

DESIGN DESIGNATION

A.A.D.T. - 2020 = 127,800
A.A.D.T. - 2040 = 155,900
D.H.V. = 8%
T = 35%
V = 60 M.P.H.
D = 55% (SB)

FUNCTIONAL CLASSIFICATION - INTERSTATE

**ADDITIONAL RIGHT-OF-WAY
WILL BE ACQUIRED
FOR THIS PROJECT**

**STORMWATER
MANAGEMENT NOTE
(FOR INFORMATION ONLY)**

PROJECT DISTURBANCE = 0.48 ACRES
PROJECT RUNOFF DIFFERENTIAL = 0 CFS
PROJECT IMPERVIOUS DIFFERENTIAL = 0 ACRES

ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORMWATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN.) DETENTION FOR ANY FUTURE DEVELOPMENT SHALL INCLUDE THESE IMPROVEMENTS AS WELL.

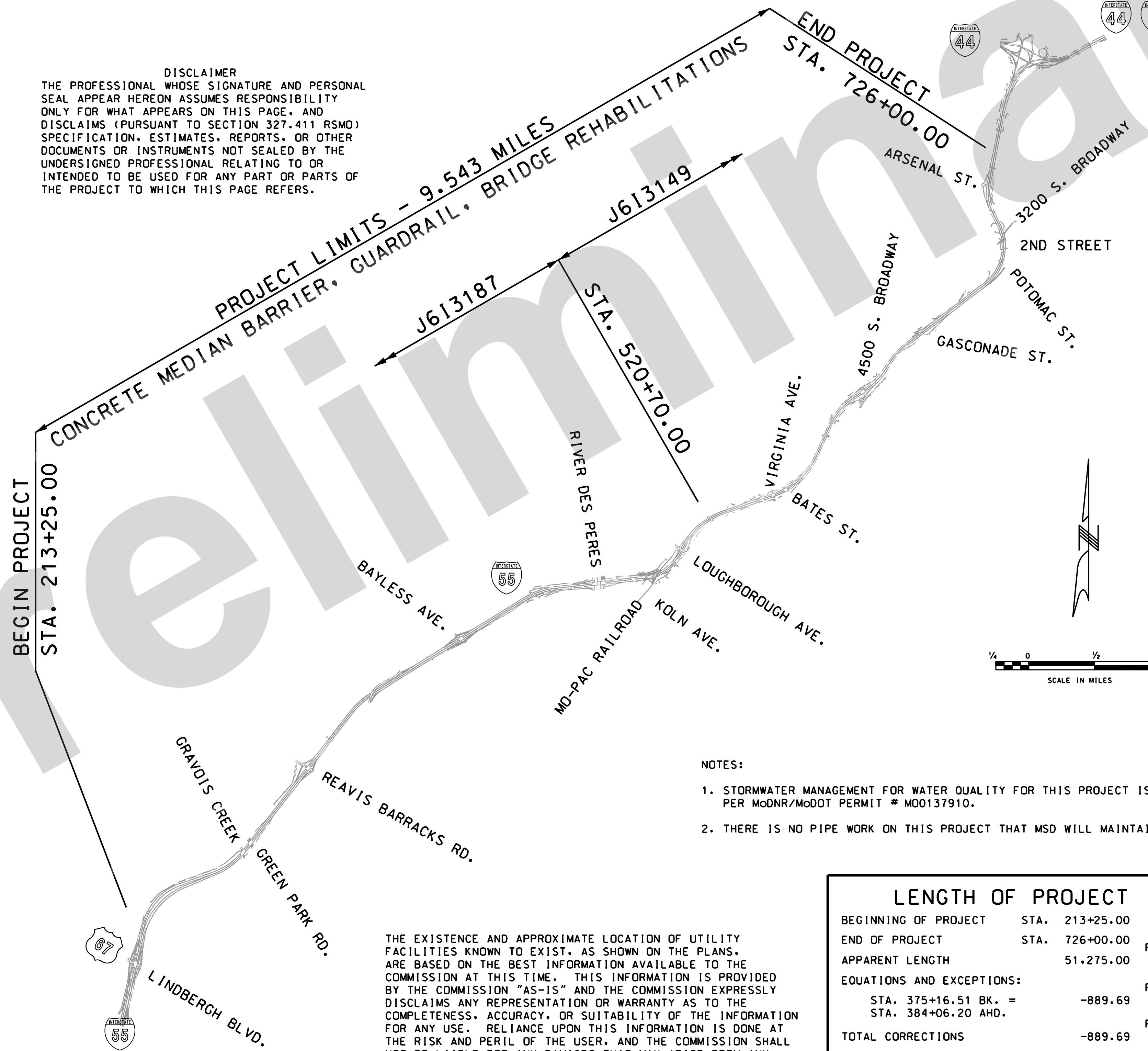
**CONVENTIONAL SYMBOLS
(USED IN PLANS)**

	EXISTING	NEW
BUILDINGS AND STRUCTURES	[Symbol]	[Symbol]
GUARD RAIL	[Symbol]	[Symbol]
GUARD CABLE	[Symbol]	[Symbol]
CONCRETE RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
STEEL RIGHT-OF-WAY MARKER	[Symbol]	[Symbol]
LOCATION SURVEY MARKER	[Symbol]	[Symbol]
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD CABLE TV	-OTV-	-OTV-
UNDERGROUND CABLE TV	-UTV-	-UTV-
OVERHEAD TELEPHONE	-OT-	-OT-
UNDERGROUND TELEPHONE	-UT-	-UT-
OVERHEAD POWER	-OE-	-OE-
UNDERGROUND POWER	-UE-	-UE-
SANITARY SEWER	-S-	-S-
STORM SEWER	-SS-	-SS-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	[Symbol]	[Symbol]
FIRE HYDRANT	[Symbol]	[Symbol]
WATER VALVE	[Symbol]	[Symbol]
WATER METER	[Symbol]	[Symbol]
DROP INLET	[Symbol]	[Symbol]
DITCH BLOCK	[Symbol]	[Symbol]
GROUND MOUNTED SIGN	[Symbol]	[Symbol]
LIGHT POLE	[Symbol]	[Symbol]
H-FRAME POWER POLE	[Symbol]	[Symbol]
TELEPHONE PEDESTAL	[Symbol]	[Symbol]
FENCE		
CHAIN LINK	[Symbol]	[Symbol]
WOVEN WIRE	[Symbol]	[Symbol]
GATE POST	[Symbol]	[Symbol]
BENCHMARK	[Symbol]	[Symbol]

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

**MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY**

ST. LOUIS COUNTY & CITY



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NOTES:

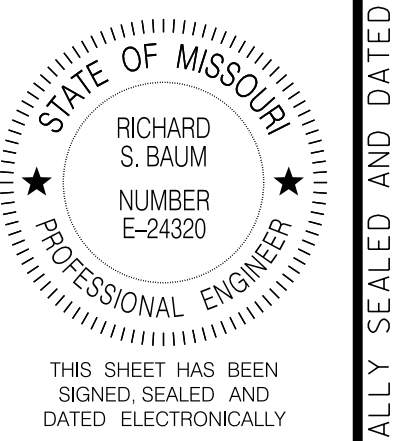
- 1. STORMWATER MANAGEMENT FOR WATER QUALITY FOR THIS PROJECT IS PER MoDNR/MoDOT PERMIT # MO0137910.
- 2. THERE IS NO PIPE WORK ON THIS PROJECT THAT MSD WILL MAINTAIN.

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 213+25.00	
END OF PROJECT	STA. 726+00.00	FEET
APPARENT LENGTH	51,275.00	
EQUATIONS AND EXCEPTIONS:		FEET
STA. 375+16.51 BK. =	-889.69	
STA. 384+06.20 AHD.		
TOTAL CORRECTIONS	-889.69	FEET
NET LENGTH OF PROJECT	50,385.31	FEET
STATE LENGTH	9.543 MILES	

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DATE PREPARED: 04-OCT-2021
ROUTE: I-55, STATE: MO, DISTRICT: SL, SHEET NO.: 1, COUNTY: STL COUNTY/CITY, JOB NO.: J613187/J613149, CONTRACT ID.

PROJECT NO., BRIDGE NO.

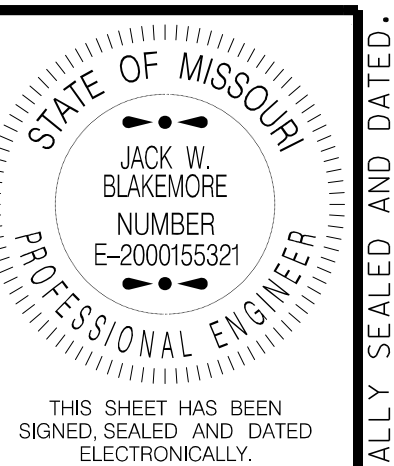
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

NOTE:
THE TYPE (NORMAL, STEPPED OR MODIFIED) OF EXISTING CONCRETE MEDIAN BARRIER HAS BEEN DETERMINED FROM AS-BUILD PLANS, AERIAL SURVEYS AND PHOTOGRAPHS AND IS SUBJECT TO CONSTRUCTION VARIATION AND ACTUAL SITE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH TYPES AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK AS DIRECTED AND APPROVED BY THE ENGINEER.

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 2

COUNTY
ST. LOUIS

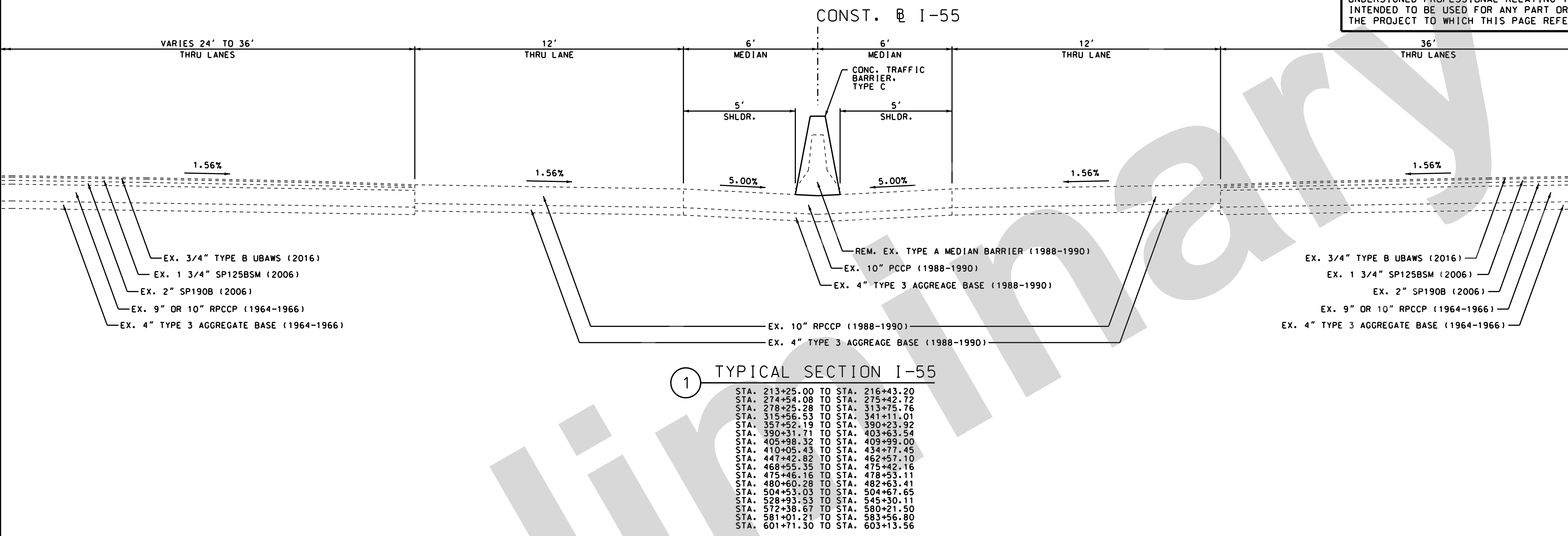
CITY
ST. LOUIS CITY

JOB NO.
J613149 J613187

CONTRACT ID.

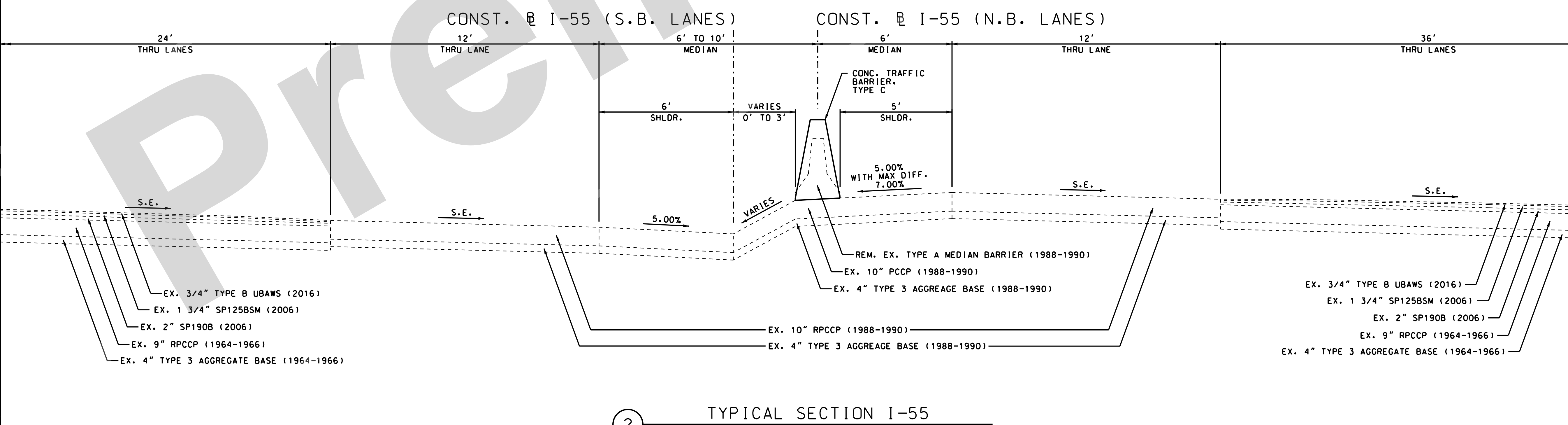
PROJECT NO.

BRIDGE NO.



1 TYPICAL SECTION I-55

STA. 213+25.00	TO STA. 216+43.20
STA. 274+54.08	TO STA. 275+42.72
STA. 278+25.28	TO STA. 313+75.76
STA. 315+56.53	TO STA. 341+11.01
STA. 357+52.19	TO STA. 390+23.92
STA. 390+31.71	TO STA. 403+63.54
STA. 405+98.32	TO STA. 409+99.00
STA. 410+05.43	TO STA. 434+77.45
STA. 447+42.82	TO STA. 462+57.10
STA. 468+55.35	TO STA. 475+42.16
STA. 475+46.16	TO STA. 478+53.11
STA. 480+60.28	TO STA. 482+63.41
STA. 504+53.03	TO STA. 504+67.65
STA. 528+93.53	TO STA. 545+30.11
STA. 572+38.67	TO STA. 580+21.50
STA. 581+01.21	TO STA. 583+56.80
STA. 601+71.30	TO STA. 603+13.56



2 TYPICAL SECTION I-55
STA. 216+43.20 TO STA. 218+00.60 (CONT. @ I-55 N.B. LANES)

DESCRIPTION	DATE	REVISION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

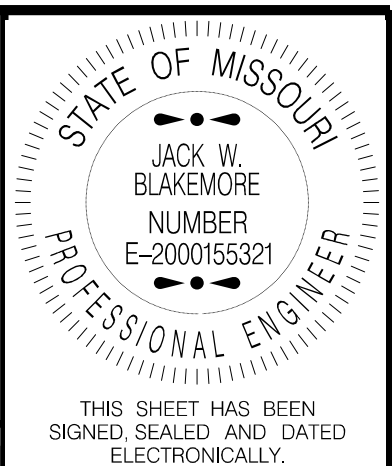
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ONE MEMORIAL DRIVE, SUITE 500
ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

ROADWAY TYPICAL SECTIONS
MEDIAN BARRIER AND GUARDRAIL
SHEET 1 OF 7

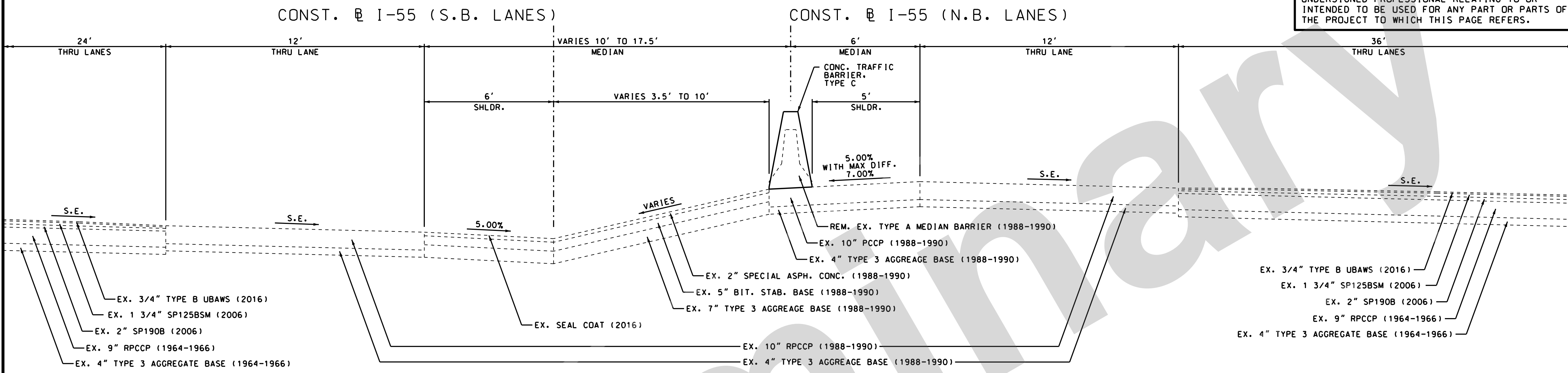
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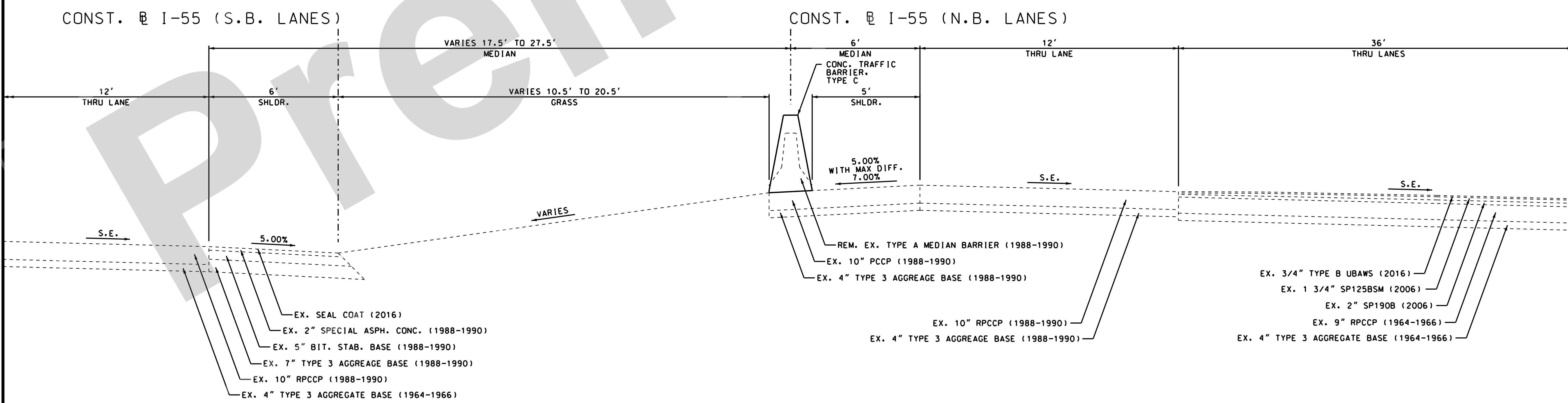
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DATE PREPARED: 05-AUG-2021
ROUTE: I-55 STATE: MO
DISTRICT: SL SHEET NO.: 2
COUNTY: ST. LOUIS
JOB NO.: J613187
CONTRACT ID.
PROJECT NO.
BRIDGE NO.



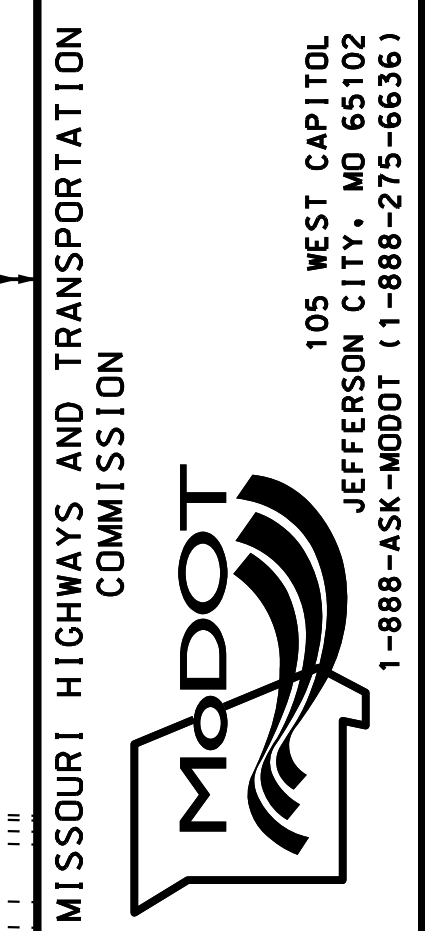
3 TYPICAL SECTION I-55
STA. 218+00.60 TO STA. 219+09.00 (CONT. @ I-55 N.B. LANES)



4 TYPICAL SECTION I-55
STA. 219+09.00 TO STA. 220+00.82 (CONT. @ I-55 N.B. LANES)

ROADWAY TYPICAL SECTIONS
MEDIAN BARRIER AND GUARDRAIL
SHEET 2 OF 7

DESCRIPTION	DATE



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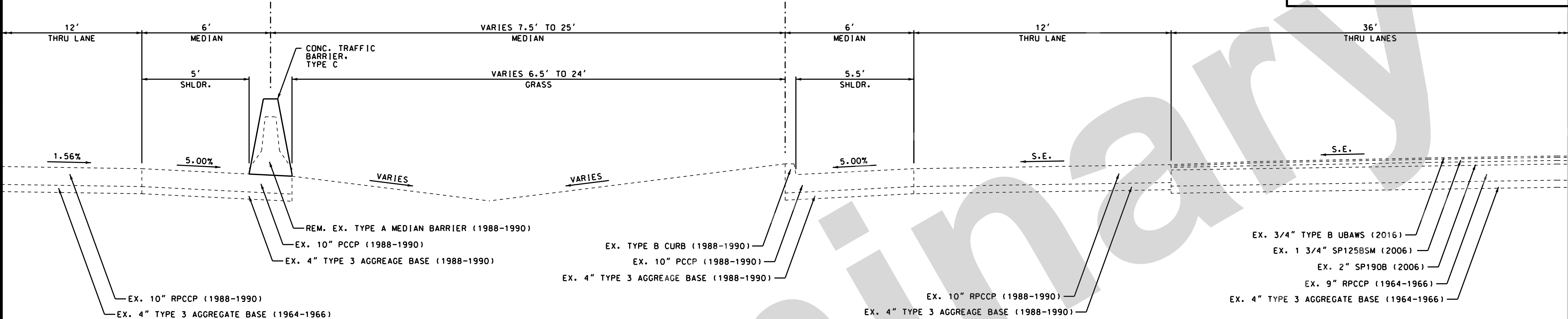
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CONST. @ I-55 (S.B. LANES)

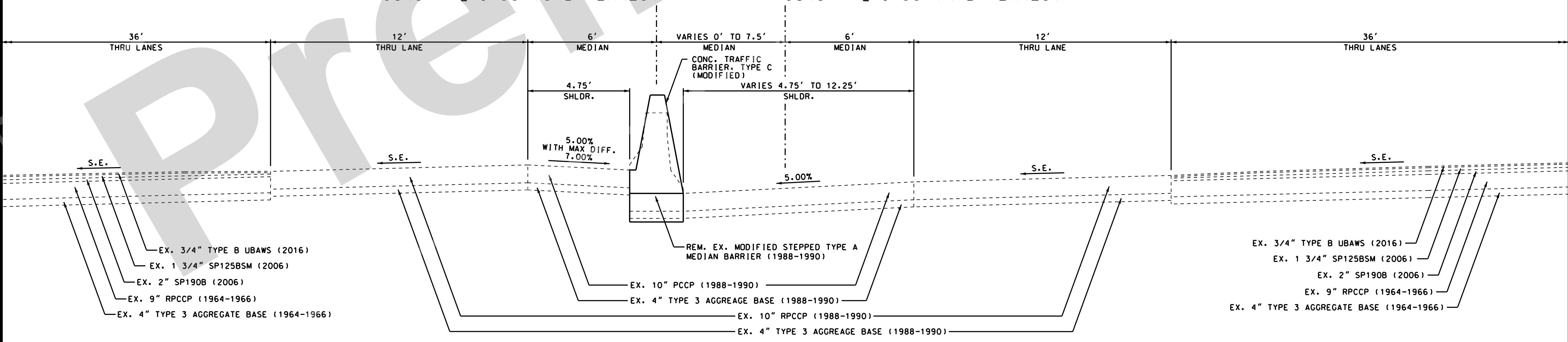
CONST. @ I-55 (N.B. LANES)



5 TYPICAL SECTION I-55
 STA. 251+80.37 TO STA. 255+47.34 (CONT. @ I-55 S.B. LANES)

CONST. @ I-55 (S.B. LANES)

CONST. @ I-55 (N.B. LANES)



6 TYPICAL SECTION I-55
 STA. 255+47.34 TO STA. 256+84.35 (CONT. @ I-55 S.B. LANES)

EX. 3/4" TYPE B UBAWS (2016)
 EX. 1 3/4" SP125B5M (2006)
 EX. 2" SP190B (2006)
 EX. 9" RPCCP (1964-1966)
 EX. 4" TYPE 3 AGGREGATE BASE (1964-1966)

DATE PREPARED: 05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	2
COUNTY	
ST. LOUIS	
JOB NO.	
J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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 REV.

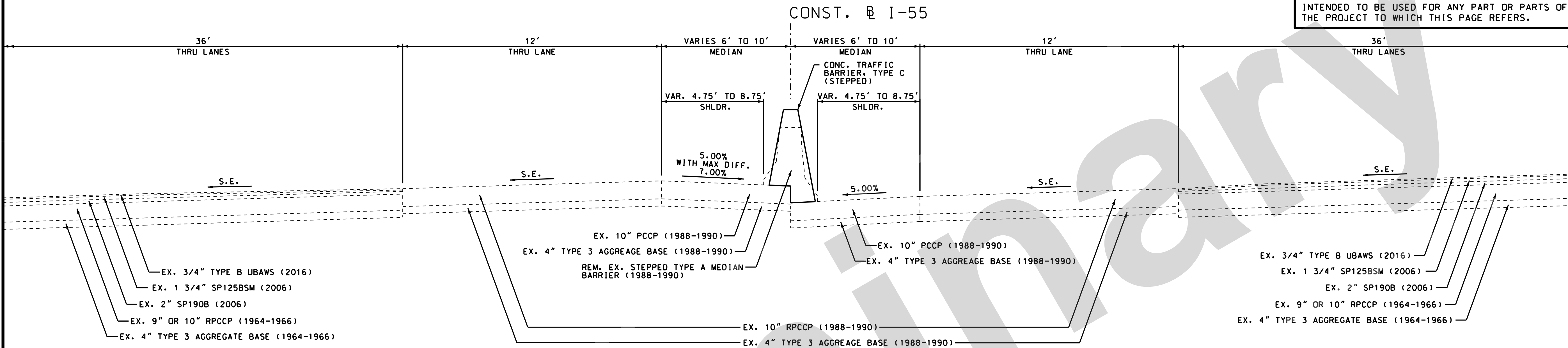
ROADWAY TYPICAL SECTIONS
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 3 OF 7

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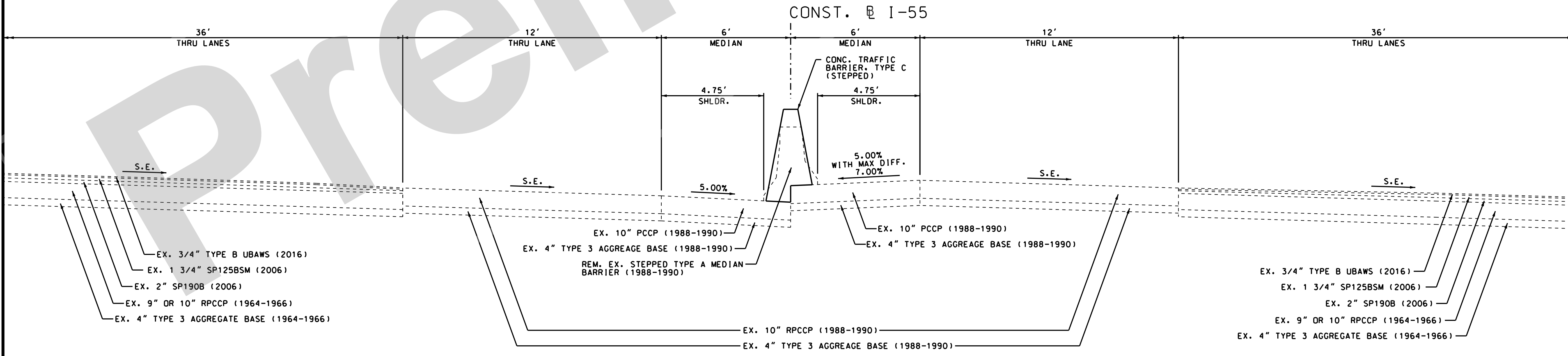


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7 TYPICAL SECTION I-55

STA. 273+88.99 TO STA. 274+32.54
 STA. 274+35.54 TO STA. 274+54.08
 STA. 482+63.41 TO STA. 483+81.05
 STA. 503+35.82 TO STA. 504+53.03
 STA. 545+30.11 TO STA. 546+71.21
 STA. 548+67.21 TO STA. 552+06.32
 STA. 554+10.70 TO STA. 572+38.67
 STA. 605+42.36 TO STA. 611+33.85



8 TYPICAL SECTION I-55

STA. 341+11.01 TO STA. 341+49.35
 STA. 355+36.00 TO STA. 357+52.19
 STA. 434+77.45 TO STA. 447+42.82
 STA. 504+67.65 TO STA. 520+31.36
 STA. 521+12.57 TO STA. 528+93.53
 STA. 583+56.80 TO STA. 601+71.30

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

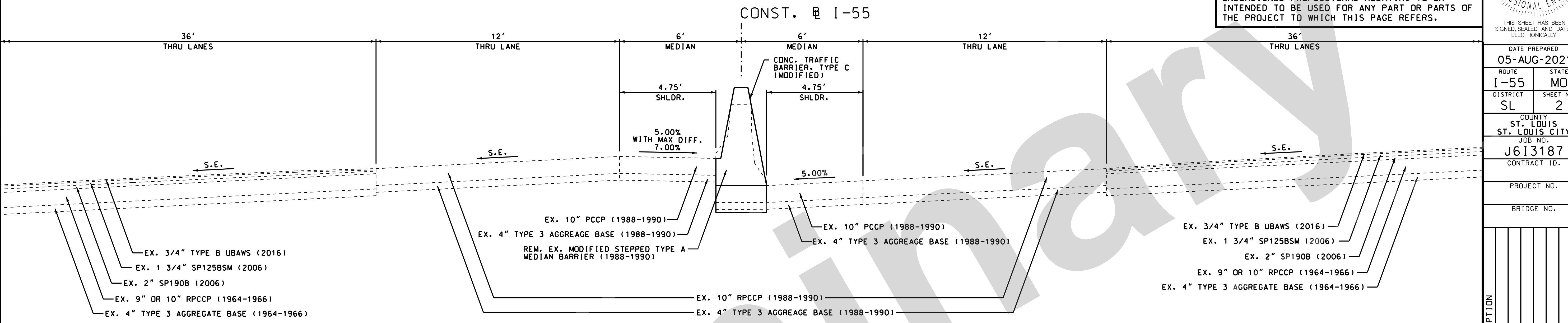
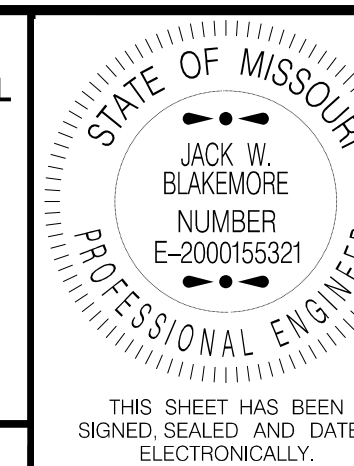
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 ENGINEERING CORPORATION - 000631

ROADWAY TYPICAL SECTIONS
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 4 OF 7

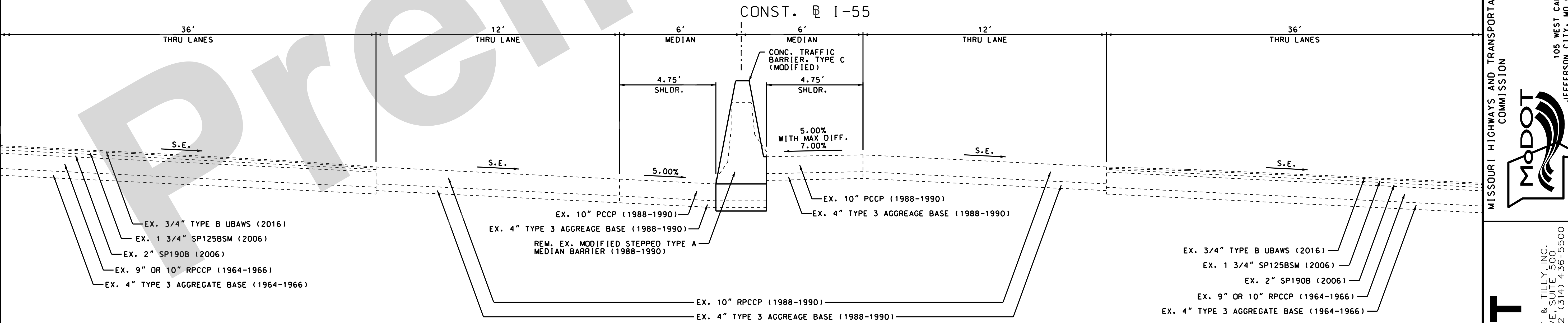
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9 TYPICAL SECTION I-55
 STA. 256+84.35 TO STA. 257+34.10
 STA. 257+38.10 TO STA. 270+34.60
 STA. 273+41.48 TO STA. 273+88.99
 STA. 490+78.88 TO STA. 503+35.82



10 TYPICAL SECTION I-55
 STA. 341+49.35 TO STA. 352+10.00

DATE PREPARED
05-AUG-2021

ROUTE
I-55

STATE
MO

DISTRICT
SL

SHEET NO.
2

COUNTY
ST. LOUIS

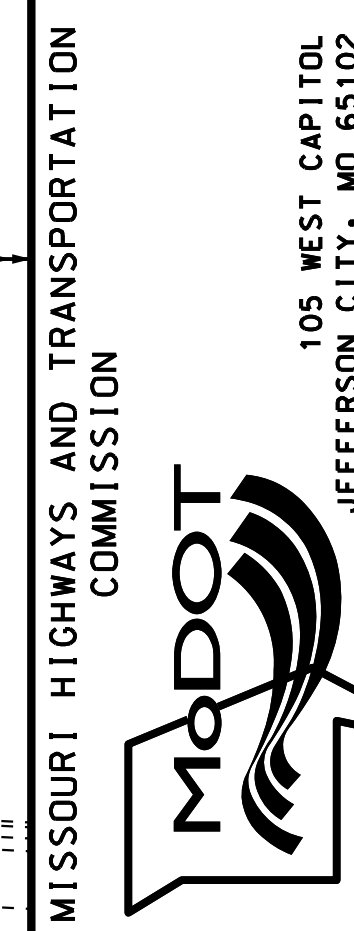
CITY
ST. LOUIS CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

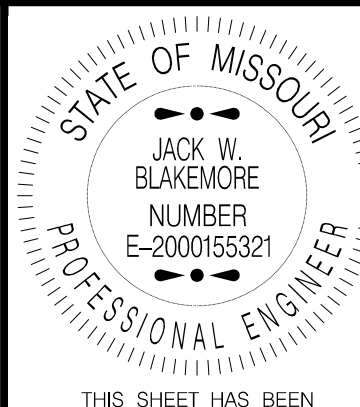


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REV.

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DATE PREPARED

05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT SL SHEET NO. 2

COUNTY

ST. LOUIS CITY

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

ENGINEERING CORPORATION - 000631

REV.

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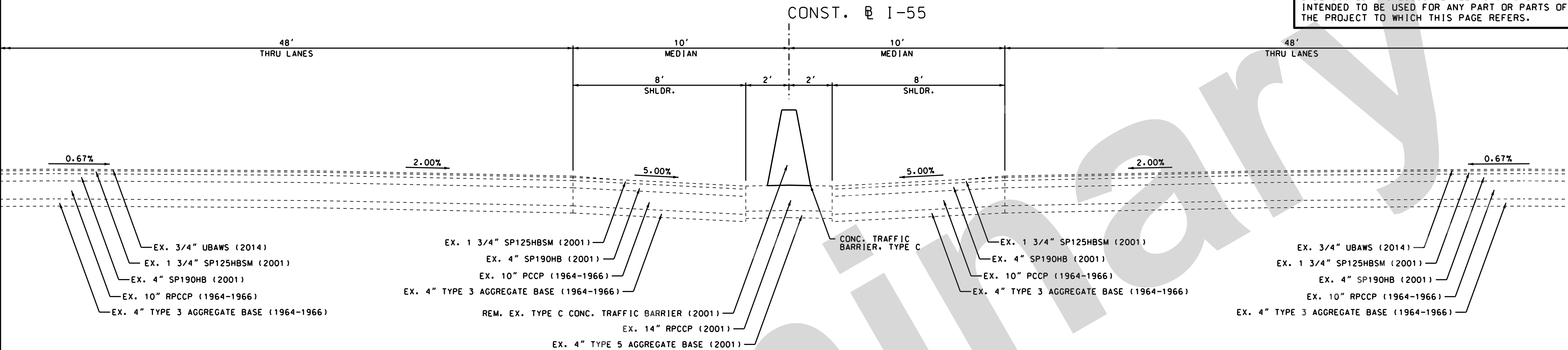
ONE MEMORIAL DRIVE, SUITE 500

ST. LOUIS, MO 63102 (314) 436-5500

ENGINEERING CORPORATION - 000631

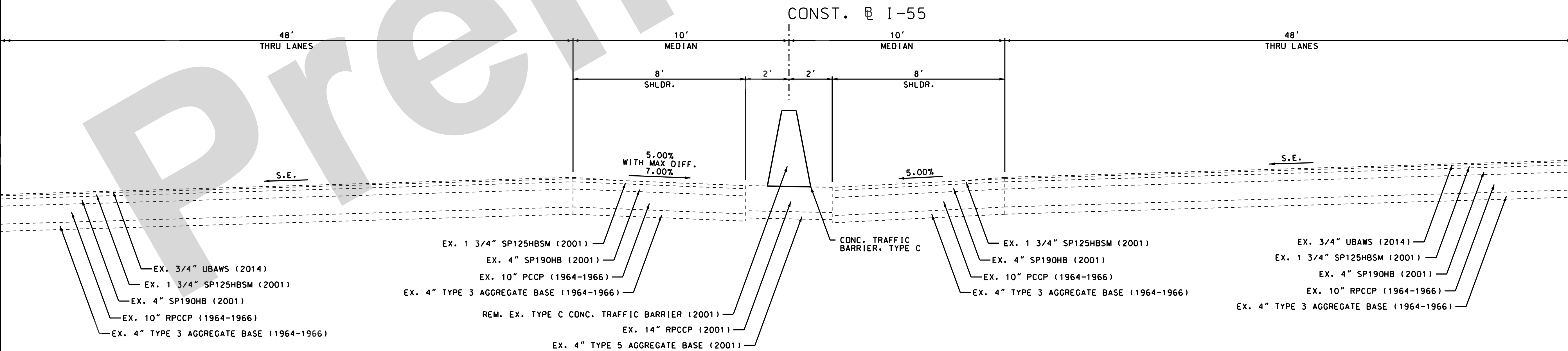
REV.

05-AUG-2021



11 TYPICAL SECTION I-55

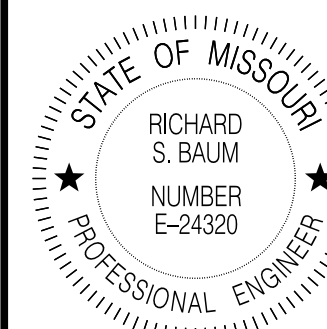
STA. 636+13.97 TO STA. 636+28.61
 STA. 638+34.06 TO STA. 638+50.35
 STA. 664+35.00 TO STA. 669+00.00
 STA. 721+10.00 TO STA. 726+00.00



12 TYPICAL SECTION I-55

STA. 669+00.00 TO STA. 669+40.00

ROADWAY TYPICAL SECTIONS
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 6 OF 7



THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 2

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

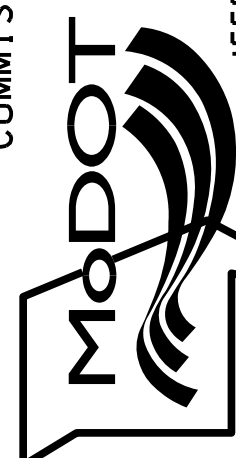
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

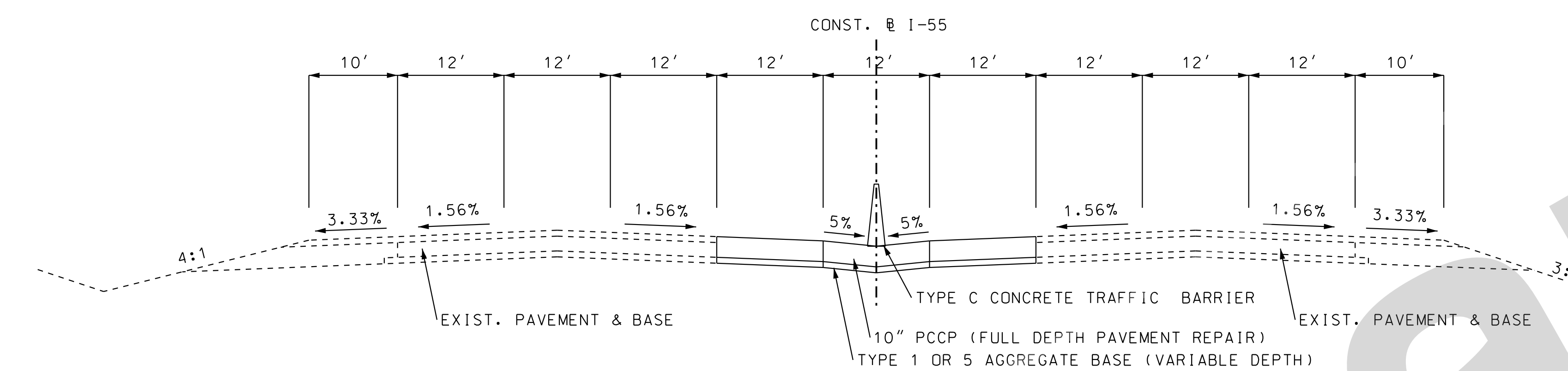
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

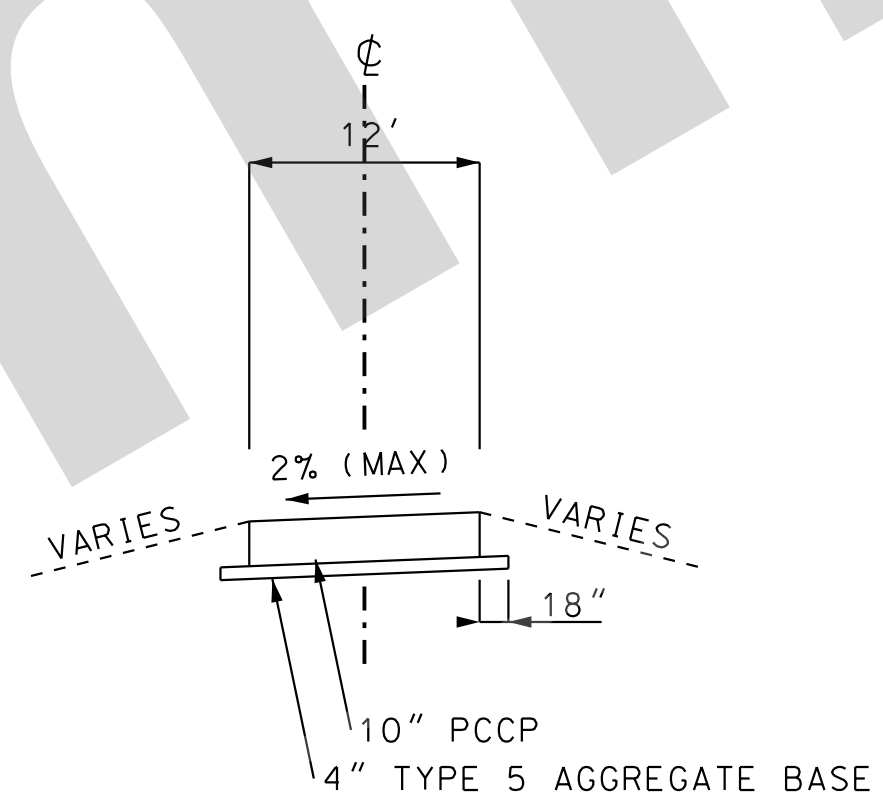
Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



- NOTES:
1. SEE SPECIAL SHEET 14 & 15 FOR LOCATION OF PAVEMENT REPLACEMENT
2. SAWCUT & SUBGRADE COMPACTION SHALL BE CONSIDERED INCIDENTAL

TYPICAL SECTION ON TANGENT
TYPICAL SECTION I-55

STA. 499+15 TO STA. 499+75
STA. 502+75 TO STA. 503+15
STA. 503+75 TO STA. 506+25
STA. 602+15 TO STA. 603+15



TYPICAL SECTION
CARONDELET CONNECTOR TRAIL

- NOTES:
1. SAWCUT & SUBGRADE COMPACTION SHALL BE CONSIDERED INCIDENTAL
2. TRAIL TO MATCH EXISTING PROFILE GRADE

DISCLAIMER

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MOBILIZATION		
TOTAL	1	LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING		
TOTAL	1	LUMP SUM

SEEDING - COOL SEASON MIXTURES		
TOTAL	1.0	ACRE

INSPECTION OF 54" RCP SANITARY SEWER		
TOTAL	1	LUMP SUM

TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING		
TOTAL	1	LUMP SUM

MAINTAIN &OR REINSTALL EXISTING MODOT LIGHTING		
TOTAL	1	LUMP SUM

TEMPORARY PAVEMENT MARKING PAINT		
TOTAL	1	LUMP SUM

RAILROAD PLAN SUBMITTAL		
TOTAL	1	LUMP SUM

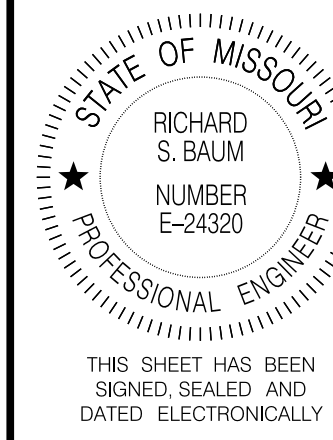
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MODIFIED LINEAR GRADING					
SHEET	STATION	STATION	LOCATION	LENGTH	DESCRIPTION
				STA	
183	53+44.78	55+54.72	STAGE 3 CROSSOVER	2.1	
219	51+16.97	53+97.43	STAGE 4 CROSSOVER	2.8	INCLUDES REMOVAL OF STAGE 3 CROSSOVER
219	51+16.97	53+97.43	STAGE 4 CROSSOVER	2.8	REMOVAL OF STAGE 4 CROSSOVER
TOTAL				7.7	

ROCK BASE (12 IN.)						
SHEET	STATION	STATION	LOCATION	FURNISHING	PLACING	COMMENT
				ROCK BASE	ROCK BASE	
				SY	SY	
53			I-55, LT. & RT.	725	725	SNOOPER ACCESS UNDER SPAN 5
TOTAL				725	725	

TRAIL							
SHEET	STATION	STATION	LOCATION	CLASS A	CONCRETE	TYPE 5 AGGR.	COMMENT
				EXCAVATION	PAVEMENT	BASE	
				CY	SY	SY	
52, 53	480+96.00	489+98.00	I-55, LT.	400	1150.7	1438	CARONDELET CONNECTOR
SUBTOTAL				400	1150.7	1438	
TOTAL				400	1150.7	*	

* SEE PAVEMENT QUANTITIES FOR FINAL PAY TOTALS (SHEET 4 OF 16)



DATE PREPARED
18-AUG-2021

ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 3

COUNTY
STL COUNTY/CITY
JOB NO.
J613187
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

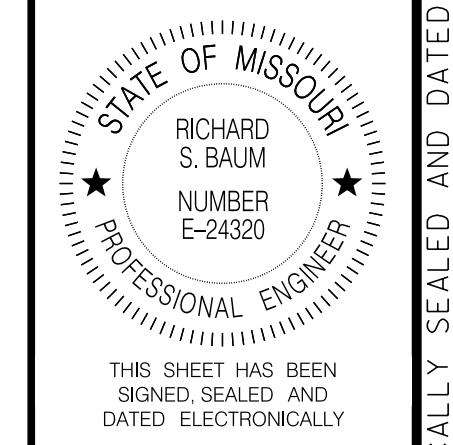
Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
SHEET 1 OF 16

REMOVAL OF IMPROVEMENTS				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
5	213+25	220+01	I-55, CL & N.B. BL	CONCRETE TRAFFIC BARRIER, 676 LF
8	251+80	257+34	I-55, S.B. BL	CONCRETE TRAFFIC BARRIER, 554 LF
8	257+38	264+00	I-55, CL & S.B. BL	CONCRETE TRAFFIC BARRIER, 662 LF
8	251+78	254+31	I-55, RT.	GUARDRAIL, 253 LF
9	264+00	270+55	I-55, CL	CONCRETE TRAFFIC BARRIER, 655 LF
9	264+11	266+22	I-55, RT.	GUARDRAIL, 216 LF
9	266+02	270+82	I-55, LT.	GUARDRAIL, 470 LF
9	266+95	270+02	I-55, RT.	GUARDRAIL, 314 LF
9	270+02	270+11	I-55, RT.	CONCRETE TRAFFIC BARRIER, 9 LF
9	270+82	270+92	I-55, LT.	CONCRETE TRAFFIC BARRIER, 10 LF
9	272+67	272+77	I-55, RT.	CONCRETE TRAFFIC BARRIER, 10 LF
9	272+77	274+50	I-55, RT.	GUARDRAIL, 173 LF
9	273+21	274+50	I-55, CL	CONCRETE TRAFFIC BARRIER (INCL. STEEL PLATES), 129 LF
9	273+65	273+73	I-55, LT.	CONCRETE TRAFFIC BARRIER, 8 LF
9	273+73	274+50	I-55, LT.	GUARDRAIL, 77 LF
10	274+50	275+63	I-55, CL	CONCRETE TRAFFIC BARRIER, 113 LF
10	274+50	275+19	I-55, RT.	GUARDRAIL, 69 LF
10	274+50	275+89	I-55, LT.	GUARDRAIL, 139 LF
10	275+19	275+27	I-55, RT.	CONCRETE TRAFFIC BARRIER, 8 LF
10	275+89	275+98	I-55, LT.	CONCRETE TRAFFIC BARRIER, 9 LF
10	277+70	277+78	I-55, RT.	CONCRETE TRAFFIC BARRIER, 8 LF
10	277+78	280+62	I-55, RT.	GUARDRAIL, 284 LF
10	278+05	288+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 995 LF
10	278+39	278+47	I-55, LT.	CONCRETE TRAFFIC BARRIER, 8 LF
10	278+47	285+36	I-55, LT.	GUARDRAIL, 689 LF
11	288+00	302+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF
12	302+00	313+76	I-55, CL	CONCRETE TRAFFIC BARRIER, 1176 LF
12	309+07		I-55, CL	CONCRETE MEDIAN STRIP, 5 SY
12	315+57	316+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 43 LF
13	316+00	330+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF
13	321+37		I-55, CL	CONCRETE MEDIAN STRIP, 5 SY
13	328+98		I-55, RT.	LIGHT, 1 EA
13	329+15		I-55, LT.	LIGHT, 1 EA
14	330+00	344+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF
14	339+52		I-55, CL	CONCRETE MEDIAN STRIP, 4 SY
15	344+00	352+10	I-55, CL	CONCRETE TRAFFIC BARRIER, 810 LF
15	355+36	358+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 264 LF
16	358+00	372+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF
17	372+00	390+24	I-55, CL	CONCRETE TRAFFIC BARRIER, 934 LF
17	373+04		I-55, CL	CONCRETE MEDIAN STRIP, 5 SY
17	390+28		I-55, CL	CONCRETE MEDIAN STRIP, 6 SY
17	390+32	395+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 468 LF
18	395+00	403+54	I-55, CL	CONCRETE TRAFFIC BARRIER, 884 LF
18	398+02		I-55, CL	CONCRETE MEDIAN STRIP, 3 SY
18	401+63	404+03	I-55, RT.	GUARDRAIL, 241 LF
18	403+50	403+57	I-55, LT.	CONCRETE TRAFFIC BARRIER, 7 LF
18	404+03	404+09	I-55 RT.	CONCRETE TRAFFIC BARRIER, 7 LF
18	405+53	405+59	I-55, LT.	CONCRETE TRAFFIC BARRIER, 7 LF
18	405+59	408+20	I-55, LT.	GUARDRAIL, 263 LF
18	405+78	409+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 322 LF
18	406+05	406+10	I-55, RT.	CONCRETE TRAFFIC BARRIER, 6 LF
18	406+10	408+43	I-55, RT.	GUARDRAIL, 234 LF
19	409+00	409+99	I-55, CL	CONCRETE TRAFFIC BARRIER, 99 LF
19	410+02		I-55, CL	CONCRETE MEDIAN STRIP, 5 SY
19	410+05	423+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1295 LF
20	423+00	437+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF
20	431+02		I-55, CL	CONCRETE MEDIAN STRIP, 6 SY
21	437+00	451+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF

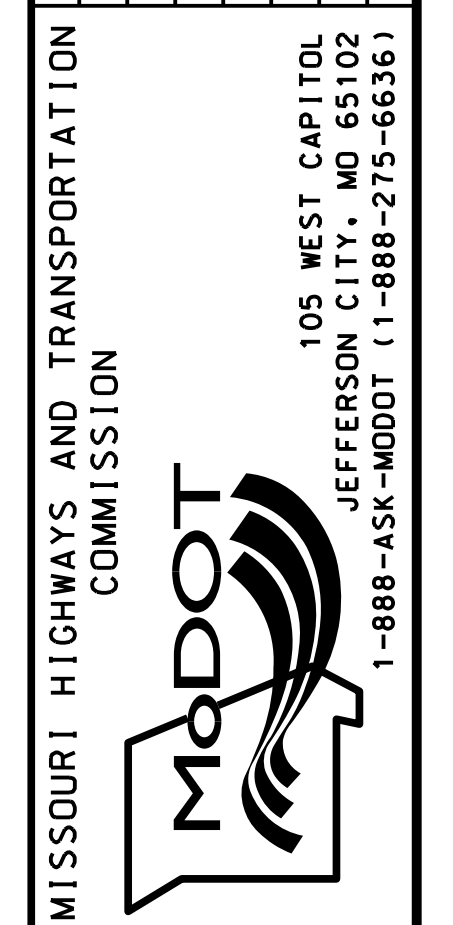
REMOVAL OF IMPROVEMENTS (CONT.)				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
21	445+23		I-55, CL	CONCRETE MEDIAN STRIP, 4 SY
22	451+00	461+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1000 LF
22	453+95		I-55, CL	CONCRETE MEDIAN STRIP, 6 SY
22	459+59	461+00	I-55, RT.	GUARDRAIL, 141 LF
23	461+00	462+84	I-55, CL	CONCRETE TRAFFIC BARRIER, 184 LF
23	461+00	462+71	I-55, RT.	GUARDRAIL, 171 LF
23	461+41	462+84	I-55, LT.	GUARDRAIL, 143 LF
23	462+71	462+77	I-55, RT.	CONCRETE TRAFFIC BARRIER, 6 LF
23	462+84	462+90	I-55, LT.	CONCRETE TRAFFIC BARRIER, 7 LF
23	483+33	468+41	I-55, LT.	CONCRETE TRAFFIC BARRIER, 8 LF
23	468+34	468+41	I-55, RT.	CONCRETE TRAFFIC BARRIER, 7 LF
23	468+41	471+65	I-55, LT.	GUARDRAIL, 324 LF
23	468+41	470+36	I-55, RT.	GUARDRAIL, 196 LF
23	468+35	475+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 665 LF
23	468+72	475+00	I-55, LT.	GUARDRAIL (ALONG RIGHT SIDE RAMP 1), 636 LF
23	470+94	475+00	I-55, RT.	GUARDRAIL (ALONG RIGHT SIDE RAMP 2), 410 LF
23	474+94		I-55, CL	CONCRETE MEDIAN STRIP, 6 SY
24	475+00	478+73	I-55, CL	CONCRETE TRAFFIC BARRIER (INCL. STEEL PLATES), 373 LF
24	475+00	477+86	I-55, LT.	GUARDRAIL (ALONG RIGHT SIDE RAMP 1), 286 LF
24	475+00	479+39	I-55, RT.	GUARDRAIL (ALONG RIGHT SIDE RAMP 2), 440 LF
24	477+86	477+94	I-55, LT.	CONCRETE TRAFFIC BARRIER, 8 LF
24	479+39	479+49	I-55, RT.	CONCRETE TRAFFIC BARRIER, 10 LF
24	479+64	479+73	I-55, LT.	CONCRETE TRAFFIC BARRIER, 9 LF
24	479+73	484+74	I-55, LT.	GUARDRAIL, 496 LF
24	480+40	484+01	I-55, CL	CONCRETE TRAFFIC BARRIER, 361 LF
24	481+20	481+27	I-55, RT.	CONCRETE TRAFFIC BARRIER, 7 LF
24	481+27	483+14	I-55, RT.	GUARDRAIL, 187 LF
24	483+14	483+28	I-55, RT.	CONCRETE TRAFFIC BARRIER, 14 LF
24	484+74	484+84	I-55, LT.	CONCRETE TRAFFIC BARRIER, 10 LF
25	489+82	489+92	I-55, RT.	CONCRETE TRAFFIC BARRIER, 11 LF
25	489+92	491+54	I-55, RT.	GUARDRAIL (ALONG RIGHT SIDE RAMP 3), 170 LF
25	490+59	502+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1141 LF
25	490+99		I-55, CL	CONCRETE MEDIAN STRIP, 3 SY
25	491+41	491+70	I-55, LT.	CONCRETE TRAFFIC BARRIER, 29 LF
25	491+70	496+61	I-55, LT.	GUARDRAIL, 470 LF
26	502+00	516+00	I-55, CL	CONCRETE TRAFFIC BARRIER, 1400 LF
26	509+33		I-55, CL	CONCRETE MEDIAN STRIP, 6 SY
27	516+00	520+31	I-55, CL	CONCRETE TRAFFIC BARRIER, 431 LF
27	520+11		I-55, CL	CONCRETE MEDIAN STRIP, 3 SY
48	269+81	270+35	I-55, RT.	APPROACH PAVEMENT, 243 SY
48	270+20	270+35	I-55, LT.	APPROACH PAVEMENT, 249 SY
48	270+35	270+55	I-55, RT.	APPROACH SLAB, 142 SY
48	270+35	270+55	I-55, RT.	APPROACH SLAB, 142 SY
48	273+21	273+41	I-55, LT.	APPROACH SLAB, 142 SY
48	273+21	273+41	I-55, RT.	APPROACH SLAB, 142 SY
48	273+41	274+04	I-55, LT.	APPROACH PAVEMENT, 276 SY
48	273+41	273+56	I-55, RT.	APPROACH PAVEMENT, 278 SY
48			I-55, LT & RT.	CONCRETE SLOPE PROTECTION, 200 SF
48			I-55, LT & RT.	CONCRETE SLOPE PROTECTION, 500 SF
49	274+93	275+43	I-55, RT.	APPROACH PAVEMENT, 229 SY
49	275+20		I-55, RT.	CONCRETE GUTTER, 25 LF
49	275+28	275+43	I-55, LT.	APPROACH PAVEMENT, 231 SY
49	275+43	275+63	I-55, LT.	APPROACH SLAB, 142 SY
49	275+43	275+63	I-55, RT.	APPROACH SLAB, 142 SY
49	278+05	278+25	I-55, LT.	APPROACH SLAB, 142 SY
49	278+05	278+25	I-55, RT.	APPROACH SLAB, 142 SY
49	278+25	278+75	I-55, LT.	APPROACH PAVEMENT, 229 SY
49	278+25	278+40	I-55, RT.	APPROACH PAVEMENT, 231 SY

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DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **3**
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

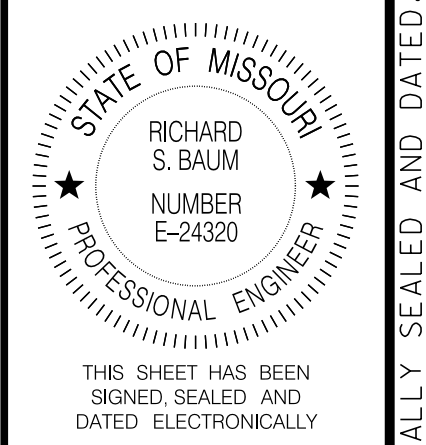
BRIDGE NO.	DESCRIPTION	DATE



Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
SHEET 2 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.



DATE PREPARED
06-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 3

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

BRIDGE APPROACH

SHEET	STATION	STATION	LOCATION	CONCRETE APPROACH PAVEMENT	SUBGRADE COMPACTION (PVM T REPAIR)	REMARKS
				SY	SY	
48	269+81.01	270+34.60	I-55, RT.	242.9	24	BRIDGE #A0607 (GRAVOIS CREEK)
48	270+19.60	270+34.60	I-55, LT.	248.8	25	BRIDGE #A0607 (GRAVOIS CREEK)
48	273+41.48	274+04.48	I-55, LT.	276.2	28	BRIDGE #A0607 (GRAVOIS CREEK)
48	273+41.48	273+56.48	I-55, RT.	278.4	28	BRIDGE #A0607 (GRAVOIS CREEK)
49	274+93.00	275+42.72	I-55, RT.	229.1	23	BRIDGE #A0591 (GREEN PARK RD.)
49	275+27.72	275+42.72	I-55, LT.	231.4	23	BRIDGE #A0591 (GREEN PARK RD.)
49	278+25.25	278+75.01	I-55, LT.	229.1	23	BRIDGE #A0591 (GREEN PARK RD.)
49	278+25.25	278+40.28	I-55, RT.	231.4	23	BRIDGE #A0591 (GREEN PARK RD.)
50	403+22.39	403+63.12	I-55, LT.	197.3	20	BRIDGE #A0532 (BAYLESS AVE.)
50	403+48.12	403+63.12	I-55, RT.	199.2	20	BRIDGE #A0532 (BAYLESS AVE.)
50	405+98.74	406+13.74	I-55, LT.	199.2	20	BRIDGE #A0532 (BAYLESS AVE.)
50	405+98.74	406+39.70	I-55, RT.	197.3	20	BRIDGE #A0532 (BAYLESS AVE.)
51	462+42.10	462+57.10	I-55, LT.	107.6	11	BRIDGE #A1057 (RIVER DES PERES)
51	462+42.10	462+57.10	I-55, RT.	107.6	11	BRIDGE #A1057 (RIVER DES PERES)
51	468+55.35	468+70.35	I-55, LT.	107.6	11	BRIDGE #A1057 (RIVER DES PERES)
51	468+55.35	468+70.35	I-55, RT.	107.6	11	BRIDGE #A1057 (RIVER DES PERES)
52	477+59.63	478+51.98	I-55, LT.	428.1	43	BRIDGE #A1075 (KOELN AVE.)
52	478+36.98	478+51.98	I-55, RT.	436.7	44	BRIDGE #A1075 (KOELN AVE.)
52	480+61.40	480+76.40	I-55, LT.	436.7	44	BRIDGE #A1075 (KOELN AVE.)
52	480+61.40	480+53.75	I-55, RT.	428.1	43	BRIDGE #A1075 (KOELN AVE.)
53	482+91.36	483+81.05	I-55, RT.	416.8	42	BRIDGE #A1276 (MO-PAC RAILROAD)
53	483+65.94	483+81.05	I-55, LT.	435.9	44	BRIDGE #A1076 (MO-PAC RAILROAD)
53	490+78.88	491+80.33	I-55, LT.	465.9	47	BRIDGE #A1276 (MO-PAC RAILROAD)
53	490+78.88	490+93.93	I-55, RT.	443.9	44	BRIDGE #A1076 (MO-PAC RAILROAD)
TOTAL				6682.8	672	

NOTE: USED 10% OF CONCRETE APPROACH PAVEMENT AREA FOR SUBGRADE COMPACTION.

CURBS & GUTTERS

SHEET	STATION	STATION	LOCATION	CONCRETE GUTTER TYPE A	CONCRETE CURB (4") TYPE S	CONCRETE CURB UNDER GUARDRAIL	REMARKS
				LF	LF	LF	
23	461+75.10	462+42.10	I-55, RT.			67	4" CURB HEIGHT
23	462+04.10	462+42.10	I-55, LT.			38	4" CURB HEIGHT
23	468+70.35	469+15.34	I-55, RT.			45	4" CURB HEIGHT
23	468+70.35	469+26.35	I-55, LT.			56	4" CURB HEIGHT
24	477+37.63	477+59.63	I-55, LT.			22	4" CURB HEIGHT
24	478+27.02	478+36.98	I-55, RT.			10	4" CURB HEIGHT
24	480+76.40	480+86.38	I-55, LT.			10	4" CURB HEIGHT
24	481+53.75	481+74.74	I-55, RT.			21	4" CURB HEIGHT
24	482+66.81	482+91.81	I-55, RT.			25	4" CURB HEIGHT
24	483+54.87	483+64.63	I-55, LT.			10	4" CURB HEIGHT
25	490+94.15	491+03.49	I-55, RT.			10	4" CURB HEIGHT
25	491+79.83	492+13.17	I-55, LT.			32	4" CURB HEIGHT
25	495+96.64	497+21.97	I-55, LT.			120	4" CURB HEIGHT
49	275+20		I-55, RT.	25			
50	403+85		I-55, RT.	5			
50	405+78		I-55, LT.	5			
50	406+33		I-55, RT.	5			
63	251+02	254+62	I-55 N.B., RT.		360		
TOTAL				40	360	466	

PAVEMENT REPAIR

SHEET	STATION	STATION	LOCATION	CONCRETE MATERIAL FOR FULL DEPTH PVM T REPLACEMENT	TYPE 1 OR 5 AGGR. BASE (VAR. THICK) (PVM T. REPAIR)	DOWEL BARS	DOWEL BARS W/ BASKETS	TIE BARS	DESCRIPTION
				SY	SY	EA	EA	EA	
61	499+15	499+75	I-55, LT. & RT.	80.0	80				PAVEMENT REPLACEMENT AT LOUGHBOROUGH
61	502+75	503+15	I-55, LT. & RT.	160.0	160	44	44	30	PAVEMENT REPLACEMENT AT LOUGHBOROUGH
61	503+75	506+25	I-55, LT. & RT.	1000.0	1000	44	352	198	PAVEMENT REPLACEMENT AT LOUGHBOROUGH
63	251+14.94	252+89.94	I-55, LT.	350.0	379	22	121	69	REPLACE CONCRETE PAVEMENT & SHOULDER
63	253+40.93	255+15.93	I-55, LT.	350.0	379	22	121	69	REPLACE CONCRETE PAVEMENT & SHOULDER
TOTAL				1940.0	1998	132	638	366	

* NOTE: SAWCUT & SUBGRADE COMPACTION SHALL BE CONSIDERED INCIDENTAL

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EROSION CONTROL

SHEET	STATION	STATION	LOCATION	SILT FENCE	SEDIMENT REMOVAL	REMARKS
				LF	CY	
48	270+00	271+81	I-55, LT. & RT.	495	5	UNDER BRIDGE ALONG GRAVOIS CREEK
48	271+51	273+46	I-55, LT. & RT.	547	6	UNDER BRIDGE ALONG GRAVOIS CREEK
52, 53	480+95	489+95	I-55, LT.	863	9	
53	485+39	487+38	I-55, RT.	248	3	
53	488+46	489+11	I-55, RT.	109	1	
53	490+54	491+74	I-55, LT.	167	2	
TOTAL				2429	26	

CHAIN-LINK FENCE (60 IN.)

SHEET	STATION	STATION	LOCATION	LF
52			I-55, LT. & RT.	200
53			I-55, LT. & RT.	600
TOTAL				800

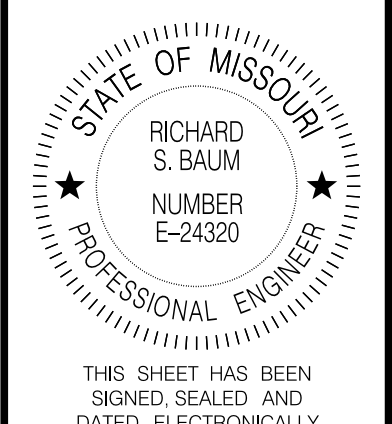
PULL BOX REPLACEMENT

SHEET	STATION	LOCATION	EACH
50	405+65	I-55, LT.	1
TOTAL			1

SUMMARY OF QUANTITIES
SHEET 5 OF 16

SLOPE PROTECTION MAINTENANCE

SHEET	STATION	STATION	LOCATION	CRUSHED STONE (B)	PCCP JOINT/ CRACK SEALING	ROCK BLANKET (TYPE 2)		SLOPE PROTECTION	SLAB JACKING MATERIAL CEMENTITIOUS GROUT	REMARKS
				TONS	LF	FURNISHING CY	PLACING CY	SY	TONS	
48			I-55, LT. & RT.					22.2		APPROX. 200 SF
48			I-55, LT. & RT.		1000					
48			I-55, LT. & RT.					55.6		APPROX. 500 SF
48			I-55, LT. & RT.	77.0						APPROX. 55 CY (ESTIMATED AT 1.4 T/CY)
48			I-55, LT. & RT.			800	800			
48			I-55, LT. & RT.		1000				2.0	APPROX. 1 CY (ESTIMATED AT 2T/CY)
49			I-55, LT. & RT.					83.3		APPROX. 750 SF
49			I-55, LT. & RT.	119.0						APPROX. 85 CY (ESTIMATED AT 1.4 T/CY)
49			I-55, LT. & RT.		1250					
49			I-55, LT. & RT.		1250					
50			I-55, LT. & RT.					33.3		APPROX. 300 SF
50			I-55, LT. & RT.					11.1		APPROX. 100 SF
50			I-55, LT. & RT.		900					
50			I-55, LT. & RT.		900					
50			I-55, LT. & RT.					22.2		APPROX. 200 SF
50			I-55, LT. & RT.	35.0						APPROX. 25 CY (ESTIMATED AT 1.4 T/CY)
50			I-55, RT.	1.4						FILL VOIDS AT PULL BOX. APPROX. 1 CY (ESTIMATED AT 1.4 T/CY)
51			I-55, LT. & RT.		2000					
51			I-55, LT. & RT.		2000					
51			I-55, LT. & RT.					3.7		APPROX. 50 SF (ESTIMATED AT 2T/CY)(ASSUME 1' DEPTH)
51			I-55, LT. & RT.					25.9		APPROX. 350 SF (ESTIMATED AT 2T/CY)(ASSUME 1' DEPTH)
52			I-55, LT. & RT.					22.2		APPROX. 200 SF
52			I-55, LT. & RT.		1000					
53			I-55, LT. & RT.					22.2		APPROX. 200 SF
53			I-55, LT. & RT.					33.3		APPROX. 300 SF
53			I-55, LT. & RT.		2000					
53			I-55, LT. & RT.		1500					
53			I-55, LT. & RT.			600	600			
53			I-55, LT. & RT.			600	600			
53			I-55, LT. & RT.			100	100			PLACE UNDER SLAB DRAINS
			TOTAL	232.4	14,800	2100	2100	305.4	31.6	



DATE PREPARED
29-SEP-2021

ROUTE **I-55** STATE **MO**

DISTRICT **SL** SHEET NO. **3**

COUNTY
STL COUNTY/CITY

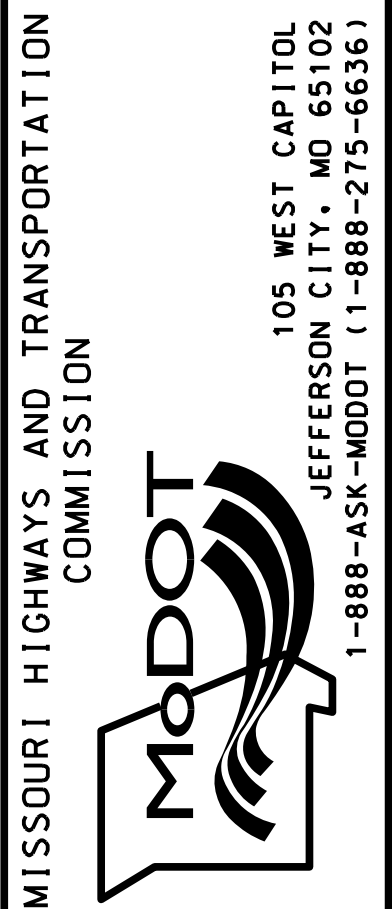
JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
 SHEET 6 OF 16

DISCLAIMER
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Preliminary

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

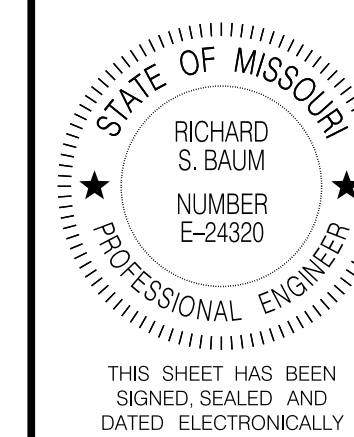
COLDMILLING QUANTITIES

SHEET	STAGE	STATION	STATION	LOCATION	COLDMILLING BIT. PVMT. FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	COLDMILLING BIT. PVMT. FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK)	COLDMILLING CONC. PVMT. FOR REMOVAL OF SURFACE	MODIFIED COLDMILLING (DEPTH TRANSITION)	DESCRIPTION
					SY	SY	SY	SY	
63	3	253+41	255+16	I-55 RT.			350	467	CROSSOVER STAGE 3 PROFILE TIE IN
63	4	251+15	252+90	I-55 RT.			350	467	CROSSOVER STAGE 4 PROFILE TIE IN
63	-	253+41	255+16	I-55 RT.				467	MILL & FILL AFTER CROSSOVER REMOVAL
63	-	251+15	252+90	I-55 RT.				467	MILL & FILL AFTER CROSSOVER REMOVAL
159	3	280+00	285+00	I-55, LT. & RT.			667		TEMPORARY WEDGING AT TEMPORARY CROSSOVER
171-172	3	457+00	462+30	I-55, LT. & RT.			707		TEMPORARY WEDGING AT TEMPORARY CROSSOVER
177	3	532+00	537+00	I-55, LT. & RT.			667		TEMPORARY WEDGING AT TEMPORARY CROSSOVER
156-158	3	249+88	270+91	I-55, LT.		2411			OUTSIDE SHOULDER
158-159	3	273+57	275+97	I-55, LT.		247			OUTSIDE SHOULDER
159-160	3	278+33	288+60	I-55, LT.		1165			OUTSIDE SHOULDER
171-172	3	456+16	462+90	I-55, LT.		676			OUTSIDE SHOULDER
172	3	468+33	475+12	I-55, LT.		689			OUTSIDE SHOULDER
174	3	491+32	497+00	I-55, LT.		417			OUTSIDE SHOULDER
174-175	3	497+42	509+87	I-55, LT.		1261			OUTSIDE SHOULDER
175-177	3	515+65	539+50	I-55, LT.		2599			OUTSIDE SHOULDER
157-158	3	255+15	270+64	I-55, LT.	344				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
158-159	3	273+33	275+71	I-55, LT.	53				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
159	3	278+14	282+30	I-55, LT.	92				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
171-172	3	462+62	462+90	I-55, LT.	6				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
172-173	3	468+35	478+35	I-55, LT.	222				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
173	3	480+24	484+18	I-55, LT.	88				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
174-177	3	490+76	534+44	I-55, LT.	971				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
195	4	280+00	285+00	I-55, LT. & RT.		667	667		FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
207-208	4	457+00	462+50	I-55, LT. & RT.		733	733		FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
207-208	4	532+00	537+00	I-55, LT. & RT.		667	667		FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
192-194	4	250+00	269+81	I-55, RT.		2205			OUTSIDE SHOULDER
194-195	4	273+56	274+93	I-55, RT.		149			OUTSIDE SHOULDER
195	4	278+40	286+00	I-55, RT.		824			OUTSIDE SHOULDER
207-208	4	455+40	462+42	I-55, RT.		698			OUTSIDE SHOULDER
208-209	4	468+70	476+27	I-55, RT.		749			OUTSIDE SHOULDER
210-211	4	490+94	511+22	I-55, RT.		2129			OUTSIDE SHOULDER
211-213	4	510+04	535+50	I-55, RT.		2521			OUTSIDE SHOULDER
193-194	4	253+87	269+81	I-55, RT.	354				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
194-195	4	273+56	274+93	I-55, RT.	30				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
195	4	278+40	282+40	I-55, RT.	89				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
207-208	4	459+36	462+42	I-55, RT.	68				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
208-209	4	468+70	478+37	I-55, RT.	215				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
209	4	481+54	482+91	I-55, RT.	30				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
210-213	4	490+94	534+46	I-55, RT.	967				2' WIDE MILL & FILL BETWEEN LANE 1 & 2
250	6	400+53	403+61	I-55, LT.		355			OUTSIDE SHOULDER
250	6	400+90	404+08	I-55, RT.		375			OUTSIDE SHOULDER
250	6	405+53	408+71	I-55, LT.		373			OUTSIDE SHOULDER
250-251	6	406+00	409+09	I-55, RT.		335			OUTSIDE SHOULDER
				TOTAL	3529	22,245	4,808	1868	

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SUMMARY OF QUANTITIES
SHEET 7 OF 16



DATE PREPARED
18-AUG-2021

ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 3

COUNTY

STL COUNTY/CITY

JOB NO.

J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

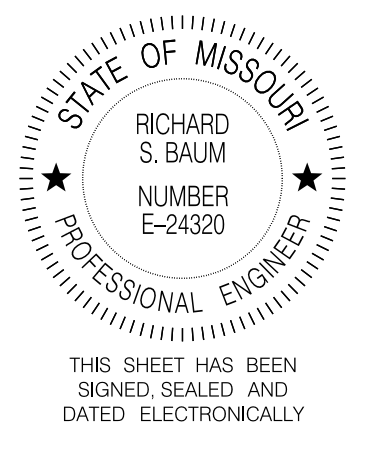
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

BITUMINOUS SHOULDER RUMBLE STRIP						
SHEET	STAGE	STATION	STATION	LOCATION	LENGTH	DESCRIPTION
					STA	
156-158	3	249+88	270+91	I-55, LT.	21.0	OUTSIDE SHOULDER
158-159	3	273+57	275+97	I-55, LT.	2.4	OUTSIDE SHOULDER
159-160	3	278+33	288+60	I-55, LT.	10.3	OUTSIDE SHOULDER
171-172	3	456+16	462+90	I-55, LT.	6.7	OUTSIDE SHOULDER
172-173	3	468+33	475+12	I-55, LT.	6.8	OUTSIDE SHOULDER
174	3	491+32	497+00	I-55, LT.	5.7	OUTSIDE SHOULDER
174-175	3	497+42	509+87	I-55, LT.	12.5	OUTSIDE SHOULDER
175-177	3	515+65	539+50	I-55, LT.	23.9	OUTSIDE SHOULDER
192-194	4	250+00	269+81	I-55, RT.	19.8	OUTSIDE SHOULDER
194-195	4	273+56	274+93	I-55, RT.	1.4	OUTSIDE SHOULDER
195	4	278+40	286+00	I-55, RT.	7.6	OUTSIDE SHOULDER
207-208	4	455+37	462+42	I-55, RT.	7.1	OUTSIDE SHOULDER
208-209	4	468+70	476+27	I-55, RT.	7.6	OUTSIDE SHOULDER
210-211	4	490+94	511+22	I-55, RT.	20.3	OUTSIDE SHOULDER
211-213	4	510+04	535+50	I-55, RT.	25.5	OUTSIDE SHOULDER
250	6	400+53	403+61	I-55, LT.	3.1	OUTSIDE SHOULDER
250	6	400+90	404+08	I-55 RT.	3.2	OUTSIDE SHOULDER
250	6	405+53	408+71	I-55, LT.	3.2	OUTSIDE SHOULDER
250-251	6	406+00	409+09	I-55 RT.	3.1	OUTSIDE SHOULDER
				TOTAL	191.2	

ITS TEMPORARY RELOCATIONS										
SHEET	STATION	STATION	LOCATION	BRIDGE NO.	BRIDGE LOCATION	MODOT ITS FACILITY	MODOT ITS FACILITY	MODOT ITS FACILITY	MODOT ITS FACILITY	REMARKS
						TEMP. RELOC. - A0607	TEMP. RELOC. - A0591	TEMP. RELOC. - A1057	TEMP. RELOC. - A1076/A1276	
						EACH	EACH	EACH	EACH	
288	270+54.60	273+21.48	I-55, LT.	A0607	GRAVOIS CREEK	1				SEE JOB SPECIAL PROVISION FOR MORE DETAILS
289	275+62.72	278+05.28	I-55, LT.	A0591	GREEN PARK ROAD		1			SEE JOB SPECIAL PROVISION FOR MORE DETAILS
290	462+83.85	468+35.35	I-55, LT.	A1057	RIVER DES PERES			1		SEE JOB SPECIAL PROVISION FOR MORE DETAILS
291 & 292	484+01.07	490+58.83	I-55, LT.	A1076/A1273	MISSOURI PACIFIC RAILROAD				1	SEE JOB SPECIAL PROVISION FOR MORE DETAILS
					TOTAL	1	1	1	1	

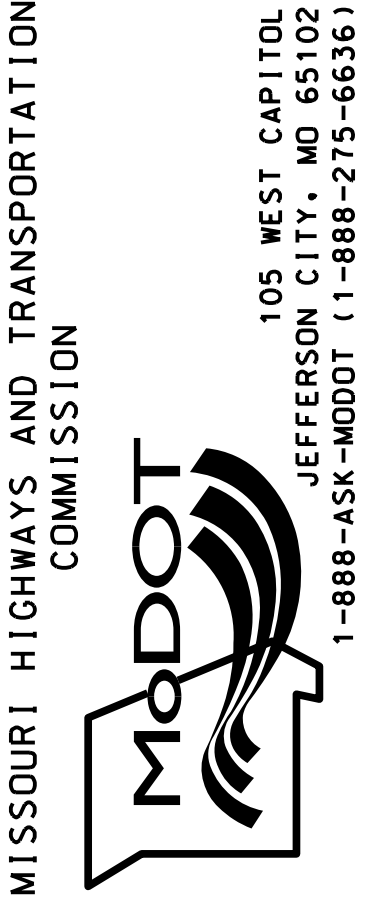
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SUMMARY OF QUANTITIES
 SHEET 8 OF 16

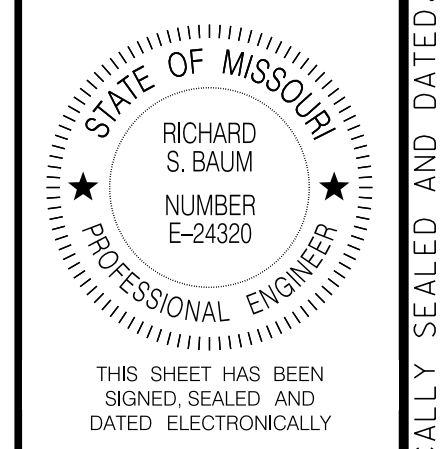


DATE PREPARED	05-AUG-2021		
ROUTE	1-55	STATE	MO
DISTRICT	SL	SHEET NO.	3
COUNTY	STL COUNTY/CITY		
JOB NO.	J613187		
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DESCRIPTION	DATE



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DATE PREPARED
 05-AUG-2021

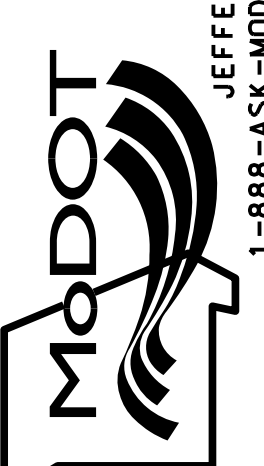
ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	3

COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
 SHEET 9 OF 16

INLET TOP REPLACEMENT

SHEET	STAGE	STATION	LOCATION	EACH
9 & 48	-	270+13	I-55, LT.	1
9 & 48	-	270+13	I-55, RT.	1
9 & 48	-	273+60	I-55, LT.	1
10 & 49	-	275+08	I-55, RT.	1
10 & 49	-	278+58	I-55, LT.	1
23 & 51	-	468+70	I-55, LT.	1
23 & 51	-	468+70	I-55, RT.	1
24 & 52	-	480+81	I-55, RT.	1
24 & 52	-	480+43	I-55, LT.	1
25 & 61	-	499+58	I-55, LT.	1
25 & 61	-	499+58	I-55, RT.	1
26 & 61	-	503+00	I-55, LT.	1
26 & 61	-	503+00	I-55, RT.	1
26 & 61	-	504+49	I-55, RT.	1
26 & 61	-	505+22	I-55, LT.	1
26 & 61	-	505+22	I-55, RT.	1
26 & 61	-	505+30	I-55, LT.	1
26 & 61	-	505+30	I-55, RT.	1
26 & 61	-	506+02	I-55, LT.	1
26 & 61	-	506+95	I-55, LT.	1
26 & 61	-	506+95	I-55, RT.	1
33 & 62	-	602+60	I-55, LT.	1
8 & 63	-	253+85	I-55, LT.	1
10 & 159	3	282+05	I-55, LT.	1
10 & 159	3	282+05	I-55, RT.	1
22 & 171	3	457+89	I-55, LT.	1
23 & 172	3	462+06	I-55, LT.	1
23 & 172	3	468+82	I-55, LT.	1
25 & 174	3	496+11	I-55, LT.	1
26 & 175	3	503+08	I-55, LT.	1
26 & 175	3	504+19	I-55, LT.	1
26 & 175	3	505+21	I-55, LT.	1
6, 27 & 17	3	515+98	I-55, LT.	1
27 & 176	3	518+47	I-55, LT.	1
27 & 176	3	522+63	I-55, LT.	1
27 & 176	3	527+96	I-55, LT.	1
28 & 177	3	533+98	I-55, LT.	1
28 & 177	3	534+98	I-55, LT.	1
28 & 177	3	534+98	I-55, RT.	1
10 & 195	4	282+05	I-55, LT.	1
10 & 195	4	282+05	I-55, RT.	1
22 & 207	4	456+47	I-55, RT.	1
23 & 208	4	462+07	I-55, RT.	1
23 & 208	4	468+84	I-55, RT.	1
25 & 210	4	495+23	I-55, RT.	1
25 & 210	4	498+39	I-55, RT.	1
25 & 210	4	501+27	I-55, RT.	1
26 & 211	4	502+93	I-55, RT.	1
26 & 211	4	505+05	I-55, RT.	1
26 & 211	4	505+99	I-55, RT.	1
26 & 211	4	506+62	I-55, RT.	1
26 & 211	4	510+18	I-55, RT.	1
26 & 211	4	510+83	I-55, RT.	1
26 & 211	4	512+76	I-55, RT.	1
26 & 211	4	514+46	I-55, RT.	1
27 & 212	4	516+97	I-55, RT.	1
27 & 212	4	519+01	I-55, RT.	1
27 & 212	4	522+64	I-55, RT.	1

INLET TOP REPLACEMENT (CONT.)

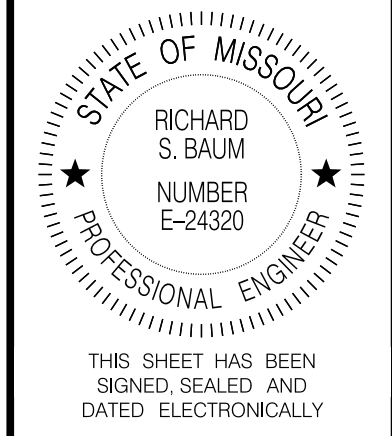
SHEET	STAGE	STATION	LOCATION	EACH
28 & 213	4	534+98	I-55, LT.	1
28 & 213	4	534+98	I-55, RT.	1
28 & 213	4	534+98	I-55, RT.	1
			TOTAL	61

Preliminary

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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SHEET	STATION	STATION	LOCATION	CONCRETE TRAFFIC BARRIER		6 IN. CONCRETE MEDIAN STRIP	REMARKS
				TYPE C	TYPE C (MODIFIED)		
				LF	LF		
5	213+25.00	220+00.82	I-55, CL & N.B. BL	676			
8	251+80.37	255+47.34	I-55, S.B. BL	367			
8	255+47.34	257+34.10	I-55, S.B. BL		187		
8	257+38.10	264+00.00	I-55, CL & S.B. BL		662		
9	264+00.00	270+34.60	I-55, CL		635		
9	273+41.48	273+88.99	I-55, CL		48		
9	273+88.99	274+50.00	I-55, CL	61			INCLUDES STEEL PLATES
10	274+50.00	275+42.72	I-55, CL	93			
10	278+25.28	288+00.00	I-55, CL	975			
11	288+00.00	302+00.00	I-55, CL	1400			
12	302+00.00	313+75.76	I-55, CL	1176			
12	309+07.05					6.1	
12	315+56.53	316+00.00	I-55, CL	43			
13	316+00.00	330+00.00	I-55, CL	1400			
13	321+37.27					6.1	
14	330+00.00	341+49.35	I-55, CL	1149			
14	339+51.53					5.5	
14	341+49.35	344+00.00	I-55, CL		251		
15	344+00.00	352+10.00	I-55, CL		810		
15	355+36.00	358+00.00	I-55, CL		264		
16	358+00.00	372+00.00	I-55, CL		1400		
17	372+00.00	390+23.92	I-55, CL		934		
17	373+04.47					6.1	
17	390+28.40					4.8	
17	390+31.71	395+00.00	I-55, CL	468			
18	395+00.00	403+63.54	I-55, CL	864			
18	398+02.46					6.1	
18	405+98.32	409+00.00	I-55, CL	302			
19	409+00.00	409+99.00	I-55, CL	99			
19	410+02.11					4.8	
19	410+05.43	423+00.00	I-55, CL	1295			
20	423+00.00	437+00.00	I-55, CL	1400			
20	431+02.34					6.1	
21	437+00.00	451+00.00	I-55, CL	1400			
21	445+22.97					6.1	
22	451+00.00	461+00.00	I-55, CL	1000			
22	453+94.56					6.1	
23	461+00.00	462+57.10	I-55, CL	157			
23	468+55.35	475+00.00	I-55, CL	645			
23	474+94.40					6.1	
24	475+00.00	478+53.11	I-55, CL	353			INCLUDES STEEL PLATES
24	480+60.28	483+81.05	I-55, CL	321			
25	490+78.88	502+00.00	I-55, CL		1121		
25	490+99.00					5.5	
26	502+00.00	503+35.82	I-55, CL		136		
26	503+35.82	516+00.00	I-55, CL	1264			
26	509+33.39					6.1	
27	516+00.00	520+31.36	I-55, CL	431			
27	520+11.34					6.1	
			TOTAL	19.937	3850	81.6	



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 3

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

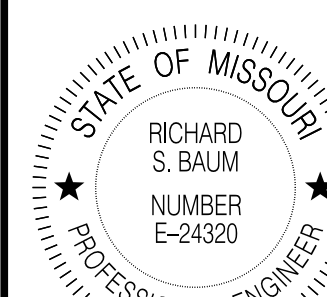


Jacobs
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ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
SHEET 11 OF 16

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THIS SHEET HAS BEEN
 SIGNED SEALED AND
 DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **3**
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
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BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
 COMMISSION

MoDOT

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
 SHEET 13 OF 16

TEMPORARY PAVEMENT MARKINGS									
STAGE	SHEET	STATION	STATION	LOCATION	WATERBORNE PAINT, TYPE P BEADS				
					6" SOLID WHITE	6" INTER. WHITE	6" DOTTED WHITE	12" SOLID WHITE	6" SOLID YELLOW
					LF	LF	LF	LF	LF
3	156	237+00	251+00	N.B. I-55	2030	30			855
3	156	237+00	251+00	S.B. I-55	330				110
3	157	251+00	264+00	N.B. I-55	1845	190			1050
3	157	251+00	264+00	S.B. I-55	1785	519			250
3	158	264+00	274+50	N.B. I-55	1050	263			
3	158	264+00	274+50	S.B. I-55	1030	518			
3	159	274+50	288+00	N.B. I-55	1490	154			435
3	159	274+50	288+00	S.B. I-55	1950	525			300
3	160	288+00	302+00	S.B. I-55	180				60
3	171	451+00	461+00	N.B. I-55	873				435
3	171	451+00	461+00	S.B. I-55	1220	70			360
3	172	461+00	475+00	N.B. I-55	1530	309			125
3	172	461+00	475+00	S.B. I-55	1475	700			
3	173	475+00	489+00	N.B. I-55	1400	349			
3	173	475+00	489+00	S.B. I-55	1245	694			
3	174	489+00	502+00	N.B. I-55	1295	321			
3	174	489+00	502+00	S.B. I-55	1315	633	85	160	
3	175	502+00	516+00	N.B. I-55	1405	351			
3	175	502+00	516+00	S.B. I-55	1220	709		25	
3	176	516+00	530+00	N.B. I-55	1400	351			
3	176	516+00	530+00	S.B. I-55	1425	709			
3	177	530+00	544+00	N.B. I-55	1130	68			430
3	177	530+00	544+00	S.B. I-55	1885	350	96	165	360
4	192	237+00	251+00	N.B. I-55	1180	3	119		360
4	192	237+00	251+00	S.B. I-55	330				780
4	193	251+00	264+00	N.B. I-55	1315	329			285
4	193	251+00	264+00	S.B. I-55	2505	354			545
4	194	264+00	274+50	N.B. I-55	1070	266			
4	194	264+00	274+50	S.B. I-55	1050	45			
4	195	274+50	288+00	N.B. I-55	1450	213			425
4	195	274+50	288+00	S.B. I-55	2970	270			805
4	196	288+00	302+00	S.B. I-55	180				60
				SUBTOTAL 1	42,558	9,293	300	350	8,030

NOTE: INCLUDED IN LUMP SUM TRAFFIC CONTROL

TEMPORARY PAVEMENT MARKINGS (CONT.)									
STAGE	SHEET	STATION	STATION	LOCATION	WATERBORNE PAINT, TYPE P BEADS				
					6" SOLID WHITE	6" INTER. WHITE	6" DOTTED WHITE	12" SOLID WHITE	6" SOLID YELLOW
					LF	LF	LF	LF	LF
4	207	451+00	461+00	N.B. I-55	920	50			370
4	207	451+00	461+00	S.B. I-55	1505				505
4	208	461+00	475+00	N.B. I-55	1400	350			
4	208	461+00	475+00	S.B. I-55	1590	653			90
4	209	475+00	489+00	N.B. I-55	1420	356			
4	209	475+00	489+00	S.B. I-55	1400	703			
4	210	489+00	502+00	N.B. I-55	1135	333			
4	210	489+00	502+00	S.B. I-55	1300	655			
4	211	502+00	516+00	N.B. I-55	1465	345	119	160	
4	211	502+00	516+00	S.B. I-55	1400	696			
4	212	516+00	530+00	N.B. I-55	1380	345			
4	212	516+00	530+00	S.B. I-55	1400	696			
4	213	530+00	544+00	N.B. I-55	1000	100			310
4	213	530+00	544+00	S.B. I-55	2890	100	65	160	695
4	214	544+00	558+00	S.B. I-55	420				140
5	231	395+00	409+00	N.B. I-55	2065	51			1165
5	231	395+00	409+00	S.B. I-55	1085	51			645
5	232	409+00	423+00	S.B. I-55	1040				520
5A	239	395+00	409+00	S.B. I-55	640	51			
5A	240	409+00	423+00	S.B. I-55	165				
6	250	395+00	409+00	N.B. I-55	2020	103			810
6	250	395+00	409+00	S.B. I-55	2050	103			820
6	251	409+00	423+00	N.B. I-55	30				10
				SUBTOTAL 2	29,720	5,741	184	320	6,080
				TOTAL		87,796		670	14,110

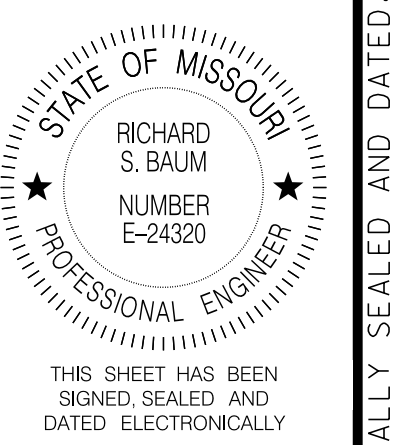
NOTE: INCLUDED IN LUMP SUM TRAFFIC CONTROL

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TEMPORARY TRAFFIC BARRIER

SHEET	STATION	STATION	ROADWAY	LOCATION	STAGE	FREE STANDING	ANCHORED	STIFFNESS TRANSITION	RELOCATE FREE STANDING	RELOCATE ANCHORED	14 BARREL IMPACT ATTENUATOR	RELOCATE 14 BARREL IMPACT ATTENUATOR	REPLACEMENT SAND BARREL	REMARKS	
						LF	LF	LF	LF	LF	EACH	EACH	EACH		
157	250+68 (NB)	259+08	I-55	NB	3	750					1				
157	253+45	256+95	I-55	SB	3	350									
157	256+95	259+08	I-55	SB	3			213							
157	259+08	264+00	I-55	NB & SB	3		492								
158	264+00	274+50	I-55	NB & SB	3		1050								
159	274+50	280+71	I-55	NB & SB	3		621								
159	280+71	282+84	I-55	SB	3			213							
159	282+84	285+09	I-55	SB	3	225					1				
159	285+09	286+75	I-55	SB	3	175					1			8:1 TAPER RATE	
171	457+00	460+17	I-55	SB	3	317								8:1 TAPER RATE	
171	457+12	461+00	I-55	NB	3	388					1			8:1 TAPER RATE	
171	460+17	461+00	I-55	SB	3			83							
172	461+00	462+30	I-55	SB	3			130							
172	461+00	462+34	I-55	NB	3	134									
172	462+30	475+00	I-55	NB & SB	3		1270								
173	475+00	489+00	I-55	NB & SB	3		1400								
174	489+00	502+00	I-55	NB & SB	3		1300								
175	502+00	516+00	I-55	NB & SB	3		1400								
176	516+00	530+00	I-55	NB & SB	3		1400								
177	530+00	532+73	I-55	NB & SB	3		273								
177	532+73	534+86	I-55	SB	3			213							
177	534+86	536+99	I-55	SB	3	213					1				
177	536+99	538+85	I-55	SB	3	188					1			8:1 TAPER RATE	
192	250+89	251+00	I-55	NB	4	11					1				
192	250+18	251+00	I-55	SB	4	82									
193	251+00	253+82	I-55	NB	4	288								8:1 TAPER RATE	
193	253+82	254+82	I-55	NB	4		100								
193	254+82	256+95	I-55	NB	4			213							
193	256+95	264+00	I-55	NB & SB	4		705								
193	251+00	255+50	I-55	SB	4	450									
194	264+00	274+50	I-55	NB & SB	4		1050								
195	274+50	280+00	I-55	NB	4		550								
195	280+00	282+13	I-55	NB	4			213							
195	282+13	285+01	I-55	SB	4	288									
195	279+86	286+36	I-55	SB	4	650					1			8:1 TAPER RATE	
207	456+34	459+90	I-55	NB	4	363					2			8:1 TAPER RATE	
207	459+90	461+00	I-55	NB	4			110							
208	461+00	462+03	I-55	NB	4			103							
208	462+03	475+00	I-55	NB & SB	4		1297								
209	475+00	489+00	I-55	NB & SB	4		1400								
210	489+00	502+00	I-55	NB & SB	4		1300								
211	502+00	516+00	I-55	NB & SB	4		1400								
212	516+00	530+00	I-55	NB & SB	4		1400								
212	526+67	530+00	I-55	SB	4	333								8:1 TAPER RATE	
213	530+00	532+00	I-55	NB & SB	4		200								
213	530+00	531+42	I-55	SB	4	142					1			8:1 TAPER RATE	
213	532+00	534+13	I-55	NB	4			213							
213	534+13	537+01	I-55	NB	4	288								8:1 TAPER RATE	
231	401+91	406+03	I-55	NB	5		412				1			8:1 TAPER RATE	
231	403+69	407+69	I-55	SB	5		400				1			8:1 TAPER RATE	
239	403+64	407+14	I-55	NB	5A									8:1 TAPER RATE	
250	402+36	405+99	I-55	NB	6							350		8:1 TAPER RATE	
250	403+68	407+18	I-55	SB	6							363		8:1 TAPER RATE	
152-255	251+52	304+32	I-55	NB & SB	3-6	10560			1030					8:1 TAPER RATE	
152-255	304+32	357+12	I-55	NB & SB	3-6	10560					2		4	RELOCATE FOR CROSSOVER	
152-255	357+12	409+92	I-55	NB & SB	3-6	10560						2	4		
152-255	409+92	462+72	I-55	NB & SB	3-6	10560			530			2	4	RELOCATE FOR CROSSOVER	
152-255	462+72	515+52	I-55	NB & SB	3-6	10560							2	4	
152-255	515+52	540+60	I-55	NB & SB	3-6	5016							2	4	RELOCATE FOR CROSSOVER
					TOTAL	63.451	19.420	1.704	2.060	1.063	15	13	20		

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05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 3

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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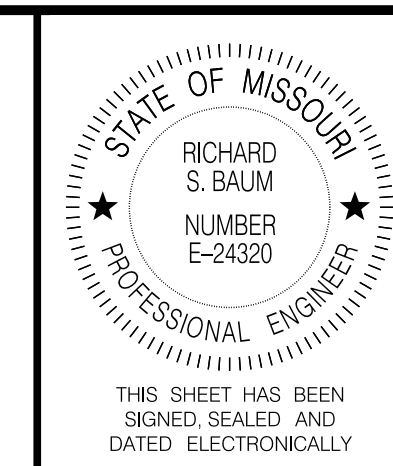
SUMMARY OF QUANTITIES
 SHEET 14 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TEMPORARY TRAFFIC CONTROL - 1.0 LUMP SUM

ITEM	QTY	UNIT	PRICE	AMOUNT
CO20-5OP: WORK ZONE PLAQUE	6	SQ. FT.	16	96
W01-4BL: DOUBLE ARROW REVERSE CURVE (LEFT)	16	SQ. FT.	16	256
W01-4BR: DOUBLE ARROW REVERSE CURVE (RIGHT)	16	SQ. FT.	16	256
W01-4CL: TRIPLE ARROW REVERSE CURVE (LEFT)	16	SQ. FT.	16	256
W01-4CR: TRIPLE ARROW REVERSE CURVE (RIGHT)	16	SQ. FT.	16	256
W020-1: ROAD/BRIDGE/RAMP WORK AHEAD	16	SQ. FT.	16	256
W020-5a: 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	16	SQ. FT.	16	256
W020-5: RIGHT/CENTER/LEFT LANE CLOSED AHEAD	16	SQ. FT.	16	256
W020-6a: RIGHT/CENTER/LEFT LANE CLOSED	16	SQ. FT.	16	256
W04-1R: MERGE (SYMBOL FROM RIGHT)	16	SQ. FT.	16	256
W04-1oL: MERGE LEFT	16	SQ. FT.	16	256
W04-1oR: MERGE RIGHT	16	SQ. FT.	16	256
W05-1: ROAD NARROWS	16	SQ. FT.	16	256
W05-5: NARROW LANES	16	SQ. FT.	16	256
R2-1: SPEED LIMIT 50	12	SQ. FT.	12	144
R2-1: SPEED LIMIT 60	12	SQ. FT.	12	144
R11-2: ROAD CLOSED	10	SQ. FT.	10	100
R11-4: ROAD CLOSED TO THRU TRAFFIC	13	SQ. FT.	13	169
W020-3: ROAD/RAMP CLOSED AHEAD	9	SQ. FT.	9	81
W020-2: DETOUR AHEAD	9	SQ. FT.	9	81
M04-8o: END DETOUR	3	SQ. FT.	3	27
M04-9L: DETOUR (LEFT)	12	SQ. FT.	12	144
M04-9R: DETOUR (RIGHT)	12	SQ. FT.	12	144
M04-10L: DETOUR LEFT	6	SQ. FT.	6	54
M04-10R: DETOUR RIGHT	6	SQ. FT.	6	54
M04-9oL: DETOUR (BIKE AND PEDESTRIAN) W/LEFT ARROW	5	SQ. FT.	5	45
M04-9oR: DETOUR (BIKE AND PEDESTRIAN) W/RIGHT ARROW	5	SQ. FT.	5	45
SPECIAL: DETOUR I-55 SOUTH LEFT ARROW	20	SQ. FT.	20	200
SPECIAL: DETOUR I-55 SOUTH RIGHT ARROW	20	SQ. FT.	20	200
SPECIAL: DETOUR I-55 SOUTH STRAIGHT ARROW	20	SQ. FT.	20	200
SPECIAL: DETOUR I-55 NORTH LEFT ARROW	20	SQ. FT.	20	200
SPECIAL: DETOUR I-55 NORTH RIGHT ARROW	20	SQ. FT.	20	200
SPECIAL: DETOUR I-55 NORTH STRAIGHT ARROW	20	SQ. FT.	20	200
SPECIAL: EXIT 202B/USE EXIT 201B	64	SQ. FT.	64	8192
SPECIAL: EXIT 202C/USE EXIT 201B	64	SQ. FT.	64	8192
SPECIAL: EXIT 202C/USE EXIT 203	64	SQ. FT.	64	8192
SPECIAL: GREEN PARK RD	4	SQ. FT.	4	36
SPECIAL: CARONDELET BLVD	4	SQ. FT.	4	36
SPECIAL: RIVER CITY BLVD	4	SQ. FT.	4	36
SPECIAL: GERMANIA ST	4	SQ. FT.	4	36
SPECIAL: LOUGHBOROUGH AVE	4	SQ. FT.	4	36
SPECIAL: DETOUR STRAIGHT	12	SQ. FT.	12	108
SPECIAL: DETOUR 45 DEGREE RIGHT	12	SQ. FT.	12	108
SPECIAL: DETOUR (BIKE AND PEDESTRIAN) W/STRAIGHT ARROW	5	SQ. FT.	5	45
SPECIAL: BIKE AND PEDESTRIAN (PATH) CLOSED	4	SQ. FT.	4	36
SPECIAL: BIKE AND PEDESTRIAN (PATH) CLOSED 0.5 MI AHEAD	6	SQ. FT.	6	54
SPECIAL: BIKE AND PEDESTRIAN (PATH) END DETOUR	3	SQ. FT.	3	27
SPECIAL: REGIONAL SIGNING - I-55 NORTH USE I-44	72	SQ. FT.	72	864
SPECIAL: REGIONAL SIGNING - I-55 NORTH USE I-270 TO I-44	72	SQ. FT.	72	864
ADVANCE WARNING RAIL SYSTEM	1	SQ. FT.	1	1
TYPE 3 MOVABLE BARRICADES	1	SQ. FT.	1	1
TRIMLINE CHANNELIZER	1	SQ. FT.	1	1
DIRECTION INDICATOR BARRICADE	1	SQ. FT.	1	1
SEQUENTIAL FLASHING WARNING LIGHT	1	SQ. FT.	1	1
FLASHING ARROW PANEL	1	SQ. FT.	1	1
LONG TERM RUMBLE STRIPS	1	SQ. FT.	1	1
ORANGE CONSTRUCTION FENCE	1	SQ. FT.	1	1
2" COMMERCIAL ASPHALT MIX	1	SQ. FT.	1	1

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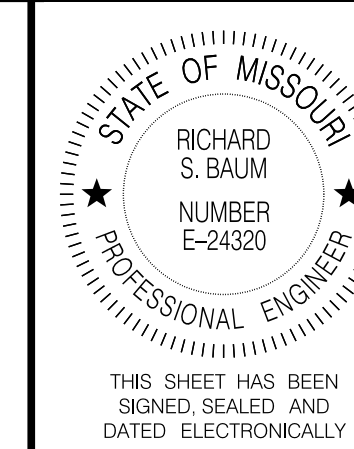
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
 29-SEP-2021

ROUTE 1-55 STATE MO

DISTRICT SL SHEET NO. 3

COUNTY STL COUNTY/CITY

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
 SHEET 16 OF 16

PAVEMENT MARKING REMOVAL					
SHEET	ROADWAY	LOCATION	PERM. EXISTING	TEMP. PAINT	REMARKS
			LF	LF	
152-184	I-55	NB & SB	35241		PRIOR TO STAGE 3
188-218	I-55	NB & SB	32893	6560	PRIOR TO STAGE 4
152-184 188-218	I-55	NB & SB		82592	AFTER STAGE 4
224-238	I-55	NB & SB	2120		PRIOR TO STAGE 5
239-244	I-55	NB & SB	203	267	PRIOR TO STAGE 5A
245-255	I-55	NB & SB	2198	3332	PRIOR TO STAGE 6
224-238 239-244 245-255	I-55	NB & SB		10092	AFTER STAGE 6
SUBTOTAL			72,655	102,843	
TOTAL			175,498		

NOTE: INCLUDED IN LUMP SUM TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL			
TRAFFIC CONTROL PLAN	STAGE	NTCIP COMPLIANT CHANGEABLE MESSAGE SIGN	TRUCK MOUNTED ATTENUATOR
		EACH	EACH
I-55 STAGE 3	3		3
STAGE 3 DETOUR - LOUGHBOROUGH AVE NB I-55 OFF RAMP	3	4	
STAGE 3 DETOUR - LOUGHBOROUGH AVE & GERMANIA ST NB I-55 ON RAMP	3	4	
I-55 STAGE 4	4		
STAGE 4 DETOUR - LOUGHBOROUGH AVE SB I-55 ON RAMP	4		
STAGE 4 DETOUR - LOUGHBOROUGH AVE & GERMANIA ST SB I-55 OFF RAMP	4		
STAGE 4 DETOUR - GERMANIA ST NB I-55 ON RAMP	4	4	
STAGE 3 & 4 DETOUR - CARONDELET BLVD/ RIVER CITY BLVD	3 & 4	4	
STAGE 3 & 4 DETOUR - GERMANIA ST	3 & 4	4	
STAGE 3 & 4 DETOUR - GREEN PARK RD	3 & 4	4	
I-55 STAGE 5	5		
I-55 STAGE 5A	5A		
I-55 STAGE 6	6		
I-55 PEDESTRIAN BRIDGE REMOVAL DETOUR	--		
CARONDELET CONNECTOR DETOUR	3 & 4		
MEDIAN BARRIER REPLACEMENT	--		2
TOTAL		24	5

NOTE: ITEMS NOT INCLUDED IN LUMP SUM TRAFFIC CONTROL

MOBILIZATION		
TOTAL	1	LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING		
TOTAL	1	LUMP SUM

MAINTAIN &/OR REINSTALL EXISTING MODOT LIGHTING		
TOTAL	1	LUMP SUM

SEEDING - SIGMA CHEMICAL CO.		
TOTAL	2.5	ACRE

TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING		
TOTAL	1	LUMP SUM

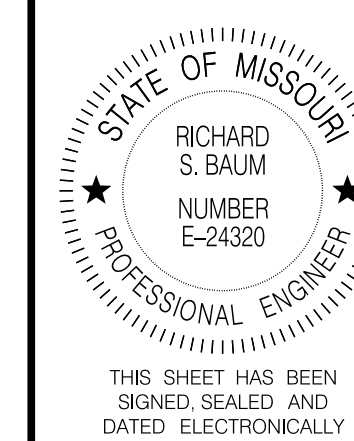
TEMPORARY PAVEMENT MARKING PAINT		
TOTAL	1	LUMP SUM

CONCRETE SIDEWALK, (4 IN.)				
SHEET	STATION	STATION	LOCATION	SY
59	685+73	686+82	I-55, LT. & RT.	186.4
59	688+54	689+91	I-55, LT. & RT.	128.2
59	689+05		I-55, LT.	11.1
TOTAL				325.7

BRIDGE APPROACH						
SHEET	STATION	STATION	LOCATION	CONCRETE APPROACH PAVEMENT	SUBGRADE COMPACTION (P.V.M.'T REPAIR)	REMARKS
				SY	SY	
54	546+56.21	546+71.21	I-55, LT.	106.6	11	BRIDGE #A10793 (VIRGINIA AVE.)
54	546+56.21	546+71.21	I-55, RT.	106.1	11	BRIDGE #A10792 (VIRGINIA AVE.)
54	548+65.21	548+80.21	I-55, LT.	107.5	11	BRIDGE #A10793 (VIRGINIA AVE.)
54	548+65.21	548+80.21	I-55, RT.	106.7	11	BRIDGE #A10792 (VIRGINIA AVE.)
55	551+55.04	552+06.32	I-55, LT.	241.2	24	BRIDGE #A10803 (BATES AVE.)
55	551+91.32	552+06.32	I-55, RT.	230.5	23	BRIDGE #A10802 (BATES AVE.)
55	554+10.70	554+25.70	I-55, LT.	212.9	21	BRIDGE #A10803 (BATES AVE.)
55	554+10.70	554+53.82	I-55, RT.	210.0	21	BRIDGE #A10802 (BATES AVE.)
56	602+68.11	603+13.57	I-55, RT.	221.2	22	BRIDGE #A10823 (4500 S. BROADWAY)
56	603+02.61	603+17.61	I-55, LT.	214.4	21	BRIDGE #A10824 (4500 S. BROADWAY)
56	605+36.72	605+85.44	I-55, LT.	234.3	23	BRIDGE #A10824 (4500 S. BROADWAY)
56	605+42.45	605+57.45	I-55, RT.	216.7	22	BRIDGE #A10823 (4500 S. BROADWAY)
57	635+65.05	636+23.97	I-55, LT.	220.5	22	BRIDGE #A10834 (GASCONADE ST.)
57	636+13.97	636+23.97	I-55, RT.	221.8	22	BRIDGE #A10833 (GASCONADE ST.)
57	638+41.46	638+50.46	I-55, LT.	309.5	31	BRIDGE #A10834 (GASCONADE ST.)
57	638+41.46	639+29.21	I-55, RT.	304.4	30	BRIDGE #A10833 (GASCONADE ST.)
58	679+20.67	679+73.44	I-55, RT.	200.8	20	BRIDGE #A10843 (POTOMAC ST.)
58	679+58.44	679+73.44	I-55, LT.	242.1	24	BRIDGE #A10842 (POTOMAC ST.)
58	681+80.29	681+95.29	I-55, RT.	198.2	20	BRIDGE #A10843 (POTOMAC ST.)
58	681+80.29	682+25.45	I-55, LT.	179.8	18	BRIDGE #A10842 (POTOMAC ST.)
59	684+43.76	684+97.30	I-55, LT.	213.2	21	BRIDGE #A1085 (2ND ST.)
59	684+85.88	684+97.30	I-55, RT.	198.1	20	BRIDGE #A1085 (2ND ST.)
59	691+26.83	691+38.40	I-55, LT.	187.0	19	BRIDGE #A1085 (2ND ST.)
59	691+26.83	691+75.45	I-55, RT.	231.7	23	BRIDGE #A1085 (2ND ST.)
60	692+04.08	692+43.55	I-55, LT.	186.4	19	BRIDGE #A10864 (3200 S. BROADWAY)
60	692+28.55	692+43.55	I-55, RT.	159.4	16	BRIDGE #A10863 (3200 S. BROADWAY)
60	694+66.97	694+80.46	I-55, LT.	160.3	16	BRIDGE #A10864 (3200 S. BROADWAY)
60	694+66.97	694+96.28	I-55, RT.	135.1	14	BRIDGE #A10863 (3200 S. BROADWAY)
TOTAL				5556.4	556	

NOTE: USED 10% OF CONCRETE APPROACH PAVEMENT AREA FOR SUBGRADE COMPACTION.

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DATE PREPARED
16-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **3**
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

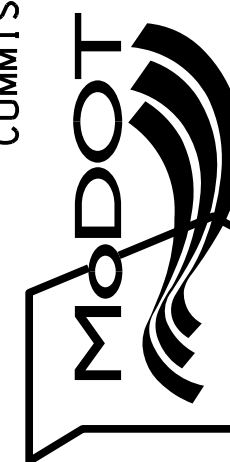
PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)



JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
 SHEET 1 OF 13

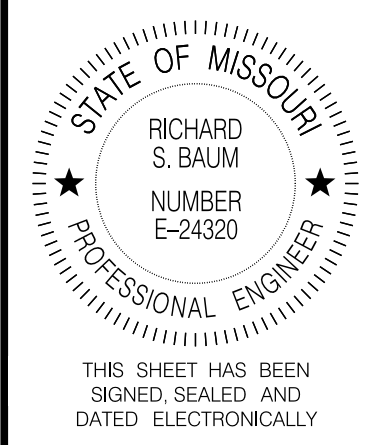
REMOVAL OF IMPROVEMENTS (CONT.)				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
56	605+03		I-55, RT.	CATHODIC PROTECTION CABINET, COMPONENTS & CONCRETE PAD
56	605+16.72	605+36.72	I-55, LT.	APPROACH SLAB, 141 SY
56	605+22.45	605+42.45	I-55, RT.	APPROACH SLAB, 141 SY
56	605+36.72	605+85.44	I-55, LT.	APPROACH PAVEMENT, 234 SY
56	605+42.45	605+57.45	I-55, RT.	APPROACH PAVEMENT, 217 SY
56			I-55, LT.	CONCRETE SLOPE PROTECTION, 650 SF
56			I-55, RT.	CONCRETE SLOPE PROTECTION, 250 SF
57	635+65.05	636+23.97	I-55, LT.	APPROACH PAVEMENT, 221 SY
57	636+13.97	636+23.97	I-55, RT.	APPROACH PAVEMENT, 222 SY
57	636+23.97	636+43.97	I-55, LT.	APPROACH SLAB, 124 SY
57	636+23.97	636+43.97	I-55, RT.	APPROACH SLAB, 121 SY
57	638+21.46	638+41.46	I-55, LT.	APPROACH SLAB, 123 SY
57	638+21.46	638+41.46	I-55, RT.	APPROACH SLAB, 121 SY
57	638+41.46	638+50.46	I-55, LT.	APPROACH PAVEMENT, 310 SY
57	638+41.46	639+29.21	I-55, RT.	APPROACH PAVEMENT, 304 SY
57			I-55, LT.	CONCRETE SLOPE PROTECTION, 110 SF
57			I-55, RT.	CONCRETE SLOPE PROTECTION, 4210 SF
58	679+21	679+87	I-55, RT.	CONCRETE SLOPE PROTECTION, 325 SF
58	679+20.67	679+73.44	I-55, RT.	APPROACH PAVEMENT, 201 SY
58	679+58	679+94	I-55, LT.	CONCRETE SLOPE PROTECTION, 147 SF
58	679+58.44	679+73.44	I-55, LT.	APPROACH PAVEMENT, 242 SY
58	679+73.44	679+93.44	I-55, RT.	APPROACH SLAB, 123 SY
58	679+73.44	679+93.44	I-55, LT.	APPROACH SLAB, 127 SY
58	681+60.29	681+80.29	I-55, RT.	APPROACH SLAB, 125 SY
58	681+60.29	681+80.29	I-55, LT.	APPROACH SLAB, 124 SY
58	681+70	681+95	I-55, RT.	CONCRETE SLOPE PROTECTION, 108 SF
58	681+75	682+45	I-55, LT.	CONCRETE SLOPE PROTECTION, 308 SF
58	681+80.29	681+95.29	I-55, RT.	APPROACH PAVEMENT, 198 SY
58	681+80.29	682+25.45	I-55, LT.	APPROACH PAVEMENT, 180 SY
58			I-55, LT.	CONCRETE SLOPE PROTECTION, 670 SF
58			I-55, RT.	CONCRETE SLOPE PROTECTION, 150 SF
59	684+44	684+97	I-55, LT.	APPROACH PAVEMENT, 213 SY
59	684+86	684+97	I-55, RT.	APPROACH PAVEMENT, 198 SY
59	684+97	685+17	I-55, LT.	APPROACH SLAB, 127 SY
59	684+97	685+17	I-55, RT.	APPROACH SLAB, 126 SY
59	685+73	686+82	I-55, LT. & RT.	ASPHALT SIDEWALK, 186 SY
59	688+54	689+91	I-55, LT. & RT.	ASPHALT SIDEWALK, 128 SY
59	689+05		I-55, LT.	CURB & GUTTER, 20 LF
59	689+05		I-55, LT.	CONCRETE SIDEWALK, 11.1 SY
59	689+87		I-55, CL	LIGHT POLE (REMOVE & RE-INSTALL)
59	691+07	691+27	I-55, LT.	APPROACH SLAB, 127 SY
59	691+07	691+27	I-55, RT.	APPROACH SLAB, 150 SY
59	691+27	691+38	I-55, LT.	APPROACH PAVEMENT, 187 SY
59	691+27	691+75	I-55, RT.	APPROACH PAVEMENT, 232 SY
59			I-55, LT & RT.	CONCRETE SLOPE PROTECTION, 500 SF
59			I-55, LT & RT.	CONCRETE SLOPE PROTECTION, 500 SF
59			I-55, LT & RT.	CONCRETE SLOPE PROTECTION, 75 SF
60	692+04	692+59	I-55, LT.	CONCRETE SLOPE PROTECTION, 344 SF
60	692+04.08	692+43.55	I-55, LT.	APPROACH PAVEMENT, 186 SY
60	692+28.55	692+43.55	I-55, RT.	APPROACH PAVEMENT, 159 SY
60	692+29	692+22	I-55, RT.	CONCRETE SLOPE PROTECTION, 151 SF
60	692+43.55	692+63.55	I-55, LT.	APPROACH SLAB, 145 SY
60	692+43.55	692+63.55	I-55, RT.	APPROACH SLAB, 127 SY
60	694+46.97	694+66.97	I-55, LT.	APPROACH SLAB, 147 SY
60	694+46.97	694+66.97	I-55, RT.	APPROACH SLAB, 126 SY
60	694+57	694+80	I-55, LT.	CONCRETE SLOPE PROTECTION, 143 SF
60	694+60	694+96	I-55, RT.	CONCRETE SLOPE PROTECTION, 180 SF
60	694+66.97	694+80.46	I-55, LT.	APPROACH PAVEMENT, 160 SY

REMOVAL OF IMPROVEMENTS (CONT.)				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
60	694+66.97	694+96.28	I-55, RT.	APPROACH PAVEMENT, 135 SY
60			I-55, LT.	CONCRETE SLOPE PROTECTION, 3120 SF
60			I-55, RT.	CONCRETE SLOPE PROTECTION, 1650 SF
61	602+15	603+03	I-55, LT.	CONCRETE PAVEMENT, 59 SY
			TOTAL	1 LUMP SUM

* NOTE: ANY SAWCUTS REQUIRED SHALL BE CONSIDERED INCIDENTAL

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SUMMARY OF QUANTITIES
SHEET 3 OF 13



DATE PREPARED
05-AUG-2021

ROUTE 1-55 STATE MO
DISTRICT SL SHEET NO. 3

COUNTY
ST. LOUIS CITY
JOB NO. J613149
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

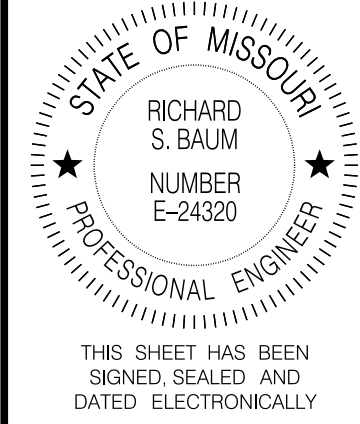
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
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DATE PREPARED
 18-AUG-2021
 ROUTE
 1-55 STATE
 MO
 DISTRICT SHEET NO.
 SL 3
 COUNTY
 ST. LOUIS CITY
 JOB NO.
 J613149
 CONTRACT ID.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SHEET	STAGE	STATION	STATION	LOCATION	ASPHALTIC CONCRETE MIXTURE					TACK	DESCRIPTION	
					BIT. CONC. MIX.							
					BP-1 (PG 64-22)	SP125C (PG 76-22)	SP125C (PG 64-22)	SP125BSM (PG 76-22)	SP190C (PG 64-22)			TON
57	-	634+25	635+65	I-55, LT.				129.0			130	DEPTH TRANSITION AT BRIDGE END
57	-	634+74	636+14	I-55, RT.				129.8			131	DEPTH TRANSITION AT BRIDGE END
57	-	638+50	639+90	I-55, LT.				129.1			130	DEPTH TRANSITION AT BRIDGE END
57	-	639+29	640+69	I-55, RT.				128.5			129	DEPTH TRANSITION AT BRIDGE END
58	-	677+81	679+21	I-55, RT.				130.1			131	DEPTH TRANSITION AT BRIDGE END
58	-	678+18	679+58	I-55, LT.				128.9			130	DEPTH TRANSITION AT BRIDGE END
58	-	681+95	683+35	I-55, RT.				131.1			132	DEPTH TRANSITION AT BRIDGE END
58	-	682+25	683+65	I-55, LT.				126.0			127	DEPTH TRANSITION AT BRIDGE END
60	-	691+38	692+04	I-55, LT.				55.4			56	DEPTH TRANSITION AT BRIDGE END
60	-	691+75	692+29	I-55, RT.				55.6			56	DEPTH TRANSITION AT BRIDGE END
60	-	691+75	693+05	I-55, RT.				54.9			55	DEPTH TRANSITION AT NB OFF RAMP
60	-	694+80	696+21	I-55, LT.				131.1			132	DEPTH TRANSITION AT BRIDGE END
60	-	694+96	696+37	I-55, RT.				129.5			130	DEPTH TRANSITION AT BRIDGE END
95-96	1	664+35	669+40	I-55, LT. & RT.		106.3				77.4	213	TEMPORARY WEDGING AT TEMPORARY CROSSOVER
100	1	721+10	726+00	I-55, LT. & RT.		103.2				75.1	207	TEMPORARY WEDGING AT TEMPORARY CROSSOVER
116	1A	605+21	606+52	I-55, LT.		4.6	5.3				9	INSIDE SHOULDER
116	1A	605+17	606+52	I-55, RT.		5.8	6.7				12	INSIDE SHOULDER
125-126	1B	543+86	546+56	I-55, LT.		27.0	30.9				54	OUTSIDE SHOULDER
125-126	1B	543+90	546+56	I-55, RT.		26.8	30.6				53	OUTSIDE SHOULDER
126	1B	548+80	551+55	I-55, LT.		26.7	30.5				53	OUTSIDE SHOULDER
126	1B	548+80	551+91	I-55, RT.		32.6	37.3				65	OUTSIDE SHOULDER
126	1B	554+26	556+65	I-55, LT.		23.3	26.6				46	OUTSIDE SHOULDER
126	1B	554+54	557+19	I-55, RT.		28.6	32.7				57	OUTSIDE SHOULDER
130	1B	600+38	603+02	I-55, LT.		25.9	29.6				52	OUTSIDE SHOULDER
130	1B	600+05	602+68	I-55, RT.		25.5	29.1				51	OUTSIDE SHOULDER
130	1B	605+85	608+53	I-55, LT.		21.0	24.0				42	OUTSIDE SHOULDER
130	1B	605+57	608+21	I-55, RT.		21.4	24.5				43	OUTSIDE SHOULDER
132	1B	635+44	636+04	I-55, LT.		1.7	0.7				3	OUTSIDE SHOULDER
132	1B	636+08	636+91	I-55, RT.		1.9	2.1				4	OUTSIDE SHOULDER
132	1B	637+53	638+74	I-55, LT.		4.2	4.8				8	OUTSIDE SHOULDER
132	1B	638+94	639+52	I-55, RT.		1.2	1.4				2	OUTSIDE SHOULDER
142-143	2	664+35	669+40	I-55, LT. & RT.	104.1						126	FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
147	2	721+20	726+00	I-55, LT. & RT.	99.0						120	FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
	1B			I-55, LT. & RT.		10.2						3/4" ASPHALT WEDGE FOR OUTSIDE SHOULDERS
				TOTAL	203.1	497.9	316.8	1459.0	152.5	2689		

SHEET	STATION	STATION	LOCATION	CONCRETE MATERIAL FOR FULL DEPTH PVM'T REPLACEMENT		DESCRIPTION
				TYPE 1 OR 5 AGGR. BASE (VAR. THICK) (PVM'T. REPAIR)		
				SY	SY	
62	602+15	603+03	I-55, LT.	58.7	59	PAVEMENT REPLACEMENT AT 4500 S. BROADWAY
			TOTAL	58.7	59	

* NOTE: SAWCUT & SUBGRADE COMPACTION SHALL BE CONSIDERED INCIDENTAL

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

CURBS						
SHEET	STATION	STATION	LOCATION	CURB & GUTTER TYPE B	CONCRETE CURB UNDER GUARDRAIL	REMARKS
				LF	LF	
29	546+37.21	546+56.21	I-55, LT.		19	4" CURB HEIGHT
29	546+38.21	546+56.21	I-55, RT.		18	4" CURB HEIGHT
29	548+80.67	548+98.28	I-55, RT.		18	4" CURB HEIGHT
29	548+83.84	549+02.25	I-55, LT.		18	4" CURB HEIGHT
29	551+34.86	551+55.05	I-55, LT.		20	4" CURB HEIGHT
29	551+81.40	551+91.56	I-55, RT.		10	4" CURB HEIGHT
29	554+25.71	554+36.10	I-55, LT.		10	4" CURB HEIGHT
29	554+53.83	554+64.21	I-55, RT.		11	4" CURB HEIGHT
33	602+49.59	602+67.59	I-55, RT.		18	4" CURB HEIGHT
33	602+92.56	603+02.56	I-55, LT.		10	4" CURB HEIGHT
33	605+56.72	605+72.37	I-55, RT.		16	4" CURB HEIGHT
33	605+84.39	609+09.54	I-55, LT.		318	CURB HEIGHT 4" UNDER CET & BATS, 6" MAX. UNDER GUARDRAIL
34	623+56.17	627+00.00	I-55, RT.		336	CURB HEIGHT 4" UNDER CET & BATS, 6" MAX. UNDER GUARDRAIL
35	627+00.00	636+13.96	I-55, RT.		907	CURB HEIGHT 4" UNDER CET & BATS, 6" MAX. UNDER GUARDRAIL
35	635+46.12	635+65.07	I-55, LT.		19	4" CURB HEIGHT
35	638+50.37	638+60.30	I-55, LT.		10	4" CURB HEIGHT
35	639+29.21	639+98.95	I-55, RT.		70	4" CURB HEIGHT
38	670+85.42	671+51.62	I-55, RT.		69	4" CURB HEIGHT
38	679+04.47	679+20.69	I-55, RT.		17	4" CURB HEIGHT
39	691+75.45	691+95.41	I-55, RT.		22	4" CURB HEIGHT
39	694+80.32	694+90.70	I-55, LT.		10	4" CURB HEIGHT
39	694+96.11	695+00.00	I-55, RT.		4	4" CURB HEIGHT
40	695+00.00	695+05.80	I-55, RT.		6	4" CURB HEIGHT
59	689+05		I-55, LT.	20		6" CURB HEIGHT
TOTAL				20	1956	

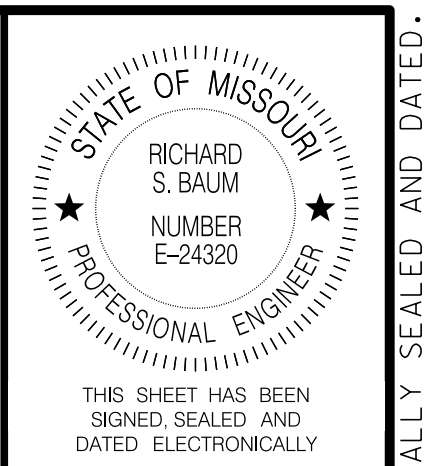
INLET TOP REPLACEMENT				
SHEET	STAGE	STATION	LOCATION	EACH
29 & 54	-	546+51	I-55, LT.	1
29 & 54	-	546+51	I-55, RT.	1
29 & 55	-	554+19	I-55, LT.	1
29 & 55	-	551+73	I-55, LT.	1
29 & 55	-	551+99	I-55, RT.	1
29 & 55	-	554+48	I-55, RT.	1
33 & 56	-	603+02	I-55, RT.	1
33 & 56	-	605+60	I-55, RT.	1
42 & 100	1	724+55	I-55, LT.	1
42 & 100	1	724+55	I-55, LT.	1
29 & 112	1A	551+74	I-55, RT.	1
29 & 126	1B	551+41	I-55, LT.	1
29 & 126	1B	551+99	I-55, RT.	1
29 & 126	1B	554+19	I-55, LT.	1
29 & 126	1B	556+28	I-55, LT.	1
33 & 130	1B	602+99	I-55, LT.	1
33 & 130	1B	606+10	I-55, LT.	1
42 & 147	2	724+55	I-55, LT.	1
42 & 147	2	724+55	I-55, LT.	1
TOTAL				19

EROSION CONTROL						
SHEET	STATION	STATION	LOCATION	SILT FENCE	SEDIMENT REMOVAL	REMARKS
				LF	CY	
54	548+41	548+78	I-55, LT	76	1	CATHODIC PROTECTION SYSTEM REMOVAL
55	551+57	551+94	I-55, LT	76	1	CATHODIC PROTECTION SYSTEM REMOVAL
56	604+85	605+21	I-55, RT	76	1	CATHODIC PROTECTION SYSTEM REMOVAL
TOTAL				228	3	

ITS TEMPORARY RELOCATIONS							
SHEET	STATION	STATION	LOCATION	BRIDGE NO.	BRIDGE LOCATION	MODOT ITS FACILITY TEMPORARY RELOCATION - A1085	REMARKS
						EACH	
293	685+17.30	691+06.84	I-55, LT.	A1085	2ND STREET	1	SEE JOB SPECIAL PROVISION FOR MORE DETAILS
TOTAL						1	

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SUMMARY OF QUANTITIES
 SHEET 5 OF 13



DATE PREPARED
05-AUG-2021
 ROUTE: **I-55** STATE: **MO**
 DISTRICT: **SL** SHEET NO.: **3**
 COUNTY:
ST. LOUIS CITY
 JOB NO.:
J613149
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

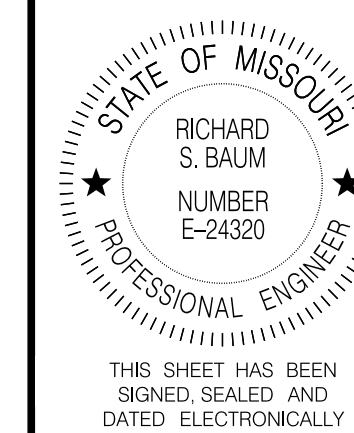
105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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COLDMILLING QUANTITIES

SHEET	STAGE	STATION	STATION	LOCATION	COLDMILLING BIT. PVMT. FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)	COLDMILLING BIT. PVMT. FOR REMOVAL OF SURFACING (GREATER THAN 3 IN. THICK)	COLDMILLING CONC. PVMT. FOR REMOVAL OF SURFACE	MODIFIED COLDMILLING (DEPTH TRANSITION)	DESCRIPTION
					SY	SY	SY	SY	
57		634+25	635+65	I-55, LT.	998				DEPTH TRANSITION AT BRIDGE END
57		634+74	636+14	I-55, RT.	1004				DEPTH TRANSITION AT BRIDGE END
57		638+50	639+90	I-55, LT.	999				DEPTH TRANSITION AT BRIDGE END
57		639+29	640+69	I-55, RT.	994				DEPTH TRANSITION AT BRIDGE END
58		677+81	679+21	I-55, RT.	1006				DEPTH TRANSITION AT BRIDGE END
58		678+18	679+58	I-55, LT.	997				DEPTH TRANSITION AT BRIDGE END
58		681+95	683+35	I-55, RT.	1014				DEPTH TRANSITION AT BRIDGE END
58		682+25	683+65	I-55, LT.	974				DEPTH TRANSITION AT BRIDGE END
60		691+38	692+04	I-55, LT.	428				DEPTH TRANSITION AT BRIDGE END
60		691+75	692+29	I-55, RT.	418				DEPTH TRANSITION AT BRIDGE END
60		691+75	693+05	I-55, RT.	364				DEPTH TRANSITION AT NB OFF RAMP
60		692+15	692+42	I-55, RT.			73		DEPTH TRANSITION AT BRIDGE END & NB OFF RAMP (SEE NOTE 7 ON SHEET 60)
60		694+80	696+21	I-55, LT.	1014				DEPTH TRANSITION AT BRIDGE END
60		694+96	696+37	I-55, RT.	1002				DEPTH TRANSITION AT BRIDGE END
95-96	1	664+35	669+40	I-55, LT. & RT.				972	TEMPORARY WEDGING AT TEMPORARY CROSSOVER
100	1	721+10	726+00	I-55, LT. & RT.				944	TEMPORARY WEDGING AT TEMPORARY CROSSOVER
116	1A	605+21	606+52	I-55, LT.		48			INSIDE SHOULDER
116	1A	605+17	606+52	I-55 RT.		61			INSIDE SHOULDER
125-126	1B	543+86	546+90	I-55, LT.		319			OUTSIDE SHOULDER
125-126	1B	543+90	546+90	I-55 RT.		315			OUTSIDE SHOULDER
126	1B	548+47	551+96	I-55, LT.		360			OUTSIDE SHOULDER
126	1B	548+45	552+60	I-55 RT.		461			OUTSIDE SHOULDER
126	1B	553+60	556+65	I-55, LT.		312			OUTSIDE SHOULDER
126	1B	554+15	557+19	I-55 RT.		343			OUTSIDE SHOULDER
130	1B	600+38	603+69	I-55, LT.		338			OUTSIDE SHOULDER
130	1B	600+05	603+10	I-55 RT.		309			OUTSIDE SHOULDER
130	1B	605+44	608+53	I-55, LT.		358			OUTSIDE SHOULDER
130	1B	604+92	608+21	I-55 RT.		282			OUTSIDE SHOULDER
132	1B	635+44	636+04	I-55, LT.		18			OUTSIDE SHOULDER
132	1B	636+08	636+91	I-55 RT.		20			OUTSIDE SHOULDER
132	1B	637+53	638+74	I-55, LT.		44			OUTSIDE SHOULDER
132	1B	638+94	639+52	I-55 RT.		13			OUTSIDE SHOULDER
142-143	2	664+35	669+40	I-55, LT. & RT.				1122	FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
147	2	721+20	726+00	I-55, LT. & RT.				1067	FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL
				TOTAL	11,210	3601	73	4105	



DATE PREPARED
05-AUG-2021

ROUTE **I-55** STATE **MO**
DISTRICT **SL** SHEET NO. **3**

COUNTY
ST. LOUIS CITY
JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

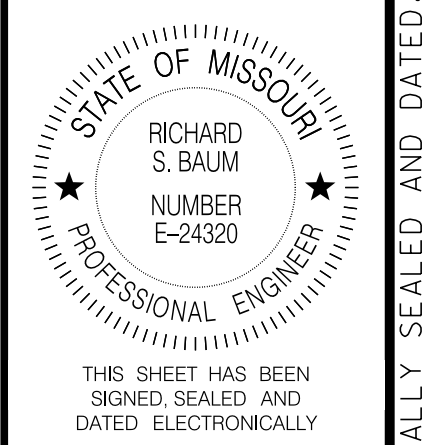
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
SHEET 6 OF 13

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BITUMINOUS SHOULDER RUMBLE STRIP						
SHEET	STAGE	STATION	STATION	LOCATION	LENGTH	DESCRIPTION
					STA	
57	-	634+25	635+65	I-55, LT.	2.8	OUTSIDE & INSIDE SHOULDERS
57	-	634+74	636+14	I-55, RT.	2.8	OUTSIDE & INSIDE SHOULDERS
57	-	638+50	639+90	I-55, LT.	2.8	OUTSIDE & INSIDE SHOULDERS
57	-	639+29	640+69	I-55, RT.	2.8	OUTSIDE & INSIDE SHOULDERS
58	-	677+81	679+21	I-55, RT.	2.8	OUTSIDE & INSIDE SHOULDERS
58	-	678+18	679+58	I-55, LT.	2.8	OUTSIDE & INSIDE SHOULDERS
58	-	681+95	683+35	I-55, RT.	2.8	OUTSIDE & INSIDE SHOULDERS
58	-	682+25	683+65	I-55, LT.	2.8	OUTSIDE & INSIDE SHOULDERS
60	-	691+38	692+04	I-55, LT.	1.3	OUTSIDE & INSIDE SHOULDERS
60	-	691+75	692+29	I-55, RT.	1.1	OUTSIDE & INSIDE SHOULDERS
60	-	691+75	693+05	I-55, RT.	2.6	OUTSIDE & INSIDE SHOULDERS
60	-	694+80	696+21	I-55, LT.	2.8	OUTSIDE & INSIDE SHOULDERS
60	-	694+96	696+37	I-55, RT.	2.8	OUTSIDE & INSIDE SHOULDERS
116	1A	605+21	606+52	I-55, LT.	1.3	OUTSIDE SHOULDER
116	1A	605+17	606+52	I-55 RT.	1.4	OUTSIDE SHOULDER
125-126	1B	543+86	546+90	I-55, LT.	3.0	OUTSIDE SHOULDER
125-126	1B	543+90	546+90	I-55 RT.	3.0	OUTSIDE SHOULDER
126	1B	548+47	551+96	I-55, LT.	3.5	OUTSIDE SHOULDER
126	1B	548+45	552+60	I-55 RT.	4.2	OUTSIDE SHOULDER
126	1B	553+60	556+65	I-55, LT.	3.1	OUTSIDE SHOULDER
126	1B	554+15	557+19	I-55 RT.	3.0	OUTSIDE SHOULDER
130	1B	600+38	603+69	I-55, LT.	3.3	OUTSIDE SHOULDER
130	1B	600+05	603+10	I-55 RT.	3.1	OUTSIDE SHOULDER
130	1B	605+44	608+53	I-55, LT.	3.1	OUTSIDE SHOULDER
130	1B	604+92	608+21	I-55 RT.	3.3	OUTSIDE SHOULDER
132	1B	635+44	636+04	I-55, LT.	0.6	OUTSIDE SHOULDER
132	1B	636+08	636+91	I-55 RT.	0.8	OUTSIDE SHOULDER
132	1B	637+53	638+74	I-55, LT.	1.2	OUTSIDE SHOULDER
32	1B	638+94	639+52	I-55 RT.	0.6	OUTSIDE SHOULDER
142-143	2	664+35	669+40	I-55, LT.	5.1	INSIDE SHOULDER
142-143	2	664+35	669+40	I-55, RT.	5.1	INSIDE SHOULDER
147	2	721+10	726+00	I-55, LT.	4.9	INSIDE SHOULDER
147	2	721+10	726+00	I-55, RT.	4.9	INSIDE SHOULDER
				TOTAL	91.5	

SLOPE PROTECTION MAINTENANCE							
SHEET	STATION	STATION	LOCATION	CRUSHED STONE (B)	PCCP JOINT/ CRACK SEALING	SLOPE PROTECTION	REMARKS
				TONS	LF	SY	
54	546+91	548+45	I-55, LT.		1000	33	
54	546+91	548+45	I-55, RT.		1000	67	
55	552+26	553+91	I-55, LT.		1000	167	
55	552+26	553+91	I-55, RT.		1000	150	
56	603+38	605+37	I-55, LT.		1000	72	
56	603+34	605+22	I-55, RT.		1000	28	
57	636+44	638+21	I-55, LT.		1000	12	
57	636+44	638+21	I-55, RT.		1000	7	
57	636+44	638+21	I-55, RT.	638.4		461	
58	679+21	679+87	I-55 RT			36.1	BETWEEN BARRIERS IN MEDIAN
58	679+58	679+94	I-55 LT			16.3	BETWEEN BARRIERS IN MEDIAN
58	679+93	681+60	I-55, LT.		1000	19	
58	679+93	681+60	I-55, LT.	42.0		28	
58	679+93	681+60	I-55, LT.	42.0		28	
58	679+93	681+60	I-55, RT.		1000	17	
58	681+70	681+95	I-55 RT			12.0	BETWEEN BARRIERS IN MEDIAN
58	681+75	682+45	I-55 LT			34.2	BETWEEN BARRIERS IN MEDIAN
59	684+44	685+03	I-55, LT.			28.8	BETWEEN BARRIERS IN MEDIAN
59	684+86	685+13	I-55, RT.			13.7	BETWEEN BARRIERS IN MEDIAN
59	691+13	691+38	I-55, LT.			12.3	BETWEEN BARRIERS IN MEDIAN
59	691+19	691+75	I-55, RT.			39.3	BETWEEN BARRIERS IN MEDIAN
59			I-55, LT. & RT.			55.6	APPROX. 500 SF
59			I-55, LT. & RT.	14.0			APPROX. 10 CY (ESTIMATED AT 1.4 T/CY)
59			I-55, LT. & RT.			55.6	APPROX. 500 SF
59			I-55, LT. & RT.	14.0			APPROX. 10 CY (ESTIMATED AT 1.4 T/CY)
59			I-55, LT. & RT.		1500		
59			I-55, LT. & RT.		1500		
59			I-55, LT. & RT.			8.3	APPROX. 75 SF
60	692+04	692+59	I-55 LT			38.2	BETWEEN BARRIERS IN MEDIAN
60	692+29	692+22	I-55 RT			16.8	BETWEEN BARRIERS IN MEDIAN
60	692+63	694+47	I-55, LT.		1000	347	
60	692+63	694+47	I-55, RT.		1000	183	
60	694+57	694+80	I-55 LT			15.9	BETWEEN BARRIERS IN MEDIAN
60	694+60	694+96	I-55 RT			20.0	BETWEEN BARRIERS IN MEDIAN
			TOTAL	750.4	15.000	2022.1	



DATE PREPARED
05-AUG-2021

ROUTE 1-55 STATE MO
DISTRICT SL SHEET NO. 3

COUNTY
ST. LOUIS CITY
JOB NO.
J613149
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
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SUMMARY OF QUANTITIES
SHEET 7 OF 13

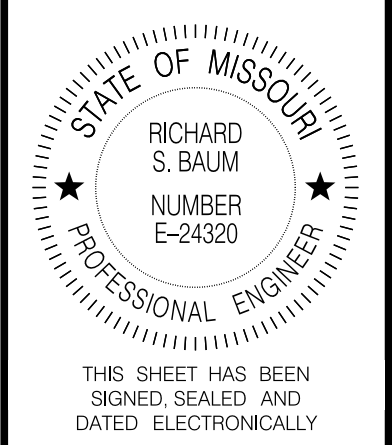
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REV.

GUARDRAIL

SHEET	STATION	STATION	LOCATION	MGS GUARDRAIL	MGS GUARDRAIL • 8 FT. POSTS, 6 FT.-3 IN. SPACING	MGS BRIDGE APPROACH TRANSITION SECTION (EXTENDED CURB)	MGS CONCRETE BARRIER TRANSITION (THREE BEAM RAIL)	MGS END ANCHOR	CRASHWORTHY END TERMINAL		SHAPING SLOPES, CLASS III	REMARKS
				LF	LF	EACH	LF	EACH	TYPE A (MASH)	TYPE E (MASH)	EACH	
29	544+23.32	544+73.31	I-55, RT.							1	1.0	
29	544+73.31	546+48.31	I-55, RT.	175								
29	545+60.62	545+73.12	I-55, LT.					1				
29	545+73.12	546+48.12	I-55, LT.	75								
29	546+48.12	546+85.81	I-55, LT.			1						
29	546+48.31	546+85.81	I-55, RT.			1						
29	548+51.70	548+88.39	I-55, RT.			1						
29	548+53.54	548+91.88	I-55, LT.			1						
29	548+88.39	552+16.65	I-55, RT.	336								
29	548+91.88	551+45.94	I-55, LT.	248								
29	551+45.94	551+84.29	I-55, LT.			1						
29	552+16.65	552+53.33	I-55, RT.			1						
29	553+66.96	554+05.31	I-55, LT.			1						
29	554+05.31	555+84.32	I-55, LT.	175								
29	555+84.32	556+35.47	I-55, LT.						1	1.0		
33	600+34.11	600+84.87	I-55, RT.						1	1.0		
33	600+84.87	602+59.87	I-55, RT.		175							
33	601+88.02	602+00.52	I-55, LT.					1				
33	602+00.52	603+25.52	I-55, LT.		125							
33	602+59.87	602+97.37	I-55, RT.			1						
33	603+25.52	603+63.02	I-55, LT.			1						
33	604+97.02	605+33.87	I-55, RT.			1						
33	605+33.87	606+07.24	I-55, RT.	75								
33	605+54.16	605+92.51	I-55, LT.			1						
33	605+92.51	607+96.98	I-55, LT.		200							
33	606+07.24	606+19.74	I-55, RT.					1				
33	607+96.98	608+48.13	I-55, LT.						1	1.0		
34	624+17.59	624+68.78	I-55, RT.						1	1.0		
34	624+68.78	627+00.00	I-55, RT.	226								
34	625+42.44	625+54.94	I-55, LT.					1				
34	625+54.94	627+00.00	I-55, LT.	148								
35	627+00.00	636+43.98	I-55, RT.	937								
35	627+00.00	635+56.19	I-55, LT.	864								
35	635+56.19	635+93.68	I-55, LT.			1						
35	636+43.98	636+81.47	I-55, RT.			1						
35	637+59.36	637+96.78	I-55, LT.			1						
35	637+96.78	640+58.95	I-55, LT.	263								
35	639+05.19	639+42.67	I-55, RT.			1						
35	639+42.67	641+00.00	I-55, RT.	158								
35	640+11.06	640+23.56	I-55, LT.					1				ALONG LEFT SIDE RAMP 17
35	640+23.56	640+60.50	I-55, LT.	38								ALONG LEFT SIDE RAMP 17
35	640+58.95	641+08.95	I-55, LT.						1	1.0		
35	640+60.50	641+09.42	I-55, LT.						1	1.0		ALONG LEFT SIDE RAMP 17
36	641+00.00	647+92.43	I-55, RT.	692								
36	647+92.43	648+04.93	I-55, RT.					1				
38	670+93.77	671+41.99	I-55, RT.						1	1.0		
38	671+41.99	679+14.04	I-55, RT.	800								
38	679+14.04	679+50.35	I-55, RT.			1						
39	691+50.18	691+85.66	I-55, RT.			1						ALONG RIGHT SIDE RAMP 21
39	691+85.66	693+63.55	I-55, RT.	300								ALONG RIGHT SIDE RAMP 21
39	692+13.55	692+35.80	I-55, RT.							1		
39	692+39.75	693+16.88	I-55, RT.				138					ALONG LEFT SIDE RAMP 21
39	693+16.88	694+15.85	I-55, RT.	213								ALONG LEFT SIDE RAMP 21
39	693+63.55	693+76.05	I-55, RT.					1				ALONG RIGHT SIDE RAMP 21
39	694+15.85	694+28.35	I-55, RT.					1				ALONG LEFT SIDE RAMP 21
39	694+33.14	694+72.09	I-55, LT.			1						
39	694+72.09	695+00.00	I-55, LT.	27								
40	695+00.00	696+27.18	I-55, LT.	123								
40	696+27.18	696+77.78	I-55, LT.						1	1.0		
			TOTAL	5873	500	18	138	8	9	1	9	

DISCLAIMER
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DATE PREPARED
05-AUG-2021

ROUTE 1-55 STATE MO
 DISTRICT SL SHEET NO. 3

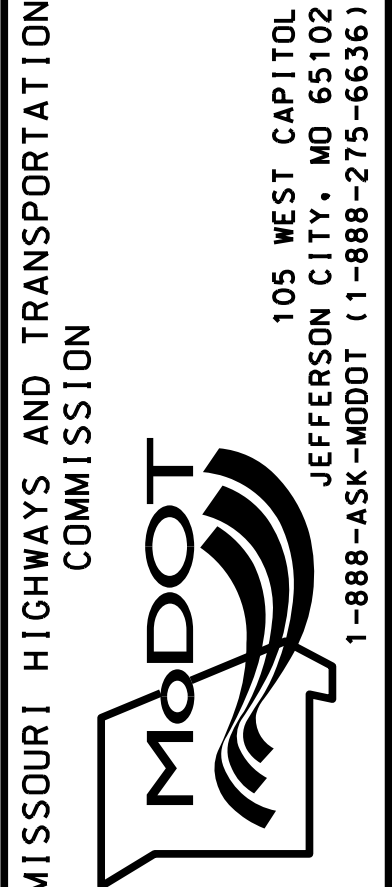
COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

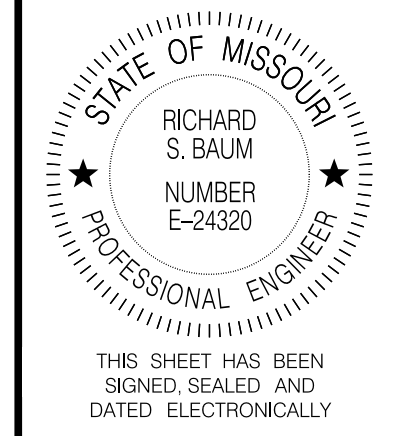
SUMMARY OF QUANTITIES
 SHEET 8 OF 13

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

CONCRETE TRAFFIC BARRIER AND CONCRETE MEDIAN STRIP								
SHEET	STATION	STATION	LOCATION	CONCRETE TRAFFIC BARRIER			6 IN. CONCRETE MEDIAN STRIP	REMARKS
				TYPE B LF	TYPE C LF	TYPE D LF		
27	521+12.57	530+00.00	I-55, CL		887			
28	530+00.00	544+00.00	I-55, CL		1400			
28	531+74.45						6.1	
28	539+99.37						6.1	
29	544+00.00	546+71.21	I-55, CL		271			
29	548+67.21	552+06.32	I-55, CL		339			
29	554+10.70	558+00.00	I-55, CL		389			
30	558+00.00	572+00.00	I-55, CL		1400			
30	559+73.45						6.1	
30	570+20.40						6.1	
31	572+00.00	580+21.50	I-55, CL		822			
31	581+01.21	586+00.00	I-55, CL		499			
32	586+00.00	600+00.00	I-55, CL		1400			
32	590+78.13						5.5	
32	596+02.68						5.5	
33	600+00.00	603+13.56	I-55, CL		314			
33	605+42.36	611+33.85	I-55, CL		591			
35	636+13.97	636+28.61	I-55, CL		15			
35	638+34.06	638+50.35	I-55, CL		16			
37	664+35.00	669+00.00	I-55, CL		465			
38	669+00.00	669+40.00	i-55, CL		40			
38	679+20.67	679+68.39	I-55, CL (RT.)			48		
38	679+58.35	679+77.10	i-55, CL (LT.)			19		
38	679+58.35	680+14.30	I-55, LT.			54		
38	681+52.79	681+95.29	I-55, RT.			44		
38	681+77.10	681+95.29	I-55, CL (RT.)			18		
38	681+83.54	682+00.00	I-55, CL (LT.)			16		
39	682+00.00	682+25.51	i-55, CL (LT.)			25		
39	682+09.98	682+25.45	I-55, LT.			15		
39	684+43.76	684+59.23	I-55, LT.			15		
39	684+43.76	684+93.29	I-55, CL (LT.)			50		
39	684+85.88	685+00.80	I-55, CL (RT.)			15		
39	684+85.88	685+31.61	I-55, RT.			47		
39	690+95.64	691+38.40	I-55, LT.			41		
39	691+23.35	691+38.41	I-55, CL (LT.)			15		
39	691+30.28	691+75.44	I-55, CL (RT.)			45		
39	692+04.08	692+19.64	I-55, LT.			15		
39	692+04.19	692+40.87	I-55, CL (LT.)			37		
39	692+30.37	692+45.32	I-55, CL (RT.)			15		
39	692+35.70	692+62.75	I-55, RT.	28				
39	692+35.70	692+40.22	I-55, RT.	6				
39	694+65.40	694+80.46	I-55, CL (LT.)			15		
39	694+68.74	694+96.28	I-55, CL (RT.)			28		
42	721+10.00	726+00.00	I-55, CL		490			
			TOTAL	34	9338	577	35.4	

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DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **3**
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

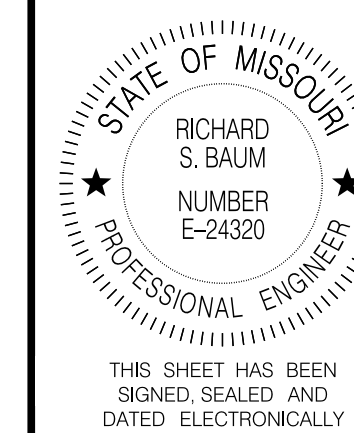
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

SUMMARY OF QUANTITIES
 SHEET 9 OF 13



THIS SHEET HAS BEEN
SIGNED SEALED AND
DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE **I-55** STATE **MO**
DISTRICT **SL** SHEET NO. **3**

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

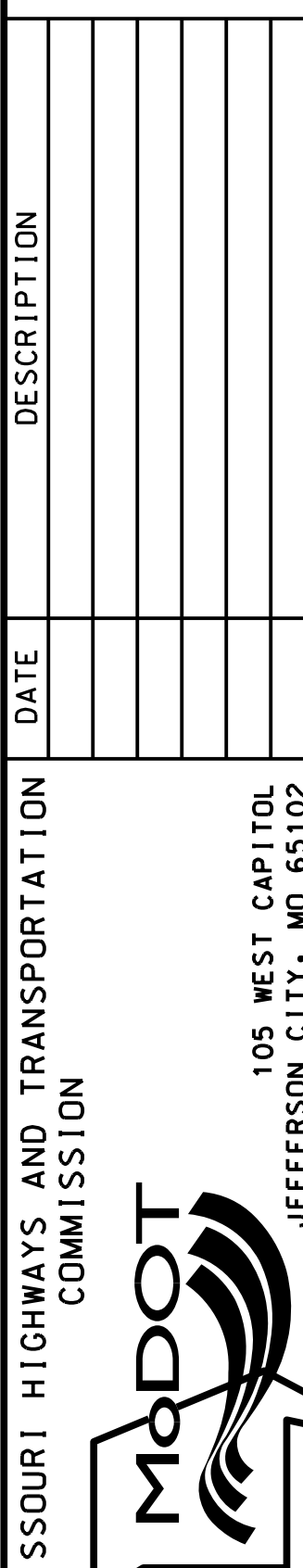
PROJECT NO.

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DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

REVISIONS

JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
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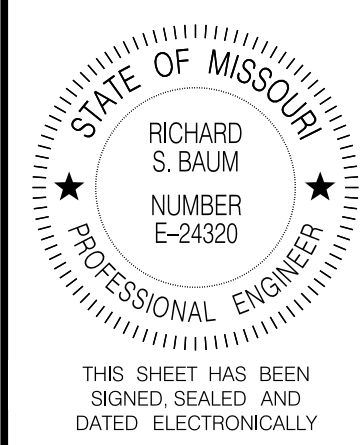
PERMANENT PAVEMENT MARKING									
SHEET	STATION	STATION	OFFSET	LOCATION	HIGH BUILD WATERBORNE PAINT, TYPE L BEADS				
					6" SOLID WHITE	6" INTER. WHITE	6" DOTTED WHITE	12" SOLID WHITE	6" SOLID YELLOW
					LF	LF	LF	LF	LF
294	504+80	513+20	18' RT.	I-55 MAIN		210			
294	530+00	538+40	18' RT.	I-55 MAIN		210			
294	545+10	555+39	6' RT.	I-55 MAIN					1029
294	542+10	558+96	18' RT.	I-55 MAIN		422			
294	538+50	562+60	30' RT.	I-55 MAIN		603			
294	538+50	562+60	42' RT.	I-55 MAIN		603			
294	543+90	557+19	54' RT.	I-55 MAIN	1329				
294	545+70	555+10	6' LT.	I-55 MAIN					940
294	545+70	555+10	18' LT.	I-55 MAIN		235			
294	543+86	556+74	30' LT.	I-55 MAIN		322			
294	543+86	556+70	42' LT.	I-55 MAIN		321			
294	543+86	556+65	54' LT.	I-55 MAIN	1279				
294	562+19	565+76	18' LT.	I-55 MAIN		89			
294	562+19	569+40	30' LT.	I-55 MAIN		180			
294	565+79	569+40	42' LT.	I-55 MAIN		90			
294	594+82	613+52	42' RT.	I-55 MAIN		468			
294	594+82	613+52	30' RT.	I-55 MAIN		468			
294	598+61	610+57	18' RT.	I-55 MAIN		299			
294	601+63	606+71	6' RT.	I-55 MAIN					508
294	602+17	606+52	6' LT.	I-55 MAIN					435
294	599+45	608+53	18' LT.	I-55 MAIN		227			
294	613+72	618+96	18' LT.	I-55 MAIN		131			
294	594+98	608+53	30' LT.	I-55 MAIN		339			
294	613+73	618+96	30' LT.	I-55 MAIN		131			
294	594+98	608+53	42' LT.	I-55 MAIN		339			
294	617+81	618+96	42' LT.	I-55 MAIN		29			
294	600+38	608+53	54' LT.	I-55 MAIN	815				
294	622+33	630+73	18' RT.	I-55 MAIN		210			
294	622+68	646+80	30' RT.	I-55 MAIN		603			
294	600+05	607+92	54' RT.	I-55 MAIN	787				
				SUBTOTAL 1	4,210	6,529	0	0	2,912

PERMANENT PAVEMENT MARKING (CONT.)									
SHEET	STATION	STATION	OFFSET	LOCATION	HIGH BUILD WATERBORNE PAINT, TYPE L BEADS				
					6" SOLID WHITE	6" INTER. WHITE	6" DOTTED WHITE	12" SOLID WHITE	6" SOLID YELLOW
					LF	LF	LF	LF	LF
294	636+08	639+52	54' RT.	I-55 MAIN	344				
294	636+30	639+38	6' RT.	I-55 MAIN					308
294	632+63	643+00	18' RT.	I-55 MAIN		259			
294	635+14	638+97	6' LT.	I-55 MAIN					383
294	631+54	642+56	18' LT.	I-55 MAIN		276			
294	627+64	646+03	30' LT.	I-55 MAIN		460			
294	627+64	638+74	42' LT.	I-55 MAIN		278			
294	635+43	638+74	54' LT.	I-55 MAIN	331				
294	642+51	646+03	42' LT.	I-55 MAIN			88		
294	642+68	646+03	54' LT.	I-55 MAIN				335	
294	647+55	655+95	30' RT.	I-55 MAIN		210			
294	665+76	726+01	12' RT.	I-55 MAIN					6025
294	665+03	726+01	24' RT.	I-55 MAIN		1525			
294	663+12	665+76	36' RT.	I-55 MAIN		66			
294	663+10	726+01	48' RT.	I-55 MAIN		1573			
294	664+35	726+01	8' LT.	I-55 MAIN					6166
294	664+35	730+02	20' LT.	I-55 MAIN		1642			
294	726+42	742+02	34' LT.	I-55 MAIN		390			
294	664+35	733+62	46' LT.	I-55 MAIN		1732			
294	679+21	681+92	36' RT.	I-55 MAIN		68			
294	679+21	681+92	60' RT.	I-55 MAIN	271				
294	679+63	682+25	36' LT.	I-55 MAIN		66			
294	679+63	682+25	60' LT.	I-55 MAIN	262				
294	684+86	696+36	36' RT.	I-55 MAIN		288			
294	684+86	691+73	60'-72' RT.	I-55 MAIN	687			75	75
294	687+98	696+36	60' RT.	I-55 MAIN, RAMP	463				
294	691+32	691+73	60' RT.	I-55 MAIN, RAMP					41
294	684+43	691+38	34' LT.	I-55 MAIN		174			
294	692+04	696+22	34' LT.	I-55 MAIN		105			
294	684+43	696+22	58'-70' LT.	I-55 MAIN	1179				
294	693+75	696+22	58' LT.	I-55 MAIN			62		
				SUBTOTAL 2	3,193	9,112	225	451	12,882
				TOTAL		23,269		451	18,706

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SUMMARY OF QUANTITIES
SHEET 10 OF 13

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE 1-55 STATE MO

DISTRICT SL SHEET NO. 3

COUNTY ST. LOUIS CITY

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

JACOBS ENGINEERING GROUP

501 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

JACOBS

REVISIONS

REV.

TEMPORARY PAVEMENT MARKINGS

STAGE	SHEET	STATION	STATION	LOCATION	WATERBORNE PAINT, TYPE P BEADS				
					6" SOLID WHITE	6" INTER. WHITE	6" DOTTED WHITE	12" SOLID WHITE	6" SOLID YELLOW
					LF	LF	LF	LF	LF
1	095	655+00	669+00	N.B. I-55	995			300	595
1	095	655+00	669+00	S.B. I-55		121			
1	096	669+00	682+00	N.B. I-55	1295	320			30
1	096	669+00	682+00	S.B. I-55		318			
1	097	682+00	695+00	N.B. I-55	1295	321			
1	097	682+00	695+00	S.B. I-55		318			
1	098	695+00	708+00	N.B. I-55	1305	326			
1	098	695+00	708+00	S.B. I-55		329			
1	099	708+00	721+00	N.B. I-55	1305	326			
1	099	708+00	721+00	S.B. I-55		329			
1	100	721+00	735+00	N.B. I-55	1000	3			495
1	100	721+00	735+00	S.B. I-55		106			
1A	111	530+00	544+00	N.B. I-55	1100				550
1A	112	544+00	558+00	N.B. I-55	1350	179			1405
1A	112	544+00	558+00	S.B. I-55	495	174			400
1A	113	558+00	572+00	N.B. I-55	935				465
1A	113	558+00	572+00	S.B. I-55	1425		112		715
1A	115	586+00	600+00	N.B. I-55	1020				515
1A	115	586+00	600+00	S.B. I-55	1020				510
1A	116	600+00	613+00	N.B. I-55	2200	51			1310
1A	116	600+00	613+00	S.B. I-55	915	49			650
1A	117	613+00	627+00	N.B. I-55	105				55
1A	117	613+00	627+00	S.B. I-55	1240		50	145	720
1A	118	627+00	641+00	N.B. I-55	1960	58			1230
1A	118	627+00	641+00	S.B. I-55	2480	51			1340
1A	119	641+00	655+00	N.B. I-55	1160				580
1A	119	641+00	655+00	S.B. I-55	1005			360	505
1B	125	530+00	544+00	N.B. I-55	30				10
1B	125	530+00	544+00	S.B. I-55	30				10
1B	126	544+00	558+00	N.B. I-55	2530	370			595
1B	126	544+00	558+00	S.B. I-55	2410	339			580
1B	130	600+00	613+00	N.B. I-55	2040	106			615
1B	130	600+00	613+00	S.B. I-55	2015	104			620
1B	132	627+00	641+00	N.B. I-55	475	53			140
1B	132	627+00	641+00	S.B. I-55	450	53			120
				SUBTOTAL 1	35.585	4.404	50	917	14.760

NOTE: INCLUDED IN LUMP SUM TRAFFIC CONTROL

TEMPORARY PAVEMENT MARKINGS (CONT.)

STAGE	SHEET	STATION	STATION	LOCATION	WATERBORNE PAINT, TYPE P BEADS				
					6" SOLID WHITE	6" INTER. WHITE	6" DOTTED WHITE	12" SOLID WHITE	6" SOLID YELLOW
					LF	LF	LF	LF	LF
2	142	655+00	669+00	N.B. I-55		115			
2	142	655+00	669+00	S.B. I-55	935				470
2	143	669+00	682+00	N.B. I-55		334			
2	143	669+00	682+00	S.B. I-55	1345	319			40
2	144	682+00	695+00	N.B. I-55		330			
2	144	682+00	695+00	S.B. I-55	1295	326			
2	145	695+00	708+00	N.B. I-55		324			
2	145	695+00	708+00	S.B. I-55	1305	326			
2	146	708+00	721+00	N.B. I-55		321			
2	146	708+00	721+00	S.B. I-55	1295	324			
2	147	721+00	735+00	N.B. I-55		125			
2	147	721+00	735+00	S.B. I-55	2575			325	1215
				SUBTOTAL 2	8.750	2.844	0	325	1.725
				TOTAL		51.633		1.242	16.485

NOTE: INCLUDED IN LUMP SUM TRAFFIC CONTROL

PAVEMENT MARKING REMOVAL

SHEET	ROADWAY	LOCATION	PERM. EXISTING	TEMP. PAINT	REMARKS
			LF	LF	
95-100	I-55	NB & SB	10,996		PRIOR TO STAGE 1
142-147	I-55	NB & SB	8,563	1,128	PRIOR TO STAGE 2
95-100 142-147	I-55	NB & SB		23,948	AFTER STAGE 2
111-119	I-55	NB & SB	8,945		PRIOR TO STAGE 1A
125-132	I-55	NB & SB	7,485	18,664	PRIOR TO STAGE 1B
111-119 125-132	I-55	NB & SB		25,620	AFTER STAGE 1B
		SUBTOTAL	35,989	69,360	
		TOTAL		105,349	

NOTE: INCLUDED IN LUMP SUM TRAFFIC CONTROL

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SUMMARY OF QUANTITIES SHEET 11 OF 13

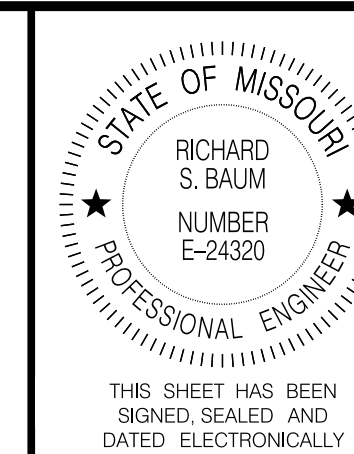
TEMPORARY TRAFFIC BARRIER

SHEET	STATION	STATION	ROADWAY	LOCATION	STAGE	FREE STANDING	ANCHORED	STIFFNESS TRANSITION	RELOCATE ANCHORED	14 BARREL IMPACT ATTENUATOR	RELOCATE 14 BARREL IMPACT ATTENUATOR	REPLACEMENT SAND BARREL	REMARKS
						LF	LF	LF	LF	EACH	EACH	EACH	
095	664+35	669+00	I-55	SB	1	465							
095	667+10	669+00	I-55	SB	1			190					
096	671+38	676+00	I-55	NB	1	462							8:1 TAPER RATE
096	669+00	669+23	I-55	SB	1			23		1			
096	669+23	682+00	I-55	NB & SB	1		1277						
097	682+00	695+00	I-55	NB & SB	1		1300						
098	695+00	708+00	I-55	NB & SB	1		1300						
099	708+00	721+00	I-55	NB & SB	1		1300						
099	717+89	721+00	I-55	NB	1		311						
100	721+00	721+10	I-55	SB	1		10						
100	721+00	726+00	I-55	NB	1		500						
100	721+10	723+23	I-55	SB	1			213					
100	723+23	728+50	I-55	SB	1	525				2			8:1 TAPER RATE
112	546+84	556+09	I-55	SB	1A		925			1			8:1 TAPER RATE
112	544+61	554+24	I-55	NB	1A		963			1			8:1 TAPER RATE
116	603+50	607+63	I-55	SB	1A		413			1			8:1 TAPER RATE
116	601+24	605+24	I-55	NB	1A		400			1			8:1 TAPER RATE
118	636+04	639+92	I-55	SB	1A		388			1			8:1 TAPER RATE
118	634+67	639+05	I-55	NB	1A		438			1			8:1 TAPER RATE
126	546+84	554+97	I-55	SB	1B				813		1		8:1 TAPER RATE
126	545+41	554+16	I-55	NB	1B				875		1		8:1 TAPER RATE
130	603+37	606+50	I-55	SB	1B				313		1		8:1 TAPER RATE
130	602+09	605+22	I-55	NB	1B				313		1		8:1 TAPER RATE
132	636+04	639+92	I-55	SB	1B				388		1		8:1 TAPER RATE
132	634+13	638+76	I-55	NB	1B				463		1		8:1 TAPER RATE
142	661+77	667+27	I-55	NB	2	550				2			8:1 TAPER RATE
142	667+27	669+00	I-55	NB	2			173					
143	669+00	669+40	I-55	NB	2			40					
143	669+40	682+00	I-55	NB & SB	2		1260						
144	682+00	695+00	I-55	NB & SB	2		1300						
145	695+00	708+00	I-55	NB & SB	2		1300						
146	712+65	717+65	I-55	SB	2	500				1			8:1 TAPER RATE
146	708+00	721+00	I-55	NB & SB	2		1300						
147	721+00	721+13	I-55	NB & SB	2			13					
147	721+13	723+26	I-55	NB	2			213					
147	723+26	726+01	I-55	NB	2	275							
105-134	544+60	597+40	I-55	NB & SB	1A & 1B	10560				2			
105-134	597+40	613+00	I-55	NB & SB	1A & 1B	3120					2		
					TOTAL	16,457	14,698	852	3,165	15	8	15	

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SUMMARY OF QUANTITIES
SHEET 12 OF 13



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 3

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

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Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

TEMPORARY TRAFFIC CONTROL - 1.0 LUMP SUM

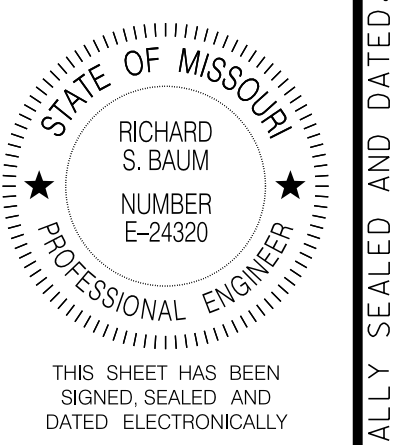
SIGN SIZE (SQ. FT.)	TEMPORARY TRAFFIC CONTROL - 1.0 LUMP SUM																																																	
	GO20-50P: WORK ZONE PLAQUE	W01-4BL: DOUBLE ARROW REVERSE CURVE (LEFT)	W01-4BR: DOUBLE ARROW REVERSE CURVE (RIGHT)	W01-4CL: TRIPLE ARROW REVERSE CURVE (LEFT)	W01-4CR: TRIPLE ARROW REVERSE CURVE (RIGHT)	W020-1: ROAD/BRIDGE/RAMP WORK AHEAD	W020-5a: 2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD	W020-5: RIGHT/CENTER/LEFT LANE CLOSED AHEAD	W020-6a: RIGHT/CENTER/LEFT LANE CLOSED	W04-10R: MERGE RIGHT	W04-10L: MERGE LEFT	W05-1: ROAD NARROWS	W05-5: NARROW LANES	R2-1: SPEED LIMIT 50	R2-1: SPEED LIMIT 60	R11-2: ROAD CLOSED	R11-4: ROAD CLOSED TO THRU TRAFFIC	E05-1: GORE EXIT	W020-3: ROAD CLOSED AHEAD	W020-2: DETOUR AHEAD	M04-8a: END DETOUR	SPECIAL: DETOUR I-55 SOUTH LEFT ARROW	SPECIAL: DETOUR I-55 SOUTH RIGHT ARROW	SPECIAL: DETOUR I-55 SOUTH STRAIGHT ARROW	SPECIAL: EXIT 206B & 206C CLOSED/USE EXIT 206A	SPECIAL: EXIT 206B & 206C/USE EXIT 207A	SPECIAL: 2ND ST	SPECIAL: ARSENAL ST	SPECIAL: S BROADWAY AVE	SPECIAL: DETOUR (STRAIGHT)	SPECIAL: DETOUR (45 DEGREE RIGHT)	M04-9L: DETOUR (LEFT)	M04-9R: DETOUR (RIGHT)	SPECIAL: REGIONAL SIGNING - I-55 SOUTH USE I-44	ADVANCE WARNING RAIL SYSTEM	TYPE 3 MOVABLE BARRICADES	TRIMLINE CHANNELIZER	DIRECTION INDICATOR BARRICADE	SEQUENTIAL FLASHING WARNING LIGHT	FLASHING ARROW PANEL	LONG TERM RUMBLE STRIPS	6' CHAIN LINK FENCE	ORANGE CONSTRUCTION FENCE							
	6	16	16	16	16	16	16	16	16	16	16	16	16	12	12	10	13	12	9	9	3	20	20	20	64	64	4	4	4	5	5	5	5	72	--	--	--	--	--	--	--	--	--	--	--	--	--			
I-55 STAGE 1	4	2	2			13	4	2	4	4			7	4	2	2		1																		1	4		172	55	55	4	8	205	630					
I-55 STAGE 1A	2	16	12			8	2	2	2		16		2					6																		2	480	28	28	2	8									
I-55 STAGE 1B	2	2	4	6	10	2	4	2	2		6	6	2	1																					2	238	28	28	1	8										
I-55 STAGE 2		4	2			1						4					2	1																	4	202	55	55			8									
STAGE 1 DETOUR - 3200 S BROADWAY & ARSENAL ST. NB I-55 OFF RAMP																				2						1	1				13	13	4	5			4													
STAGE 2 DETOUR - ARSENAL ST. & CHEROKEE ST. SB I-55 ON RAMP																				4		1	5	3	11										6															
STAGE 1 & 2 DETOUR - 2ND ST																	2	1																																
STAGES 1A & 1B						4		4	2		2											2						12									9													

TEMPORARY TRAFFIC CONTROL			
TRAFFIC CONTROL PLAN	STAGE	NTCIP COMPLIANT CHANGEABLE MESSAGE SIGN	TRUCK MOUNTED ATTENUATOR
		EACH	EACH
I-55 STAGE 1	1		3
STAGE 1 DETOUR - 3200 S BROADWAY & ARSENAL ST. NB I-55 OFF RAMP	1	4	
I-55 STAGE 1A	1A		
I-55 STAGE 1B	1B		
I-55 STAGE 2	2		
STAGE 2 DETOUR - ARSENAL ST. & CHEROKEE ST. SB I-55 ON RAMP	2		
STAGE 1 & 2 DETOUR - 2ND ST CLOSURE	1 & 2	4	
I-55 STAGE 1A & 1B	1A & 1B		2
TOTAL		8	5

NOTE: ITEMS NOT INCLUDED IN LUMP SUM TRAFFIC CONTROL

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SUMMARY OF QUANTITIES
 SHEET 13 OF 13



DATE PREPARED
 12-OCT-2021

ROUTE 1-55 STATE MO
 DISTRICT SL SHEET NO. 3

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149

CONTRACT ID.

PROJECT NO.

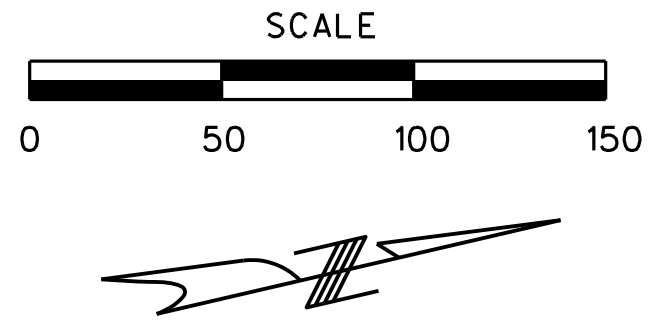
BRIDGE NO.

DATE	DESCRIPTION

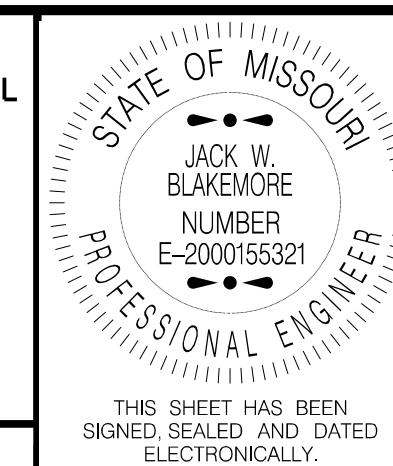
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 4

COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

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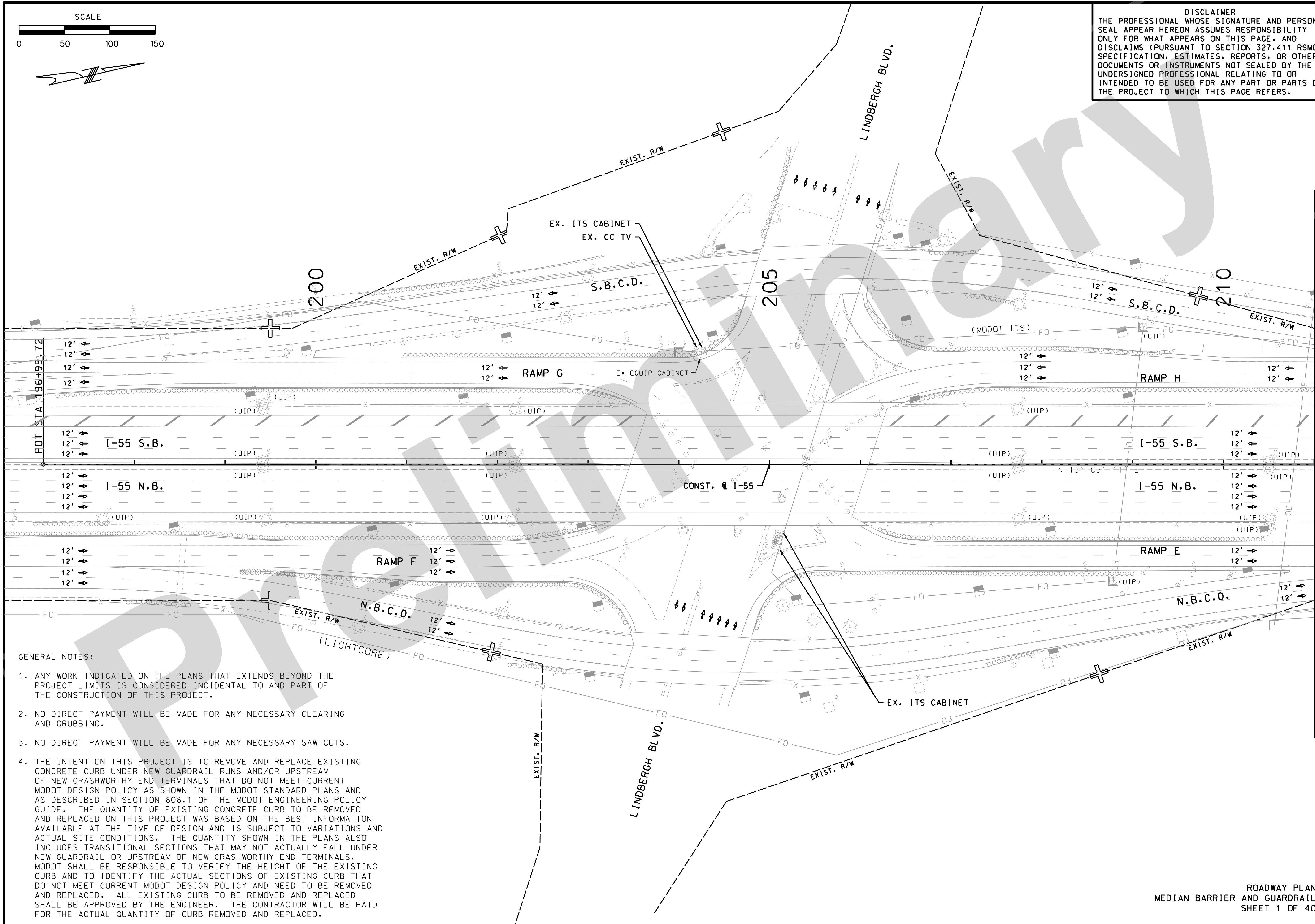
ONE MEMORIAL DRIVE, SUITE 500

ST. LOUIS, MO 63102 (314) 436-5500

ENGINEERING CORPORATION - 000631

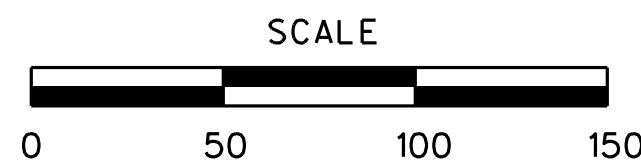
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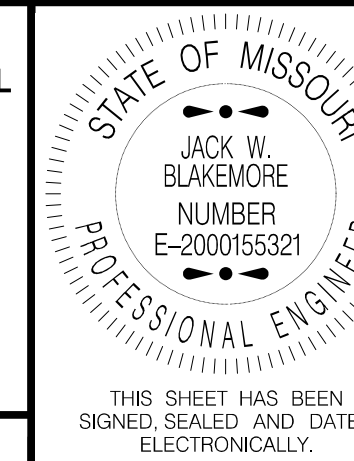


- GENERAL NOTES:
1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.
 2. NO DIRECT PAYMENT WILL BE MADE FOR ANY NECESSARY CLEARING AND GRUBBING.
 3. NO DIRECT PAYMENT WILL BE MADE FOR ANY NECESSARY SAW CUTS.
 4. THE INTENT ON THIS PROJECT IS TO REMOVE AND REPLACE EXISTING CONCRETE CURB UNDER NEW GUARDRAIL RUNS AND/OR UPSTREAM OF NEW CRASHWORTHY END TERMINALS THAT DO NOT MEET CURRENT MODOT DESIGN POLICY AS SHOWN IN THE MODOT STANDARD PLANS AND AS DESCRIBED IN SECTION 606.1 OF THE MODOT ENGINEERING POLICY GUIDE. THE QUANTITY OF EXISTING CONCRETE CURB TO BE REMOVED AND REPLACED ON THIS PROJECT WAS BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN AND IS SUBJECT TO VARIATIONS AND ACTUAL SITE CONDITIONS. THE QUANTITY SHOWN IN THE PLANS ALSO INCLUDES TRANSITIONAL SECTIONS THAT MAY NOT ACTUALLY FALL UNDER NEW GUARDRAIL OR UPSTREAM OF NEW CRASHWORTHY END TERMINALS. MODOT SHALL BE RESPONSIBLE TO VERIFY THE HEIGHT OF THE EXISTING CURB AND TO IDENTIFY THE ACTUAL SECTIONS OF EXISTING CURB THAT DO NOT MEET CURRENT MODOT DESIGN POLICY AND NEED TO BE REMOVED AND REPLACED. ALL EXISTING CURB TO BE REMOVED AND REPLACED SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL QUANTITY OF CURB REMOVED AND REPLACED.

ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 1 OF 40



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 5

COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

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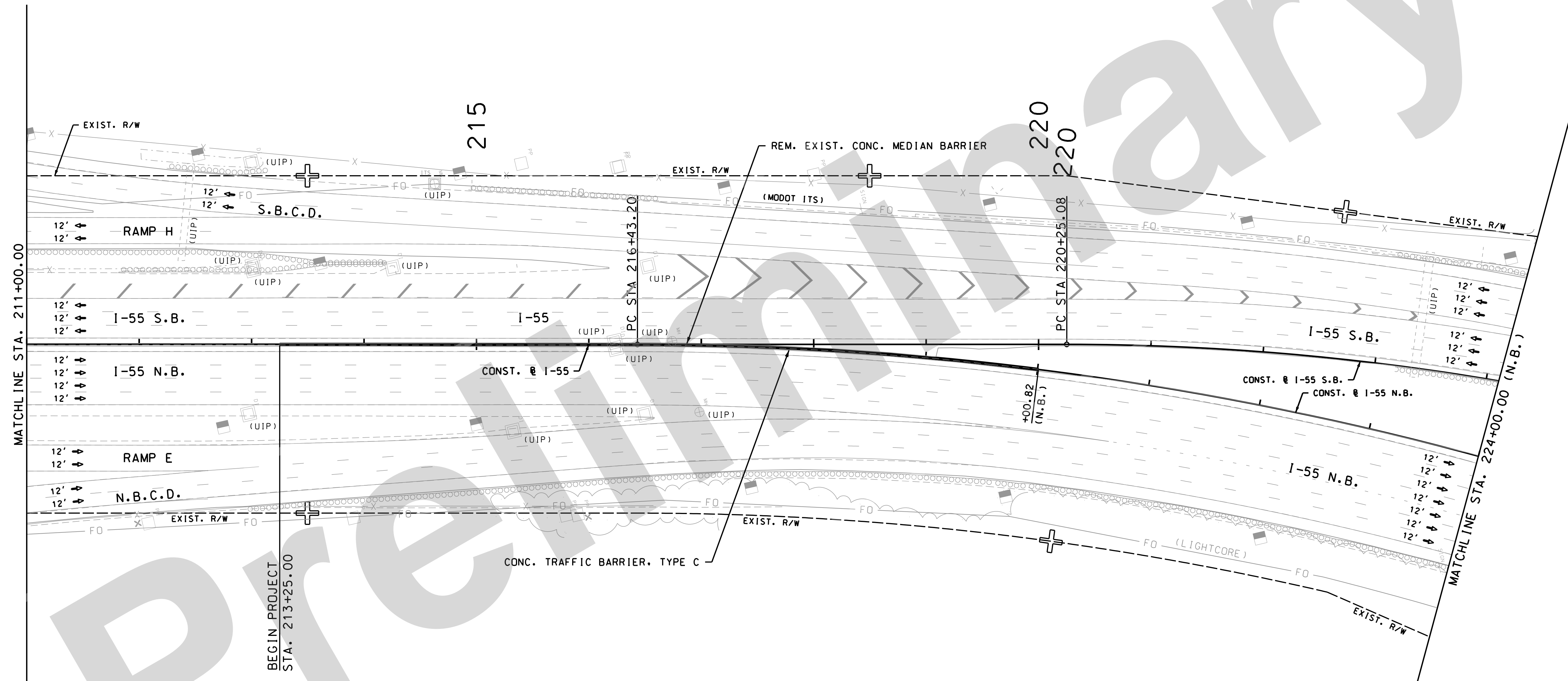
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ENGINEERING CORPORATION - 000631

REV.

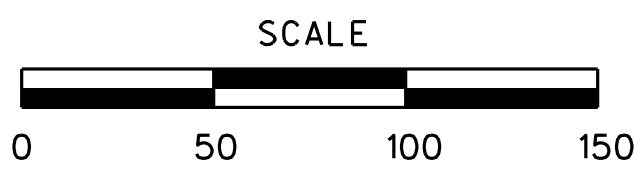
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



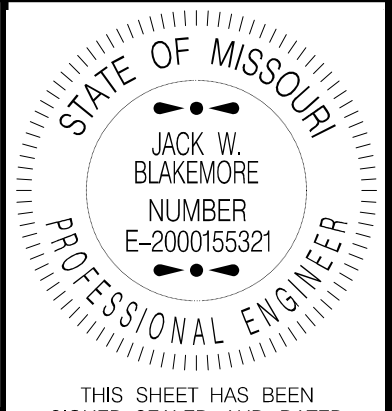
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PI	232+84.26
PC	220+25.08
PT	243+28.03
Δ	57° 33' 15.0" (RT)
D	2° 29' 56.9"
L	2,302.95'
T	1,259.18'
R	2,292.61'

CURVE 55NBUNDS1	
PI	231+26.65
PC	216+43.20
PT	243+80.83
Δ	54° 45' 00.0" (RT)
D	1° 59' 59.7"
L	2,737.63'
T	1,483.45'
R	2,864.92'

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 2 OF 40



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DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	6

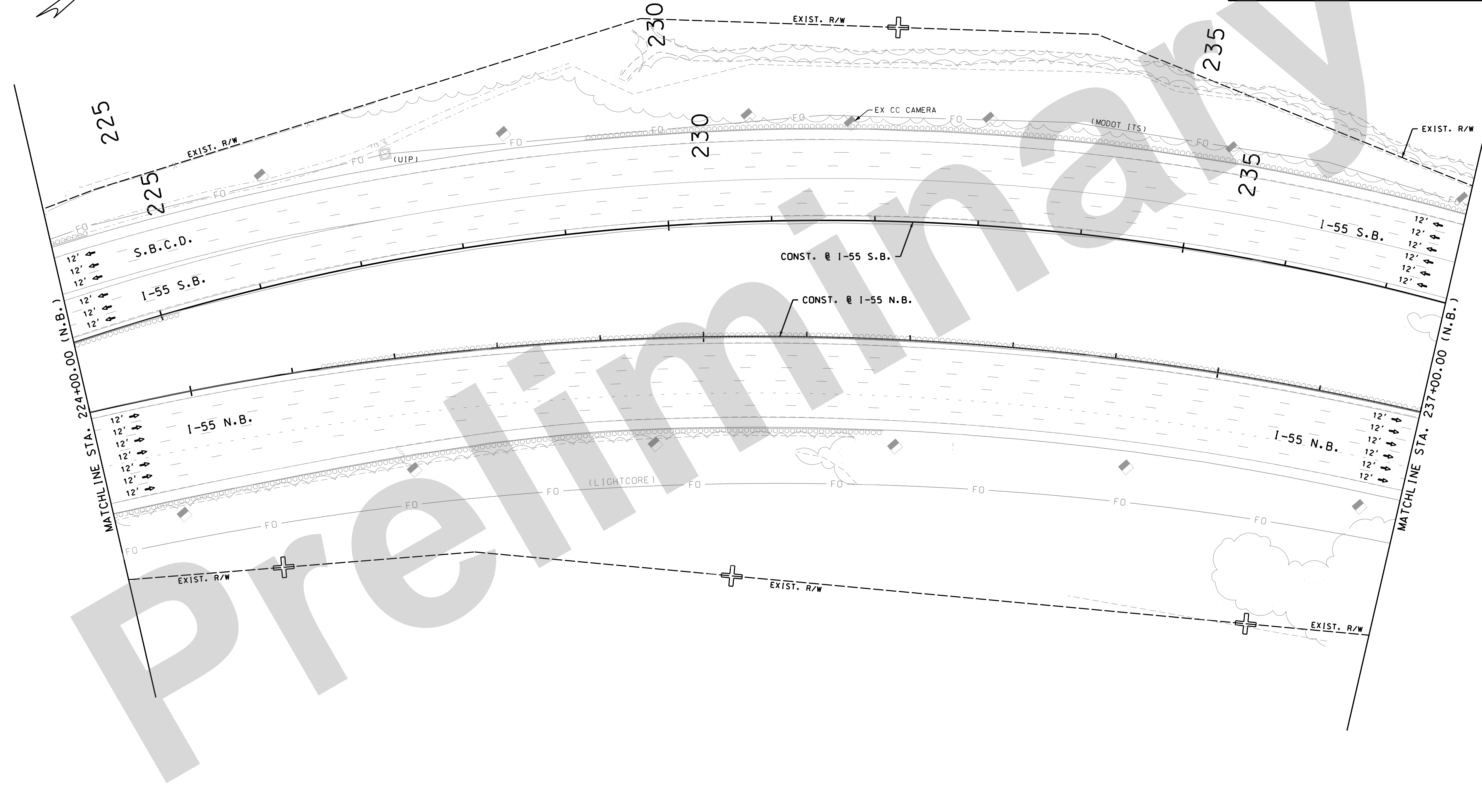
COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



CURVE 55MAIN1	
PI	232+84.26
PC	220+25.08
PT	243+28.03
Δ	57° 33' 15.0" (RT)
D	2,329.56.9'
L	2,302.95'
T	1,259.18'
R	2,292.61'

CURVE 55NBOUNDS1	
PI	231+26.65
PC	216+43.20
PT	243+80.83
Δ	54° 45' 00.0" (RT)
D	1° 59' 59.7"
L	2,737.63'
T	1,483.45'
R	2,864.92'

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 3 OF 40

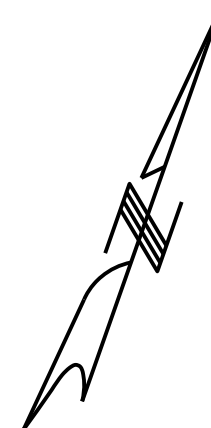
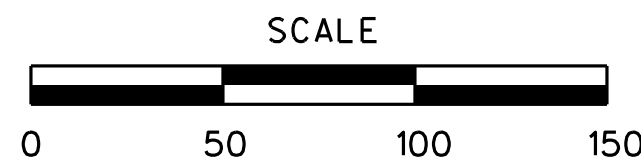
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

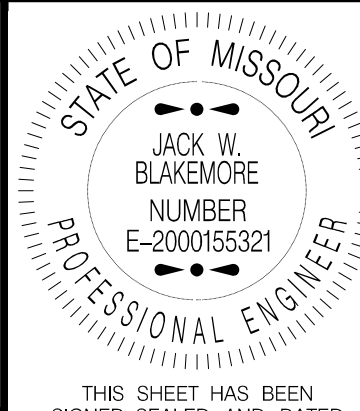
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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 ONE MEMORIAL DRIVE, SUITE 500
 ST. LOUIS, MO 63102 (314) 436-5500
 ENGINEERING CORPORATION - 000631

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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 7

COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)



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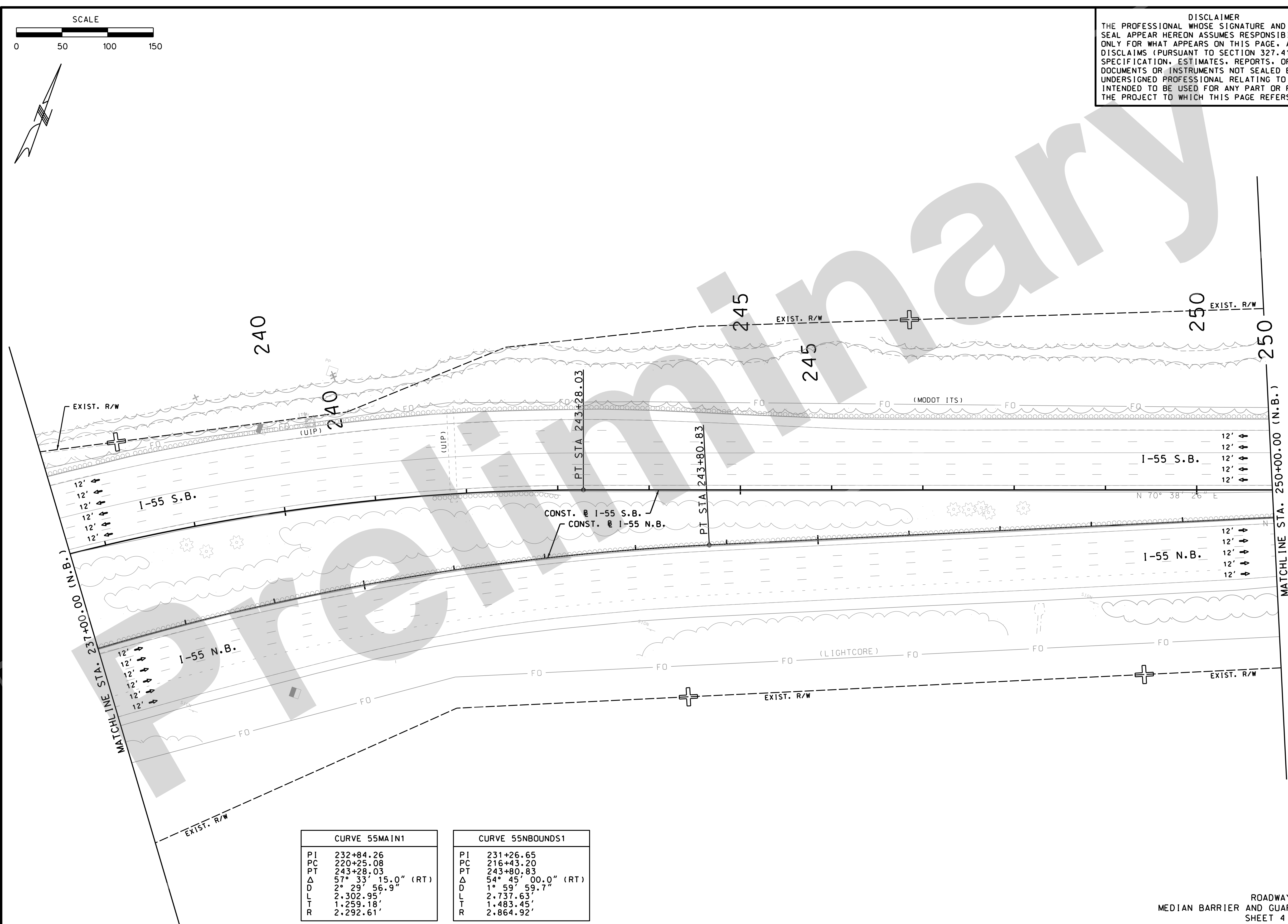
ONE MEMORIAL DRIVE, SUITE 500

ST. LOUIS, MO 63102 (314) 436-5500

ENGINEERING CORPORATION - 000631

REV.

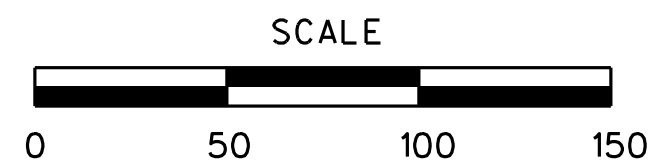
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CURVE 55MAIN1	
PI	232+84.26
PC	220+25.08
PT	243+28.03
Δ	57° 33' 15.0" (RT)
D	2° 29' 56.9"
L	2,302.95'
T	1,259.18'
R	2,292.61'

CURVE 55NBOUNDS1	
PI	231+26.65
PC	216+43.20
PT	243+80.83
Δ	54° 45' 00.0" (RT)
D	1° 59' 59.7"
L	2,737.63'
T	1,483.45'
R	2,864.92'

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 4 OF 40

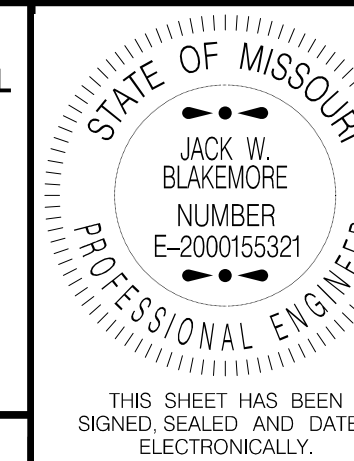


LEGEND:

(A) REPLACE INLET TOP

MILLING LIMITS - SEE DETAILS ON SPECIAL SHEET FOR REPAIRS FOR CROSSOVER REMOVAL (STAGES 3 & 4)

DISCLAIMER
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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 8

COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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DESCRIPTION

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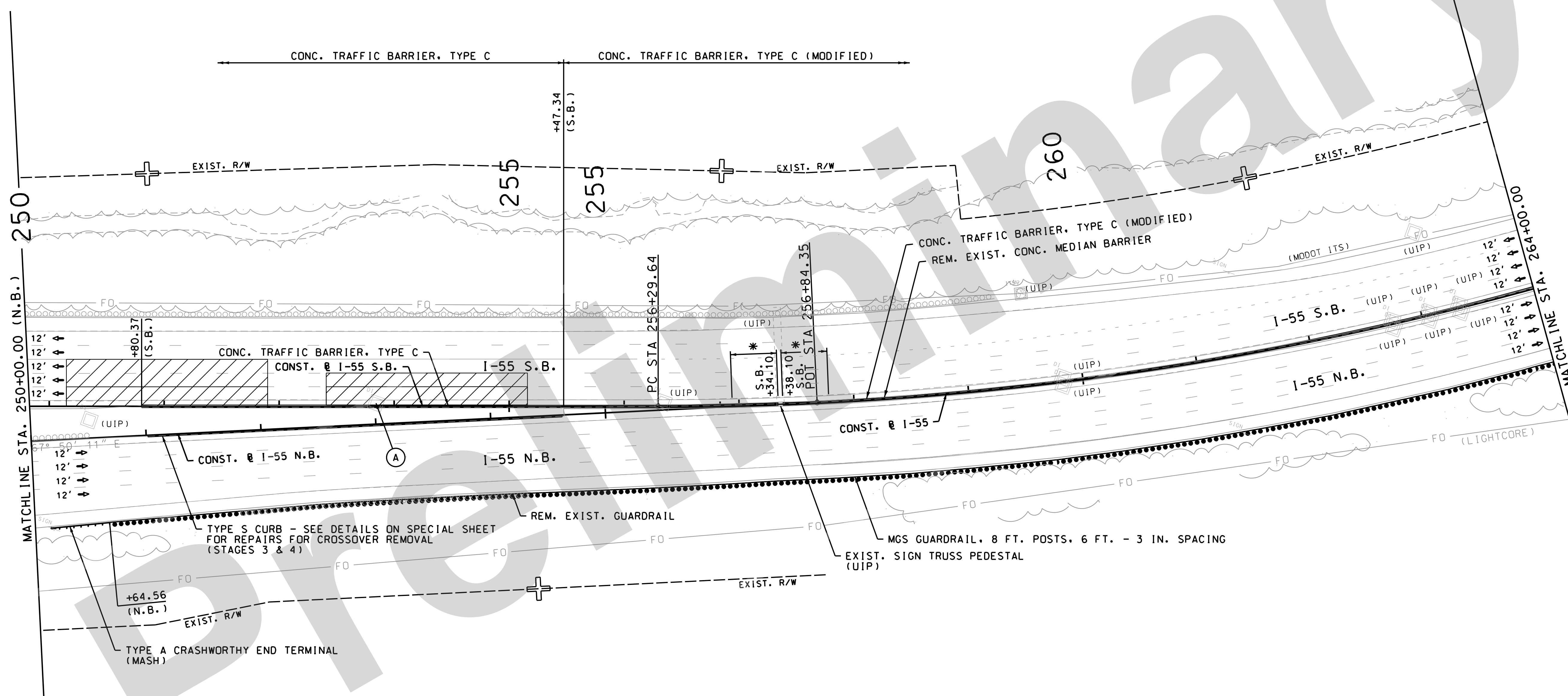
DESCRIPTION

DATE

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CURVE 55MAIN2	
PI	264+78.71
PC	256+29.64
PT	272+80.54
Δ	33° 01' 00.0" (LT)
D	1° 59' 59.7"
L	1,650.90'
T	849.07'
R	2,864.90'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C (MODIFIED) TO MATCH EXISTING CONCRETE SIGN TRUSS PEDESTAL. (SEE DETAIL ON SPECIAL SHEET)

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 5 OF 40

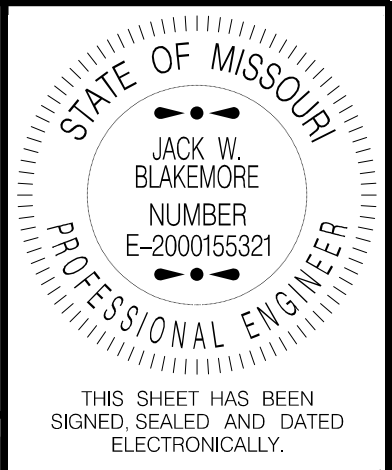




(A) REPLACE INLET TOP

NOTE:
SEE DETAILS ON SPECIAL SHEET FOR GRAVOIS CREEK BRIDGE MAINTENANCE REPAIRS.

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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 9

COUNTY

ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

REV.

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ONE MEMORIAL DRIVE, SUITE 500

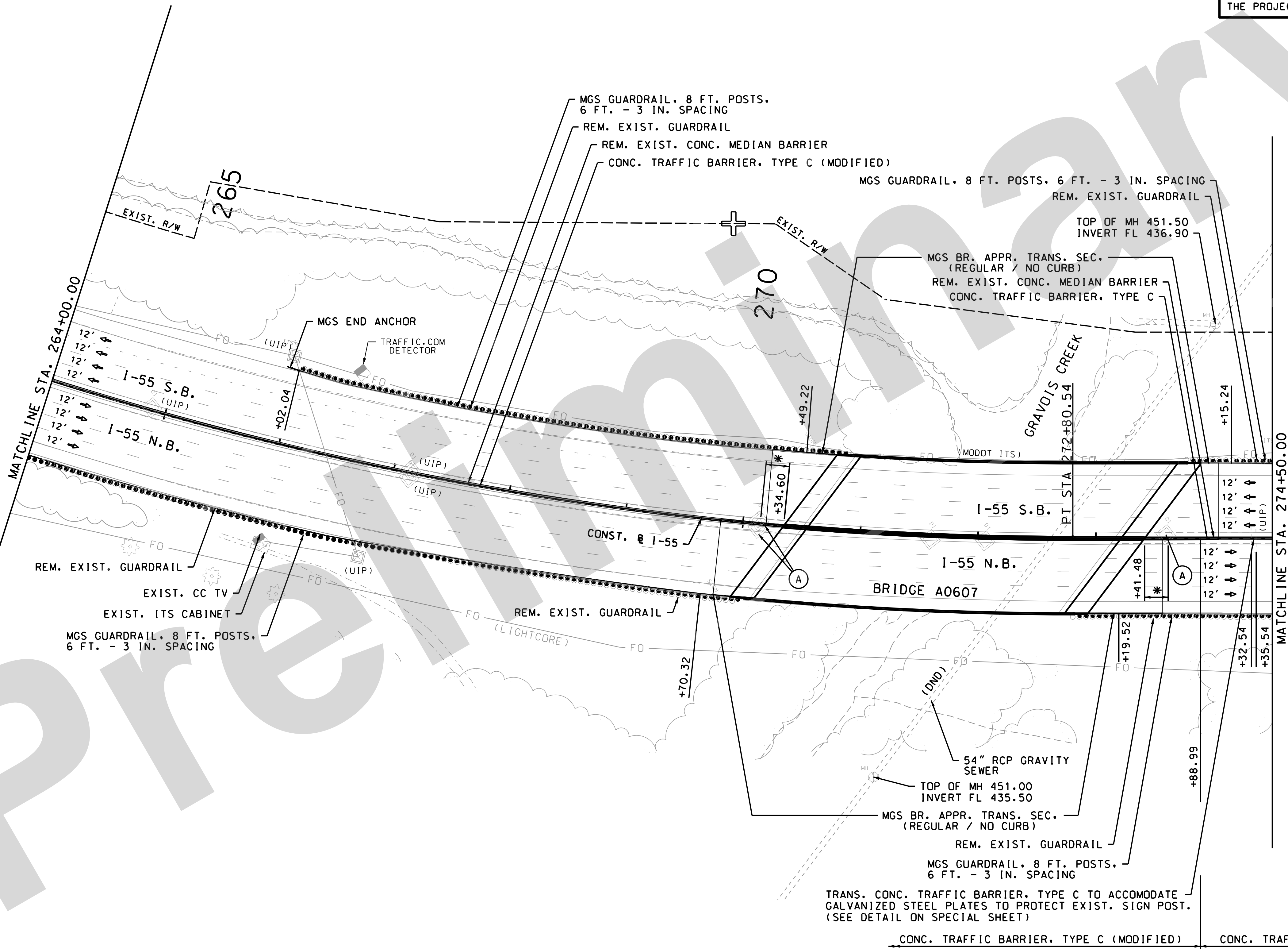
ST. LOUIS, MO 63102 (314) 436-5500

ENGINEERING CORPORATION - 000631

REV.

05-AUG-2021

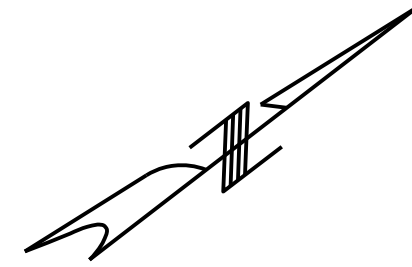
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



CURVE 55MAIN2	
PI	264+78.71
PC	256+29.64
PT	272+80.54
Δ	33° 01' 00.0" (LT)
D	1° 59' 59.7"
L	1,650.90'
T	849.07'
R	2,864.90'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C (MODIFIED) TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C (MODIFIED).

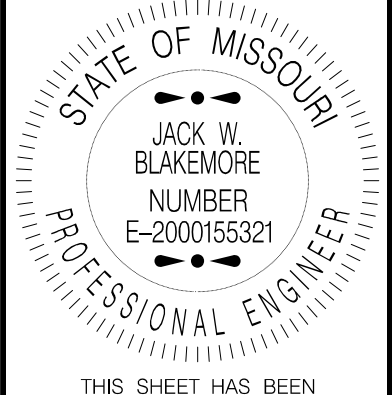
ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 6 OF 40



(A) REPLACE INLET TOP

NOTE:
SEE DETAILS ON SPECIAL SHEET FOR GREEN PARK ROAD BRIDGE MAINTENANCE REPAIRS.

DISCLAIMER
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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 10

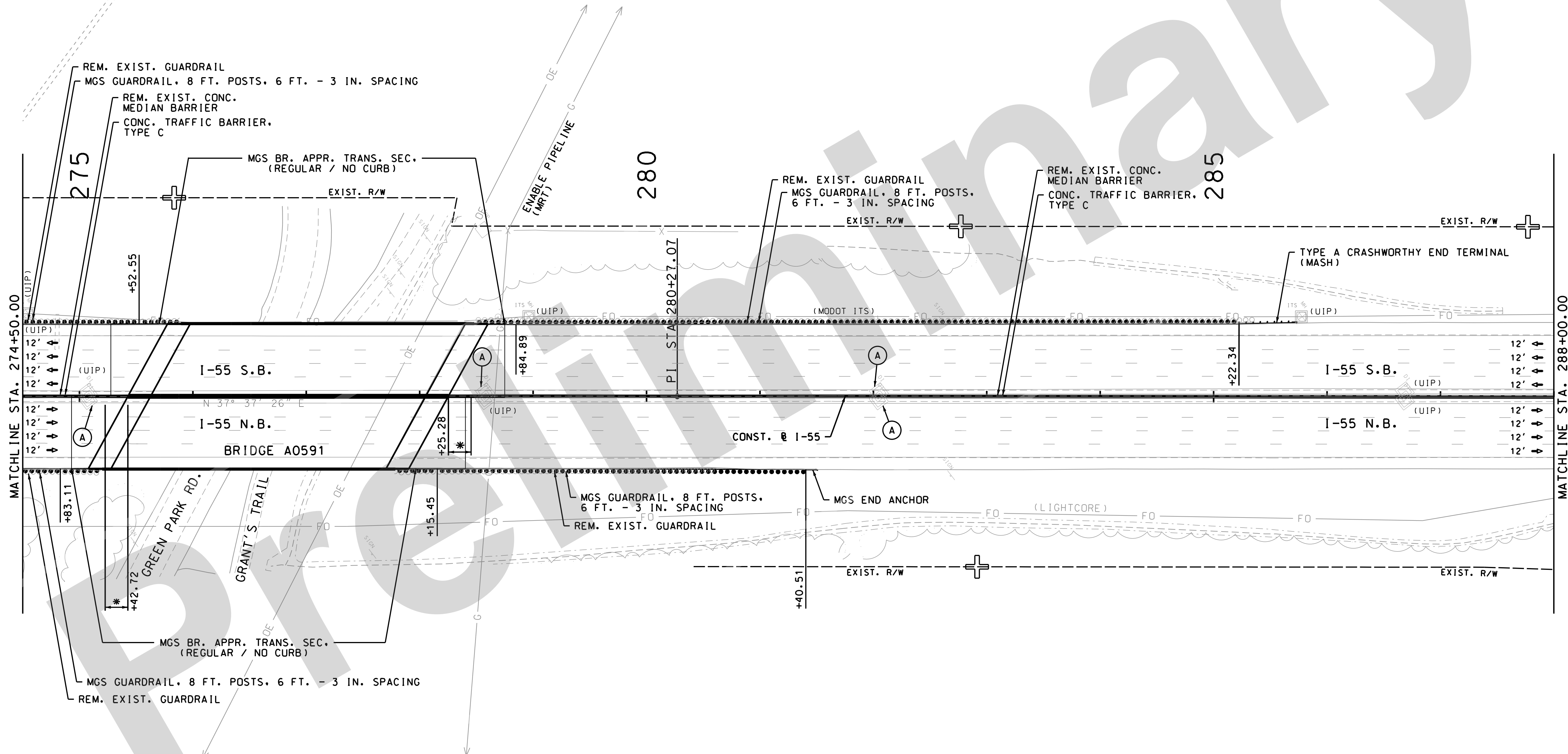
COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

DATE	DESCRIPTION

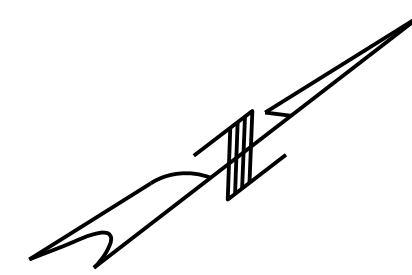
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ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 7 OF 40

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ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 11

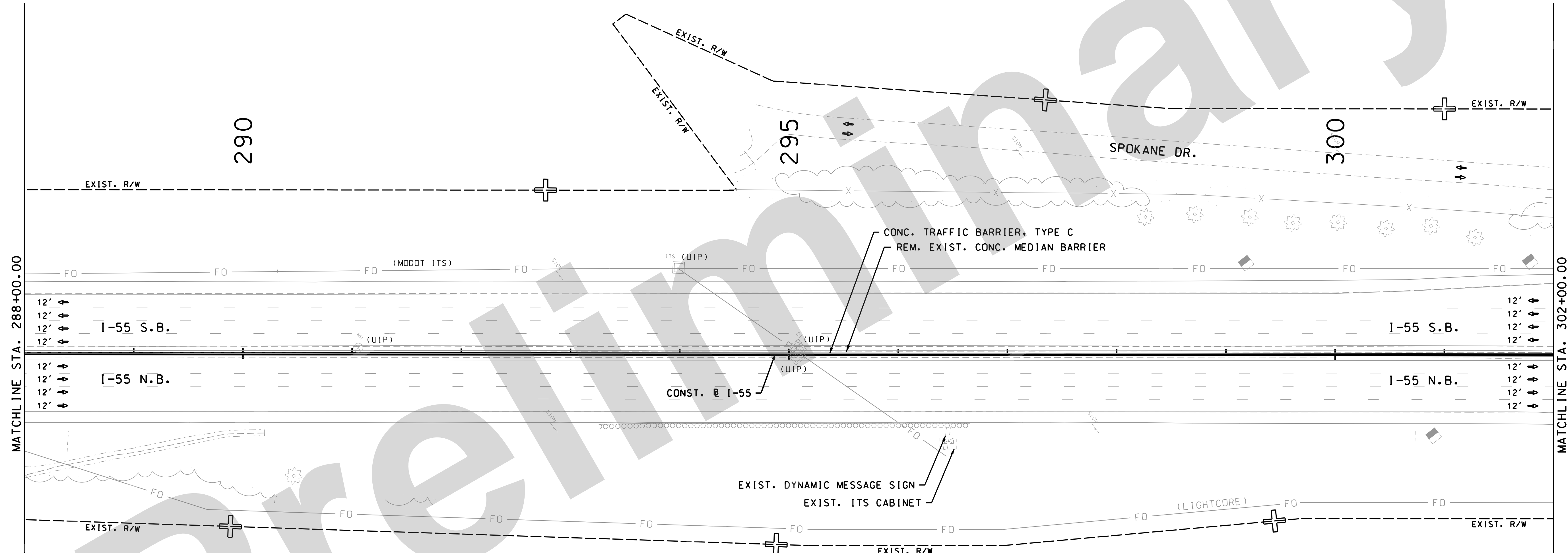
COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



DATE	DESCRIPTION

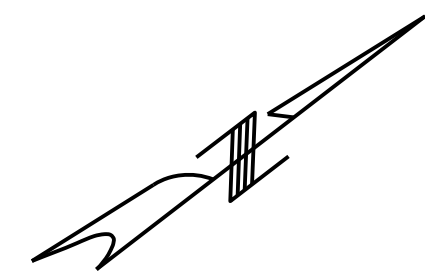
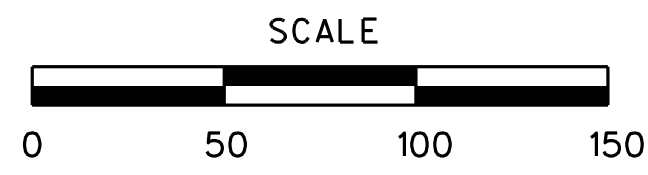
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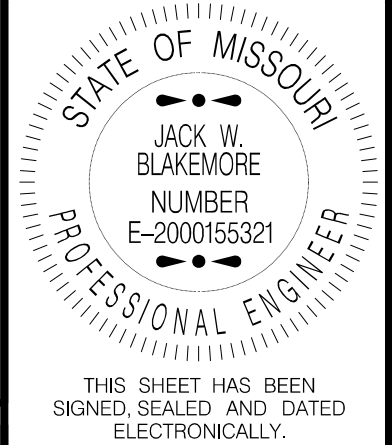
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 8 OF 40

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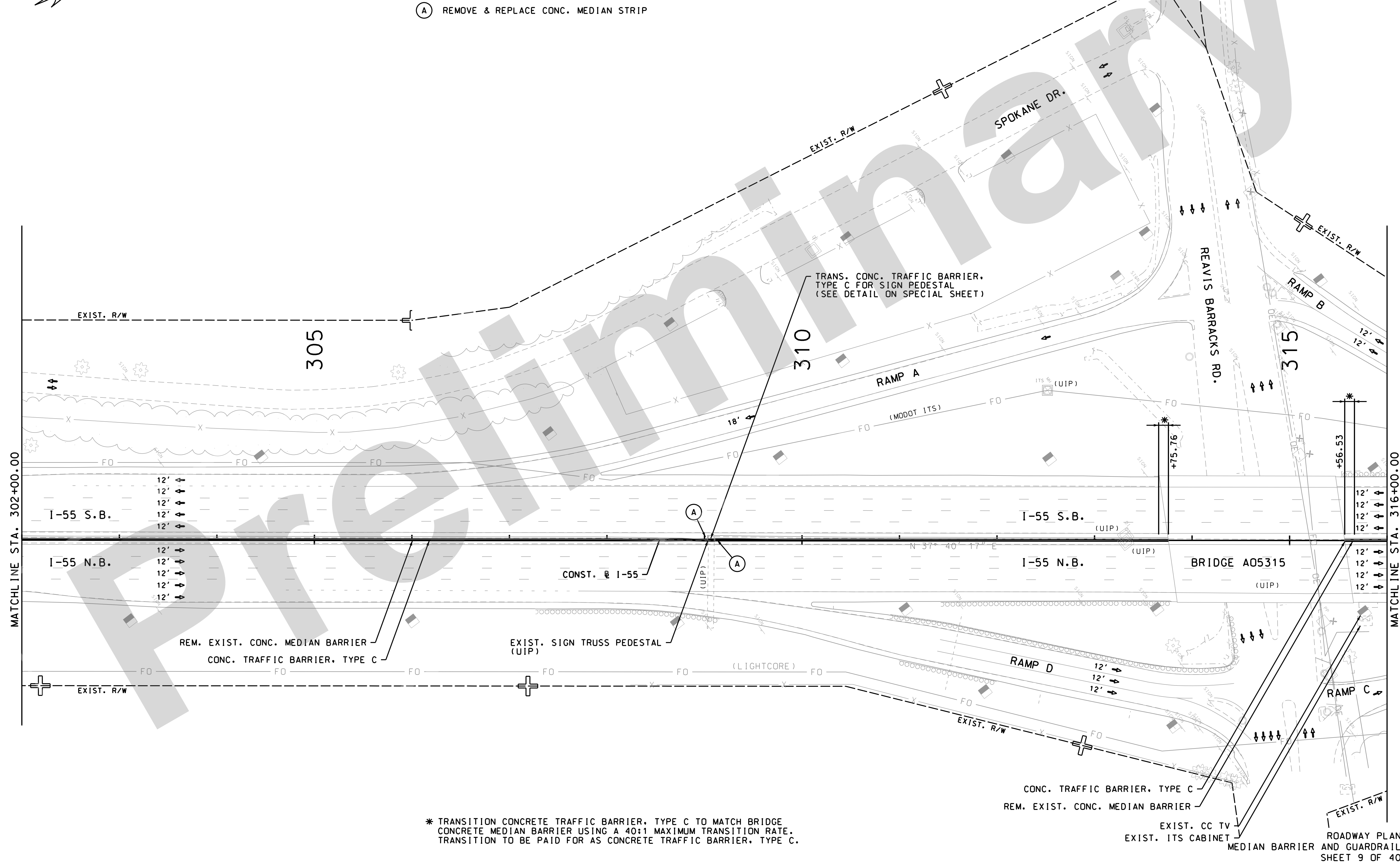
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(A) REMOVE & REPLACE CONC. MEDIAN STRIP

DATE PREPARED	05-AUG-2021
ROUTE	I-55
STATE	MO
DISTRICT	SL
SHEET NO.	12
COUNTY	ST. LOUIS
JOB NO.	J613187
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

DESCRIPTION	DATE

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ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 13

COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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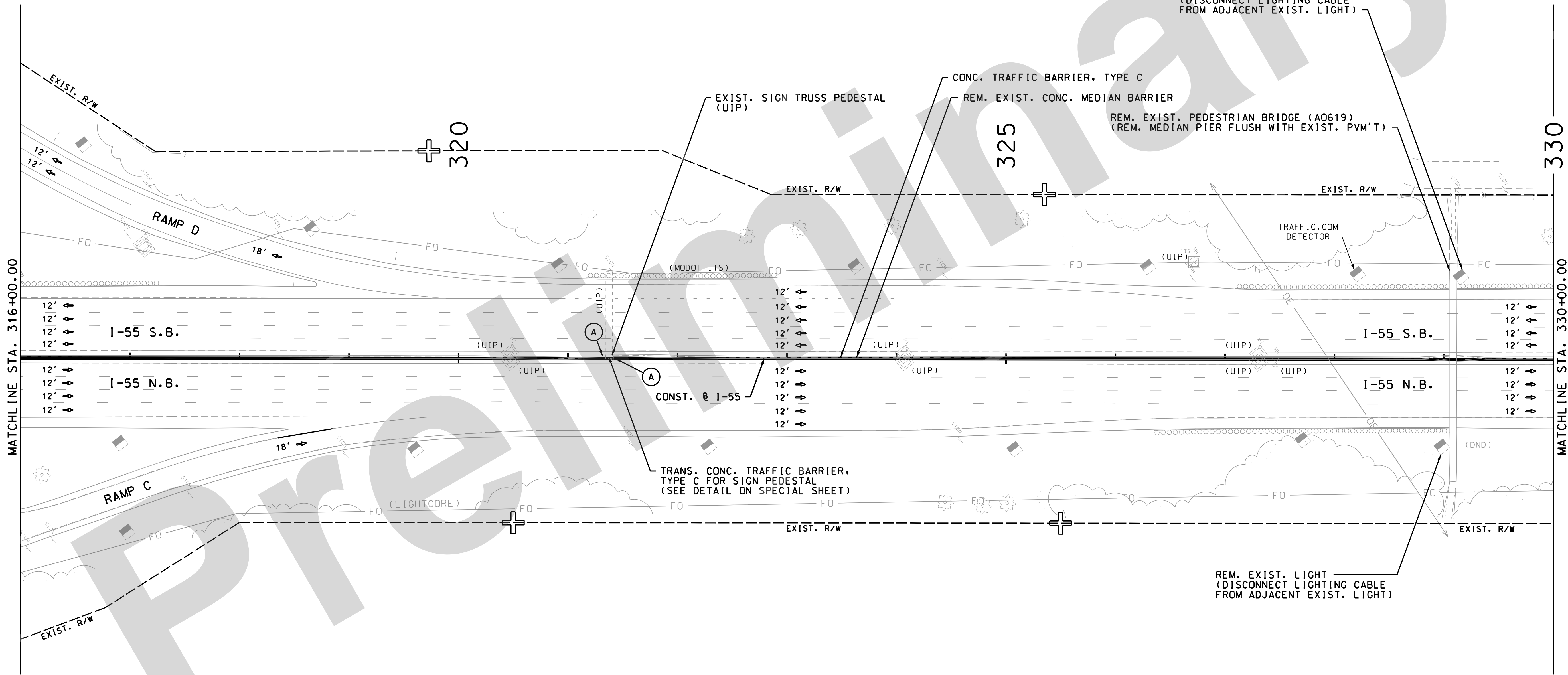
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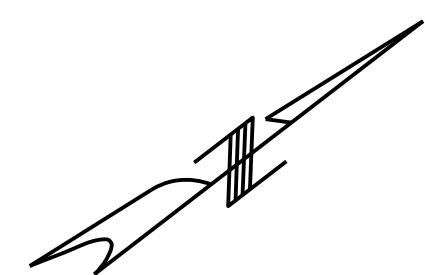
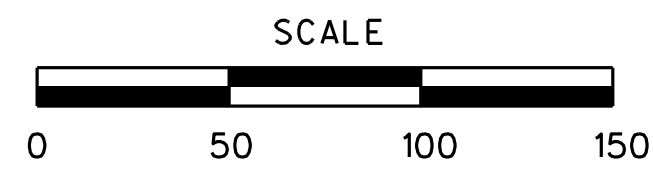
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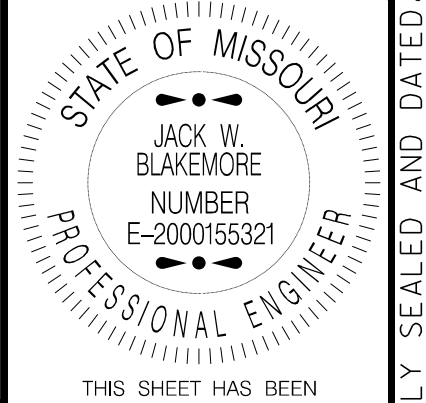


ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 10 OF 40



(A) REMOVE & REPLACE CONC. MEDIAN STRIP

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DATE PREPARED
05-AUG-2021

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I-55	MO
DISTRICT	SHEET NO.
SL	14

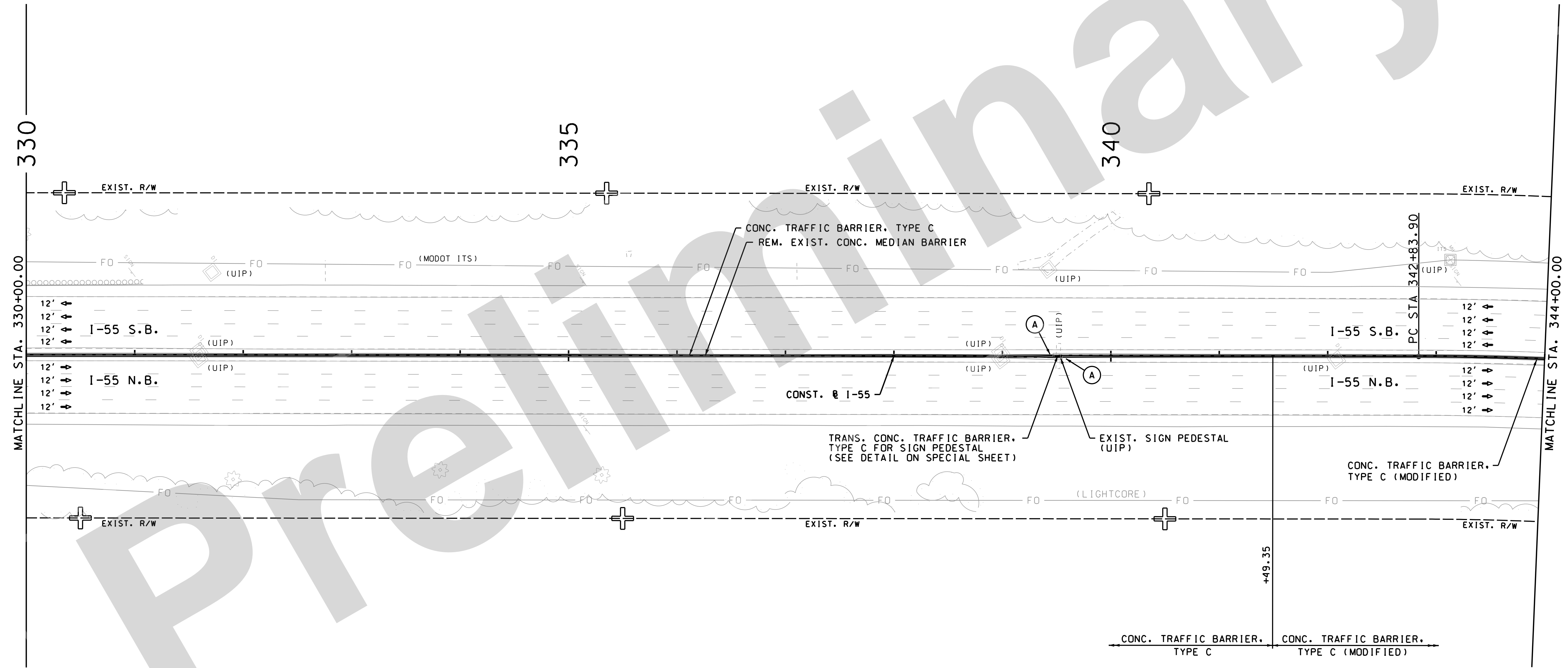
COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



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PC	342+83.90
PT	353+03.80
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L	1,019.90'
T	515.41'
R	2,864.77'

DATE	DESCRIPTION

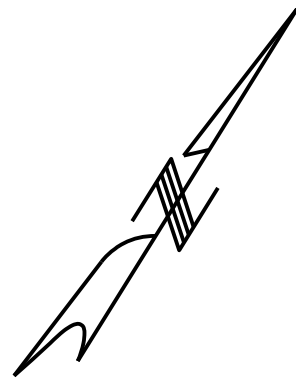
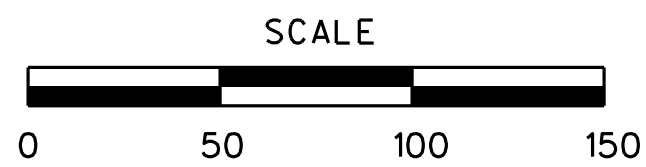
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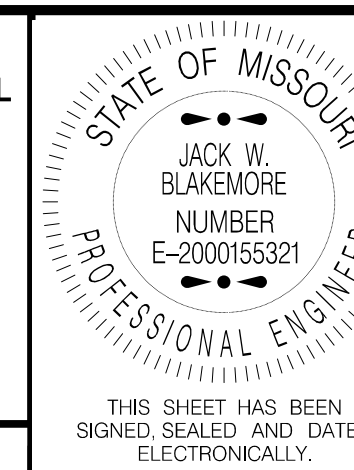
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 11 OF 40

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ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 15

COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

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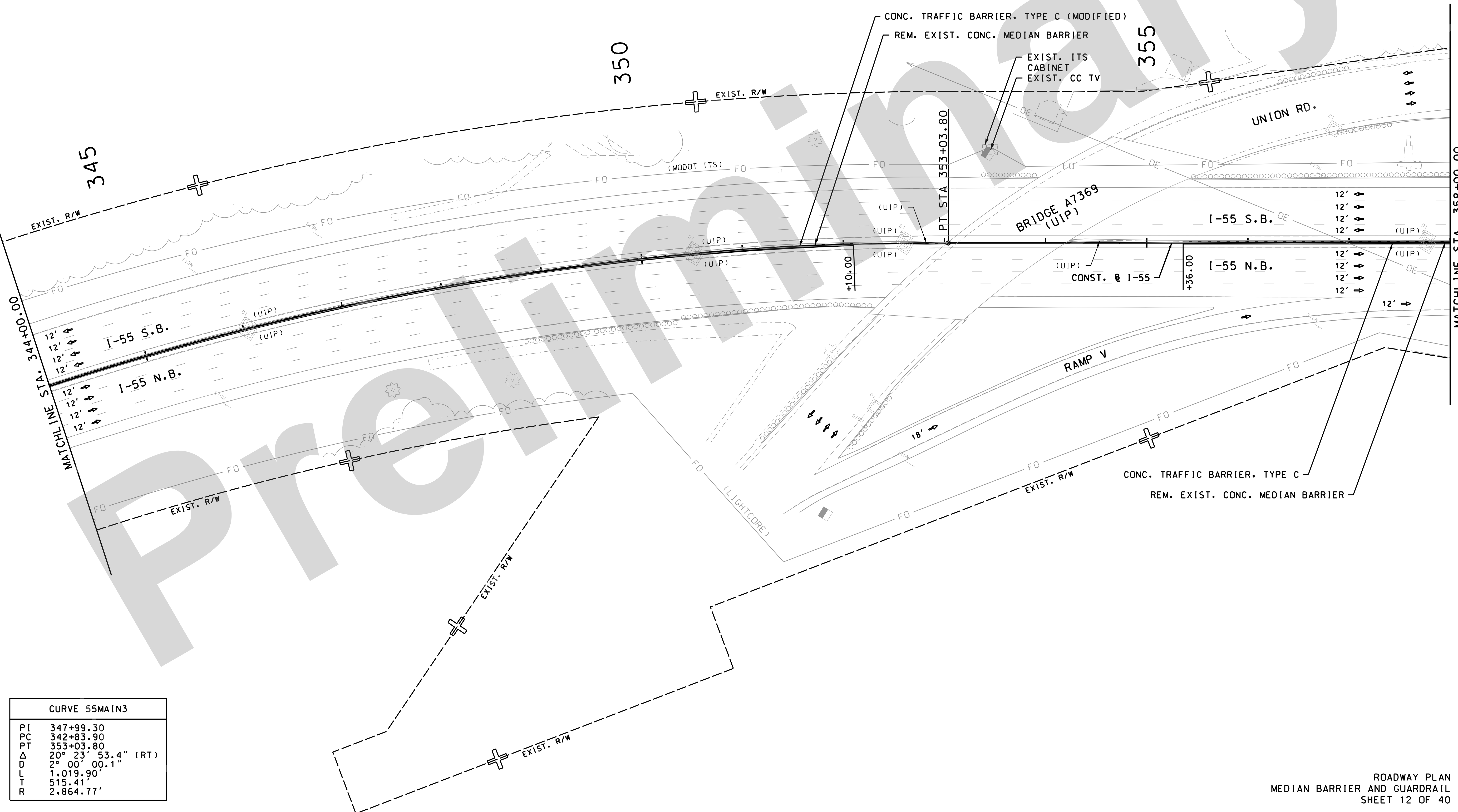
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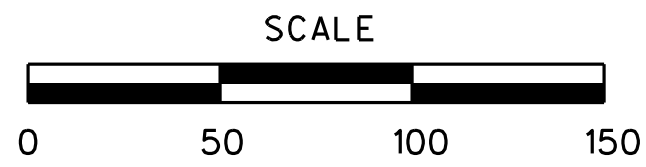
REV.

05-AUG-2021

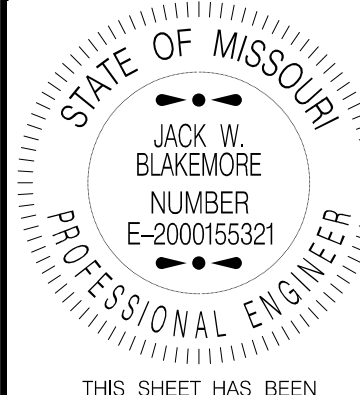
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PC	342+83.90
PT	353+03.80
Δ	20° 23' 53.4" (RT)
D	2° 00' 00.1"
L	1,019.90'
T	515.41'
R	2,864.77'





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ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 16

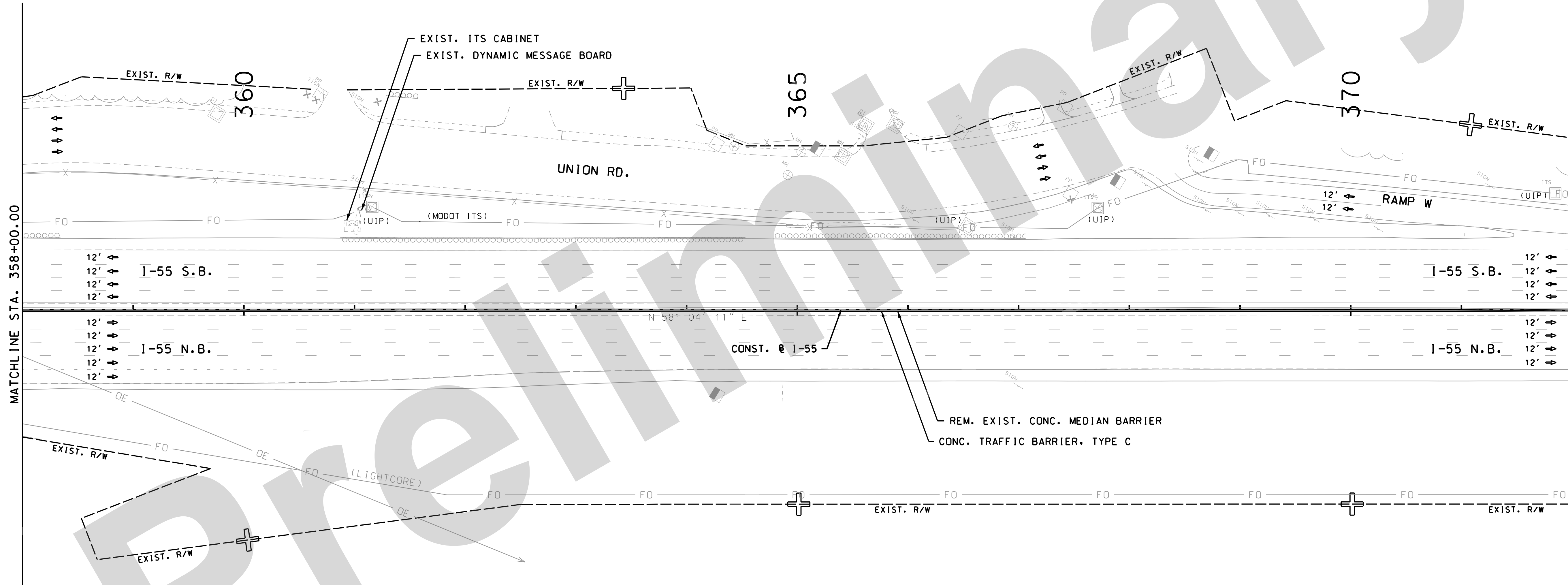
COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MATCHLINE STA. 358+00.00

MATCHLINE STA. 372+00.00

DATE	DESCRIPTION

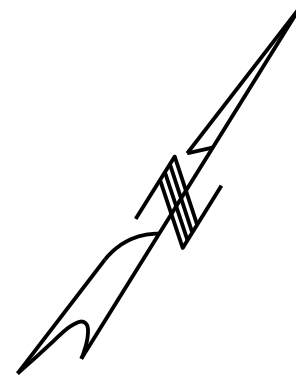
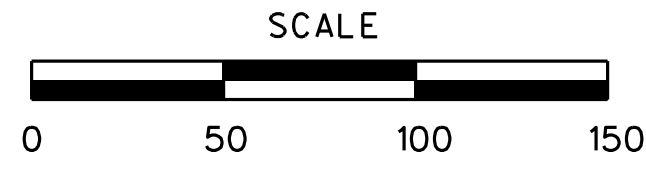
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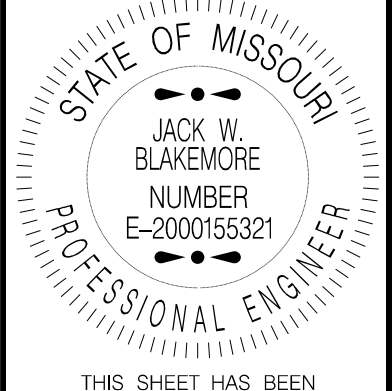
ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 13 OF 40

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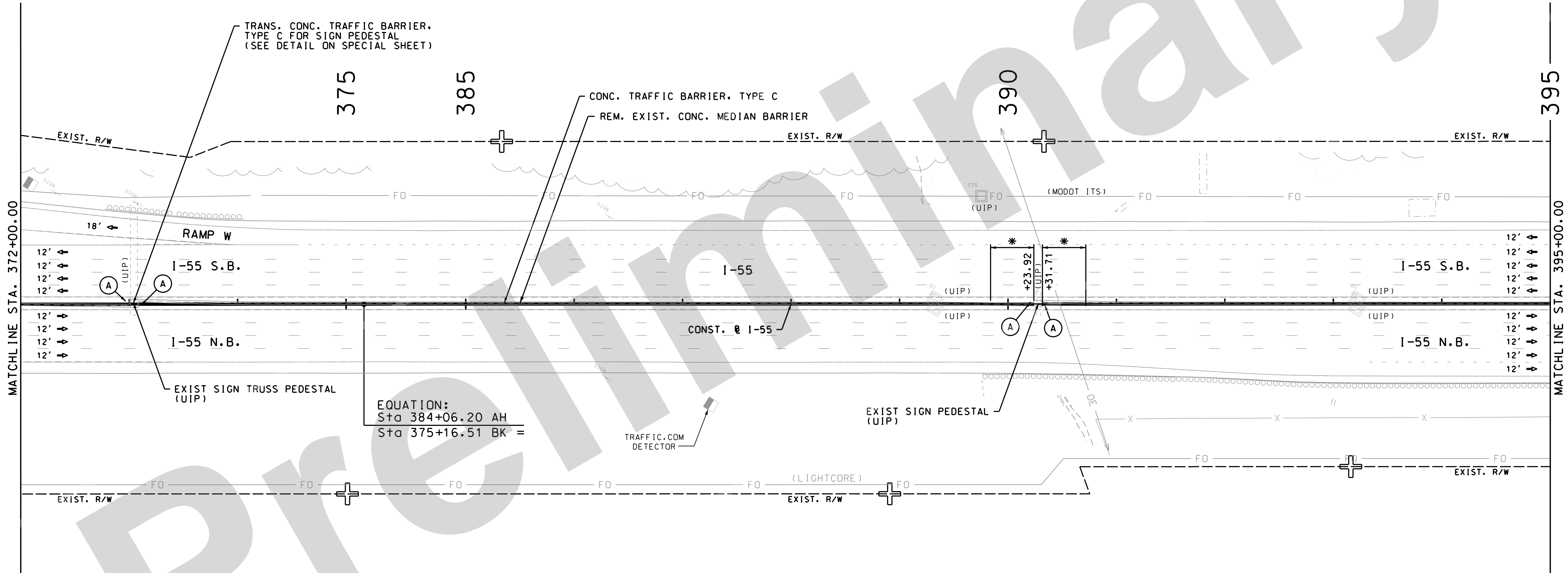
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DISTRICT SL	SHEET NO. 17
COUNTY ST. LOUIS	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



EQUATION:
 Sta 384+06.20 AH
 Sta 375+16.51 BK =

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH EXISTING CONCRETE SIGN PEDESTAL. (SEE DETAIL ON SPECIAL SHEET)

DATE	DESCRIPTION

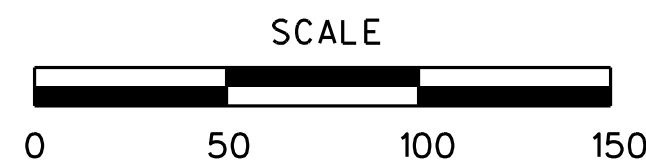
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 14 OF 40

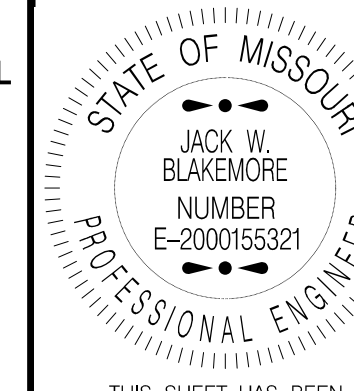
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NOTE:
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05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 18

COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

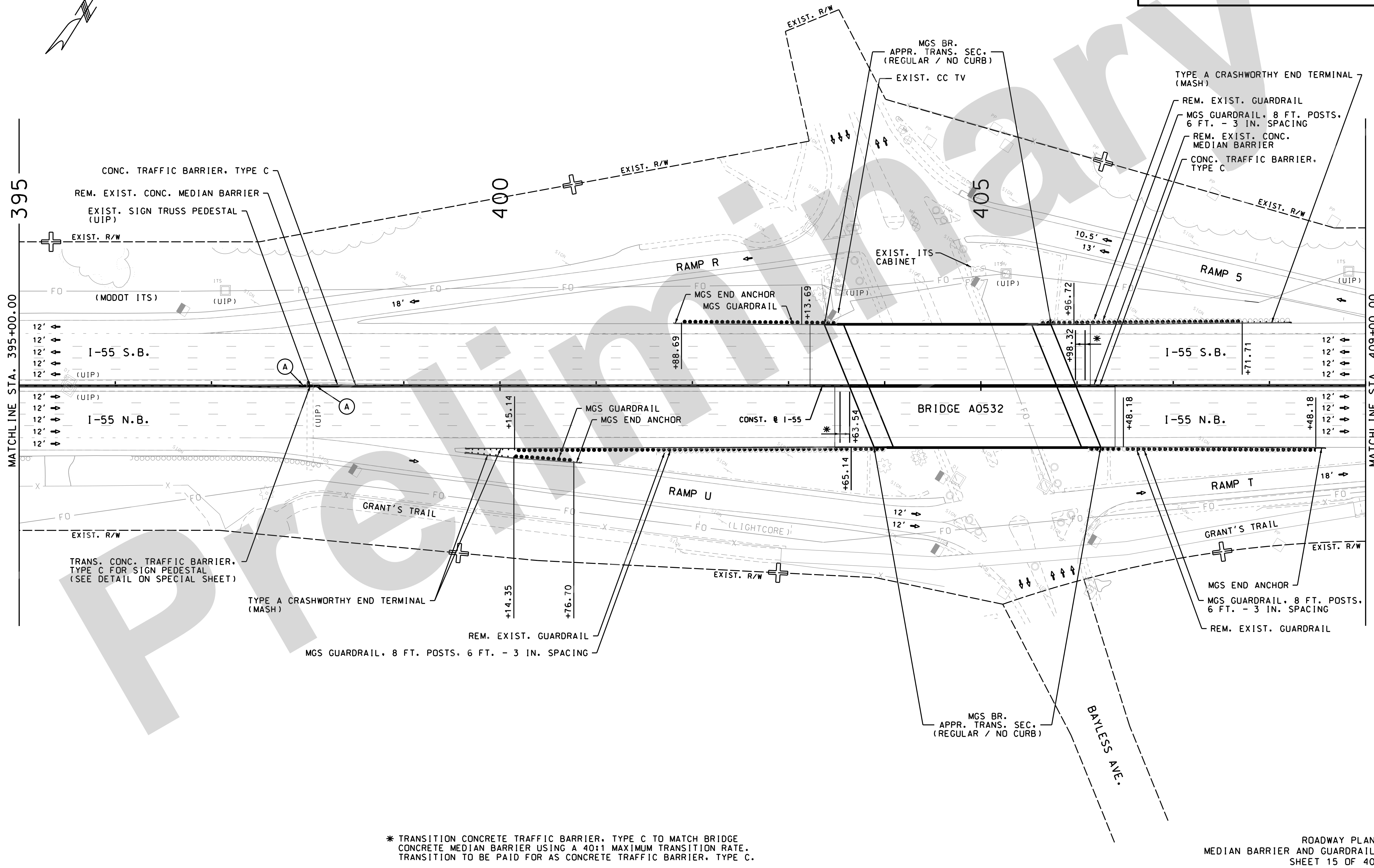
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 1-888-ASK-MODOT (1-888-275-6636)

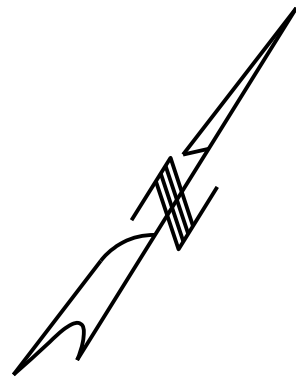
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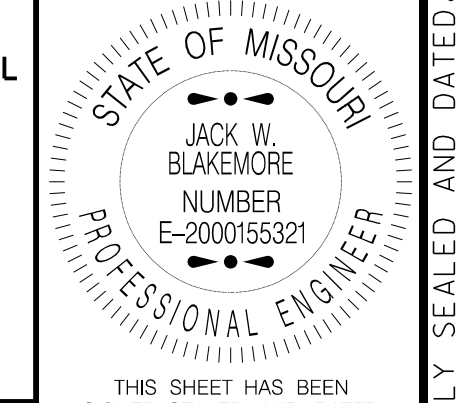
* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 15 OF 40

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DATE PREPARED
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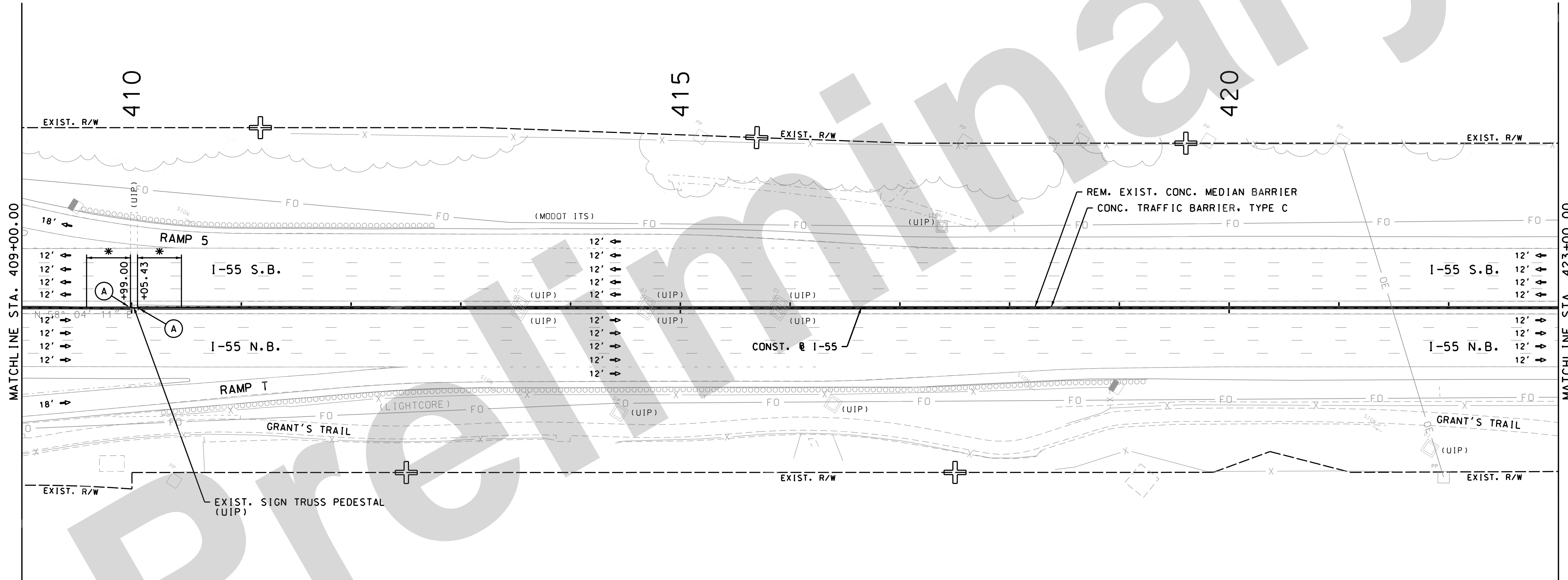
ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 19

COUNTY
 ST. LOUIS

JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MATCHLINE STA. 409+00.00

MATCHLINE STA. 423+00.00

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

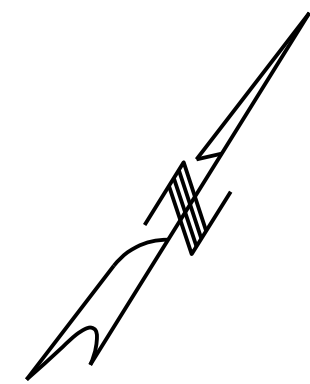
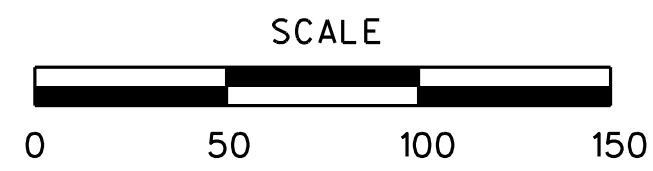
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* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH EXISTING CONCRETE SIGN TRUSS PEDESTAL. (SEE DETAIL ON SPECIAL SHEET)

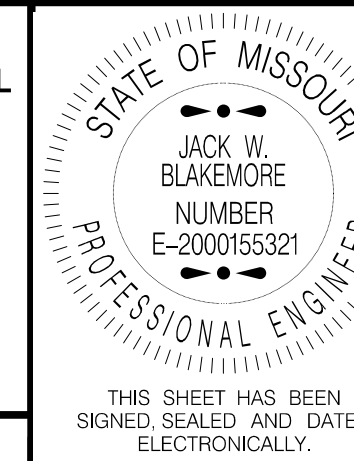
ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 16 OF 40

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 20

COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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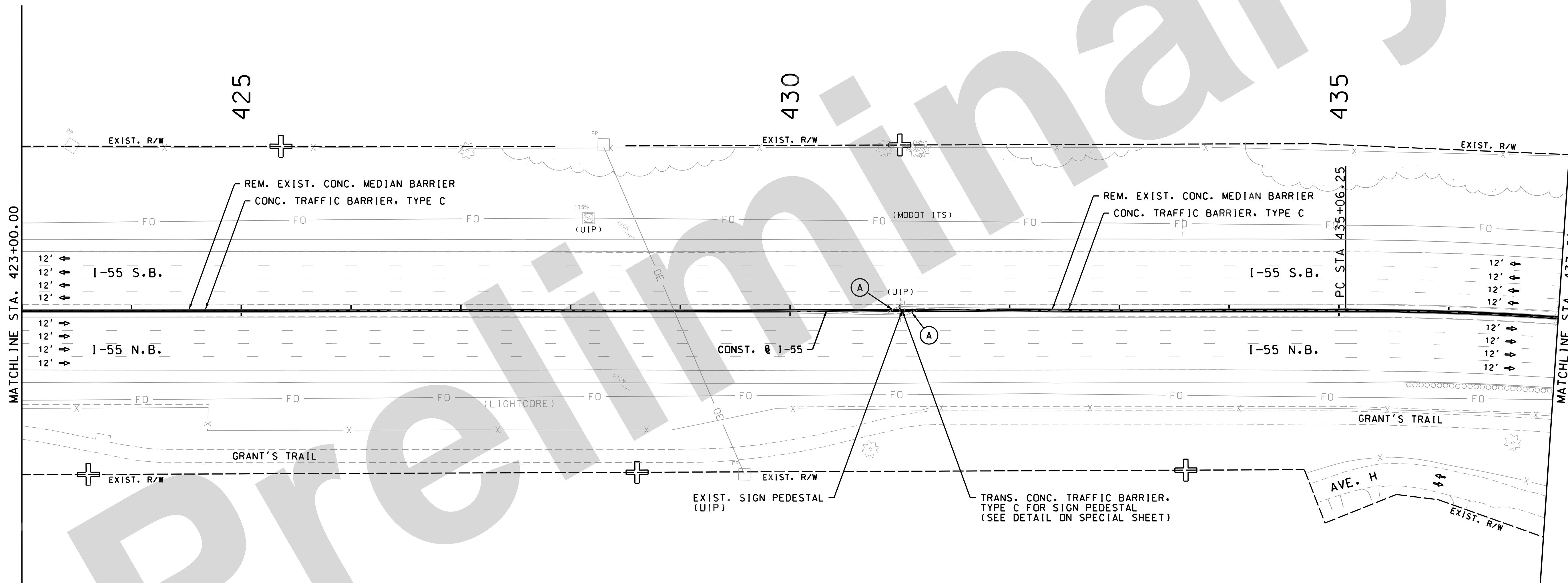
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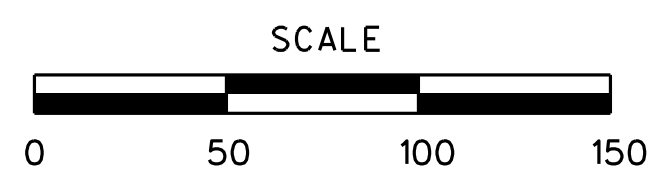


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PC	435+06.25
PT	447+77.67
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D	1° 59' 59.7"
L	1,271.42'
T	646.35'
R	2,864.93'

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 17 OF 40

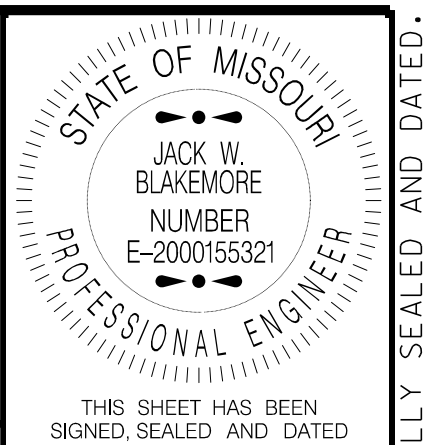


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I-55	MO
DISTRICT	SHEET NO.
SL	21

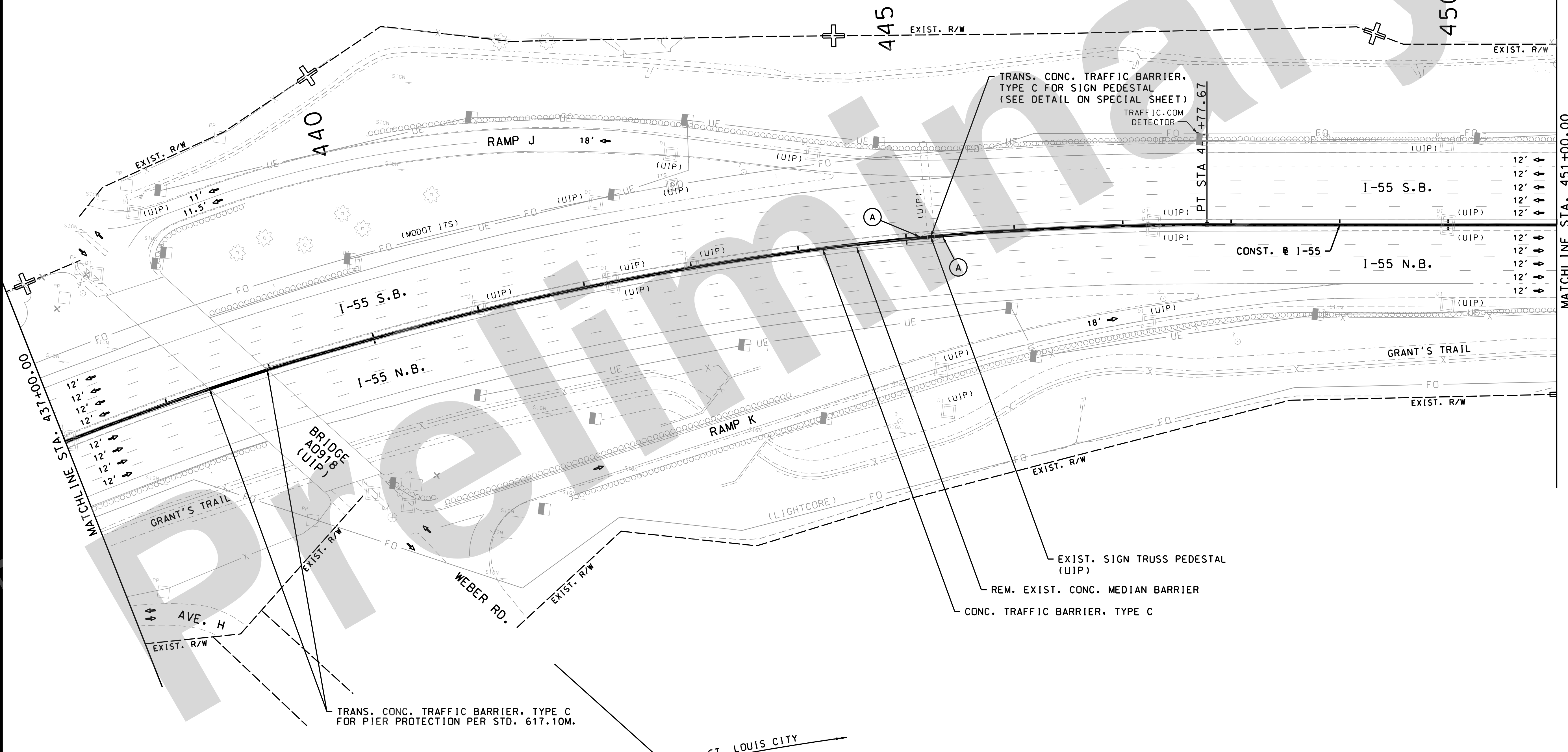
COUNTY
 ST. LOUIS

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

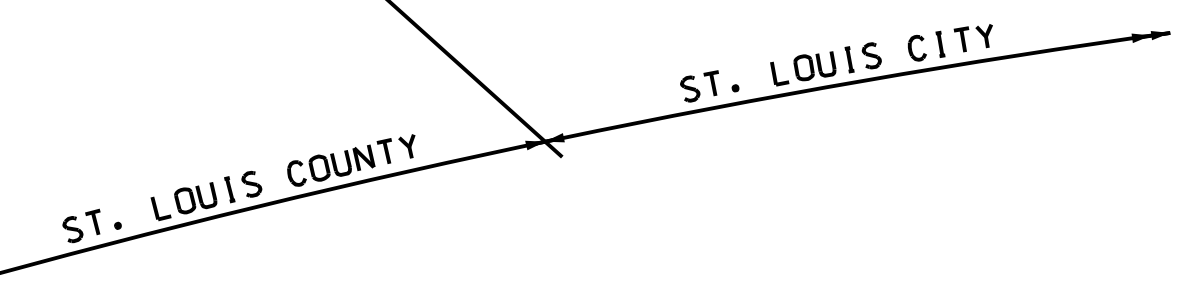
BRIDGE NO.



MATCH LINE STA. 451+00.00

DATE	DESCRIPTION

PI	441+52.60
PC	435+06.25
PT	447+77.67
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D	1° 59' 59.7"
L	1,271.42'
T	646.35'
R	2,864.93'



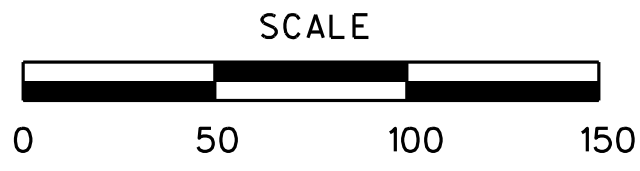
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 18 OF 40

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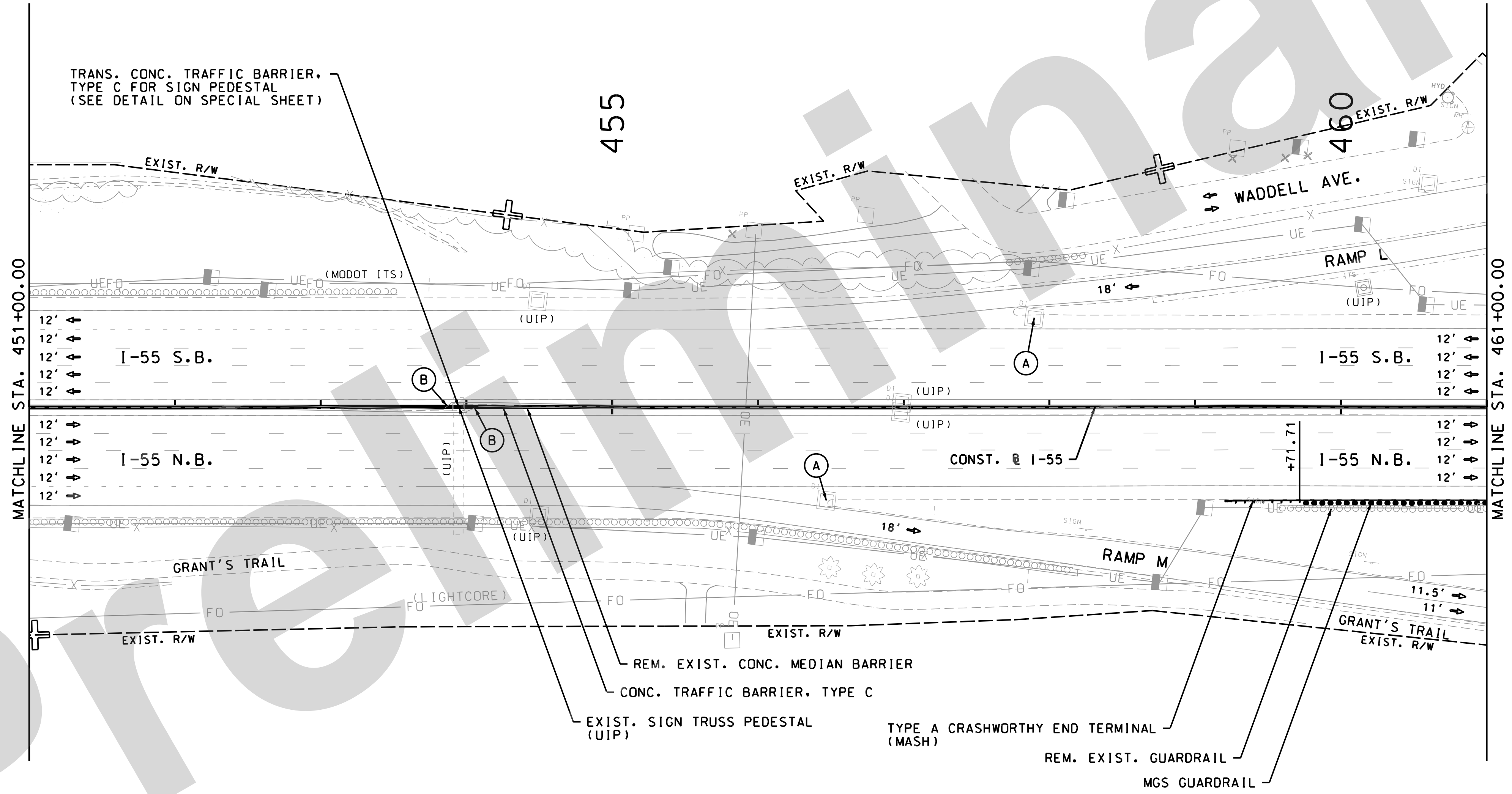
ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 22

COUNTY
ST. LOUIS CITY

JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

- (A) REPLACE INLET TOP
- (B) REMOVE & REPLACE CONC. MEDIAN STRIP



PROJENINAR

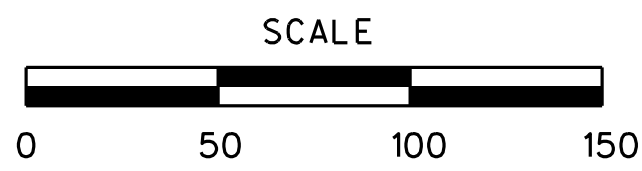
DATE	DESCRIPTION

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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 19 OF 40

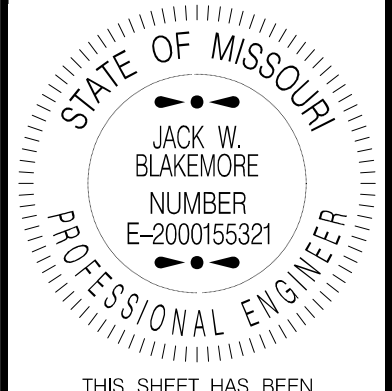


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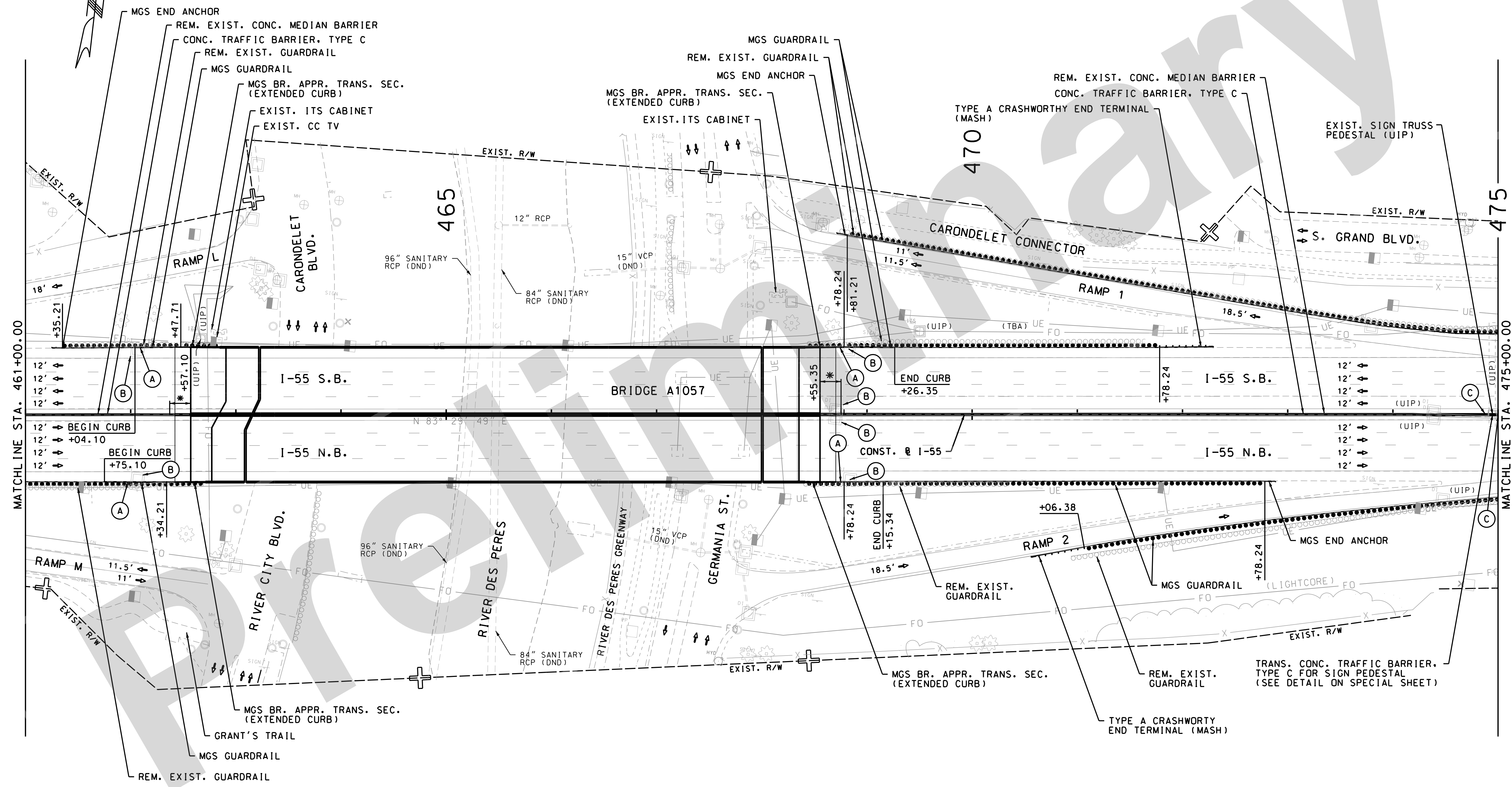
SEE DETAILS ON SPECIAL SHEET FOR RIVER DES PERES BRIDGE MAINTENANCE REPAIRS.

- (A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (B) REPLACE INLET TOP
- (C) REMOVE & REPLACE CONC. MEDIAN STRIP

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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 23
COUNTY ST. LOUIS CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



* TRANS. CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANS. TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 20 OF 40

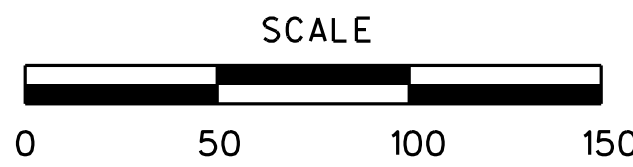
DATE	DESCRIPTION

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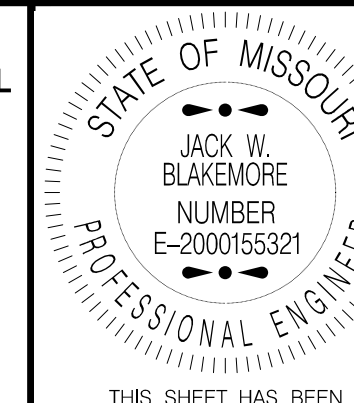


- (A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (B) REPLACE INLET TOP

NOTE:

SEE DETAILS ON SPECIAL SHEET FOR KOELN AVENUE BRIDGE MAINTENANCE REPAIRS.

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 24

COUNTY
ST. LOUIS CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

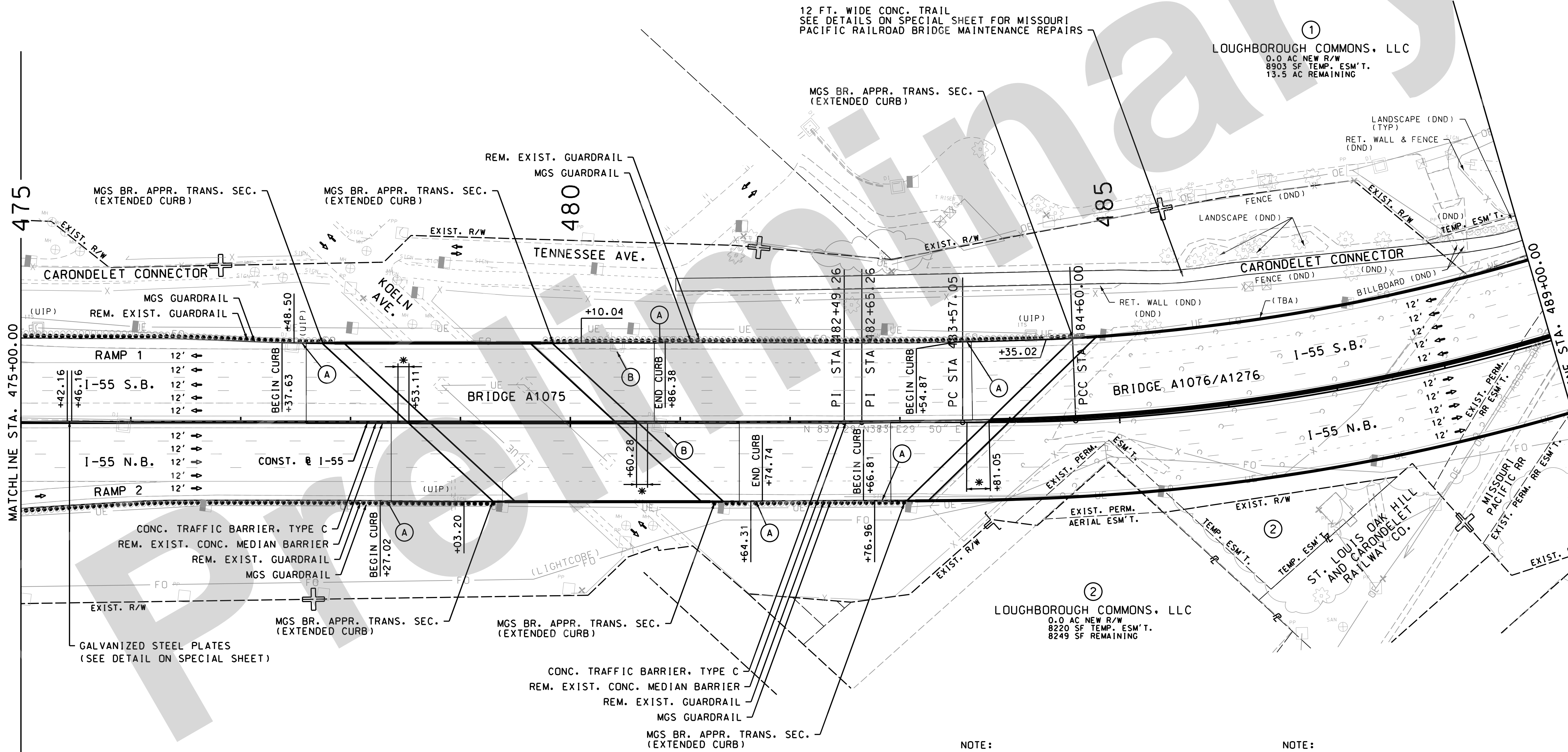
DATE	DESCRIPTION

DATE	DESCRIPTION

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CURVE 55MAINS	
PI	484+08.53
PC	483+57.05
PCC	484+60.00
Δ	2° 34' 26.2" (LT)
D	2° 30' 00.7"
L	102.95'
T	51.48'
R	2,291.66'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

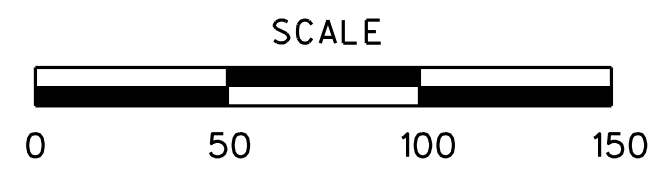
NOTE:

SEE DETAILS ON SPECIAL SHEET FOR MO-PAC RR BRIDGE RIGHT OF WAY.

NOTE:

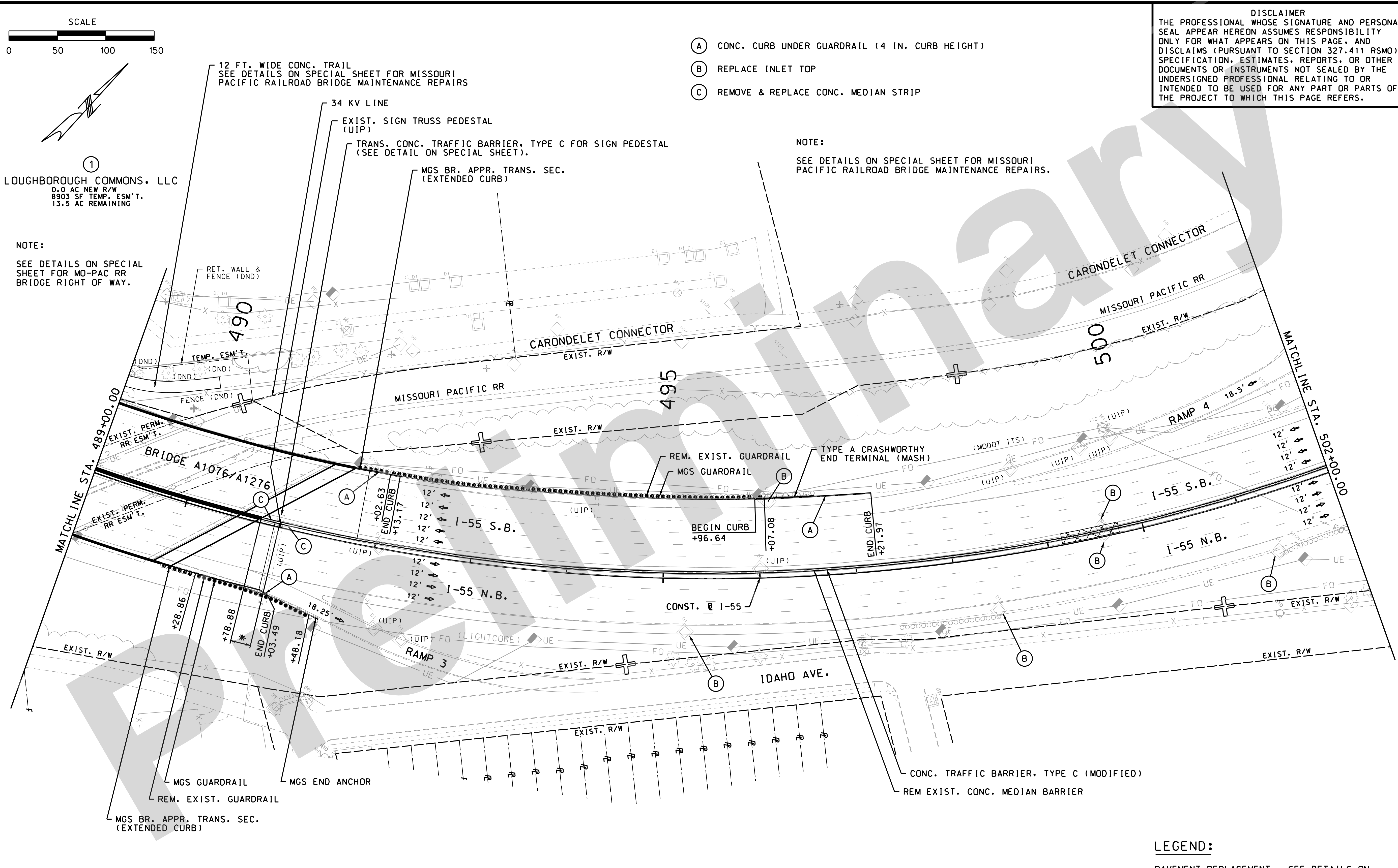
SEE DETAILS ON SPECIAL SHEET FOR MISSOURI PACIFIC RAILROAD BRIDGE MAINTENANCE REPAIRS.

ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 21 OF 40



①
LOUGHBOROUGH COMMONS, LLC
0.0 AC NEW R/W
8903 SF TEMP. ESM'T.
13.5 AC REMAINING

NOTE:
SEE DETAILS ON SPECIAL SHEET FOR MO-PAC RR BRIDGE RIGHT OF WAY.



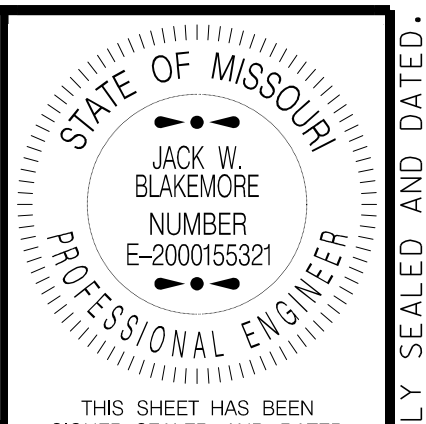
CURVE 55MAIN6	
PI	495+07.09
PCC	484+60.00
PRC	503+75.64
Δ	57° 27' 45.9" (LT)
D	2° 59' 58.8"
L	1,915.65'
T	1,047.10'
R	1,910.08'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

- (A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (B) REPLACE INLET TOP
- (C) REMOVE & REPLACE CONC. MEDIAN STRIP

NOTE:
SEE DETAILS ON SPECIAL SHEET FOR MISSOURI PACIFIC RAILROAD BRIDGE MAINTENANCE REPAIRS.

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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 25
COUNTY ST. LOUIS CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

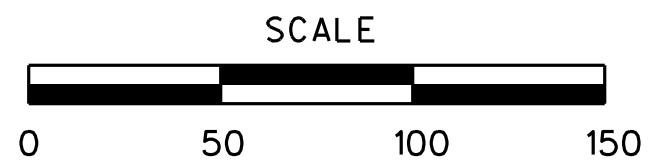
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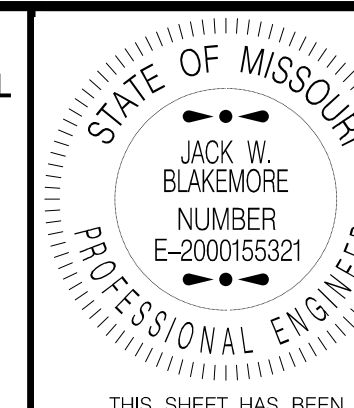
LEGEND:
 PAVEMENT REPLACEMENT - SEE DETAILS ON SPECIAL SHEET FOR MAINTENANCE REPAIRS ON I-55 AT LOUGHBOROUGH AVENUE

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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 22 OF 40



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ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 26

COUNTY
ST. LOUIS CITY

JOB NO.
J613187

CONTRACT ID.

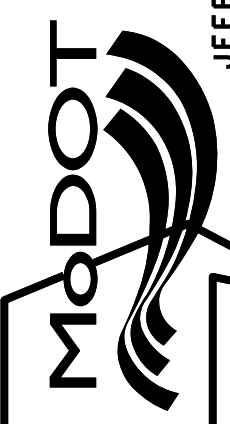
PROJECT NO.

BRIDGE NO.

- (A) REPLACE INLET TOP
- (B) REMOVE & REPLACE CONC. MEDIAN STRIP

DATE	DESCRIPTION

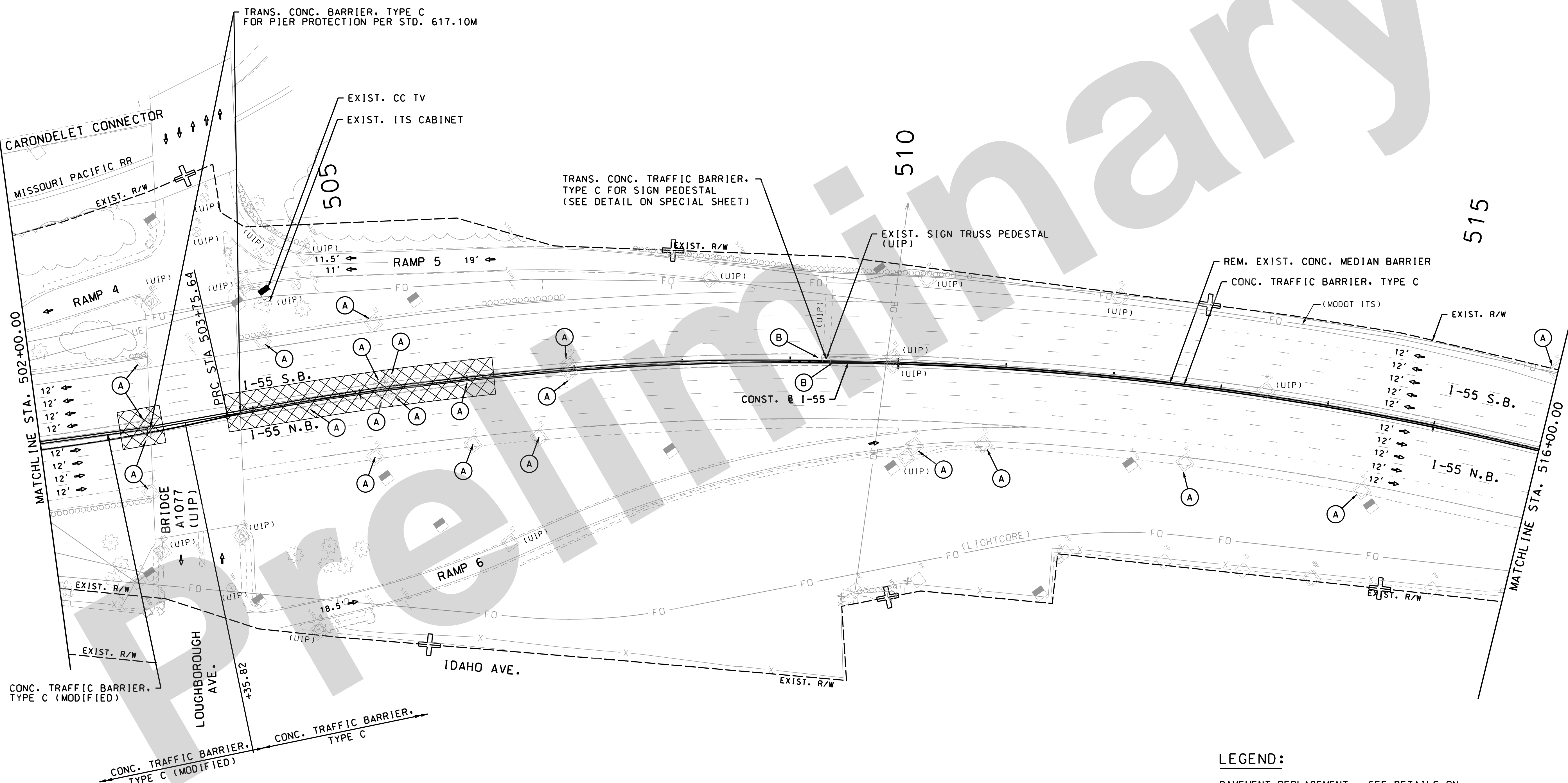
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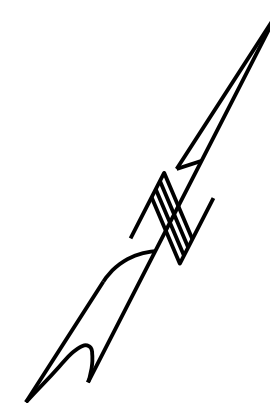
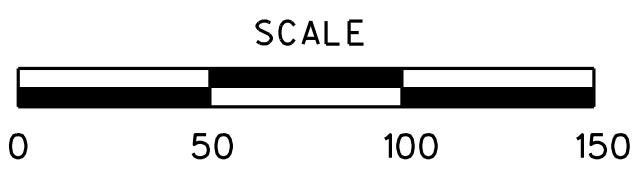


CURVE 55MAIN6	
PI	495+07.09
PCC	484+60.00
PRC	503+75.64
Δ	57° 27' 45.9" (LT)
D	2° 59' 58.8"
L	1,915.65'
T	1,047.10'
R	1,910.08'

CURVE 55MAIN7	
PI	515+78.78
PRC	503+75.64
PT	526+53.76
Δ	45° 33' 36.8" (RT)
D	1° 59' 59.6"
L	2,278.12'
T	1,203.14'
R	2,864.93'

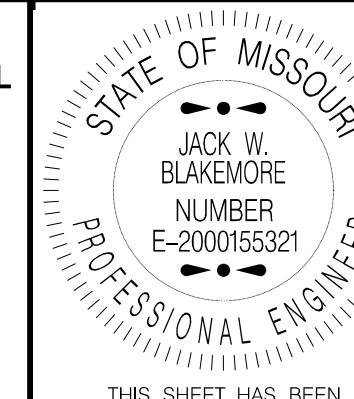
LEGEND:
 PAVEMENT REPLACEMENT - SEE DETAILS ON SPECIAL SHEET FOR MAINTENANCE REPAIRS ON I-55 AT LOUGHBOROUGH AVENUE.

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 23 OF 40



- (A) REPLACE INLET TOP
- (B) REMOVE & REPLACE CONC. MEDIAN STRIP

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ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 27

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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COMMISSION

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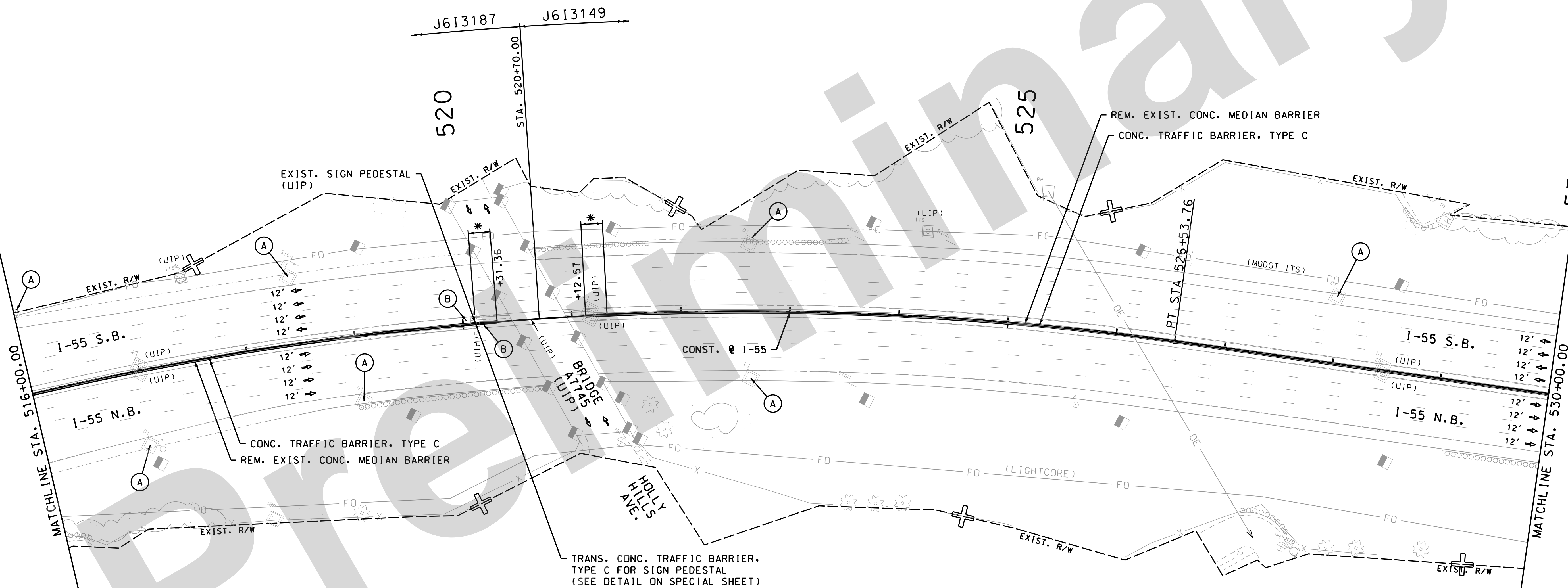
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05-AUG-2021

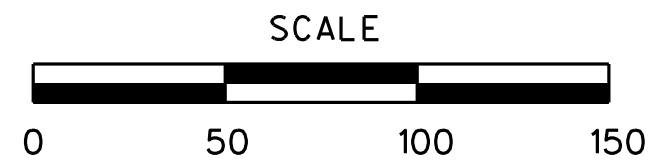
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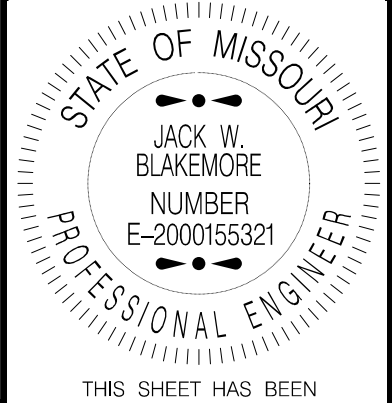
CURVE 55MAIN7	
PI	515+78.78
PRC	503+75.64
PT	526+53.76
Δ	45° 33' 36.8" (RT)
D	1° 59' 59.6"
L	2,278.12'
T	1,203.14'
R	2,864.93'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE PIER PROTECTION BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 24 OF 40



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05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 28

COUNTY
ST. LOUIS CITY

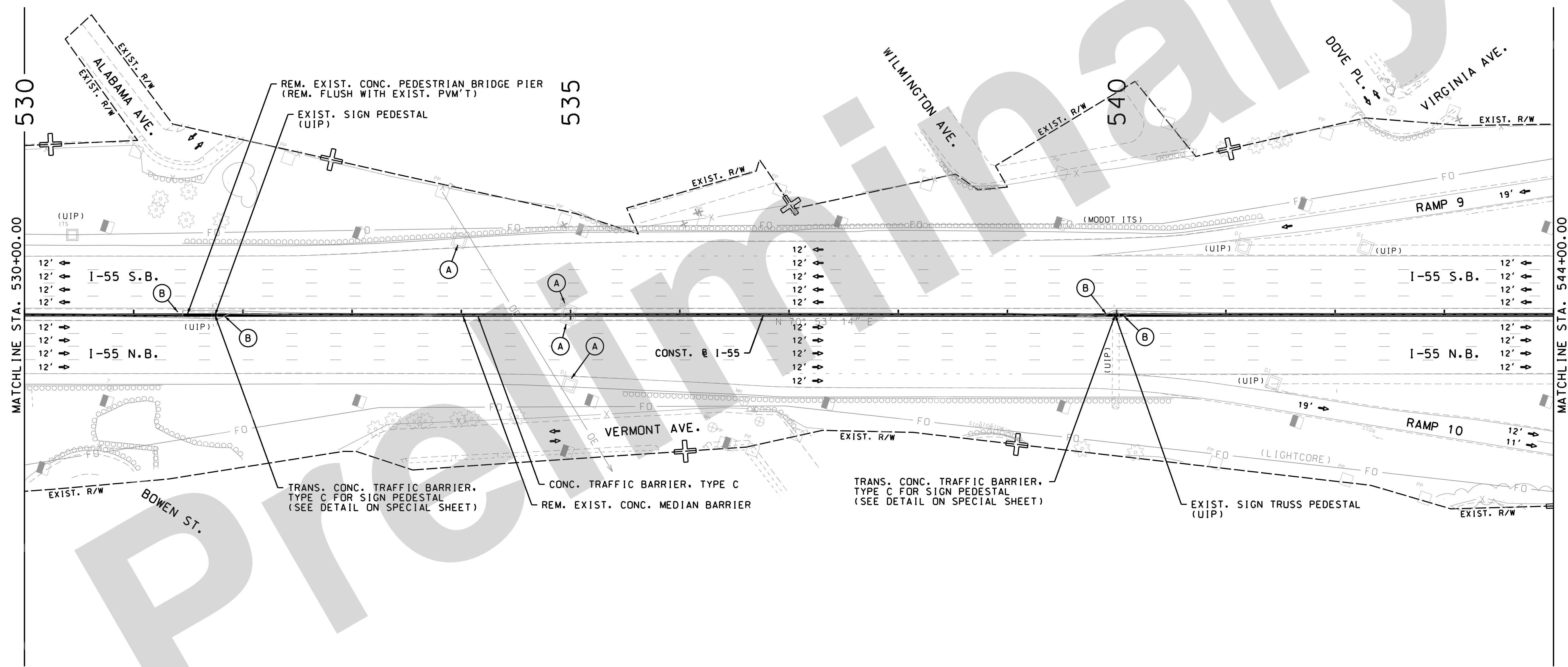
JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

- (A) REPLACE INLET TOP
- (B) REMOVE & REPLACE CONC. MEDIAN STRIP



DATE	DESCRIPTION

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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 25 OF 40

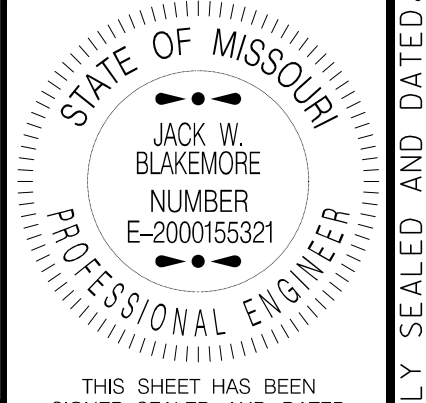
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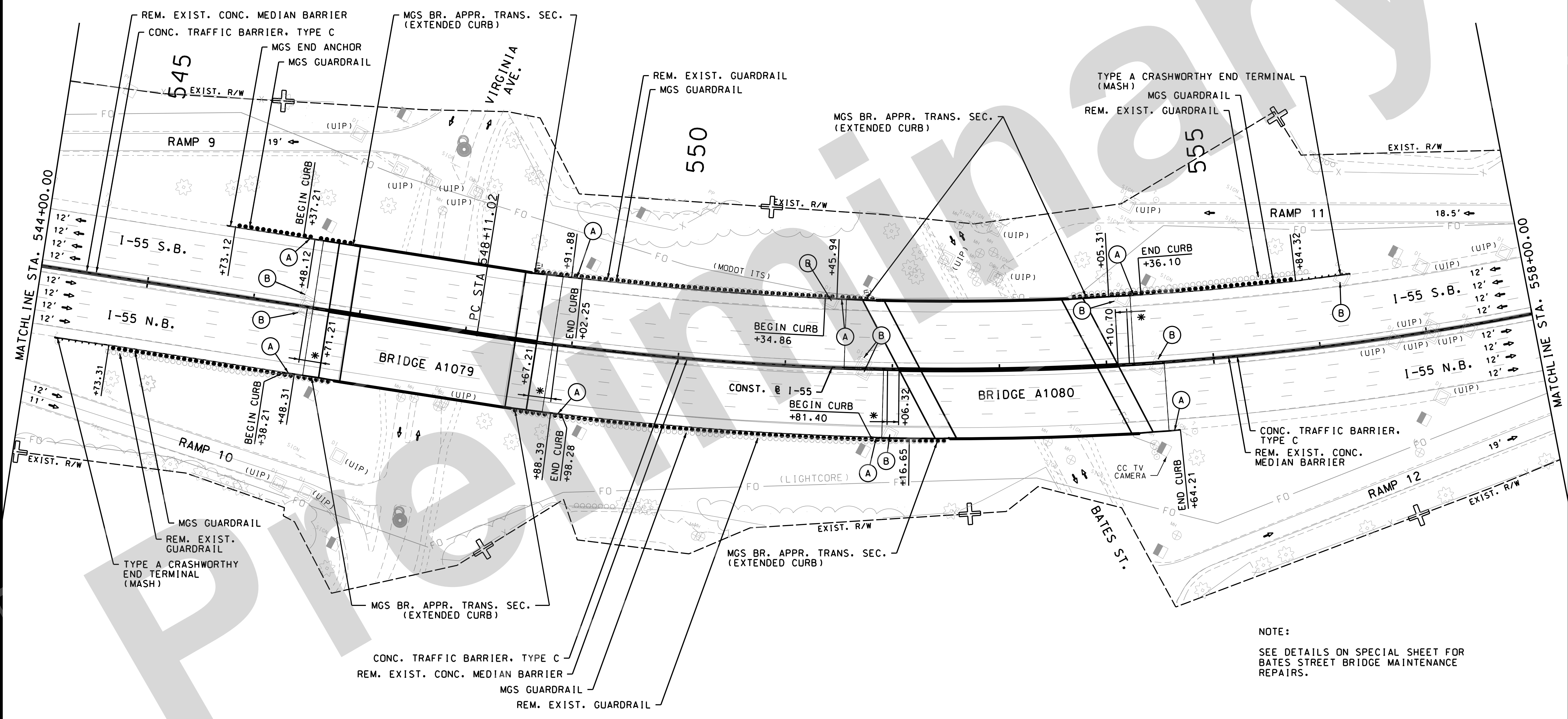
NOTE:
SEE DETAILS ON SPECIAL SHEET FOR VIRGINIA AVENUE BRIDGE MAINTENANCE REPAIRS.

- (A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (B) REPLACE INLET TOP

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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 29
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



CURVE 55MAIN8	
PI	560+54.20
PC	548+11.02
PT	571+56.88
Δ	46° 54' 53.7" (LT)
D	1' 59" 59.6"
L	2,345.86'
T	1,243.18'
R	2,864.93'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

NOTE:
SEE DETAILS ON SPECIAL SHEET FOR BATES STREET BRIDGE MAINTENANCE REPAIRS.

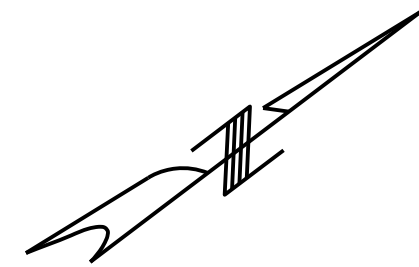
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

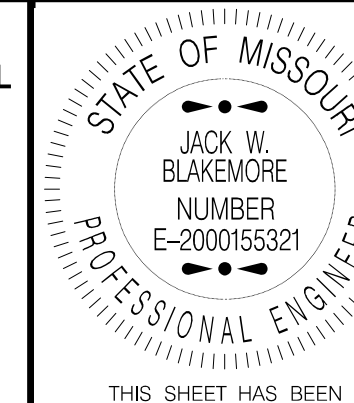
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(A) REMOVE & REPLACE CONC. MEDIAN STRIP

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 30

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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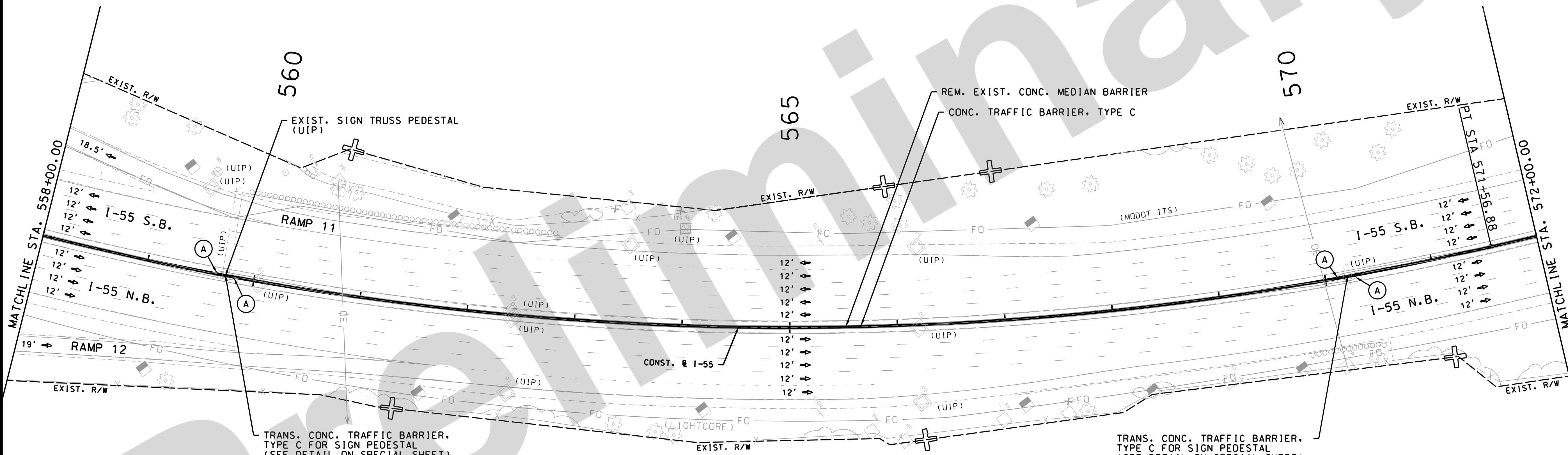
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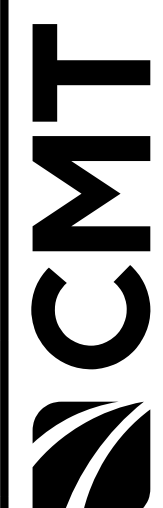
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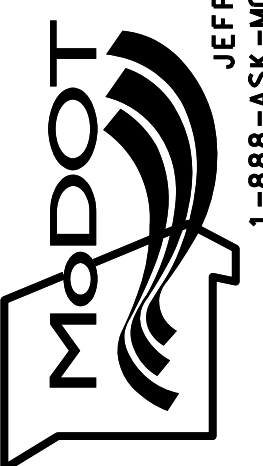


CURVE 55MA1N8	
PI	560+54.20
PC	548+11.02
PT	571+56.88
Δ	46° 54' 53.7" (LT)
D	1° 59' 59.6"
L	2,345.86'
T	1,243.18'
R	2,864.93'

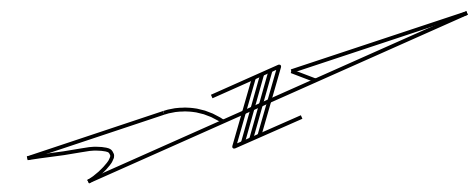
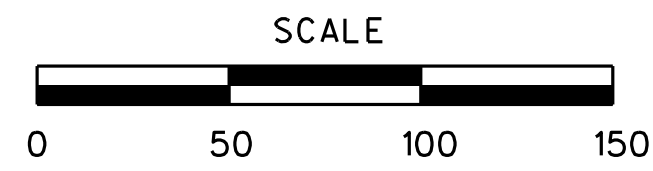
ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 27 OF 40



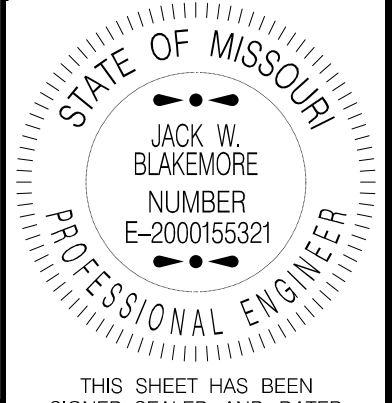
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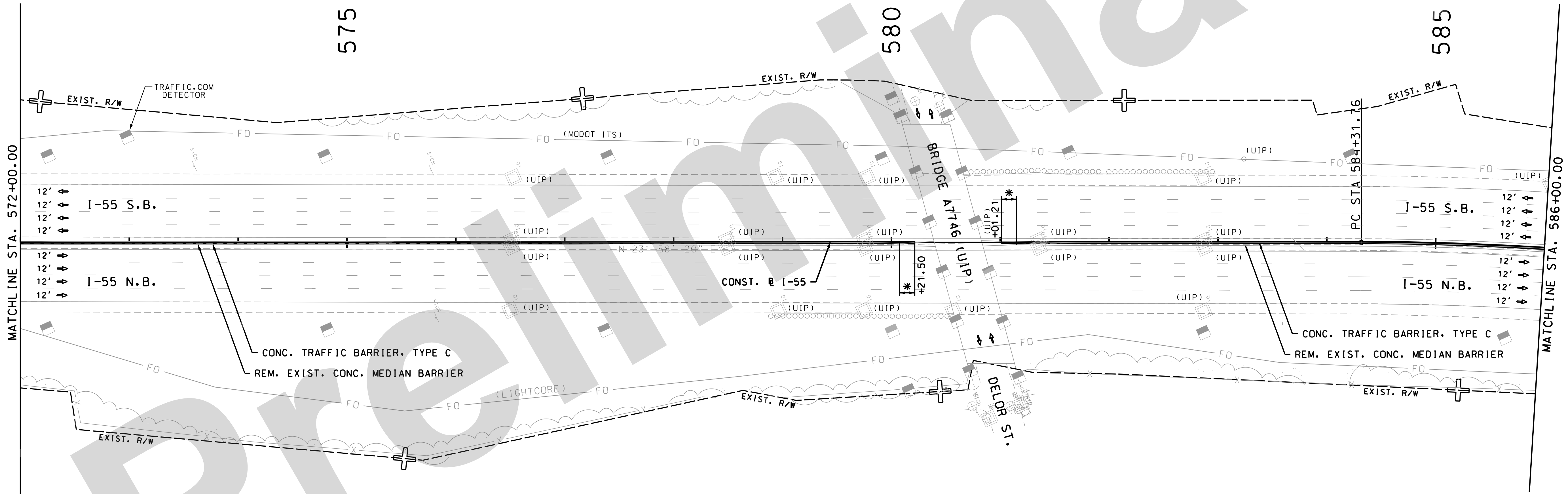
ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 31

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MATCHLINE STA. 572+00.00

MATCHLINE STA. 586+00.00

CURVE 55MAIN9	
PI	592+78.06
PC	584+31.76
PT	600+77.55
Δ	32° 54' 50.5" (RT)
D	1° 59' 59.6"
L	1,645.78'
T	846.29'
R	2,864.93'

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE PIER PROTECTION BARRIER USING A 40:1 MAXIMUM TRANSITION RATE. TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 28 OF 40

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

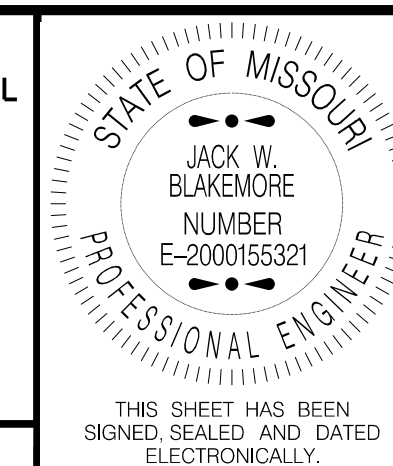
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(A) REMOVE & REPLACE CONC. MEDIAN STRIP

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 32

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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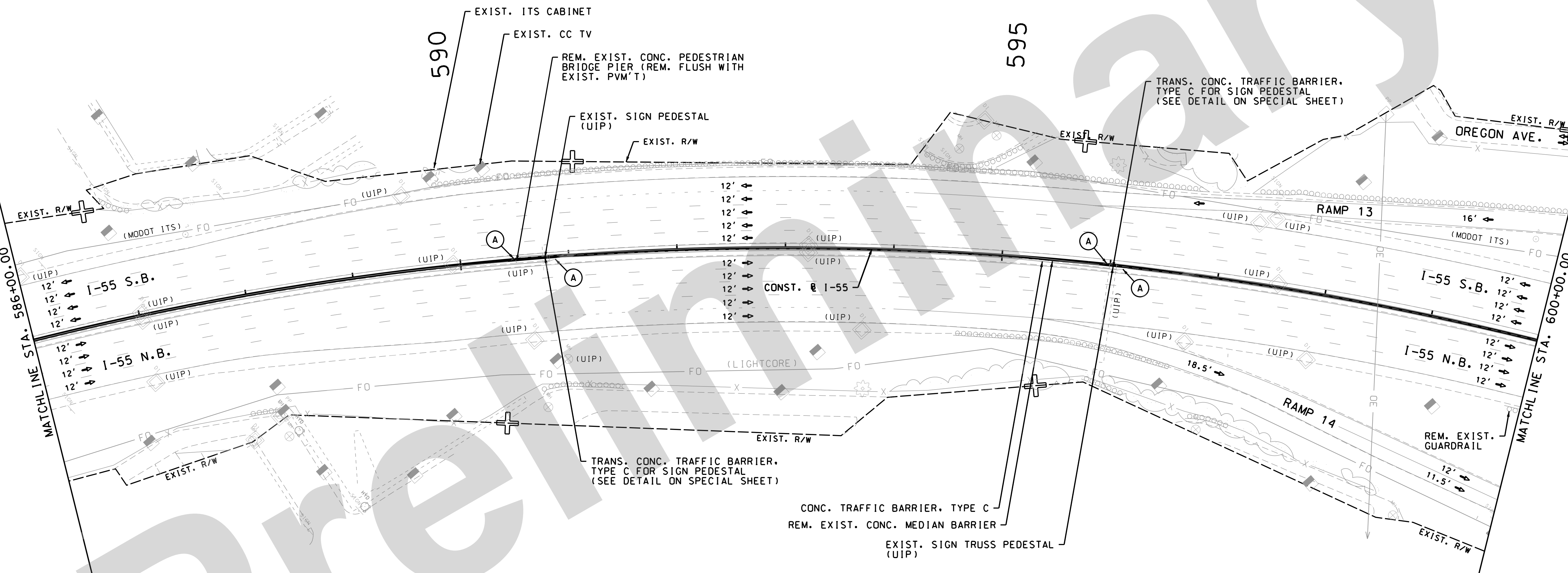
DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION



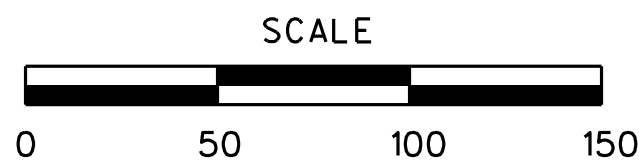
CURVE 55MAIN9	
PI	592+78.06
PC	584+31.76
PT	600+77.55
Δ	32° 54' 50.5" (RT)
D	1° 59' 59.6"
L	1,645.78'
T	846.29'
R	2,864.93'

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 29 OF 40

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



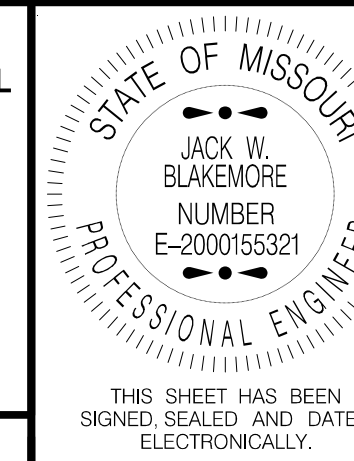
NOTE:
SEE DETAILS ON SPECIAL SHEET FOR
4500 SOUTH BROADWAY BRIDGE MAINTENANCE
REPAIRS.

- (A) MGS BR. APPR. TRANS. SEC.
(EXTENDED CURB)
- (B) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (C) REPLACE INLET TOP

CURVE 55MAIN9	
PI	592+78.06
PC	584+31.76
PT	600+77.55
Δ	32° 54' 50.5" (RT)
D	1° 59' 59.6"
L	1,645.78'
R	2,864.93'

CURVE 55MAIN10	
PI	611+32.26
PC	605+04.69
PT	617+40.32
Δ	24° 42' 41.0" (LT)
D	1° 59' 59.6"
L	1,235.63'
R	627.57'

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THE PROJECT TO WHICH THIS PAGE REFERS.



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 33

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

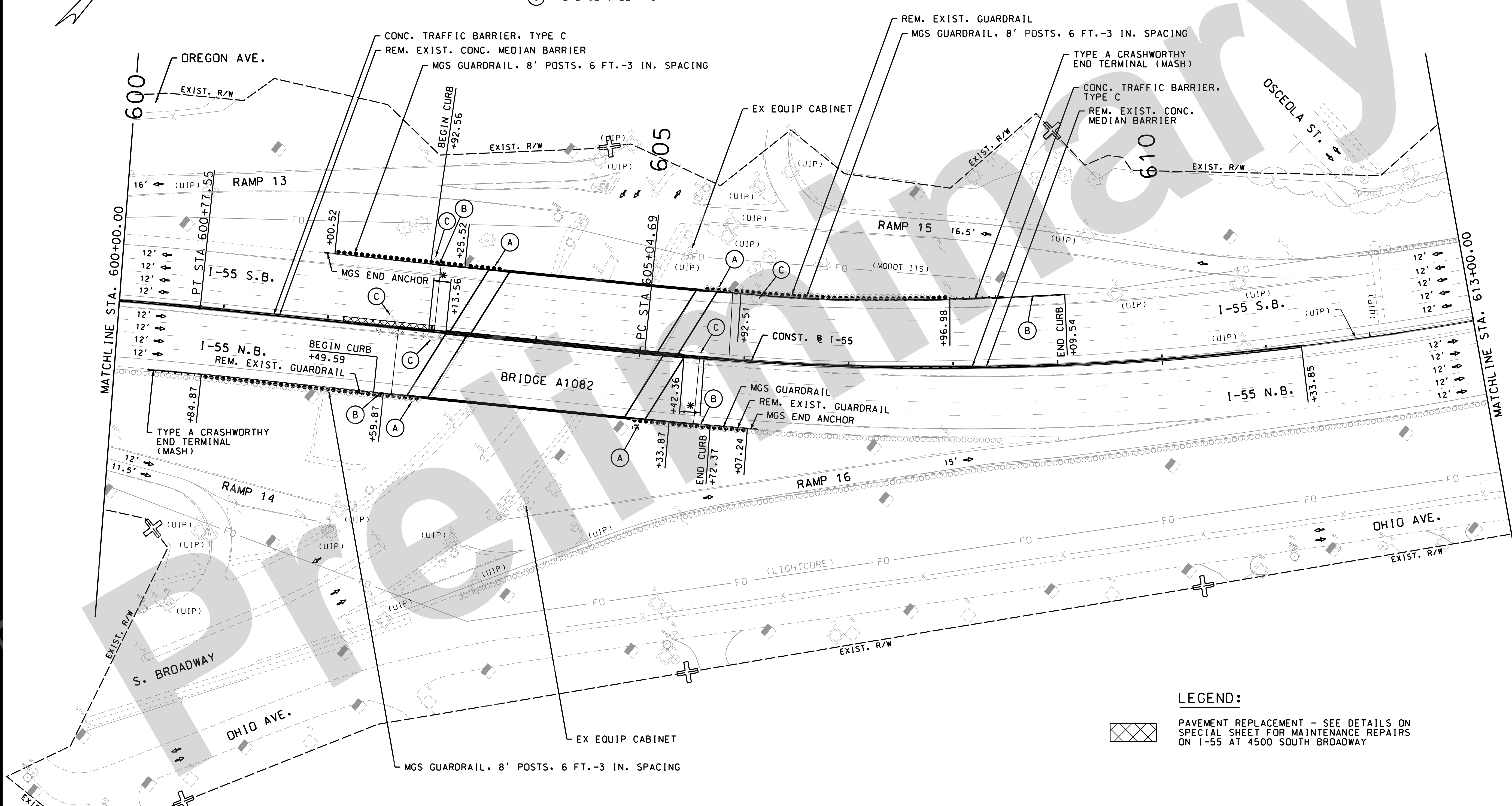


REVISIONS

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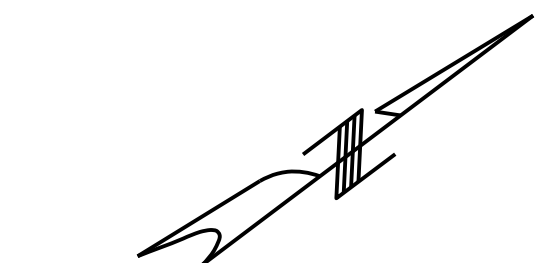
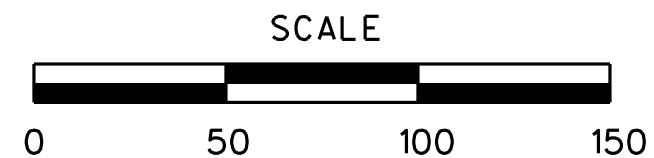
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



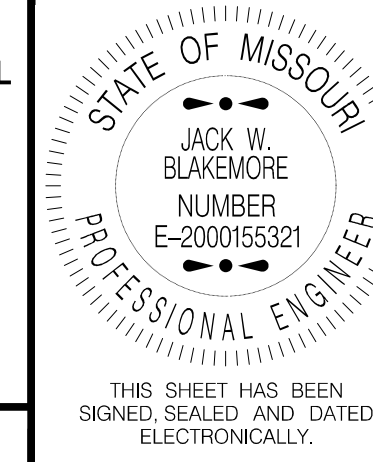
LEGEND:
[Symbol] PAVEMENT REPLACEMENT - SEE DETAILS ON
SPECIAL SHEET FOR MAINTENANCE REPAIRS
ON I-55 AT 4500 SOUTH BROADWAY

* TRANSITION CONCRETE TRAFFIC BARRIER, TYPE C TO MATCH BRIDGE
CONCRETE MEDIAN BARRIER USING A 40:1 MAXIMUM TRANSITION RATE.
TRANSITION TO BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 30 OF 40



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 34

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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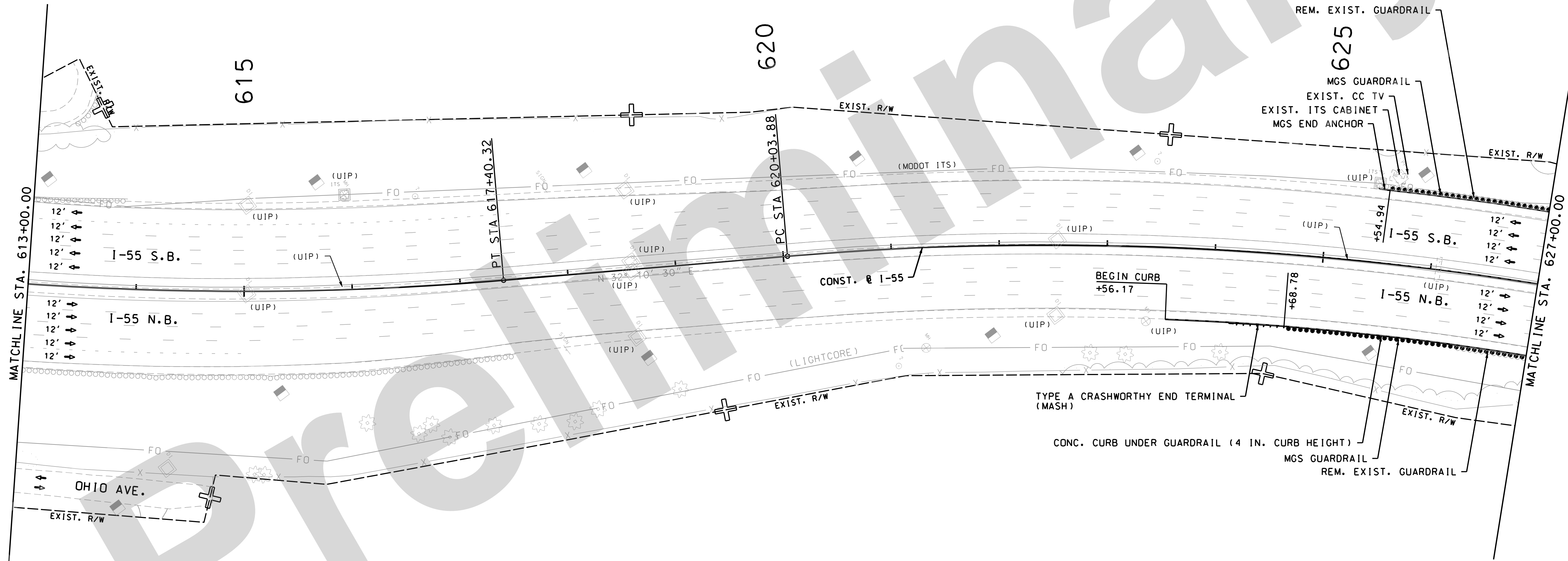
ONE MEMORIAL DRIVE, SUITE 500

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ENGINEERING CORPORATION - 000631

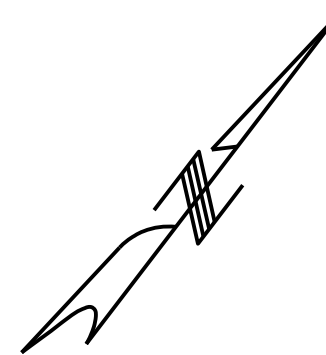
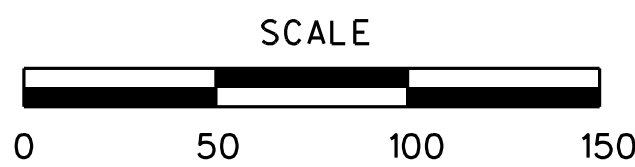
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



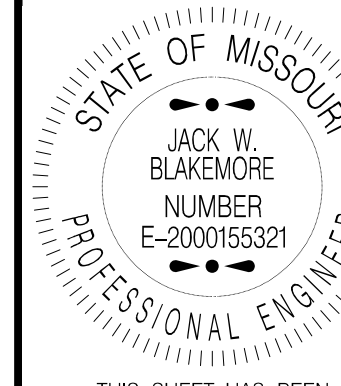
CURVE 55MAIN10		CURVE 55MAIN11	
PI	611+32.26	PI	625+18.70
PC	605+04.69	PC	620+03.88
PT	617+40.32	PT	630+22.65
Δ	24° 42' 41.0" (LT)	Δ	20° 22' 27.4" (RT)
D	1° 59' 59.6"	D	1° 59' 59.6"
L	1,235.63'	L	1,018.76'
T	627.57'	T	514.82'
R	2,864.93'	R	2,864.93'

ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 31 OF 40



- (A) MGS BR. APPR. TRANS. SEC. (EXTENDED CURB)
- (B) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (C) MILL CONCRETE LID - SEE DETAILS ON SPECIAL SHEET FOR GASCONADE STREET BRIDGE MAINTENANCE REPAIRS

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 35

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

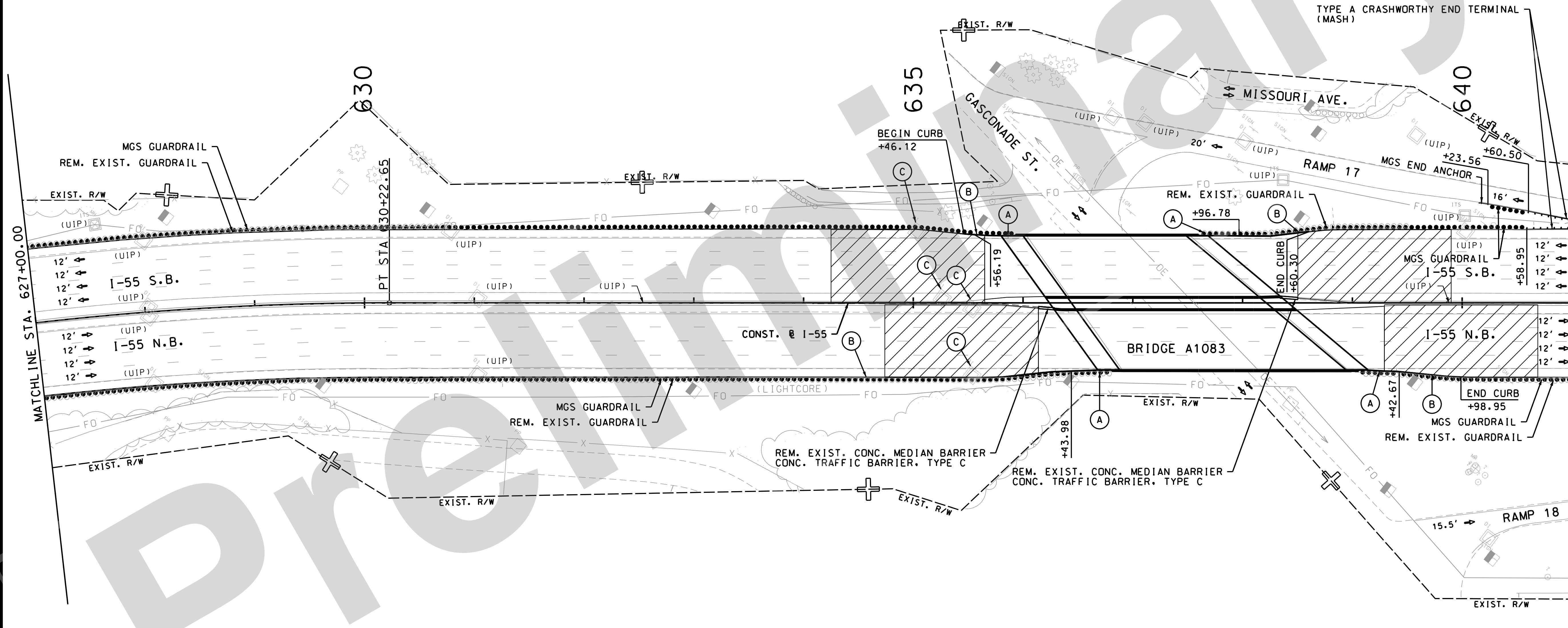
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NOTE:

SEE DETAILS ON SPECIAL SHEET FOR GASCONADE STREET BRIDGE MAINTENANCE REPAIRS.



CURVE 55MAIN11	
PI	625+18.70
PC	620+03.88
PT	630+22.65
Δ	20° 22' 27.4" (RT)
D	1° 59' 59.6"
L	1,018.76'
T	514.82'
R	2,864.93'

LEGEND:

MILL & FILL - SEE DETAILS ON SPECIAL SHEET FOR GASCONADE STREET BRIDGE MAINTENANCE REPAIRS

DATE	DESCRIPTION

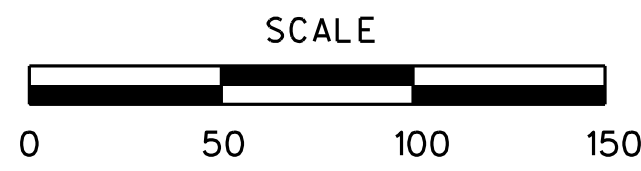
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

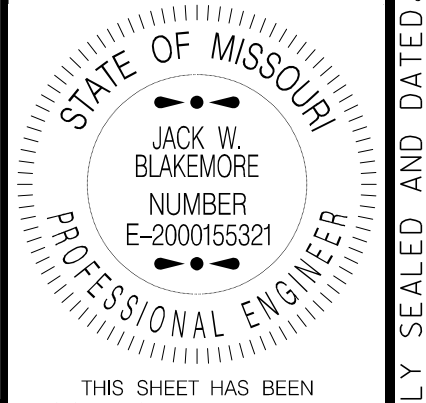
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 32 OF 40

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05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	36

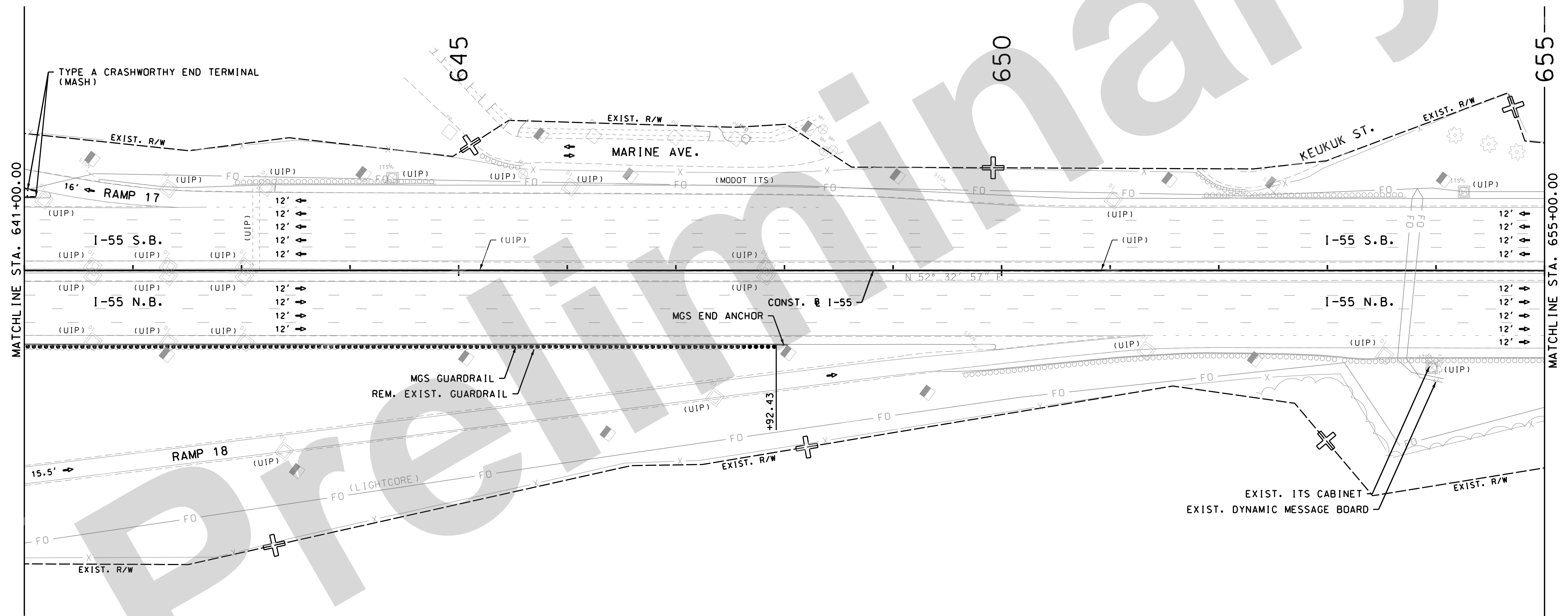
COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

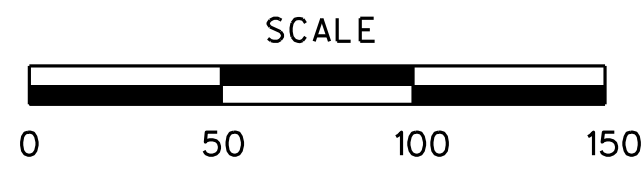
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JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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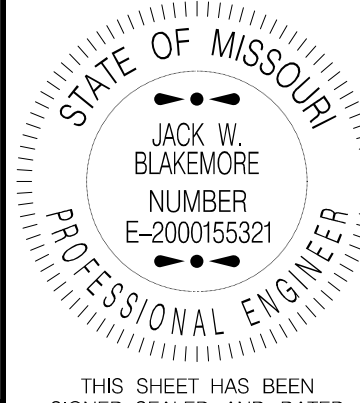
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ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 33 OF 40

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 37

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

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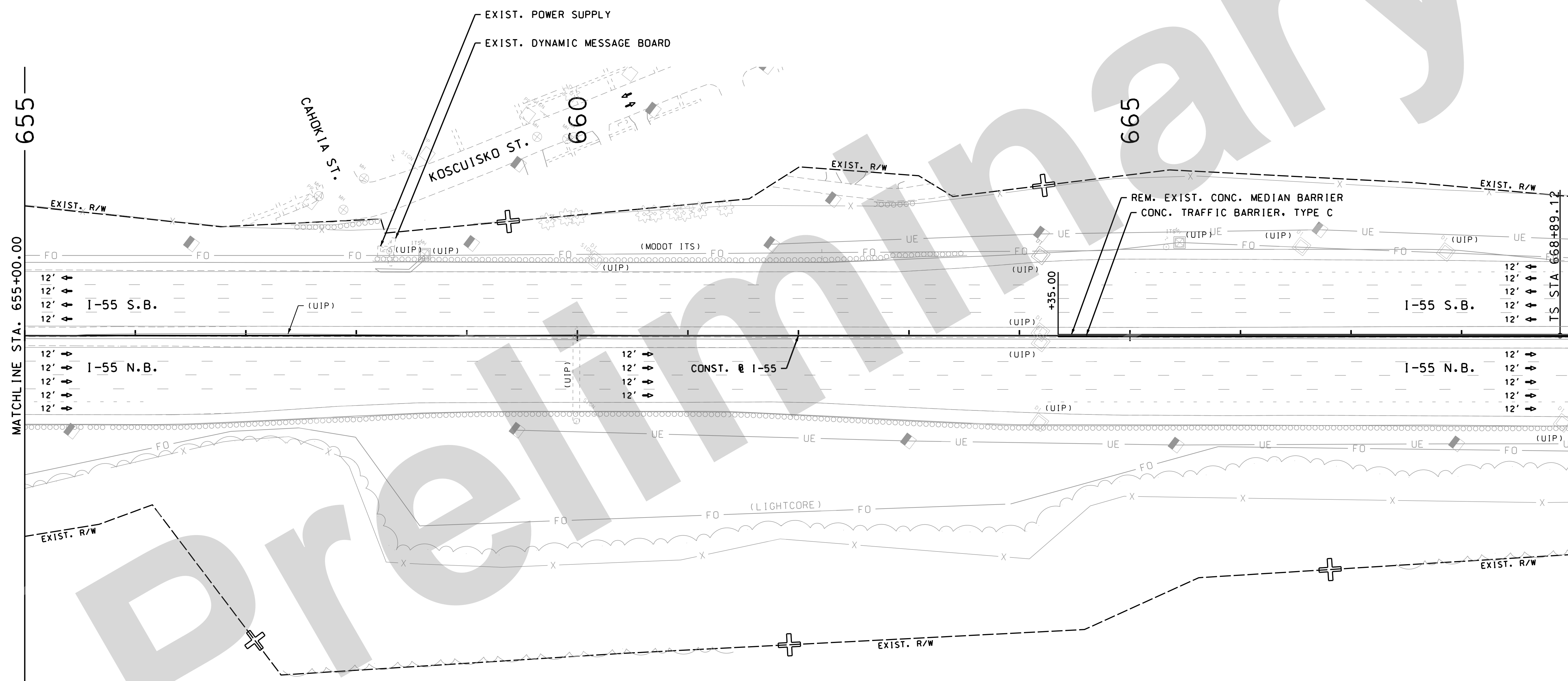
REV.

ROADWAY PLAN

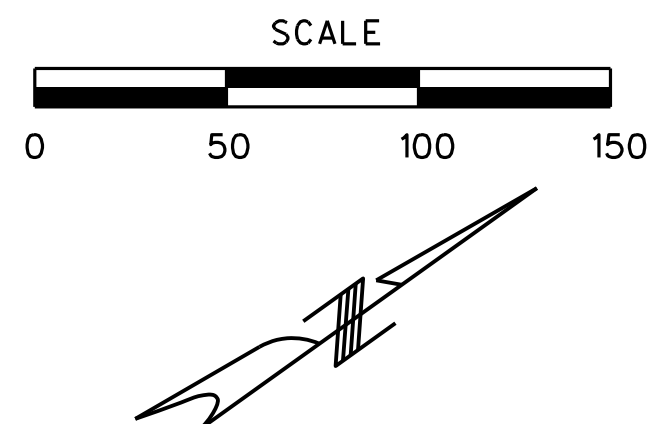
MEDIAN BARRIER AND GUARDRAIL

SHEET 34 OF 40

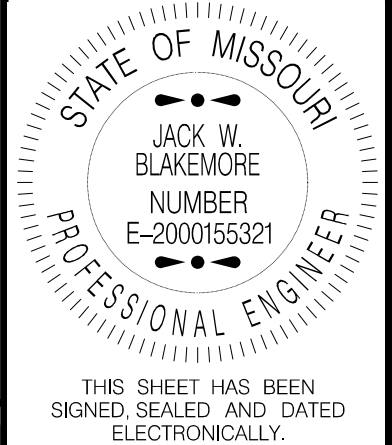
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SPIRAL 55MAIN12B	
PI	670+22.48
Ls	200.00'
Ys	3.49'
Xs	199.95'
LT	133.35'
ST	66.68'



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- (A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (B) MILL CONCRETE LID - SEE DETAILS ON SPECIAL SHEET FOR POTOMAC STREET BRIDGE MAINTENANCE REPAIRS

NOTE:
 SEE DETAILS ON SPECIAL SHEET FOR POTOMAC STREET BRIDGE MAINTENANCE REPAIRS.

DATE PREPARED
05-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 38

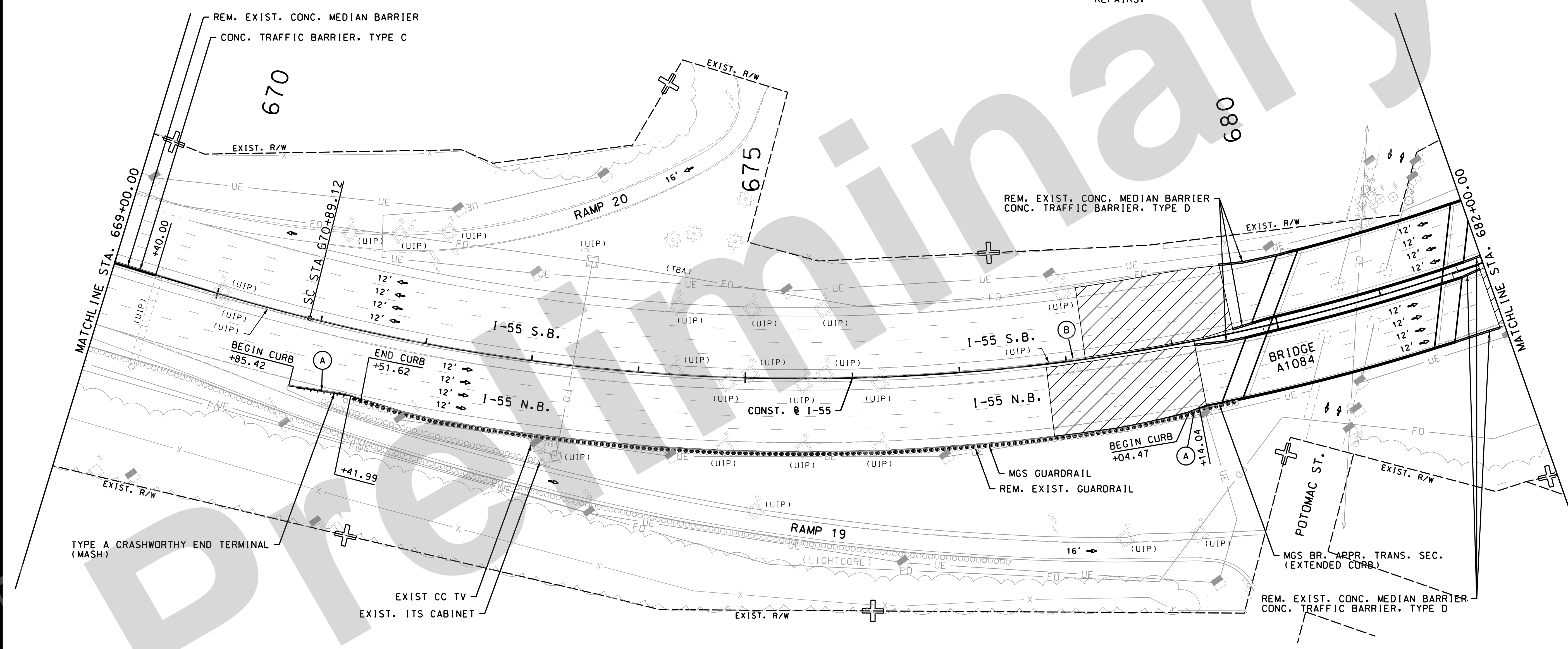
COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

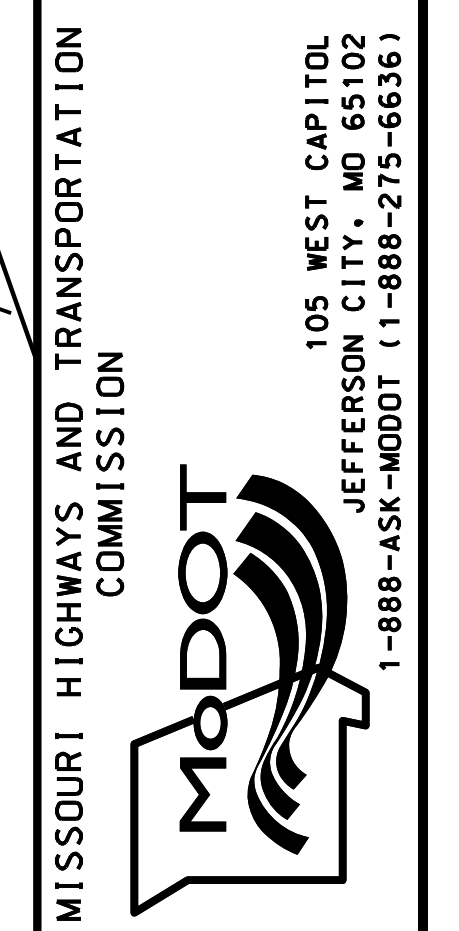
BRIDGE NO.



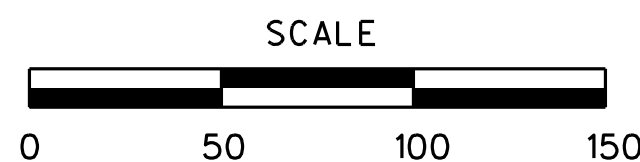
SPIRAL 55MAIN12B		CURVE 55MAIN12	
PI	670+22.48	TOTAL PI	685+83.16
Ls	200.00'	SC	670+89.12
Ys	3.49'	CS	695+45.00
Xs	199.95'	TOTAL Δ	79° 40' 01.5" (LT)
LT	133.35'	D	2° 59' 58.8"
ST	66.68'	LC	2,455.88'
		Ls	200.00'
		Ts	1,694.03'
		R	1,910.08'
		Bs	2° 59' 58.8"
		Xs	199.95'
		Ys	3.49'

LEGEND:
 MILL & FILL - SEE DETAILS ON SPECIAL SHEET FOR POTOMAC STREET BRIDGE MAINTENANCE REPAIRS

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 35 OF 40

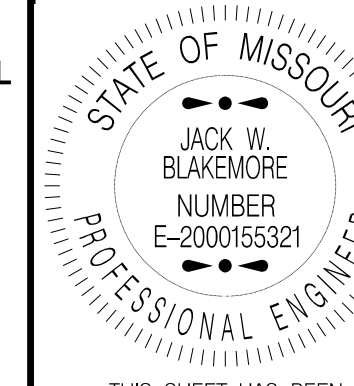


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 ENGINEERING CORPORATION - 000631



- (A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)
- (B) MILL CONCRETE LID - SEE DETAILS ON SPECIAL SHEET FOR POTOMAC STREET BRIDGE MAINTENANCE REPAIRS

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NOTE:
 SEE DETAILS ON SPECIAL SHEET FOR POTOMAC STREET BRIDGE MAINTENANCE REPAIRS.

NOTE:
 SEE DETAILS ON SPECIAL SHEET FOR 2ND STREET BRIDGE MAINTENANCE REPAIRS.

NOTE:
 SEE DETAILS ON SPECIAL SHEET FOR 3200 SOUTH BROADWAY BRIDGE MAINTENANCE REPAIRS.

DATE PREPARED
03-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 39

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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DESCRIPTION

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DESCRIPTION

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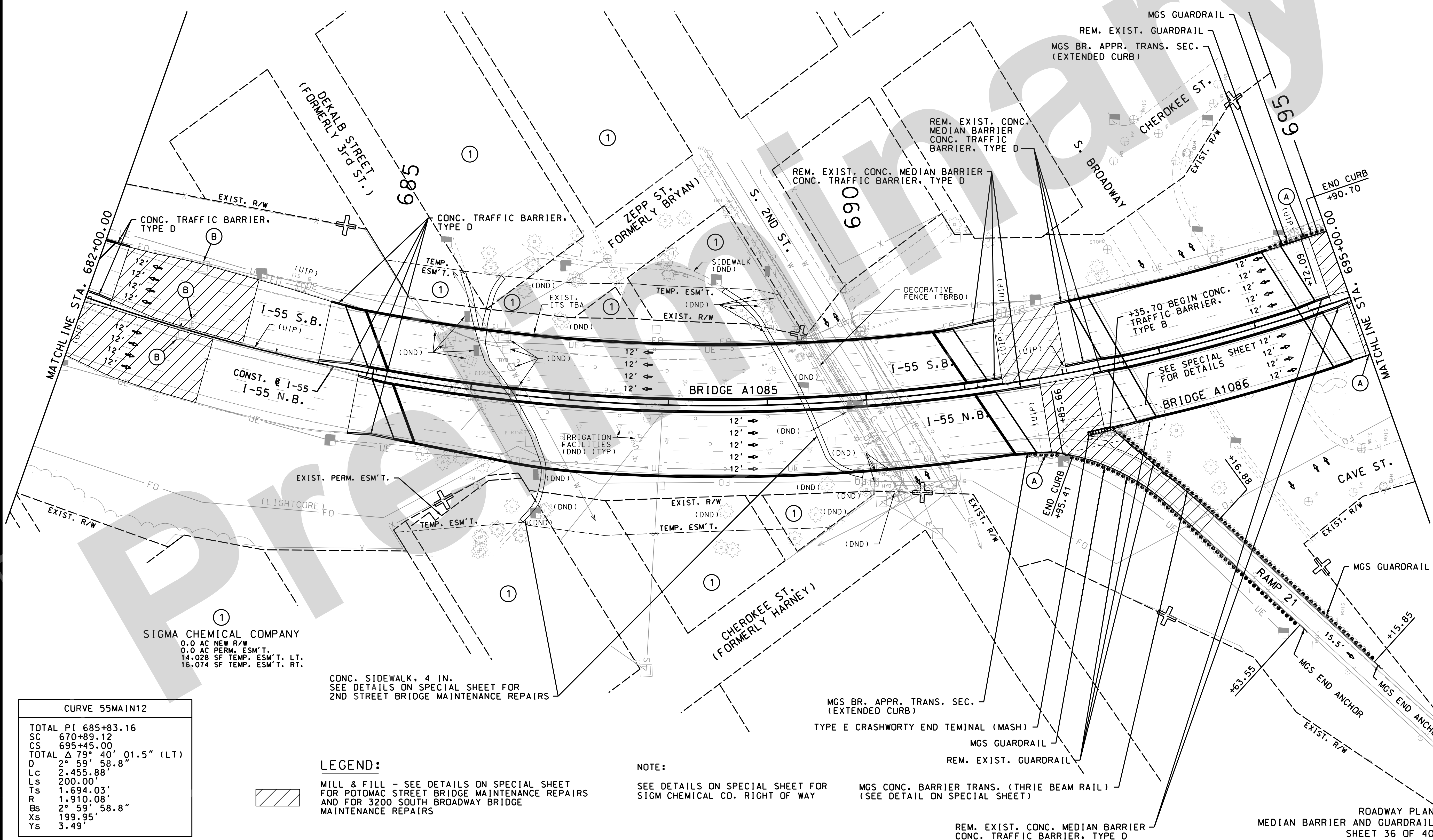
DATE

DESCRIPTION

DATE

DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SIGMA CHEMICAL COMPANY
 0.0 AC NEW R/W
 0.0 AC PERM. ESM'T.
 14.028 SF TEMP. ESM'T. LT.
 16.074 SF TEMP. ESM'T. RT.

CONC. SIDEWALK, 4 IN.
 SEE DETAILS ON SPECIAL SHEET FOR 2ND STREET BRIDGE MAINTENANCE REPAIRS

CURVE 55MAIN12	
TOTAL PI	685+83.16
SC	670+89.12
CS	695+45.00
TOTAL Δ	79° 40' 01.5" (LT)
D	2° 59' 58.8"
LC	2,455.88'
Ls	200.00'
Ts	1,694.03'
R	1,910.08'
Bs	2° 59' 58.8"
Xs	199.95'
Ys	3.49'

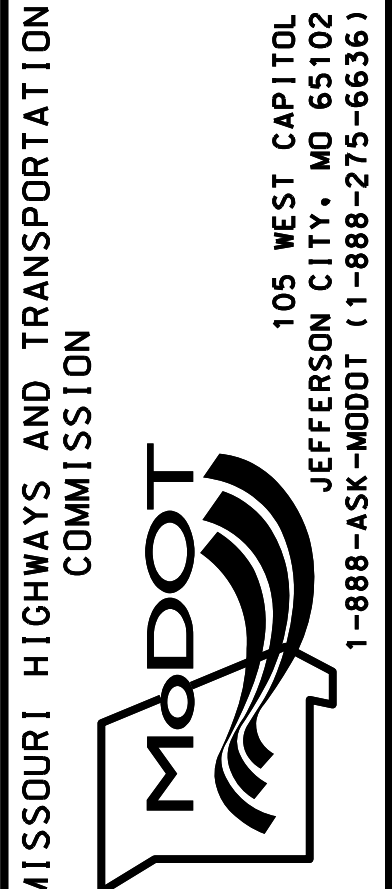
LEGEND:
 MILL & FILL - SEE DETAILS ON SPECIAL SHEET FOR POTOMAC STREET BRIDGE MAINTENANCE REPAIRS AND FOR 3200 SOUTH BROADWAY BRIDGE MAINTENANCE REPAIRS

NOTE:
 SEE DETAILS ON SPECIAL SHEET FOR SIGM CHEMICAL CO. RIGHT OF WAY

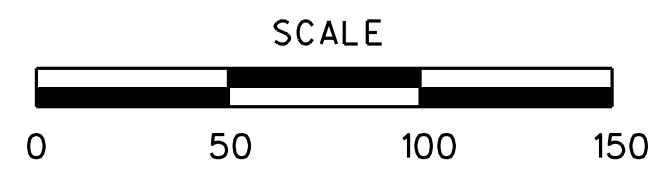
MGS CONC. BARRIER TRANS. (THRIE BEAM RAIL)
 (SEE DETAIL ON SPECIAL SHEET)

REM. EXIST. CONC. MEDIAN BARRIER
 CONC. TRAFFIC BARRIER, TYPE D

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 36 OF 40

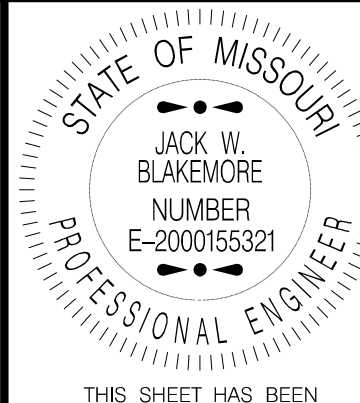


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(A) CONC. CURB UNDER GUARDRAIL (4 IN. CURB HEIGHT)

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 40

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

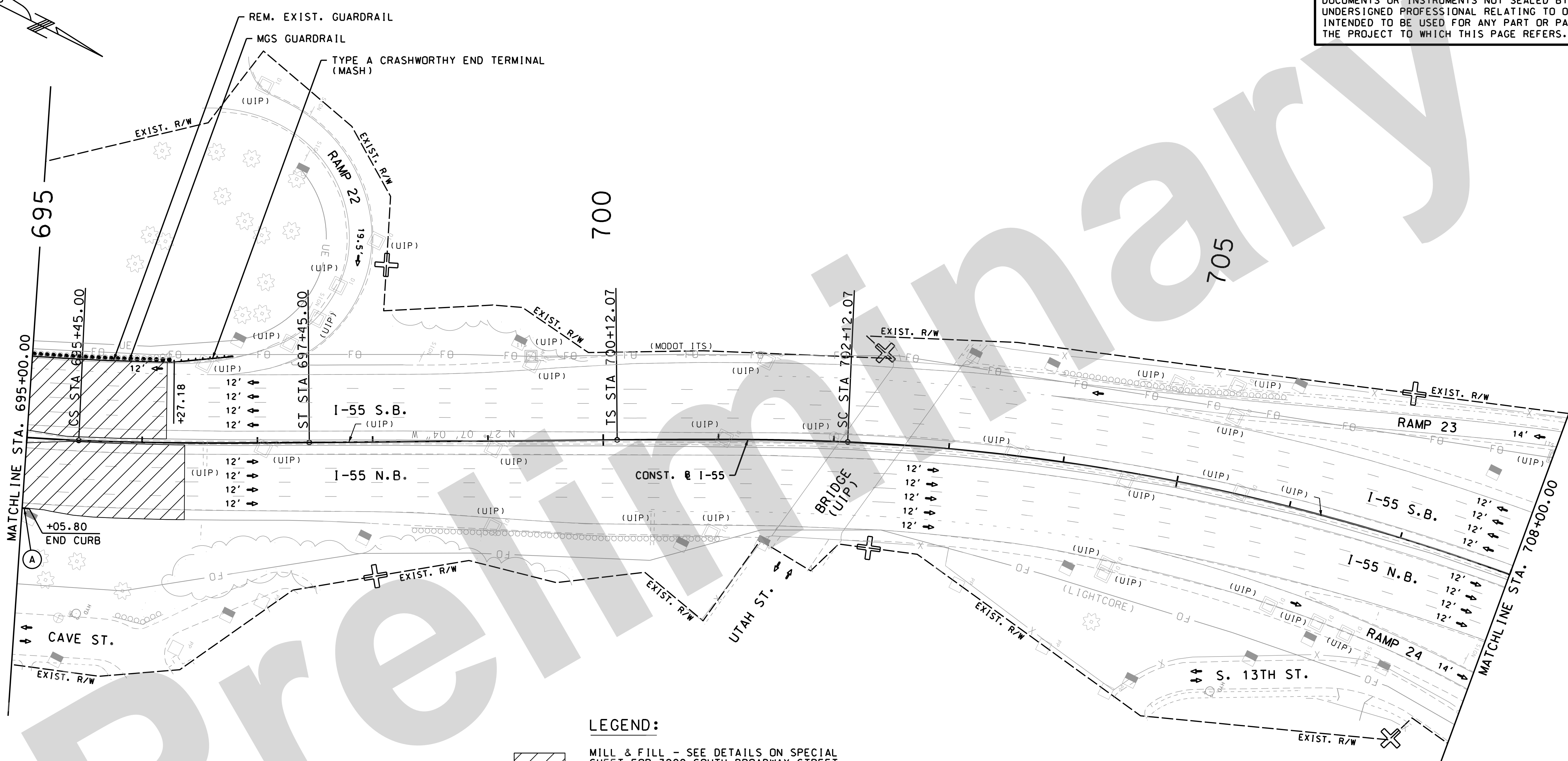
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

ENGINEERING CORPORATION - 000631

REV.

05-AUG-2021



LEGEND:
 MILL & FILL - SEE DETAILS ON SPECIAL SHEET FOR 3200 SOUTH BROADWAY STREET BRIDGE MAINTENANCE REPAIRS

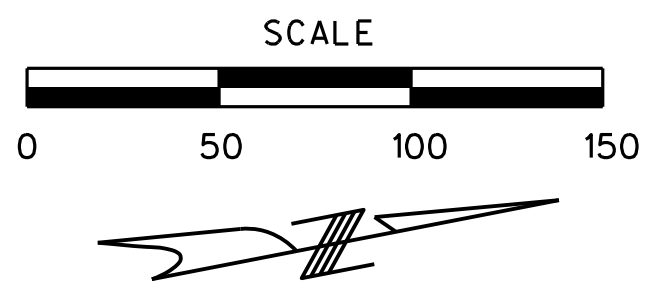
SPIRAL	55MAIN12A
PI	696+11.68
Ls	200.00'
Ys	3.49'
Xs	199.95'
LT	133.35'
ST	66.68'

SPIRAL	55MAIN13B
PI	701+45.43
Ls	200.00'
Ys	3.49'
Xs	199.95'
LT	133.35'
ST	66.68'

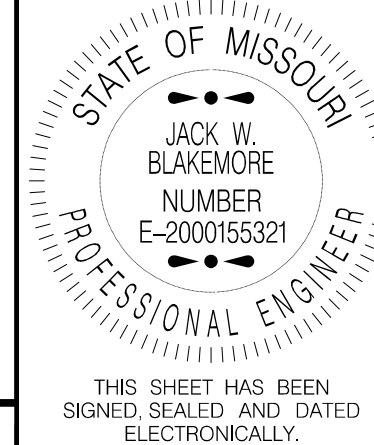
CURVE	55MAIN12
TOTAL PI	685+83.16
SC	670+89.12
CS	695+45.00
TOTAL Δ	79° 40' 01.5" (LT)
D	2° 59' 58.8"
Lc	2,455.88'
Ls	200.00'
Ts	1,694.03'
R	1,910.08'
Bs	2° 59' 58.8"
Xs	199.95'
Ys	3.49'

CURVE	55MAIN13
TOTAL PI	707+71.35
SC	702+12.07
CS	712+81.20
TOTAL Δ	38° 04' 09.2" (RT)
D	2° 59' 58.8"
Lc	1,069.12'
Ls	200.00'
Ts	759.28'
R	1,910.08'
Bs	2° 59' 58.8"
Xs	199.95'
Ys	3.49'

ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 37 OF 40



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 41

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

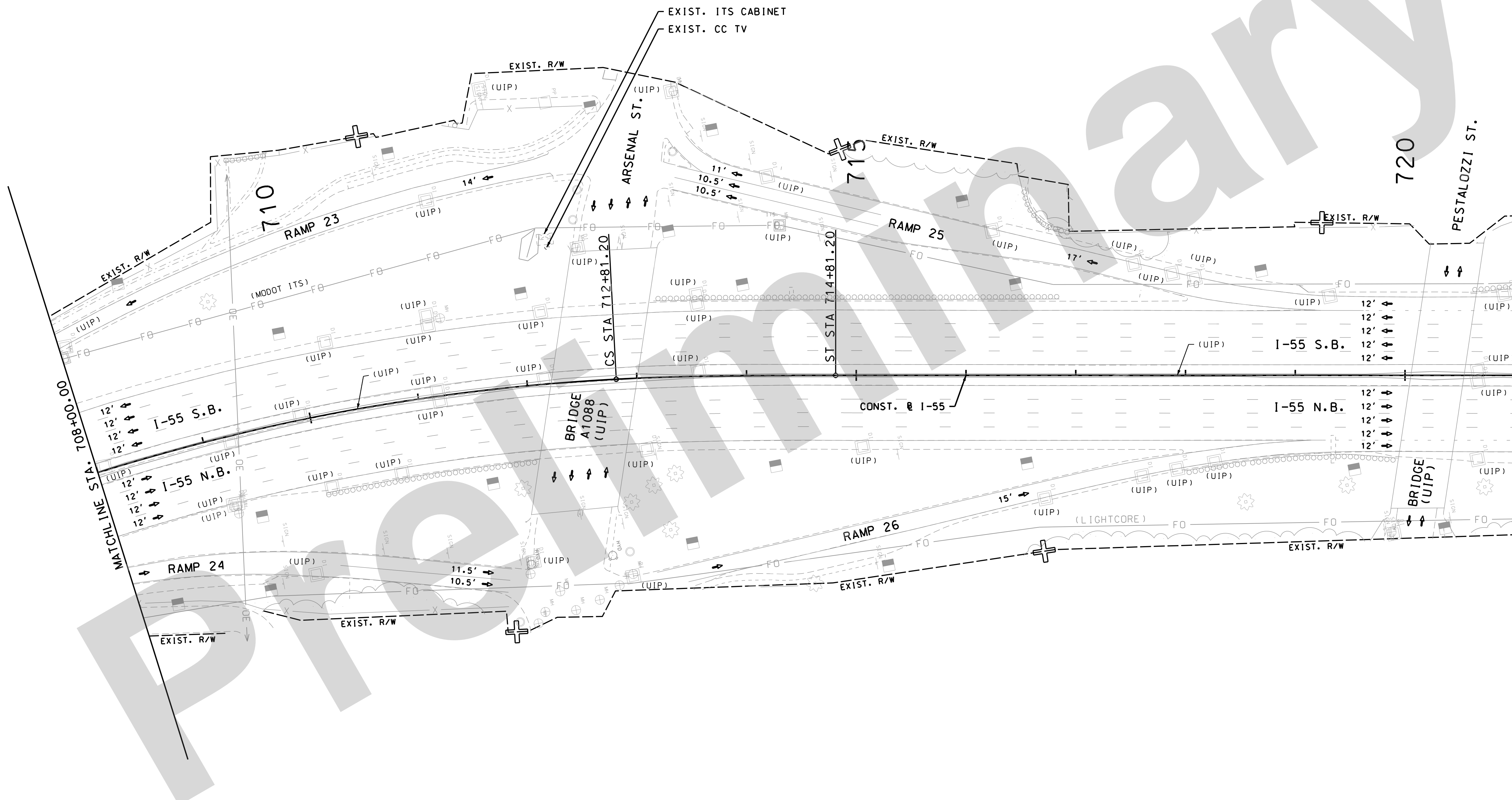
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



REV. 05-AUG-2021



CURVE 55MAIN13	
TOTAL PI	707+71.35
SC	702+12.07
CS	712+81.20
TOTAL Δ	38° 04' 09.2" (RT)
D	2° 59' 58.8"
Lc	1,069.12'
Ls	200.00'
Ts	759.28'
R	1,910.08'
Os	2° 59' 58.8"
Xs	199.95'
Ys	3.49'

SPIRAL 55MAIN13A	
PI	713+47.88
Ls	200.00'
Ys	3.49'
Xs	199.95'
LT	133.35'
ST	66.68'

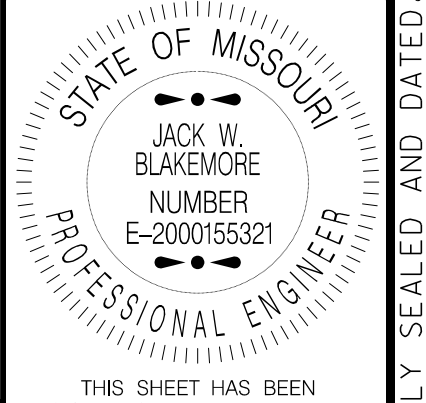
ROADWAY PLAN
MEDIAN BARRIER AND GUARDRAIL
SHEET 38 OF 40

SCALE



(A) REPLACE INLET TOP

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DATE PREPARED
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ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 42

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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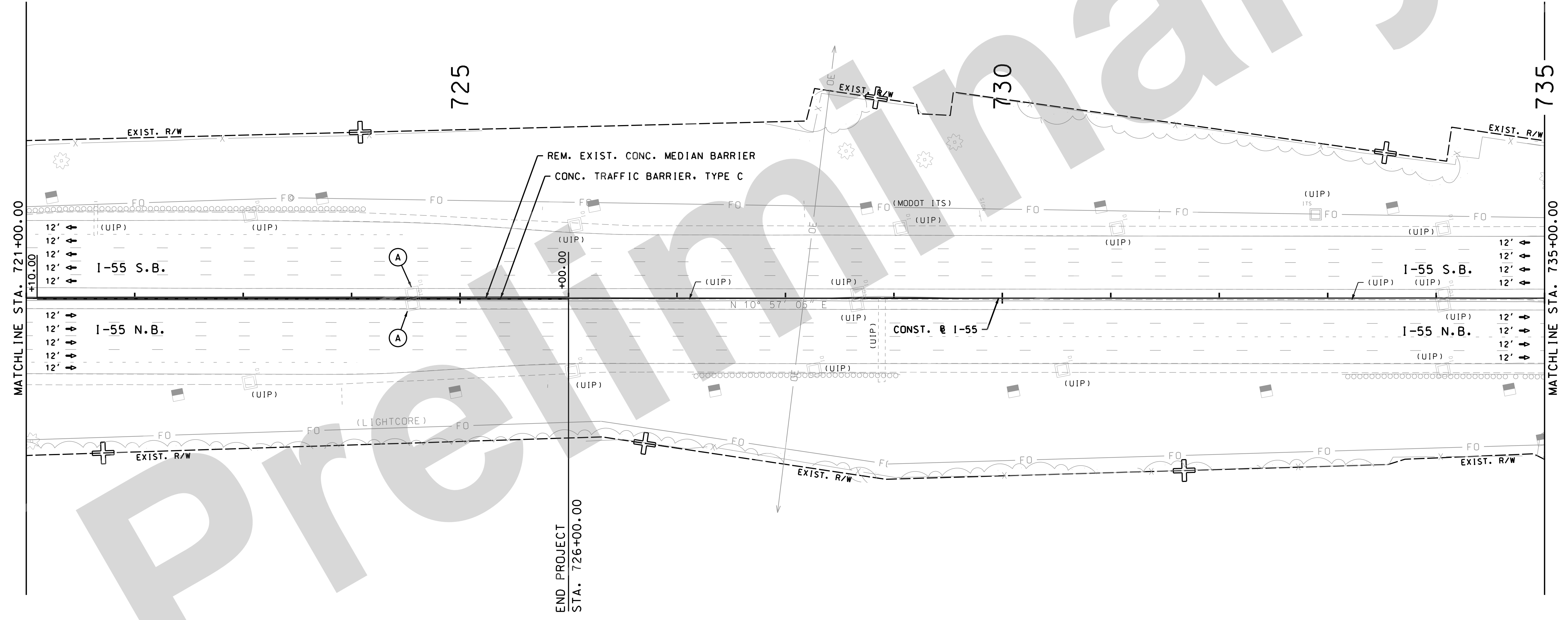
DESCRIPTION

DATE

DESCRIPTION

DATE

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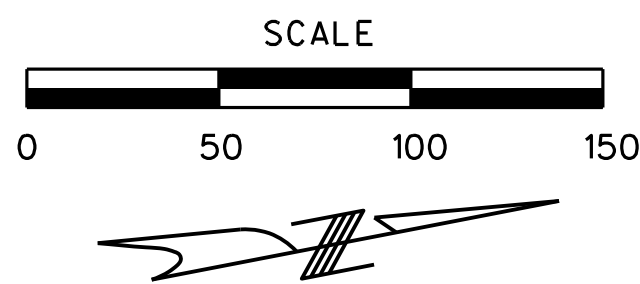


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

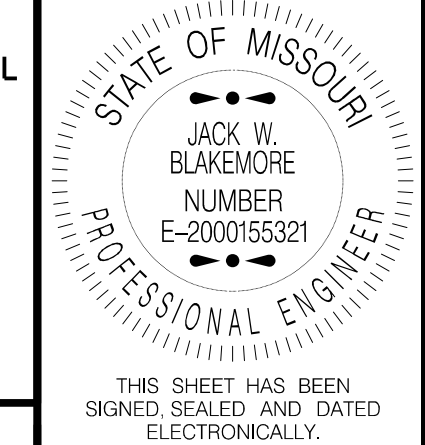
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ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 39 OF 40



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DATE PREPARED
05-AUG-2021

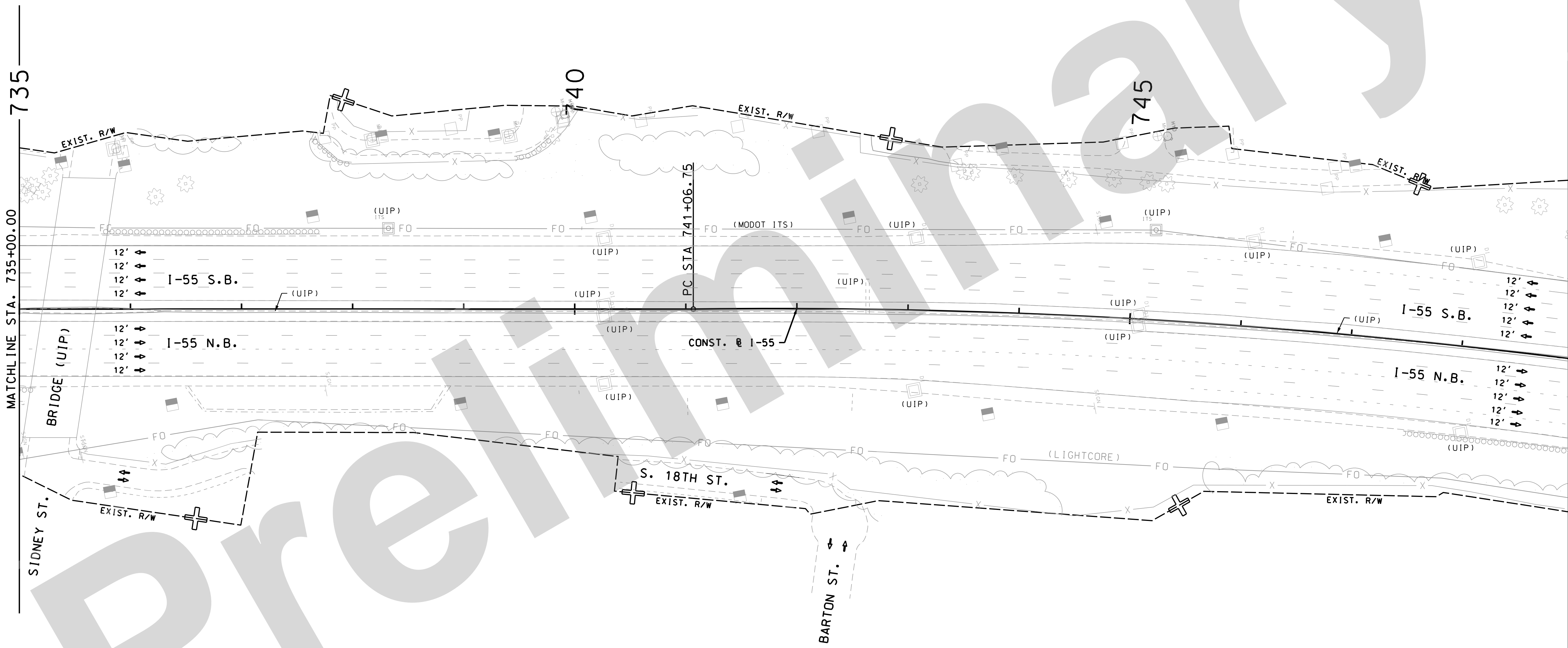
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 43

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

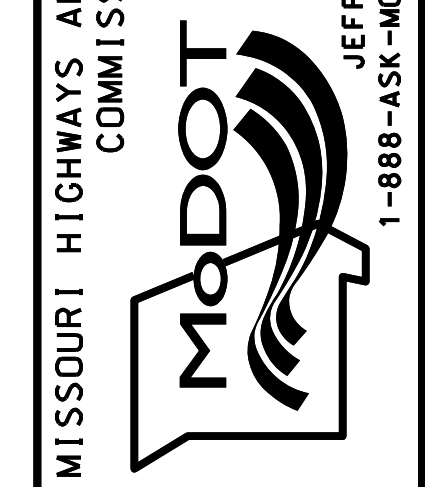
PROJECT NO.
 BRIDGE NO.



DESCRIPTION	DATE

CURVE 55MAIN14	
PI	746+61.47
PC	741+06.75
PT	752+12.74
Δ	11° 03' 35.2" (RT)
D	1° 00' 00.0"
L	1,105.99'
T	554.72'
R	5,729.65'

ROADWAY PLAN
 MEDIAN BARRIER AND GUARDRAIL
 SHEET 40 OF 40

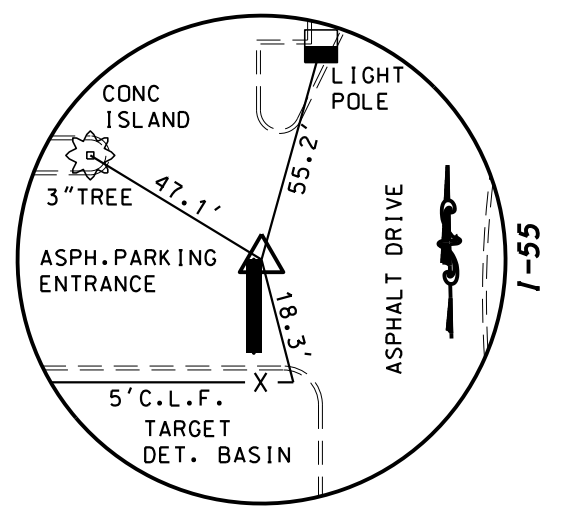


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

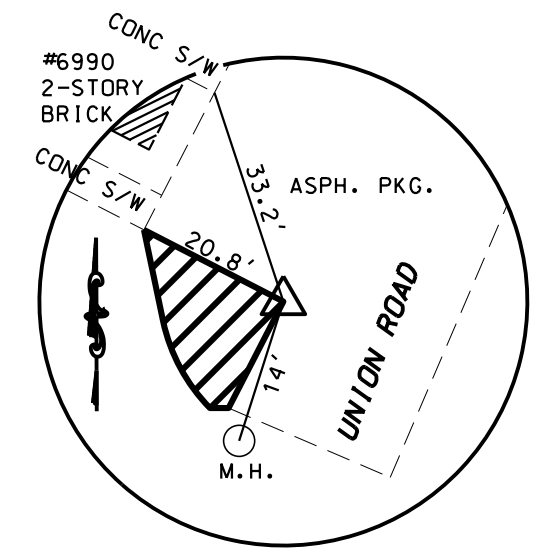
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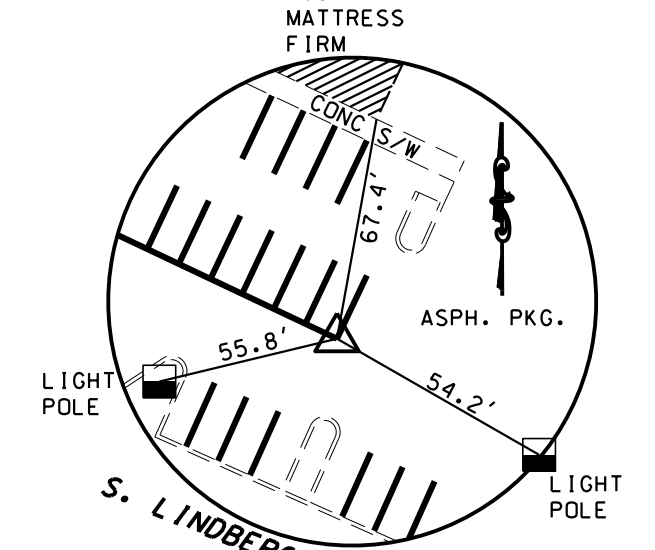
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



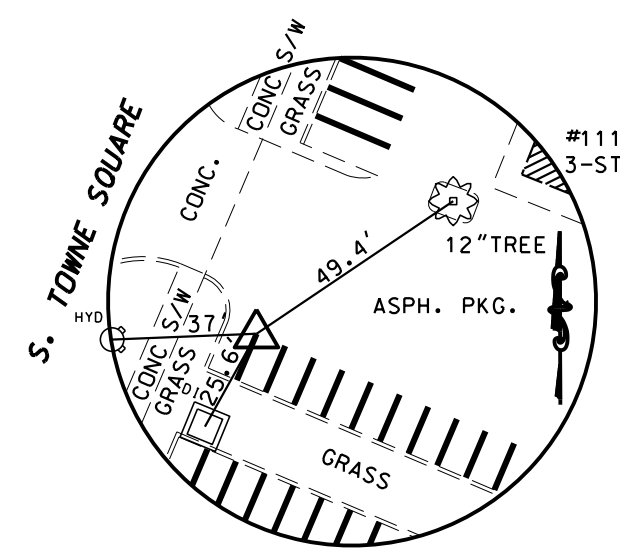
CONTROL POINT CNT 1
PK NAIL @
NE CORNER STOP BAR STRIPE
N: 973451.411
E: 866622.527
ELEV: 564.16
STA 186+71.46 223.34'LT
I-55



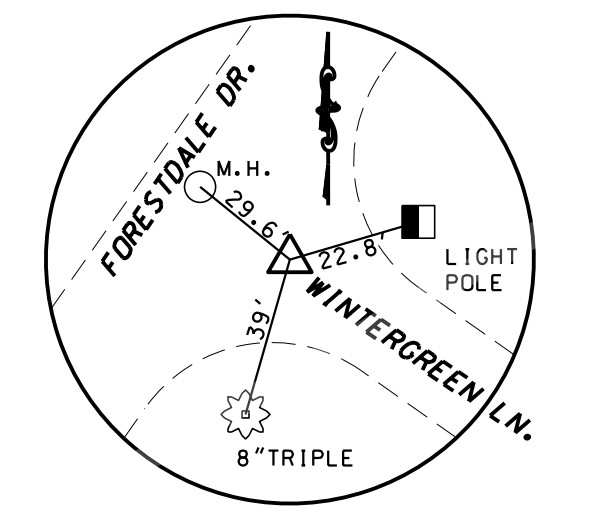
CONTROL POINT CNT 2
PK NAIL @
CORNER PARKING HATCH
AREA STRIPE
N: 973167.761
E: 867304.474
ELEV: 549.05
STA 185+49.58 505.12'RT
I-55



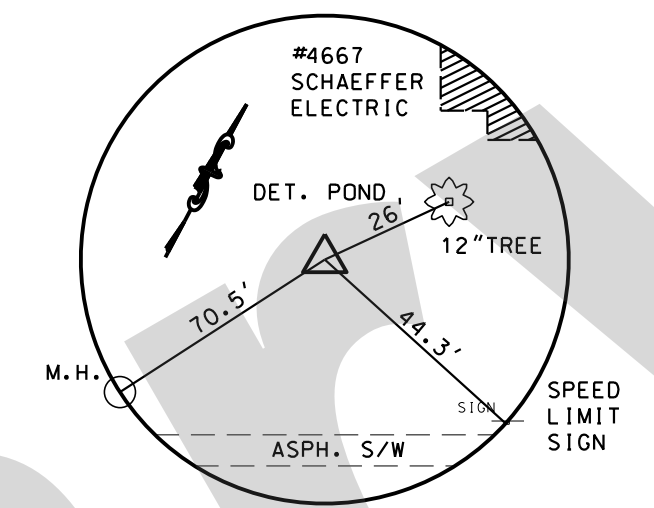
CONTROL POINT CNT 3
PK NAIL @
SE CORNER PARKING STRIPE
N: 975069.357
E: 867690.298
ELEV: 586.40
STA 204+89.15 450.36'RT
I-55



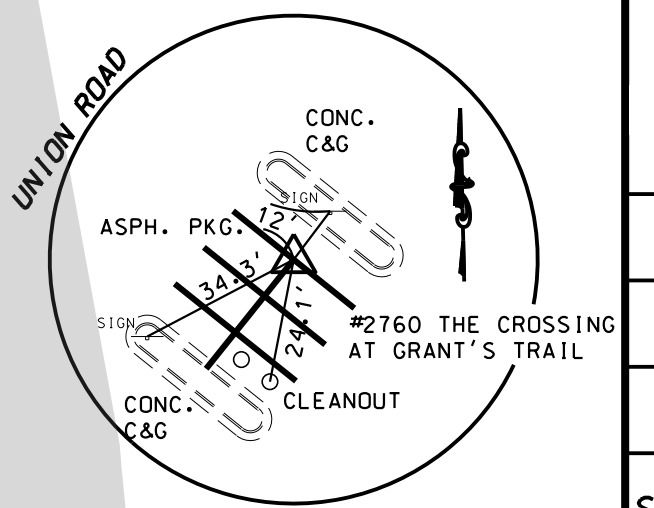
CONTROL POINT CNT 4
PK NAIL @
END OF PARKING STRIPE
N: 977191.710
E: 867480.657
ELEV: 552.10
STA 224+58.65 283.94'LT
I-55



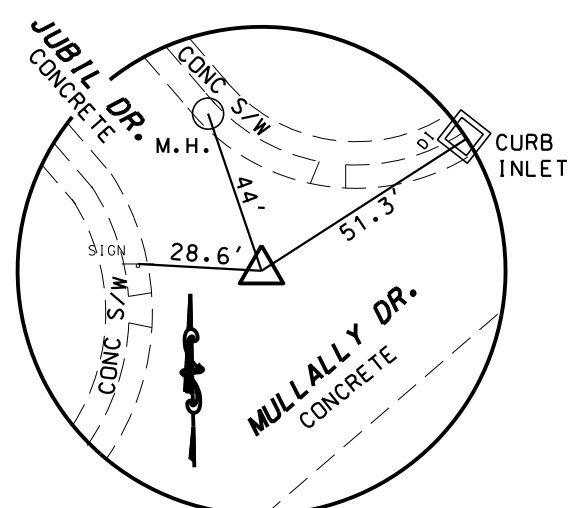
CONTROL POINT CNT 5
PK NAIL IN
CENTER CONC. JOINT
N: 977782.342
E: 869051.651
ELEV: 547.01
STA 240+80.71 481.57'RT
I-55



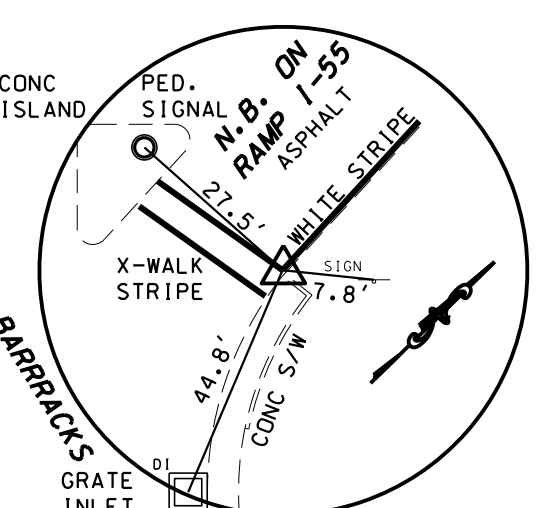
CONTROL POINT CNT 6
PK NAIL @
CENTER LID AREA INLET
N: 979056.998
E: 870274.436
ELEV: 463.48
STA 257+18.68 303.91'LT
I-55



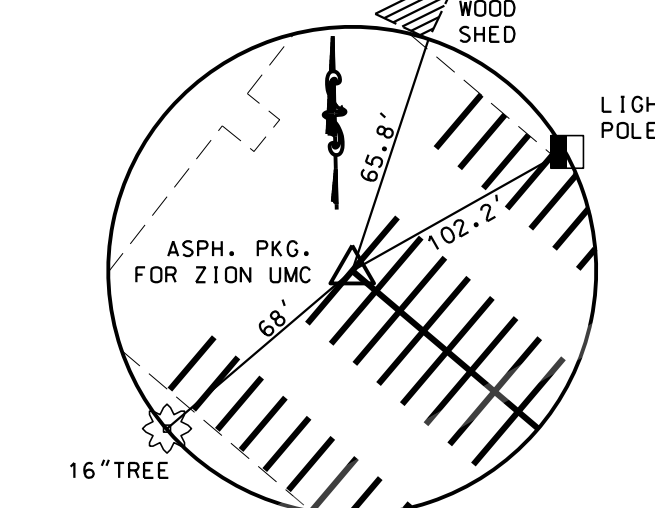
CONTROL POINT CNT 7
PK NAIL @
FADED PARKING STRIPE
N: 979264.704
E: 872038.960
ELEV: 455.31
STA 272+09.09 596.69'RT
I-55



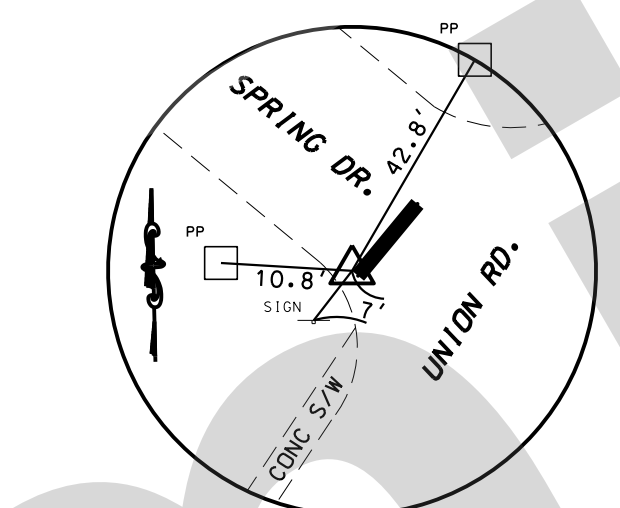
CONTROL POINT CNT 8
PK NAIL
CENTER CONC. JOINT
N: 981883.320
E: 872832.563
ELEV: 546.95
STA 297+52.4 375.86'LT
I-55



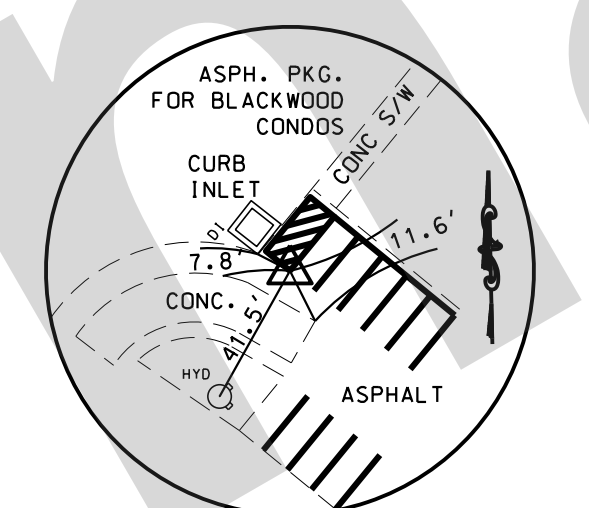
CONTROL POINT CNT 9
PK NAIL @
E END X-WALK STRIPE
N: 982965.275
E: 874387.009
ELEV: 492.36
STA 315+58.78 195.31'RT
I-55



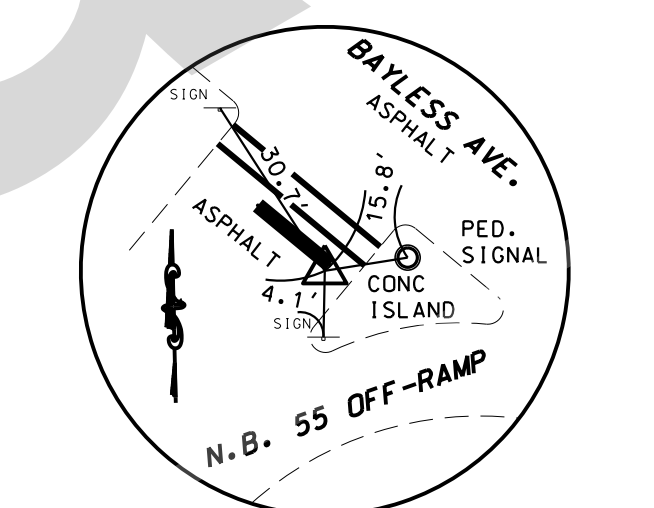
CONTROL POINT CNT 10
PK NAIL @
PARKING STALL STRIPE
N: 985147.636
E: 876093.220
ELEV: 481.75
STA 343+32.46 209.73'RT
I-55



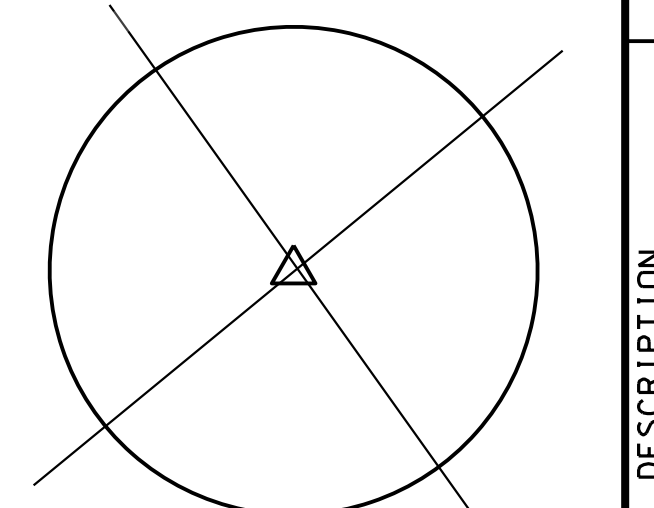
CONTROL POINT CNT 11
PK NAIL @
SW CORNER STOP BAR
N: 986486.175
E: 877206.334
ELEV: 446.68
STA 360+73.35 186.41'LT
I-55



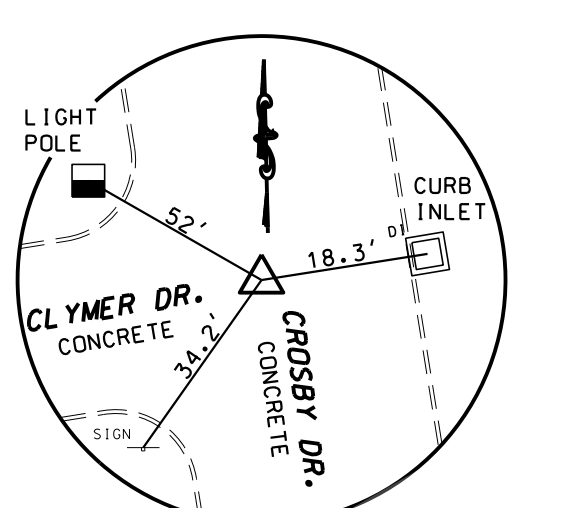
CONTROL POINT CNT 12
PK NAIL @
SE CORNER PARKING STRIPE
N: 987655.818
E: 878611.276
ELEV: 436.34
STA 387+74.01 436.01'LT
I-55



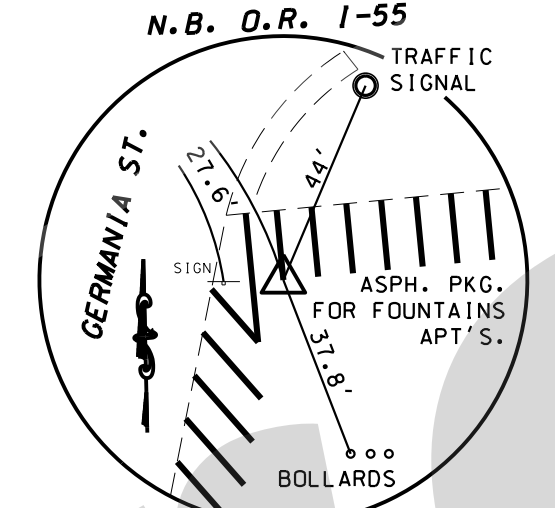
CONTROL POINT CNT 13
PK NAIL @
SE CORNER STOP BAR
N: 988065.977
E: 880356.137
ELEV: 427.14
STA 404+71.79 138.72'RT
I-55



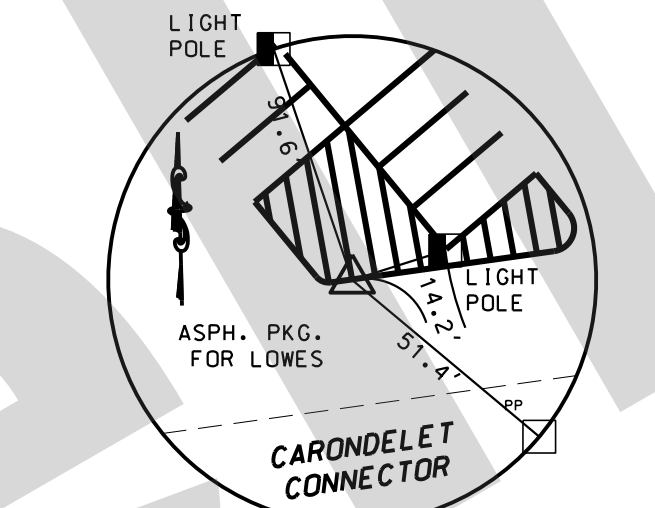
CONTROL POINT CNT 14
DESTROYED
N/A



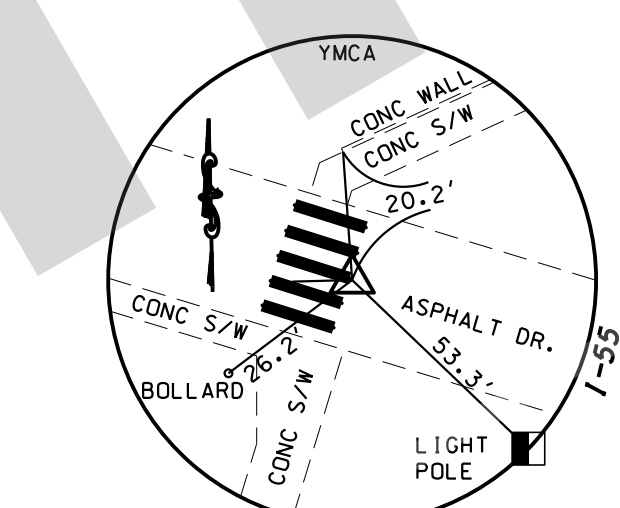
CONTROL POINT CNT 15
CTR M.H. LID
N: 990773.338
E: 883693.640
ELEV: 416.43
STA 445+40.19 618.21'LT
I-55



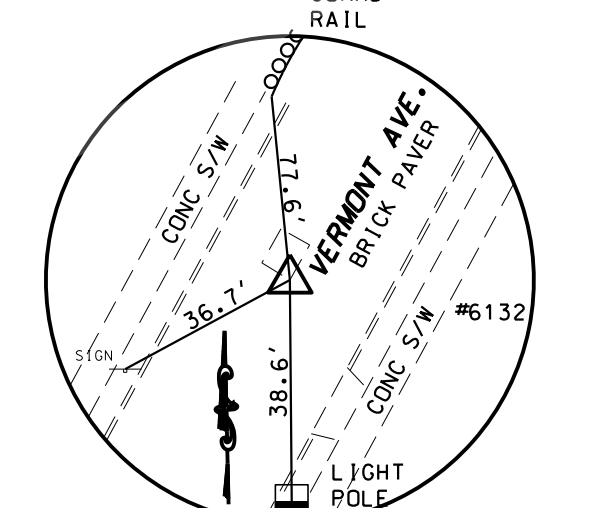
CONTROL POINT CNT 16
PK NAIL @
END PARKING STRIPE
N: 990182.476
E: 886067.384
ELEV: 417.62
STA 467+80.83 249.65'RT
I-55



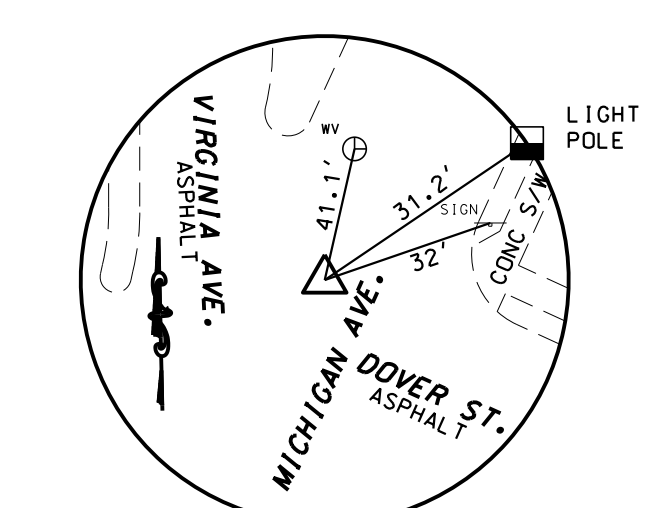
CONTROL POINT CNT 17
PK NAIL @
CORNER STRIPE IN
HATCH AREA
N: 990903.099
E: 887886.488
ELEV: 421.09
STA 487+14.61 232.60'LT
I-55



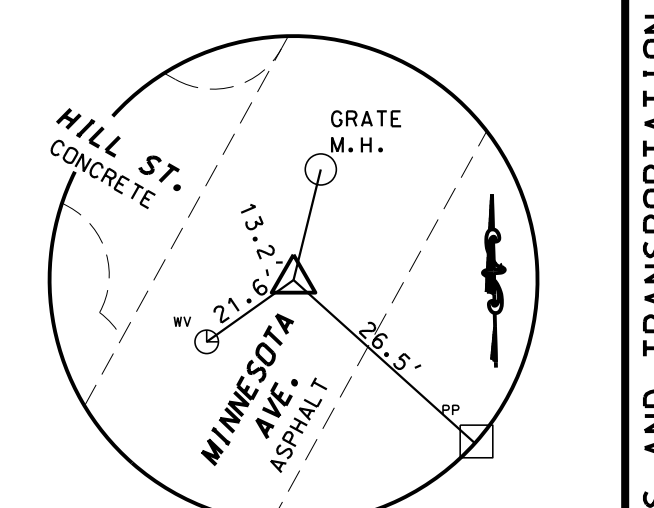
CONTROL POINT CNT 18
PK NAIL @ 3RD X-WALK
STRIPE NORTH
N: 992624.095
E: 889381.022
ELEV: 441.90
STA 511+88.41 286.14'LT
I-55



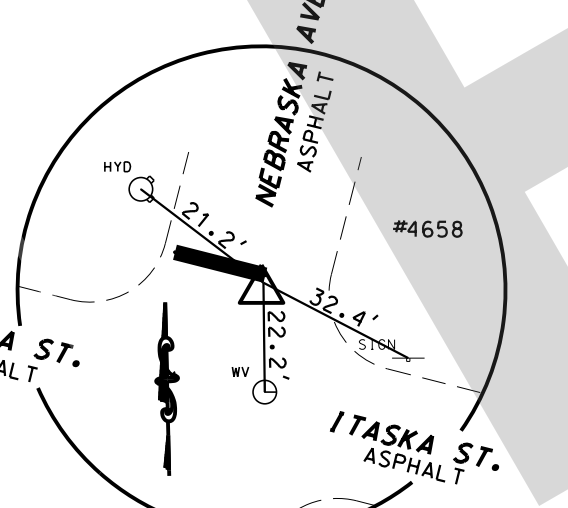
CONTROL POINT CNT 19
PK NAIL @
SE CORNER CONC PATCH
N: 993281.438
E: 891429.678
ELEV: 480.55
STA 532+62.65 170.36'RT
I-55



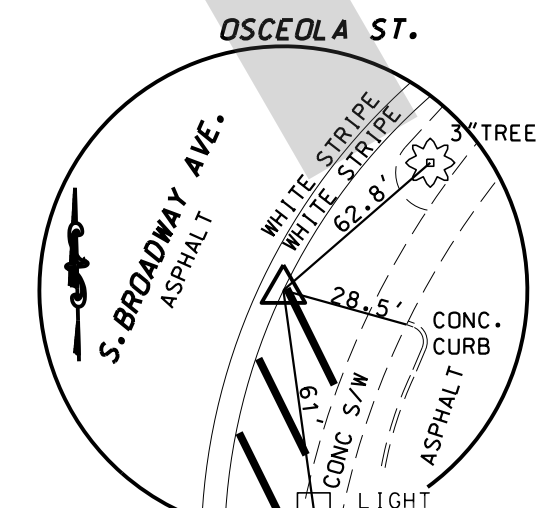
CONTROL POINT CNT 20
CTR WATER VALVE
N: 993645.214
E: 892882.935
ELEV: 485.87
STA 547+54.91 302.48'RT
I-55



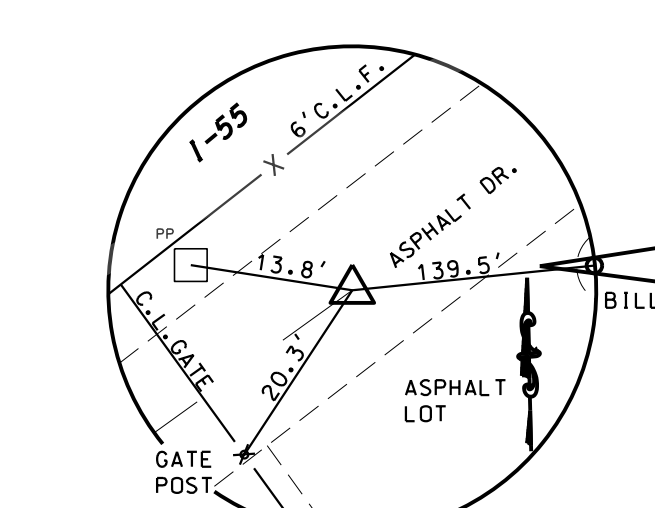
CONTROL POINT CNT 21
CTR WATER VALVE
N: 995548.269
E: 894366.977
ELEV: 506.05
STA 571+46.55 159.46'LT
I-55



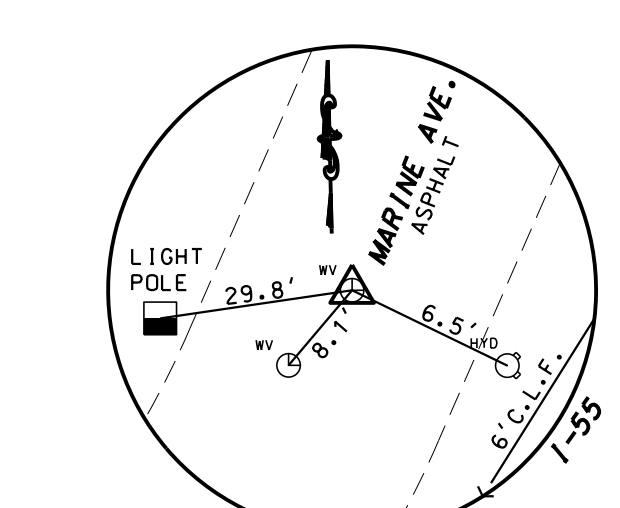
CONTROL POINT CNT 22
PK NAIL @
SE CORNER STOP BAR
N: 996926.257
E: 895443.793
ELEV: 521.17
STA 588+82.59 230.78'RT
I-55



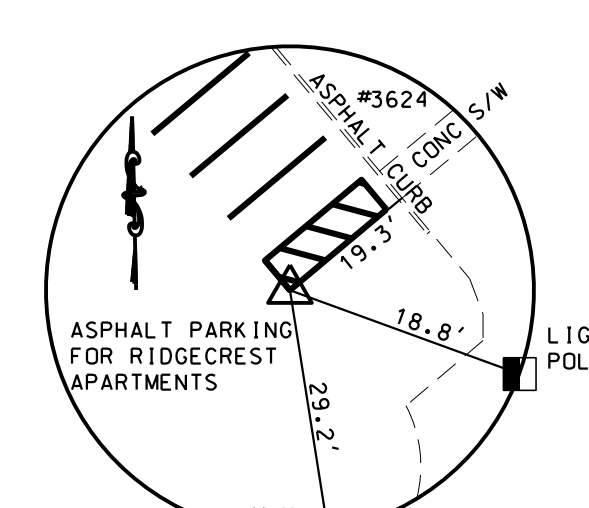
CONTROL POINT CNT 23
PK NAIL @
CORNER WHITE STRIPE
N: 998576.821
E: 896441.212
ELEV: 506.38
STA 607+82.70 372.56'LT
I-55



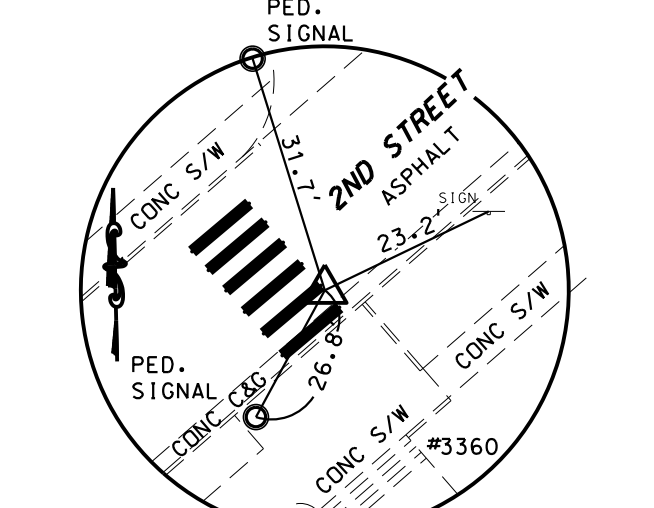
CONTROL POINT CNT 24
PK NAIL @
N END STRIPE FIRST
STRIPE N OF GATE
N: 999928.816
E: 898316.825
ELEV: 474.26
STA 631+45.02 144.32'RT
I-55



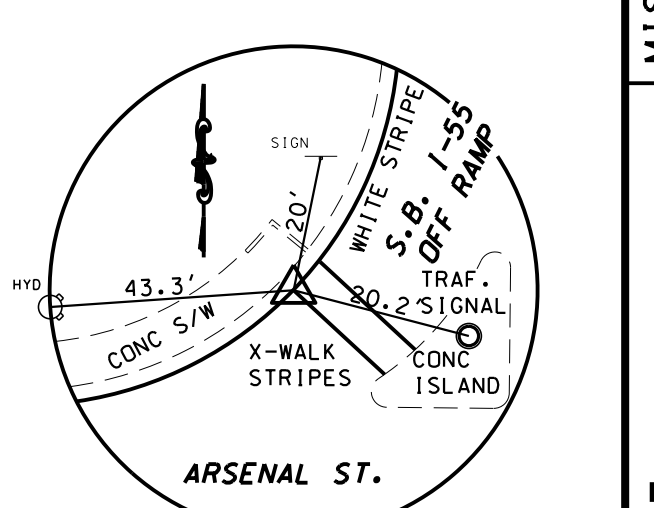
CONTROL POINT CNT 25
CTR WATER VALVE
OPPOSITE FH
N: 100164.545
E: 899511.111
ELEV: 487.38
STA 648+44.56 110.48'LT
I-55



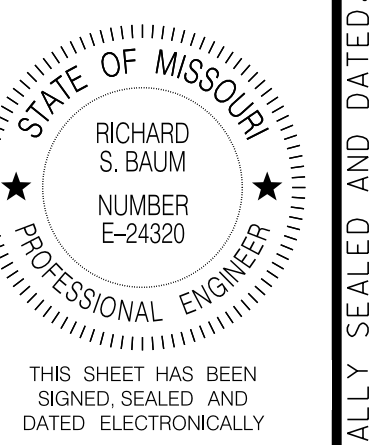
CONTROL POINT CNT 26
PK NAIL @
SE CORNER PARKING STRIPE
N: 1002619.697
E: 901235.843
ELEV: 494.41
STA 671+12.44 212.50'LT
I-55



CONTROL POINT CNT 27
PK NAIL @ NE CORNER
PED X-WALK
BAR 2ND FROM E
N: 1006421.260
E: 902203.857
ELEV: 479.48
STA 690+95.53 211.44'RT
I-55



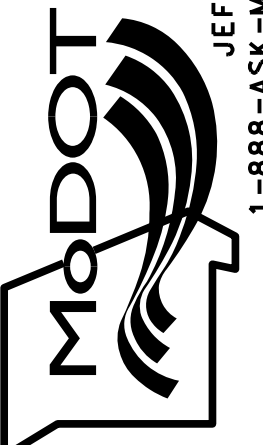
CONTROL POINT CNT 28
PK NAIL @ INTERSECTION WHITE
STRIPE AND S. PED X-WALK STRIPE
N: 1006421.260
E: 901204.029
ELEV: 521.18
STA 713+45.78 224.95'LT
I-55



DATE PREPARED
05-AUG-2021
ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 44
COUNTY
STL COUNTY/CITY
JOB NO.
J613187/J613149
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

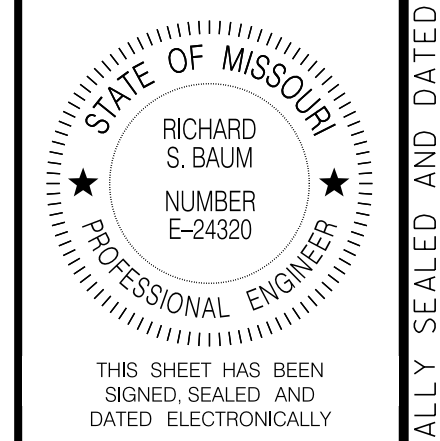
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



Jacobs
ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 45

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

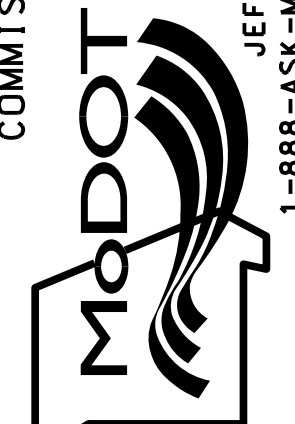
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

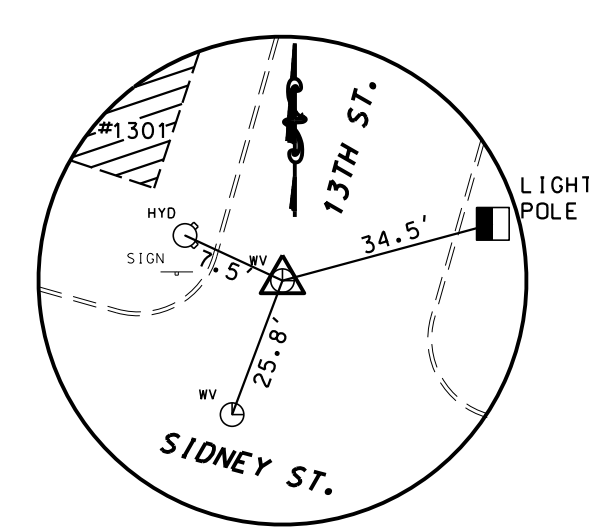


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

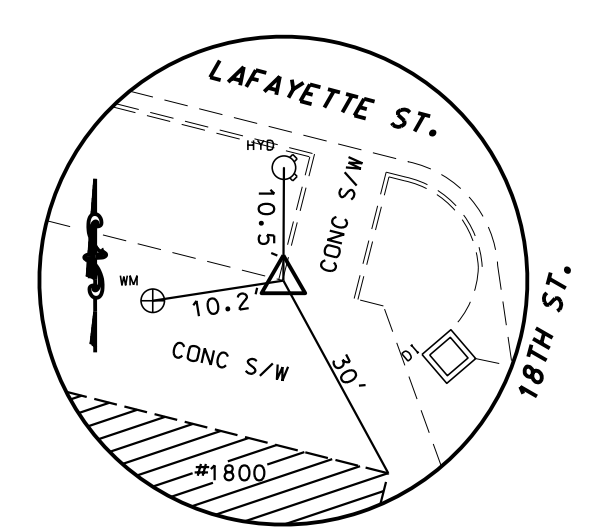
Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

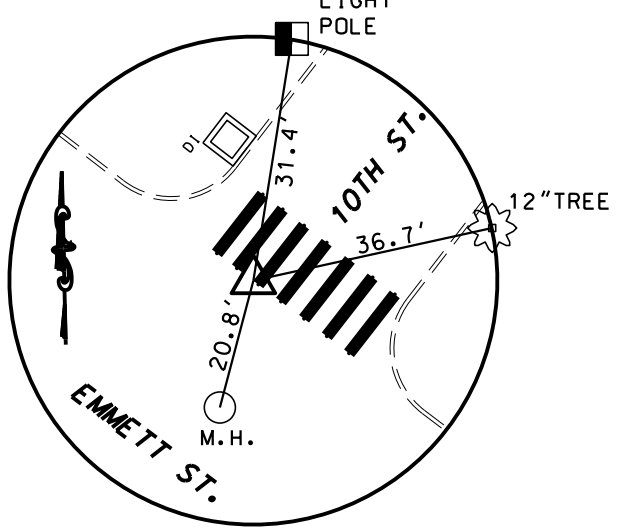
REFERENCE POINTS
SHEET 2 OF 3



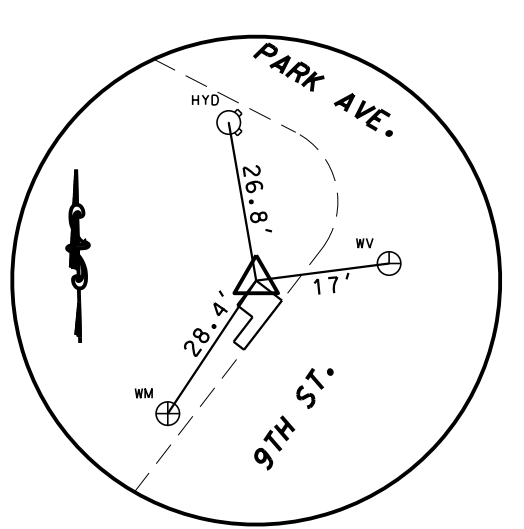
CONTROL POINT CNT 29
CTR WATER VALVE
N: 1008483.625
E: 902119.414
EL: 414.53
STA 735+39.09 283.12'RT
I-55



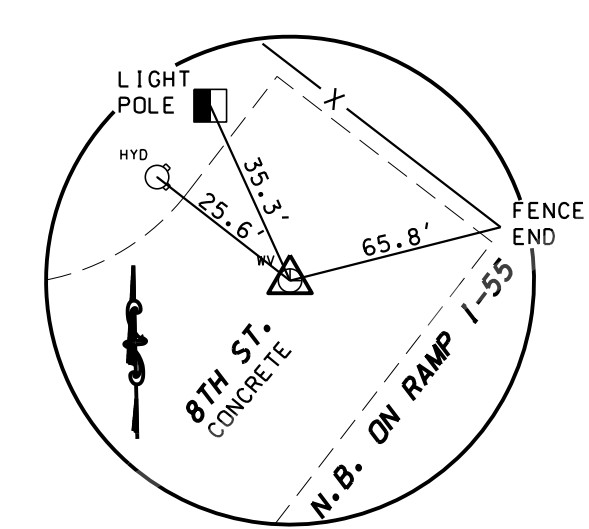
CONTROL POINT CNT 30
PK NAIL @ CORNER CONC SIDEWALK
N: 1012488.121
E: 902564.304
EL: 520.37
STA 1697+23.31 531.14'LT
WB I-44 BL



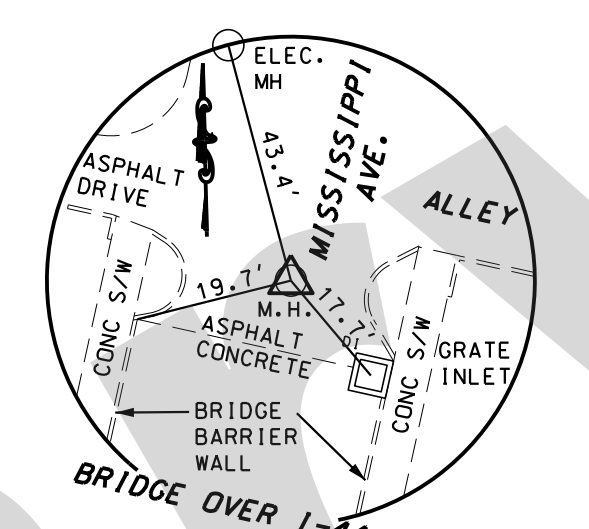
CONTROL POINT CNT 31
PK NAIL @ SW CORNER PED X-WALK BAR
N: 1011057.034
E: 904569.190
EL: 470.21
STA 745+29.86 295.37'RT
EB I-44 BL



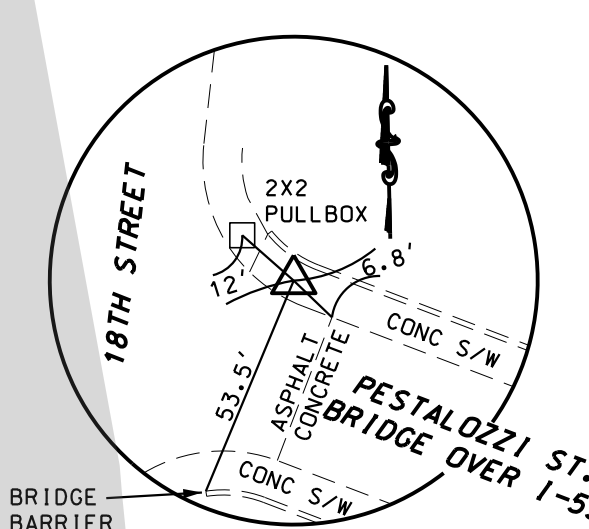
CONTROL POINT CNT 32
PK NAIL @ NW CORNER DC I
N: 1012458.120
E: 905947.609
EL: 463.53
STA 763+92.83 152.01'LT
WB I-44 BL



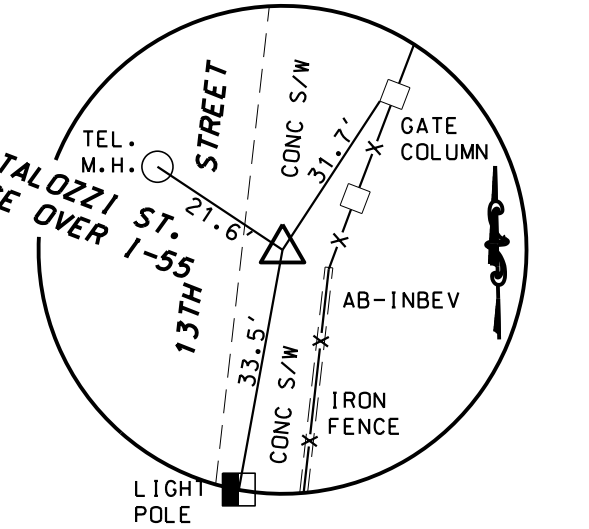
CONTROL POINT CNT 33
CTR WATER VALVE
E. OF FH
N: 1012080.035
E: 906153.832
EL: 451.95
STA 764+06.42 199.80'RT
NB I-44 BL



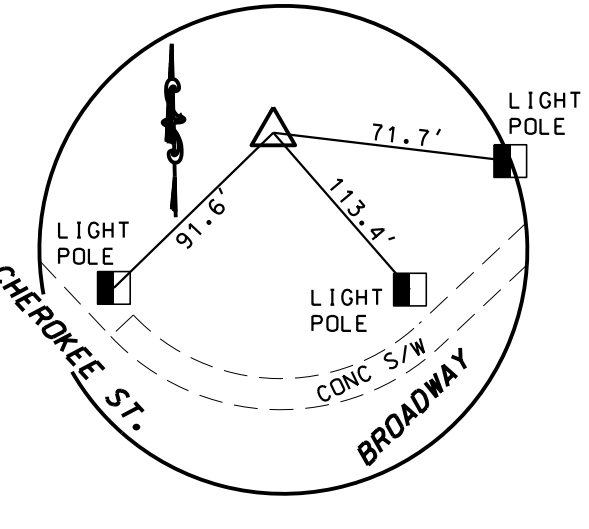
CONTROL POINT CNT 34
CTR MH
N: 1007118.804
E: 901896.431
EL: 533.04



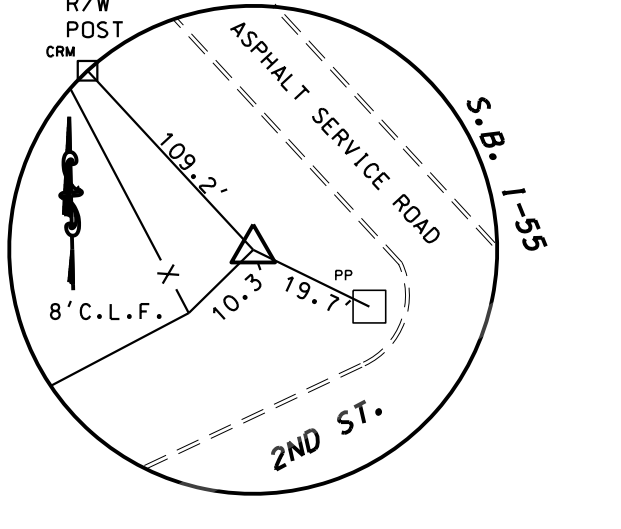
CONTROL POINT NO. 1
CUT "x" CROSS
N: 1007118.804
E: 901437.879
EL: 525.10
STA 720+69.65 126.72'LT
I-55



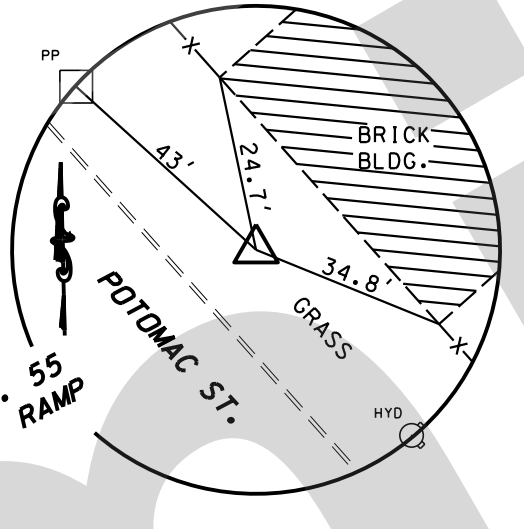
CONTROL POINT NO. 2
CUT "x" CROSS
N: 1006960.288
E: 901748.101
EL: 518.86
STA 719+72.96 207.96'RT
I-55



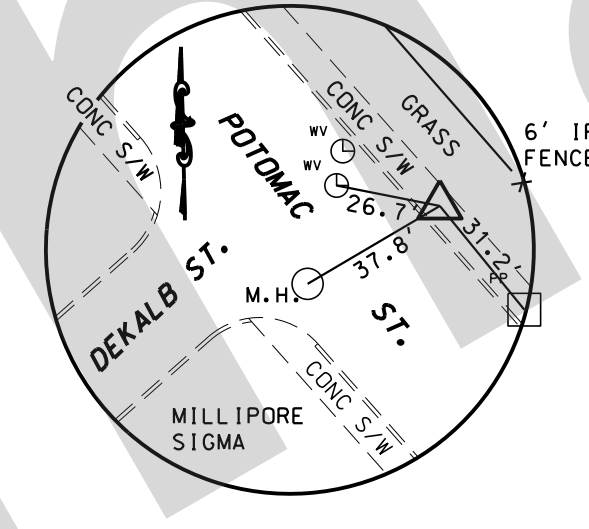
CONTROL POINT NO. 3
SET 80D NAIL
N: 1004566.153
E: 901749.942
EL: 520.97
STA 694+83.59 147.37'LT
I-55



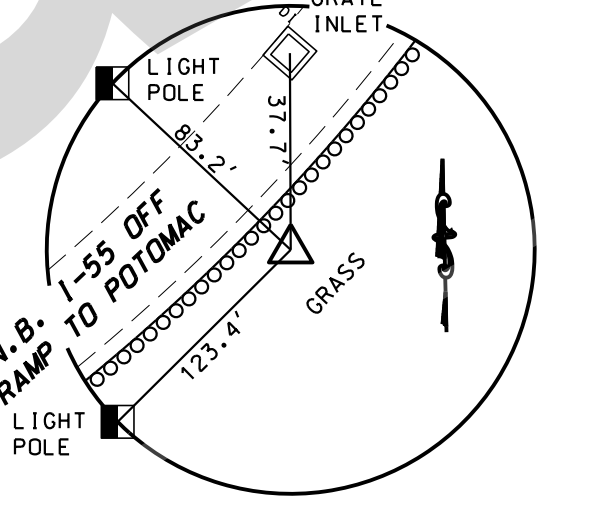
CONTROL POINT NO. 4
SET 80D NAIL
N: 1004130.582
E: 901879.833
EL: 495.08
STA 689+91.82 133.74'LT
I-55



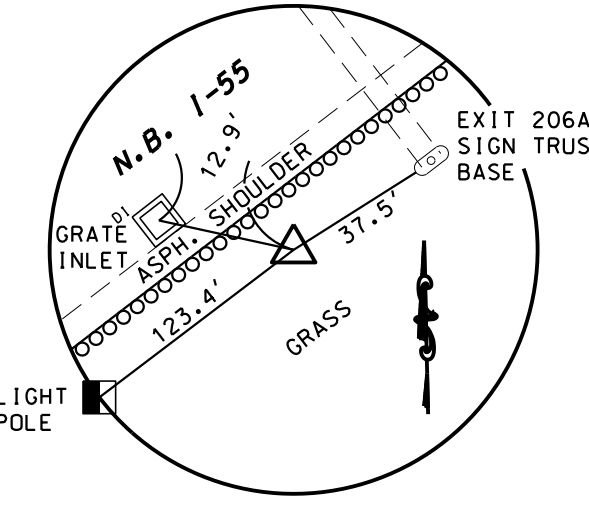
CONTROL POINT NO. 5
SET 80D NAIL
N: 1003124.349
E: 902054.264
EL: 441.52
STA 680+14.66 174.28'RT
I-55



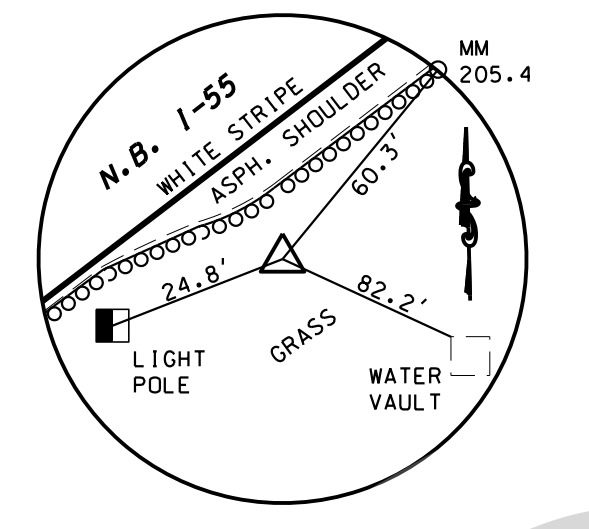
CONTROL POINT NO. 6
CUT "x" CROSS
N: 1003540.142
E: 901700.423
EL: 478.68
STA 683+16.00 288.47'LT
BUS RTE 65



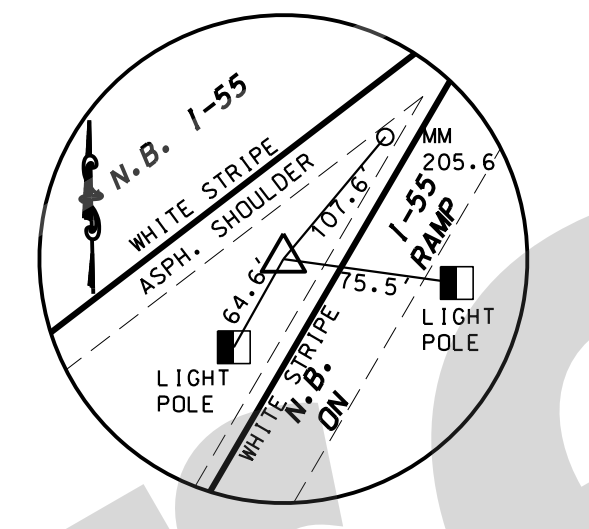
CONTROL POINT NO. 7
SET 80D NAIL
N: 1002640.582
E: 901743.270
EL: 455.47
STA 674+82.80 144.17'RT
I-55



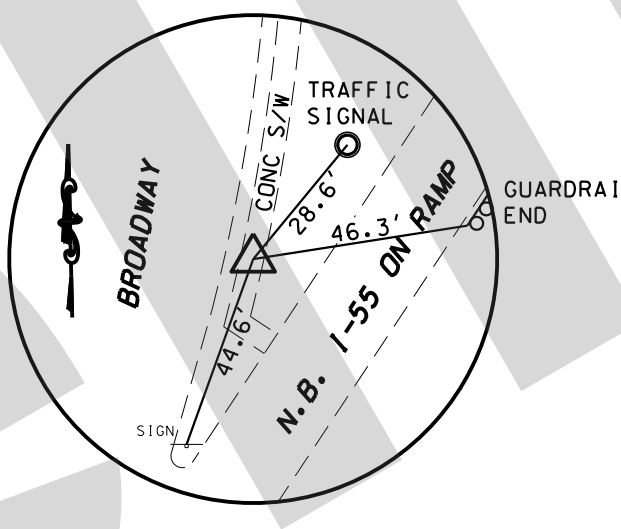
CONTROL POINT NO. 8
SET 80D NAIL
N: 1002261.212
E: 901263.825
EL: 479.33
STA 669+02.84 84.70'RT
I-55



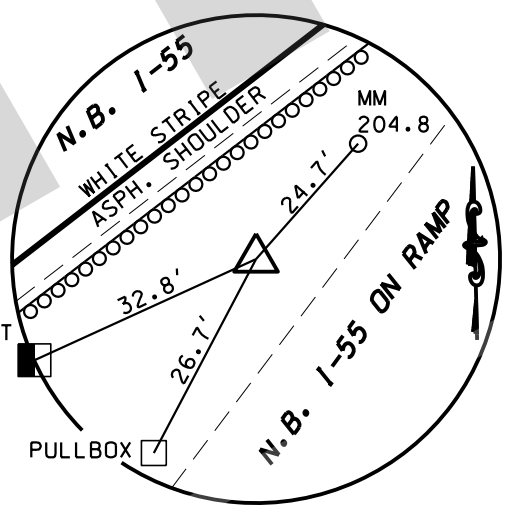
CONTROL POINT NO. 9
SET 80D NAIL
N: 1000495.204
E: 898937.115
EL: 473.33
STA 639+81.87 71.86'RT
I-55



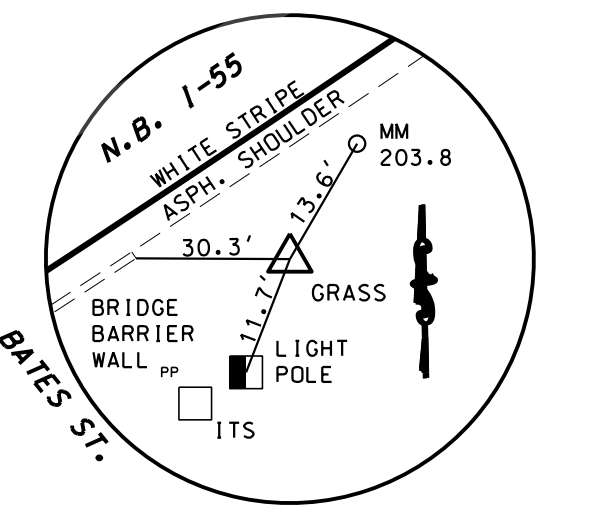
CONTROL POINT NO. 10
SET 80D NAIL
N: 1001034.917
E: 899640.228
EL: 486.43
STA 648+68.24 70.95'RT
I-55



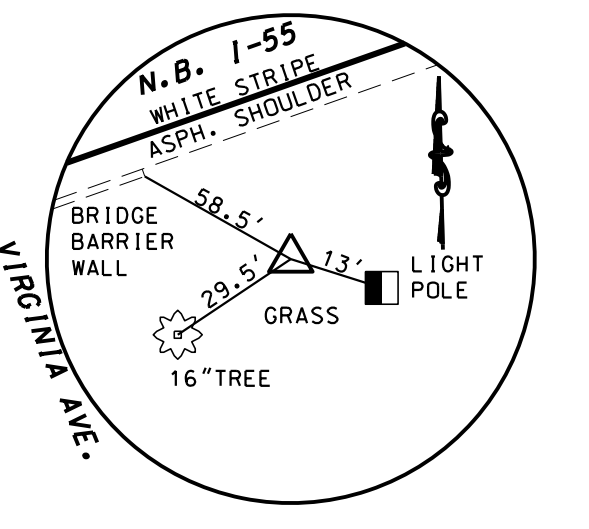
CONTROL POINT NO. 11
CUT "x" CROSS
N: 997816.791
E: 896411.510
EL: 506.78
STA 603+06.08 236.09'RT
I-55



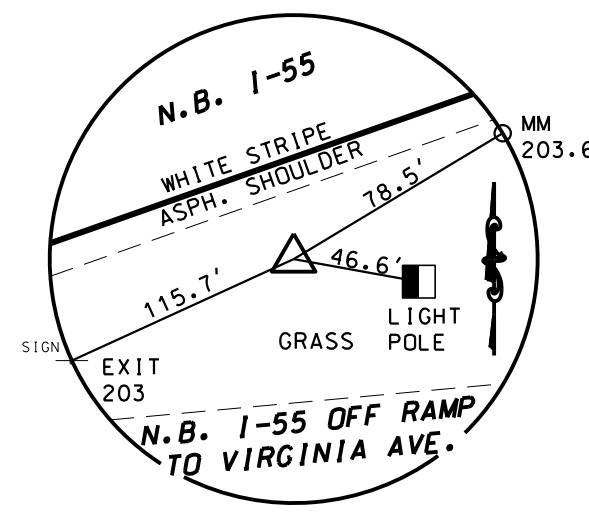
CONTROL POINT NO. 12
SET 80D NAIL
N: 998215.906
E: 896697.688
EL: 519.42
STA 607+58.00 69.60'RT
I-55



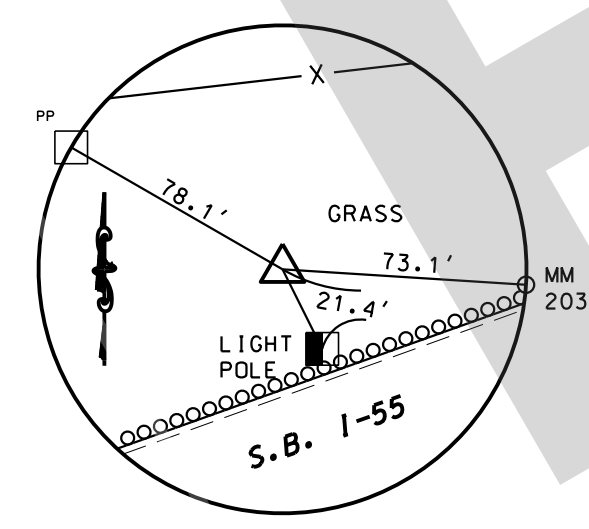
CONTROL POINT NO. 13
SET 80D NAIL
N: 994166.683
E: 893456.500
EL: 486.07
STA 554+56.99 71.89'RT
I-55



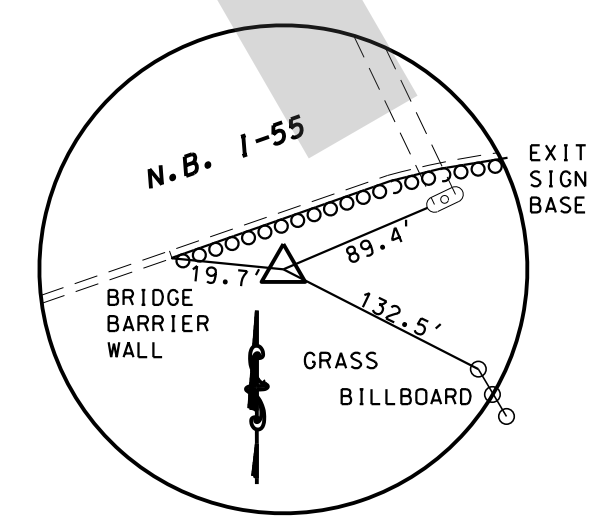
CONTROL POINT NO. 14
SET 80D NAIL
N: 993919.871
E: 892952.777
EL: 496.44
STA 549+08.55 67.53'RT
I-55



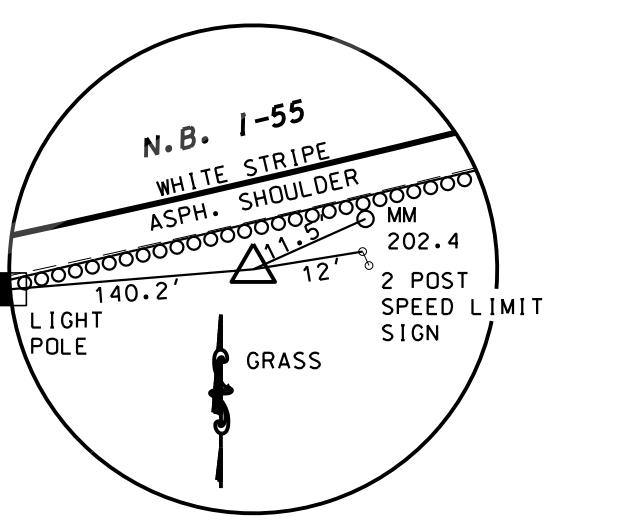
CONTROL POINT NO. 15
SET 80D NAIL
N: 993730.823
E: 892421.353
EL: 497.49
STA 543+46.80 70.45'RT
I-55



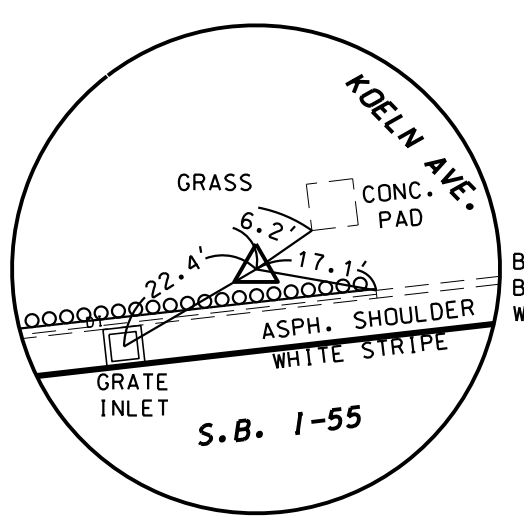
CONTROL POINT NO. 16
SET 80D NAIL
N: 993547.167
E: 891382.240
EL: 477.93
STA 533+04.83 96.25'LT
I-55



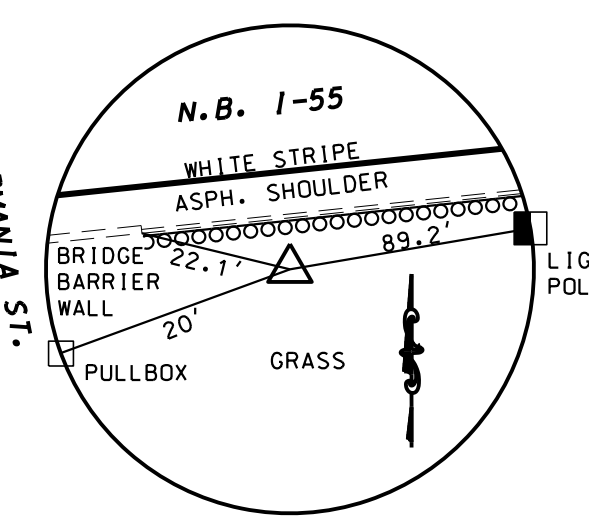
CONTROL POINT NO. 17
SET 80D NAIL
N: 990723.399
E: 888262.217
EL: 454.09
STA 490+10.73 73.43'RT
I-55



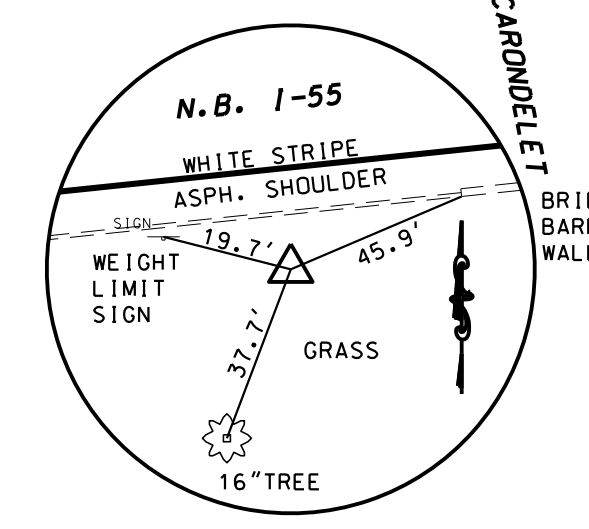
CONTROL POINT NO. 18
SET 80D NAIL
N: 990524.731
E: 887537.602
EL: 456.59
STA 482+80.35 76.11'RT
I-55



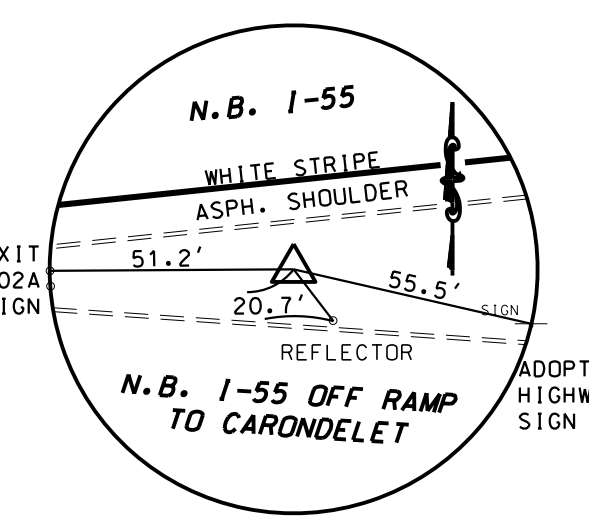
CONTROL POINT NO. 19
SET 80D NAIL
N: 990617.888
E: 887011.524
EL: 449.90
STA 477+68.21 76.03'LT
I-55



CONTROL POINT NO. 20
SET 80D NAIL
N: 990372.278
E: 886128.337
EL: 443.57
STA 468+25.19 67.98'RT
SB I-55 BL

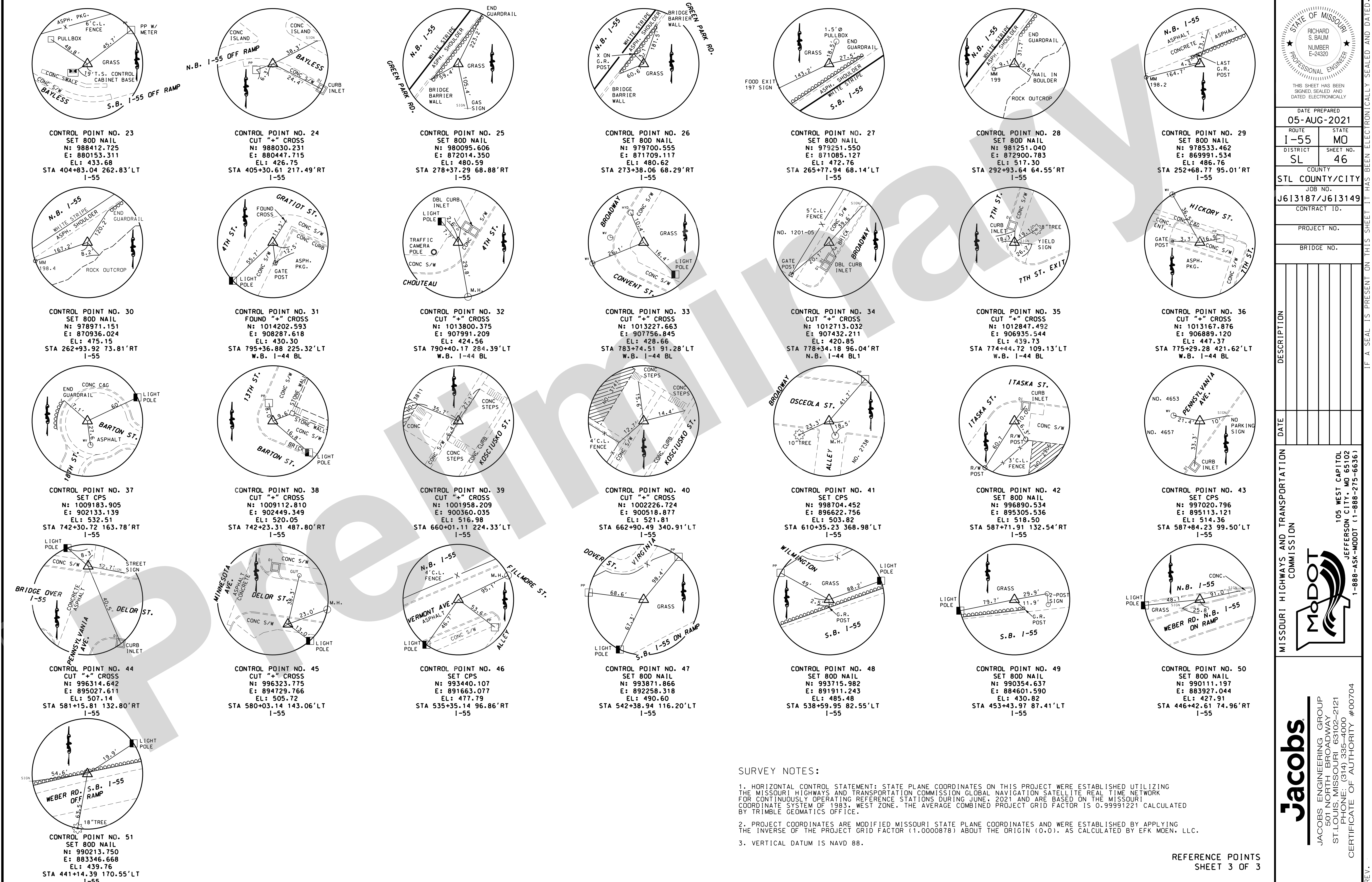


CONTROL POINT NO. 21
SET 80D NAIL
N: 990300.665
E: 885494.678
EL: 439.29
STA 462+25.19 67.36'RT
I-55



CONTROL POINT NO. 22
SET 80D NAIL
N: 990249.672
E: 885044.317
EL: 436.15
STA 457+71.96 67.02'RT
I-55

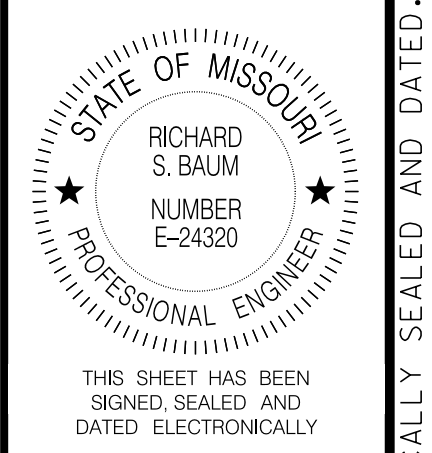
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.



SURVEY NOTES:

- 1. HORIZONTAL CONTROL STATEMENT: STATE PLANE COORDINATES ON THIS PROJECT WERE ESTABLISHED UTILIZING THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUSLY OPERATING REFERENCE STATIONS DURING JUNE, 2021 AND ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, WEST ZONE. THE AVERAGE COMBINED PROJECT GRID FACTOR IS 0.99991221 CALCULATED BY TRIMBLE GEOMATICS OFFICE.
- 2. PROJECT COORDINATES ARE MODIFIED MISSOURI STATE PLANE COORDINATES AND WERE ESTABLISHED BY APPLYING THE INVERSE OF THE PROJECT GRID FACTOR (1.0000878) ABOUT THE ORIGIN (0,0). AS CALCULATED BY EFK MOEN, LLC.
- 3. VERTICAL DATUM IS NAVD 88.

REFERENCE POINTS
SHEET 3 OF 3



DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	46

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

COORDINATE POINT LISTING

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPLY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION	
COORDINATE SYSTEM	MODIFIED MISSOURI STATE PLANE
HORIZONTAL DATUM	NAD 83 (2011) (EPOCH 2010)
VERTICAL DATUM	NAVD 88: GNSS DERIVED
GEOID MODEL	18
ELEVATIONS DETERMINED BY	GNSS DERIVED
PROJECT PROJECTION FACTOR	1.00008336
REFERENCE CONTROL INFORMATION	
COORDINATE SYSTEM	MISSOURI COORDINATE SYSTEM OF 1983
CONTROL STATION	MISSOURI CORS
DESIGNATION	SEILER TREECOURT CORS ARP
CORS_ID	MOSI
PID	DL3650
LATITUDE	38°33'44.23066" (N)
LONGITUDE	090°27'40.90251" (W)
NORTHING (M)	302,843.569
EASTING (M)	253,367.387
ZONE	EAST
PROJECT AVERAGE GRID FACTOR	0.99991221
EXAMPLE OF PROJECT COORDINATE TO S.P.C.	
PROJECT NORTHING X AVERAGE GRID FACTOR = STATE PLANE NORTHING	
PROJECT EASTING X AVERAGE GRID FACTOR = STATE PLANE EASTING	
EXAMPLE: CONTROL POINT #1000 N 965255.928 X 0.99991221 = N 965171.186 E 882688.370 X 0.99991221 = E 882610.877	
LINEAR UNIT CONVERSION	
1 METER = 3.280833333 US SURVEY FEET (USFT)	

CONSTRUCTION BASELINE I-55 - TIE POINT COORDINATES				
POINT	STATION	OFFSET (FEET)	MODIFIED STATE PLANE (GROUND)	
			NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
POT	196+99.72	0	974,402.3992	867,072.8878
PI	232+84.26	0	977,893.8455	867,884.5043
PC	220+25.08	0	976,667.3666	867,599.3988
PT	243+28.03	0	978,311.2537	869,072.4884
PI	264+78.71	0	979,024.1883	871,101.5692
PC	256+29.64	0	978,742.7269	870,300.5028
PT	272+80.54	0	979,696.6845	871,619.9095
POT	280+27.07	0	980,287.9664	872,075.6522
PI	347+99.30	0	985,648.3751	876,214.3873
PC	342+83.90	0	985,240.4173	875,899.4059
PT	353+03.80	0	985,920.9669	876,651.8078
POT	384+06.20	0	987,091.2437	878,529.7187
PI	441+52.60	0	990,130.4466	883,406.6438
PC	435+06.25	0	989,788.5975	882,858.0881
PT	447+77.67	0	990,203.6509	884,048.8396
POT	482+49.26	0	990,596.8333	887,498.0888
POT	482+65.26	0	990,598.6463	887,513.9858
PI	484+08.53	0	990,614.5397	887,656.3715
PC	483+57.05	0	990,609.0413	887,605.1824
PCC	484+60.00	0	990,622.3313	887,707.2620
PI	495+07.09	0	990,794.4847	888,740.1114
PCC	484+60.00	0	990,622.3313	887,707.2620
PRC	503+75.64	0	991,757.8124	889,150.4945
PI	515+78.78	0	992,846.4863	889,662.6709
PRC	503+75.64	0	991,757.8124	889,150.4945
PT	526+53.76	0	993,243.0441	890,798.5747
PI	560+54.20	0	994,356.4442	894,011.5609
PC	548+11.02	0	993,949.3918	892,836.9121
PT	571+56.88	0	995,492.3883	894,516.6579
PI	592+78.06	0	997,429.5373	895,380.8554
PC	584+31.76	0	996,657.3034	895,034.6368
PT	600+77.55	0	997,889.6893	896,091.1178
PI	611+32.26	0	998,465.8816	896,974.5338
PC	605+04.69	0	998,123.0369	896,448.8856
PT	617+40.32	0	998,997.0762	897,308.7204
PI	625+18.70	0	999,655.9227	897,723.2158
PC	620+03.88	0	999,220.1668	897,449.0718
PT	630+22.65	0	999,968.9734	898,131.9179
PI	685+83.16	0	1,003,350.2048	902,546.2707
TS	668+89.12	0	1,002,320.0978	901,201.4188
SC	670+89.12	0	1,002,444.4507	901,358.0285
CS	695+45.00	0	1,004,678.4577	901,862.1259
ST	697+45.00	0	1,004,858.0137	901,774.0923
PI	707+71.35	0	1,005,771.5389	901,306.2582
TS	700+12.07	0	1,005,095.7297	901,652.3533
SC	702+12.07	0	1,005,275.2856	901,564.3197
CS	712+81.20	0	1,006,320.0207	901,415.9432
ST	714+81.20	0	1,006,516.9876	901,450.5019
PI	746+61.47	0	1,009,640.6227	902,047.8427
PC	741+06.75	0	1,009,094.7272	901,949.2928
PT	752+12.74	0	1,010,157.4745	902,249.2831

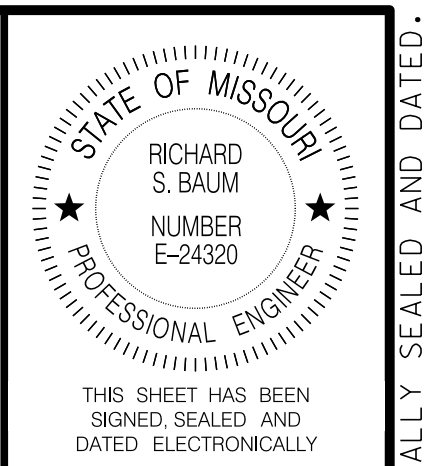
CONSTRUCTION BASELINE I-55 N.B. - TIE POINT COORDINATES				
POINT	STATION	OFFSET (FEET)	MODIFIED STATE PLANE (GROUND)	
			NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
PI	231+26.65	0	977,740.3299	867,848.8183
PC	216+43.20	0	976,295.4059	867,512.9334
PT	243+80.83	0	978,299.9632	869,222.6576
POT	256+84.35	0	978,791.7177	870,429.8618

CENTERLINE STAGE 3 CROSSOVER - TIE POINT COORDINATES				
POINT	STATION	OFFSET (FEET)	MODIFIED STATE PLANE (GROUND)	
			NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
POT	50+00.00	0	978,471.5053	869,691.7768
PI	52+40.33	0	978,562.2878	869,914.3053
PC	51+19.89	0	978,516.7909	869,802.7821
PT	53+60.28	0	978,624.7278	870,017.3034
PI	55+18.76	0	978,706.8819	870,152.8209
PC	53+60.28	0	978,624.7278	870,017.3034
PT	56+76.10	0	978,759.4161	870,302.3350
PI	57+38.06	0	978,779.9561	870,360.7926
PC	56+76.10	0	978,759.4161	870,302.3350
PT	58+00.00	0	978,803.0428	870,418.2920

CENTERLINE STAGE 4 CROSSOVER - TIE POINT COORDINATES				
POINT	STATION	OFFSET (FEET)	MODIFIED STATE PLANE (GROUND)	
			NORTHING (US SURVEY FEET)	EASTING (US SURVEY FEET)
POT	50+00.00	0	978,555.7456	869,698.8258
PI	51+57.00	0	978,607.9462	869,846.8944
PC	50+18.21	0	978,561.7987	869,715.9954
PT	52+95.05	0	978,629.9927	869,983.9275
PI	54+71.49	0	978,658.0187	870,158.1261
PC	52+95.05	0	978,629.9927	869,983.9275
PT	56+46.40	0	978,724.6454	870,321.5013
POT	57+00.00	0	978,744.8851	870,371.1309

DISCLAIMER
 THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

COORDINATE POINTS
 SHEET 1 OF 1



DATE PREPARED
 05-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT SL SHEET NO. 47
 COUNTY STL COUNTY/CITY
 JOB NO. J613187/J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

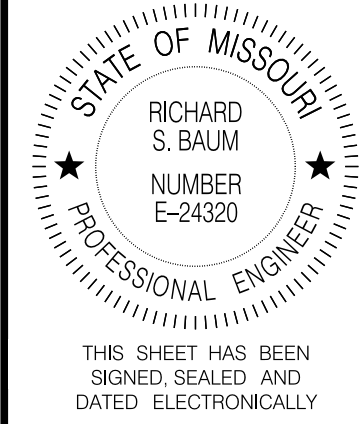
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

NOTES:

- REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
- THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
- REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 48

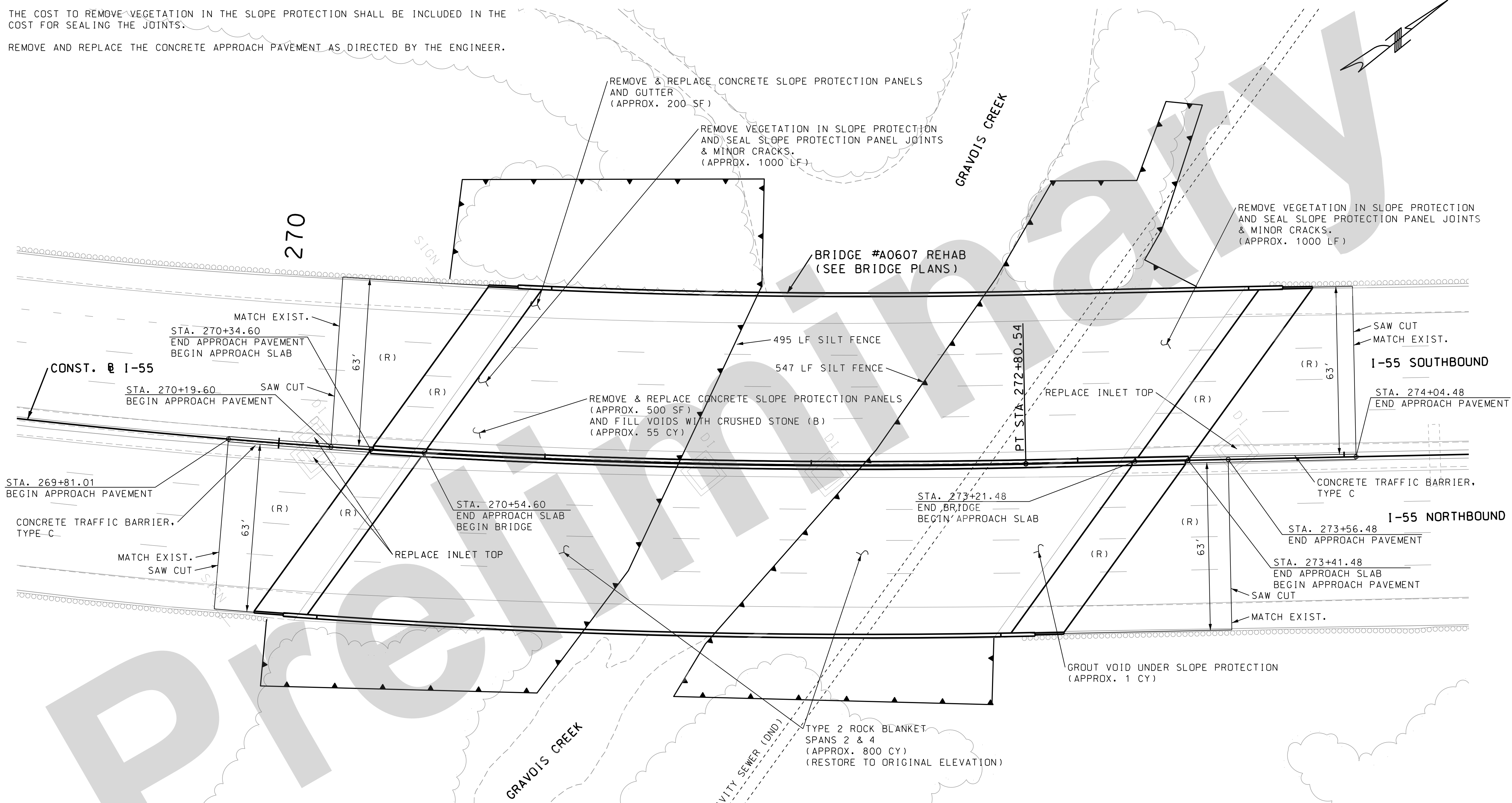
COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



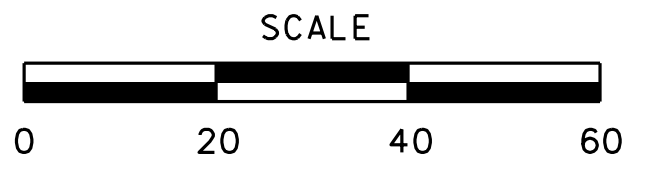
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

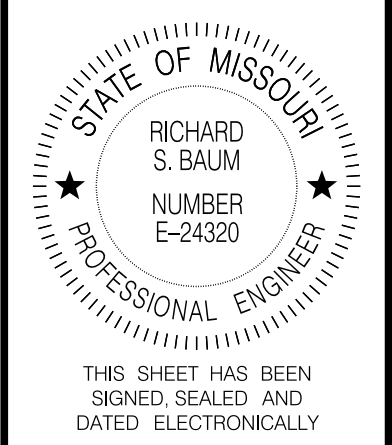
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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SPECIAL SHEET
GRAVOIS CREEK BRIDGE MAINTENANCE REPAIRS
SHEET 1 OF 23

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED
29-SEP-2021
ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 49
COUNTY
STL COUNTY/CITY
JOB NO.
J613187
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

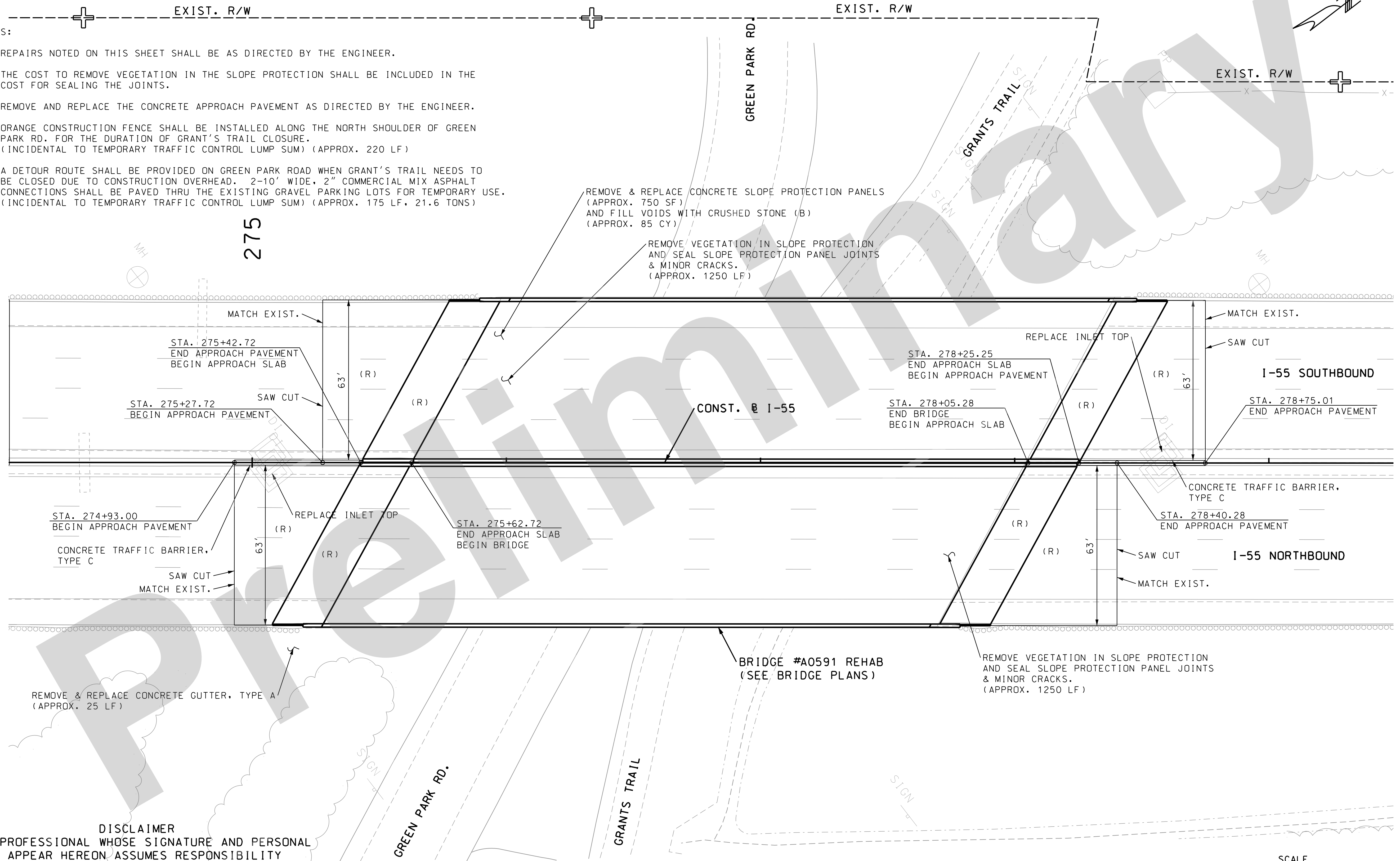
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

08:09 29-SEP-2021

NOTES:

- REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
- THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
- REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.
- ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED ALONG THE NORTH SHOULDER OF GREEN PARK RD. FOR THE DURATION OF GRANT'S TRAIL CLOSURE. (INCIDENTAL TO TEMPORARY TRAFFIC CONTROL LUMP SUM) (APPROX. 220 LF)
- A DETOUR ROUTE SHALL BE PROVIDED ON GREEN PARK ROAD WHEN GRANT'S TRAIL NEEDS TO BE CLOSED DUE TO CONSTRUCTION OVERHEAD. 2-10' WIDE, 2" COMMERCIAL MIX ASPHALT CONNECTIONS SHALL BE PAVED THRU THE EXISTING GRAVEL PARKING LOTS FOR TEMPORARY USE. (INCIDENTAL TO TEMPORARY TRAFFIC CONTROL LUMP SUM) (APPROX. 175 LF, 21.6 TONS)



DISCLAIMER
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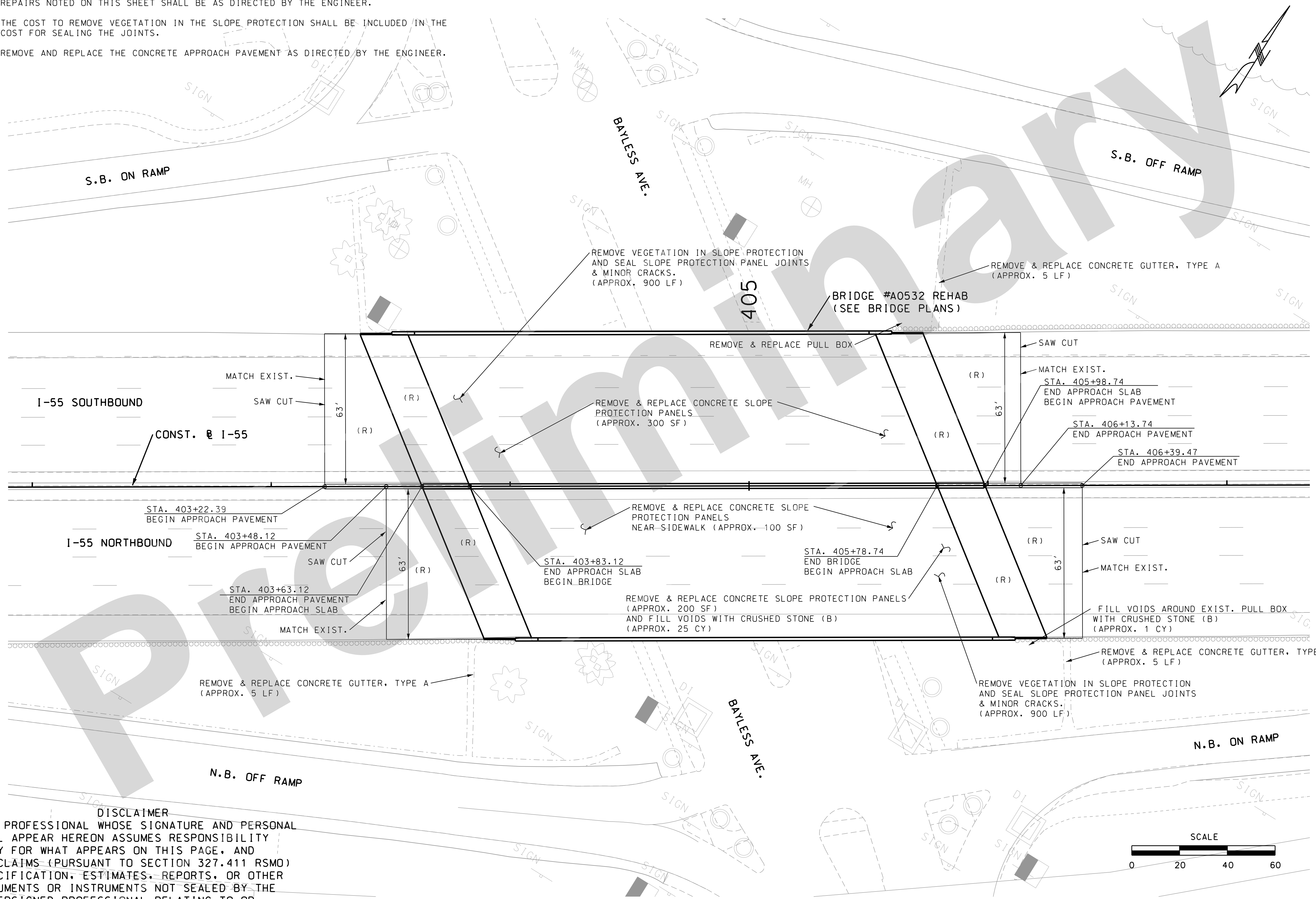


SPECIAL SHEET
GREEN PARK RD. BRIDGE MAINTENANCE REPAIRS
SHEET 2 OF 23

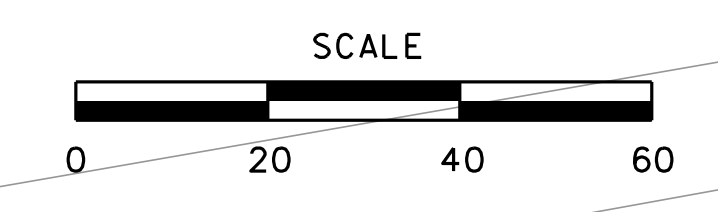
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

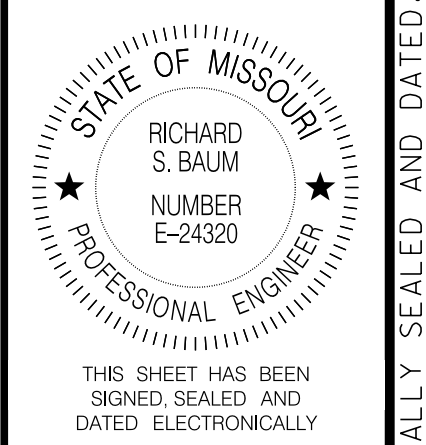
- 1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
- 2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
- 3. REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.



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SPECIAL SHEET
 BAYLESS AVE. BRIDGE MAINTENANCE REPAIRS
 SHEET 3 OF 23



DATE PREPARED	05-AUG-2021
ROUTE	I-55
STATE	MO
DISTRICT	SL
SHEET NO.	50
COUNTY	STL COUNTY/CITY
JOB NO.	J613187
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	
DATE	

DESCRIPTION	
DATE	
DESCRIPTION	
DATE	
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

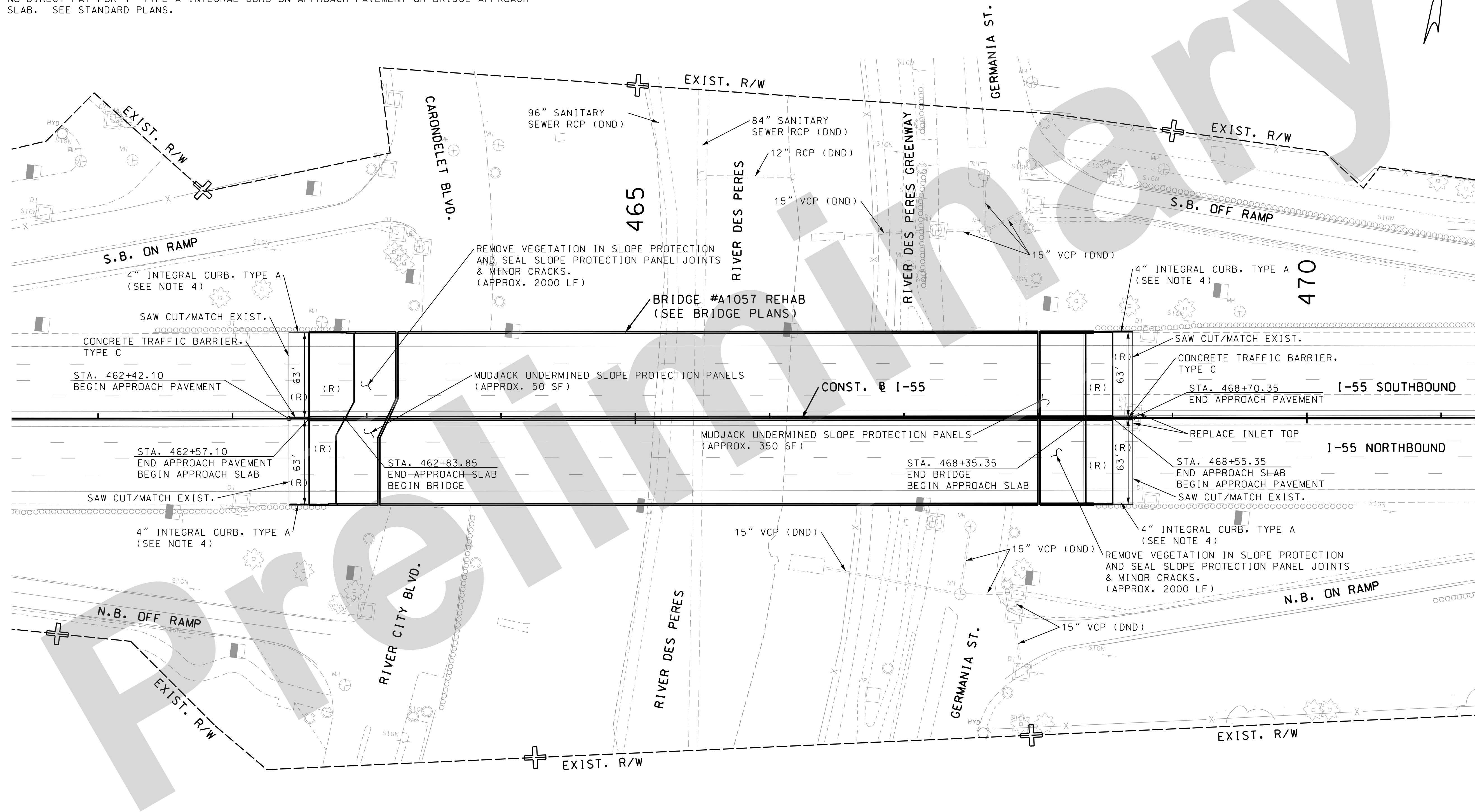
Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

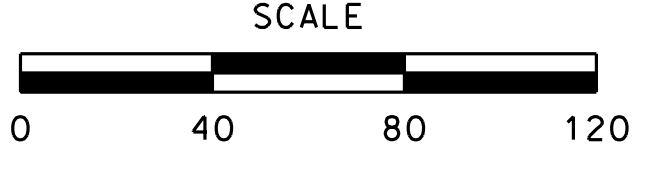
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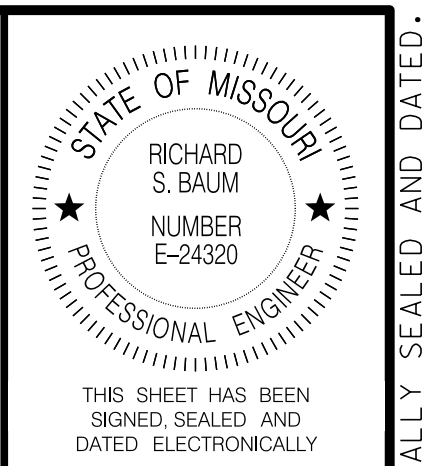
- 1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
- 2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
- 3. REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.
- 4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.



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SPECIAL SHEET
 RIVER DES PERES BRIDGE MAINTENANCE REPAIRS
 SHEET 4 OF 23



DATE PREPARED	05-AUG-2021
ROUTE	I-55
STATE	MO
DISTRICT	SL
SHEET NO.	51
COUNTY	STL COUNTY/CITY
JOB NO.	J613187
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

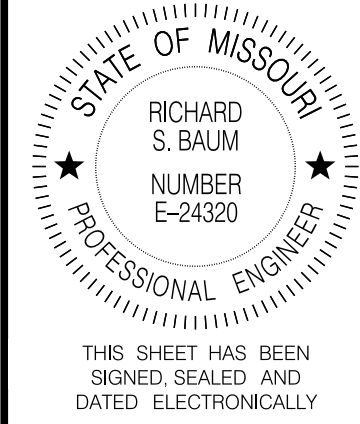
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



DATE PREPARED
05-AUG-2021

ROUTE I-55 STATE MO
DISTRICT SL SHEET NO. 52

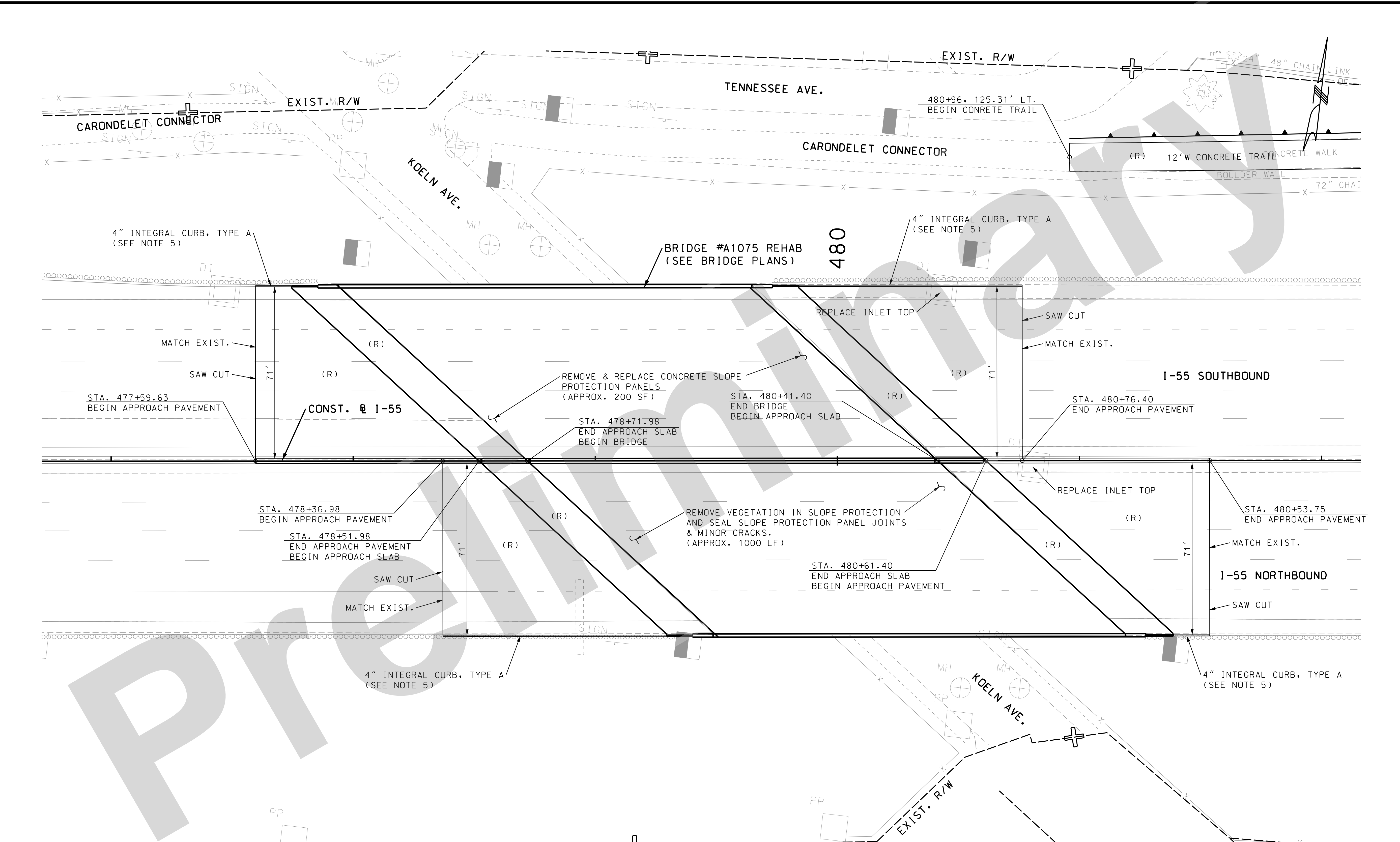
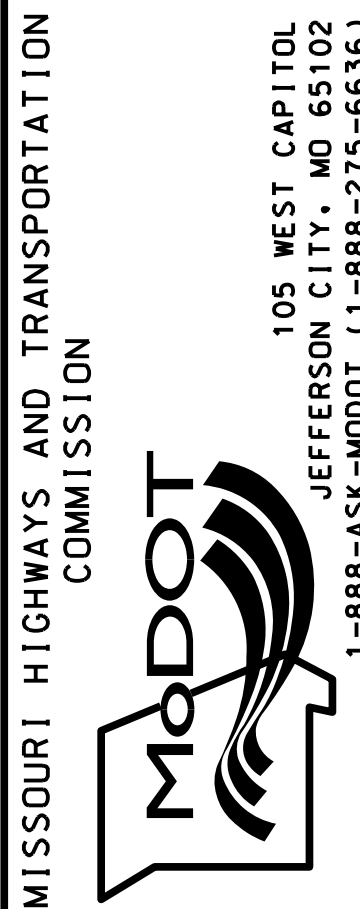
COUNTY
STL COUNTY/CITY
JOB NO.
J613187
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

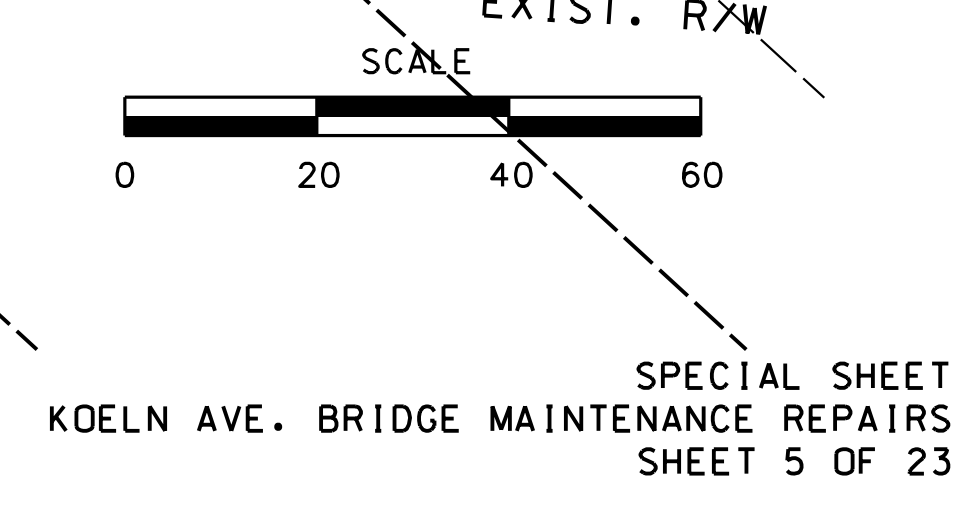
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



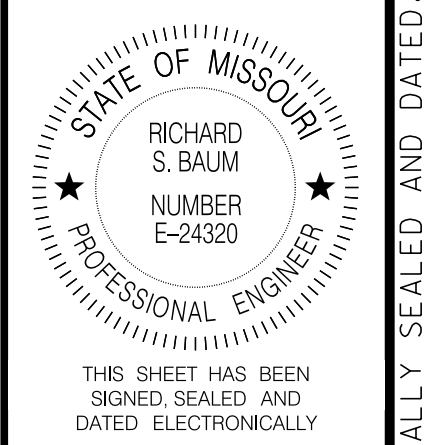
- NOTES:
1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
 2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
 3. REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.
 4. REMOVE AND REPLACE CHAIN-LINK FENCE (60 IN.) UNDER BRIDGES (APPROX. 200 LF)
 5. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.

DISCLAIMER
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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 53
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

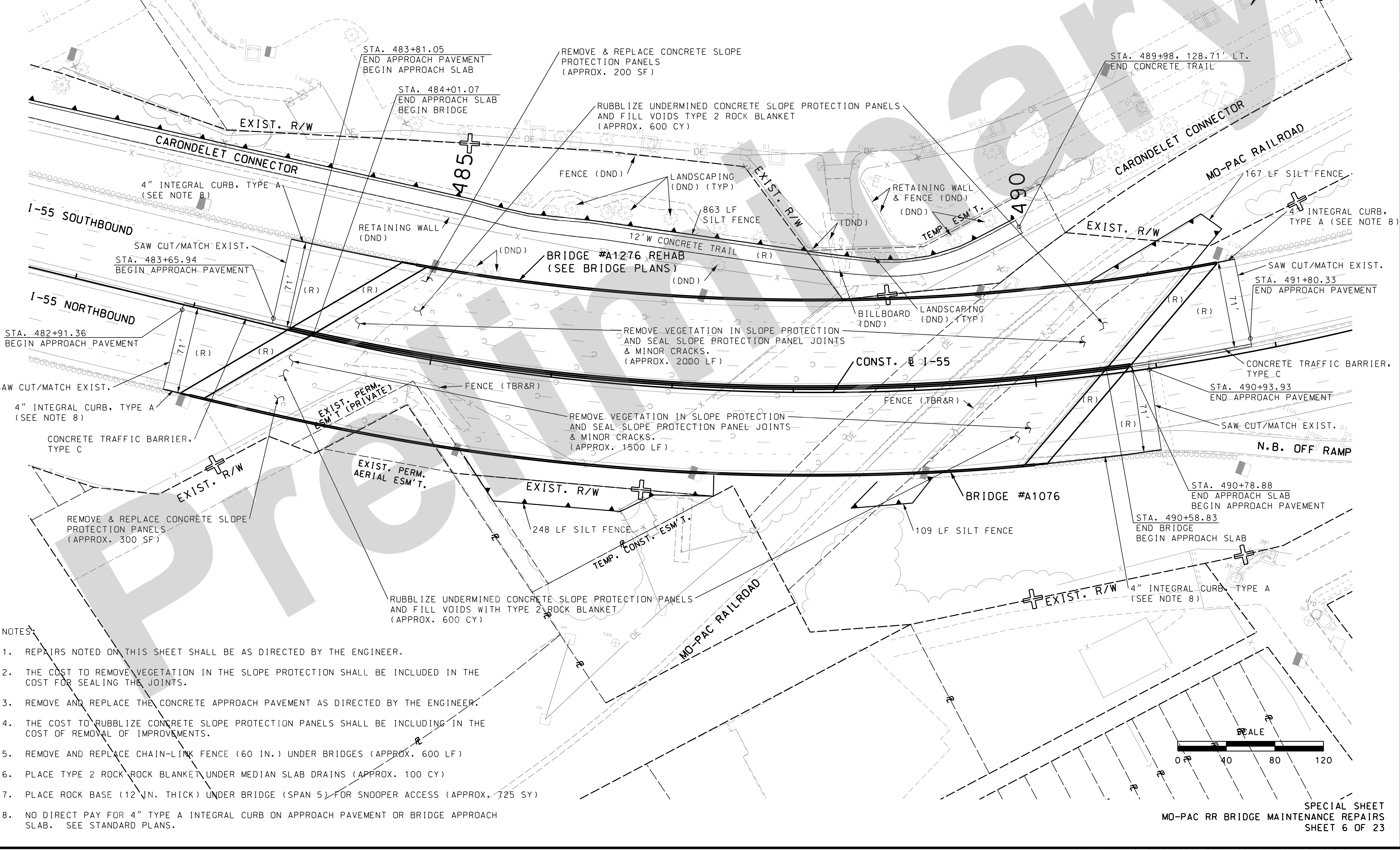
PROJECT NO.
 BRIDGE NO.

DESCRIPTION	DATE

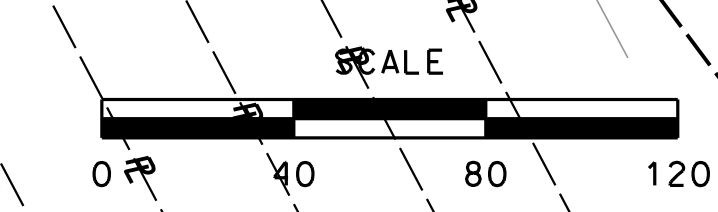
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



- NOTES:**
1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
 2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
 3. REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.
 4. THE COST TO RUBBLIZE CONCRETE SLOPE PROTECTION PANELS SHALL BE INCLUDING IN THE COST OF REMOVAL OF IMPROVEMENTS.
 5. REMOVE AND REPLACE CHAIN-LINK FENCE (60 IN.) UNDER BRIDGES (APPROX. 600 LF)
 6. PLACE TYPE 2 ROCK/ROCK BLANKET UNDER MEDIAN SLAB DRAINS (APPROX. 100 CY)
 7. PLACE ROCK BASE (12 IN. THICK) UNDER BRIDGE (SPAN 5) FOR SNOOPER ACCESS (APPROX. 125 SY)
 8. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.

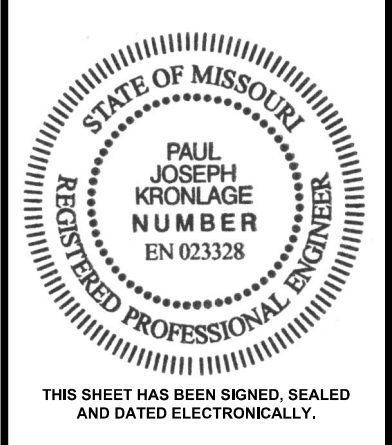


SPECIAL SHEET
 MO-PAC RR BRIDGE MAINTENANCE REPAIRS
 SHEET 6 OF 23

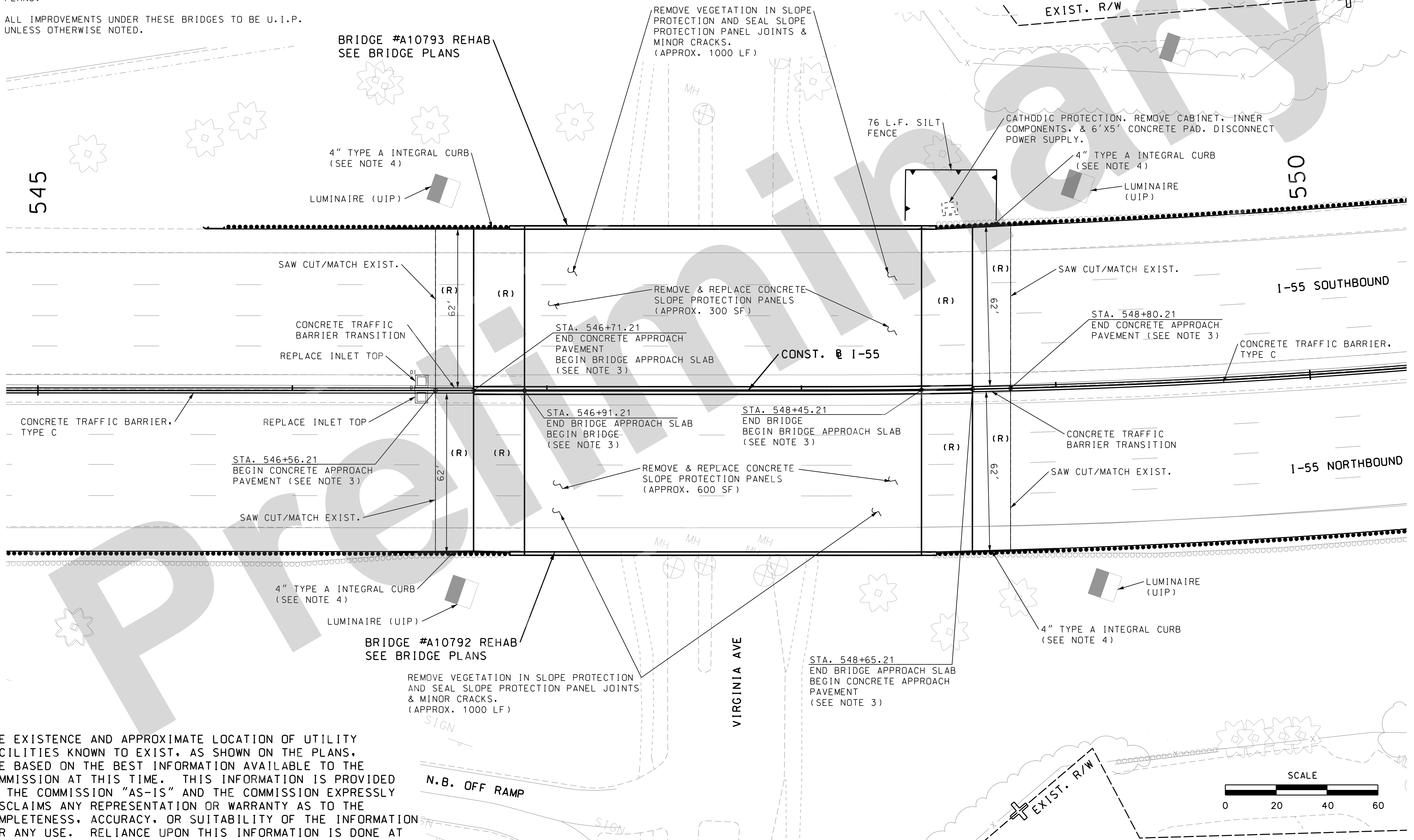
NOTES:

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2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
3. AS-BUILT BRIDGE PLAN STATIONING.
4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON CONCRETE APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.
5. ALL IMPROVEMENTS UNDER THESE BRIDGES TO BE U.I.P. UNLESS OTHERWISE NOTED.

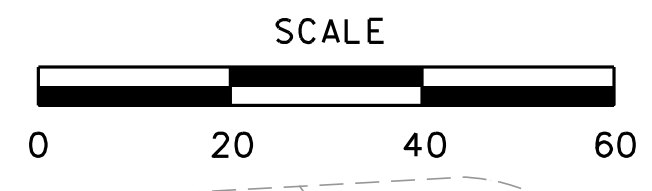
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DATE PREPARED
 05-AUG-2021
 ROUTE
 I-55
 STATE
 MO
 DISTRICT
 SL
 SHEET NO.
 54
 COUNTY
 ST. LOUIS CITY
 JOB NO.
 J613149
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.



SPECIAL SHEET
 VIRGINIA AVE MAINTENANCE REPAIRS
 SHEET 7 OF 23

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MDOT (1-888-275-6636)

EKK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
 314-594-5100

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
3. AS-BUILT BRIDGE PLAN STATIONING.
4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON CONCRETE APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.
5. ALL IMPROVEMENTS UNDER THESE BRIDGES TO BE U.I.P. UNLESS OTHERWISE NOTED.

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DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **55**
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

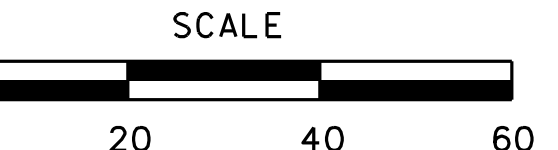
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

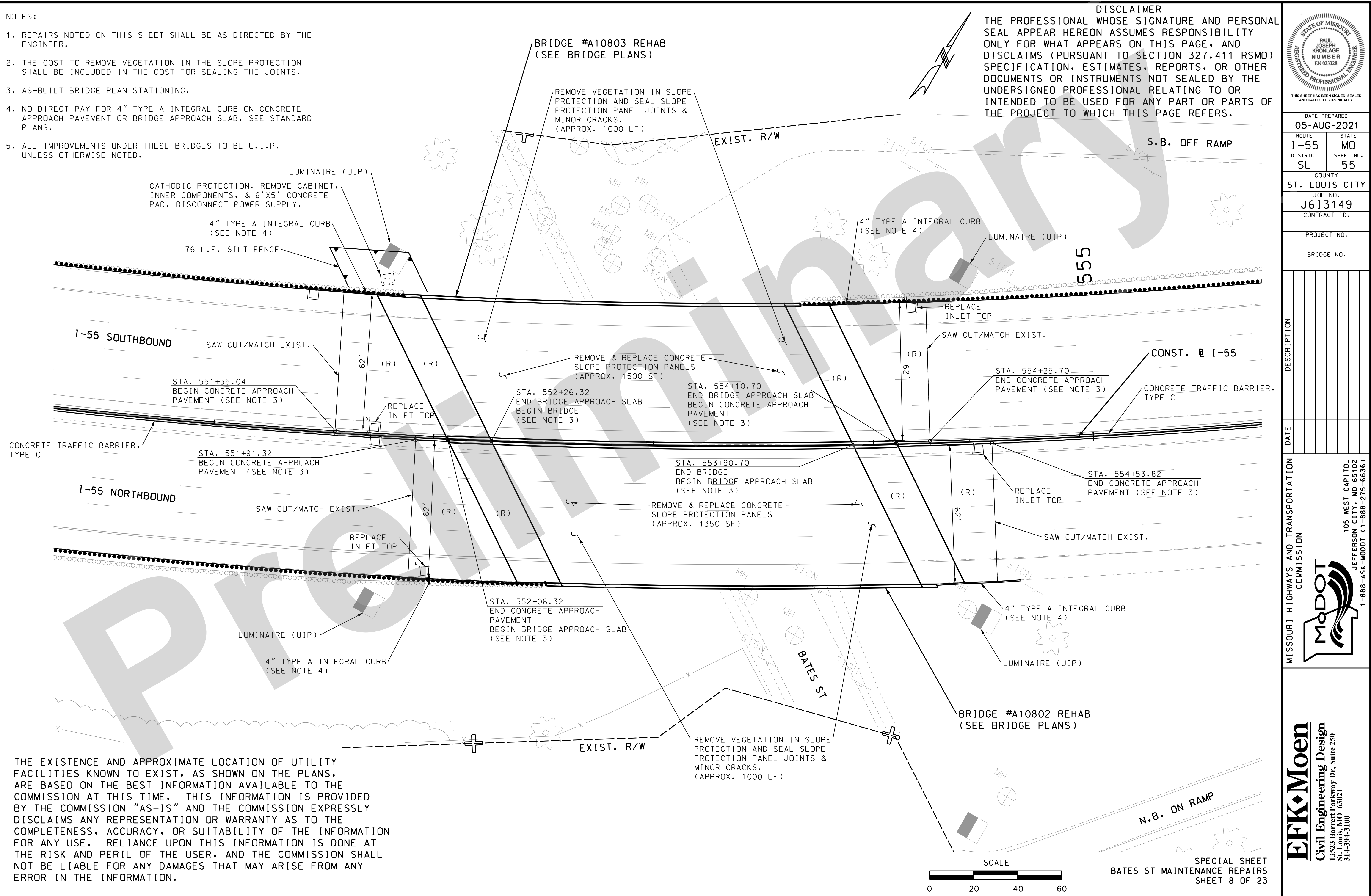
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
 Civil Engineering Design
 1323 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
 314-594-5100

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.



SPECIAL SHEET
 BATES ST MAINTENANCE REPAIRS
 SHEET 8 OF 23



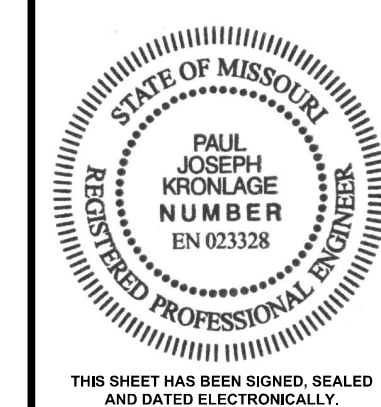
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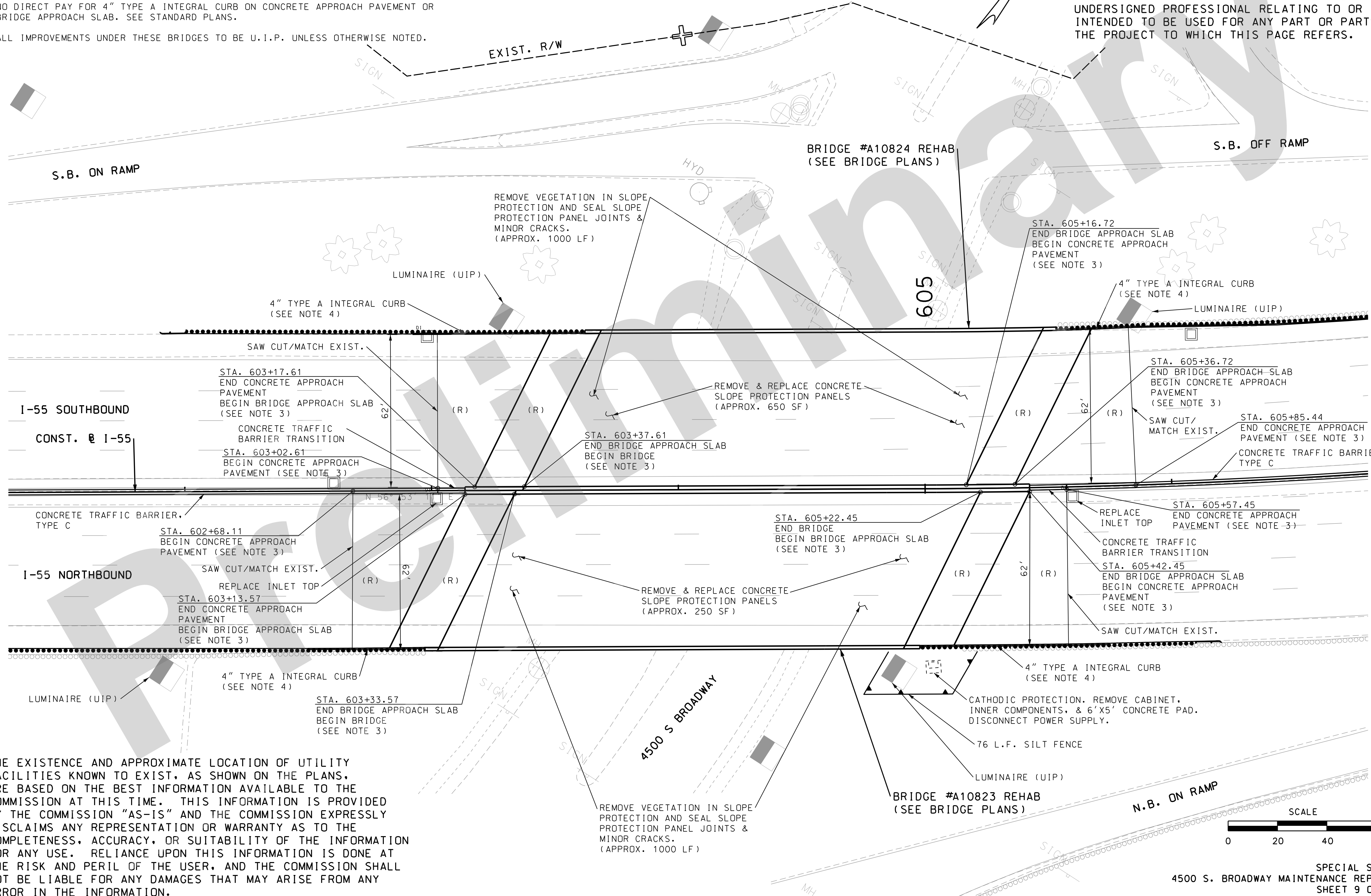
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2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
3. AS-BUILT BRIDGE PLAN STATIONING.
4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON CONCRETE APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.
5. ALL IMPROVEMENTS UNDER THESE BRIDGES TO BE U.I.P. UNLESS OTHERWISE NOTED.

DISCLAIMER

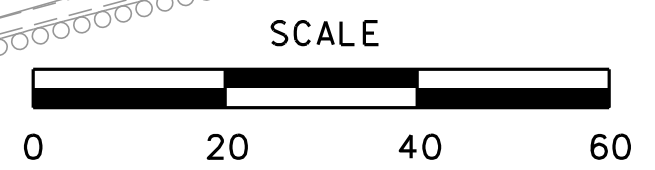
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DATE PREPARED	
05-AUG-2021	
ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	56
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.



SPECIAL SHEET
4500 S. BROADWAY MAINTENANCE REPAIRS
SHEET 9 OF 23

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr., Suite 250
St. Louis, MO 63021
314-594-5100

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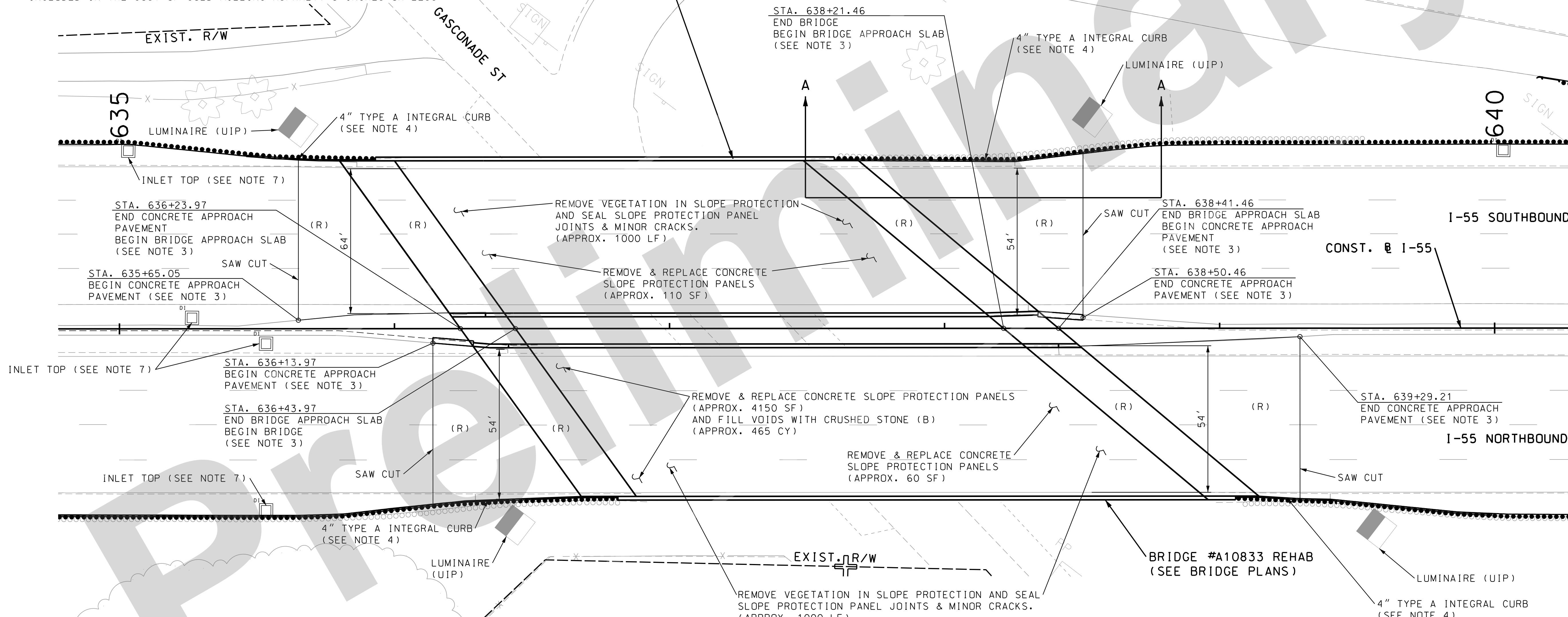
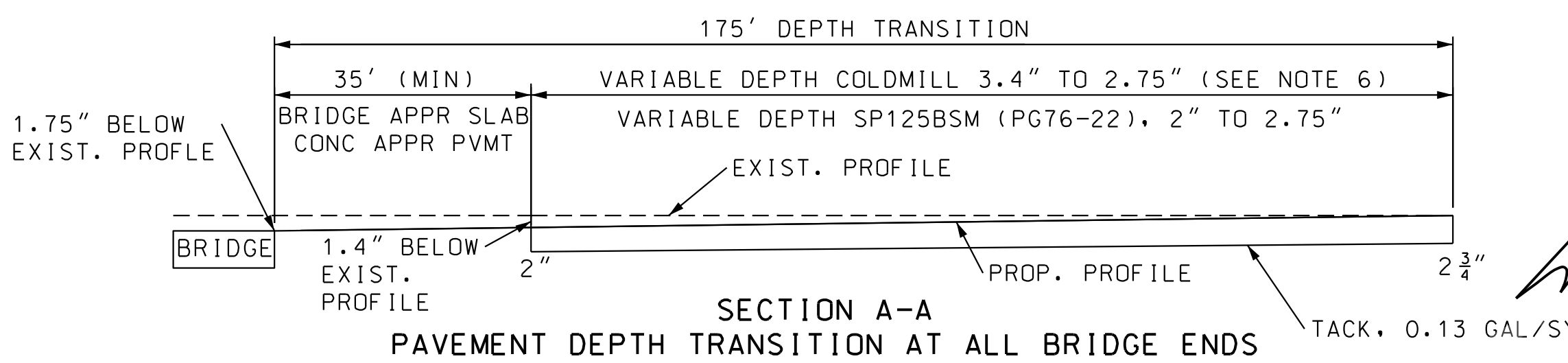
NOTES:

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2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
3. AS-BUILT BRIDGE PLAN STATIONING.
4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON CONCRETE APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.
5. ALL IMPROVEMENTS UNDER THESE BRIDGES TO BE U.I.P. UNLESS OTHERWISE NOTED.
6. PAY FOR COLDMILLING FROM 3.4" TO 3" SHALL BE PAID FOR UNDER ITEM 622-10.01, COLDMILLING, 3" OR LESS.
7. CONCRETE LID SHALL BE COLD MILLED TO THE DEPTH OF THE SURROUNDING PAVEMENT AND RESURFACING SHALL BUTT UP AGAINST THE SIDES OF THE BEARING PLATE ASSEMBLY. PAYMENT FOR MILLING THESE CONCRETE LIDS INCLUDED IN THE COST OF COLD MILLING ASPHALT, 3 INCHES OR LESS.

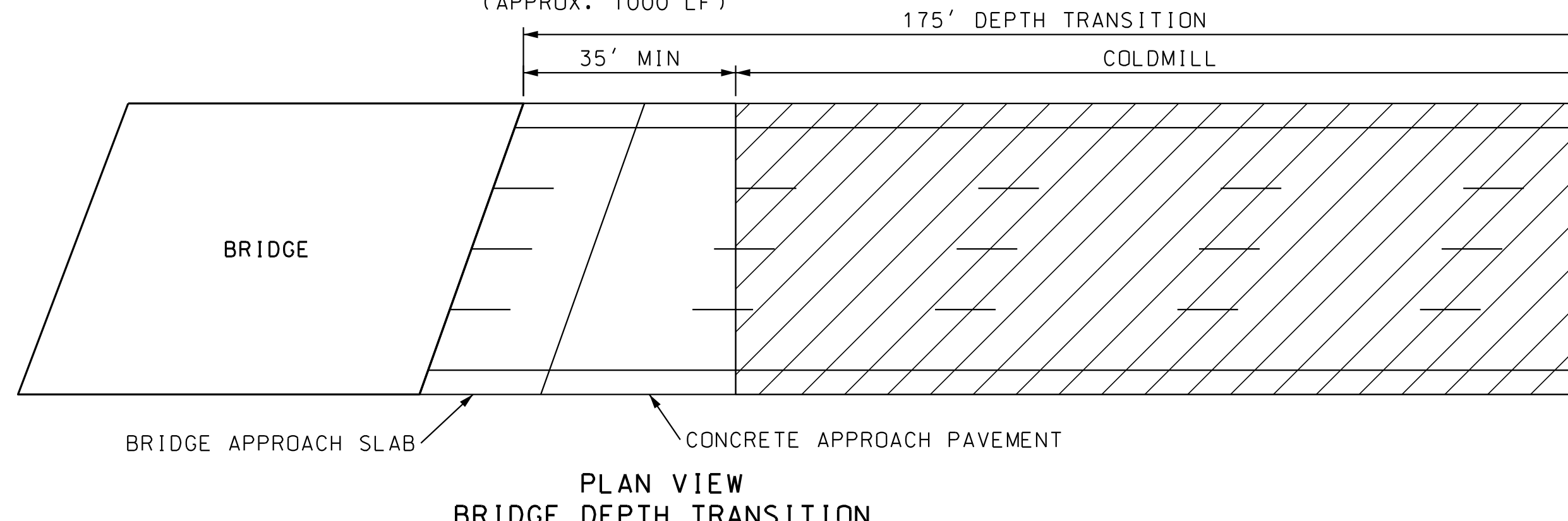
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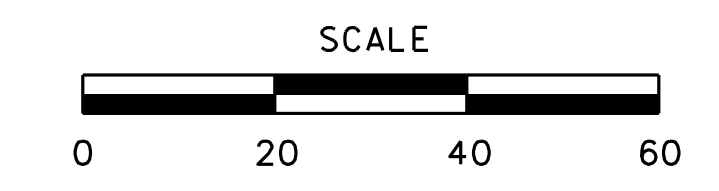
DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 57
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



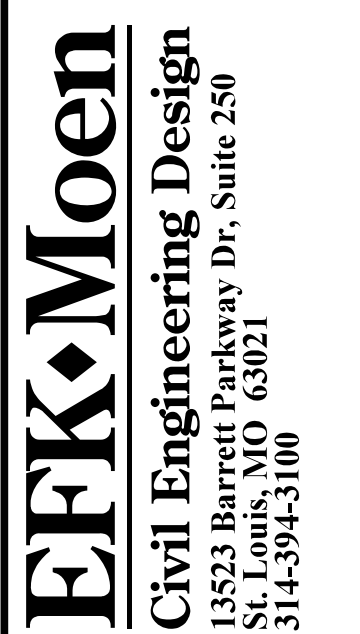
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APPLICATION RATES:
 ASPHALTIC CONCRETE MIXTURE,
 SP125BSM (PG 76-22)
 1.96 TONS/CY
 TACK COAT
 0.13 GAL/SY



SPECIAL SHEET
 GASCONADE ST MAINTENANCE REPAIRS
 SHEET 10 OF 23



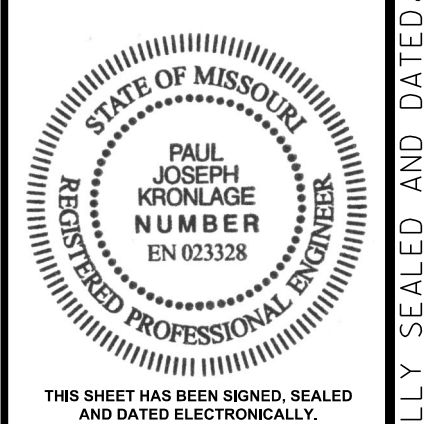
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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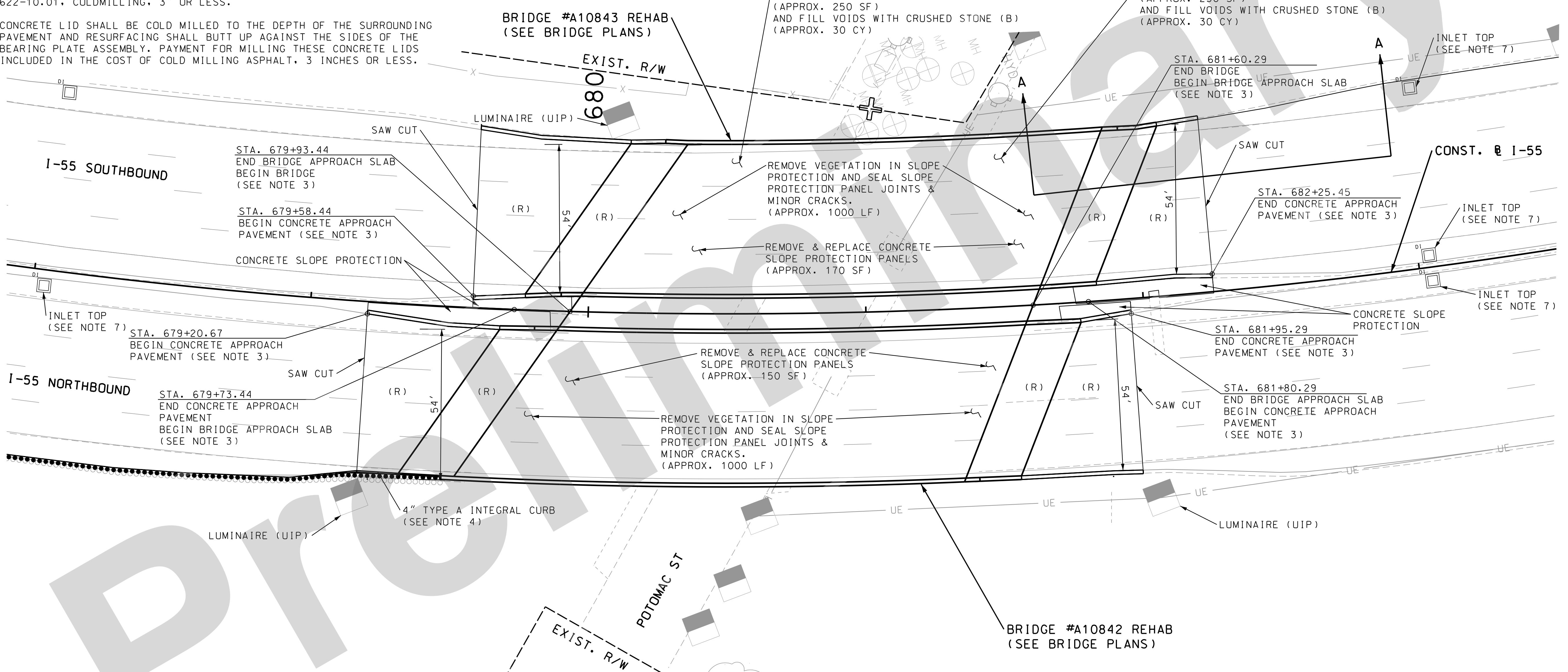
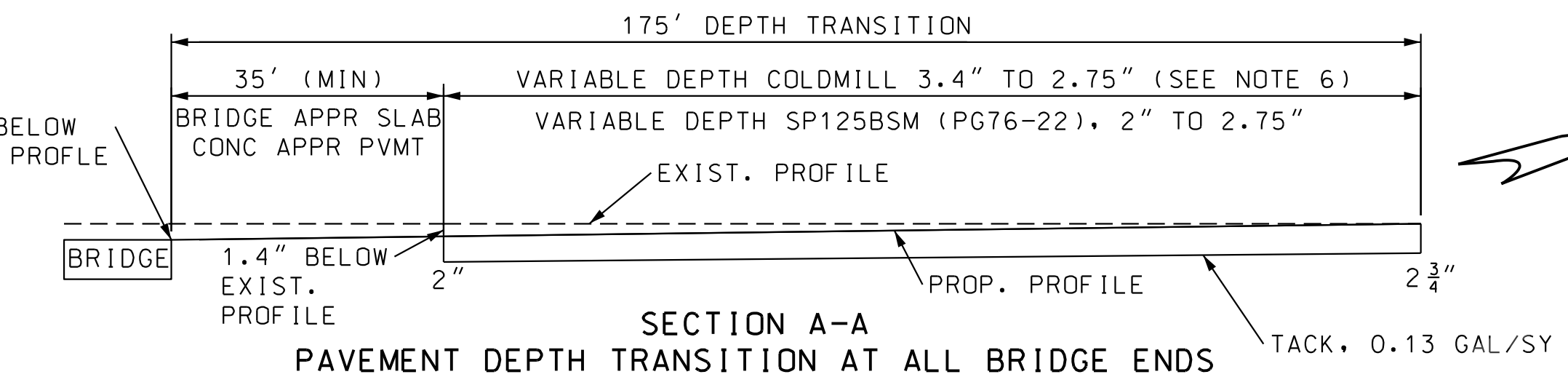
NOTES:

1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
3. AS-BUILT BRIDGE PLAN STATIONING.
4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON CONCRETE APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.
5. ALL IMPROVEMENTS UNDER THESE BRIDGES TO BE U.I.P. UNLESS OTHERWISE NOTED.
6. PAY FOR COLDMILLING FROM 3.4" TO 3" SHALL BE PAID FOR UNDER ITEM 622-10.01, COLDMILLING, 3" OR LESS.
7. CONCRETE LID SHALL BE COLD MILLED TO THE DEPTH OF THE SURROUNDING PAVEMENT AND RESURFACING SHALL BUTT UP AGAINST THE SIDES OF THE BEARING PLATE ASSEMBLY. PAYMENT FOR MILLING THESE CONCRETE LIDS INCLUDED IN THE COST OF COLD MILLING ASPHALT, 3 INCHES OR LESS.

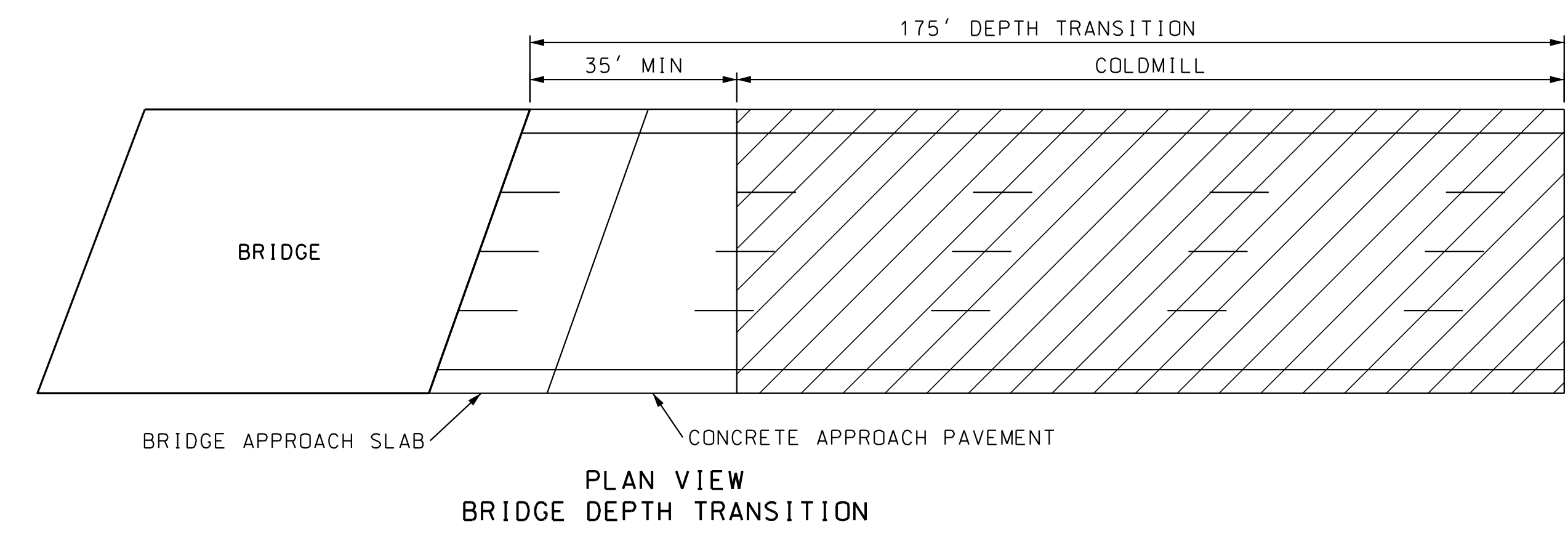
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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 58
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.



APPLICATION RATES:
 ASPHALTIC CONCRETE MIXTURE, SP125BSM (PG 76-22) 1.96 TONS/CY
 TACK COAT 0.13 GAL/SY

SCALE
 0 20 40 60

SPECIAL SHEET
 POTOMAC ST MAINTENANCE REPAIRS
 SHEET 11 OF 23

EKK Moen
 Civil Engineering Design
 1323 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
 314-5945100

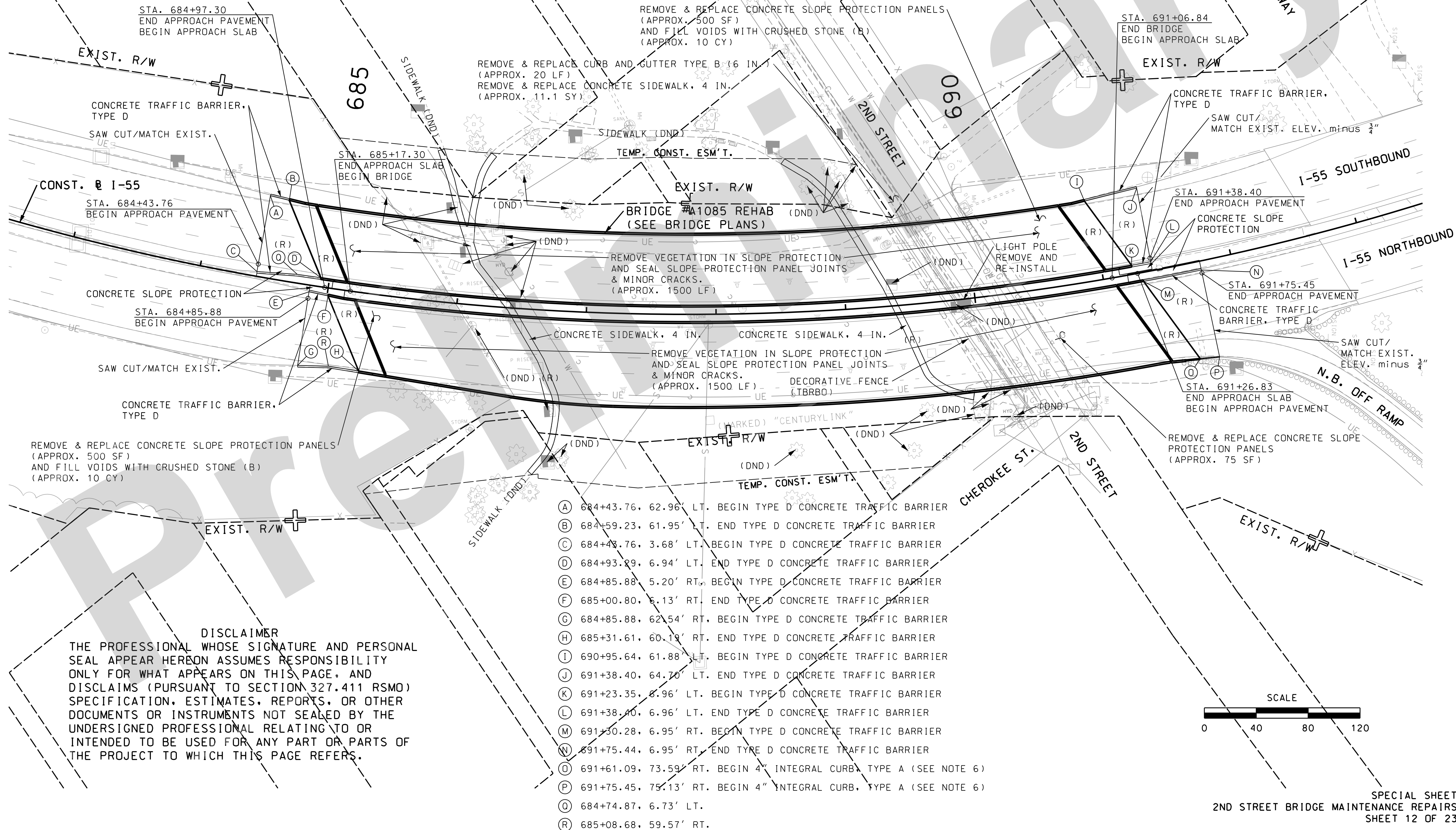
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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NOTES:

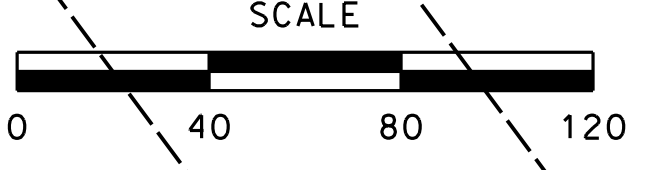
- REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
- THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
- REMOVE AND REPLACE THE CONCRETE APPROACH PAVEMENT AS DIRECTED BY THE ENGINEER.
- ANY ADDITIONAL FILL MATERIAL REQUIRED FOR THE REMOVAL AND REPLACEMENT OF THE TYPE D CONCRETE TRAFFIC BARRIER & CONCRETE SLOPE PROTECTION IN THE MEDIAN AT THE NORTH & SOUTH END OF THE 2ND ST. BRIDGE SHALL BE CONSIDERED INCIDENTAL.
- THE COST TO REMOVE AND RE-INSTALL CITY LIGHT POLE SHALL BE INCLUDED IN THE COST FOR REMOVAL OF IMPROVEMENTS.
- NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.

- 6' CHAIN LINK FENCE WITH DOUBLE GATE SHALL BE INSTALLED ALONG 2ND STREET FOR DURATION OF CONSTRUCTION. (INCIDENTAL TO TEMPORARY TRAFFIC CONTROL LUMP SUM) (APPROX. 205 LF)
- ORANGE CONSTRUCTION FENCING SHALL BE INSTALLED AROUND TEMP. EASEMENT FOR DURATION OF CONSTRUCTION. (INCIDENTAL TO TEMPORARY TRAFFIC CONTROL LUMP SUM) (APPROX. 630 LF)
- AREA WITHIN TEMP. EASEMENT AND UNDER BRIDGE SHALL BE SEEDED/SODDED TO RESTORE TO CURRENT CONDITION UPON COMPLETION OF CONSTRUCTION.
- ASPHALT SIDEWALK WITHIN EASEMENT AND UNDER BRIDGE SHALL BE REPLACED WITH 4 IN. CONCRETE SIDEWALK UPON COMPLETION OF CONSTRUCTION.
- PUBLIC CURB AND SIDEWALK DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN-KIND.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO ANY PORTION OF THE IRRIGATION SYSTEM.

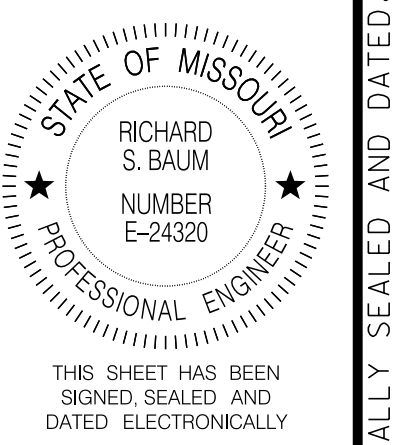


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- (A) 684+43.76, 62.96' LT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (B) 684+59.23, 61.95' LT. END TYPE D CONCRETE TRAFFIC BARRIER
- (C) 684+43.76, 3.68' LT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (D) 684+93.29, 6.94' LT. END TYPE D CONCRETE TRAFFIC BARRIER
- (E) 684+85.88, 5.20' RT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (F) 685+00.80, 6.13' RT. END TYPE D CONCRETE TRAFFIC BARRIER
- (G) 684+85.88, 62.54' RT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (H) 685+31.61, 60.19' RT. END TYPE D CONCRETE TRAFFIC BARRIER
- (I) 690+95.64, 61.88' LT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (J) 691+38.40, 64.70' LT. END TYPE D CONCRETE TRAFFIC BARRIER
- (K) 691+23.35, 8.96' LT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (L) 691+38.40, 6.96' LT. END TYPE D CONCRETE TRAFFIC BARRIER
- (M) 691+30.28, 6.95' RT. BEGIN TYPE D CONCRETE TRAFFIC BARRIER
- (N) 691+75.44, 6.95' RT. END TYPE D CONCRETE TRAFFIC BARRIER
- (O) 691+61.09, 73.59' RT. BEGIN 4" INTEGRAL CURB, TYPE A (SEE NOTE 6)
- (P) 691+75.45, 75.13' RT. BEGIN 4" INTEGRAL CURB, TYPE A (SEE NOTE 6)
- (Q) 684+74.87, 6.73' LT.
- (R) 685+08.68, 59.57' RT.



SPECIAL SHEET
 2ND STREET BRIDGE MAINTENANCE REPAIRS
 SHEET 12 OF 23



DATE PREPARED 12-OCT-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 59
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

NOTES:

1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
2. THE COST TO REMOVE VEGETATION IN THE SLOPE PROTECTION SHALL BE INCLUDED IN THE COST FOR SEALING THE JOINTS.
3. AS-BUILT BRIDGE PLAN STATIONING.
4. NO DIRECT PAY FOR 4" TYPE A INTEGRAL CURB ON CONCRETE APPROACH PAVEMENT OR BRIDGE APPROACH SLAB. SEE STANDARD PLANS.
5. ALL IMPROVEMENTS UNDER THESE BRIDGES TO BE U.I.P. UNLESS OTHERWISE NOTED.
6. PAY FOR COLDMILLING FROM 3.4" TO 3" SHALL BE PAID FOR UNDER ITEM 622-10.01, COLDMILLING, 3" OR LESS.
7. MILL THE CONCRETE SURFACE AS NEEDED TO CONFORM TO THE NEW PROFILE GRADES OF THE RAMP AND MAINLINE. PAYMENT FOR MILLING CONCRETE IN THIS RAMP GORE TO BE INCLUDED IN THE COST OF COLDMILLING CONCRETE PAVEMENT FOR REMOVAL OF SURFACE.

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 60

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

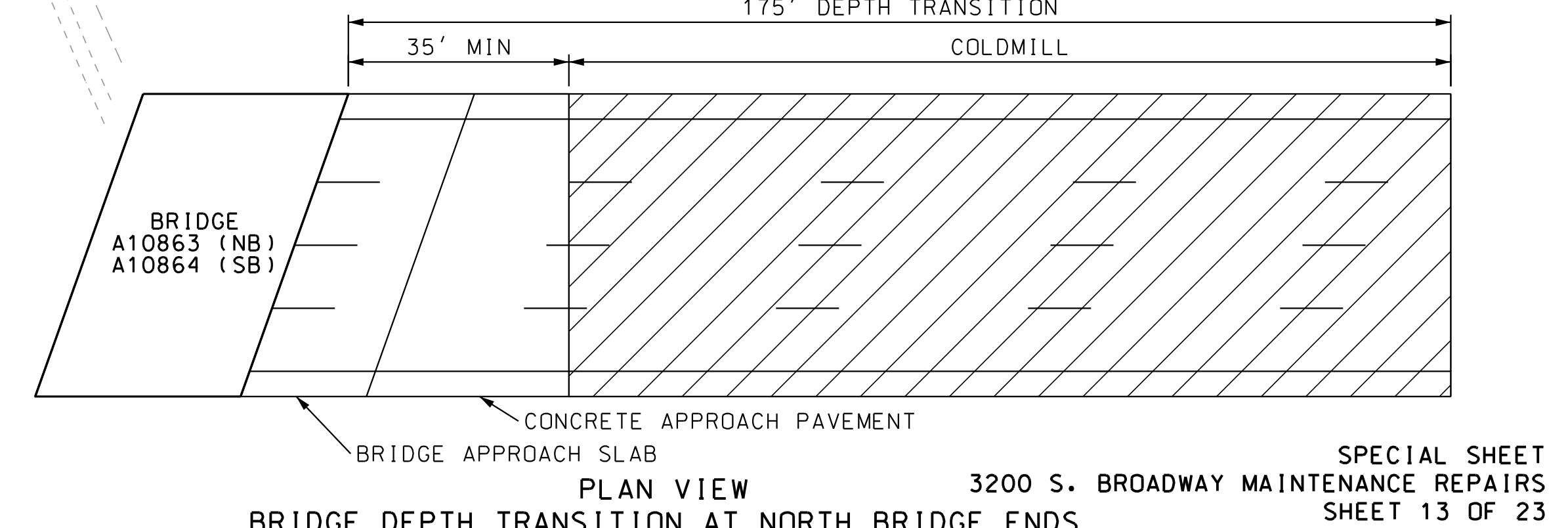
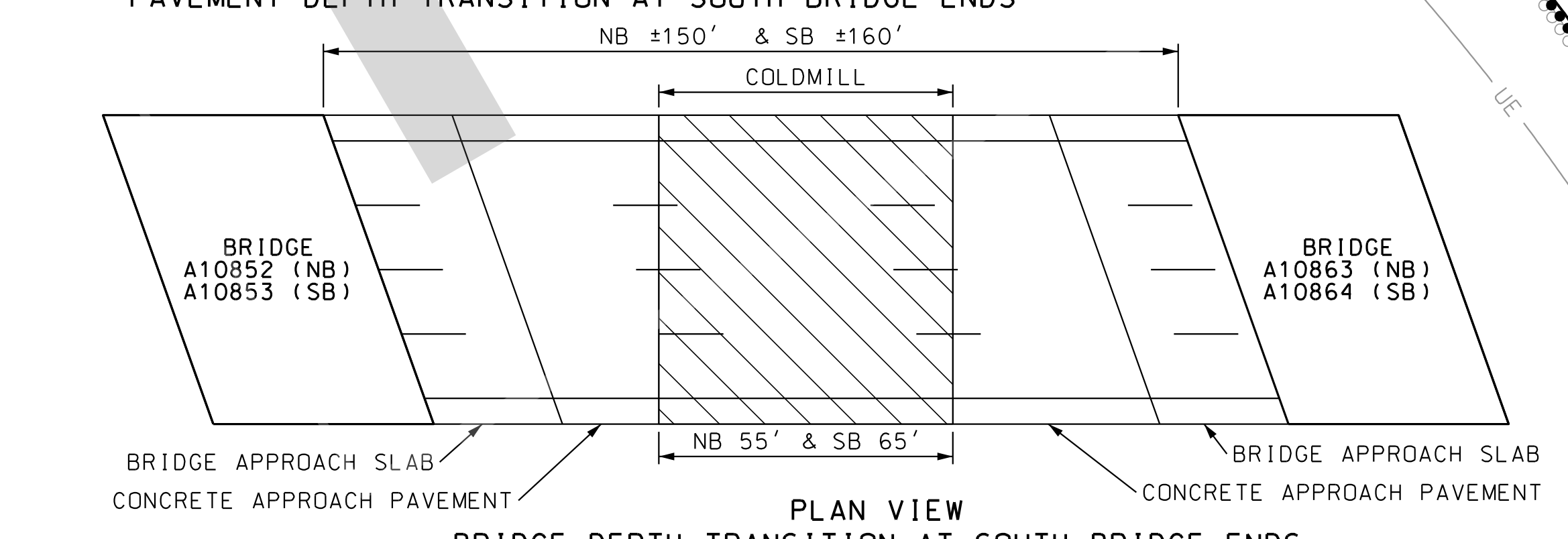
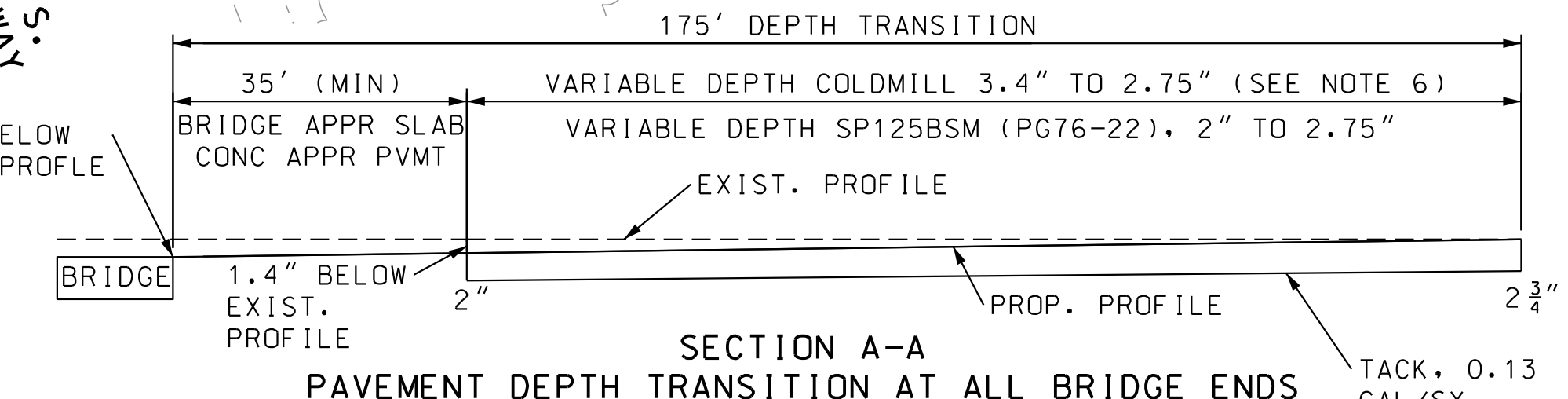
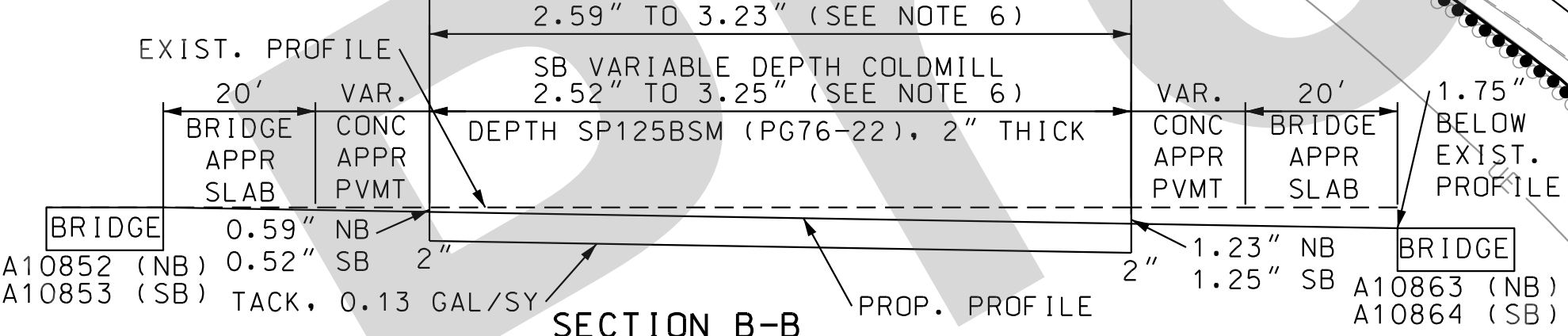
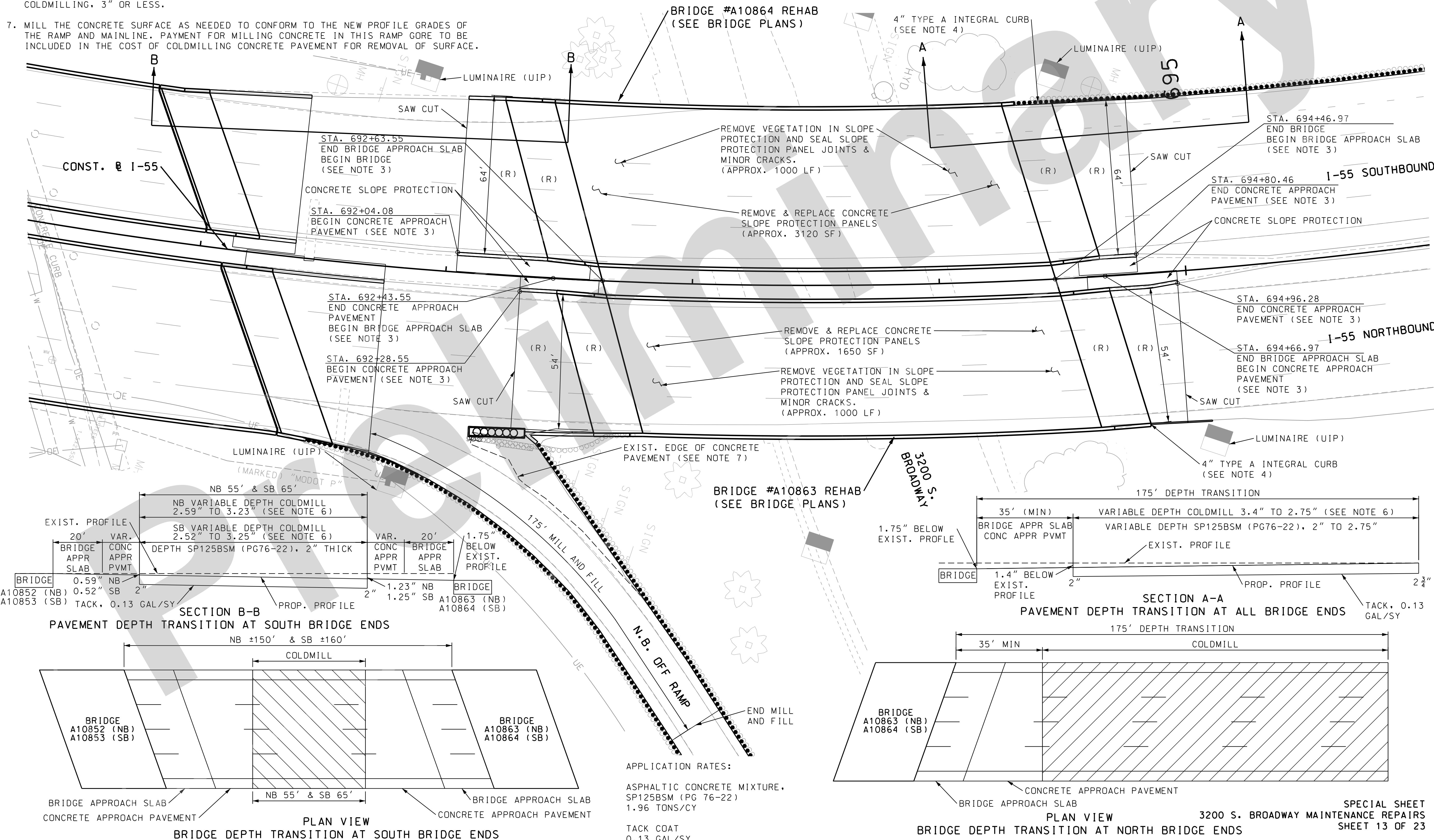
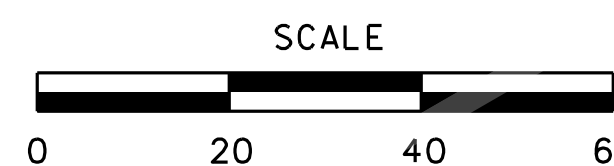
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

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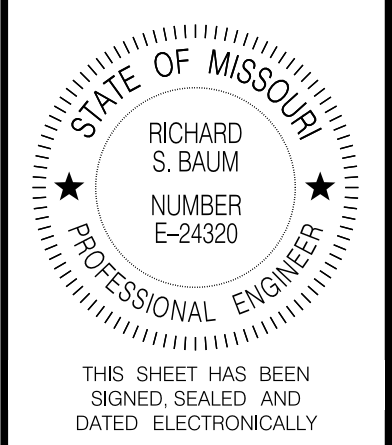
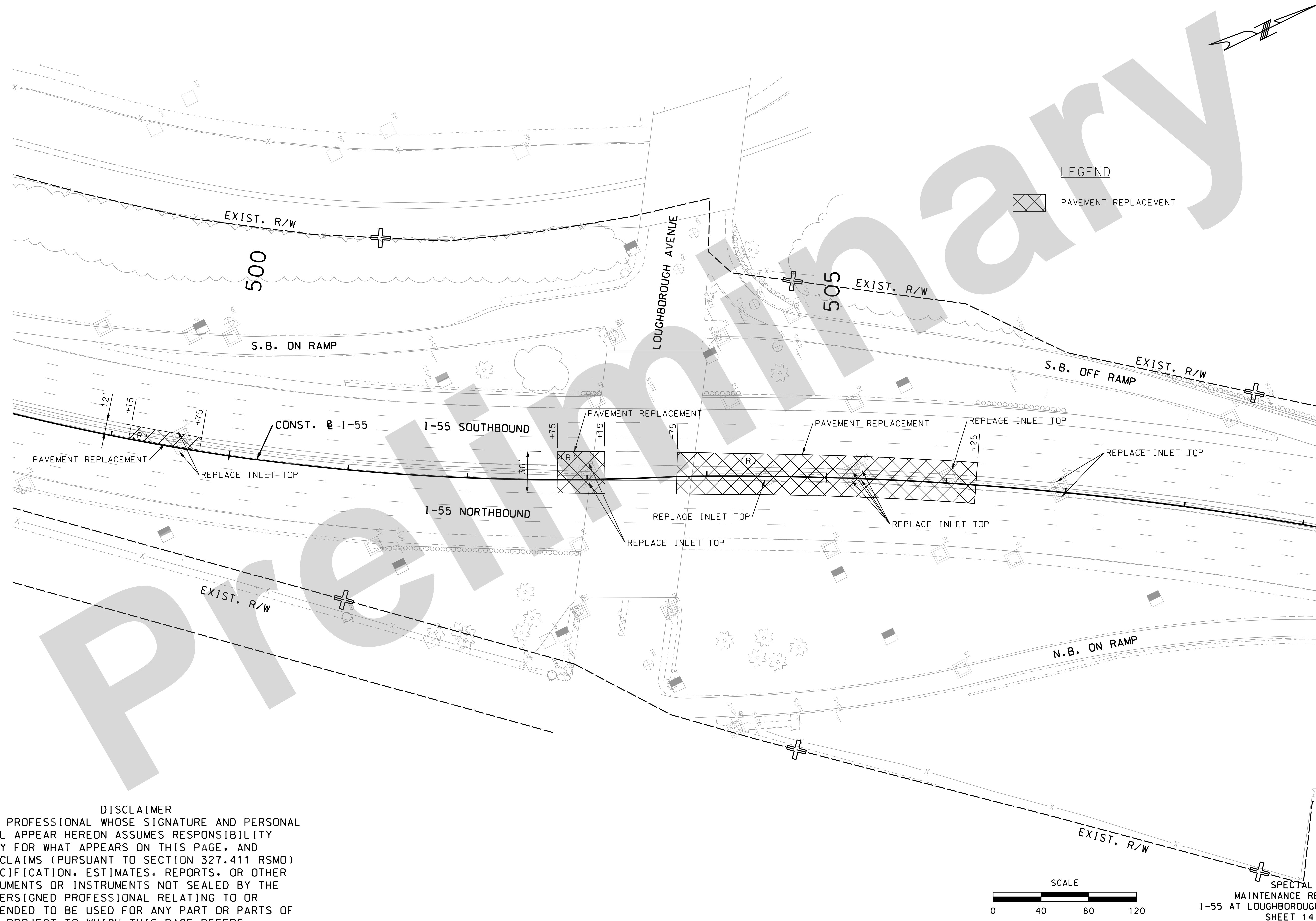


APPLICATION RATES:
ASPHALTIC CONCRETE MIXTURE, SP125BSM (PG 76-22) 1.96 TONS/CY
TACK COAT 0.13 GAL/SY

SPECIAL SHEET
3200 S. BROADWAY MAINTENANCE REPAIRS
SHEET 13 OF 23

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON PAVEMENT REPLACEMENT



DATE PREPARED
05-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 61

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

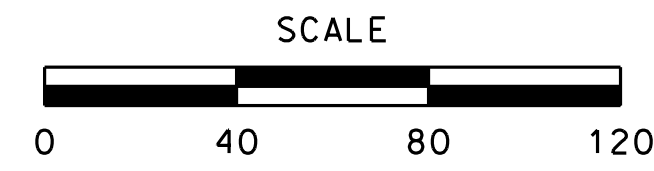
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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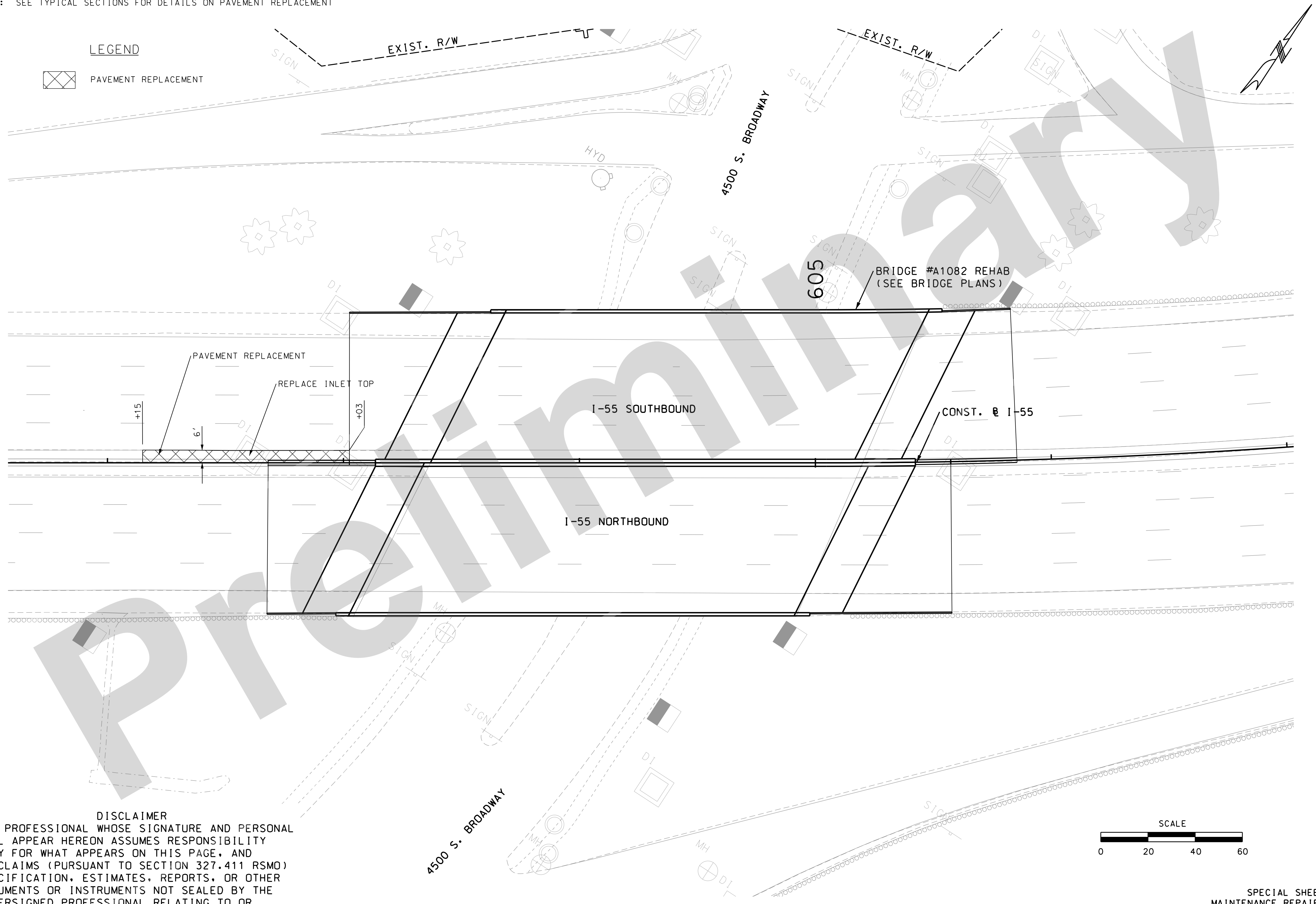
SPECIAL SHEET
MAINTENANCE REPAIRS
I-55 AT LOUGHBOROUGH AVE.
SHEET 14 OF 23

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTE: SEE TYPICAL SECTIONS FOR DETAILS ON PAVEMENT REPLACEMENT

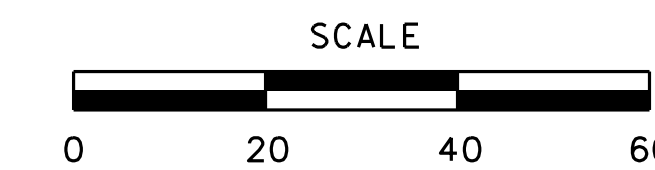
LEGEND

 PAVEMENT REPLACEMENT

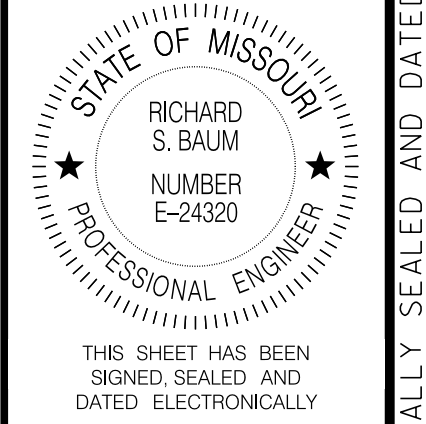


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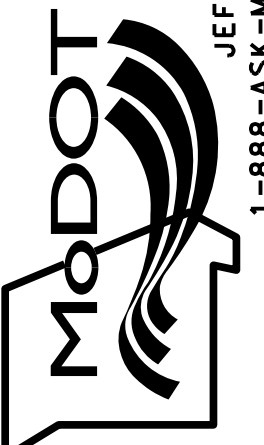
SPECIAL SHEET
MAINTENANCE REPAIRS
I-55 AT 4500 S. BROADWAY
SHEET 15 OF 23



DATE PREPARED
05-AUG-2021
ROUTE **I-55** STATE **MO**
DISTRICT **SL** SHEET NO. **62**
COUNTY
ST. LOUIS CITY
JOB NO.
J613149
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

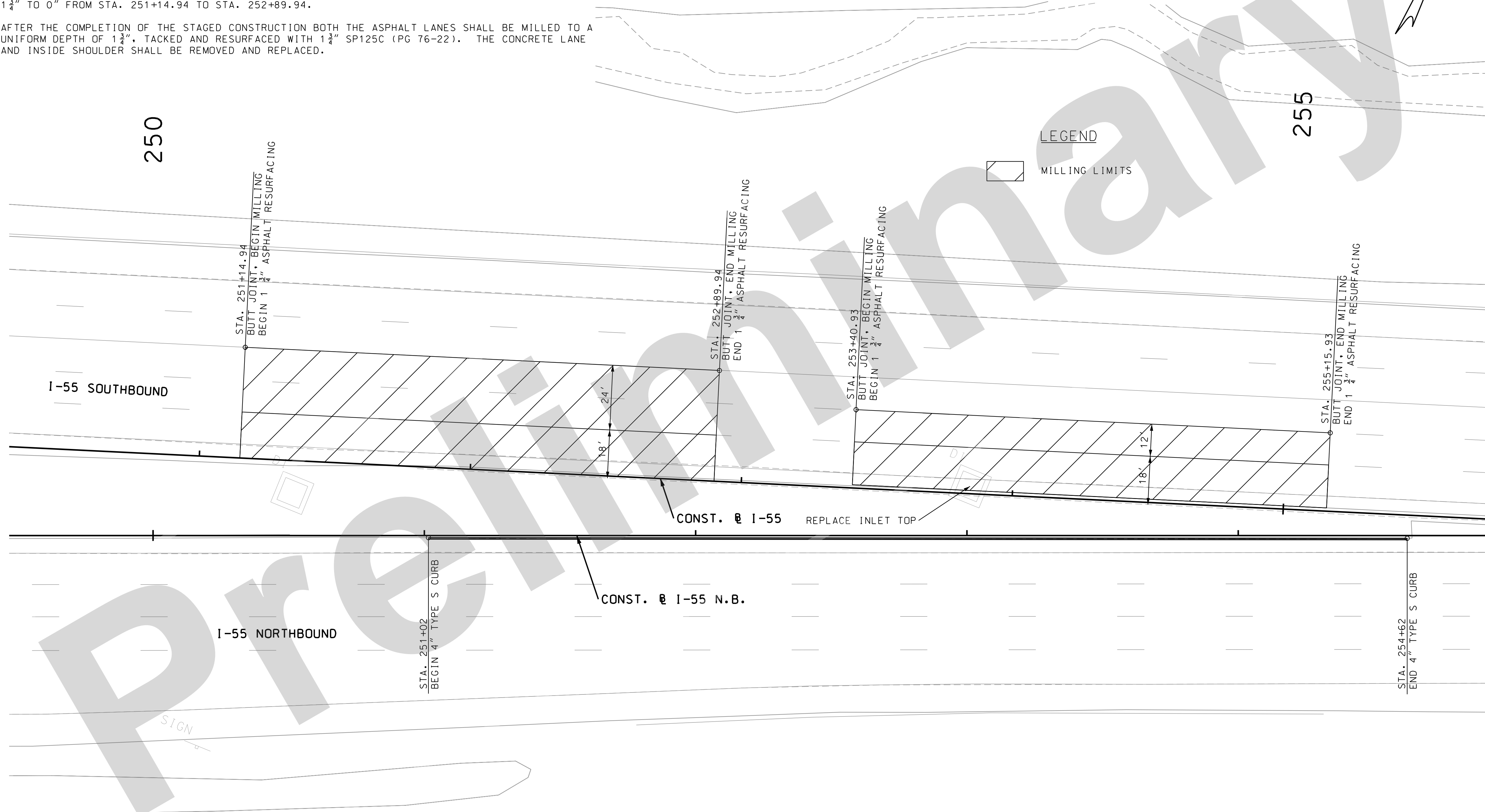
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)


JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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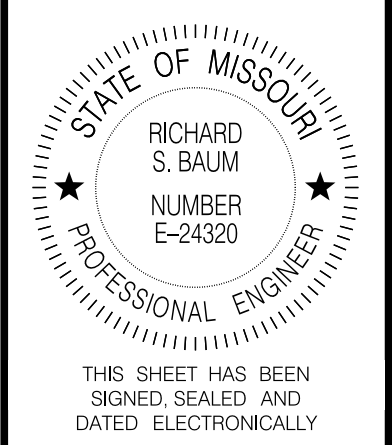
NOTES:

1. REPAIRS NOTED ON THIS SHEET SHALL BE AS DIRECTED BY THE ENGINEER.
2. ANY SAW CUTS REQUIRED TO REMOVE CURB SHALL BE CONSIDERED INCIDENTAL.
3. IN PREPARATION FOR THE STAGE 3 CROSSOVER PROFILE TIE IN THE S.B. PAVEMENT SHALL BE MILLED 0" TO 1 3/4" FROM STA. 253+40.93 TO STA. 255+15.93.
4. IN PREPARATION FOR THE STAGE 4 CROSSOVER PROFILE TIE IN THE S.B. PAVEMENT SHALL BE MILLED 1 3/4" TO 0" FROM STA. 251+14.94 TO STA. 252+89.94.
5. AFTER THE COMPLETION OF THE STAGED CONSTRUCTION BOTH THE ASPHALT LANES SHALL BE MILLED TO A UNIFORM DEPTH OF 1 3/4", TACKED AND RESURFACED WITH 1 3/4" SP125C (PG 76-22). THE CONCRETE LANE AND INSIDE SHOULDER SHALL BE REMOVED AND REPLACED.



LEGEND

MILLING LIMITS



DATE PREPARED
05-AUG-2021

ROUTE 1-55 STATE MO
DISTRICT SL SHEET NO. 63

COUNTY
STL COUNTY/CITY
JOB NO. J613187
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

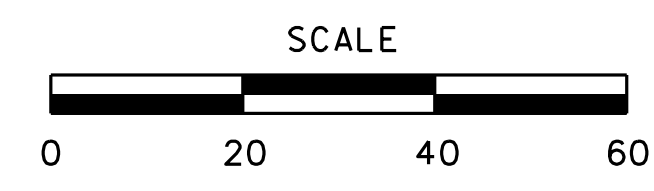
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

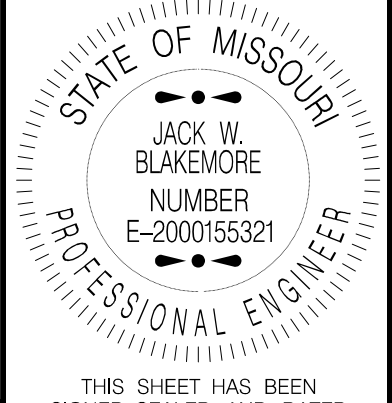
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SPECIAL SHEET
REPAIRS FOR CROSSOVER REMOVAL
STAGE 3 & 4
SHEET 16 OF 23

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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 64

COUNTY
 ST. LOUIS

ST. LOUIS CITY
 JOB NO.

J613149 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

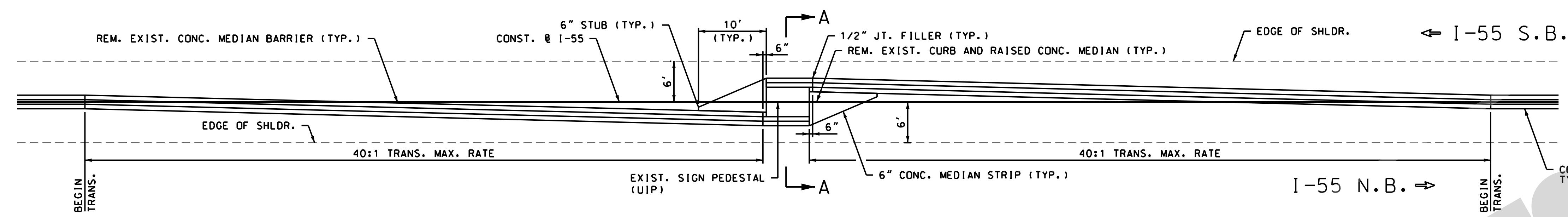
CMT

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 ONE MEMORIAL DRIVE, SUITE 500
 ST. LOUIS, MO 63102 (314) 436-5500
 ENGINEERING CORPORATION - 000631

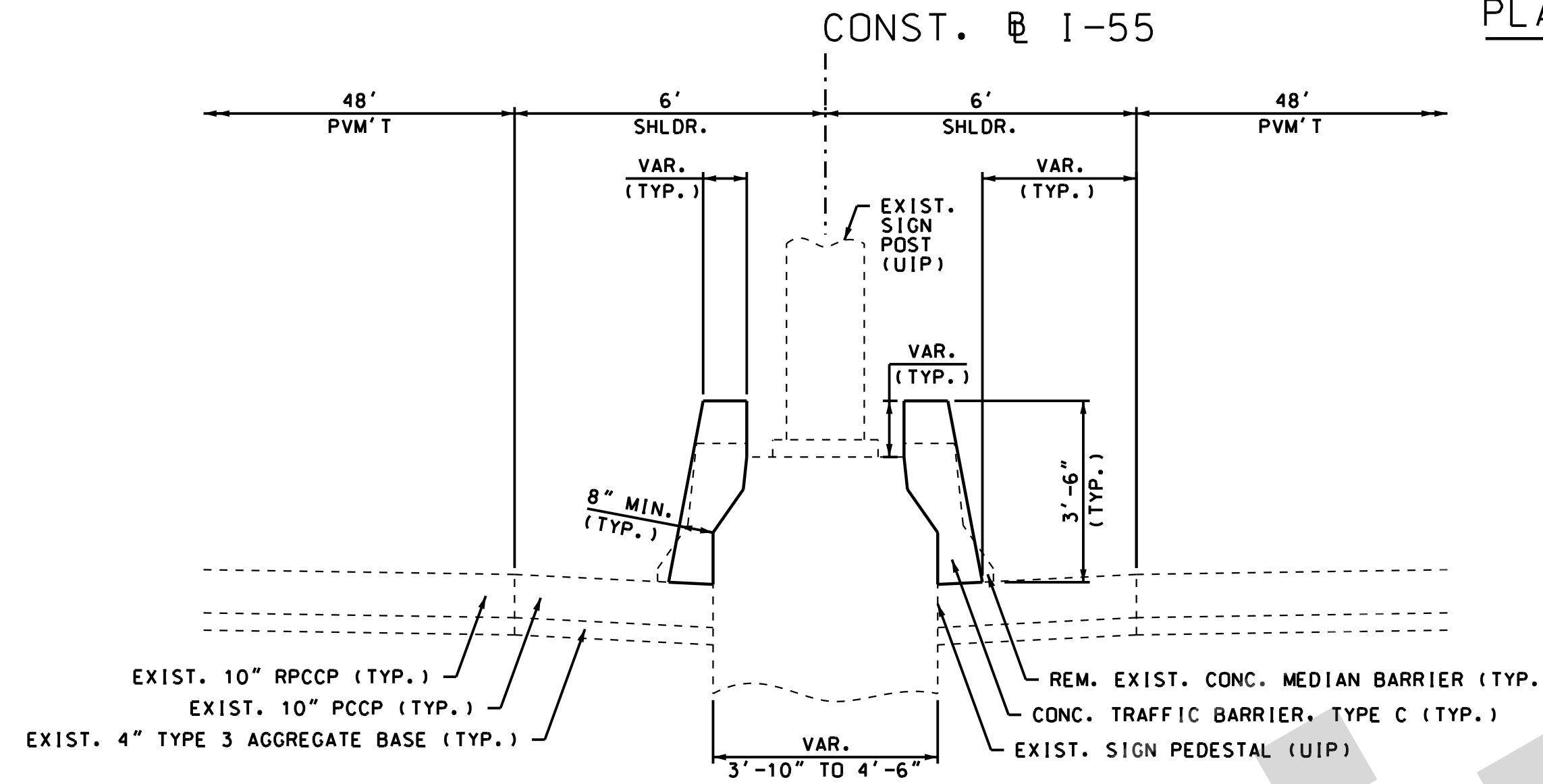
REVISION

SPECIAL SHEET
 MEDIAN BARRIER AND MEDIAN STRIP
 SHEET 17 OF 23

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PLAN

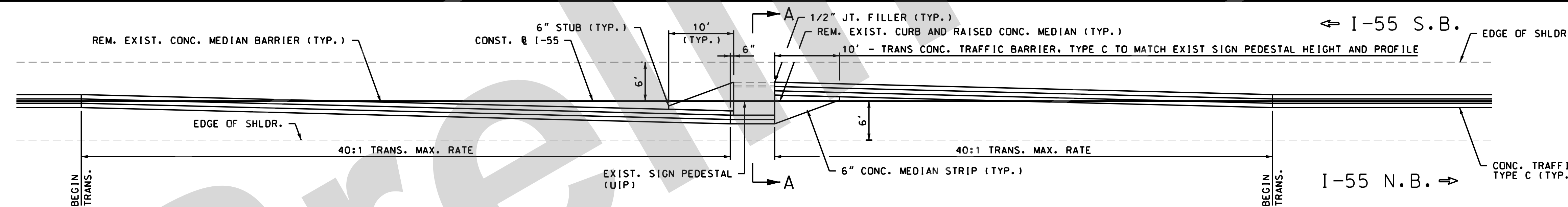


SECTION A-A

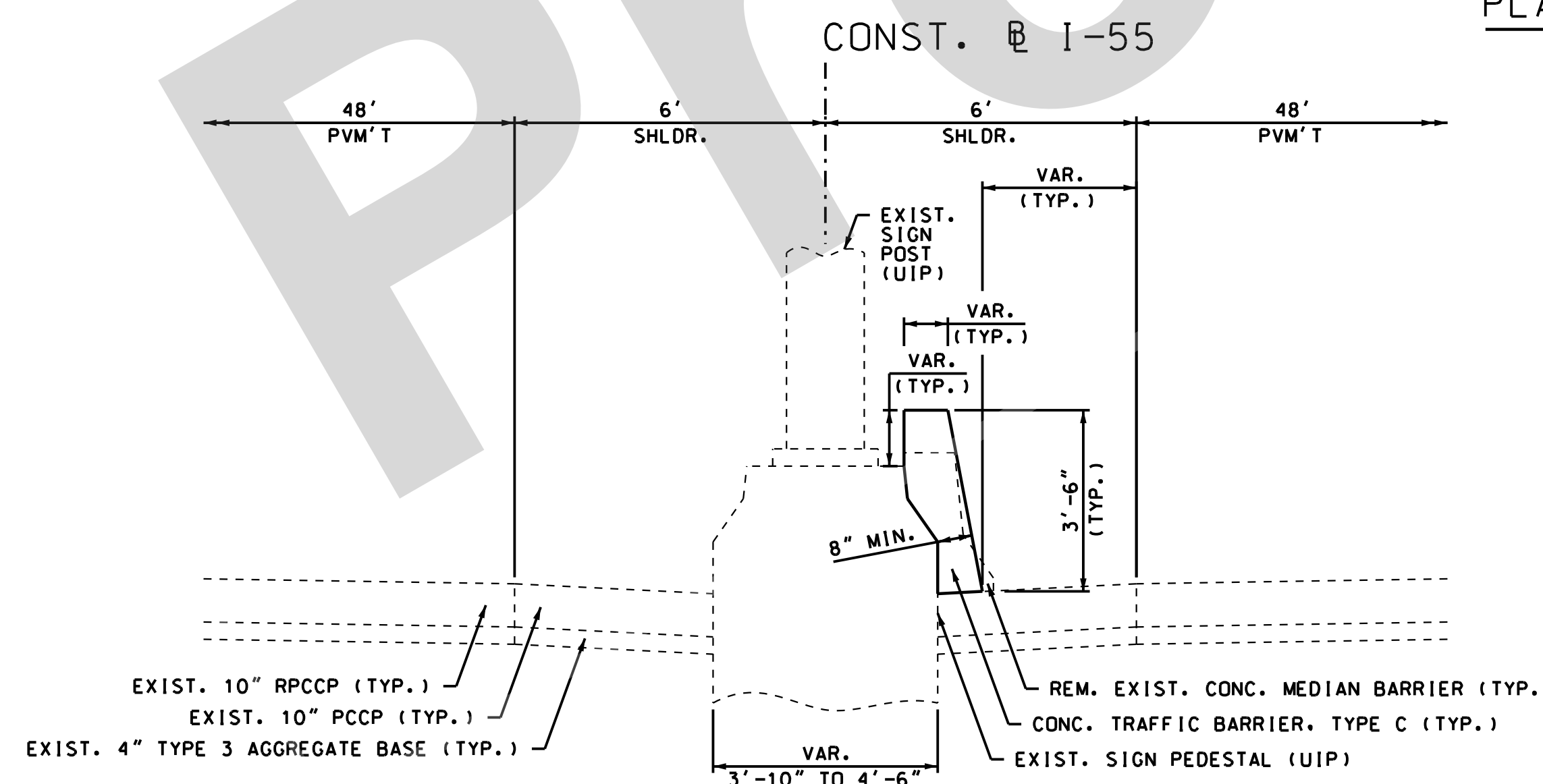
MEDIAN BARRIER ON BOTH SIDES OF EXISTING SIGN PEDESTAL

STA. 309+07.05	STA. 445+22.97	STA. 531+74.45
STA. 321+37.27	STA. 453+94.56	STA. 539+99.37
STA. 373+04.47	STA. 474+94.40	STA. 559+73.45
STA. 398+02.46	STA. 509+33.39	STA. 570+20.40
STA. 431+02.34	STA. 520+11.34	

NOTE: ALL WORK INCLUDED IN THE CONSTRUCTION OF THE CONCRETE TRAFFIC BARRIER, TYPE C ADJACENT TO THE EXISTING SIGN PEDESTAL WILL BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C. INCLUDES EACH TRAFFIC FACE THROUGH THE LIMITS OF THE EXISTING SIGN PEDESTAL.



PLAN



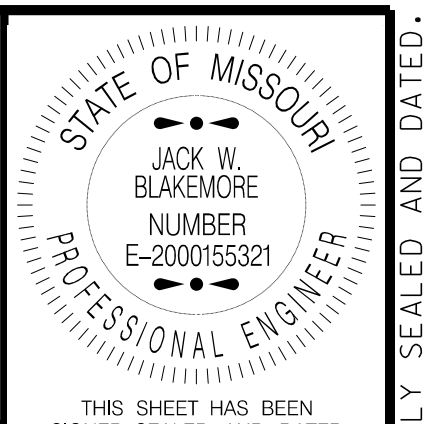
SECTION A-A

MEDIAN BARRIER ON RIGHT SIDE OF EXISTING SIGN PEDESTAL ONLY

STA. 339+51.53
STA. 490+99.00
STA. 590+78.13
STA. 596+02.68

NOTE: ALL WORK INCLUDED IN THE CONSTRUCTION OF THE CONCRETE TRAFFIC BARRIER, TYPE C ADJACENT TO THE EXISTING SIGN PEDESTAL WILL BE PAID FOR AS CONCRETE TRAFFIC BARRIER, TYPE C.

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DATE PREPARED
 05-AUG-2021

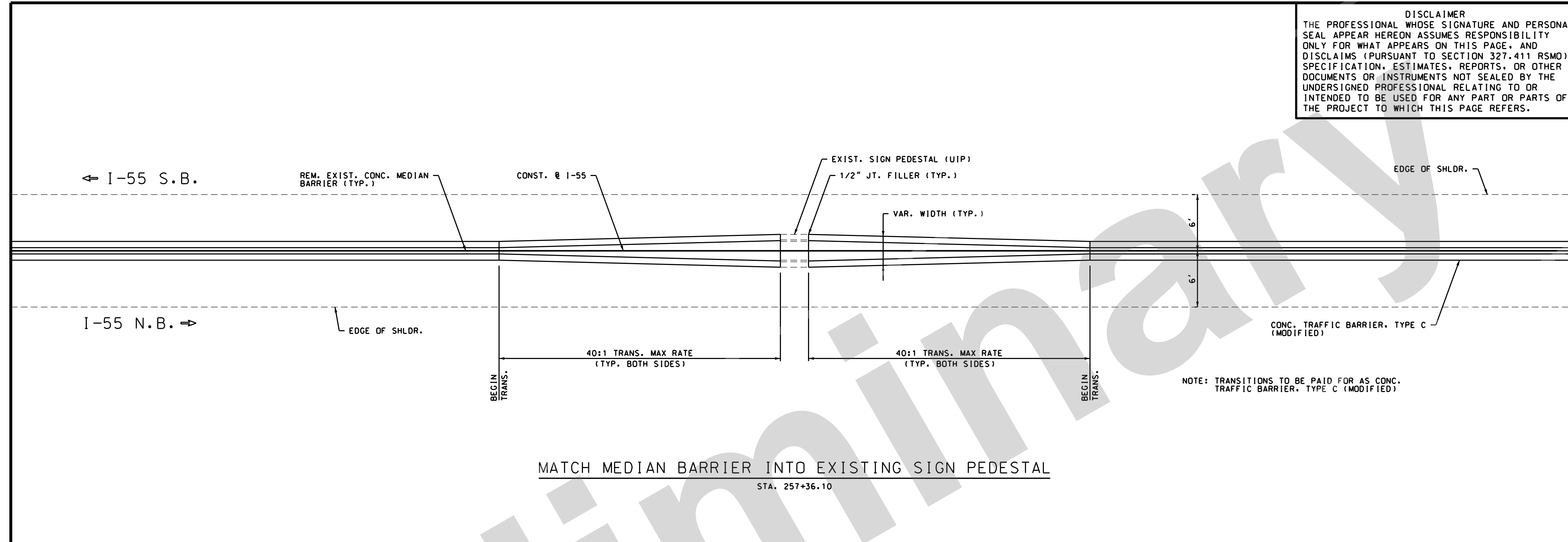
ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 65

COUNTY
 ST. LOUIS

JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

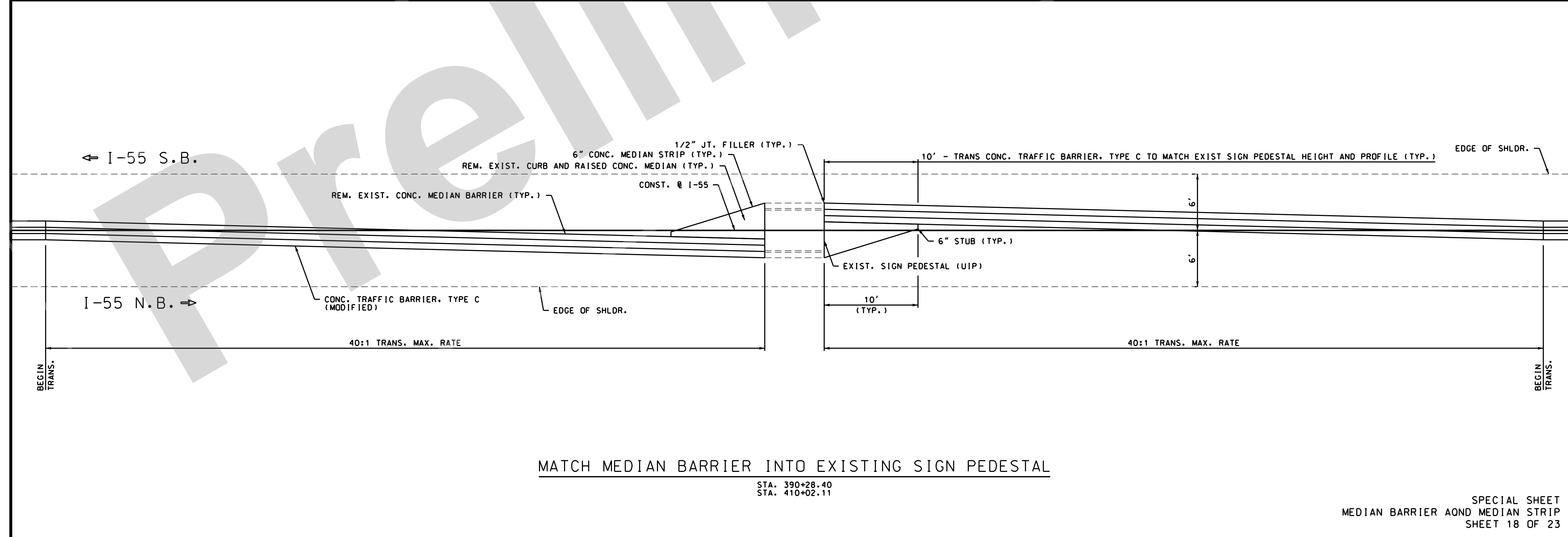
BRIDGE NO.



MATCH MEDIAN BARRIER INTO EXISTING SIGN PEDESTAL

STA. 257+36.10

NOTE: TRANSITIONS TO BE PAID FOR AS CONC. TRAFFIC BARRIER, TYPE C (MODIFIED)



MATCH MEDIAN BARRIER INTO EXISTING SIGN PEDESTAL

STA. 390+28.40
 STA. 410+02.11

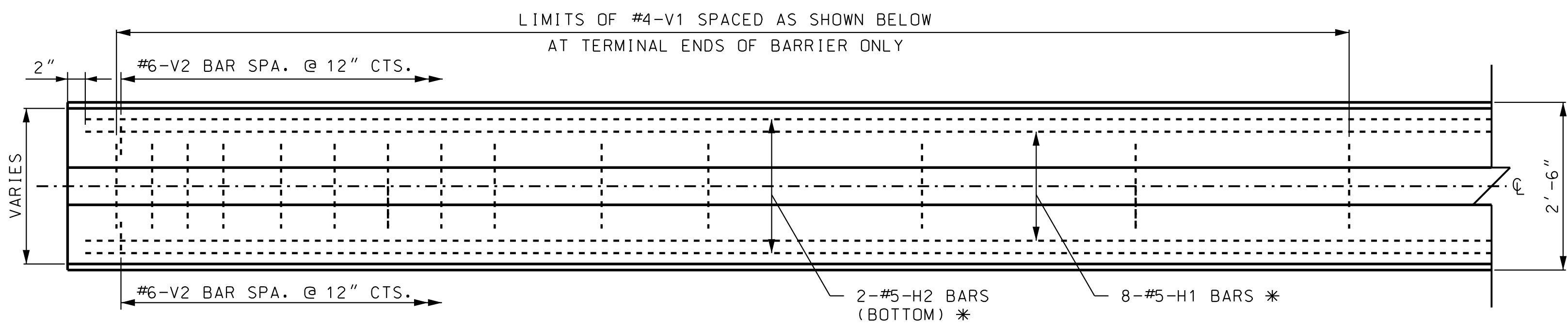
SPECIAL SHEET
 MEDIAN BARRIER AND MEDIAN STRIP
 SHEET 18 OF 23

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

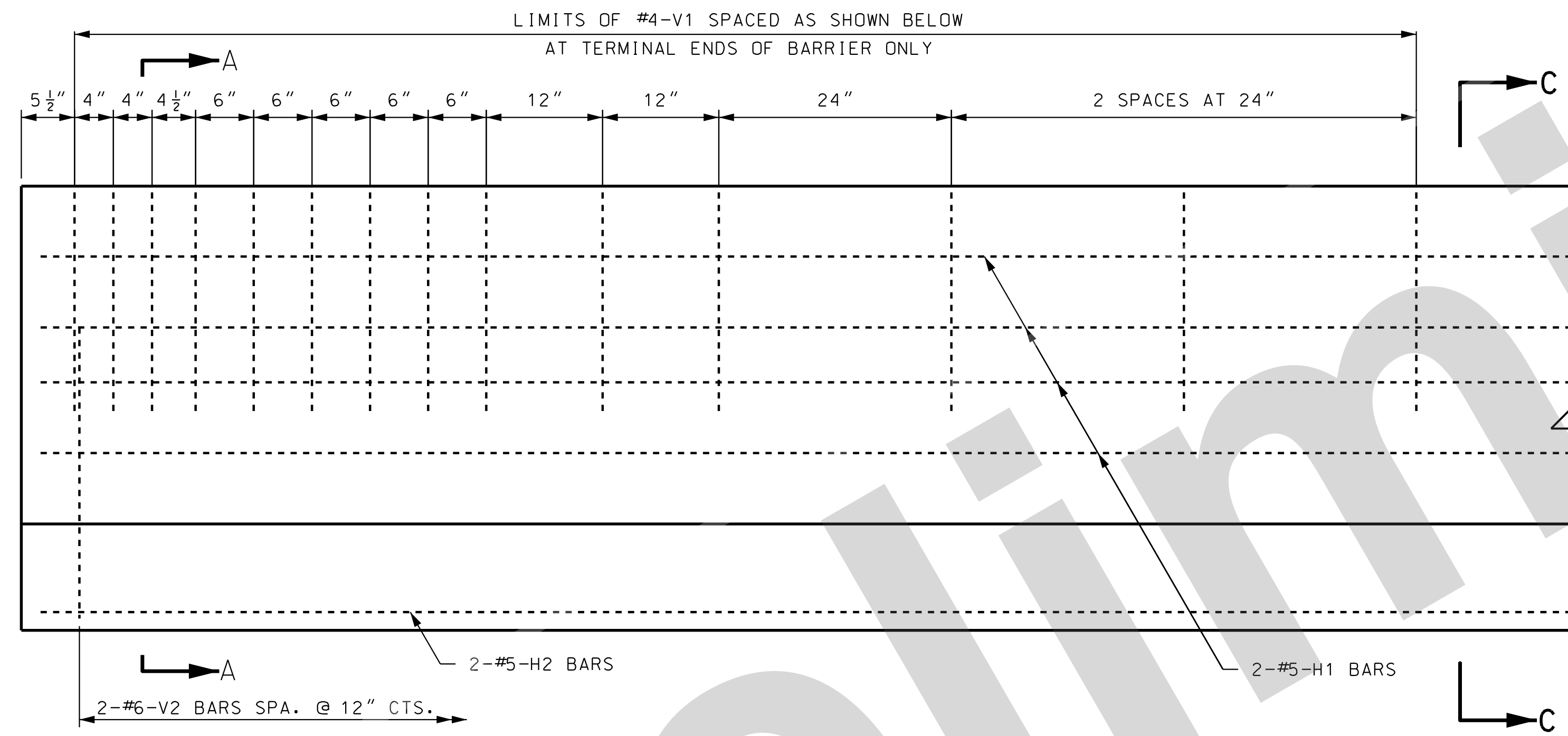
105 WEST CAPITOL
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 1-888-ASK-MODOT (1-888-275-6636)

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 ONE MEMORIAL DRIVE, SUITE 500
 ST. LOUIS, MO 63102 (314) 436-5500
 ENGINEERING CORPORATION - 000631
 REV.

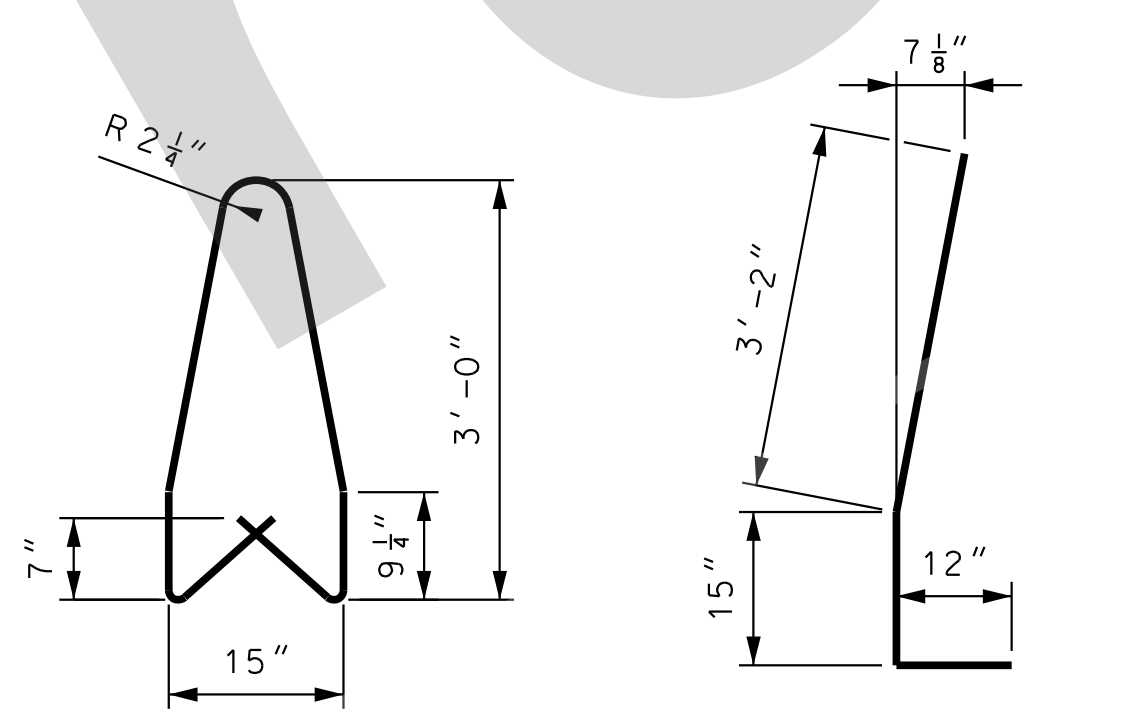


PLAN OF BARRIER, TYPE C (MODIFIED)

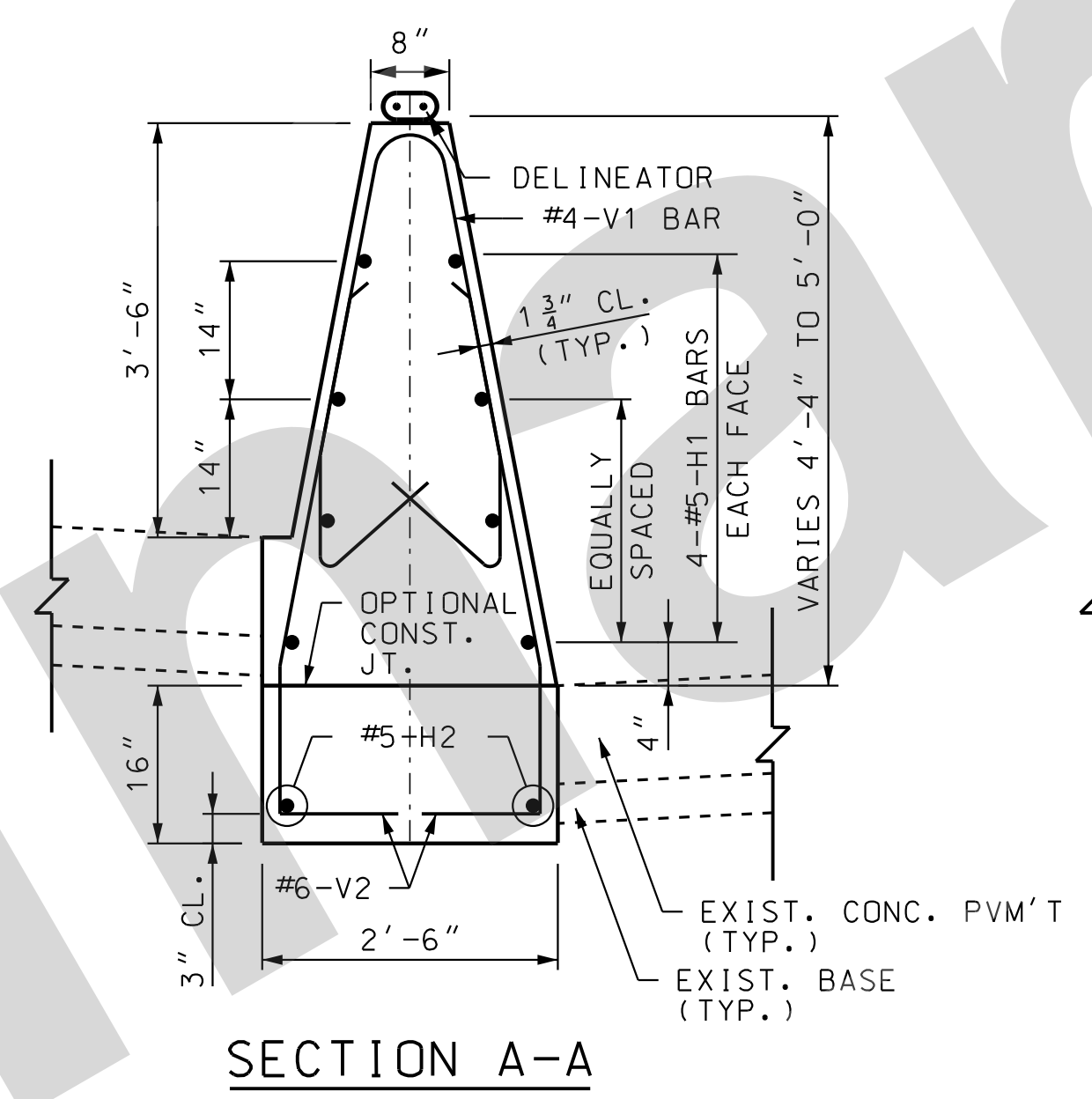
* SEE SECTIONS A-A AND C-C FOR BAR SPACING



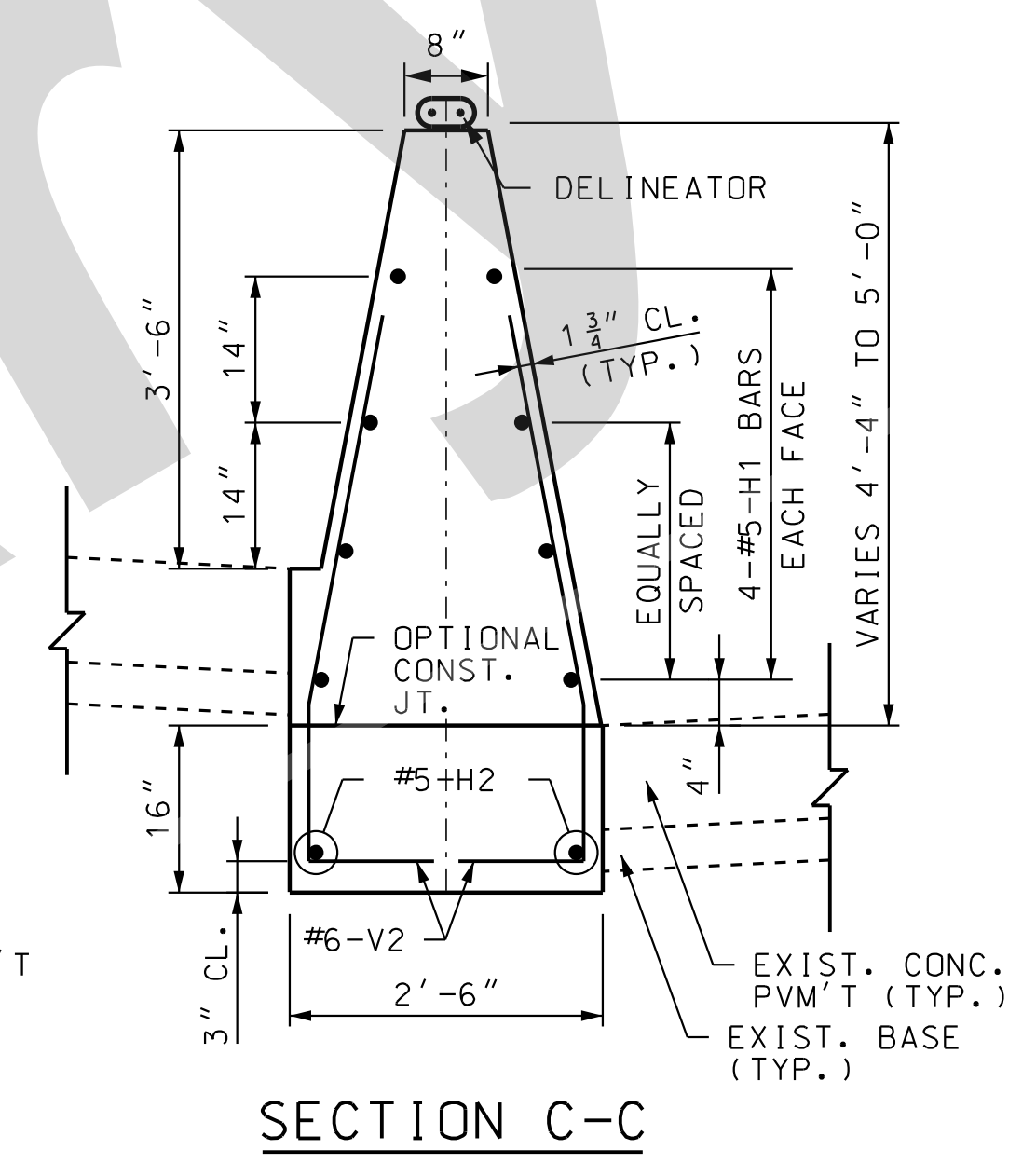
ELEVATION OF BARRIER, TYPE C (MODIFIED)



**V1 BAR (#4) V2 BAR (#6)
REINFORCING DETAILS
BARRIER, TYPE C (MODIFIED)**



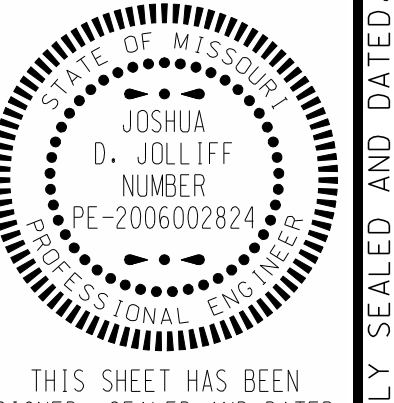
SECTION A-A



SECTION C-C

STA. 255+47.42 TO STA. 255+62.92	STA. 255+62.92 TO STA. 257+34.10
STA. 257+38.10 TO STA. 270+34.60	STA. 273+41.48 TO STA. 273+88.99
STA. 341+49.35 TO STA. 352+10.00	STA. 490+78.88 TO STA. 503+35.82

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DATE PREPARED
05-AUG-2021

ROUTE **I-55** STATE **MO**
DISTRICT **SL** SHEET NO. **66**

COUNTY **ST. LOUIS**
ST. LOUIS CITY
JOB NO. **J613187**
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

NOTES:

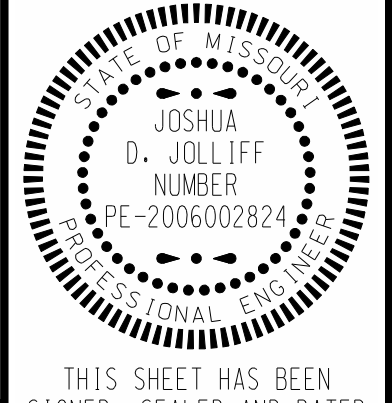
- ALL REINFORCEMENT SHALL BE GRADE 60 EPOXY COATED.
- BAR SPLICES SHALL BE A MINIMUM OF 24 TIMES THE NOMINAL DIAMETER OF THE BAR.
- ANY REINFORCING BAR INSTALLATION METHOD DEvised BY THE CONTRACTOR AND APPROVED BY THE ENGINEER THAT WILL ASSURE THE LONGITUDINAL REINFORCING STEEL WILL BE POSITIONED ±½ INCH AS DIMENSIONED WILL BE SATISFACTORY.
- THE CONTRACTOR HAS THE OPTION TO SLIP-FORM THE BARRIER. IN WHICH CASE, ADDITIONAL REINFORCEMENT MAY BE TIED TO THE UPPER TWO-THIRDS OF THE REINFORCING CAGE TO PROVIDE BRACING.
- SEE STANDARD DRAWING 617.10 FOR SAWED JOINT DETAILS. SAWED JOINTS SHALL BE LOCATED AT PAVEMENT TRANSVERSE JOINTS.
- FOR CONCRETE TRAFFIC BARRIER DELINEATION DETAILS SEE STD PLAN 903.03.
- ALL CONCRETE AND REINFORCING STEEL SHALL CONFORM TO SECTION 617 OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION.
- THIS BARRIER SHALL NOT BE USED TO SUPPORT HIGHWAY LIGHTING POLES.
- COST OF CONCRETE, EXCAVATION, DELINEATORS AND REINFORCING STEEL SHALL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR CONCRETE TRAFFIC BARRIER, TYPE C (MODIFIED).
- THE STATION RANGES LISTED ABOVE ARE BASED ON THE LOCATION OF THE EXISTING MODIFIED CONCRETE MEDIAN BARRIER. THE LOCATION OF THE EXISTING MODIFIED CONCRETE MEDIAN BARRIER HAS BEEN DETERMINED FROM AS-BUILT PLANS, AERIAL SURVEYS AND PHOTOGRAPHS AND IS SUBJECT TO CONSTRUCTION VARIATIONS AND ACTUAL SITE CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATIONS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR AN ADJUSTMENT TO THE UNIT PRICE AS BID. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK AS DIRECTED AND APPROVED BY THE ENGINEER.

SPECIAL SHEET
TRAFFIC BARRIER, TYPE C (MODIFIED)
SHEET 19 OF 23

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

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DATE PREPARED
05-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 67

COUNTY
ST. LOUIS

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

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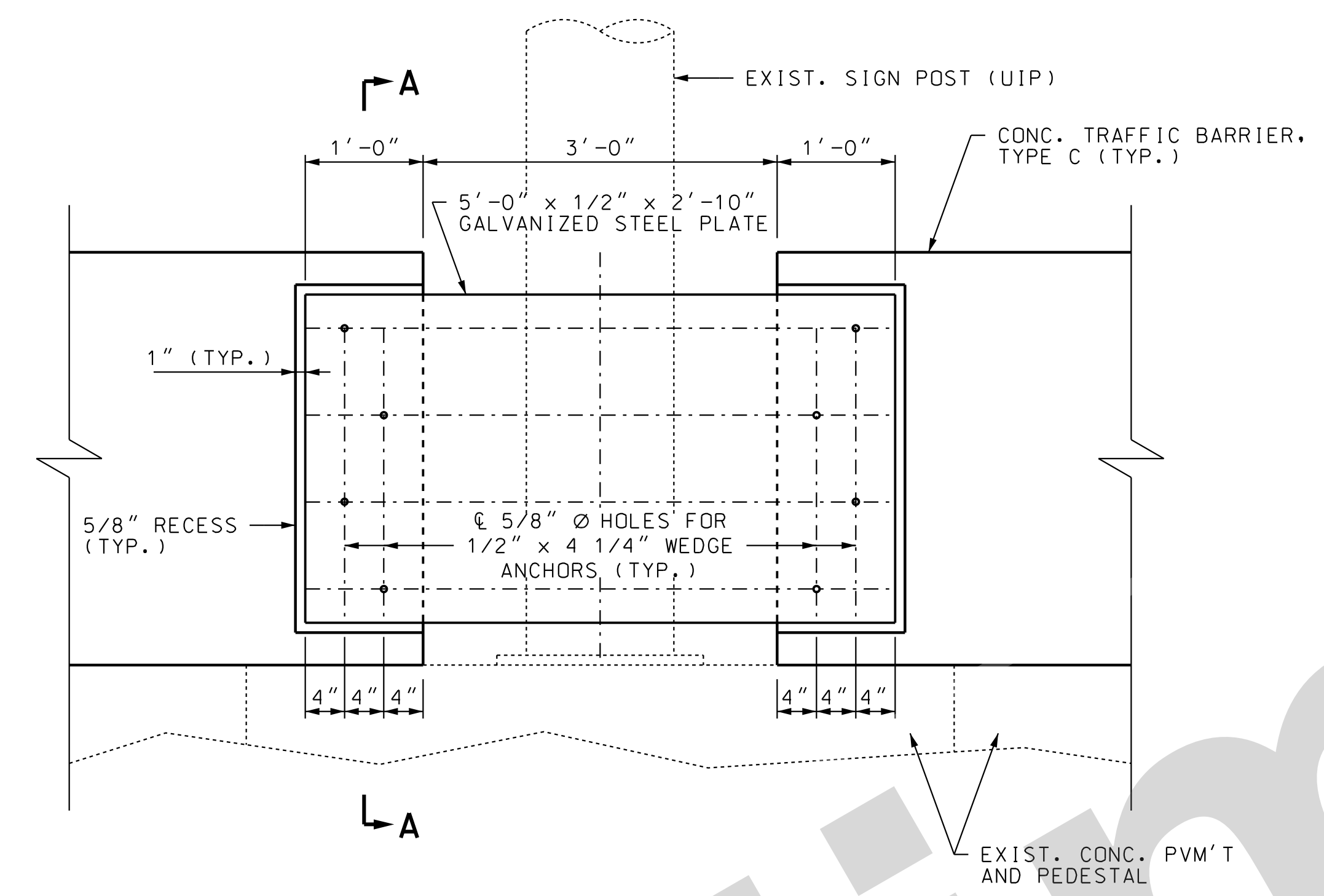
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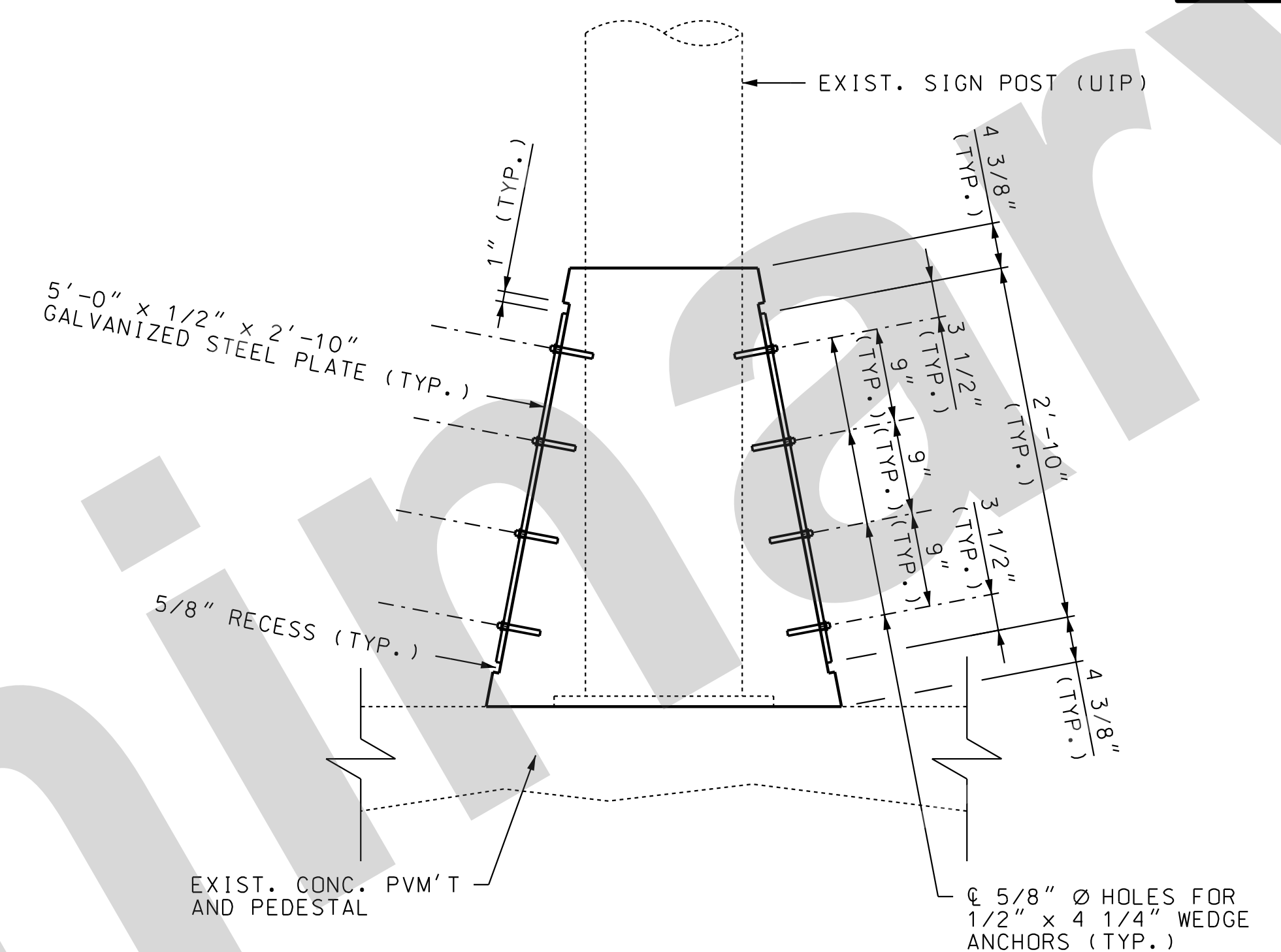
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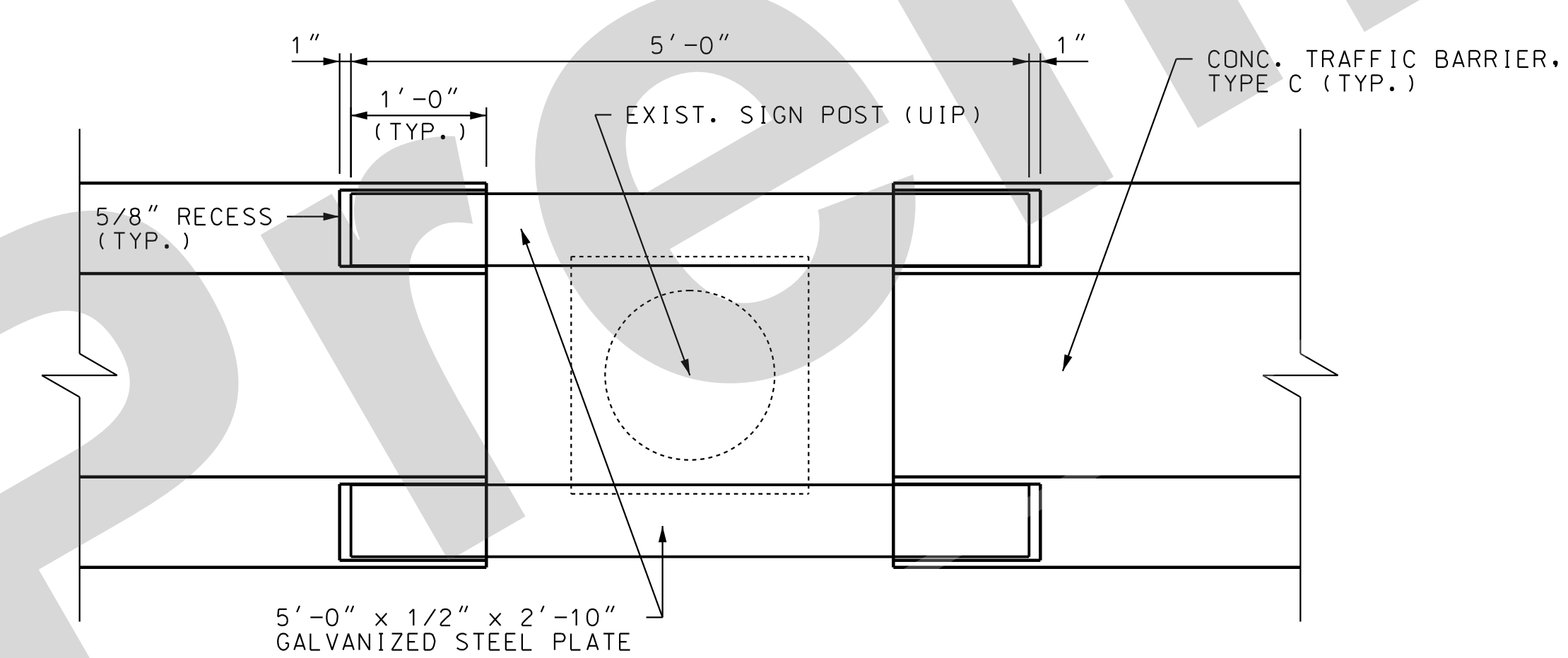
DATE



ELEVATION OF GALVANIZED PLATES AT EXISTING SIGN POST



SECTION A-A

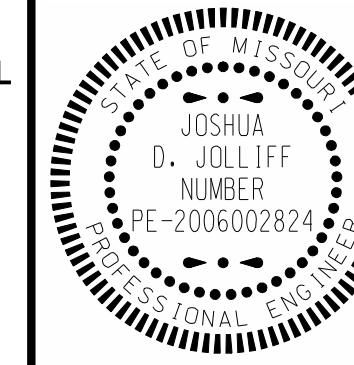


PLAN OF GALVANIZED PLATES AT EXISTING SIGN POST

NOTE:
 CONCRETE TRAFFIC BARRIER IS TO BE WIDENED TO ACCOMMODATE EXISTING SIGN POST. MAXIMUM TRANSITION RATE OF BARRIER SHALL NOT EXCEED 40:1.

NOTES:
 STRUCTURAL STEEL FOR THE BARRIER PLATE SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE 36 AND GALVANIZED IN ACCORDANCE WITH ASTM A123.
 1/2" DIA. WEDGE ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
 PAYMENT FOR FURNISHING, GALVANIZING AND INSTALLING STRUCTURAL STEEL PLATES AND ANCHORS WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR CONCRETE TRAFFIC BARRIER, TYPE C.

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DATE PREPARED
05-AUG-2021

ROUTE STATE
1-55 MO

DISTRICT SHEET NO.
SL 68

COUNTY
ST. LOUIS CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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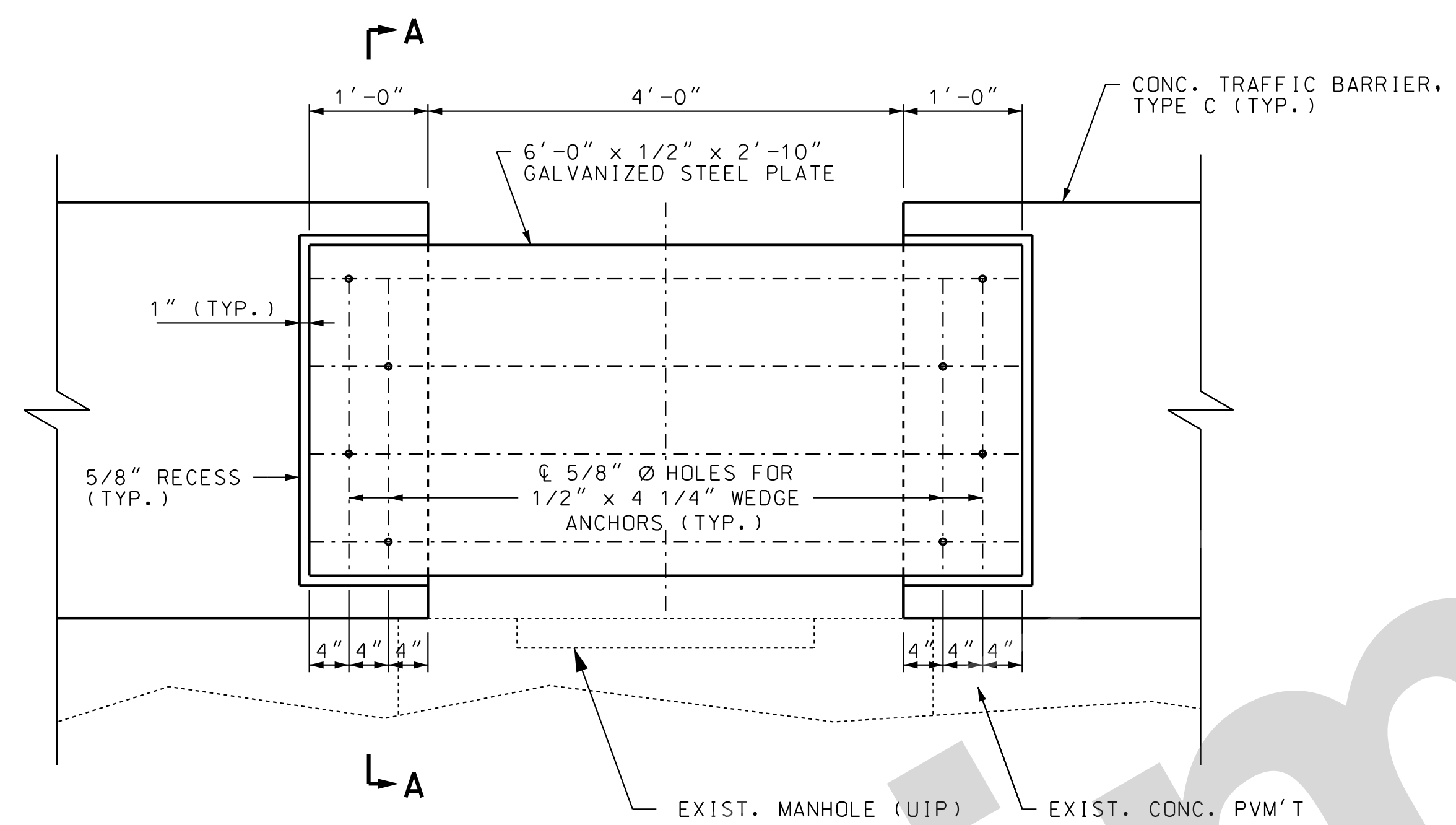
DATE

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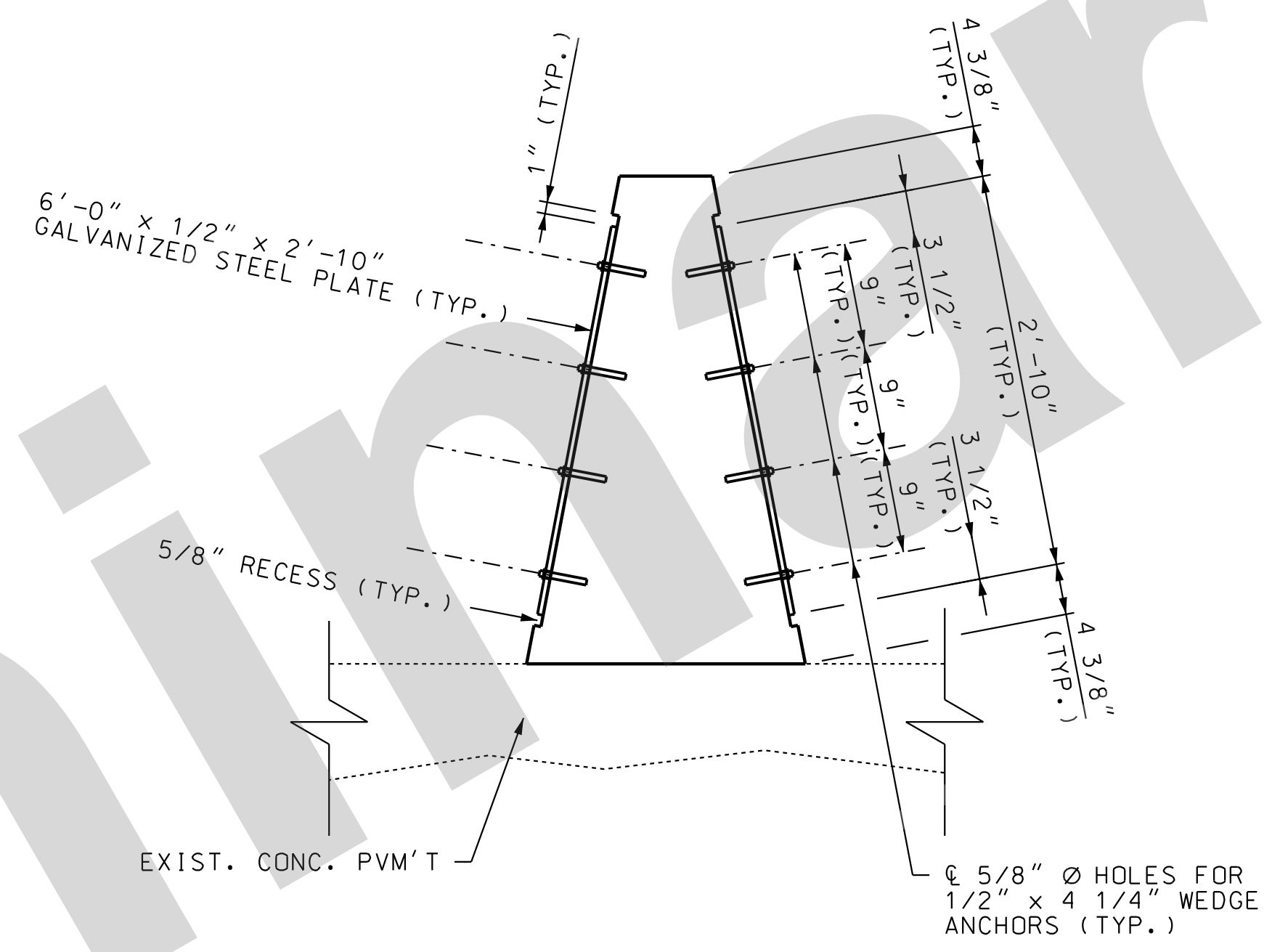
DATE

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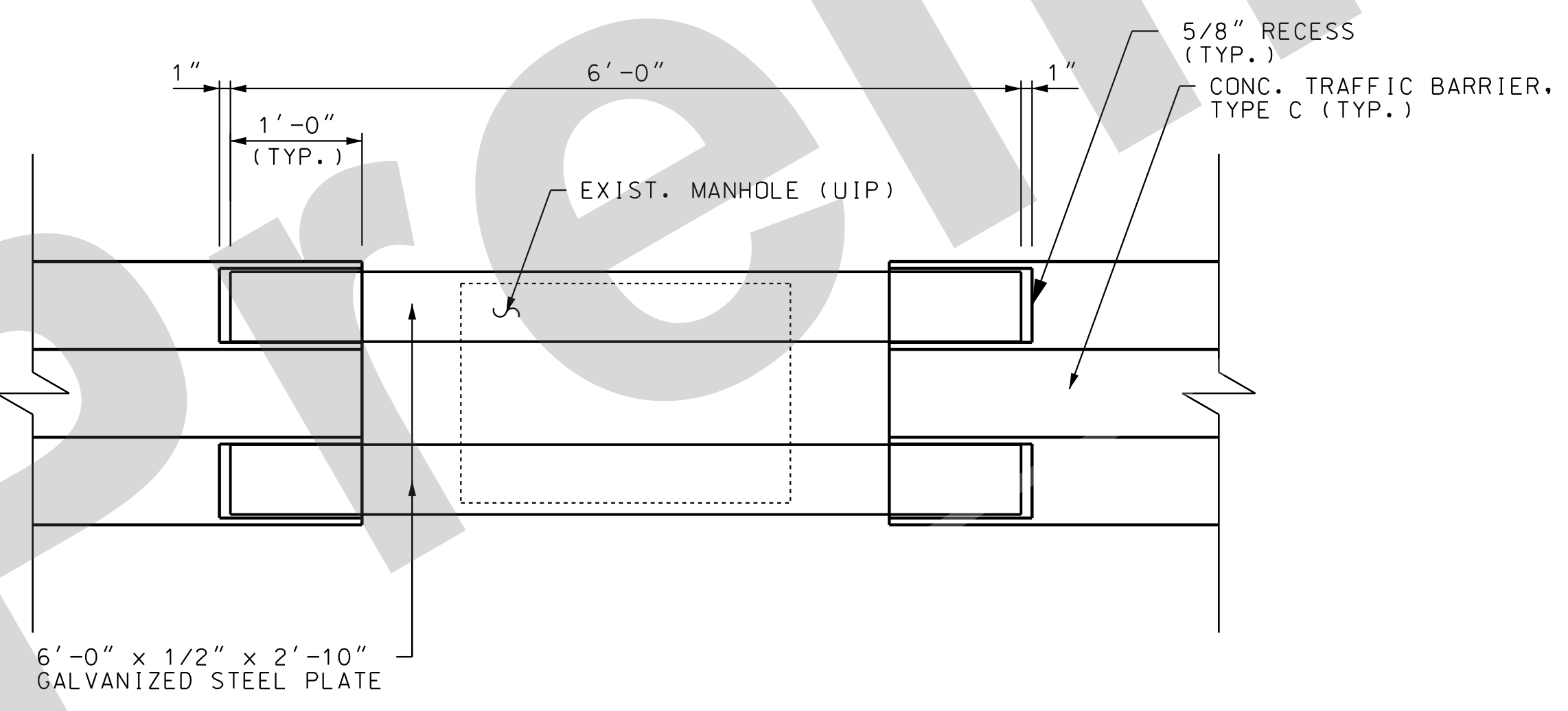
DATE



ELEVATION OF GALVANIZED PLATES AT EXISTING MANHOLE



SECTION A-A

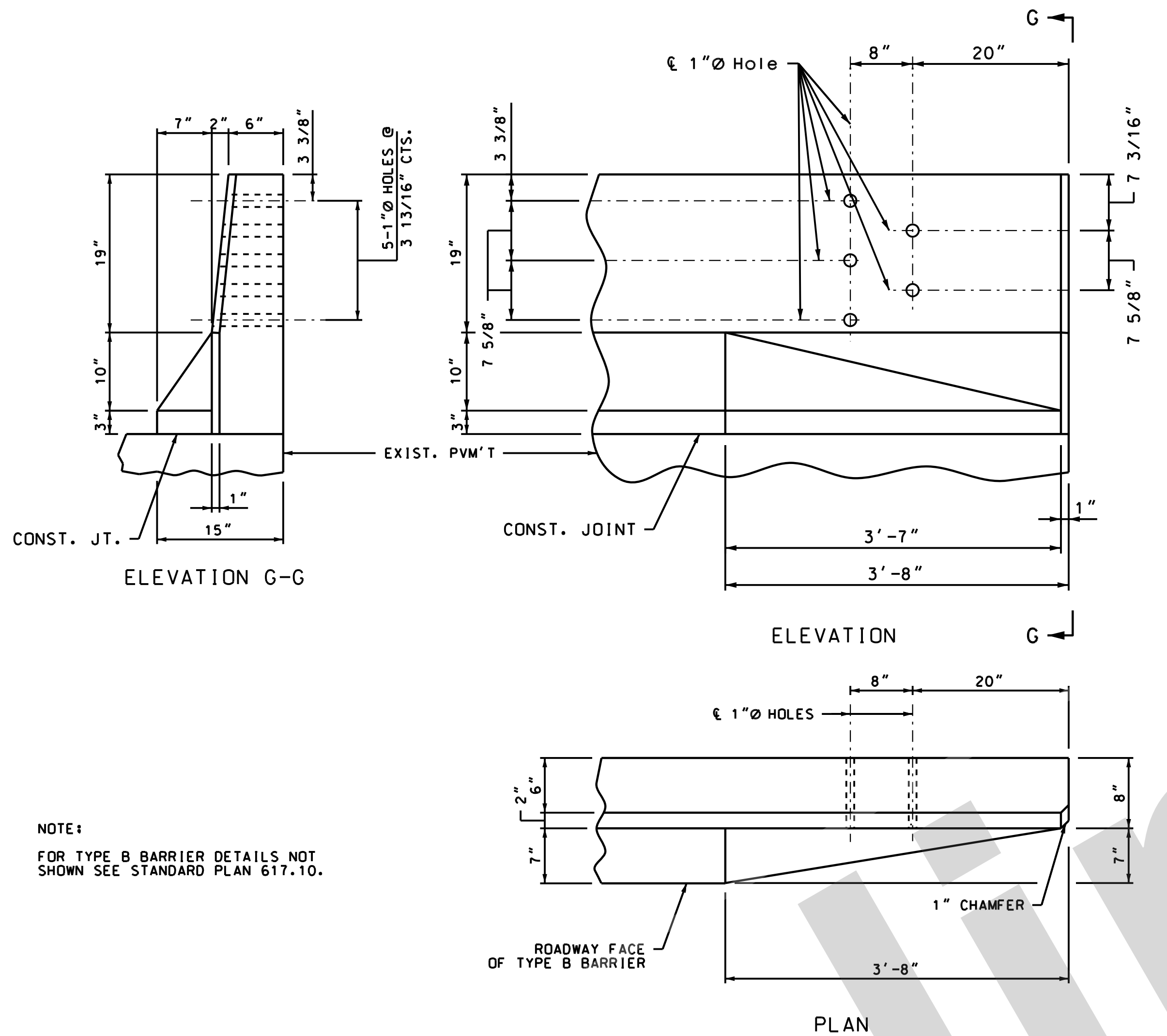


PLAN OF GALVANIZED PLATES AT EXISTING MANHOLE

NOTES:
 STRUCTURAL STEEL FOR THE BARRIER PLATE SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE 36 AND GALVANIZED IN ACCORDANCE WITH ASTM A123.
 1/2" DIA. WEDGE ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
 PAYMENT FOR FURNISHING, GALVANIZING AND INSTALLING STRUCTURAL STEEL PLATES AND ANCHORS WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR CONCRETE TRAFFIC BARRIER, TYPE C.

SPECIAL SHEET
 GALVANIZED PLATES AT STA. 475+44.16
 SHEET 21 OF 23

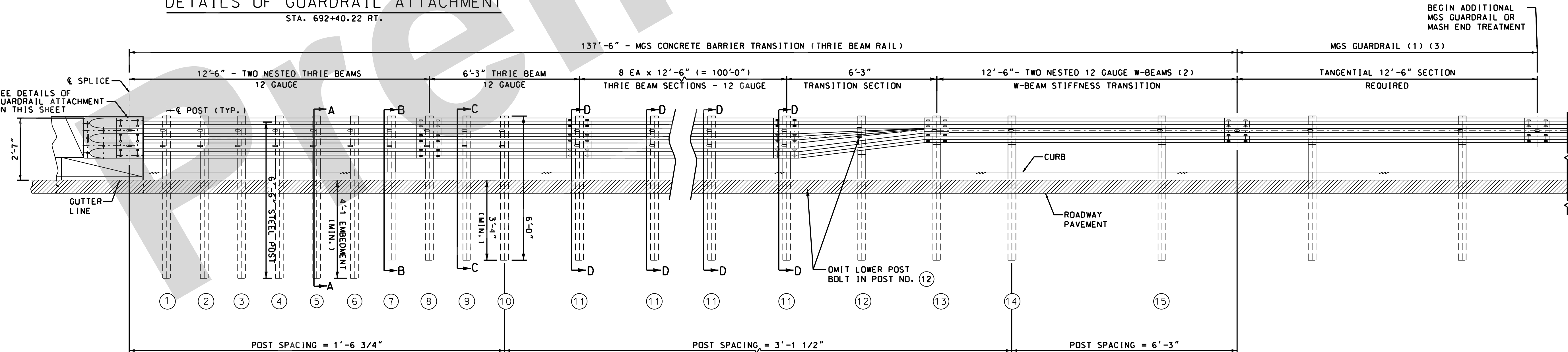
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 ENGINEERING CORPORATION - 000631
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NOTE:
FOR TYPE B BARRIER DETAILS NOT SHOWN SEE STANDARD PLAN 617.10.

DETAILS OF GUARDRAIL ATTACHMENT

STA. 692+40.22 RT.



SEE STANDARD PLAN 606.60B FOR ADDITIONAL INFORMATION.

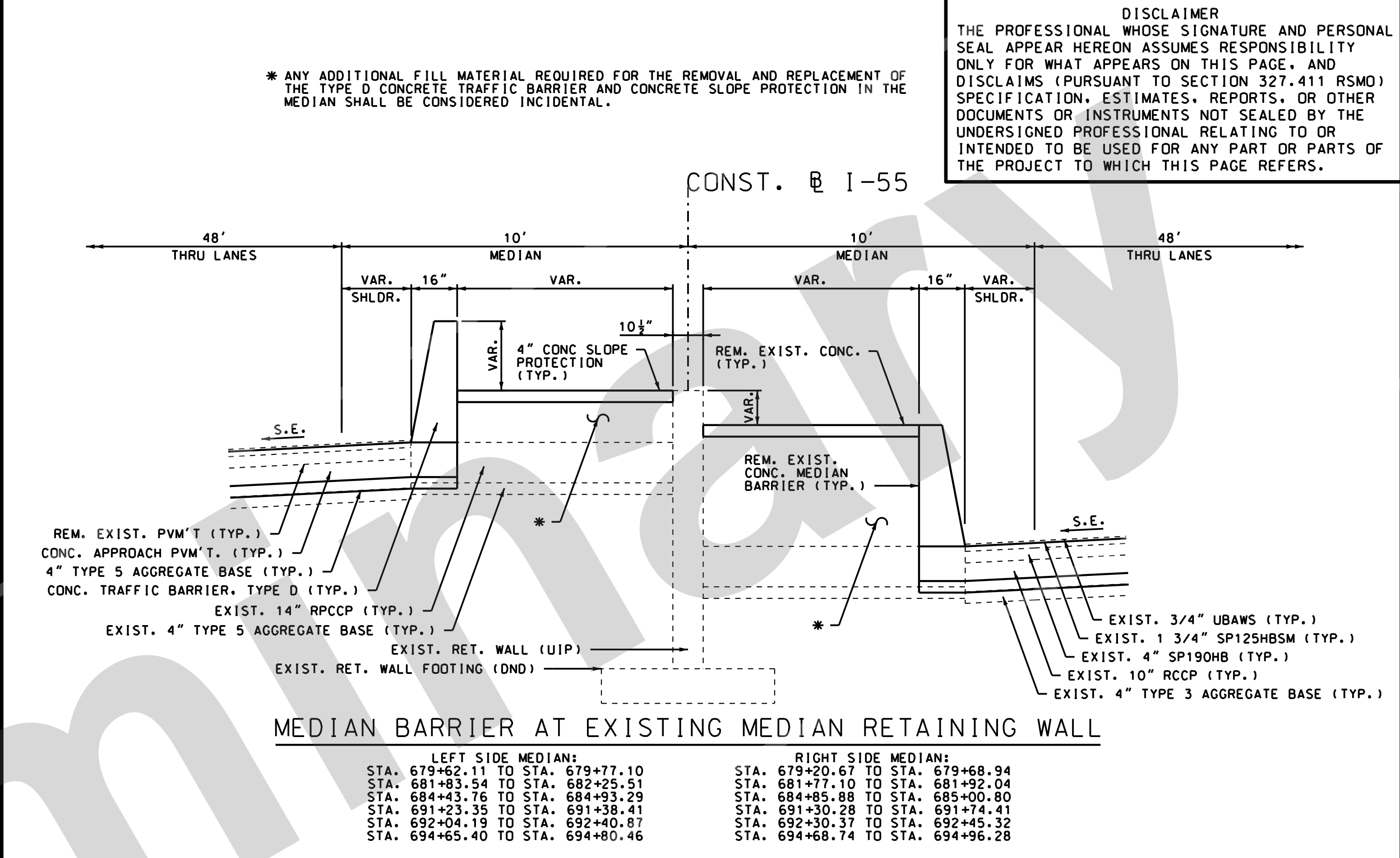
CONCRETE BARRIER TRANSITION (THRIE BEAM RAIL)

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DATE PREPARED
05-AUG-2021
ROUTE **I-55** STATE **MO**
DISTRICT **SL** SHEET NO. **69**
COUNTY
ST. LOUIS CITY
JOB NO.
J613149
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION



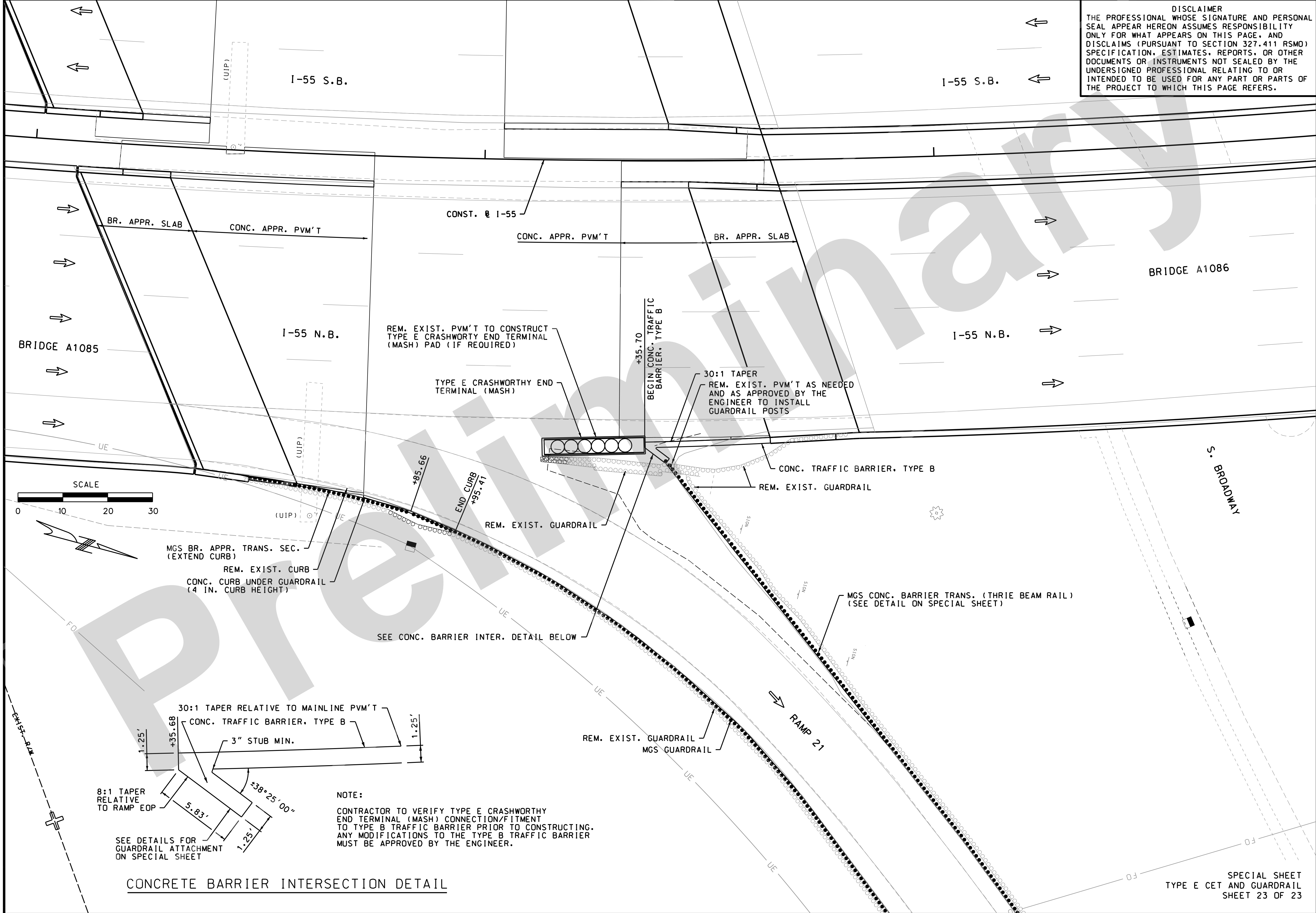
MEDIAN BARRIER AT EXISTING MEDIAN RETAINING WALL

LEFT SIDE MEDIAN:	RIGHT SIDE MEDIAN:
STA. 679+62.11 TO STA. 679+77.10	STA. 679+20.67 TO STA. 679+68.94
STA. 681+83.54 TO STA. 682+25.51	STA. 681+77.10 TO STA. 681+92.04
STA. 684+43.76 TO STA. 684+93.29	STA. 684+85.88 TO STA. 685+00.80
STA. 691+23.35 TO STA. 691+38.41	STA. 691+30.28 TO STA. 691+74.41
STA. 692+04.19 TO STA. 692+40.87	STA. 692+30.37 TO STA. 692+45.32
STA. 694+65.40 TO STA. 694+80.46	STA. 694+68.74 TO STA. 694+96.28

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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JEFFERSON CITY, MO 65102
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SPECIAL SHEET
MEDIAN BARRIER AND MGS CONC. BARRIER TRANS.
SHEET 22 OF 23



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STATE OF MISSOURI
JACK W. BLAKEMORE
 NUMBER
 E-2000155321
 PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 05-AUG-2021

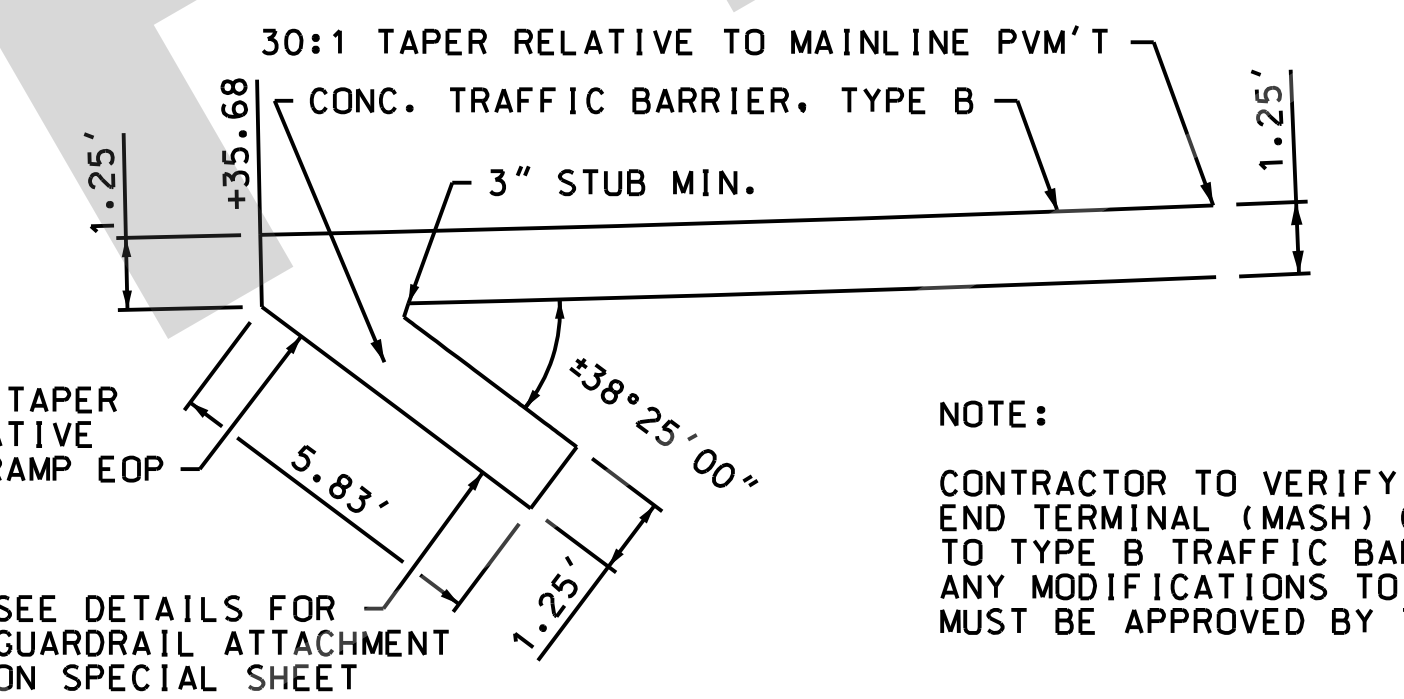
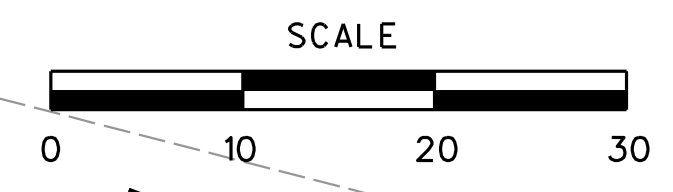
ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	70
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 ENGINEERING CORPORATION - 000631



NOTE:
 CONTRACTOR TO VERIFY TYPE E CRASHWORTHY END TERMINAL (MASH) CONNECTION/FITMENT TO TYPE B TRAFFIC BARRIER PRIOR TO CONSTRUCTING. ANY MODIFICATIONS TO THE TYPE B TRAFFIC BARRIER MUST BE APPROVED BY THE ENGINEER.

CONCRETE BARRIER INTERSECTION DETAIL

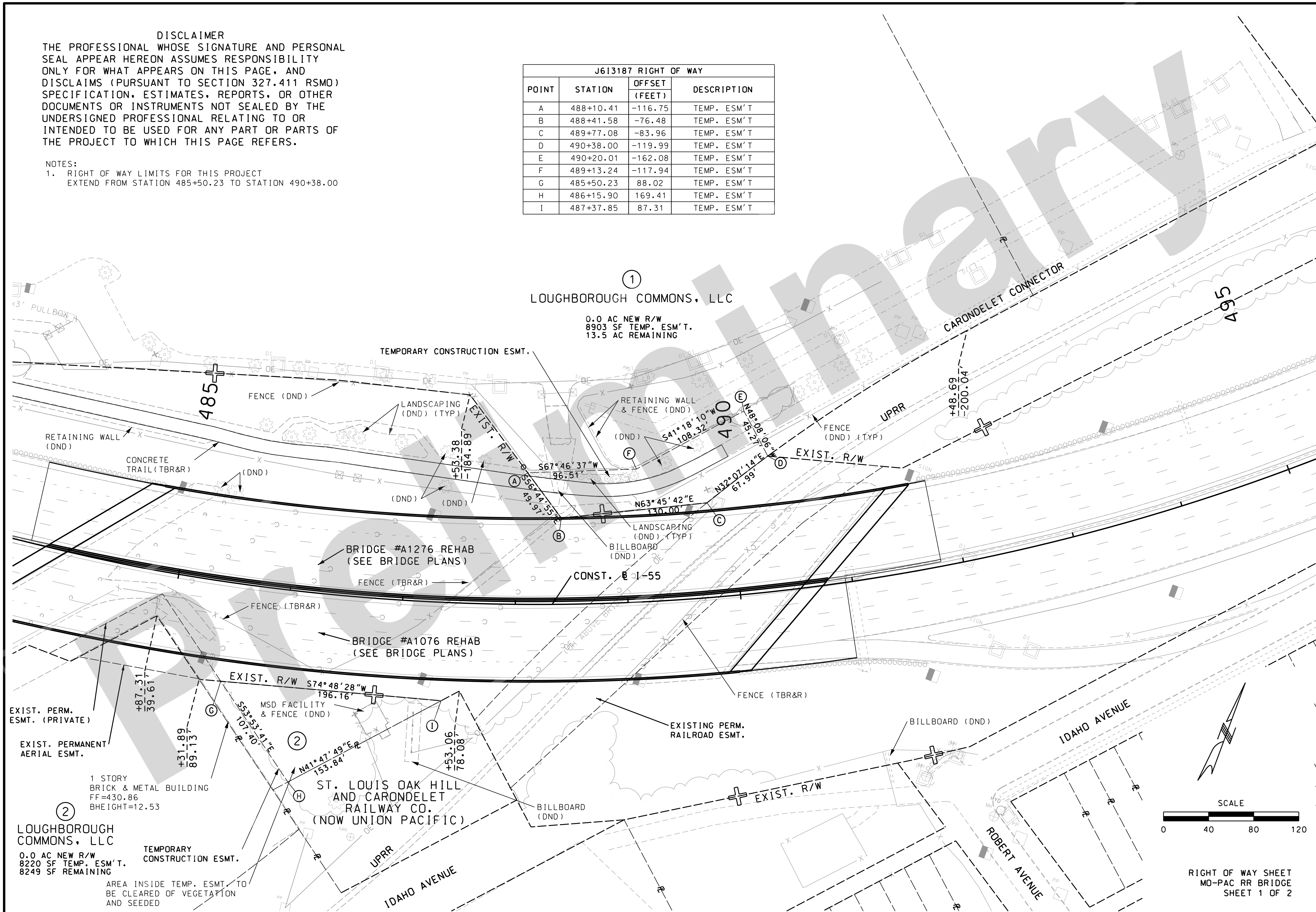
SPECIAL SHEET
 TYPE E CET AND GUARDRAIL
 SHEET 23 OF 23

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NOTES:
 1. RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 485+50.23 TO STATION 490+38.00

J613187 RIGHT OF WAY			
POINT	STATION	OFFSET (FEET)	DESCRIPTION
A	488+10.41	-116.75	TEMP. ESM'T
B	488+41.58	-76.48	TEMP. ESM'T
C	489+77.08	-83.96	TEMP. ESM'T
D	490+38.00	-119.99	TEMP. ESM'T
E	490+20.01	-162.08	TEMP. ESM'T
F	489+13.24	-117.94	TEMP. ESM'T
G	485+50.23	88.02	TEMP. ESM'T
H	486+15.90	169.41	TEMP. ESM'T
I	487+37.85	87.31	TEMP. ESM'T

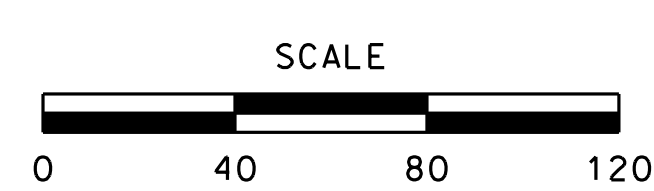
①
LOUGHBOROUGH COMMONS, LLC
 O.O AC NEW R/W
 8903 SF TEMP. ESM'T.
 13.5 AC REMAINING



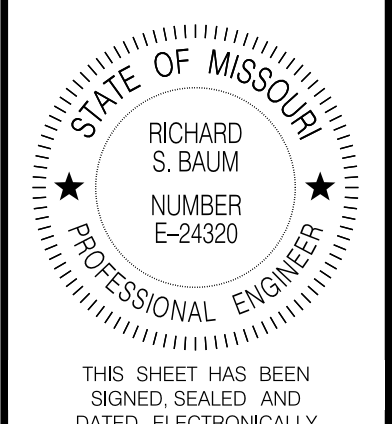
②
LOUGHBOROUGH COMMONS, LLC
 O.O AC NEW R/W
 8220 SF TEMP. ESM'T.
 8249 SF REMAINING

1 STORY BRICK & METAL BUILDING
 FF=430.86
 BHEIGHT=12.53

AREA INSIDE TEMP. ESM'T TO BE CLEARED OF VEGETATION AND SEEDED



RIGHT OF WAY SHEET
 MO-PAC RR BRIDGE
 SHEET 1 OF 2



DATE PREPARED
05-AUG-2021

ROUTE **I-55** STATE **MO**

DISTRICT **SL** SHEET NO. **70A**

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

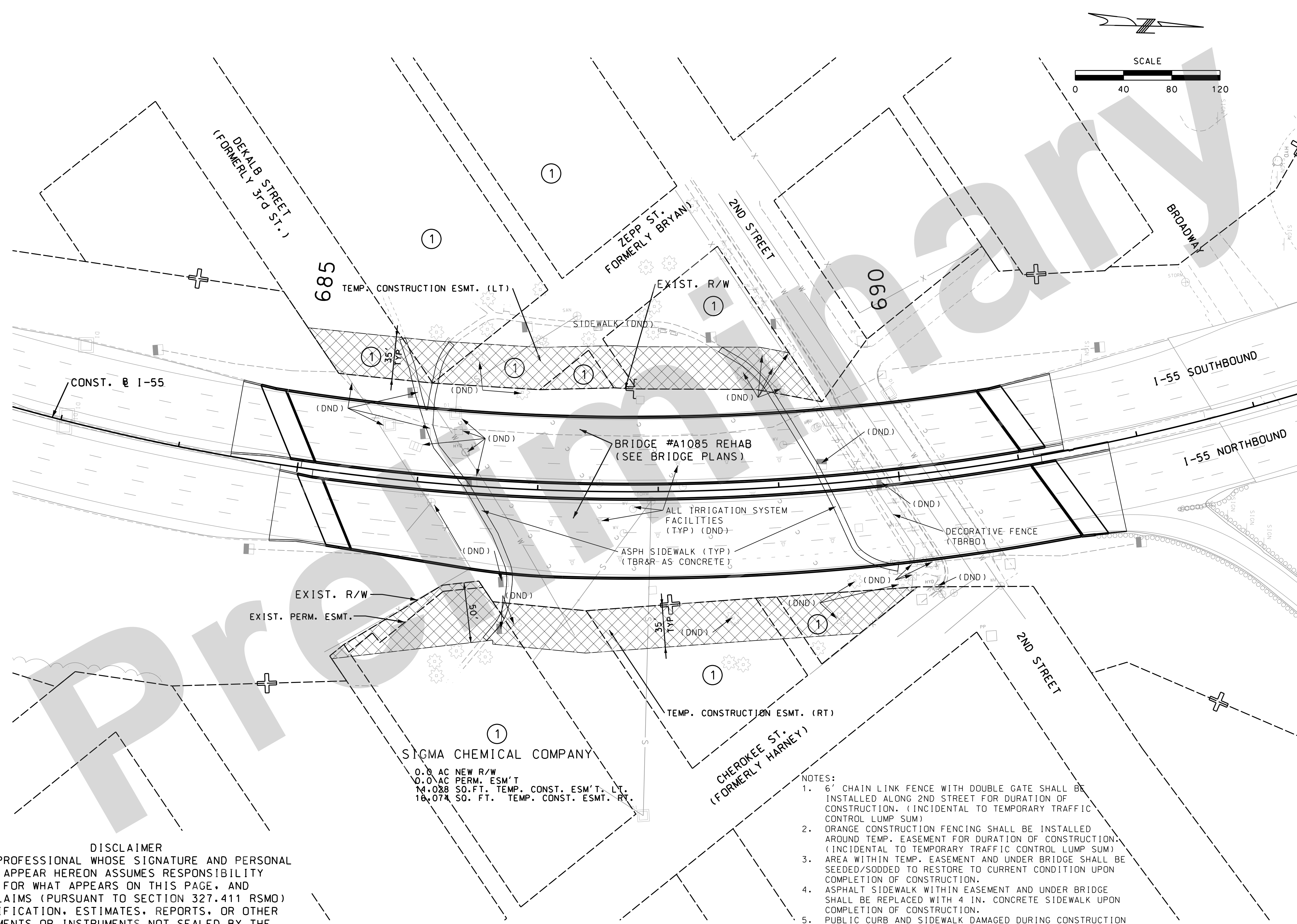
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER
 THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT SL SHEET NO. 70B
 COUNTY ST. LOUIS CITY
 JOB NO. J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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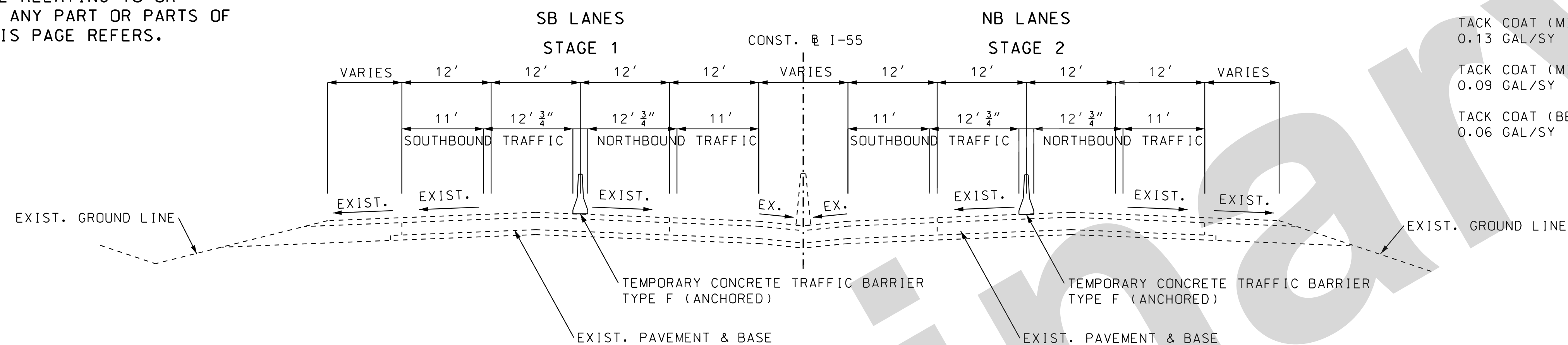
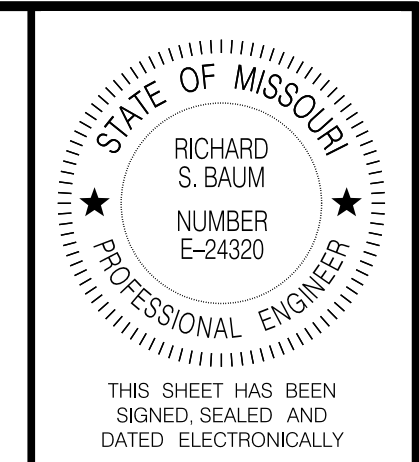
- NOTES:
- 6' CHAIN LINK FENCE WITH DOUBLE GATE SHALL BE INSTALLED ALONG 2ND STREET FOR DURATION OF CONSTRUCTION. (INCIDENTAL TO TEMPORARY TRAFFIC CONTROL LUMP SUM)
 - ORANGE CONSTRUCTION FENCING SHALL BE INSTALLED AROUND TEMP. EASEMENT FOR DURATION OF CONSTRUCTION. (INCIDENTAL TO TEMPORARY TRAFFIC CONTROL LUMP SUM)
 - AREA WITHIN TEMP. EASEMENT AND UNDER BRIDGE SHALL BE SEEDED/SODDED TO RESTORE TO CURRENT CONDITION UPON COMPLETION OF CONSTRUCTION.
 - ASPHALT SIDEWALK WITHIN EASEMENT AND UNDER BRIDGE SHALL BE REPLACED WITH 4 IN. CONCRETE SIDEWALK UPON COMPLETION OF CONSTRUCTION.
 - PUBLIC CURB AND SIDEWALK DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN-KIND.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO ANY PORTION OF THE IRRIGATION SYSTEM.

RIGHT OF WAY SHEET
 SIGMA CHEMICAL CO.
 SHEET 2 OF 2

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

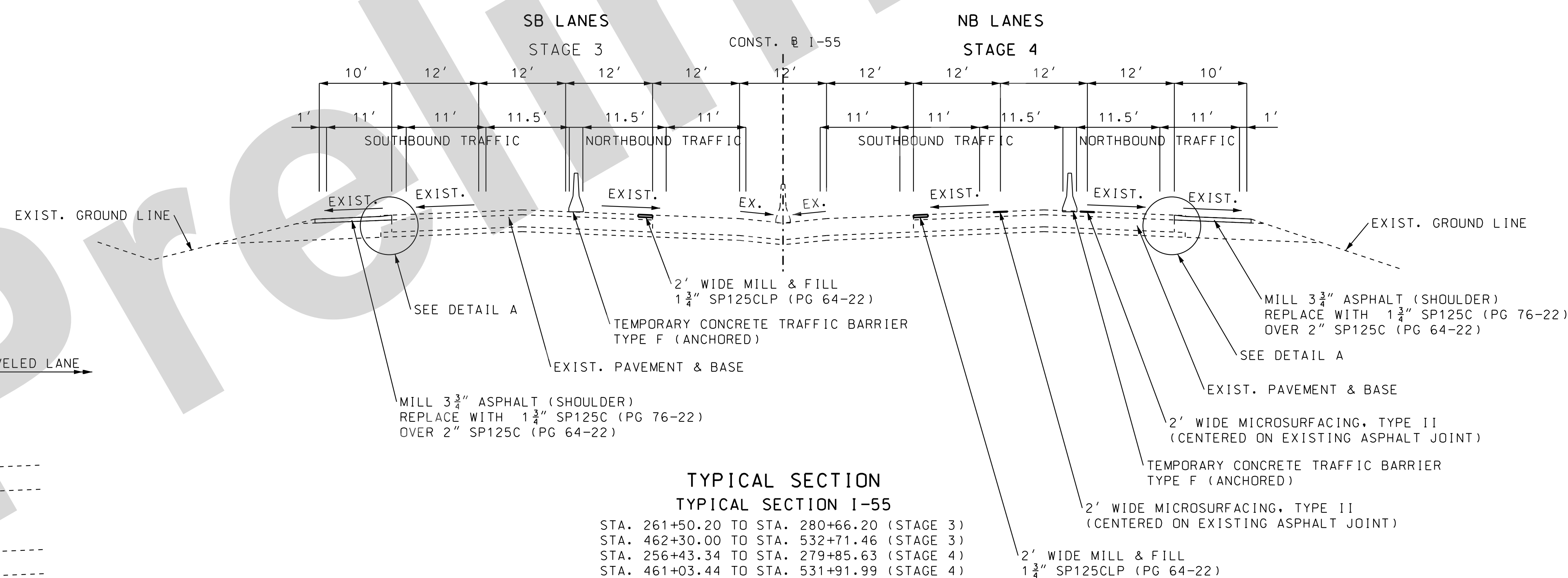
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APPLICATION RATES:
ASPHALT CONCRETE MIXTURE, PG 64-22, (SP125C) 1.96 TONS/CY COMPACTED
ASPHALT CONCRETE MIXTURE, PG 76-22, (SP125C) 1.96 TONS/CY COMPACTED
ASPHALT CONCRETE MIXTURE, PG 64-22, (SP125CLP) 1.94 TONS/CY COMPACTED
TACK COAT (MILLED) 0.13 GAL/SY
TACK COAT (MICROSURFACING) 0.09 GAL/SY
TACK COAT (BETWEEN LIFTS) 0.06 GAL/SY



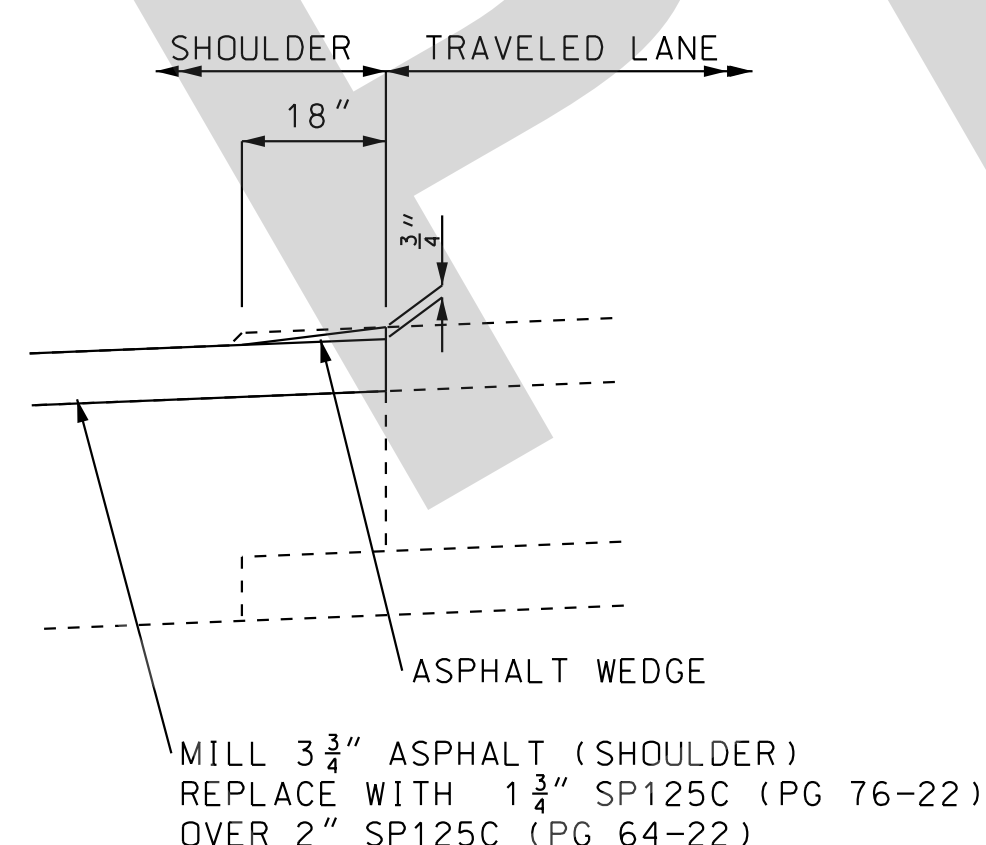
TYPICAL SECTION
TYPICAL SECTION I-55

STA. 669+06.67 TO STA. 721+10.00 (STAGE 1)
STA. 669+40.13 TO STA. 721+10.00 (STAGE 2)



TYPICAL SECTION
TYPICAL SECTION I-55

STA. 261+50.20 TO STA. 280+66.20 (STAGE 3)
STA. 462+30.00 TO STA. 532+71.46 (STAGE 3)
STA. 256+43.34 TO STA. 279+85.63 (STAGE 4)
STA. 461+03.44 TO STA. 531+91.99 (STAGE 4)



DETAIL A

NOTE:
RUMBLE STRIPS SHALL BE INSTALLED ON OUTSIDE SHOULDERS AFTER TRAFFIC HAS BEEN REMOVED FROM SHOULDER.

TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 1 OF 17

DATE PREPARED 18-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 71

COUNTY
STL COUNTY/CITY
JOB NO.
J613187/J613149
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

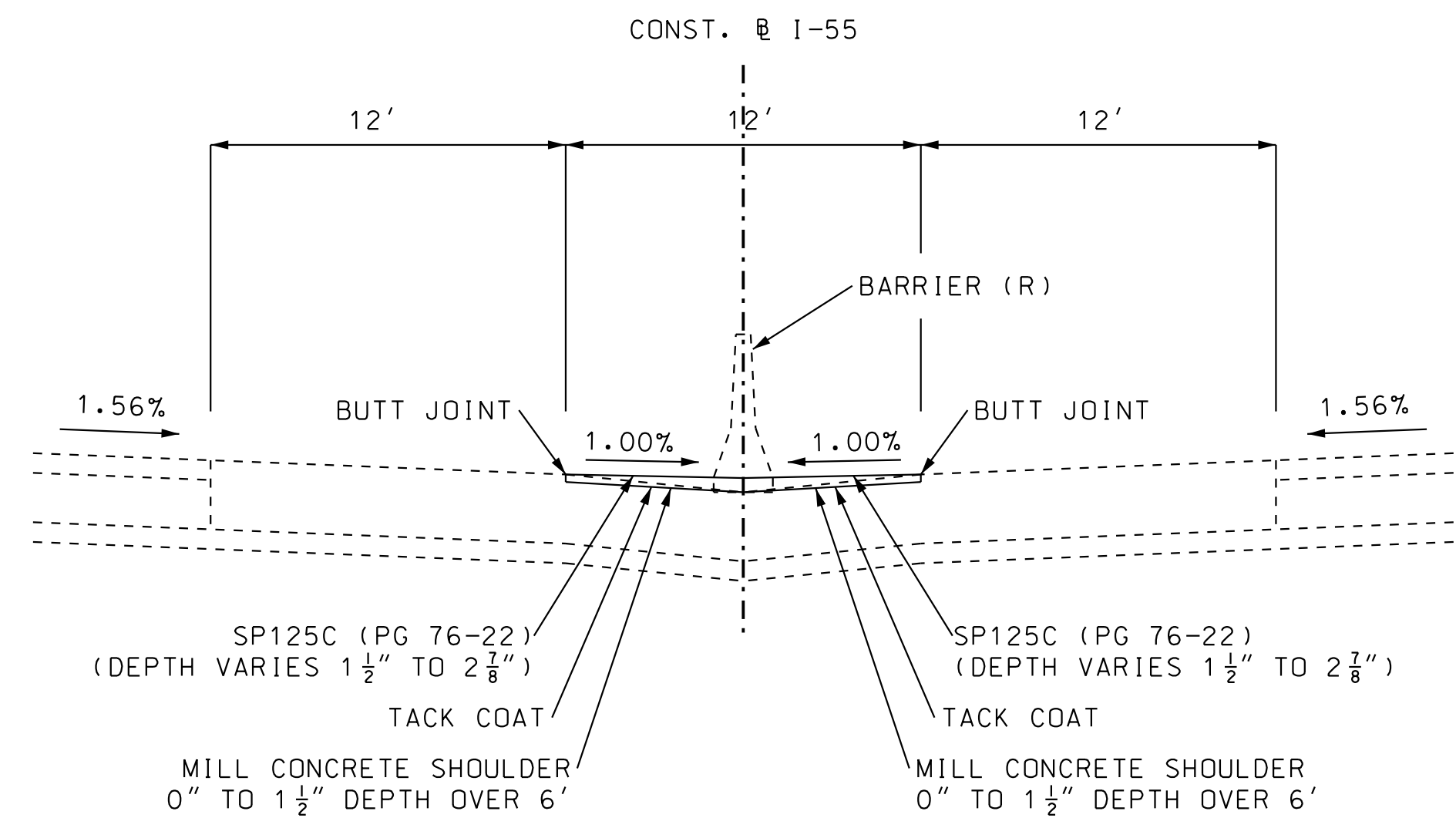
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

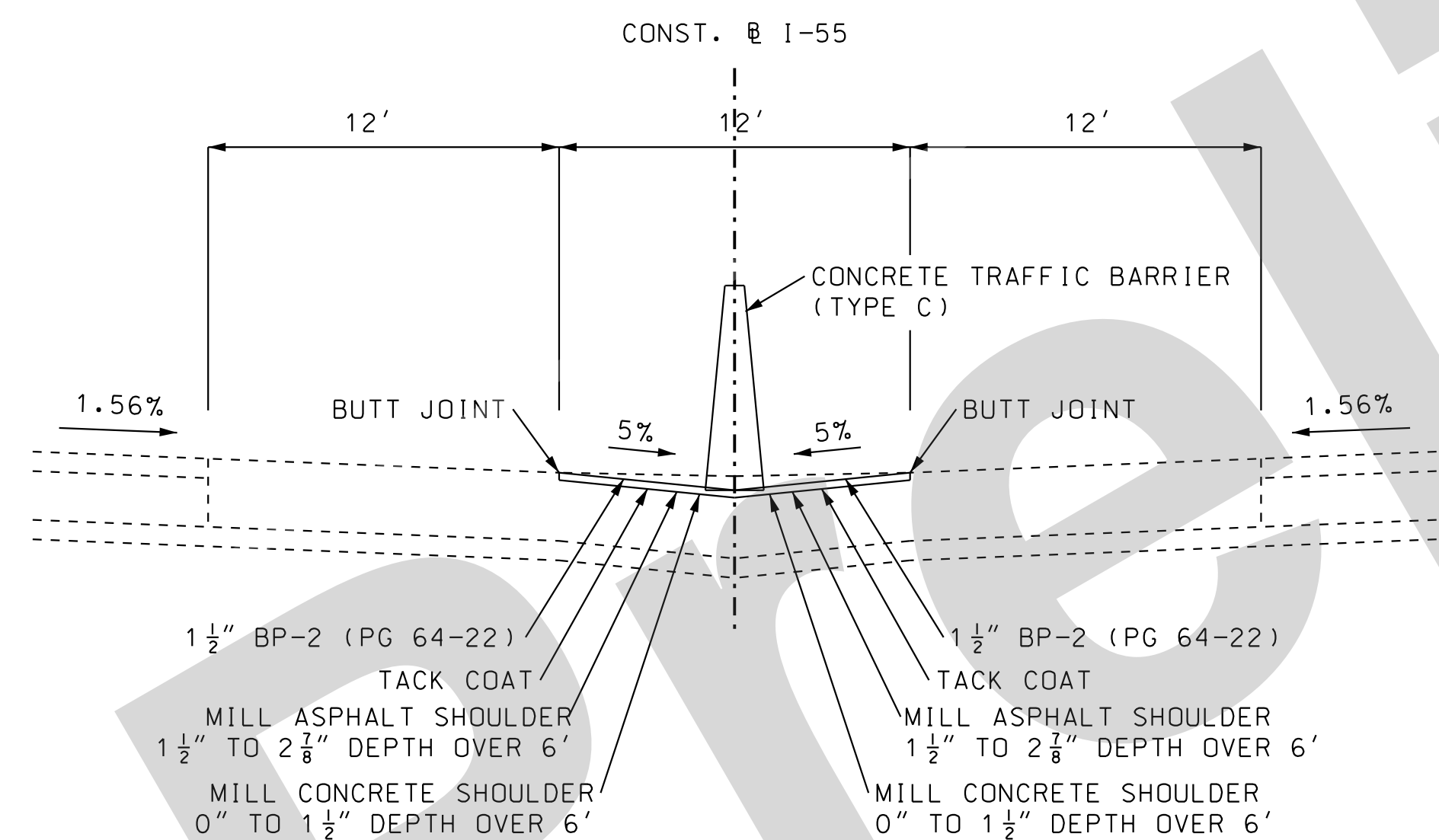
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



**INSIDE CONCRETE SHOULDER DETAIL
TEMPORARY WEDGING AT TEMPORARY CROSSOVERS**

STA. 280+00.00 TO STA. 285+00.00
 STA. 457+00.00 TO STA. 462+30.00
 STA. 532+00.00 TO STA. 537+00.00



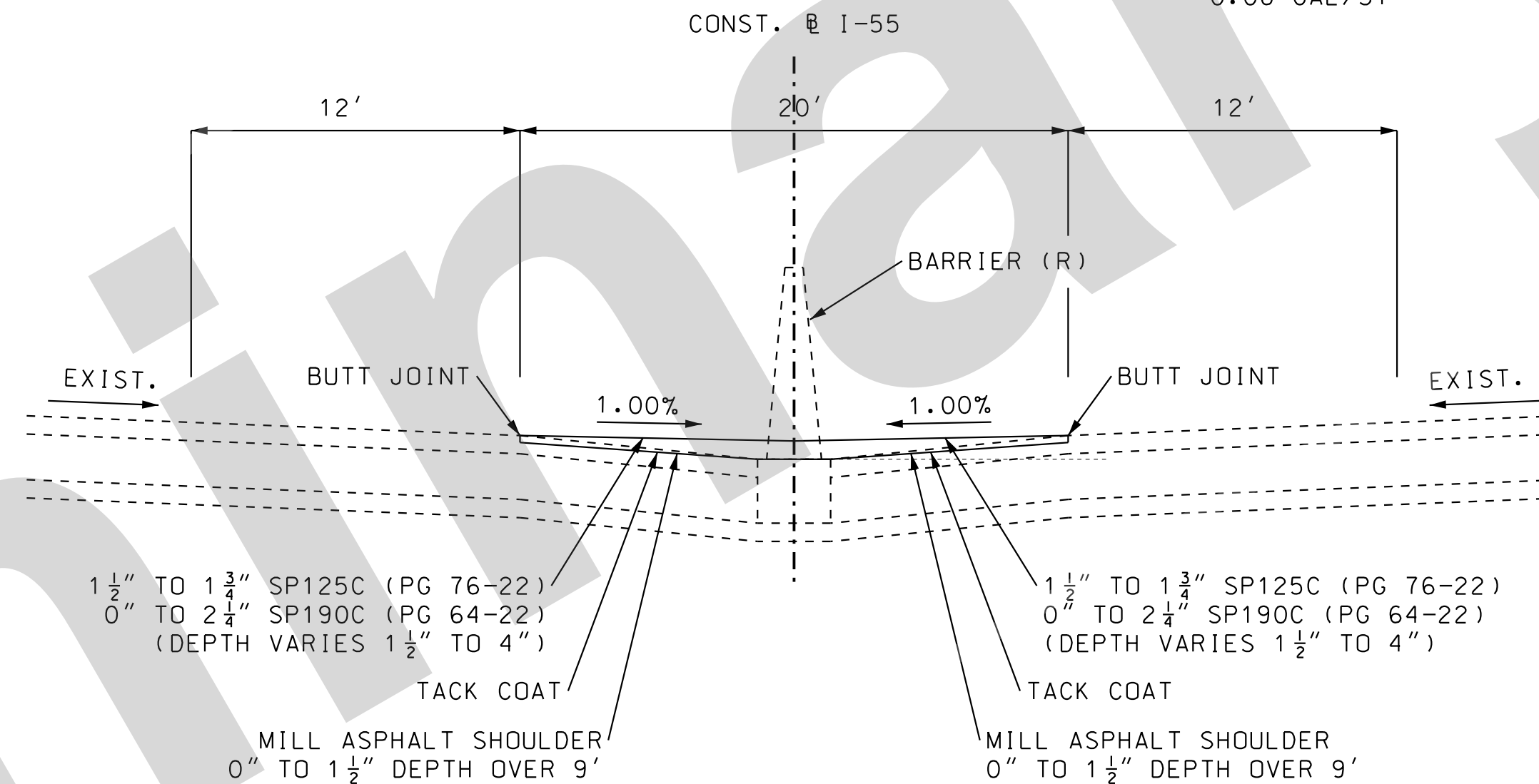
**INSIDE CONCRETE SHOULDER DETAIL
FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL**

STA. 280+00.00 TO STA. 285+00.00
 STA. 457+00.00 TO STA. 462+30.00
 STA. 532+00.00 TO STA. 537+00.00

DISCLAIMER

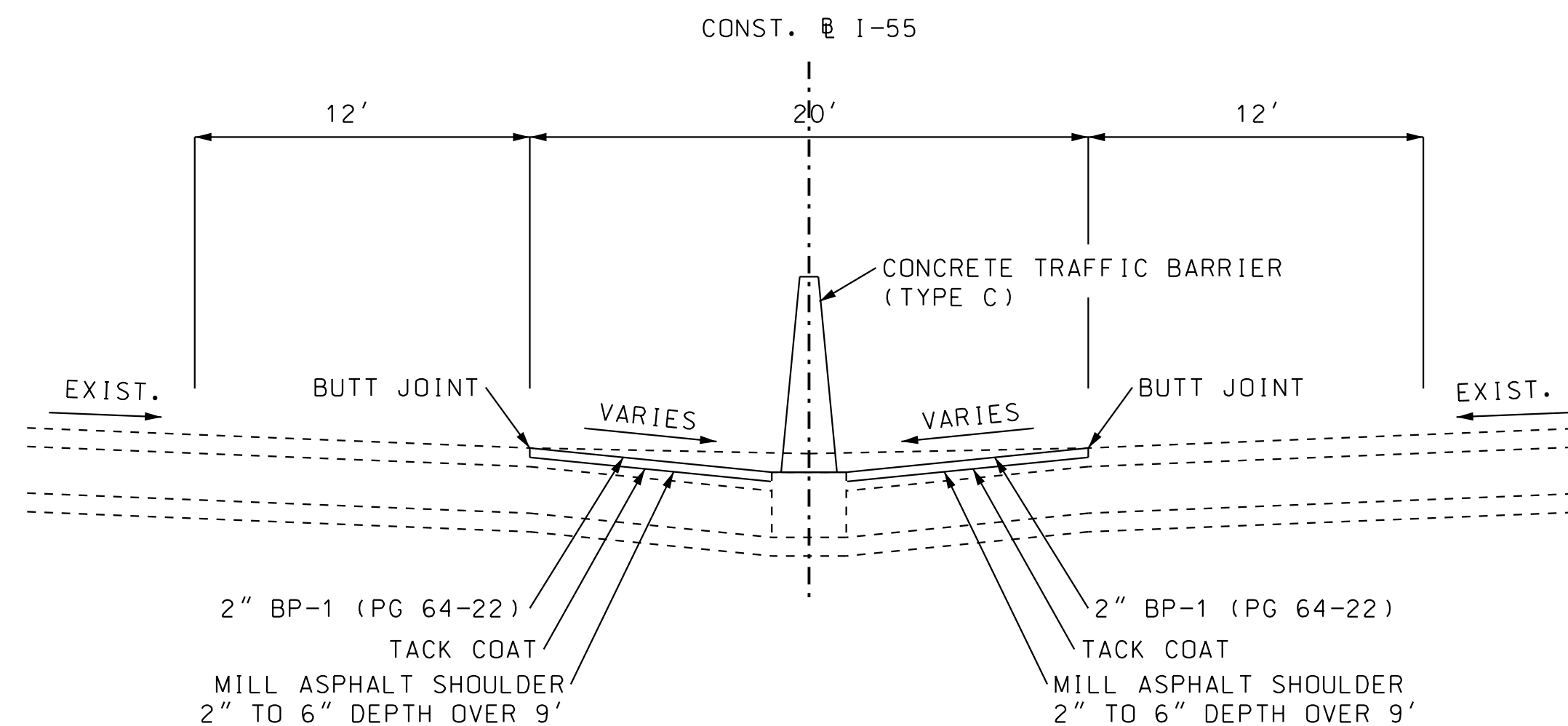
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- APPLICATION RATES:**
- BITUMINOUS PAVEMENT MIXTURE, PG 76-22, (BP-1)
1.96 TONS/CY COMPACTED
 - BITUMINOUS PAVEMENT MIXTURE, PG 64-22, (BP-2)
1.96 TONS/CY COMPACTED
 - ASPHALT PAVEMENT MIXTURE, PG 76-22, (SP125C MIX)
1.96 TONS/CY COMPACTED
 - ASPHALT CONCRETE MIXTURE, PG 64-22, (SP190C MIX)
1.96 TONS/CY COMPACTED
 - TACK COAT (MILLED)
0.13 GAL/SY
 - TACK COAT (BETWEEN LIFTS)
0.06 GAL/SY



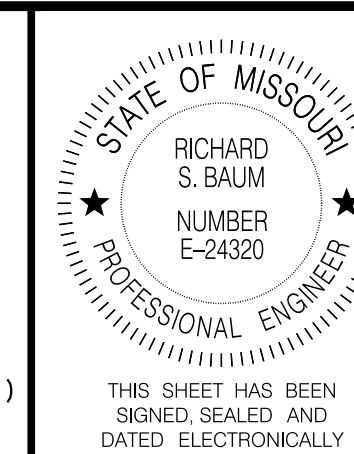
**INSIDE ASPHALT SHOULDER DETAIL
TEMPORARY WEDGING AT TEMPORARY CROSSOVERS**

STA. 664+35.00 TO STA. 669+40.00
 STA. 721+10.00 TO STA. 726+00.00



**INSIDE ASPHALT SHOULDER DETAIL
FINAL RESURFACING AFTER TEMPORARY CROSSOVER REMOVAL**

STA. 664+35.00 TO STA. 669+40.00
 STA. 721+10.00 TO STA. 726+00.00



DATE PREPARED
18-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 72

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

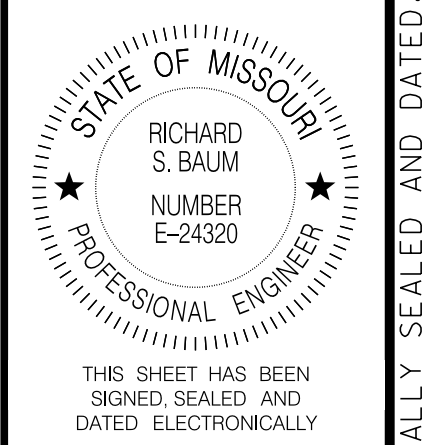
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 2 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED. REV.

NOTE:
 A FABRIC BOND BREAKER SHALL BE PLACED ON TOP OF THE EXISTING SOUTHBOUND LANES PRIOR TO THE PAVEMENT LAYER. THE COST OF THE FABRIC BOND BREAKER SHALL BE CONSIDERED INCIDENTAL.

APPLICATION RATES:
 ASPHALT CONCRETE MIXTURE, PG 76-22, (SP125C MIX)
 1.96 TONS/CY COMPACTED
 ASPHALT CONCRETE MIXTURE, PG 64-22, (SP250C MIX)
 2.02 TONS/CY COMPACTED
 TACK COAT (BETWEEN LIFTS)
 0.06 GAL/SY
 PRIME COAT
 0.45 GAL/SY



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 73

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

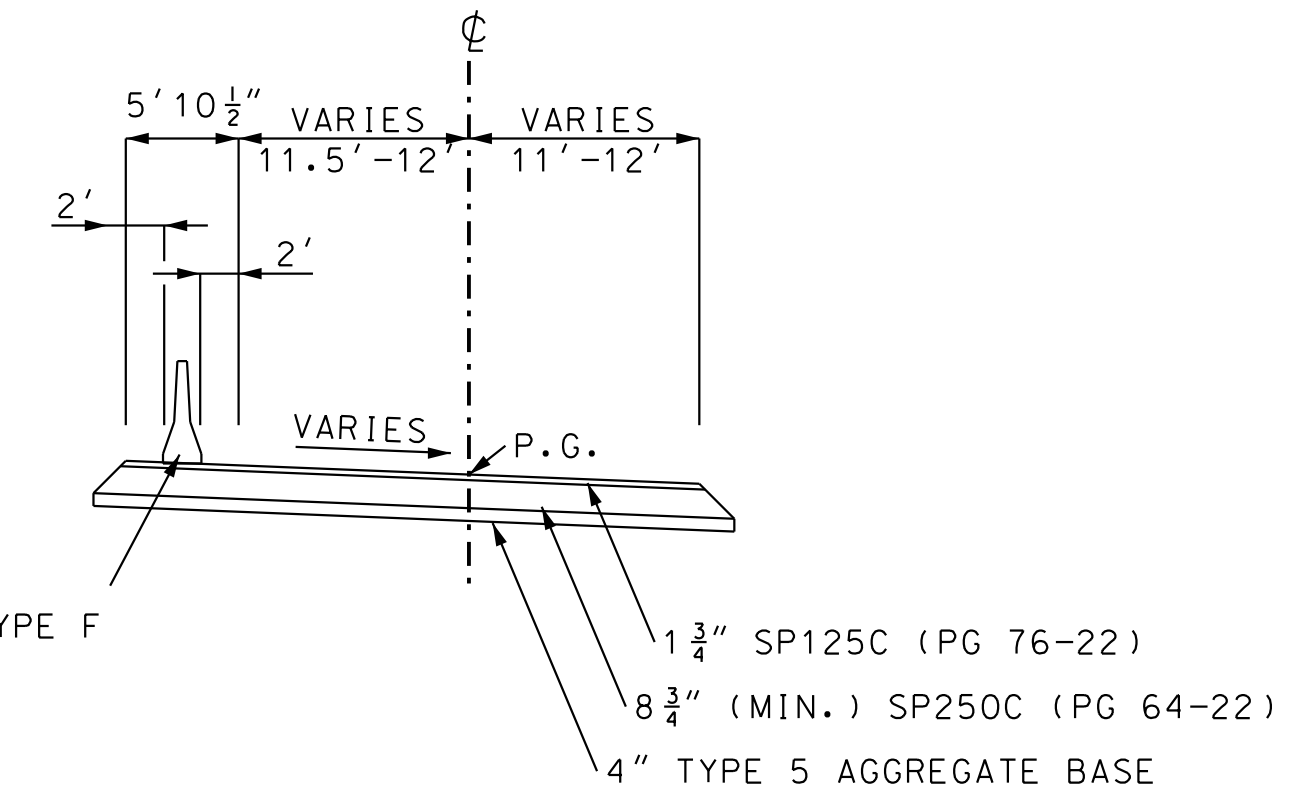
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

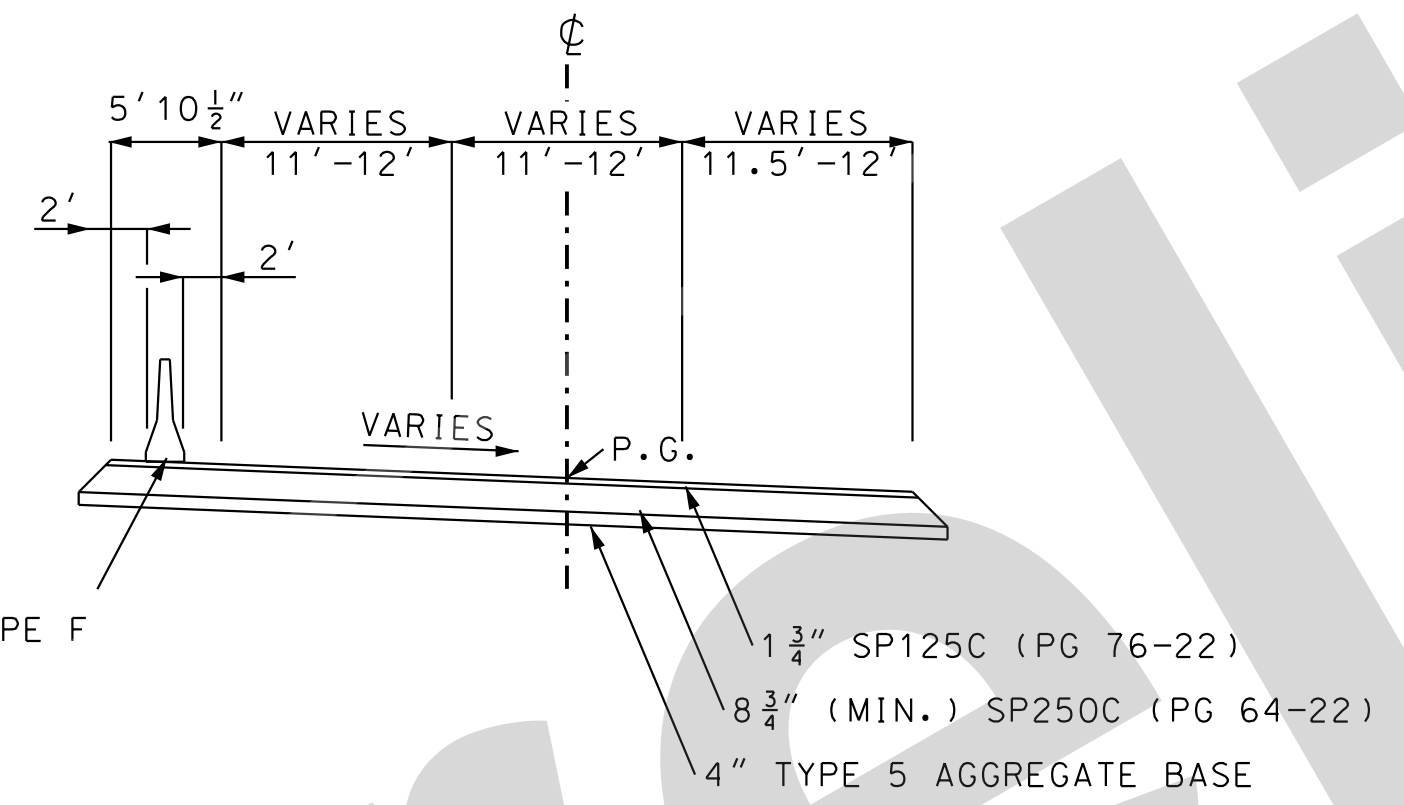
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
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Jacobs
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 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TYPICAL SECTION ON SUPERELEVATED CURVE
 TYPICAL SECTION STAGE 3 CROSSOVER
 STA. 53+44.78 TO STA. 55+54.72

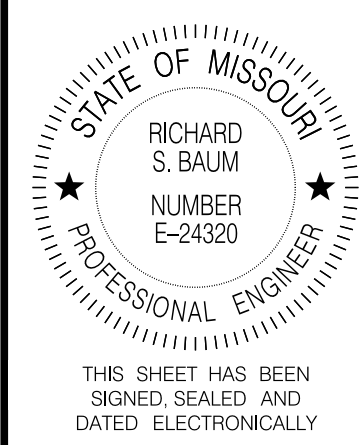


TYPICAL SECTION ON SUPERELEVATED CURVE
 TYPICAL SECTION STAGE 4 CROSSOVER
 STA. 51+16.97 TO STA. 53+97.43

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TRAFFIC CONTROL PLAN
 TYPICAL SECTIONS
 SHEET 3 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 74

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

CERTIFICATE OF AUTHORITY #00704

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501 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

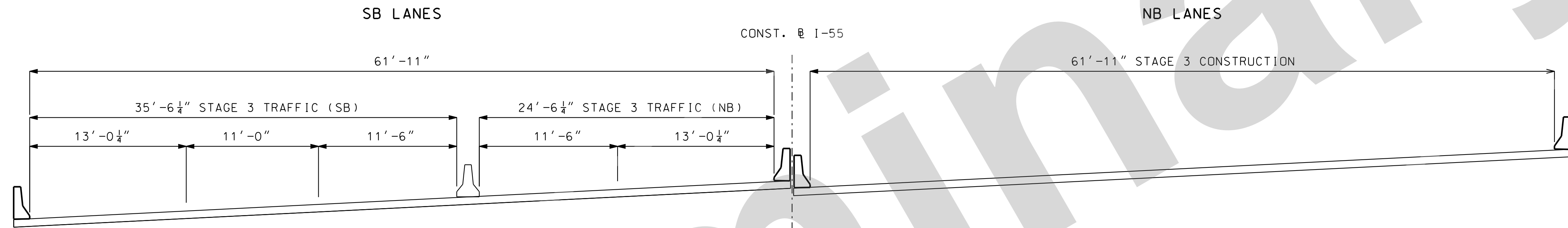
PHONE: (314) 335-4000

REVISION

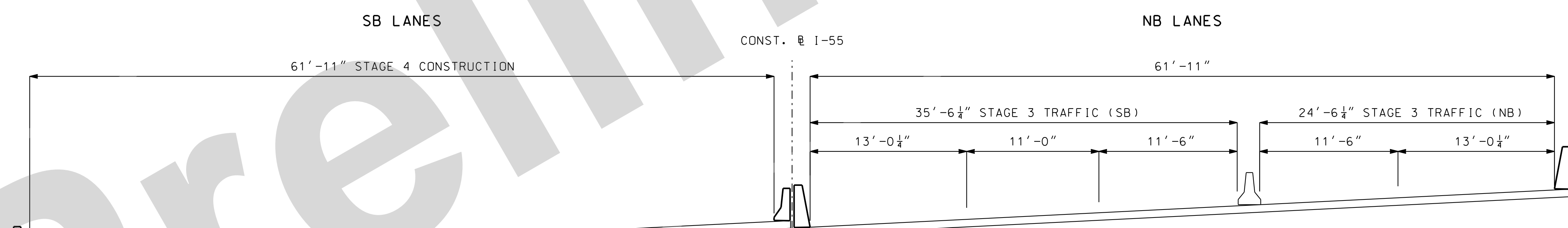
REV.

13:20 05-AUG-2021

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



BRIDGE A0607 OVER GRAVOIS CREEK
STAGE 3

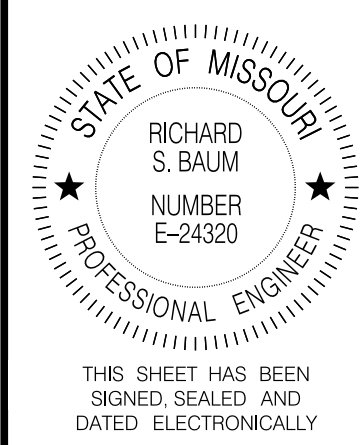


BRIDGE A0607 OVER GRAVOIS CREEK
STAGE 4

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 4 OF 17



DATE PREPARED
05-AUG-2021
ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 75

COUNTY
STL COUNTY/CITY
JOB NO.
J613187
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

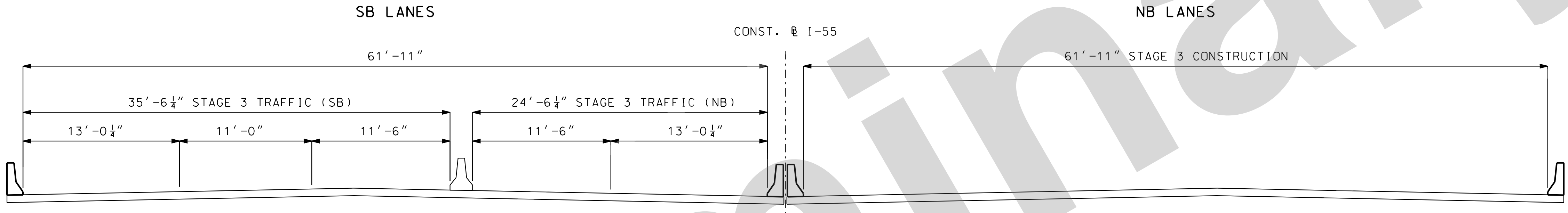
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

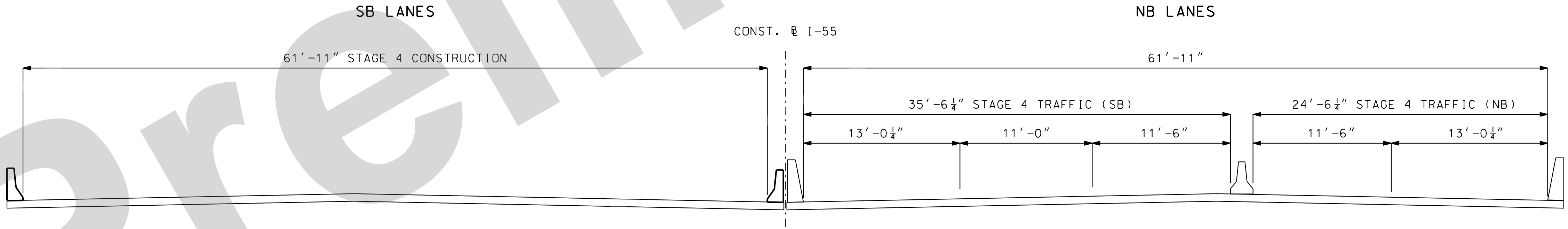
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 5 OF 17



BRIDGE A0591 OVER GREEN PARK ROAD
STAGE 3

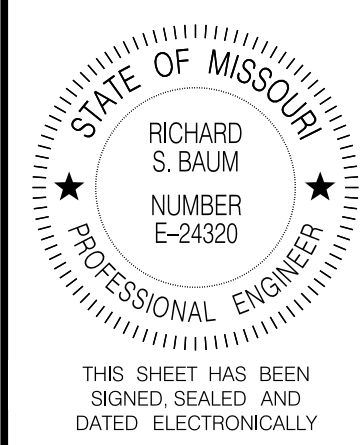


BRIDGE A0591 OVER GREEN PARK ROAD
STAGE 4

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Preliminary

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 76

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

MoDOT

JACOBS ENGINEERING GROUP

501 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

REVISIONS

NO. DESCRIPTION

DATE

DATE

DATE

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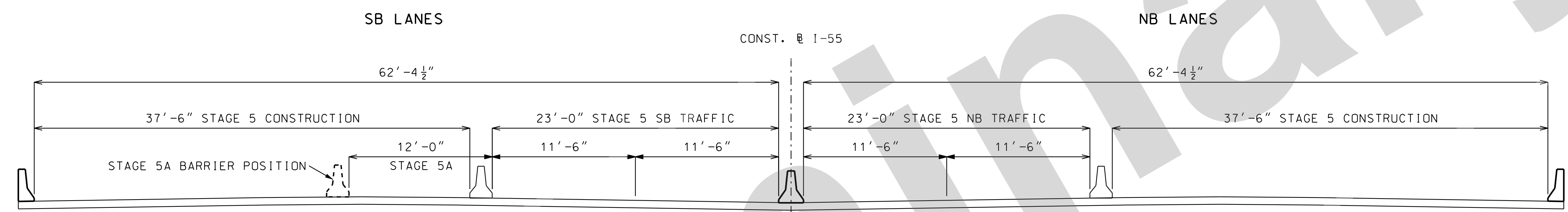
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DATE

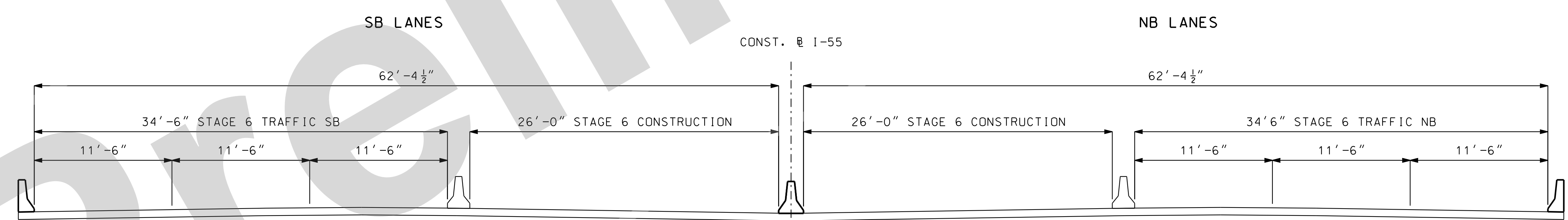
DATE

DATE

DATE



BRIDGE A5323 OVER BAYLESS AVE.
STAGE 5

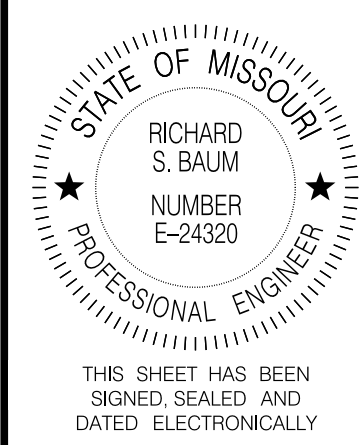


BRIDGE A5323 OVER BAYLESS AVE.
STAGE 6

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 6 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 77

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

MoDOT

JACOBS ENGINEERING GROUP

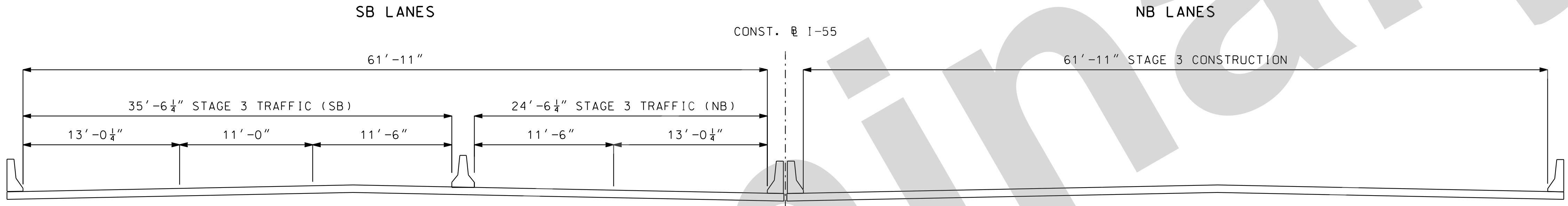
501 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

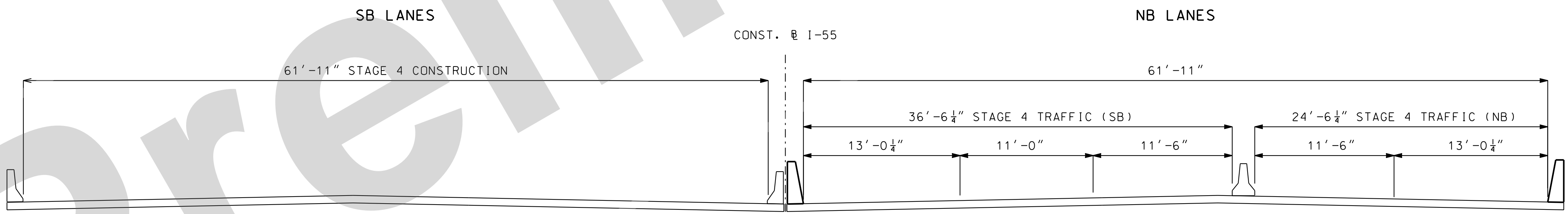
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

REV.



BRIDGE A1057 OVER RIVER DES PERES
STAGE 3

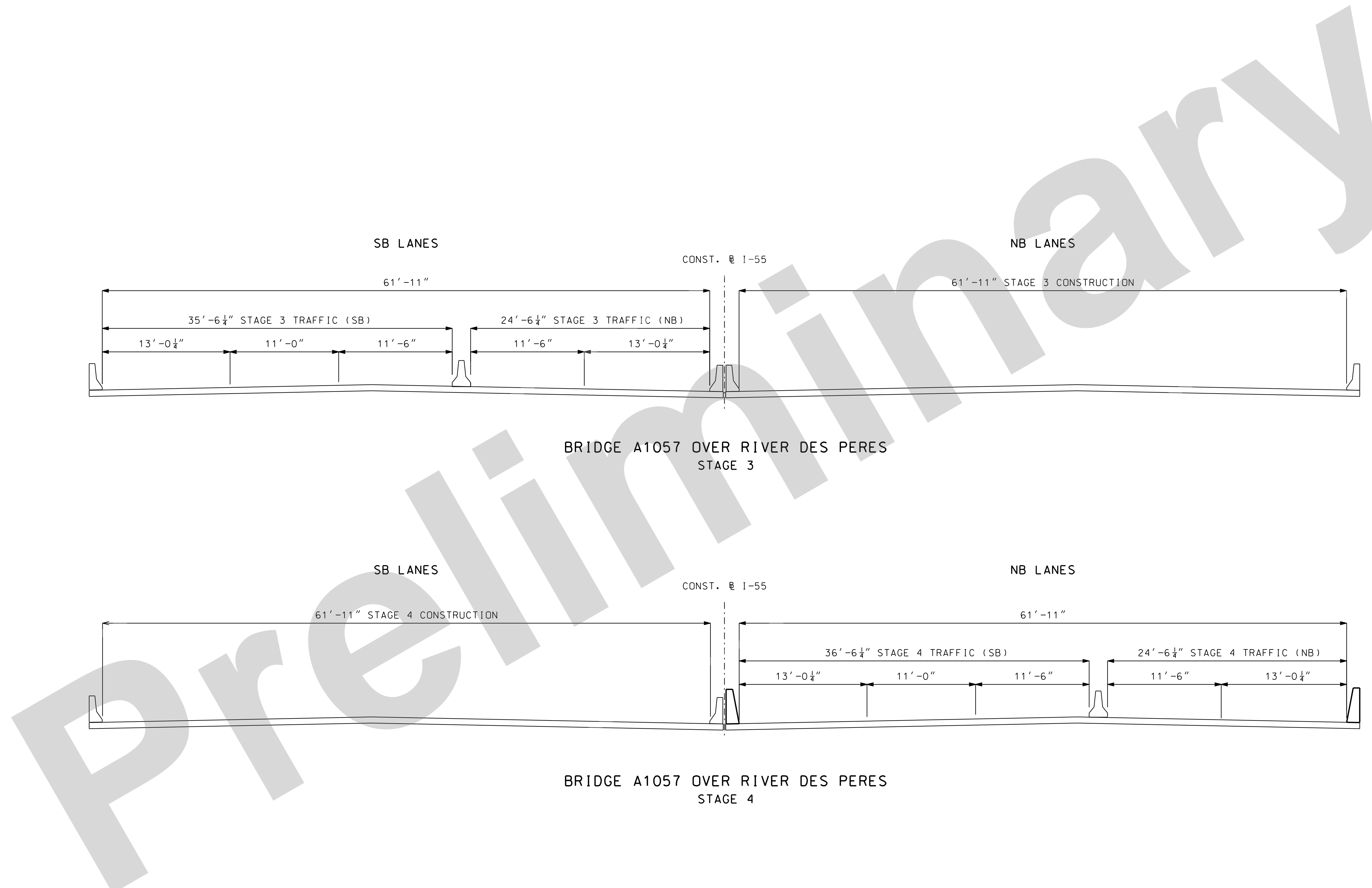


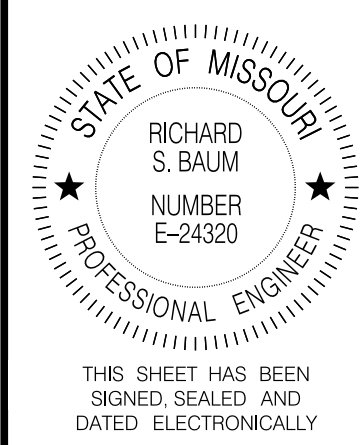
BRIDGE A1057 OVER RIVER DES PERES
STAGE 4

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 7 OF 17





THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 78

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

JACOBS ENGINEERING GROUP

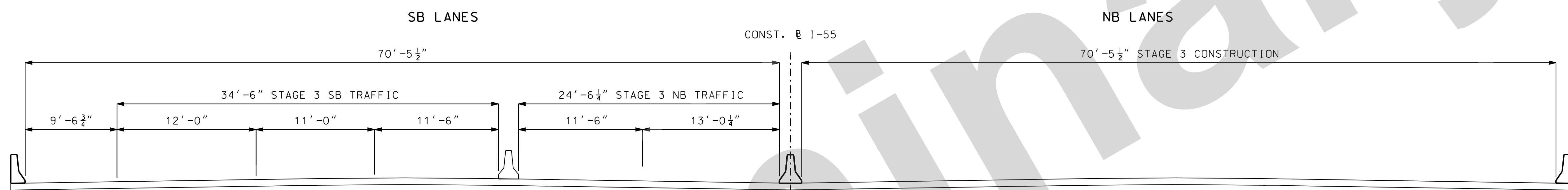
501 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

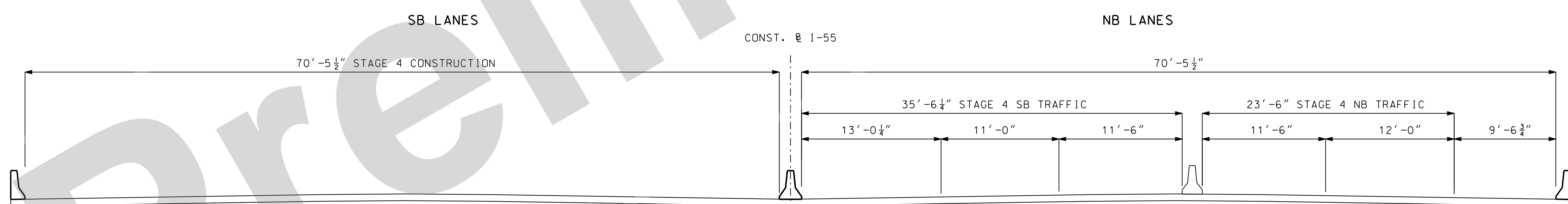
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

REV.



BRIDGE A1075 OVER KOELN AVE.
STAGE 3



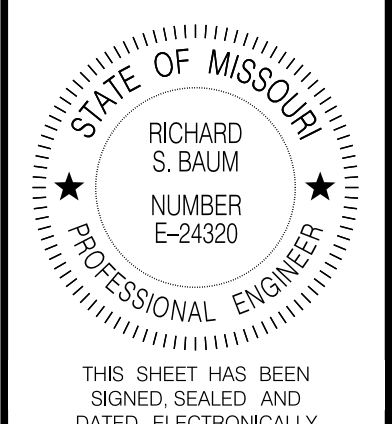
BRIDGE A1075 OVER KOELN AVE.
STAGE 4

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 8 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	79

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.
BRIDGE NO.

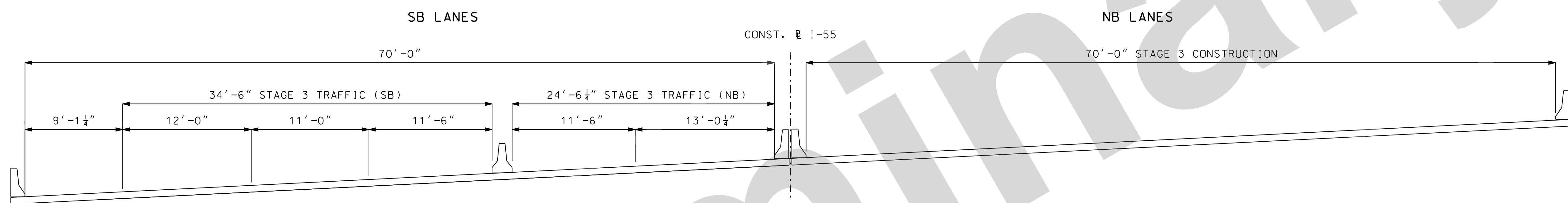
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

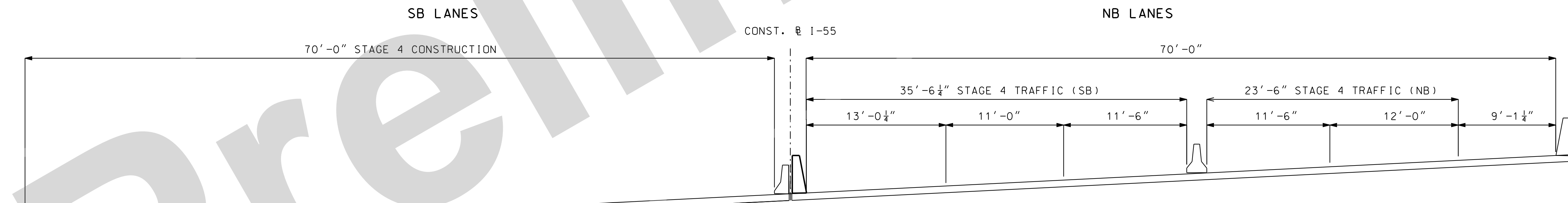
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



BRIDGE A1076 & A1276 OVER MISSOURI PACIFIC RAILROAD
STAGE 3



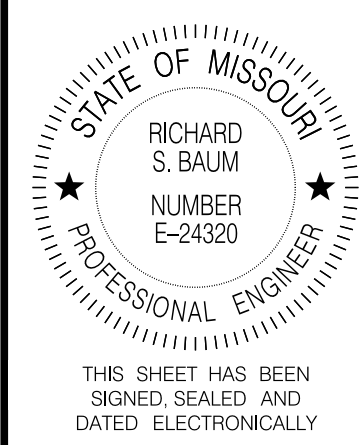
BRIDGE A1076 & A1276 OVER MISSOURI PACIFIC RAILROAD
STAGE 4

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 9 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 80

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

MoDOT

JACOBS ENGINEERING GROUP

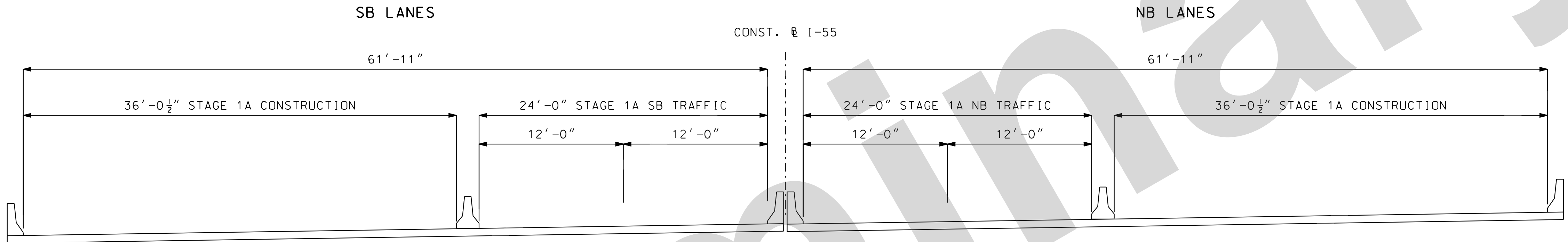
501 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

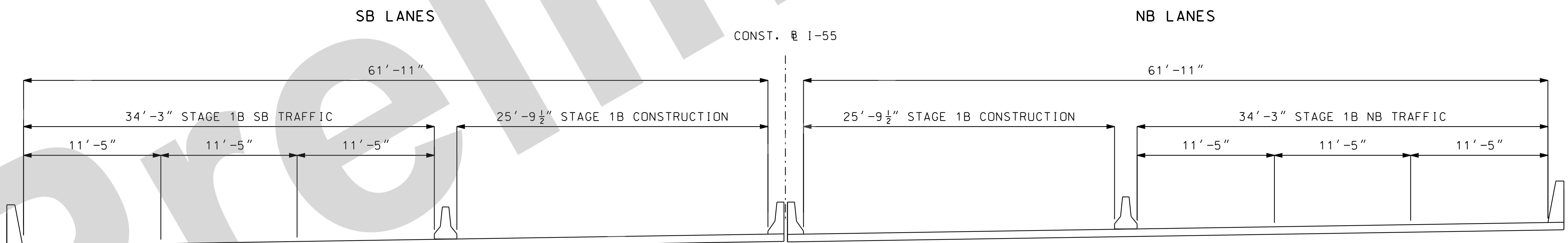
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

REV.



BRIDGE A1079 OVER VIRGINIA AVE.
STAGE 1A



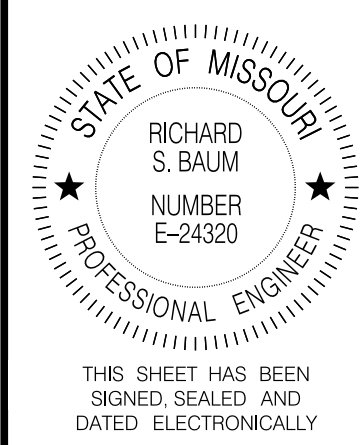
BRIDGE A1079 OVER VIRGINIA AVE.
STAGE 1B

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 10 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 81

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

JACOBS

JACOBS ENGINEERING GROUP

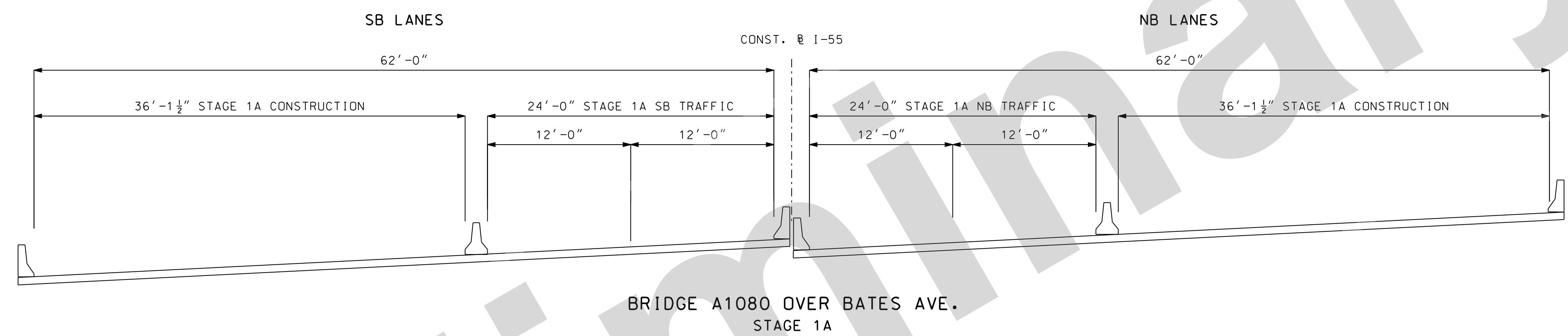
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ST. LOUIS, MISSOURI 63102-2121

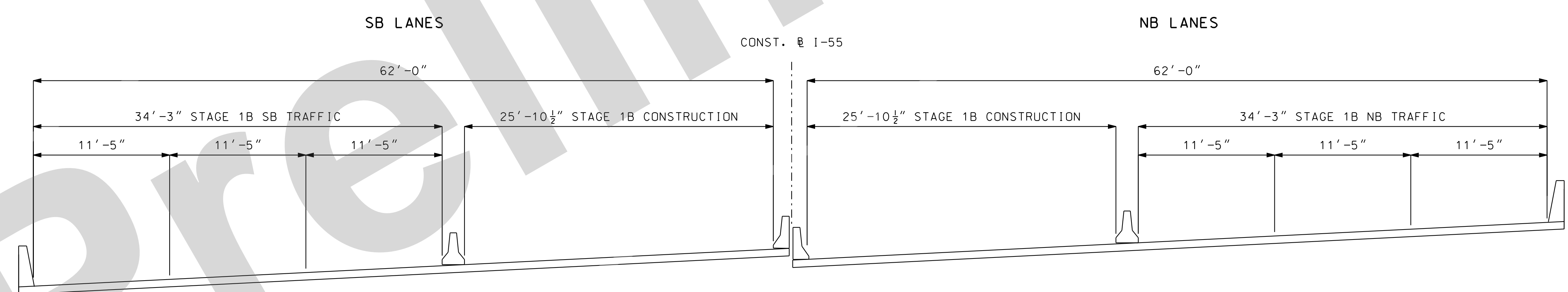
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

REV.



BRIDGE A1080 OVER BATES AVE.
STAGE 1A



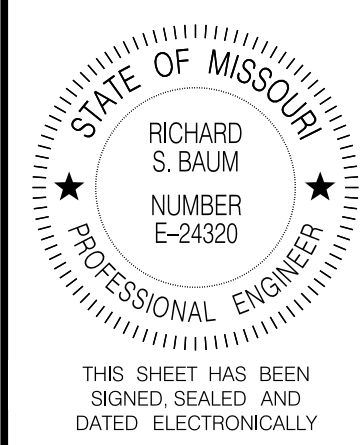
BRIDGE A1080 OVER BATES AVE.
STAGE 1B

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 11 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 82

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP

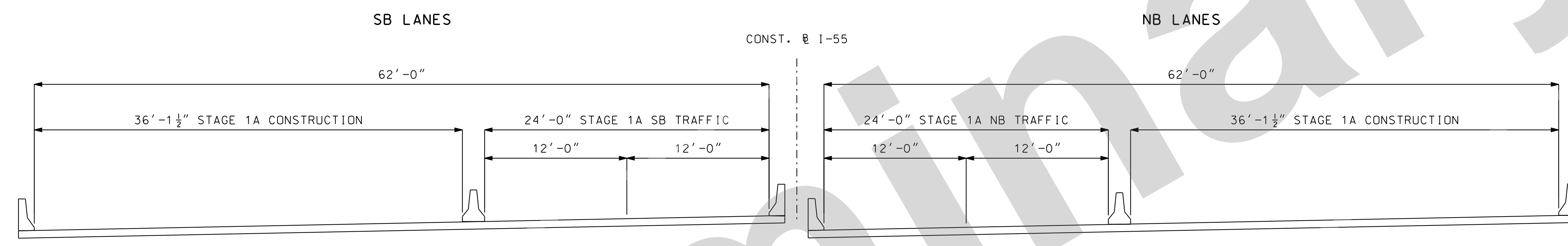
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ST. LOUIS, MISSOURI 63102-2121

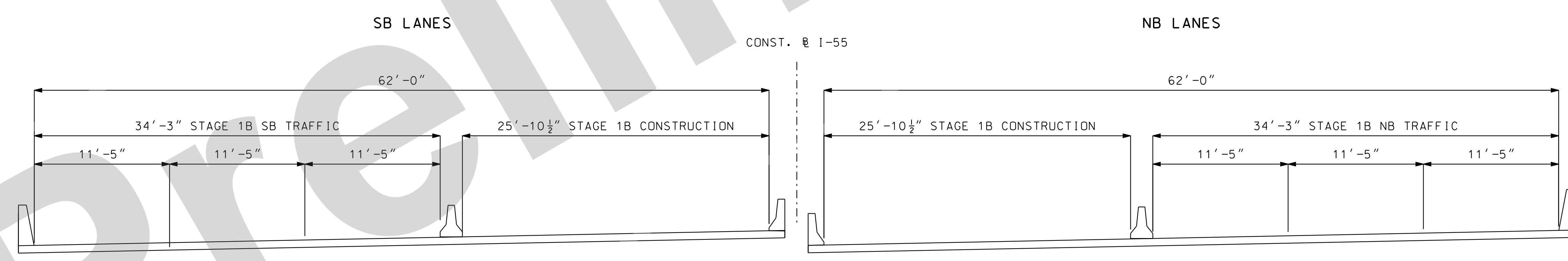
PHONE: (314) 335-4000

CERTIFICATE OF AUTHORITY #00704

REV.



BRIDGE A1082 OVER 4500 S. BROADWAY
STAGE 1A



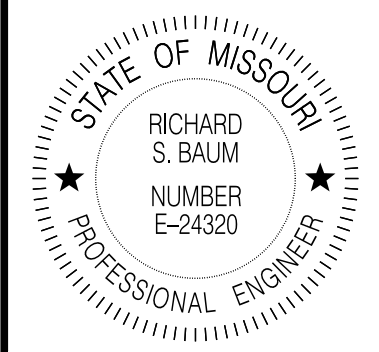
BRIDGE A1082 OVER 4500 S. BROADWAY
STAGE 1B

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TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 12 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

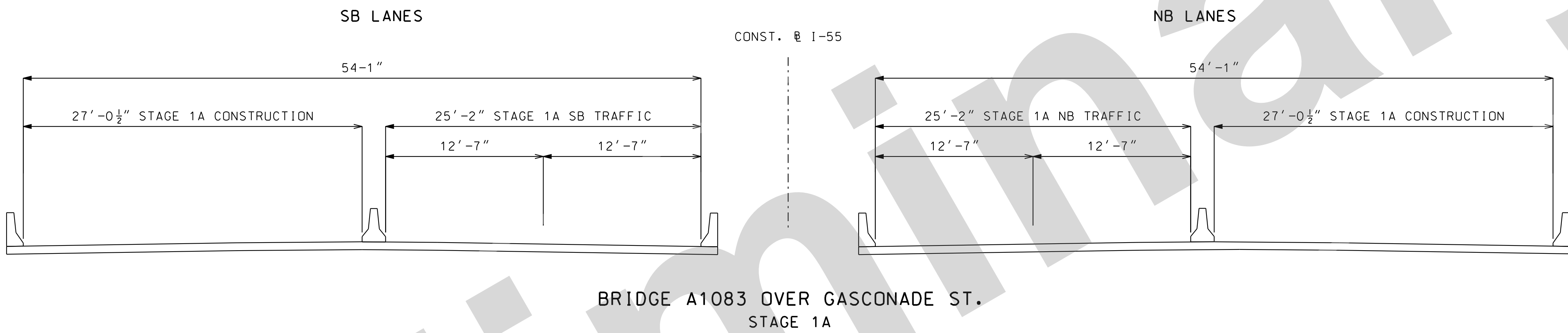


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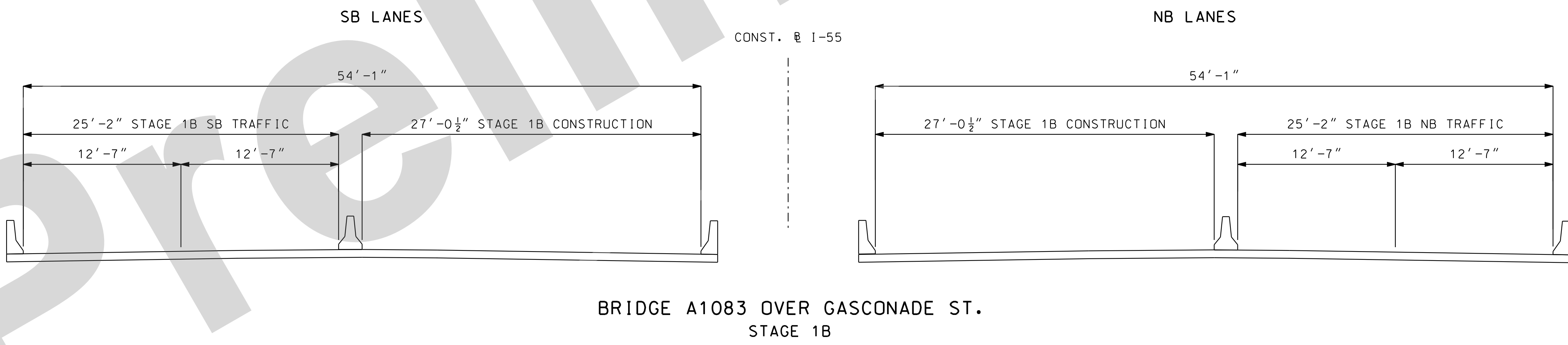
DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	83
COUNTY	
ST. LOUIS CITY	
JOB NO.	
J613149	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.



BRIDGE A1083 OVER GASCONADE ST.
STAGE 1A



BRIDGE A1083 OVER GASCONADE ST.
STAGE 1B

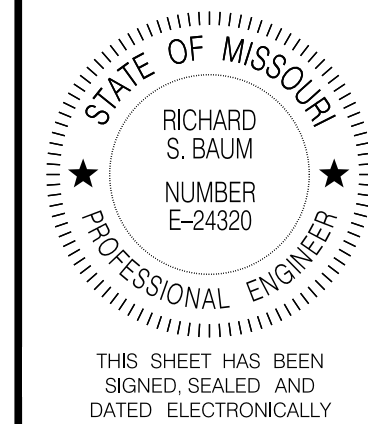
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

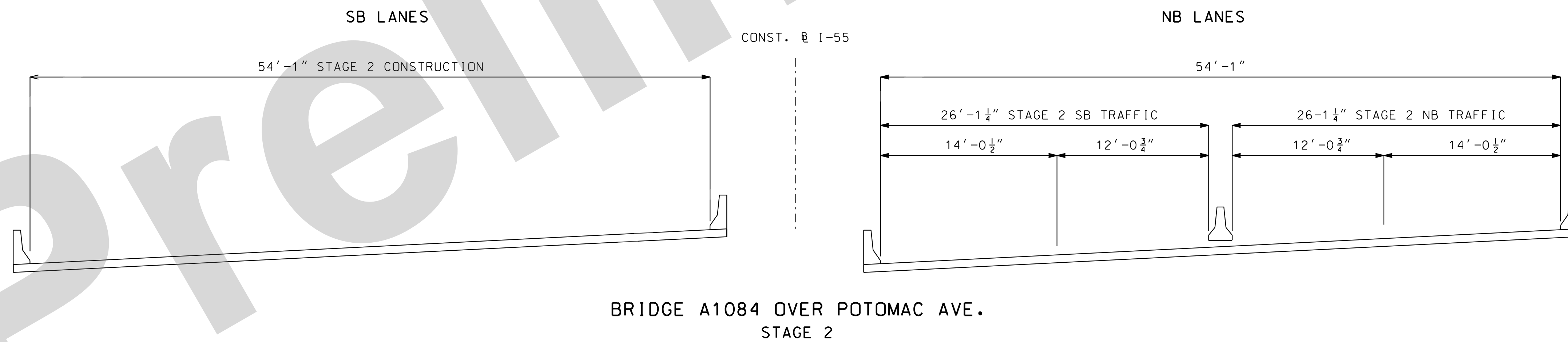
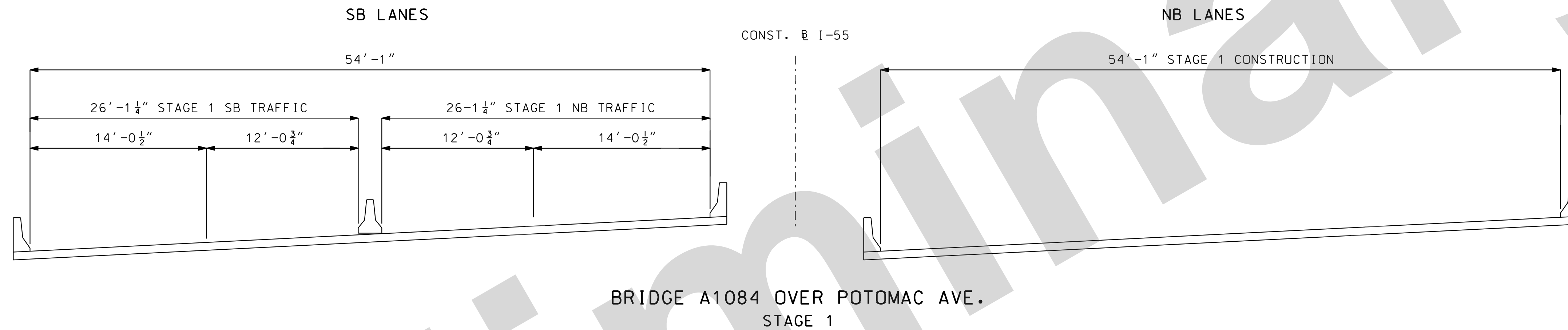
Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 84
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

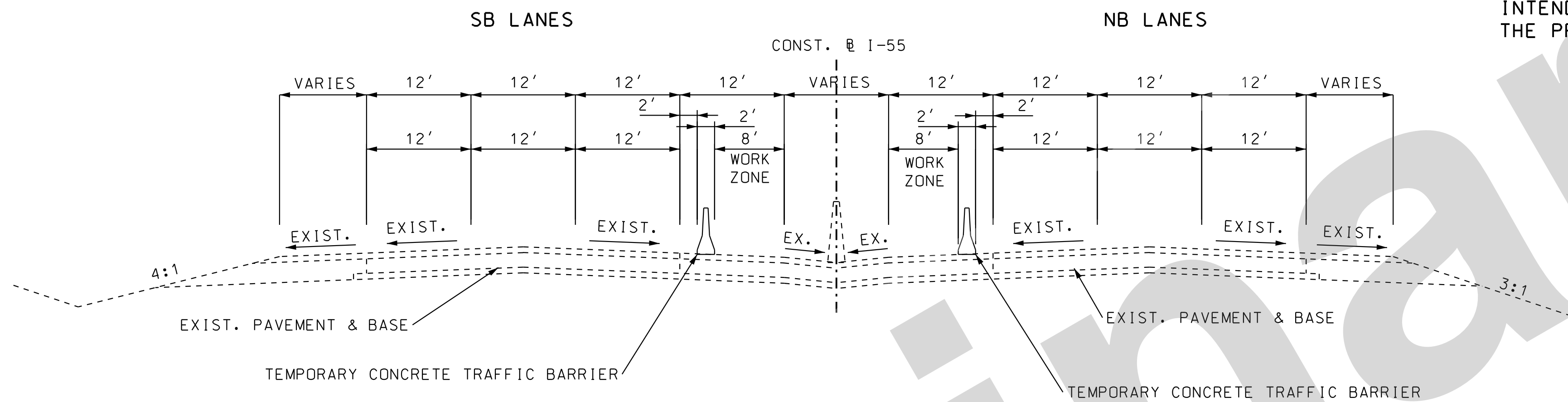
TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
SHEET 14 OF 17

DISCLAIMER

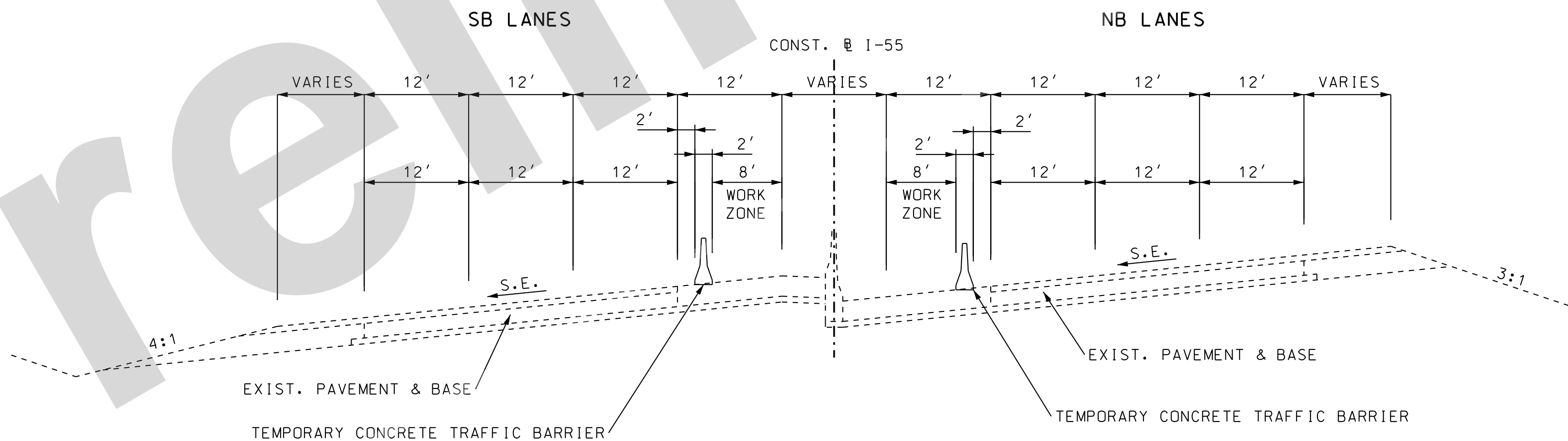
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

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TYPICAL SECTION ON TANGENT
 TYPICAL SECTION I-55



TYPICAL SECTION ON SUPERELEVATED CURVE
 TYPICAL SECTION I-55



DATE PREPARED
 05-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT SL SHEET NO. 87
 COUNTY ST. LOUIS CITY
 JOB NO. J613187/J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DESCRIPTION	DATE

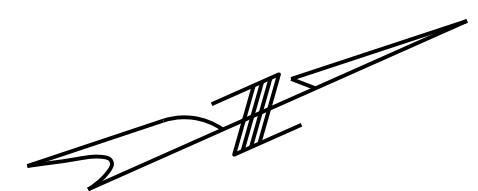
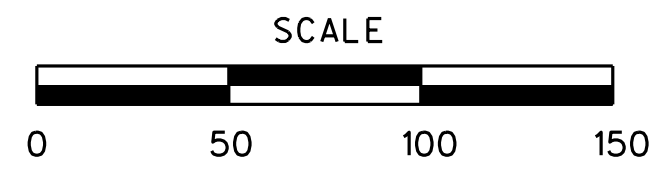
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

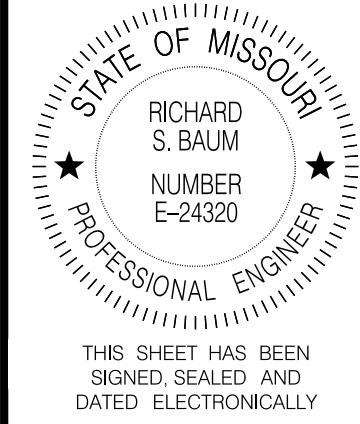
EKK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
 314-594-5100

TRAFFIC CONTROL PLAN
 TYPICAL SECTIONS
 MEDIAN BARRIER REPLACEMENT
 SHEET 17 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 89

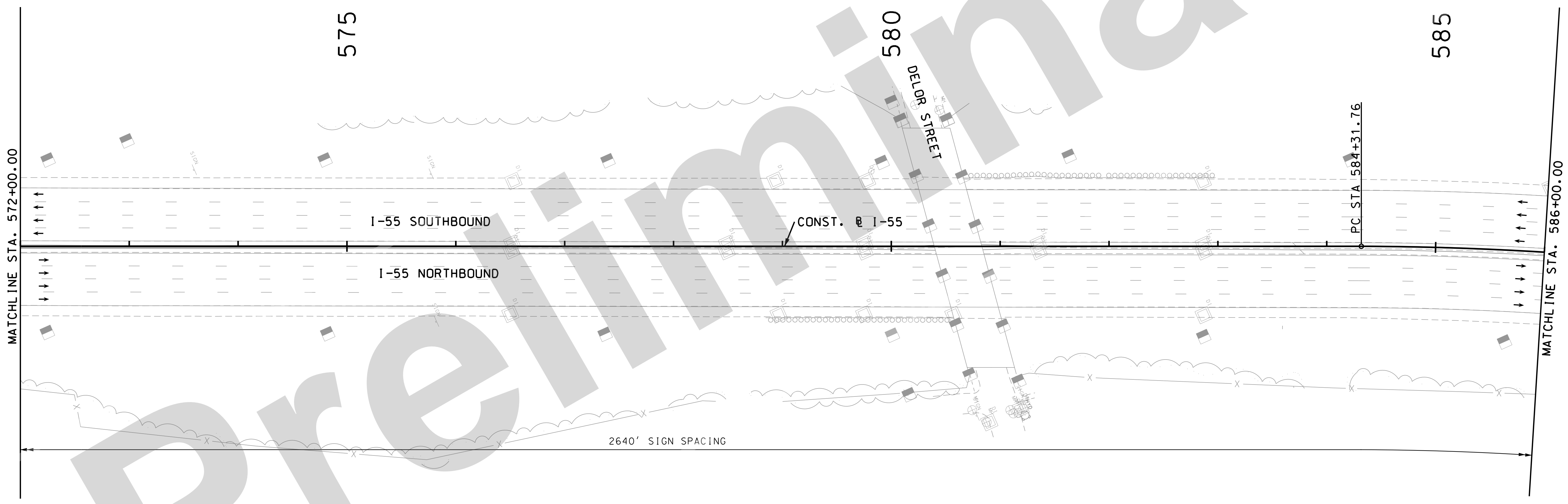
COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

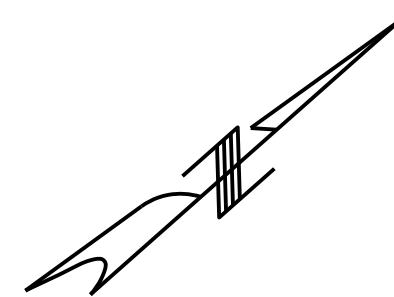
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 2 OF 17

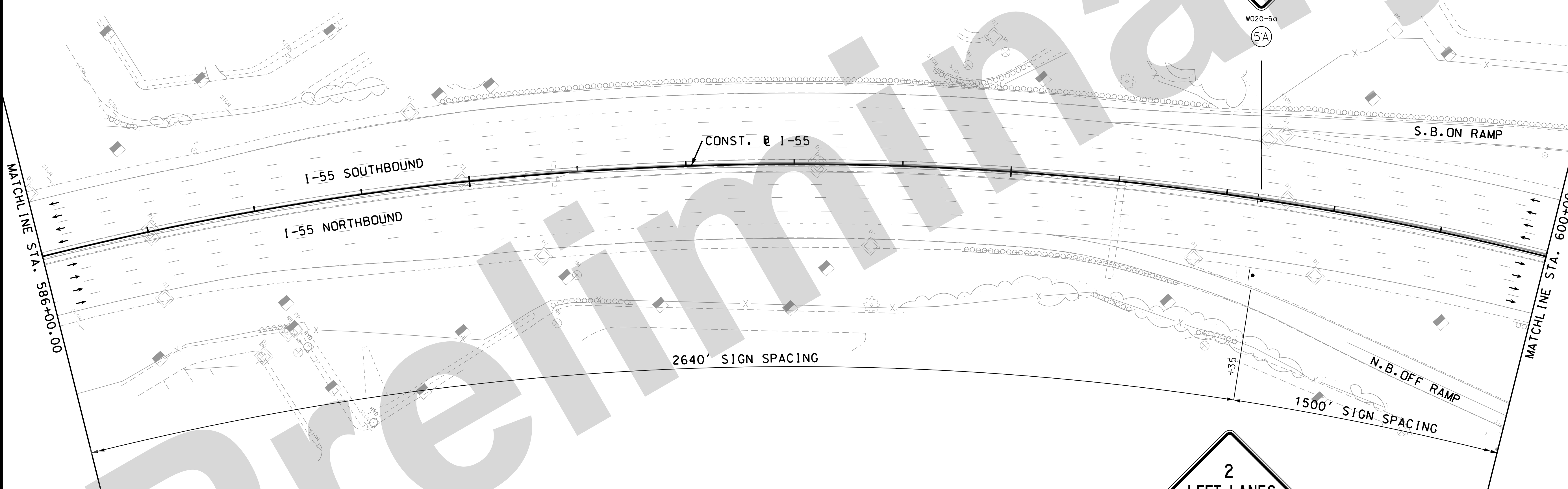
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590

595

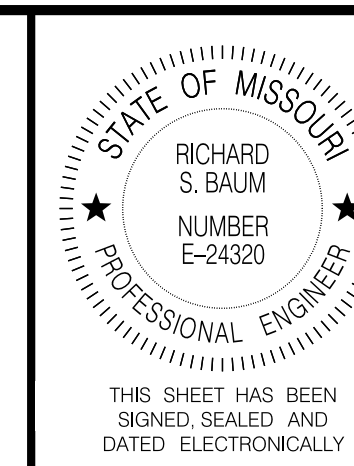


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◯ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌊ BARRICADE
- ⋯ ARROW BOARD
- ⌊ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 90
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

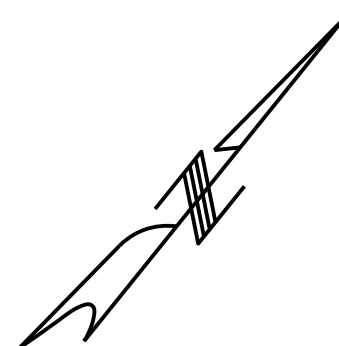
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

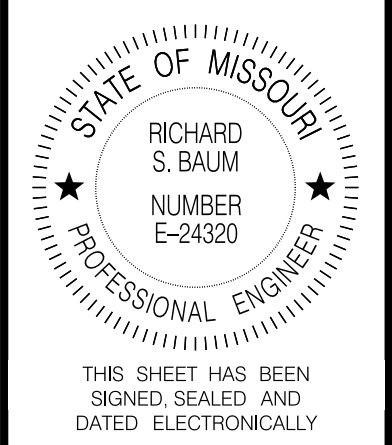
Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 3 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 91
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

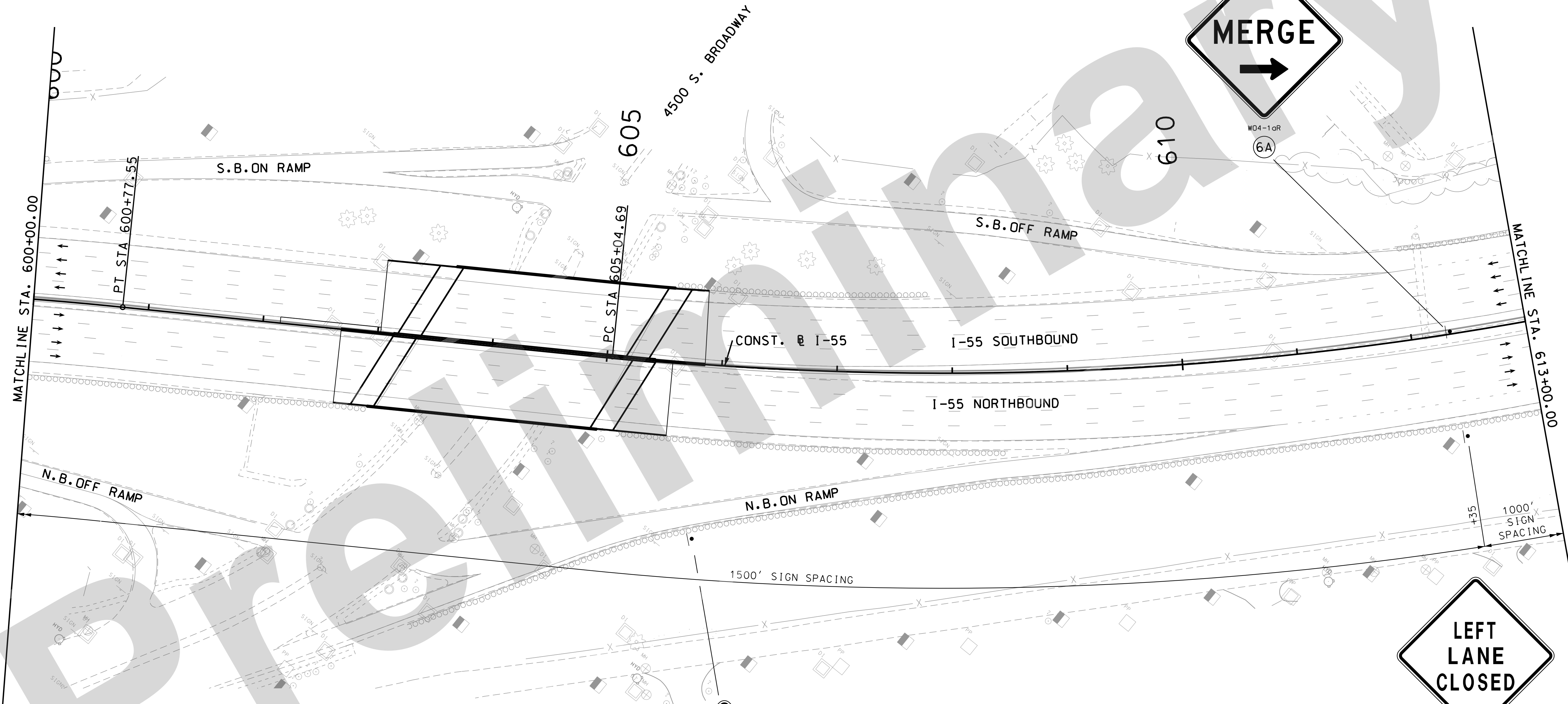
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

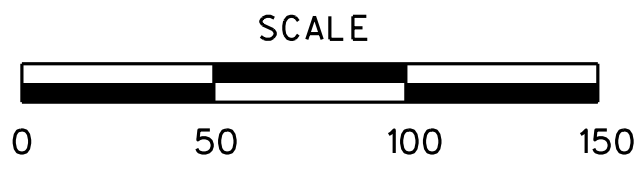
- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- △ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌄ BARRICADE
- ⋯ ARROW BOARD
- ⌄ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

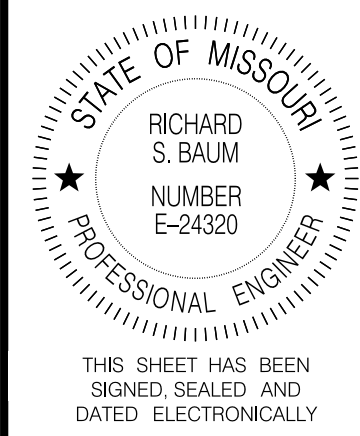
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- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
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- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 4 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DISCLAIMER
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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 92
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

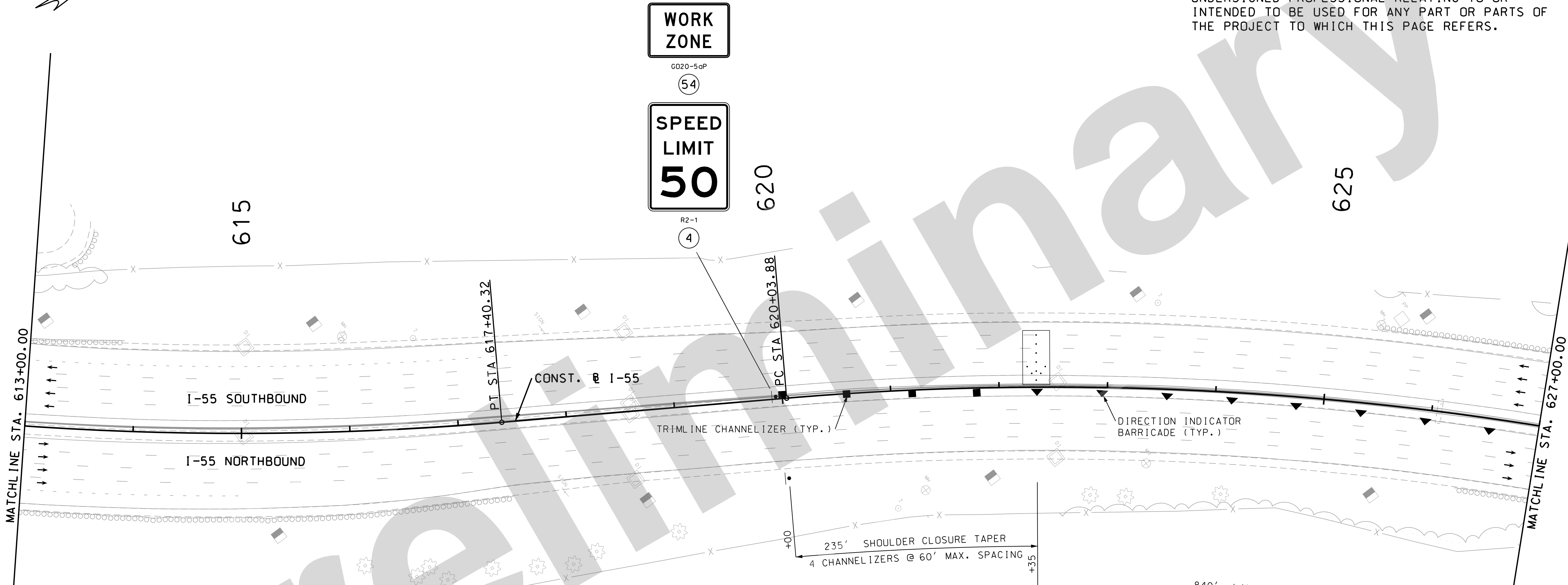
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

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 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- ◻ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

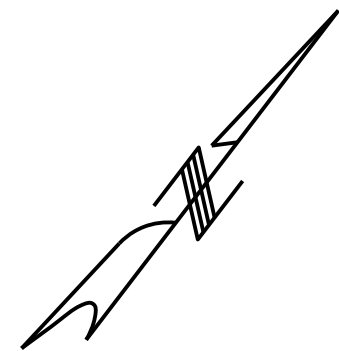
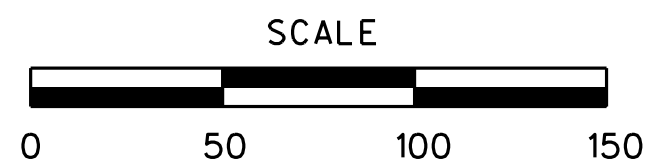
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- TSW = TEMPORARY SOLID WHITE
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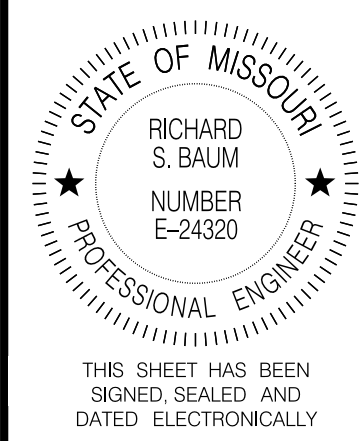
TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 5 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



DISCLAIMER
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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 93
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

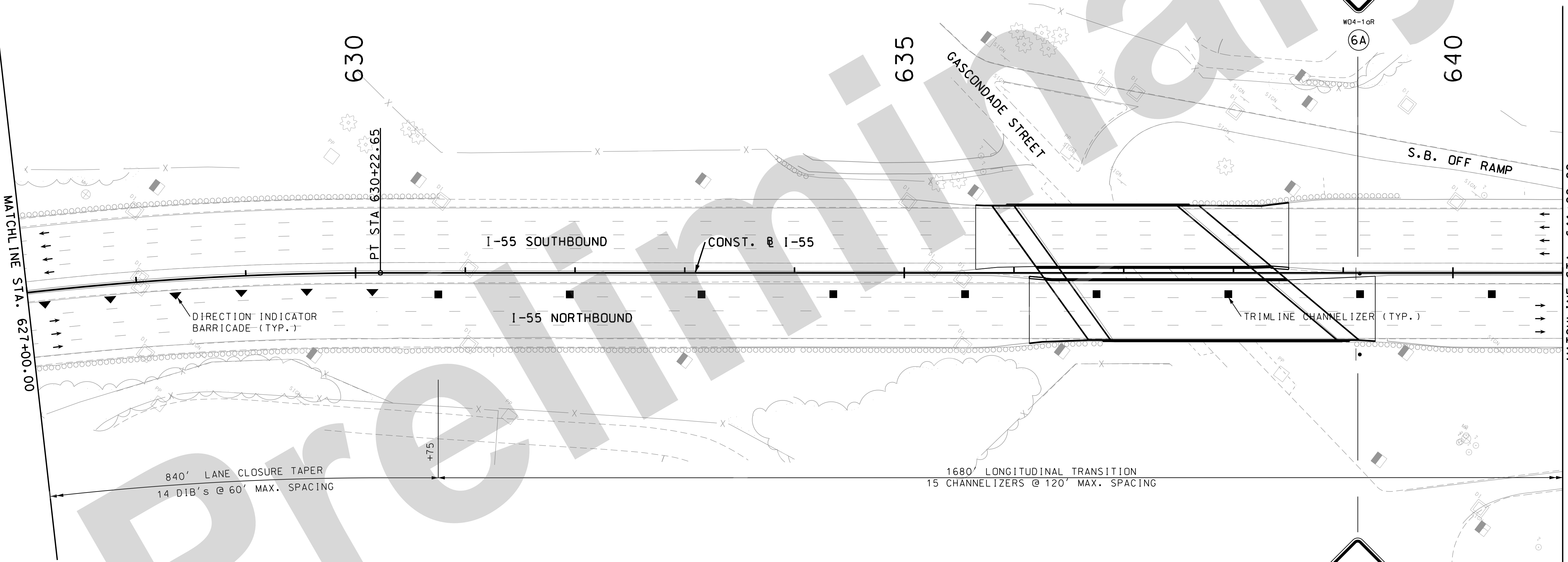
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

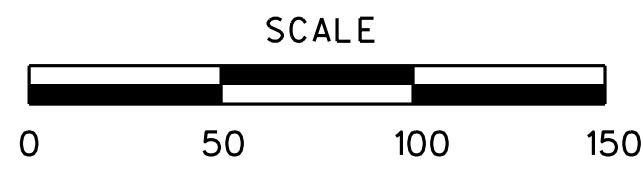
- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

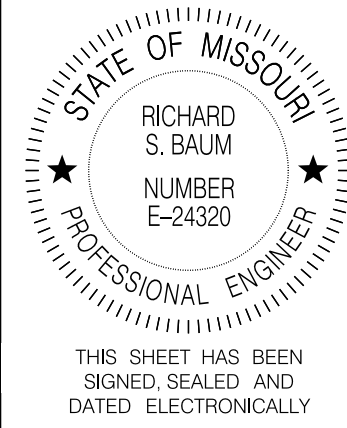
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- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 6 OF 17

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ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 94

COUNTY
ST. LOUIS CITY

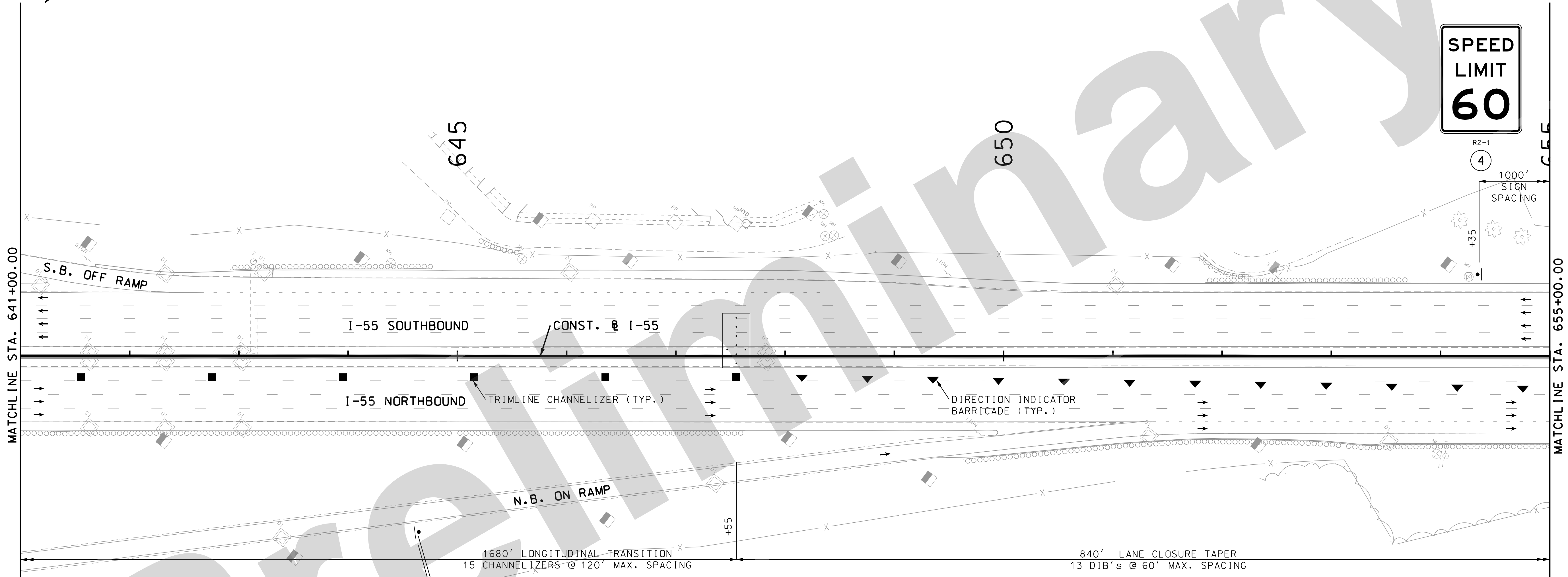
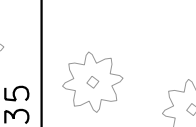
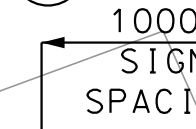
JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ▩ CHANGEABLE MESSAGE BOARD



W020-1
②

STRIPING LEGEND

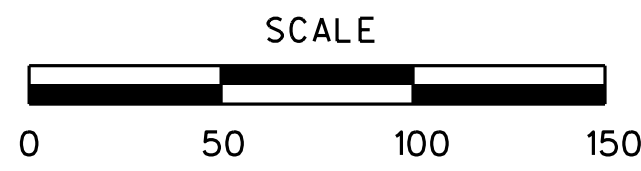
- TSW = TEMPORARY SOLID WHITE
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- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
STAGE 1
SHEET 7 OF 17

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

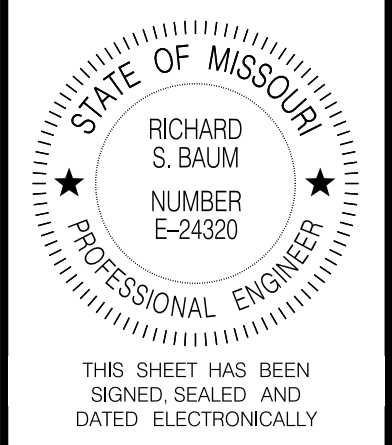
Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 95
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

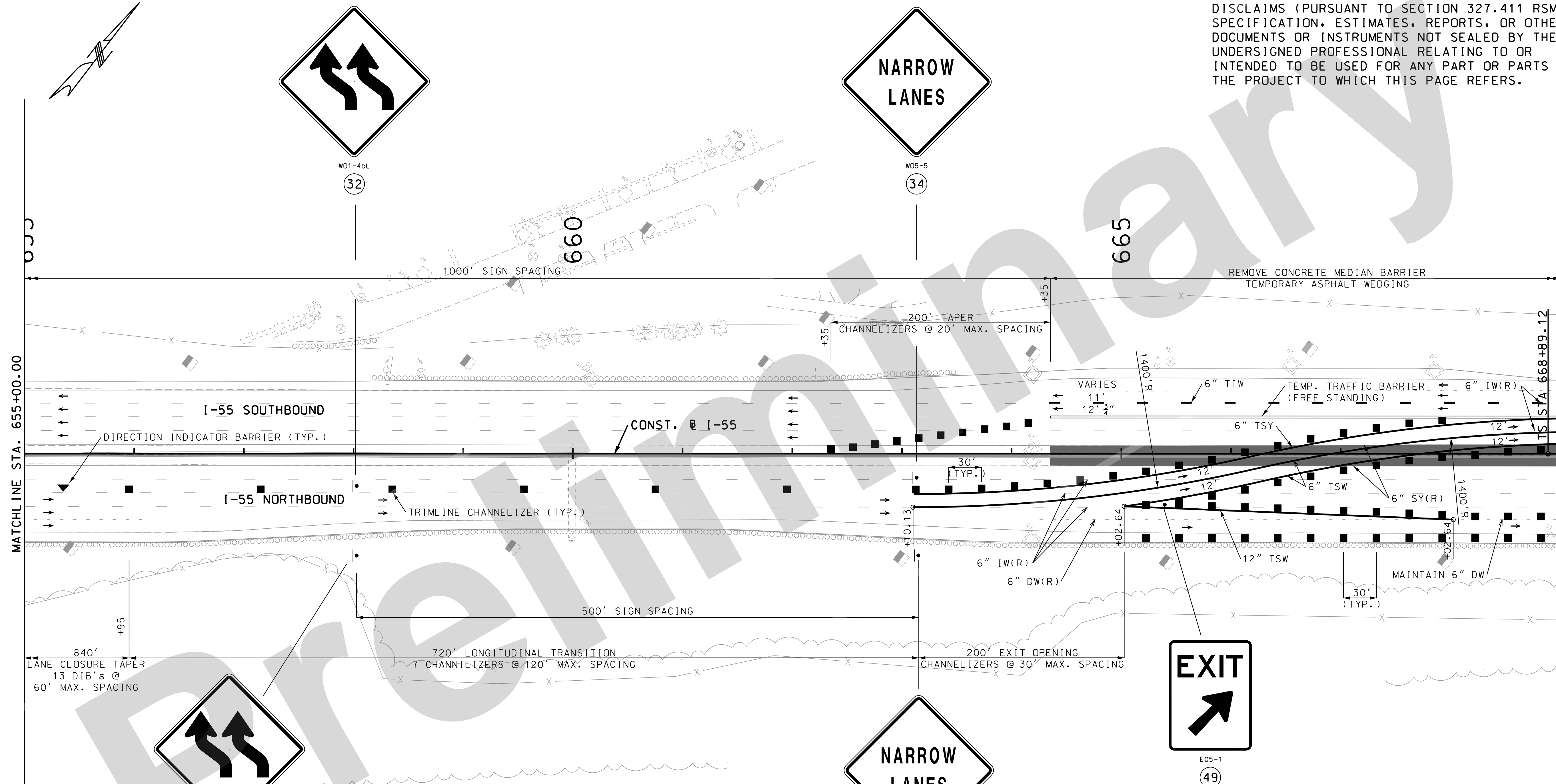
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 8 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL LEGEND

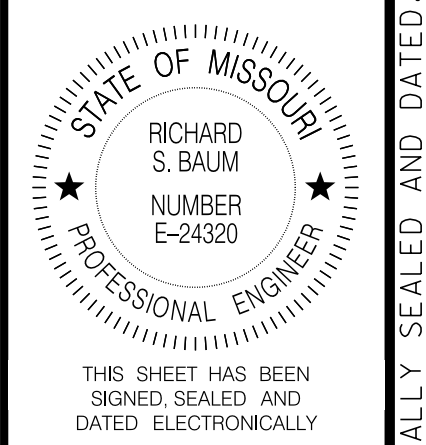
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- ◐ SIGN (DOUBLE SIDED)
- ◌ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
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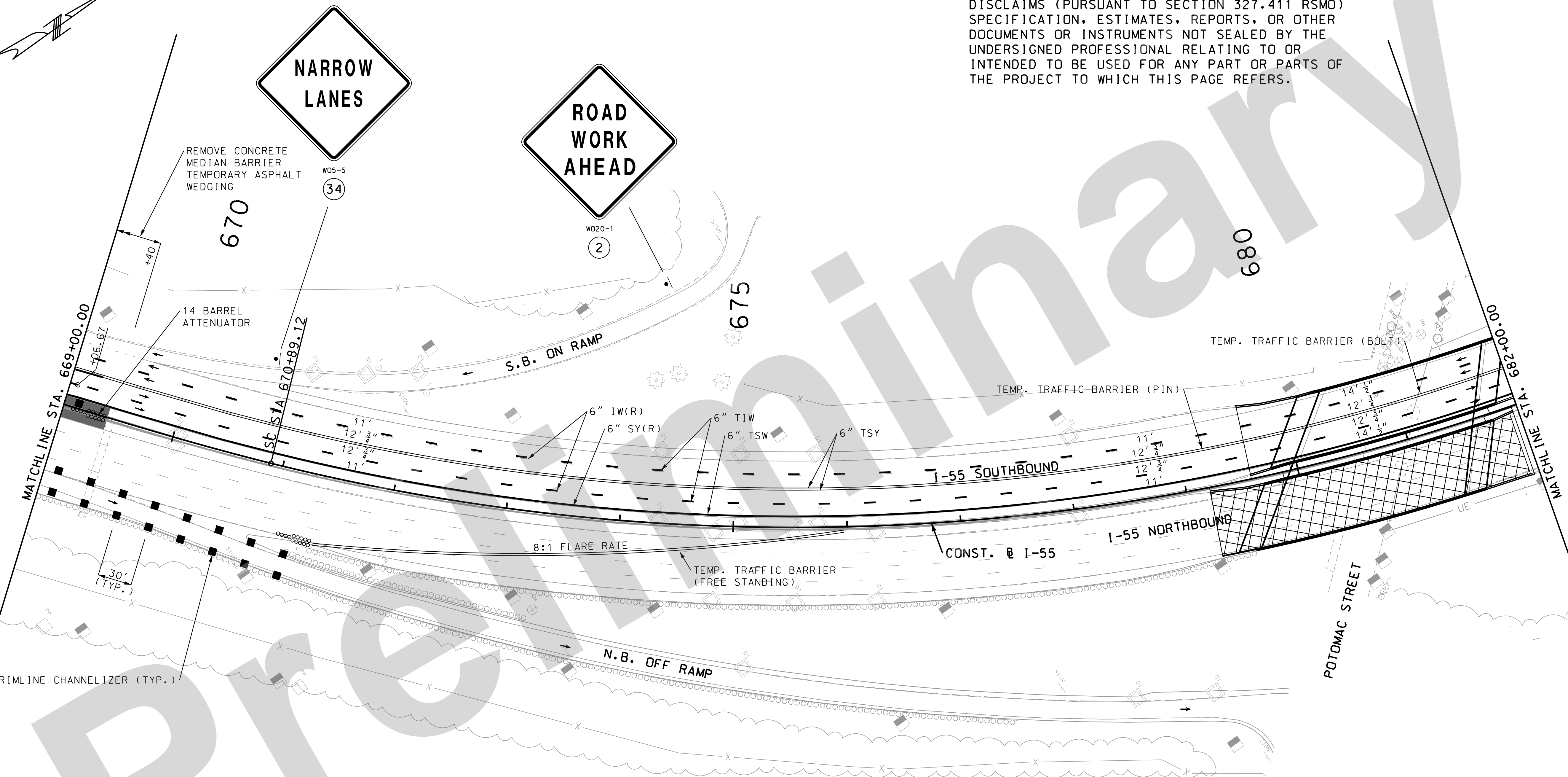
DATE PREPARED	05-AUG-2021		
ROUTE	STATE	MO	
DISTRICT	SHEET NO.		96
COUNTY			
ST. LOUIS CITY			
JOB NO.			
J613149			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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 CERTIFICATE OF AUTHORITY #00704



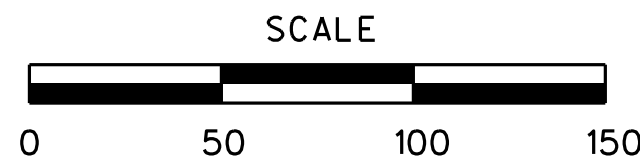
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- ◉ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌂ BARRICADE
- ⇨ ARROW BOARD
- ⌂ CHANGEABLE MESSAGE BOARD

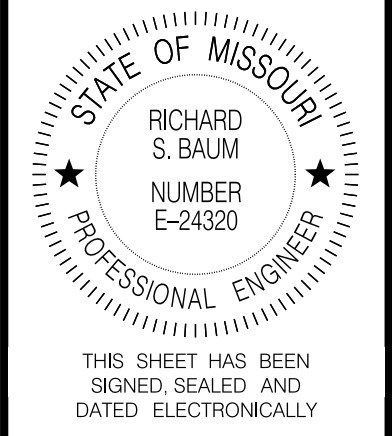
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TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 9 OF 17



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DATE PREPARED
 05-AUG-2021
 ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 97
 COUNTY
 ST. LOUIS CITY
 JOB NO.
 J613149
 CONTRACT ID.

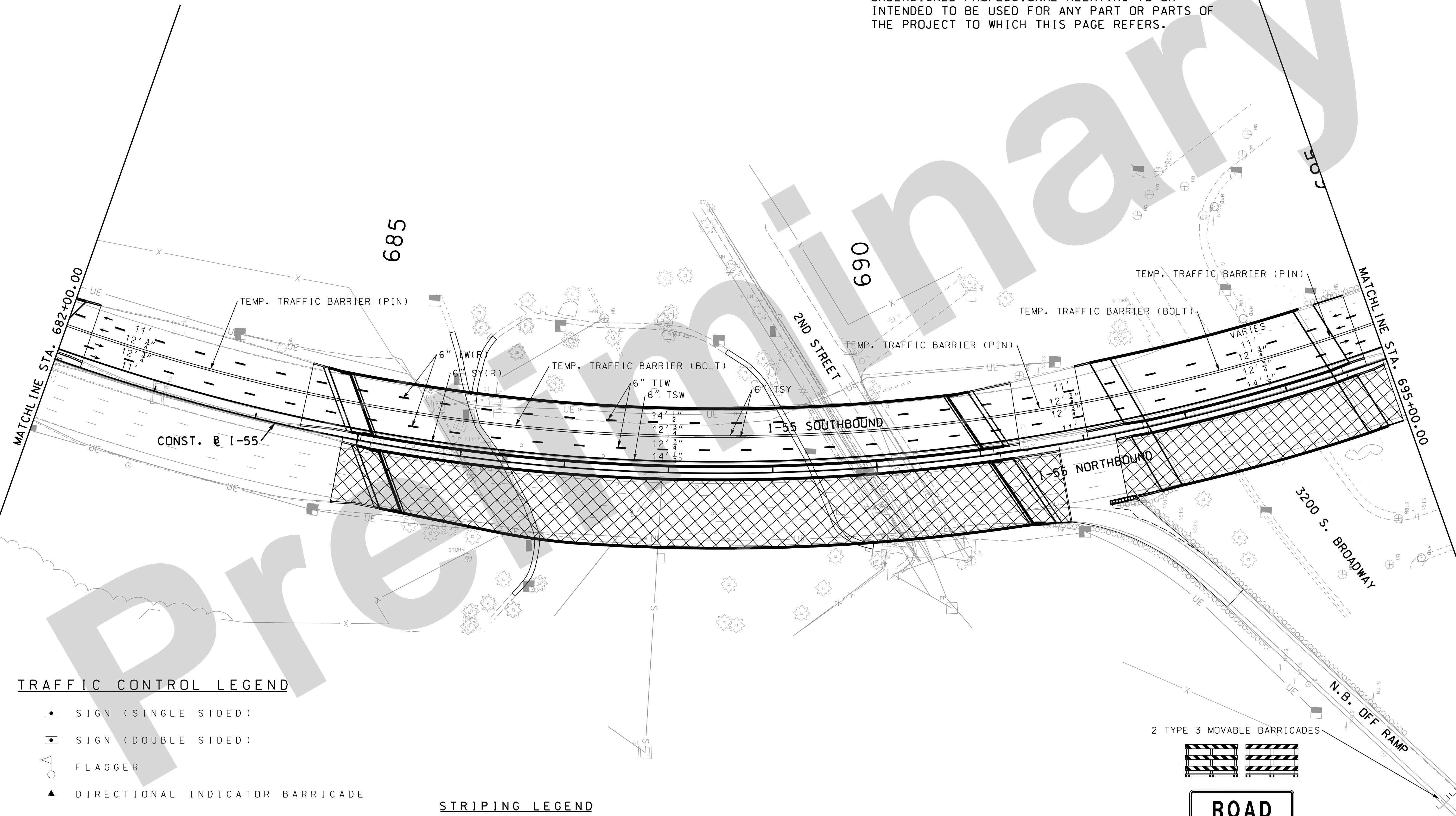
PROJECT NO.
 BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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 CERTIFICATE OF AUTHORITY #00704

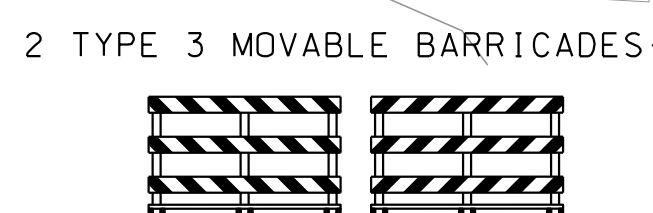


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

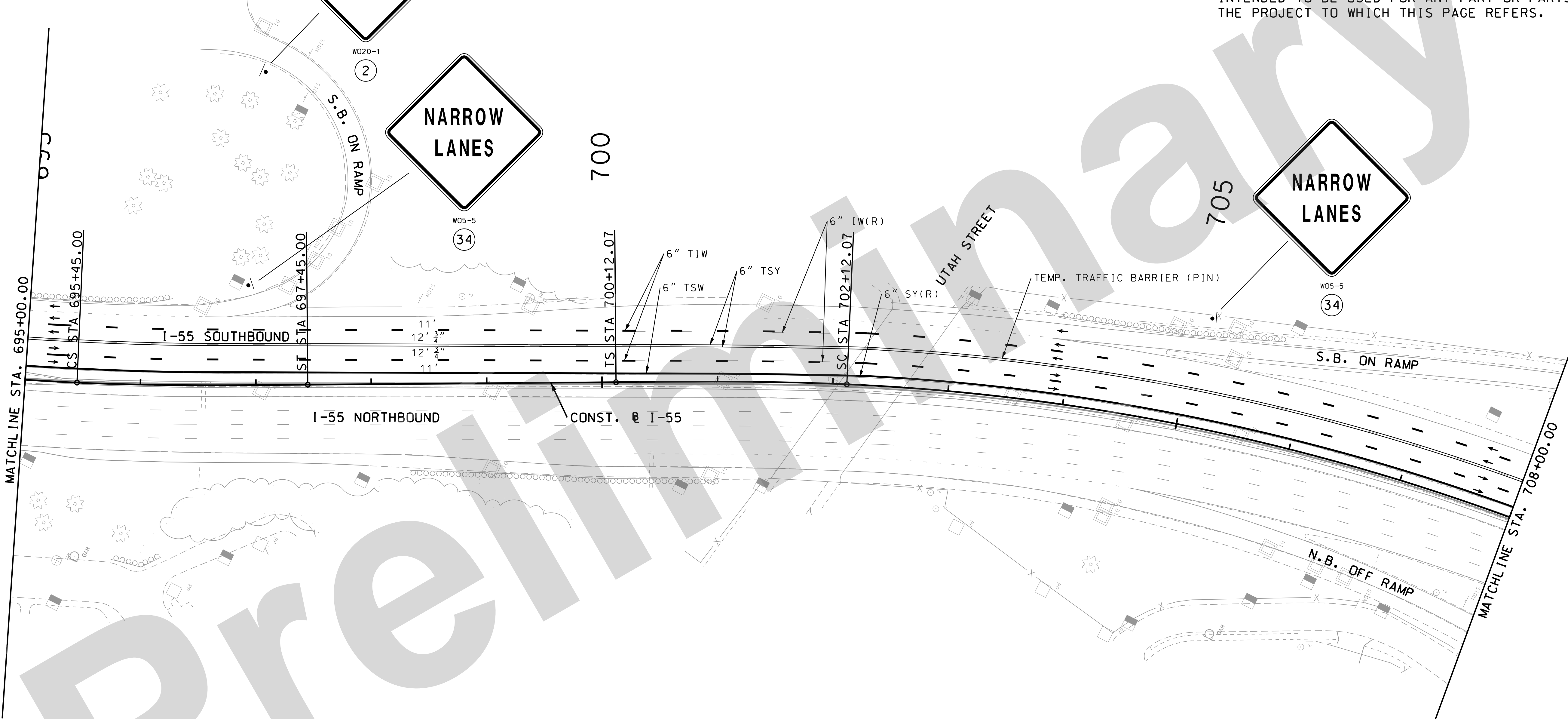
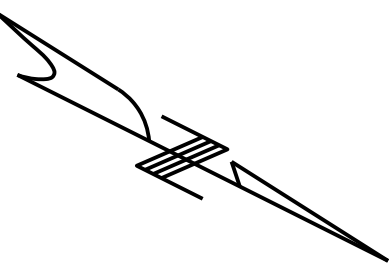
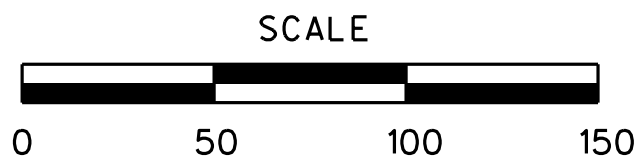
- TSW = TEMPORARY SOLID WHITE
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- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



R11-2
 (29)

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 10 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



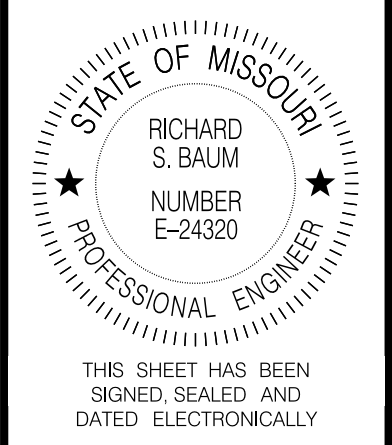
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
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- ▭ CHANGEABLE MESSAGE BOARD

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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 98
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

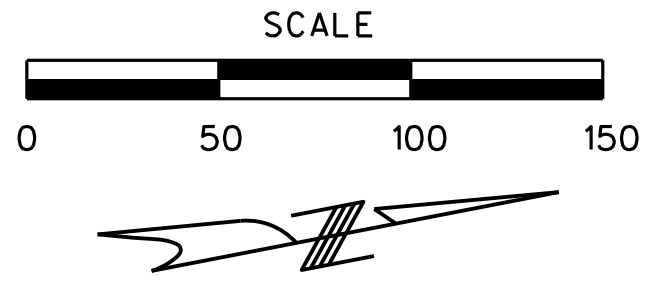
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

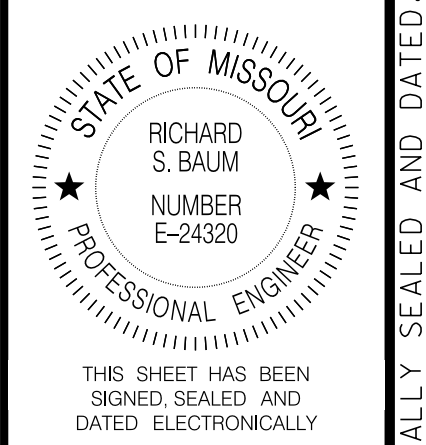
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 11 OF 17

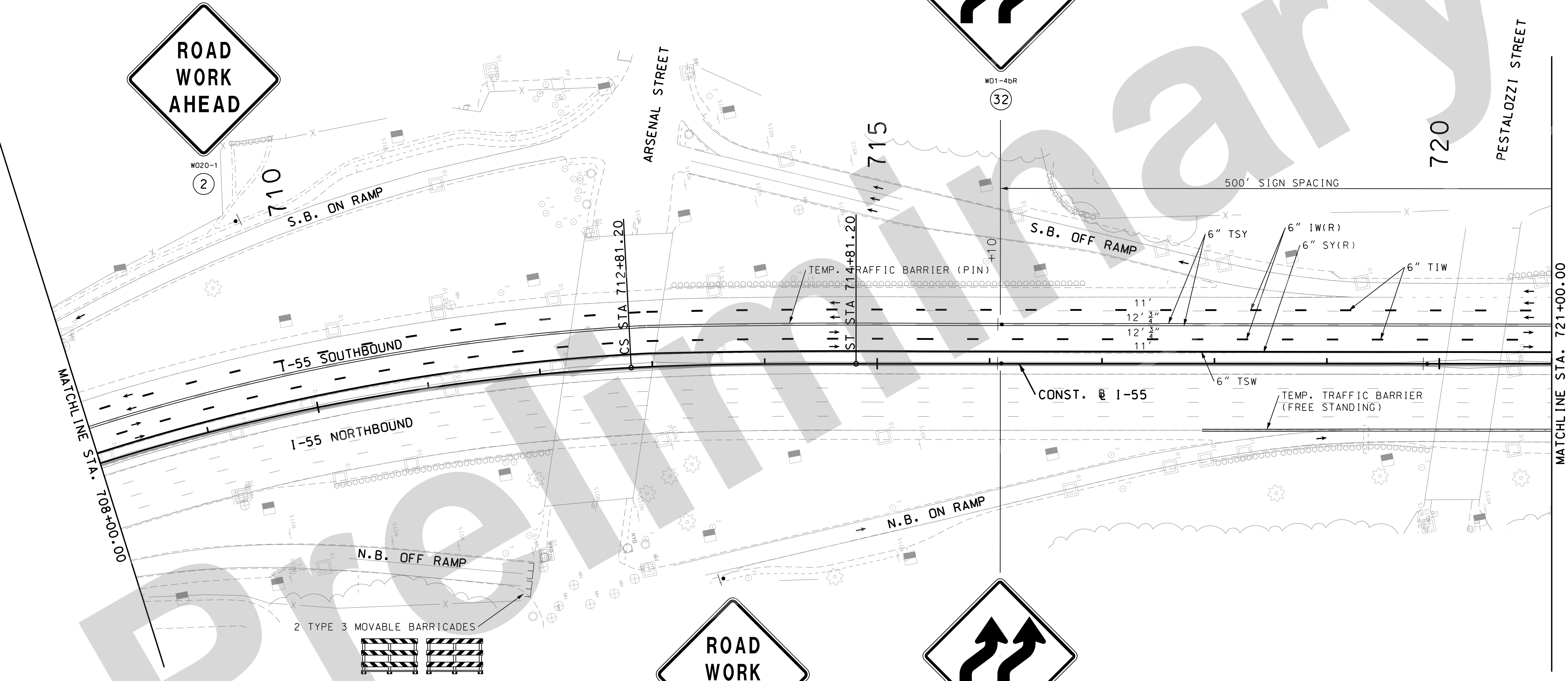
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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 99
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD



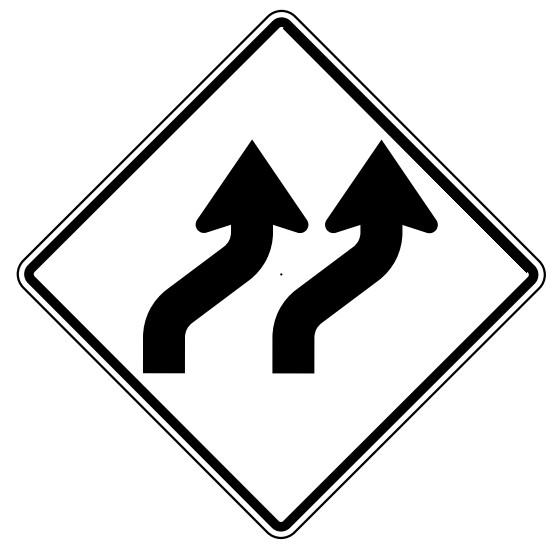
R11-2
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STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
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- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



W020-1
2



W01-4BR
32

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 12 OF 17

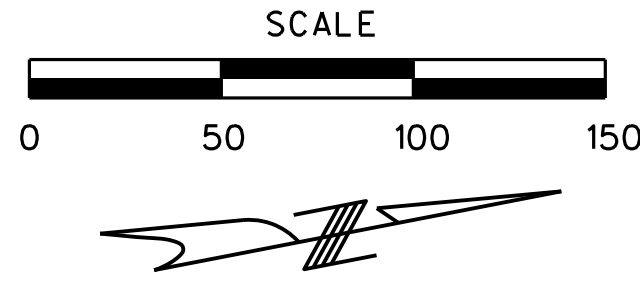
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

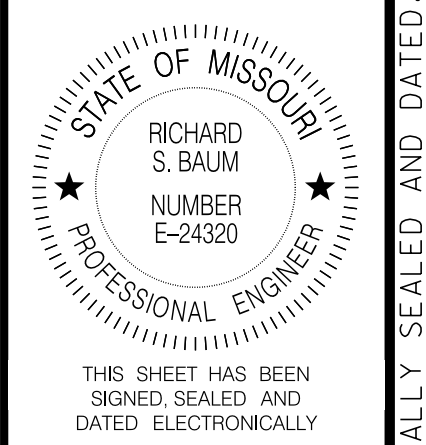
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

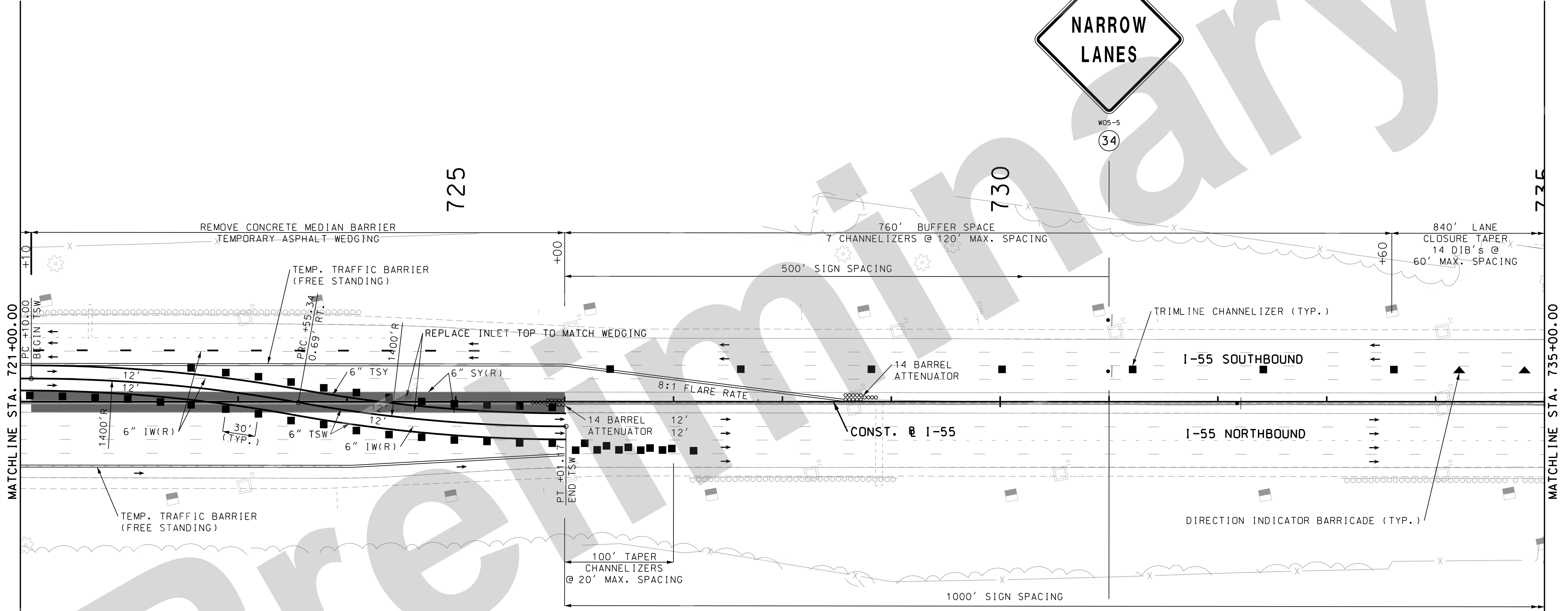
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 100
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

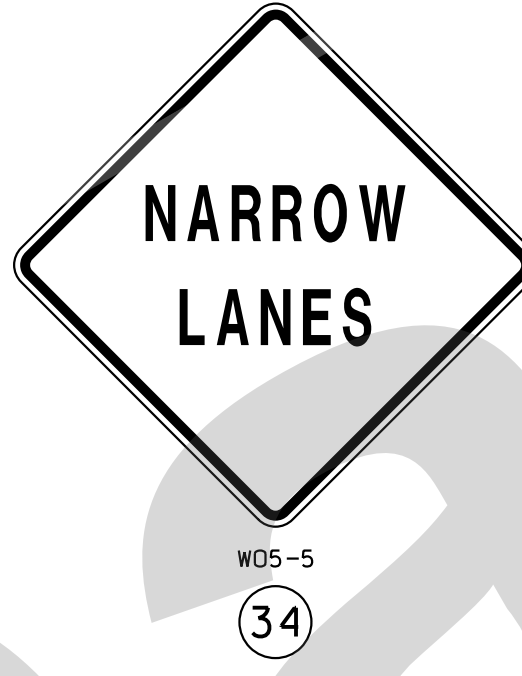


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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- TIW = TEMPORARY INTERMITTENT WHITE
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- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

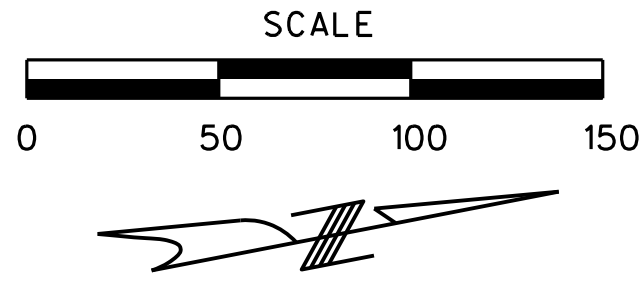
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

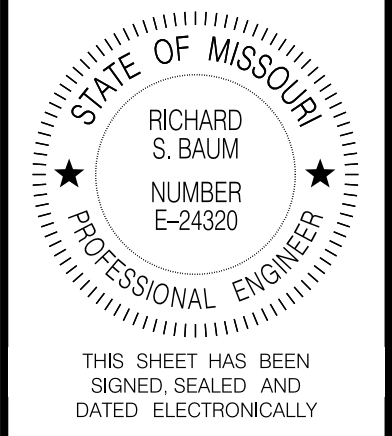
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 13 OF 17

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DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	101

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

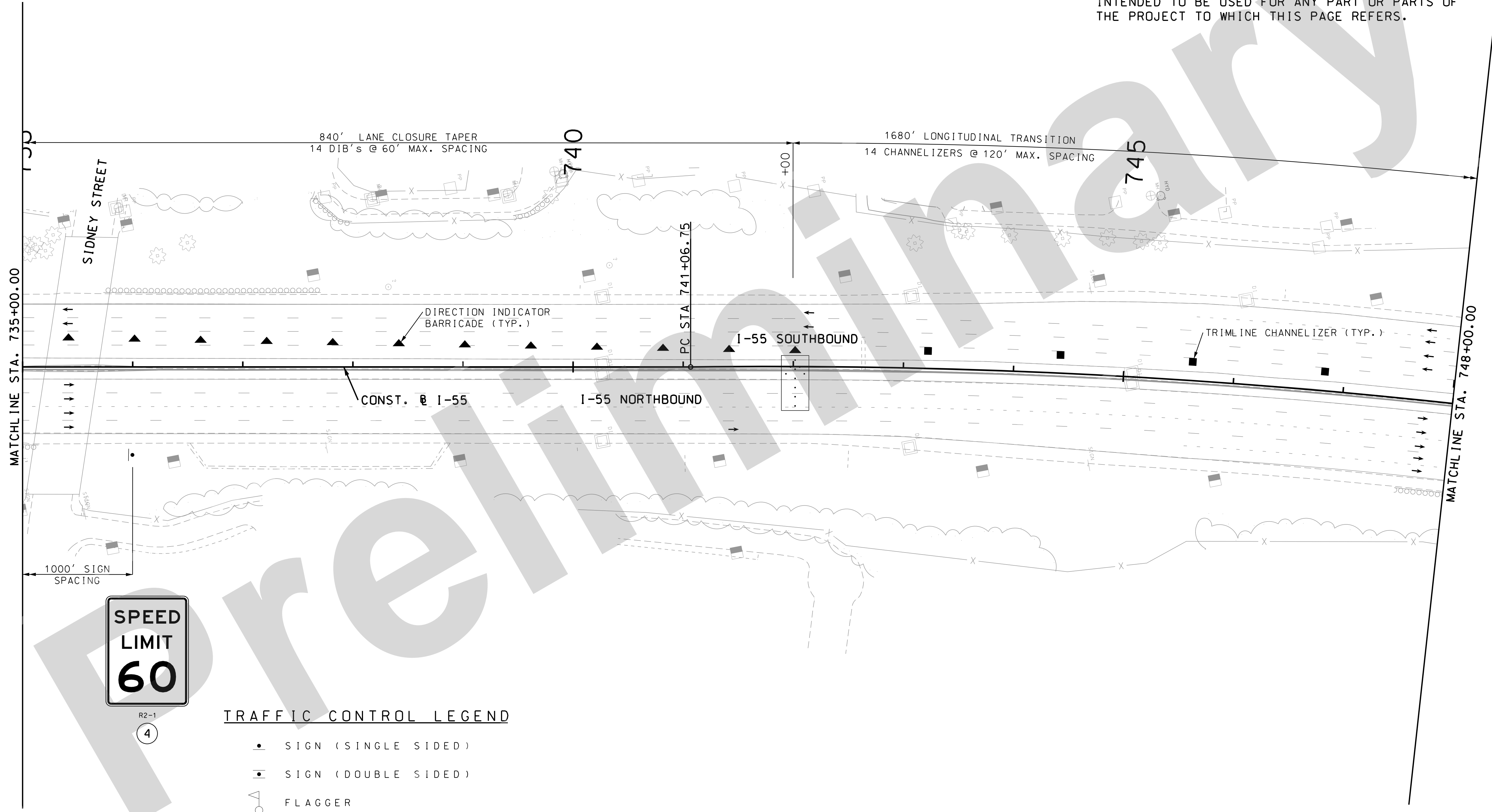
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

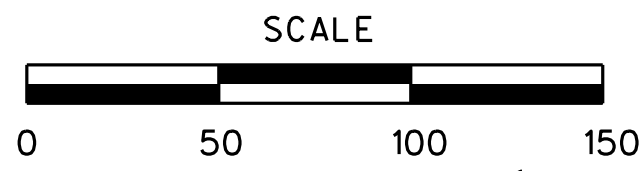
- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌌ BARRICADE
- ◻ ARROW BOARD
- ⌌ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

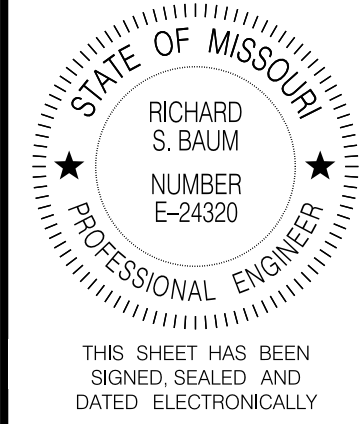
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- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 14 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 102

COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

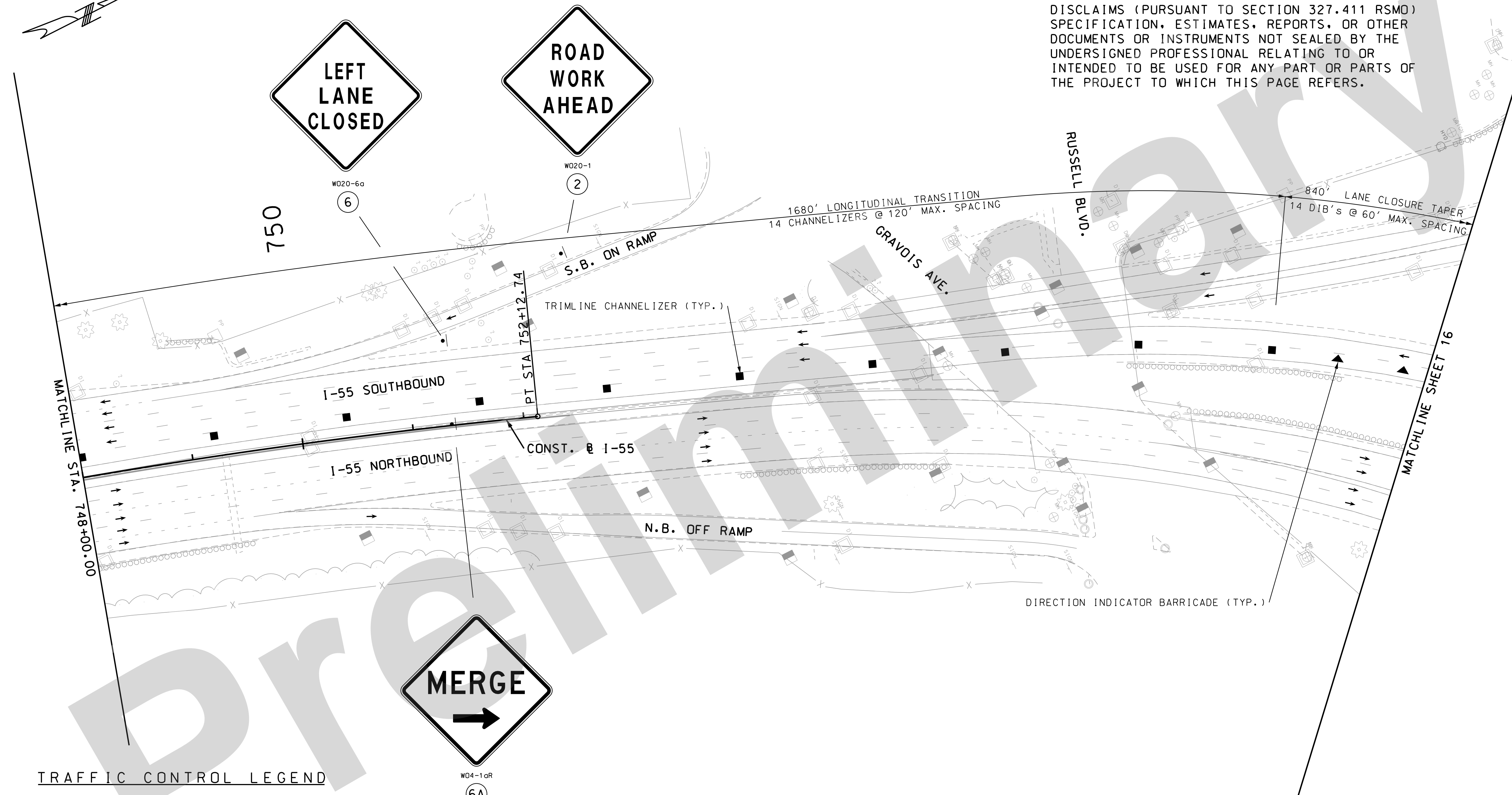
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
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 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 15 OF 17



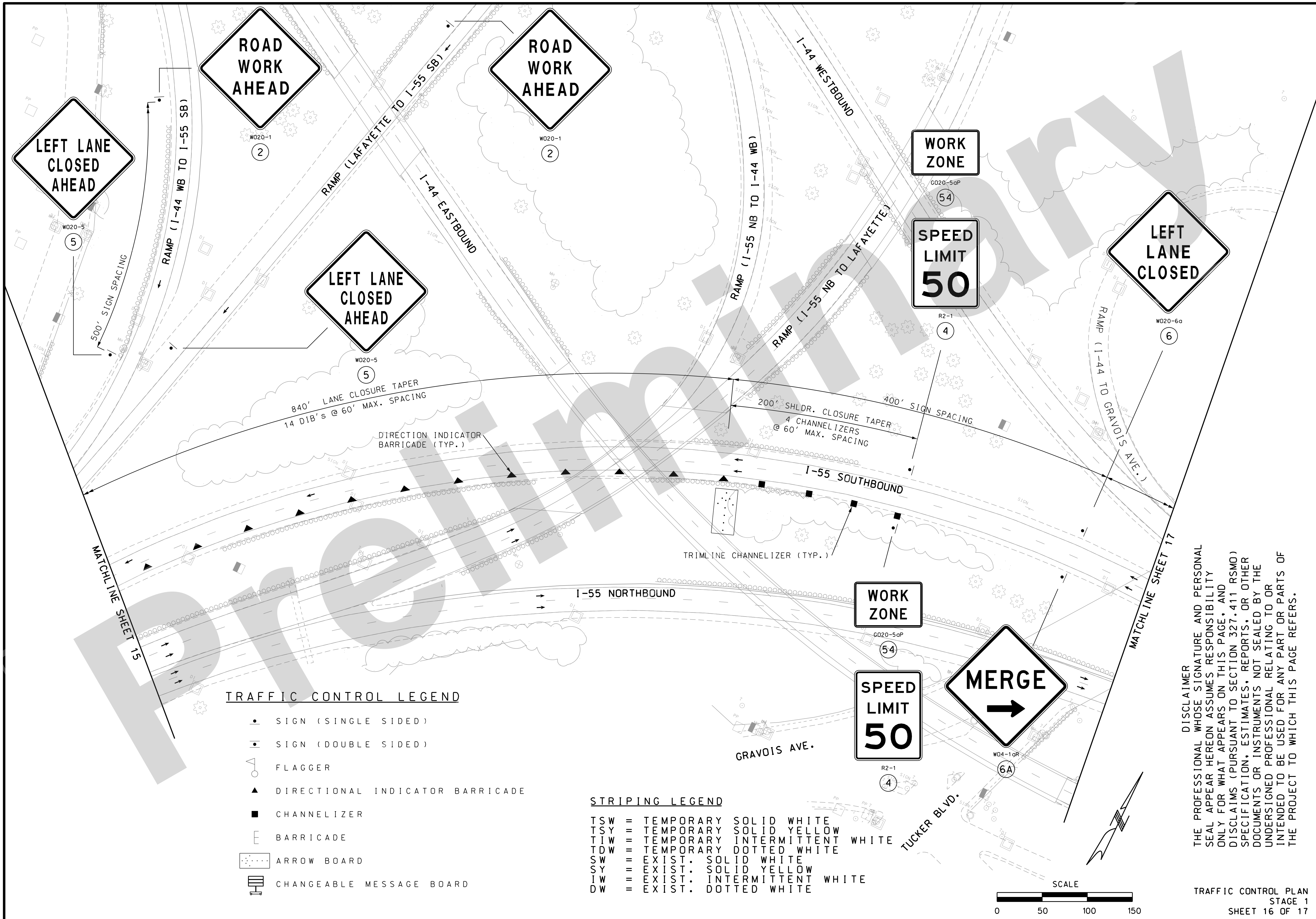
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
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TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⊢ BARRICADE
- ⋯ ARROW BOARD
- ⊞ CHANGEABLE MESSAGE BOARD

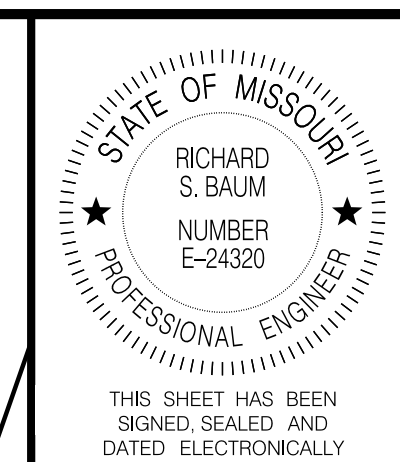
STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
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TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 16 OF 17



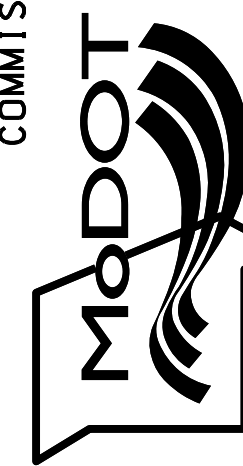
DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **103**
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

PROJECT NO.

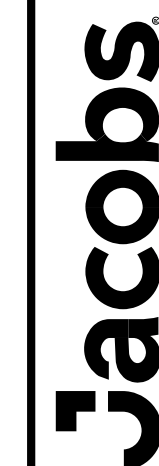
BRIDGE NO.

DESCRIPTION	DATE

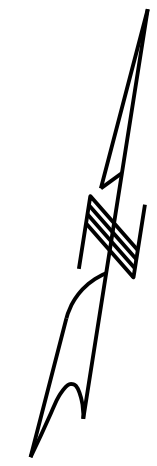
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



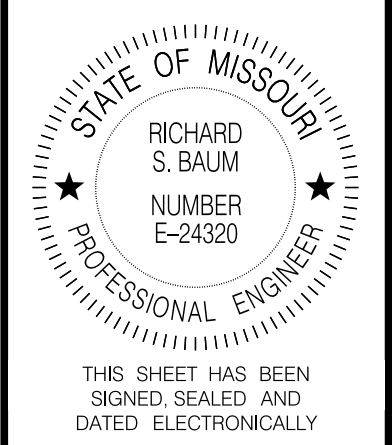
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)



JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

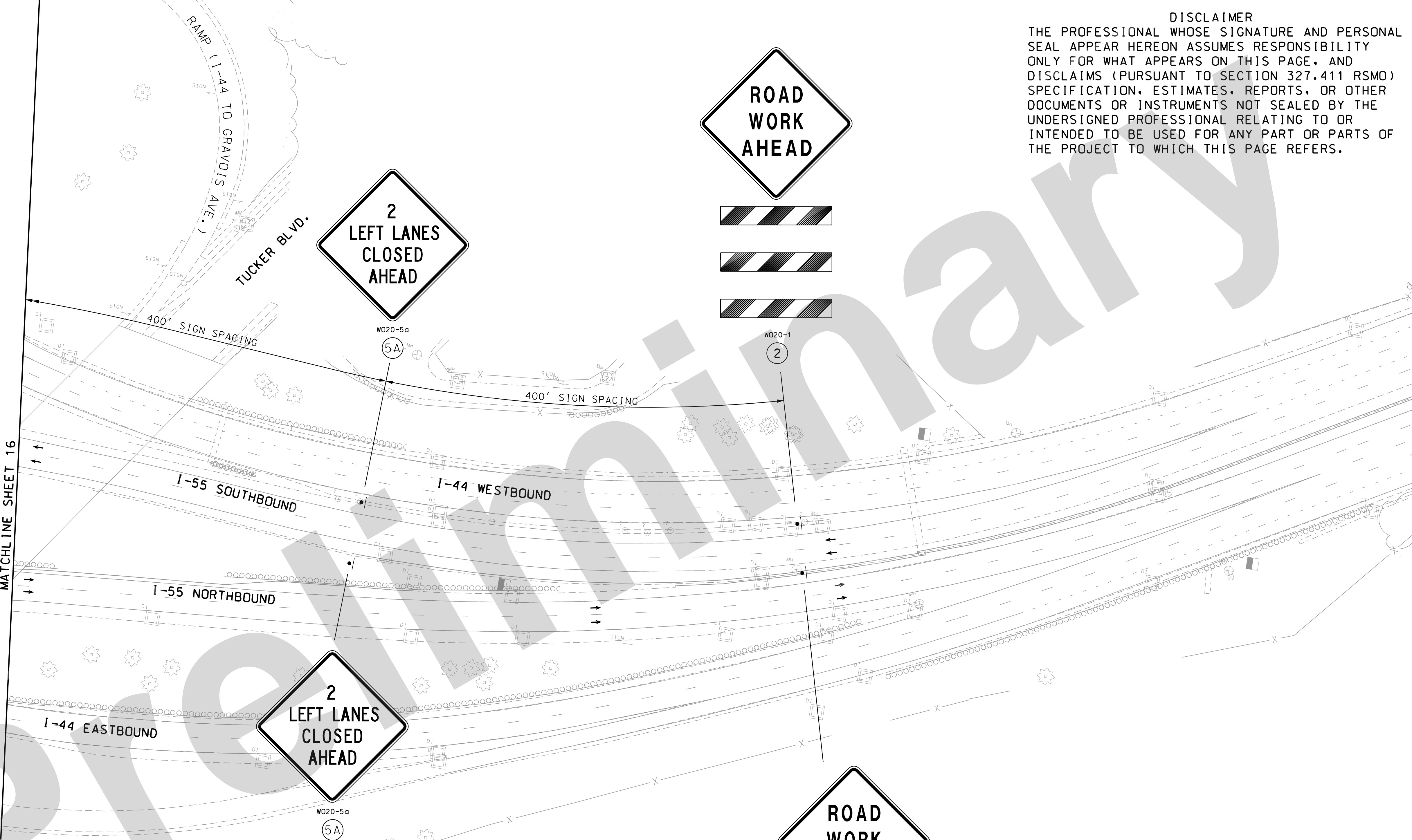


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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 104
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

MATCHLINE SHEET 16

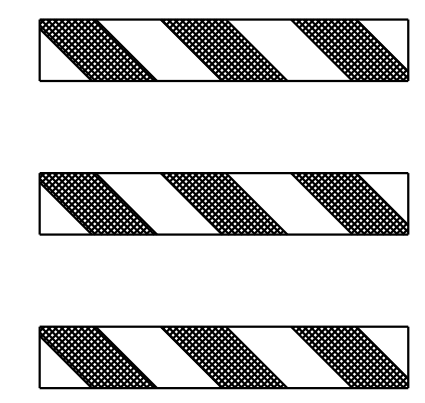


TRAFFIC CONTROL LEGEND

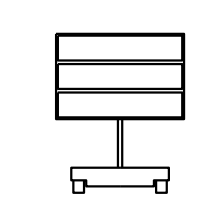
- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- △ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
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W020-1
2



PLACE 2 CHANGEABLE MESSAGE BOARDS FOR MESSAGES TO SOUTHBOUND TRAFFIC AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

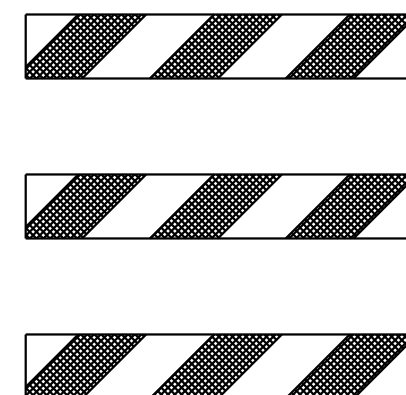
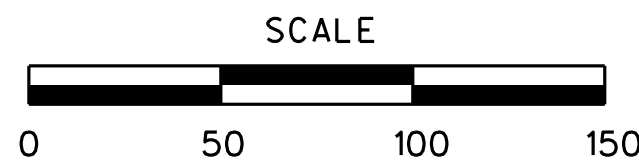
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

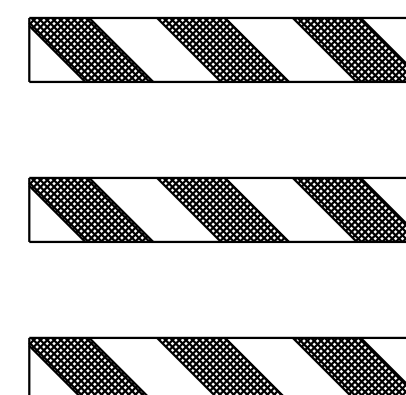
TRAFFIC CONTROL PLAN
 STAGE 1
 SHEET 17 OF 17

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



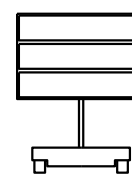
W020-1

2



W020-1

2



PLACE 2 CHANGEABLE MESSAGE BOARDS FOR MESSAGES TO NORTHBOUND TRAFFIC AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

WORK ON THIS STAGE:

OVERLAY NB I-55 BRIDGES A1079 (VIRGINIA AVE.), A1080 (BATES AVE.), A1082 (4500 S. BROADWAY) AND A1083 (GASCONADE ST.) OUTSIDE TWO LANES AND OUTSIDE SHOULDER.

REMOVE AND REPLACE GUARDRAIL ATTACHED TO I-55 BRIDGES A1079, A1080, A1082 AND A1083.

TCP GENERAL DESCRIPTION:

I-55 NB AND SB CLOSE TWO LEFT LANES AND SHIFT TO INSIDE FOR DECK OVERLAYS

ALL RAMP REMAIN OPEN

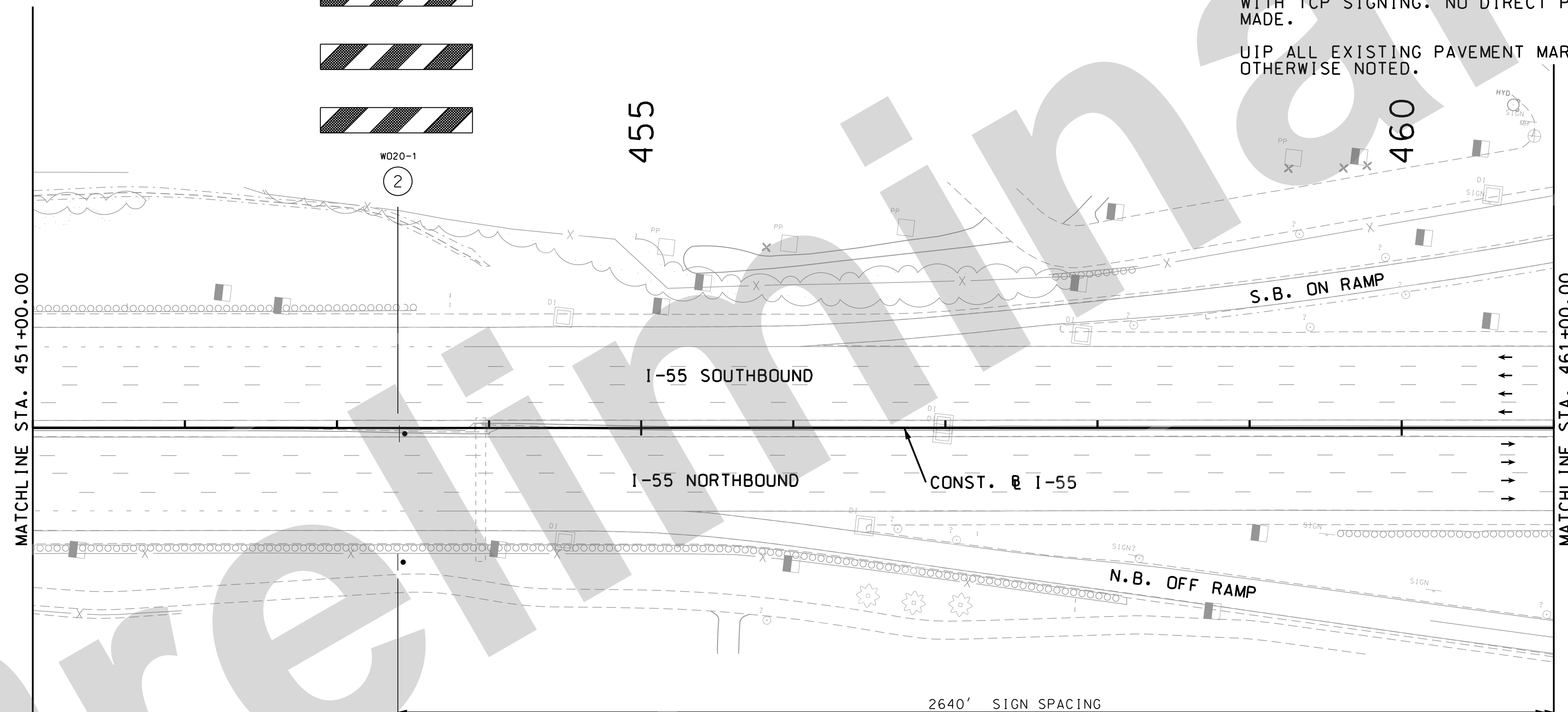
TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAYMENT WILL BE MADE.

UIP ALL EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.



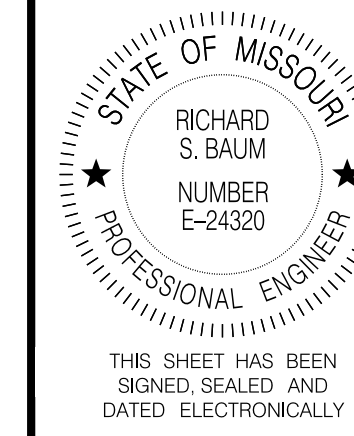
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 105

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

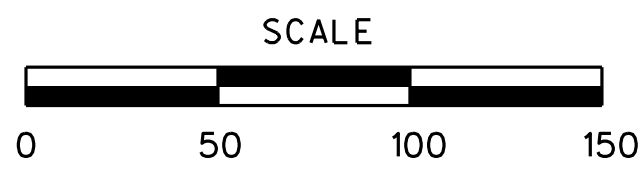
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

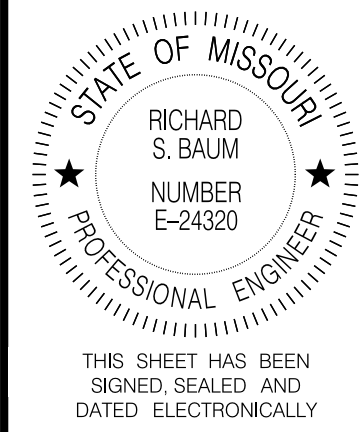
TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 1 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SCALE

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 106

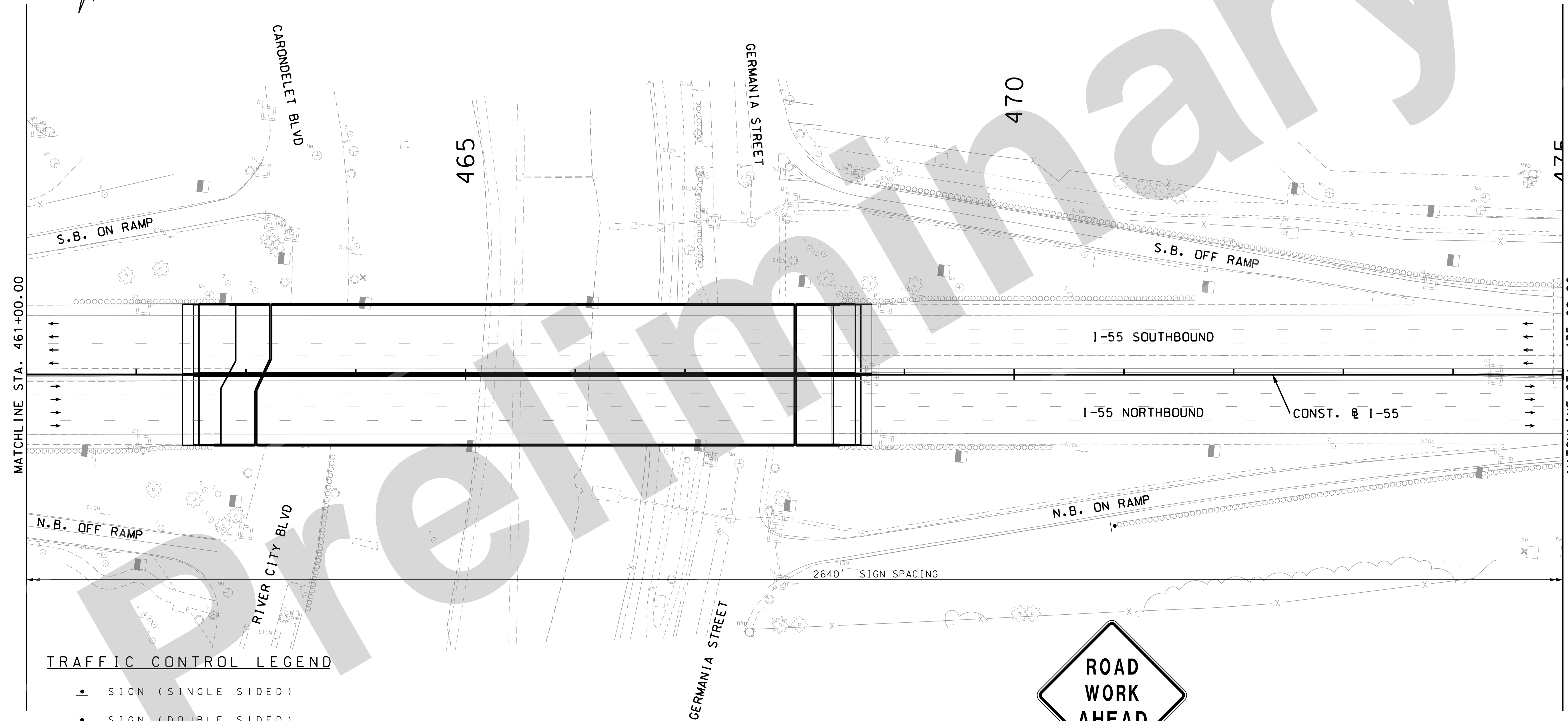
COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MATCHLINE STA. 461+00.00

MATCHLINE STA. 475+00.00

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
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W020-1
2

TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 2 OF 16

DATE	DESCRIPTION

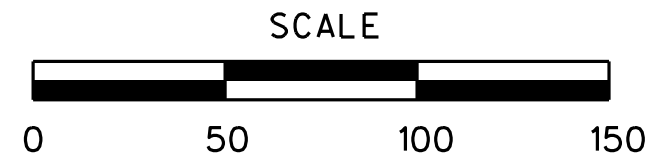
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



WD20-5a
(5A)

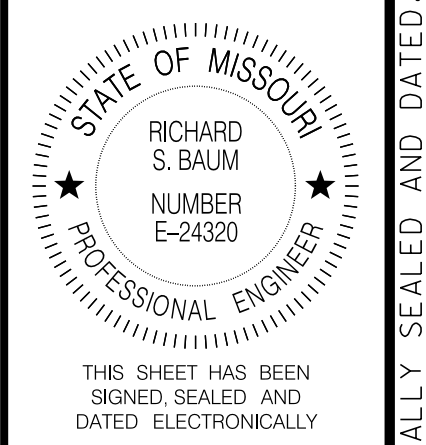
TRAFFIC CONTROL LEGEND

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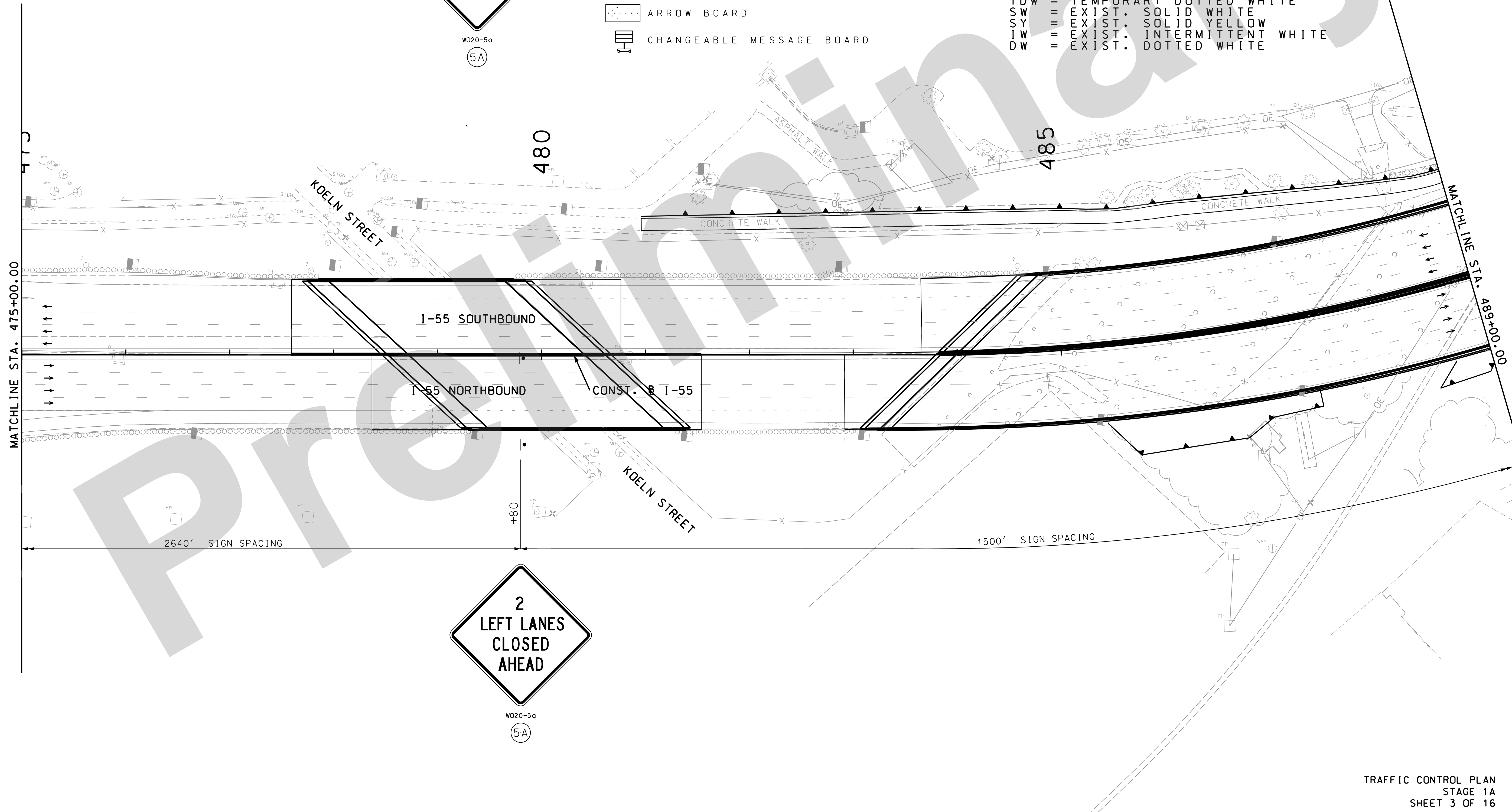
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DATE PREPARED 06-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 107
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



WD20-5a
(5A)

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

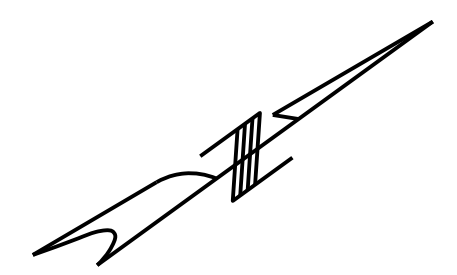
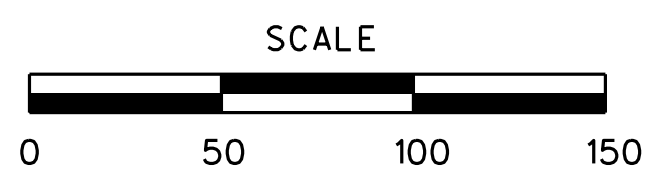
Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
STAGE 1A
SHEET 3 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

WORK ZONE
G020-50P
54
SPEED LIMIT 50
R2-1
4

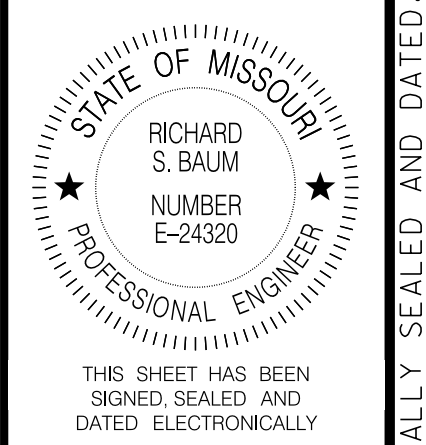


TRAFFIC CONTROL LEGEND

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DATE PREPARED
05-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 109

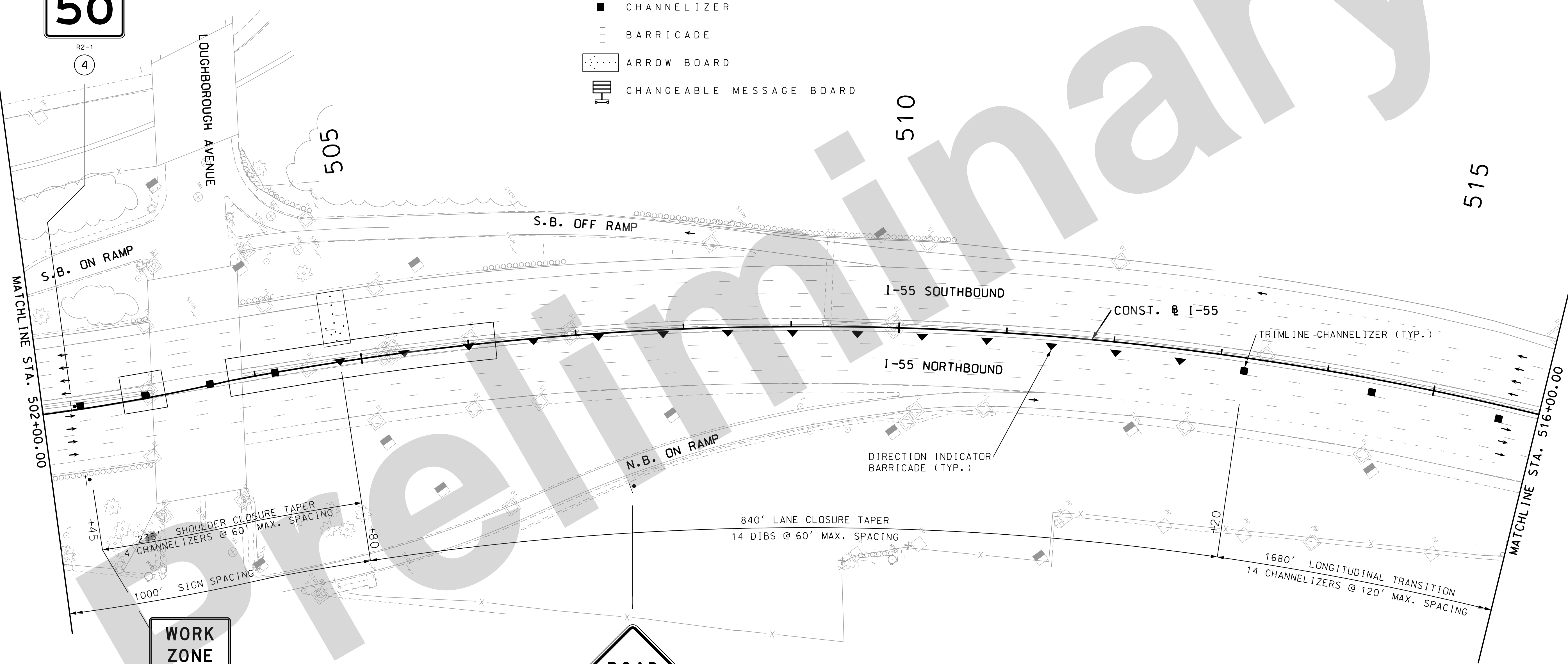
COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



WORK ZONE
G020-50P
54
SPEED LIMIT 50
R2-1
4



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TRAFFIC CONTROL PLAN
STAGE 1A
SHEET 5 OF 16

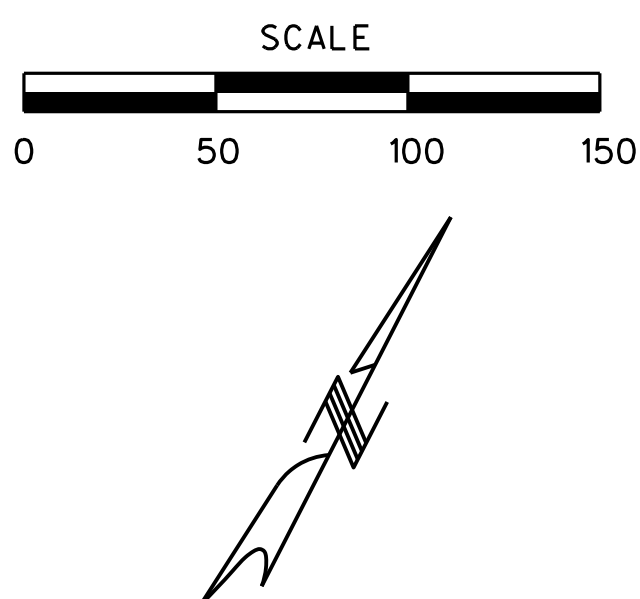
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

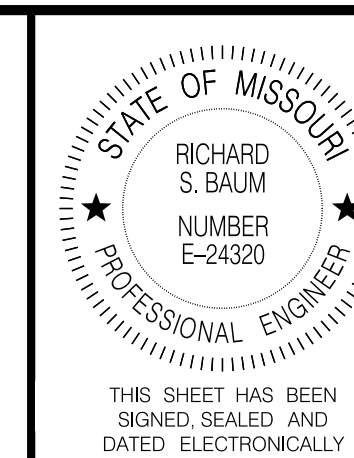
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
 05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	110

COUNTY
 ST. LOUIS CITY

JOB NO.
 J613149
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

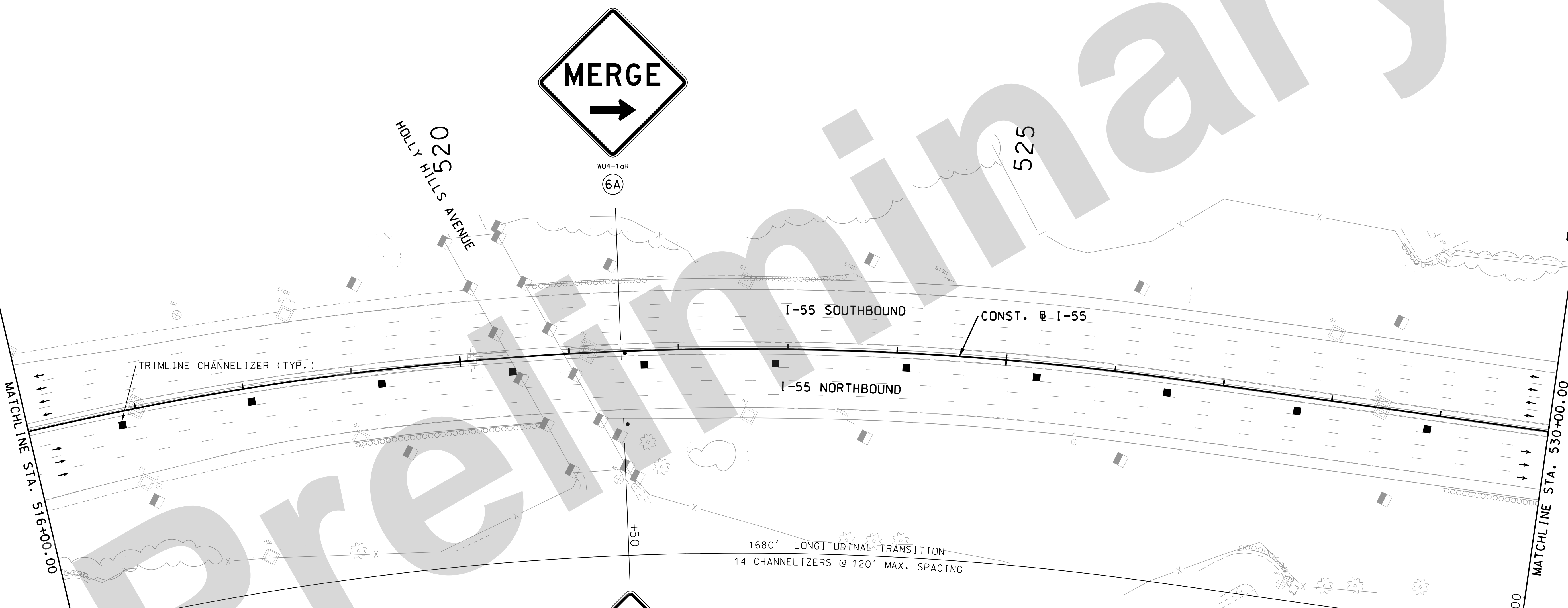
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
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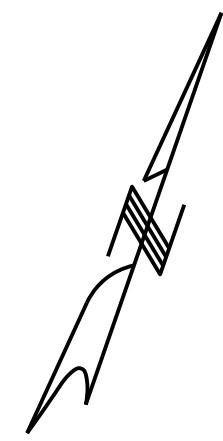
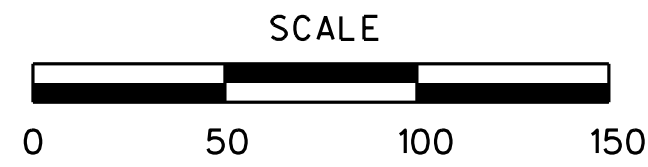
TRAFFIC CONTROL LEGEND

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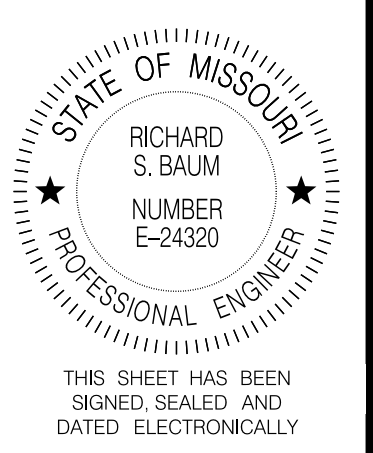
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TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 6 OF 16

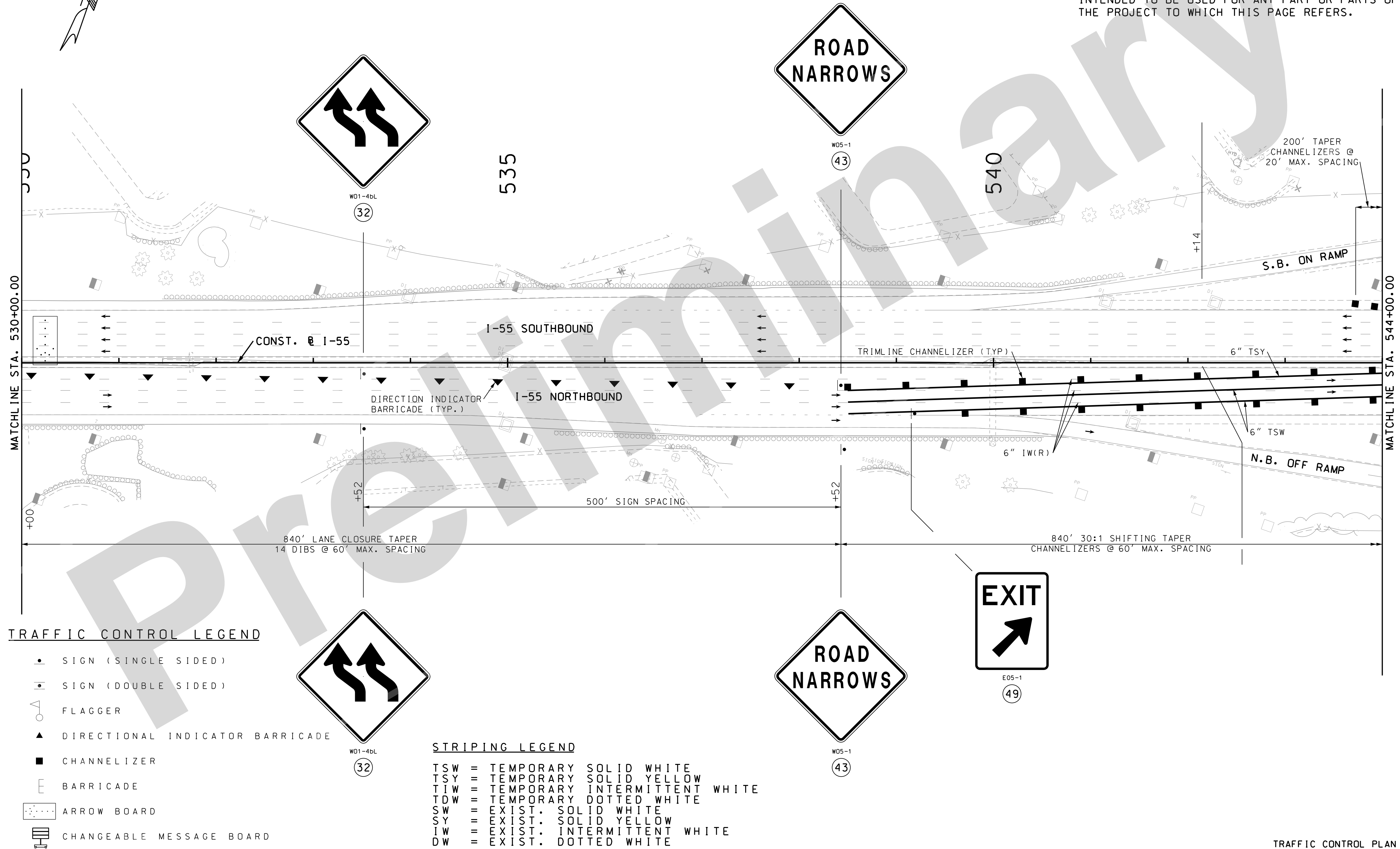


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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 111
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.



TRAFFIC CONTROL LEGEND

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

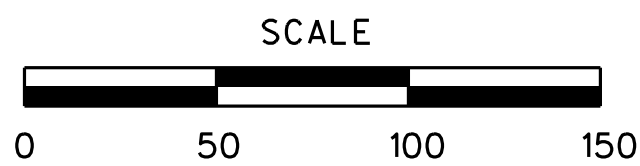


Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

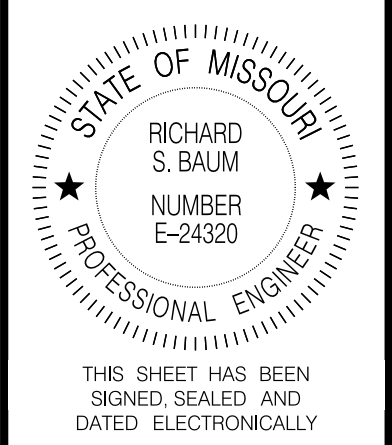
TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 7 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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NOTE: THE CONTRACTOR SHALL SHIFT THE TRAFFIC CONTROL AS NECESSARY TO CONSTRUCT THE BRIDGE APPROACH SLAB AND PAVEMENT.



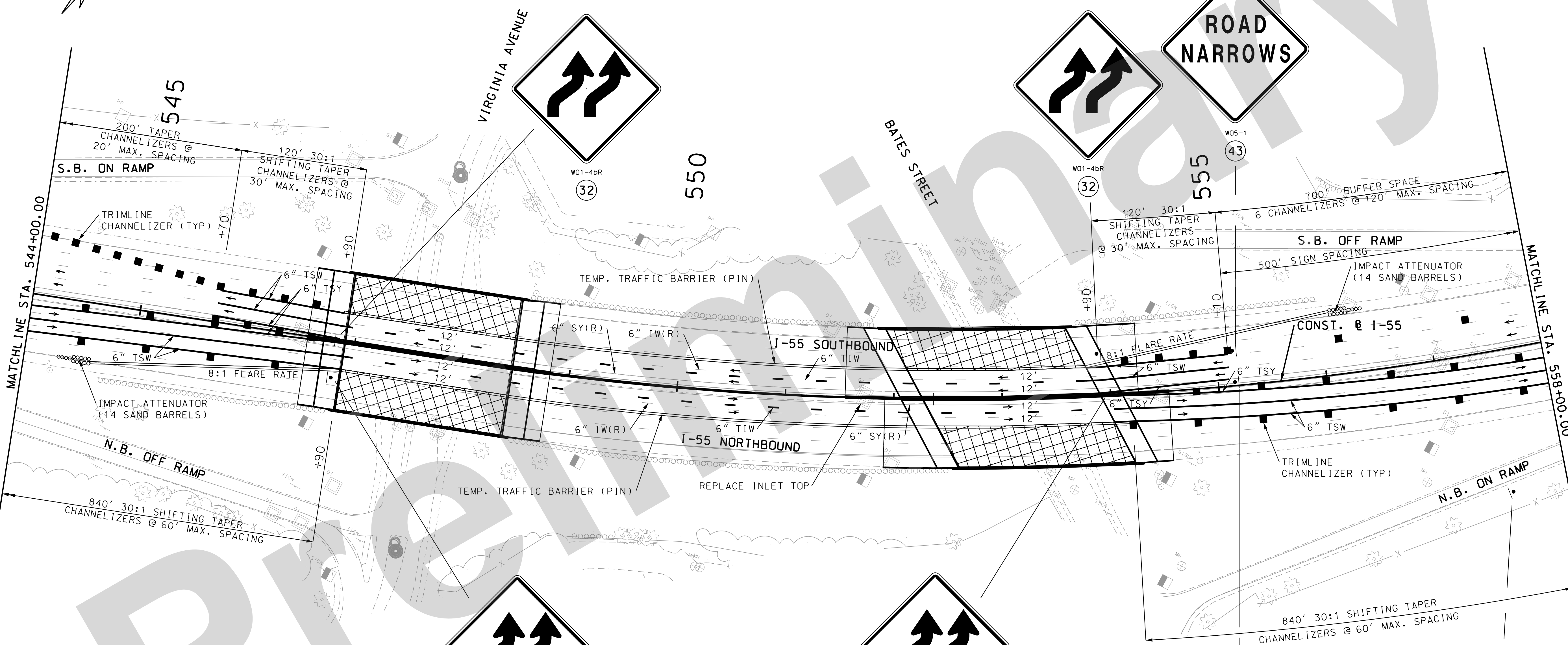
DATE PREPARED
 05-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT SL SHEET NO. 112
 COUNTY ST. LOUIS CITY
 JOB NO. J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



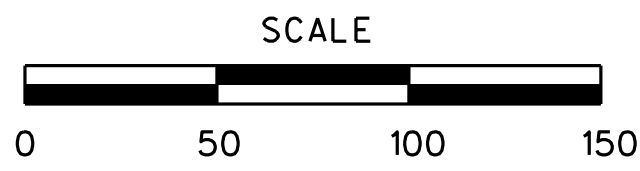
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

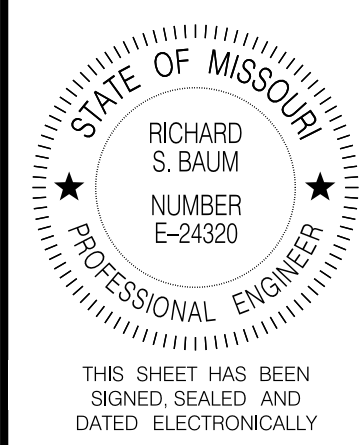
STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

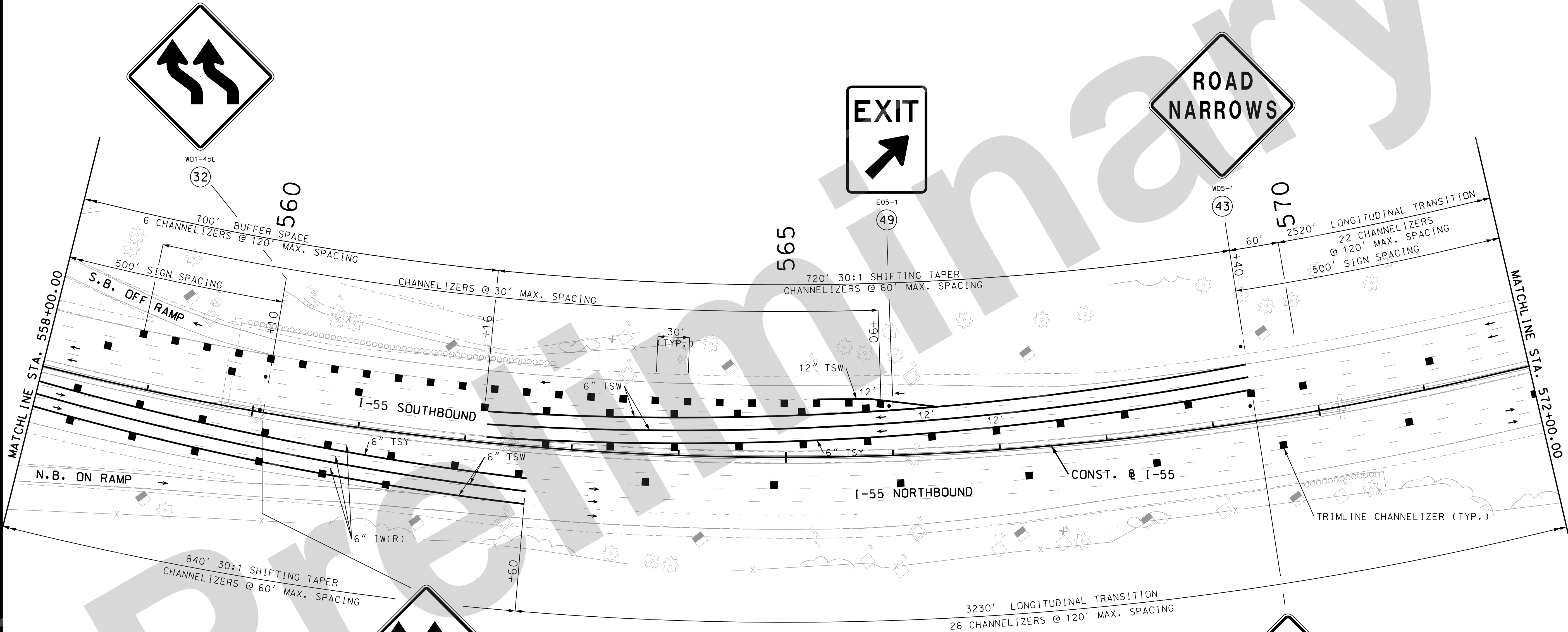
TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 8 OF 16



DISCLAIMER
 THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 113
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

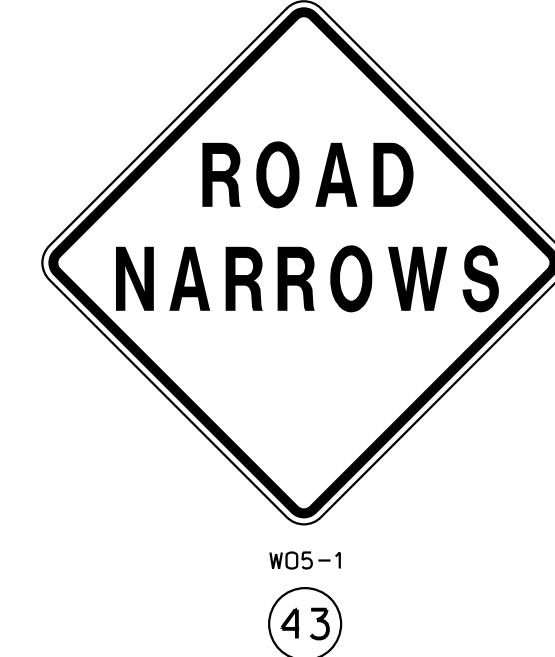
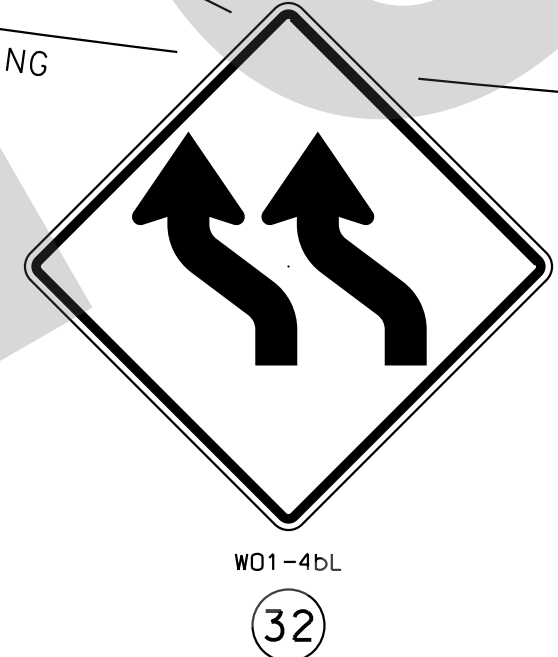


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
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- ▲ DIRECTIONAL INDICATOR BARRICADE
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STRIPING LEGEND

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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

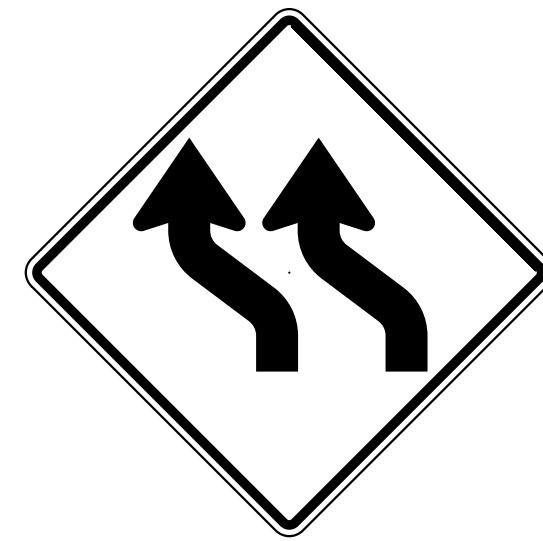
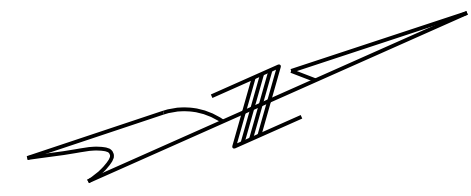
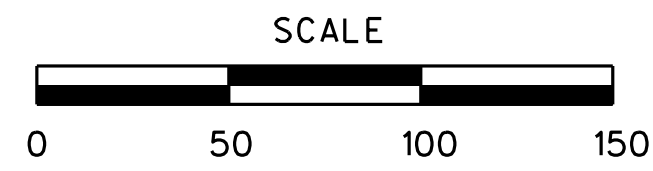
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 9 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

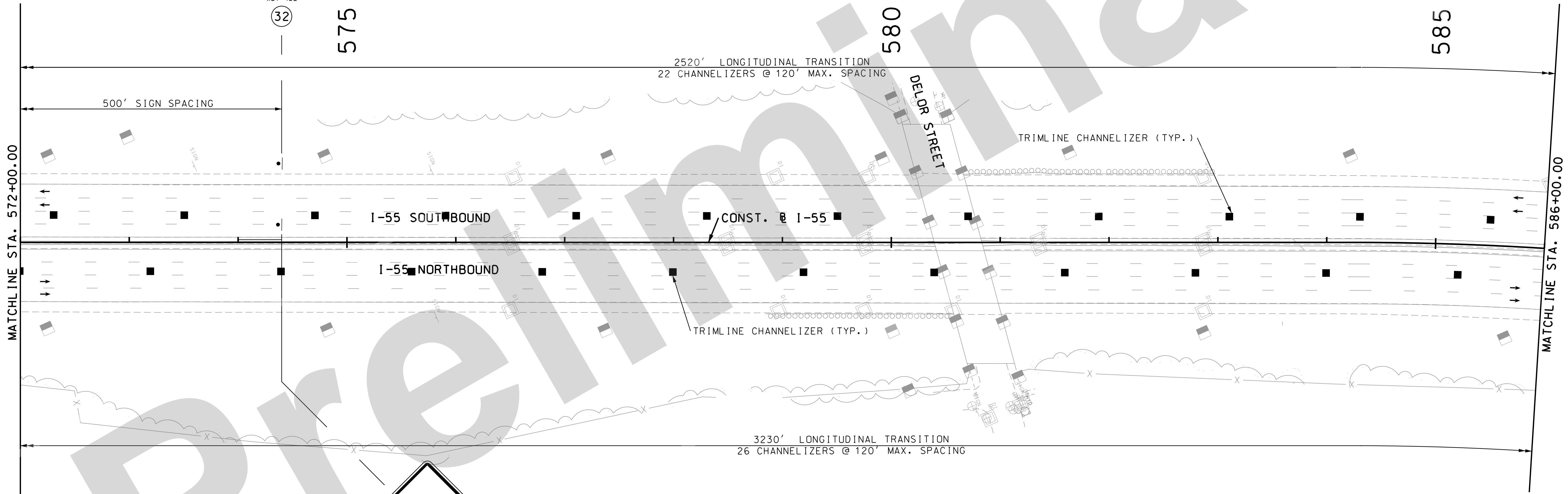


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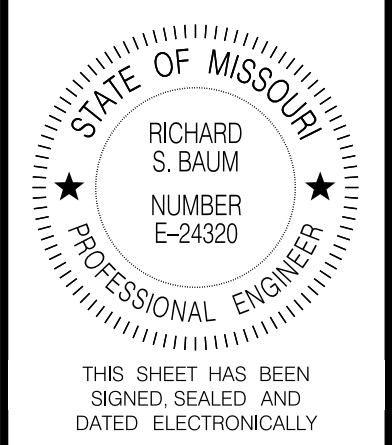
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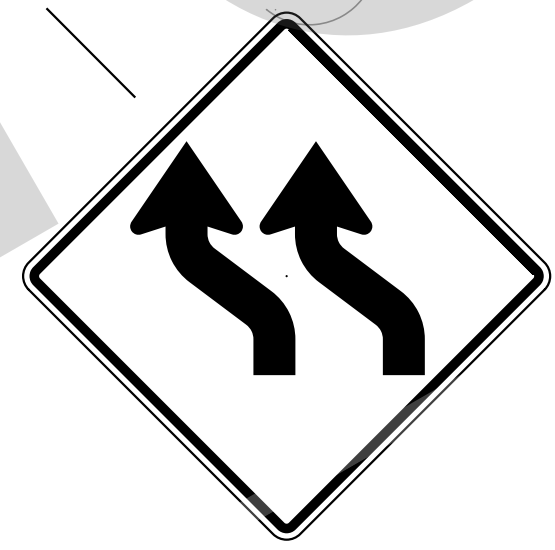
DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 114
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
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W01-4bL
32

STRIPING LEGEND

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TRAFFIC CONTROL PLAN
STAGE 1A
SHEET 10 OF 16

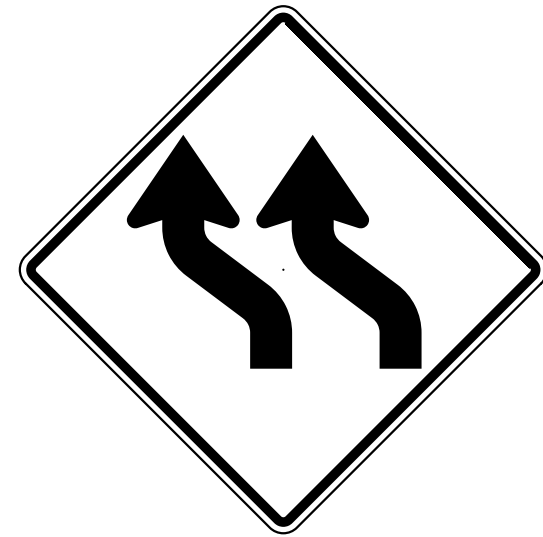
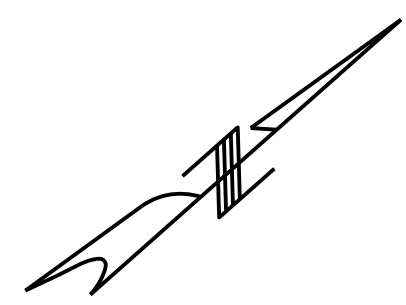
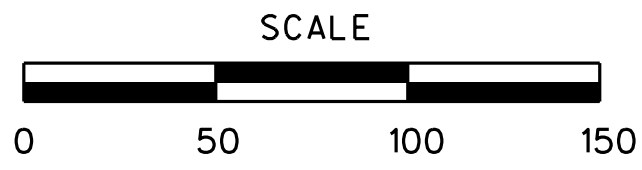
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

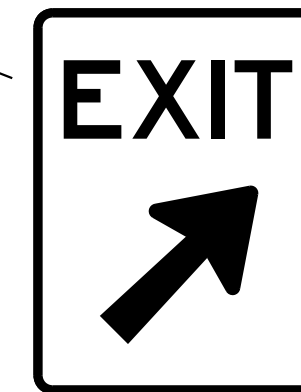
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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(32)

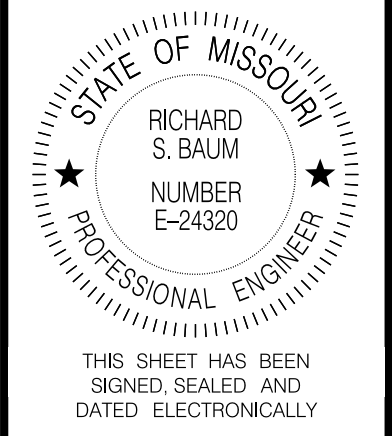


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E05-1
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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 115

COUNTY
ST. LOUIS CITY
JOB NO.
J613149
CONTRACT ID.

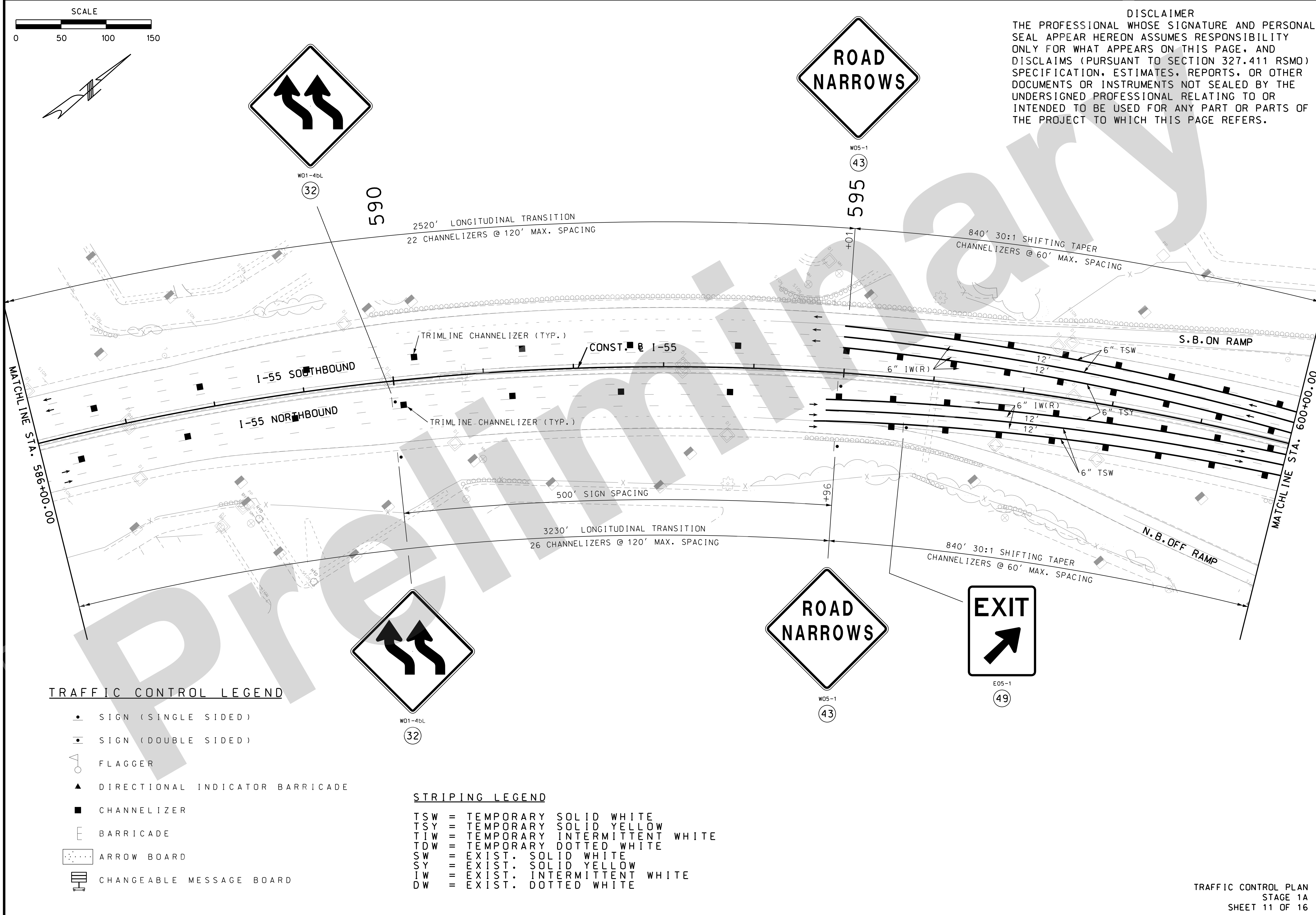
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 11 OF 16



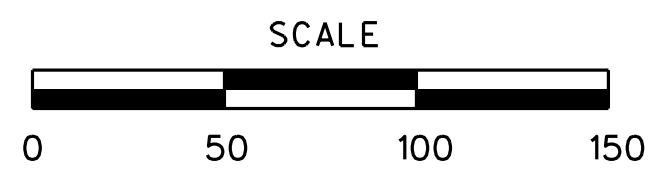
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

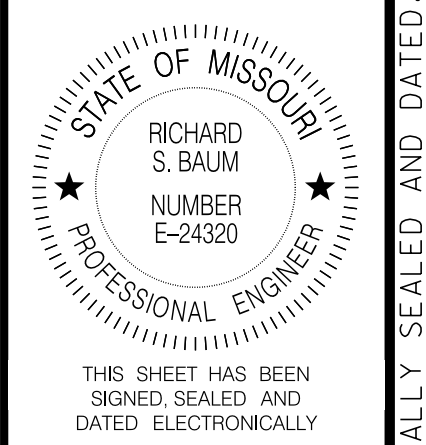
STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
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- DW = EXIST. DOTTED WHITE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE: THE CONTRACTOR SHALL SHIFT THE TRAFFIC CONTROL AS NECESSARY TO CONSTRUCT THE BRIDGE APPROACH SLAB AND PAVEMENT.



DATE PREPARED
05-AUG-2021
ROUTE I-55 STATE MO
DISTRICT SL SHEET NO. 116
COUNTY ST. LOUIS CITY
JOB NO. J613149
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

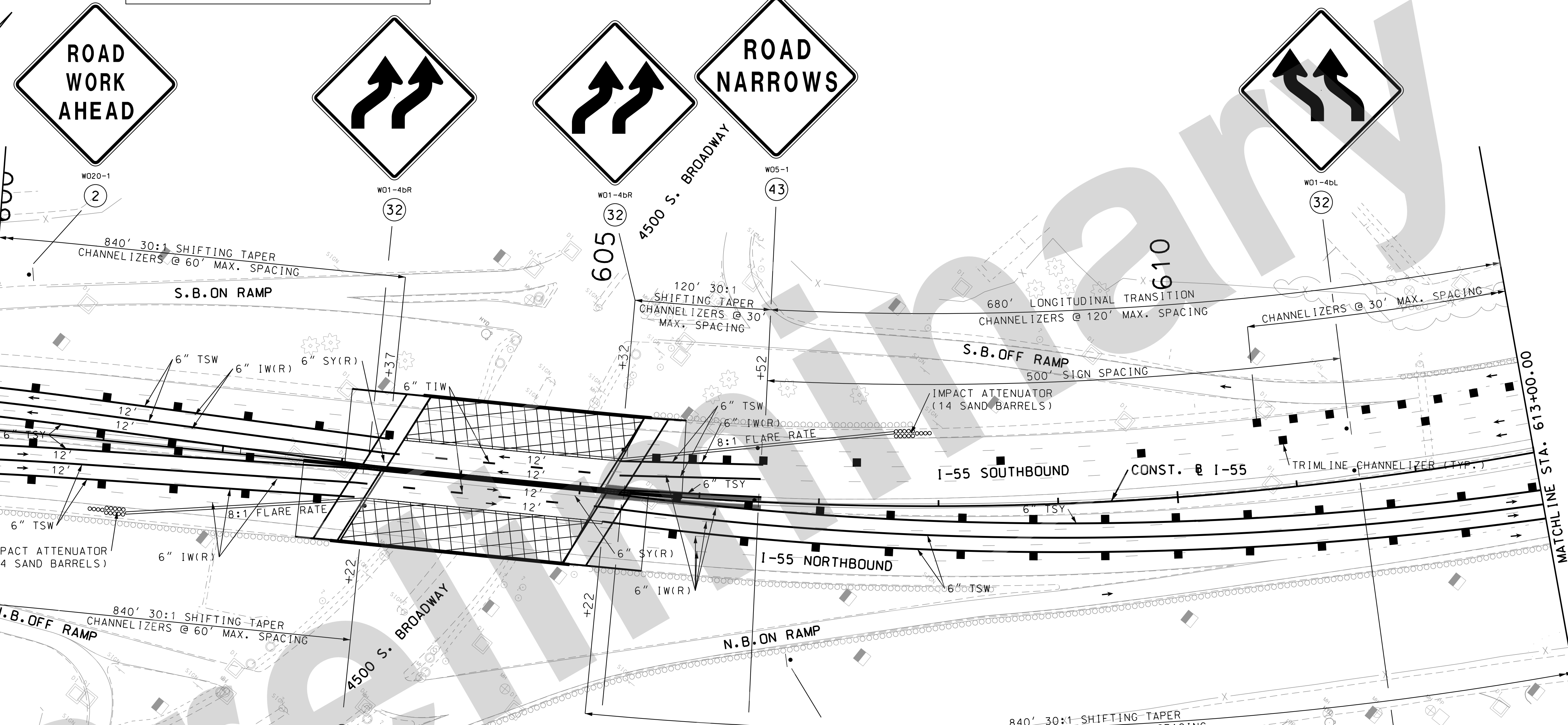
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



TRAFFIC CONTROL LEGEND

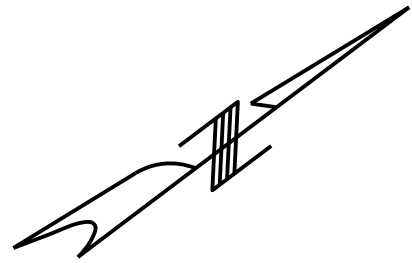
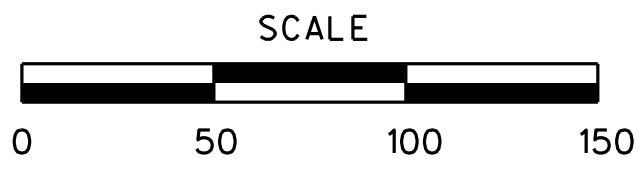
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- ◻ BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

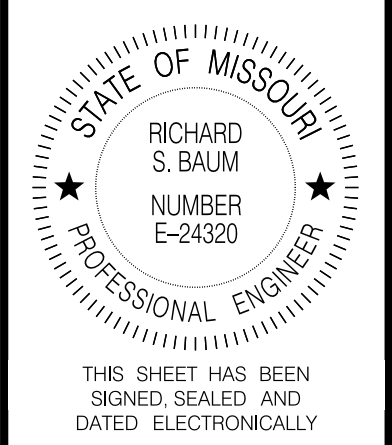
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TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 12 OF 16



DISCLAIMER
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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 117
 COUNTY
ST. LOUIS CITY
 JOB NO.
J613149
 CONTRACT ID.

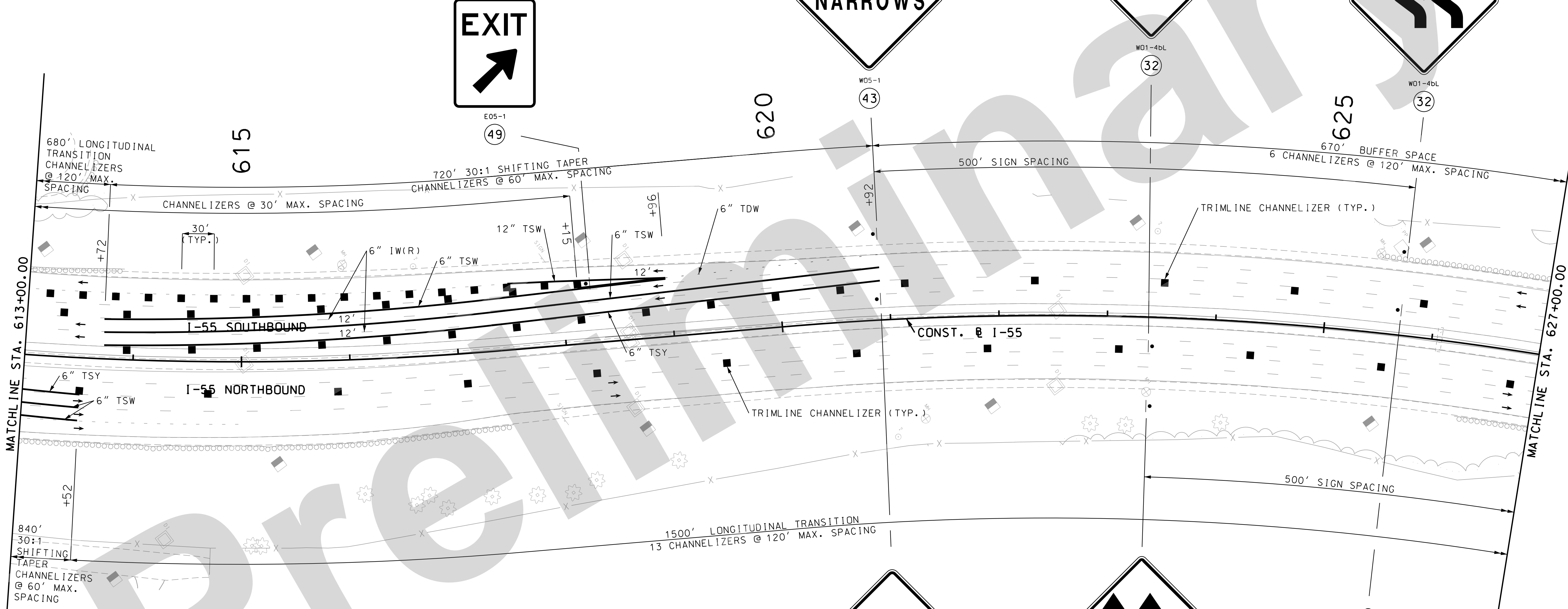
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



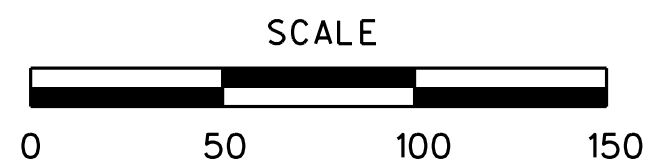
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

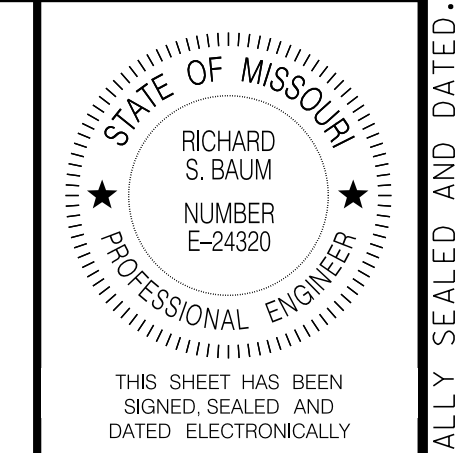
- TSW = TEMPORARY SOLID WHITE
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IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED: 05-AUG-2021
ROUTE: I-55 STATE: MO
DISTRICT: SL SHEET NO.: 118
COUNTY: ST. LOUIS CITY
JOB NO.: J613149
CONTRACT ID.:

PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

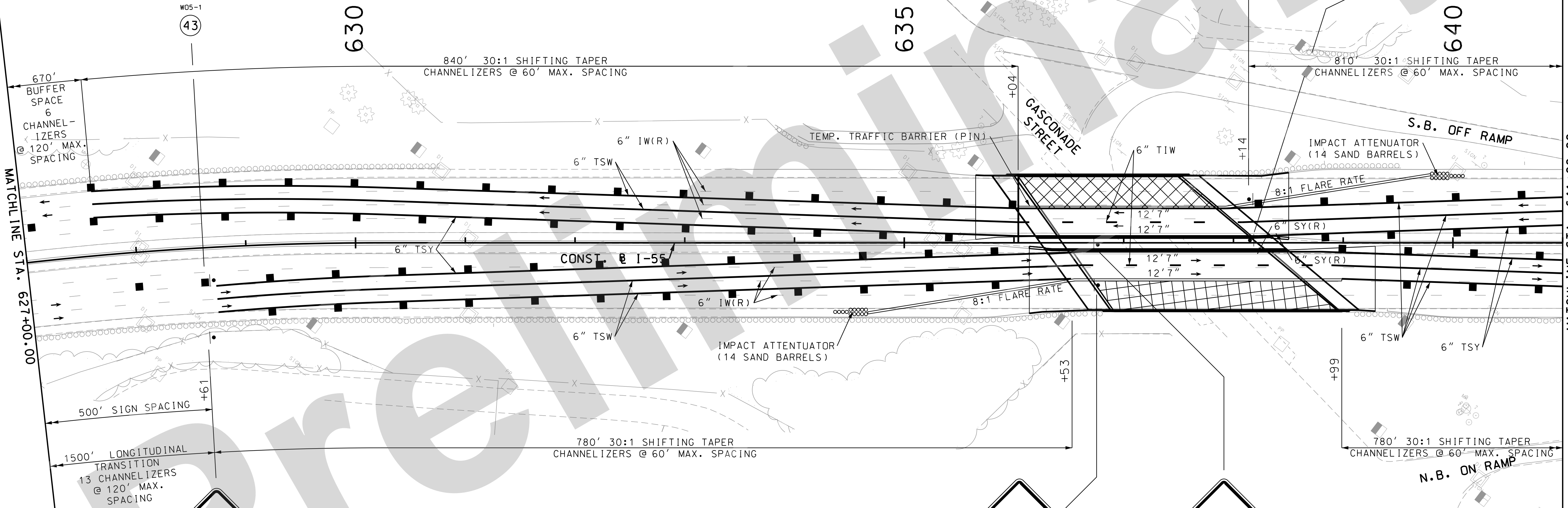
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
STAGE 1A
SHEET 14 OF 16



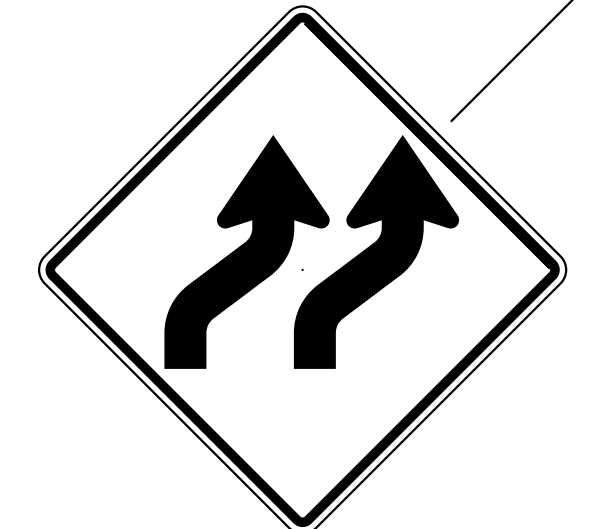
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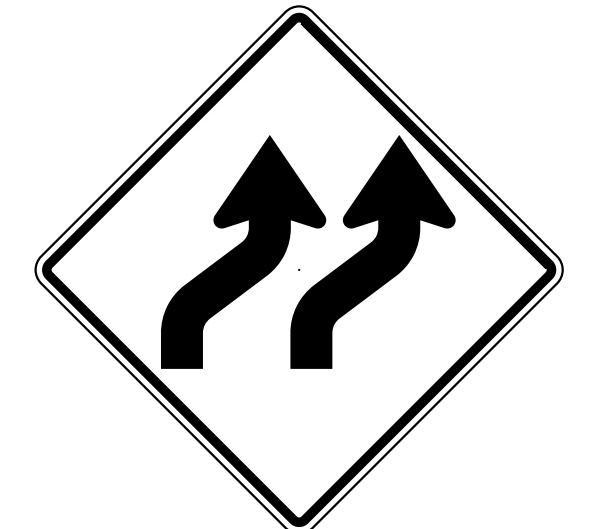
W05-1
43

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
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- ☐ CHANGEABLE MESSAGE BOARD



W01-4bR
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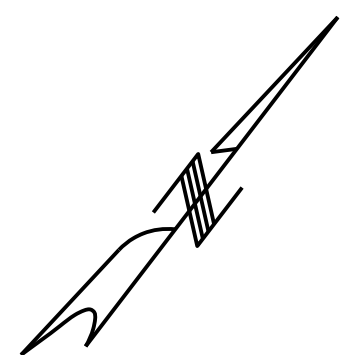
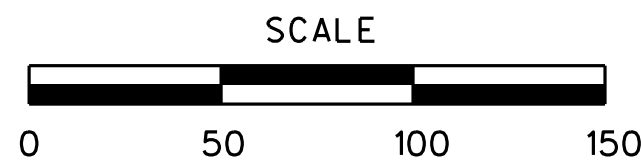


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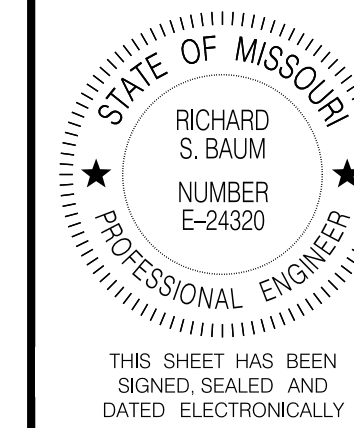
STRIPING LEGEND

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 119

COUNTY
 ST. LOUIS CITY
 JOB NO.
 J613149
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE	DESCRIPTION

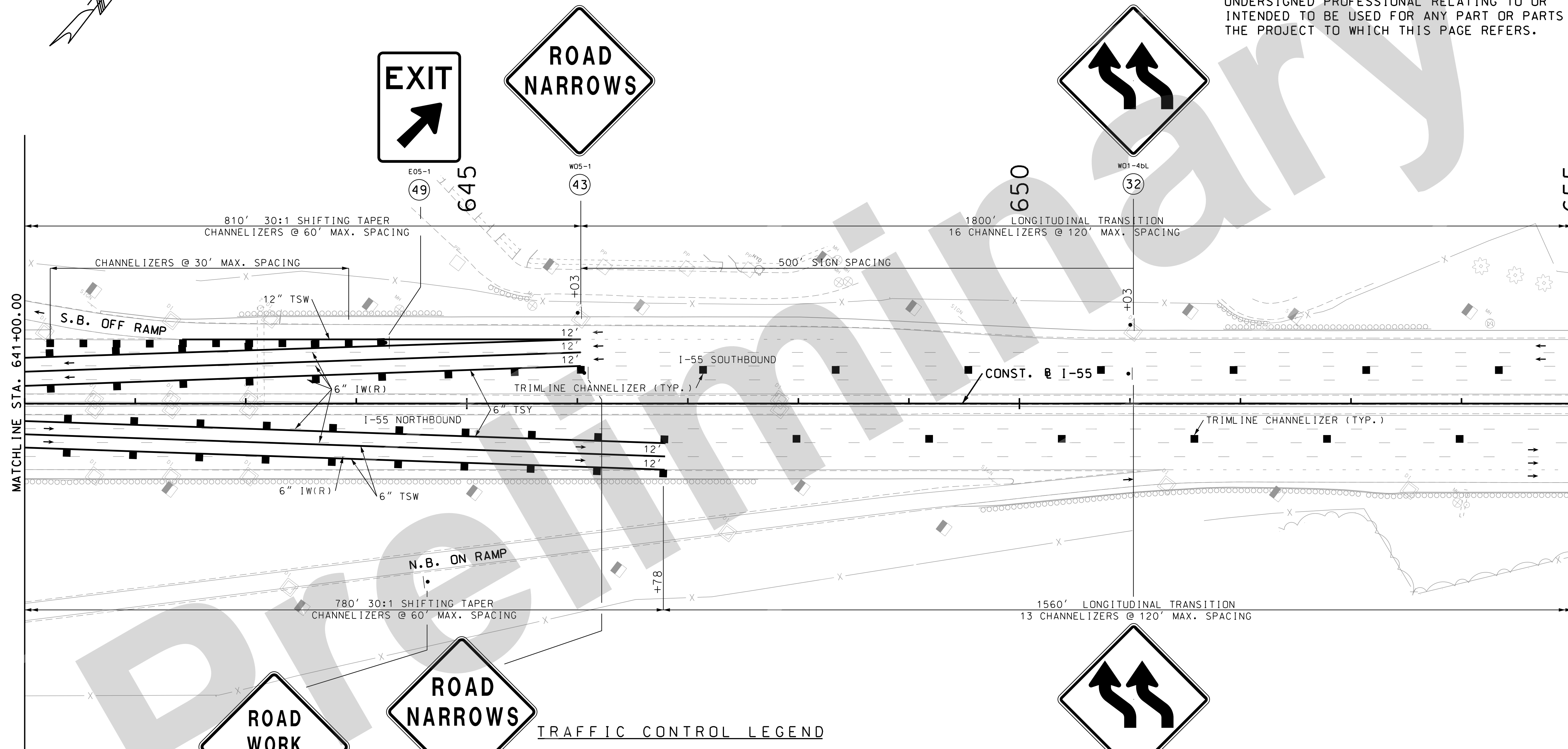
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



JACOBS

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

REVISIONS



TRAFFIC CONTROL LEGEND

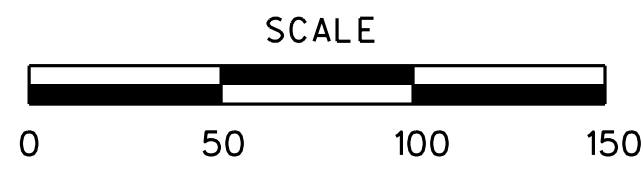
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STRIPING LEGEND

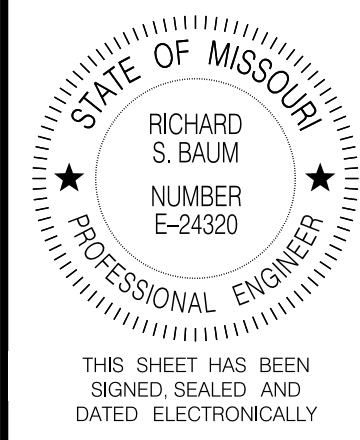
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TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 15 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 120

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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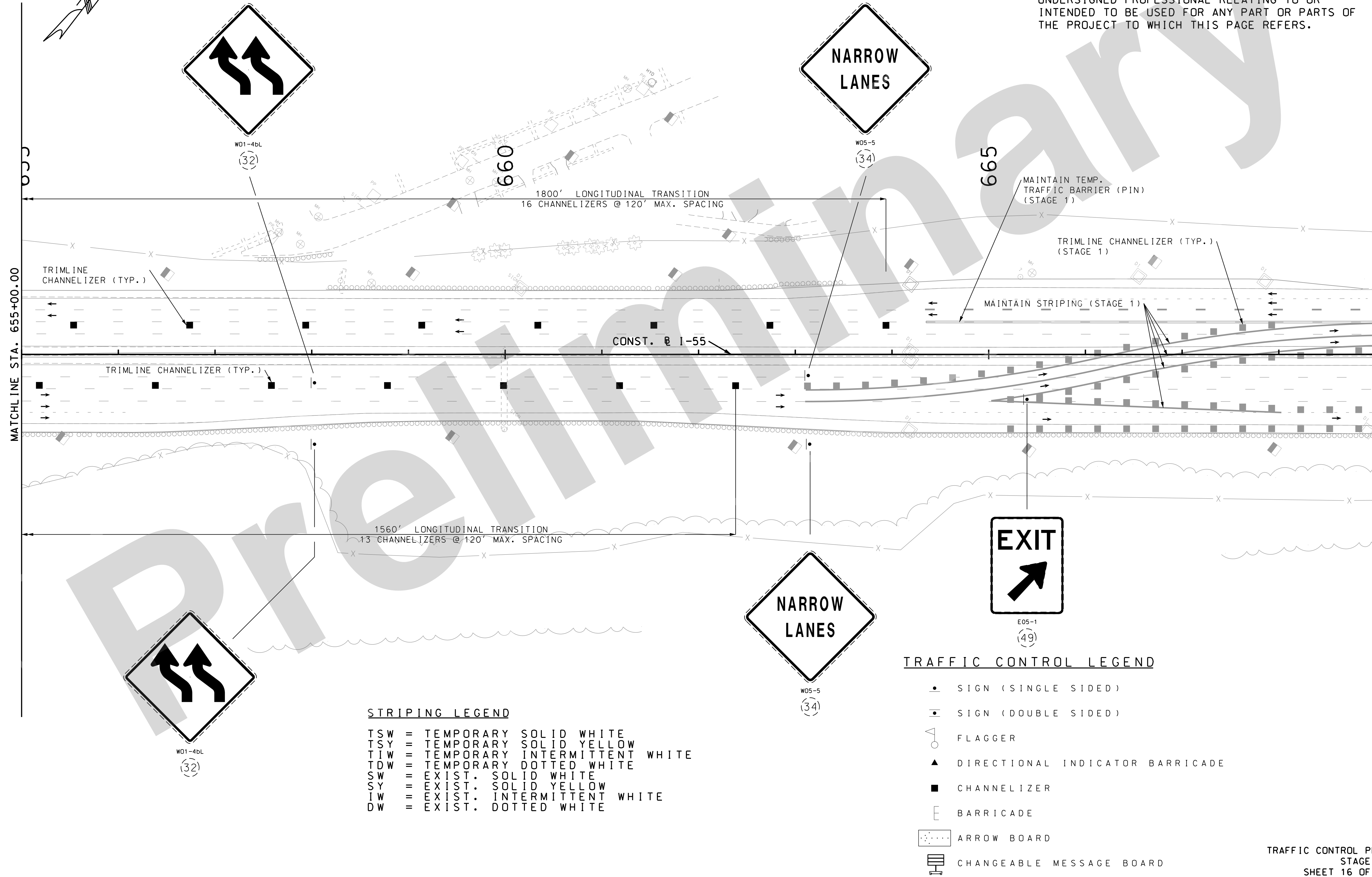
DESCRIPTION

DATE

DESCRIPTION

DATE

REV.



STRIPING LEGEND

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TRAFFIC CONTROL LEGEND

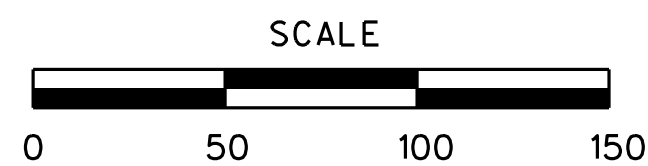
- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- ◻ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL PLAN
 STAGE 1A
 SHEET 16 OF 16

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ARROW BOARD
- CHANGEABLE MESSAGE BOARD

TCP GENERAL DESCRIPTION:

I-55 NB AND SB CLOSE LEFT LANE AND SHIFT TO OUTSIDE FOR DECK OVERLAYS

ALL RAMPS REMAIN OPEN

TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAYMENT WILL BE MADE.

UIP ALL EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.



WD20-1

(2)

480

485

MATCHLINE STA. 475+00.00

MATCHLINE STA. 489+00.00



WD20-1

(2)

I-55 SOUTHBOUND

I-55 NORTHBOUND

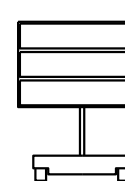
CONST. @ I-55

WORK ON THIS STAGE:

OVERLAY I-55 BRIDGES A1079 (VIRGINIA AVE.), A1080 (BATES AVE.), A1082 (4500 S. BROADWAY) AND A1083 (GASCONADE ST.) INSIDE TWO LANES AND INSIDE SHOULDER.

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

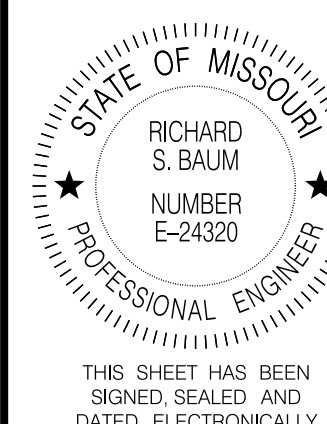


PLACE 2 CHANGEABLE MESSAGE BOARDS FOR MESSAGES TO NORTHBOUND TRAFFIC AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

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TRAFFIC CONTROL PLAN
STAGE 1B
SHEET 1 OF 14



DATE PREPARED
06-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 121

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

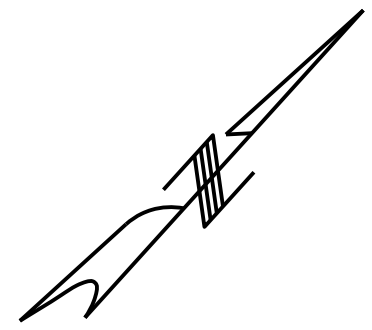
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

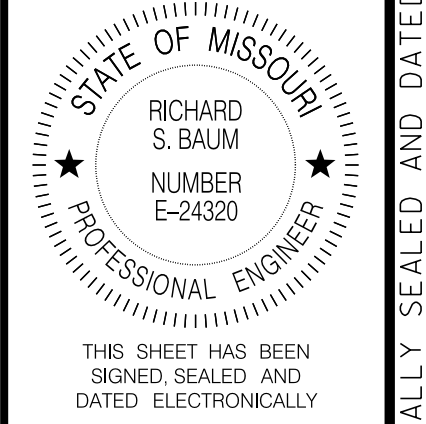
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs
ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
06-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	122

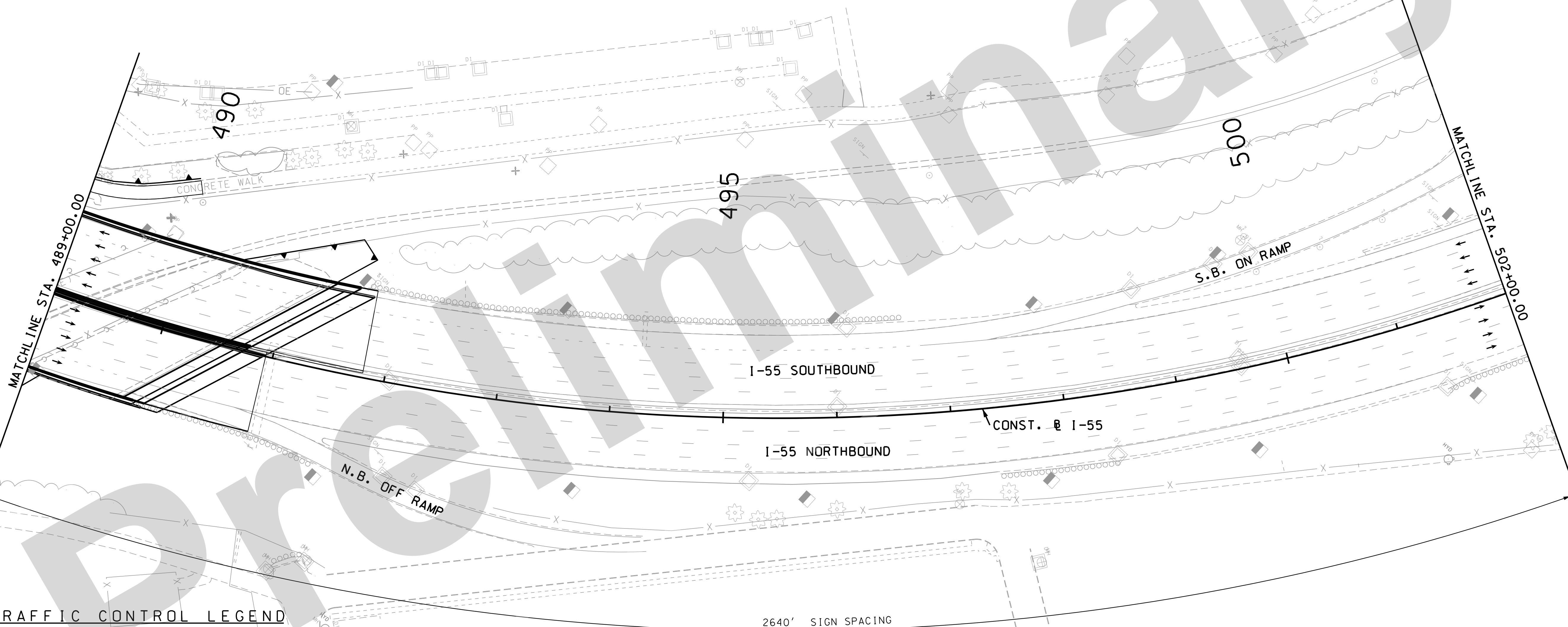
COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
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- SY = EXIST. SOLID YELLOW
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- DW = EXIST. DOTTED WHITE

2640' SIGN SPACING

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 2 OF 14

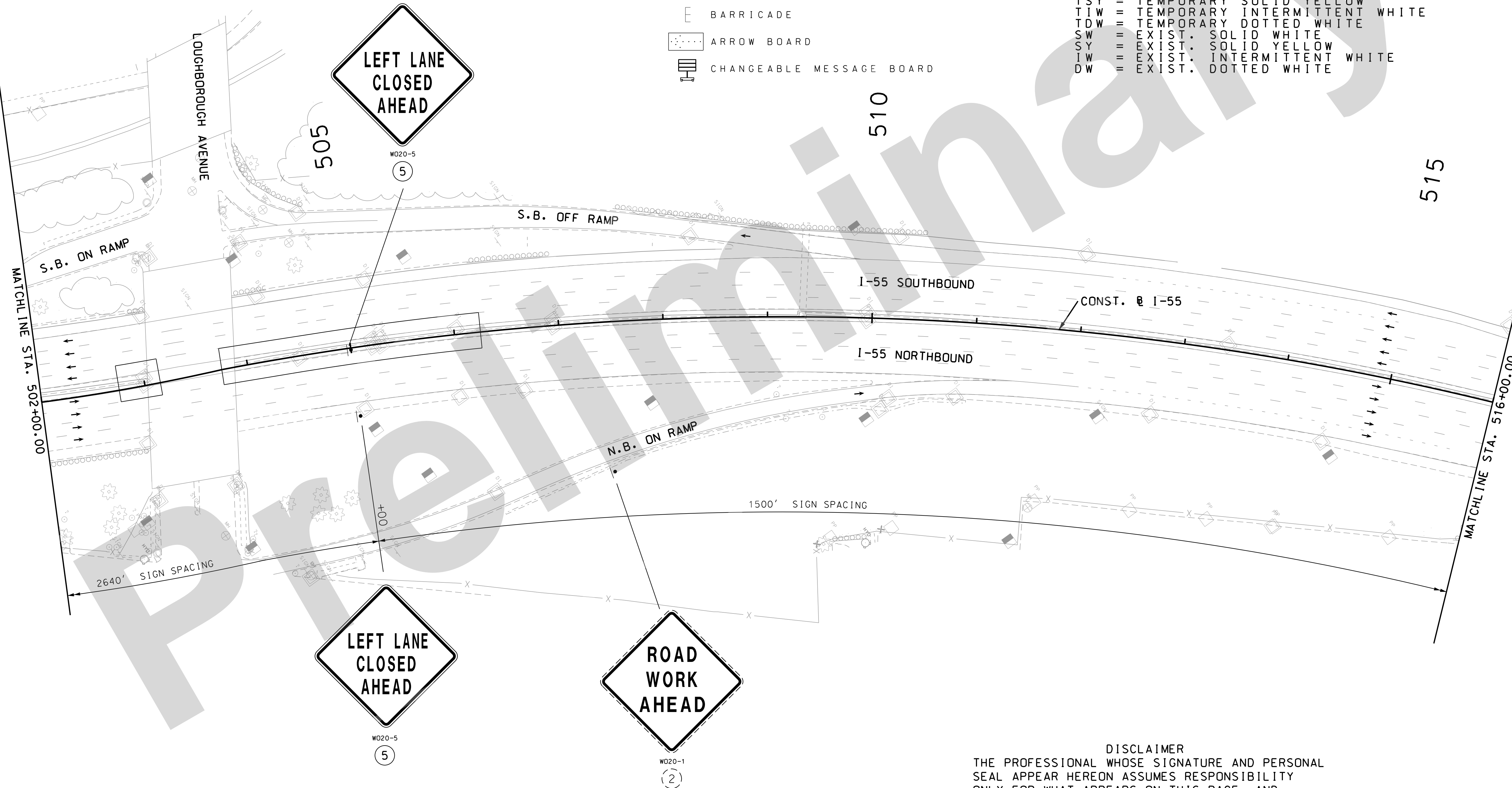
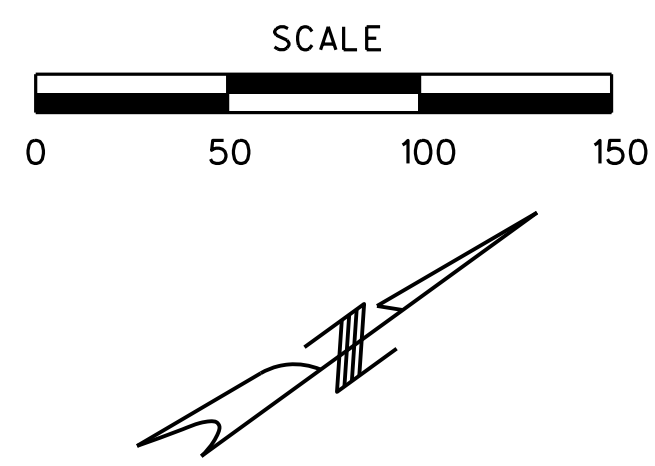
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- ⌌ BARRICADE
- ▭ ARROW BOARD
- ▨ CHANGEABLE MESSAGE BOARD

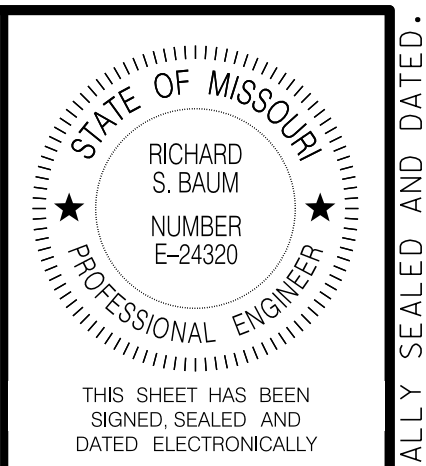
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TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 3 OF 14



DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	123

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

NO.	DESCRIPTION	DATE

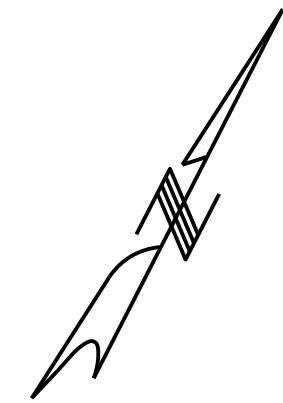
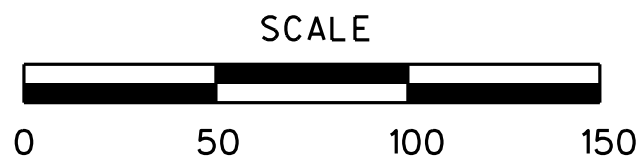
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

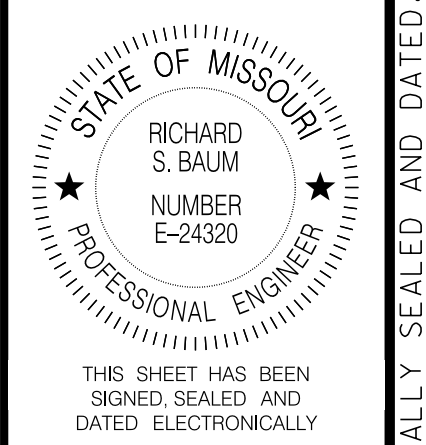
Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

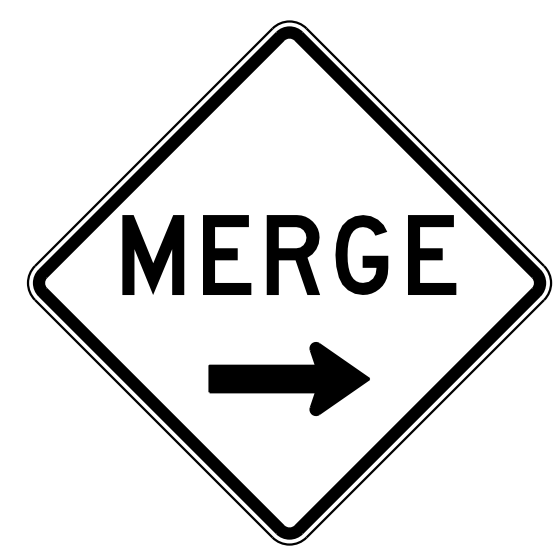
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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 124
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



WD4-1 gR
 (6A)

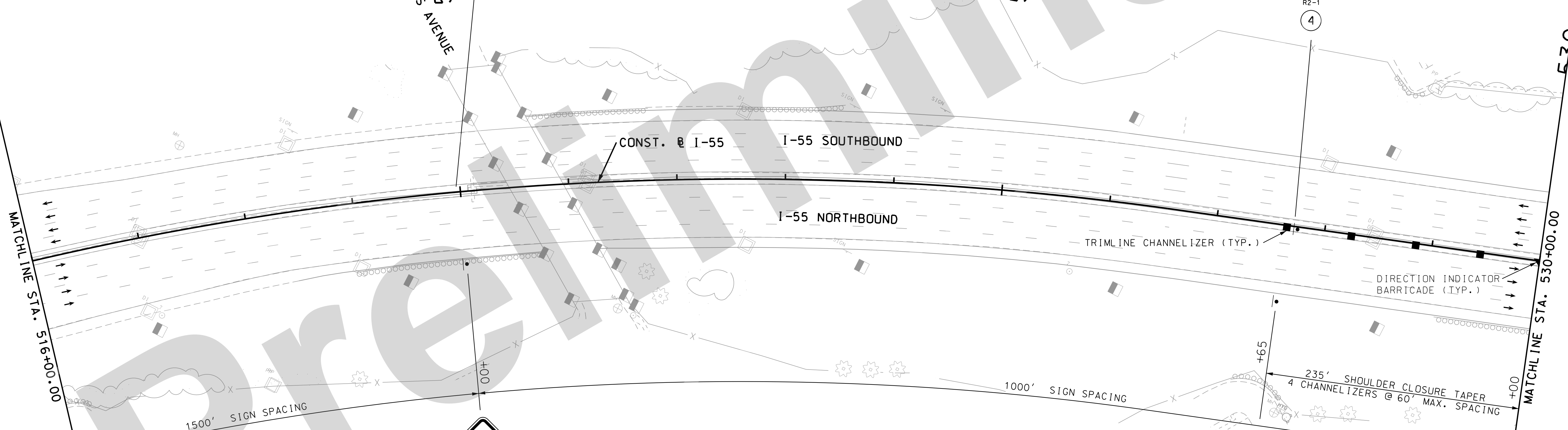
HOLLY HILLS AVENUE
 023



G020-5aP
 (54)



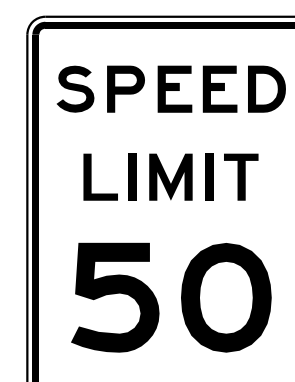
R2-1
 (4)



W020-6a
 (6)



G020-5aP
 (54)



R2-1
 (4)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⊥ BARRICADE
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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

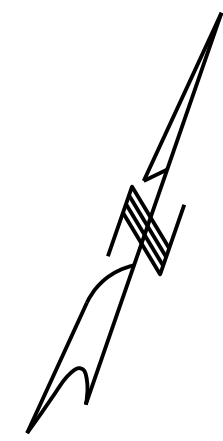
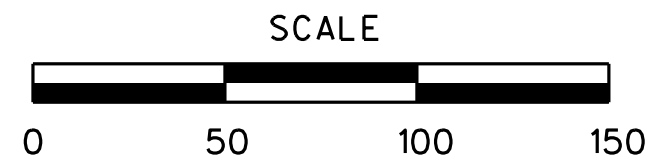
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

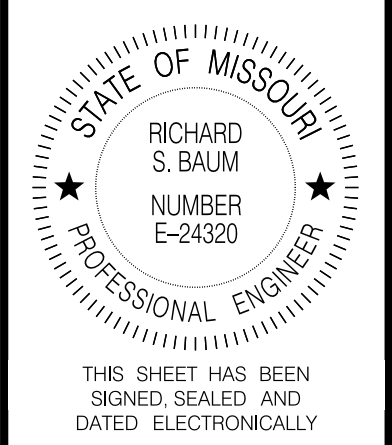
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 4 OF 14

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 125

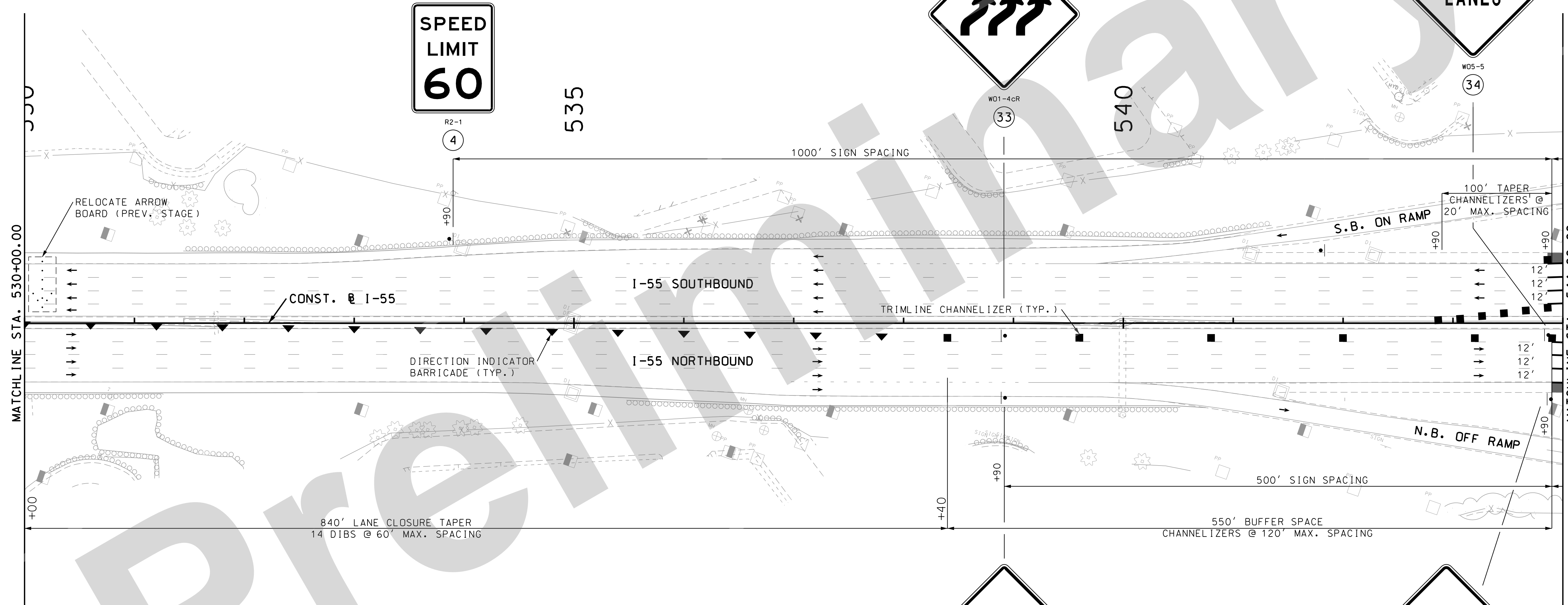
COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
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TRAFFIC CONTROL PLAN
STAGE 1B
SHEET 5 OF 14

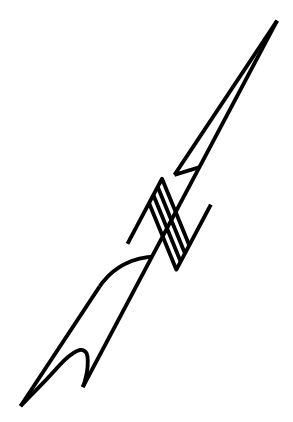
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

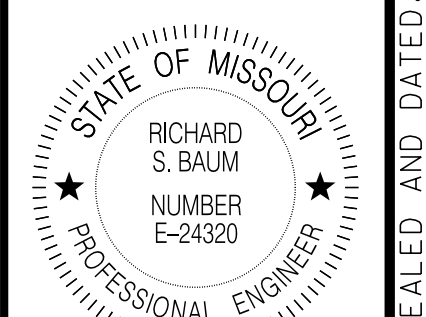
Jacobs

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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704



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NOTE: THE CONTRACTOR SHALL SHIFT THE TRAFFIC CONTROL AS NECESSARY TO CONSTRUCT THE BRIDGE APPROACH SLAB AND PAVEMENT.



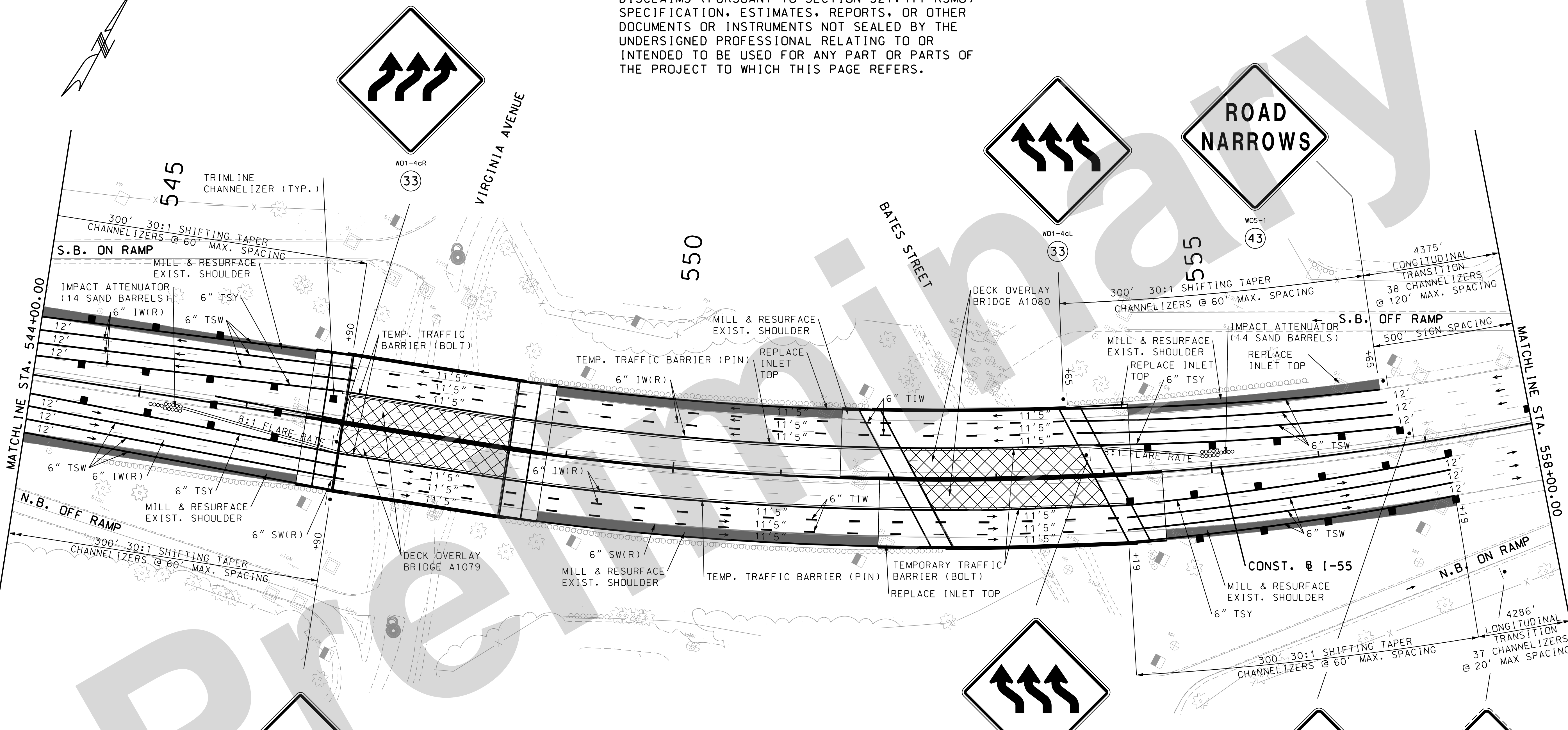
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED	05-AUG-2021	
ROUTE	I-55	STATE MO
DISTRICT	SL	SHEET NO. 126
COUNTY	ST. LOUIS CITY	
JOB NO.	J613149	
CONTRACT ID.		
PROJECT NO.		
BRIDGE NO.		

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



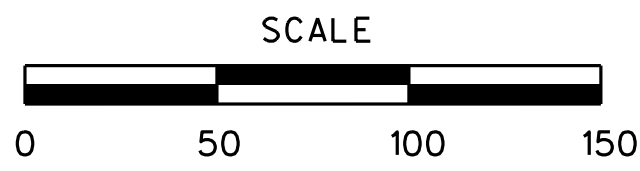
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- ▲ DIRECTIONAL INDICATOR BARRICADE
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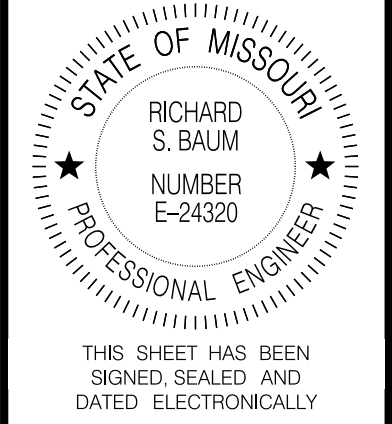
STRIPING LEGEND

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TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 6 OF 14



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 127

COUNTY
 ST. LOUIS CITY
 JOB NO.
 J613149
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

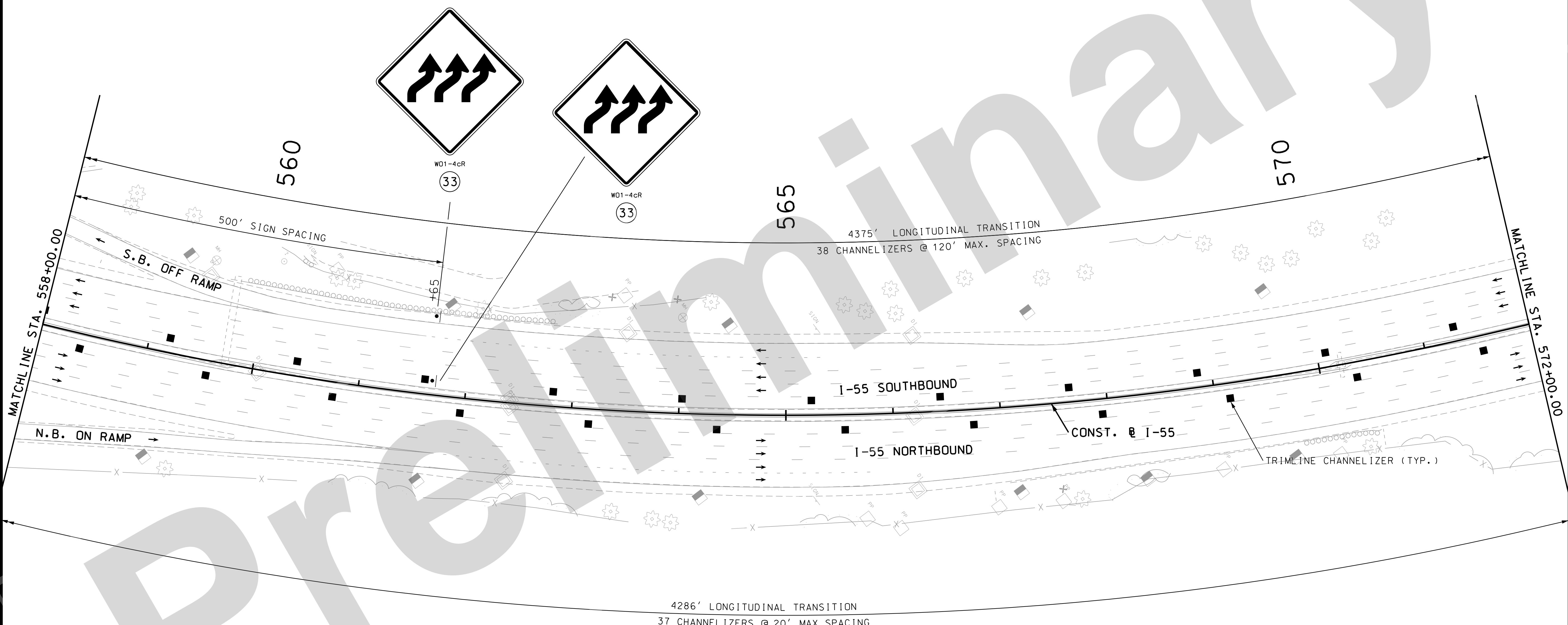
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
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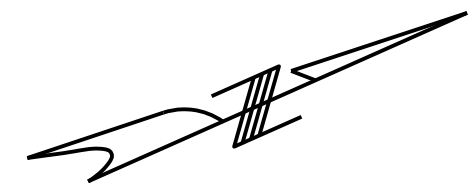
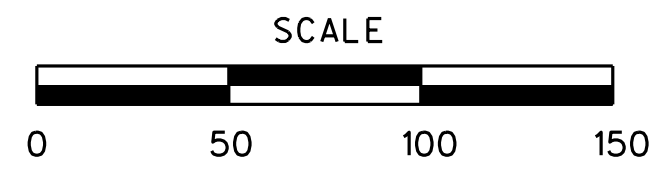
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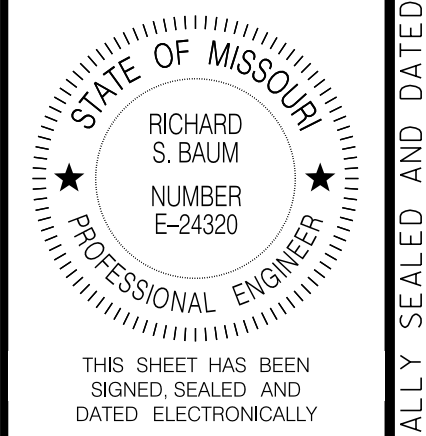
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TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 7 OF 14



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DATE PREPARED
05-AUG-2021

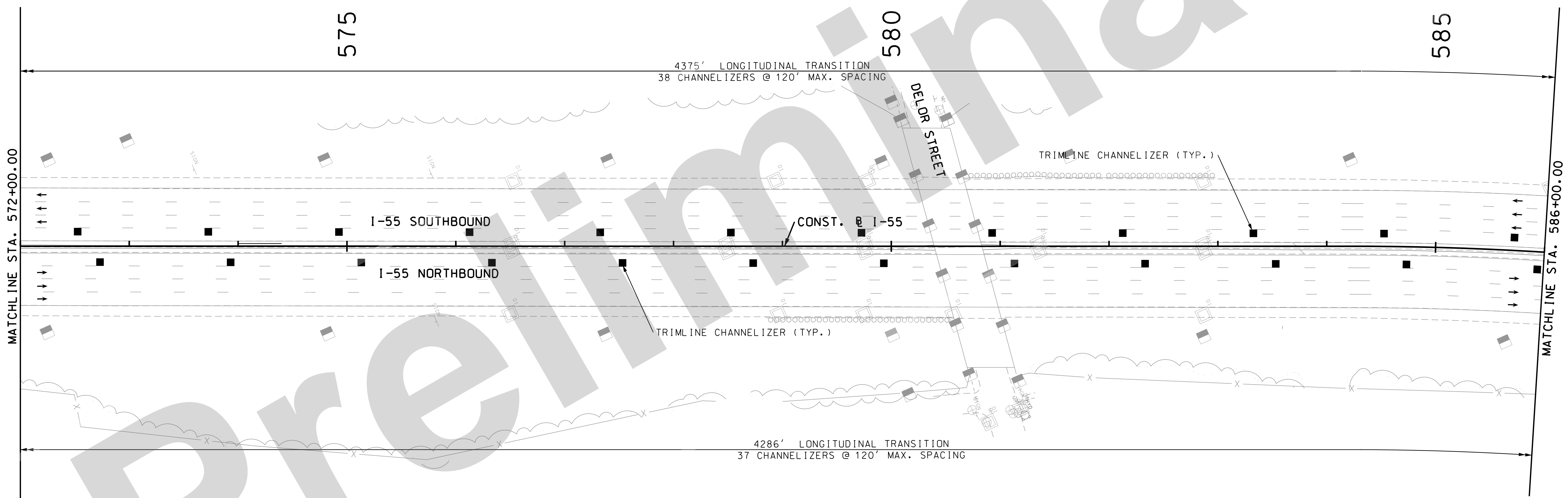
ROUTE	STATE
1-55	MO
DISTRICT	SHEET NO.
SL	128

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

CONTRACT ID.

PROJECT NO.
 BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

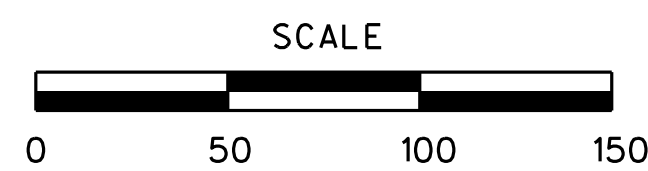
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

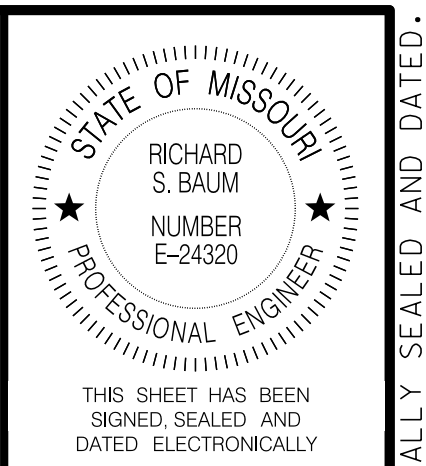
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 8 OF 14

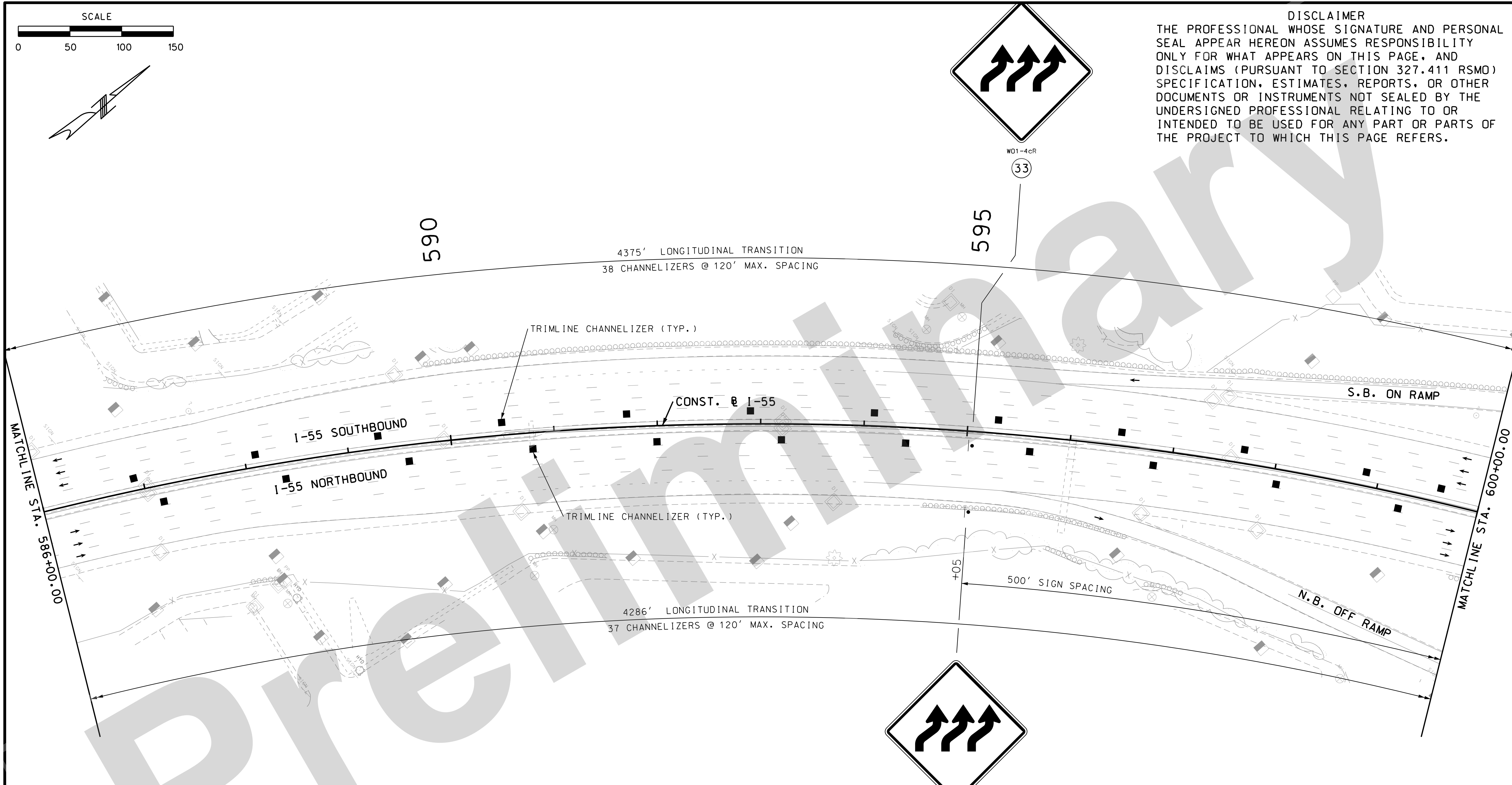
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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 129
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- △ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ▨ ARROW BOARD
- ▧ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
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- DW = EXIST. DOTTED WHITE

DATE	DESCRIPTION

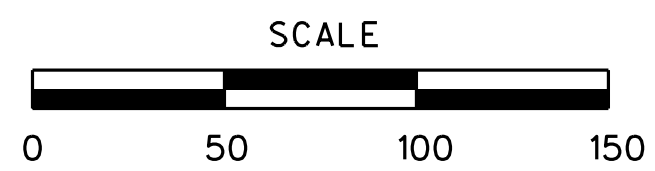
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

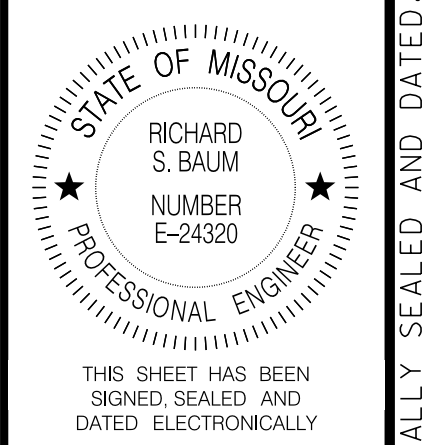
Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 9 OF 14

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NOTE: THE CONTRACTOR SHALL SHIFT THE TRAFFIC CONTROL AS NECESSARY TO CONSTRUCT THE BRIDGE APPROACH SLAB AND PAVEMENT.



DATE PREPARED		05-AUG-2021	
ROUTE	STATE	DISTRICT	SHEET NO.
I-55	MO	SL	130
COUNTY			
ST. LOUIS CITY			
JOB NO.			
J613149			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

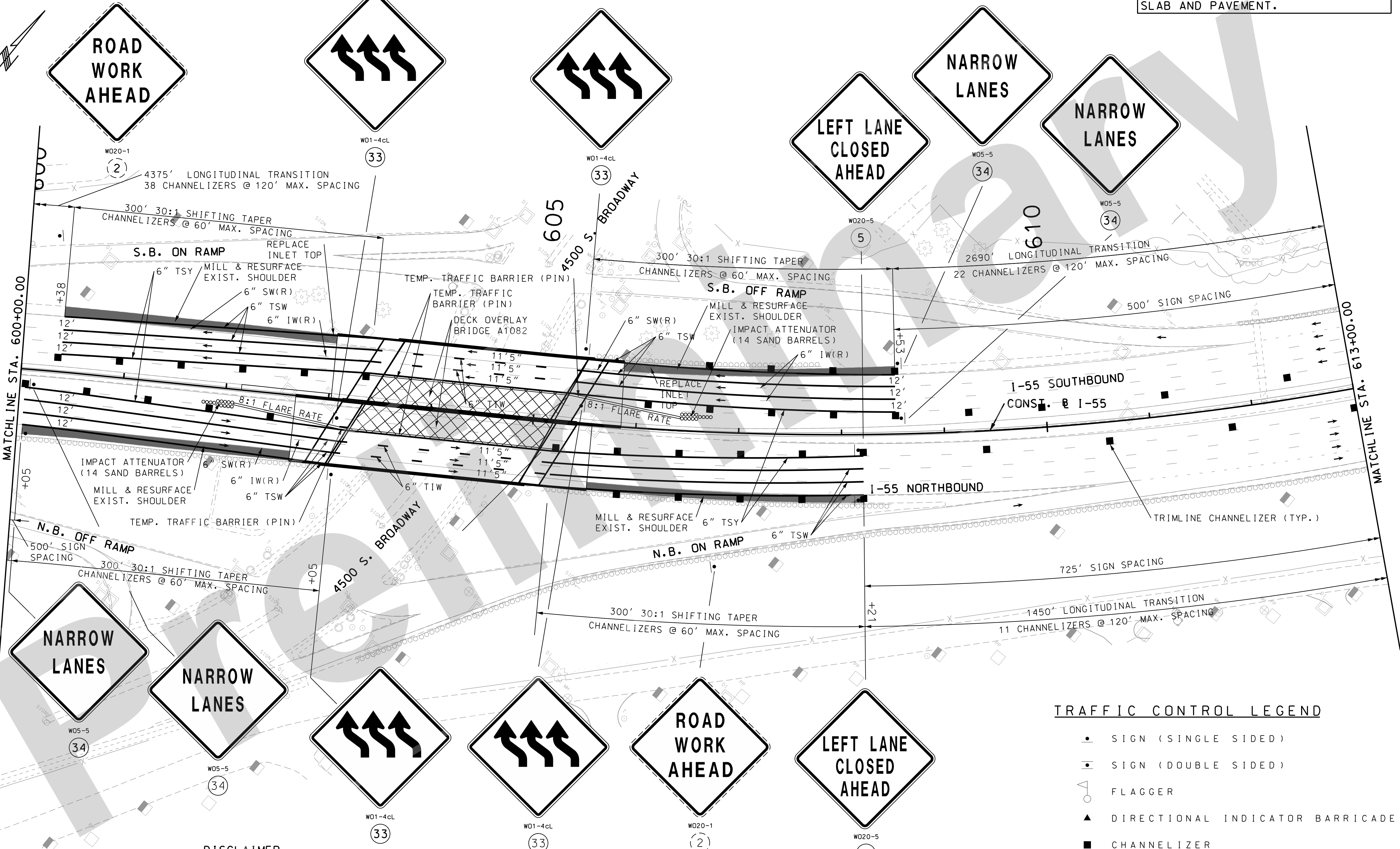
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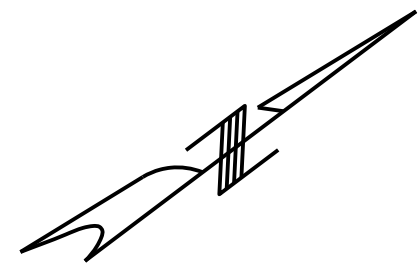
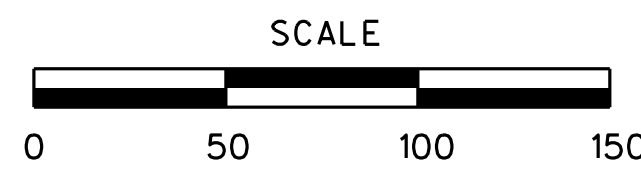
STRIPING LEGEND

TSW	=	TEMPORARY SOLID WHITE
TSY	=	TEMPORARY SOLID YELLOW
TIW	=	TEMPORARY INTERMITTENT WHITE
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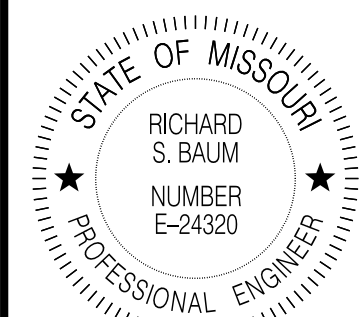
TRAFFIC CONTROL LEGEND

●	SIGN (SINGLE SIDED)
■	SIGN (DOUBLE SIDED)
○	FLAGGER
▲	DIRECTIONAL INDICATOR BARRICADE
■	CHANNELIZER
E	BARRICADE
□	ARROW BOARD
□	CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL PLAN
STAGE 1B
SHEET 10 OF 14



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DATE PREPARED
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ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 131

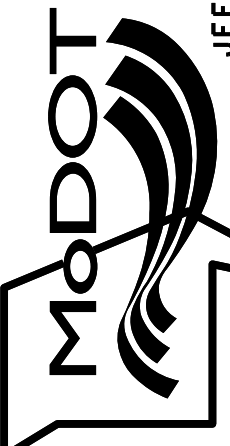
COUNTY
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J613149
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PROJECT NO.

BRIDGE NO.

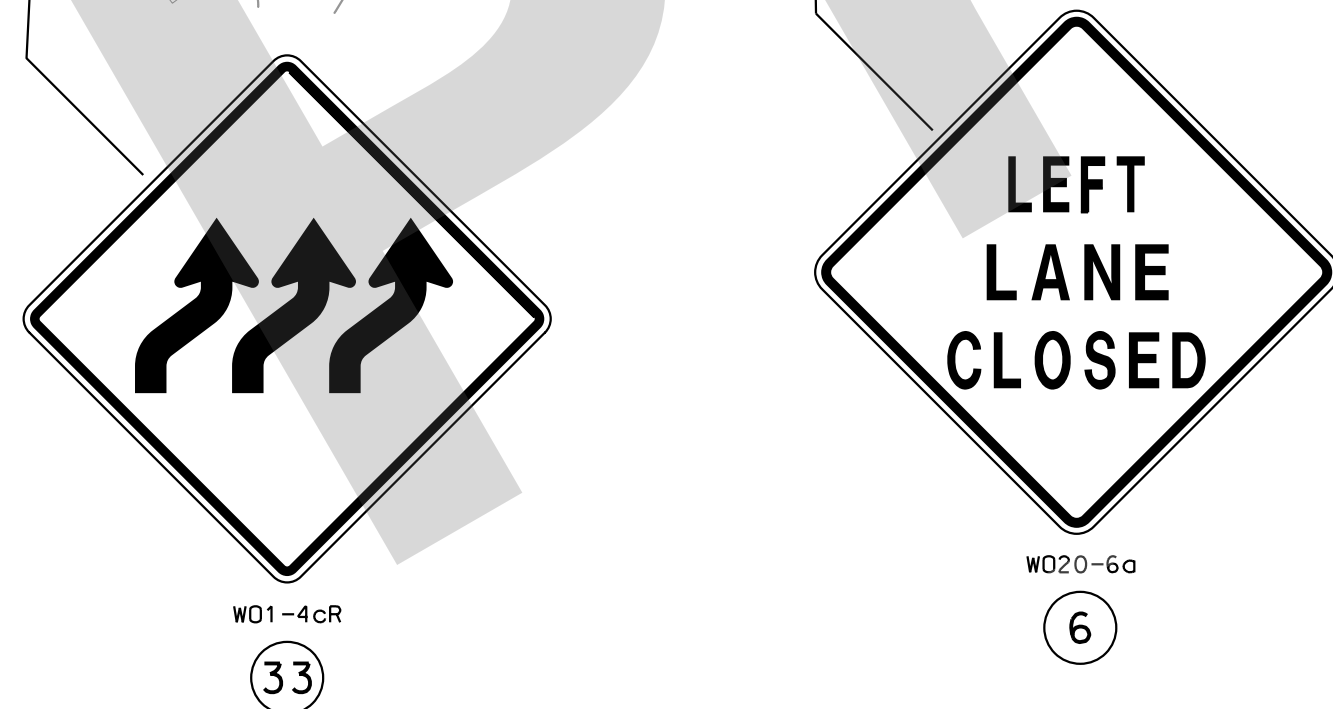
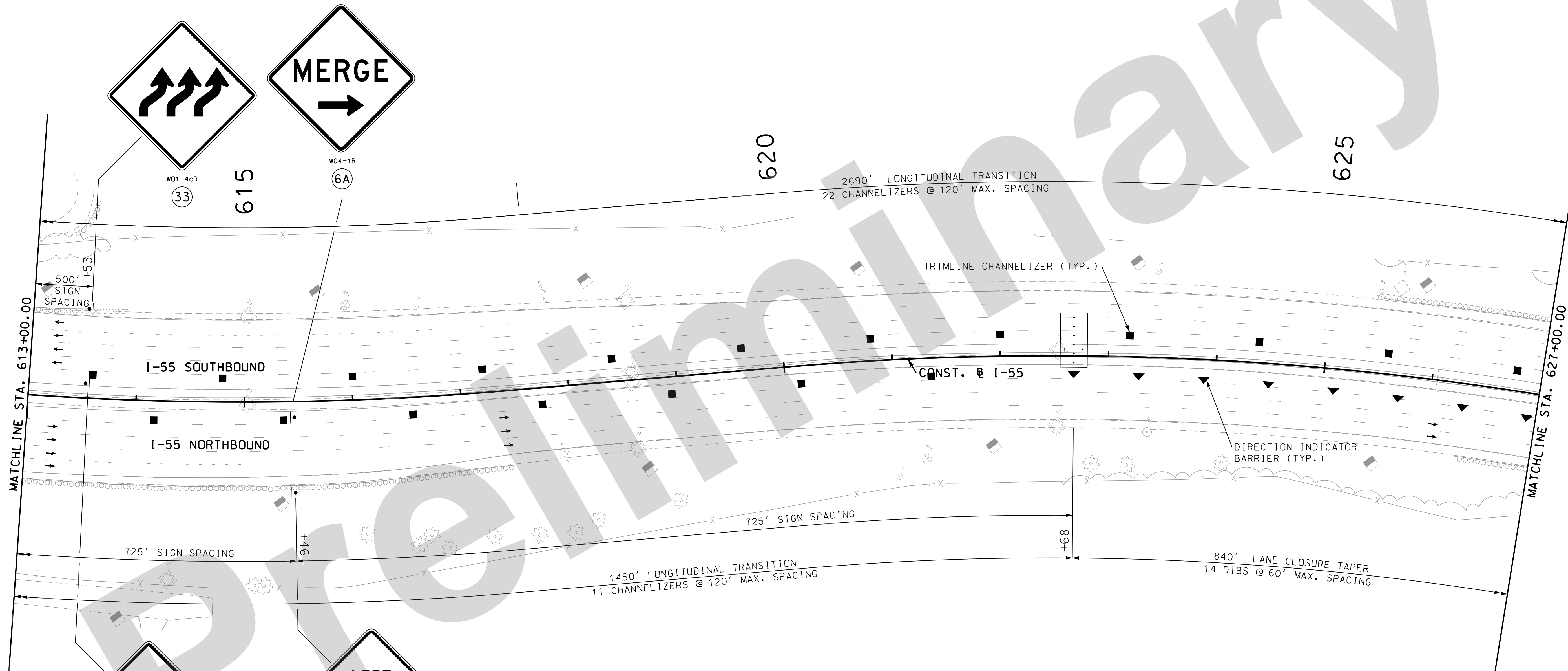
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TRAFFIC CONTROL LEGEND

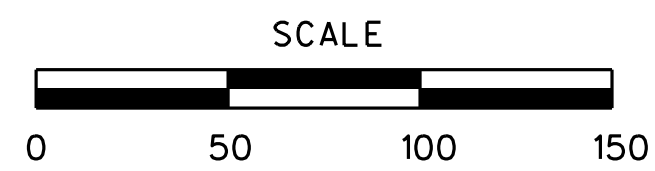
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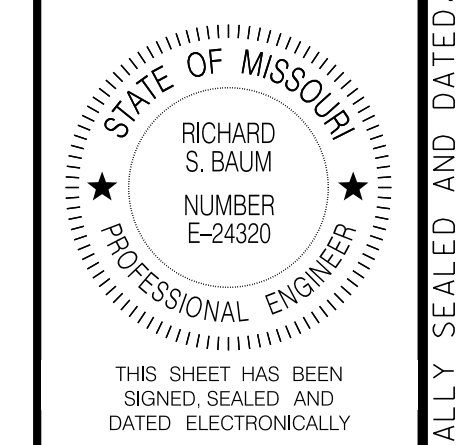
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TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 11 OF 14

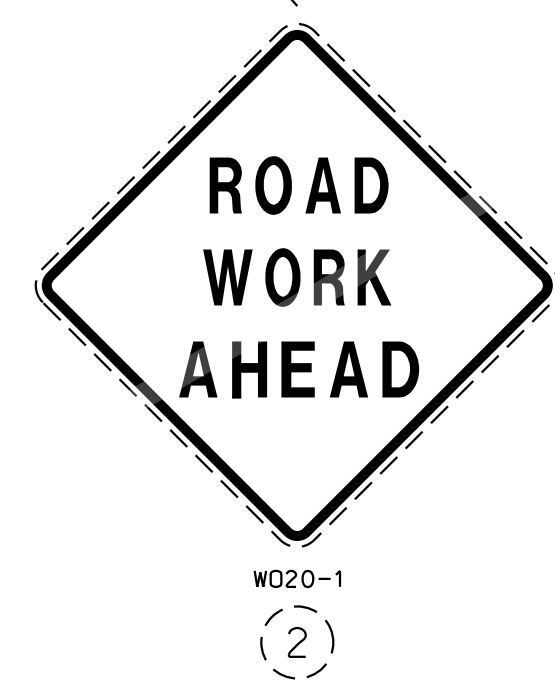
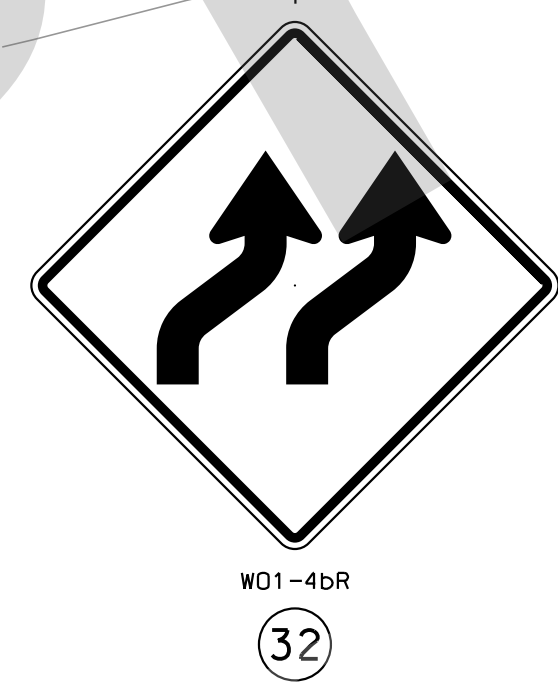
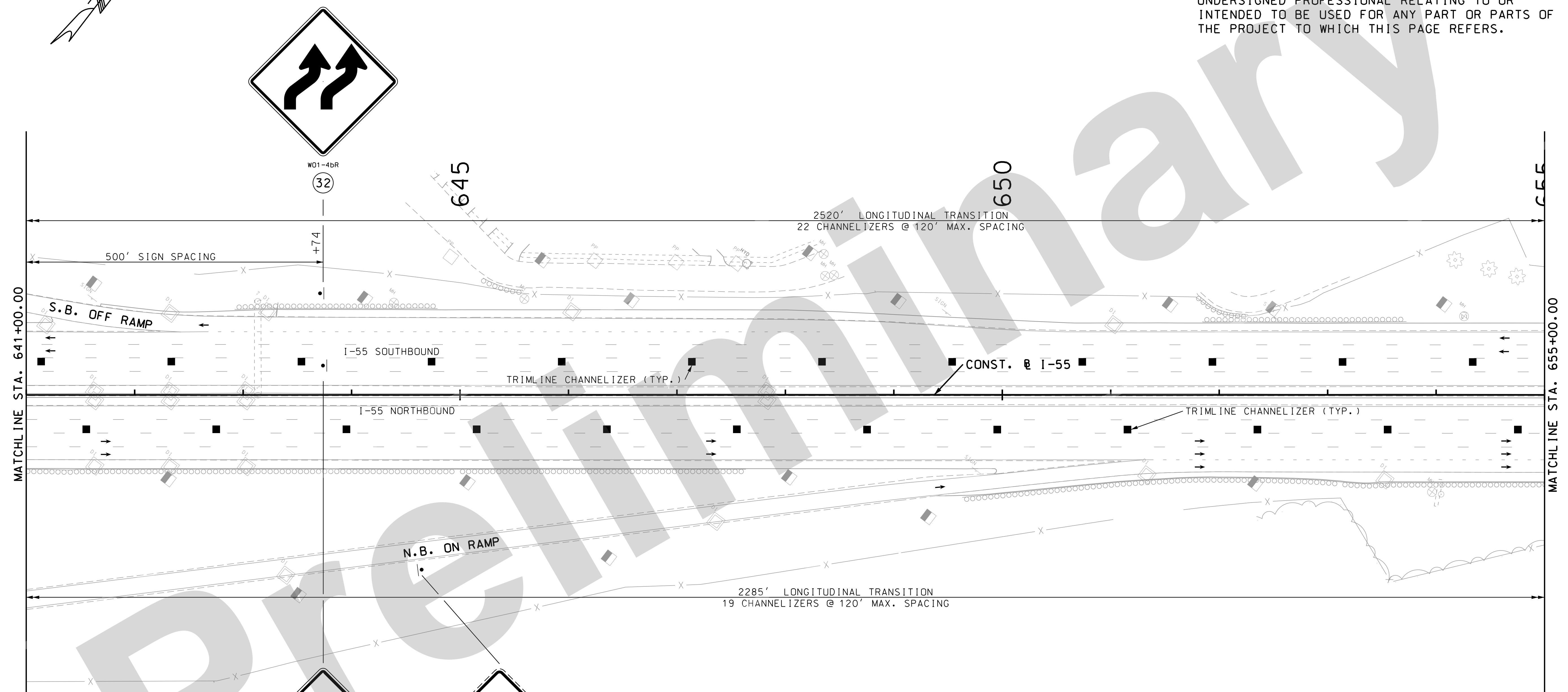
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BRIDGE NO.	



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TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 13 OF 14

DATE	DESCRIPTION

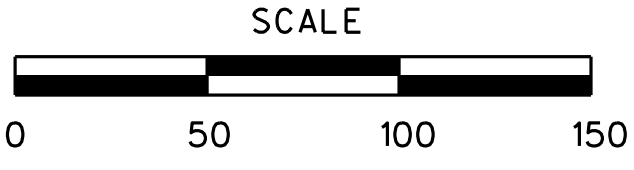
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105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

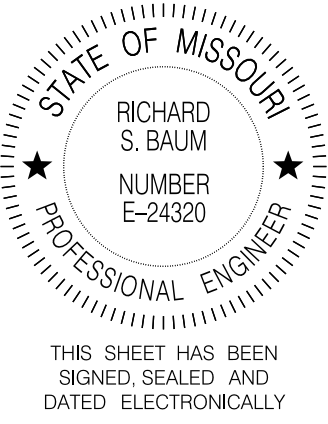
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 ST. LOUIS, MISSOURI 63102-2121
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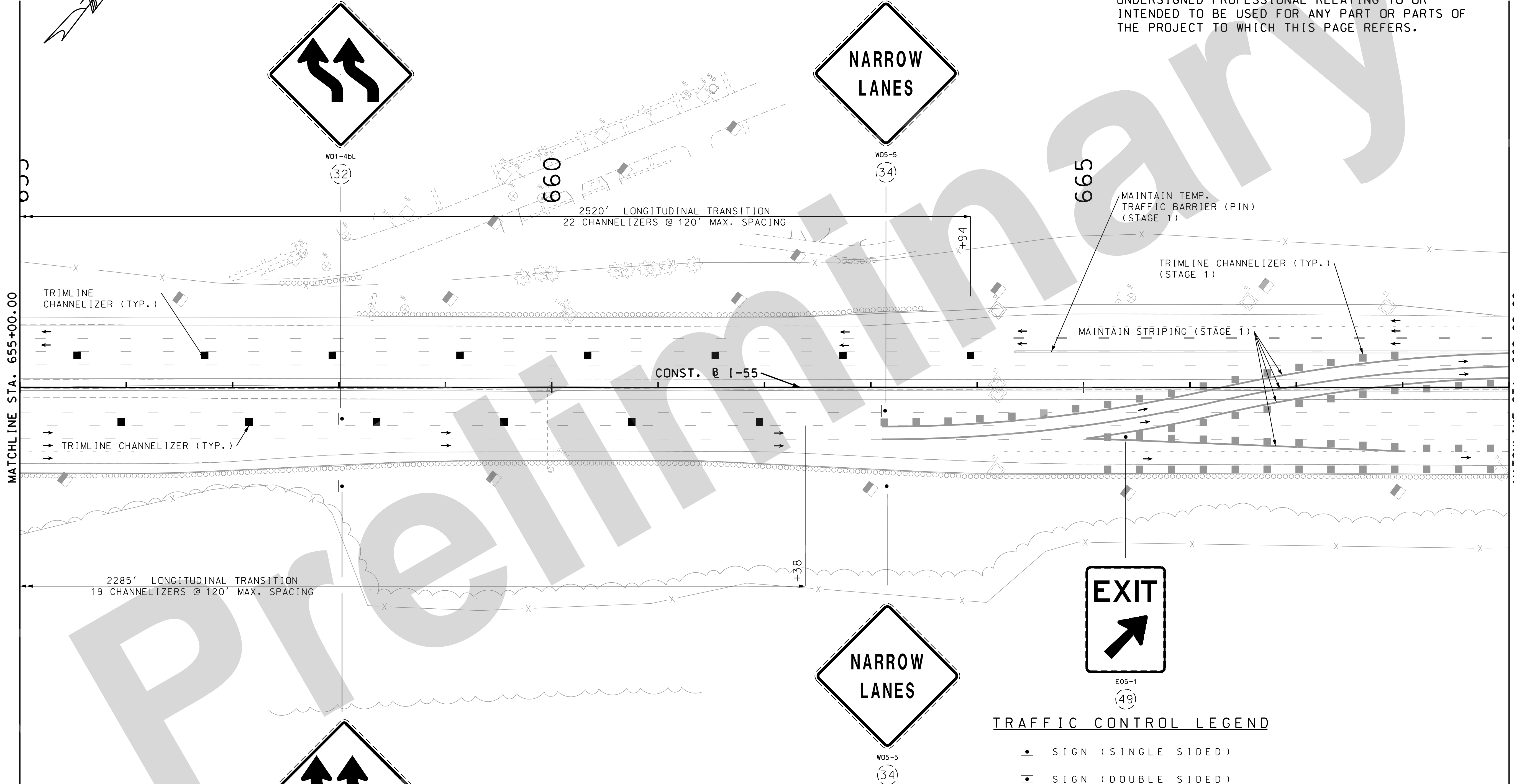
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TRAFFIC CONTROL LEGEND

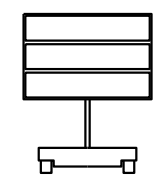
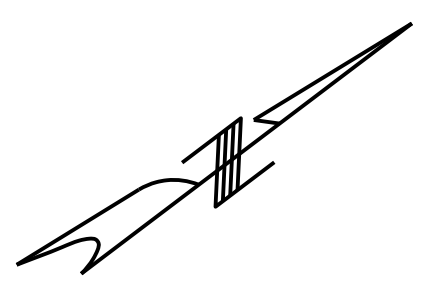
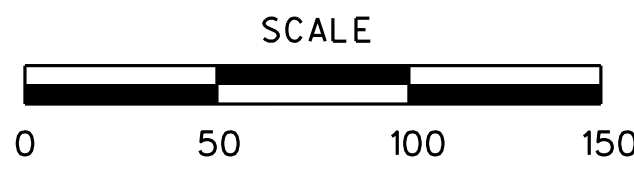
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TRAFFIC CONTROL PLAN
 STAGE 1B
 SHEET 14 OF 14

DATE	DESCRIPTION

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PLACE 2 CHANGEABLE MESSAGE BOARDS FOR MESSAGES TO NORTHBOUND TRAFFIC AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

WORK ON THIS STAGE:

OVERLAY SB I-55 BRIDGES A1084 (POTOMAC AVE.) AND A1086 (3200 S. BROADWAY)

REPLACE SB I-55 BRIDGE DECK A1085 (2nd ST.)

REMOVE AND REPLACE GUARDRAIL ATTACHED TO SB I-55 BRIDGES A1084, A1085, AND A1086.

TCP GENERAL DESCRIPTION:

I-55 NB AND SB CLOSE TWO LEFT LANES

SB CROSSES ONTO NB PAVEMENT BETWEEN SIDNEY AVE. UNDERPASS AND PESTALOZZI ST. UNDERPASS.

SB TRAFFIC CROSSES BACK ONTO SB PAVEMENT BETWEEN POTOMAC AVE. UNDERPASS AND GASCONADE ST. OVERPASS.

SB ON RAMP TO 3200 S. BROADWAY AND ARSENAL ST. CLOSED. ALL OTHER RAMP REMAIN OPEN.

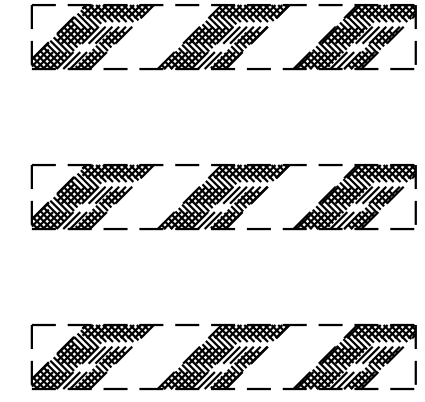
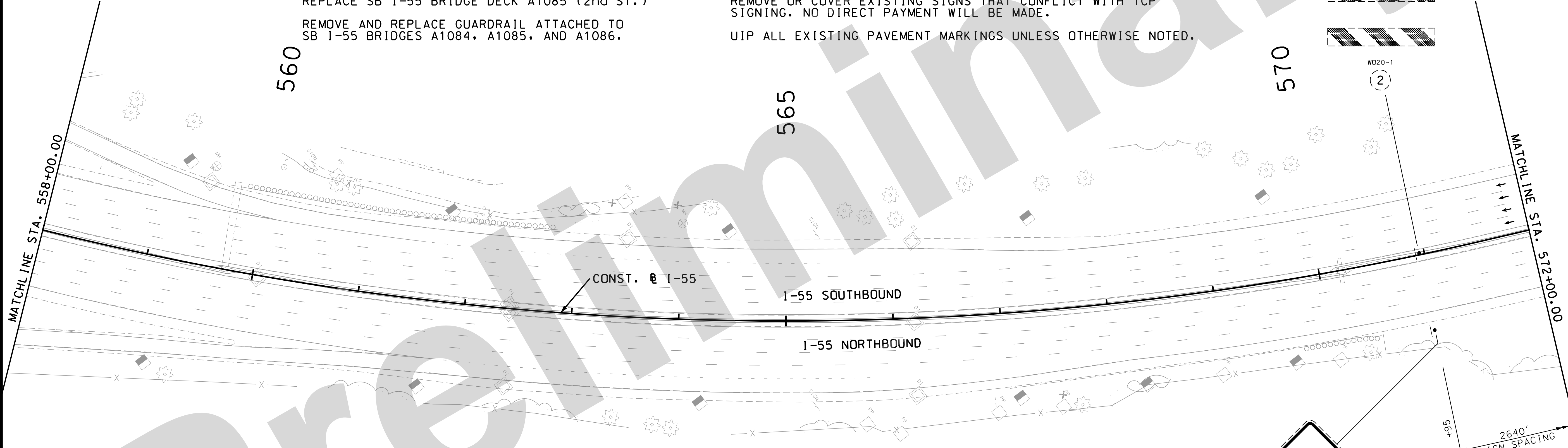
TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAYMENT WILL BE MADE.

UIP ALL EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.



WO20-1 (2)

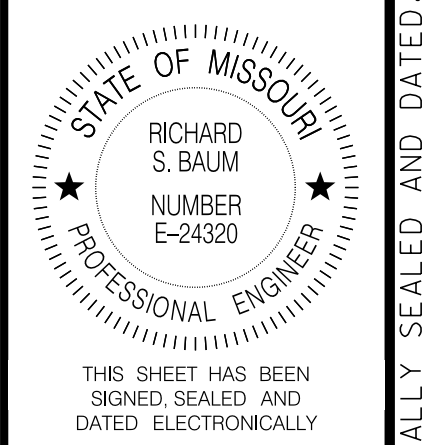
TRAFFIC CONTROL LEGEND

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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 135
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

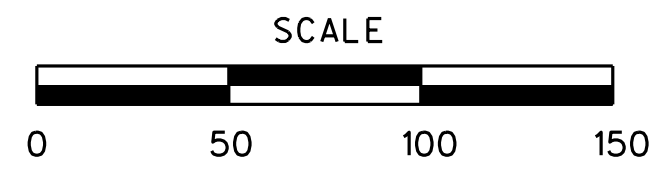
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

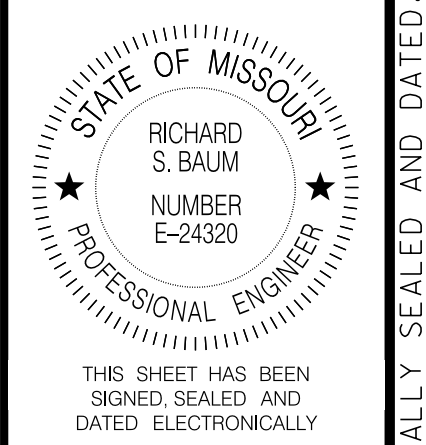
Jacobs
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 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 1 OF 17

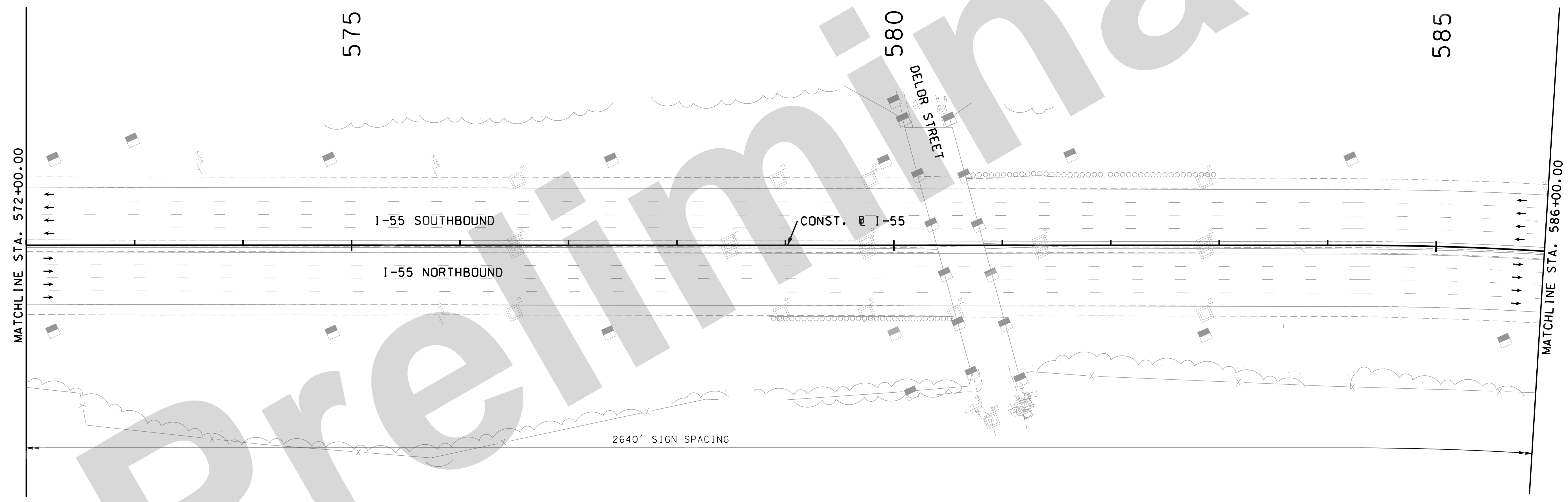
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DISTRICT SL	SHEET NO. 136
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
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PROJECT NO.	
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TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 2 OF 17

DATE	DESCRIPTION

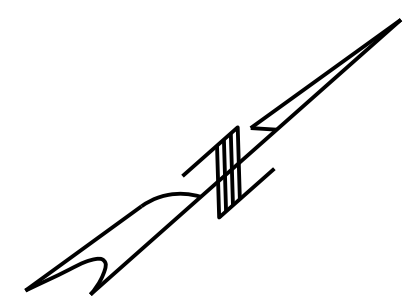
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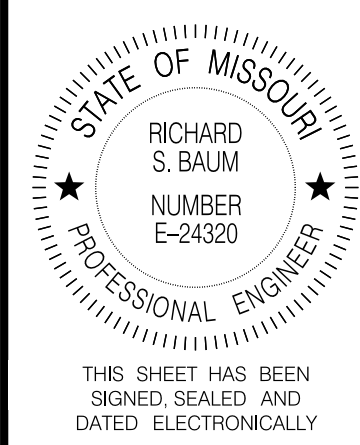
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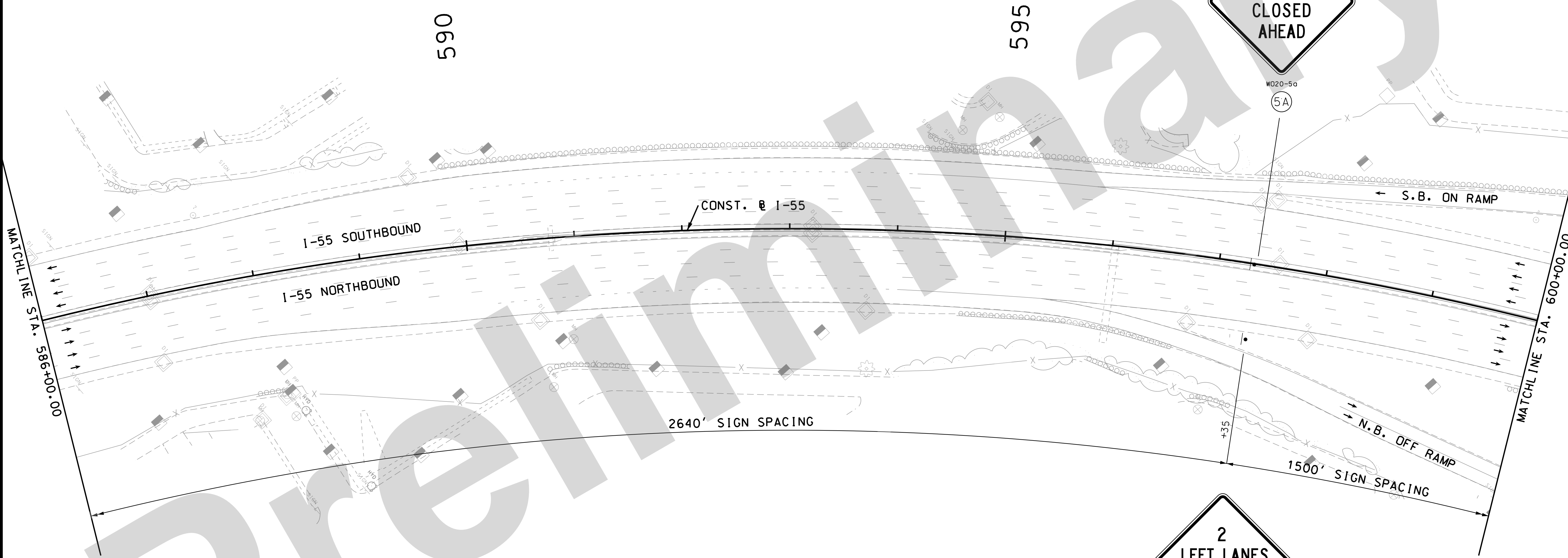
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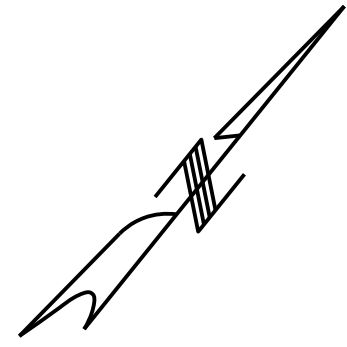
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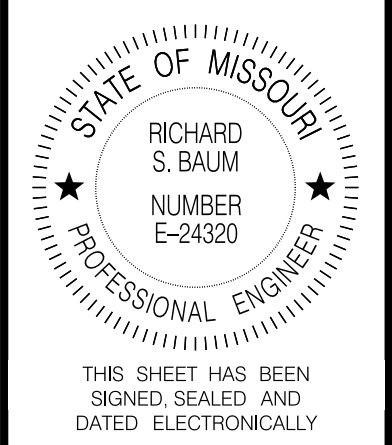
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TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 3 OF 17

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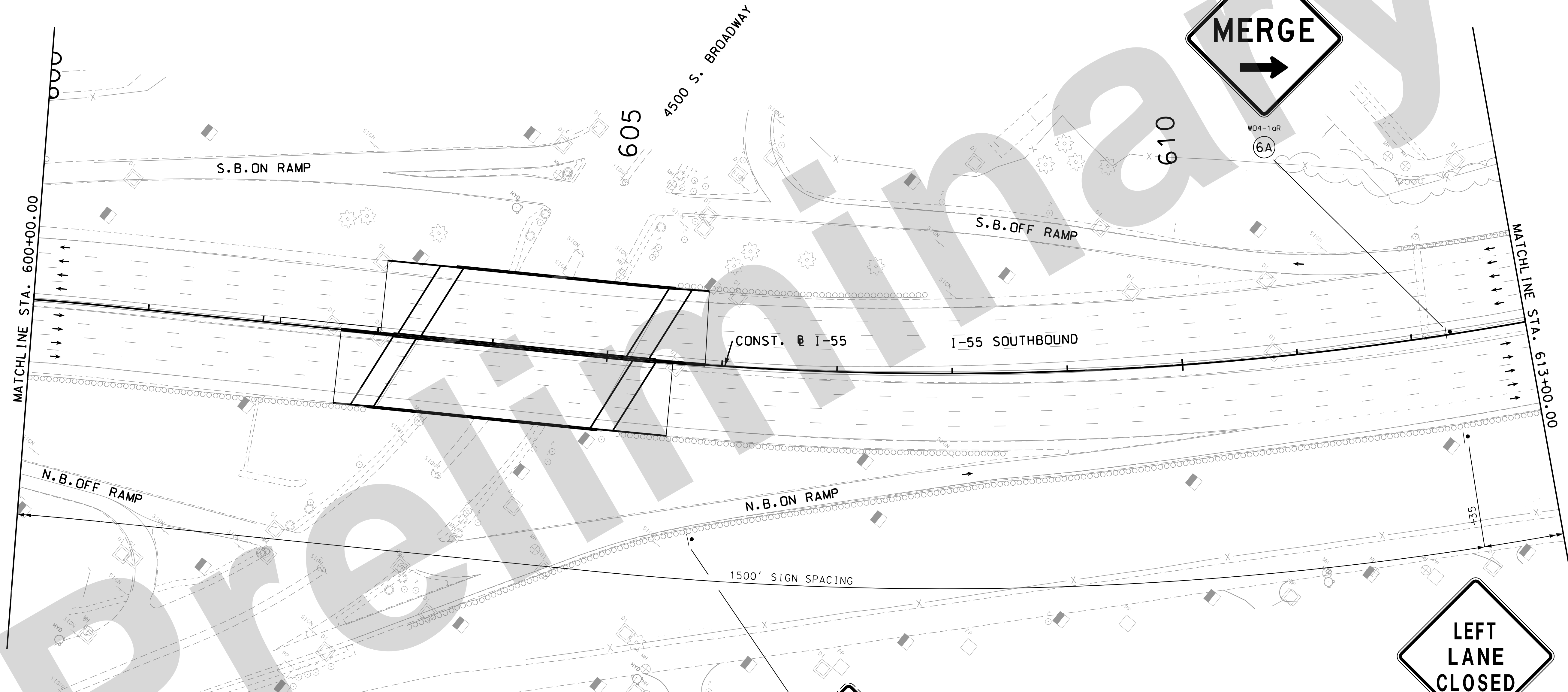
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- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

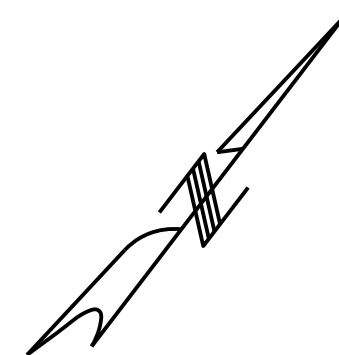
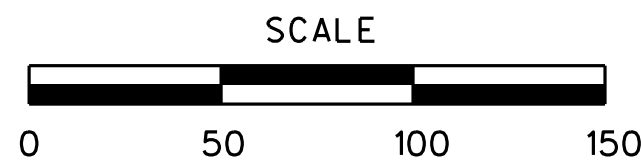
STRIPING LEGEND

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- TDW = TEMPORARY DOTTED WHITE
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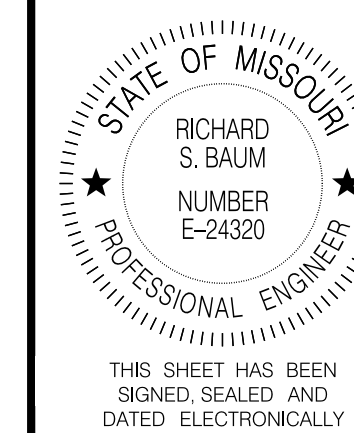


TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 4 OF 17

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 141

COUNTY
 ST. LOUIS CITY
 JOB NO.
 J613149
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DATE

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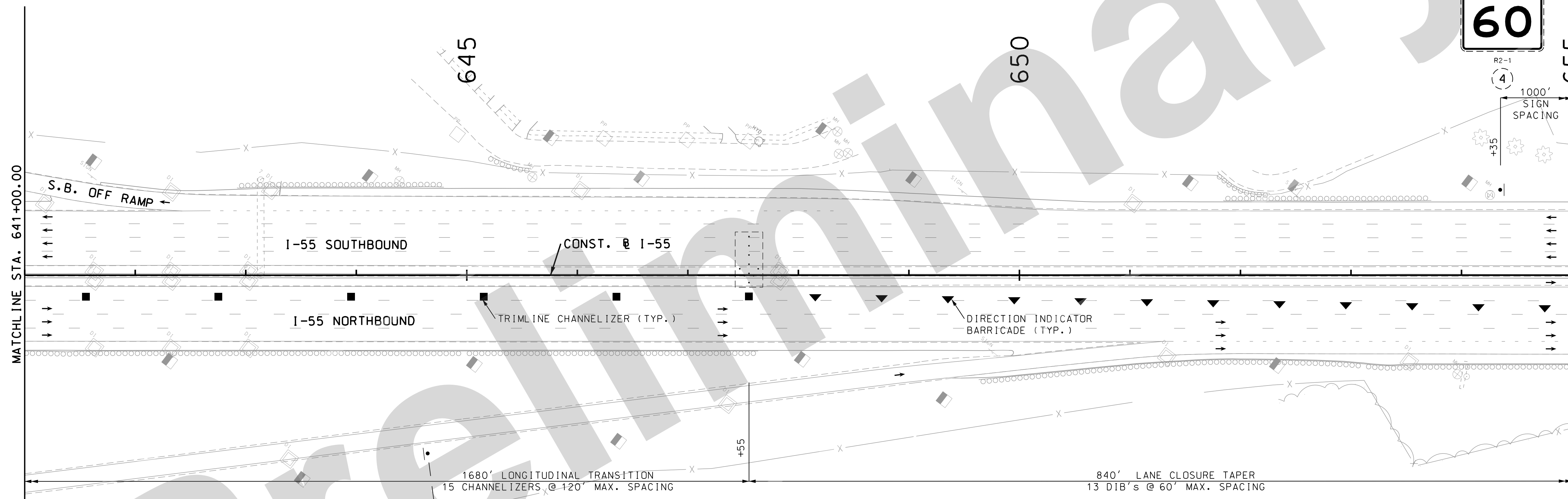
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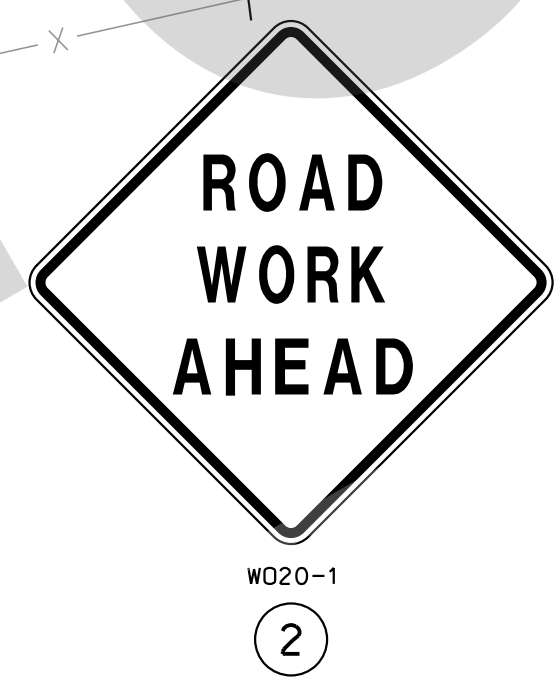
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DATE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
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STRIPING LEGEND

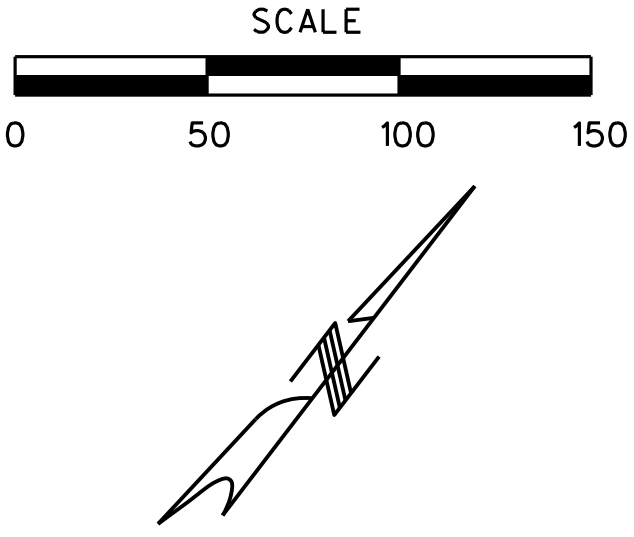
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TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 7 OF 17

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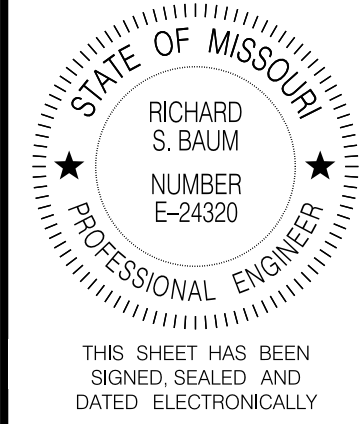
Preview
 Primary
 Modot
 Missouri Highways and Transportation Commission
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



W05-5
34

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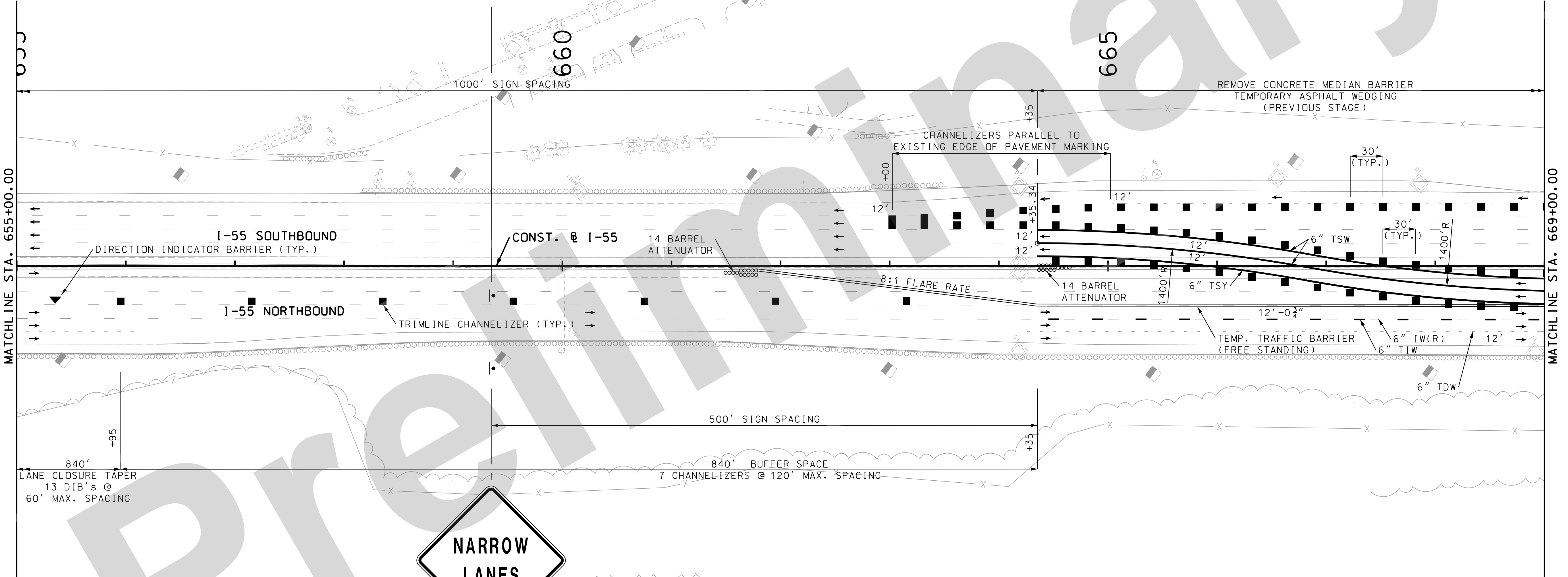


DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 142

COUNTY
ST. LOUIS CITY
JOB NO.
J613149
CONTRACT ID.

PROJECT NO.
BRIDGE NO.



TRAFFIC CONTROL LEGEND

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W05-5
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TRAFFIC CONTROL PLAN
STAGE 2
SHEET 8 OF 17

DATE	DESCRIPTION

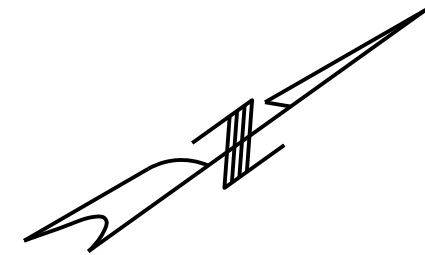
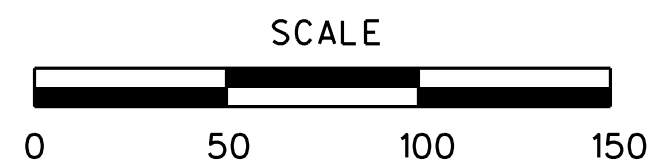
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

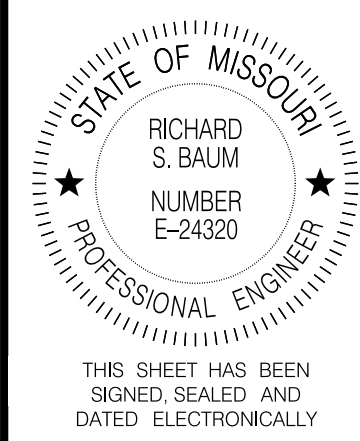
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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
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 ROUTE STATE
I-55 MO
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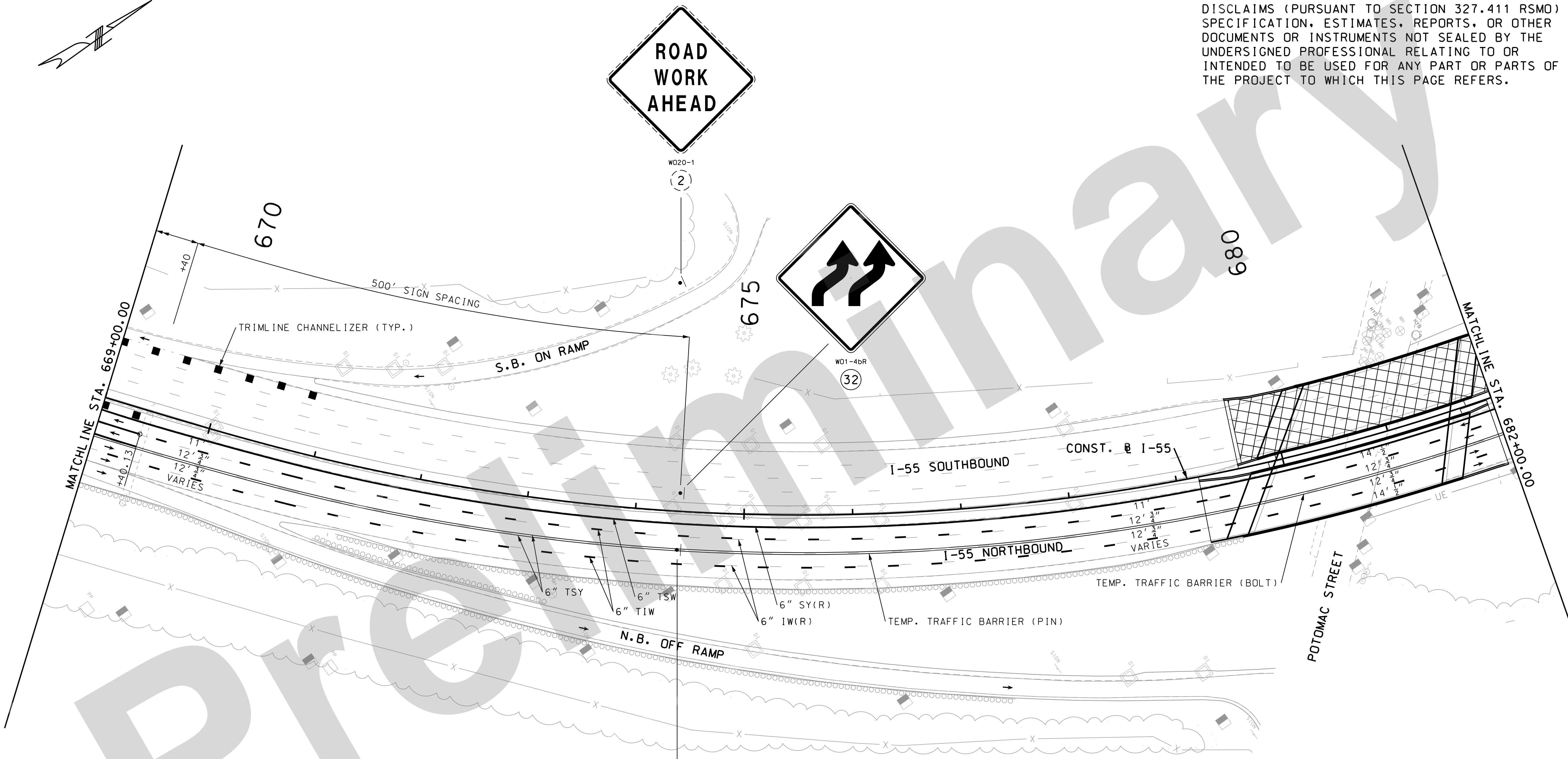
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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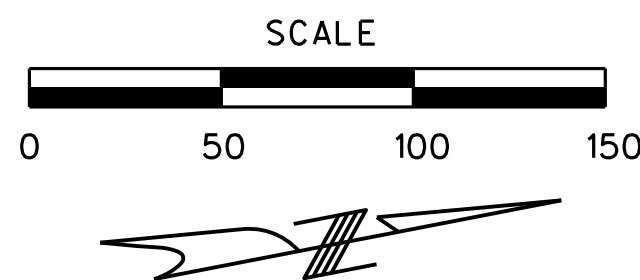
TRAFFIC CONTROL LEGEND

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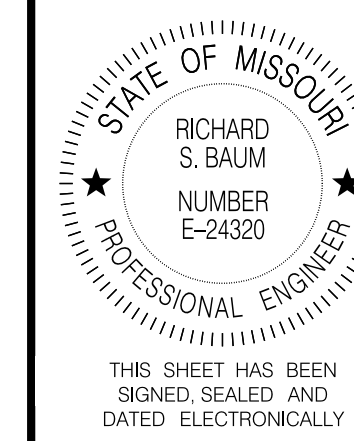
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TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 9 OF 17



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 ROUTE STATE
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 DISTRICT SHEET NO.
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ST. LOUIS CITY
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J613149
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PROJECT NO.
 BRIDGE NO.

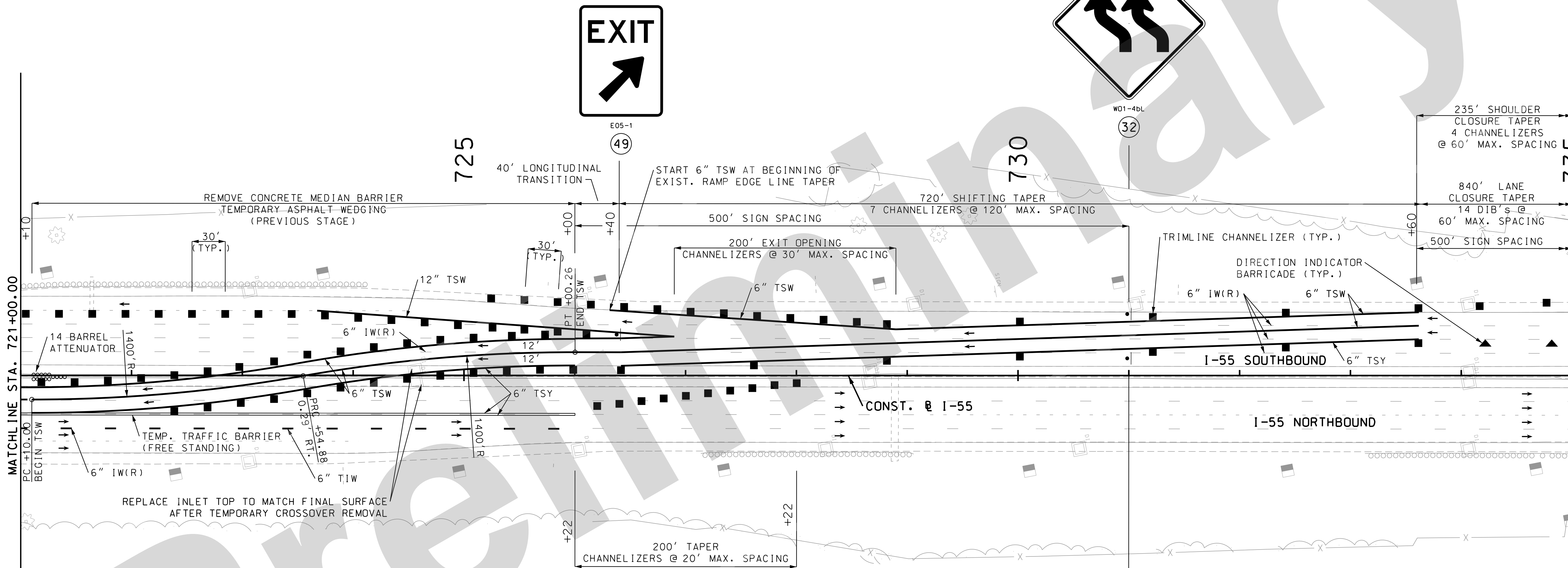
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
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TRAFFIC CONTROL PLAN
 STAGE 2
 SHEET 13 OF 17



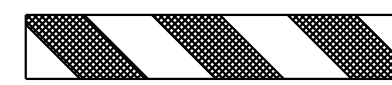
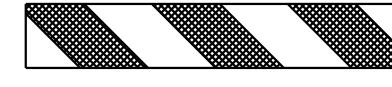
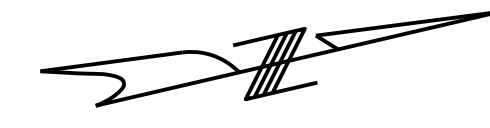
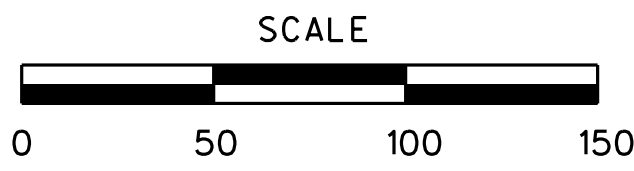
TRAFFIC CONTROL LEGEND

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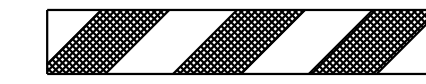
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W020-1
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W020-1
2



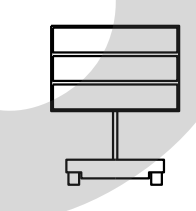
W020-5a
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W020-5a
5A

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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PLACE 2 CHANGEABLE MESSAGE BOARDS FOR MESSAGES TO NORTHBOUND TRAFFIC AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

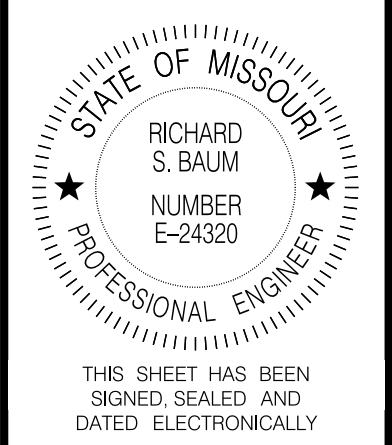
WORK ON THIS STAGE:

OVERLAY NB I-55 BRIDGE A1075 (KOELN AVE.)
 REPLACE NB I-55 BRIDGE DECK A0607 (GRAVOIS CREEK), A0591 (GREEN PARK RD.), A1057 RIVER DES PERES) AND A1076 (MO-PAC RAILROAD)
 REMOVE AND REPLACE GUARDRAIL ATTACHED TO NB I-55 BRIDGES A0607, A0591, A1057, A1075 AND A1076.

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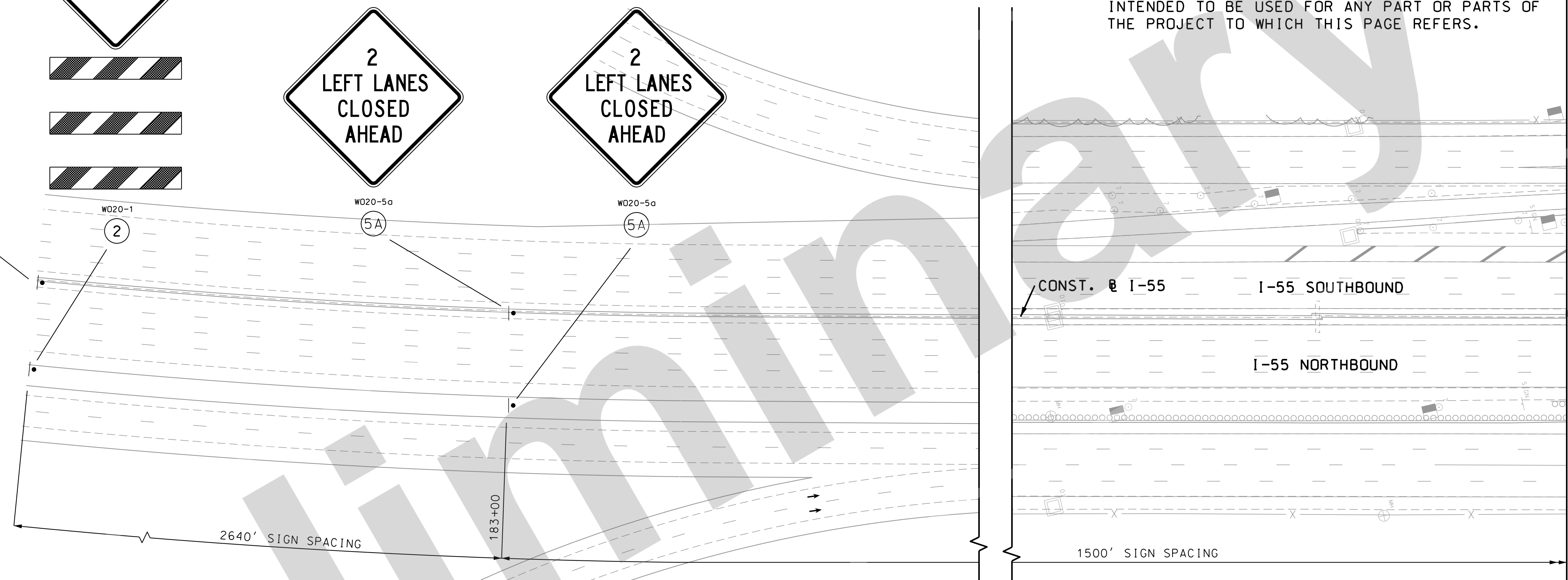
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DATE PREPARED
 05-AUG-2021
 ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 152
 COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

MATCH LINE STA. 197+00.00



TCP GENERAL DESCRIPTION:

I-55 NB AND SB CLOSE TWO LEFT LANES.
 NB CROSSES ONTO SB PAVEMENT BETWEEN LINDBERGH BLVD. INTERCHANGE AND GRAVOIS CREEK BRIDGE. NB TRAFFIC CROSSES BACK ONTO NB PAVEMENT BETWEEN GRANT'S TRAIL OVERPASS AND REAVIS BARRACKS RD. INTERCHANGE.
 NB TRAFFIC CROSSES ONTO SB PAVEMENT BETWEEN WEBER RD. UNDERPASS AND RIVER DES PERES BRIDGE. NB TRAFFIC CROSSES BACK ONTO NB PAVEMENT BETWEEN HOLLY HILLS AVE. UNDERPASS AND VIRGINIA AVE. OVERPASS.
 NB ON RAMP FROM GERMANIA ST., NB ON RAMP FROM LOUGHBOUROUGH AVE., NB OFF RAMP TO LOUGHBOUROUGH AVE. AND NB OFF RAMP TO VIRGINIA AVE. CLOSED. ALL OTHER RAMPS REMAIN OPEN.

TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.
 SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.
 REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAYMENT WILL BE MADE.
 UIP ALL EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

DATE	DESCRIPTION

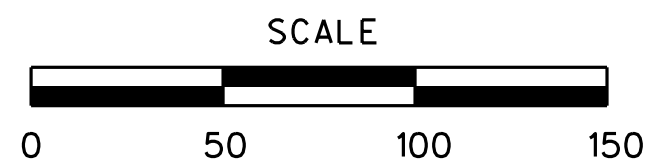
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

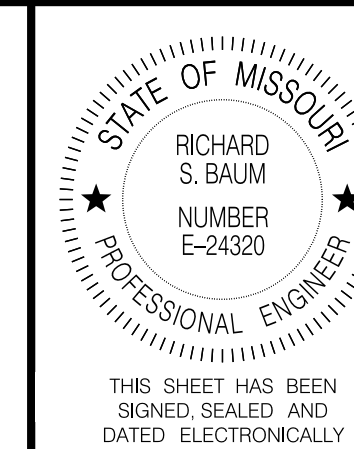
Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 1 OF 31



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 154

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

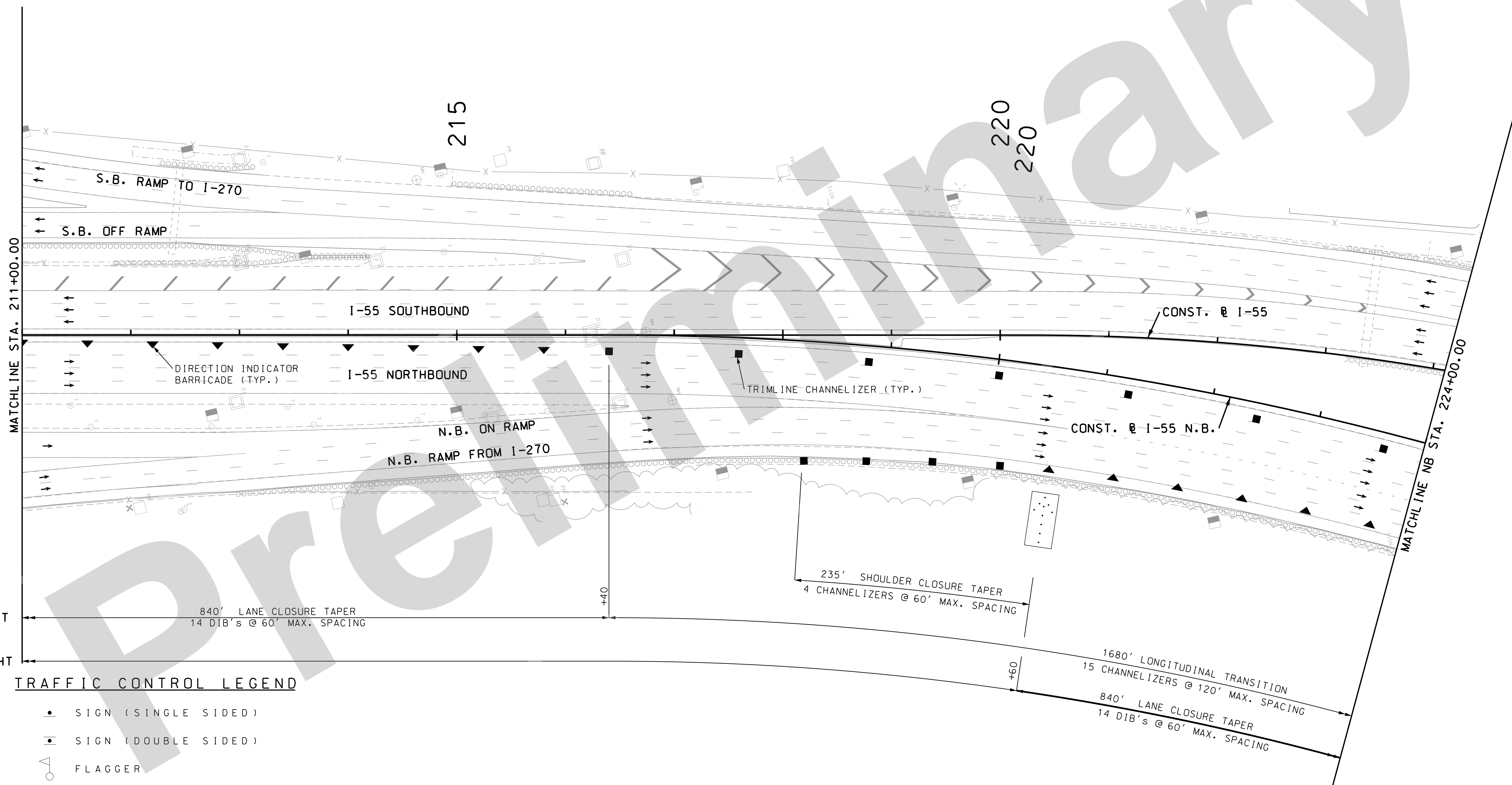
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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 ST. LOUIS, MISSOURI 63102-2121
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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 3 OF 31



TRAFFIC CONTROL LEGEND

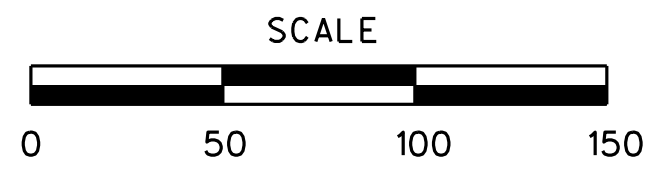
- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- △ FLAGGER
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STRIPING LEGEND

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REV.



TRAFFIC CONTROL LEGEND

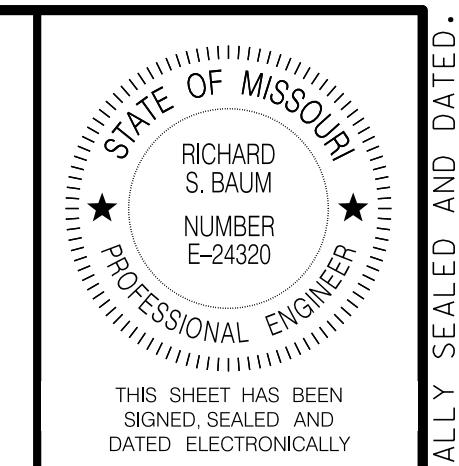
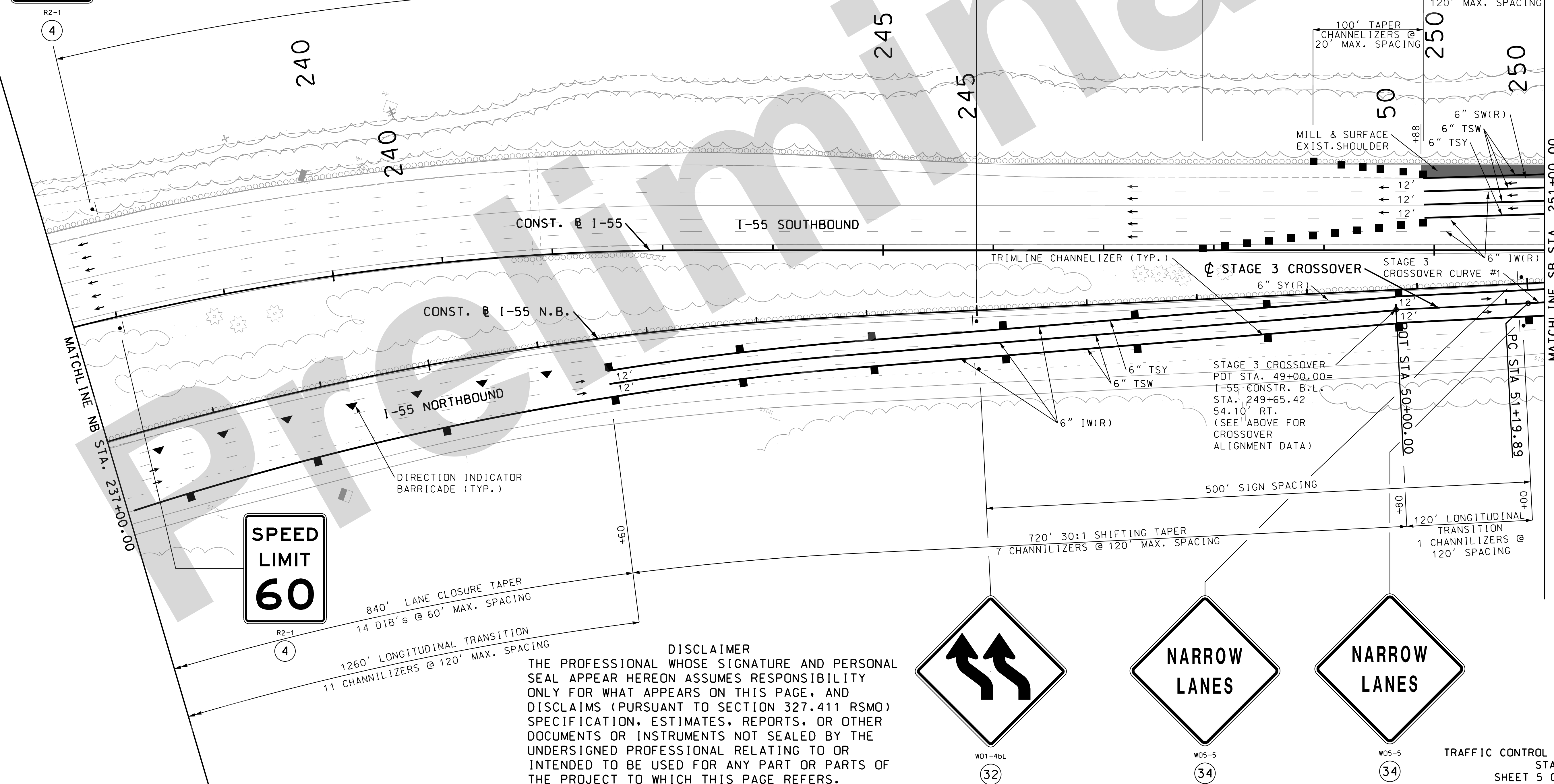
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CURVE 1 STAGE 3 CROSSOVER
 PI 52+40.33
 PC 51+19.89
 PRC 53+60.28
 Δ 9° 01' 54.7" (LT)
 D 3° 45' 25.6"
 L 240.39'
 T 120.45'
 R 1.525.00'



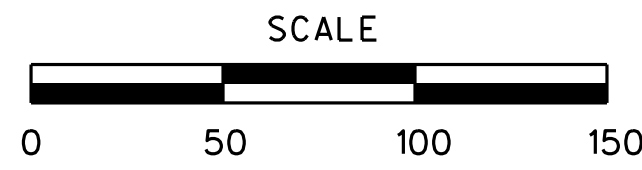
DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **156**
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

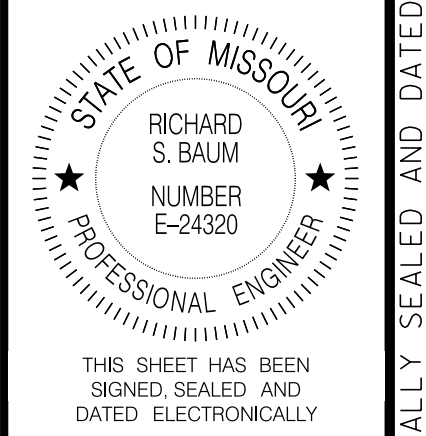
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL
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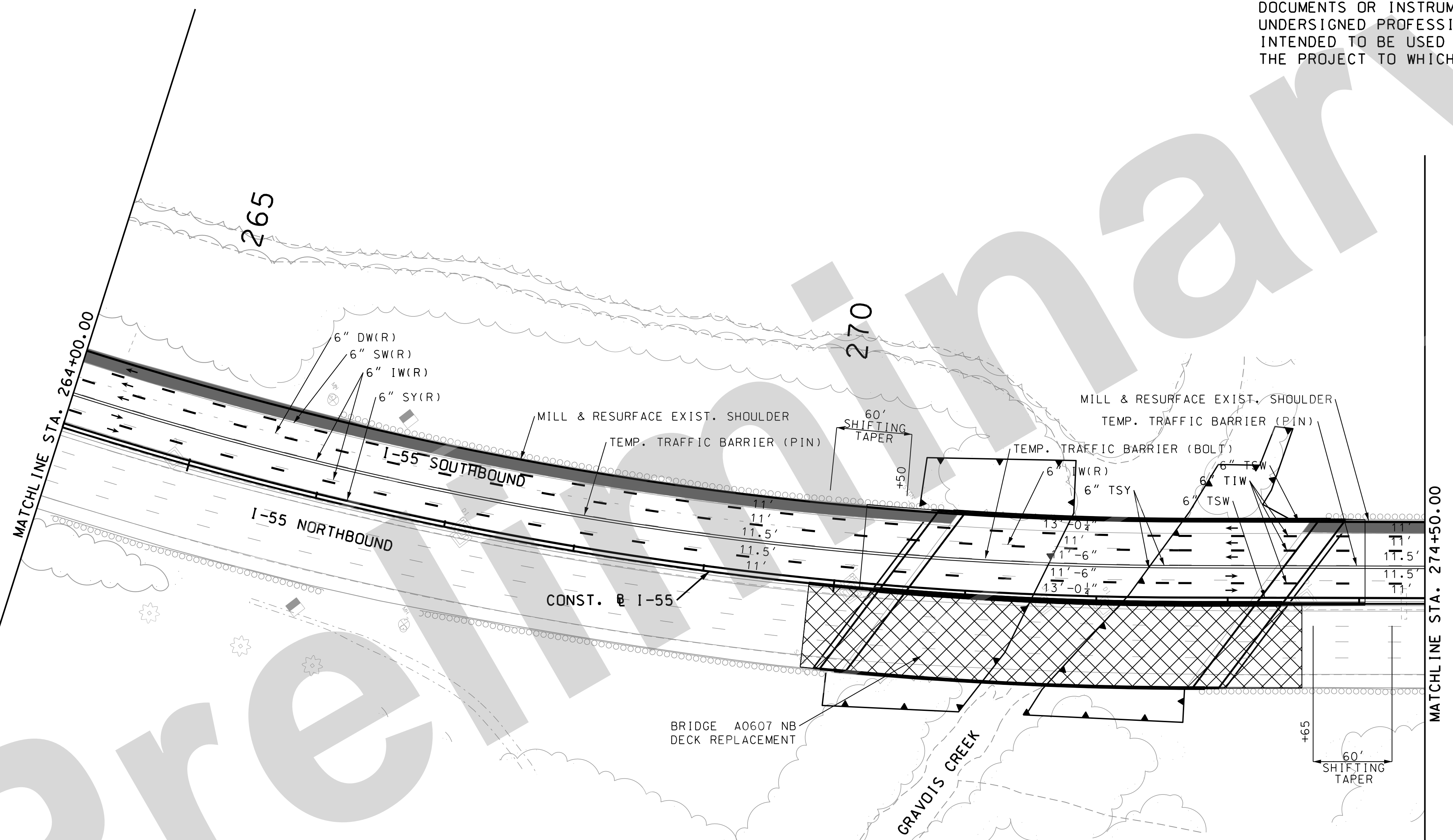
DATE PREPARED
05-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 158

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.



TRAFFIC CONTROL LEGEND

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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 7 OF 31

PROJECT NO.
 BRIDGE NO.

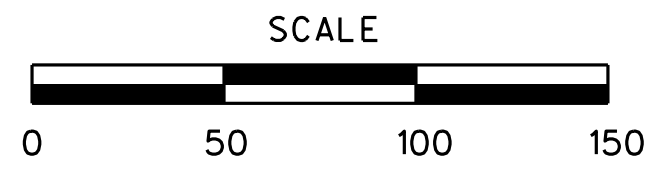
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

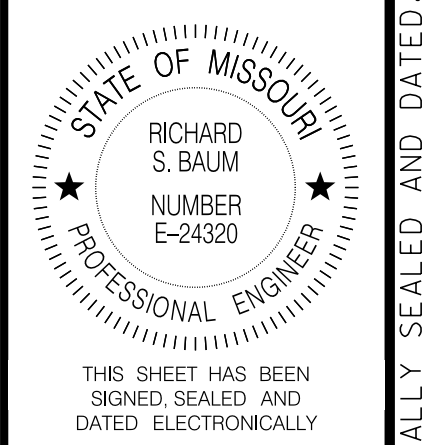
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

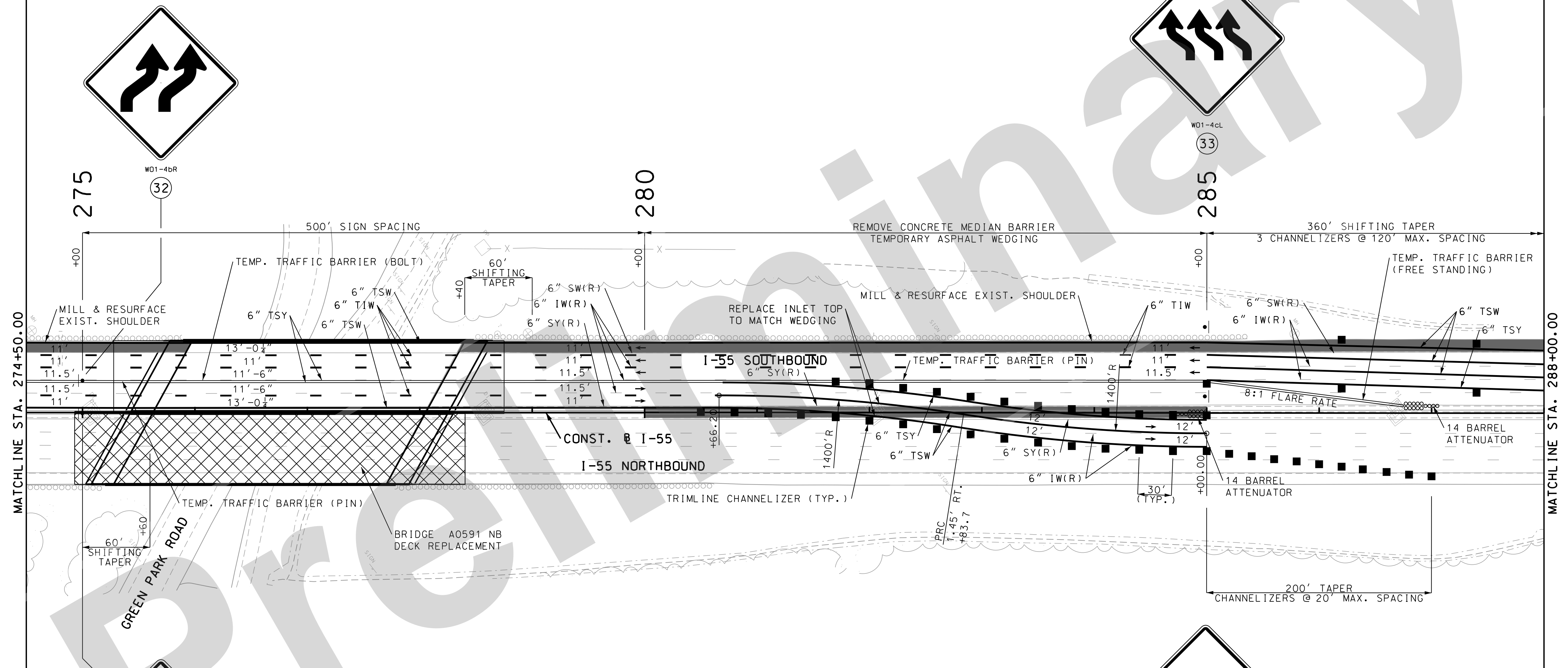
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 159
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- ▨ ARROW BOARD
- ▩ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

DESCRIPTION	DATE

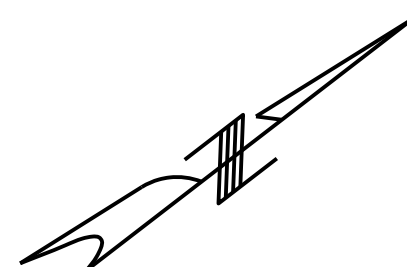
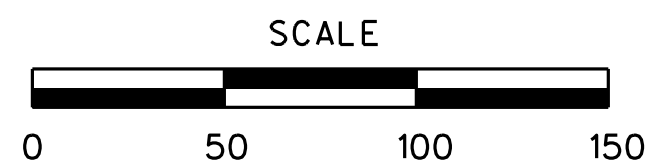
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

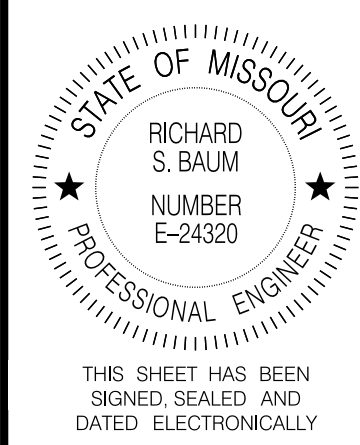
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JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 8 OF 31



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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 160
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

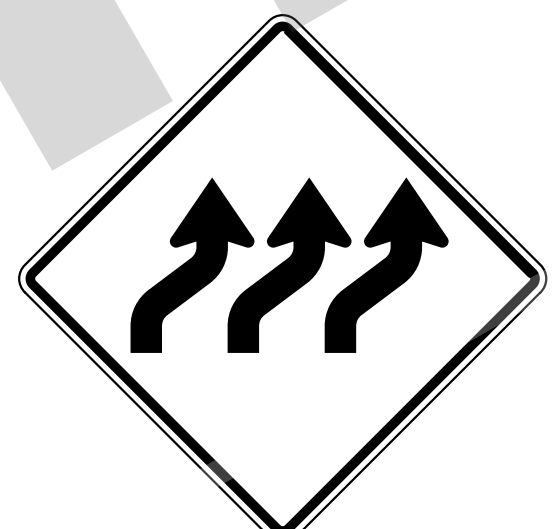
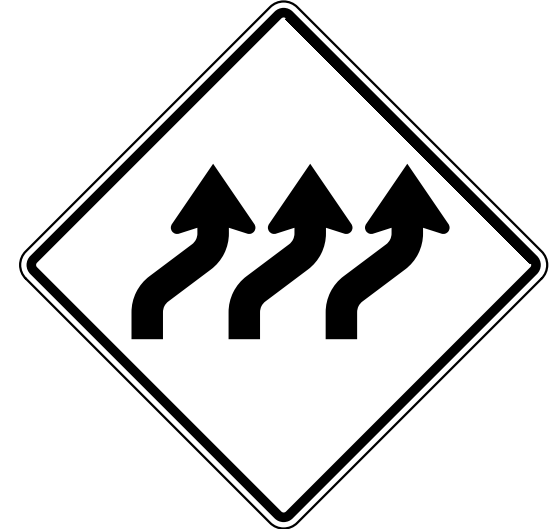
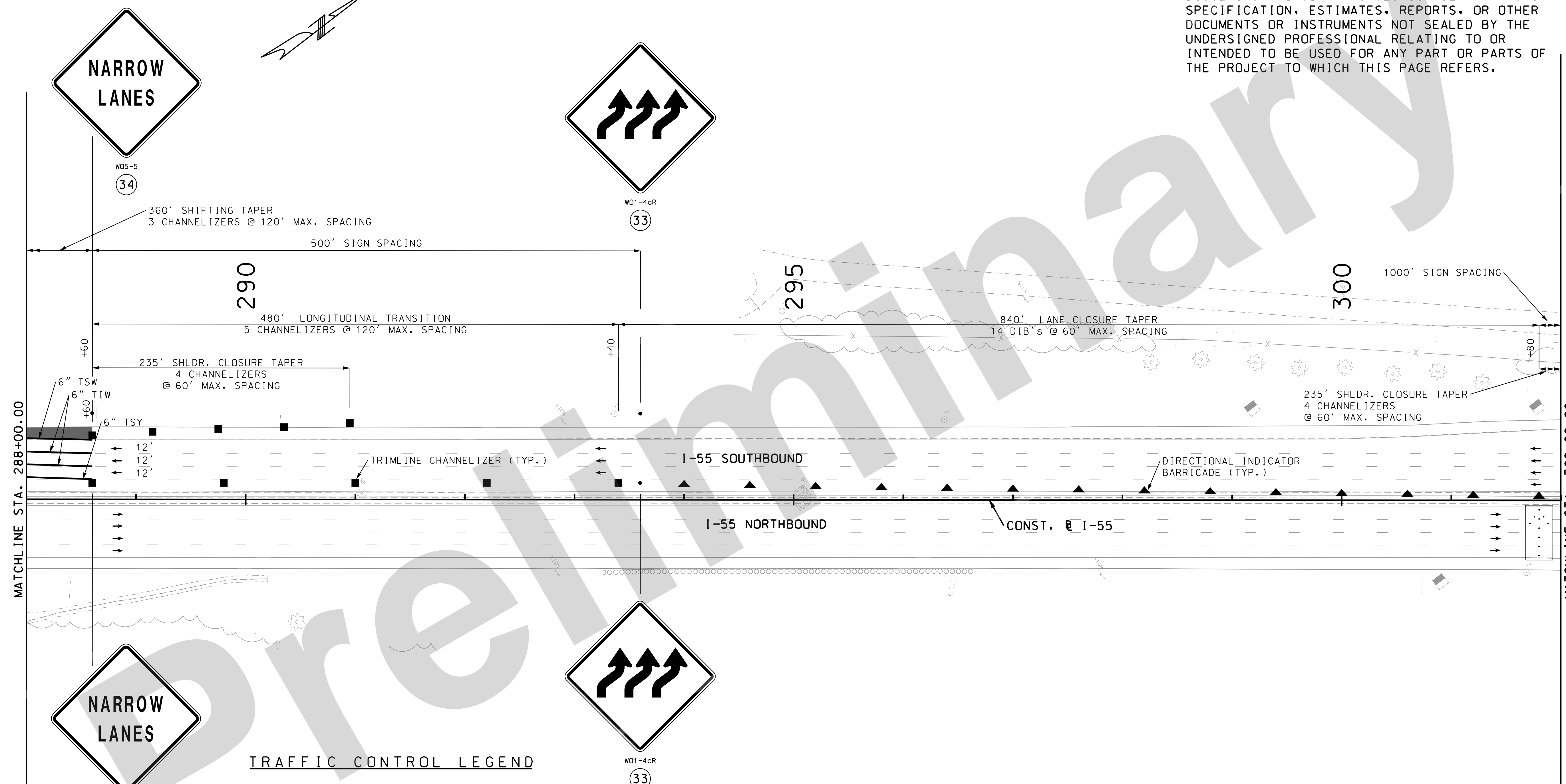
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 9 OF 31



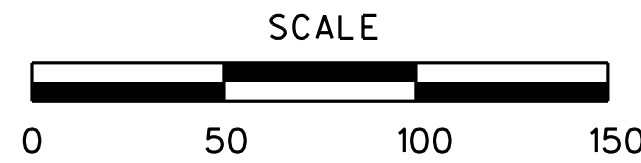
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

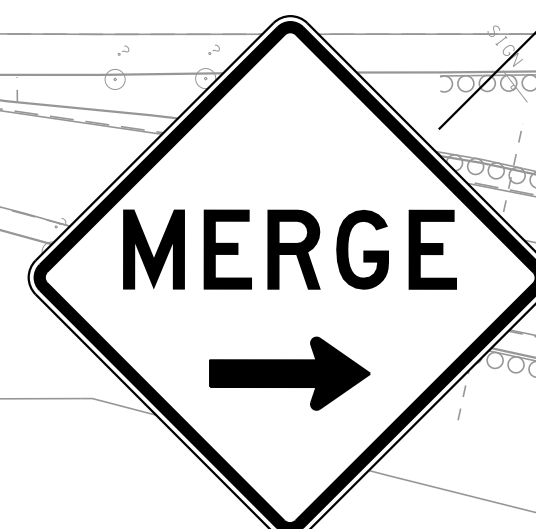
STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

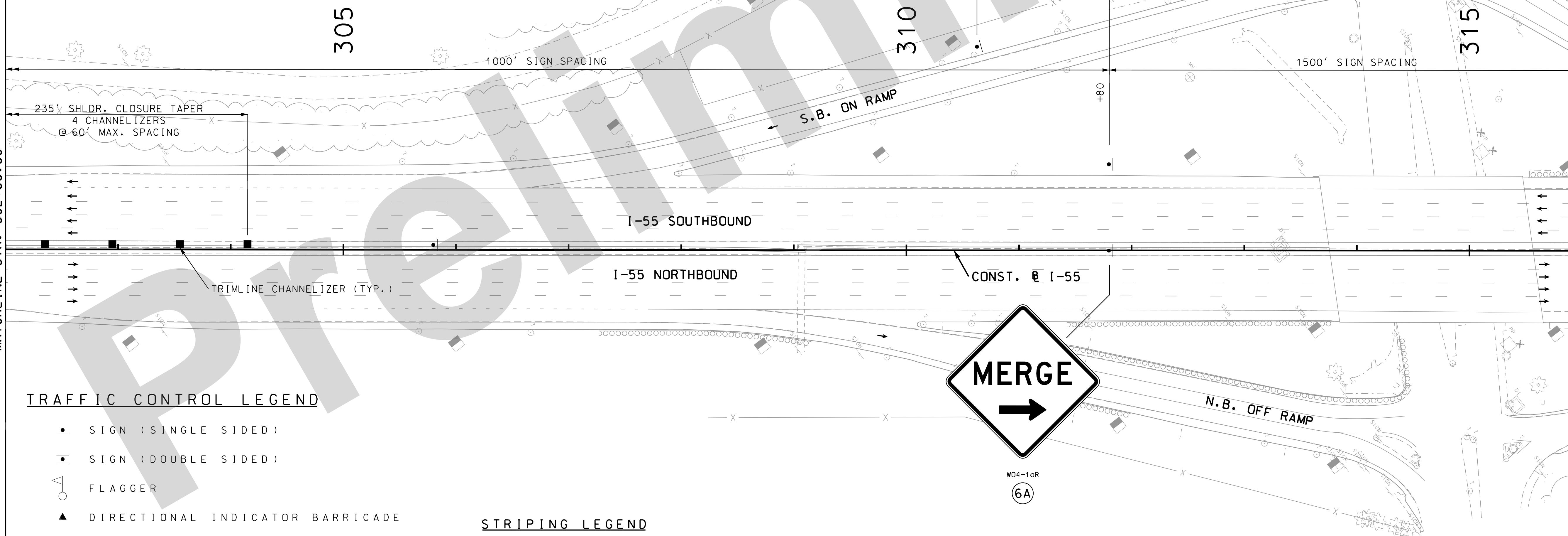


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MATCHLINE STA. 302+00.00

MATCHLINE STA. 316+00.00

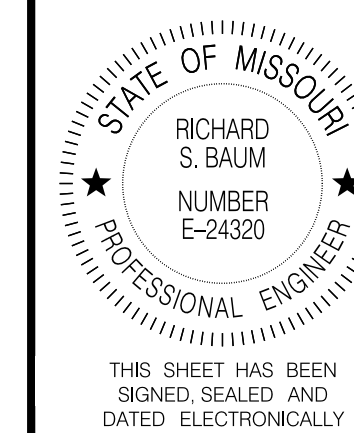


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
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- ☐ CHANGEABLE MESSAGE BOARD

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- IW = EXIST. INTERMITTENT WHITE
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THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 161

COUNTY

STL COUNTY/CITY

JOB NO.
J613187

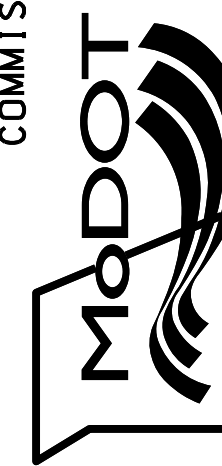
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

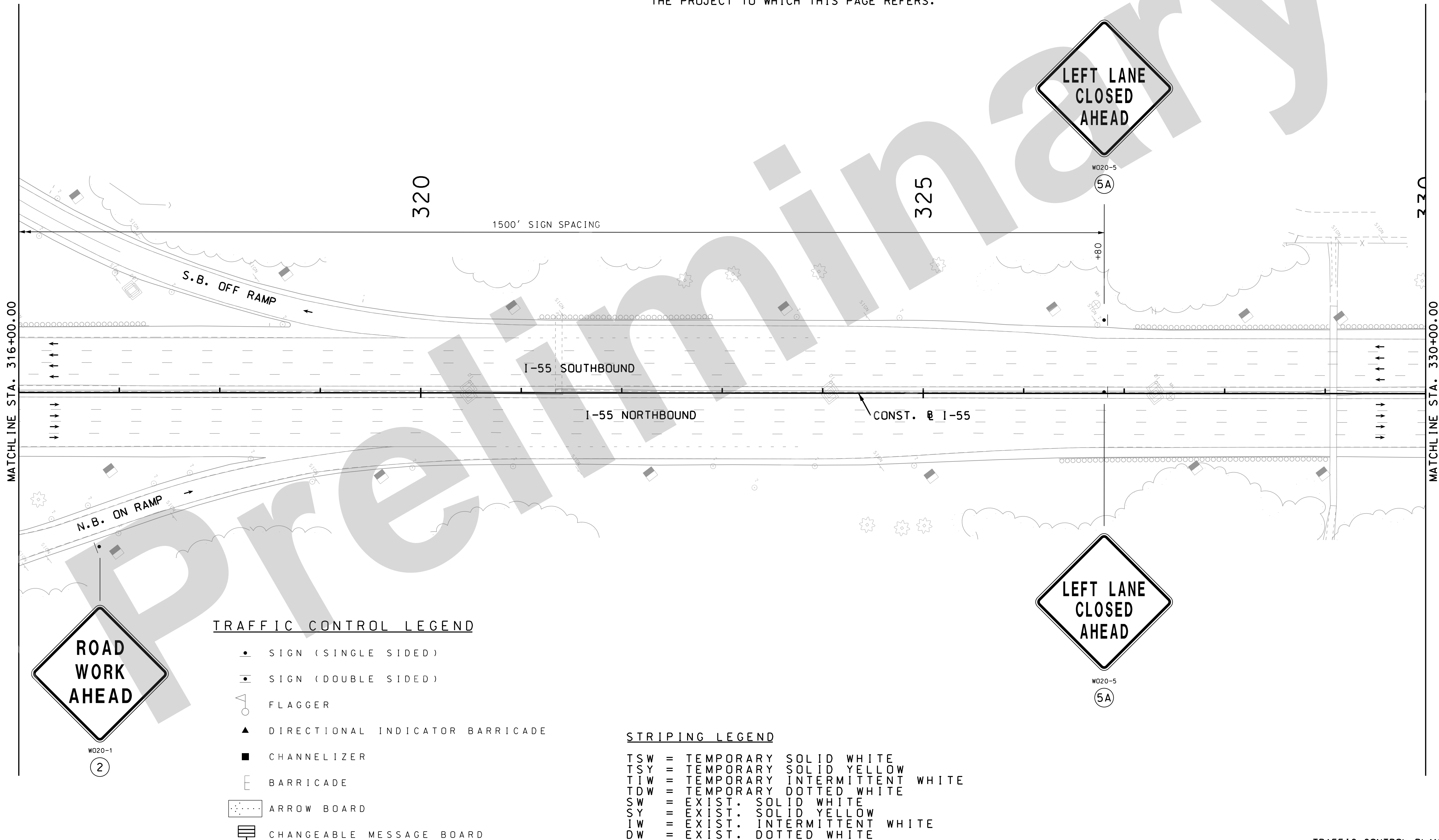
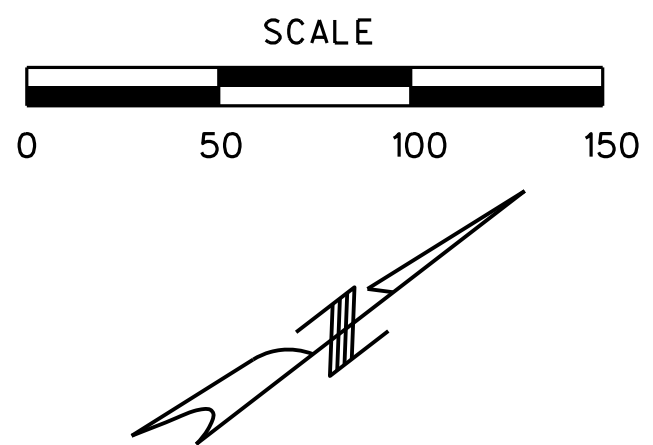
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
STAGE 3
SHEET 10 OF 31

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REV.

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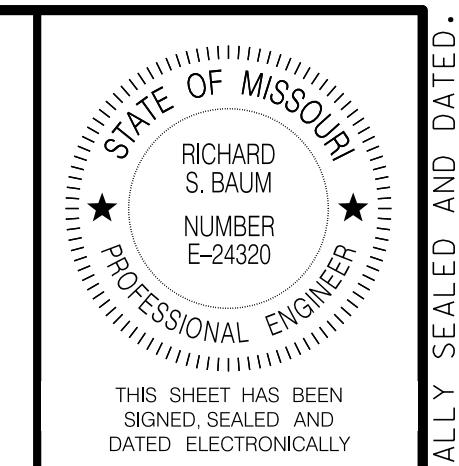


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ARROW BOARD
- CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	162

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

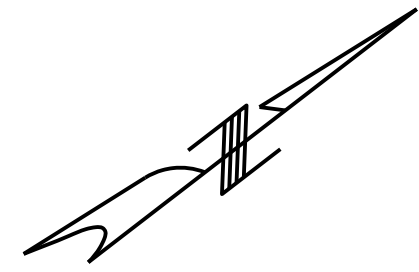
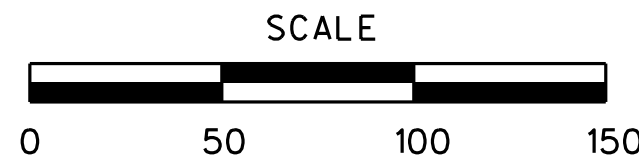
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

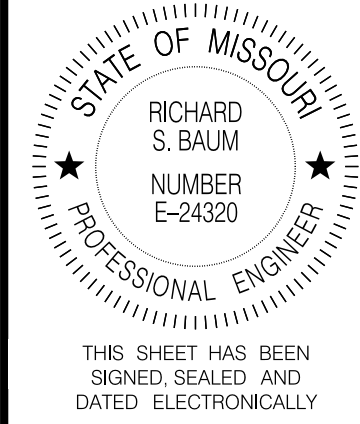
JACOBS ENGINEERING GROUP
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 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 11 OF 31

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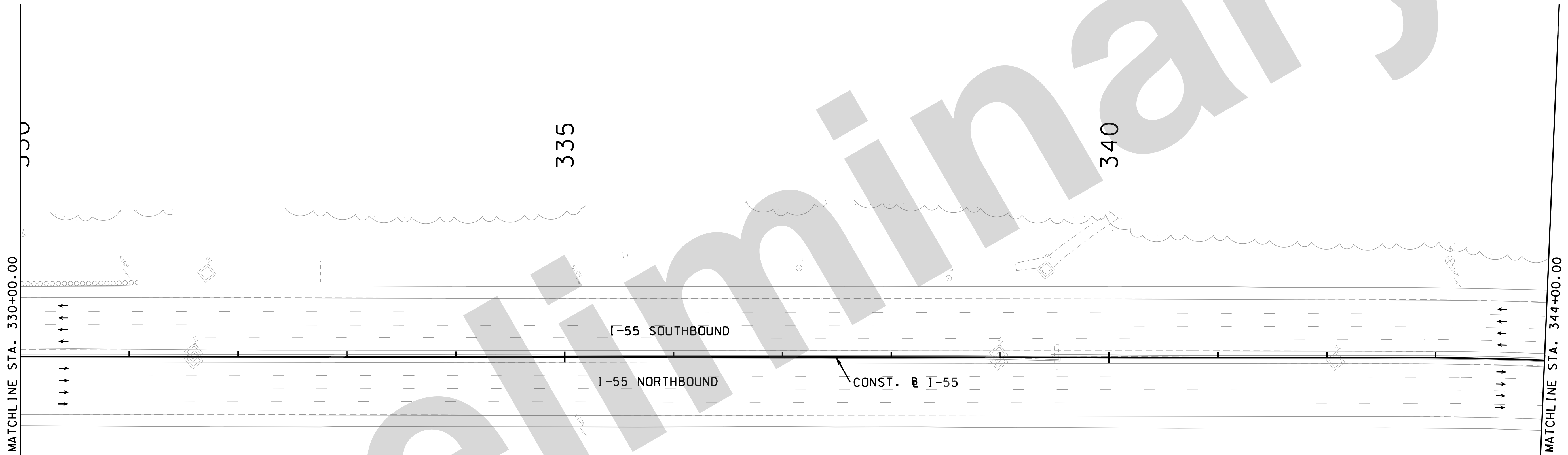


DATE PREPARED
 05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	163

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

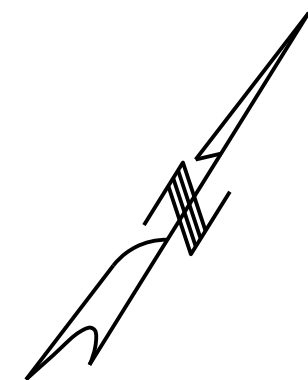
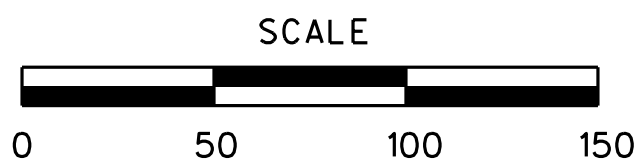
STRIPING LEGEND

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- DW = EXIST. DOTTED WHITE

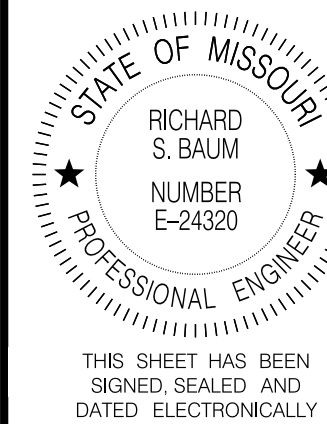
TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 12 OF 31

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 501 NORTH BROADWAY
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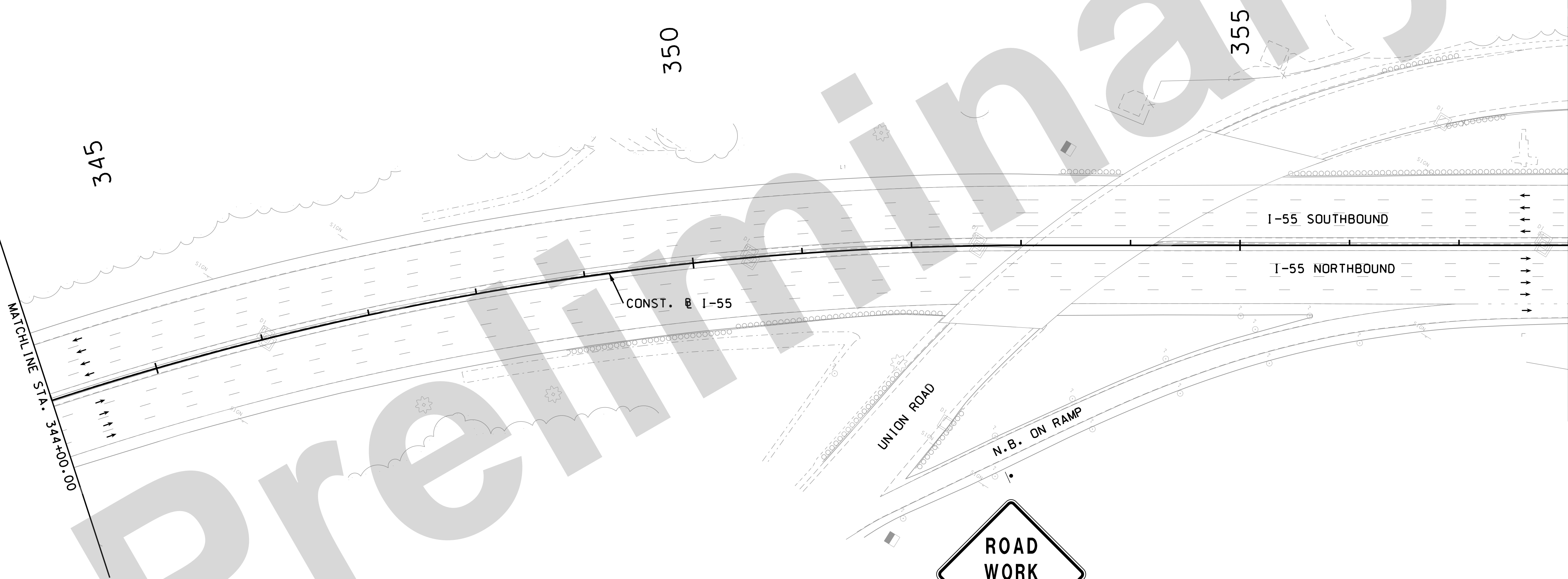
DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 164

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.



W020-1
 2

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
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- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 13 OF 31

MATCHLINE STA. 358+00.00

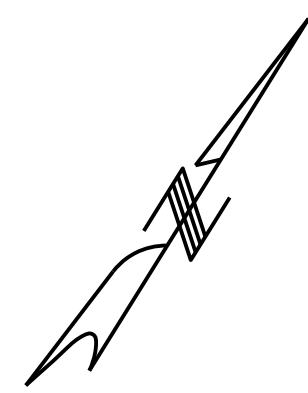
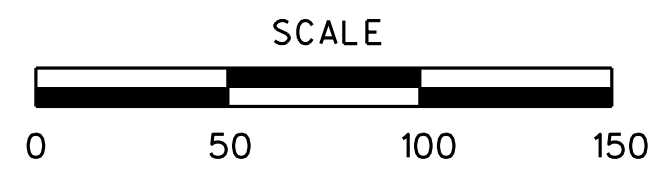
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

DATE	DESCRIPTION

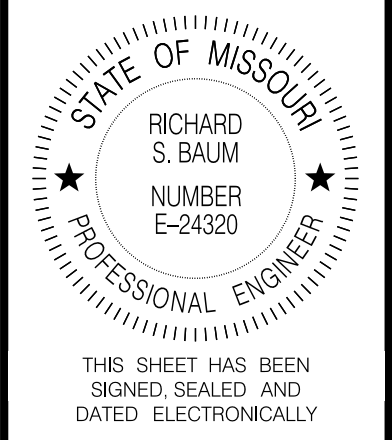
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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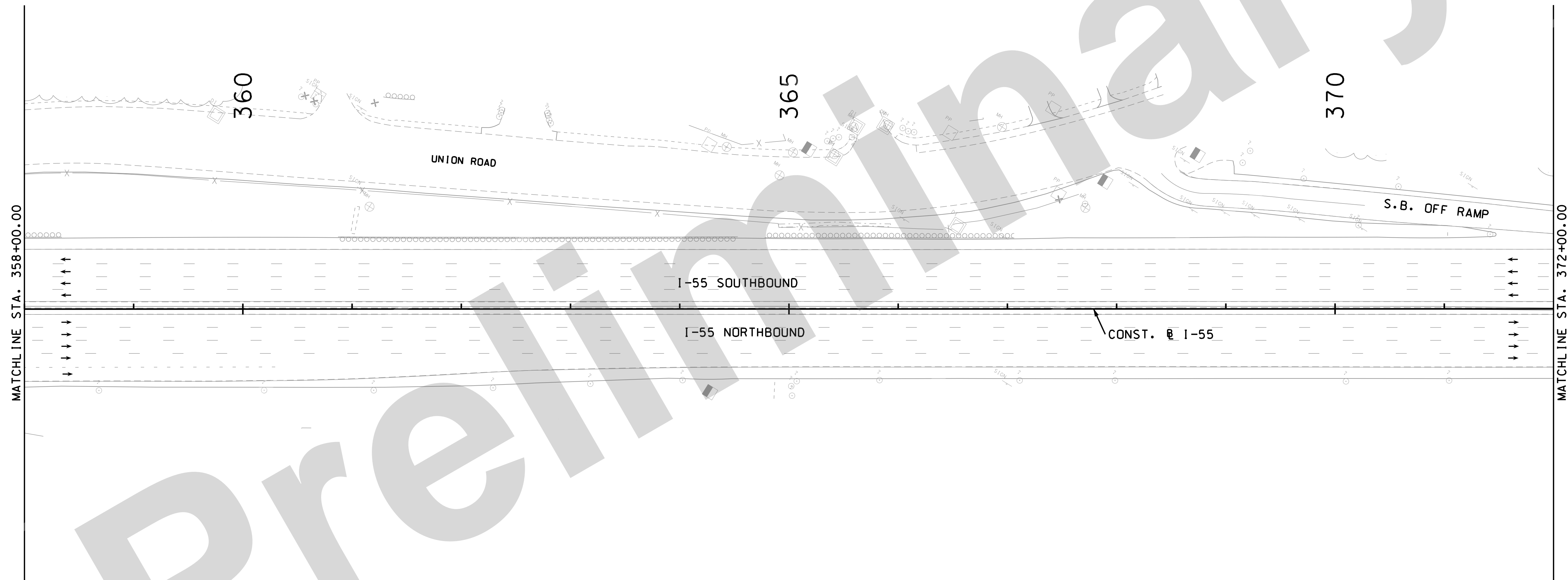


DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 165

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◯ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⊃ BARRICADE
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- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 14 OF 31

DATE	DESCRIPTION

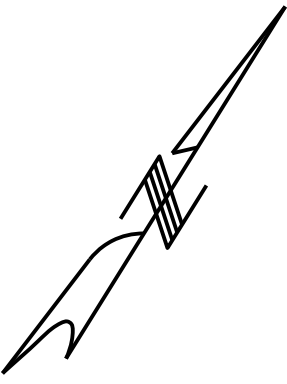
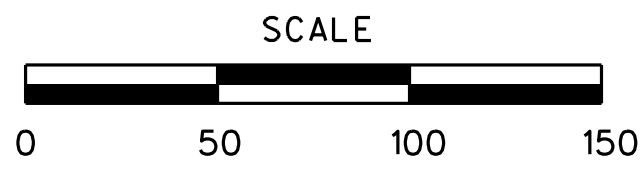
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

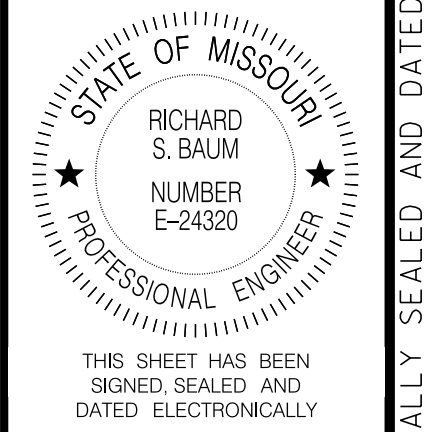
Jacobs

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 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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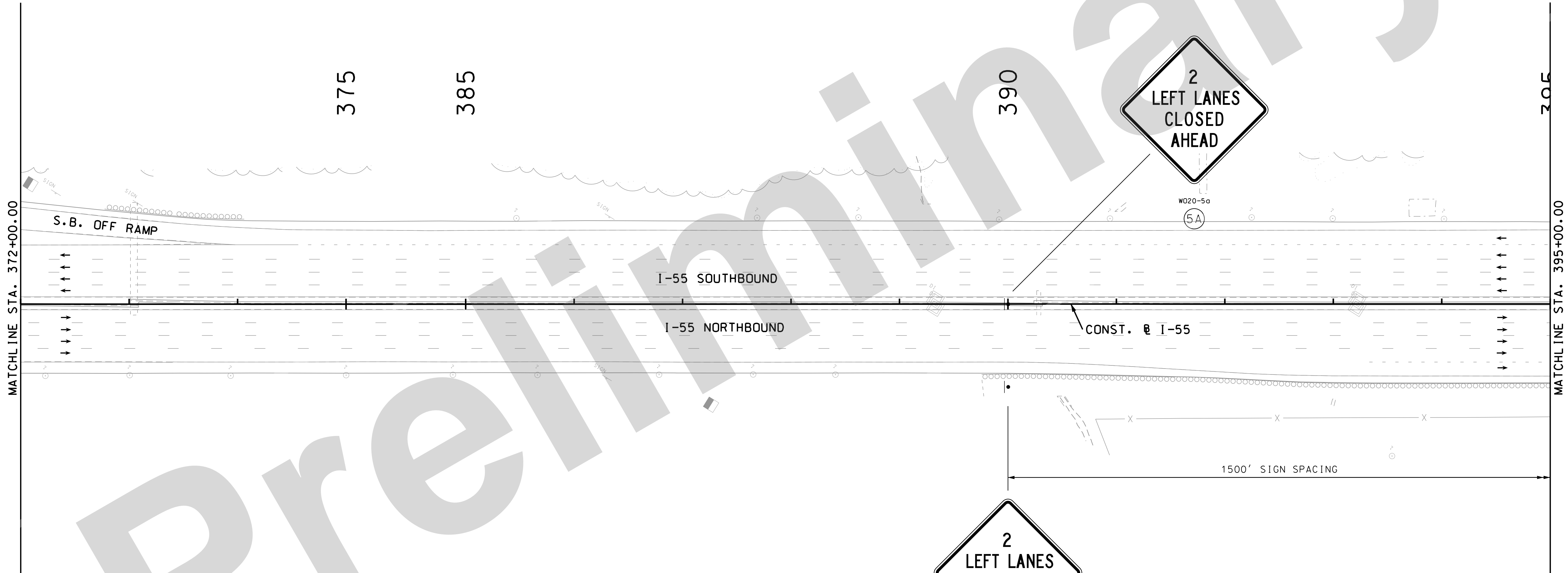
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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 166
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
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- ⌈ BARRICADE
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- ▭ CHANGEABLE MESSAGE BOARD

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DATE	DESCRIPTION

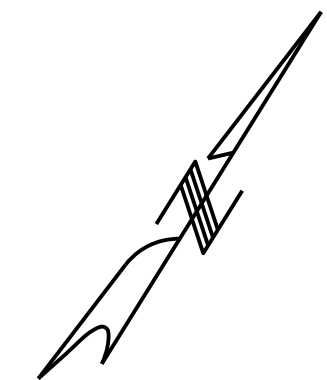
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

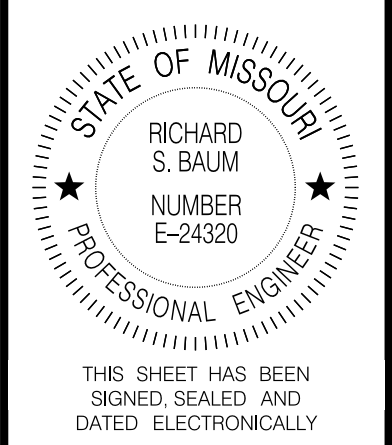
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 PHONE: (314) 335-4000
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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 15 OF 31

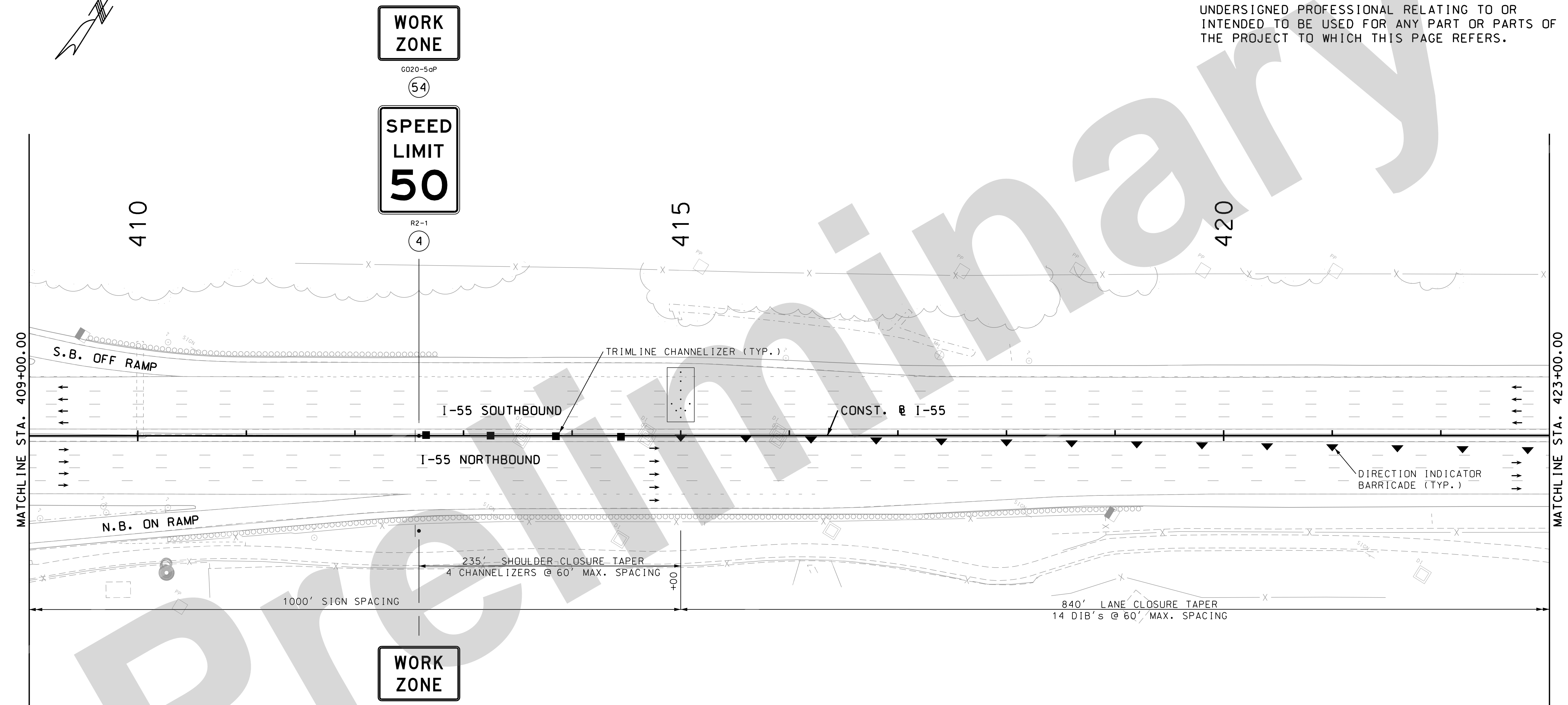
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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 168
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

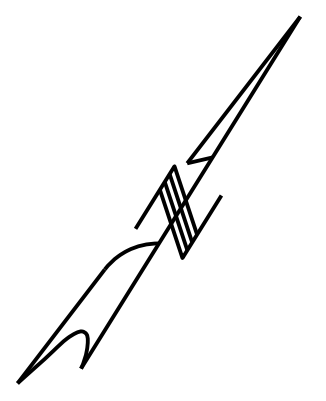
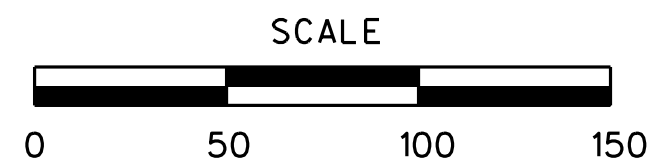
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

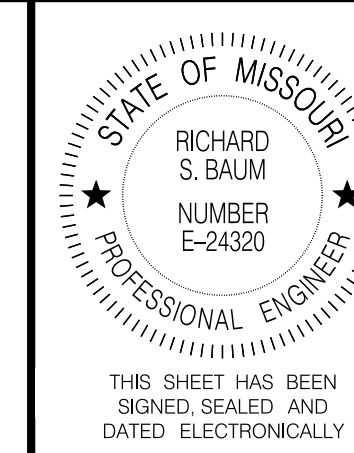
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 17 OF 31

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 169

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

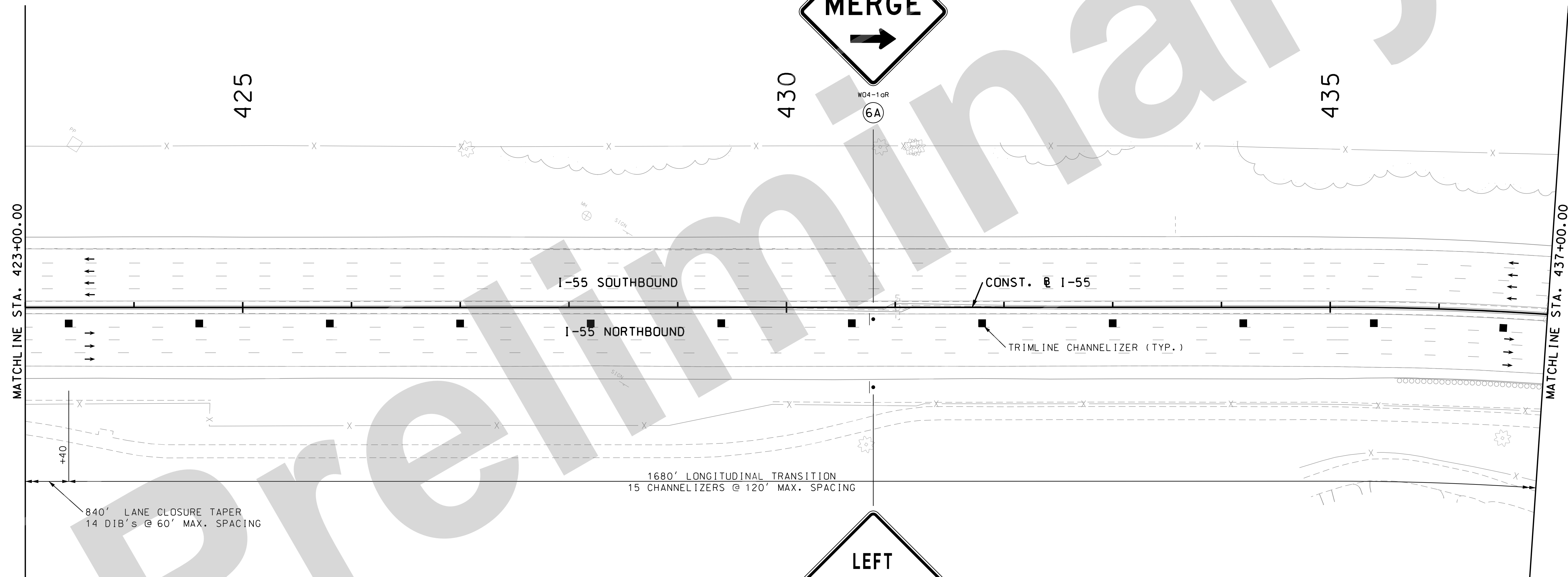
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

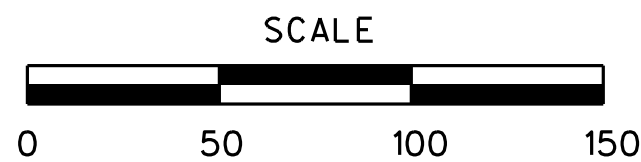
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- ◐ SIGN (DOUBLE SIDED)
- ◌ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

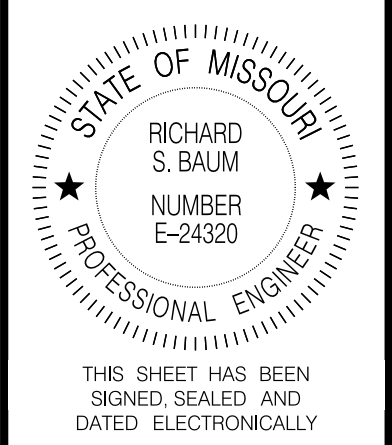
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- TSY = TEMPORARY SOLID YELLOW
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- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 18 OF 31

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

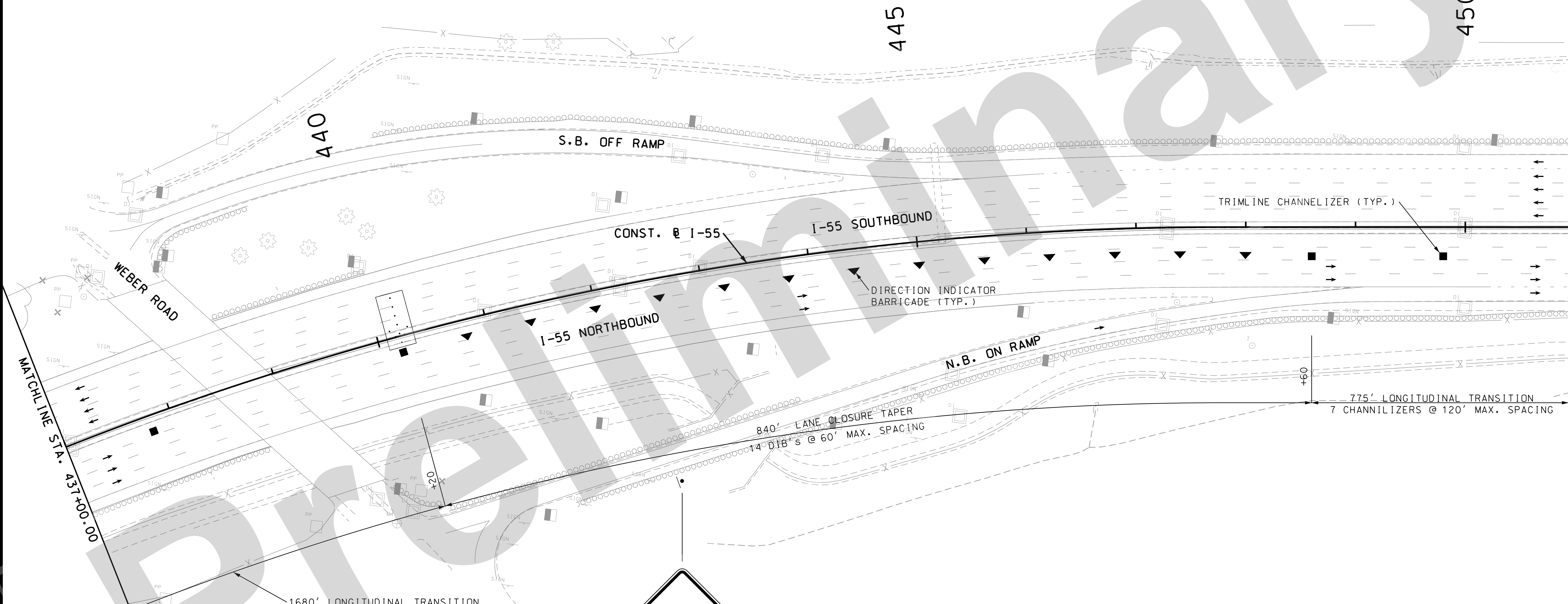


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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 170
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.



MATCHLINE STA. 451+00.00

MATCHLINE STA. 431+00.00

STRIPING LEGEND

TSW	=	TEMPORARY SOLID WHITE
TSY	=	TEMPORARY SOLID YELLOW
TIW	=	TEMPORARY INTERMITTENT WHITE
TDW	=	TEMPORARY DOTTED WHITE
SW	=	EXIST. SOLID WHITE
SY	=	EXIST. SOLID YELLOW
IW	=	EXIST. INTERMITTENT WHITE
DW	=	EXIST. DOTTED WHITE



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⊞ BARRICADE
- ◻ ARROW BOARD
- ⊞ CHANGEABLE MESSAGE BOARD

DATE	DESCRIPTION

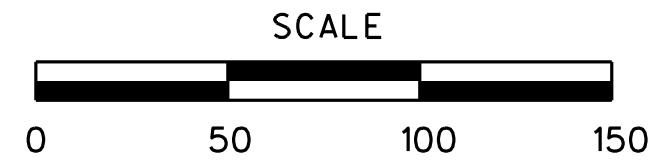
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 19 OF 31

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



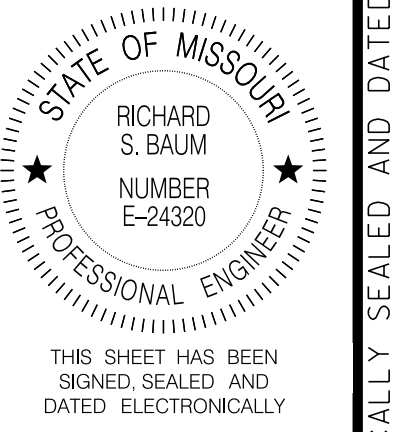
STRIPING LEGEND

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- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

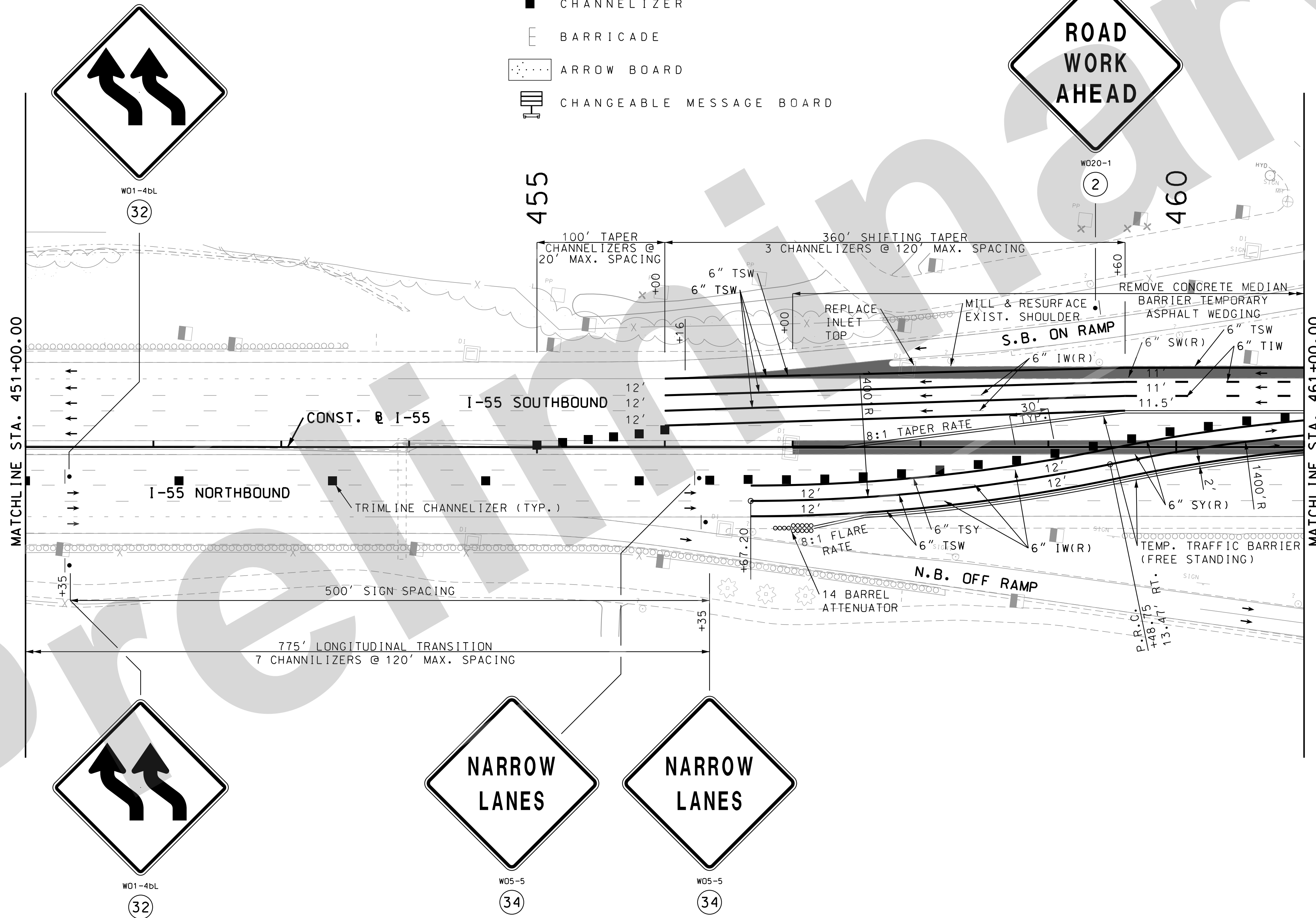
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
- ◻ ARROW BOARD
- ▨ CHANGEABLE MESSAGE BOARD

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DATE PREPARED	
05-AUG-2021	
ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	171
COUNTY	
STL COUNTY/CITY	
JOB NO.	
J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



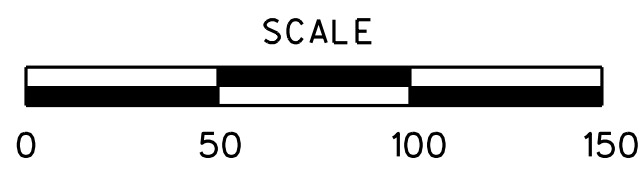
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

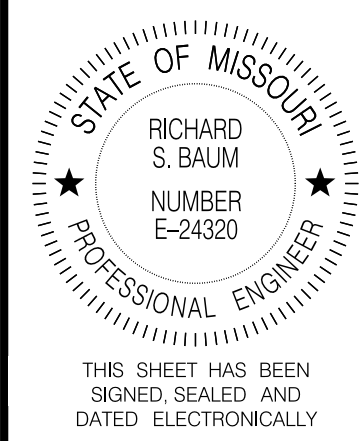
Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 20 OF 31



SCALE

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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 172

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

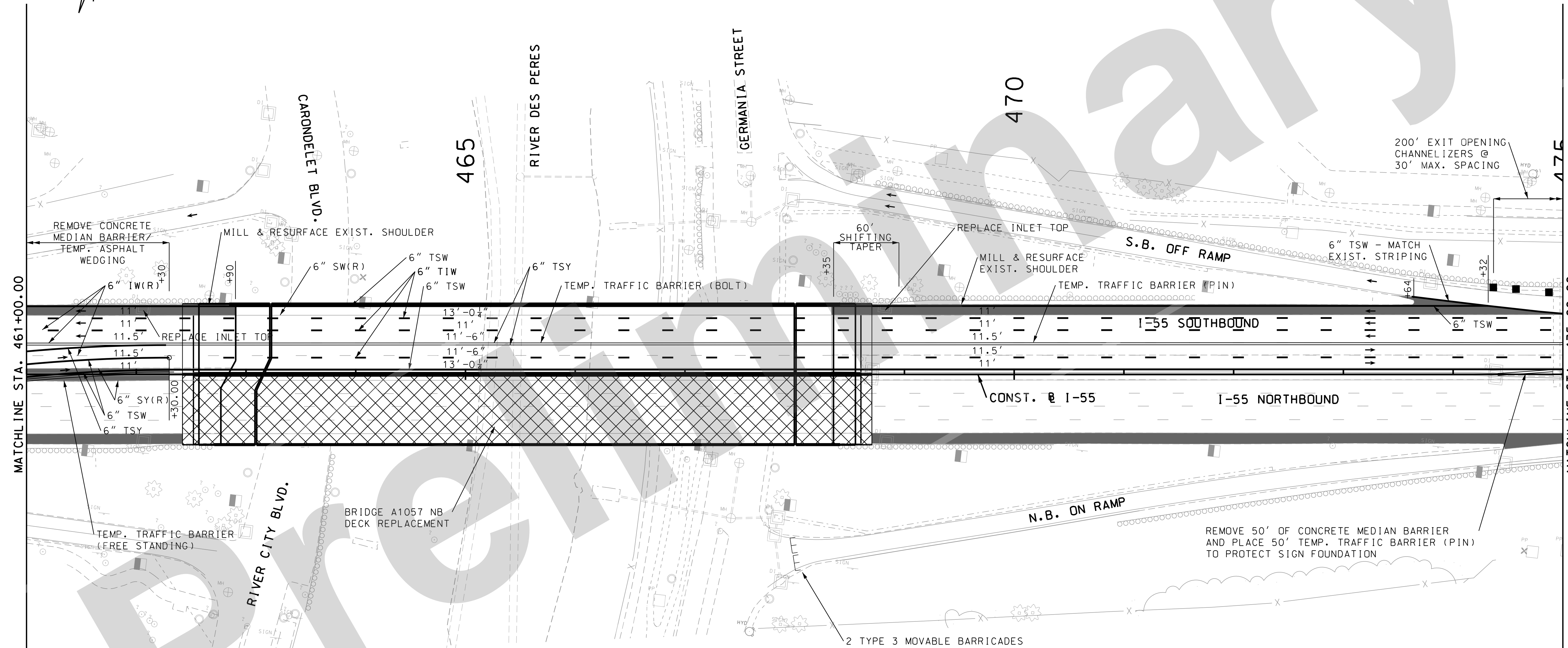
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

TRAFFIC CONTROL PLAN
STAGE 3
SHEET 21 OF 31

JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

REV.

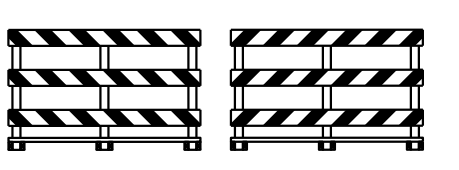


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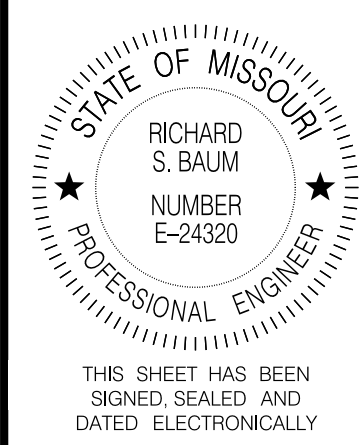
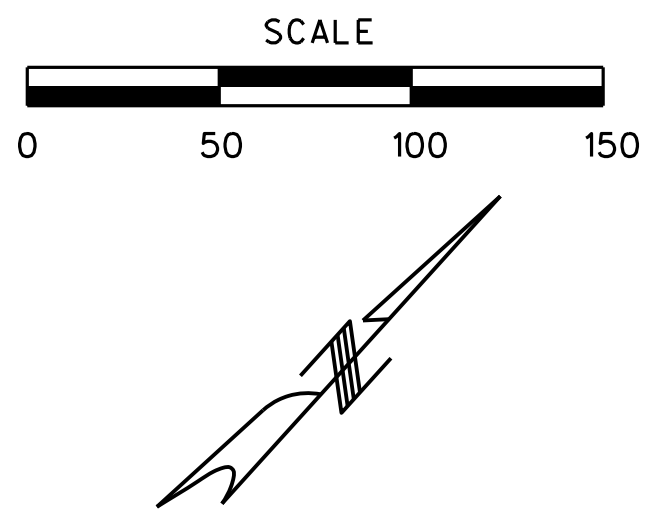
- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- △ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ARROW BOARD
- CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



R11-2
(29)



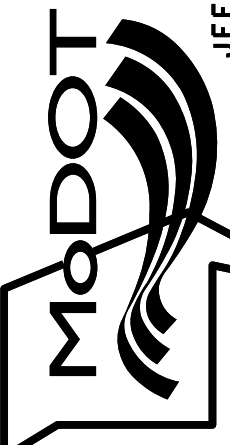
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 174
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

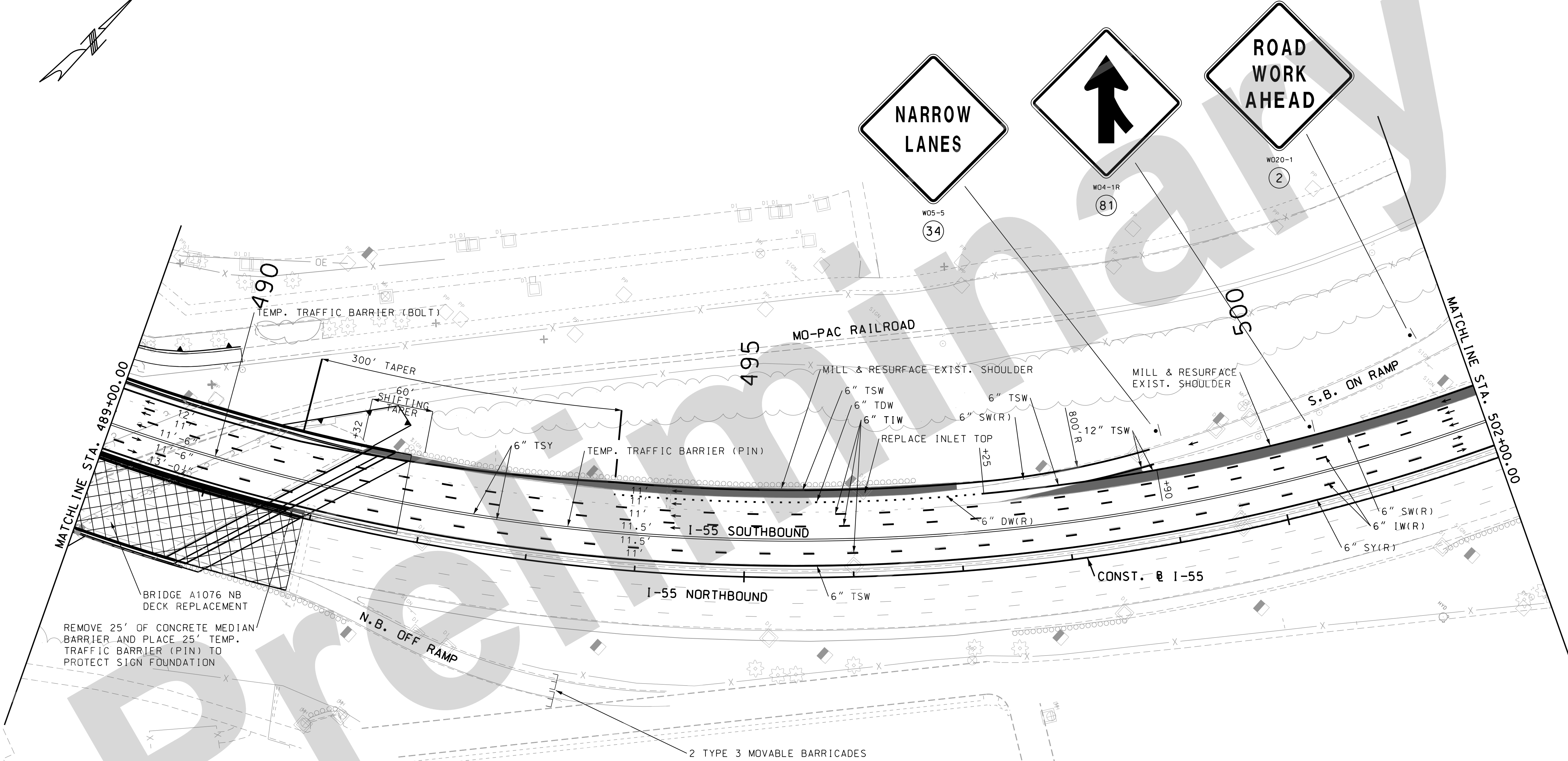
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION











105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)



JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

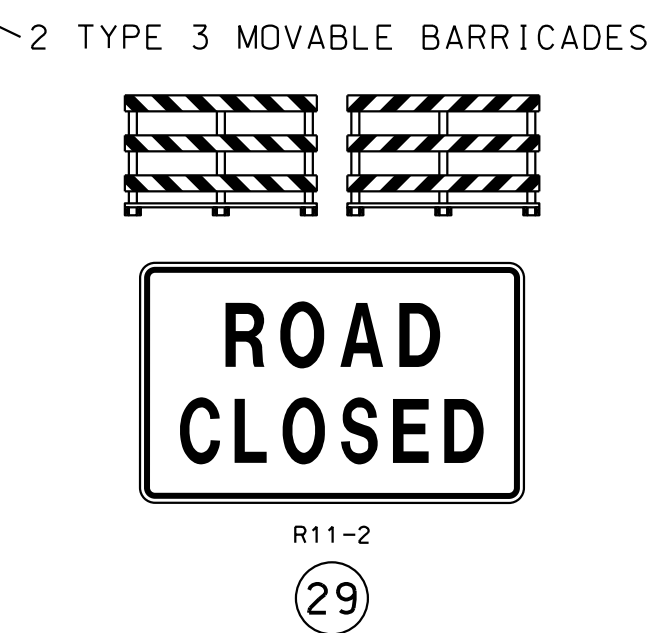


TRAFFIC CONTROL LEGEND

-  SIGN (SINGLE SIDED)
-  SIGN (DOUBLE SIDED)
-  FLAGGER
-  DIRECTIONAL INDICATOR BARRICADE
-  CHANNELIZER
-  BARRICADE
-  ARROW BOARD
-  CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

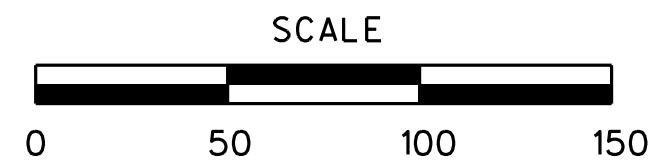
- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



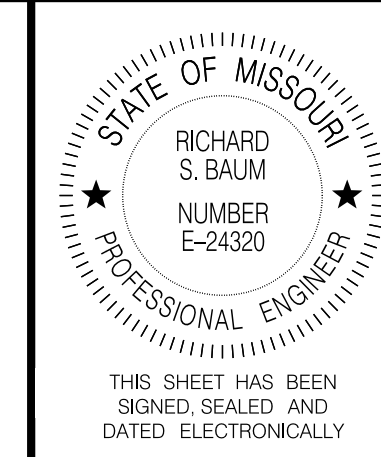
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TRAFFIC CONTROL PLAN
STAGE 3
SHEET 23 OF 31

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021
ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 175
COUNTY
STL COUNTY/CITY
JOB NO.
J613187
CONTRACT ID.

PROJECT NO.

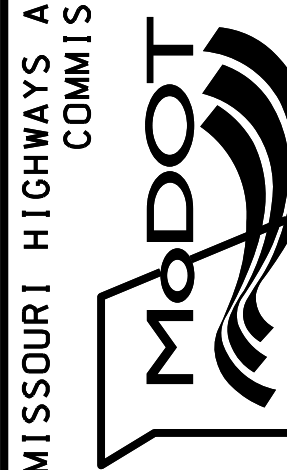
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

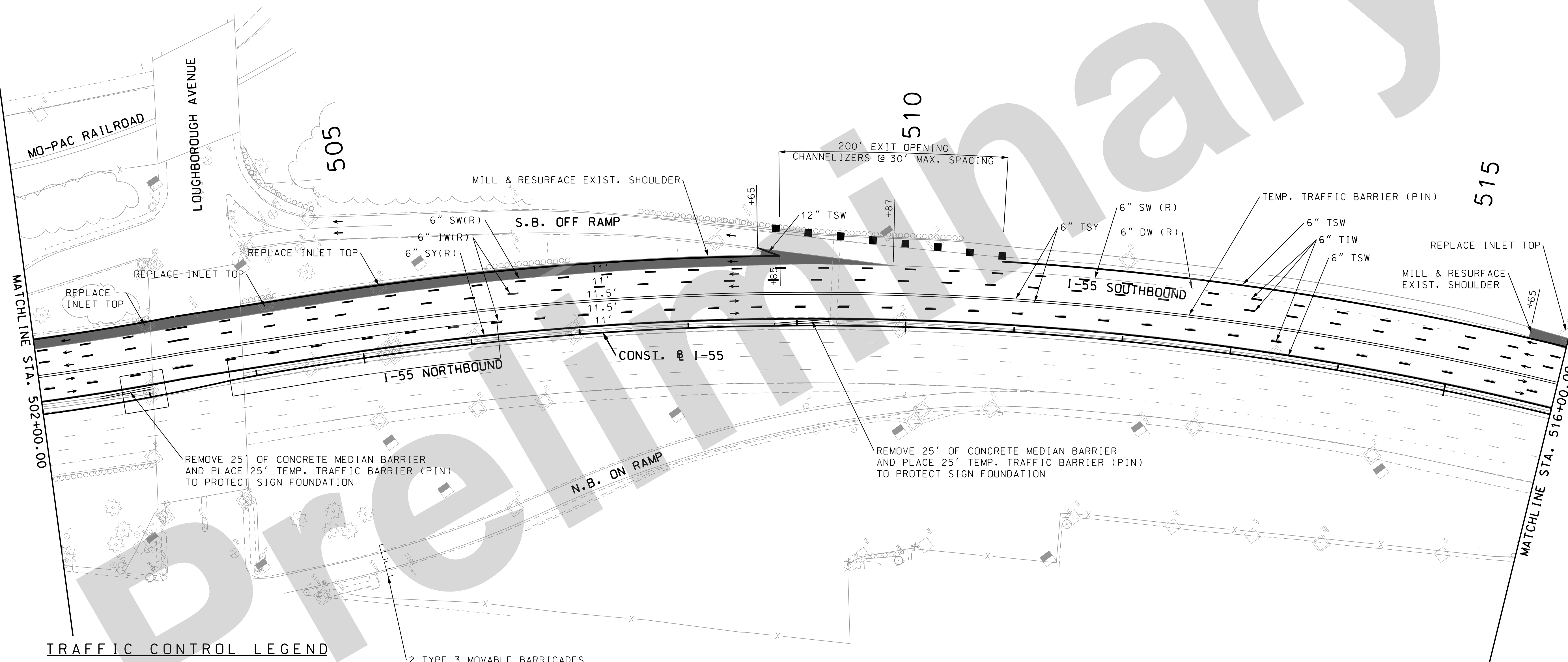
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

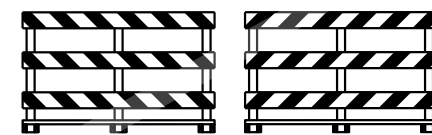
TRAFFIC CONTROL PLAN
STAGE 3
SHEET 24 OF 31



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

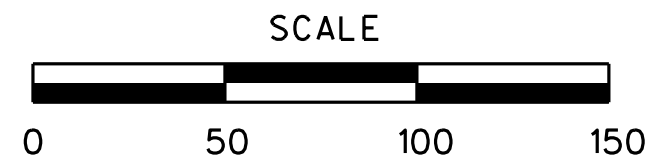
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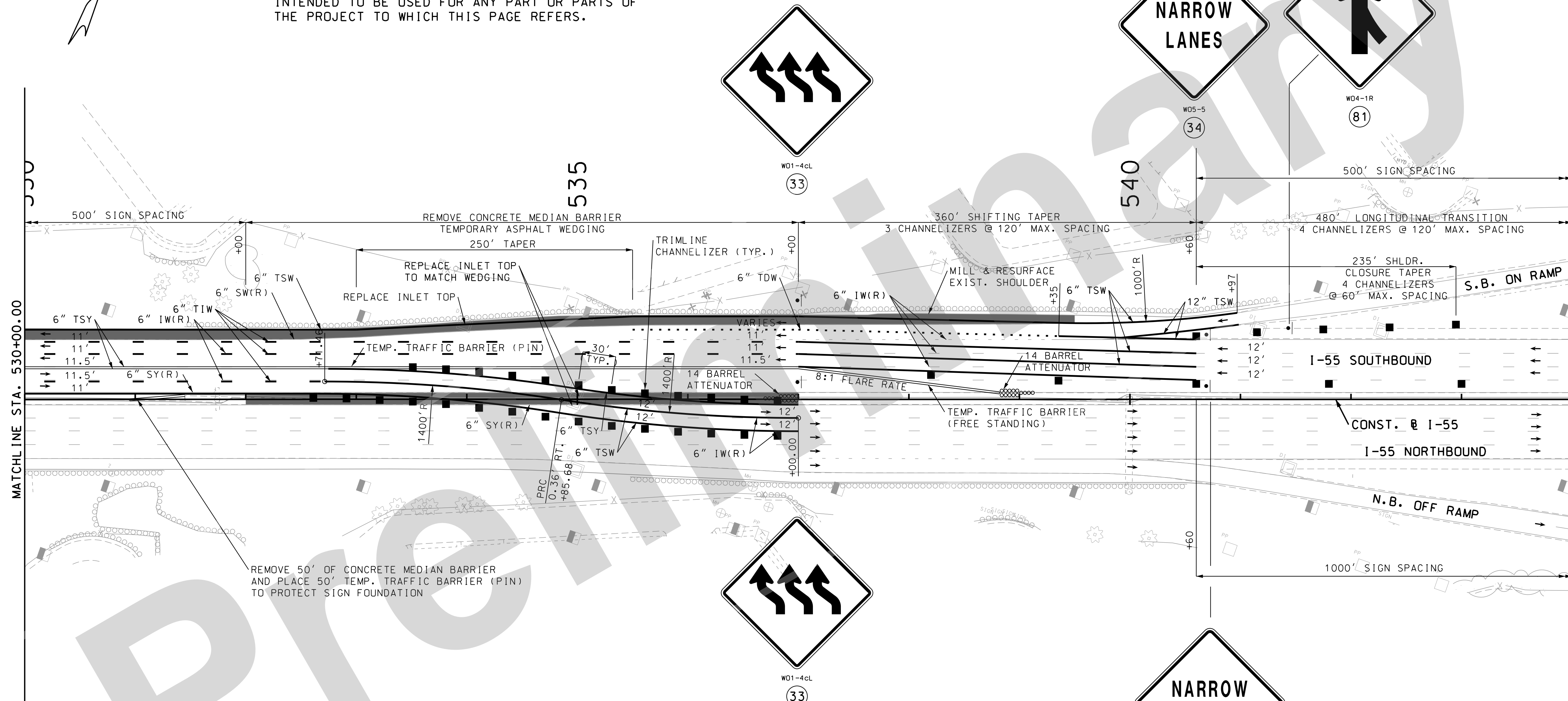
R11-2
29

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



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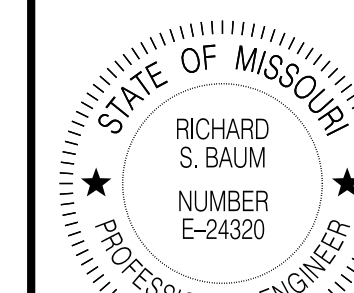


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- BARRICADE
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- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT SL SHEET NO. 177

COUNTY

STL COUNTY/CITY

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



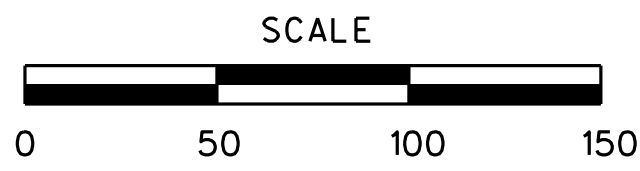
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

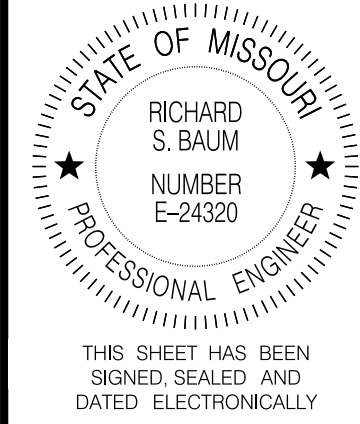
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
STAGE 3
SHEET 26 OF 31

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 179

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

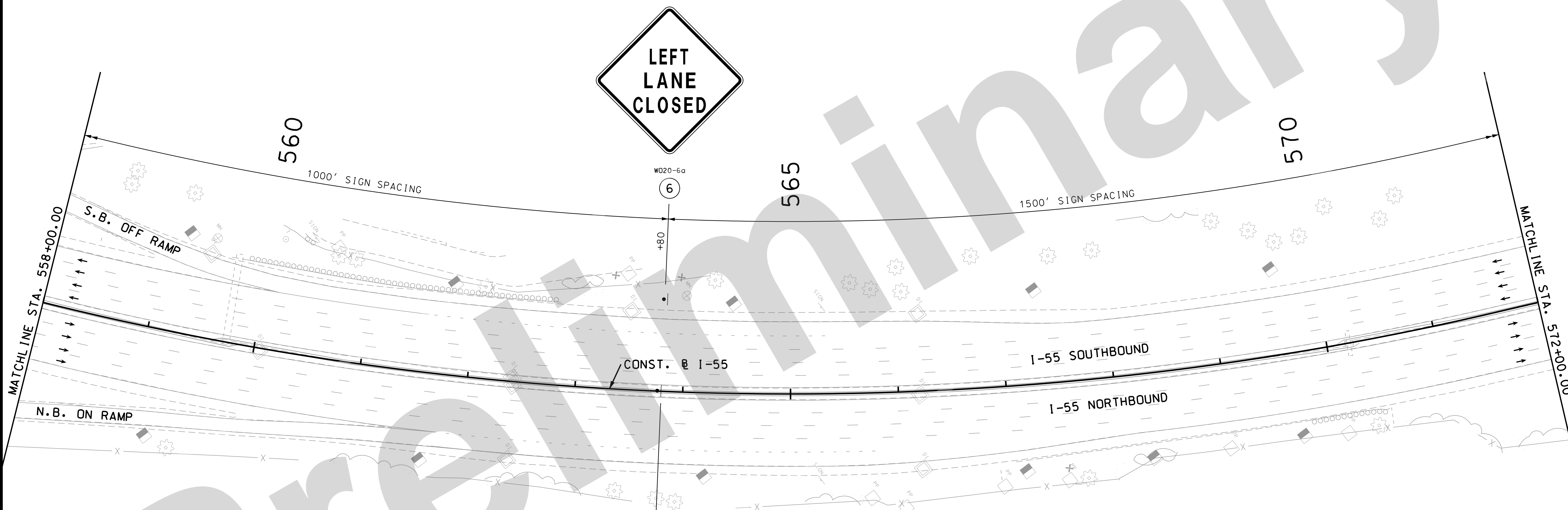
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

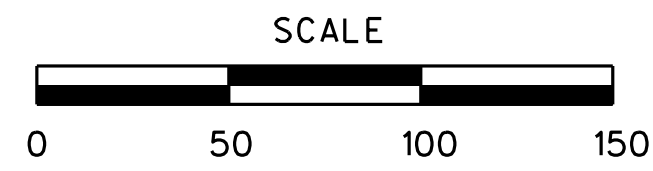
- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

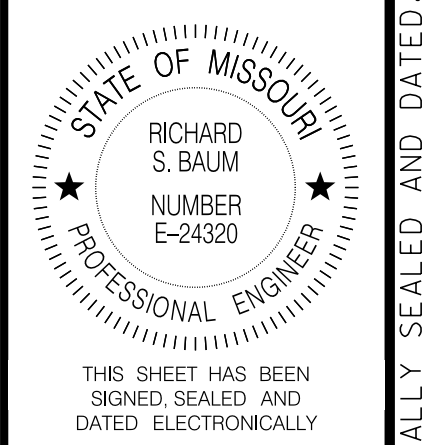
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- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 28 OF 31

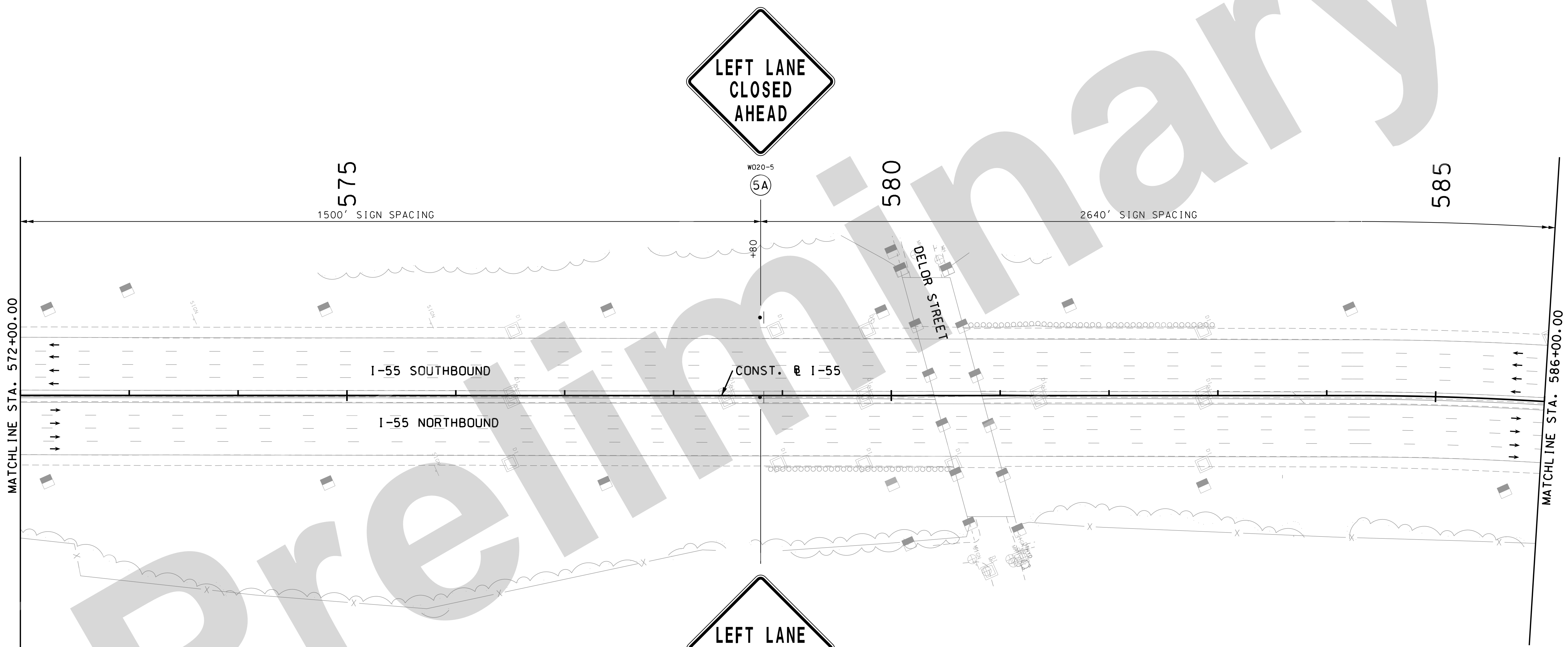
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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 180
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 3
 SHEET 29 OF 31

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

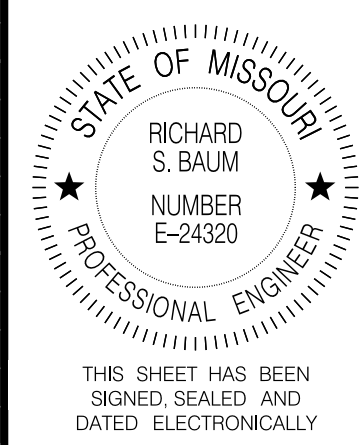
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PRELIMINARY SHEET NOT USED



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE STATE
1-55 MO
DISTRICT SHEET NO.
SL 184

COUNTY
STL COUNTY/CITY

JOB NO.
J613187
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

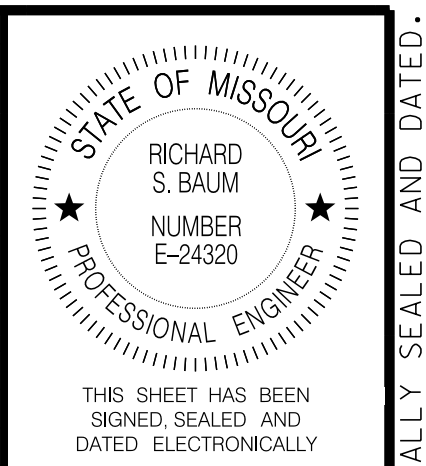
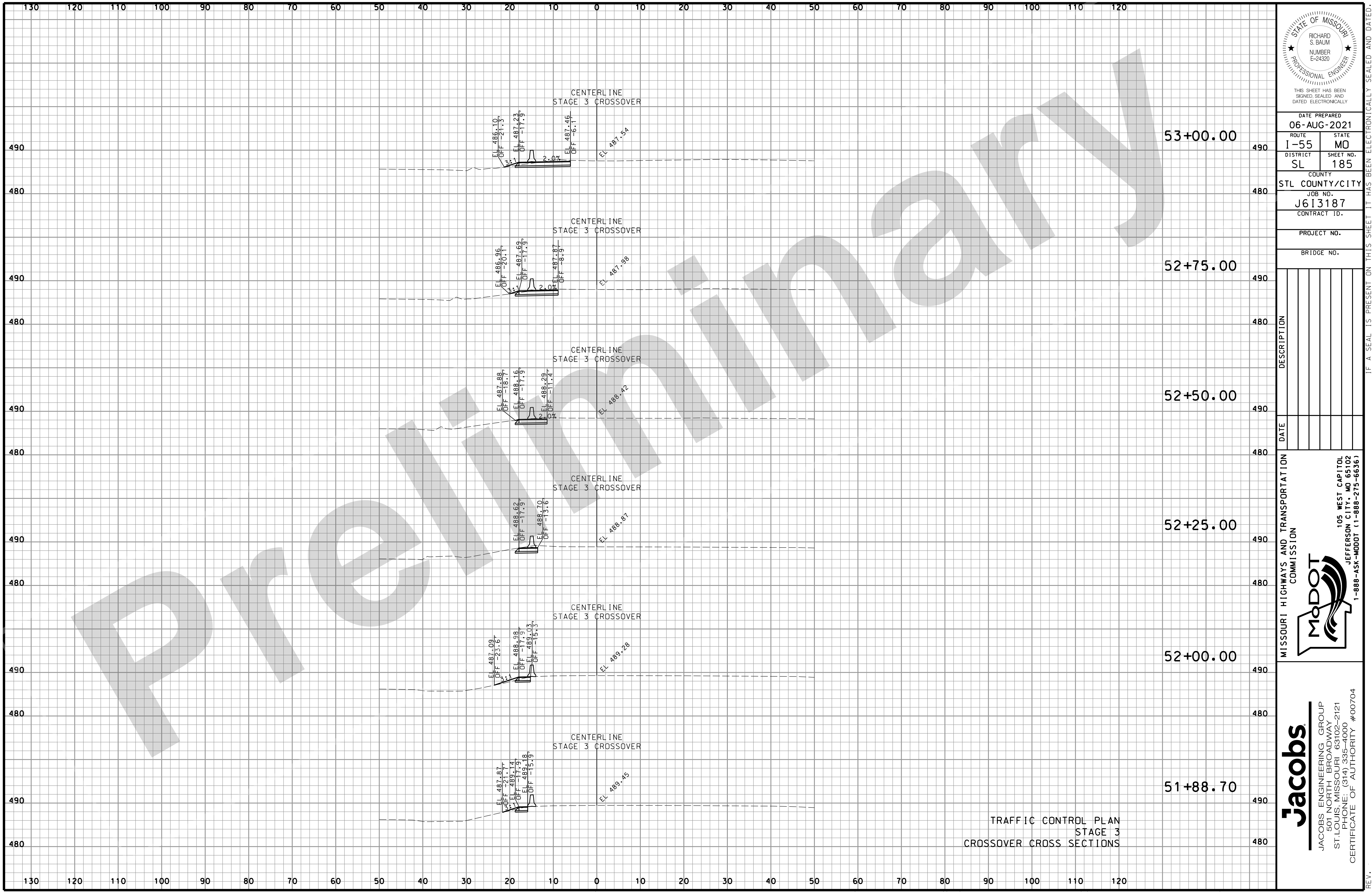
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DATE PREPARED
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ROUTE 1-55	STATE MO
DISTRICT SL	SHEET NO. 185

COUNTY
STL COUNTY/CITY

JOB NO.
J613187


CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

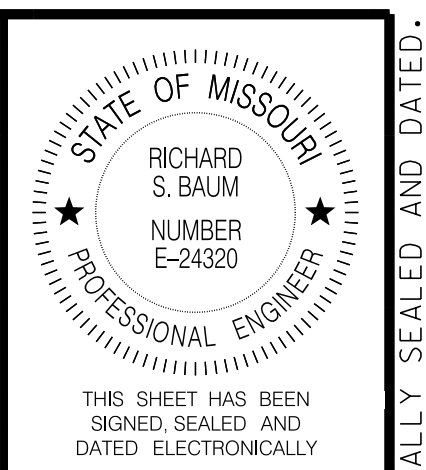
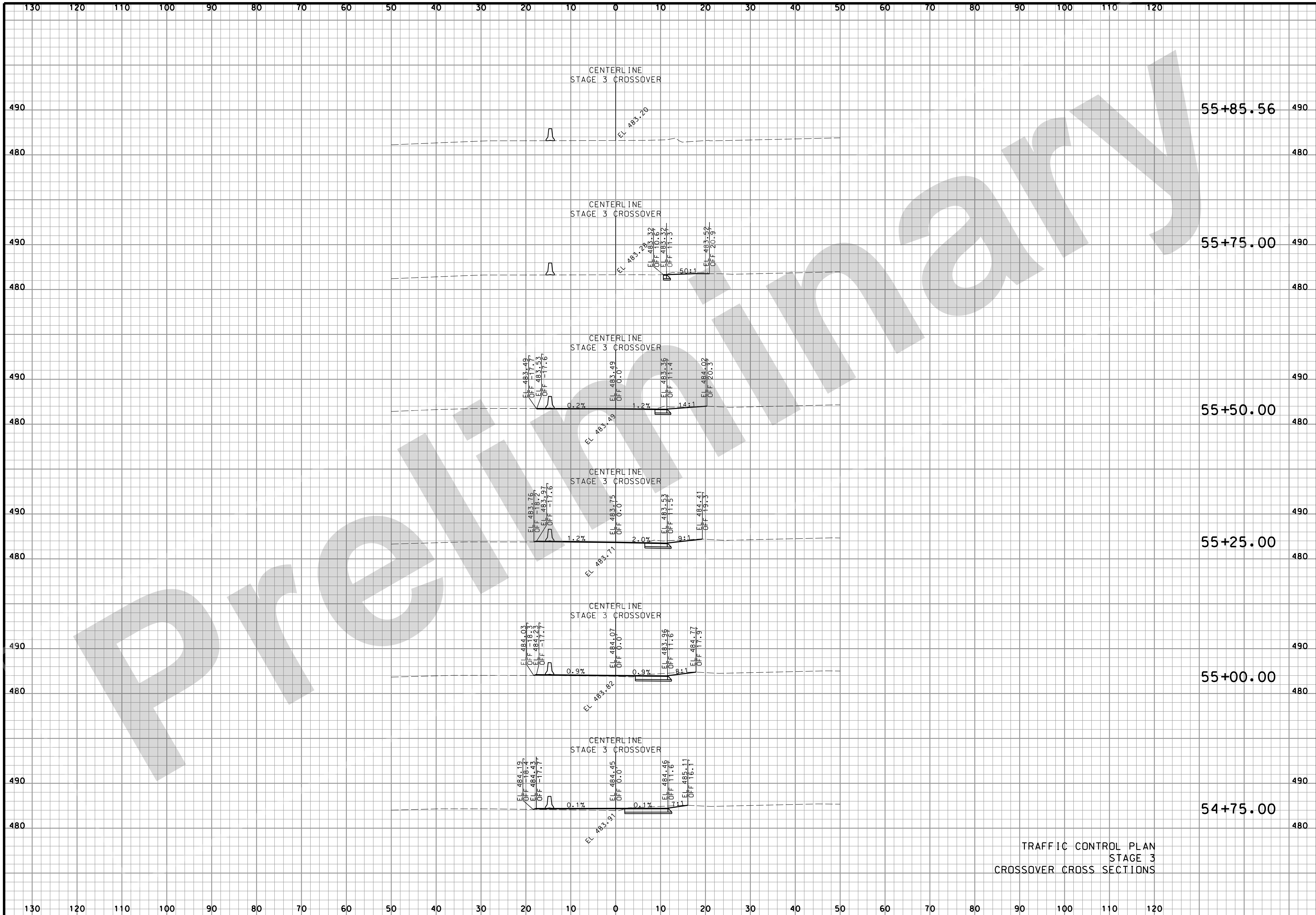
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06-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 187

COUNTY
STL COUNTY/CITY

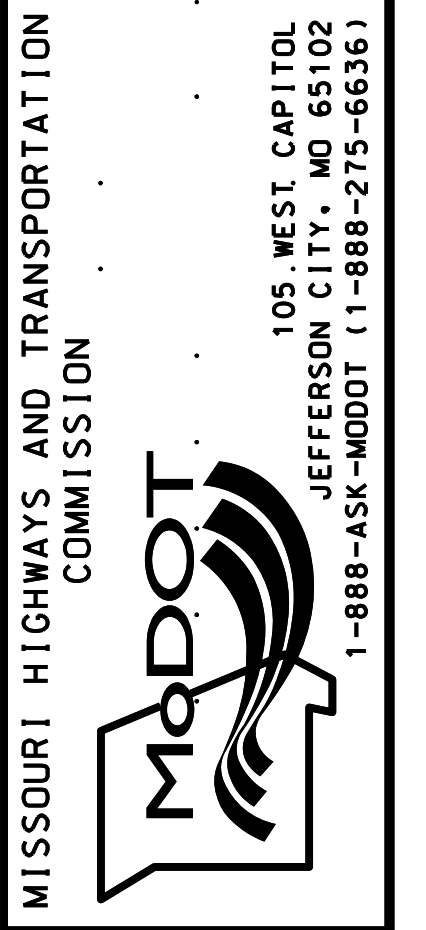
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BRIDGE NO.

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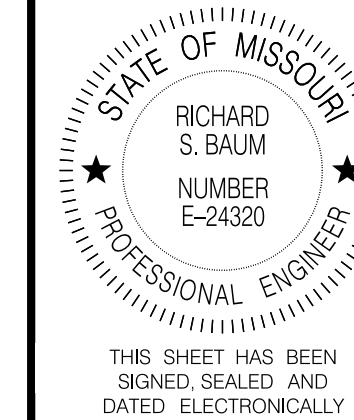
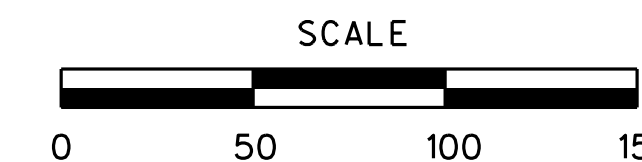


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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 188

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MATCH LINE STA. 197+00.00

DATE	DESCRIPTION

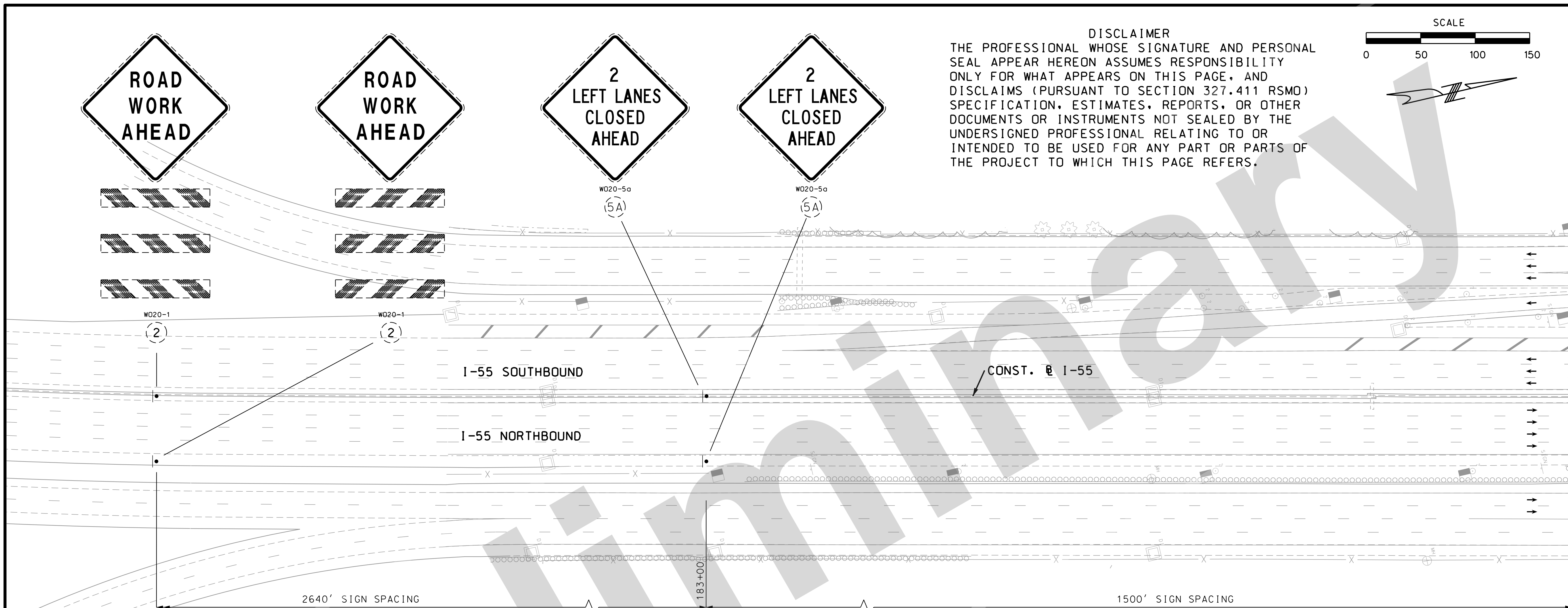
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TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 1 OF 31



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◡ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ▨ ARROW BOARD
- ▩ CHANGEABLE MESSAGE BOARD

PLACE 2 CHANGEABLE MESSAGE BOARDS FOR MESSAGES TO NORTHBOUND TRAFFIC AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

WORK ON THIS STAGE:

OVERLAY SB I-55 BRIDGE A1075 (KOELN AVE.)

REPLACE SB I-55 BRIDGE DECK A0607 (GRAVOIS CREEK), A0591 (GREEN PARK RD.), A1057 RIVER DES PERES) AND A1076 (MO-PAC RAILROAD)

REMOVE AND REPLACE GUARDRAIL ATTACHED TO SB I-55 BRIDGES A0607, A0591, A1057, A1075 AND A1076.

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- DW = EXIST. DOTTED WHITE

TCP GENERAL DESCRIPTION:

I-55 NB CLOSE TWO LEFT LANES, I-55 SB CLOSE LEFT LANE.

SB CROSSES ONTO NB PAVEMENT BETWEEN VIRGINIA AVE. OVERPASS AND HOLLY HILLS AVE. UNDERPASS. SB TRAFFIC CROSSES BACK ONTO SB PAVEMENT BETWEEN RIVER DES PERES AND WEBER RD. UNDERPASS.

SB TRAFFIC CROSSES ONTO NB PAVEMENT BETWEEN REAVIS BARRACKS RD. INTERCHANGE AND GRANT'S TRAIL OVERPASS. SB TRAFFIC CROSSES BACK ONTO SB PAVEMENT BETWEEN GRAVOIS CREEK BRIDGE AND LINDBERGH BLVD. INTERCHANGE.

SB OFF RAMP TO GERMANIA ST., SB ON RAMP FROM LOUGHBOROUGH AVE. AND SB OFF RAMP TO LOUGHBOROUGH AVE. CLOSED. ALL OTHER RAMPS REMAIN OPEN.

TCP NOTES:

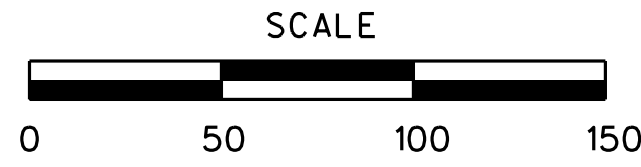
NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAYMENT WILL BE MADE.

UIP ALL EXISTING PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

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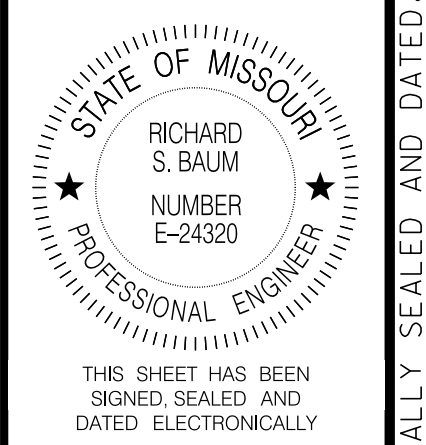


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- ◻ CHANGEABLE MESSAGE BOARD



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 189

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

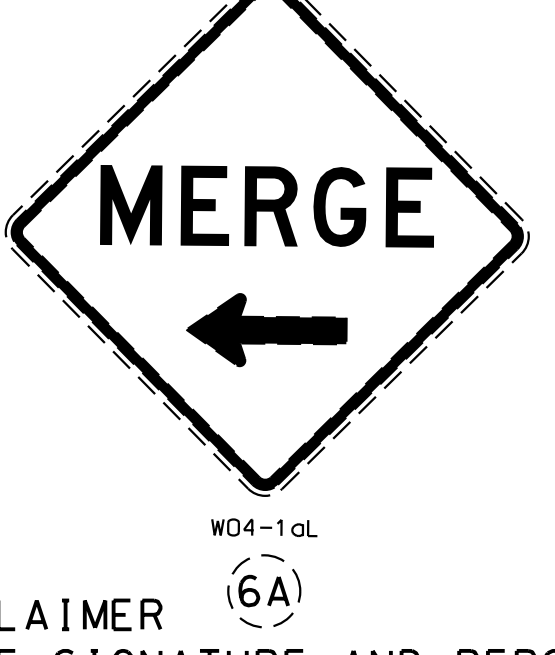
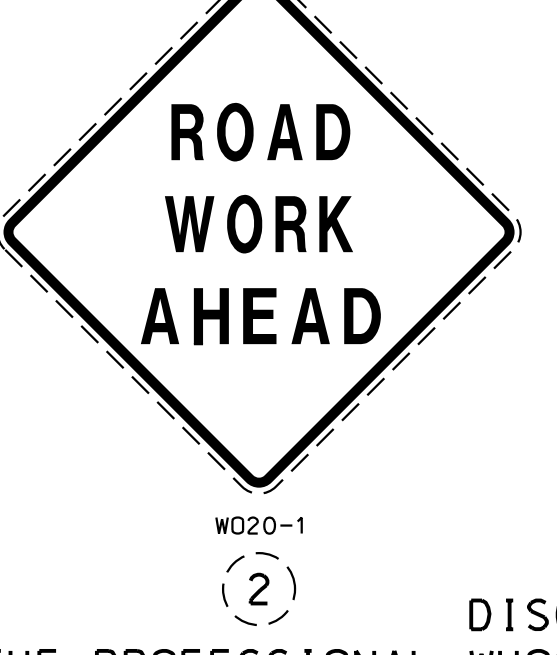
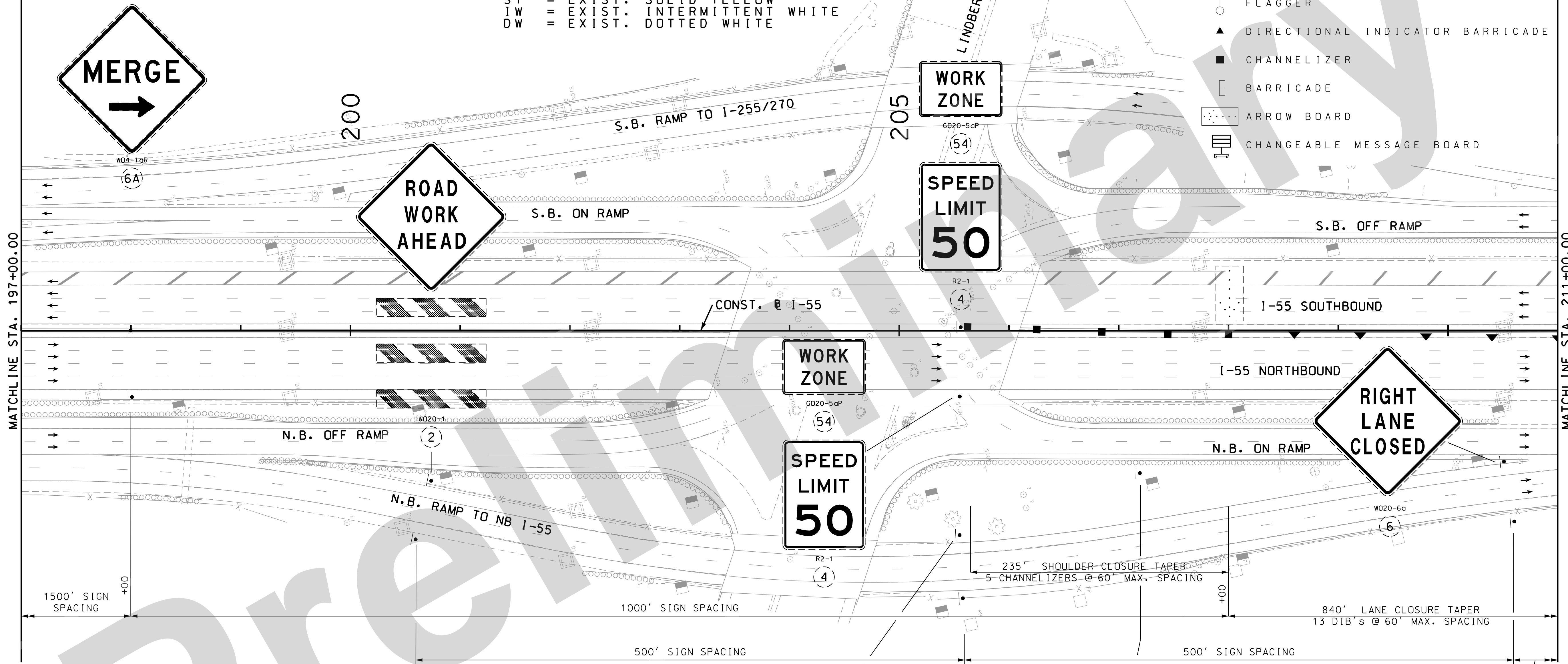
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Jacobs

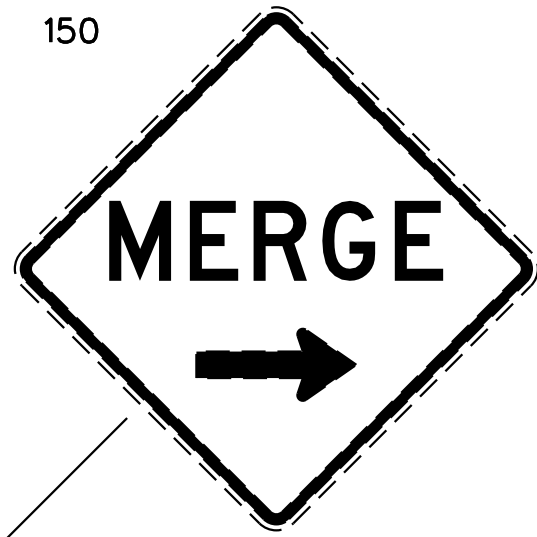
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PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
STAGE 4
SHEET 2 OF 31



DISCLAIMER

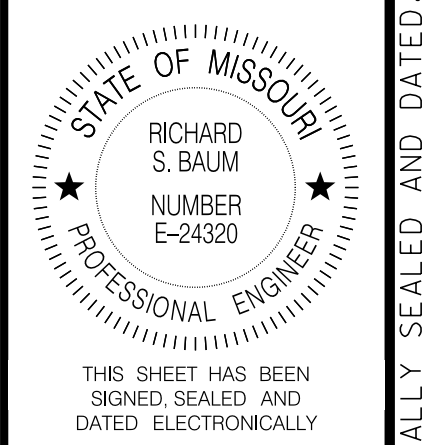
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WD4-1QR
(6A)

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THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 191
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

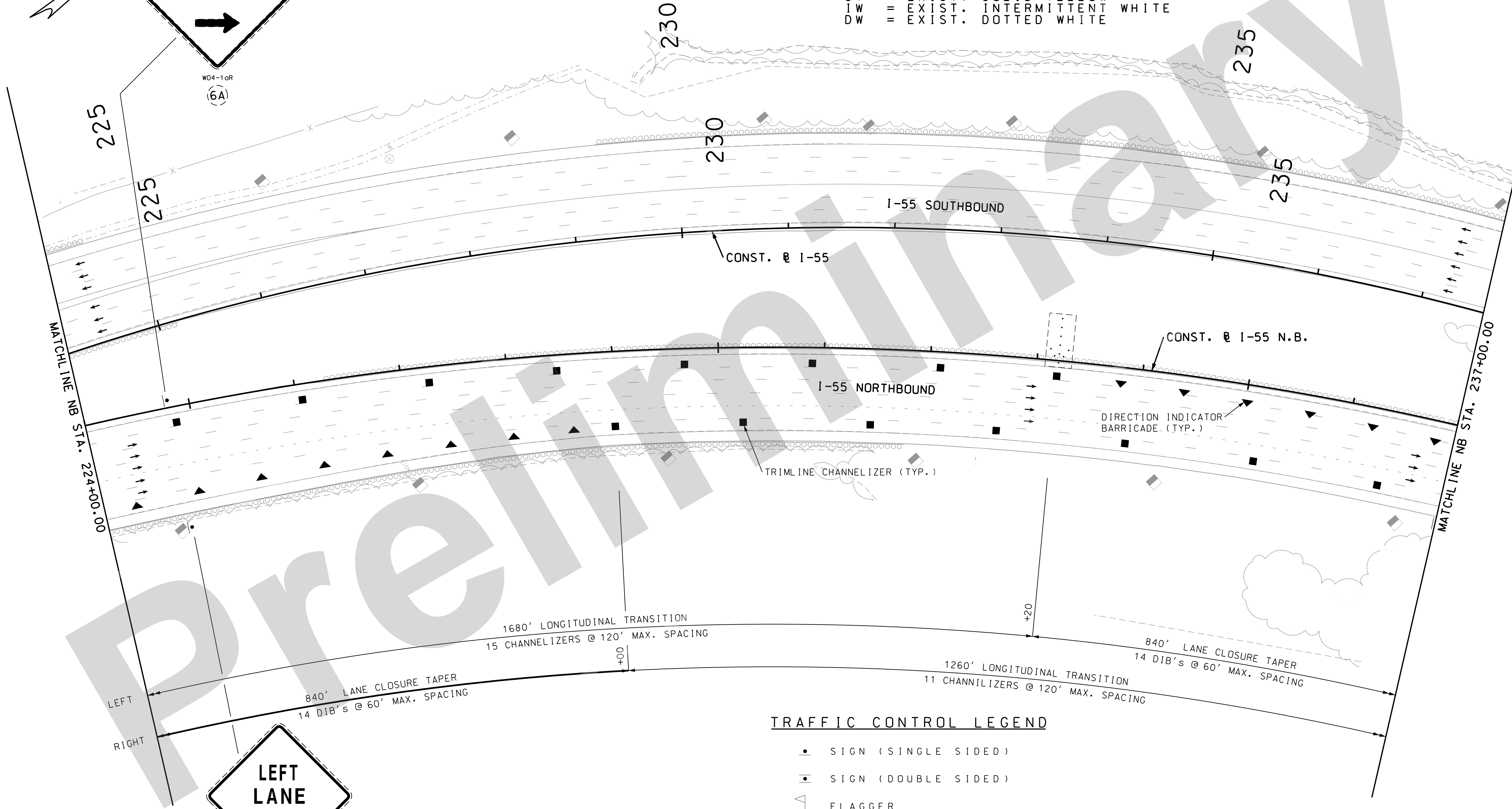
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ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

MATCHLINE NB STA. 224+00.00

MATCHLINE NB STA. 237+00.00



LEFT
RIGHT



WD20-6a
(6)

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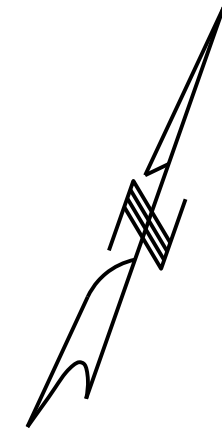
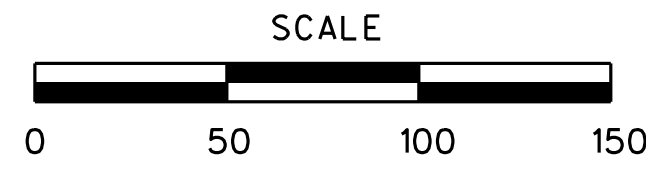
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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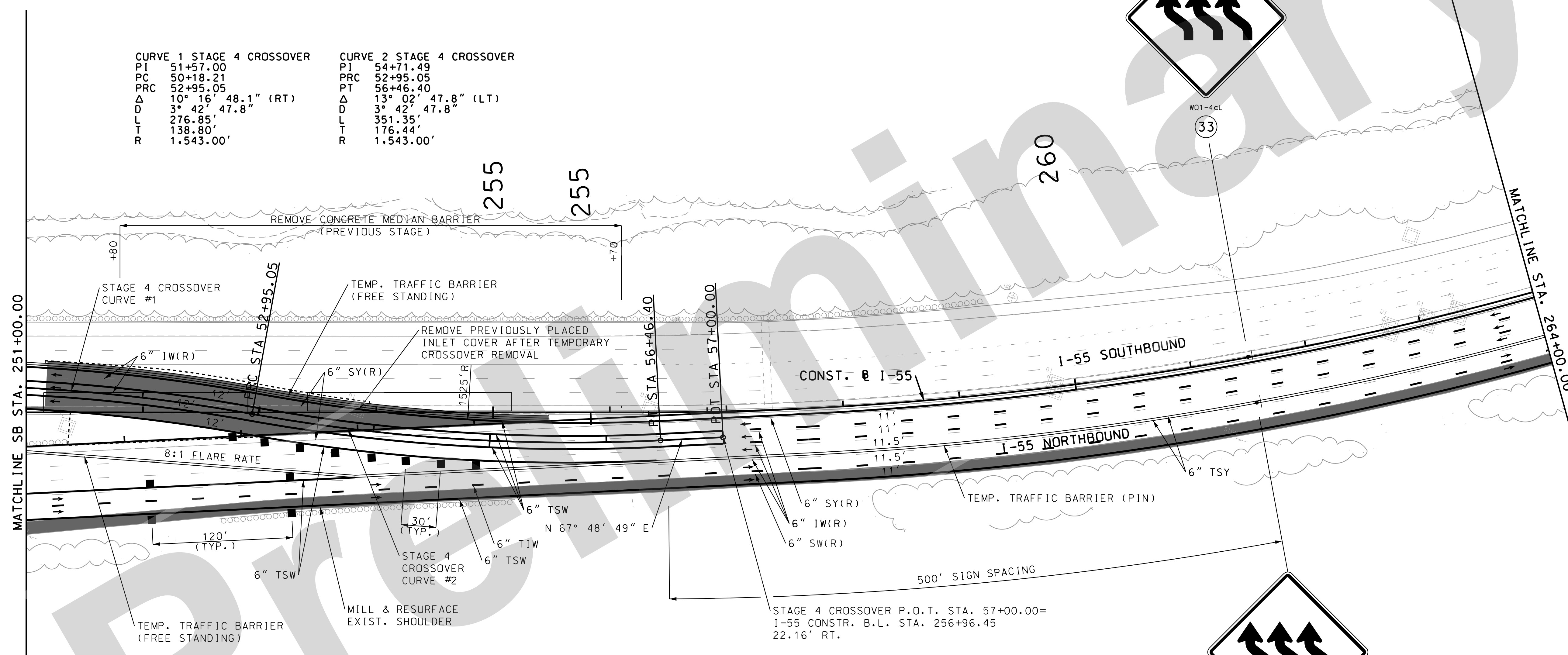
TRAFFIC CONTROL PLAN
STAGE 4
SHEET 4 OF 31

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CURVE 1 STAGE 4 CROSSOVER		CURVE 2 STAGE 4 CROSSOVER	
PI	51+57.00	PI	54+71.49
PC	50+18.21	PRC	52+95.05
PRC	52+95.05	PT	56+46.40
Δ	10° 16' 48.1" (RT)	Δ	13° 02' 47.8" (LT)
D	3° 42' 47.8"	D	3° 42' 47.8"
L	276.85'	L	351.35'
T	138.80'	T	176.44'
R	1,543.00'	R	1,543.00'

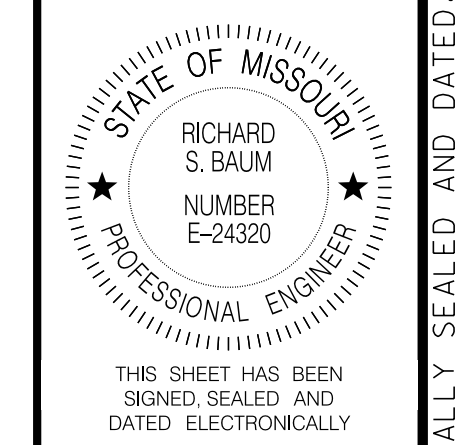


TRAFFIC CONTROL LEGEND

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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 193
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

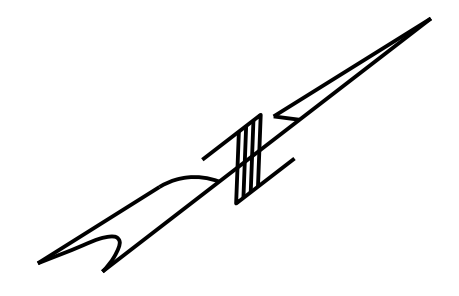
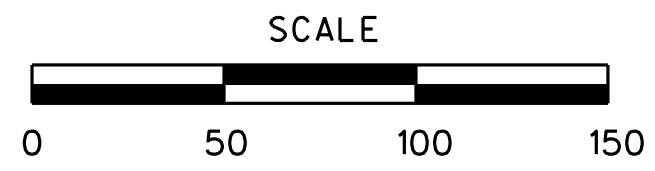
105 WEST CAPITOL
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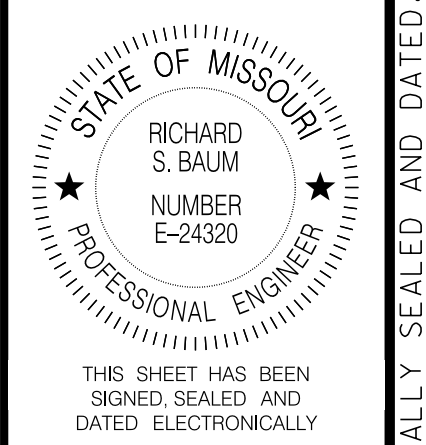
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TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 6 OF 31

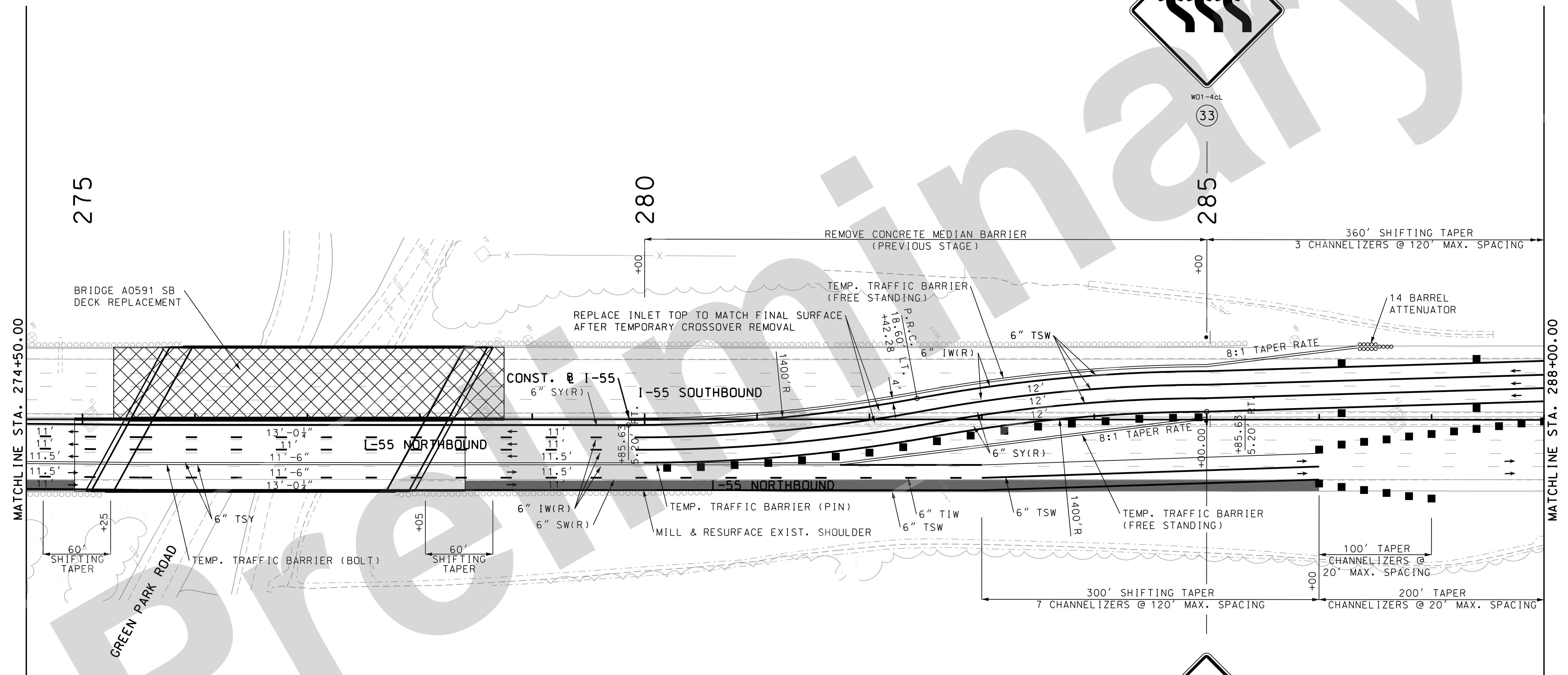
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DISTRICT SL	SHEET NO. 195
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

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DESCRIPTION	DATE

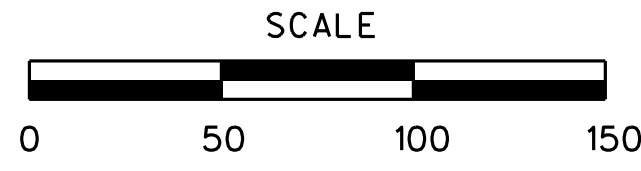
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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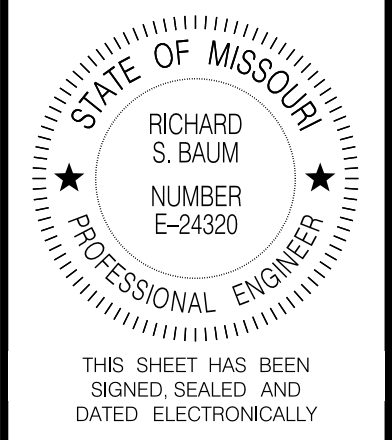
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TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 8 OF 31



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DATE PREPARED
05-AUG-2021
 ROUTE STATE
1-55 MO
 DISTRICT SHEET NO.
SL 196
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

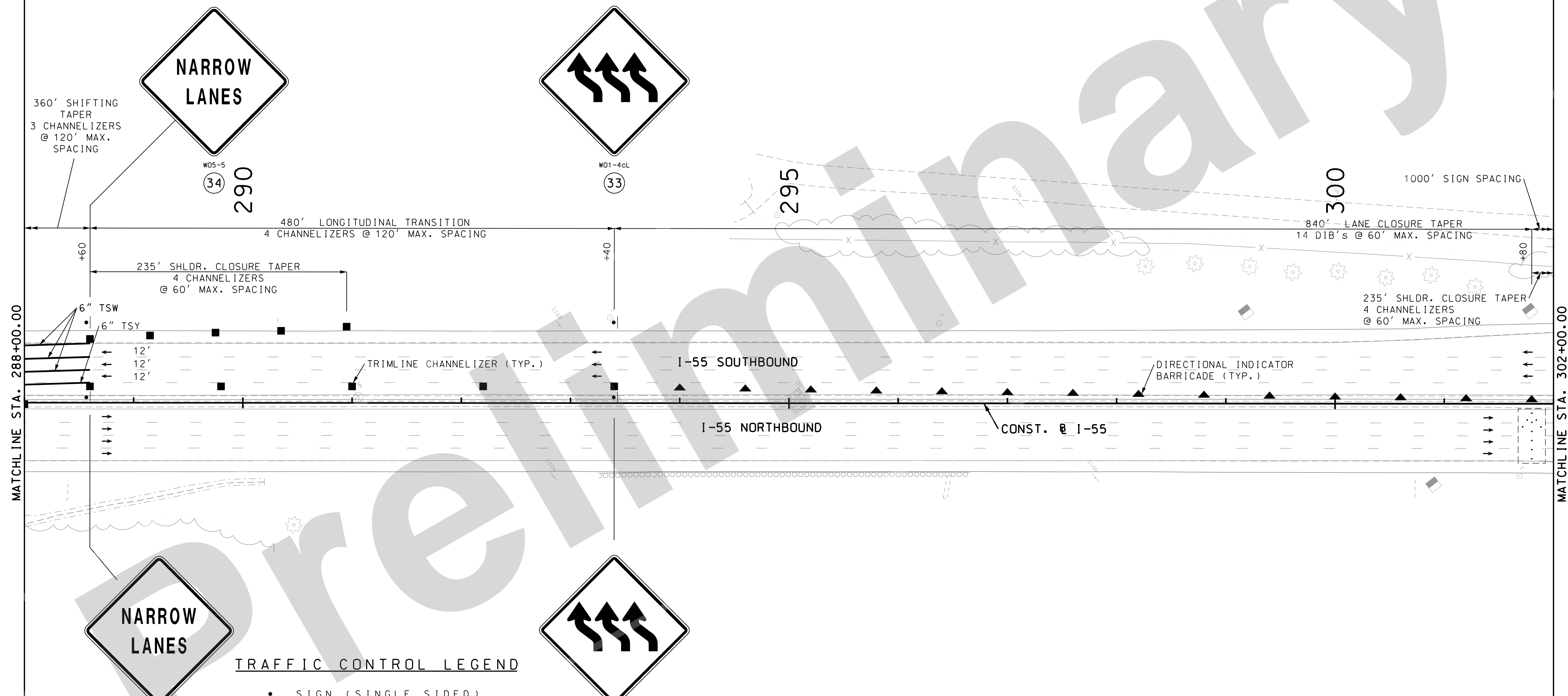
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TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 9 OF 31

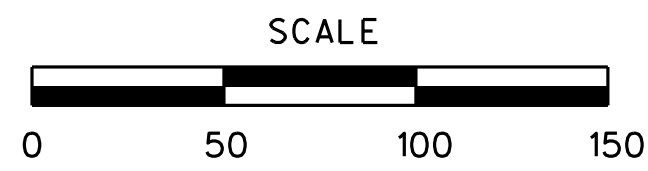


TRAFFIC CONTROL LEGEND

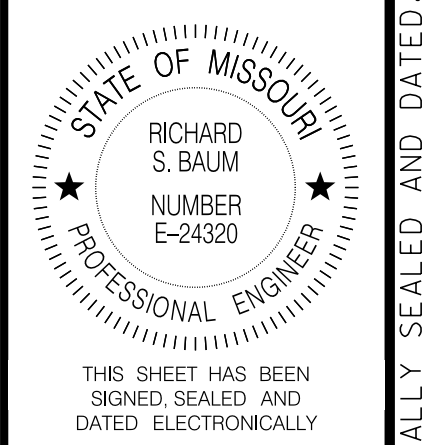
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DATE PREPARED
05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	197

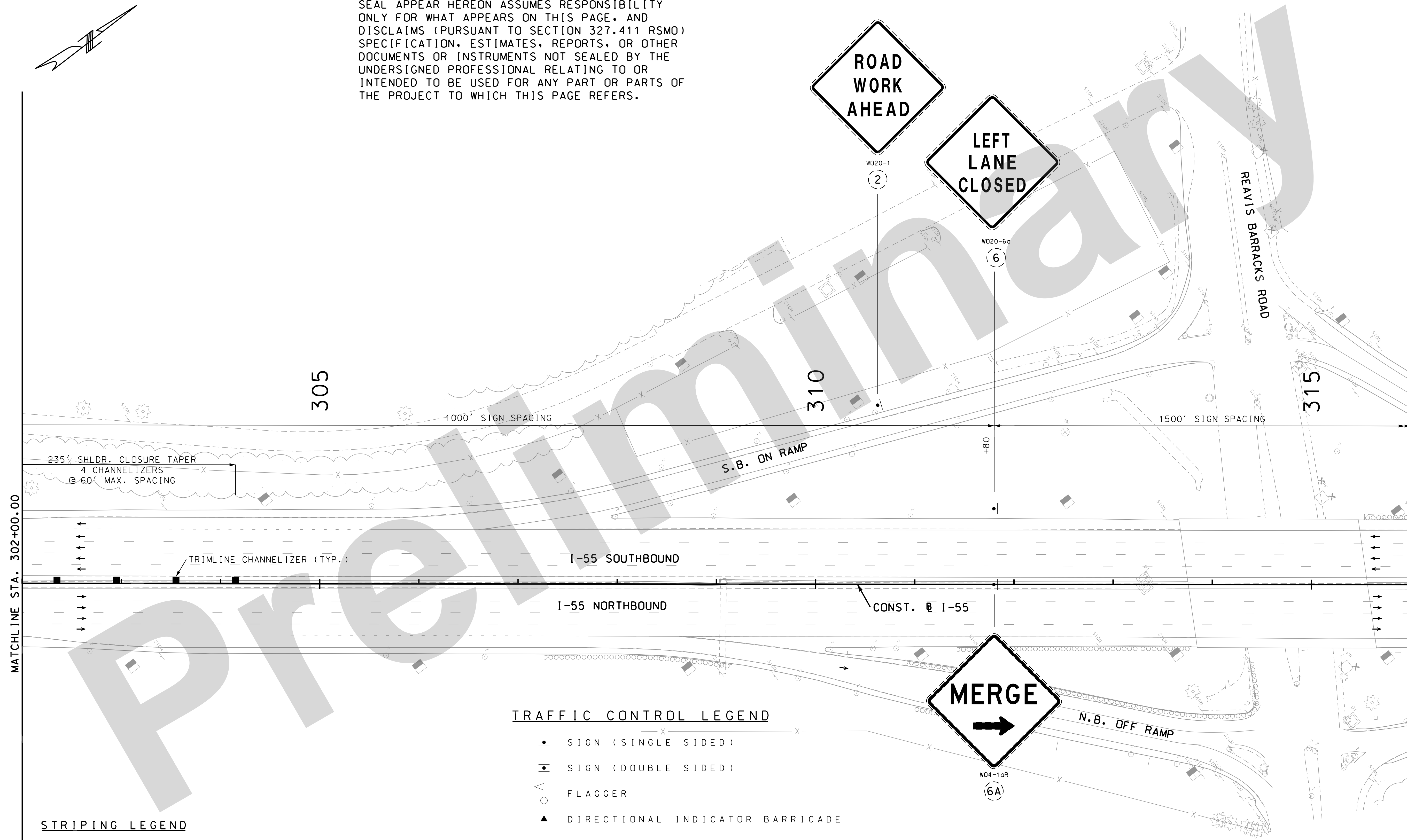
COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌈ BARRICADE
- ▭ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

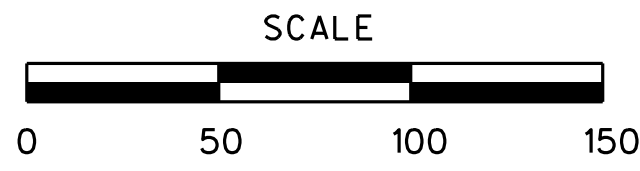
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

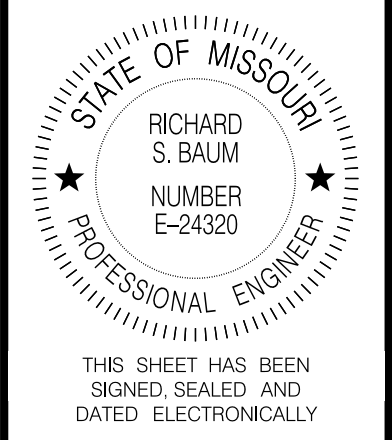
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 10 OF 31

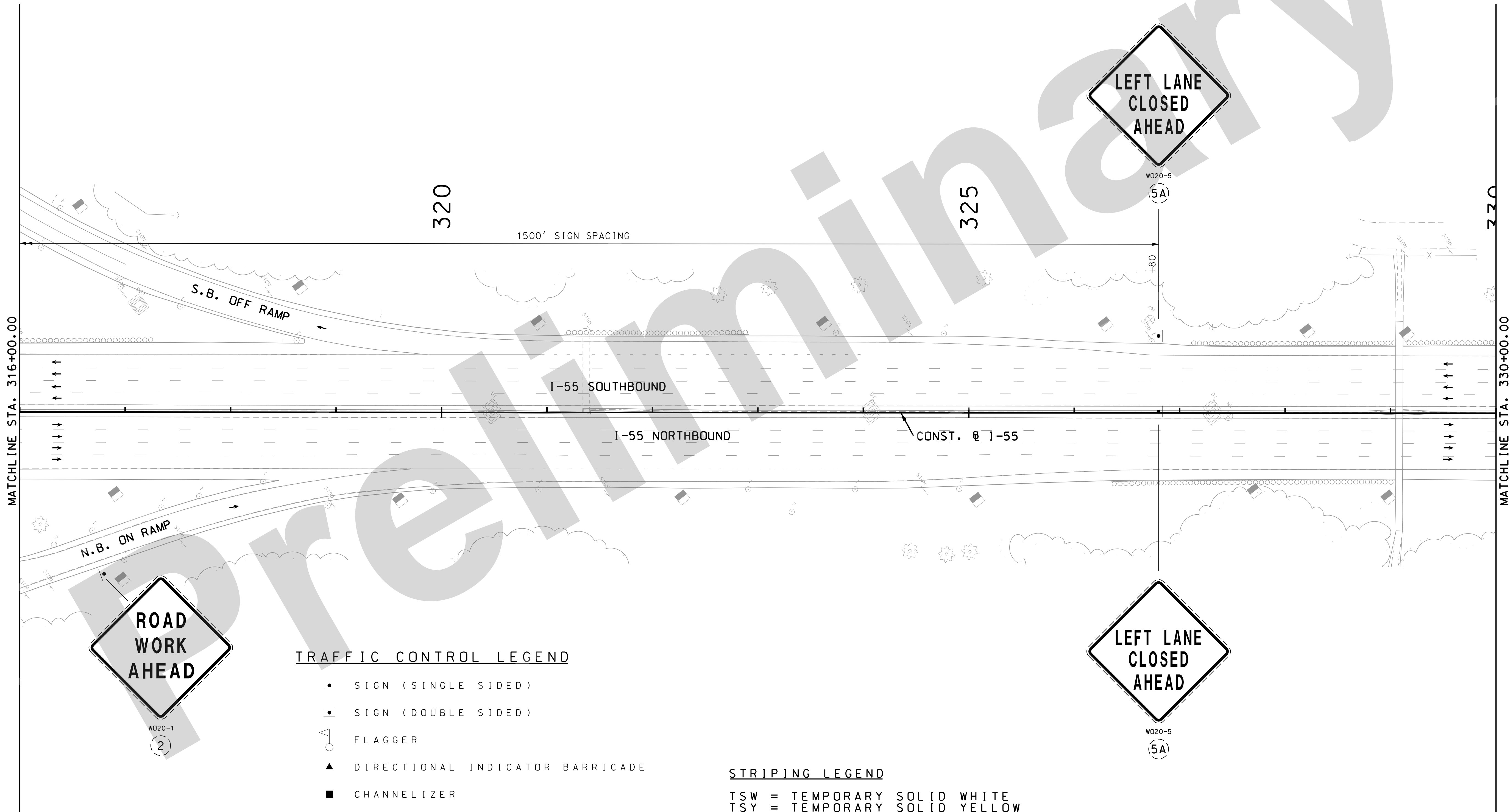
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 198
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌌ BARRICADE
- ⇨ ARROW BOARD
- ⌌ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 11 OF 31

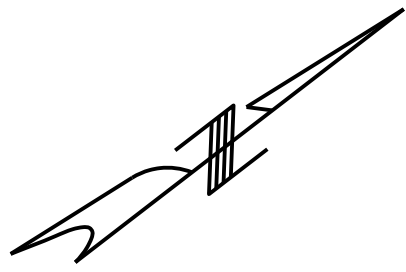
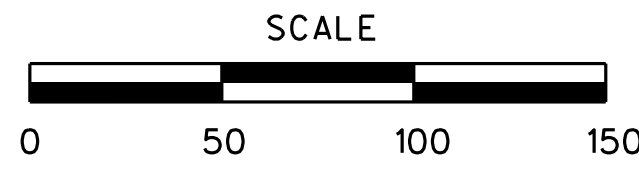
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

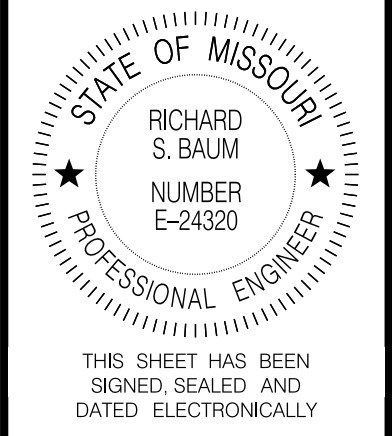
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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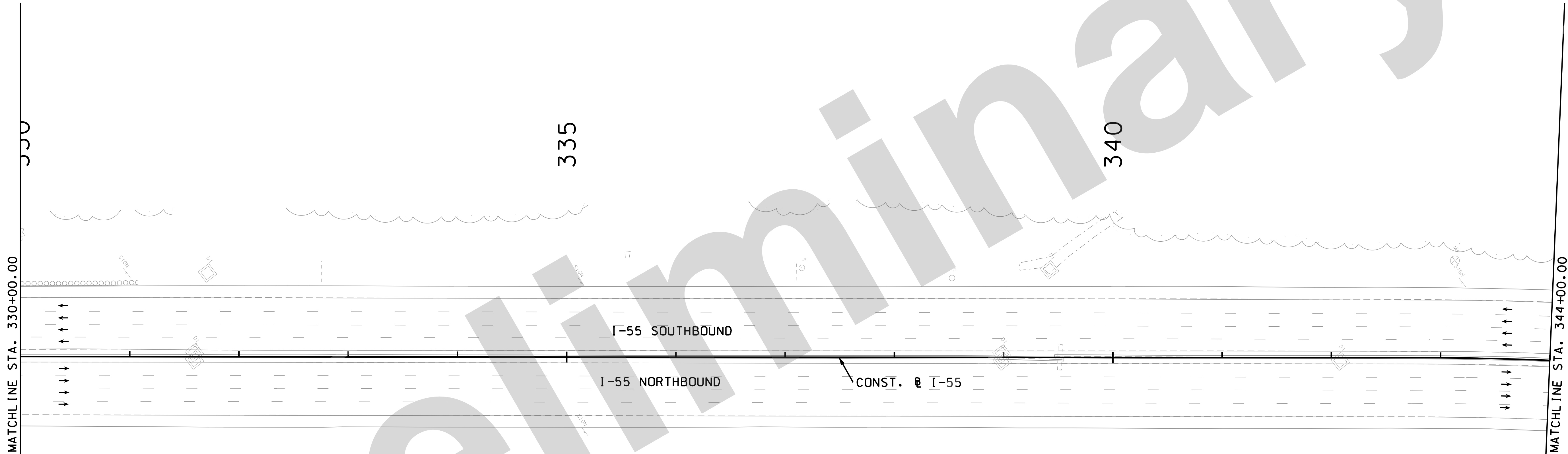
DATE PREPARED
 05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	199

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◡ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 12 OF 31

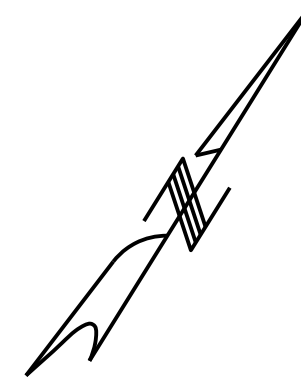
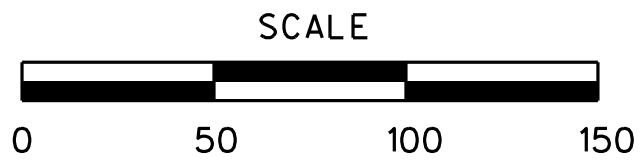
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

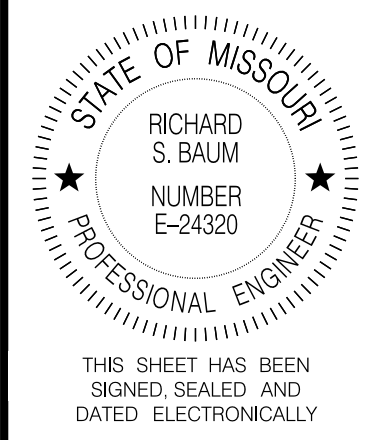
Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
 05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	200

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

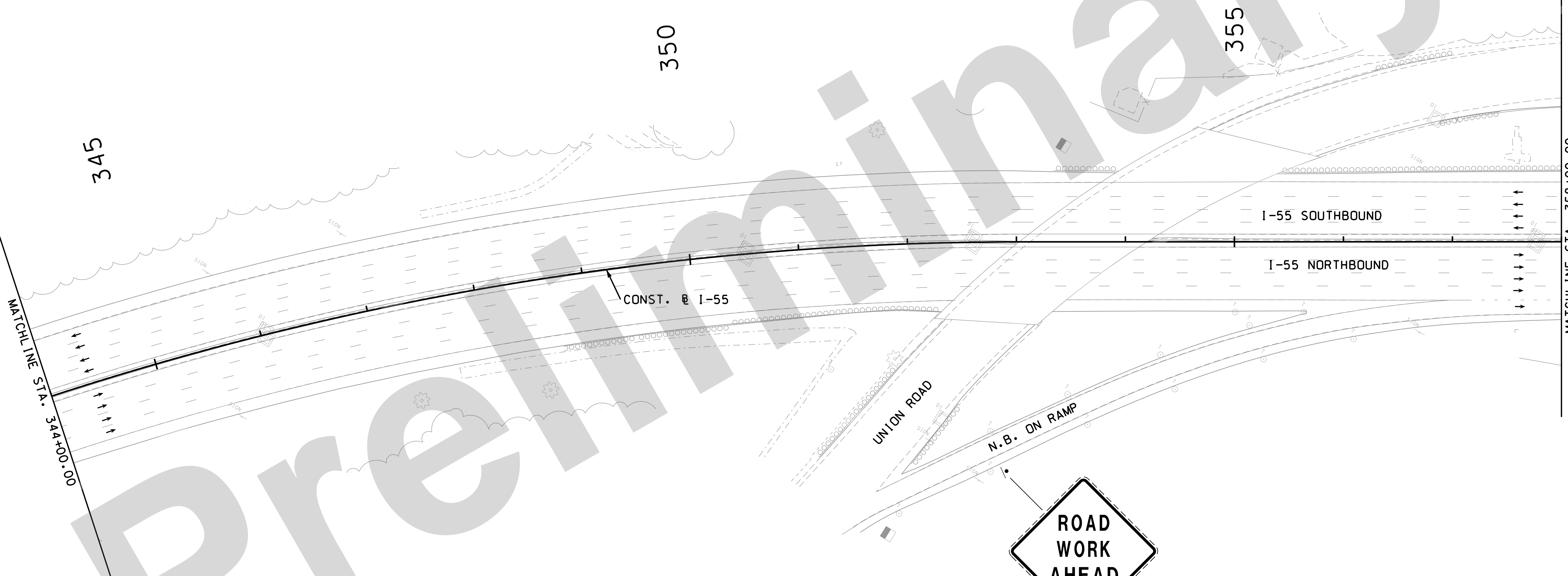
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 13 OF 31



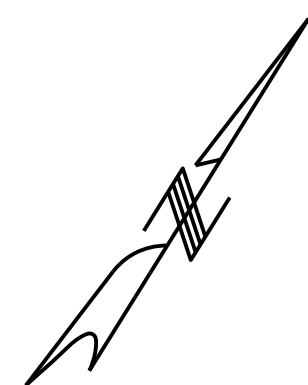
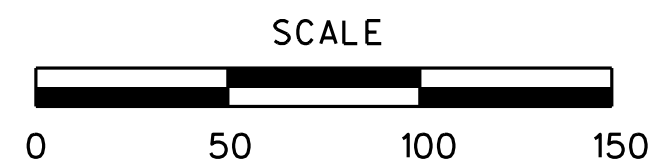
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

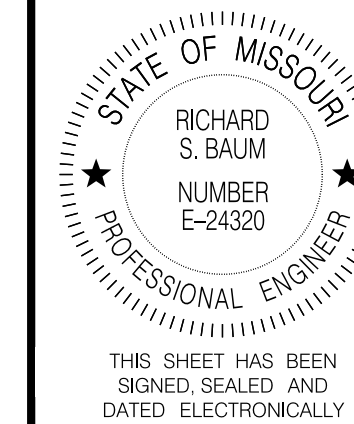
STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 201

COUNTY

STL COUNTY/CITY

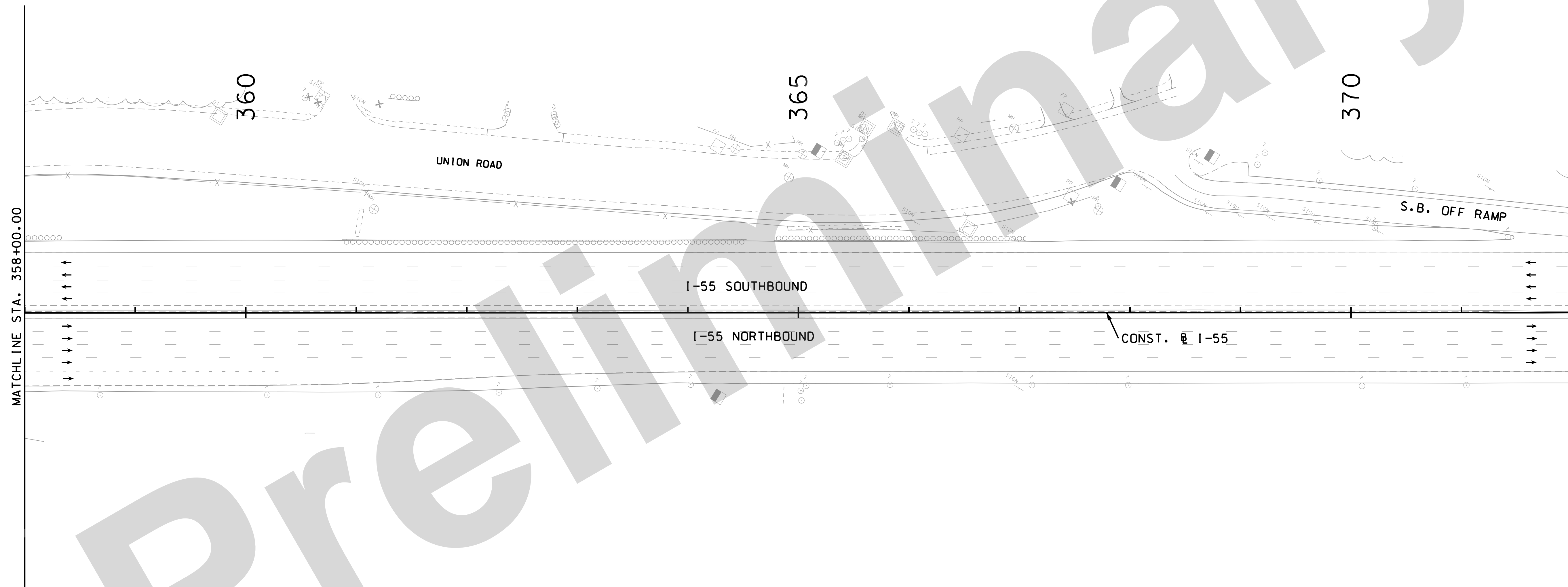
JOB NO.

J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



MATCHLINE STA. 358+00.00

MATCHLINE STA. 372+00.00

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
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- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

DATE	DESCRIPTION

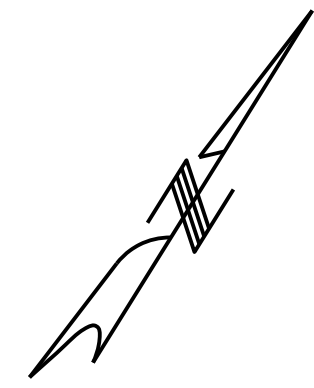
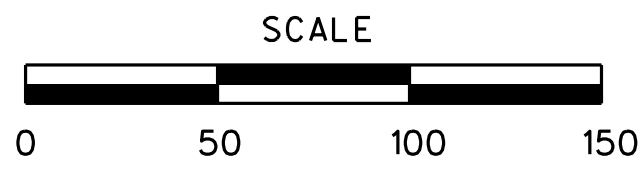
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

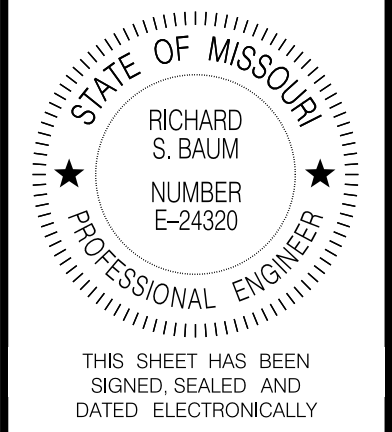
Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 14 OF 31



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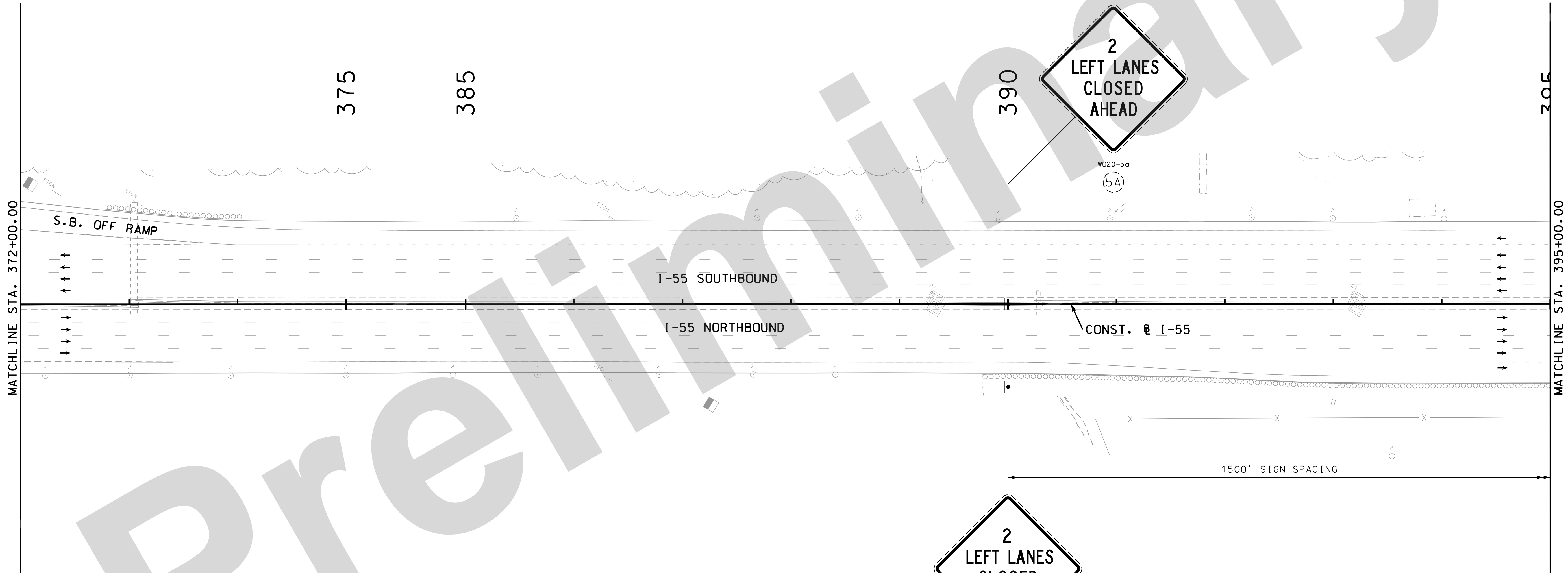


DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 202

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ARROW BOARD
- CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

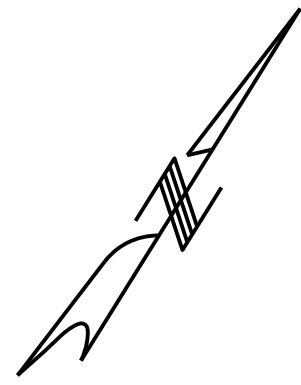
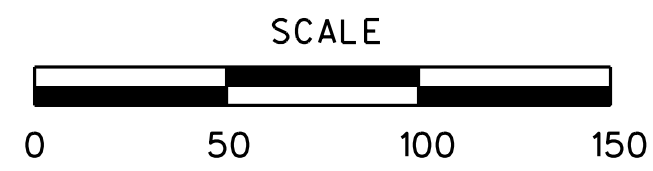
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

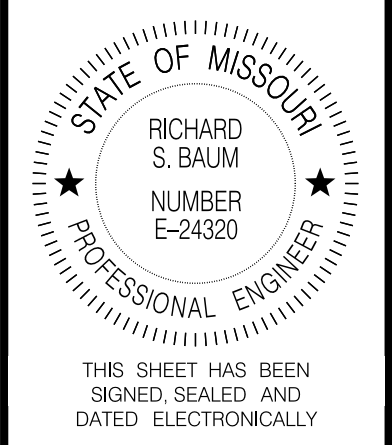
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 15 OF 31

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DATE PREPARED
 05-AUG-2021
 ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 205
 COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

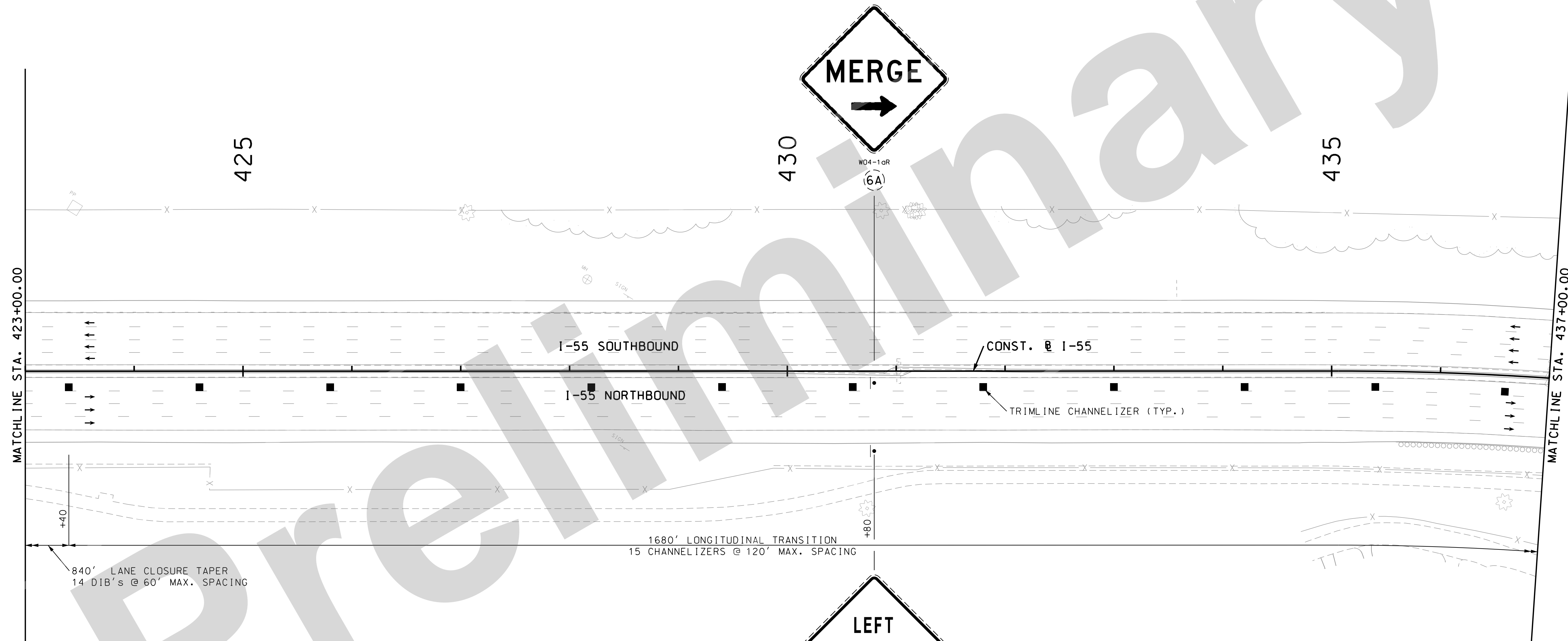
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 18 OF 31



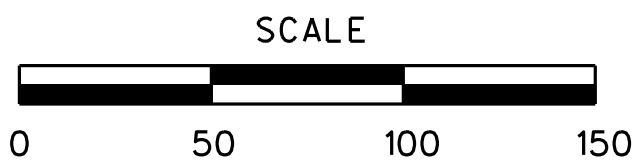
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◐ SIGN (DOUBLE SIDED)
- ◌ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ◌ ARROW BOARD
- ◌ CHANGEABLE MESSAGE BOARD

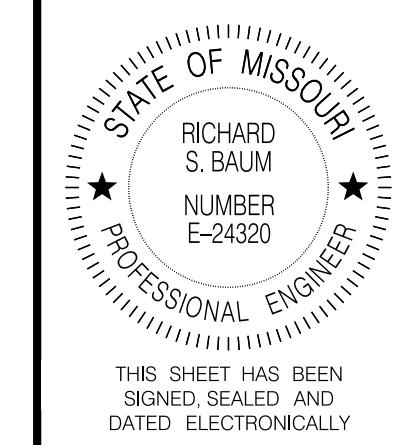
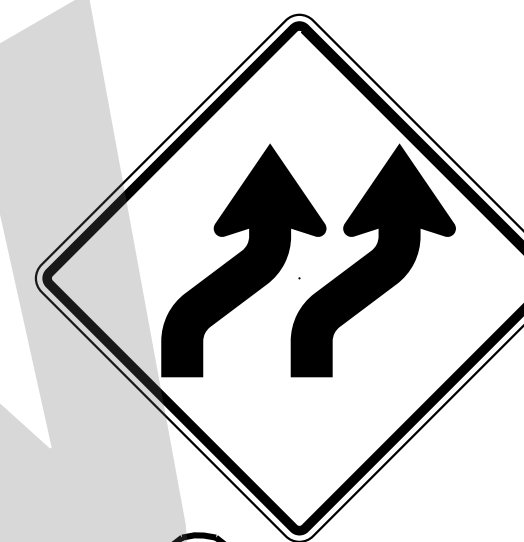
STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
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- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

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DATE PREPARED
05-AUG-2021
 ROUTE **I-55** STATE **MO**
 DISTRICT **SL** SHEET NO. **206**
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

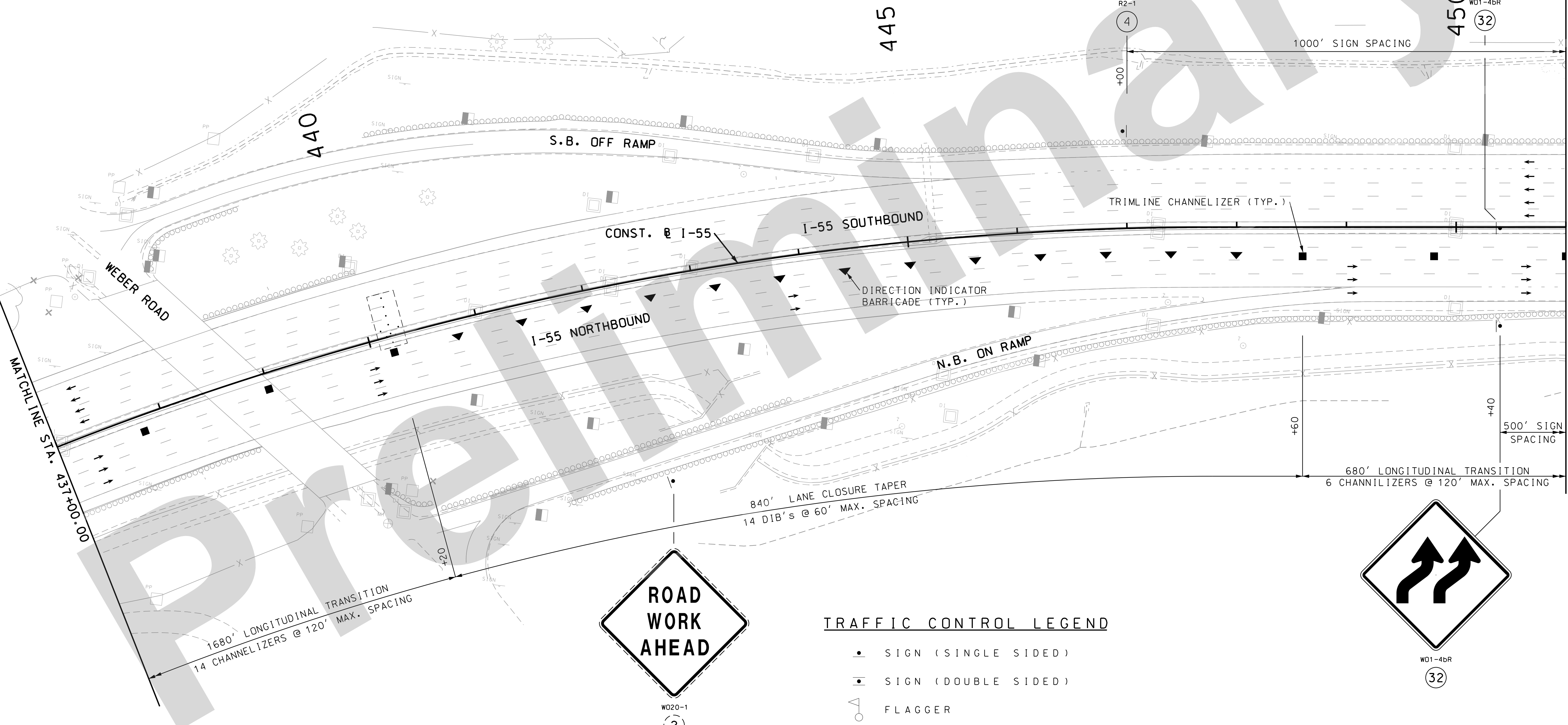
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

450
 W01-4BR
 (32)

W01-4BR
 (32)



TRAFFIC CONTROL LEGEND

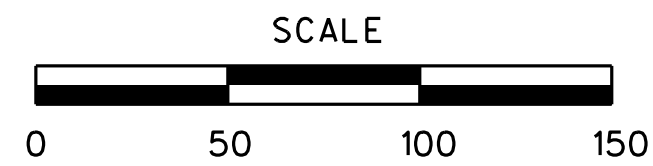
- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌌ BARRICADE
- ◻ ARROW BOARD
- ⌌ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

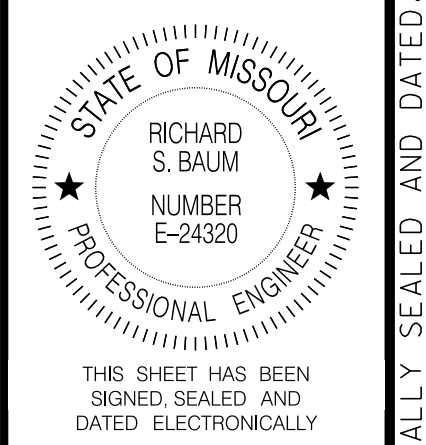
- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 19 OF 31

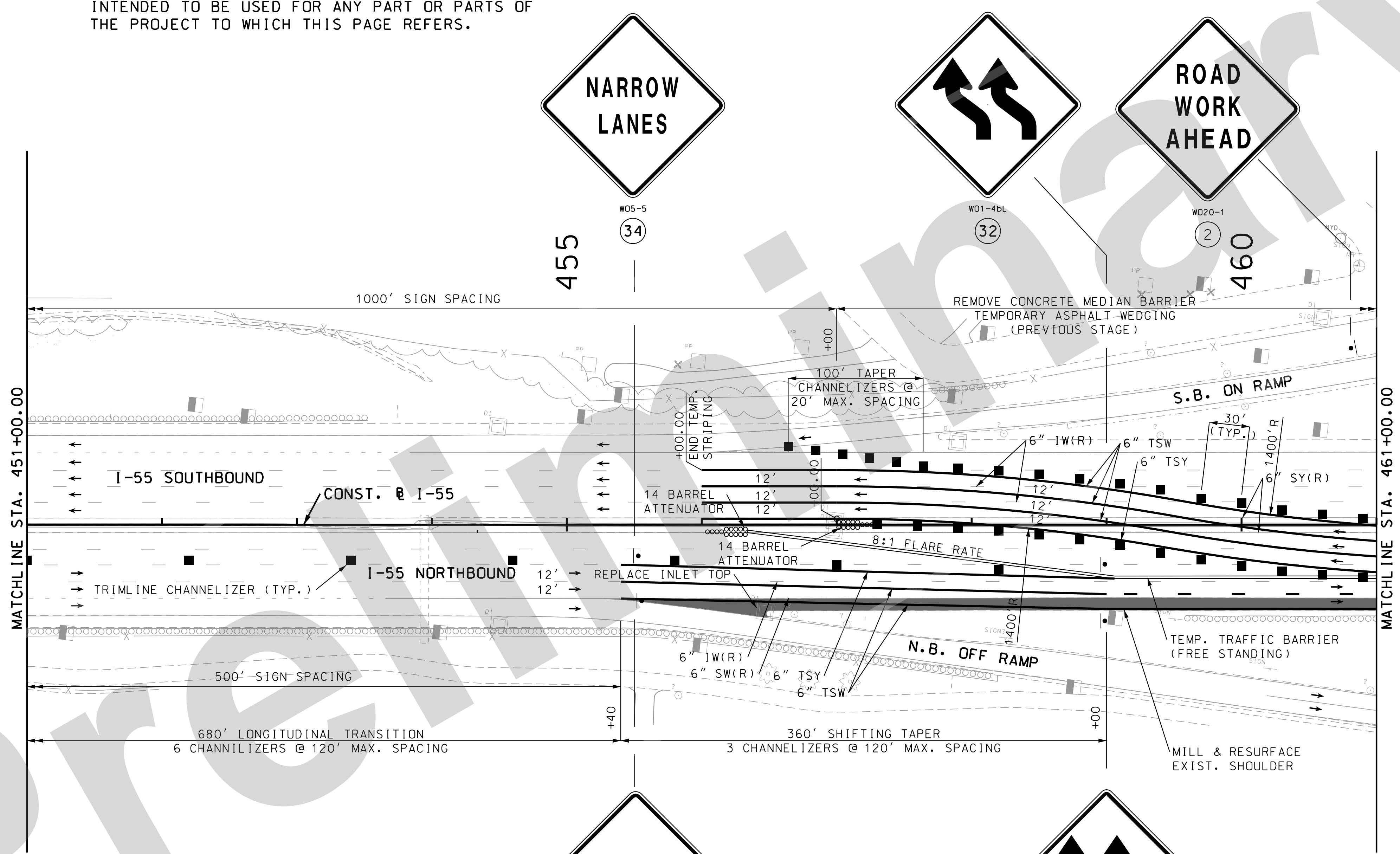
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DISCLAIMER
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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 207
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ◻ BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

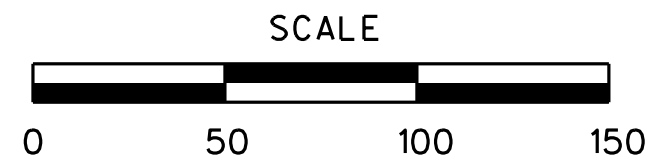
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

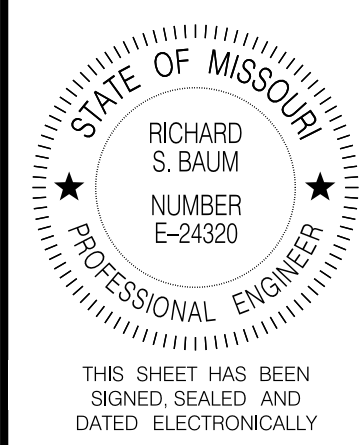
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 20 OF 31

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 213
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

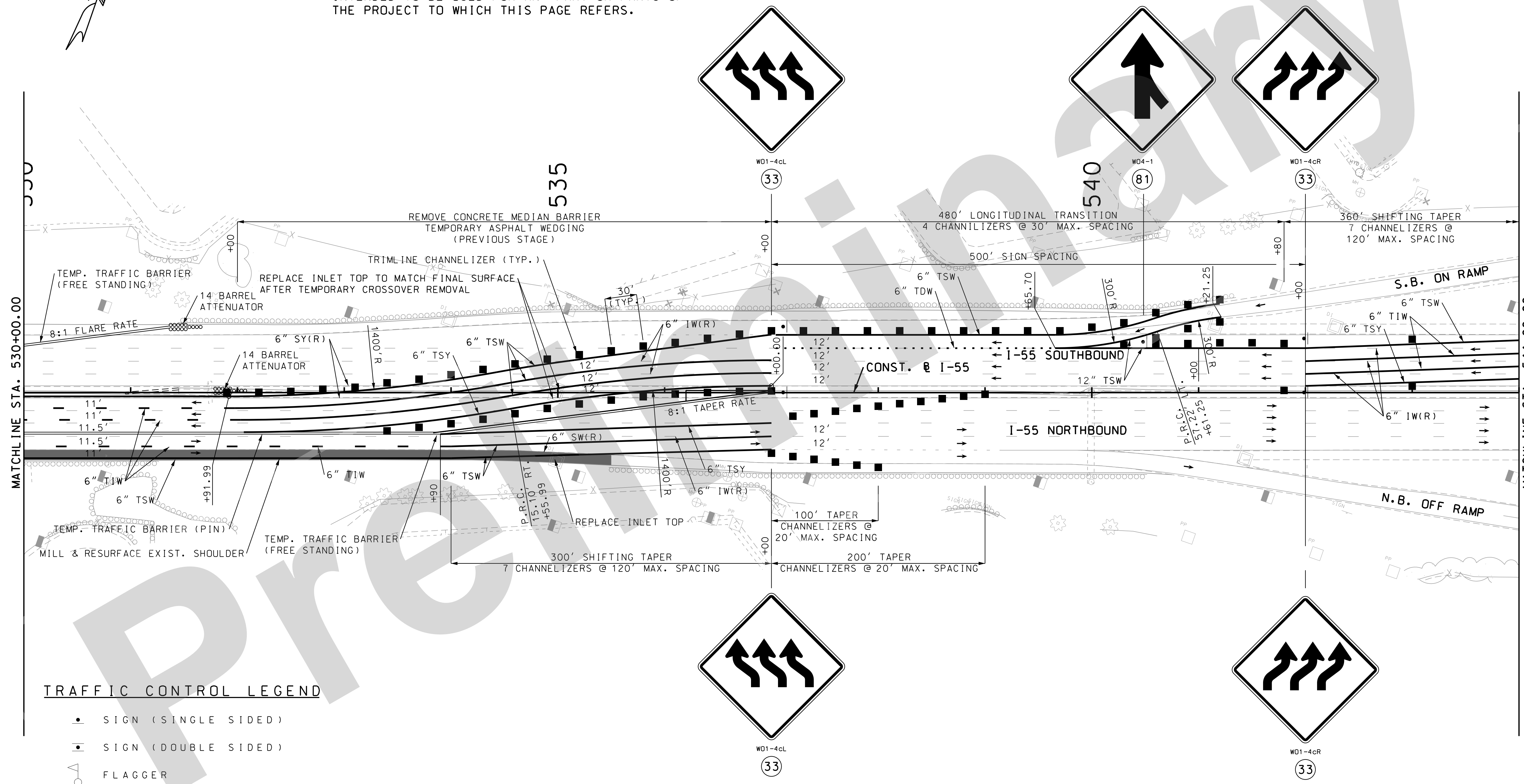
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 26 OF 31

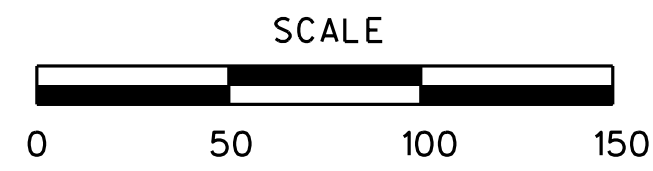


TRAFFIC CONTROL LEGEND

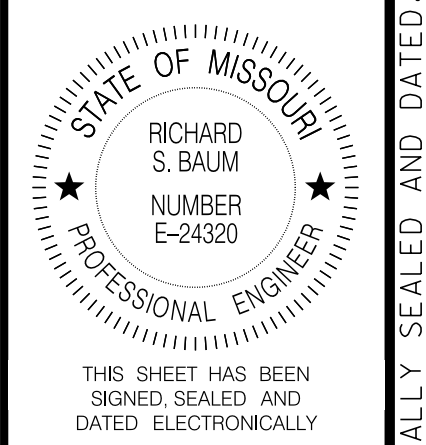
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- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ◻ BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

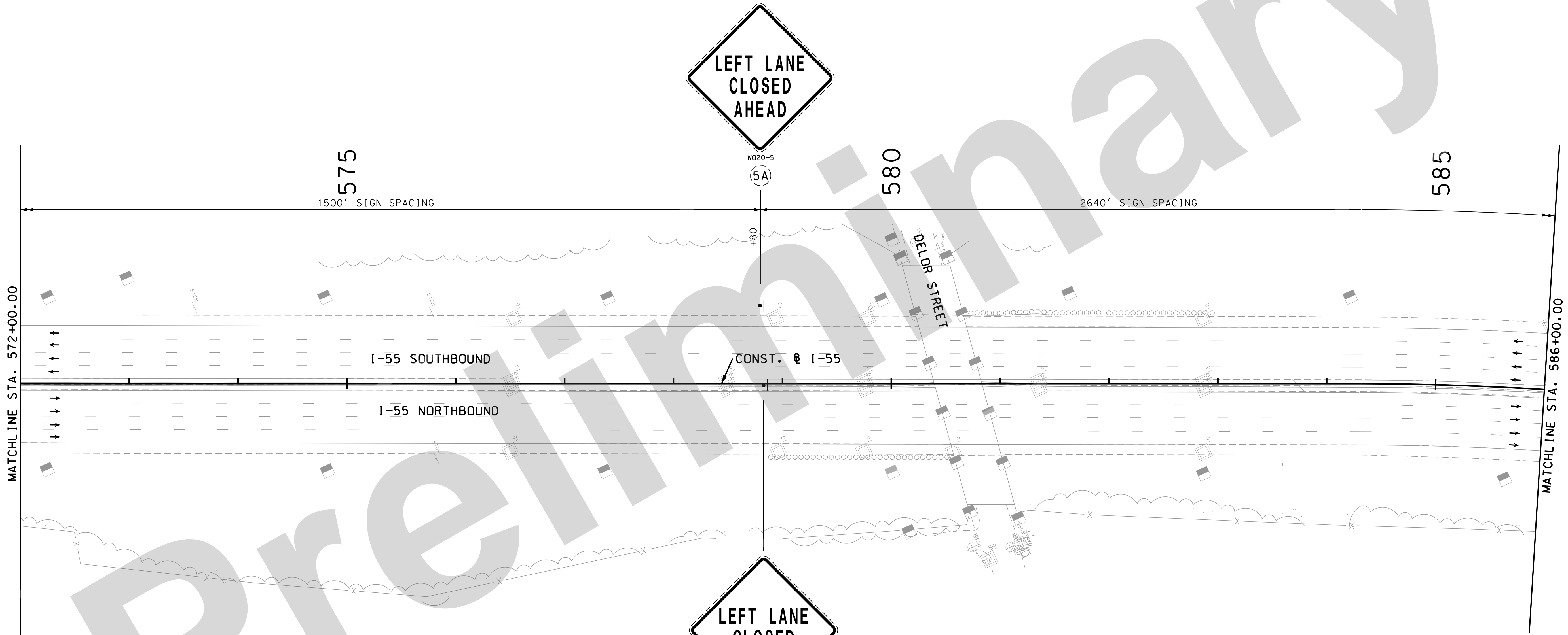
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- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 216
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌈ BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 29 OF 31

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

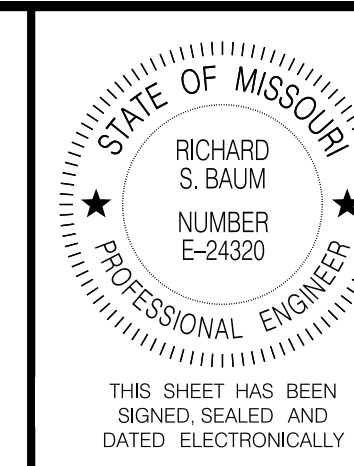
Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO

DISTRICT SHEET NO.
 SL 218

COUNTY
 STL COUNTY/CITY

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-273-6636)

REVISIONS

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

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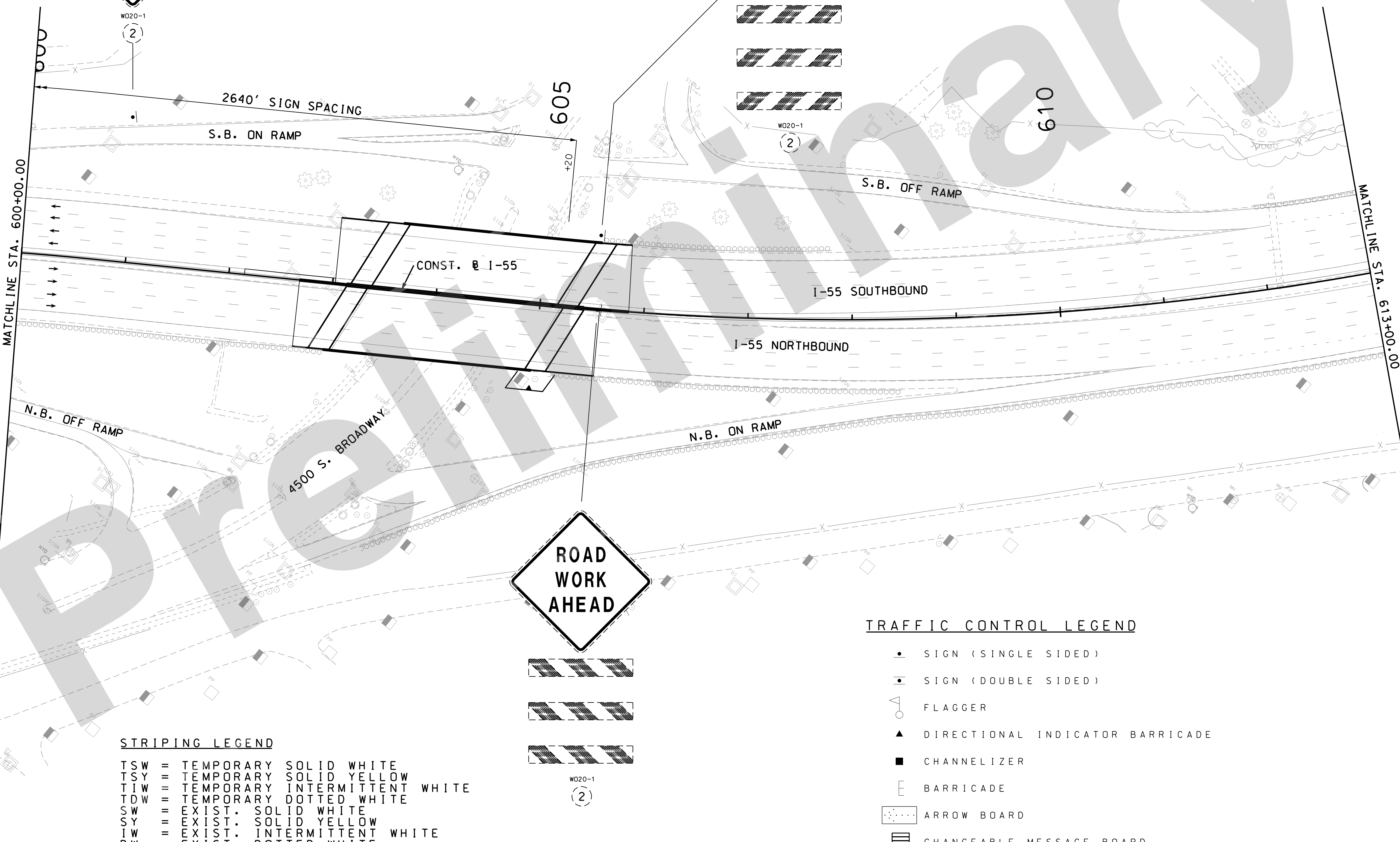
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DESCRIPTION

DATE

DESCRIPTION



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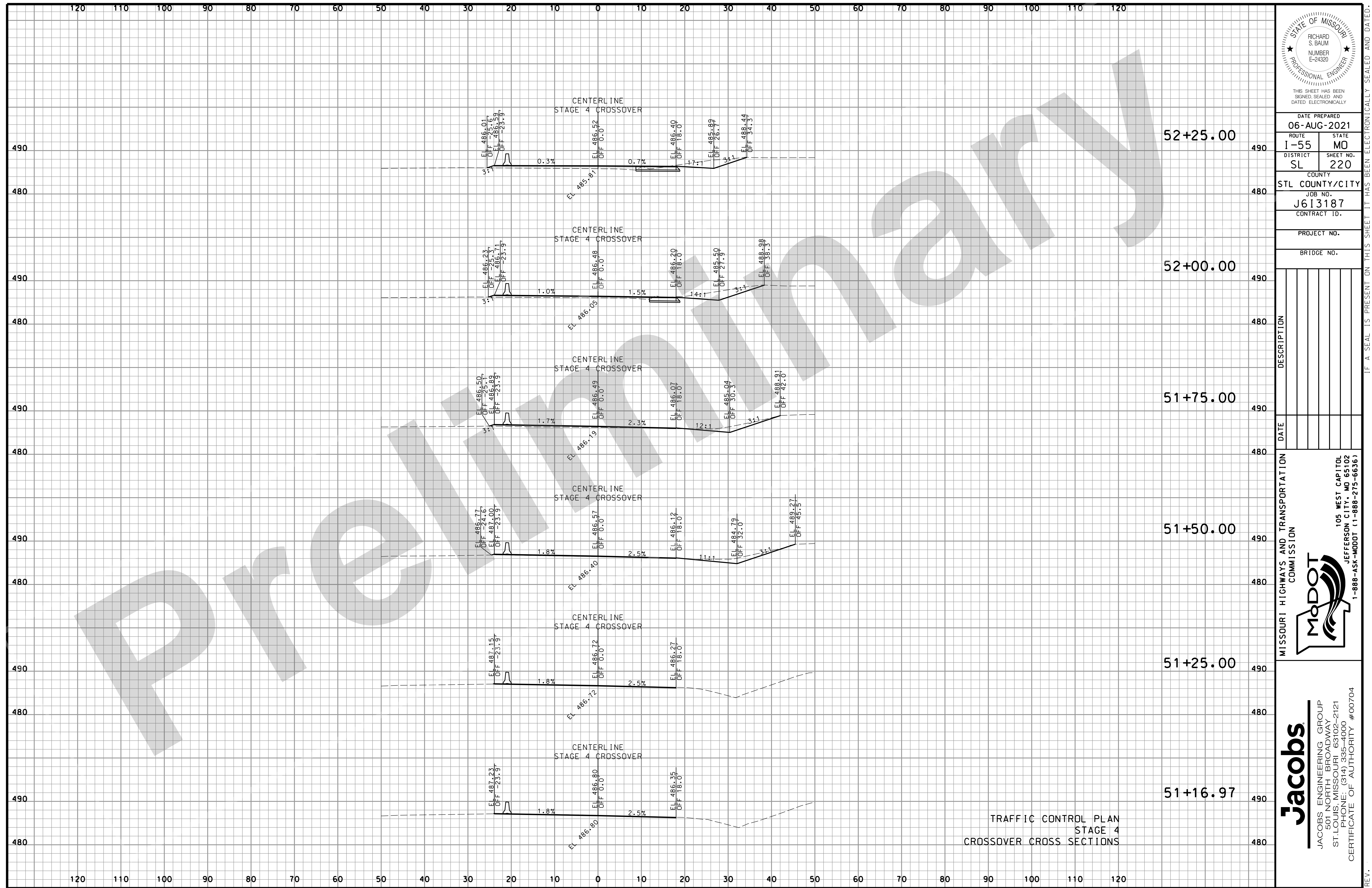
- TSW = TEMPORARY SOLID WHITE
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- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL LEGEND

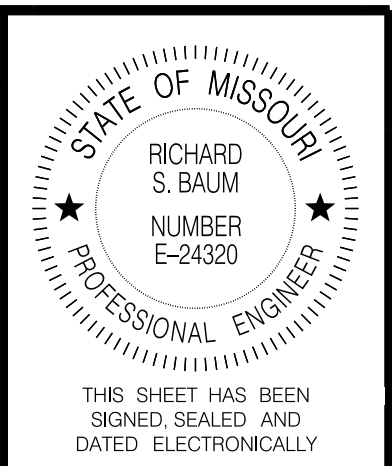
- SIGN (SINGLE SIDED)
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- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌈ BARRICADE
- ◻ ARROW BOARD
- ⌋ CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL PLAN
 STAGE 4
 SHEET 31 OF 31

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC CONTROL PLAN
STAGE 4
CROSSOVER CROSS SECTIONS



DATE PREPARED
06-AUG-2021
ROUTE 1-55 STATE MO
DISTRICT SL SHEET NO. 220
COUNTY
STL COUNTY/CITY
JOB NO. J613187
CONTRACT ID.

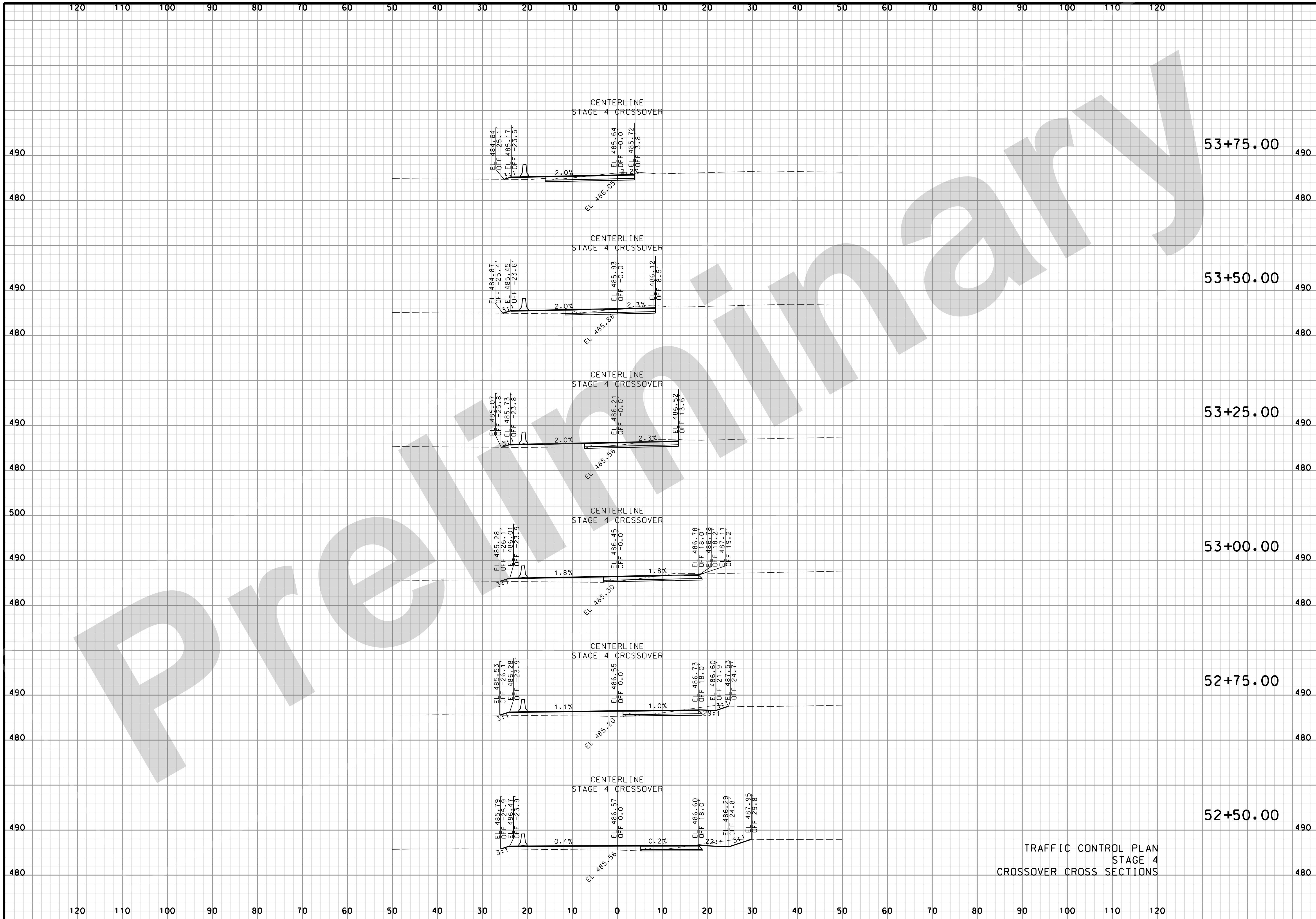
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
06-AUG-2021
ROUTE 1-55 STATE MO
DISTRICT SL SHEET NO. 221
COUNTY
STL COUNTY/CITY
JOB NO. J613187
CONTRACT ID.

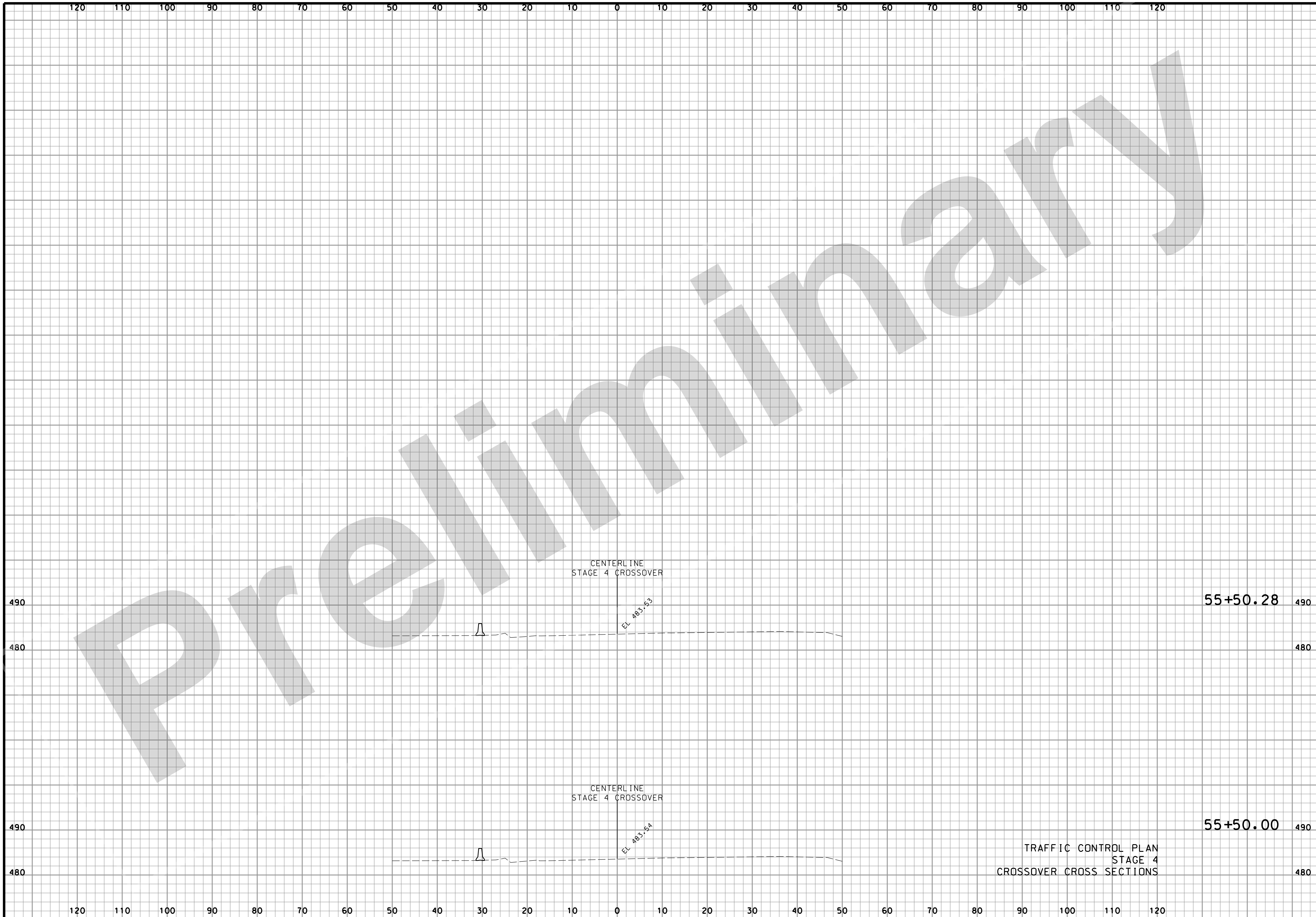
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI
 RICHARD S. BAUM
 NUMBER E-24320
 PROFESSIONAL ENGINEER
 THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
 06-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	223

COUNTY
 STL COUNTY/CITY

JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

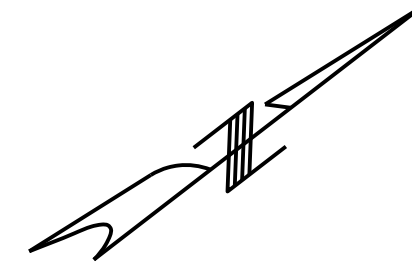
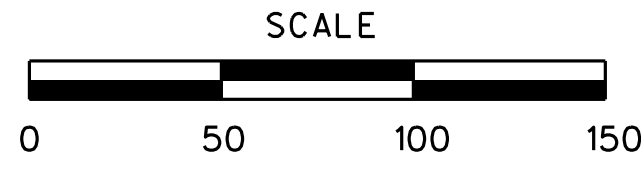
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

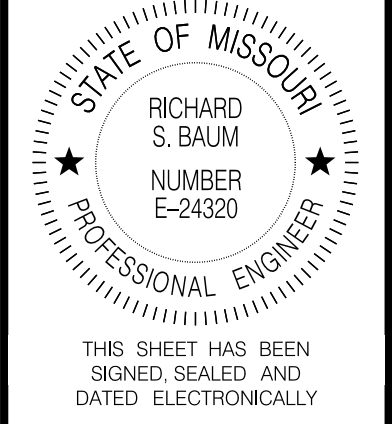
Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 4
 CROSSOVER CROSS SECTIONS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021
 ROUTE STATE
1-55 MO
 DISTRICT SHEET NO.
SL 224
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

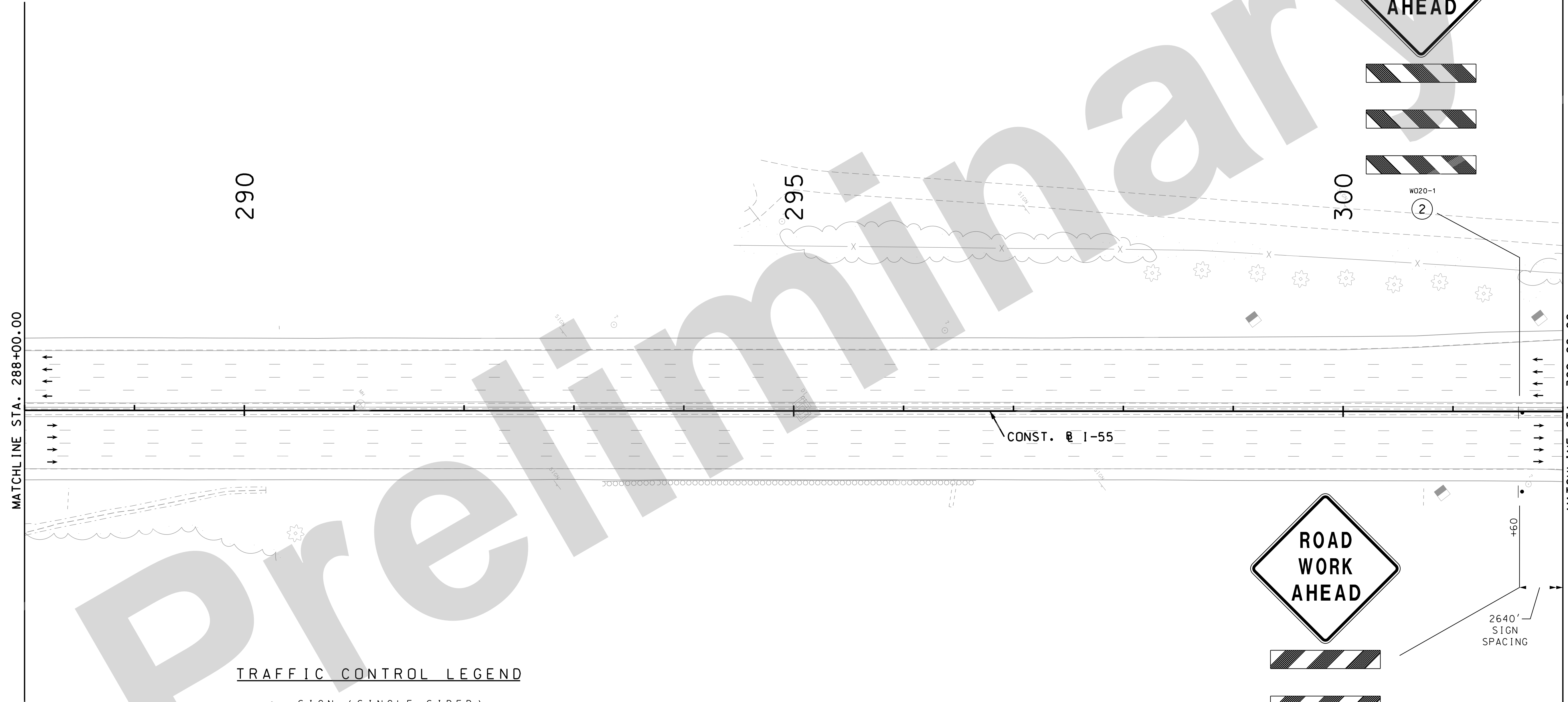
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

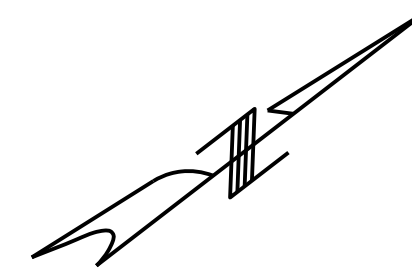
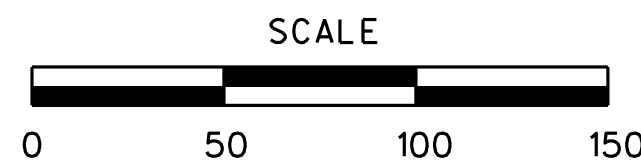
- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- ◻ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ◻ BARRICADE
- ◻ ARROW BOARD
- ◻ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
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- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
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- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 1 OF 15

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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 THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

TRAFFIC CONTROL LEGEND

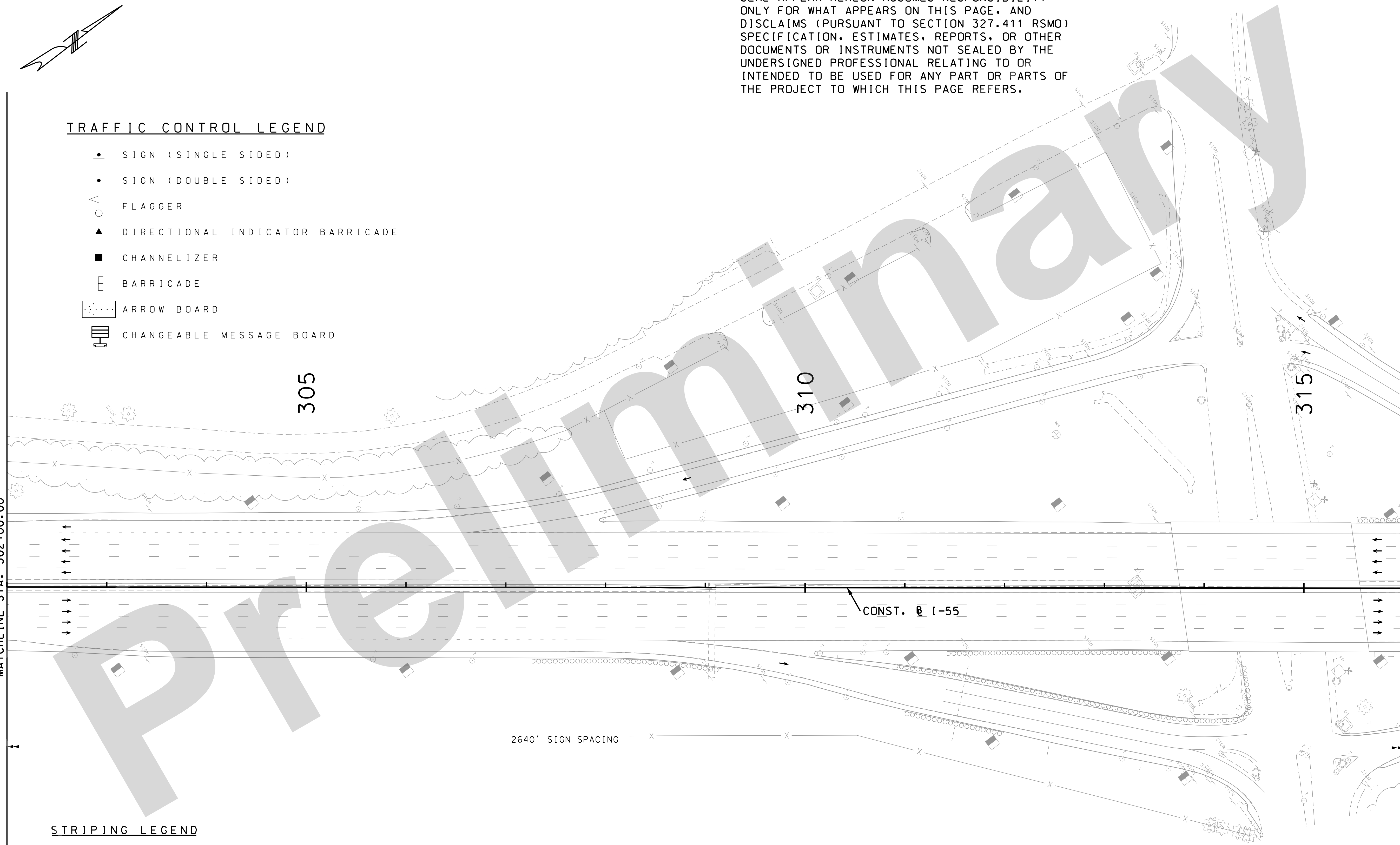
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- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
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- CHANNELIZER
- ⌌ BARRICADE
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- DW = EXIST. DOTTED WHITE

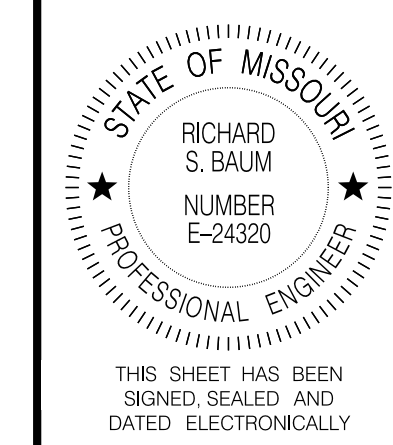
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MATCHLINE STA. 316+00.00



2640' SIGN SPACING

CONST. @ I-55



DATE PREPARED
05-AUG-2021

ROUTE 1-55 STATE MO
 DISTRICT SL SHEET NO. 225

COUNTY
STL COUNTY/CITY
 JOB NO. J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

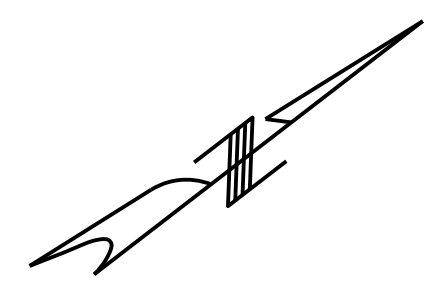
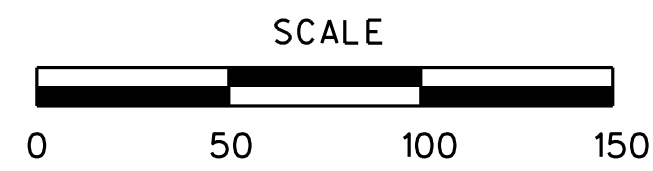
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

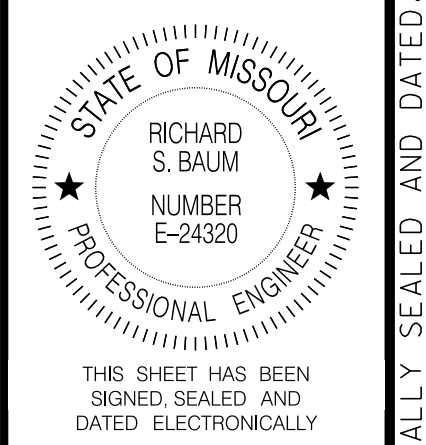
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 2 OF 15

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 227

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

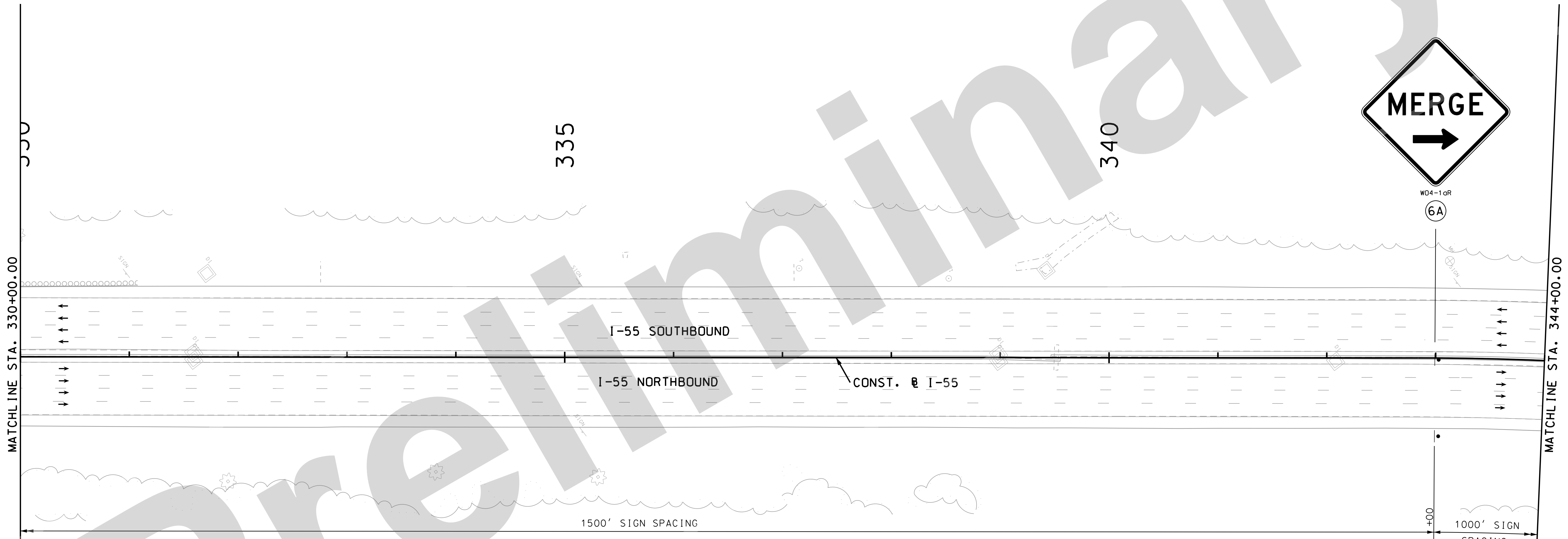
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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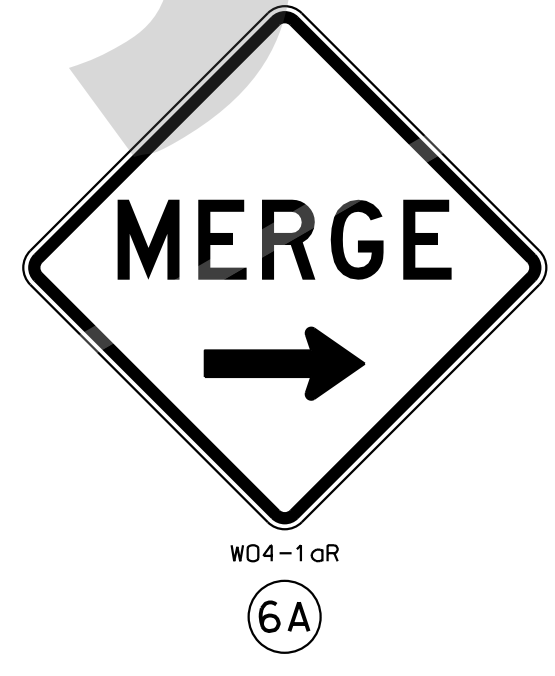


TRAFFIC CONTROL LEGEND

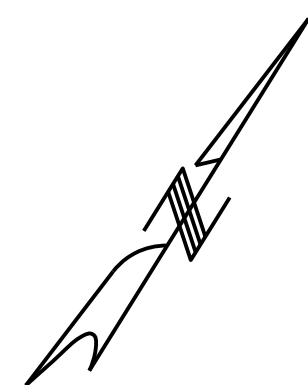
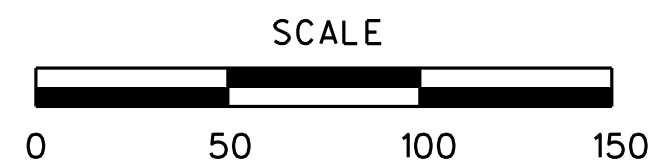
- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- ◊ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ▭ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

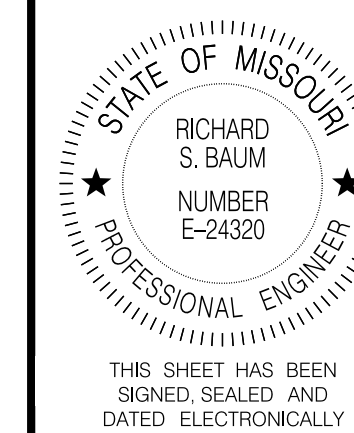
- TSW = TEMPORARY SOLID WHITE
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TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 4 OF 15



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DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 229

COUNTY

STL COUNTY/CITY

JOB NO.
 J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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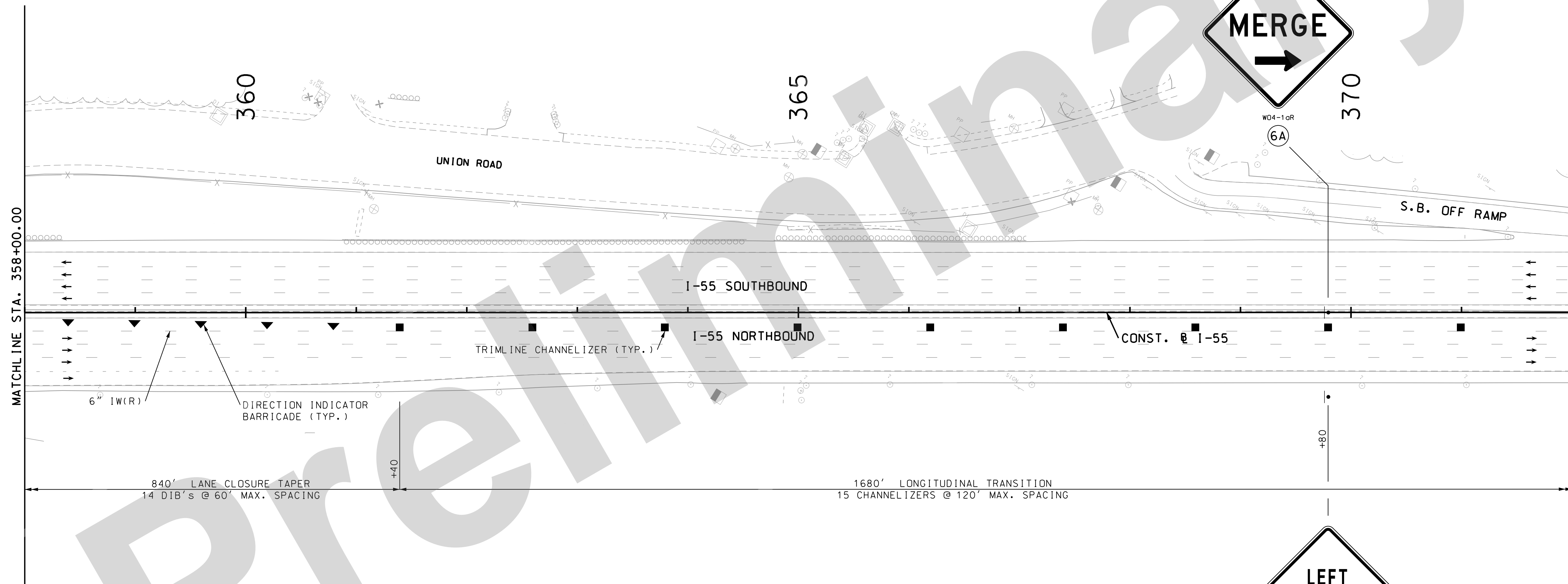
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DATE

DESCRIPTION



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
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TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 6 OF 15

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

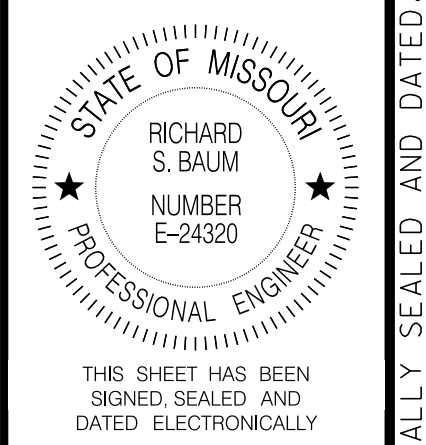
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE: THE CONTRACTOR SHALL SHIFT THE TRAFFIC CONTROL AS NECESSARY TO CONSTRUCT THE BRIDGE APPROACH SLAB AND PAVEMENT.

DISCLAIMER
 THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) SPECIFICATION, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



DATE PREPARED
 05-AUG-2021
 ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 231
 COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

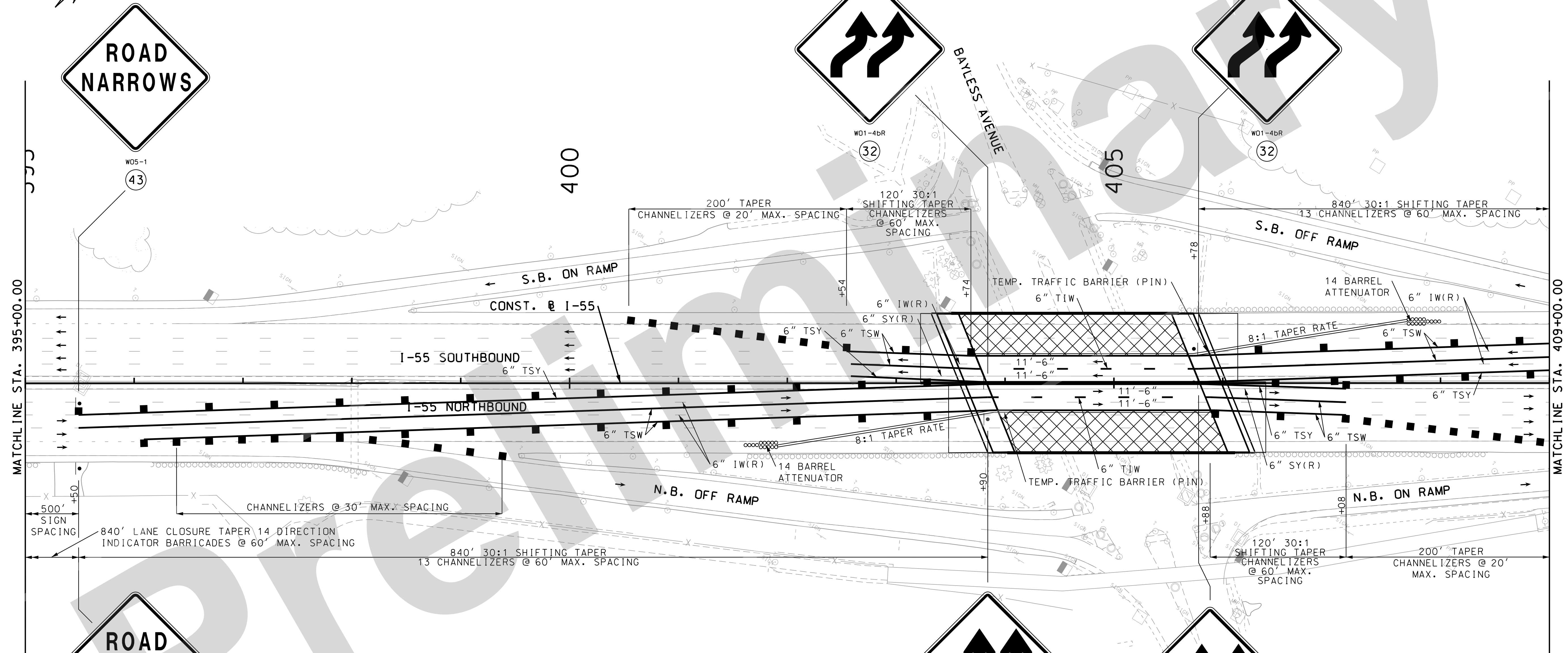
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 8 OF 15



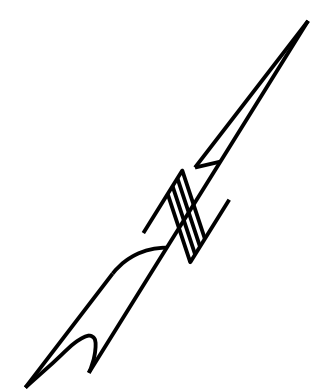
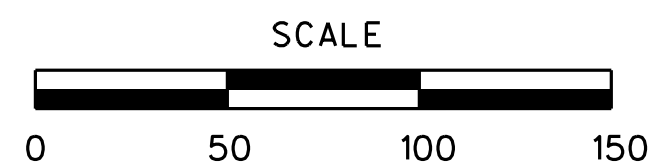
TRAFFIC CONTROL LEGEND

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- ▲ DIRECTIONAL INDICATOR BARRICADE
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- ⌈ BARRICADE
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- ⌈ CHANGEABLE MESSAGE BOARD

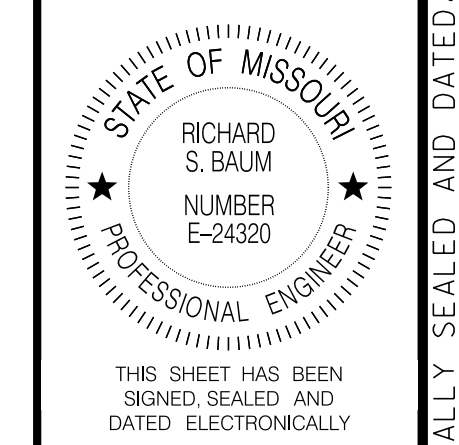
STRIPING LEGEND

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- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE

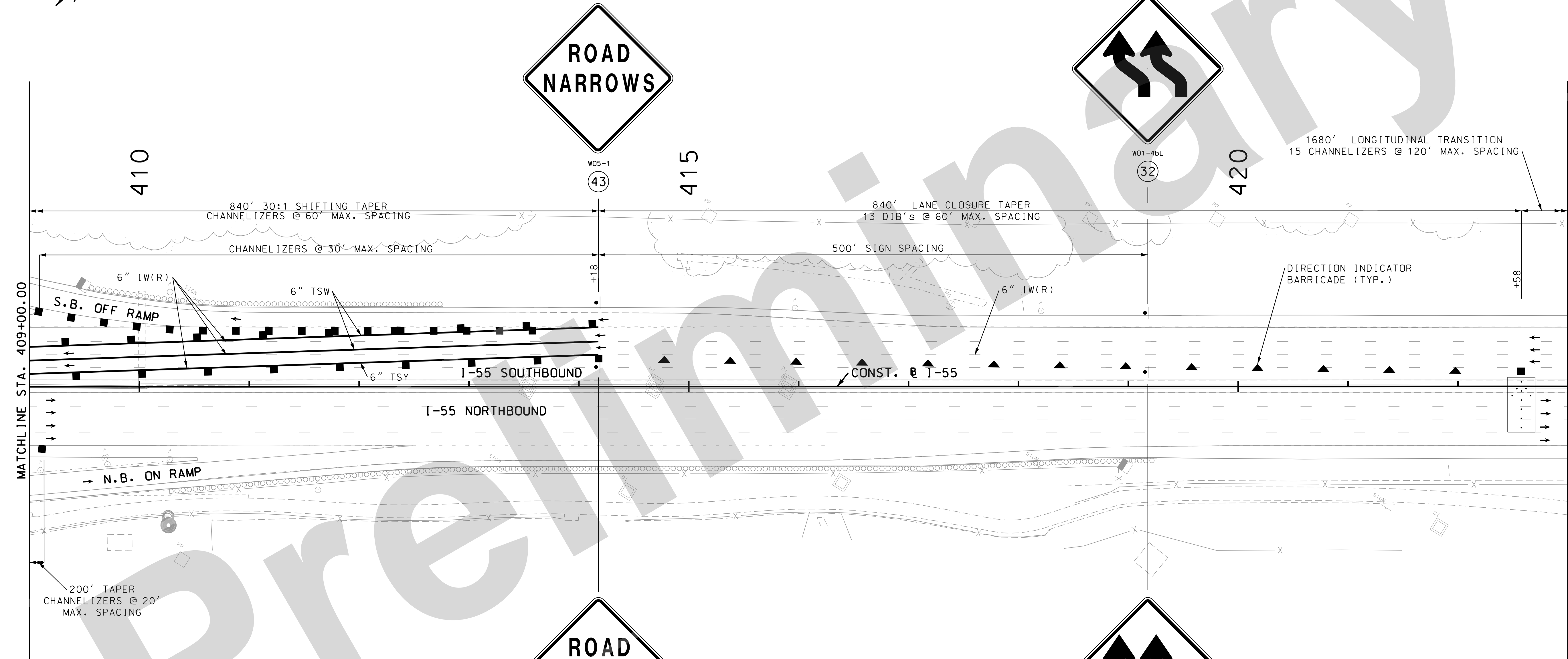
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 232
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- ⌈ BARRICADE
- ⋯ ARROW BOARD
- ⌈ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
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- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

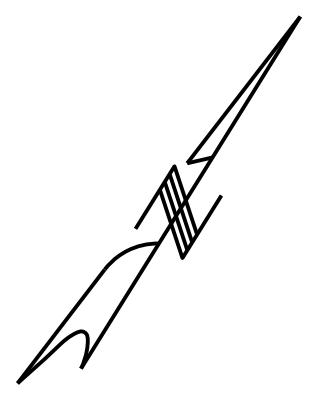
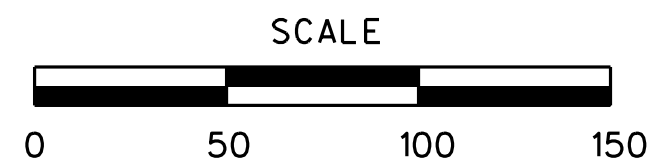
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

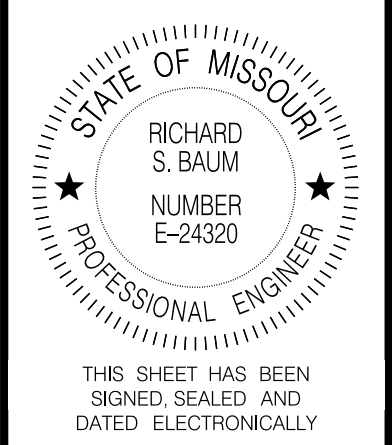
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 9 OF 15

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DATE PREPARED
05-AUG-2021

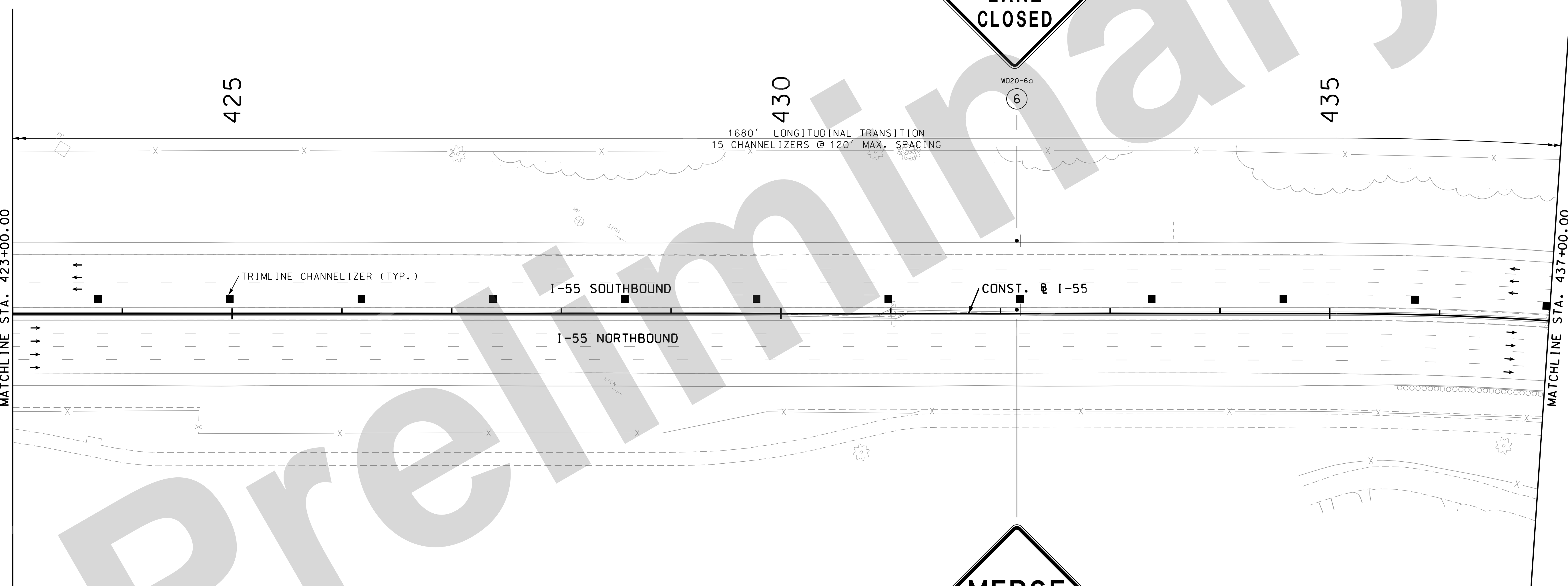
ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	233

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

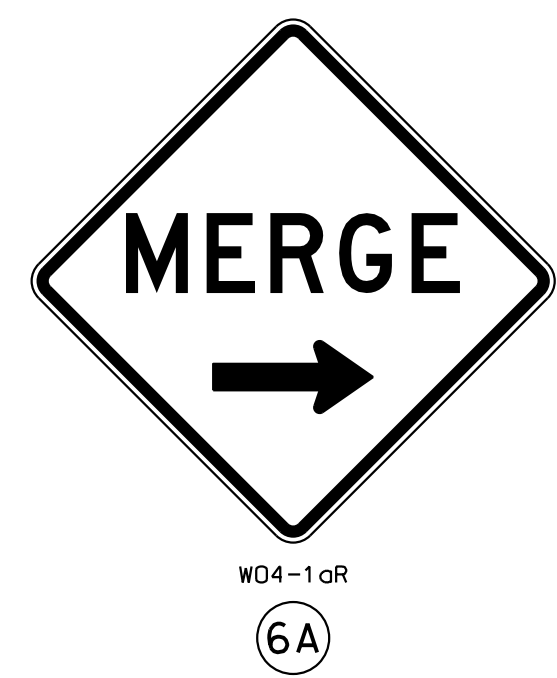


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
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- ☐ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

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- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

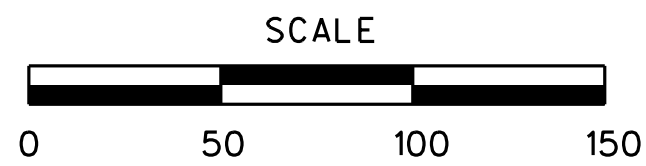
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

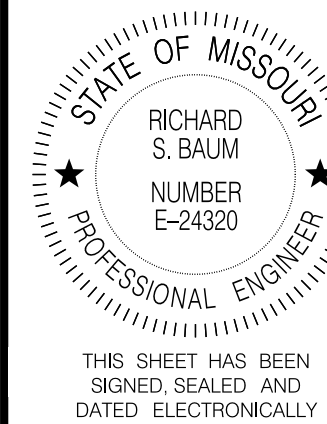
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 10 OF 15

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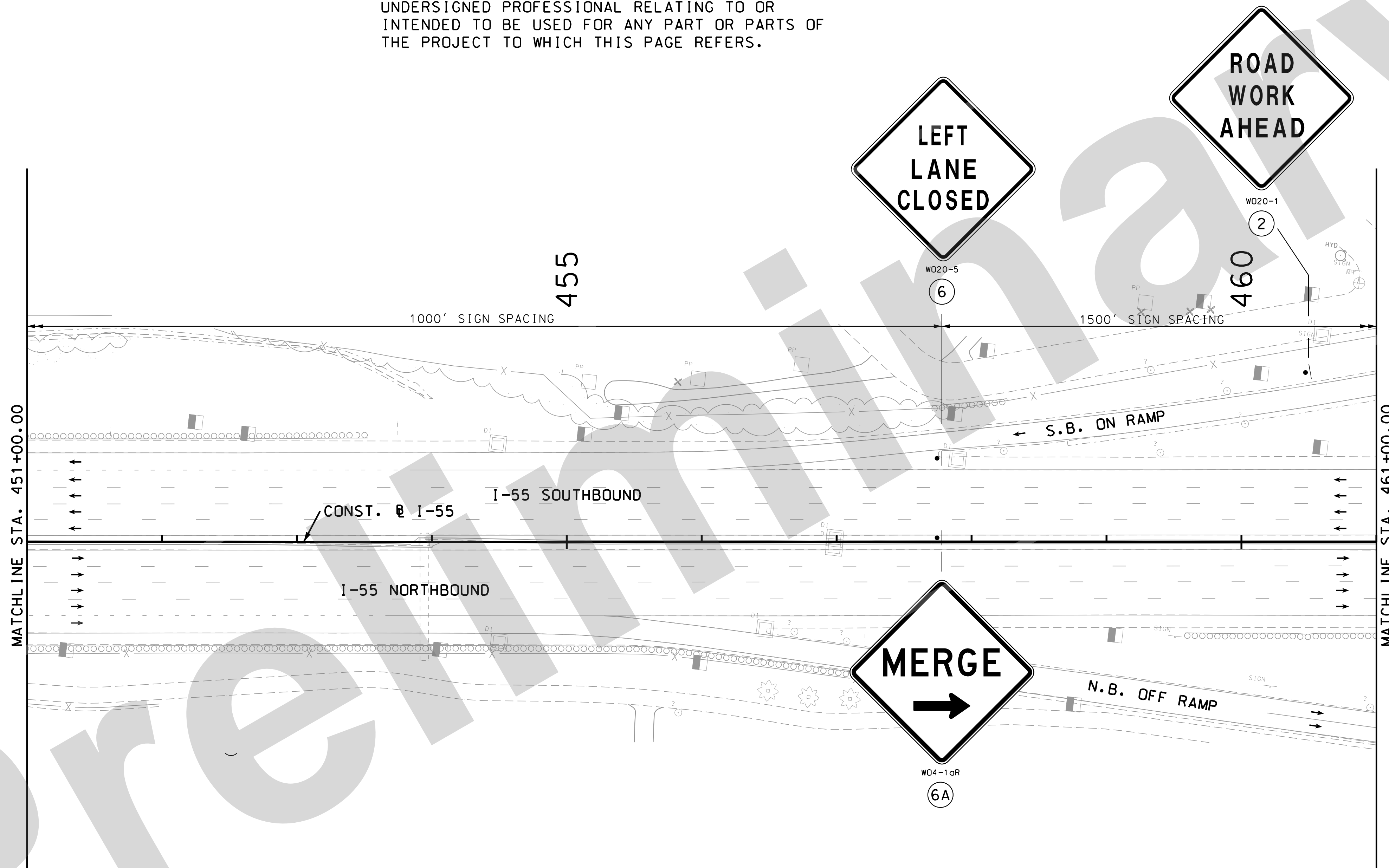
DATE PREPARED
 05-AUG-2021

ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 235

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

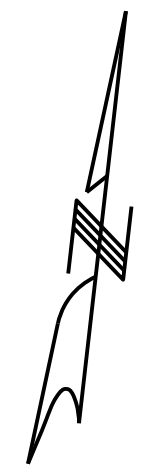
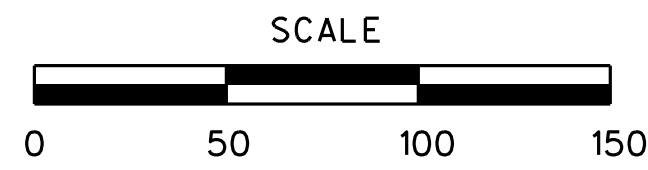
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs

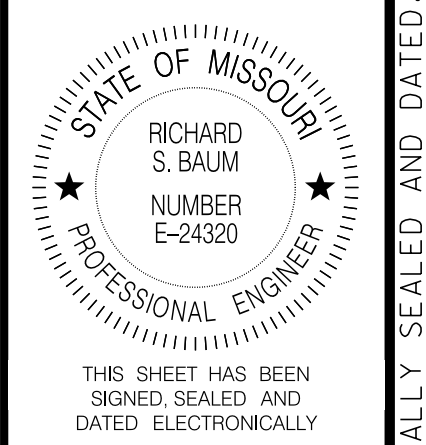
JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 5
 SHEET 12 OF 15

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 242
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

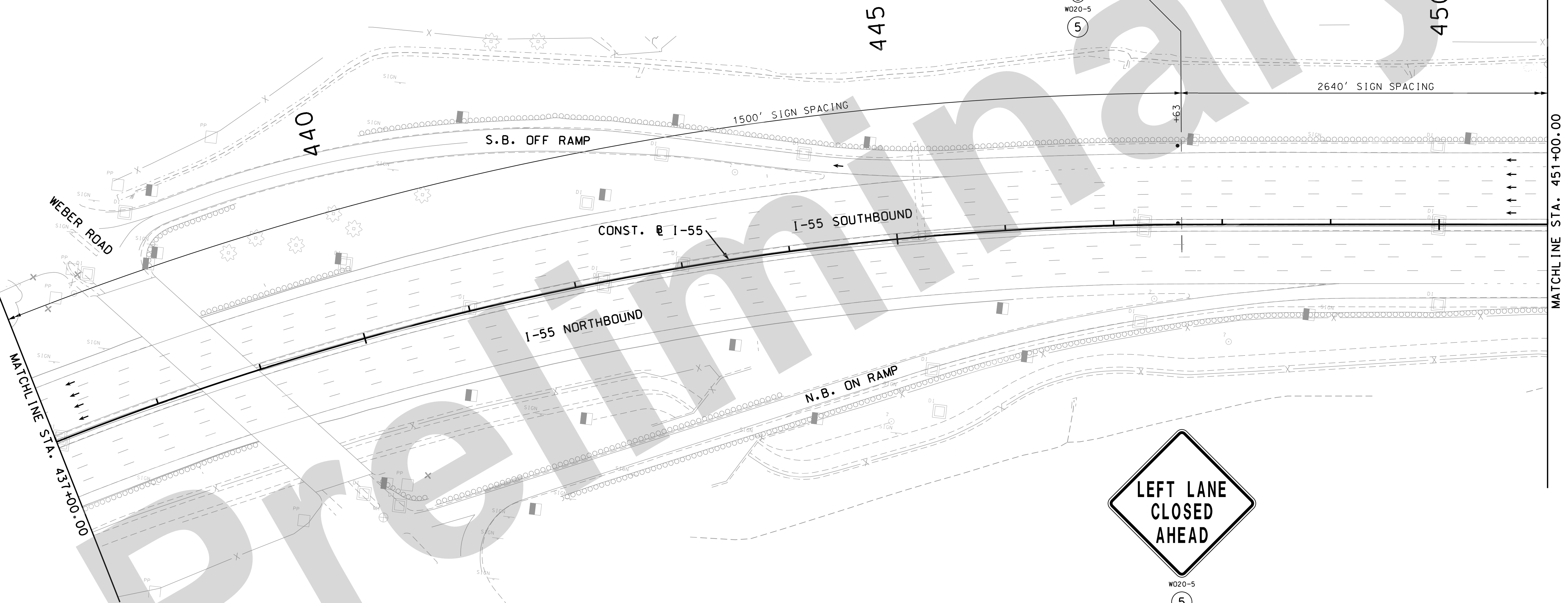
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
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TRAFFIC CONTROL LEGEND

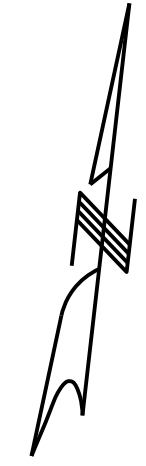
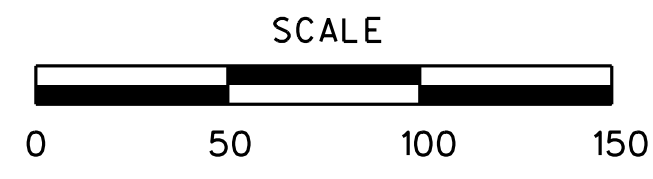
- SIGN (SINGLE SIDED)
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- ⌂ BARRICADE
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- Ⓜ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

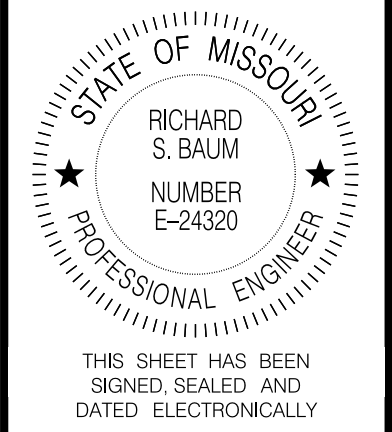
- TSW = TEMPORARY SOLID WHITE
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FOR CLARITY, TEMPORARY TRAFFIC CONTROL FOR STAGE 5 IS NOT SHOWN ON THIS SHEET. SEE STAGE 5 TEMPORARY TRAFFIC CONTROL PLAN.

TRAFFIC CONTROL PLAN
 STAGE 5A
 SHEET 4 OF 6



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05-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
SL	243

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

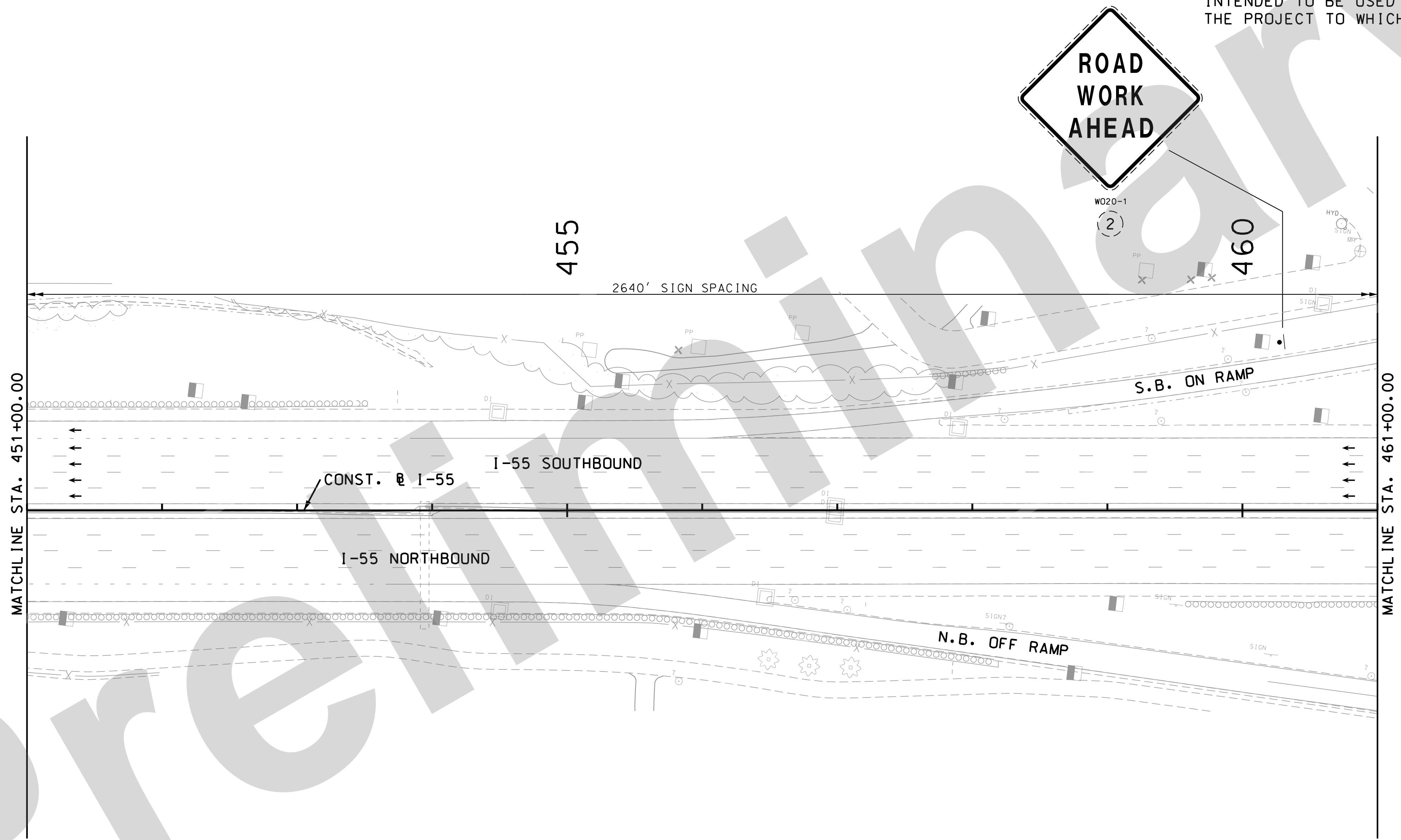
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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- ☒ CHANGEABLE MESSAGE BOARD

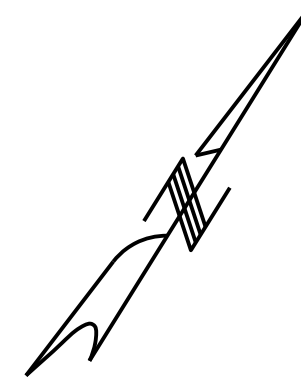
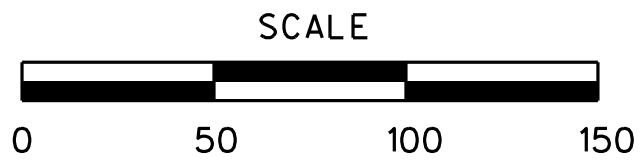
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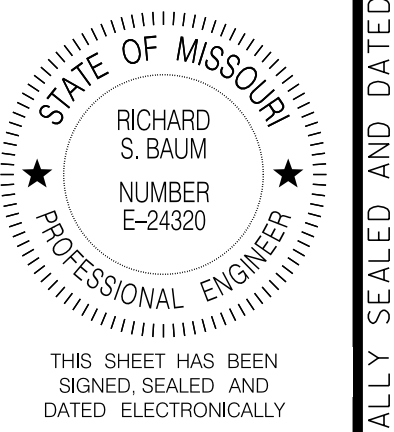
FOR CLARITY, TEMPORARY TRAFFIC CONTROL FOR STAGE 5 IS NOT SHOWN ON THIS SHEET. SEE STAGE 5 TEMPORARY TRAFFIC CONTROL PLAN.

TRAFFIC CONTROL PLAN
 STAGE 5A
 SHEET 5 OF 6

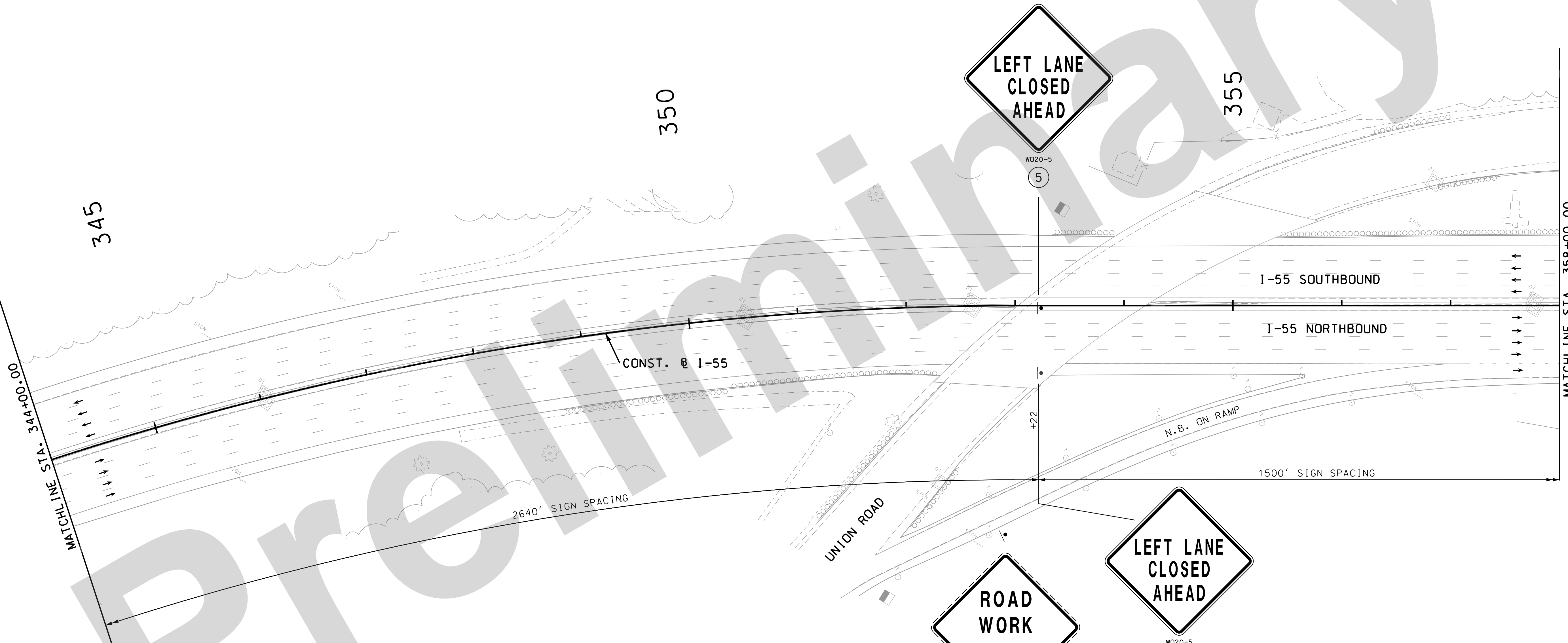
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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 247
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◻ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
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DATE DESCRIPTION

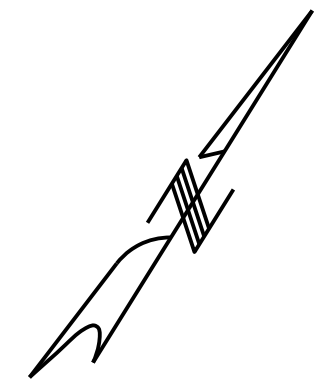
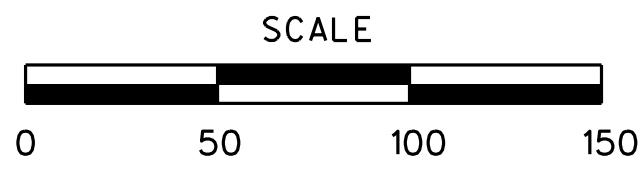
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

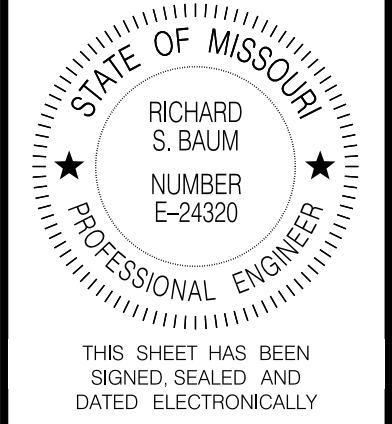
105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 6
 SHEET 3 OF 11



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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 249
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	

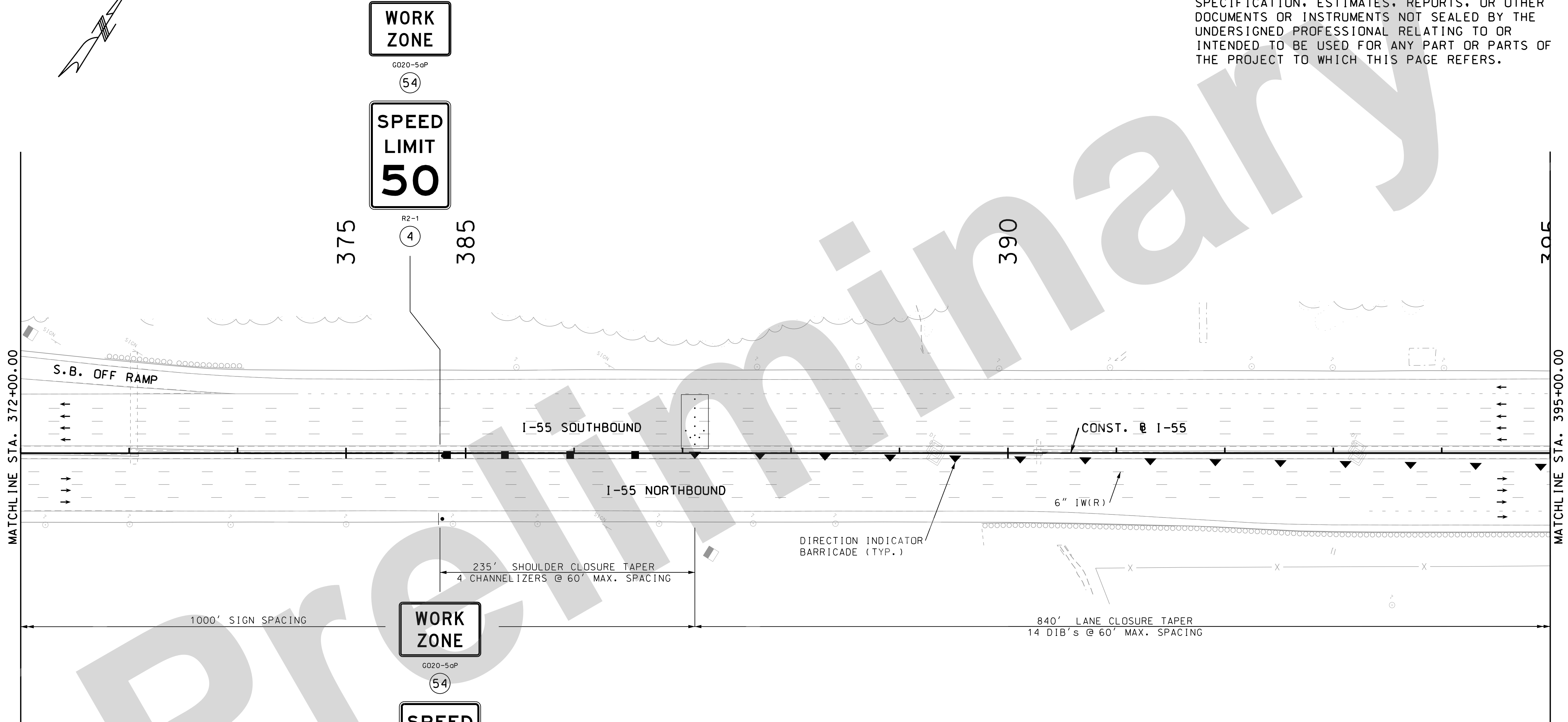
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



TRAFFIC CONTROL LEGEND

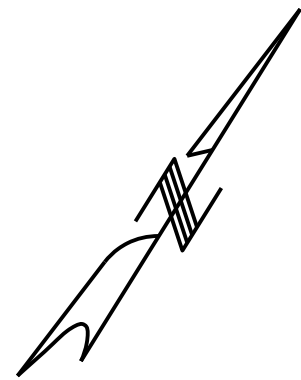
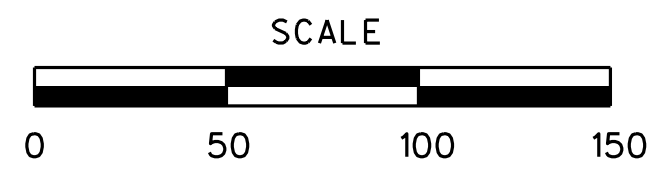
- SIGN (SINGLE SIDED)
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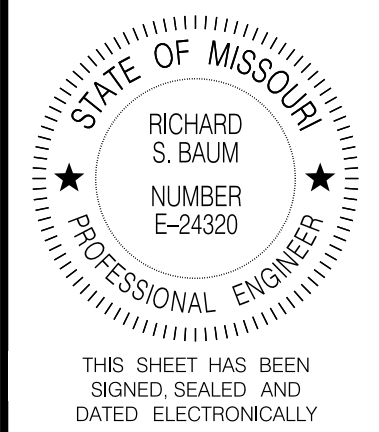
TRAFFIC CONTROL PLAN
 STAGE 6
 SHEET 5 OF 11

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE: THE CONTRACTOR SHALL SHIFT THE TRAFFIC CONTROL AS NECESSARY TO CONSTRUCT THE BRIDGE APPROACH SLAB AND PAVEMENT.

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DATE PREPARED
05-AUG-2021
ROUTE STATE
I-55 MO
DISTRICT SHEET NO.
SL 250
COUNTY
STL COUNTY/CITY
JOB NO.
J613187
CONTRACT ID.

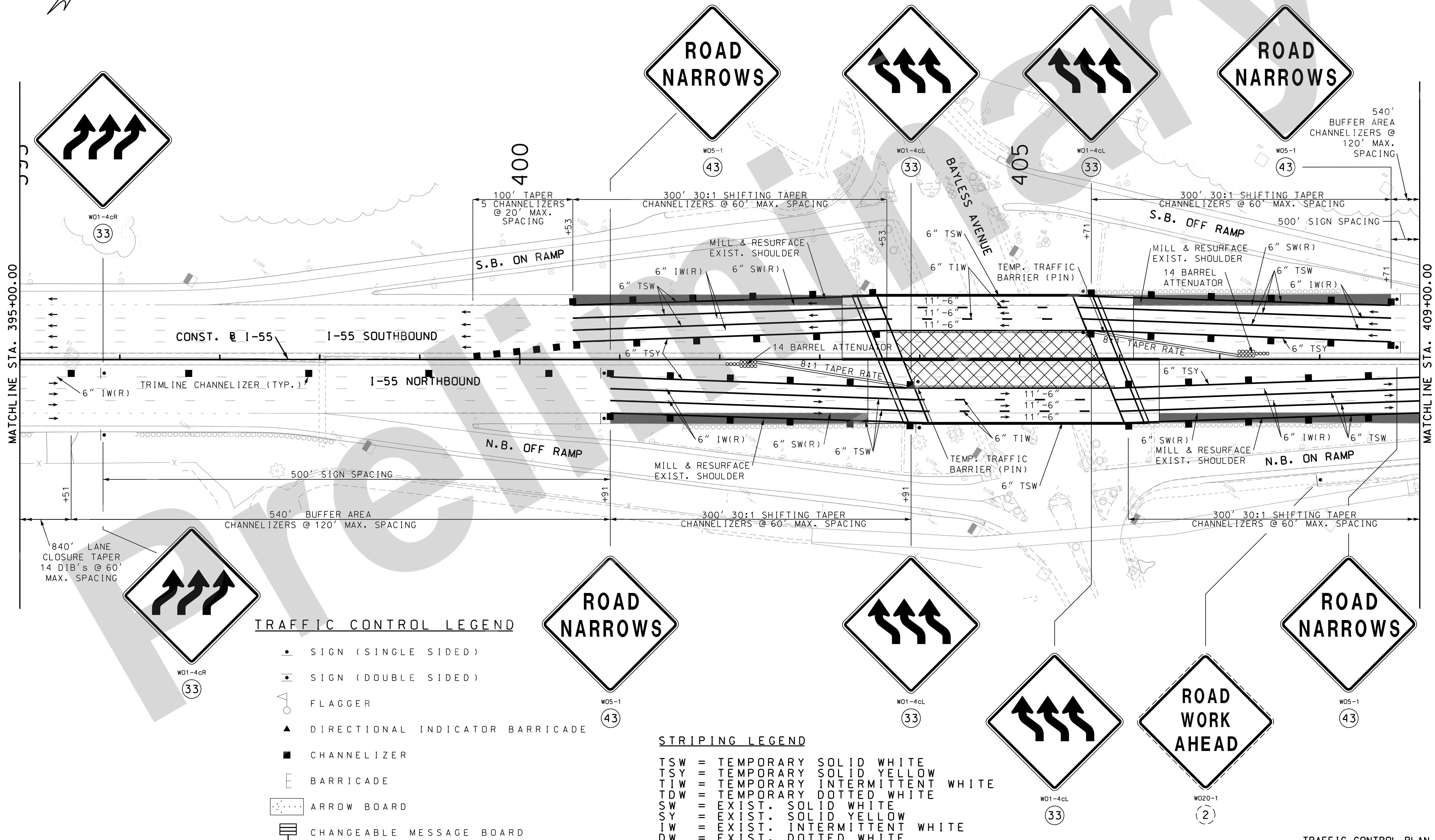
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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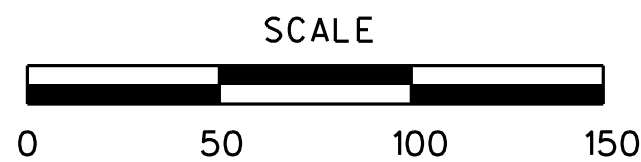


TRAFFIC CONTROL LEGEND

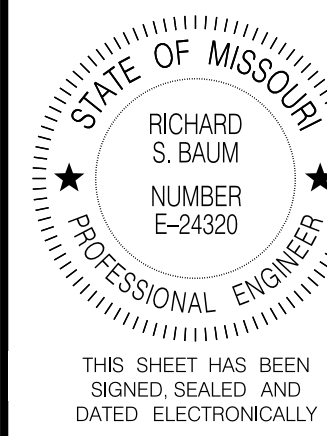
- SIGN (SINGLE SIDED)
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- ◌ FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
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DATE PREPARED
 05-AUG-2021

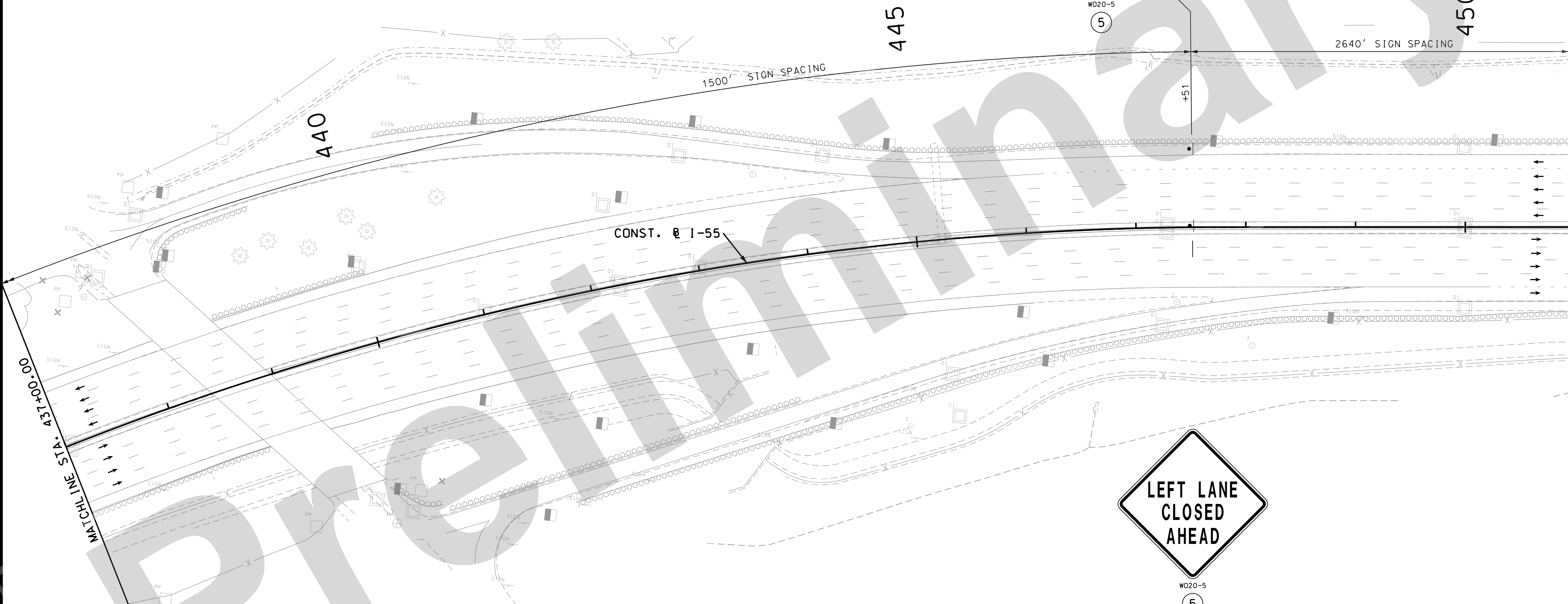
ROUTE STATE
 I-55 MO
 DISTRICT SHEET NO.
 SL 253

COUNTY
 STL COUNTY/CITY
 JOB NO.
 J613187
 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

MATCH LINE STA. 451+00.00



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
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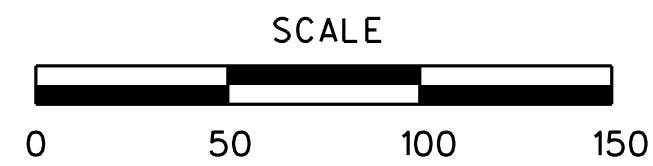
TRAFFIC CONTROL PLAN
 STAGE 6
 SHEET 9 OF 11

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

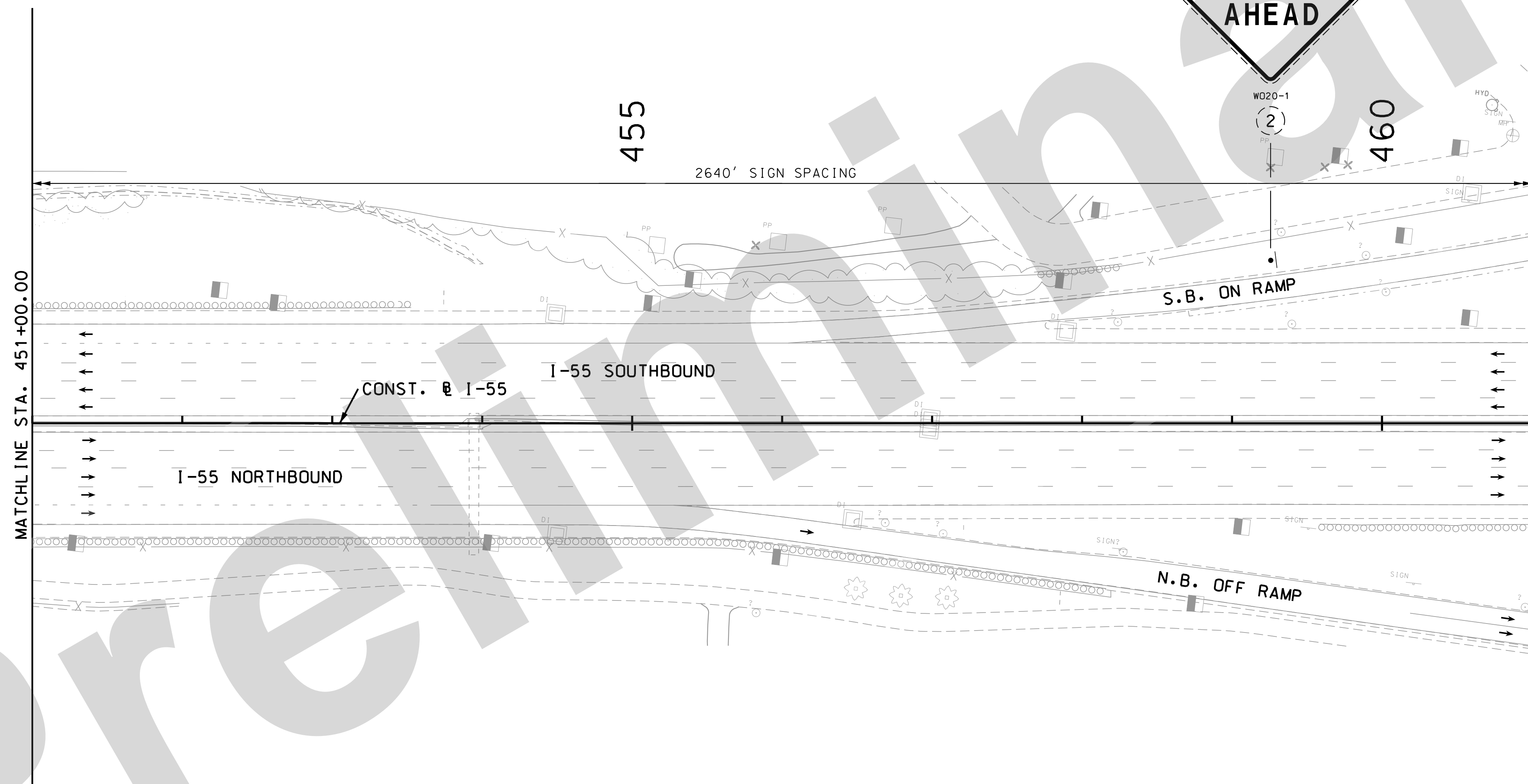


Jacobs
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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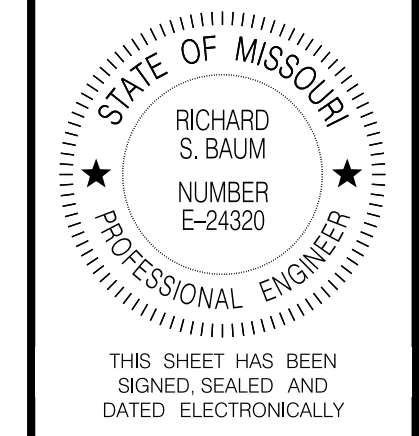


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- ◼ SIGN (DOUBLE SIDED)
- FLAGGER
- ▲ DIRECTIONAL INDICATOR BARRICADE
- CHANNELIZER
- E BARRICADE
- ⋯ ARROW BOARD
- ☐ CHANGEABLE MESSAGE BOARD

STRIPING LEGEND

- TSW = TEMPORARY SOLID WHITE
- TSY = TEMPORARY SOLID YELLOW
- TIW = TEMPORARY INTERMITTENT WHITE
- TDW = TEMPORARY DOTTED WHITE
- SW = EXIST. SOLID WHITE
- SY = EXIST. SOLID YELLOW
- IW = EXIST. INTERMITTENT WHITE
- DW = EXIST. DOTTED WHITE



DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 254
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

TRAFFIC CONTROL PLAN
 STAGE 6
 SHEET 10 OF 11

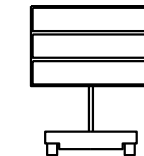
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TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAY.

 PLACE AND/OR RELOCATE UP TO 4 CHANGEABLE MESSAGE BOARDS ON CITY CROSS STREETS FOR VARIOUS DETOURS AND CLOSURES AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

STAGE 2 - EB ARSENAL ST. SB I-55 RAMP CLOSURE

1. TRAVEL EAST ON ARSENAL ST.
2. RIGHT ONTO S. BROADWAY.
3. TRAVEL SOUTH ON BROADWAY CROSSING UNDER I-55.
4. LEFT ONTO PRESIDENT ST.
5. TRAVEL EAST ON PRESIDENT ST.
6. FOLLOW SIGNS TO I-55 SOUTH.

STAGE 2 - WB ARSENAL ST. SB I-55 RAMP CLOSURE

1. TRAVEL WEST ON ARSENAL ST.
2. LEFT ONTO LEMP AVE.
3. TRAVEL SOUTH ON LEMP AVE.
4. LEFT ONTO S. BROADWAY.
5. IMMEDIATE RIGHT ONTO PRESIDENT ST.
6. TRAVEL EAST ON PRESIDENT ST.
7. FOLLOW SIGNS TO I-55 SOUTH.

STAGE 2 - EB CHEROKEE ST. SB I-55 RAMP CLOSURE

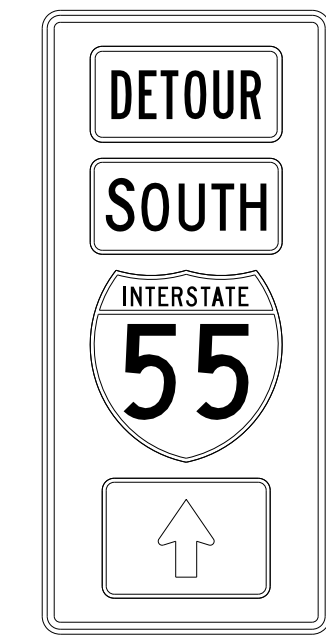
1. TRAVEL EAST ON CHEROKEE ST.
2. RIGHT ONTO S. BROADWAY.
3. TRAVEL SOUTH ON BROADWAY.
4. LEFT ONTO PRESIDENT ST.
5. TRAVEL EAST ON PRESIDENT ST.
6. FOLLOW SIGNS TO I-55 SOUTH.

STAGE 2 - WB CHEROKEE ST. SB I-55 RAMP CLOSURE

1. TRAVEL WEST ON CHEROKEE ST.
2. LEFT ONTO LEMP AVE.
3. TRAVEL SOUTH ON LEMP AVE.
4. LEFT ONTO S. BROADWAY.
5. IMMEDIATE RIGHT ONTO PRESIDENT ST.
6. TRAVEL EAST ON PRESIDENT ST.
7. FOLLOW SIGNS TO I-55 SOUTH.

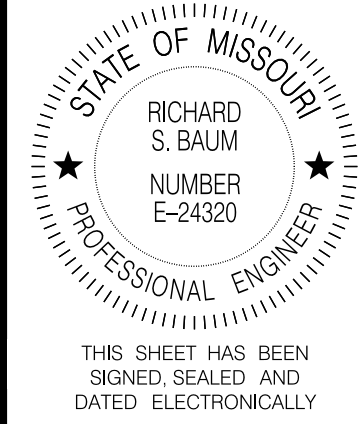


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NOT TO SCALE

TRAFFIC CONTROL PLAN
 STAGE 2 DETOUR
 ARSENAL ST & CHEROKEE ST
 SB I-55 ON RAMP CLOSURE
 SHEET 3 OF 15



DATE PREPARED
05-AUG-2021

ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 258

COUNTY
ST. LOUIS CITY

JOB NO.
J613149

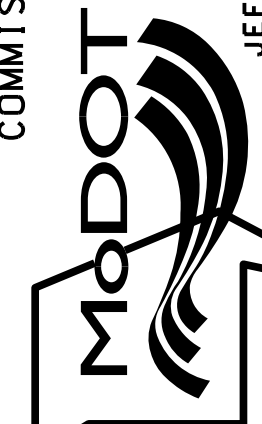
CONTRACT ID.

PROJECT NO.


BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)



JACOBS
 ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

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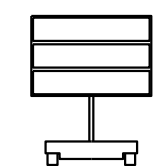
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SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAY.

LEFT TURN LANE CLOSURE AT GERMANIA ST SHALL BE PER MUTCD PART 6.

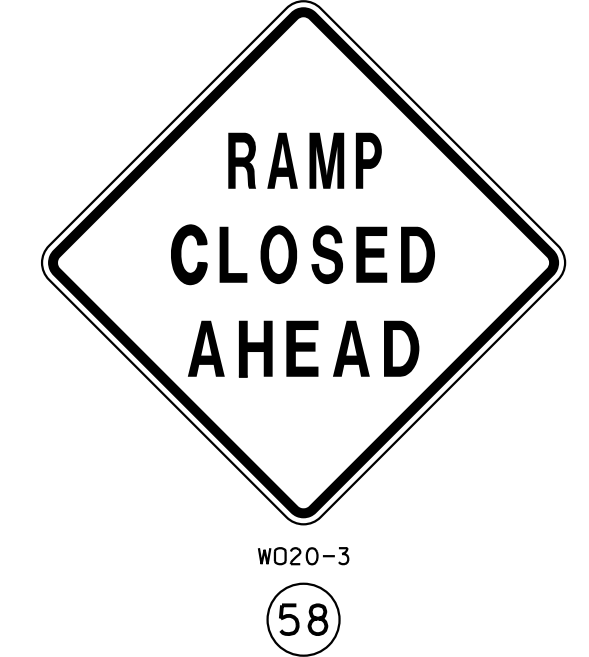
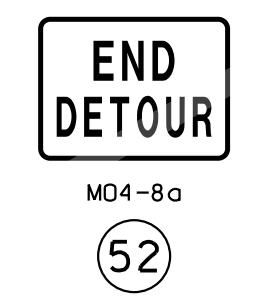
 PLACE AND/OR RELOCATE UP TO 4 CHANGEABLE MESSAGE BOARDS ON CITY CROSS STREETS FOR VARIOUS DETOURS AND CLOSURES AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

STAGE 4 - EB GERMANIA ST. NB I-55 RAMP CLOSURE

1. TRAVEL EAST ON GERMANIA ST.
2. CONTINUE ON MARCEAU ST.
3. TURN LEFT ON S. BROADWAY AVE.
4. TRAVEL NORTH ON S. BROADWAY AVE.
5. LEFT ONTO LOUGHBOROUGH AVE.
6. TRAVEL WEST ON LOUGHBOROUGH AVE.
7. FOLLOW SIGNS TO I-55 NORTH.

STAGE 4 - WB GERMANIA ST. NB I-55 RAMP CLOSURE

1. TRAVEL WEST ON GERMANIA ST.
2. RIGHT ONTO MORGAN FORD RD.
3. TRAVEL NORTH ON MORGAN FORD RD.
4. RIGHT ONTO LOUGHBOROUGH AVE.
5. TRAVEL EAST ON LOUGHBOROUGH AVE.
6. FOLLOW SIGNS TO I-55 NORTH.

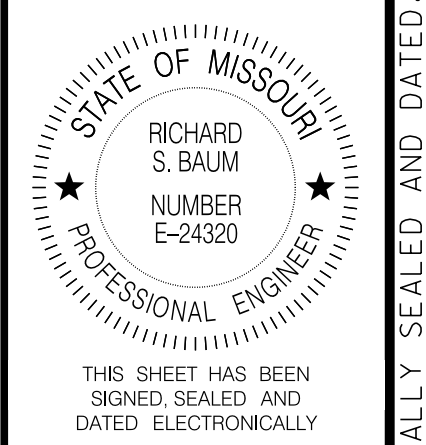


NOT TO SCALE

TRAFFIC CONTROL PLAN
STAGE 4 DETOUR
GERMANIA ST
NB I-55 ON RAMP CLOSURE
SHEET 7 OF 15


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DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 262
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

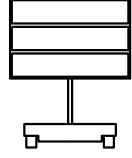
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SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY PEDESTRIAN FENCING.

 PLACE AND/OR RELOCATE UP TO 4 CHANGEABLE MESSAGE BOARDS ON CITY CROSS STREETS AND GRANT'S TRAIL FOR VARIOUS DETOURS AND ROAD AND TRAIL CLOSURES AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

STAGE 3 & 4 - GREEN PARK RD. CLOSURE WB TRAFFIC TURNING LEFT FROM NB UNION RD.

1. TRAVEL NORTH ON UNION RD.
2. LEFT ONTO REAVIS BARRACKS RD.
3. TRAVEL WEST ON REAVIS BARRACKS RD. CROSSING UNDER I-55.
4. CONTINUE NORTH AS REAVIS BARRACKS RD. BECOMES MACKENZIE RD.
5. TRAVEL NORTH ON MACKENZIE RD.
6. LEFT ONTO REAVIS RD.
7. TRAVEL WEST ON REAVIS RD.
8. LEFT ONTO TESSON FERRY RD.
9. TRAVEL SOUTH ON TESSON FERRY RD.
10. LEFT ONTO GREEN PARK RD.

STAGE 3 & 4 - GREEN PARK RD. CLOSURE WB TRAFFIC TURNING RIGHT FROM SB UNION RD.

1. TRAVEL SOUTH ON UNION RD.
2. RIGHT ONTO S. LINDBERGH BLVD.
3. TRAVEL WEST ON S. LINDBERGH BLVD CROSSING OVER I-55.
4. RIGHT ONTO MUELLER RD.
5. TRAVEL NORTH ON MUELLER RD.
6. RIGHT ONTO GREEN PARK RD.

STAGE 3 & 4 - GREEN PARK RD. CLOSURE EB UNION RD. BOUND TRAFFIC

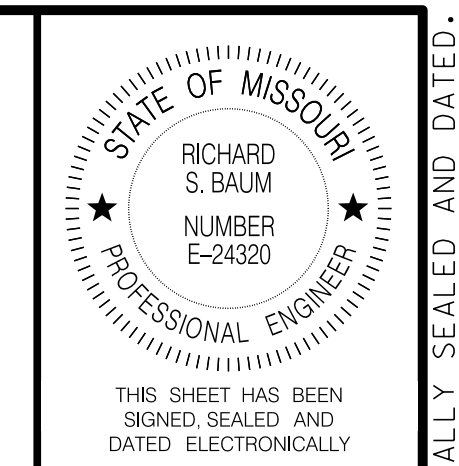
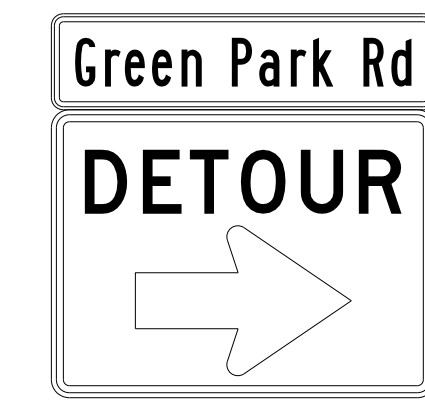
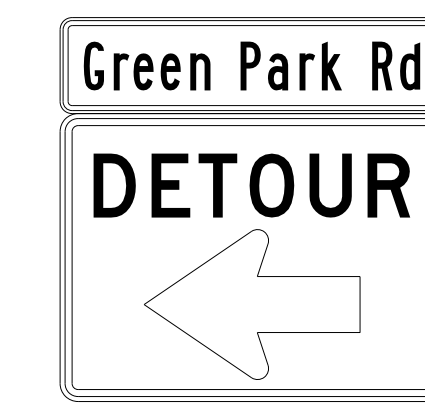
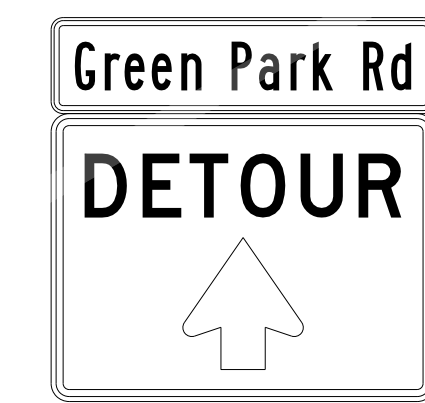
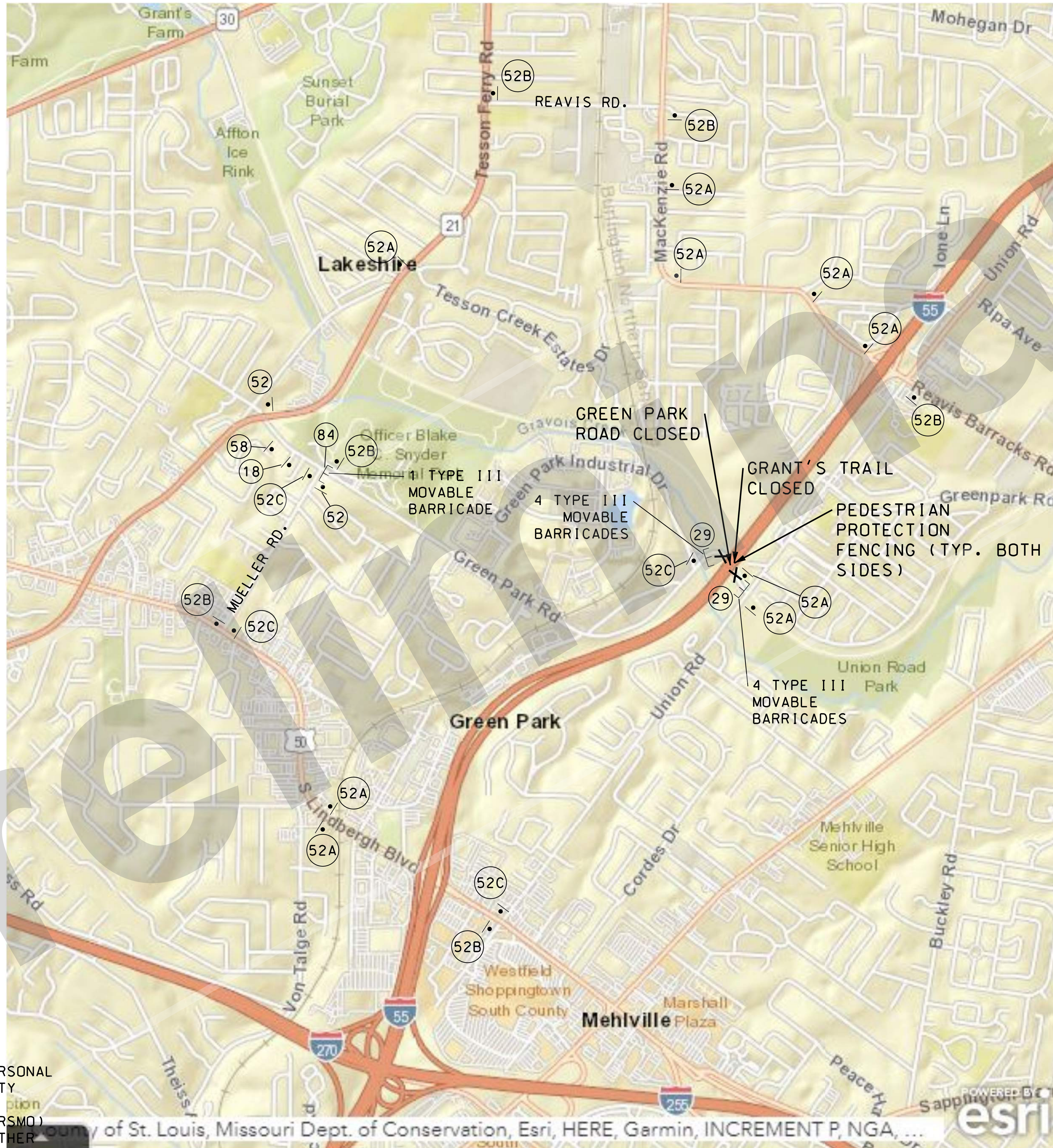
1. TRAVEL EAST ON GREEN PARK RD.
2. RIGHT ONTO MUELLER RD.
3. TRAVEL SOUTH ON MUELLER RD.
4. LEFT ONTO S. LINDBERGH BLVD.
5. TRAVEL EAST ON S. LINDBERGH BLVD CROSSING OVER I-55.
6. LEFT ONTO UNION RD.

STAGE 3 & 4 - GREEN PARK RD. CLOSURE EB UNION RD. BOUND TRAFFIC ORIGINATING EAST OF MUELLER RD.

1. TRAVEL WEST ON GREEN PARK RD.
2. LEFT ONTO MUELLER RD.
3. TRAVEL SOUTH ON MUELLER RD.
4. LEFT ONTO S. LINDBERGH BLVD.
5. TRAVEL EAST ON S. LINDBERGH BLVD CROSSING OVER I-55.
6. LEFT ONTO UNION RD.

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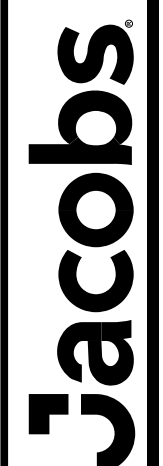
DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 263B
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

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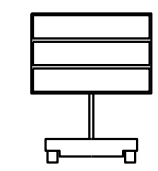
NOT TO SCALE
TRAFFIC CONTROL PLAN
STAGE 3 & 4 DETOUR
GREEN PARK RD AND
GRANT'S TRAIL CLOSURE
FOR I-55 BRIDGE DECK REMOVAL
SHEET 10 OF 15

TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

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REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAY.

 PLACE AND/OR RELOCATE UP TO 4 CHANGEABLE MESSAGE BOARDS ON CITY CROSS STREETS FOR VARIOUS DETOURS AND CLOSURES AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

STAGE 4 - EB LOUGHBOROUGH AVE. SB I-55 RAMP CLOSURE

1. TRAVEL EAST ON LOUGHBOROUGH AVE.
2. RIGHT ONTO S BROADWAY AVE.
3. TRAVEL SOUTH ON S BROADWAY AVE ACROSS RIVER DES PERES.
4. RIGHT ONTO RIVER CITY BLVD.
5. TRAVEL WEST ON RIVER CITY BLVD.
6. CONTINUE WEST AS RIVER CITY BLVD BECOMES CARONDELET BLVD CROSSING UNDER I-55.
7. FOLLOW SIGNS TO I-55 SOUTH.

STAGE 4 - WB LOUGHBOROUGH AVE. SB I-55 RAMP CLOSURE

1. TRAVEL WEST ON LOUGHBOROUGH AVE.
2. LEFT ONTO MORGAN FORD RD.
3. TRAVEL SOUTH ON MORGAN FORD RD ACROSS RIVER DES PERES.
4. LEFT ONTO CARONDELET BLVD.
5. TRAVEL EAST ON CARONDELET BLVD.
6. FOLLOW SIGNS TO I-55 SOUTH.

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ROAD CLOSED

RAMP CLOSED AHEAD

END DETOUR

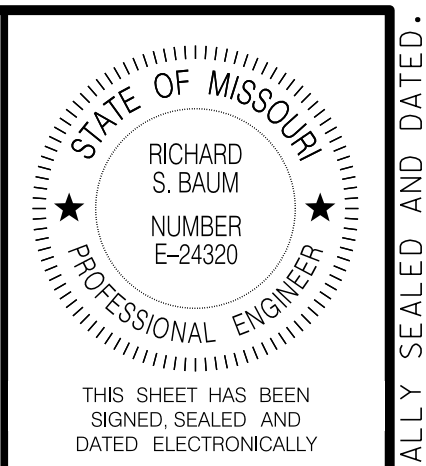
DETOUR SOUTH INTERSTATE 55

DETOUR SOUTH INTERSTATE 55

DETOUR SOUTH INTERSTATE 55

NOT TO SCALE

TRAFFIC CONTROL PLAN
STAGE 4 DETOUR
LOUGHBOROUGH AVE
SB I-55 ON RAMP CLOSURE
SHEET 11 OF 15



DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 263C

COUNTY
STL COUNTY/CITY

JOB NO.
J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

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501 NORTH BROADWAY
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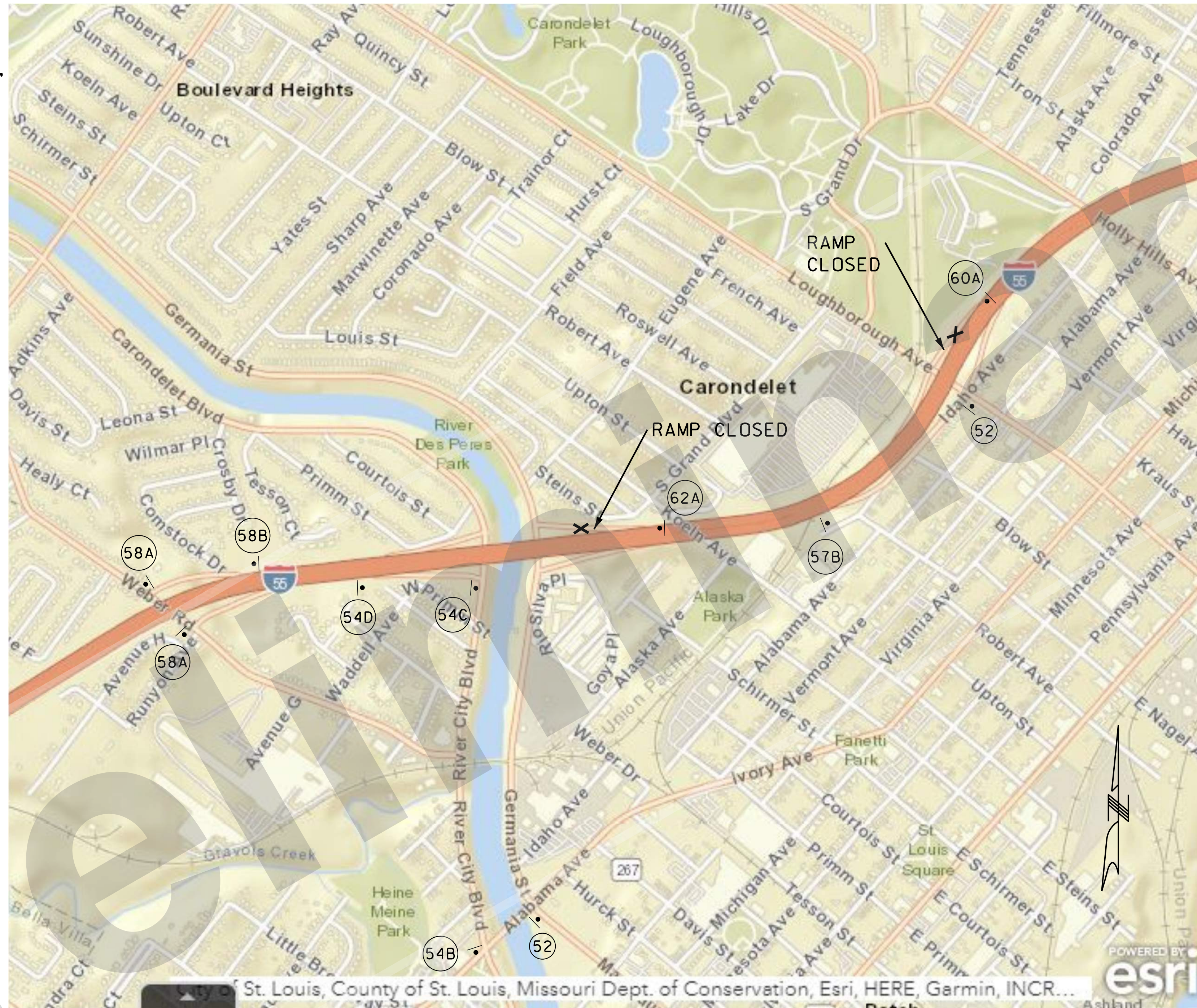
PLACE AND/OR RELOCATE UP TO 4 CHANGEABLE MESSAGE BOARDS ON CITY CROSS STREETS AND I-55 FOR MESSAGES TO SOUTHBOUND TRAFFIC FOR VARIOUS DETOURS AND CLOSURES AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

STAGE 4 - SB I-55 EXIT AT LOUGHBOROUGH AVE. RAMP CLOSURE

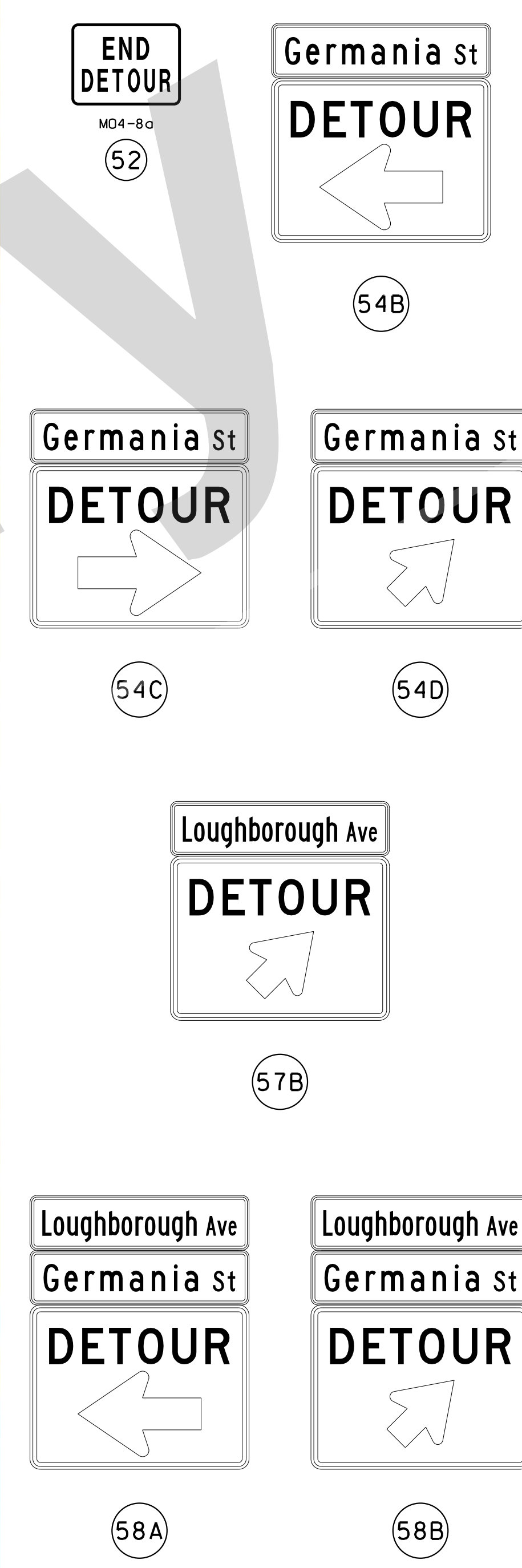
1. TRAVEL SOUTH ON I-55 ON NB LANES IN CROSSOVER.
2. CONTINUE ON SB I-55 THROUGH CROSSOVER BACK TO SB LANES.
3. EXIT 201B WEBER RD.
4. LEFT ONTO WEBER RD.
5. TRAVEL EAST ON WEBER RD ACROSS I-55.
6. LEFT ONTO NB I-55 ON RAMP.
7. TRAVEL NORTH ON I-55.
8. EXIT 202C LOUGHBOROUGH AVE.

STAGE 4 - SB I-55 EXIT AT GERMANIA ST. RAMP CLOSURE

1. TRAVEL SOUTH ON I-55 ON NB LANES IN CROSSOVER.
2. CONTINUE ON SB I-55 THROUGH CROSSOVER BACK TO SB LANES.
3. EXIT 201B WEBER RD.
4. LEFT ONTO WEBER RD.
5. TRAVEL EAST ON WEBER RD ACROSS I-55.
6. LEFT ONTO NB I-55 ON RAMP.
7. TRAVEL NORTH ON I-55.
8. EXIT 202A CARONDELET BLVD/RIVER CITY BLVD.
9. RIGHT ONTO RIVER CITY BLVD.
10. TRAVEL EAST ON RIVER CITY BLVD.
11. LEFT ONTO ALABAMA AVE.
12. TRAVEL NORTH ON ALABAMA AVE ACROSS RIVER DES PERES.
13. ARRIVE AT GERMANIA ST.



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**EXIT 202C
LOUGHBOROUGH
AVE
CLOSED**

**USE EXIT 201B
WEBER RD**

60A

**EXIT 202B
GERMANIA ST
CLOSED**

**USE EXIT 201B
WEBER RD**

62A

NOT TO SCALE
TRAFFIC CONTROL PLAN
STAGE 4 DETOUR
LOUGHBOROUGH AVE & GERMANIA ST ACCESS
SB I-55 OFF RAMP CLOSURE
SHEET 12 OF 15

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STATE OF MISSOURI
RICHARD S. BAUM
NUMBER E-24320
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 05-AUG-2021

ROUTE: I-55	STATE: MO
DISTRICT: SL	SHEET NO.: 263D

COUNTY: STL COUNTY/CITY

JOB NO.: J613187

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

MoDOT

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
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SEE MODOT TYPICAL APPLICATION 37 AND MUTCD PART 6 FOR LANE CLOSURE DETAILS.

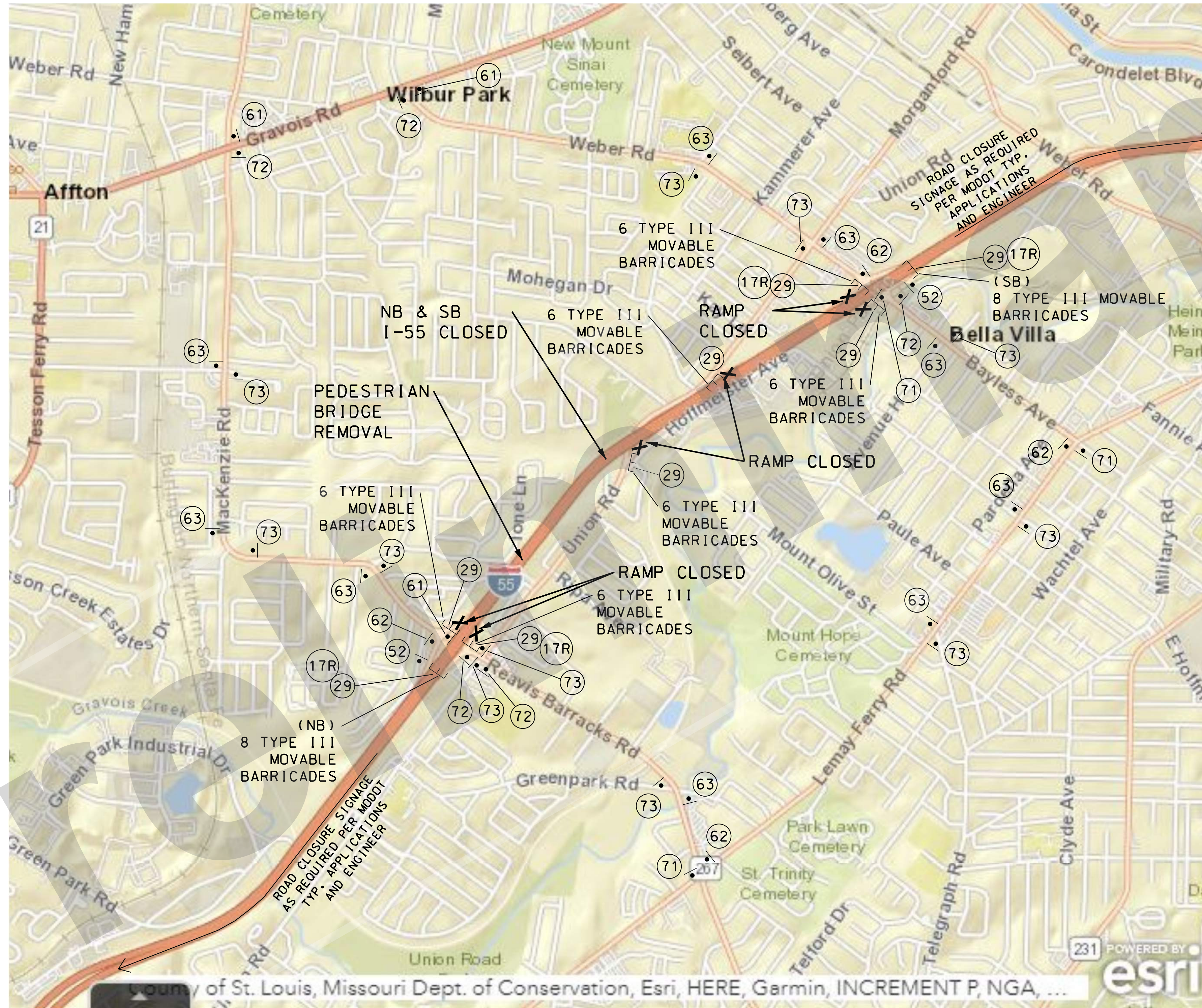
PLACE AND/OR RELOCATE UP TO 4 CHANGEABLE MESSAGE BOARDS ON CITY CROSS STREETS AND I-55 FOR MESSAGES FOR VARIOUS DETOURS AND CLOSURES AS DIRECTED BY THE ENGINEER. EACH CMS SHALL HAVE 5 CHANNELIZERS AT 20' SPACING IN FRONT OF IT.

I-55 CLOSURE NB TRAFFIC

1. TRAVEL NORTH ON I-55.
2. EXIT REAVIS BARRACKS RD.
3. TRAVEL EAST ON REAVIS BARRACKS RD.
4. LEFT ONTO LEMAY FERRY RD.
5. TRAVEL NORTH ON LEMAY FERRY RD.
6. LEFT ONTO BAYLESS AVE.
7. TRAVEL WEST ON BAYLESS AVE.
8. RIGHT TO ON-RAMP TO I-55 NB.

I-55 CLOSURE SB TRAFFIC

1. TRAVEL SOUTH ON I-55.
2. EXIT BAYLESS AVE.
3. RIGHT ONTO BAYLESS AVE.
4. TRAVEL WEST ON BAYLESS AVE.
5. CONTINUE WEST AS BAYLESS AVE BECOMES WEBER RD.
6. LEFT ONTO GRAVOIS RD.
7. TRAVEL WEST ON GRAVOIS RD.
8. LEFT ONTO MACKENZIE RD.
9. TRAVEL SOUTH ON MACKENZIE RD.
10. CONTINUE EAST AS MACKENZIE RD BECOMES REAVIS BARRACKS RD.
11. TRAVEL EAST ON REAVIS BARRACKS RD.
12. RIGHT TO ON-RAMP TO I-55 SB.



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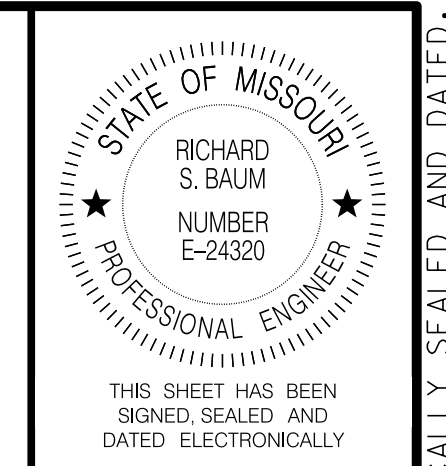
DETOUR (MO4-10R, 17R)

ROAD CLOSED (R11-2, 29)

END DETOUR (MO4-8a, 52)

DETOUR NORTH INTERSTATE 55 (71, 72, 73)

DETOUR SOUTH INTERSTATE 55 (61, 62, 63)



DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 263E
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MODOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

NOT TO SCALE

TRAFFIC CONTROL PLAN
I-55 PEDESTRIAN BRIDGE REMOVAL
SHEET 13 OF 15

TCP NOTES:

NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING, OR REMOVING TCP SIGNS.

SIGN AND DEVICE LOCATIONS WILL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER.

REMOVE OR COVER EXISTING SIGNS THAT CONFLICT WITH TCP SIGNING. NO DIRECT PAY.

UTILIZE TWO (2) TYPE III MOVABLE BARRICADES AT LOCATIONS SHOWN WITH ONE (1) 55D SIGN MOUNTED TO ONE OF THE BARRICADES.

ERECT THE TWO (2) TYPE III MOVABLE BARRICADES TO COMPLETELY BLOCK BIKE AND PEDESTRIAN TRAFFIC FROM PROCEEDING BEYOND THE SIGNAGE.

STAGE 3 & 4 - EB CARONDELET CONNECTOR CLOSURE

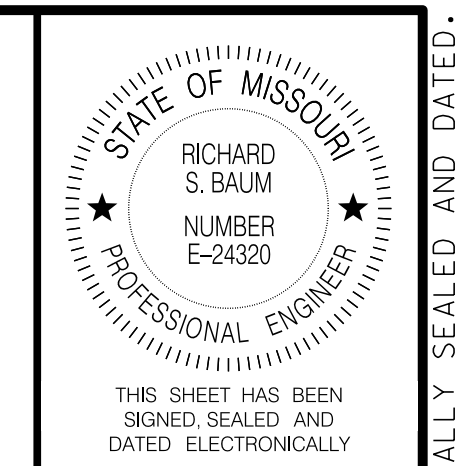
1. TRAVEL EAST ON CARONDELET CONNECTOR.
2. LEFT ONTO KOELN AVE.
3. TRAVEL WEST ON KOELN AVE.
4. RIGHT ONTO S. GRAND AVE.
5. TRAVEL NORTH ON S. GRAND AVE.
6. RIGHT ONTO LOUGHBOROUGH AVE.
7. TRAVEL EAST ON LOUGHBOROUGH AVE.
8. LEFT AT TRAFFIC SIGNAL TO CROSS LOUGHBOROUGH AVE AND ONTO LOUGHBOROUGH DR.
9. TRAVEL NORTH ON LOUGHBOROUGH DR INTO CARONDELET PARK.
10. SLIGHT RIGHT ONTO GRAND DR.
11. TRAVEL NORTH ON GRAND DR AND FOLLOW SIGNS TO REJOIN CARONDELET CONNECTOR.

STAGE 3 & 4 - WB CARONDELET CONNECTOR CLOSURE

1. AT BEGINNING OF CARONDELET CONNECTOR, TURN RIGHT ONTO GRAND DR.
2. TRAVEL SOUTH ON GRAND DR.
3. LEFT ONTO LOUGHBOROUGH DR.
4. TRAVEL SOUTH ON LOUGHBOROUGH DR OUT OF CARONDELET PARK.
5. CROSS LOUGHBOROUGH AVE AT TRAFFIC SIGNAL AND TURN RIGHT.
6. TRAVEL WEST ON LOUGHBOROUGH AVE.
7. LEFT ONTO S. GRAND AVE.
8. TRAVEL SOUTH ON S. GRAND AVE.
9. LEFT ONTO KOELN AVE.
10. TRAVEL EAST ON KOELN AVE.
11. FOLLOW SIGNS RIGHT TO REJOIN CARONDELET CONNECTOR.



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ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 263F
COUNTY STL COUNTY/CITY	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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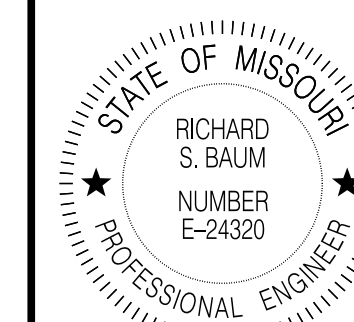
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TRAFFIC CONTROL PLAN
 STAGE 3 & 4 DETOUR
 CARONDELET CONNECTOR CLOSURE
 SHEET 14 OF 15



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 264

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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616.8.3 (TA-3) WORK ON THE SHOULDER ON DIVIDED AND UNDIVIDED HIGHWAYS - DE/CM

SPEED Normal Posted (mph)	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)		Tapers	Buffer/ Work Areas
0-35	200	200	70	245	280	35	40
40-45	350	500	150	540	400	40	80
50-55	500	1000	185	660	560	50	80
60-70	1000	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

NOTES:

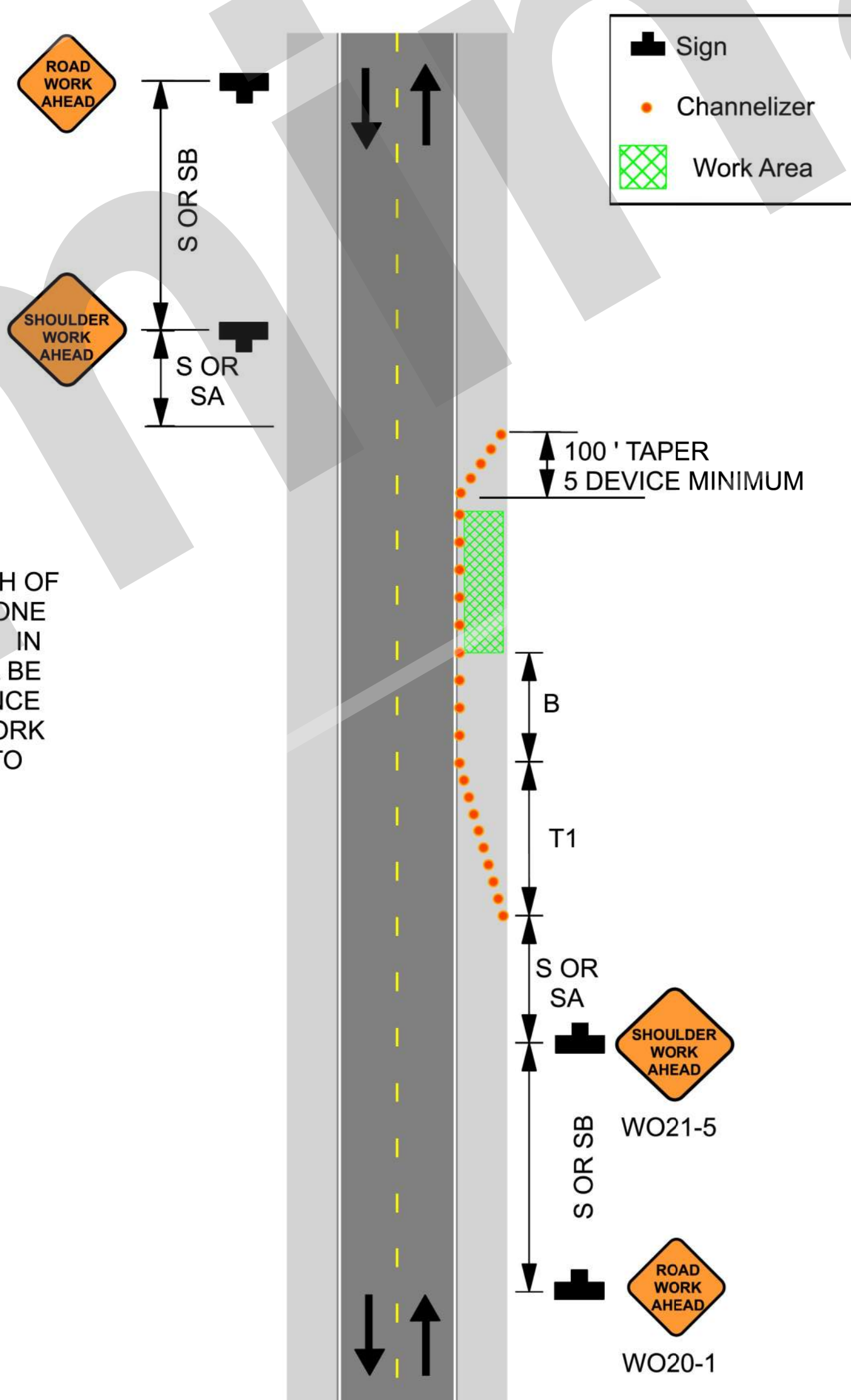
PROVIDE SIGNS ON LEFT AND RIGHT SIDES OF DIVIDED HIGHWAYS

ROAD WORK AHEAD SIGN NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD SIGN IS ALREADY USED.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S ROTATING LIGHTS OR STROBE LIGHTS.

WHEN PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR MORE ARE CLOSED, AT LEAST ONE ADVANCE WARNING SIGN SHALL BE USED. IN ADDITION, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND DIRECT VEHICULAR TRAFFIC TO REMAIN WITHIN THE TRAVELED WAY.



TA - 3

1/16

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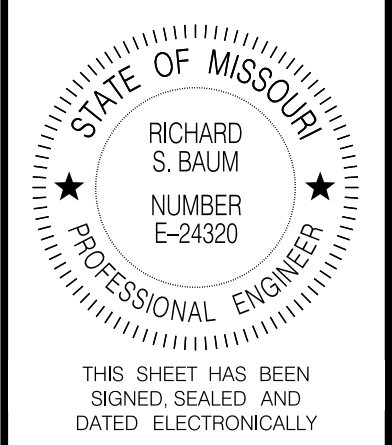
TRAFFIC CONTROL PLAN
TYPICAL APPLICATIONS
SHEET 1 OF 23

Pre

Early

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I-55 MO

DISTRICT SHEET NO.
SL 271

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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TRAFFIC CONTROL PLAN

TYPICAL APPLICATIONS

SHEET 8 OF 23

616.8.34 (TA-34) Lane Closure with a Temporary Traffic Barrier - DE/CM

www.invarion.com

Permanent Posted (mph)	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)		Tapers	Buffer/Work Areas
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

Notes:

See EPG 616.12 Work Zone Speed Limits for speed limit guidelines.

Remove and/or modify any existing pavement marking as needed.

Temporary pavement marking required with long term closures.

Temporary traffic barriers, if used, shall comply with the provisions in EPG 616.6.85 Temporary Traffic Barriers.

(3) Flare barrier to extend beyond clear zone or flare barrier to edge line and use approved end treatment.

(3) Concrete barrier shall be installed at an 8:1 flare rate within the travel lanes.

(3) Concrete barrier may be installed at an 8:1 flare rate from the shoulder point to the limits of the clear zone where the side slope is 6:1 or flatter.

(3) Approved Crash Cushion are to be used when the posted speed limit prior to road work is greater than or equal to 40 mph.

(3) Barrier Height Transition may be used when the posted speed limit prior to road work is less than 40 mph.

Review 616.8.33 (TA-33) Stationary Lane Closure on a Divided Highway - DE/CM.

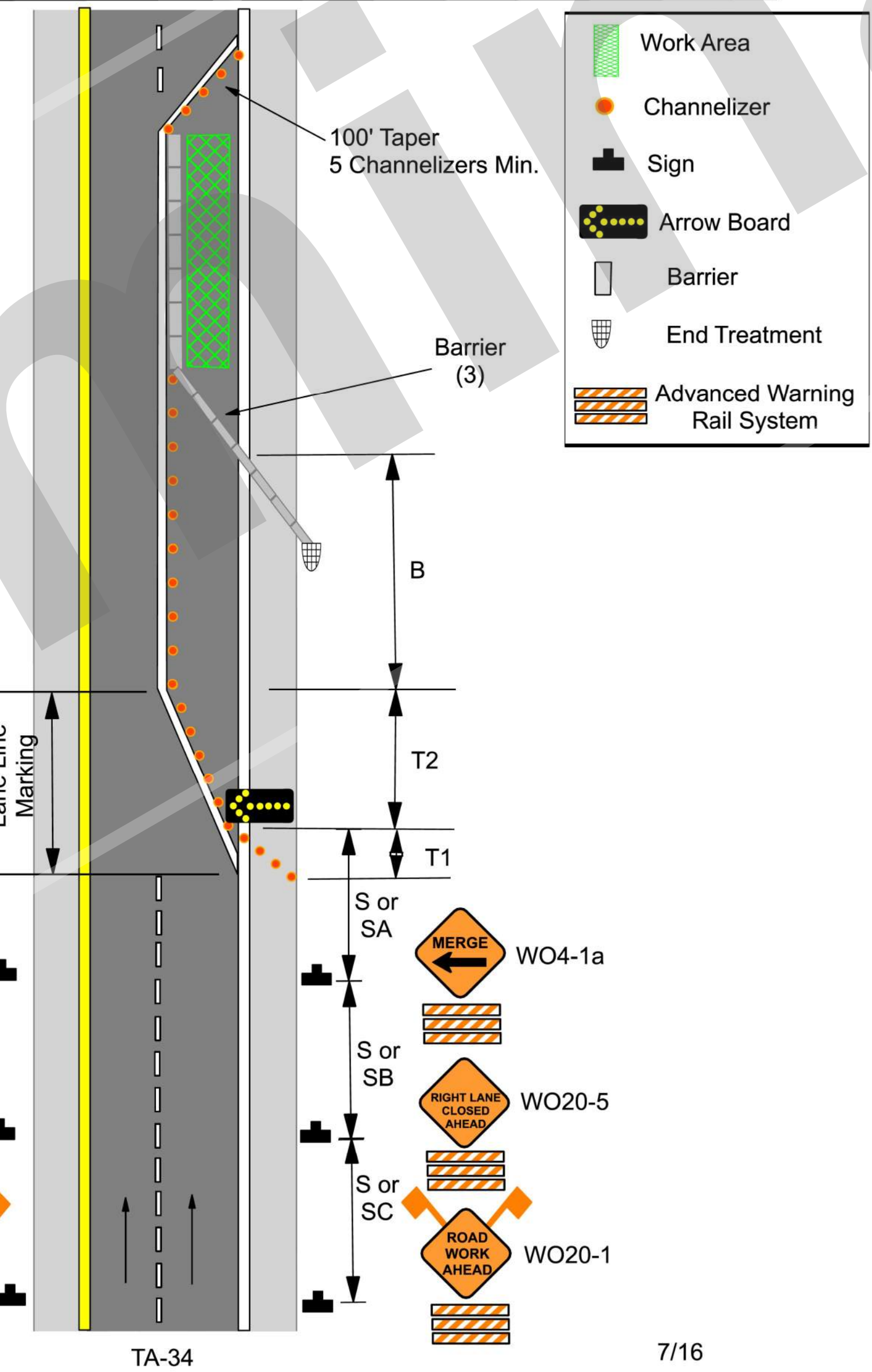
Review EPG 616.8.34a (TA-34a) Lane Closure with Width and Lane Restrictions - DE/CM for a lane closure with width restriction.

For nighttime operations, review EPG 616.6.83 WARNING LIGHTS for use of sequential lights.

If rumble strips are used, review EPG 616.6.87 RUMBLE STRIPS.

For flags and advance warning rail systems, refer to EPG 616.6.2.2 Flags and Advance Warning Rail System.

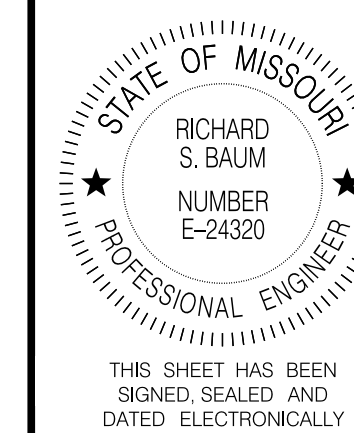
Review EPG 616.6.63 Channelizing Devices for different types and guidelines for the devices.



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ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 279

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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TRAFFIC CONTROL PLAN

TYPICAL APPLICATIONS

SHEET 16 OF 23

13:49 05-AUG-2021

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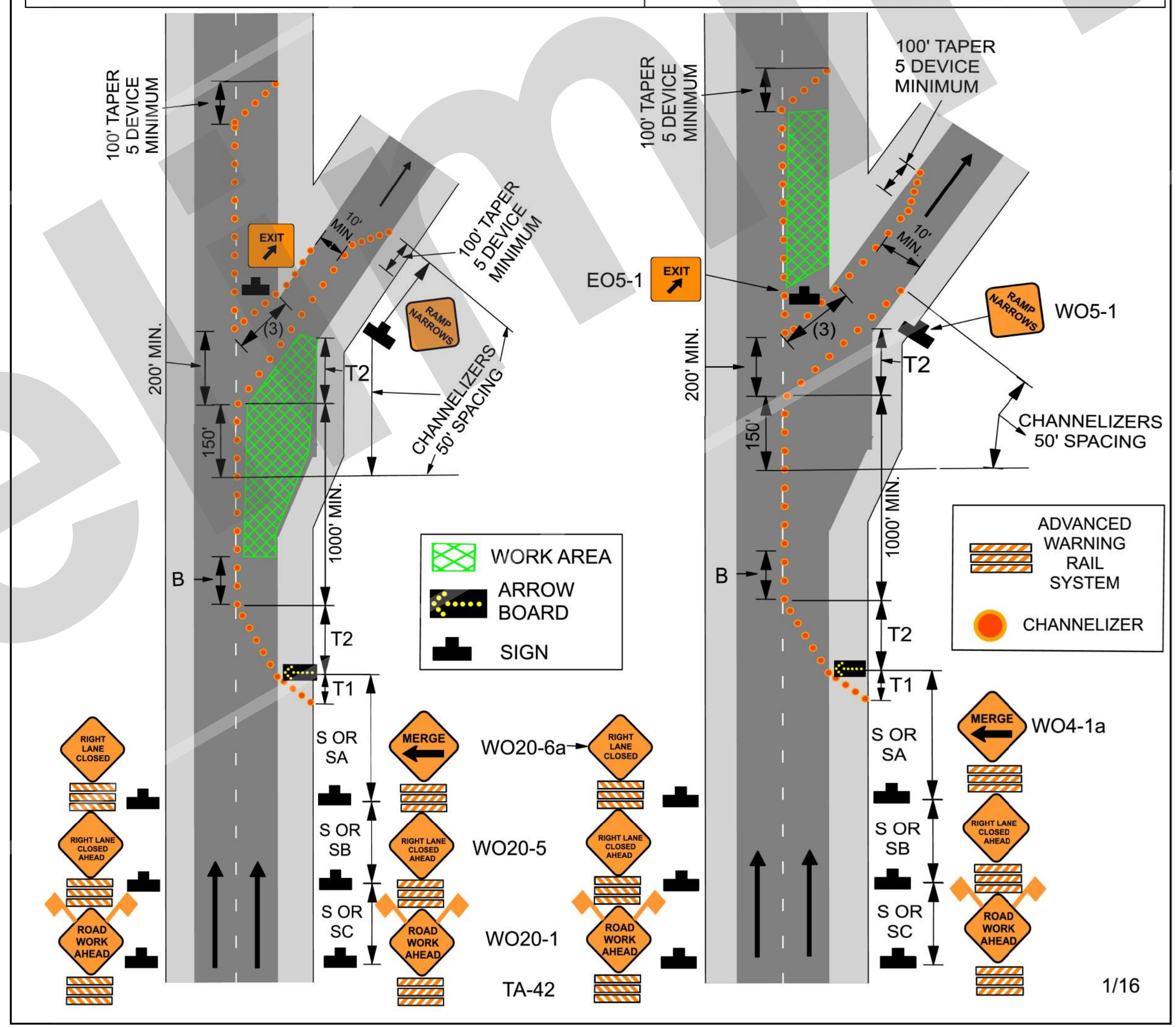
616.8.42 (TA-42) Work in the Vicinity of an Exit Ramp - DE/CM www.invarion.com

SPEED Permanent Posted (mph)	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	Buffer/ Work Areas
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)			
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.
REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.
TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.
RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.
(3) 5 CHANNELIZER DEVICES MINIMUM

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE STRIPS.
FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.
FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

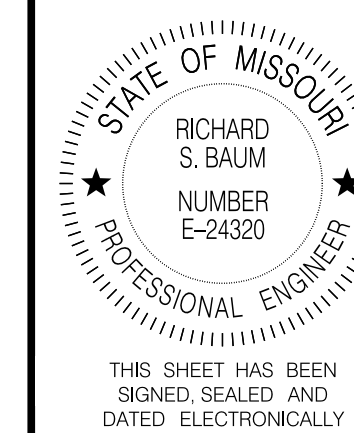


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DATE PREPARED
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ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 281

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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501 NORTH BROADWAY

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616.8.44 (TA-44) Work in the Vicinity of an Entrance Ramp - DE/CM www.invarion.com

SPEED Permanent Posted (mph)	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.)	
	Undivided (S)	Divided (S)	Shoulder (1) (T1)	Lane (2) (T2)		Tapers	Buffer/ Work Areas
0-35	-	200	70	245	280	35	40
40-45	-	500	150	540	400	40	80
50-55	-	1000	185	660	560	50	80
60-70	-	SA - 1000 SB - 1500 SC - 2640	235	840	840	60	120

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2. Lane taper length based on 12 ft. (standard lane width) offset.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR RAMP WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

RAMP NARROWS SIGN IS REQUIRED WHEN RAMP WIDTH IS REDUCED.

YIELD SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC. WHERE INADEQUATE ACCELERATION DISTANCE EXISTS FOR THE TEMPORARY ENTRANCE, THE YIELD SIGN SHALL BE REPLACED WITH STOP SIGNS (ONE ON EACH SIDE OF THE APPROACH).

THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

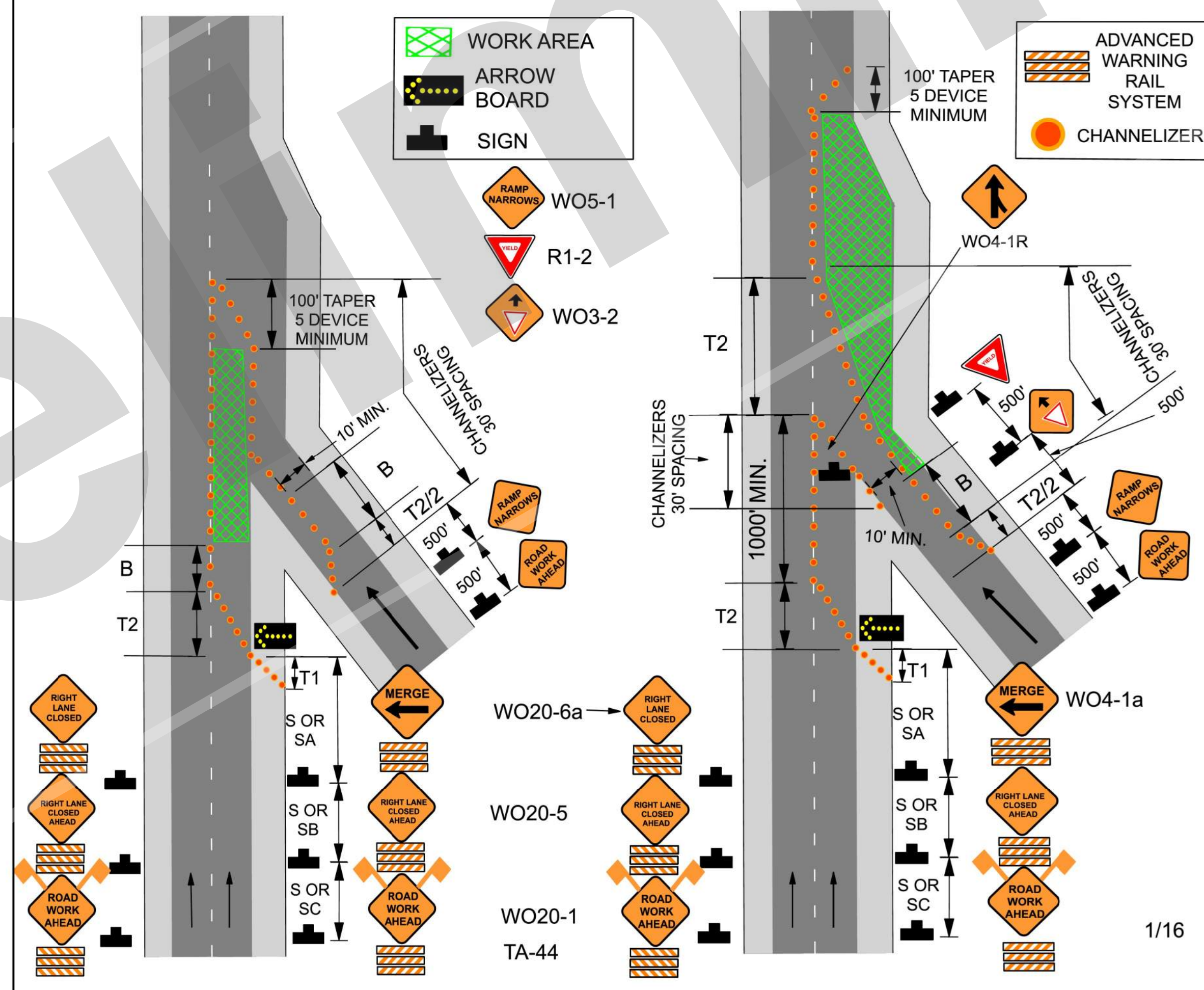
REVIEW EPG 616.6.63 CHANNELIZING DEVICES FOR DIFFERENT TYPES AND GUIDELINES FOR THE DEVICES.

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

IF RUMBLE STRIPS ARE USED, REVIEW EPG 616.6.87 RUMBLE

FOR NIGHTTIME OPERATIONS, REVIEW EPG 616.6.83 WARNING LIGHTS FOR USE OF SEQUENTIAL LIGHTS.

FOR FLAGS AND ADVANCE WARNING RAIL SYSTEM, REFER TO EPG 616.6.2.2 FLAGS AND ADVANCE WARNING RAIL SYSTEM.



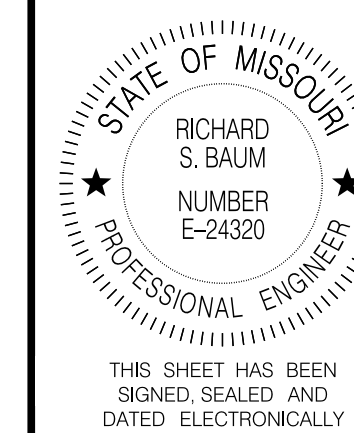
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TRAFFIC CONTROL PLAN
TYPICAL APPLICATIONS
SHEET 18 OF 23



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DATE PREPARED
05-AUG-2021

ROUTE STATE
I-55 MO

DISTRICT SHEET NO.
SL 283

COUNTY
STL COUNTY/CITY

JOB NO.
J613187/J613149

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

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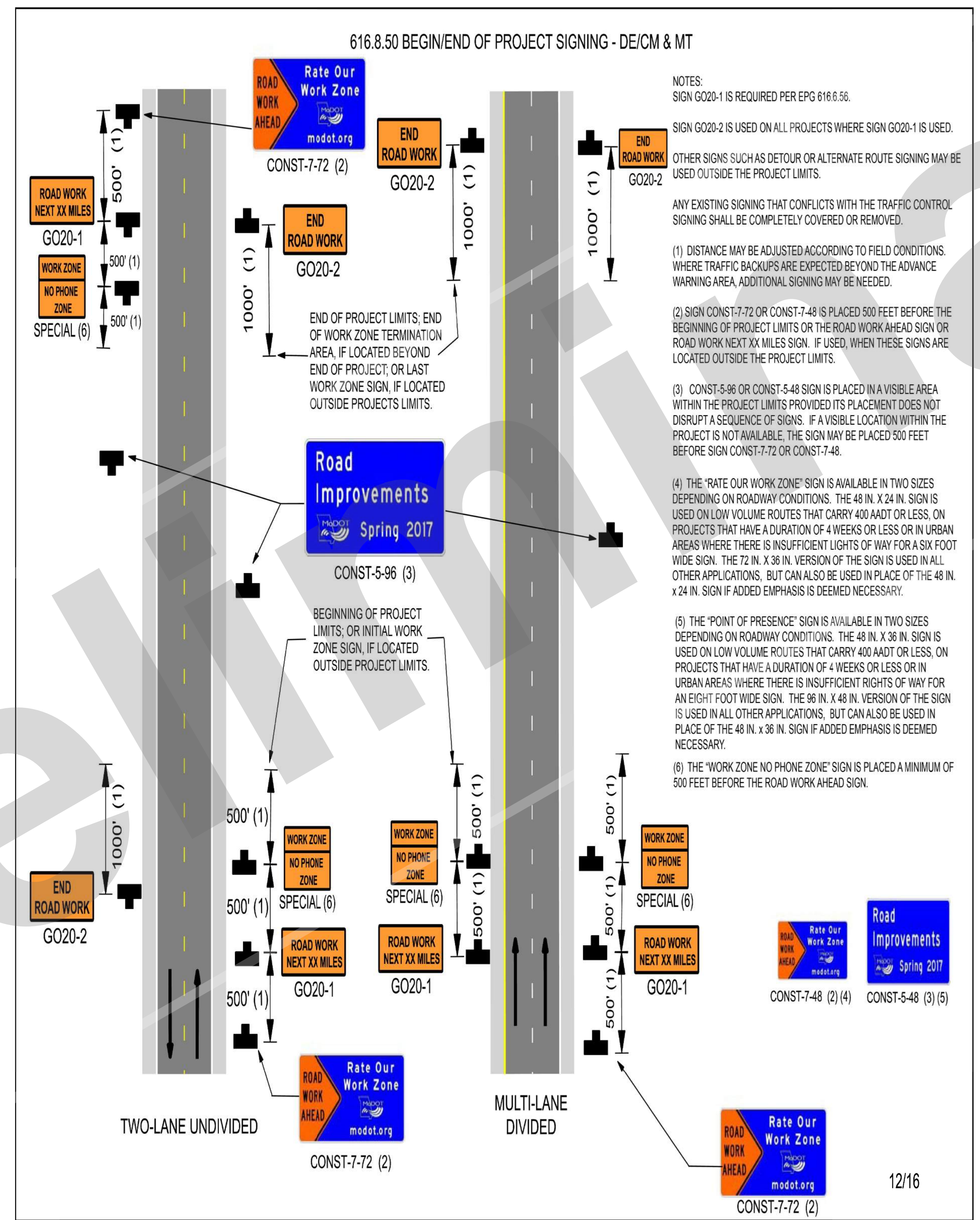
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REV.

616.8.50 BEGIN/END OF PROJECT SIGNING - DE/CM & MT



- NOTES:
SIGN GO20-1 IS REQUIRED PER EPG 616.6.56.
SIGN GO20-2 IS USED ON ALL PROJECTS WHERE SIGN GO20-1 IS USED.
OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.
- ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
- (1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.
- (2) SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN, IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.
- (3) CONST-5-96 OR CONST-5-48 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.
- (4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A SIX FOOT WIDE SIGN. THE 72 IN. X 36 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 24 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
- (5) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 AADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHTS OF WAY FOR AN EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.
- (6) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.

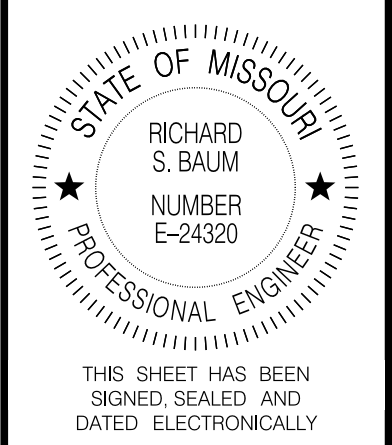
NOT TO SCALE

12/16

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TRAFFIC CONTROL PLAN
TYPICAL APPLICATIONS
SHEET 20 OF 23

DISCLAIMER
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DATE PREPARED
05-AUG-2021
 ROUTE STATE
I-55 MO
 DISTRICT SHEET NO.
SL 287E
 COUNTY
STL COUNTY/CITY
 JOB NO.
J613187/J613149
 CONTRACT ID.

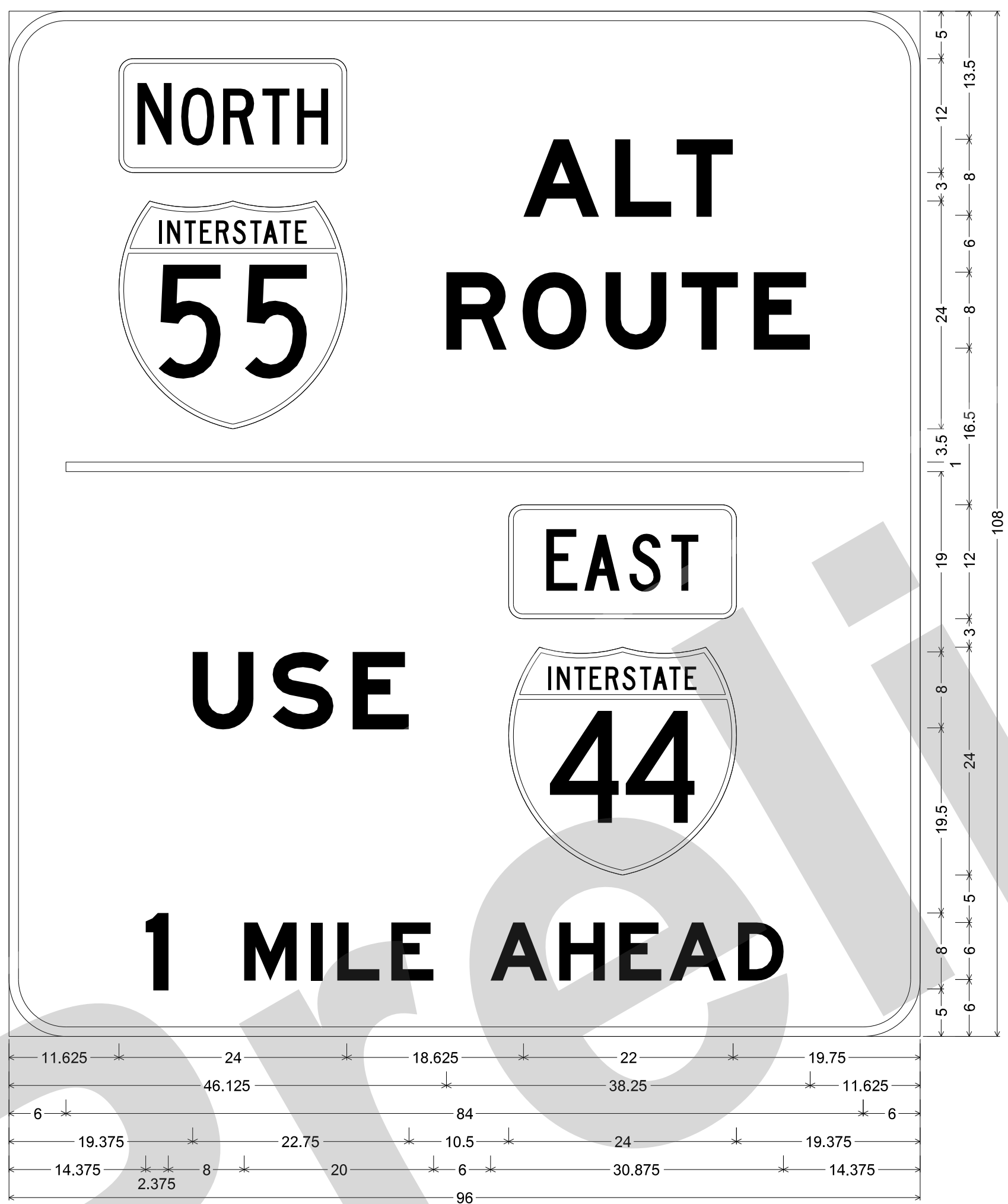
PROJECT NO.
 BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-273-6636)

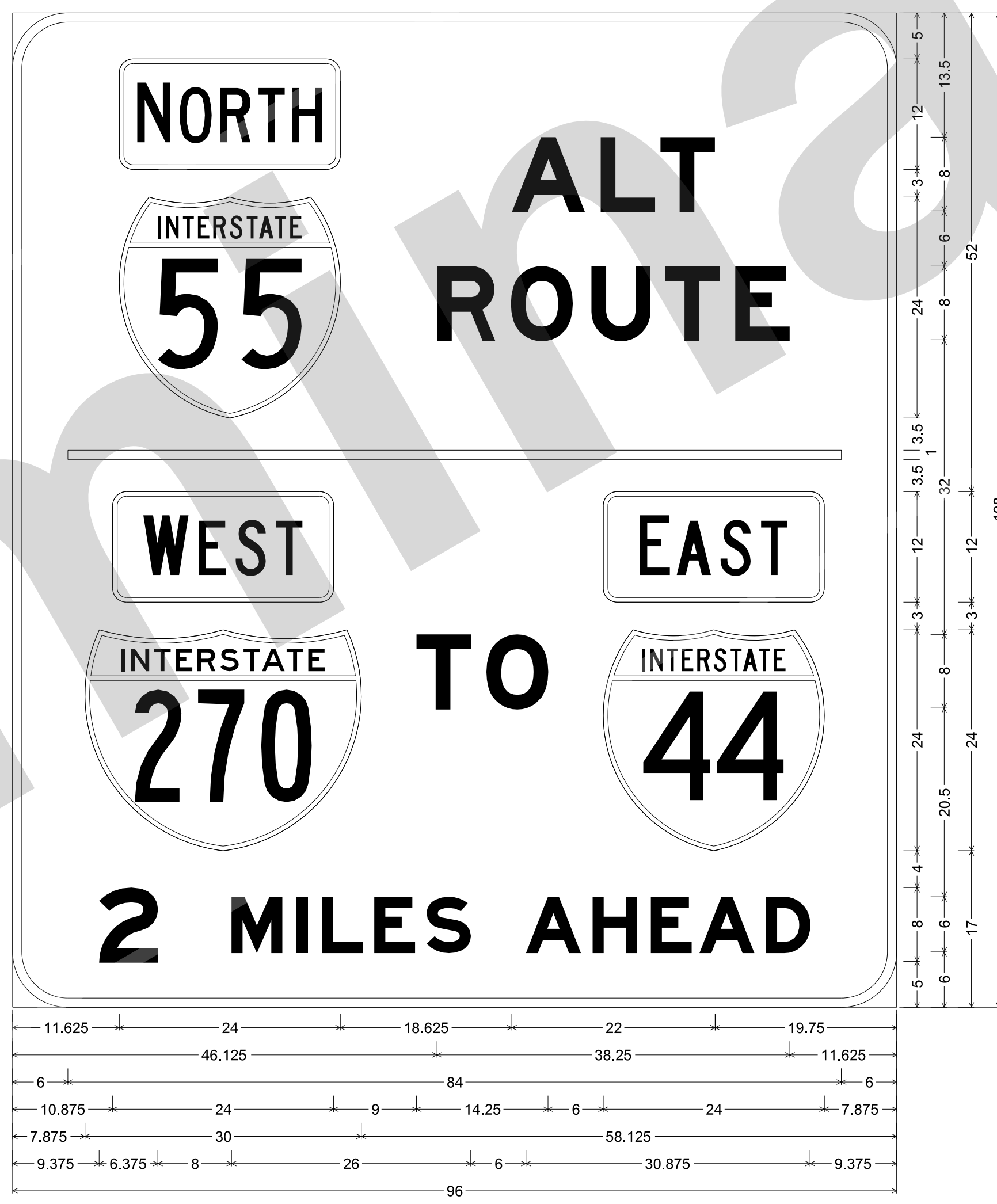
Jacobs
 JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704



SPECIAL SHF-FLAT SHEET FLUORESCENT;
 6,000" Radius, 1,000" Border, Black on, Orange;
 Interstate 55 12,000" C; "ALT", E Mod; "ROUTE", E Mod; "USE", E Mod; Interstate 44 12,000" C; "1", E Mod;
 "MILE AHEAD", E Mod;

Table of letter and object lefts

11.625	A	L	T	70.375							
54.250	54.250	63.875									
11.625	R	O	U	T	E	78.500					
46.125	46.125	54.125	62.875	70.875							
6.000											
19.375	S	E	52.625								
27.750		36.250									
52.625											
14.375	I	M	I	L	E	A	H	E	A	D	76.875
24.750		31.875	34.625	40.250	50.750	58.000	64.250	69.625			



SPECIAL SHF-FLAT SHEET FLUORESCENT;
 6,000" Radius, 1,000" Border, Black on, Orange;
 Interstate 55 12,000" C; "ALT", E Mod; "ROUTE", E Mod; Interstate 270 12,000" B; "TO", E Mod;
 Interstate 44 12,000" C; "2", E Mod; "MILES AHEAD", E Mod;

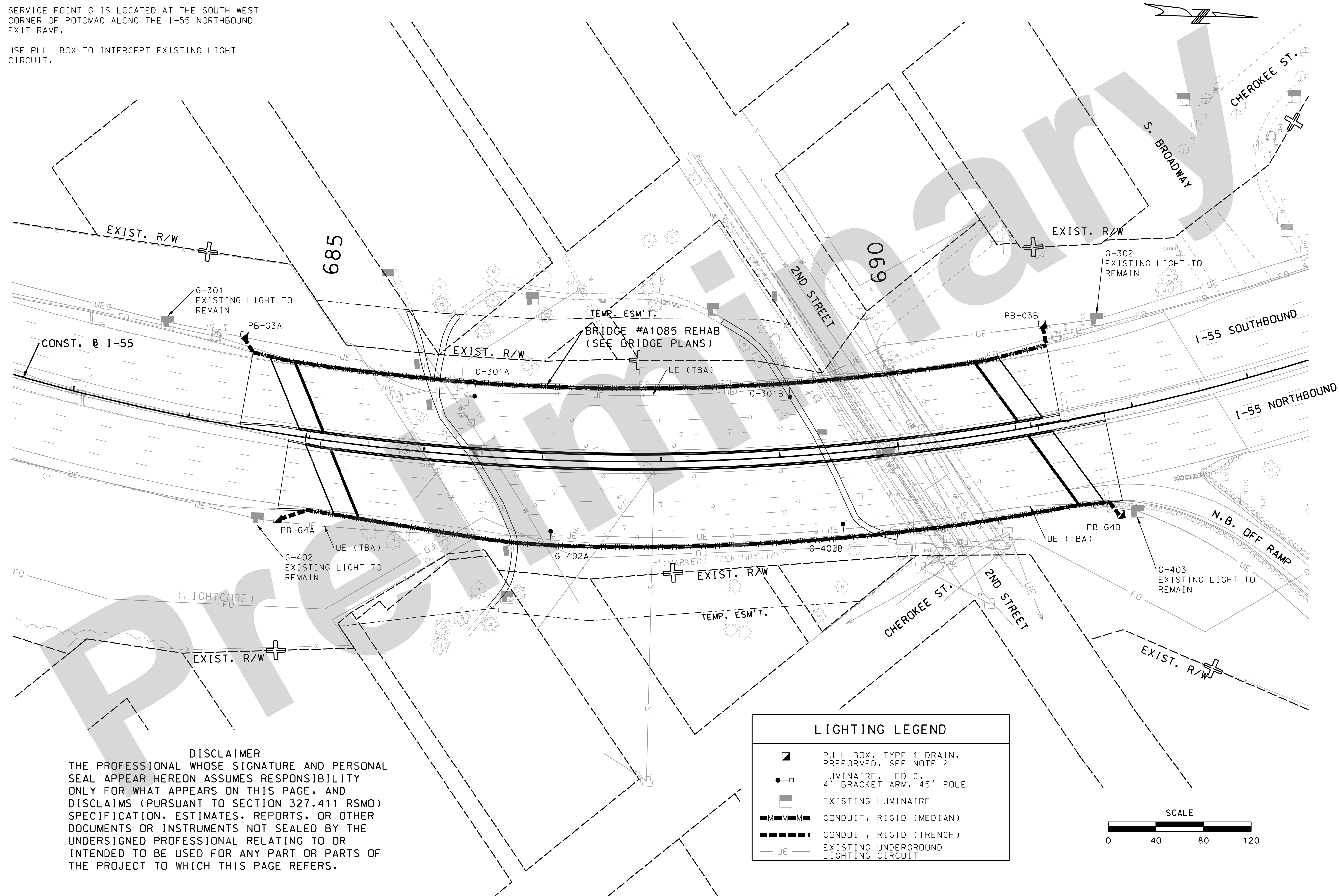
Table of letter and object lefts

11.625	A	L	T	70.375								
54.250	54.250	63.875										
11.625	R	O	U	T	E	78.500						
46.125	46.125	54.125	62.875	70.875								
6.000												
10.875	T	O	51.500	64.125								
43.875												
7.875												
64.125												
9.375	2	M	I	L	E	S	A	H	E	A	D	81.875
23.750		30.875	33.625	39.250	45.000	55.750	63.000	69.250	74.625			

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

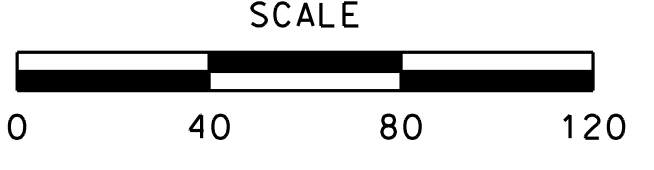
NOTES:

- SERVICE POINT G IS LOCATED AT THE SOUTH WEST CORNER OF POTOMAC ALONG THE I-55 NORTHBOUND EXIT RAMP.
- USE PULL BOX TO INTERCEPT EXISTING LIGHT CIRCUIT.

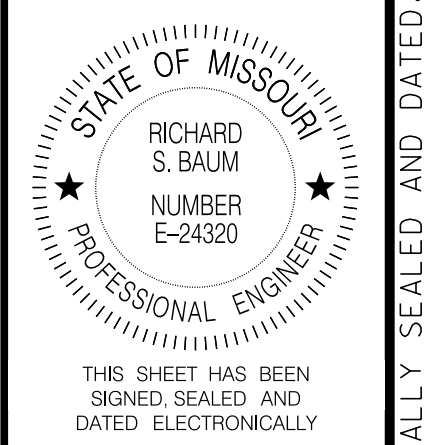


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LIGHTING LEGEND	
	PULL BOX, TYPE 1 DRAIN, PREFORMED, SEE NOTE 2
	LUMINAIRE, LED-C, 4' BRACKET ARM, 45' POLE
	EXISTING LUMINAIRE
	CONDUIT, RIGID (MEDIAN)
	CONDUIT, RIGID (TRENCH)
	EXISTING UNDERGROUND LIGHTING CIRCUIT



LIGHTING PLAN SHEET
 STA 682+48 TO STA 693+53
 SHEET 1 OF 1



DATE PREPARED 05-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT SL	SHEET NO. 287F
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
 501 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 PHONE: (314) 335-4000
 CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

LIGHTING POLES AND BRACKET CABLE																		
SHEET NO.	LUMIN. NO.	STA.	OFFSET		LOCATION	LIGHTING POLE			LUMINAIRE			ARM			FOUNDATIONS	LUMIN. CABLE	CIRCUIT	NOTES
						30'	45'	LED-A	LED-B	LED-C	4'	6'	8'	BRIDGE MOUNTED				
287F	G-301A	686+39	62'	LT.	I-55 SB		1			1				1	162	G3		
287F	G-301B	689+12	62'	LT.	I-55 SB		1			1				1	162	G3		
287F	G-402A	687+09	72'	RT.	I-55 NB		1			1				1	162	G4		
287F	G-402B	689+48	72'	RT.	I-55 NB		1			1				1	162	G4		
TOTAL						-	4	-	-	4	4	-	-	-	648			

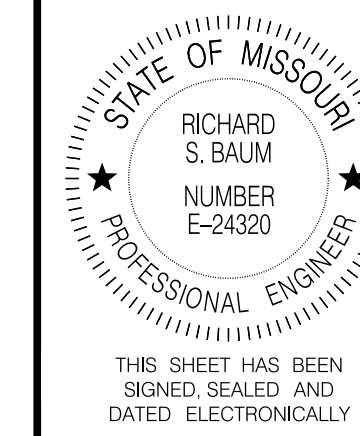
PULL BOXES													
SHEET NO.	STA.	OFFSET		LOCATION	P.B. NO	PREFORMED			CONCRETE	DRAIN		CIRCUIT	NOTES
						CLASS 1	CLASS 2	CLASS 3		TYPE I	TYPE II		
287F	684+34	76'	LT.	I-55 SB	PB-G3A	1				1		G3	
287F	691+38	83'	LT.	I-55 SB	PB-G3B	1				1		G3	
287F	684+87	71'	RT.	I-55 NB	PB-G4A	1				1		G4	
287F	691+72	87'	RT.	I-55 NB	PB-G4B	1				1		G4	
TOTAL						4	-	-	-	-	-		

TRENCHING, CONDUIT, AND CABLE													
SHEET NO.	FROM	TO	CIRCUIT	TRENCH	CONDUIT, 3" IN TRENCH	CONDUIT, 3" IN MEDIAN *	CONDUIT, 4" PUSHED	CABLE - CONDUIT, 1" 3/C #8	CABLES				NOTES
									TYPE I	#6	#2	#6G	
287F	PB-G3A	G-301A	G3	15	15	189			440		220		
287F	G-301A	G-301B	G3			264			550		280		
287F	G-301B	PB-G3B	G3	16	16	219			510		260		
287F	PB-G4A	G-402A	G3	23	23	209			500		250		
287F	G-402A	G-402B	G3			248			520		260		
287F	G-402B	PB-G4B	G3	14	14	225			510		260		
TOTAL				68	68	-	-	-	3030	-	1530	-	

*NOTE: CONDUIT, 3 IN. MEDIAN, INCLUDED IN BRIDGE QUANTITIES

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DATE PREPARED

05-AUG-2021

ROUTE

I-55

STATE

MO

DISTRICT

SL

SHEET NO.

287G

COUNTY

ST. LOUIS CITY

JOB NO.

J613149

CONTRACT ID.

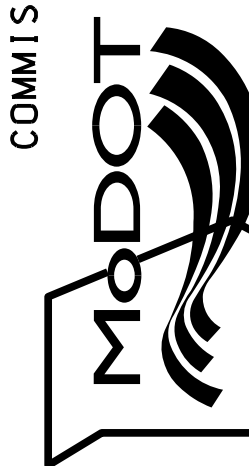
PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

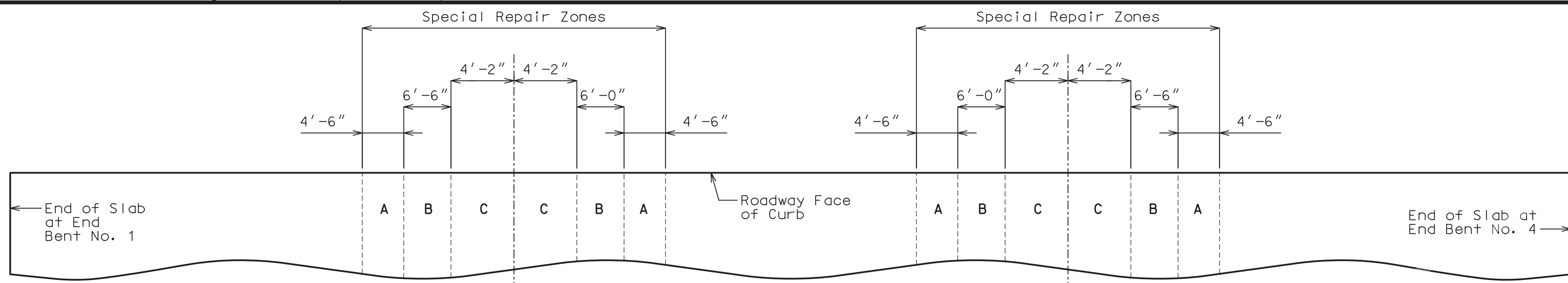


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

Jacobs

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY #00704

LIGHTING QUANTITIES
SHEET 1 OF 1



PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
 - a. Removal of existing deck repair
 - b. Half-sole repair
 - c. Deck repair with void tube replacement
 - d. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
 - a. Deck repair with void tube replacement
 - b. Full depth repair
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

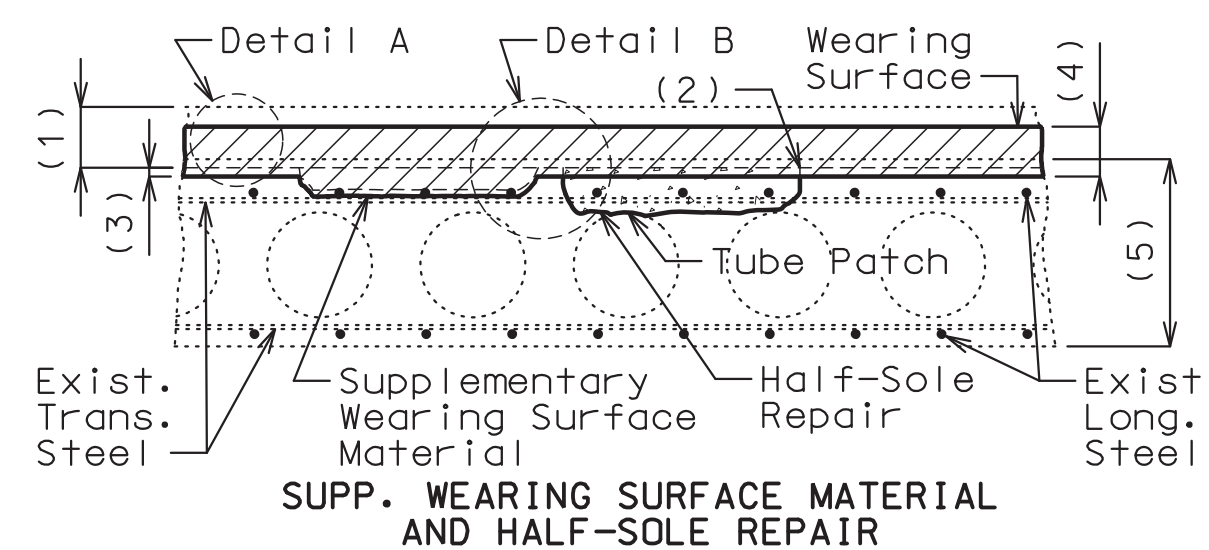
If any single repair area does not exceed 4 square feet in size and the total repair area within a special repair zone does not exceed 12 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Void Repair:

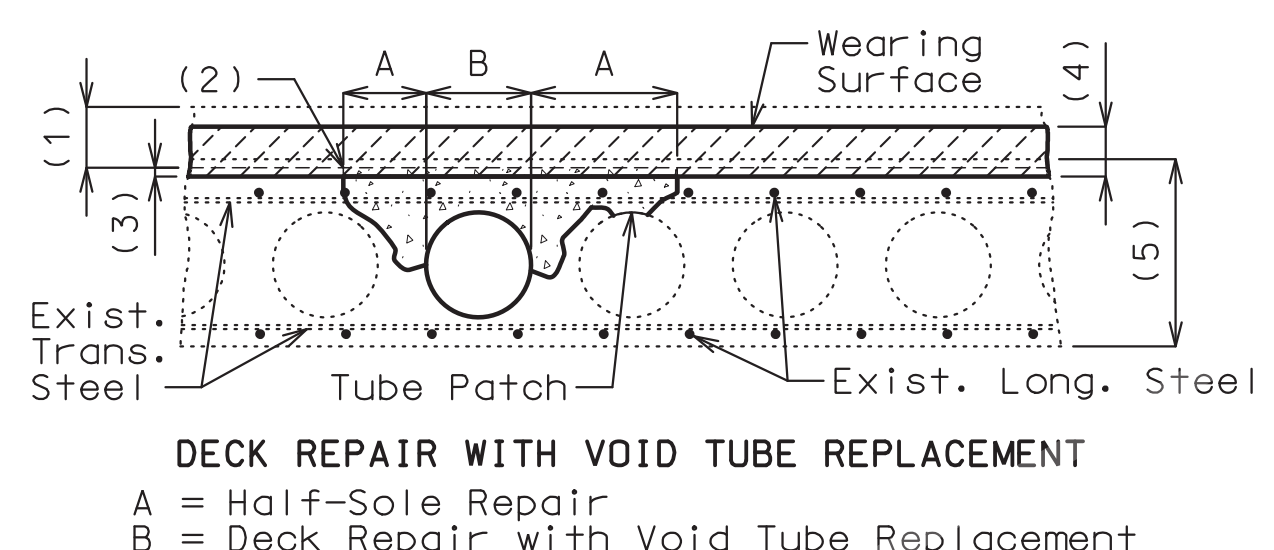
Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as required by the engineer at the contractor's expense.

An exposed void in the deck shall be patched as approved by the engineer in a manner that shall maintain the void area completely free of concrete. Cost of patching an exposed void will be considered completely covered by the contract unit price for Half-Sole Repair inside special repair zones and Monolithic Deck Repair outside special repair zones.

When a deteriorated portion of the void tube is beyond the point of patching as determined by the engineer, the portion of the deteriorated void tube shall be replaced. The void area shall be maintained completely free of concrete. Cutting of the longitudinal reinforcing steel will not be permitted. The fiber tubes for producing the voids shall have an outside diameter with the wall thickness the same as the existing tubes and anchored at not more than the original spacing. Cost of replacing the void tube will be considered completely covered by the contract unit price for Deck Repair with Void Tube Replacement. Measurement will be horizontal projection of the area of exposed tube in plan.

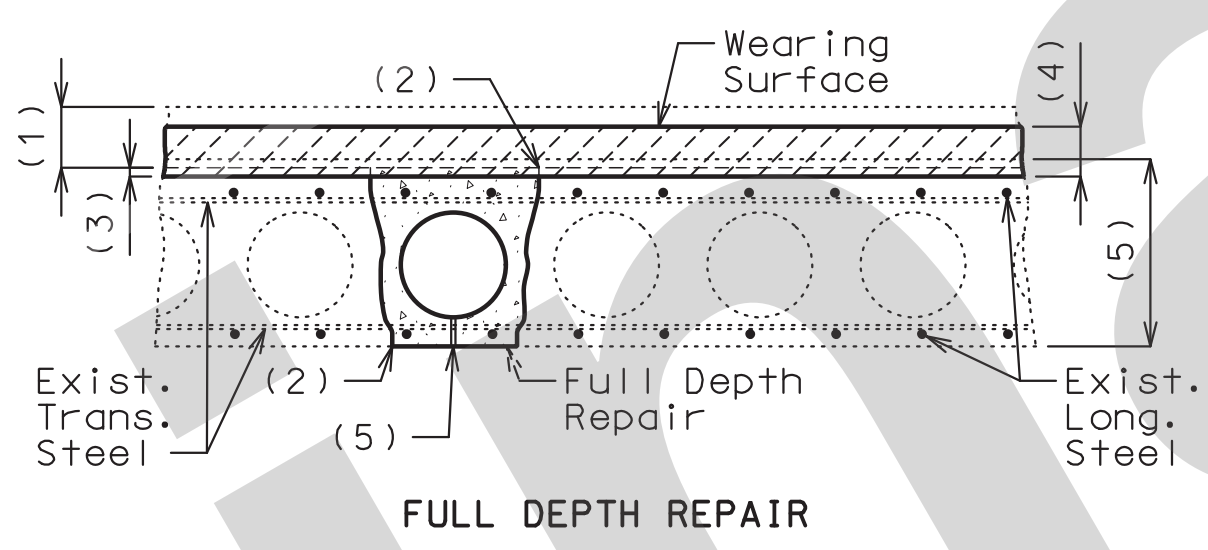


SUPP. WEARING SURFACE MATERIAL AND HALF-SOLE REPAIR



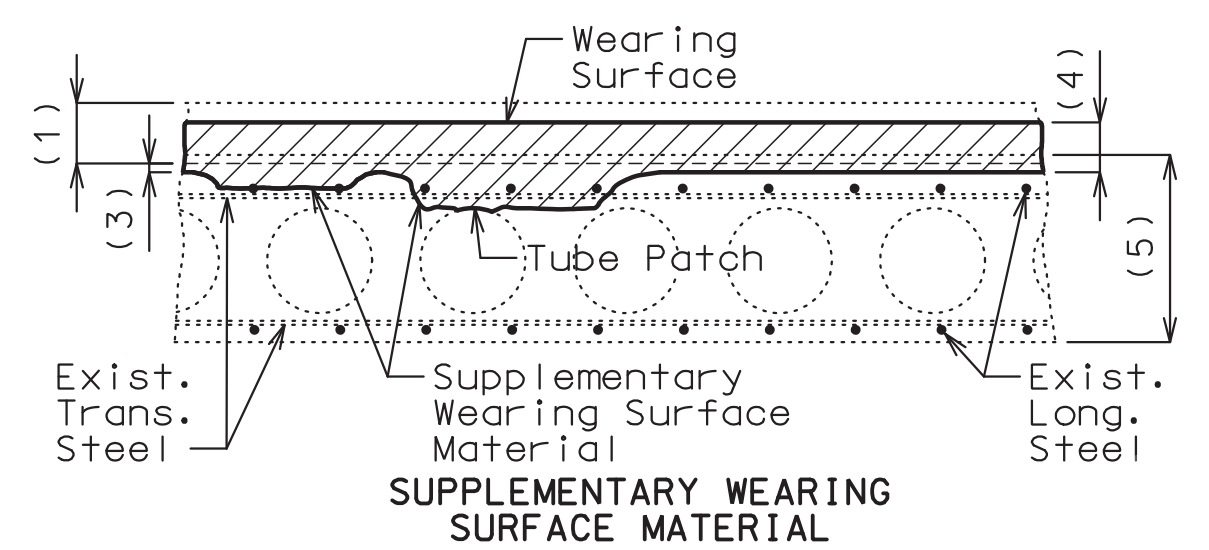
DECK REPAIR WITH VOID TUBE REPLACEMENT

A = Half-Sole Repair
B = Deck Repair with Void Tube Replacement

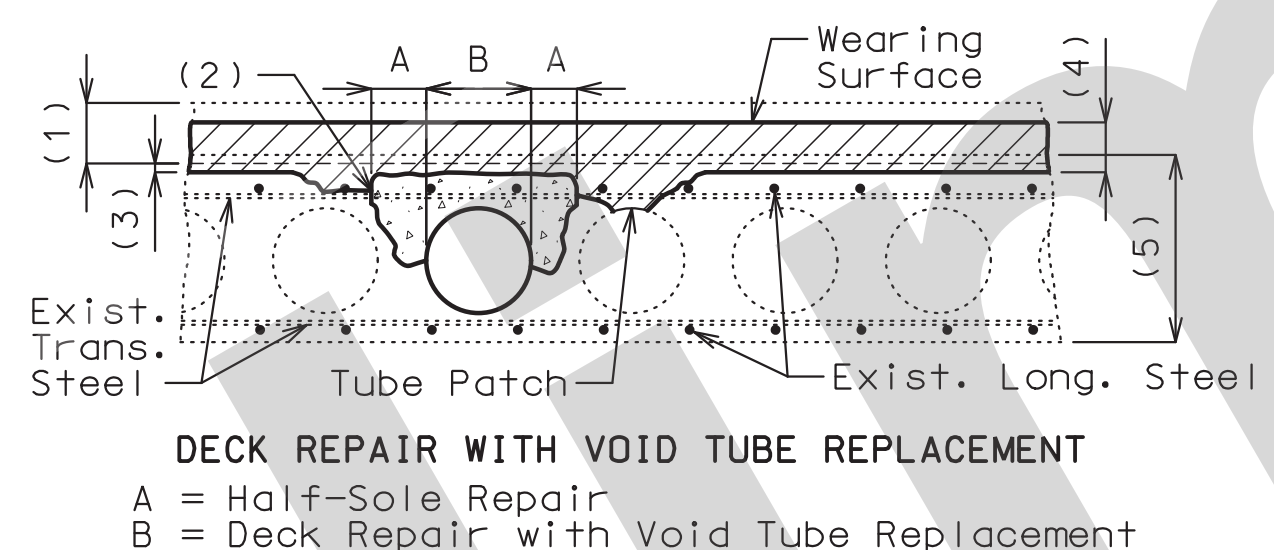


FULL DEPTH REPAIR

DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)

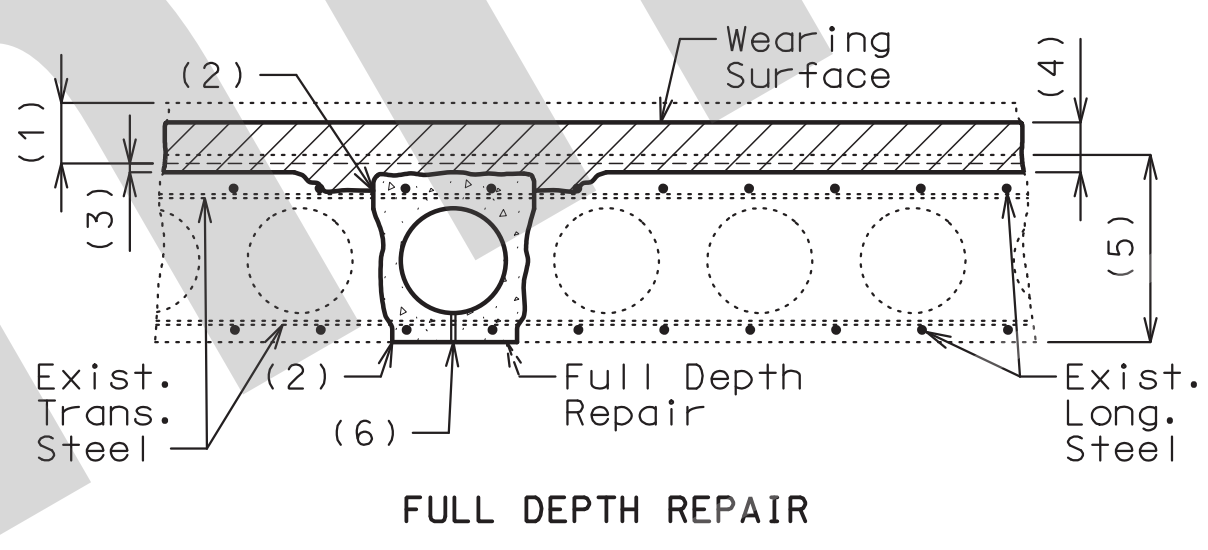


SUPPLEMENTARY WEARING SURFACE MATERIAL



DECK REPAIR WITH VOID TUBE REPLACEMENT

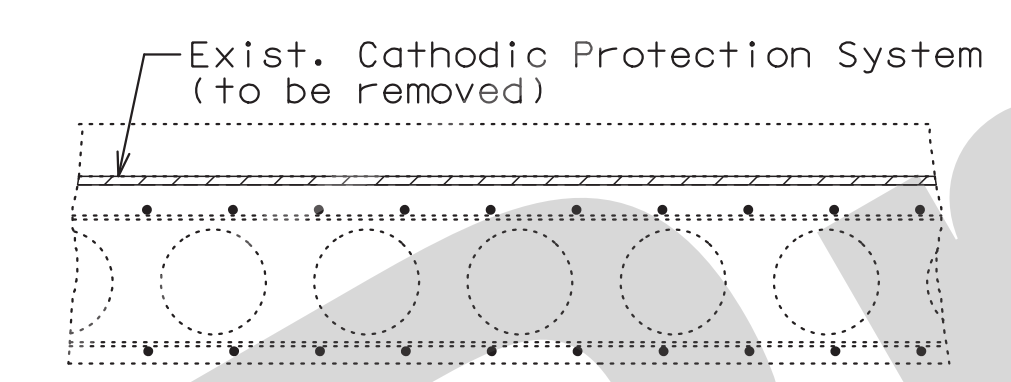
A = Half-Sole Repair
B = Deck Repair with Void Tube Replacement



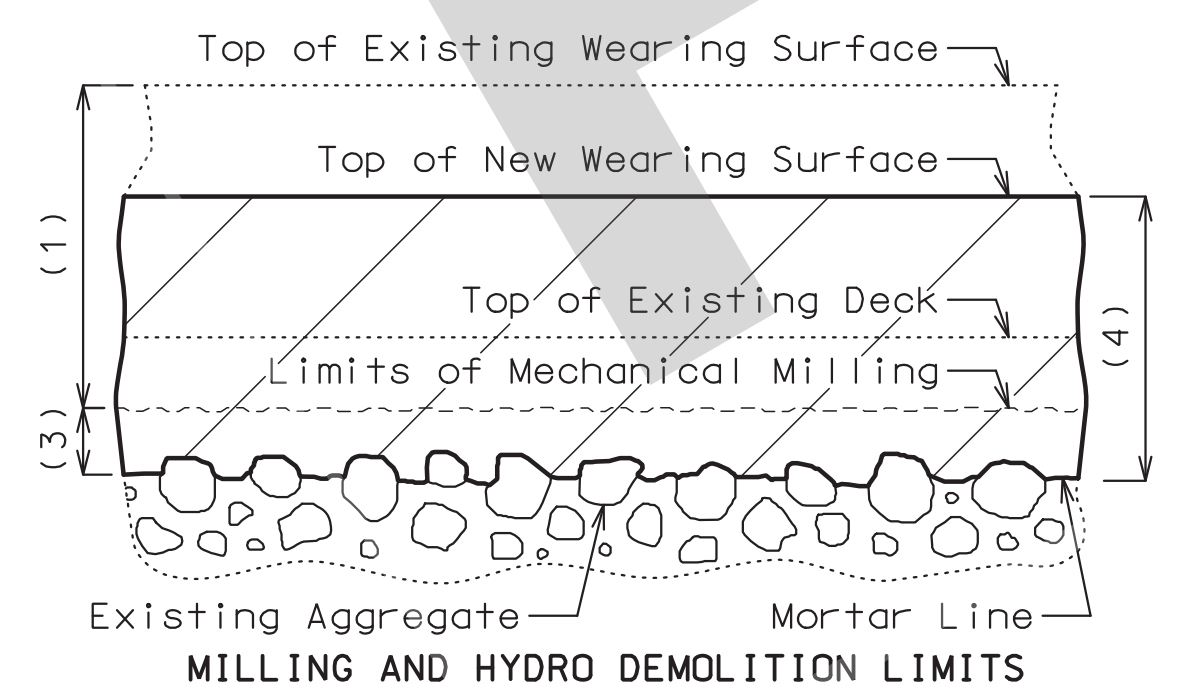
FULL DEPTH REPAIR

DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)

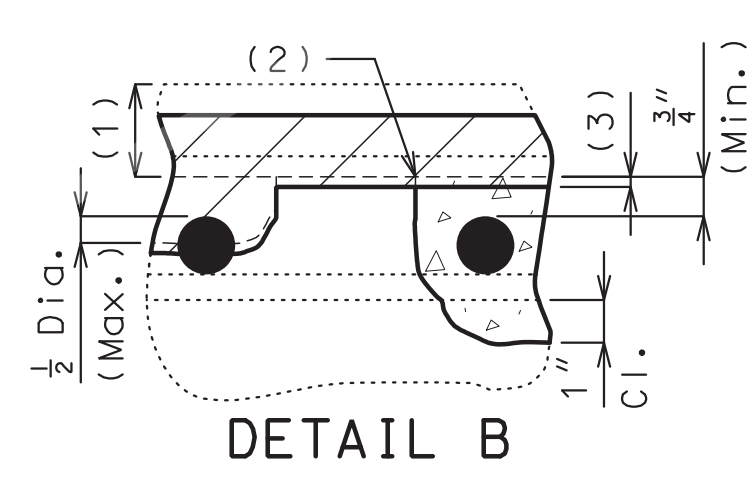
- (1) Removal of existing 1 3/4" ± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
 - 1/4" minimum inside special repair zones
 - 1/2" minimum outside special repair zones
- (4) Modified Latex concrete wearing surface:
 - 1 3/4" minimum inside special repair zones
 - 2" minimum outside special repair zones
- (5) Original depth minus previous scarification
- (6) Restore existing weep hole, if encountered.



DETAIL SHOWING REMOVAL OF CATHODIC PROTECTION SYSTEM



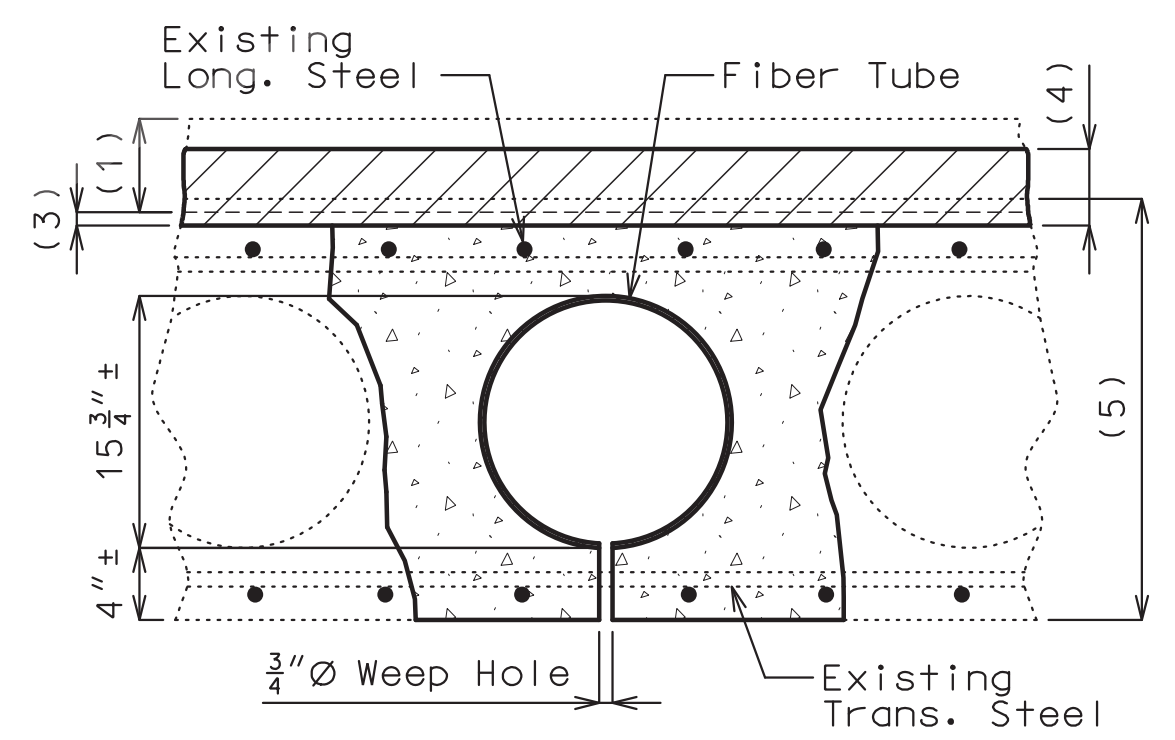
DETAIL A



DETAIL B

Supplementary Wearing Surface Material shall be used when only half the diameter or less of the top bar is exposed.

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.

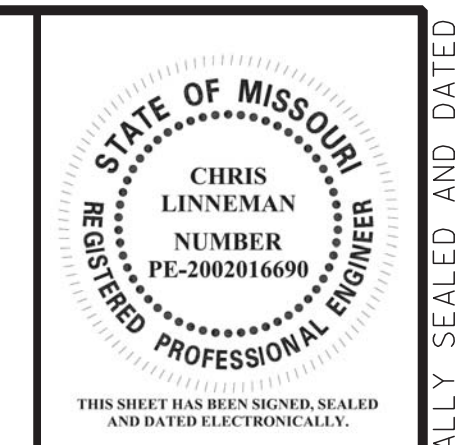


FIBER VOID TUBE REPLACEMENT

Fiber tubes for producing voids shall have an approximate outside diameter of 15 3/4 inches and a wall thickness of 1/4 inch and shall be anchored to joists carrying the floor form at not more than 4-foot centers.

One 3/4" Ø weep hole shall be provided at 2 inches from each end of each new void.

DECK REPAIR DETAILS



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10792	

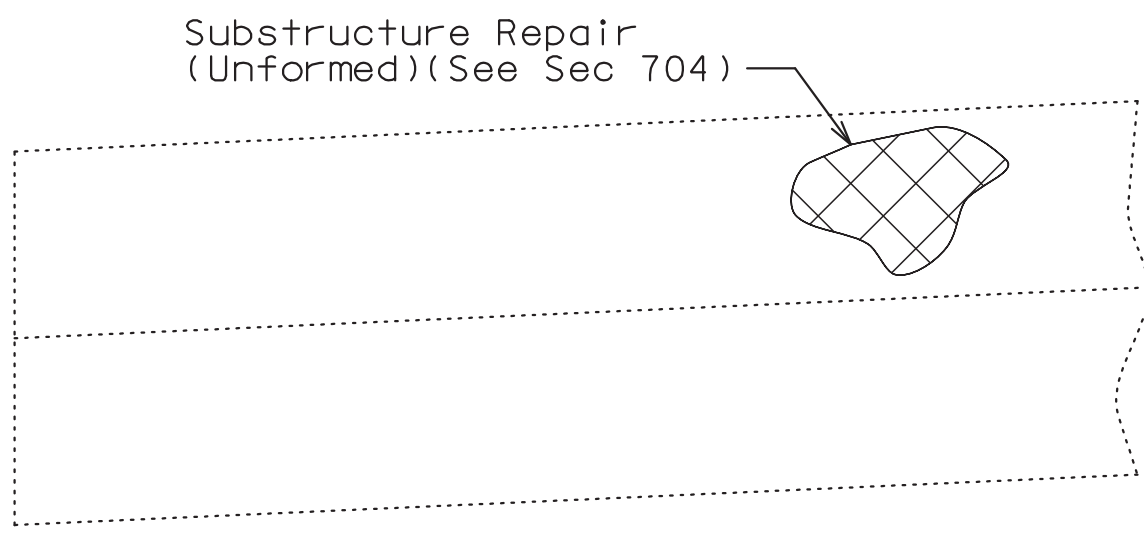
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

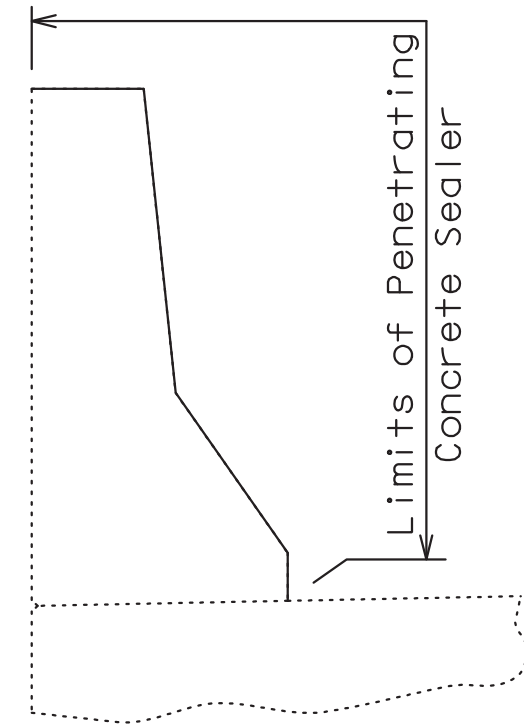
EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

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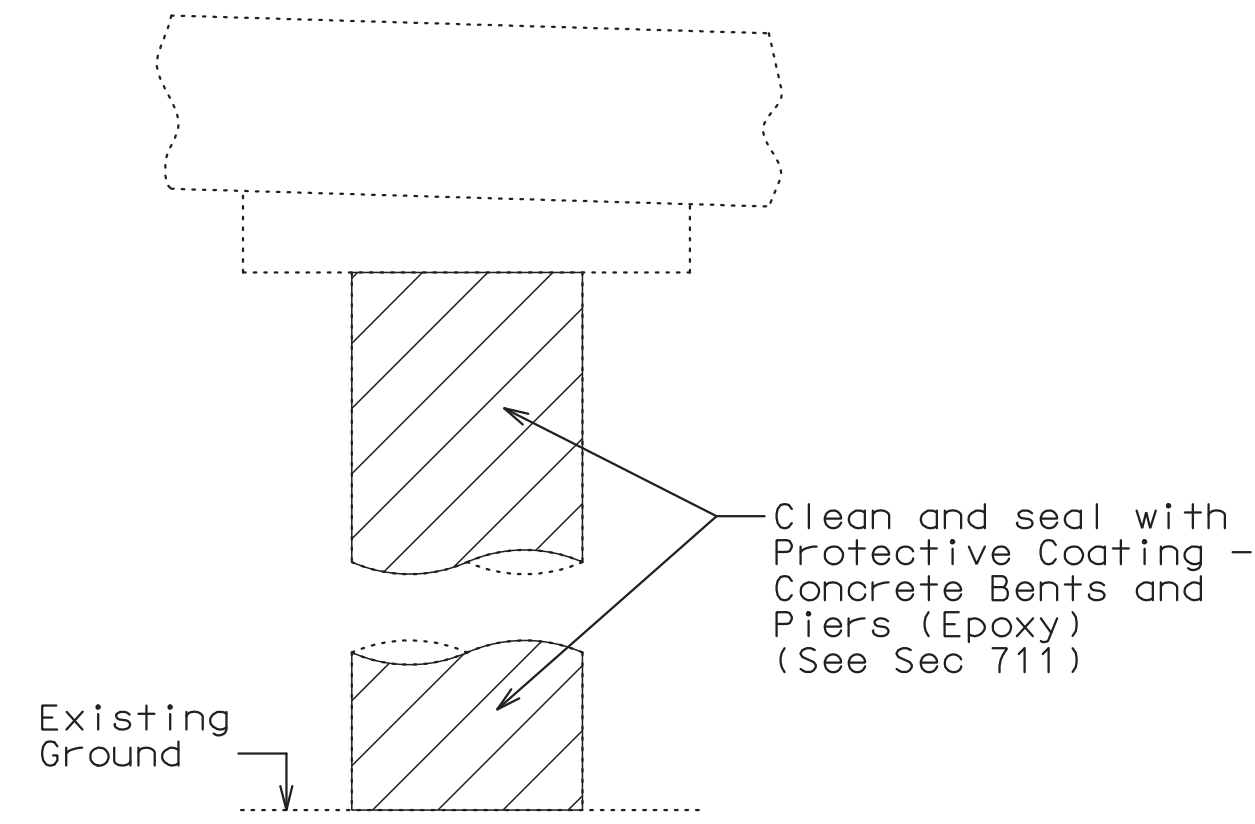
PART ELEVATION

DETAIL SHOWING SUBSTRUCTURE REPAIR
AT END BENTS NO. 1 & 4



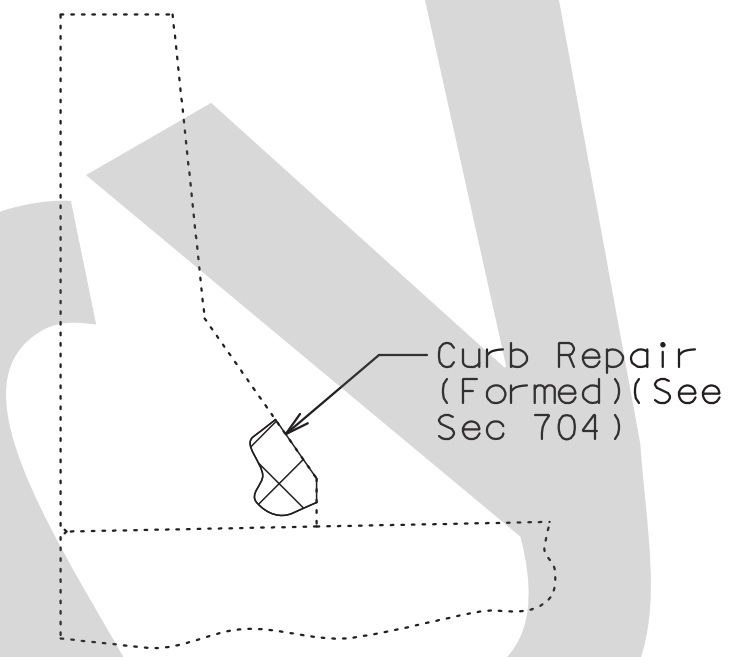
DETAIL SHOWING PENETRATING
CONCRETE SEALER

(Full length of all barrier curbs)

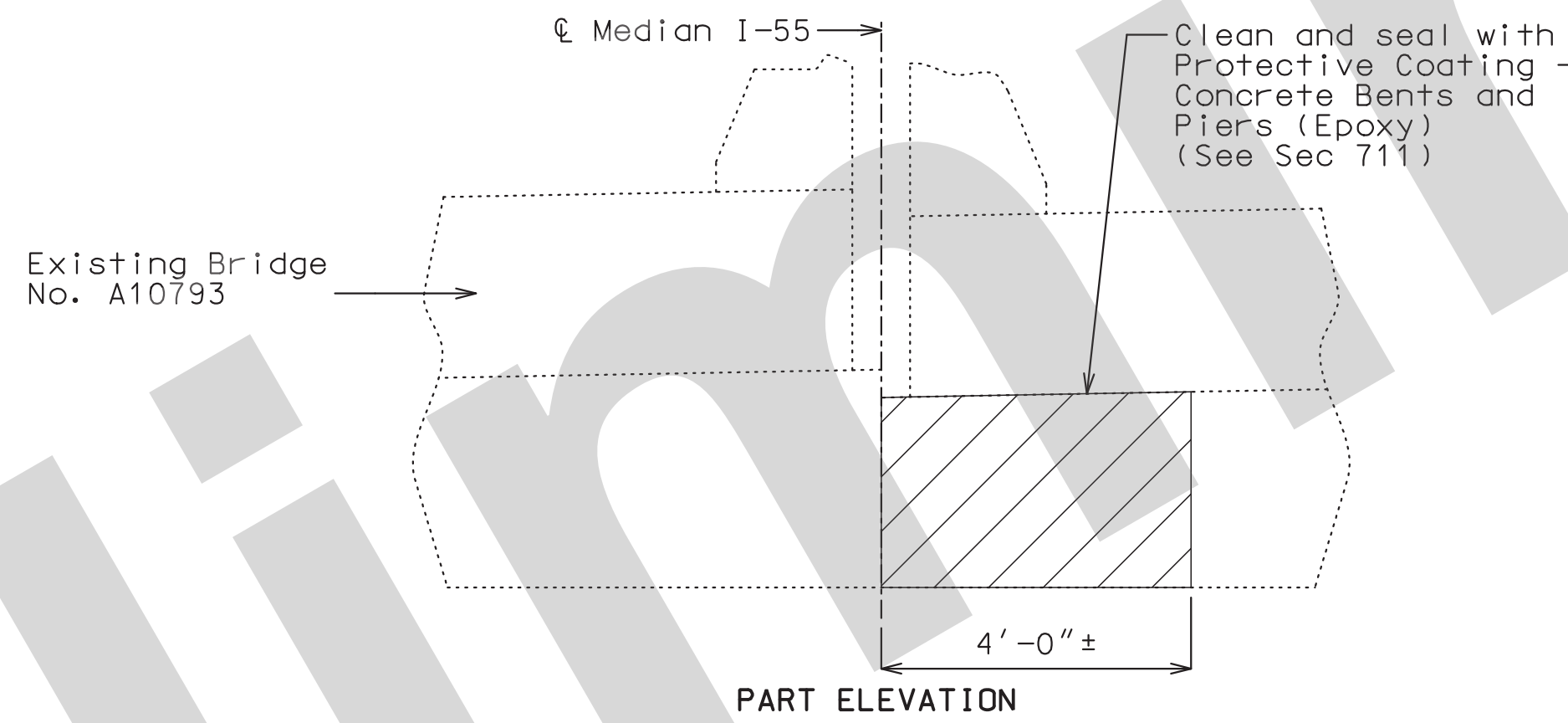


TYPICAL SECTION THRU INT. BENTS
SHOWING PROTECTIVE COATING

(Applies to Int. Bents No. 2 & 3)



DETAIL SHOWING CURB REPAIR



DETAIL SHOWING PROTECTIVE COATING
AT END BENTS NO. 1 & 4

Preliminary



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10792	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr., Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

REPAIR DETAILS

Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 7

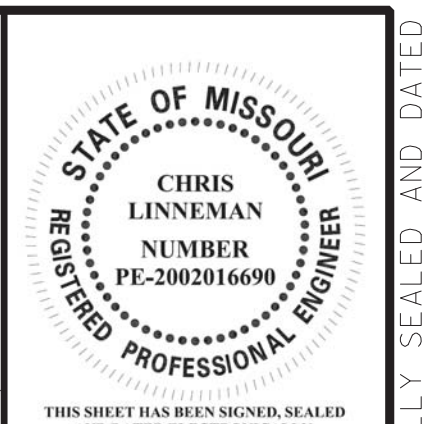
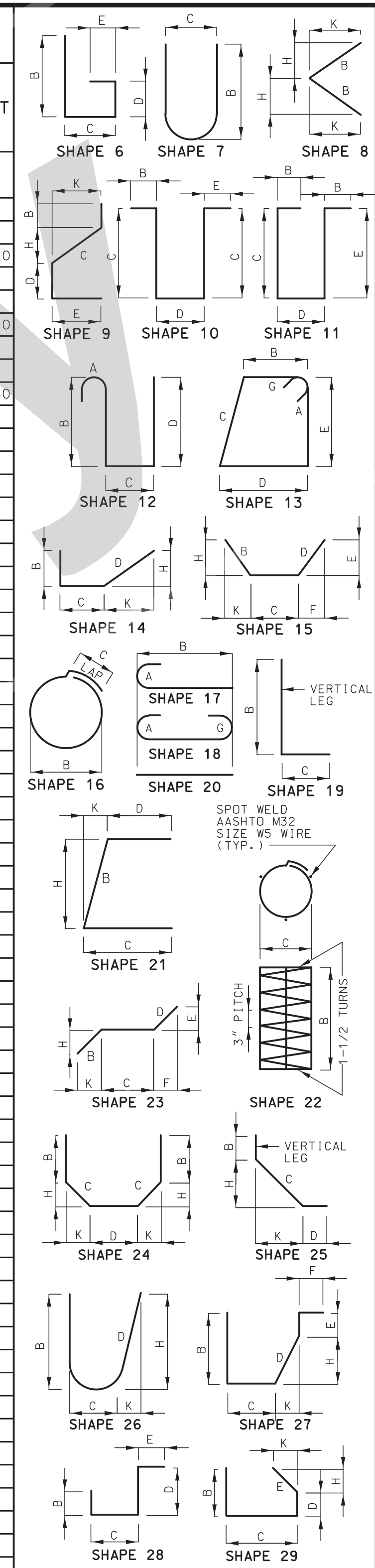
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B		C		D		E		F		H		K				
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
124	5 H1	Appr. Notch	E 19						2	4.000	0	15.000							3	7	3	5	442		
12	5 H2	Appr. Notch	E 20						35	0.000									35	0	35	0	438		
		MEDIAN																							
16	5 M9	Median	E 20						19	9.000									19	9	19	9	330		
84	5 M10	Median	E 14								3.500	2	6.000			2	5.000	2.000	2	10	2	8	234		

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B		C		D		E		F		H		K				
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
		TOTALS																							1440
		REINFORCING STEEL (EPOXY COATED)																							880
		MEDIAN																							560



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS CITY
JOB NO. J6I3149
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10792

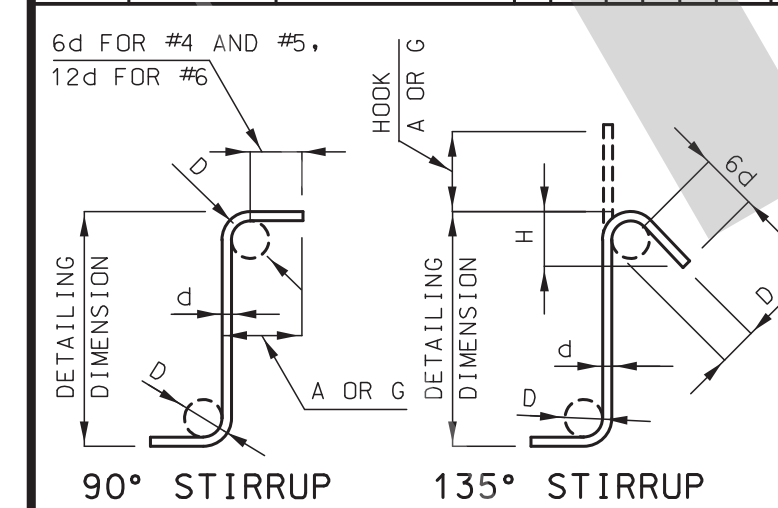
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

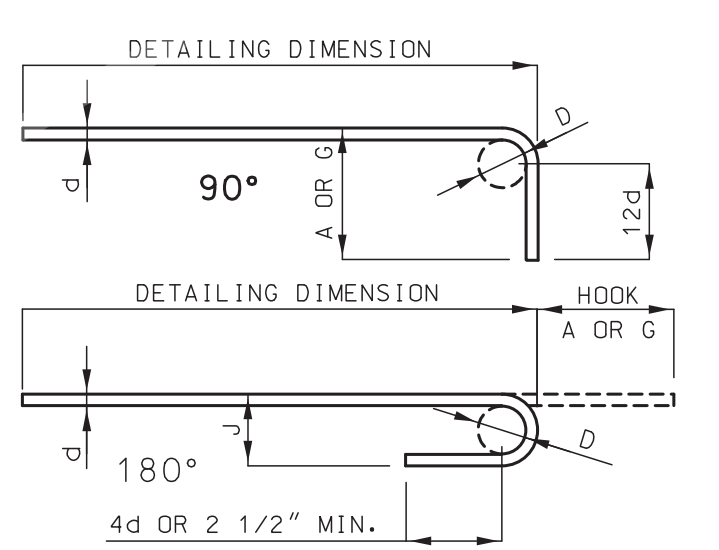
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578



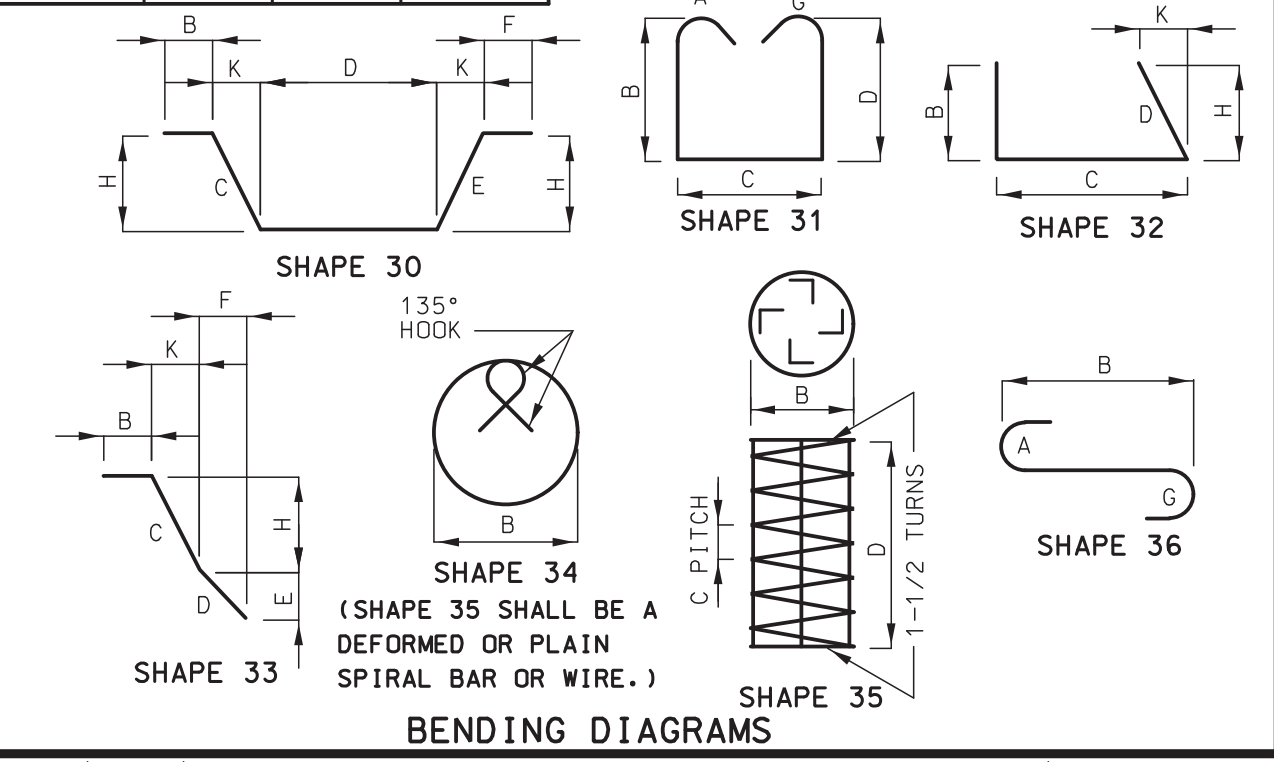
BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	J
#3	2 1/4"	5"	3"	6"	6"
#4	3"	6"	4"	8"	8"
#5	3 3/4"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	12"	12"
#7	5 1/4"	10"	7"	14"	14"
#8	6"	11"	8"	16"	16"
#9	9 1/2"	15"	11 3/4"	19"	19"
#10	10 3/4"	17"	13 1/4"	22"	22"
#11	12"	19"	14 3/4"	2'-0"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	2'-7"

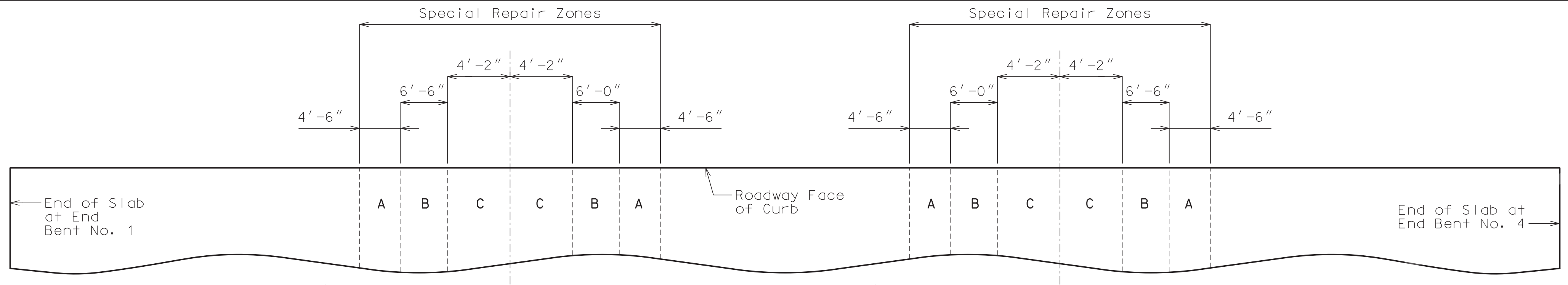
NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.



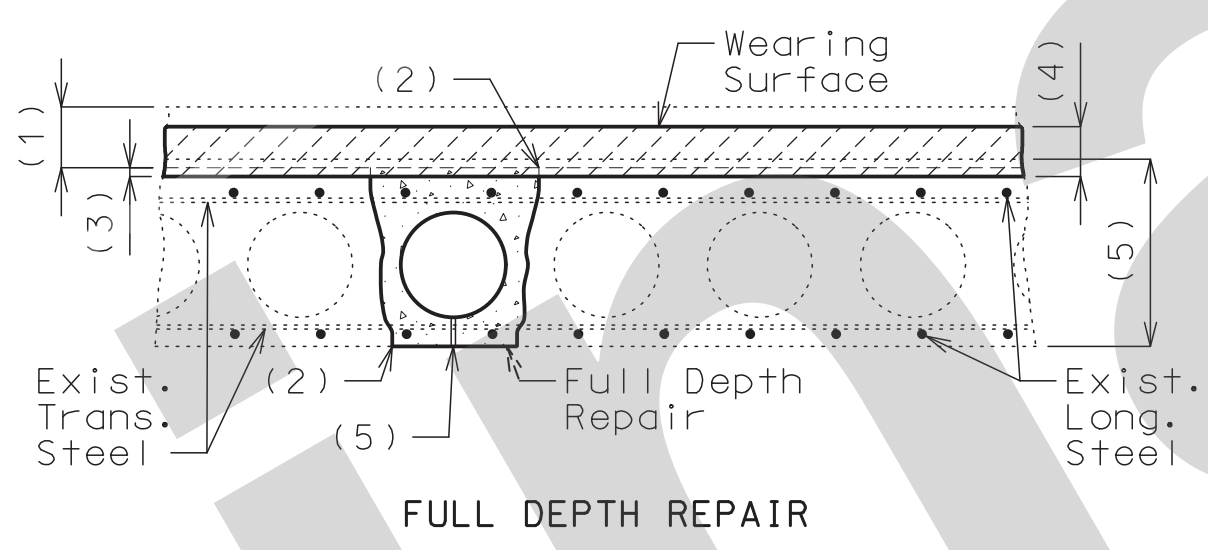
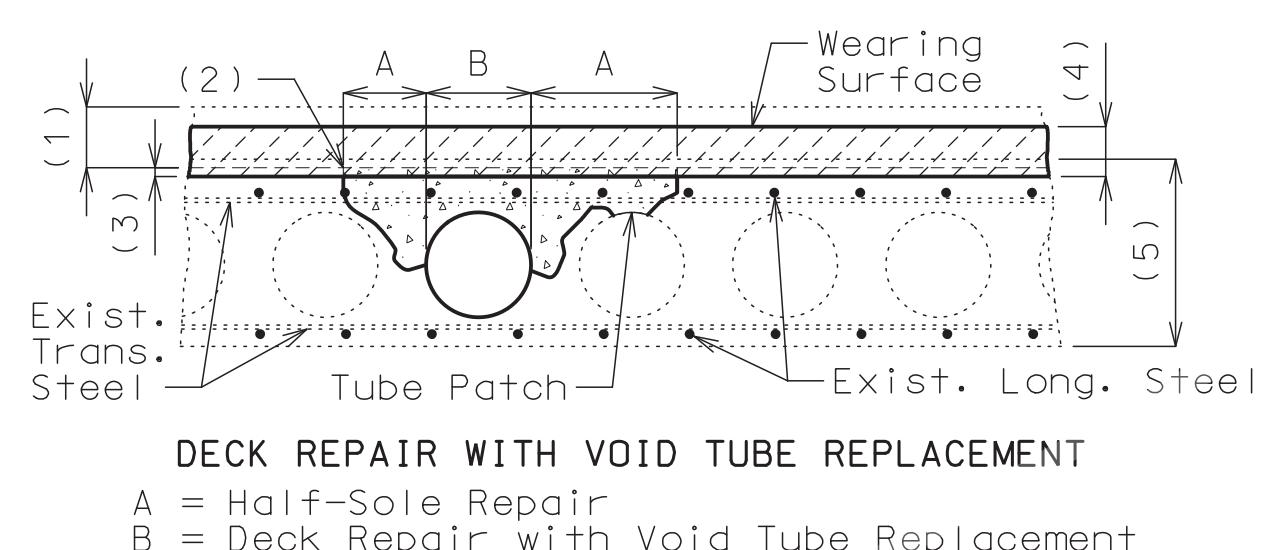
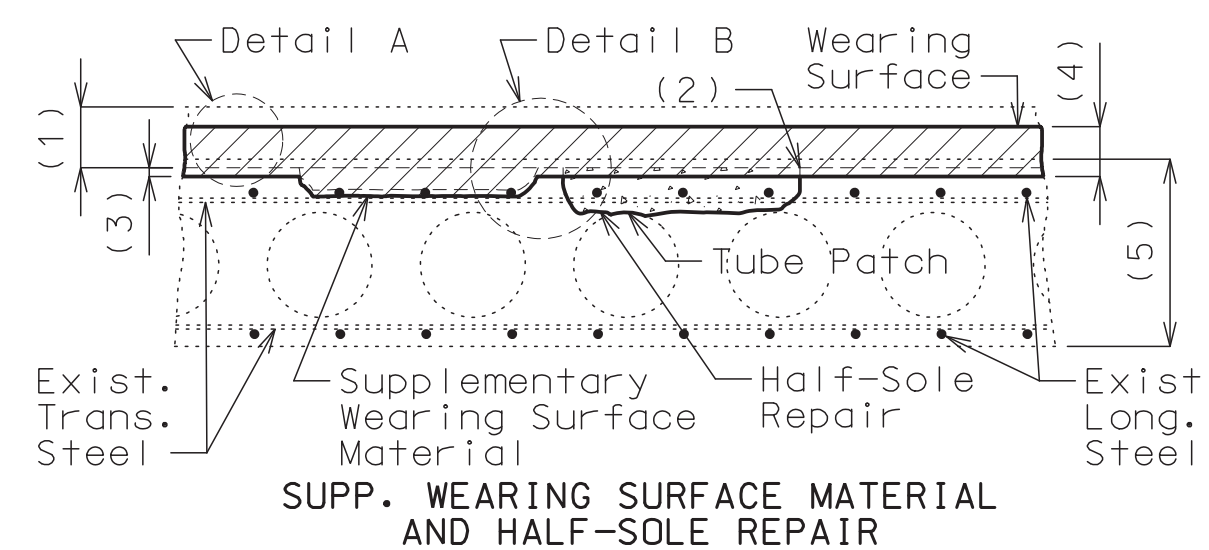
Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

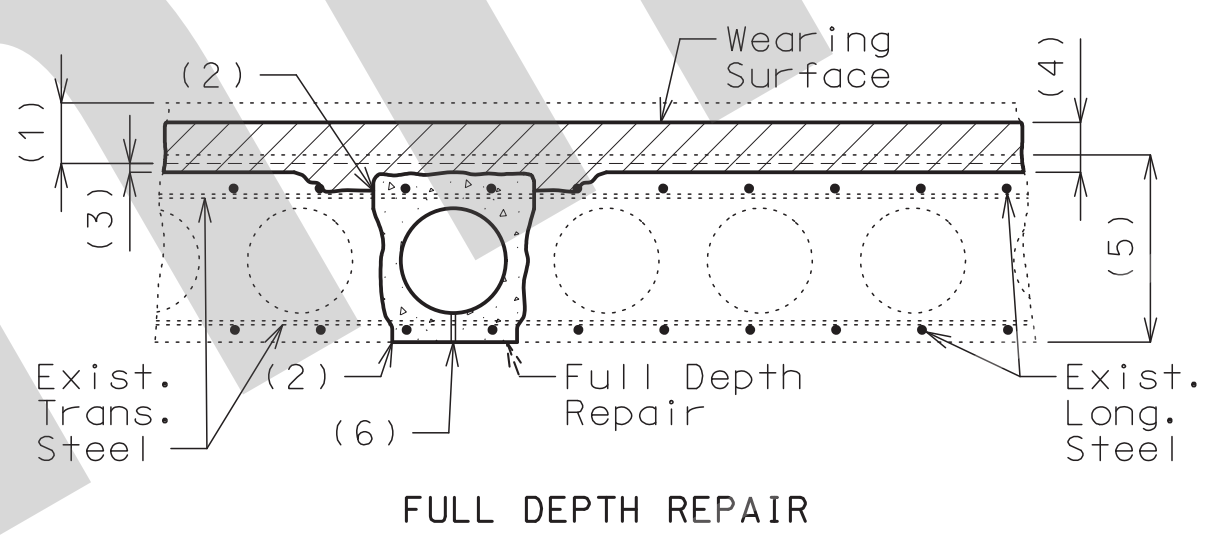
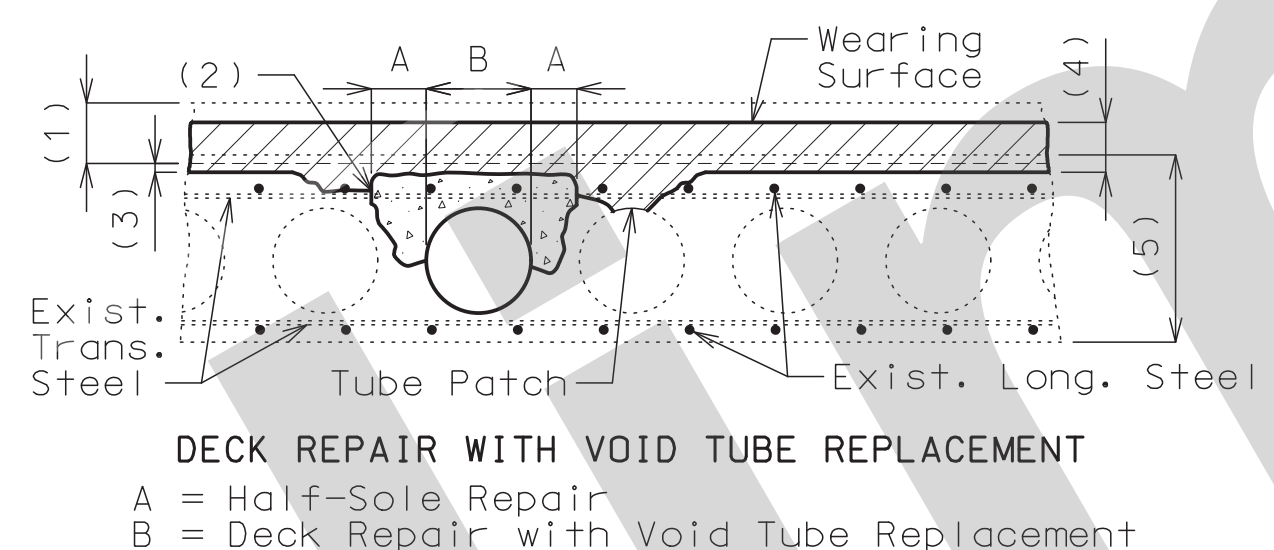
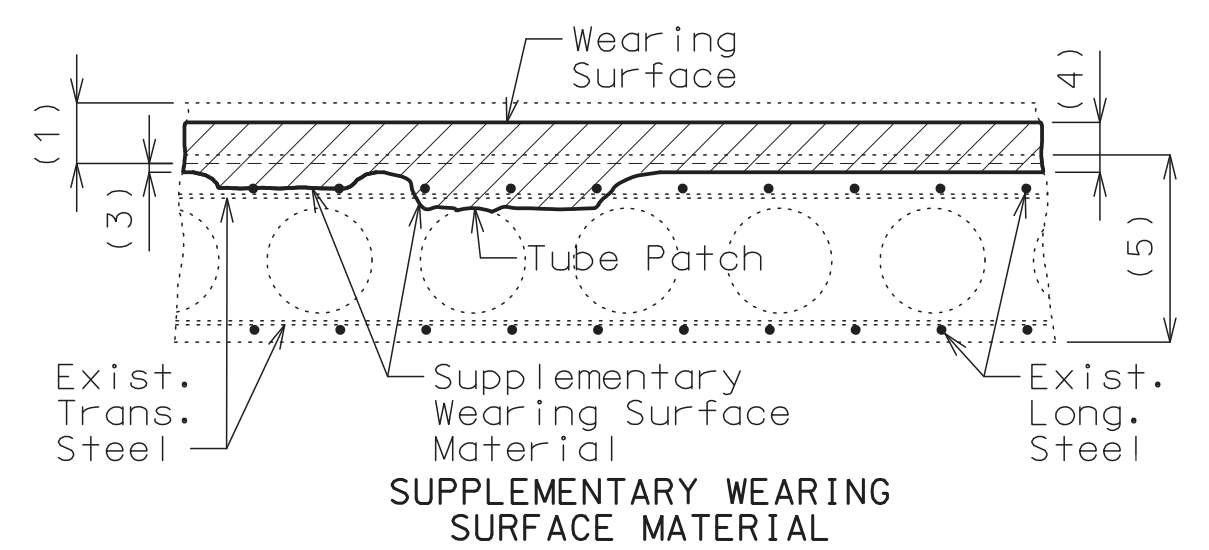
Sheet No. 7 of 7



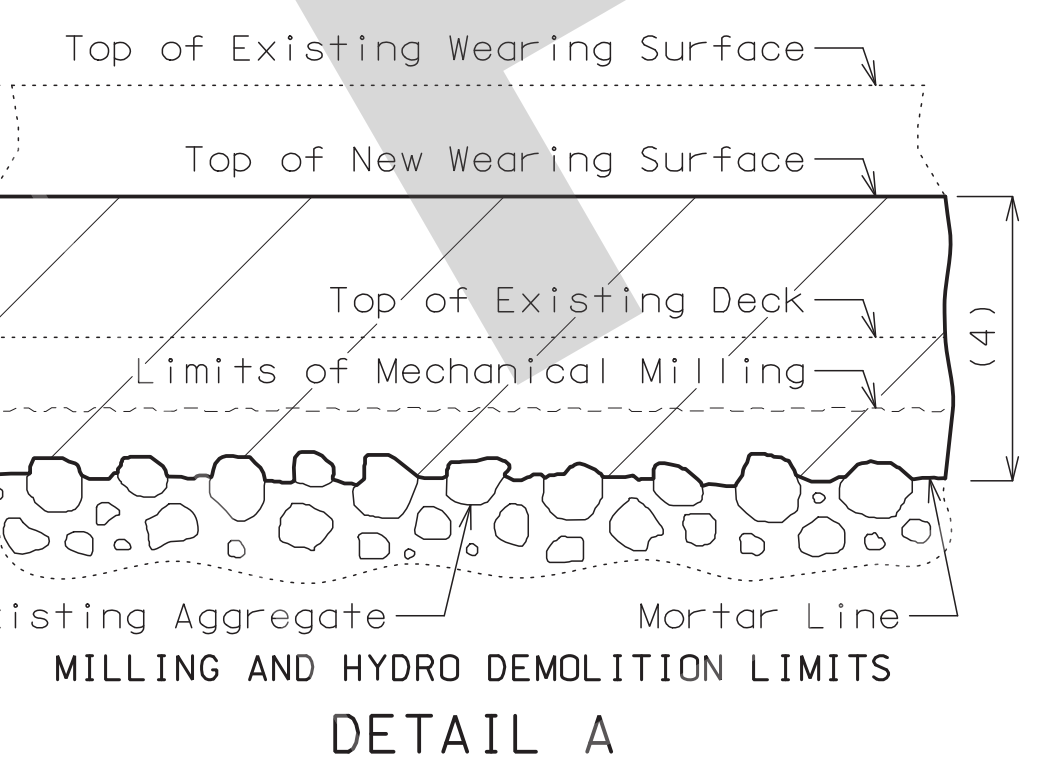
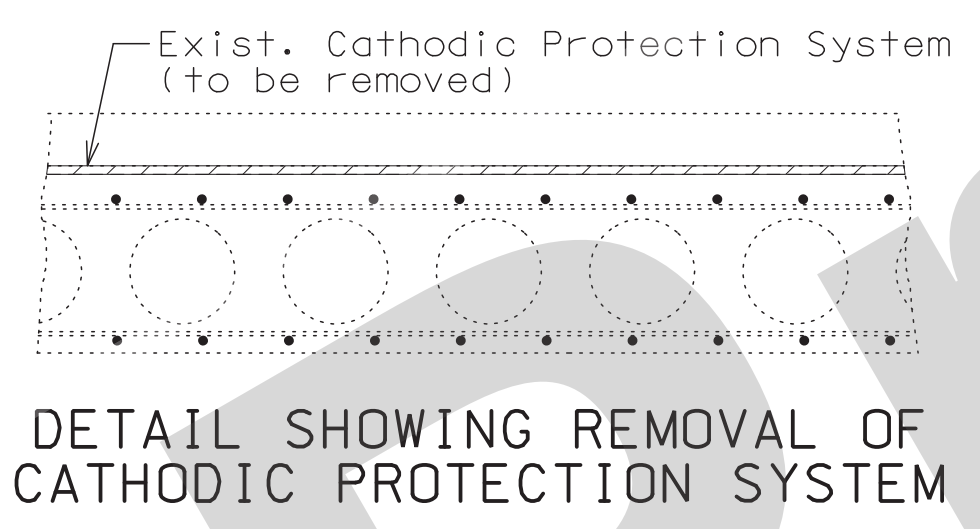
PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES



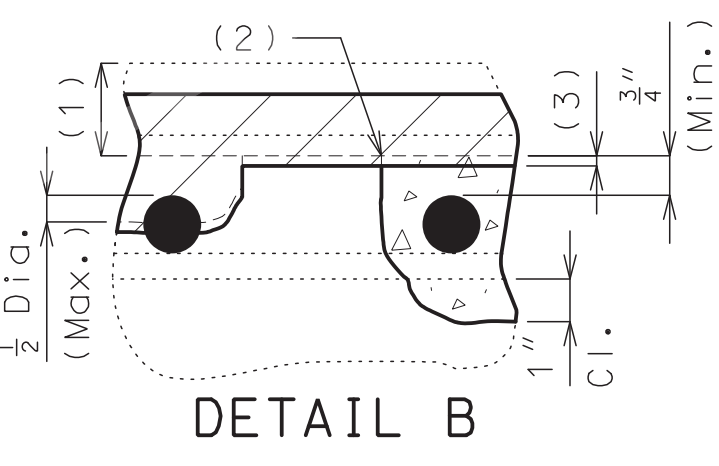
DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)



DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)

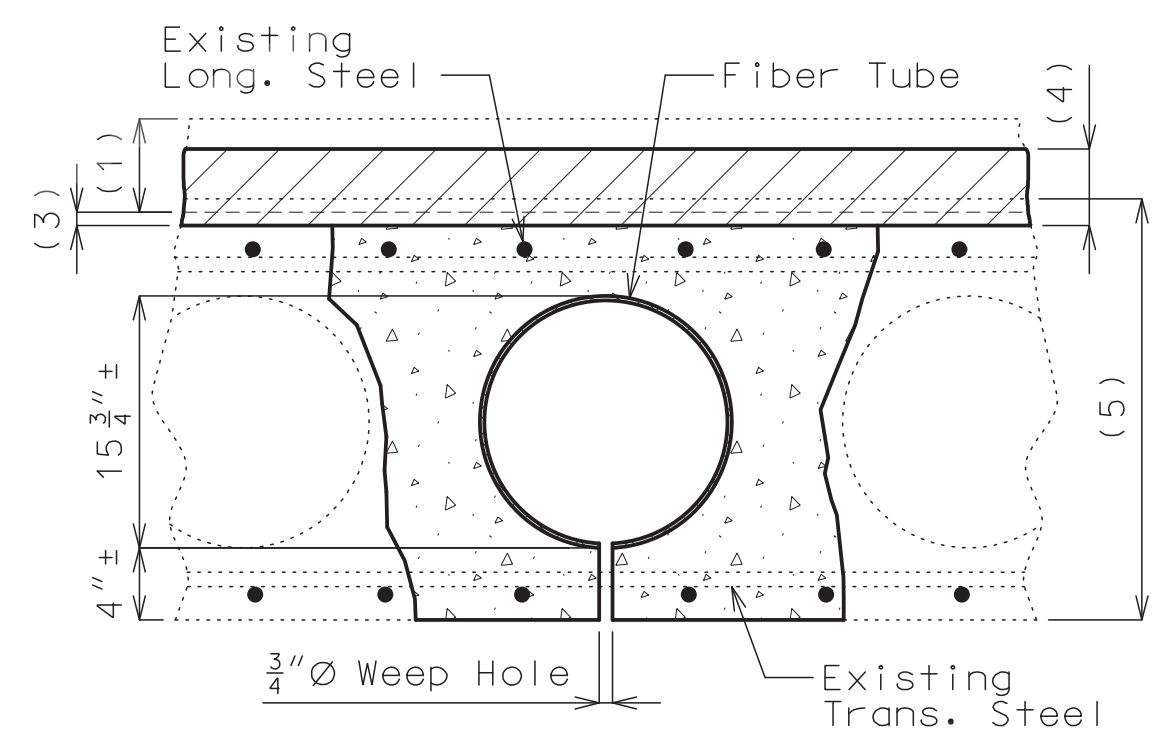


- (1) Removal of existing 1 3/4"± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
1/4" minimum inside special repair zones
1/2" minimum outside special repair zones
- (4) Modified Latex concrete wearing surface:
1 3/4" minimum inside special repair zones
2" minimum outside special repair zones
- (5) Original depth minus previous scarification
- (6) Restore existing weep hole, if encountered.



Supplementary Wearing Surface Material shall be used when only half the diameter or less of the top bar is exposed.

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.



FIBER VOID TUBE REPLACEMENT

Fiber tubes for producing voids shall have an approximate outside diameter of 15 3/4 inches and a wall thickness of 1/4 inch and shall be anchored to joists carrying the floor form at not more than 4-foot centers.

One 3/4"Ø weep hole shall be provided at 2 inches from each end of each new void.

DECK REPAIR DETAILS

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
 - a. Removal of existing deck repair
 - b. Half-sole repair
 - c. Deck repair with void tube replacement
 - d. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
 - a. Deck repair with void tube replacement
 - b. Full depth repair
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

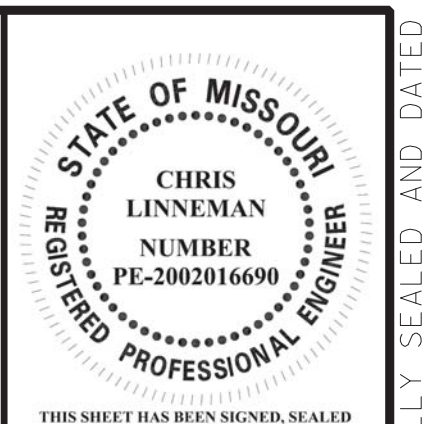
If any single repair area does not exceed 4 square feet in size and the total repair area within a special repair zone does not exceed 12 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Void Repair:

Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as required by the engineer at the contractor's expense.

An exposed void in the deck shall be patched as approved by the engineer in a manner that shall maintain the void area completely free of concrete. Cost of patching an exposed void will be considered completely covered by the contract unit price for Half-Sole Repair inside special repair zones and Monolithic Deck Repair outside special repair zones.

When a deteriorated portion of the void tube is beyond the point of patching as determined by the engineer, the portion of the deteriorated void tube shall be replaced. The void area shall be maintained completely free of concrete. Cutting of the longitudinal reinforcing steel will not be permitted. The fiber tubes for producing the voids shall have an outside diameter with the wall thickness the same as the existing tubes and anchored at not more than the original spacing. Cost of replacing the void tube will be considered completely covered by the contract unit price for Deck Repair with Void Tube Replacement. Measurement will be horizontal projection of the area of exposed tube in plan.



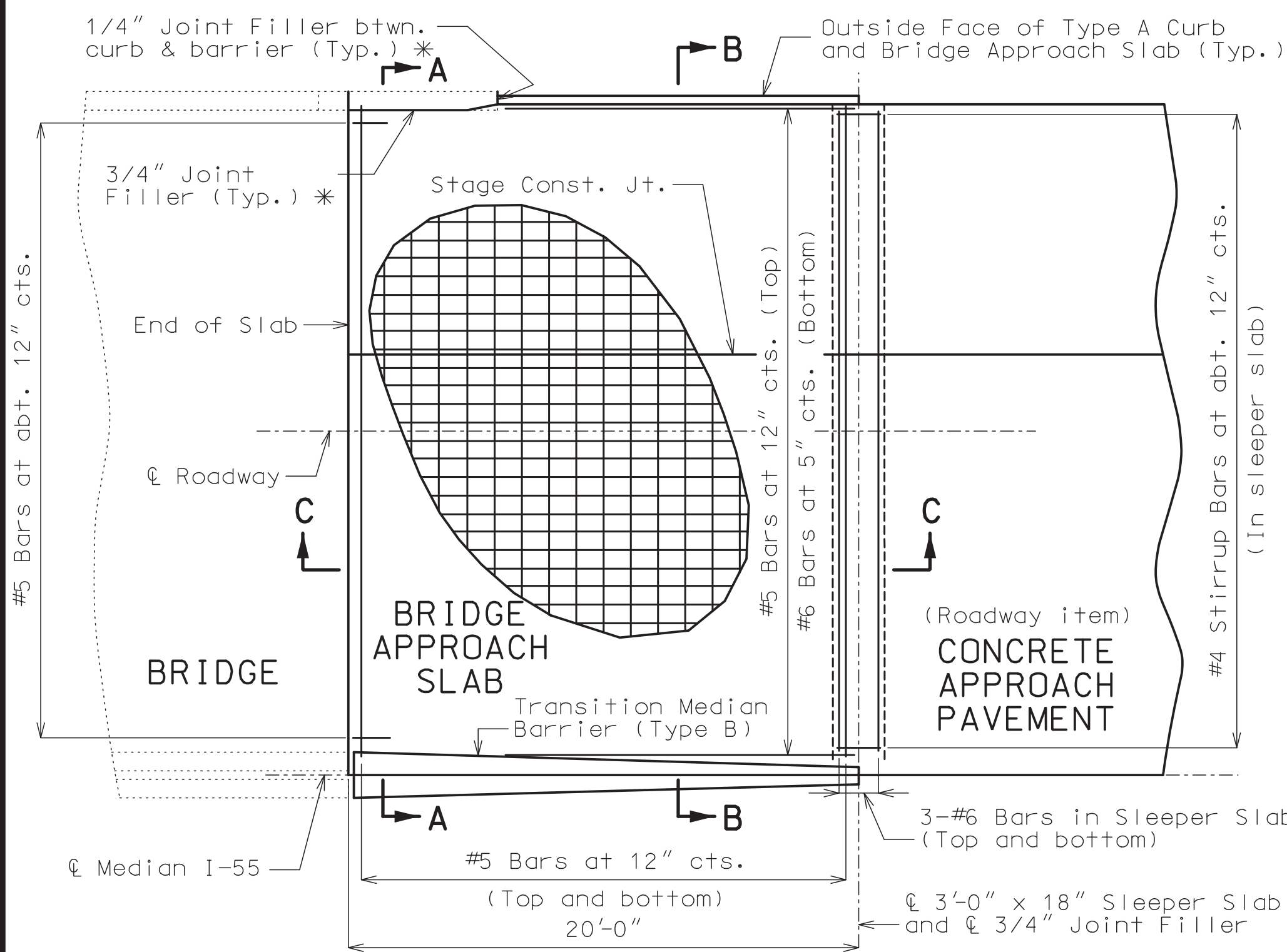
DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10793	

DESCRIPTION	DATE

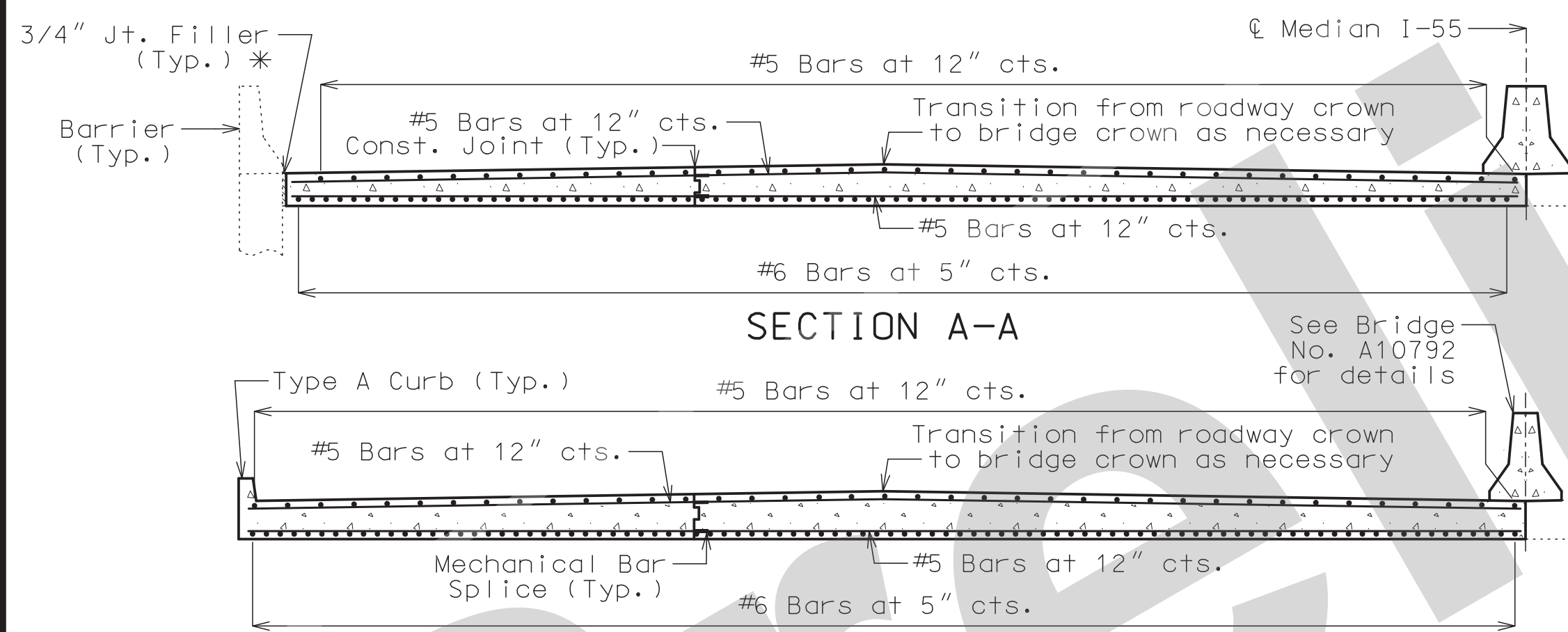
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578



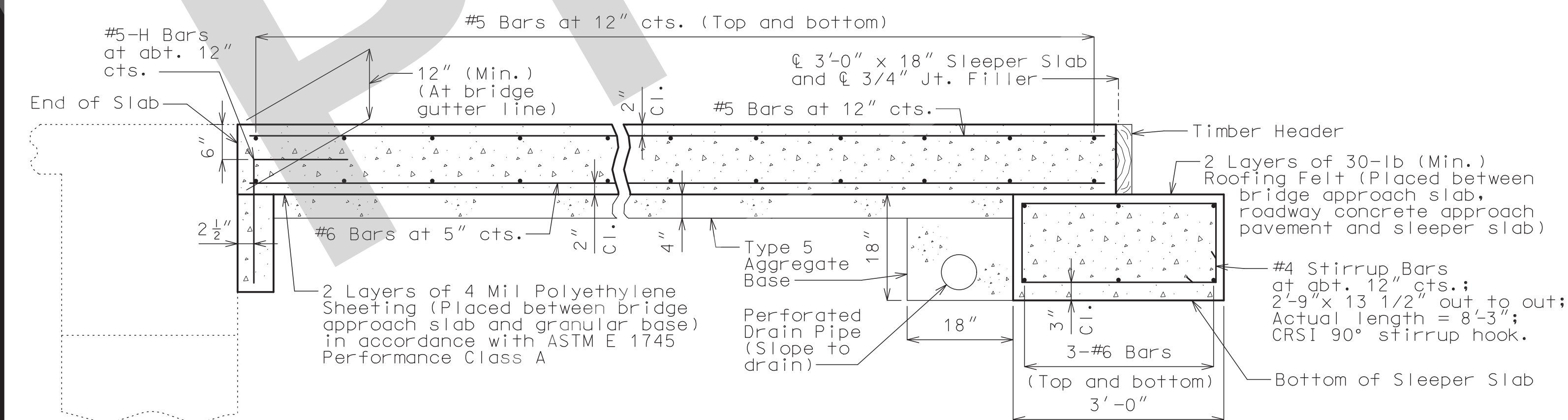
PART PLAN SHOWING REINFORCEMENT



SECTION A-A

SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

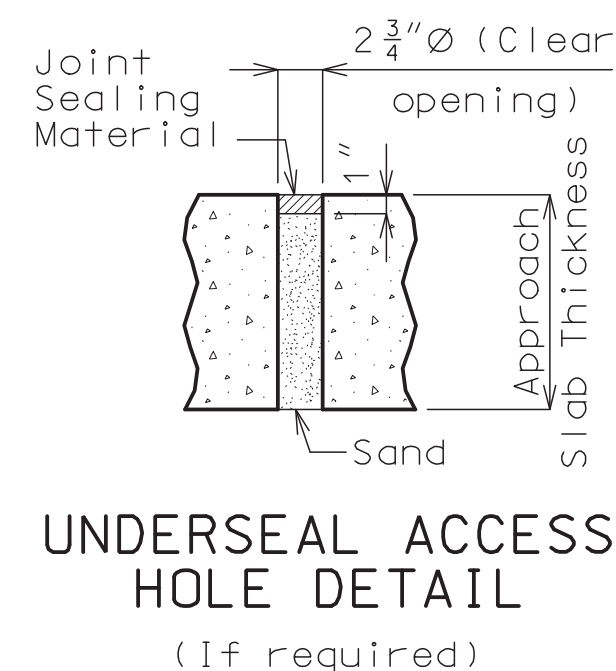


SECTION C-C

Note: New wearing surface not shown for clarity.

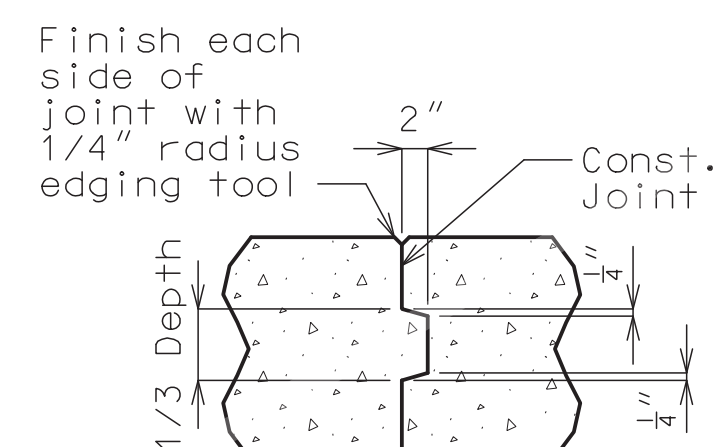
BRIDGE APPROACH SLAB (MAJOR)

Note: This drawing is not to scale. Follow dimensions.

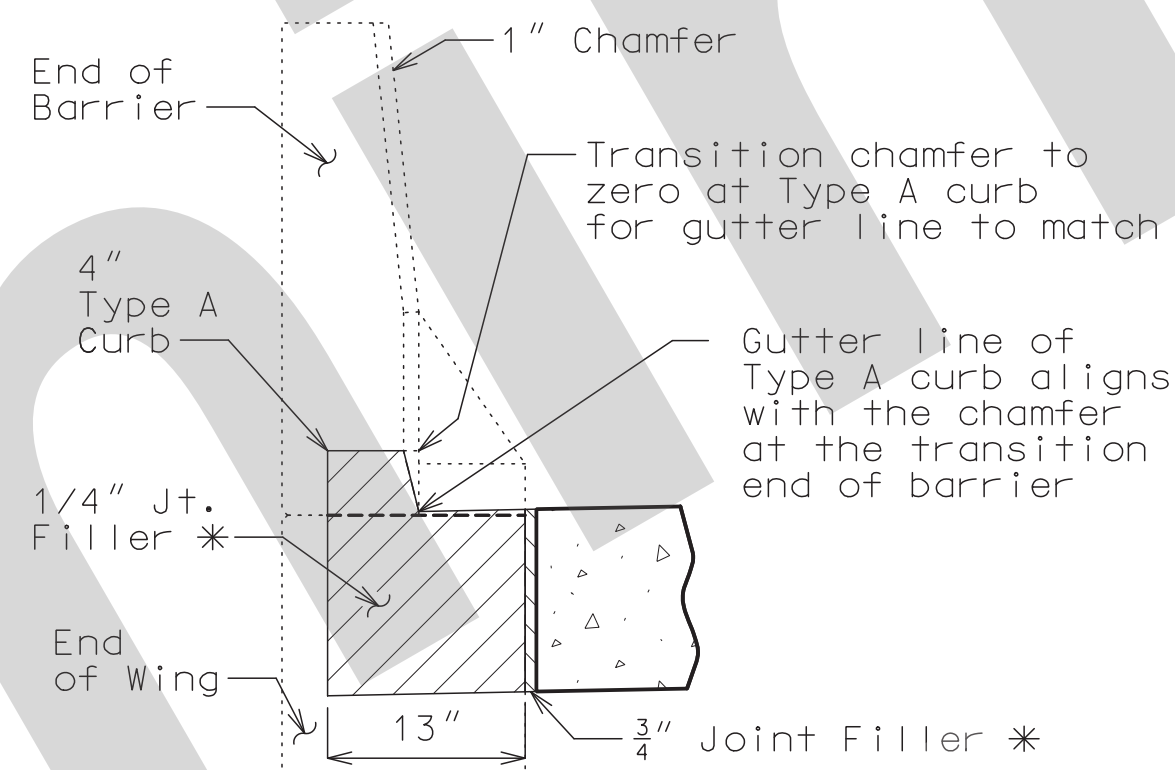


UNDERSEAL ACCESS HOLE DETAIL

(If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 50± splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

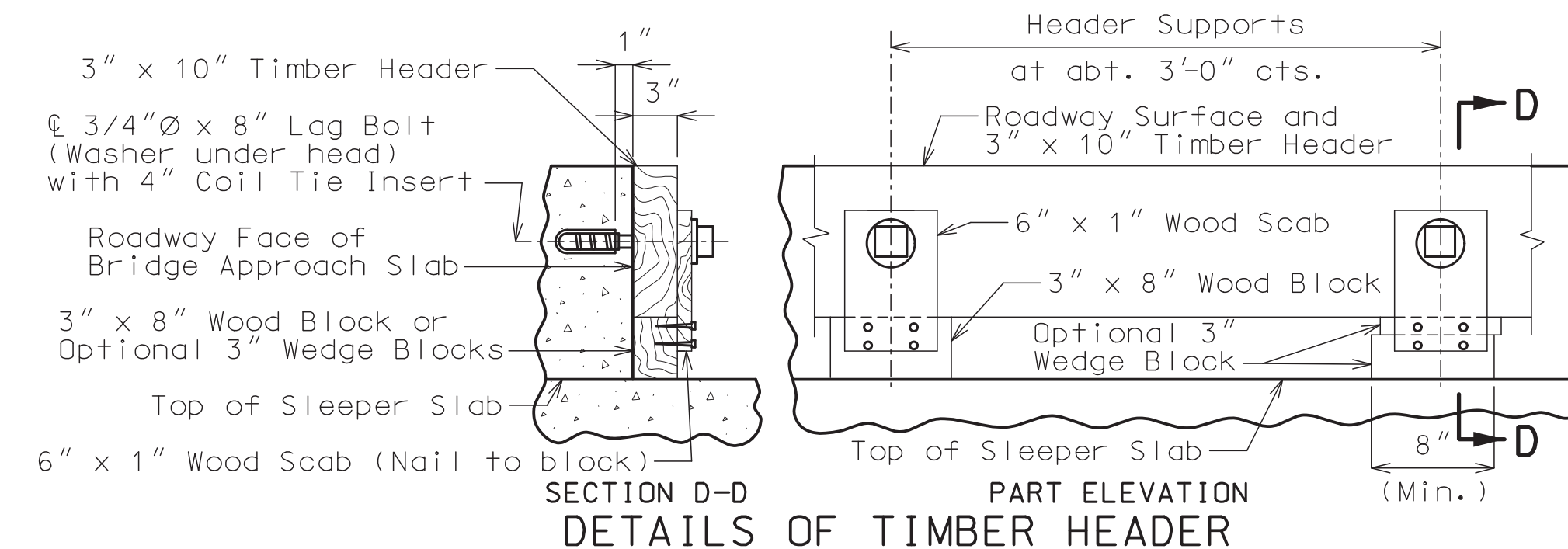
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans. See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS CITY

JOB NO. J6I3149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10793

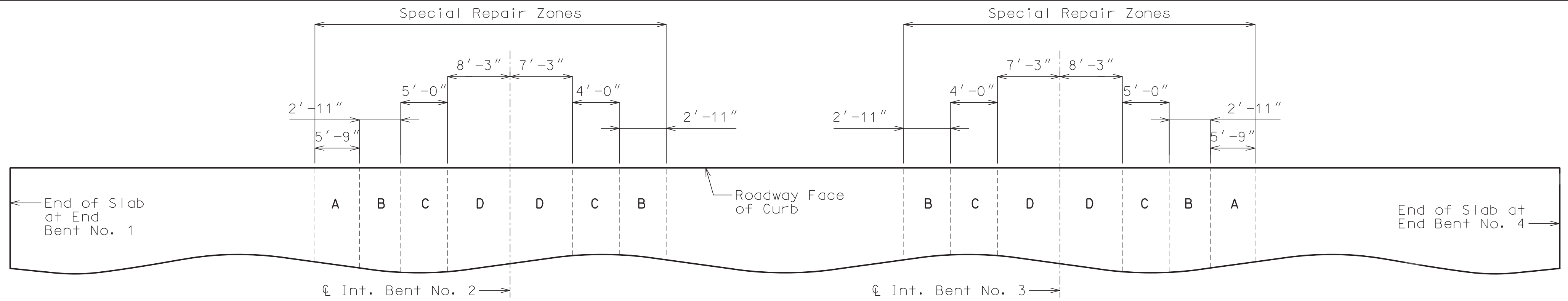
DESCRIPTION

DATE

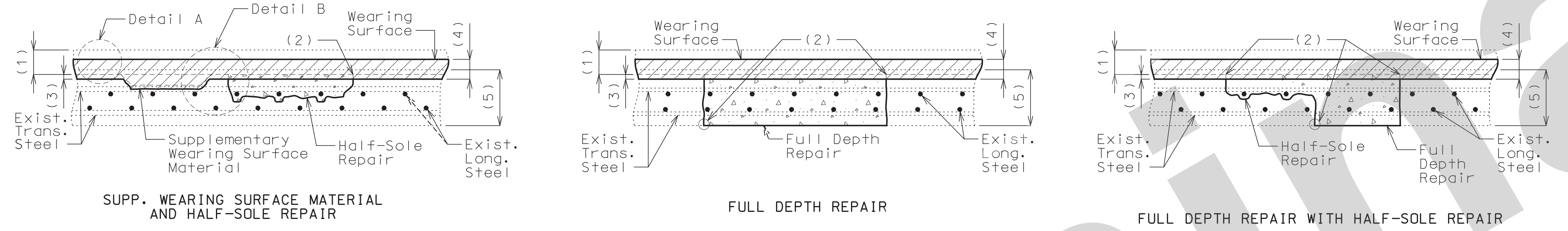
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

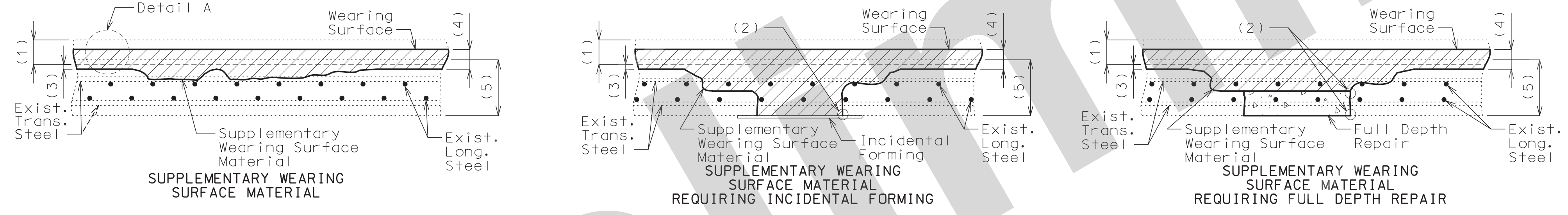
EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578



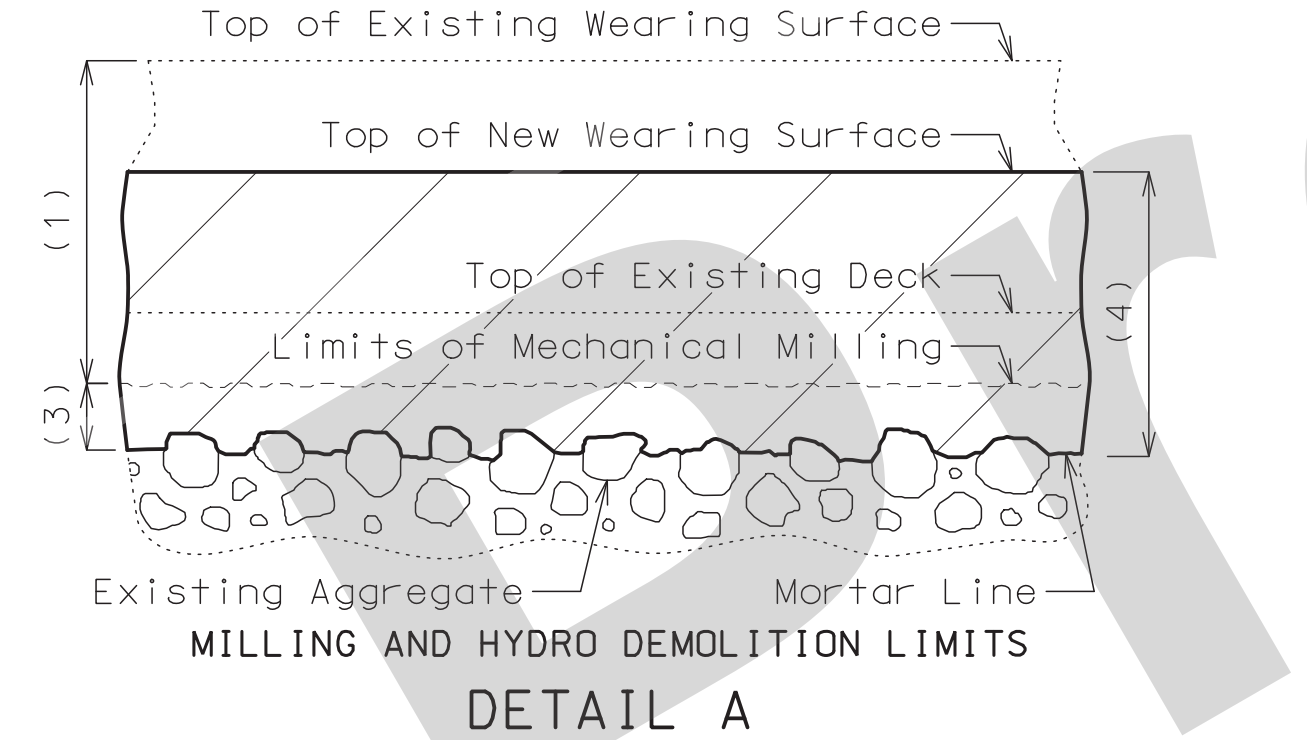
PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES



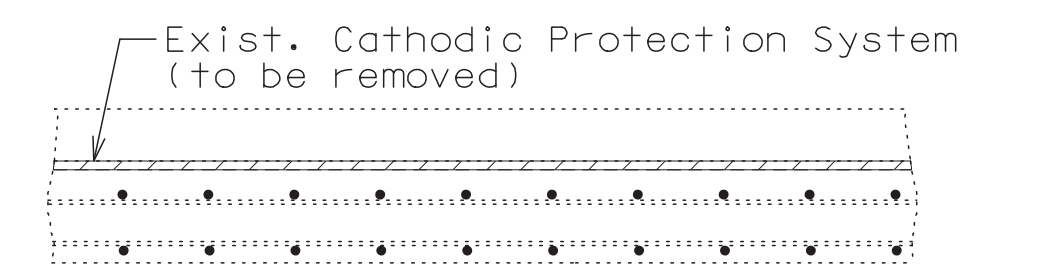
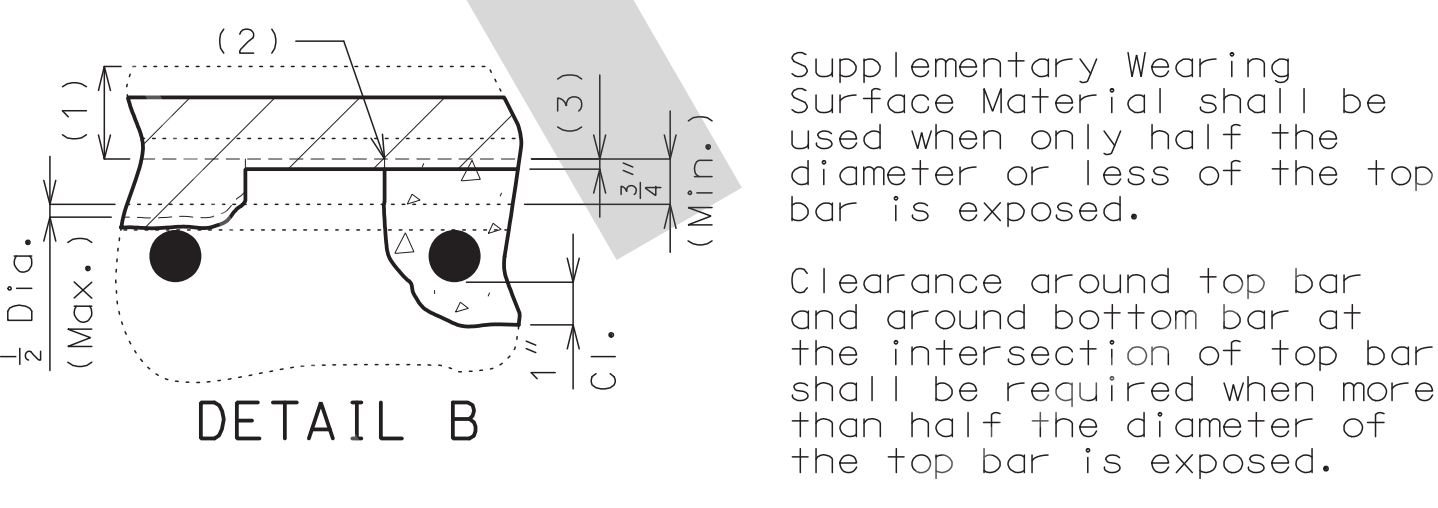
DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)



DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)



- (1) Removal of existing 1 3/4"± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
 1/4" minimum inside special repair zones
 1/2" minimum outside special repair zones
- (4) Modified latex concrete wearing surface:
 1 3/4" minimum inside special repair zones
 2" minimum outside special repair zones
- (5) Original thickness of top slab minus previous scarification



DETAIL SHOWING REMOVAL OF CATHODIC PROTECTION SYSTEM

DECK REPAIR DETAILS

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
 a. Removal of existing deck repair
 b. Half-sole repair
 c. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete full depth repair.
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

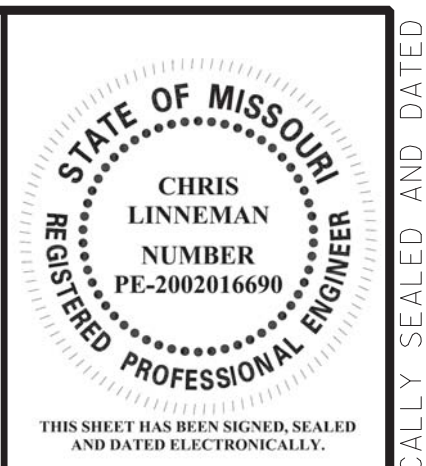
Total width of full depth repair shall not exceed 1/3 of the deck width at one time. For any area of deck repair that extends over a web and is more than 18 inches in length along the web, the concrete removal including removal with hydro demolition shall stop at the centerline of web and repair completed in this area. Prior to continuing work in this area, the concrete shall have attained a compressive strength of 3200 psi. No traffic shall be permitted over the web that is undergoing repair.

When the full depth repair extends over a diaphragm or web and the deteriorated concrete extends into the diaphragm or web, all deteriorated concrete shall be removed and replaced as full depth repair. Concrete in webs shall not be removed below the slab haunch of the girder without prior review and approval from the engineer.

Interior falsework installed by the contractor resting on the bottom slab shall be removed where entry access is available.

If any single repair area does not exceed 9 square feet in size and the total repair area within a special repair zone does not exceed 27 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Half-sole repair in the special repair zone, on either side of the intermediate bents, shall be to a depth that will not expose half the diameter of the longitudinal reinforcing bar. Full depth repair shall be made when removal of deteriorated concrete exposes half or more of the diameter of the longitudinal reinforcing bar.



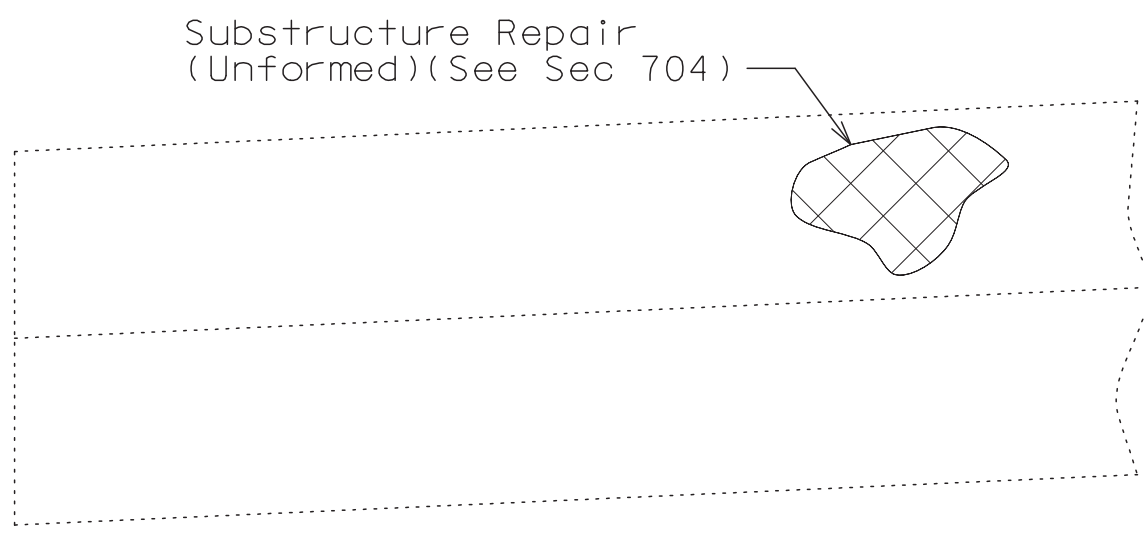
DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10802	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

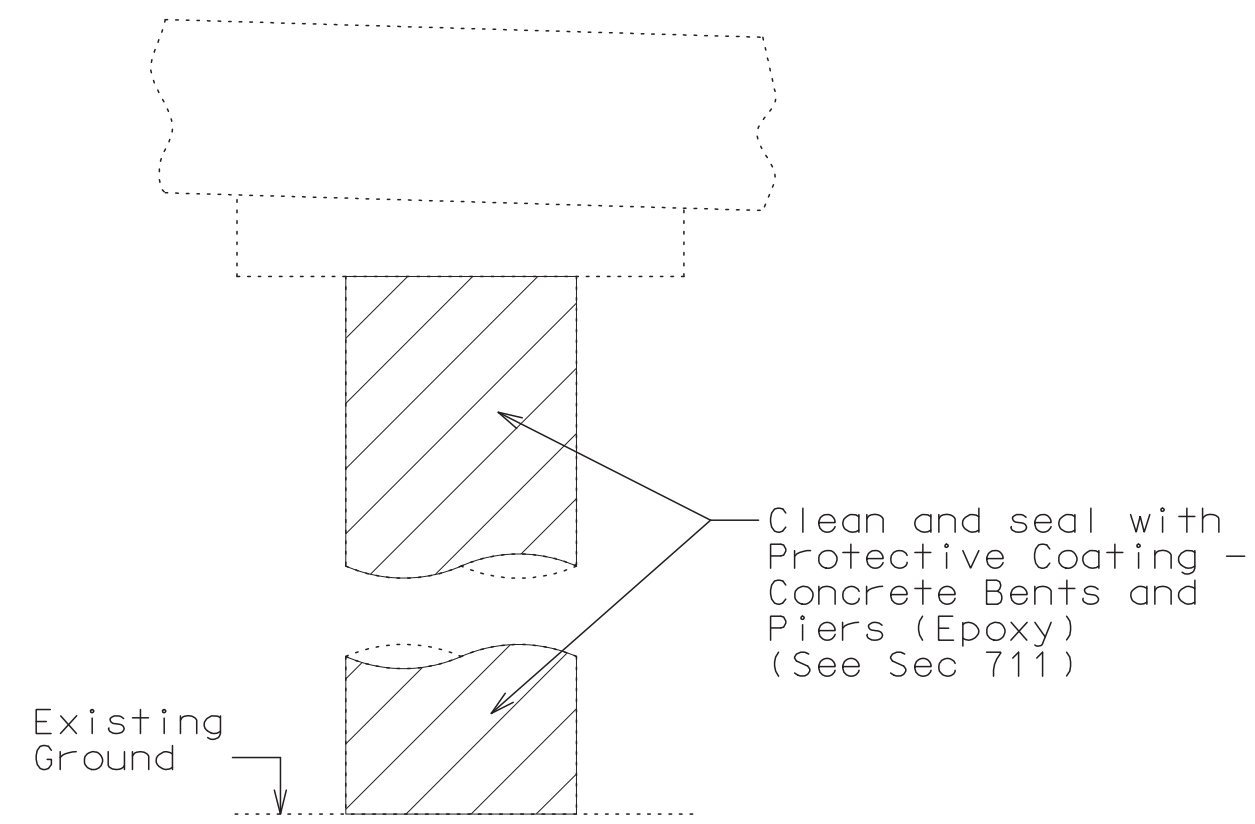
EKK Moen
 Civil Engineering Design
 1323 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
 Missouri Certificate of Authority: 001578



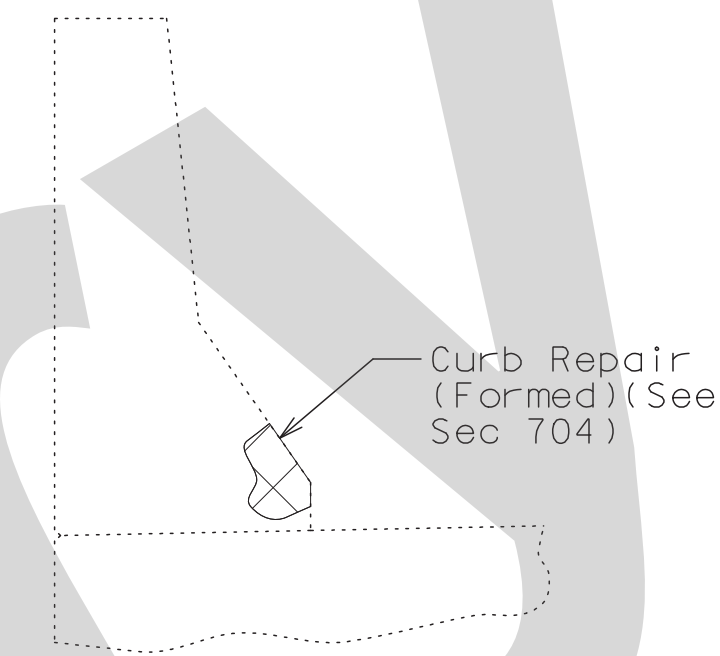
Substructure Repair
(Unformed)(See Sec 704)

PART ELEVATION

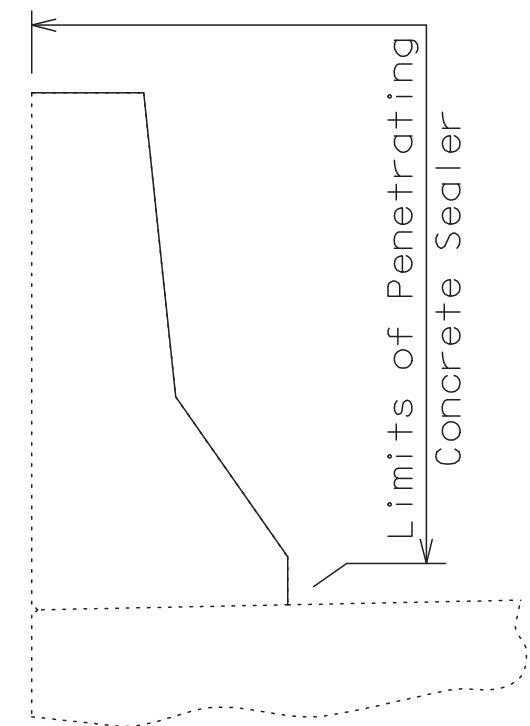
DETAIL SHOWING SUBSTRUCTURE REPAIR
AT END BENT NO. 1



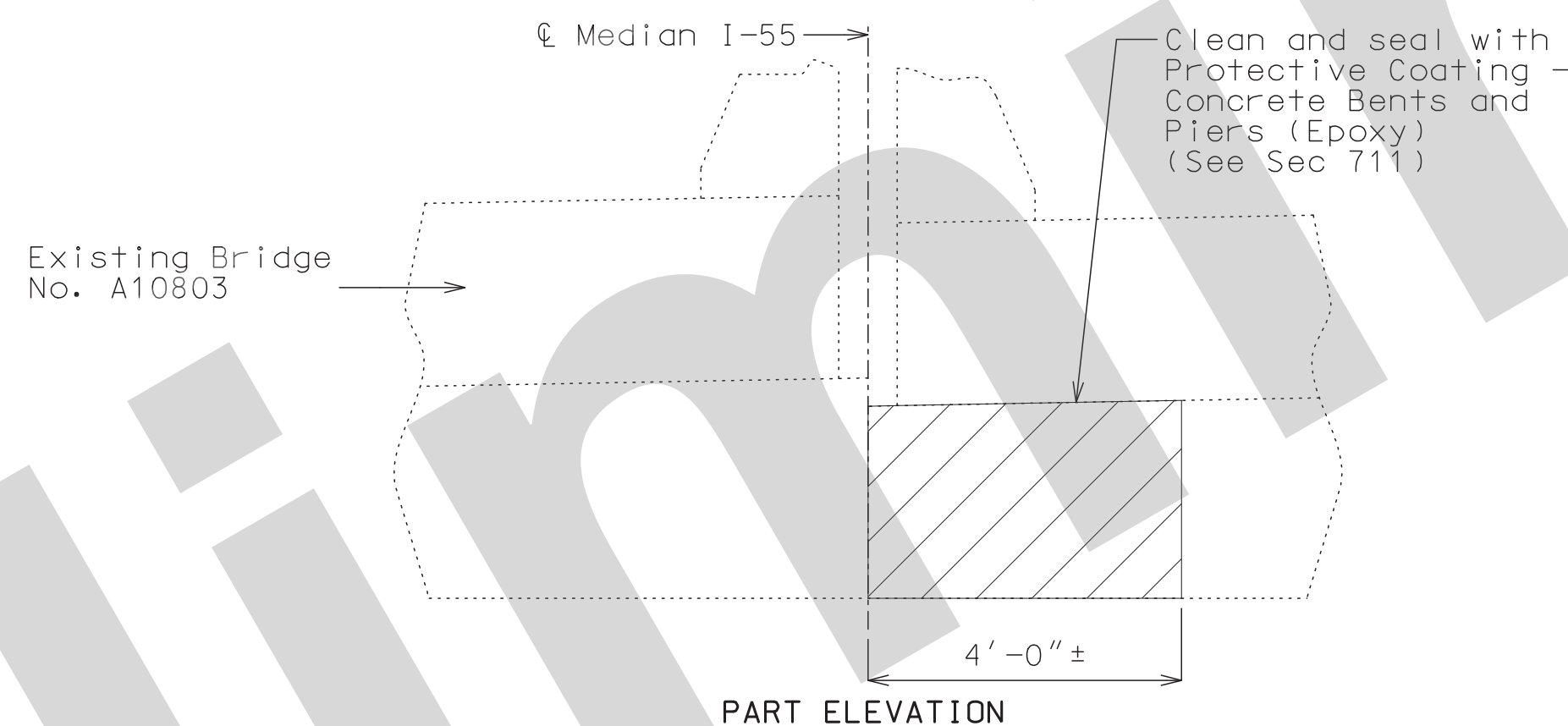
TYPICAL SECTION THRU INT. BENTS
SHOWING PROTECTIVE COATING
(Applies to Int. Bents No. 2 & 3)



DETAIL SHOWING CURB REPAIR

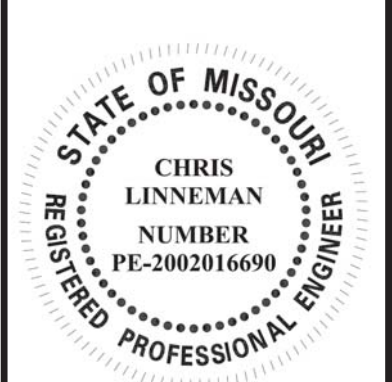


DETAIL SHOWING PENETRATING
CONCRETE SEALER
(Full length of all barrier curbs)



DETAIL SHOWING PROTECTIVE COATING
AT END BENTS NO. 1 & 4

REPAIR DETAILS



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

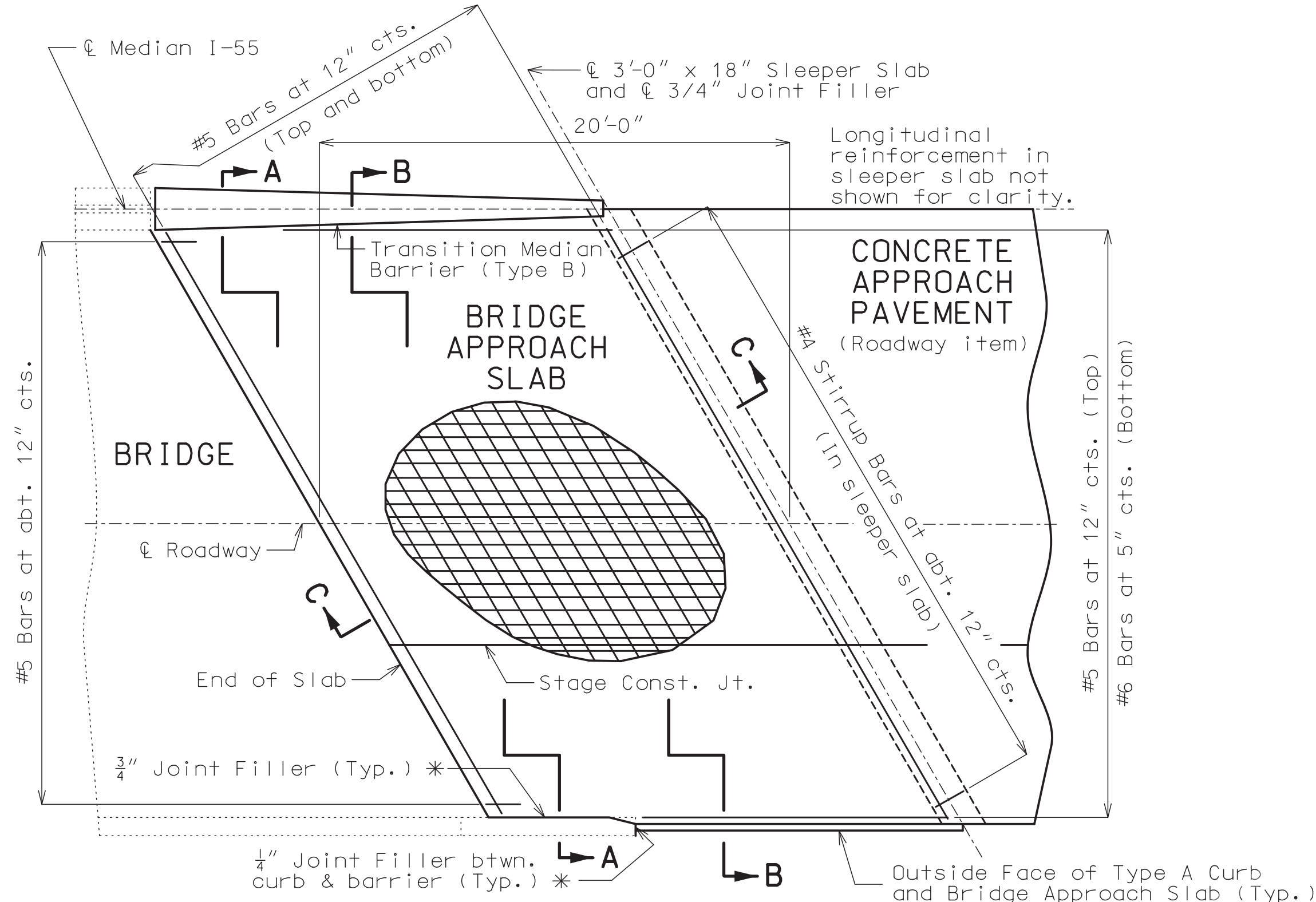
DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 3
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10802	

DATE	DESCRIPTION

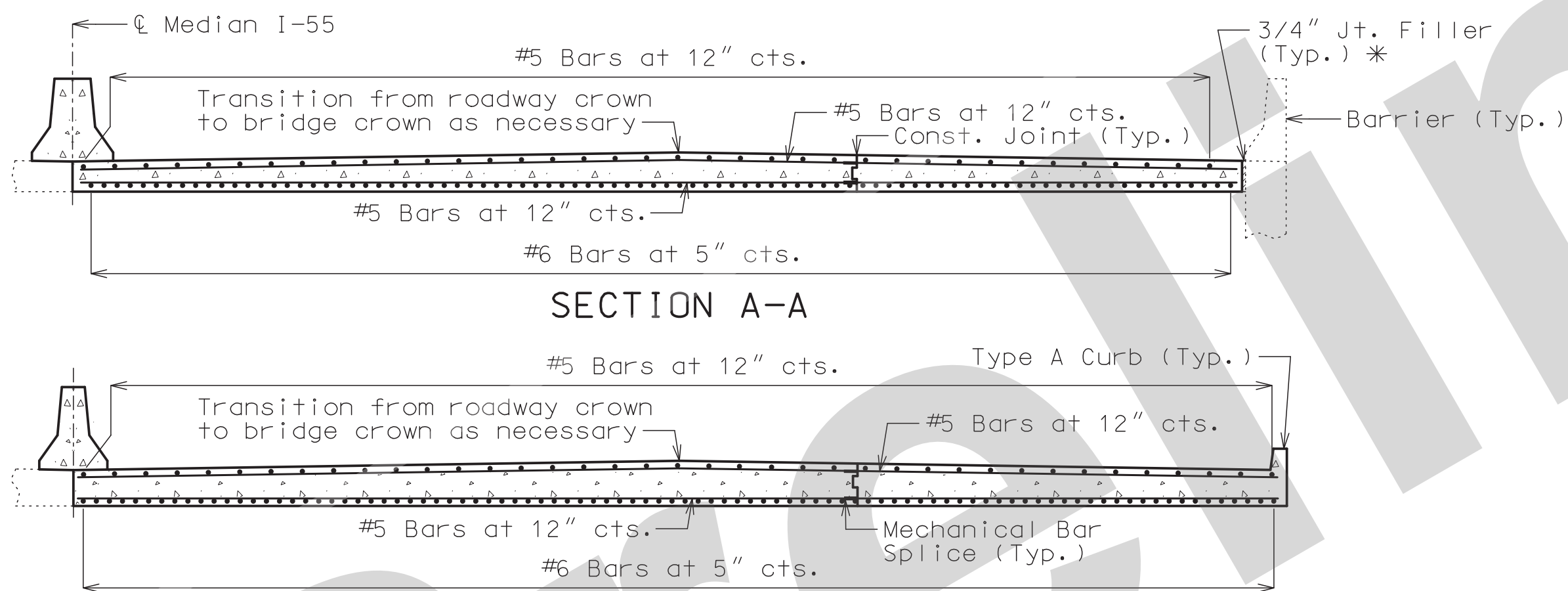
MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EKK Moen
Civil Engineering Design
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314-594-5100
Missouri Certificate of Authority: 001578



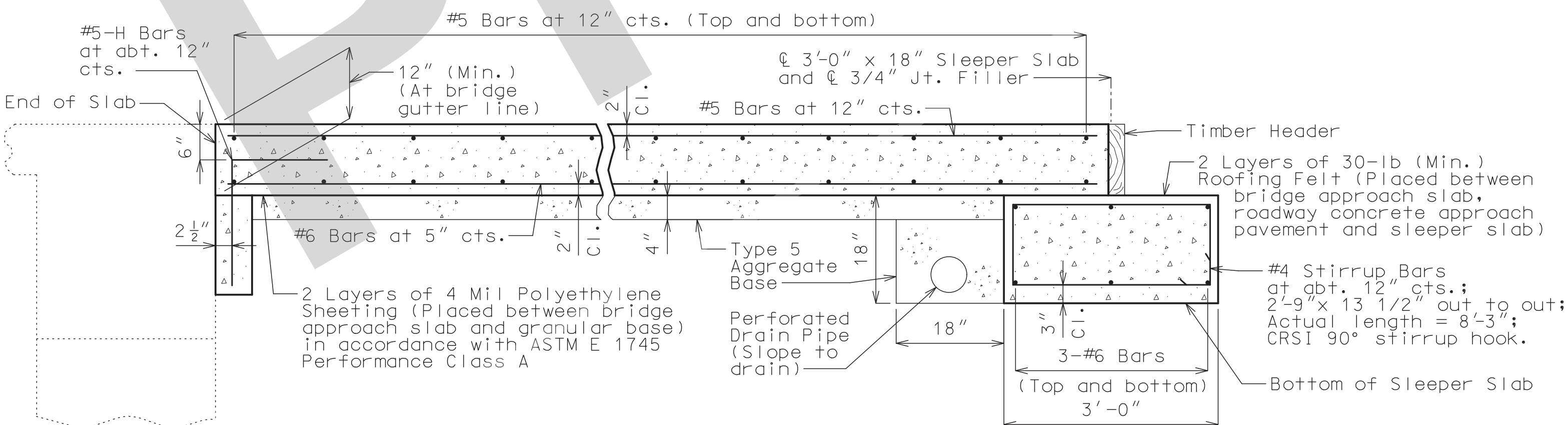
PART PLAN SHOWING REINFORCEMENT



SECTION A-A

SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

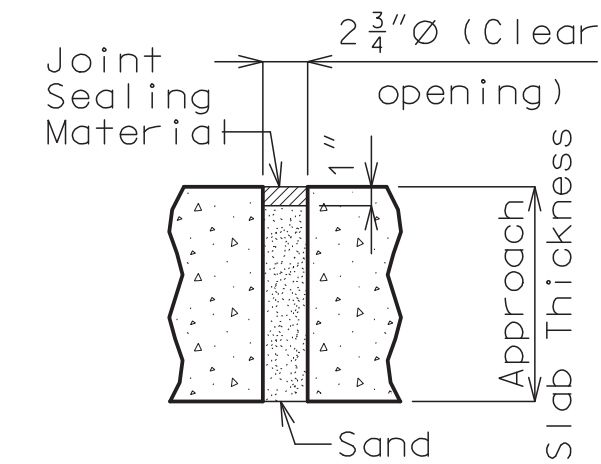


SECTION C-C

Note: New wearing surface not shown for clarity.

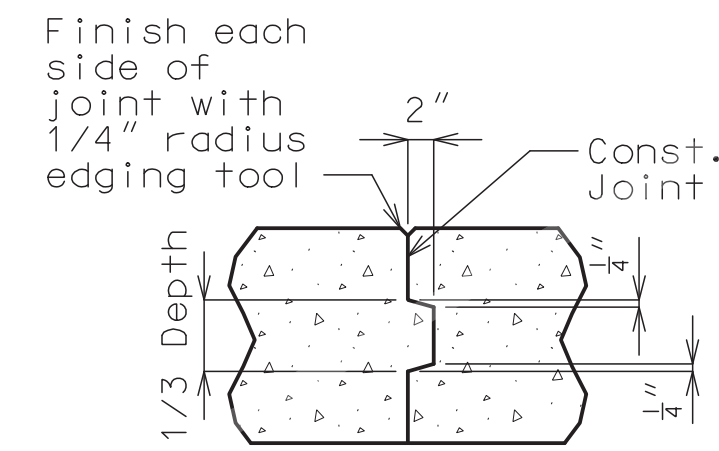
BRIDGE APPROACH SLAB (MAJOR)

Note: This drawing is not to scale. Follow dimensions.

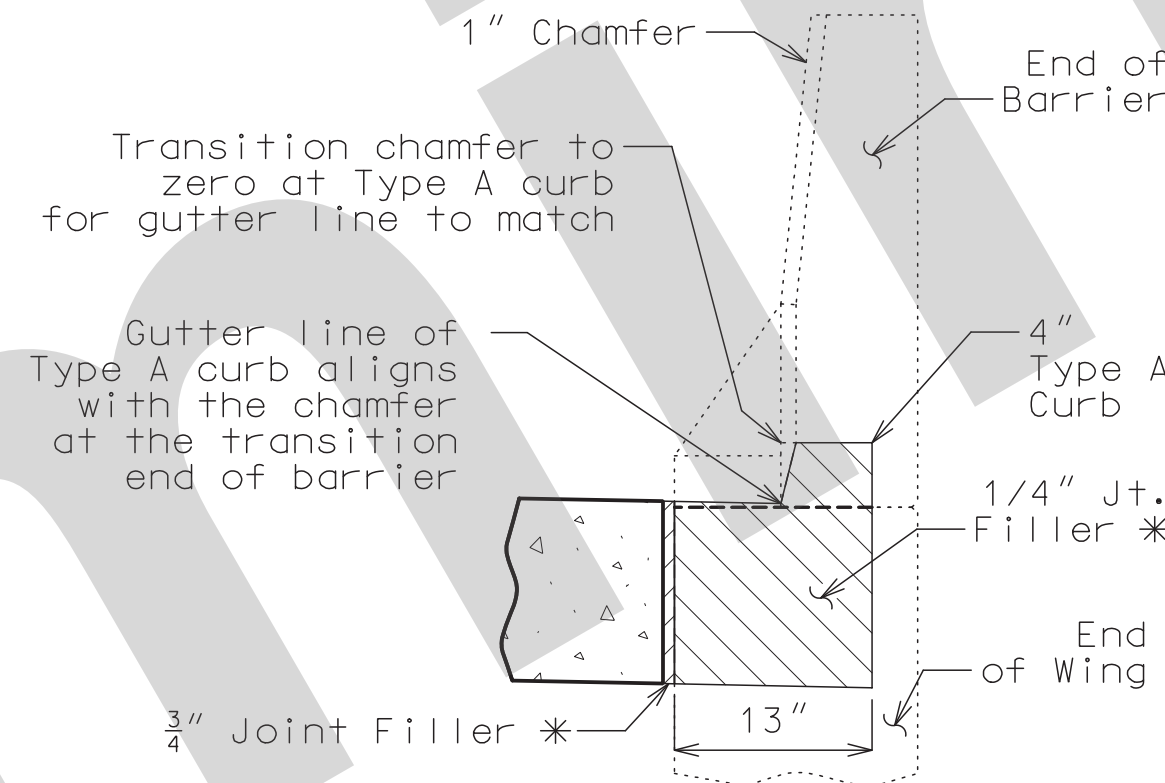


UNDERSEAL ACCESS HOLE DETAIL

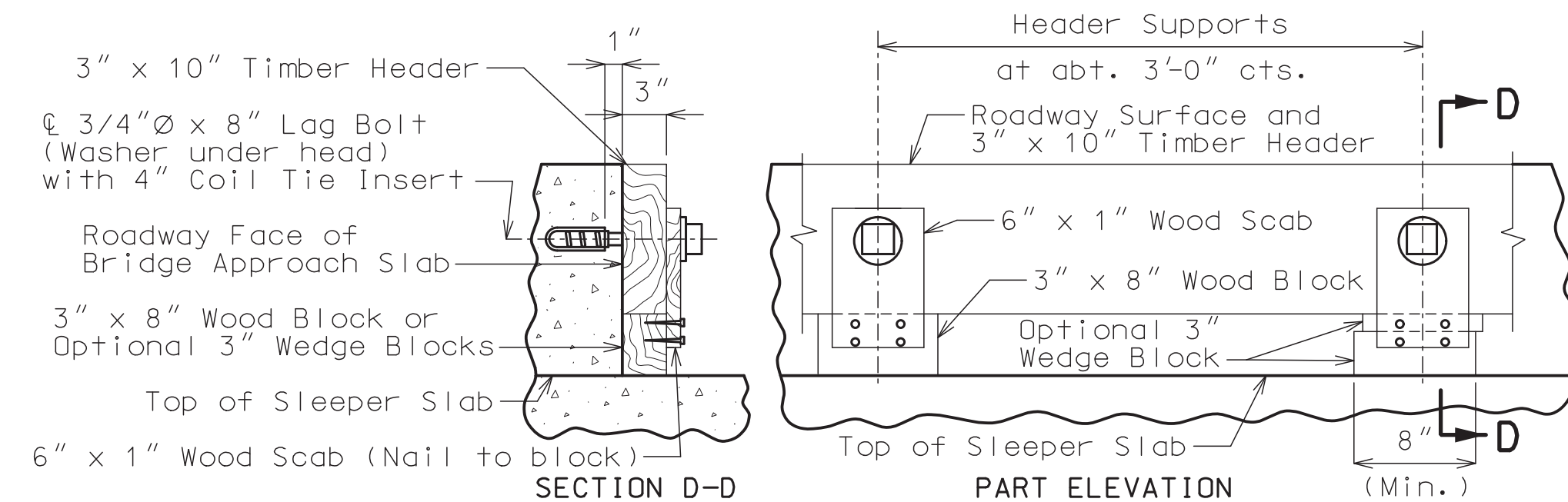
(If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB



SECTION D-D
PART ELEVATION
DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 50± splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10802	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

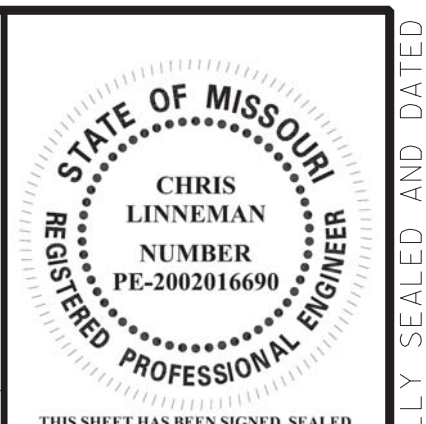
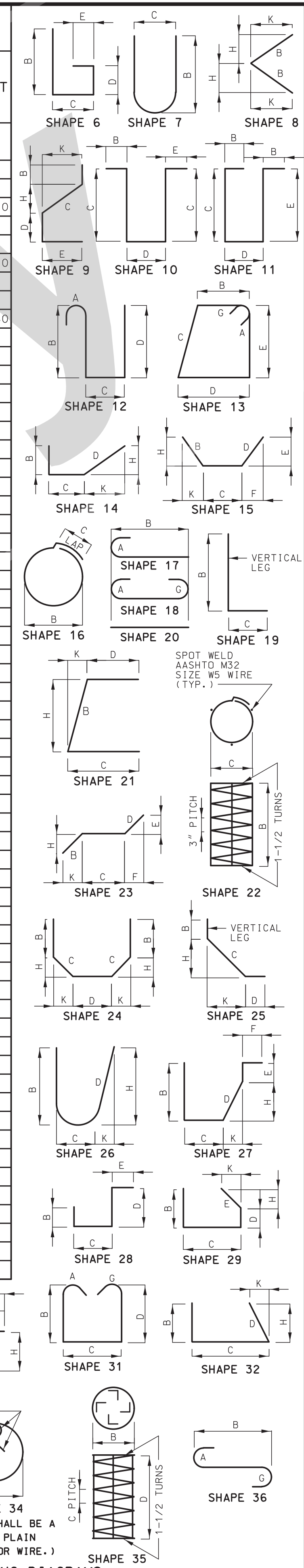
EKK Moen
Civil Engineering Design
1323 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B		C		D		E		F		H		K				
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
124	5 H1	App. Notch	E 19						2	4.000	0	15.000							3	7	3	5	442		
12	5 H2	App. Notch	E 20						42	0.000									42	0	42	0	526		
		MEDIAN																							
16	5 M9	Median	E 20						19	9.000									19	9	19	9	330		
84	5 M10	Median	E 14								3.500	2	6.000			2	5.000	2.000	2	10	2	8	234		

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B		C		D		E		F		H		K				
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
5		TOTALS																							1530
5		REINFORCING STEEL (EPOXY COATED)																							970
5		MEDIAN																							560



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS CITY
JOB NO. J6I3149
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10802

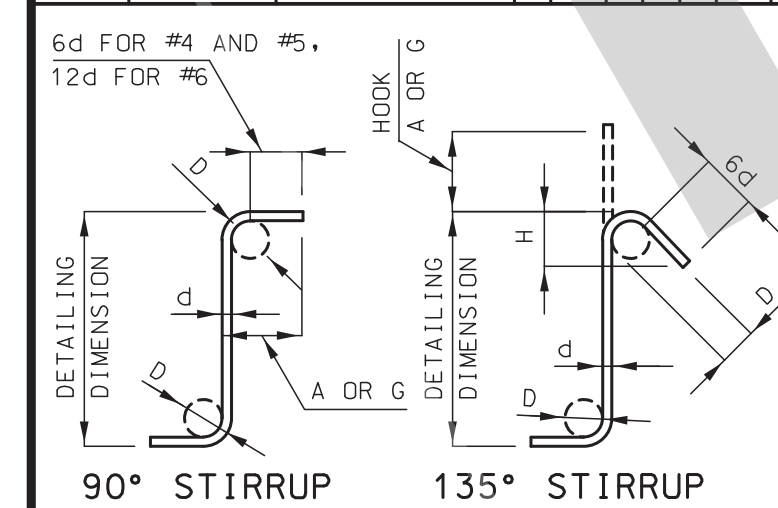
DESCRIPTION

DATE

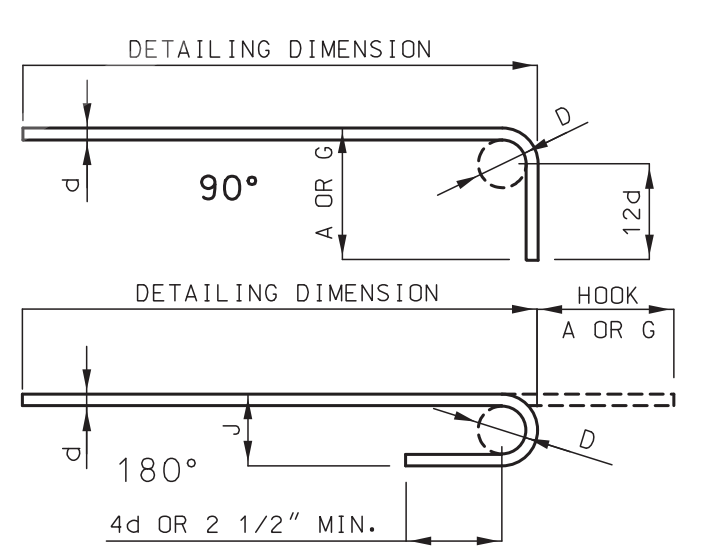
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

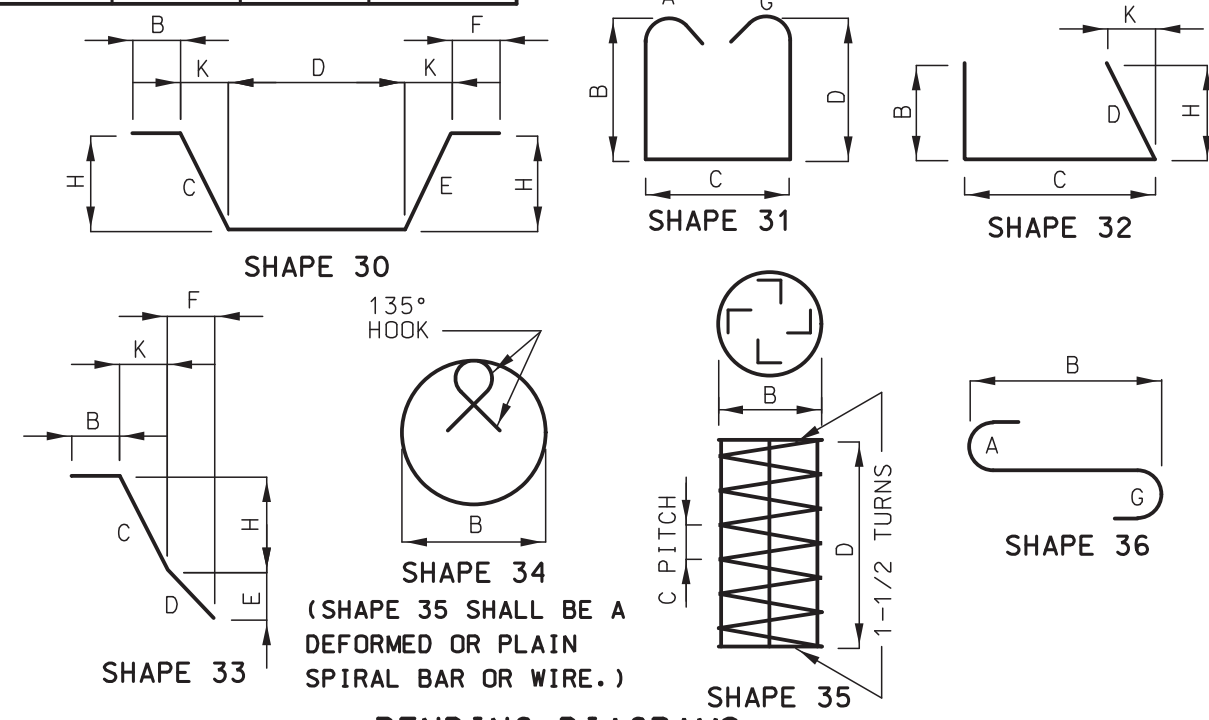


BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		A OR G	H	A OR G	H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	



BAR SIZE	D (IN.)	ALL GRADES			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	H
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

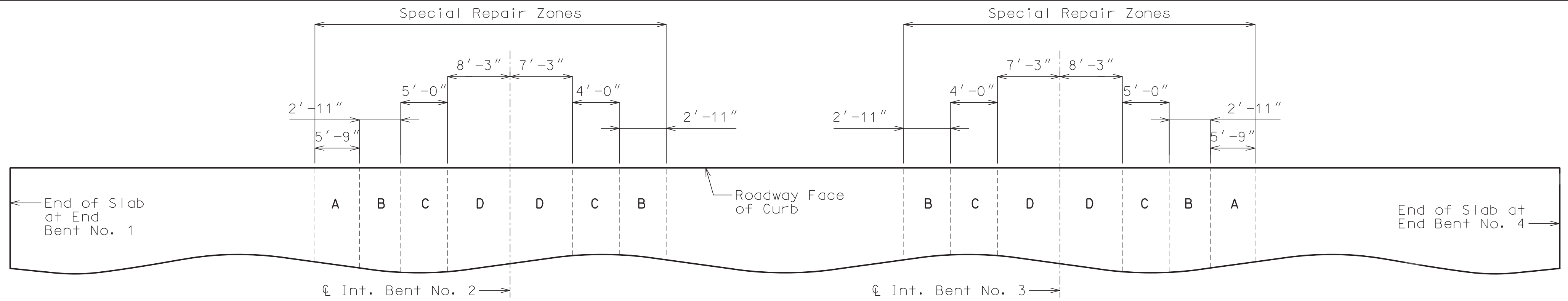
NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.



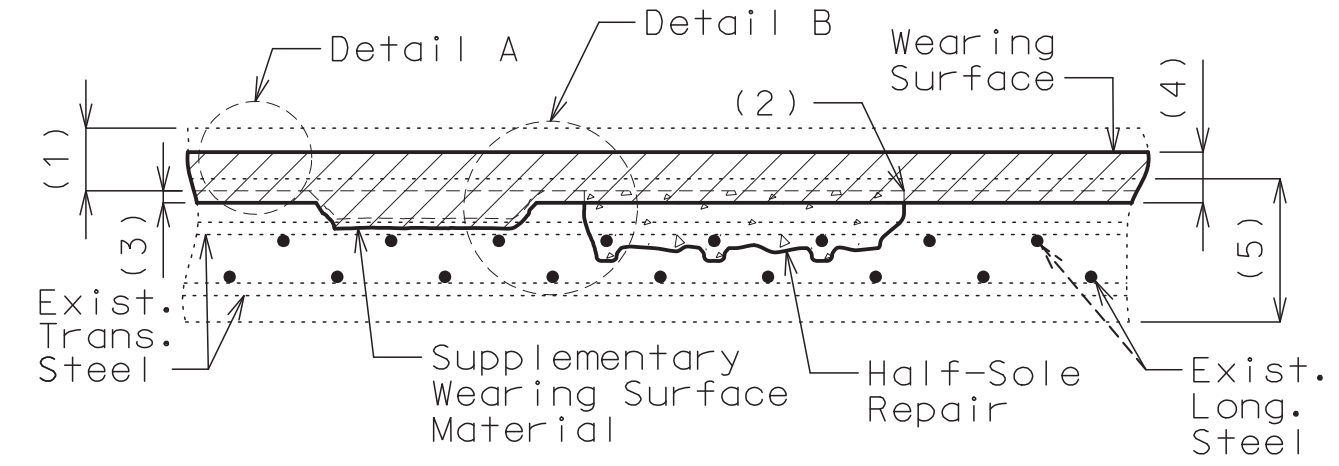
Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

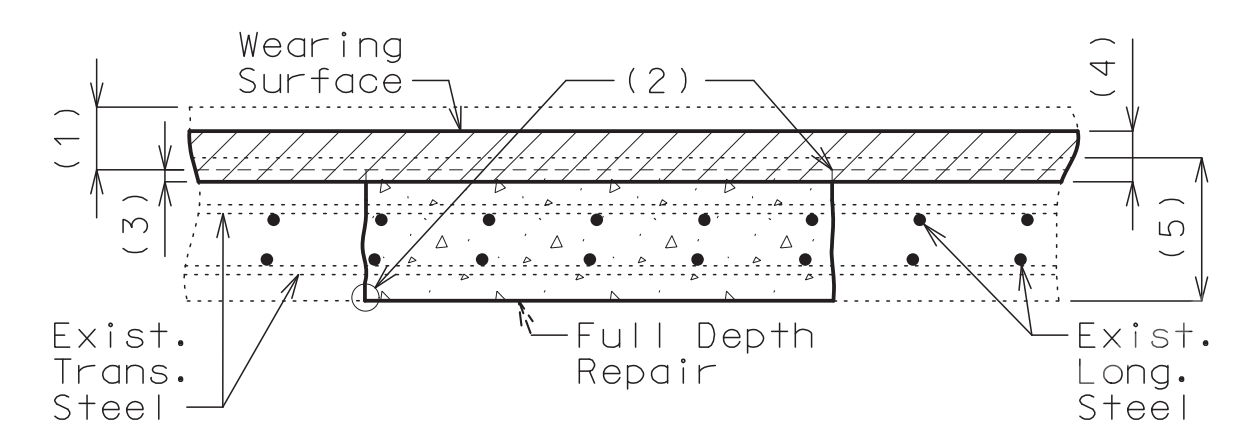
Sheet No. 7 of 7



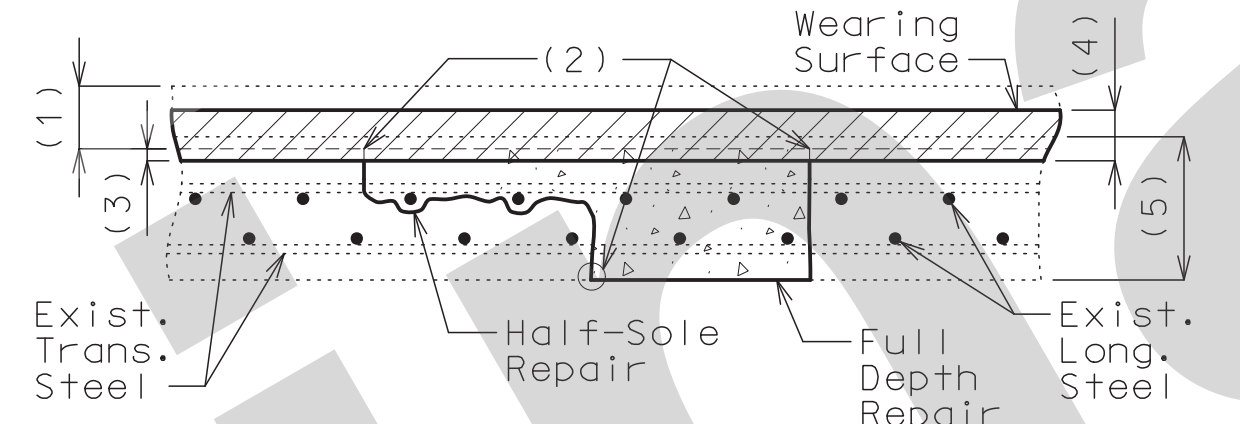
PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES



SUPP. WEARING SURFACE MATERIAL AND HALF-SOLE REPAIR

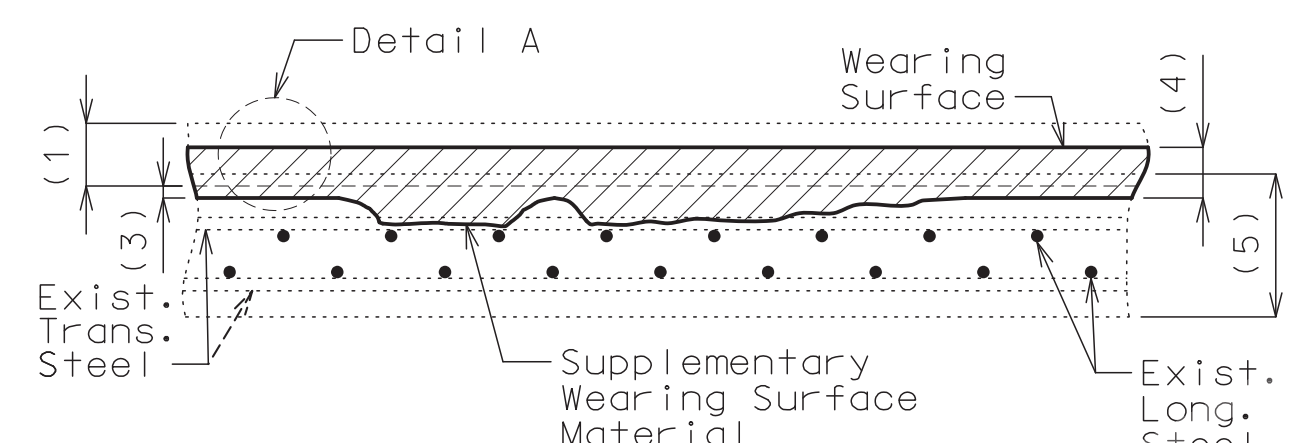


FULL DEPTH REPAIR

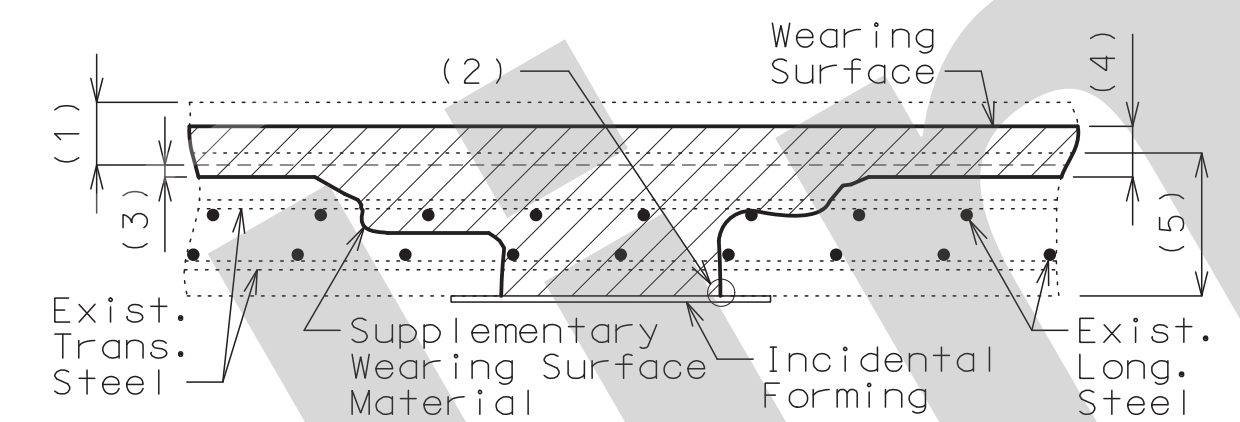


FULL DEPTH REPAIR WITH HALF-SOLE REPAIR

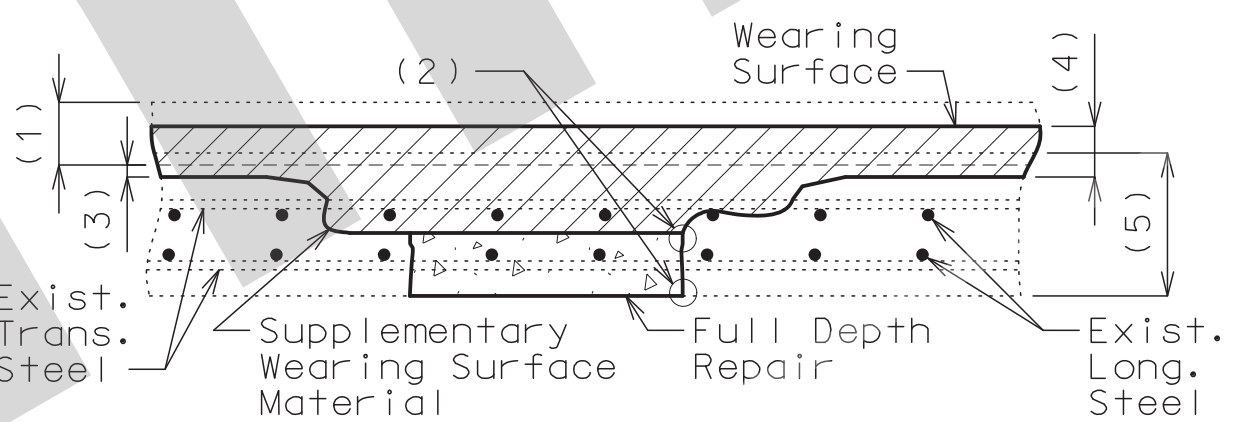
DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)



SUPPLEMENTARY WEARING SURFACE MATERIAL

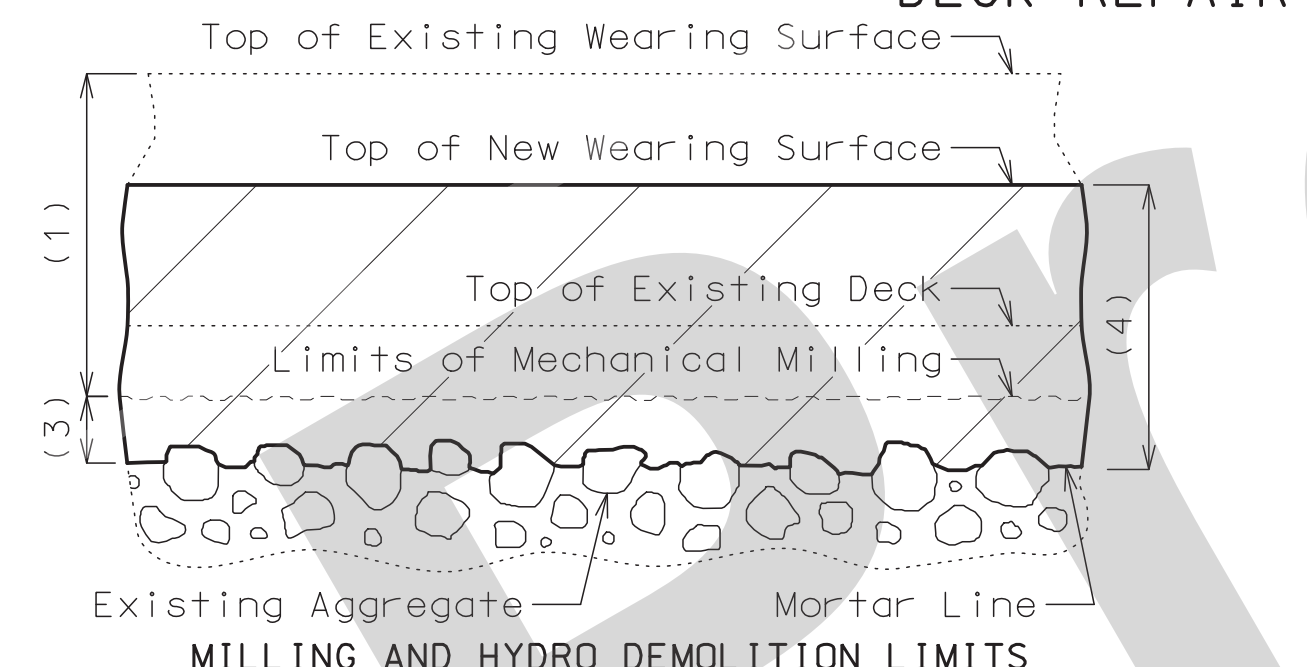


SUPPLEMENTARY WEARING SURFACE MATERIAL REQUIRING INCIDENTAL FORMING



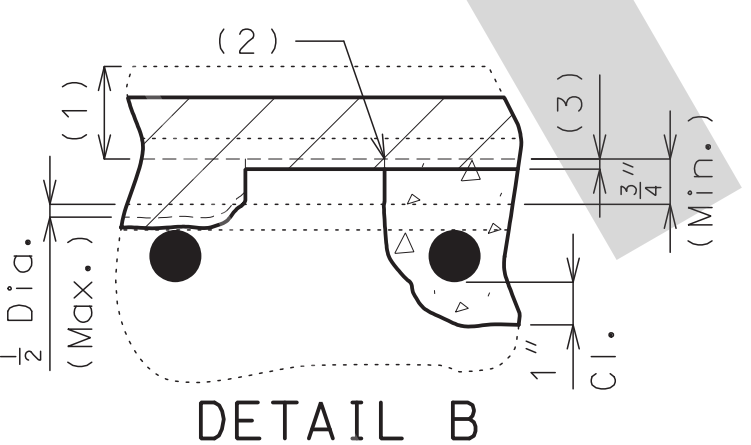
SUPPLEMENTARY WEARING SURFACE MATERIAL REQUIRING FULL DEPTH REPAIR

DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)



MILLING AND HYDRO DEMOLITION LIMITS
DETAIL A

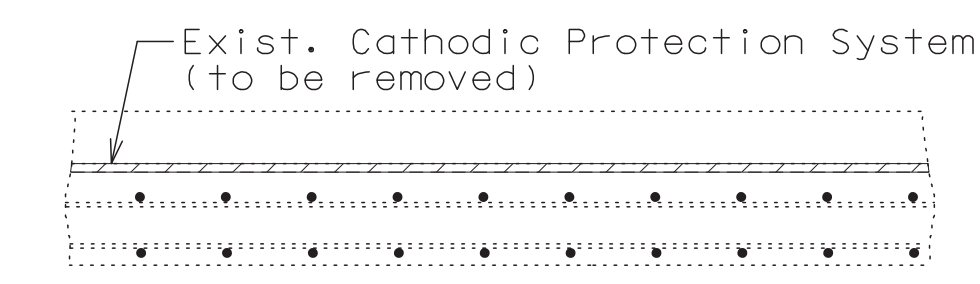
- (1) Removal of existing 1 3/4" ± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
1/4" minimum inside special repair zones
1/2" minimum outside special repair zones
- (4) Modified latex concrete wearing surface:
1 3/4" minimum inside special repair zones
2" minimum outside special repair zones
- (5) Original thickness of top slab minus previous scarification



DETAIL B

Supplementary Wearing Surface Material shall be used when only half the diameter or less of the top bar is exposed.

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.



DETAIL SHOWING REMOVAL OF CATHODIC PROTECTION SYSTEM

DECK REPAIR DETAILS

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
a. Removal of existing deck repair
b. Half-sole repair
c. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete full depth repair.
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

Total width of full depth repair shall not exceed 1/3 of the deck width at one time. For any area of deck repair that extends over a web and is more than 18 inches in length along the web, the concrete removal including removal with hydro demolition shall stop at the centerline of web and repair completed in this area. Prior to continuing work in this area, the concrete shall have attained a compressive strength of 3200 psi. No traffic shall be permitted over the web that is undergoing repair.

When the full depth repair extends over a diaphragm or web and the deteriorated concrete extends into the diaphragm or web, all deteriorated concrete shall be removed and replaced as full depth repair. Concrete in webs shall not be removed below the slab haunch of the girder without prior review and approval from the engineer.

Interior falsework installed by the contractor resting on the bottom slab shall be removed where entry access is available.

If any single repair area does not exceed 9 square feet in size and the total repair area within a special repair zone does not exceed 27 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Half-sole repair in the special repair zone, on either side of the intermediate bents, shall be to a depth that will not expose half the diameter of the longitudinal reinforcing bar. Full depth repair shall be made when removal of deteriorated concrete exposes half or more of the diameter of the longitudinal reinforcing bar.



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10803	

DESCRIPTION	DATE

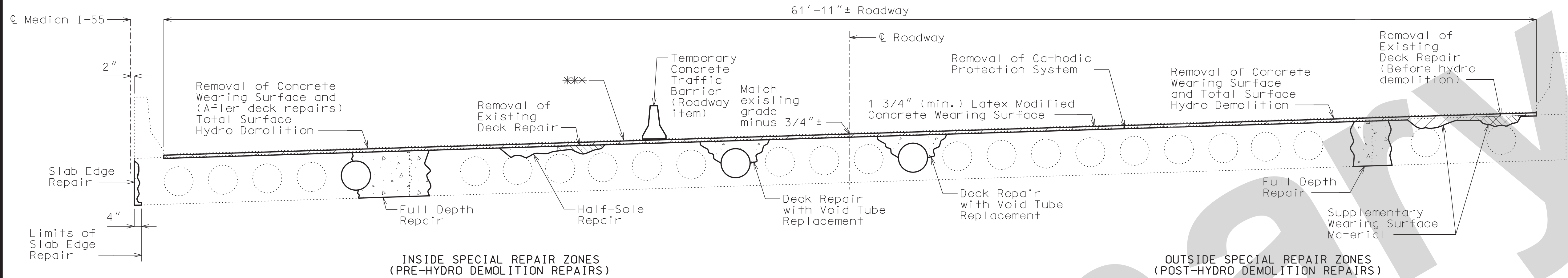
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
1323 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

U.I.P. AND REHABILITATE EXISTING (38'-55'-55'-38') CONTINUOUS CONCRETE VOIDED SLAB SPANS
(SKEW: 28°32'40" L.A.)

SEC/SUR 4 TWP 44N RGE 7E



TYPICAL SECTION THRU EXISTING DECK
*** Removal of Raised Pavement Markers (RPM) included in the cost of Removal of Concrete Wearing Surface.

DETAIL SHOWING REMOVAL OF RAISED PAVEMENT MARKERS

General Notes:

Design Specifications:

2002 AASTHO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:

H20-44 (1961) and HS20-44 Modified (1983) and Military 24,000 lb Tandem Axle (1983)

Design Unit Stresses:

Class B-1 Concrete (Barrier, Half-Sole and Full Depth Repair) $f'c = 4,000$ psi
Class B-2 Concrete (Approach Notch) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710 except that no measurement will be made for mechanical bar splices and they will be considered completely covered by the contract unit price for other items.

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (Roadway item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:

Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	1,299
Removal of Concrete Wearing Surface	sq. foot	11,694
Removal of Existing Deck Repair	sq. foot	910
* Removal of Cathodic Protection System	lump sum	1
Removal of Existing Approach Notch	linear foot	124
Bridge Approach Slab (Major)	sq. yard	281
* Supplementary Wearing Surface Material	cu. yard	9
Latex Modified Concrete Wearing Surface	sq. yard	1,299
* Diamond Grinding	sq. yard	1,299
Penetrating Concrete Sealer	sq. yard	139
Class B-2 Concrete	cu. yard	3.4
Median Barrier Transition (Type B)	linear foot	40
Substructure Repair (Formed)	sq. foot	100
Substructure Repair (Unformed)	sq. foot	50
Half-Sole Repair	sq. foot	350
Full Depth Repair	sq. foot	150
Slab Edge Repair (Bridges)	linear foot	10
Deck Repair with Void Tube Replacement	sq. foot	1,150
Curb Repair (Formed)	linear foot	10
Reinforcing Steel (Epoxy Coated)	pound	930
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1

* Supplementary wearing surface material will be paid for at the fixed unit price in accordance with Sec 109.
** See Special Provisions



DATE PREPARED 8/5/2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS CITY

JOB NO. J6I3149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10823

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

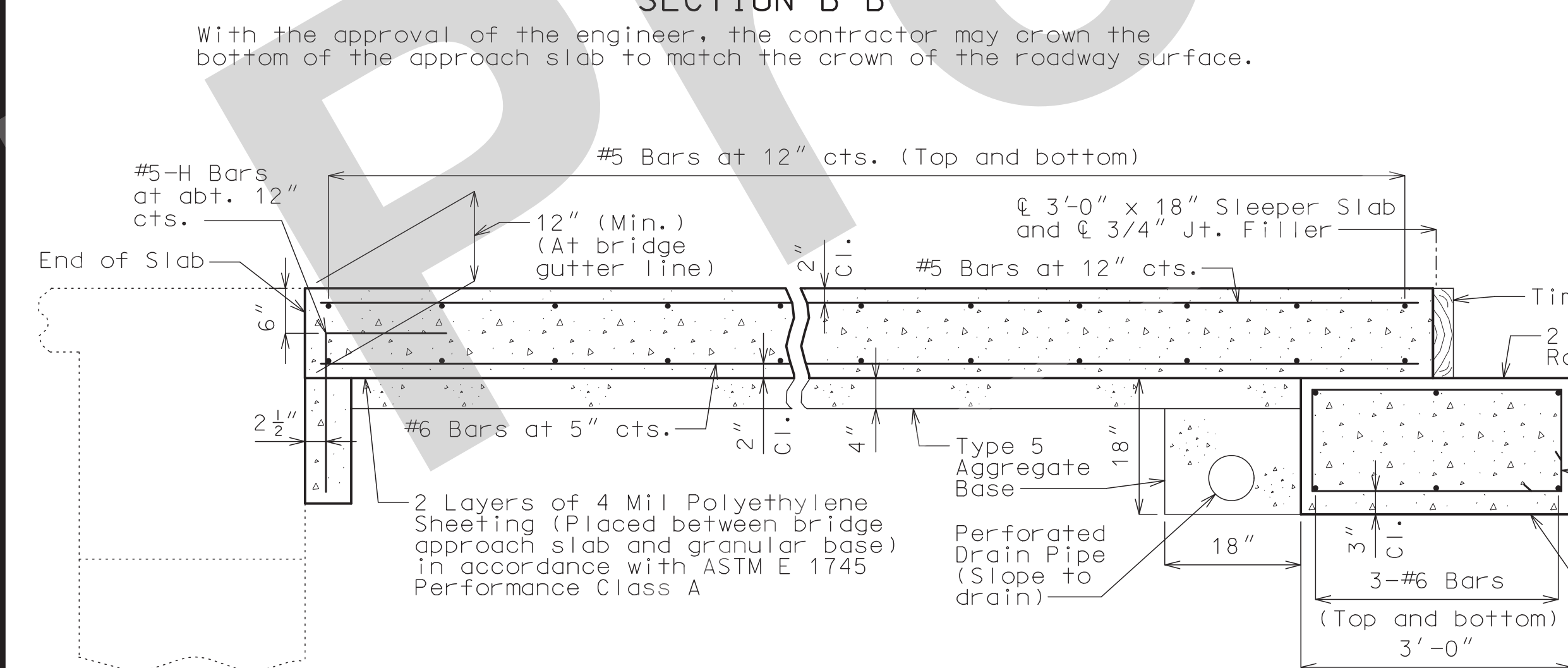
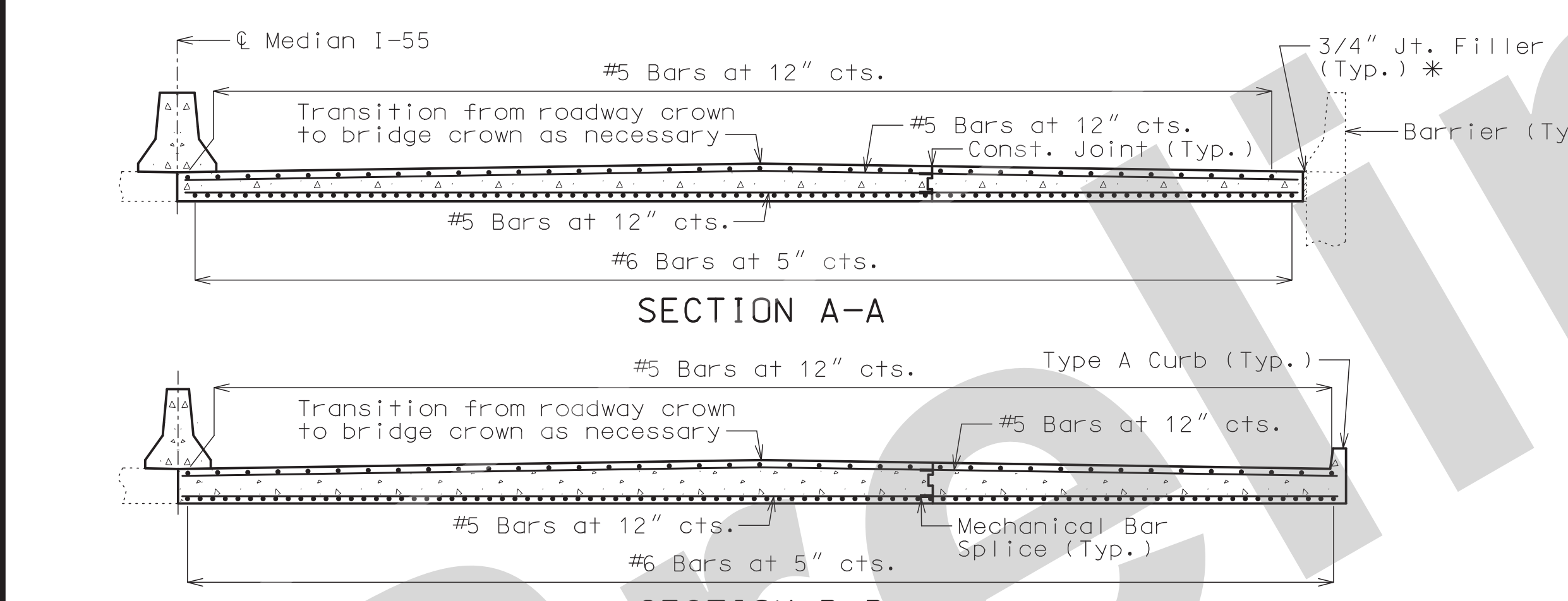
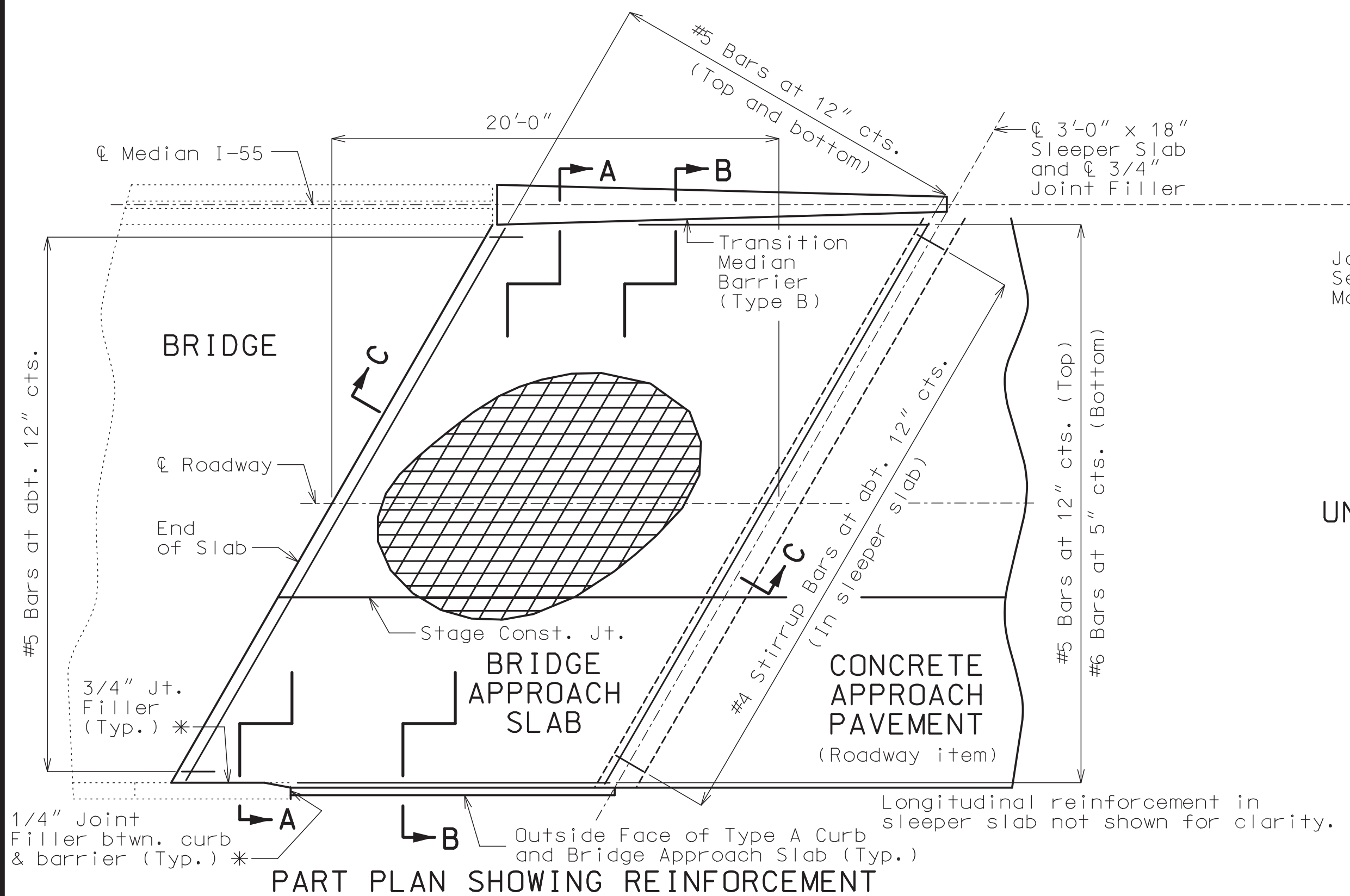
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

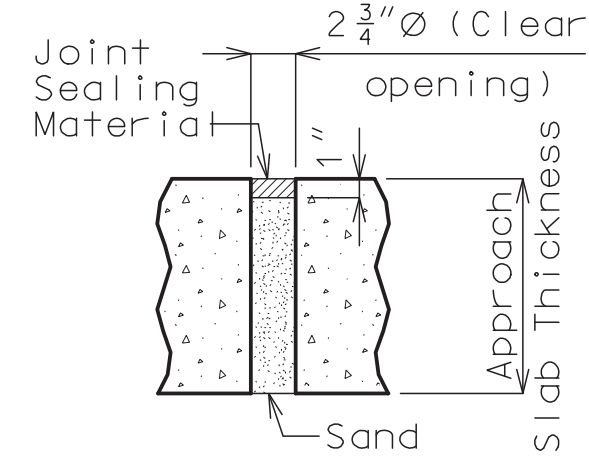
Missouri Certificate of Authority: 001578

REPAIRS TO BRIDGE: I-55 N.B. OVER 4500 S. BROADWAY ST.

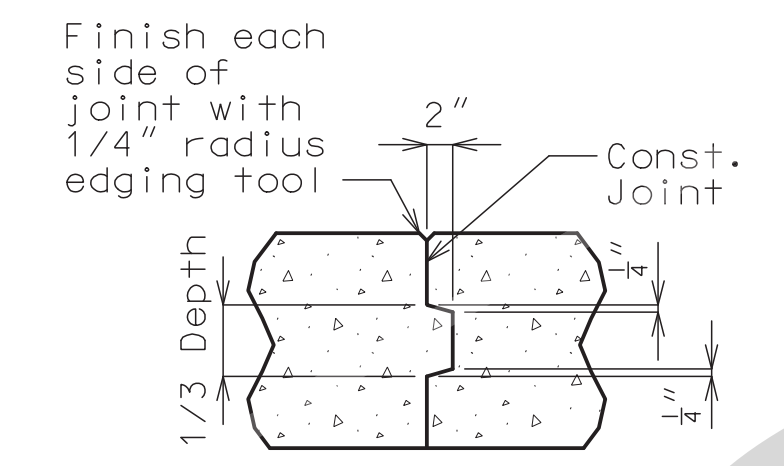
I-55 FROM I-255 TO I-44 ABOUT 7.9 MILES N OF I-255 BEGINNING STATION 603+16.43± (Match Existing)



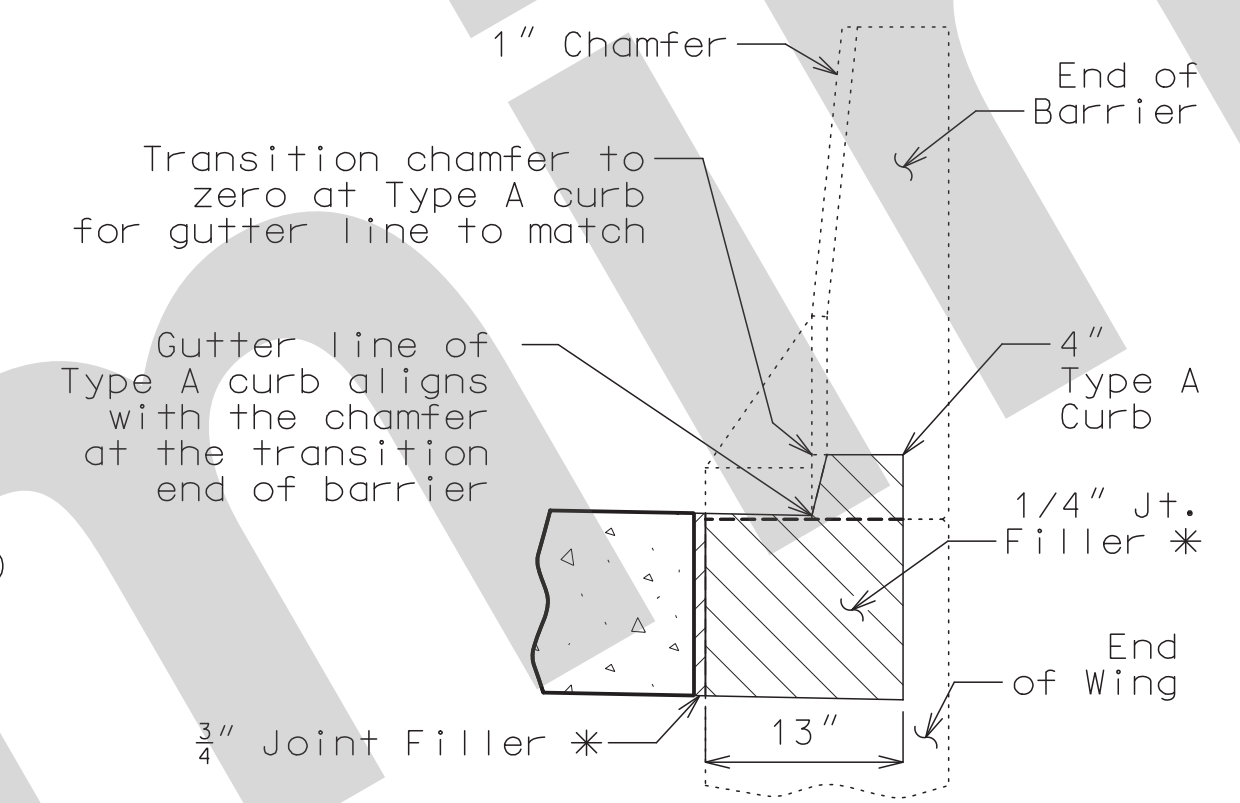
SECTION C-C
Note: New wearing surface not shown for clarity.



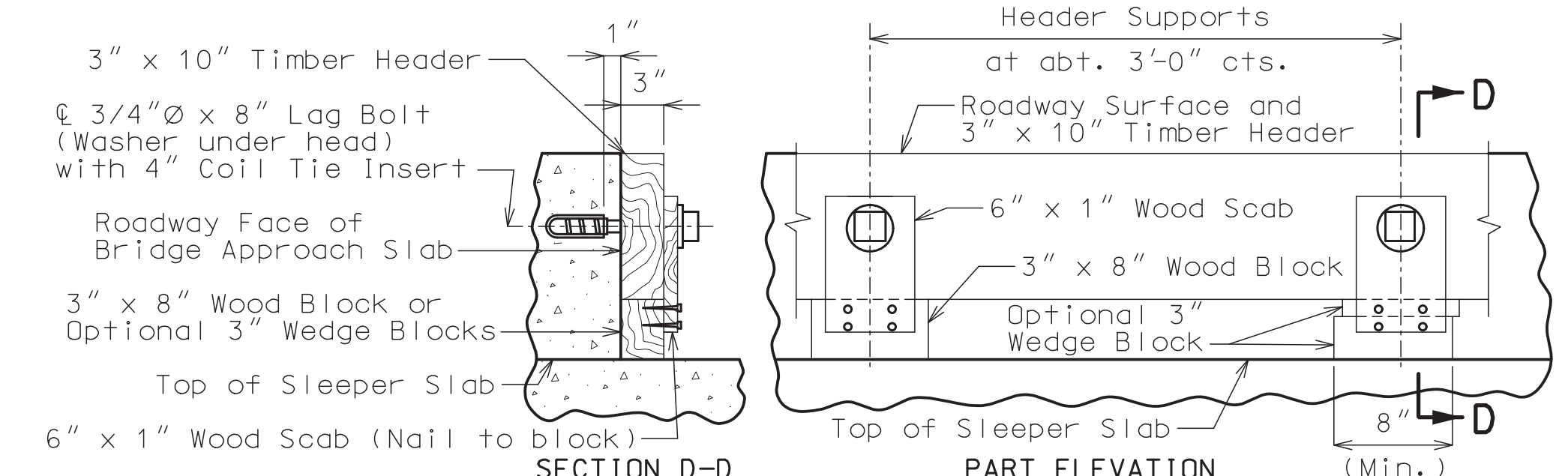
UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER
Remove timber header when concrete pavement is placed.

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 50± splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

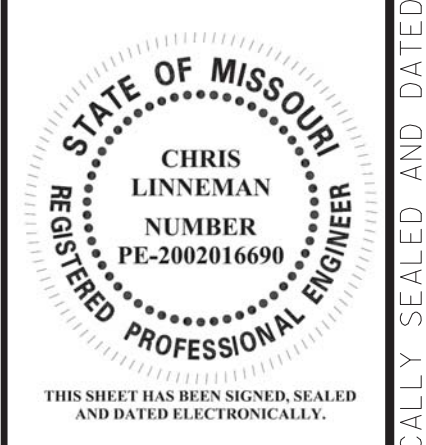
For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.

BRIDGE APPROACH SLAB (MAJOR)

Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 7



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10823	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
1323 Barrett Parkway Dr, Suite 250
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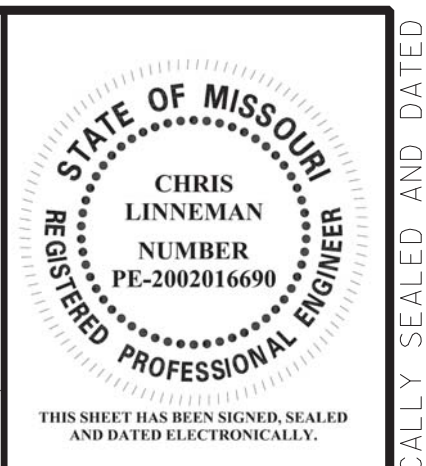
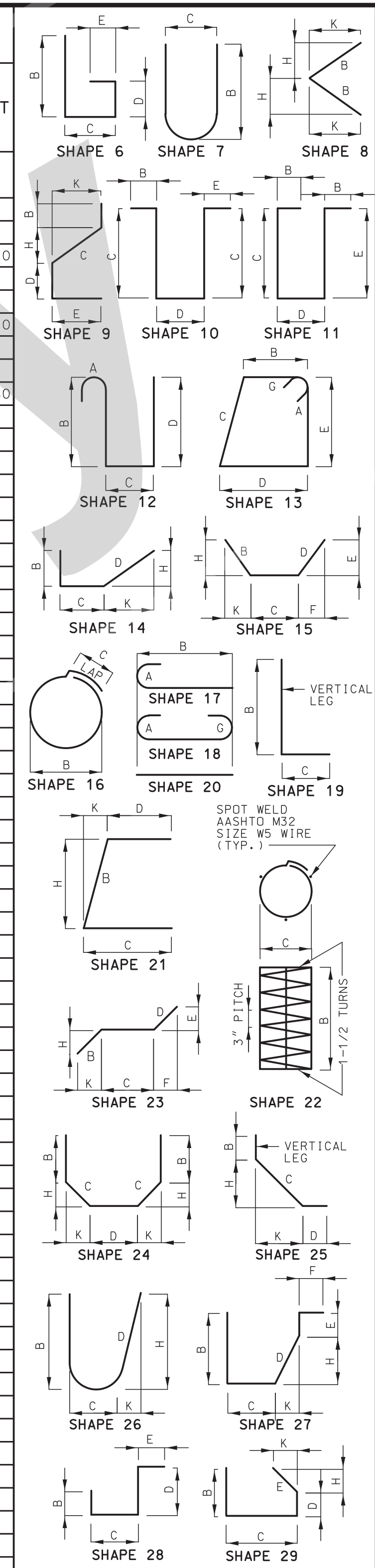
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B		C		D		E		F		H		K					
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.
124	5 H1	Appr. Notch	E 19						2	4.000	0	15.000							3	7	3	5			442	
12	5 H2	Appr. Notch	E 20						39	0.000									39	0	39	0			488	
		MEDIAN																								
16	5 M9	Median	E 20						19	9.000									19	9	19	9			330	
84	5 M10	Median	E 14								3.500	2	6.000			2	5.000	2.000	2	10	2	8			234	

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS														NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B		C		D		E		F		H		K					
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.
		TOTALS																								1490
		REINFORCING STEEL (EPOXY COATED)																								930
		MEDIAN																								560



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS CITY
JOB NO. J6I3149
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10823

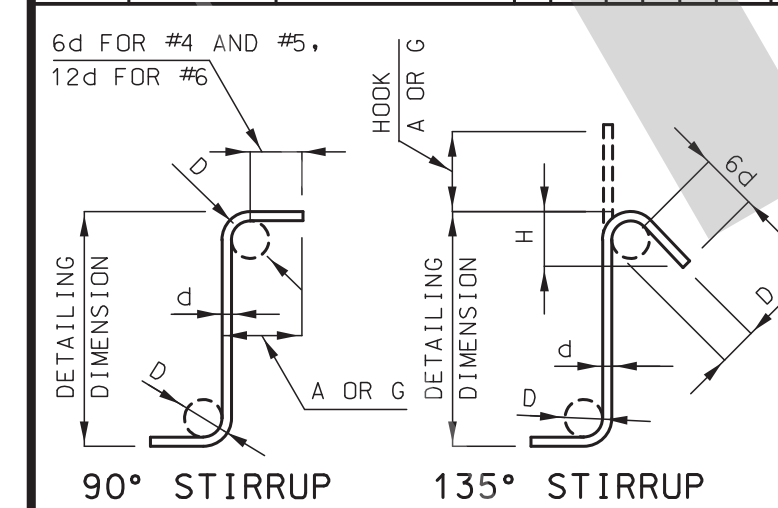
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

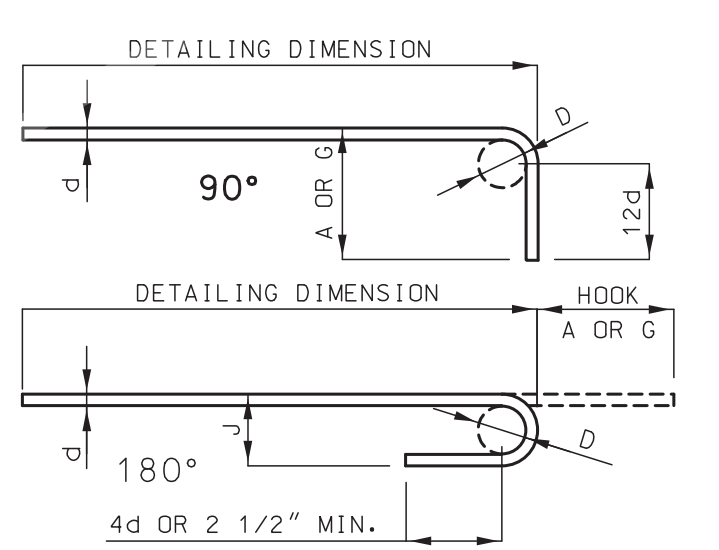
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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314-594-5100
Missouri Certificate of Authority: 001578



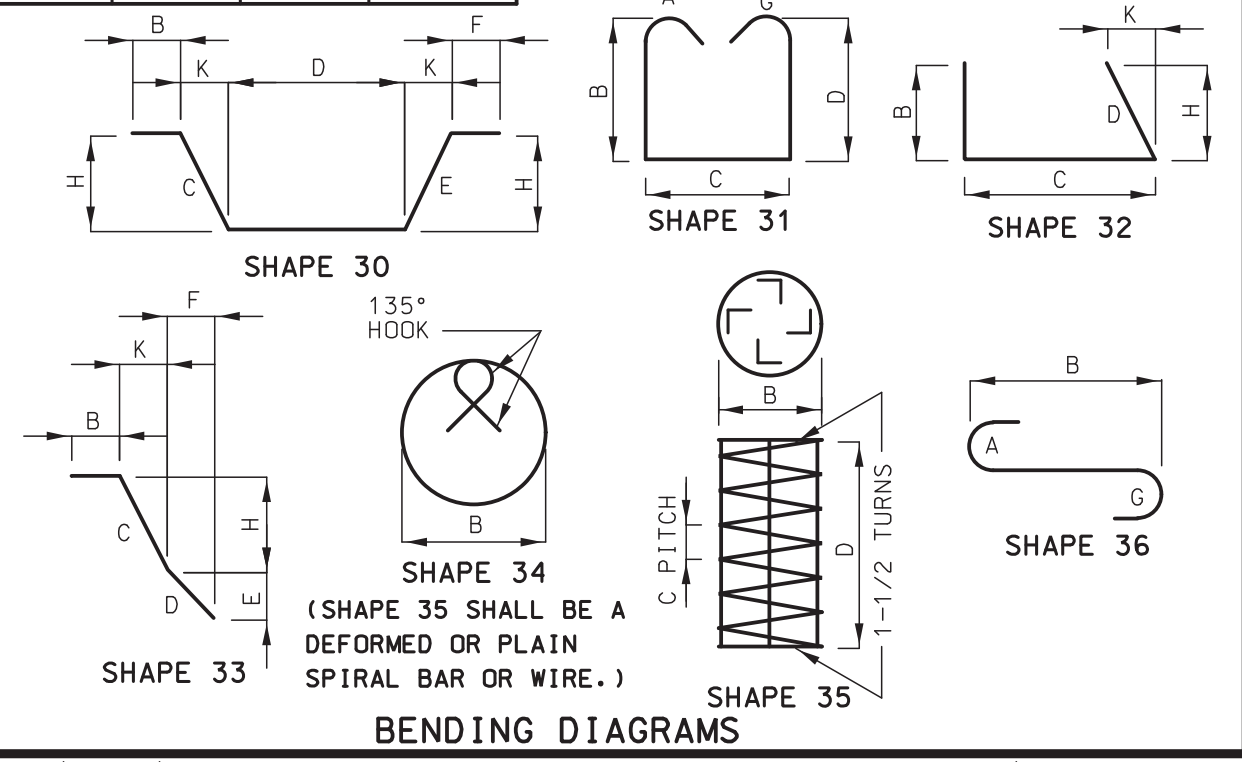
BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		A OR G	H	A OR G	H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	ALL GRADES			
		180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	H
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

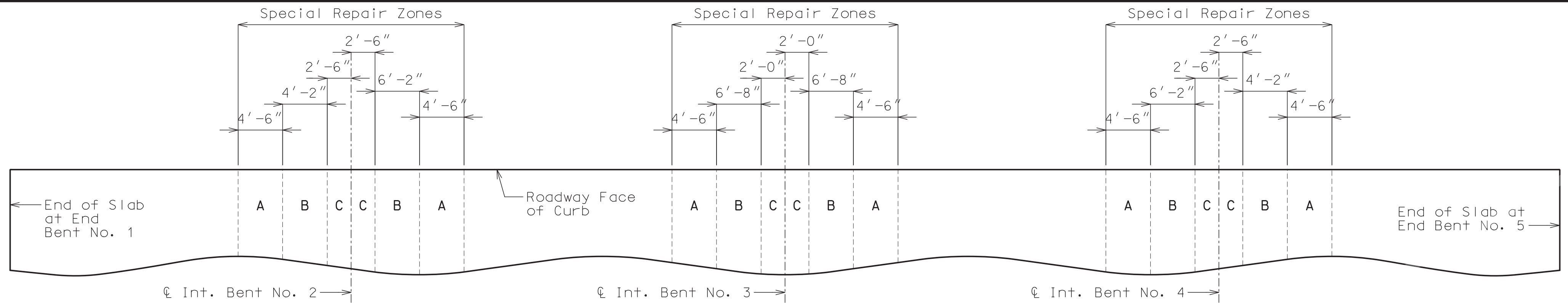
NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.



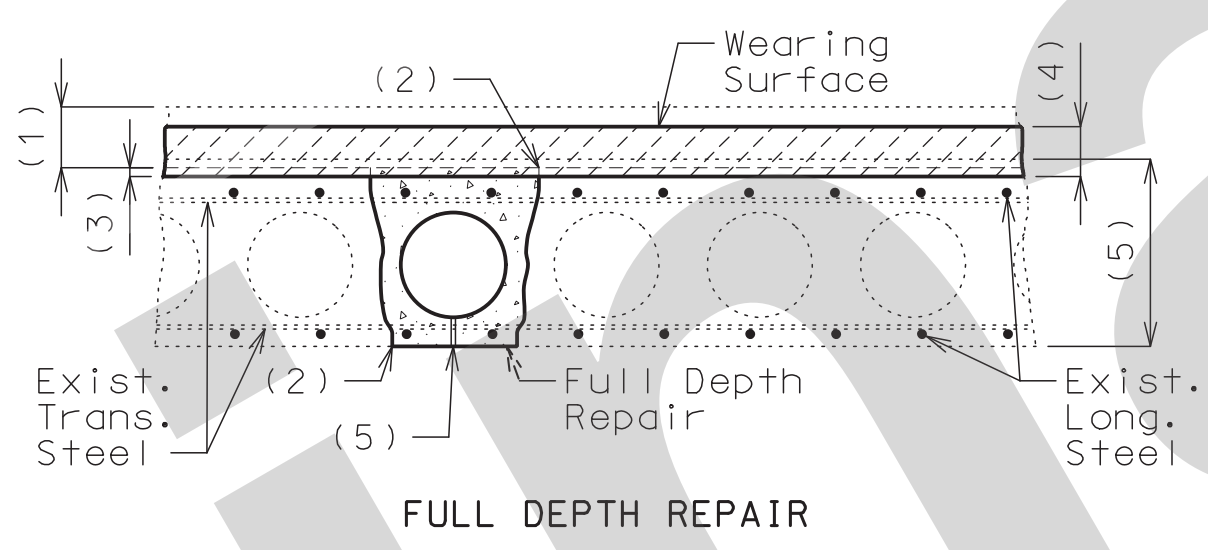
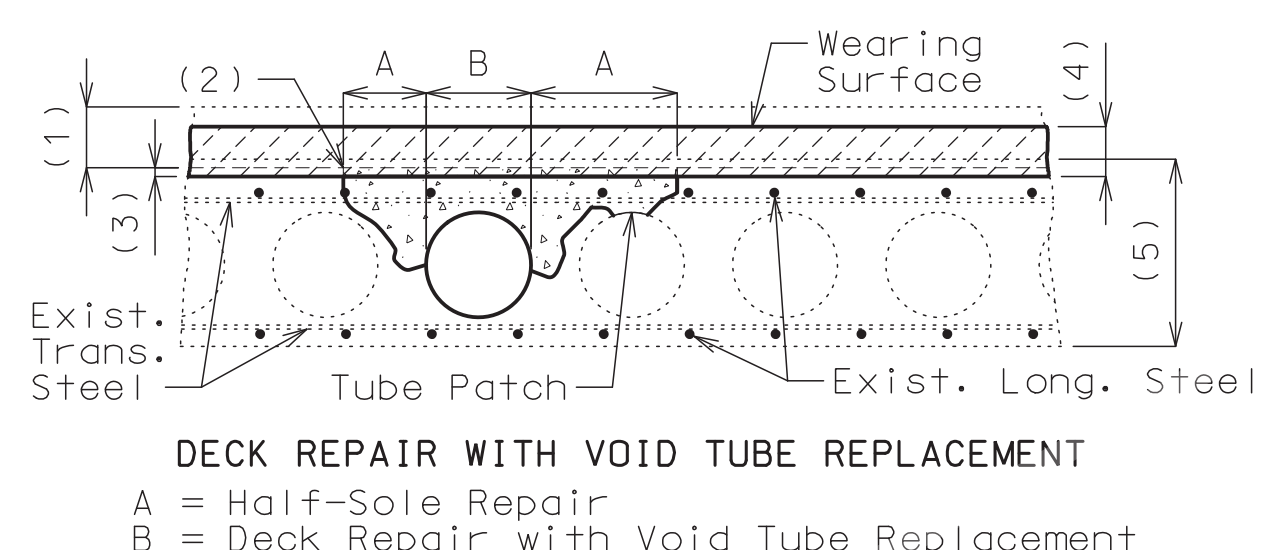
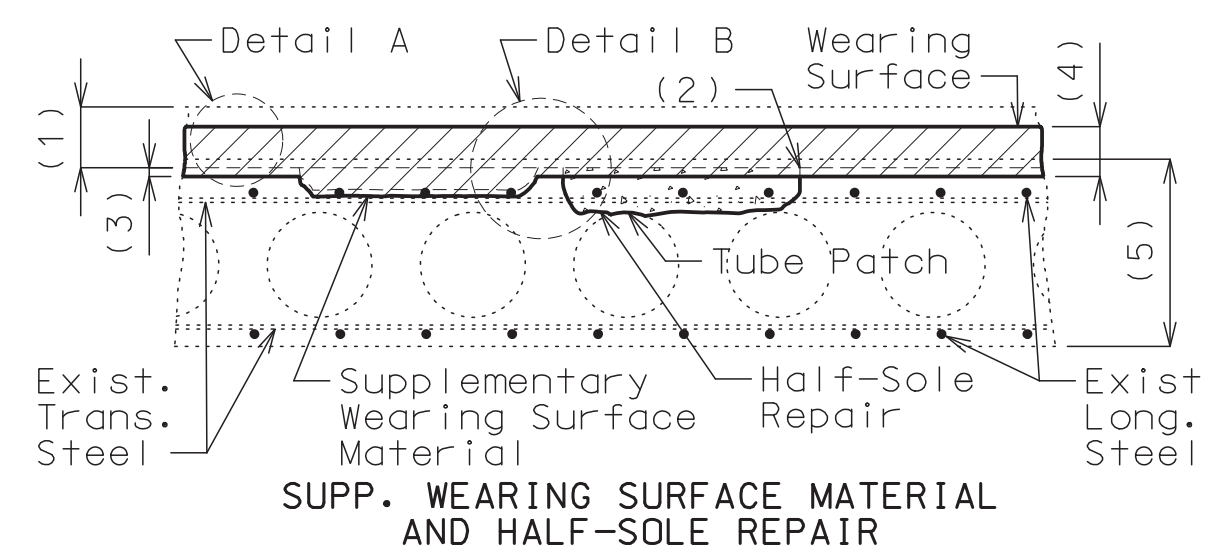
Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

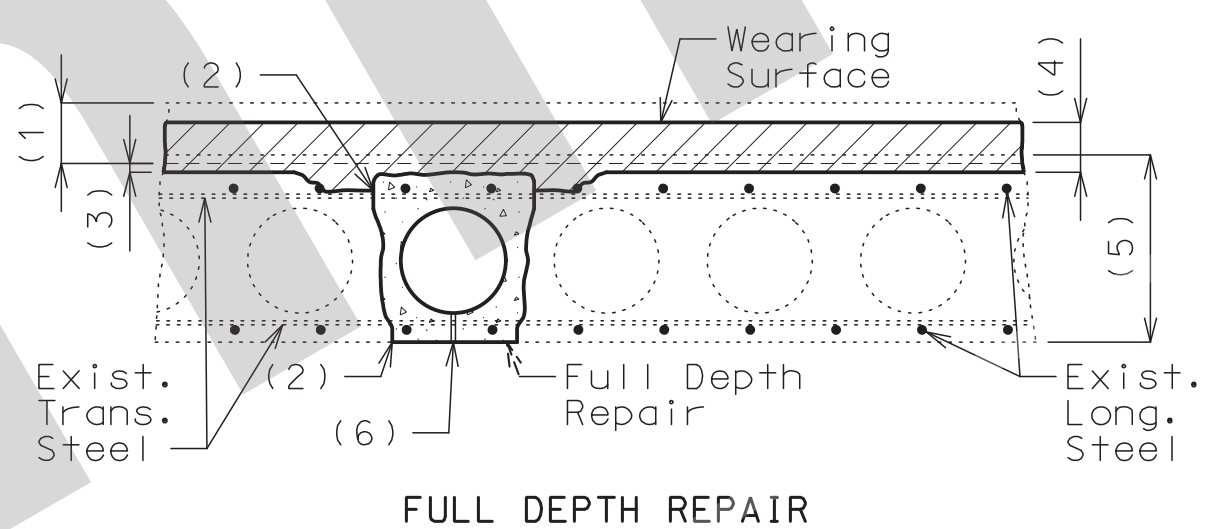
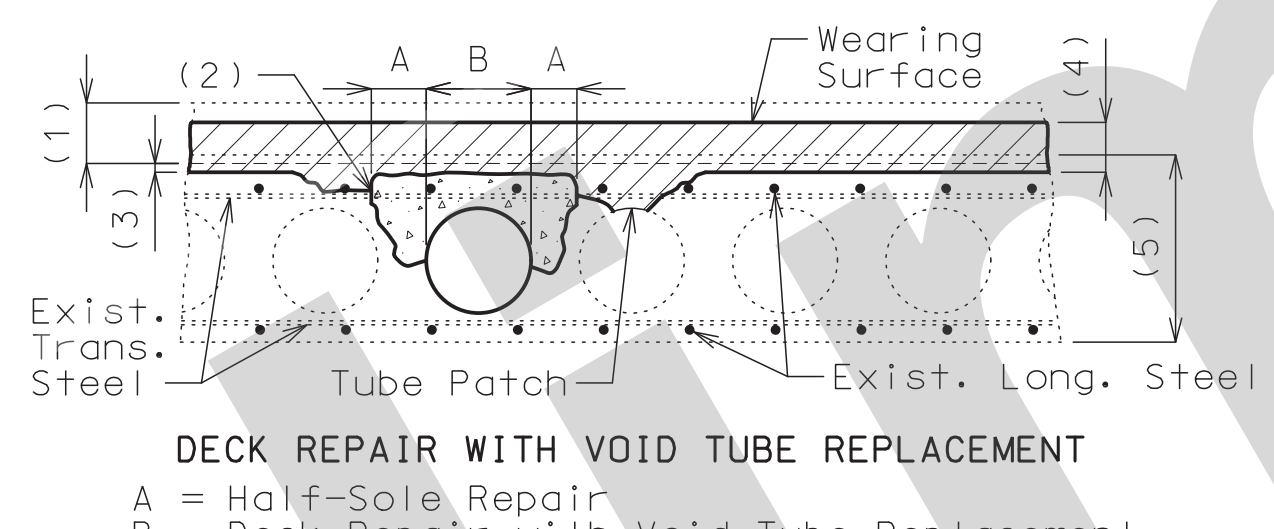
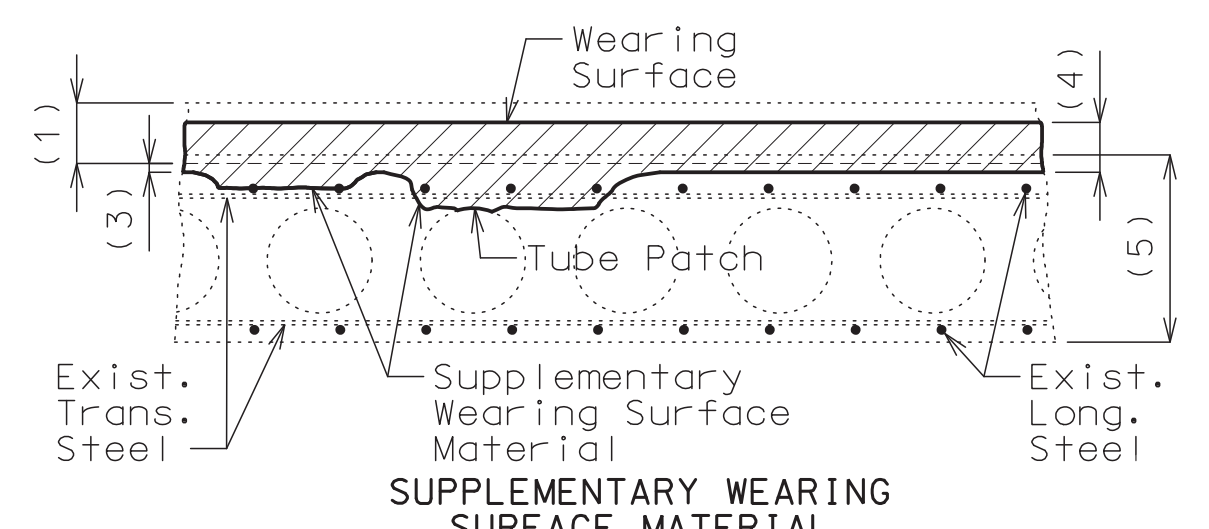
Sheet No. 7 of 7



PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES



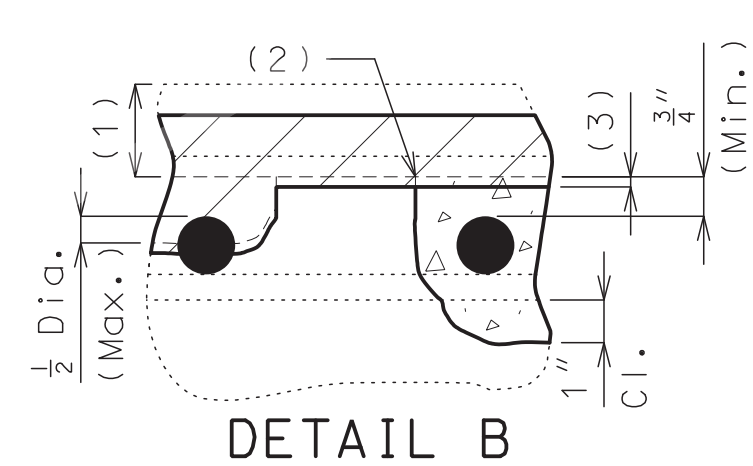
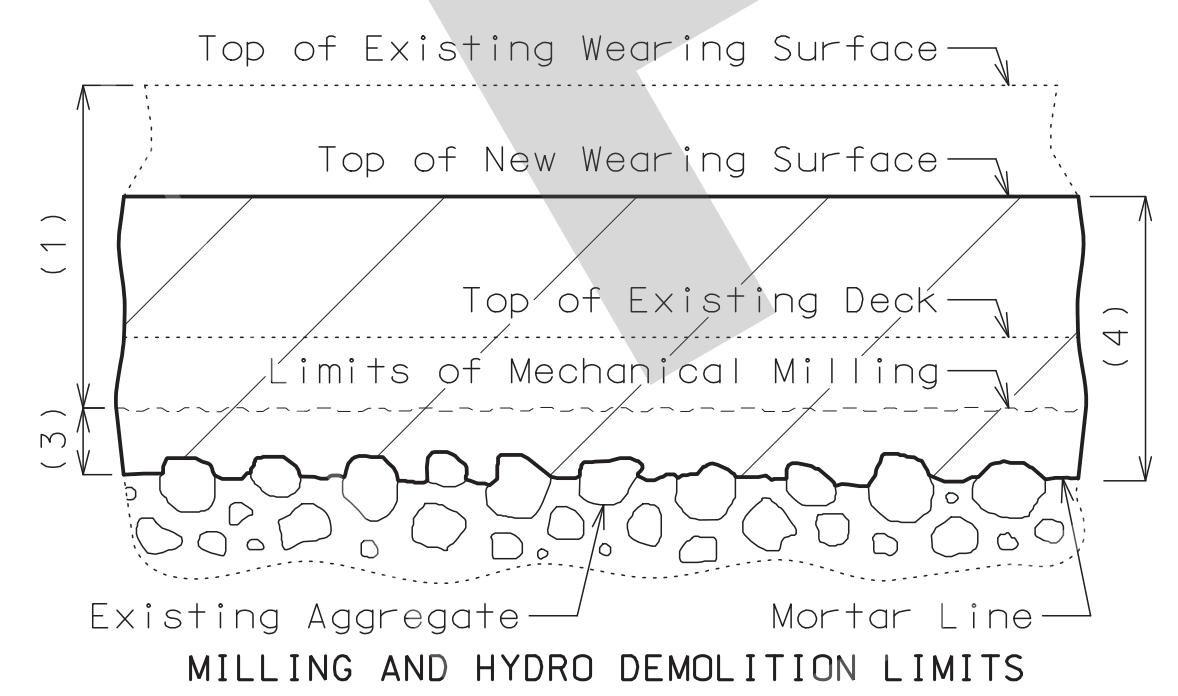
DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)



DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)

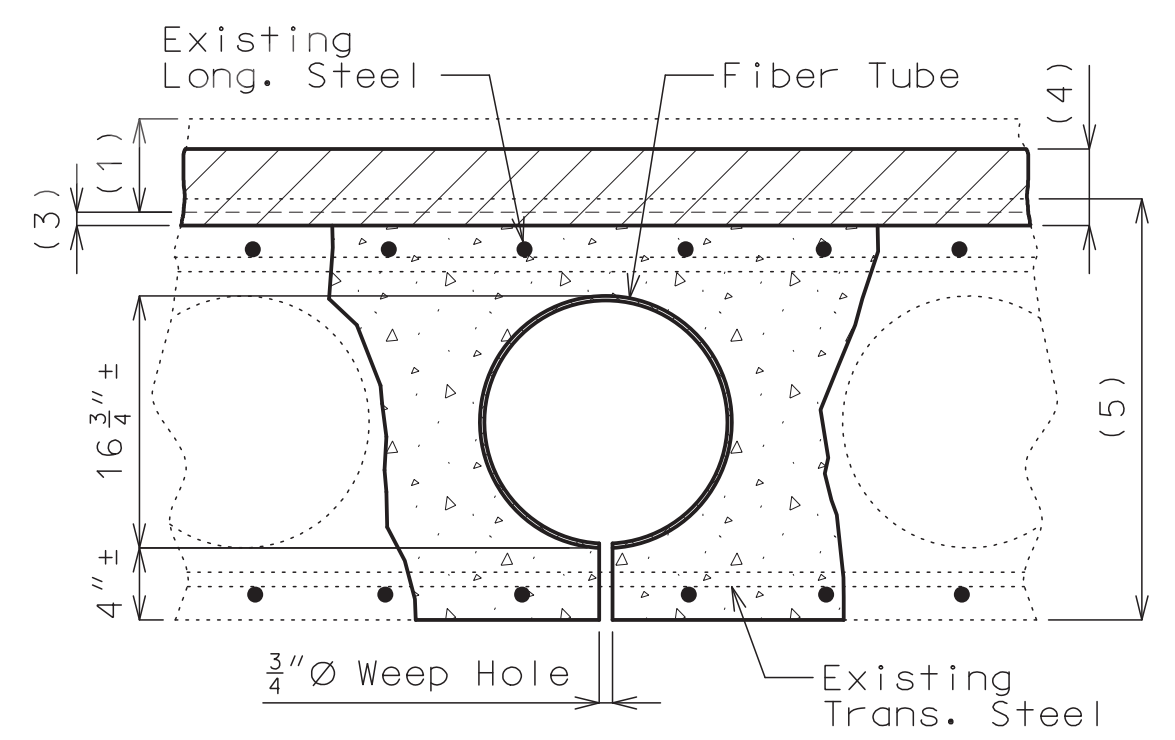


- (1) Removal of existing 1 3/4"± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
 1/4" minimum inside special repair zones
 1/2" minimum outside special repair zones
- (4) Modified Latex concrete wearing surface:
 1 3/4" minimum inside special repair zones
 2" minimum outside special repair zones
- (5) Original depth minus previous scarification
- (6) Restore existing weep hole, if encountered.



Supplementary Wearing Surface Material shall be used when only half the diameter or less of the top bar is exposed.

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.



FIBER VOID TUBE REPLACEMENT

Fiber tubes for producing voids shall have an approximate outside diameter of 16 3/4 inches and a wall thickness of 1/4 inch and shall be anchored to joists carrying the floor form at not more than 4-foot centers.

One 3/4"Ø weep hole shall be provided at 2 inches from each end of each new void.

DECK REPAIR DETAILS

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
 - a. Removal of existing deck repair
 - b. Half-sole repair
 - c. Deck repair with void tube replacement
 - d. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
 - a. Deck repair with void tube replacement
 - b. Full depth repair
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

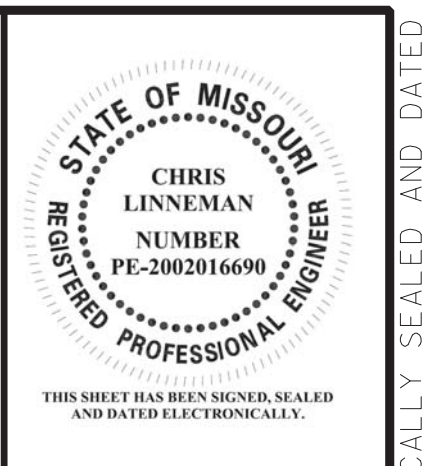
If any single repair area does not exceed 4 square feet in size and the total repair area within a special repair zone does not exceed 12 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Void Repair:

Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as required by the engineer at the contractor's expense.

An exposed void in the deck shall be patched as approved by the engineer in a manner that shall maintain the void area completely free of concrete. Cost of patching an exposed void will be considered completely covered by the contract unit price for Half-Sole Repair inside special repair zones and Monolithic Deck Repair outside special repair zones.

When a deteriorated portion of the void tube is beyond the point of patching as determined by the engineer, the portion of the deteriorated void tube shall be replaced. The void area shall be maintained completely free of concrete. Cutting of the longitudinal reinforcing steel will not be permitted. The fiber tubes for producing the voids shall have an outside diameter with the wall thickness the same as the existing tubes and anchored at not more than the original spacing. Cost of replacing the void tube will be considered completely covered by the contract unit price for Deck Repair with Void Tube Replacement. Measurement will be horizontal projection of the area of exposed tube in plan.



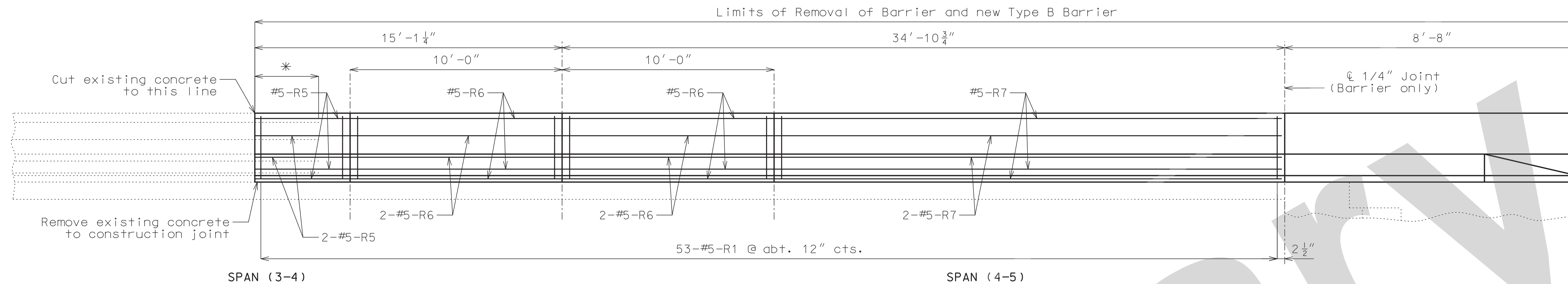
DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10824	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr., Suite 250
St. Louis, MO 63021
314-5945100
Missouri Certificate of Authority: 001578

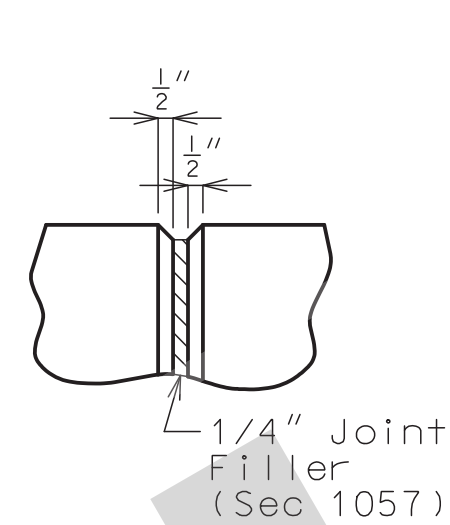


SPAN (3-4)

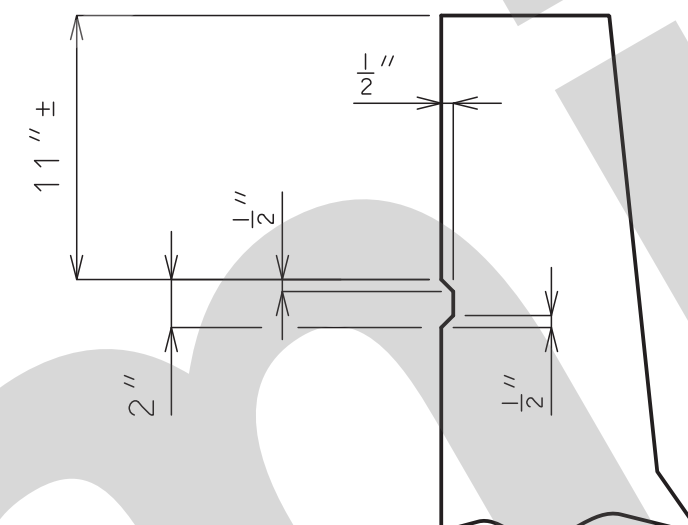
SPAN (4-5)

PART ELEVATION OF LEFT BARRIER

* Extend existing bars 2'-3" into new concrete
Rustication not shown for clarity.

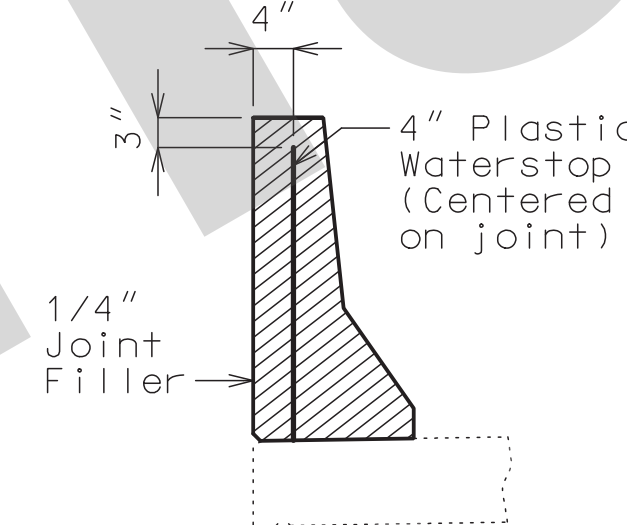


PART ELEVATION AT FORMED JOINT



RUSTICATION DETAIL

Note: Dimensions provided for information only, match existing rustication.



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

General Notes:

Top of barrier shall be built parallel to grade with barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

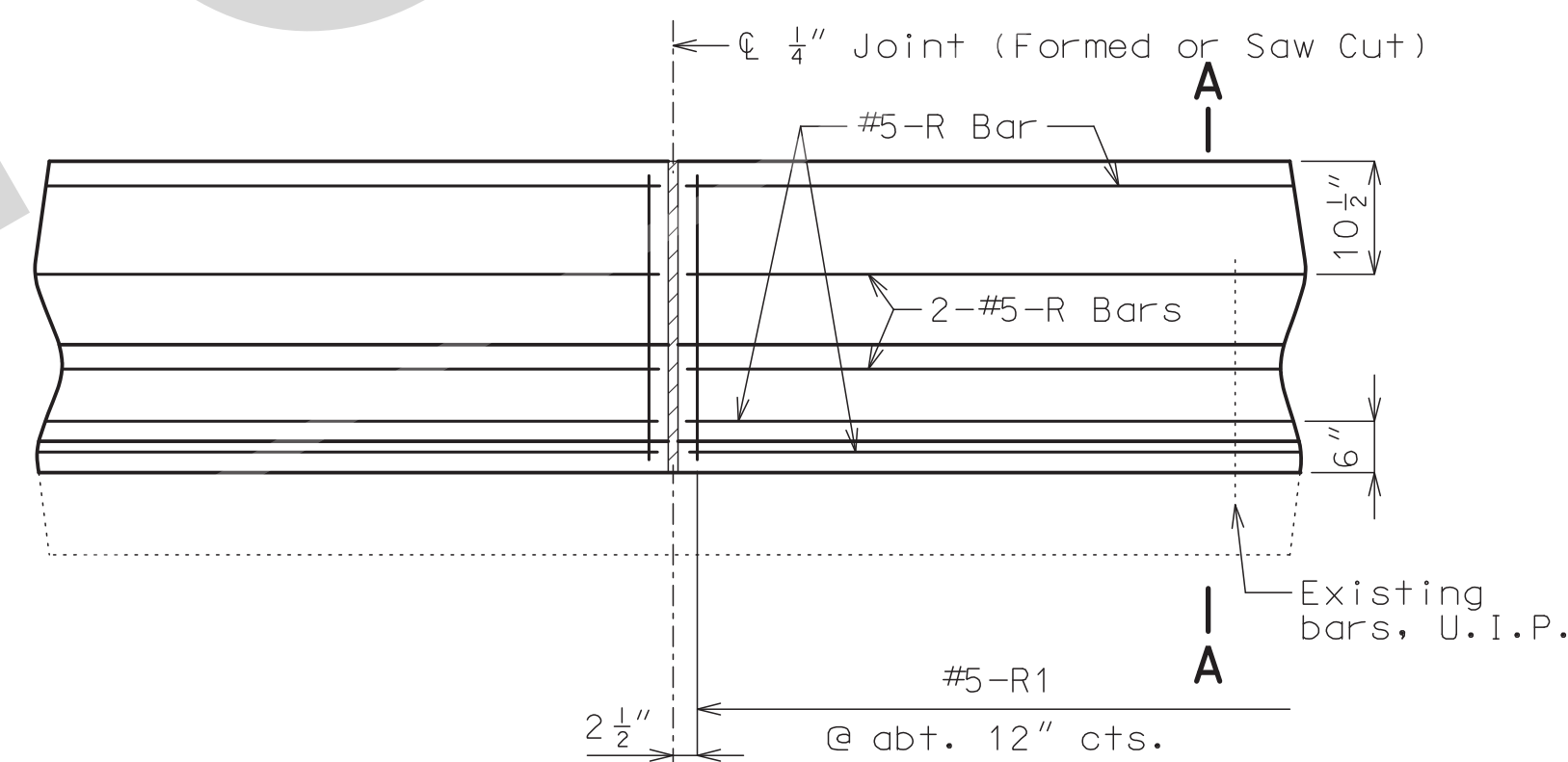
Concrete in the barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.

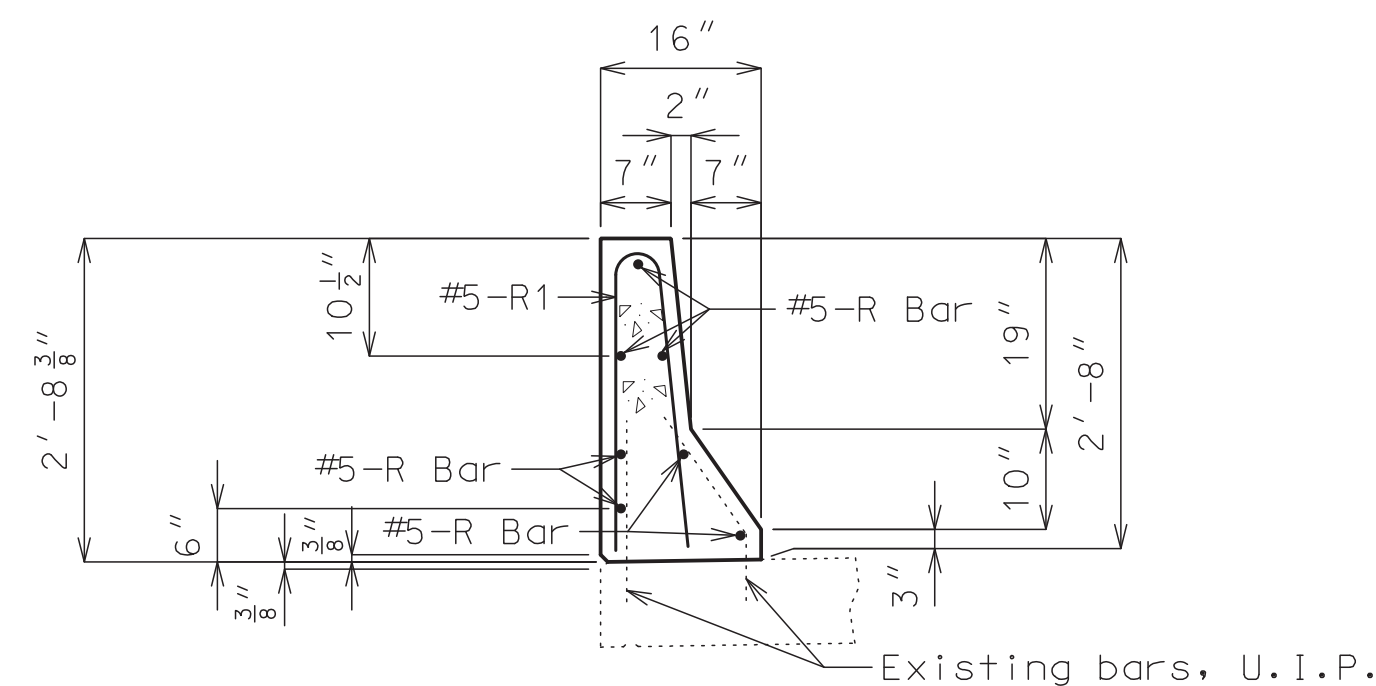
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER



SECTION A-A

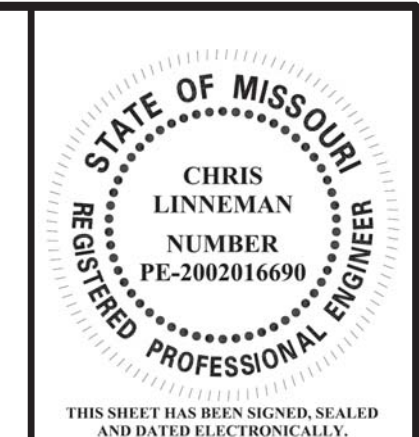
Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.27 square feet.

LEFT TYPE B BARRIER

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 8



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS CITY

JOB NO. J6I3149

CONTRACT ID.

PROJECT NO.

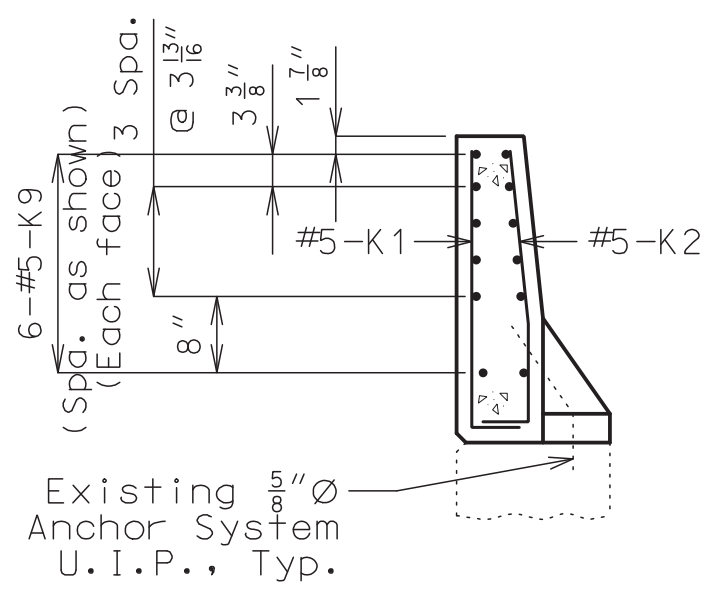
BRIDGE NO. A10824

DATE	DESCRIPTION

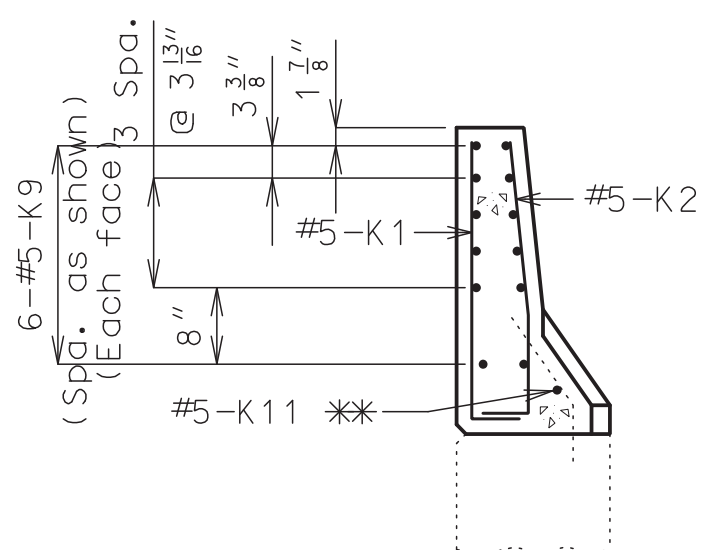
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

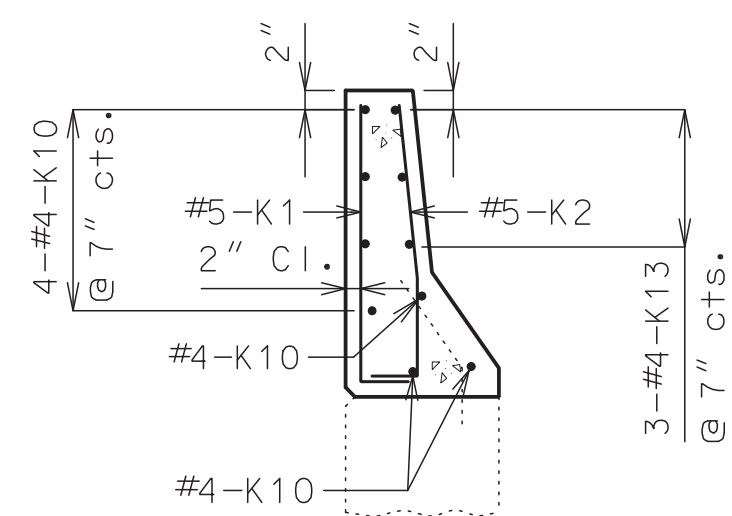
EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578



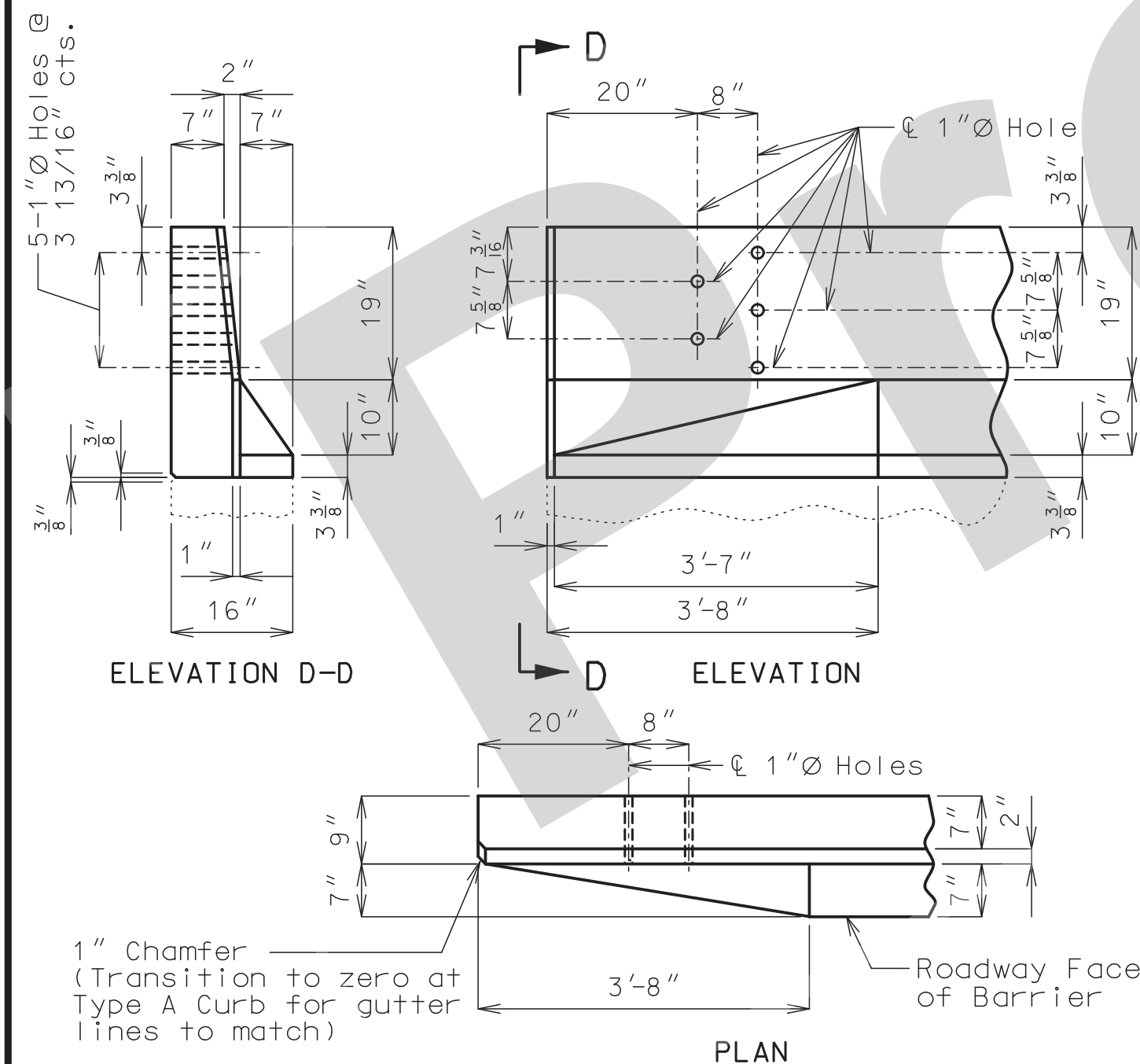
SECTION A-A



SECTION B-B

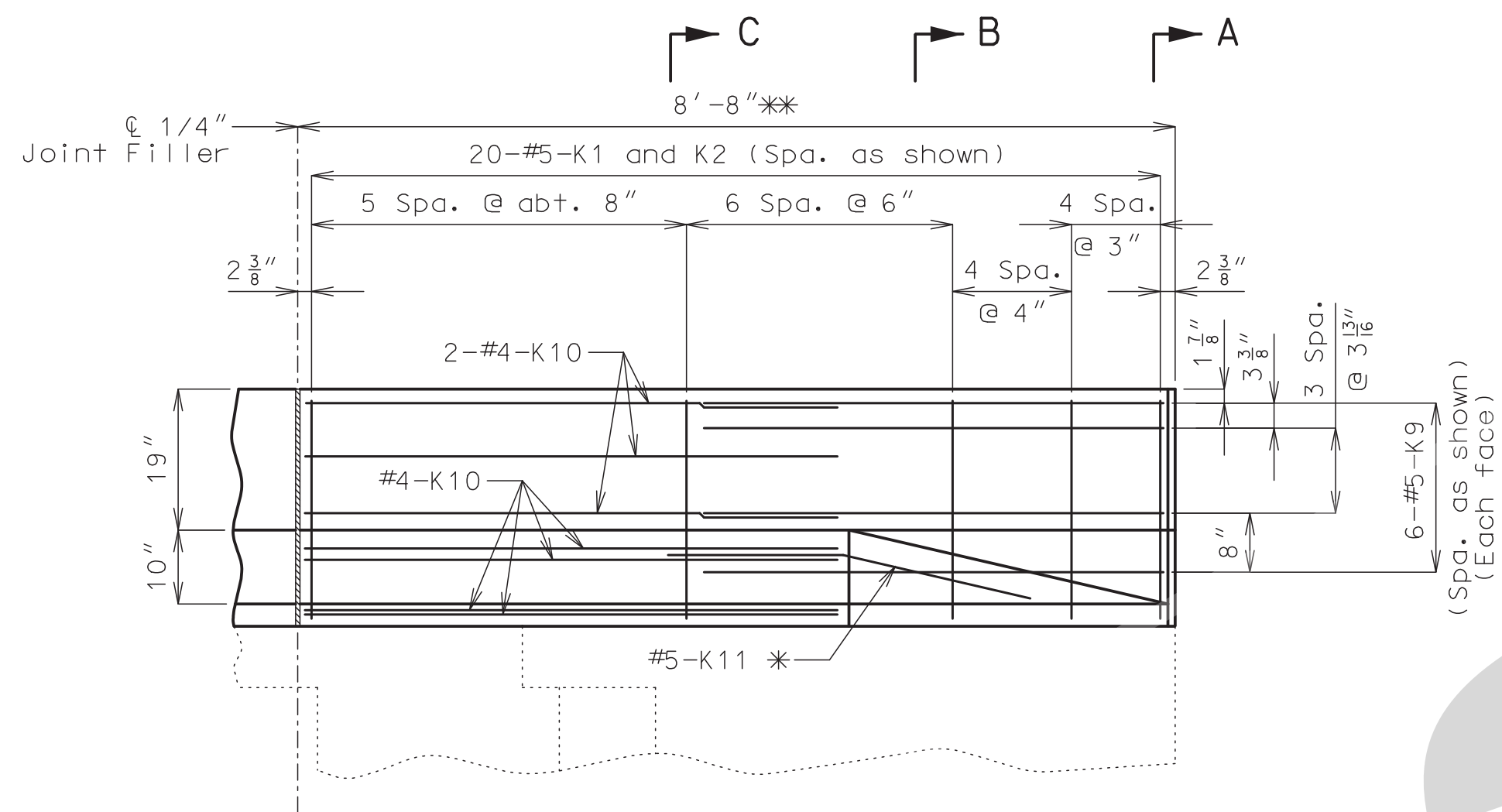


SECTION C-C



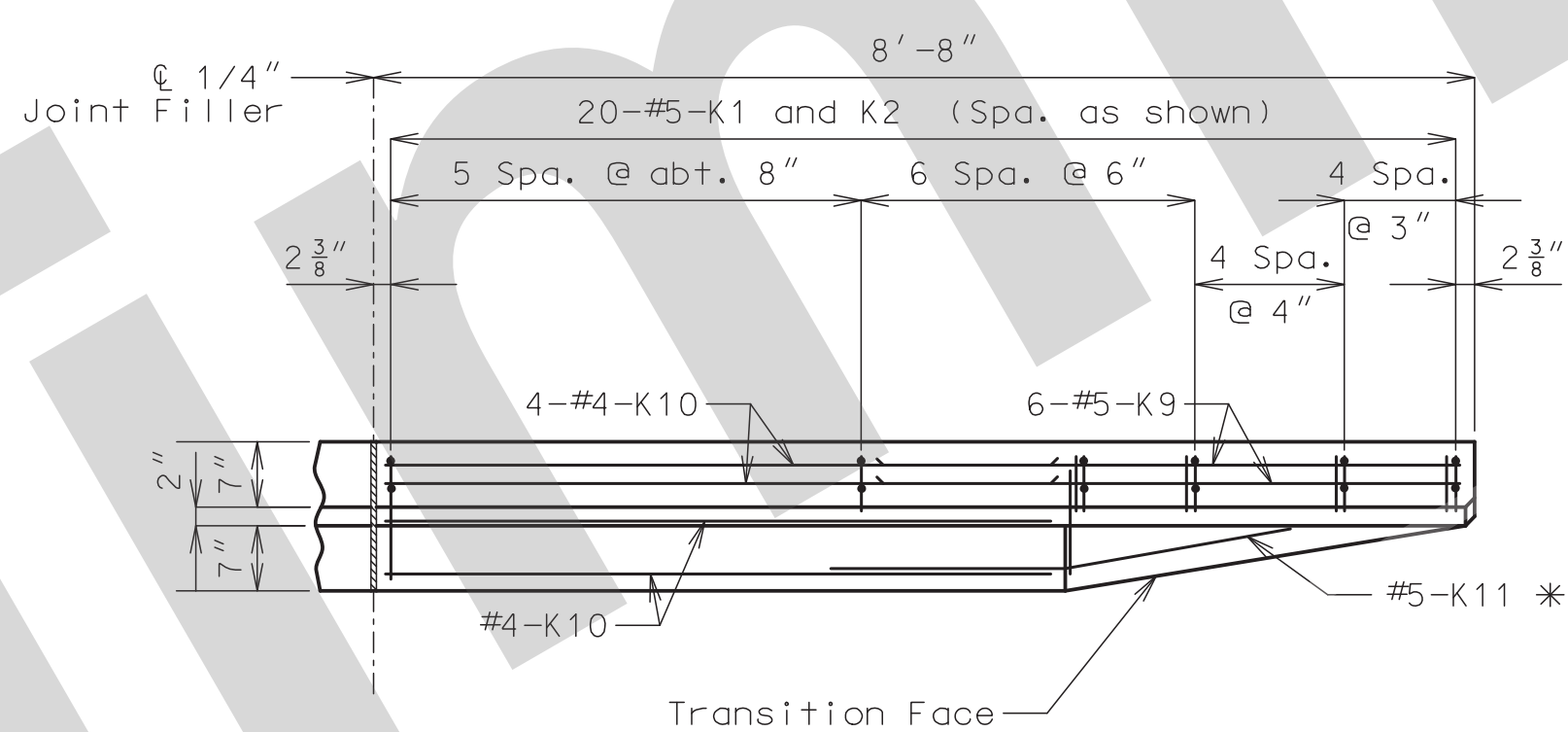
DETAILS OF GUARD RAIL ATTACHMENT

Note: Verify guardrail attachment prior to forming.



ELEVATION

* Fit bar to follow transition face of barrier.
 ** Limits of Removal of Barrier and new Type B Barrier.



PLAN

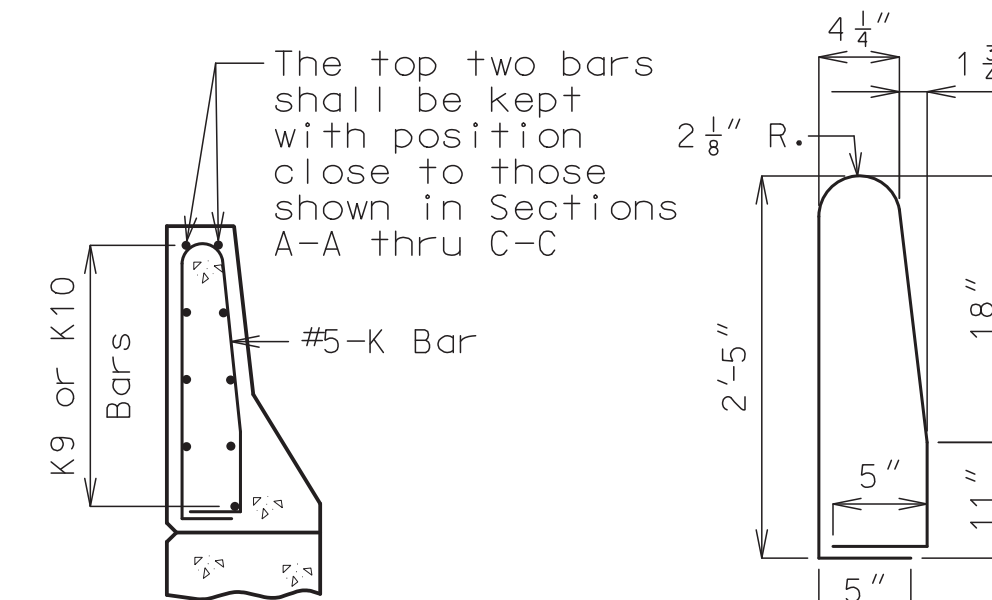
General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Reinforcing Steel:

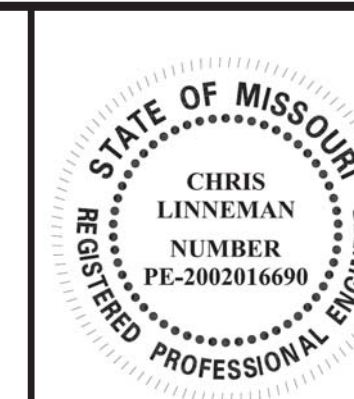
Minimum clearance to reinforcing steel shall be 1 1/2 inch except as shown for bars embedded into end bent.

Use a minimum lap of 2'-7 inch between K9 and K10 bars.



K1-K2 BAR PERMISSIBLE ALTERNATE SHAPE

The K1-K2 bar combination may be furnished as one bar as shown, at the contractor's option.



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS CITY

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10824

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

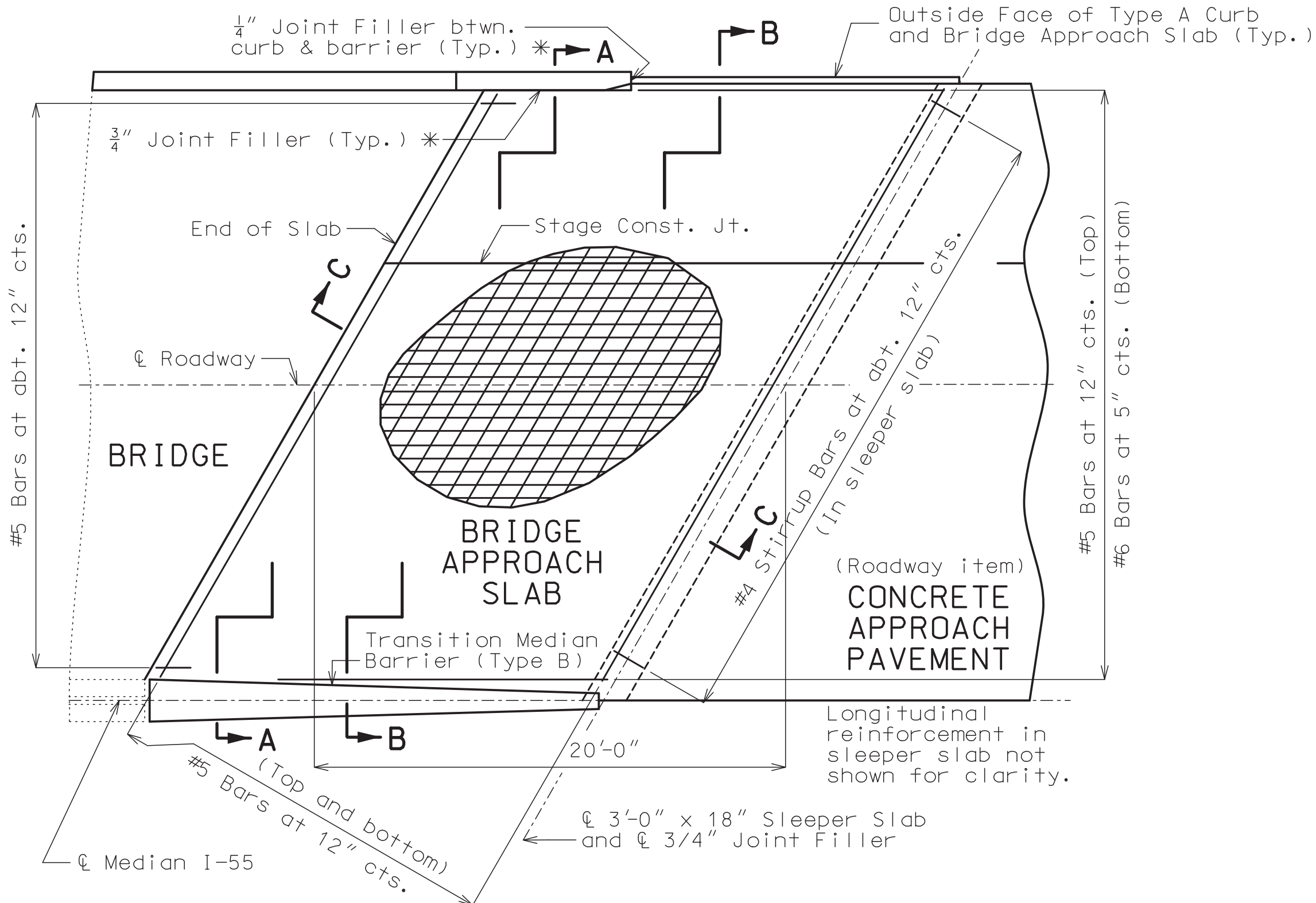


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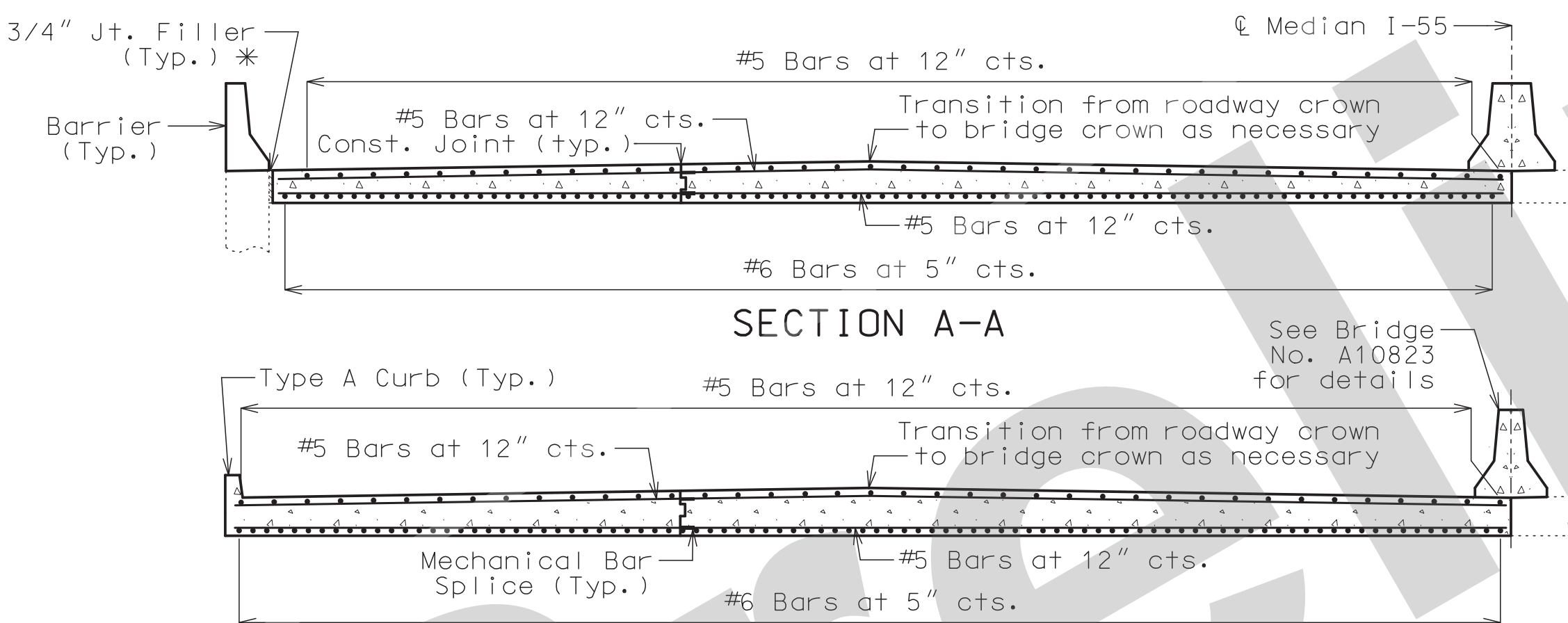
EKK Moen

Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100

Missouri Certificate of Authority: 001578

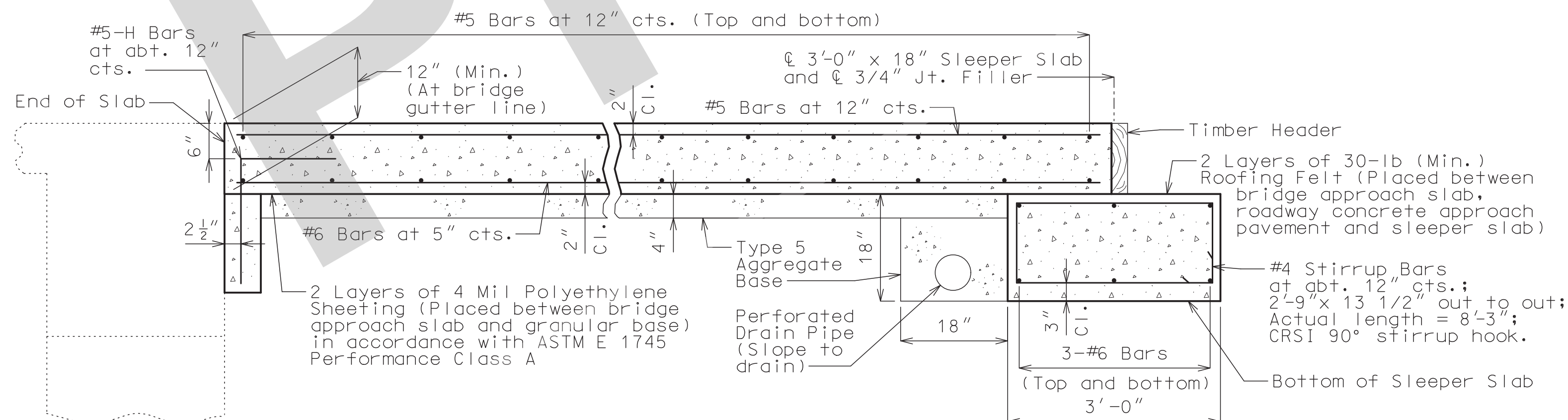


PART PLAN SHOWING REINFORCEMENT



SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

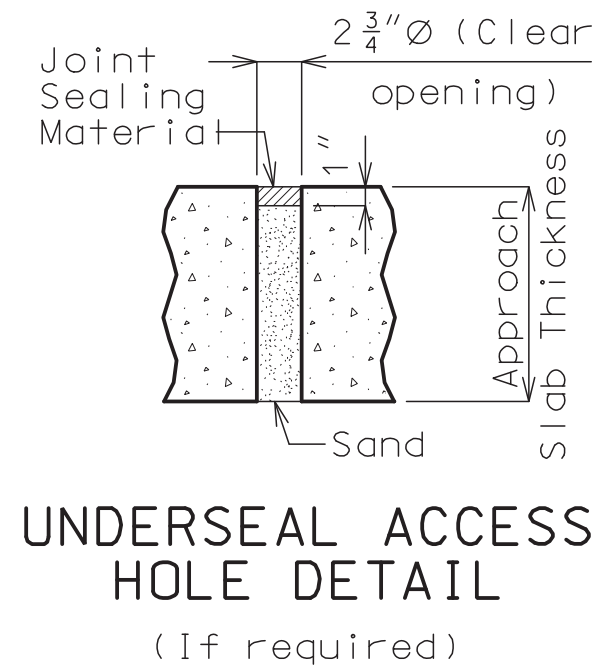


SECTION C-C

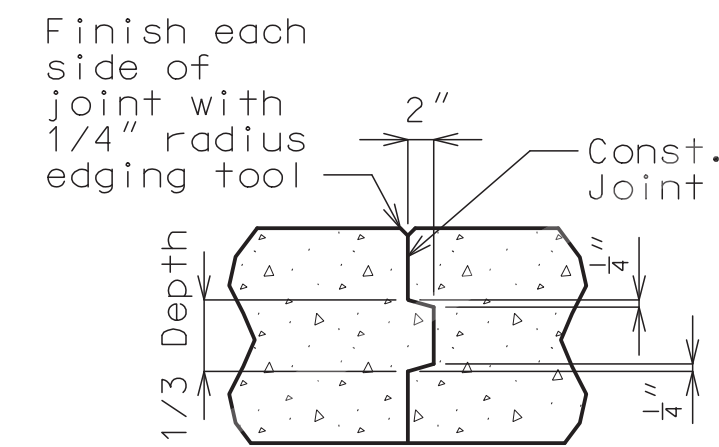
Note: New wearing surface not shown for clarity.

BRIDGE APPROACH SLAB (MAJOR)

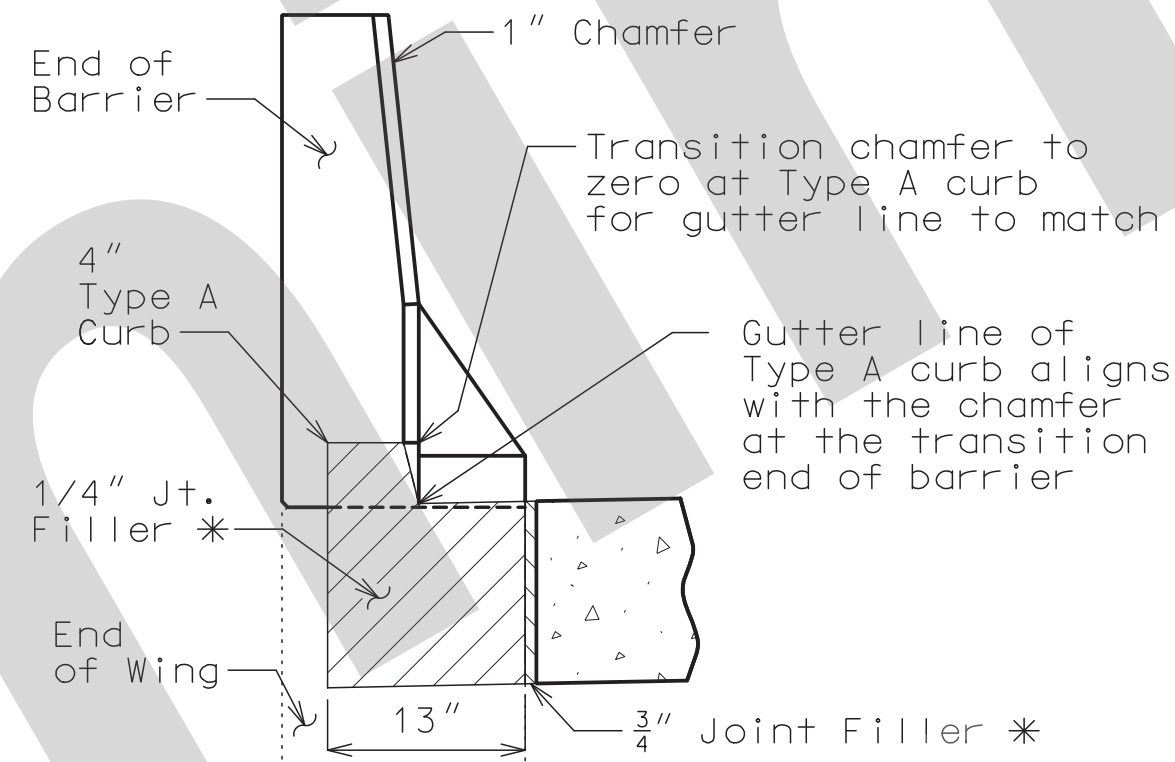
Note: This drawing is not to scale. Follow dimensions.



UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 50± splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

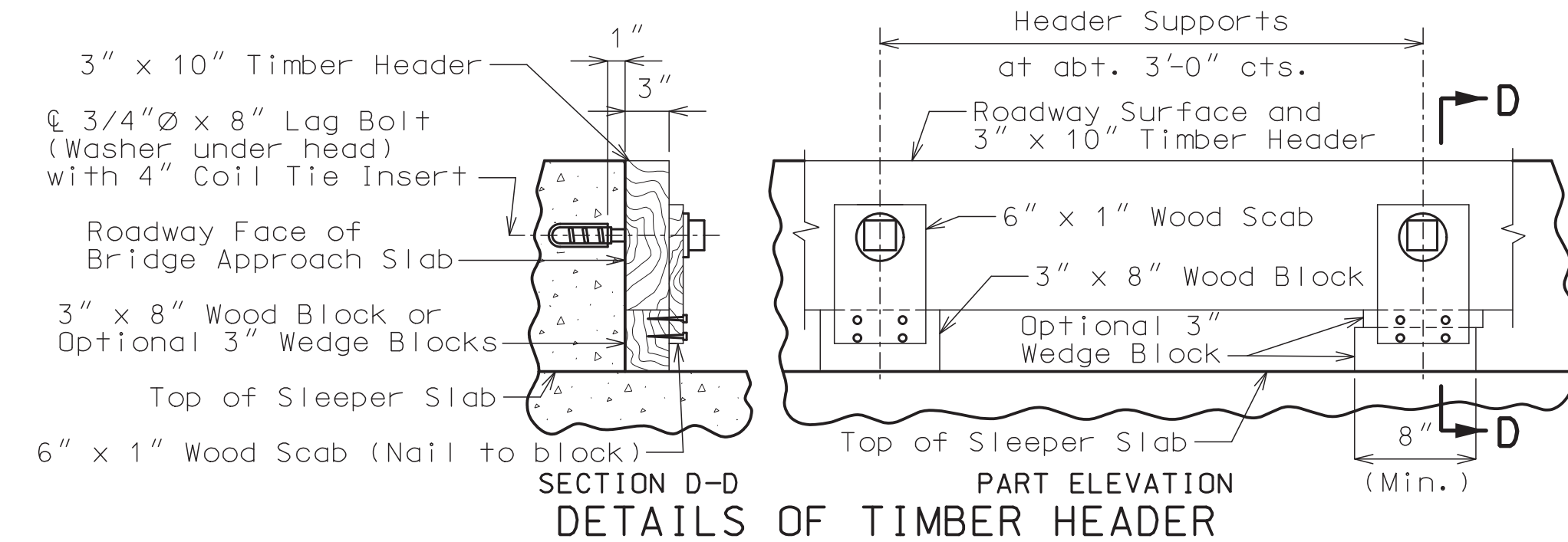
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans. See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

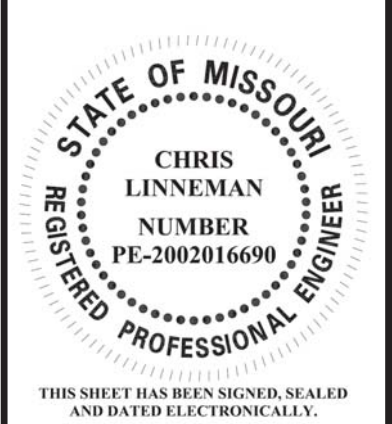
* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.

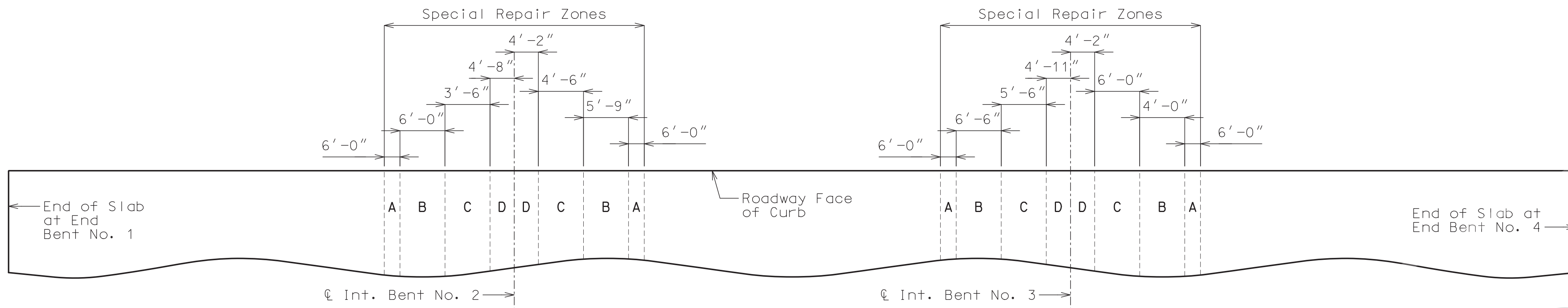


DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 7
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10824	

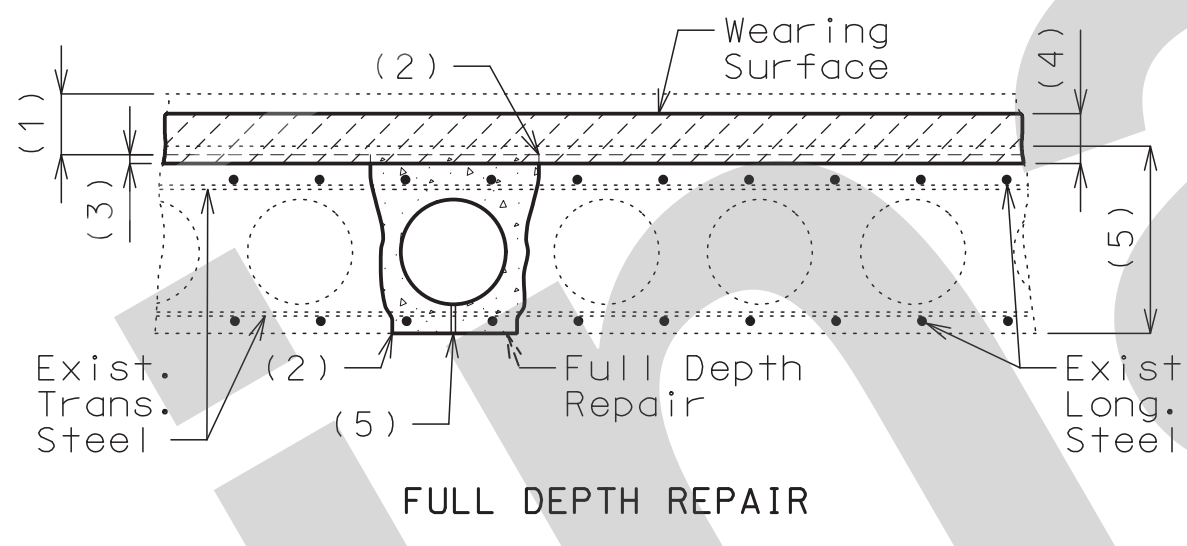
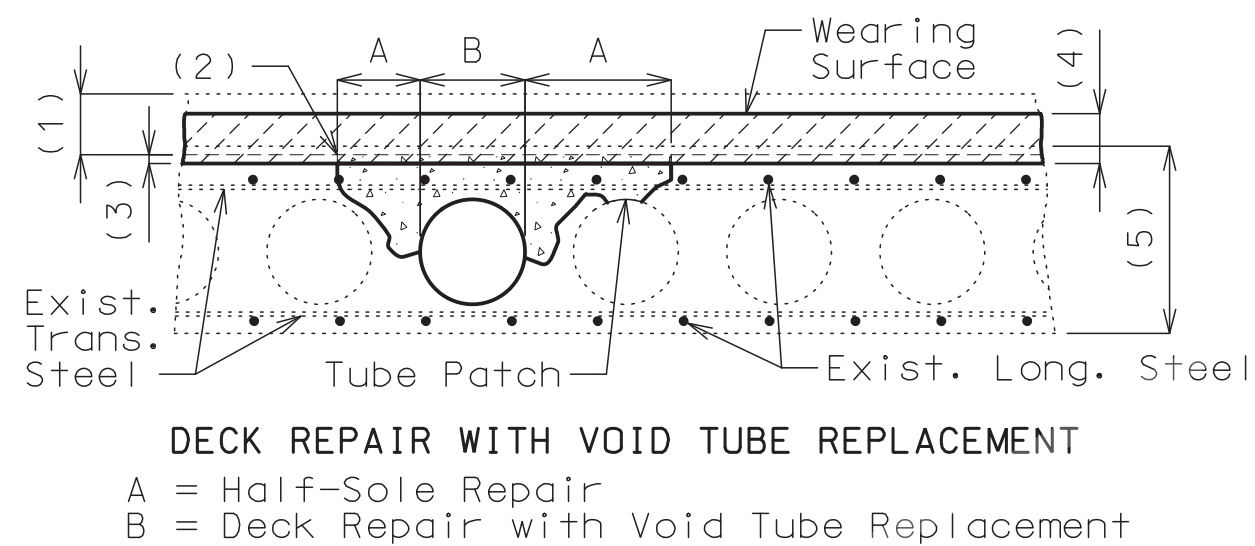
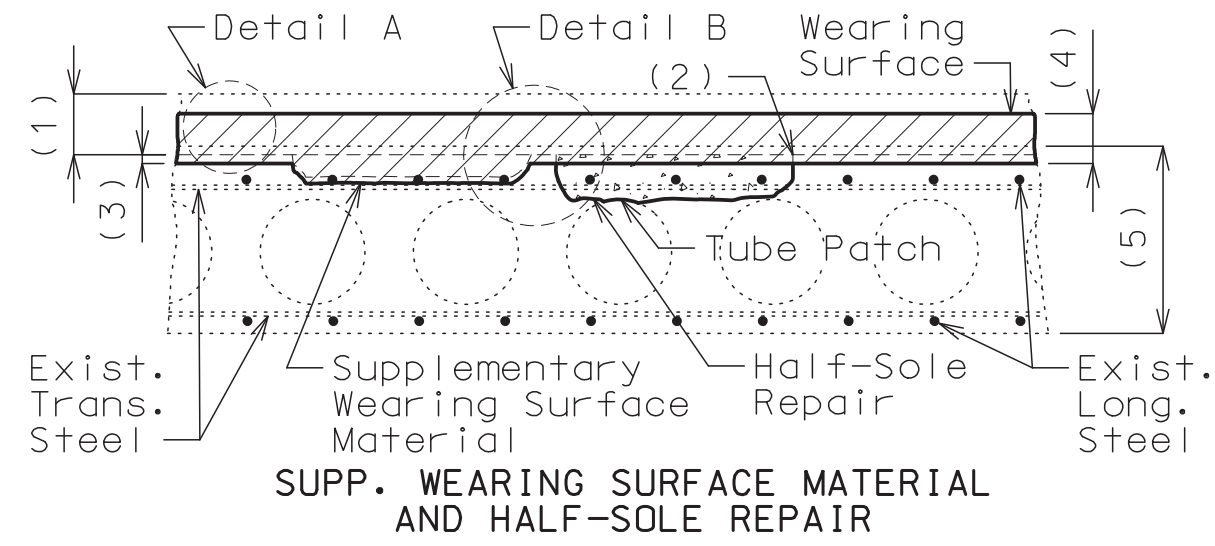
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

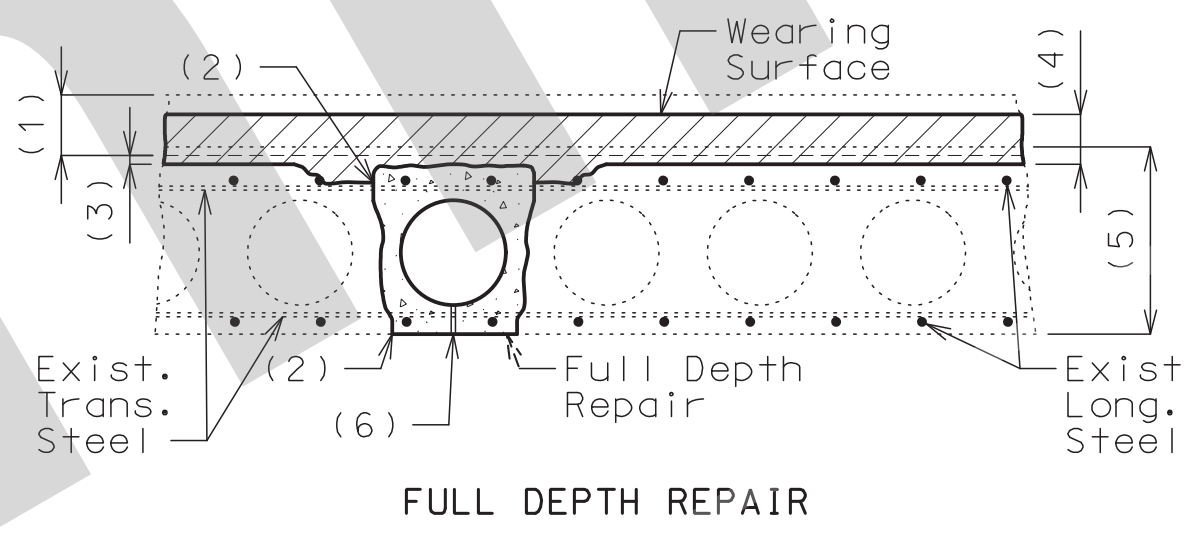
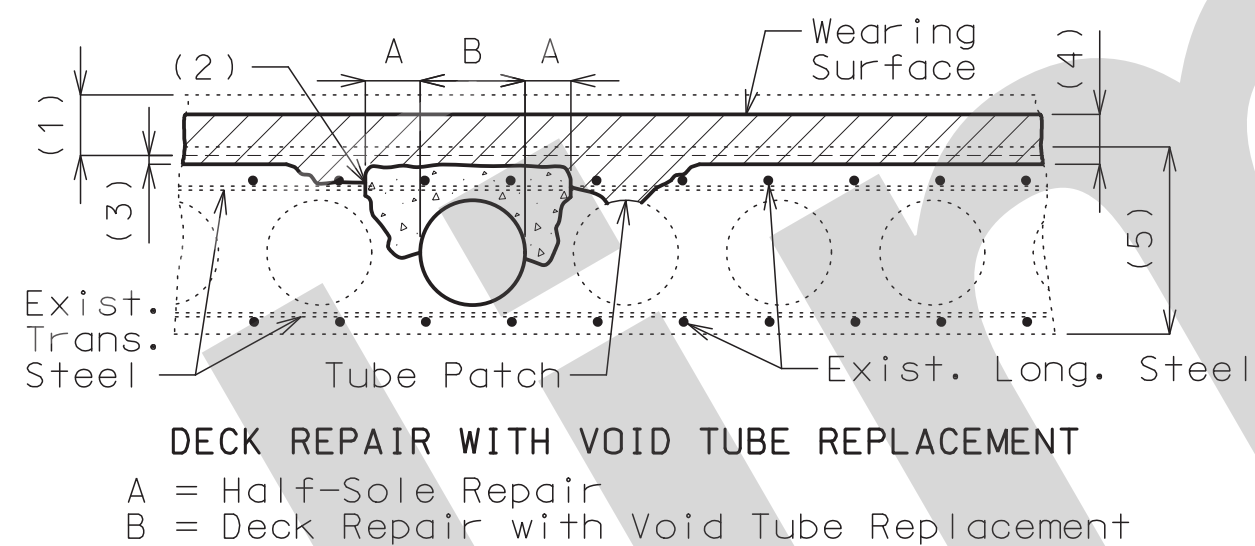
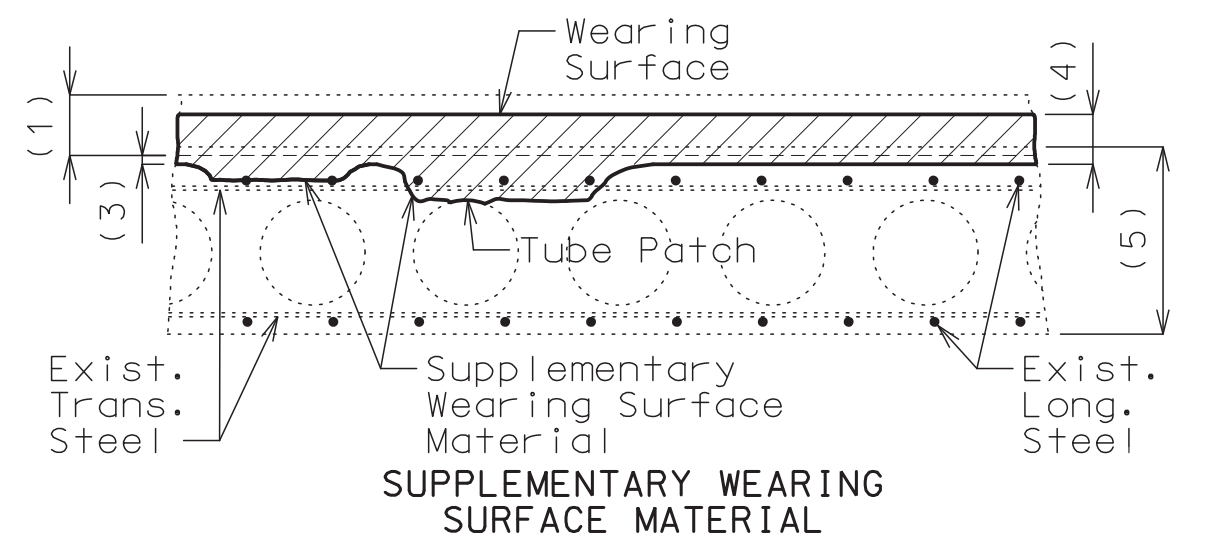
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 Civil Engineering Design
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 314-594-5100
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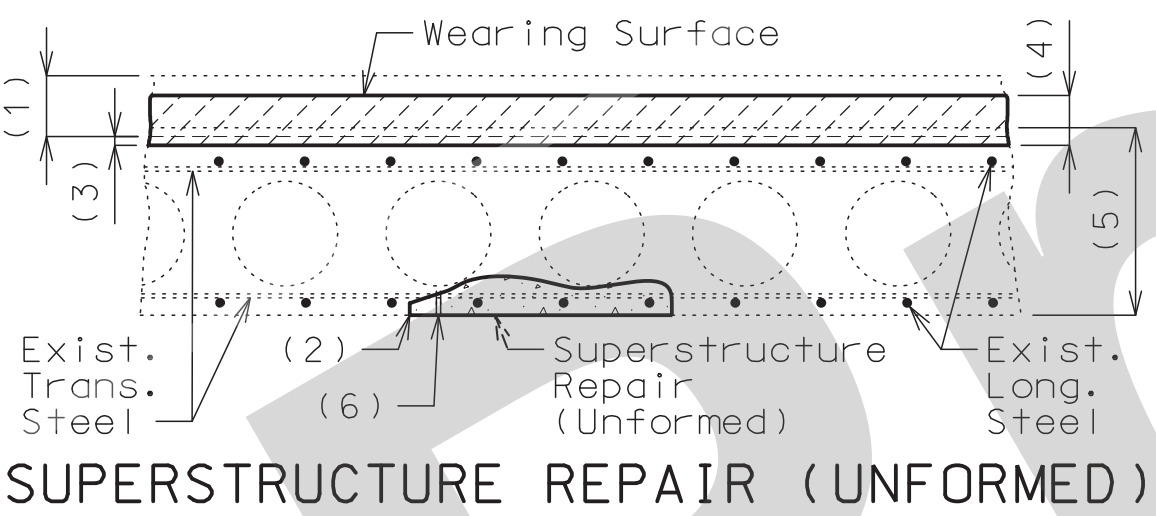
PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES



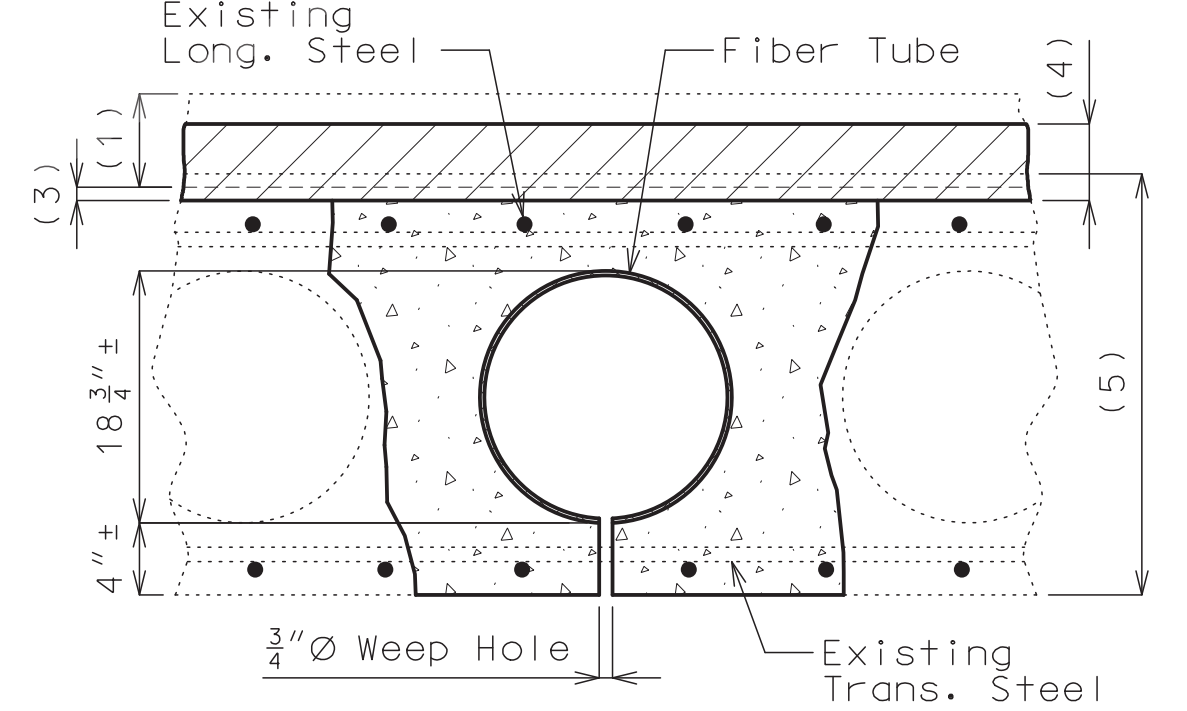
DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)



DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)



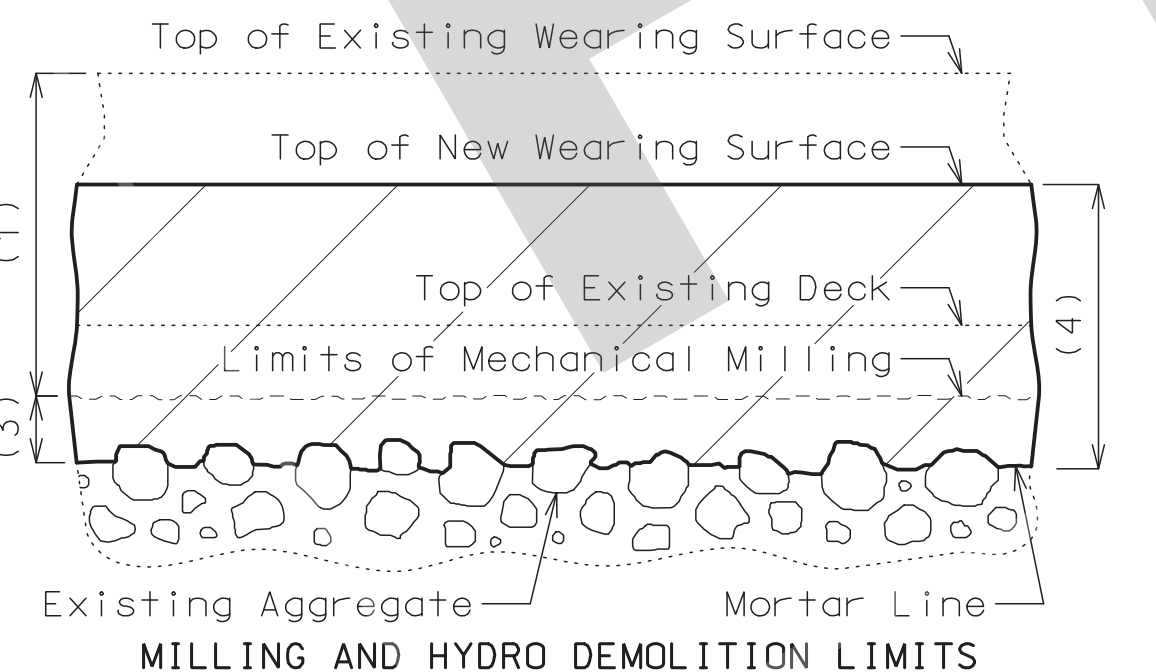
- (1) Removal of existing 1 3/4"± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
 1/4" minimum inside special repair zones
 1/2" minimum outside special repair zones
- (4) Modified Latex concrete wearing surface:
 1 3/4" minimum inside special repair zones
 2" minimum outside special repair zones
- (5) Original depth minus previous scarification
- (6) Restore existing weep hole, if encountered.



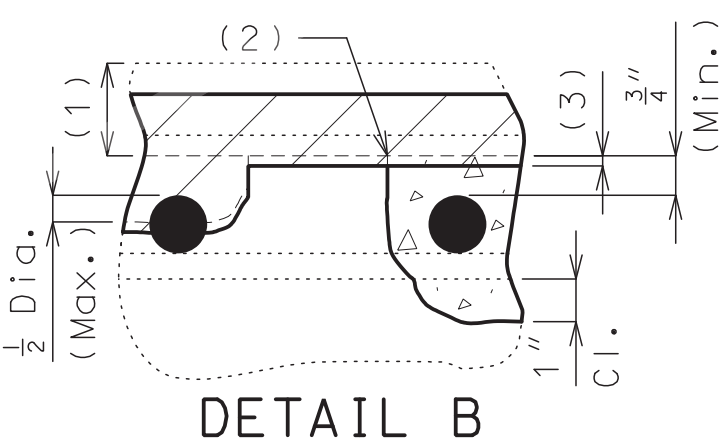
FIBER VOID TUBE REPLACEMENT

Fiber tubes for producing voids shall have an approximate outside diameter of 18 3/4 inches and a wall thickness of 1/4 inch and shall be anchored to joists carrying the floor form at not more than 4-foot centers.

One 3/4"Ø weep hole shall be provided at 2 inches from each end of each new void.



DETAIL A



DETAIL B

Supplementary Wearing Surface Material shall be used when only half the diameter or less of the top bar is exposed.

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.

DECK REPAIR DETAILS

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
 - a. Removal of existing deck repair
 - b. Half-sole repair
 - c. Deck repair with void tube replacement
 - d. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
 - a. Deck repair with void tube replacement
 - b. Full depth repair
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

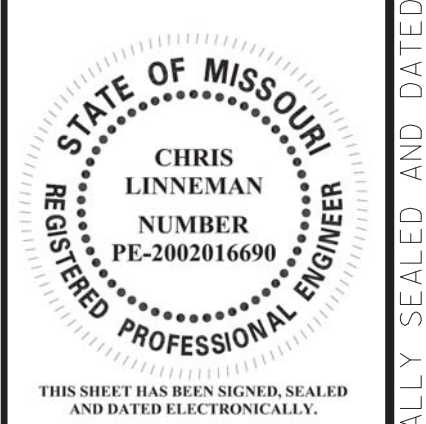
If any single repair area does not exceed 4 square feet in size and the total repair area within a special repair zone does not exceed 12 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Void Repair:

Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as required by the engineer at the contractor's expense.

An exposed void in the deck shall be patched as approved by the engineer in a manner that shall maintain the void area completely free of concrete. Cost of patching an exposed void will be considered completely covered by the contract unit price for Half-Sole Repair inside special repair zones and Monolithic Deck Repair outside special repair zones.

When a deteriorated portion of the void tube is beyond the point of patching as determined by the engineer, the portion of the deteriorated void tube shall be replaced. The void area shall be maintained completely free of concrete. Cutting of the longitudinal reinforcing steel will not be permitted. The fiber tubes for producing the voids shall have an outside diameter with the wall thickness the same as the existing tubes and anchored at not more than the original spacing. Cost of replacing the void tube will be considered completely covered by the contract unit price for Deck Repair with Void Tube Replacement. Measurement will be horizontal projection of the area of exposed tube in plan.



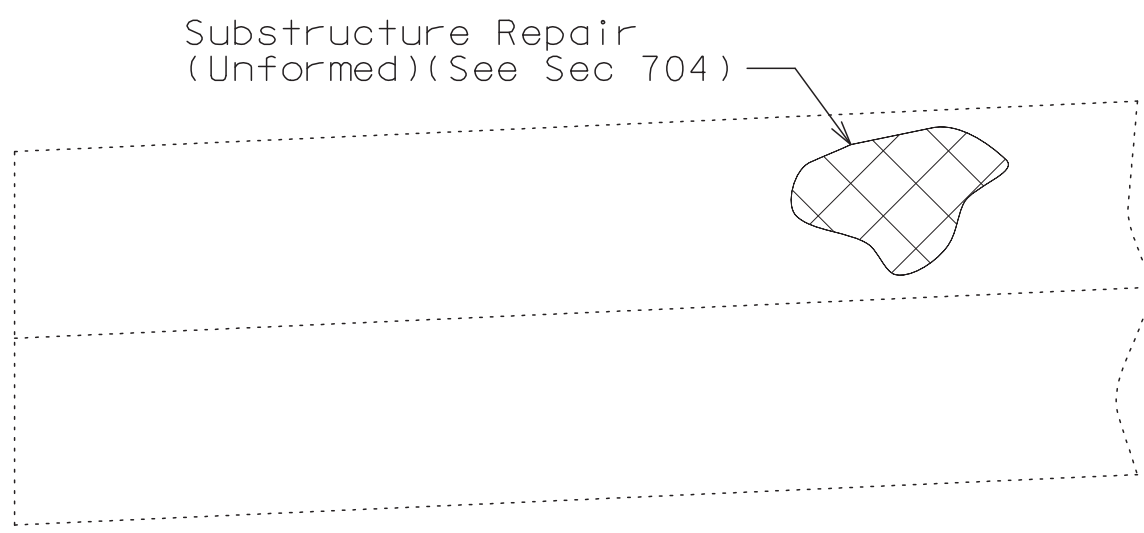
DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10833	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

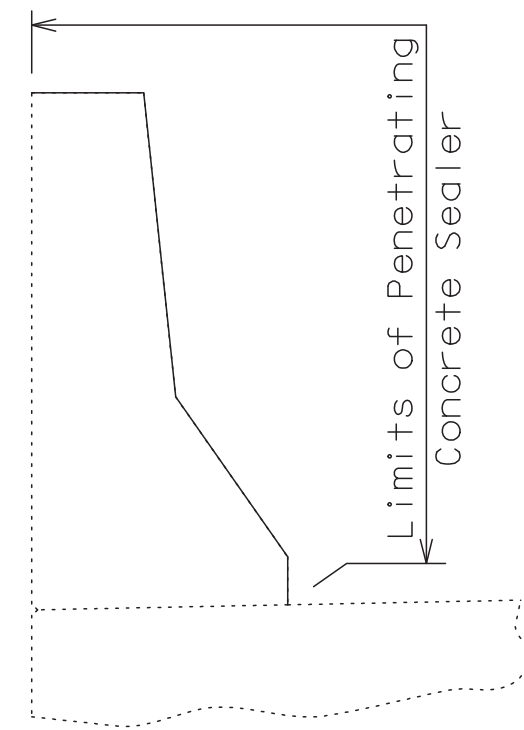
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EKK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
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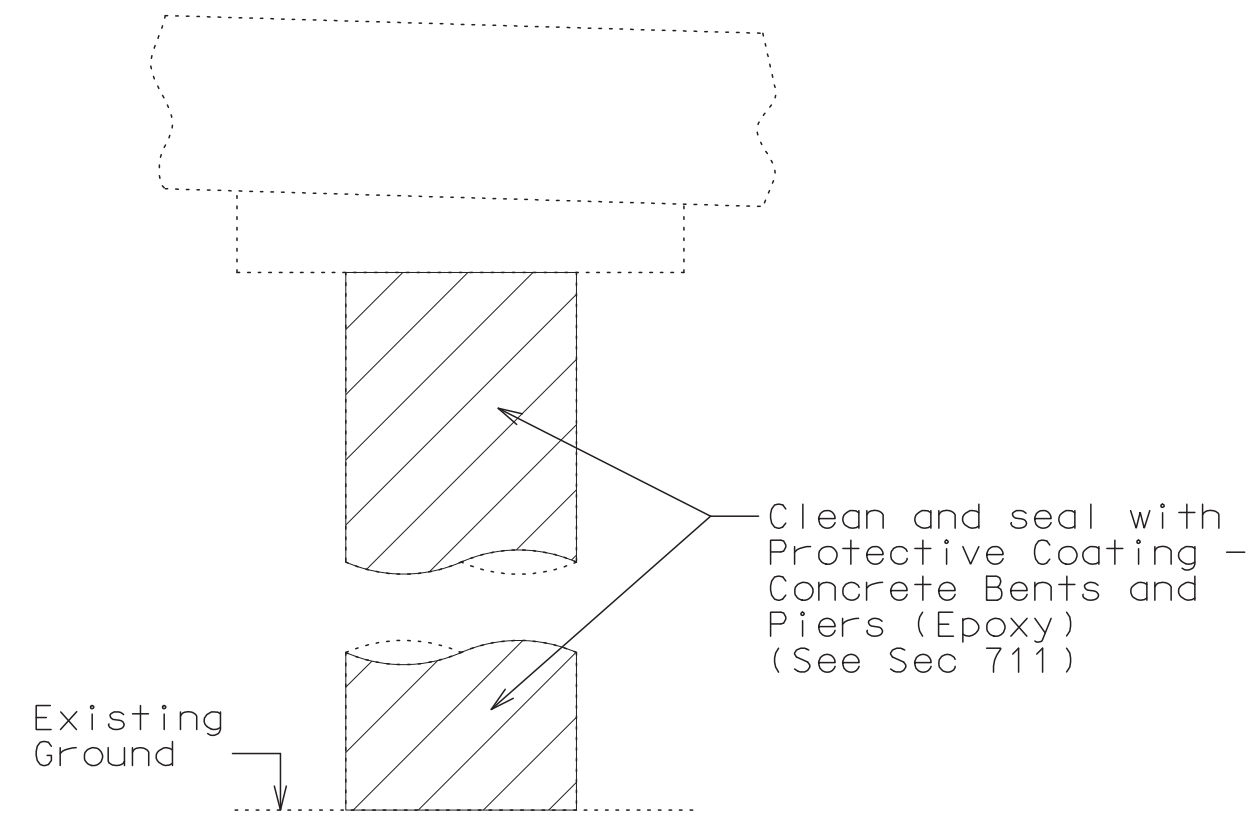


PART ELEVATION

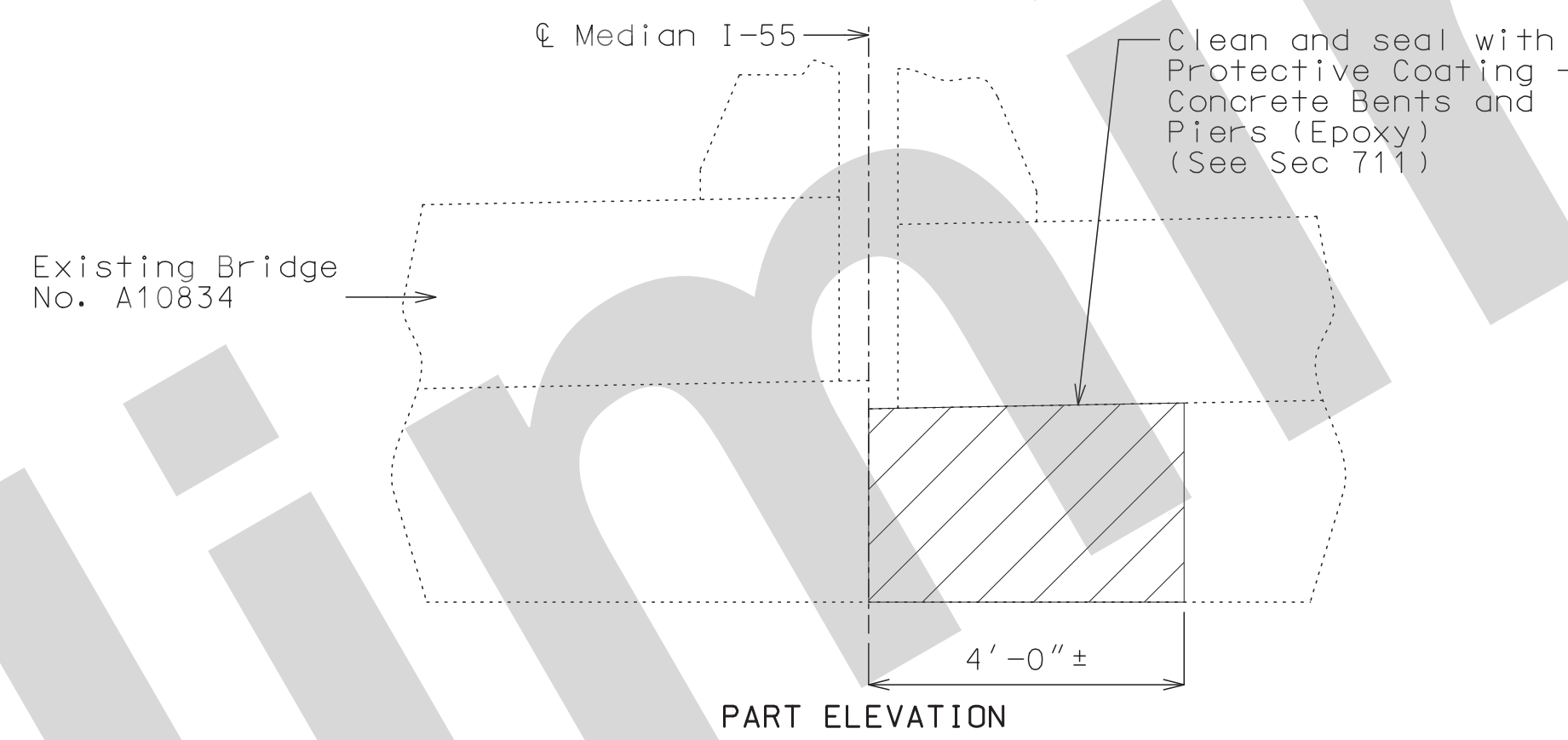
DETAIL SHOWING SUBSTRUCTURE REPAIR AT END BENTS NO. 1 & 4



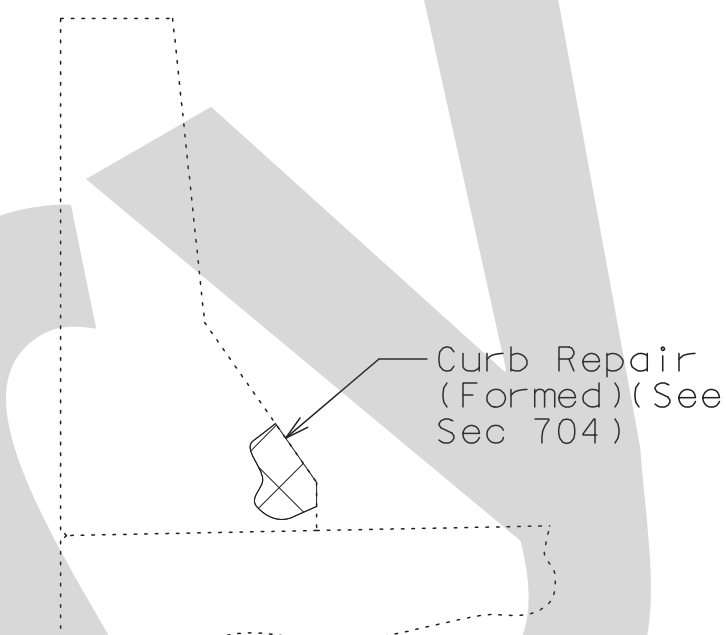
DETAIL SHOWING PENETRATING CONCRETE SEALER
(Full length of all barrier curbs)



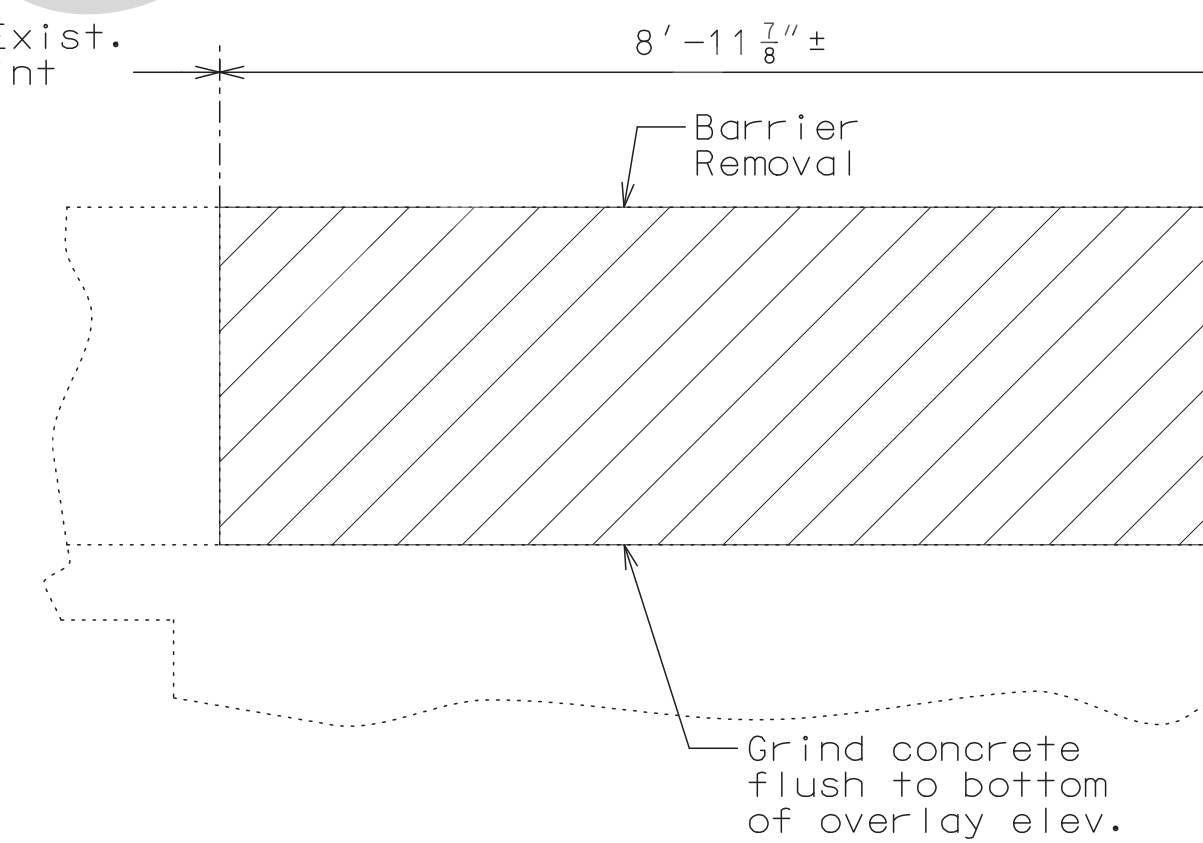
TYPICAL SECTION THRU INT. BENTS SHOWING PROTECTIVE COATING
(Applies to Int. Bents No. 2 & 3)



DETAIL SHOWING PROTECTIVE COATING AT END BENTS NO. 1 & 4

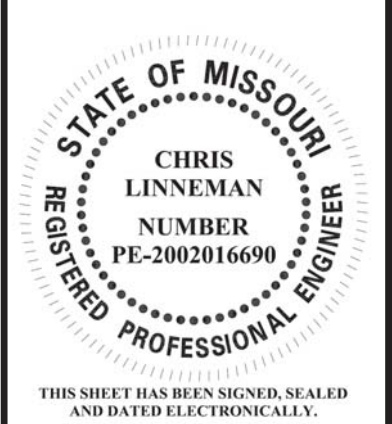


DETAIL SHOWING CURB REPAIR



REMOVAL OF LEFT TYPE B BARRIER AT END BENT NO. 4

Preliminary



DATE PREPARED 8/5/2021	
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PROJECT NO.	
BRIDGE NO. A10833	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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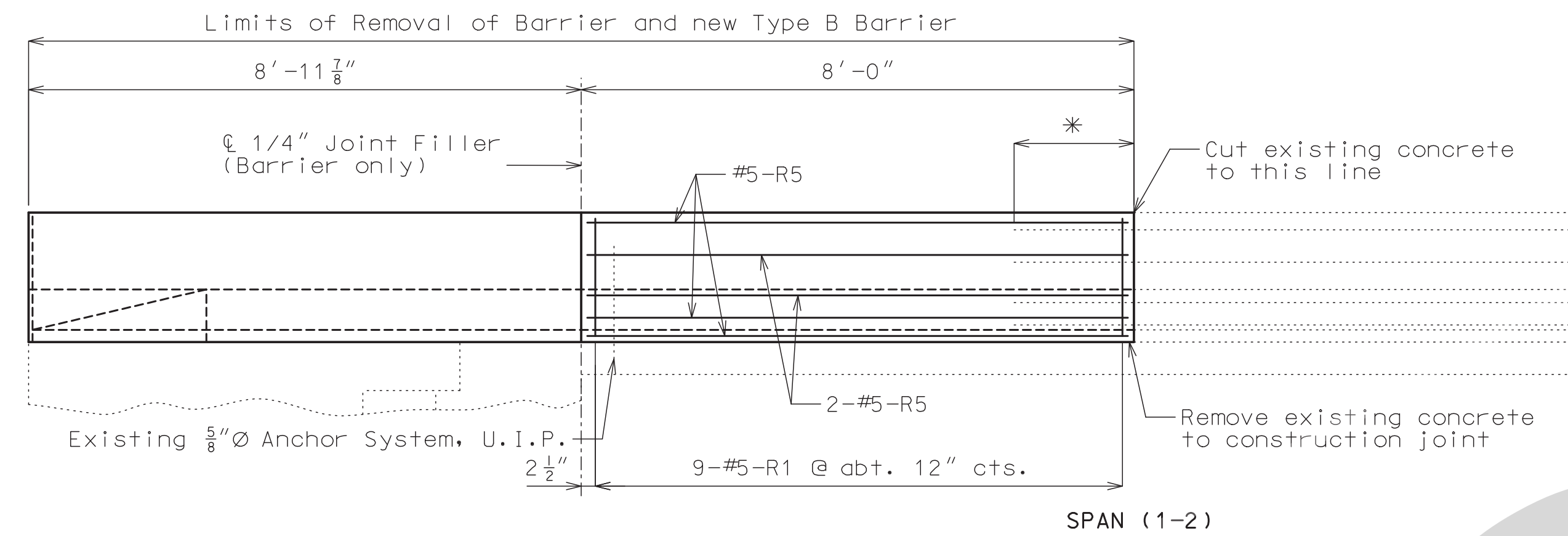
EKK Moen
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REPAIR DETAILS

Detailed JUN 2021
Checked JUN 2021

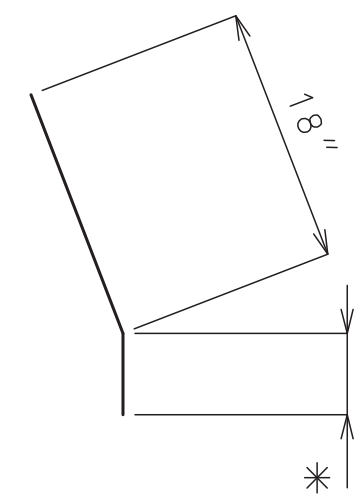
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 9



PART ELEVATION OF RIGHT BARRIER

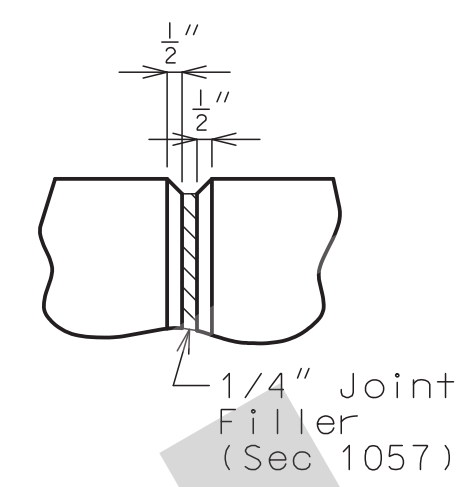
* Extend existing bars 2'-3" into new concrete
Rustication not shown for clarity.



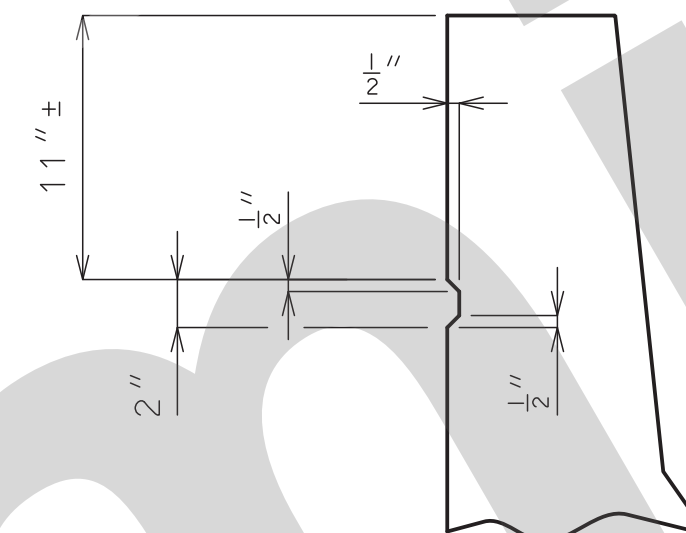
System A
(Replace existing anchored bars if damaged or not anchored after barrier removal)

DETAILS OF RESIN ANCHOR SYSTEM

* Manufacturer's recommended embedment length (5" min.)

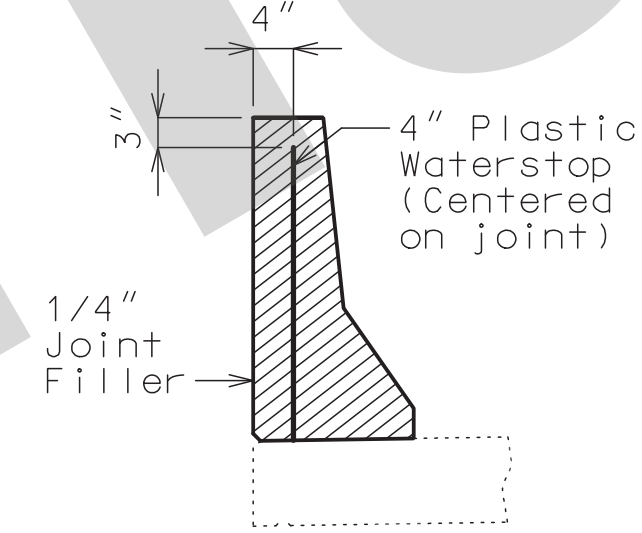


PART ELEVATION AT FORMED JOINT



RUSTICATION DETAIL

Note: Dimensions provided for information only, match existing rustication.



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

General Notes:

Top of barrier shall be built parallel to grade with barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

Concrete in the barrier shall be Class B-1.

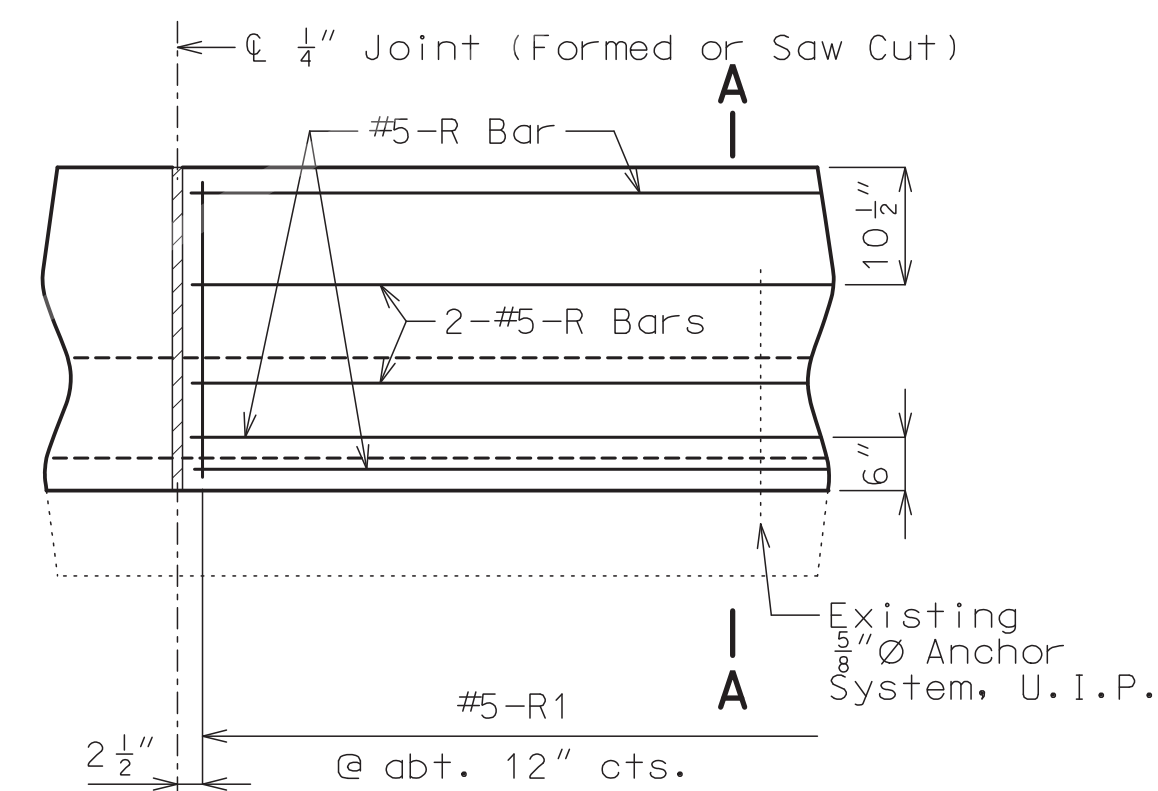
Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

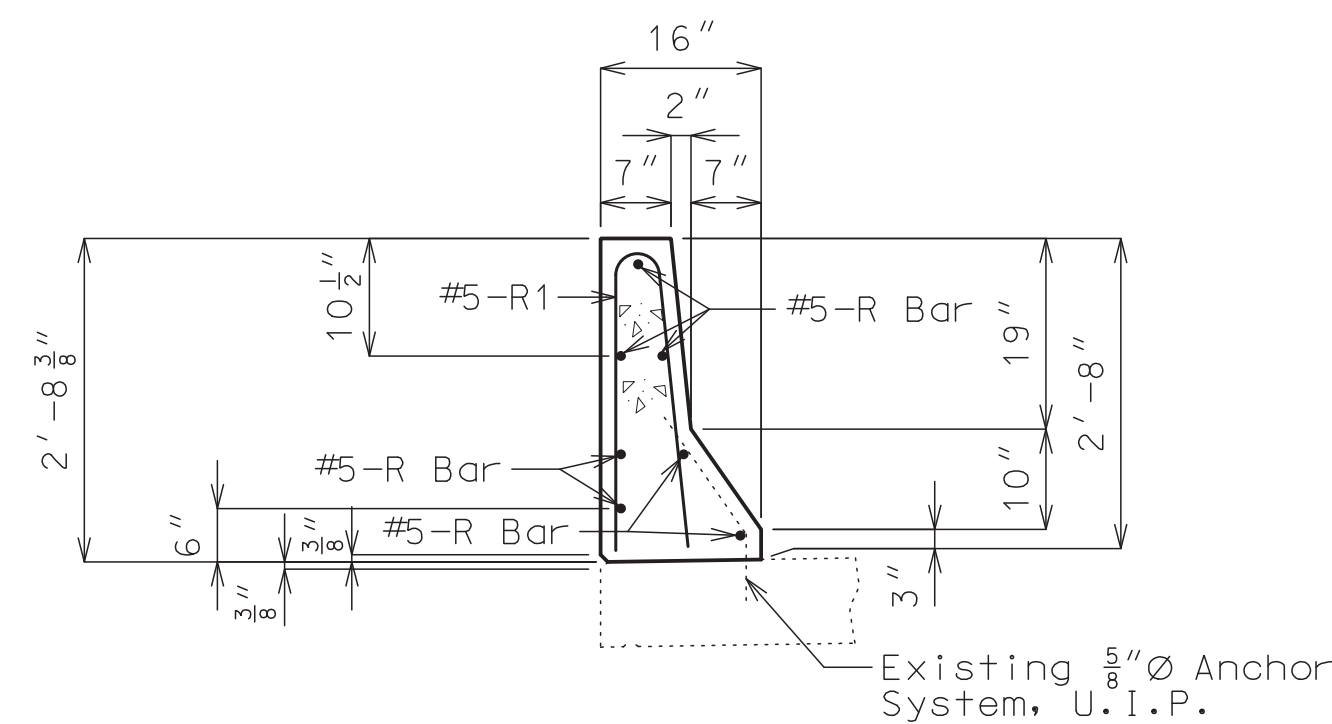
Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with saw cut joints.

See Sheet No. 5 for barrier end details.



PART ELEVATION OF BARRIER



SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

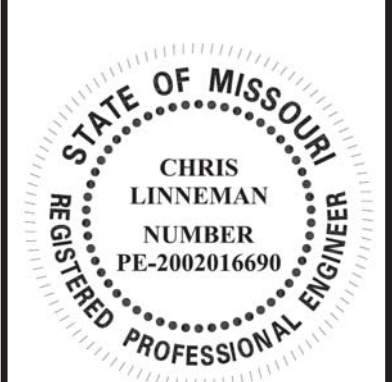
The cross-sectional area above the slab is 2.27 square feet.

RIGHT TYPE B BARRIER AT END BENT NO. 1

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 9

Detailed JUN 2021
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DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
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PROJECT NO.	
BRIDGE NO. A10833	

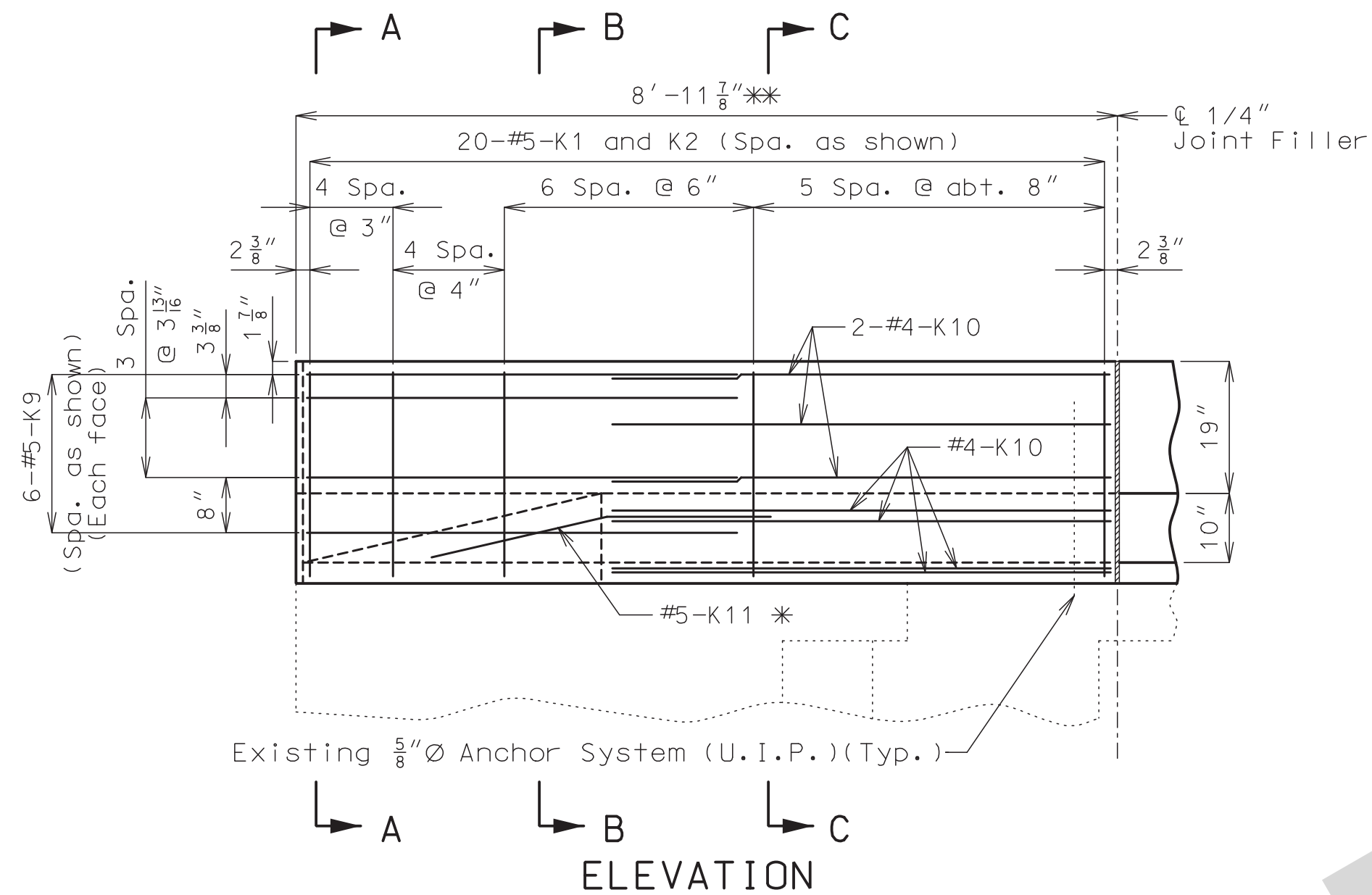
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

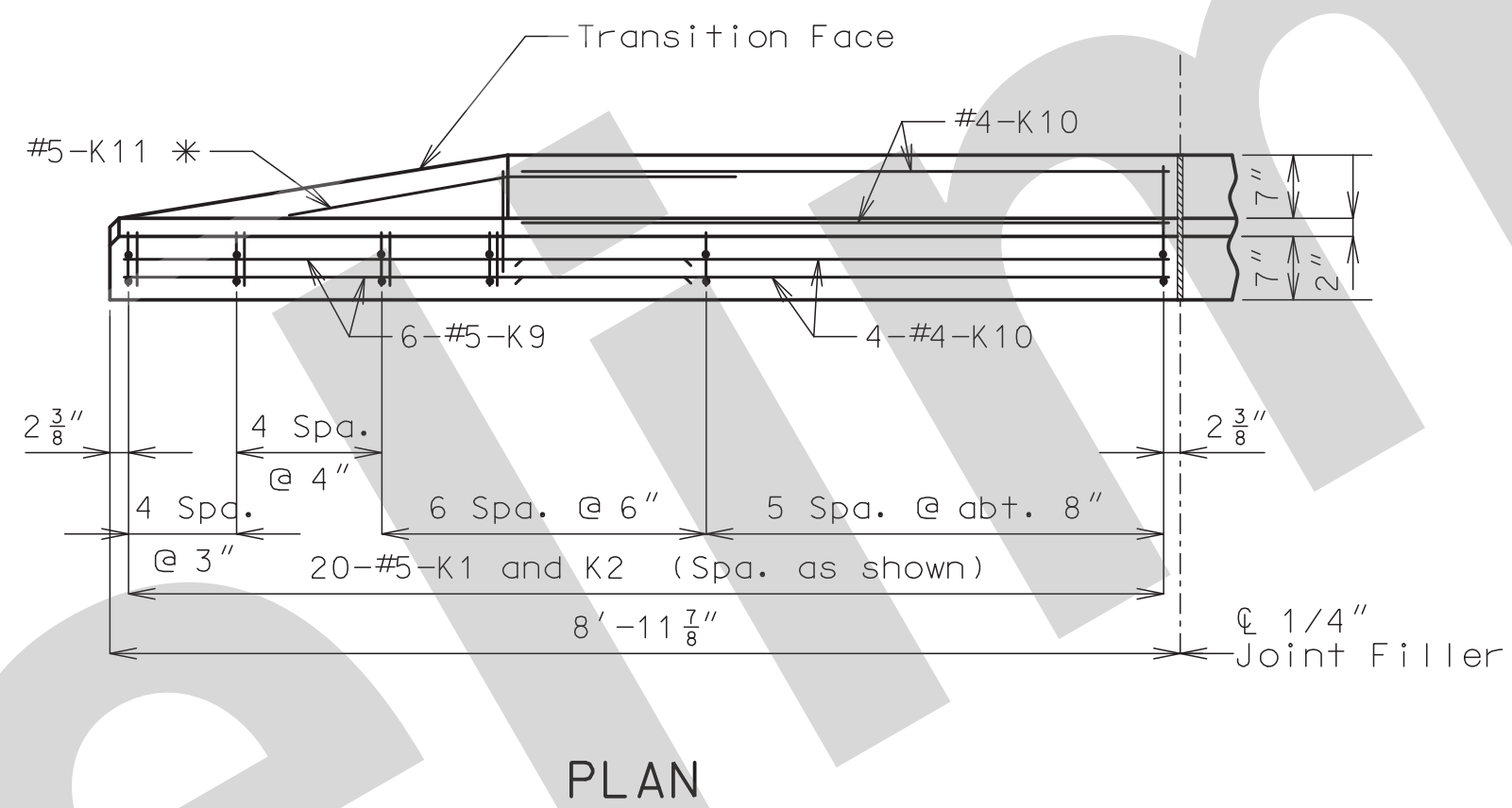
105 WEST CAPITOL
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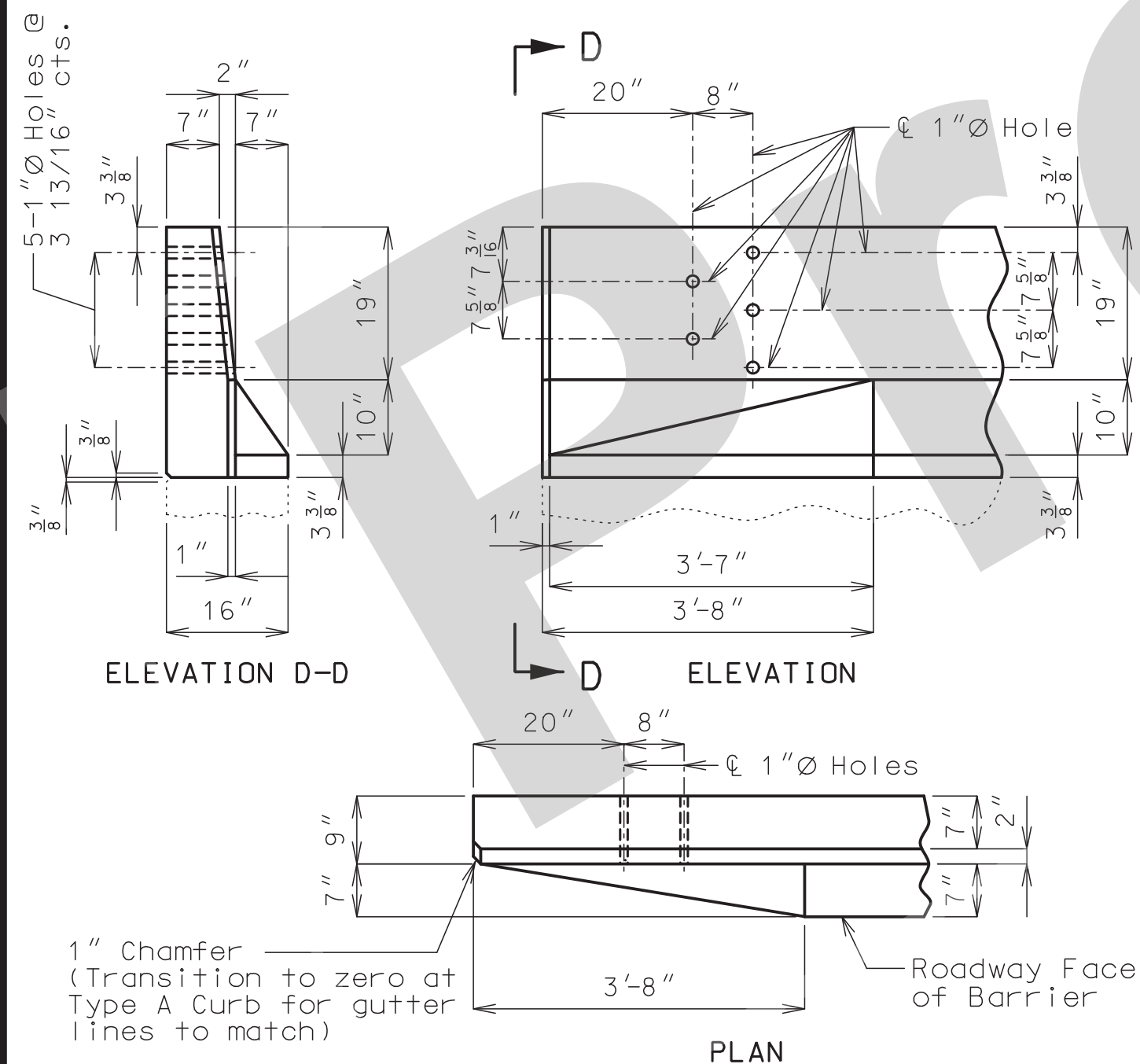
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED



* Fit bar to follow transition face of barrier.
 ** Limits of Removal of Barrier and new Type B Barrier.



PLAN



DETAILS OF GUARD RAIL ATTACHMENT

Note: Verify guardrail attachment prior to forming.

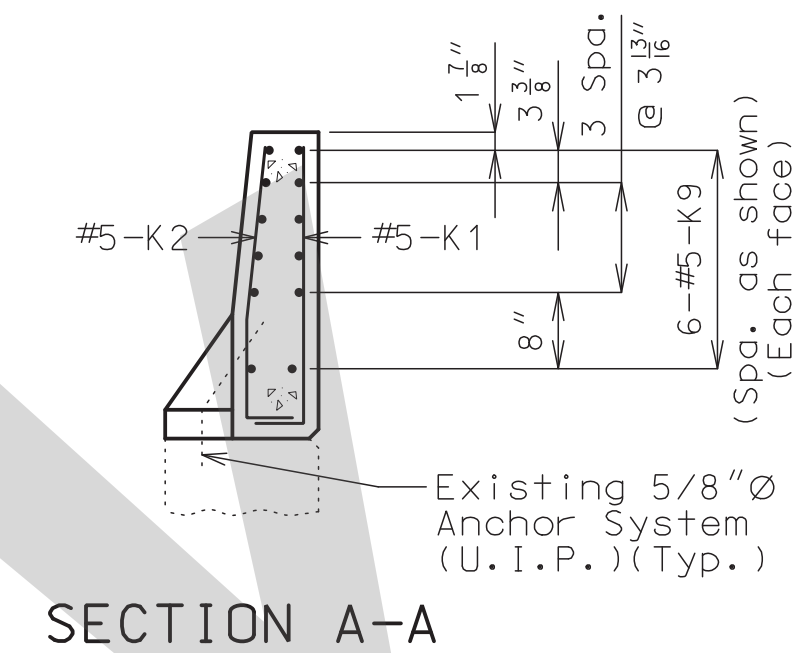
General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

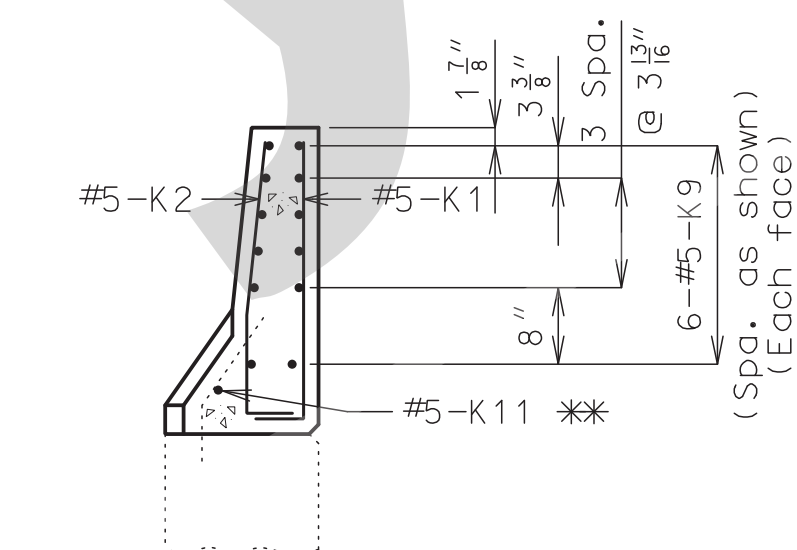
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2 inch except as shown for bars embedded into end bent.

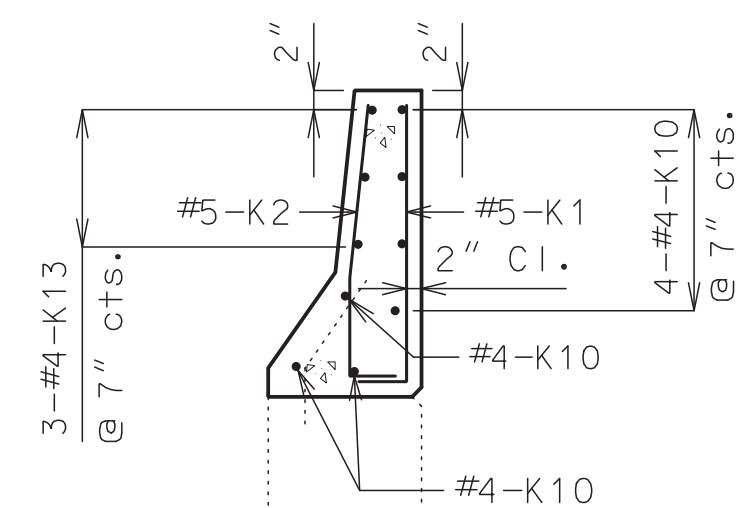
Use a minimum lap of 2'-7 inches between K9 and K10 bars.



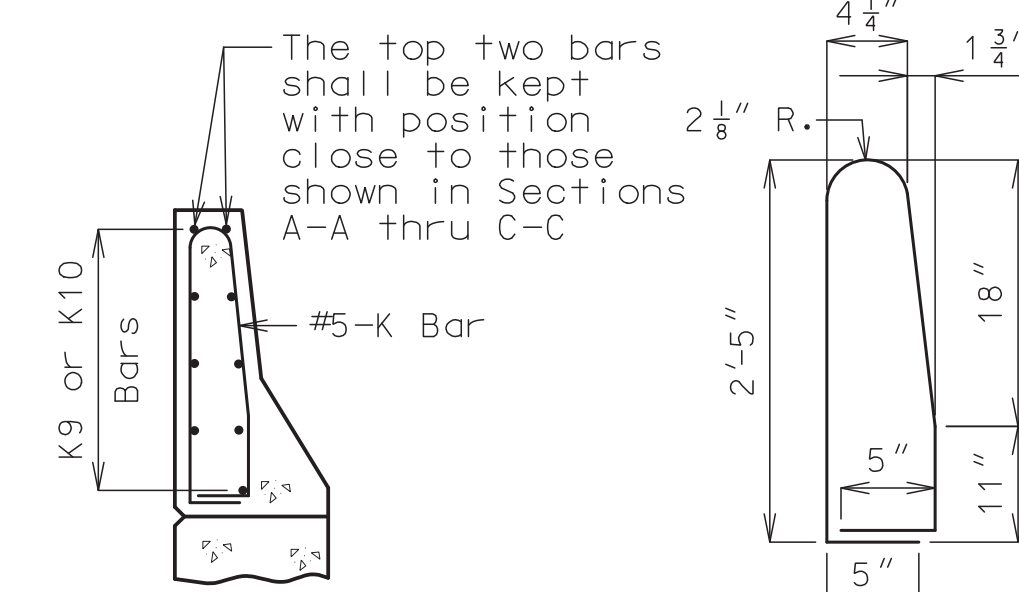
SECTION A-A



SECTION B-B



SECTION C-C



K1-K2 BAR PERMISSIBLE ALTERNATE SHAPE

The K1-K2 bar combination may be furnished as one bar as shown, at the contractor's option.



DATE PREPARED 8/6/2021	
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PROJECT NO.	
BRIDGE NO. A10833	

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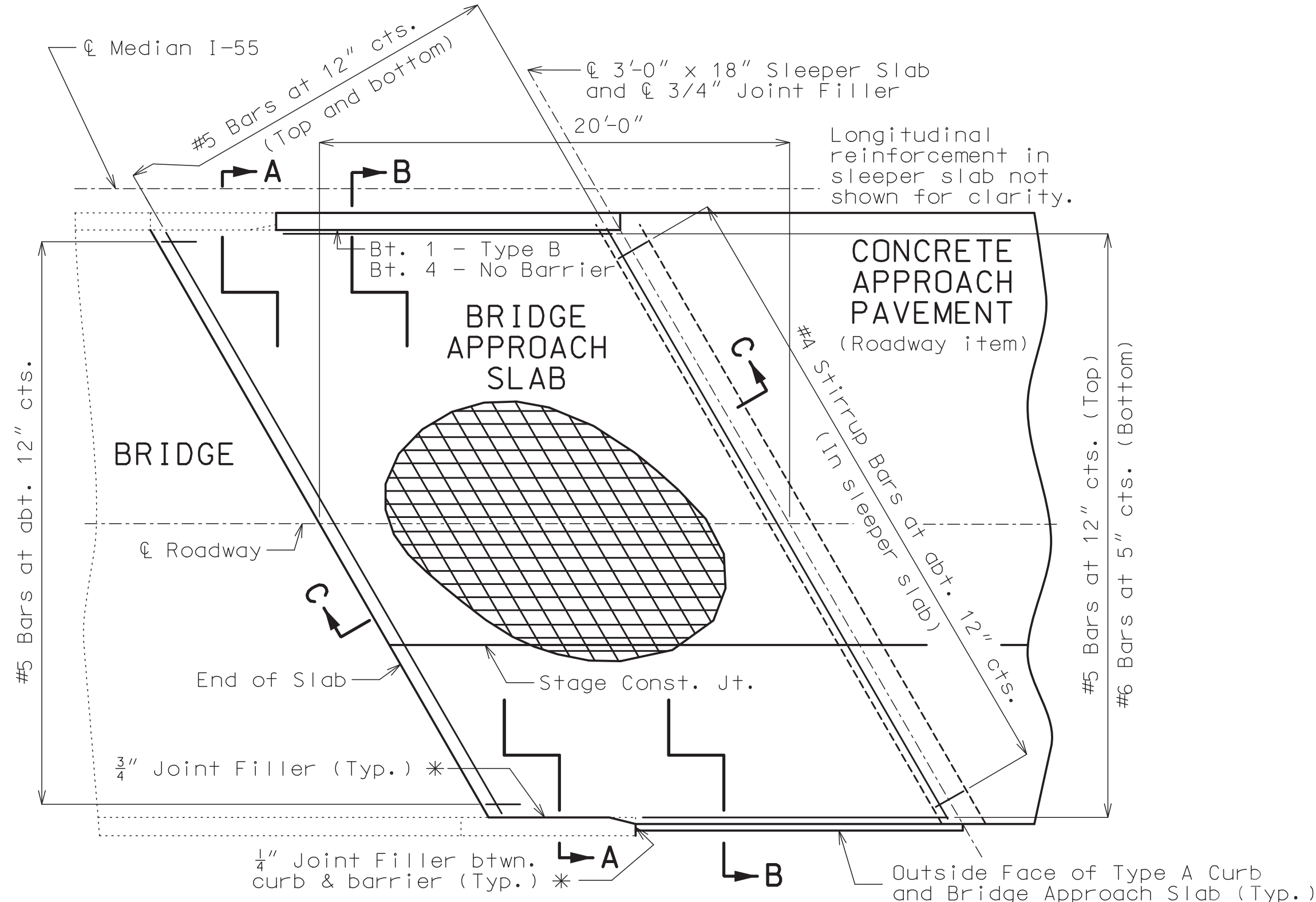
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RIGHT TYPE B BARRIER AT END BENT NO. 1

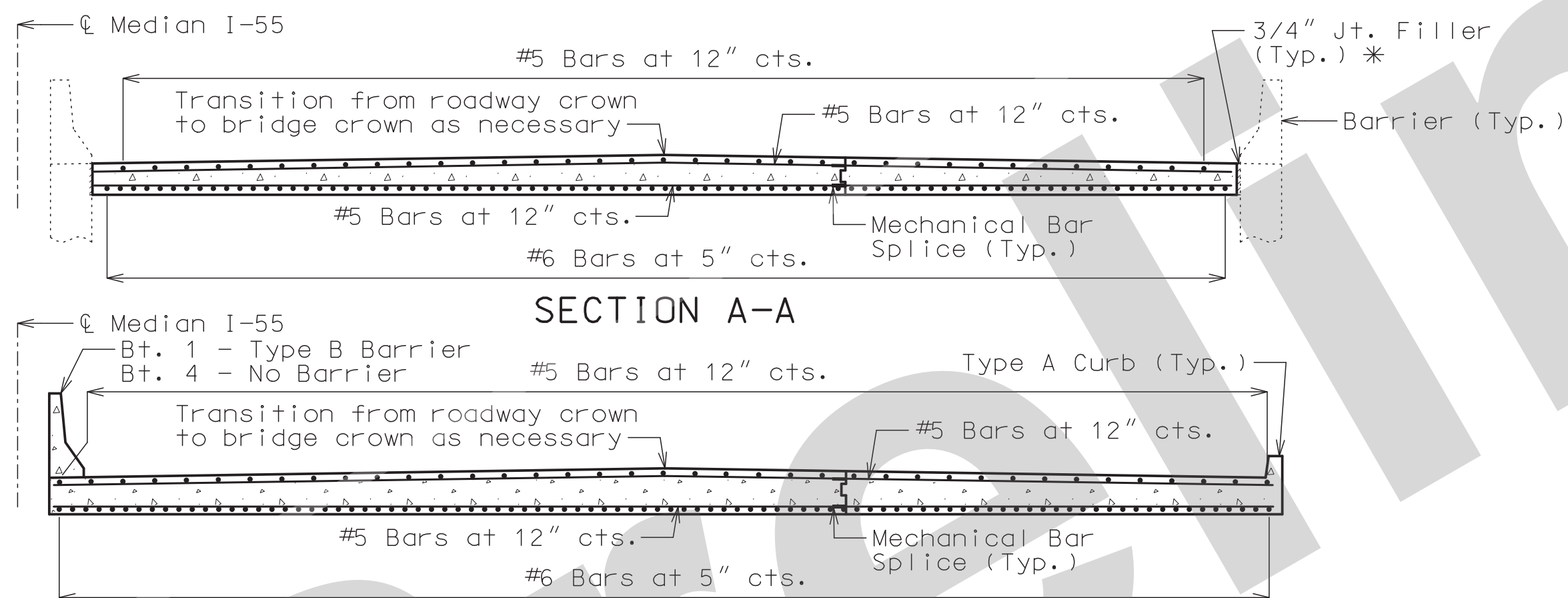
Detailed JUN 2021
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Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 9

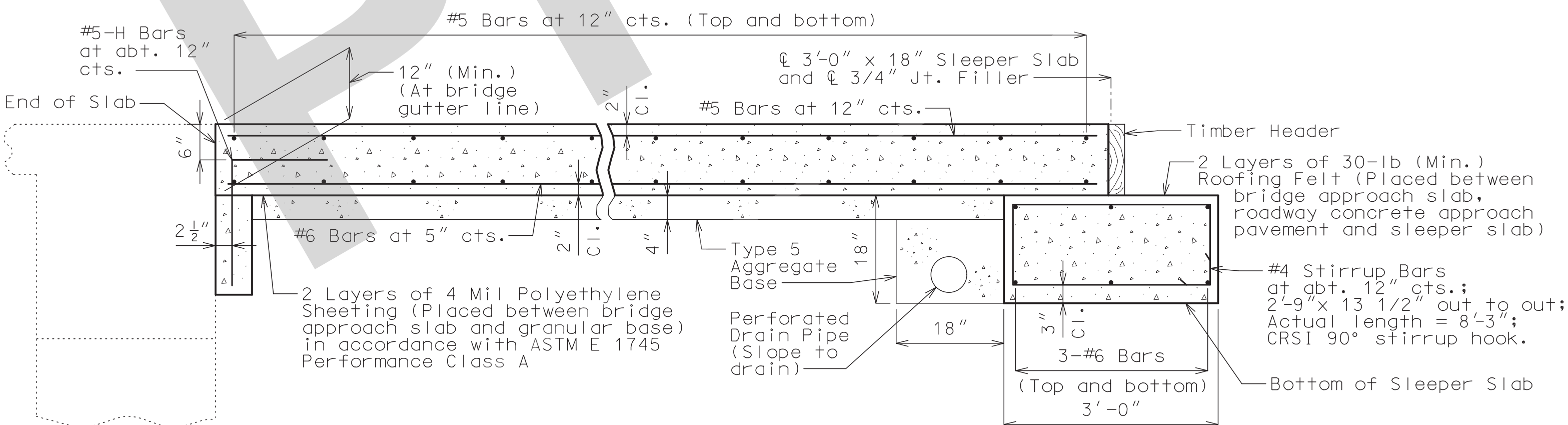


PART PLAN SHOWING REINFORCEMENT
(End Bent No. 4 shown, End Bent No. 1 similar)



SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

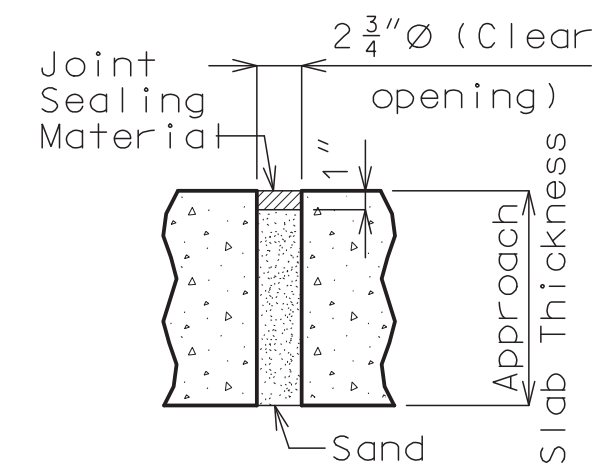


SECTION C-C

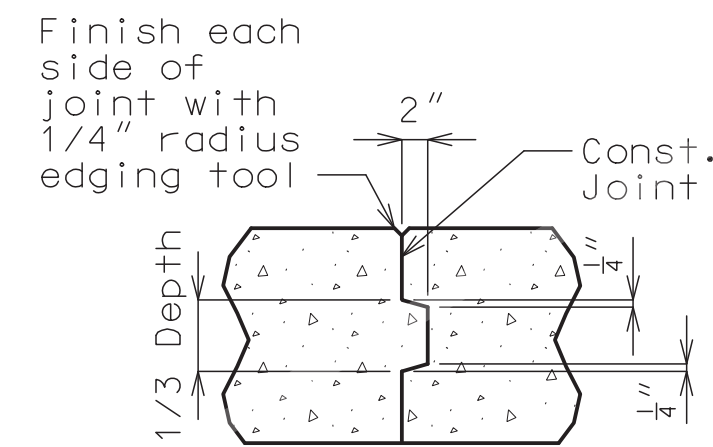
Note: New wearing surface not shown for clarity.

BRIDGE APPROACH SLAB (MAJOR)

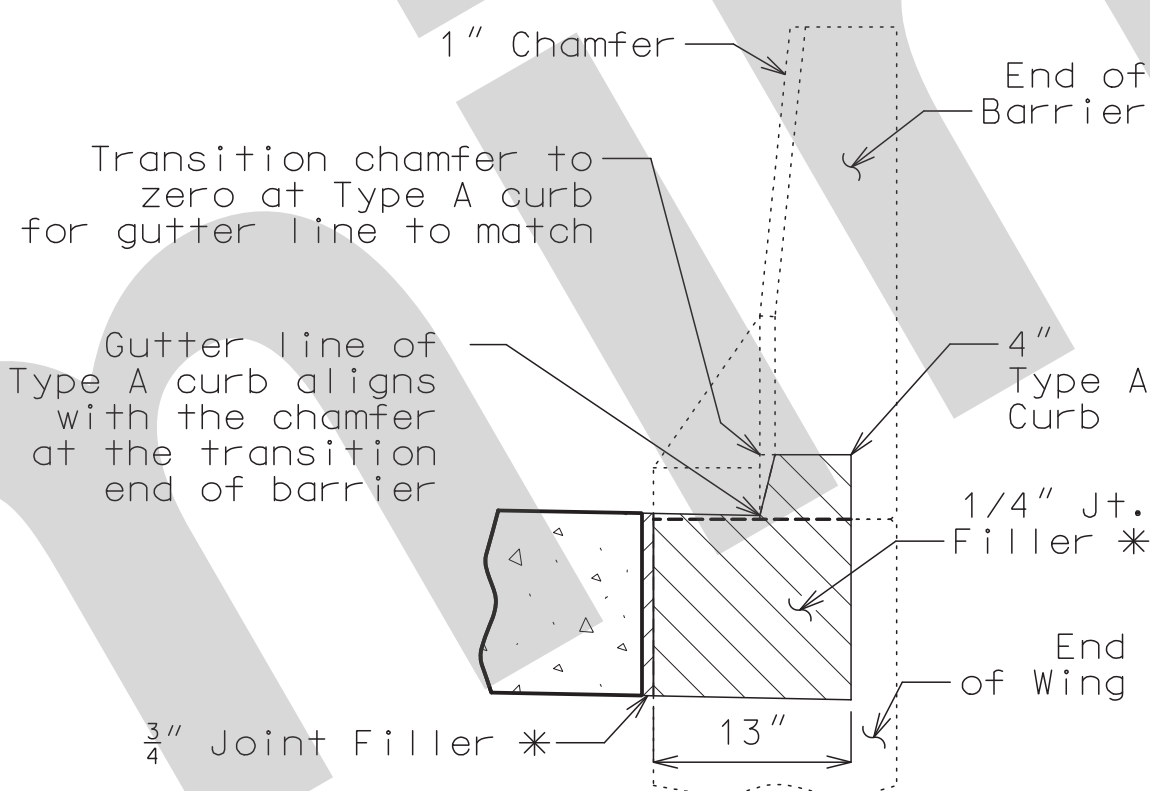
Note: This drawing is not to scale. Follow dimensions.



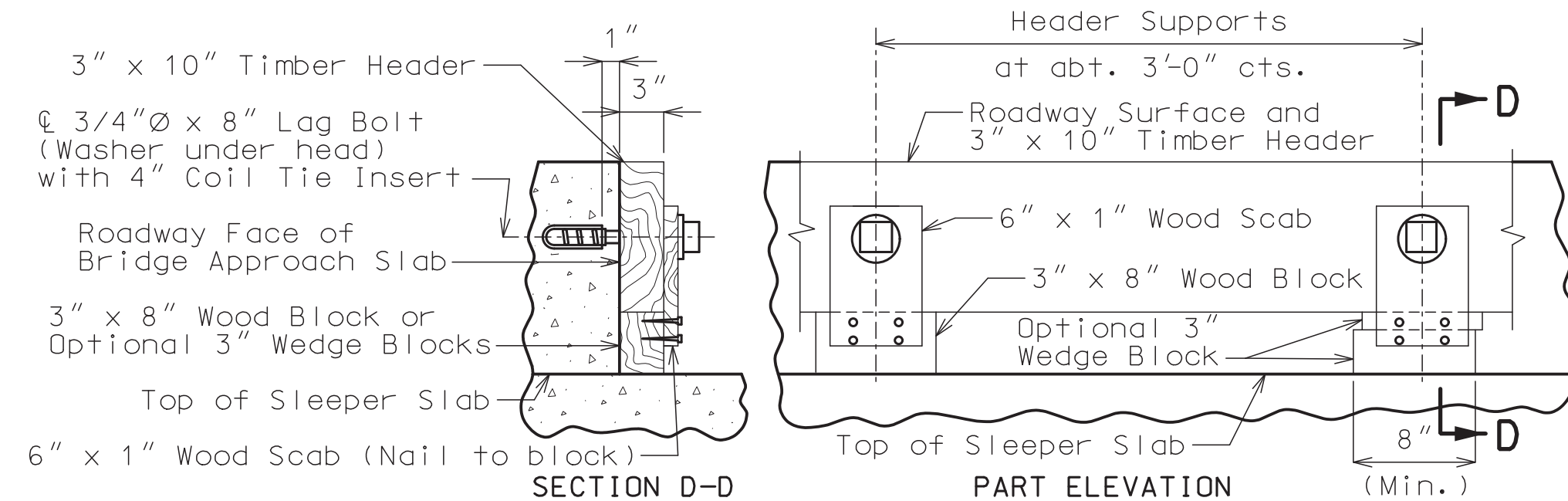
UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 50± splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.



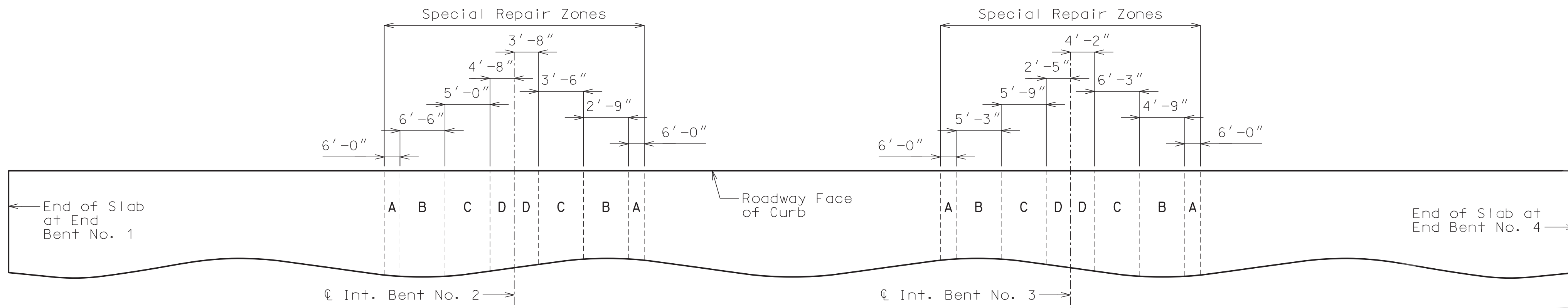
DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 8
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PROJECT NO.	
BRIDGE NO. A10833	

DESCRIPTION	DATE

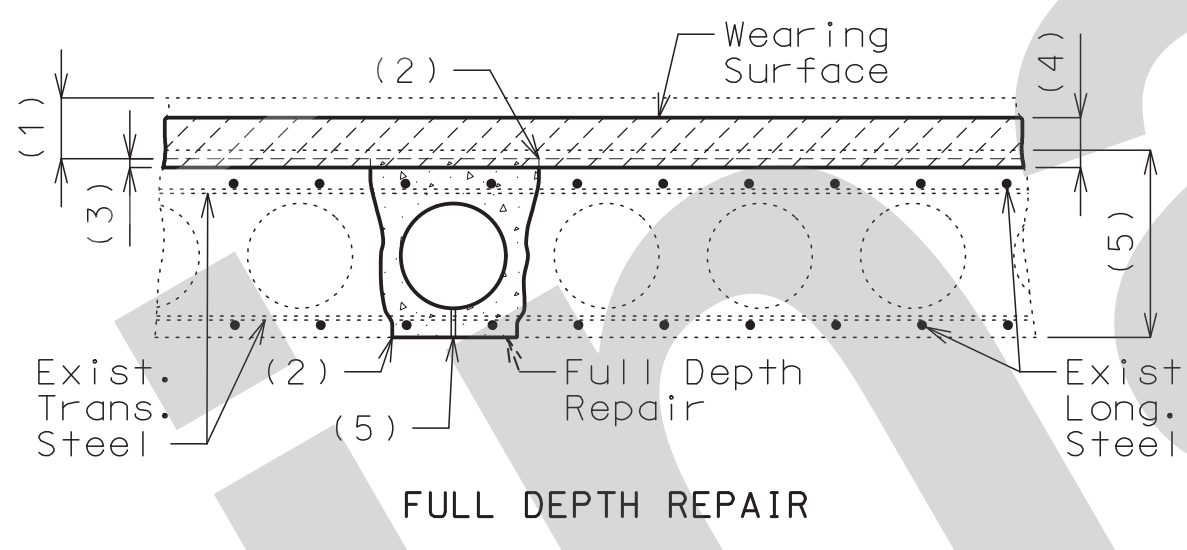
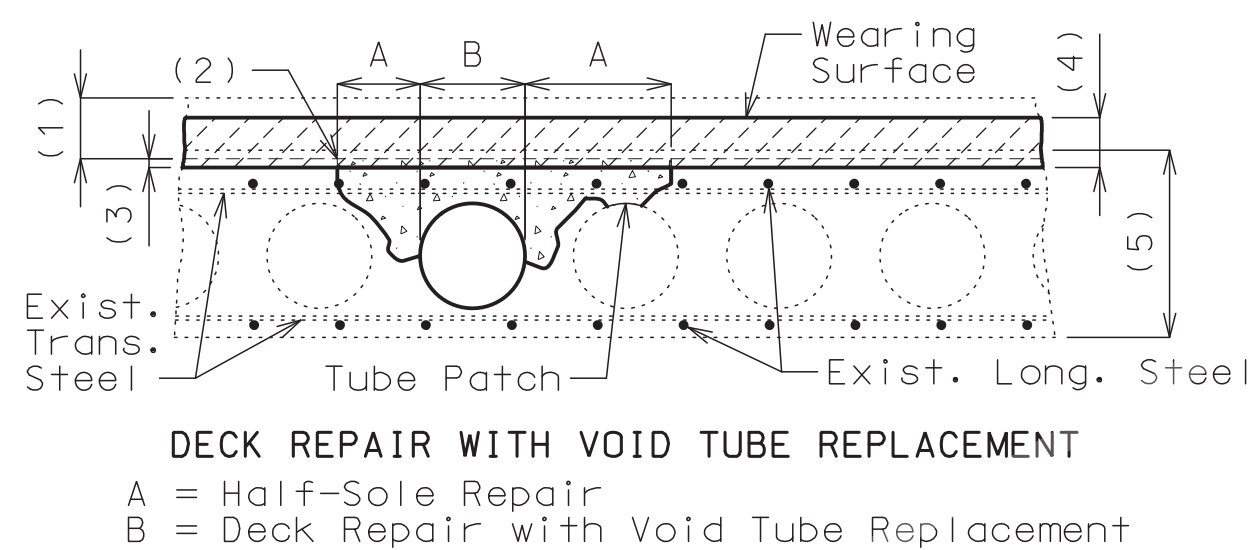
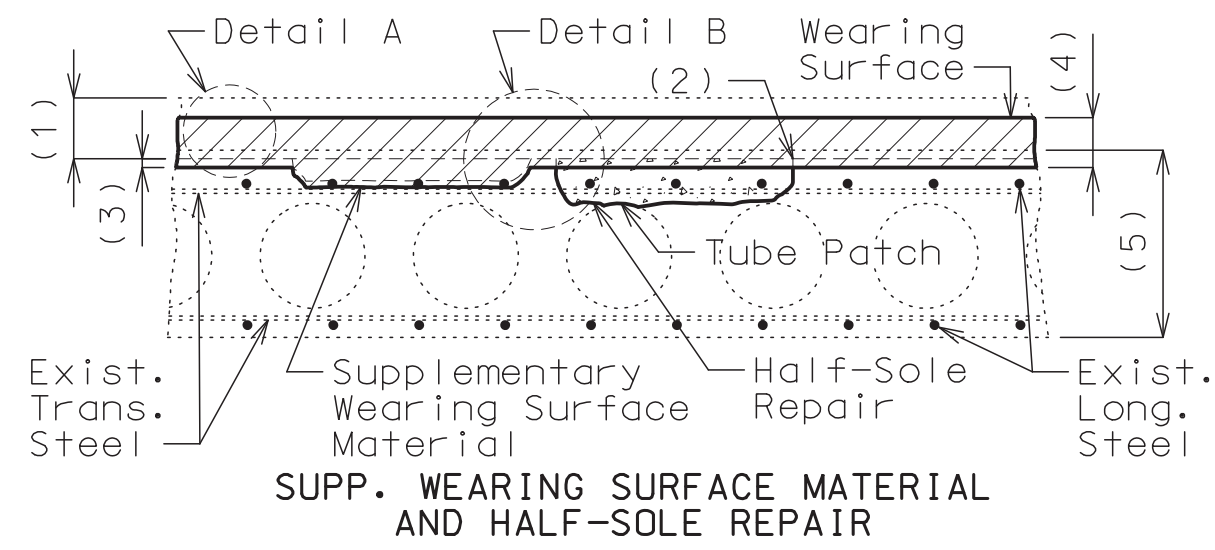
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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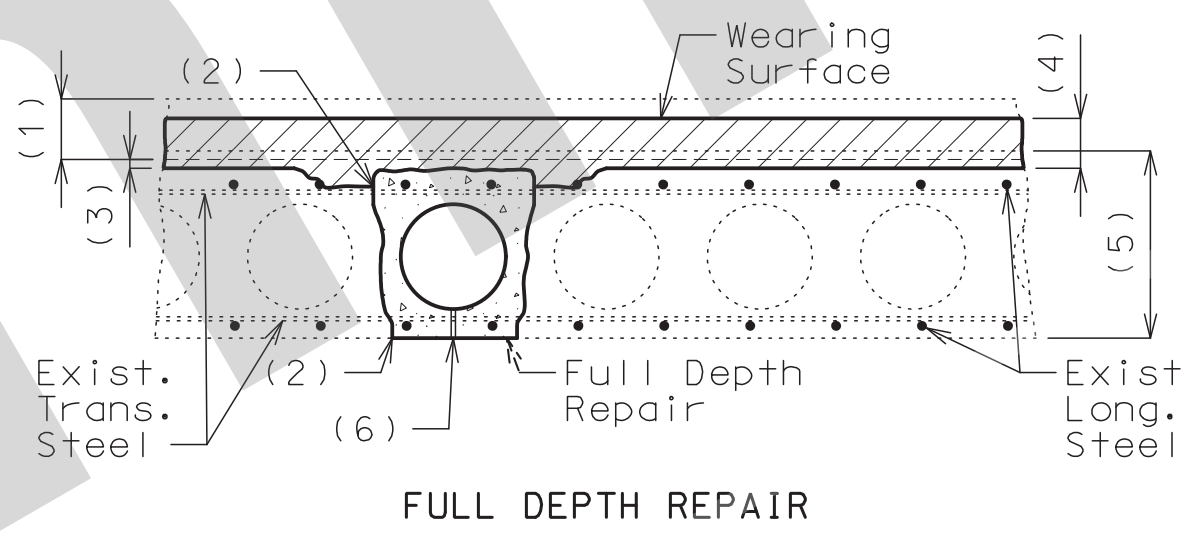
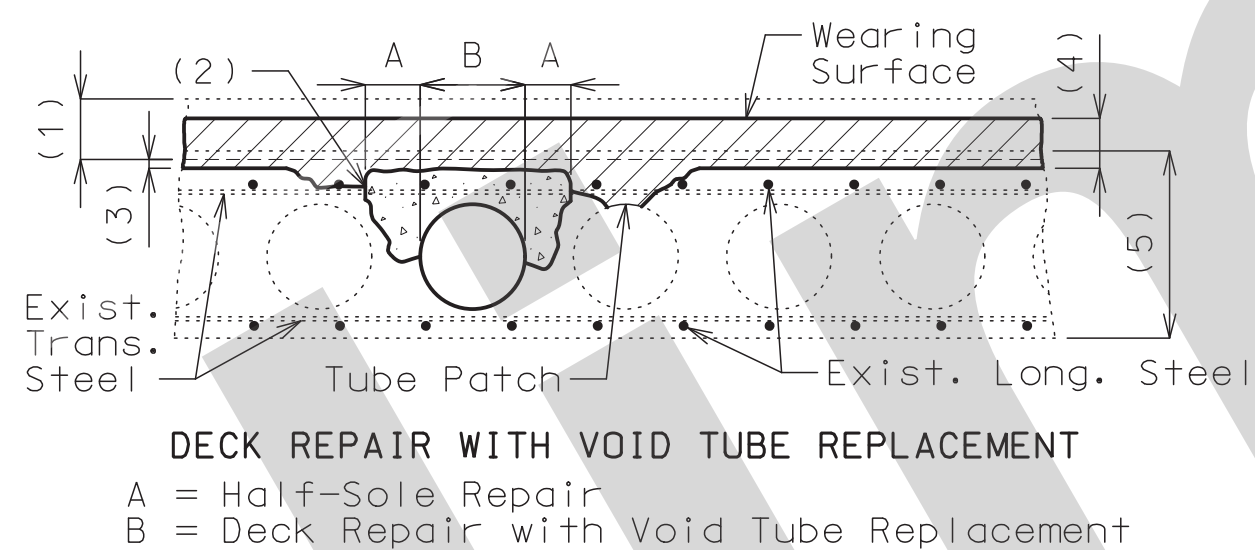
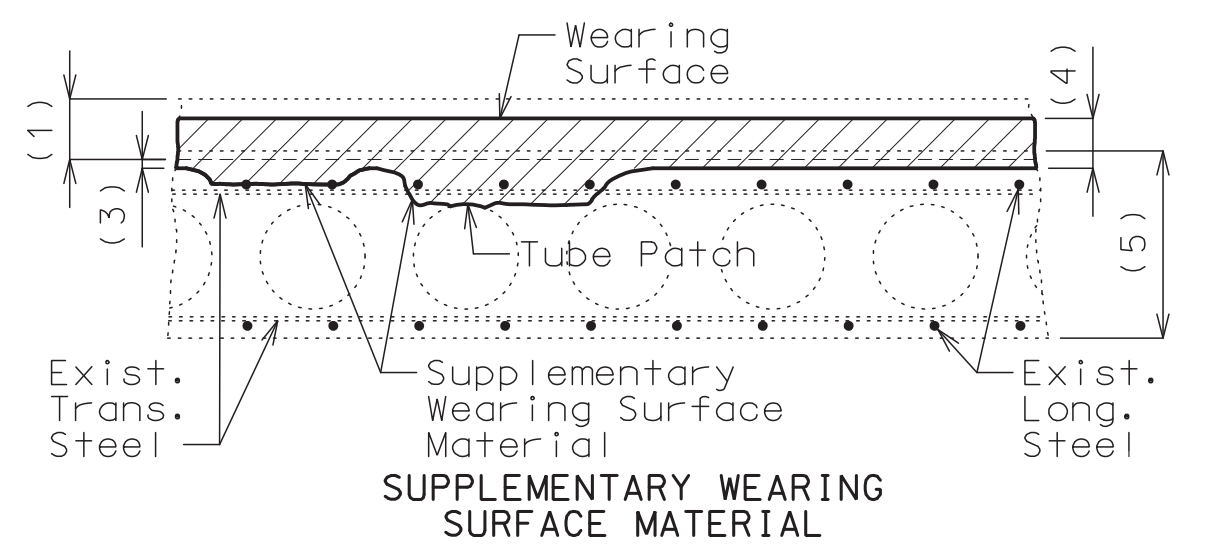
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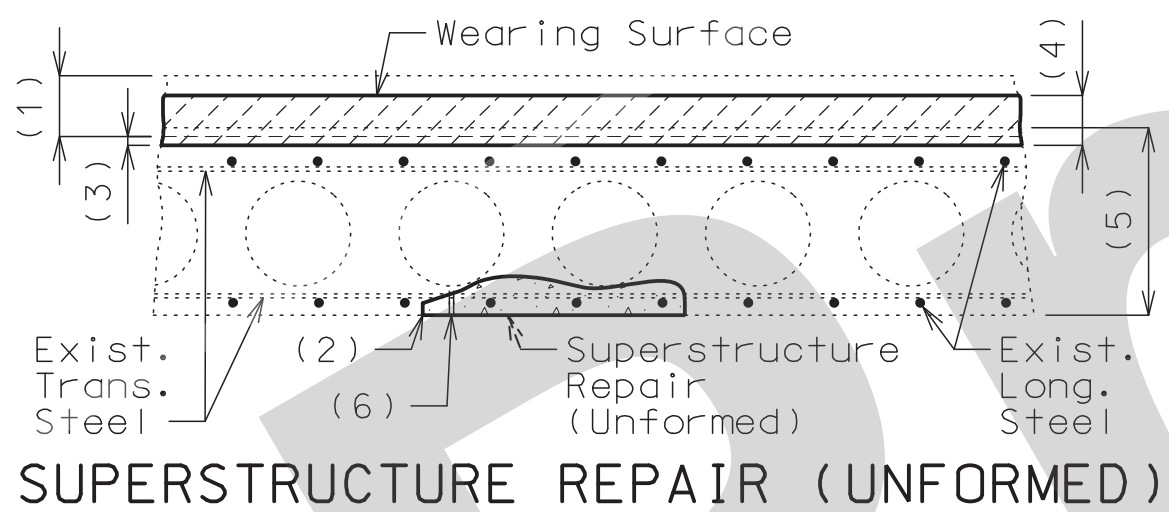
PART PLAN OF SLAB SHOWING SPECIAL REPAIR ZONES



DECK REPAIR INSIDE SPECIAL REPAIR ZONES (BEFORE HYDRO DEMOLITION)

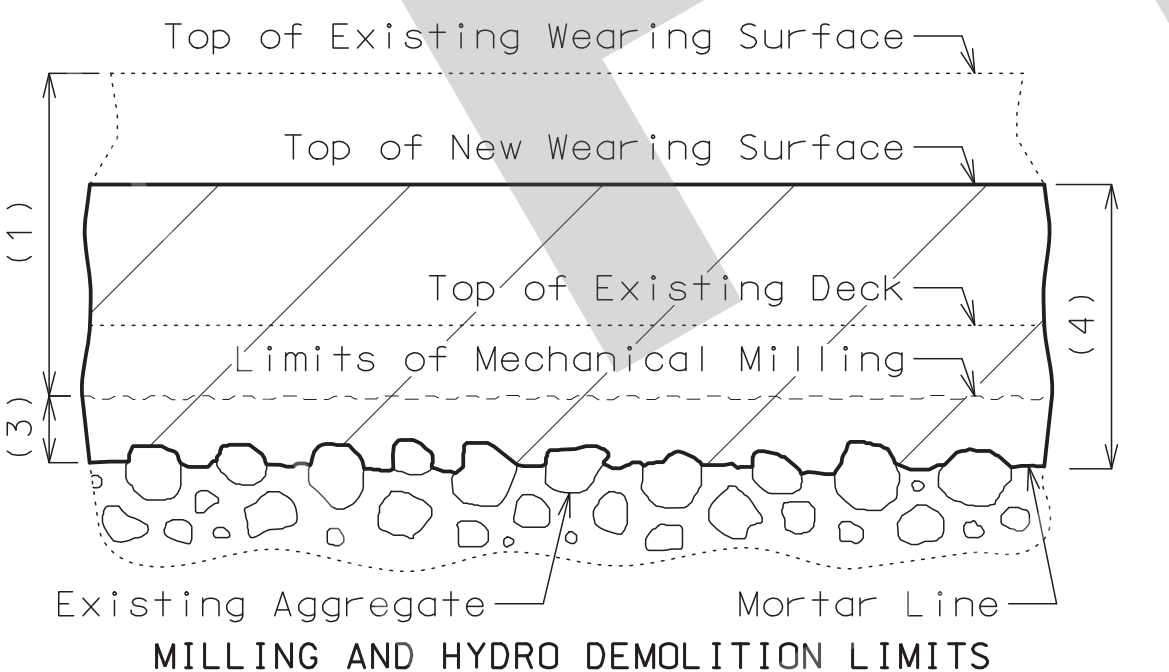


DECK REPAIR OUTSIDE SPECIAL REPAIR ZONES (AFTER HYDRO DEMOLITION)

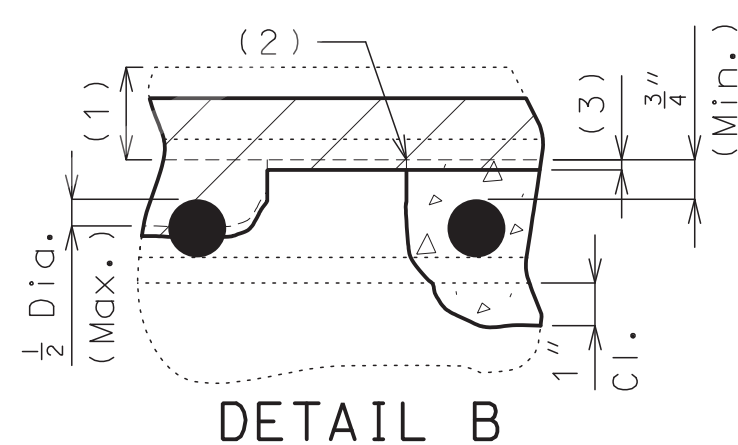


SUPERSTRUCTURE REPAIR (UNFORMED)

- (1) Removal of existing 1 3/4"± concrete wearing surface plus 1/2" of existing deck
- (2) 1" vertical side shall be established outside the deteriorated area.
- (3) Total surface hydro demolition of sound concrete, measured to mortar line:
 1/4" minimum inside special repair zones
 1/2" minimum outside special repair zones
- (4) Modified Latex concrete wearing surface:
 1 3/4" minimum inside special repair zones
 2" minimum outside special repair zones
- (5) Original depth minus previous scarification
- (6) Restore existing weep hole, if encountered.



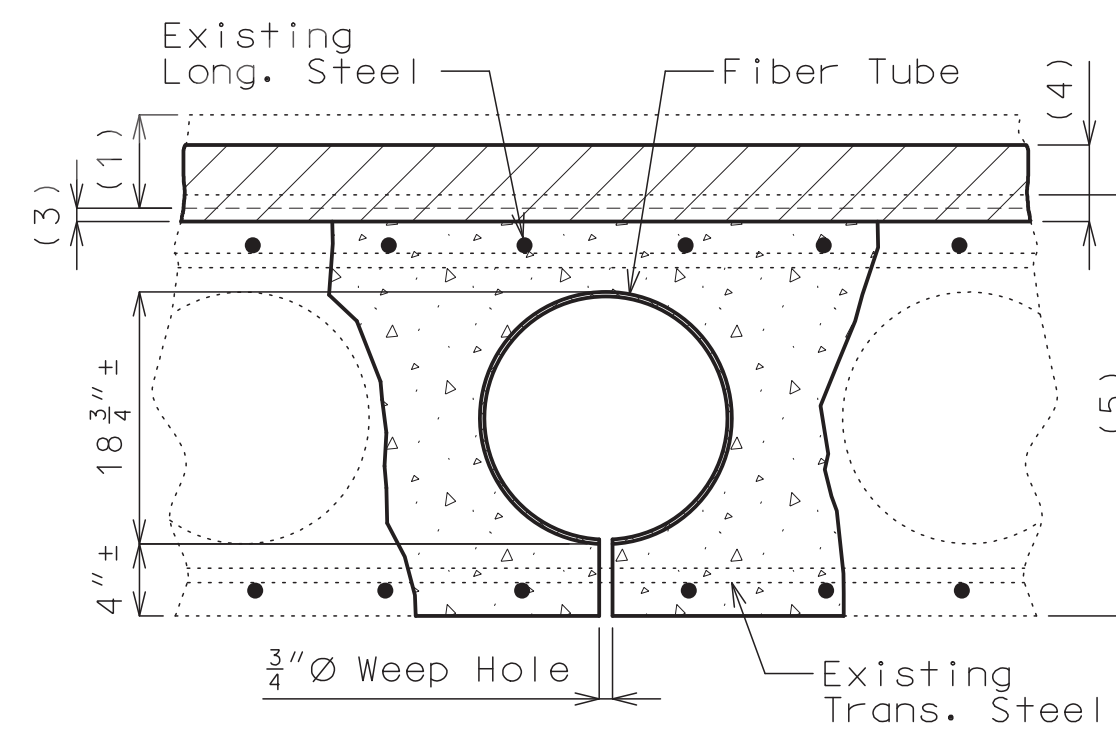
DETAIL A



DETAIL B

Supplementary Wearing Surface Material shall be used when only half the diameter or less of the top bar is exposed.

Clearance around top bar and around bottom bar at the intersection of top bar shall be required when more than half the diameter of the top bar is exposed.



FIBER VOID TUBE REPLACEMENT

Fiber tubes for producing voids shall have an approximate outside diameter of 18 3/4 inches and a wall thickness of 1/4 inch and shall be anchored to joists carrying the floor form at not more than 4-foot centers.

One 3/4"Ø weep hole shall be provided at 2 inches from each end of each new void.

DECK REPAIR DETAILS

Deck Repair Notes:

Order of Repair:

1. Remove existing wearing surface plus 1/2" of existing deck.
2. Power wash deck to identify sound and unsound existing deck repair.
3. Inside special repair zones, complete the following repairs:
 - a. Removal of existing deck repair
 - b. Half-sole repair
 - c. Deck repair with void tube replacement
 - d. Full depth repair
4. Outside special repair zones, remove existing deck repair.
5. Complete total surface hydro demolition, removing 1/4" minimum of sound concrete inside special repair zones and removing 1/2" minimum of sound concrete and all deteriorated concrete outside special repair zones.
6. Sound deck and if needed complete incidental concrete removal.
7. Outside special repair zones, complete the following repairs:
 - a. Deck repair with void tube replacement
 - b. Full depth repair
8. Place new wearing surface including additional material for areas of monolithic deck repair.

Special Repair Zones:

Deck repair required in the areas designated as special repair zones shall be completed before hydro demolition in alphabetical sequence beginning with Zone A. Zones with the same letter designation may be repaired at the same time. Hydro demolition shall not move forward until the repairs in all special repair zones are completed and properly cured.

Any deck repair in areas not designated as a special repair zone shall be completed after hydro demolition.

Removal and deck repair shall be completed in one special repair zone and concrete shall have attained a compressive strength of 3200 psi before work can be started in the next special repair zone.

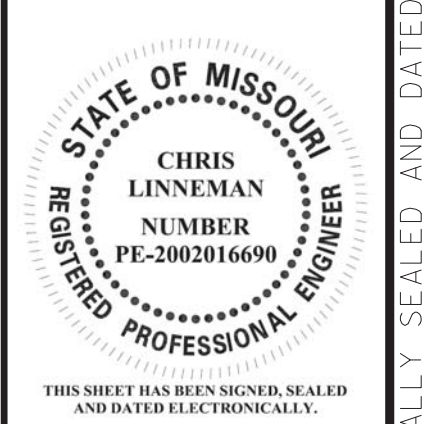
If any single repair area does not exceed 4 square feet in size and the total repair area within a special repair zone does not exceed 12 square feet, the special repair zone may be repaired at the same time as an adjacent zone.

Void Repair:

Any damage sustained to the void tube as a result of the contractor's operations shall be patched or replaced as required by the engineer at the contractor's expense.

An exposed void in the deck shall be patched as approved by the engineer in a manner that shall maintain the void area completely free of concrete. Cost of patching an exposed void will be considered completely covered by the contract unit price for Half-Sole Repair inside special repair zones and Monolithic Deck Repair outside special repair zones.

When a deteriorated portion of the void tube is beyond the point of patching as determined by the engineer, the portion of the deteriorated void tube shall be replaced. The void area shall be maintained completely free of concrete. Cutting of the longitudinal reinforcing steel will not be permitted. The fiber tubes for producing the voids shall have an outside diameter with the wall thickness the same as the existing tubes and anchored at not more than the original spacing. Cost of replacing the void tube will be considered completely covered by the contract unit price for Deck Repair with Void Tube Replacement. Measurement will be horizontal projection of the area of exposed tube in plan.



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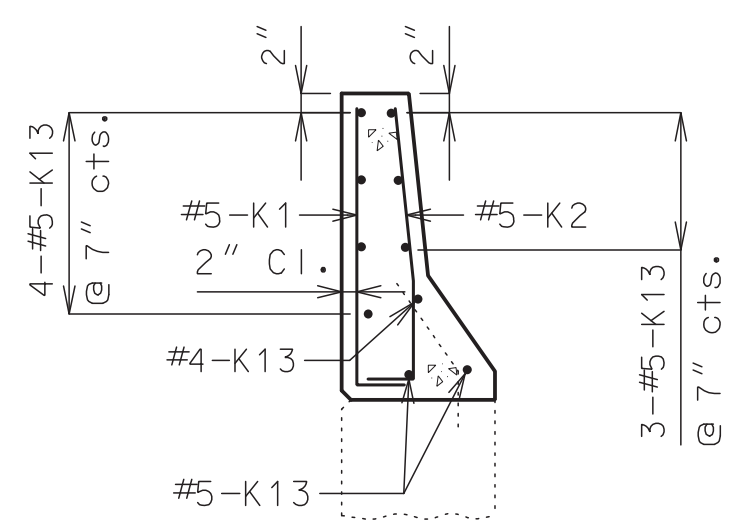
PROJECT NO.	
BRIDGE NO. A10834	

DATE	DESCRIPTION

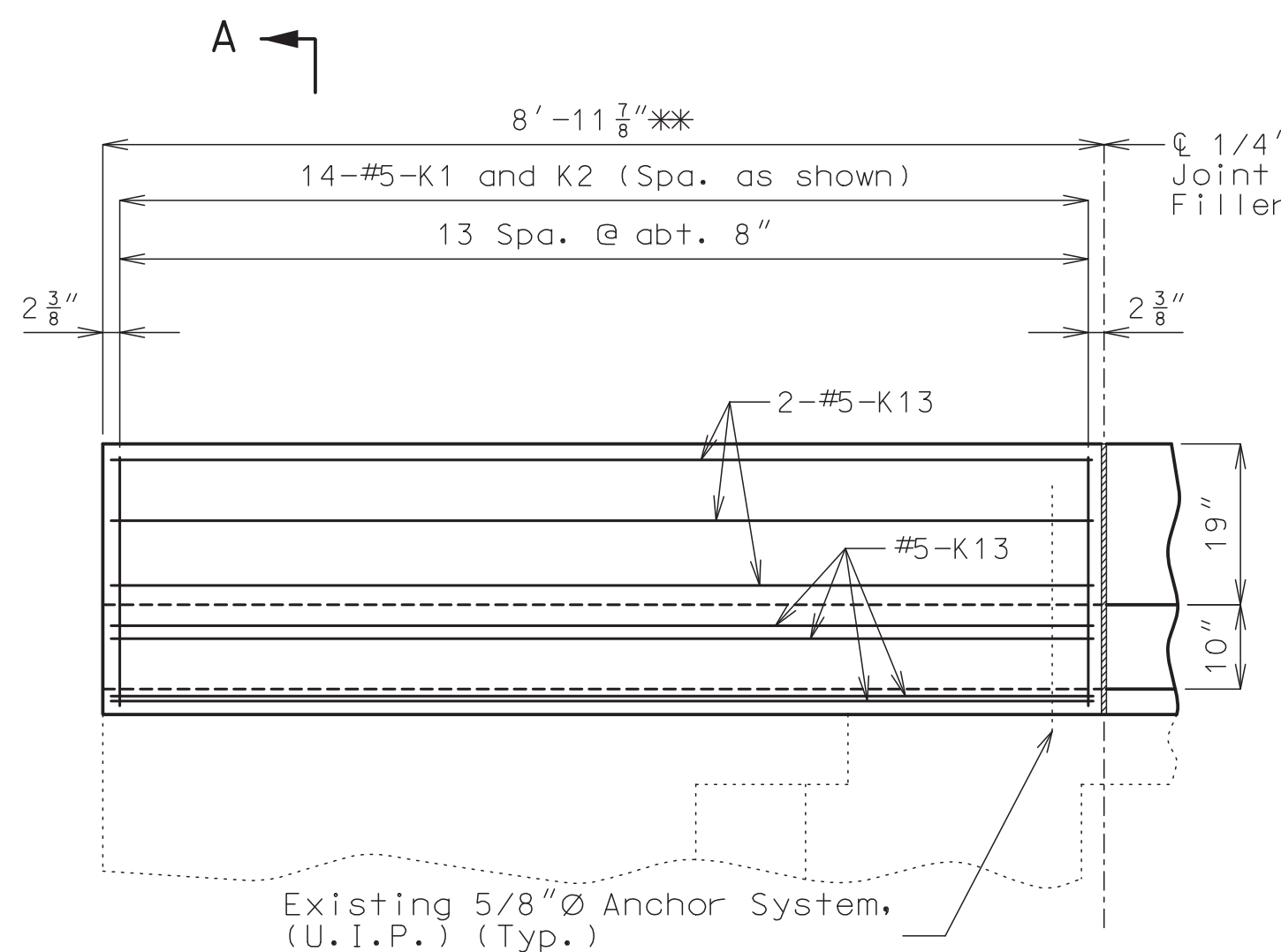
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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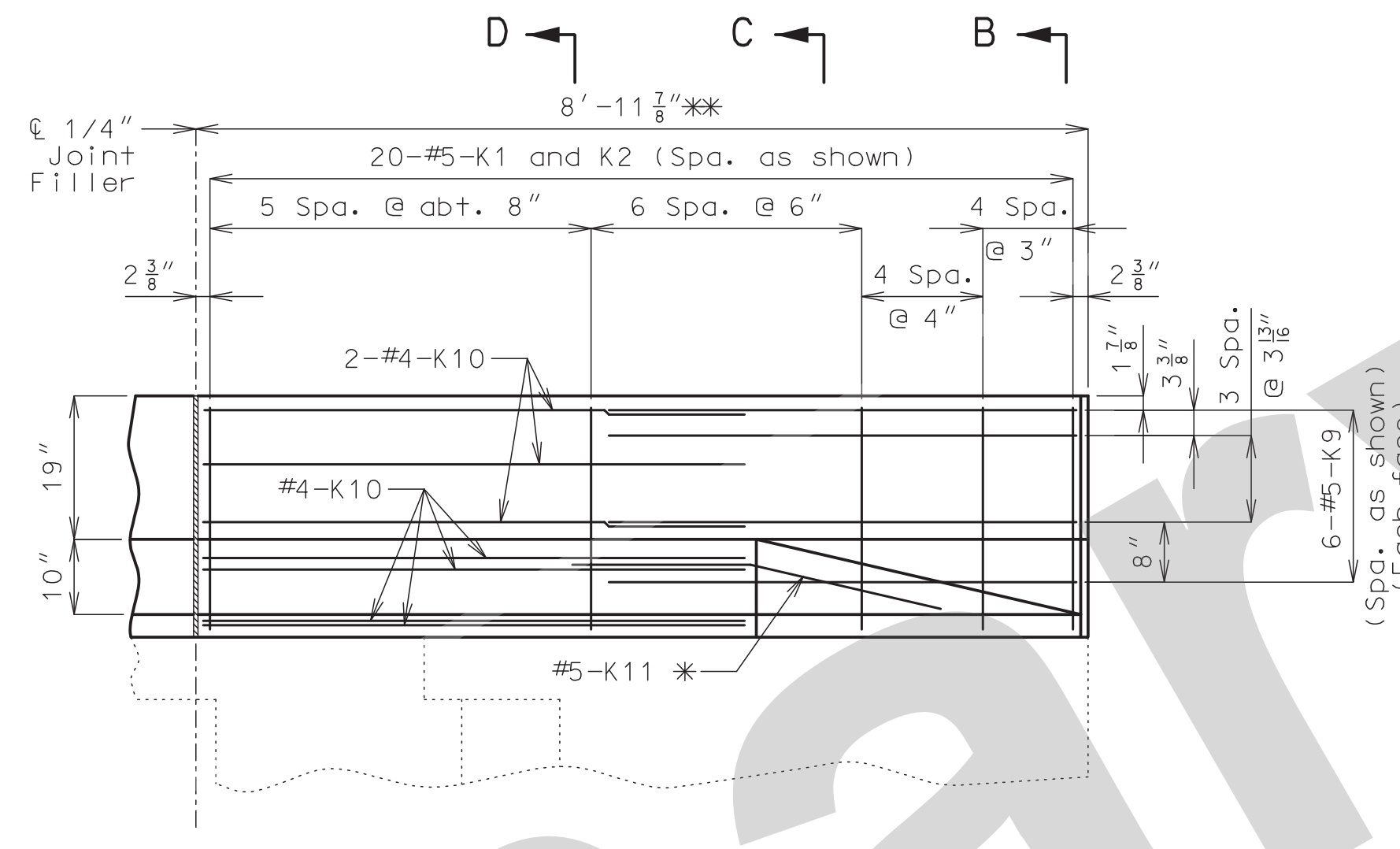
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Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-5945100
Missouri Certificate of Authority: 001578



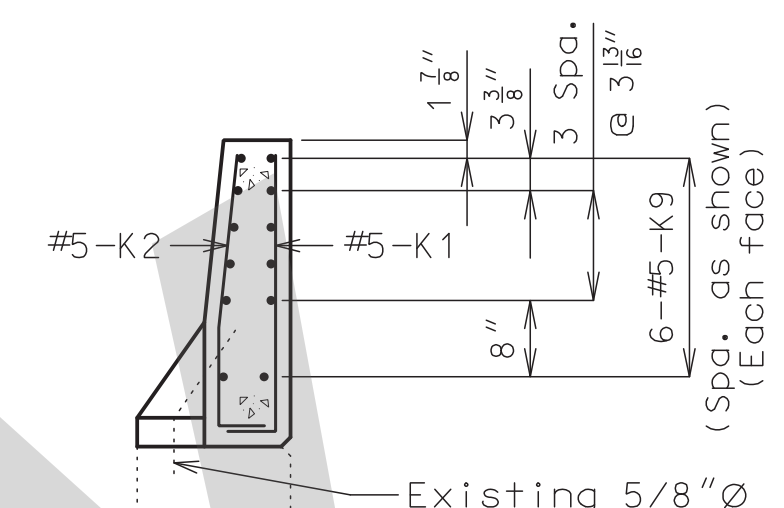
SECTION A-A



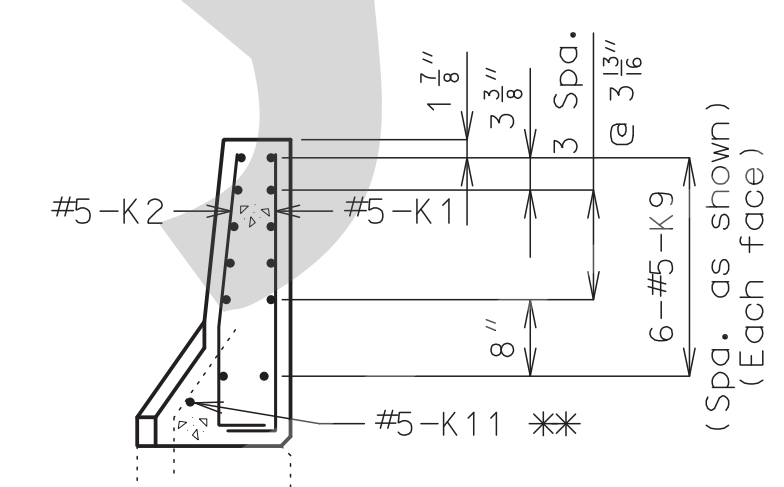
ELEVATION



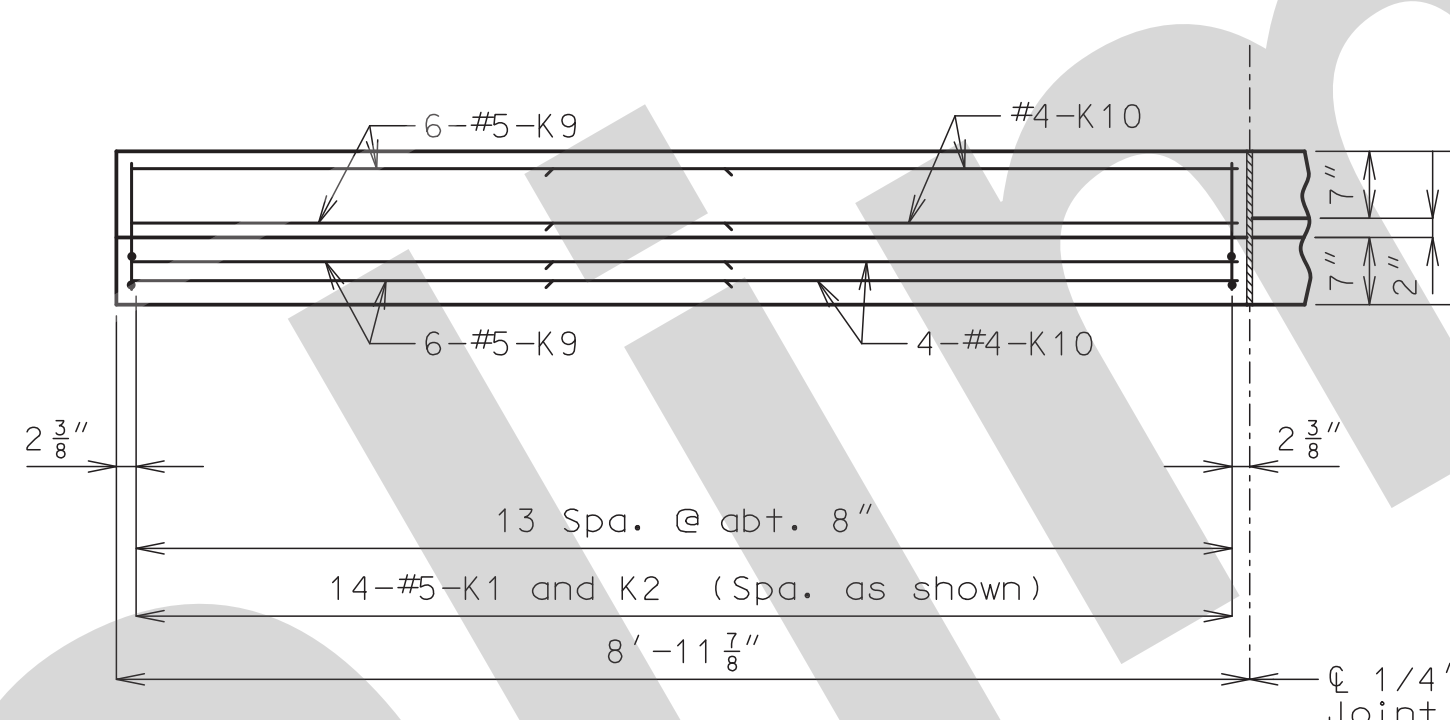
ELEVATION



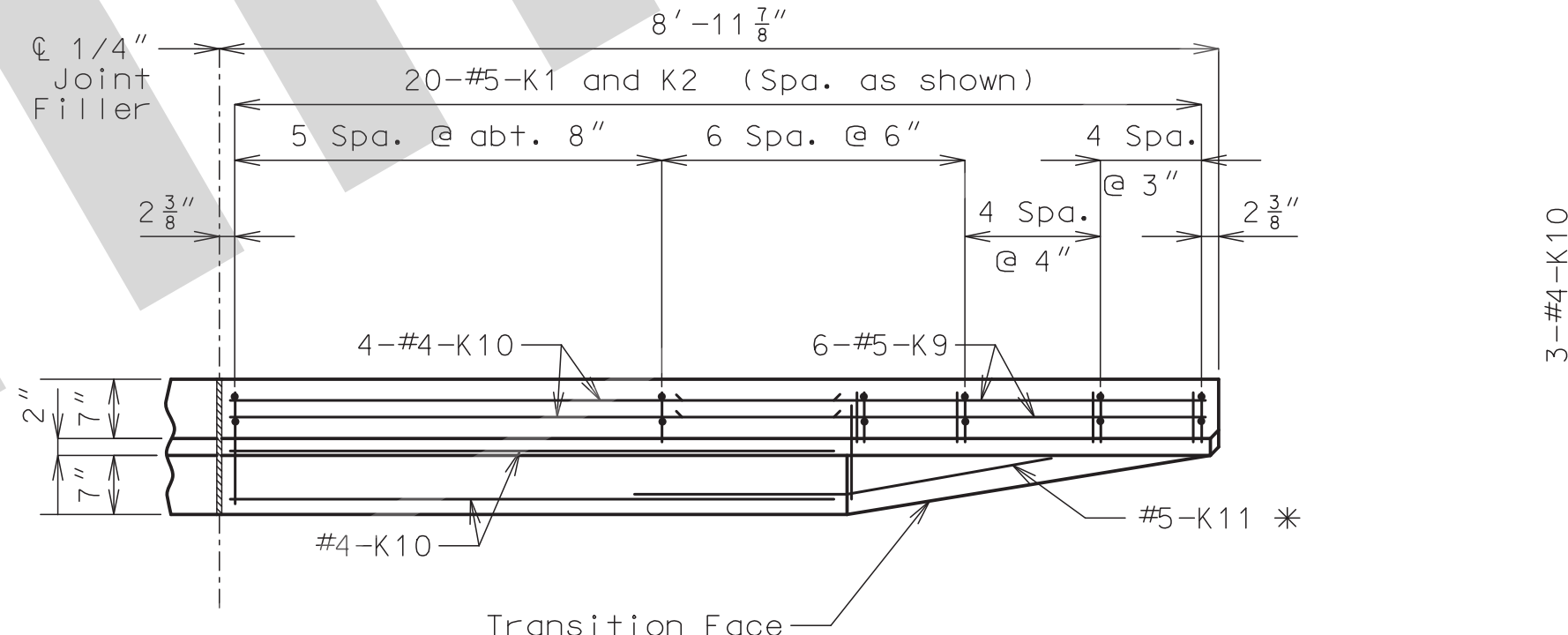
SECTION B-B



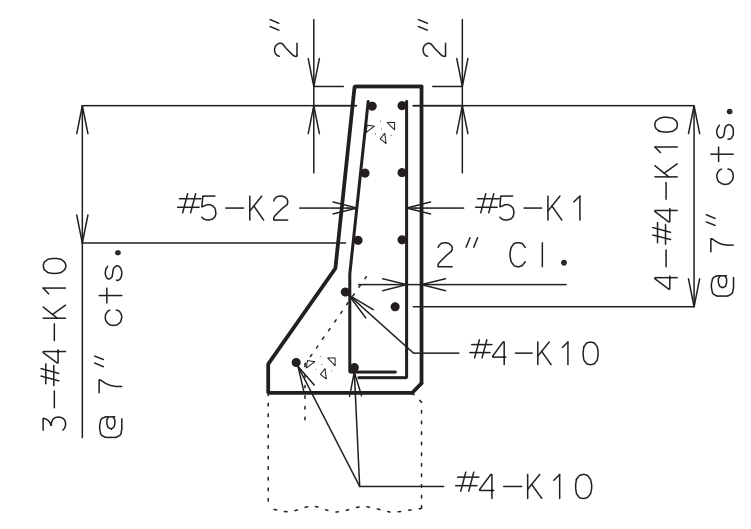
SECTION C-C



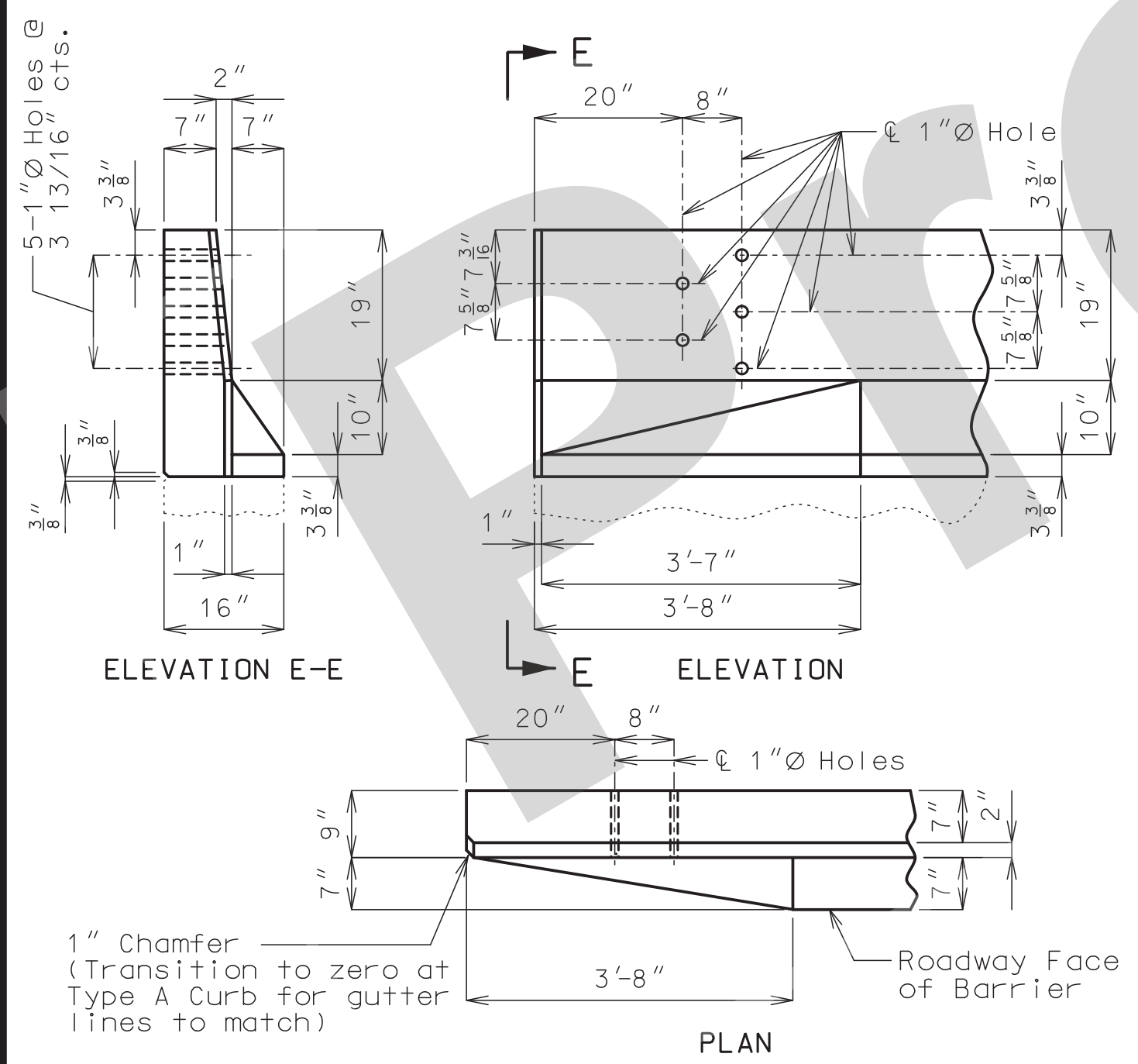
PLAN



PLAN



SECTION D-D



DETAILS OF GUARD RAIL ATTACHMENT

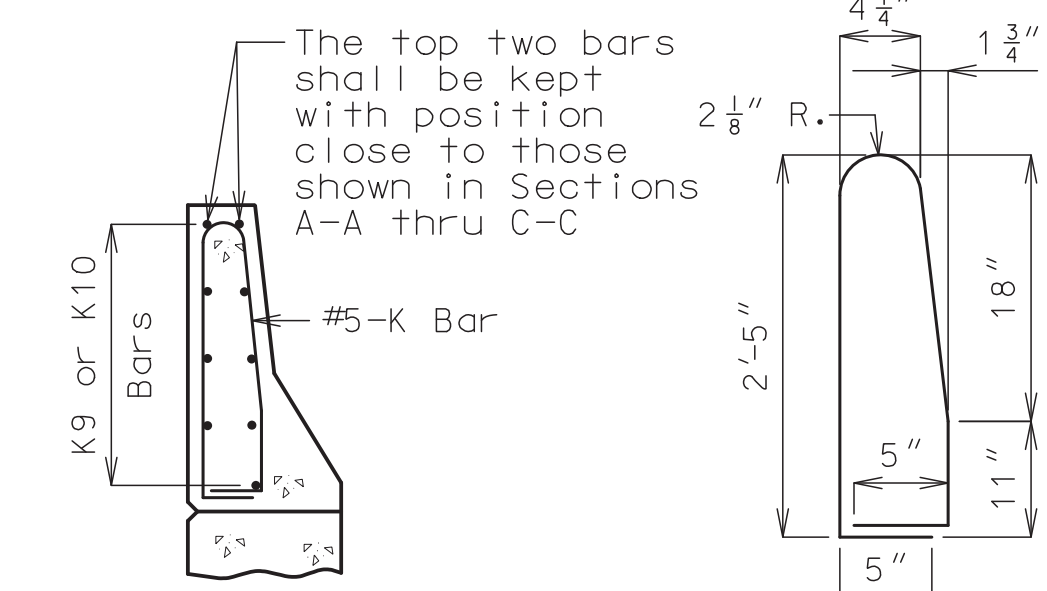
General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent. Use a minimum lap of 2'-7" between K9 and K10 bars.

TYPE B BARRIER AT END BENTS



K1-K2 BAR PERMISSIBLE ALTERNATE SHAPE

The K1-K2 bar combination may be furnished as one bar as shown, at the contractor's option.

DATE PREPARED: 8/6/2021
 ROUTE: I-55 STATE: MO
 DISTRICT: BR SHEET NO.: 5
 COUNTY: ST. LOUIS CITY
 JOB NO.: J613149
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.: A10834

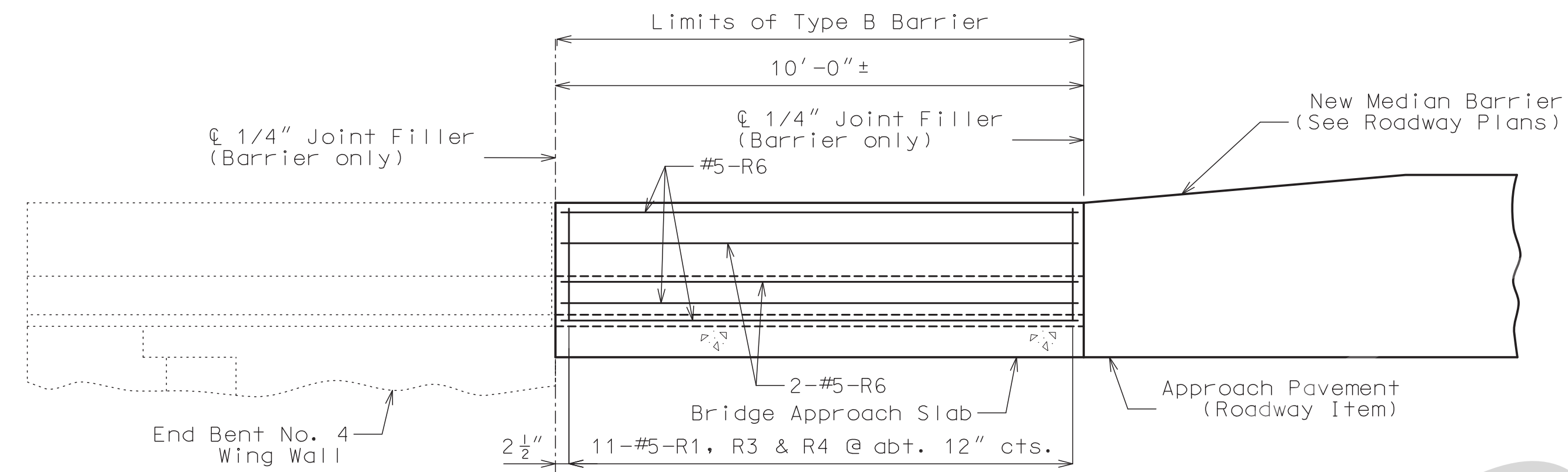
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

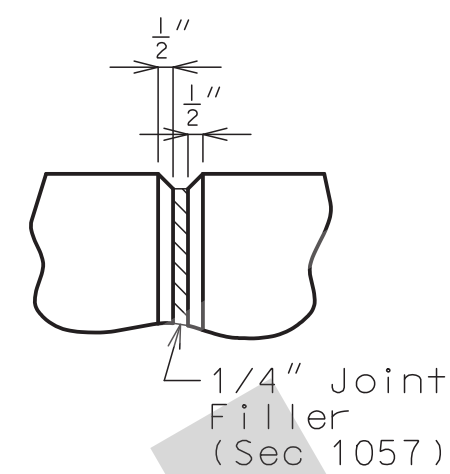
105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr, Suite 250
 St. Louis, MO 63021
 Missouri Certificate of Authority: 001578

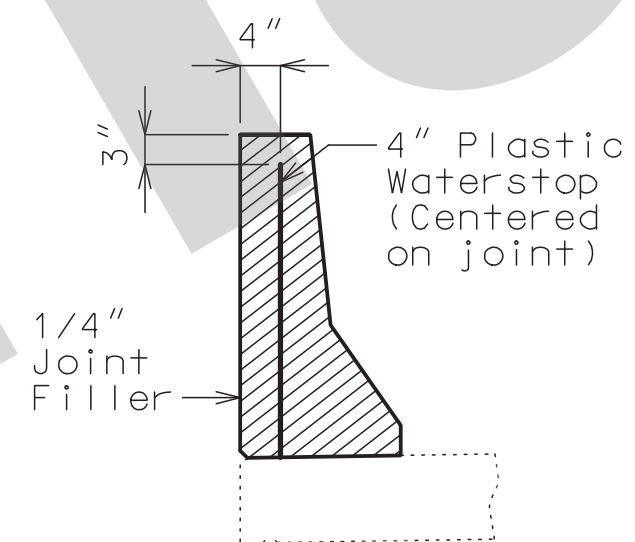
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED



PART ELEVATION OF RIGHT BARRIER AT BENT NO. 4



PART ELEVATION AT FORMED JOINT



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

General Notes:

Top of barrier shall be built parallel to grade with barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

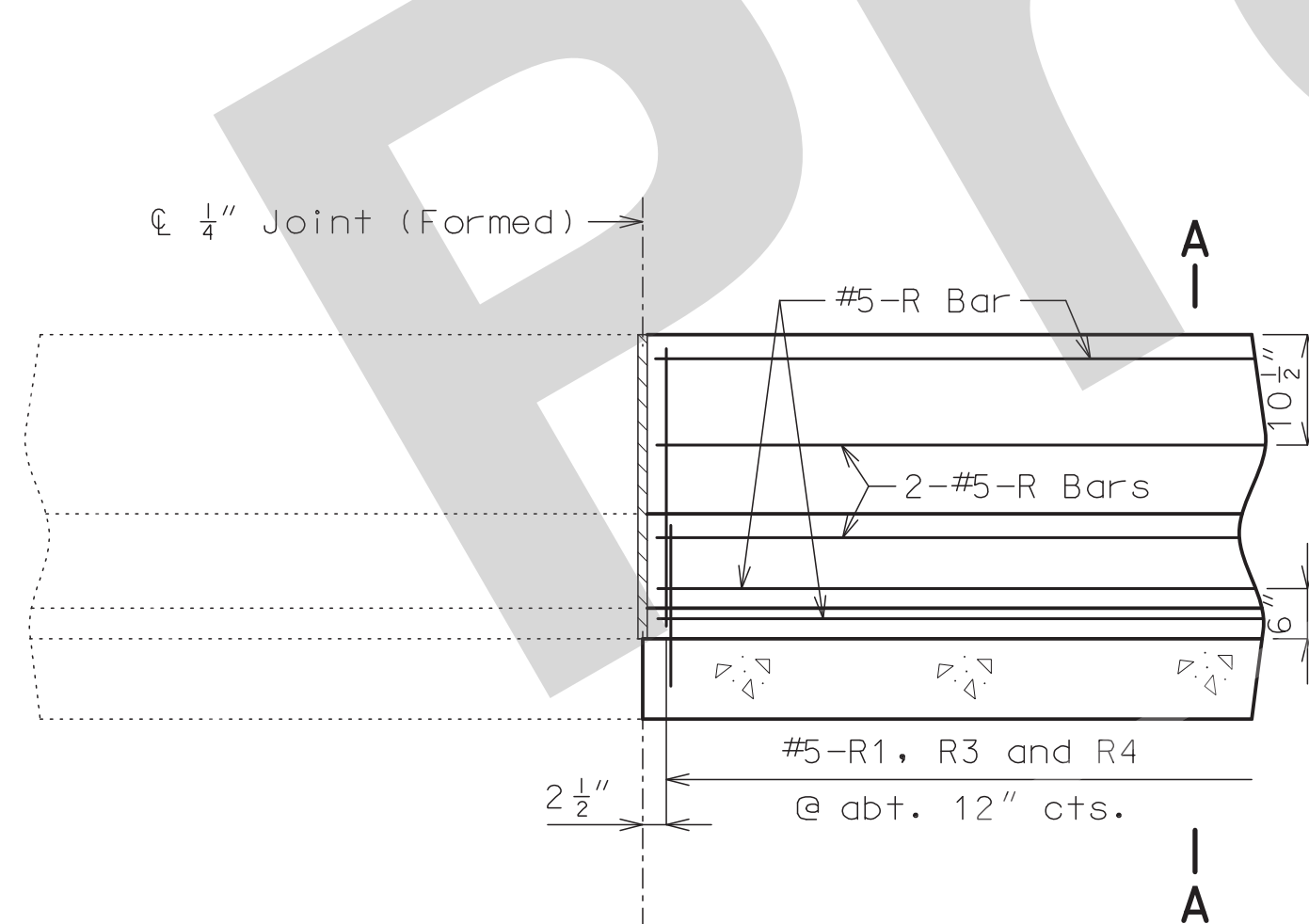
Concrete in the barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.

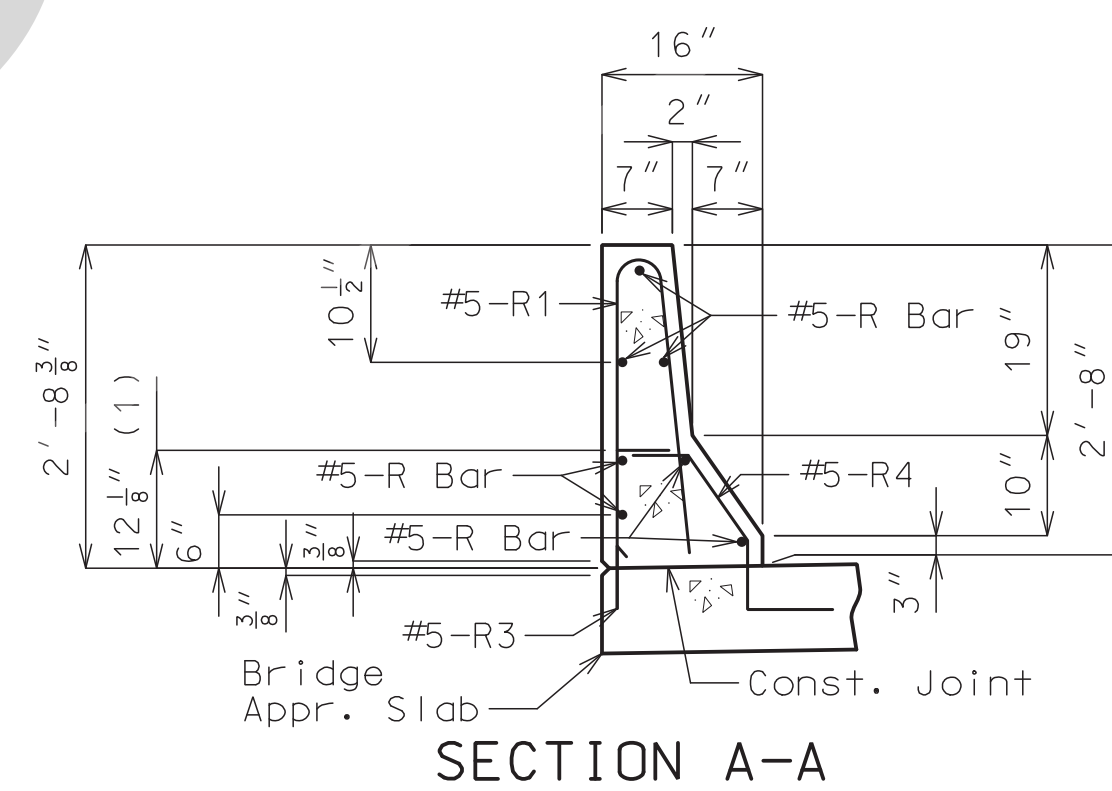
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER

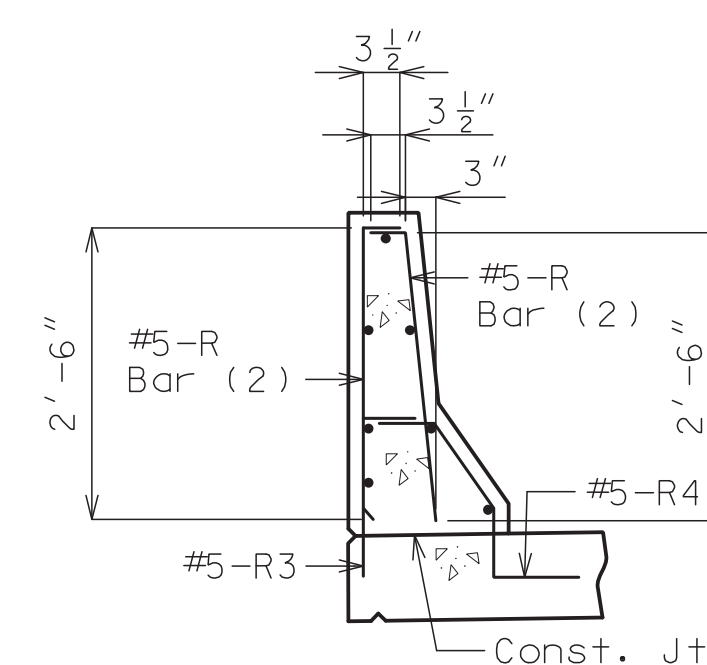


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.27 square feet.

(1) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(2) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

RIGHT TYPE B BARRIER ON APPROACH SLAB

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 9

Detailed JUN 2021
Checked JUN 2021



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10834	

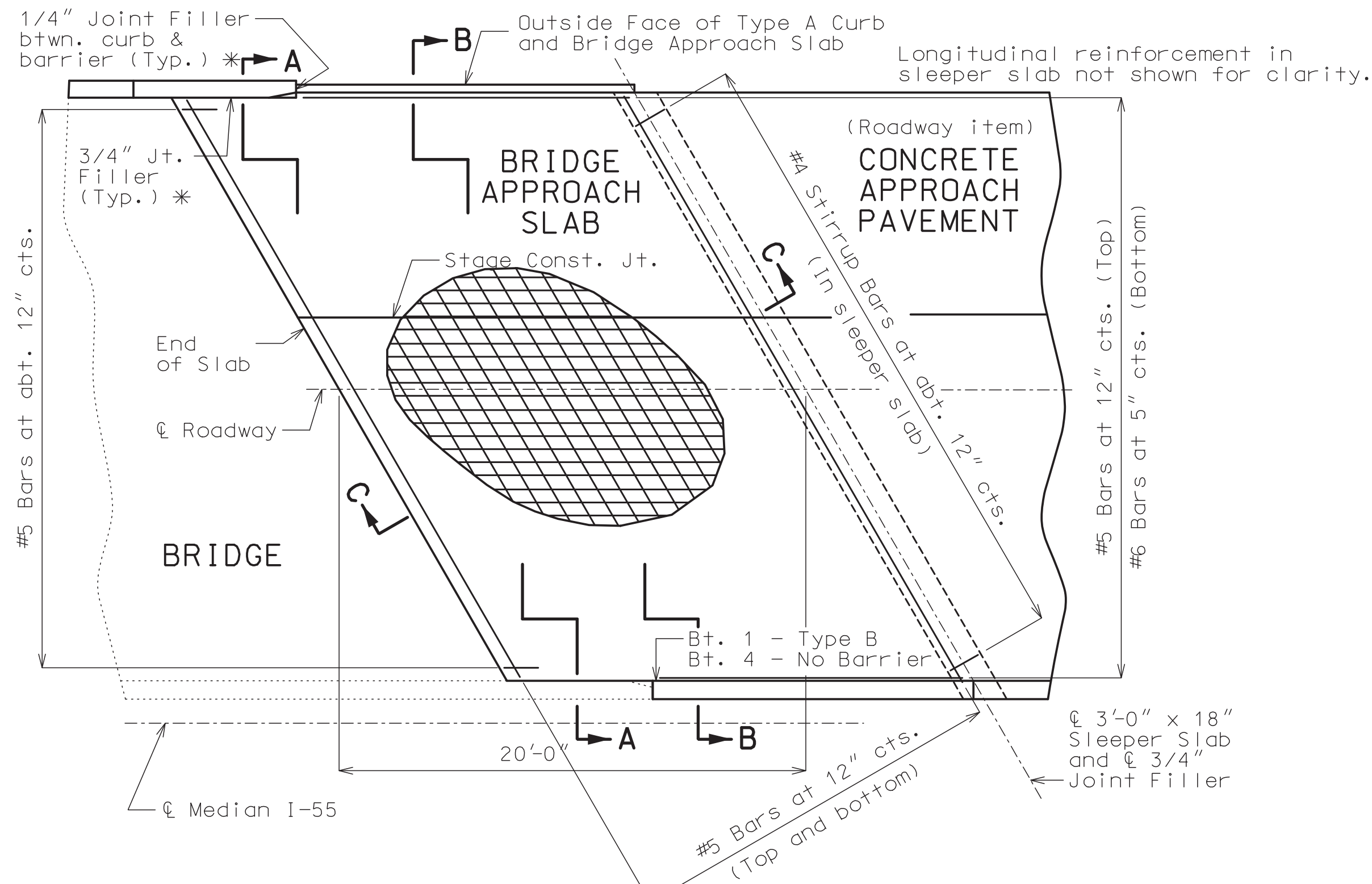
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

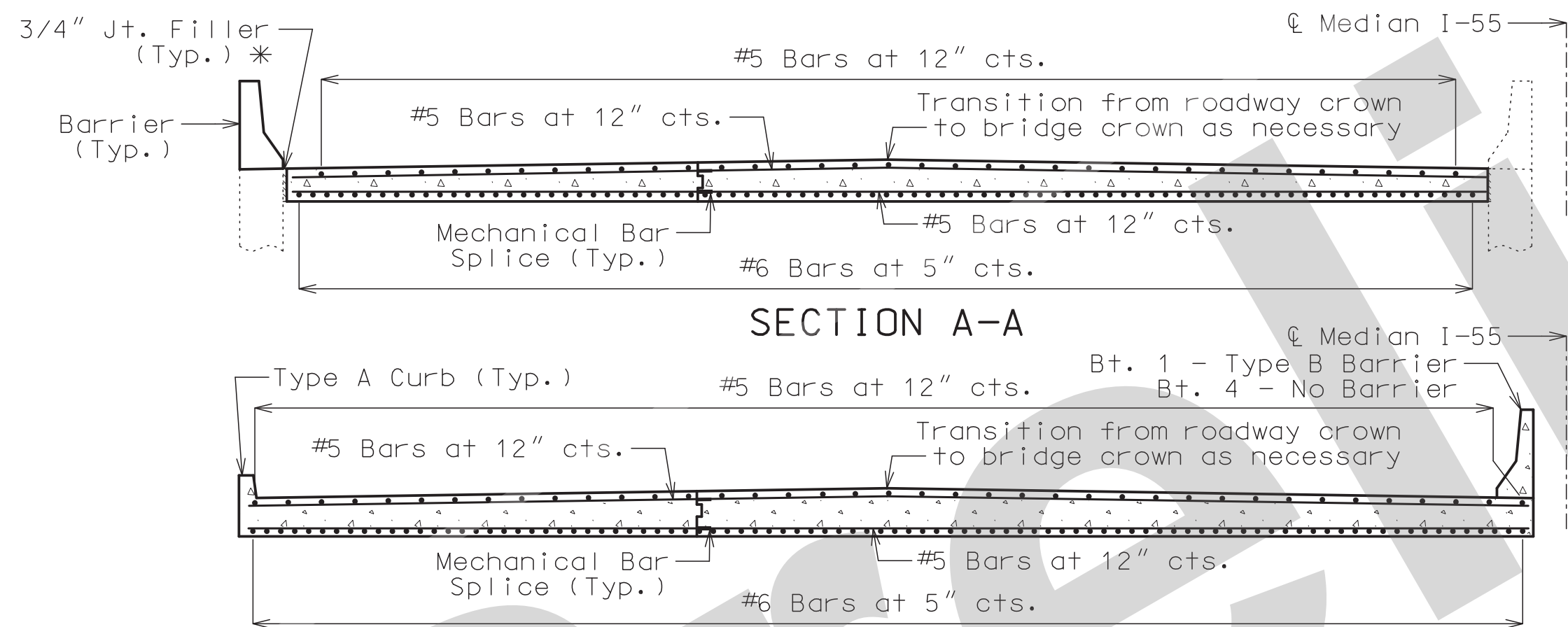
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

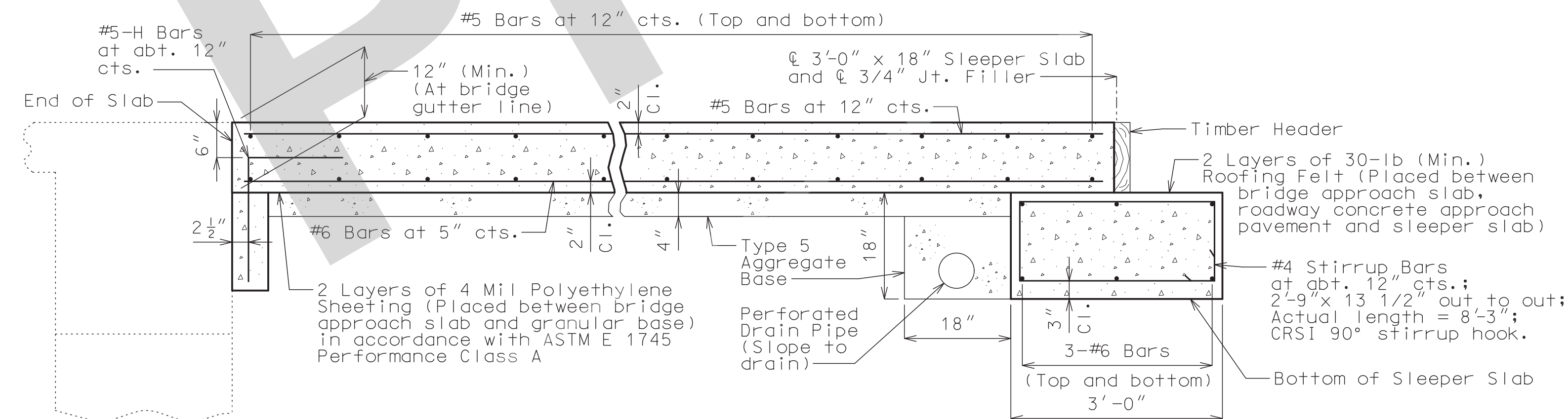


PART PLAN SHOWING REINFORCEMENT



SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

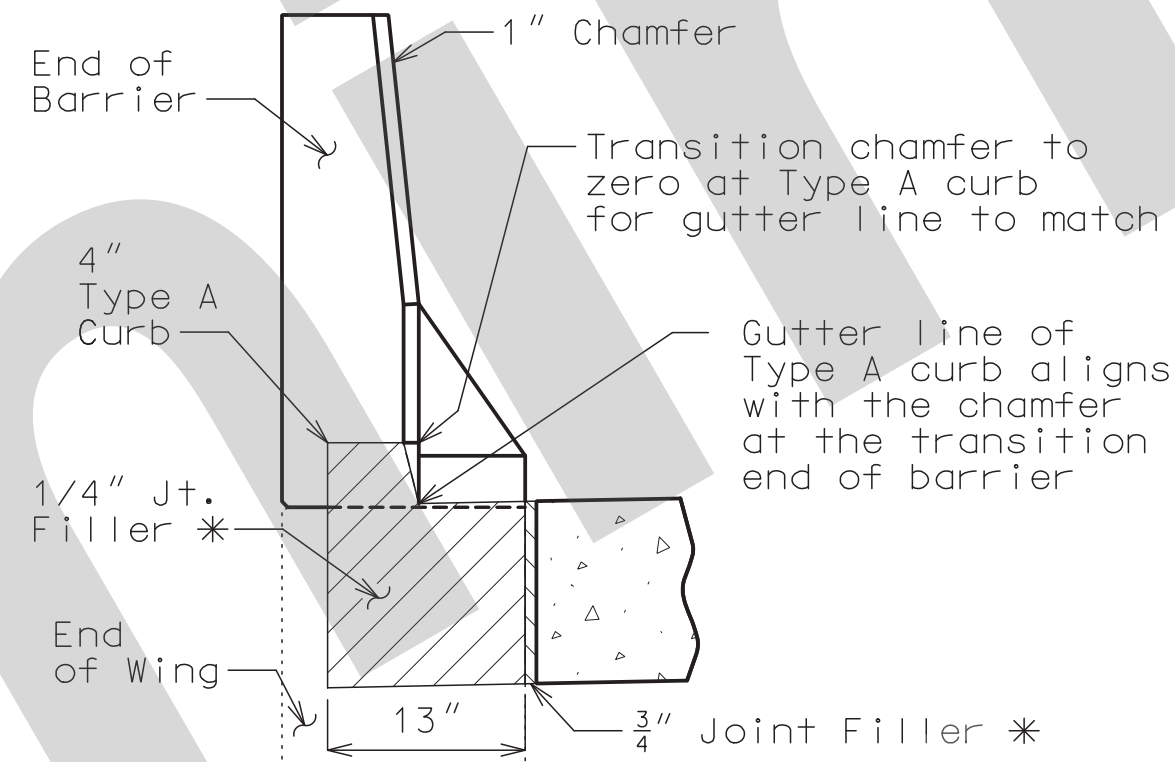
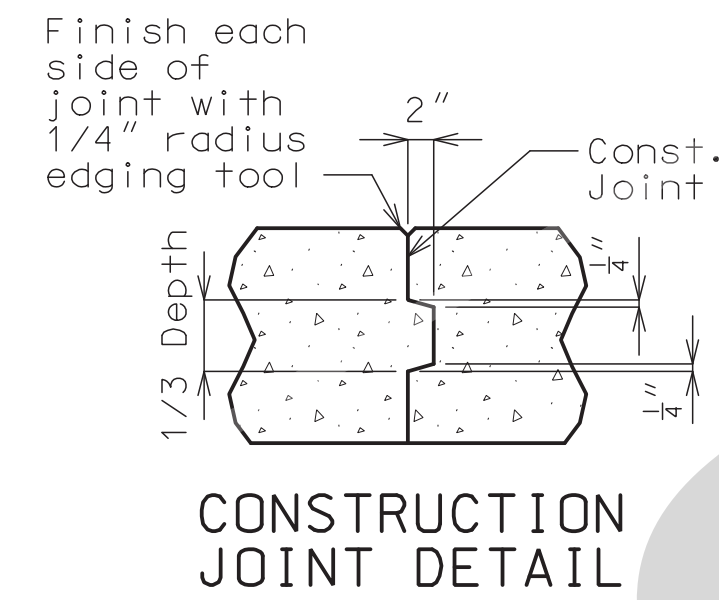
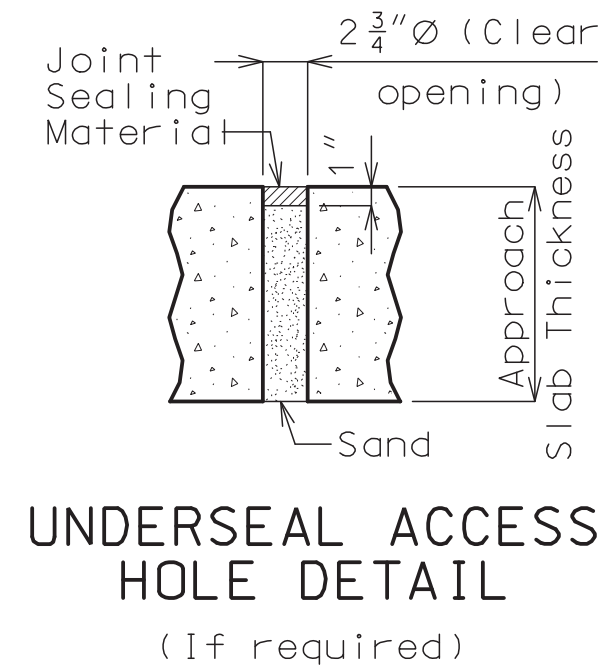


SECTION C-C

Note: New wearing surface not shown for clarity.

BRIDGE APPROACH SLAB (MAJOR)

Note: This drawing is not to scale. Follow dimensions.



SECTION BETWEEN BARRIER AND CURB

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 50± splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

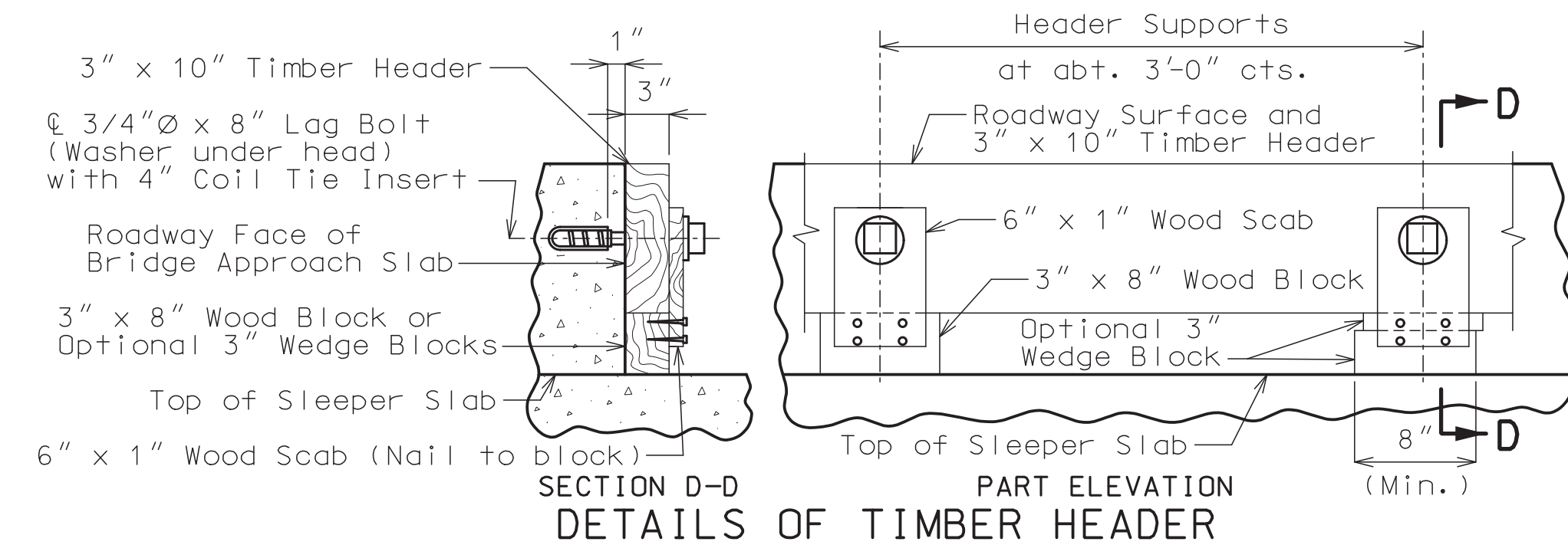
For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.



SECTION D-D DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 8
COUNTY ST. LOUIS CITY	
JOB NO. J6I3149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10834	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

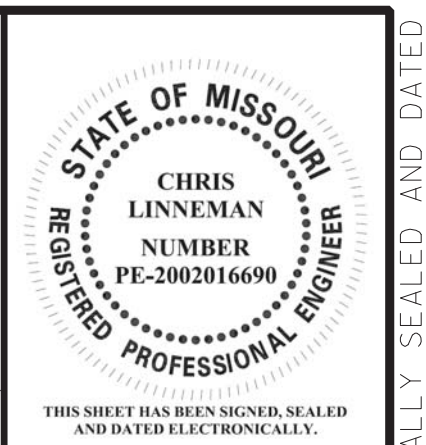
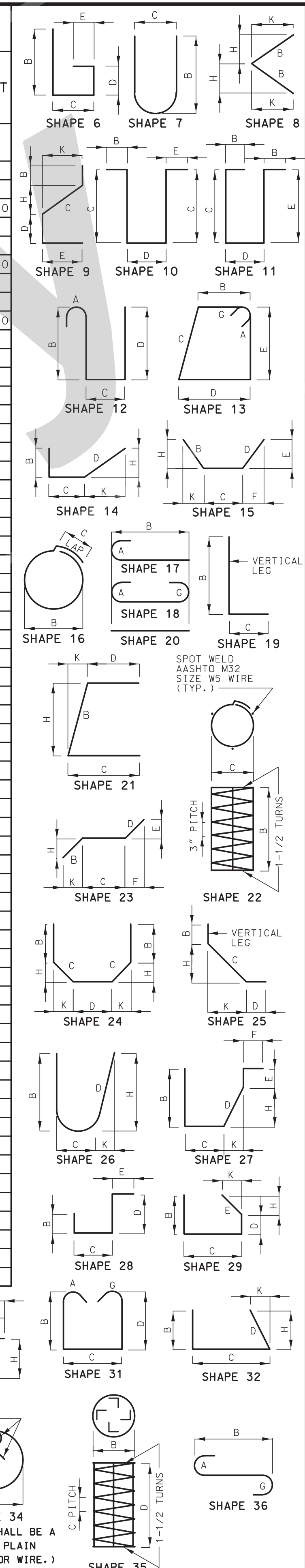
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Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
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BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
									B		C		D		E		F		H					K	
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.
108	5 H1	App. Notch	E 19						2	4.000	0	15.000						3	7.3	5	385				
12	5 H2	App. Notch	E 20						46	0.000								46	0.46	0	576				
BARRIER																									
34	5 K1	Barrier	E 19						2	5.000	5	1.25						2	10.2	9	98				
34	5 K2	Barrier	E 14							5.125	11.125	18.000						2	10.2	9	98				
12	5 K9	Barrier	E 20						6	3.000								6	3.6	3	78				
10	4 K10	Barrier	E 20						5	1.000								5	1.5	1	34				
1	5 K11	Barrier	E 8						2	2.000			2	2.000	2.375	4	4.4	4	4.4	4	5				
10	5 K13	Barrier	E 20						8	8.000								8	8.8	8	90				
BARRIER																									
23	5 R1	Barrier	E 26 S						2	6.000	4.250	2	6.125			2	6.000	3.000	5	3.5	2	124			
11	5 R3	Barrier	E 19 S							17.000	6.000							1	11.1	10	21				
11	5 R4	Barrier	E 27 S							6.000	11.250	7.000	12.000	9.250	6.375	3	0.2	10	3.3		33				
14	5 R5	Barrier	E 20						4	9.000								4	9.4	9	69				
7	5 R6	Barrier	E 20						9	9.000								9	9.9	9	71				

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
									B		C		D		E		F		H					K	
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.
5		TOTALS	E																			1680			
REINFORCING STEEL (EPOXY COATED)																									
5		BARRIER	E																			720			



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 9

COUNTY ST. LOUIS CITY
JOB NO. J6I3149
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10834

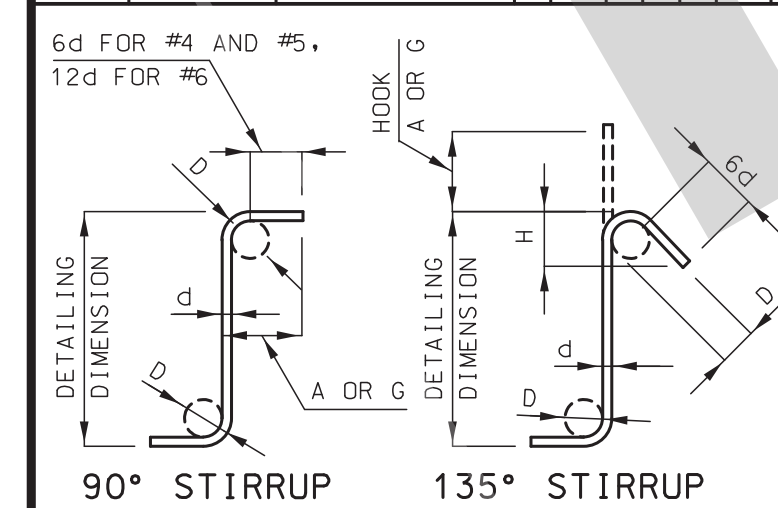
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

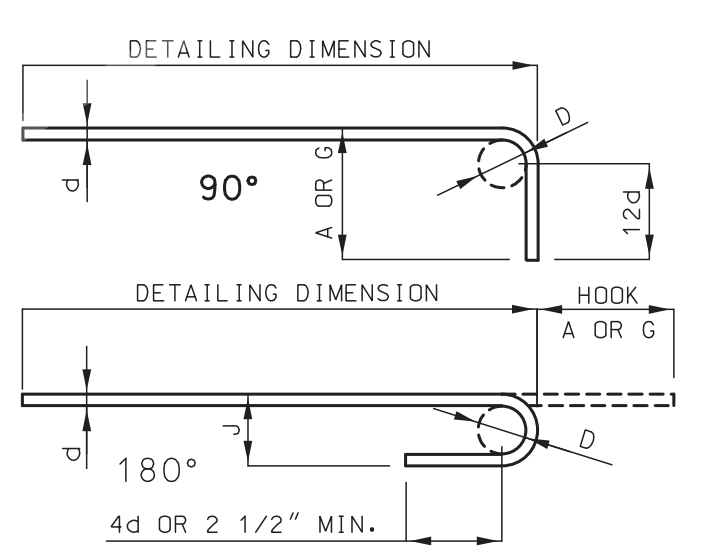
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578



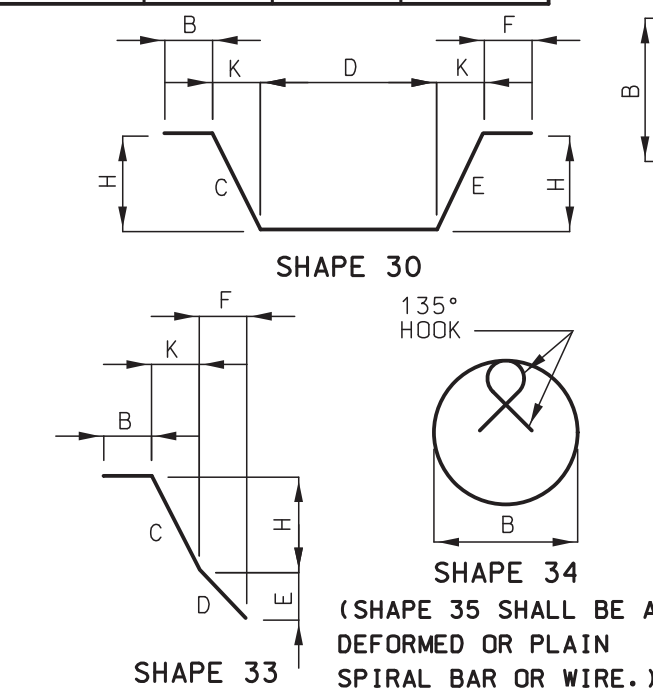
BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	J
#3	2 1/4"	5"	3"	6"	6"
#4	3"	6"	4"	8"	8"
#5	3 3/4"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	12"	12"
#7	5 1/4"	10"	7"	14"	14"
#8	6"	11"	8"	16"	16"
#9	9 1/2"	15"	11 3/4"	19"	19"
#10	10 3/4"	17"	13 1/4"	22"	22"
#11	12"	19"	14 3/4"	2'-0"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	2'-7"

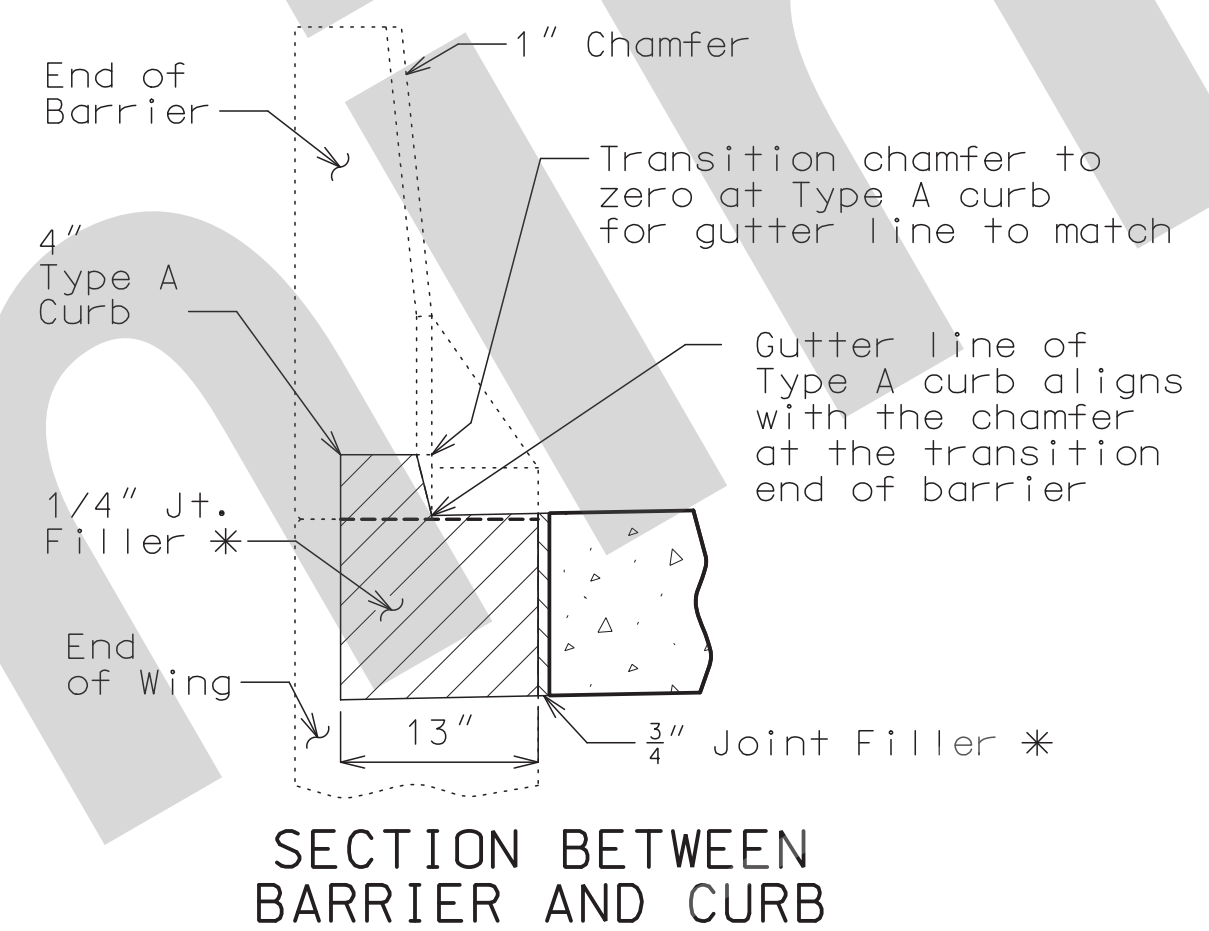
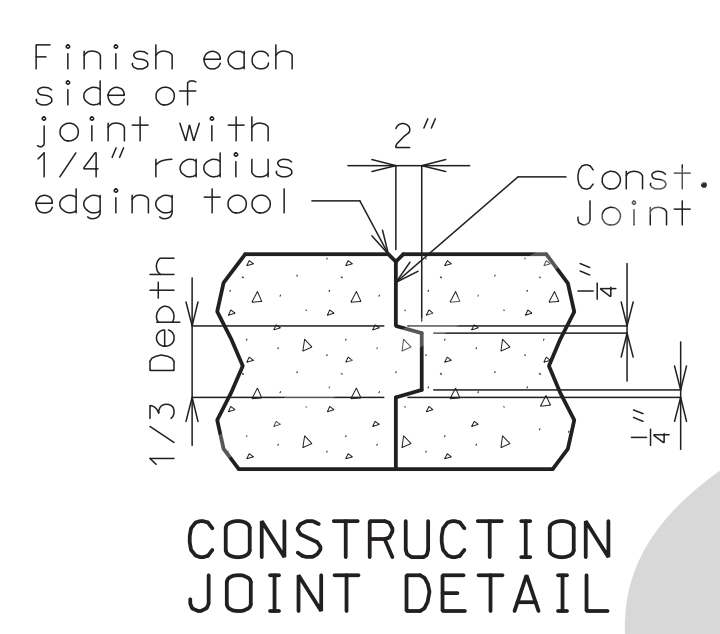
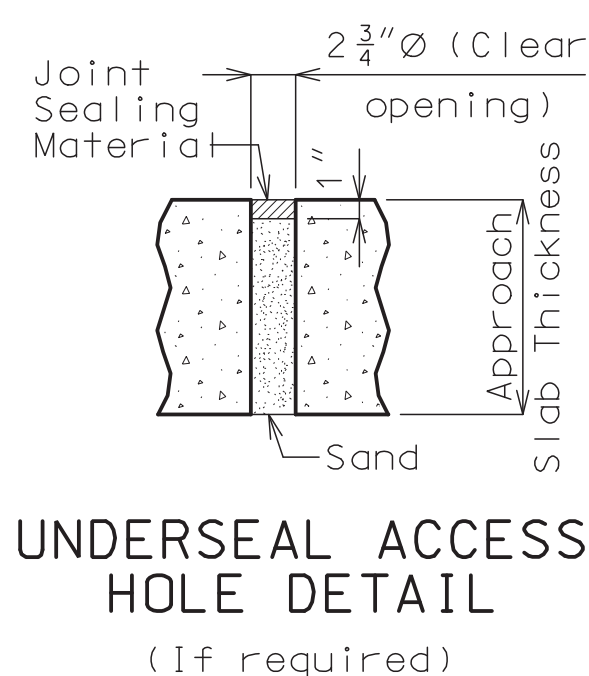
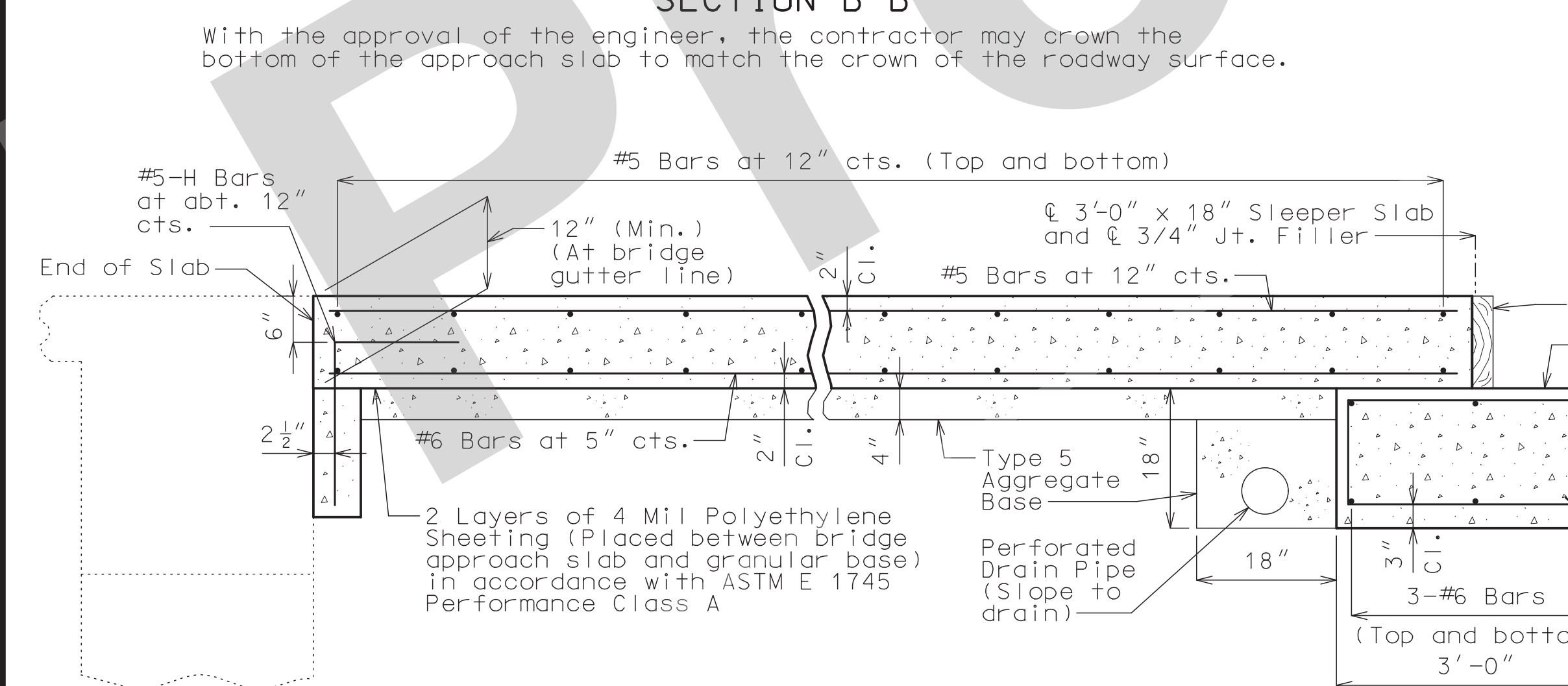
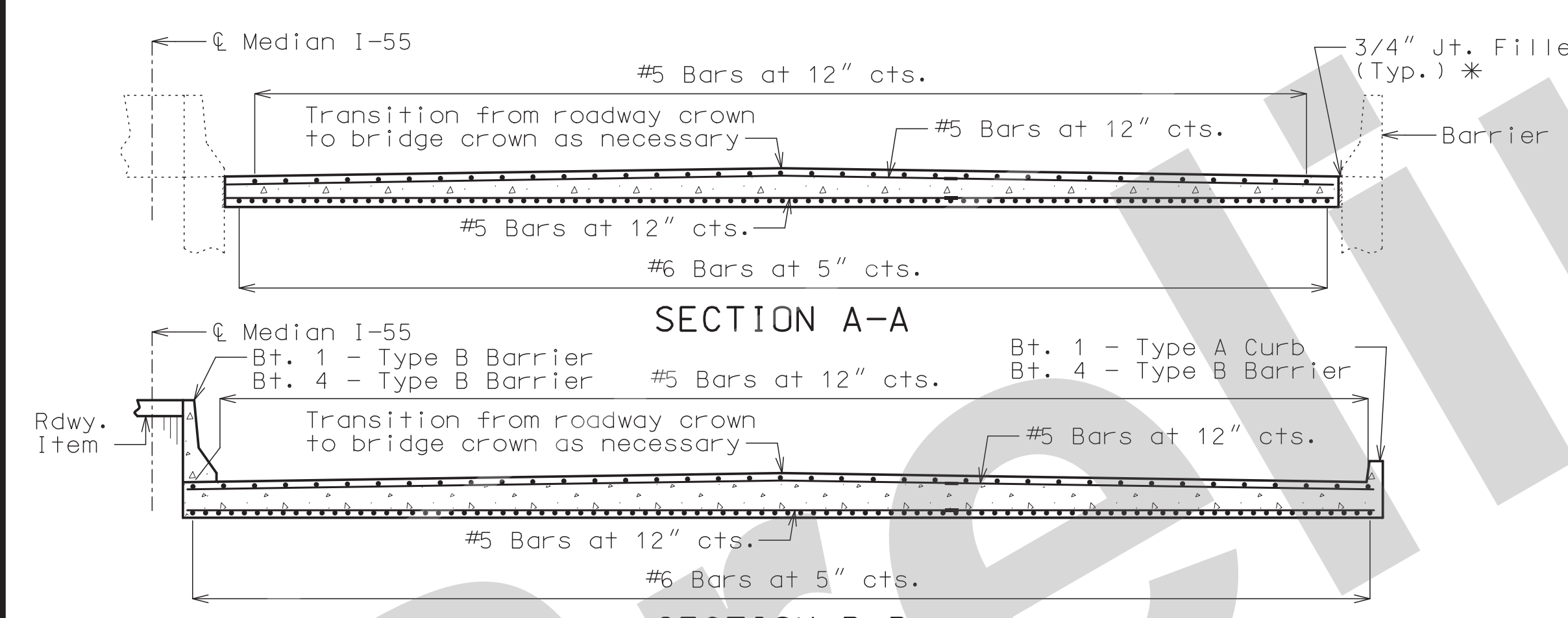
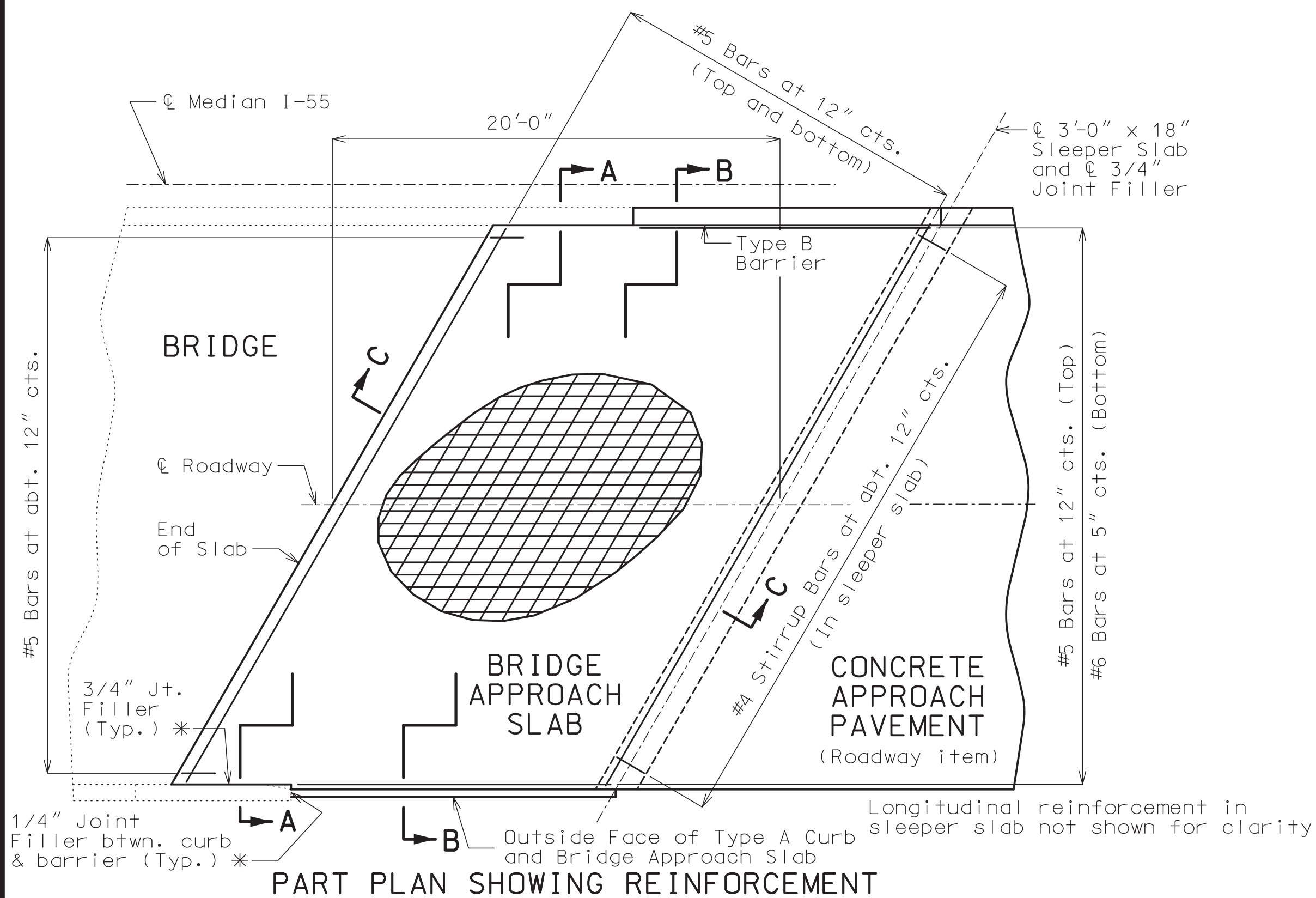
NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.



Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 9 of 9



General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

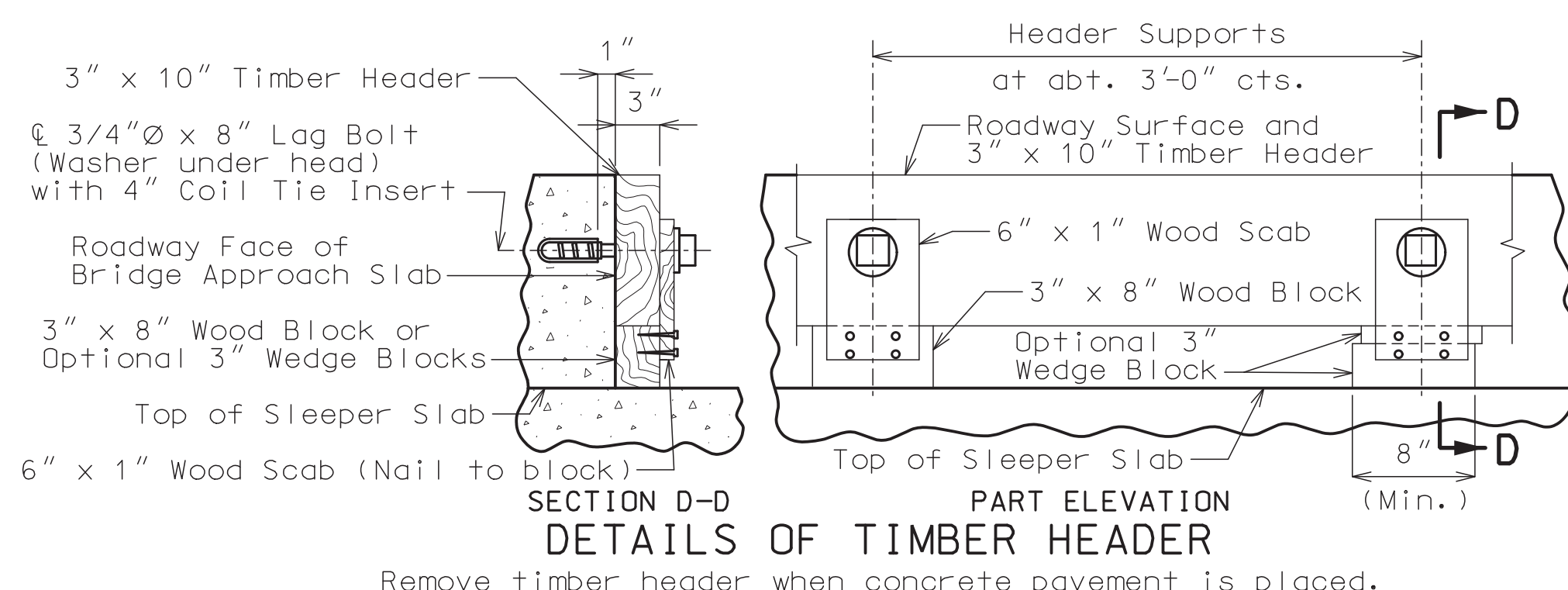
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



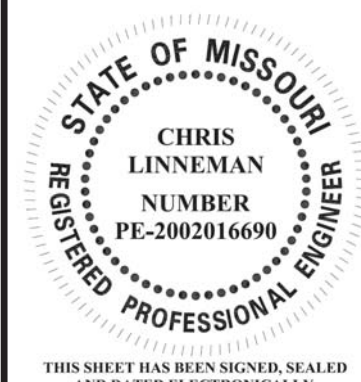
BRIDGE APPROACH SLAB (MAJOR)

Detailed JUN 2021
Checked JUN 2021

Note: New wearing surface not shown for clarity.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 7



DATE PREPARED: 8/5/2021

ROUTE: I-55 STATE: MO

DISTRICT: BR SHEET NO.: 6

COUNTY: ST. LOUIS CITY


JOB NO.: J6I3149

CONTRACT ID.:

PROJECT NO.:

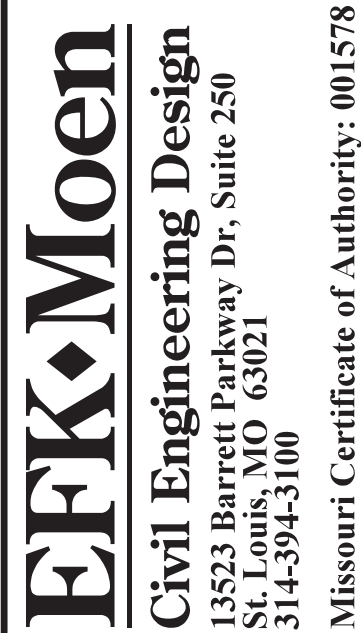
BRIDGE NO.: A10842

DATE	DESCRIPTION



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



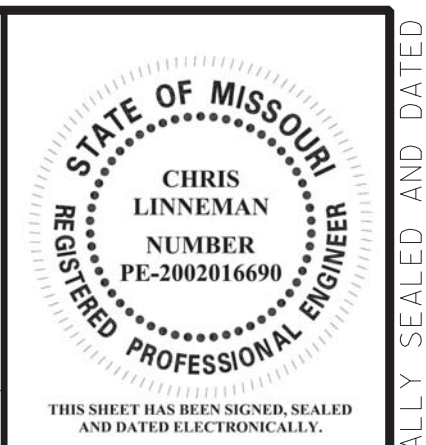
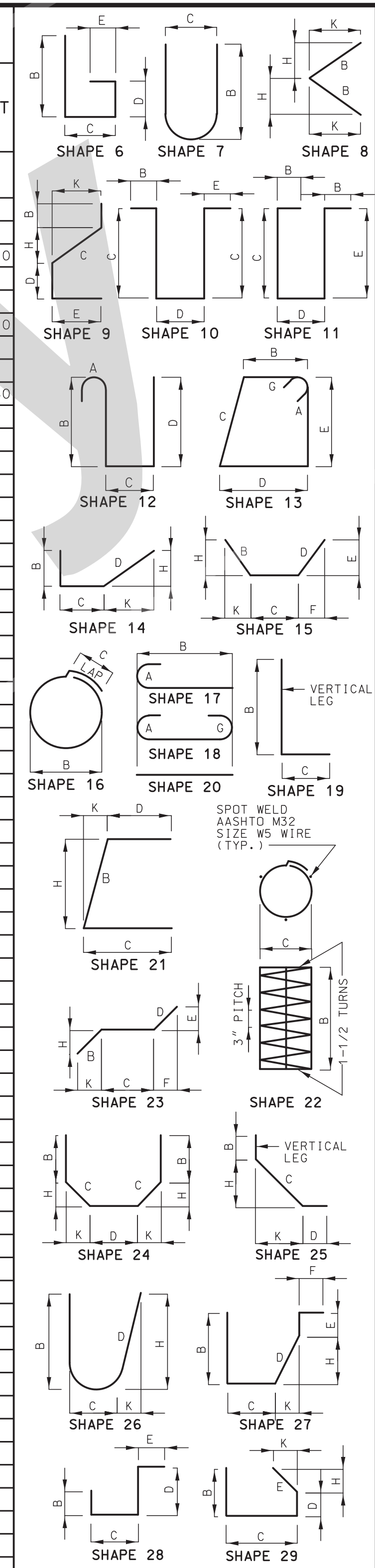
EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
									B		C		D		E		F		H					K	
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.
108	5 H1	Appr. Notch	E 19						2	4.000	0	15.000							3	7	3	5	385		
12	5 H2	Appr. Notch	E 20						37	0.000									37	0	37	0	463		
		BARRIER																							
39	5 R1	Barrier	E 26	S					2	6.000	4.250	2	6.125						2	6.000	3.000	5	3	2	210
39	5 R3	Barrier	E 19	S						17.000	6.000								1	11	1	10	75		
39	5 R4	Barrier	E 27	S						6.000	11.250	7.000	12.000	9.250	6.375	3	0	2	10					115	
21	5 R5	Barrier	E 20						12	0.000									12	0	12	0	263		

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT		
									B		C		D		E		F		H					K	
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.
5		TOTALS																						1510	
5		REINFORCING STEEL (EPOXY COATED)																						850	
5		BARRIER																						660	



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS CITY
JOB NO. J6I3149
CONTRACT ID.

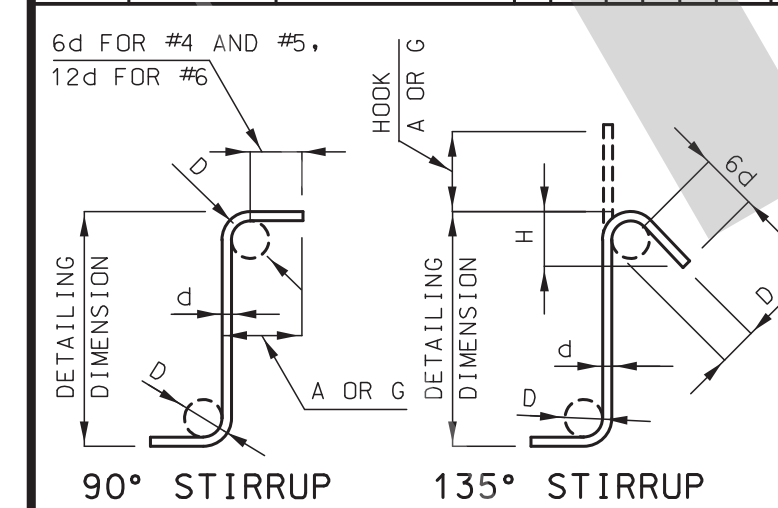
PROJECT NO.

BRIDGE NO. A10842

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

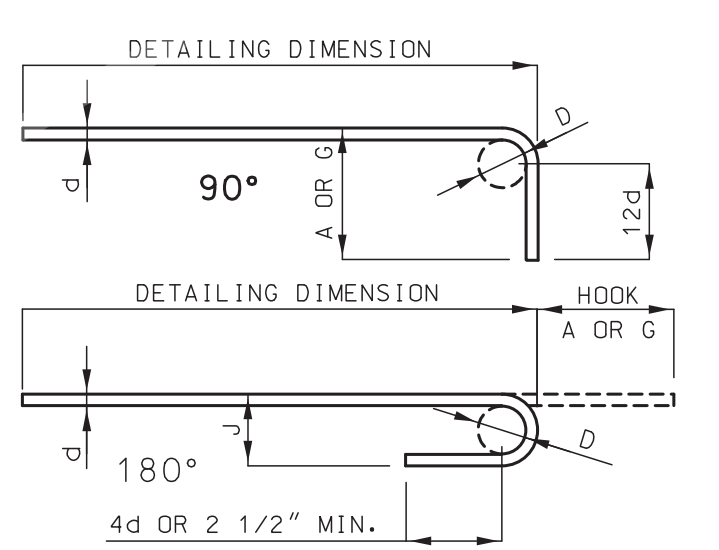
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
13523 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578



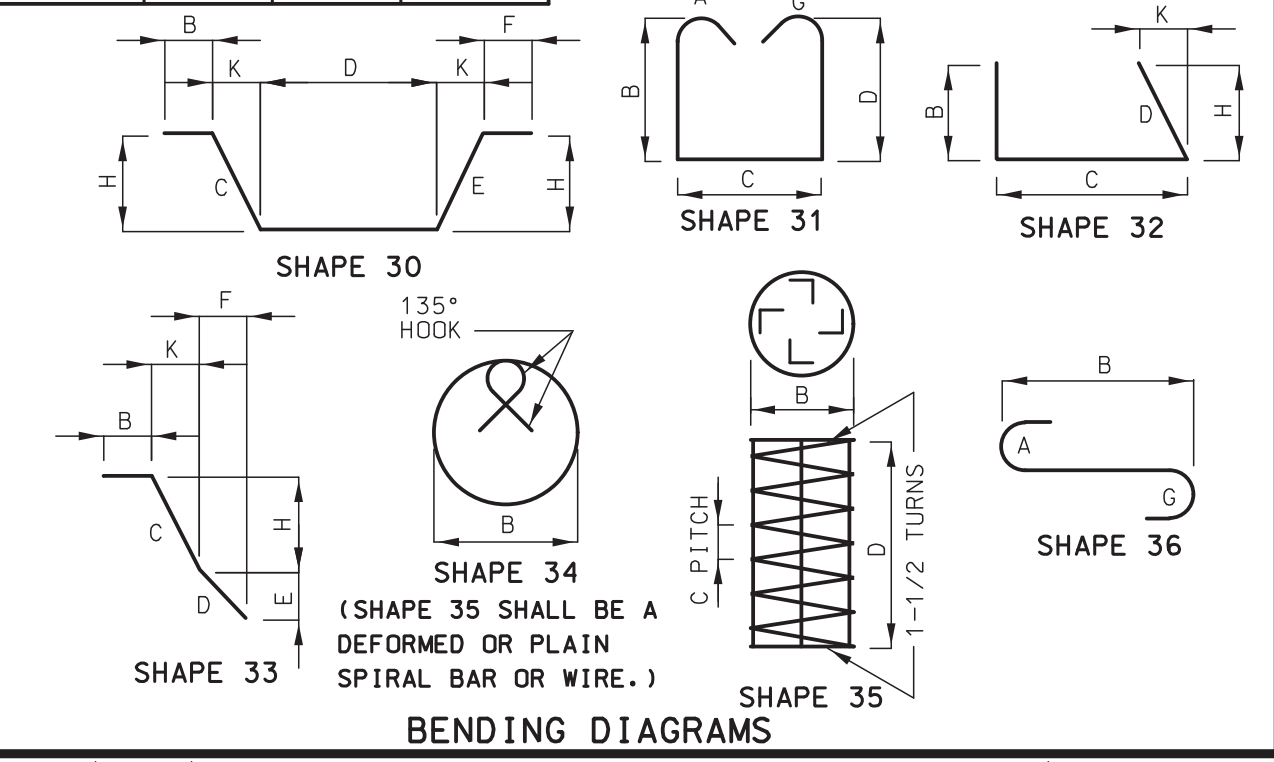
BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		A OR G	H	A OR G	H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	H
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) F_y = 60,000 PSI.



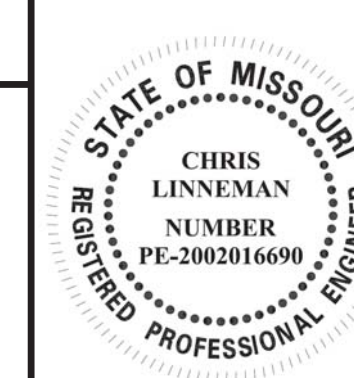
Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 7

U.I.P. AND REHABILITATE EXISTING (46'-60'-46') CONTINUOUS CONCRETE VOIDED SLAB SPANS
(SKEW VARIES)

SEC/SUR 34 TWP 45N RGE 7E



DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS CITY

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10843

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Missouri Certificate of Authority: 001578

EV.

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REGISTERED PROFESSIONAL ENGINEER

CHRIS LINNEMAN

NUMBER

PE-2002016690

STATE OF MISSOURI

REGISTERED

PROFESSIONAL ENGINEER

DATE PREPARED

ROUTE

DISTRICT

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

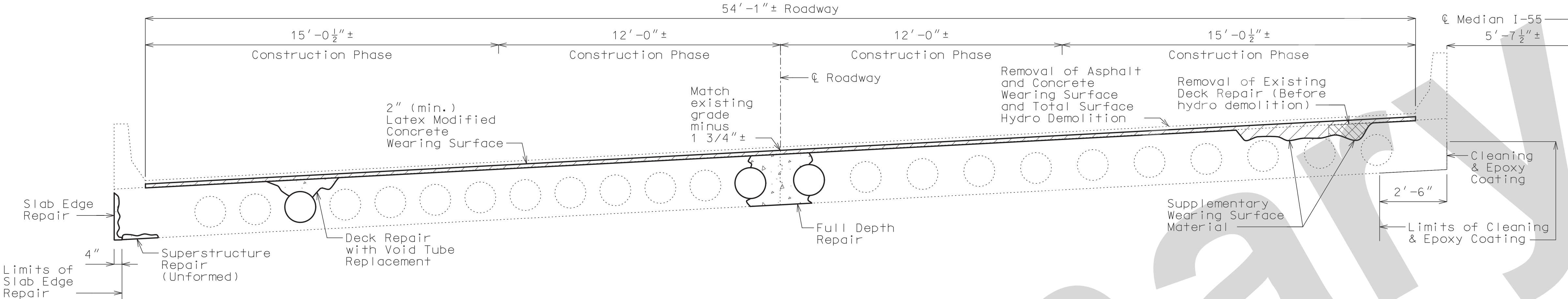
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REGISTERED PROFESSIONAL ENGINEER



TYPICAL SECTION THRU EXISTING DECK

Note:

Construction phases may be completed in any order, but only one at a time. All repair shall be completed and allowed to cure before starting on the next phase.

General Notes:

Design Specifications:

2002 AASTHO LFD (17th Ed.) Standard Specifications
Bridge Deck Rating = 6

Design Loading:

H20-44 (1961) and HS20-44 Modified (1983) and Military 24,000 lb Tandem Axle (1983)

Design Unit Stresses:

Class B-1 Concrete (Barrier, Half-Sole and Full Depth Repair) f'c = 4,000 psi
Class B-2 Concrete (Approach Notch) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:

Roadway surfacing adjacent to bridge ends shall match new bridge wearing surface (Roadway item).

All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:

Structure to be closed during construction. Traffic to be maintained on structures during construction. See roadway plans for traffic control.

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	937
*** Removal of Asphalt Wearing Surface	sq. foot	8,437
Removal of Existing Deck Repair	sq. foot	483
Removal of Existing Approach Notch	linear foot	108
Bridge Approach Slab (Major)	sq. yard	246
* Supplementary Wearing Surface Material	cu. yard	31
Latex Modified Concrete Wearing Surface	sq. yard	937
** Diamond Grinding	sq. yard	937
Penetrating Concrete Sealer	sq. yard	117
Class B-2 Concrete	cu. yard	3.0
Type B Barrier	linear foot	49
Substructure Repair (Unformed)	sq. foot	30
Superstructure Repair (Unformed)	sq. foot	100
Full Depth Repair	sq. foot	50
Slab Edge Repair (Bridges)	linear foot	35
Deck Repair with Void Tube Replacement	sq. foot	650
Cleaning and Epoxy Coating	sq. foot	468
Curb Repair (Formed)	linear foot	5
Reinforcing Steel (Epoxy Coated)	pound	850
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1

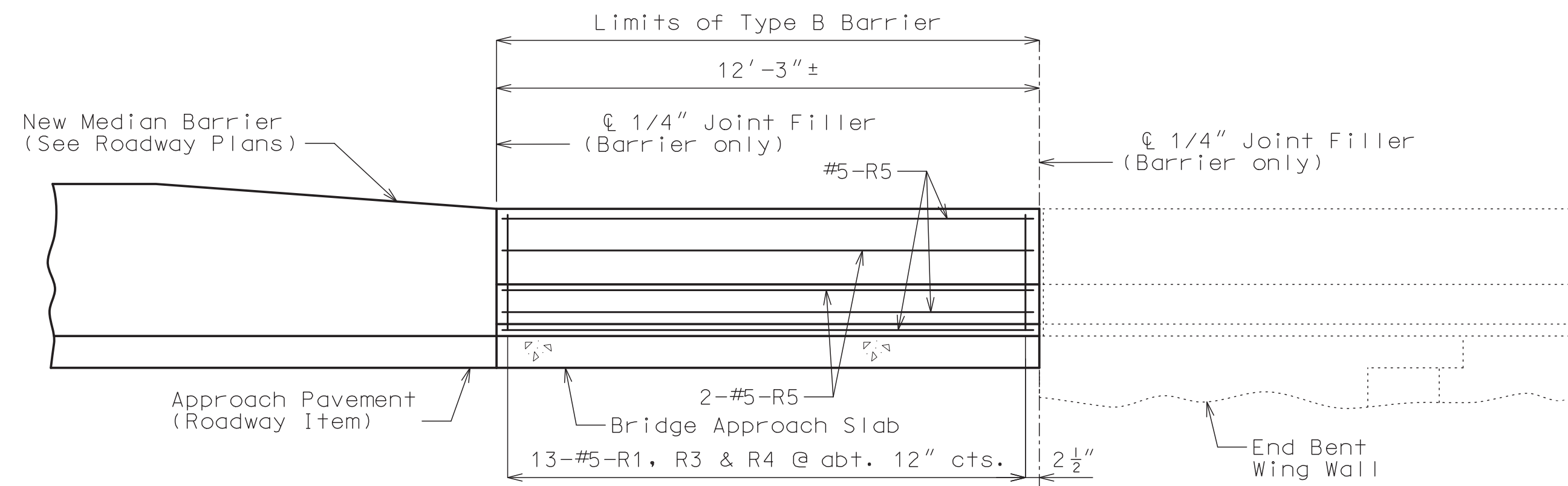
* Supplementary wearing surface material will be paid for at the fixed unit price in accordance with Sec 109.

** See Special Provisions

*** Covers the removal of existing asphalt and concrete surfaces.

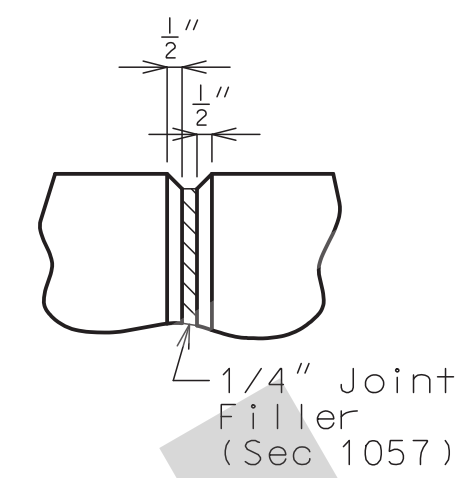
REPAIRS TO BRIDGE: I-55 S.B.
OVER POTOMAC ST.

I-55 FROM I-255 TO I-44
ABOUT 9.5 MILES N OF I-255
BEGINNING STATION 680+16.41± (Match Existing)

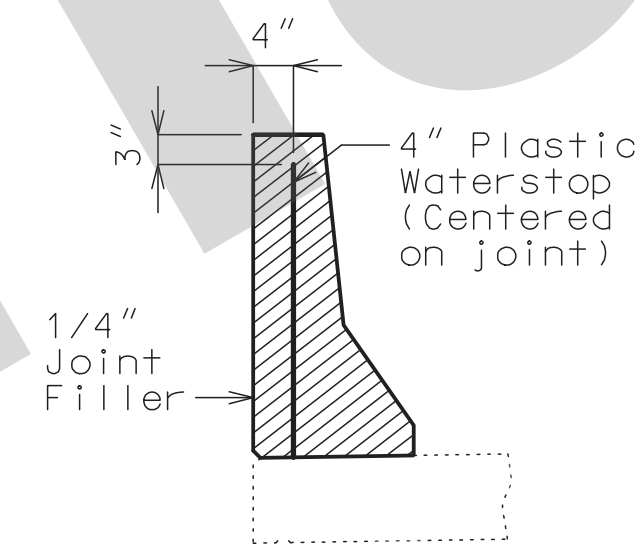


PART ELEVATION OF BARRIER

Left Barrier at End Bents No. 1 and 4.
Right Barrier at End Bents No. 1 and 4.



PART ELEVATION AT FORMED JOINT



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

General Notes:

Top of barrier shall be built parallel to grade with barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

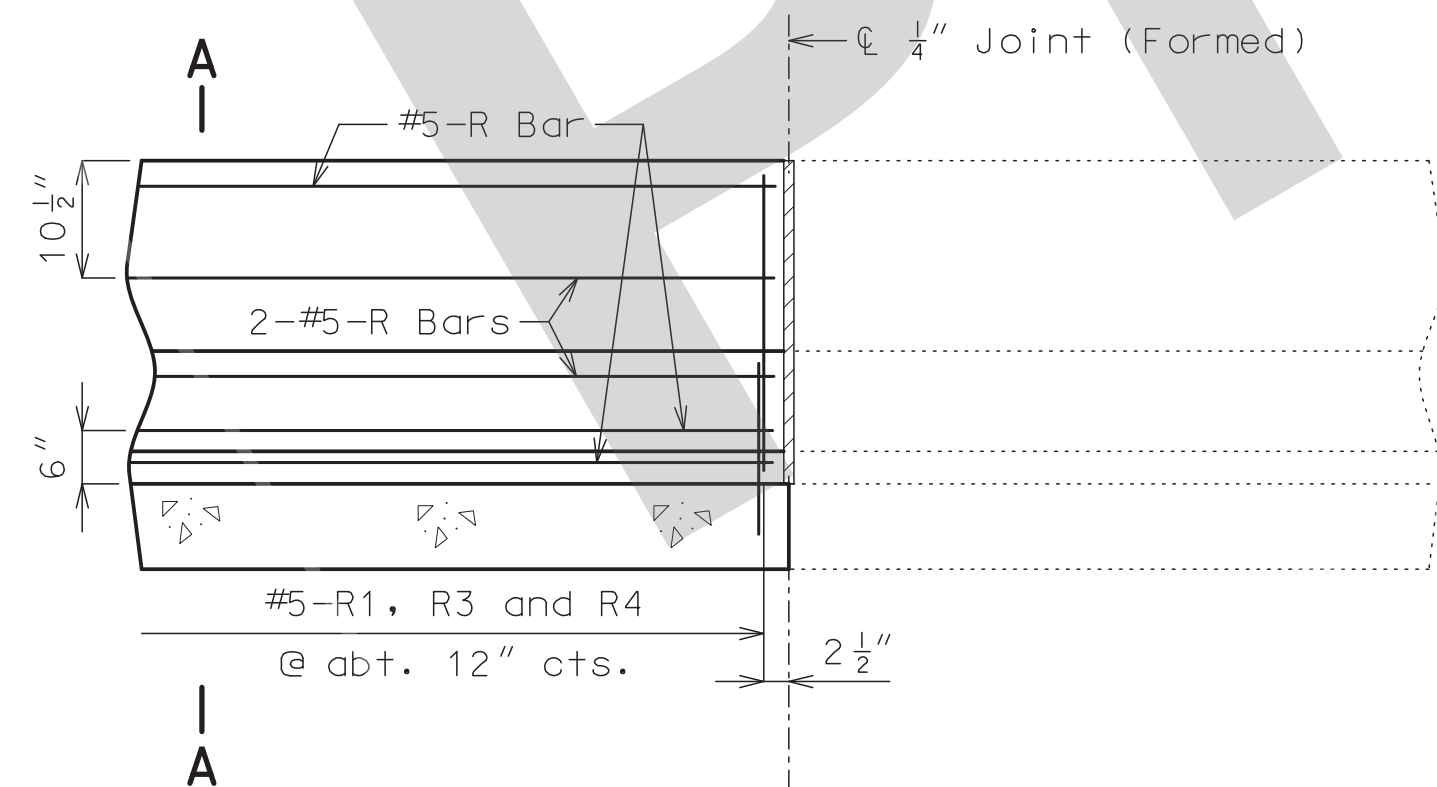
Concrete in the barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.

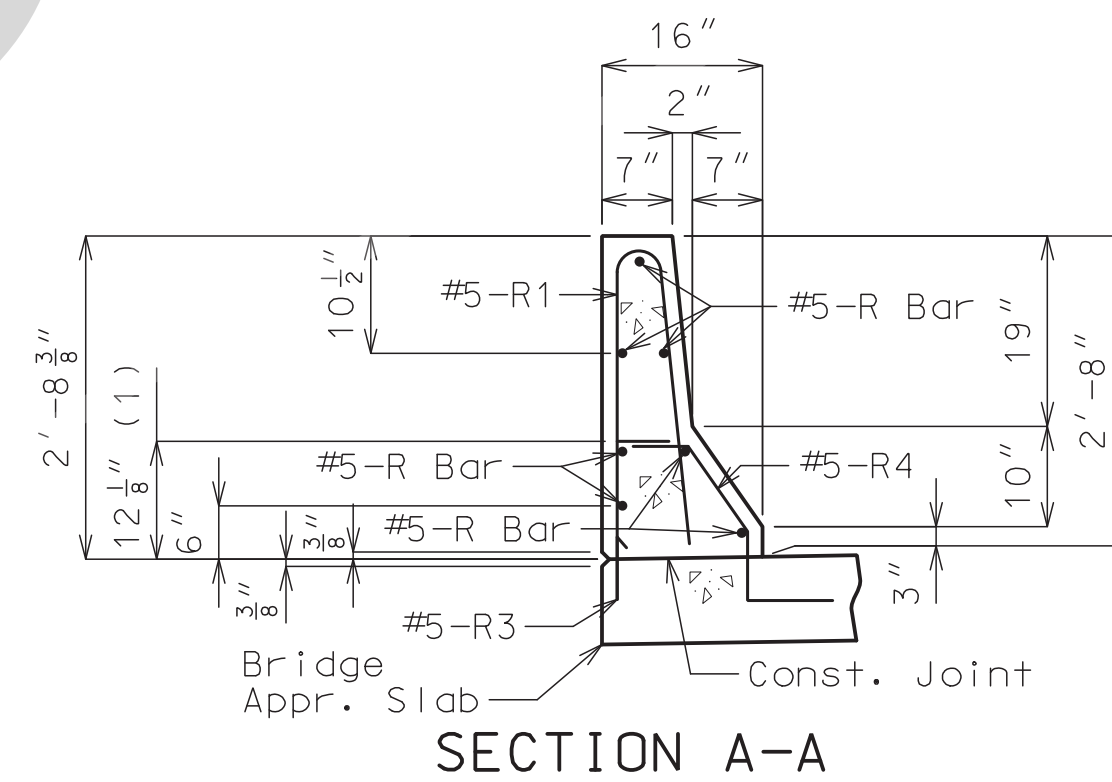
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER

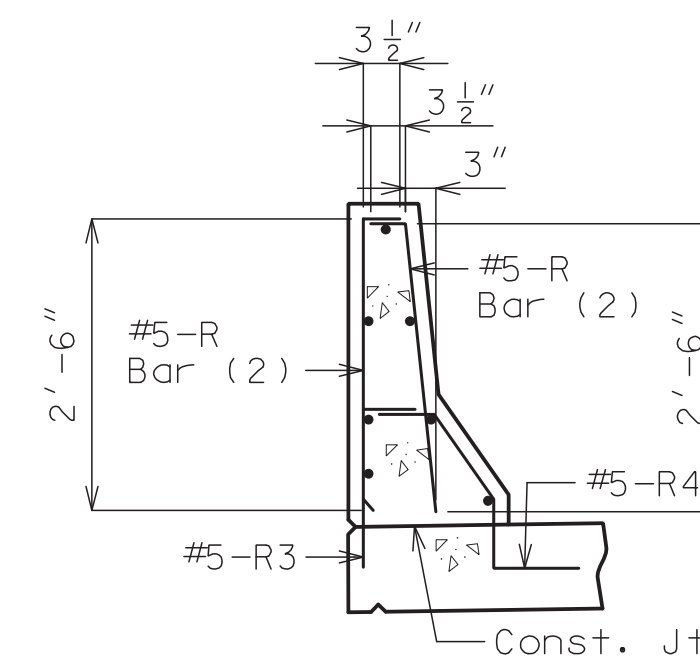


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.27 square feet.

(1) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(2) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

TYPE B BARRIER ON APPROACH SLAB

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 7

Detailed JUN 2021
Checked JUN 2021



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10843	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
1323 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

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DATE PREPARED
8/5/2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS CITY

JOB NO. J6I3149

CONTRACT ID.

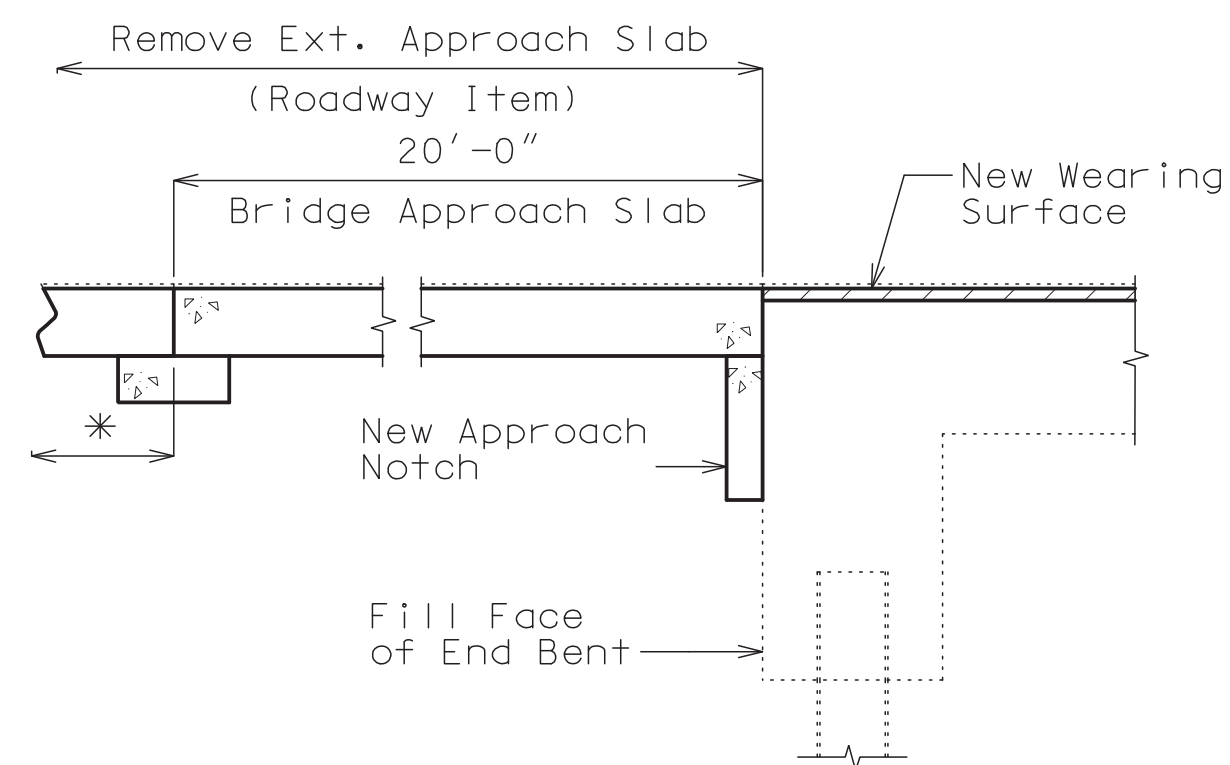
PROJECT NO.

BRIDGE NO. A10843

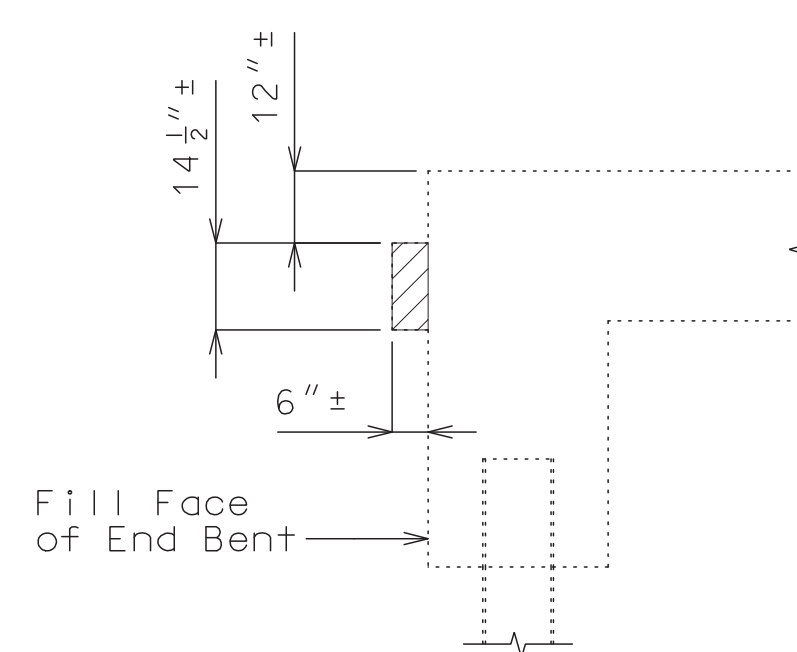
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

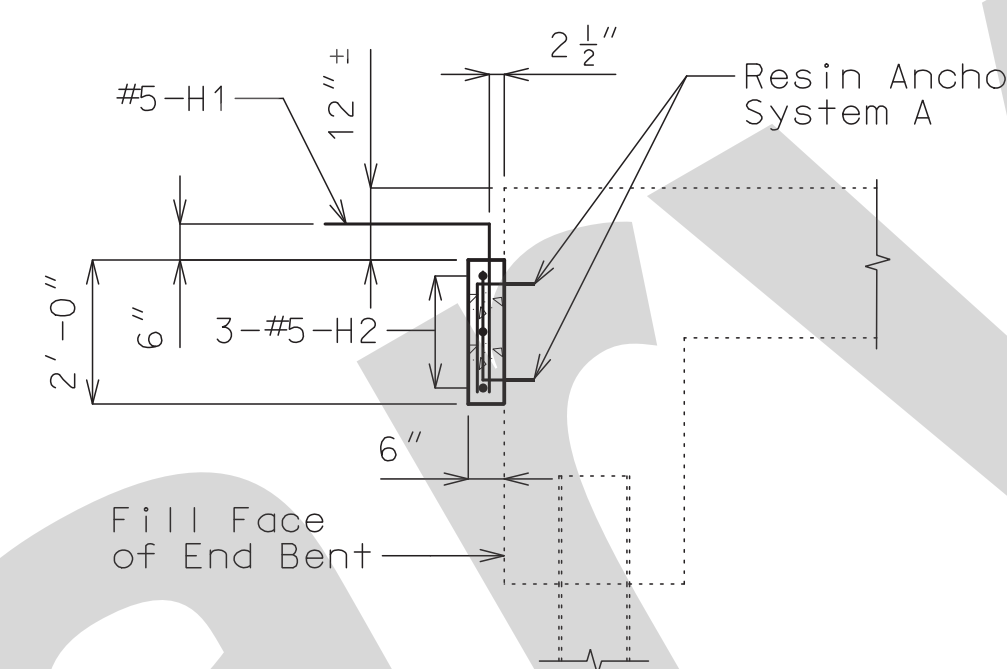
EKK Moen
 Civil Engineering Design
 13523 Barrett Parkway Dr., Suite 250
 St. Louis, MO 63021
 Missouri Certificate of Authority: 001578



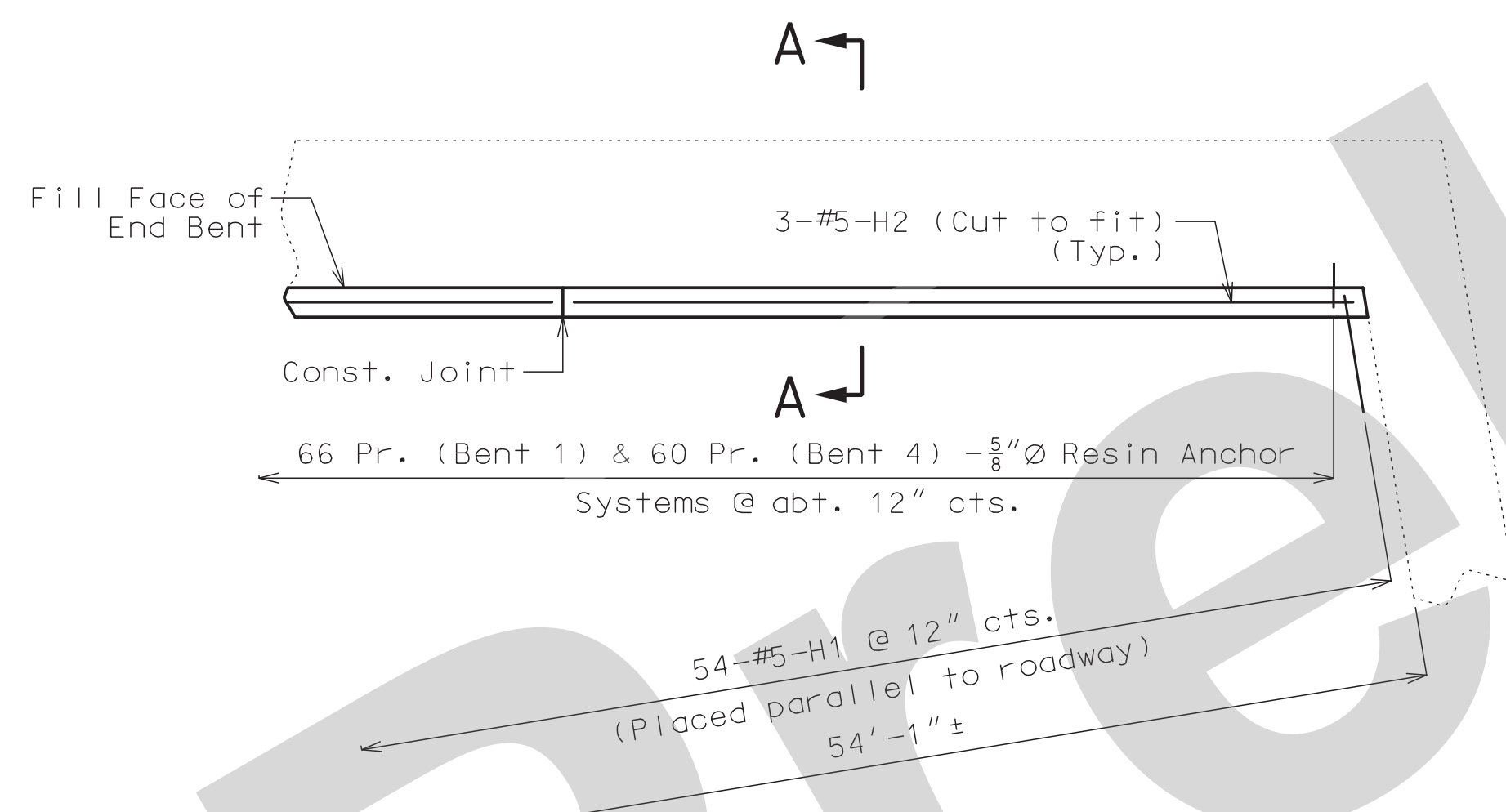
TYPICAL SECTION THRU END BENTS
 (End Bent No. 1 shown, End Bent No. 4 similar)
 * See Roadway Plans for pavement beyond limits of new Bridge Approach Slab.



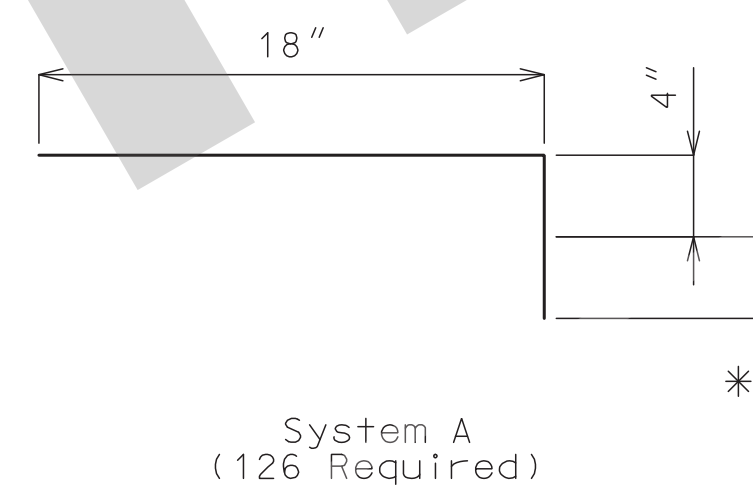
SECTION THRU END BENTS SHOWING EXISTING NOTCH REMOVAL
 (End Bent No. 1 shown, End Bent No. 4 similar)



SECTION A-A



PARTIAL PLAN OF END BENTS SHOWING NEW APPROACH NOTCH
 (End Bent No. 1 shown, End Bent No. 4 similar)



DETAILS OF RESIN ANCHOR SYSTEM

* Manufacturer's recommended embedment length (5" min.)

Notes:

Approach notch concrete shall be Class B-2 Concrete.

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with a $f'_c = 4,000$ psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the 5/8" Ø threaded rod.

Cost of furnishing and installing the resin anchor systems complete in place will be considered completely covered by the contract unit price for Class B-2 Concrete.

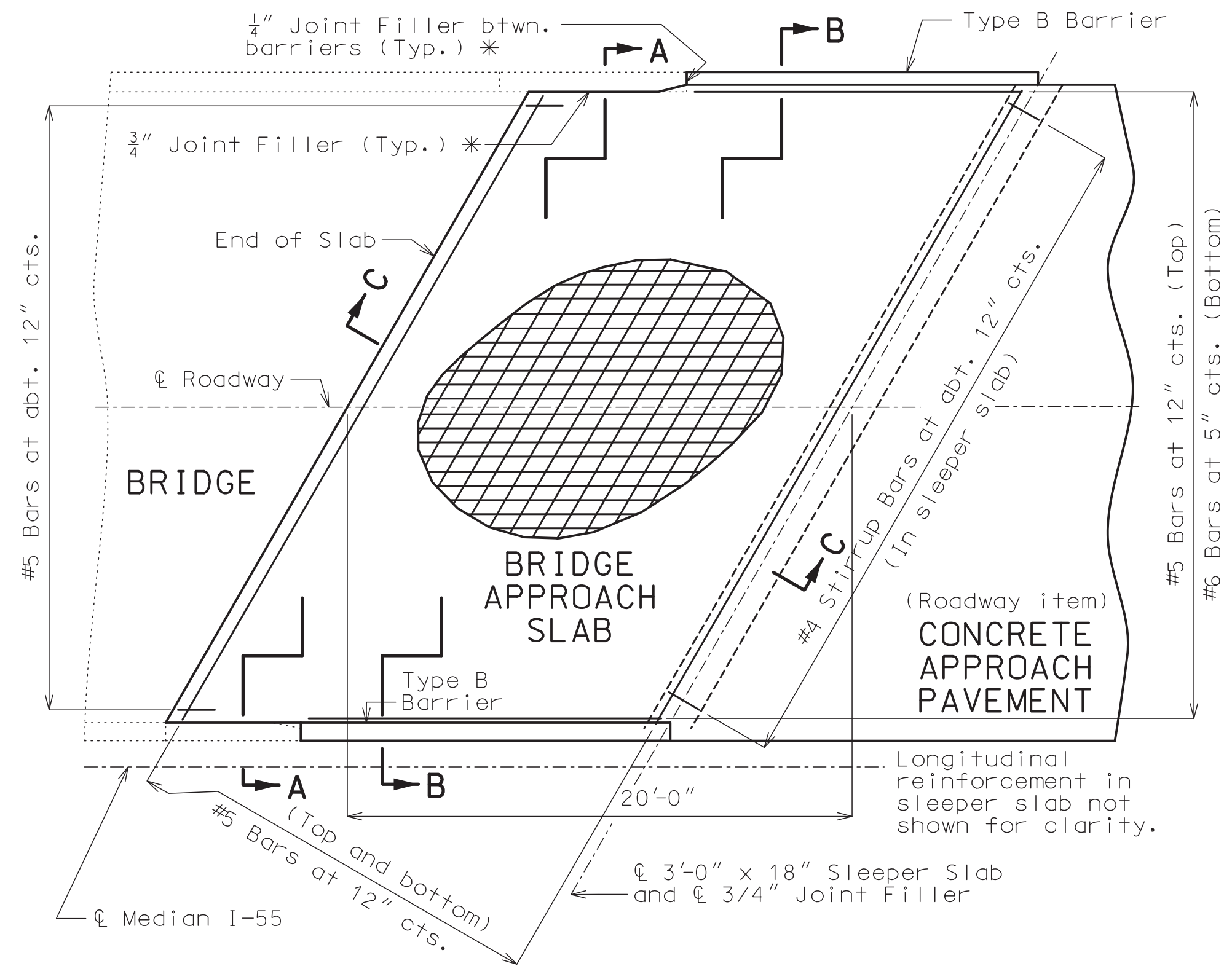
BRIDGE APPROACH NOTCH DETAILS

Detailed JUN 2021
 Checked JUN 2021

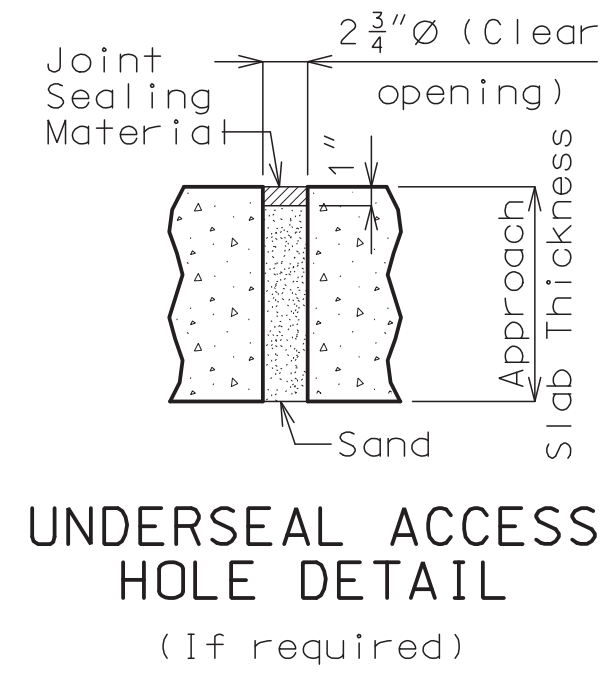
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 7

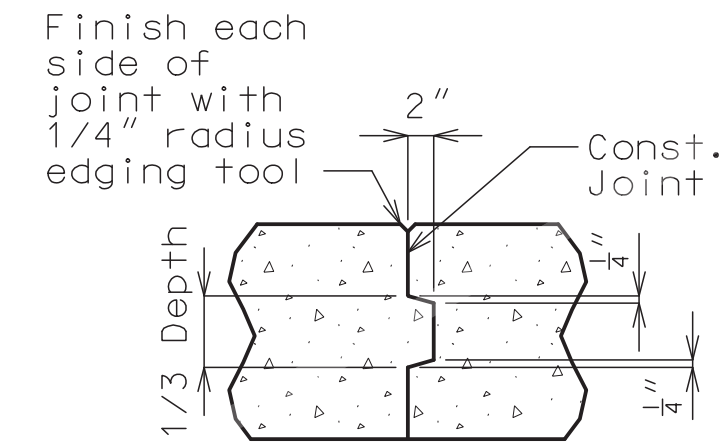
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PART PLAN SHOWING REINFORCEMENT



UNDERSEAL ACCESS HOLE DETAIL
(If required)



CONSTRUCTION JOINT DETAIL

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).
The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

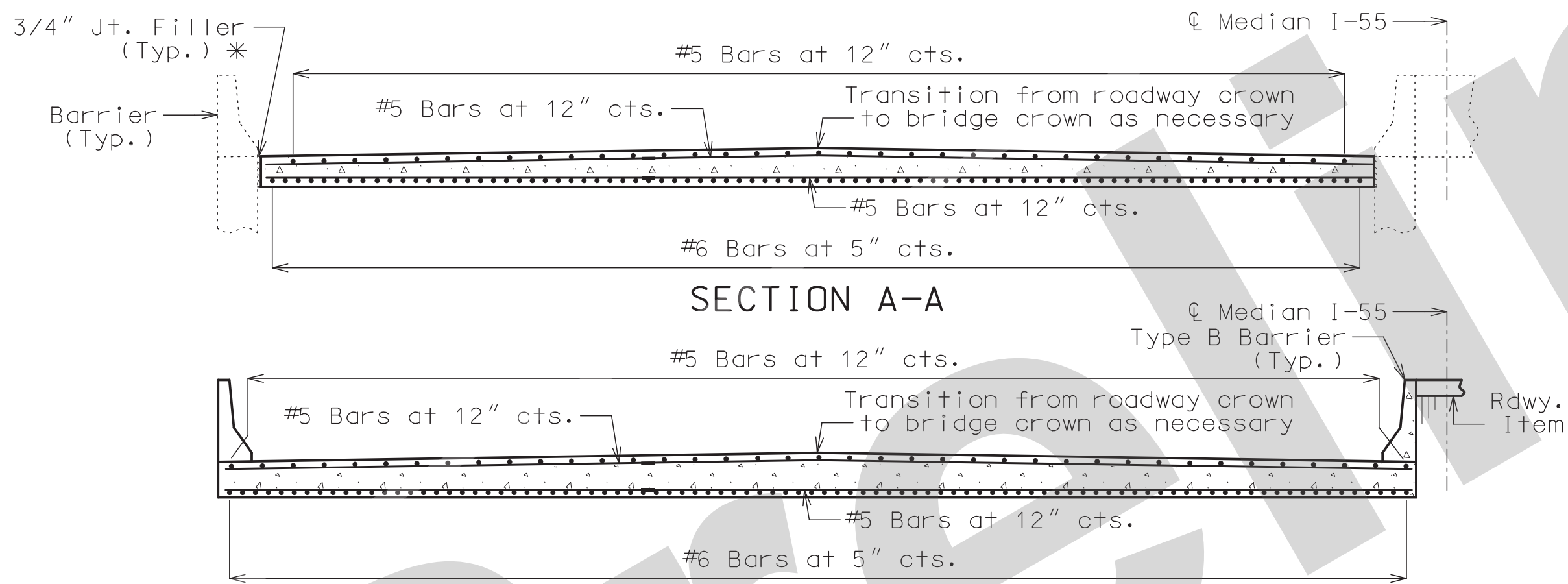
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

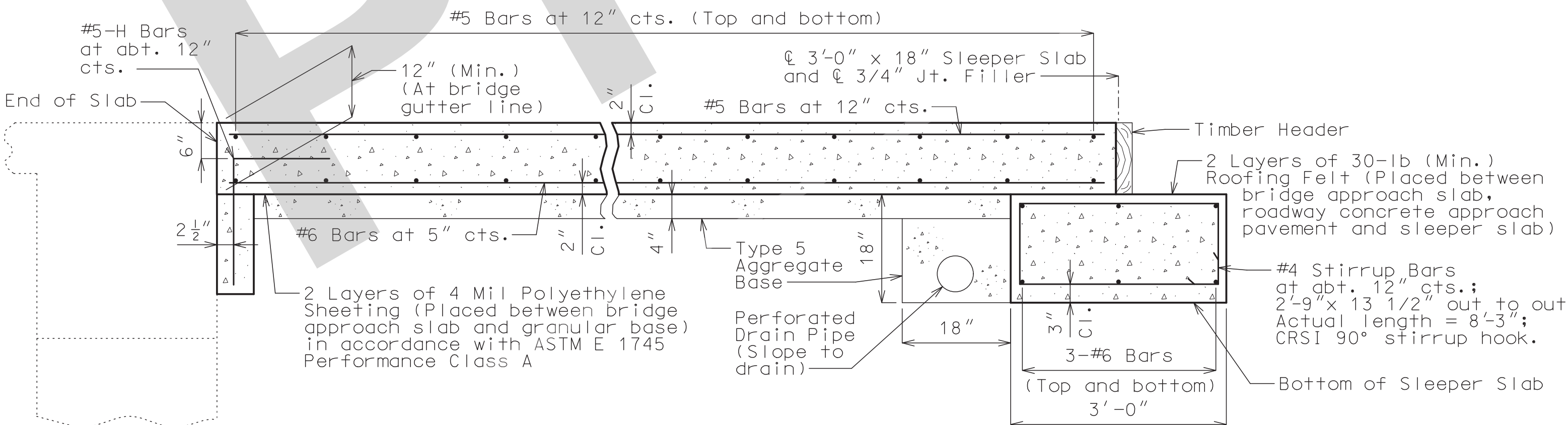
For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.



SECTION A-A

SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

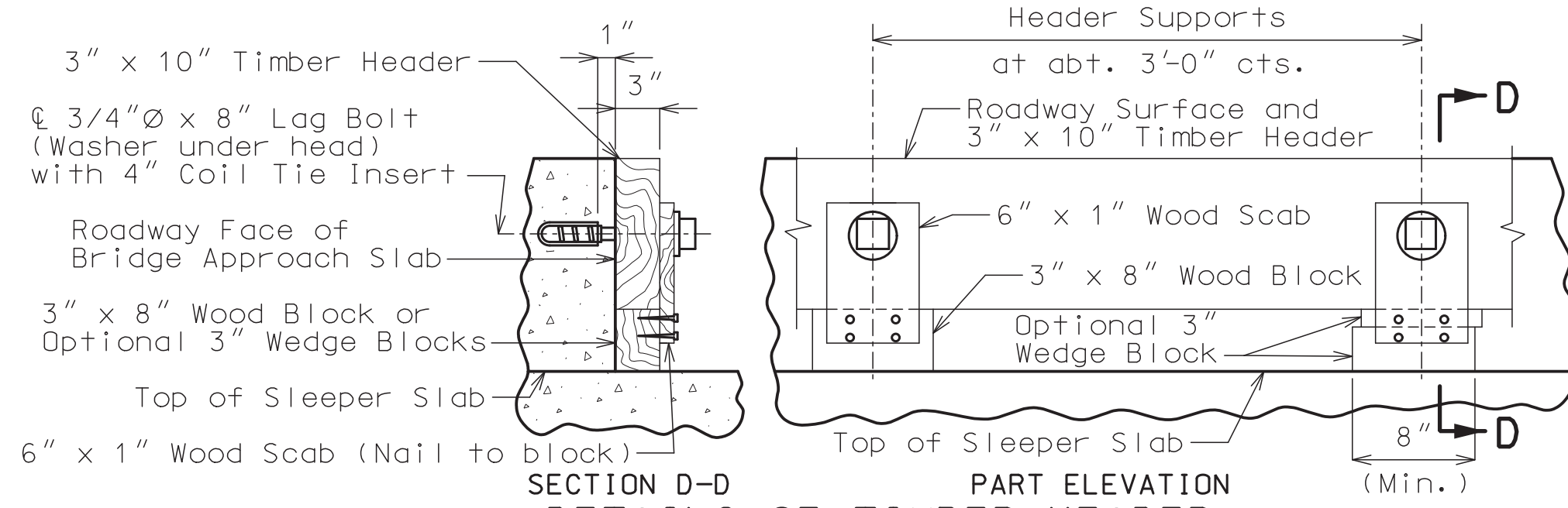


SECTION C-C

Note: New wearing surface not shown for clarity.

BRIDGE APPROACH SLAB (MAJOR)

Note: This drawing is not to scale. Follow dimensions.

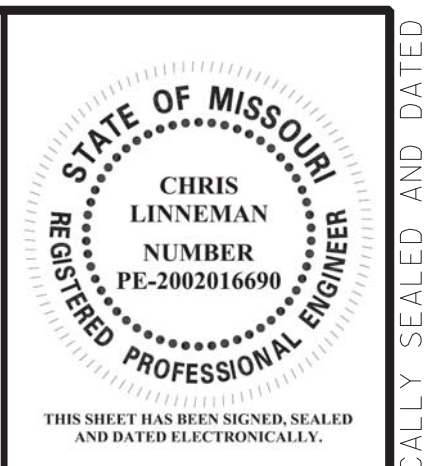


SECTION D-D
PART ELEVATION
DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.

Detailed JUN 2021
Checked JUN 2021

Sheet No. 6 of 7



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10843	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

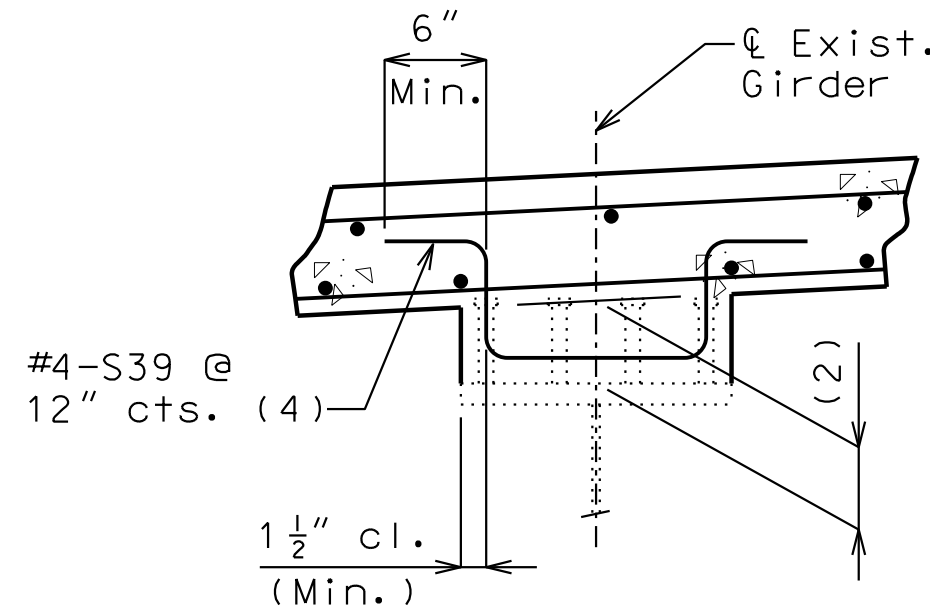
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Civil Engineering Design
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St. Louis, MO 63021
314-594-5100
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Required Lap Length For Bar Splices (1)

Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.



(4) 4700 #4-S39 Bars required total.

(2) #4-S39 Bars required when haunch exceeds 2" for 4" Long Shear Connectors and 3" for 5" Long Shear Connectors.

SECTION THRU HAUNCH

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications
Design Loading:
HS20-44 Modified (1961)
HS20-44 Modified (1983 and 2021)
15 lb/sf Future Wearing Surface

Design Unit Stresses:
Class B-1 Concrete (Barrier) $f'c = 4,000$ psi
Class B-2 Concrete (Superstructure, except Barrier) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $fy = 60,000$ psi
Structural Carbon Steel (ASTM A709 Grade 36) $fy = 36,000$ psi

Fabricated Steel Connections:
Field connections shall be made with 3/4" diameter high strength ASTM F3125 Grade A325 Type 1 bolts and 13/16" diameter holes, except as noted.

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	1019
Reinforcing Steel (Epoxy Coated)	pound	359,410

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

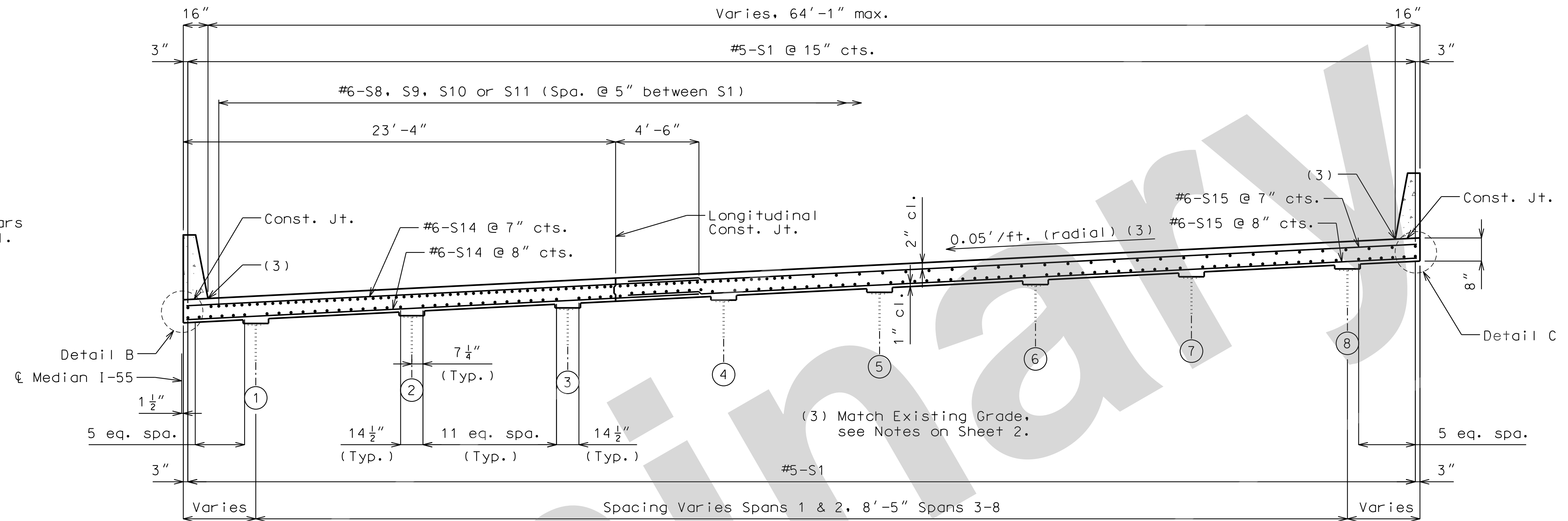
Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

All reinforcement in the concrete diaphragm at the end bents is included in the Estimated Quantities for Slab on Steel.

Concrete above the upper construction joint in backwall at End Bents 1 and 9 is included with Ultra-High Performance Concrete (UHPC) Quantities.

U.I.P., REDECK AND REHABILITATE EXISTING (75'-81'-72'-74') (5'-72'-76'-76'-61') COMPOSITE WIDE FLANGE BEAM SPANS (SKEW VARIES)



NORTHBOUND NEAR INT BENT

NORTHBOUND NEAR MID SPAN

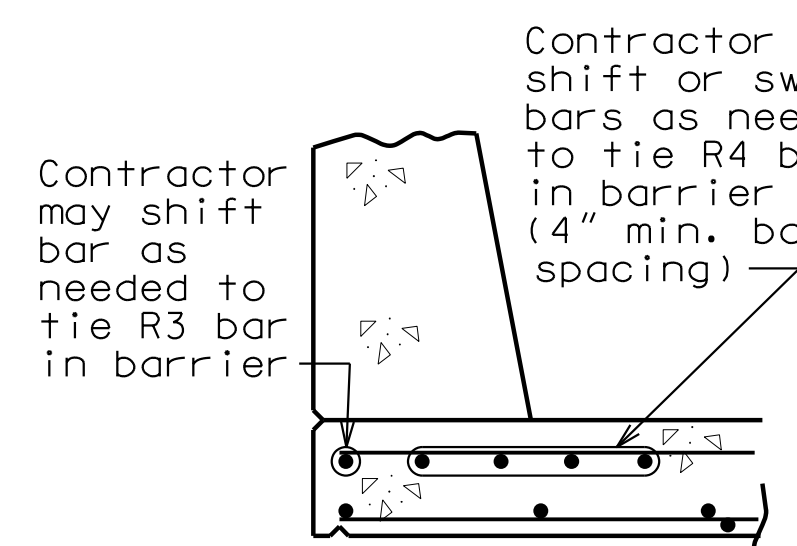
Estimated Quantities

Item	Substr.	Superstr.	Total
Removal of Existing Bridge Decks	sq. foot	39,170	39,170
Removal of Existing Bearings	each	24	24
Bridge Approach Slab (Major)	sq. yard	285	285
Slab on Steel	sq. yard	4,285	4,285
Type D Barrier	linear foot	1,260	1,260
Ultra-High Performance Concrete (UHPC)	cu. yard	23.0	23.0
Substructure Repair (Formed)	sq. foot	65	65
Substructure Repair (Unformed)	sq. foot	54	54
Conduit System on Structure	lump sum	1	1
Protective Coating Concrete Bents and Piers (Epoxy)	lump sum	1	1
Fabricated Structural Carbon Steel (Misc.)	pound	1,990	1,990
Drainage System (On Structure)	lump sum	1	1
Surface Preparation for Recoating Structural Steel	sq. foot	500	500
Field Application of Inorganic Zinc Primer	sq. foot	500	500
Intermediate Field Coat (System G)	sq. foot	700	700
Non-Destructive Testing	linear foot	1,032	1,032
Reset Bearings	each	10	10
Laminated Neoprene Bearing Pad Assembly	each	24	24
Strip Seal Expansion Joint System	linear foot	210	210

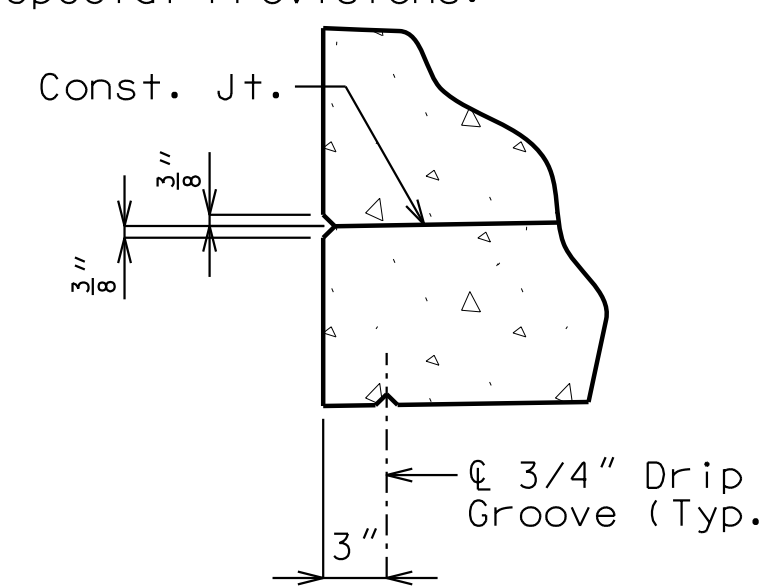
Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Payment for removal of girder bumpers and trimming girder ends will be considered completely covered by the contract price for Removal of Existing Bearings.

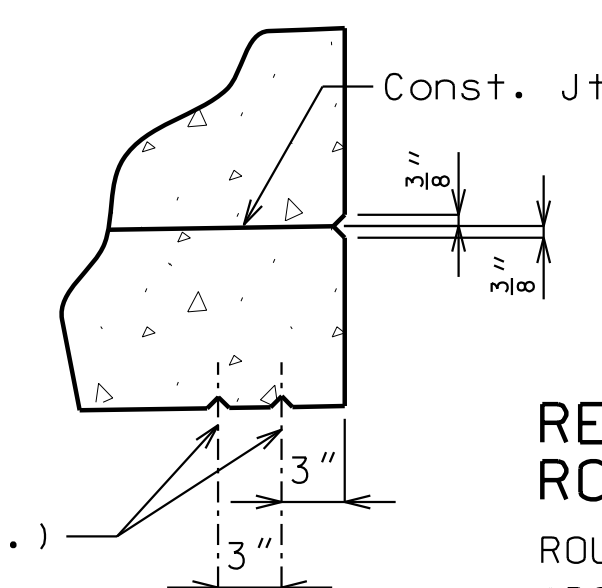
Non-Destructive Testing shall be performed on the welds of all existing top flange cover plates, see Special Provisions.



OPTIONAL SHIFTING TOP BARS AT BARRIER



DETAIL B
Sheet No. 1 of 24



DETAIL C

REPAIRS TO BRIDGE:
ROUTE I-55 NB OVER 2nd ST
ROUTE I-55 FROM I-255 TO I-44
ABOUT 9.6 MILES NORTH OF I-255
STATION 685+12.69± (MATCH EXISTING)



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DATE PREPARED
06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

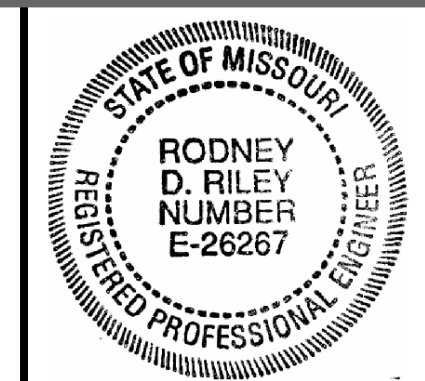
MODOT

JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

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ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

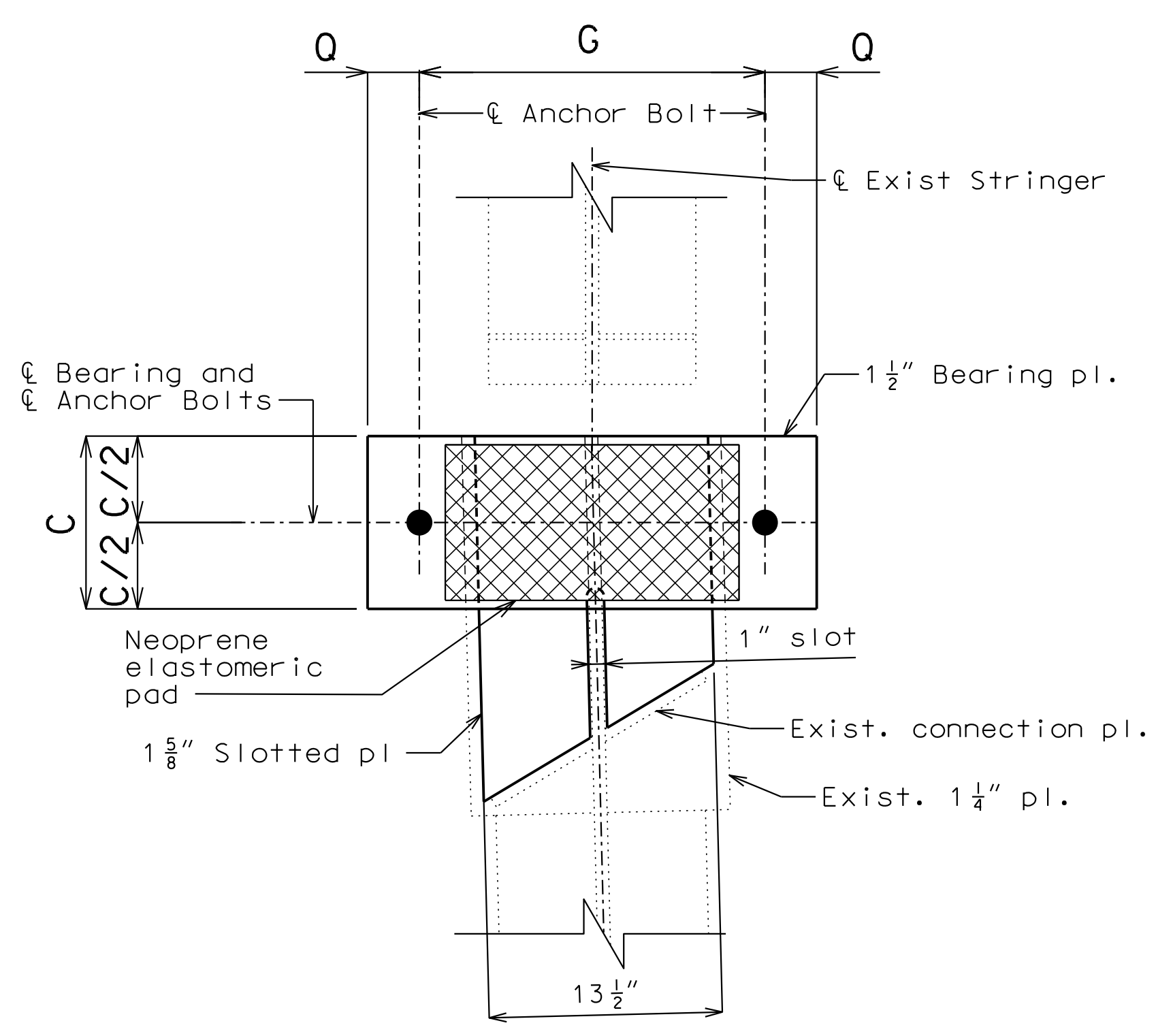
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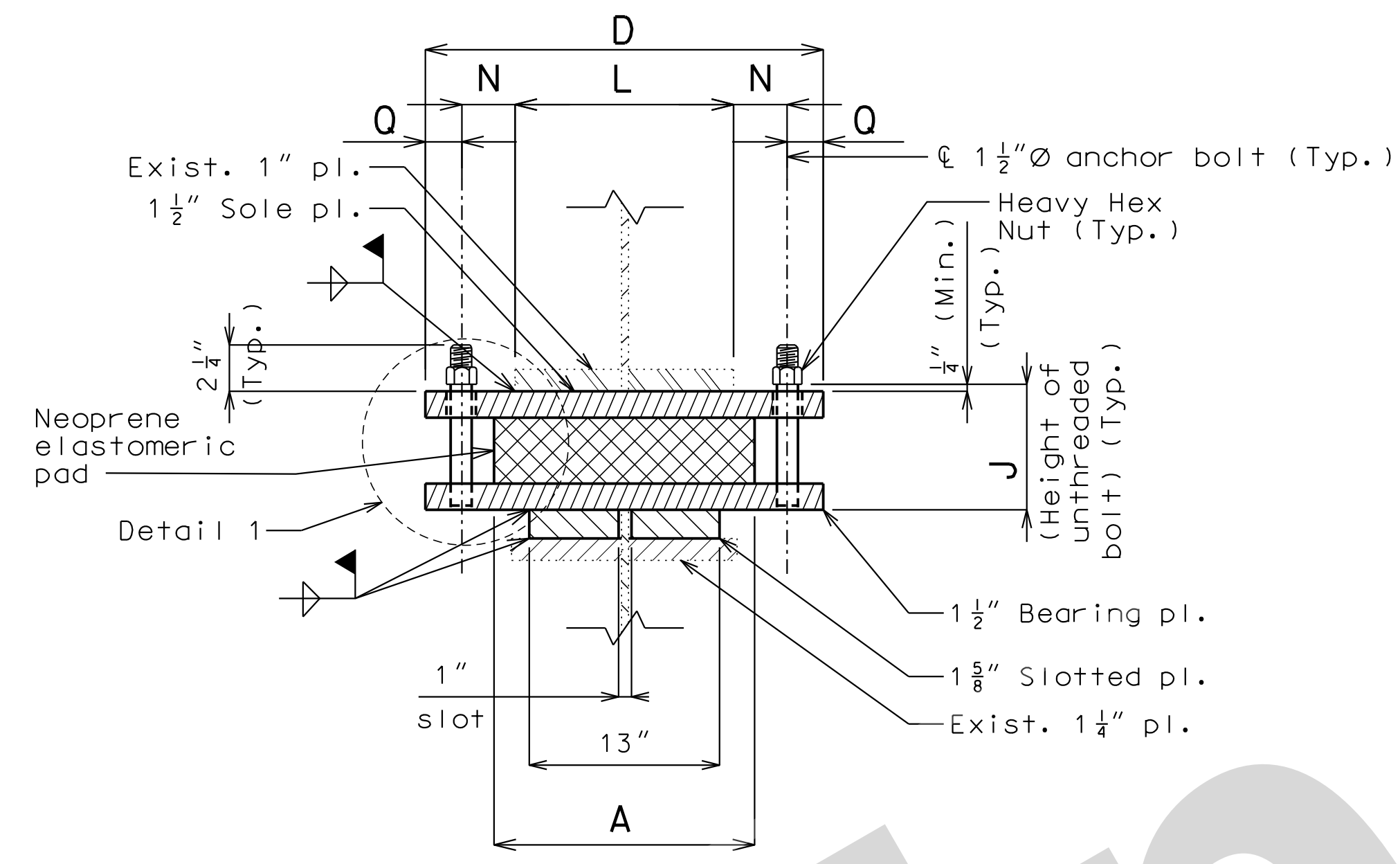
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CERTIFICATE OF AUTHORITY #00704

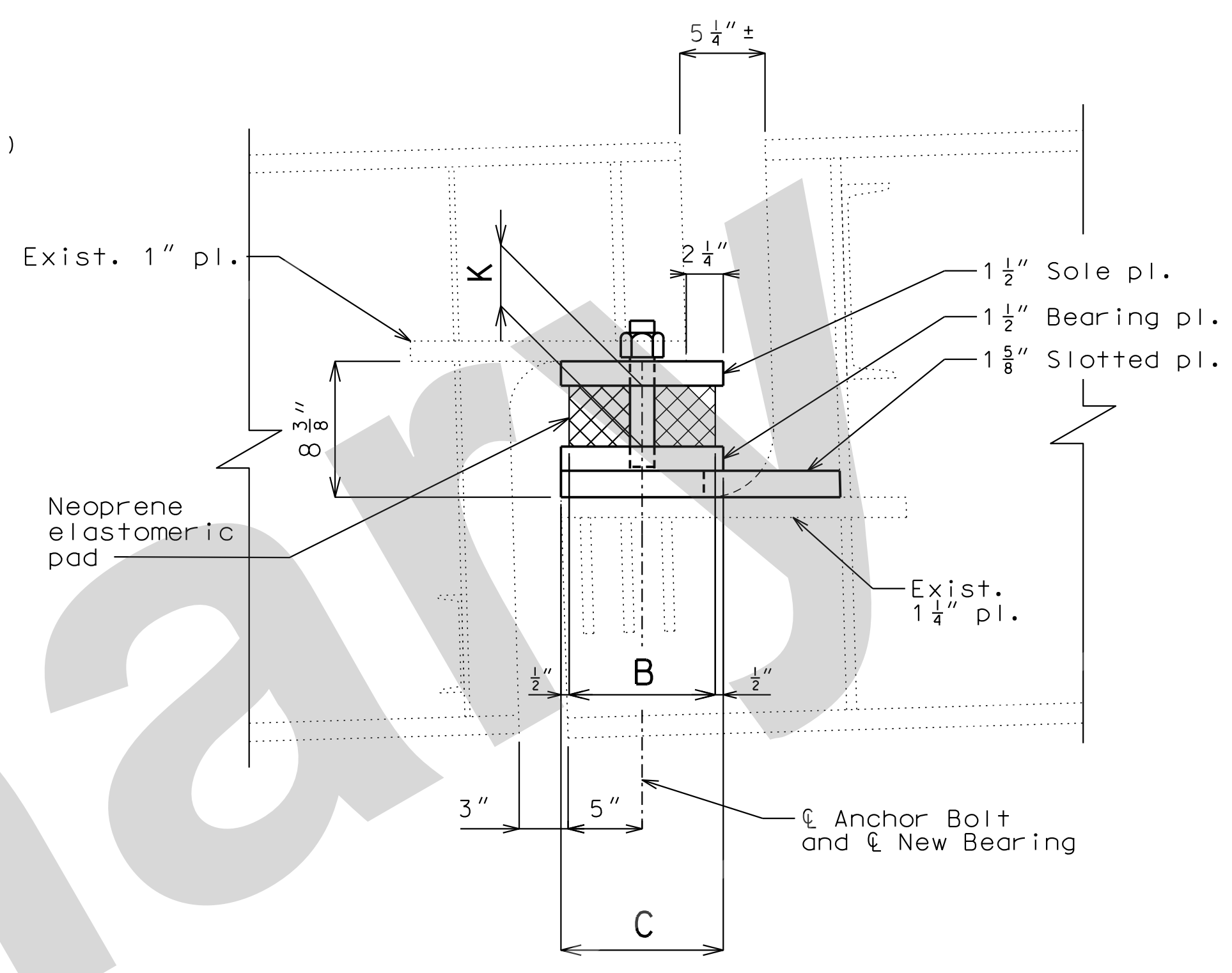
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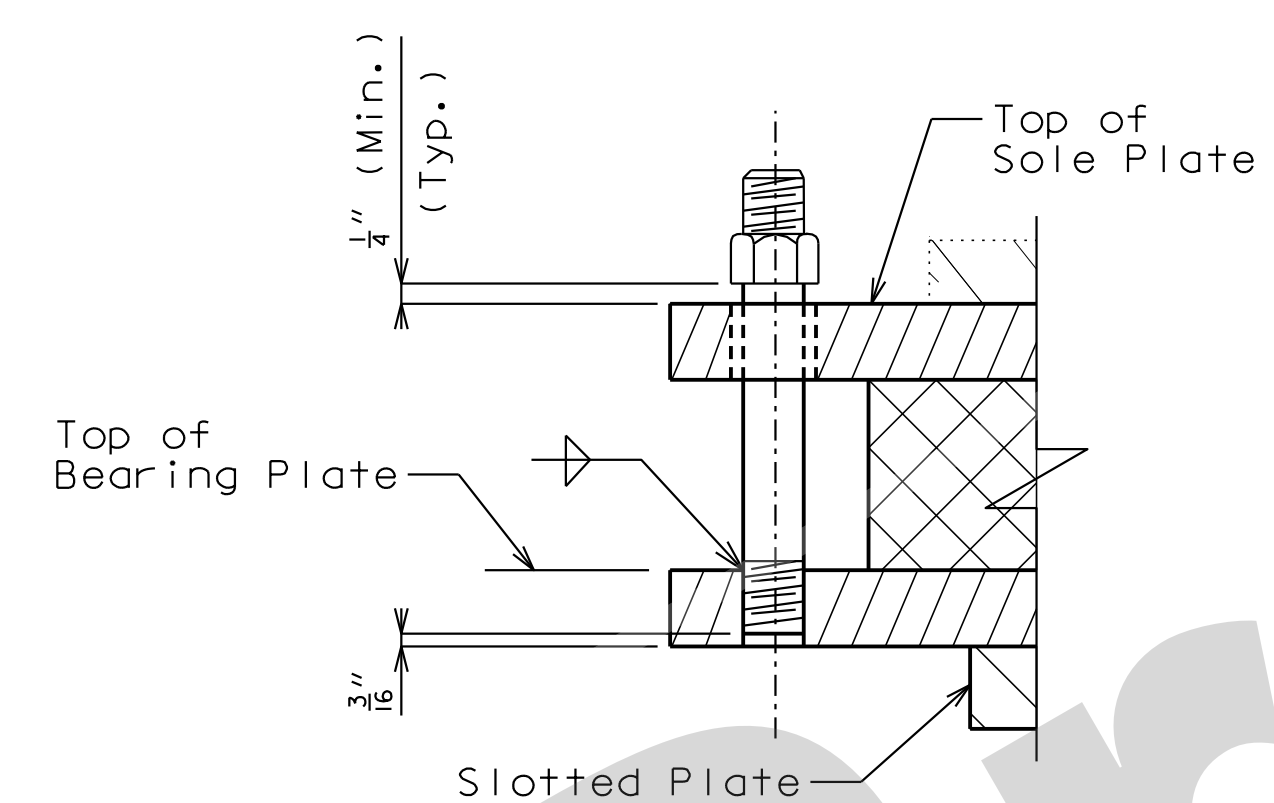
PART PLAN SHOWING BEARING PLATE



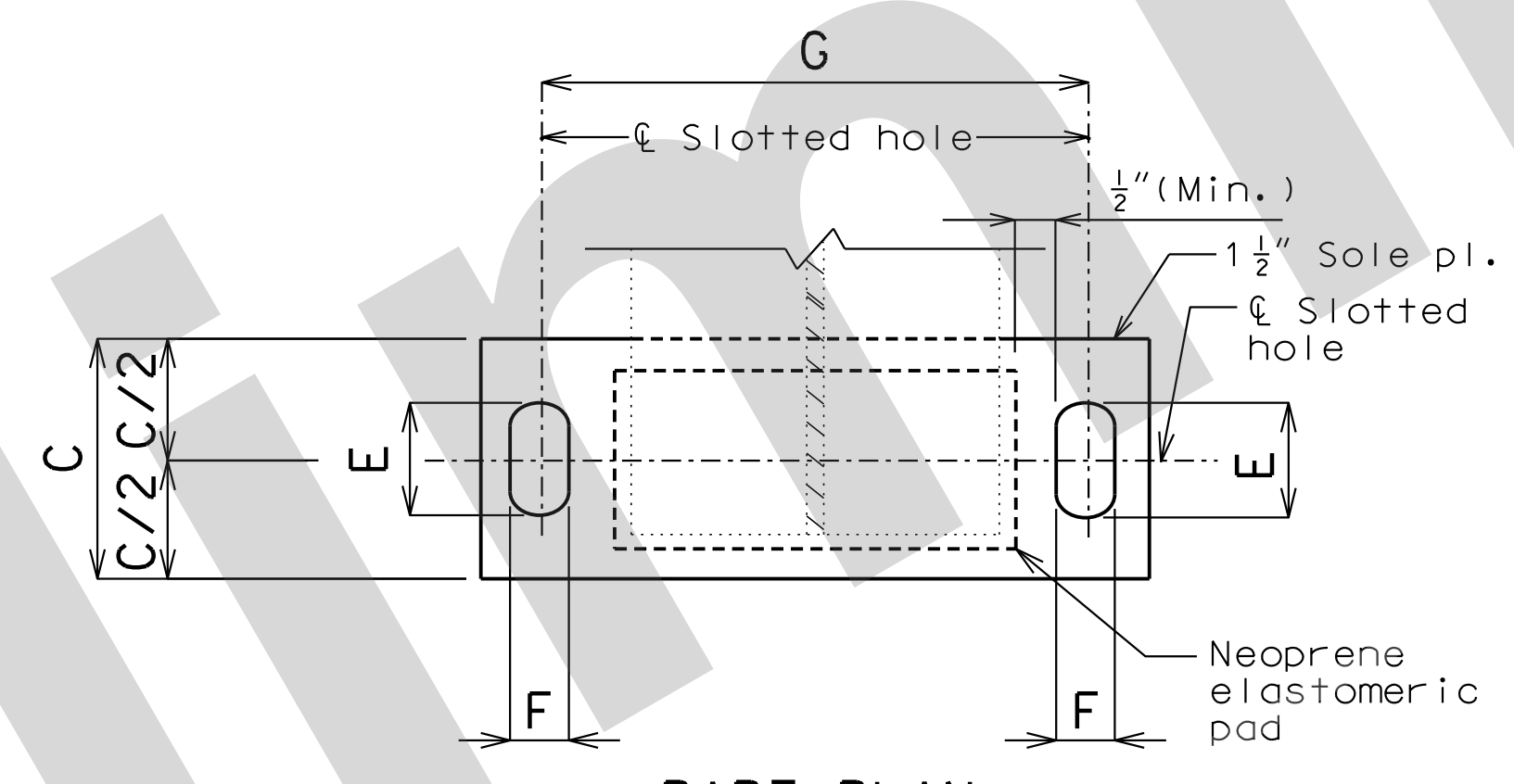
END VIEW



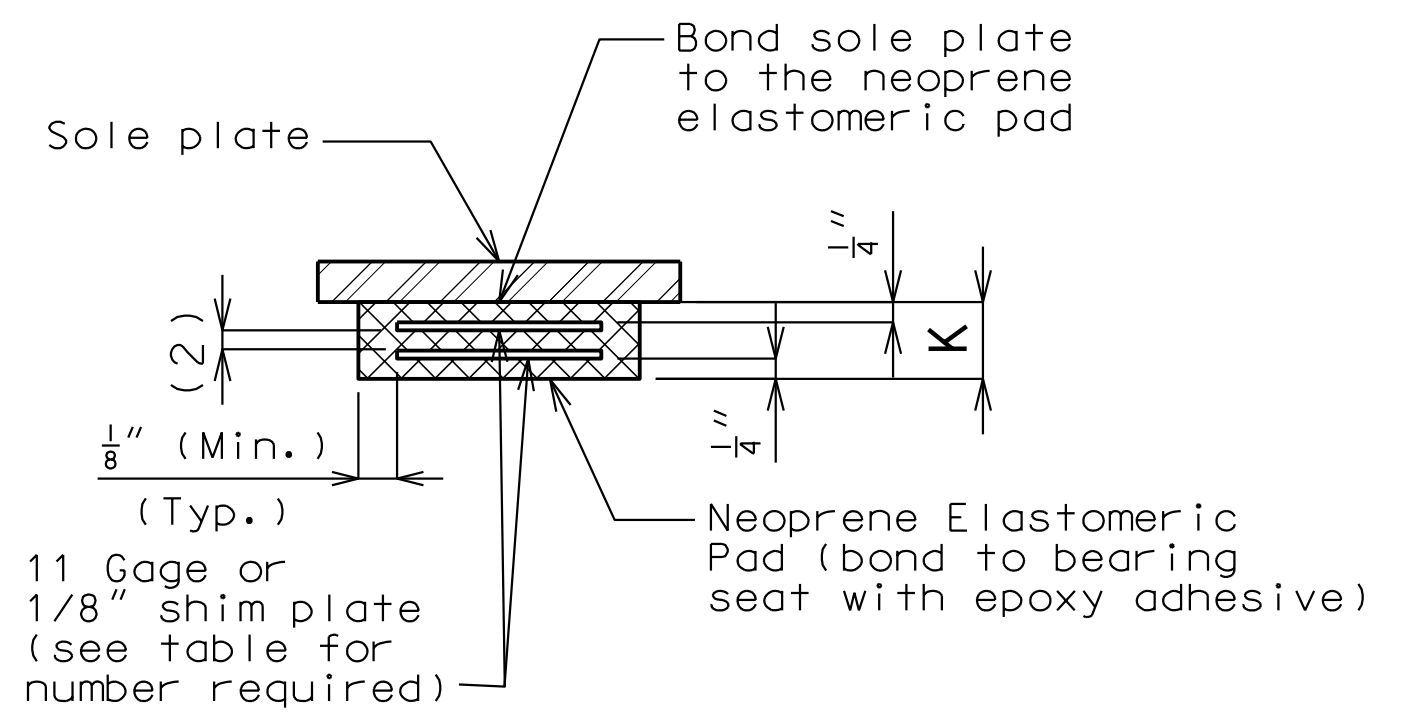
SIDE VIEW



DETAIL 1



PART PLAN SHOWING SOLE PLATE



NEOPRENE ELASTOMERIC PAD

GENERAL NOTES:

- Anchor bolts shall be 1 1/2"Ø ASTM F1554 Grade 55 bolts with ASTM 563 Grade A Hex or Heavy Hex nuts.
- Anchor bolts and heavy hex nuts shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with Sec 1081.
- Neoprene Elastomeric Pads shall be 70 Durometer.
- Structural steel for sole plate, bearing plate, and slotted plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum.
- Laminated Neoprene Bearing Pad Assembly shall be in accordance with Sec 716.
- The cost for the bearing assembly, including laminated neoprene pad, sole plate, bearing plate and anchor bolts, complete in place, will be considered completely covered by the contract unit price for Laminated Neoprene Bearing Pad Assembly.
- The cost for the slotted plate, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Carbon Steel (Misc.).

EXPANSION BEARINGS															NUMBER OF SHIM PLATES (1)	NUMBER REQUIRED	
BENT NO.	A	B	C	D	E	F	G	J	K	L	M	N	P	Q			R
Hinge near Bent 5	17"	9"	10"	26"	6"	1 5/8"	20"	5 1/2"	3 3/4"	12"	-	2 3/8"	-	3"	-	6	8
																TOTAL BEARINGS	8

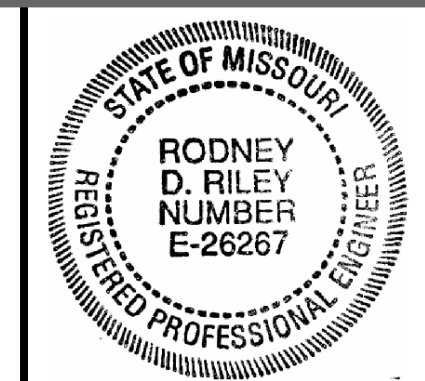
(1) The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

LAMINATED NEOPRENE BEARING PAD ASSEMBLY AT HINGE NEAR INT. BENT NO. 5

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

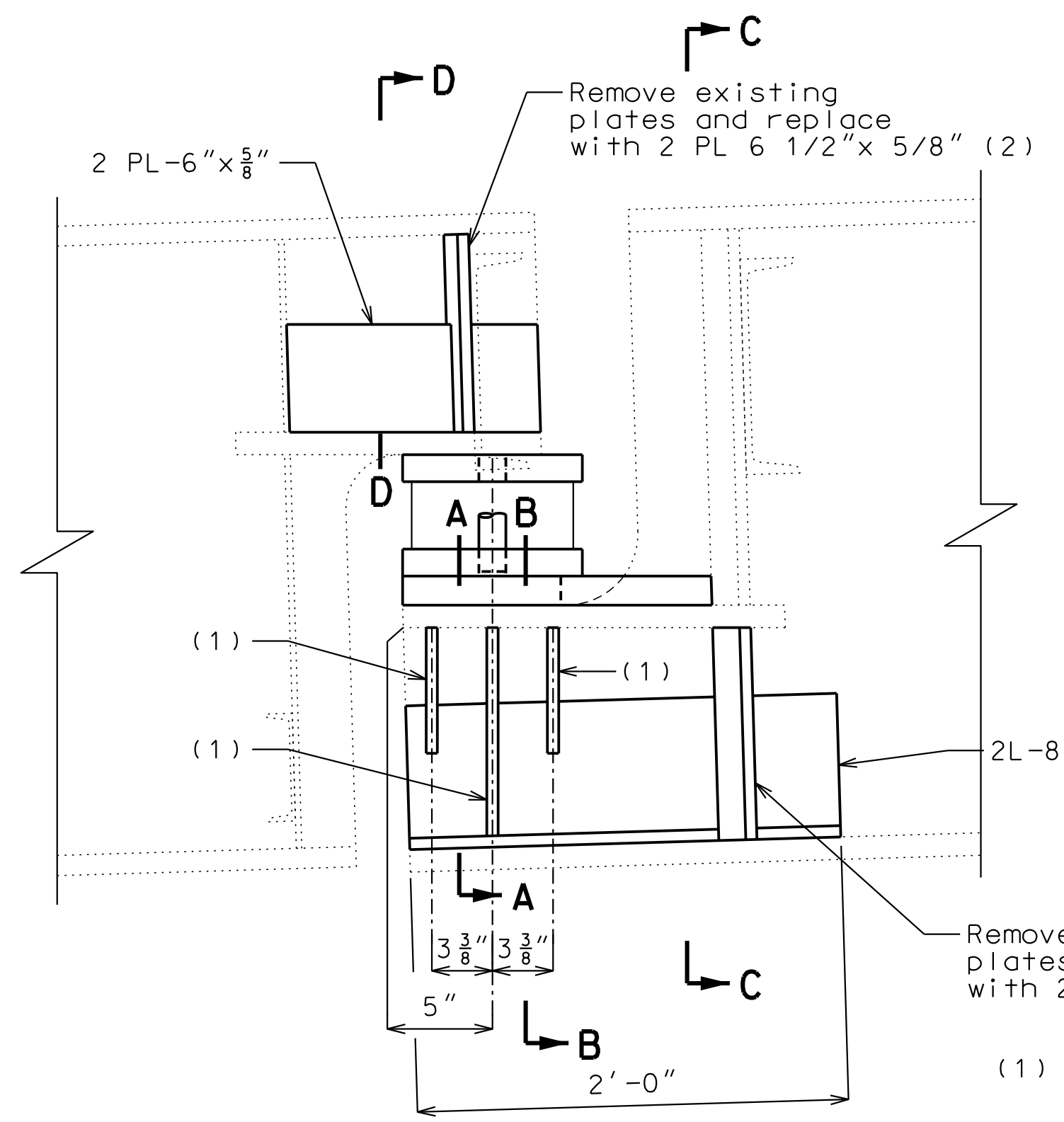
1-888-ASK-MODOT (1-888-275-6636)

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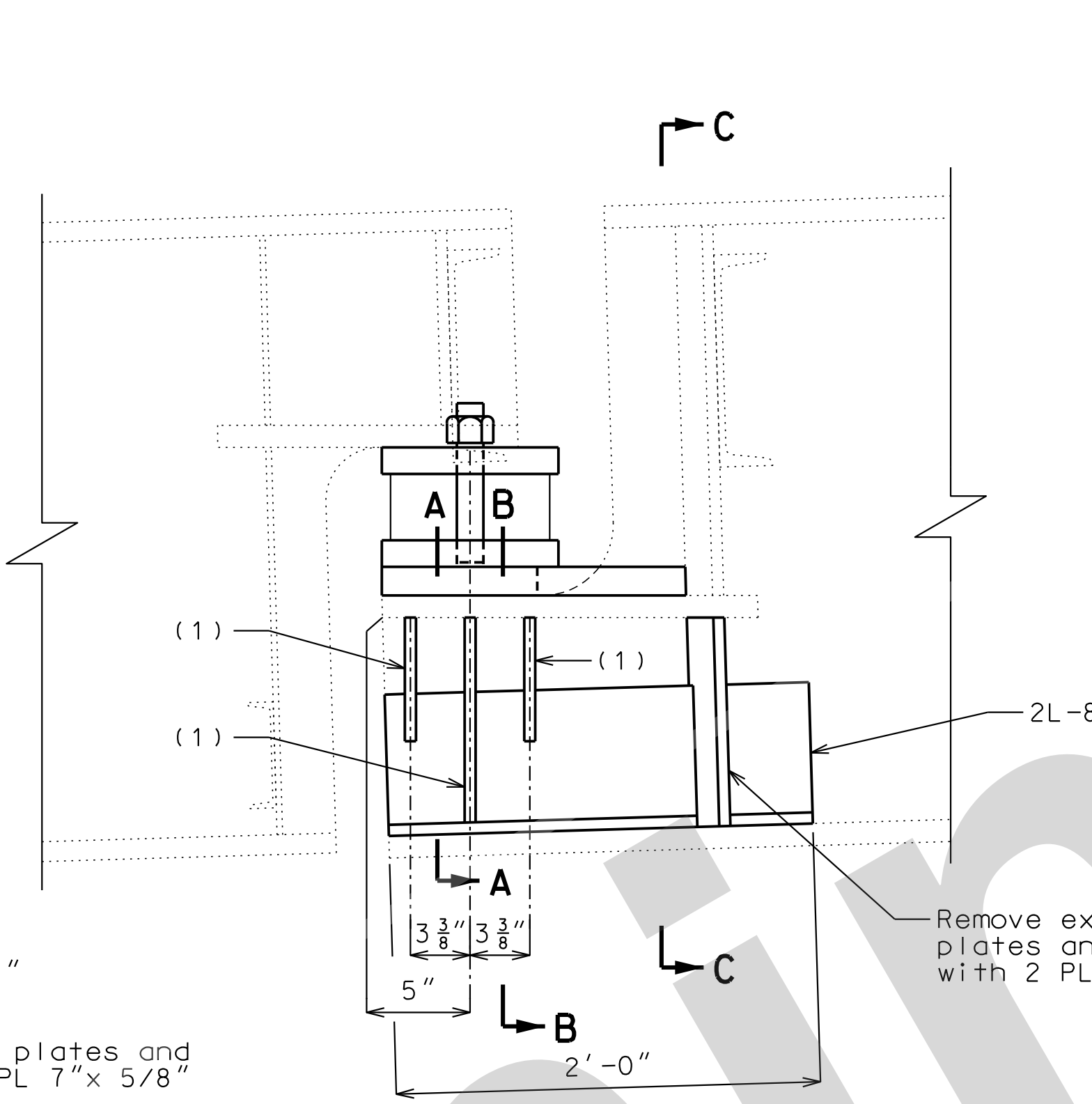
JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

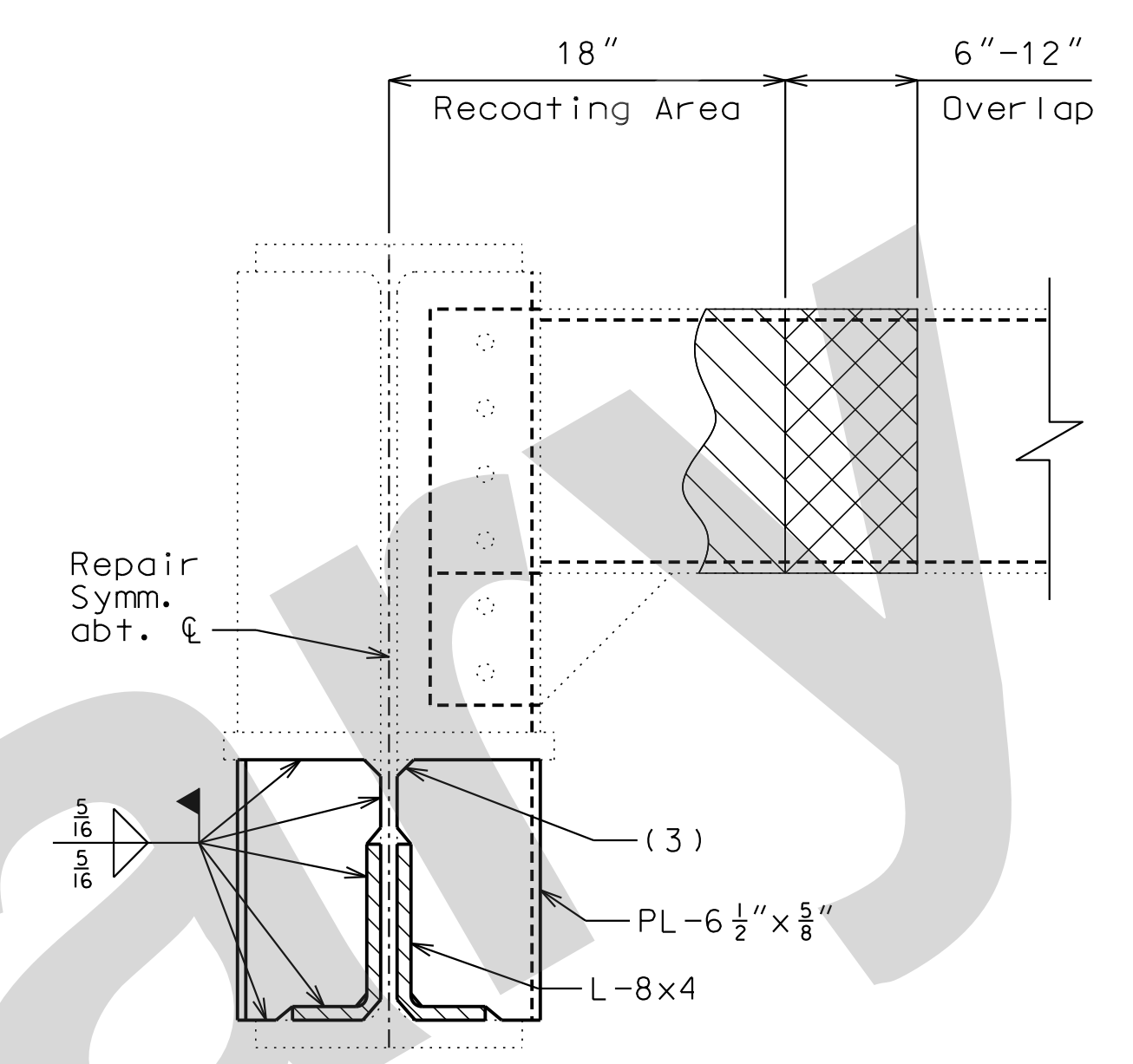
REV.



STEEL GIRDER REPAIR AT GIRDERS 1 AND 8



STEEL GIRDER REPAIR AT GIRDERS 5 AND 6



SECTION C-C

Painting limits shown at Girder 1, others similar. See Part Elevation Showing Limits Of Paint Overlap.

- (1) Remove existing plates and replace with 2 PL 7"x 5/8"
- (2) Field drill plate and reconnect existing channels.
- (3) 3/4" chamfer (Typ.)

NOTES:

Fabricated structural steel shall be ASTM A709 Grade 36, except as noted.

The cost of new structural steel and removal of existing structural steel will be completely covered by the contract price per pound for Fabricated Structural Carbon Steel (Misc.).

Bolts shall be 7/8" dia. ASTM F3125 Type 1 in 15/16" holes.

The contractor shall verify all dimensions in field before ordering material.

For Laminated Neoprene Bearing Pad Assembly details, see Sheet No. 4.

Protective Coating: System G in accordance with Sec 1081.

Surface preparation of the existing steel shall be in accordance with Sec 1081 for Recoating of Structural Steel (System G). The cost of surface preparation will be considered completely covered by the contract price per sq. foot for Surface Preparation for Recoating Structural Steel.

Prime Coat (New Steel): The cost of the prime coat will be considered completely covered by the contract unit price for the fabricated structural steel.

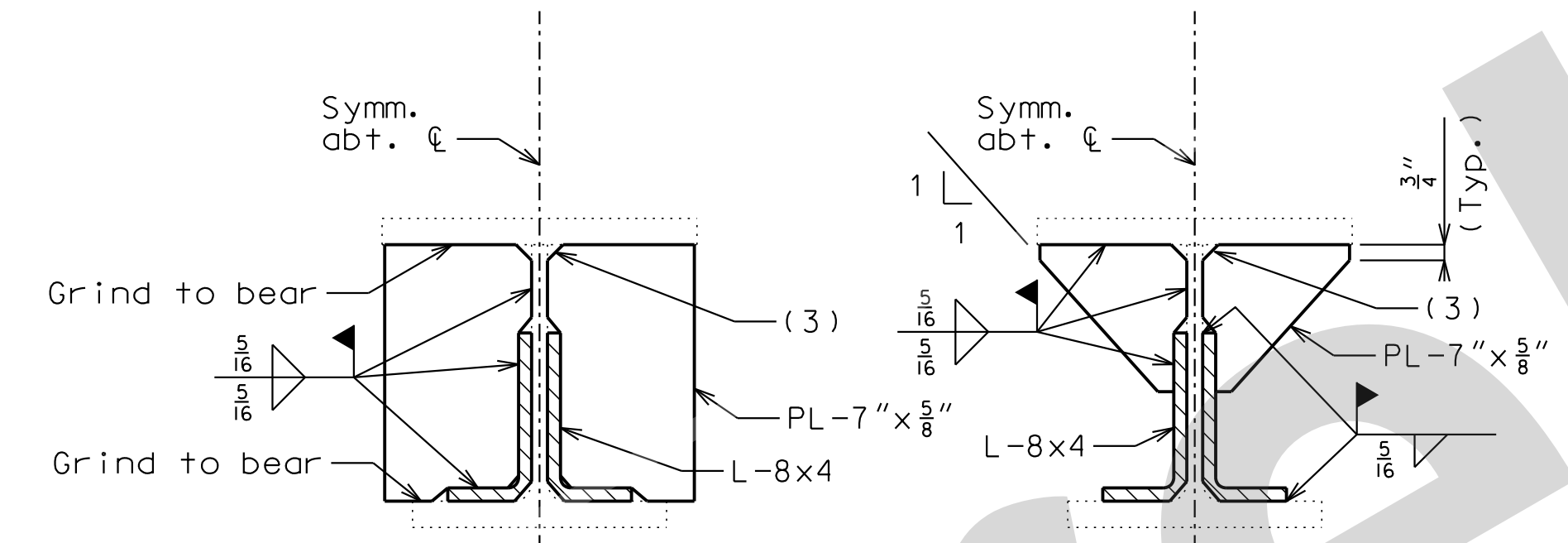
Prime Coat (Existing Steel): The cost of the prime coat will be considered completely covered by the contract unit price per sq. foot for Field Application of Inorganic Zinc Primer. Tint of the prime coat for System G shall be similar to the color of the field coat to be used.

At the option of the contractor, the intermediate field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.

Field Coat(s): The color of the field coat(s) shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be completely covered by the contract unit price per sq. foot for Intermediate Field Coat (System G).

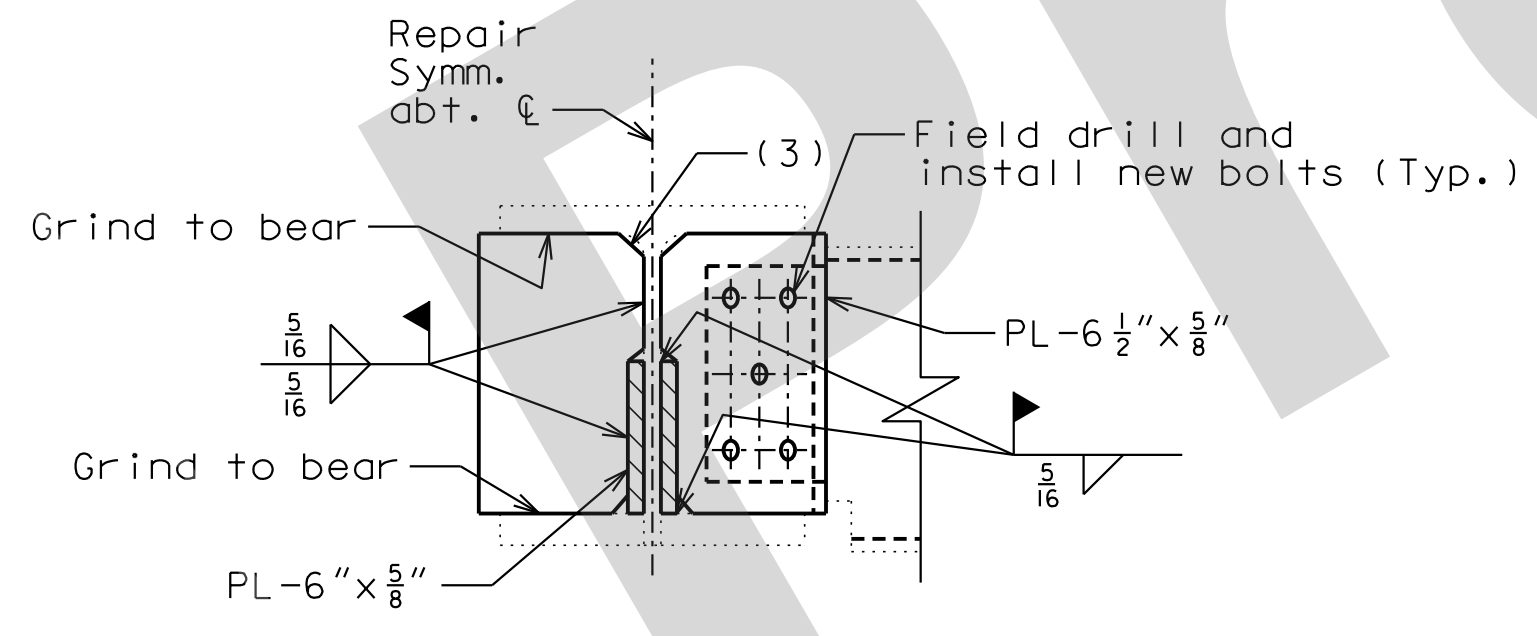
Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

System G shall overlap the existing coating between 6 inches and 12 inches in order to achieve maximum coverage at the paint limit of each complete system. The intermediate coating shall be masked to provide crisp, straight lines and to prevent overspray beyond the overlap required.



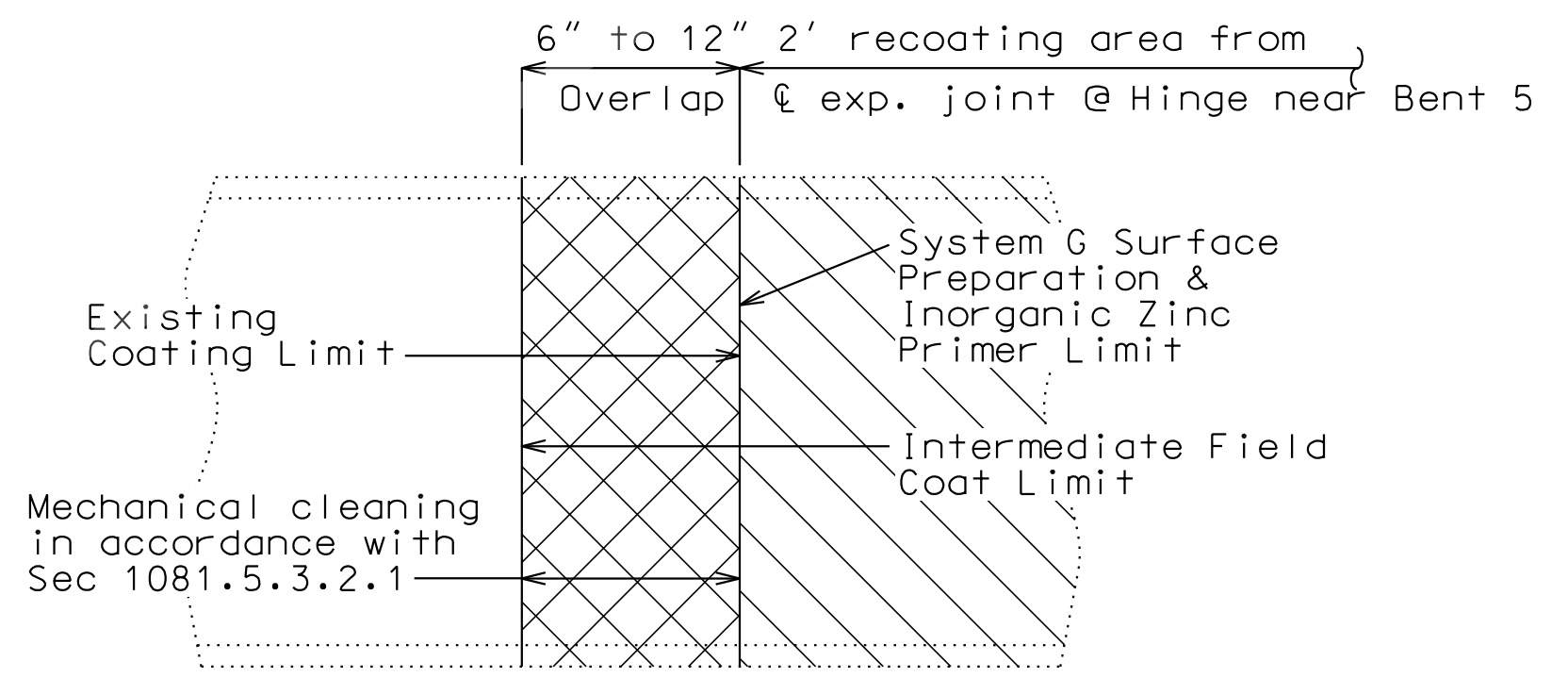
SECTION A-A

SECTION B-B



SECTION D-D

Girder 1 shown
Girder 8 similar



PART ELEVATION SHOWING LIMITS OF PAINT OVERLAP
(Vertical or horizontal paint limit. Horizontal limit shown)

STRUCTURAL STEEL REPAIR NEAR INT. BENT NO. 5

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 6

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

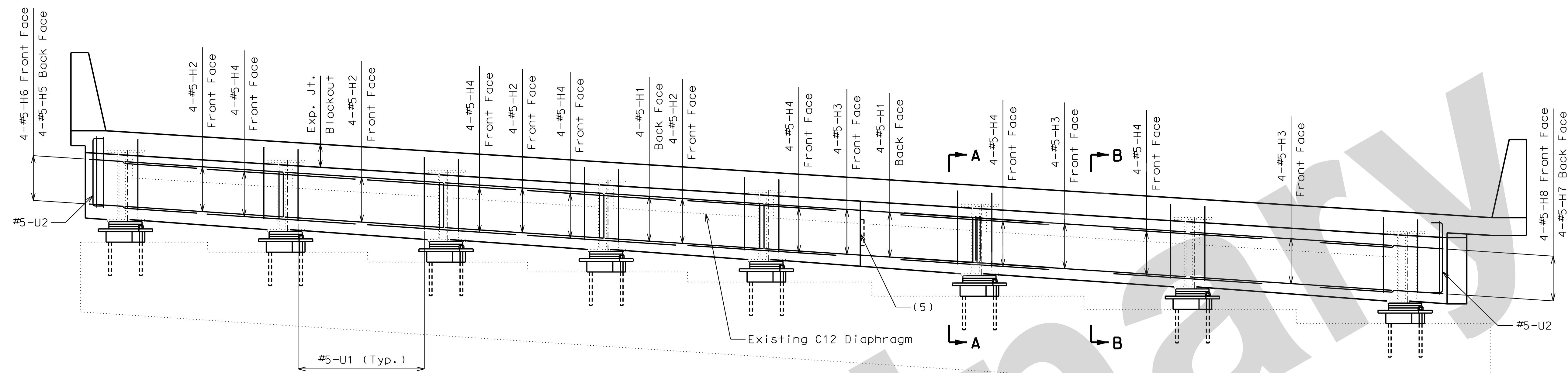
BRIDGE NO. A10852

DATE	DESCRIPTION

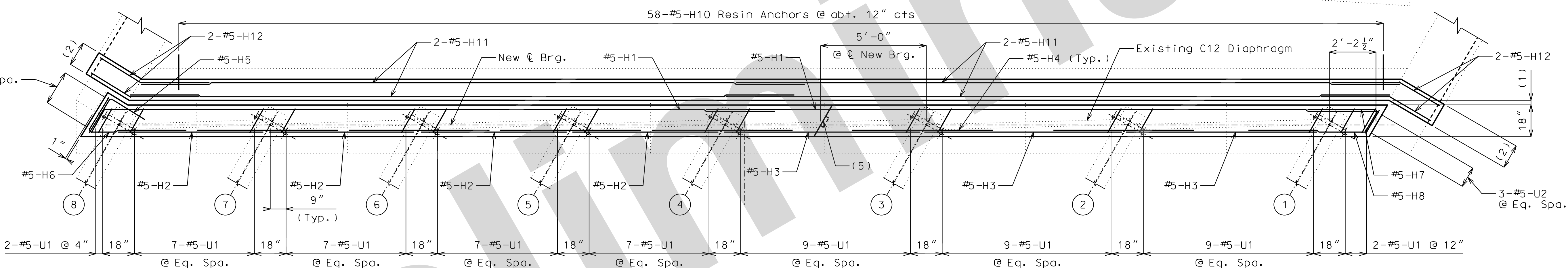
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

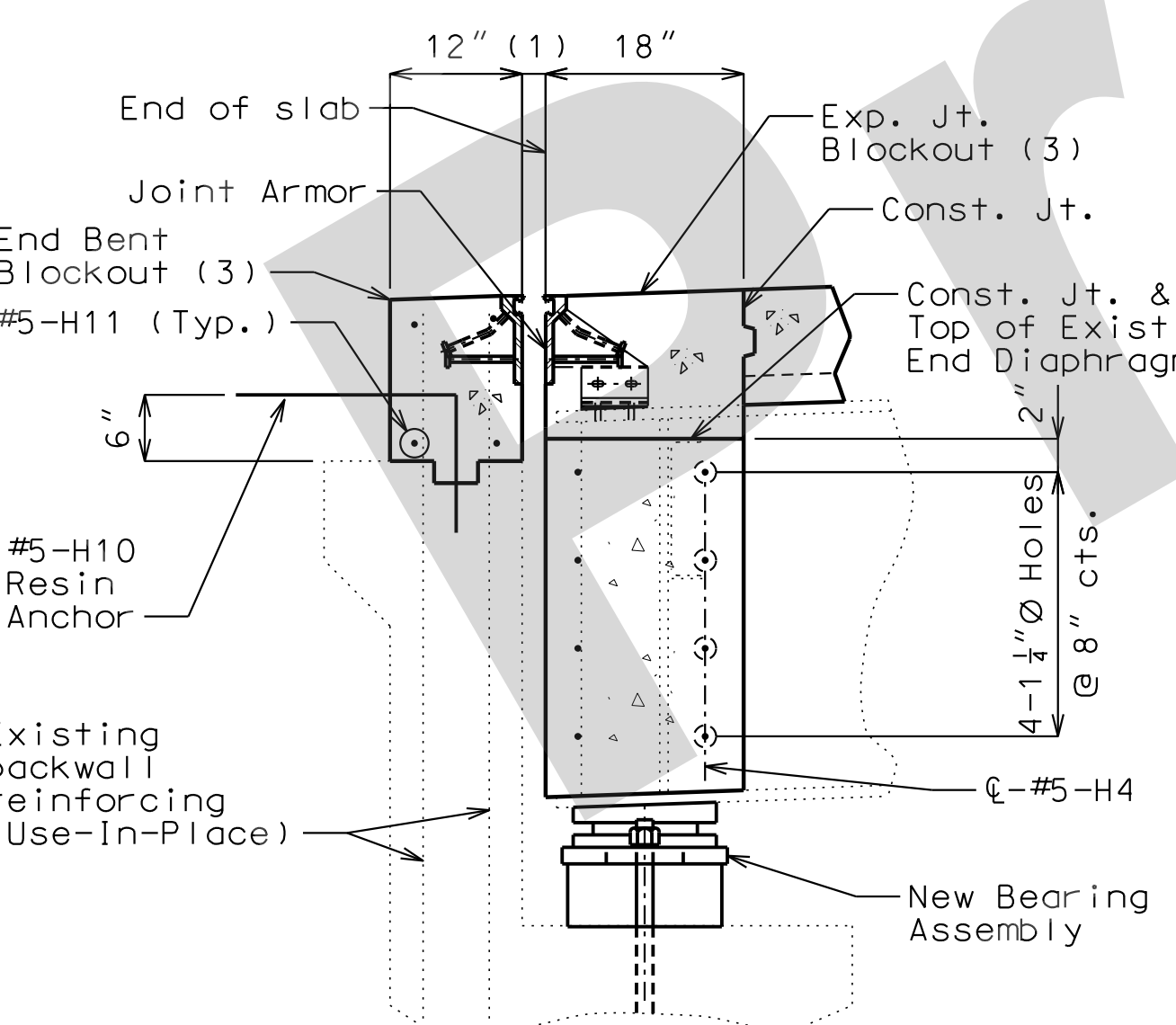
JACOBS ENGINEERING GROUP
301 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



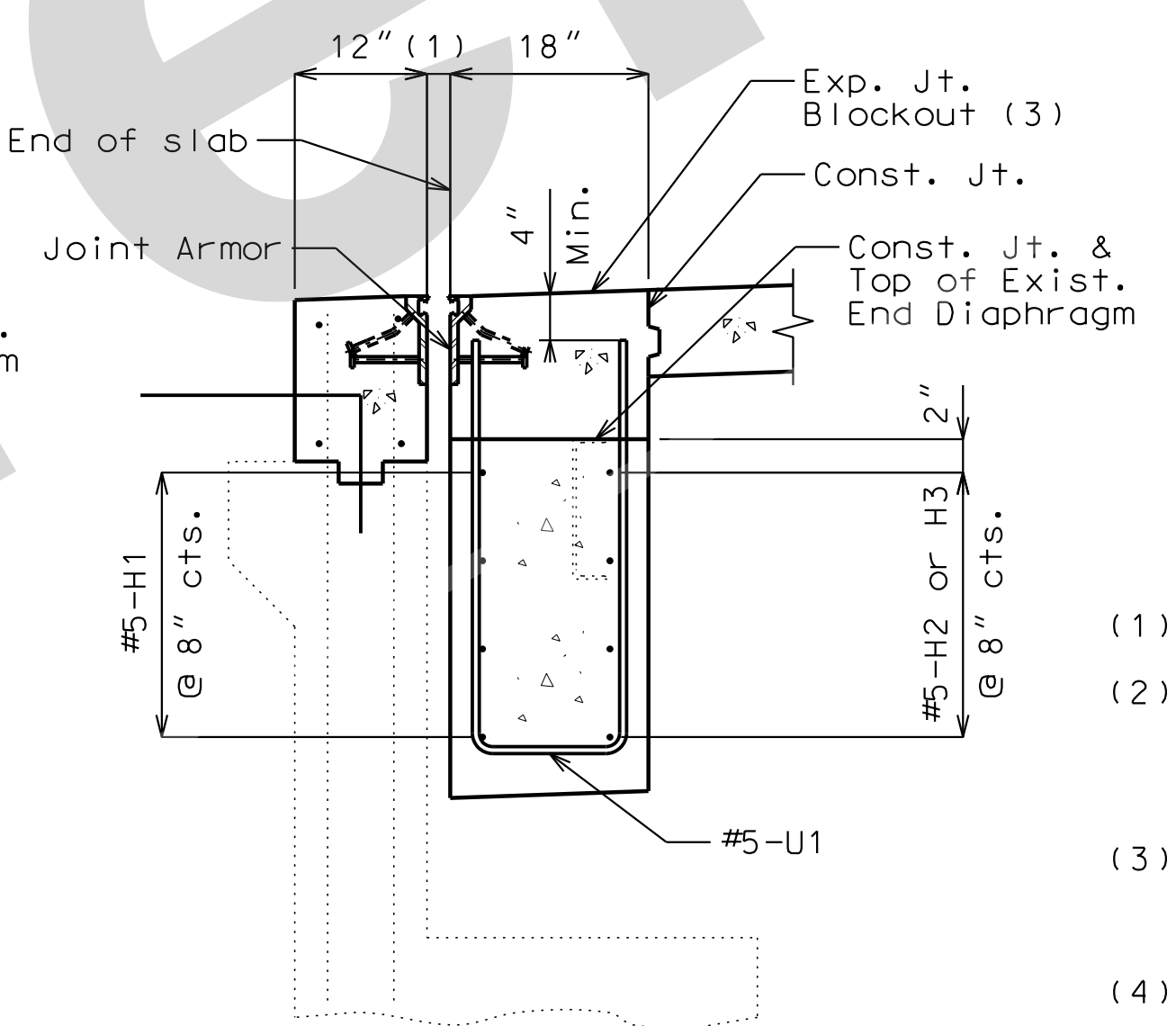
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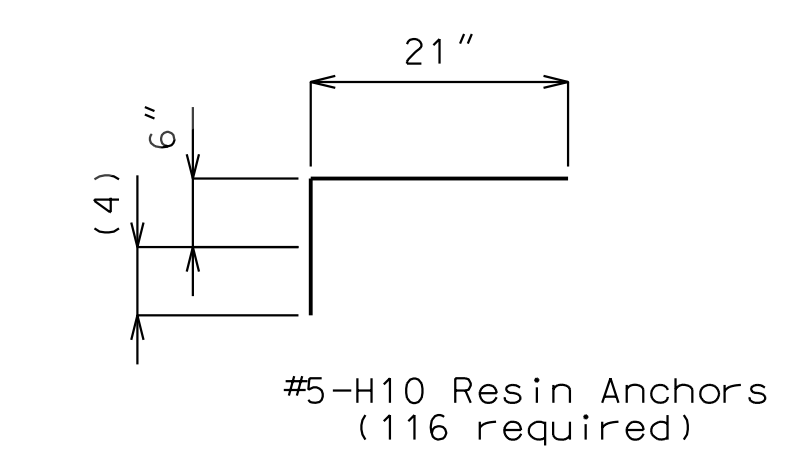
PLAN



SECTION A-A



SECTION B-B



DETAILS OF #5-H10 RESIN ANCHOR SYSTEM

- (1) See "Strip Seal Expansion Joint System at End Bents".
- (2) Remove portion of Existing Wingwall to extend End Bent Blockout to edge of slab. Existing reinforcing shall be cleaned, straightened, and incorporated into blockout.
- (3) Concrete for blockouts (above construction joint) shall be Ultra High Performance Concrete (UHPC), see special provisions.
- (4) Manufacturer's recommended embedment length (5" min.)
- (5) Optional Keyed Construction Joint 14"x2"x6"

Notes:

For existing End Bent details see As-Built Plans Sheet No. 13 of 34.

Top of backwall for End Bent No. 1 shall be formed to the slope and grade of the roadway. Backwall above the upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

All concrete below the upper construction joint shall be Class B-2 Concrete.

All concrete and reinforcement in the concrete diaphragms at the end bents is included the Estimated Quantities for Slab on Steel.

RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

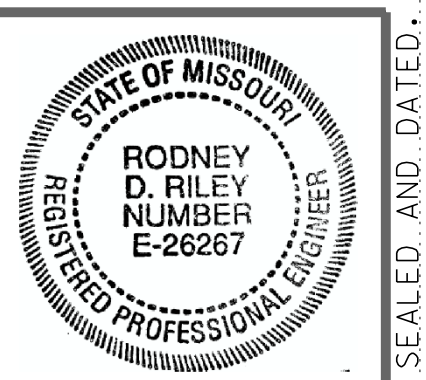
The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Ultra-High-Performance Concrete.

DIAPHRAGM - END BENT 1

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613149
CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

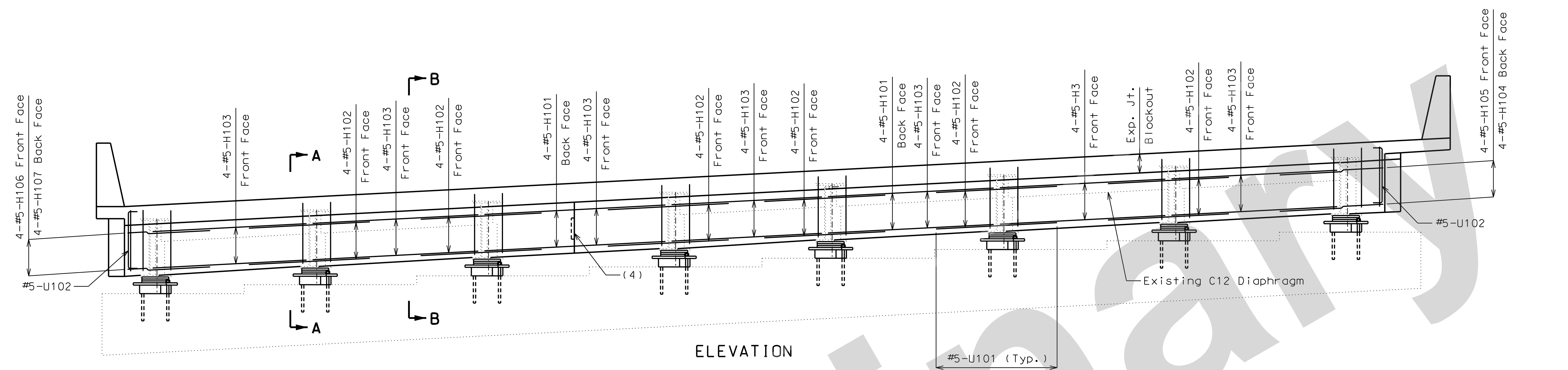
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

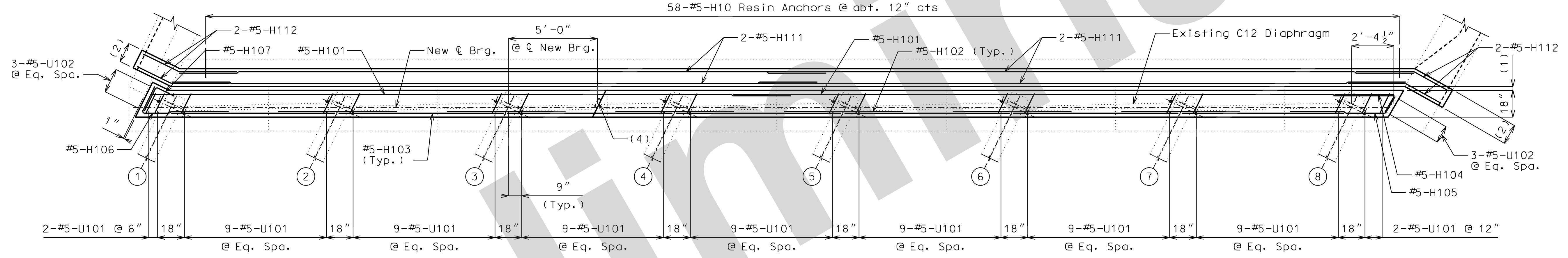
105 WEST CAPITAL
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Jacobs
JACOBS ENGINEERING GROUP
801 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
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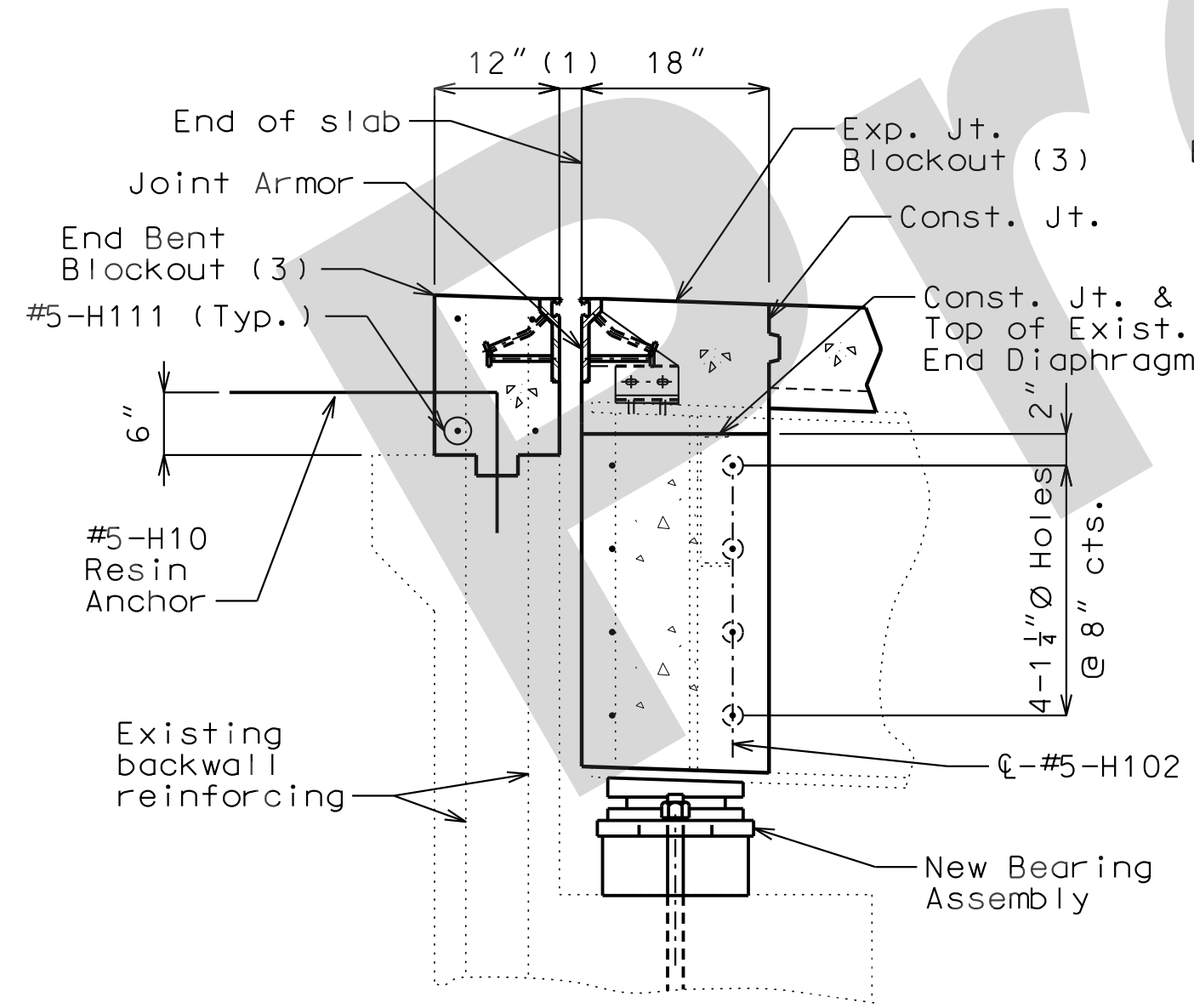
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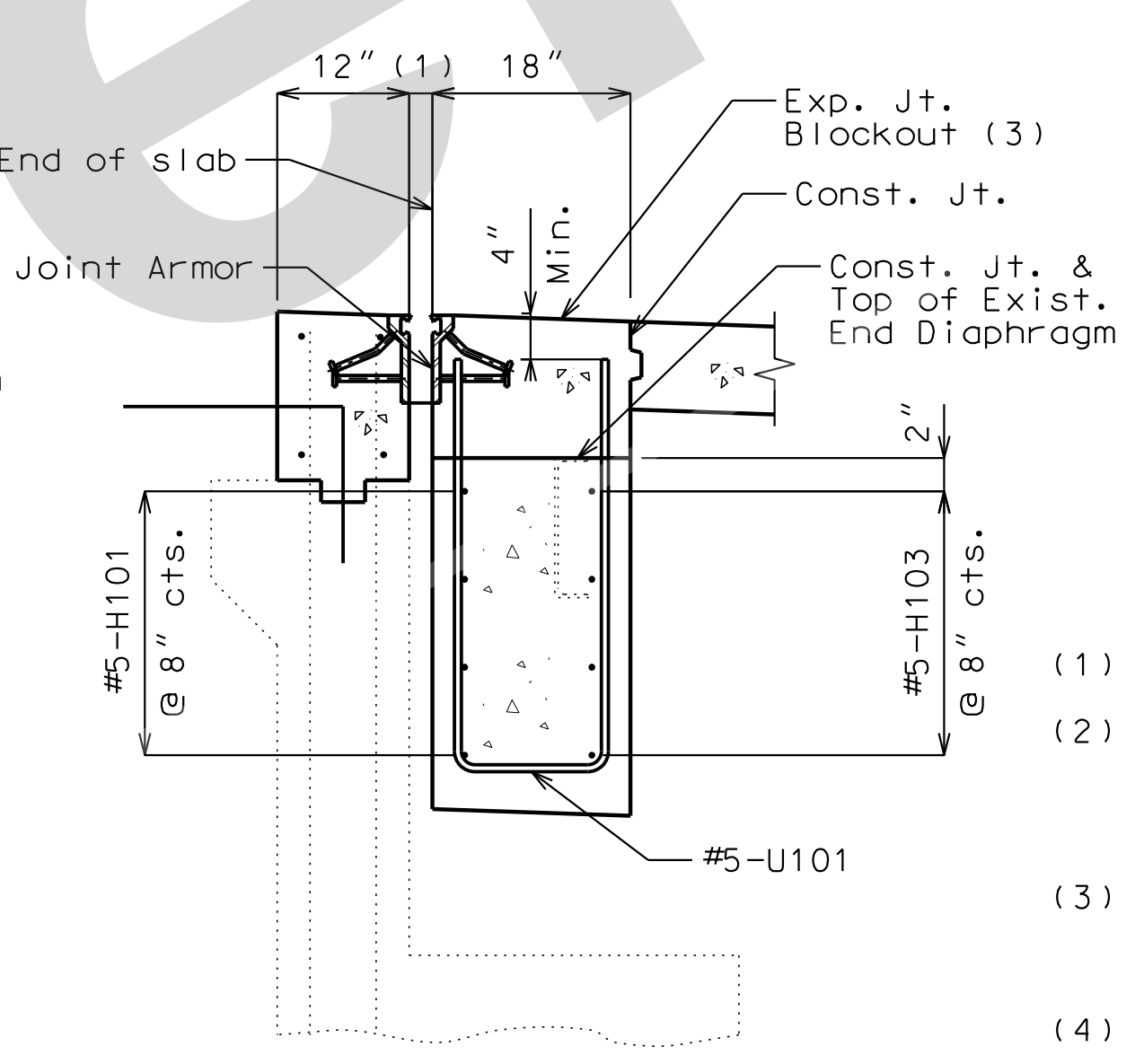
ELEVATION



PLAN



SECTION A-A



SECTION B-B

DIAPHRAGM - END BENT 9

- (1) See "Strip Seal Expansion Joint System at End Bents".
- (2) Remove portion of Existing Wingwall to extend End Bent Blockout to edge of slab. Existing reinforcing shall be cleaned, straightened, and incorporated into blockout.
- (3) Concrete for blockouts (above construction joint) shall be Ultra High Performance Concrete (UHPC), see special provisions.
- (4) Optional Keyed Construction Joint 14"x2"x6"

Notes:

For existing End Bent 9 and girder spacing details see As-Built Plans, see Sheets No. 17 and 23 of 34.

Top of backwall for End Bent No. 9 shall be formed to the slope and grade of the roadway. Backwall above the upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

All concrete below the upper construction shall be Class B-2 Concrete.

All concrete and reinforcement in the concrete diaphragms at the end bents is included in the Estimated Quantities for Slab on Steel.

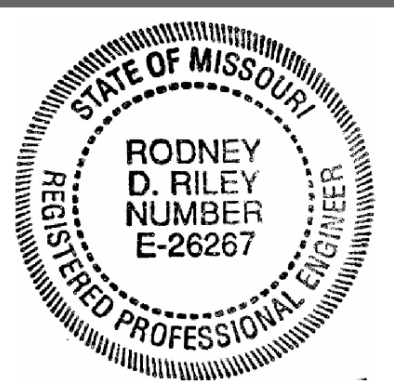
For details and notes for #5-H10 Resin Anchors, see Sheet No. 7.

Work this sheet with Sheet No. 6.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 22-SEP-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

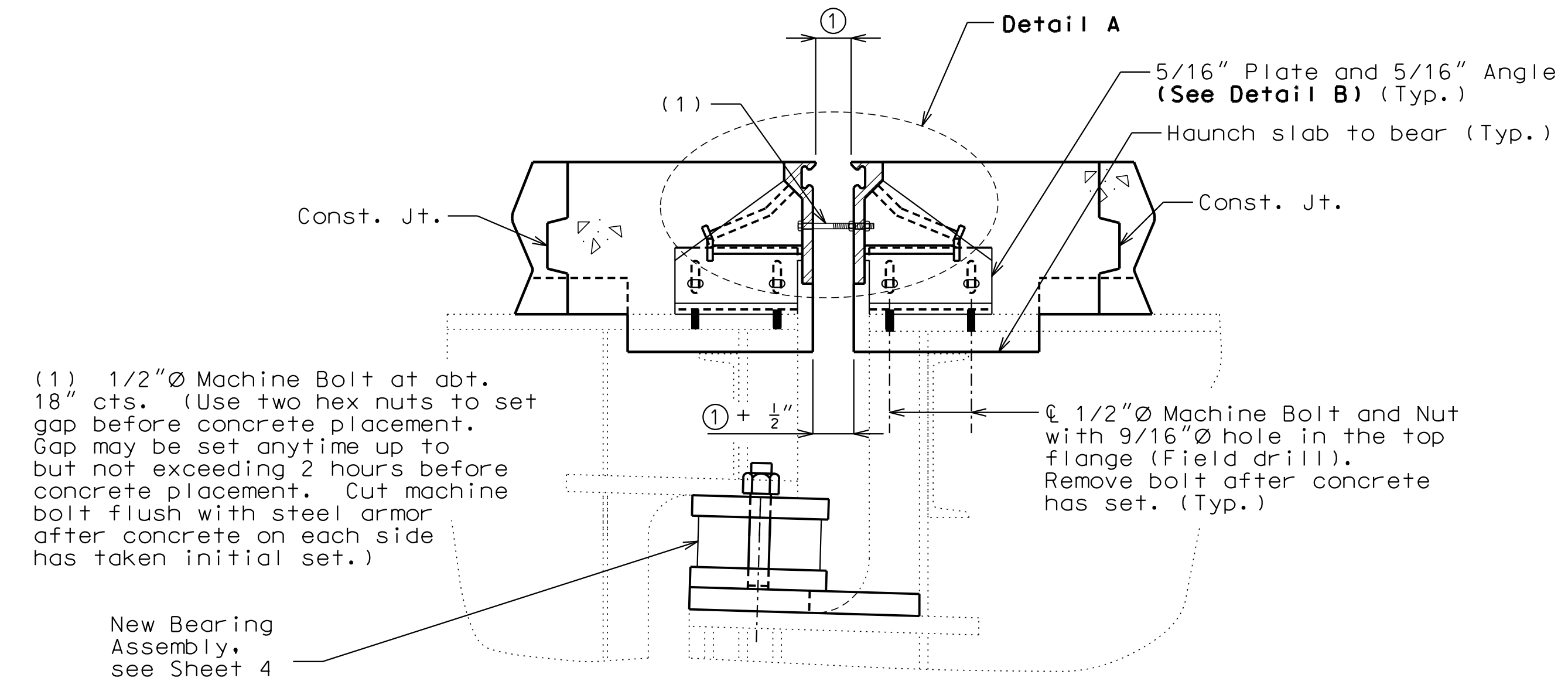
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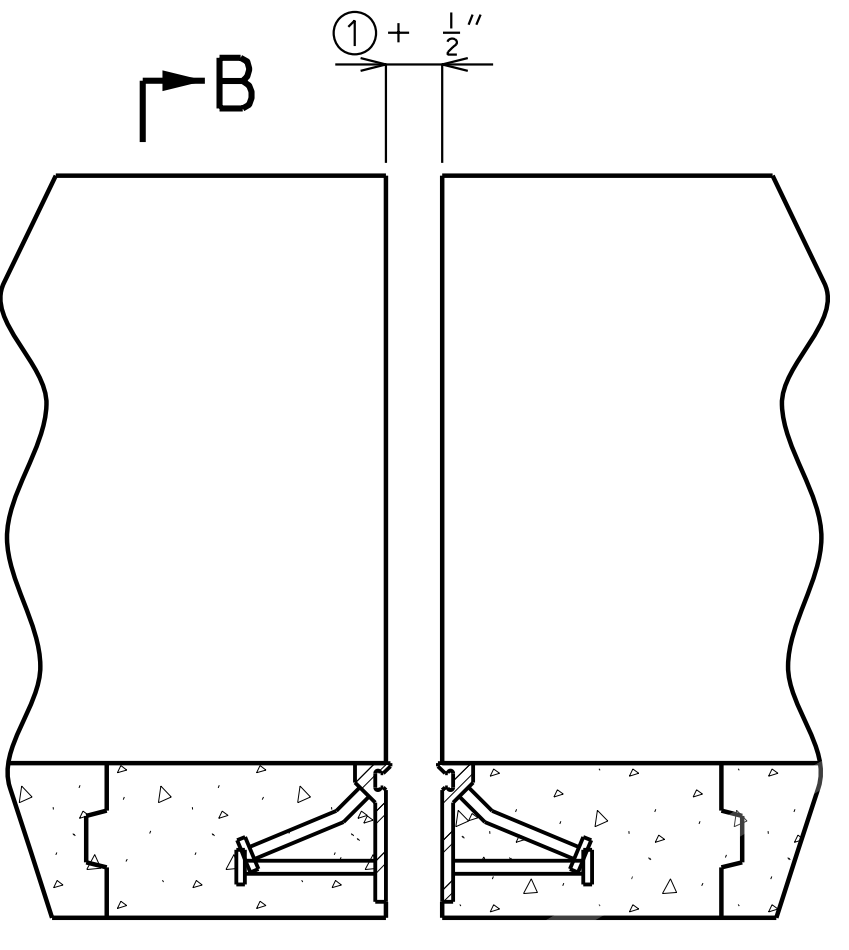
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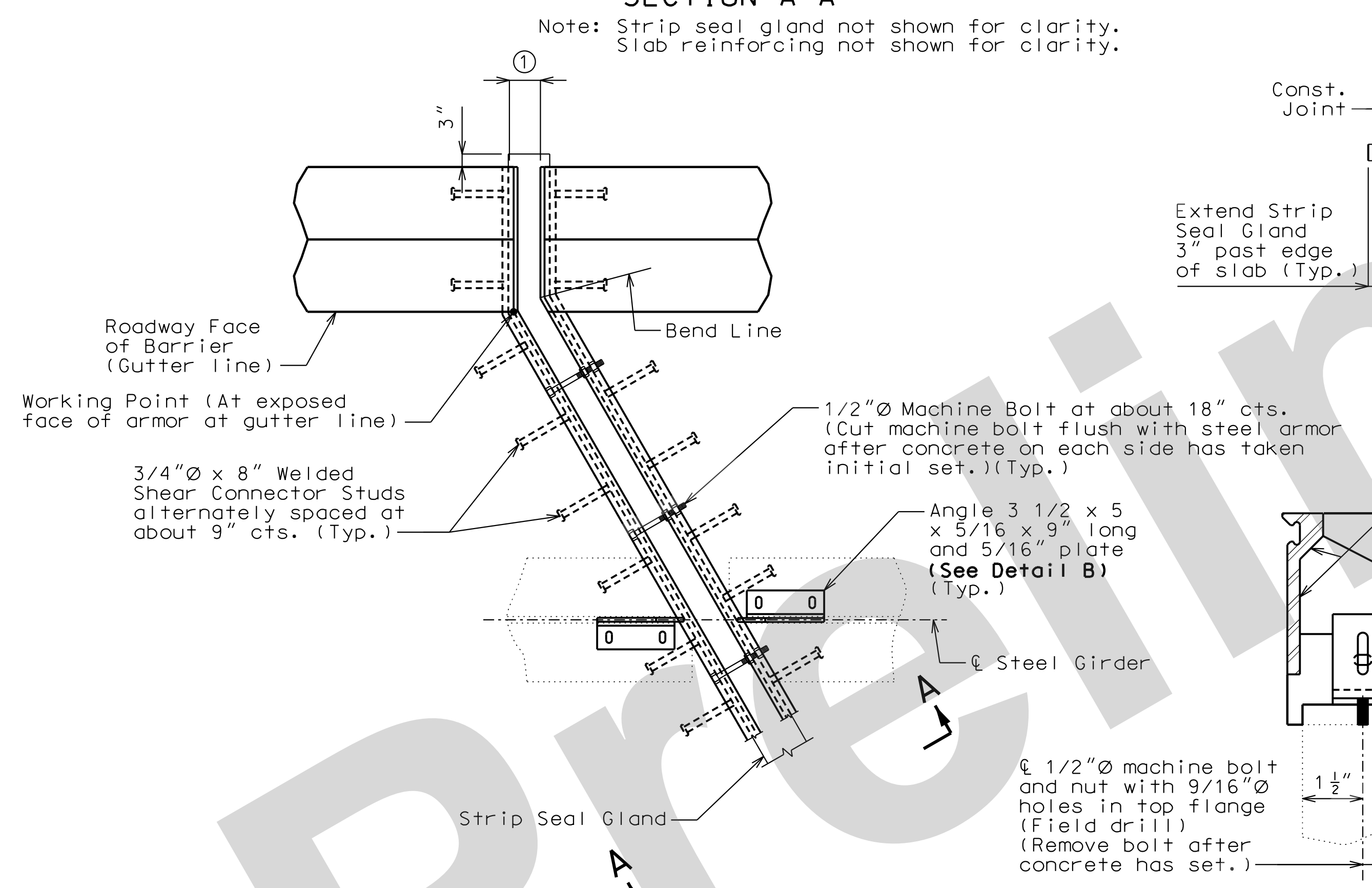


(1) 1/2"Ø Machine Bolt at abt. 18" cts. (Use two hex nuts to set gap before concrete placement. Gap may be set anytime up to but not exceeding 2 hours before concrete placement. Cut machine bolt flush with steel armor after concrete on each side has taken initial set.)

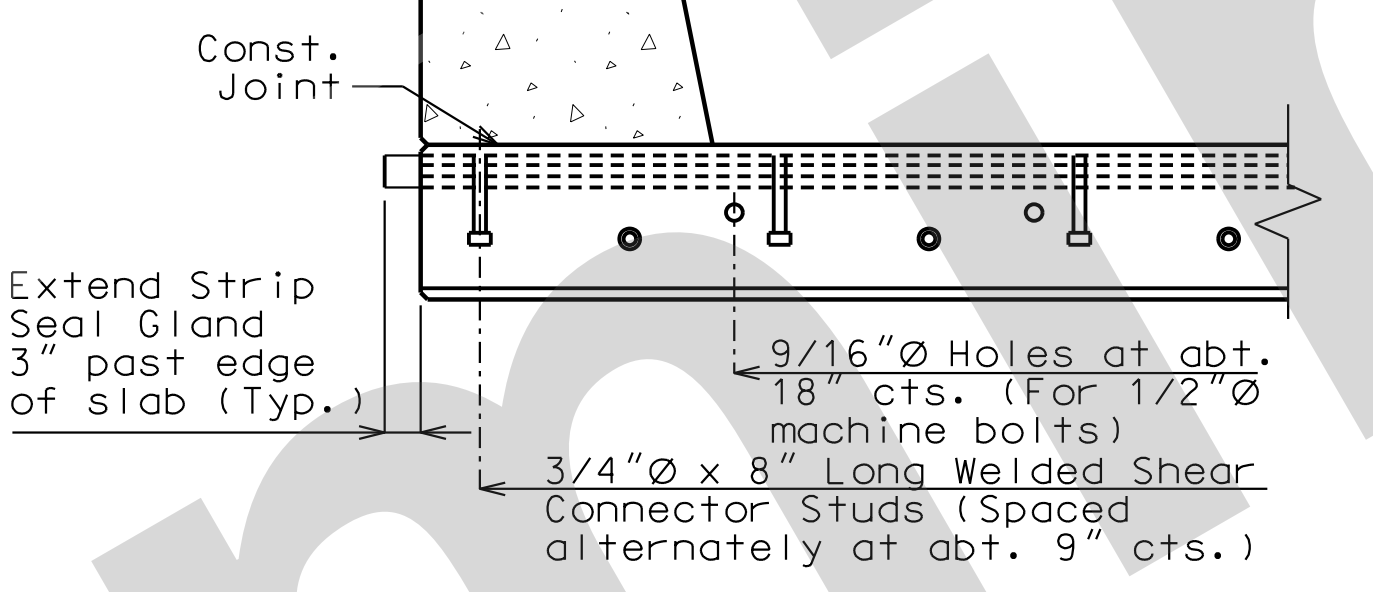
SECTION A-A
Note: Strip seal gland not shown for clarity. Slab reinforcing not shown for clarity.



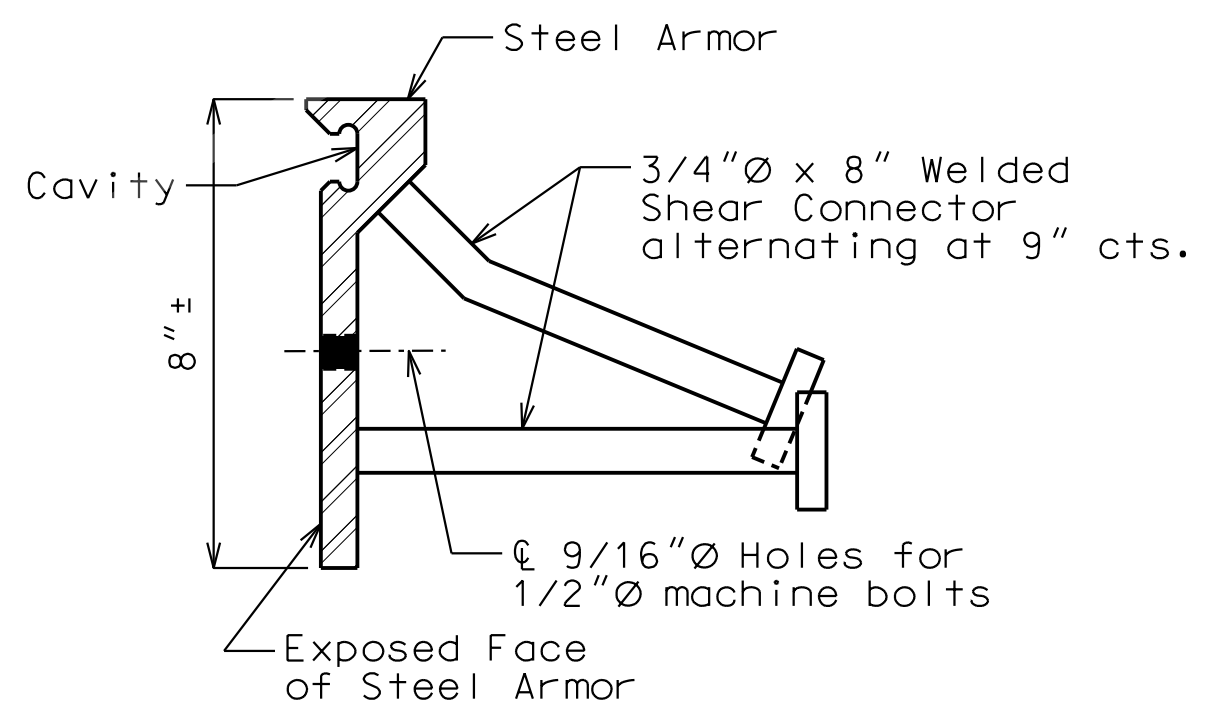
PART ELEVATION OF BARRIER
Strip seal gland not shown for clarity.



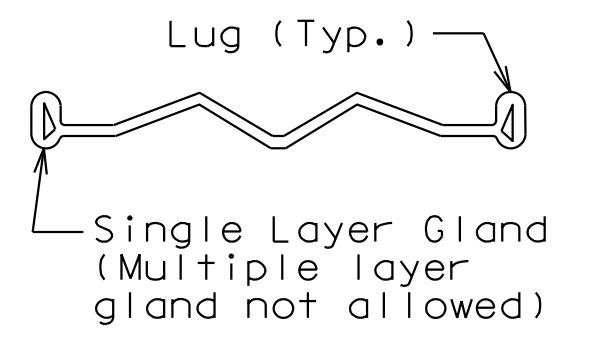
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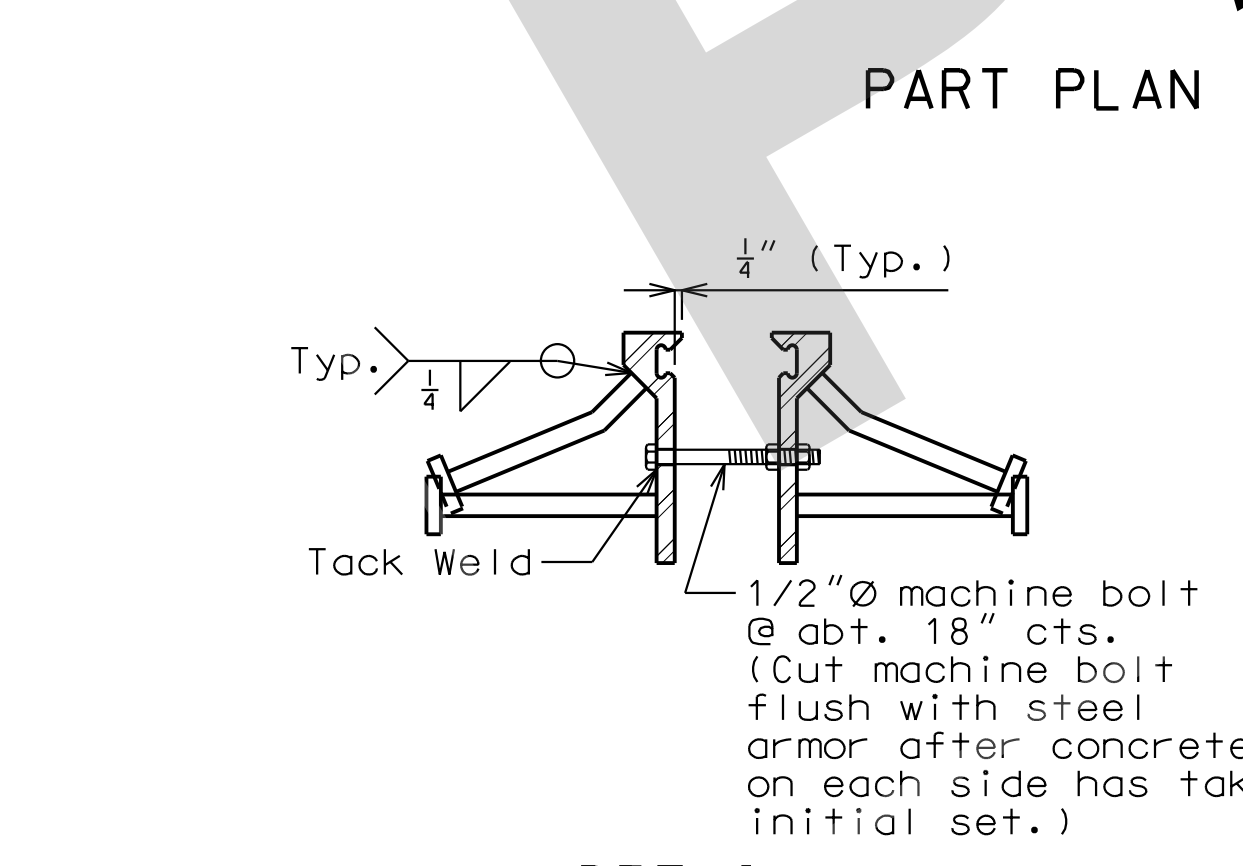
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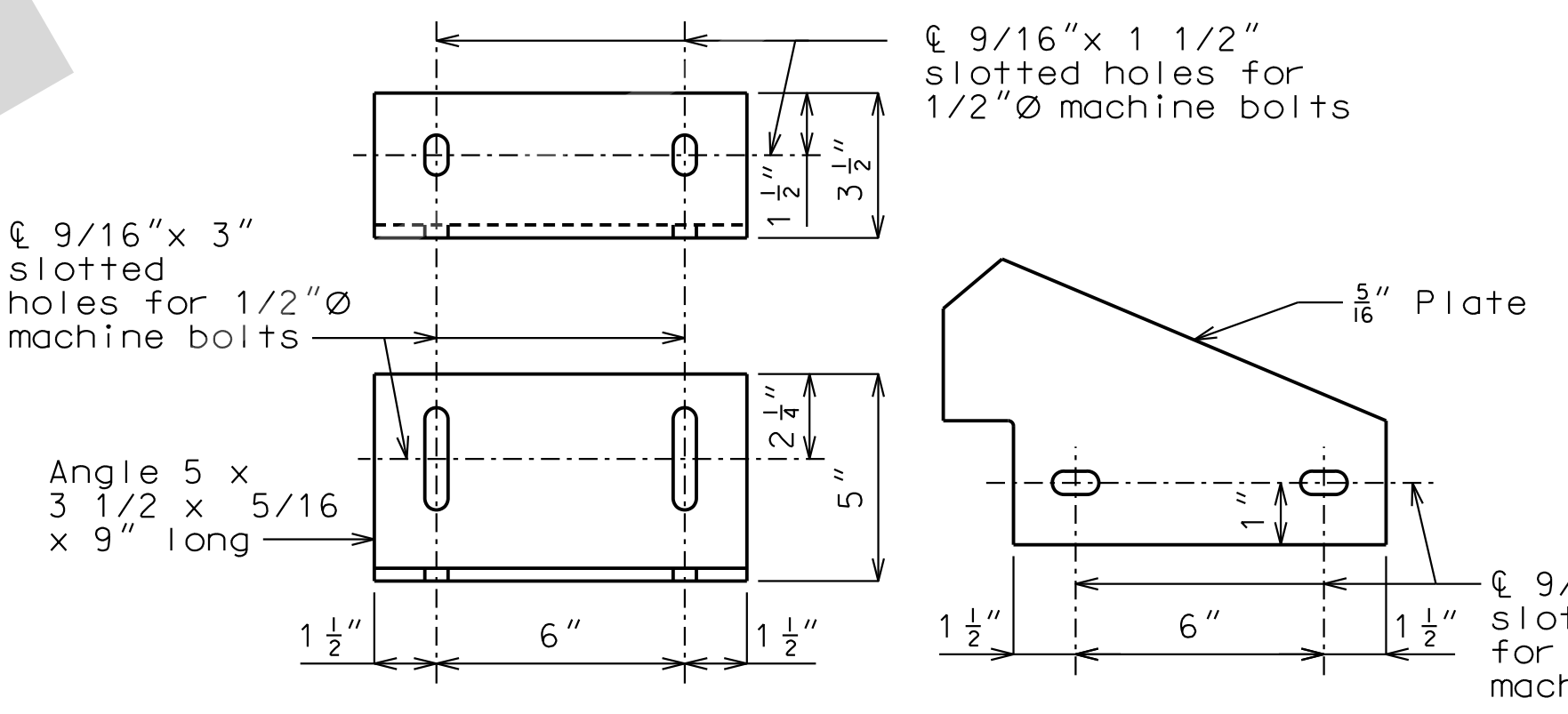
DETAIL OF JOINT ARMOR



DETAIL OF GLAND



DETAIL A



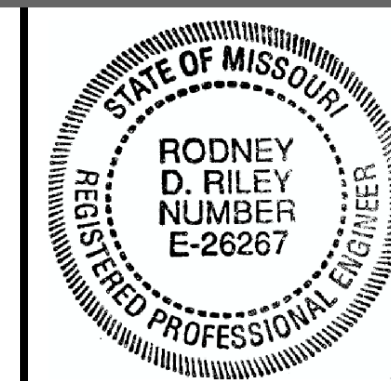
DETAIL B

Table of Allowed Transverse Strip Seal Expansion Joint System									
Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	Allowed Installation Gap						③
			① Normal to Joint at RDWY Surface @ Air/Surface Temperature ②						
			@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F	
D S Brown	Strip seal L2-400	2 1/8"	2 1/2"	2 3/8"	2 1/4"	2 1/8"	2"	1 7/8"	□
D S Brown	Strip seal L2-500	2 1/8"	2 1/2"	2 3/8"	2 1/4"	2 1/8"	2"	1 7/8"	□
Watson Bowman Acme (Wabo)	Strip seal SE-400	2 1/8"	2 1/2"	2 3/8"	2 1/4"	2 1/8"	2"	1 7/8"	□

STRIP SEAL EXPANSION JOINT SYSTEM NEAR INTERMEDIATE BENT NO. 5

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 10 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

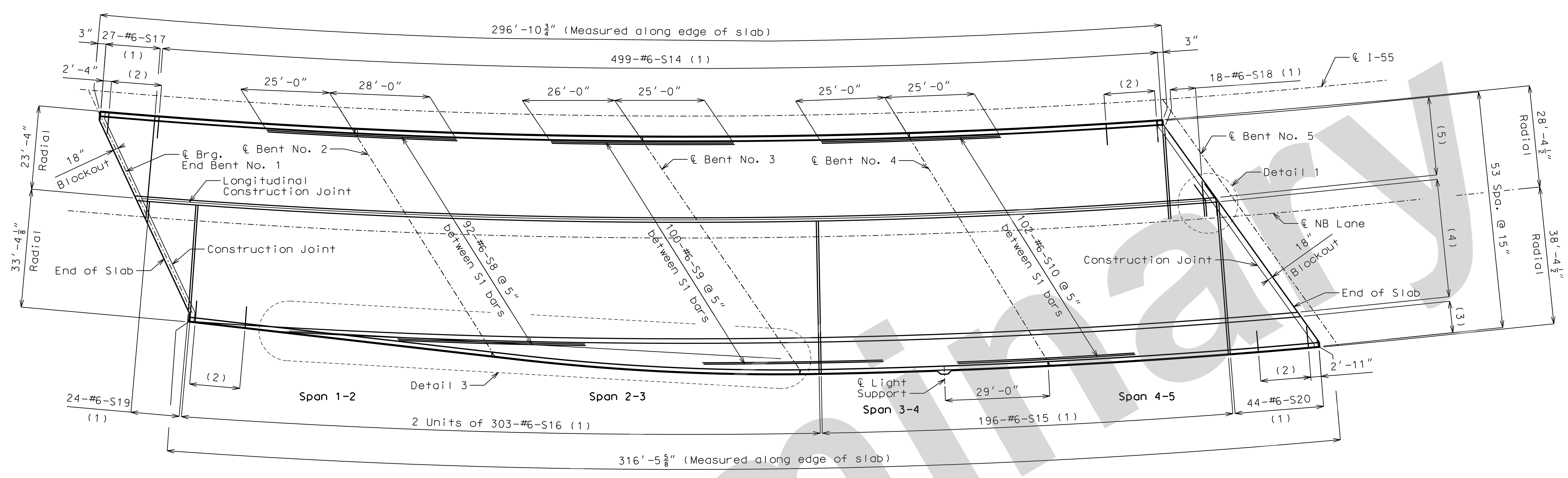
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

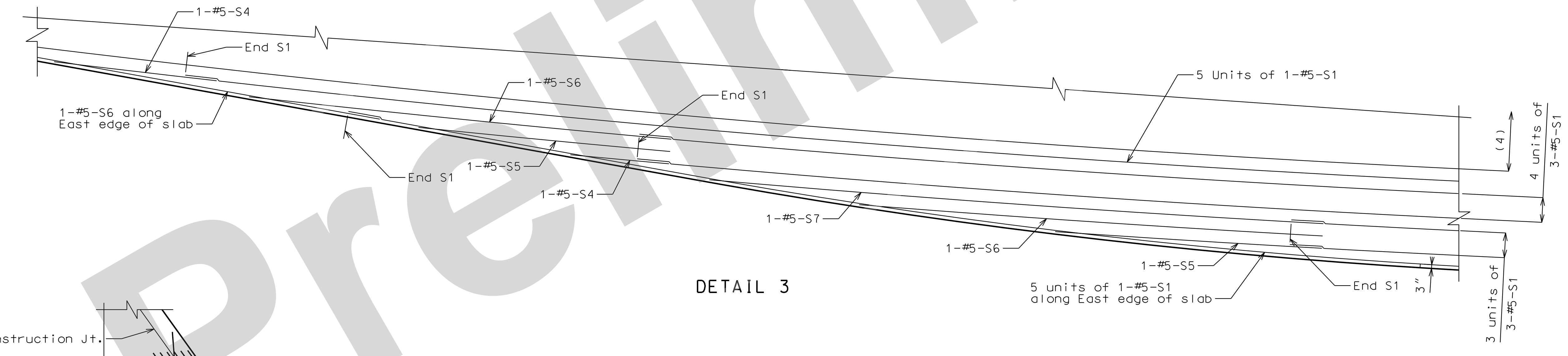
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JACOBS ENGINEERING GROUP ST. LOUIS, MISSOURI 63102-2121

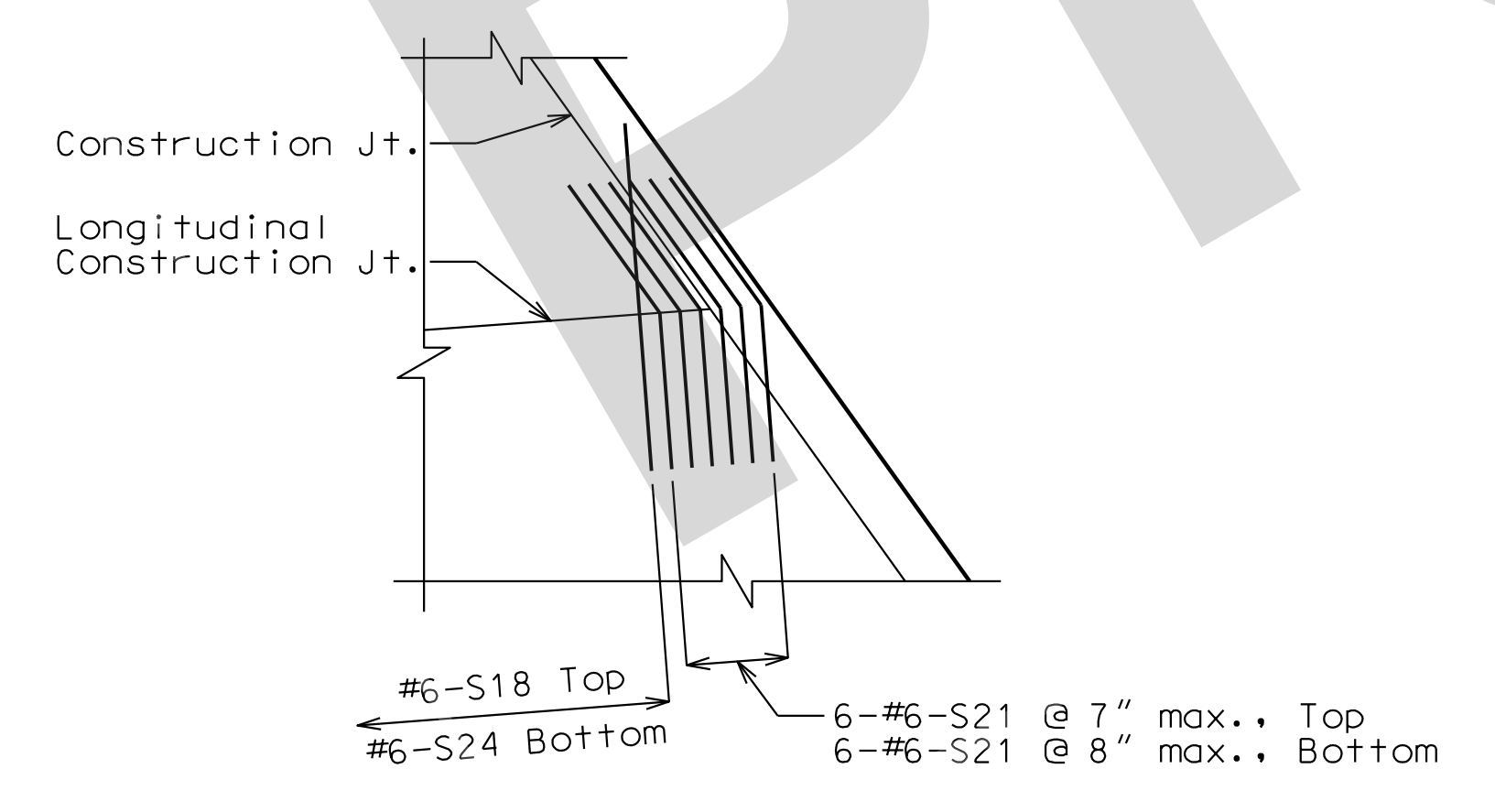
CERTIFICATE OF AUTHORITY #00704



PART PLAN SHOWING TOP SLAB REINFORCEMENT - UNIT 1



DETAIL 3



DETAIL 1

- (1) Spaced radially at 7" max.
- (2) 13-#6-S22, space between every other top bars at 14" spacing or bundle with every other top bar
- (3) See Detail 3 for reinforcing at transition area and East edge of slab.
- (4) 5 Units of 27-#5-S1 and 1 unit of 27-#5-S3
- (5) 5 Units of 19-#5-S1 and 1 unit of 19-#5-S2

Notes:

Longitudinal slab dimensions are measured horizontally.

For Section thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.

For location of slab drains, see Sheet No. 8.

For details of safety barrier curb, see Sheets No. 17 thru 21.

For details of expansion devices, see Sheets No. 9 & 10.

For slab construction joint details, see Sheet No. 14.

For minimum lap lengths for bar splices, see table on Sheet No. 1.

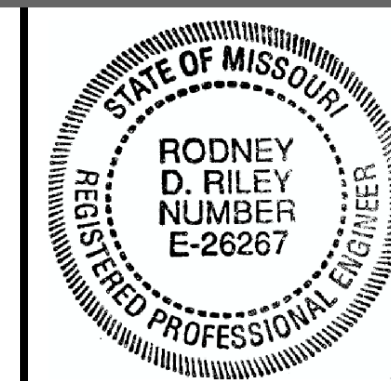
Work this sheet with Sheet No. 12.

For East Barrier Curb Transition details, see As-Built Plans Sheet 33 of 34.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 11 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 12

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

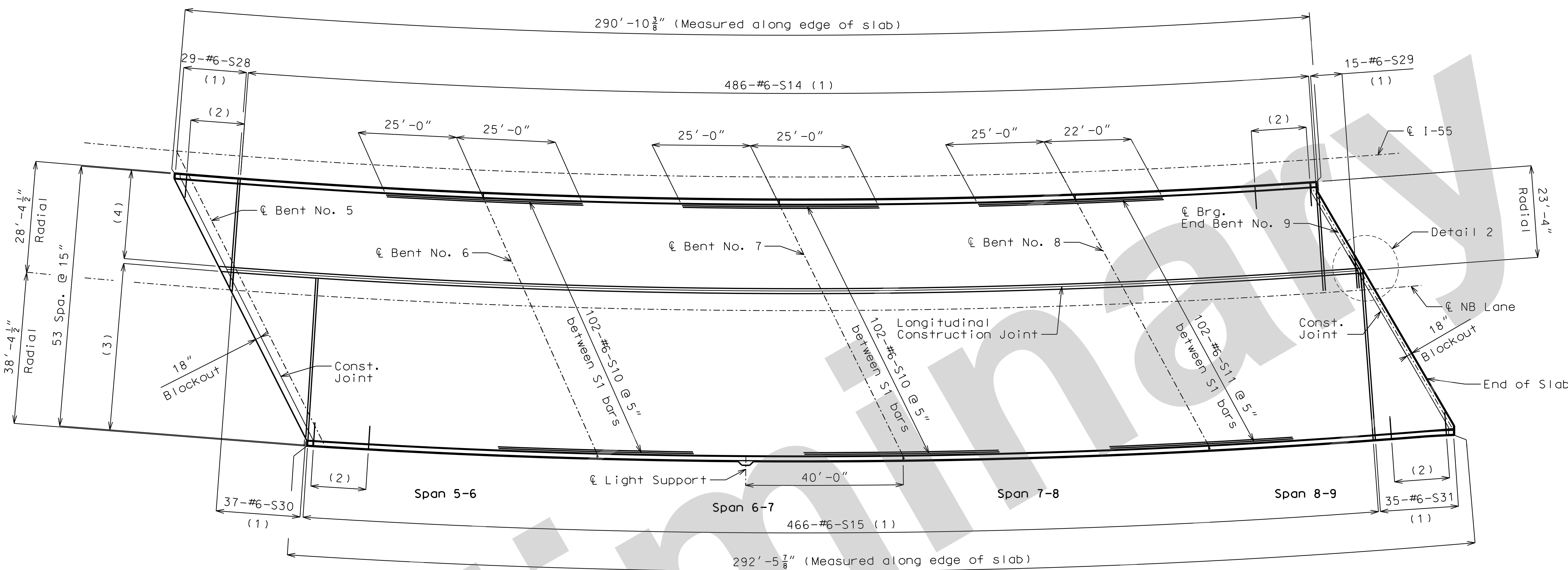
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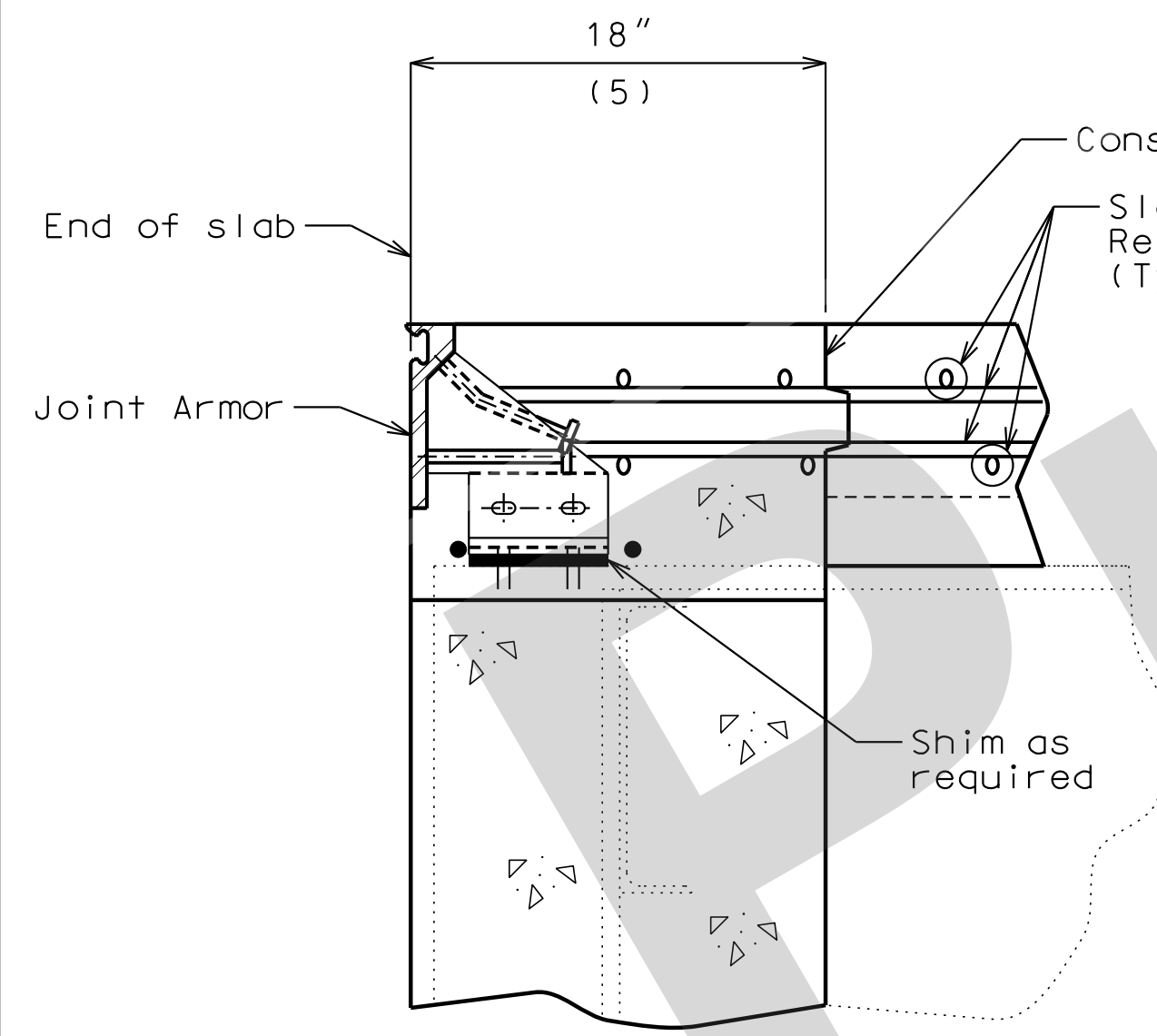
JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

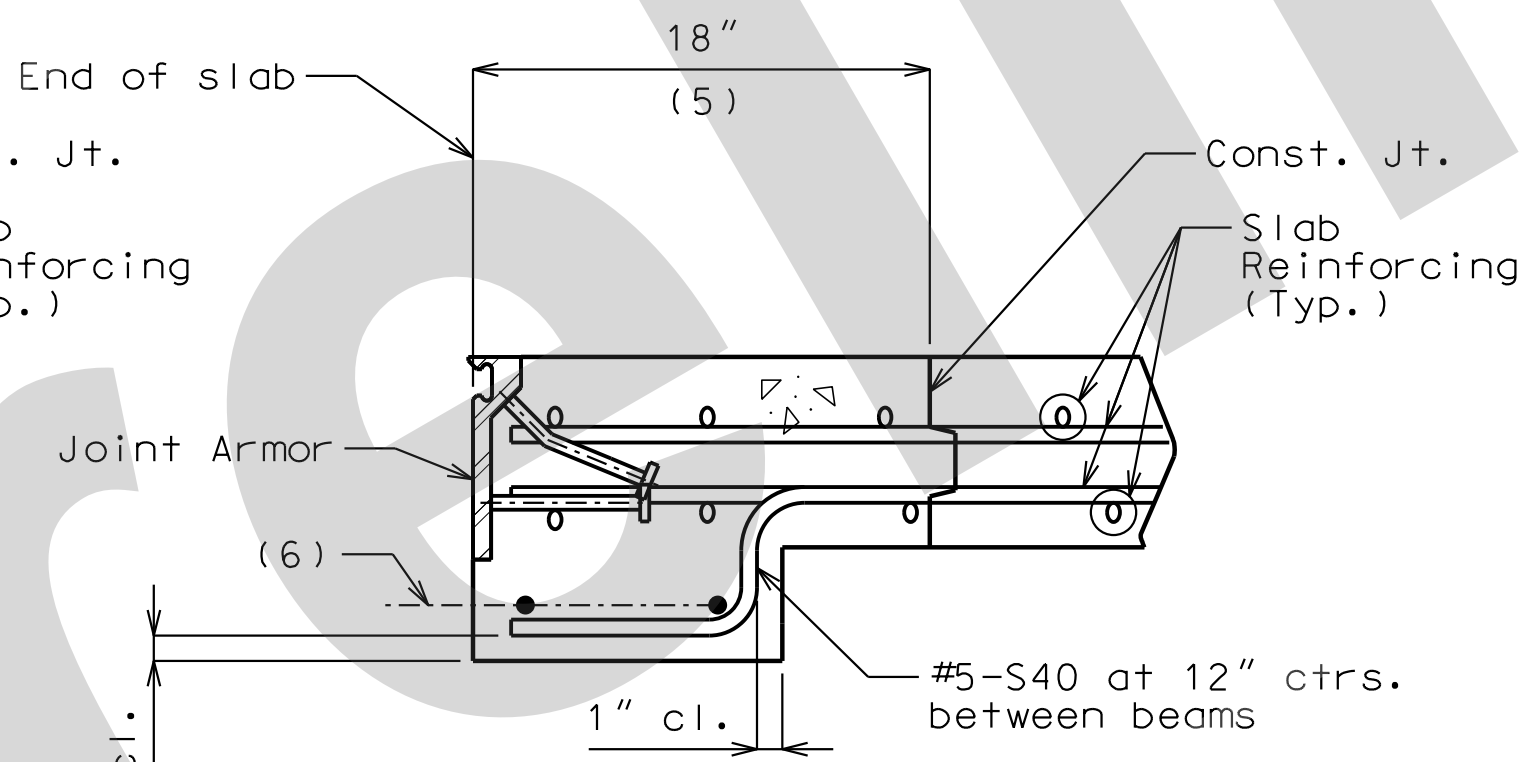
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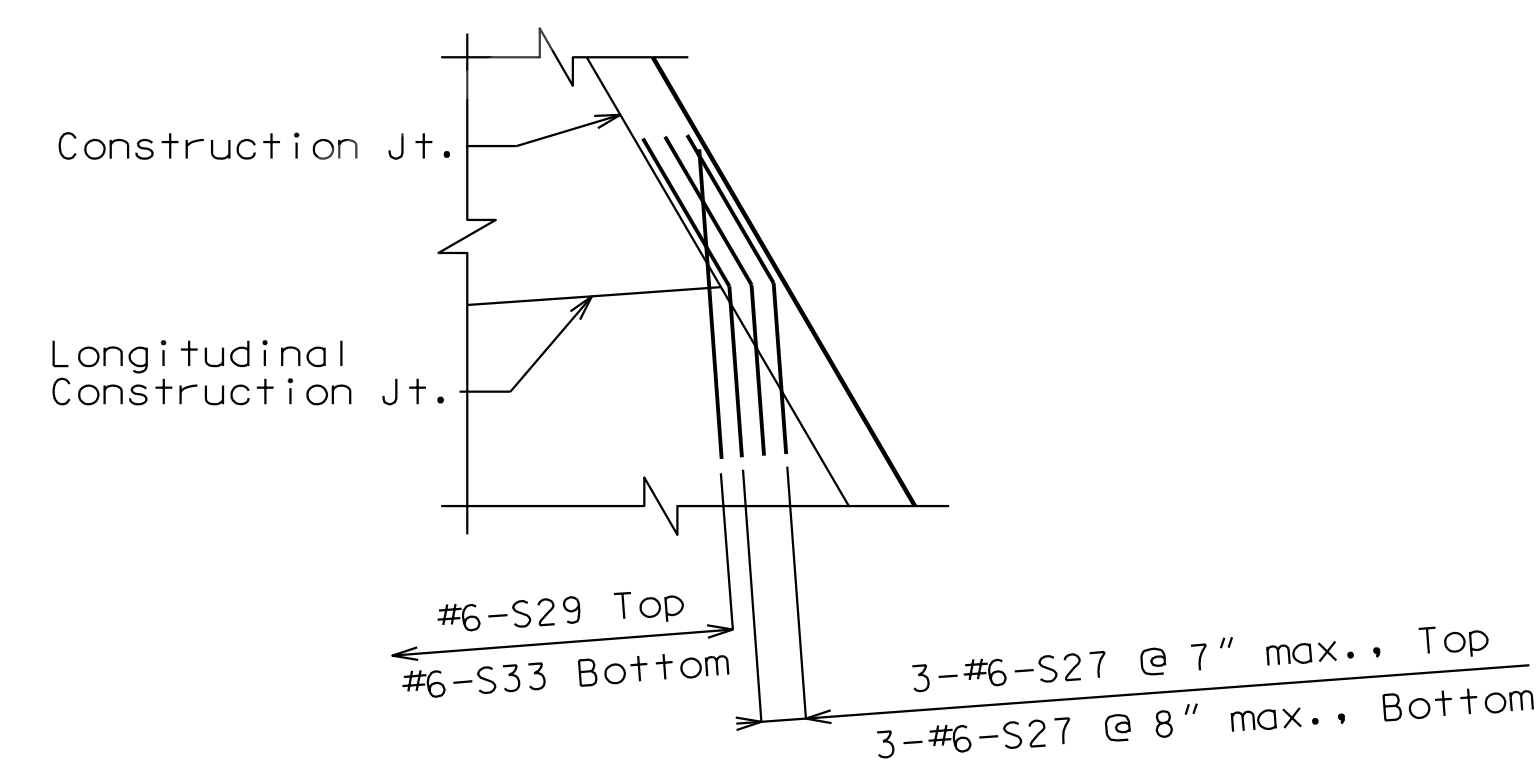
PART PLAN SHOWING TOP SLAB REINFORCEMENT - UNIT 2



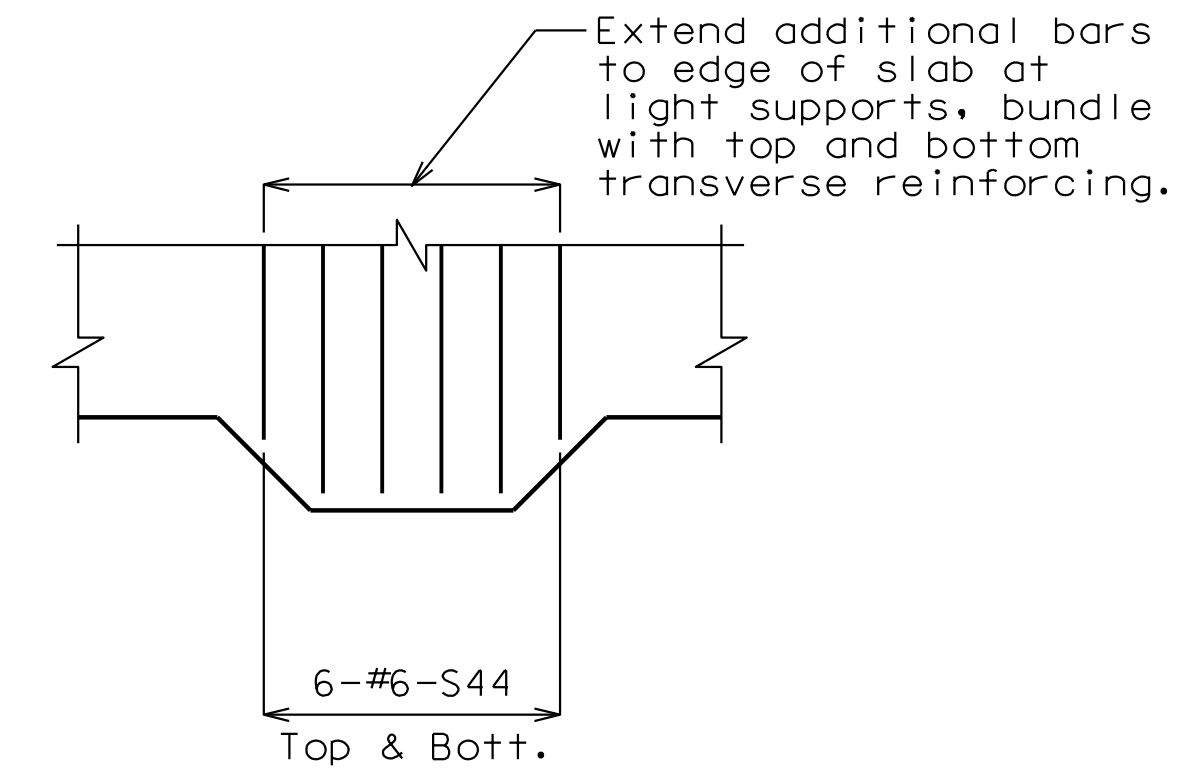
EXPANSION JOINT BLOCKOUT AT STRINGERS



EXPANSION JOINT BLOCKOUT BETWEEN STRINGERS



DETAIL 2



DETAIL AT LIGHT SUPPORTS

For additional light support details see barrier drawings

- (1) Spaced radially at 7" max.
- (2) 13-#6-S22, bundle with every other top bar at 14" spacing
- (3) 5 Units of 35-#5-S1 and 1 unit of 35-#5-S37
- (4) 5 Units of 19-#5-S1 and 1 unit of 19-#5-S36
- (5) Ultra-High Performance Concrete (UHPC), see Special Provisions
- (6) 2 units of 2-#6-S41 (End Bent 1)
2 units of 2-#6-S42 (Near Bent 5 each side)
2 units of 2-#6-S43 (End Bent 9)
Bars placed parallel to end of slab.

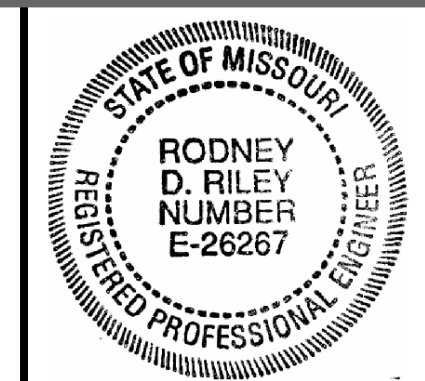
Notes:

- Longitudinal slab dimensions are measured horizontally.
- For Section thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
- For location of slab drains, see Sheet No. 8.
- For details of safety barrier curb, see Sheets No. 17 thru 21.
- For details of expansion devices, see Sheets No. 9 & 10.
- For slab construction joint details, see Sheet No. 14.
- For minimum lap lengths for bar splices, see table on Sheet No. 1.
- Work this sheet with Sheet No. 11.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 14

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

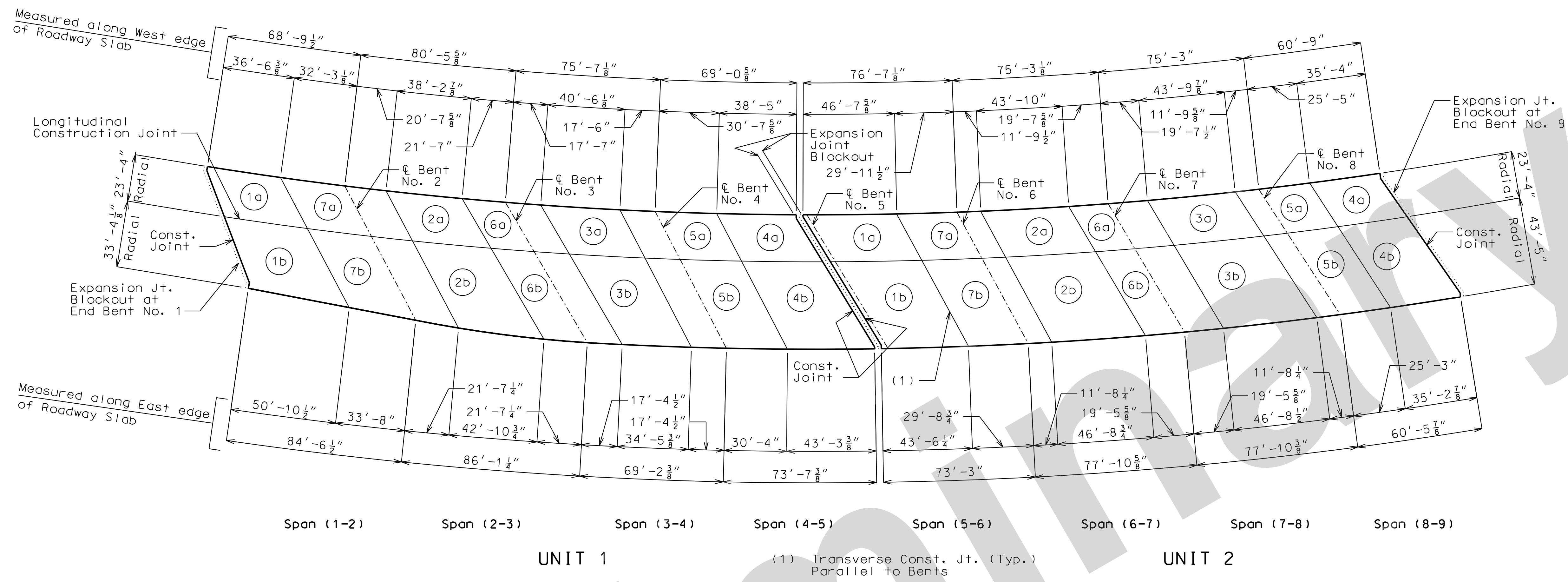
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

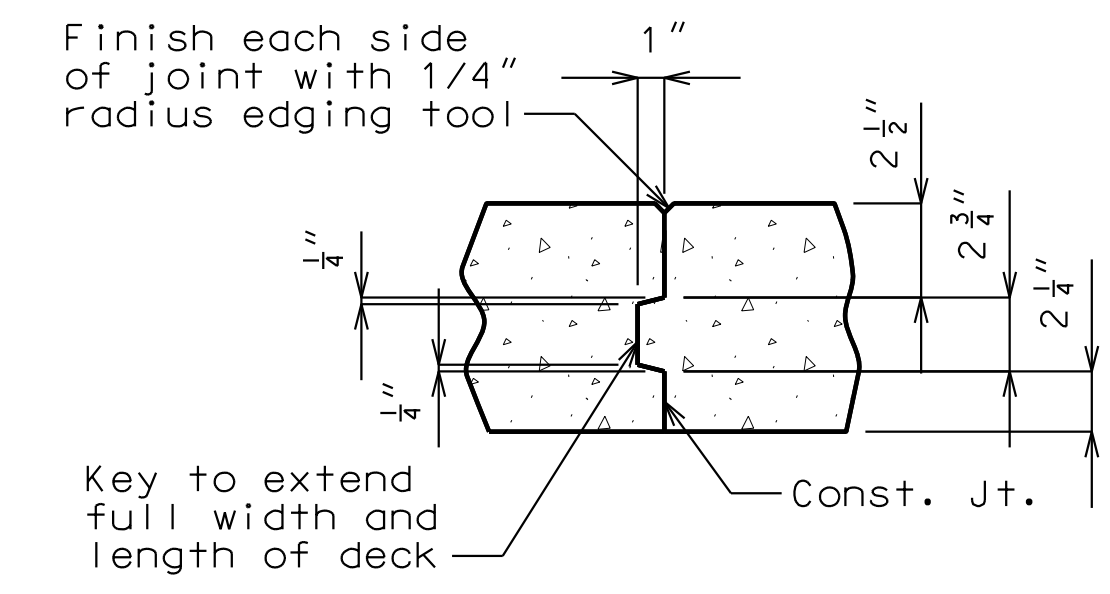
REVISIONS

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



	Sequence of Pours Unit 1							Min. Rate of Pour Cu. Yds. / Hr.					
	Direction							With Retarder		Without Retarder			
	1	2	3	4	5	6	7	a	b	a	b		
Basic Sequence	Either Direction							25	25	25	25		
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.													
Alternate A Pours	1	7 + 2	6 + 3	5 + 4	End to 7		1 to 6	2 to 5	3 to End	25	26	25	44
Alternate B Pours	1 + 7 + 2		6 + 3		5 + 4		2 to 5		3 to End	25	26	25	44
Alternate C Pours	1 + 7 + 2		6 + 3 + 5 + 4		End to 6		2 to End			25	26	25	44
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4							End to End		25	26	25	44

	Sequence of Pours Unit 2							Min. Rate of Pour Cu. Yds. / Hr.					
	Direction							With Retarder		Without Retarder			
	1	2	3	4	5	6	7	a	b	a	b		
Basic Sequence	Either Direction							25	25	25	25		
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.													
Alternate A Pours	1	7 + 2	6 + 3	5 + 4	End to 7		1 to 6	2 to 5	3 to End	25	25	25	40
Alternate B Pours	1 + 7 + 2		6 + 3		5 + 4		2 to 5		3 to End	25	25	25	40
Alternate C Pours	1 + 7 + 2		6 + 3 + 5 + 4		End to 6		2 to End			25	25	25	40
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4							End to End		25	25	25	40



SLAB CONSTRUCTION JOINT

Notes:

For General Notes, see Sheets No. 1 and 2.

The contractor shall pour and satisfactorily finish the slab pour at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

The longitudinal construction joints may be omitted with the approval of the engineer. When the longitudinal construction joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.7.

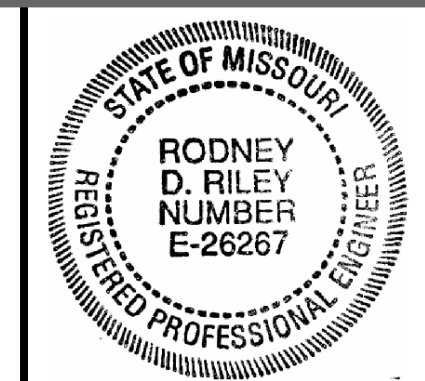
For Right Barrier Curb Transition details see As-Built Plans Sheet 33 of 34.

SLAB POURING SEQUENCE

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 16

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

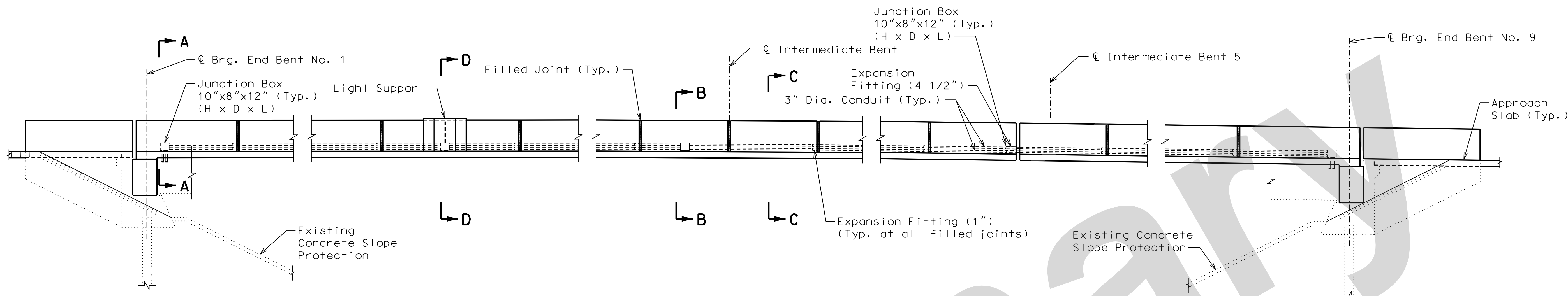
ModOT

JACOBS

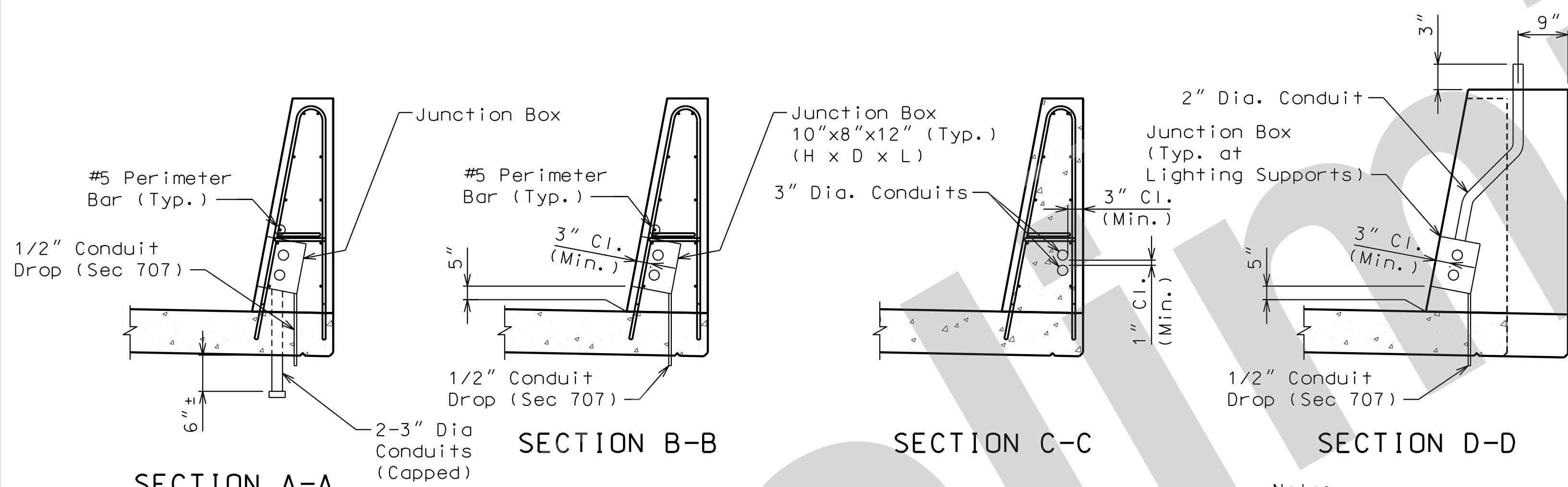
JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

REV.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

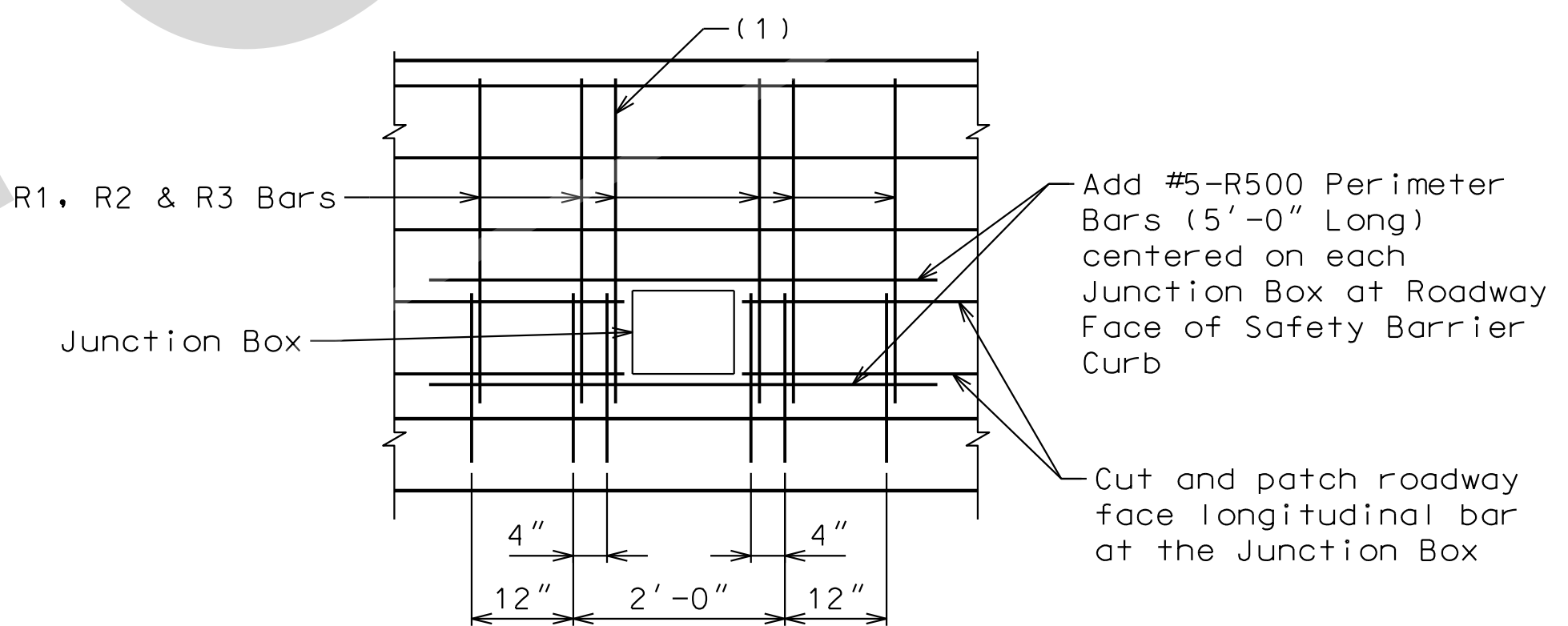


PART ELEVATION OF RIGHT BARRIER CURB SHOWING LOCATION OF CONDUIT



(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers and shift bars to clear Junction Boxes.

Note: Light Support reinforcing not shown, see Sheet 17



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements.

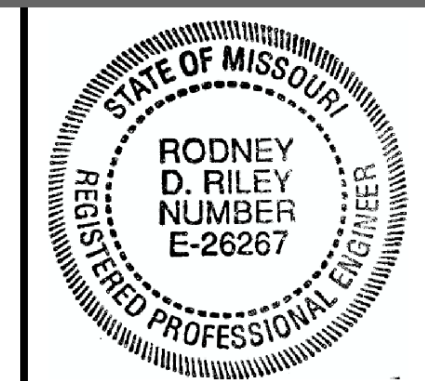
The Bill of Reinforcing Steel includes 10 extra R1, R2 and R3 for placement at Junction Boxes, 2 per Junction Box.

DETAILS OF CONDUIT SYSTEM

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 19

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MODOT

JACOBS

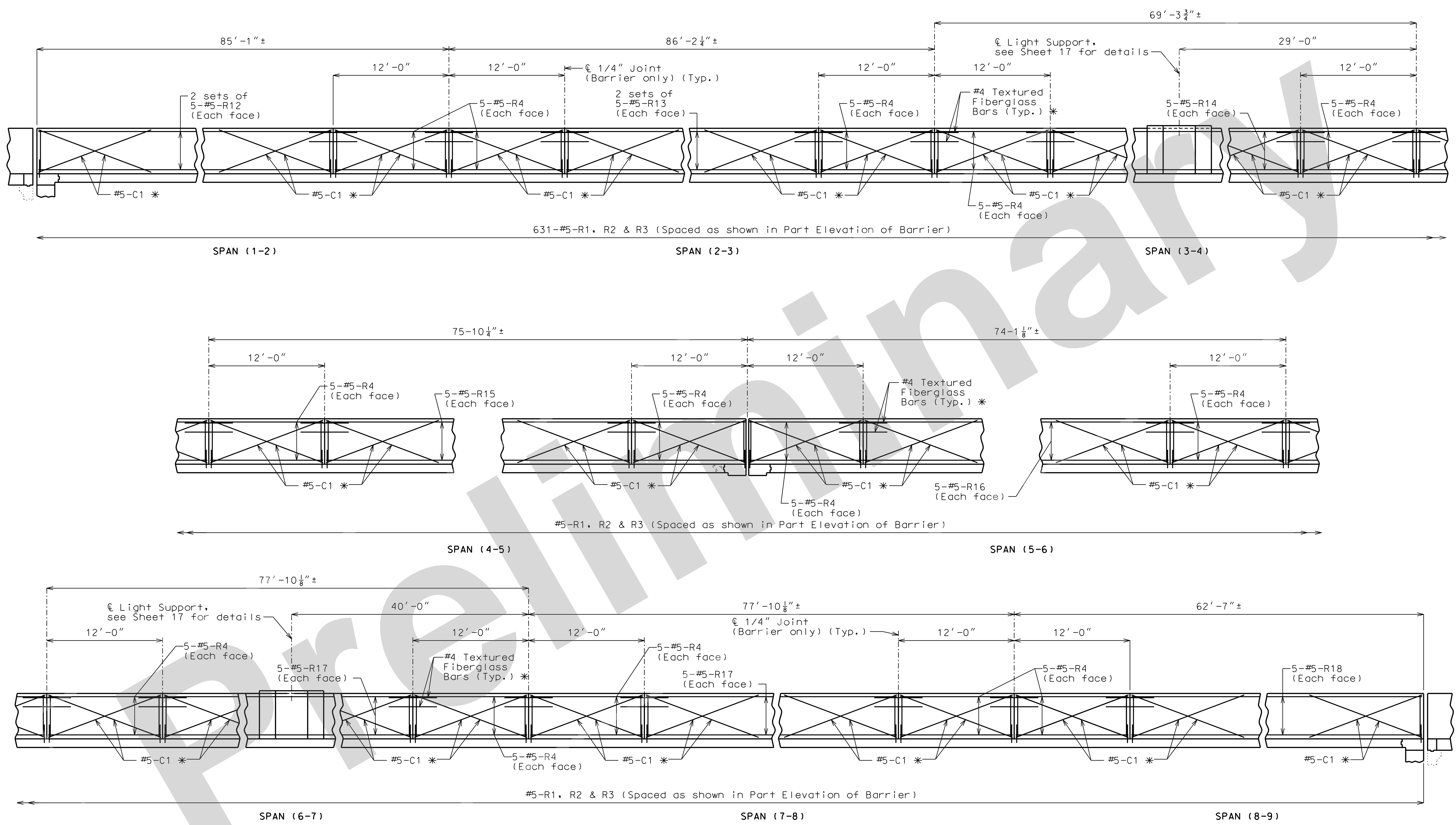
JACOBS ENGINEERING GROUP

901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY

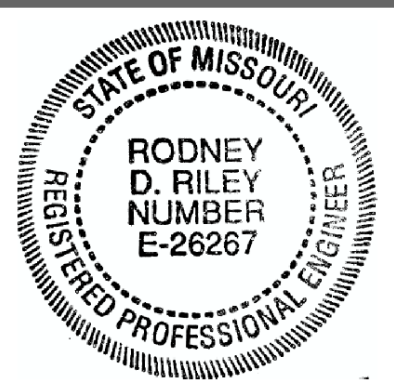
#00704



ELEVATION OF RIGHT BARRIER CURB

Notes:
 Horizontal dimensions are measured from along outside face of barrier.
 Work this sheet with Sheets No. 17 and 18.
 Conduits not shown for clarity.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 20

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

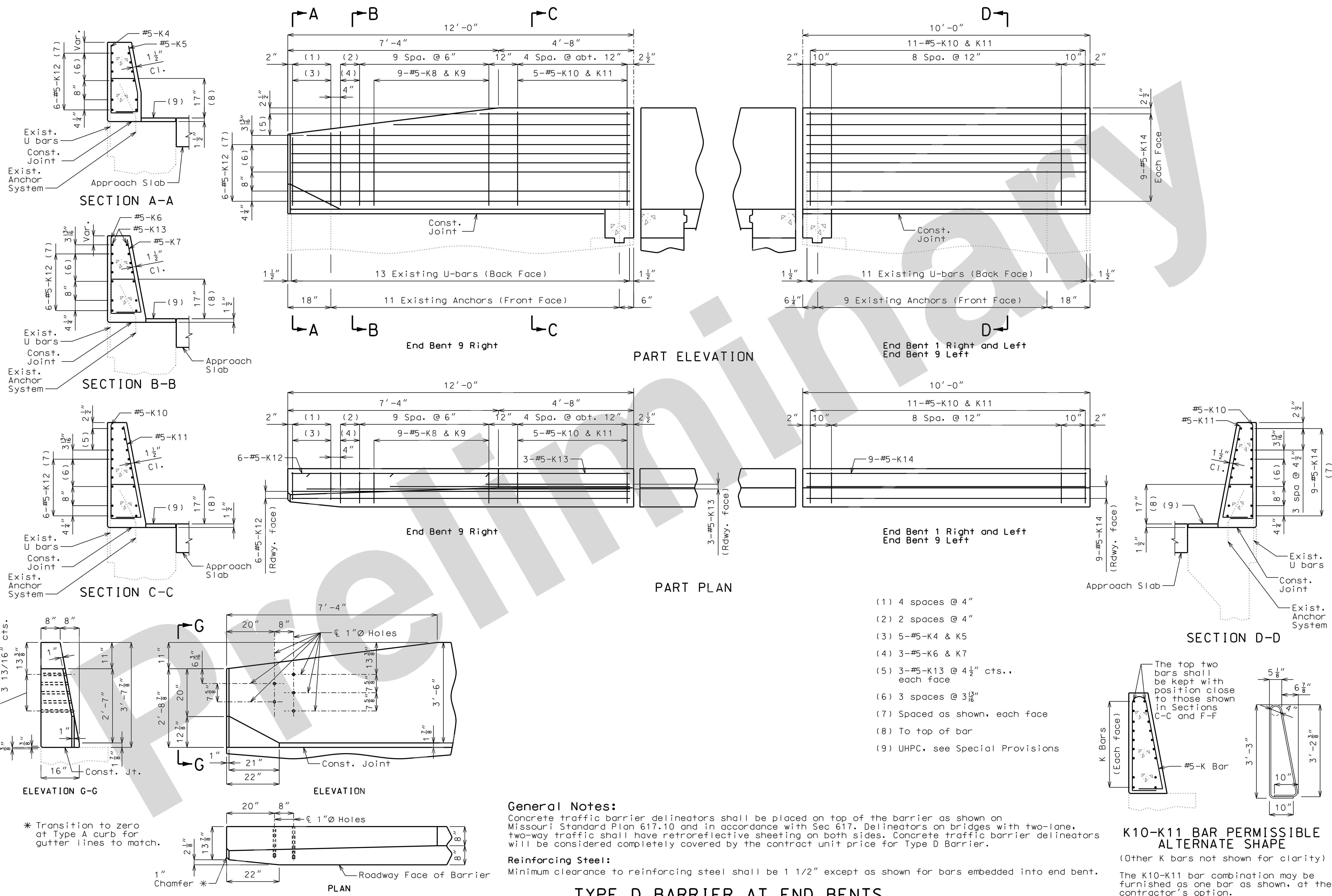
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

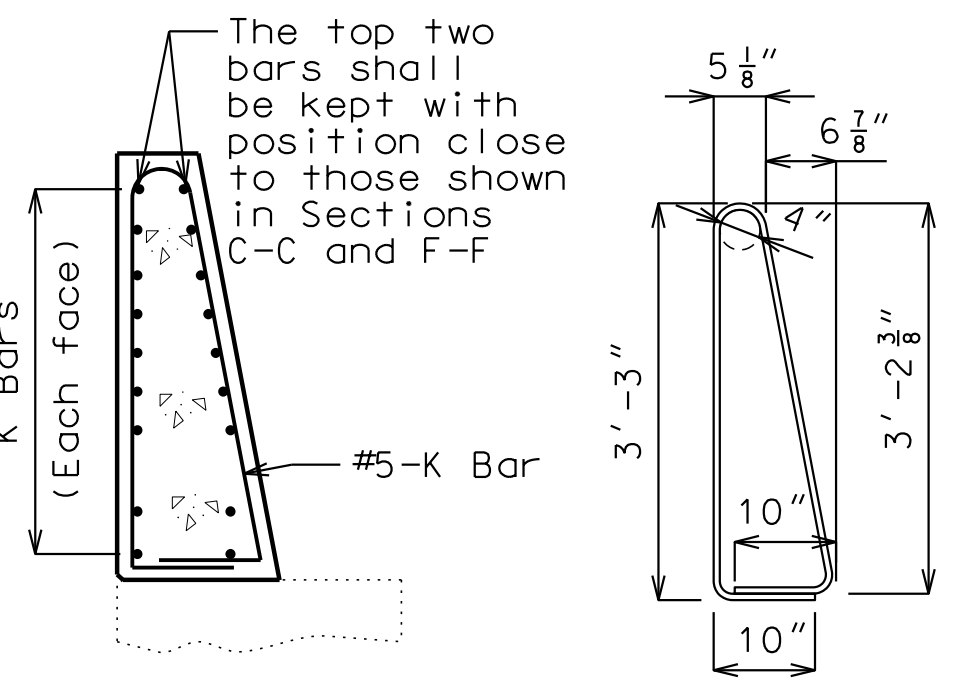
901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



- (1) 4 spaces @ 4"
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 @ 4 1/2" cts., each face
- (6) 3 spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) To top of bar
- (9) UHPC, see Special Provisions



General Notes:
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

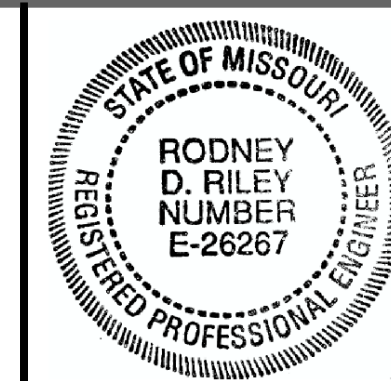
TYPE D BARRIER AT END BENTS

DETAILS OF GUARD RAIL ATTACHMENT

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 21

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

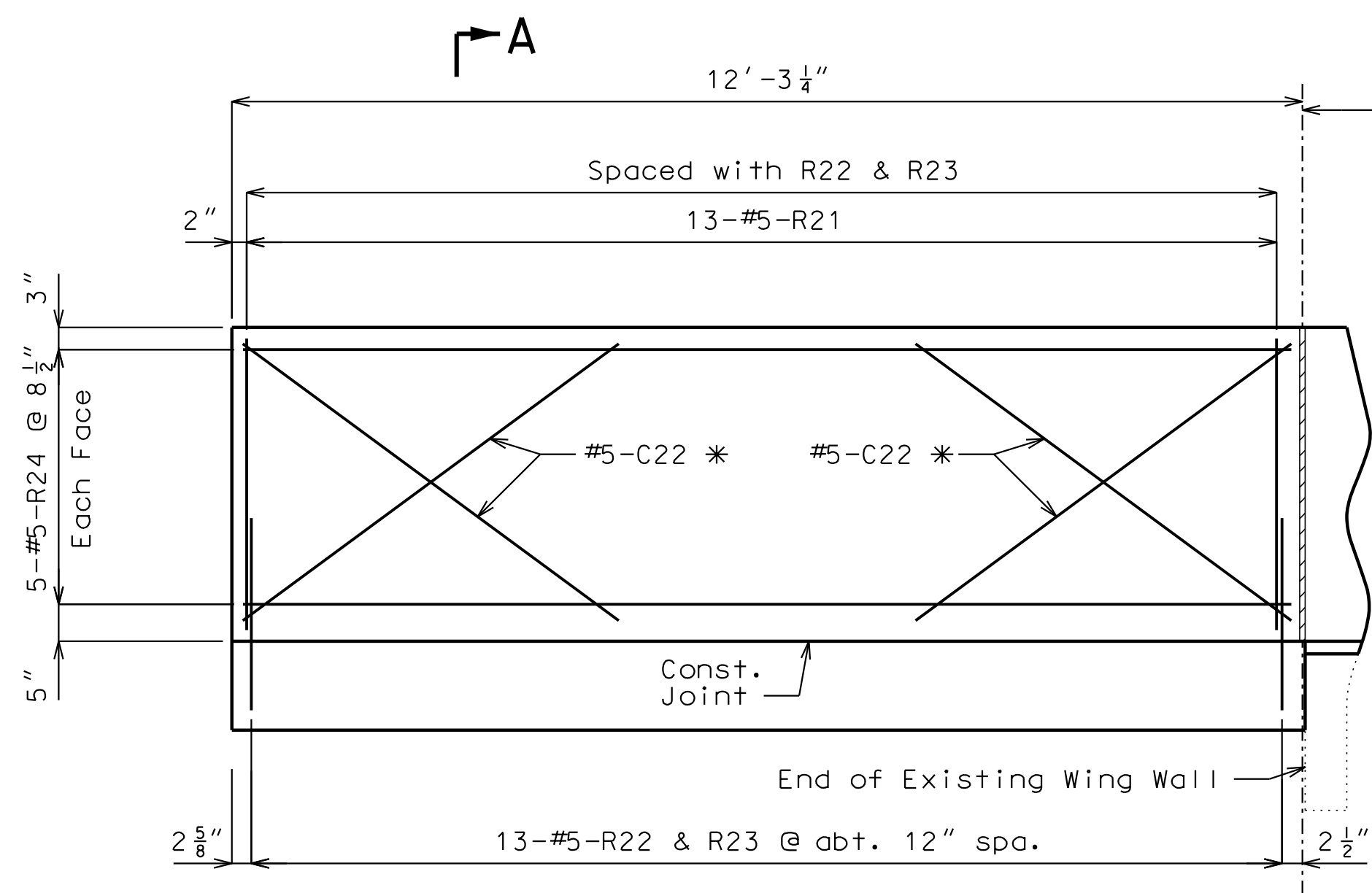
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

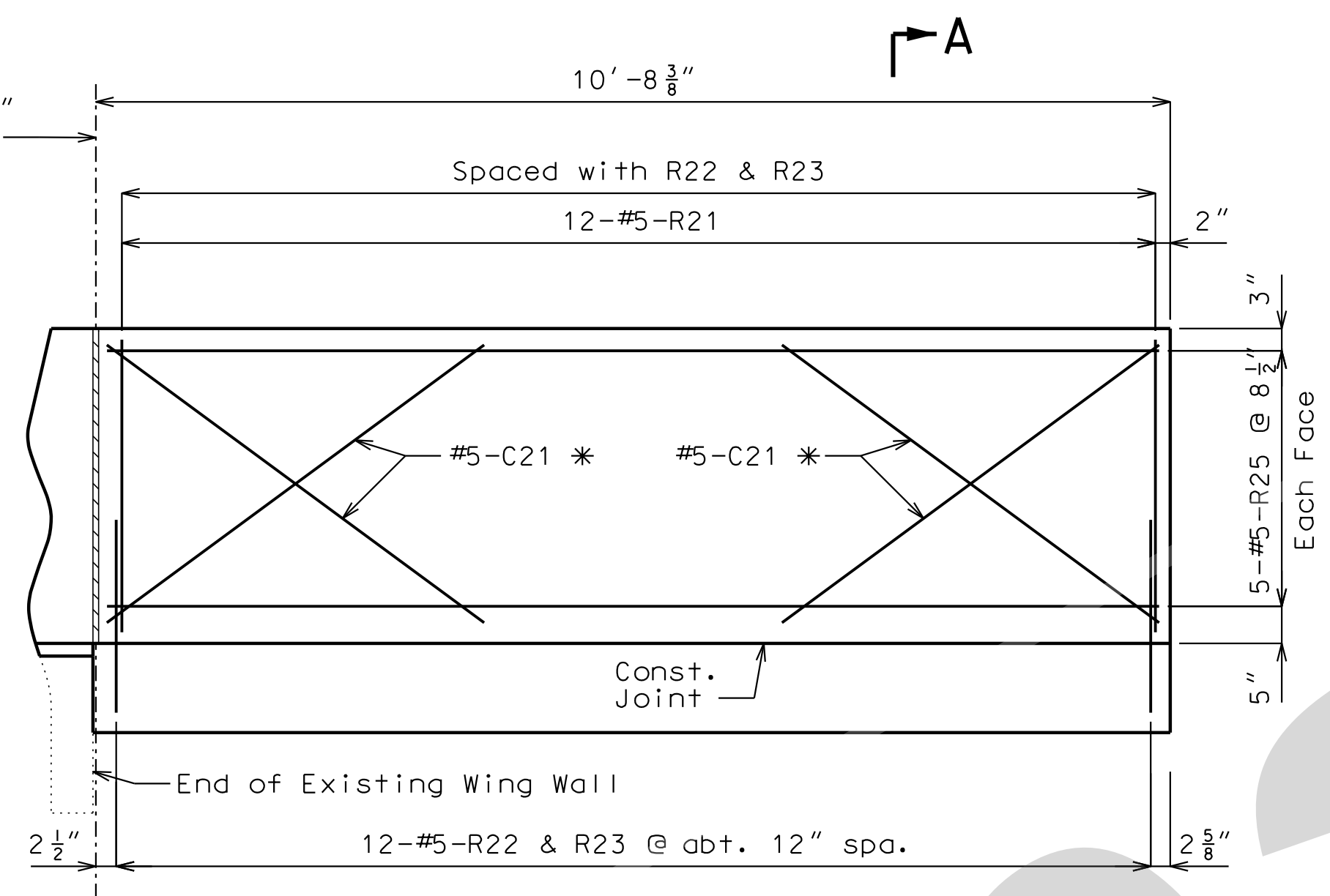
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

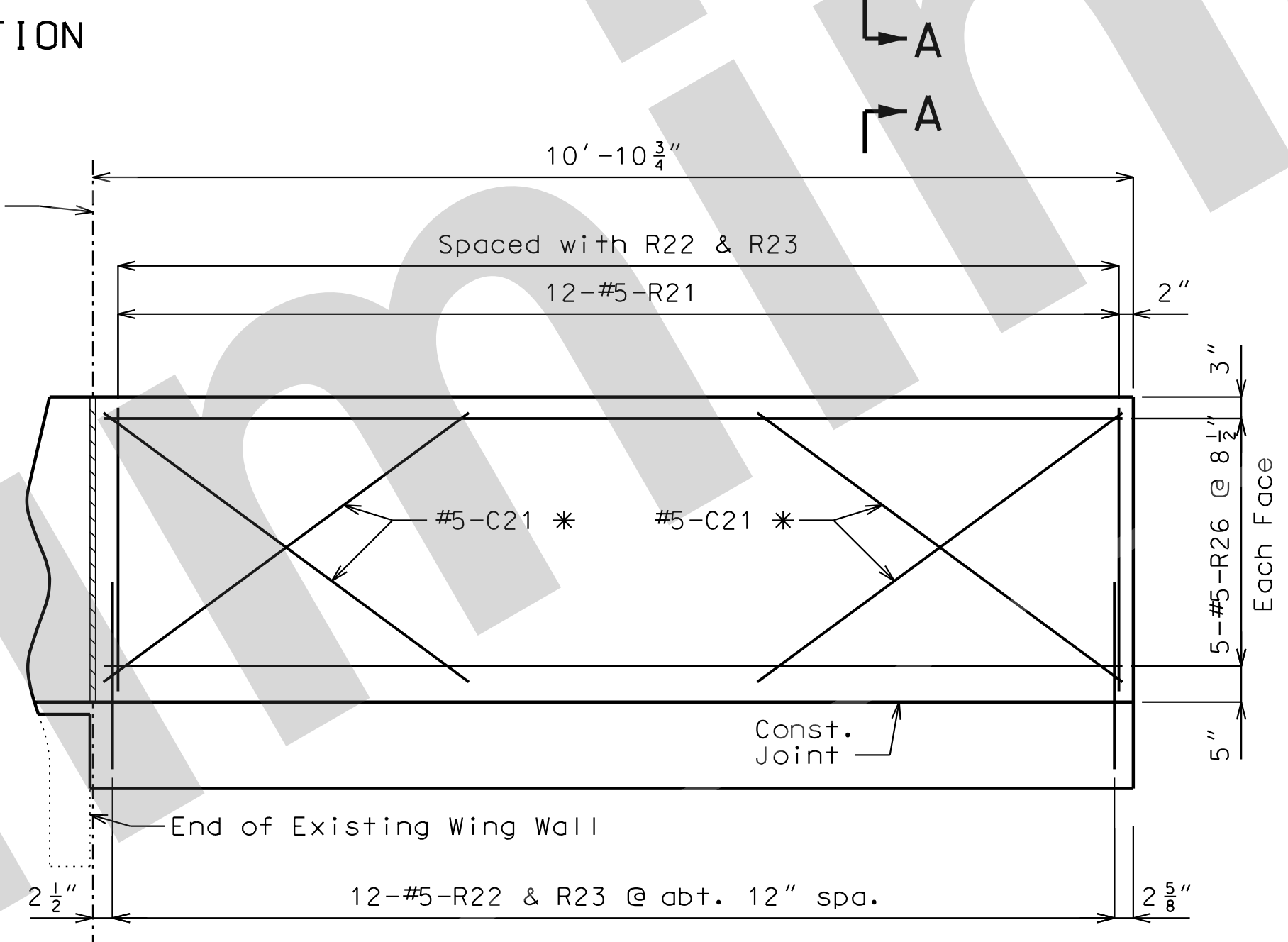


SOUTH APPROACH LEFT WALL



NORTH APPROACH LEFT WALL

ELEVATION



SOUTH APPROACH RIGHT WALL

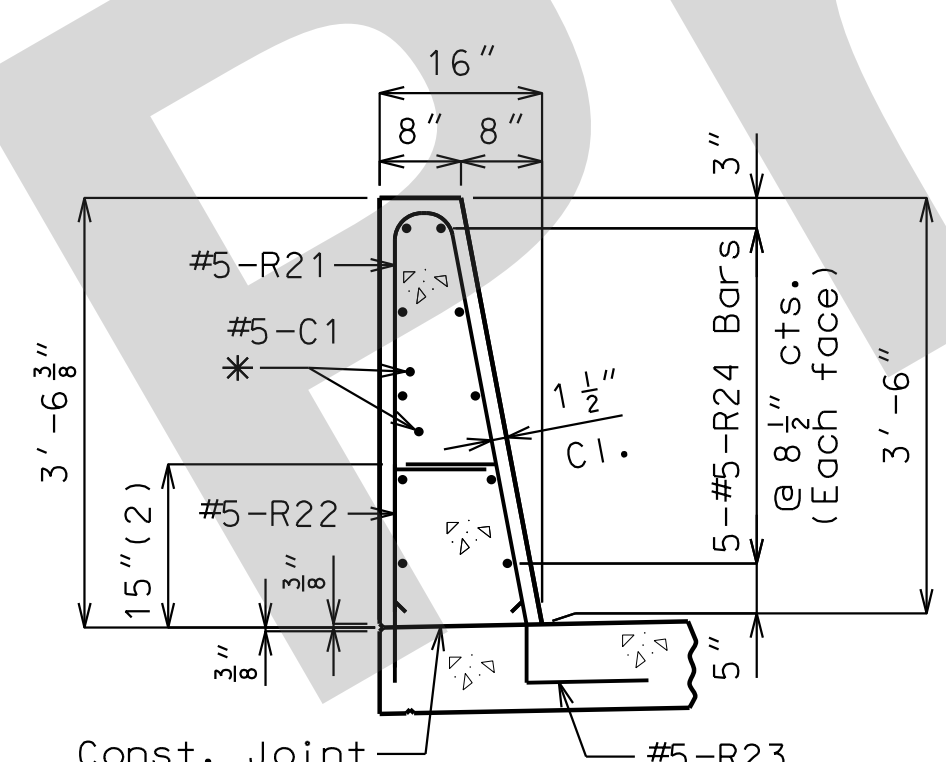
ELEVATION

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2\"/>



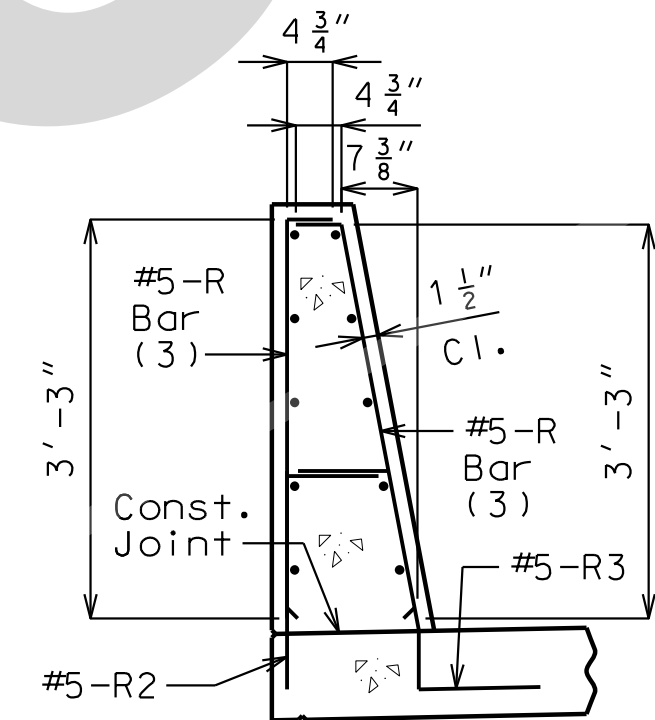
SECTION A-A

Use a minimum lap of 3'-1\"/>

The cross-sectional area above the slab is 3.52 square feet.

(2) To top of bar

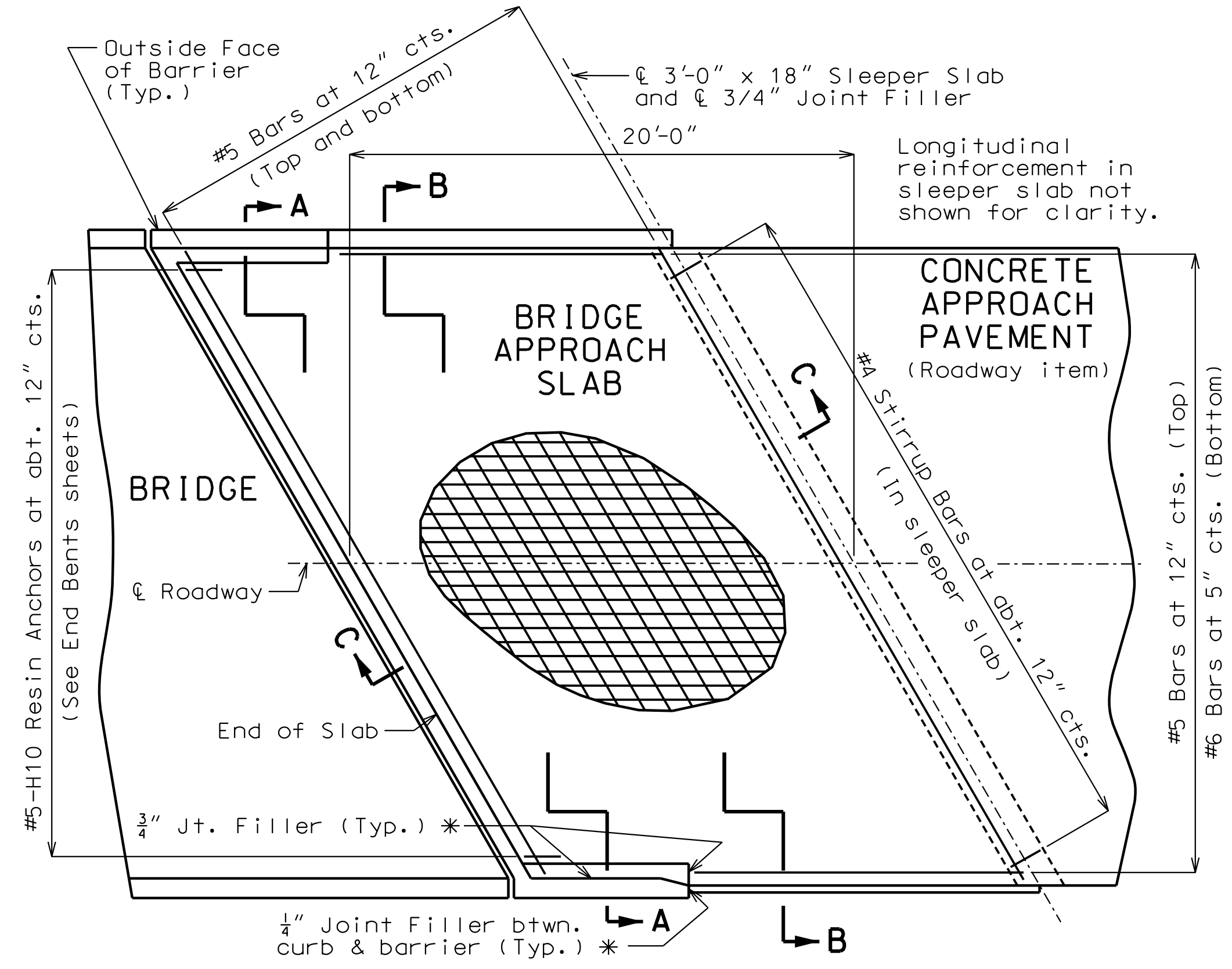
* Slip-formed option only



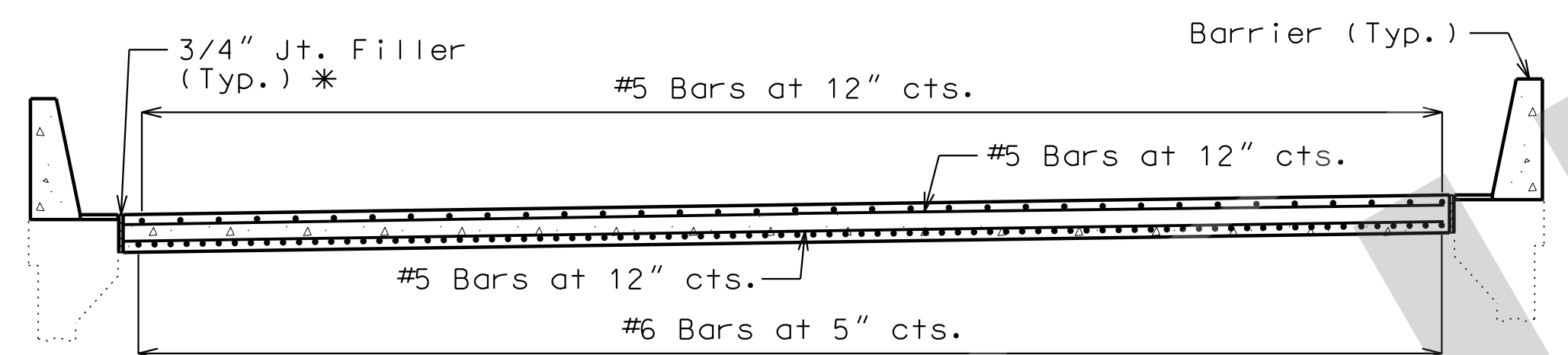
R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

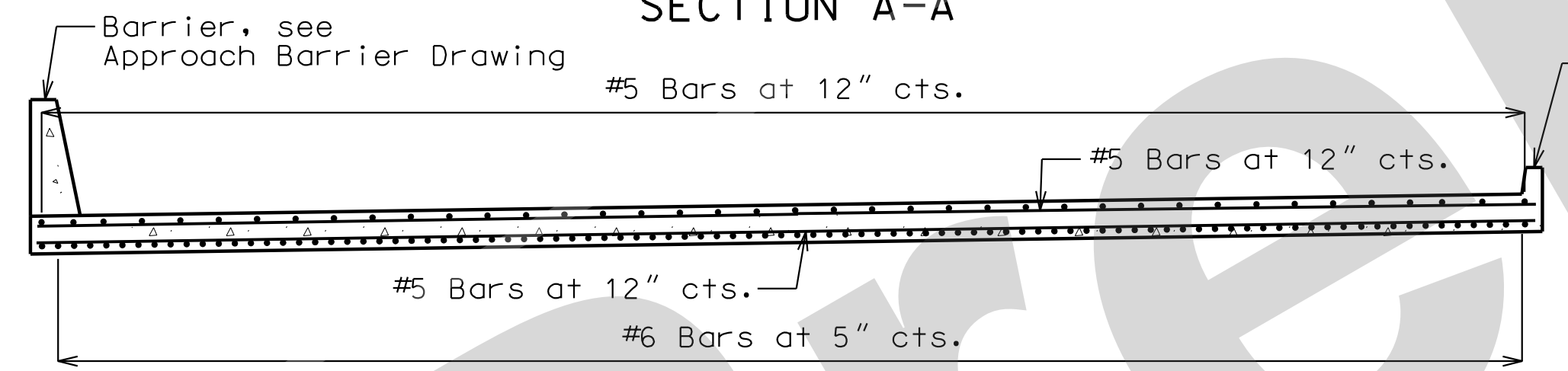
TYPE D BARRIER AT APPROACH



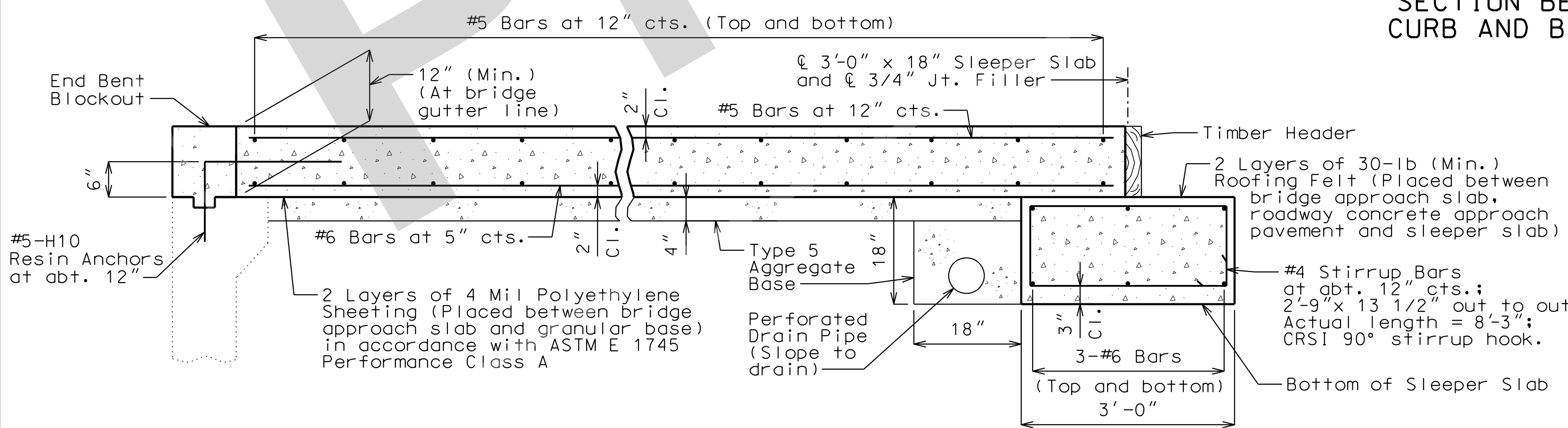
PART PLAN SHOWING REINFORCEMENT



SECTION A-A

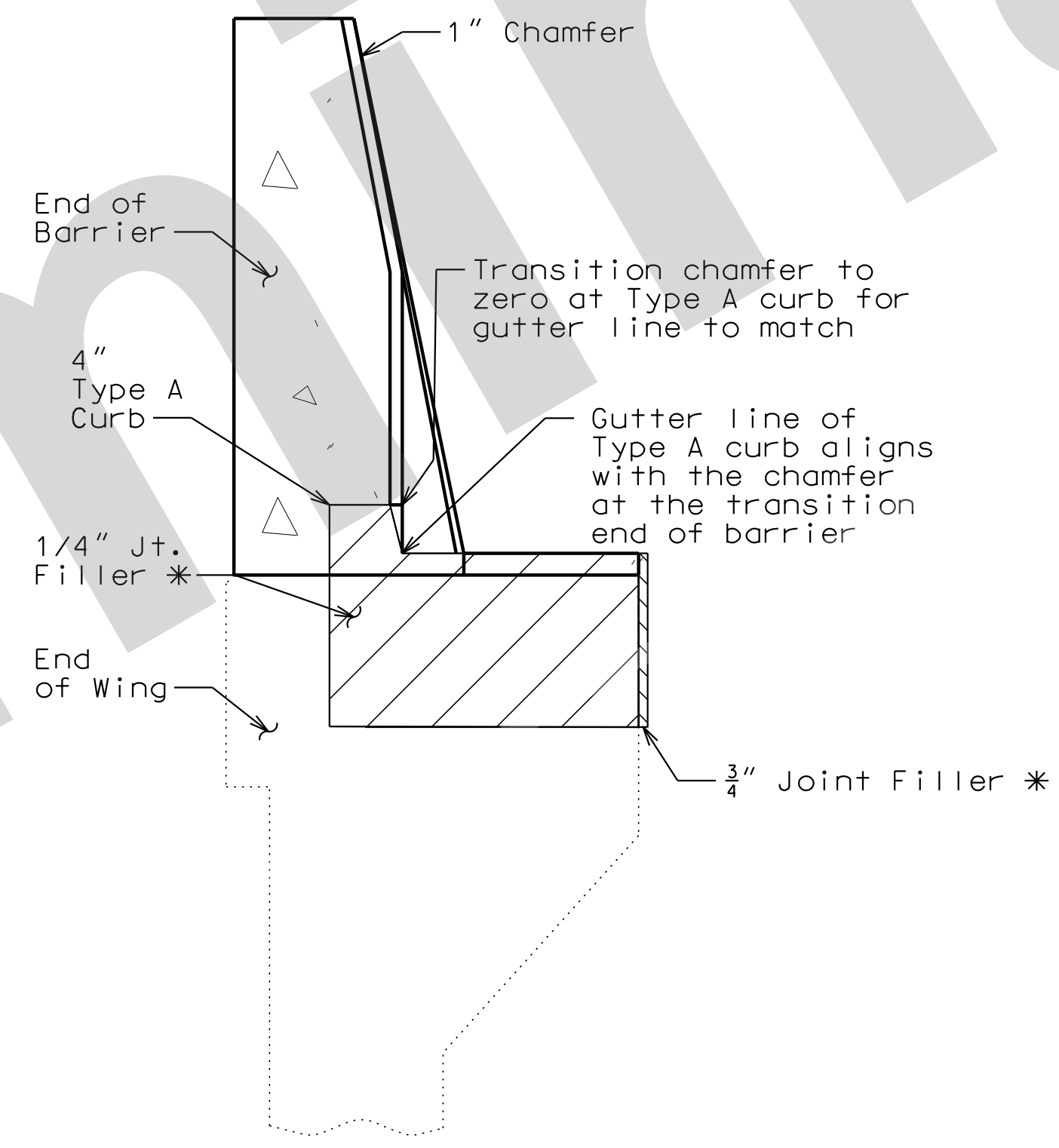
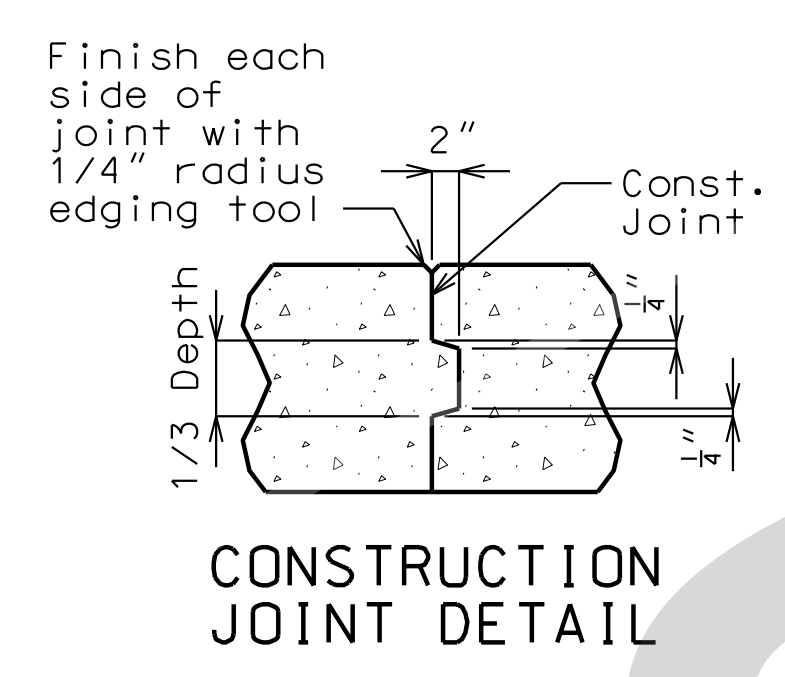
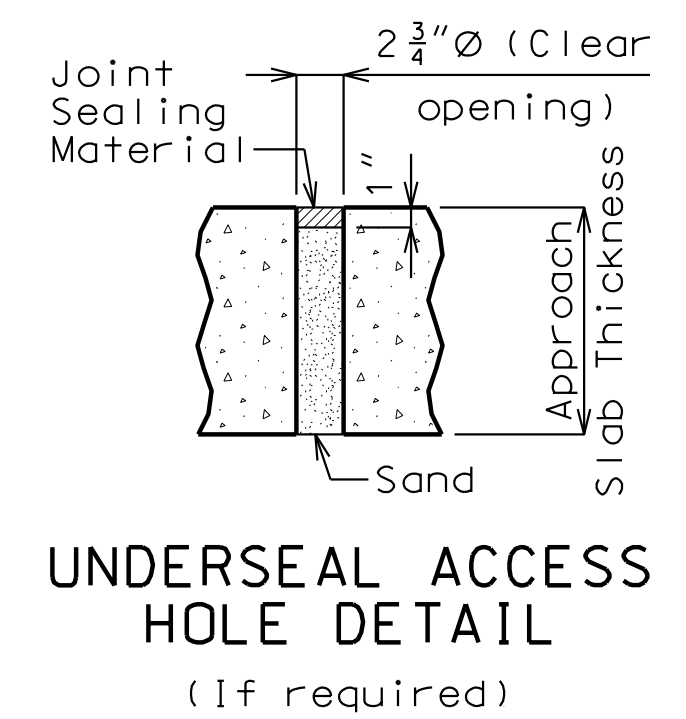


SECTION B-B

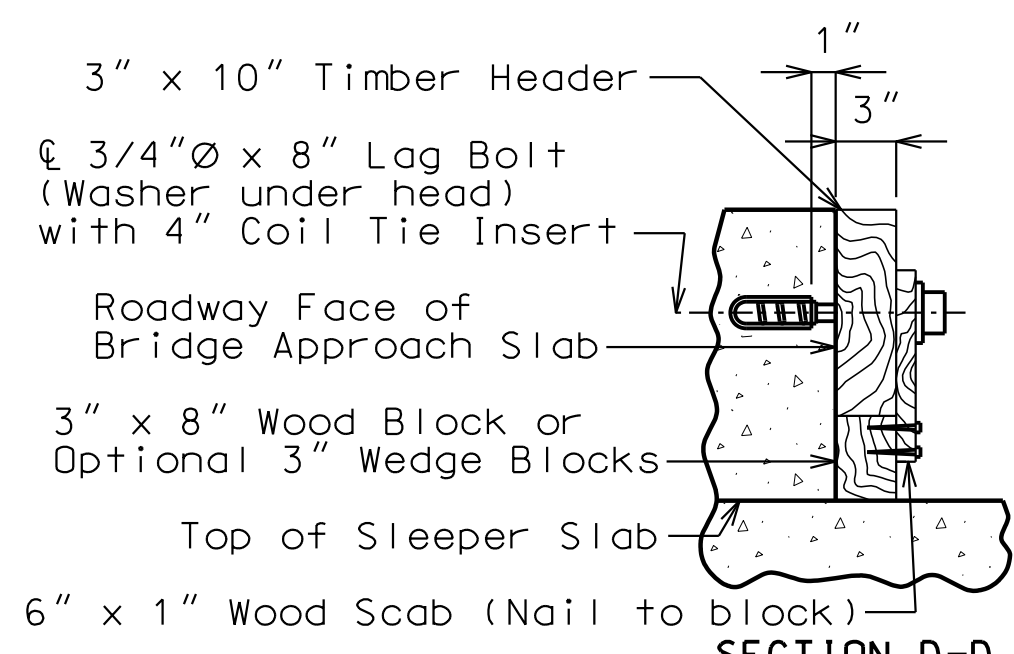


SECTION C-C

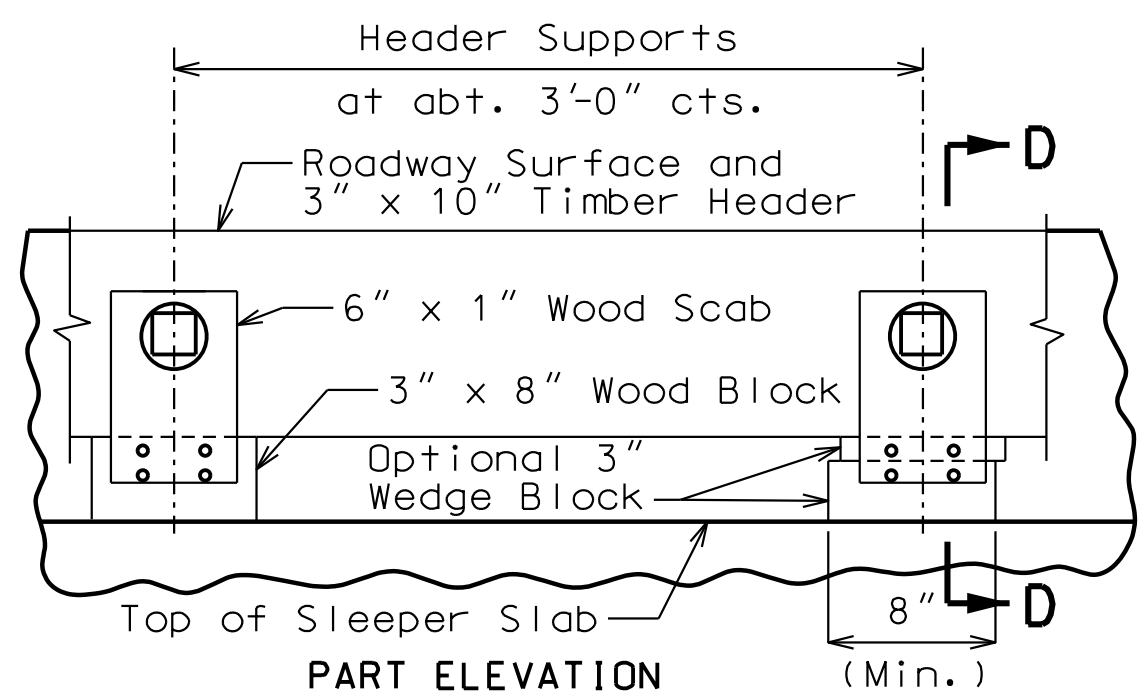
BRIDGE APPROACH SLAB (MAJOR)



SECTION BETWEEN CURB AND BARRIER



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER



General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

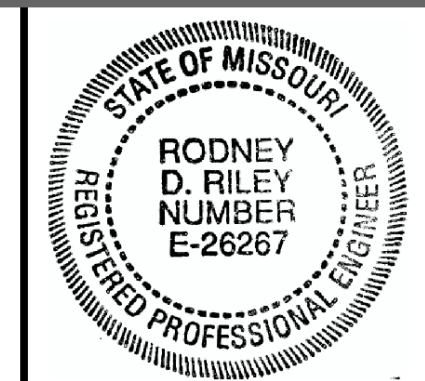
* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For details of barrier on bridge approach slab, see Sheet No. 21.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 22 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 22

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10852

DESCRIPTION

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

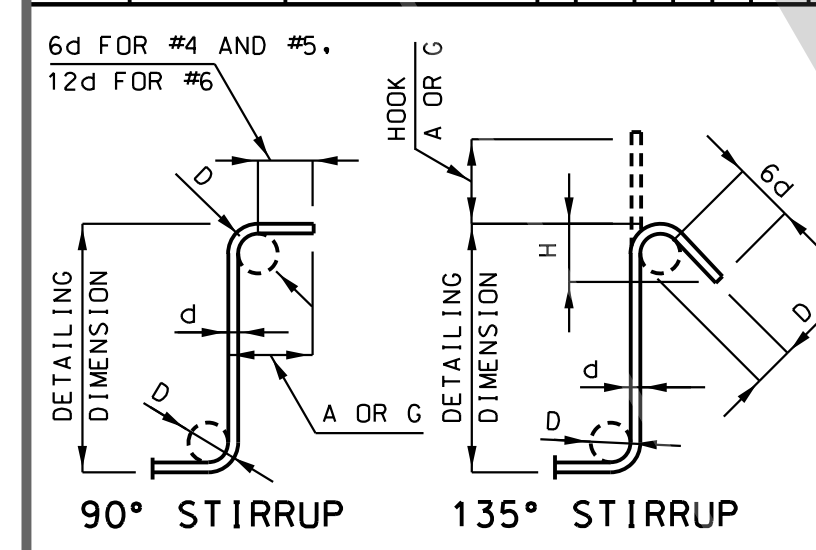
105 WEST CAPITAL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

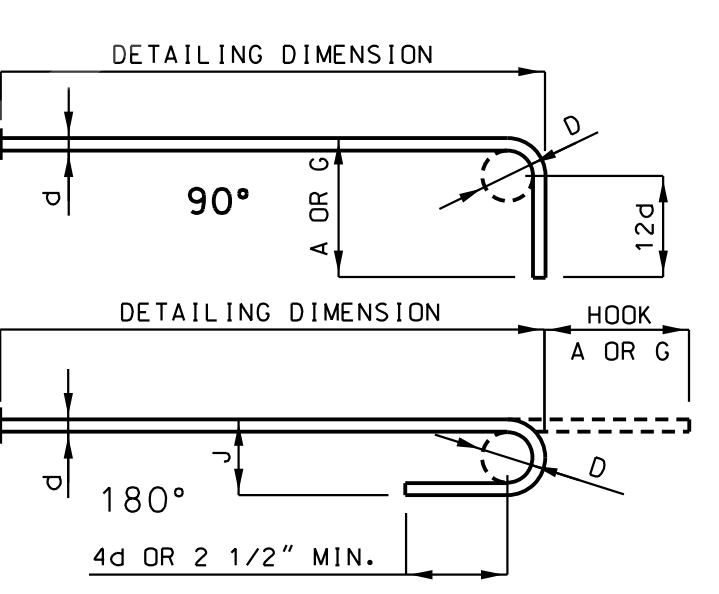
BILL OF REINFORCING STEEL

NO. REO'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT							
								B	C	D	E	F	H	K										
SIZE	MARK							FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	LBS.				
		END BENT 1																						
8	5 H1	DIAPHRAGM	E	20				32	4.000							32	4	32	4	270				
16	5 H2	DIAPHRAGM	E	20				7	0.000							7	0	7	0	117				
12	5 H3	DIAPHRAGM	E	20				9	6.000							9	6	9	6	119				
24	5 H4	DIAPHRAGM	E	20				6	8.000							6	8	6	8	167				
4	5 H5	DIAPHRAGM	E	19				1	11.000	1	11.000					3	10	3	8	15				
4	5 H6	DIAPHRAGM	E	21				1	10.875	4	8.000					6	7	6	3	26				
4	5 H7	DIAPHRAGM	E	21				1	3.875	3	6.000				1	1.750	0	8.000	4	10	4	6	19	
4	5 H8	DIAPHRAGM	E	21				1	3.875	5	5.000				1	1.750	0	8.000	6	9	6	5	27	
8	5 H11	BACKWALL	E	20				31	6.000							31	6	31	6	263				
8	5 H12	BACKWALL	E	14						3	3.000	2	0.875			1	2.000	1	8.500	5	4	5	4	45
59	5 U1	DIAPHRAGM	E	10						3	1.500	1	5.250			7	8	7	5	456				
6	5 U2	DIAPHRAGM	E	11	S			0	6.000	3	1.500	0	6.000			4	8	4	2	26				
		END BENT 9																						
8	5 H101	DIAPHRAGM	E	20				36	8.000							36	8	36	8	306				
24	5 H102	DIAPHRAGM	E	20				6	10.000							6	10	6	10	171				
28	5 H103	DIAPHRAGM	E	20				9	4.000							9	4	9	4	273				
4	5 H104	DIAPHRAGM	E	21				1	3.875	3	6.000				1	1.750	0	8.000	4	10	4	6	19	
4	5 H105	DIAPHRAGM	E	21				1	3.875	5	5.000				1	1.750	0	8.000	6	9	6	5	27	
4	5 H106	DIAPHRAGM	E	21				1	8.625	5	0.000				1	6.500	0	9.000	6	9	6	5	27	
4	5 H107	DIAPHRAGM	E	19				1	8.000	1	3.000					2	11	2	9	11				
8	5 H111	BACKWALL	E	20				36	4.000							36	4	36	4	303				
8	5 H112	BACKWALL	E	14						3	3.000	2	2.875			1	0.000	2	0.000	5	6	5	6	46
59	5 U101	DIAPHRAGM	E	10						3	1.500	1	5.250			7	8	7	5	456				
6	5 U102	DIAPHRAGM	E	11	S			0	6.000	3	1.500	0	6.000			4	8	4	2	26				
		SLAB																						
1499	5 S1	SLAB	E	20				60	0.000							60	0	60	0	93807				
19	5 S2	SLAB	E	20	V	1		13	0.000							13	0	13	0	307				
		INCR. =						18	0.000							18	0	18	0					
		3.375 in																						
27	5 S3	SLAB	E	20	V	1		18	0.000							18	0	18	0	620				
		INCR. =						26	0.000							26	0	26	0					
		3.75 in																						
2	5 S4	SLAB	E	20				10	0.000							10	0	10	0	21				
2	5 S5	SLAB	E	20				27	0.000							27	0	27	0	56				
3	5 S6	SLAB	E	20				42	0.000							42	0	42	0	131				
1	5 S7	SLAB	E	20				54	0.000							54	0	54	0	56				
92	6 S8	SLAB	E	20				53	0.000							53	0	53	0	7324				
100	6 S9	SLAB	E	20				51	0.000							51	0	51	0	7660				
306	6 S10	SLAB	E	20				50	0.000							50	0	50	0	22981				
102	6 S11	SLAB	E	20																				
96	5 S12	SLAB	E	20	V	1		15	0.000							15	0	15	0	2503				
		INCR. =						35	0.000							35	0	35	0					
		2.5 in																						
96	5 S13	SLAB	E	20				9	0.000							9	0	9	0	901				
1852	6 S14	SLAB	E	20				27	8.000							27	8	27	8	76960				
1245	6 S15	SLAB	E	20				42	7.000							42	7	42	7	79630				
1138	6 S16	SLAB	E	20				22	10.000							22	10	22	10	39028				



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		H	A OR G	H	A OR G
#4	2"	4 1/2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

NOTE: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET. E = EPOXY COATED REINFORCEMENT. S = STIRRUP. X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES. V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. NO. EA. = NUMBER OF BARS OF EACH LENGTH. NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH) ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH. PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS. FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS. REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

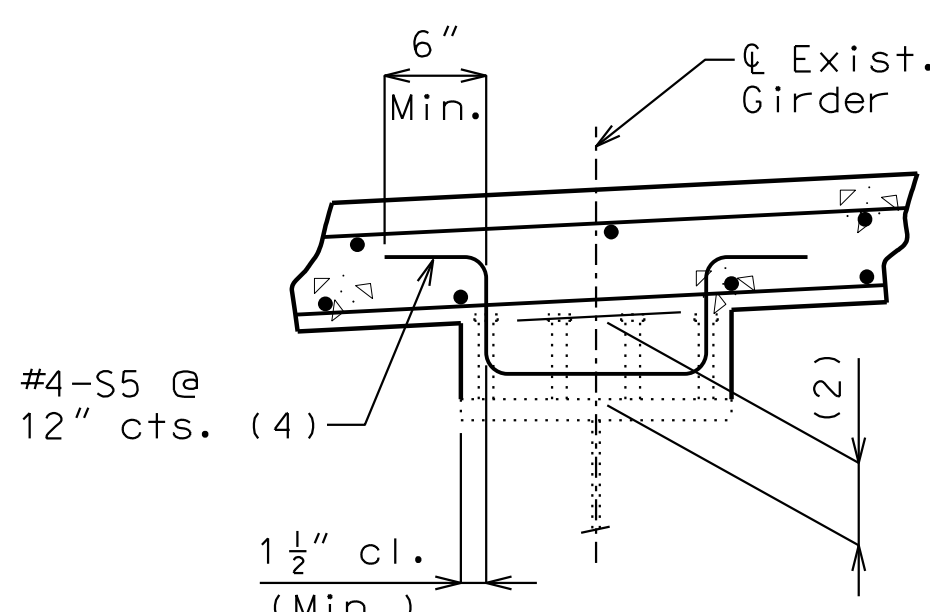
BILL OF REINFORCING STEEL

NO. REO'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT							
								B	C	D	E	F	H	K										
SIZE	MARK							FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	LBS.				
		SLAB CONT.																						
27	6 S17	SLAB	E	20				2	0.000							2	0	2	0	618				
		INCR. =						28	6.000							28	6	28	6					
		12.25 in																						
18	6 S18	SLAB	E	20				10	5.000							10	5	10	5	488				
		INCR. =						25	8.000							25	8	25	8					
		10.75 in																						
24	6 S19	SLAB	E	20				5	10.000							5	10	5	10	634				
		INCR. =						29	4.000							29	4	29	4					
		12.25 in																						
44	6 S20	SLAB	E	20				2	0.000							2	0	2	0	1462				
		INCR. =						42	3.000							42	3	42	3					
		11.25 in																						
11	6 S21	SLAB	E	14						4	6.000	4	6.000			2	4.000	3	10.125	9	0	9	0	149
104	6 S22	SLAB	E	20				6	0.000							6	0	6	0	937				
24	6 S23	SLAB	E	20				2	0.000							2	0	2	0	550				
		INCR. =						28	6.000							28	6	28	6					
		13.875 in																						
15	6 S24	SLAB	E	20				10	5.000							10								

Required Lap Length For Bar Splices (1)

Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.



(4) 4000 #4-S5 Bars required total.

(2) #4-S5 Bars required when haunch exceeds 2" for 4" Long Shear Connectors and 3" for 5" Long Shear Connectors.

SECTION THRU HAUNCH

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:

HS20-44 Modified (1961)
HS20-44 Modified (1983 and 2021)
15 lb/sf Future Wearing Surface

Design Unit Stresses:

Class B-1 Concrete (Barrier) f'c = 4,000 psi
Class B-2 Concrete (Superstructure, except Barrier) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi
Structural Carbon Steel (ASTM A709 Grade 36)

Fabricated Steel Connections:

Field connections shall be made with 3/4" diameter high strength ASTM F3125 Grade A325 Type 1 bolts and 13/16" diameter holes, except as noted.

Joint Filler:

All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	860
Reinforcing Steel (Epoxy Coated)	pound	296,280

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations should be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

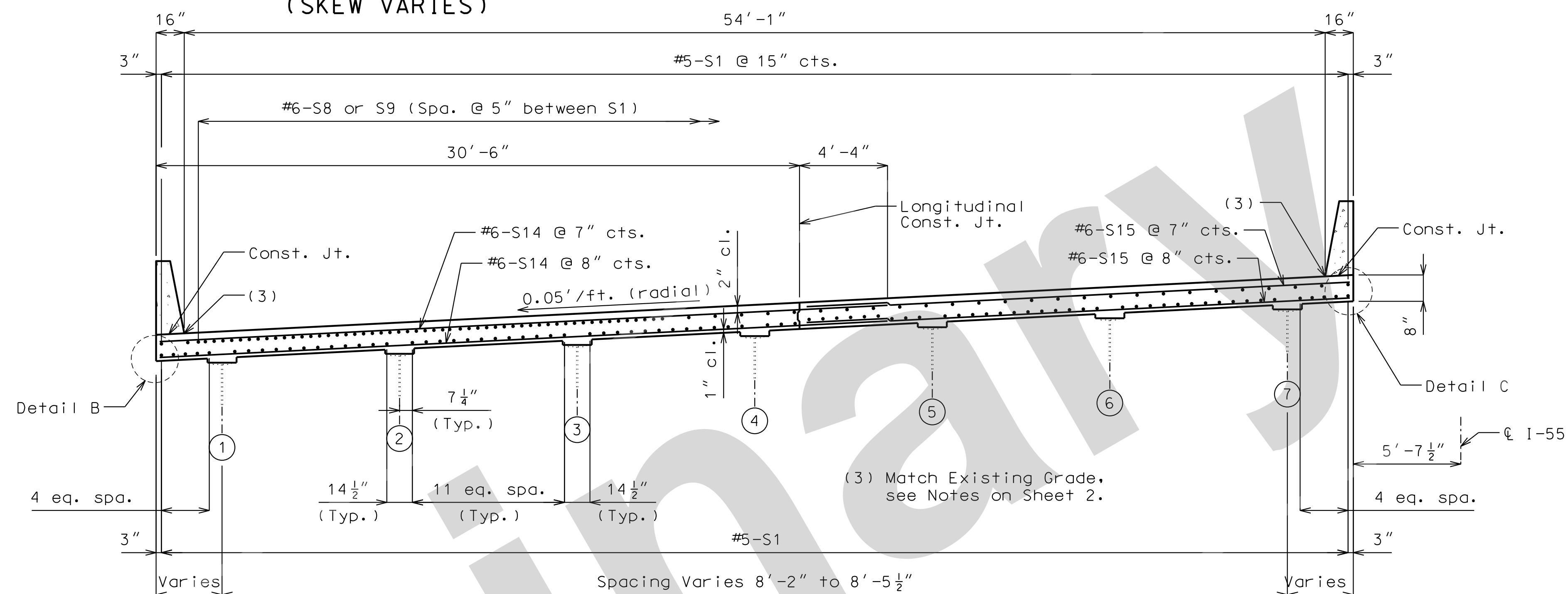
Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

All reinforcement in the concrete diaphragm at the end bents is included in the Estimated Quantities for Slab on Steel.

Concrete above the upper construction joint in backwall at End Bents 1 and 9 is included with Ultra-High Performance Concrete (UHCP) Quantities.

U.I.P., REDECK AND REHABILITATE EXISTING (65'-79'-78'-68') (5'-78'-74'-74'-59') COMPOSITE WIDE FLANGE BEAM SPANS (SKEW VARIES)



SOUTHBOUND NEAR INT BENT

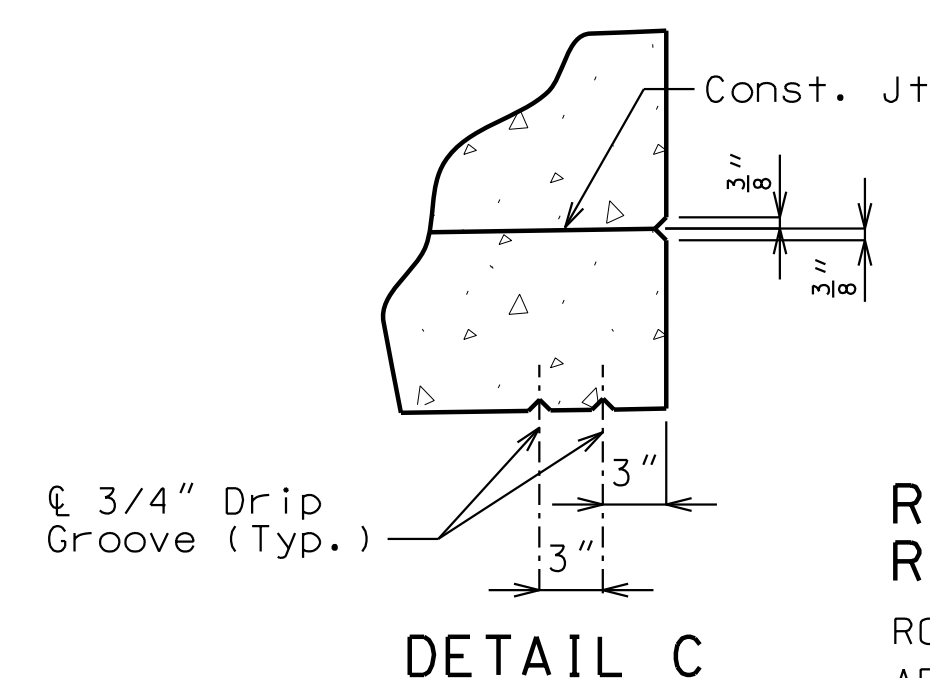
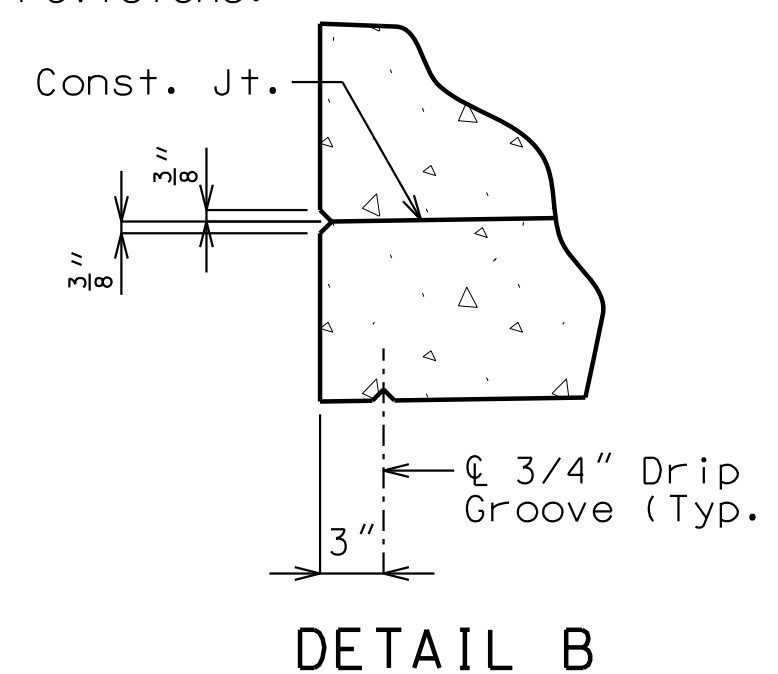
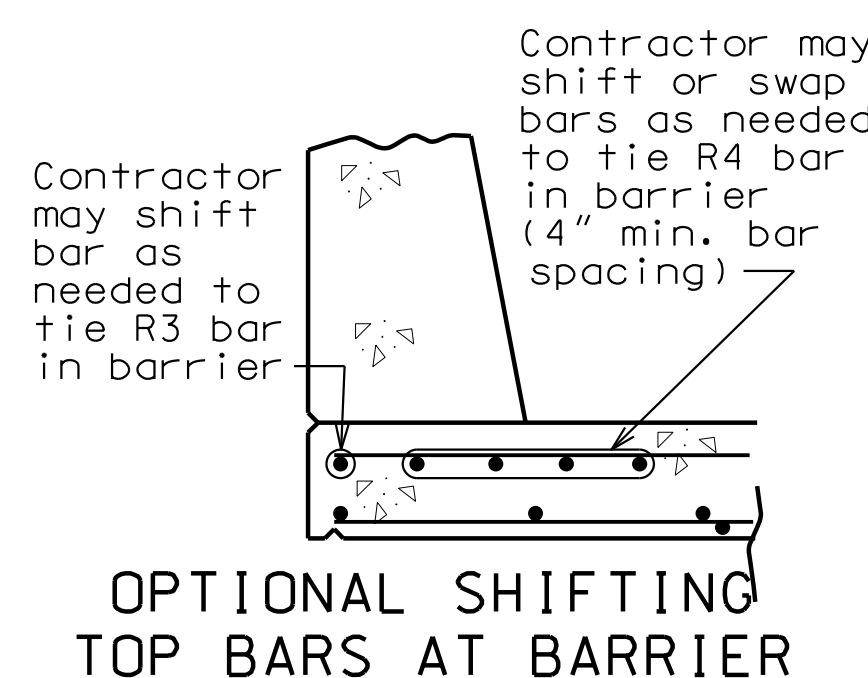
SOUTHBOUND NEAR MID SPAN

Estimated Quantities			
Item		Substr.	Superstr. Total
Removal of Existing Bridge Decks	sq. foot		33,618
Removal of Existing Bearings	each		21
Bridge Approach Slab (Major)	sq. yard		240
Slab on Steel	sq. yard		3,607
Type D Barrier	linear foot		1,220
Ultra-High Performance Concrete (UHPC)	cu. yard		20.9
Substructure Repair (Formed)	sq. foot	150	150
Conduit System on Structure	lump sum		1
Protective Coating Concrete Bents and Piers (Epoxy)	lump sum		1
Fabricated Structural Carbon Steel (Misc.)	pound		1,460
Drainage System (On Structure)	lump sum		1
Surface Preparation for Recoating Structural Steel	sq. foot		400
Field Application of Inorganic Zinc Primer	sq. foot		400
Intermediate Field Coat (System G)	sq. foot		600
Non-Destructive Testing	linear foot		767
Reset Bearings	each		10
Laminated Neoprene Bearing Pad Assembly	each		21
Strip Seal Expansion Joint System	linear foot		188

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Payment for removal of girder bumpers and trimming girder ends will be considered completely covered by the contract price for Removal of Existing Bearings.

Non-Destructive Testing shall be performed on the welds of all existing top flange cover plates, see Special Provisions.



REPAIRS TO BRIDGE:
ROUTE I-55 SB OVER 2nd ST
ROUTE I-55 FROM I-255 TO I-44
ABOUT 9.6 MILES NORTH OF I-255
STATION 685+12.69± (MATCH EXISTING)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

901 NORTH BROADWAY SUITE 2121 ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

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General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Pouring and Finishing Slab:

Final top of slab elevations shall match existing top of overlay elevations.

The contractor shall determine deadload deflections and haunching based on field measurements and/or existing bridge plans and these may be adjusted based on the difference between the new and existing dead load weights.

The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Top of backwall for End Bents No. 1 and 9 shall be formed to the crown and grade of the roadway. Backwall above upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

Haunching:

(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

(2) #5 bars shall be cleaned, straightened, and reused.

Miscellaneous:

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

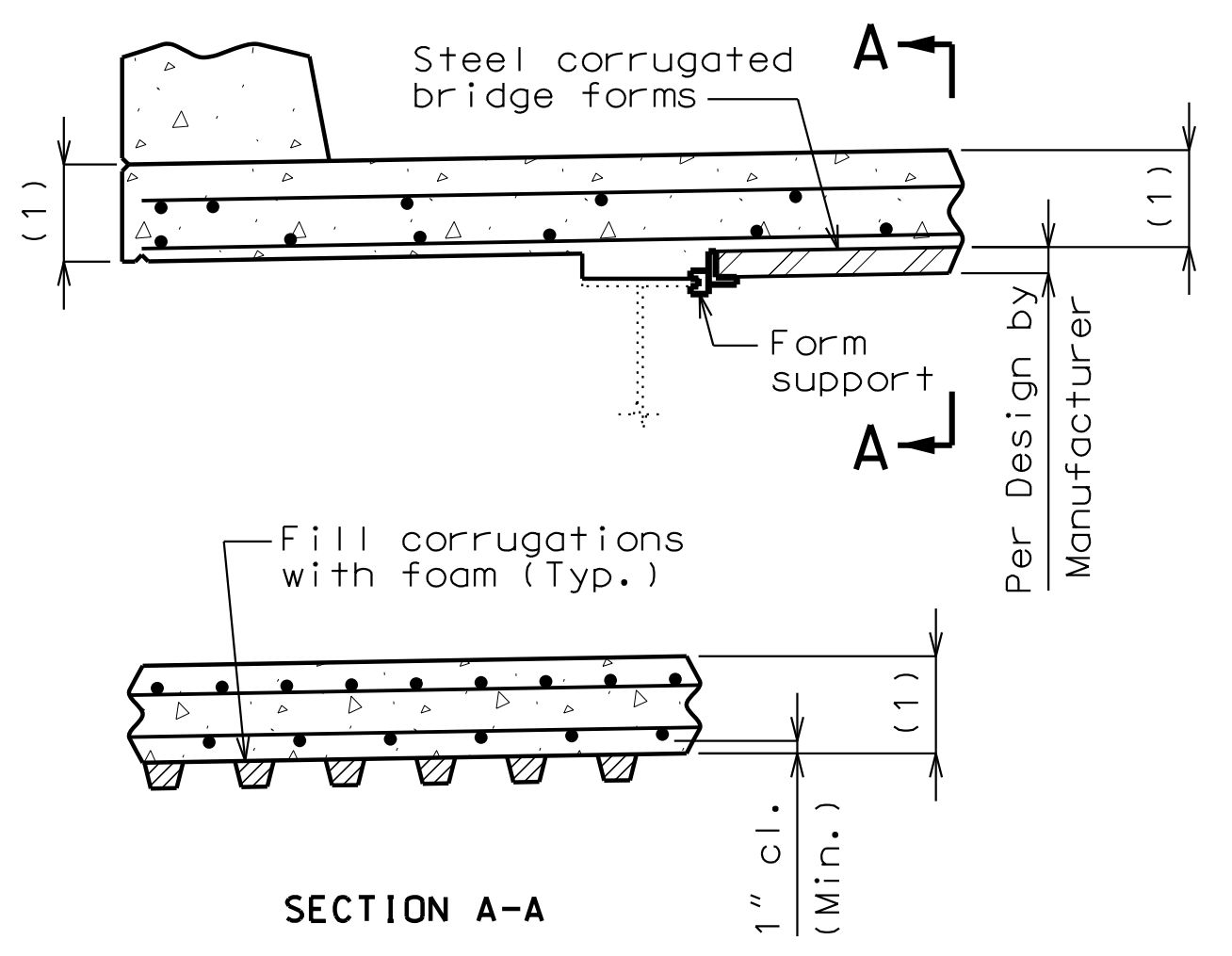
All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

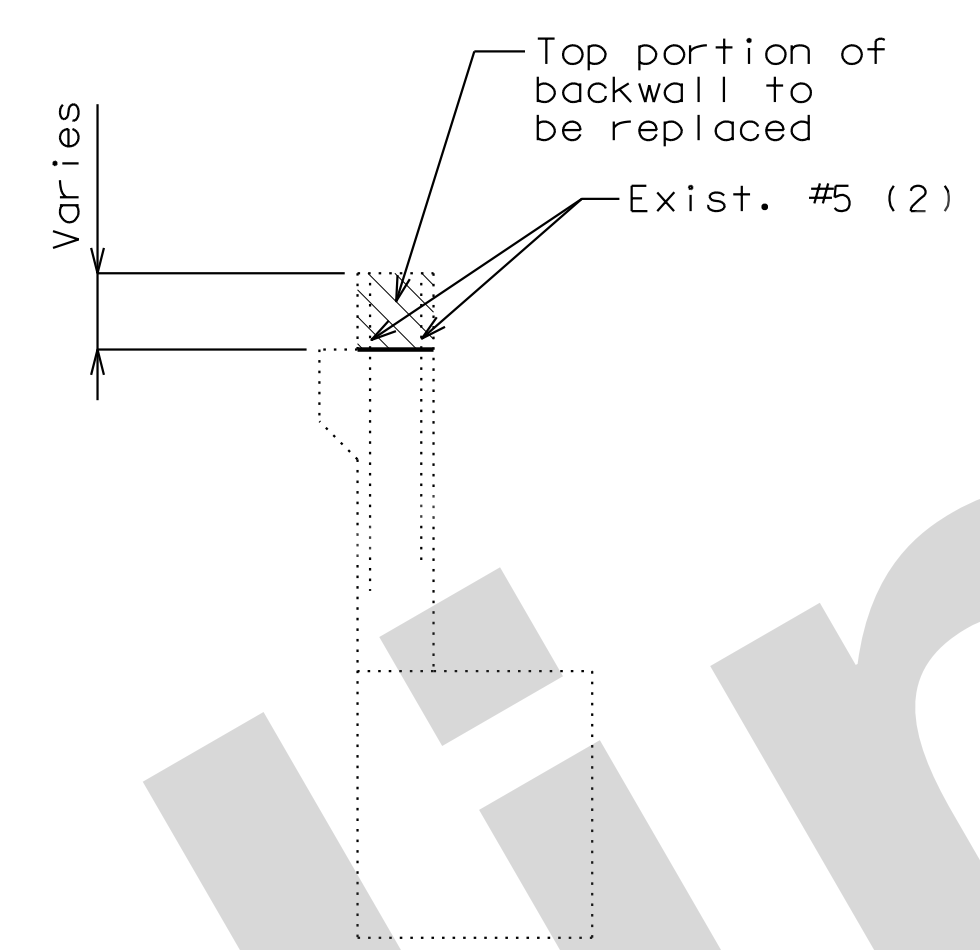
Longitudinal dimensions are based on the original design plans.

Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

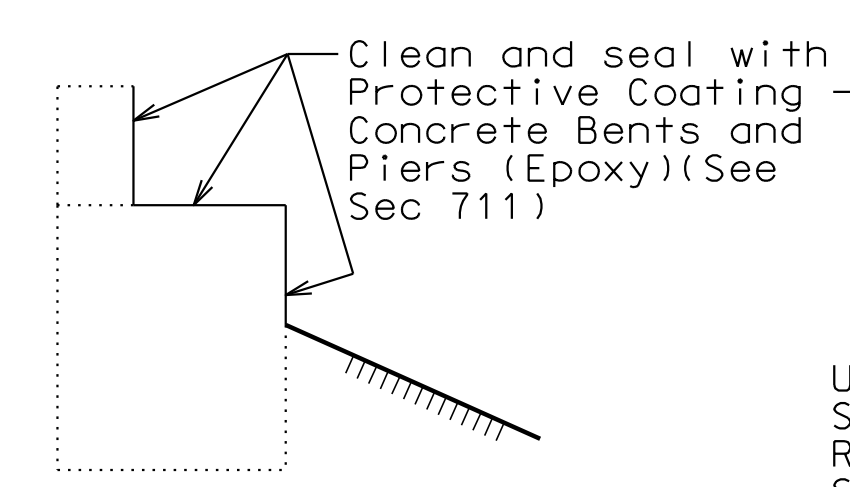


STAY-IN-PLACE FORM DETAILS

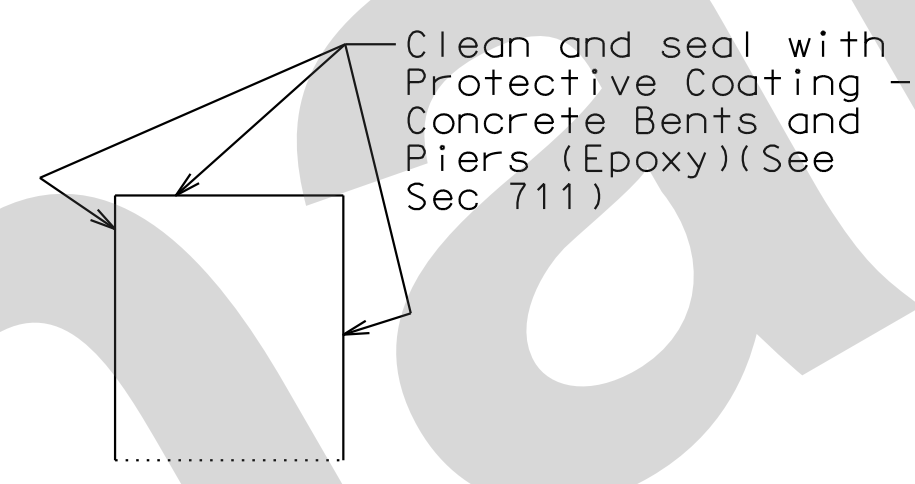


PART SECTION SHOWING REMOVAL AT END BENTS

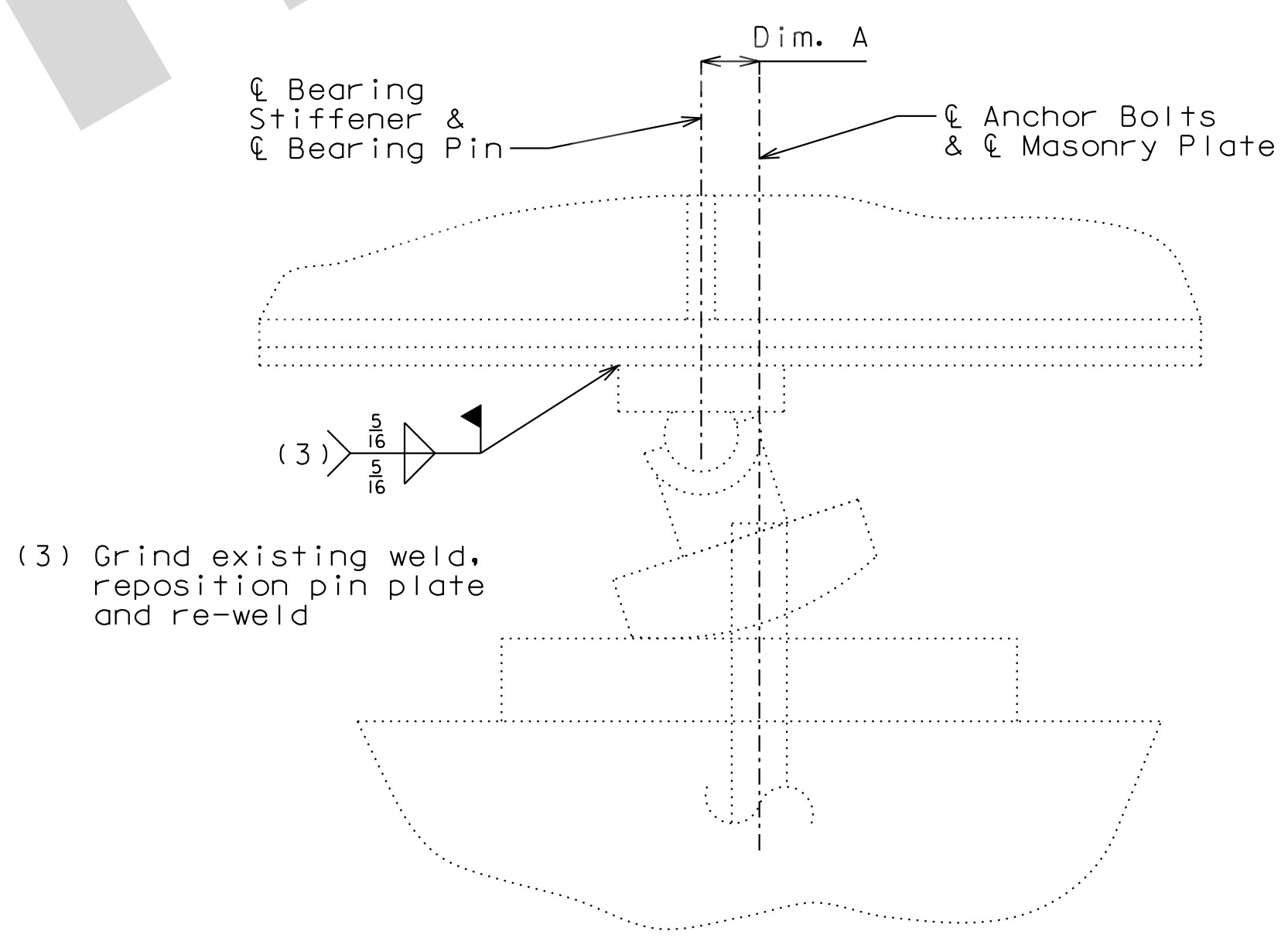
Payment for removal of concrete above the upper construction joint in the backwall at End Bents 1 and 9 will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck.



TYPICAL SECTION THRU END BENTS 1 & 9 SHOWING PROTECTIVE COATING

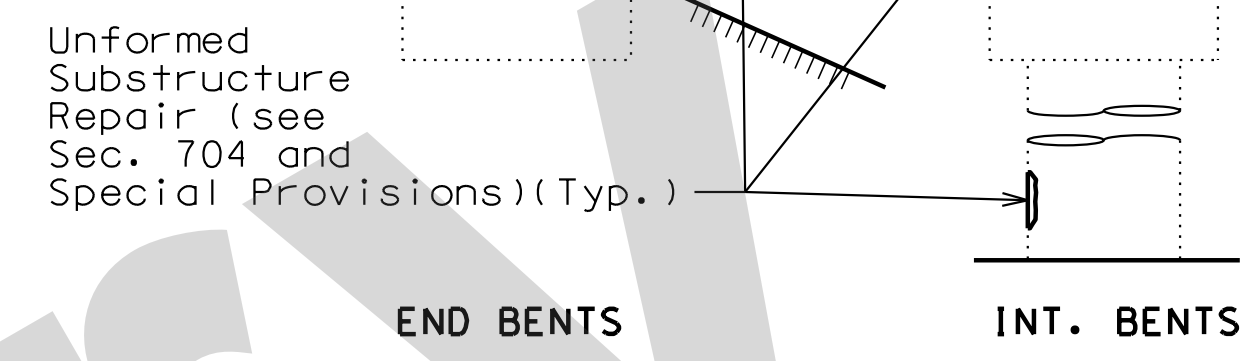


TYPICAL SECTION THRU INT. BENT 5 SHOWING PROTECTIVE COATING

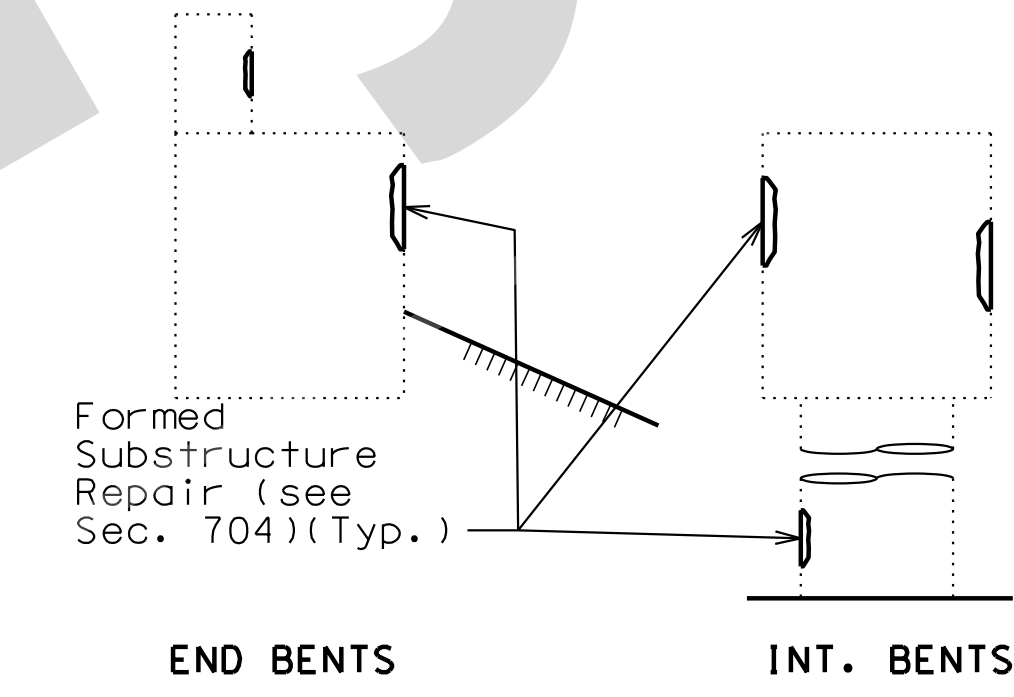


RESET BEARINGS FOR GIRDER 1 & 7 AS REQUIRED AT INTERMEDIATE BENTS

Note: The cost to reset bearings, including all equipment, material and labor will be completely covered by the contract unit price for Reset Bearings.



TYPICAL SECTION SHOWING UNFORMED SUBSTRUCTURE REPAIR



TYPICAL SECTION SHOWING FORMED SUBSTRUCTURE REPAIR

DIMENSION A:

Dim. A = 0" at 60°F.

Adjust Dim. A 1/16" for each 10°F fall or rise in temperature from 60° at time of resetting.

For Bents 2, 3, 7, & 8:

For a temperature above 60°F, the adjustment shall move the bearing pin toward the adjacent End Bent.

For a temperature above 60°F, the adjustment shall move the bearing pin away from the adjacent End Bent.

For Bent 5:

For a temperature above 60°F, the adjustment shall move the bearing pin toward the adjacent Bent 4.

For a temperature above 60°F, the adjustment shall move the bearing pin away from the adjacent Bent 4.



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DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

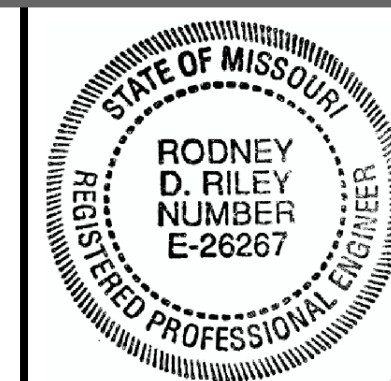
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

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ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

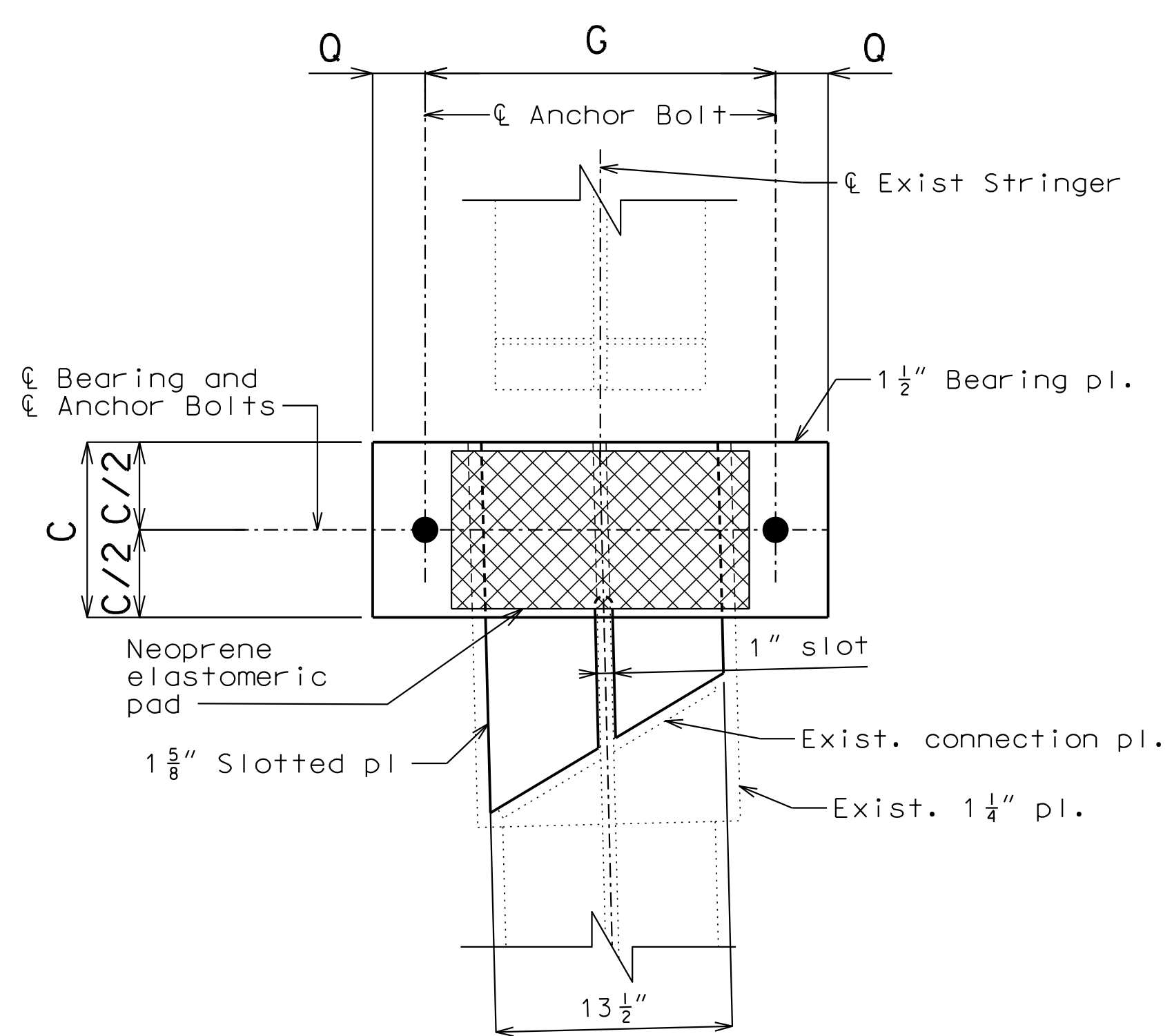
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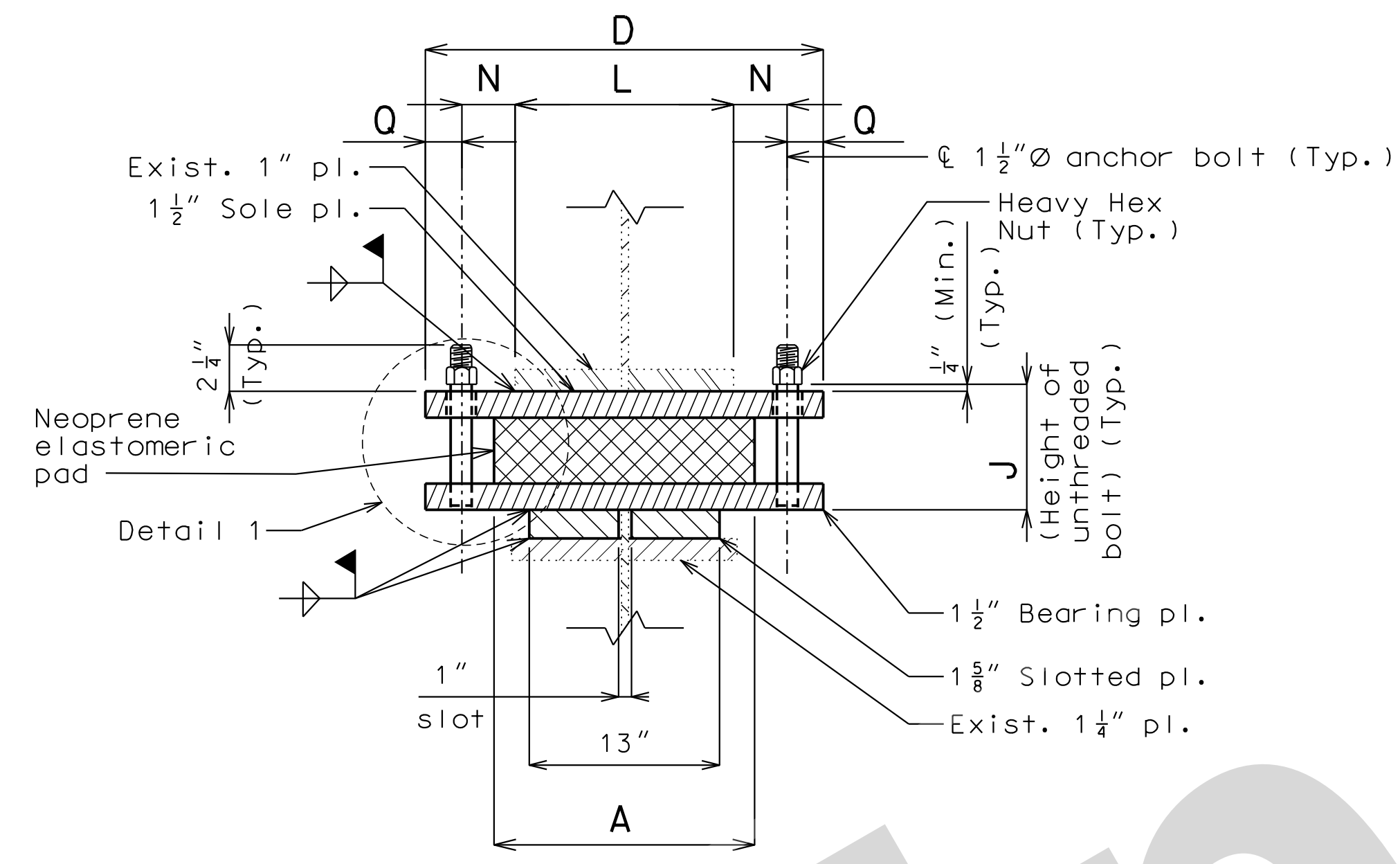
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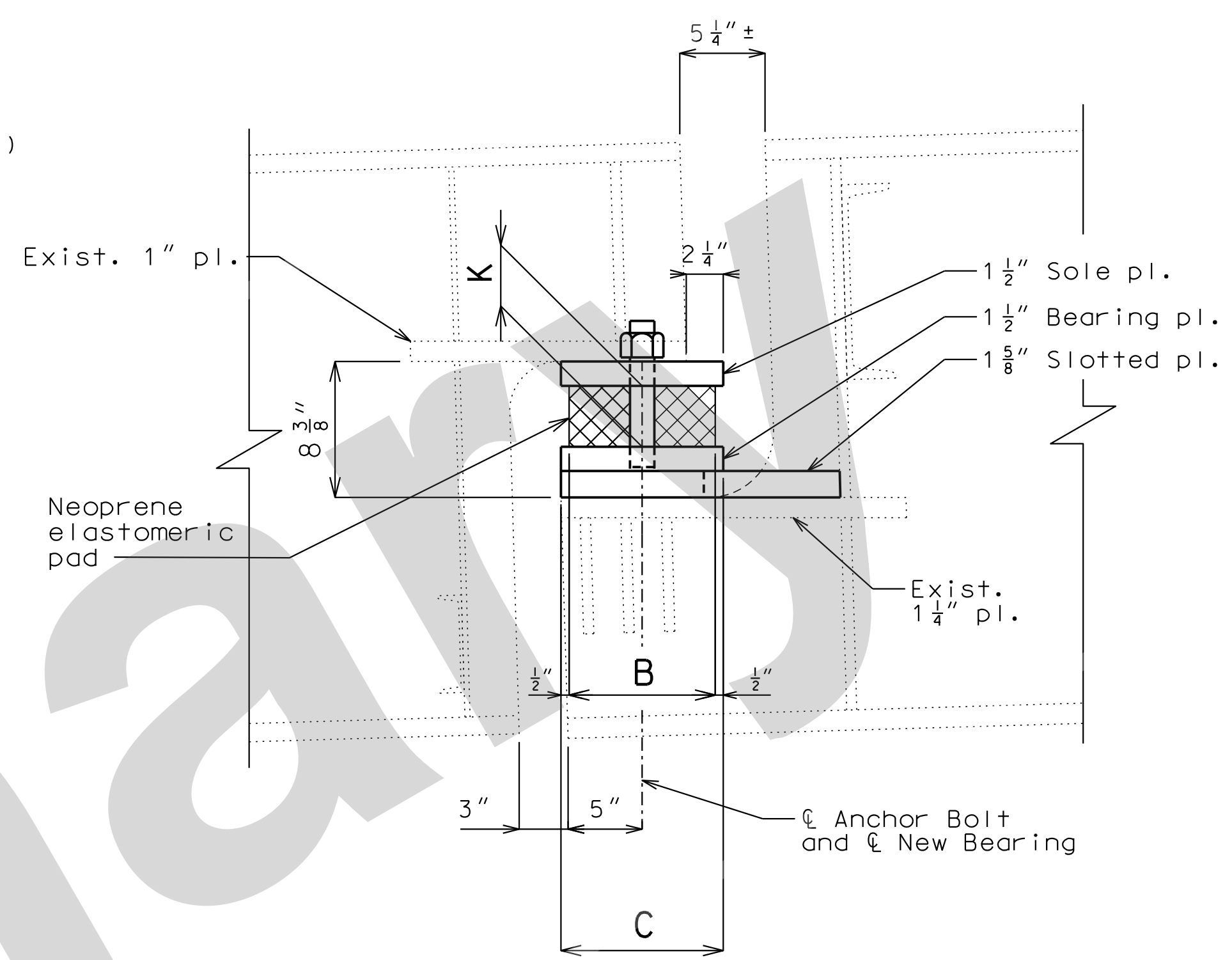
REV.



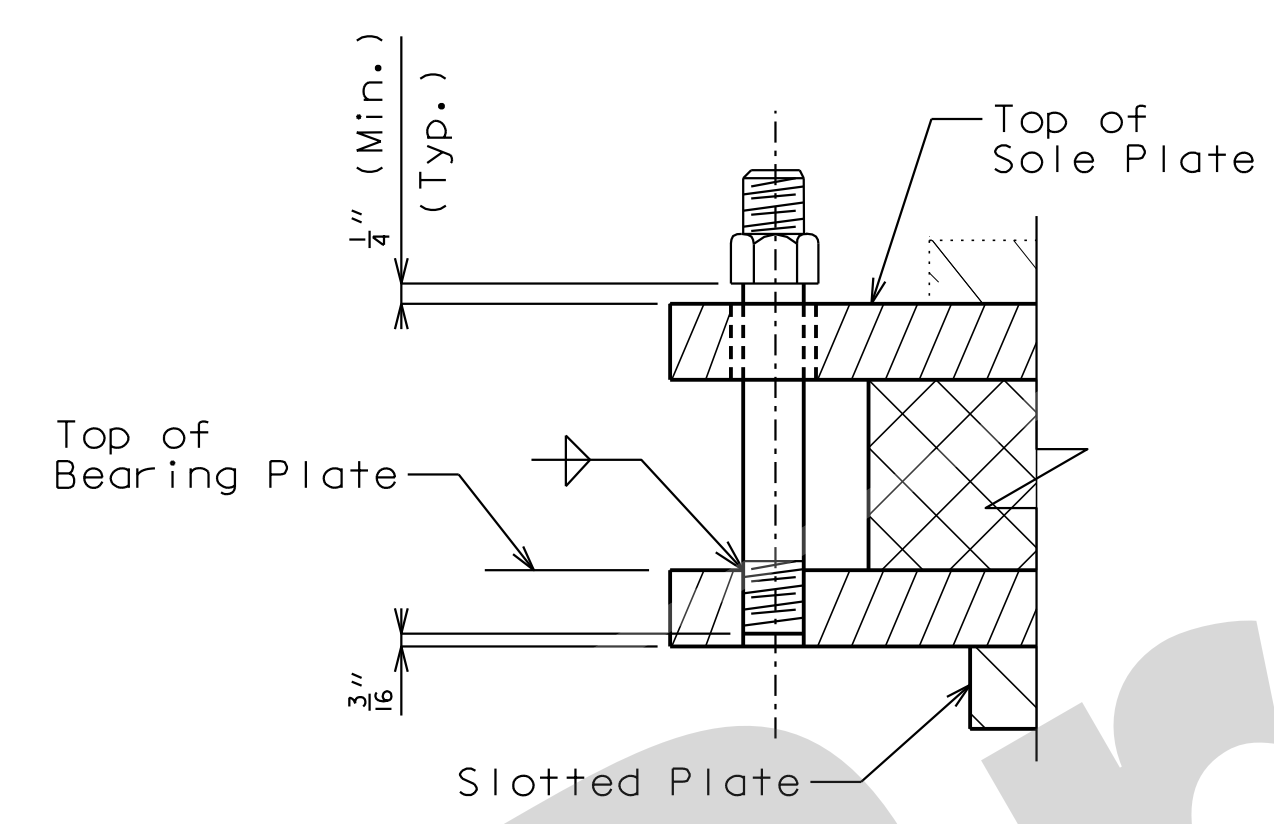
PART PLAN SHOWING BEARING PLATE



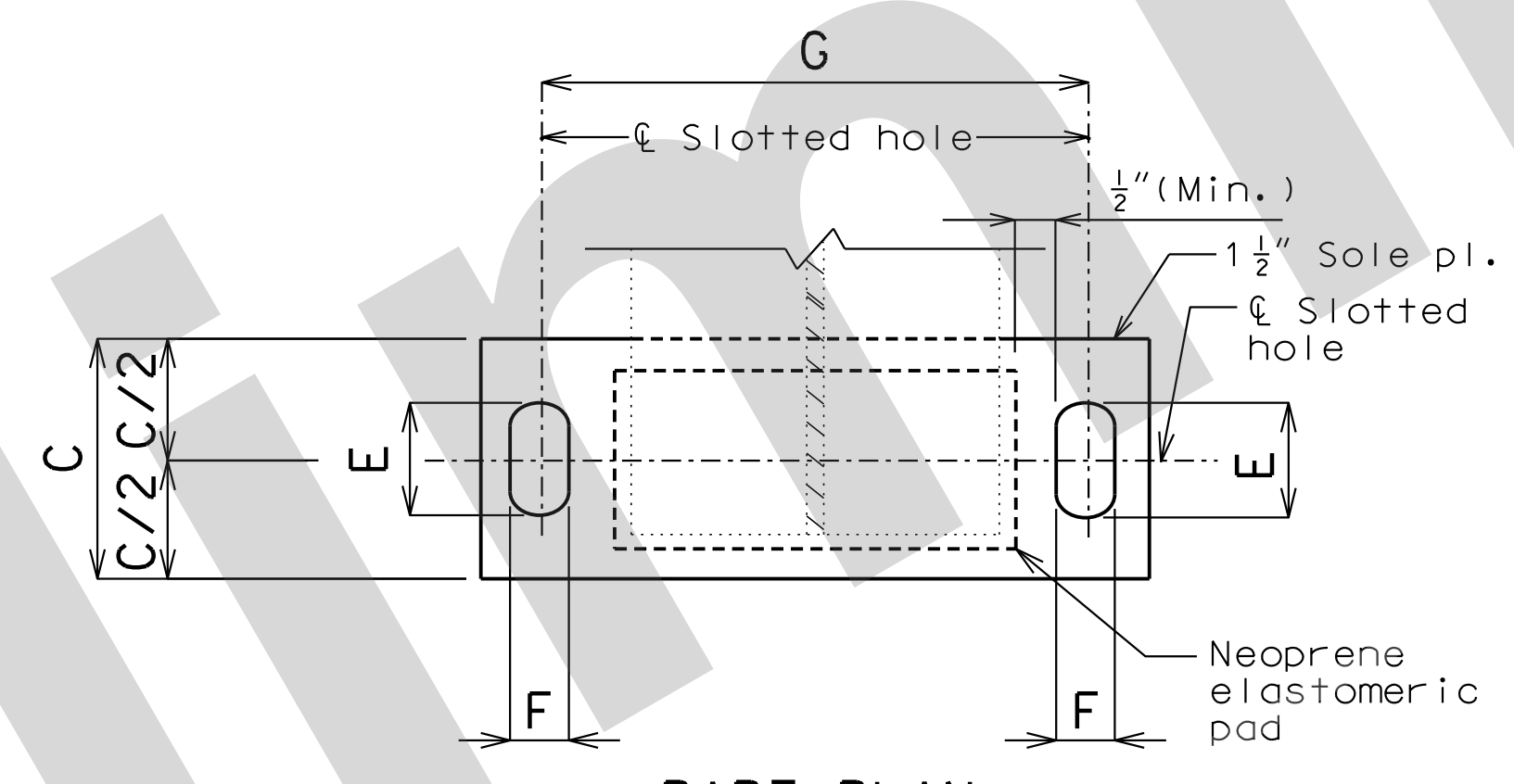
END VIEW



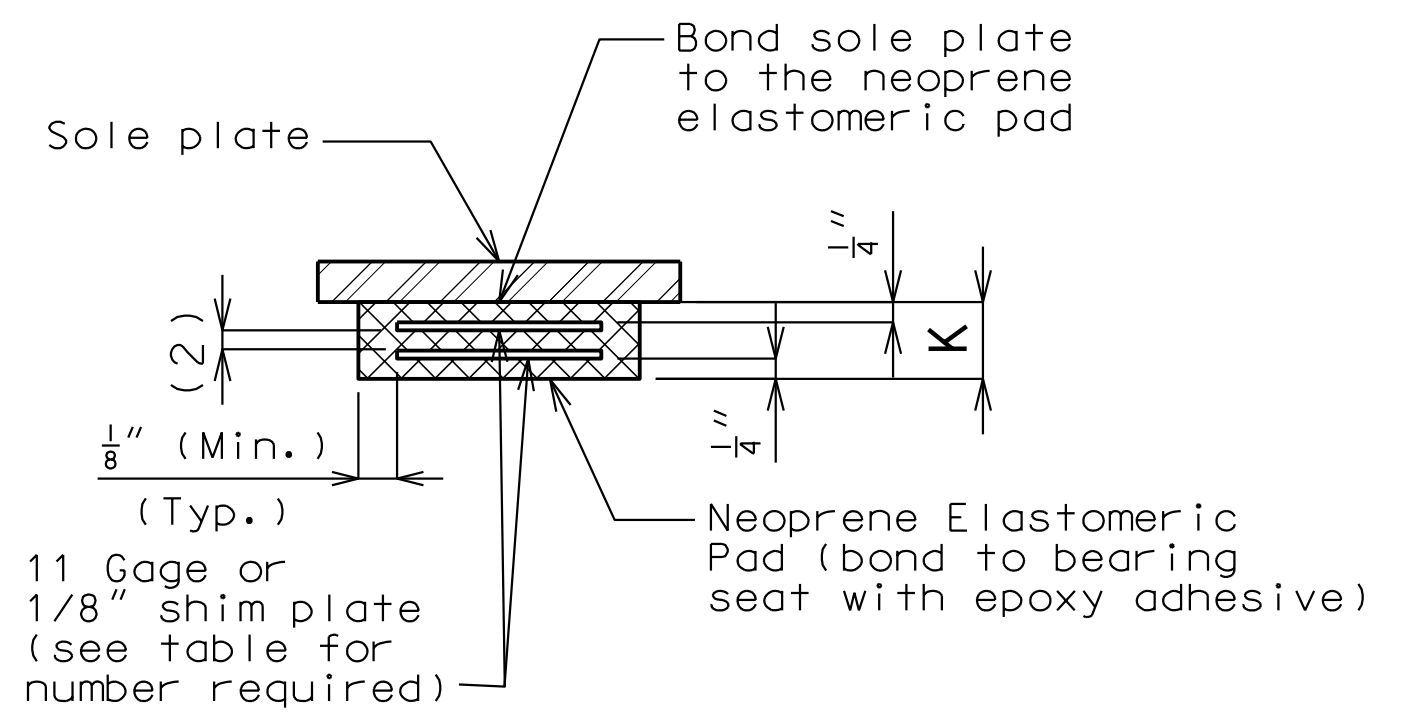
SIDE VIEW



DETAIL 1



PART PLAN SHOWING SOLE PLATE



NEOPRENE ELASTOMERIC PAD

GENERAL NOTES:

- Anchor bolts shall be 1 1/2"Ø ASTM F1554 Grade 55 bolts with ASTM 563 Grade A Hex or Heavy Hex nuts.
- Anchor bolts and heavy hex nuts shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with Sec 1081.
- Neoprene Elastomeric Pads shall be 70 Durometer.
- Structural steel for sole plate, bearing plate, and slotted plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum.
- Laminated Neoprene Bearing Pad Assembly shall be in accordance with Sec 716.
- The cost for the bearing assembly, including laminated neoprene pad, sole plate, bearing plate and anchor bolts, complete in place, will be considered completely covered by the contract unit price for Laminated Neoprene Bearing Pad Assembly.
- The cost for the slotted plate, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Carbon Steel (Misc.).

EXPANSION BEARINGS															NUMBER OF SHIM PLATES (1)	NUMBER REQUIRED	
BENT NO.	A	B	C	D	E	F	G	J	K	L	M	N	P	Q			R
Hinge near Bent 5	17"	9"	10"	26"	6"	1 5/8"	20"	5 1/2"	3 3/4"	12"	-	2 3/8"	0"	3"	-	6	7
TOTAL BEARINGS																7	

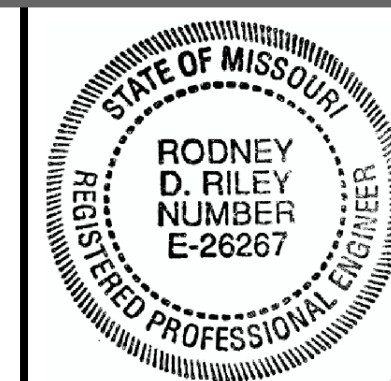
(1) The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

LAMINATED NEOPRENE BEARING PAD ASSEMBLY AT HINGE NEAR INT. BENT NO. 5

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 24



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DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

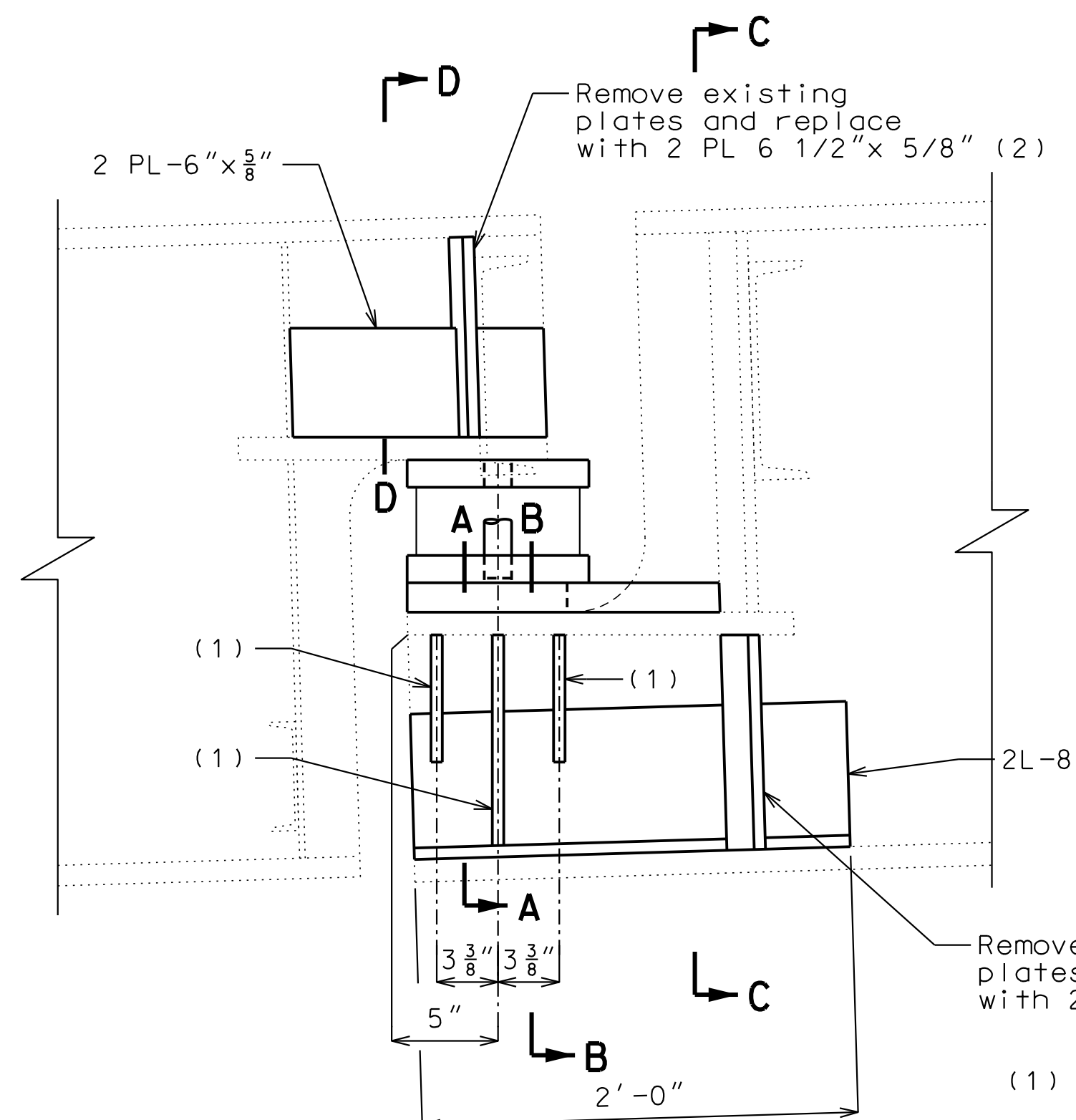
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JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

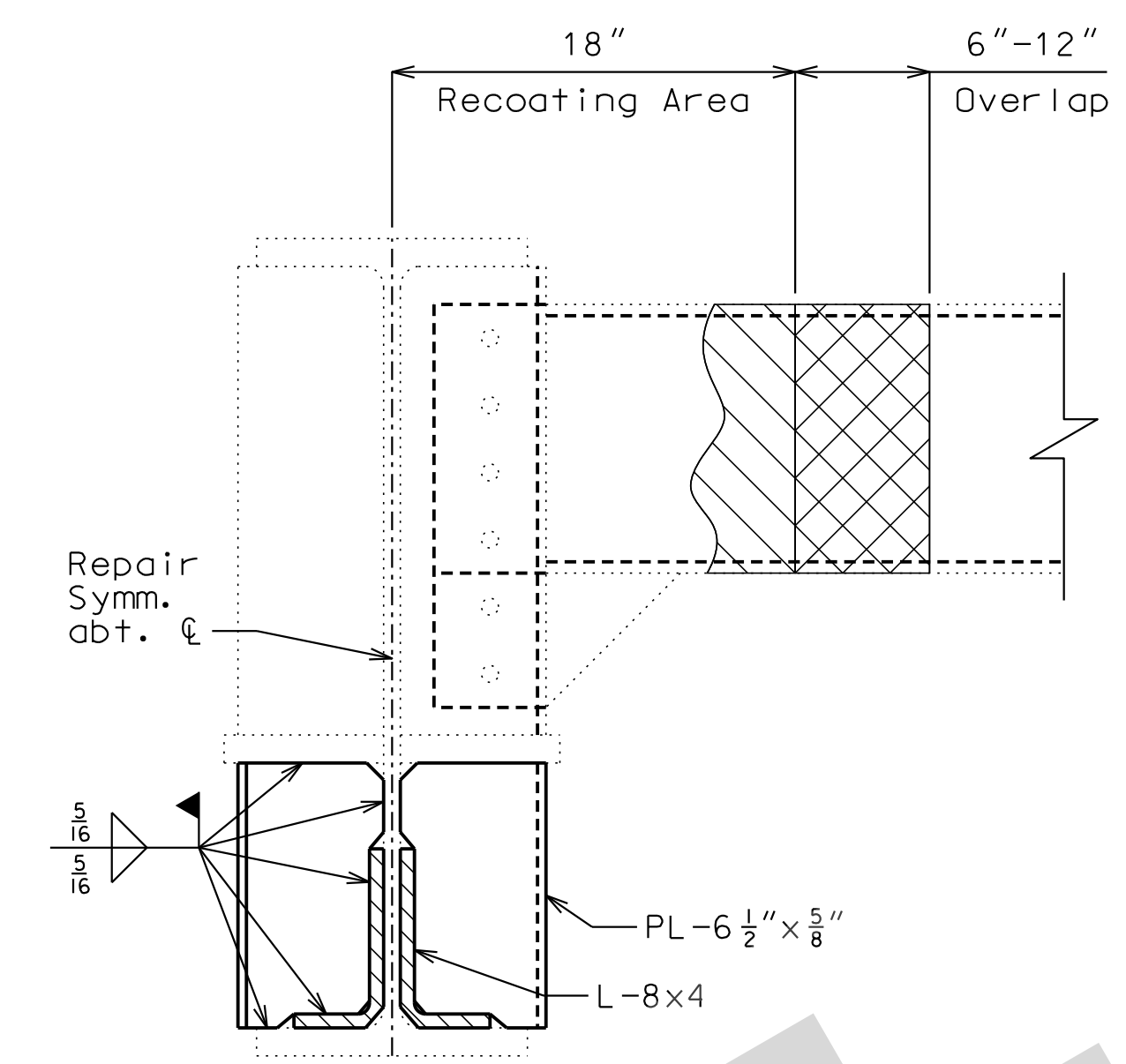
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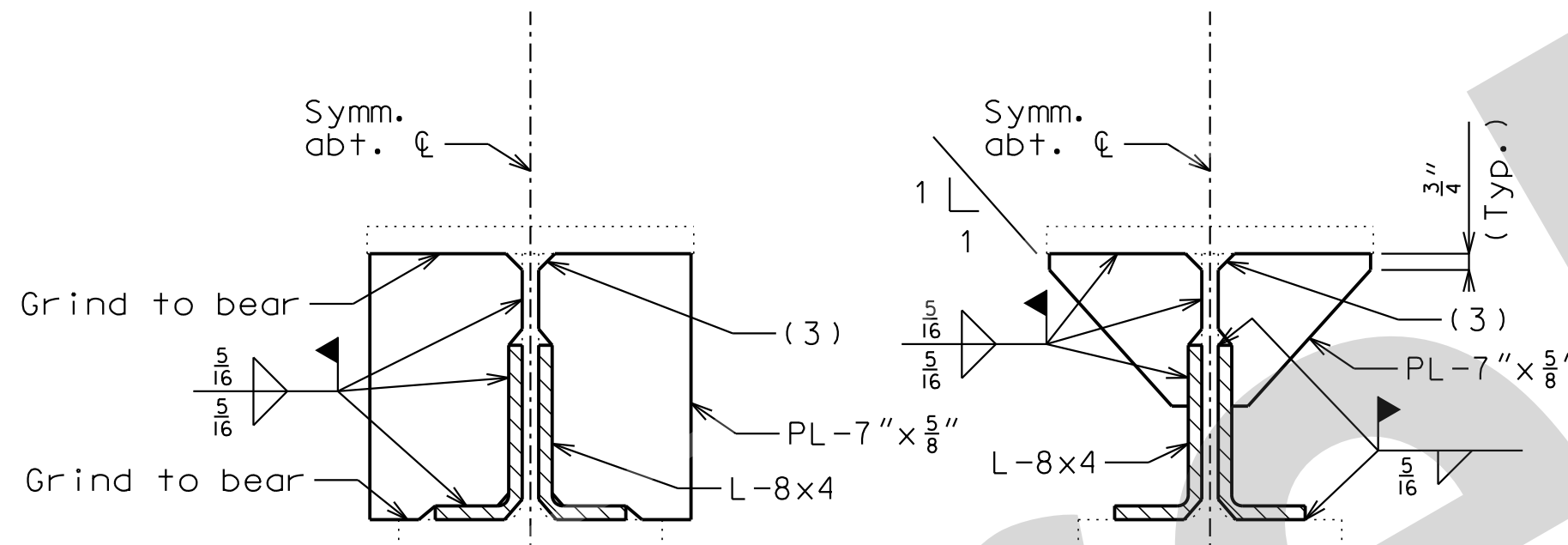
STEEL GIRDER REPAIR AT GIRDERS 1 AND 7

- (1) Remove existing plates and replace with 2 PL 7"x 5/8"
- (2) Field drill plate and reconnect existing channels.
- (3) 3/4" chamfer (Typ.)



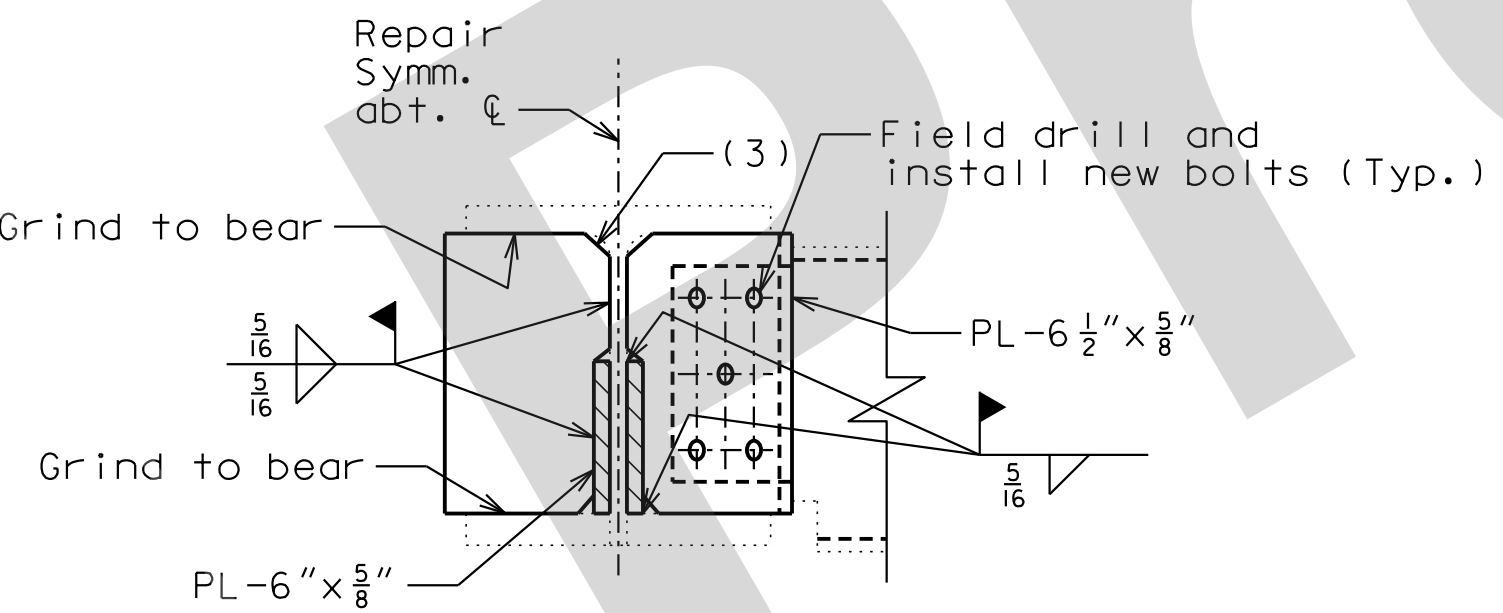
SECTION C-C

Painting limits shown at Girder 1, others similar. See Part Elevation Showing Limits Of Paint Overlap.



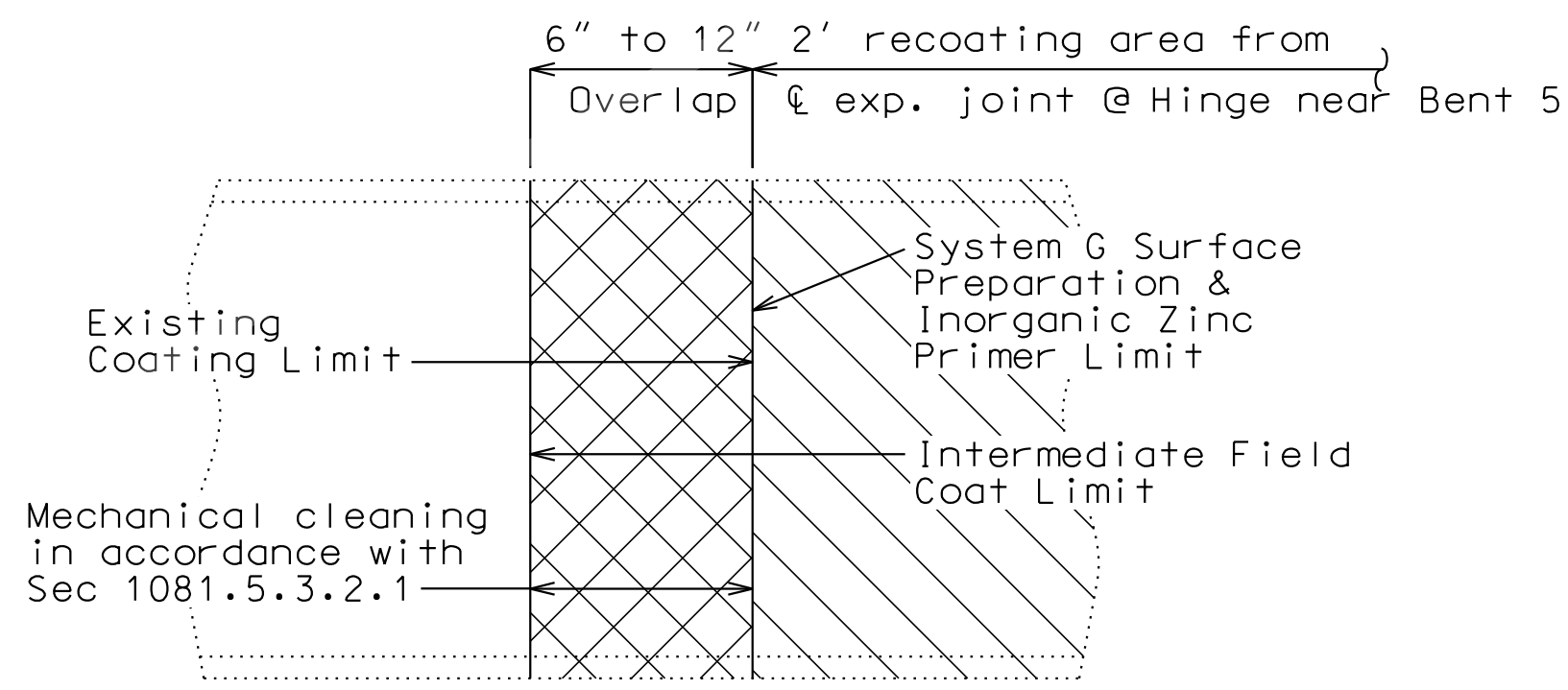
SECTION A-A

SECTION B-B



SECTION D-D

Girder 1 shown Girder 7 similar



PART ELEVATION SHOWING LIMITS OF PAINT OVERLAP (Vertical or horizontal paint limit. Horizontal limit shown)

NOTES:

Fabricated structural steel shall be ASTM A709 Grade 36, except as noted.

The cost of new structural steel and removal of existing structural steel will be completely covered by the contract price per pound for Fabricated Structural Carbon Steel (Misc.).

Bolts shall be 7/8" dia. ASTM F3125 Type 1 in 15/16" holes.

The contractor shall verify all dimensions in field before ordering material.

For Laminated Neoprene Bearing Pad Assembly details, see Sheet No. 4.

Protective Coating: System G in accordance with Sec 1081.

Surface preparation of the existing steel shall be in accordance with Sec 1081 for Recoating of Structural Steel (System G). The cost of surface preparation will be considered completely covered by the contract price per sq. foot for Surface Preparation for Recoating Structural Steel.

Prime Coat (New Steel): The cost of the prime coat will be considered completely covered by the contract unit price for the fabricated structural steel.

Prime Coat (Existing Steel): The cost of the prime coat will be considered completely covered by the contract unit price per sq. foot for Field Application of Inorganic Zinc Primer. Tint of the prime coat for System G shall be similar to the color of the field coat to be used.

At the option of the contractor, the intermediate field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.

Field Coat(s): The color of the field coat(s) shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be completely covered by the contract unit price per sq. foot for Intermediate Field Coat (System G).

Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

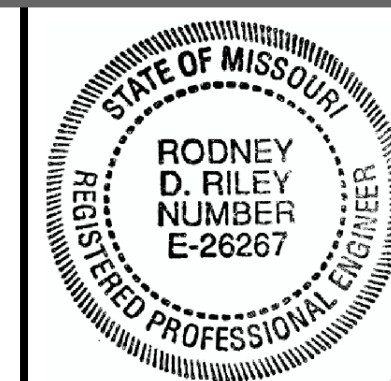
System G shall overlap the existing coating between 6 inches and 12 inches in order to achieve maximum coverage at the paint limit of each complete system. The intermediate field coating shall be masked to provide crisp, straight lines and to prevent overspray beyond the overlap required.

STRUCTURAL STEEL REPAIR NEAR INT. BENT NO. 5

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 6

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

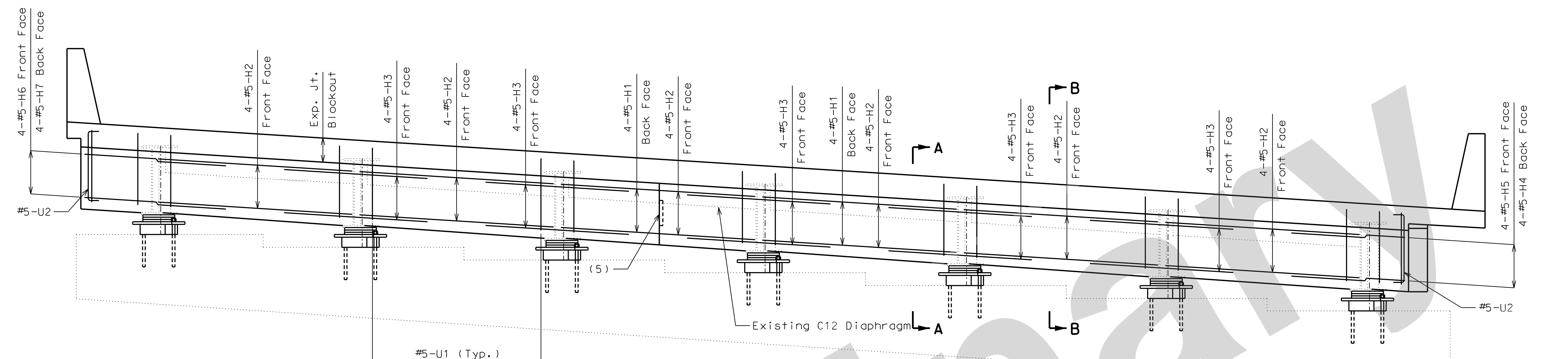
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

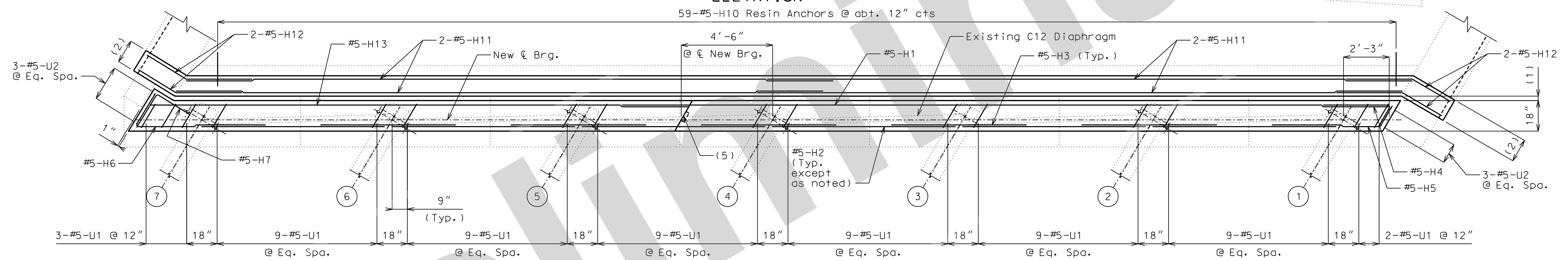
901 NORTH BROADWAY SUITE 200 ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

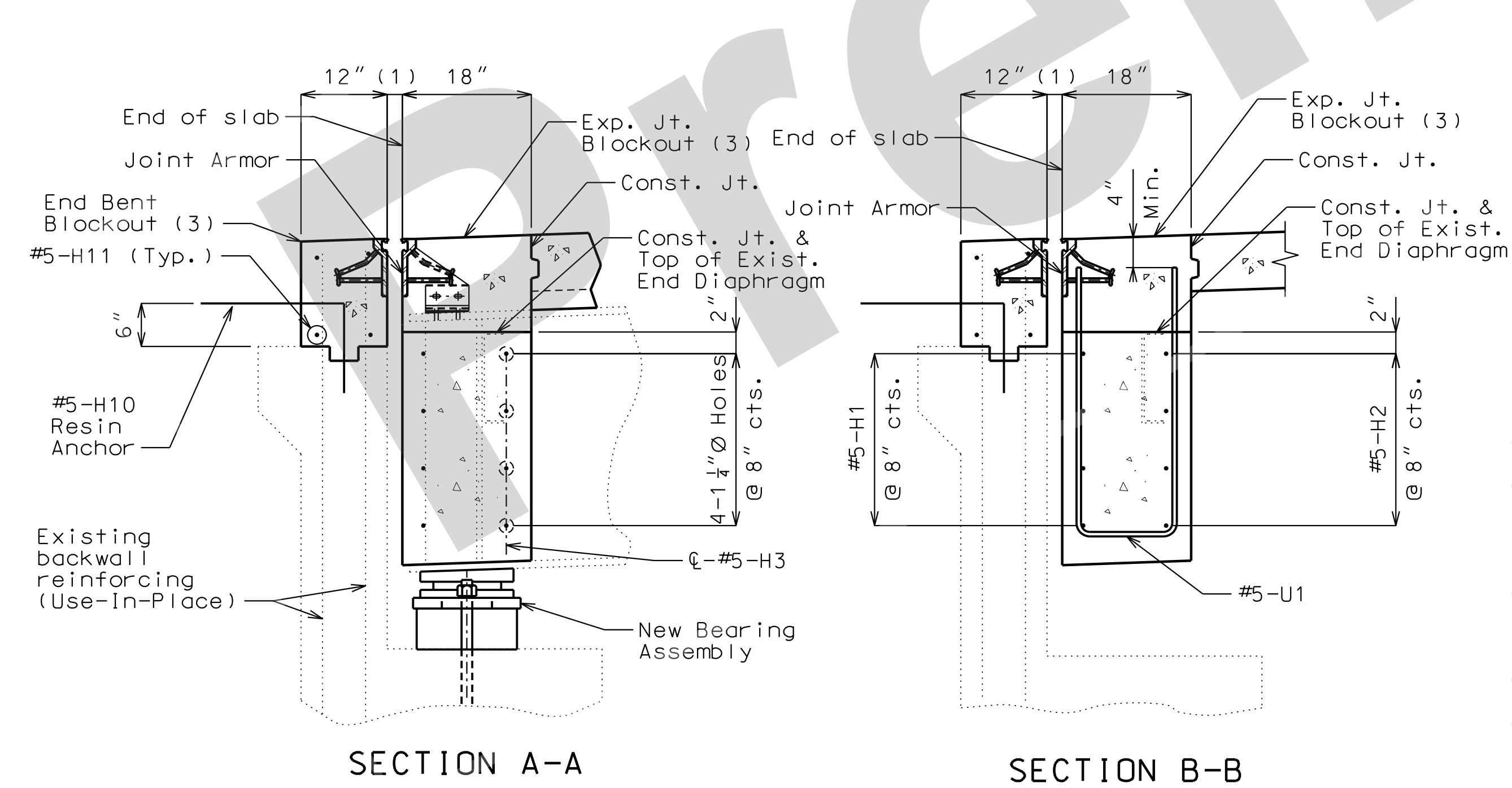


ELEVATION

59-#5-H10 Resin Anchors @ abt. 12" cts

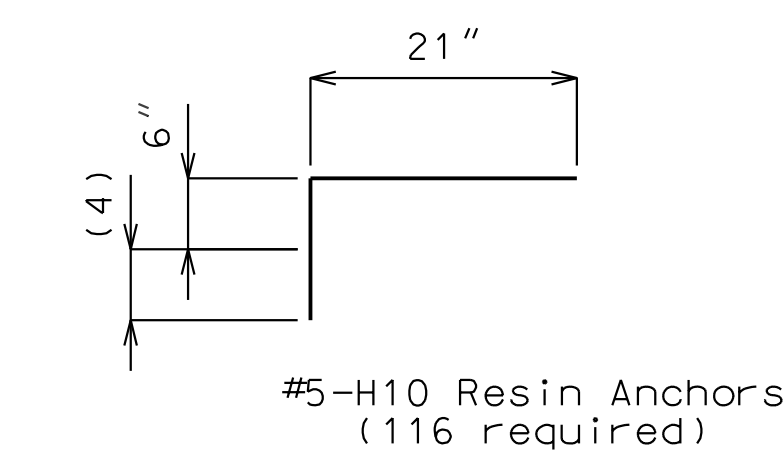


PLAN



SECTION A-A

SECTION B-B



DETAILS OF #5-H10 RESIN ANCHOR SYSTEM

- Notes:
- (1) See "Strip Seal Expansion Joint System at End Bents".
 - (2) Remove portion of Existing Wingwall to extend End Bent Blockout to edge of slab. Existing reinforcing shall be cleaned, straightened, and incorporated into blockout.
 - (3) Concrete for blockouts (above construction joint) shall be Ultra High Performance Concrete (UHPC), see special provisions.
 - (4) Manufacturer's recommended embedment length (5" min.)
 - (5) Optional Keyed Construction Joint 14"x2"x6"

Notes:

For existing End Bent details see As-Built Plans Sheet No. 8 of 34.

Top of backwall for End Bent No. 1 shall be formed to the slope and grade of the roadway. Backwall above the upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

All concrete below the upper construction joint shall be Class B-2 Concrete.

All concrete and reinforcement in the concrete diaphragms at the end bents is included in the Estimated Quantities for Slab on Steel.

RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

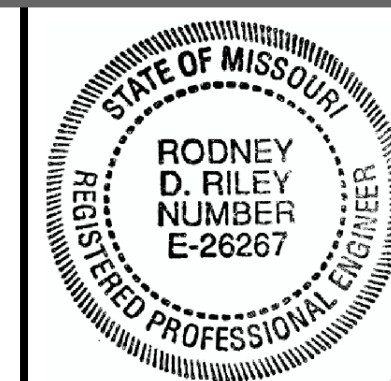
The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Ultra-High-Performance Concrete.

DIAPHRAGM - END BENT 1

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

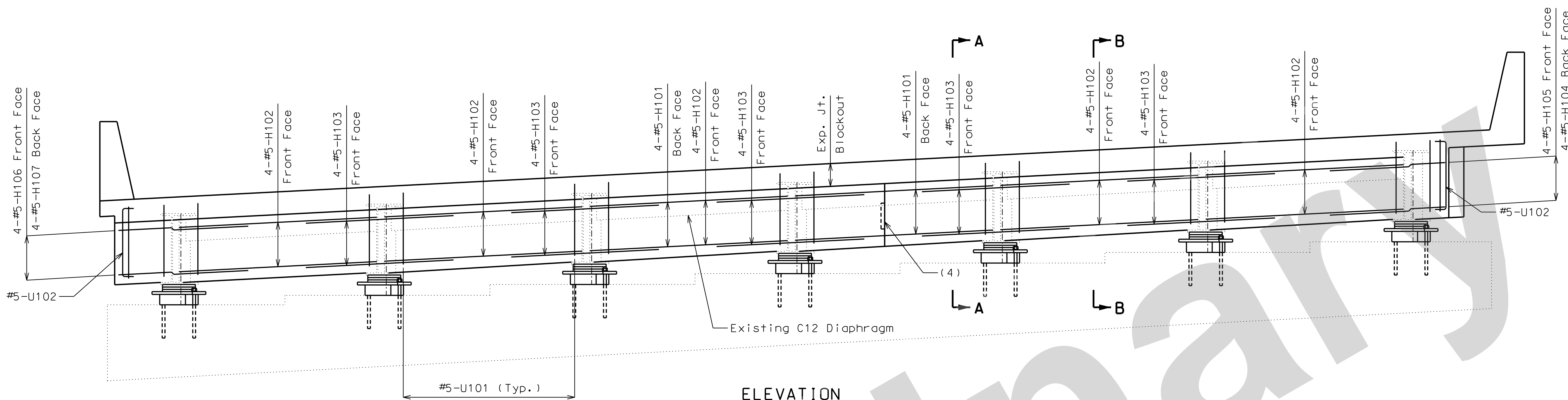
105 WEST CAPITOL JEFFERSON CITY, MO 65102

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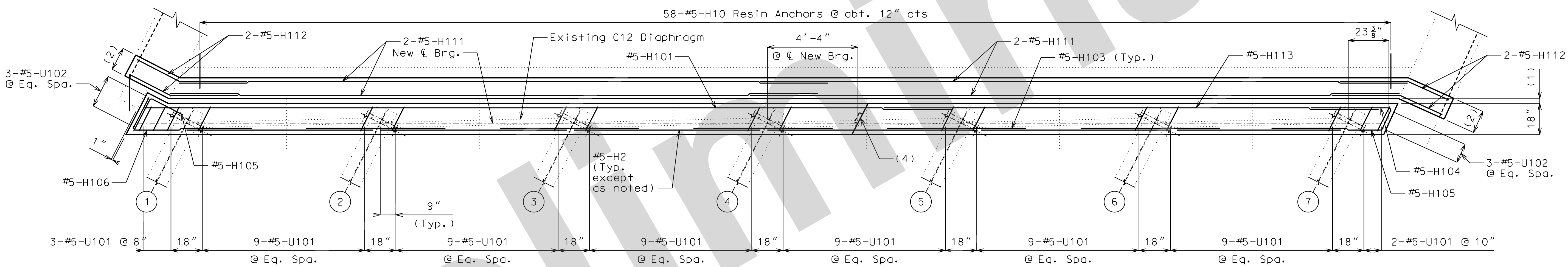
JACOBS GROUP

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

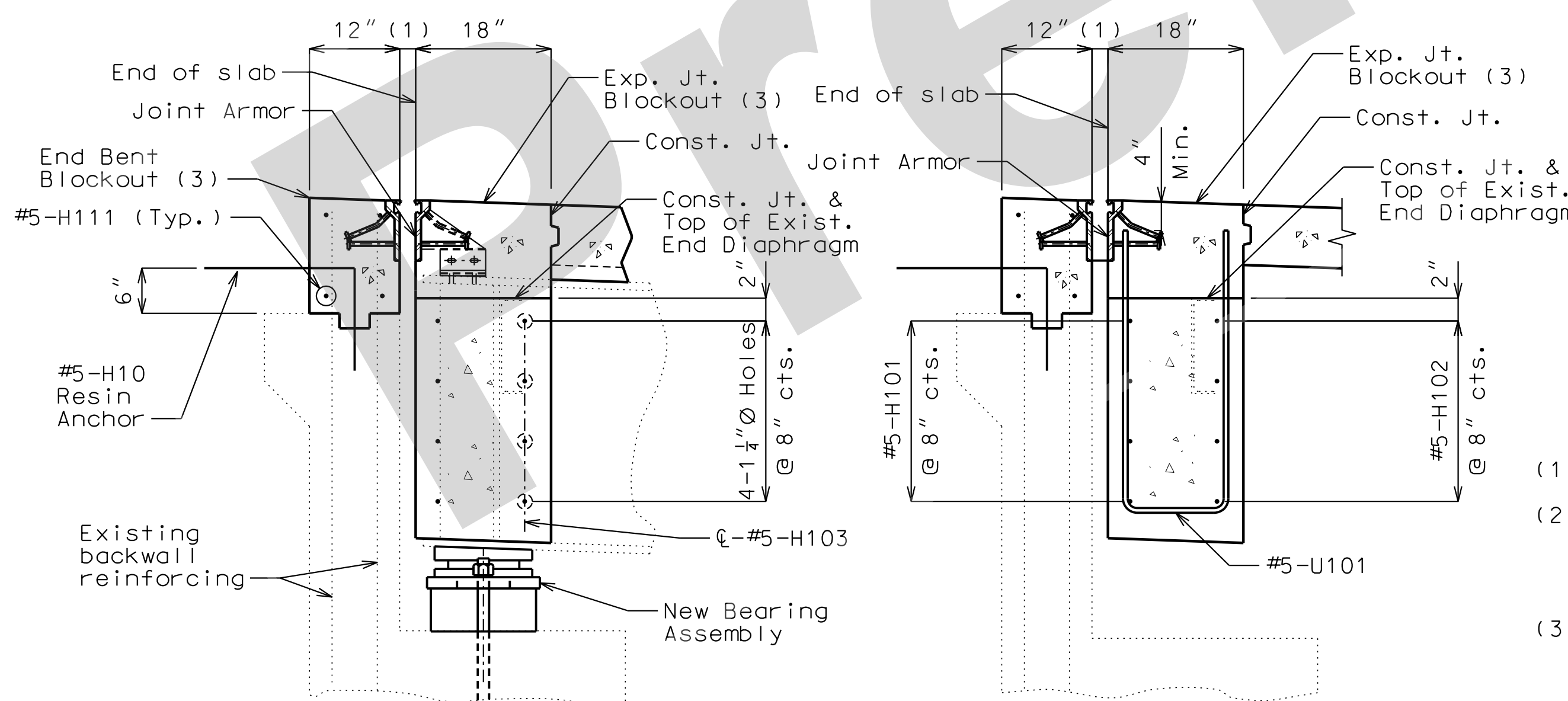
CERTIFICATE OF AUTHORITY #00704



ELEVATION



PLAN



SECTION A-A

SECTION B-B

DIAPHRAGM - END BENT 9

- (1) See "Strip Seal Expansion Joint System at End Bents".
- (2) Remove portion of Existing Wingwall to extend End Bent Blockout to edge of slab. Existing reinforcing shall be cleaned, straightened, and incorporated into blockout.
- (3) Concrete for blockouts (above construction joint) shall be Ultra High Performance Concrete (UHPC), see special provisions.
- (4) Optional Keyed Construction Joint 14"x2"x6"

Notes:

For existing End Bent 9 and girder spacing details see As-Built Plans, see Sheets No. 12 of 34.

Top of backwall for End Bent No. 9 shall be formed to the slope and grade of the roadway. Backwall above the upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

All concrete below the upper construction joint shall be Class B-2 Concrete.

All concrete and reinforcement in the concrete diaphragm at the end bents is included in the Estimated Quantities for Slab on Steel.

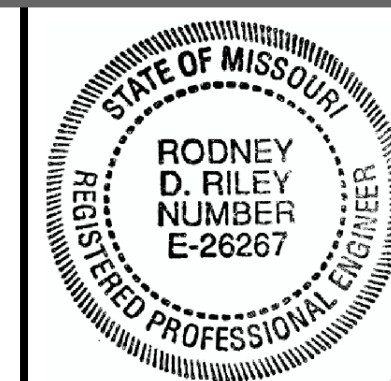
For details and notes for #5-H10 Resin Anchors, see Sheet No. 7.

Work this sheet with Sheet No. 6.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

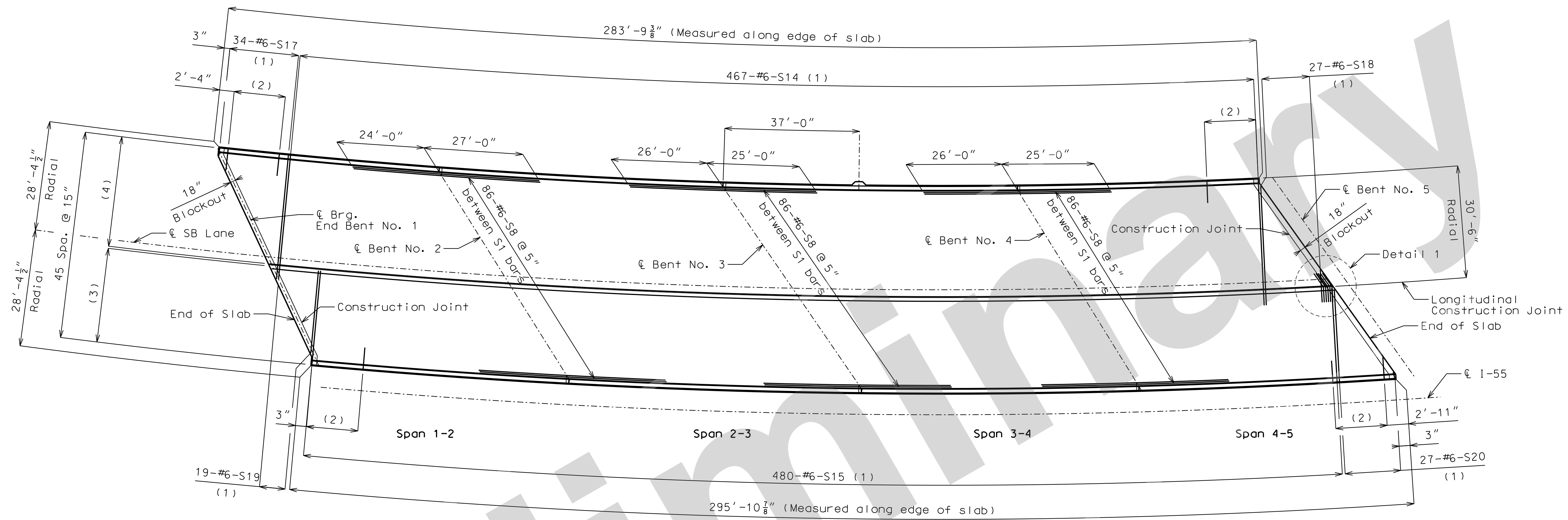
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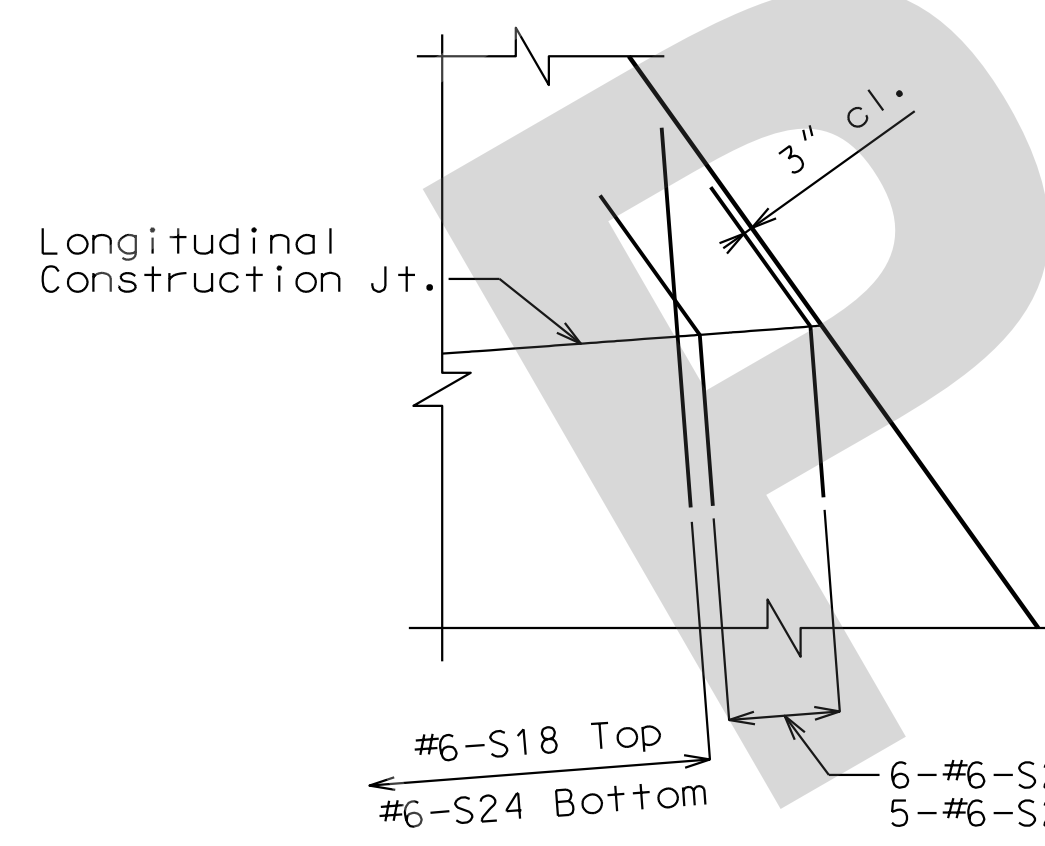
CERTIFICATE OF AUTHORITY #00704

REV.

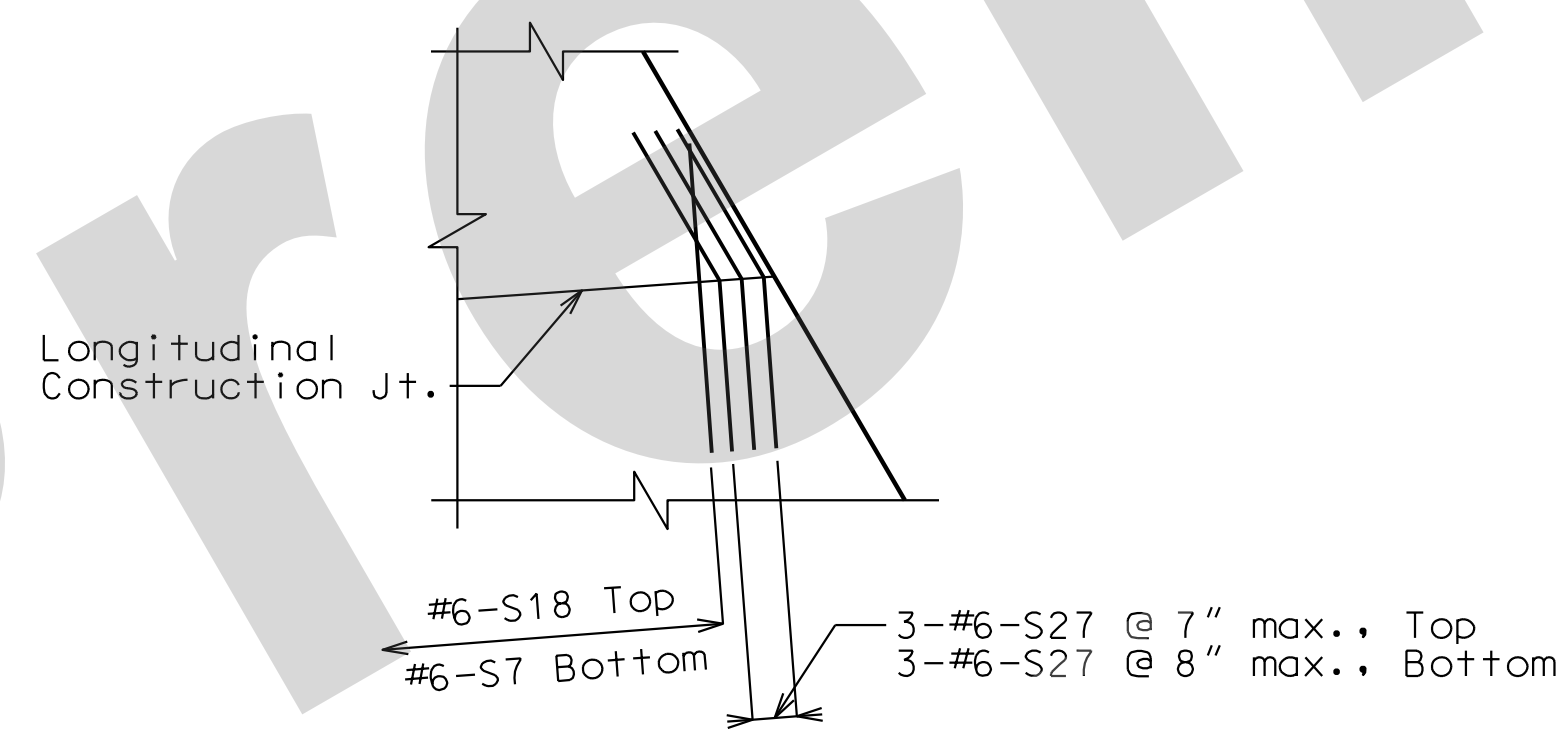


PART PLAN SHOWING TOP SLAB REINFORCEMENT - UNIT 1

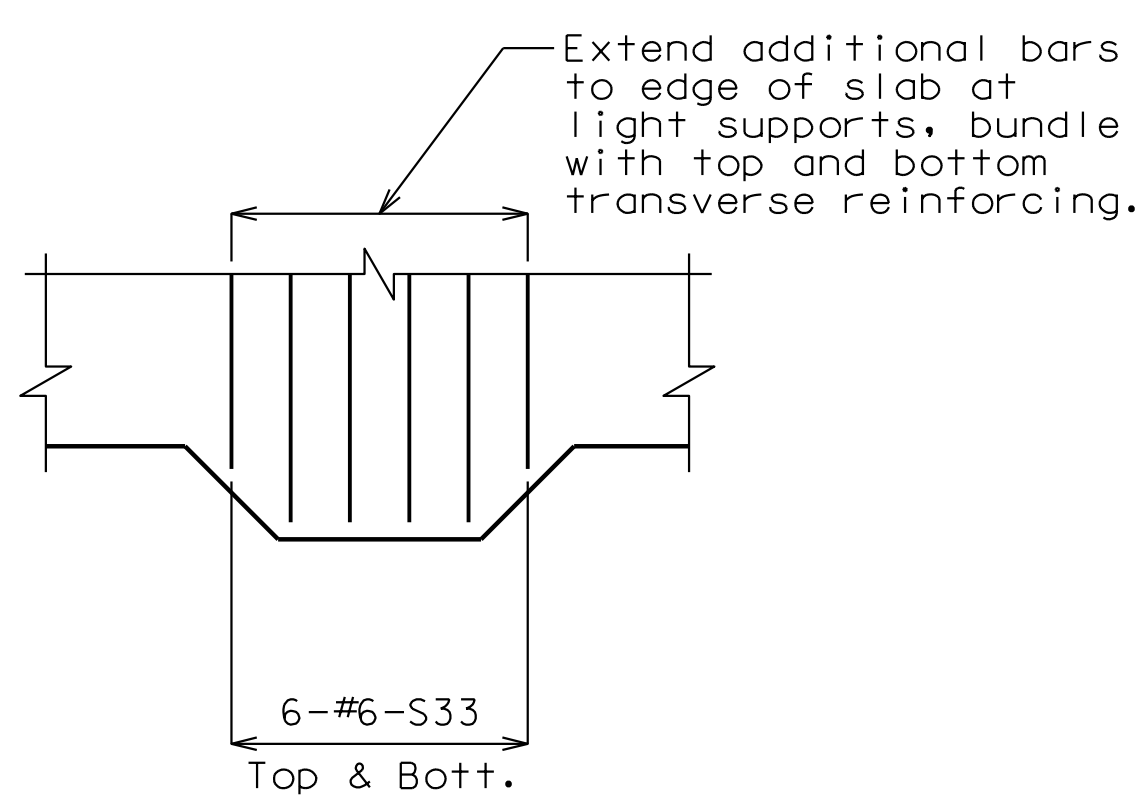
- (1) Spaced radially at 7" max.
- (2) 13-#6-S22, bundle with every other top bar at 14" spacing
- (3) 5 Units of 22-#5-S1 and 1 unit of 22-#5-S3
- (4) 5 Units of 25-#5-S1 and 1 unit of 25-#5-S2



DETAIL 1



DETAIL 2



DETAIL AT LIGHT SUPPORTS

For additional light support details see barrier drawings

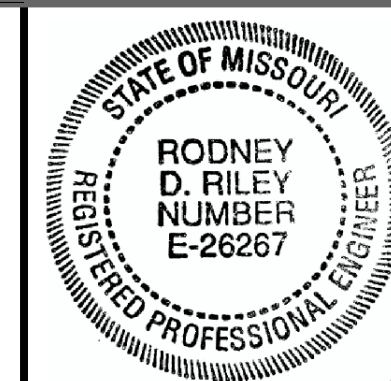
Notes:

- Longitudinal slab dimensions are measured horizontally.
- For Section thru Slab and longitudinal reinforcement, spacing, see Sheet No. 1.
- For location of slab drains, see Sheet No. 8.
- For details of safety barrier curb, see Sheets No. 17 thru 21.
- For details of expansion devices, see Sheets No. 9 & 10.
- For minimum lap lengths for bar splices, see table on Sheet No. 1.
- For slab construction joint details, see Sheet No. 14.
- Work this sheet with Sheet No. 12.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 11 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 12

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

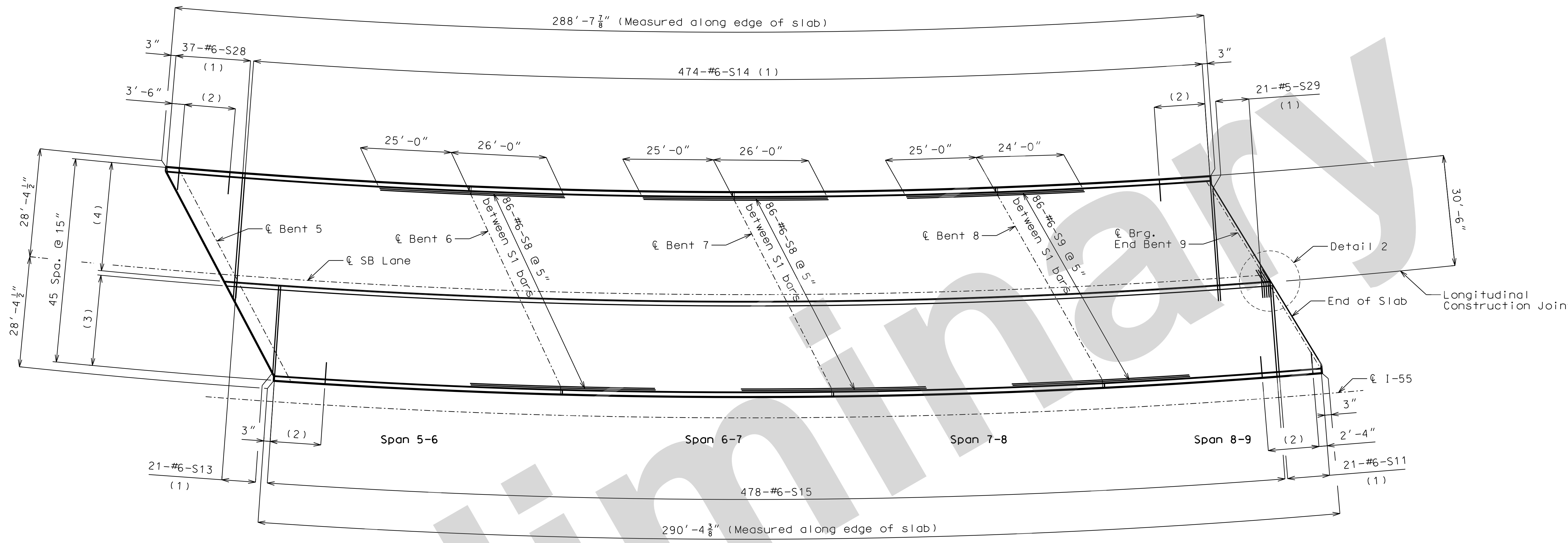
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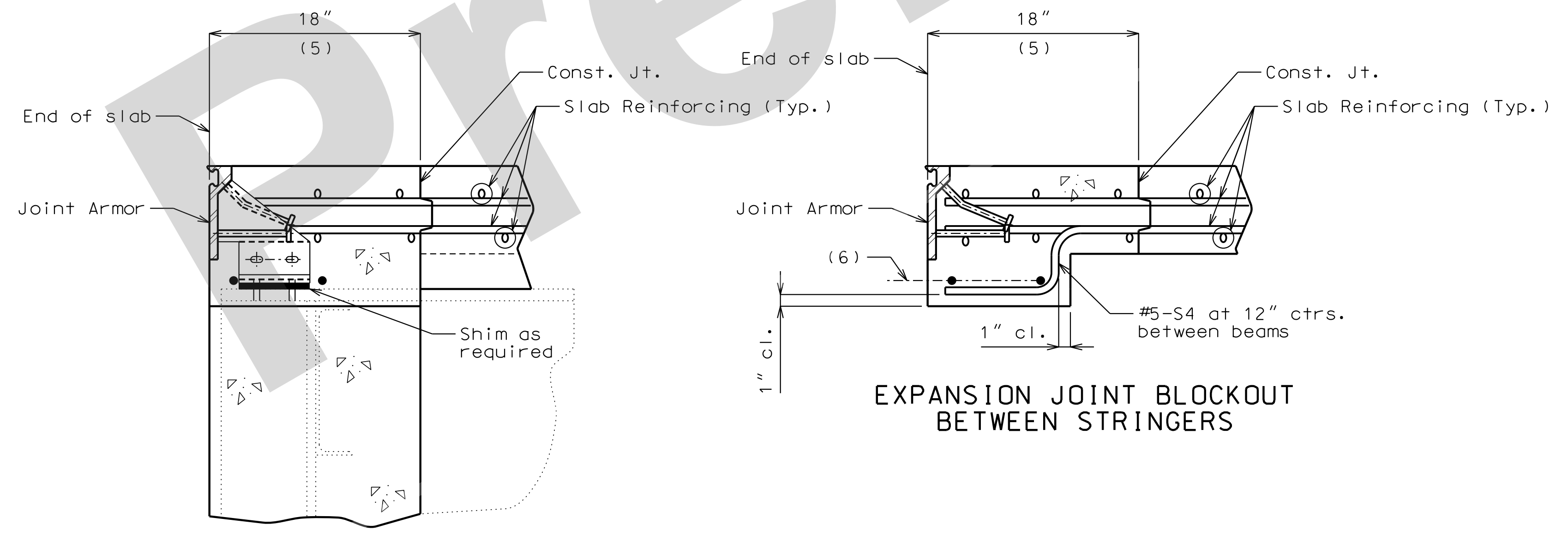
CERTIFICATE OF AUTHORITY #00704

REV.



PART PLAN SHOWING TOP SLAB REINFORCEMENT - UNIT 2

- (1) Spaced radially at 7" max.
- (2) 13-#6-S22, bundle with every other top bar at 14" spacing
- (3) 5 Units of 22-#5-S1 and 1 unit of 22-#5-S3
- (4) 5 Units of 25-#5-S1 and 1 unit of 25-#5-S2
- (5) Ultra-High Performance Concrete (UHPC), see Special Provisions
- (6) 2 units of 2-#6-S30 (End Bent 1)
2 units of 2-#6-S31 (Near Bent 5 each side)
2 units of 2-#6-S32 (End Bent 9)
Bars placed parallel to end of slab.



EXPANSION JOINT BLOCKOUT AT STRINGERS

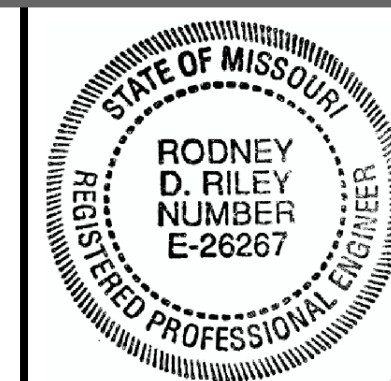
EXPANSION JOINT BLOCKOUT BETWEEN STRINGERS

Notes:
 Longitudinal slab dimensions are measured horizontally.
 For Section thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 For location of slab drains, see Sheet No. 8.
 For details of safety barrier curb, see Sheets No. 17 thru 21.
 For details of expansion devices, see Sheets No. 9 & 10.
 For minimum lap lengths for bar splices, see table on Sheet No. 1.
 For slab construction joint details, see Sheet No. 14.
 Work this sheet with Sheet No. 11.

Detailed June 2021
 Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 14

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

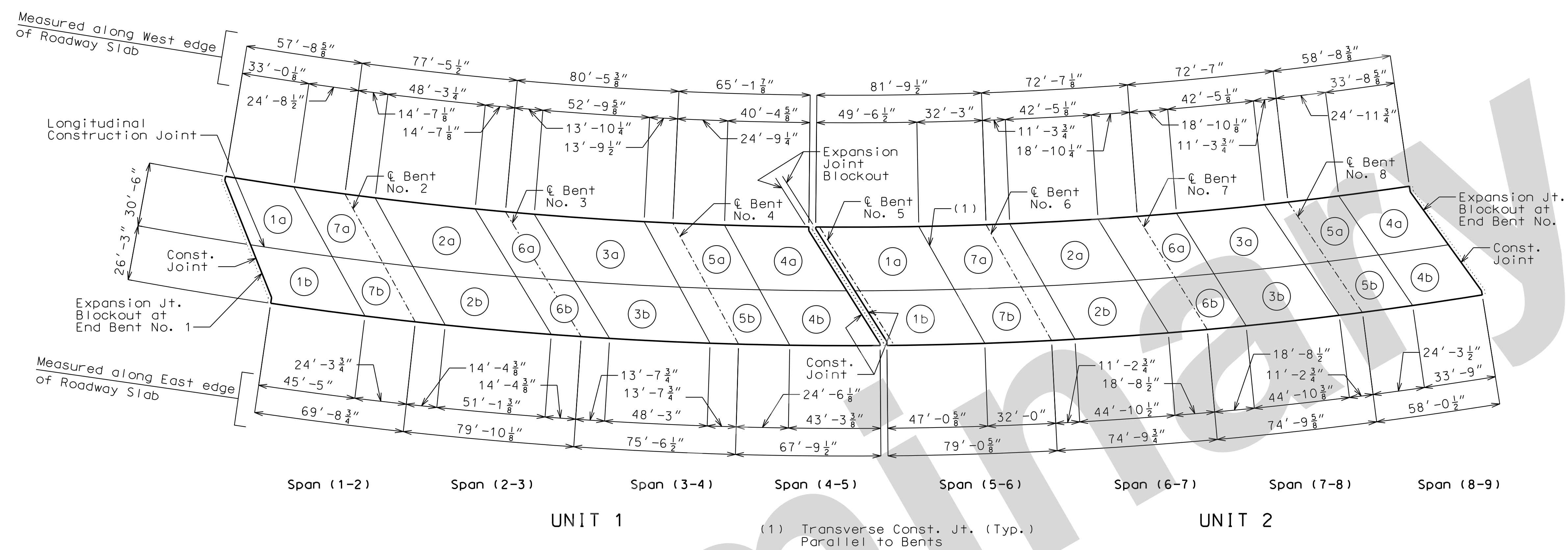
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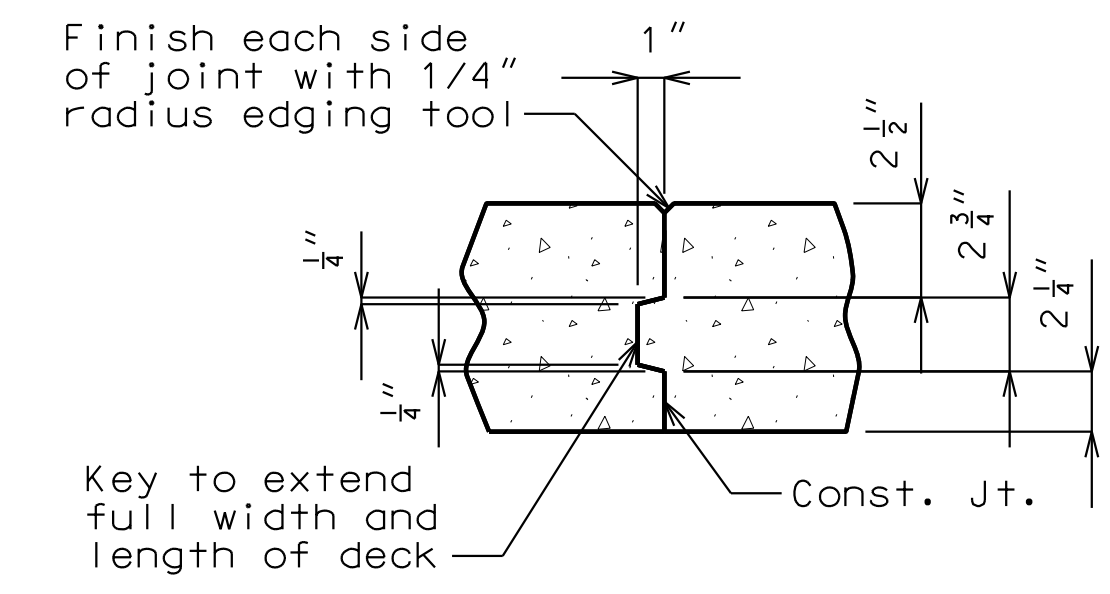
CERTIFICATE OF AUTHORITY #00704

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(1) Transverse Const. Jt. (Typ.) Parallel to Bents

	Sequence of Pours Unit 1							Min. Rate of Pour Cu. Yds. / Hr.								
	Direction							With Retarder		Without Retarder						
	1	2	3	4	5	6	7	a	b	a	b					
Basic Sequence	Either Direction							25	25	25	25					
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.																
Alternate A Pours	1	7 + 2	6 + 3	5 + 4								25	25	29	25	
	End to 7		1 to 6		2 to 5		3 to End									
Alternate B Pours	1 + 7 + 2		6 + 3		5 + 4							25	25	29	25	
	End to 6		2 to 5		3 to End											
Alternate C Pours	1 + 7 + 2		6 + 3 + 5 + 4							25	25	29	25			
	End to 6		2 to End													
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4												25	25	29	25
	End to End															



SLAB CONSTRUCTION JOINT

	Sequence of Pours Unit 2							Min. Rate of Pour Cu. Yds. / Hr.								
	Direction							With Retarder		Without Retarder						
	1	2	3	4	5	6	7	a	b	a	b					
Basic Sequence	Either Direction							25	25	25	25					
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.																
Alternate A Pours	1	7 + 2	6 + 3	5 + 4								25	25	27	25	
	End to 7		1 to 6		2 to 5		3 to End									
Alternate B Pours	1 + 7 + 2		6 + 3		5 + 4							25	25	27	25	
	End to 6		2 to 5		3 to End											
Alternate C Pours	1 + 7 + 2		6 + 3 + 5 + 4							25	25	27	25			
	End to 6		2 to End													
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4												25	25	27	25
	End to End															

Notes:

For General Notes, see Sheets No. 1 and 2.

The contractor shall pour and satisfactorily finish the slab pour at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

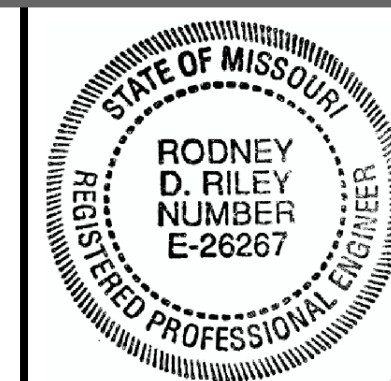
The longitudinal construction joints may be omitted with the approval of the engineer. When the longitudinal construction joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.7.

SLAB POURING SEQUENCE

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 15

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

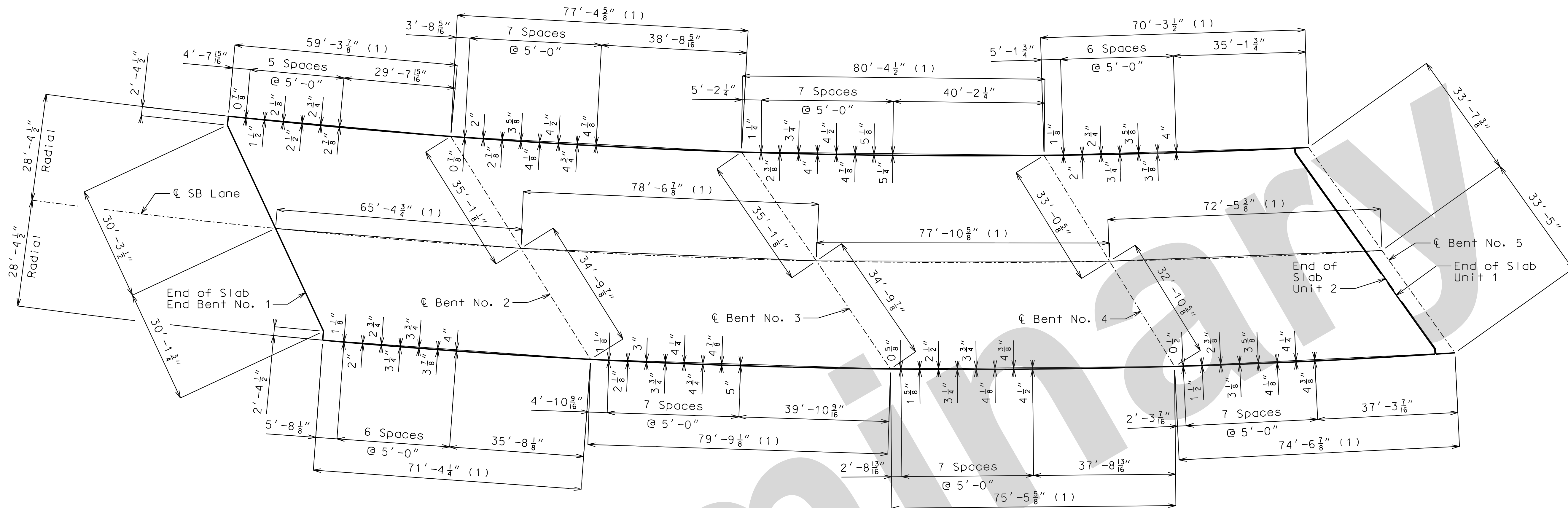
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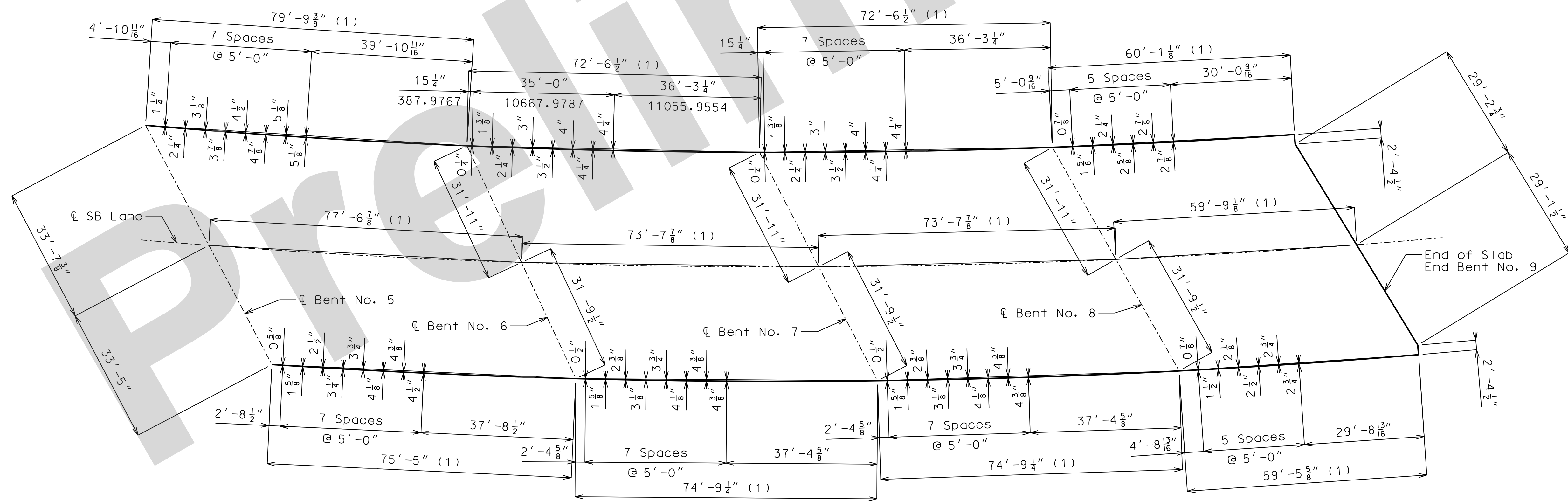
JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

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PLAN - UNIT 1



PLAN - UNIT 2

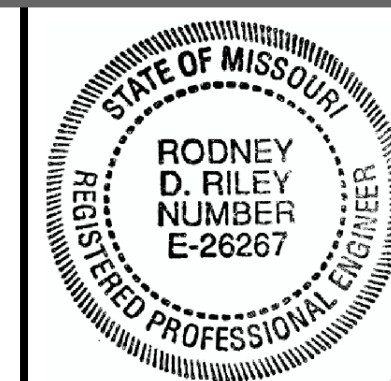
(1) Chord Length
Note: All dimensions shown are horizontal.

SLAB CURVE ORDINATES

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 16

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

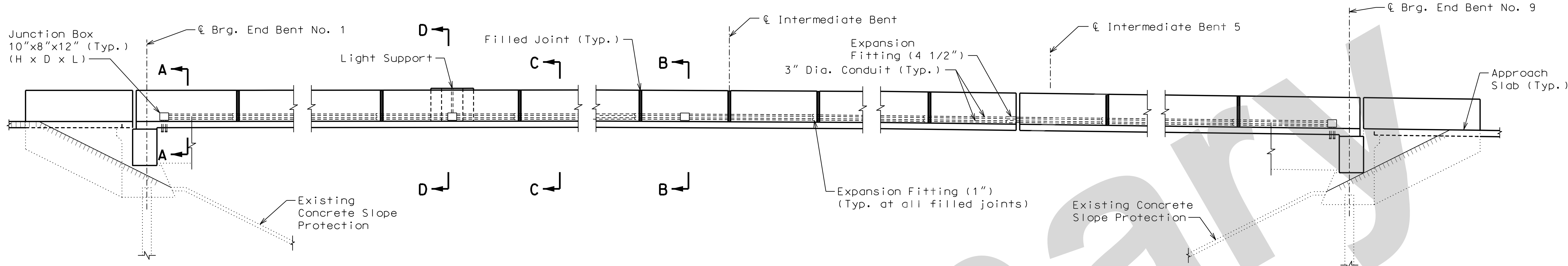
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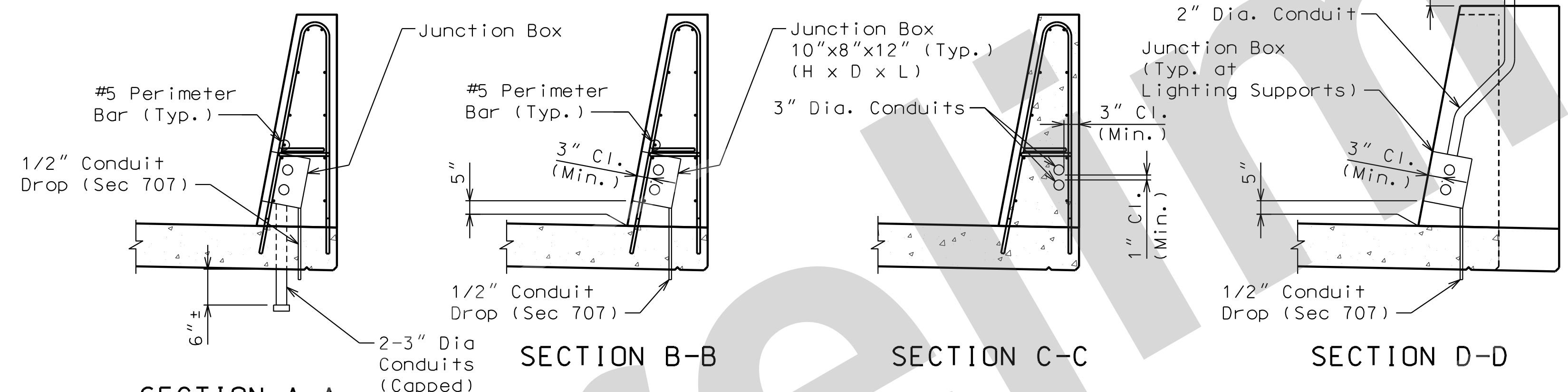
JACOBS CONSULTING GROUP ST. LOUIS, MISSOURI 63102-2121

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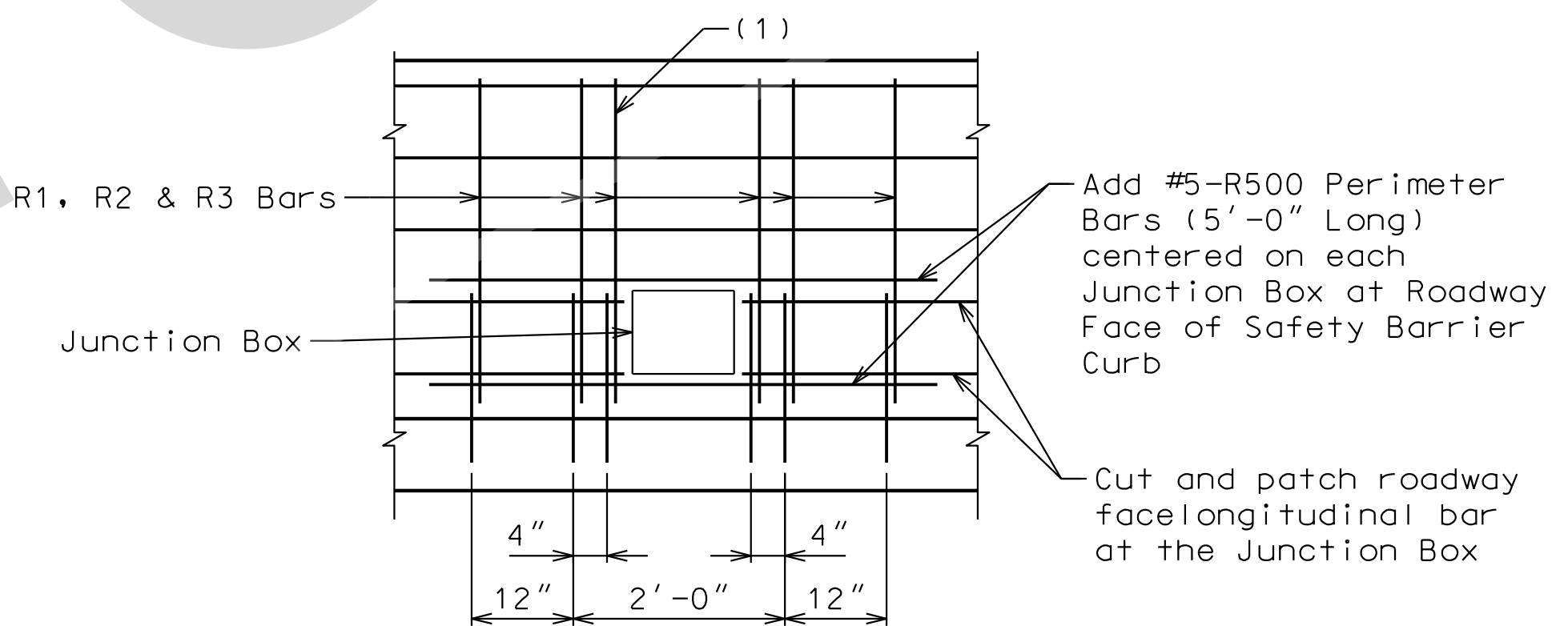


PART ELEVATION OF LEFT BARRIER CURB SHOWING LOCATION OF CONDUIT



(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers and shift bars to clear Junction Boxes.

Note: Light Support reinforcing not shown, see Sheet 17



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements.

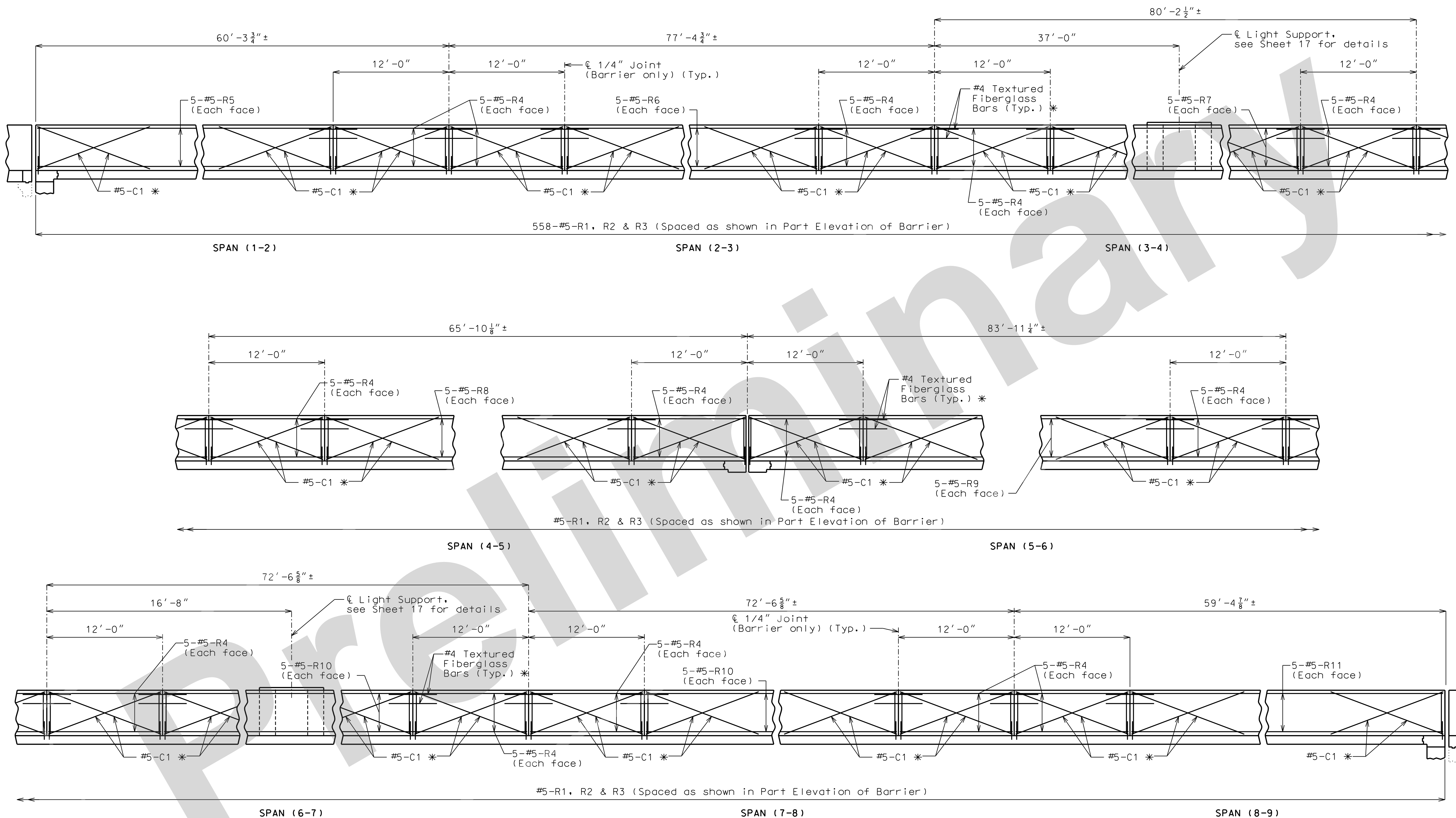
The Bill of Reinforcing Steel includes 10 extra R1, R2 and R3 bars for placement at Junction Boxes, 2 per Junction Box.

DETAILS OF CONDUIT SYSTEM

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 24



SECTION NEAR LEFT BARRIER CURB

Notes:
 Horizontal dimensions are measured from along outside face of barrier.
 Conduits not shown for clarity.
 Work this sheet with Sheets No. 17 and 19.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 18 of 24



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 18

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

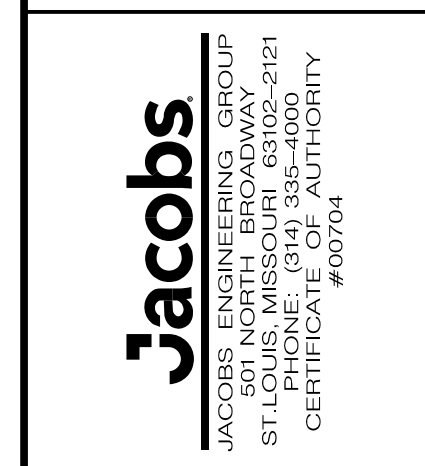
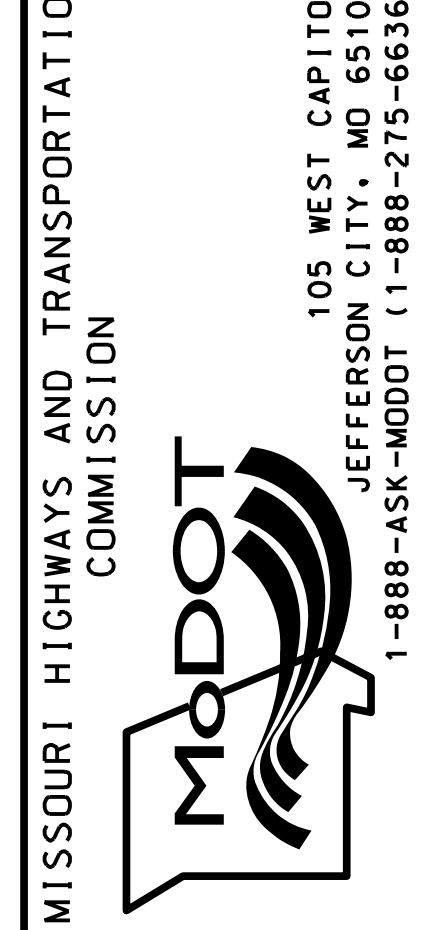
PROJECT NO.

BRIDGE NO. A10853

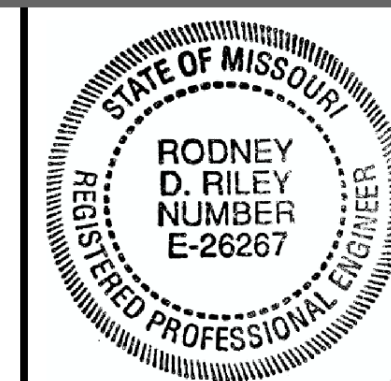
DESCRIPTION

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 19

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

ModOT logo

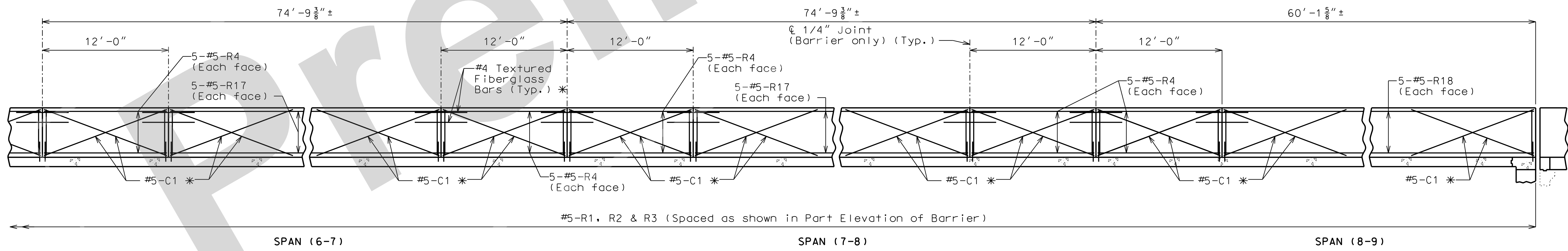
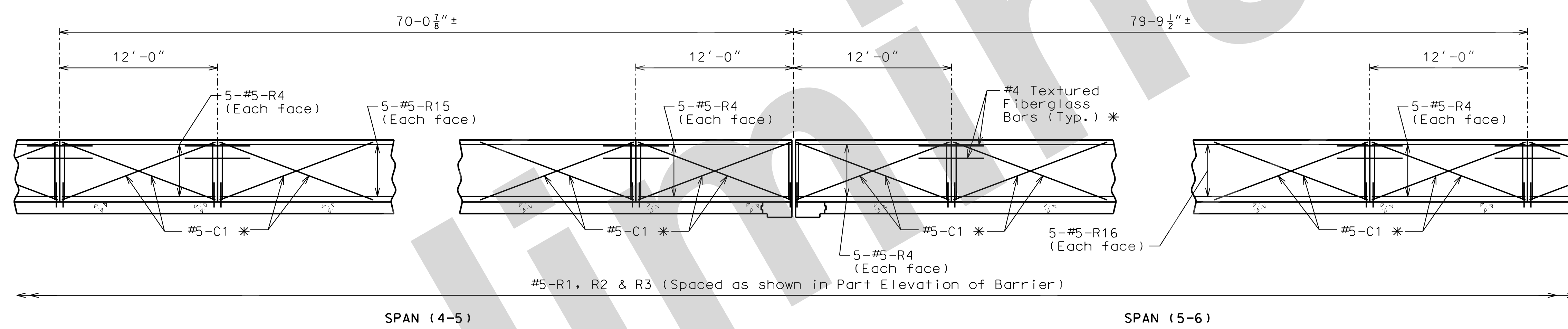
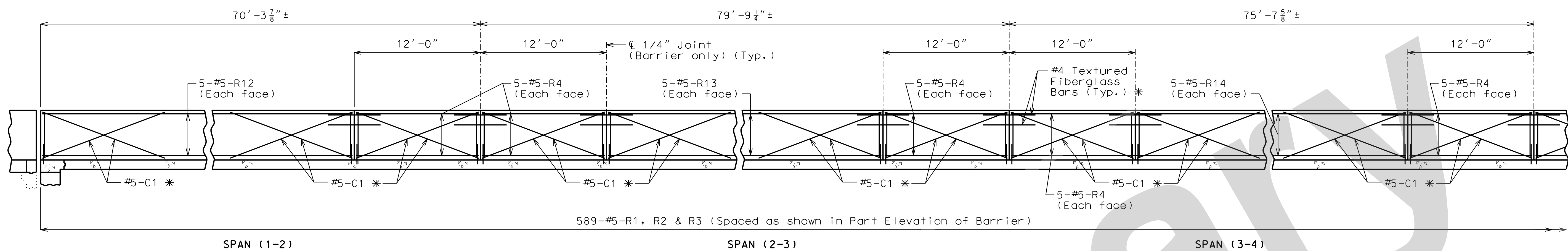
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JACOBS ENGINEERING GROUP

901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

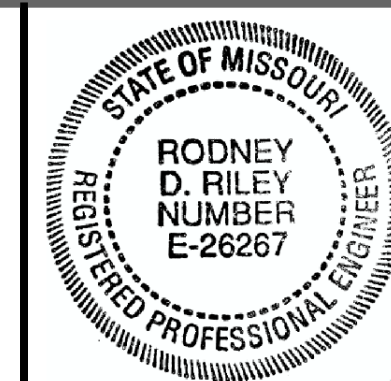
CERTIFICATE OF AUTHORITY #00704



ELEVATION OF RIGHT BARRIER CURB

Notes:
 Horizontal dimensions are measured from along outside face of barrier.
 Work this sheet with Sheets No. 17 and 18.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 20

COUNTY ST. LOUIS

JOB NO. J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10853

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

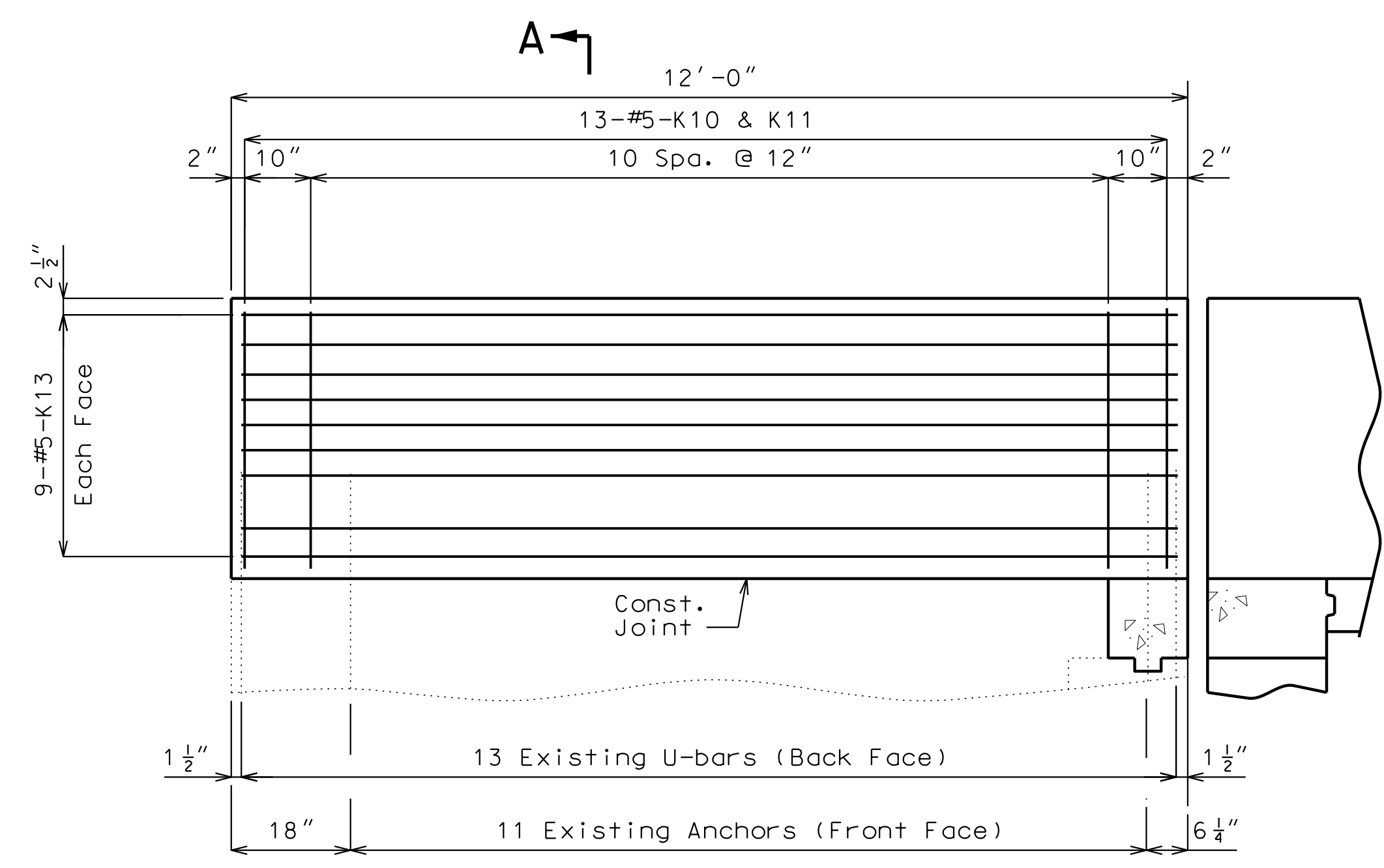
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

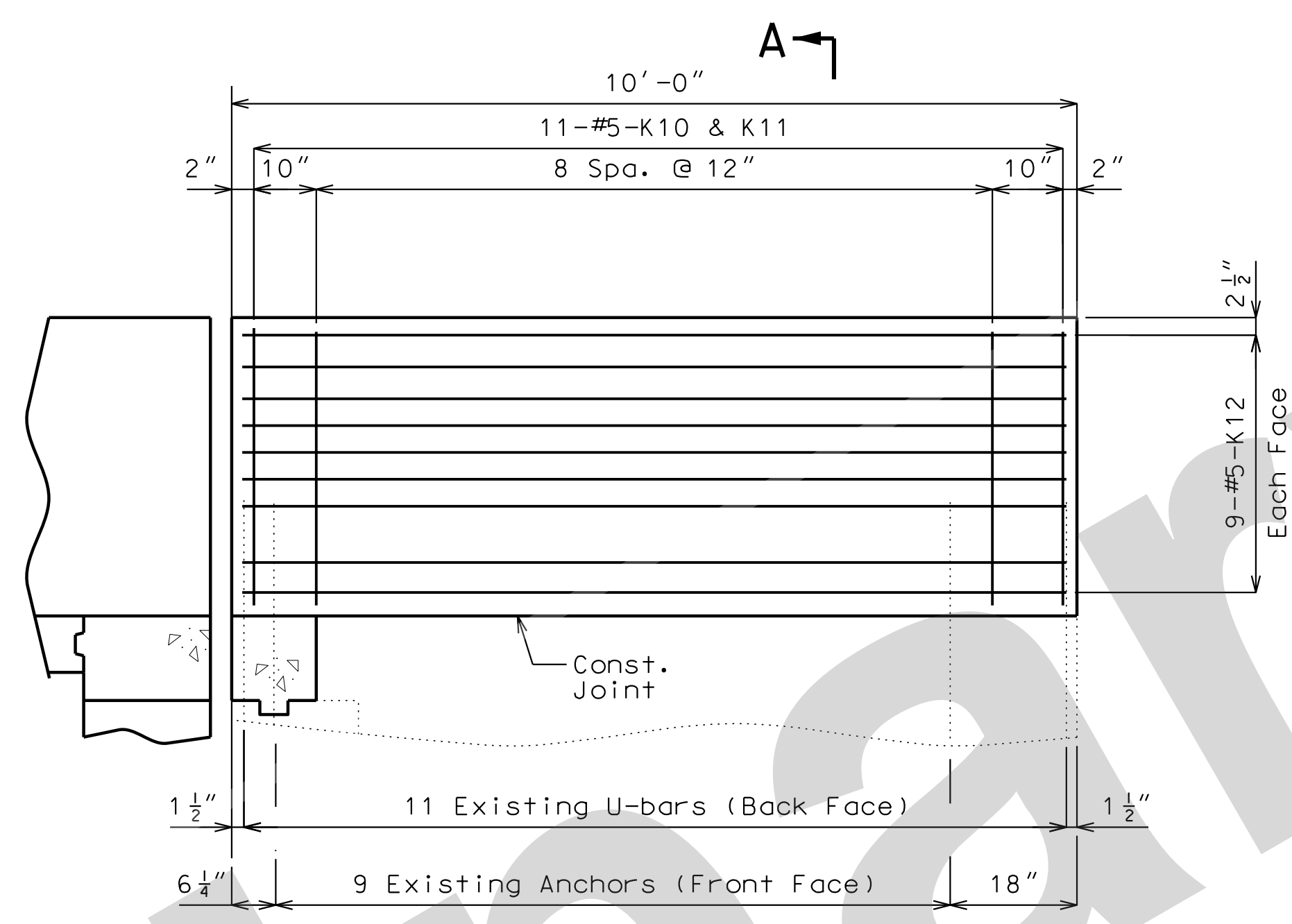
JACOBS ENGINEERING GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

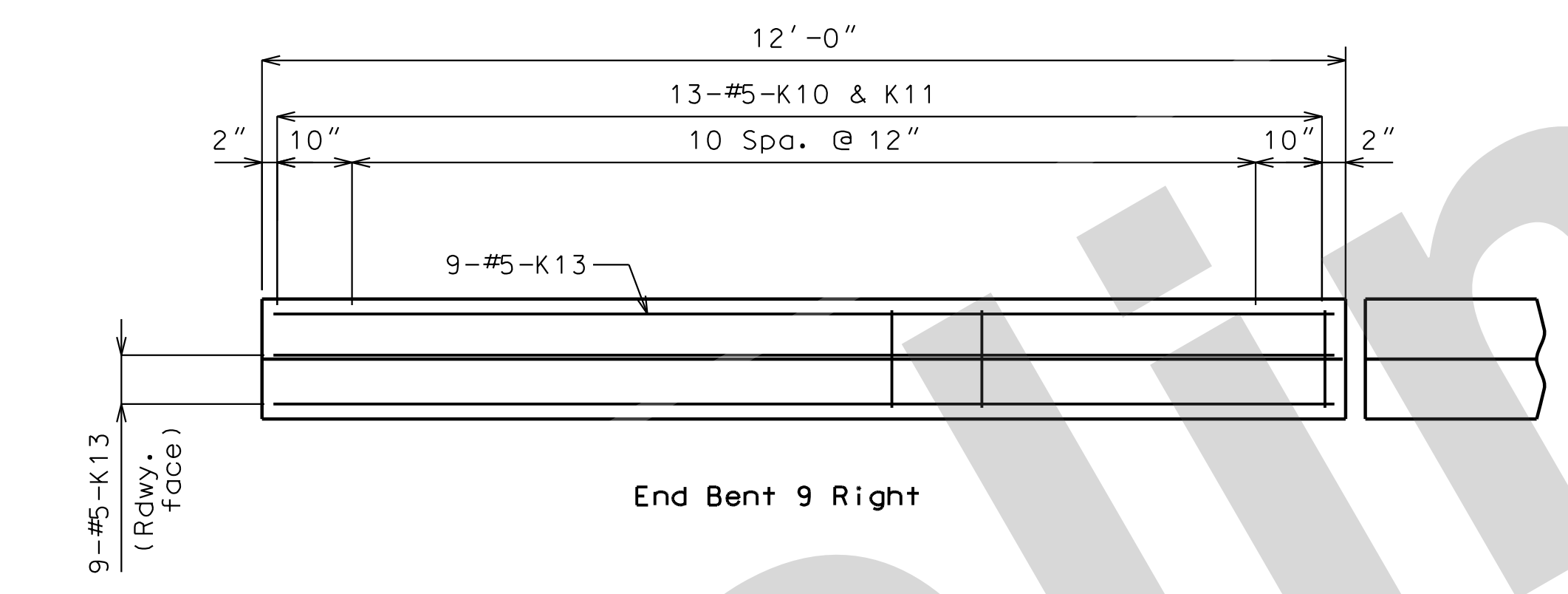
REV.



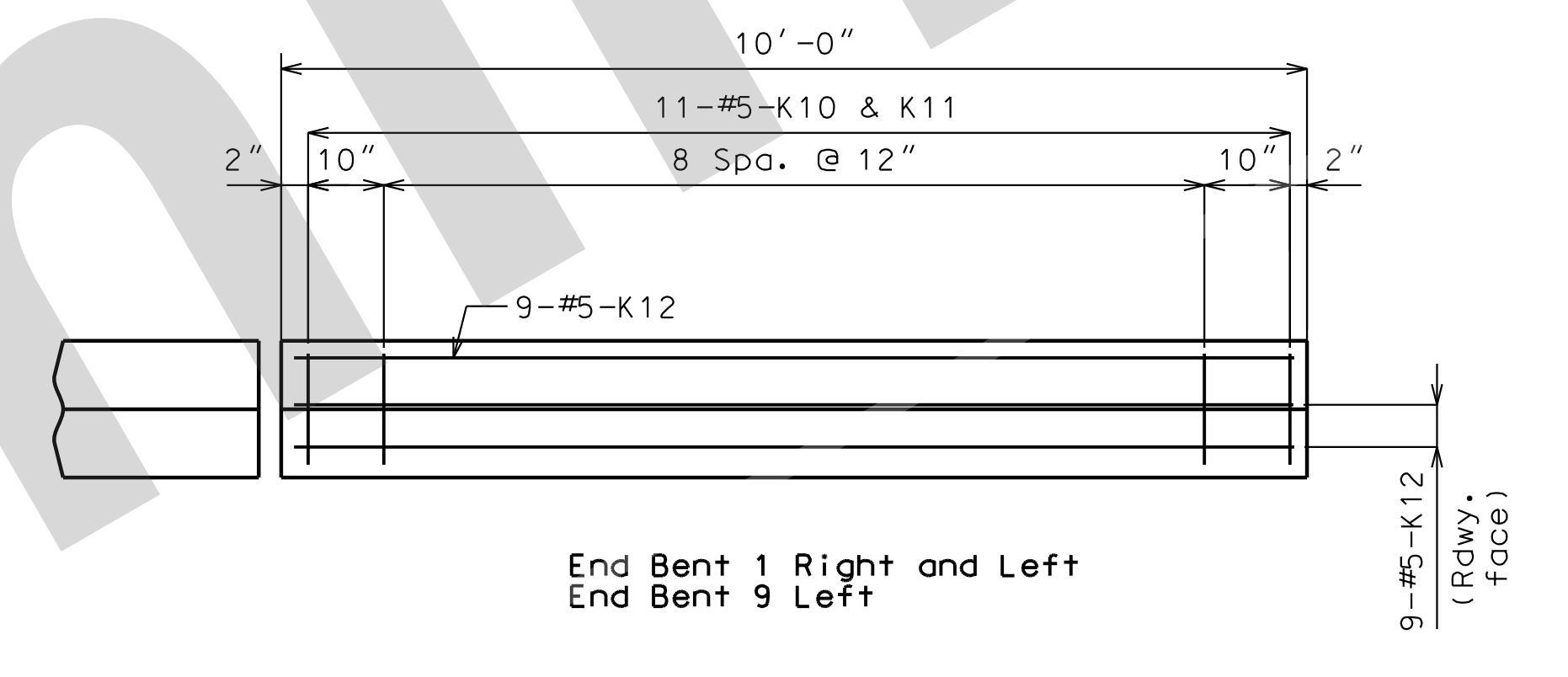
End Bent 9 Right



End Bent 1 Right and Left
End Bent 9 Left

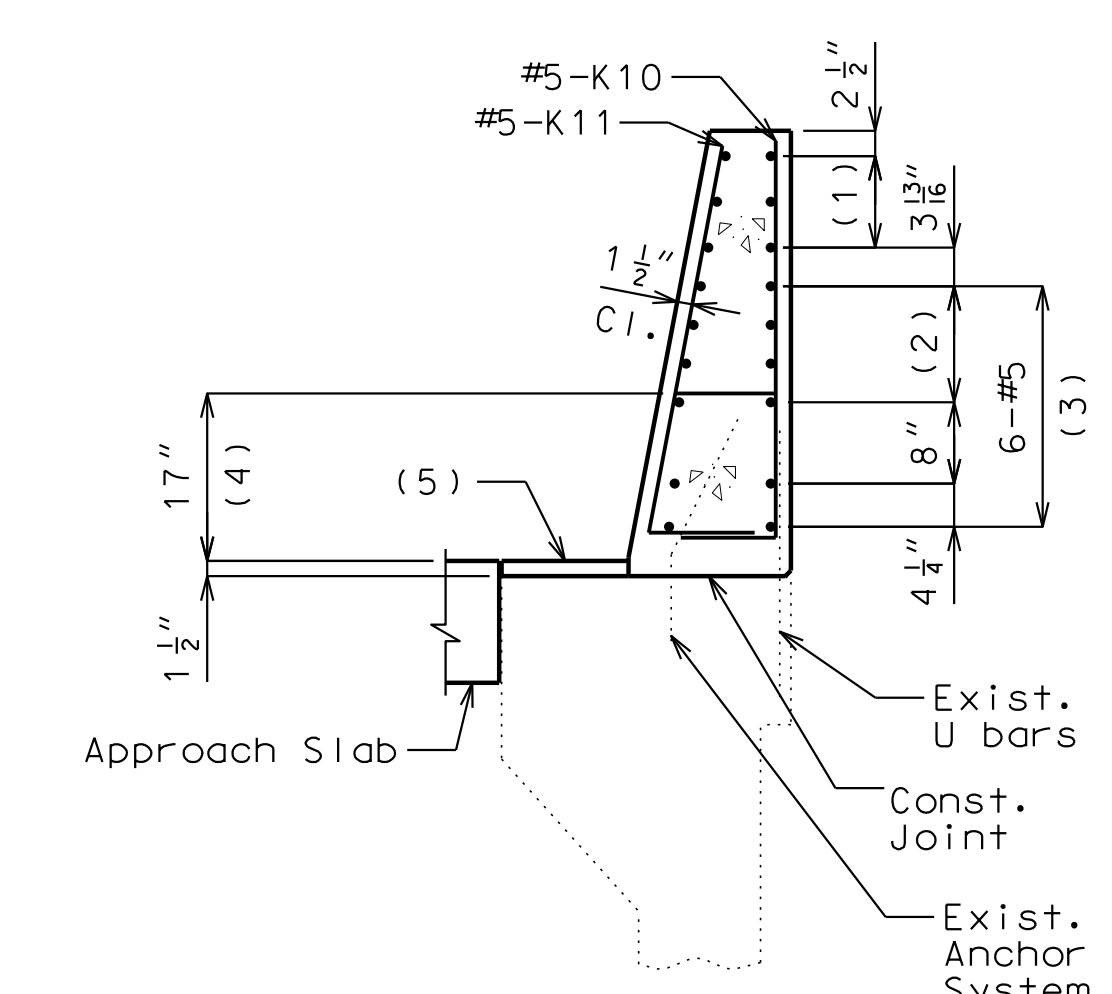


End Bent 9 Right



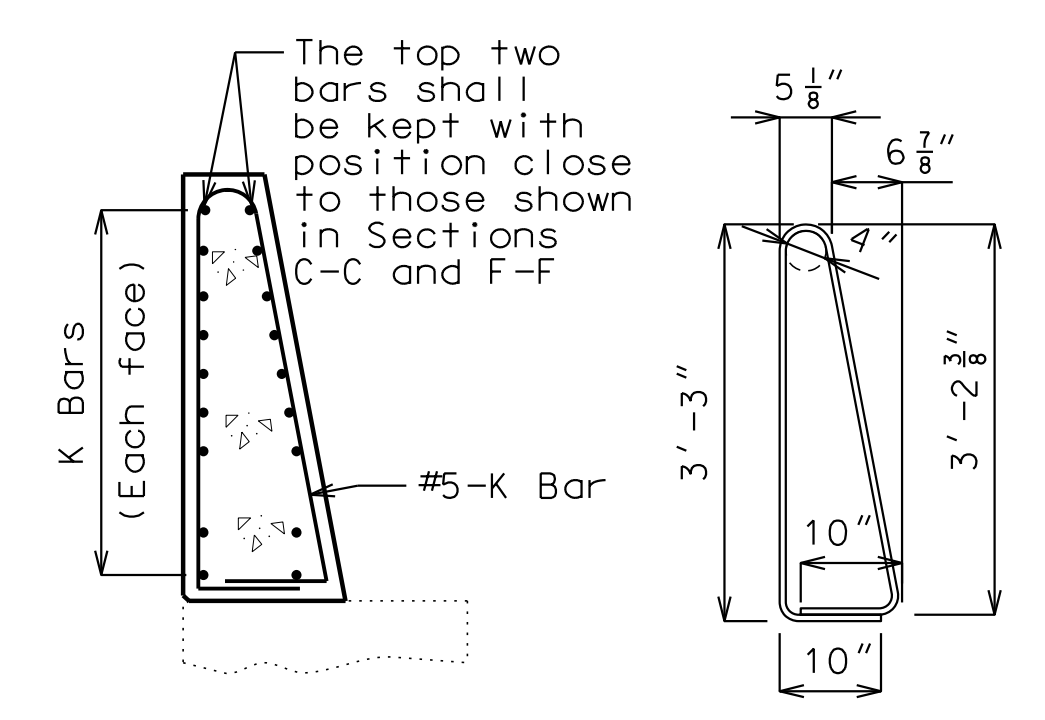
End Bent 1 Right and Left
End Bent 9 Left

PART PLAN



SECTION A-A

- (1) 3-#5-K12 or K13 @ 4 1/2" cts., each face
- (2) 3 spaces @ 3 13/16"
- (3) Spaced as shown, each face
- (4) To top of bar
- (5) UHPC, see Special Provisions



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

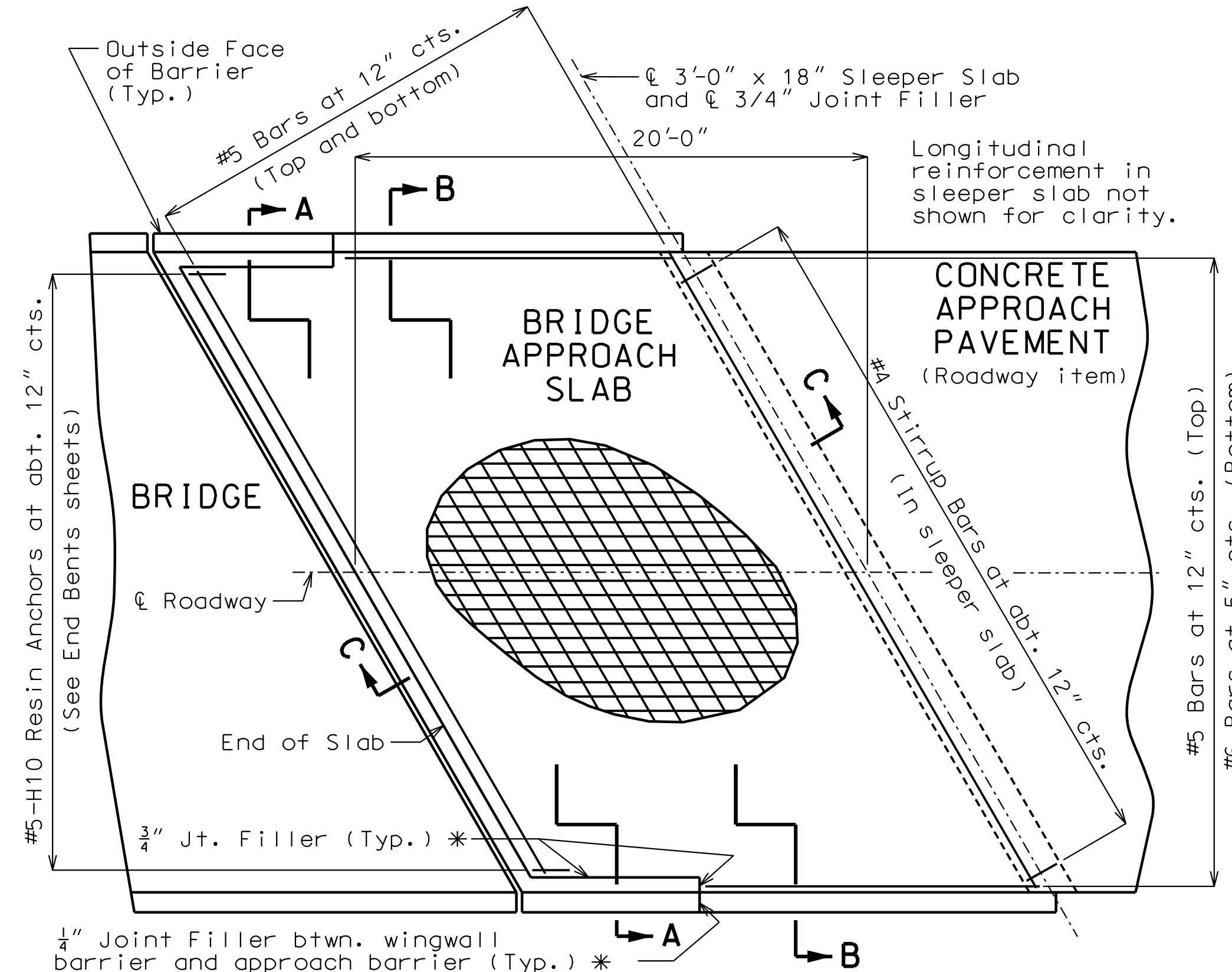
General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

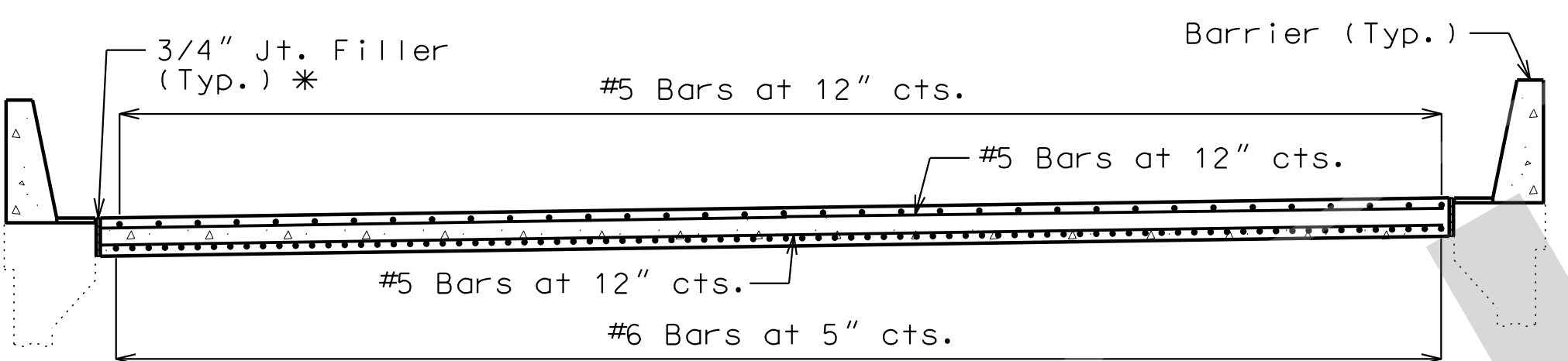
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

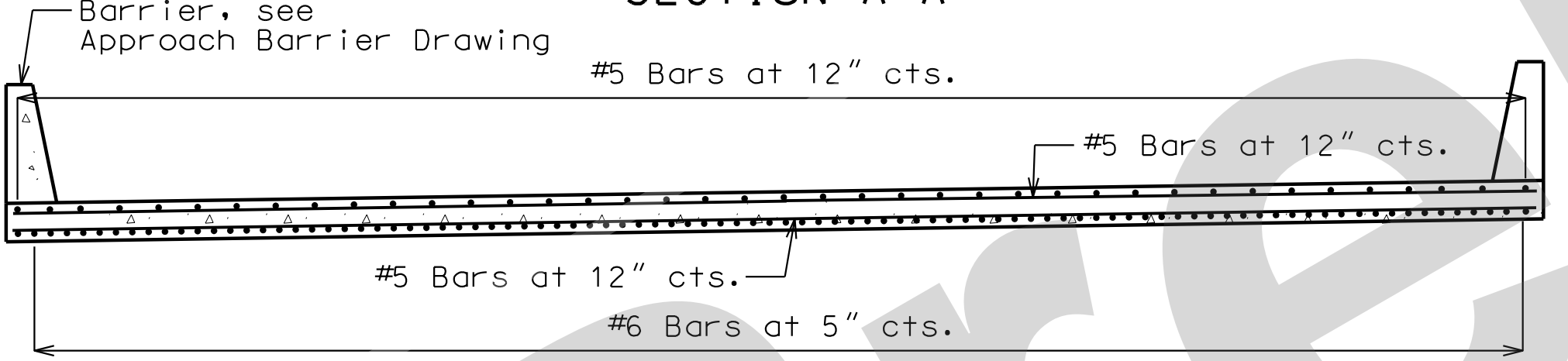
TYPE D BARRIER AT END BENTS



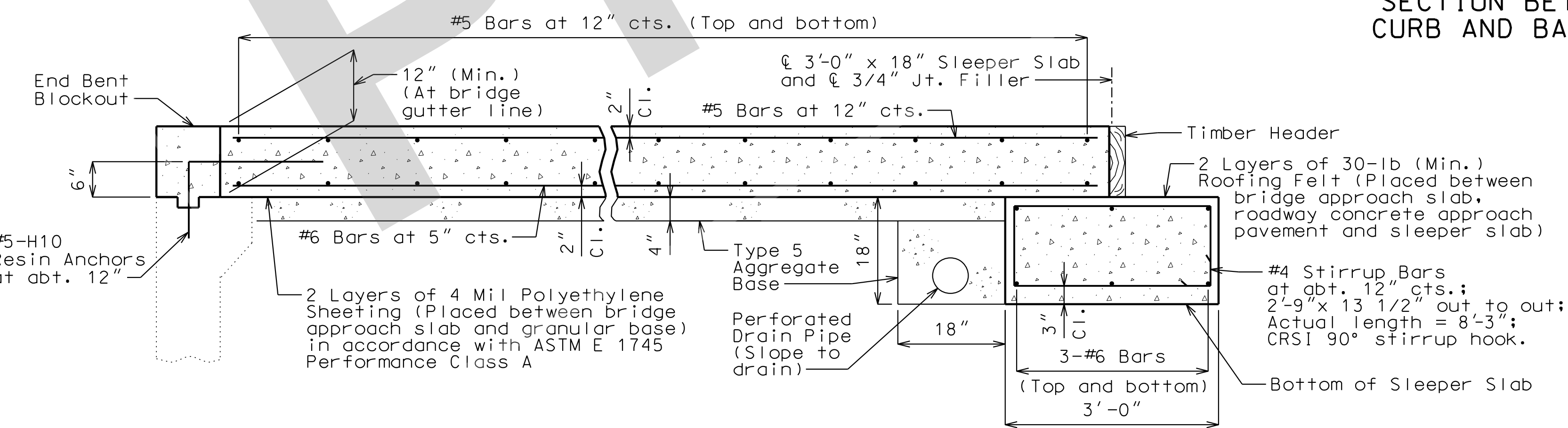
PART PLAN SHOWING REINFORCEMENT



SECTION A-A

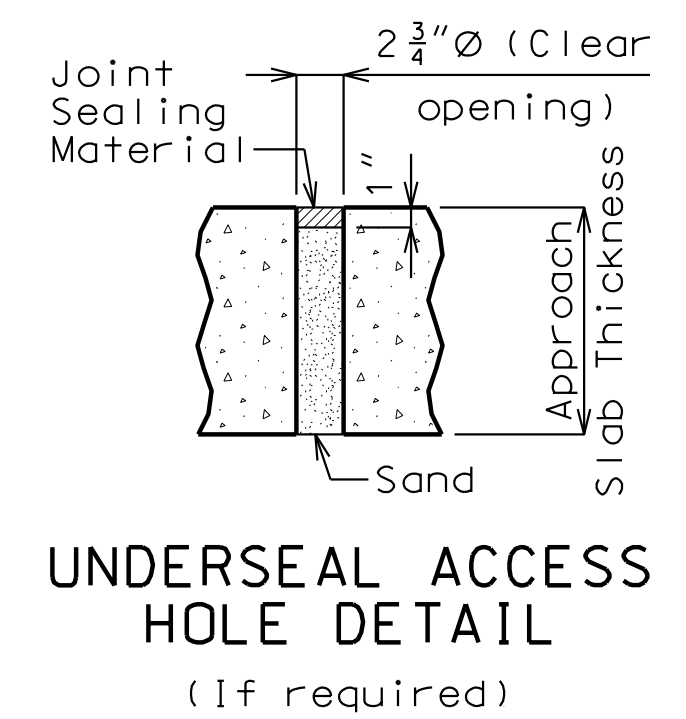


SECTION B-B

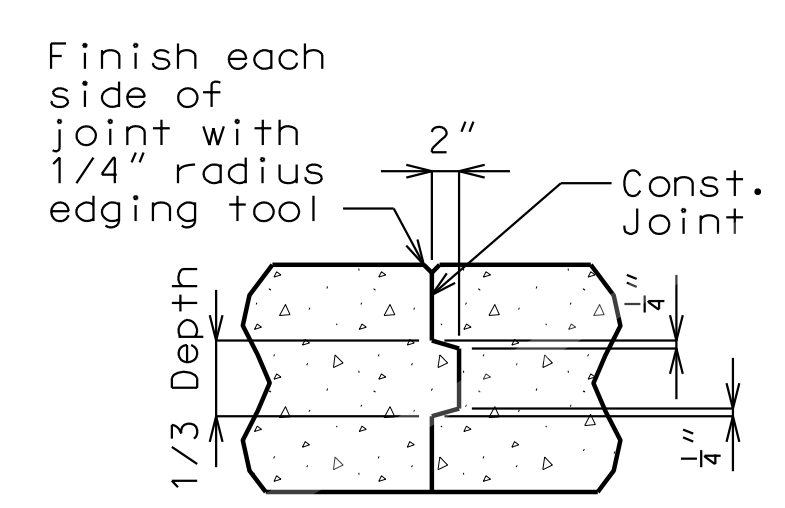


SECTION C-C

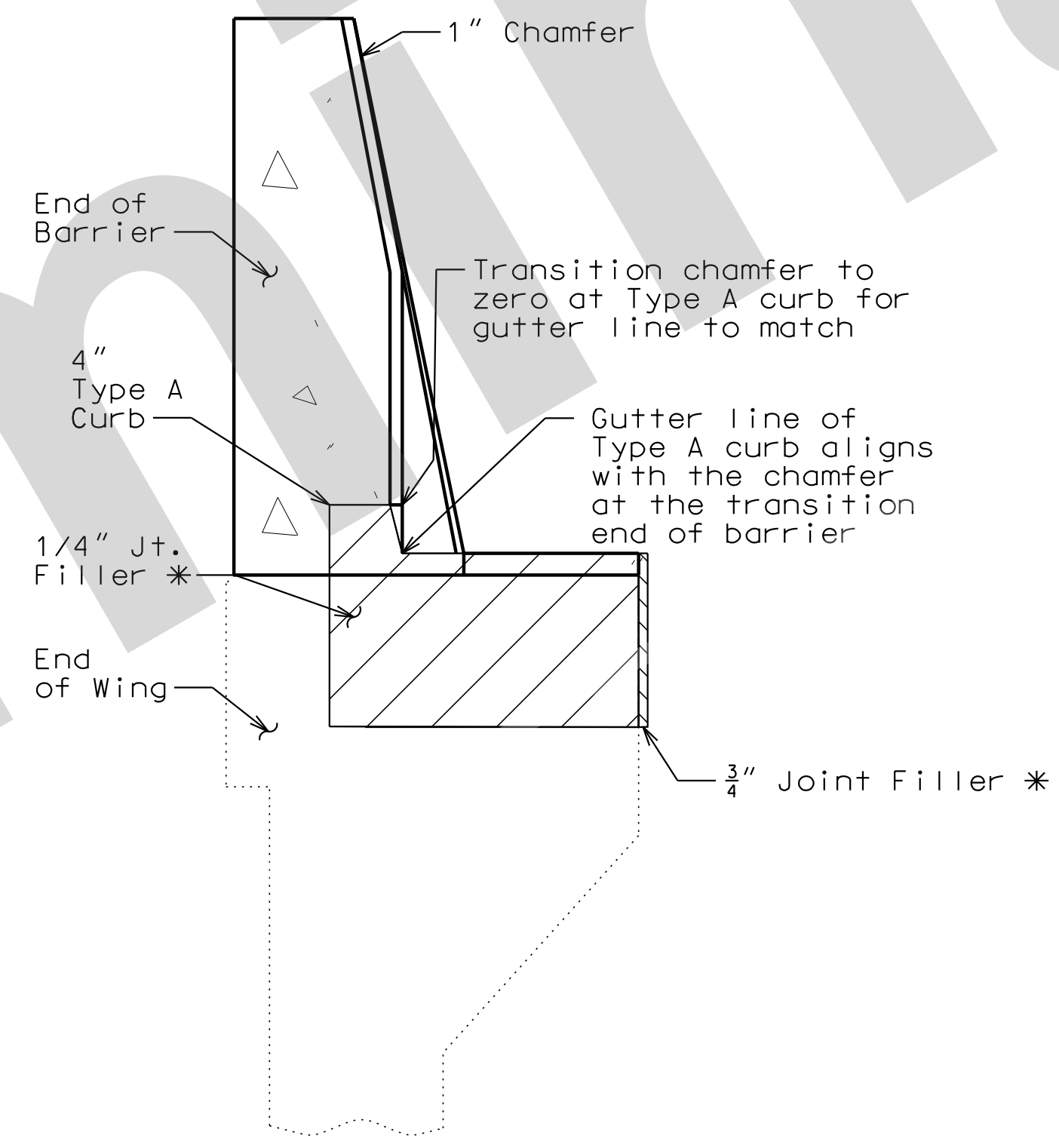
BRIDGE APPROACH SLAB (MAJOR)



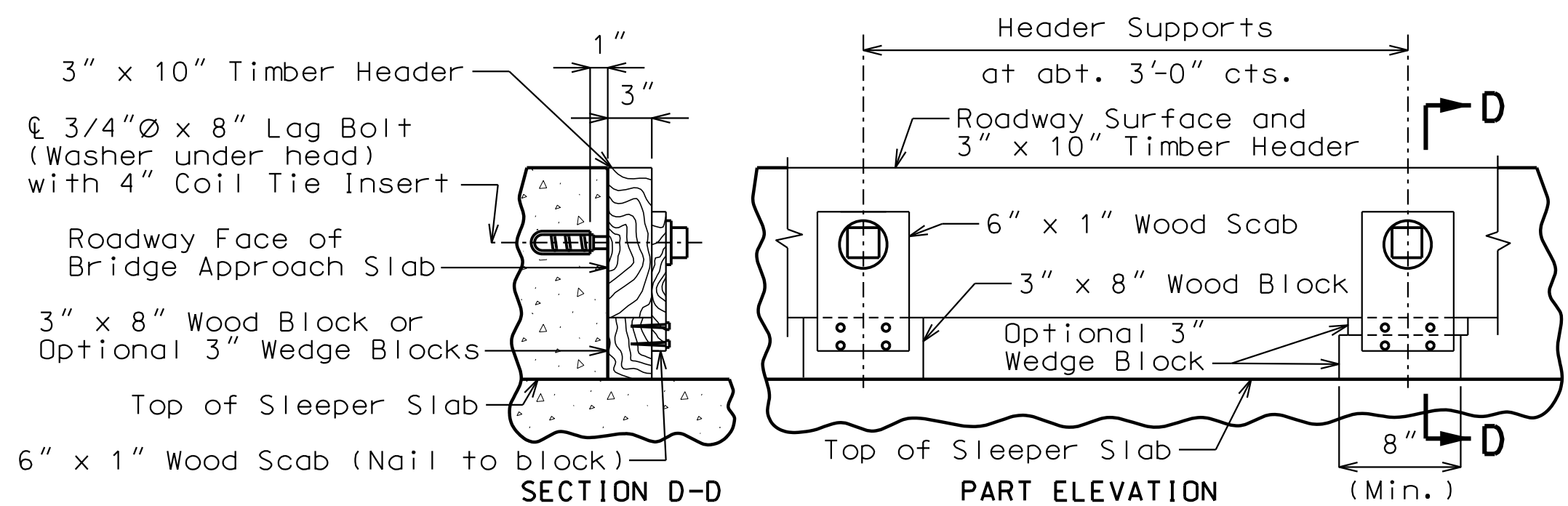
UNDERSEAL ACCESS HOLE DETAIL (If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN CURB AND BARRIER



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER Remove timber header when concrete pavement is placed.

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For details of barrier on bridge approach slab, see Sheet No. 21.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 06-AUG-2021

ROUTE	STATE
I-55	MO
DISTRICT	SHEET NO.
BR	22

COUNTY: ST. LOUIS

JOB NO.: J613149

CONTRACT ID.

PROJECT NO.

BRIDGE NO.: A10853

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

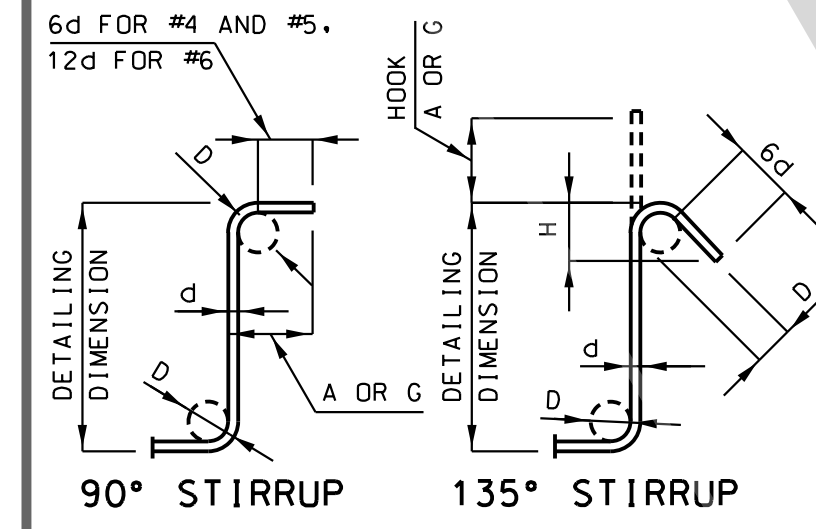
105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
601 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

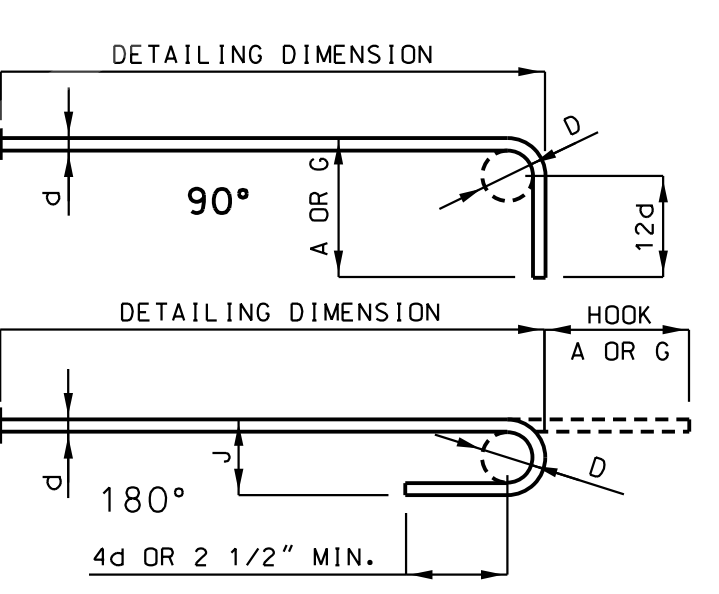
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT								
								B	C	D	E	F	H	K											
SIZE	MARK							FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	LBS.					
		END BENT 1																							
4	5 H1	DIAPHRAGM	E	20				39	0.000							39	0	39	0	163					
24	5 H2	DIAPHRAGM	E	20				9	3.000							9	3	9	3	232					
20	5 H3	DIAPHRAGM	E	20				6	10.000							6	10	6	10	143					
4	5 H4	DIAPHRAGM	E	21				1	3.875	3	6.000			1	1.750	0	8.000	4	10	4	6	19			
4	5 H5	DIAPHRAGM	E	21				1	3.875	5	5.000			1	1.750	0	8.000	6	9	6	5	27			
4	5 H6	DIAPHRAGM	E	21				1	10.875	6	6.000			1	7.500	1	0.000	8	5	8	1	34			
4	5 H7	DIAPHRAGM	E	19				1	11.000	1	11.000							3	10	3	8	15			
8	5 H11	BACKWALL	E	20				32	0.000									32	0	32	0	267			
8	5 H12	BACKWALL	E	14						3	3.000	2	0.875					1	2.000	1	8.500	5	4	4	45
4	5 H13	DIAPHRAGM	E	20				26	0.000									26	0	26	0	108			
59	5 U1	DIAPHRAGM	E	10						3	1.500	1	5.250					7	8	7	5	456			
6	5 U2	DIAPHRAGM	E	11	S			0	6.000	3	1.500	0	6.000					4	8	4	2	26			
		END BENT 9																							
4	5 H101	DIAPHRAGM	E	20				38	3.000							38	3	38	3	160					
24	5 H102	DIAPHRAGM	E	20				9	2.000							9	2	9	2	229					
20	5 H103	DIAPHRAGM	E	20				6	10.000							6	10	6	10	143					
4	5 H104	DIAPHRAGM	E	21				1	3.875	3	6.000			1	1.750	0	8.000	4	10	4	6	19			
4	5 H105	DIAPHRAGM	E	21				1	3.875	5	5.000			1	1.750	0	8.000	6	9	6	5	27			
4	5 H106	DIAPHRAGM	E	21				1	9.375	3	9.000			1	7.000	0	9.750	5	6	5	3	22			
4	5 H107	DIAPHRAGM	E	19				1	9.000	1	9.000							3	6	3	4	14			
8	5 H111	BACKWALL	E	20				36	4.000									36	4	36	4	303			
8	5 H112	BACKWALL	E	14						3	3.000	2	2.875					1	0.000	2	0.000	5	6	5	46
4	5 H113	DIAPHRAGM	E	20				25	3.000									25	3	25	3	105			
59	5 U101	DIAPHRAGM	E	10						3	1.500	1	5.250					7	8	7	5	456			
6	5 U102	DIAPHRAGM	E	11	S			0	6.000	3	1.500	0	6.000					4	8	4	2	26			
		SLAB																							
1126	5 S1	SLAB	E	20				60	0.000							60	0	60	0	70465					
214	5 S2	SLAB	E	20				6	6.000							6	6	6	6	1451					
208	5 S3	SLAB	E	20				11	7.000							11	7	11	7	2513					
195	5 S4	SLAB	E	28	S					4	0.000	0	6.000	0	9.500			5	4	5	1	1034			
4000	4 S5	SLAB	E	10				0	6.000	0	6.000	0	11.000	0	6.000			2	11	2	6	6680			
8	5 S6	SLAB	E	20				3	6.000									3	6	3	6	29			
18	5 S7	SLAB	E	20		V	1	31	1.625									31	2	31	2	375			
		INCR. =						8	9.000									8	9	8	9				
		15.75 in																							
430	6 S8	SLAB	E	20				51	0.000							51	0	51	0	32939					
86	6 S9	SLAB	E	20				49	0.000							49	0	49	0	6329					
33	6 S10	SLAB	E	20		V	1	35	4.500									35	5	35	5	927			
		INCR. =						2	0.000									2	0	2	0				
		12.5 in																							
21	6 S11	SLAB	E	20		V	1	25	1.250									25	1	25	1	435			
		INCR. =						2	6.125									2	6	2	6				
		13.5 in																							
19	6 S12	SLAB	E	20		V	1	25	3.500									25	4	25	4	397			
		INCR. =						2	6.125									2	6	2	6				
		15.25 in																							
21	6 S13	SLAB	E	20		V	1	23	10.875									23	11	23	11	457			
		INCR. =						5	1.125									5	1	5	1				
		11.25 in																							
1764	6 S14	SLAB	E	20				34	8.000									34	8	34	8	91850			



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		H	A OR G	H	A OR G
#4	2"	4 1/2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	8"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.

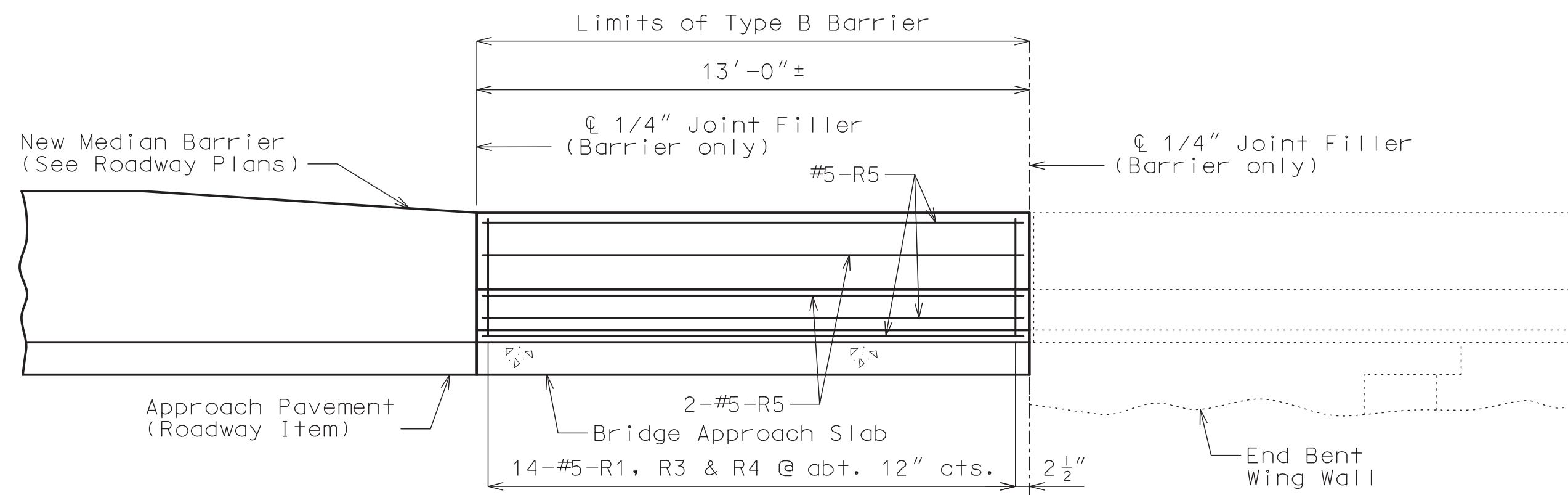


BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	A OR G
#3	2 1/4"	5"	3"	6"	6"
#4	3"	6"	4"	8"	8"
#5	3 3/4"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	12"	12"
#7	5 1/4"	10"	7"	14"	14"
#8	6"	11"	8"	16"	16"
#9	9 1/2"	15"	11 3/4"	19"	19"
#10	10 3/4"	17"	13 1/4"	22"	22"
#11	12"	19"	14 3/4"	2'-0"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	2'-7"

NOTE: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 E = EPOXY COATED REINFORCEMENT.
 S = STIRRUP.
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
 FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

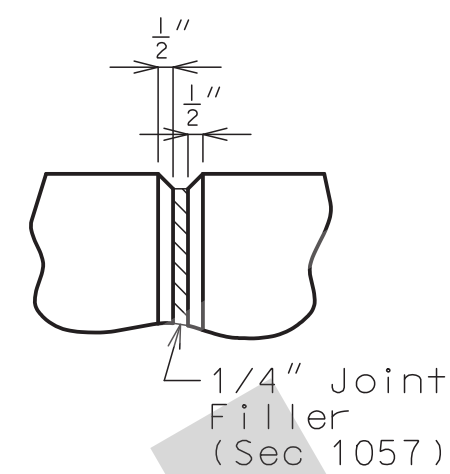
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT				
								B	C	D	E	F	H	K							
SIZE	MARK							FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	LBS.	
		SLAB																			
		CONT.																			
1796	6 S15	SLAB	E	20												25	7.000				69013
18	6 S16	SLAB	E	20		V	1	23	10.875							23	11	23	11	401	
		INCR. =						5	9.375							5	9	5	9		
		12.75 in																			
34	6 S17	SLAB	E	20		V	1	34	2.125							34	2	34	2	934	
		INCR. =						3	10.875							2	5	2	5		
		11.5 in																			
27	6 S18	SLAB	E	20		V	1	32	6.125							32	6	32	6	840	
		INCR. =						8	11.375							8	11	8	11		
		10.875 in																			
19	6 S19	SLAB	E	20		V	1	22	9.750							22	10	22	10	397	
		INCR. =						5													

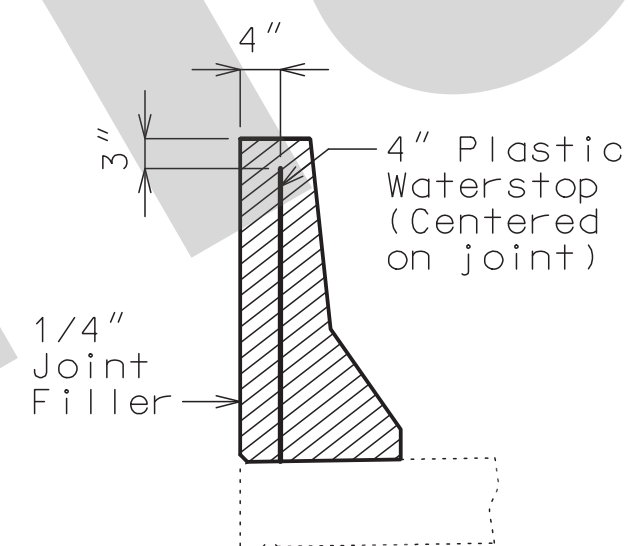


PART ELEVATION OF BARRIER

Left Barrier at End Bents No. 1 and 5 shown.
Right Barrier at End Bent No. 1 similar.



PART ELEVATION AT FORMED JOINT



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

General Notes:

Top of barrier shall be built parallel to grade with barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

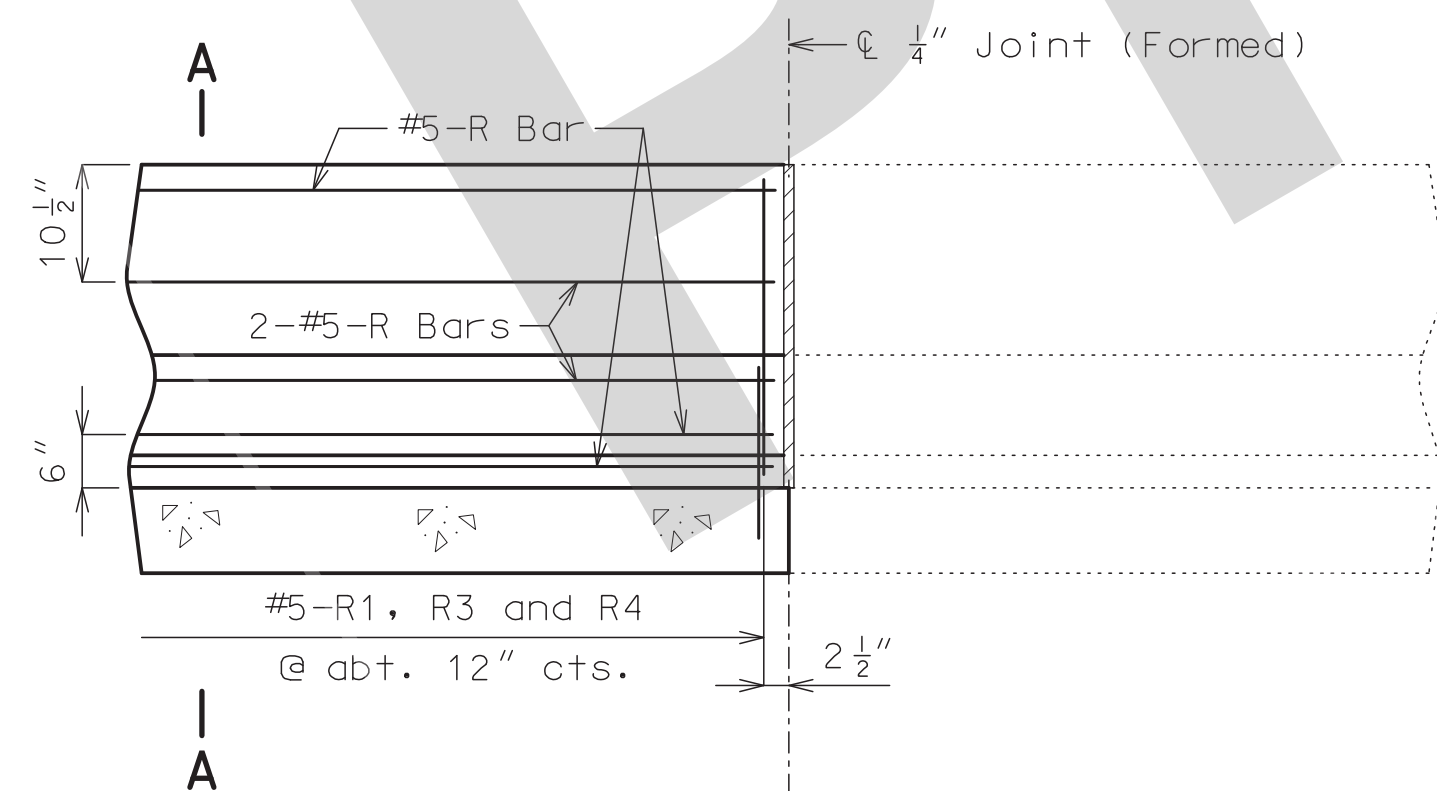
Concrete in the barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.

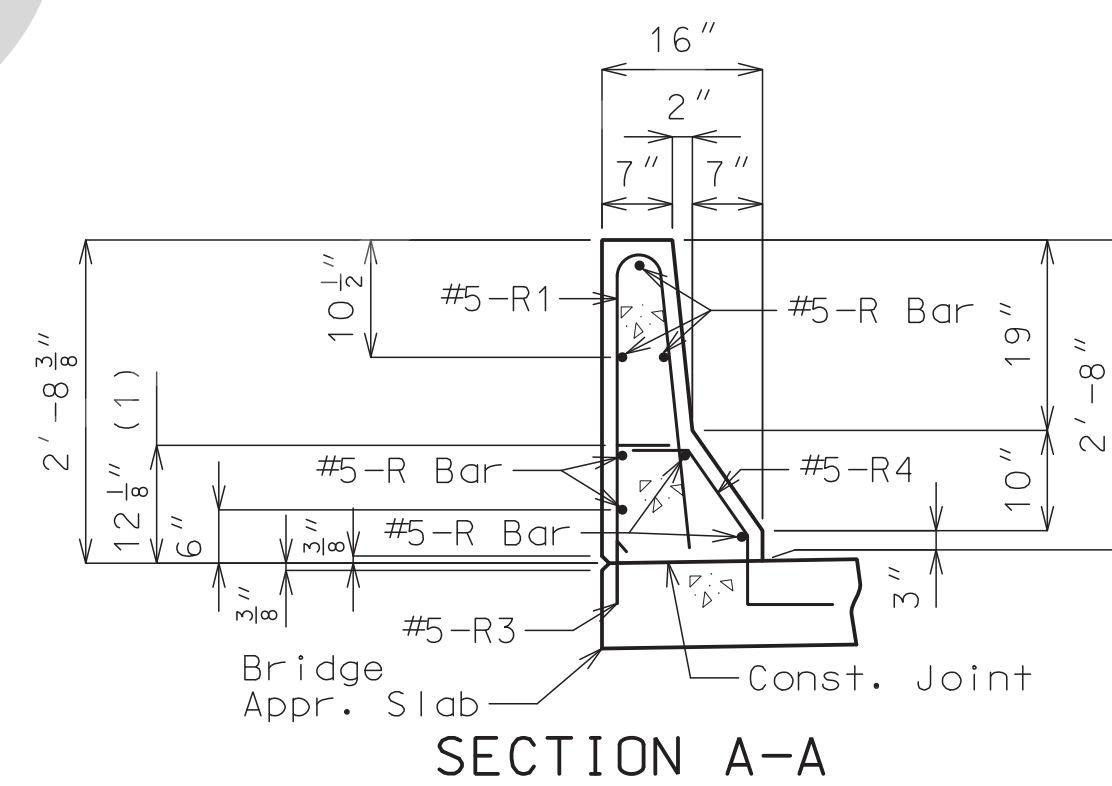
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER

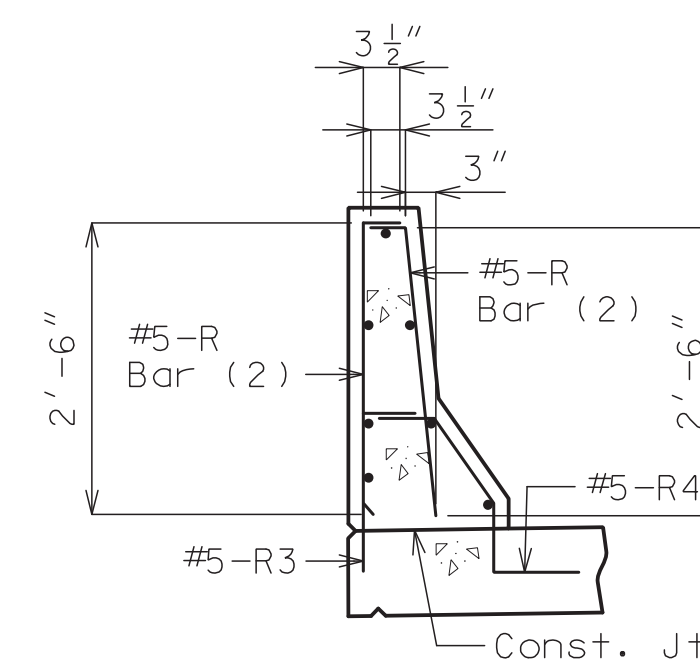


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.27 square feet.

(1) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(2) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

TYPE B BARRIER ON APPROACH SLAB

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 7

Detailed JUN 2021
Checked JUN 2021



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10863	

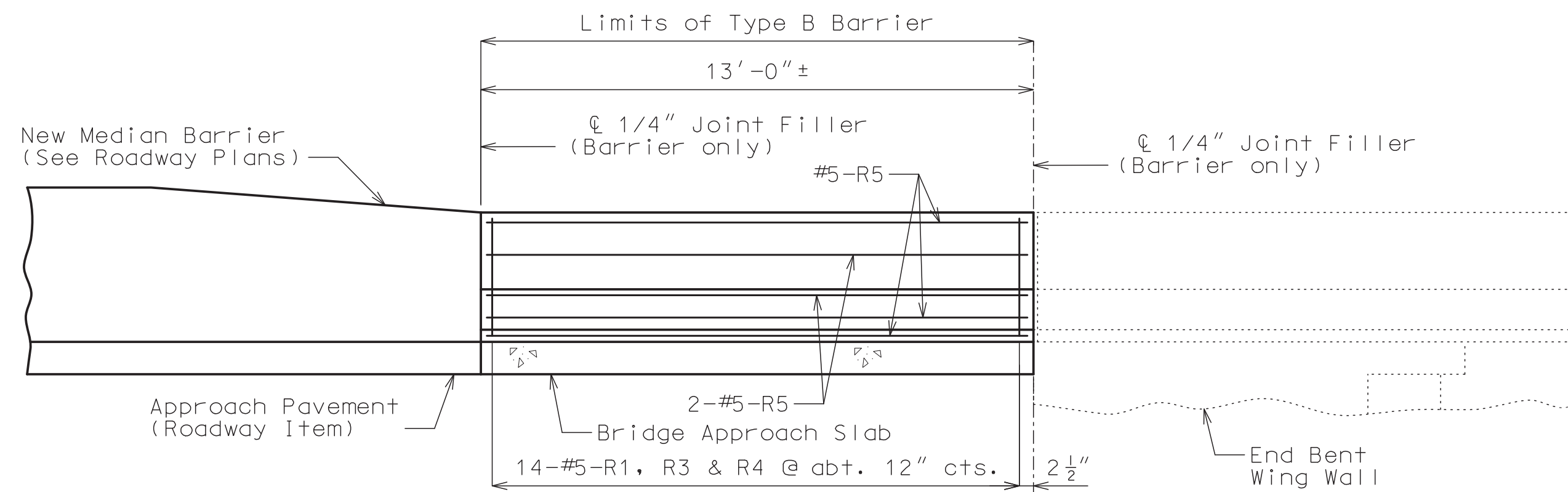
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

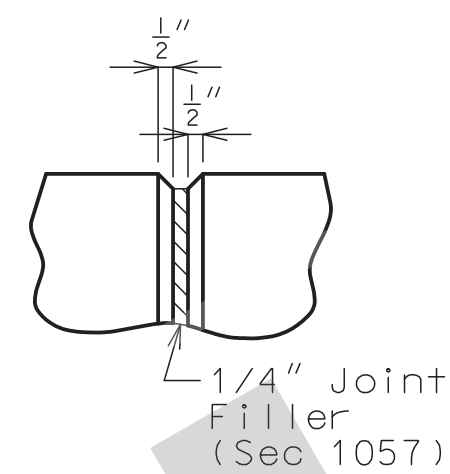
EKK Moen
Civil Engineering Design
1323 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

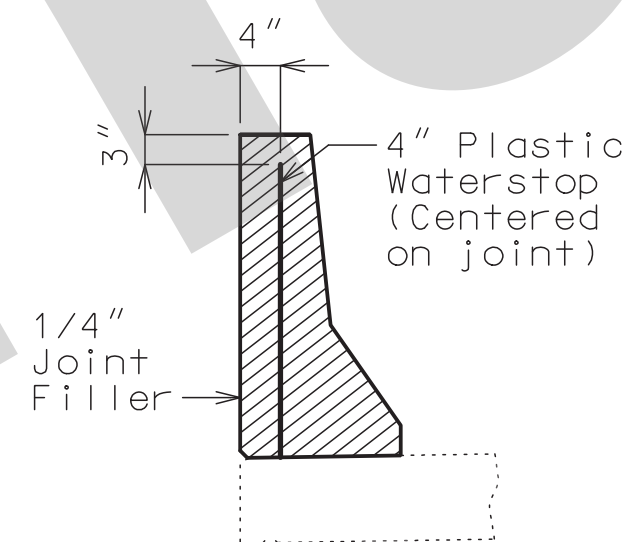


PART ELEVATION OF BARRIER

Right Barrier at End Bents No. 1 and 5 shown.
Left Barrier at End Bent No. 1 similar.



PART ELEVATION AT FORMED JOINT



WATERSTOP DETAIL

Plastic waterstop shall be placed in all formed joints, except structures with superelevation, use on lower joints only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type B Barrier.

General Notes:

Top of barrier shall be built parallel to grade with barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.

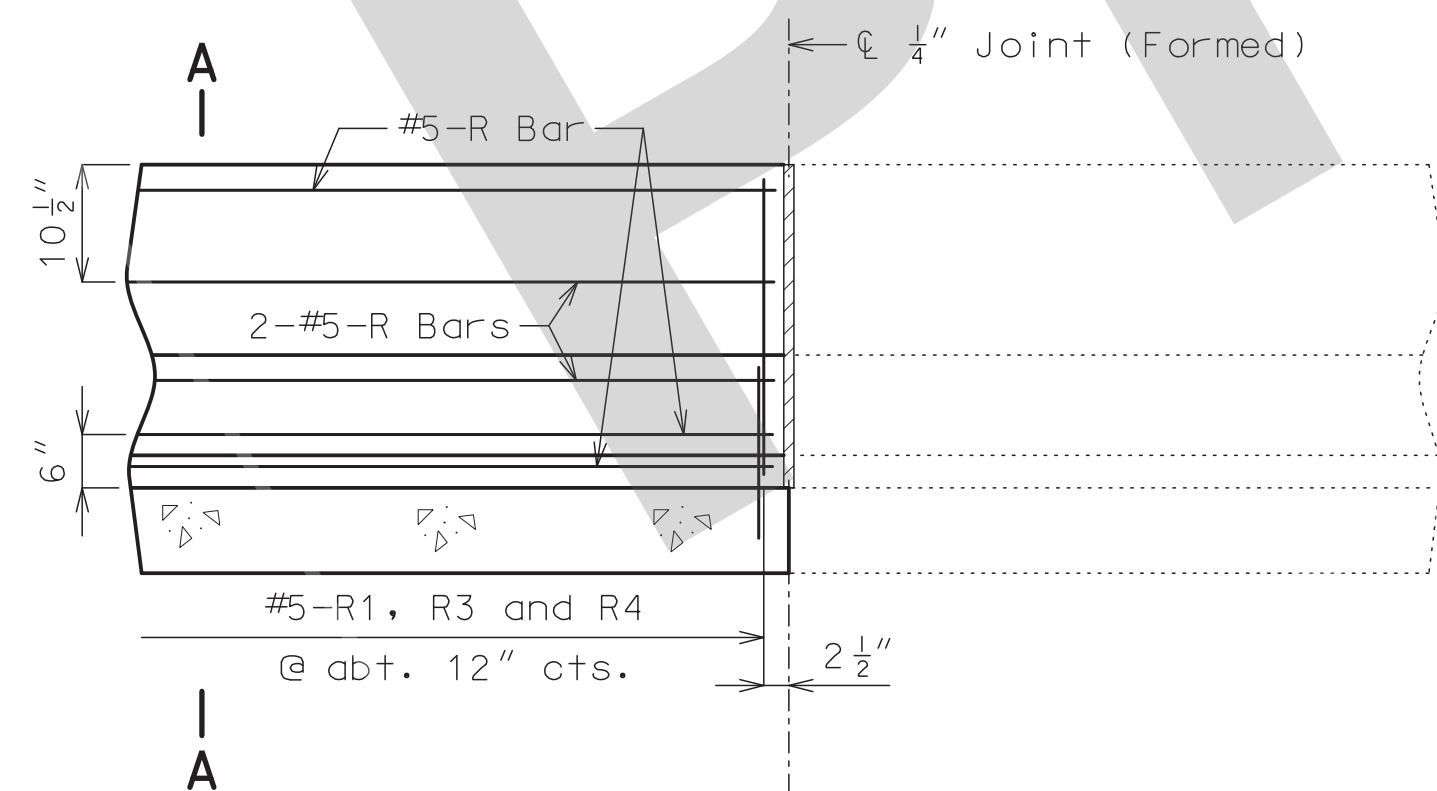
Concrete in the barrier shall be Class B-1.

Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.

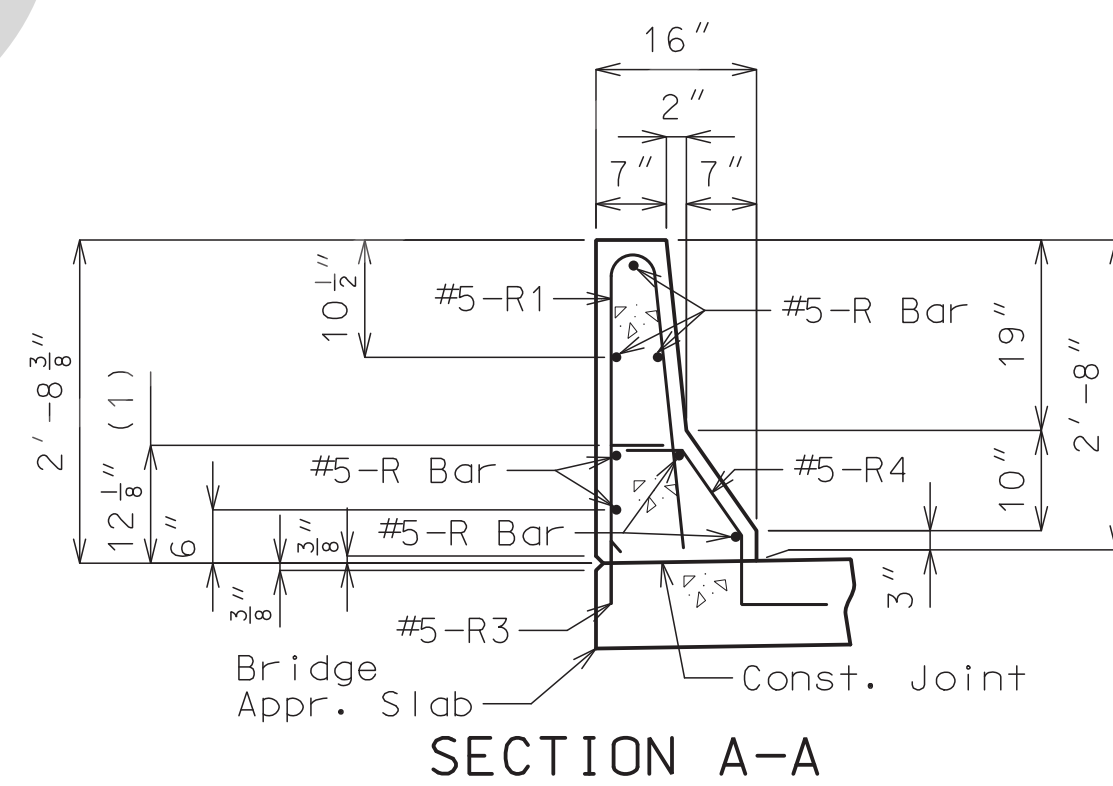
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with saw cut joints.



PART ELEVATION OF BARRIER

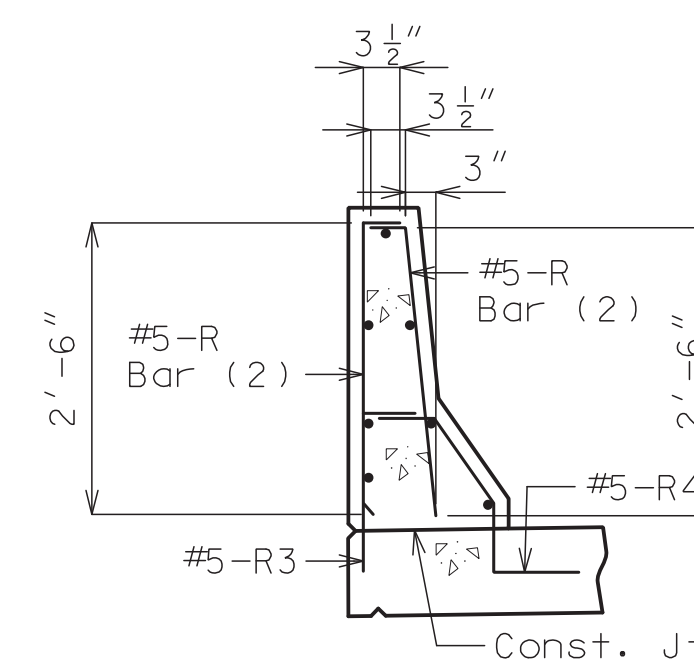


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 2.27 square feet.

(1) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(2) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

TYPE B BARRIER ON APPROACH SLAB

Detailed JUN 2021
Checked JUN 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 7



DATE PREPARED 8/5/2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 4
COUNTY ST. LOUIS CITY	
JOB NO. J613149	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10864	

DATE	DESCRIPTION

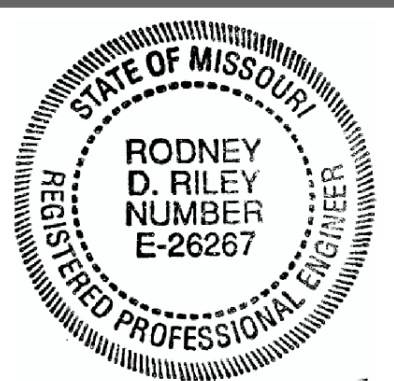
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EKK Moen
Civil Engineering Design
1323 Barrett Parkway Dr, Suite 250
St. Louis, MO 63021
314-594-5100
Missouri Certificate of Authority: 001578

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

U.I.P., REDECK AND REHABILITATE EXISTING (44'-55'-66'-54'-44') COMPOSITE WIDE FLANGE BEAM SPANS (SKEW VARIES)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 DATE PREPARED 12-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT BR SHEET NO. 1
 COUNTY ST. LOUIS
 JOB NO. J613187
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A06072

Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.

General Notes:

Design Specifications:
 2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
 H20-44 (1961)
 HS20-44 Modified (1983 and 2021)
 15 lb/sf Future Wearing Surface
 Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf

Design Unit Stresses:
 Class B-1 Concrete (Barrier) $f'c = 4,000$ psi
 Class B-2 Concrete (End Bent, Superstructure, except Barrier) $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $f_y = 60,000$ psi

Joint Filler:
 All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:
 The top, sides and bottom of the top flanges of existing steel stringers shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

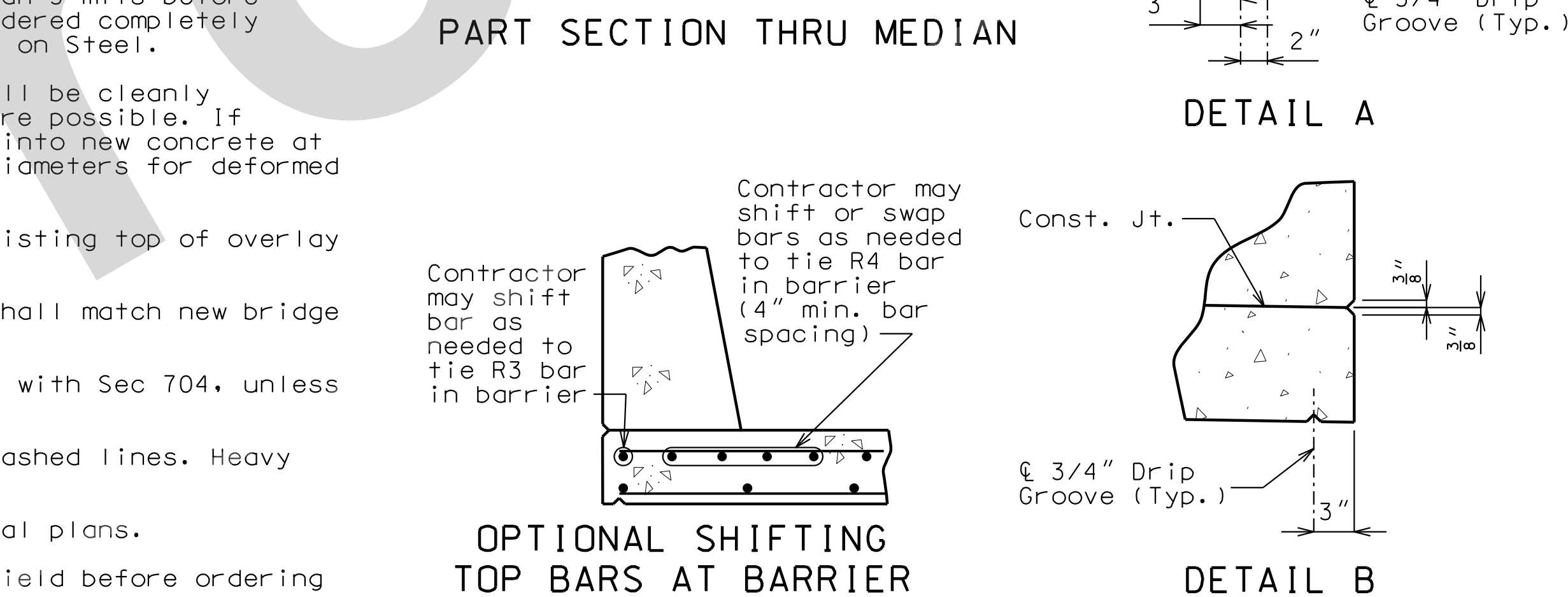
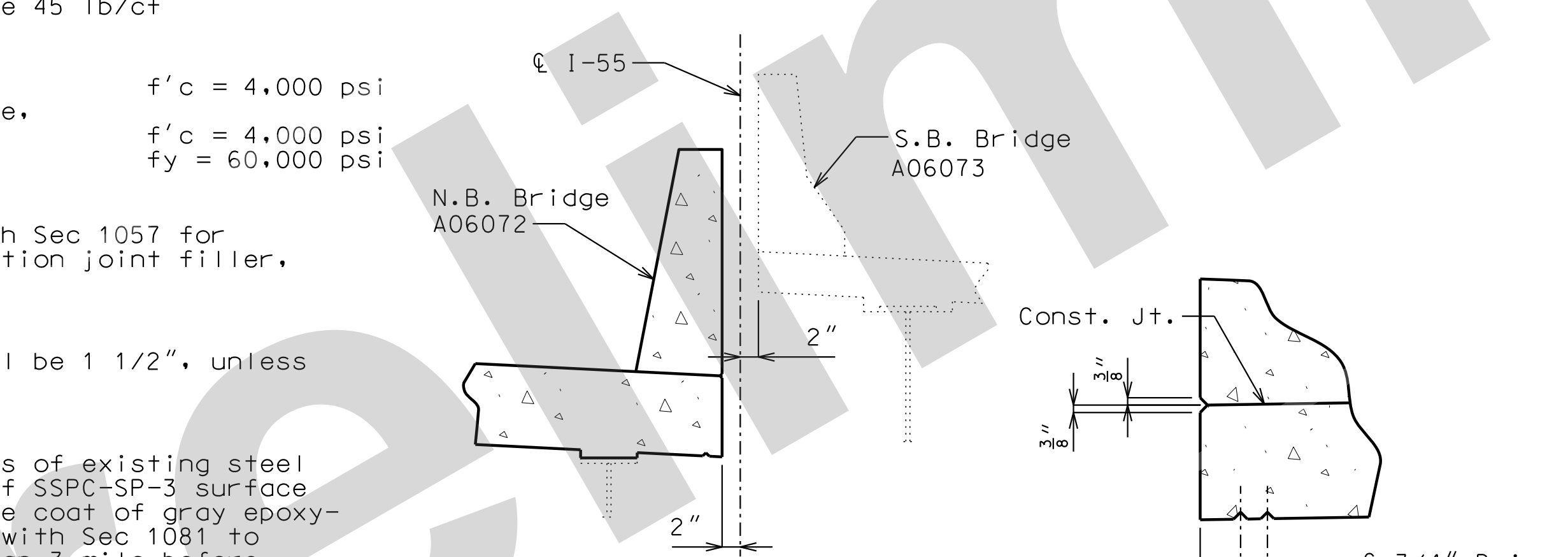
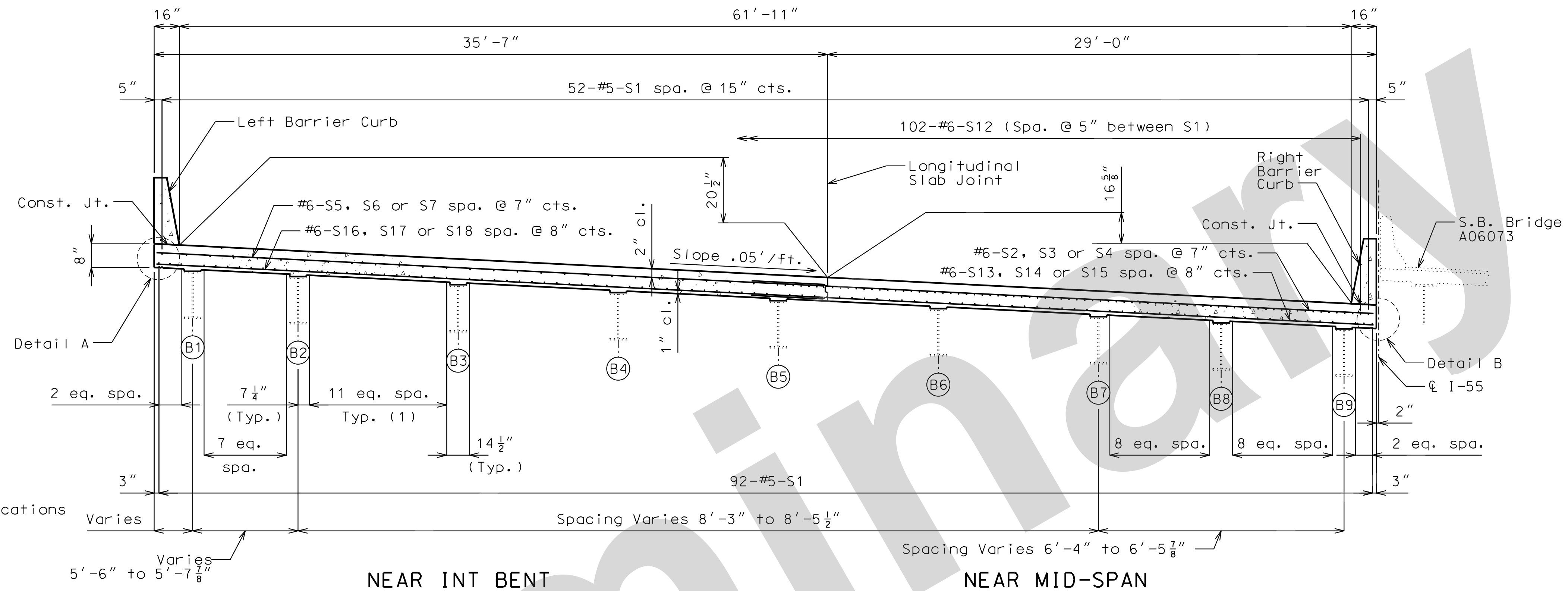
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Longitudinal dimensions are based on original plans.

Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Traffic Handling:
 Structure to be closed during construction. Traffic to be maintained on southbound bridge during construction. See roadway plans for traffic control.



Item	Quantity	Total
Removal of Existing Bridge Deck	sq. foot	17247
Removal of Wing	lump sum	1
Bridge Approach Slab (Major)	sq. yard	275
Slab on Steel	sq. yard	1915
Class B-2 Concrete	cu. yard	4.2
Type D Barrier	linear foot	596
Substructure Repair (Unformed)	sq. foot	275
Reinforcing Steel (Epoxy Coated)	pound	410
Slab Drain	each	2
Non-Destructive Testing	linear foot	482
Reset Bearings	each	12

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Item	Quantity	Total
Class B-2 Concrete	cu. yard	445
Reinforcing Steel (Epoxy Coated)	pound	137,570

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

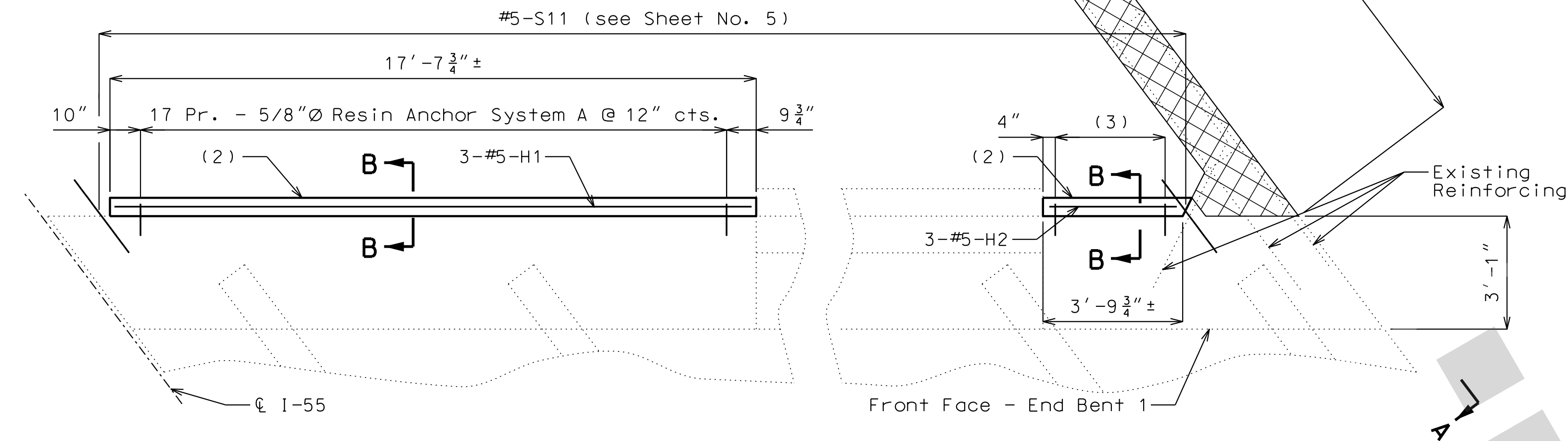
Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

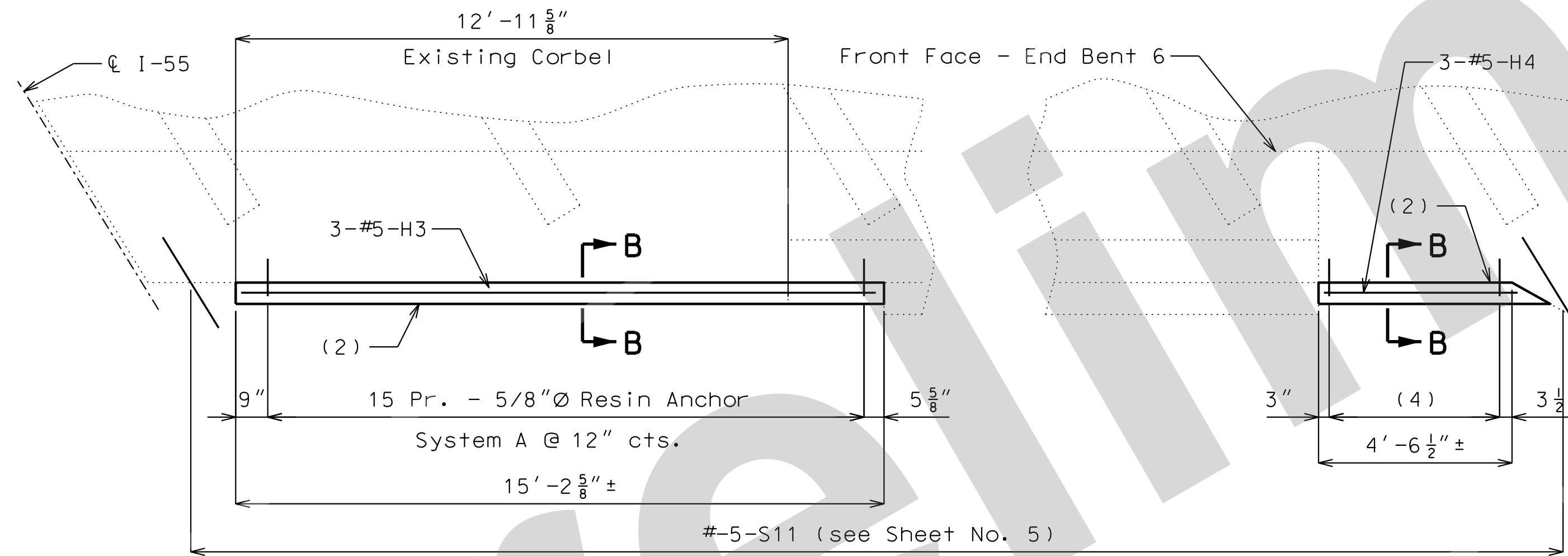
**REPAIRS TO BRIDGE:
 ROUTE I-55 NB OVER GRAVOIS CREEK**

ROUTE I-55 FROM ROUTE I-270 TO ROUTE I-44
 ABOUT 1.8 MILES NORTH OF ROUTE I-270
 STATION 7+17.00± (MATCH EXISTING)

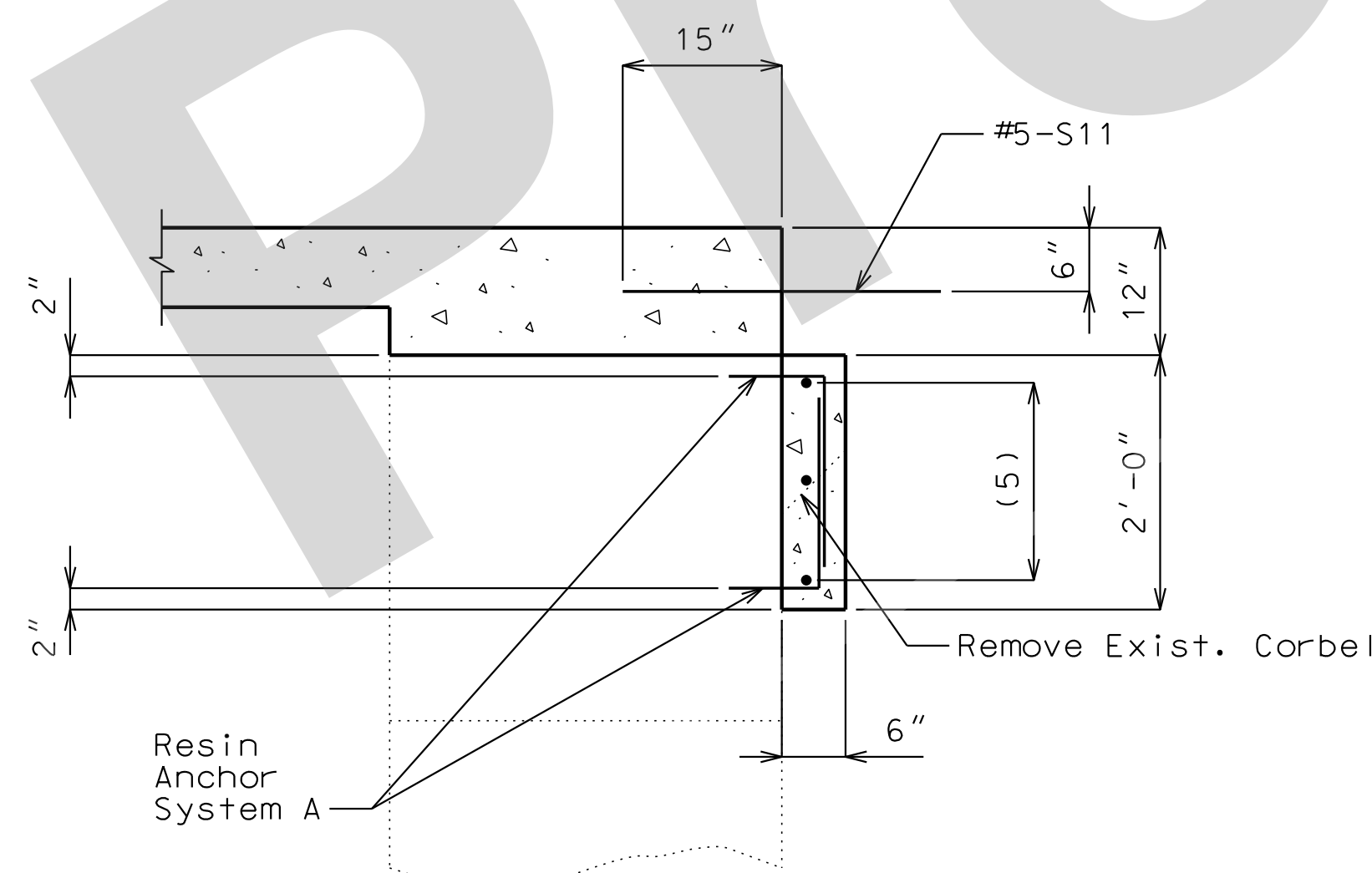
- (1) Remove barrier and wing wall concrete as indicated. Clean and straighten embedded reinforcing.
- (2) Remove existing 6" corbel. Replace as shown, see Section B-B.
- (3) 4 Pr. - 5/8"Ø Resin Anchor System A @ 12" cts.
- (4) 5 Pr. - 5/8"Ø Resin Anchor System A @ 12" cts.



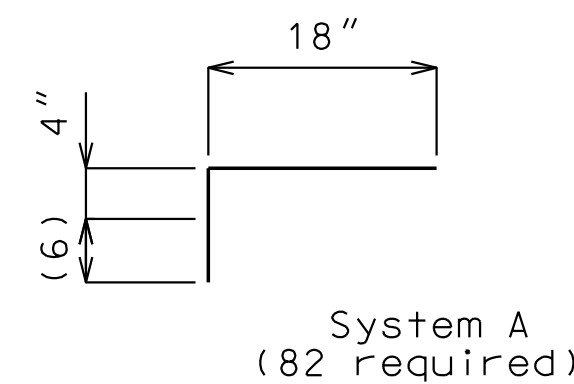
PART PLAN - END BENT 1



PART PLAN - END BENT 6



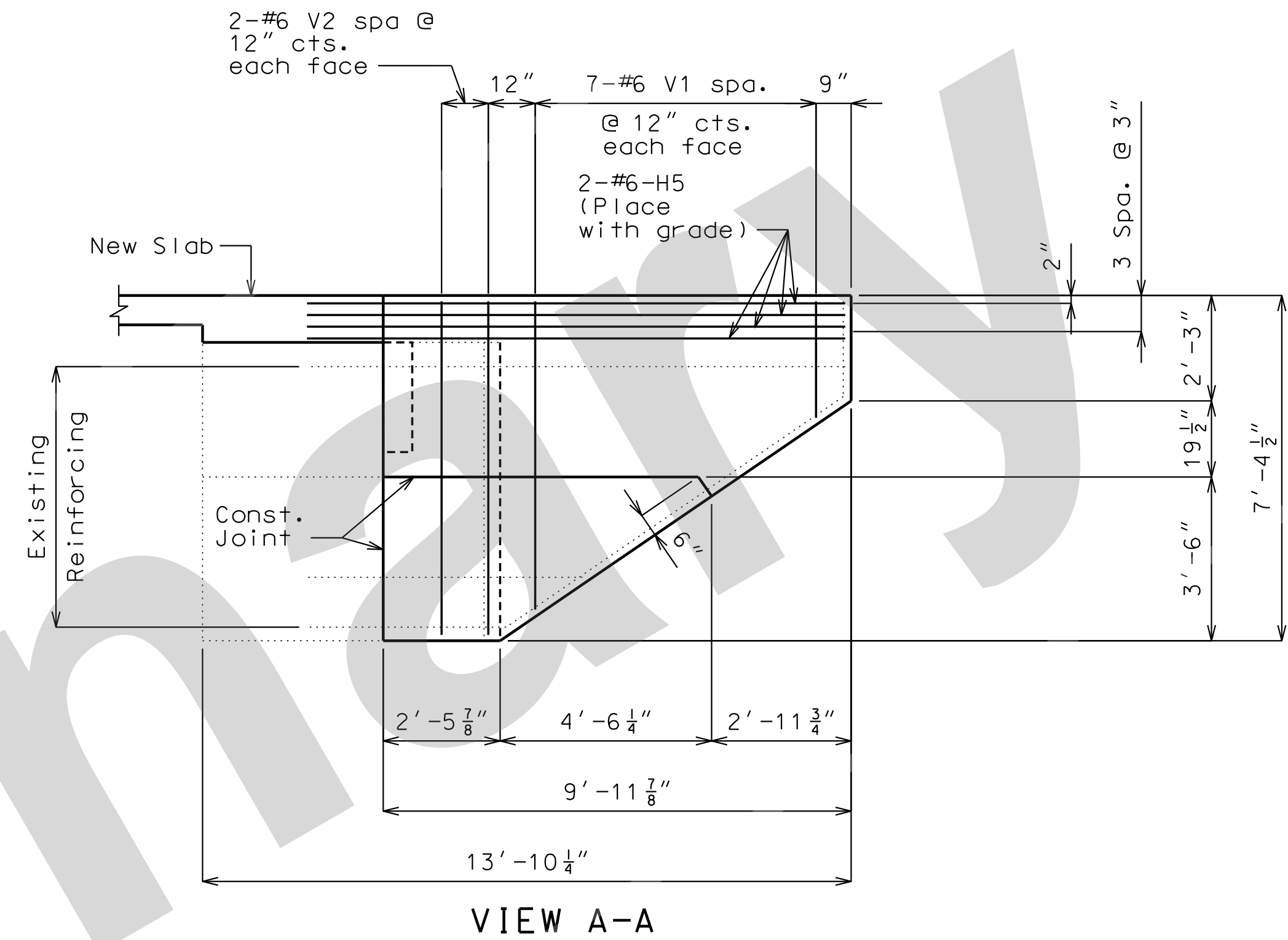
SECTION B-B



DETAILS OF RESIN ANCHOR SYSTEM

- (5) 3-#5-H1, H2, H3 or H4, equally spaced.
- (6) Manufacturer's recommended embedment length (5" min.)

REPAIR DETAILS



VIEW A-A

Notes:

The cost for wing wall and barrier removal will be considered completely covered by the contract lump sum price for Removal of Wing.

For details and reinforcing of Type D Barrier, see Sheet No. 10. Concrete in the wing wall and corbel shall be Class B-2.

The cost to construct the wing wall, except for reinforcing steel, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.

The cost to repair the approach slab corbel, including removal, all material (except for reinforcing steel), labor and equipment, will be considered completely covered by the contract unit price for Class B-2 Concrete.

The cost of reinforcing steel for the wing wall and approach slab corbel will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated)

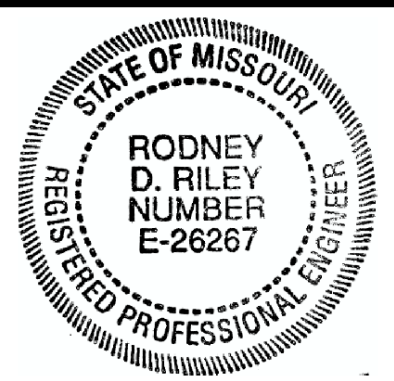
RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06072

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06072

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODDOT (1-888-275-6636)

MoDOT

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

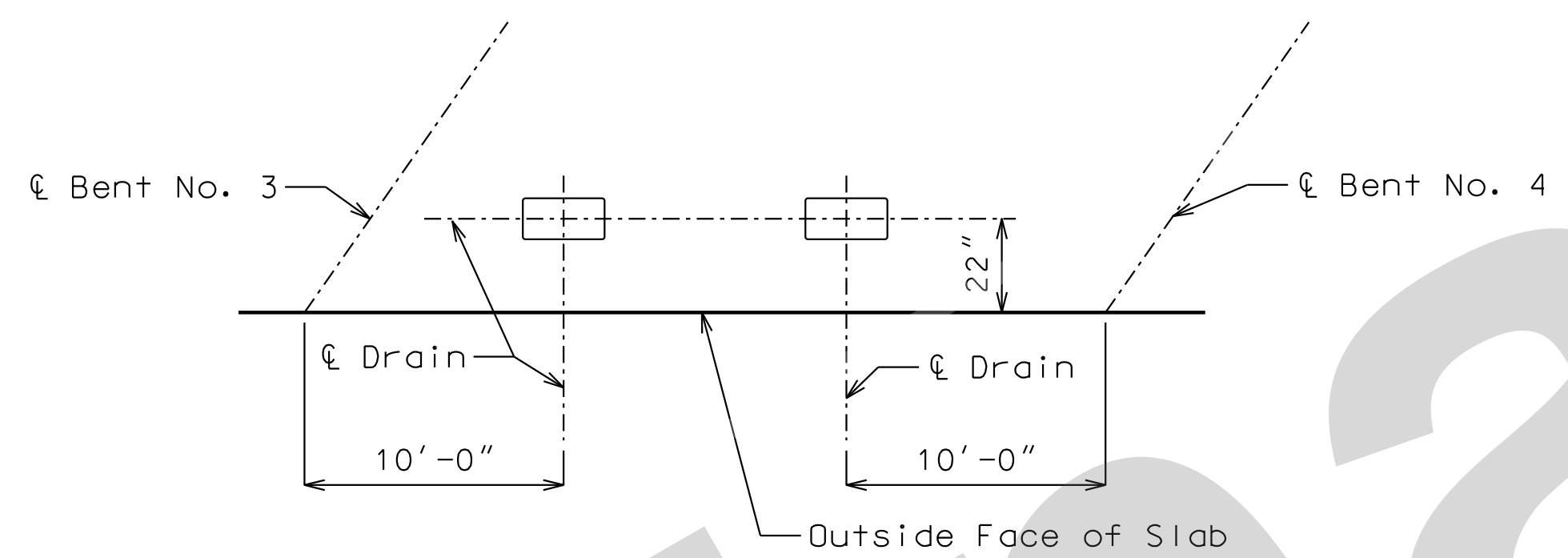
The bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø bolts shall be ASTM A307, except as shown.

Shop drawings will not be required for the slab drains and the bracket assembly.

The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.



PART PLAN SHOWING LOCATION OF DRAINS

Notes for Steel Drain:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

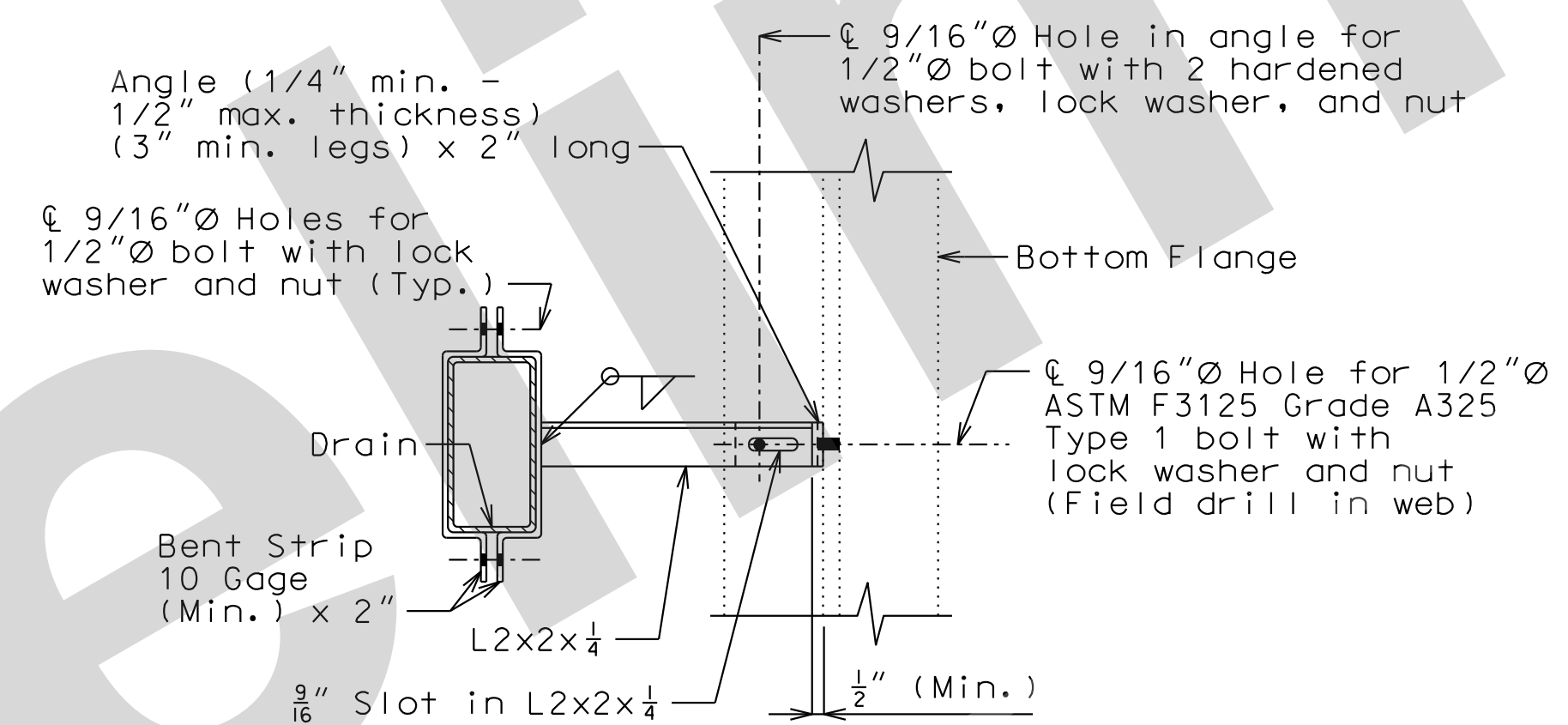
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

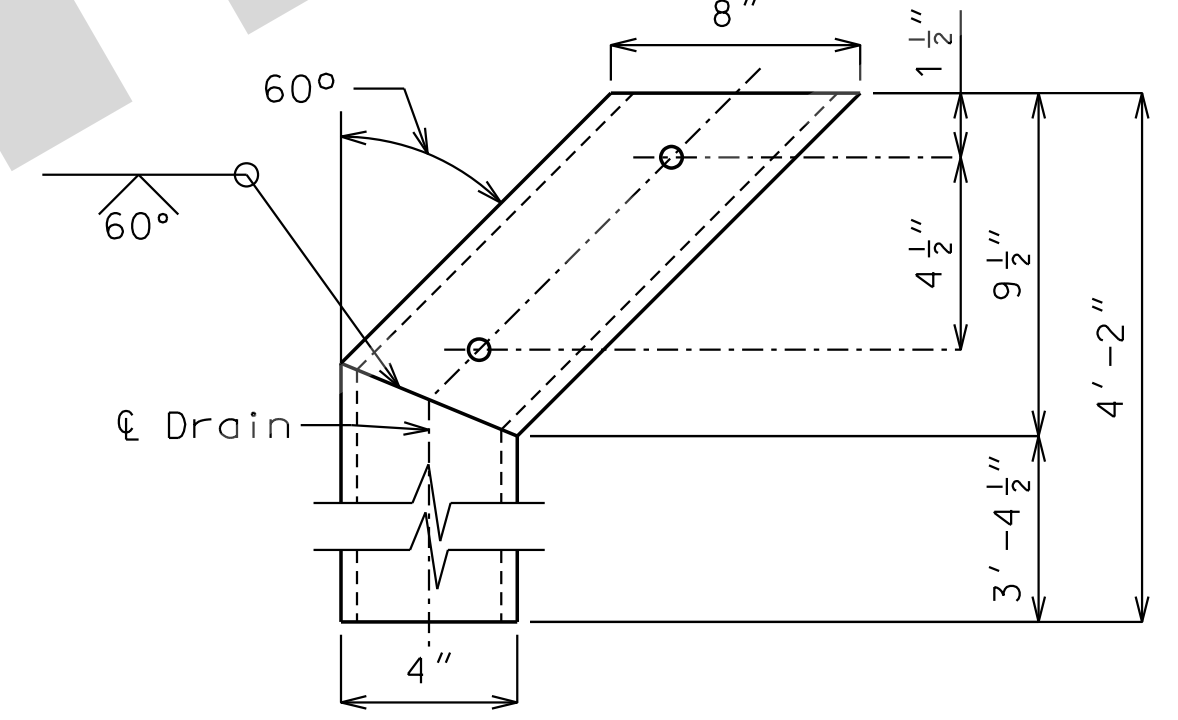
The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

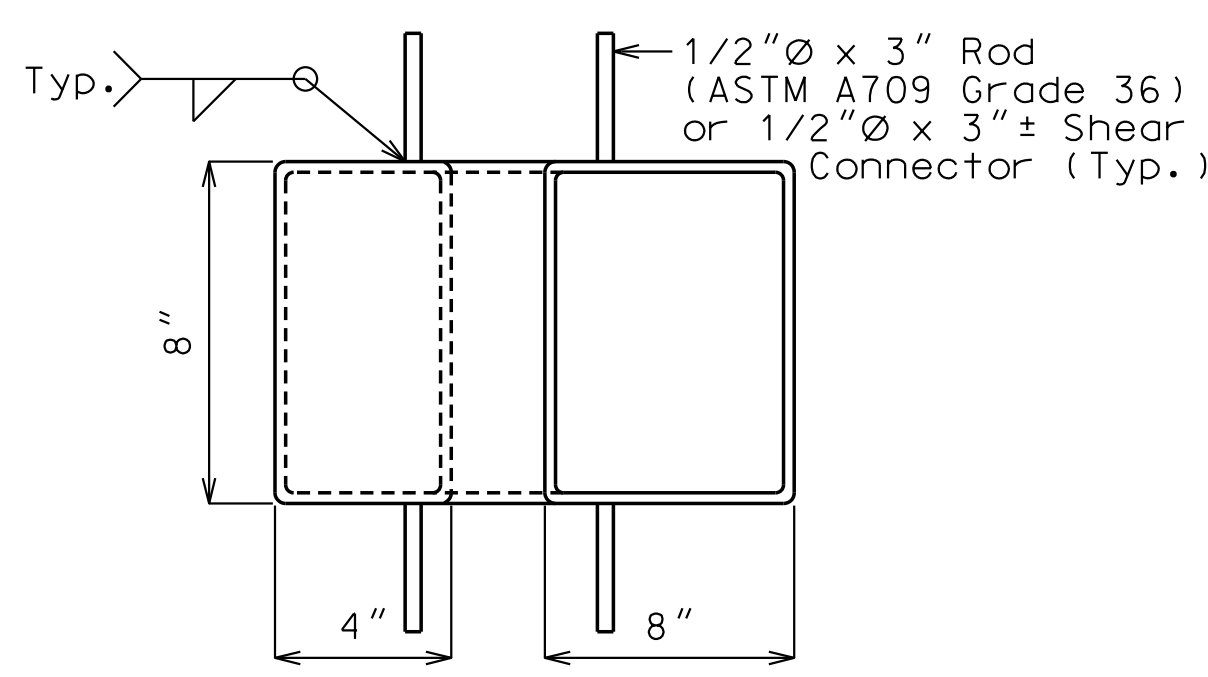
At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be recommended by the manufacturer to ensure a smooth, chip free cut.



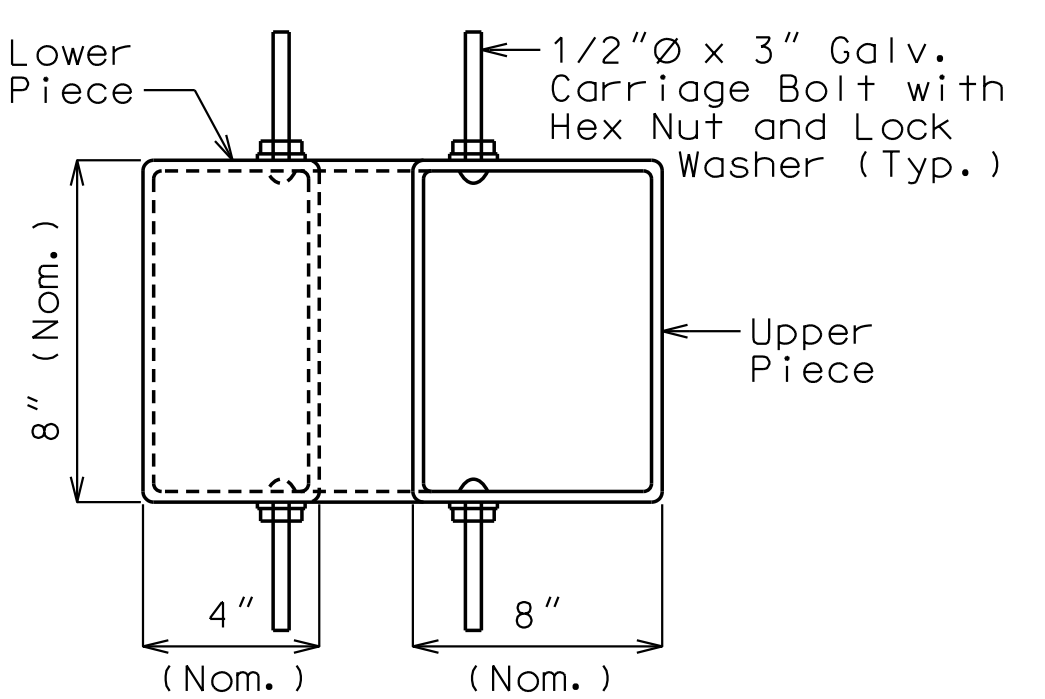
PART SECTION SHOWING BRACKET ASSEMBLY



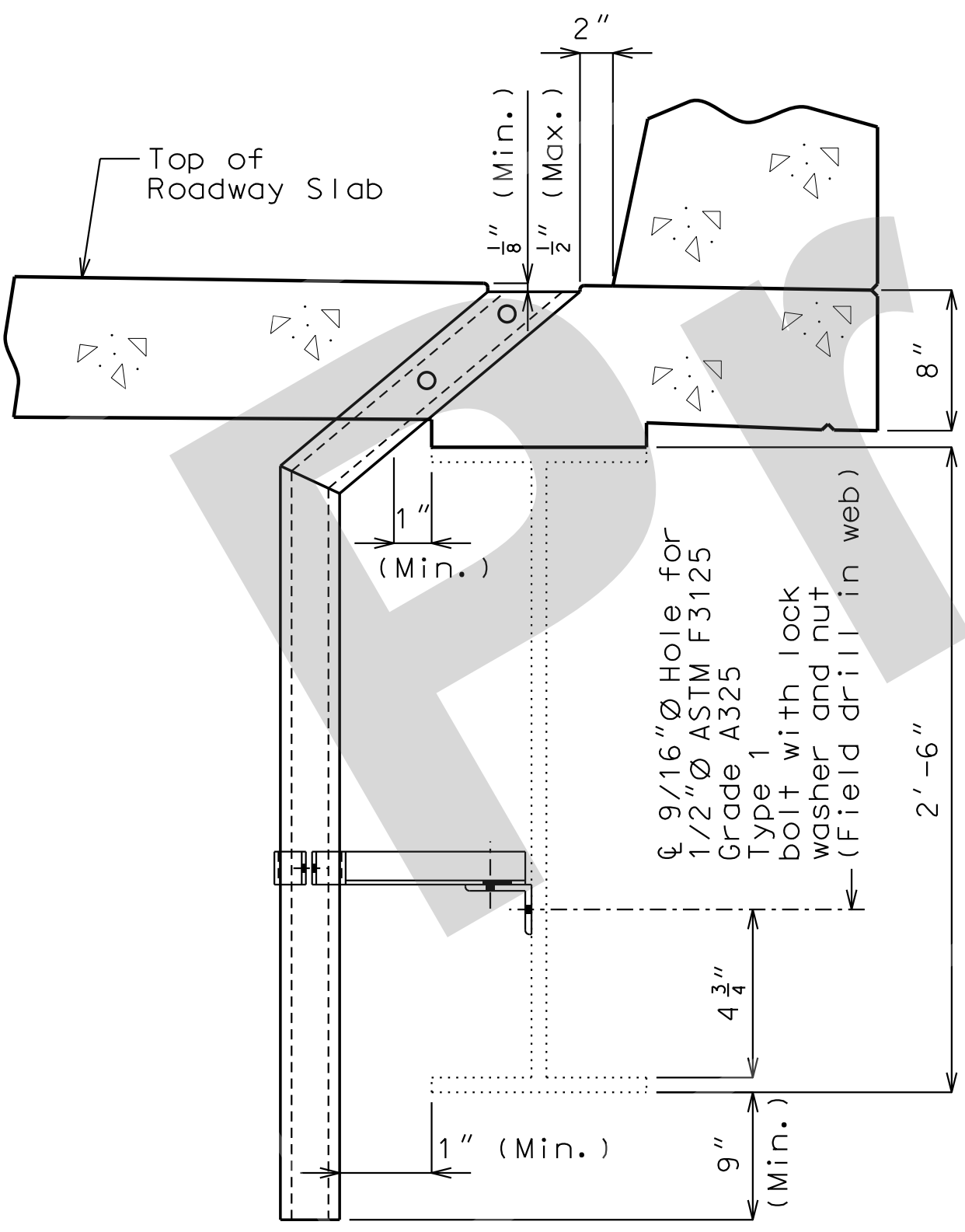
ELEVATION OF DRAIN



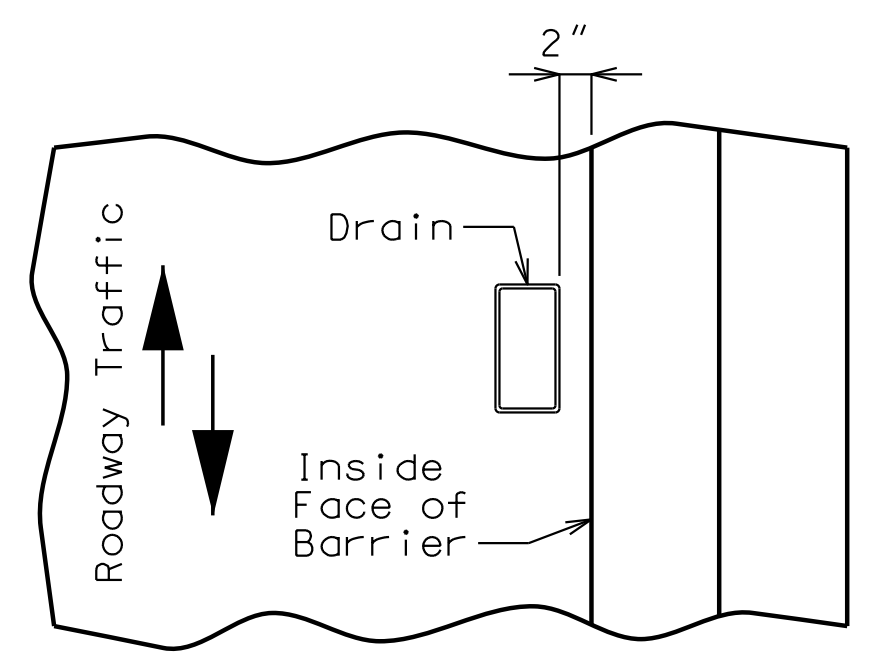
PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION



PART SECTION NEAR DRAIN



PART PLAN OF SLAB AT DRAIN

SLAB DRAINS

Note: This drawing is not to scale. Follow dimensions.

REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 6

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06072

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

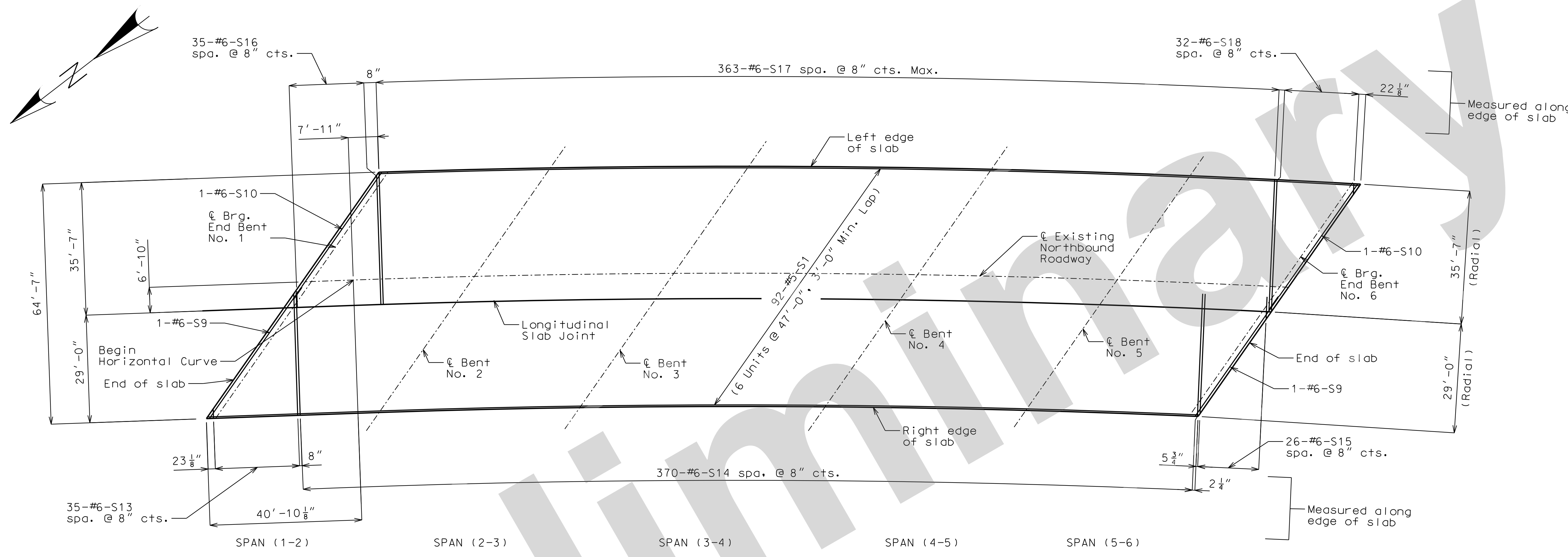
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

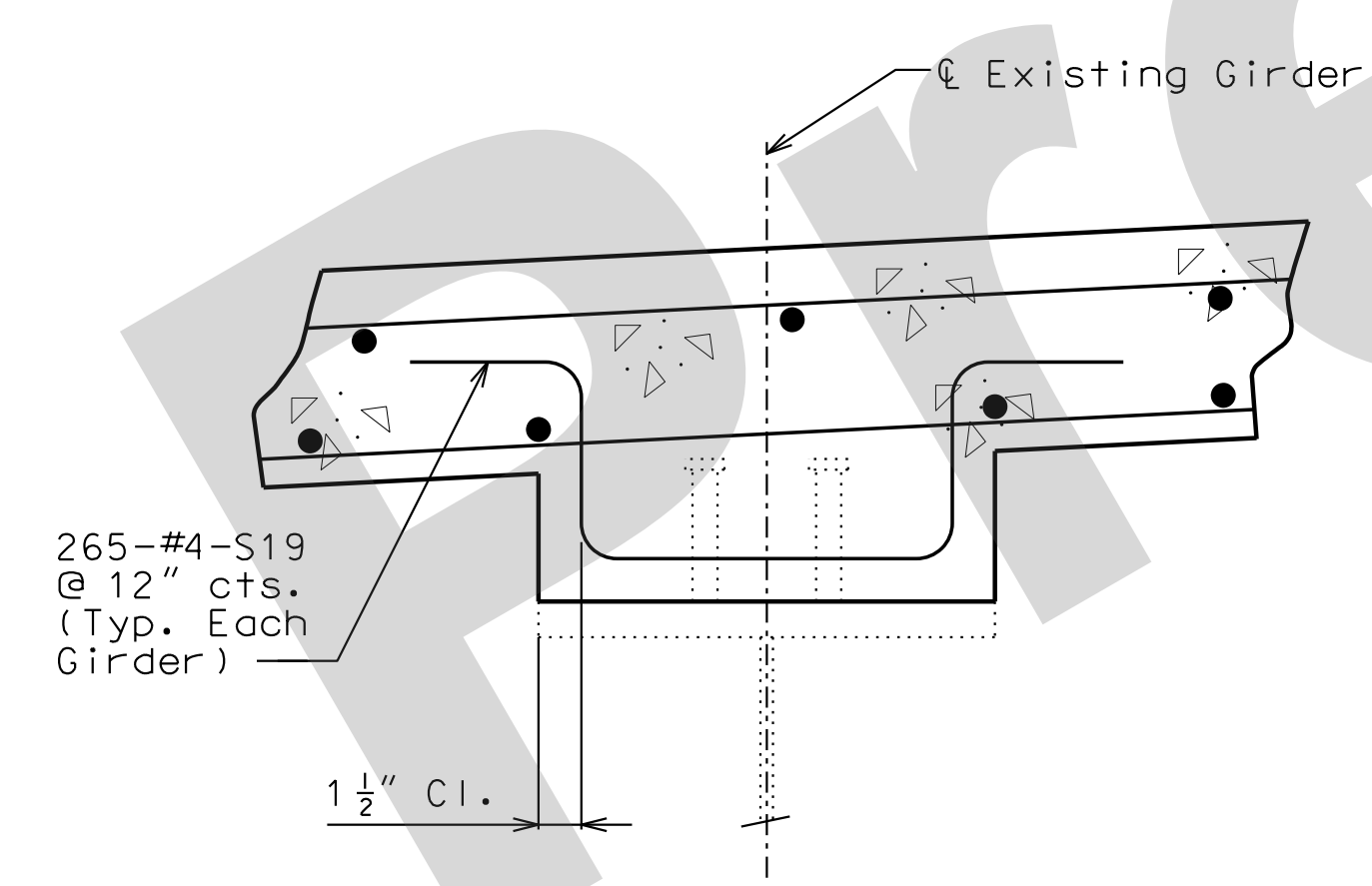
JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT



SECTION THRU HAUNCH

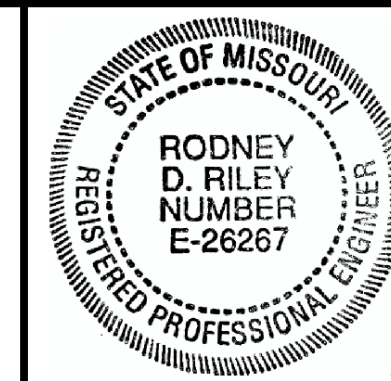
- Notes:
- For General Notes, see Sheet No. 1.
 - For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 - For Top Slab Reinforcement Plan, see Sheet No. 5.

SLAB REINFORCEMENT DETAILS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 14



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06072

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

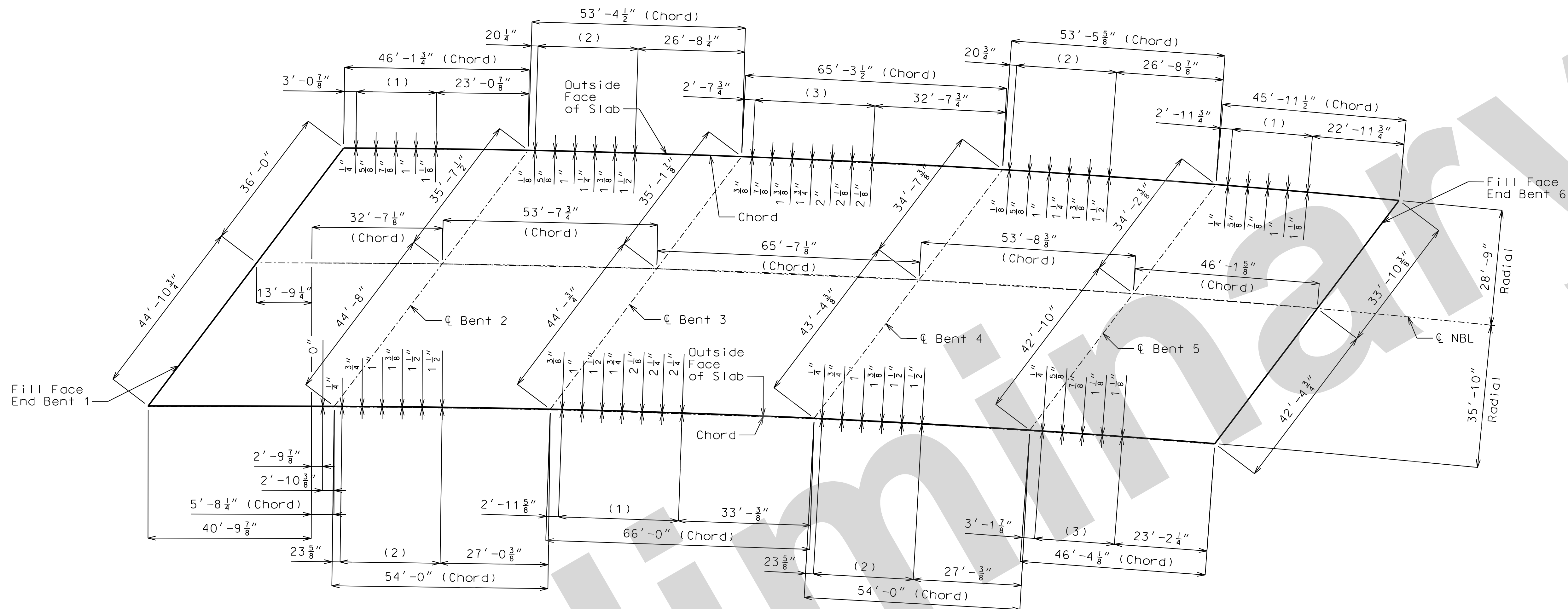
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



SLAB ORDINATES

- (1) 6 Spa. @ 5'-0" = 30'-0"
- (2) 5 Spa. @ 5'-0" = 25'-0"
- (3) 4 Spa. @ 5'-0" = 20'-0"

Notes:

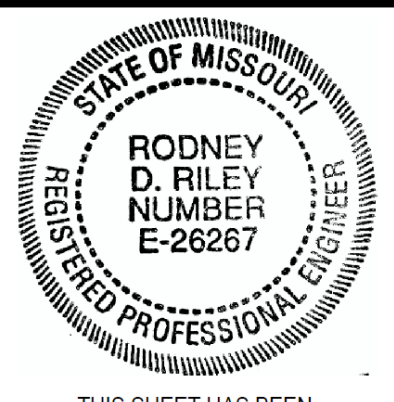
All dimensions shown are horizontal.

SLAB CURVE ORDINATES

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 14



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06072

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

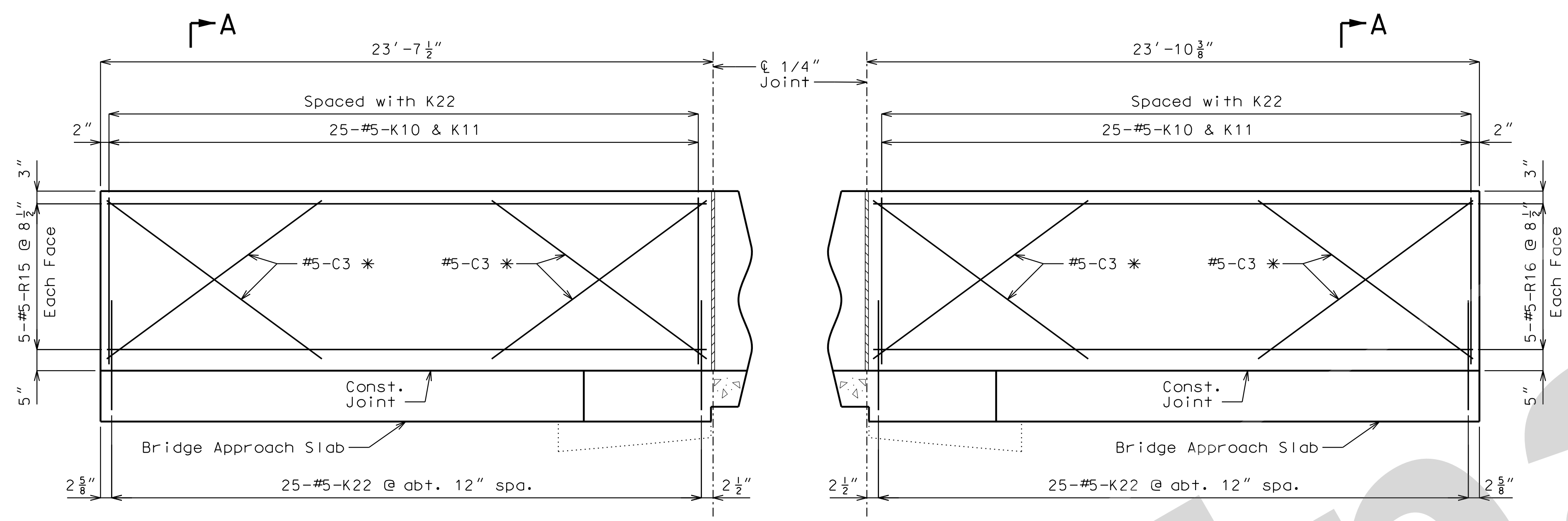
Jacobs
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

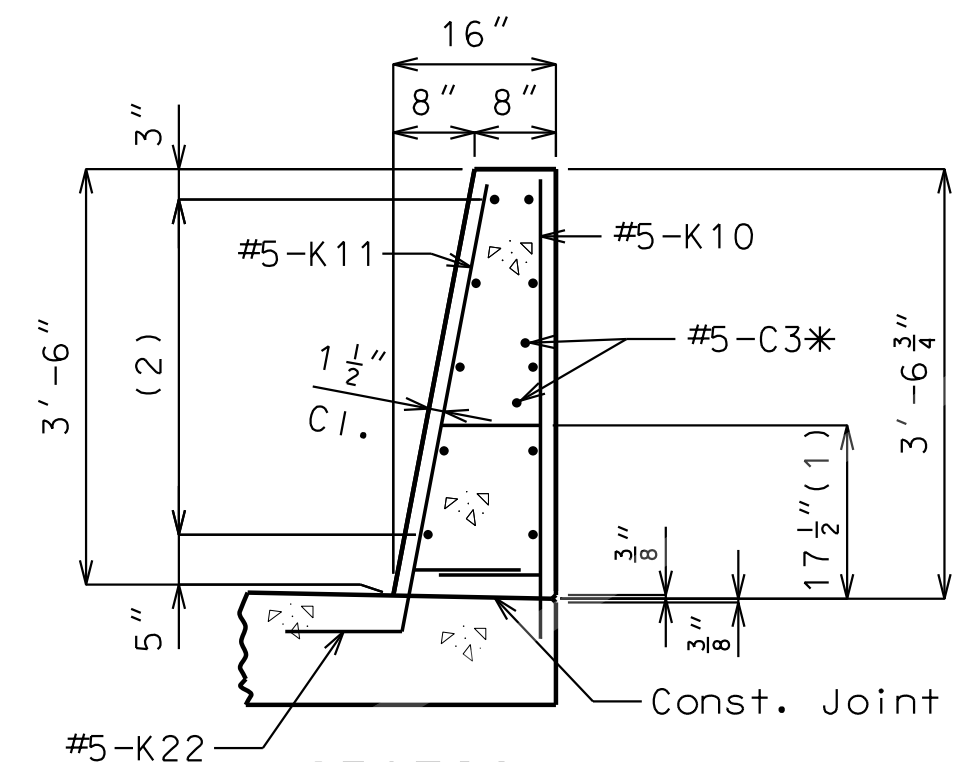
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



AT END BENT NO. 1

AT END BENT NO. 6

ELEVATION

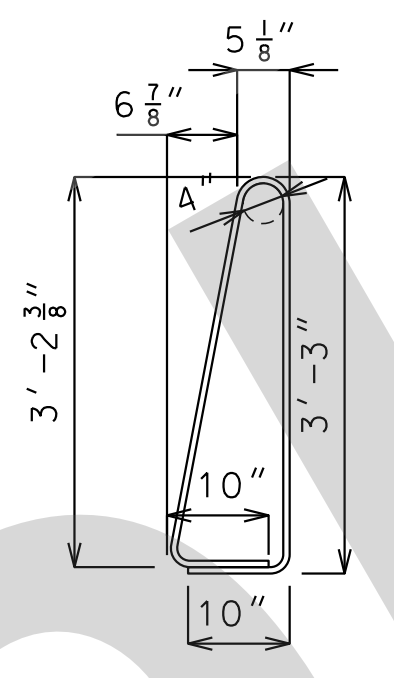


SECTION A-A

The cross-sectional area above the slab is 3.54 square feet.

- (1) To top of bar
- (2) 5-#5-R15 or 5-#5-R16 @ 8 1/2" each face.

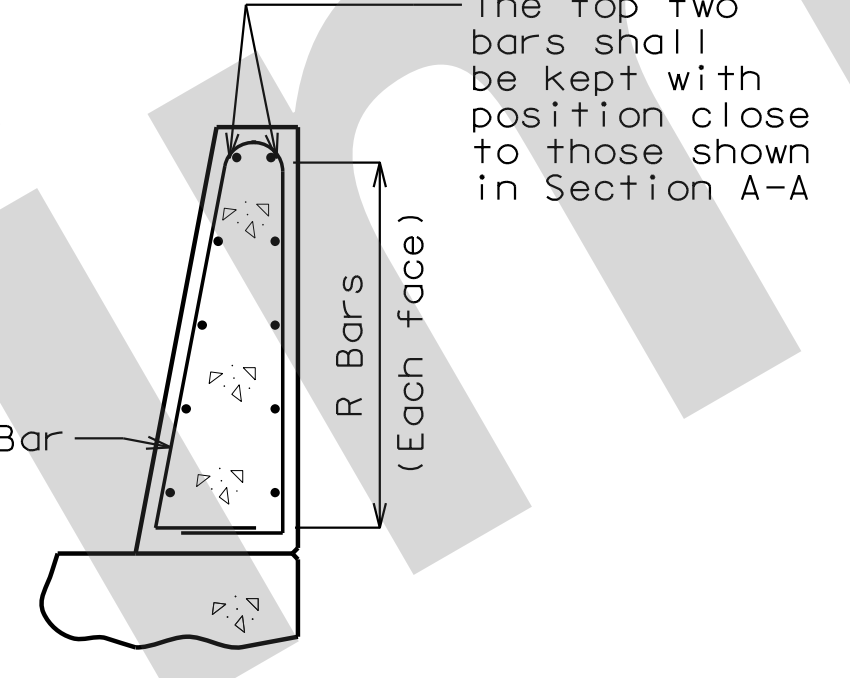
* Slip-formed option only



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

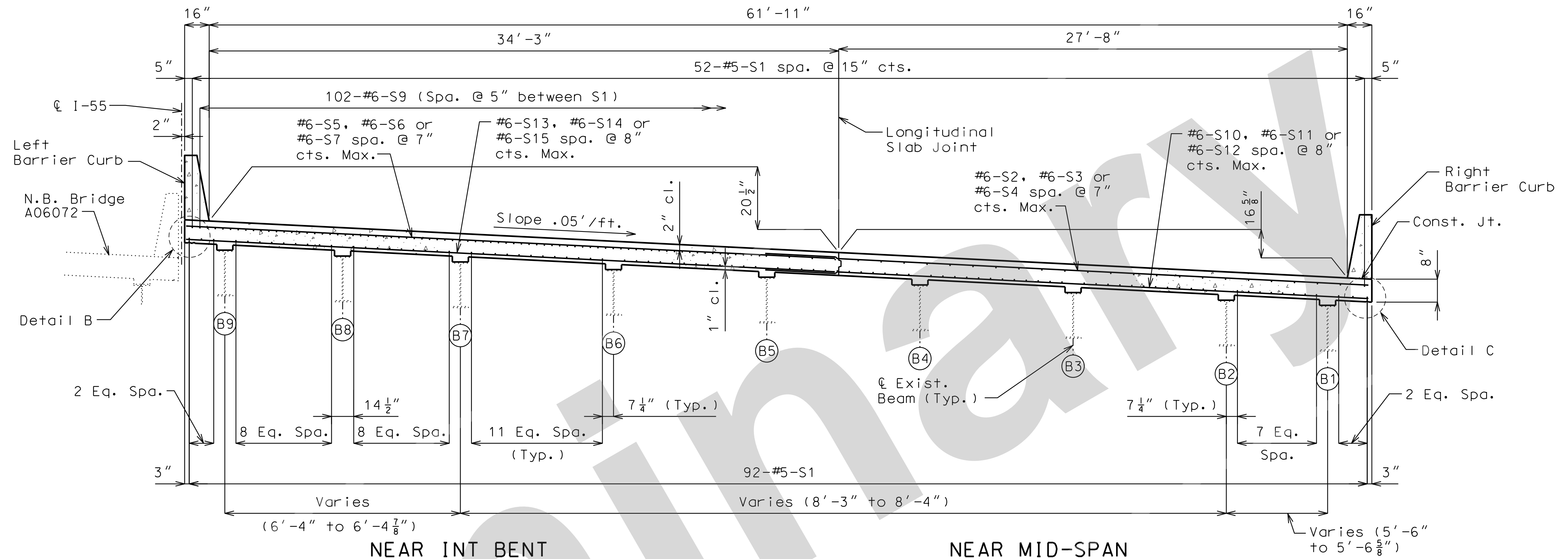


TYPE D BARRIER AT APPROACH MEDIAN

U.I.P., REDECK AND REHABILITATE EXISTING (44'-54'-66'-54'-44') COMPOSITE WIDE FLANGE BEAM SPANS (SKEW VARIES)

Required Lap Length For Bar Splices (1)	
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.



General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
H20-44 (1961)
HS20-44 Modified (1983 and 2021)
15 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf

Design Unit Stresses:
Class B-1 Concrete (Barrier) f'c = 4,000 psi
Class B-2 Concrete (End Bent, Superstructure, except Barrier) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:
The top, sides and bottom of the top flanges of existing steel beams shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

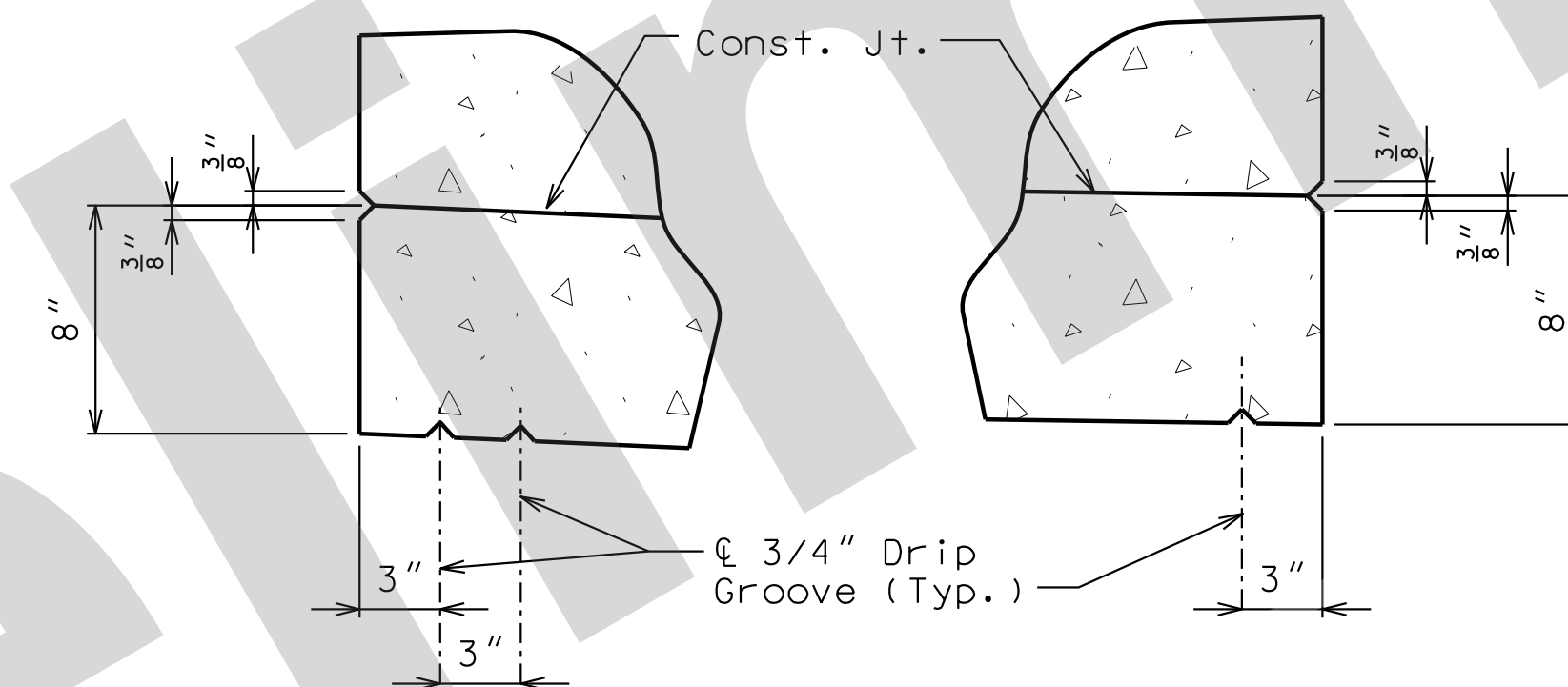
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Longitudinal dimensions are based on the original design plans.

Contractor shall verify all dimensions in field before ordering new material.

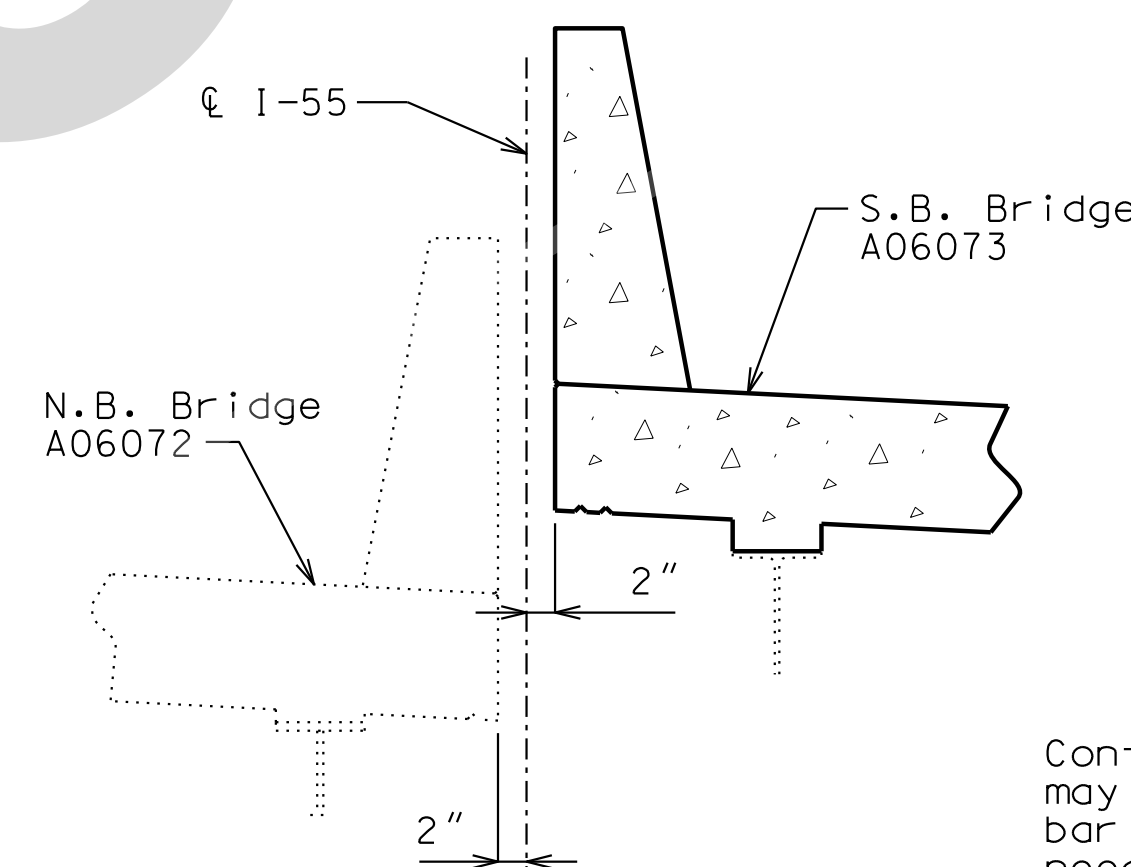
The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Traffic Handling:
Structure to be closed during construction. Traffic to be maintained on southbound structure during construction. See roadway plans for traffic control.

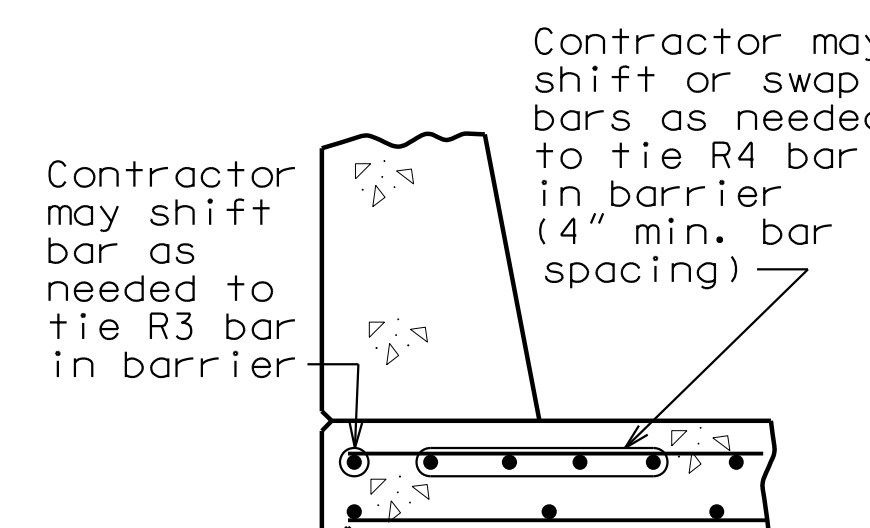


DETAIL B

DETAIL C



PART SECTION THRU MEDIAN



OPTIONAL SHIFTING TOP BARS AT BARRIER

Estimated Quantities		
Item		Total
Removal of Existing Bridge Deck	sq. foot	17132
Removal of Wing	lump sum	1
Bridge Approach Slab (Major)	sq. yard	275
Slab on Steel	sq. yard	1902
Class B-2 Concrete	cu. yard	4.2
Type D Barrier	linear foot	567
Substructure Repair (Unformed)	sq. foot	350
Conduit System on Structure	lump sum	1
Reinforcing Steel (Epoxy Coated)	pound	360
Non-Destructive Testing	linear foot	482
Reset Bearings	each	12

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	442
Reinforcing Steel (Epoxy Coated)	pound	157,930

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

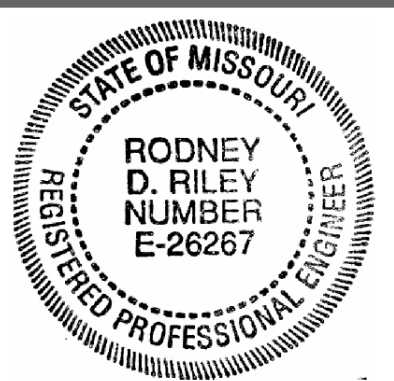
Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

**REPAIRS TO BRIDGE:
ROUTE I-55 SB OVER GRAVOIS CREEK**

ROUTE I-55 FROM ROUTE I-44 TO ROUTE I-270
ABOUT 9.1 MILES SOUTH OF ROUTE I-44
STATION 7+17.00± (MATCH EXISTING)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
12-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY SUITE 2121 ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

17:23 12-AUG-2021

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Pouring and Finishing Slab:

The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

The contractor shall pour and satisfactorily finish the slab pours at a minimum rate of 25 cubic yards per hour. Slab shall be poured upgrade from end to end.

The longitudinal construction joint may be omitted with the approval of the engineer. When the longitudinal joint is omitted, the minimum rate of pour shall be 53 cubic yards per hour without retarder and 32 cubic yards per hours with retarder.

Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

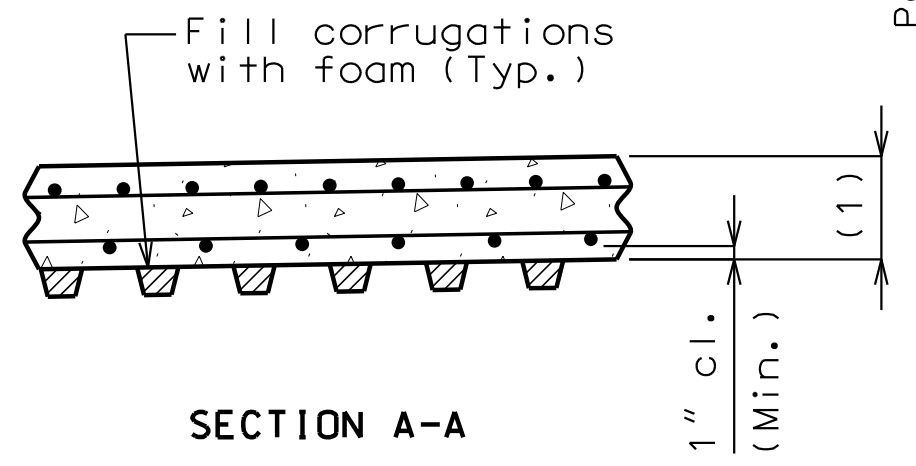
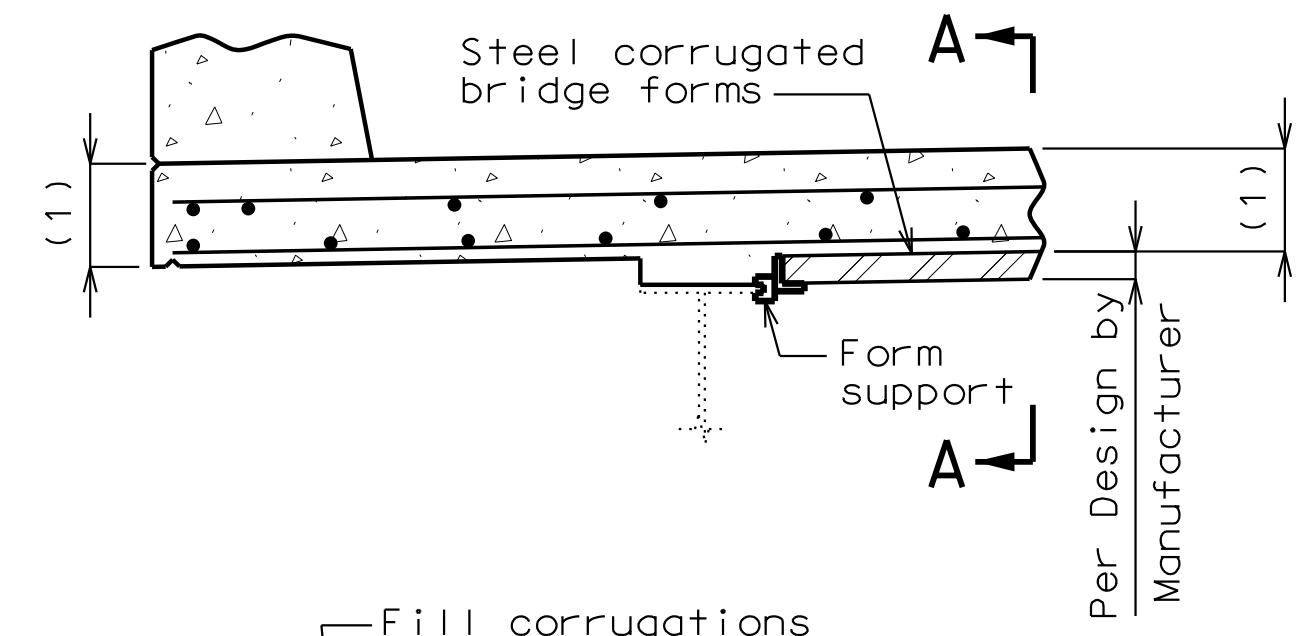
Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Haunching:

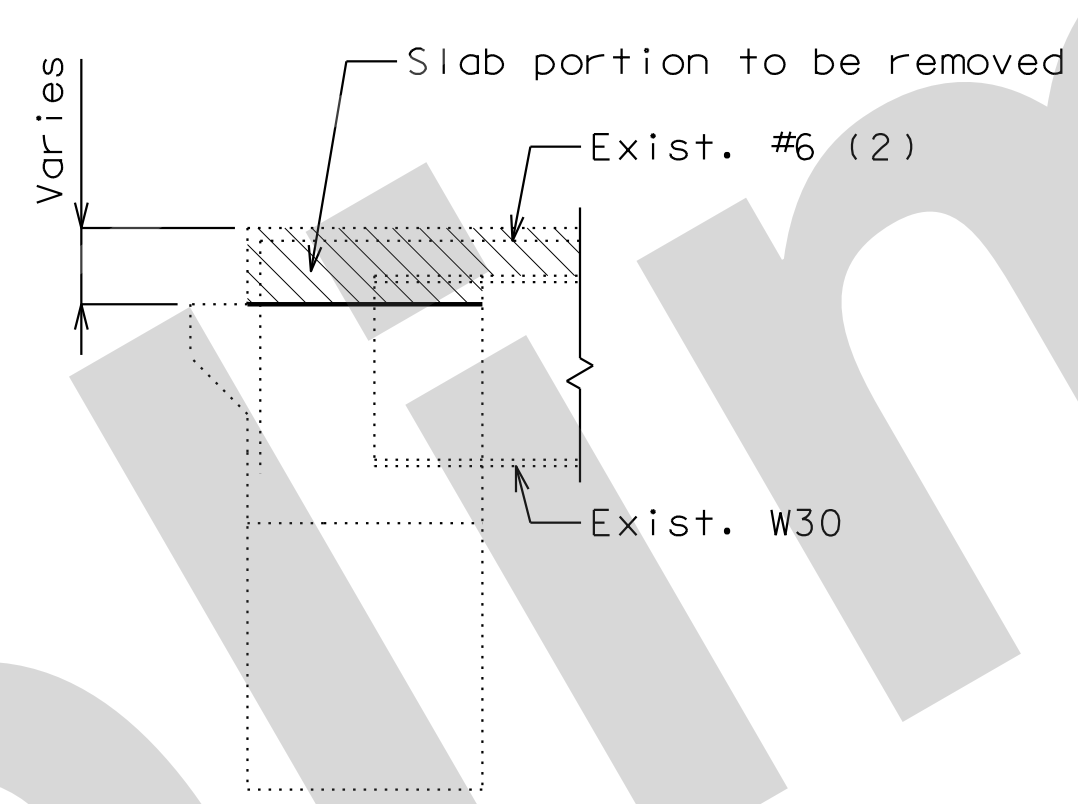
(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

Bearings

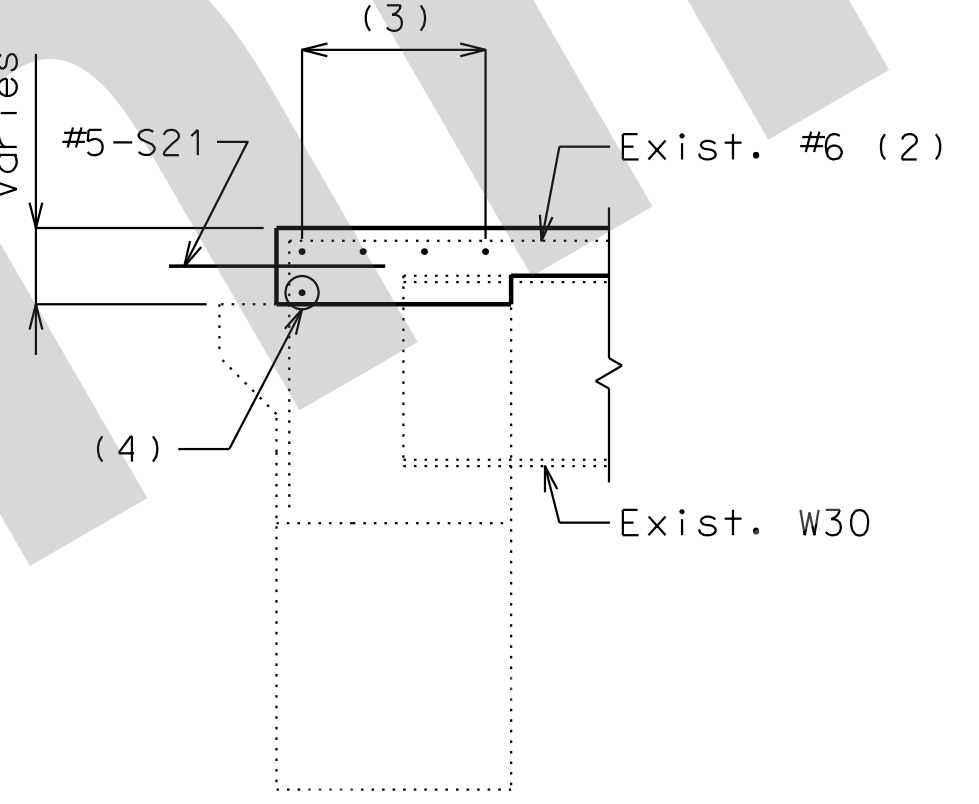
The cost to reset bearings, including all equipment, material, and labor will be considered completely covered by the contract unit price for Reset Bearings.



OPTIONAL STAY-IN-PLACE FORM DETAILS



PART SECTION THRU SLAB REMOVAL AT END BENTS

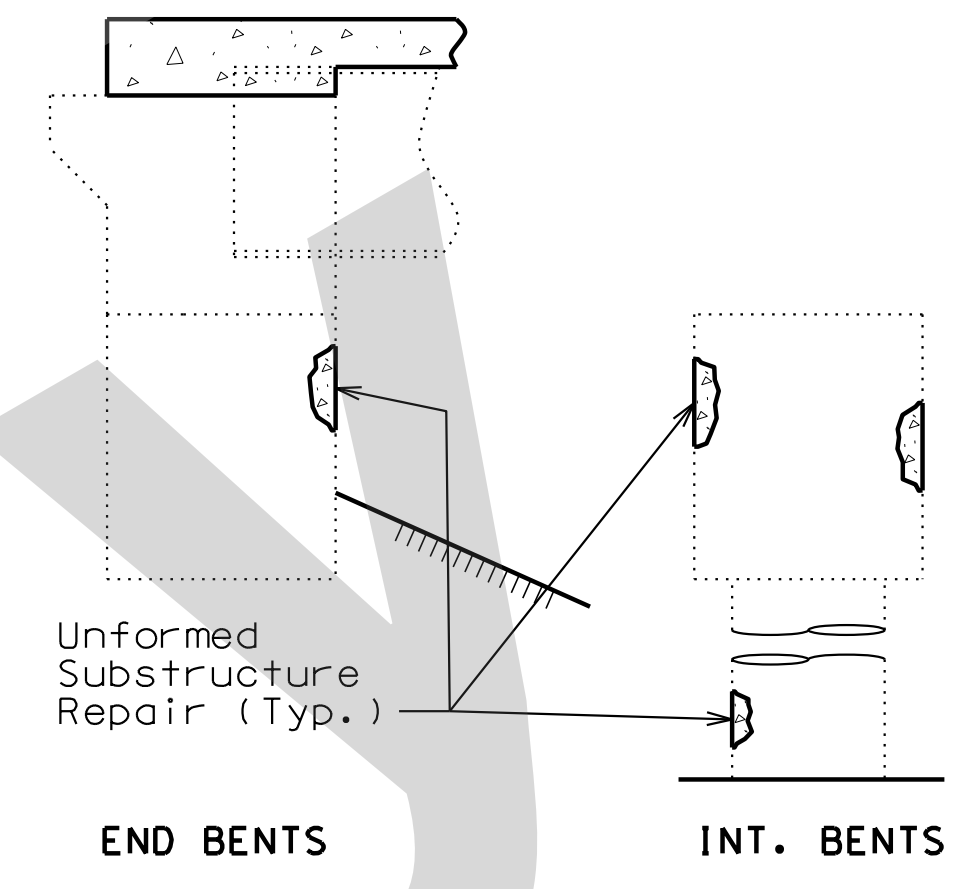


PART SECTION THRU SLAB AT END BENTS

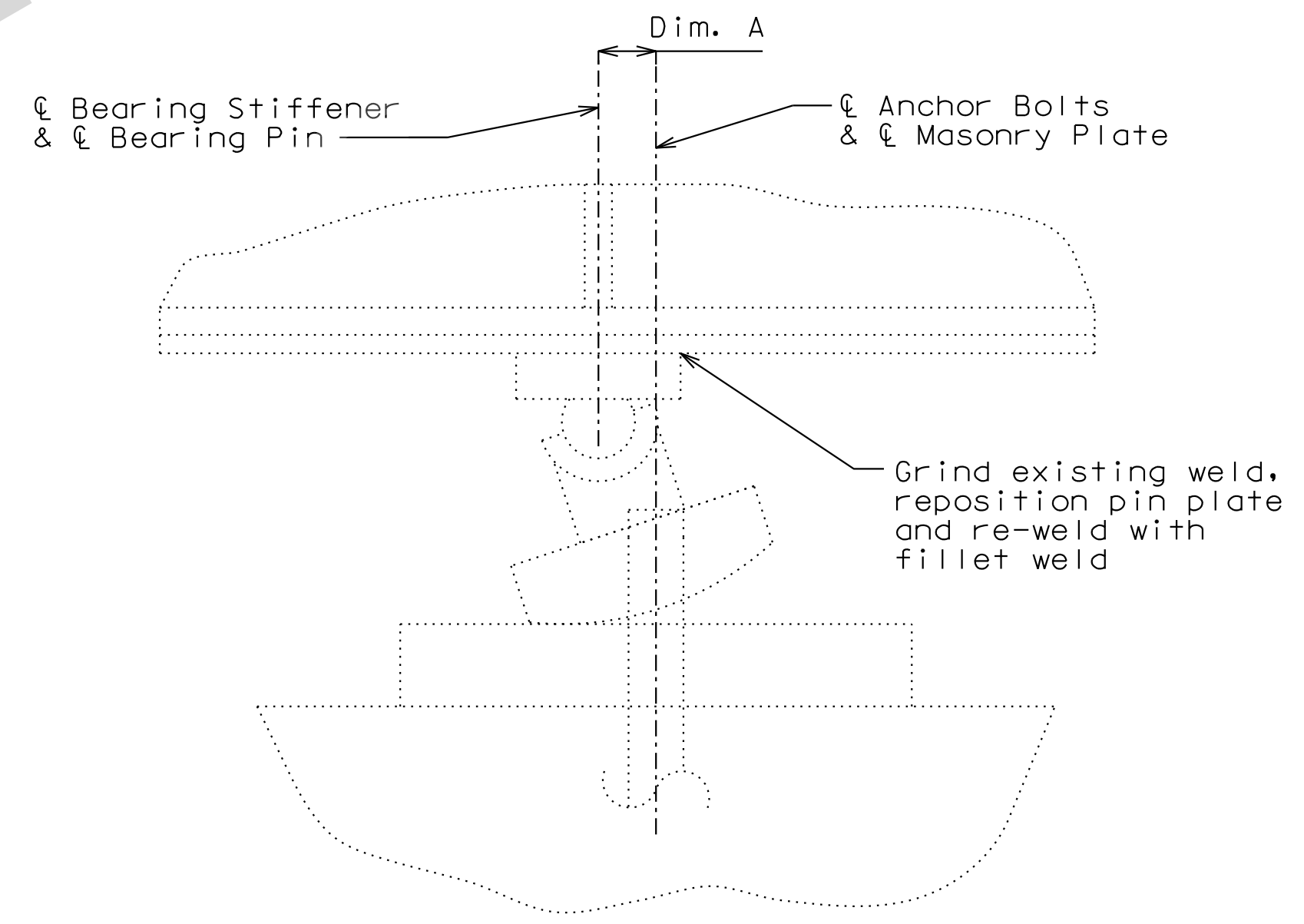
- (2) Embedded #6 bar shall be cleaned, straightened, and reused.
- (3) 4-#6-S17 lapped with 4-#6-S18 at End Bent 1.
4-#6-S19 lapped with 4-#6-S20 at End Bent 6.
- (4) 1-#6-S17 lapped with 1-#6-S18 at End Bent 1.
1-#6-S19 lapped with 1-#6-S20 at End Bent 6.

REMOVE EXISTING CONDUIT

Note: The cost to remove the existing conduits will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck.



TYPICAL SECTION SHOWING UNFORMED SUBSTRUCTURE REPAIR



RESET BEARINGS FOR GIRDERS 3 THRU 8 AT BENTS 2 AND 5

DIMENSION A:

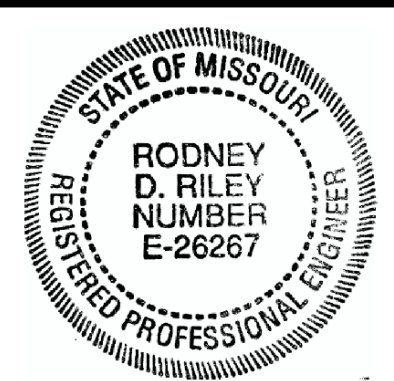
Dim. A = 0" at 60°F.

Bent 2: Adjust Dim. A 1/16" for each 10°F fall or rise in temperature from 60° at time of resetting.

Bent 5: Adjust Dim. A 1/8" for each 10°F fall or rise in temperature from 60° at time of resetting.

For a temperature above 60°F, the adjustment shall move the bearing pin toward the adjacent End Bent.

For a temperature below 60°F, the adjustment shall move the bearing pin away from the adjacent End Bent.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

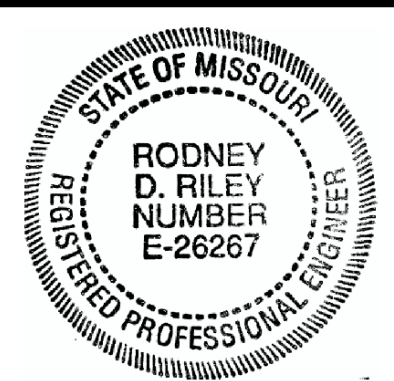
JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

REPAIR DETAILS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 14



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

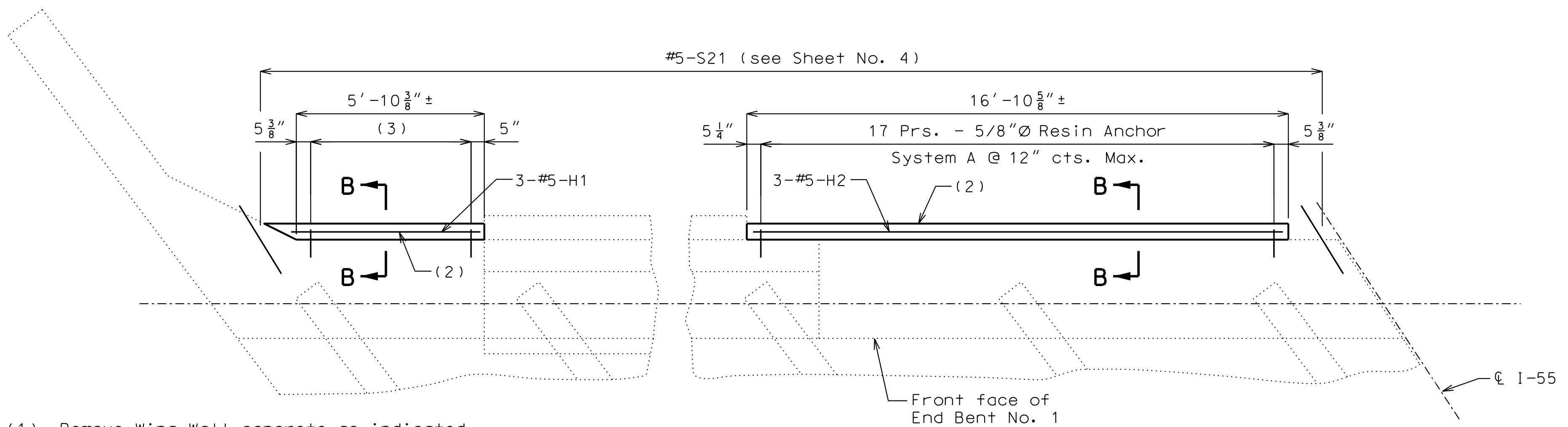
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

ST. LOUIS, MISSOURI 63102-2121

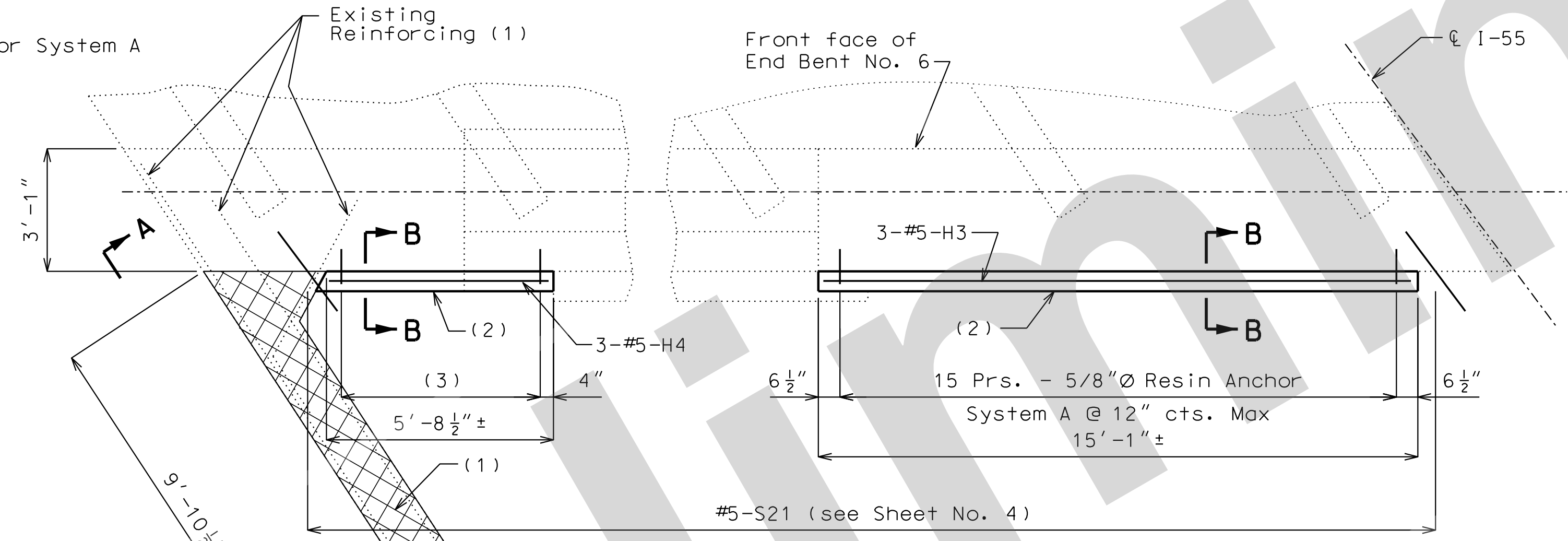
CERTIFICATE OF AUTHORITY #00704

REV.

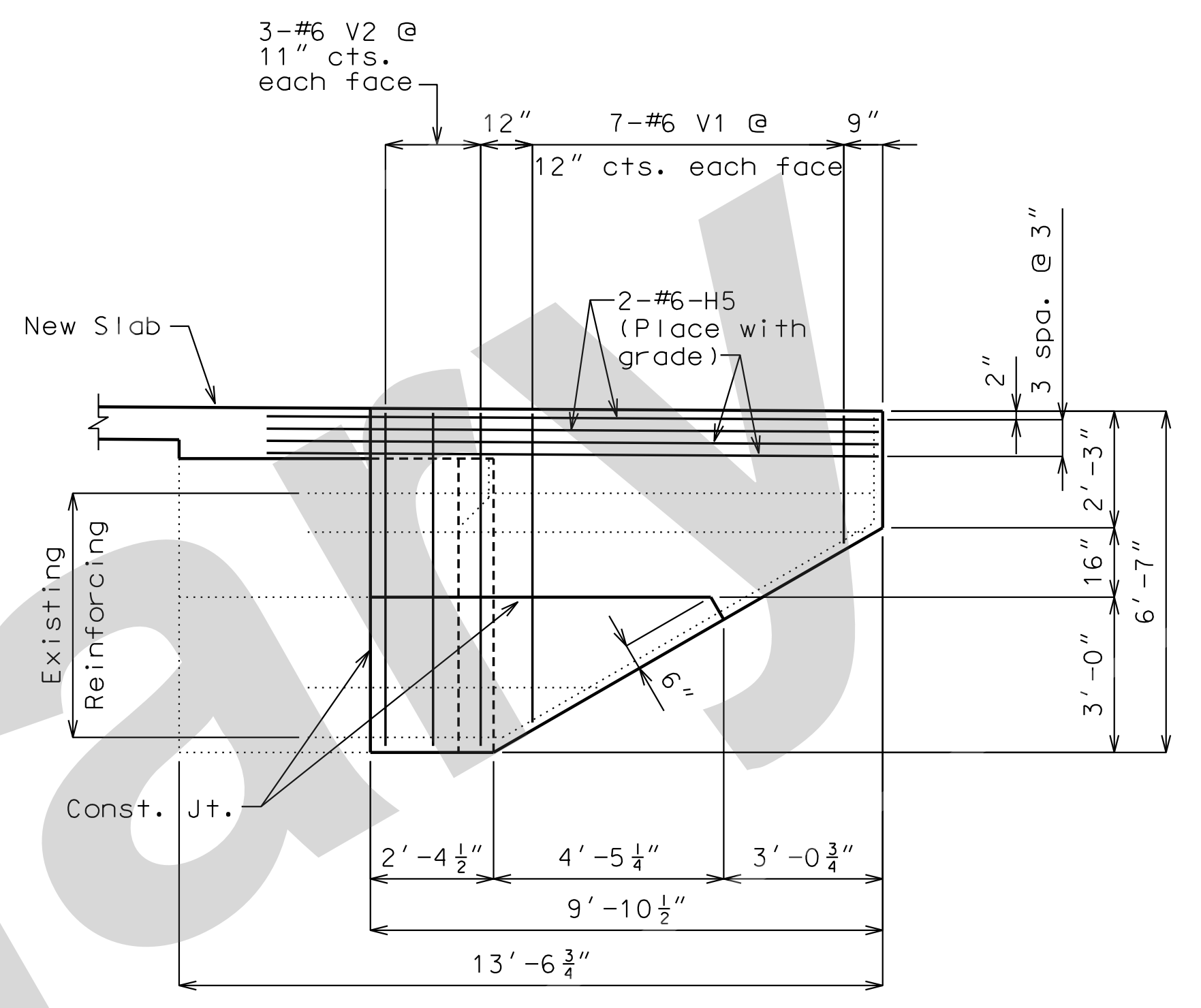


- (1) Remove Wing Wall concrete as indicated. Clean and straighten embedded reinforcing.
- (2) Remove and replace existing 6" corbel. See Section B-B.
- (3) 5 Prs. - 5/8" Ø Resin Anchor System A @ 12" cts. Max.

PART PLAN - END BENT NO. 1



PART PLAN - END BENT NO. 6



VIEW A-A

Notes:

The cost for wing wall and barrier removal will be considered completely covered by the contract lump sum price for Removal of Wing.

For details and reinforcing of Type D Barrier, see Sheet No. 9.

Concrete in the wing wall and corbel shall be Class B-2.

The cost to construct the wing wall, except for reinforcing steel, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.

The cost to repair the approach slab corbel, including removal, all material (except for reinforcing steel), labor and equipment, will be considered completely covered by the contract unit price for Class B-2 Concrete.

The cost of reinforcing steel for the wing wall and approach slab corbel will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).

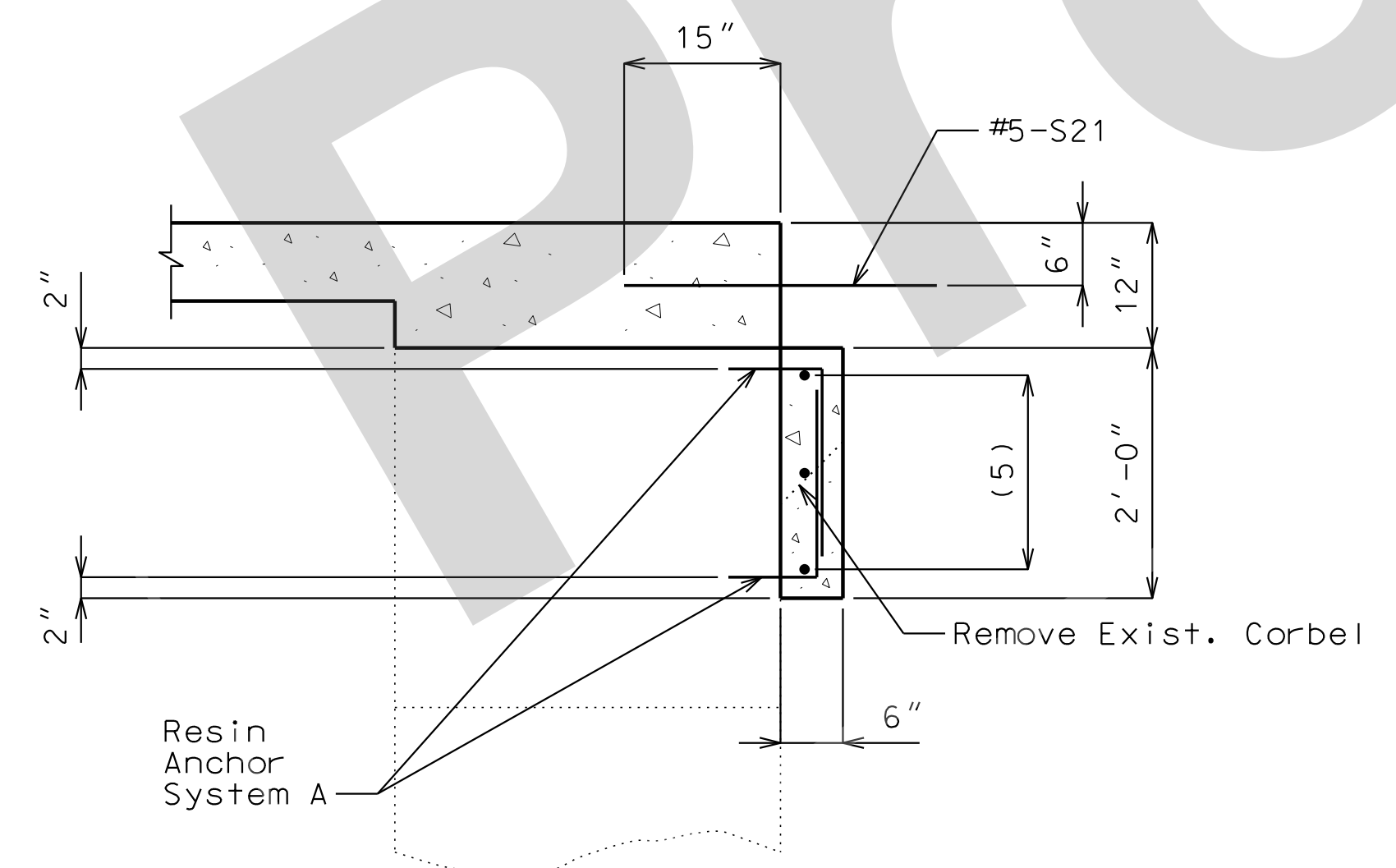
RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

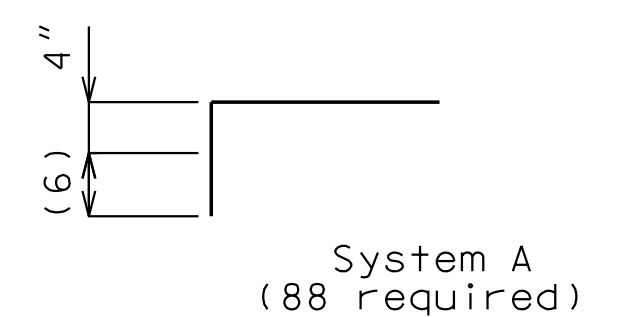
The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.

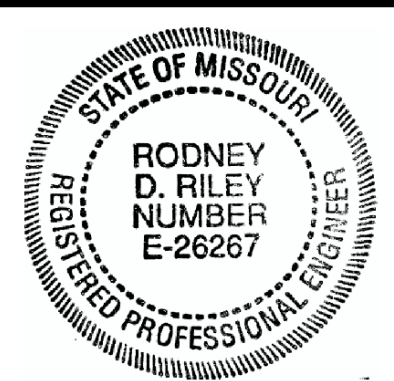


SECTION B-B



DETAILS OF RESIN ANCHOR SYSTEM

- (5) 3-#5-H1, H2, H3 or H4, equally spaced.
- (6) Manufacturer's recommended embedment length (5" min.)



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DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

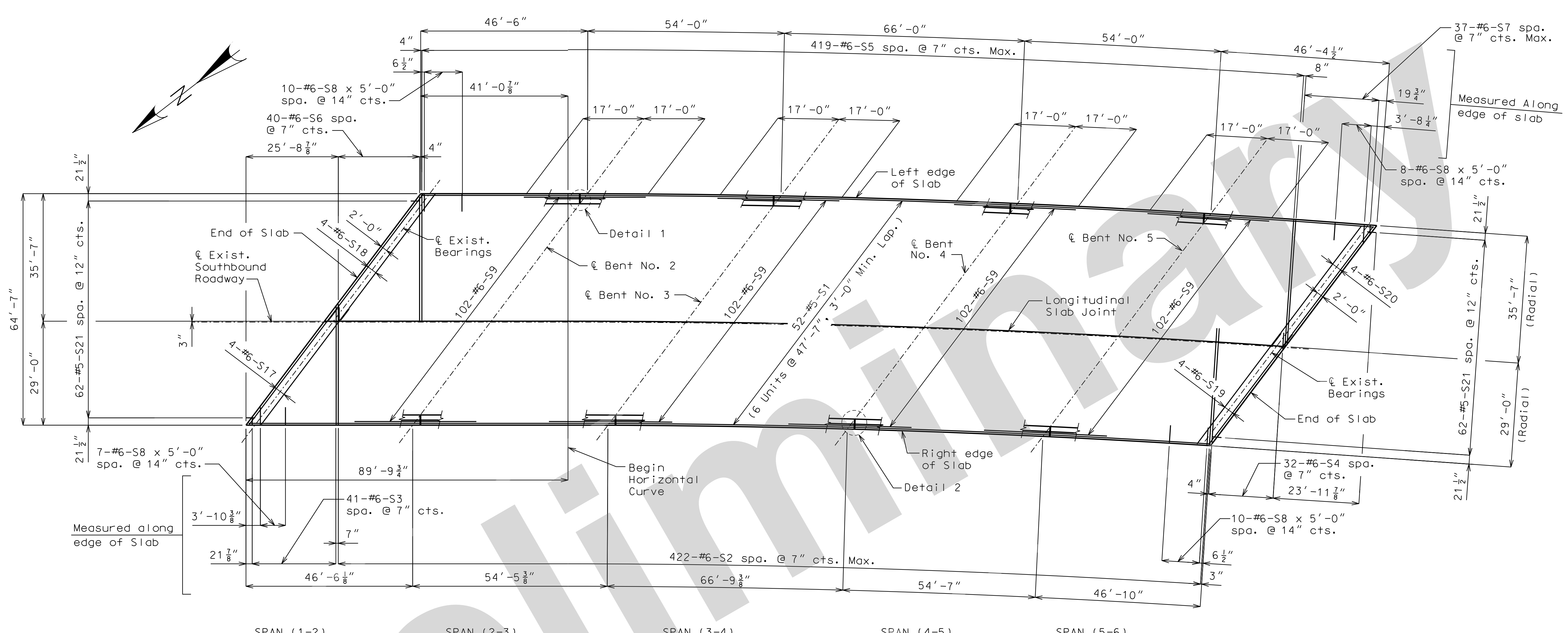
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

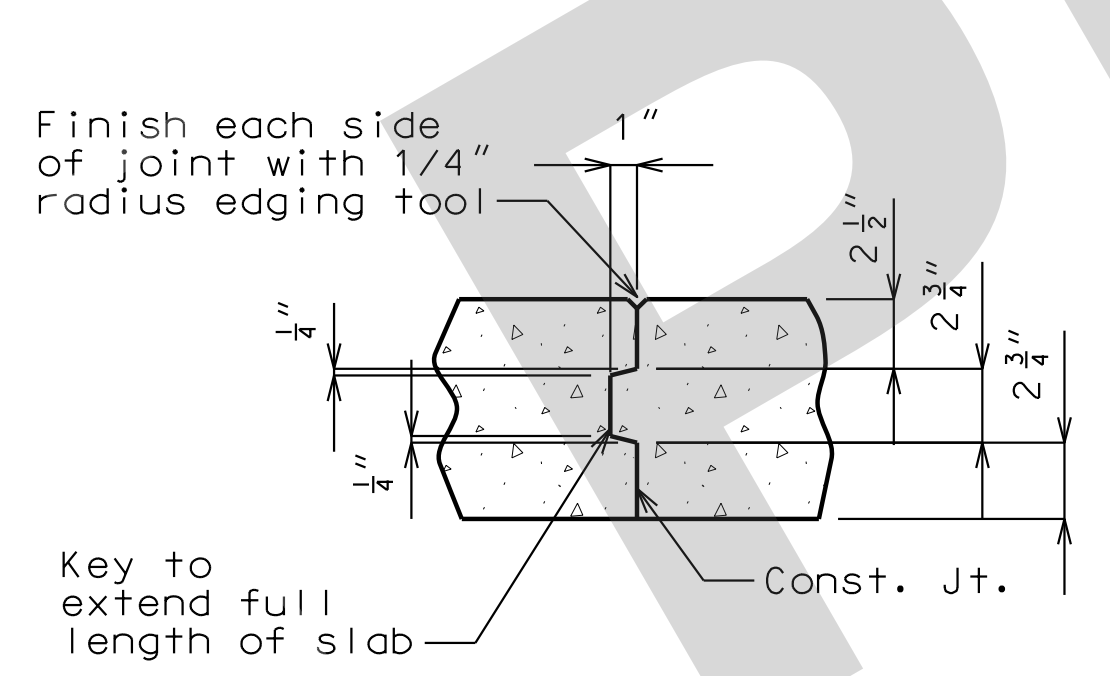
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

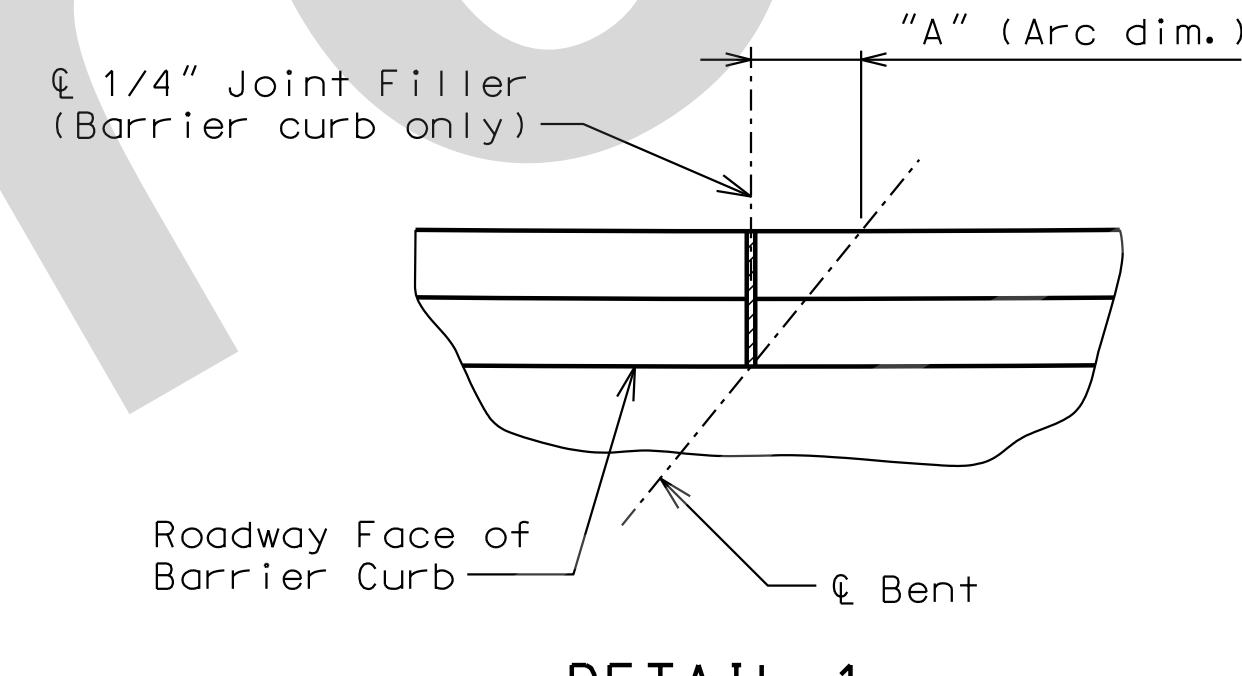
REV.



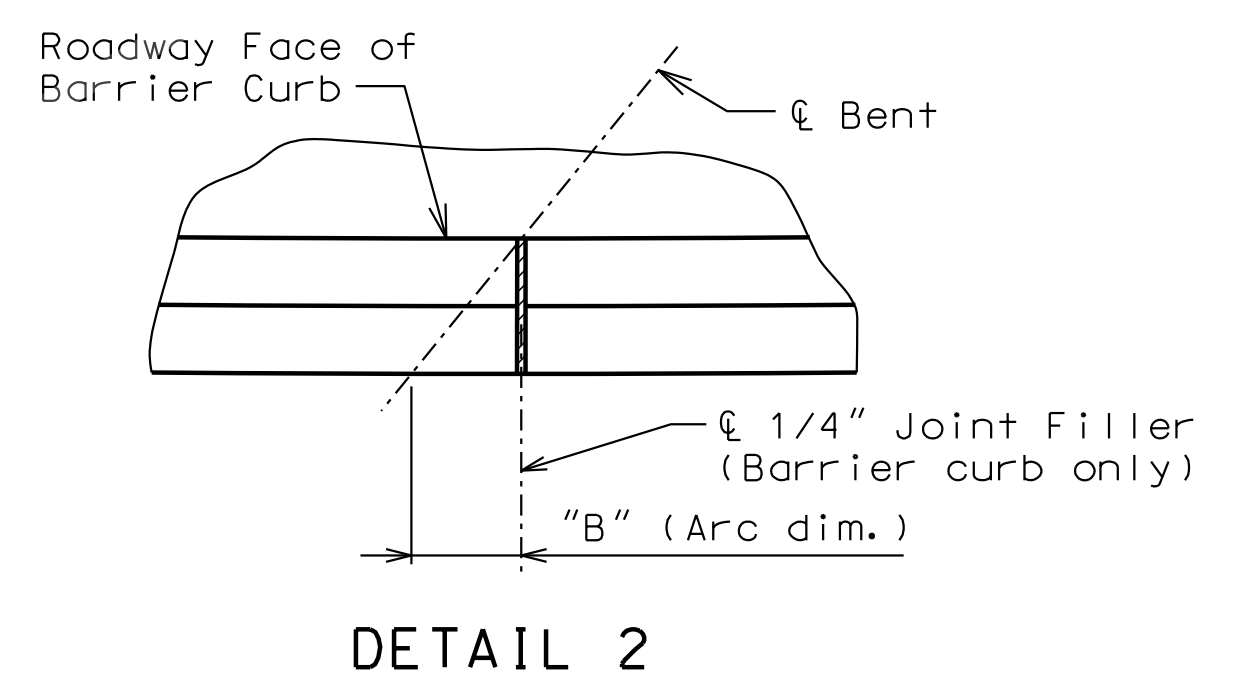
TOP SLAB REINFORCEMENT PLAN



LONGITUDINAL SLAB JOINT



DETAIL 1



DETAIL 2

Bent	"A"	"B"
2	12 1/8"	12 3/8"
3	12"	11 7/8"
4	11 3/8"	11 3/8"
5	10 7/8"	10 7/8"

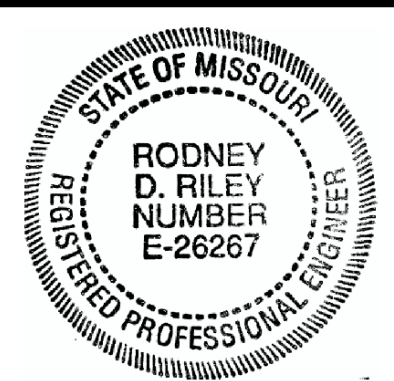
- Notes:
- For General Notes, see Sheet No. 1.
 - Longitudinal dimensions shown are horizontal arc dimensions.
 - Transverse reinforcement in curved section, to be placed radially and spaced along edge of slab as shown.
 - For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 - For Section thru Haunch, see Sheet No. 5.
 - For Bottom Slab Reinforcement Plans, see Sheet No. 5.
 - For Slab Ordinates, see Sheet No. 6.
 - For Details of Safety Barrier Curb, see Sheet Nos. 7 and 8.

SLAB REINFORCEMENT DETAILS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 14



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

DATE

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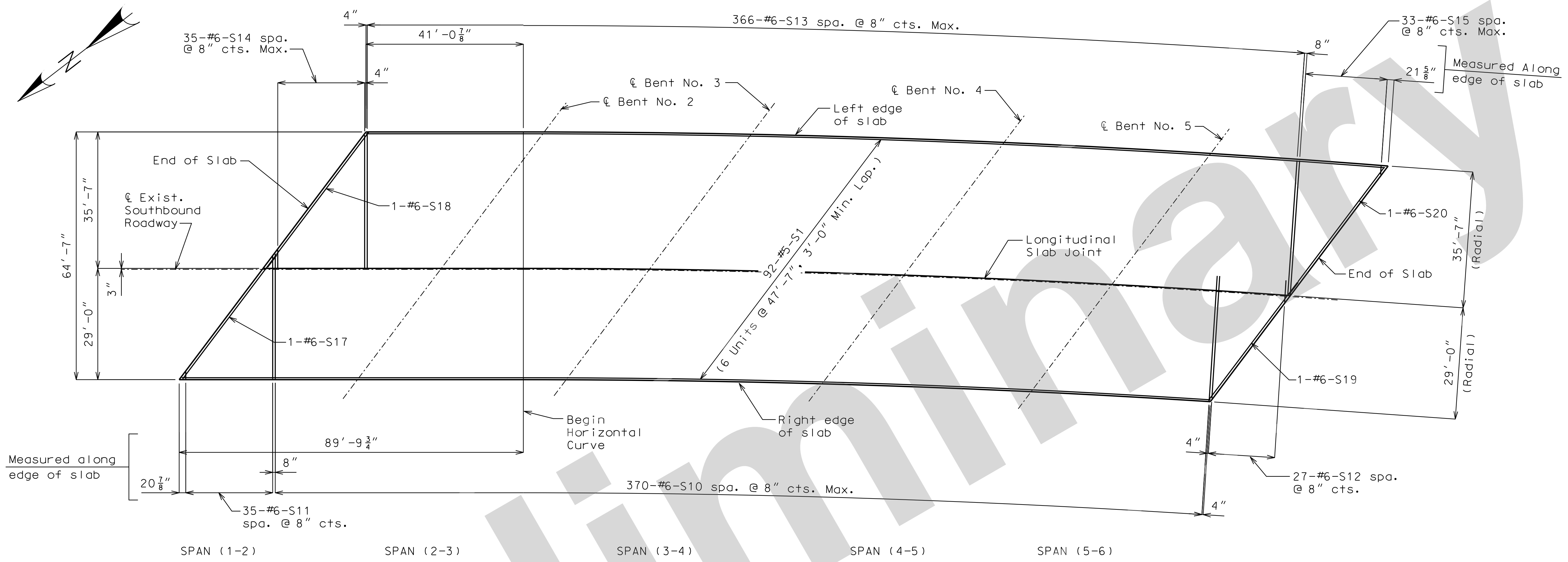
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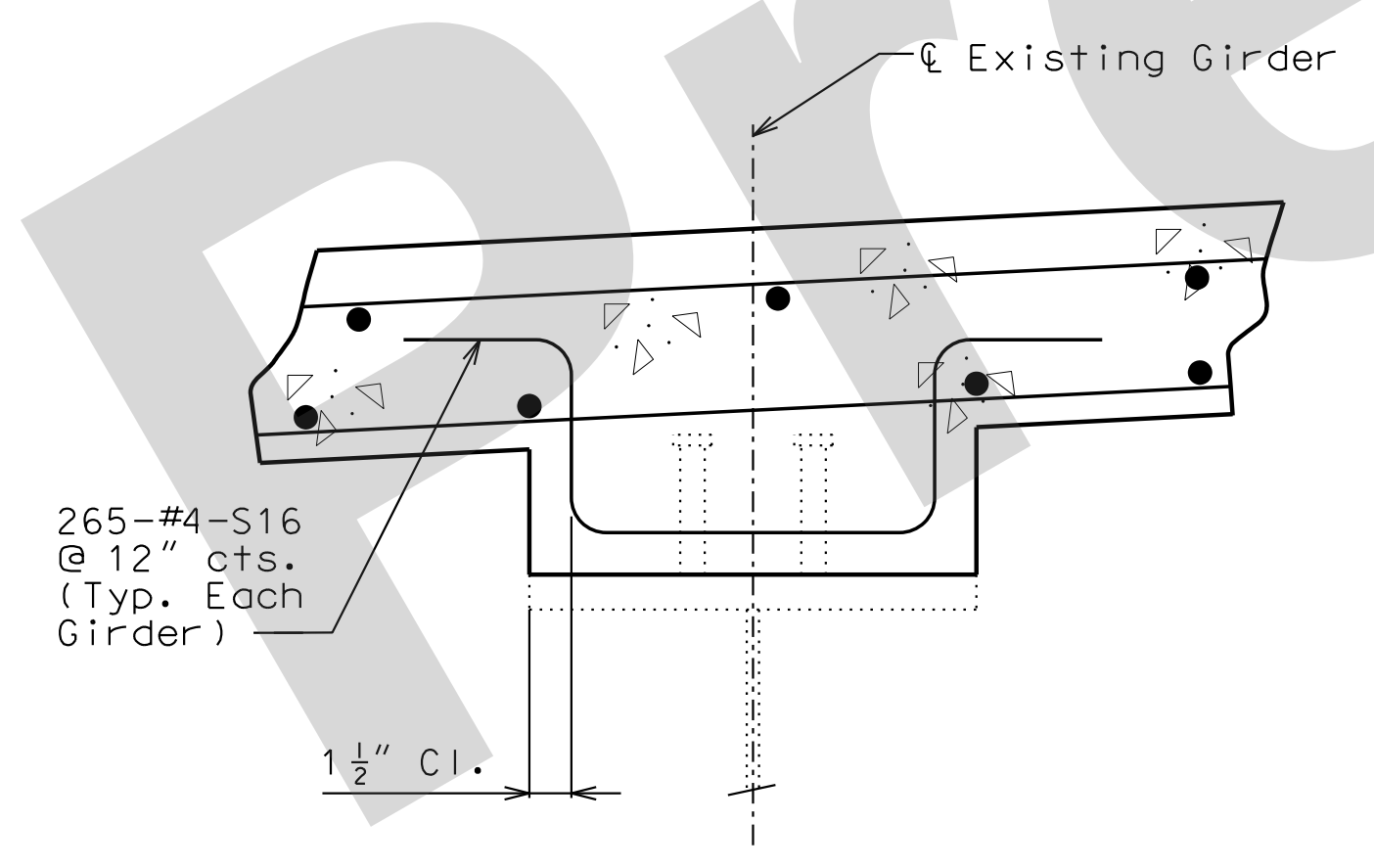
DATE

DESCRIPTION

DATE



BOTTOM SLAB REINFORCEMENT PLAN



SECTION THRU HAUNCH

SLAB REINFORCEMENT DETAILS

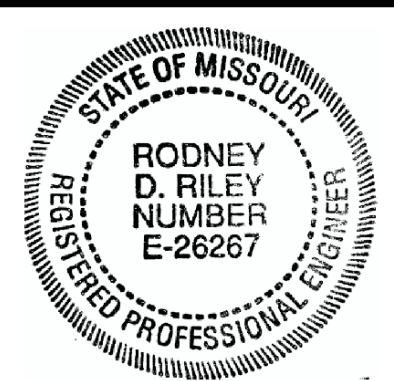
- Notes:
- For General Notes, see Sheet No. 1.
 - For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 - For Top Slab Reinforcement Plan, see Sheet No. 4.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 14

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS JOB NO. J613187 CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODDOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

General Notes:

* Slip-formed option only.
Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints (except at end bents) normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.

Concrete in barrier shall be Class B-1.

Measurement of Right Barrier is to the nearest linear foot, measured along the outside top of slab from end of wing to end of wing.

Measurement of Left Barrier is to the nearest linear foot, measured along the outside top of slab from end of bridge approach slab to end of bridge approach slab.

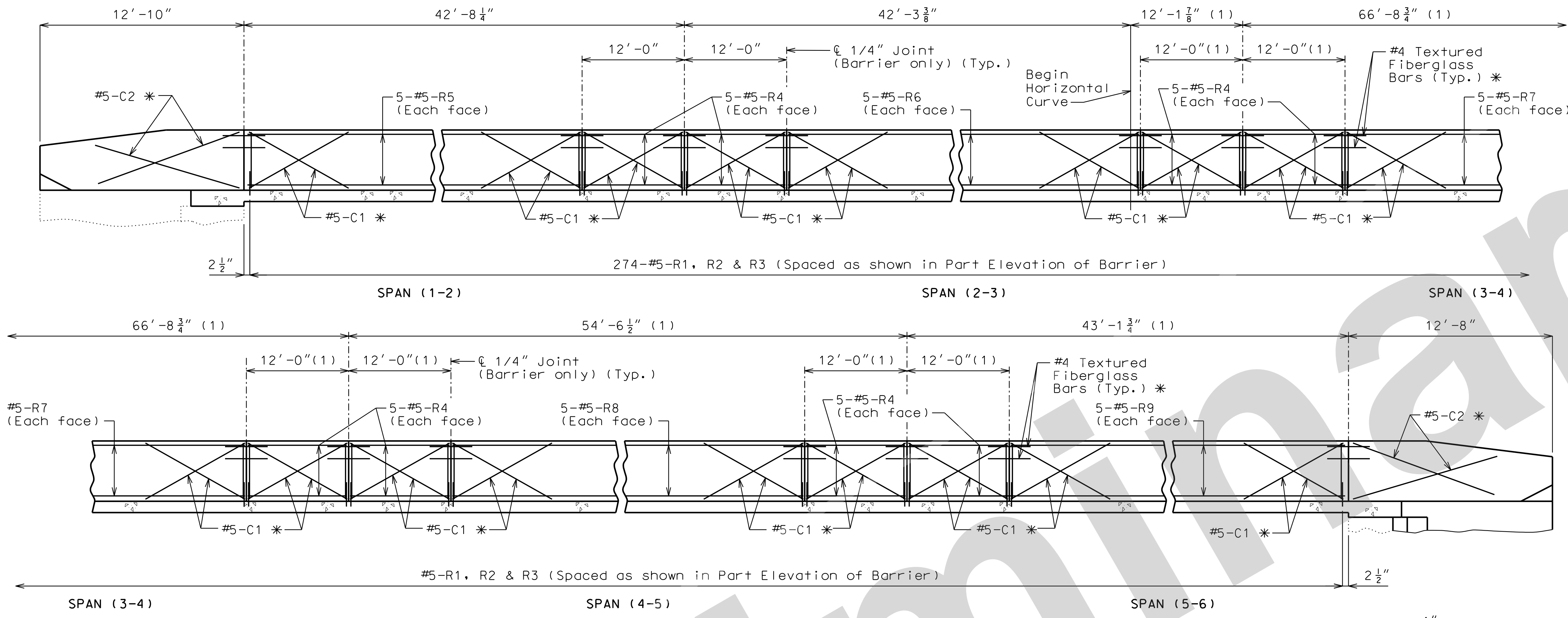
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of right barrier and roadway face of left barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.

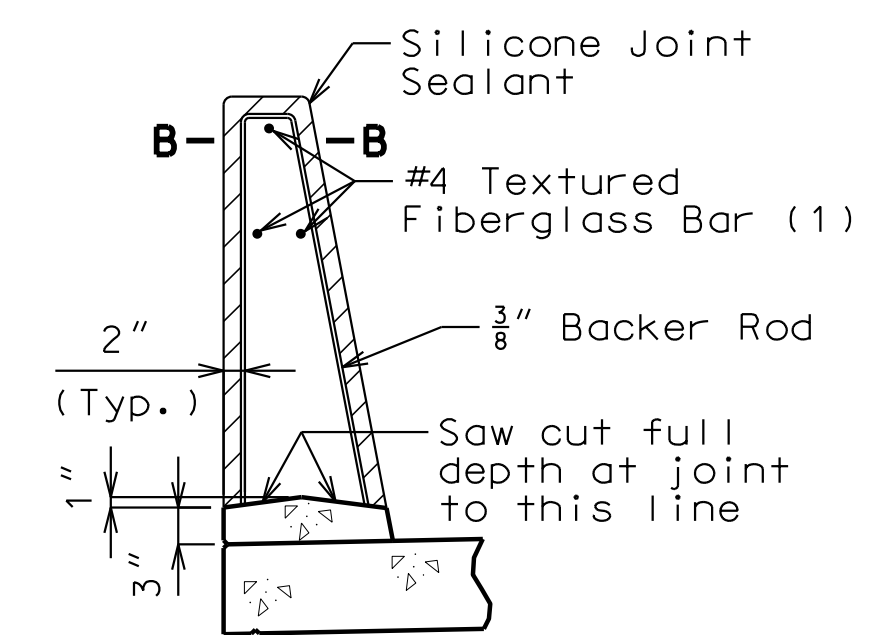
Conduits in Right Barrier Curb not shown for clarity.

Work this sheet with Sheet No. 9.

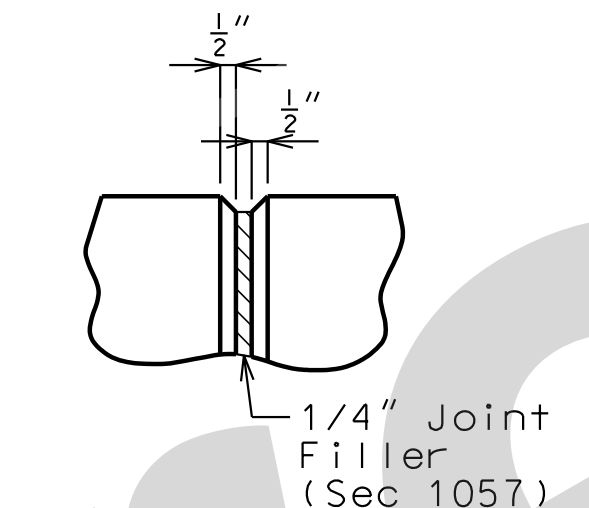


ELEVATION OF RIGHT BARRIER CURB

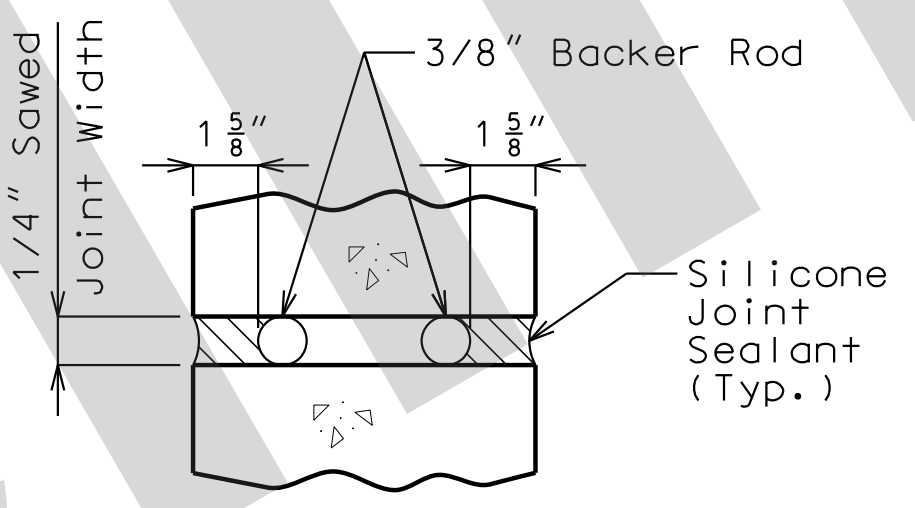
(1) Horizontal arc dimension.



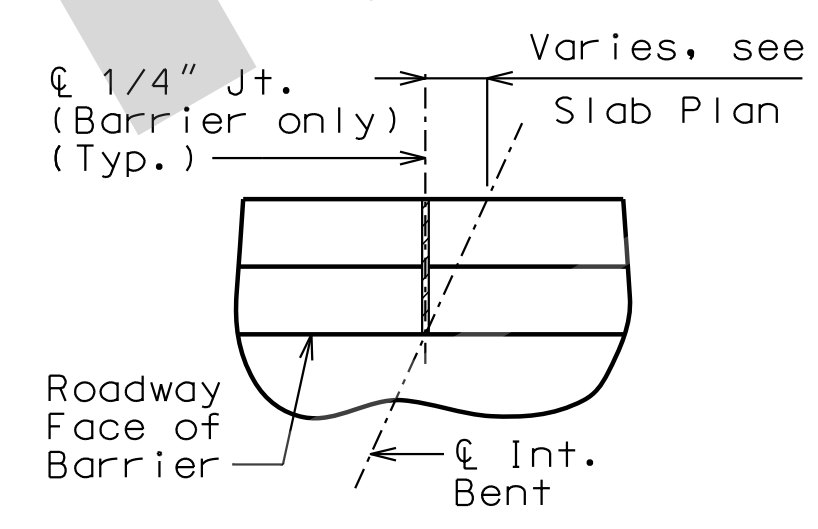
SECTION THRU SAW CUT JOINT



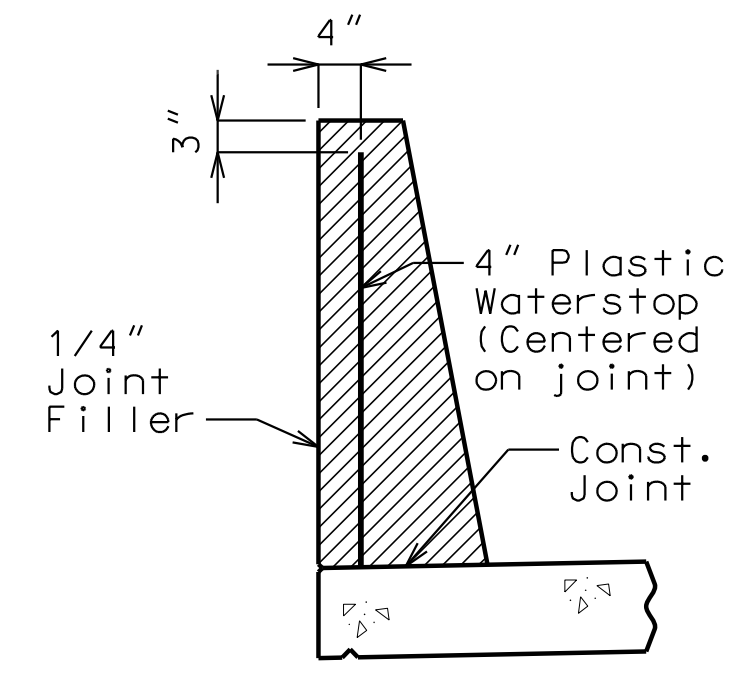
PART ELEVATION AT FORMED JOINT



SECTION B-B



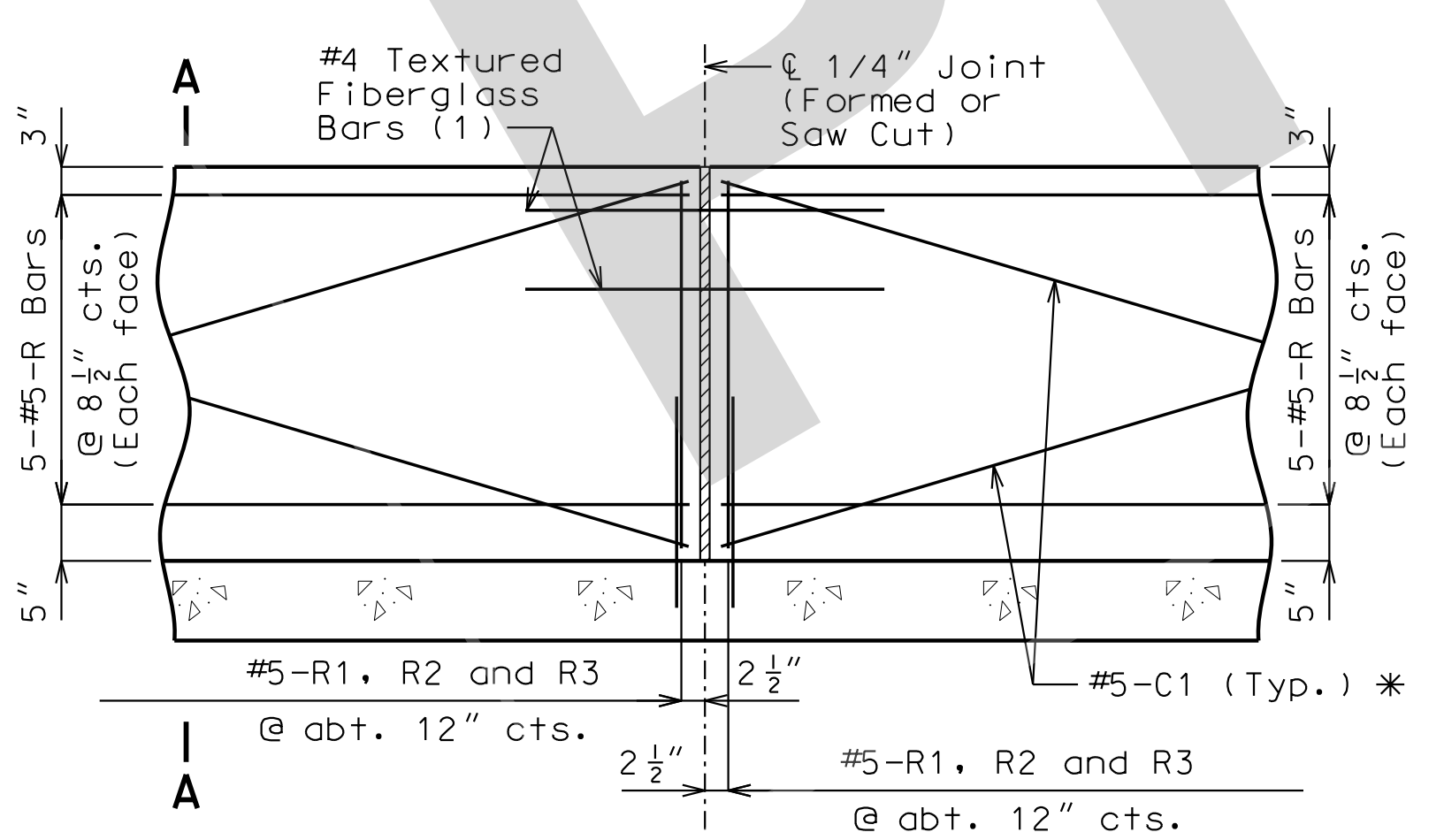
PART PLAN SHOWING JOINT LOCATION



WATERSTOP DETAIL

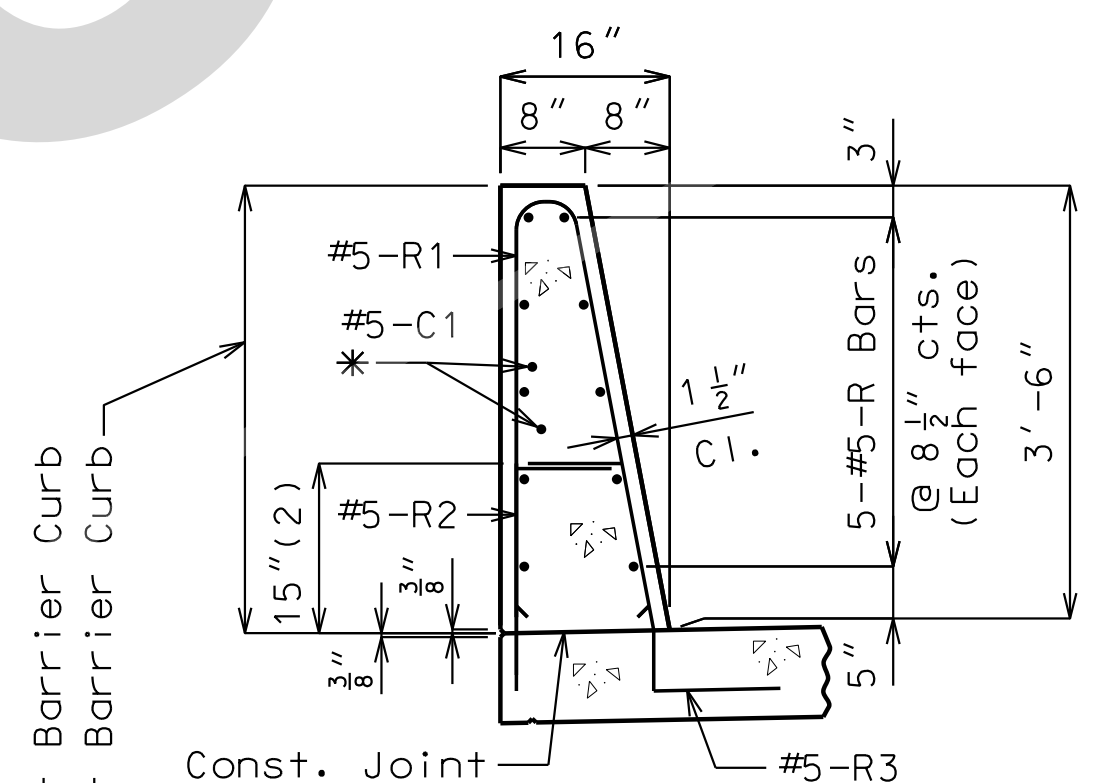
Plastic waterstop shall be placed in all formed joints for Left Barrier Curb only.

Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.



PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only

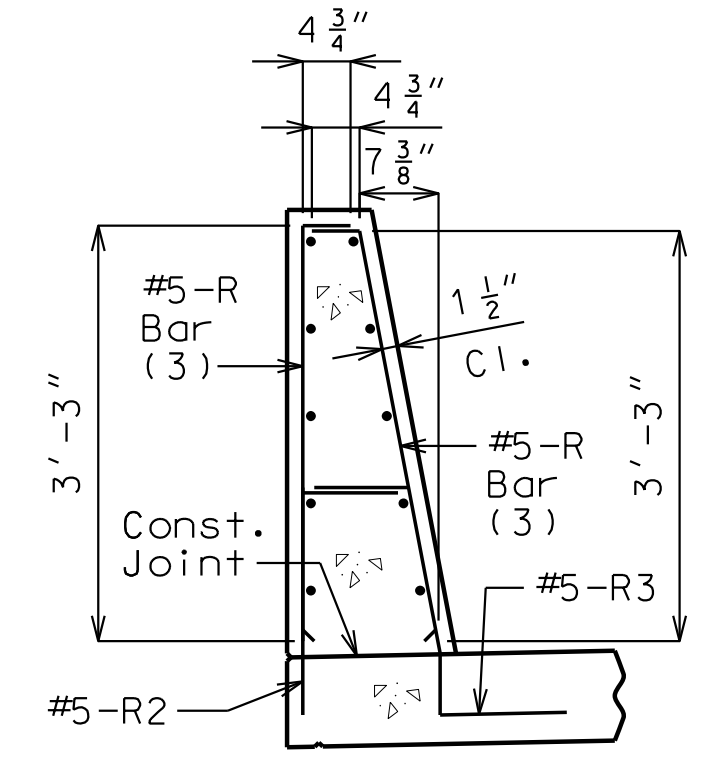


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.54 sq. ft. for Right Barrier Curb and 3.46 sq. ft. for Left Barrier Curb

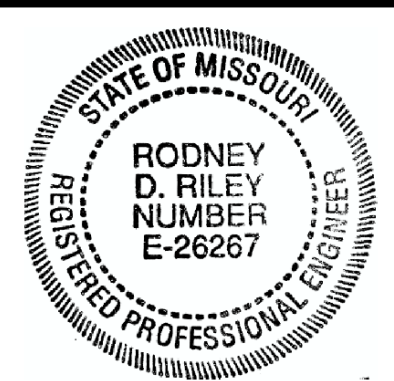
(2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

TYPE D BARRIER - RIGHT CURB



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DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 9

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

DATE

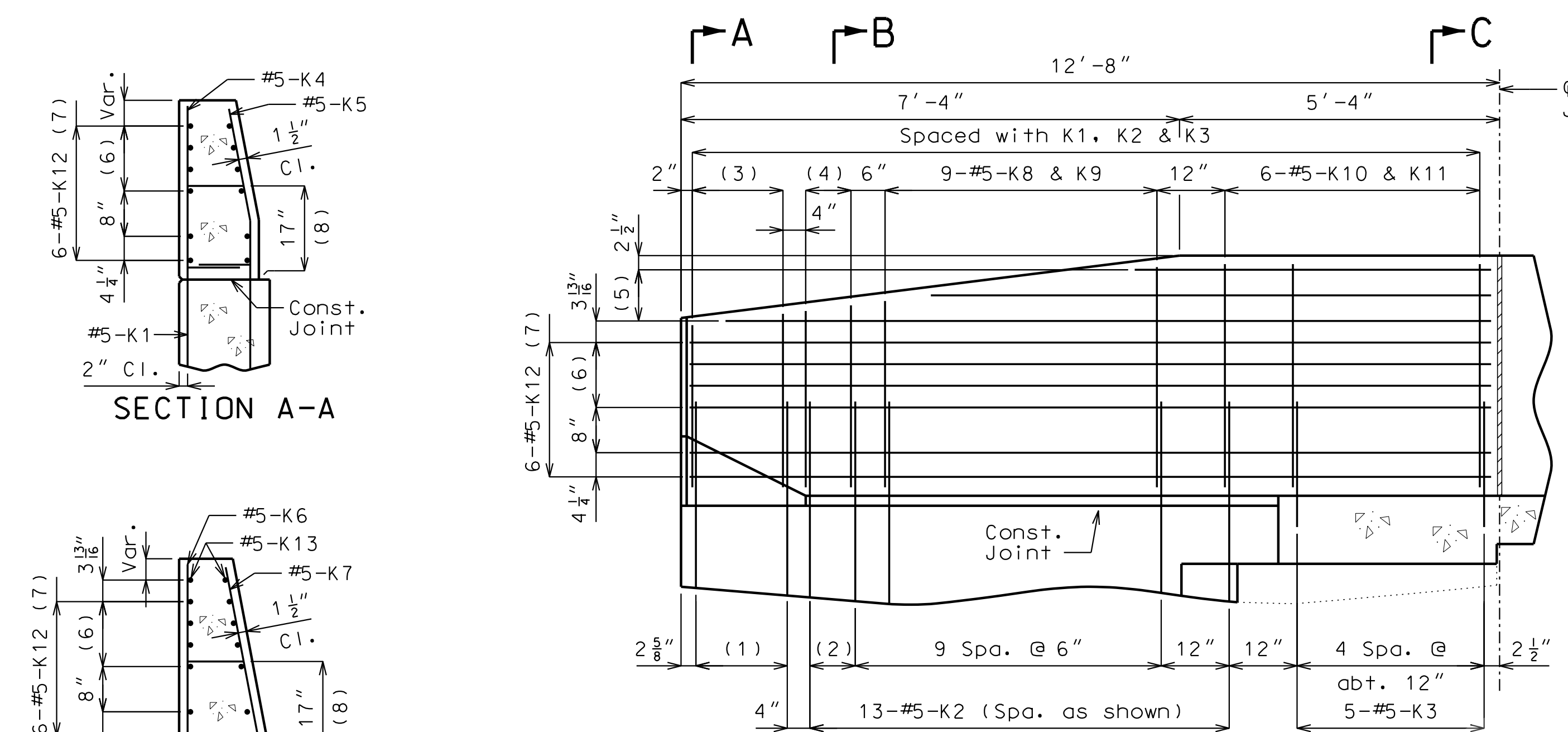
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

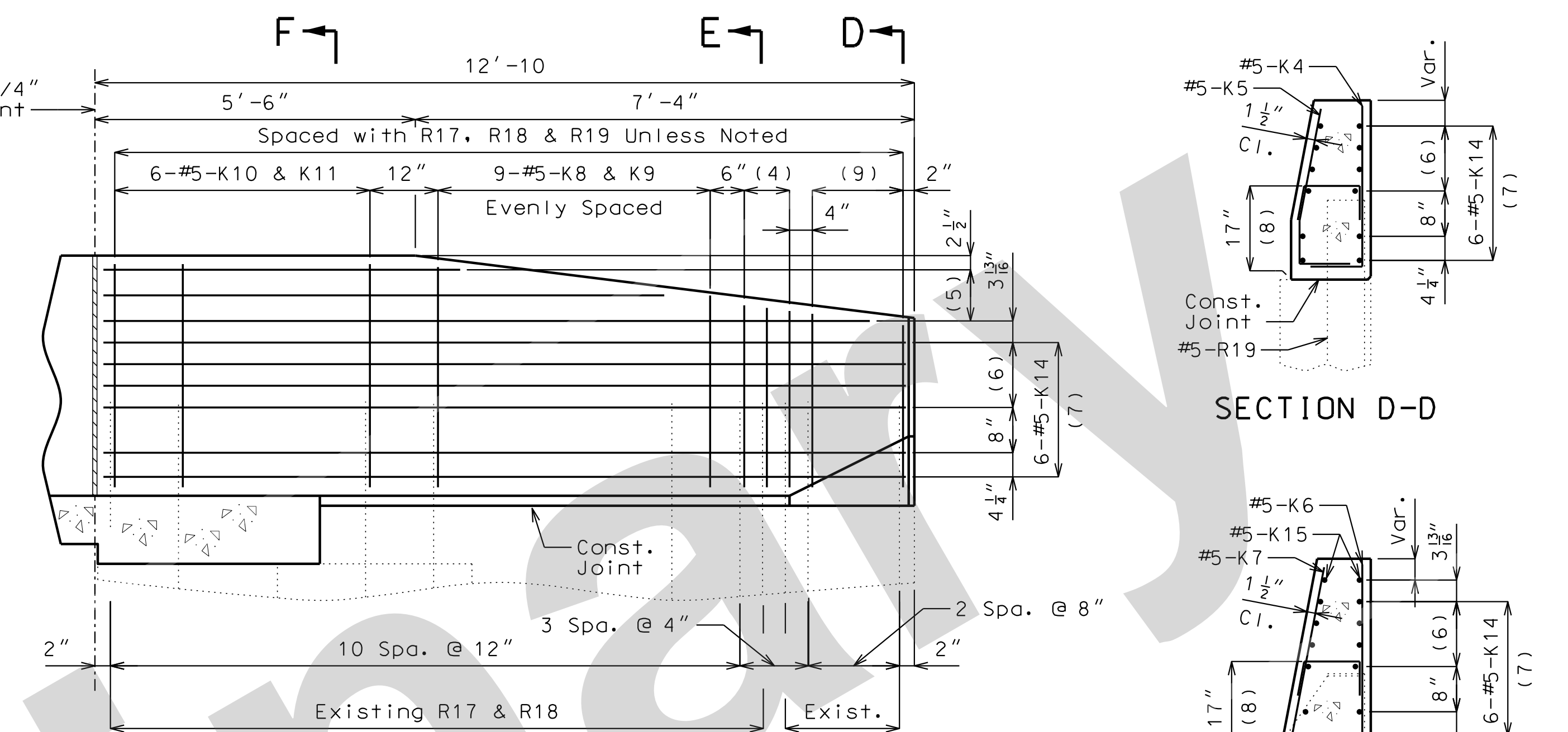
1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

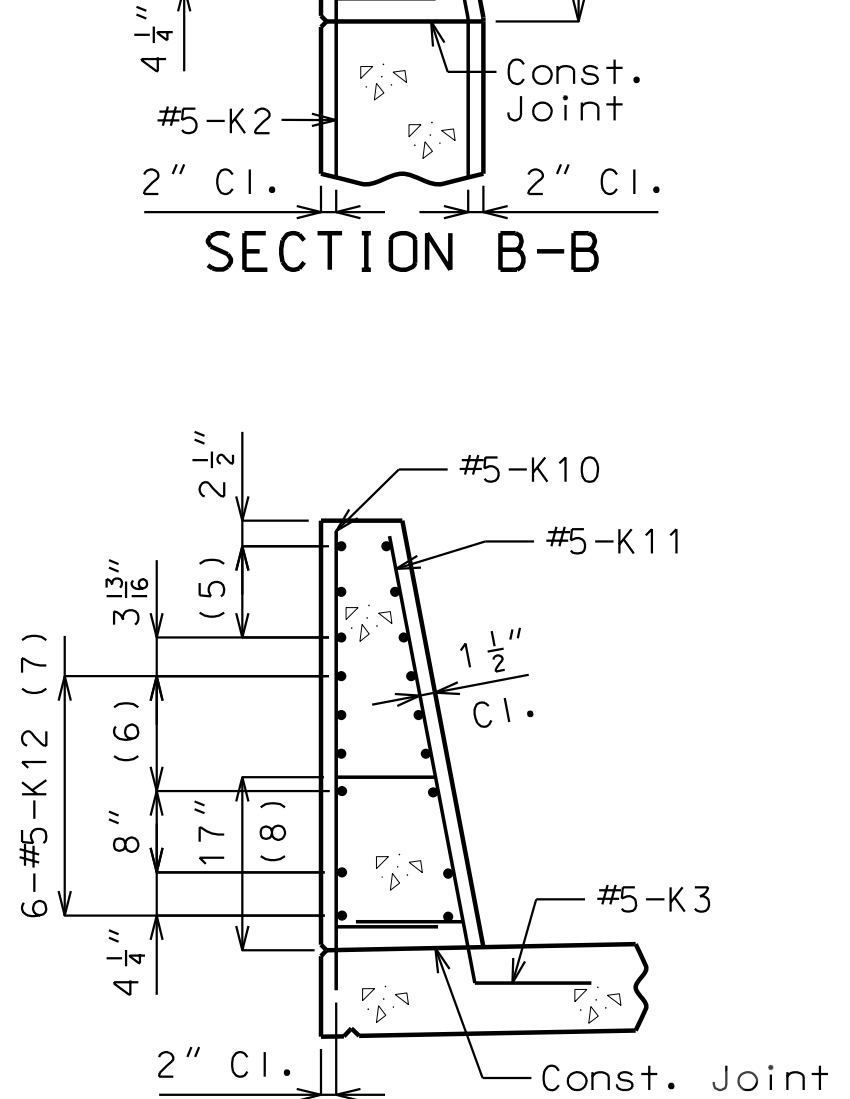
REV.



PART ELEVATION AT END BENT NO. 6



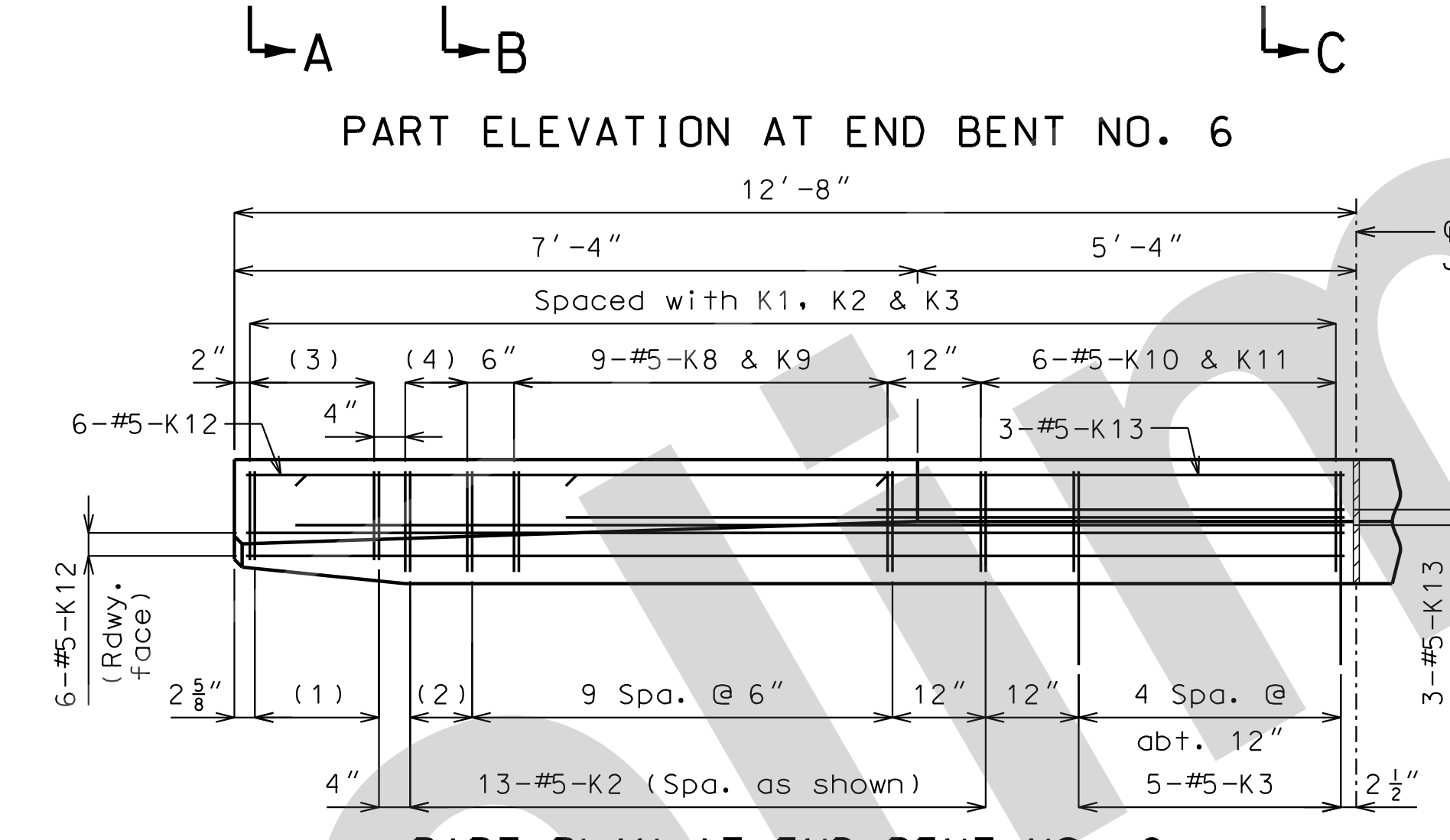
PART ELEVATION AT END BENT NO. 1



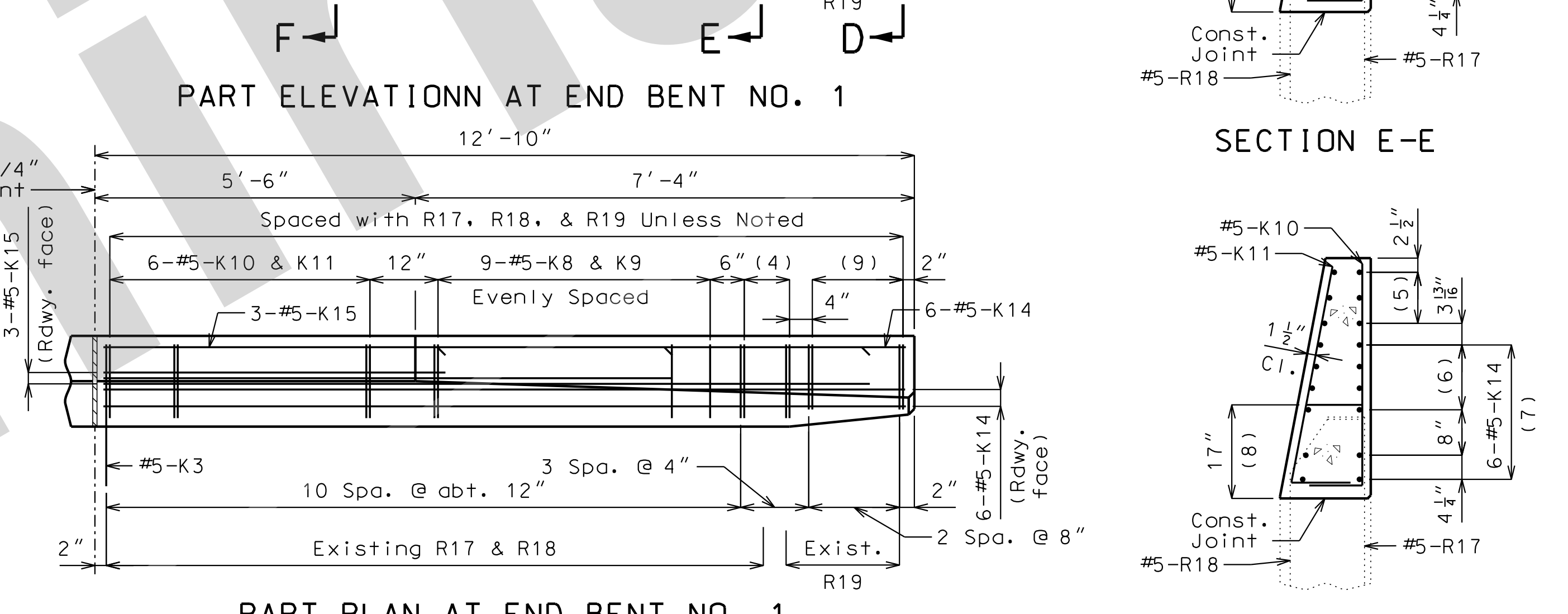
SECTION A-A

SECTION B-B

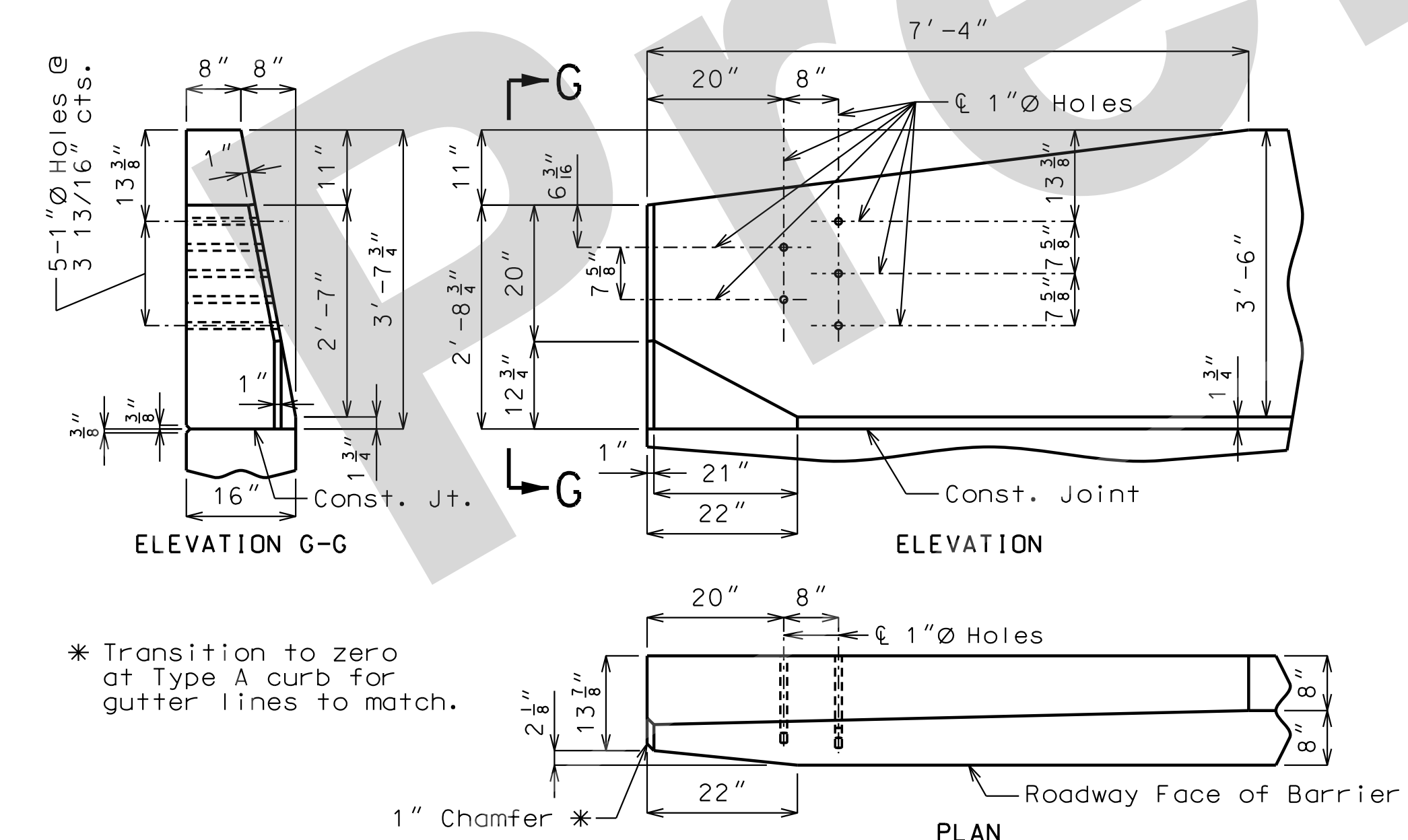
SECTION C-C



PART PLAN AT END BENT NO. 6

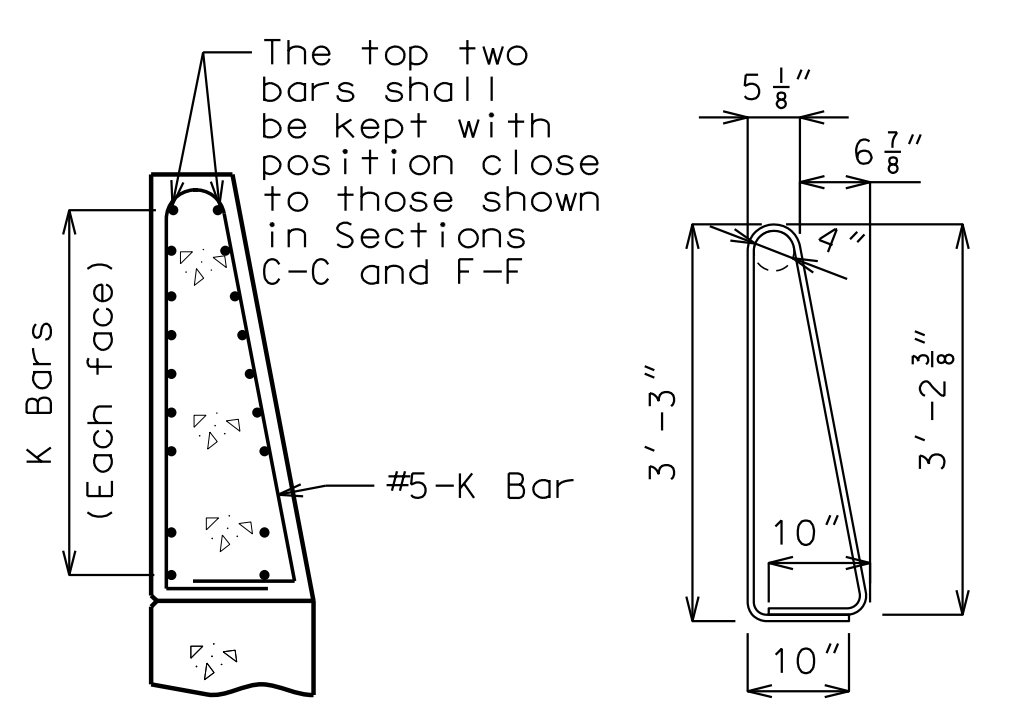


PART PLAN AT END BENT NO. 1



DETAILS OF GUARD RAIL ATTACHMENT

- (1) 5-#5-K1 @ 4" cts.
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face
- (6) 3 spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) To top of bar
- (9) 5-#5-K4 & K5 evenly spaced



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

General Notes:

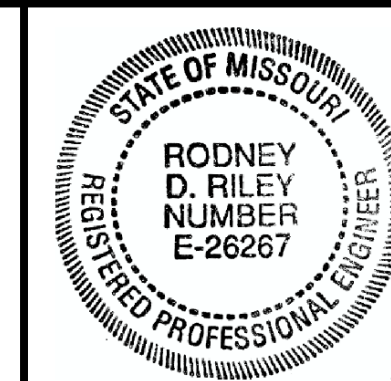
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

TYPE D BARRIER AT END BENTS

(Right Barrier shown)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A06073

DESCRIPTION

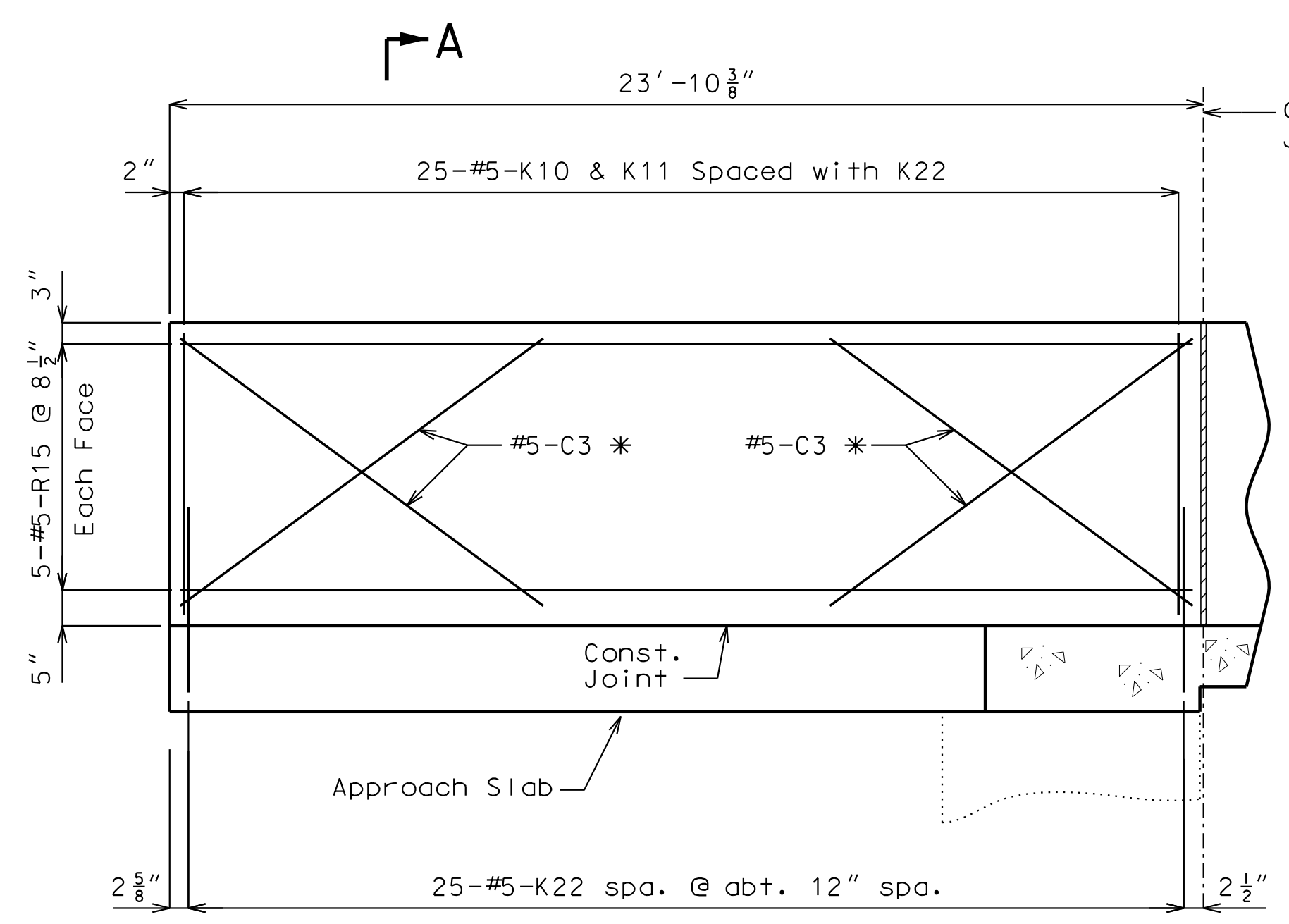
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

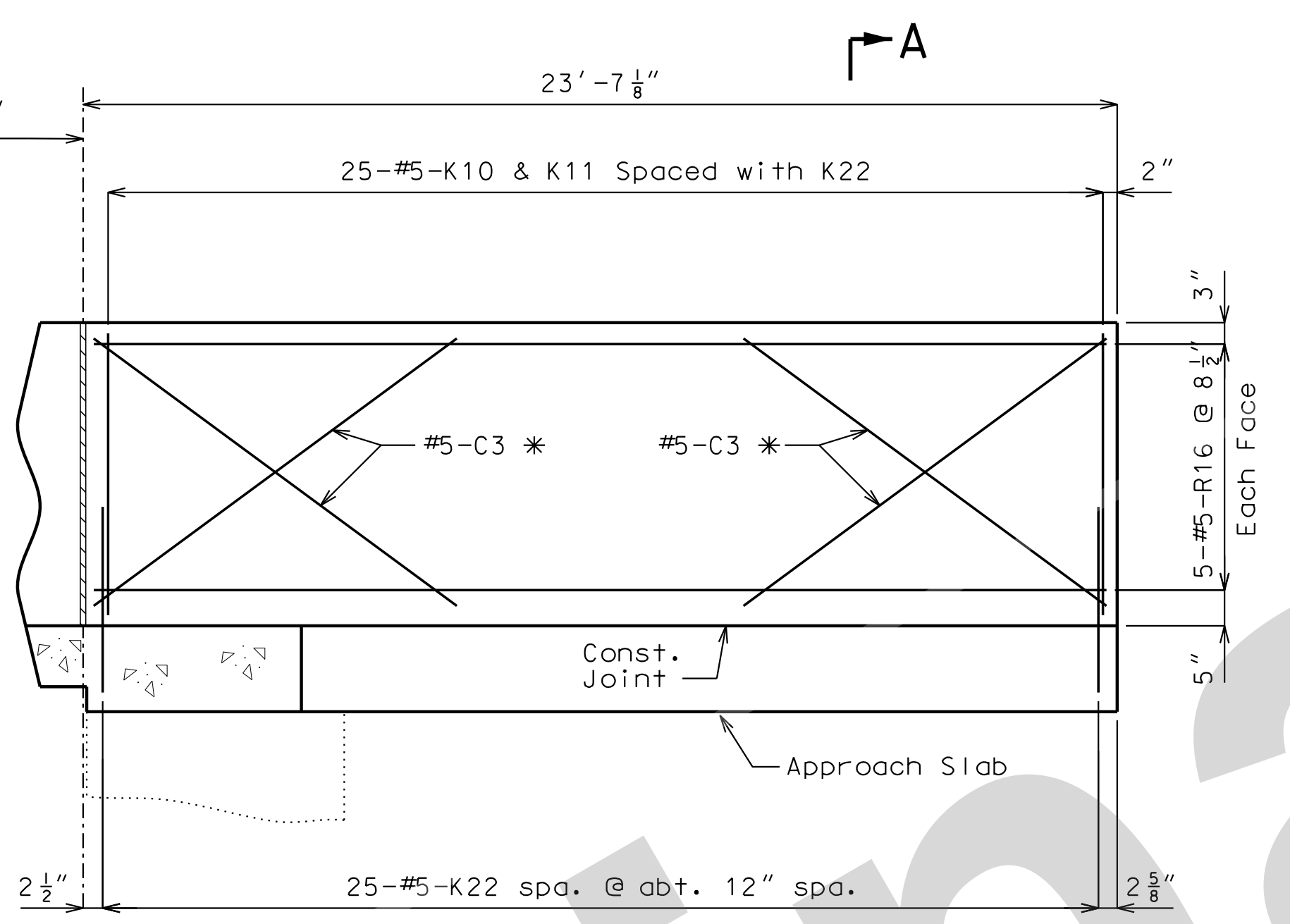
105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

REV.



ELEVATION AT END BENT NO. 1



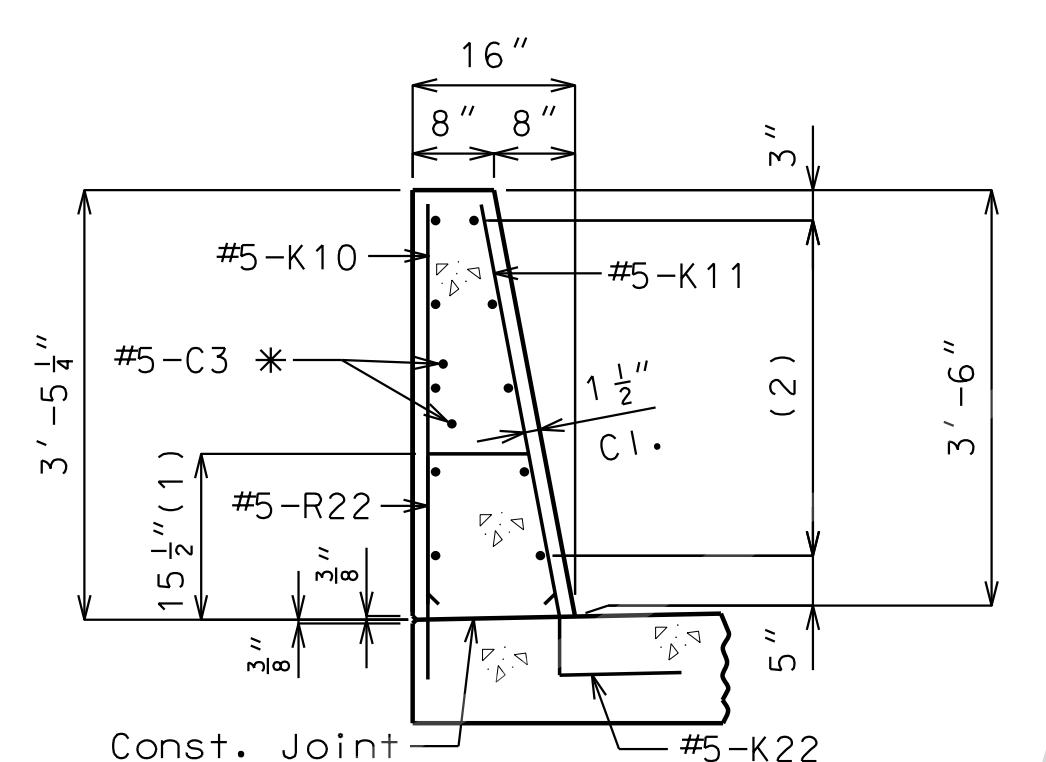
ELEVATION AT END BENT NO. 6

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

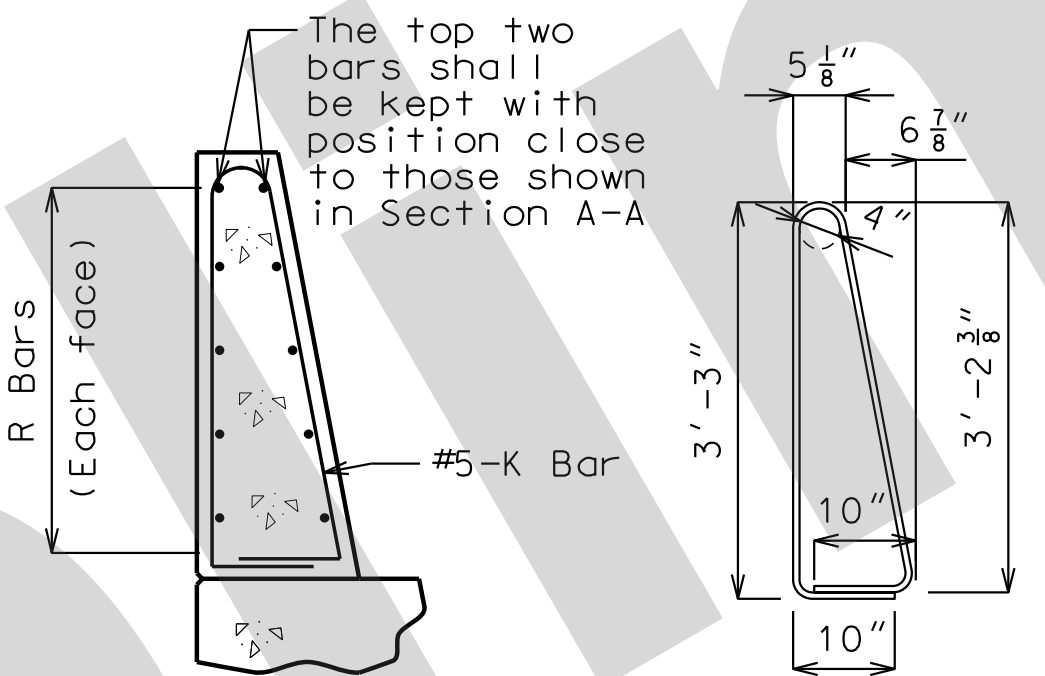
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.
The cross-sectional area above the slab is 3.46 square feet.
(1) To top of bar
(2) 5-#5-24 or 5-#5-R25 @ 8 1/2" each face
* Slip-formed option only



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

TYPE D BARRIER AT APPROACH MEDIAN

Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.

Int. Bent No. 2 (S8)		Int. Bent No. 3 (S9)	
Span 1	Span 2	Span 2	Span 3
14'-0"	16'-0"	16'-0"	16'-0"
Int. Bent No. 4 (S8)		-	
Span 3	Span 4	-	-
16'-0"	14'-0"	-	-

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
H20-44 (1961)
HS20-44 (1983 and 2021)
15 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf

Design Unit Stresses:
Class B-1 Concrete (Barrier) f'c = 4,000 psi
Class B-2 Concrete (End Bents, Superstructure, except Barrier) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:
The top, sides and bottom of the top flanges of existing steel stringers shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

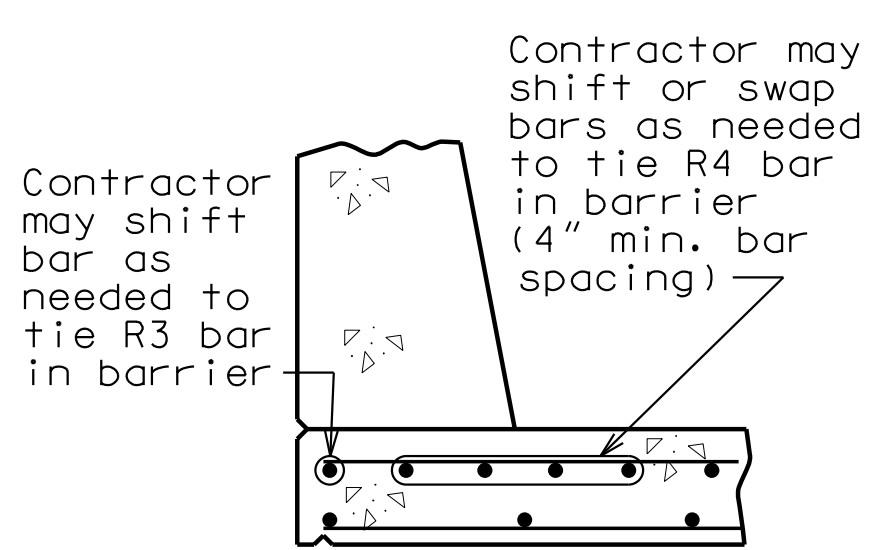
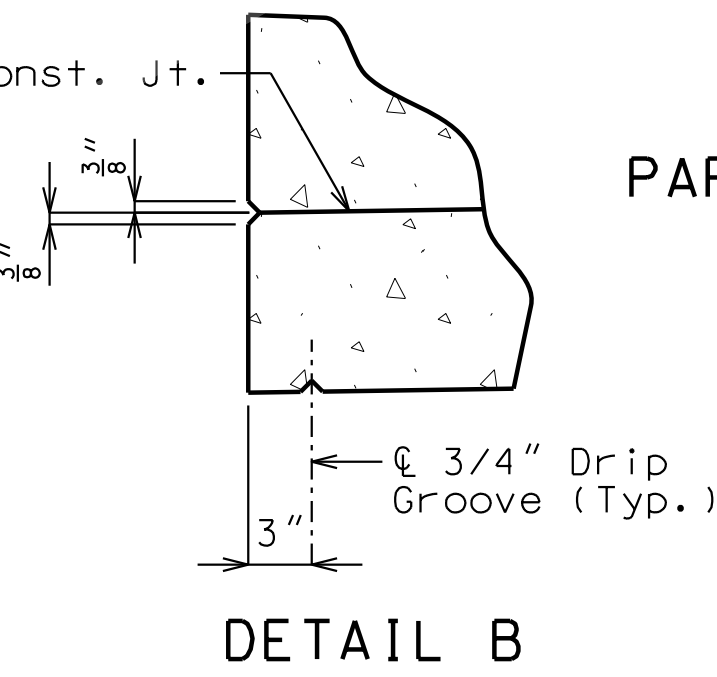
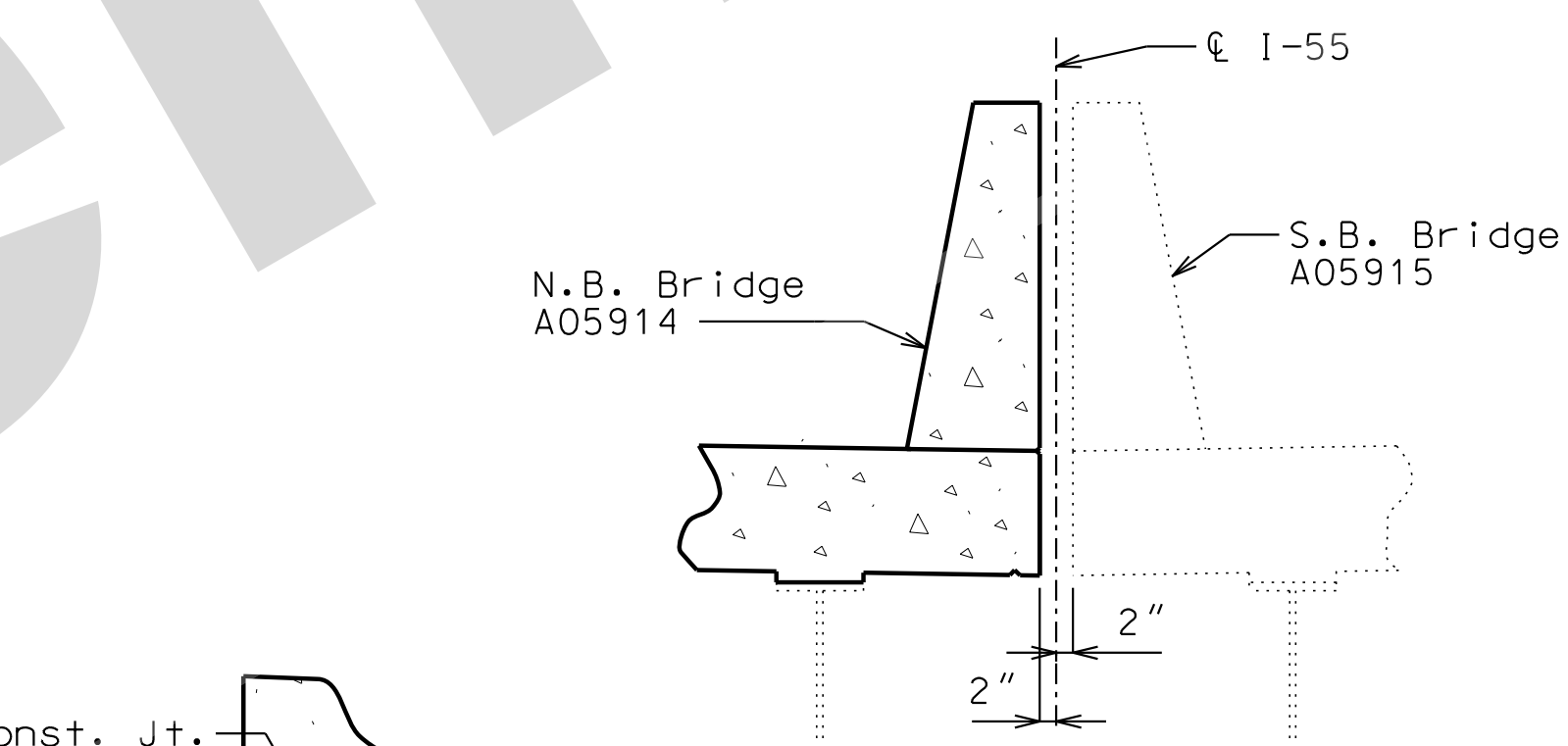
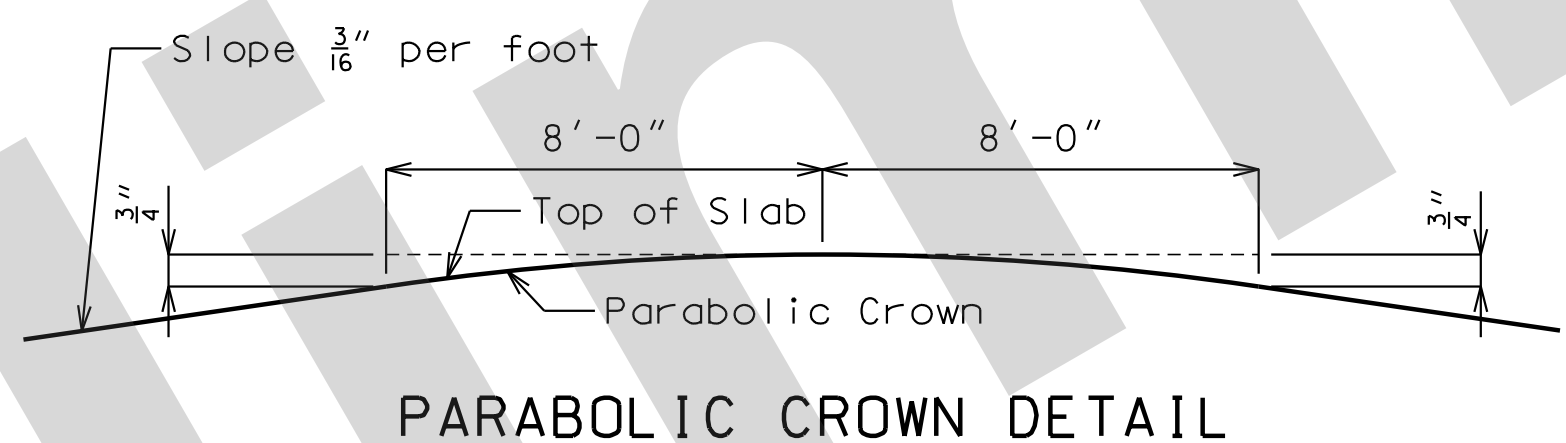
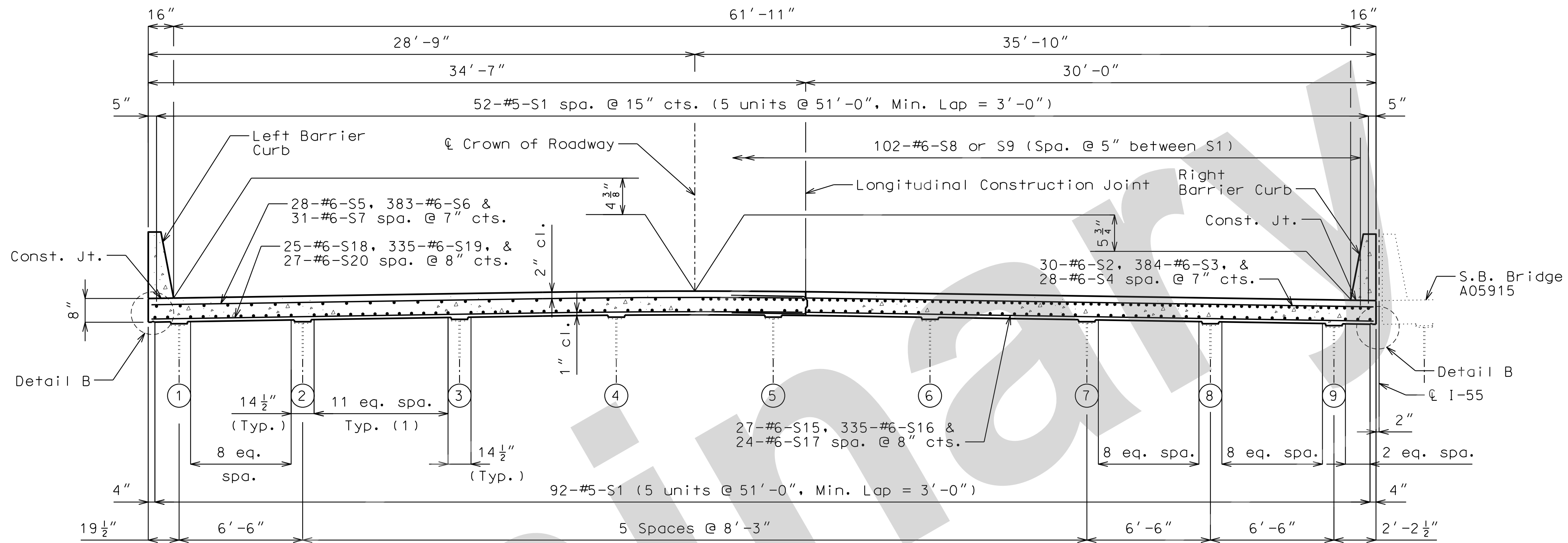
Longitudinal dimensions are based on original plans.

Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Traffic Handling:
Structure to be closed during construction. Traffic to be maintained on southbound bridge during construction. See roadway plans for traffic control.

Detailed June 2021
Checked June 2021



Item	Quantity	Total
Removal of Existing Bridge Deck	sq. foot	15,675
Bridge Approach Slab (Major)	sq. yard	287
Slab on Steel	sq. yard	1,741
Class B-2 Concrete	cu. yard	2.7
Type D Barrier	linear foot	540
Substructure Repair (Unformed)	sq. foot	400
Reinforcing Steel (Epoxy Coated)	pound	140
Protective Coating Concrete Bents and Piers (Epoxy)	lump sum	1
Slab Drain	each	20
Non-Destructive Testing	linear foot	363

Item	Quantity	Total
Class B-2 Concrete	cu. yard	405
Reinforcing Steel (Epoxy Coated)	pound	136,800

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

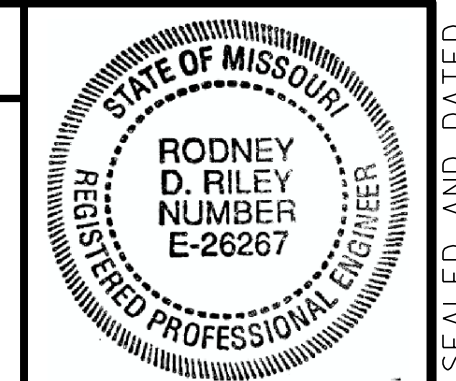
Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

**REPAIRS TO BRIDGE:
ROUTE I-55 NB OVER GREEN PARK ROAD**

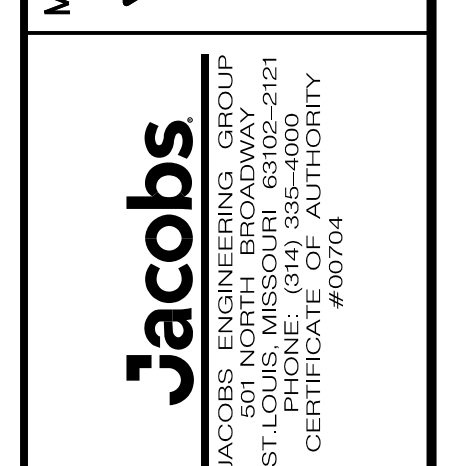
ROUTE I-55 FROM I-270 TO I-44
ABOUT 1.9 MILES NORTH OF I-270
STATION 2+48.43± (MATCH EXISTING)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
DATE PREPARED 10-AUG-2021
ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 1
COUNTY ST. LOUIS
JOB NO. J613187
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A05914

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Pouring and Finishing Slab:

The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

The contractor shall pour and satisfactorily finish the slab pours at a minimum rate of 25 cubic yards per hour. Slab shall be poured upgrade from end to end.

The longitudinal construction joint may be omitted with the approval of the engineer. When the longitudinal joint is omitted, the minimum rate of pour shall be 53 cubic yards per hour without retarder and 32 cubic yards with retarder.

Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Haunching:

(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

(2) Embedded #4 bar shall be cleaned, straightened, and reused.

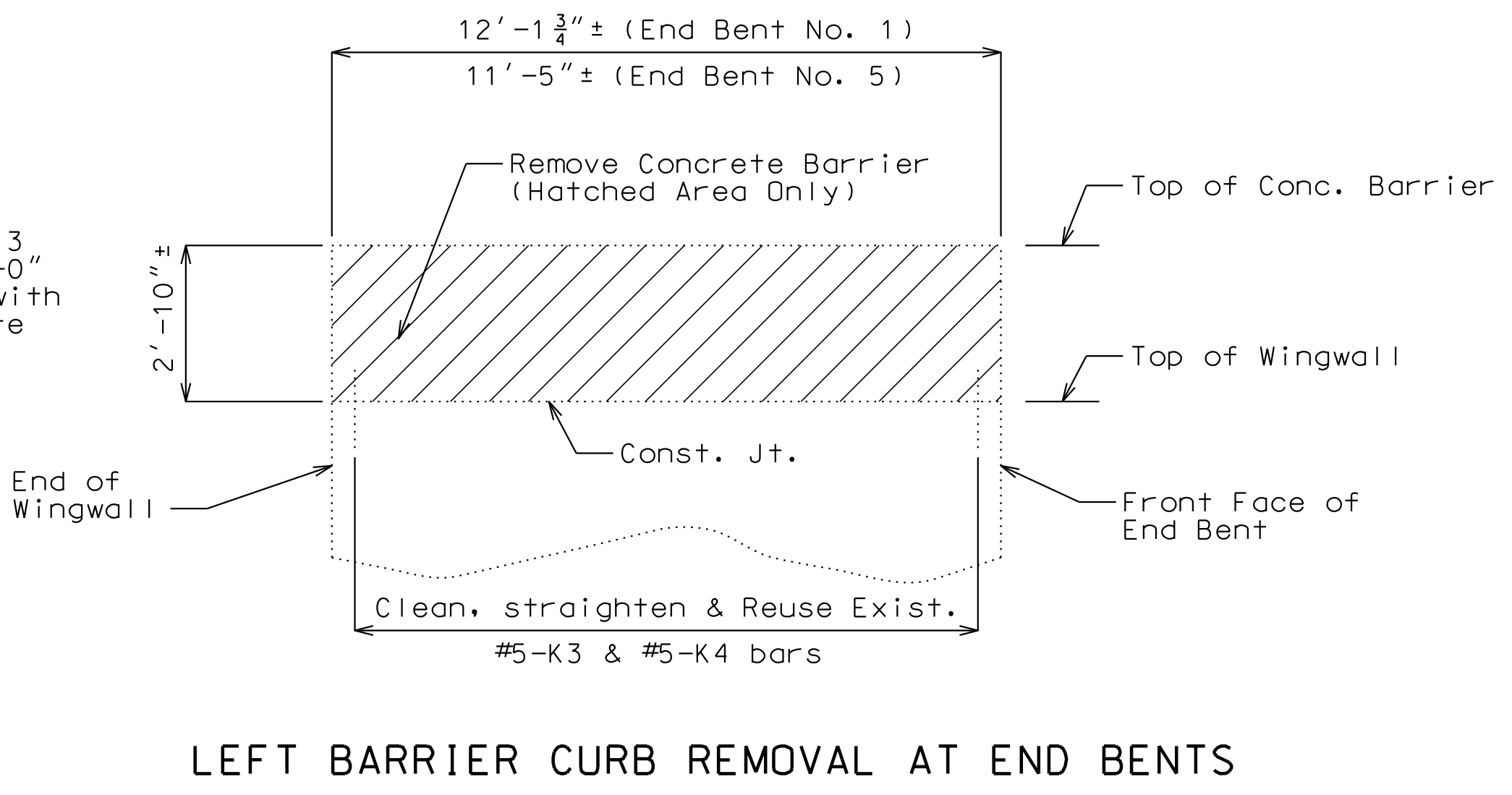
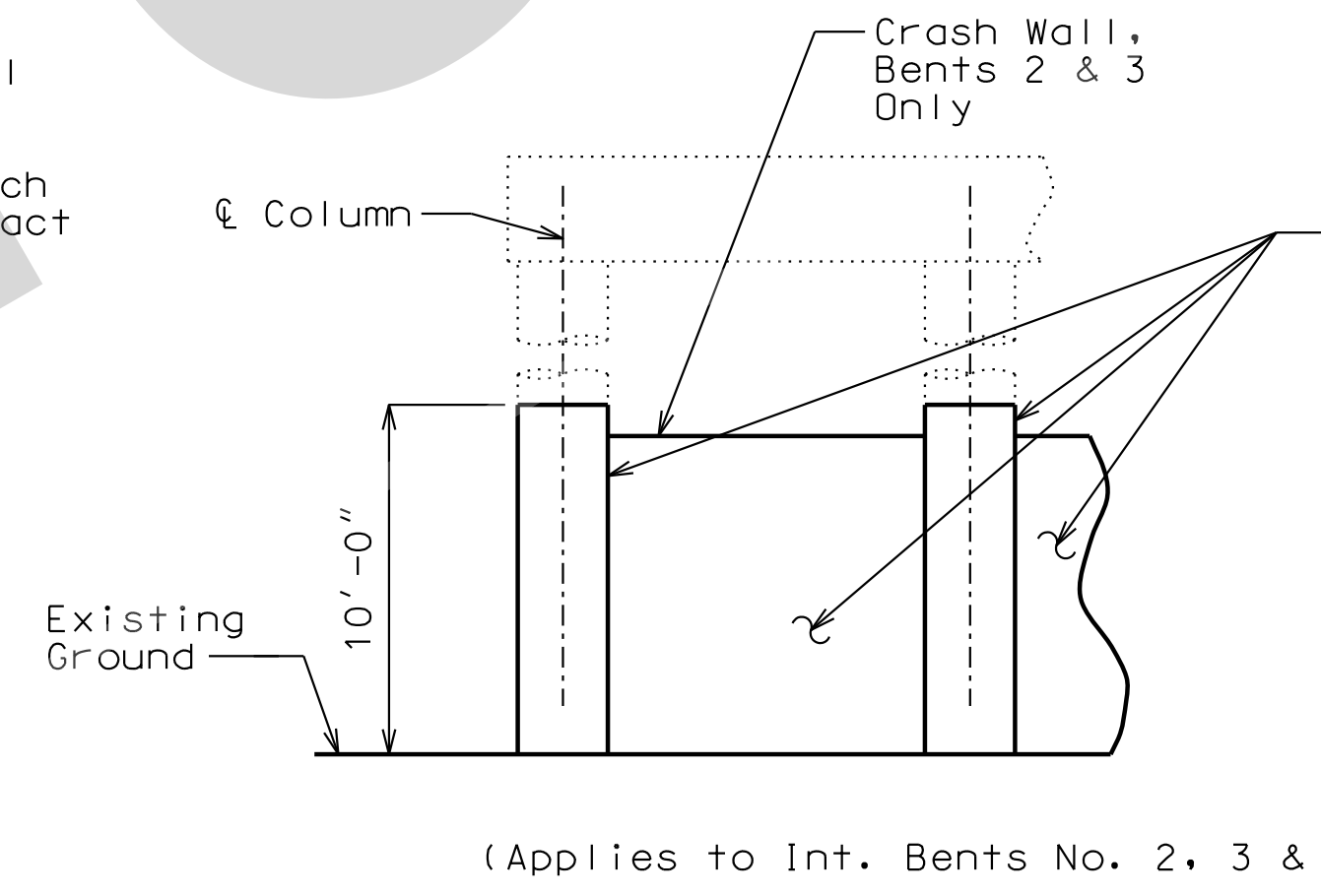
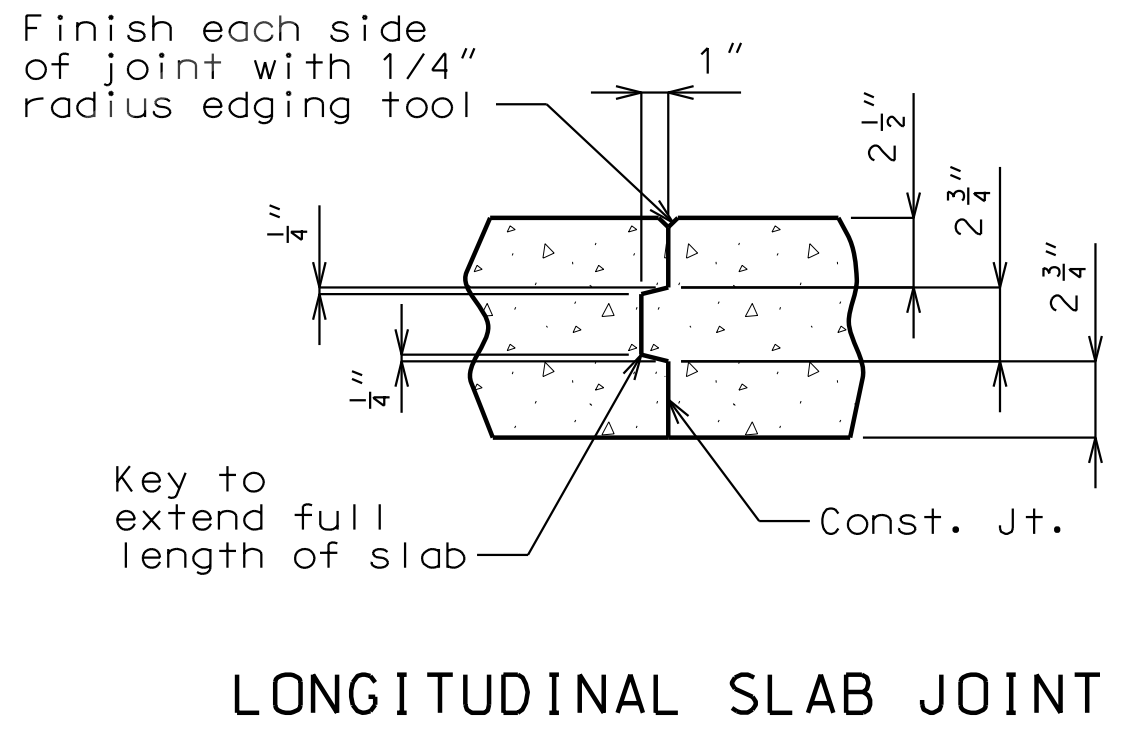
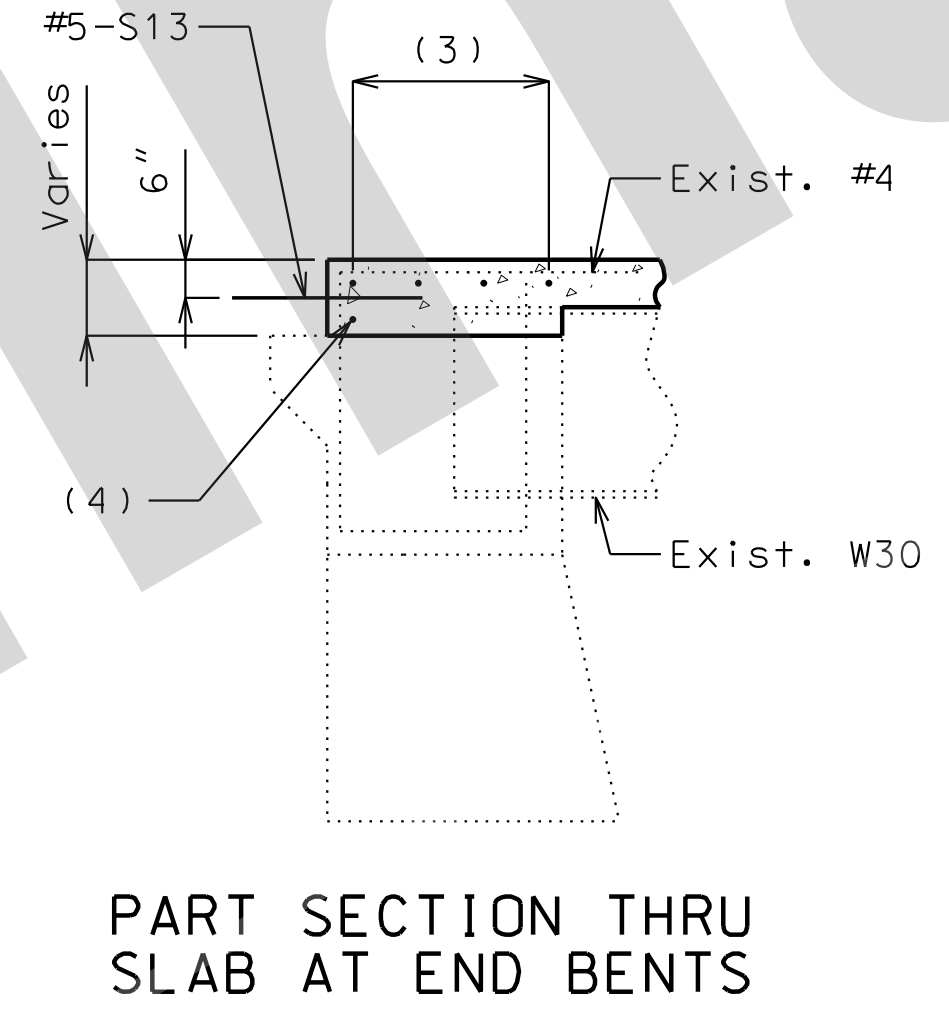
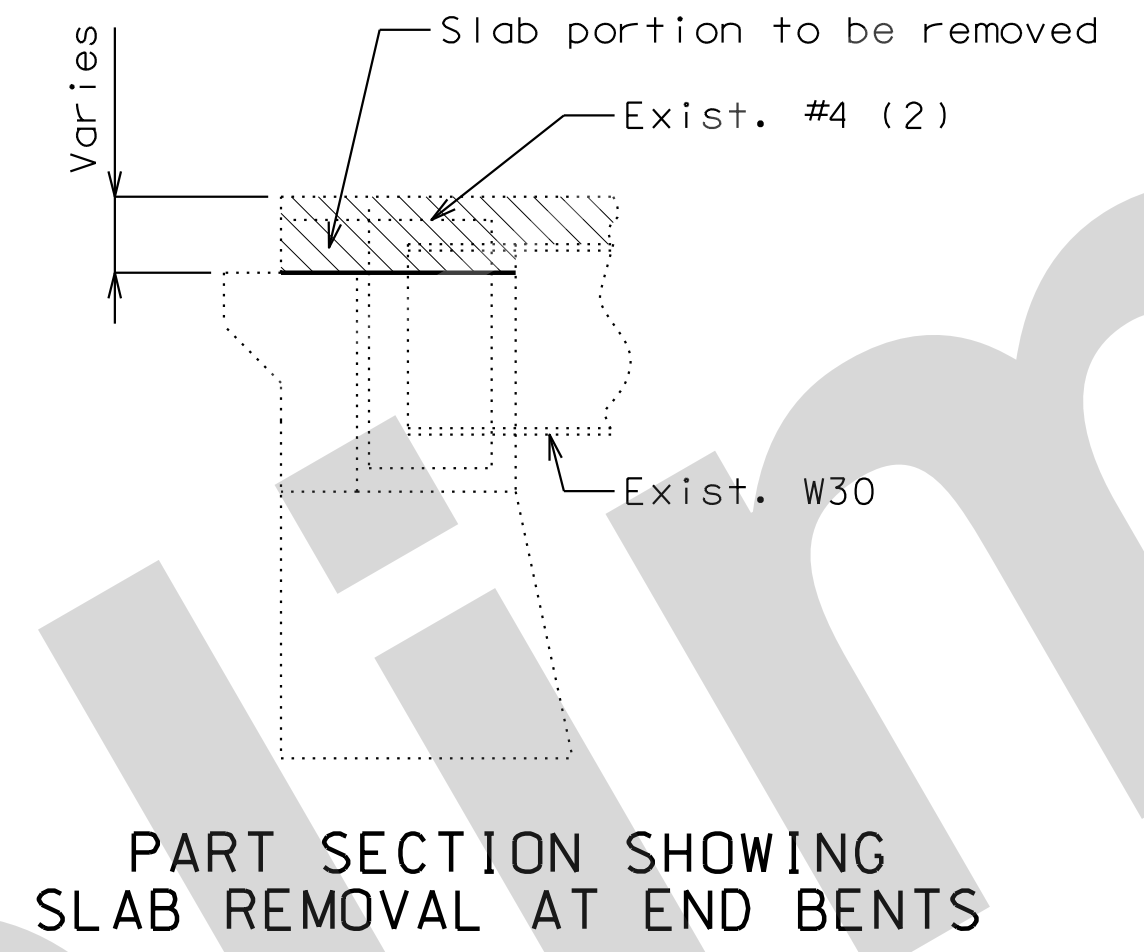
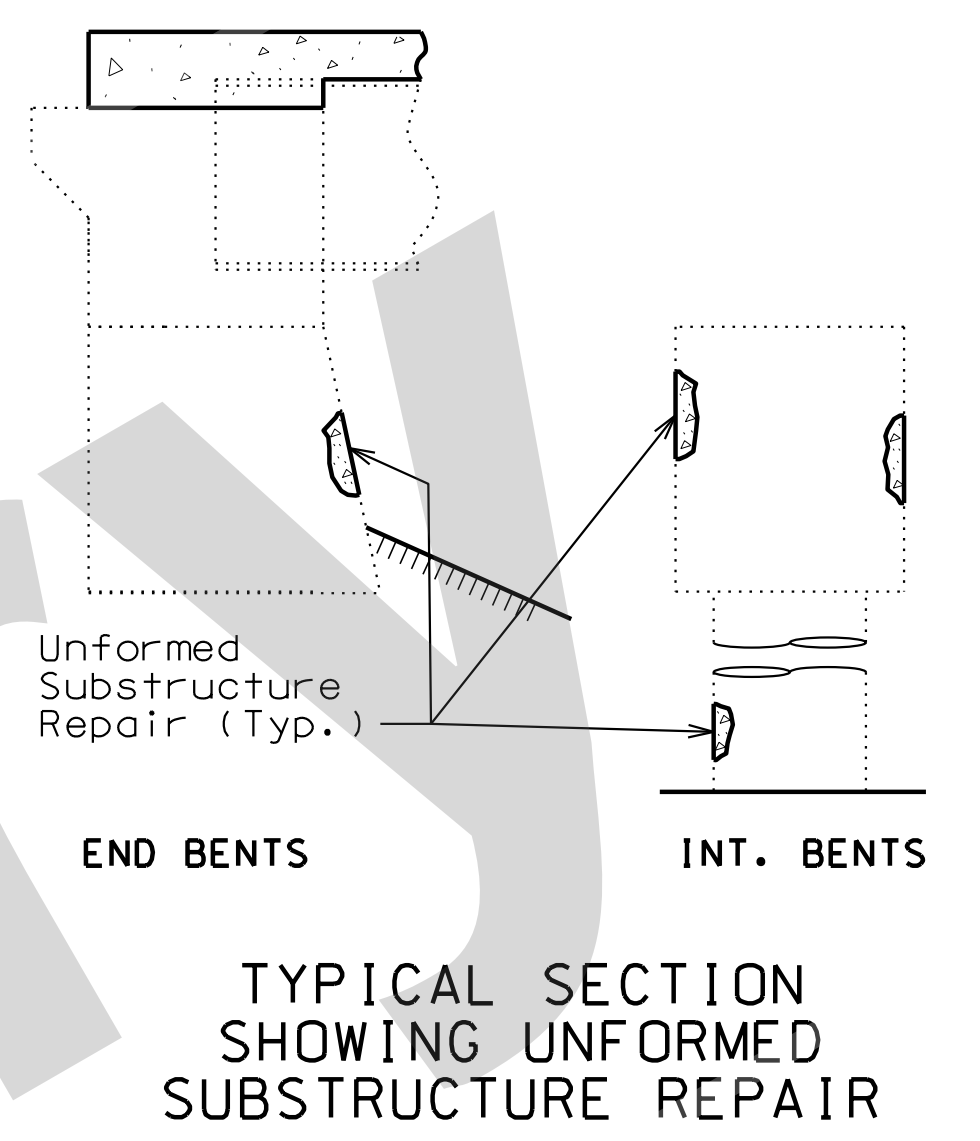
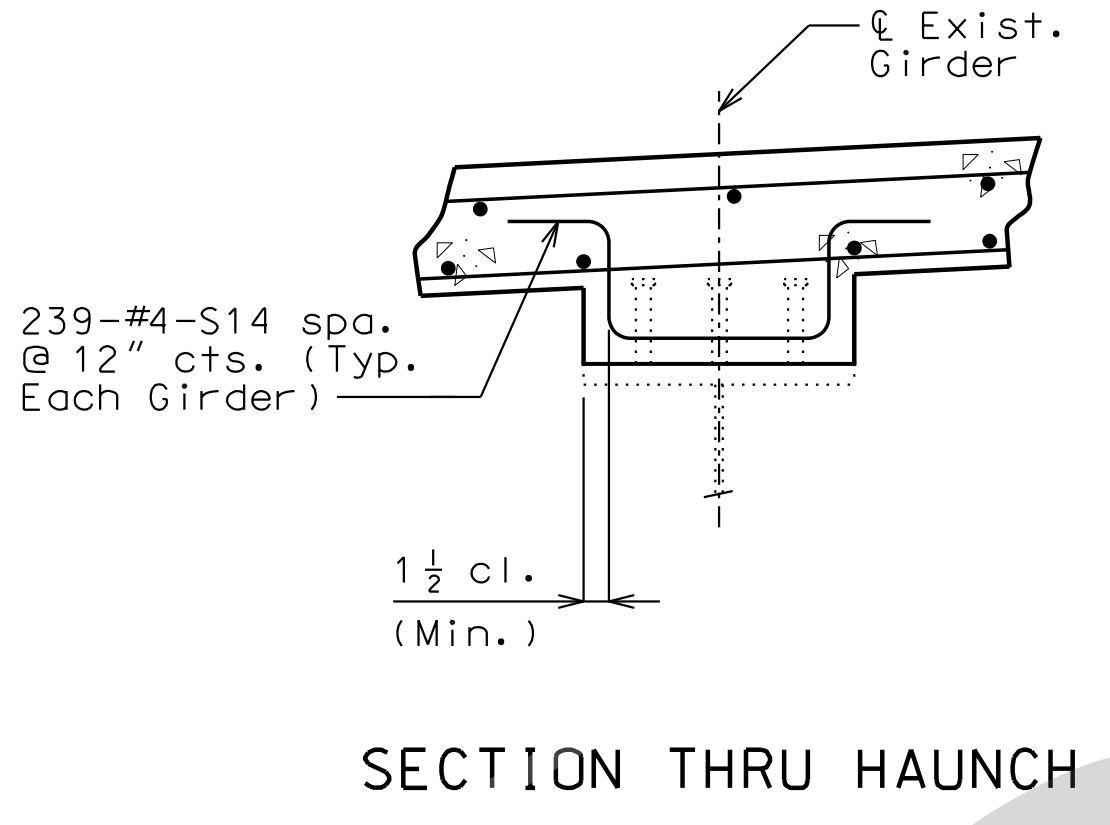
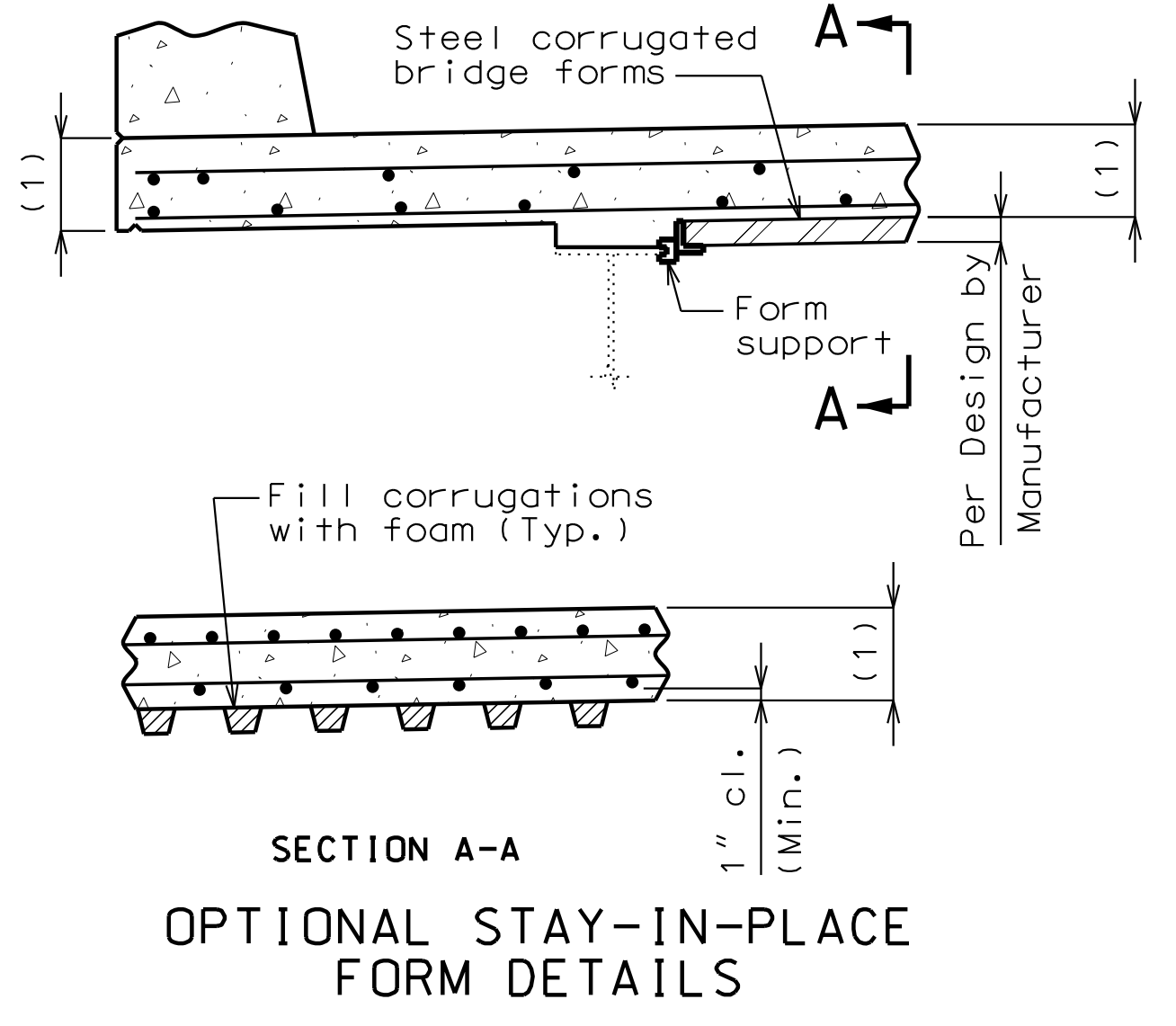
(3) 4-#6-S10 lapped with 4-#6-S11 at End Bent 1. 4-#6-S10 lapped with 4-#6-S11 at End Bent 5. Placed parallel to end of slab.

(4) 1-#6-S10 lapped with 1-#6-S11 at End Bent 1. 1-#6-S10 lapped with 1-#6-S11 at End Bent 5. Placed parallel to end of slab.

Miscellaneous:

The cost to remove the barrier curb will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck, unless noted otherwise.

The cost to remove the right barrier curb, on the approach slab, will be considered completely covered by the contract unit price for Removal of Approach Slabs (Roadway Item).



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 10-AUG-2021

ROUTE: I-55	STATE: MO
DISTRICT: BR	SHEET NO.: 2
COUNTY: ST. LOUIS	
JOB NO.: J613187	
CONTRACT ID.:	
PROJECT NO.:	
BRIDGE NO.: A05914	

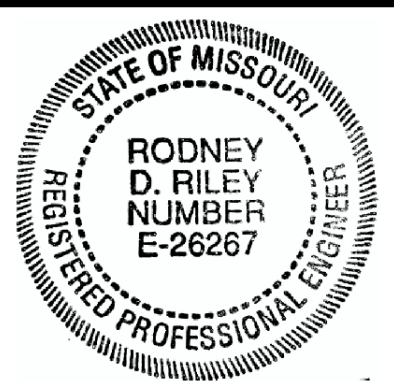
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODDOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



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DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05914

DESCRIPTION

DATE

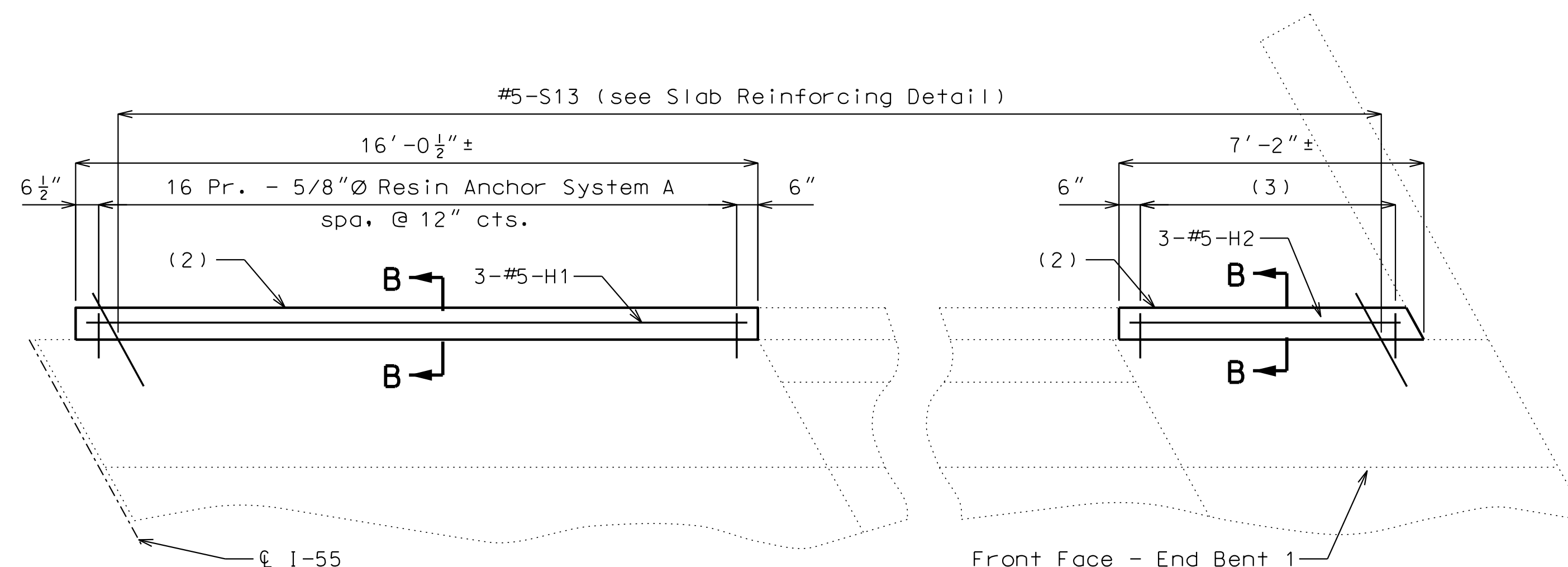
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

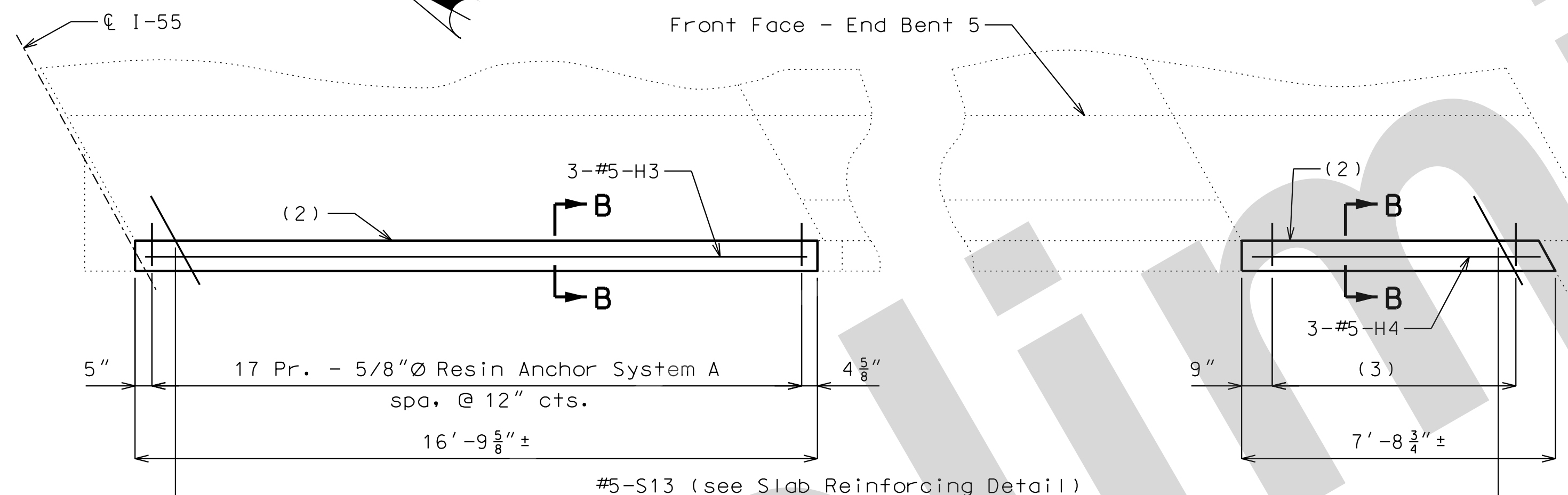
1-888-ASK-MODOT (1-888-275-6636)

REVISIONS

REV.

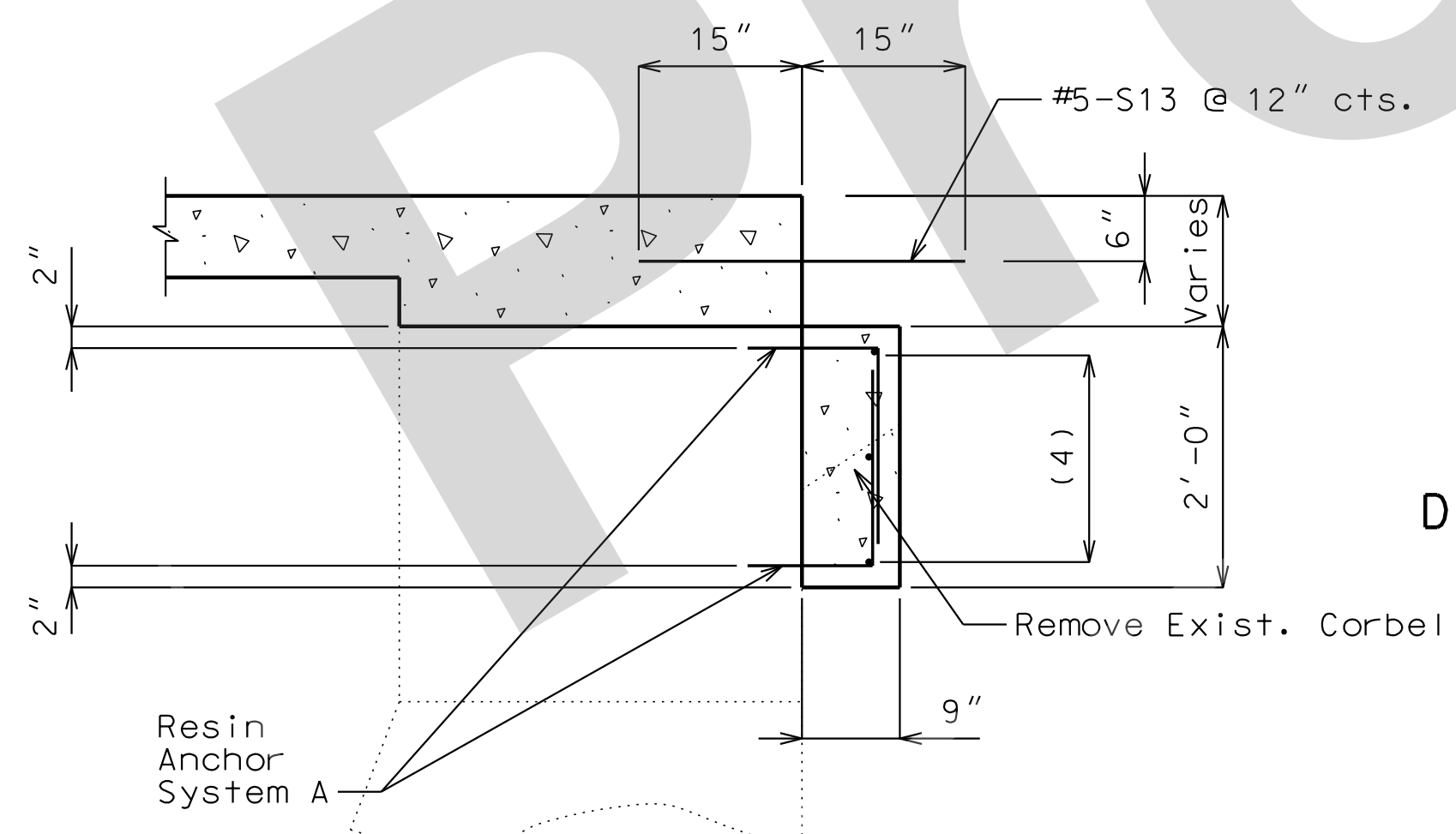


PART PLAN - END BENT 1
(New slab concrete not shown for clarity.)



PART PLAN - END BENT 5
(New slab concrete not shown for clarity.)

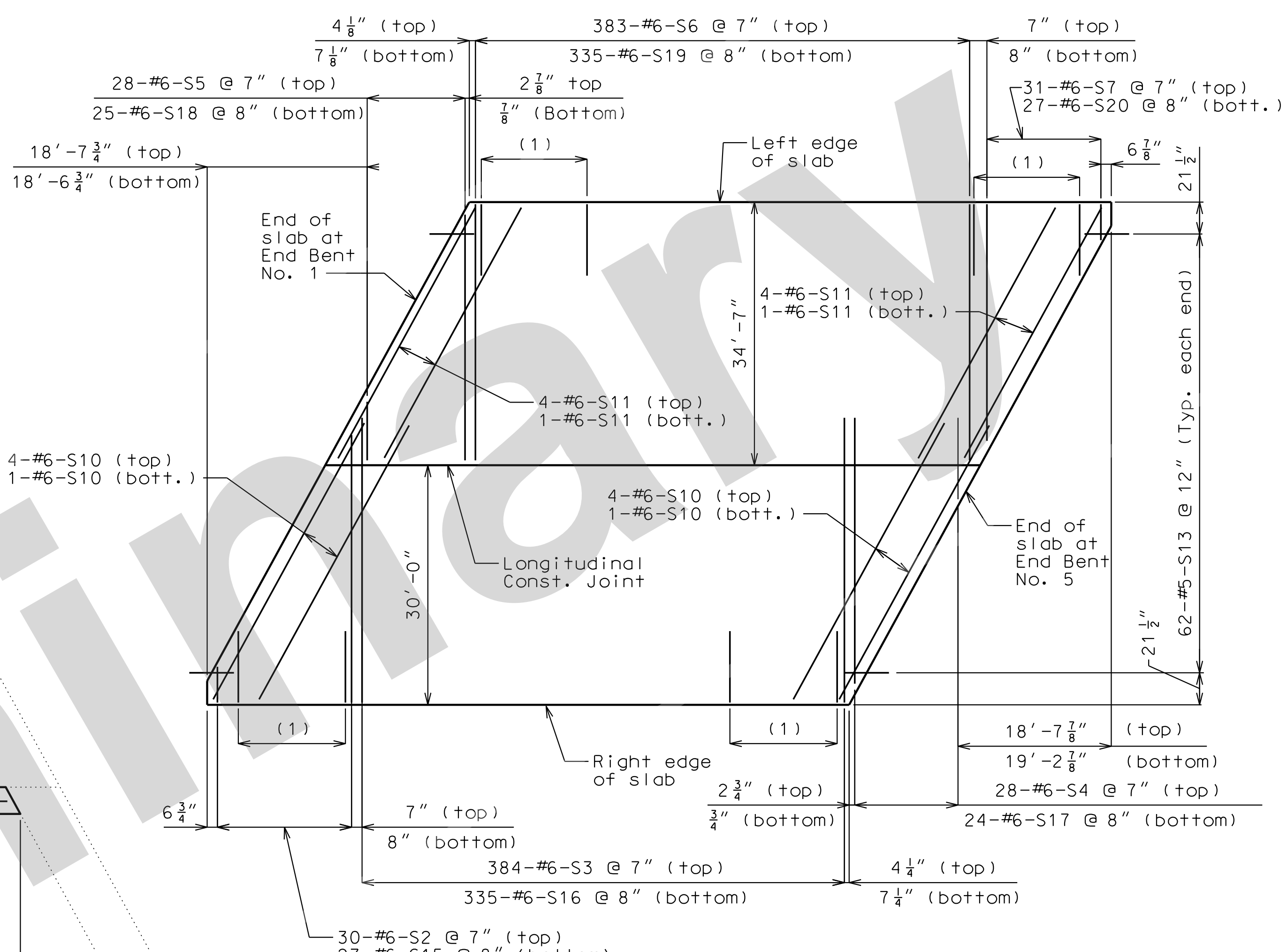
- (1) 12-#6-S12 x 4'-0" @ 14" spacing Bundle with top S1 bars.
- (2) Remove existing 9" corbel. Replace as shown, see Section B-B.
- (3) 7 Pr. - 5/8"Ø Resin Anchor System A spa. @ 12" cts.



SECTION B-B

DETAILS OF RESIN ANCHOR SYSTEM

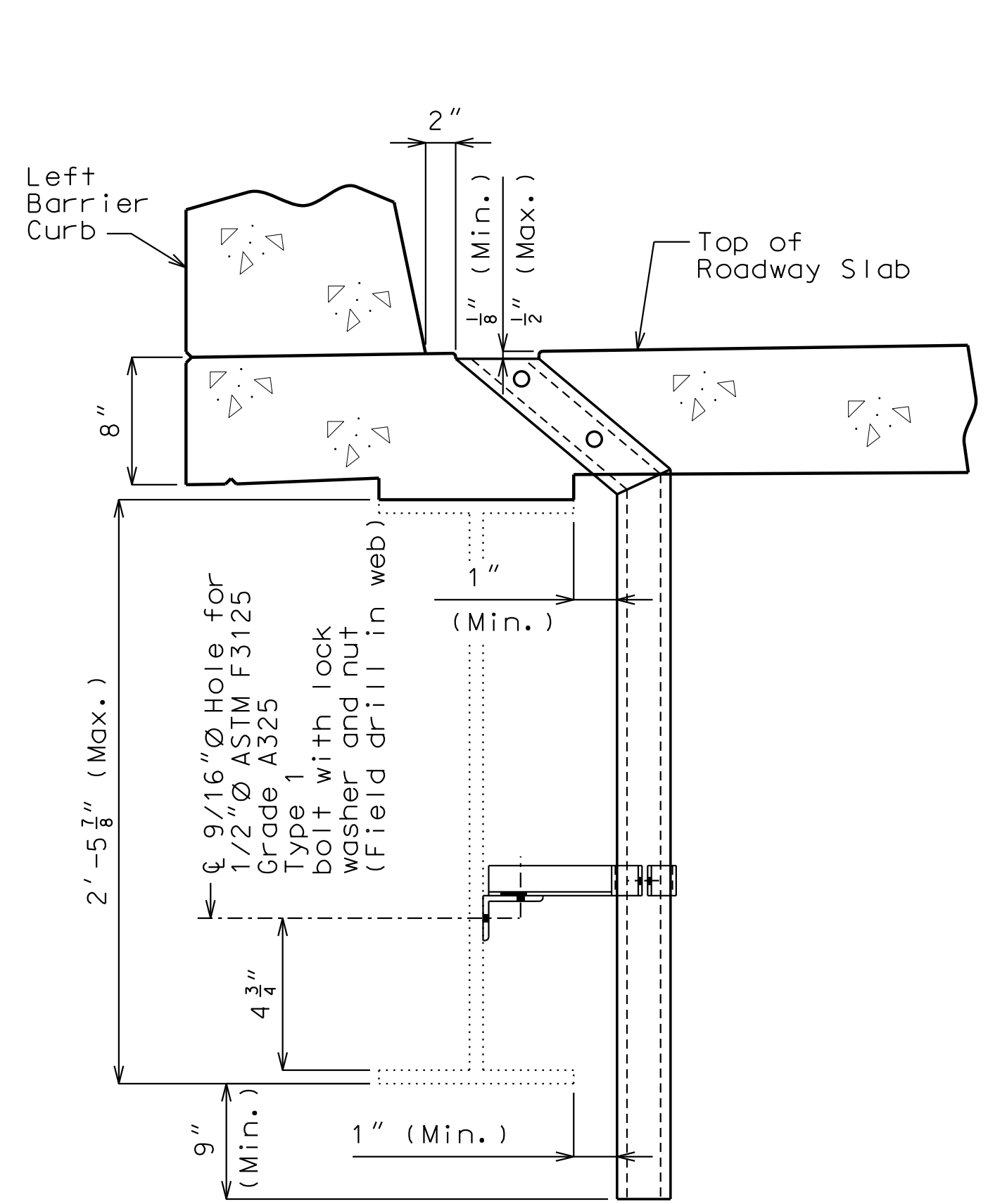
- (4) 3-#5-H1, H2, H3 or H4, equally spaced
- (5) Manufacturer's recommended embedment length (5" min.)



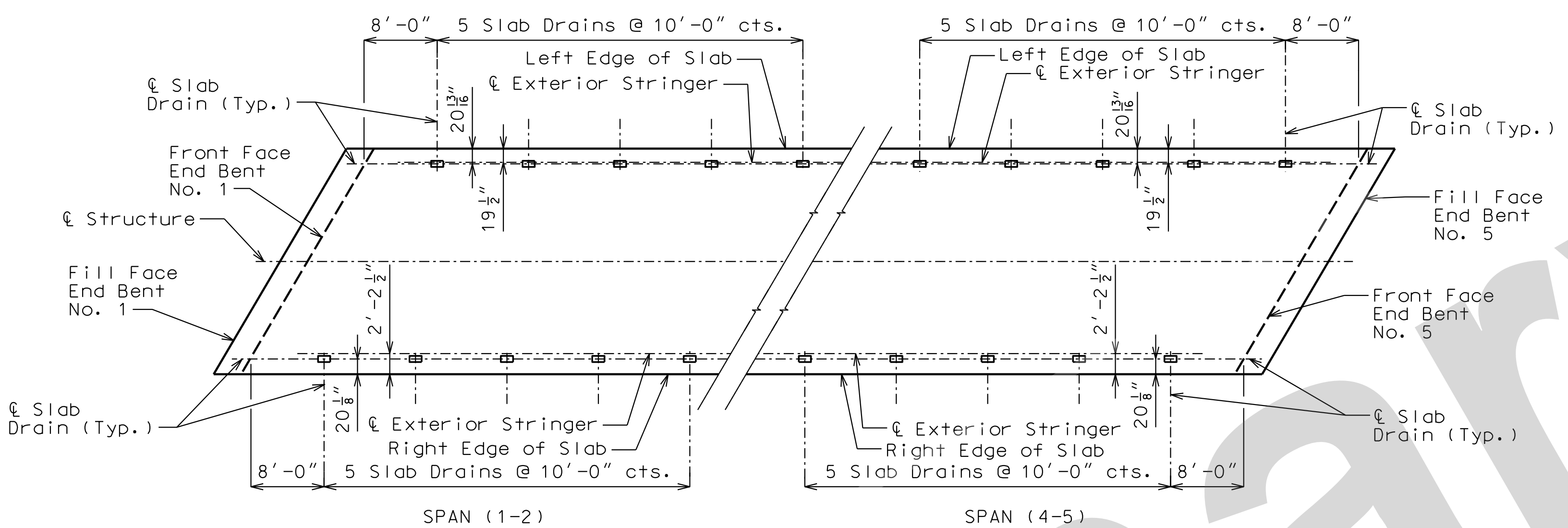
SLAB REINFORCING DETAIL
Schematic, not to scale
Longitudinal Reinforcement not shown, see Sheet No. 1.

General Notes

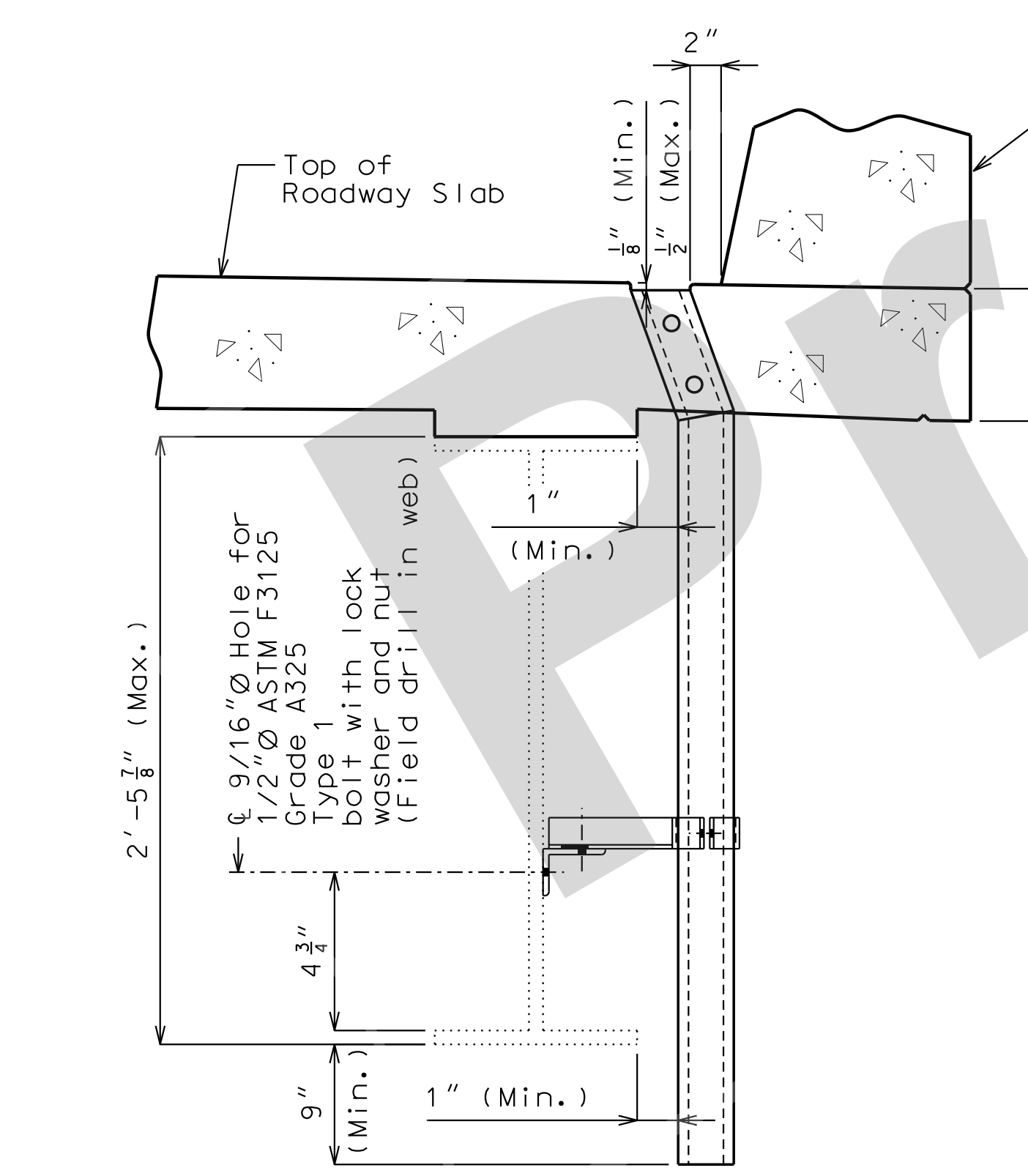
- Concrete in the approach slab corbel shall be Class B-2.
- The costs for the concrete to repair the approach slab corbel, will be considered completely covered by the contract unit price for Class B-2 Concrete.
- The cost for the reinforcement to repair the approach slab corbel will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).
- The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.
- The minimum embedment depth in concrete with a f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".
- An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.
- Cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.



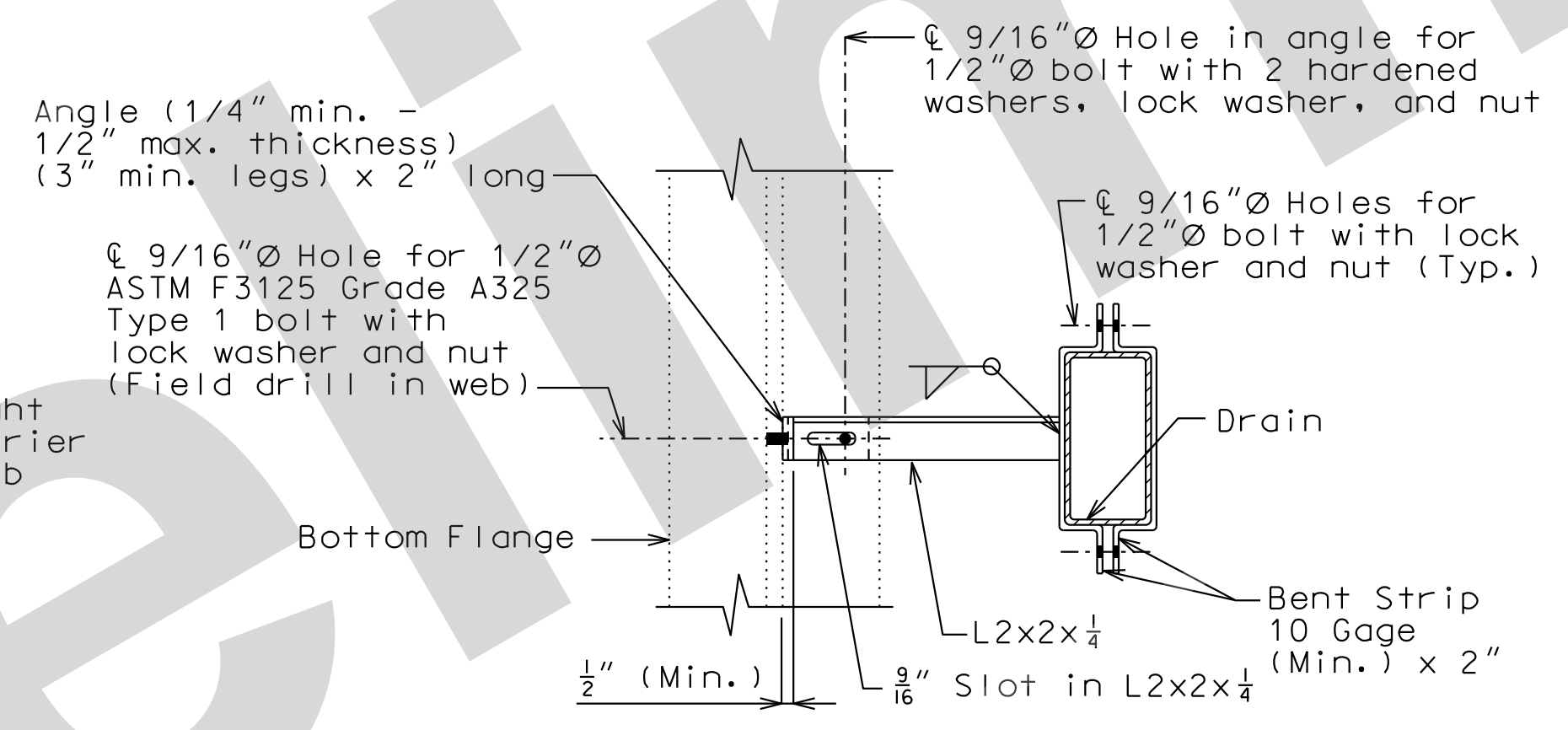
PART SECTION NEAR DRAIN LEFT BARRIER CURB



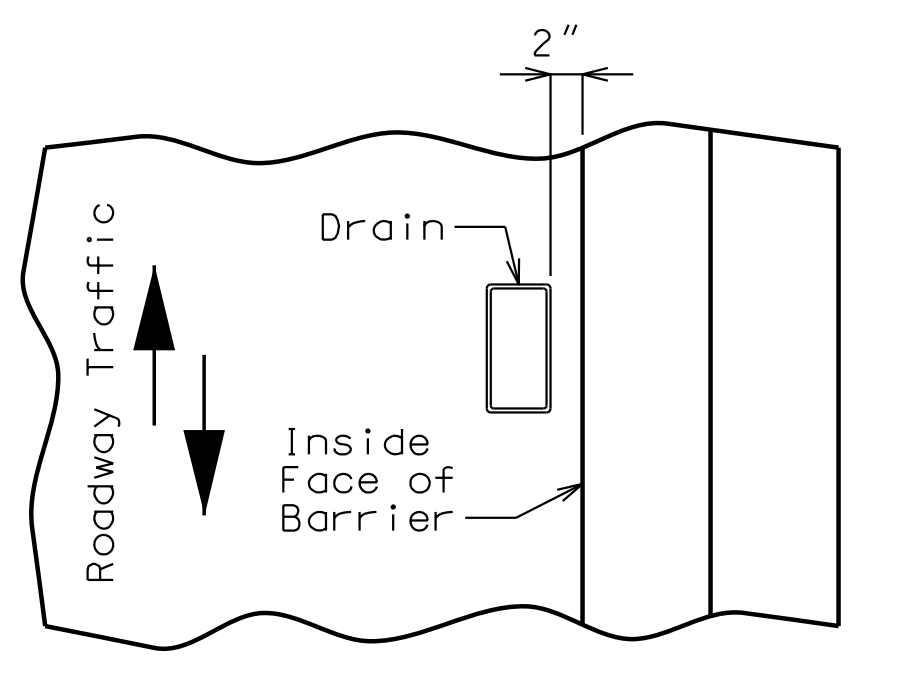
PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



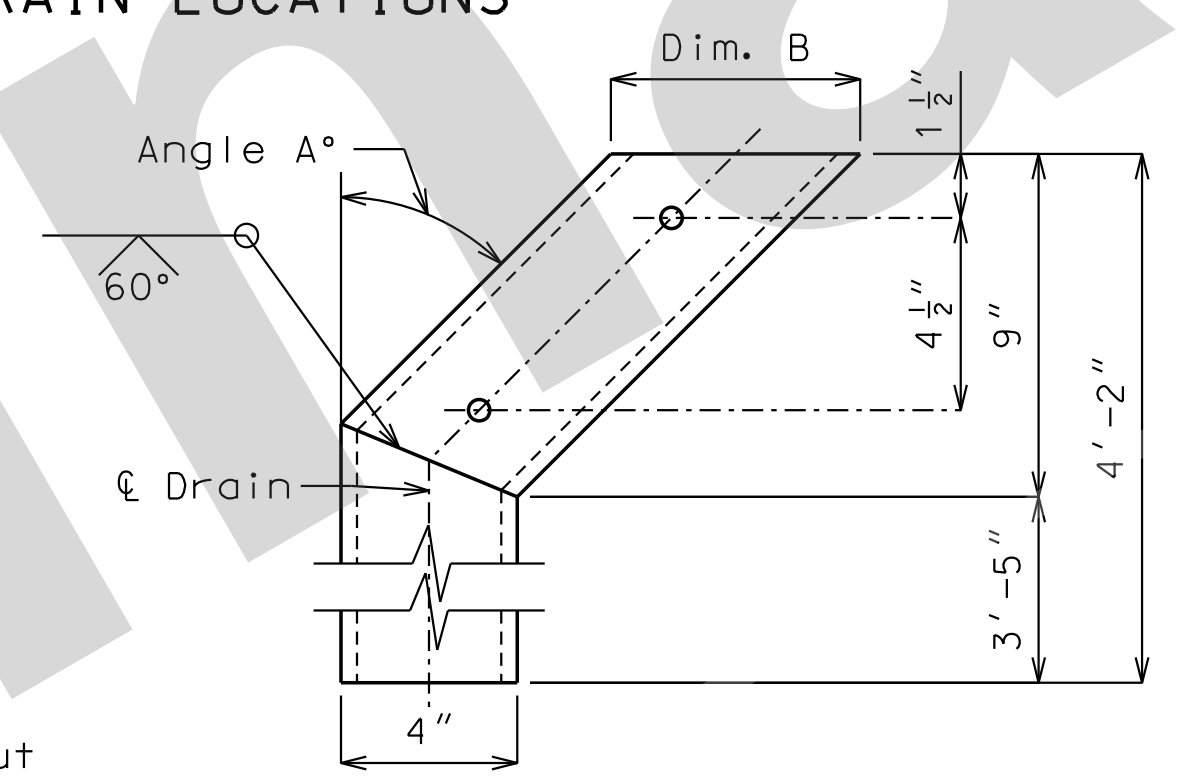
PART SECTION NEAR DRAIN RIGHT BARRIER CURB



PART SECTION SHOWING BRACKET ASSEMBLY

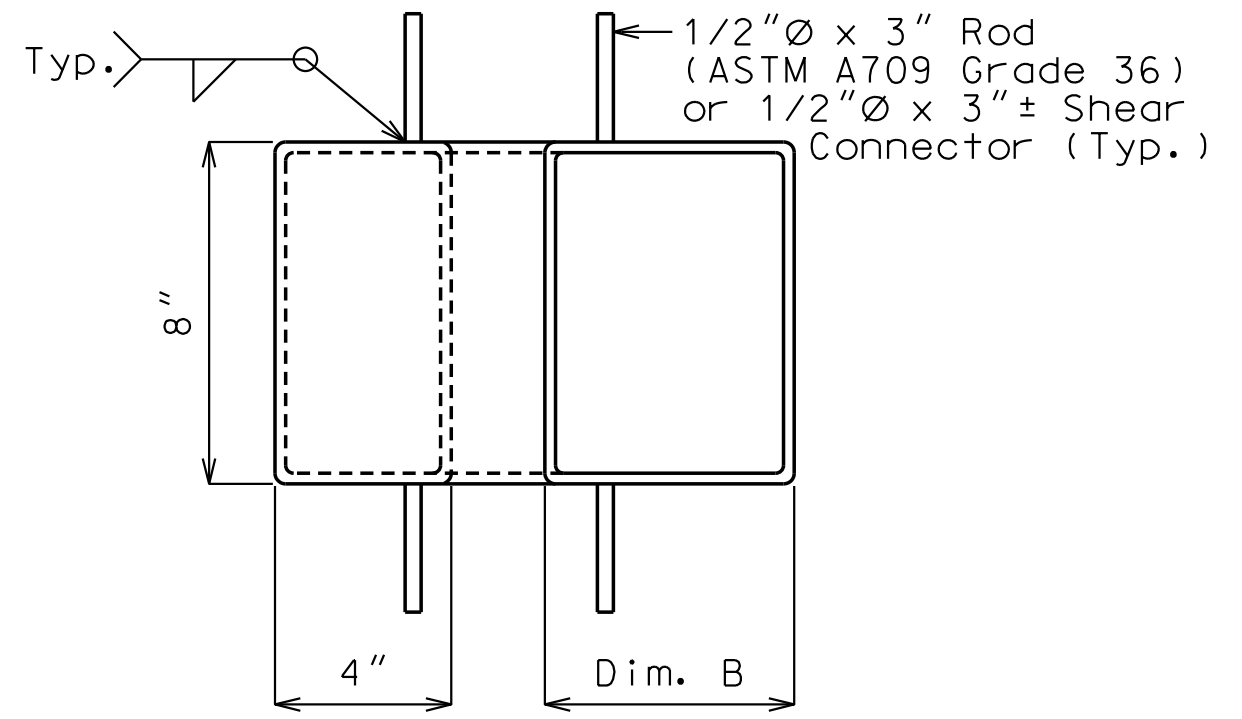


PART PLAN OF SLAB AT DRAIN

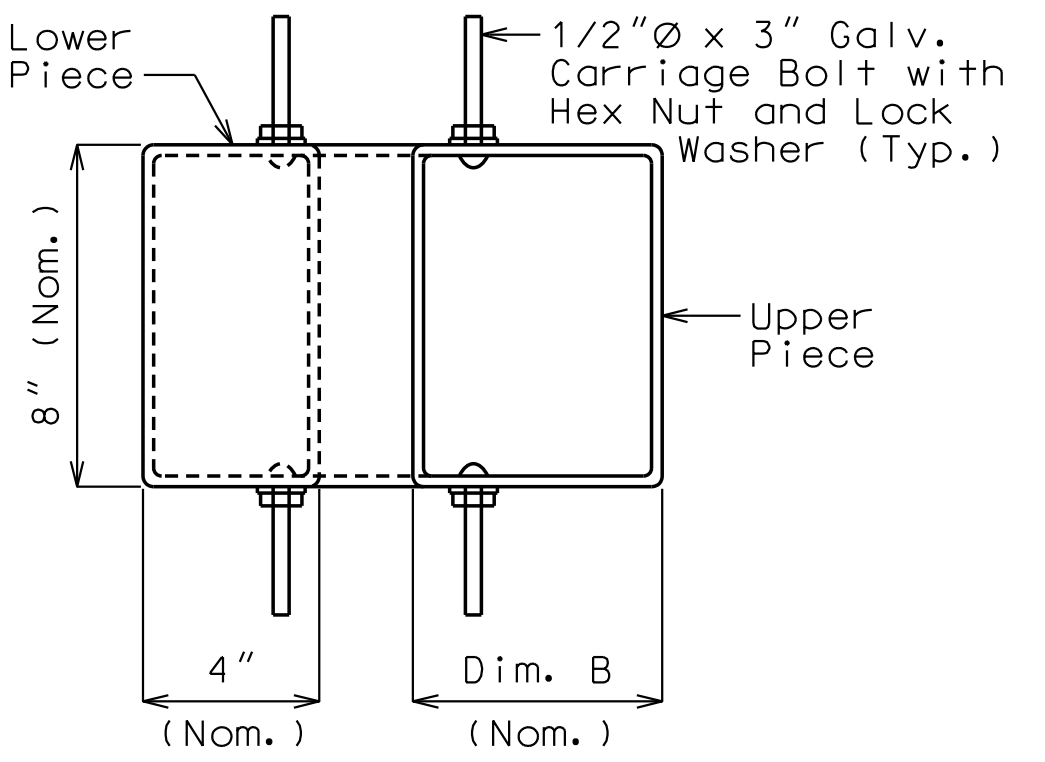


ELEVATION OF DRAIN

Location	Angle A°	Dim. B
Left Barrier	45°	5 5/8"
Right Barrier	20°	4 1/4"



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

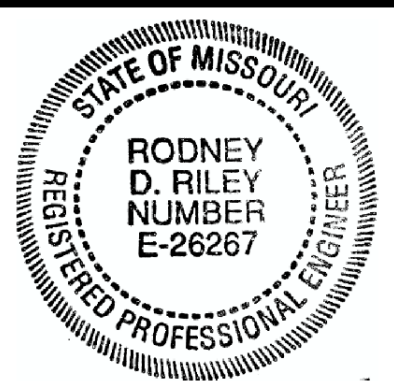
General Notes:
 Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.
 Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.
 Locate drains in slab by dimensions shown in Part Section Near Drain.
 Reinforcing steel shall be shifted to clear drains.
 The bracket assembly shall be galvanized in accordance with ASTM A123.
 All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.
 All 1/2"Ø bolts shall be ASTM A307, except as shown.
 Shop drawings will not be required for the slab drains and the bracket assembly.
 The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

Notes for Steel Drain:
 Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.
 Outside dimensions of drains are 8" x 4".
 The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:
 Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:
 Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".
 Minimum reinforced wall thickness shall be 1/4 inch.
 The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.
 The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be recommended by the manufacturer to ensure a smooth, chip free cut.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 10-AUG-2021

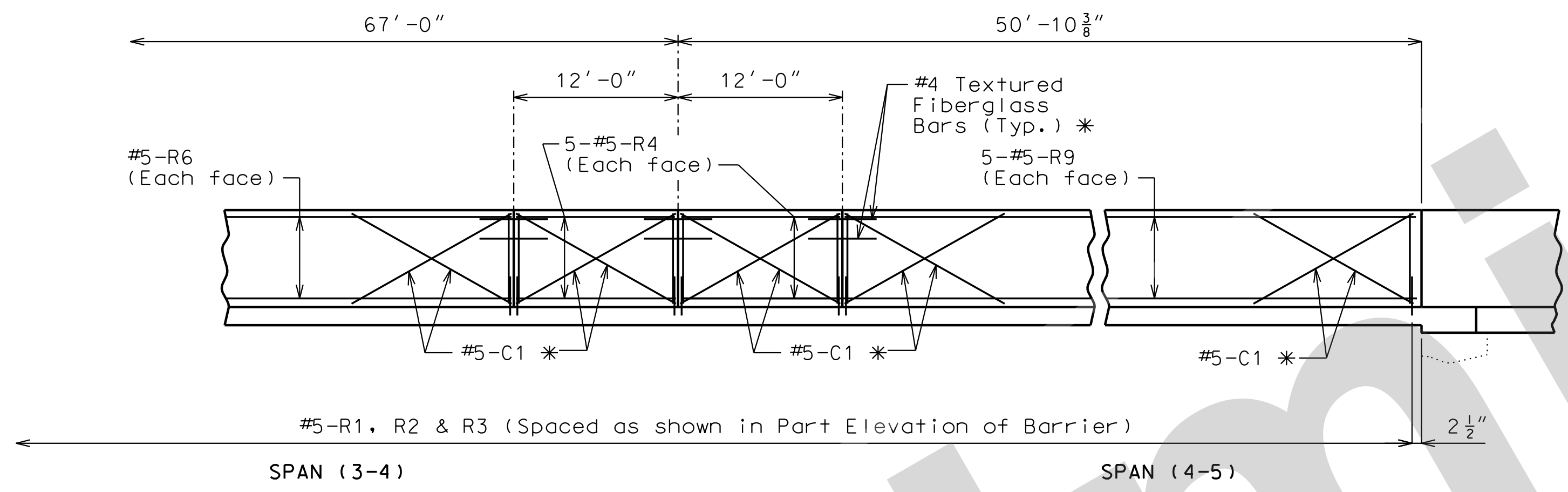
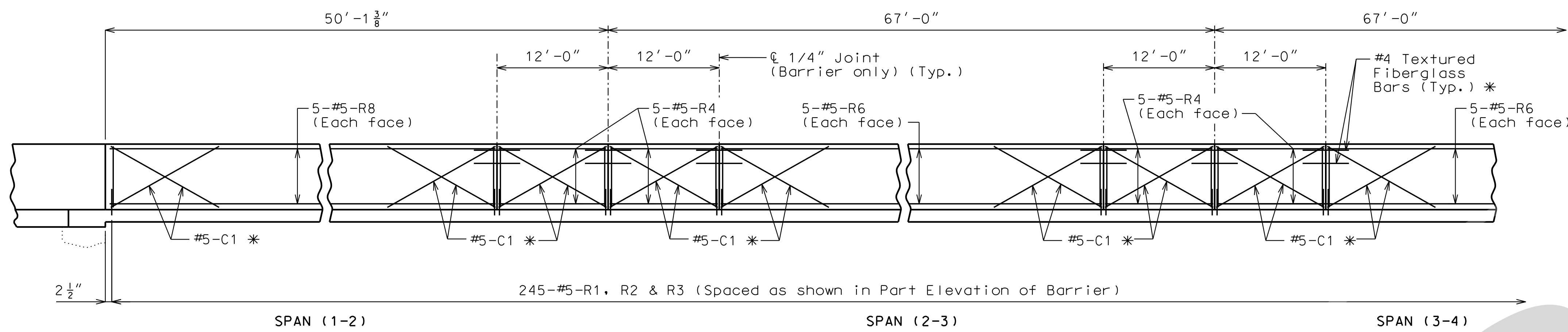
ROUTE: I-55	STATE: MO
DISTRICT: BR	SHEET NO.: 4
COUNTY: ST. LOUIS	
JOB NO.: J613187	
CONTRACT ID.:	
PROJECT NO.:	
BRIDGE NO.: A05914	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

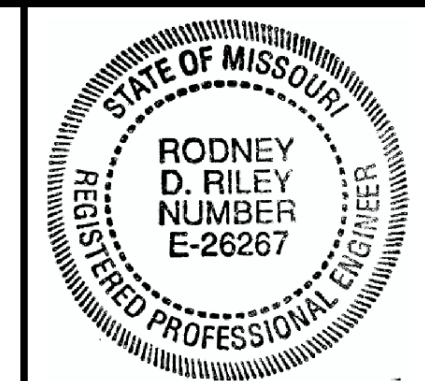
105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)





DEVELOPED ELEVATION OF RIGHT BARRIER CURB

General Notes:
Work this sheet with Sheet No. 5.



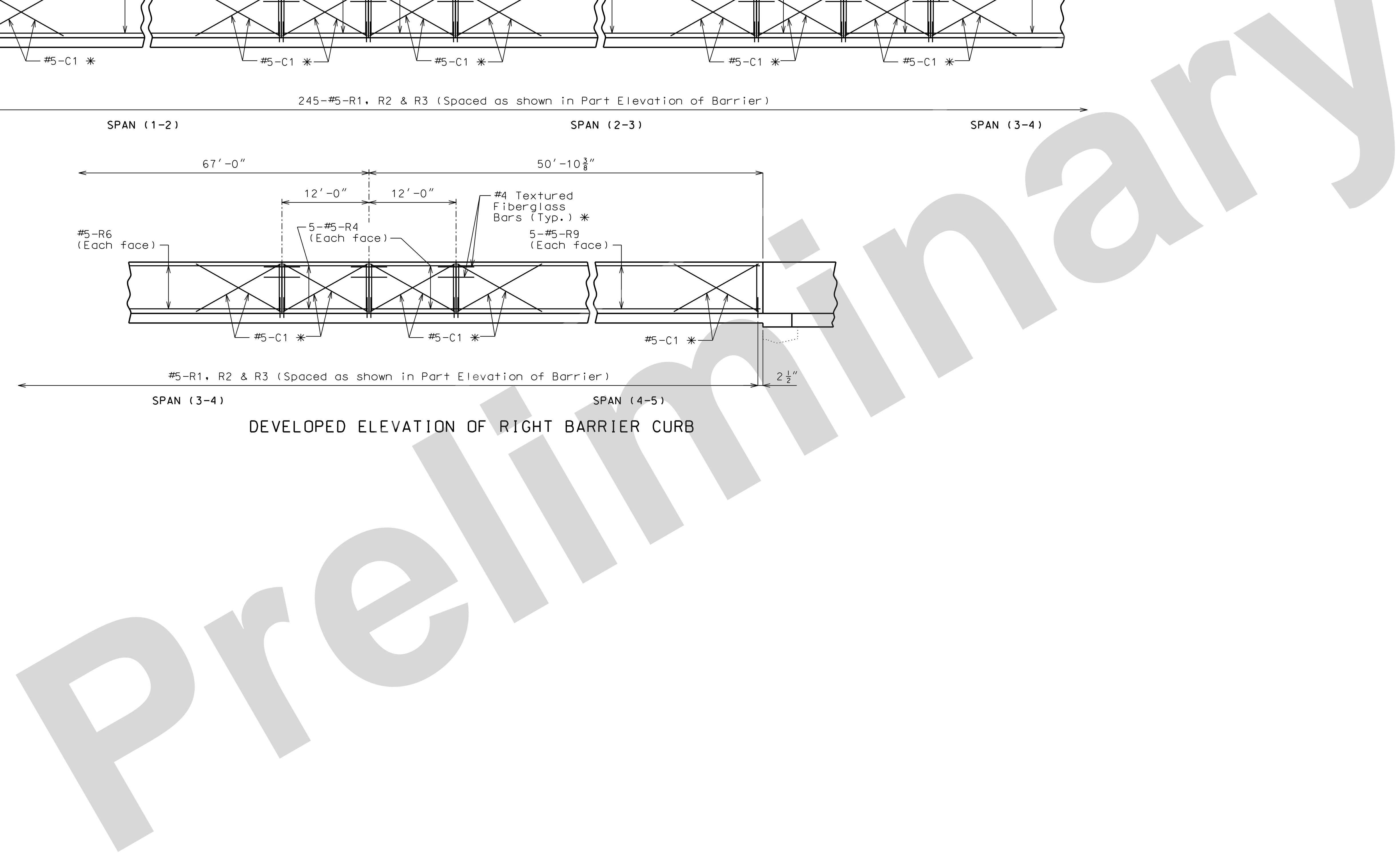
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
DATE PREPARED 10-AUG-2021
ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 6
COUNTY ST. LOUIS
JOB NO. J613187
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A05914

DESCRIPTION	DATE

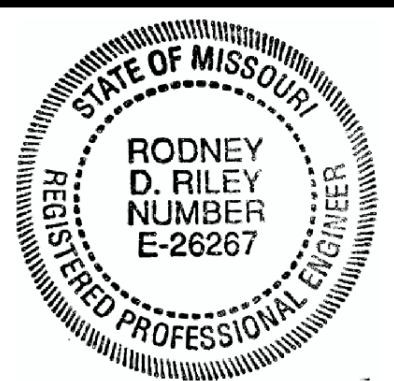
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704



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THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05914

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

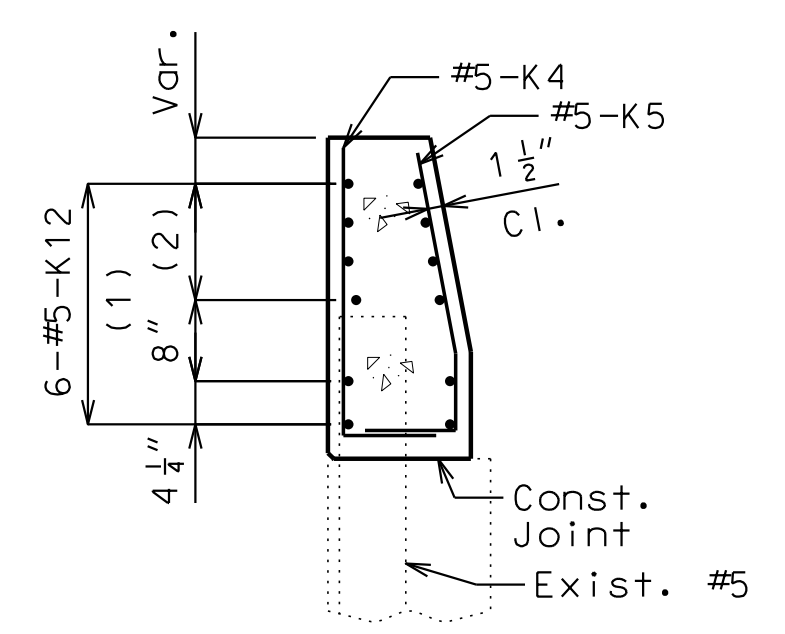
1-888-ASK-MODOT (1-888-275-6636)

Modot Logo

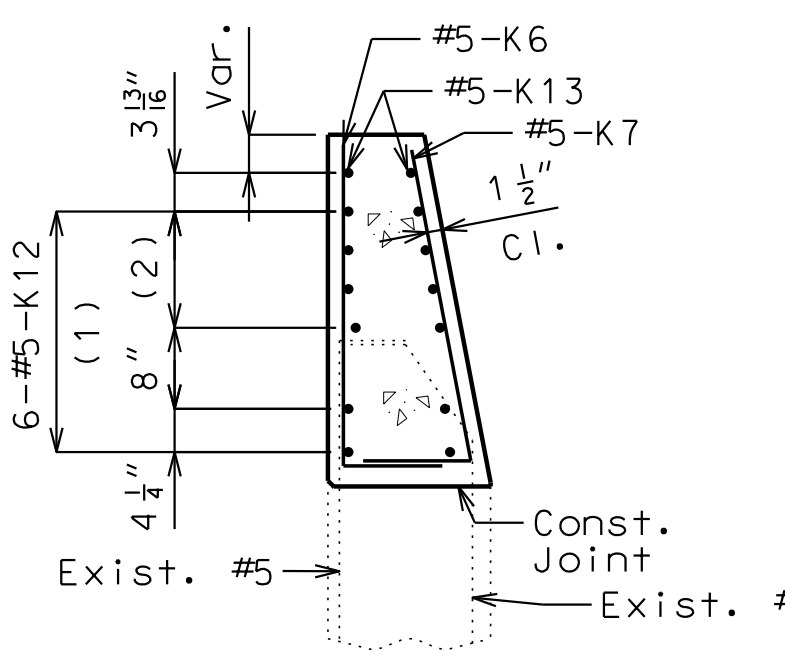
JACOBS GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

JACOBS

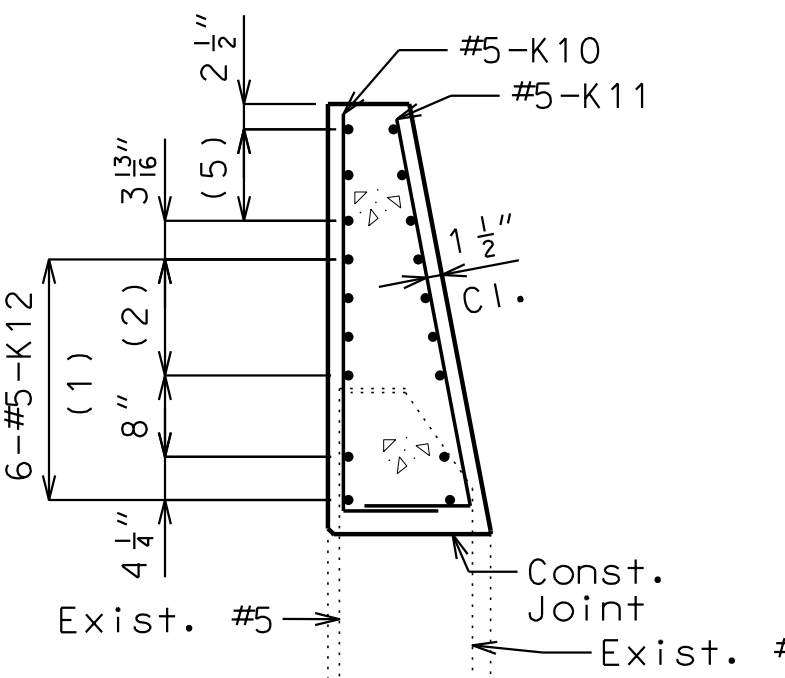
REV.



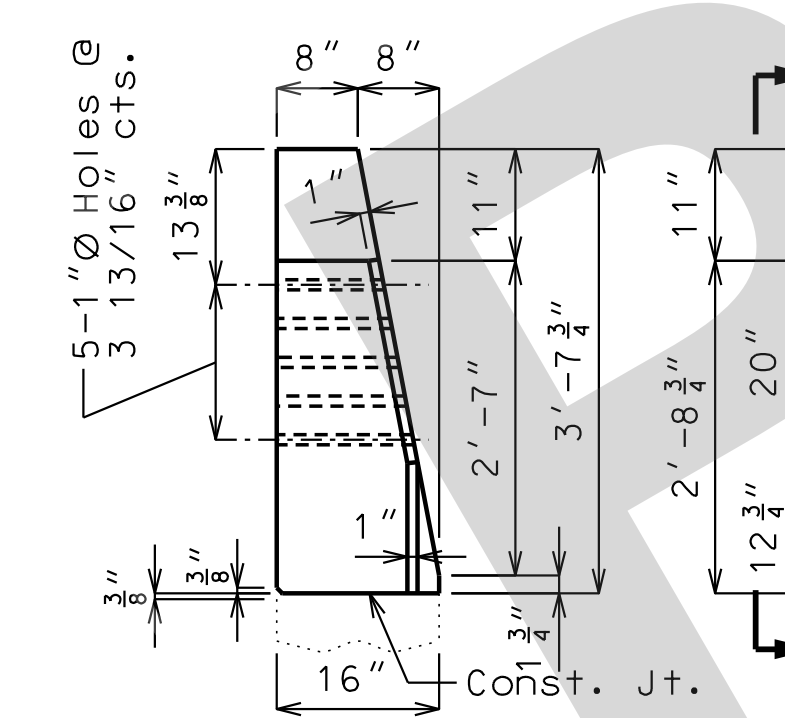
SECTION A-A



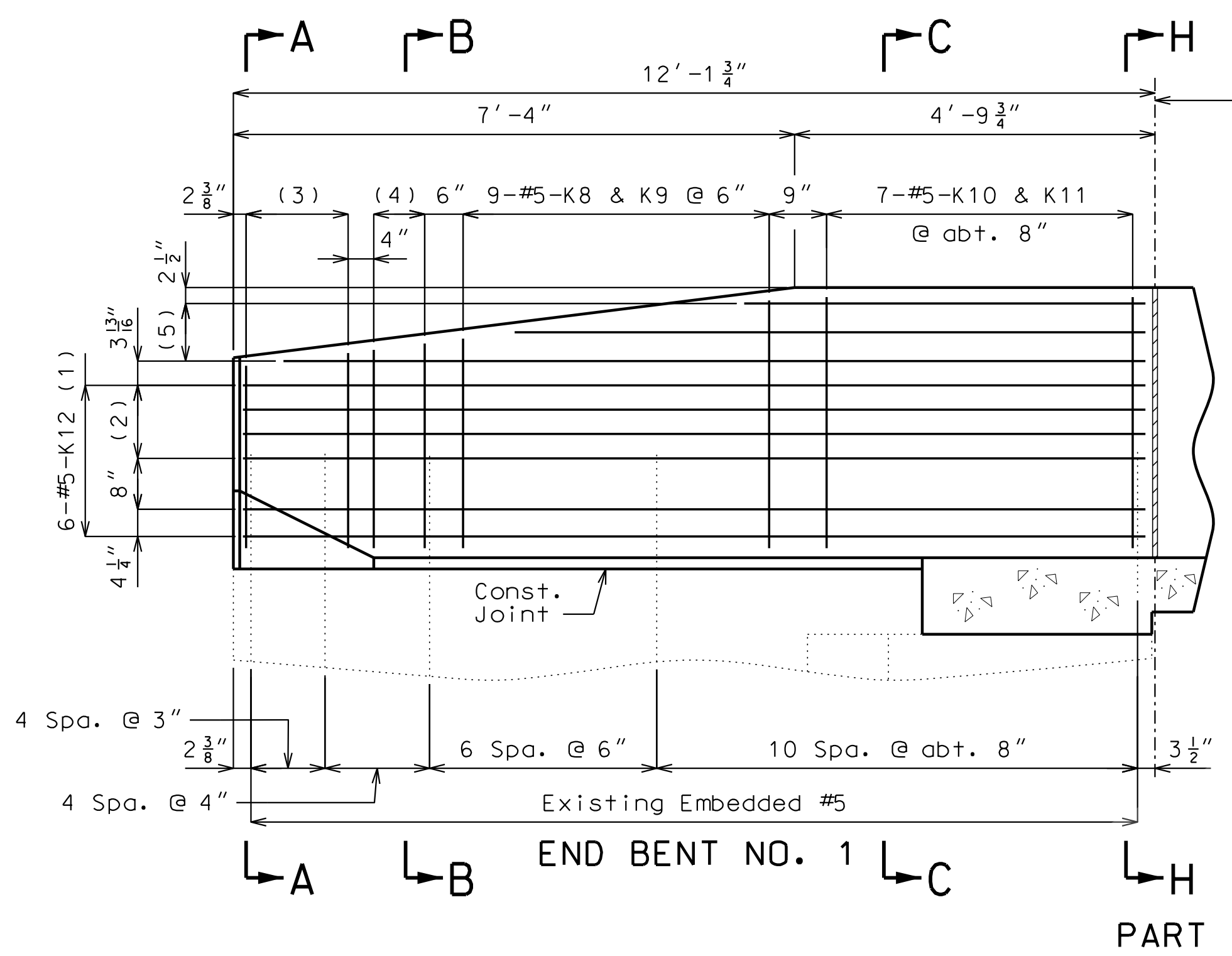
SECTION B-B



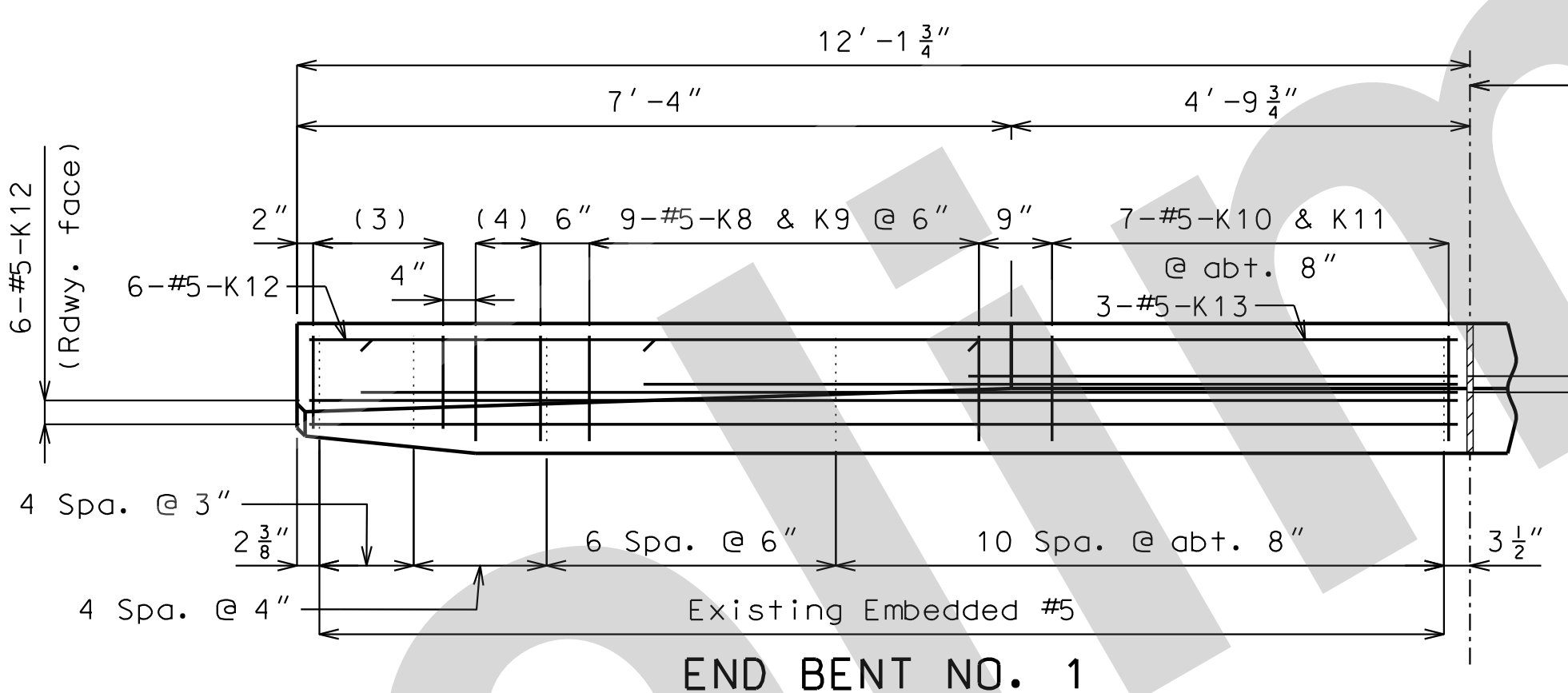
SECTION C-C



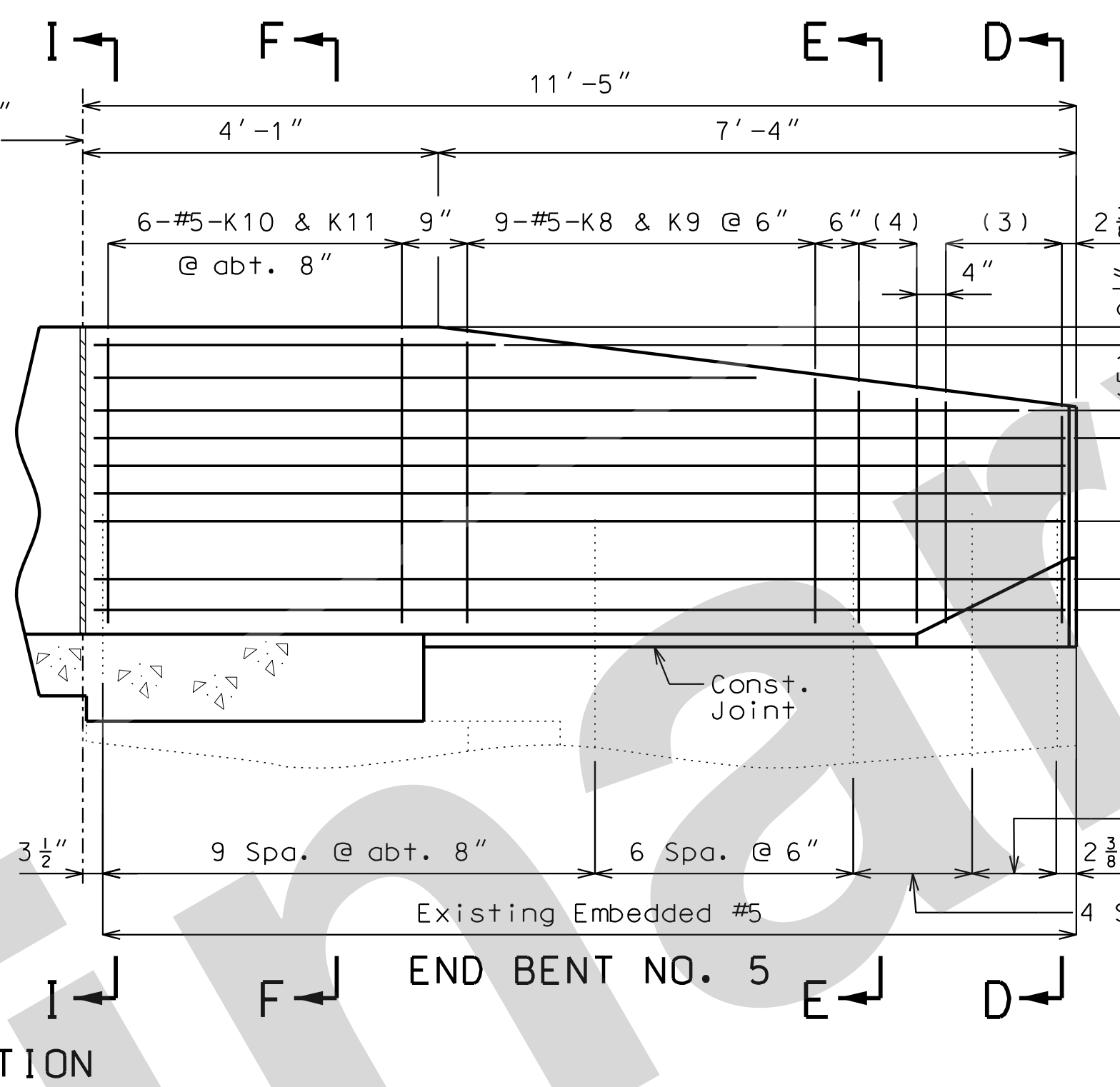
ELEVATION G-G



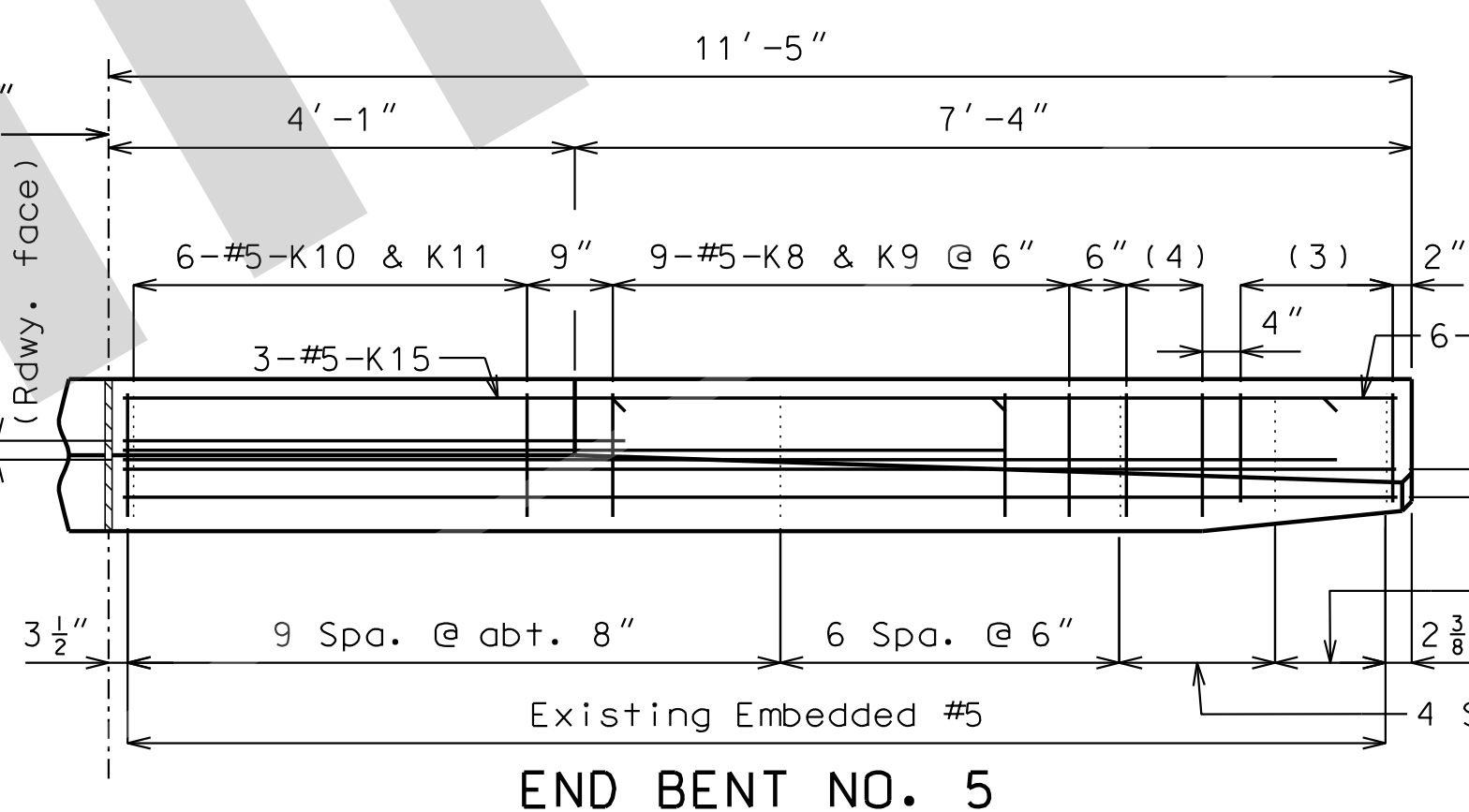
PART ELEVATION



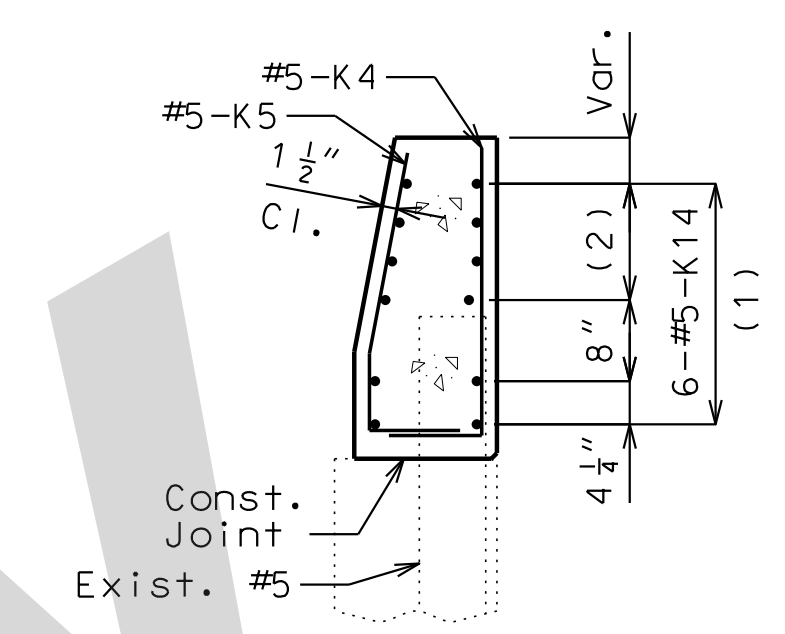
PART PLAN



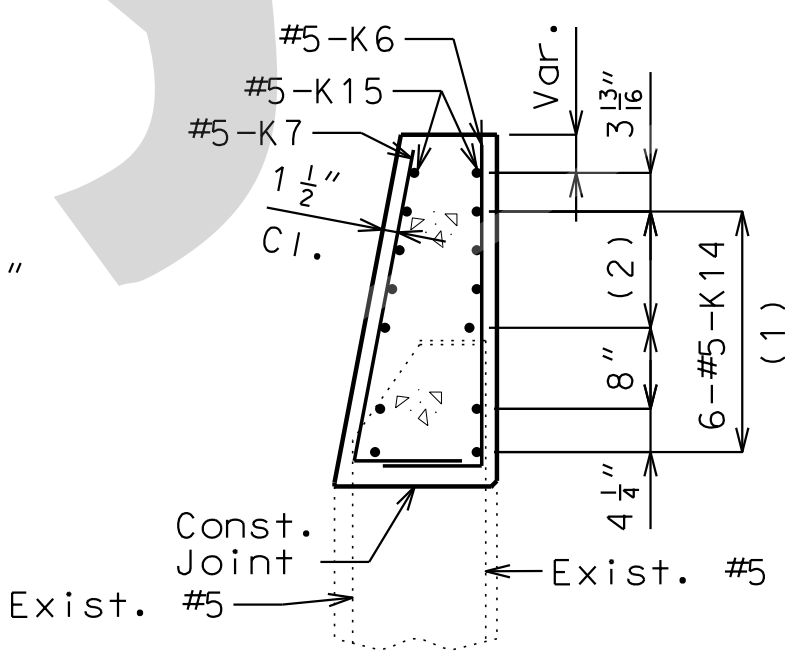
PART ELEVATION



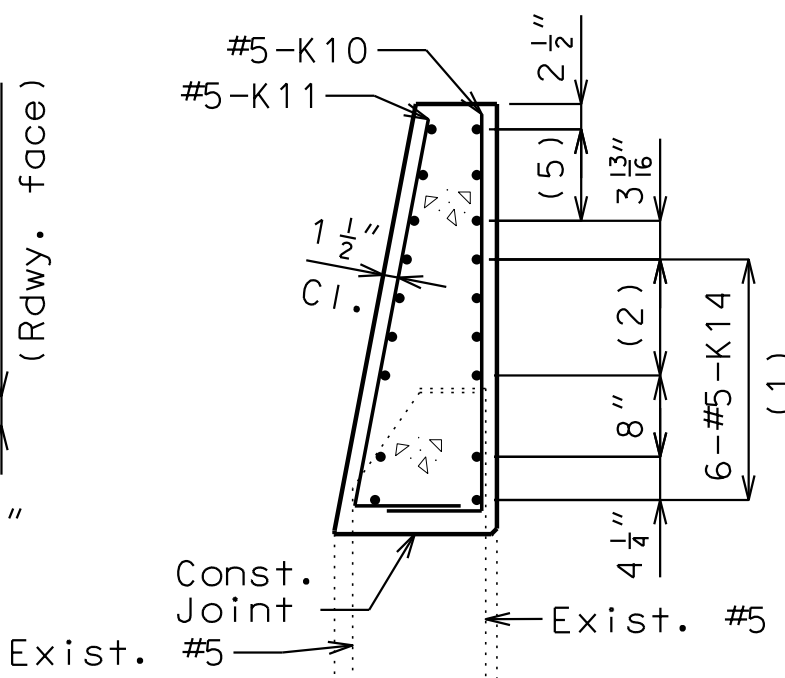
PART PLAN



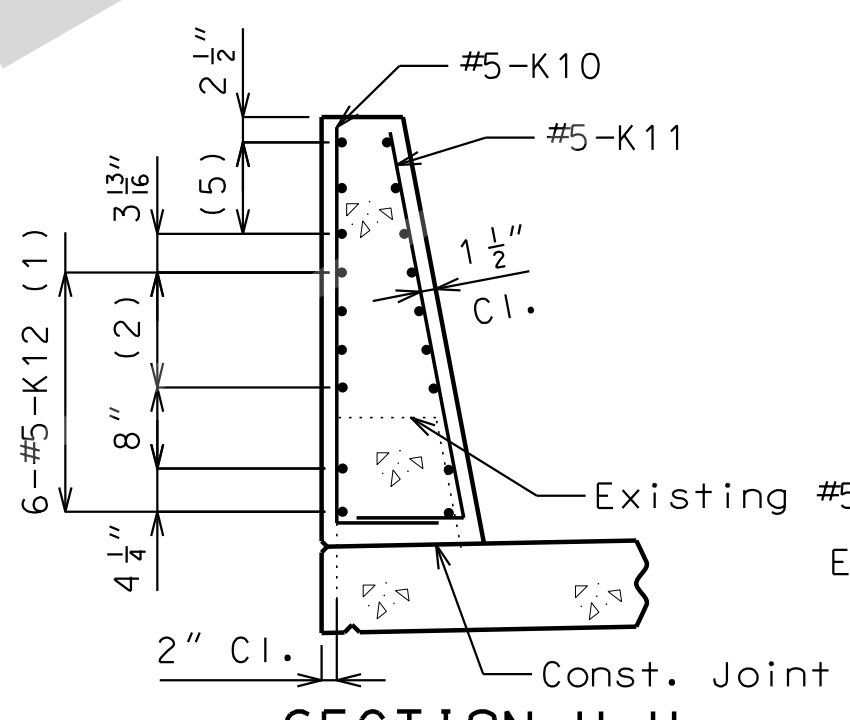
SECTION D-D



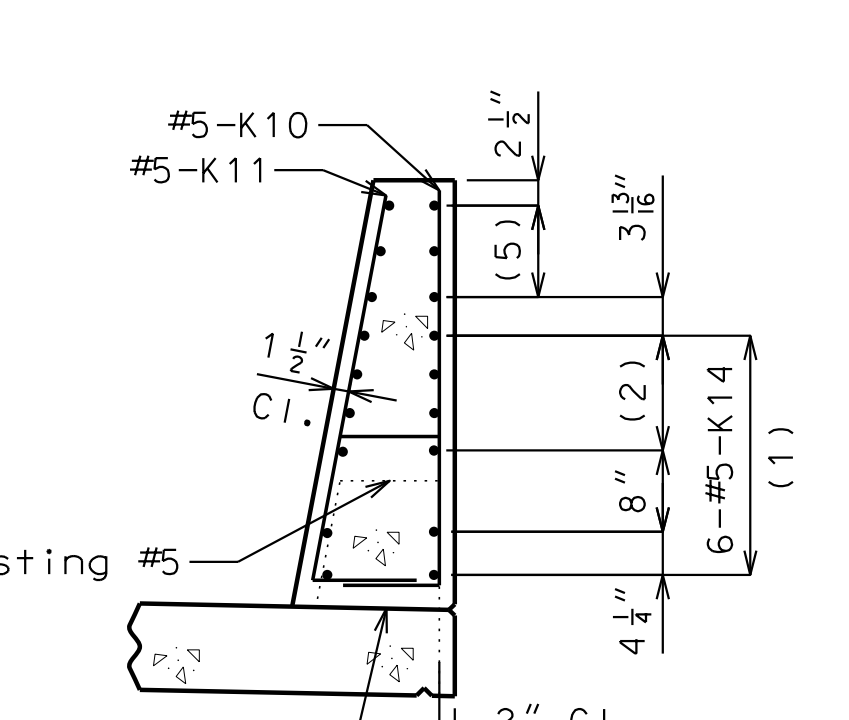
SECTION E-E



SECTION F-F

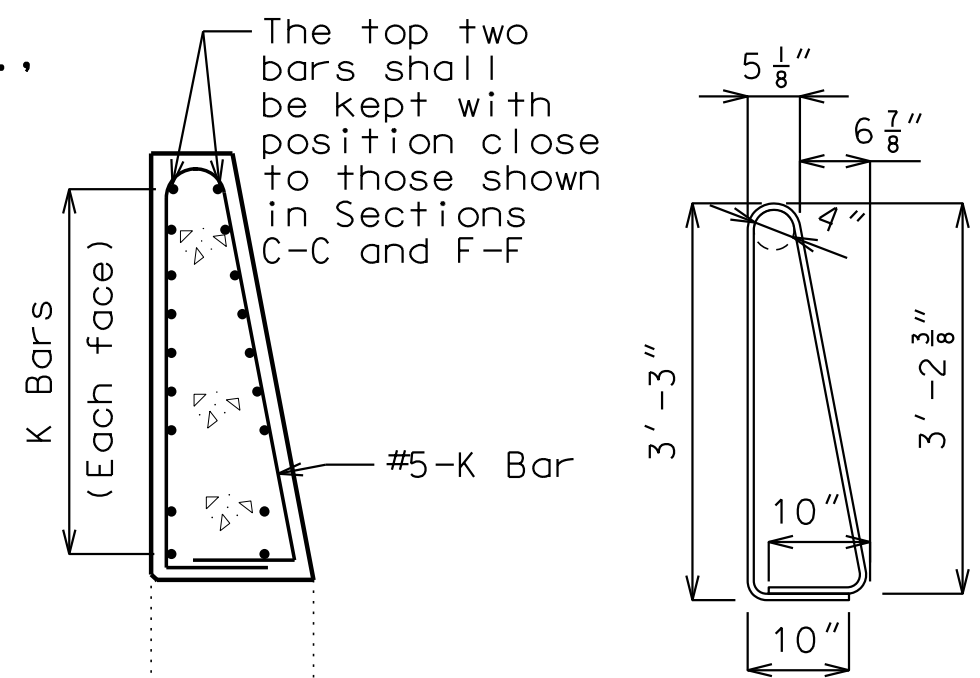


SECTION H-H



SECTION I-I

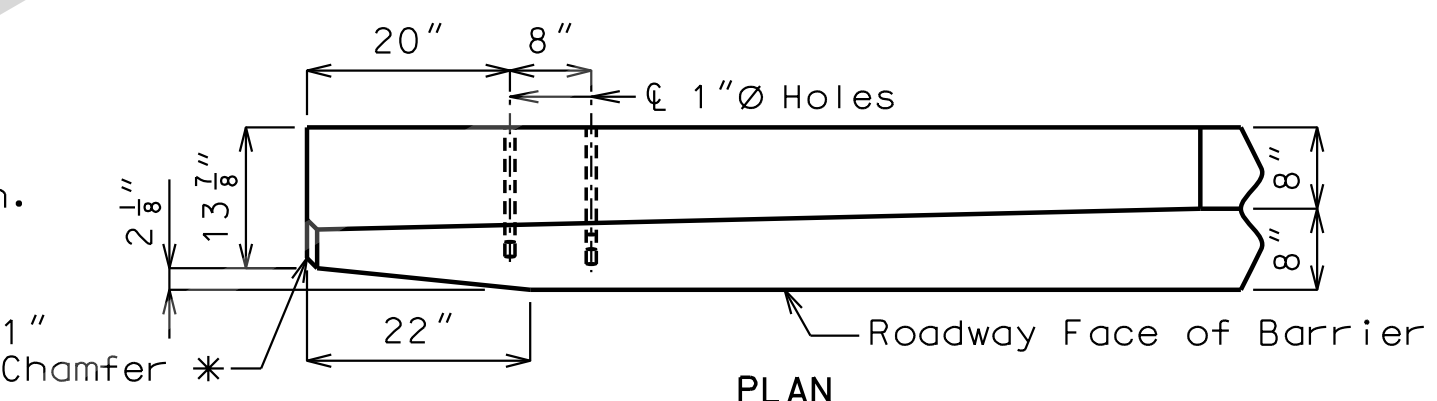
- (1) Spaced as shown, each face
- (2) 3 spaces @ 3 13/16"
- (3) 5-#5-K4 & K5 @ 4" cts.
- (4) 3-#5-K6 & K7 @ 4" cts.
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

* Transition to zero at Type A curb for gutter lines to match.



DETAILS OF GUARD RAIL ATTACHMENT

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

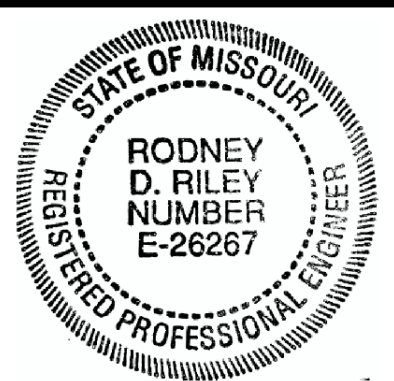
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

TYPE D BARRIER AT END BENTS - LEFT CURB

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 11



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 8

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05914

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

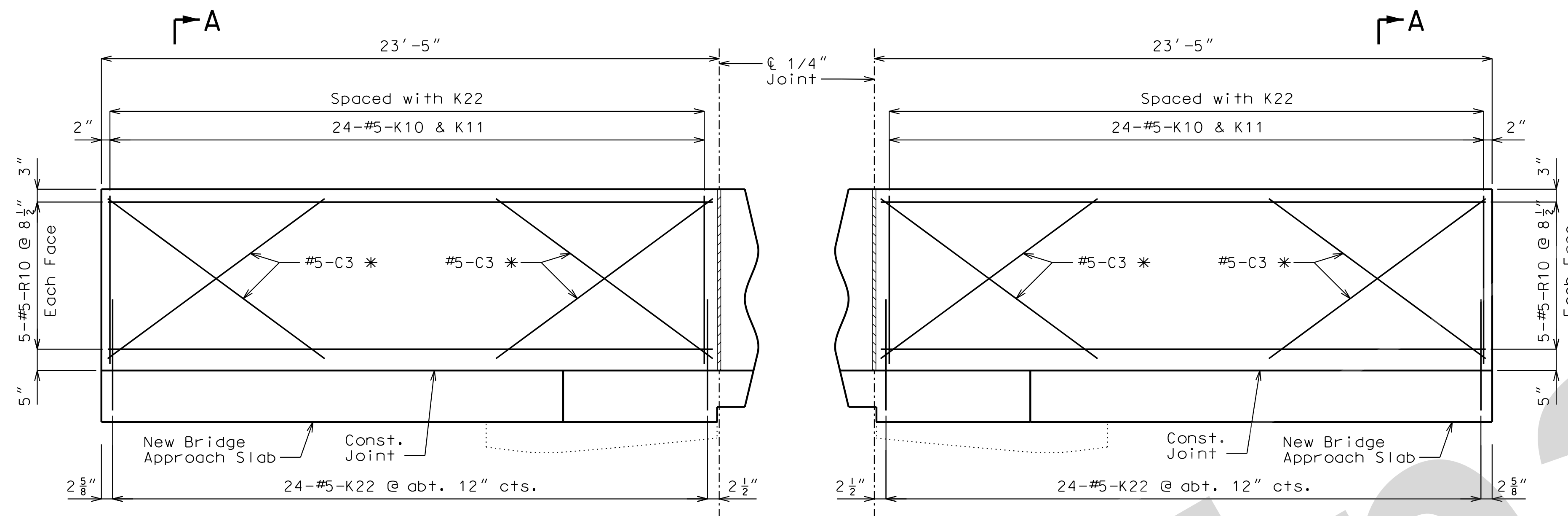
CERTIFICATE OF AUTHORITY #00704

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

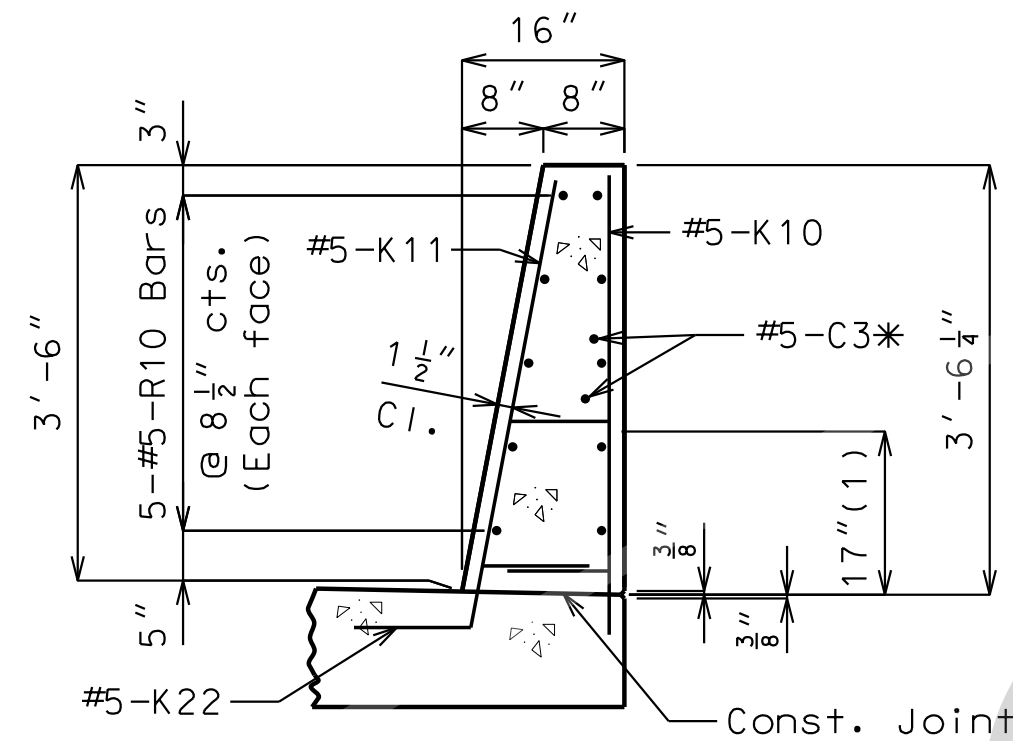
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



ELEVATION AT END BENT NO. 1

ELEVATION AT END BENT NO. 5

ELEVATION



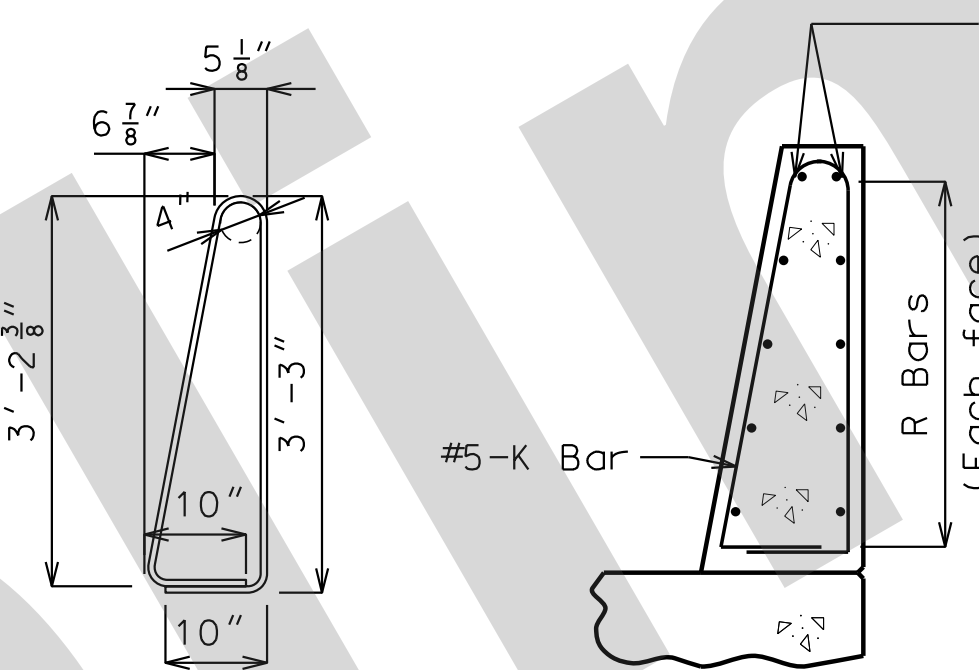
SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.52 square feet.

(1) To top of bar

* Slip-formed option only



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

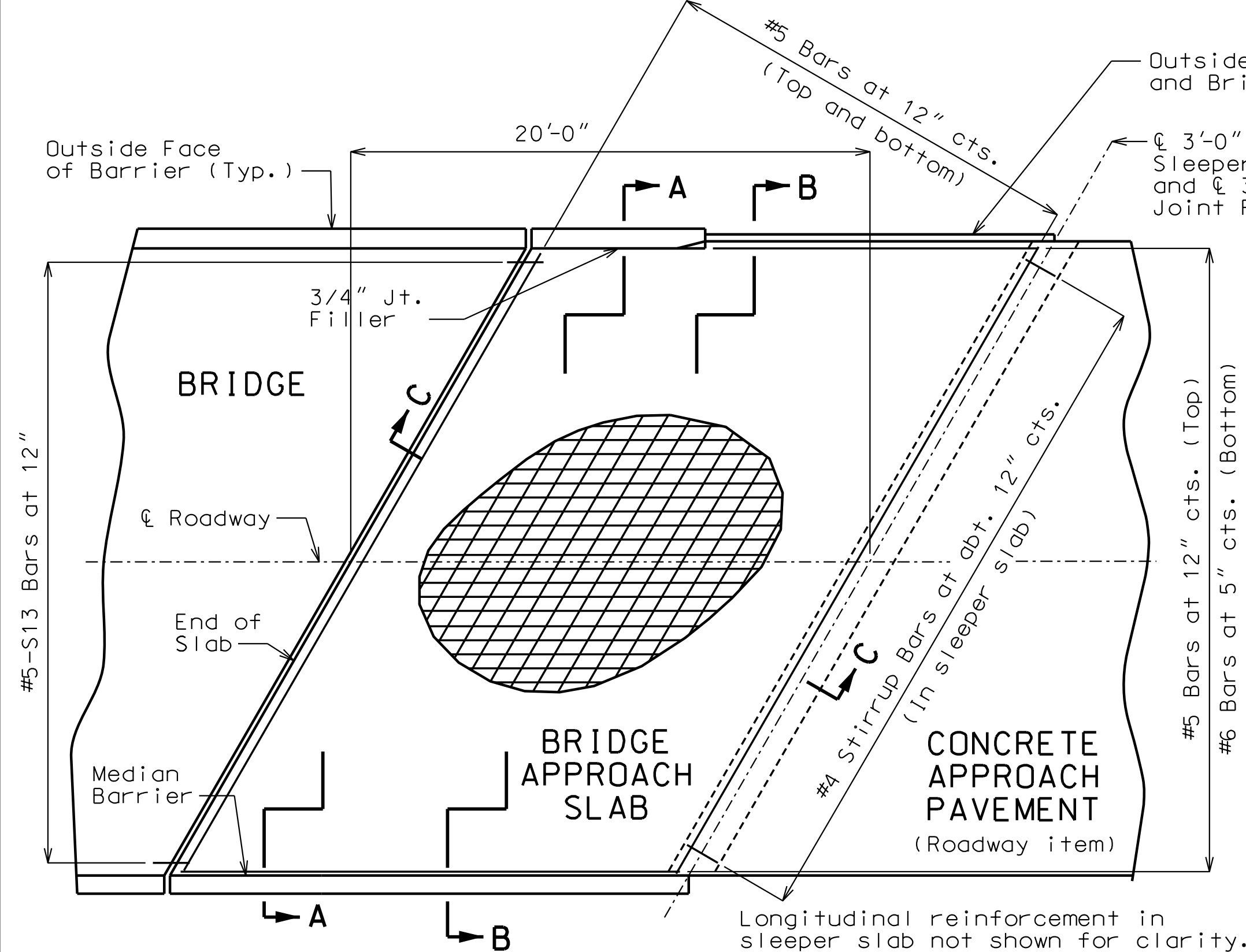
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

The top two bars shall be kept with position close to those shown in Section A-A

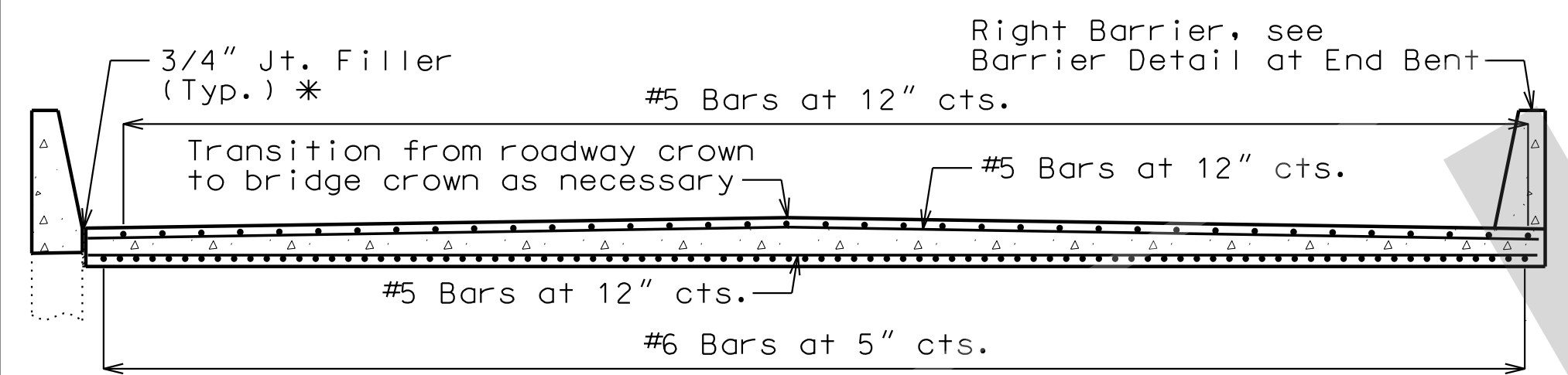
TYPE D BARRIER AT END BENTS - RIGHT CURB

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

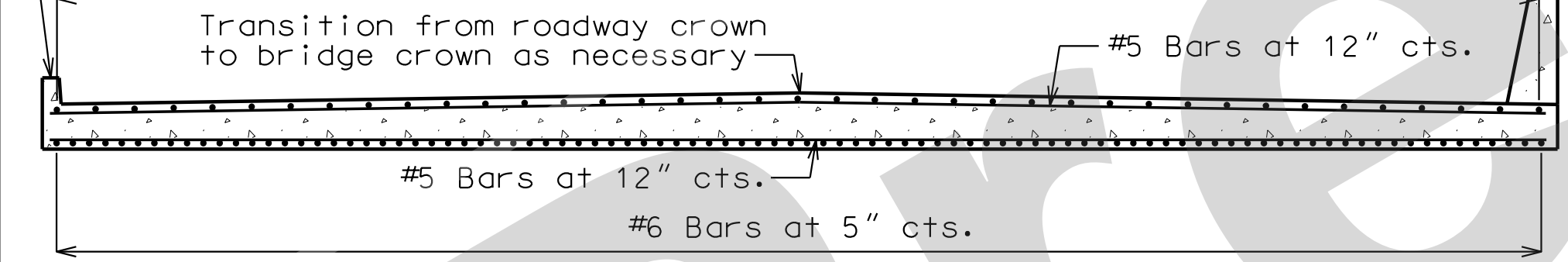
REV.



PART PLAN SHOWING REINFORCEMENT
(End Bent 5 shown, End Bent 1 similar)

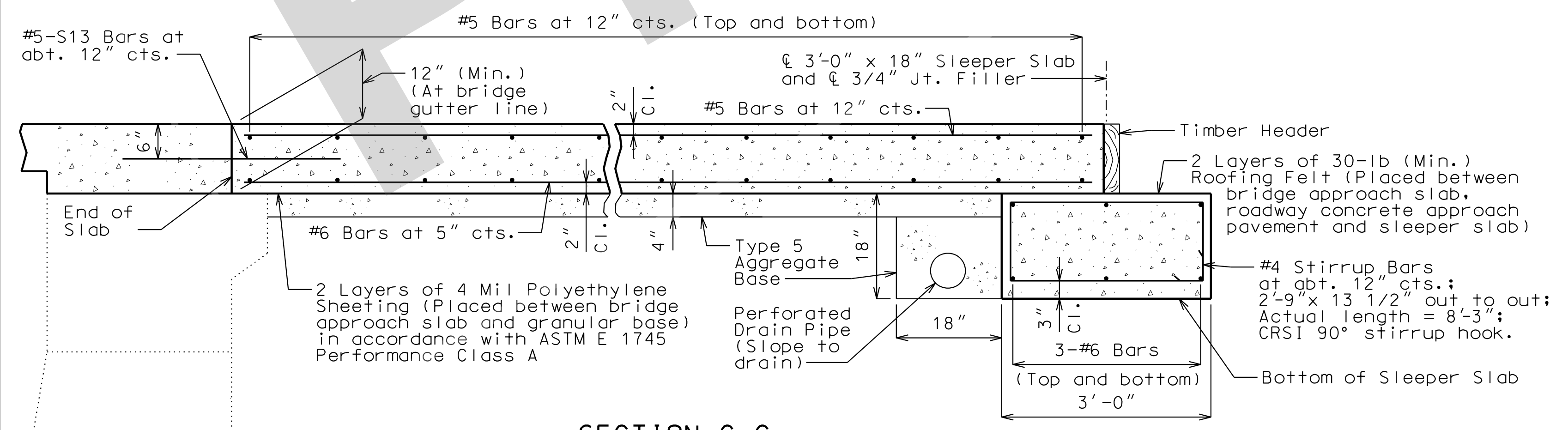


SECTION A-A



SECTION B-B

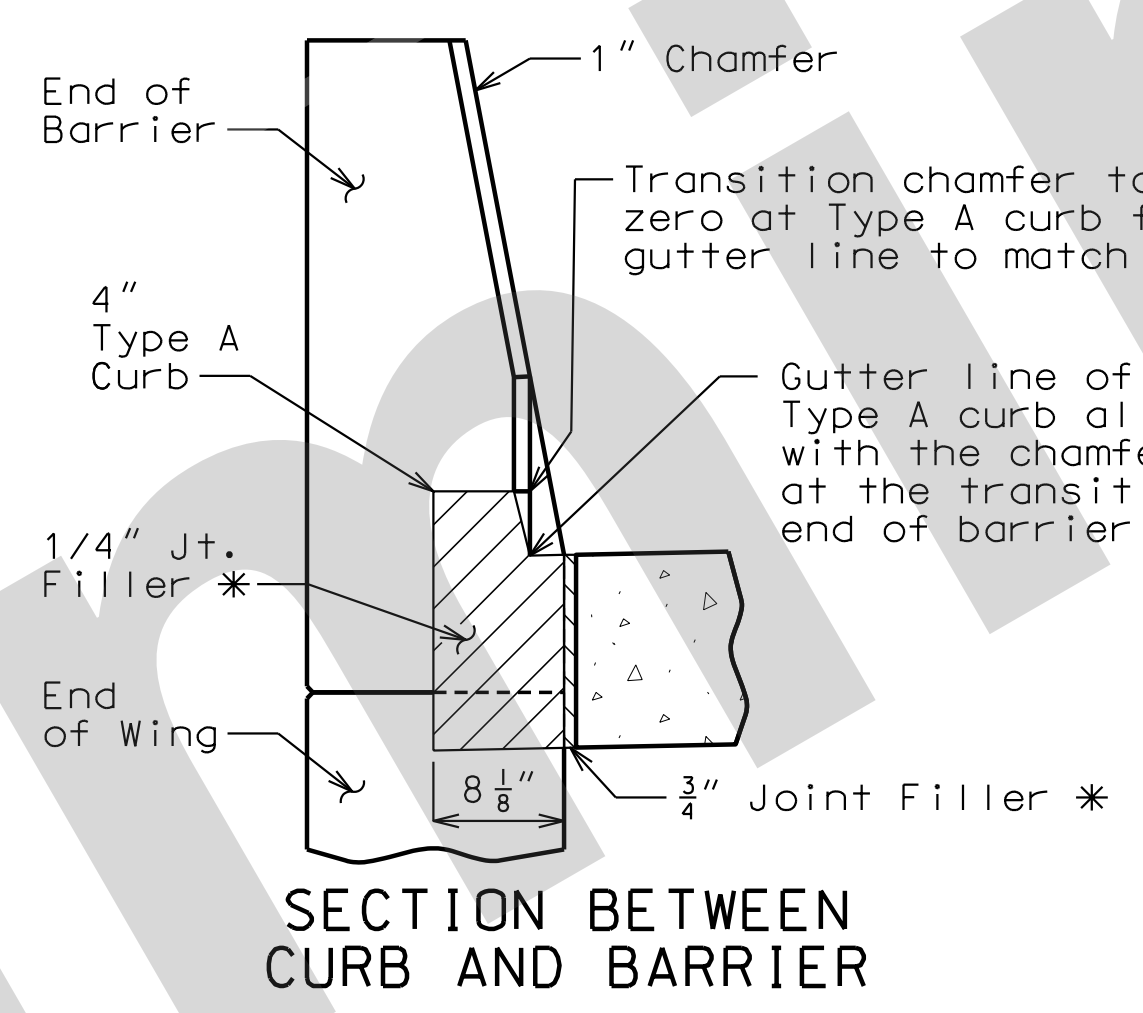
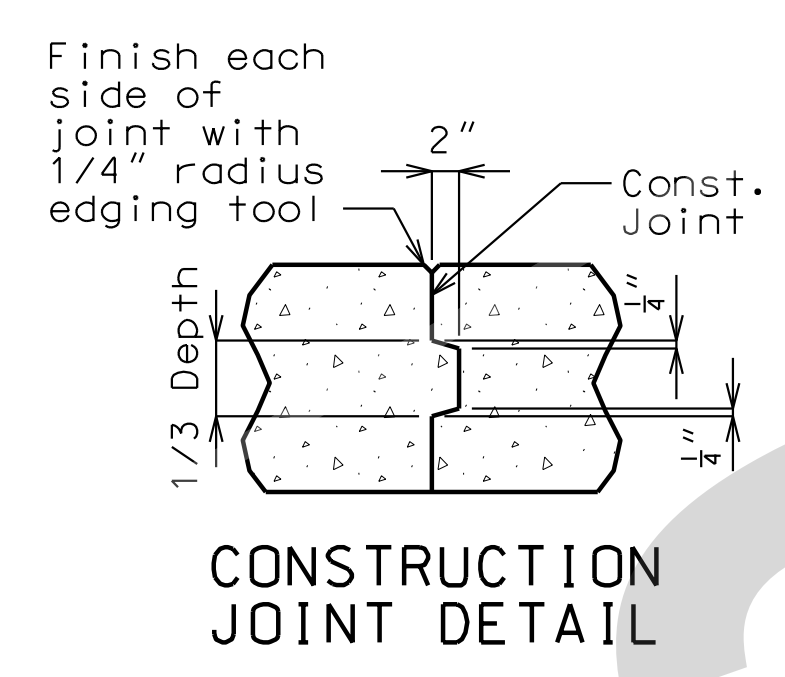
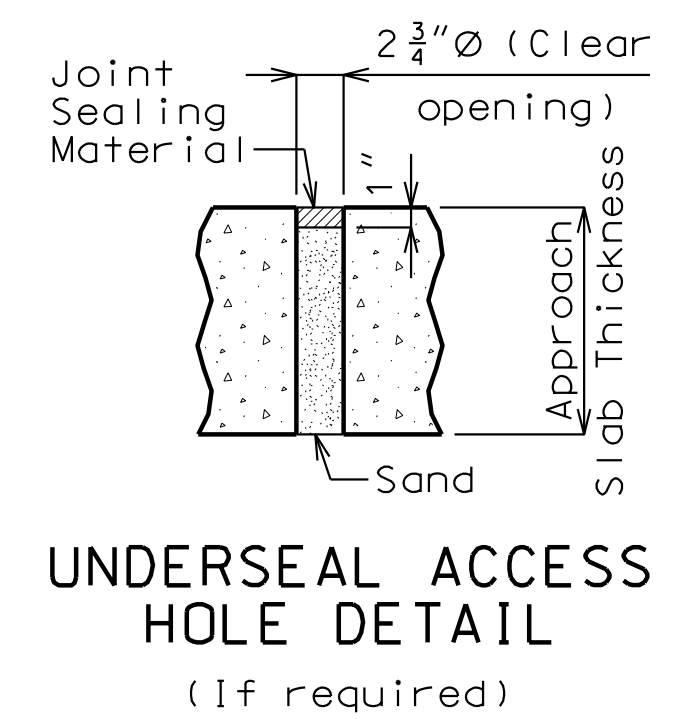
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



SECTION C-C

BRIDGE APPROACH SLAB (MAJOR)

Note: This drawing is not to scale. Follow dimensions.



SECTION BETWEEN CURB AND BARRIER

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).
The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.
Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

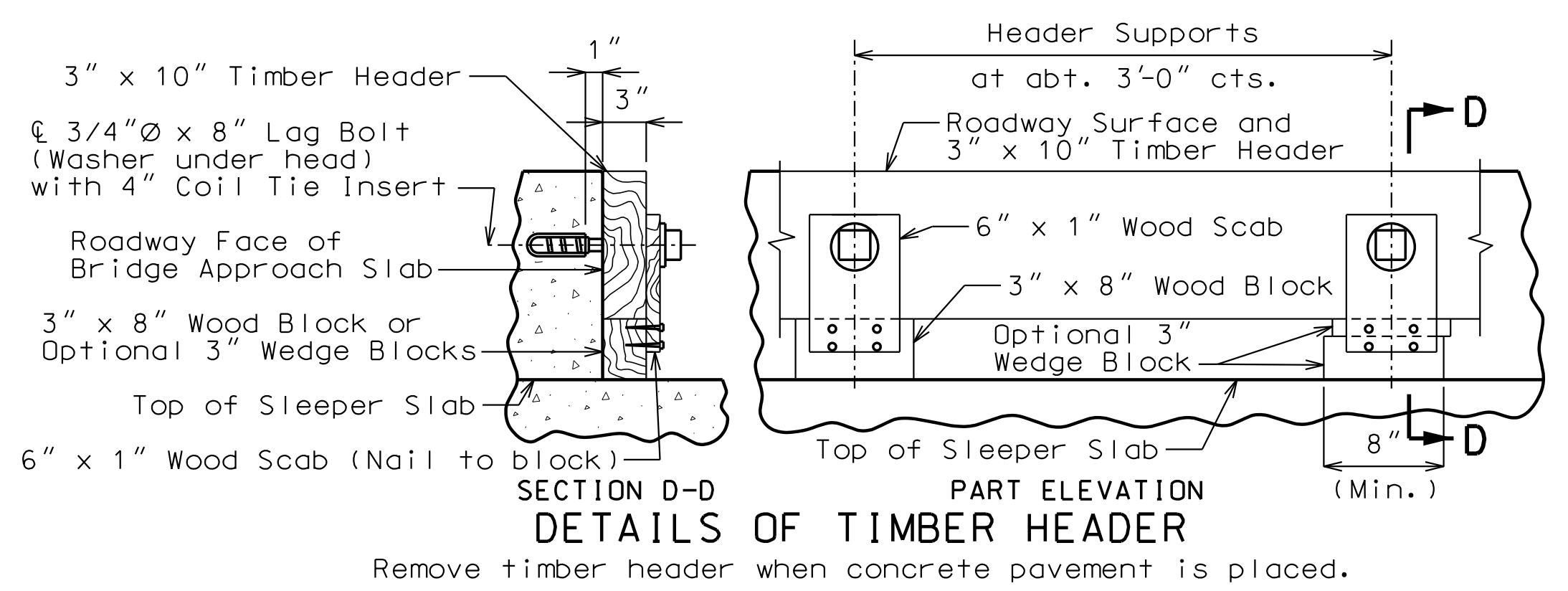
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.
The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.
The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.
See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



SECTION D-D
DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 9

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05914

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

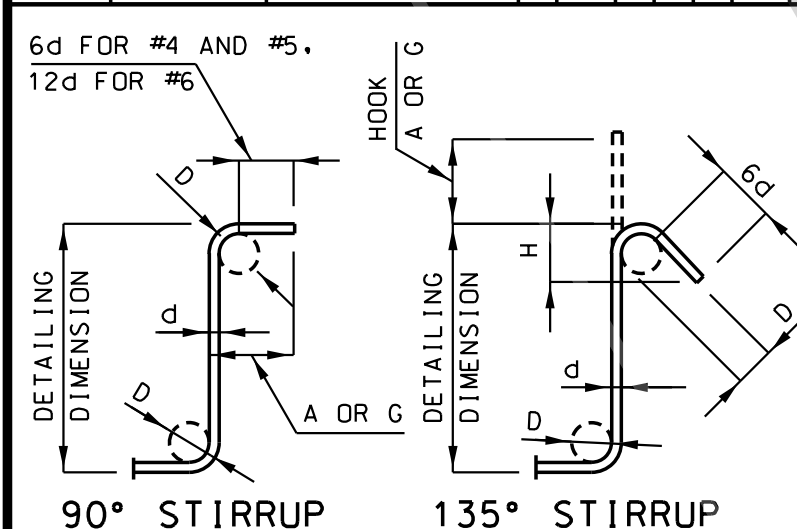
JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

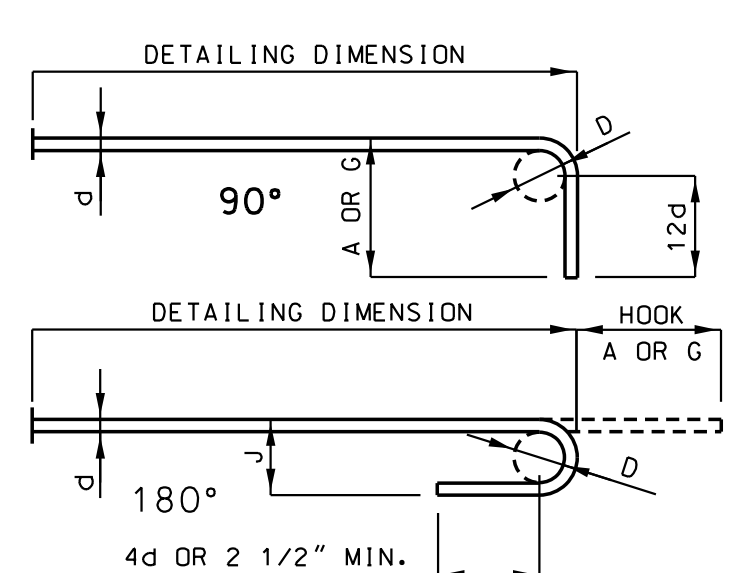
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS										NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B	C	D	E	F	H	K	FT.	IN.	FT.				IN.
SUBSTRUCTURE																						
END BENTS																						
3	5 H1	EB1 CORBEL	E	20		X			15	8.000								15	8	15	8	49
3	5 H2	EB1 CORBEL	E	20		X			6	5.000								6	5	6	5	20
3	5 H3	EB5 CORBEL	E	20		X			16	5.000								16	5	16	5	51
3	5 H4	EB5 CORBEL	E	20		X			6	11.000								6	11	6	11	22
SUPERSTRUCTURE																						
SLAB																						
720	5 S1	SLAB	E	20					51	0.000								51	0	51	0	38299
30	6 S2	SLAB	E	20			V	1	2	0.000								2	0	2	0	785
		INCR. =							32	10.000								32	10	32	10	
		12.75 in																				
384	6 S3	SLAB	E	20					33	11.000								33	11	33	11	19562
28	6 S4	SLAB	E	20			V	1	4	7.000								4	7	4	7	797
		INCR. =							33	4.000								33	4	33	4	
		12.75 in																				
28	6 S5	SLAB	E	20			V	1	5	0.000								5	0	5	0	815
		INCR. =							33	9.000								33	9	33	9	
		12.75 in																				
383	6 S6	SLAB	E	20					34	4.000								34	4	34	4	19751
31	6 S7	SLAB	E	20			V	1	2	0.000								2	0	2	0	836
		INCR. =							33	11.000								33	11	33	11	
		12.75 in																				
204	6 S8	SLAB	E	20					30	0.000								30	0	30	0	9192
102	6 S9	SLAB	E	20					32	0.000								32	0	32	0	4903
10	6 S10	SLAB	E	20					39	2.000								39	2	39	2	588
10	6 S11	SLAB	E	20					38	0.000								38	0	38	0	571
48	6 S12	SLAB	E	20					4	0.000								4	0	4	0	288
124	5 S13	SLAB	E	20					2	6.000								2	6	2	6	323
2151	4 S14	SLAB	E	10	S				0	6.000	0	5.000	0	6.500	0	6.000		2	5	2	0	2874
27	6 S15	SLAB	E	20			V	1	2	0.000								2	0	2	0	711
		INCR. =							33	0.625								33	1	33	1	
		14.375 in																				
335	6 S16	SLAB	E	20					33	11.000								33	11	33	11	17066
24	6 S17	SLAB	E	20			V	1	5	8.000								5	8	5	8	709
		INCR. =							33	8.000								33	8	33	8	
		14.625 in																				
25	6 S18	SLAB	E	20			V	1	4	10.000								4	10	4	10	731
		INCR. =							34	1.000								34	1	34	1	
		14.625 in																				
335	6 S19	SLAB	E	20					34	4.000								34	4	34	4	17276
27	6 S20	SLAB	E	20			V	1	2	0.000								2	0	2	0	723
		INCR. =							33	7.500								33	8	33	8	
		14.625 in																				



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		HOK A OR G	HOK A OR G	HOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	A OR G
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

NOTE:
 ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 E = EPOXY COATED REINFORCEMENT.
 S = STIRRUP.
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
 FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS										NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT						
									B	C	D	E	F	H	K	FT.	IN.	FT.				IN.	FT.	IN.	FT.	IN.	FT.
TYPE D BARRIER CURB																											
10	5 K4	BARRIER	E	19	S		V	2	2	4.500								2	5	2	3	24					
		INCR. =							2	6.250								2	6	2	5						
		.5 in																									
10	5 K5	BARRIER	E	14	S		V	2	0	8.375	0	9.625	1	6.500			0	4.000	1	6.000	3	1	2	11	31		
		INCR. =							0	8.375	0	9.625	1	8.500			0	4.500	1	8.000	3	3	3	1			
		.5 in																									
6	5 K6	BARRIER	E	19	S		V	2	2	6.750	0	10.000						3	5	3	4			21			
		INCR. =							2	7.750	0	10.000						3	6	3	4						
		.5 in																									
6	5 K7	BARRIER	E	21	S		V	2	2	6.750	0	10.000						2	6.125	0	6.250	3	5	3	3	21	
		INCR. =							2	7.750	0	10.000						2	7.125	0	6.500	3	6	3	4		
		.5 in																									
18	5 K8	BARRIER	E	19	S		V	2	2	8.500	0	10.000						3	7	3	5				69		
		INCR. =							3	2.500	0	10.000						4	1	3	11						
		.75 in																									
18	5 K9	BARRIER	E	21	S		V	2	2	8.625	0	10.000						2	7.875	0	6.750	3	7	3	5	68	
		INCR. =							3	2.625	0	10.000						3	1.875	0	7.750	4	1	3	10		
		.75 in																									
61	5 K10	BARRIER	E	19	S				3	3.000	0	10.000						4	1	4	0				254		
61	5 K11	BARRIER	E	21	S				3	3.125	0	10.000						4	1	3	11				249		
12	5 K12	BARRIER	E	20					11	10.000								11	10	11	10				148		
6	5 K13	BARRIER	E	20			V	2	5	4.000								5	4	5	4				52		
		INCR. =							11	4.000								11	4	11	4						
		36. in																									
12	5 K14	BARRIER	E	20					11	1.000								11	1	11	1				139		
6	5 K15	BARRIER	E	20			V	2	4	7.000								4	7	4	7				47		
		INCR. =							10	7.000								10	7	10	7						
		36. in																									
48	5 K22	BARRIER	E	27	S				1	10.250	0	9.250	1	5.375	0	5.250	1	0.000	1	5.000	0	3.500	5	6	5	3	263
490	5 R1	BARRIER	E	26	S				3	3.000	0	5.125						3	3.000	0	7.000	6	10	6	9	3450	
490	5 R2	BARRIER	E	19	S				1	7.750	0	9.625						2	5	2	4				1192		
490	5 R3	BARRIER	E	27	S				0	9.625	1	3.250	0	4.750	1	0.000											

U.I.P., REDECK AND REHABILITATE EXISTING (52'-67'-67'-52') COMPOSITE WIDE FLANGE BEAM SPANS (SKEW 28°42'00" LA)

SEC/SUR 26 TWP 44N RGE 6E

Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.

Int. Bent No. 2 (S8)		Int. Bent No. 3 (S9)	
Span 1	Span 2	Span 2	Span 3
14'-0"	16'-0"	16'-0"	16'-0"
Int. Bent No. 4 (S8)		-	
Span 3	Span 4	-	-
16'-0"	14'-0"	-	-

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
H20-44 (1961)
HS20-44 (1983 and 2021)
15 lb/sf Future Wearing Surface
Earth - 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf

Design Unit Stresses:
Class B-1 Concrete (Barrier) $f'c = 4,000$ psi
Class B-2 Concrete (End Bents, Superstructure, except Barrier) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:
The top, sides and bottom of the top flanges of existing steel stringers shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Longitudinal dimensions are based on original plans.

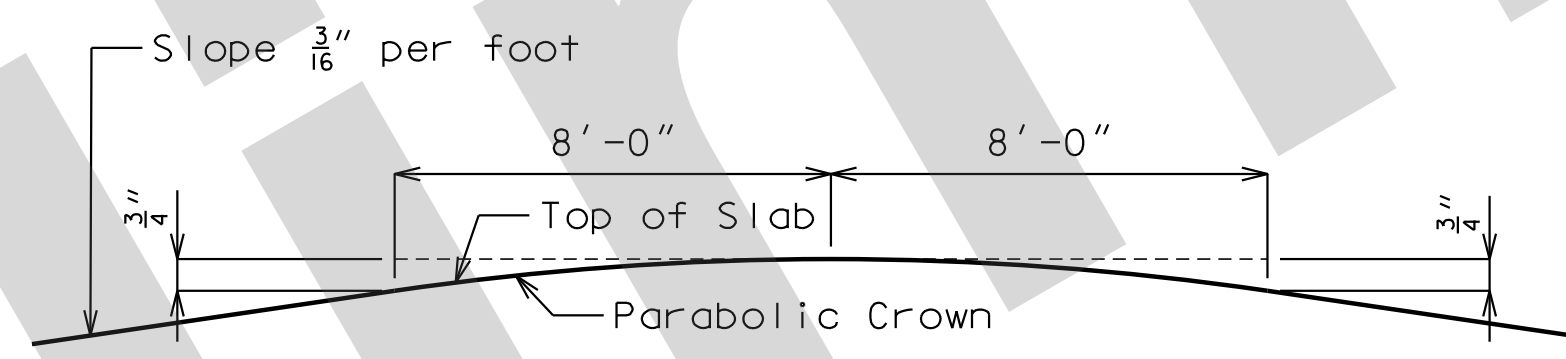
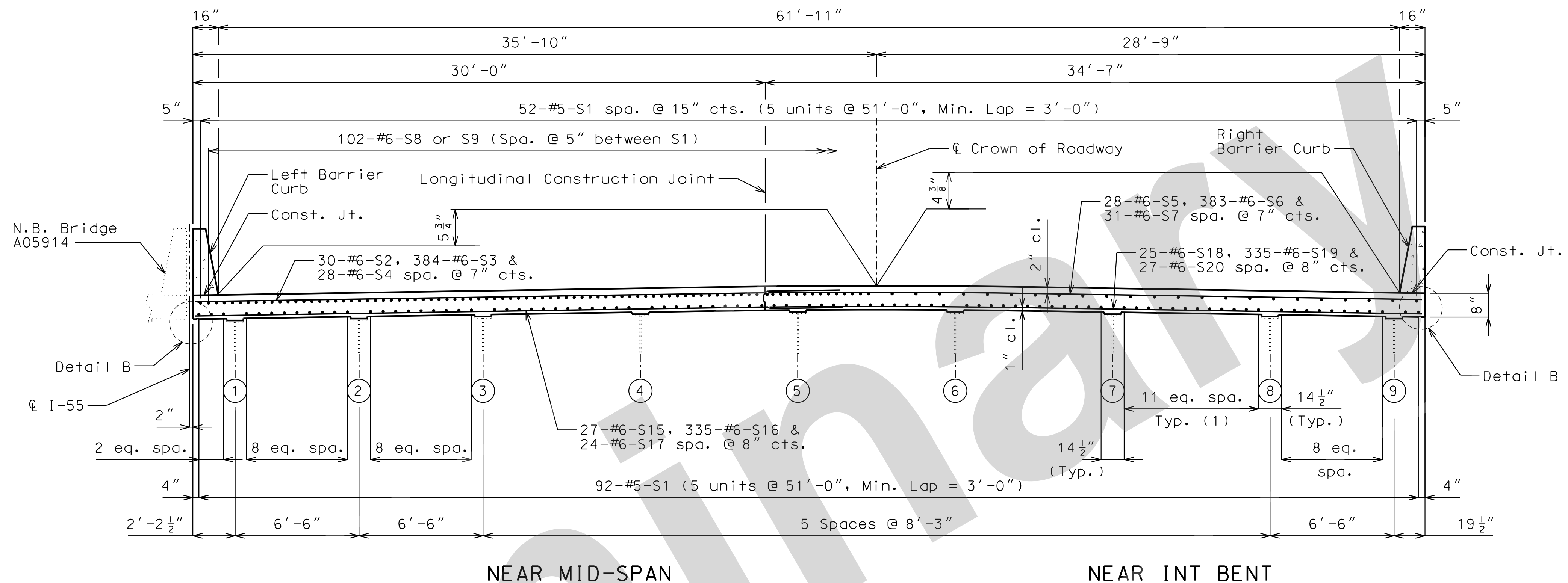
Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

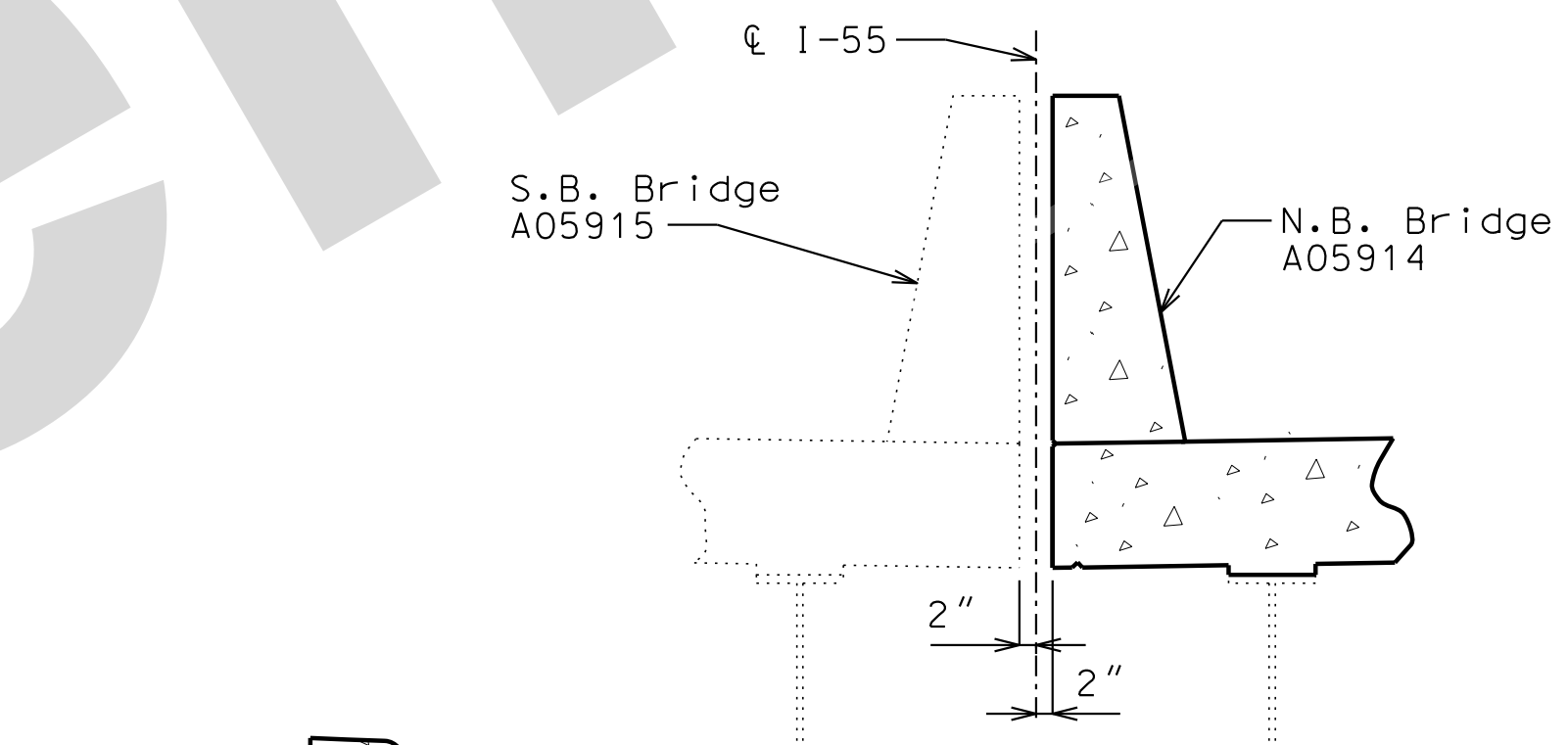
Traffic Handling:

Structure to be closed during construction. Traffic to be maintained on northbound bridge during construction. See roadway plans for traffic control.

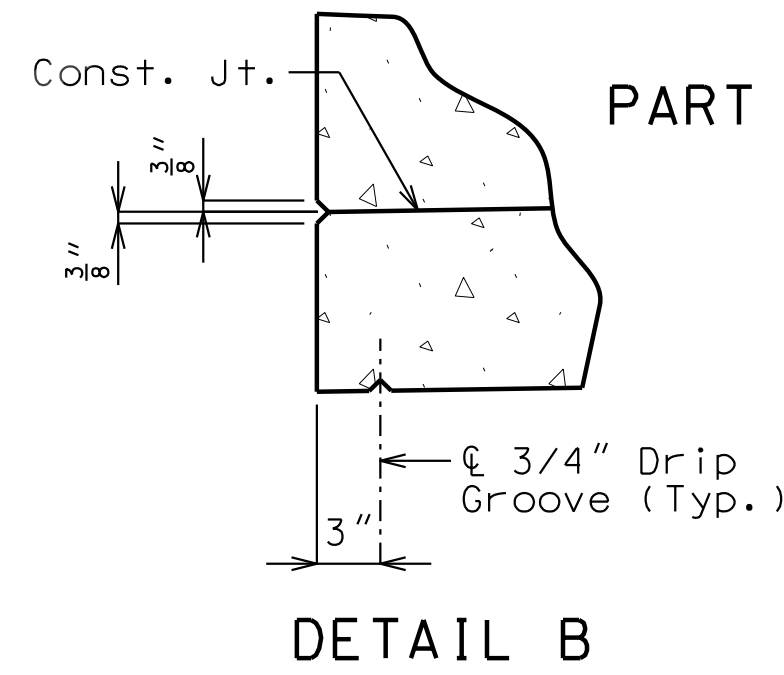
Detailed June 2021
Checked June 2021



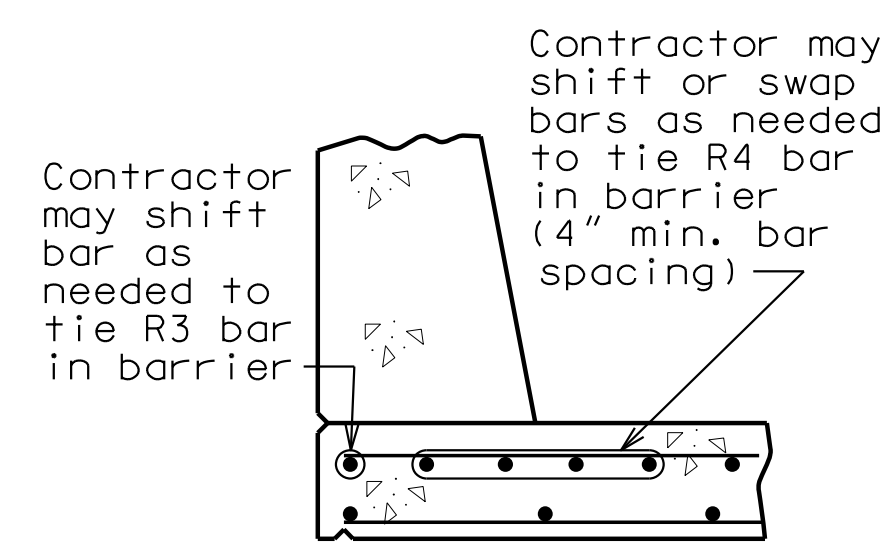
PARABOLIC CROWN DETAIL



PART SECTION THRU MEDIAN



DETAIL B



OPTIONAL SHIFTING TOP BARS AT BARRIER

Item	sq. foot	Total
Removal of Existing Bridge Deck	15,675	15,675
Bridge Approach Slab (Major)	287	287
Slab on Steel	1,741	1,741
Class B-2 Concrete	2.7	2.7
Type D Barrier	540	540
Substructure Repair (Unformed)	265	265
Conduit System on Structure	1	1
Reinforcing Steel (Epoxy Coated)	140	140
Protective Coating Concrete Bents and Piers (Epoxy)	1	1
Slab Drain	20	20
Non-Destructive Testing	363	363

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Item	cu. yard	Total
Class B-2 Concrete	405	405
Reinforcing Steel (Epoxy Coated)	136,800	136,800

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

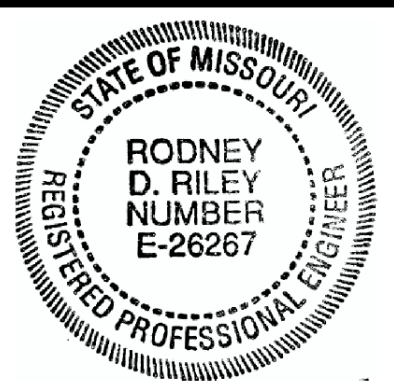
Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

**REPAIRS TO BRIDGE:
ROUTE I-55 SB OVER GREEN PARK ROAD**

ROUTE I-55 FROM I-44 TO I-270
ABOUT 9 MILES SOUTH OF I-44
STATION 2+09.01± (MATCH EXISTING)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

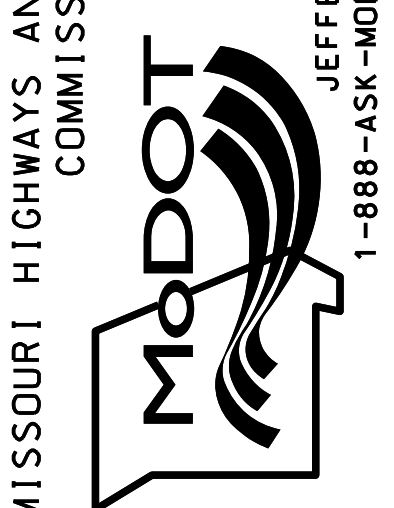
BRIDGE NO. A05915

DESCRIPTION

DATE	DESCRIPTION

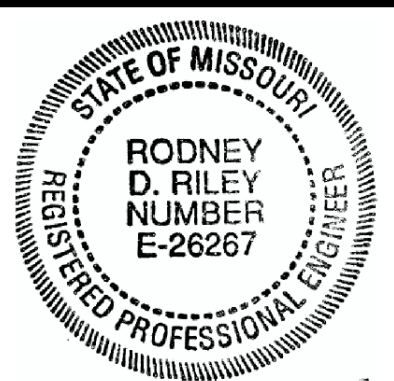
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)



JACOBS ENGINEERING GROUP, INC.
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

REV. 18:11 10-AUG-2021



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05915

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

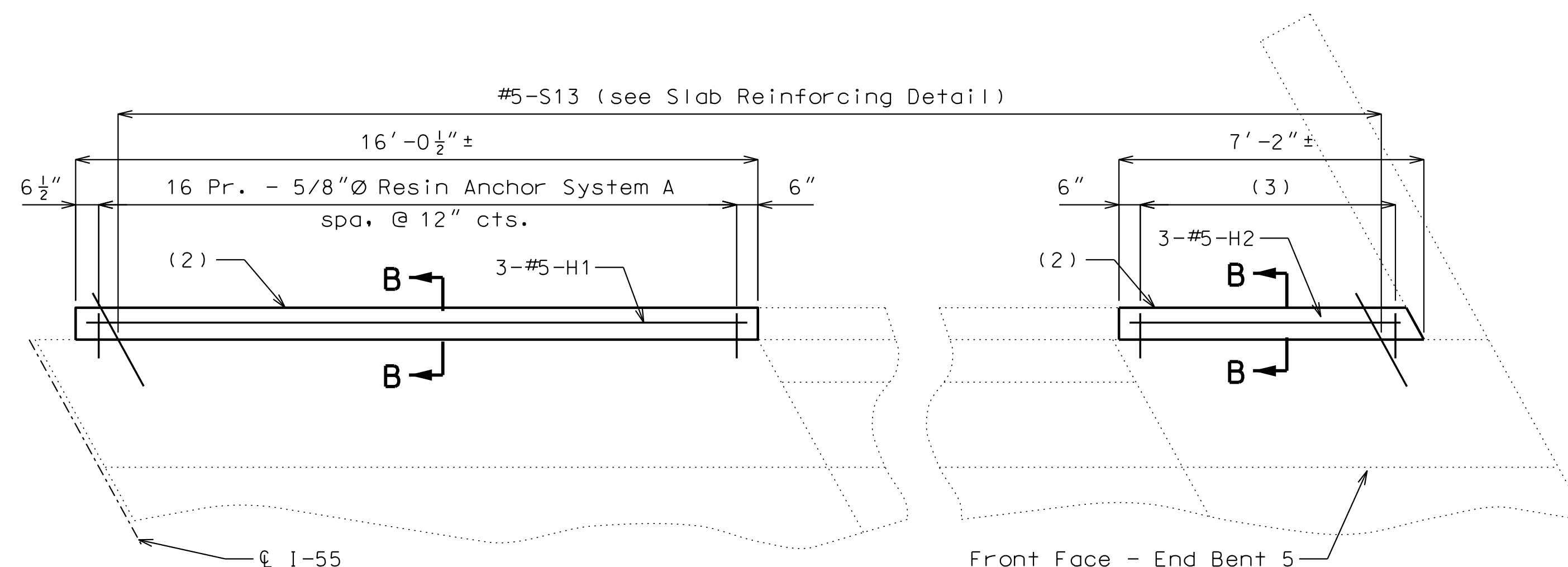
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

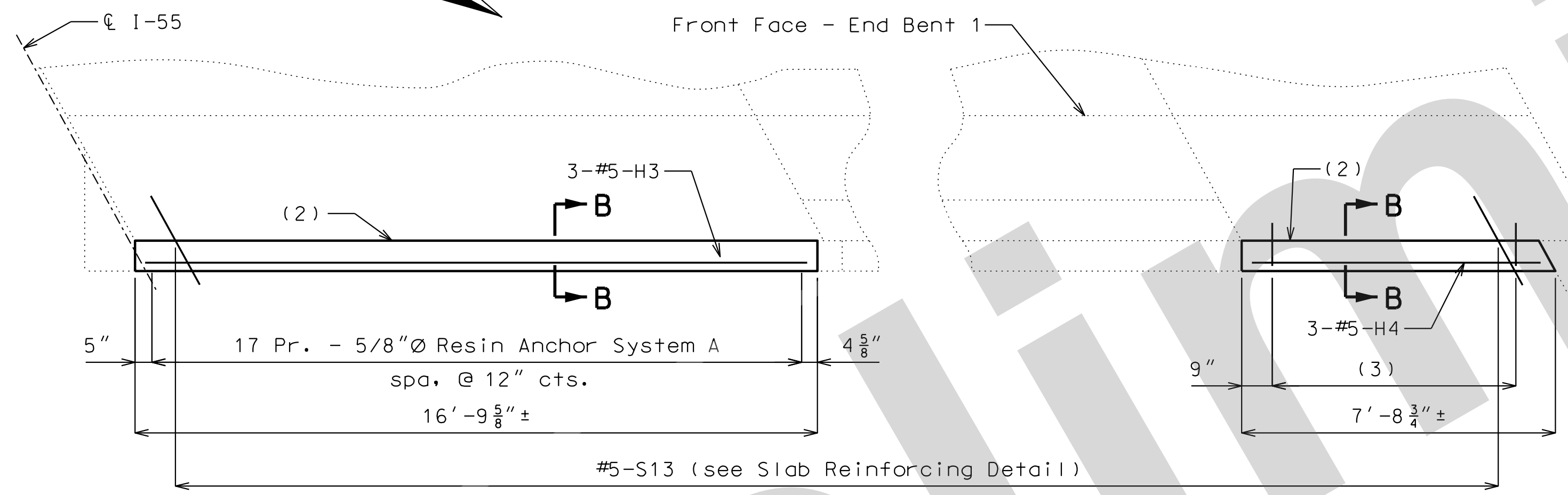
ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

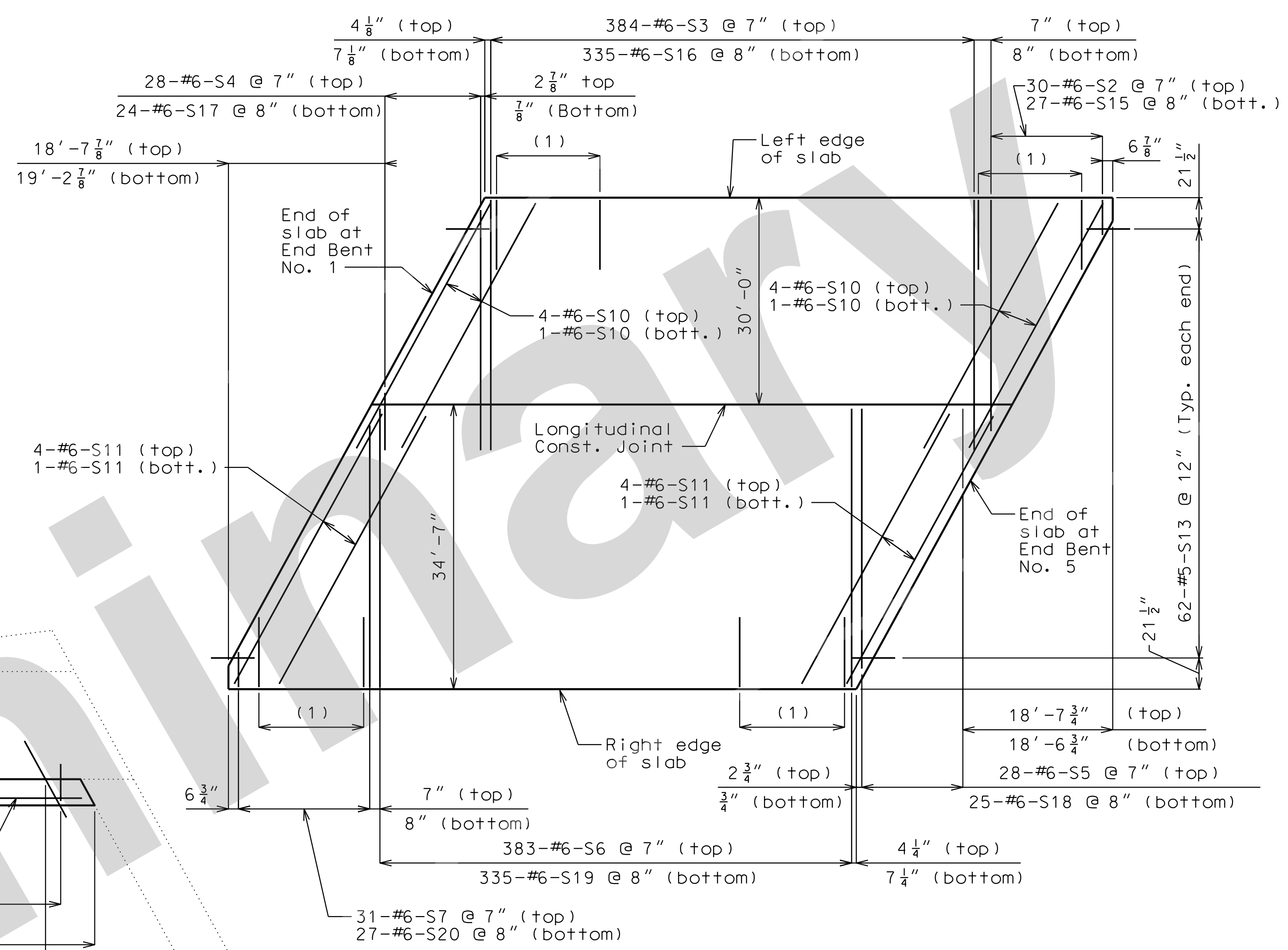
REV.



PART PLAN - END BENT 5
(New slab concrete not shown for clarity.)

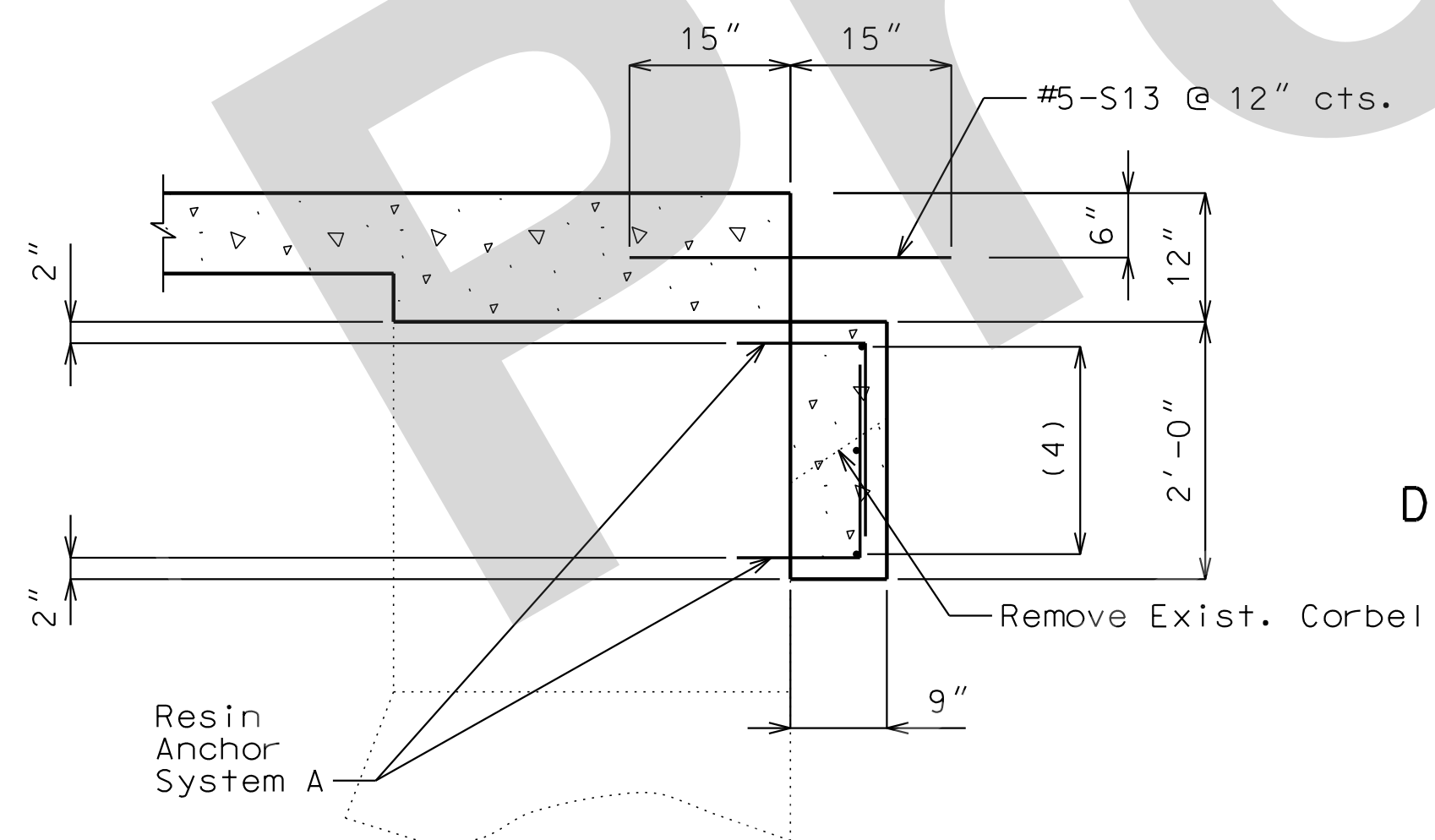


PART PLAN - END BENT 1
(New slab concrete not shown for clarity.)

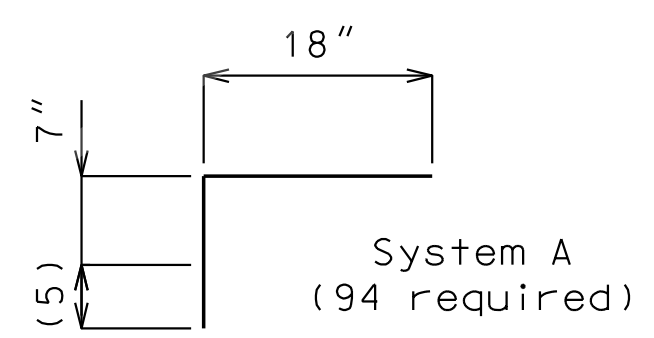


SLAB REINFORCING DETAIL
Schematic, not to scale
Longitudinal Reinforcement not shown, see Sheet No. 1.

- (1) 12-#6-S12 x 4'-0" @ 14" spacing Bundle with top S1 bars.
- (2) Remove existing 9" corbel. Replace as shown, see Section B-B.
- (3) 7 Pr. - 5/8" Ø Resin Anchor System A spa. @ 12" cts.



SECTION B-B



DETAILS OF RESIN ANCHOR SYSTEM

- (4) 3-#5-H1, H2, H3 or H4, equally spaced
- (5) Manufacturer's recommended embedment length (5" min.)

General Notes

Concrete in the approach slab corbel shall be Class B-2.

The costs for the concrete to repair the approach slab corbel, will be considered completely covered by the contract unit price for Class B-2 Concrete.

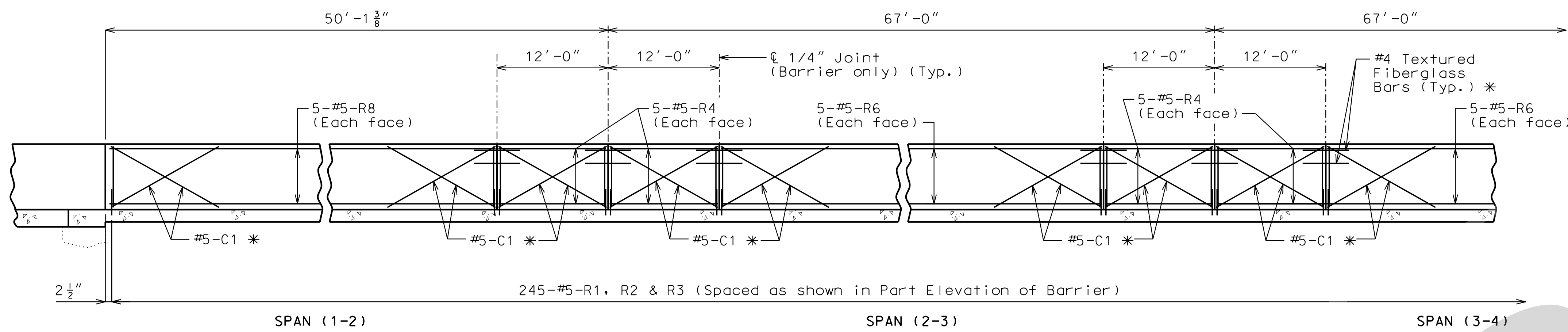
The cost for the reinforcement to repair the approach slab corbel will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

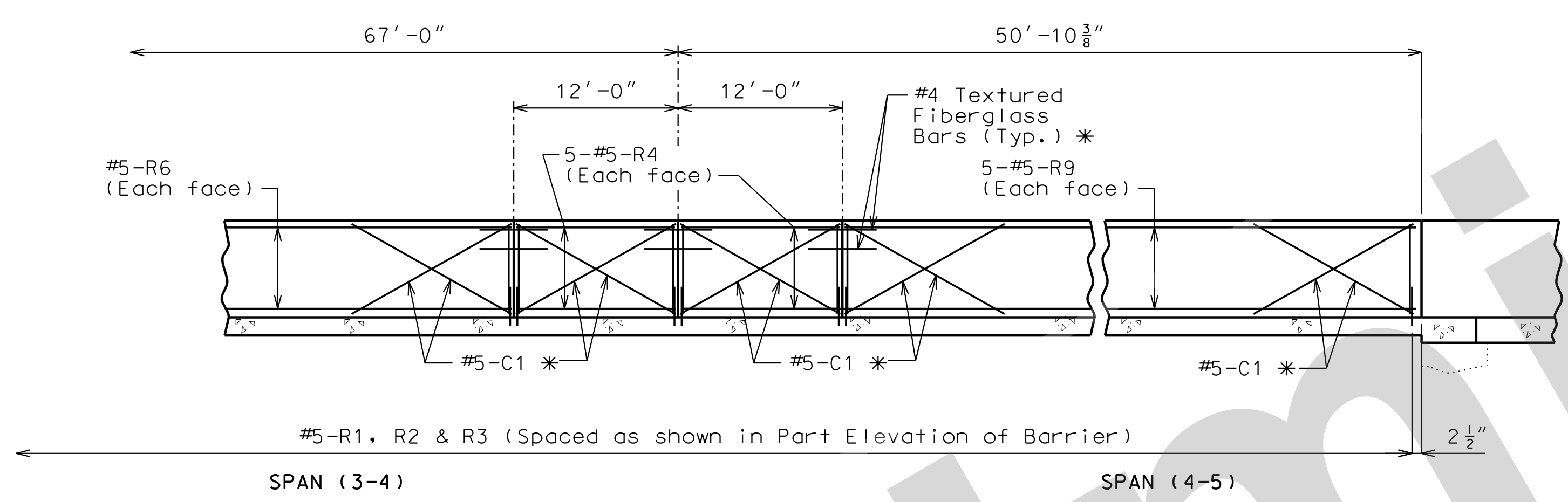
The minimum embedment depth in concrete with a f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

Cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.



General Notes:
Work this sheet with Sheet No. 5.



DEVELOPED SECTION OF LEFT BARRIER CURB



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
DATE PREPARED 10-AUG-2021
ROUTE I-55 STATE MO
DISTRICT BR SHEET NO. 6
COUNTY ST. LOUIS
JOB NO. J613187
CONTRACT ID.
PROJECT NO.
BRIDGE NO. A05915

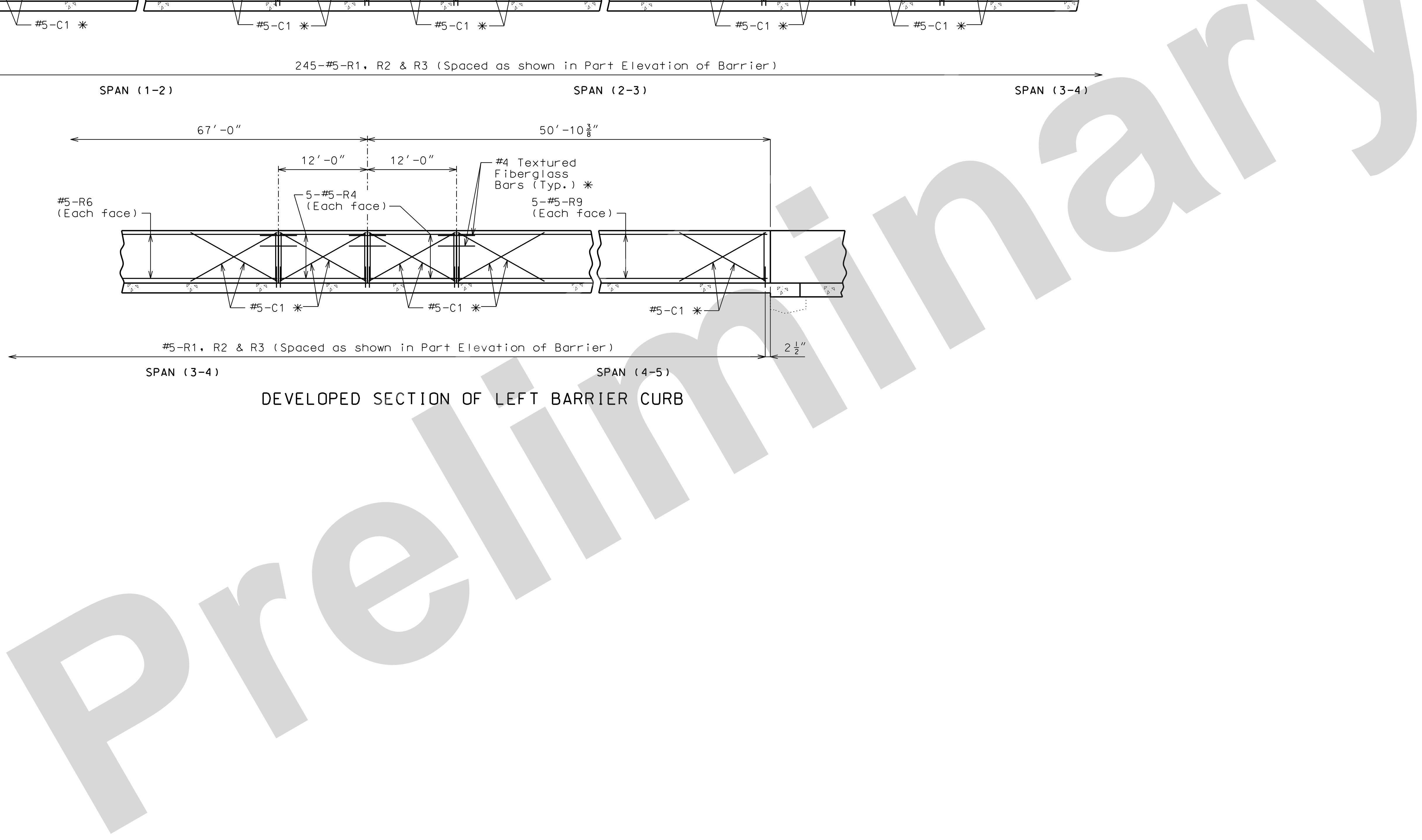
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

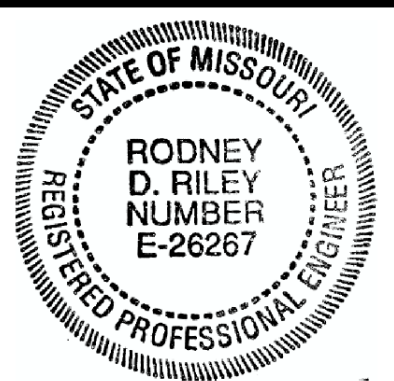
Jacobs
JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

TYPE D BARRIER - LEFT CURB

Note: This drawing is not to scale. Follow dimensions.



IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05915

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

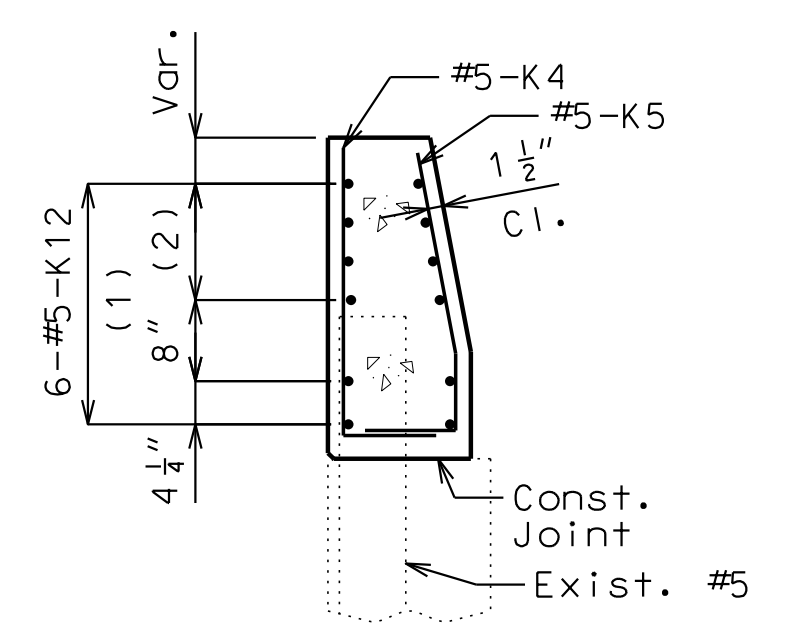
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

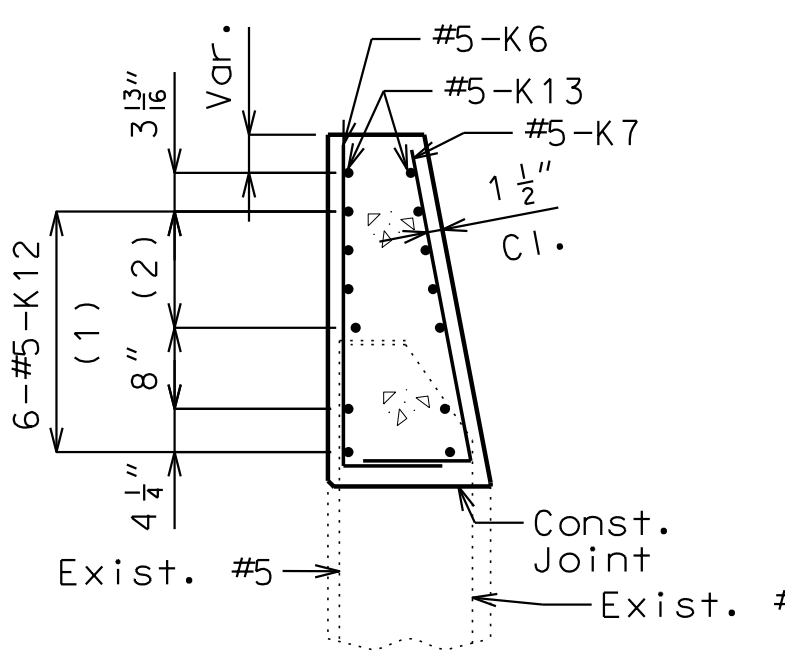
JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

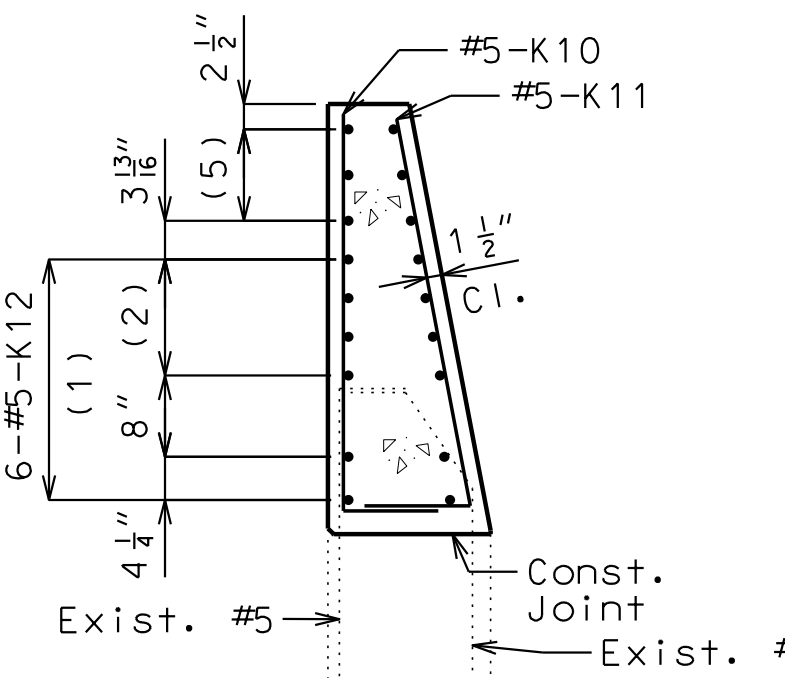
REV.



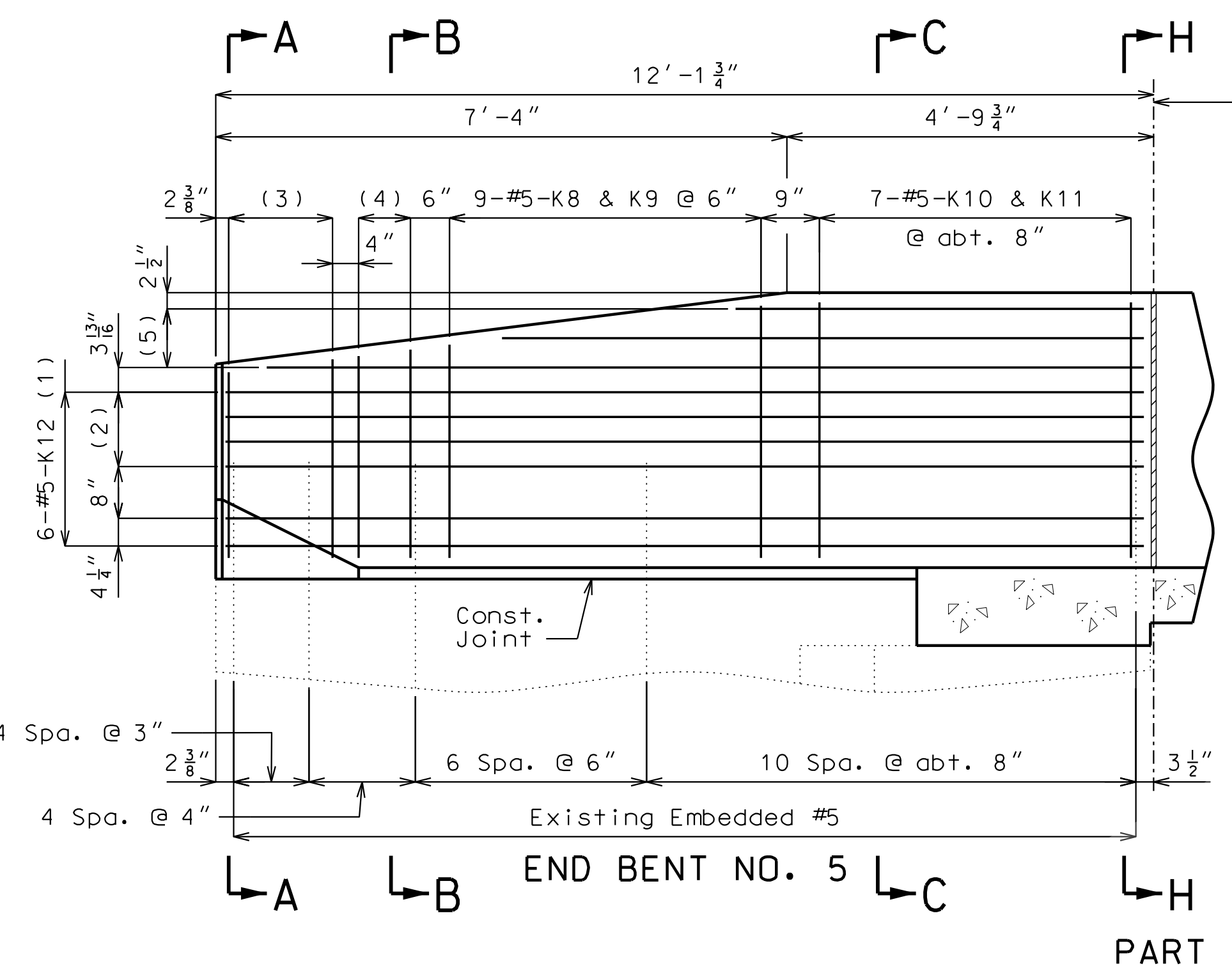
SECTION A-A



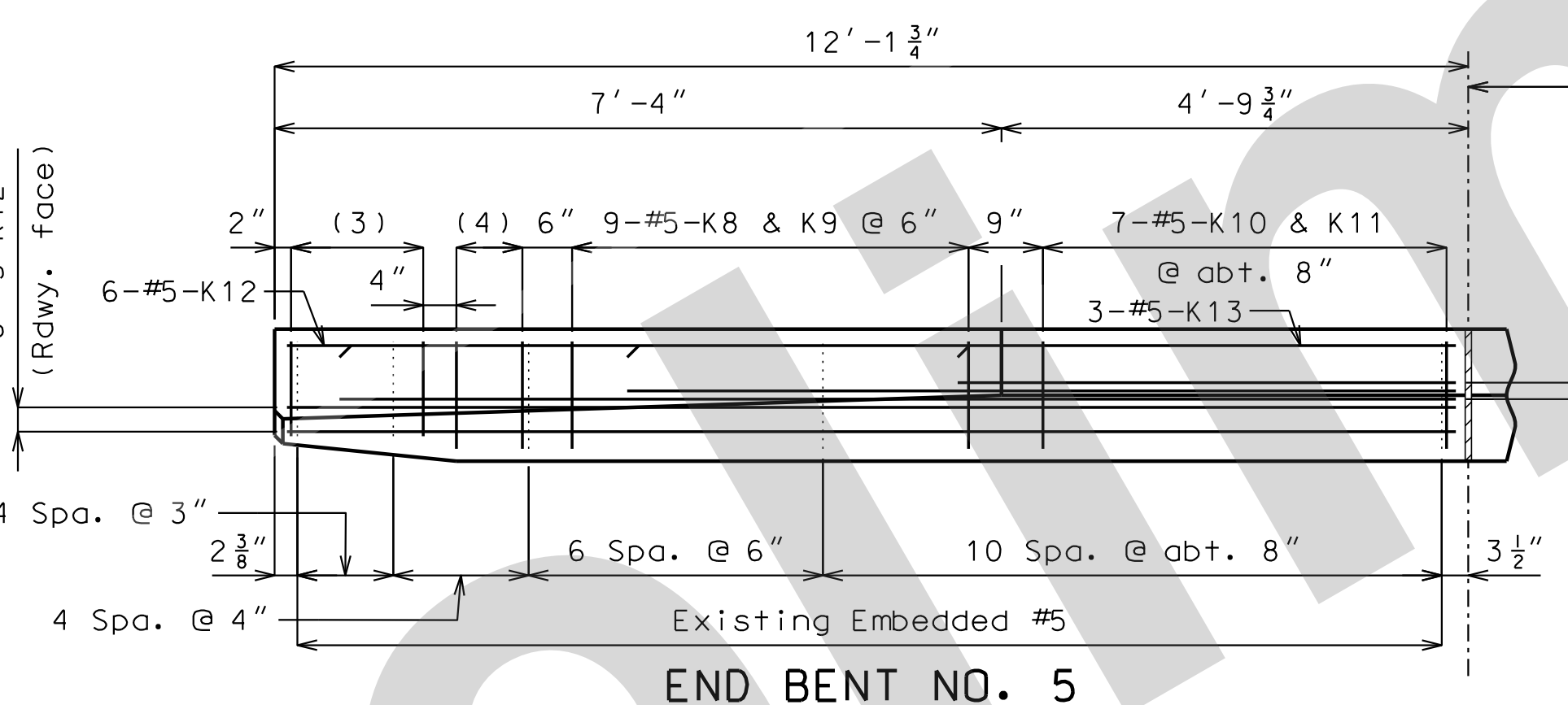
SECTION B-B



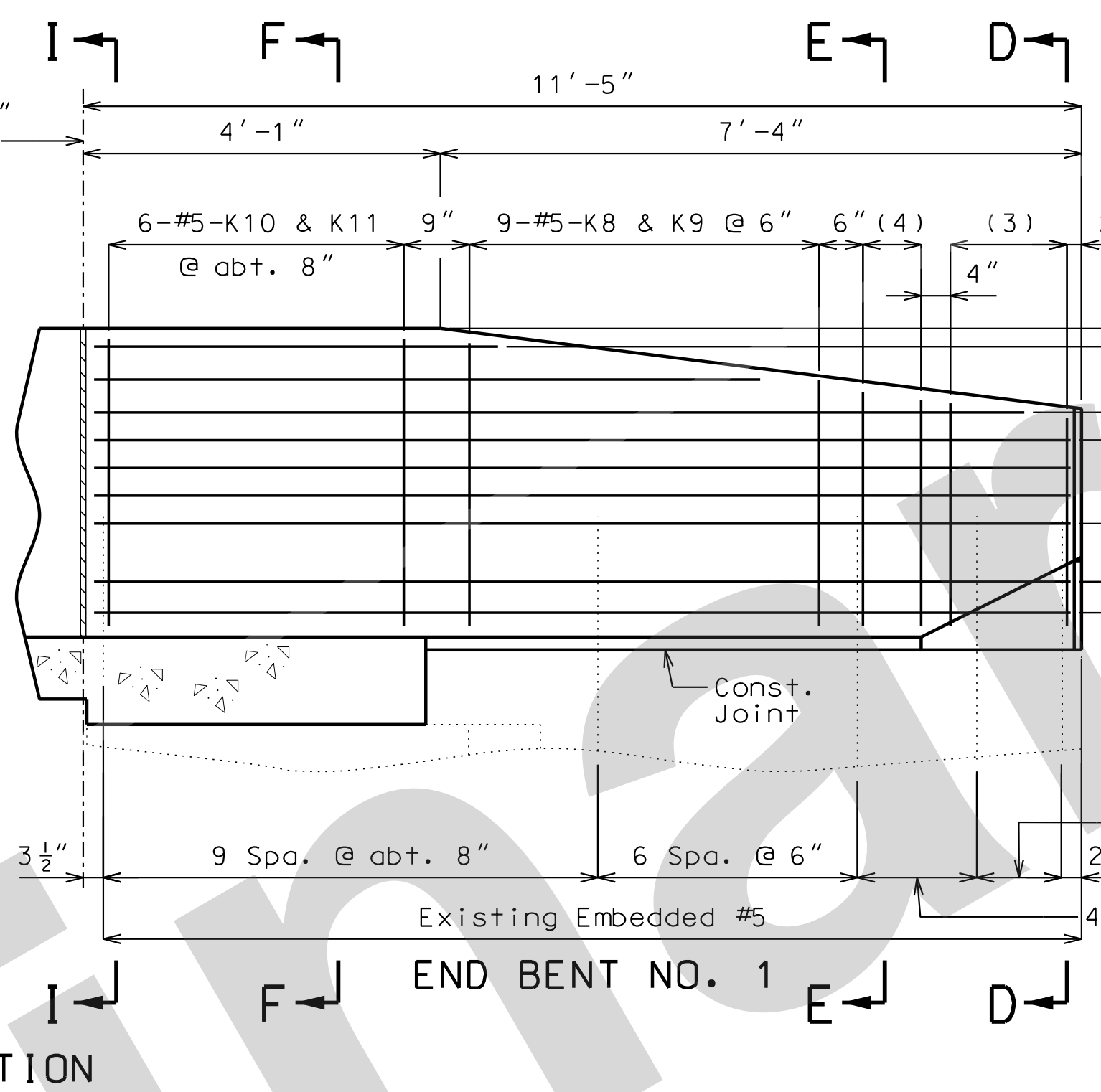
SECTION C-C



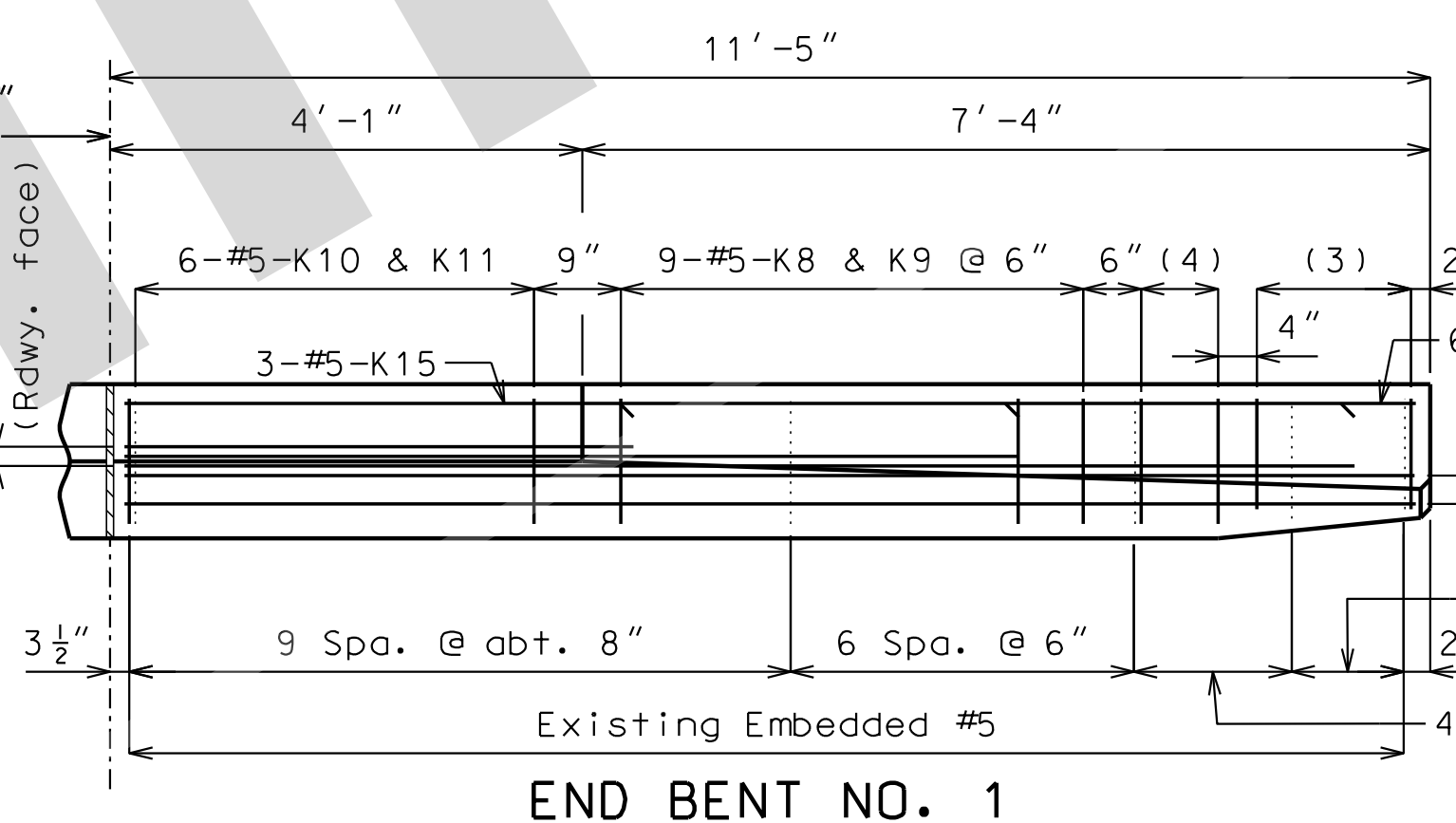
PART ELEVATION



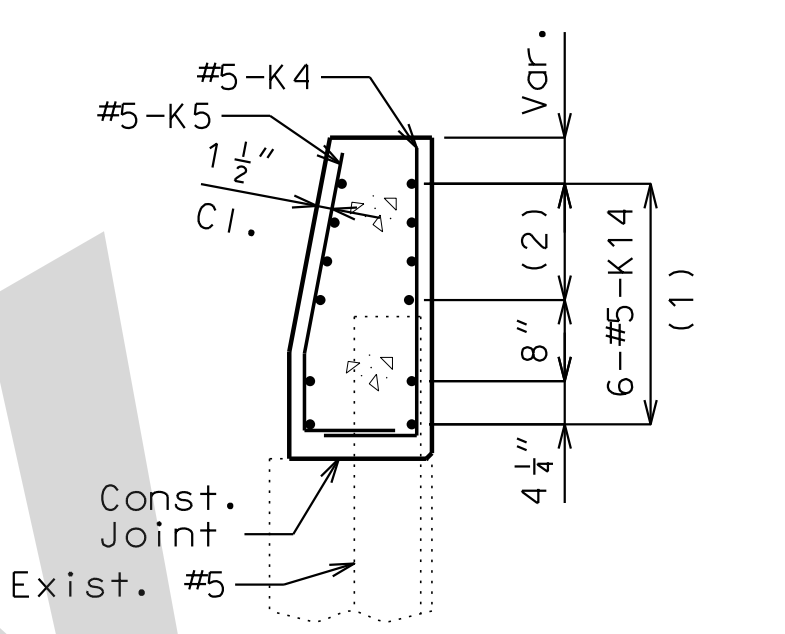
PART PLAN



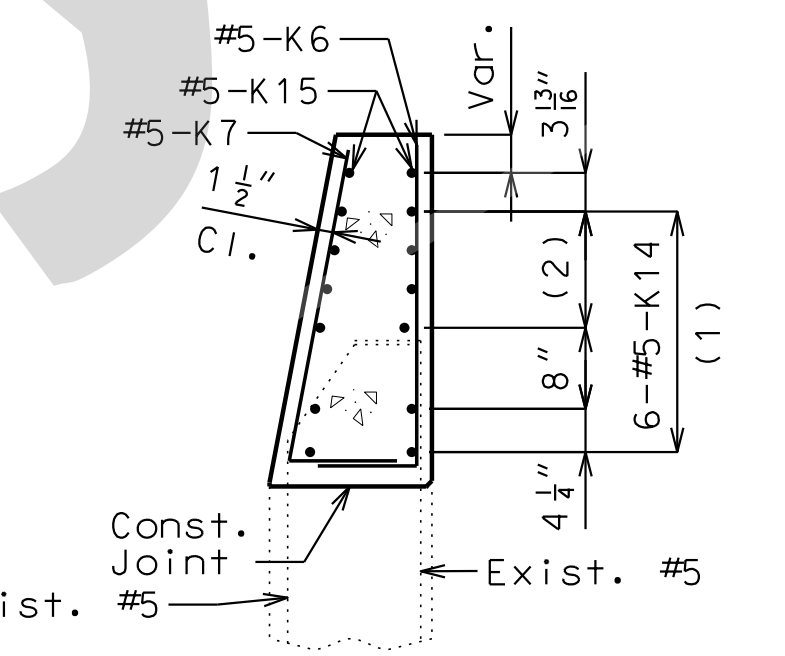
PART ELEVATION



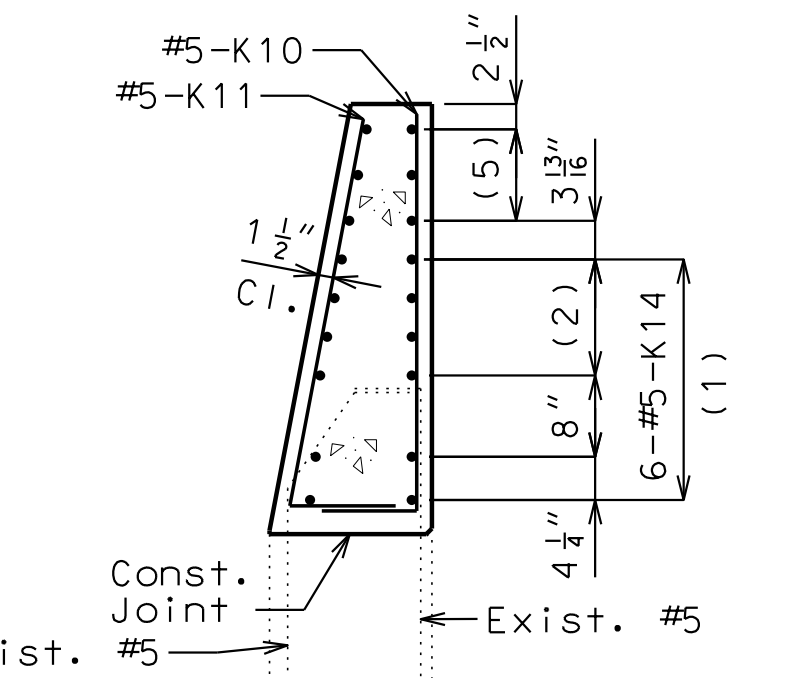
PART PLAN



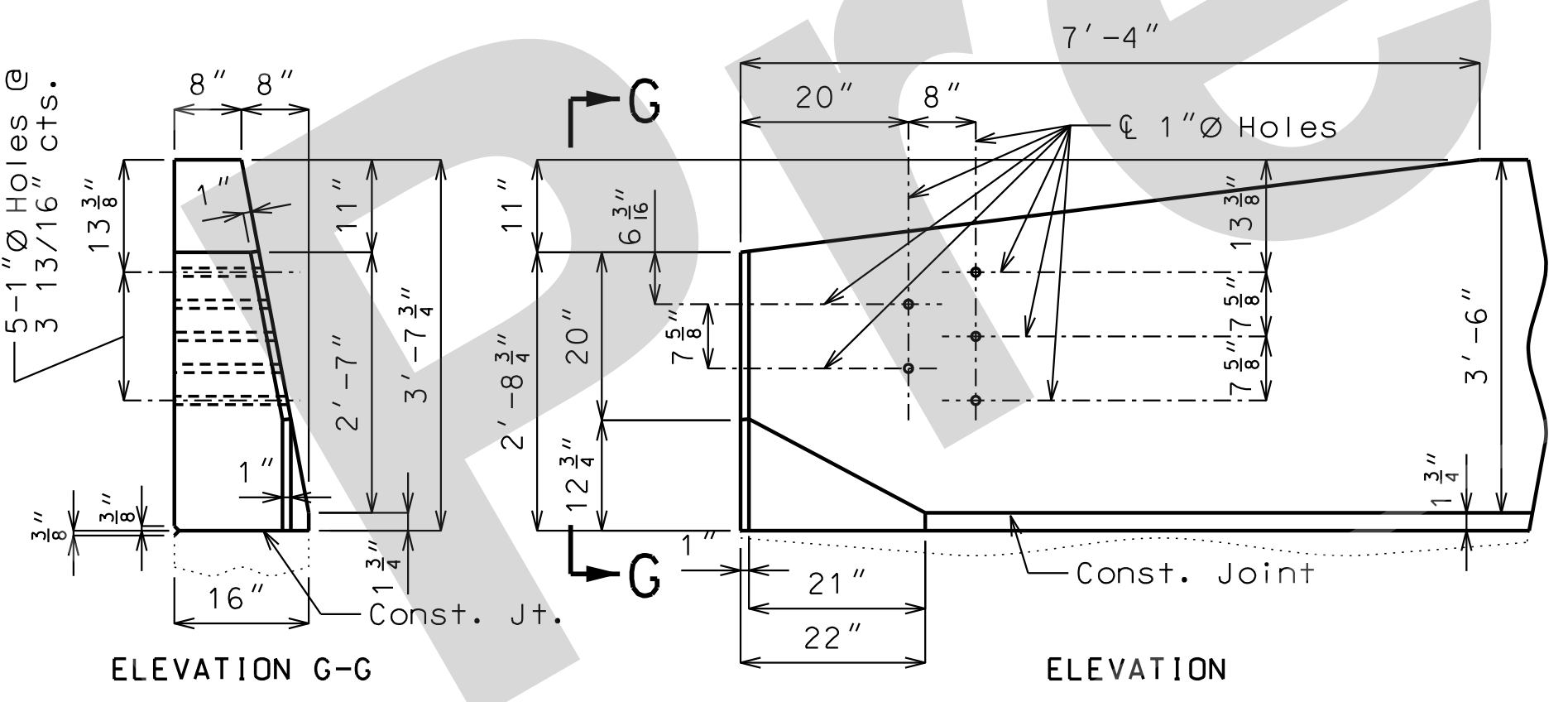
SECTION D-D



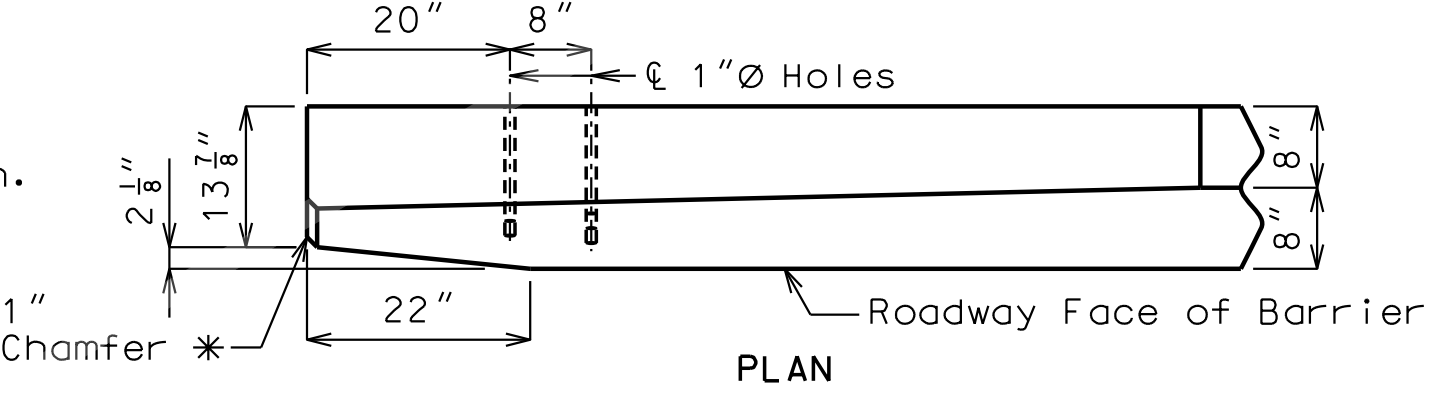
SECTION E-E



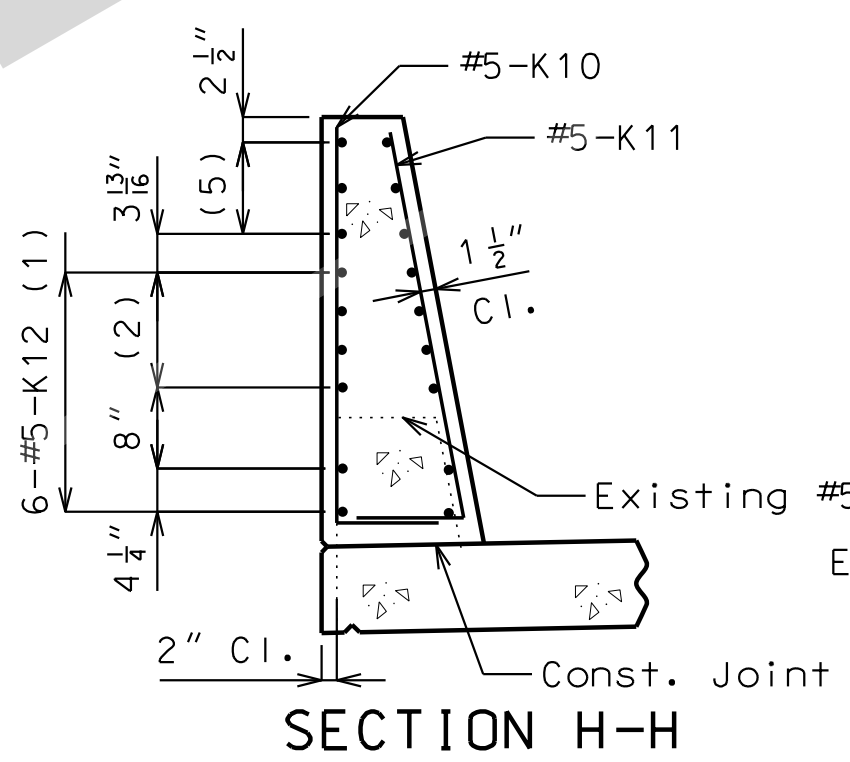
SECTION F-F



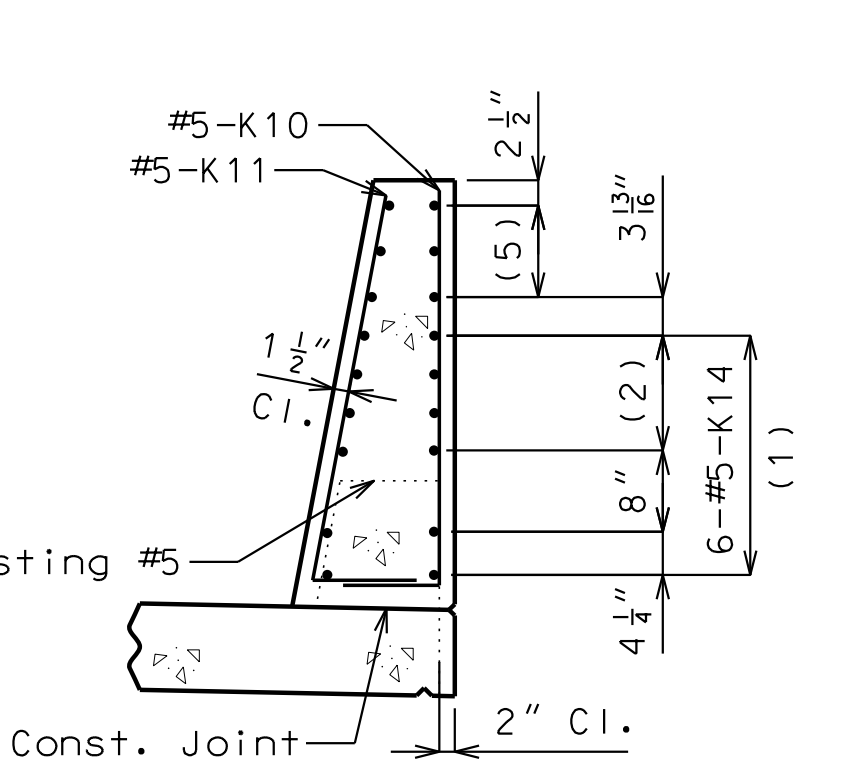
ELEVATION G-G



DETAILS OF GUARD RAIL ATTACHMENT

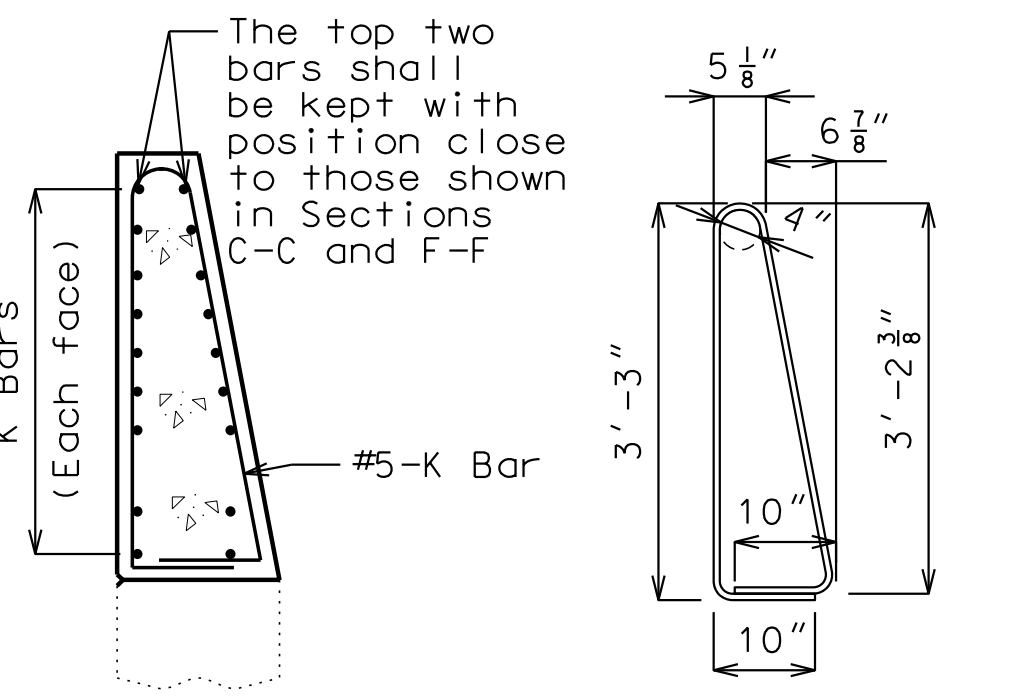


SECTION H-H



SECTION I-I

- (1) Spaced as shown, each face
- (2) 3 spaces @ 3 13/16"
- (3) 5-#5-K4 & K5 @ 4" cts.
- (4) 3-#5-K6 & K7 @ 4" cts.
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

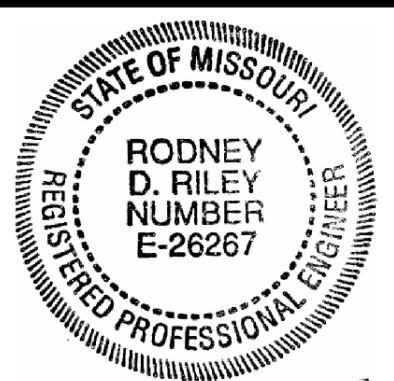
(Other K bars not shown for clarity)
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 8

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05915

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

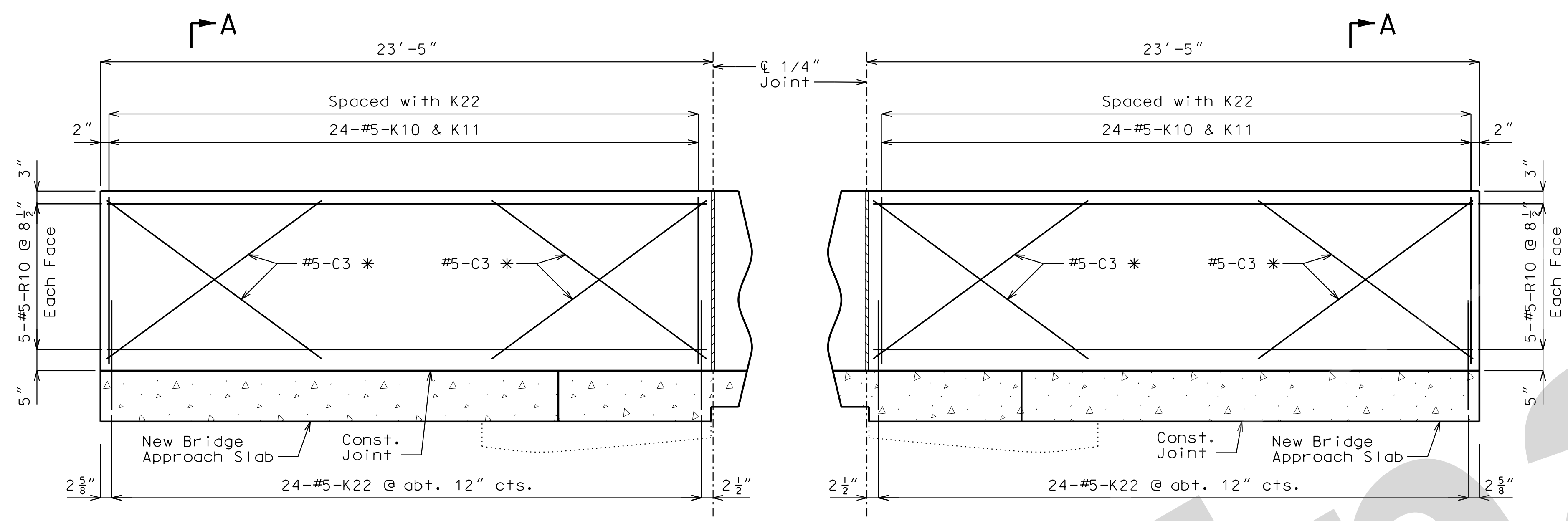
105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

REV.



General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

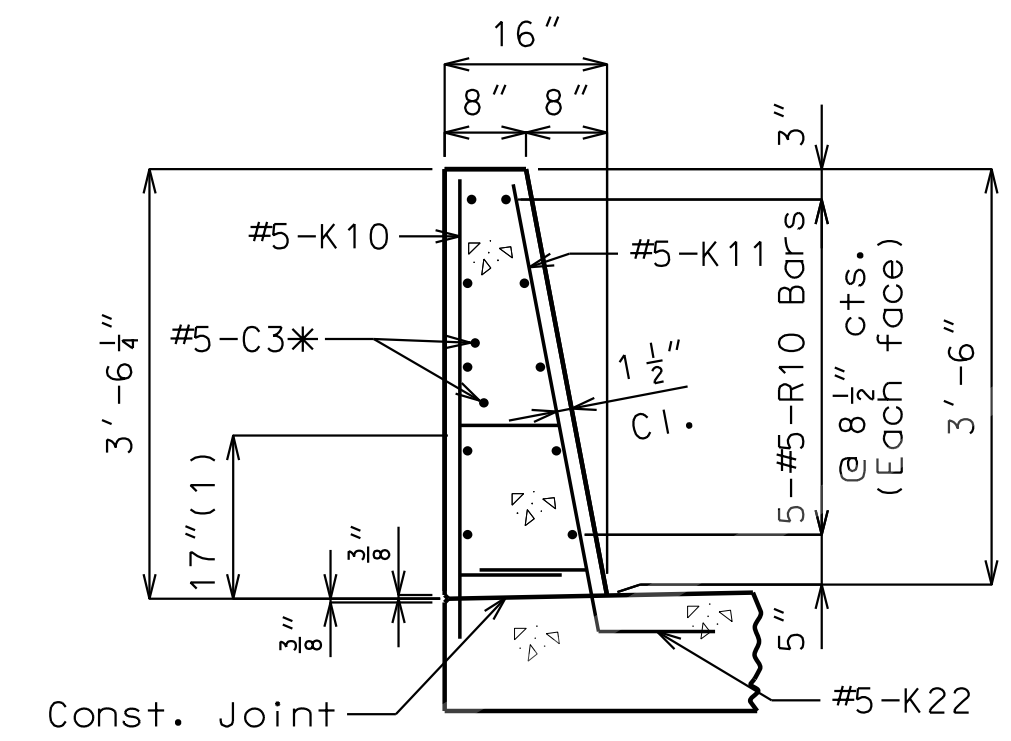
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

SECTION NEAR END BENT NO. 1

SECTION NEAR END BENT NO. 5

SECTION



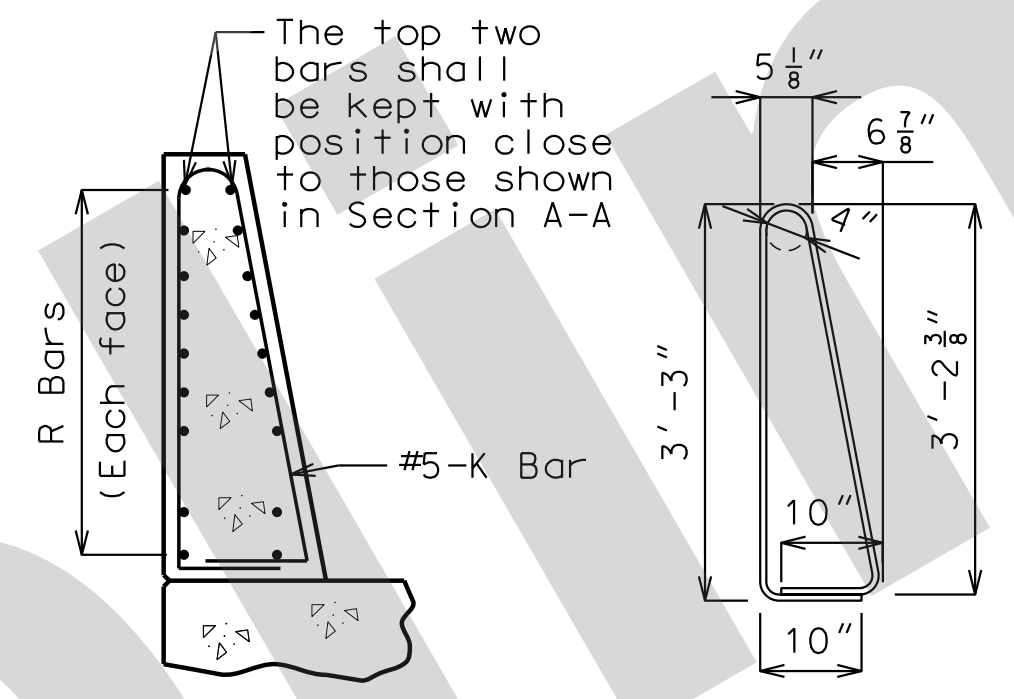
SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.

The cross-sectional area above the slab is 3.52 square feet.

(1) To top of bar

* Slip-formed option only

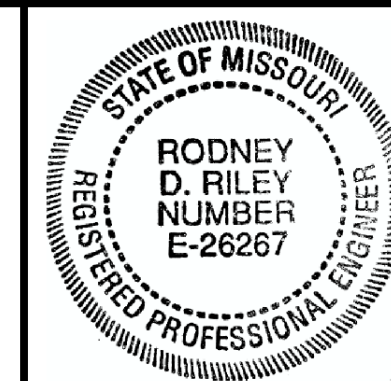


K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

TYPE D BARRIER AT END BENTS - LEFT CURB



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 10-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05915

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

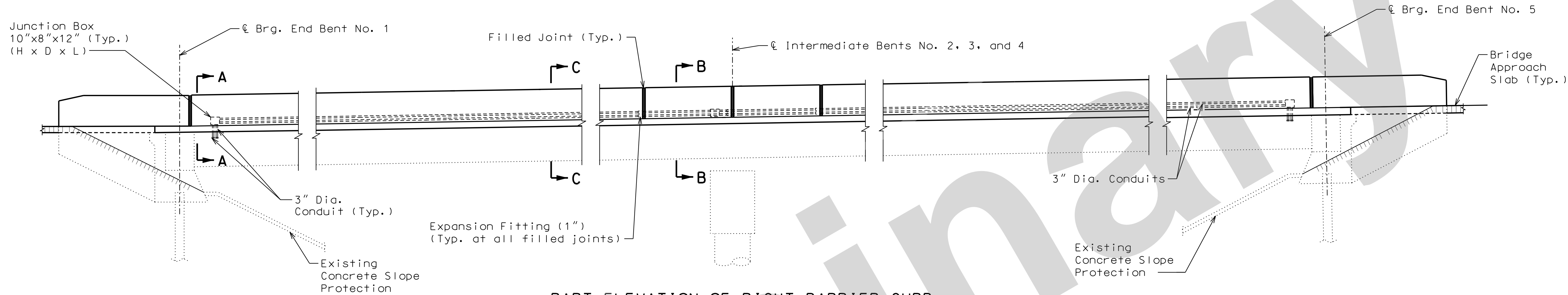
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS CONSULTING GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



PART ELEVATION OF RIGHT BARRIER CURB SHOWING LOCATION OF CONDUIT

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

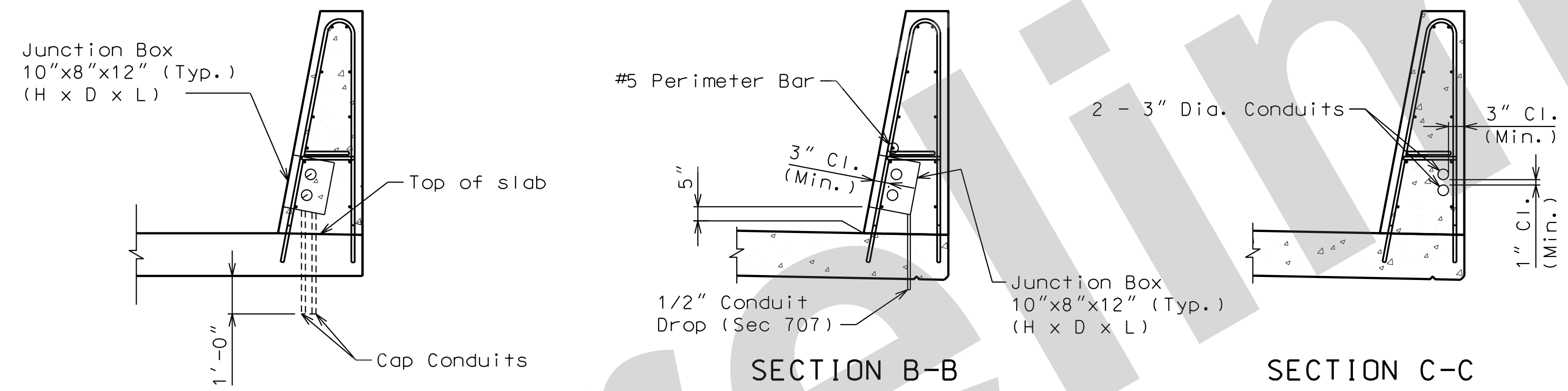
Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

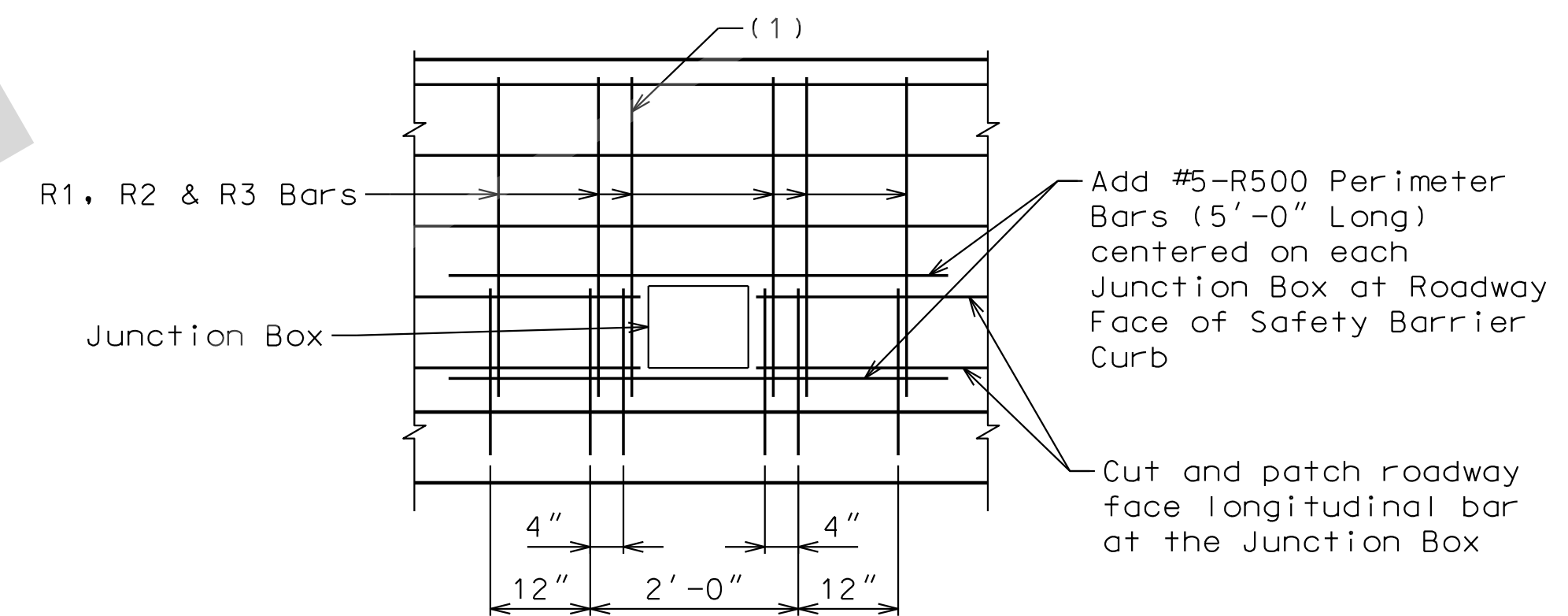
Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.



(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Barrier Curb and shift bars to clear Junction Boxes.



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

DETAILS OF CONDUIT SYSTEM

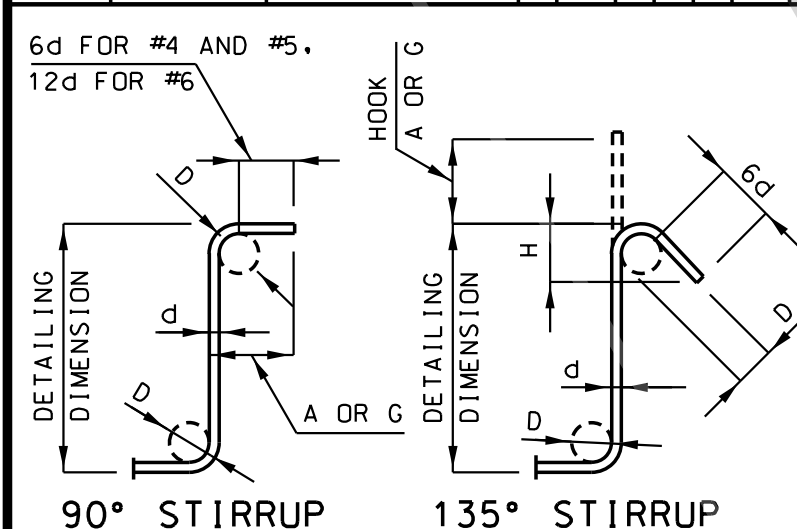
Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 10 of 12

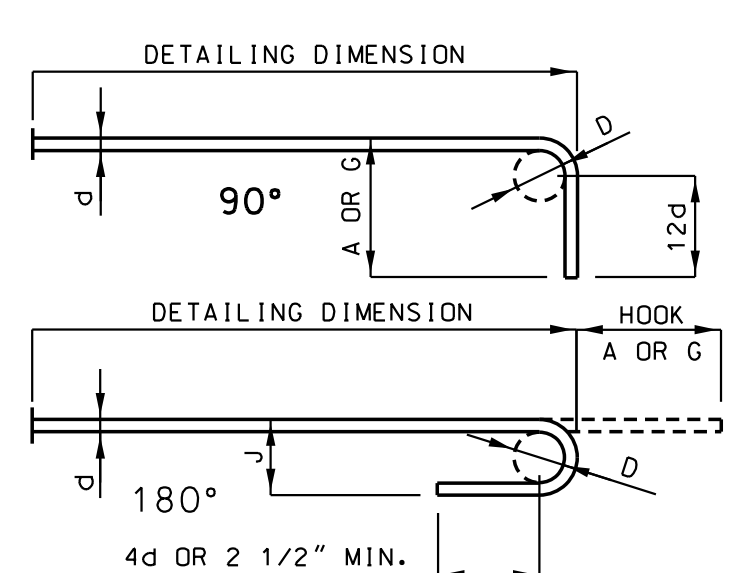
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS										NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B	C	D	E	F	H	K	FT.	IN.	FT.				IN.
SUBSTRUCTURE																						
END BENTS																						
3	5 H1	EB5 CORBEL	E	20	X				15	8.000								15	8	15	8	49
3	5 H2	EB5 CORBEL	E	20	X				6	5.000								6	5	6	5	20
3	5 H3	EB1 CORBEL	E	20	X				16	5.000								16	5	16	5	51
3	5 H4	EB1 CORBEL	E	20	X				6	11.000								6	11	6	11	22
SUPERSTRUCTURE																						
SLAB																						
720	5 S1	SLAB	E	20					51	0.000								51	0	51	0	38299
30	6 S2	SLAB	E	20		V	1		2	0.000								2	0	2	0	785
		INCR. =							32	10.000								32	10	32	10	
		12.75 in																				
384	6 S3	SLAB	E	20					33	11.000								33	11	33	11	19562
28	6 S4	SLAB	E	20		V	1		4	7.000								4	7	4	7	797
		INCR. =							33	4.000								33	4	33	4	
		12.75 in																				
28	6 S5	SLAB	E	20		V	1		5	0.000								5	0	5	0	815
		INCR. =							33	9.000								33	9	33	9	
		12.75 in																				
383	6 S6	SLAB	E	20					34	4.000								34	4	34	4	19751
31	6 S7	SLAB	E	20		V	1		2	0.000								2	0	2	0	836
		INCR. =							33	11.000								33	11	33	11	
		12.75 in																				
204	6 S8	SLAB	E	20					30	0.000								30	0	30	0	9192
102	6 S9	SLAB	E	20					32	0.000								32	0	32	0	4903
10	6 S10	SLAB	E	20					39	2.000								39	2	39	2	588
10	6 S11	SLAB	E	20					38	0.000								38	0	38	0	571
48	6 S12	SLAB	E	20					4	0.000								4	0	4	0	288
124	5 S13	SLAB	E	20					2	6.000								2	6	2	6	323
2151	4 S14	SLAB	E	10	S				0	6.000	0	5.000	0	6.500	0	6.000		2	5	2	0	2874
27	6 S15	SLAB	E	20		V	1		2	0.000								2	0	2	0	711
		INCR. =							33	1.33	1							33	1	33	1	
		14.375 in																				
335	6 S16	SLAB	E	20					33	11.000								33	11	33	11	17066
24	6 S17	SLAB	E	20		V	1		5	8.000								5	8	5	8	709
		INCR. =							33	8.000								33	8	33	8	
		14.625 in																				
25	6 S18	SLAB	E	20		V	1		4	10.000								4	10	4	10	731
		INCR. =							34	1.000								34	1	34	1	
		14.625 in																				
335	6 S19	SLAB	E	20					34	4.000								34	4	34	4	17276
27	6 S20	SLAB	E	20		V	1		2	0.000								2	0	2	0	723
		INCR. =							33	7.500								33	8	33	8	
		14.625 in																				



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		HOOK A OR G	HOOK A OR G	HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	A OR G
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

NOTE:
 ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 E = EPOXY COATED REINFORCEMENT.
 S = STIRRUP.
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
 FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS										NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT						
									B	C	D	E	F	H	K	FT.	IN.	FT.				IN.	FT.	IN.	FT.	IN.	FT.
TYPE D BARRIER CURB																											
10	5 K4	BARRIER	E	19	S	V	2		2	4.500								2	5	2	3	24					
		INCR. =							2	6.250								2	6	2	5						
		.5 in																									
10	5 K5	BARRIER	E	14	S	V	2		0	8.375	0	9.625	1	6.500			0	4.000	1	6.000	3	1	2	11	31		
		INCR. =							0	8.375	0	9.625	1	8.500			0	4.500	1	8.000	3	3	3	1			
		.5 in																									
6	5 K6	BARRIER	E	19	S	V	2		2	6.750	0	10.000						3	5	3	4			21			
		INCR. =							2	7.750	0	10.000						3	6	3	4						
		.5 in																									
6	5 K7	BARRIER	E	21	S	V	2		2	6.750	0	10.000						2	6.125	0	6.250	3	5	3	3	21	
		INCR. =							2	7.750	0	10.000						2	7.125	0	6.500	3	6	3	4		
		.5 in																									
18	5 K8	BARRIER	E	19	S	V	2		2	8.500	0	10.000						3	7	3	5				69		
		INCR. =							3	2.500	0	10.000						4	1	3	11						
		.75 in																									
18	5 K9	BARRIER	E	21	S	V	2		2	8.625	0	10.000						2	7.875	0	6.750	3	7	3	5	68	
		INCR. =							3	2.625	0	10.000						3	1.875	0	7.750	4	1	3	10		
		.75 in																									
61	5 K10	BARRIER	E	19	S				3	3.000	0	10.000						4	1	4	0				254		
61	5 K11	BARRIER	E	21	S				3	3.125	0	10.000						3	2.375	0	7.875	4	1	3	11	249	
12	5 K12	BARRIER	E	20					11	10.000								11	10	11	10				148		
6	5 K13	BARRIER	E	20		V	2		5	4.000								5	4	5	4				52		
		INCR. =							11	4.000								11	4	11	4						
		36. in																									
12	5 K14	BARRIER	E	20					11	1.000								11	1	11	1				139		
6	5 K15	BARRIER	E	20		V	2		4	7.000								4	7	4	7				47		
		INCR. =							10	7.000								10	7	10	7						
		36. in																									
48	5 K22	BARRIER	E	27	S				1	10.250	0	9.250	1	5.375	0	5.250	1	0.000	1	5.000	0	3.500	5	6	5	3	263
494	5 R1	BARRIER	E	26	S				3	3.000	0	5.125						3	3.000	0	7.000	6	10	6	9	3450	
494	5 R2	BARRIER	E	19	S				1	7.750	0	9.625						2	5	2	4				1192		
494	5 R3	BARRIER	E	27	S				0	9.625	1	3.250	0	4.75													

U.I.P. AND REHABILITATE EXISTING (37'-60'-60'-37') CONTINUOUS CONCRETE VOIDED SLAB SPANS (SKEW 22°05'00" R.A.)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05323

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

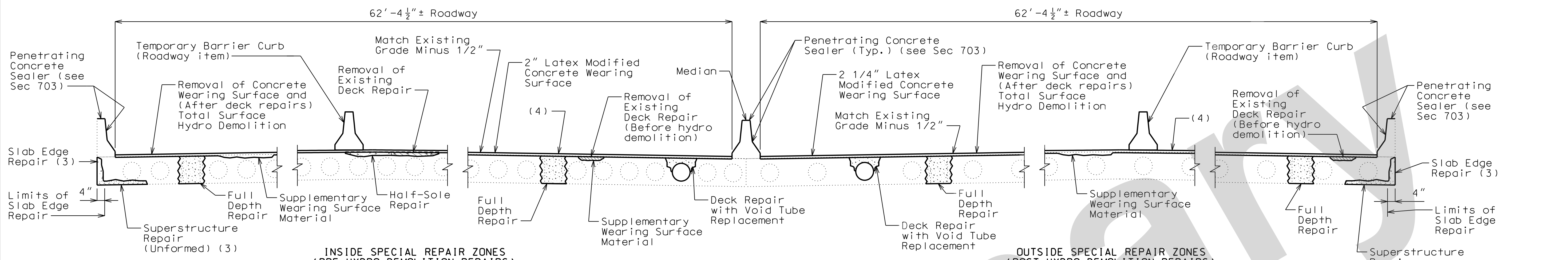
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MODOT

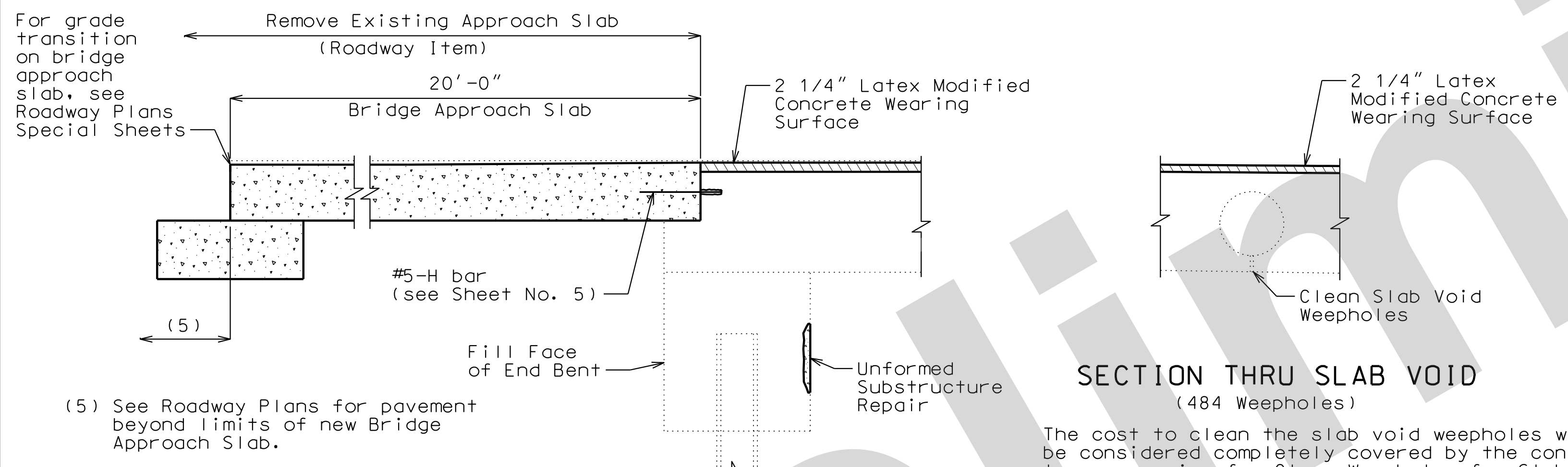
JACOBS

JACOBS CONSULTING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704



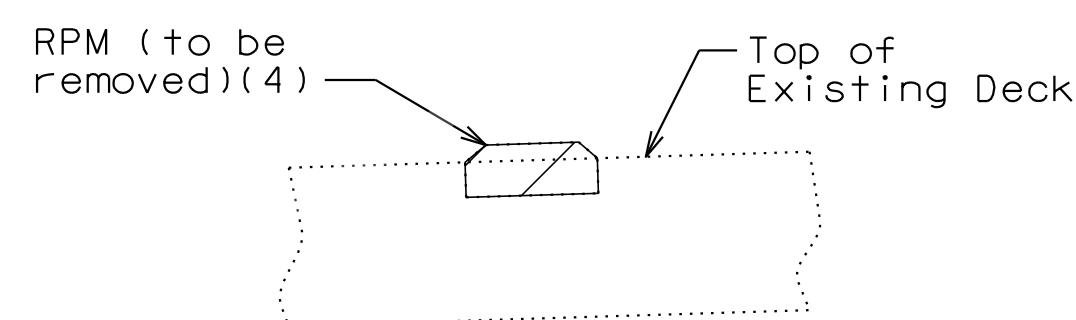
(3) Match existing concrete color. Apply tinted sealer to blend repair to existing concrete.

(4) Removal of Raised Pavement Markers (RPM) included in the cost of Removal of Concrete Wearing Surface.



(5) See Roadway Plans for pavement beyond limits of new Bridge Approach Slab.

The cost to clean the slab void weepholes will be considered completely covered by the contract lump sum price for Clean Weepholes for Slab Voids.



DETAIL SHOWING REMOVAL OF RAISED PAVEMENT MARKERS

Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	3405
Removal of Concrete Wearing Surface	sq. foot	24405
Removal of Existing Deck Repair	sq. foot	1500
(2) Removal of Cathodic Protection System	lump sum	1
Removal of Barrier	linear foot	30
Bridge Approach Slab (Major)	sq. yard	554
(1) Supplementary Wearing Surface Material	cu. yard	71
Latex Modified Concrete Wearing Surface	sq. yard	3534
(2) Diamond Grinding	sq. yard	3534
Penetrating Concrete Sealer	sq. yard	540
Type A Barrier	linear foot	70
Substructure Repair (Unformed)	sq. foot	50
Superstructure Repair (Unformed)	sq. foot	100
Half-Sole Repair	sq. foot	2000
Full Depth Repair	sq. foot	300
Slab Edge Repair (Bridges)	linear foot	10
Deck Repair with Void Tube Replacement	sq. foot	1500
Clean Weepholes for Slab Voids	lump sum	1
Curb Repair (Formed)	linear foot	15
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1

(1) Supplementary wearing surface material will be paid for at the fixed unit price in accordance with Sec 109.
 (2) See Special Provisions.

General Notes:

Design Specifications:
 2002 AASTHO LFD (17th Ed.) Standard Specifications
 Bridge Deck Rating = 6

Design Loading:
 HS20-44 Modified (1961) and HS20-44 Modified (1983)

Design Unit Stresses:
 Class B-1 Concrete (Barrier, Half-Sole and Full Depth Repair) $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:
 All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless noted otherwise.

Miscellaneous:
 All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

MBS refers to mechanical bar splices. Mechanical bar splices shall be in accordance with Sec 706 or 710 except that no measurement will be made for mechanical bar splices and they will be considered completely covered by the contract unit price for other items.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

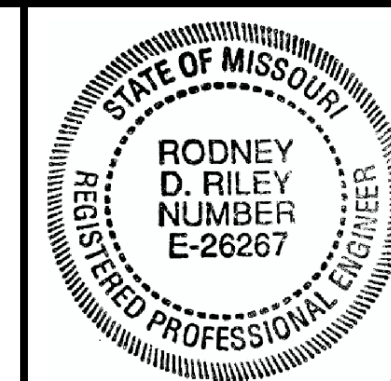
Traffic Handling:
 Traffic to be maintained on structure during construction. See roadway plans for traffic control.

Detailed June 2021
 Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 5

REPAIRS TO BRIDGE: ROUTE I-55 OVER BAYLESS ROAD
 ROUTE I-55 FROM I-270 TO I-44
 ABOUT 4.1 MILES NORTH OF ROUTE I-270
 BEGINNING STATION 405+80.08 +/- (Match Existing)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05323

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

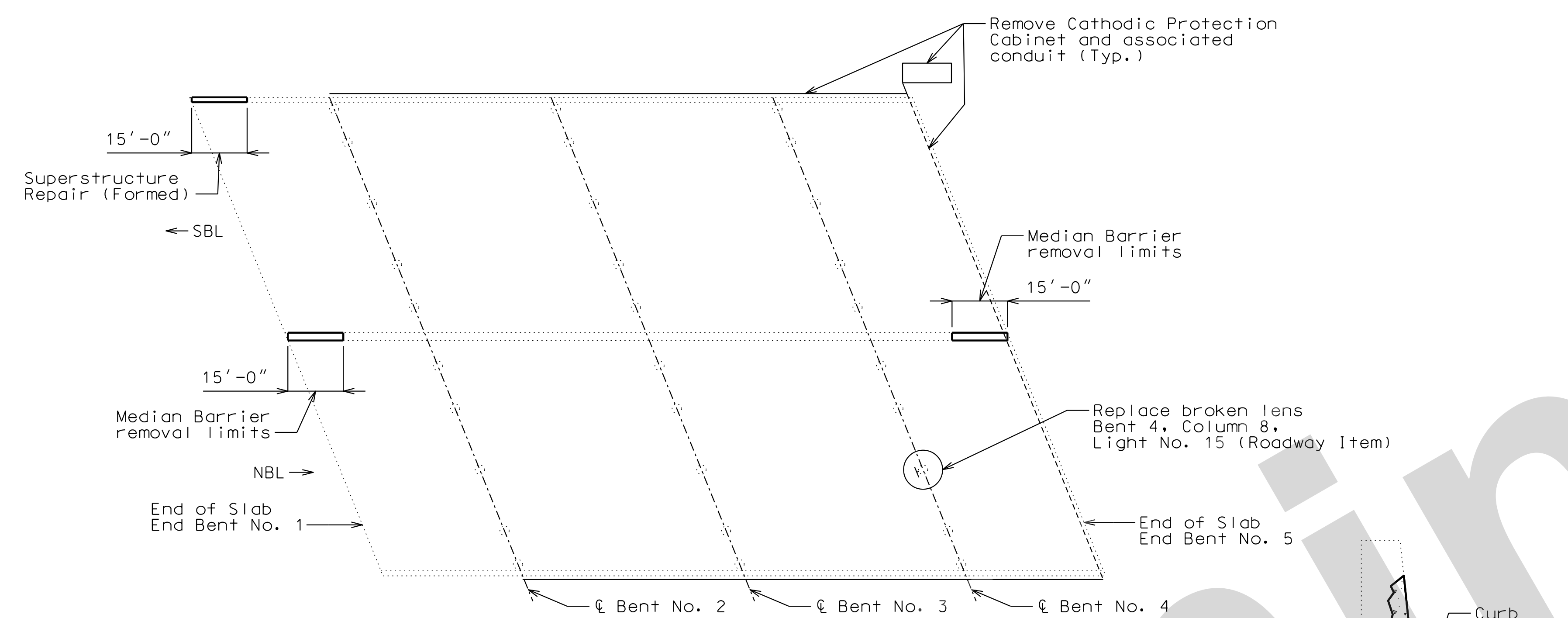
CERTIFICATE OF AUTHORITY #00704

REV.

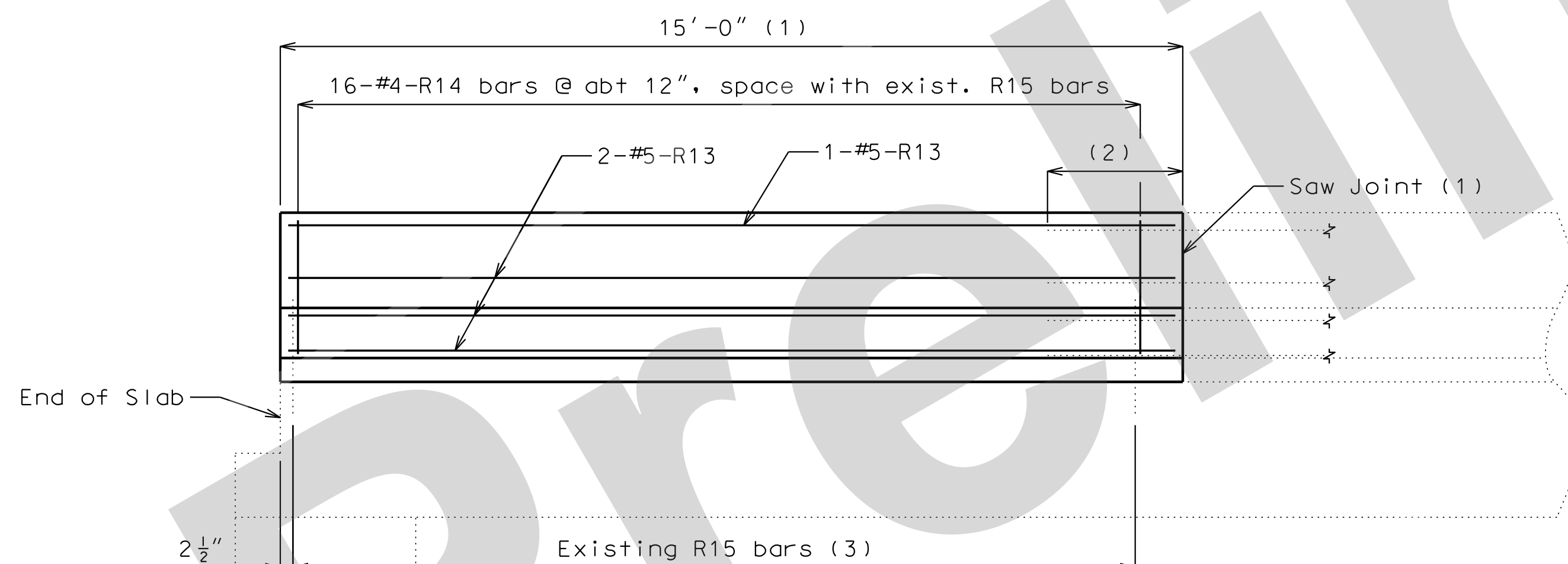
GENERAL NOTES

For barrier dimensions, notes and details not shown, see Sheet No. 4.

The cost to remove the existing barrier will be considered completely covered by the contract unit price for Remove Barrier.



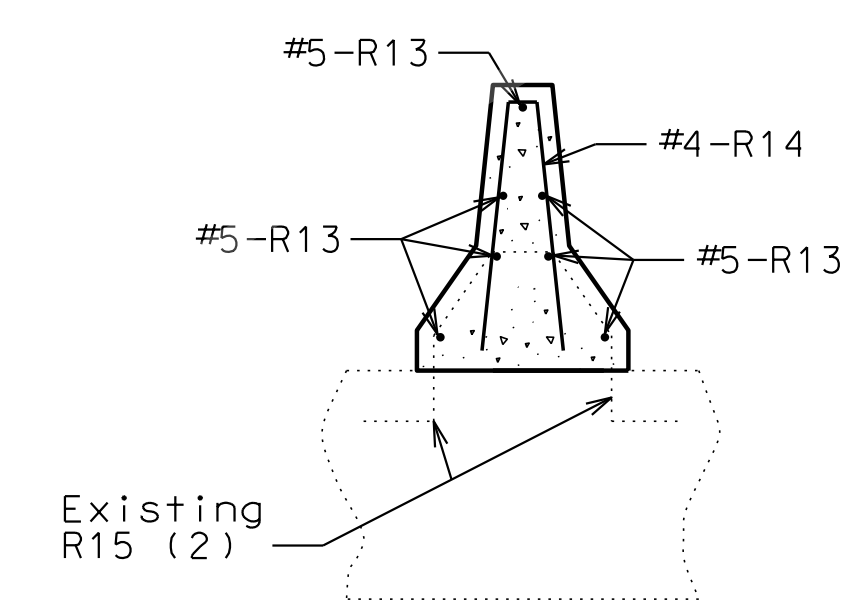
PLAN



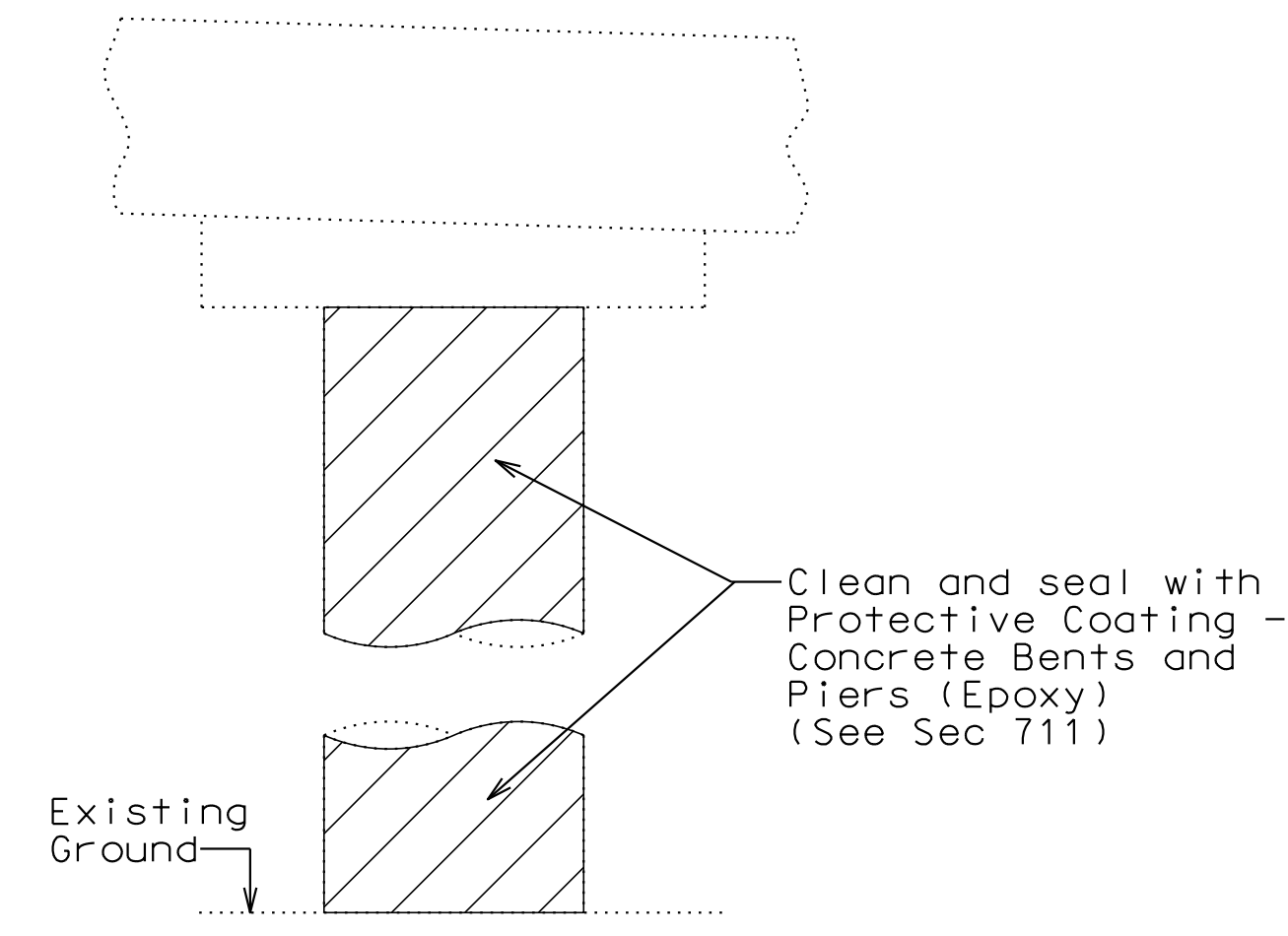
MEDIAN REPLACEMENT DETAIL

- (1) Saw cut surface where shown, do not cut reinforcing. Mechanically remove concrete.
- (2) Clean and straighten existing longitudinal bars and extend 2'-3" (Min.) into new concrete.
- (2) Clean and straighten existing embedded reinforcing.

BARRIER REPAIR DETAIL

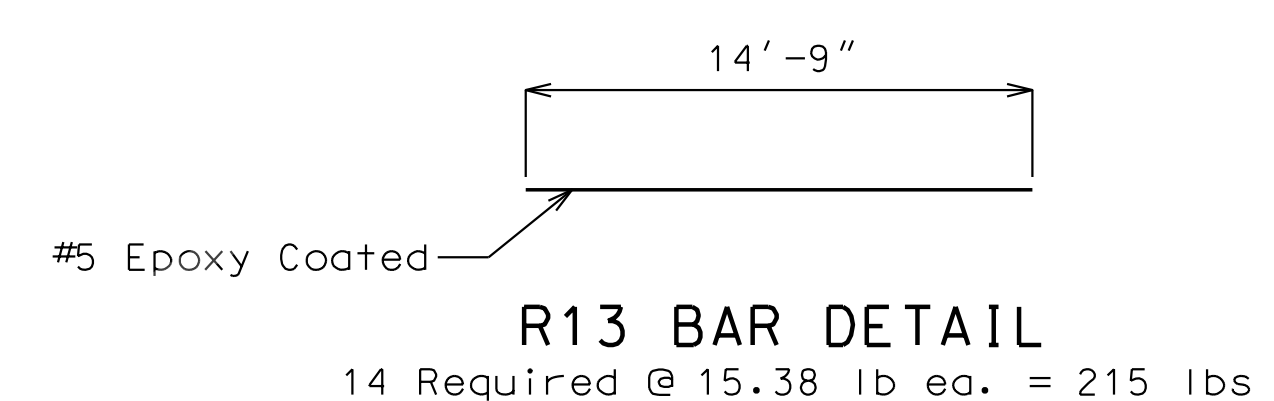


TYPICAL SECTION THROUGH MEDIAN



TYPICAL SECTION THRU INT. BENTS SHOWING PROTECTIVE COATING

(Applies to all columns at Int. Bents No. 2, 3 & 4)



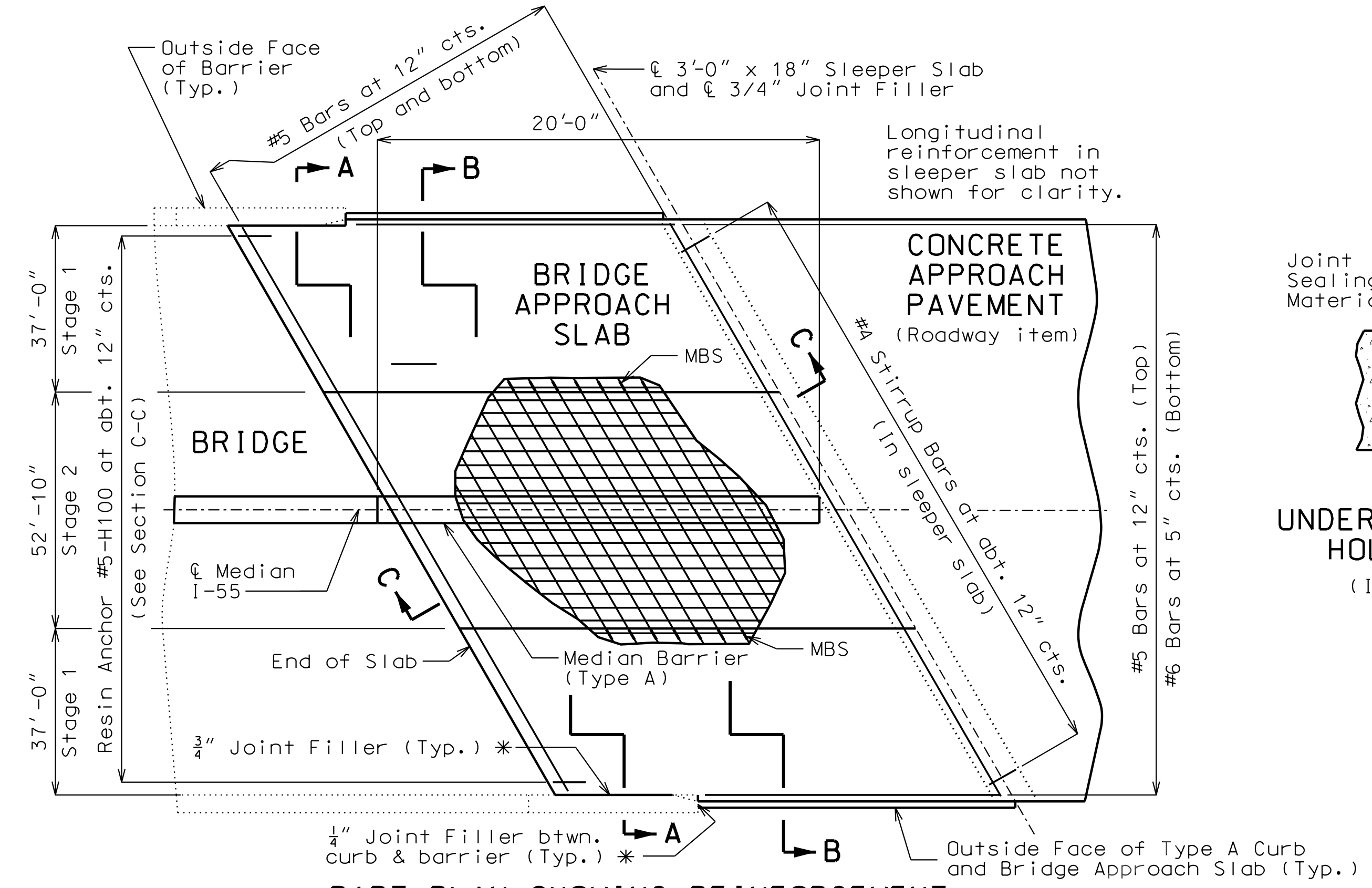
R13 BAR DETAIL

REHAB DETAILS

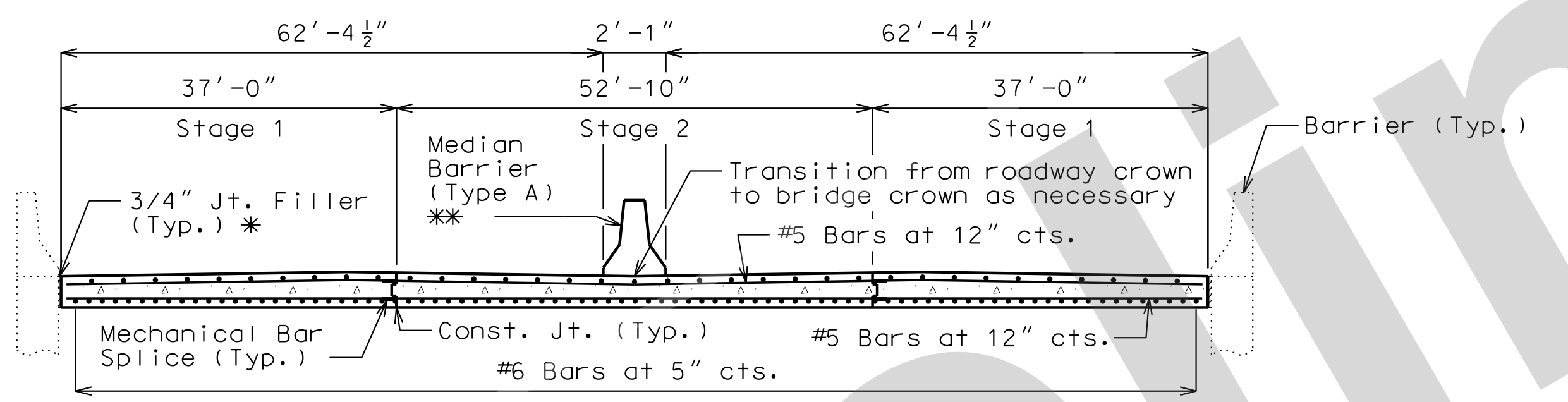
Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

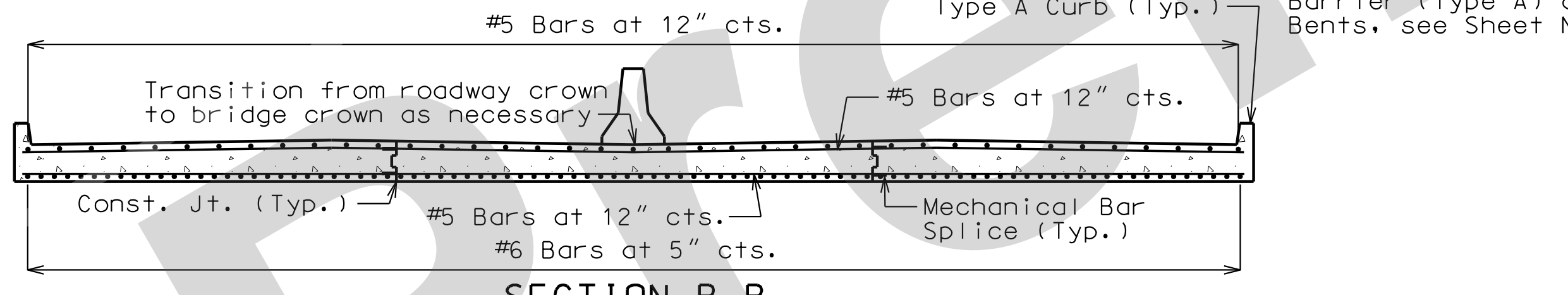
Sheet No. 3 of 5



PART PLAN SHOWING REINFORCEMENT

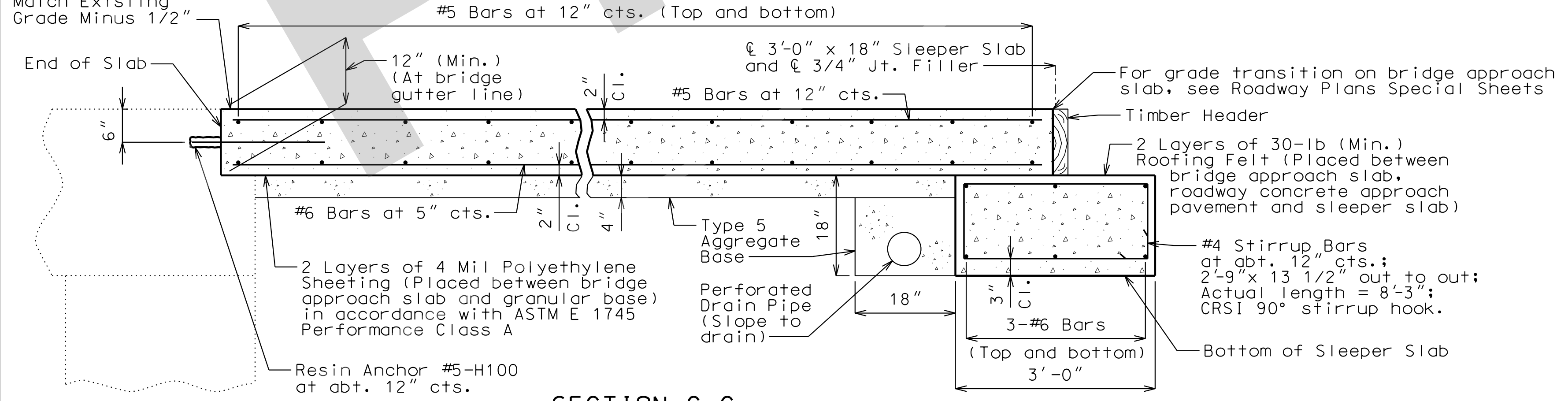


SECTION A-A



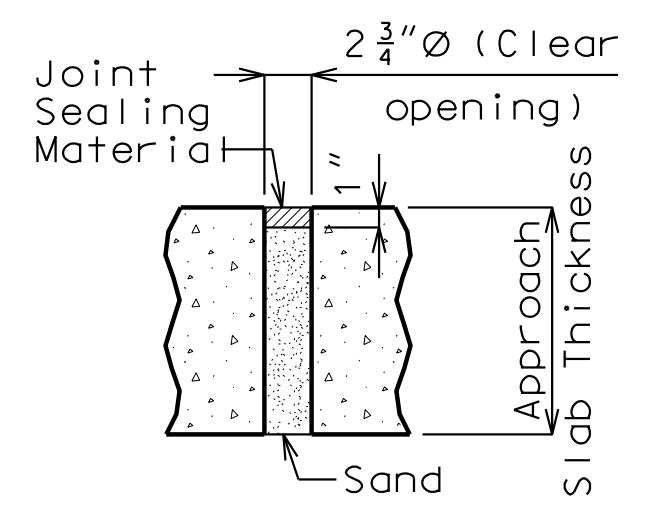
SECTION B-B

With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

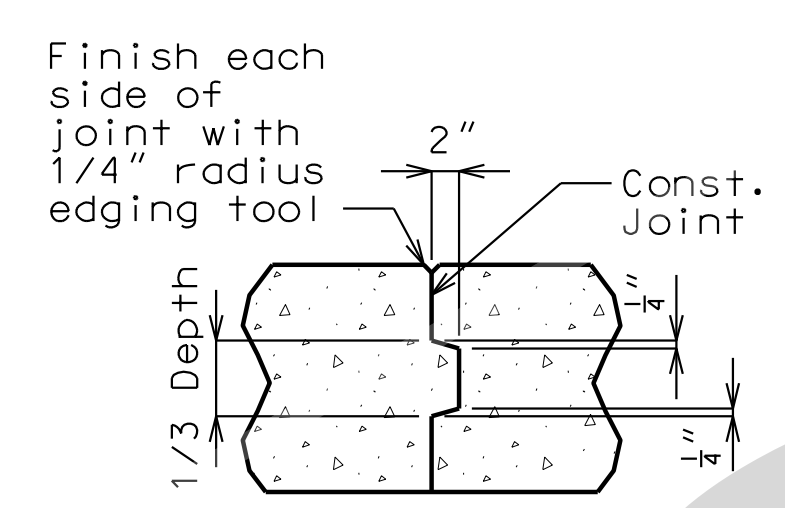


SECTION C-C

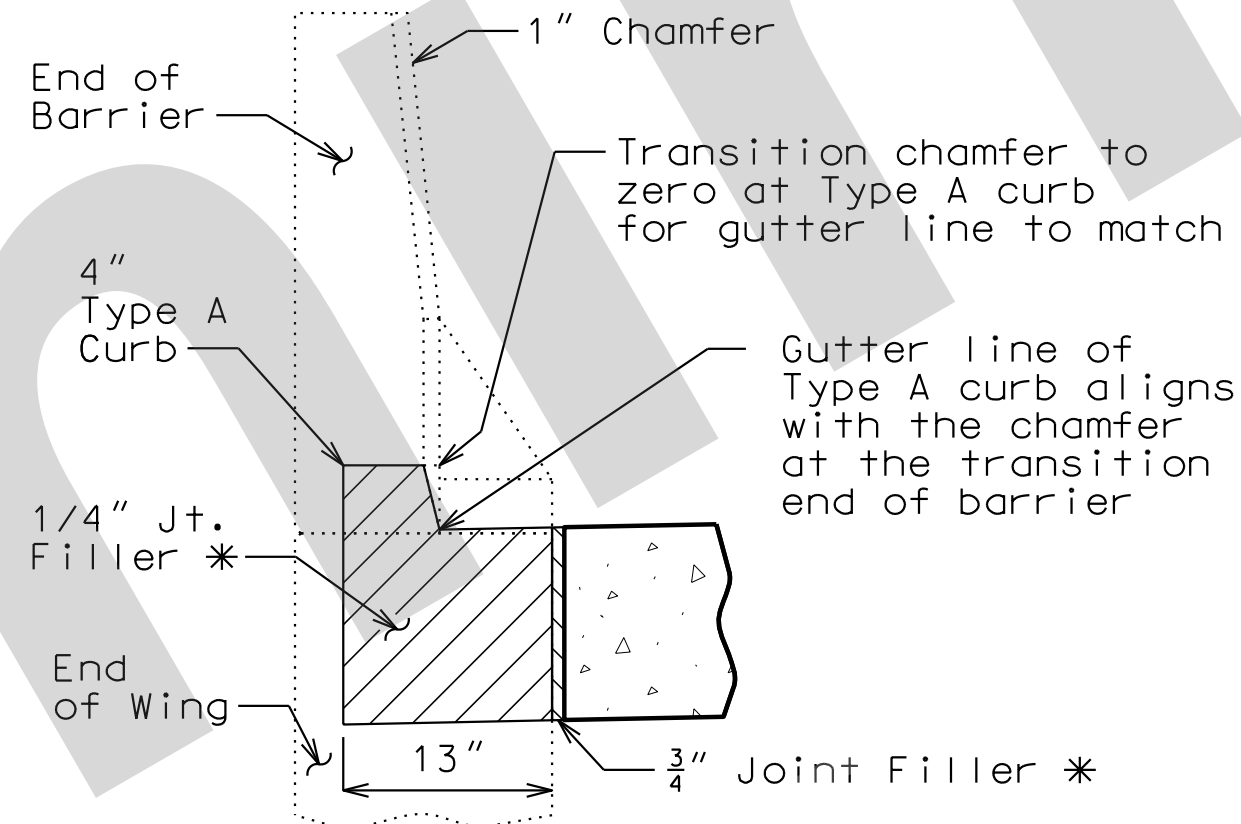
BRIDGE APPROACH SLAB (MAJOR)



UNDERSEAL ACCESS HOLE DETAIL (If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 ($f'c = 4,000$ psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $f_y = 60,000$ psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice (MBS).

Mechanical bar splices (MBS) shall be in accordance with Sec 710. (Estimated 84 +/- splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall repair and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials (including #5-H bars and resin anchor systems), labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For grade adjustments across Bridge Approach Slab, see Roadway Special Sheets.

RESIN ANCHORS:

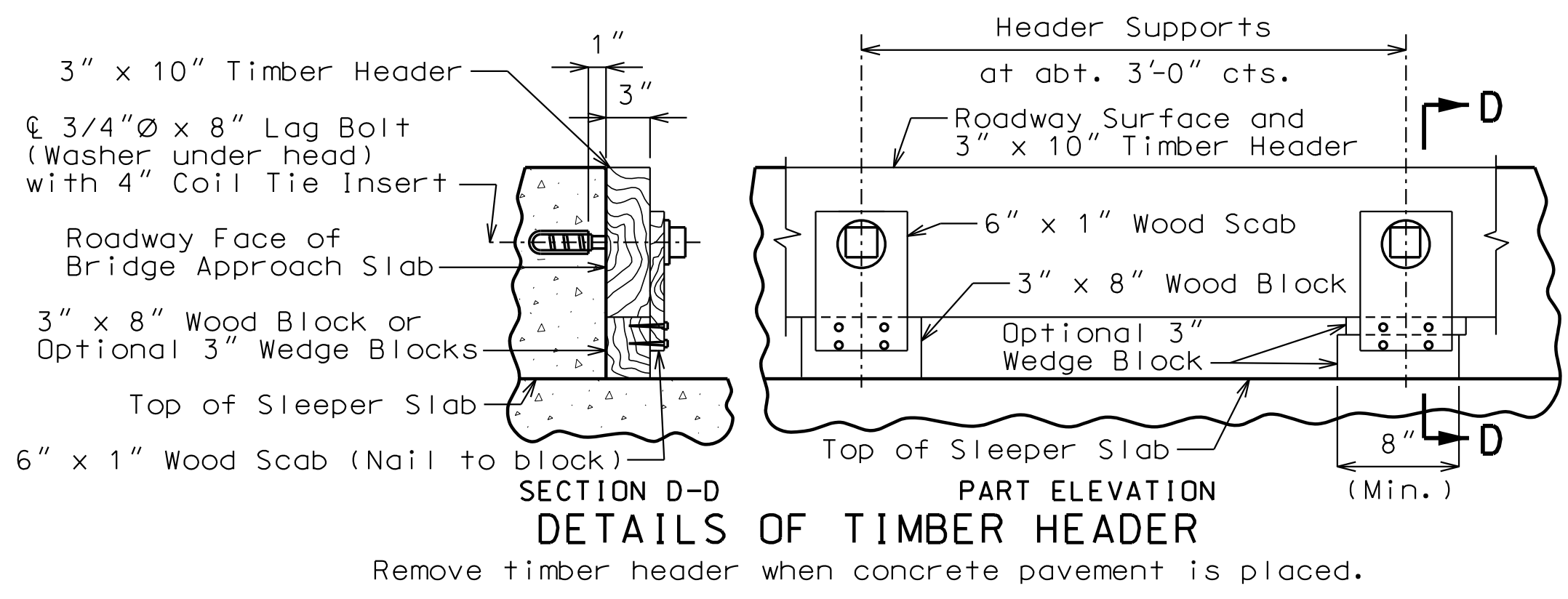
The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

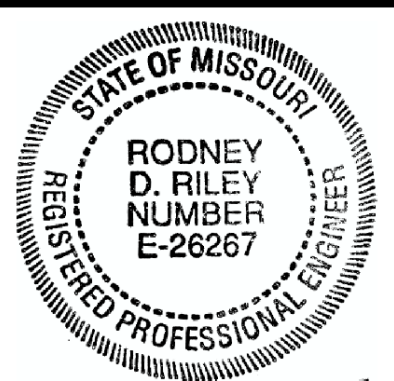
#5 H-100 RESIN ANCHOR SYSTEM

127 Required per slab
 *** Manufacturer's recommended embedment length (5" Min.)



SECTION D-D PART ELEVATION DETAILS OF TIMBER HEADER

Remove timber header when concrete pavement is placed.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A05323

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

ModOT

JACOBS

JACOBS ENGINEERING GROUP 601 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

U.I.P., REDECK AND REHABILITATE EXISTING (35') SIMPLE COMPOSITE WIDE FLANGE GIRDER SPAN
 (99'-99'-99'-99'-85.5') CONTINUOUS COMPOSITE PLATE GIRDER SPANS (38') SIMPLE COMPOSITE WIDE FLANGE GIRDER SPAN (SKEW: SQUARE)

SEC/SUR 3102 TWP 44N RGE 7E



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

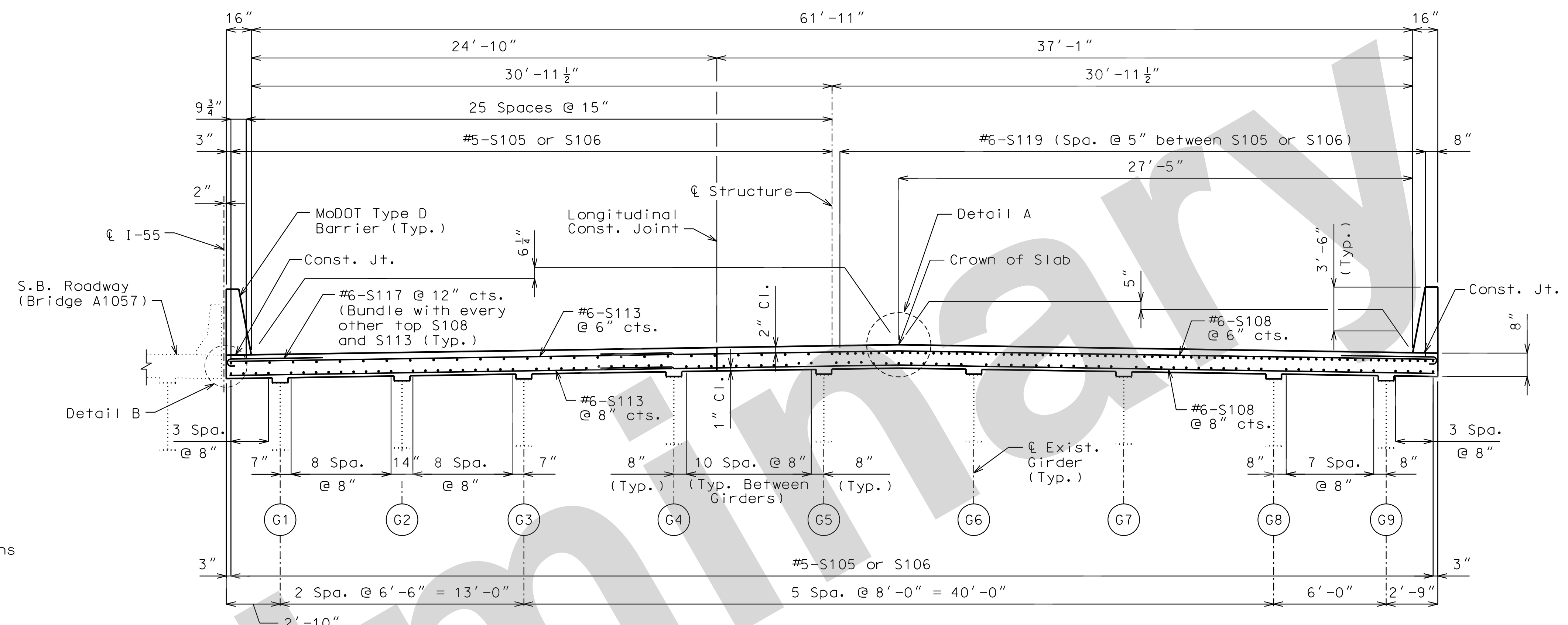
JACOBS

ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

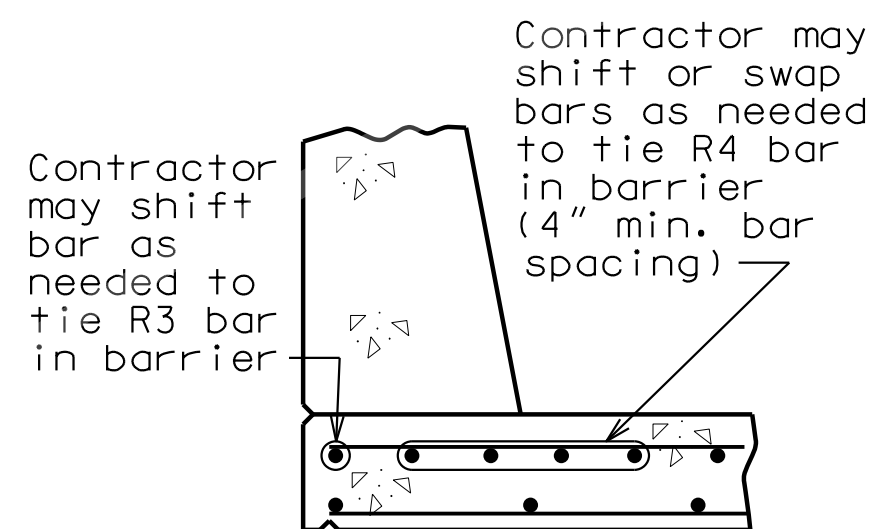
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.

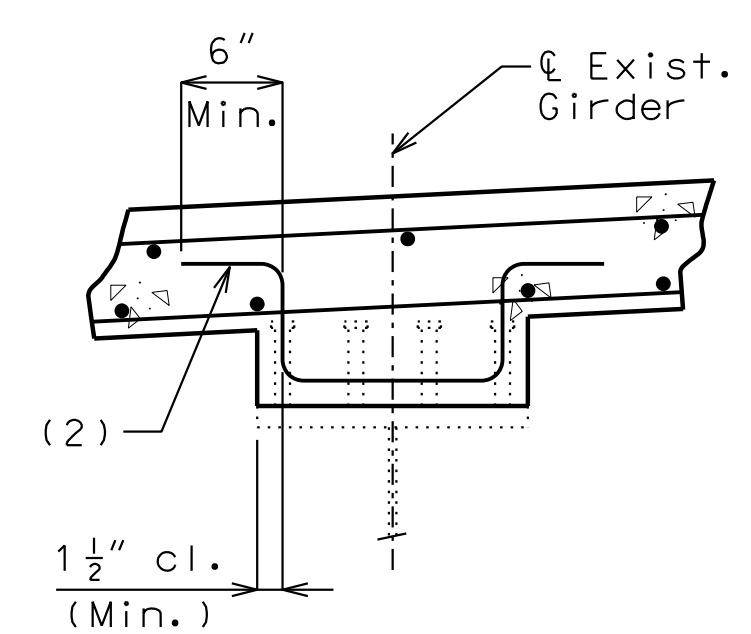


General Notes:

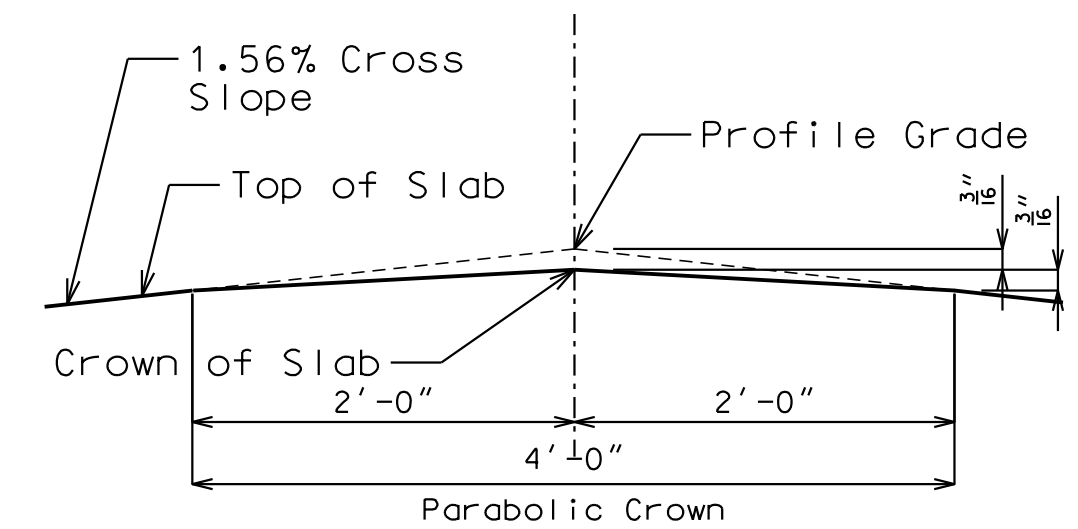
- Design Specifications: 2002 AASHTO LFD (17th Ed.) Standard Specifications
- Design Loading: HS20-44 Modified (1961), HS20-44 (1983 and 2021), No allowance for future wearing surface
- Design Unit Stresses:
 - Class B-1 Concrete (Barrier) $f'c = 4,000$ psi
 - Class B-2 Concrete (End Bents & Superstructure except Barrier) $f'c = 4,000$ psi
 - Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
 - Structural Steel (ASTM A709 Grade 50) $f_y = 50,000$ psi
- Joint Filler: All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.
- Reinforcing Steel: Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.
- Miscellaneous:
 - Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.
 - Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.
 - Final top of slab elevations shall match existing top of overlay elevations.
 - Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)
 - All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.
 - Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.
 - Longitudinal dimensions are based on the original design plans.
 - Contractor shall verify all dimensions in field before ordering new material.
 - The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.



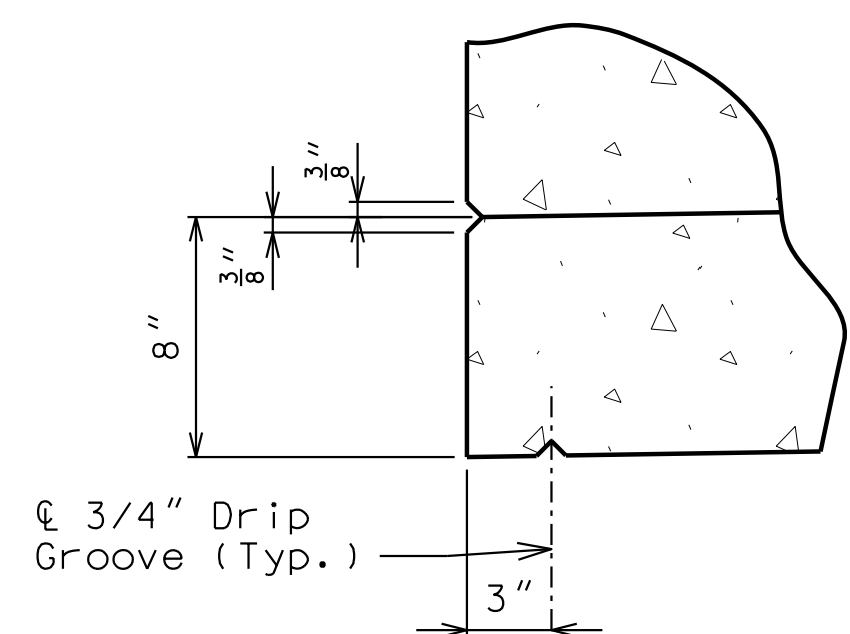
OPTIONAL SHIFTING TOP BARS AT BARRIER



SECTION THRU HAUNCH
 (2) 513-#4-S129 @ 12" cts. (Girder 1)
 554-#4-S129 @ 12" cts. (Girder 2)
 556-#4-S129 @ 12" cts. (Girders 3-9)
 (4,959 total)



DETAIL A



DETAIL B

REPAIRS TO BRIDGE:
 ROUTE I-55 NB OVER RIVER DES PERES

ROUTE I-55 FROM ROUTE I-270 TO ROUTE I-44
 ABOUT 5.3 MILES NORTH OF ROUTE I-270
 STATION 462+77.62± (MATCH EXISTING)

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Pouring and Finishing Slab:

The contractor shall determine dead load deflections and haunching based on field measurements and/or existing bridge plans and these may be adjusted based on the difference between the new and existing dead load weights.

The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

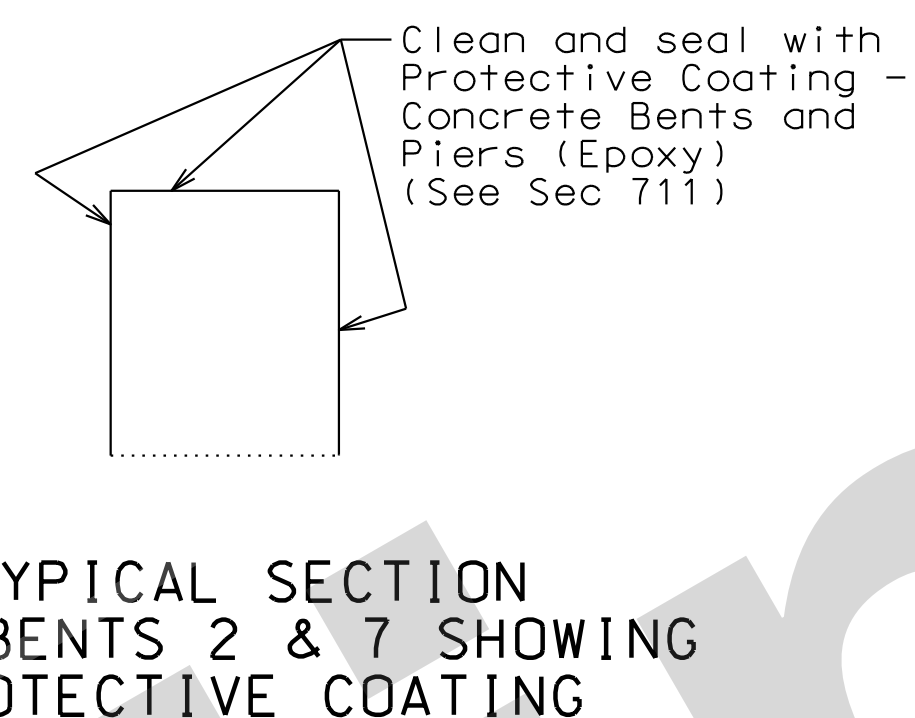
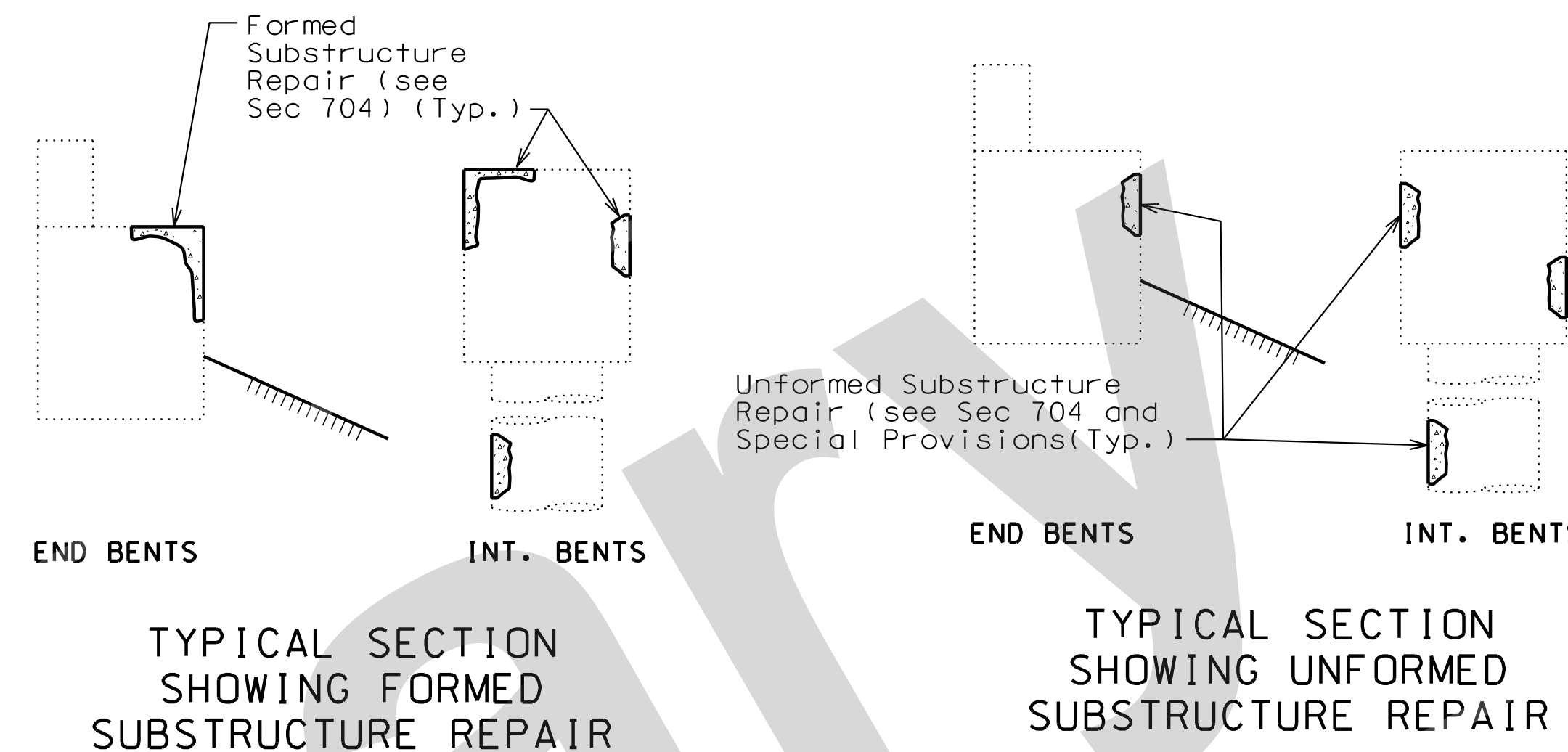
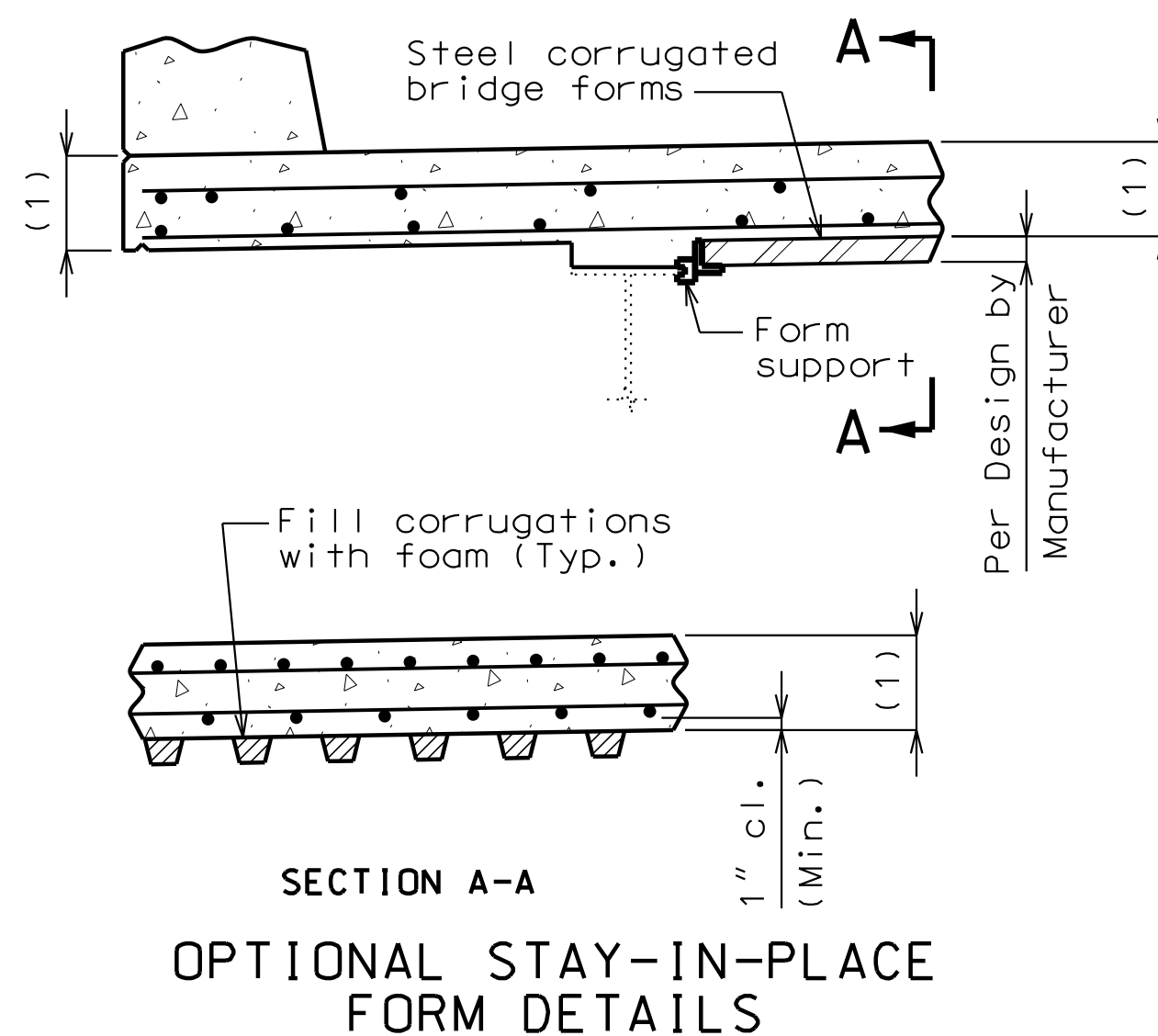
Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Haunching:

(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

Miscellaneous:

High strength bolts, nuts and washers shall be sampled for quality assurance as specified in Sec 106.



Estimated Quantities			
Item		Substr.	Superstr. Total
Removal of Existing Bridge Deck	sq. foot		36,035 36,035
Partial Removal of Existing Structural Steel	lump sum		1 1
Bridge Approach Slab (Major)	sq. yard		288 288
Slab on Steel	sq. yard		3,998 3,998
Type D Barrier	linear foot		1,168 1,168
Ultra-High Performance Concrete	cu. yard		19.9 19.9
Substructure Repair (Formed)	sq. foot	140	140
Substructure Repair (Unformed)	sq. foot	260	260
Conduit System on Structure	lump sum		1
Protective Coating - Concrete Bents & Piers (Epoxy)	lump sum		1
Fabricated Structural Low Alloy Steel (Misc.)	pound		31,010 31,010
Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50	pound		82,630 82,630
Slab Drain	each		52 52
Surface Preparation for Recoating Structural Steel	sq. foot		500 500
Field Application of Organic Zinc Primer	sq. foot		500 500
Intermediate Field Coat (System G)	sq. foot		6,900 6,900
Plain Neoprene Bearing Pad	each		18 18
Type N PTFE Bearing	each		18 18
Strip Seal Expansion Joint System	linear foot		125 125

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	950
Reinforcing Steel (Epoxy Coated)	pound	341,720

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see this sheet.

All concrete between the upper and lower construction joints in the end bent is included in the Estimated Quantities for Slab on Steel.



DATE PREPARED 16-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 2
COUNTY ST. LOUIS	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10574	

DESCRIPTION	DATE

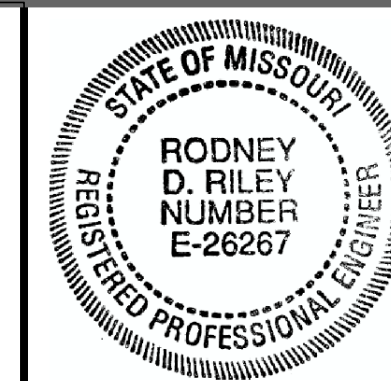
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY
#00704

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODDOT (1-888-275-6636)

MODOT

JACOBS ENGINEERING GROUP

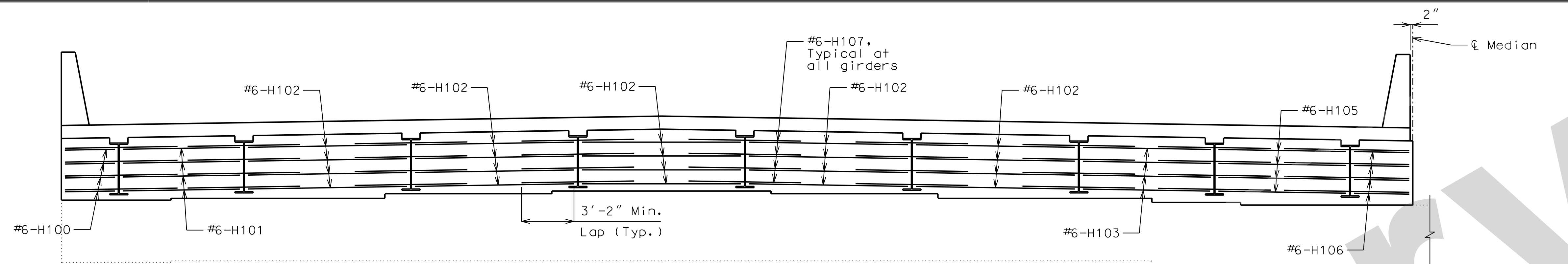
901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

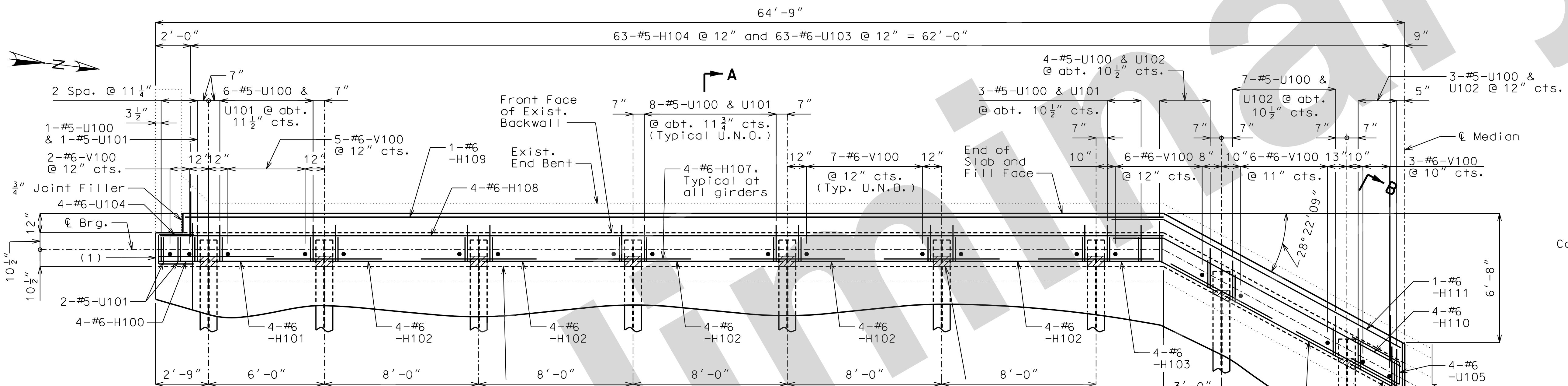
CERTIFICATE OF AUTHORITY #00704

JACOBS

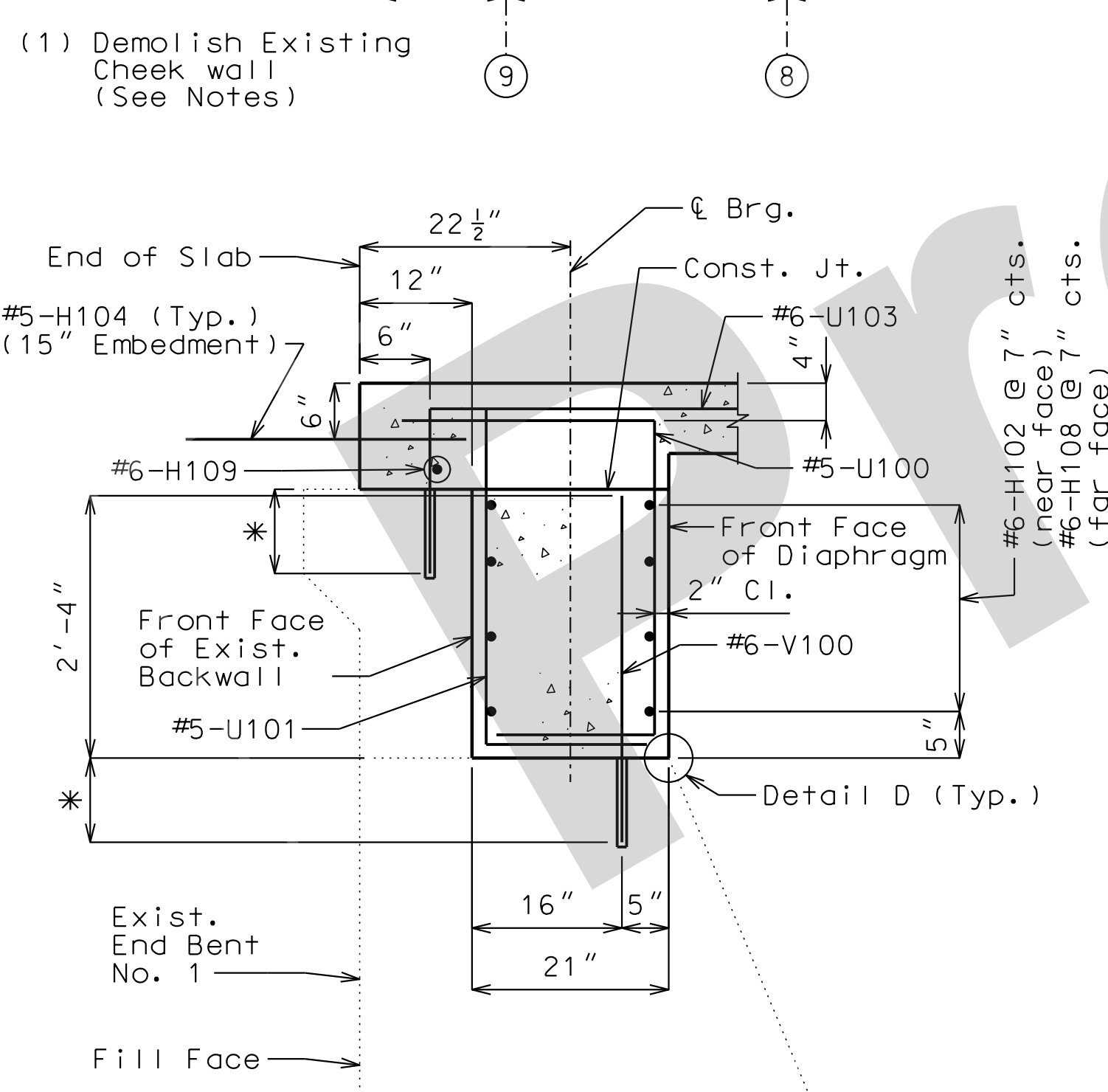
REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



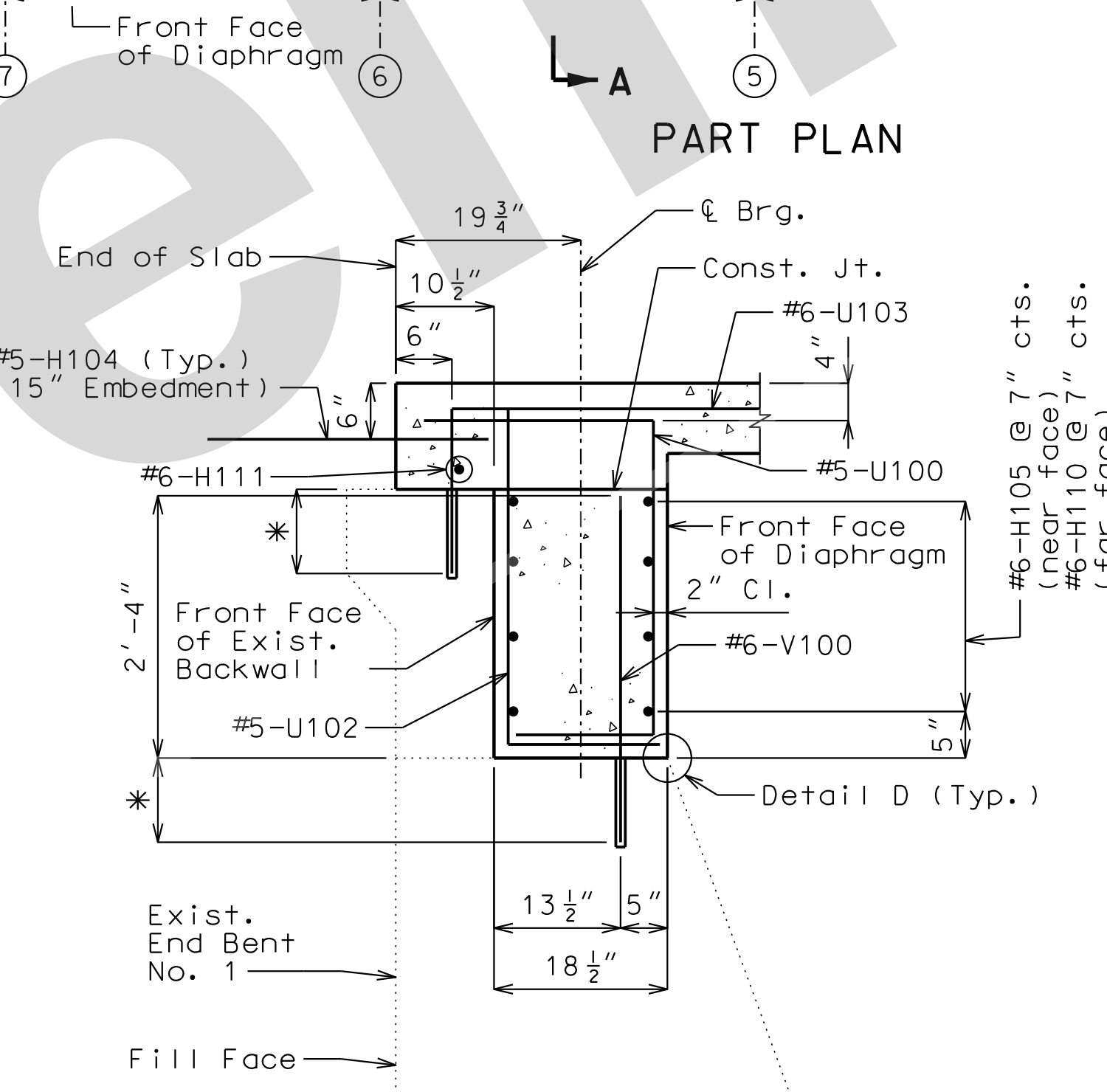
SECTION NEAR END BENT
U-bars not shown for clarity.



PART PLAN

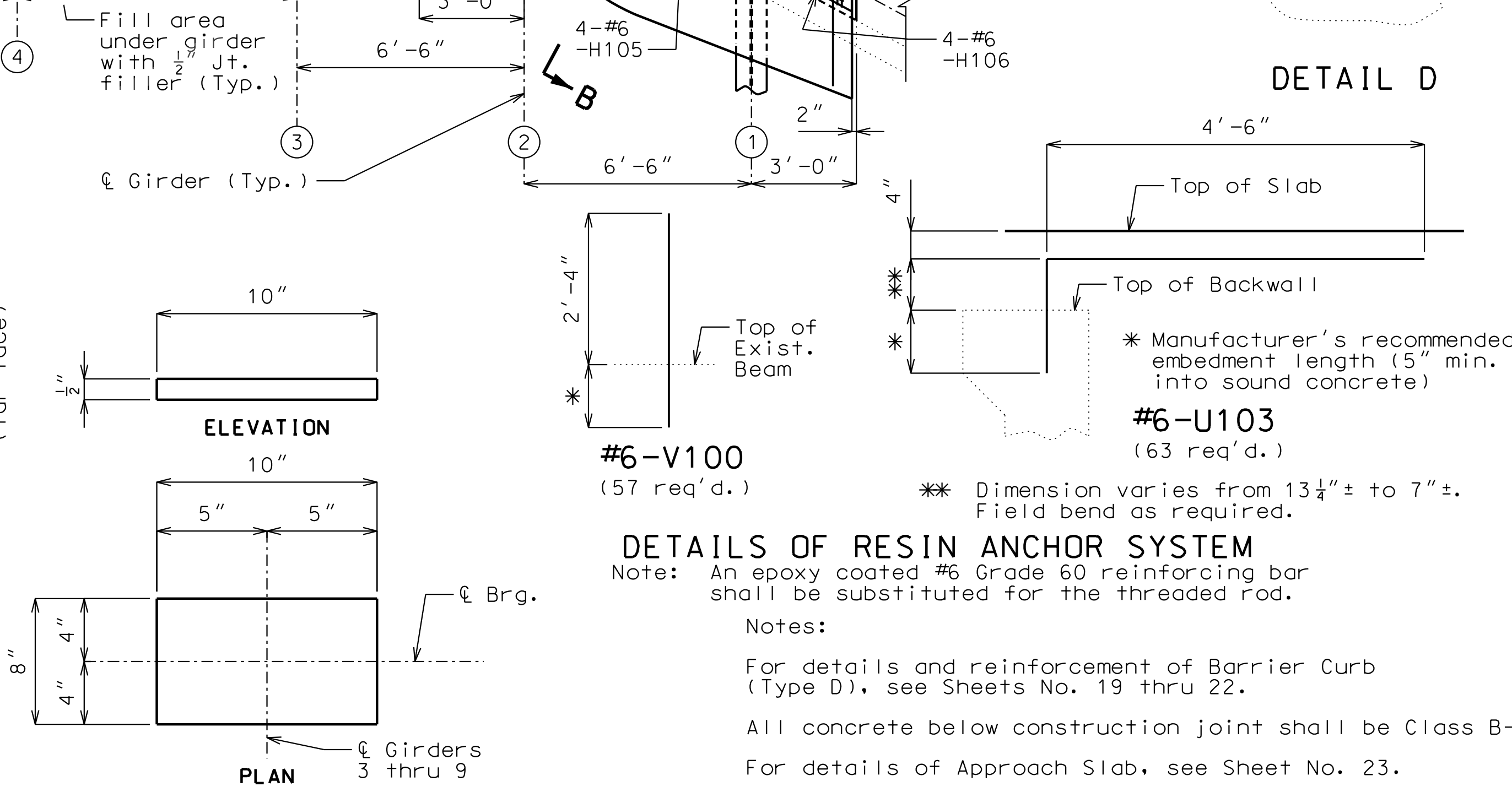


SECTION A-A



SECTION B-B

Note: U bars are shown perpendicular with section for clarity, but should be placed parallel with roadway.



PLAIN NEOPRENE BEARING PAD DETAILS

Note: Bearing Pad at Girders 1 and 2 are square with girder.

DETAILS OF RESIN ANCHOR SYSTEM

Note: An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the threaded rod.

Notes:

For details and reinforcement of Barrier Curb (Type D), see Sheets No. 19 thru 22.

All concrete below construction joint shall be Class B-2.

For details of Approach Slab, see Sheet No. 23.

The U bars shall be placed parallel to the centerline of roadway.

Saw cut and remove existing 9" cheek wall to horizontal point flush with top of end bent cap and vertical point flush with front face of existing backwall. Lap existing reinforcing into new integral diaphragm.

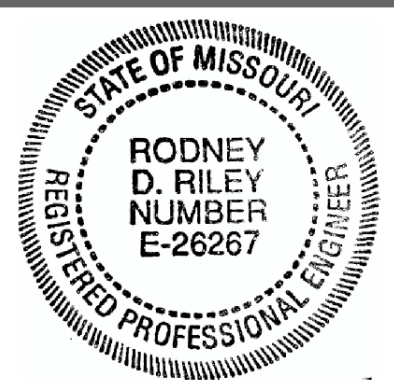
For Resin Anchor Notes, see Sheet No. 4.

U.N.O. = Unless Noted Otherwise

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 28

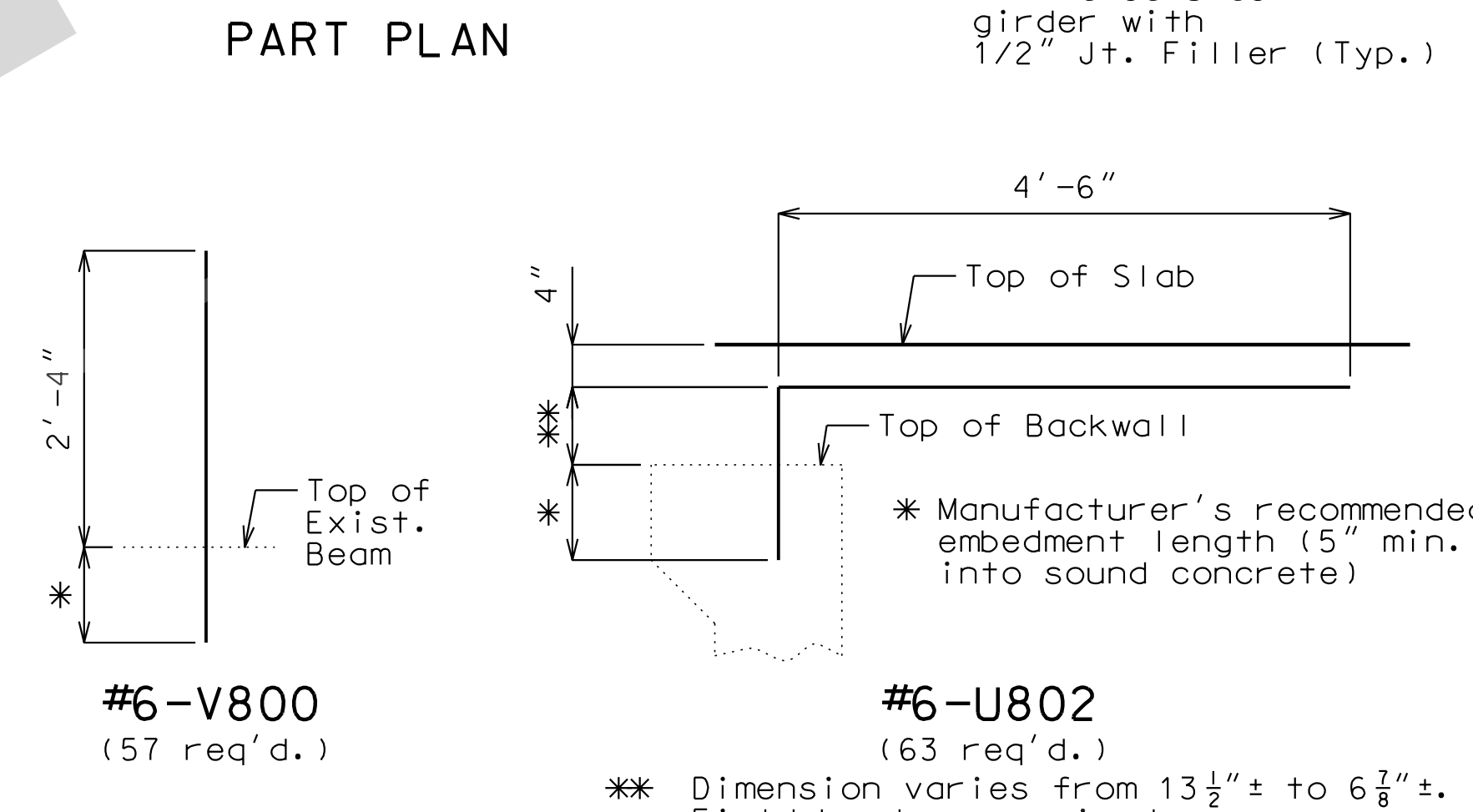
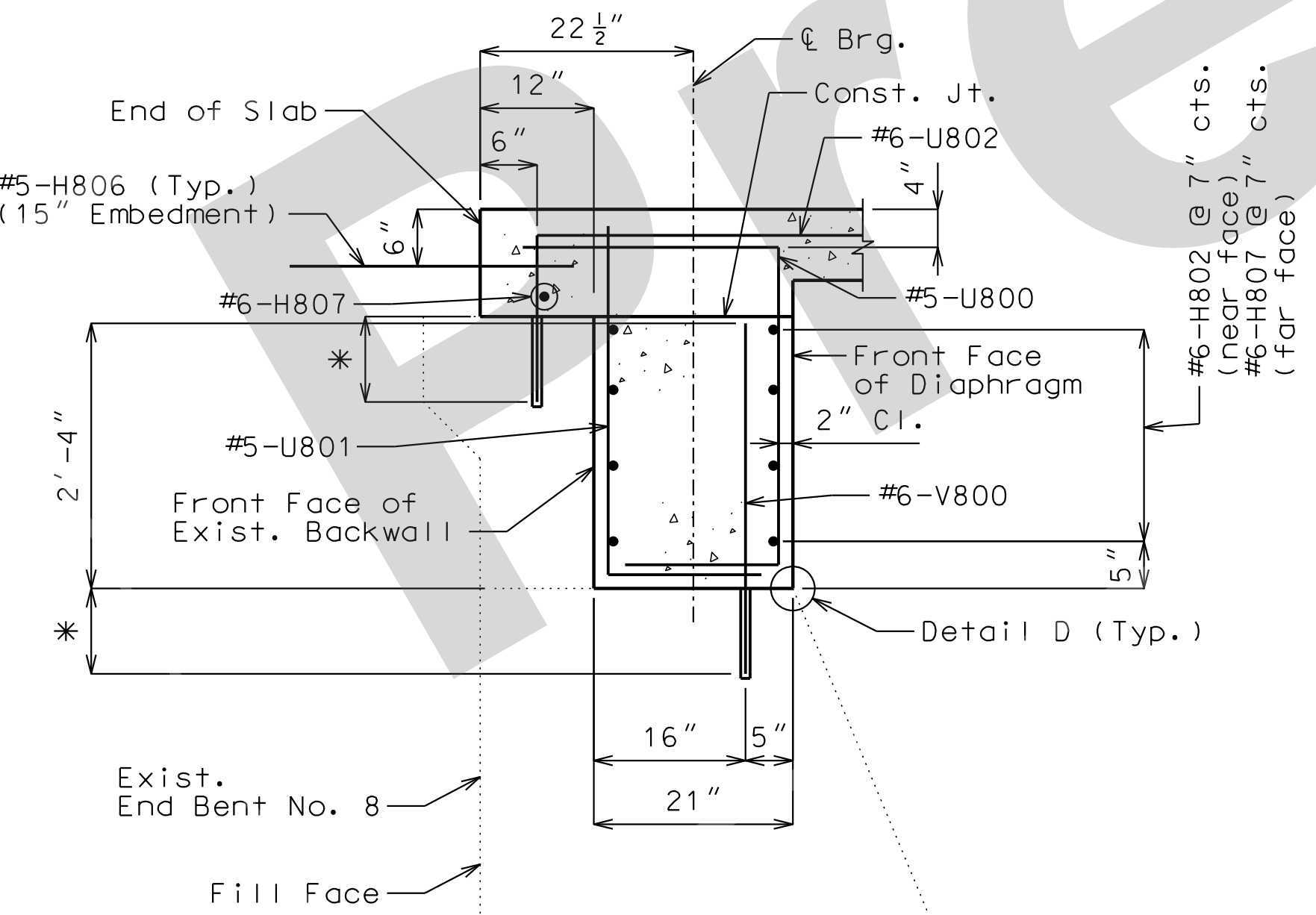
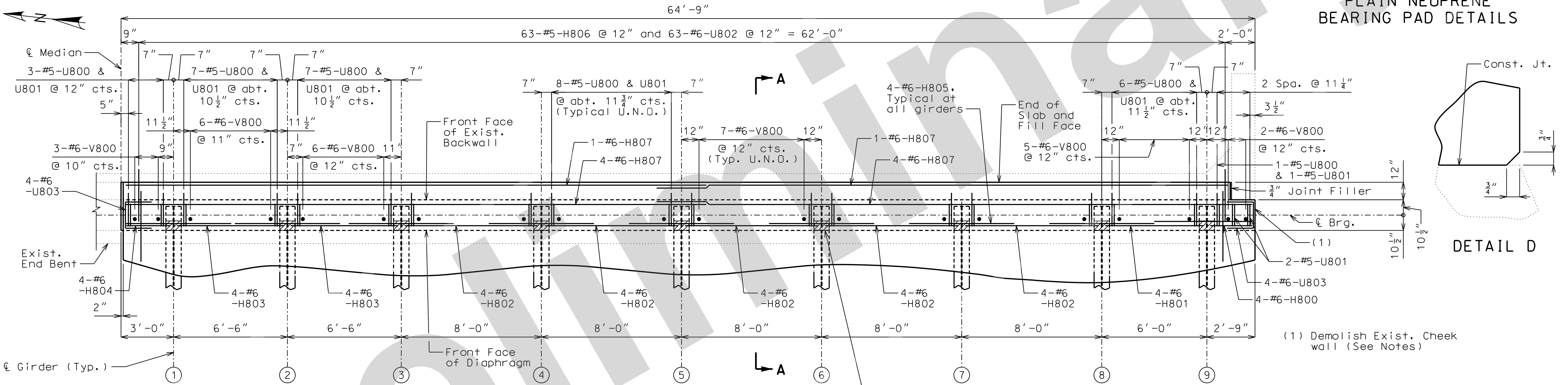
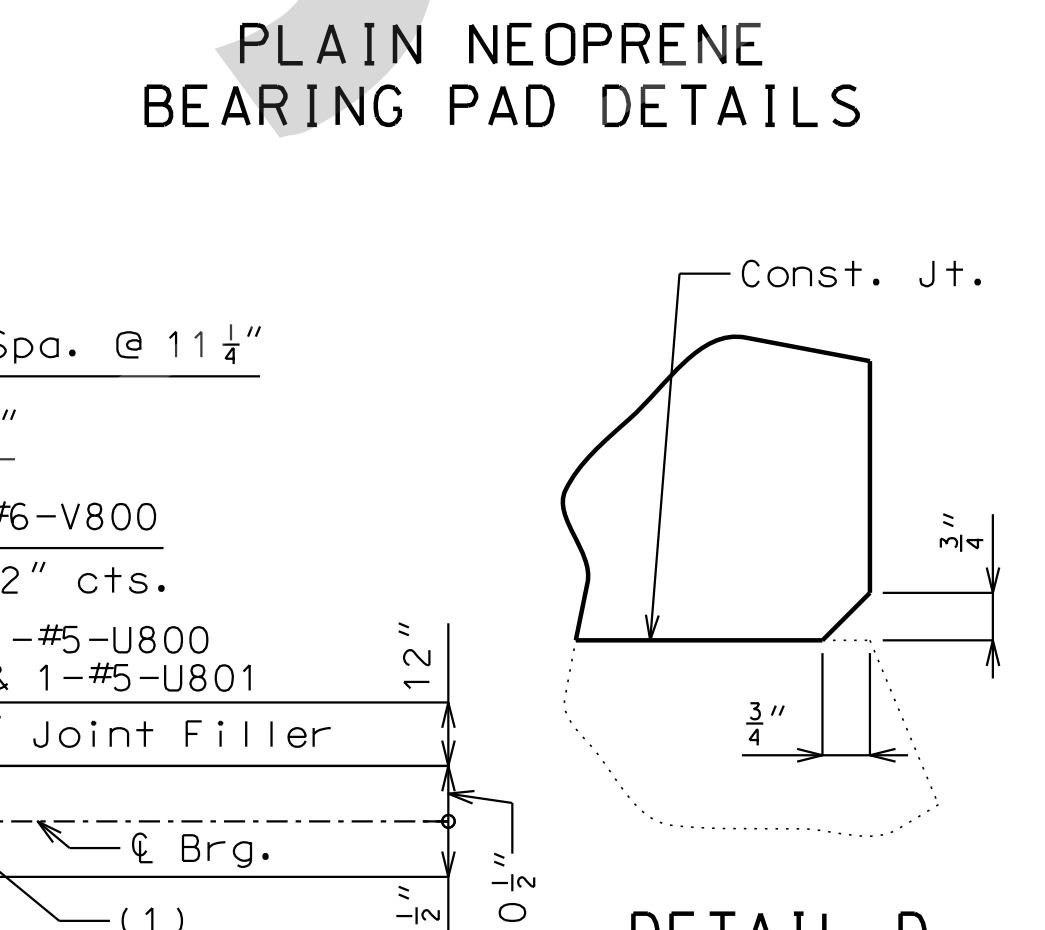
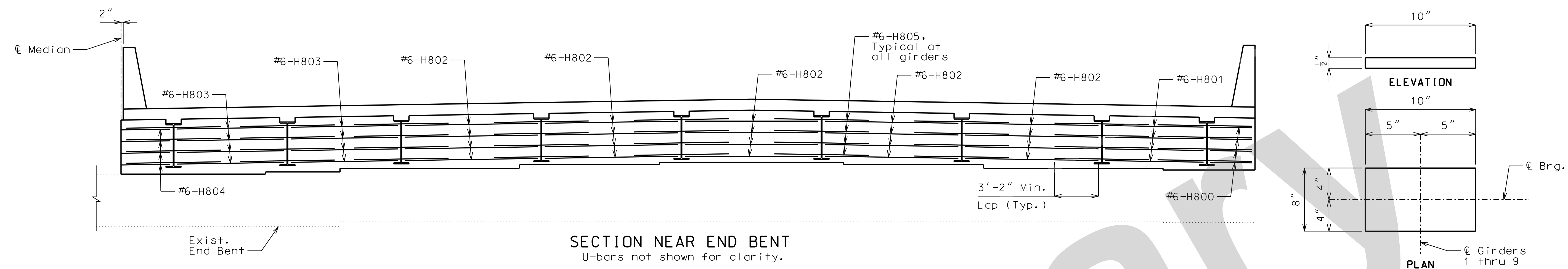


THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 DATE PREPARED 16-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT BR SHEET NO. 4
 COUNTY ST. LOUIS
 JOB NO. J613187
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A10574

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

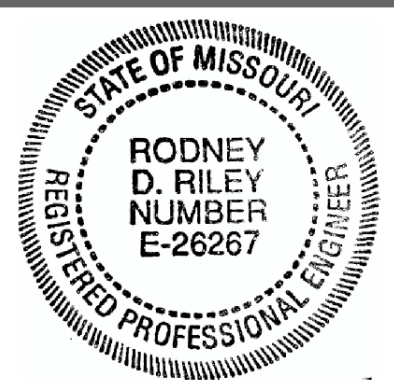
JACOBS
 JACOBS GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704



Notes:
 For details and reinforcement of Barrier Curb (Type D), see Sheets No. 19 thru 22.
 All concrete below construction joint shall be Class B-2.
 For details of Approach Slab, see Sheet No. 24.
 The U bars shall be placed parallel to the centerline of roadway.
 Saw cut and remove existing 9" cheek wall to horizontal point flush with top of end bent cap and vertical point flush with front face of existing backwall. Lap existing reinforcing into new integral diaphragm.
 The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.
 Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.
 The minimum embedment depth in concrete with f'c = 3,000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".
 An epoxy coated #6 Grade 60 reinforcing bar shall be used for all resin anchors.
 U.N.O. = Unless Noted Otherwise

#6-V800 (57 req'd.)
#6-U802 (63 req'd.)
 ** Dimension varies from 13 1/2" ± to 6 7/8" ±. Field bend as required.

DETAILS OF RESIN ANCHOR SYSTEM
 Note: An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the threaded rod.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 6

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

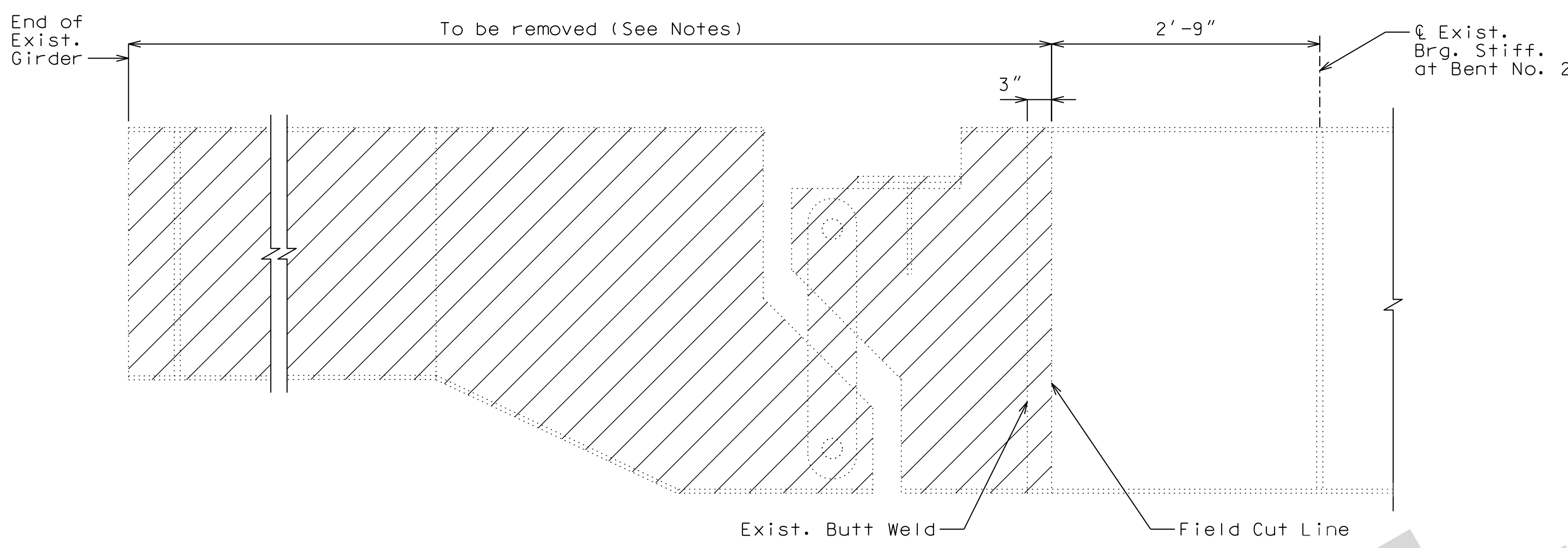
JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

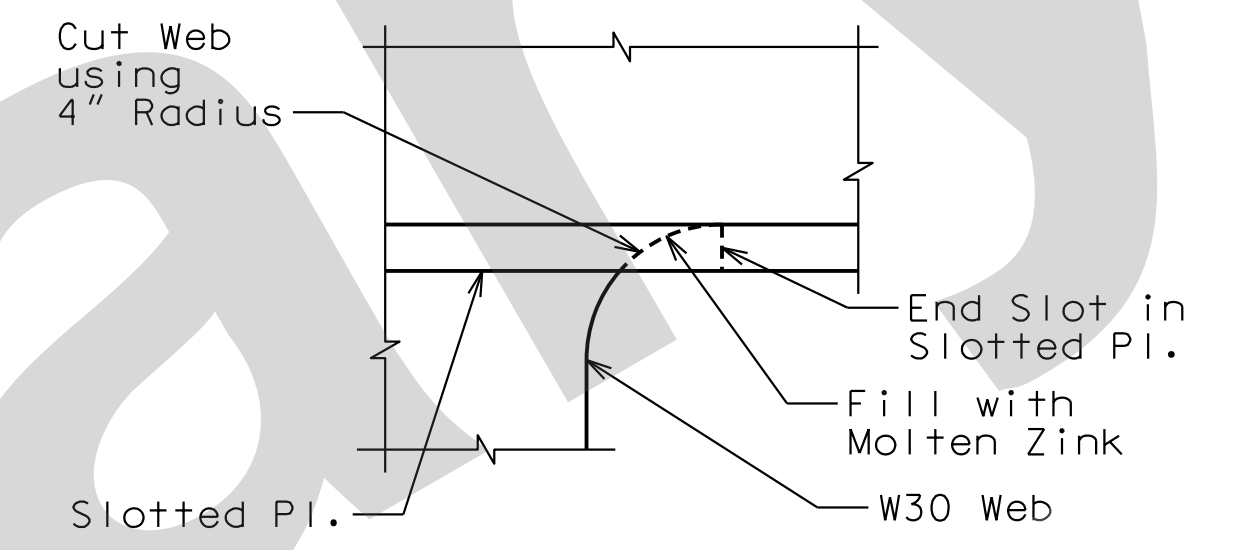
Steel Erection Gap Between Girder Ends at Various Temperatures						
Span	@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F
1	6 1/2"	6 1/4"	6"	5 3/4"	5 1/2"	5 3/16"
7	6 1/2"	6 1/4"	6"	5 3/4"	5 1/2"	5 1/4"

The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding the setting of the girder.

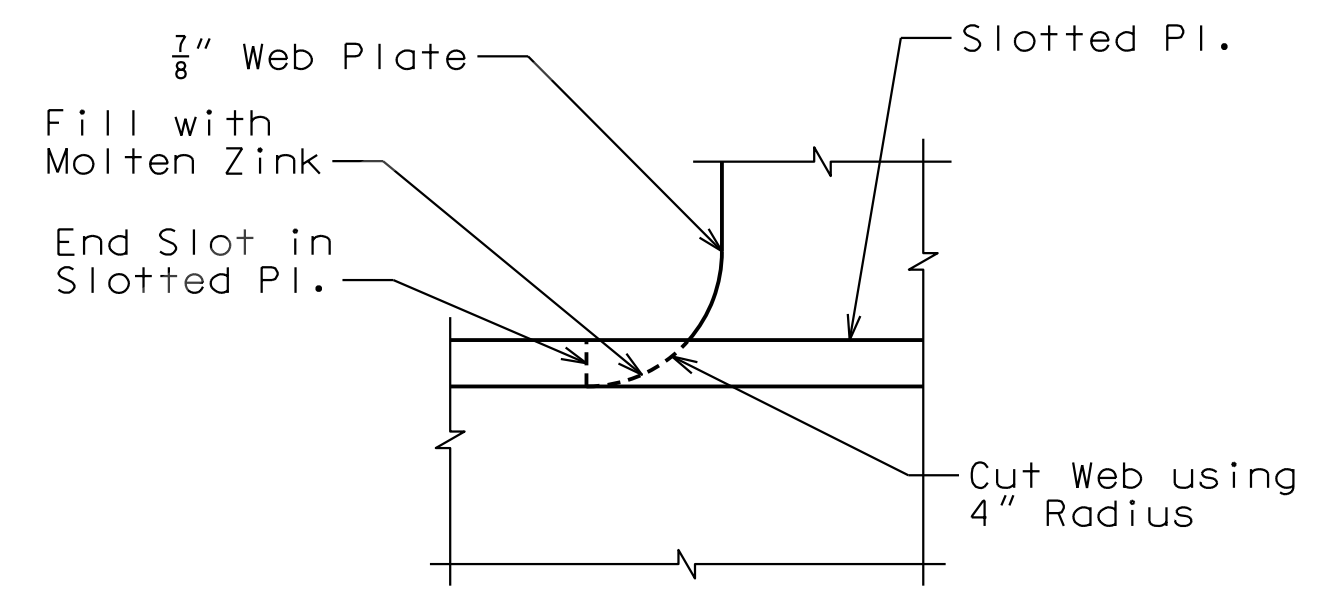


DEMOLITION OF EXISTING PIN AND HANGER NEAR INTERMEDIATE BENT NO. 2

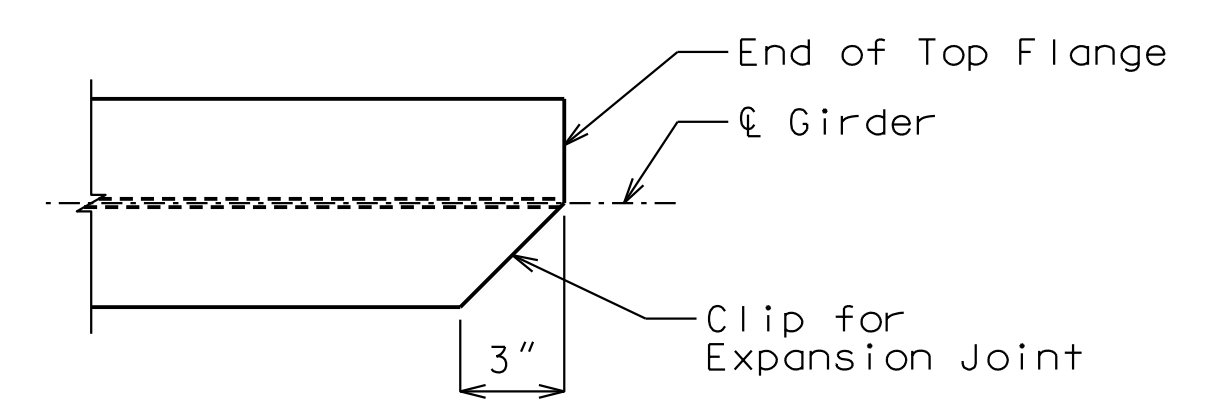
Note: Pin and Hanger at Bent No. 7, Similar.



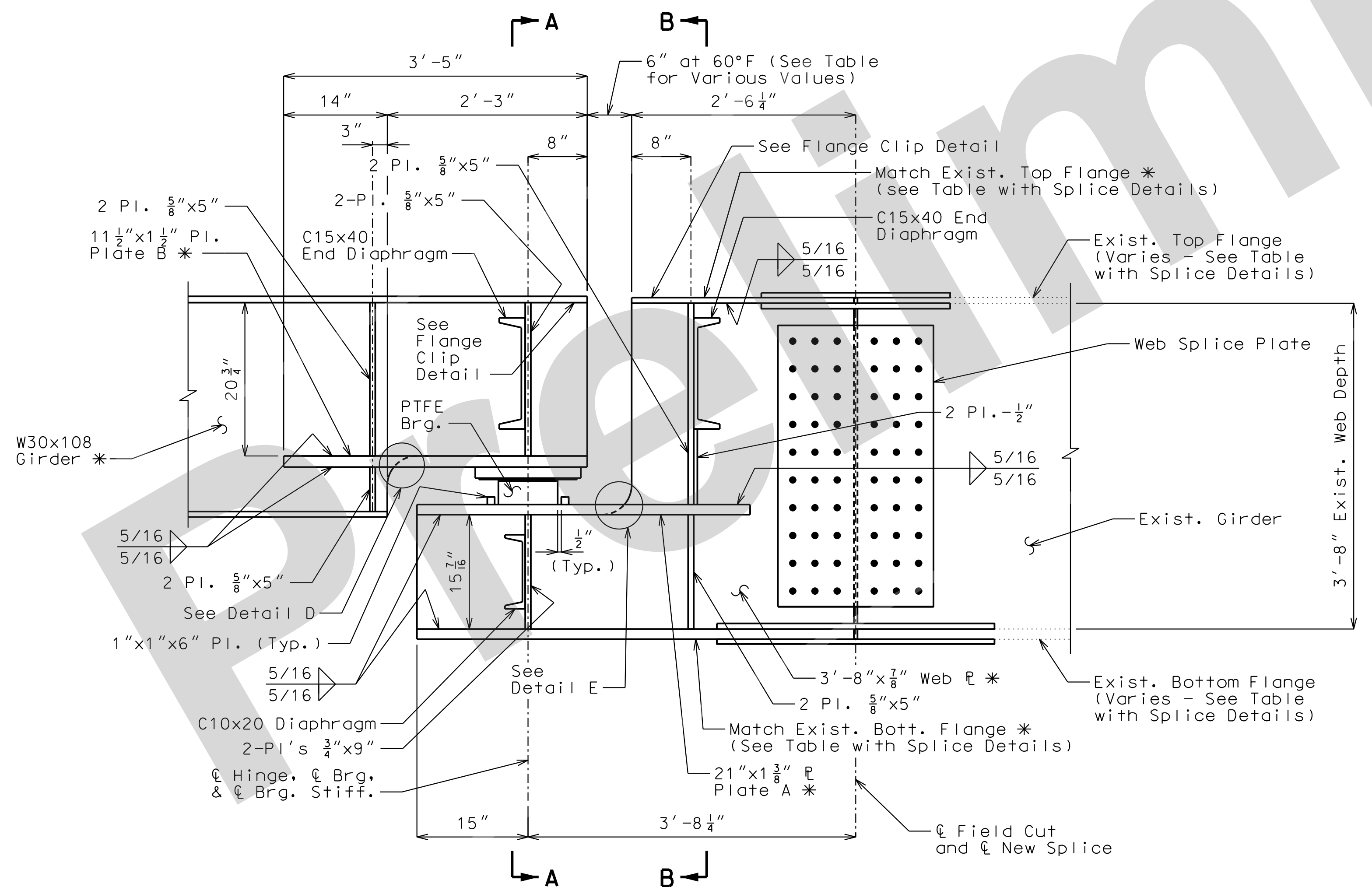
DETAIL D



DETAIL E



TOP FLANGE CLIP DETAIL
(Required at Span 1, Girders 1 and 2 only)

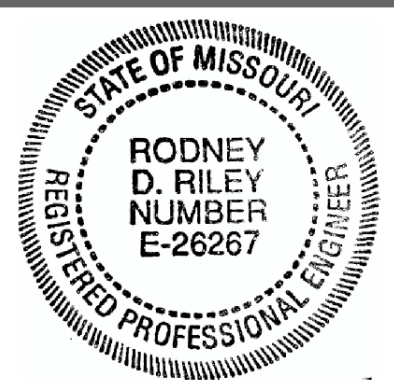


ELEVATION OF HINGE NEAR INTERMEDIATE BENT NO. 2

Notes:
Hinge at Int. Bent No. 7 Similar.
Lateral Restraint Angle not shown for clarity.

* Notch toughness required
Notch toughness required for all flange and web splice plates.

Notes:
For additional steel details not shown, see Sheets No. 7 & 8.
See Sheet No. 9 for PTFE and Laminated Elastomeric Bearing details.
For Strip Seal Expansion Joint details, see Sheets No. 12 and 13.
For Splice Plate details, see Sheet No. 8.
The length of girder removed (from the centerline of the Field Splice to End Bent) is approximately equal to the length of replacement. See Sheet No. 10 for girder elevation and length of replacement.
The cost of removing existing steel and bearings will be considered completely covered by the lump sum cost for Partial Removal of Existing Structural Steel.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

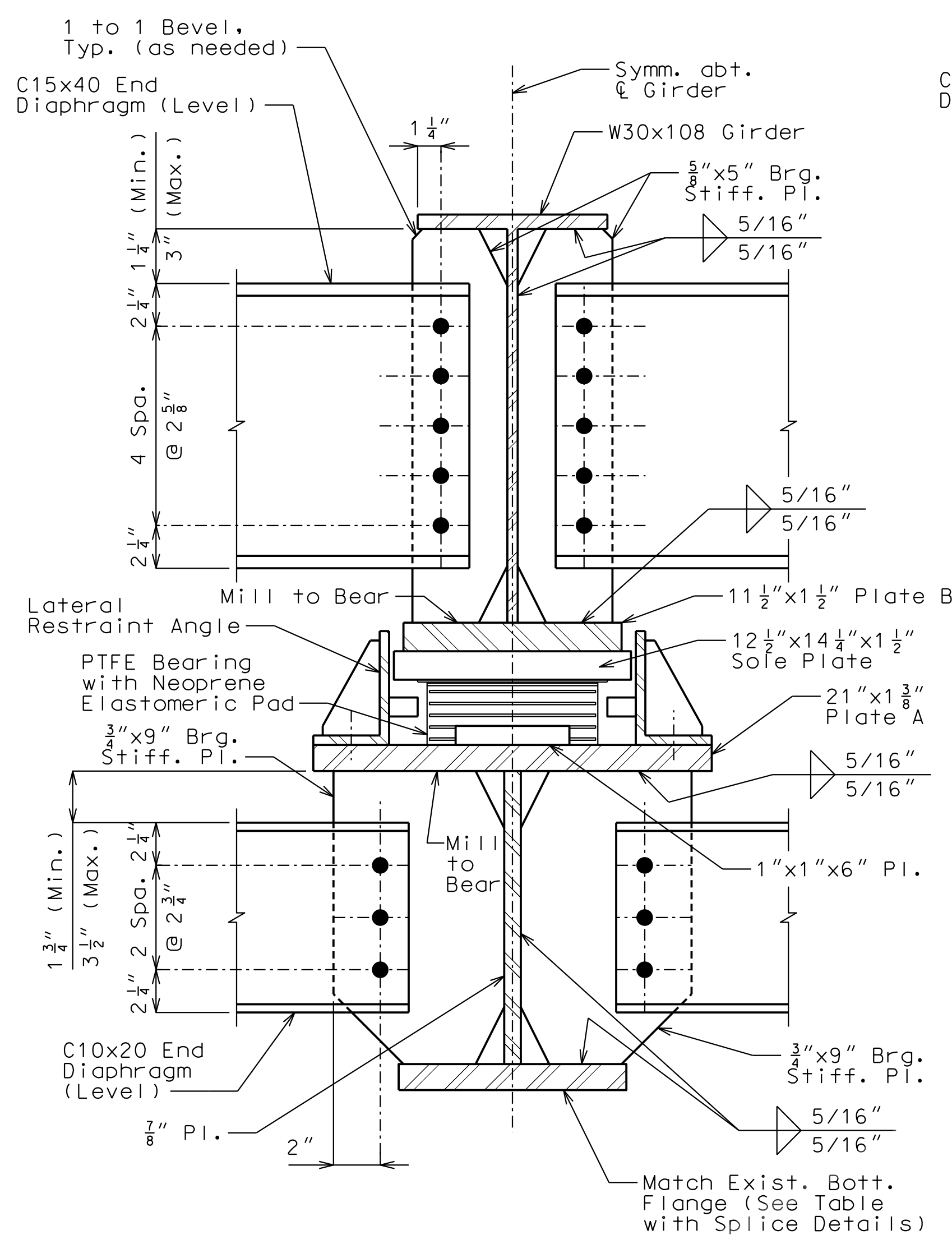
JACOBS GROUP

901 NORTH BROADWAY

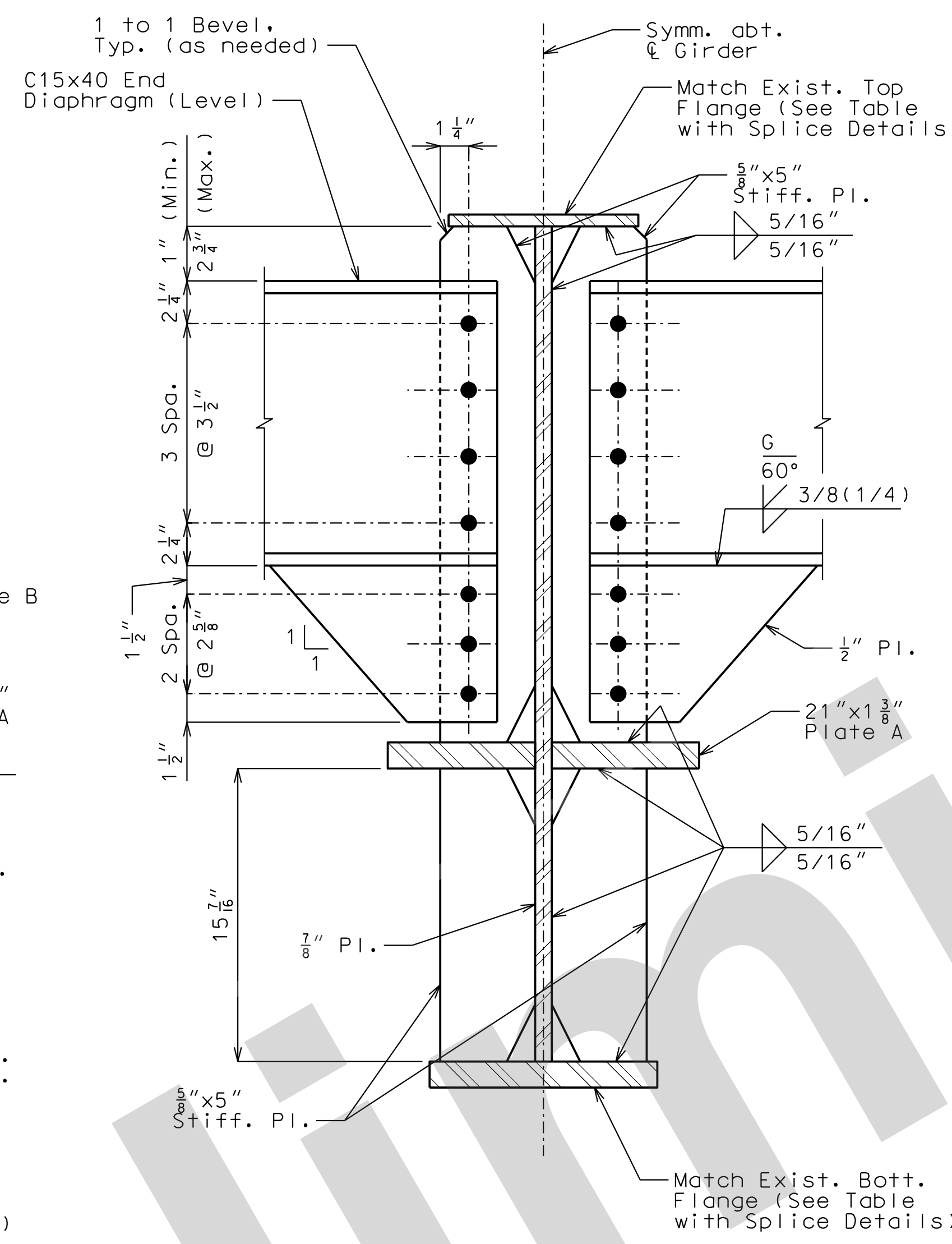
ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



SECTION A-A



SECTION B-B

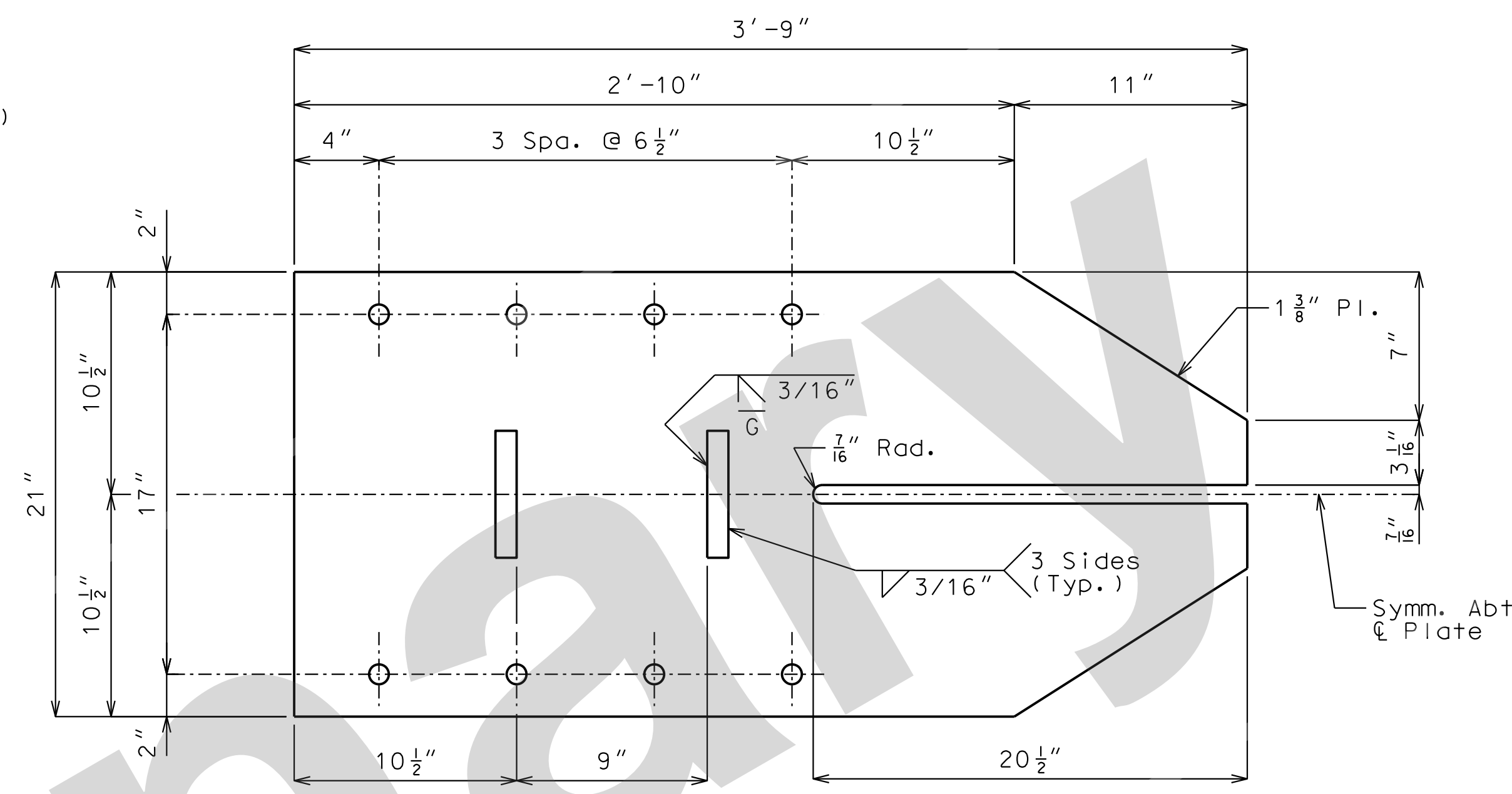


PLATE A DETAIL

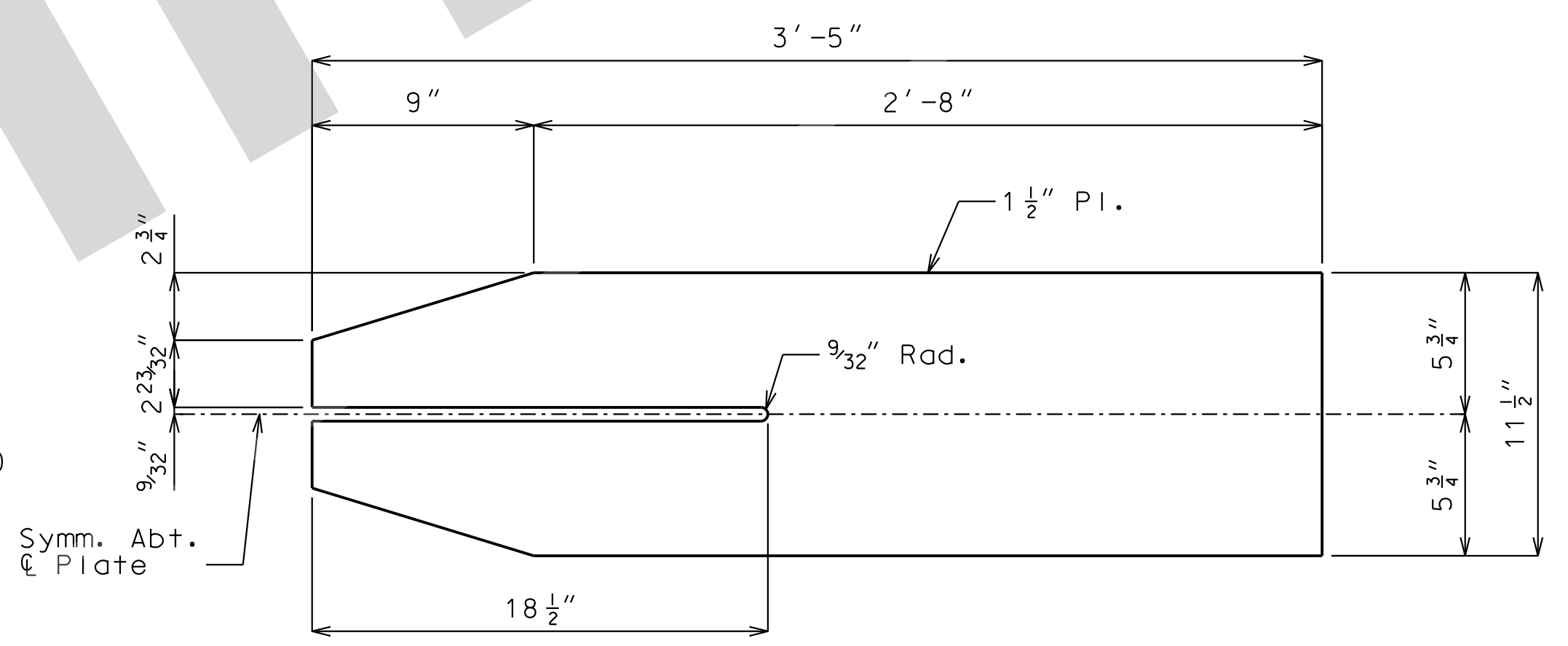
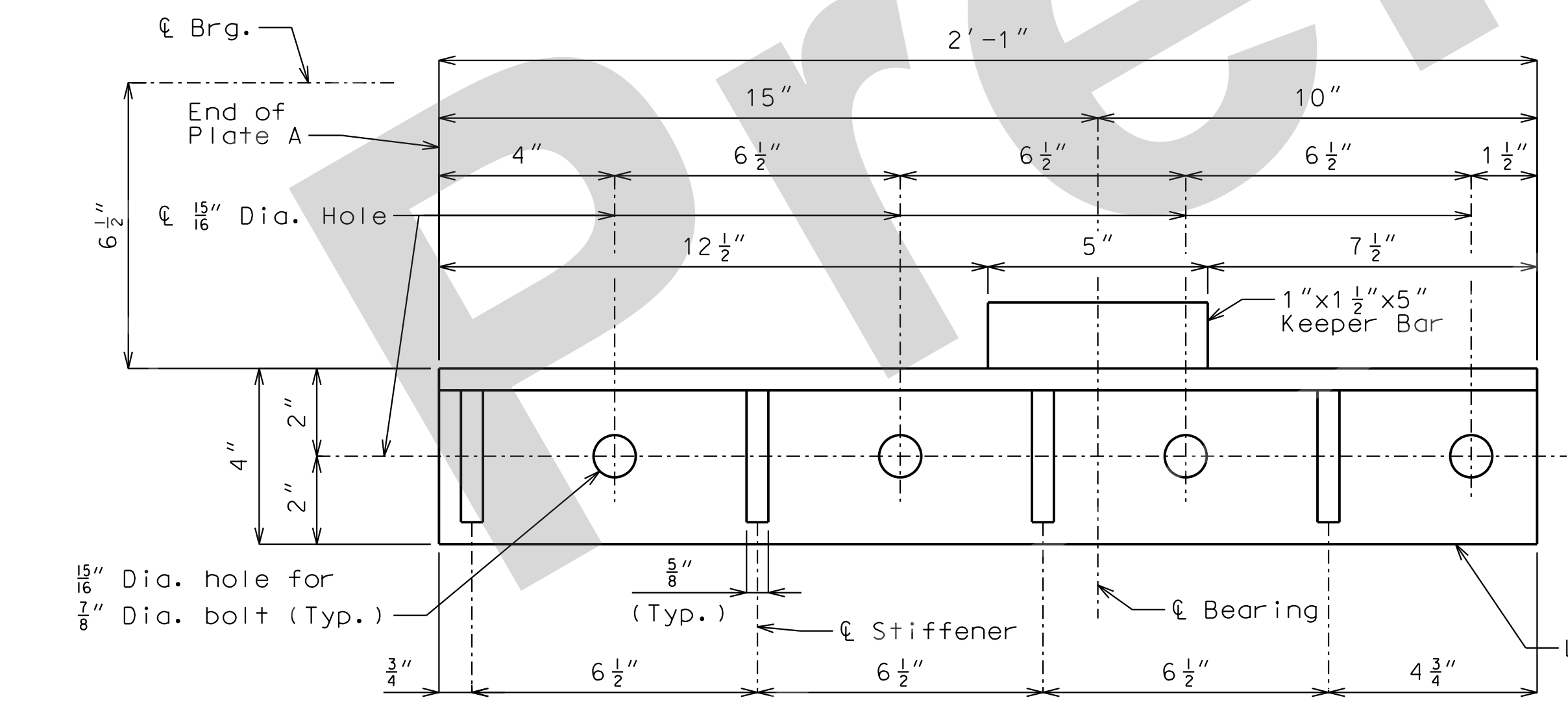


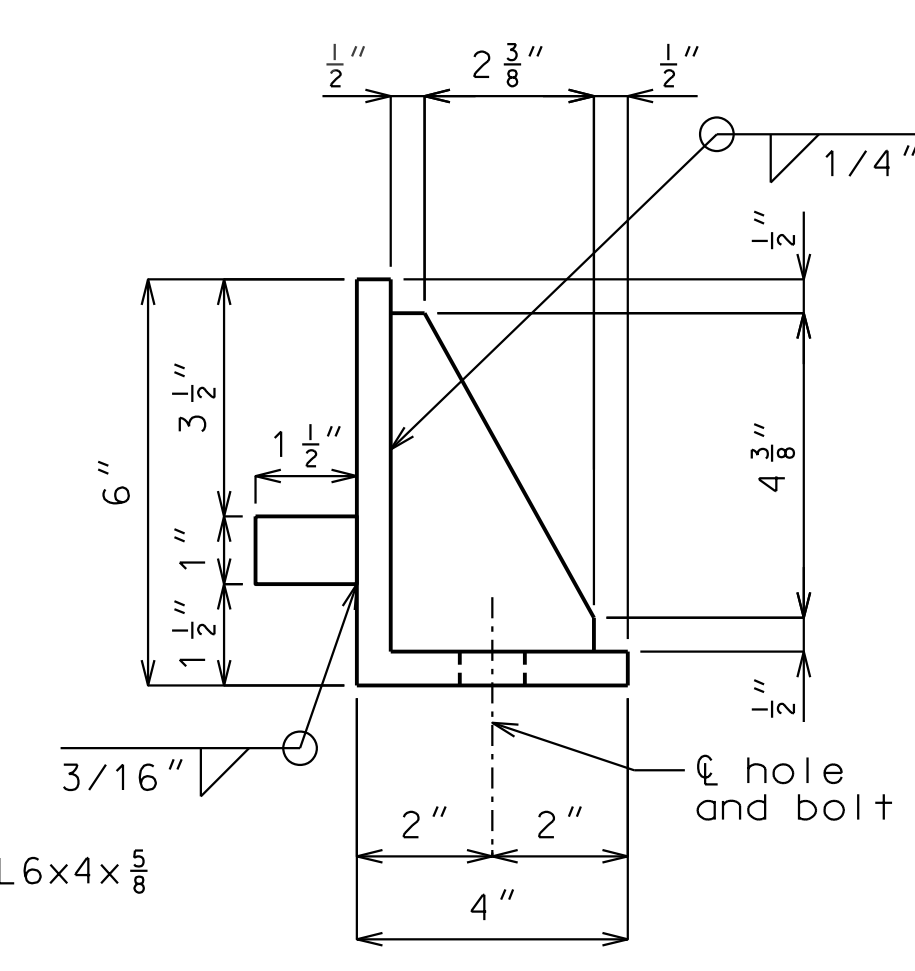
PLATE B DETAIL



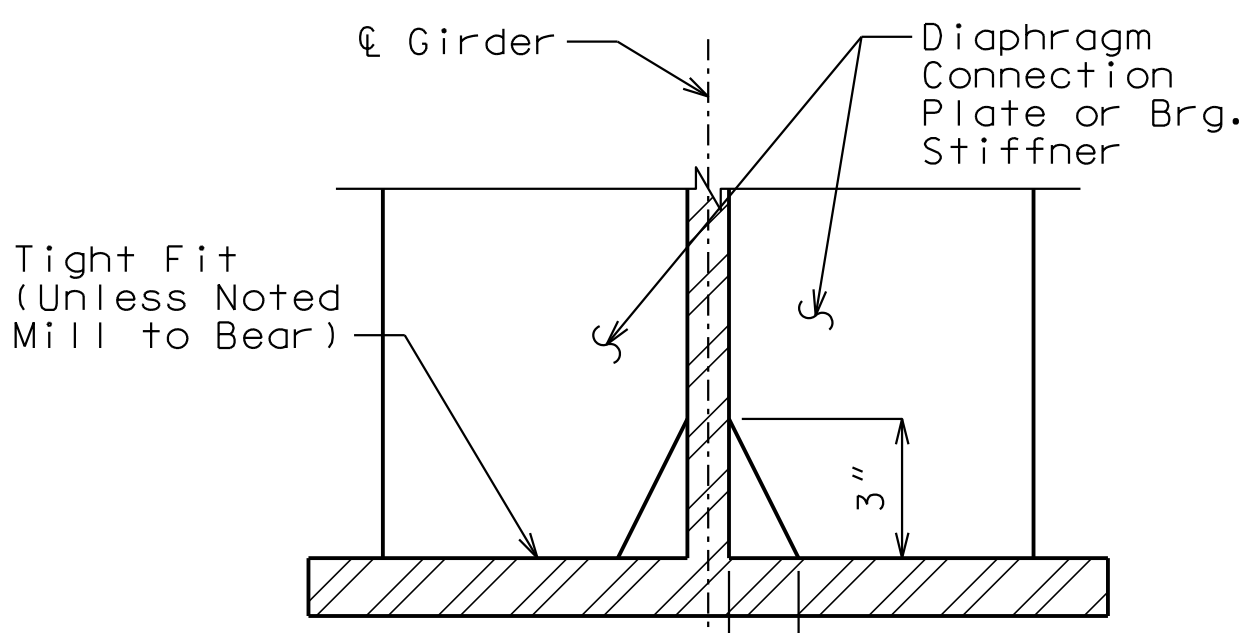
PLAN

Note: Lateral Restraint on other side of Bearing not shown, but similar and opposite hand.

LATERAL RESTRAINT DETAILS



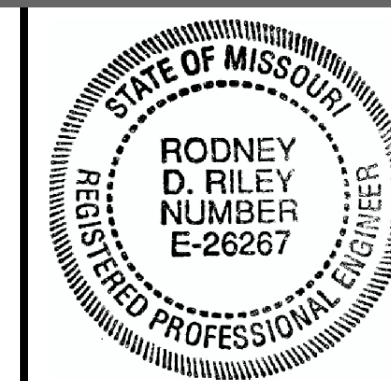
SIDE VIEW



CLIP DETAIL

Notes:

- For Elevation of Hinge detail, see Sheet No. 6.
- See Sheet No. 9 for PTFE and Laminated Elastomeric Bearing details.
- For Strip Seal Expansion Joint details, see Sheets No. 12 and 13.
- For Splice Plate details, see Sheet No. 8.
- All bolts used in end diaphragm connections shall be 3/4" Dia. ASTM F3125 Grade A325 Type 1 in 13/16" Dia. holes.
- All bolts used in lateral restraint shall be 7/8" Dia. ASTM F3125 Grade A325 Type 1 in 15/16" Dia. holes.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 8

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

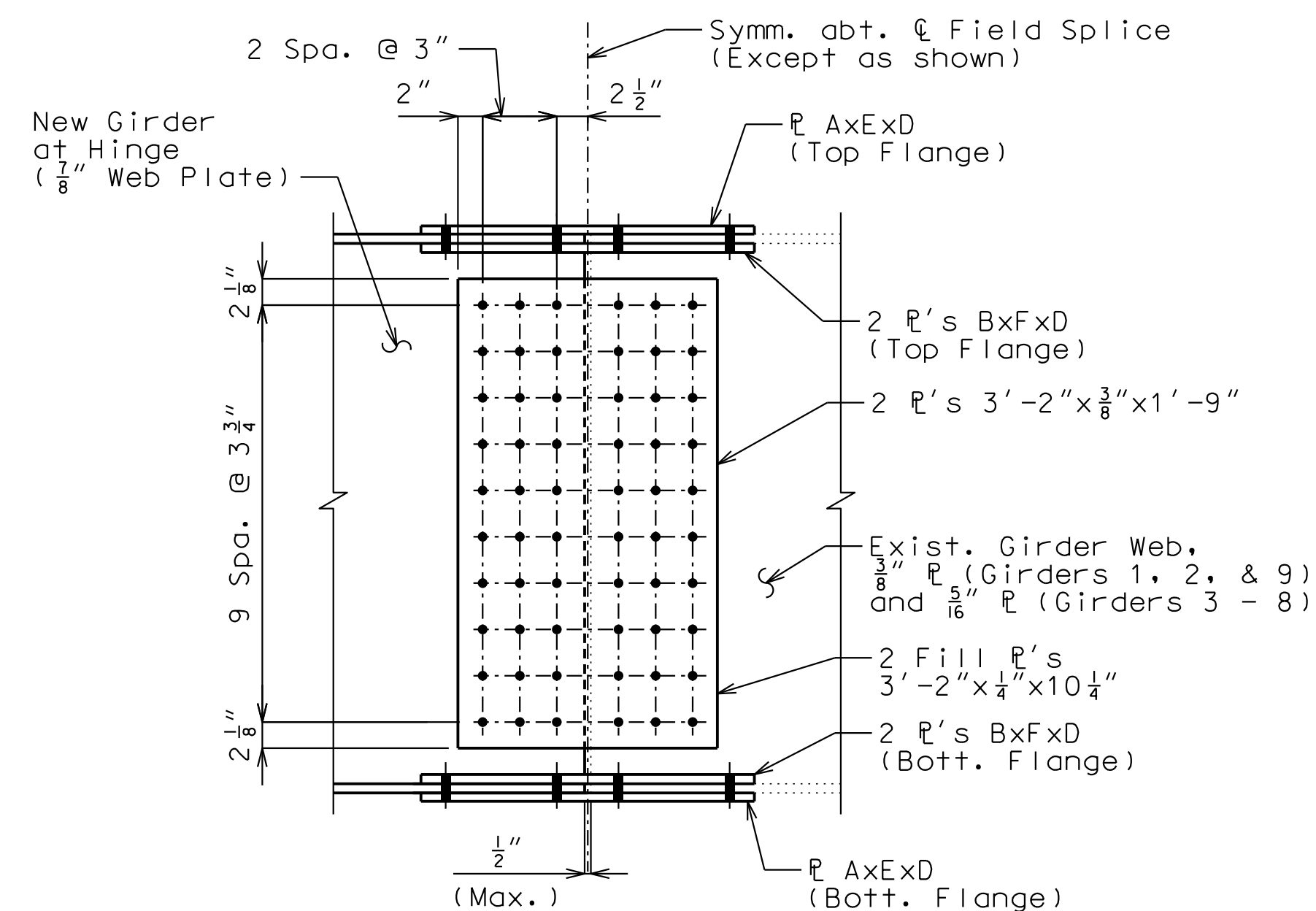
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

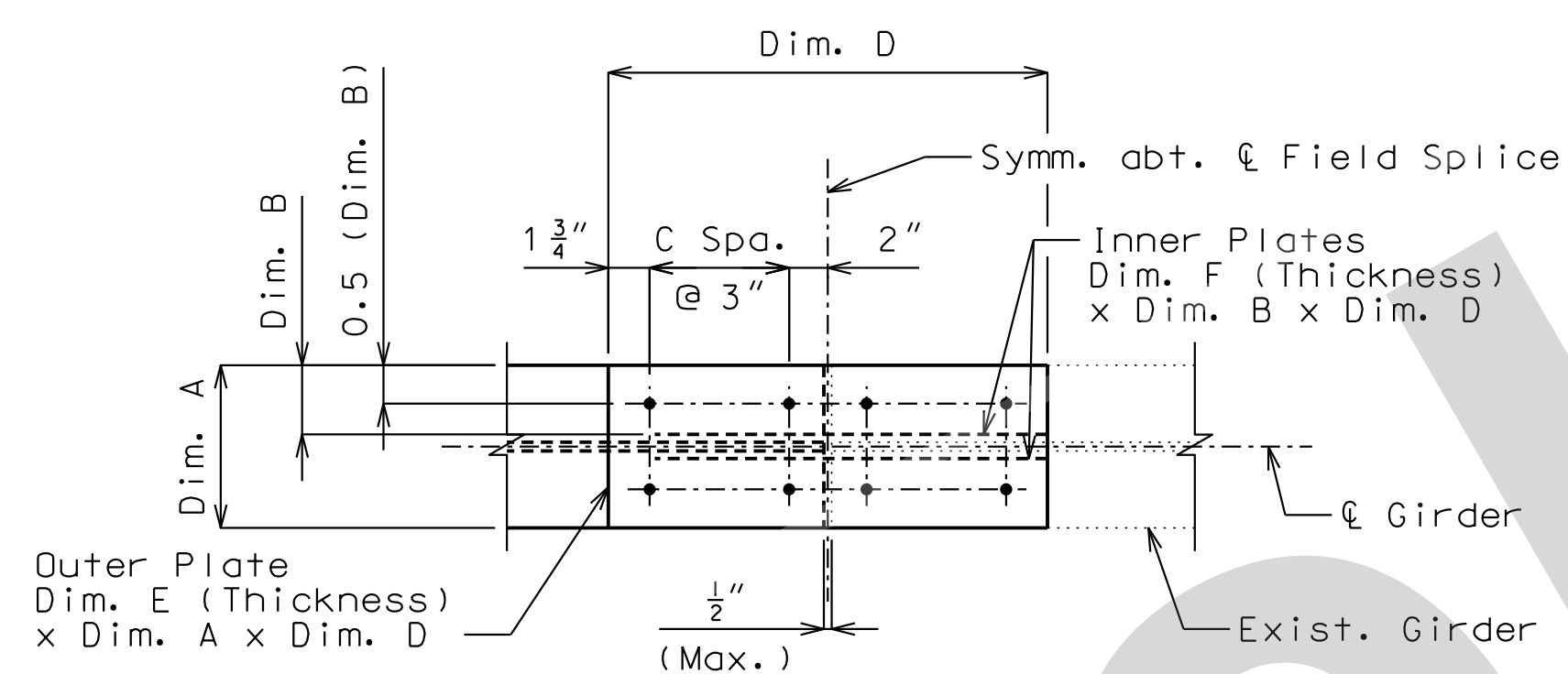
JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

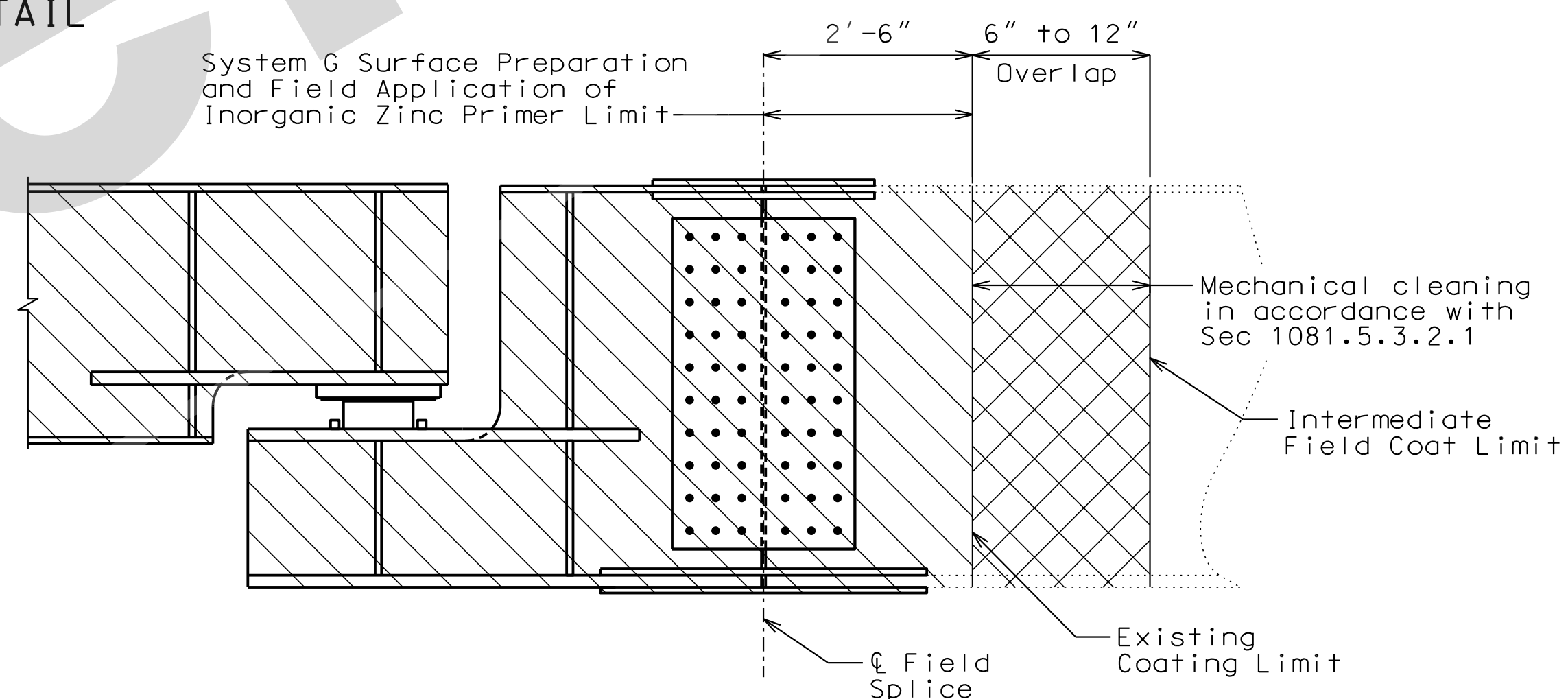
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BOLTED FIELD SPLICE WEB DETAIL



BOLTED FIELD SPLICE FLANGE DETAIL (TOP AND BOTTOM)



PART ELEVATION SHOWING LIMITS OF PAINT OVERLAP

(Vertical and horizontal paint limit. Horizontal limit shown.)

Applicable Girders		Existing Flange		Outer Plate		Inner Plates (2)		Total # of Bolts (per side)	C Spaces	Dim. D
Span 1	Span 7	b_f (in)	t_f (in)	Dim. A	Dim. E	Dim. B	Dim. F			
1, 2, & 9	1, 2, & 9	10	3/4	10	3/8	4	1/2	8	3	2'-1 1/2"
3 to 8	N/A	10	5/8	10	3/8	4	1/2	8	3	2'-1 1/2"
N/A	3 to 8	12	1/2	12	3/8	5	1/2	8	3	2'-1 1/2"

Applicable Girders		Existing Flange		Outer Plate		Inner Plates (2)		Total # of Bolts (per side)	C Spaces	Dim. D
Span 1	Span 7	b_f (in)	t_f (in)	Dim. A	Dim. E	Dim. B	Dim. F			
N/A	1, 2, & 9	12	1	12	1/2	5	5/8	12	5	3'-1 1/2"
3 to 8	3 to 8	10	5/8	10	3/8	4	1/2	8	3	2'-1 1/2"
1, 2, & 9	N/A	12	1 3/8	12	3/4	5	7/8	12	5	3'-1 1/2"

Notes:
 b_f is the width of the existing flange plate.
 t_f is the thickness of the existing flange plate.

Notch toughness required for all web and flange splice plates.

Notes:

For Hinge demolition details and assembly details, see Sheet No. 6.

For Girder Elevation details, see Sheet No. 10.

Bolts shall be 7/8" ϕ ASTM F3125 Grade A325 Type 1 in 15/16" ϕ holes.

Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

Fabricated structural steel for the flange and web splice plates shall be ASTM A709 Grade 50.

Protective Coating: System G in accordance with Sec 1081.

Surface preparation of the existing steel shall be in accordance with Sec 1081 for Recoating of Structural Steel (System G). The cost of surface preparation will be considered completely covered by the contract price per sq. foot for Surface Preparation for Recoating Structural Steel.

Prime Coat (New Steel): The cost of the prime coat will be considered completely covered by the contract unit price for the fabricated structural steel.

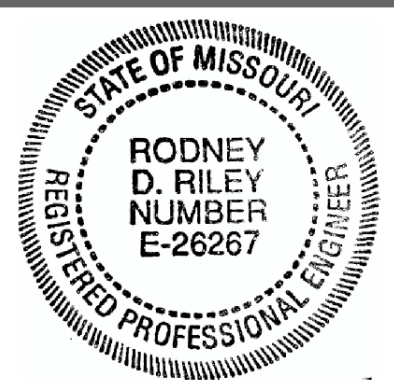
Prime Coat (Existing Steel): The cost of the prime coat will be considered completely covered by the contract price per sq. foot for Field Application of Inorganic Zinc Primer.

Tint of the prime coat for System G shall be similar to the color of the field coat to be used.

At the option of the contractor, the intermediate field coat may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.

Field Coat(s): The color of the field coat(s) shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract price per sq. foot for Intermediate Field Coat (System G).

System G shall overlap the existing coating between 6 inches and 12 inches in order to achieve maximum coverage at the paint limit of each complete system. The intermediate coating shall be masked to provide crisp, straight lines and to prevent overspray beyond the overlap required.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 9

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

1-888-ASK-MODOT (1-888-275-6636)

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1-888-ASK-MODOT (1-888-275-6636)

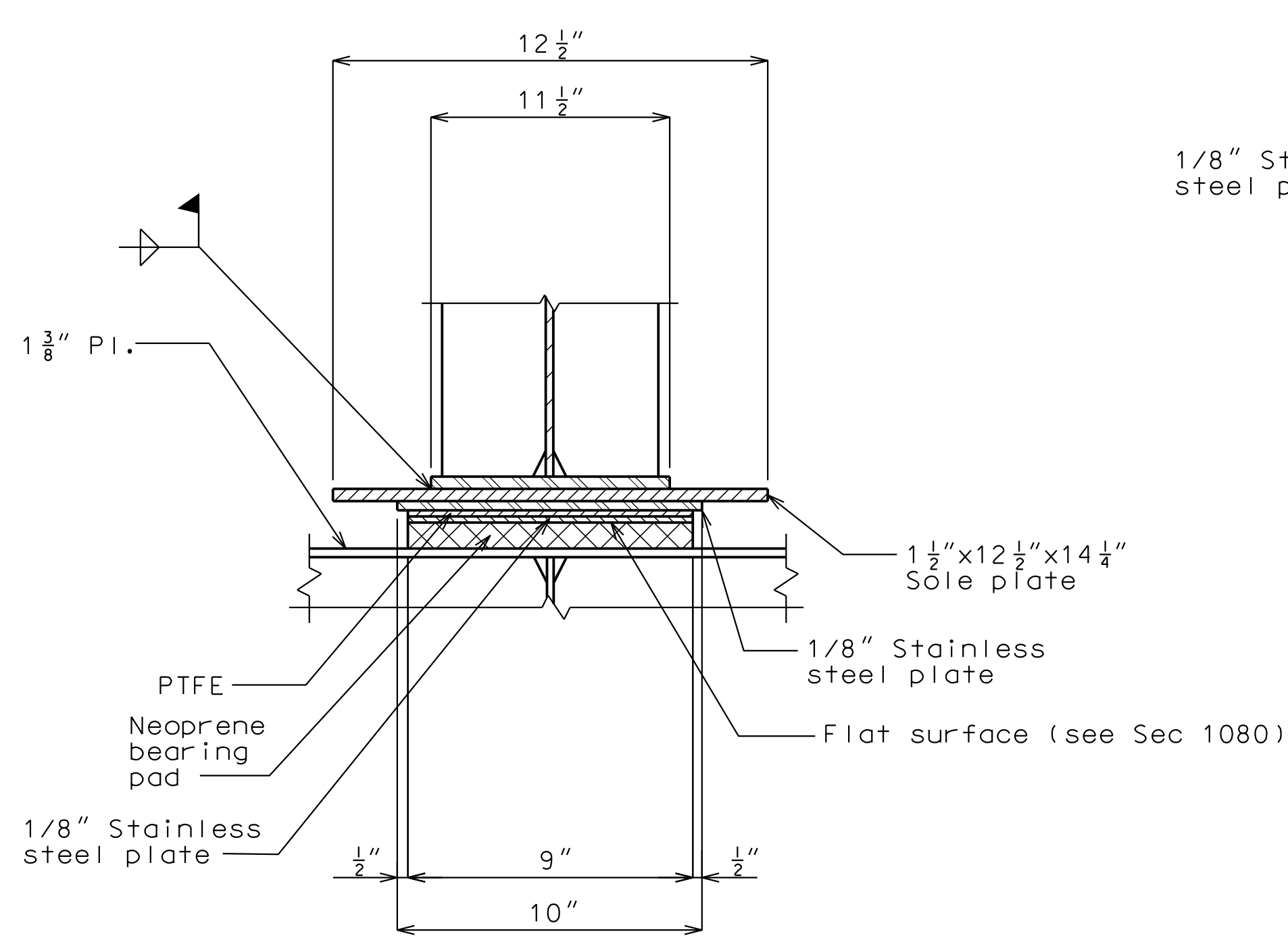
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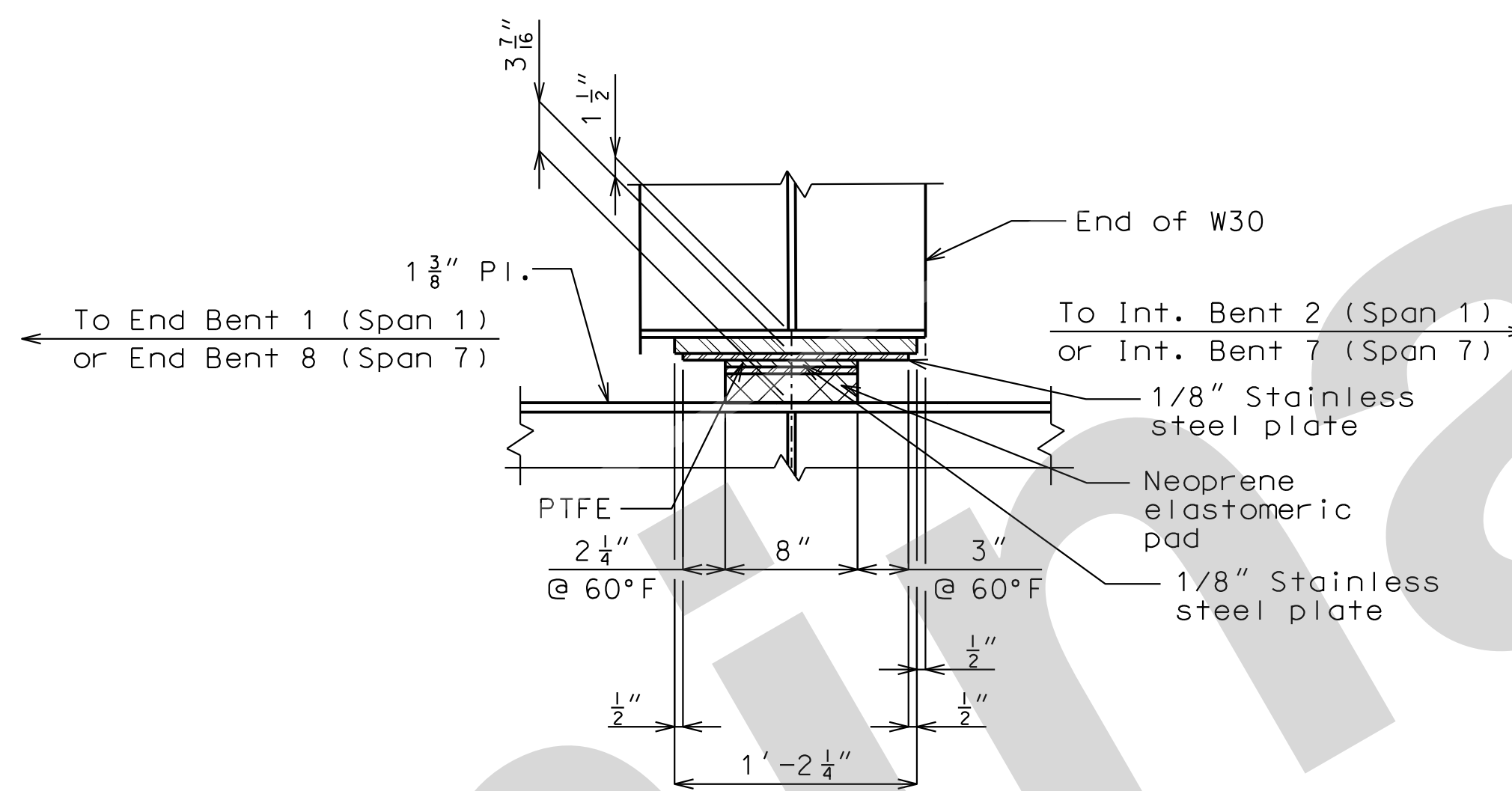
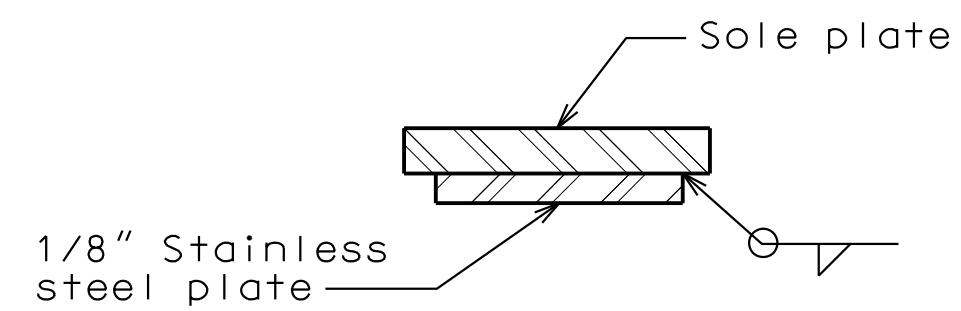
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1-888-ASK-MODOT (1-888-275-6636)



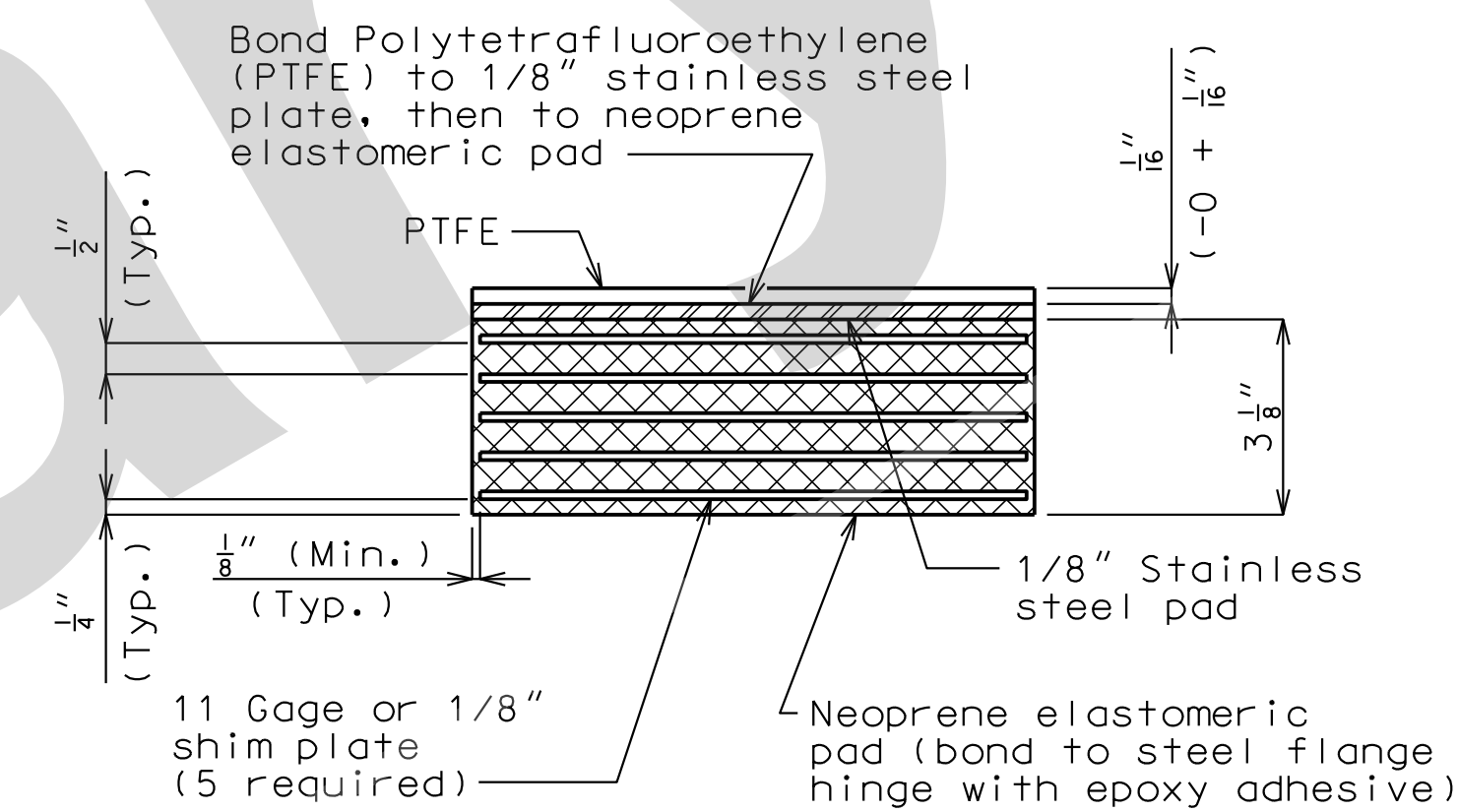
END VIEW

Note: Lateral Restraint Angle not Shown.



SIDE VIEW

Note: 1"x1"x6" Plate (Keeper Bar) not shown.



NEOPRENE ELASTOMERIC PAD

GENERAL NOTES:

Design coefficient of friction equals 0.06.

Neoprene Elastomeric Pads shall be 70 Durometer.

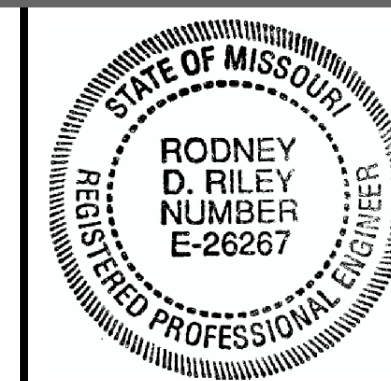
Structural steel for sole plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum. The stainless steel plate shall be protected from any coating.

Type N PTFE Bearings shall be in accordance with Sec 716.

PTFE surface shall be fabricated as a single piece. Splicing will not be permitted.

The neoprene pads shall be bonded to the steel flange of the hinge with an epoxy adhesive, in accordance with the bearing manufacturer's recommendations for bonding neoprene to steel to prevent sliding.

The bottom face of the 1/8" stainless steel plate that is welded to the sole plate shall be lubricated with a lubricant that is approved by the bearing manufacturer.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

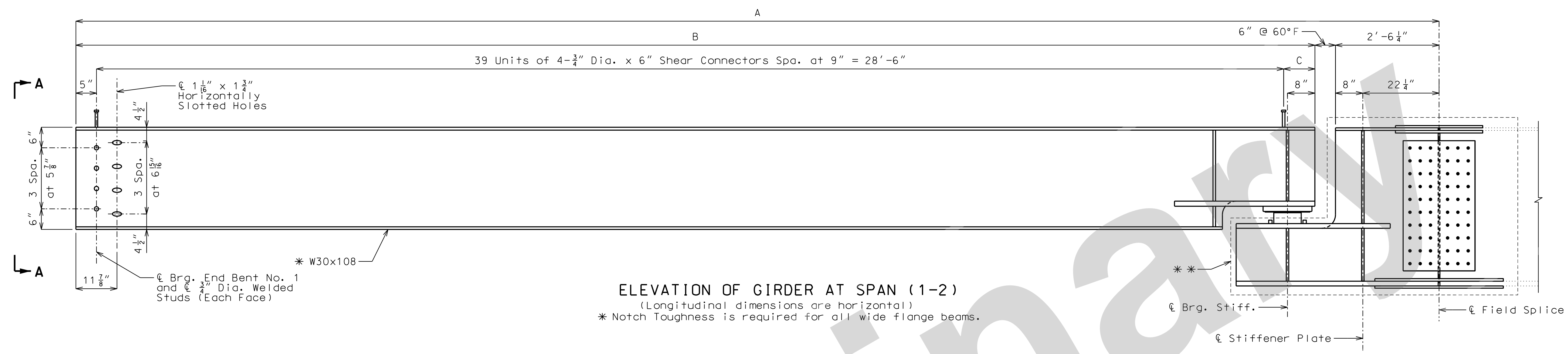
1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP

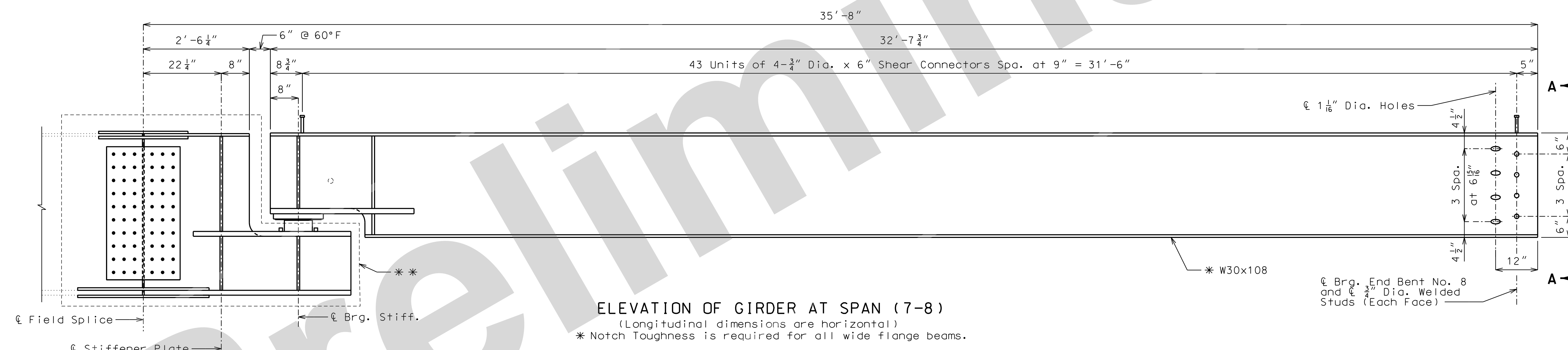
ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.

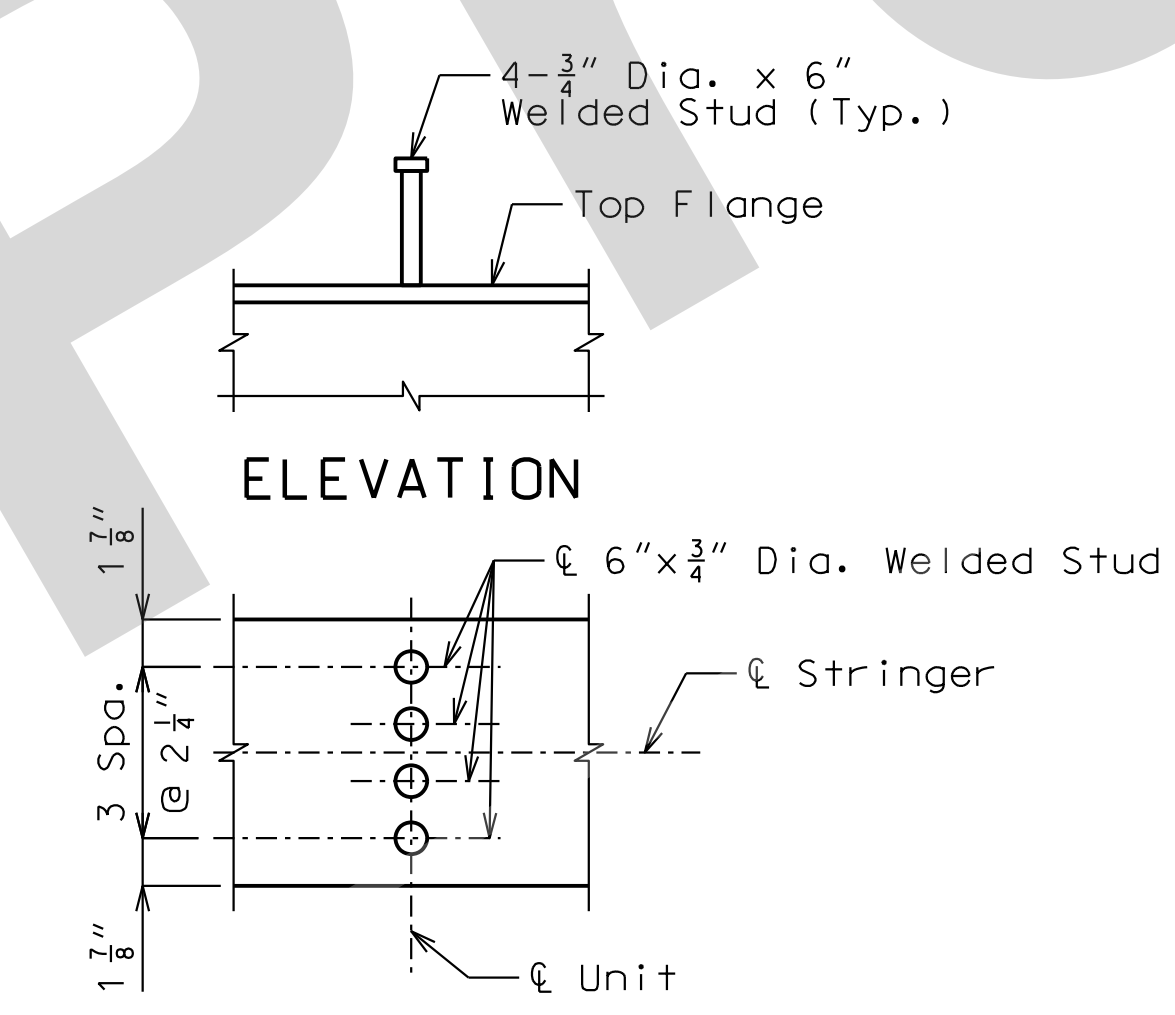


ELEVATION OF GIRDER AT SPAN (1-2)
(Longitudinal dimensions are horizontal)
* Notch Toughness is required for all wide flange beams.



ELEVATION OF GIRDER AT SPAN (7-8)
(Longitudinal dimensions are horizontal)
* Notch Toughness is required for all wide flange beams.

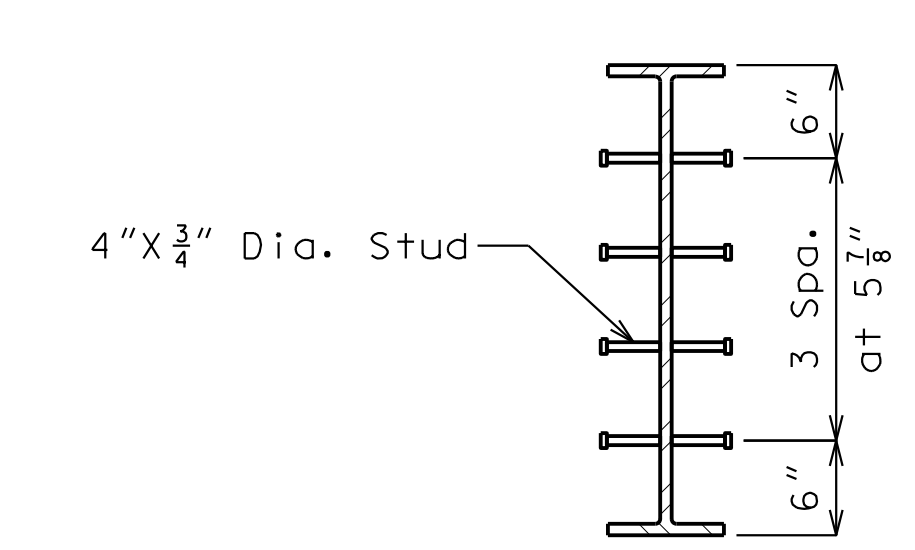
** The cost of flange plates, web plates, splice plates and stiffeners required to extend the existing girders, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Low Alloy Steel (Misc.). The cost of the remainder of structural steel, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50.



PLAN OF STUD CONN.

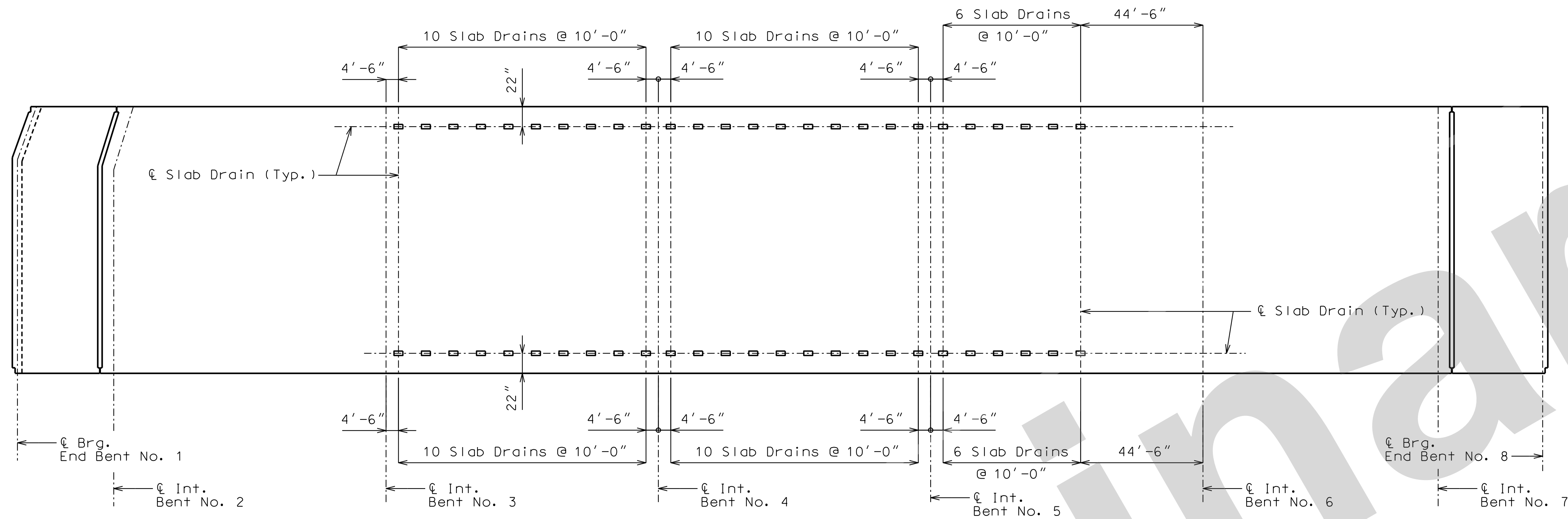
Note: Weight of 2,598 lbs. of shear connectors is included in the weight of Fabricated Structural Low Alloy Steel (I-Beam).

Girder Number	Dim. A	Dim. B	Dim. C
1	32' - 10 5/8"	29' - 10 3/8"	11 3/8"
2	33' - 4 1/2"	30' - 4 1/4"	17 1/4"
3	32' - 8"	29' - 7 3/4"	8 3/4"
4	32' - 8"	29' - 7 3/4"	8 3/4"
5	32' - 8"	29' - 7 3/4"	8 3/4"
6	32' - 8"	29' - 7 3/4"	8 3/4"
7	32' - 8"	29' - 7 3/4"	8 3/4"
8	32' - 8"	29' - 7 3/4"	8 3/4"
9	32' - 8"	29' - 7 3/4"	8 3/4"

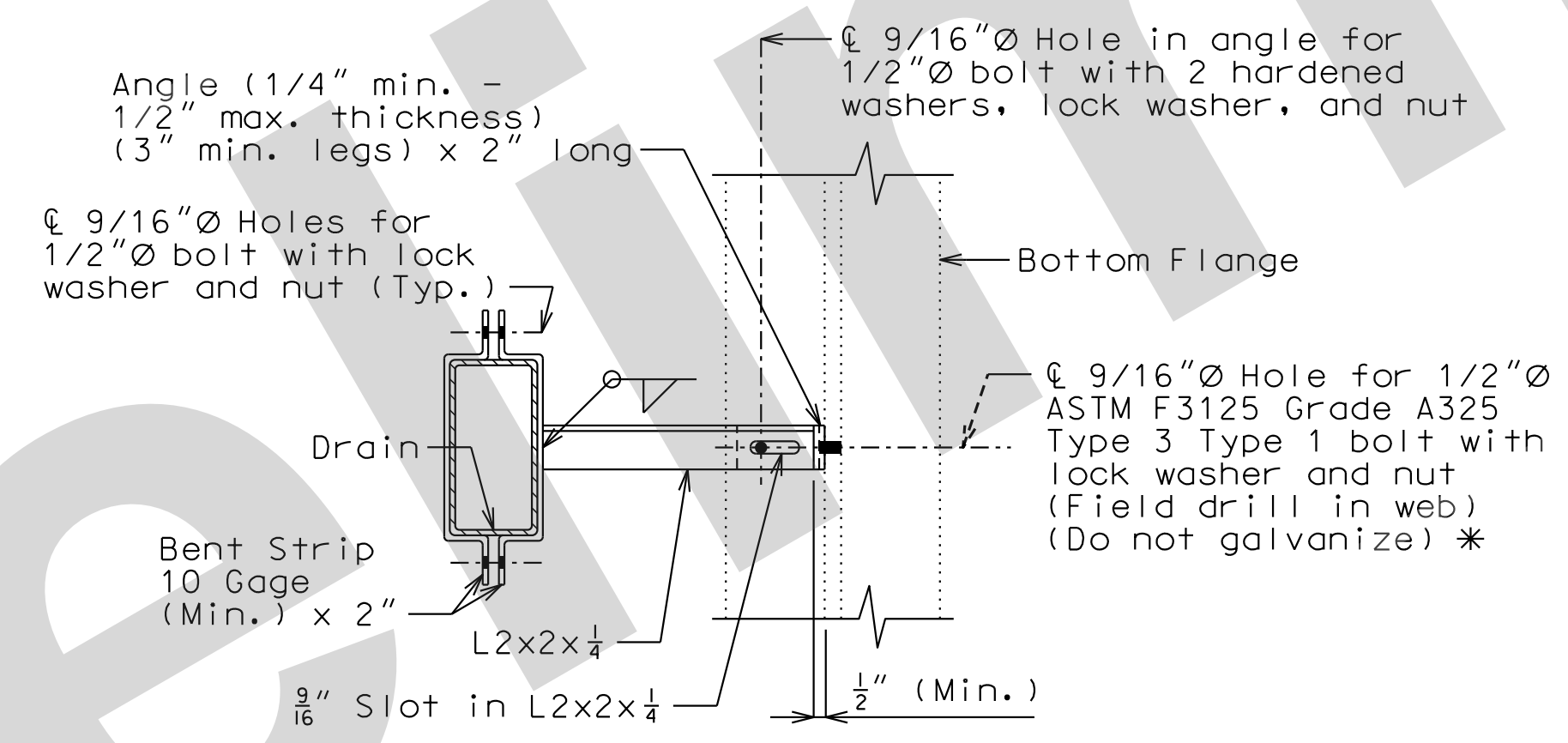


SECTION A-A

Notes:
For Framing Plan, see Sheet No. 5.
For Hinge details, see Sheets No. 6 thru 8.
For Strip Seal Joint details, see Sheets No. 12 & 13.

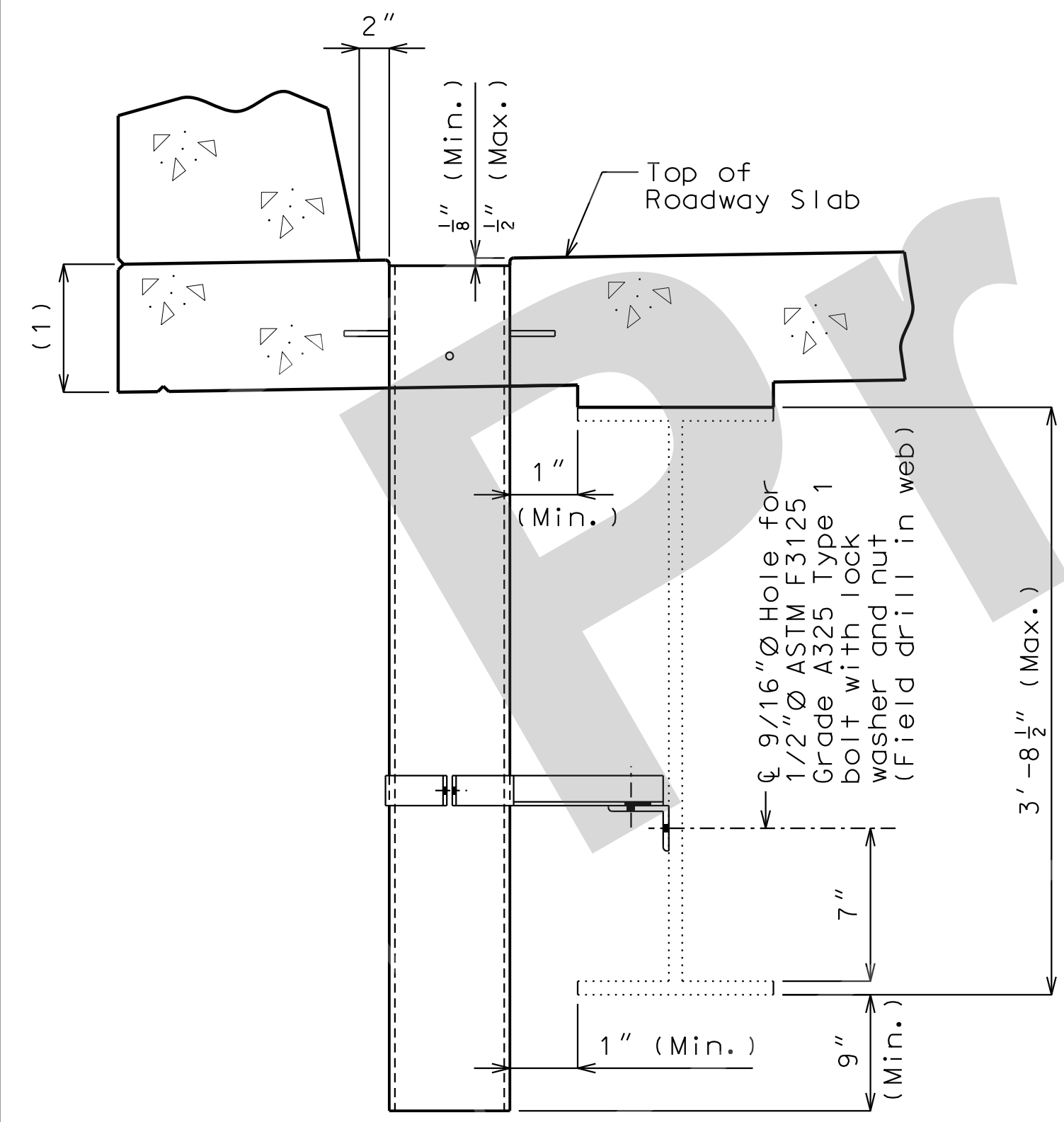


PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS

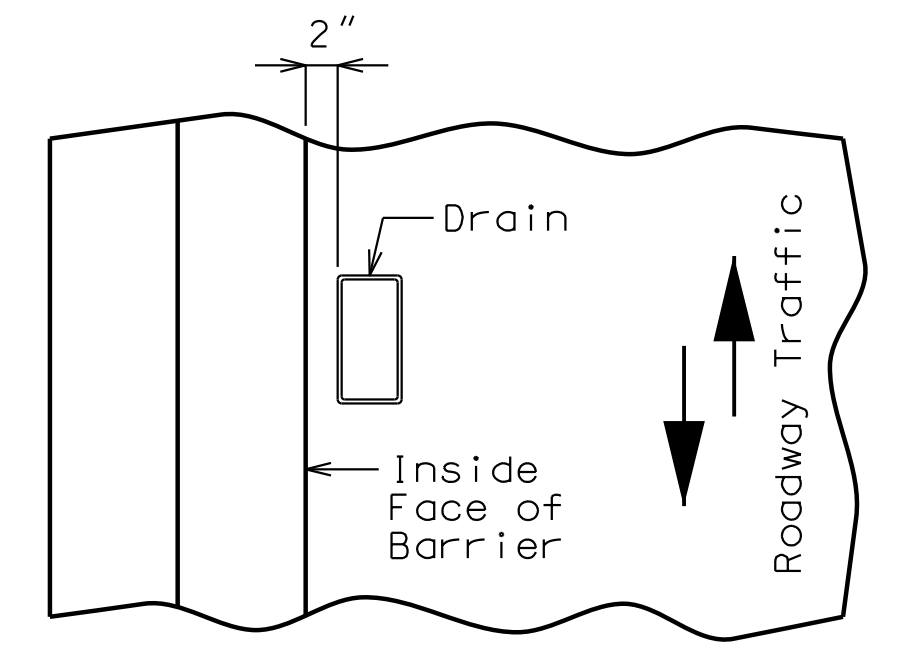


PART SECTION SHOWING BRACKET ASSEMBLY

* See Sec 1080.4

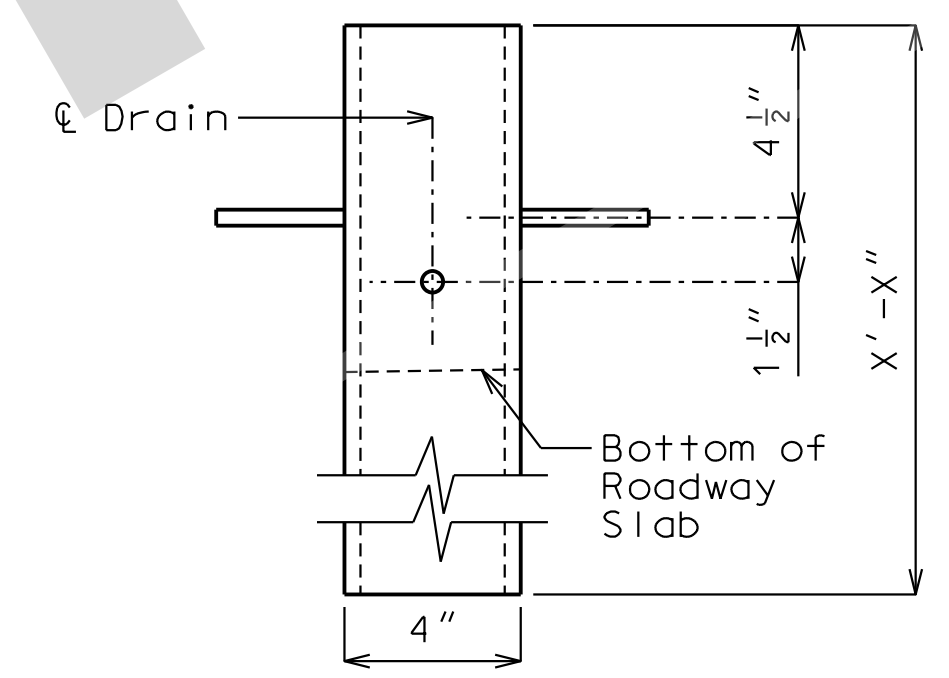


PART SECTION NEAR DRAIN

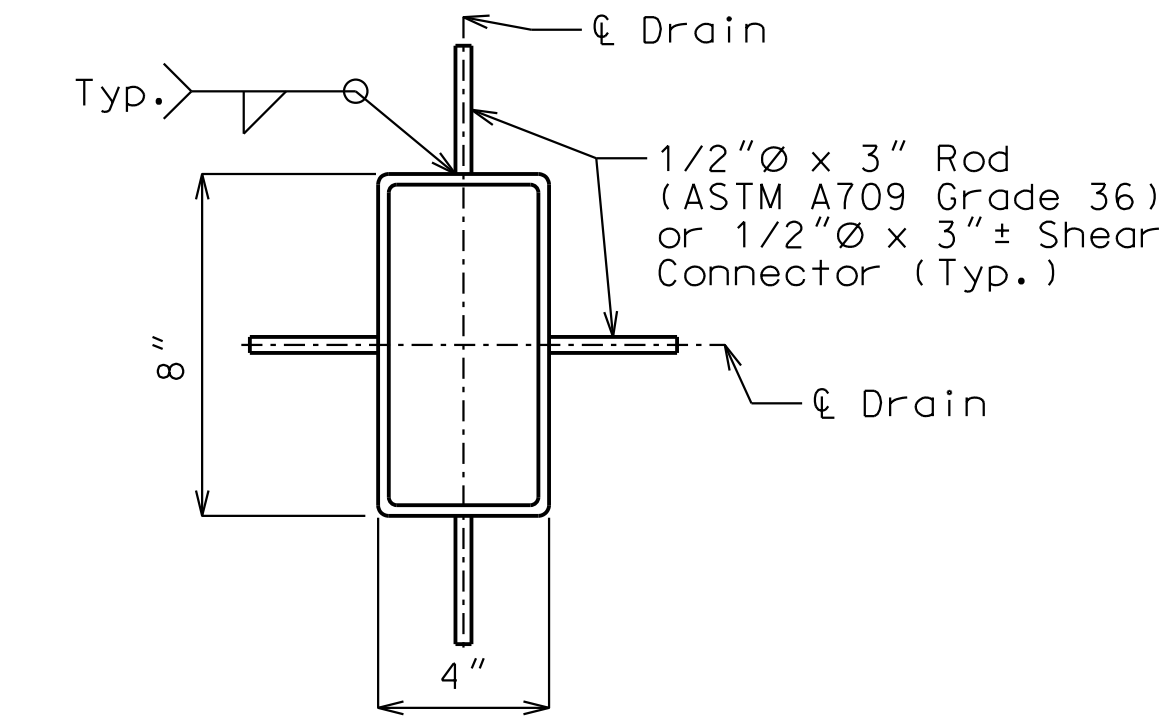


PART PLAN OF SLAB AT DRAIN

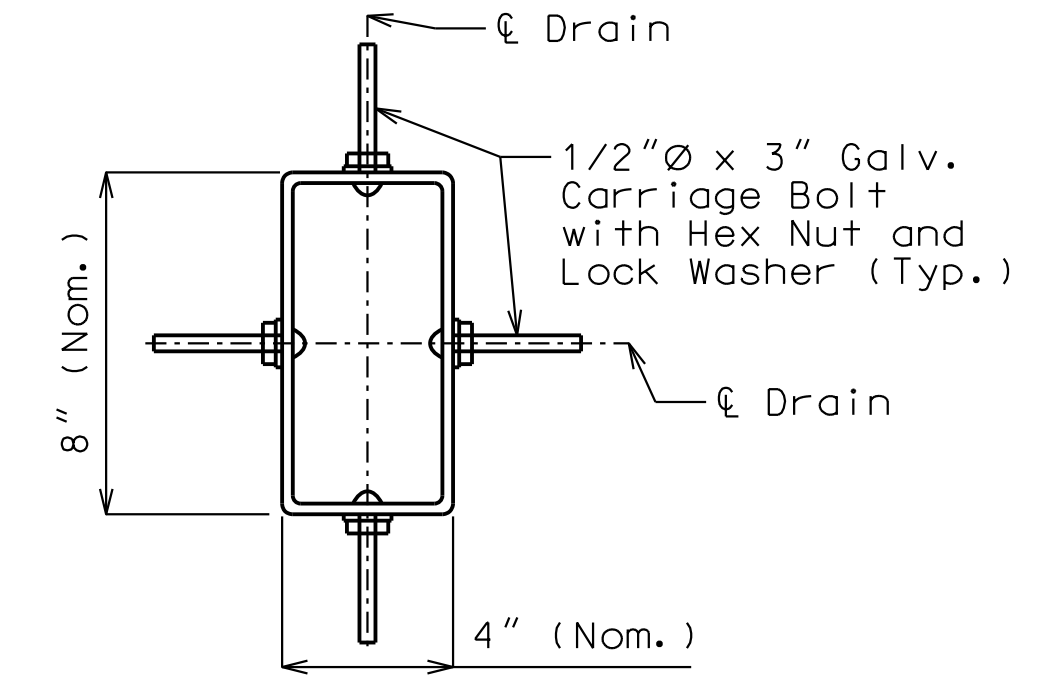
SLAB DRAINS



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION



PLAN OF FRP DRAIN OPTION

General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø bolts shall be ASTM A307, except as shown.

Shop drawings will not be required for the slab drains and the bracket assembly.

The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

(1) See front sheet for slab thickness.

Notes for Steel Drain:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

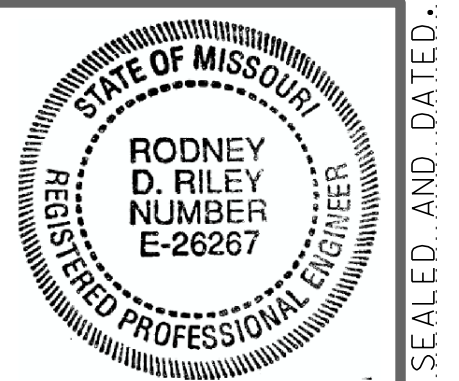
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be recommended by the manufacturer to ensure a smooth, chip free cut.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

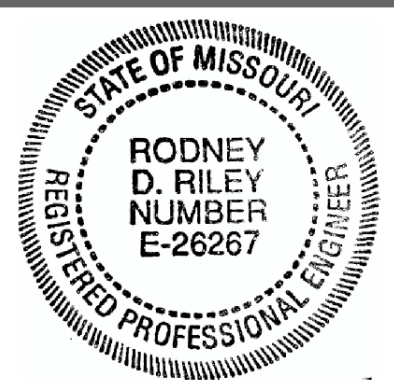
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODDOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP INC. 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 12

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

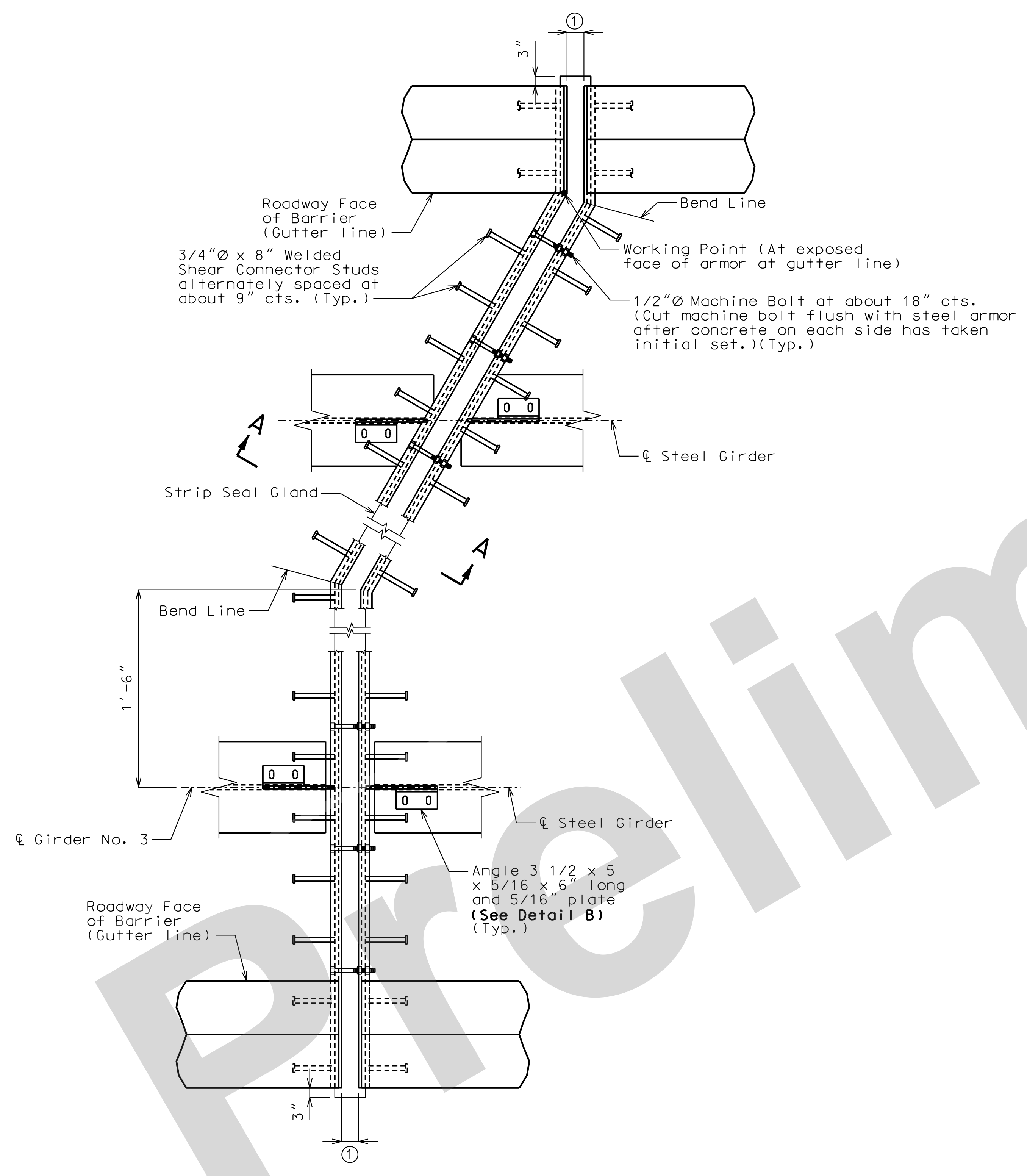
JACOBS ENGINEERING GROUP

ST. LOUIS, MISSOURI 63102-2121

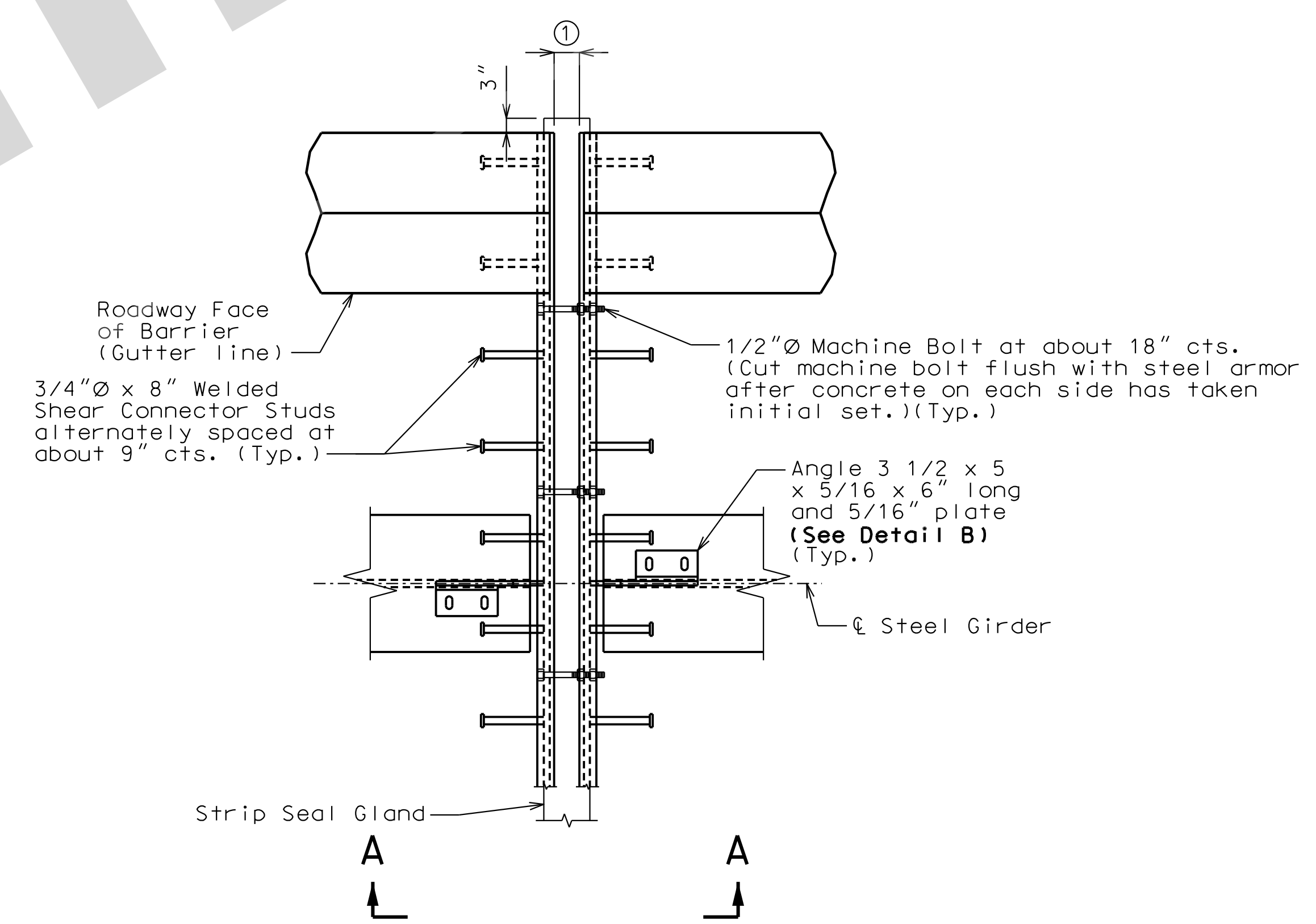
CERTIFICATE OF AUTHORITY #00704

Notes:

For additional Details, Sections and General Notes of Strip Seal System not shown, see Sheet No. 13.



PART PLAN NEAR BENT NO. 2



PART PLAN NEAR BENT NO. 7

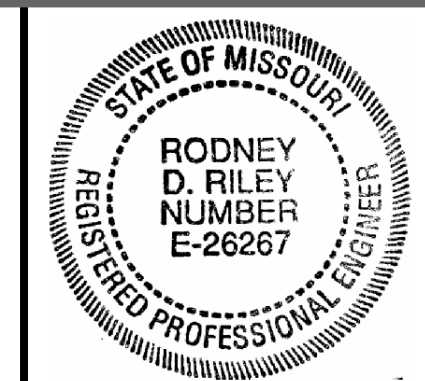
STRIP SEAL EXPANSION JOINT SYSTEM AT INTERMEDIATE BENTS NO. 2 AND 7

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 28

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 13

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

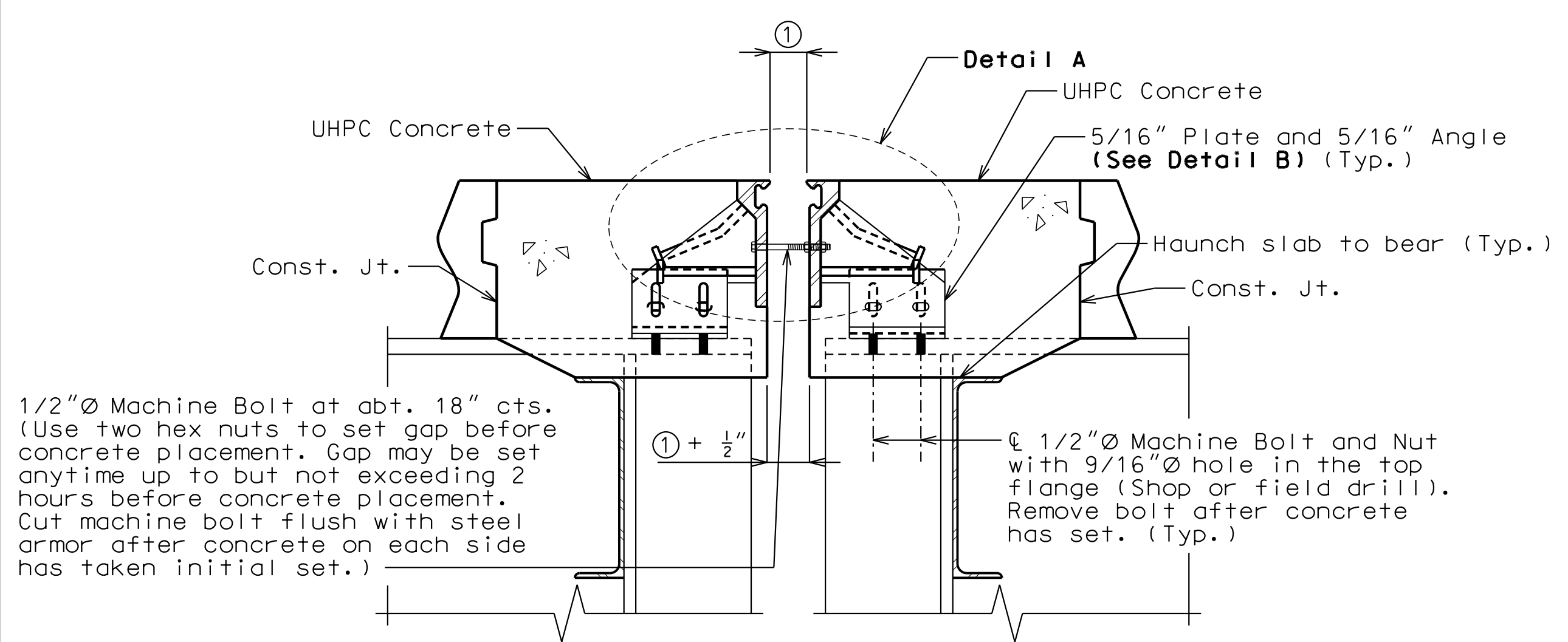
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

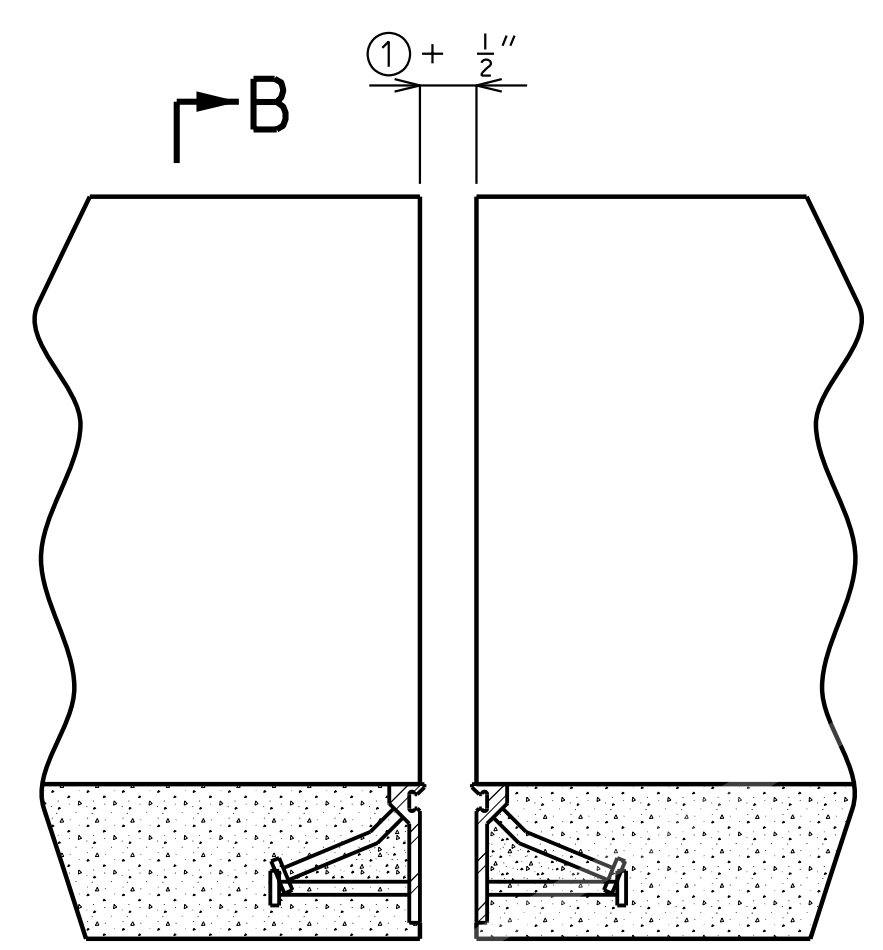
REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



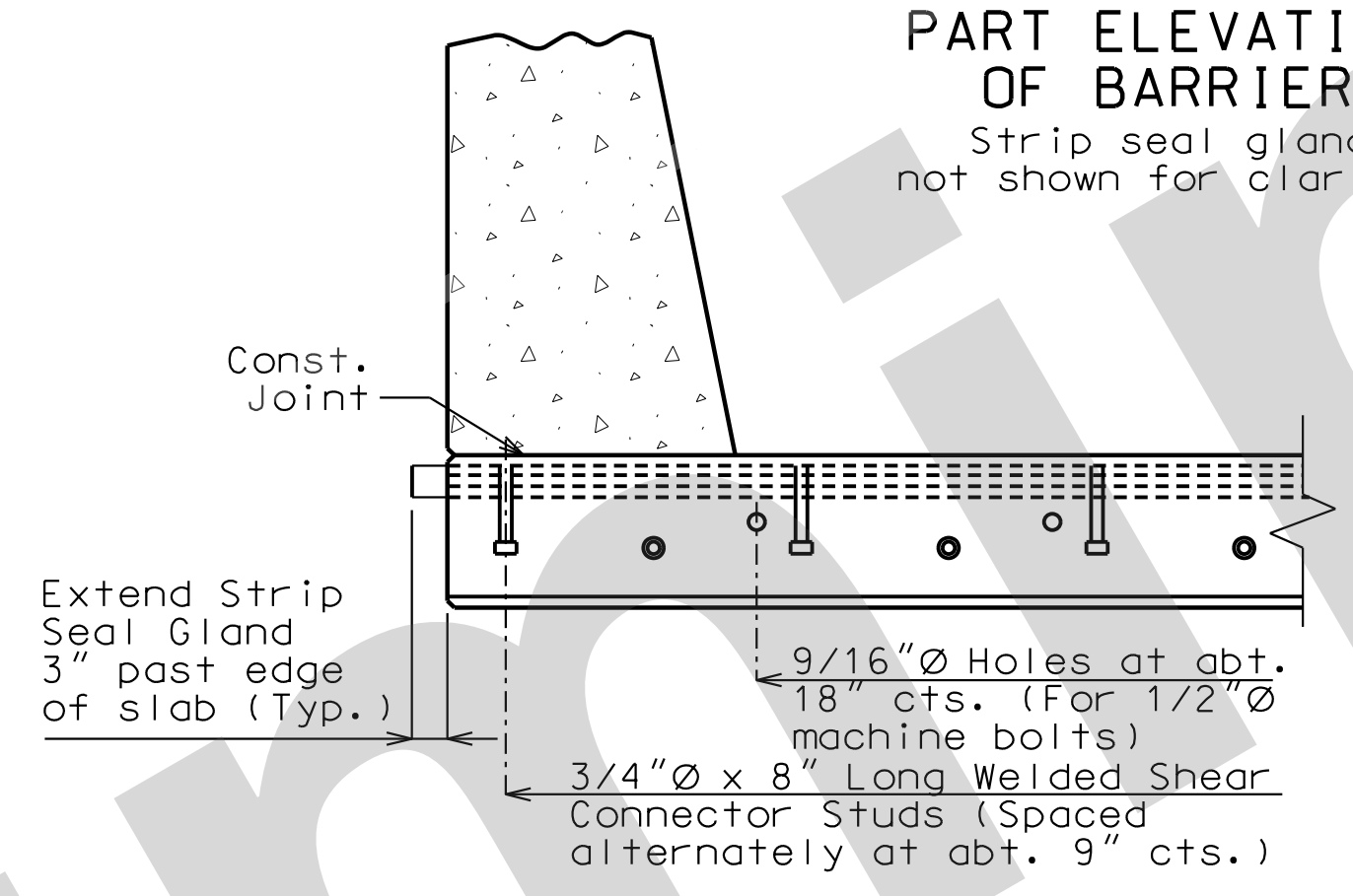
1/2"Ø Machine Bolt at abt. 18" cts. (Use two hex nuts to set gap before concrete placement. Gap may be set anytime up to but not exceeding 2 hours before concrete placement. Cut machine bolt flush with steel armor after concrete on each side has taken initial set.)

SECTION A-A

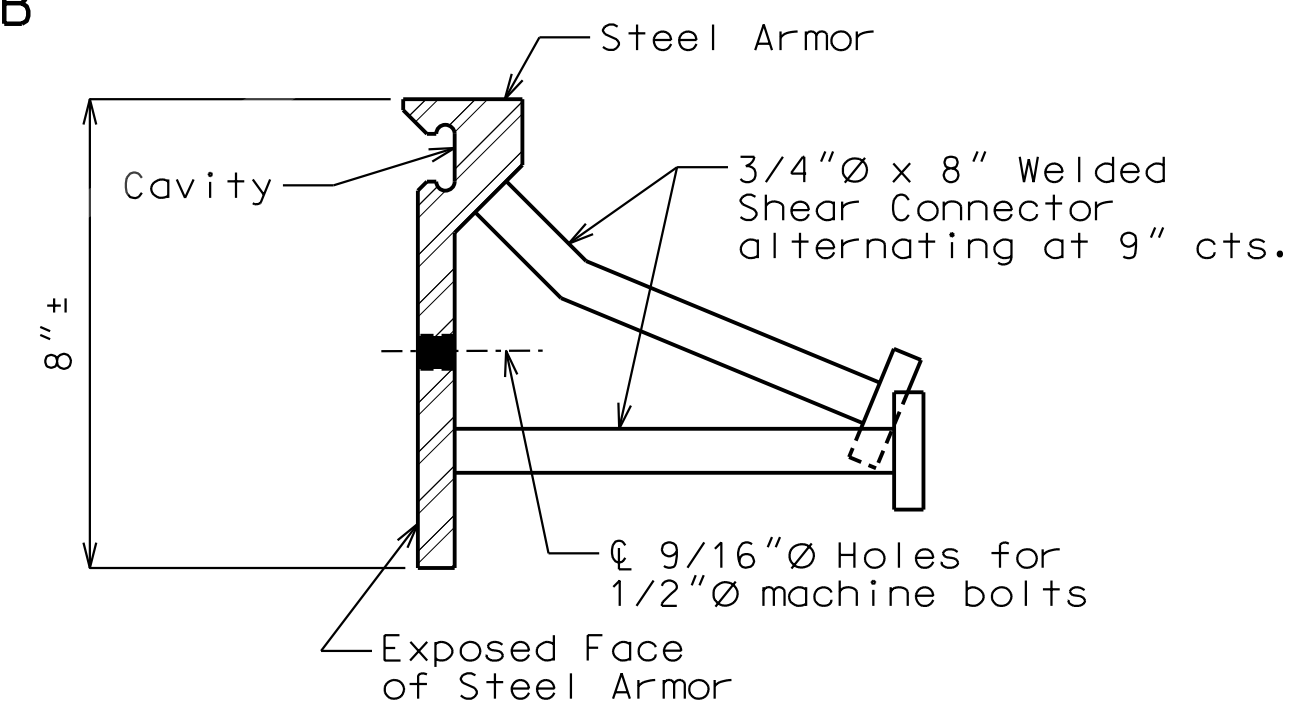
Notes: Strip seal gland not shown for clarity.
Slab reinforcement not shown for clarity.



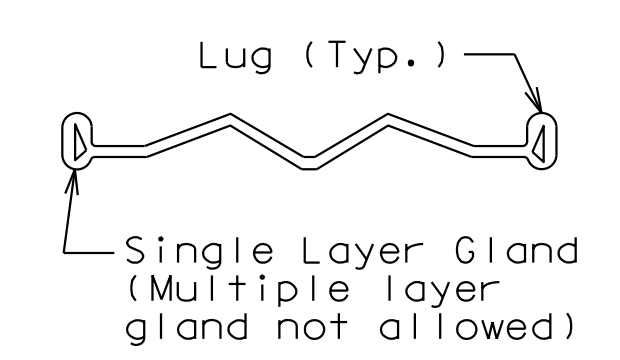
PART ELEVATION OF BARRIER



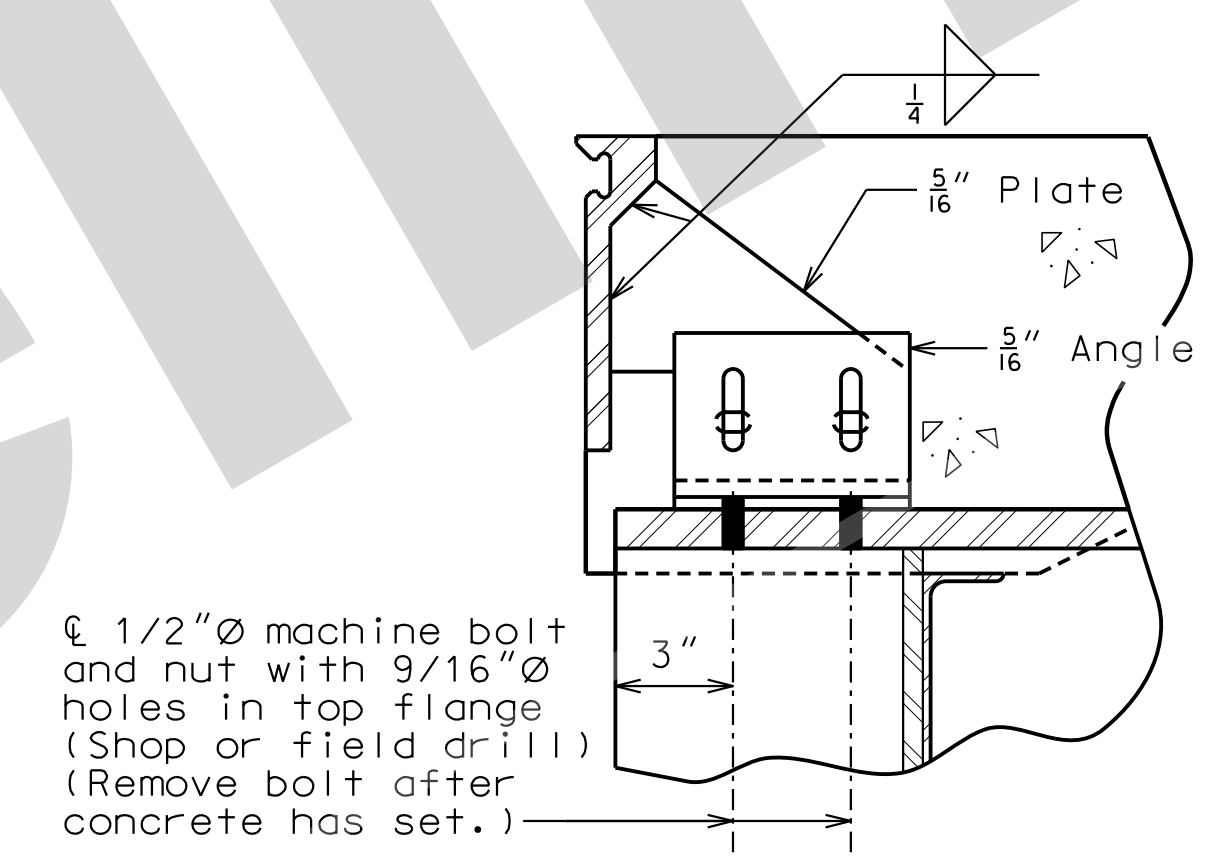
PART SECTION B-B



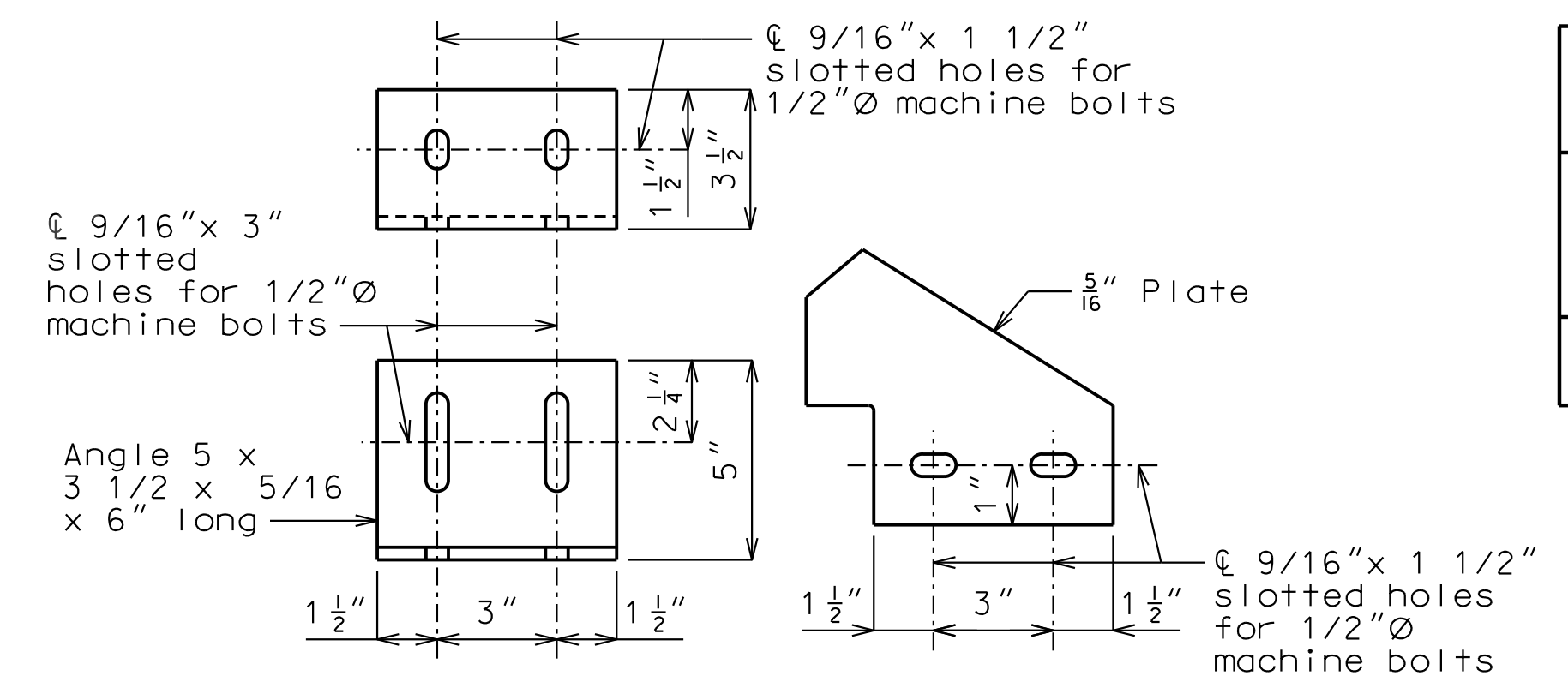
DETAIL OF JOINT ARMOR



DETAIL OF GLAND



DETAIL A



DETAIL B

GENERAL NOTES:

Expansion joint system shall be fabricated in one section, except for staged construction and when the length is over 50 feet. A complete joint penetration groove welded splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion joint system shall be fabricated and installed to the crown and grade of the roadway.

The strip seal gland shall be installed in joints in one continuous piece without field splices. Factory splicing will be permitted for joints in excess of 53 feet.

Structural steel for the expansion joint system shall be ASTM A709 Grade 36 except the steel armor may be ASTM A709 Grade 50W. Anchors for the expansion joint system shall be in accordance with Sec 1037. Strip seal expansion joint system shall be in accordance with Sec 717.

Structural steel for the expansion joint system shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.

Longitudinal reinforcing steel shall be placed so that ends shall be 1\"/>

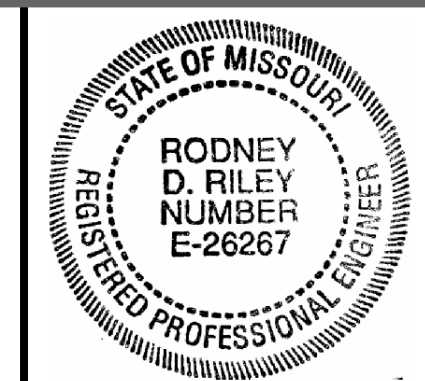
Concrete shall be forced under and around steel armor and anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.

② The installation temperature shall be taken as the actual air temperature averaged over the 24-hour period immediately preceding installation.

③ MoDOT Construction personnel will indicate the strip seal expansion joint system installed.

Steel armor may also be referred to as extrusion or rail.

Table of Allowed Transverse Strip Seal Expansion Joint System									
Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	Allowed Installation Gap Normal to Joint at RDWY Surface @ Air/Surface Temperature						
			① @ 40°F	② @ 50°F	③ @ 60°F	④ @ 70°F	⑤ @ 80°F	⑥ @ 90°F	
D S Brown	Strip seal L2-500	3 5/16"	2 15/16"	2 11/16"	2 1/2"	2 3/4"	2 5/8"	1 13/16"	□



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 14

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

Match Line, see Sheet No. 15

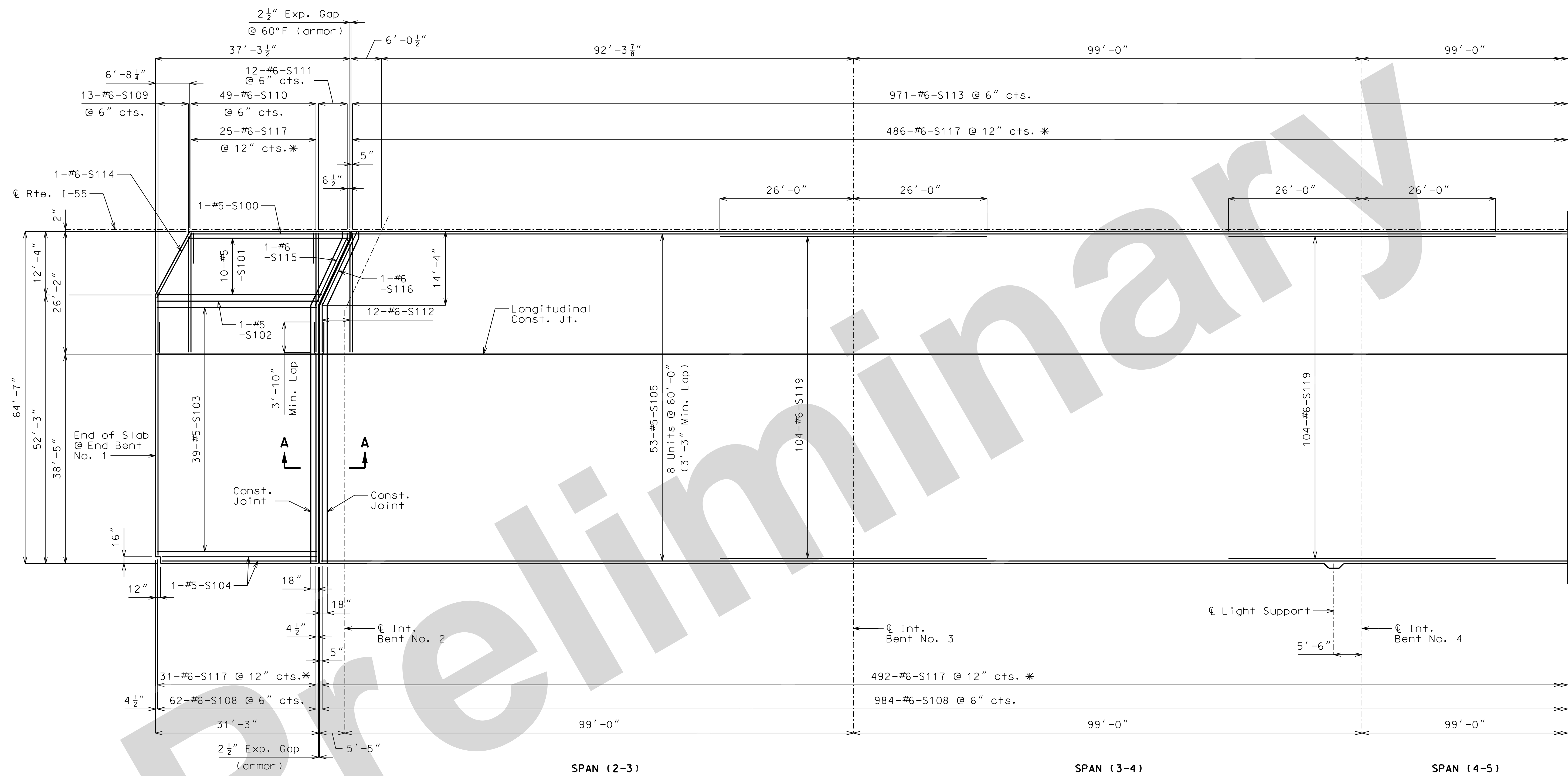
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

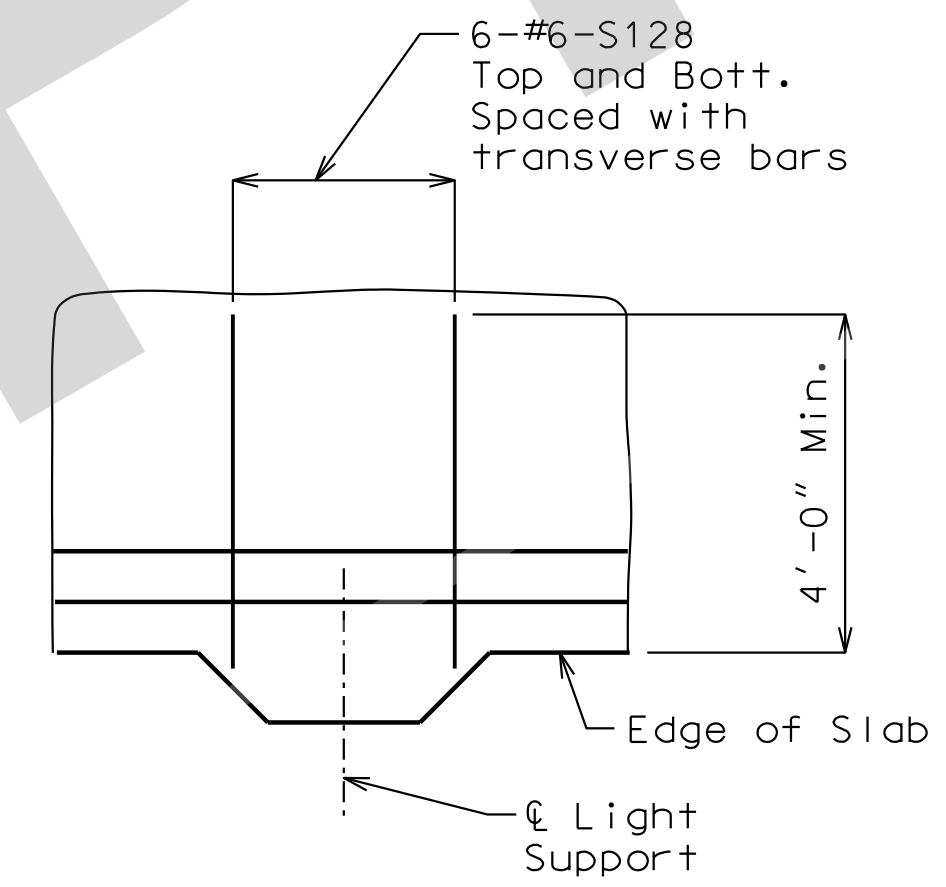
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

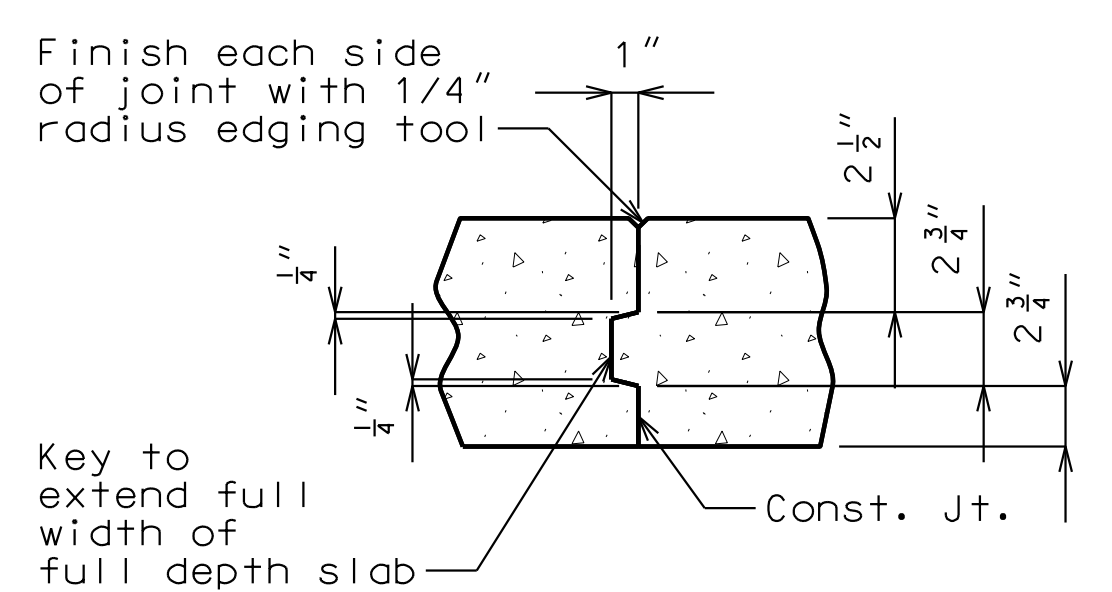
JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



PLAN OF SLAB SHOWING TOP REINFORCEMENT
* Space S117 between every other S108 or S113.

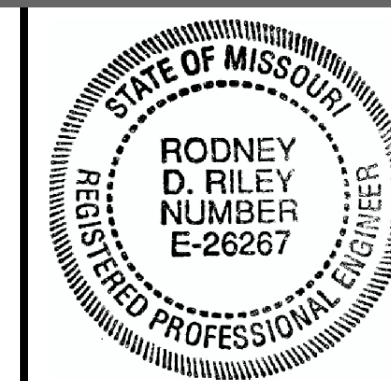


ADDITIONAL BARS AT LIGHT SUPPORTS



LONGITUDINAL SLAB JOINT

- Notes:
- All bents are parallel.
 - Longitudinal dimensions shown are horizontal dimensions.
 - For Section Thru Slab, see Sheet No. 1.
 - For Slab Pouring sequence, see Sheet No. 18.
 - For Bottom Slab Reinforcement Plan, see Sheets No. 16 & 17.
 - For Details and Reinforcement of MoDOT Type D Barrier not shown, see Sheets No. 19 thru 22.
 - For Light Support Details, see Sheet No. 20.
 - For Strip Seal Joint Details, see Sheets No. 12 & 13.
 - Work this sheet with Sheets No. 15, 16, & 17.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 15

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

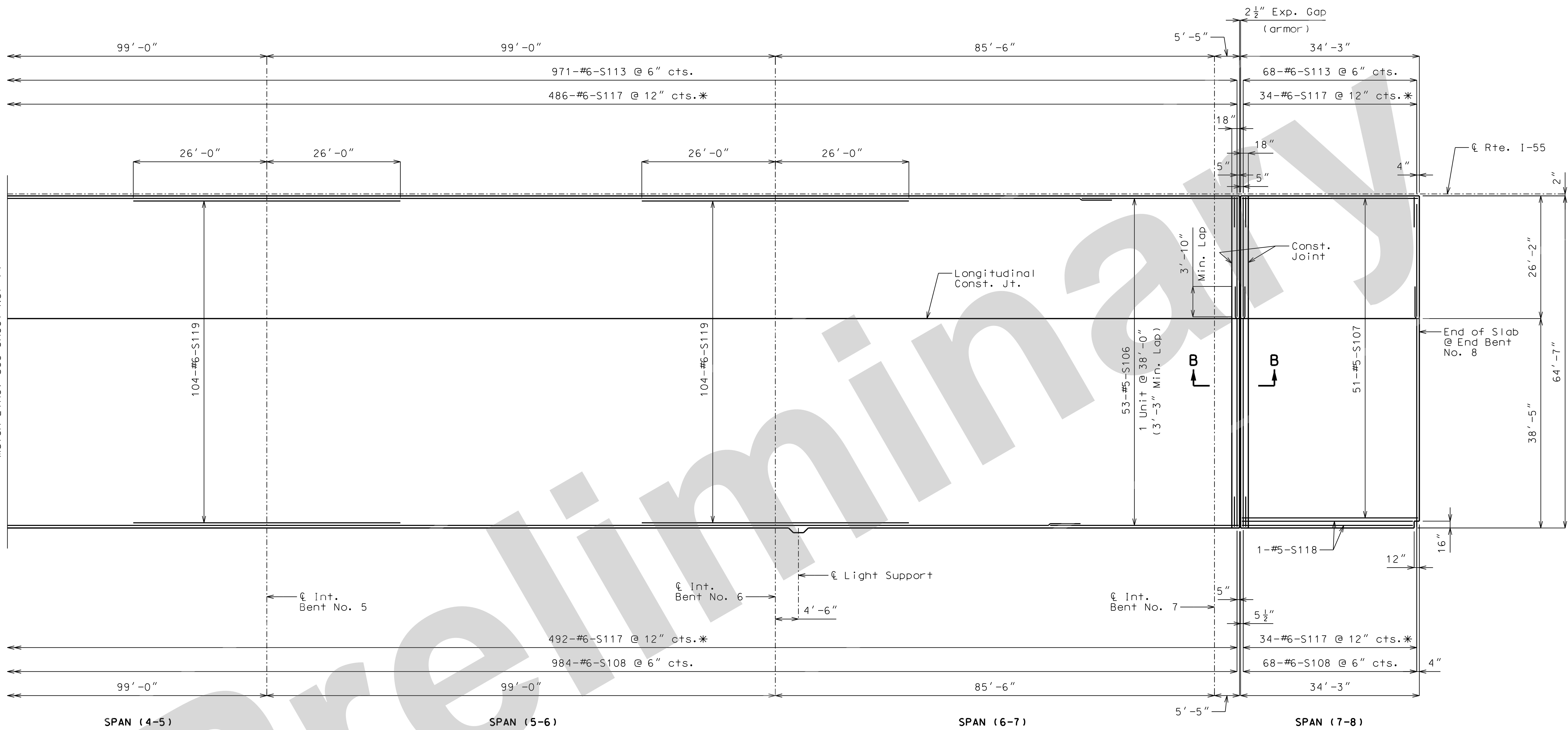
1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

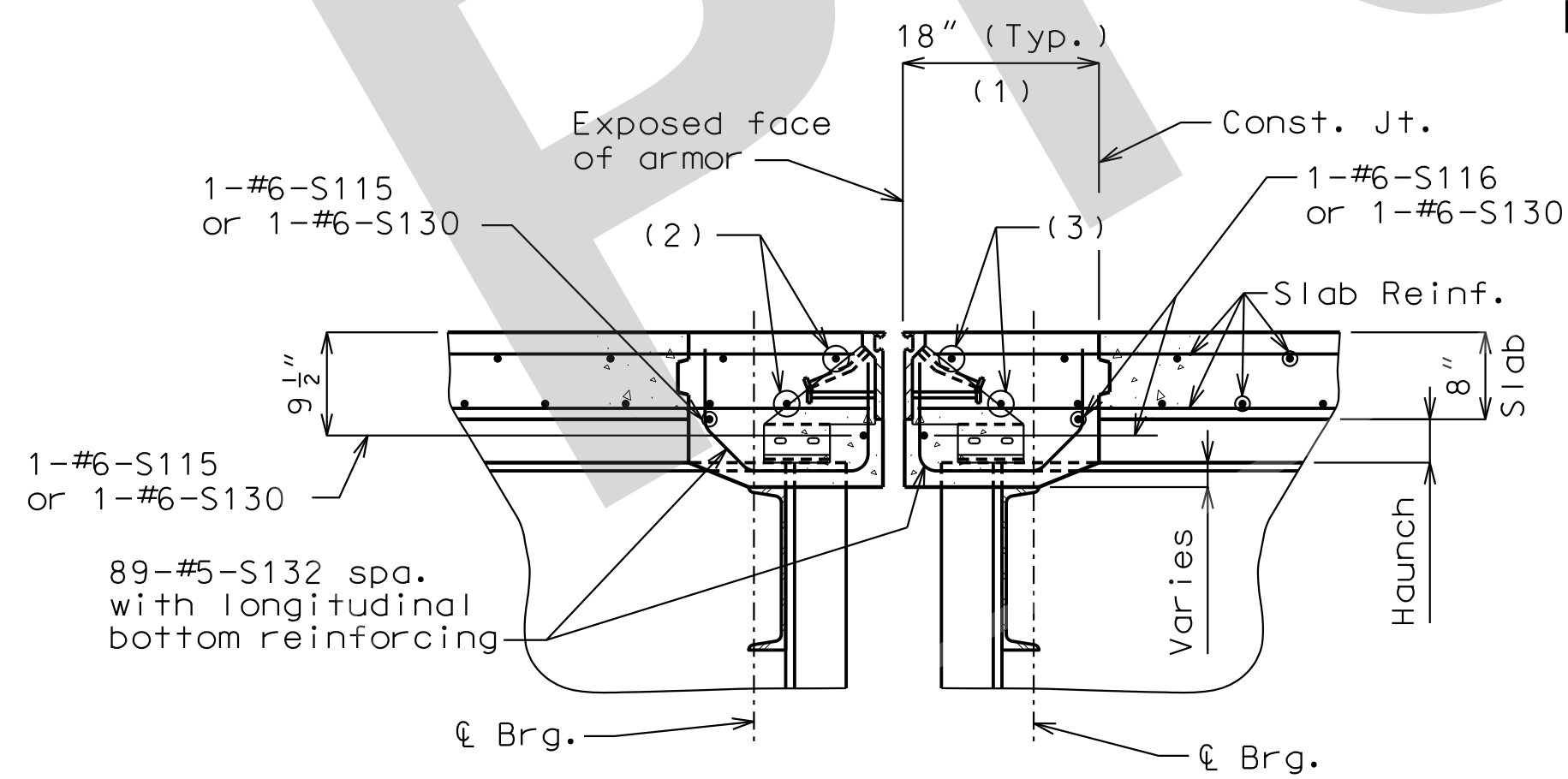
CERTIFICATE OF AUTHORITY #00704

REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

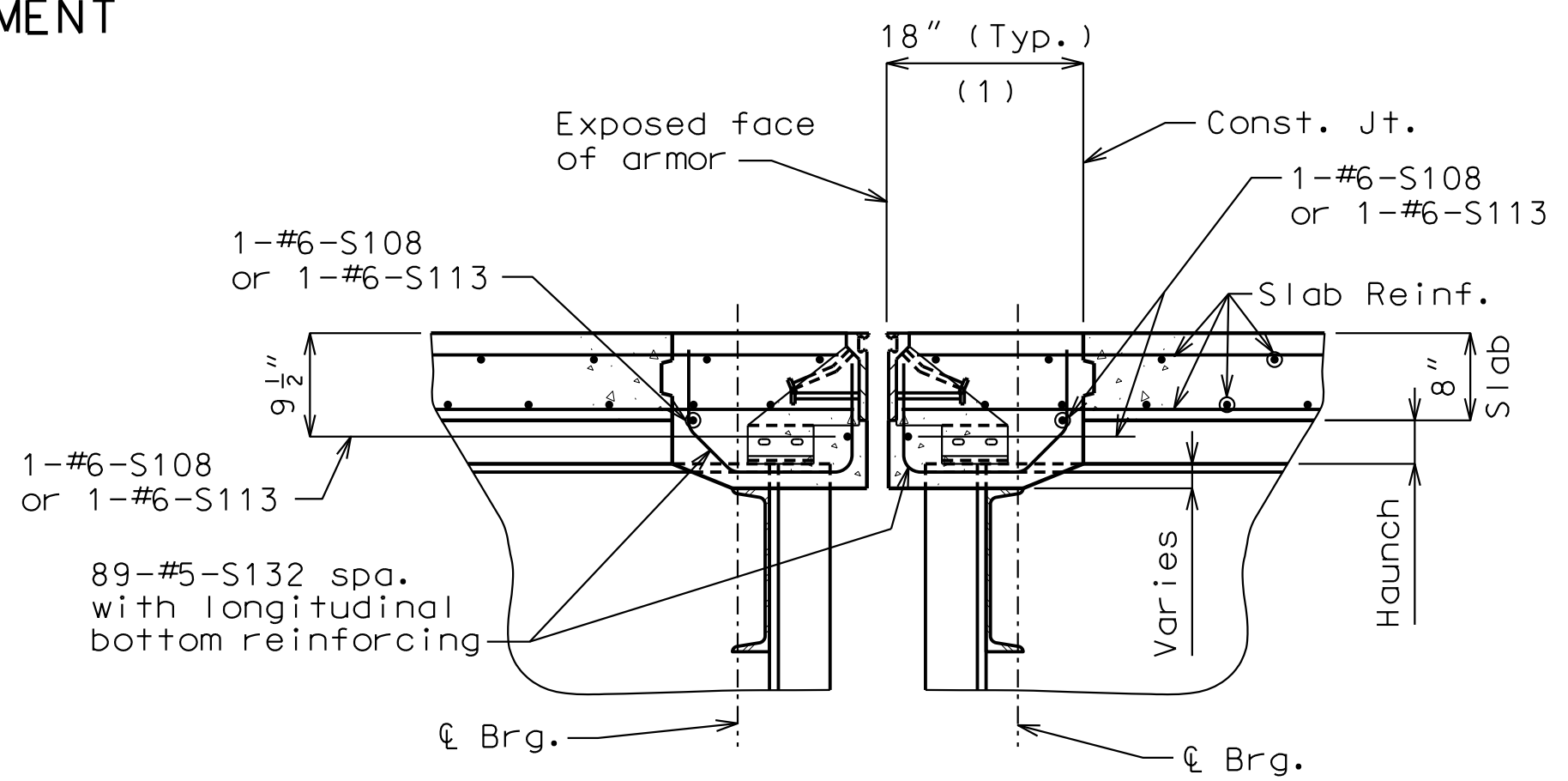


PLAN OF SLAB SHOWING TOP REINFORCEMENT

* Space S117 between every other S108 or S113.



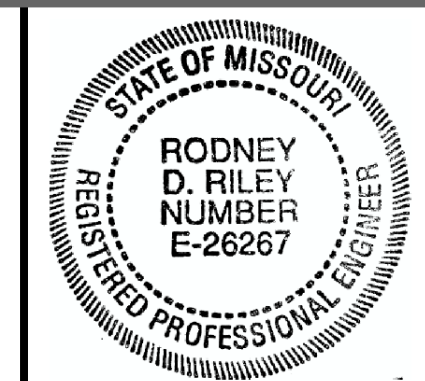
SECTION A-A



SECTION B-B

- (1) Concrete in each blockout shall be Ultra-high Performance Concrete (UHPC). See Special Provisions.
- (2) #6-S115 at skewed section.
- (3) #6-S116 at skewed section.

Notes:
Work this sheet with Sheets No. 14, 16, & 17.



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DATE PREPARED
16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 16

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

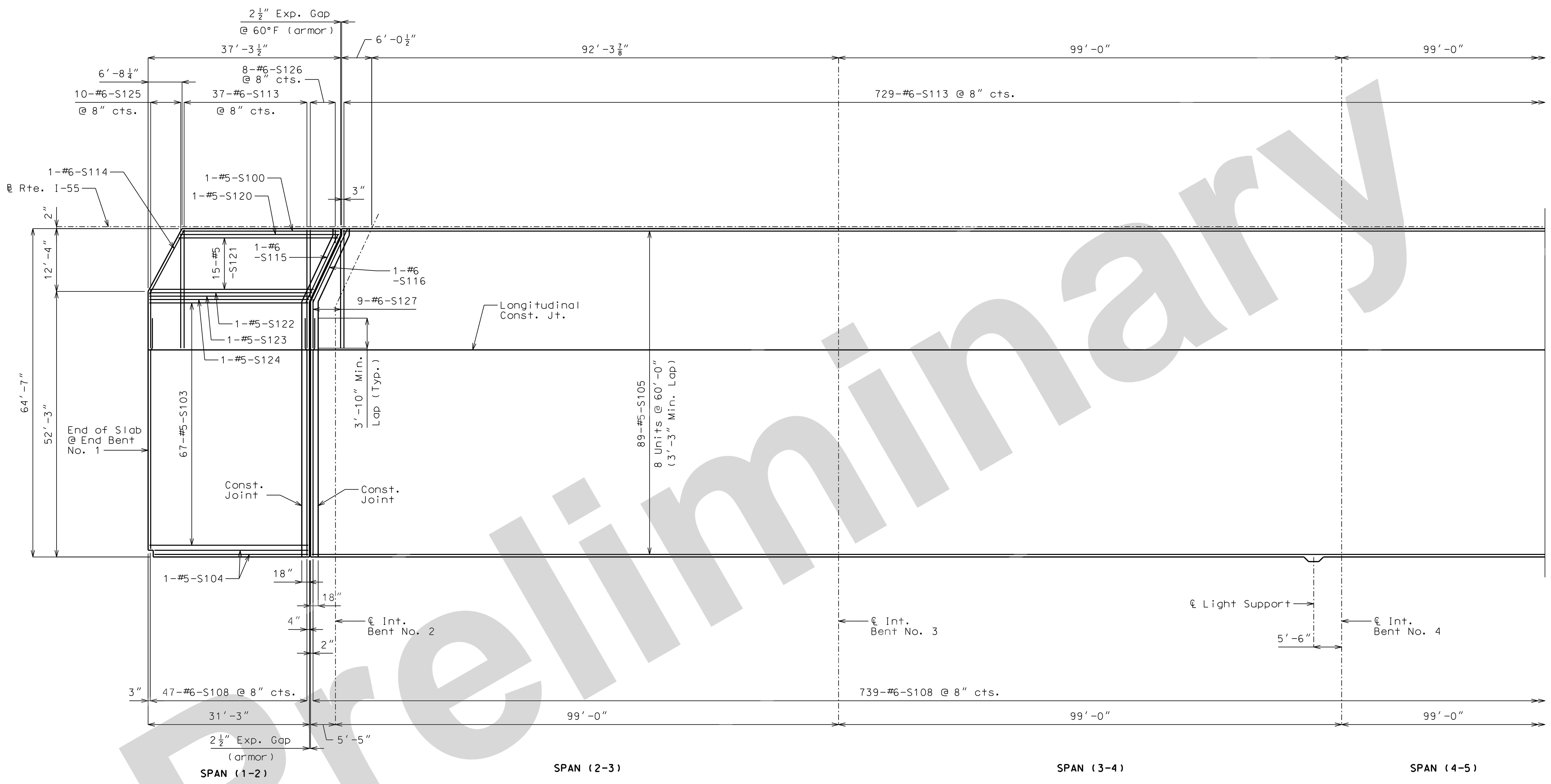
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



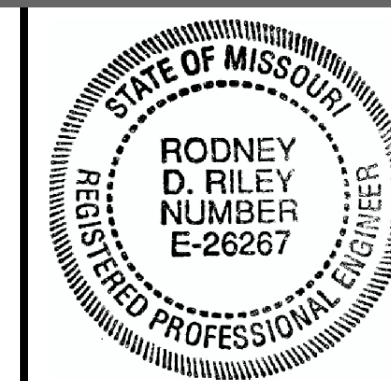
PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT

- Notes:
- Work this sheet with Sheets No. 14, 15, & 17.
 - All bents are parallel.
 - Longitudinal dimensions shown are horizontal dimensions.
 - For Section Thru Slab, see Sheet No. 1.
 - For slab pouring sequence, see Sheet No. 18.
 - For details and reinforcement of Type D Barrier not shown, see Sheets No. 19 thru 22.
 - For Light Support Details, see Sheet No. 20.
 - For Strip Seal Joint Details, see Sheets No. 12 & 13.

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 28



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 17

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

REVISIONS

NO.	DATE	DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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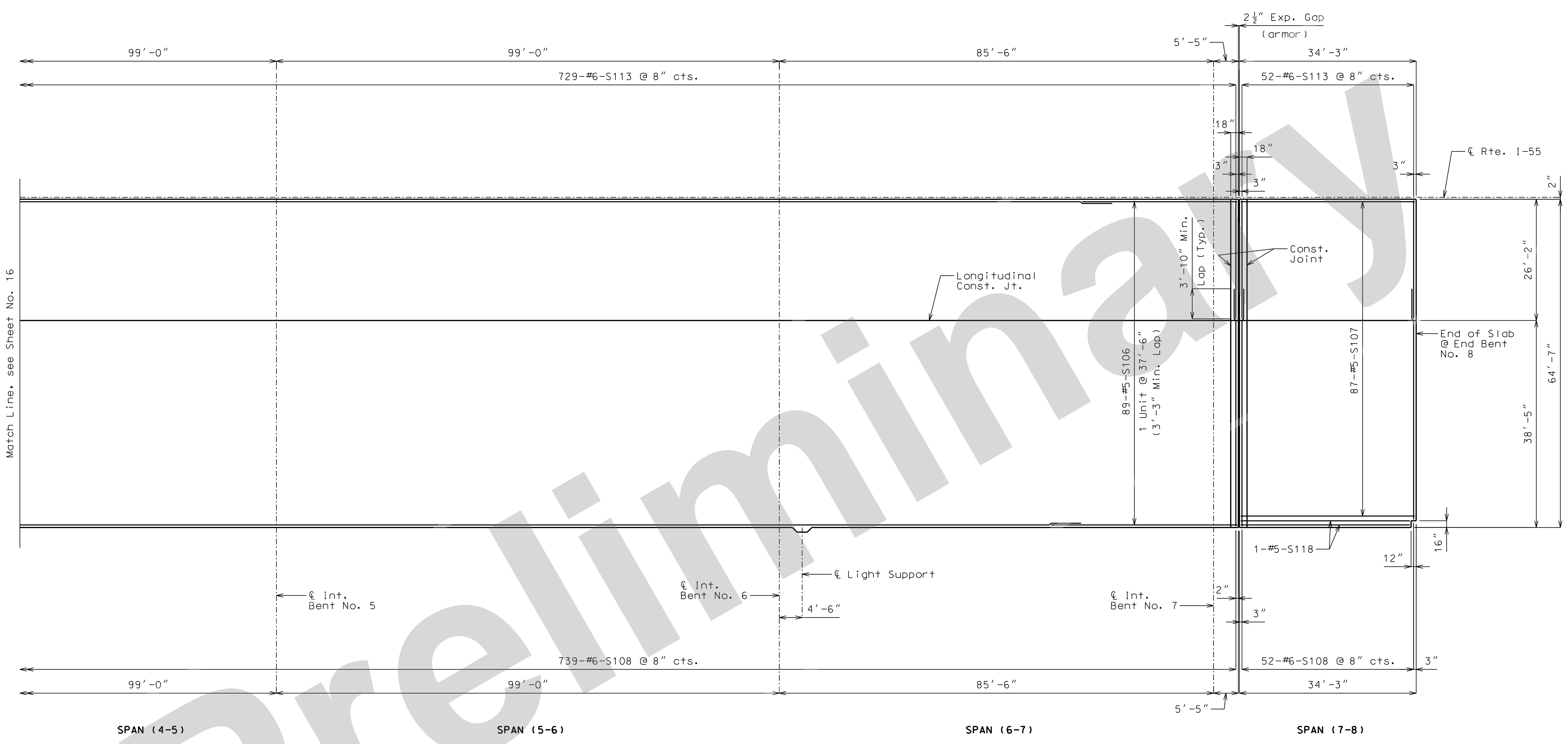
DATE

DESCRIPTION

DATE

DESCRIPTION

Match Line, see Sheet No. 16



PLAN OF SLAB SHOWING BOTTOM REINFORCEMENT

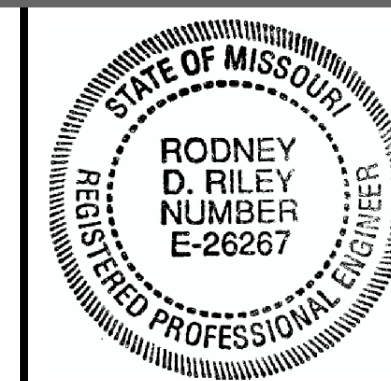
Notes:
Work this sheet with Sheet Nos. 14, 15, & 16.

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 17 of 28

REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 18

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

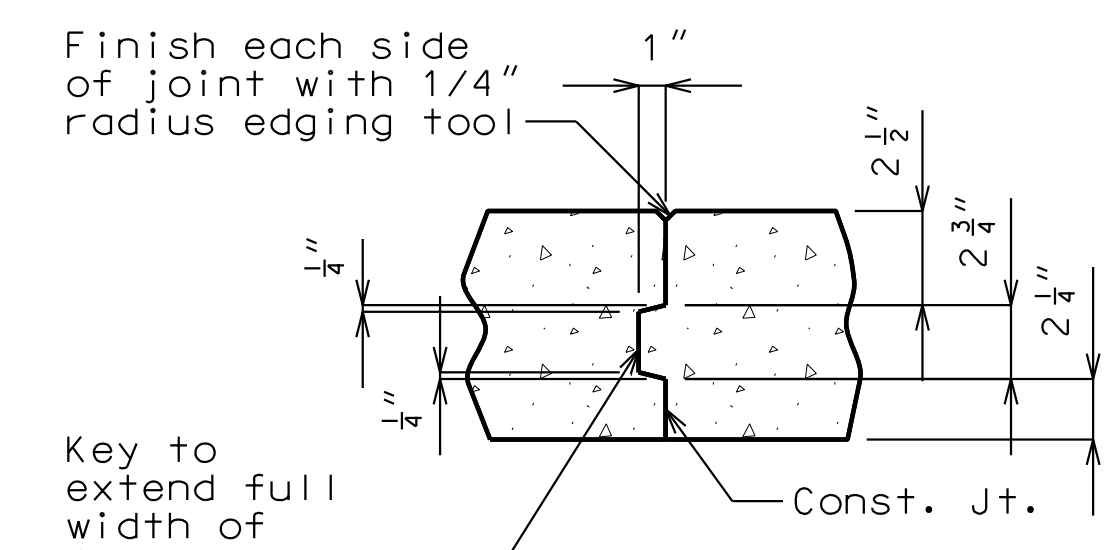
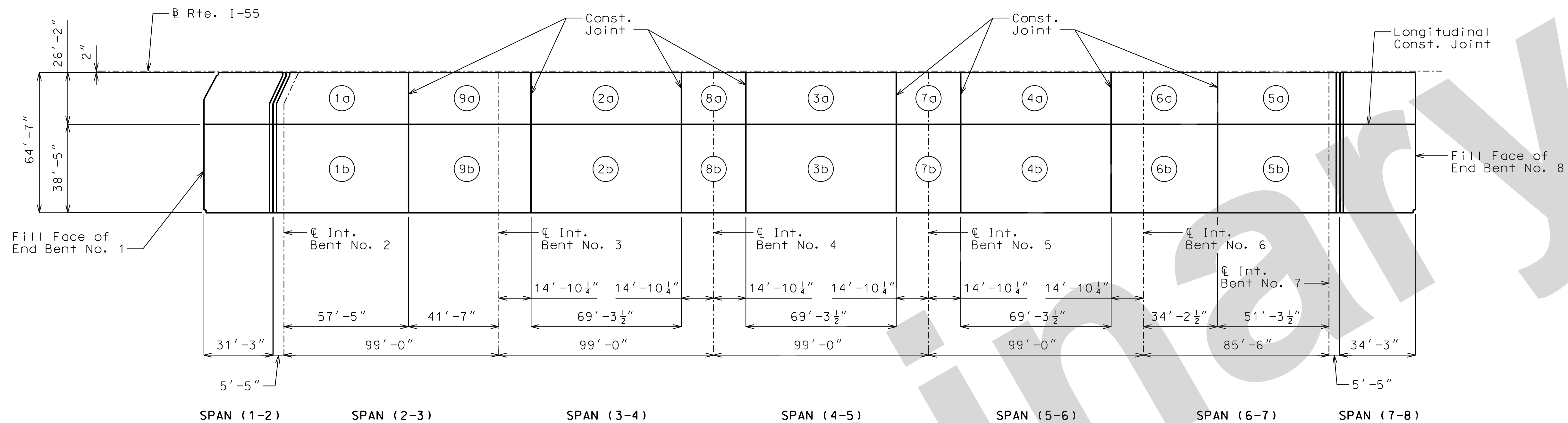
JACOBS

ST. LOUIS, MISSOURI 63102-2121

901 NORTH BROADWAY

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	Sequence of Pours									Min. Rate of Pour Cu. Yds./Hr.			
	Direction									With Retarder		No Retarder	
	1	2	3	4	5	6	7	8	9	a	b	a	b
Basic Sequence	Either Direction									25	25	25	25
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec. 703.													
Alternate A Pours	1	9 + 2	8 + 3	7 + 4	6 + 5				25	30	25	49	
	End to 9		1 to 8		2 to 7		3 to 6		4 to End				
Alternate B Pours	1 + 9 + 2	8 + 3	7 + 4	6 + 5					25	30	29	49	
	End to 8		2 to 7		3 to 6		4 to End						
Alternate C Pours	1 + 9 + 2 + 8	3 + 7 + 4 + 6 + 5							25	30	29	49	
	End to 3		8 to End										
Alternate D Pours	1 + 9 + 2 + 8 + 3 + 7 + 4 + 6 + 5									25	30	29	49
	End to End												

Notes:

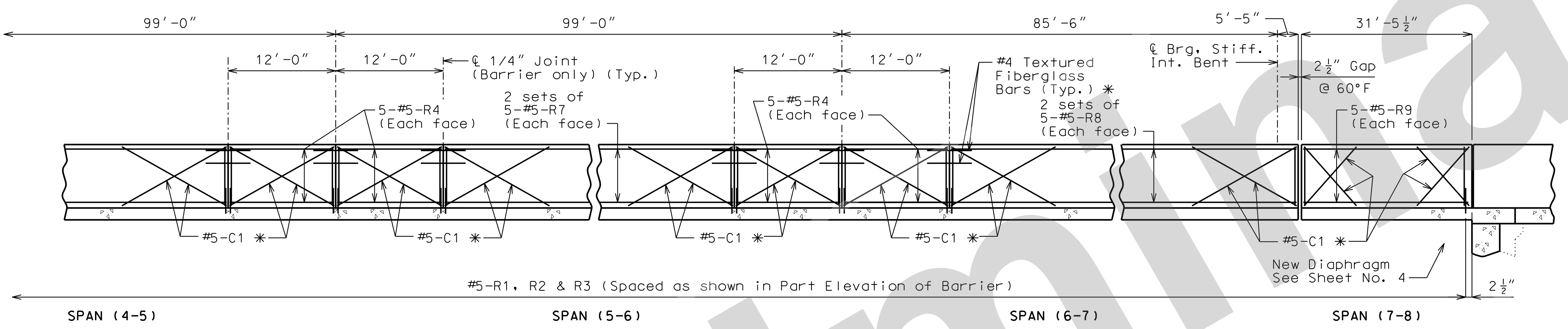
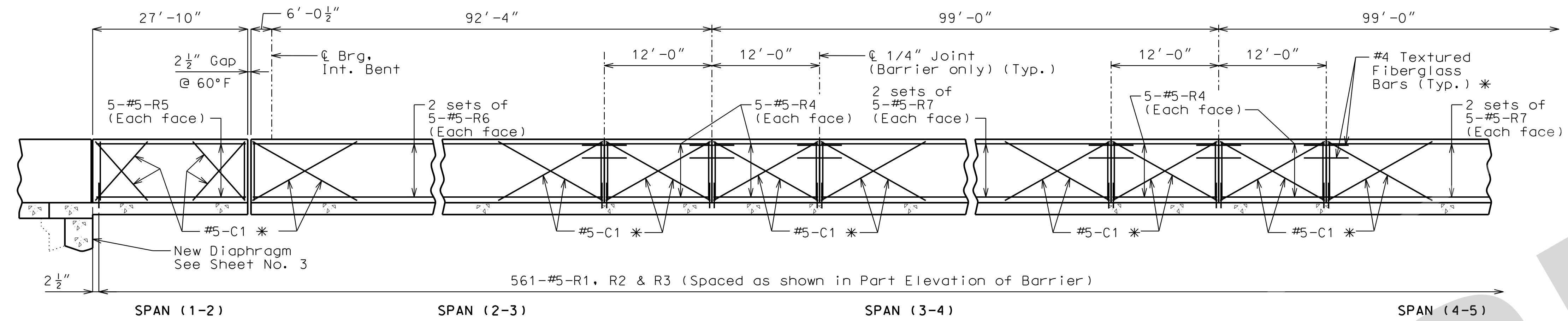
The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours and shall pour and satisfactorily finish the slab pours at the rate given.

End diaphragms at expansion devices may be poured with a construction joint between the diaphragm and slab, or monolithic with the slab.

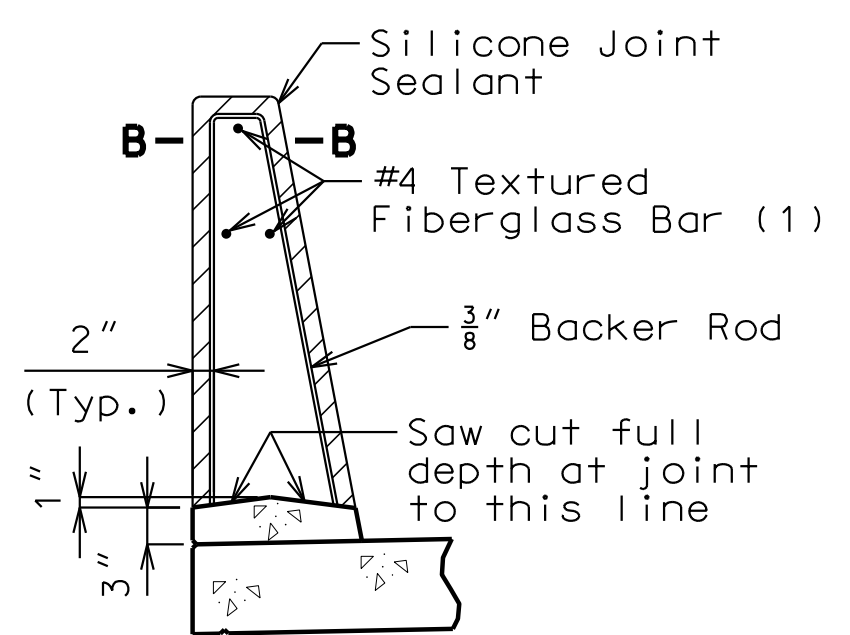
The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

The longitudinal construction joints may be omitted with the approval of the engineer. When the longitudinal construction joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.68.

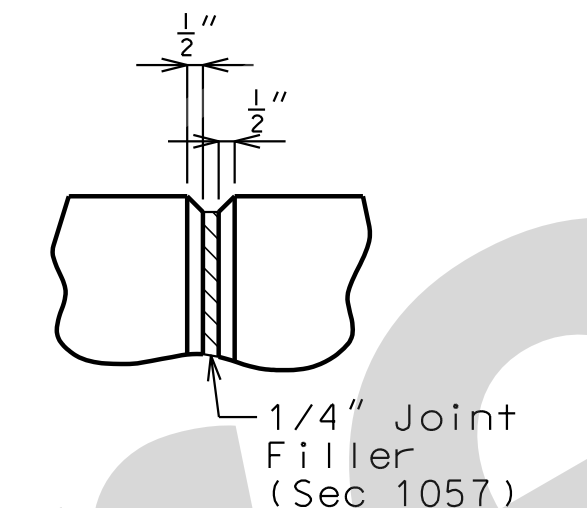
SLAB POURING SEQUENCE



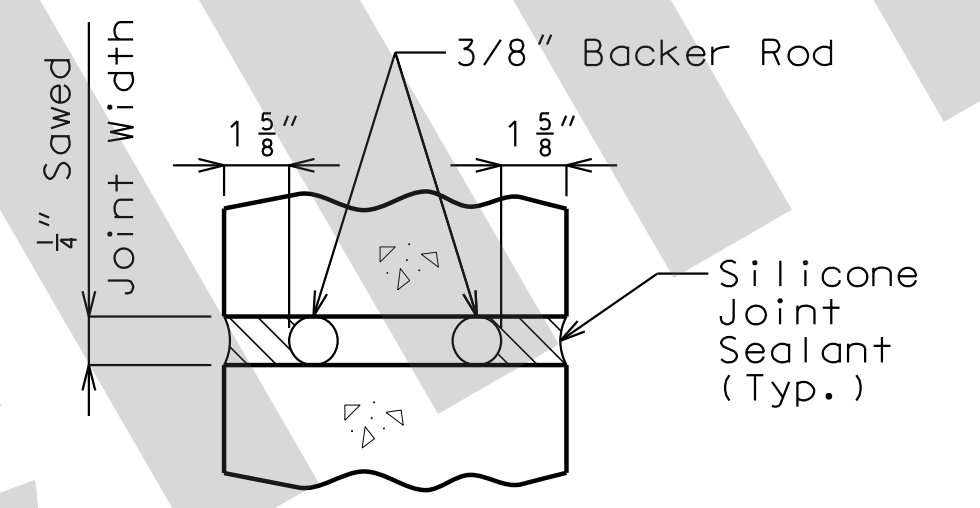
**DEVELOPED SECTION OF LEFT BARRIER CURB
(Northbound Lane, Median)**



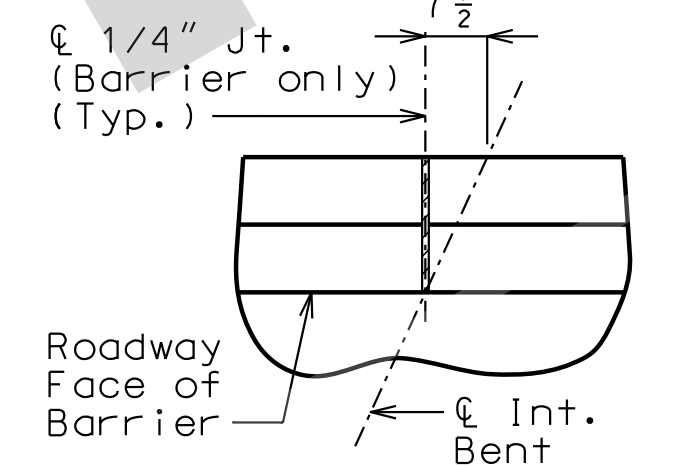
SECTION THRU SAW CUT JOINT



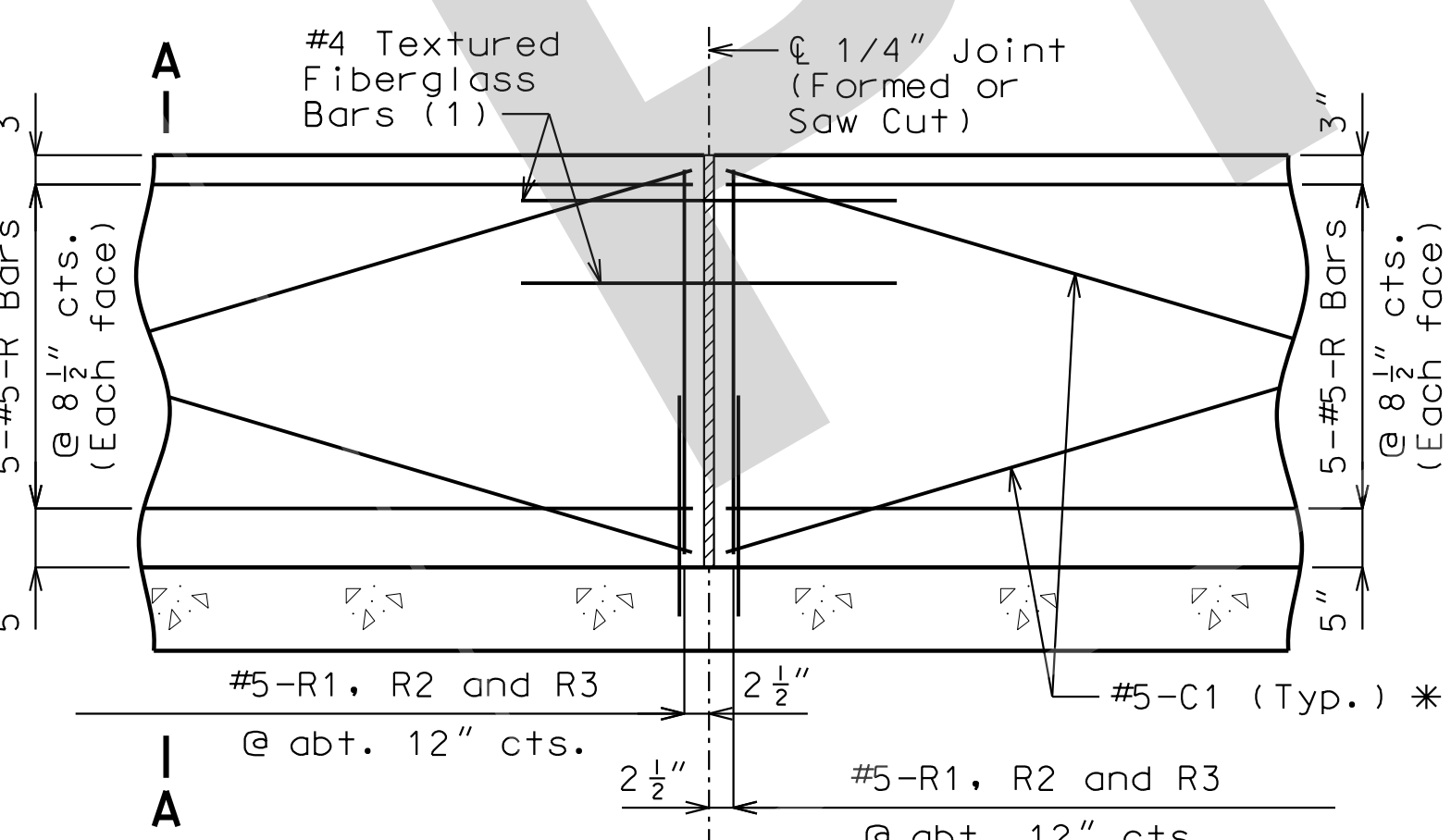
PART ELEVATION AT FORMED JOINT



SECTION B-B

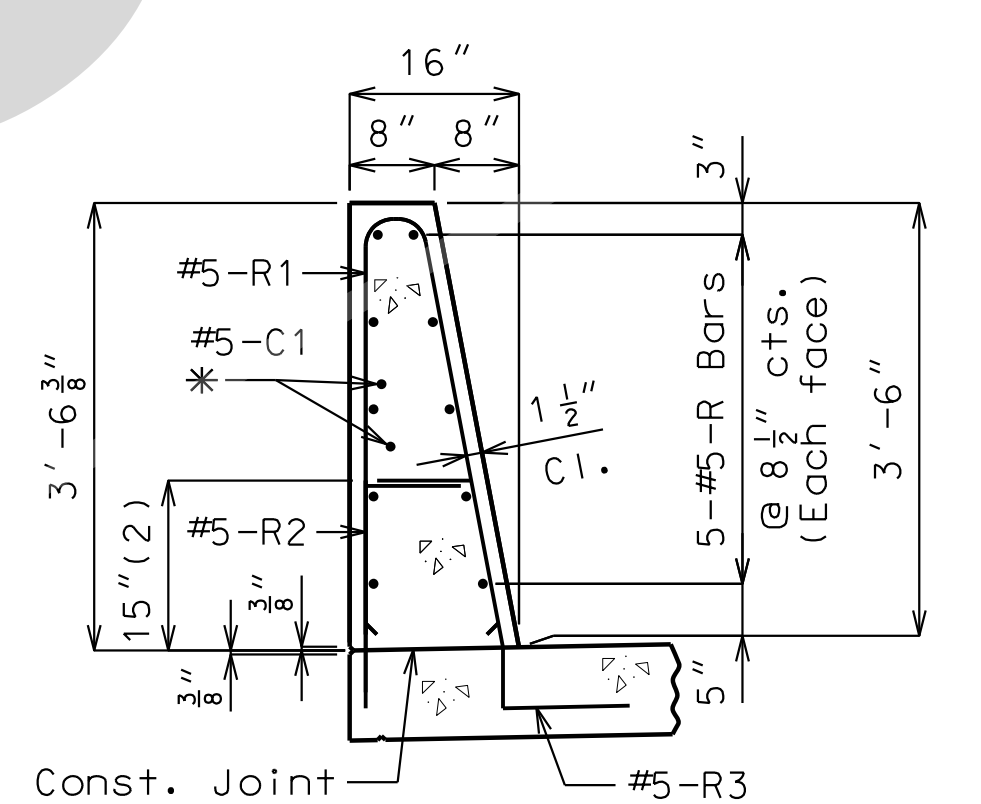


PART PLAN SHOWING JOINT LOCATION



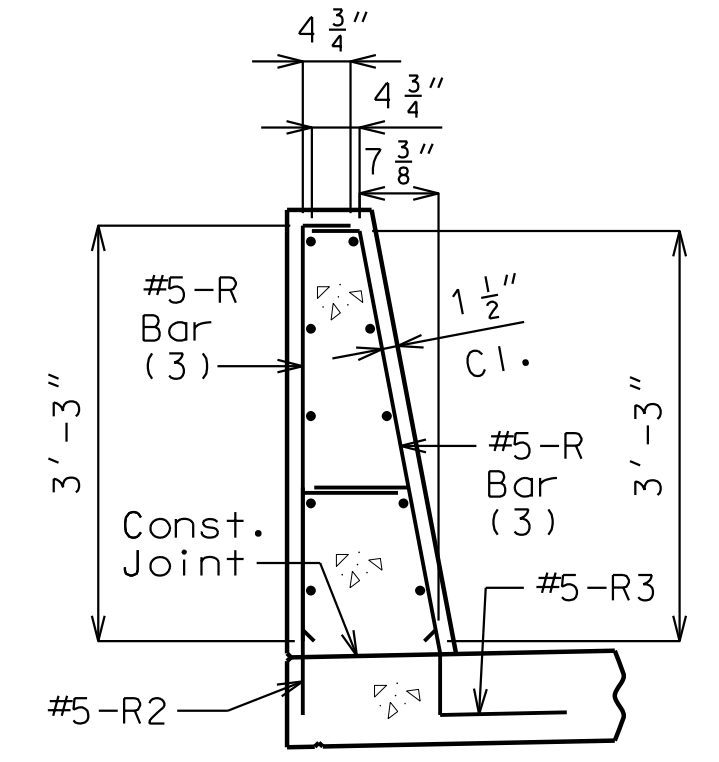
PART ELEVATION OF BARRIER

(1) Four feet long, centered on joint, slip-formed option only



SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal barrier bars.
The cross-sectional area above the slab is 3.52 square feet.
(2) To top of bar



R-BAR PERMISSIBLE ALTERNATE SHAPE

(3) The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

General Notes:

* Slip-formed option only.

Conventional forming or slip forming may be used. Saw cut joints may be used with conventional forming.

Top of barrier shall be built parallel to grade and barrier joints normal to grade.

All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type D Barrier per linear foot.

Concrete in barrier shall be Class B-1.

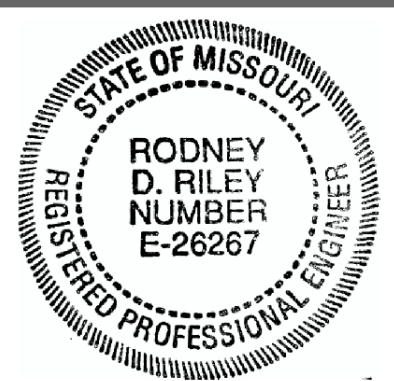
Measurement of left barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of bridge approach slab to end of bridge approach slab.

Measurement of right barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

For slip-formed option, both sides of barrier shall have a vertically broomed finish and the top shall have a transversely broomed finish.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 19

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

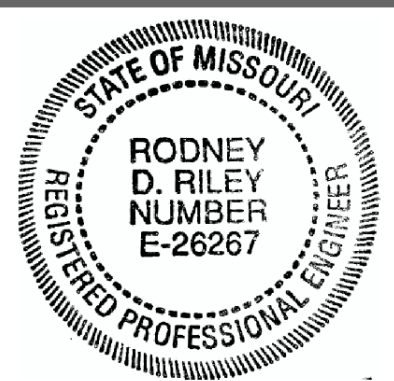
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 20

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

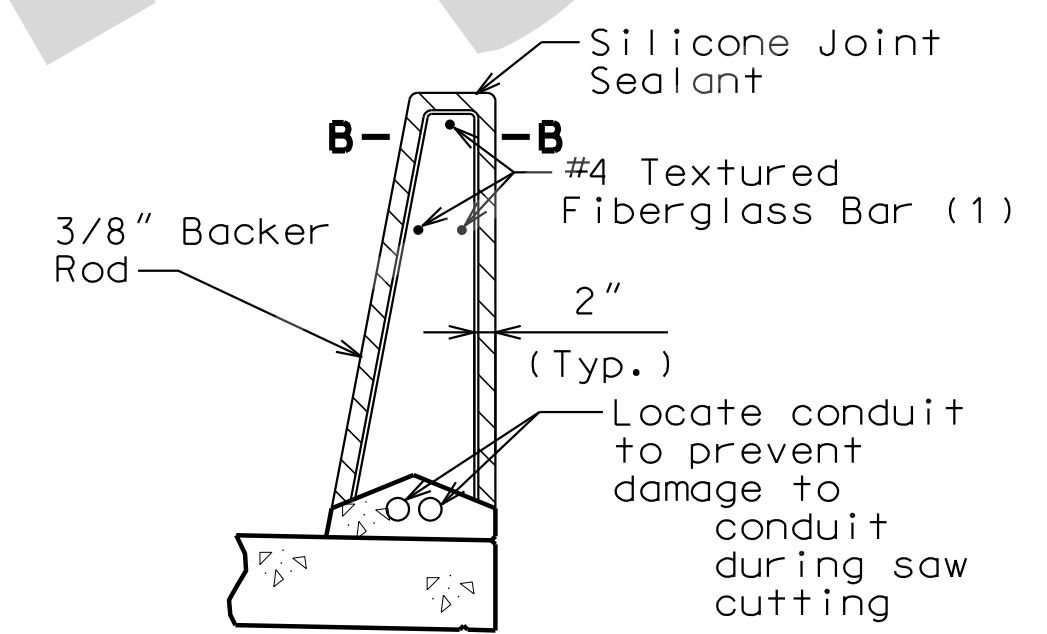
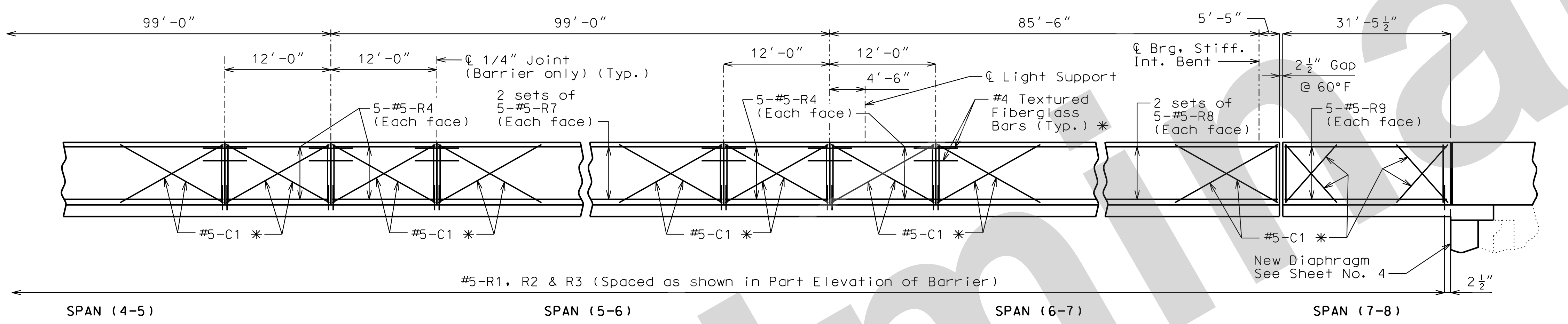
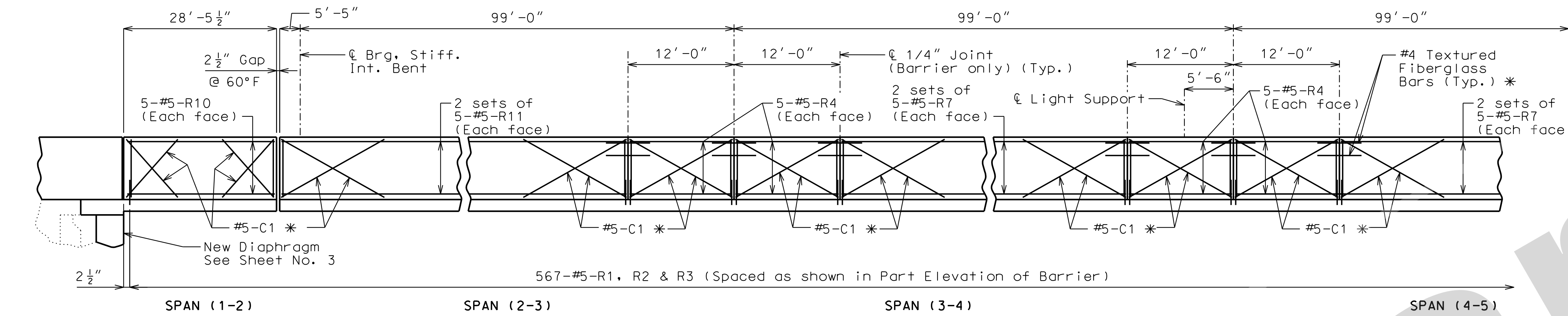
1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP

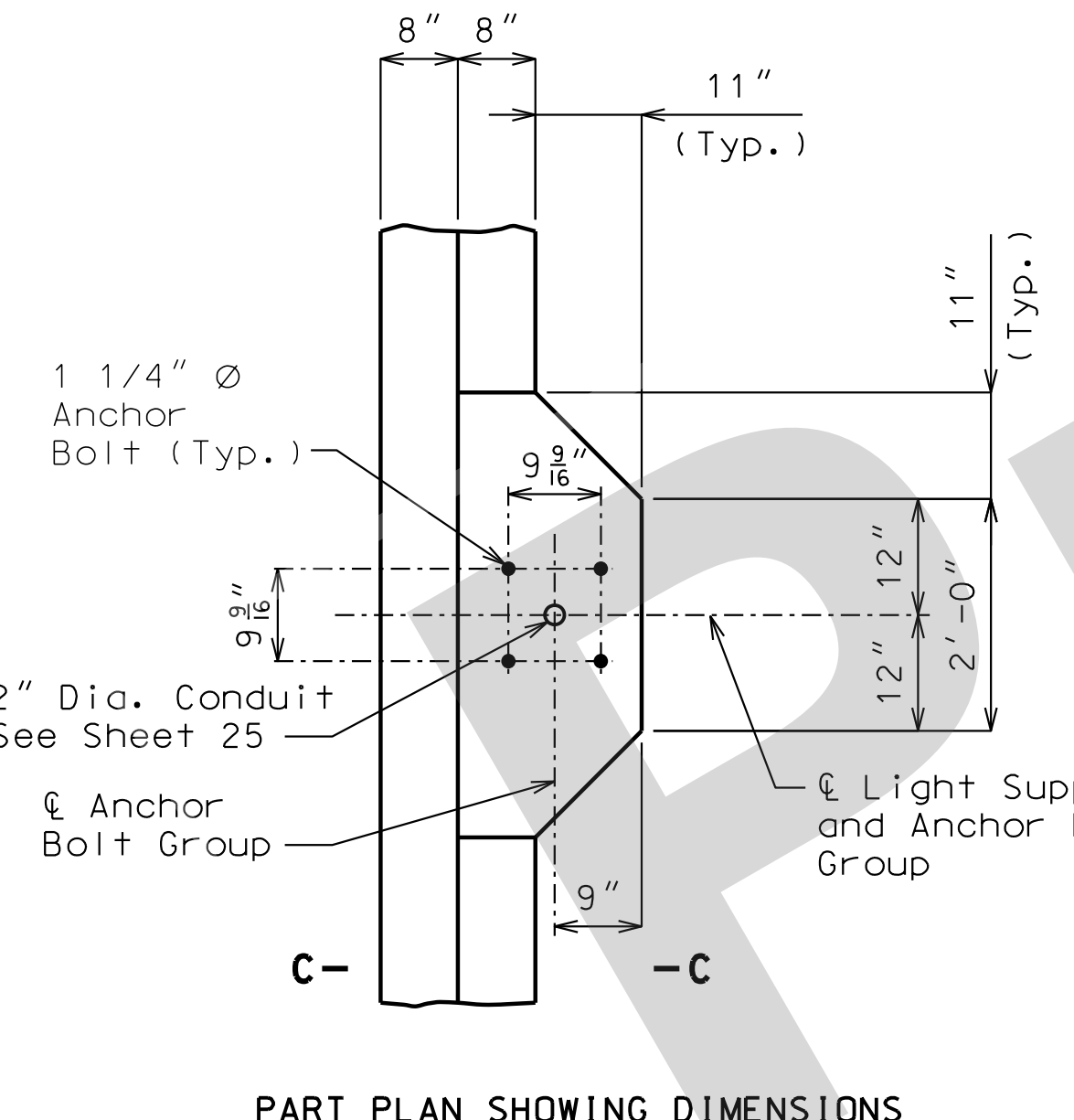
901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

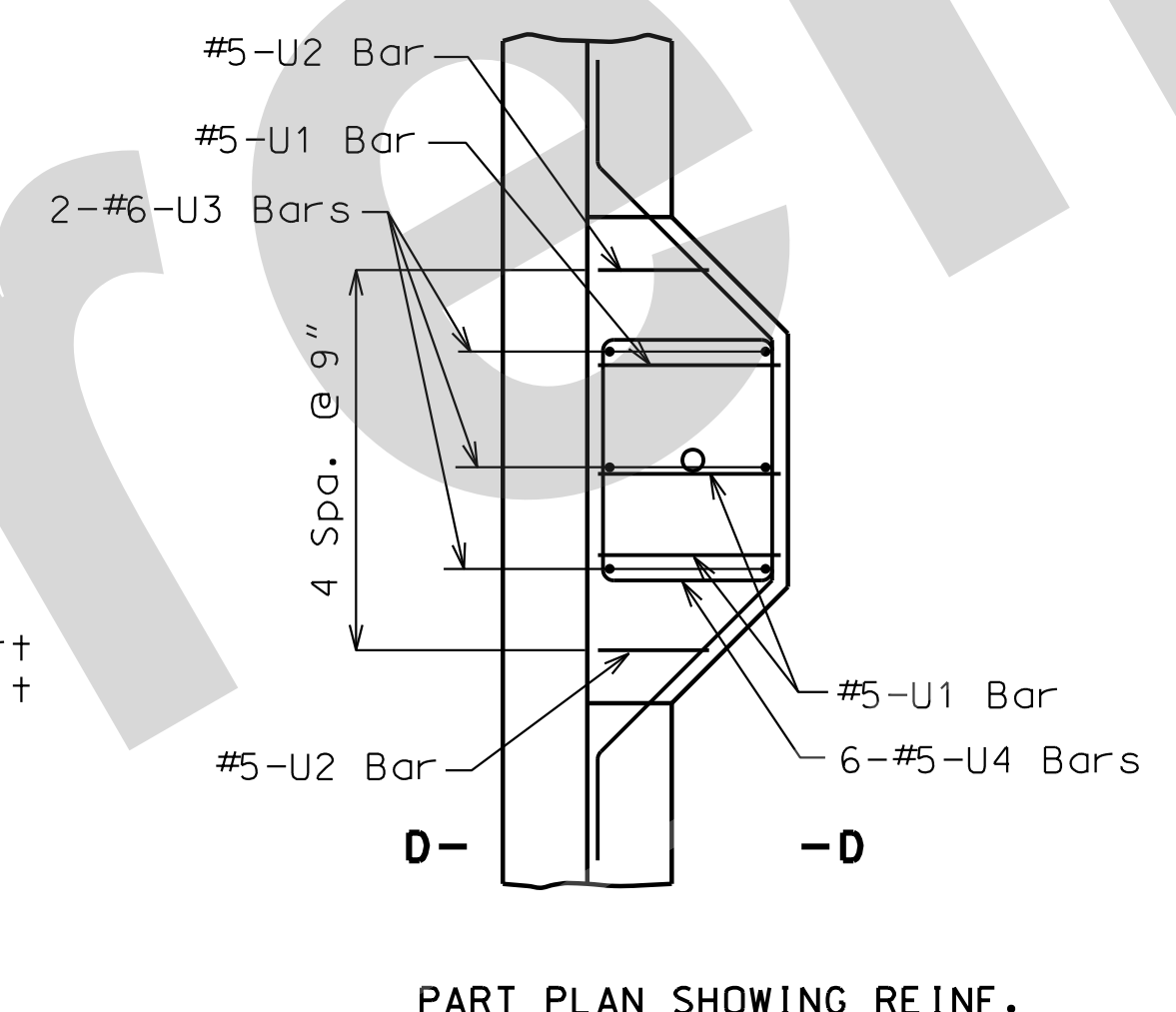
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



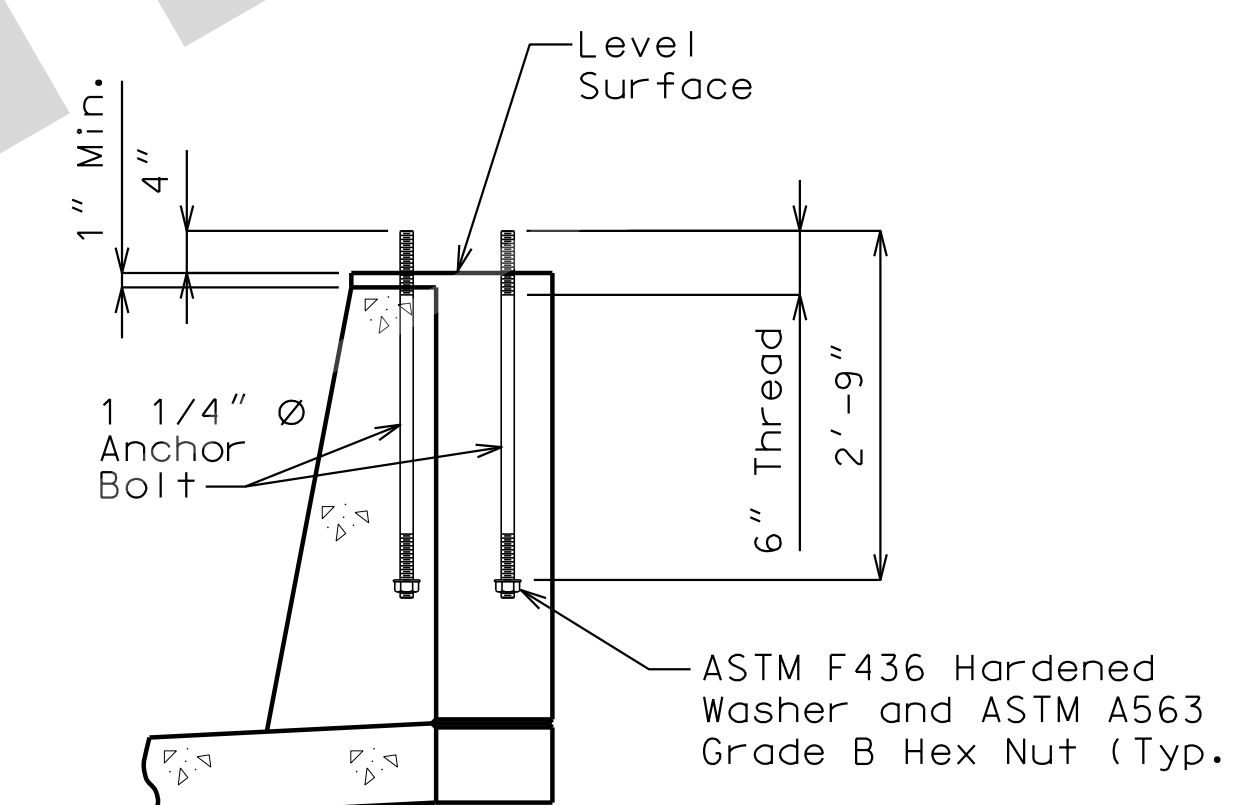
SECTION THRU SAW CUT JOINT RIGHT CURB
For Section B-B, see Sheet No. 19.



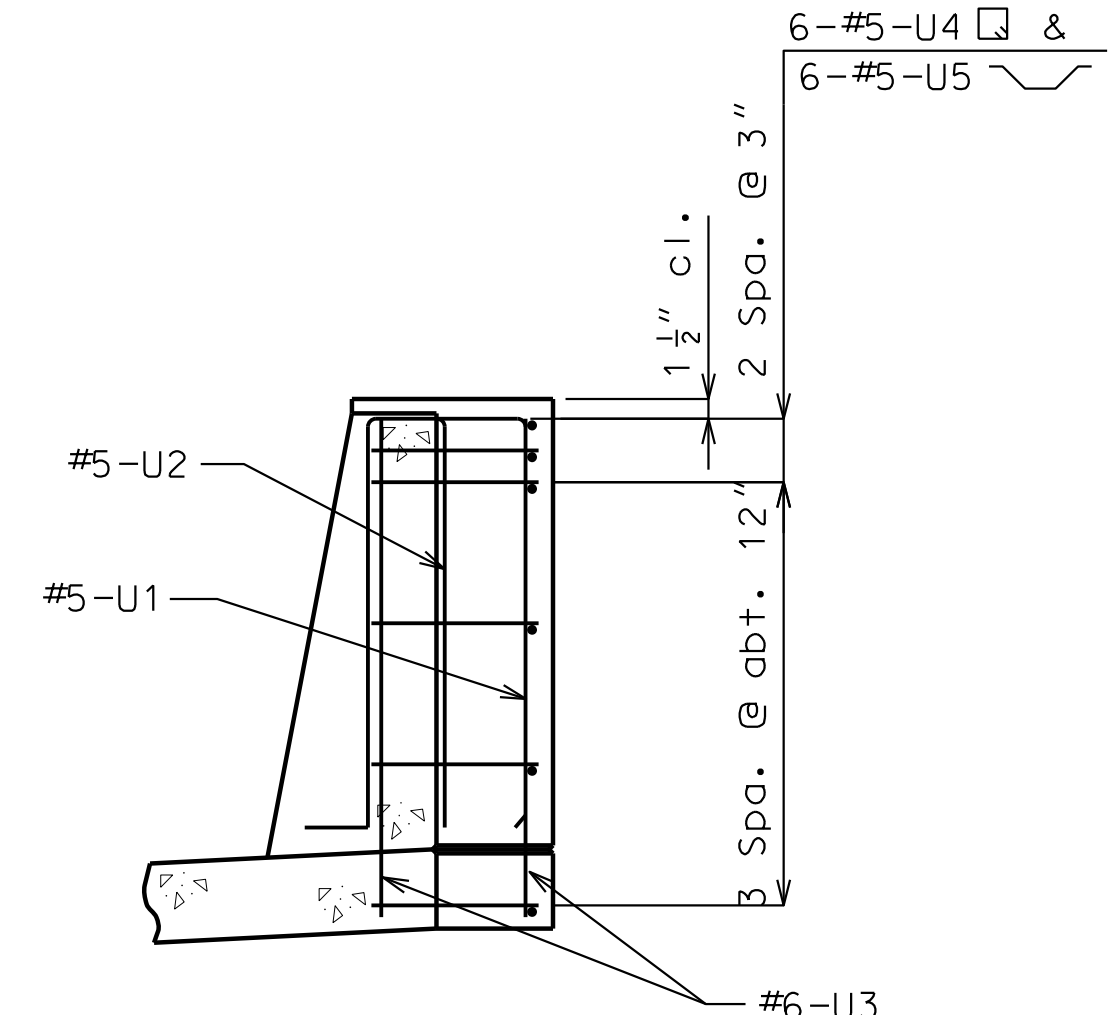
PART PLAN SHOWING DIMENSIONS



PART PLAN SHOWING REINF.



SECTION C-C



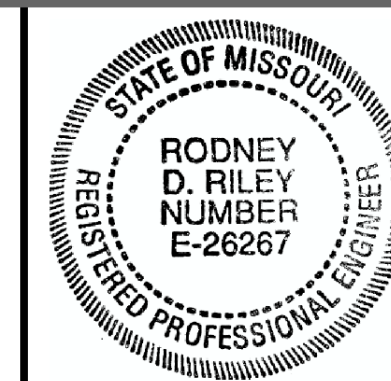
SECTION D-D

DETAILS OF LIGHT STANDARD SUPPORT

TYPE D BARRIER - RIGHT CURB

General Notes:

- For General Notes and details not shown, see Sheet No. 19.
- For Part Elevation of Barrier Curb, see Sheet No. 19.
- For Filled Joint Detail, see Sheet No. 19.
- For Safety Barrier Sections and Details, see Sheet No. 19.
- Conduits are not shown for clarity.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 21

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

CERTIFICATE OF AUTHORITY #00704

JACOBS

JACOBS ENGINEERING GROUP

901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

CERTIFICATE OF AUTHORITY #00704

JACOBS

JACOBS ENGINEERING GROUP

901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

CERTIFICATE OF AUTHORITY #00704

JACOBS

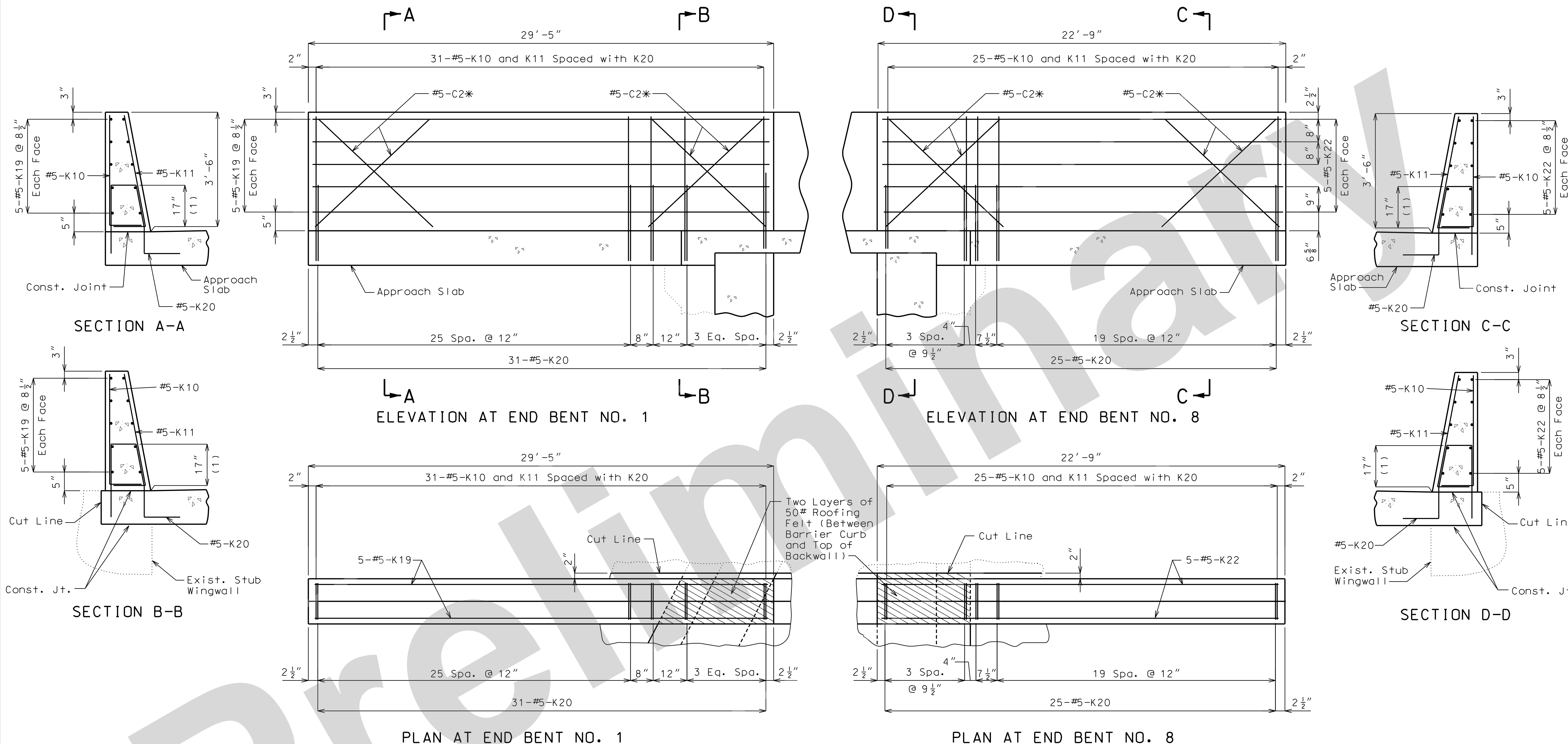
JACOBS ENGINEERING GROUP

901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

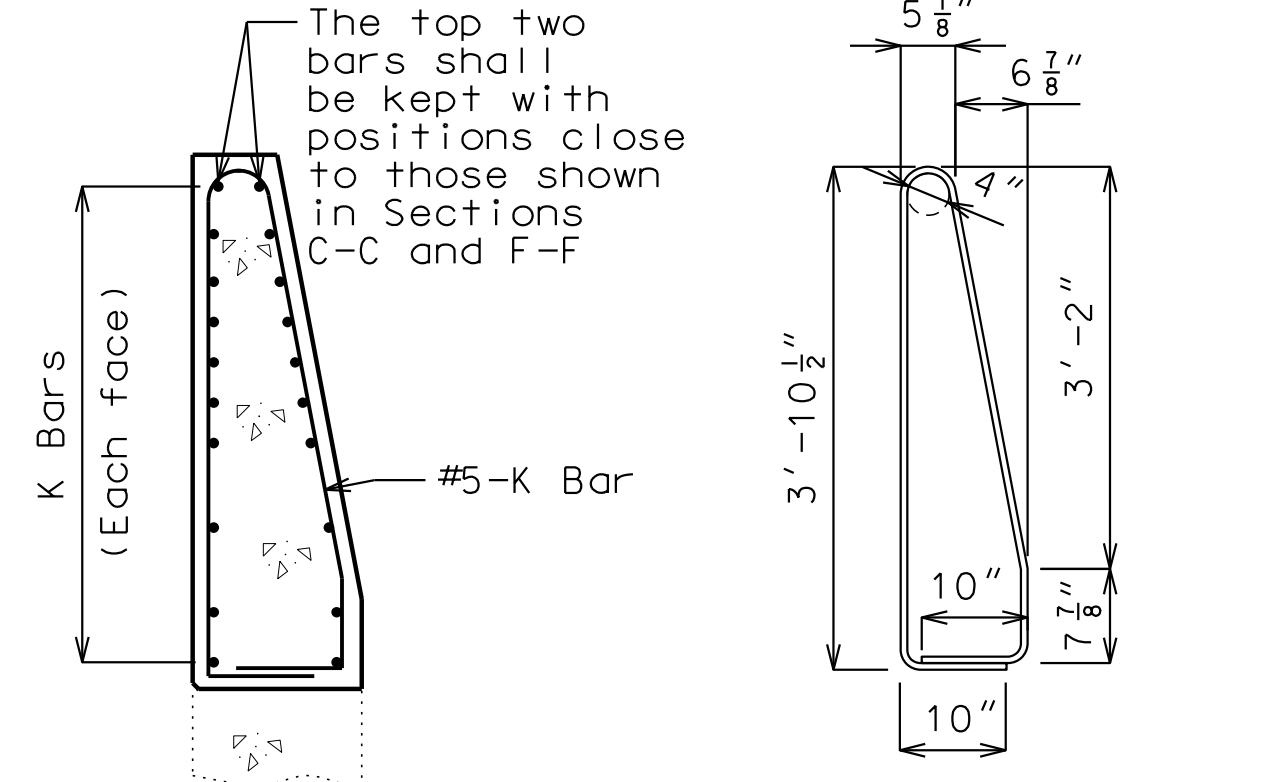
1-888-ASK-MODOT (1-888-275-6636)



* Slip-formed option only
(1) To Top of Bar

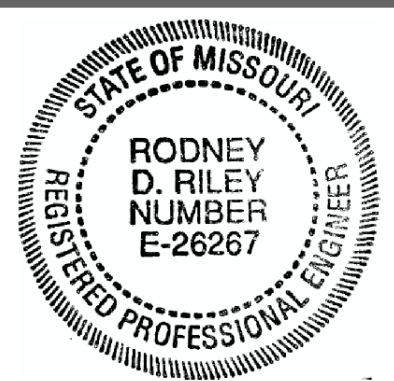
General Notes:
Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE
(Other K bars not shown for clarity)
The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

TYPE D BARRIER AT END BENTS - LEFT CURB



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 22

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODDOT (1-888-275-6636)

JACOBS ENGINEERING GROUP INC. 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REVISIONS

NO. DESCRIPTION

DATE

DATE

DATE

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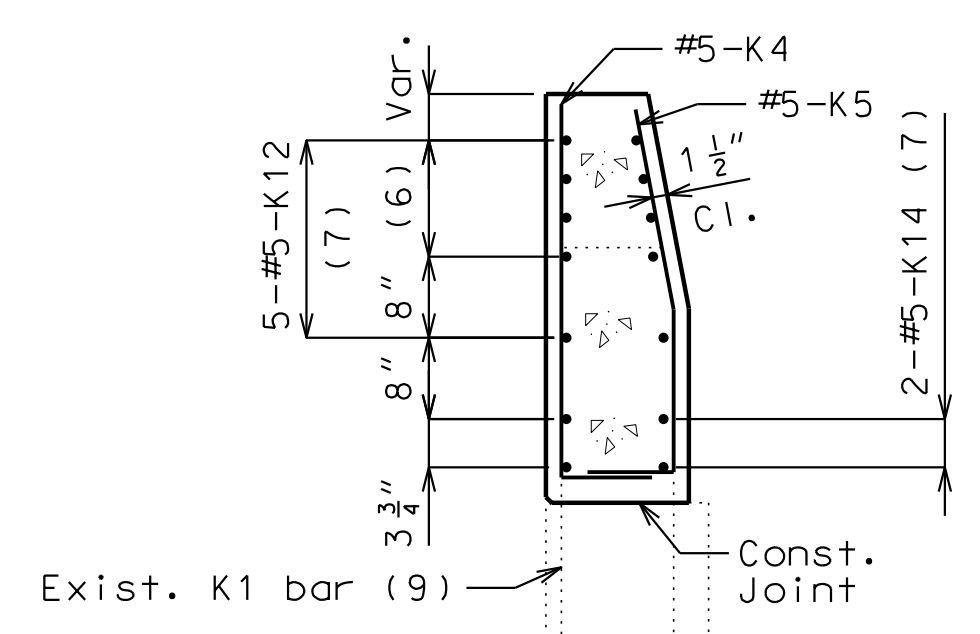
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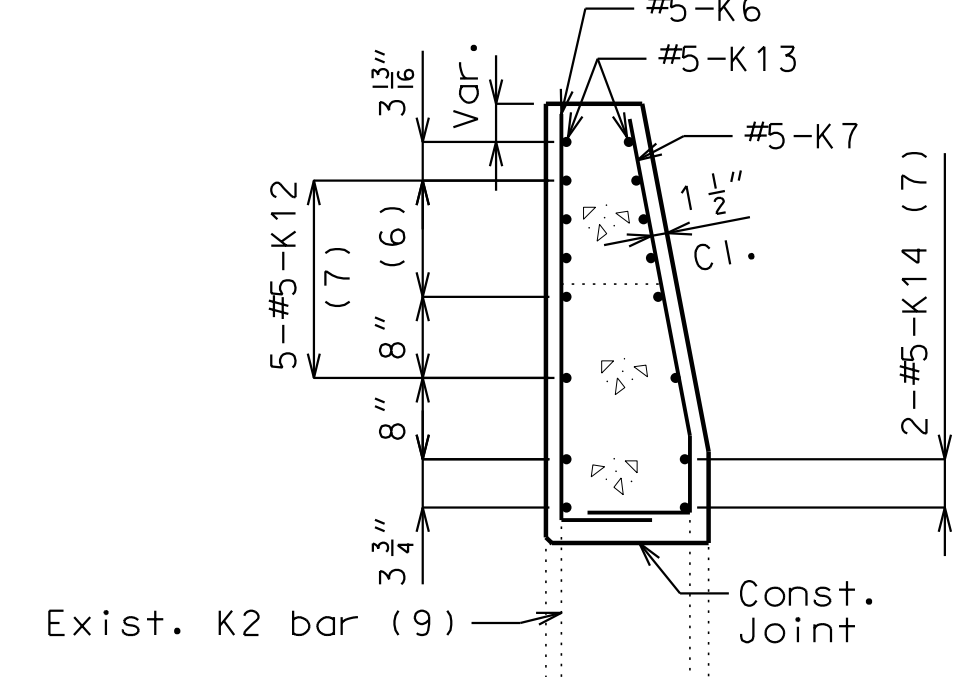
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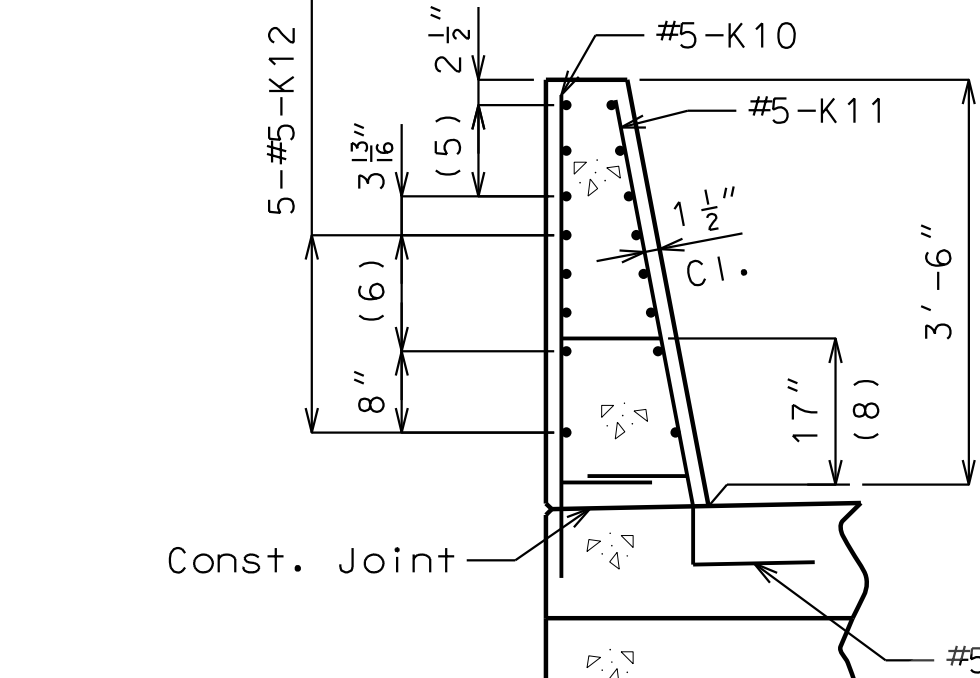
IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



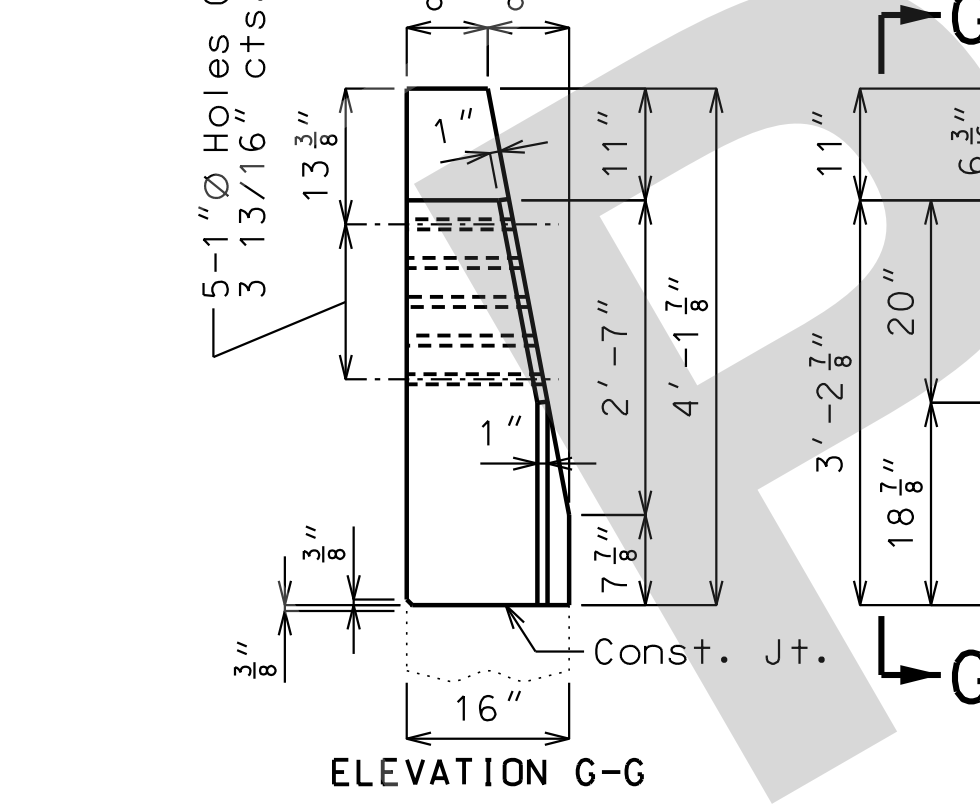
SECTION A-A



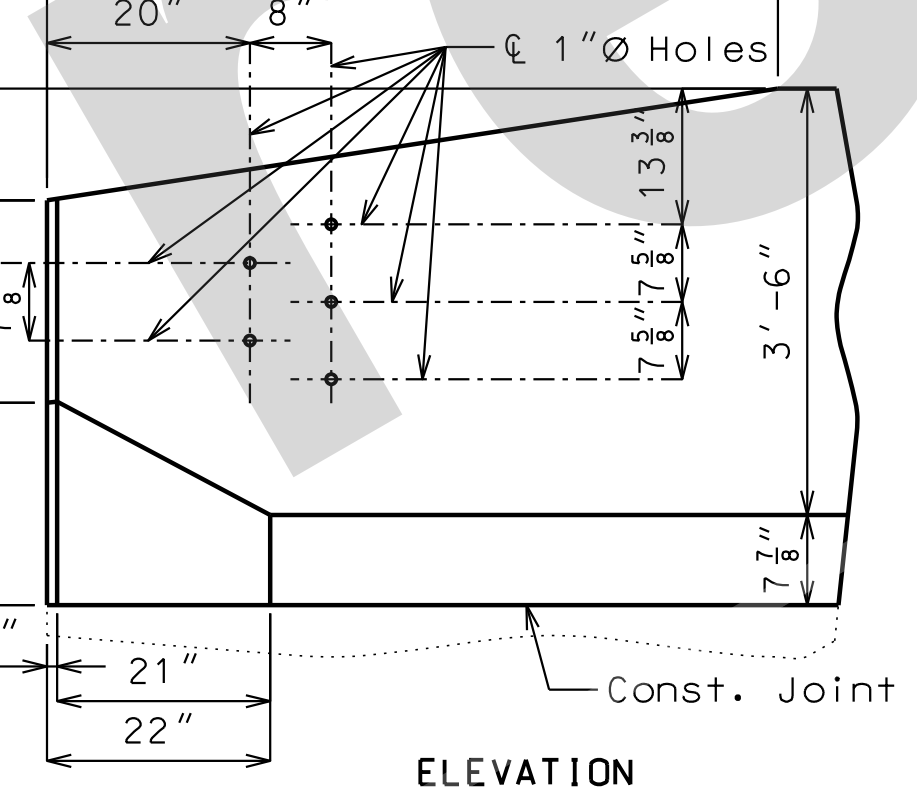
SECTION B-B



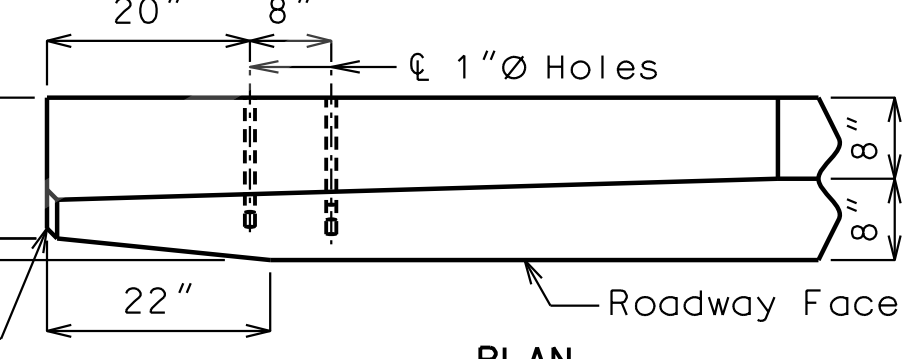
SECTION C-C



ELEVATION G-G



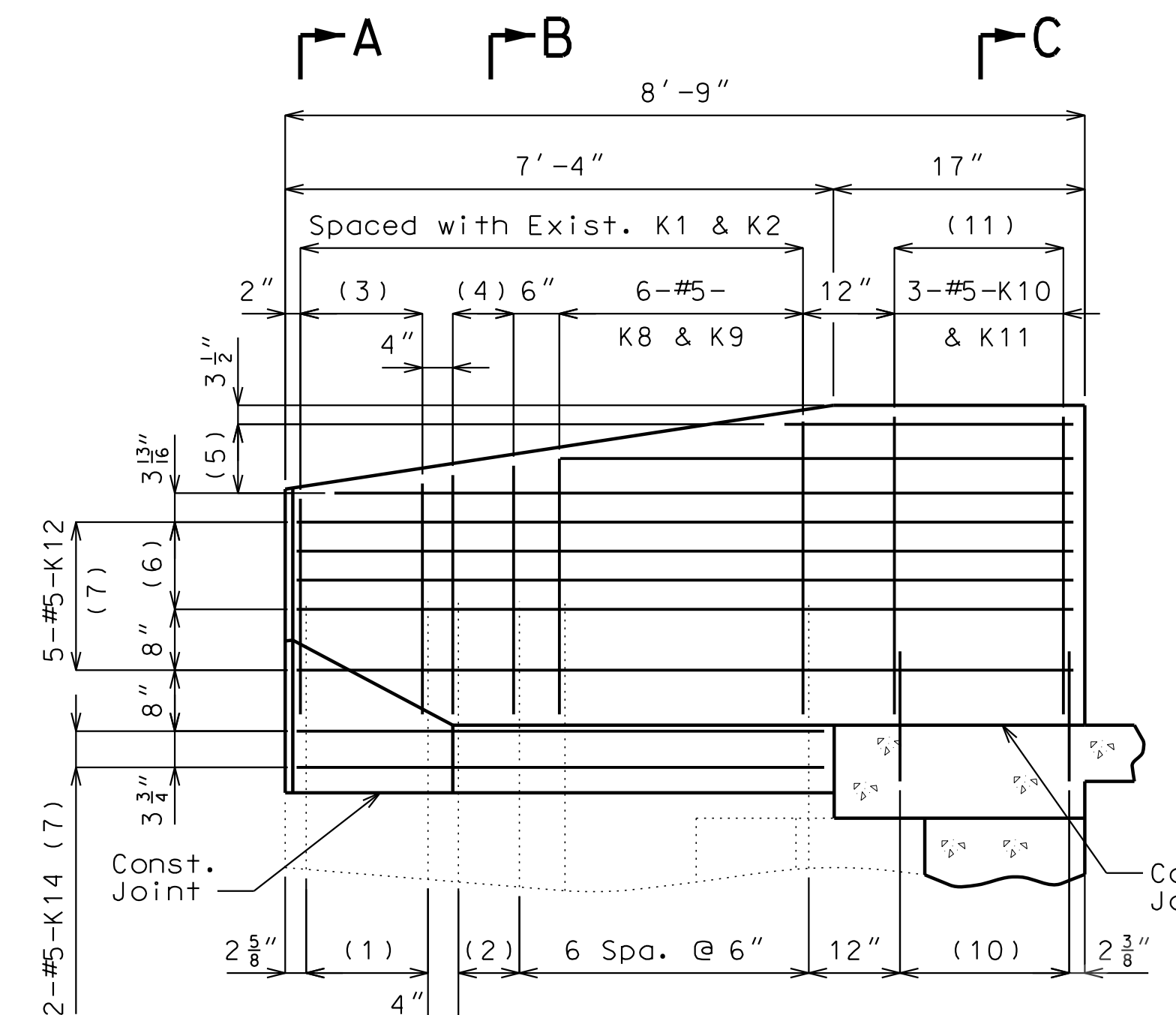
ELEVATION



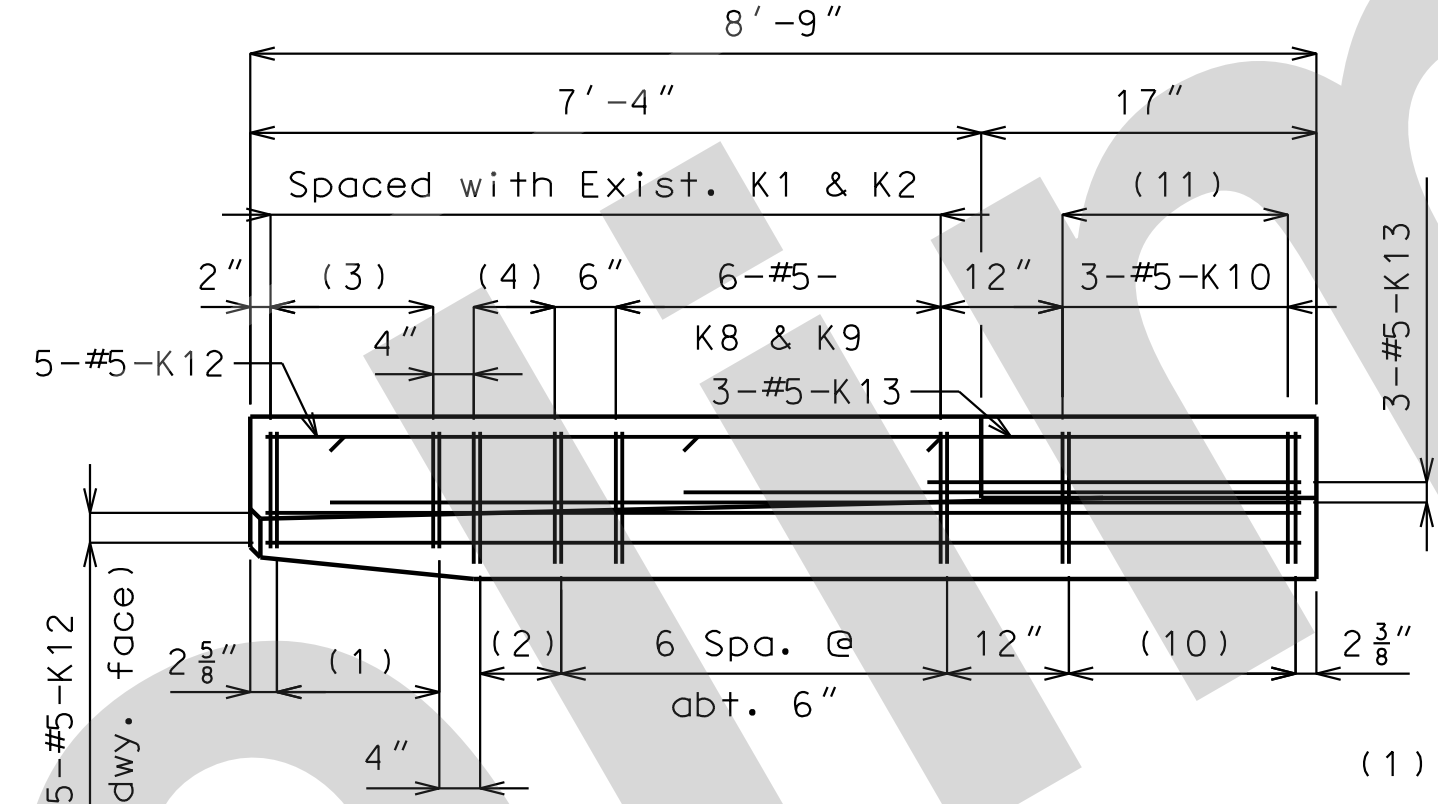
PLAN

DETAILS OF GUARD RAIL ATTACHMENT

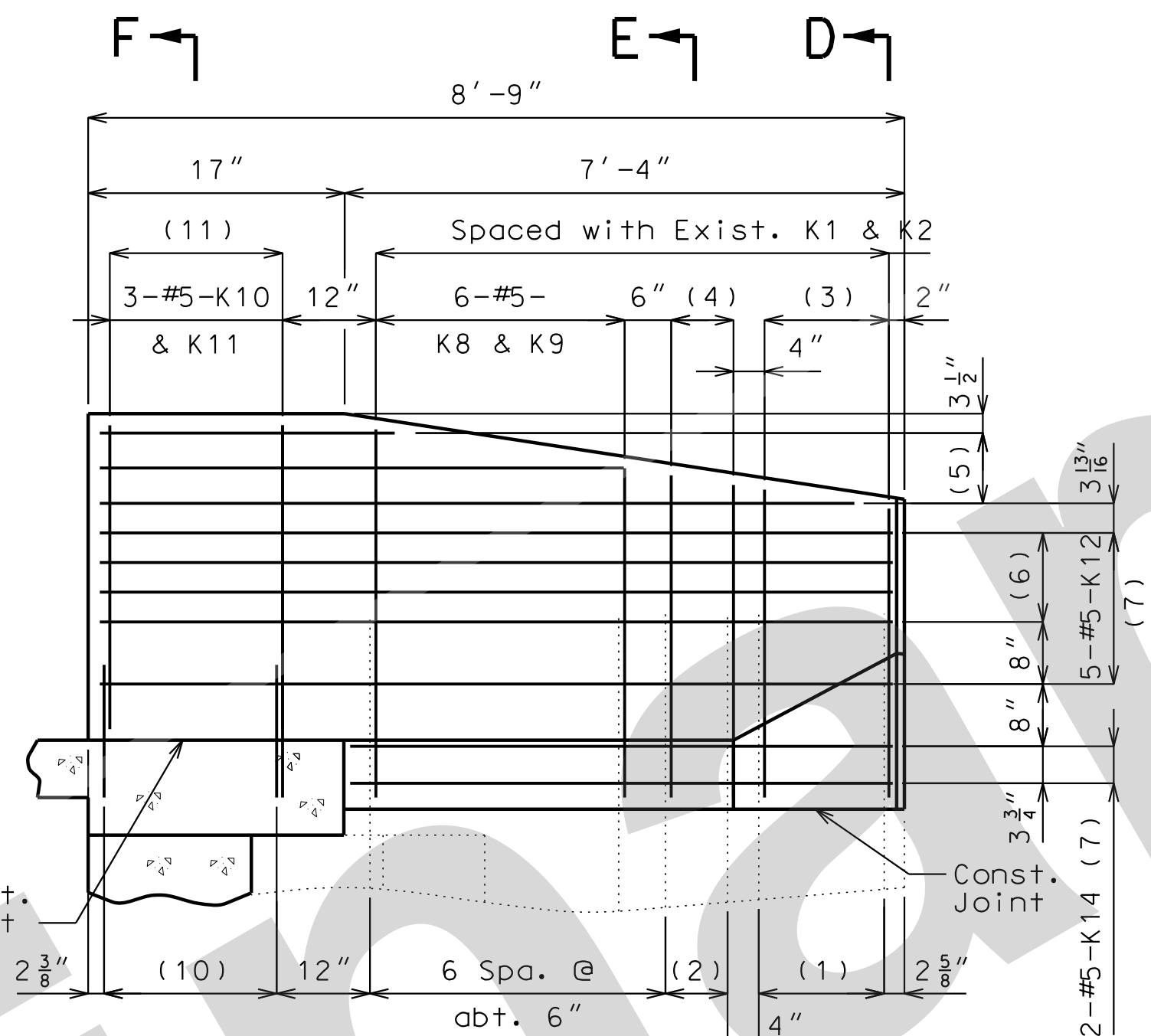
Note: This drawing is not to scale. Follow dimensions.



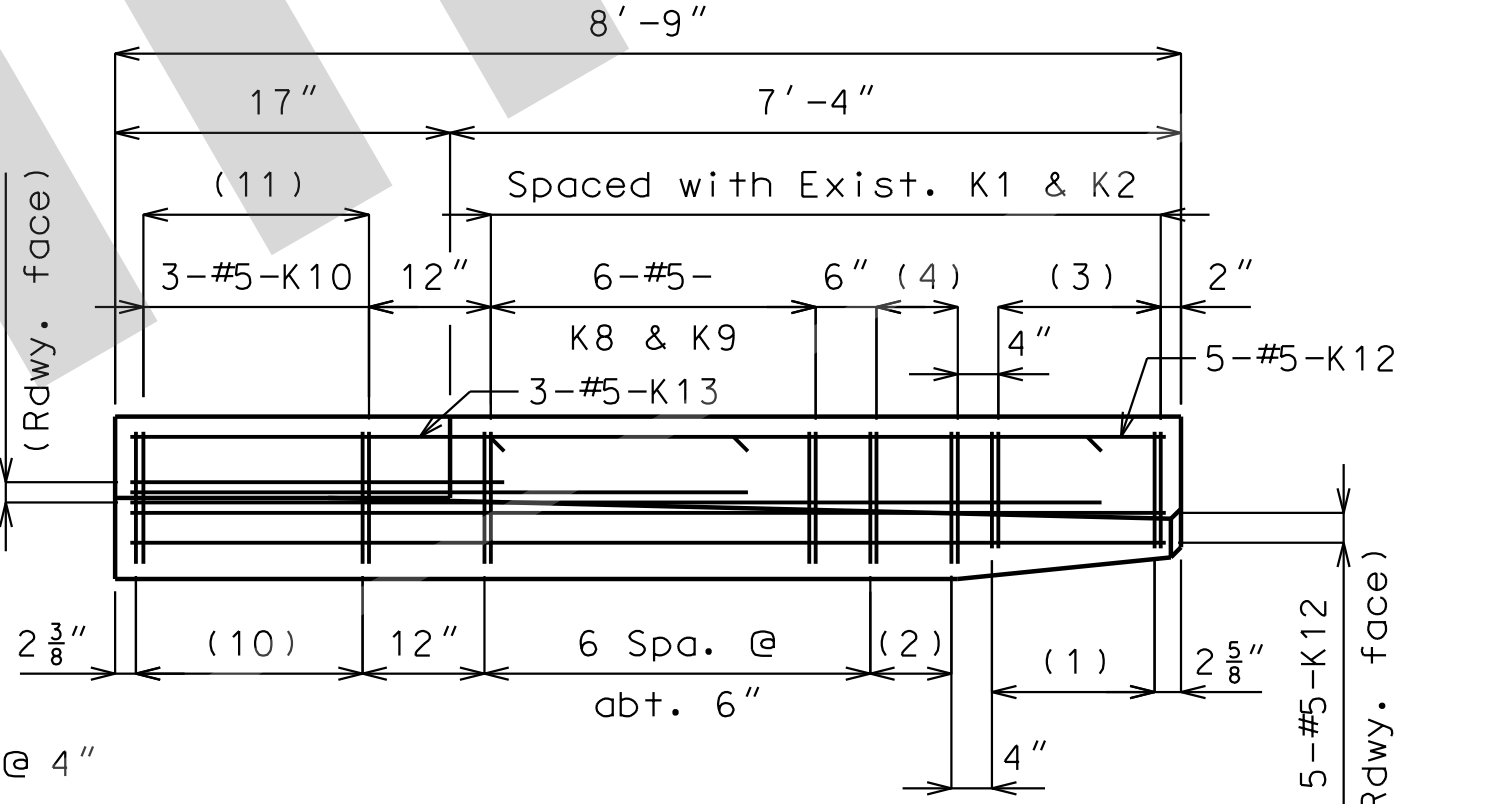
PART ELEVATION AT END BENT NO. 8



PART PLAN AT END BENT NO. 8



PART ELEVATION AT END BENT NO. 1



PART PLAN AT END BENT NO. 1

- (1) 4 spaces @ 4"
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 @ 4" cts., each face
- (6) 3 Spaces @ 3 1/16"
- (7) Spaced as shown, each face
- (8) To top of bar
- (9) Existing reinforcing bars to be cleaned and straightened.
- (10) 3-#5-K20 spaced @ 12"
- (11) Spaced with K20

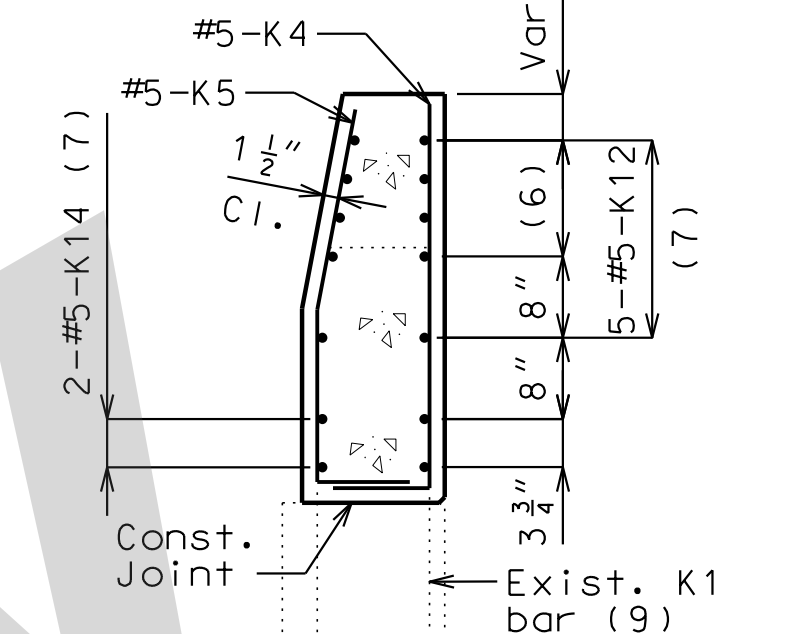
General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

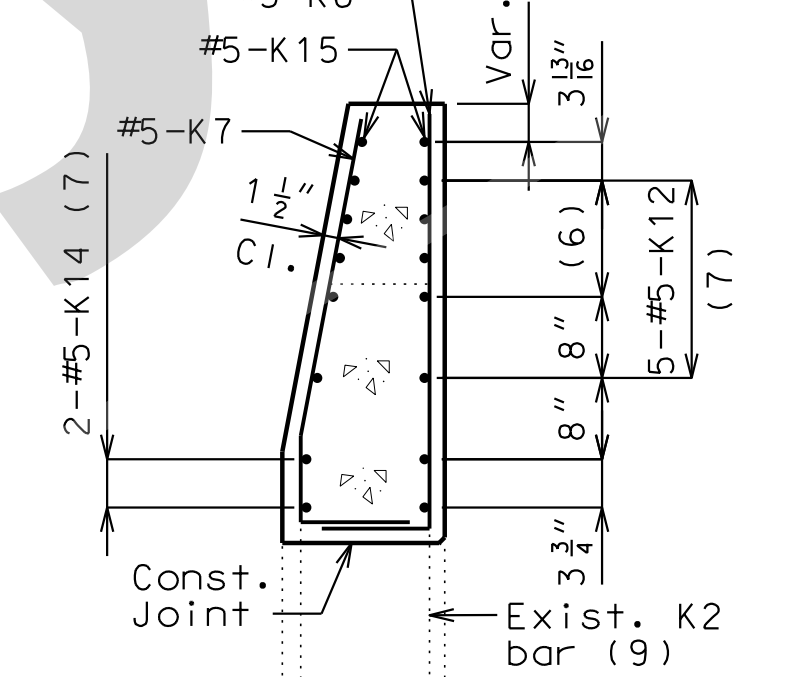
Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

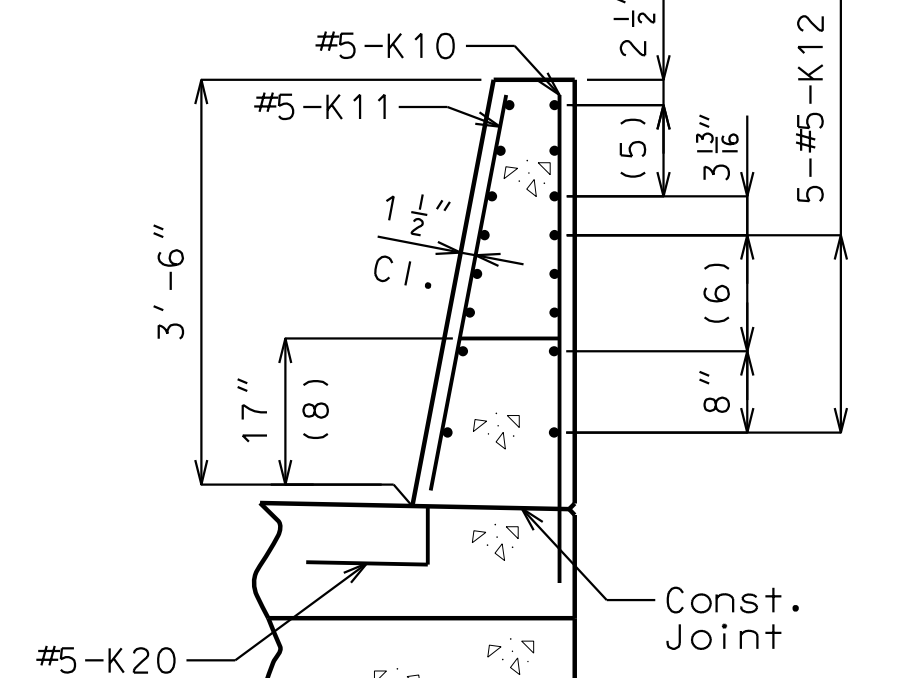
TYPE D BARRIER AT END BENTS - RIGHT CURB



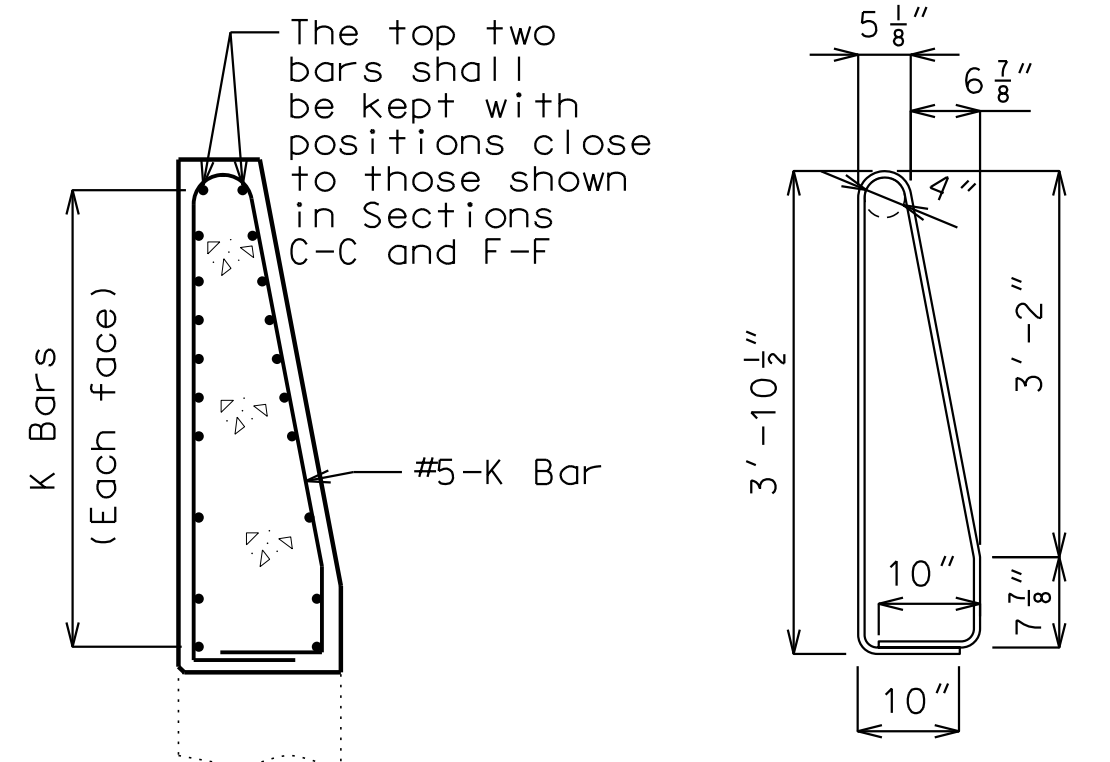
SECTION D-D



SECTION E-E



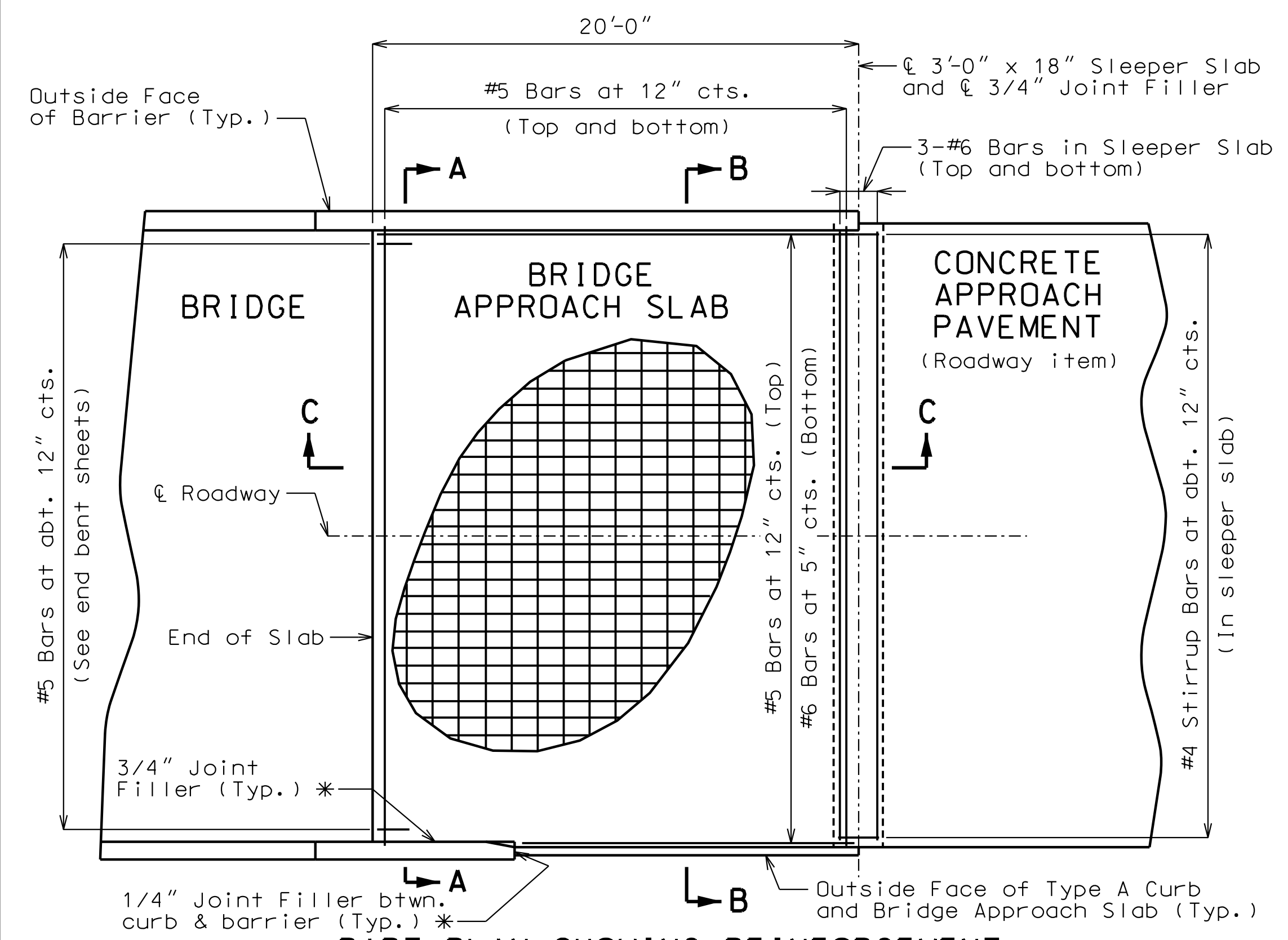
SECTION F-F



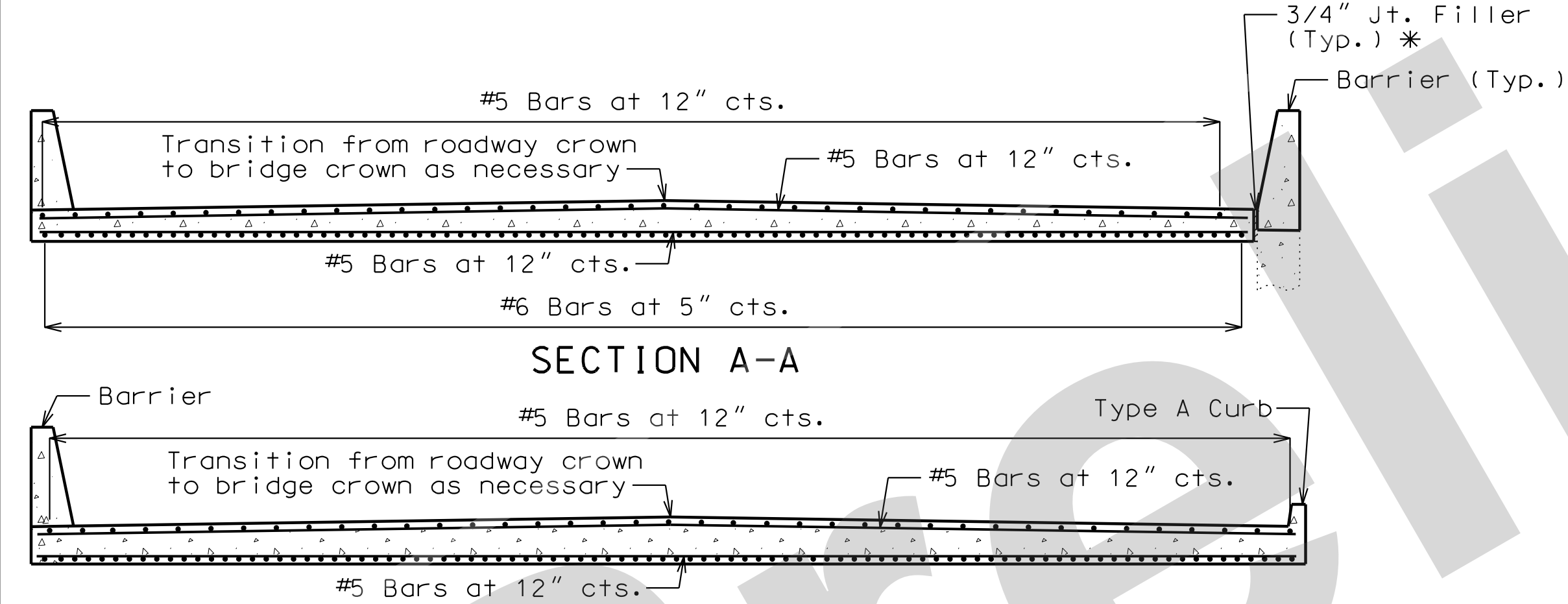
K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.



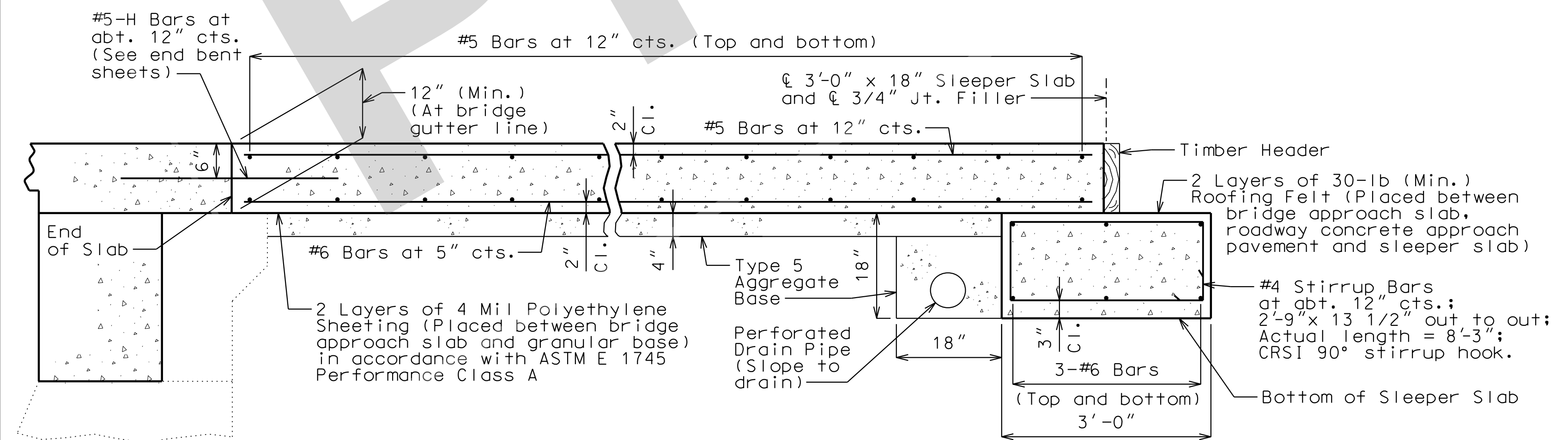
PART PLAN SHOWING REINFORCEMENT



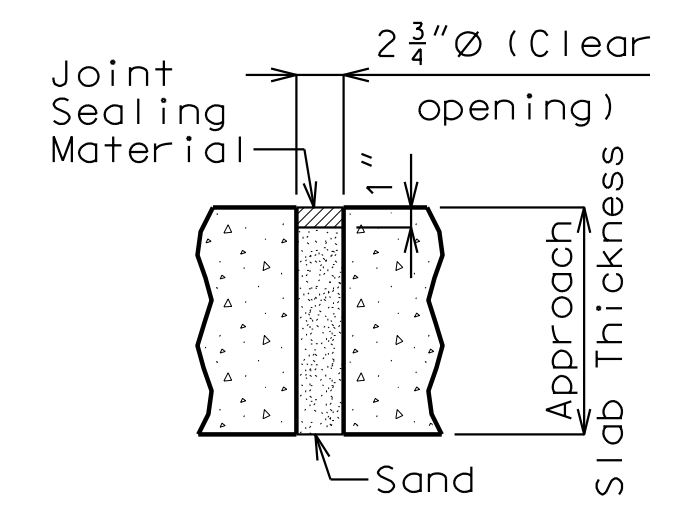
SECTION A-A

SECTION B-B

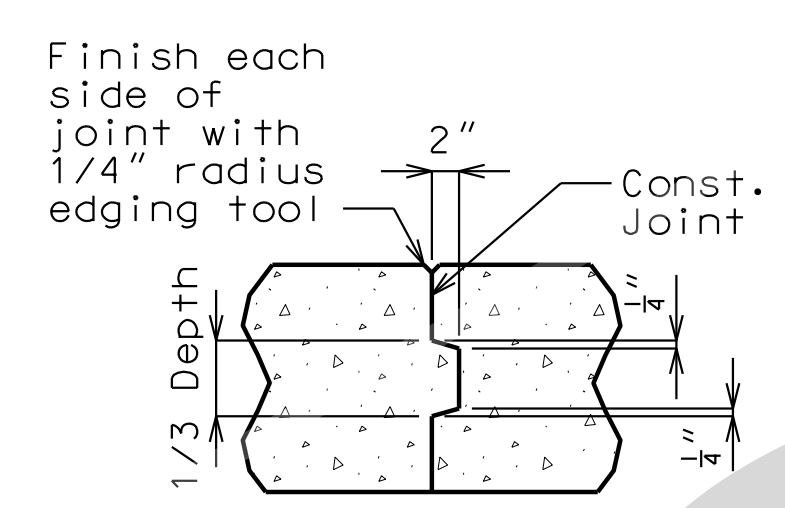
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



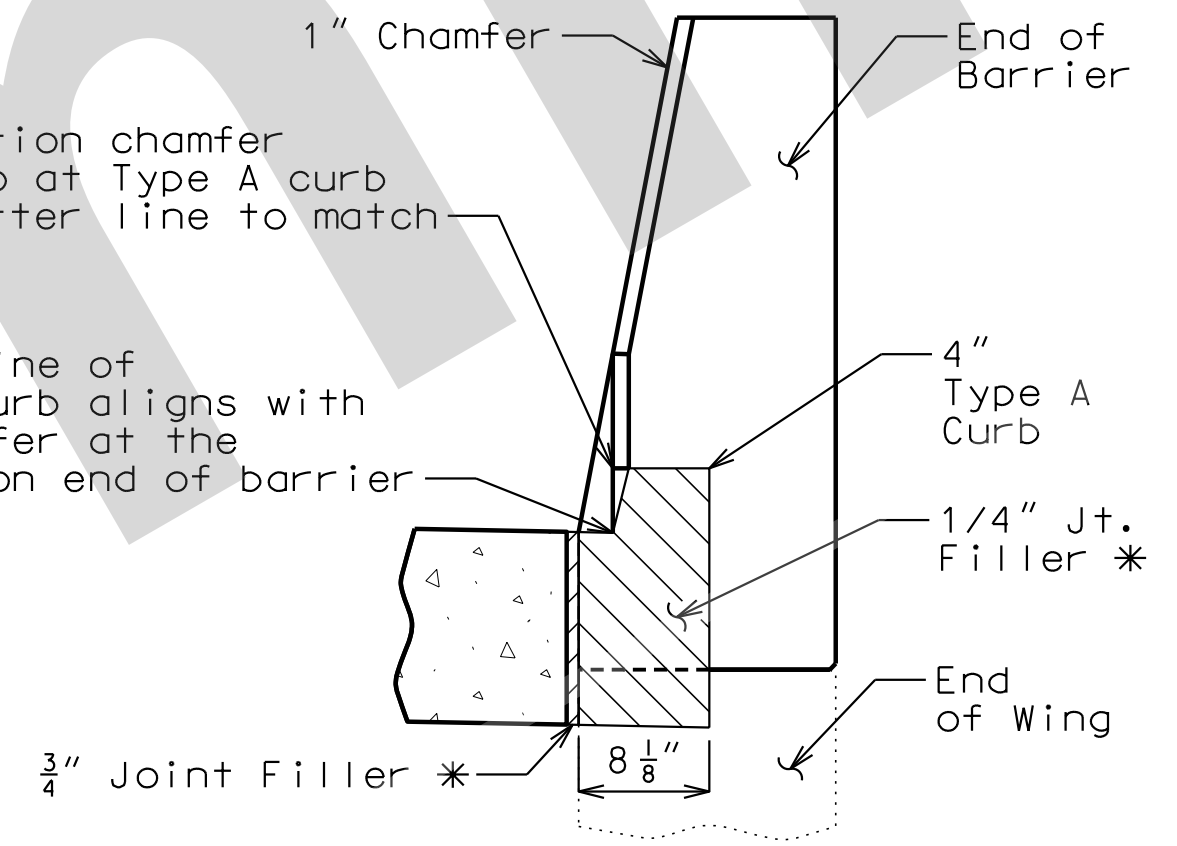
SECTION C-C



UNDERSEAL ACCESS HOLE DETAIL (If required)



CONSTRUCTION JOINT DETAIL



SECTION BETWEEN CURB AND BARRIER

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).
 The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.
 Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.
 The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice.
 Mechanical bar splices shall be in accordance with Sec 710.

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall pour and satisfactorily finish the bridge slab before placing the bridge approach slab.

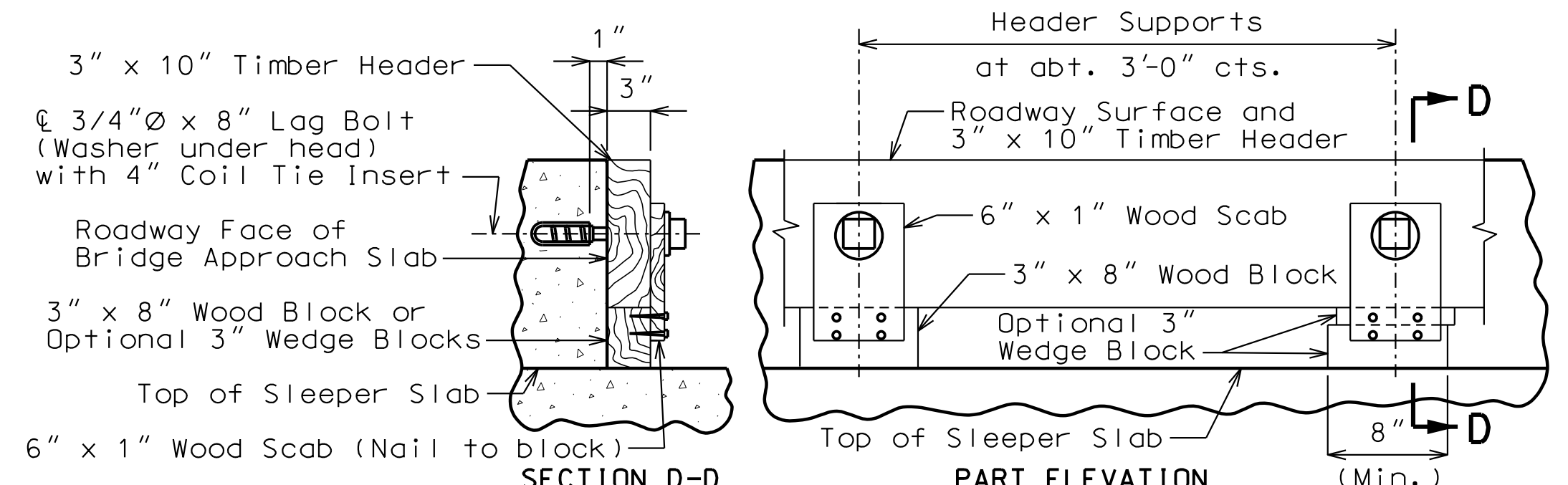
Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.



SECTION D-D DETAILS OF TIMBER HEADER

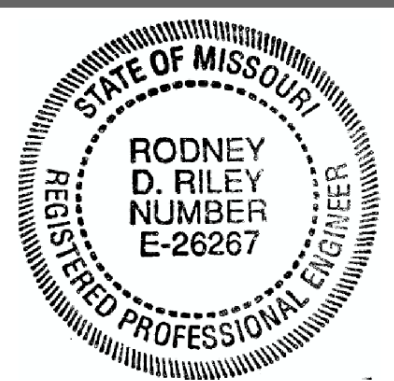
Remove timber header when concrete pavement is placed.

BRIDGE APPROACH SLAB (MAJOR) - END BENT NO. 8

Detailed July 2021
 Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 24 of 28



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 24

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

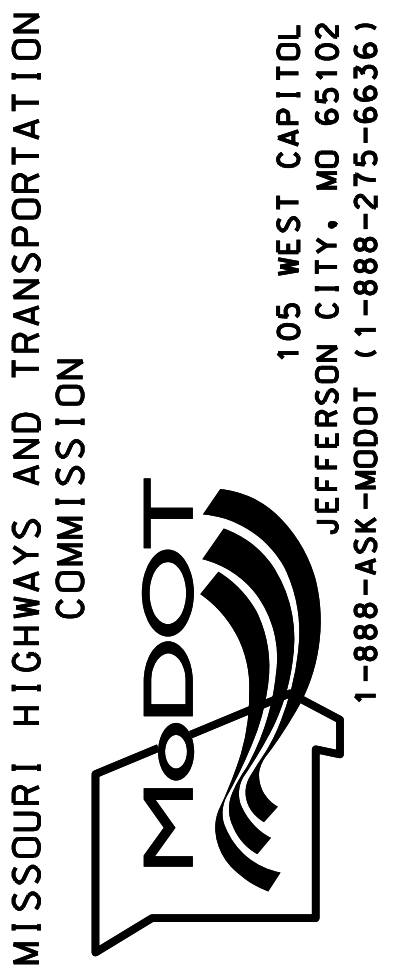
PROJECT NO.

BRIDGE NO. A10574

DESCRIPTION

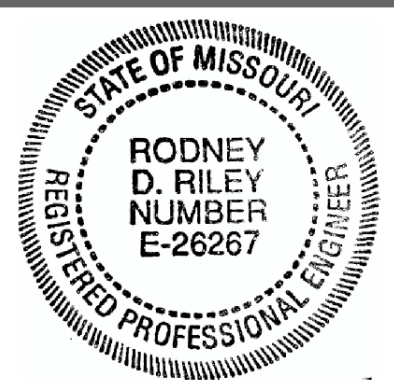
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



JACOBS
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE 94 STATE MO

DISTRICT BR SHEET NO. 25

COUNTY ST. CHARLES

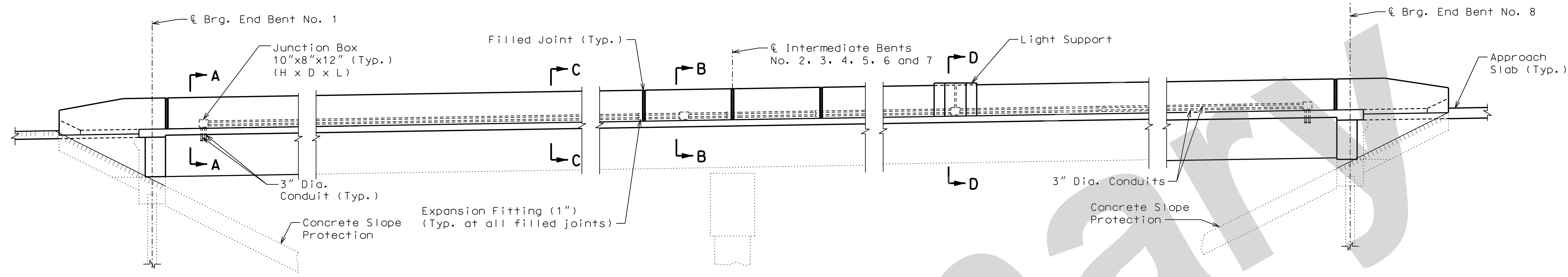
JOB NO. J6P3418

CONTRACT ID.

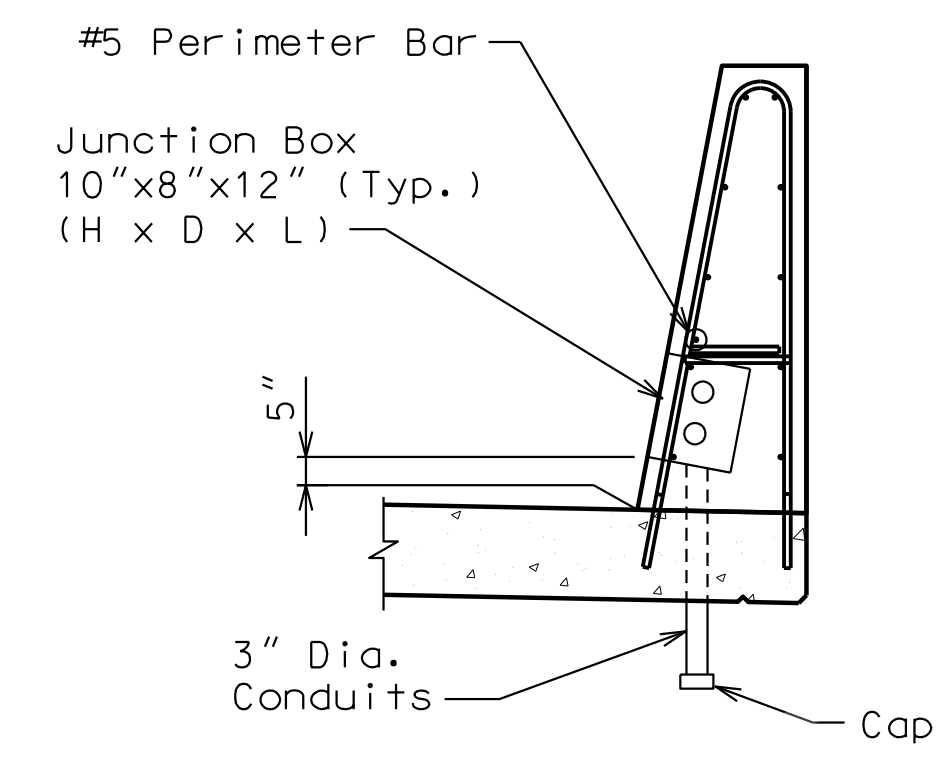
PROJECT NO.

BRIDGE NO. A10574

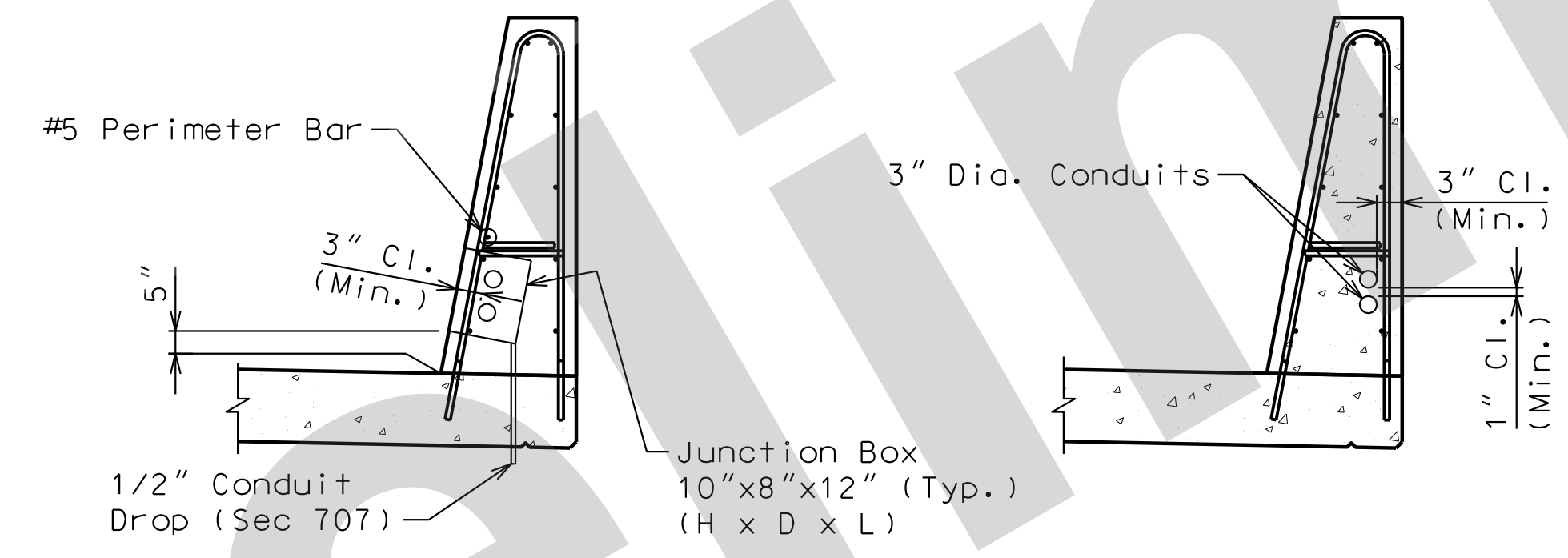
IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PART ELEVATION OF RIGHT BARRIER CURB SHOWING LOCATION OF CONDUIT



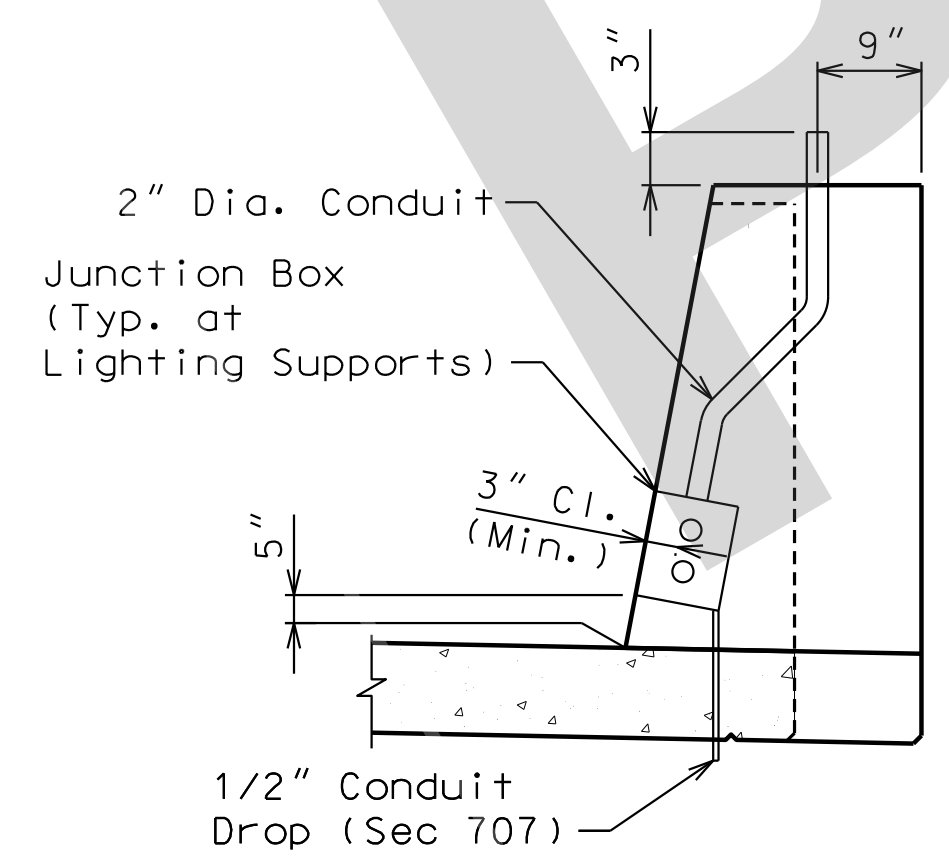
SECTION A-A



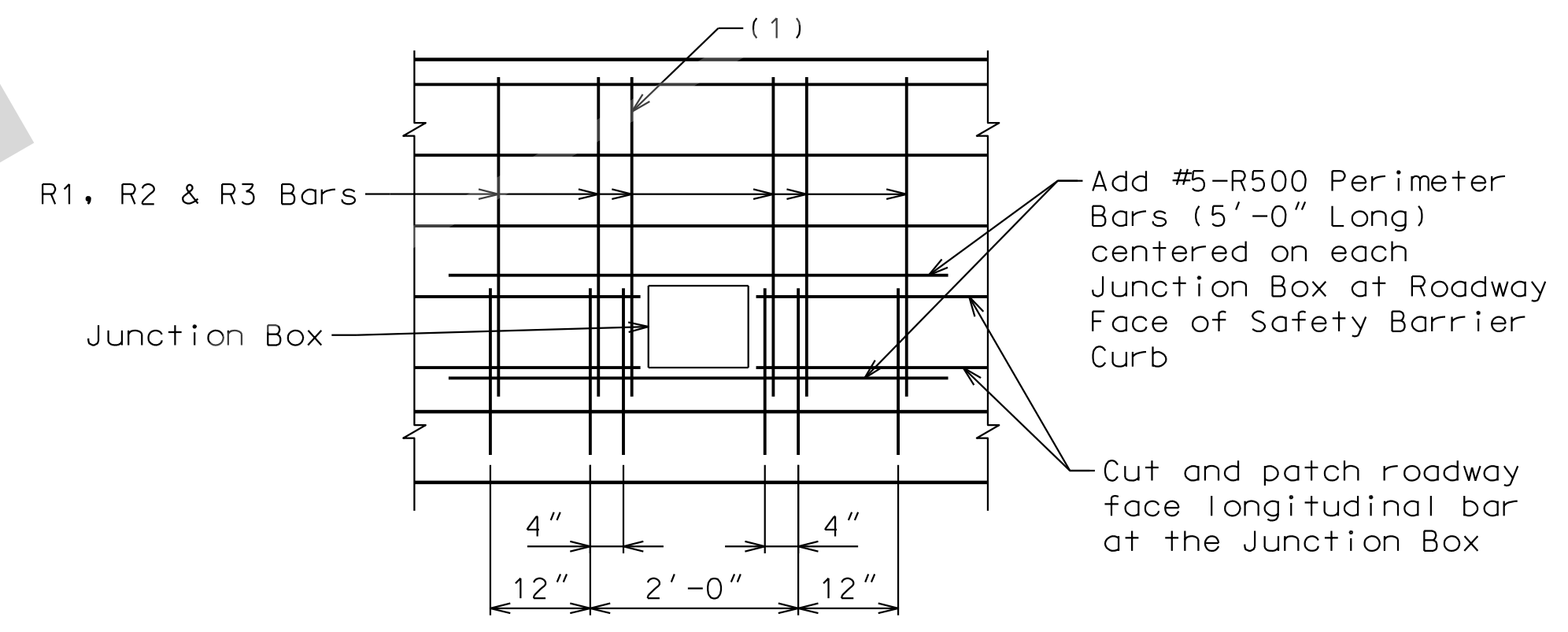
SECTION B-B

SECTION C-C

(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers.



SECTION D-D



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements.

The Bill of Reinforcing Steel includes 10 extra R1, R2, and R3 bars for placement at Junction Boxes, 2 per Junction Box.

DETAILS OF CONDUIT SYSTEM

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 25 of 28

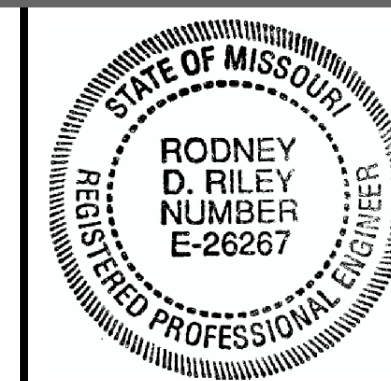
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 26

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10574

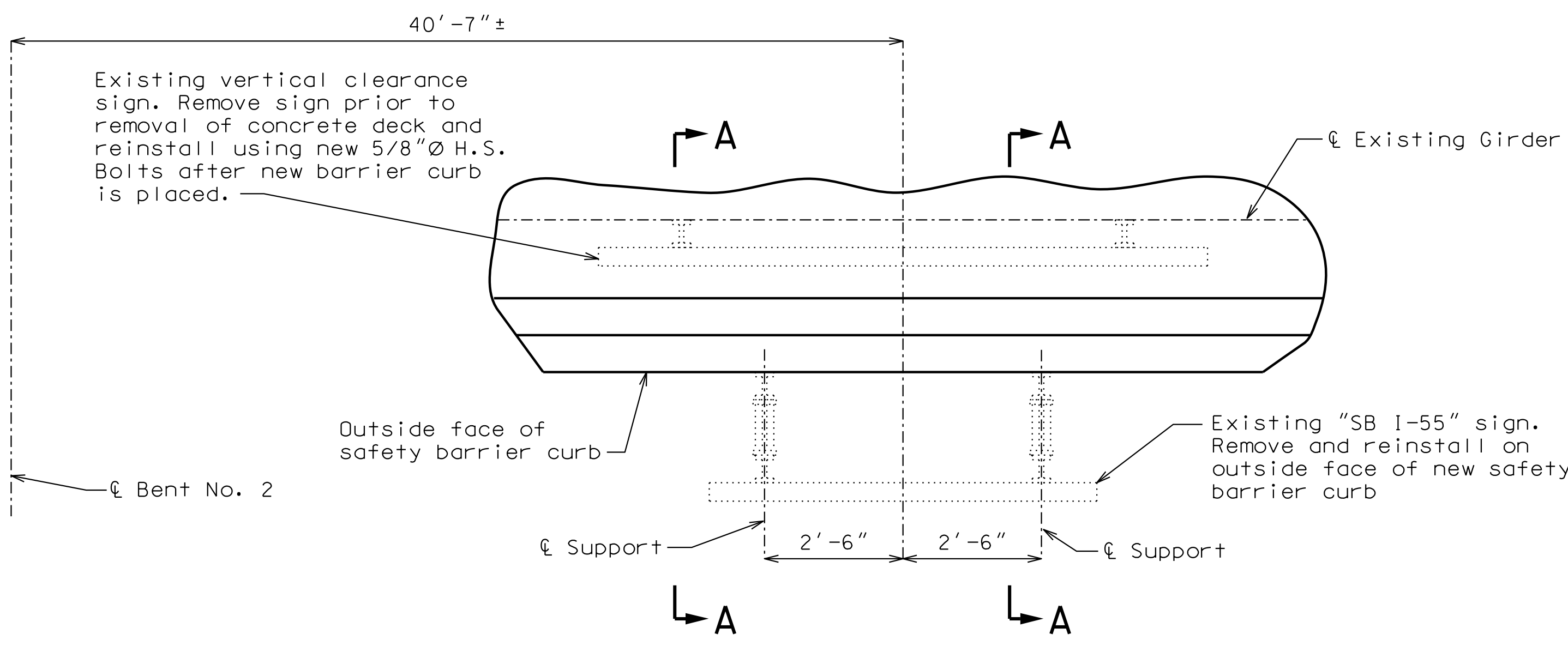
REVISIONS

NO.	DATE	DESCRIPTION

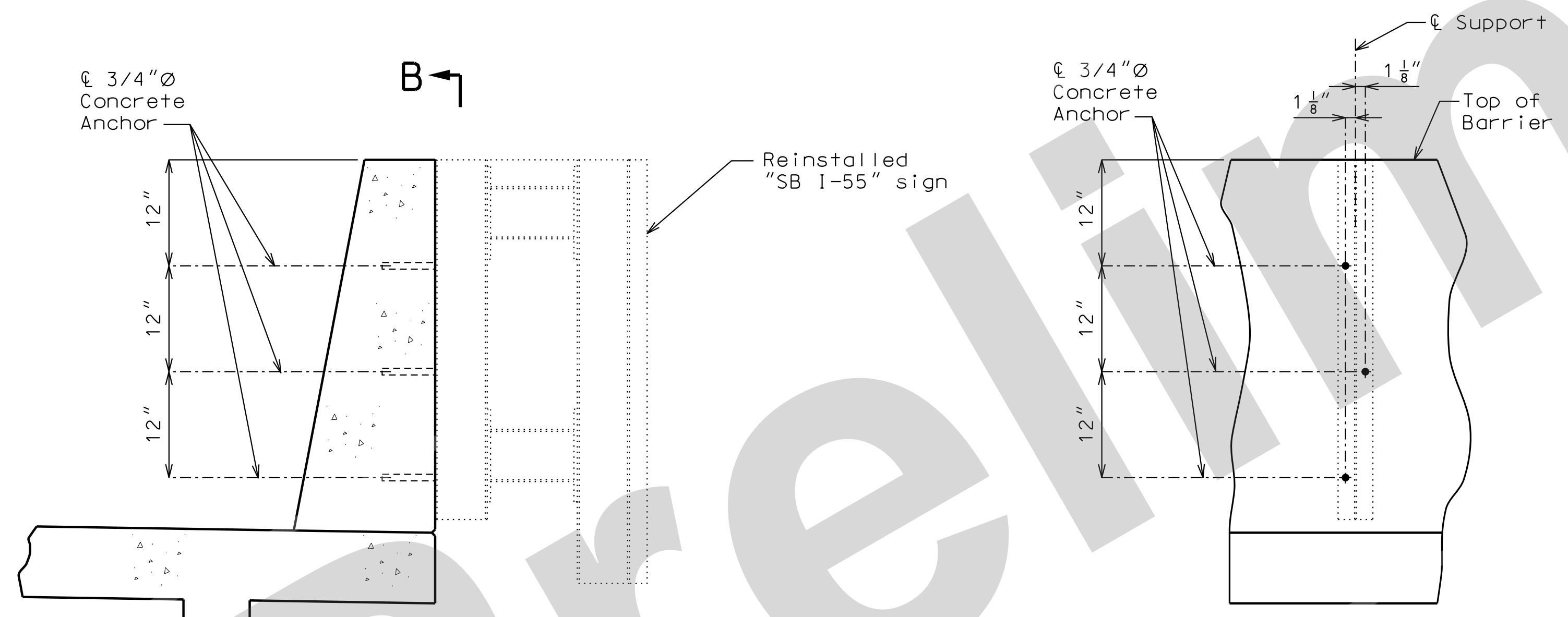
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

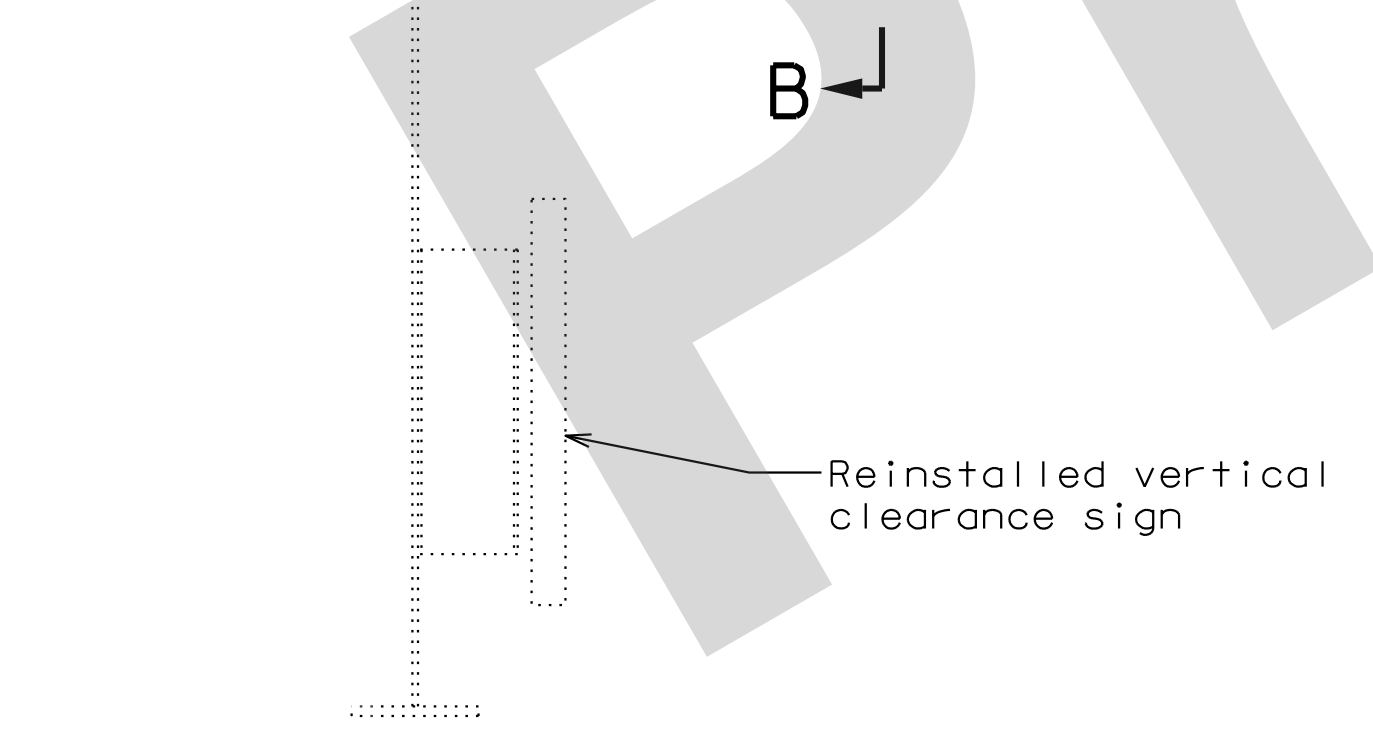
Jacobs
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901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



PART PLAN SHOWING SIGN LOCATION - SPAN (2-3)



SECTION B-B



SECTION A-A

Notes:

Existing "SB I-55" sign shall be reinstalled level.

All bolts, nuts and washers shall be galvanized.

The cost of removal and reinstallation of existing signage, including bolts, nuts & washers, and concrete anchors, complete-in-place will be considered completely covered by the contract unit price for Fabricated Structural Low Alloy Steel (Misc.).

Concrete anchors shall be the non-drilling expansion type and shall have a certified concrete pullout strength (Ultimate Load) of 12,100 pounds (min.) in 4,000 psi concrete. The hole shall be pre-drilled with a conventional carbide masonry bit.

Bolt threads shall be burred after signs have been installed.

SIGN SUPPORT DETAILS

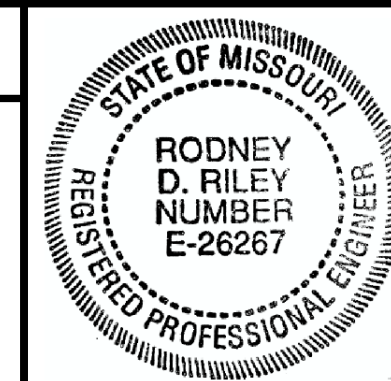
Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 26 of 28

U.I.P., REDECK AND REHABILITATE EXISTING (35') SIMPLE COMPOSITE WIDE FLANGE GIRDER SPAN
 (85.5' - 99' - 99' - 99' - 85.5') CONTINUOUS COMPOSITE PLATE GIRDER SPANS (38') SIMPLE COMPOSITE WIDE FLANGE BEAM SPANS (SKEW: SQUARE)

SEC/SUR 3102 TWP 44N RGE 7E



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

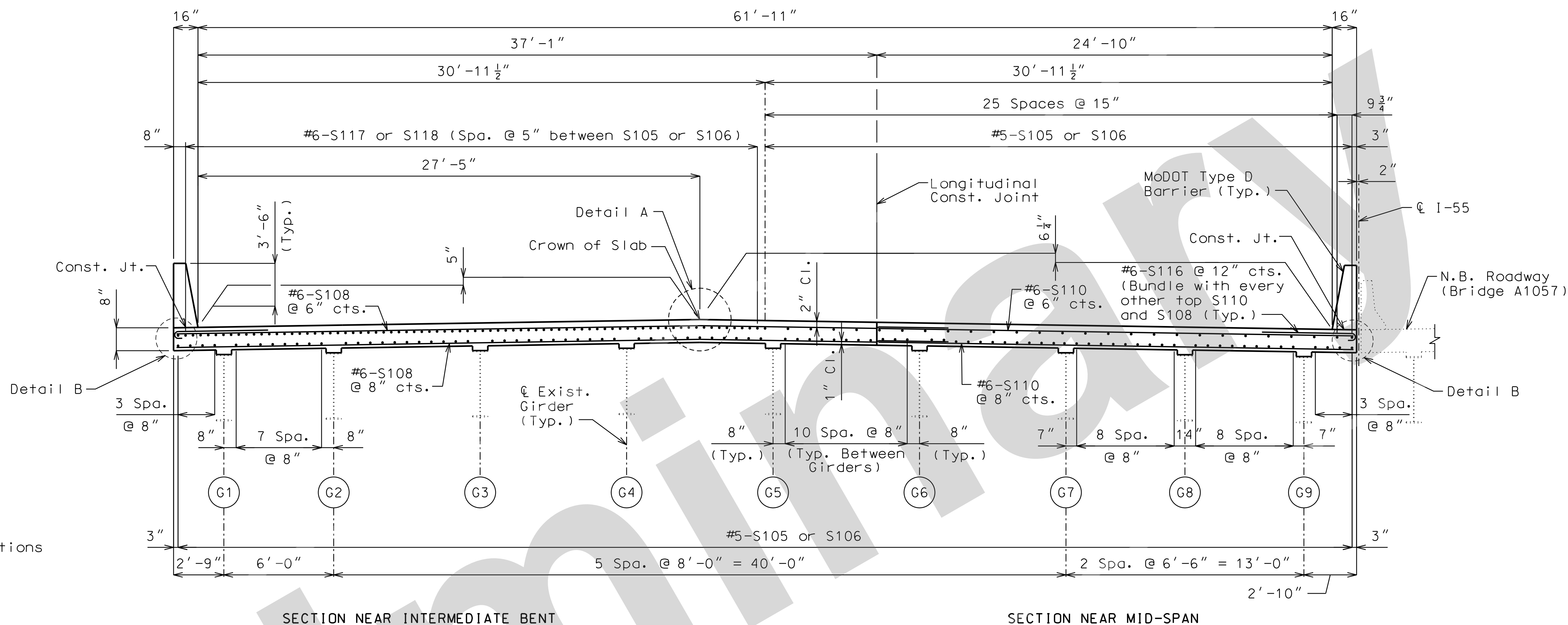
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

Required Lap Length For Bar Splices (1)	
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.



SECTION NEAR INTERMEDIATE BENT

SECTION NEAR MID-SPAN

TYPICAL SECTION THRU ROADWAY SPANS 2-3 THRU 6-7 SHOWN SPANS 1-2 AND 7-8 SIMILAR

General Notes:

Design Specifications:

2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:

HS20-44 Modified (1961)
 HS20-44 (1983 and 2021)
 No allowance for future wearing surface

Design Unit Stresses:

Class B-1 Concrete (Barrier) $f'_c = 4,000$ psi
 Class B-2 Concrete (End Bents & Superstructure except Barrier) $f'_c = 4,000$ psi
 Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
 Structural Steel (ASTM A709 Grade 50) $f_y = 50,000$ psi

Joint Filler:

All joint filler shall be in accordance with Sec.1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Miscellaneous:

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

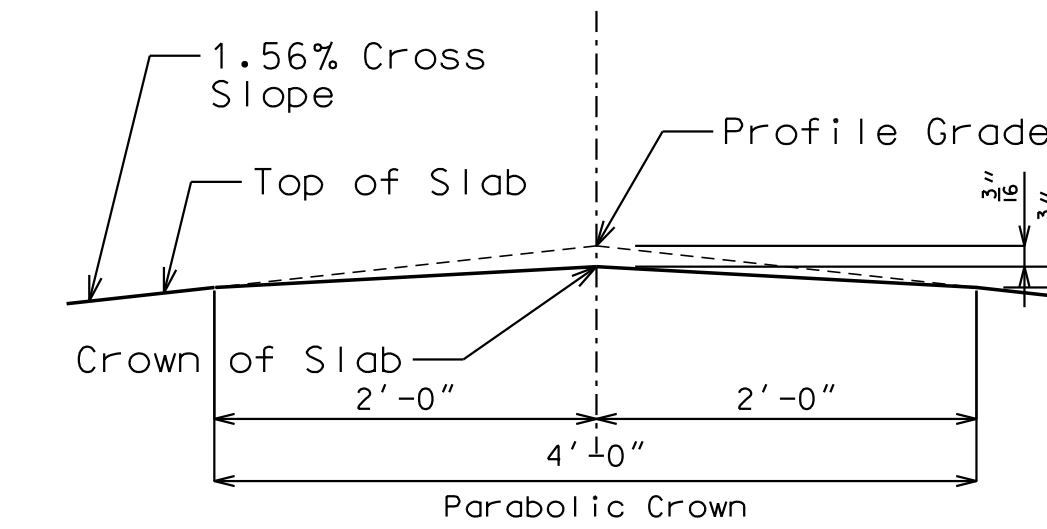
Longitudinal dimensions are based on the original design plans.

Contractor shall verify all dimensions in field before ordering new material.

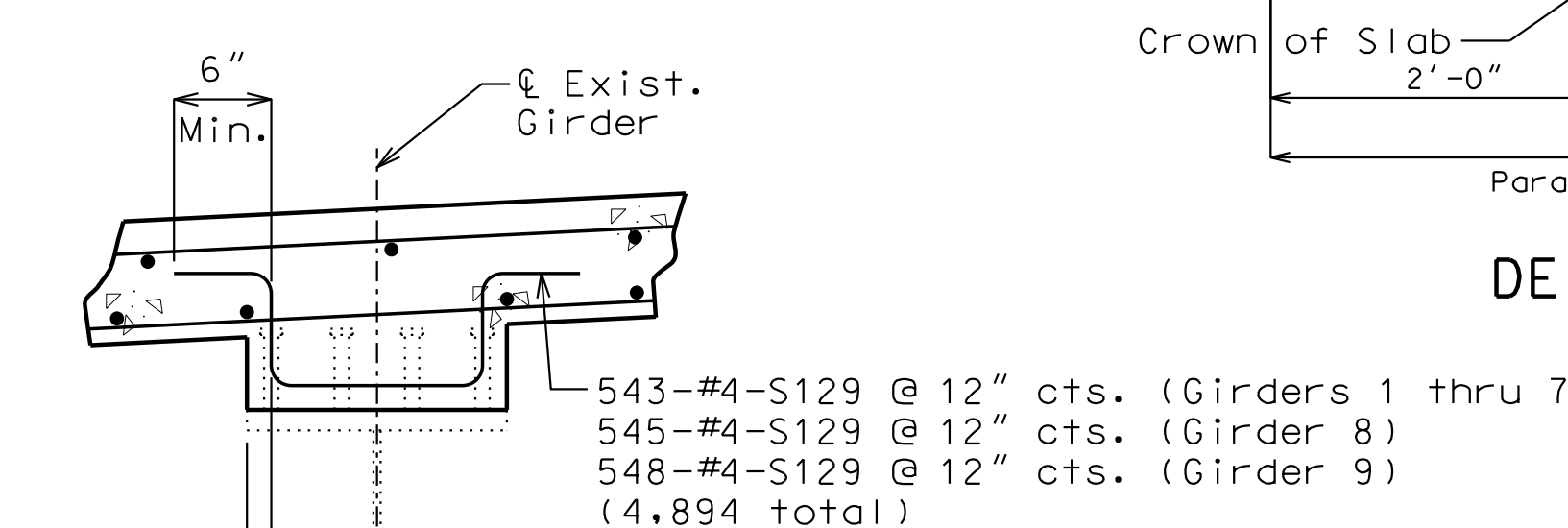
The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

Traffic Handling:

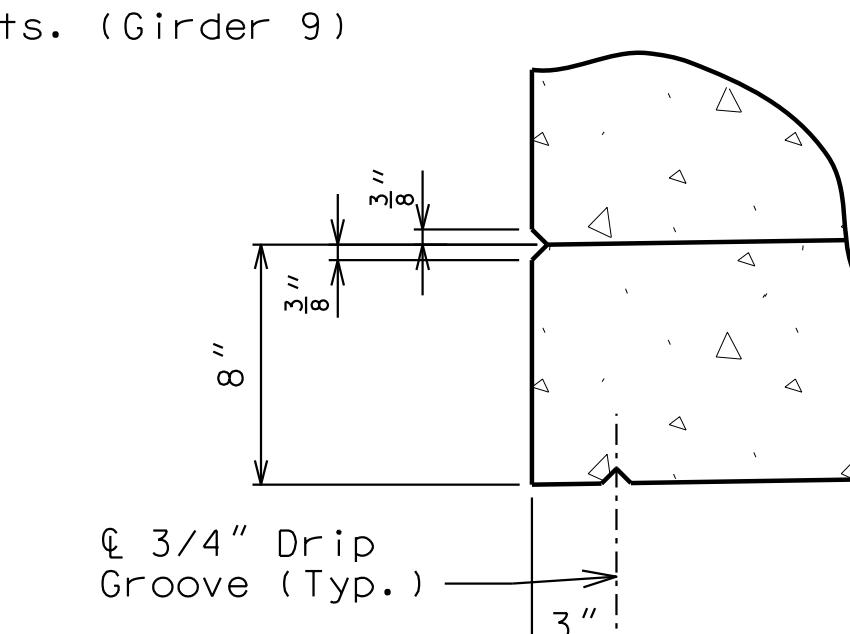
Structure to be closed during construction. Traffic to be maintained on northbound structure. See roadway plans for traffic control.



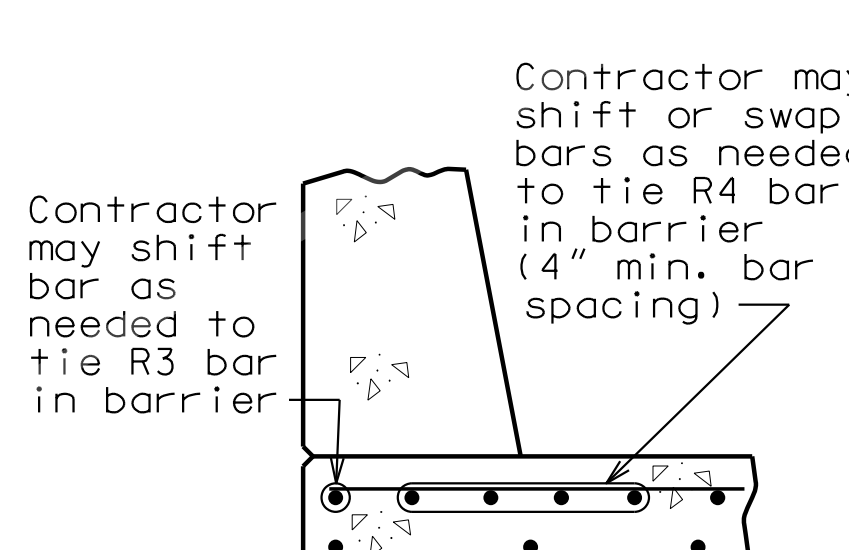
DETAIL A



SECTION THRU HAUNCH



DETAIL B



OPTIONAL SHIFTING TOP BARS AT BARRIER

REPAIRS TO BRIDGE:
 ROUTE I-55 SB OVER RIVER DES PERES
 ROUTE I-55 FROM ROUTE I-44 TO ROUTE I-270,
 ABOUT 5.6 MILES SOUTH OF ROUTE I-44
 STA. 462+91.12± (MATCH EXISTING)

General Notes:

Stay-In-Place Forms:

Corrugated steel forms, supports, closure elements and accessories shall be in accordance with grade requirement and coating designation G165 of ASTM A653. Complete shop drawings of the permanent steel deck forms shall be required in accordance with Sec 1080.

Corrugations of stay-in-place forms shall be filled with an expanded polystyrene material. The polystyrene material shall be placed in the forms with an adhesive in accordance with the manufacturer's recommendations.

Form sheets shall not rest directly on the top of beam flanges. Sheets shall be securely fastened to form supports with a minimum bearing length of one inch on each end. Form supports shall be placed in direct contact with the flange. Welding on or drilling holes in the beam flanges will not be permitted. All steel fabrication and construction shall be in accordance with Sec 1080 and 712. Certified field welders will not be required for welding of the form supports.

The design of stay-in-place corrugated steel forms is per manufacturer which shall be in accordance with Sec 703 for false work and forms. Maximum actual weight of corrugated steel forms allowed shall be 4 psf assumed for beam loading.

Pouring and Finishing Slab:

The contractor shall determine dead load deflections and haunching based on field measurements and/or existing bridge plans and these may be adjusted based on the difference between the new and existing dead load weights.

The contractor shall provide bracing necessary for lateral and torsional stability of the beams during construction of the concrete slab and remove the bracing after the slab has attained 75% design strength. Contractor shall not weld on or drill holes in the beams. The cost for furnishing, installing, and removing bracing will be considered completely covered by the contract unit price for Slab on Steel.

Slab shall be poured upgrade from end to end at a minimum rate of 25 cubic yards per hour.

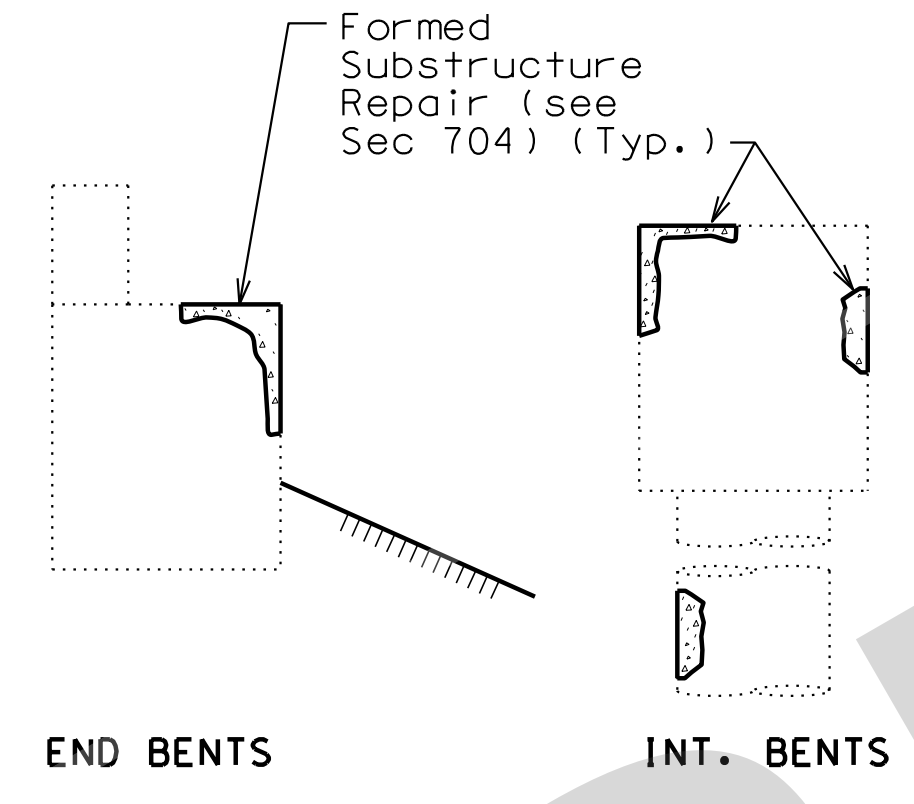
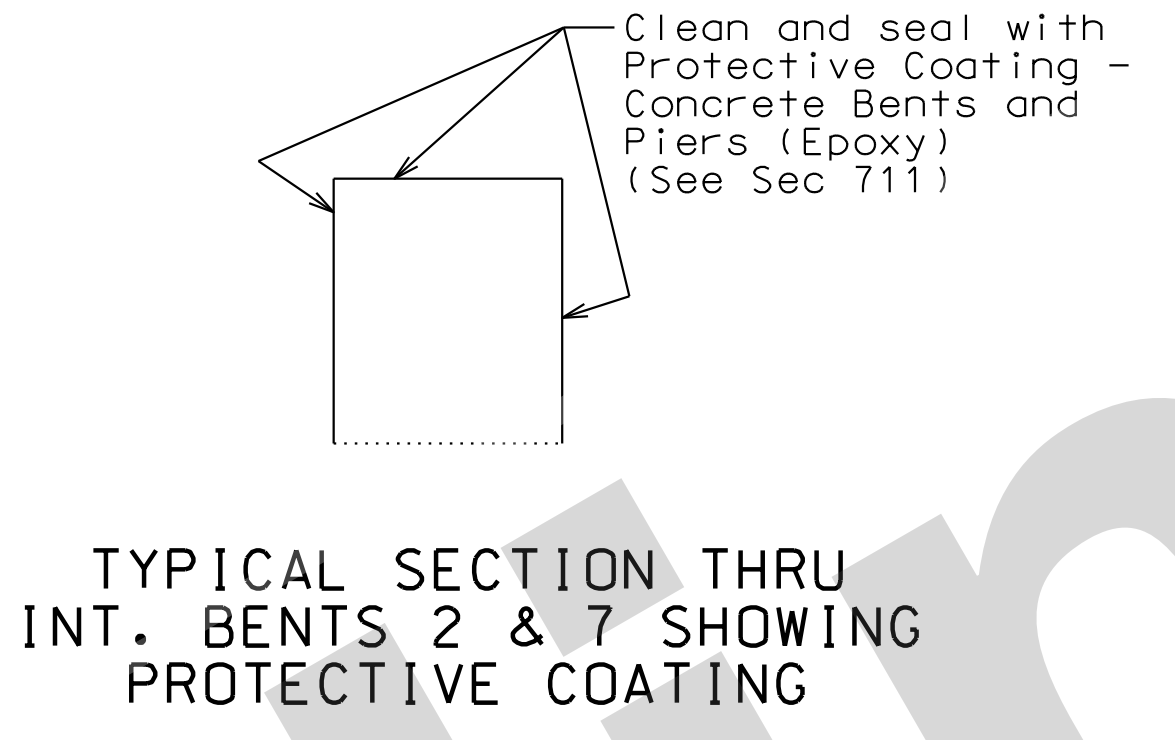
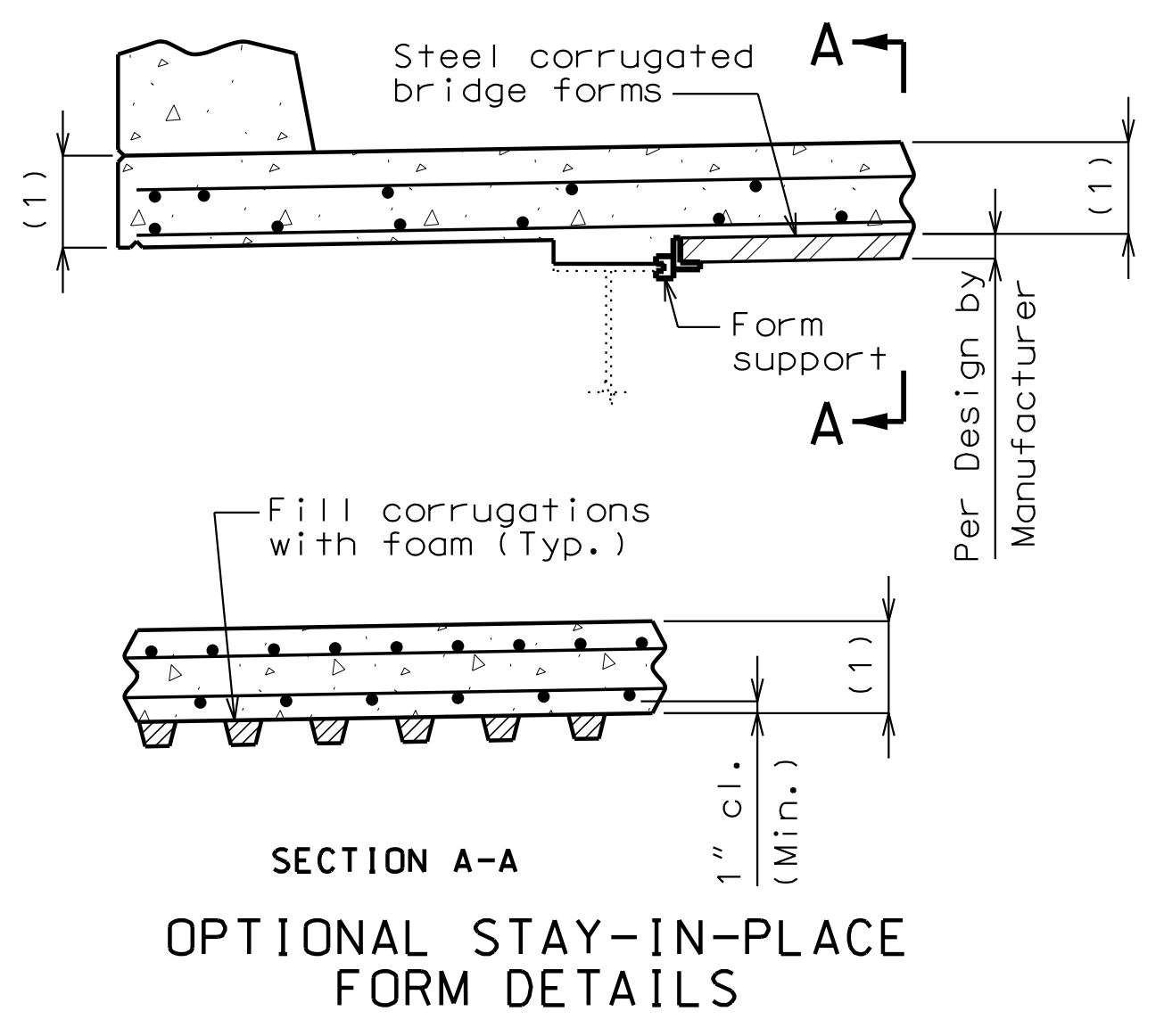
Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

Haunching:

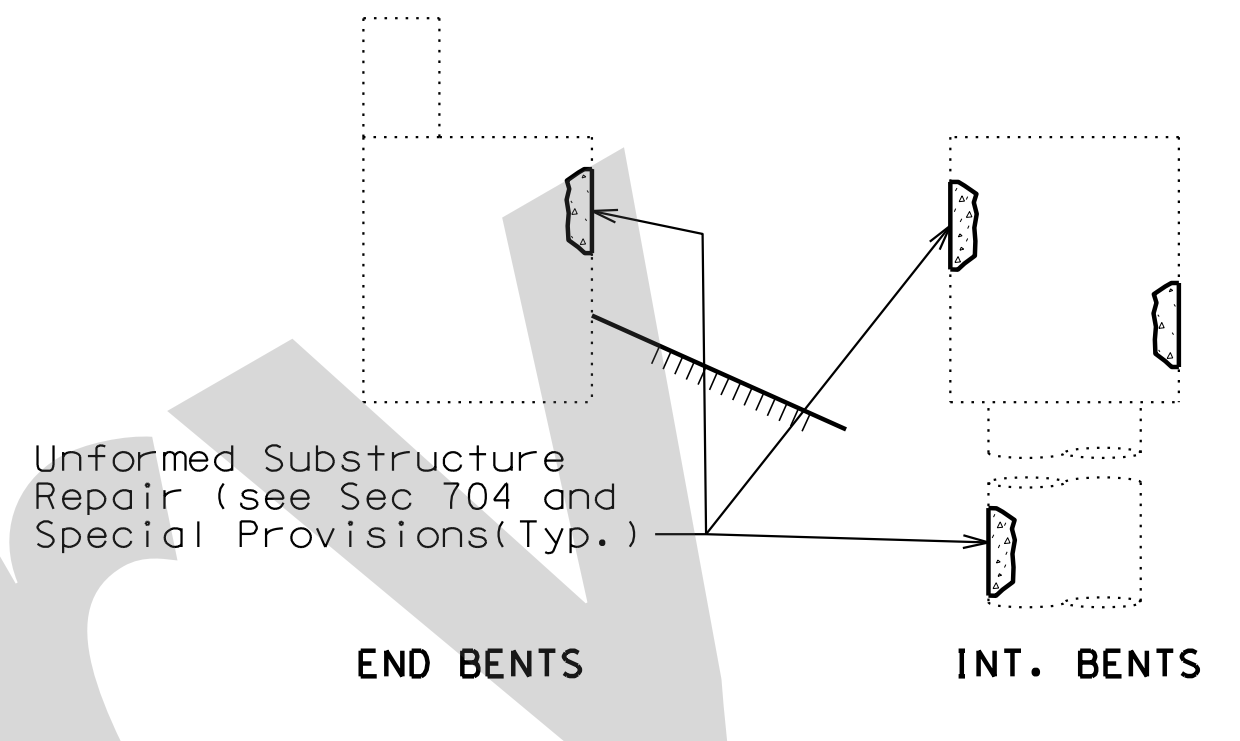
(1) Slab is to be considered a uniform thickness as shown on the plans. Haunching will vary. See front sheet for slab thickness.

Miscellaneous:

High strength bolts, nuts and washers shall be sampled for quality assurance as specified in Sec 106.



TYPICAL SECTION SHOWING FORMED SUBSTRUCTURE REPAIR



TYPICAL SECTION SHOWING UNFORMED SUBSTRUCTURE REPAIR

Estimated Quantities				
Item		Substr.	Superstr.	Total
Removal of Existing Bridge Deck	sq. foot		35,246	35,246
Partial Removal of Existing Structural Steel	lump sum		1	1
Bridge Approach Slab (Major)	sq. yard		279	279
Slab on Steel	sq. yard		3,911	3,911
Type D Barrier	linear foot		1,141	1,141
Ultra-High Performance Concrete	cu. yard		19.9	19.9
Substructure Repair (Formed)	sq. foot	135		135
Substructure Repair (Unformed)	sq. foot	260		260
Conduit System on Structure	lump sum			1
Protective Coating - Concrete Bents & Piers (Epoxy)	lump sum			1
Fabricated Structural Low Alloy Steel (Misc.)	pound		30,720	30,720
Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50	pound		82,420	82,420
Slab Drain	each		52	52
Surface Preparation for Recoating Structural Steel	sq. foot		500	500
Field Application of Organic Zinc Primer	sq. foot		500	500
Intermediate Field Coat (System G)	sq. foot		6,900	6,900
Plain Neoprene Bearing Pad	each		18	18
Type N PTFE Bearing	each		18	18
Strip Seal Expansion Joint System	linear foot		125	125

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	929
Reinforcing Steel (Epoxy Coated)	pound	325,510

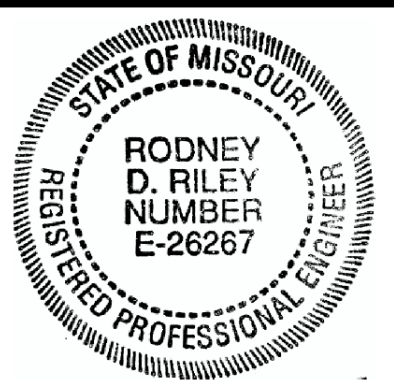
The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 2.

All concrete between the upper and lower construction joints in the end bent is included in the Estimated Quantities for Slab on Steel.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO DISTRICT BR SHEET NO. 2

COUNTY ST. LOUIS

JOB NO. J6I3187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

Jacobs

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

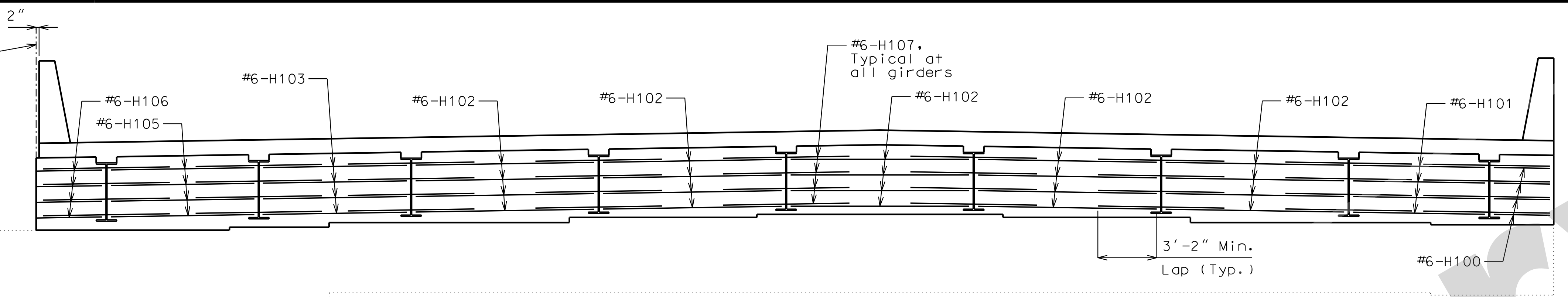
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

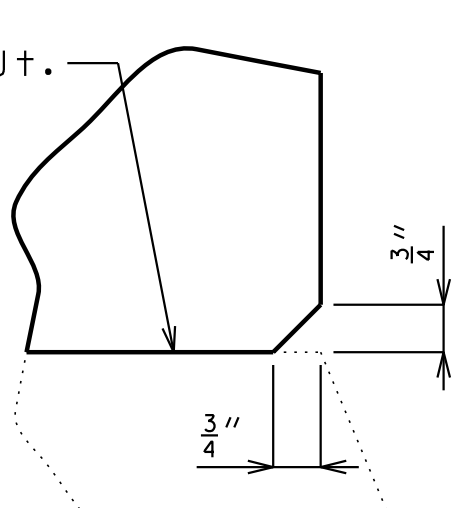
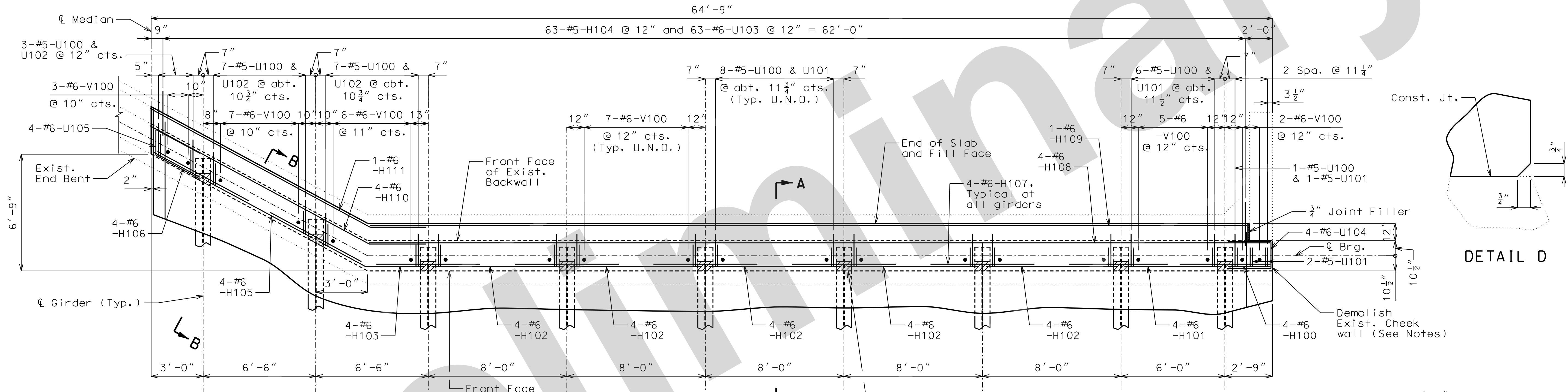
JACOBS GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

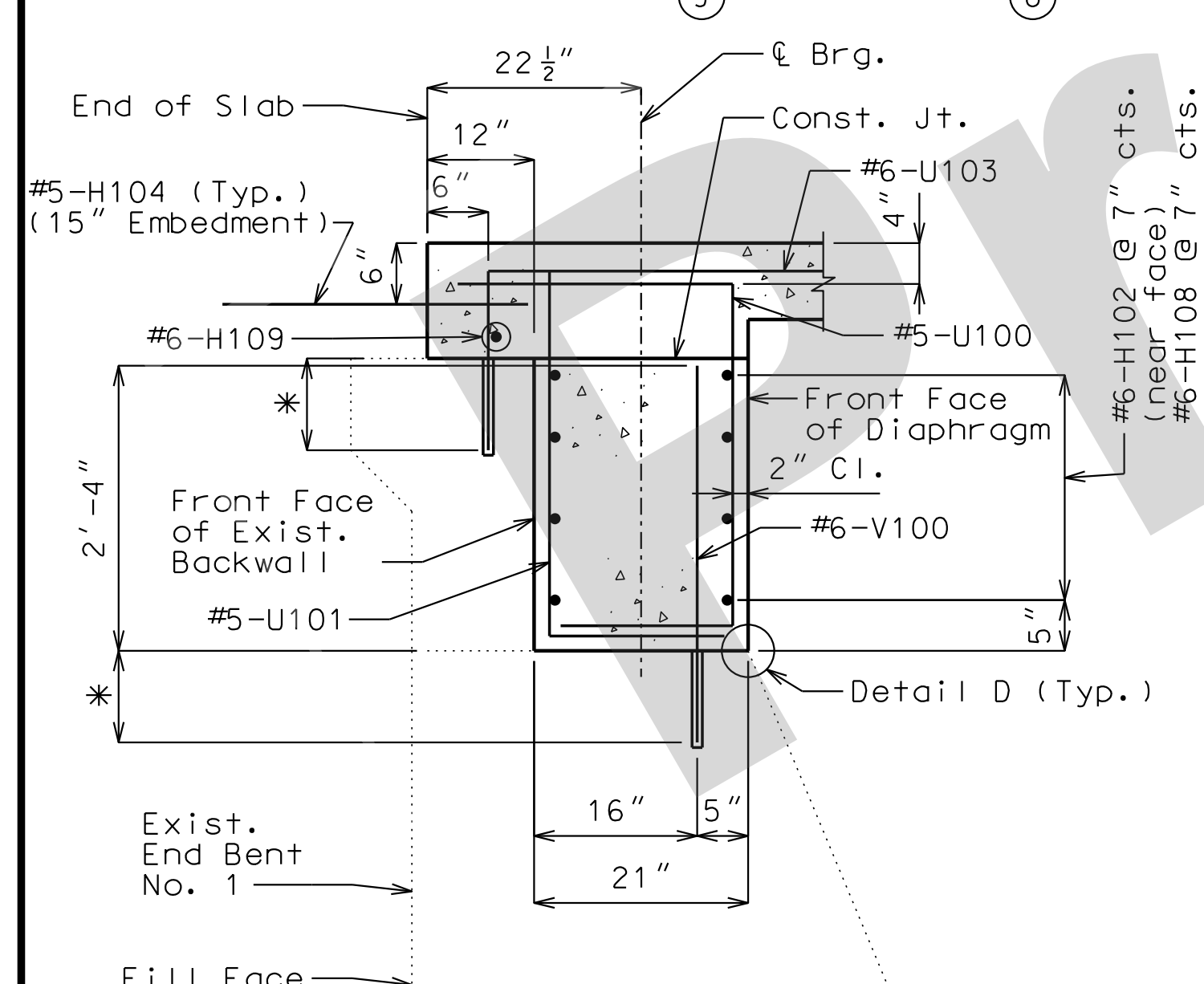
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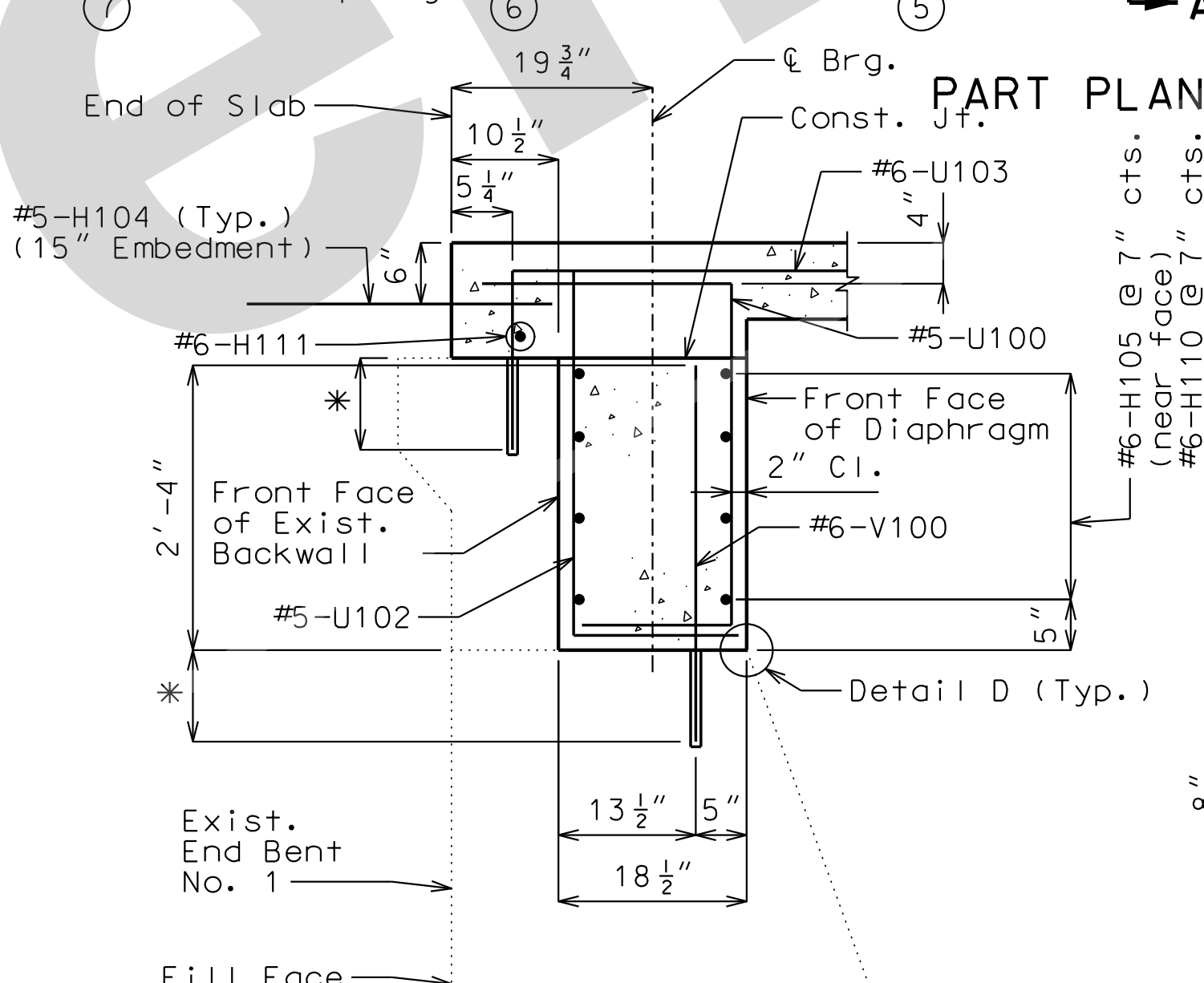
SECTION NEAR END BENT
U-bars not shown for clarity.



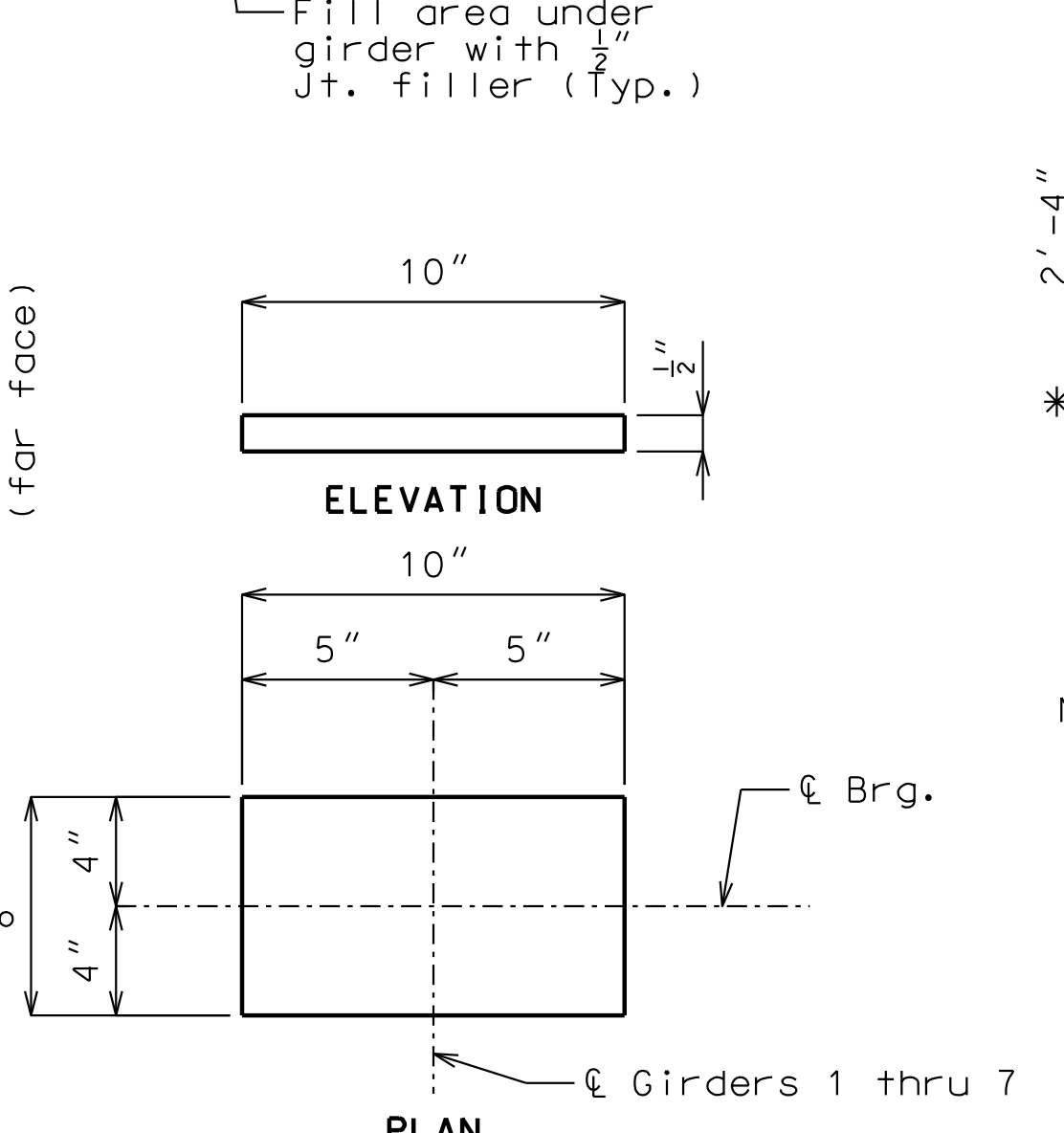
DETAIL D



SECTION A-A



SECTION B-B



PLAIN NEOPRENE BEARING PAD DETAILS

DETAILS OF RESIN ANCHOR SYSTEM

Note: An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the threaded rod.

- Notes:
- For details and reinforcement of Barrier Curb (Type D), see Sheets No. 19 thru 22.
 - All concrete below construction joint shall be Class B-2.
 - For details of Approach Slab, see Sheet No. 23.
 - The U bars shall be placed parallel to the centerline of roadway.
 - Saw cut and remove existing 9" cheek wall to horizontal point flush with top of end bent cap and vertical point flush with front face of existing backwall. Lap existing reinforcing into new integral diaphragm.
 - For Resin Anchor Notes, see Sheet No. 4.
 - U.N.O. = Unless Noted Otherwise

Detailed July 2021
Checked July 2021

Note: Slab reinforcing not shown for clarity.

Note: This drawing is not to scale. Follow dimensions.

DIAPHRAGM AT END BENT NO. 1

Sheet No. 3 of 28



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

JACOBS

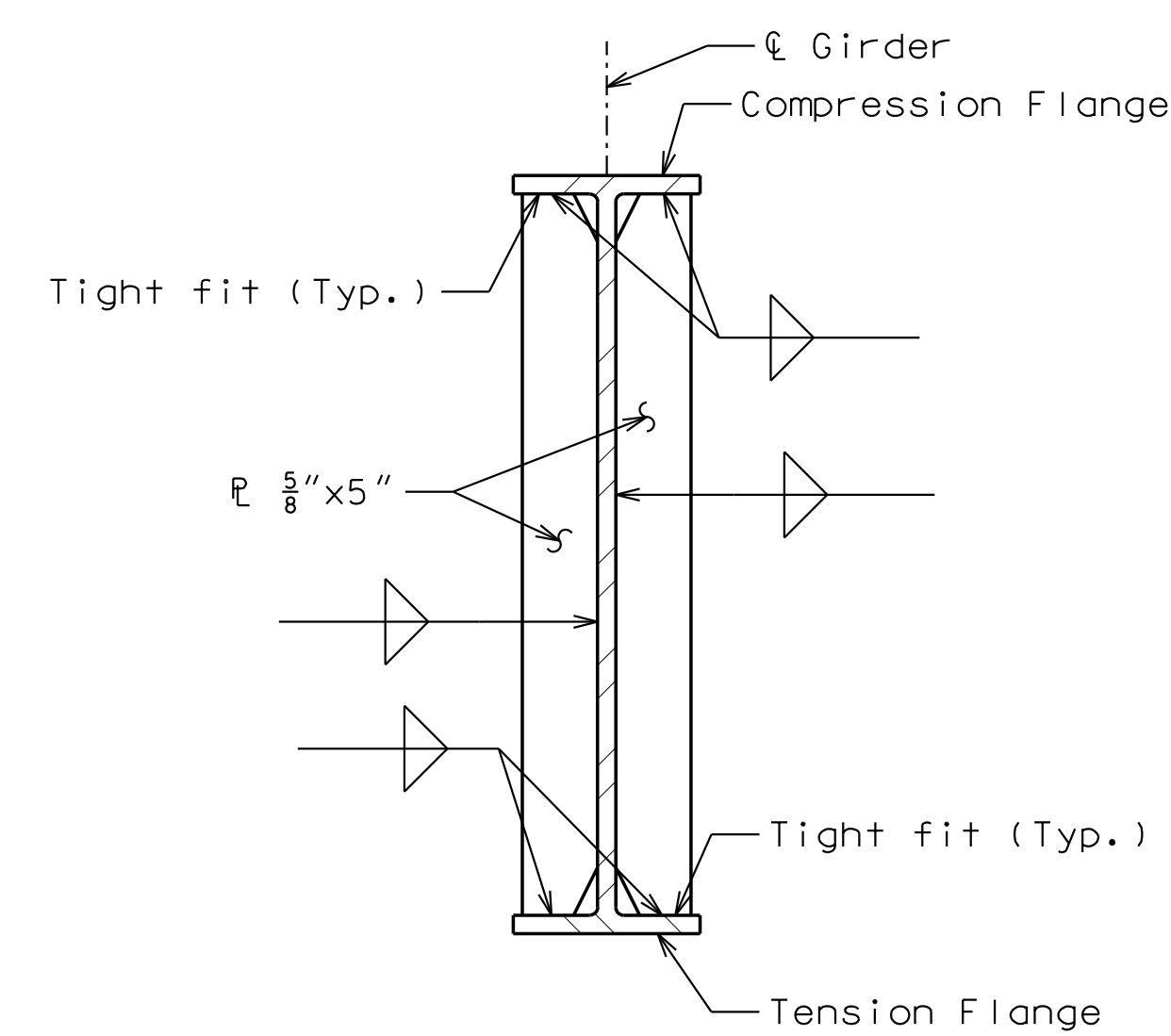
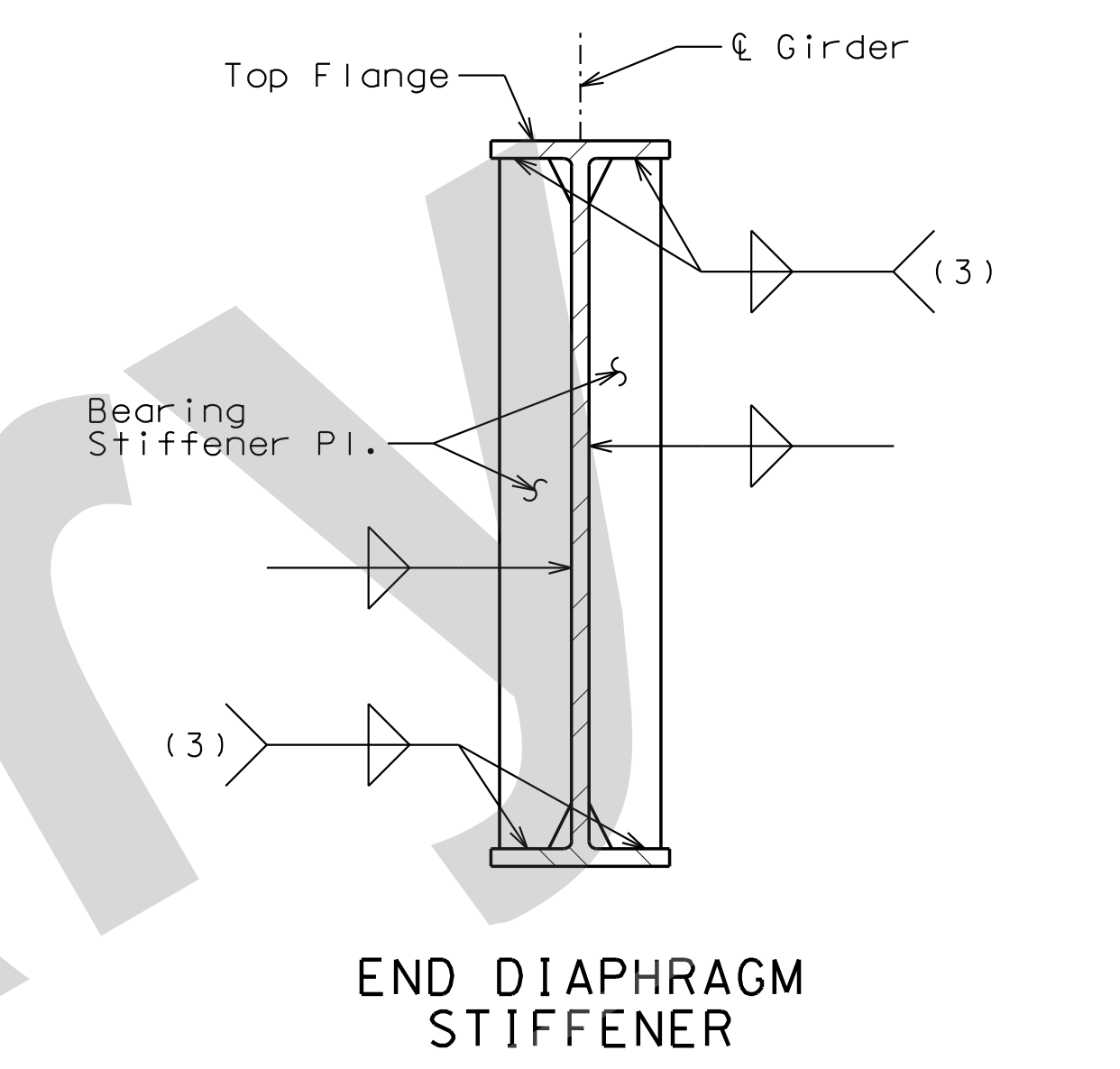
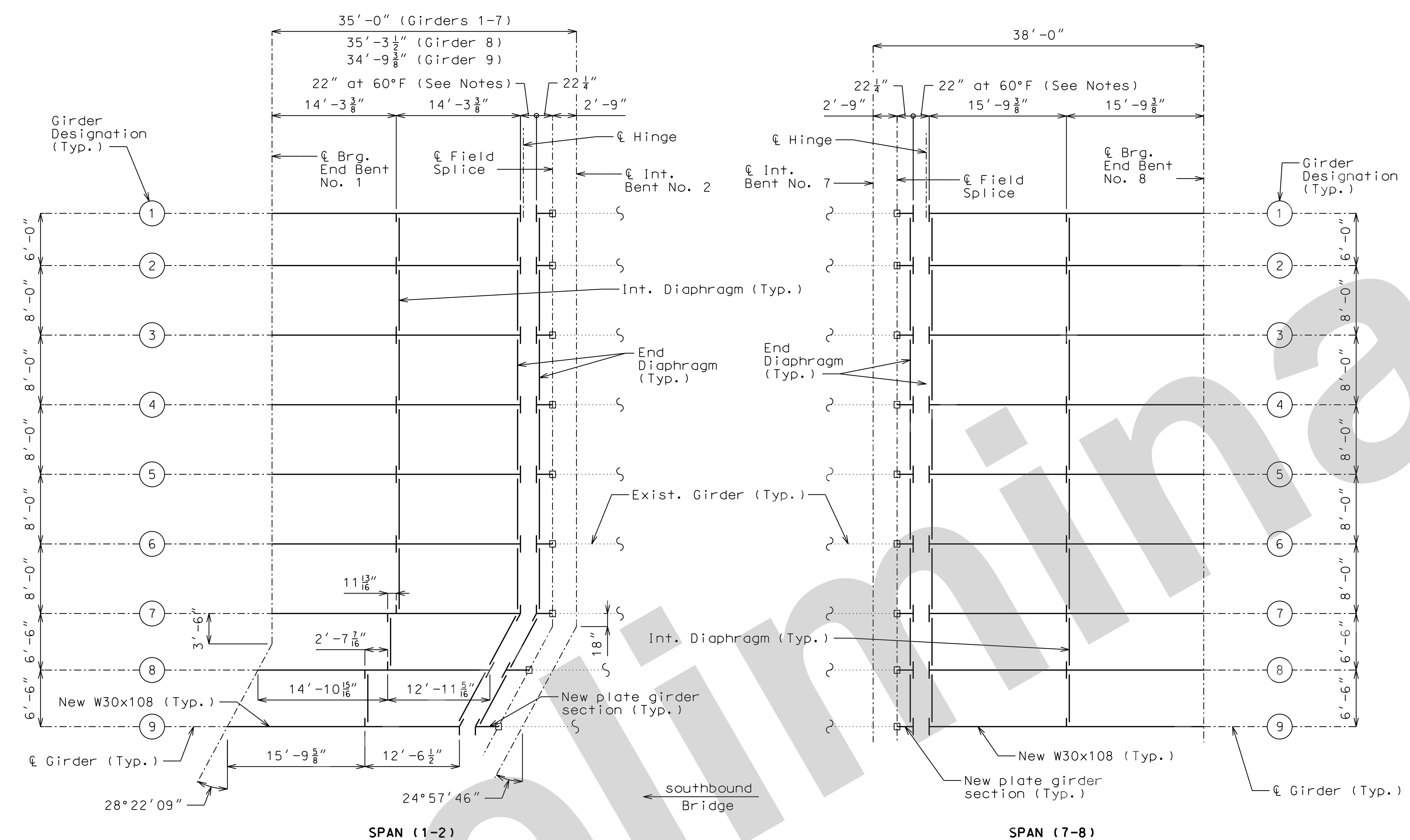
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

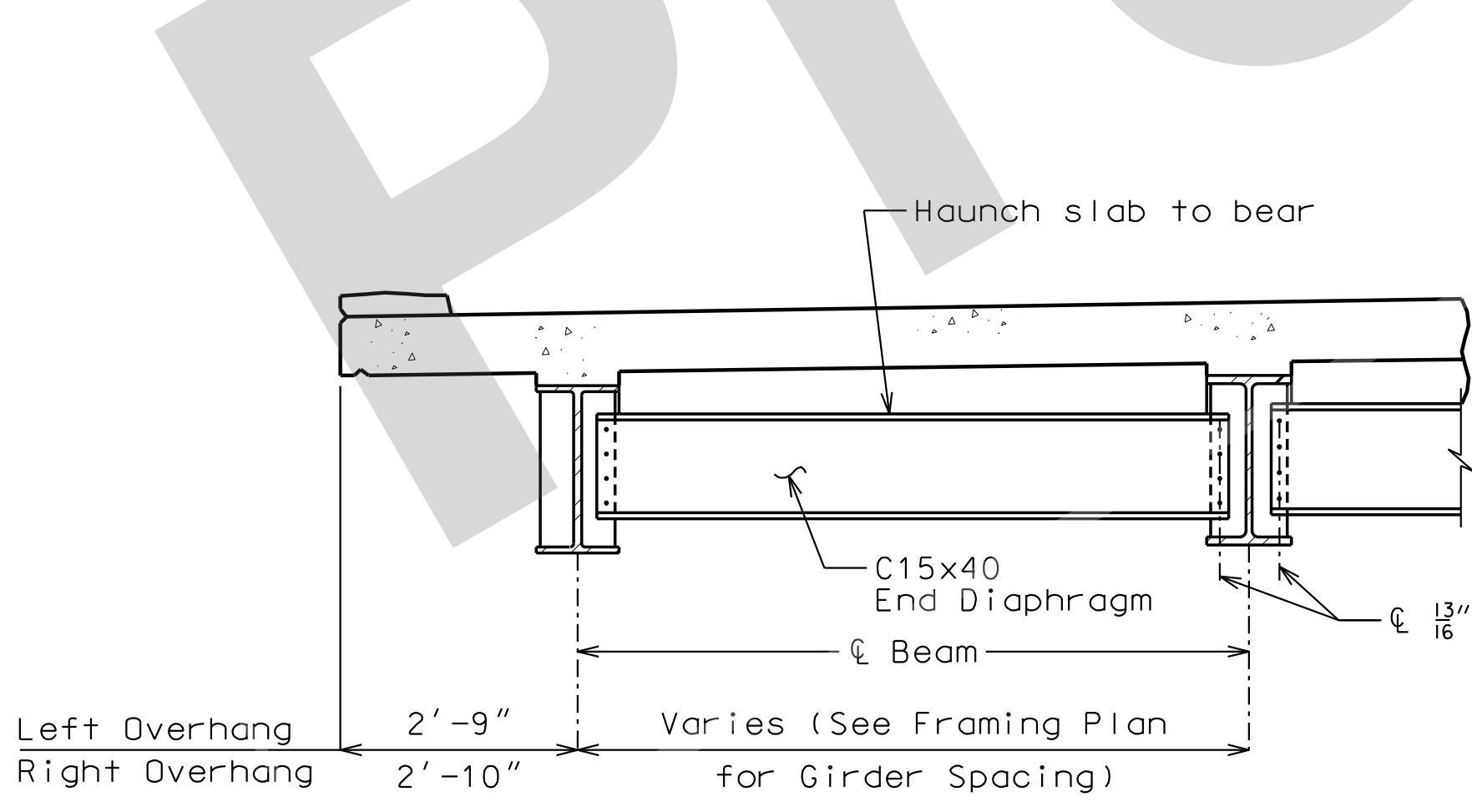
CERTIFICATE OF AUTHORITY #00704

REV.

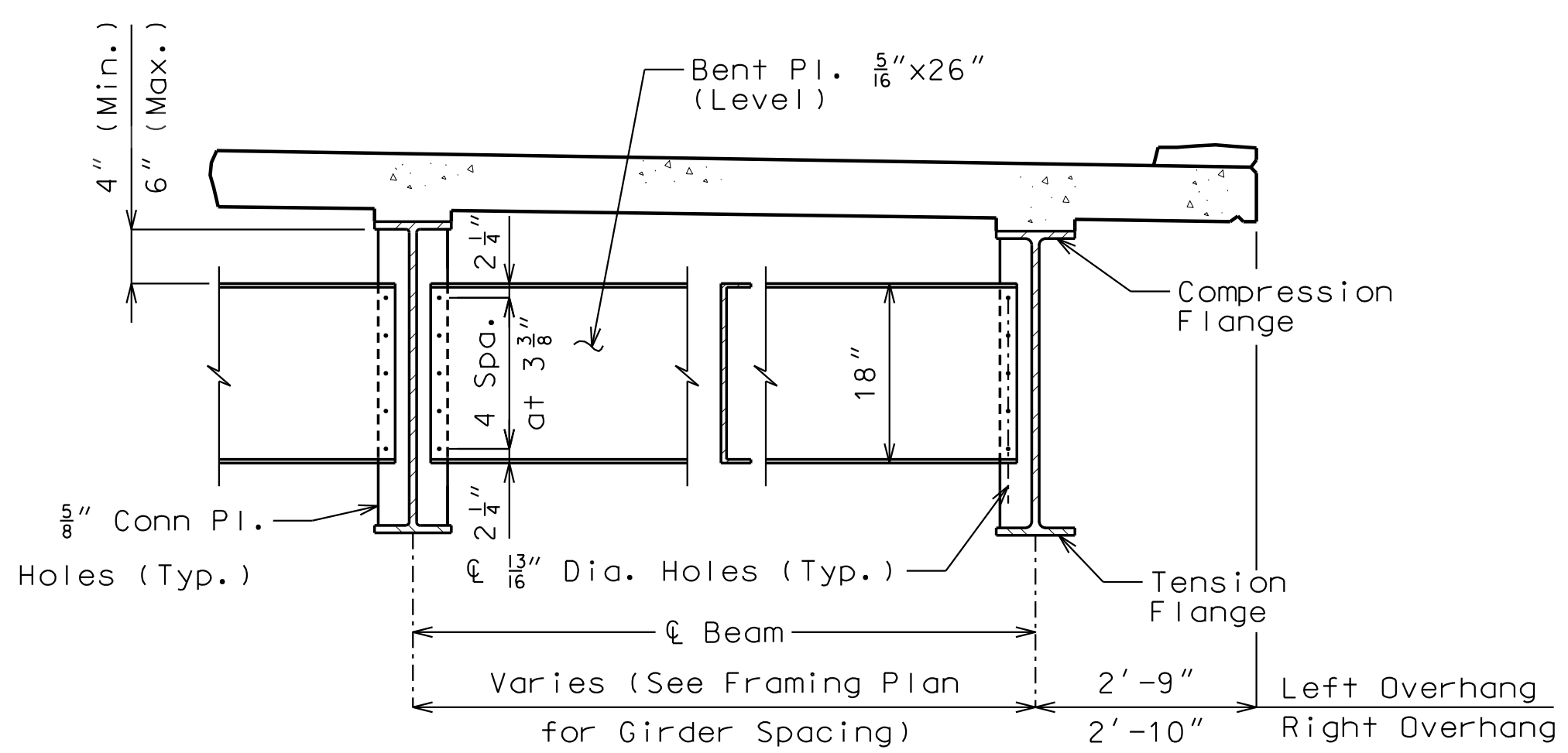
IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



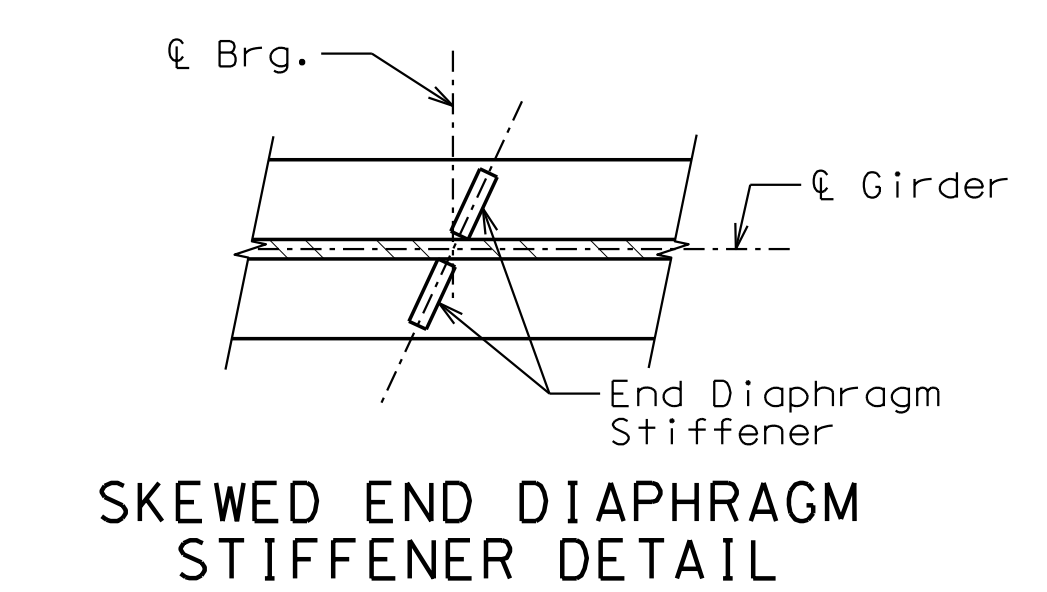
(3) Grind or mill to bear when stiffener is adjacent to PTFE bearing. Otherwise, stiffener should be fabricated for tight fit. See hinge details for more information.



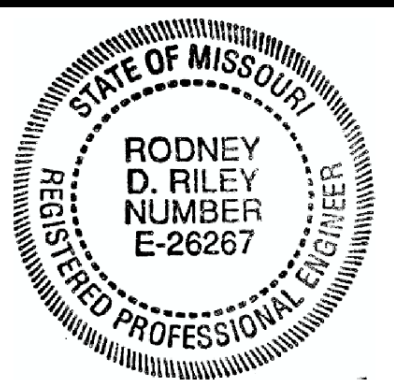
TYPICAL PART SECTION SHOWING END DIAPHRAGMS
(Note: See Hinge Details for additional information at End Diaphragms)



TYPICAL PART SECTION SHOWING INTERMEDIATE DIAPHRAGMS



Notes:
For Girder Elevation details, see Sheet No. 10.
For Hinge details including End Diaphragms at the Hinge, see Sheets No. 6 and 7.
For adjustment of Gap between end diaphragms at the centerline of Hinge, see Sheet No. 6.



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DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 7

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

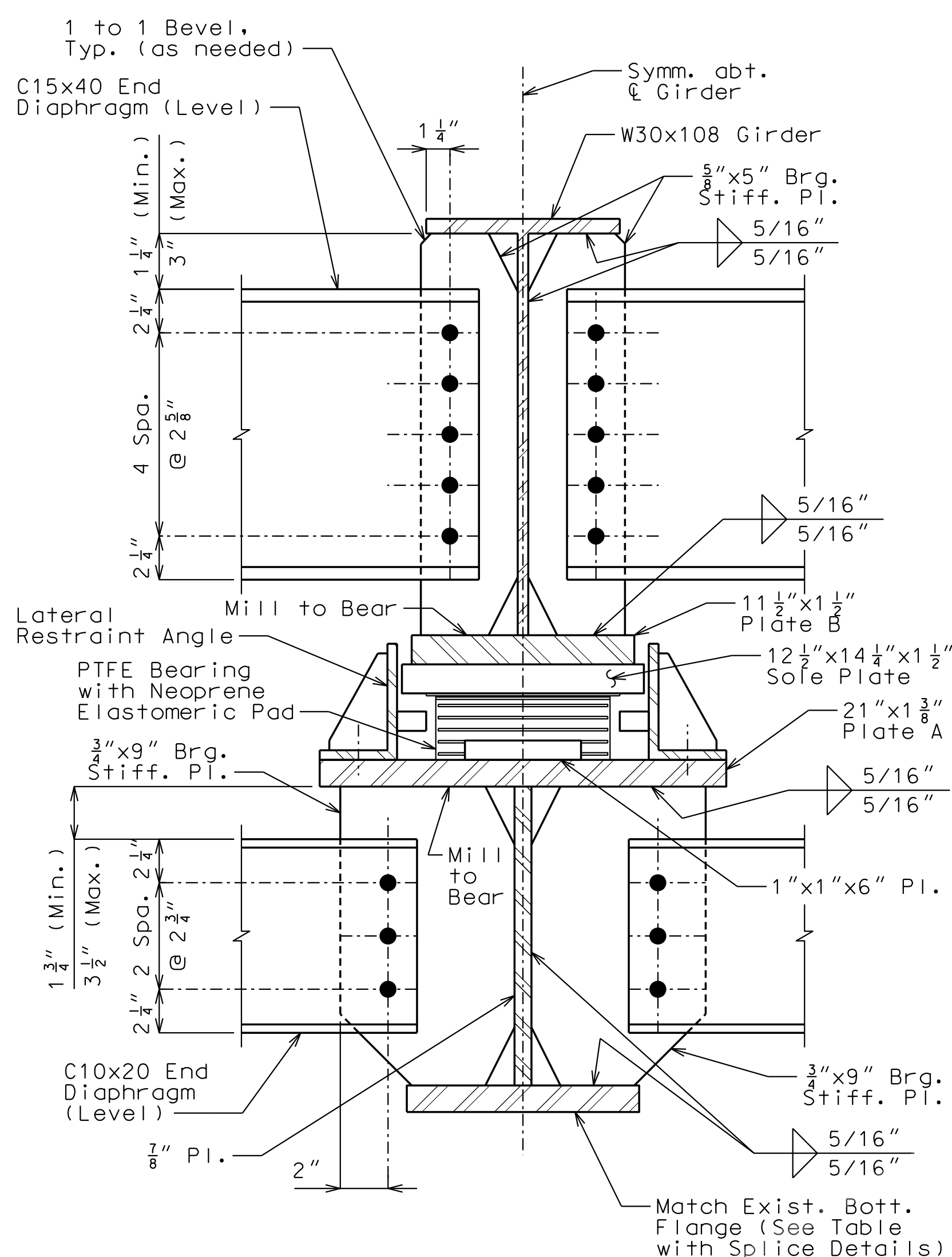
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1-888-ASK-MODOT (1-888-275-6636)

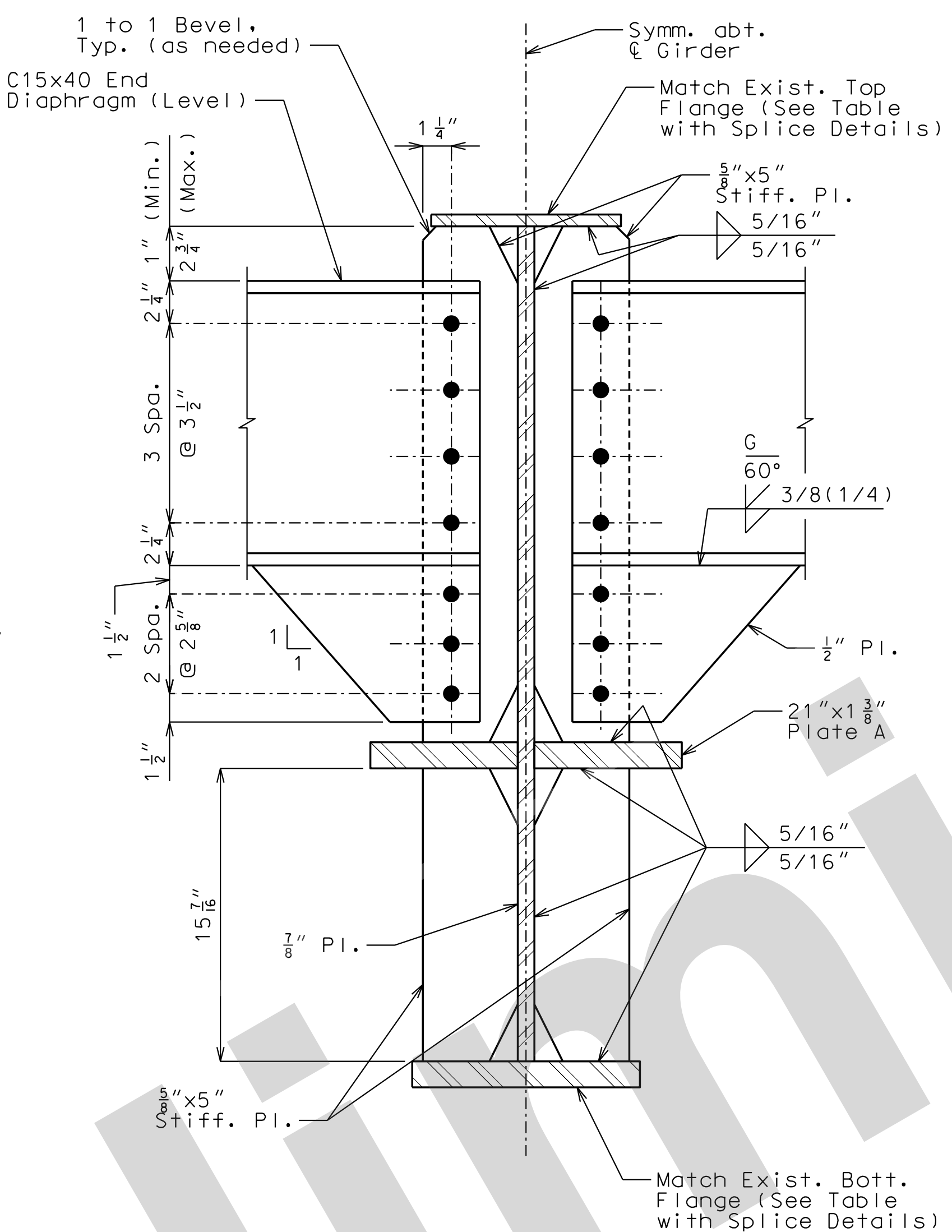
JACOBS GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

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SECTION A-A



SECTION B-B

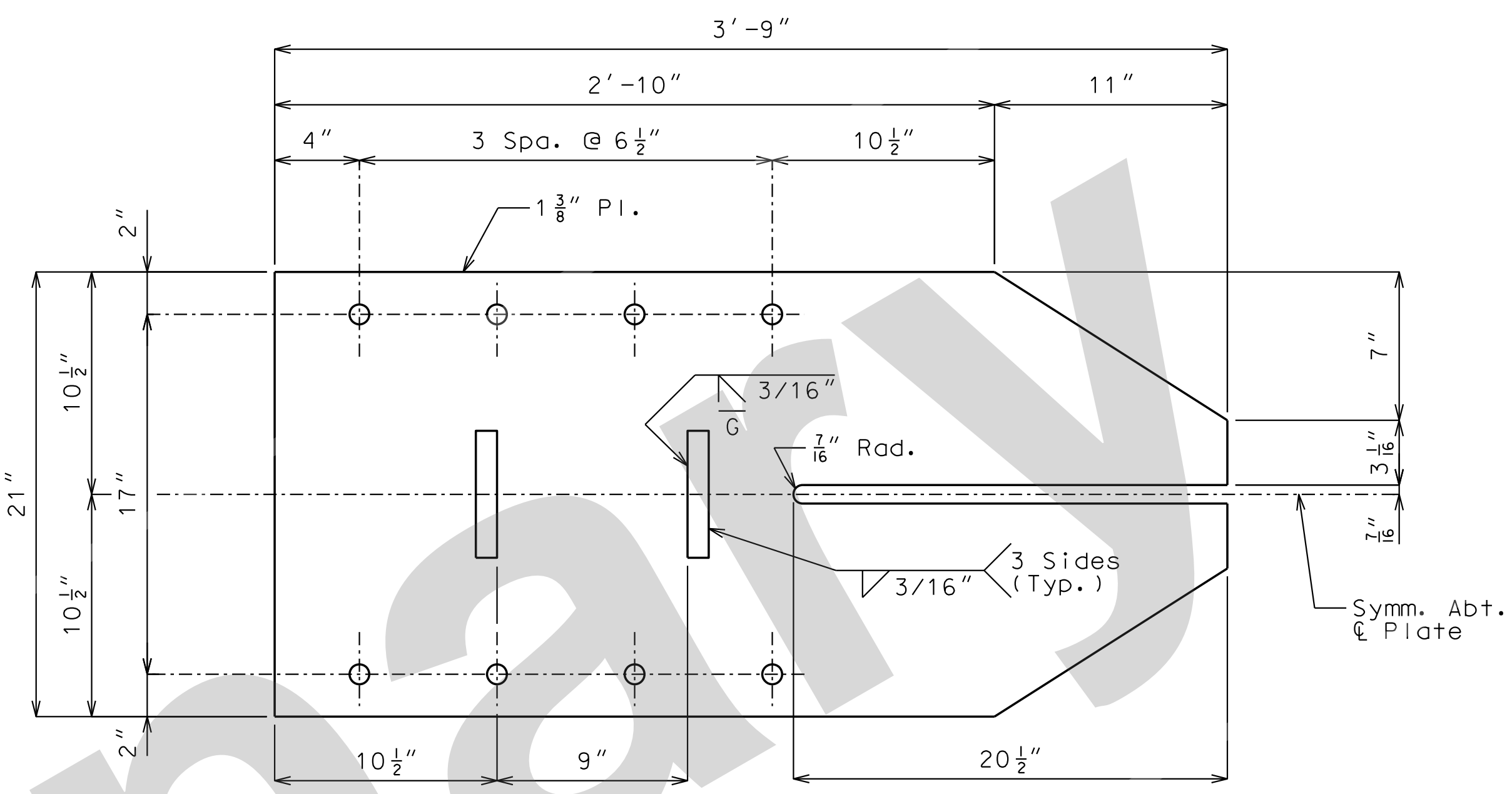


PLATE A DETAIL

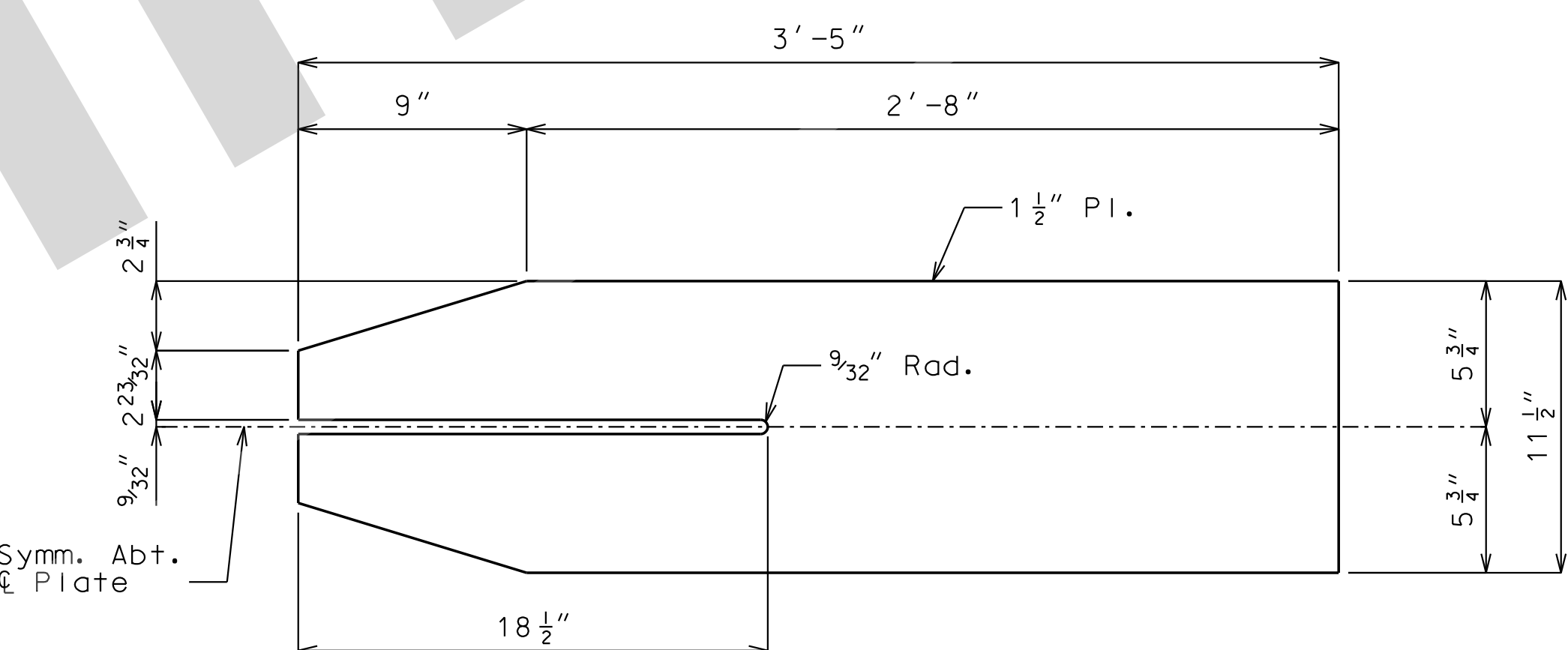
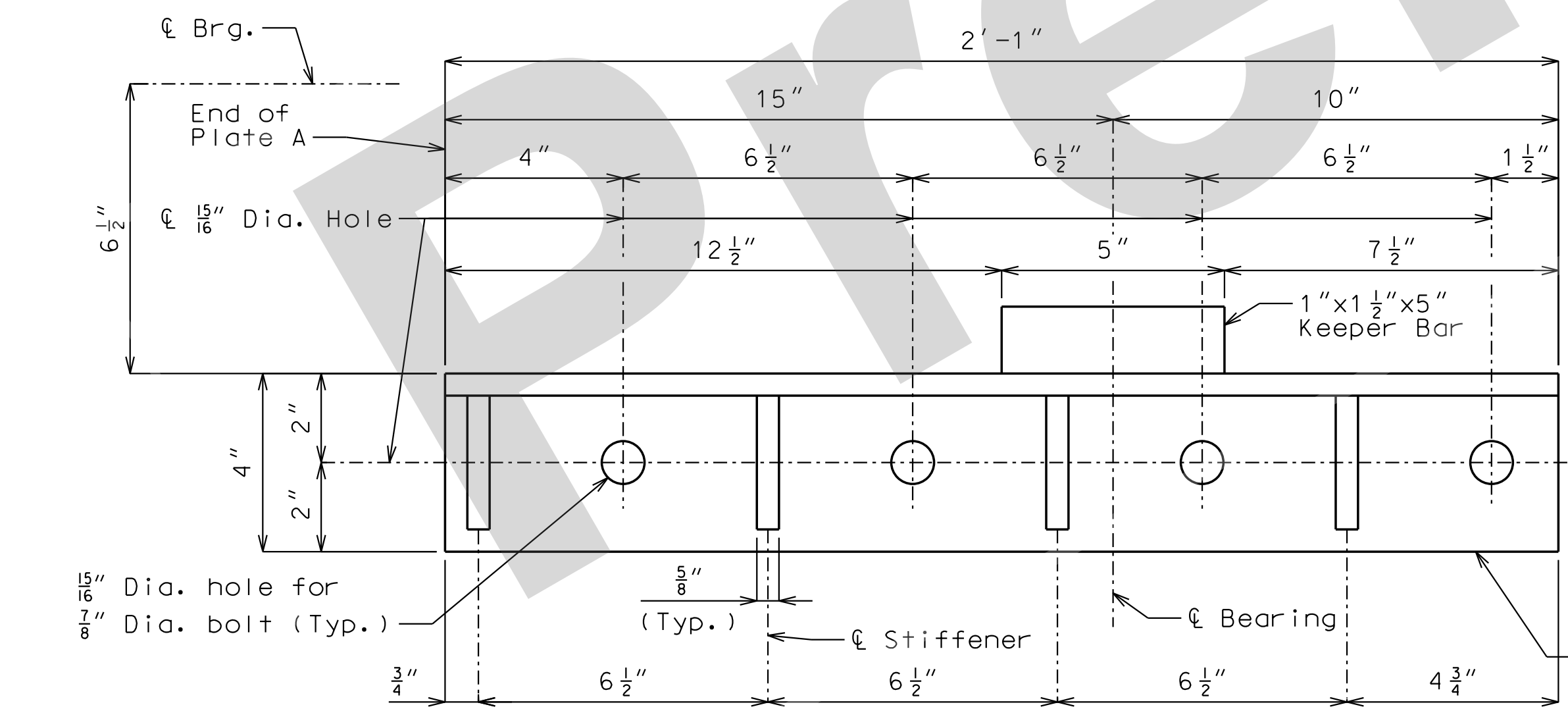
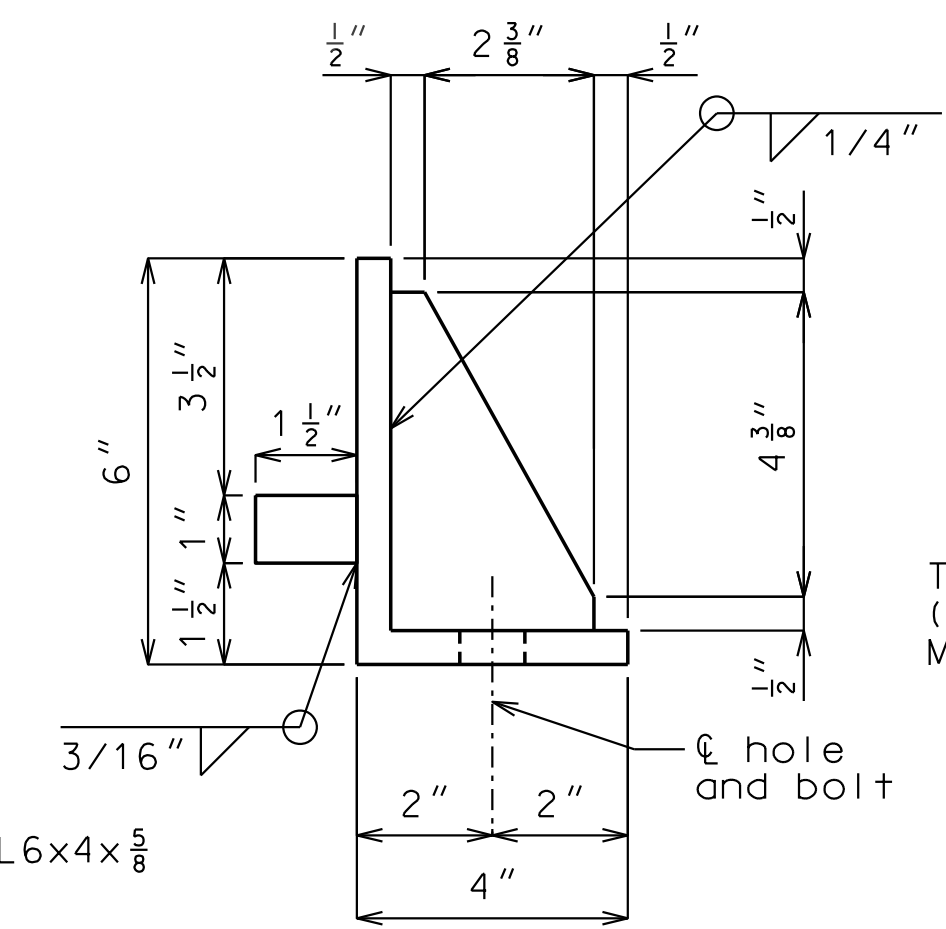


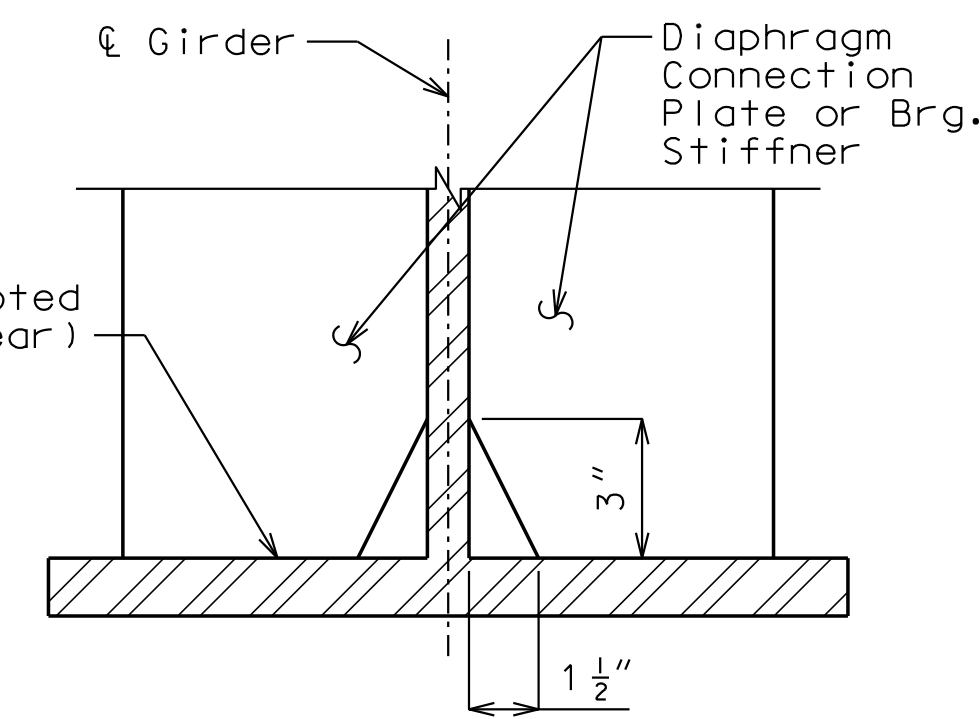
PLATE B DETAIL



PLAN



SIDE VIEW



CLIP DETAIL

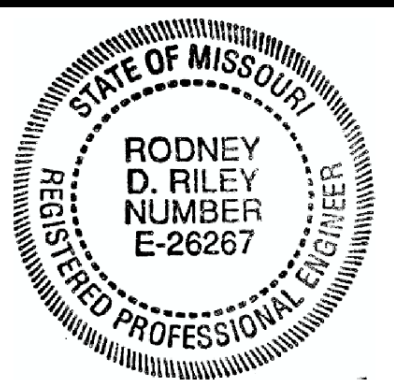
Note: Lateral Restraint on other side of Bearing not shown, but similar and opposite hand.

Notes:
 For Elevation of Hinge detail, see Sheet No. 6.
 See Sheet No. 9 for PTFE and Laminated Elastomeric Bearing details.
 For Strip Seal Expansion Joint details, see Sheets No. 12 and 13.
 For Splice Plate details, see Sheet No. 8.
 All bolts used in end diaphragm connections shall be 3/4" Dia. ASTM F3125 Grade A325 Type 1 in 13/16" Dia. holes.
 All bolts used in lateral restraint shall be 7/8" Dia. ASTM F3125 Grade A325 Type 1 in 15/16" Dia. holes.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 7 of 28

Detailed July 2021
 Checked July 2021



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 9

COUNTY ST. LOUIS

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DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

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JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

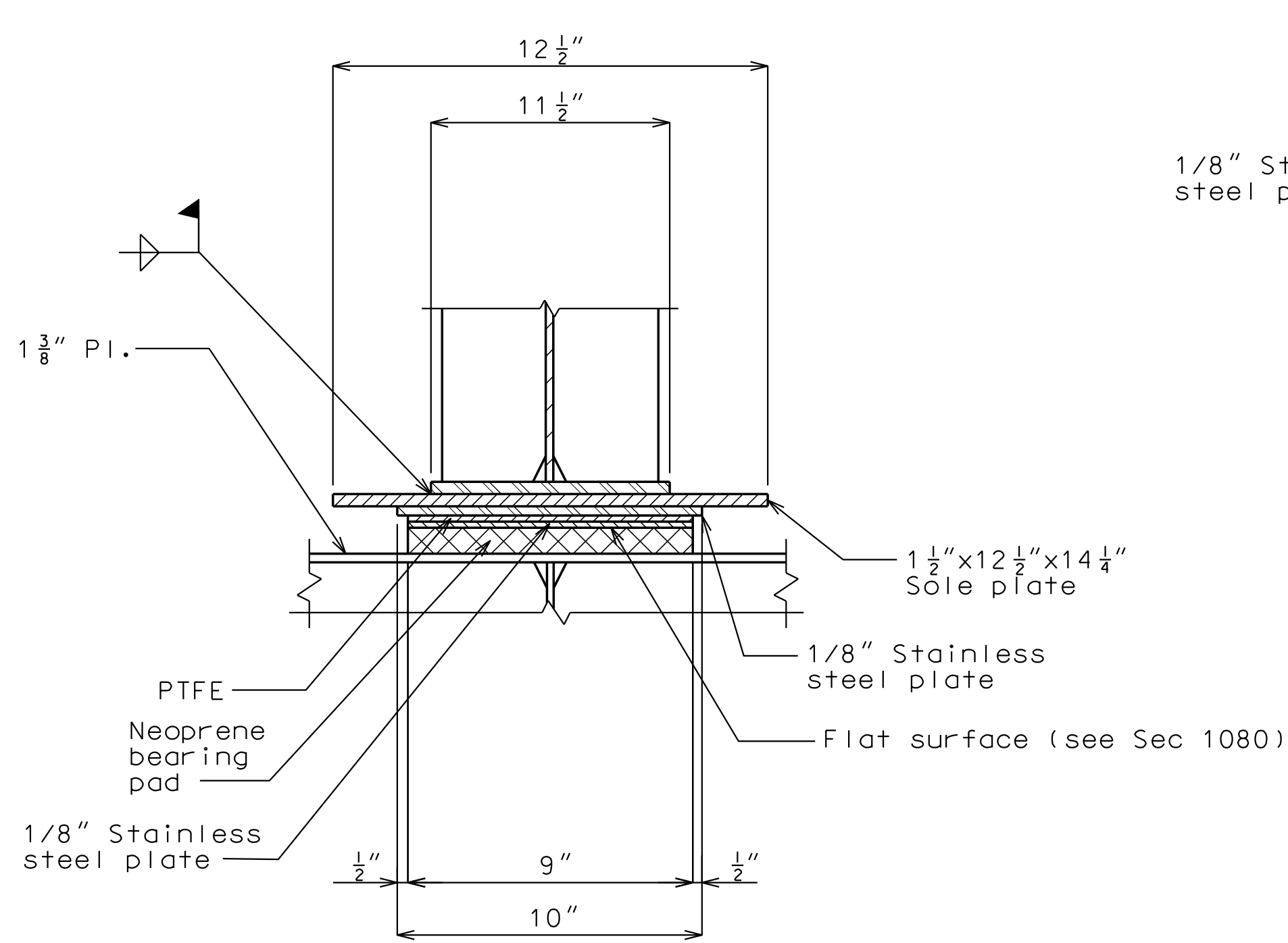
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JEFFERSON CITY, MO 65102

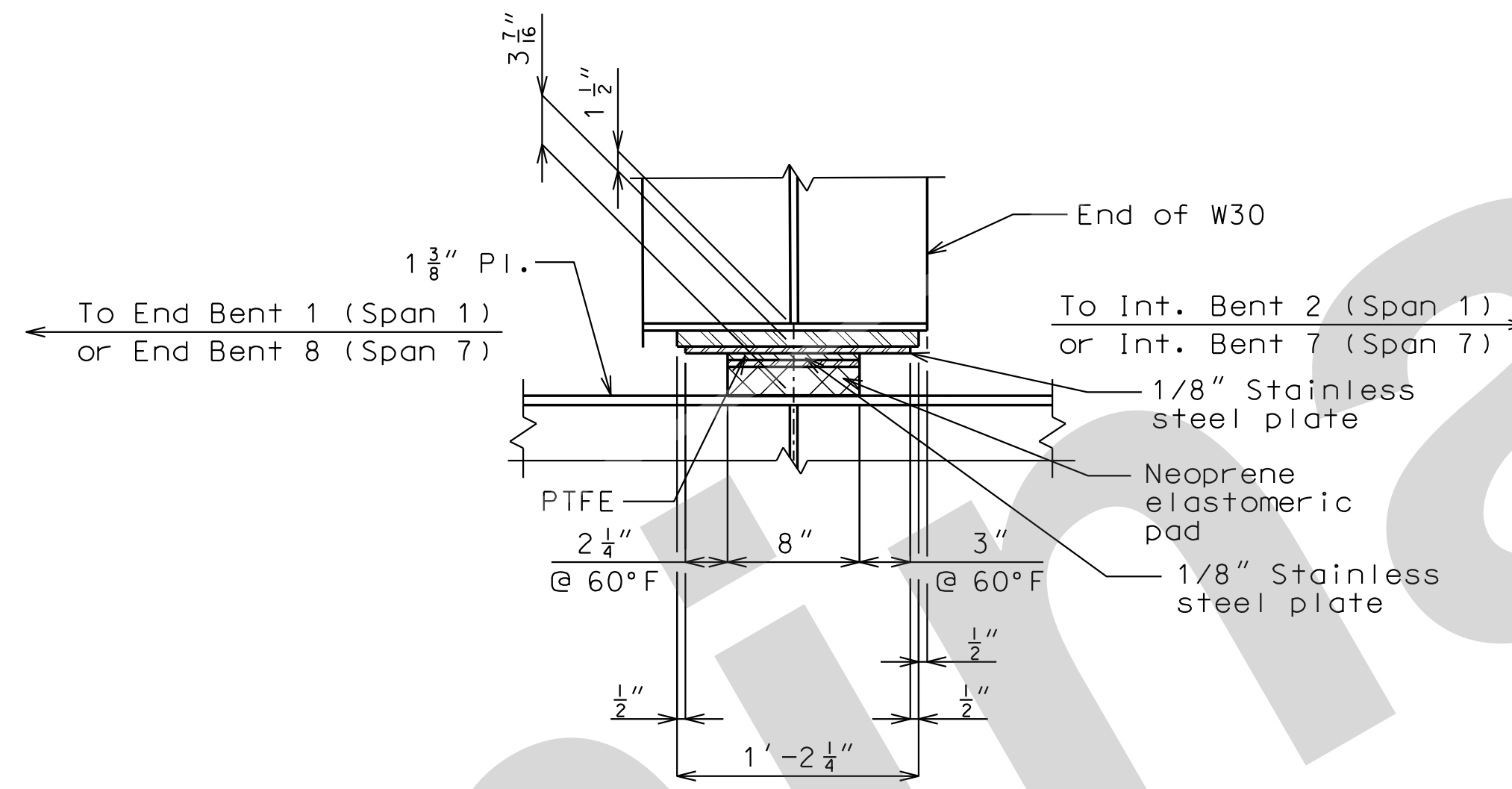
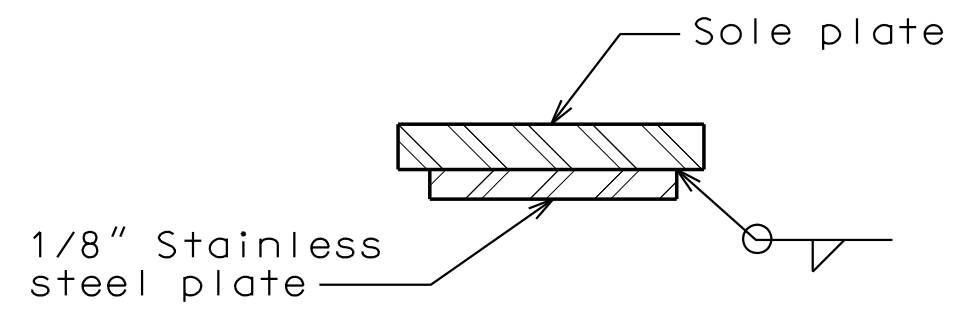
1-888-ASK-MODOT (1-888-275-6636)

JEFFERSON CITY, MO 65102



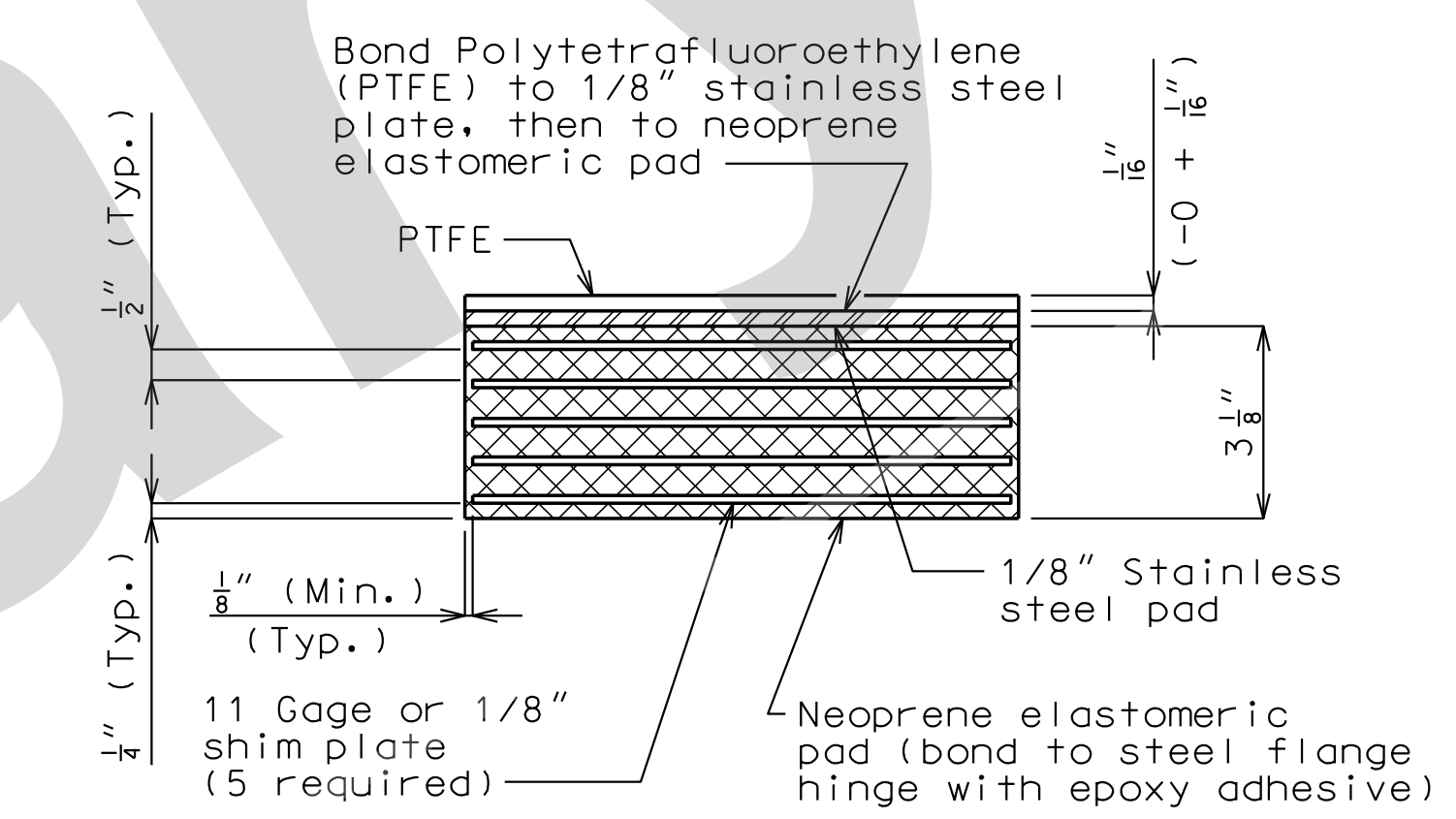
END VIEW

Note: Lateral Restraint Angle not Shown.



SIDE VIEW

Note: 1"x1"x6" Plate (Keeper Bar) not shown.



NEOPRENE ELASTOMERIC PAD

GENERAL NOTES:

Design coefficient of friction equals 0.06.

Neoprene Elastomeric Pads shall be 70 Durometer.

Structural steel for sole plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum. The stainless steel plate shall be protected from any coating.

Type N PTFE Bearings shall be in accordance with Sec 716.

PTFE surface shall be fabricated as a single piece. Splicing will not be permitted.

The neoprene pads shall be bonded to the steel flange of the hinge with an epoxy adhesive, in accordance with the bearing manufacturer's recommendations for bonding neoprene to steel to prevent sliding.

The bottom face of the 1/8" stainless steel plate that is welded to the sole plate shall be lubricated with a lubricant that is approved by the bearing manufacturer.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 10

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

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JEFFERSON CITY, MO 65102

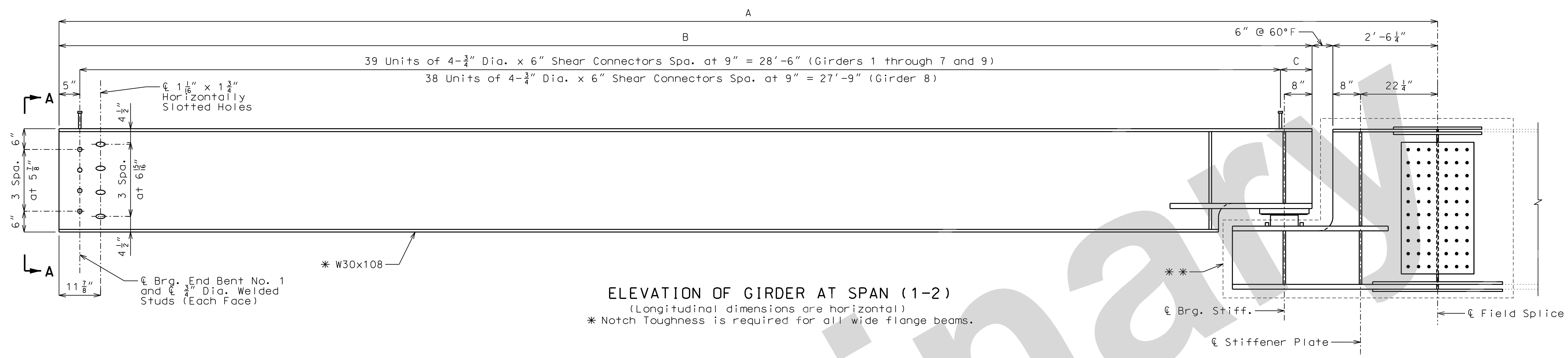
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JEFFERSON CITY, MO 65102

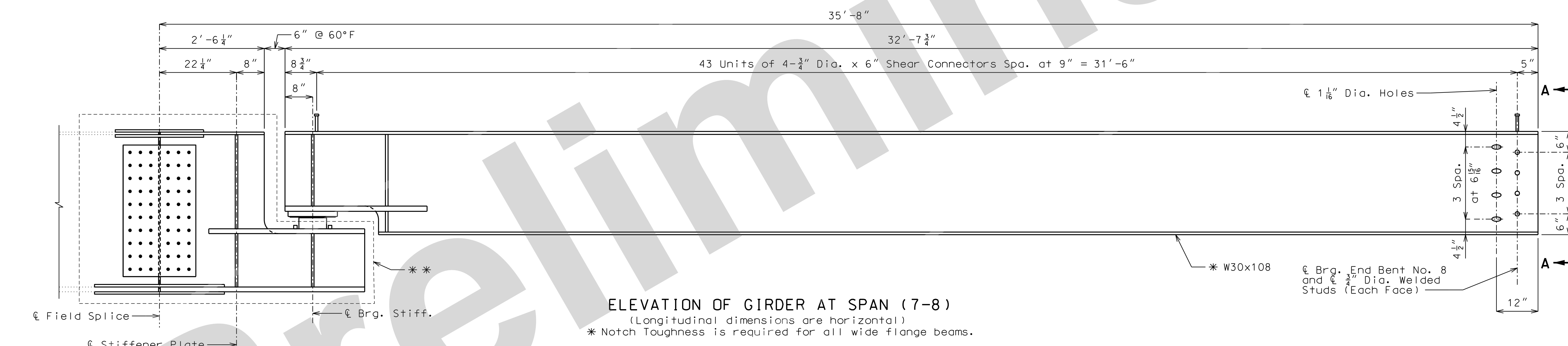
1-888-ASK-MODOT (1-888-275-6636)

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

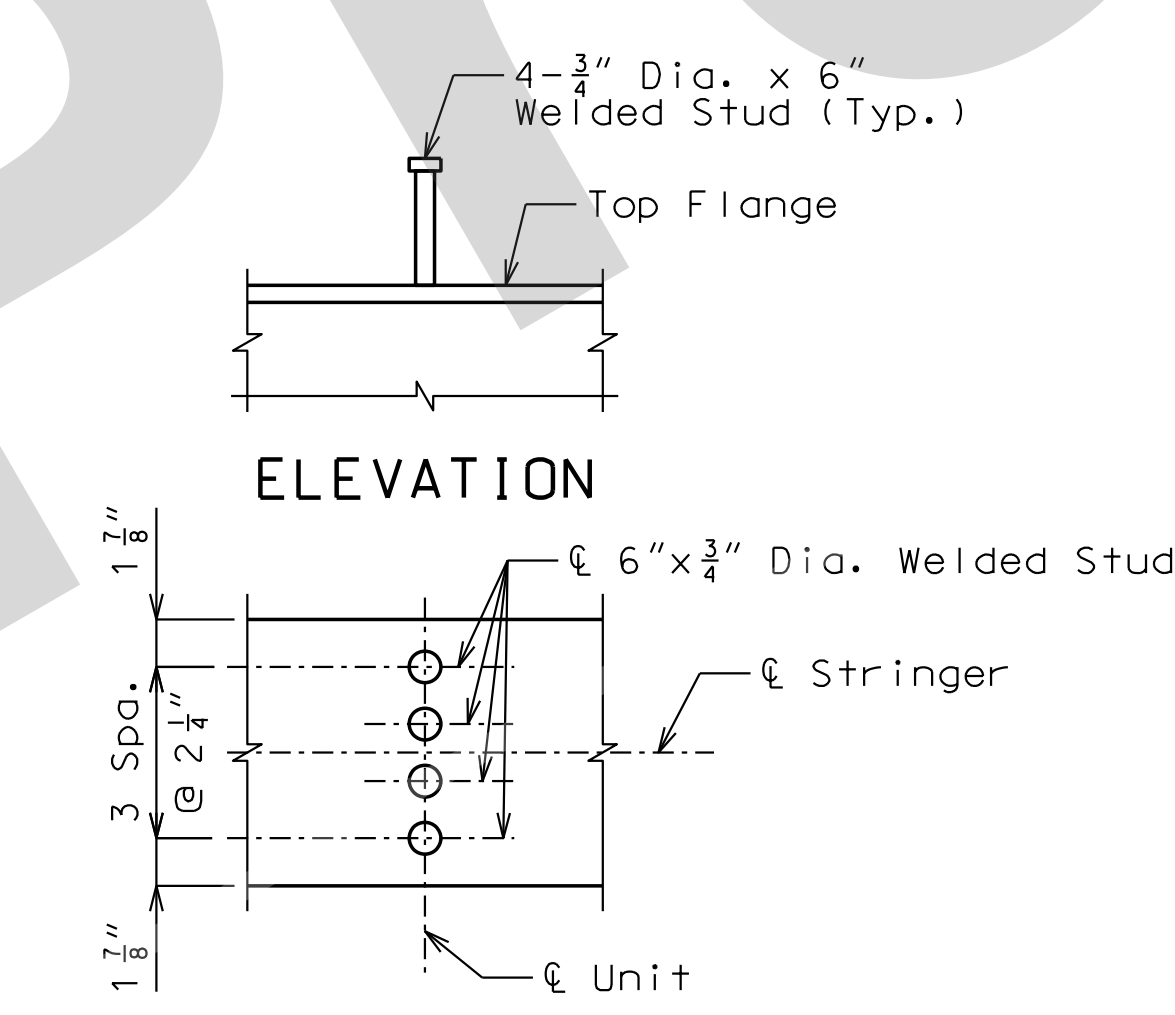


ELEVATION OF GIRDER AT SPAN (1-2)
(Longitudinal dimensions are horizontal)
* Notch Toughness is required for all wide flange beams.



ELEVATION OF GIRDER AT SPAN (7-8)
(Longitudinal dimensions are horizontal)
* Notch Toughness is required for all wide flange beams.

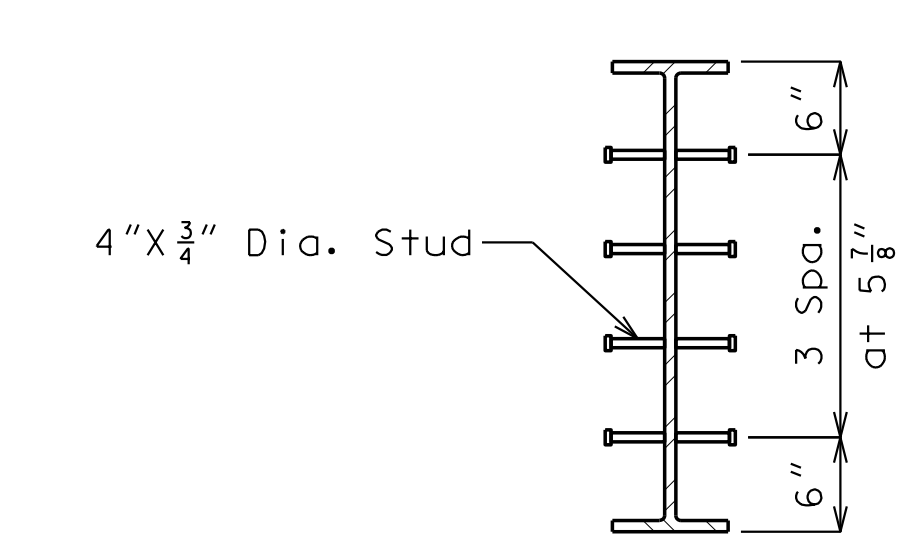
* * The cost of flange plates, web plates, splice plates and stiffeners required to extend the existing girders, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Low Alloy Steel (Misc.). The cost of the remainder of structural steel, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Low Alloy Steel (I-Beam) A709, Grade 50.



PLAN OF STUD CONN.

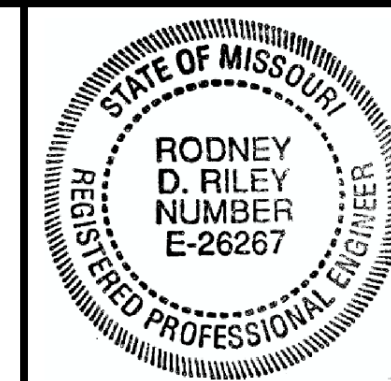
Note: Weight of 2,594 lbs. of shear connectors is included in the weight of Fabricated Structural Low Alloy Steel (I-Beam).

Girder Number	Dim. A	Dim. B	Dim. C
1	32'-8"	29'-7 3/4"	8 3/4"
2	32'-8"	29'-7 3/4"	8 3/4"
3	32'-8"	29'-7 3/4"	8 3/4"
4	32'-8"	29'-7 3/4"	8 3/4"
5	32'-8"	29'-7 3/4"	8 3/4"
6	32'-8"	29'-7 3/4"	8 3/4"
7	32'-8"	29'-7 3/4"	8 3/4"
8	31'-11 1/2"	28'-11 1/4"	9 1/4"
9	32'-5 3/8"	29'-5 1/8"	6 1/8"



SECTION A-A

Notes:
For Framing Plan, see Sheet No. 5.
For Hinge details, see Sheets No. 6 thru 8.
For Strip Seal Joint details, see Sheets No. 12 & 13.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 12

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

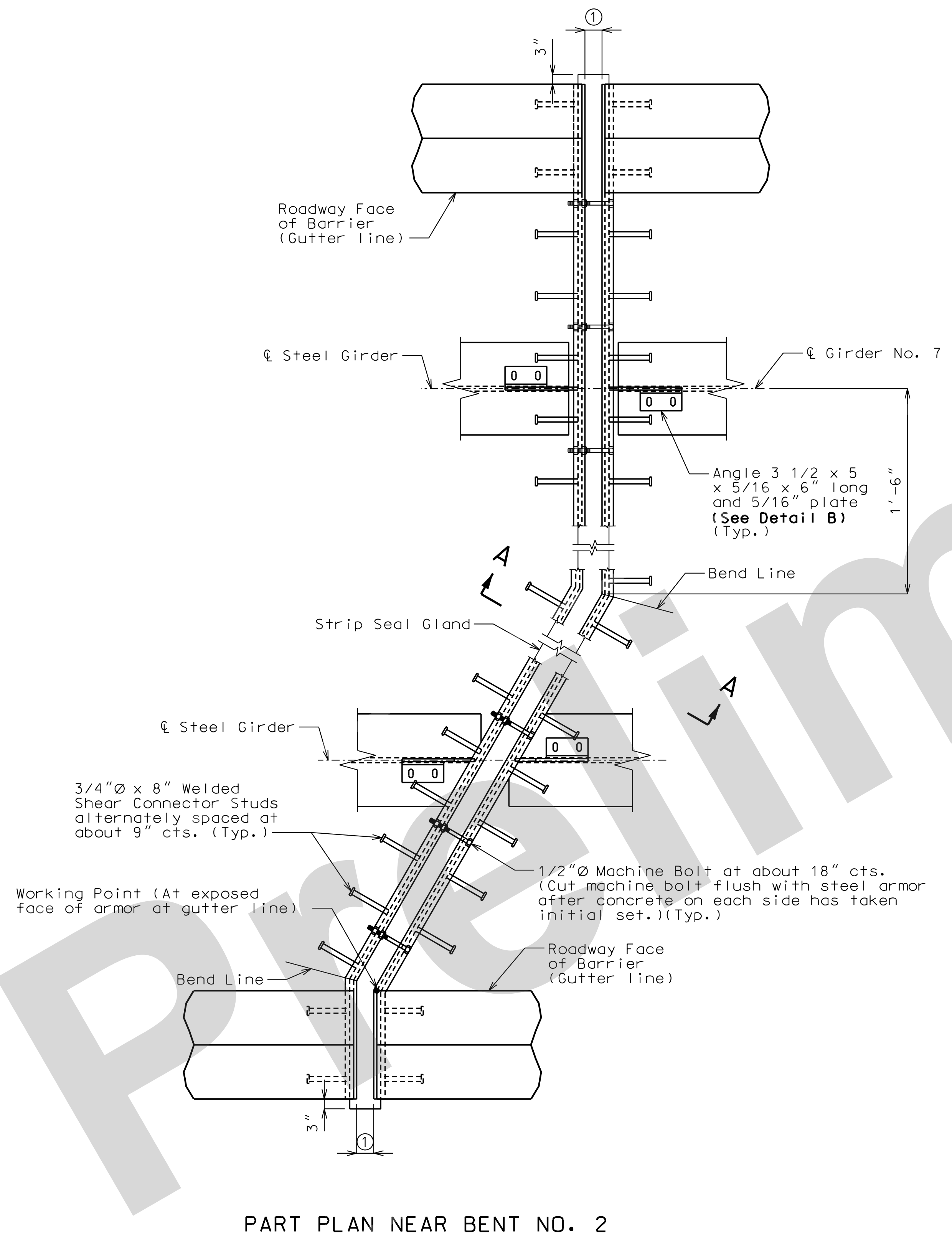
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

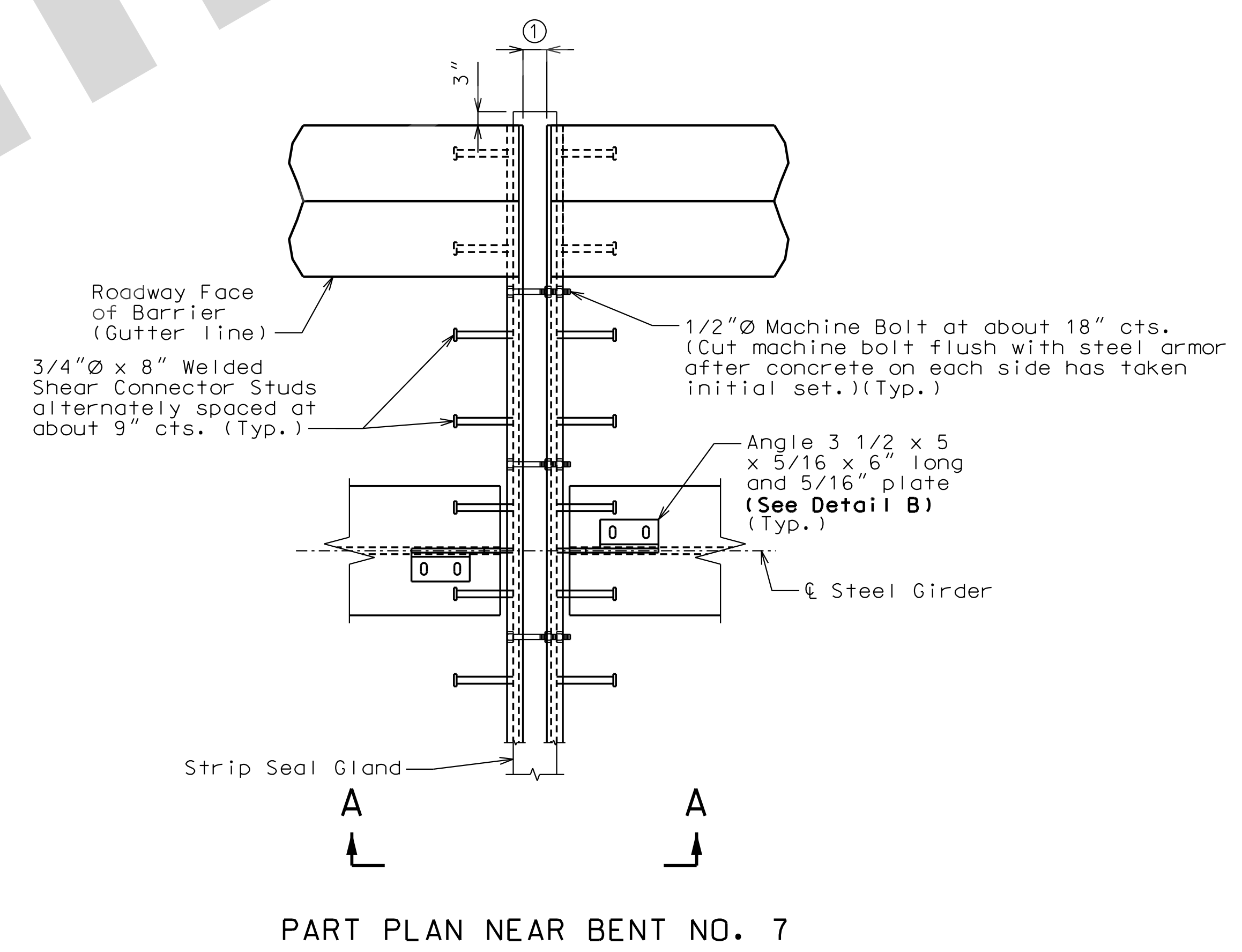
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP INC. 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

Notes:
For additional Details, Sections and General Notes of Strip Seal System not shown, see Sheet No. 13.



PART PLAN NEAR BENT NO. 2



PART PLAN NEAR BENT NO. 7

STRIP SEAL EXPANSION JOINT SYSTEM AT INTERMEDIATE BENTS NO. 2 AND 7

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 28

REV. IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 13

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

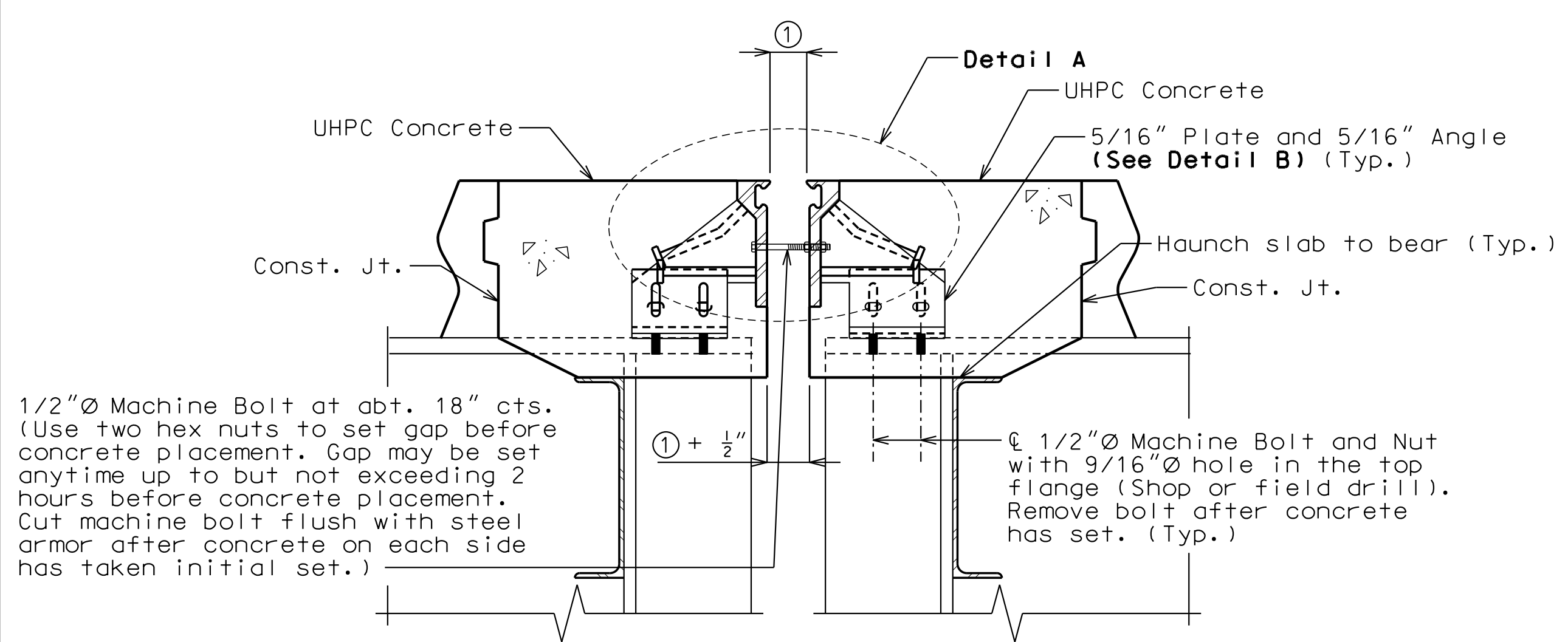
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

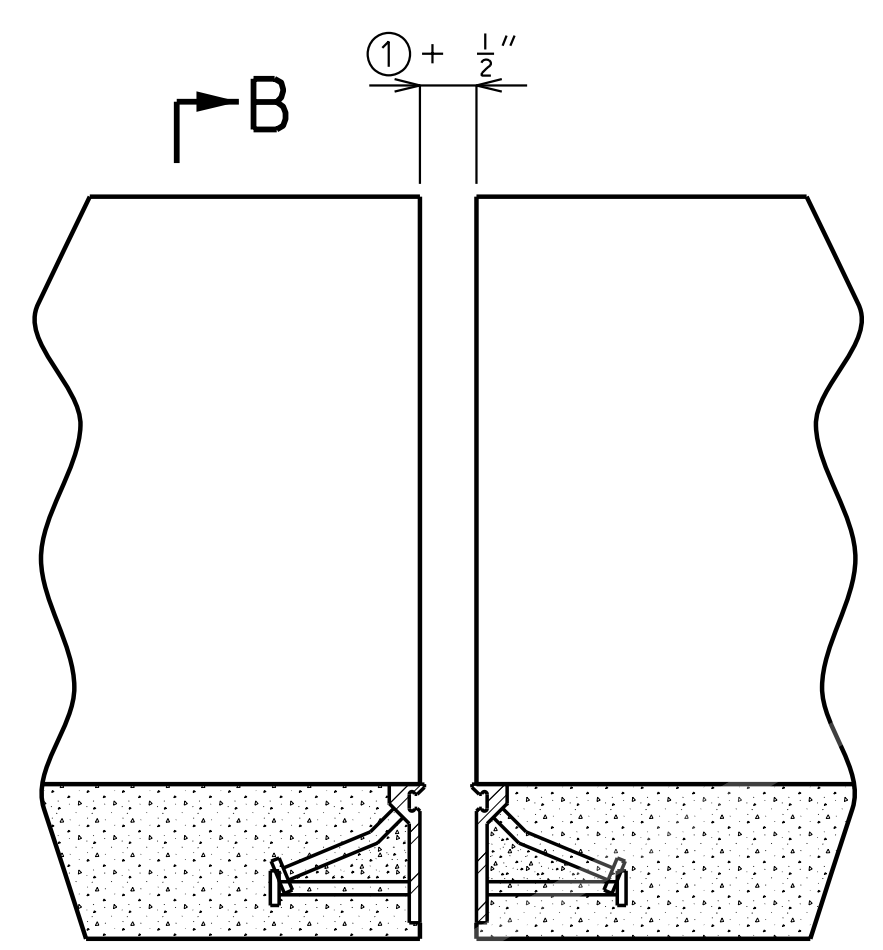
REV.



1/2"Ø Machine Bolt at abt. 18" cts. (Use two hex nuts to set gap before concrete placement. Gap may be set anytime up to but not exceeding 2 hours before concrete placement. Cut machine bolt flush with steel armor after concrete on each side has taken initial set.)

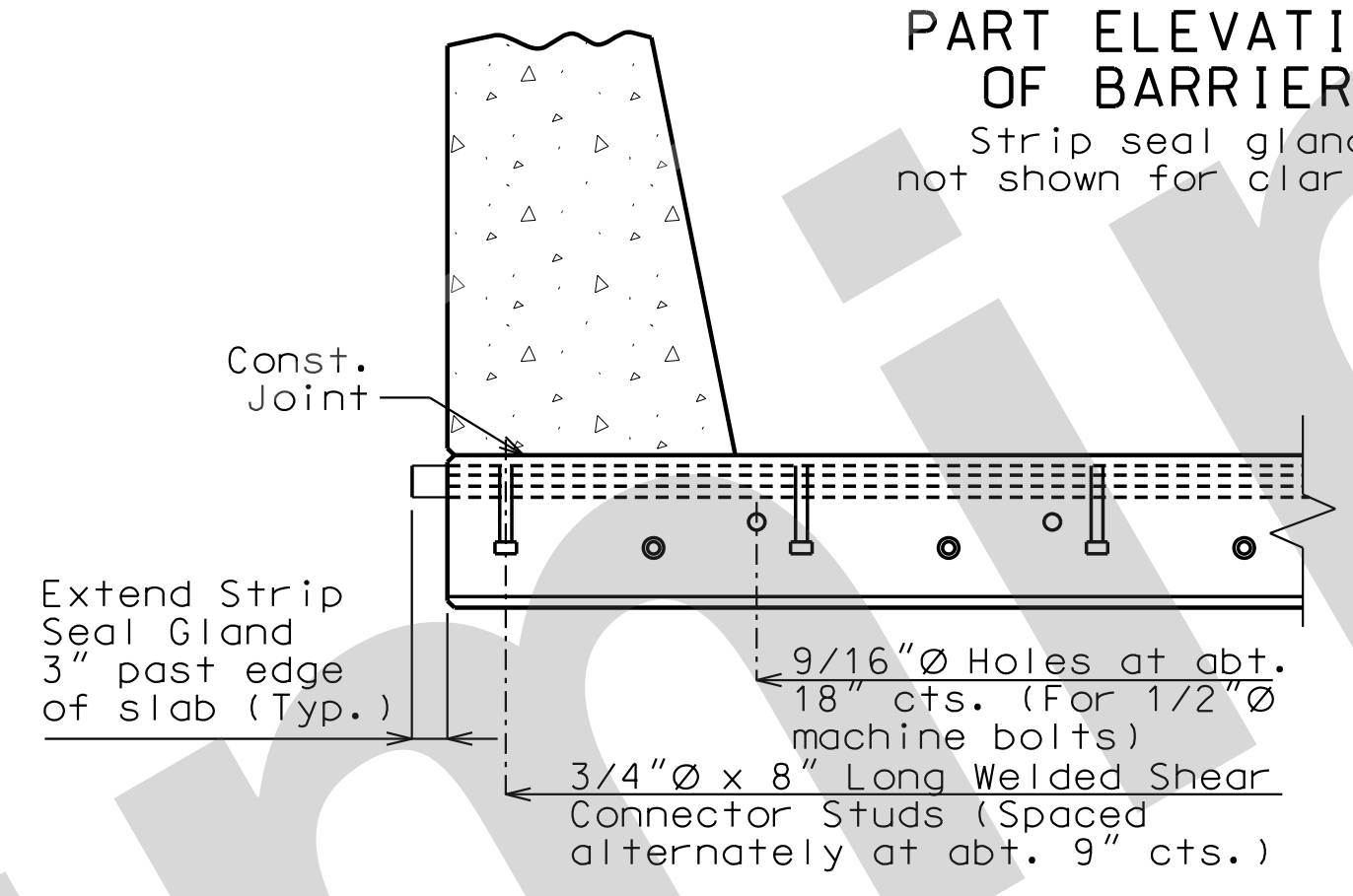
SECTION A-A

Notes: Strip seal gland not shown for clarity.
Slab reinforcement not shown for clarity.

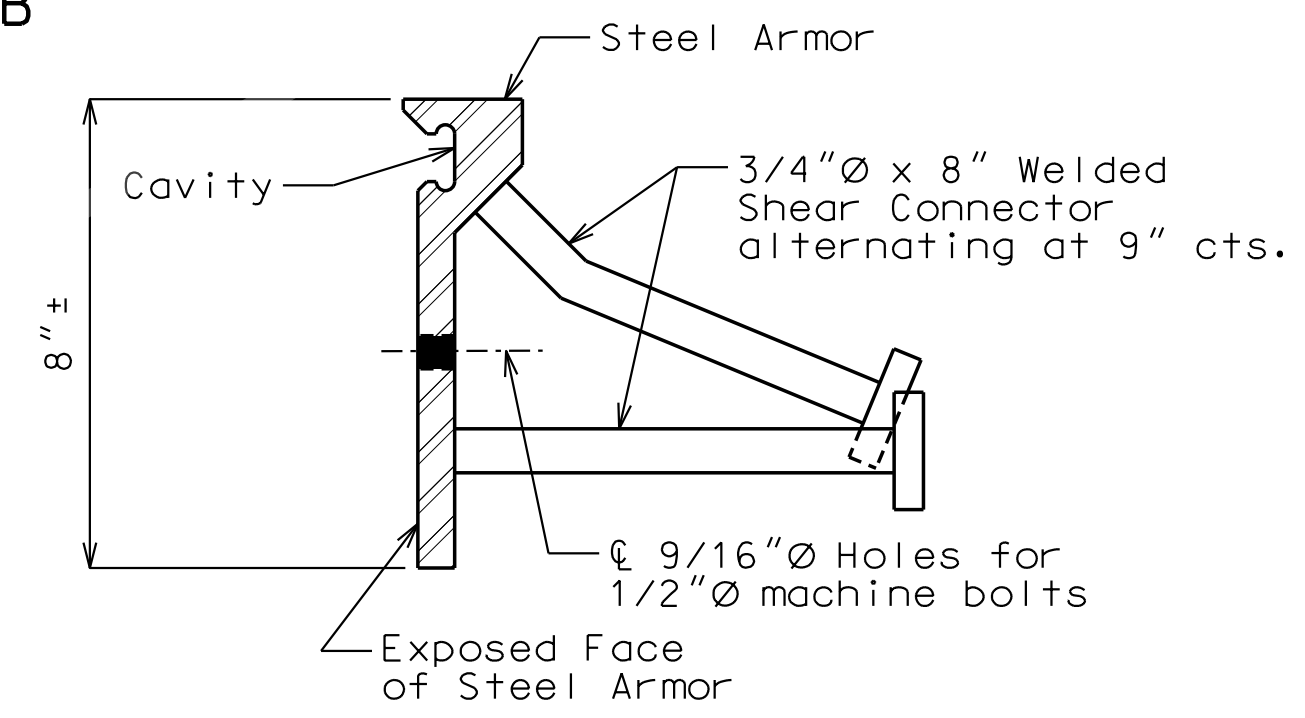


PART ELEVATION OF BARRIER

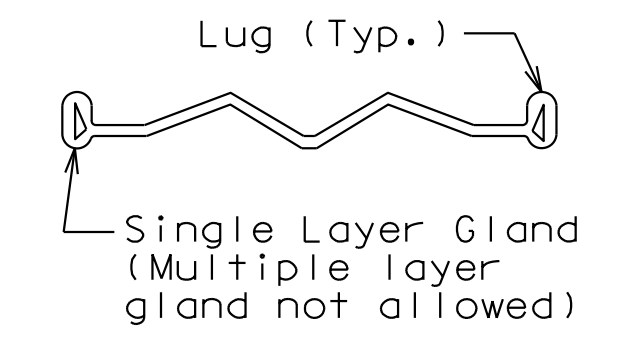
Strip seal gland not shown for clarity.



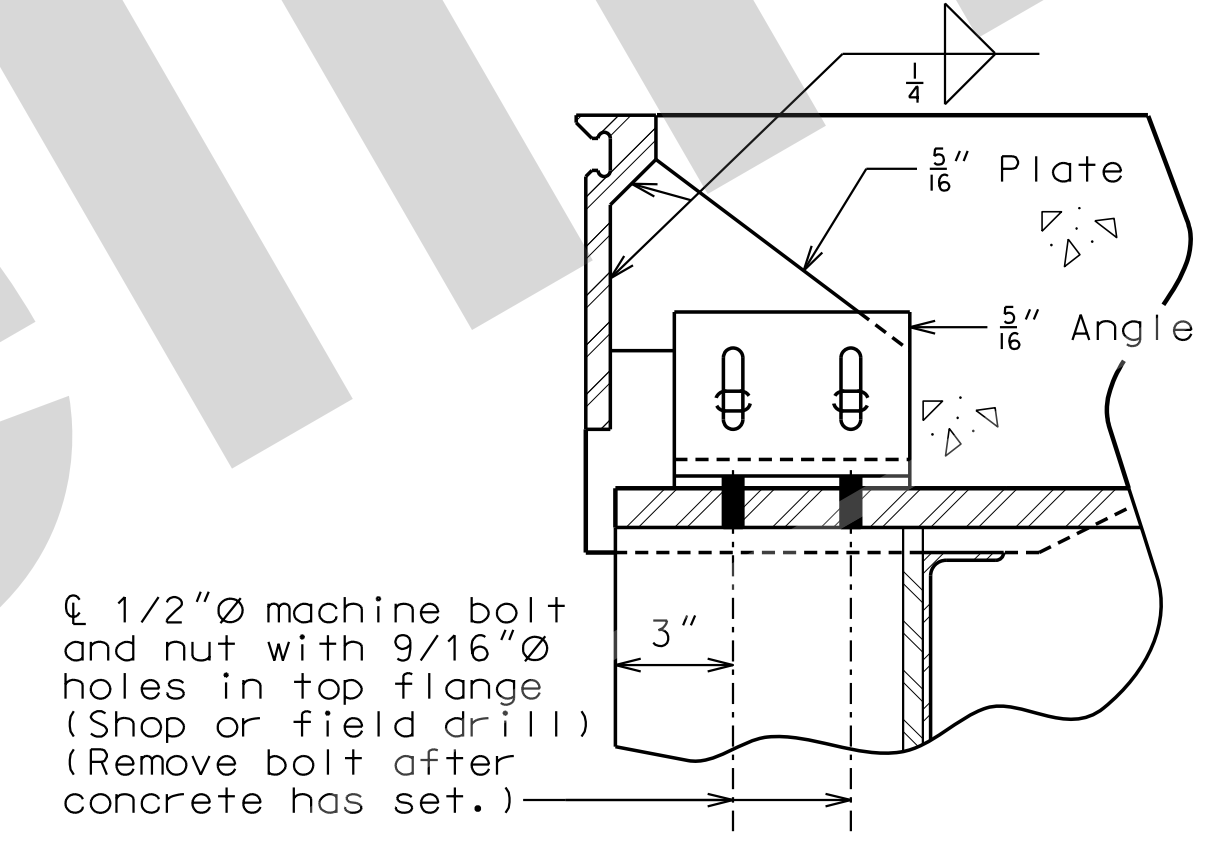
PART SECTION B-B



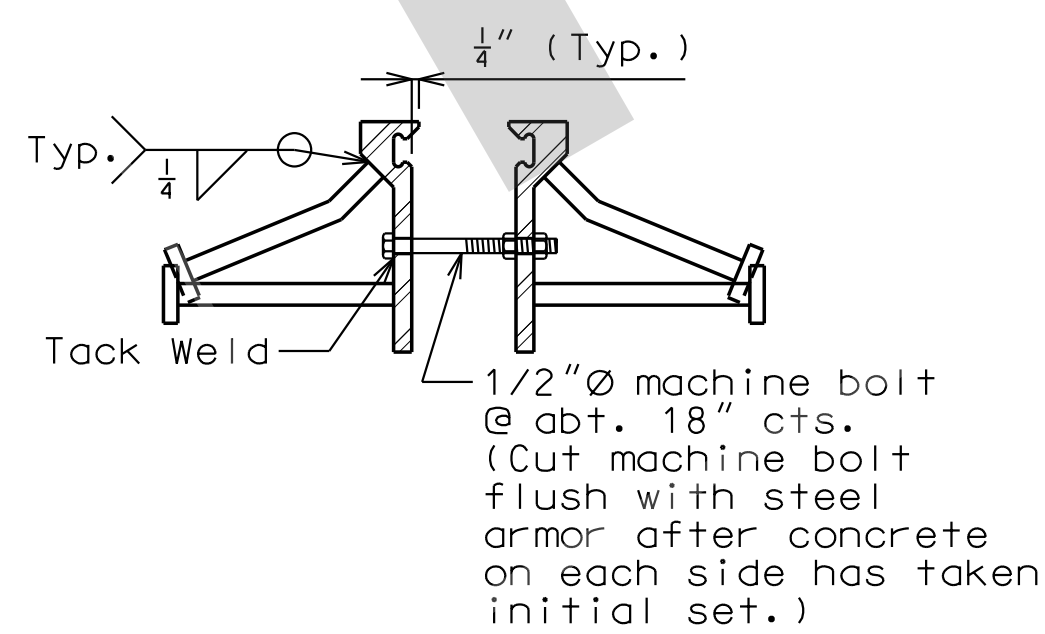
DETAIL OF JOINT ARMOR



DETAIL OF GLAND



DETAIL B



DETAIL A

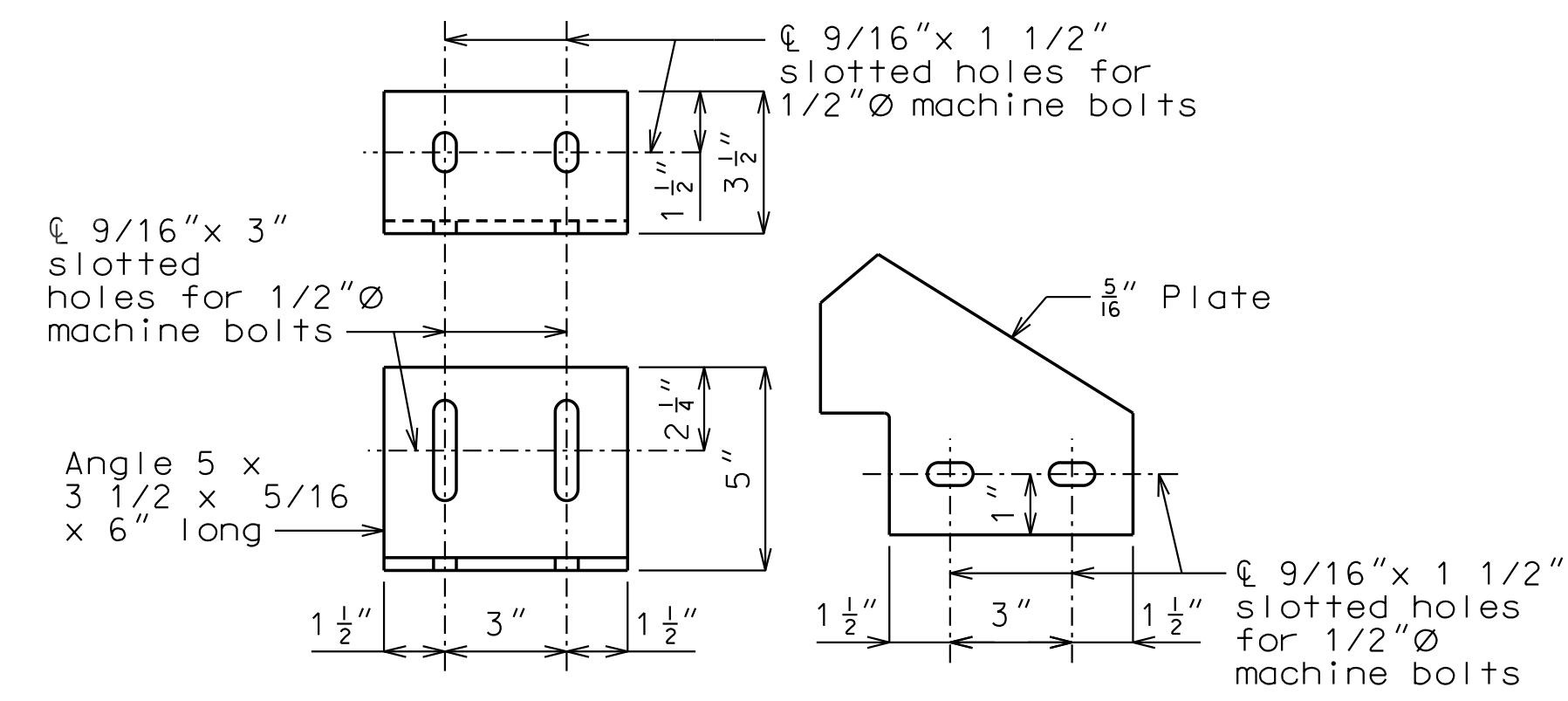


Table of Allowed Transverse Strip Seal Expansion Joint System

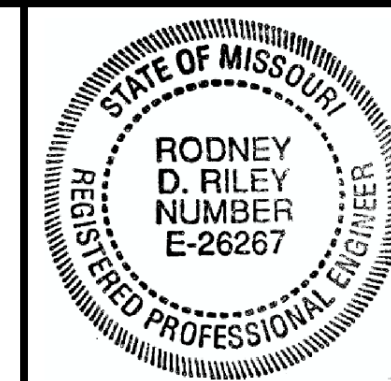
Manufacturer	Strip Seal System (Designated Name)	Movement Parallel to RDWY	Allowed Installation Gap Normal to Joint at RDWY Surface @ Air/Surface Temperature ①						③
			@ 40°F	@ 50°F	@ 60°F	@ 70°F	@ 80°F	@ 90°F	
D S Brown	Strip seal L2-500	3 3/16"	2 15/16"	2 11/16"	2 1/2"	2 5/16"	2 1/16"	1 7/8"	□

STRIP SEAL EXPANSION JOINT SYSTEM AT INTERMEDIATE BENTS NO. 2 AND 7

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 13 of 28



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 15

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

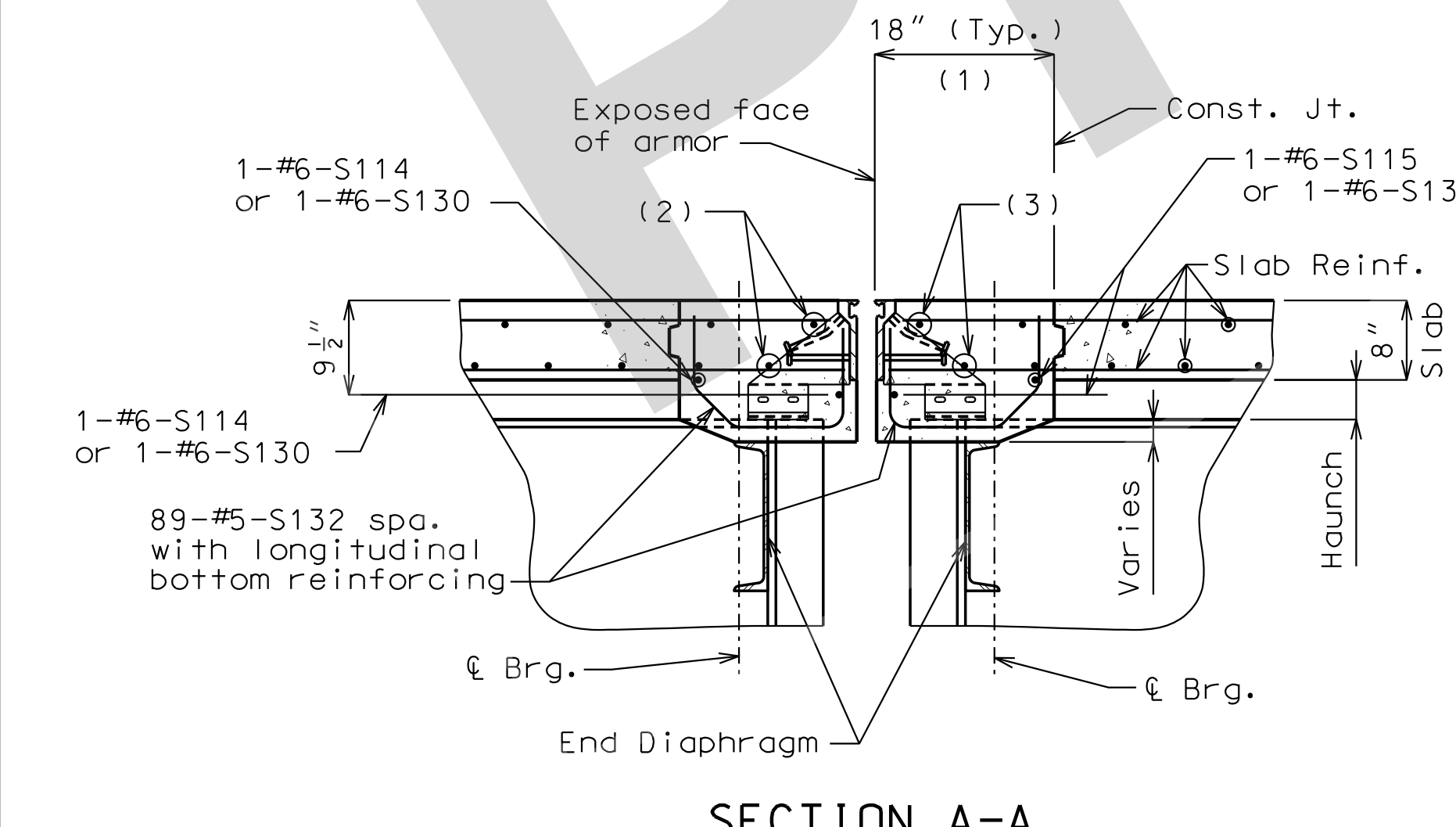
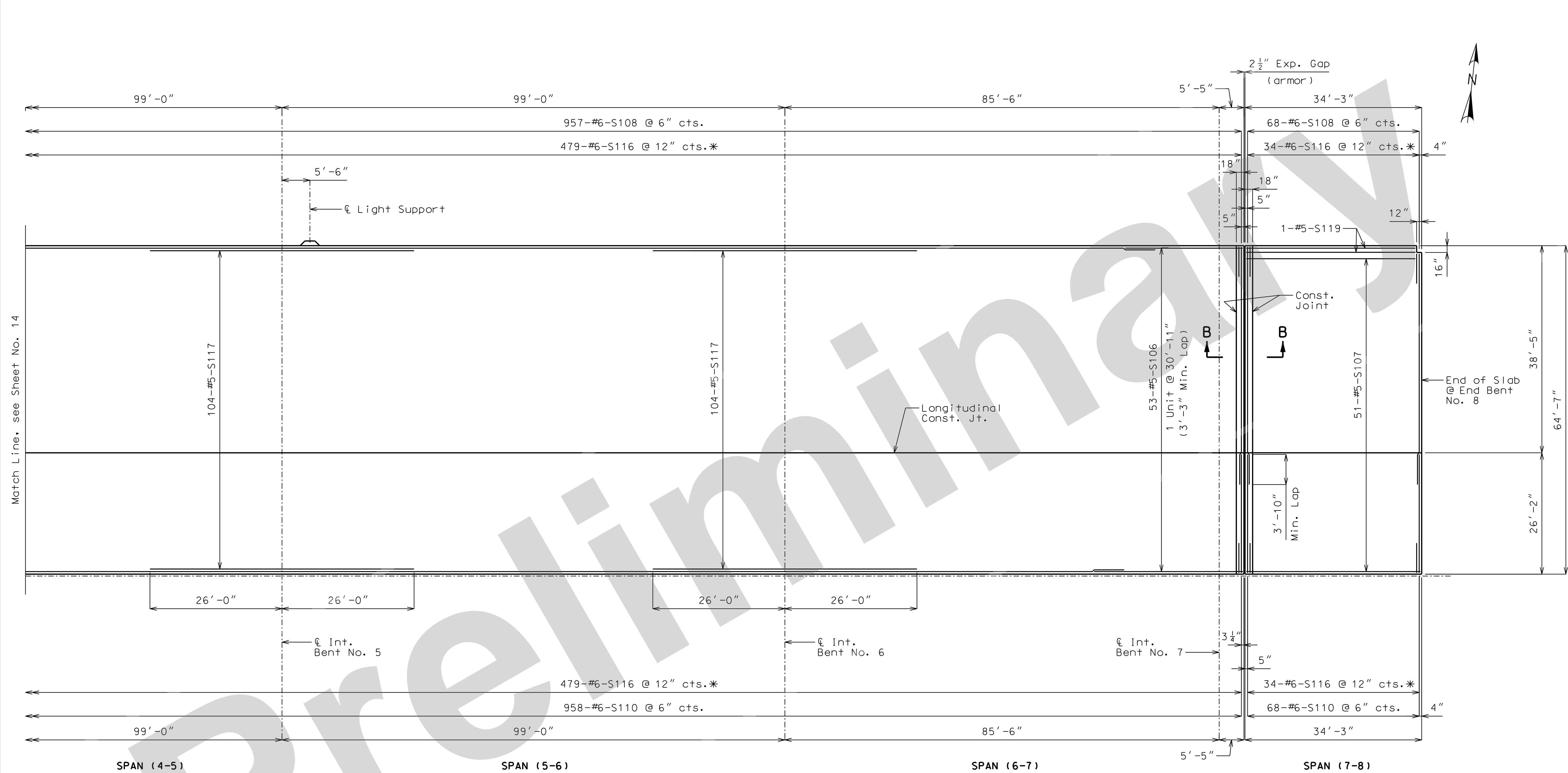
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

JACOBS GROUP ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

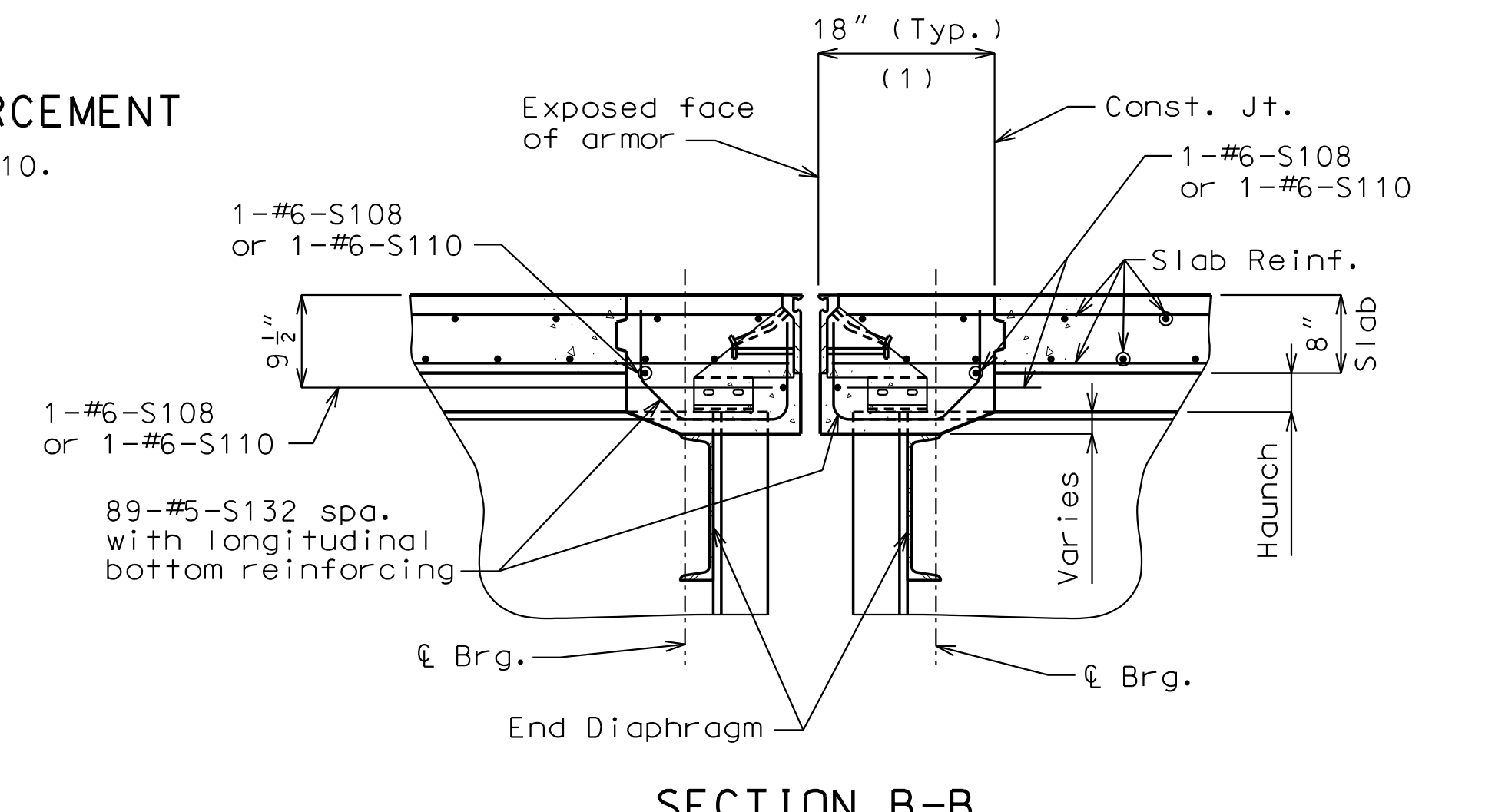
REV.



PLAN OF SLAB SHOWING TOP REINFORCEMENT

* Space S116 between every other S108 or S110.

- (1) Concrete in each blockout shall be Ultra-high Performance Concrete (UHPC). See Special Provisions.
- (2) #6-S114 at skewed section.
- (3) #6-S115 at skewed section.



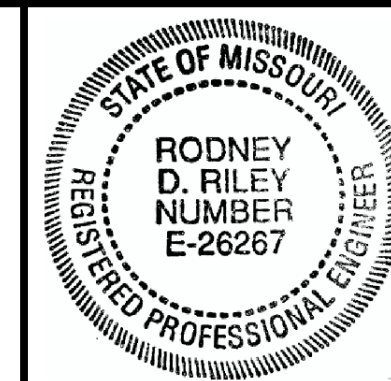
SECTION B-B

Notes:
Work this sheet with Sheet Nos. 14, 16, & 17.

Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 28



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 18

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

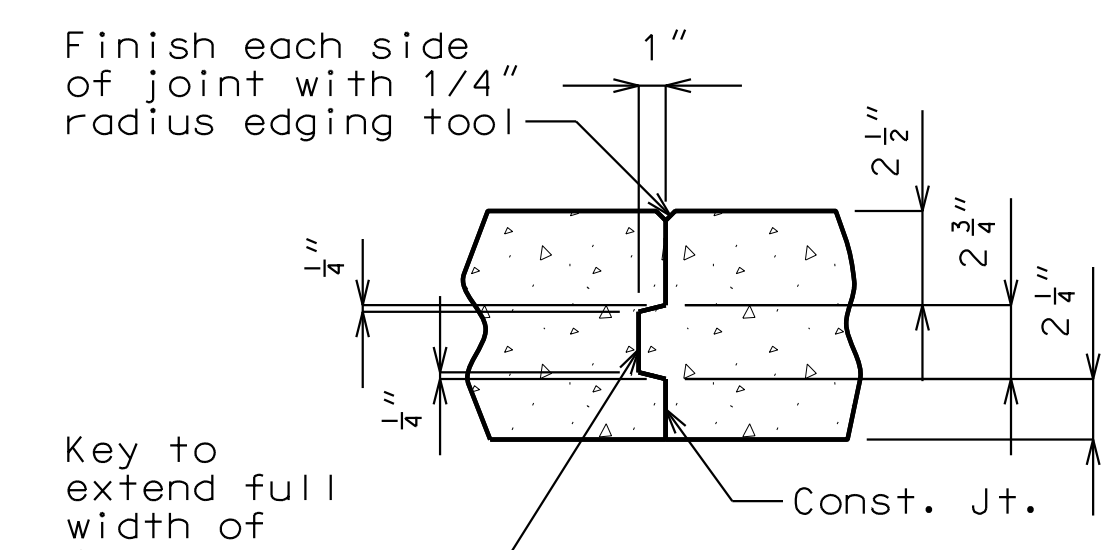
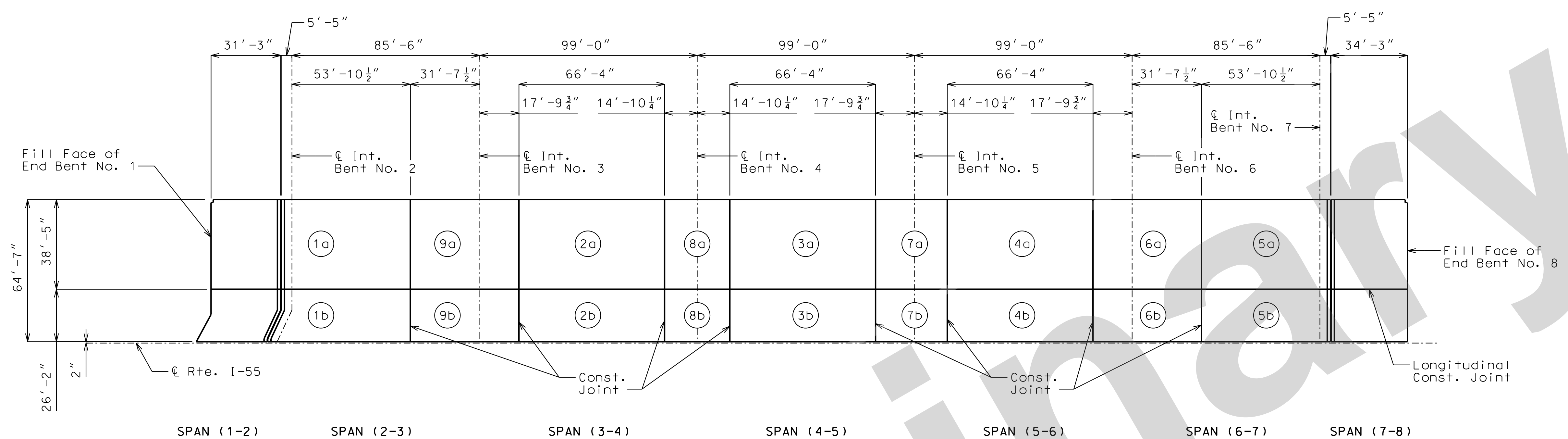
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

JACOBS

ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704



SLAB CONSTRUCTION JOINT

	Sequence of Pours									Min. Rate of Pour Cu. Yds./Hr.			
	Direction									With Retarder		No Retarder	
	1	2	3	4	5	6	7	8	9	a	b	a	b
Basic Sequence	Either Direction									25	25	25	25
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec. 703.													
Alternate A Pours	1	9 + 2	8 + 3	7 + 4	6 + 5				30	25	50	30	
Alternate B Pours	1 + 9 + 2	8 + 3	7 + 4	6 + 5				30	25	50	30		
Alternate C Pours	1 + 9 + 2 + 8	3 + 7 + 4 + 6 + 5					30	25	50	30			
Alternate D Pours	1 + 9 + 2 + 8 + 3 + 7 + 4 + 6 + 5							30	25	50	30		

Notes:

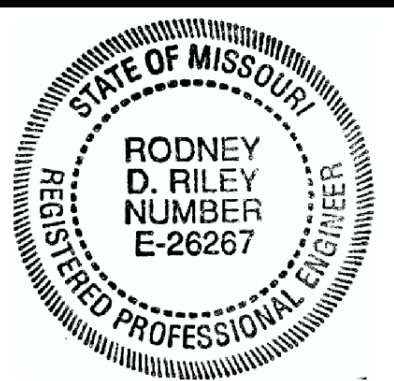
The contractor shall furnish an approved retarder to retard the set of the concrete to 2.5 hours and shall pour and satisfactorily finish the slab pours at the rate given.

End diaphragms at expansion devices may be poured with a construction joint between the diaphragm and slab, or monolithic with the slab.

The concrete diaphragm at the intermediate bents and integral end bents shall be poured a minimum of 30 minutes and a maximum of 2 hours before the slab is poured.

The longitudinal construction joints may be omitted with the approval of the engineer. When the longitudinal construction joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.47.

SLAB POURING SEQUENCE



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 21

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

REVISIONS

NO. DESCRIPTION

DATE

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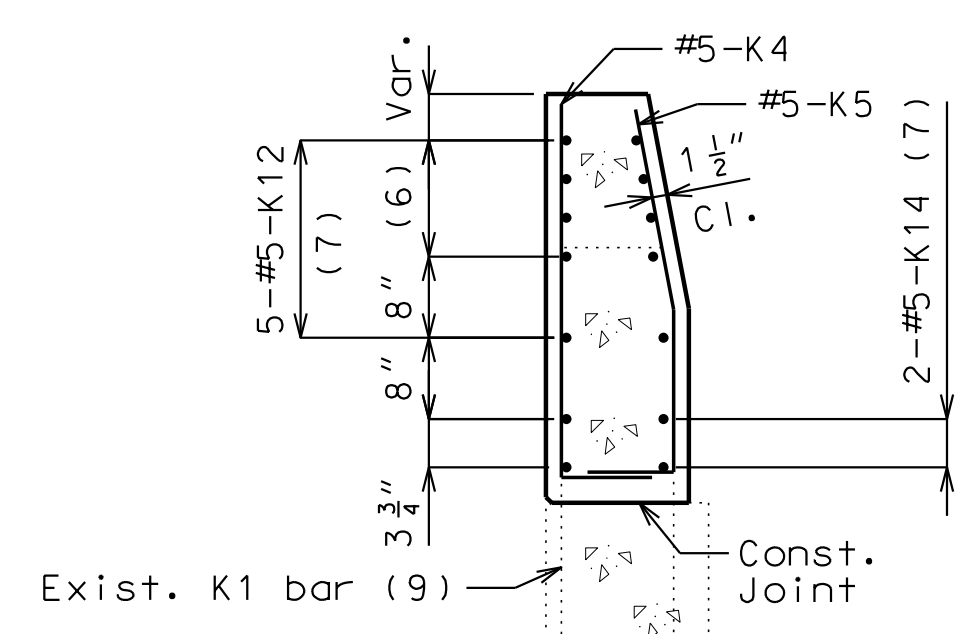
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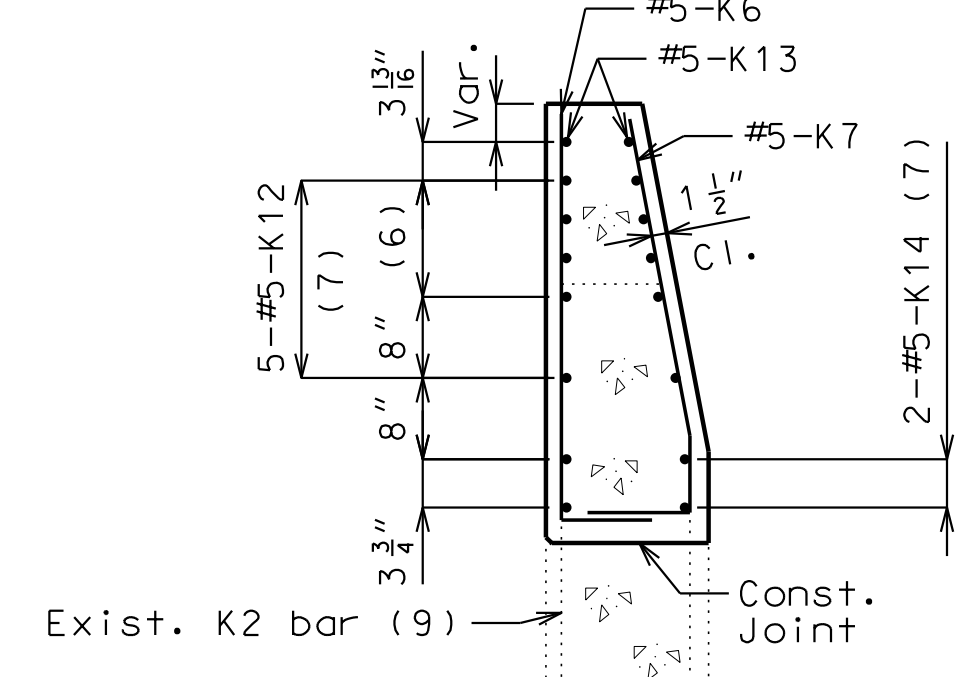
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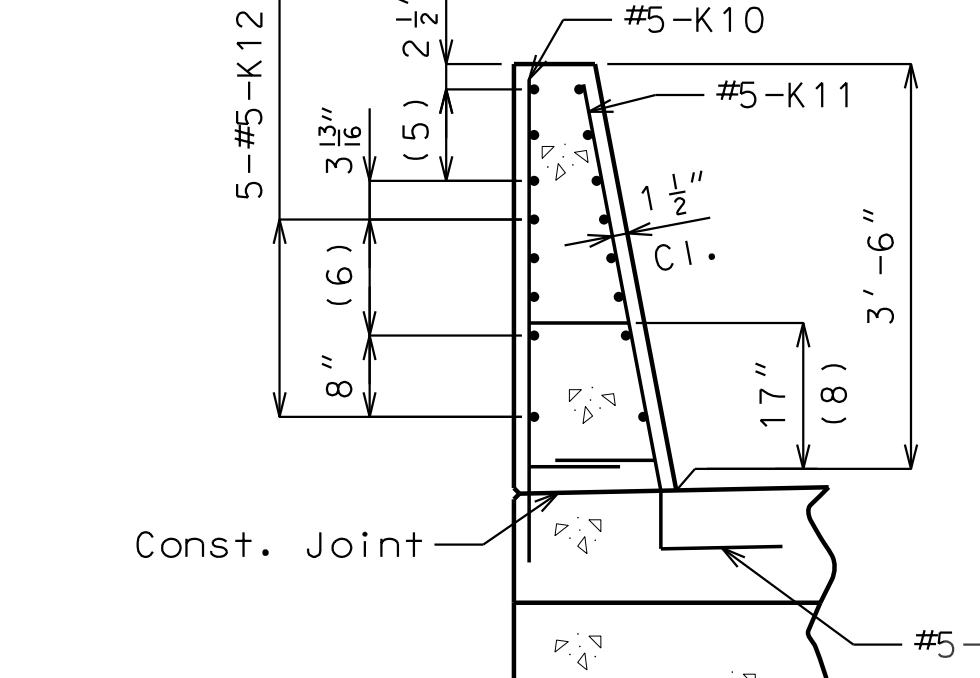
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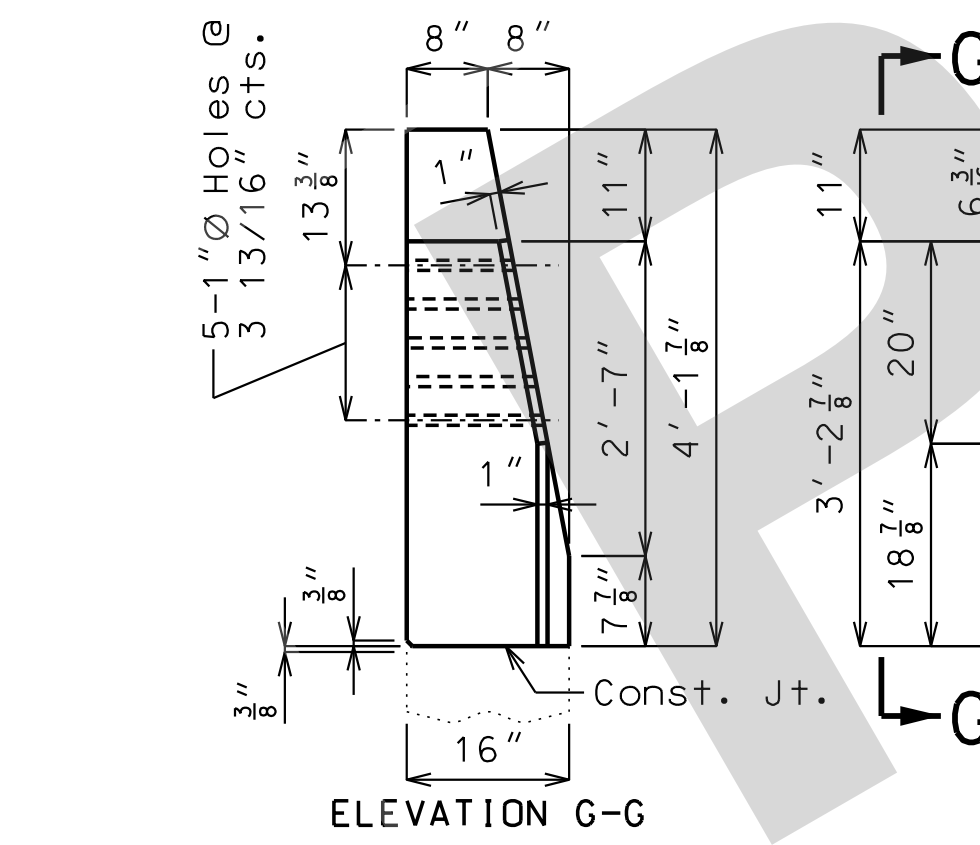
SECTION A-A



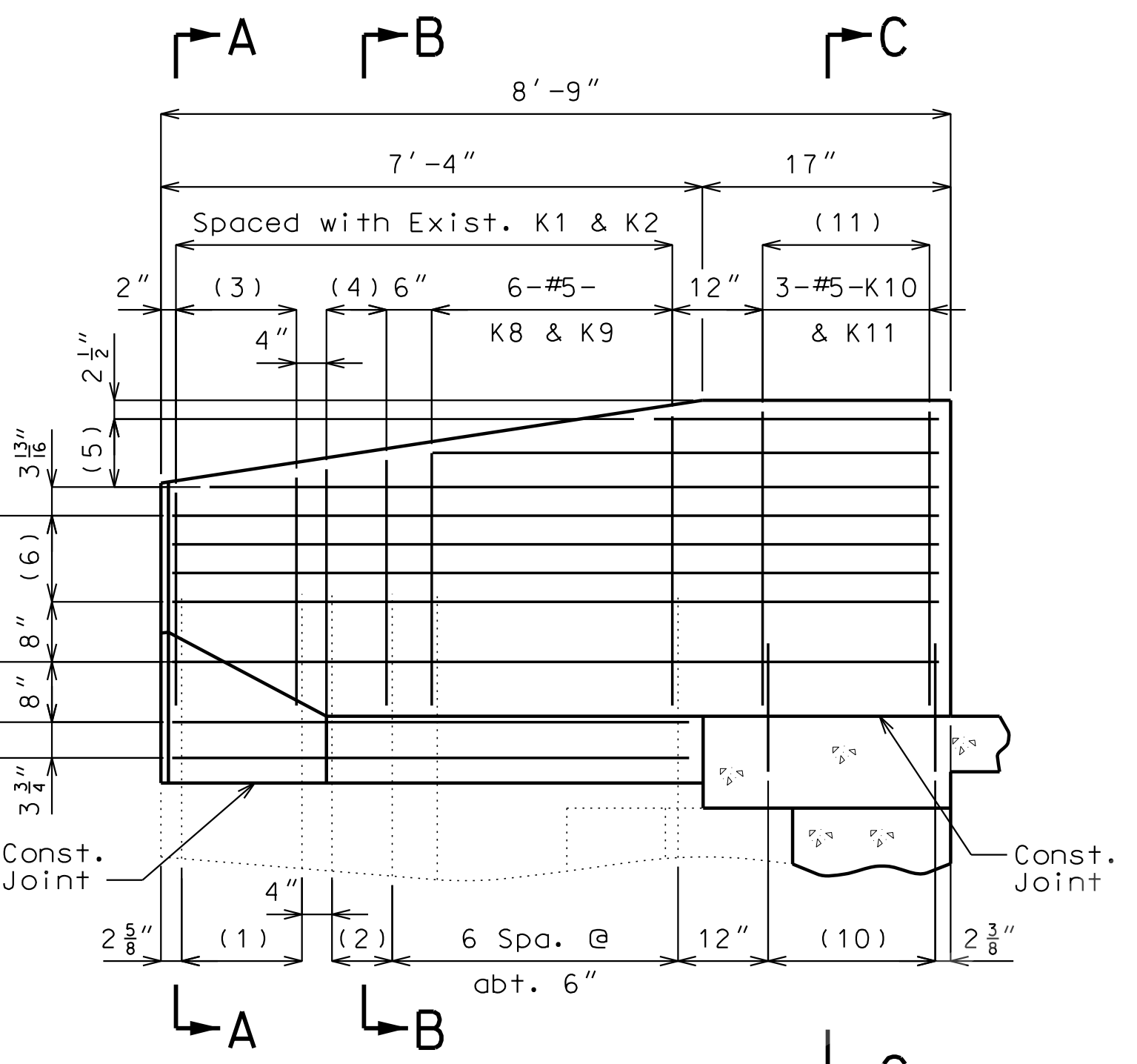
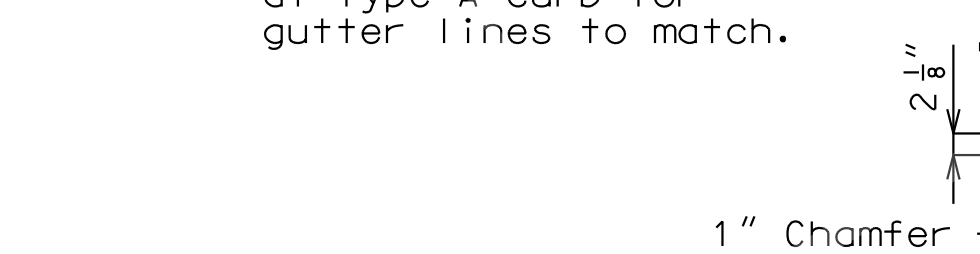
SECTION B-B



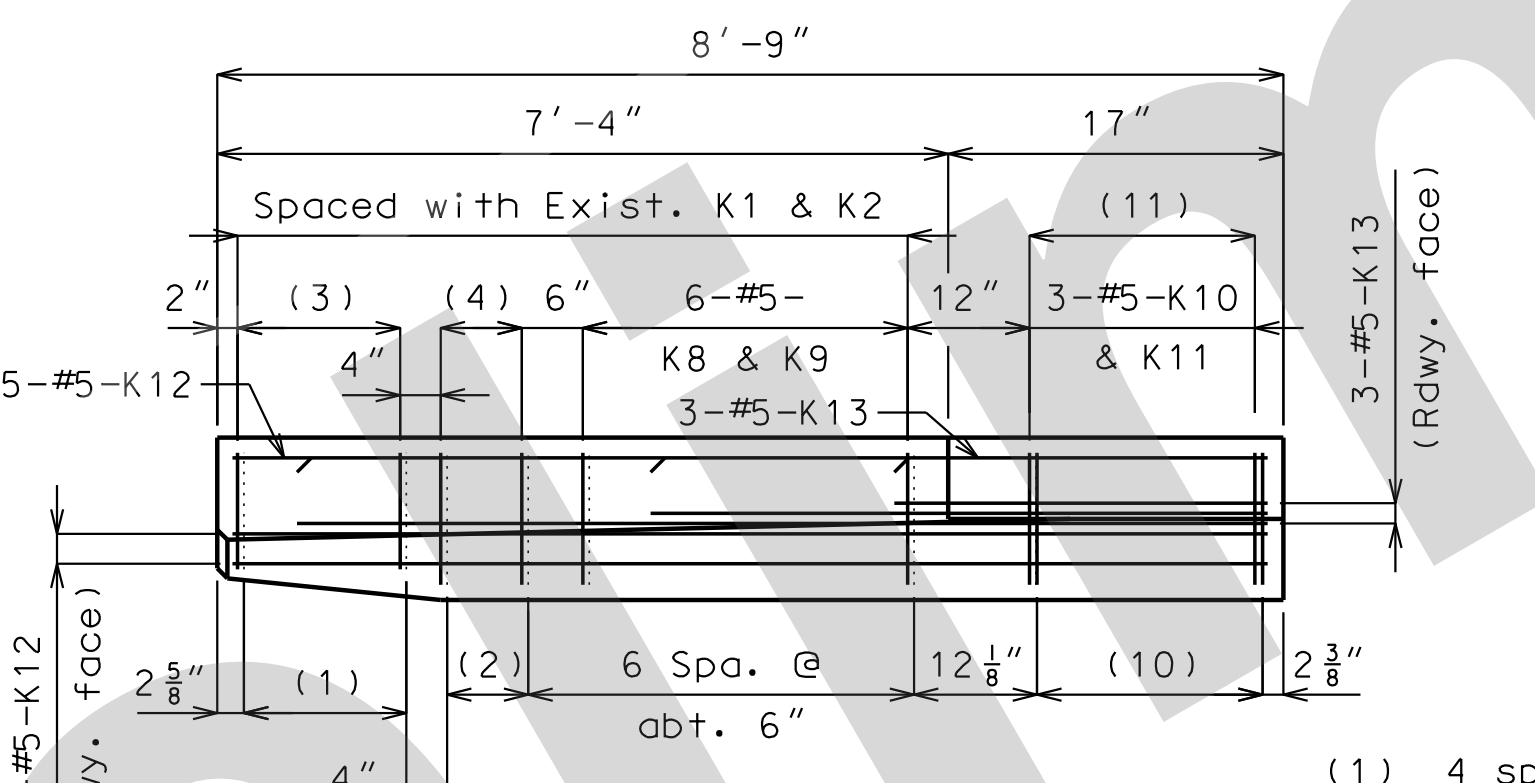
SECTION C-C



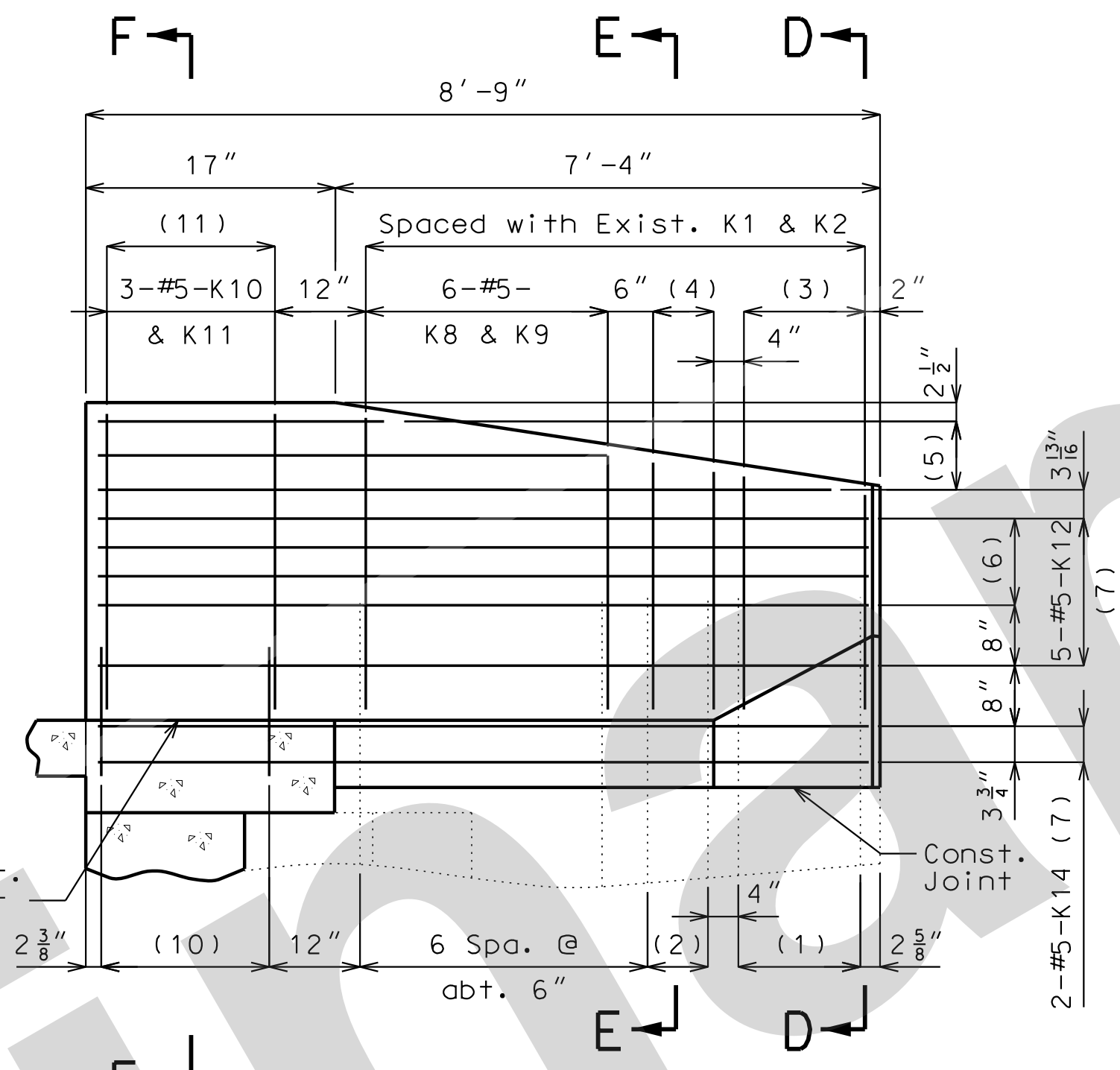
ELEVATION G-G



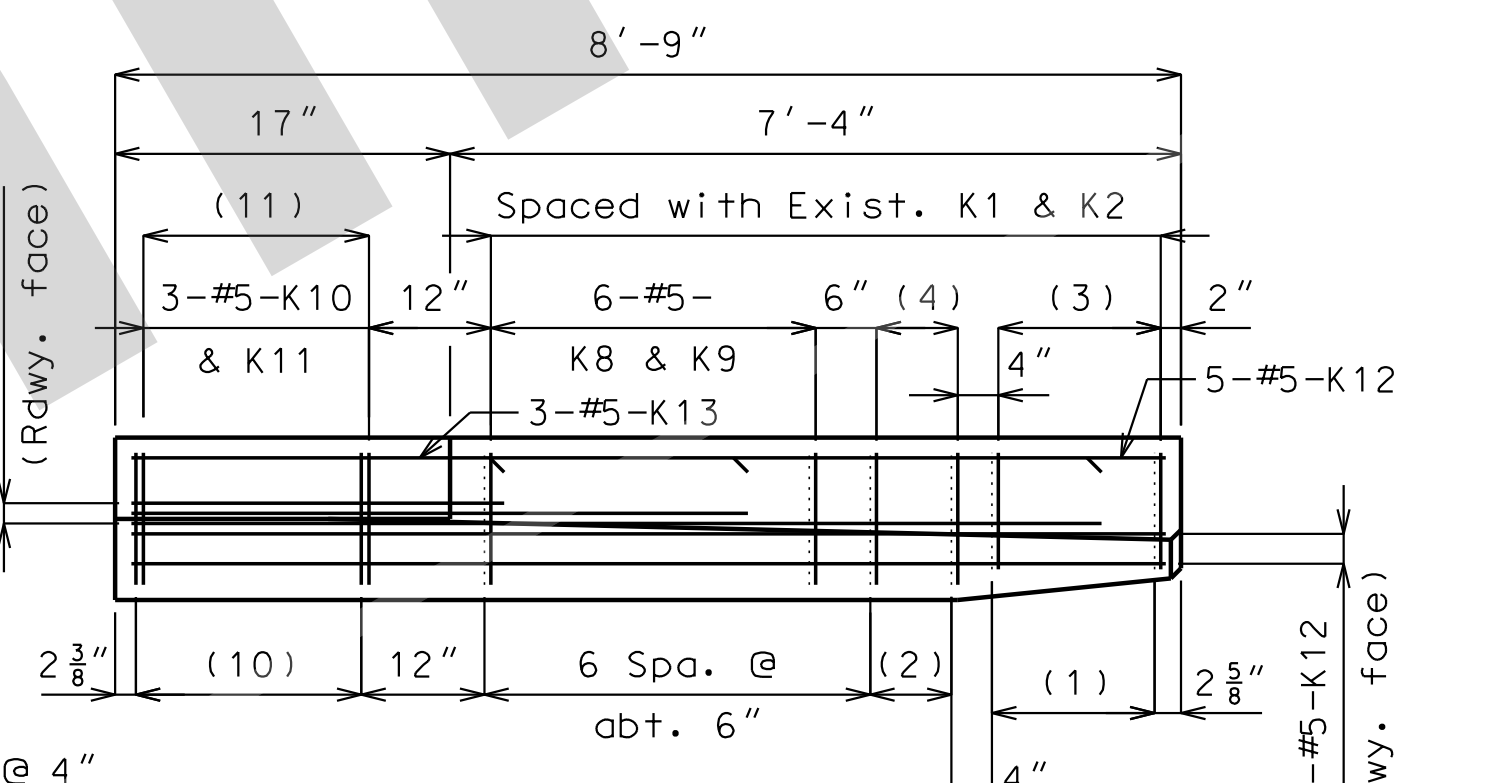
PART SECTION AT END BENT NO. 1



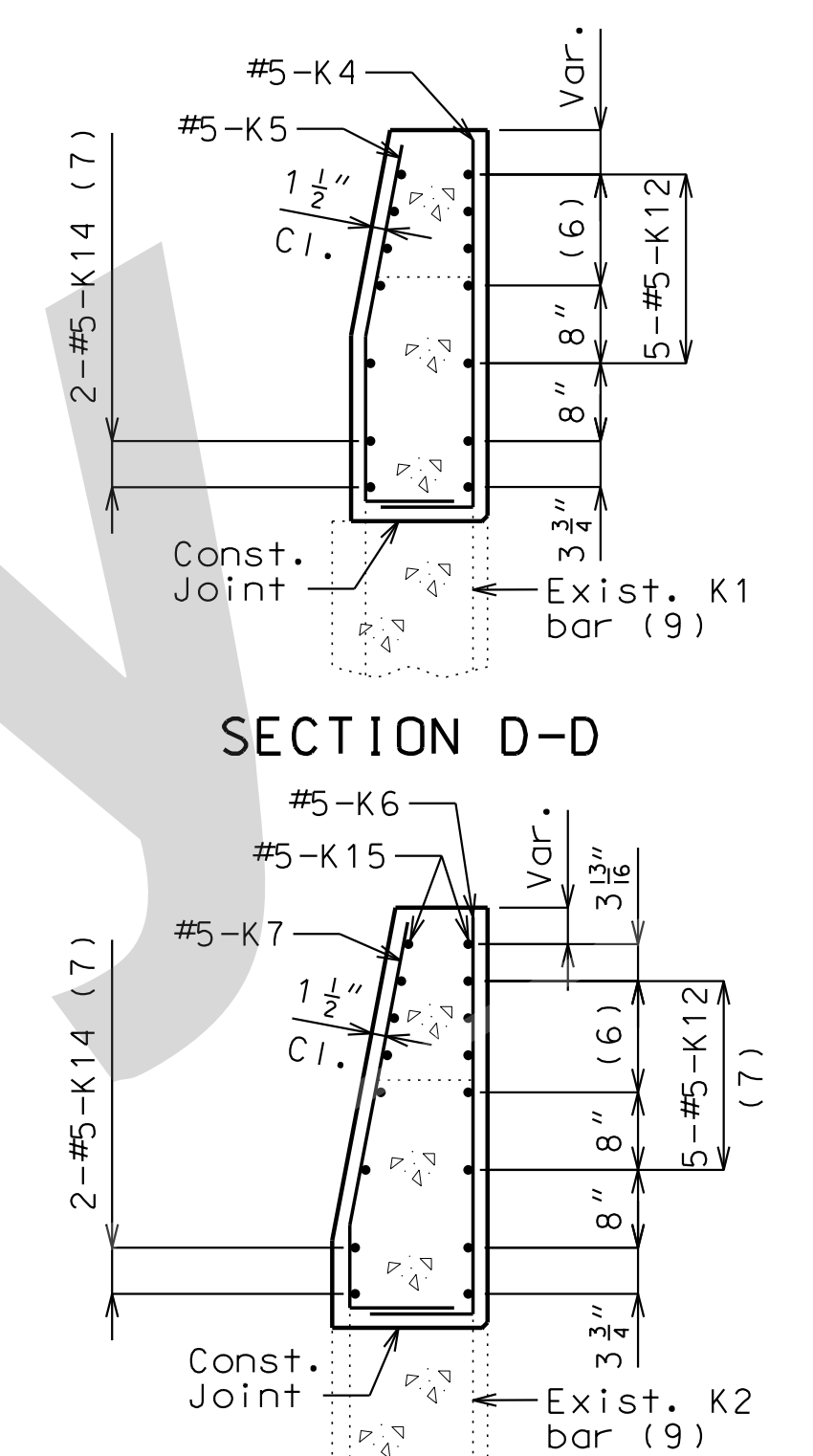
PART PLAN AT END BENT NO. 1



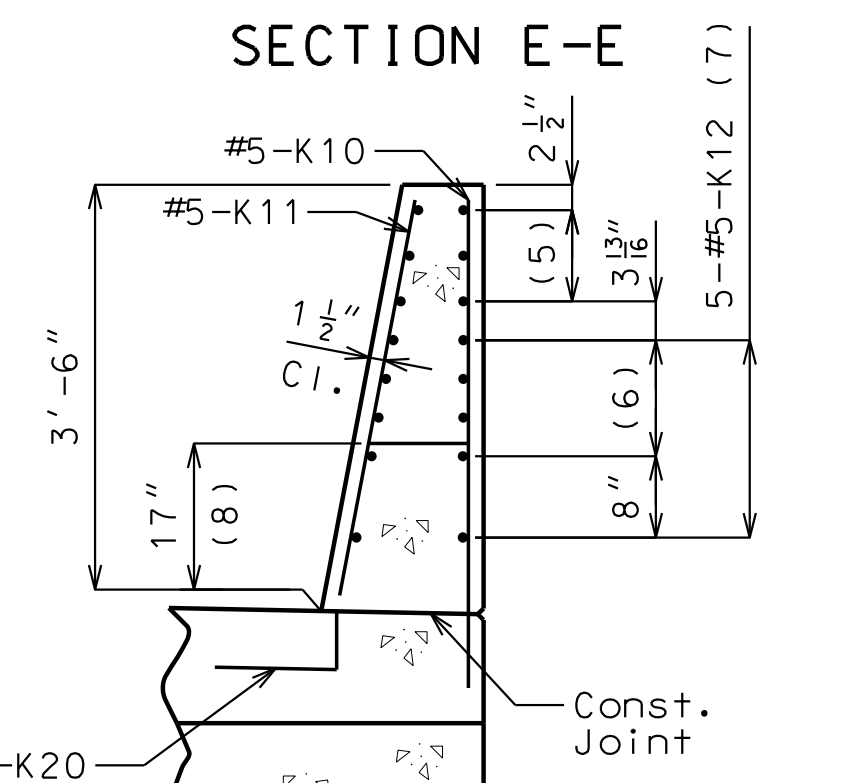
PART SECTION AT END BENT NO. 8



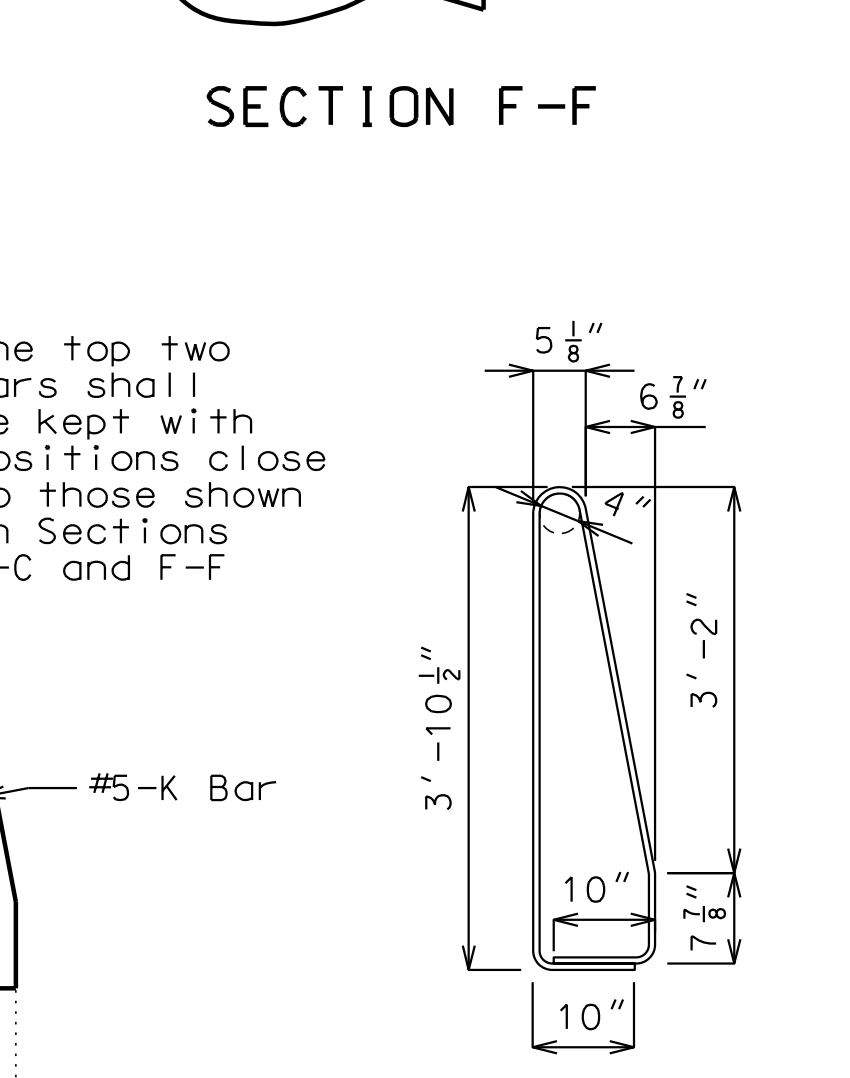
PART PLAN AT END BENT NO. 8



SECTION D-D



SECTION E-E



SECTION F-F

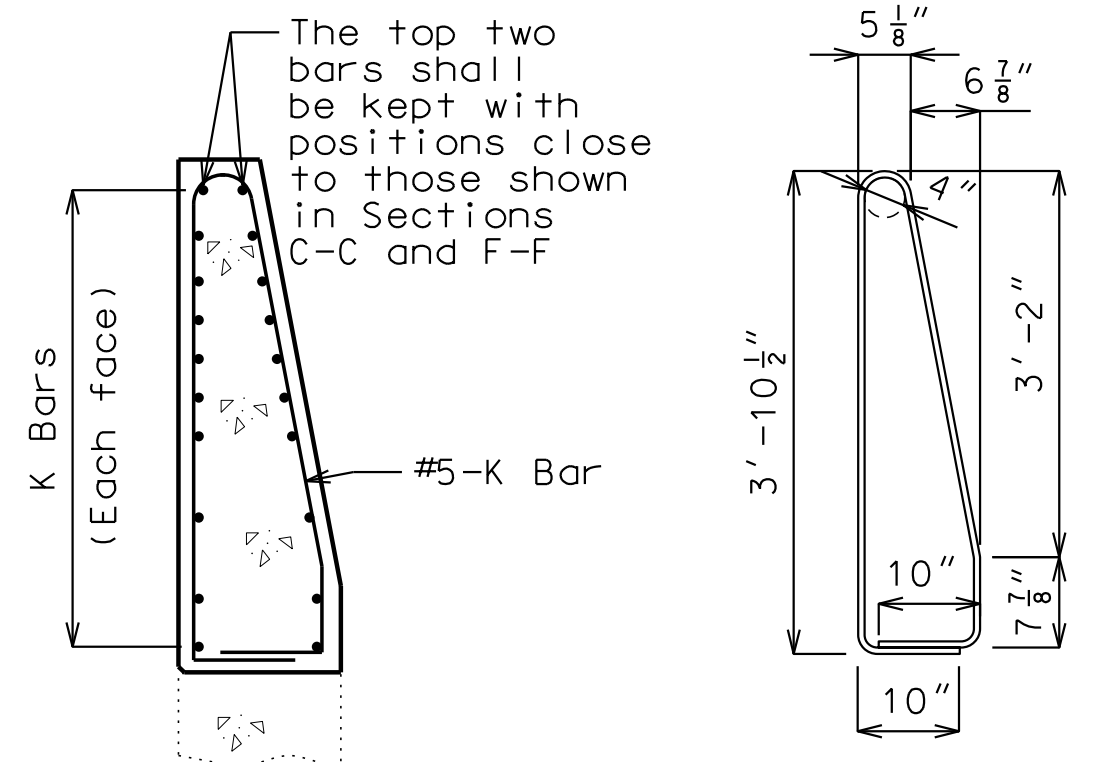
- (1) 4 spaces @ 4"
- (2) 2 spaces @ 4"
- (3) 5-#5-K4 & K5
- (4) 3-#5-K6 & K7
- (5) 3-#5-K13 @ 4 1/2" cts., each face
- (6) 3 Spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) To top of bar
- (9) Existing reinforcing bars to be cleaned and straightened.
- (10) 3-#5-K20 spaced @ 12"
- (11) Spaced with K20

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

DETAILS OF GUARD RAIL ATTACHMENT

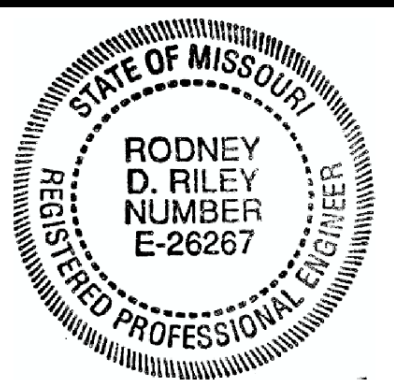
TYPE D BARRIER AT END BENTS - LEFT CURB

Note: This drawing is not to scale. Follow dimensions.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 21 of 28

Detailed July 2021
Checked July 2021



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 22

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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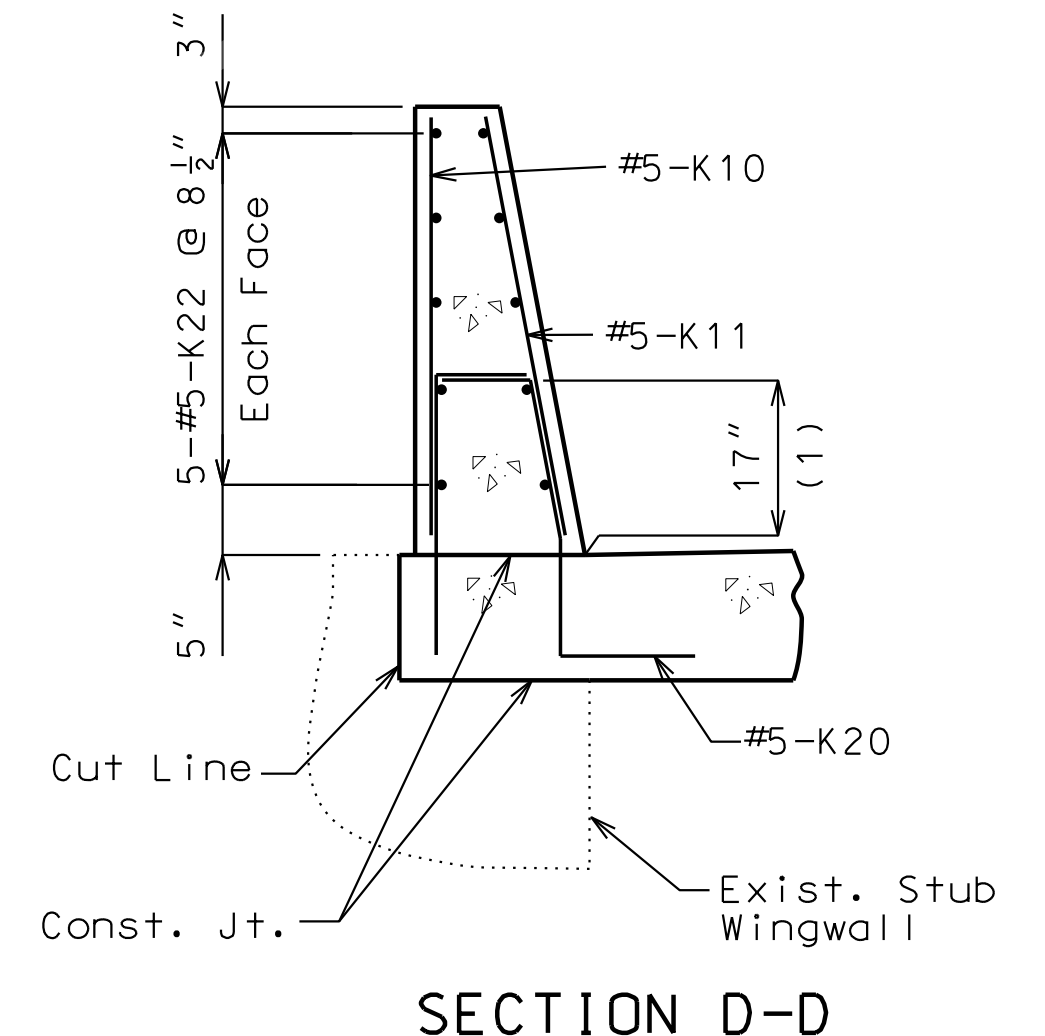
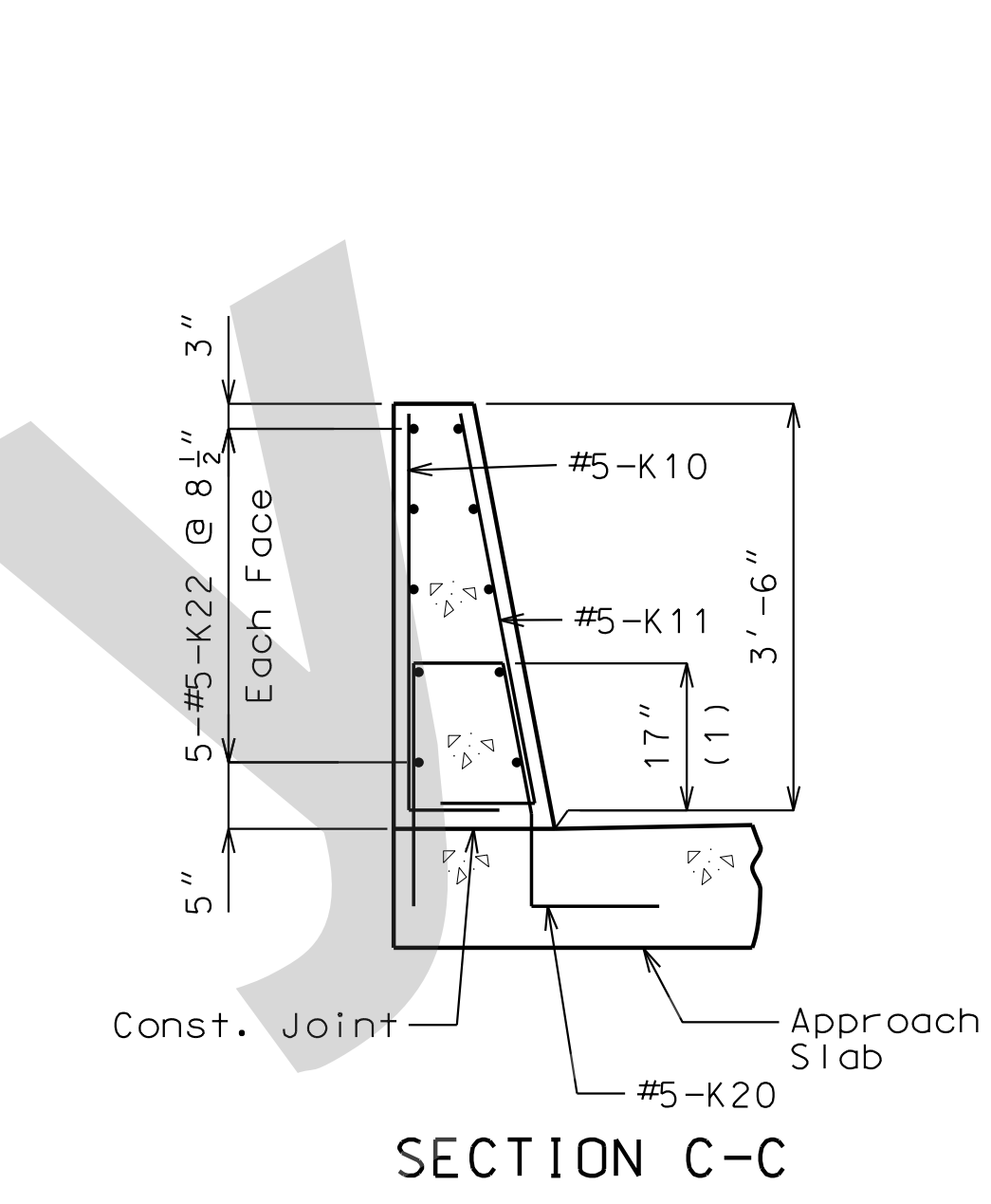
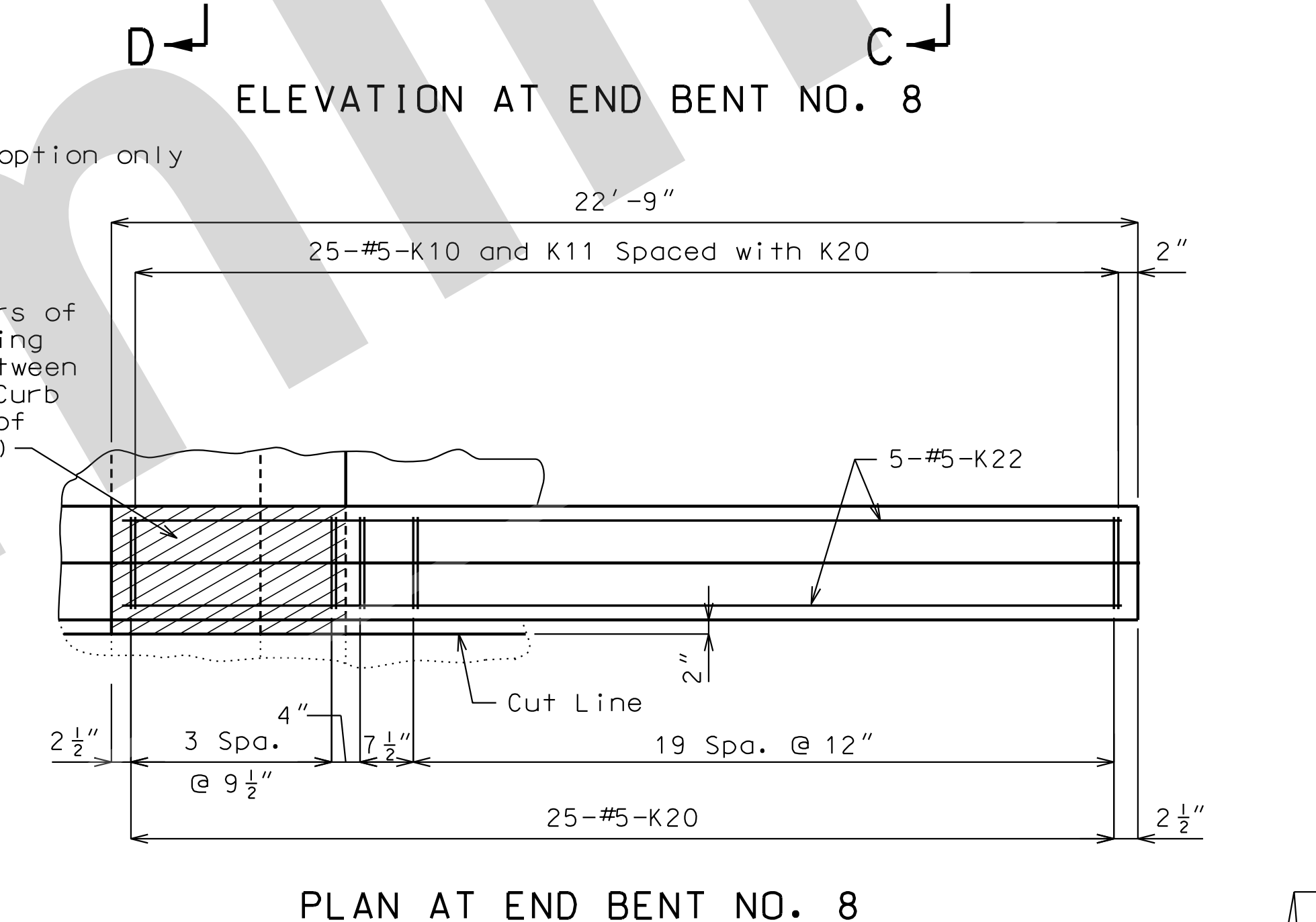
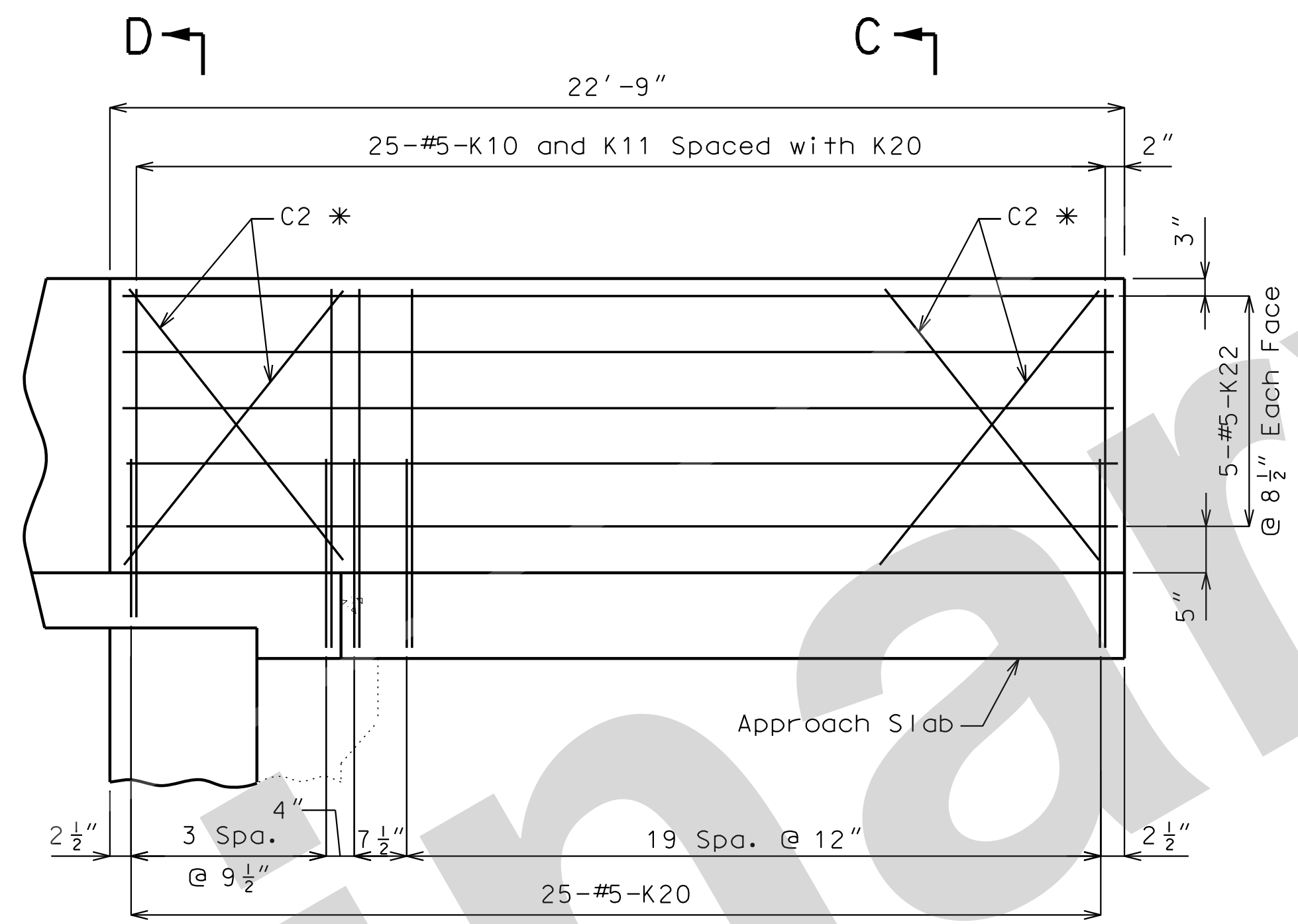
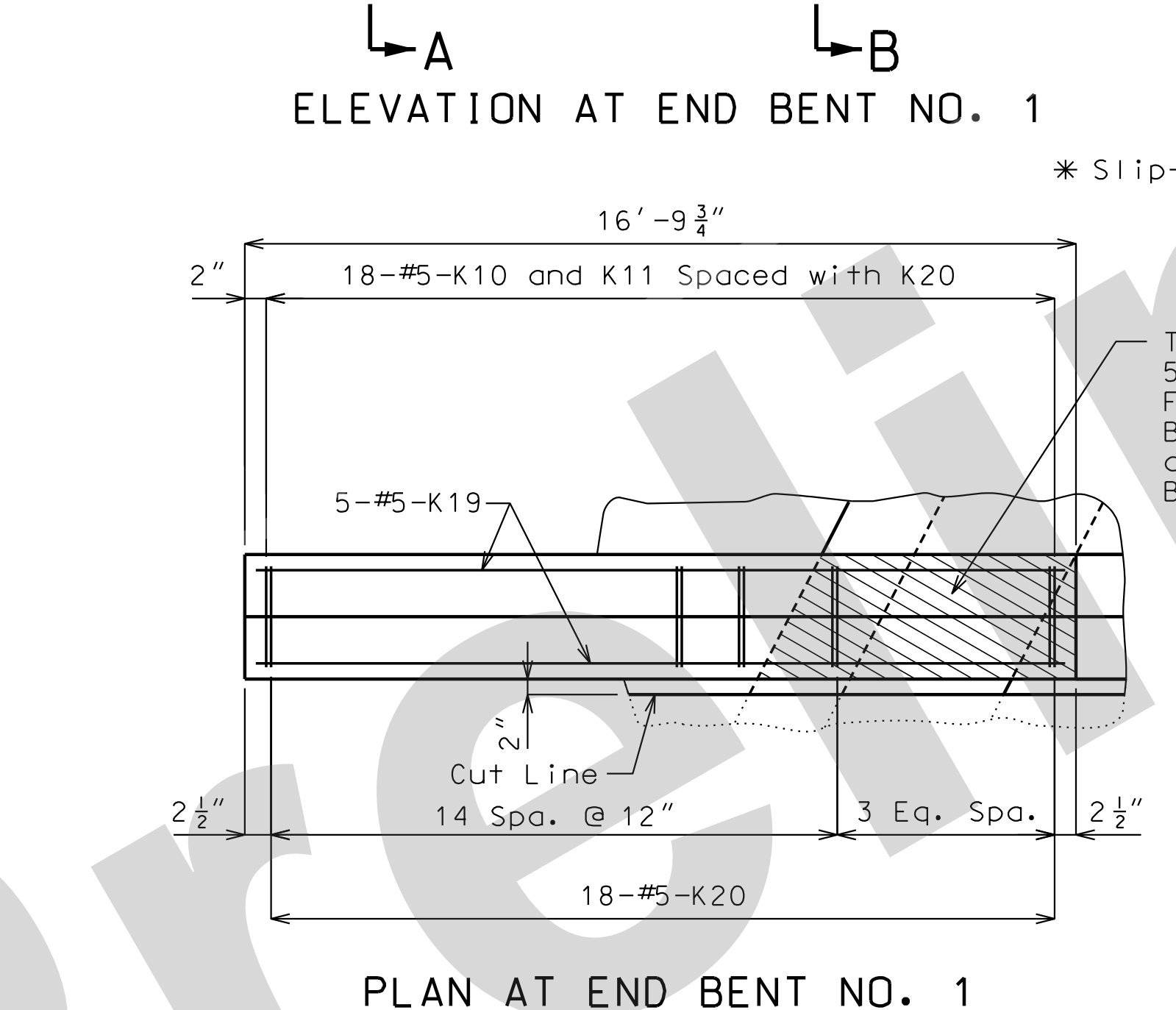
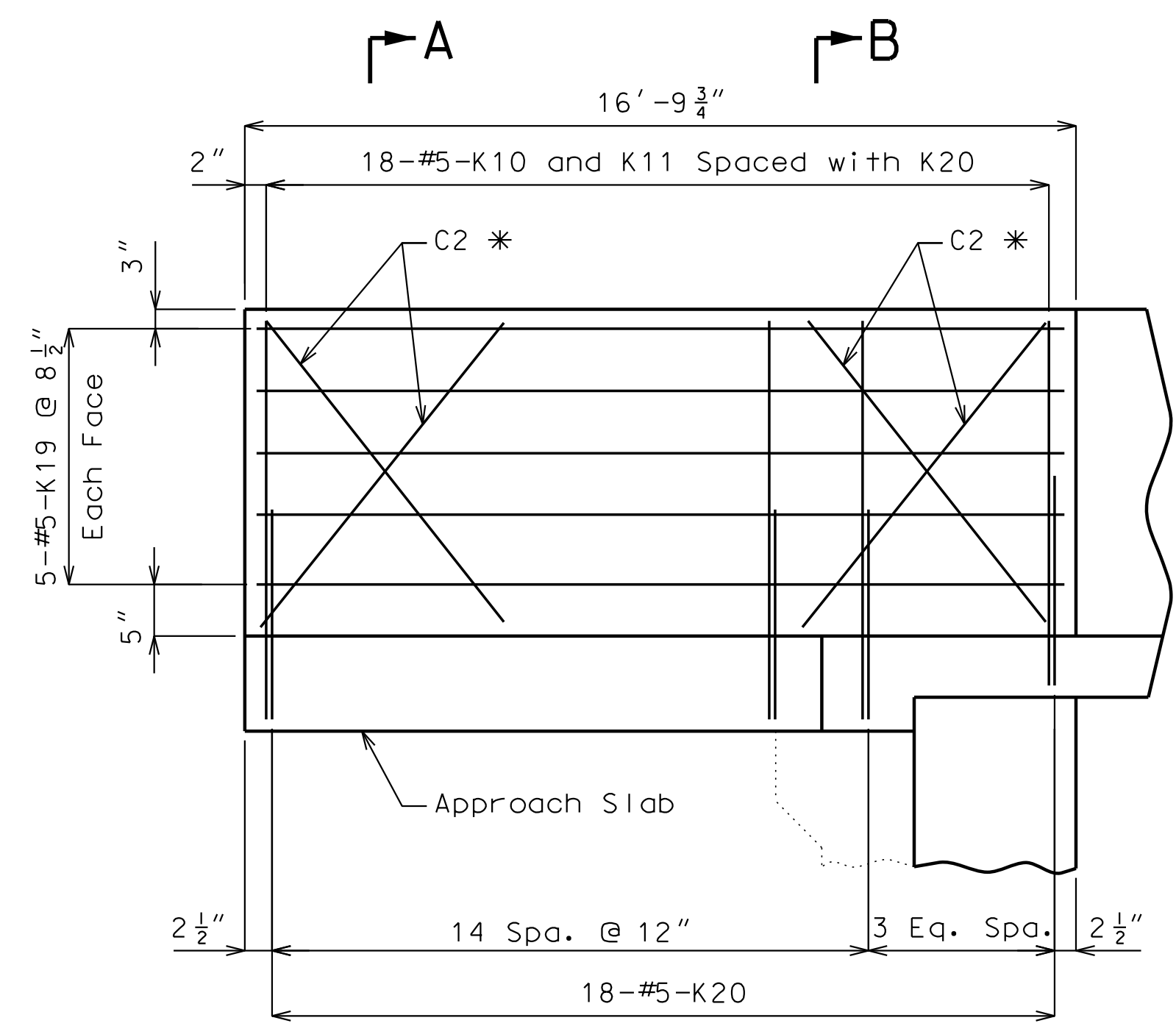
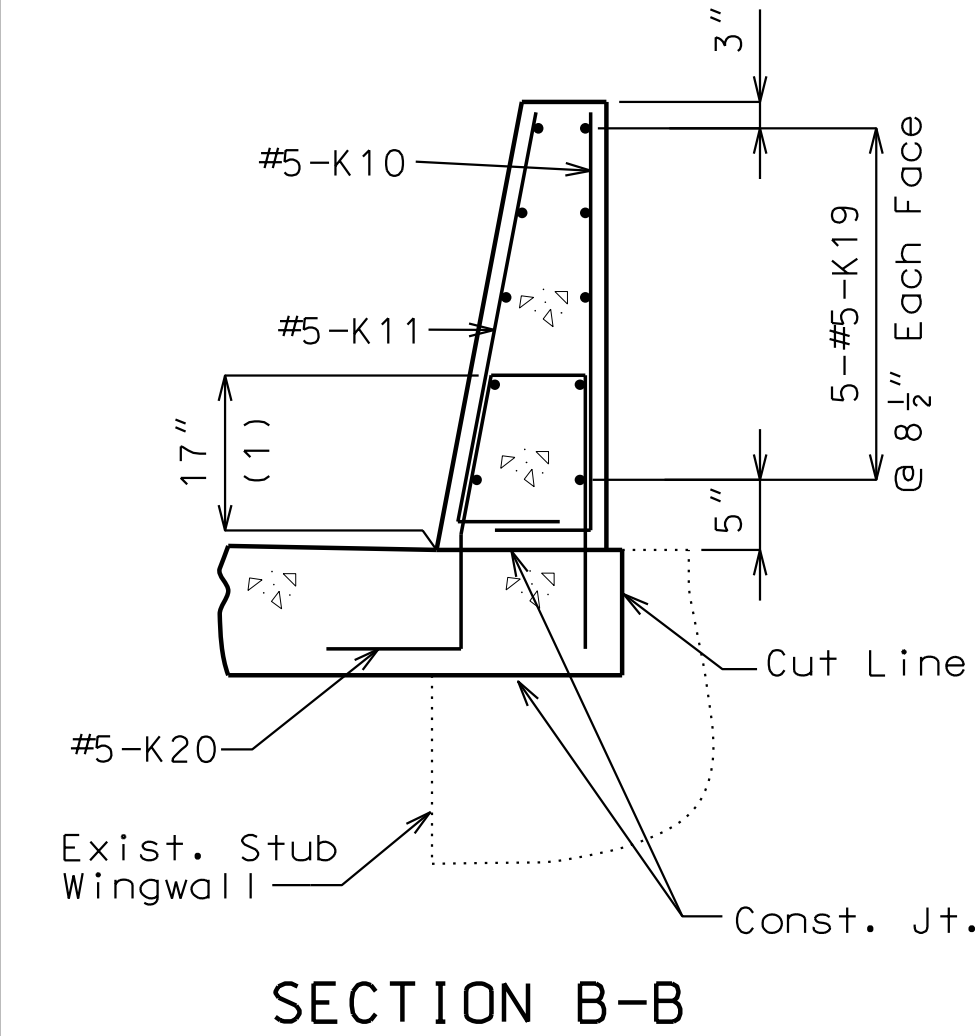
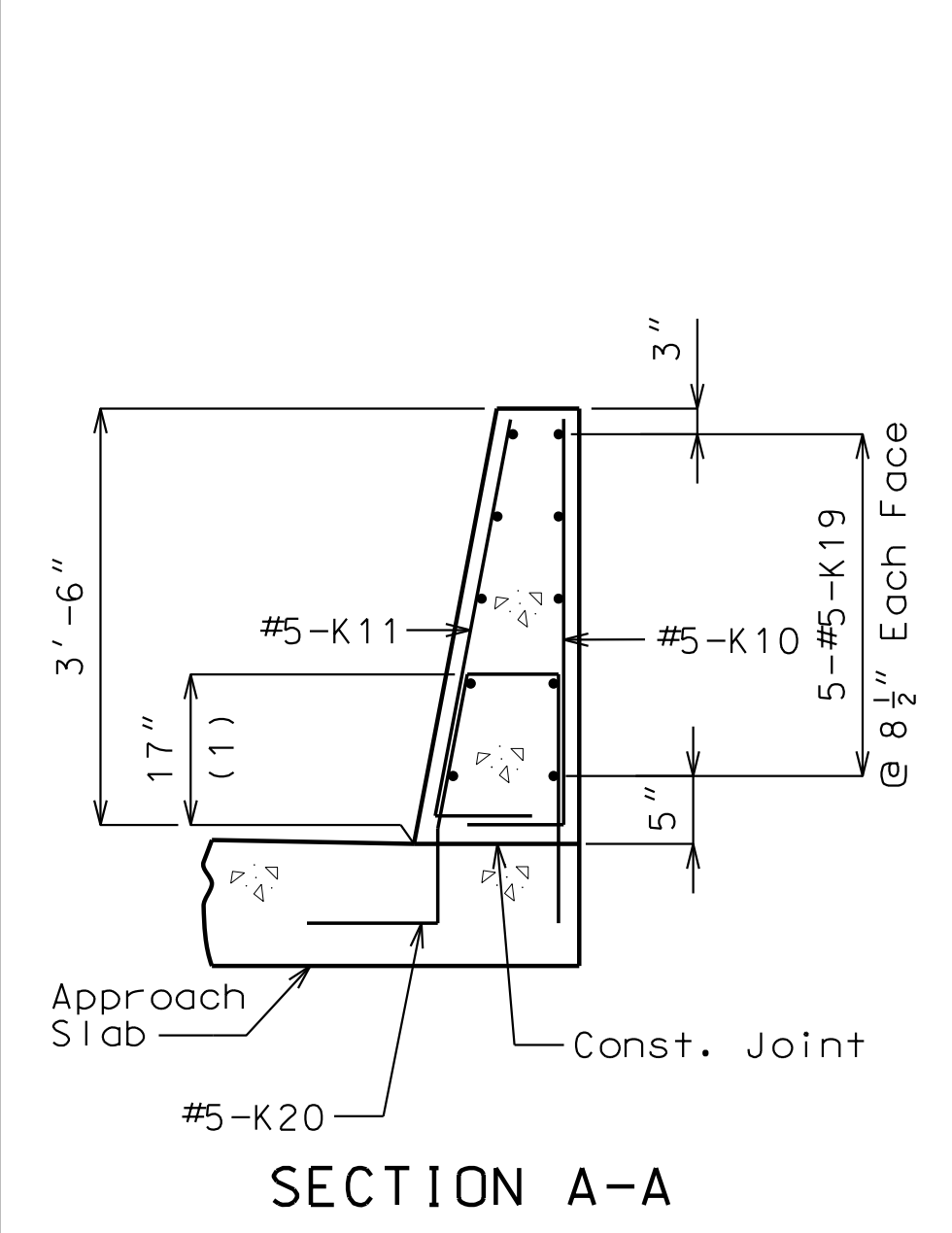
DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION



* Slip-formed option only

Two Layers of 50# Roofing Felt (Between Barrier Curb and Top of Backwall)

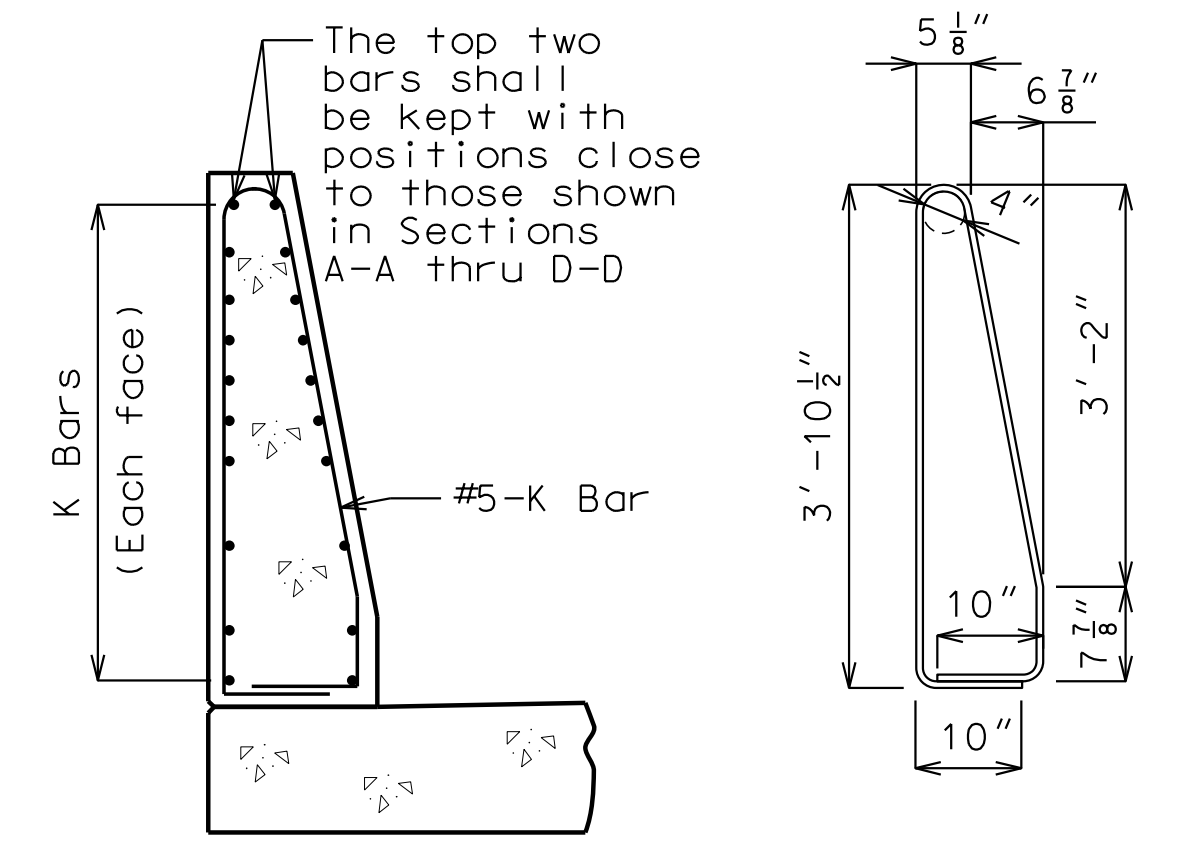
(1) To Top of Bar

General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

TYPE D BARRIER AT END BENTS - RIGHT CURB



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 16-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 25

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10575

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

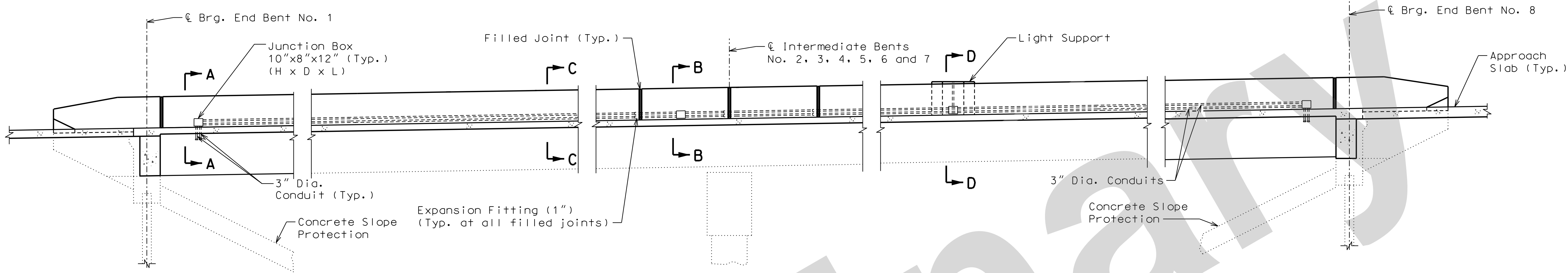
105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

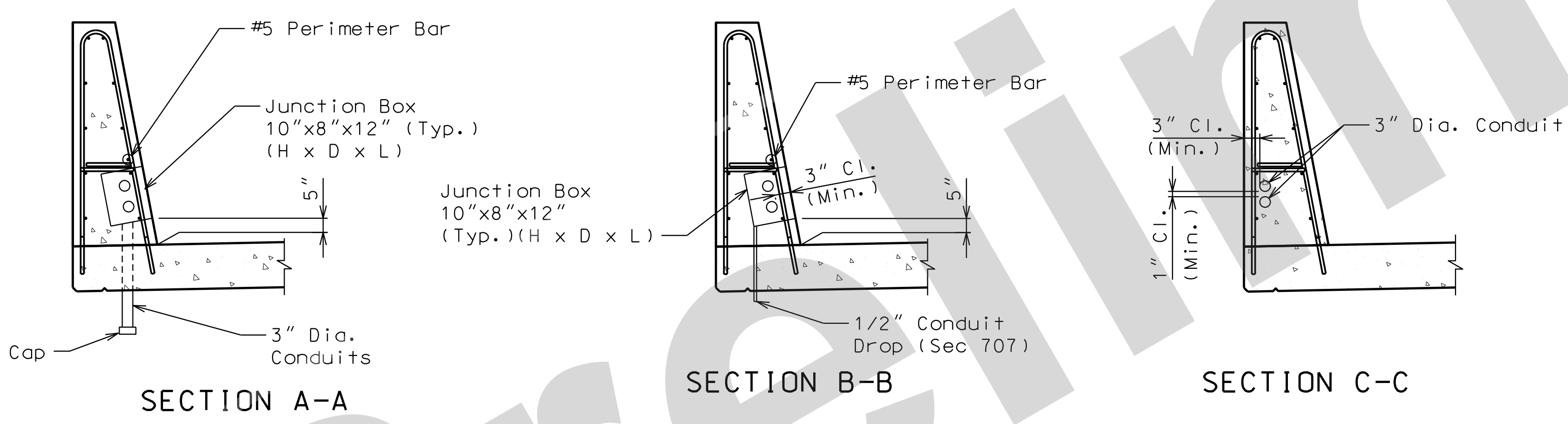
JACOBS

JACOBS CONSULTING GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704



PART SECTION OF LEFT BARRIER CURB SHOWING LOCATION OF CONDUIT



(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

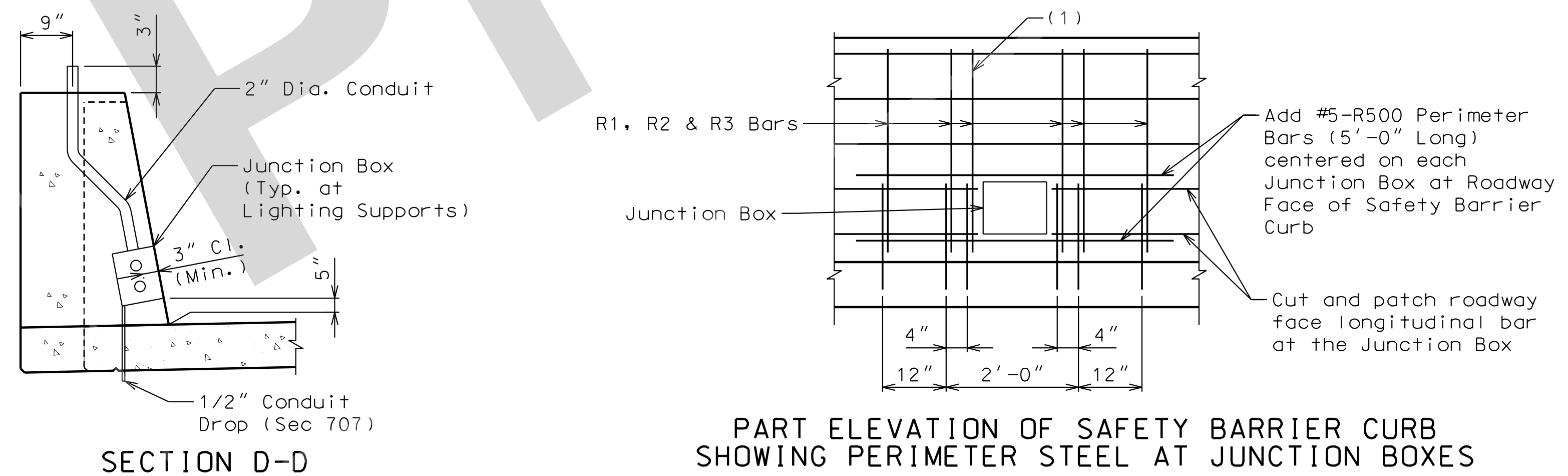
Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements.



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

DETAILS OF CONDUIT SYSTEM

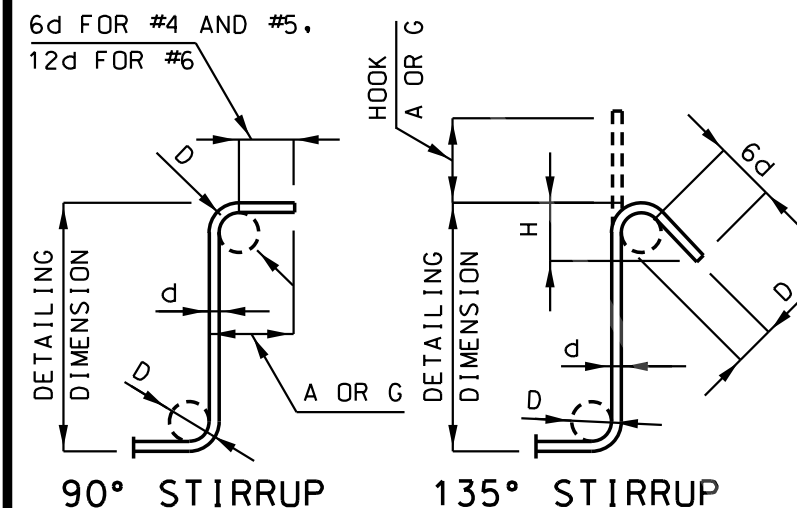
Detailed July 2021
Checked July 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 25 of 28

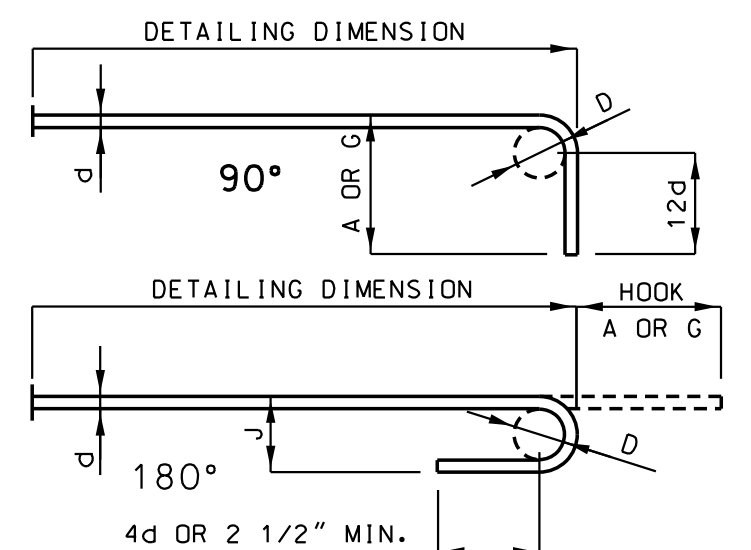
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	SHAPE NO.	EPOXY (E)	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS										NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT					
								B	C	D	E	F	H	K	FT.	IN.	FT.				IN.				
		END BENT NO. 1																							
4	6 H100	DIAPHRAGM	E 20					2	5.000								2	5	2	5	15				
4	6 H101	DIAPHRAGM	E 20					5	7.000								5	7	5	7	34				
20	6 H102	DIAPHRAGM	E 20					7	7.000								7	7	7	7	228				
4	6 H103	DIAPHRAGM	E 14					3	3.000	3	3.000				1	7.000	2	10.000	6	6	6	6	39		
63	5 H104	DIAPHRAGM	E 20					2	6.000								2	6	2	6	164				
4	6 H105	DIAPHRAGM	E 20					7	0.000								7	0	7	0	42				
4	6 H106	DIAPHRAGM	E 20					2	10.000								2	10	2	10	17				
36	6 H107	DIAPHRAGM	E 20					6	9.000								6	9	6	9	365				
4	6 H108	DIAPHRAGM	E 20					52	0.000								52	0	52	0	312				
1	6 H109	DIAPHRAGM	E 20					50	8.000								50	8	50	8	76				
4	6 H110	DIAPHRAGM	E 14					13	8.500	3	3.875				1	7.000	2	11.000	17	0	17	0	102		
1	6 H111	DIAPHRAGM	E 14					13	8.500	3	3.875				1	7.000	2	11.000	17	0	17	0	26		
64	5 U100	DIAPHRAGM	E 11					2	1.000	2	10.000	1	4.000				6	3	6	0	401				
51	5 U101	DIAPHRAGM	E 19					2	10.000	1	4.000						4	2	4	0	213				
17	5 U102	DIAPHRAGM	E 19					2	10.000	1	4.000						4	2	4	0	71				
		U103 NOT USED																							
4	6 U104	DIAPHRAGM	E 10					2	5.000	1	3.000						6	1	5	9	35				
4	6 U105	DIAPHRAGM	E 21					1	3.000	2	10.000	2	10.000				1	1.250	0	7.000	6	11	6	6	39
		END BENT NO. 8																							
4	6 H800	DIAPHRAGM	E 20					2	5.000								2	5	2	5	15				
4	6 H801	DIAPHRAGM	E 20					5	7.000								5	7	5	7	34				
20	6 H802	DIAPHRAGM	E 20					7	7.000								7	7	7	7	228				
8	6 H803	DIAPHRAGM	E 20					6	1.000								6	1	6	1	73				
4	6 H804	DIAPHRAGM	E 20					2	6.000								2	6	2	6	15				
36	6 H805	DIAPHRAGM	E 20					6	9.000								6	9	6	9	365				
63	5 H806	DIAPHRAGM	E 20					2	6.000								2	6	2	6	164				
10	6 H807	DIAPHRAGM	E 20					33	9.000								33	9	33	9	507				
64	5 U800	DIAPHRAGM	E 11					2	1.000	2	10.000	1	4.000				6	3	6	0	401				
68	5 U801	DIAPHRAGM	E 19					2	10.000	1	4.000						4	2	4	0	284				
		U802 NOT USED																							
8	6 U803	DIAPHRAGM	E 10					2	5.000	1	3.000						6	1	5	9	69				



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		HOOK A OR G	HOOK A OR G	HOOK A OR G	APPROX. H
#4	2"	4 1/2"	4 1/2"	3"	
#5	2 1/2"	6"	5 1/2"	3 3/4"	
#6	4 1/2"	12"	8"	4 1/2"	

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.

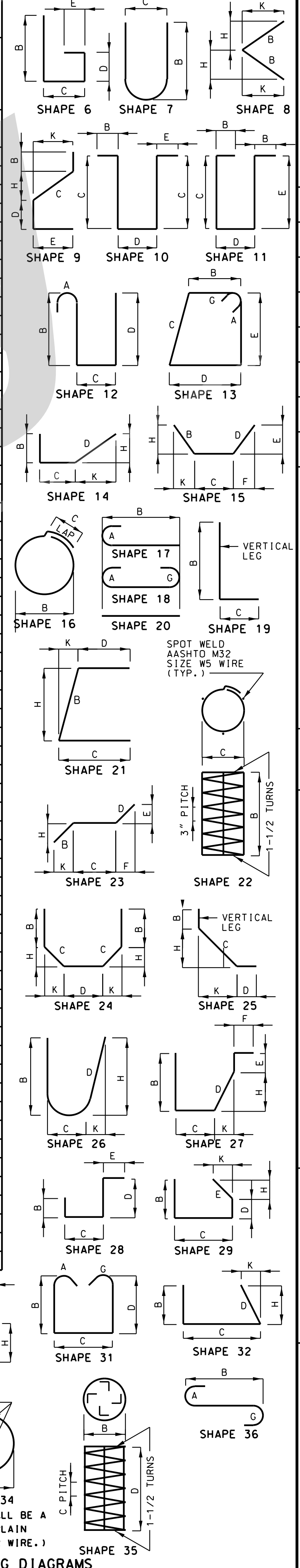


BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	A OR G
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	12"	
#7	5 1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9 1/2"	15"	11 3/4"	19"	
#10	10 3/4"	17"	13 1/4"	22"	
#11	12"	19"	14 3/4"	2'-0"	
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	

NOTE:
 ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 E = EPOXY COATED REINFORCEMENT.
 S = STIRRUP.
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
 FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	SHAPE NO.	EPOXY (E)	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS										NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
								B	C	D	E	F	H	K	FT.	IN.	FT.				IN.
		TOTALS																			
4			E																		7356
5			E																		139944
6			E																		207605
		TOTAL																			354905
		SLAB ON GIRDER																			
4			E																		7356
5			E																		110623
6			E																		207534
		TOTAL																			325513
		SAFETY BARRIER CURB																			
5			E																		28153
6			E																		71
		TOTAL																			282224
		SLIP-FORM OPTION																			
5			E																		1168
		TOTAL																			1168



RODNEY D. RILEY
 LICENSED PROFESSIONAL ENGINEER
 MISSOURI
 E-26267

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 16-AUG-2021

ROUTE: I-55 STATE: MO

DISTRICT: BR SHEET NO.: 28

COUNTY: ST. LOUIS

JOB NO.: J613187

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A10575

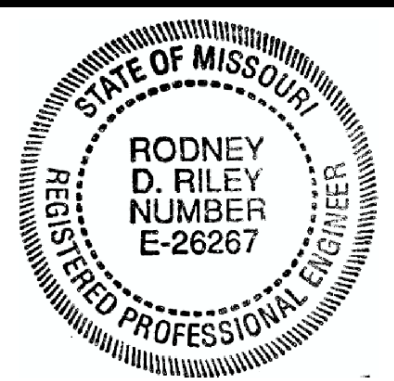
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

U.I.P. AND REHABILITATE EXISTING (49'-67'-49') CONTINUOUS CONCRETE VOIDED SLAB SPANS (SKEW 47°15'00" R.A.)



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 1

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10752

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

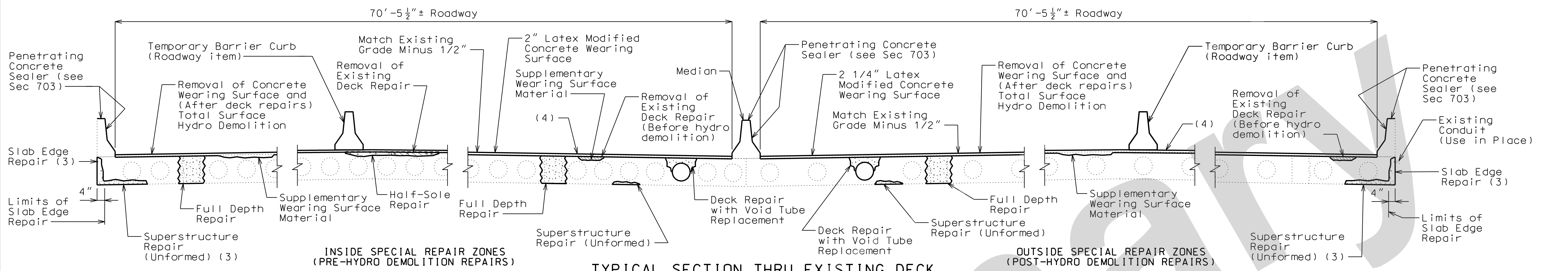
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

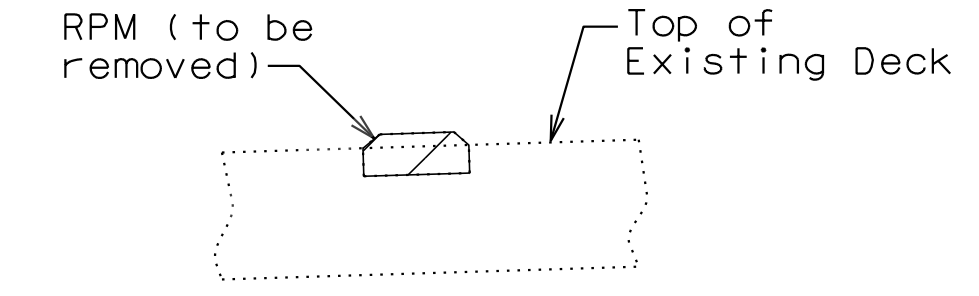
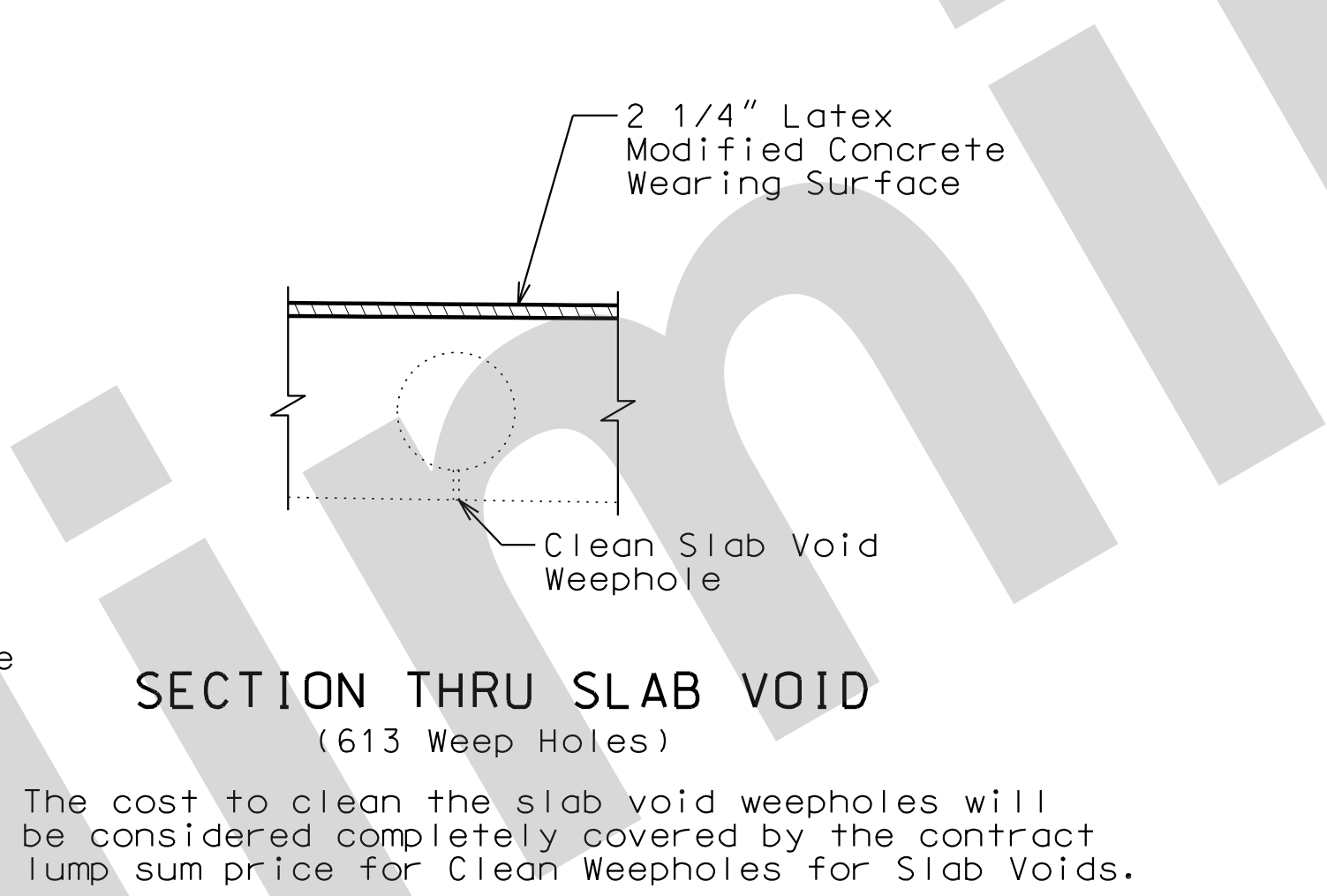
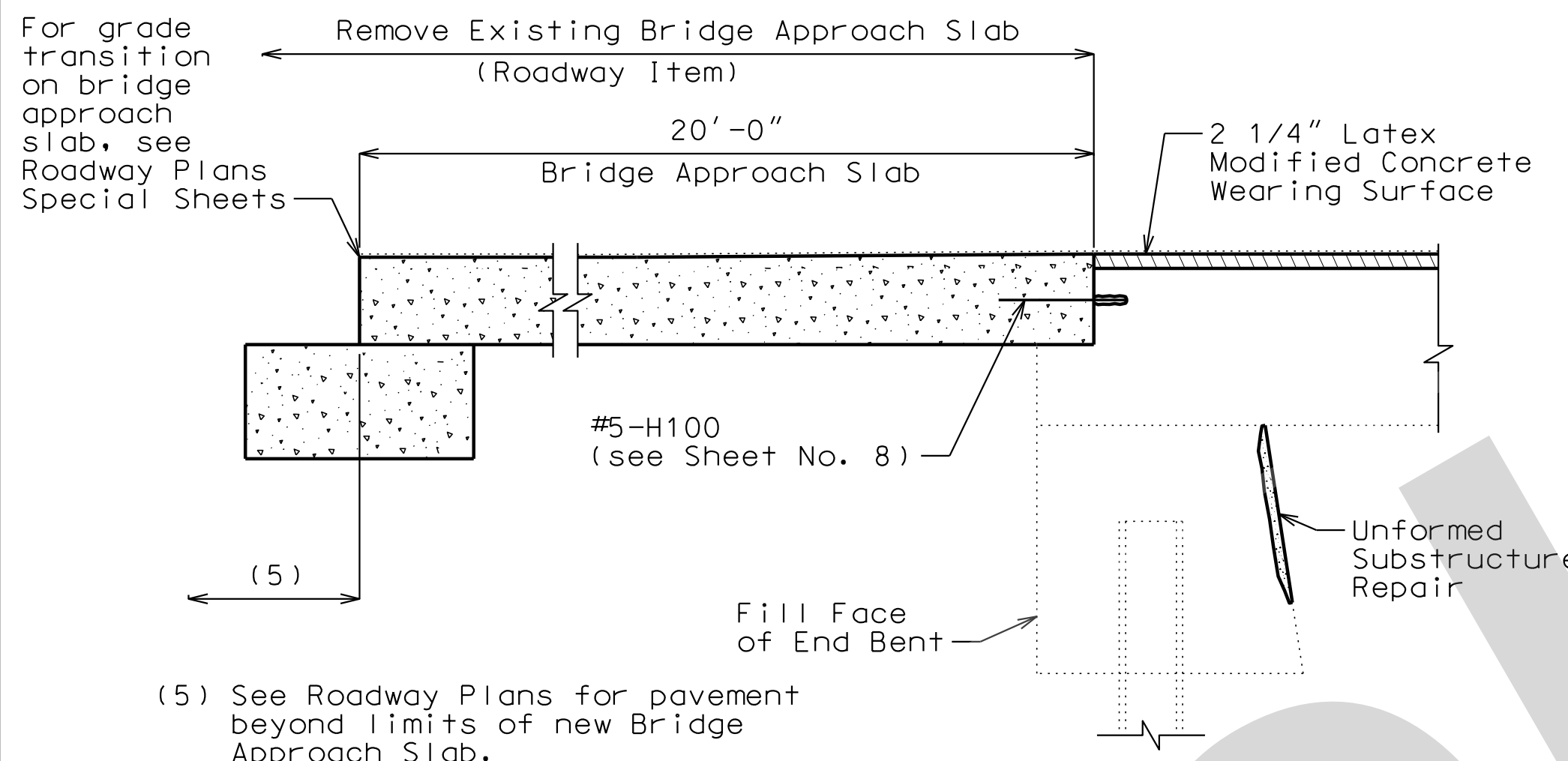
JACOBS ENGINEERING GROUP ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704



(3) Match existing concrete color. Apply tinted sealer to blend repair to existing concrete.

(4) Removal of Raised Pavement Markers (RPM) included in the cost of Removal of Concrete Wearing Surface.



Estimated Quantities		
Item		Total
Total Surface Hydro Demolition	sq. yard	2676
Removal of Concrete Wearing Surface	sq. foot	24083
Removal of Existing Deck Repair	sq. foot	1200
(2) Removal of Cathodic Protection System	lump sum	1
Removal of Wing	lump sum	1
Bridge Approach Slab (Major)	sq. yard	647
(1) Supplementary Wearing Surface Material	cu. yard	40
Latex Modified Concrete Wearing Surface	sq. yard	2676
(2) Diamond Grinding	sq. yard	2676
Penetrating Concrete Sealer	sq. yard	285
Class B-2 Concrete	cu. yard	10.3
Type B Barrier	linear foot	17
Type A Barrier	linear foot	40
Substructure Repair (Unformed)	sq. foot	250
Superstructure Repair (Unformed)	sq. foot	2000
Half-Sole Repair	sq. foot	1850
Full Depth Repair	sq. foot	950
Slab Edge Repair (Bridges)	linear foot	10
Deck Repair with Void Tube Replacement	sq. foot	2000
Clean Weepholes for Slab Voids	lump sum	1
Clean Slab Drains	lump sum	1
Curb Repair (Formed)	linear foot	40
Reinforcing Steel (Epoxy Coated)	pound	1350
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1

(1) Supplementary wearing surface material will be paid for at the fixed unit price in accordance with Sec 109.
 (2) See Special Provisions.

General Notes:

Design Specifications:
 2002 AASTHO LFD (17th Ed.) Standard Specifications
 Bridge Deck Rating = 5

Design Loading:
 HS20-44 Modified (1961) and HS20-44 - (1961) Modified - No FWS (1983)

Design Unit Stresses:
 Class B-1 Concrete (Barrier, Half-Sole and Full Depth Repair) $f'c = 4,000$ psi
 Class B-2 Concrete (Wingwall and Approach Notch) $f'c = 4,000$ psi
 Reinforcing Steel (Grade 60) $fy = 60,000$ psi

Joint Filler:
 All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless noted otherwise.

MBS refers to mechanical bar splices. Mechanical bar splicers shall be in accordance with Sec 706 or 710, except that no measurement will be made for mechanical bar splices and they will be considered completely covered by the contract unit price for other items.

Miscellaneous:
 All concrete repairs shall be in accordance with Sec 704, unless otherwise noted.

Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.
 Contractor shall verify all dimensions in field before ordering new material.

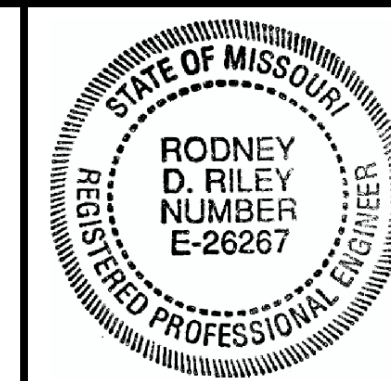
In order to maintain grade and a minimum thickness of wearing surface as shown on plans it may be necessary to use additional quantities of wearing surface at various locations throughout the structure. The cost of furnishing and installing the wearing surface will be considered completely covered in the contract unit price, including all additional labor, materials or equipment for variations in thickness of wearing surface.

Traffic Handling:
 Traffic to be maintained on structure during construction.
 See roadway plans for traffic control.

REPAIRS TO BRIDGE: ROUTE I-55 OVER KOELN AVE

ROUTE I-55 FROM I-270 TO I-44
 ABOUT 5.5 MILES NORTH OF ROUTE I-270
 BEGINNING STATION NB 479+8.96 +/- (Match Existing)
 BEGINNING STATION SB 478+71.98 +/- (Match Existing)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 3

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10752

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

ModOT

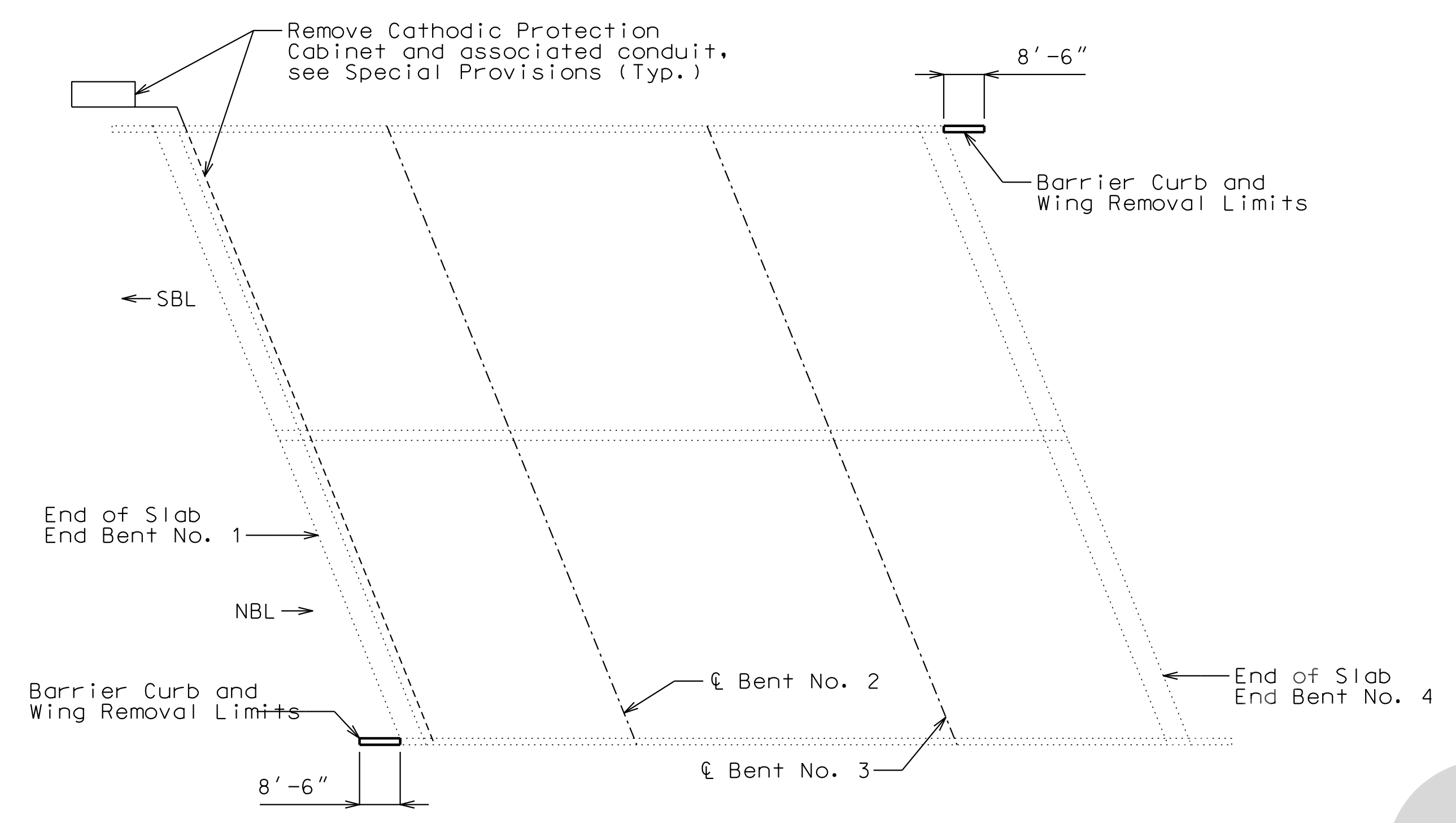
JACOBS

JACOBS CONSULTING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

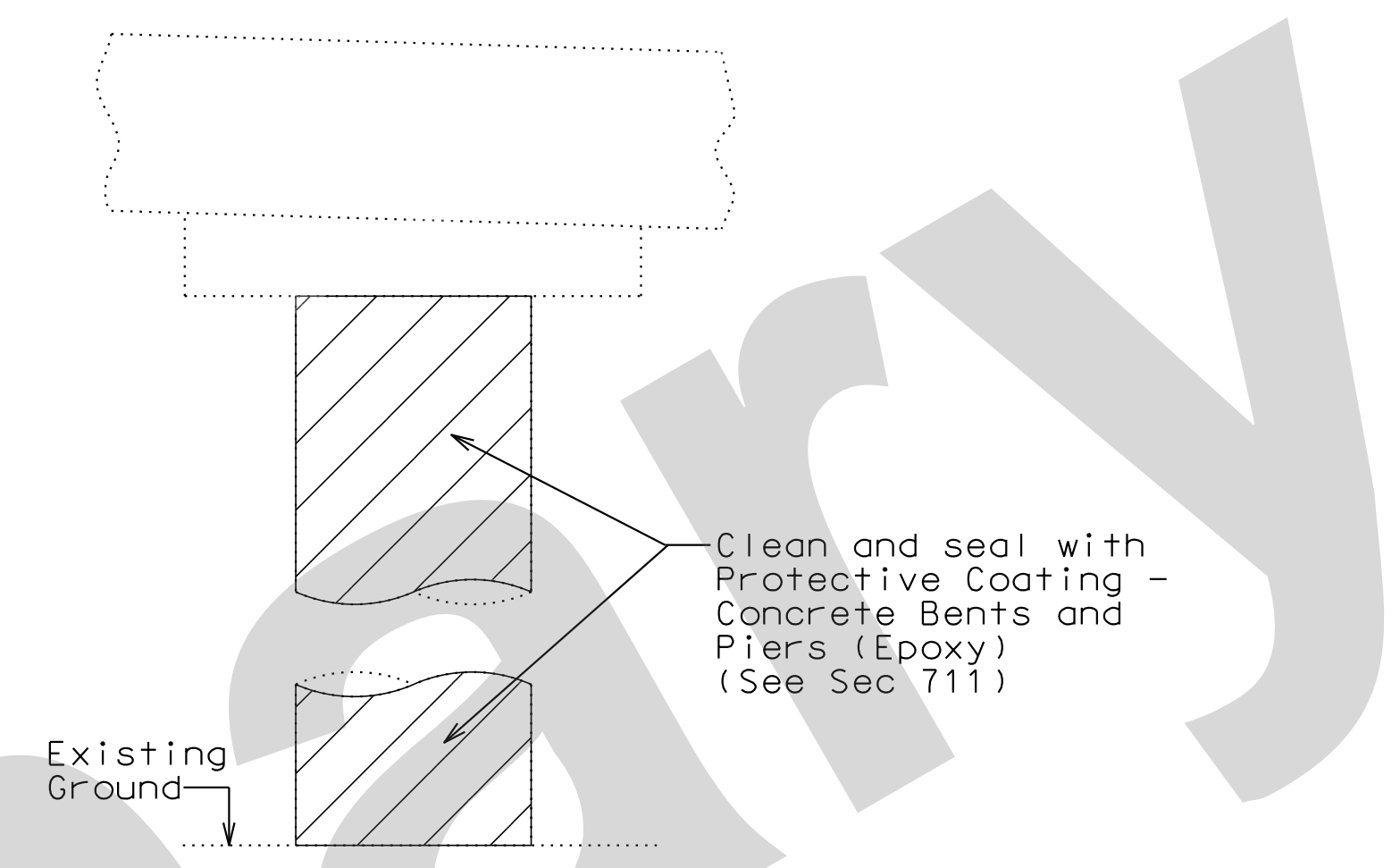
CERTIFICATE OF AUTHORITY #00704

REV.

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

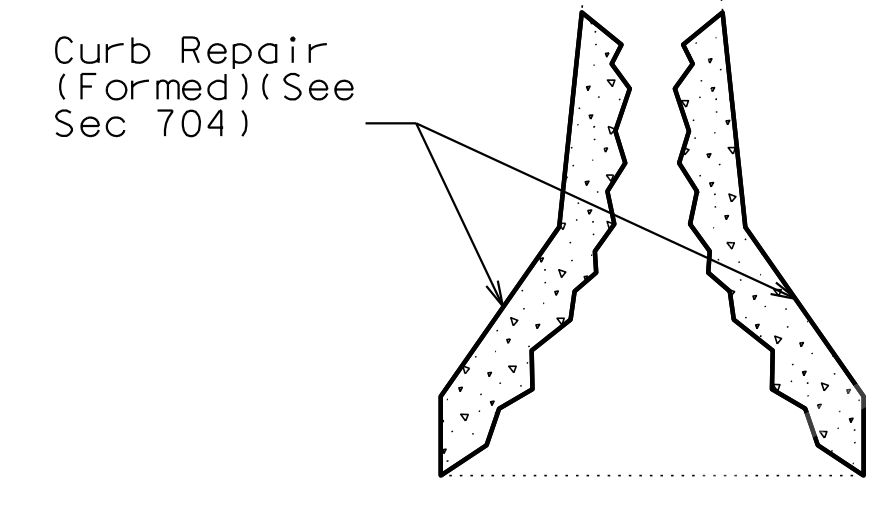


PLAN

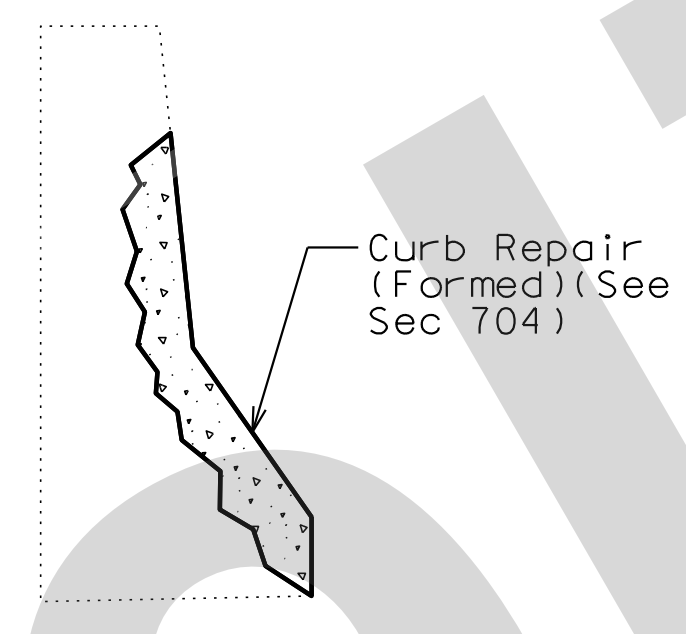


TYPICAL SECTION THRU INT. BENTS SHOWING PROTECTIVE COATING

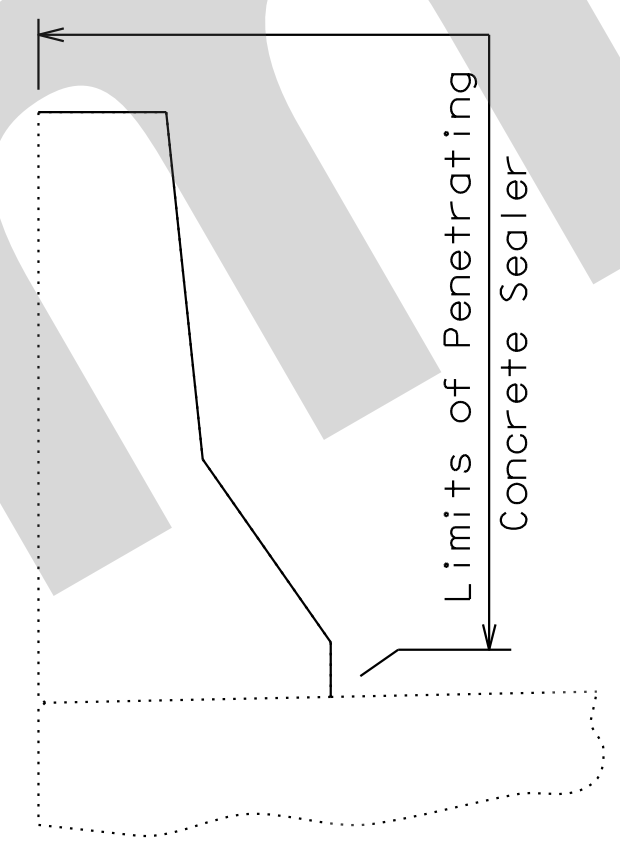
(Applies to Int. Bents No. 2 & 3)



Curb Repair (Formed) (See Sec 704)

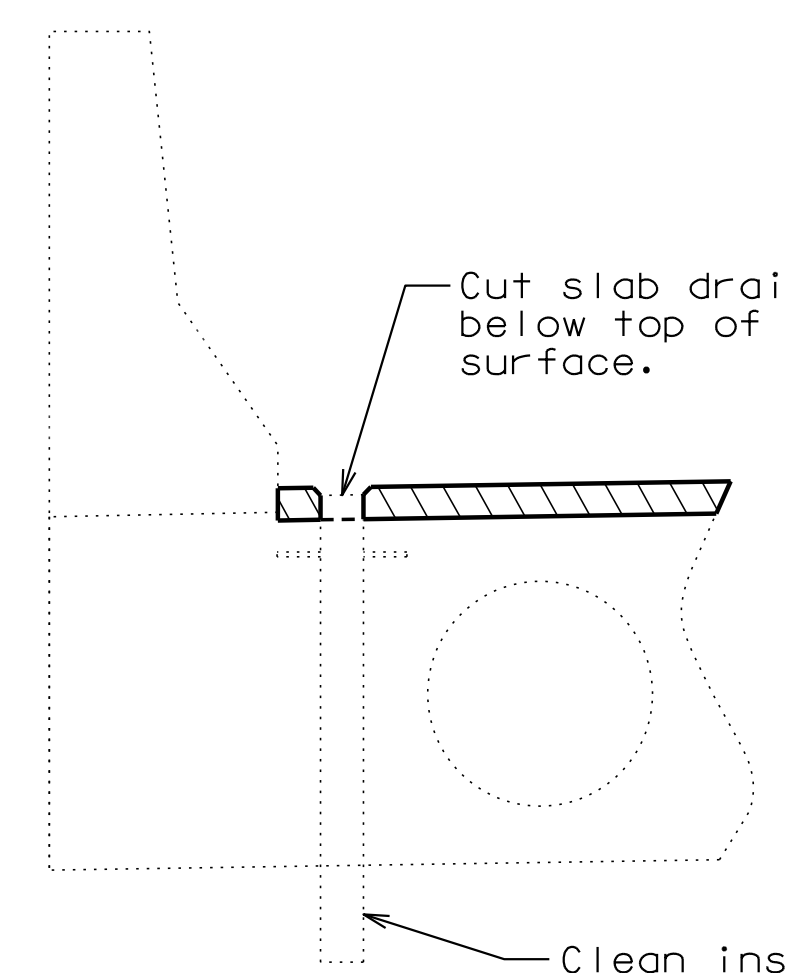


Curb Repair (Formed) (See Sec 704)



DETAIL SHOWING PENETRATING CONCRETE SEALER

(Full length of all barrier curbs, see Sec 703)



EXISTING SLAB DRAINS

(Quantity = 30 drains)

Notes:

For wing replacement details, see Sheet No. 4.

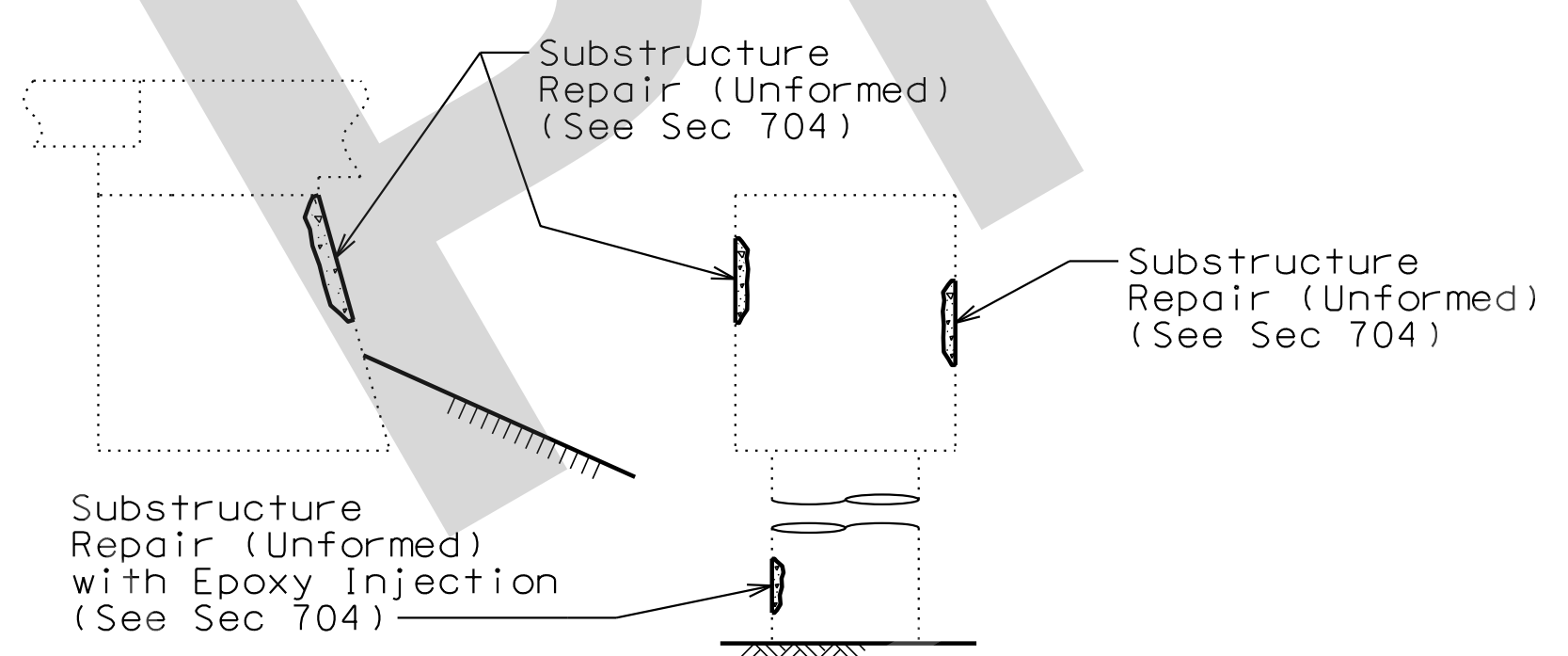
For Type B Barrier at End Bents details, see Sheet No. 6.

For Median Barrier (Type A) at End Bents detail, see Sheet No. 7.

The cost to perform Substructure Repair (Unformed), including Epoxy Injection (Estimated 25-ft at Bent 1 Columns 1 and 2 and 10-ft at Bent 2, Column 5), will be considered completely covered by the contract unit price for Substructure Repair (Unformed).

The cost to cut the top of the slab drains and to clean the inside of the slab drains will be considered completely covered by the contract lump sum price for Clean Slab Drains.

MEDIAN AND BARRIER REPAIR DETAIL



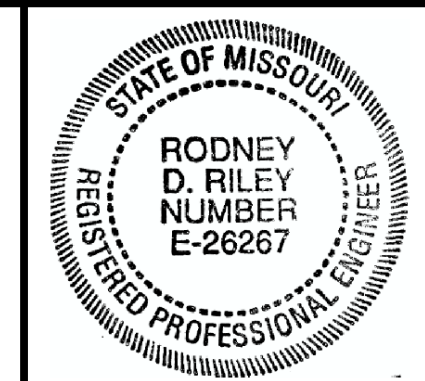
TYPICAL SECTION SHOWING UNFORMED SUBSTRUCTURE REPAIR

REHAB DETAILS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 3 of 9



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10752

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

ModOT

JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

General Notes:

The cost for wingwall and barrier removal will be considered completely covered by the contract lump sum price for Removal of Wing.
For plan view showing locations of wingwall replacement, see Sheet No. 3.

For details and reinforcing of Type B Barrier, see Sheet No. 6.
Concrete in the wingwall shall be Class B-2.

The cost to reconstruct the wingwall, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.

The cost for wingwall reinforcement will be considered completely covered by the contract unit price for Reinforcing Steel (Epoxy Coated).

The cost to grout the gap in the existing beam cap will be considered completely covered by the contract unit price for Class B-2 Concrete.

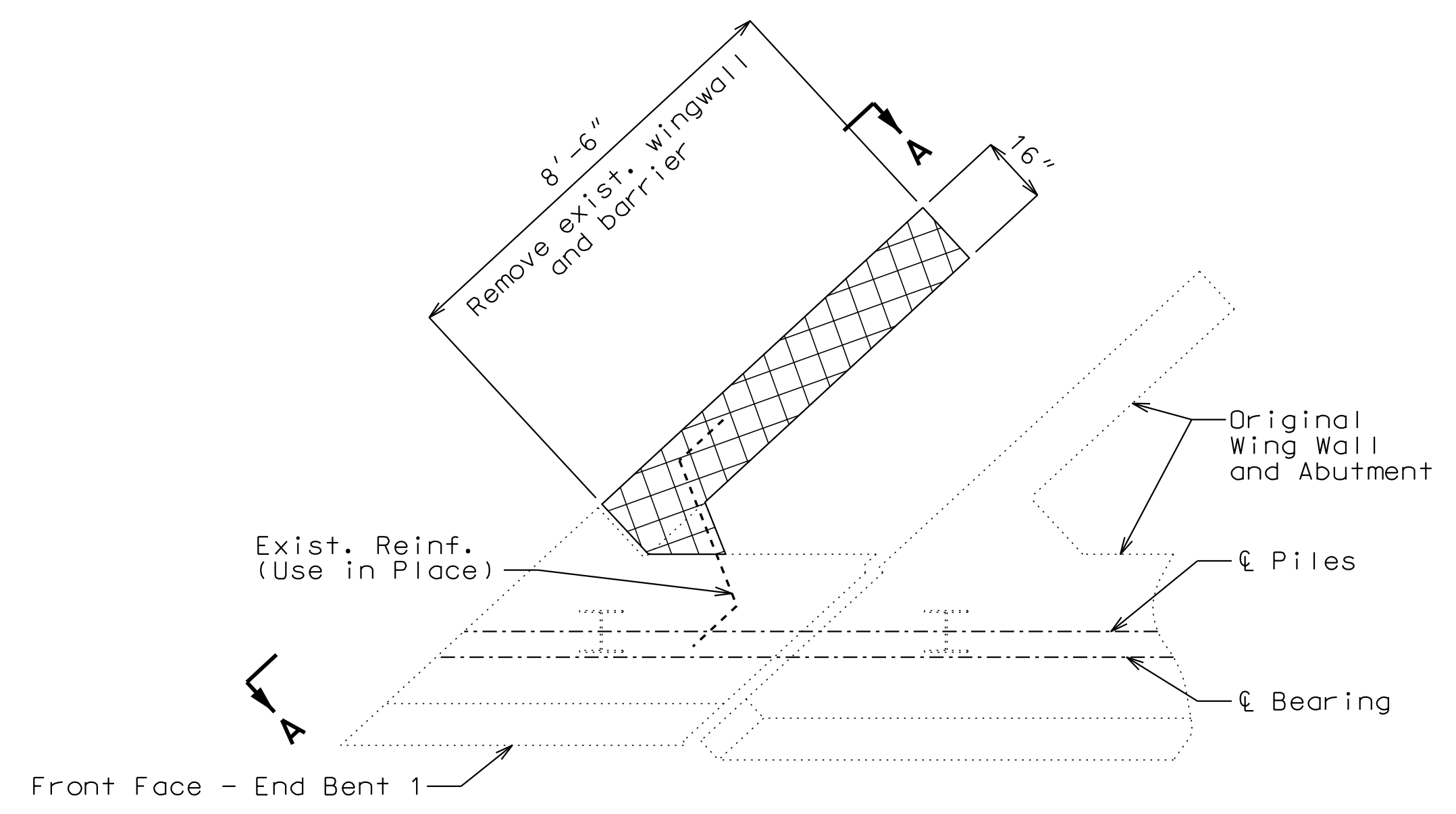
RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

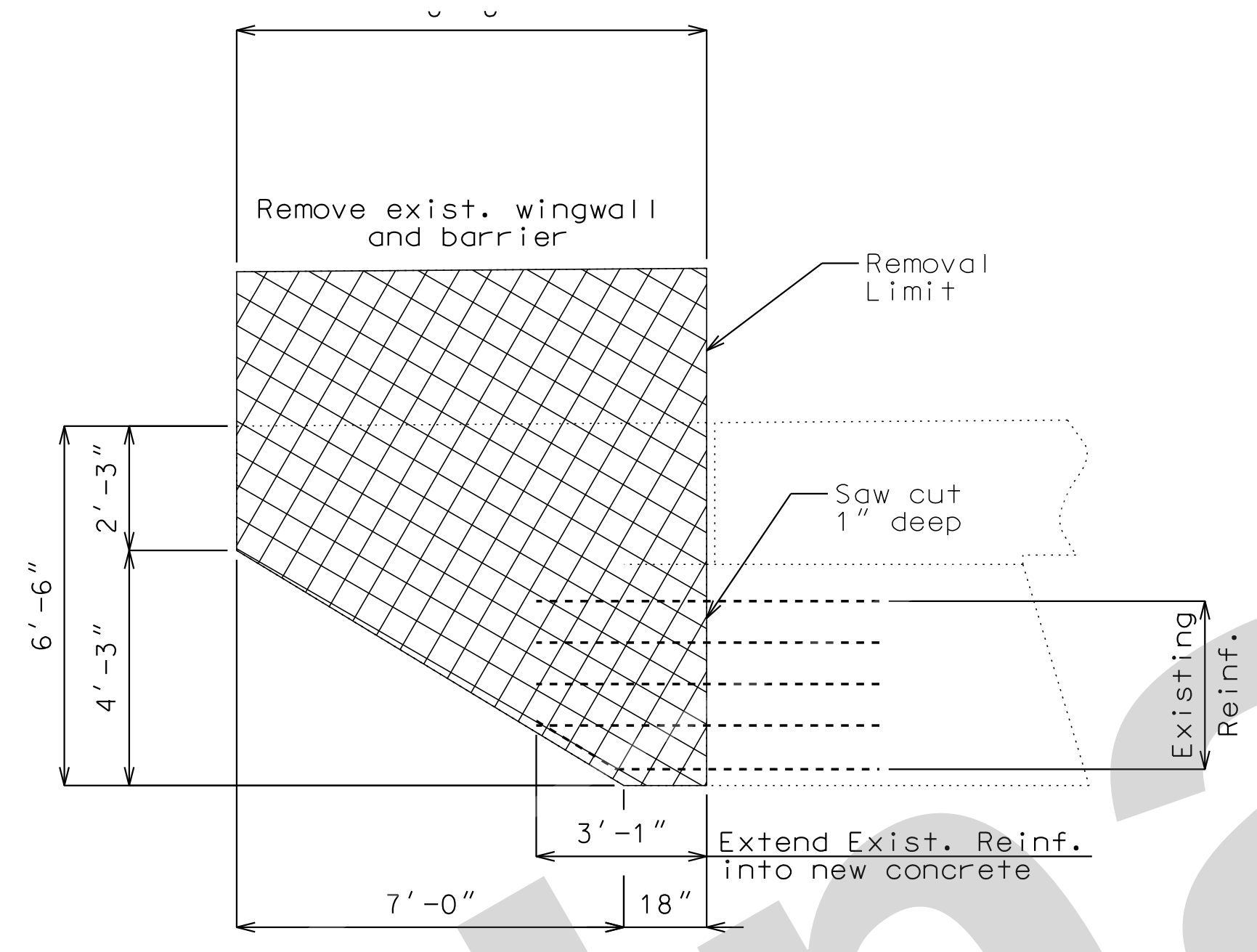
An epoxy coated #6 Grade 60 reinforcing bar shall be substituted for the threaded rod.

The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Class B-2 Concrete.

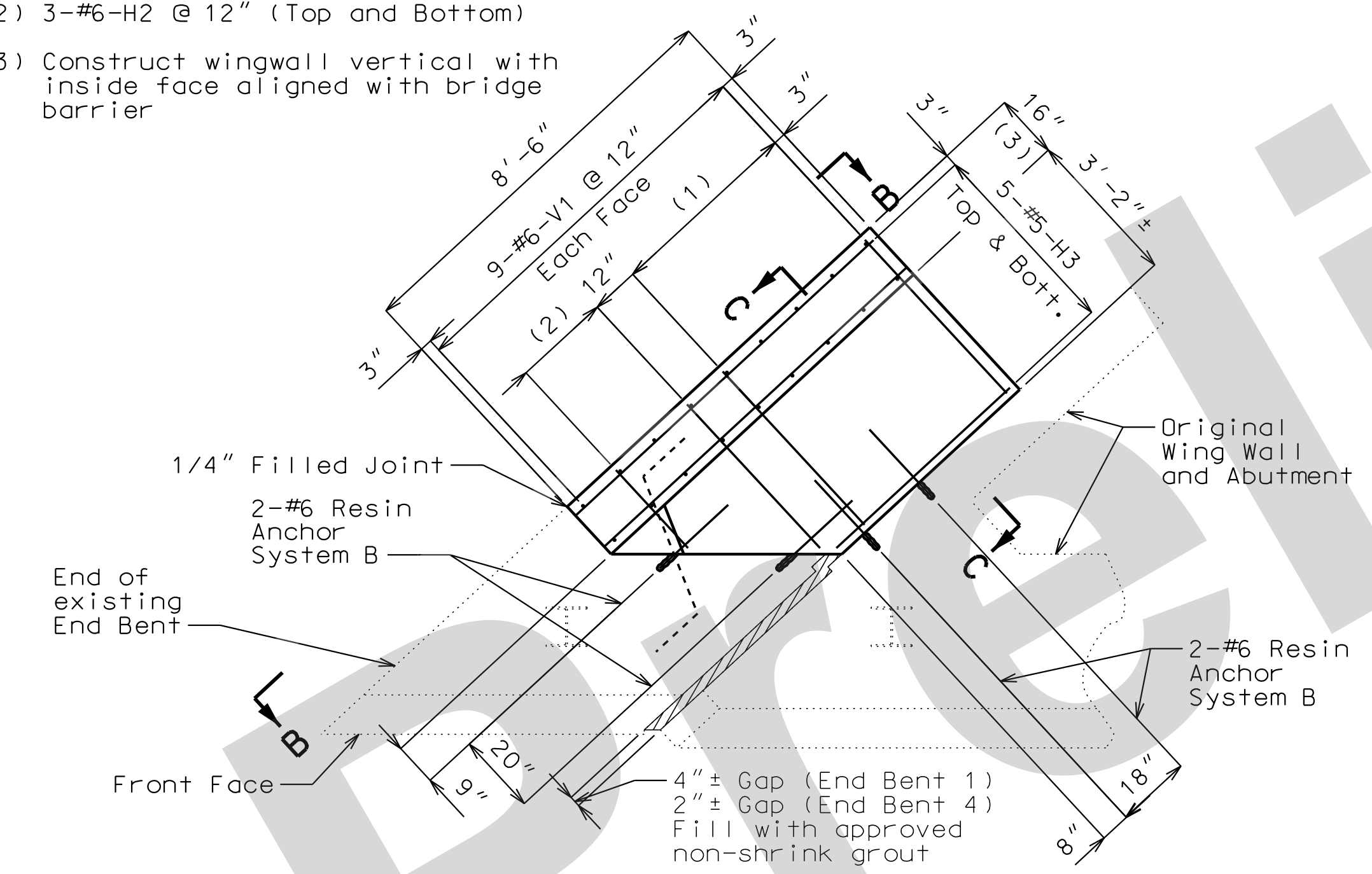


DEMOLITION PART PLAN - END BENT 1
(End Bent 1 shown, End Bent 4 similar)

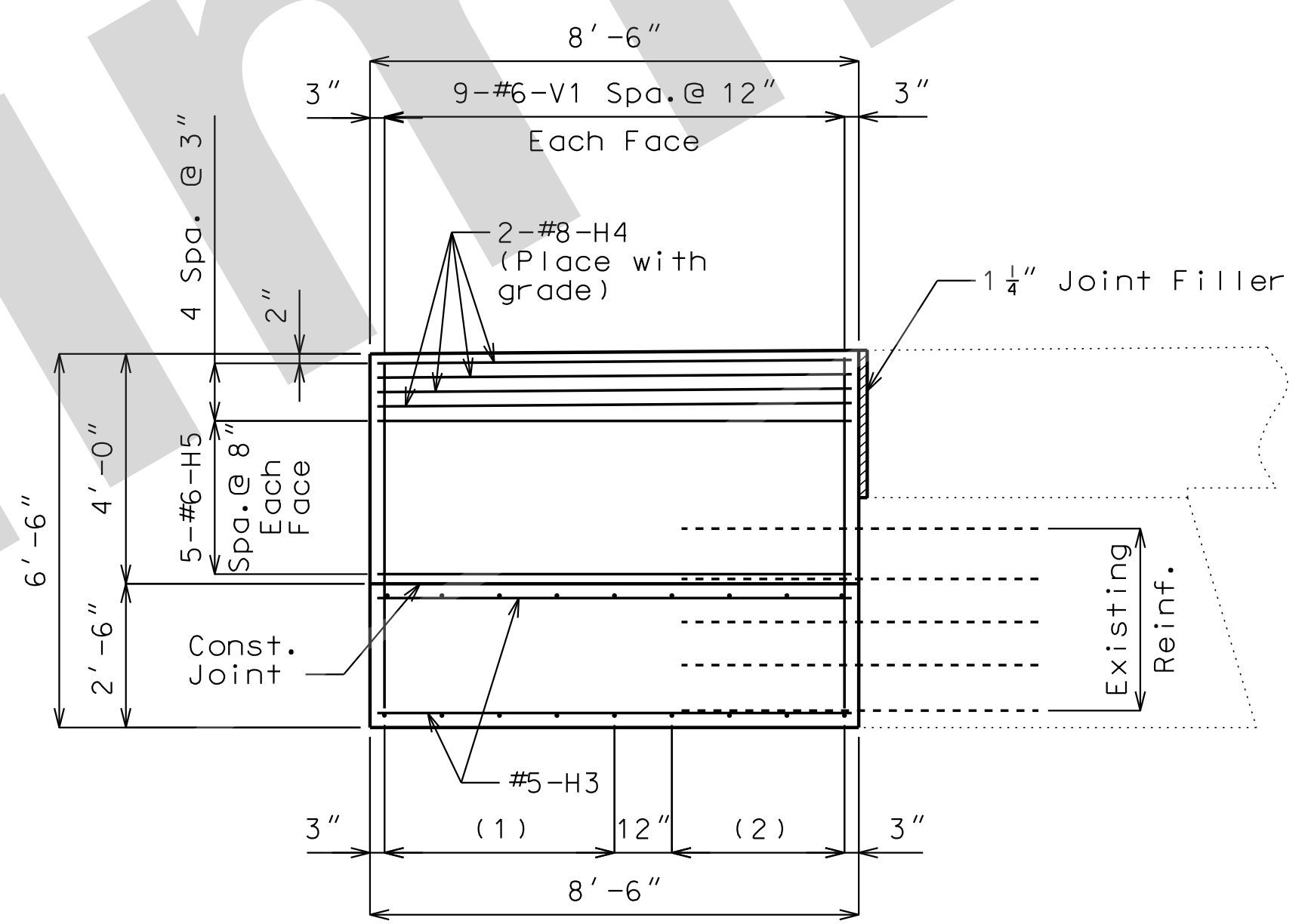
- (1) 5-#6-H1 @ 12" (Top and Bottom)
- (2) 3-#6-H2 @ 12" (Top and Bottom)
- (3) Construct wingwall vertical with inside face aligned with bridge barrier



ELEVATION A-A

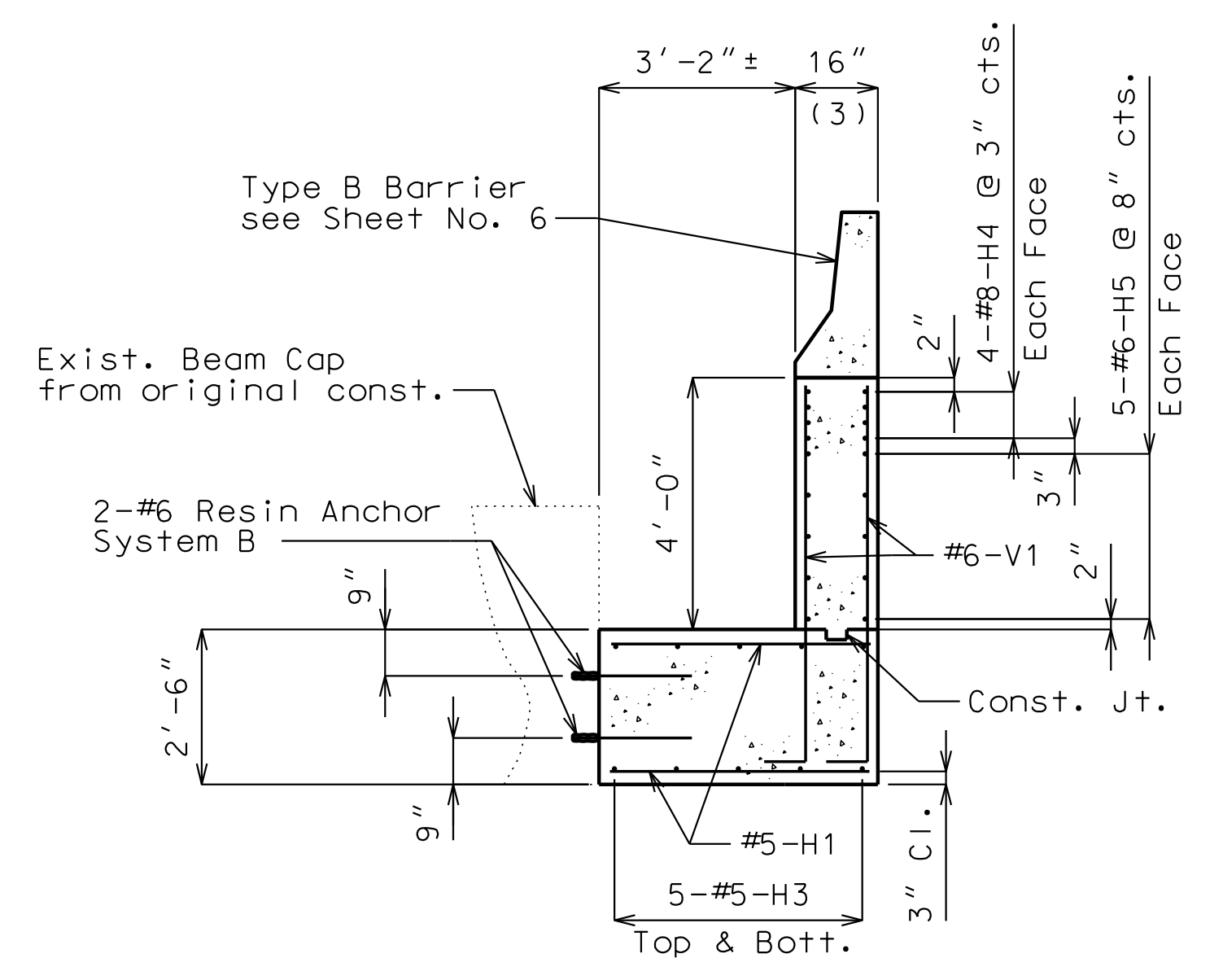


PART PLAN - END BENT 1
(End Bent 1 shown, End Bent 4 similar)



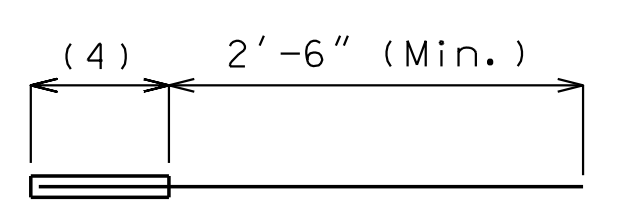
ELEVATION B-B

(Type B Barrier and barrier reinforcing not shown for clarity)



SECTION C-C

(Type B Barrier reinforcing not shown for clarity)



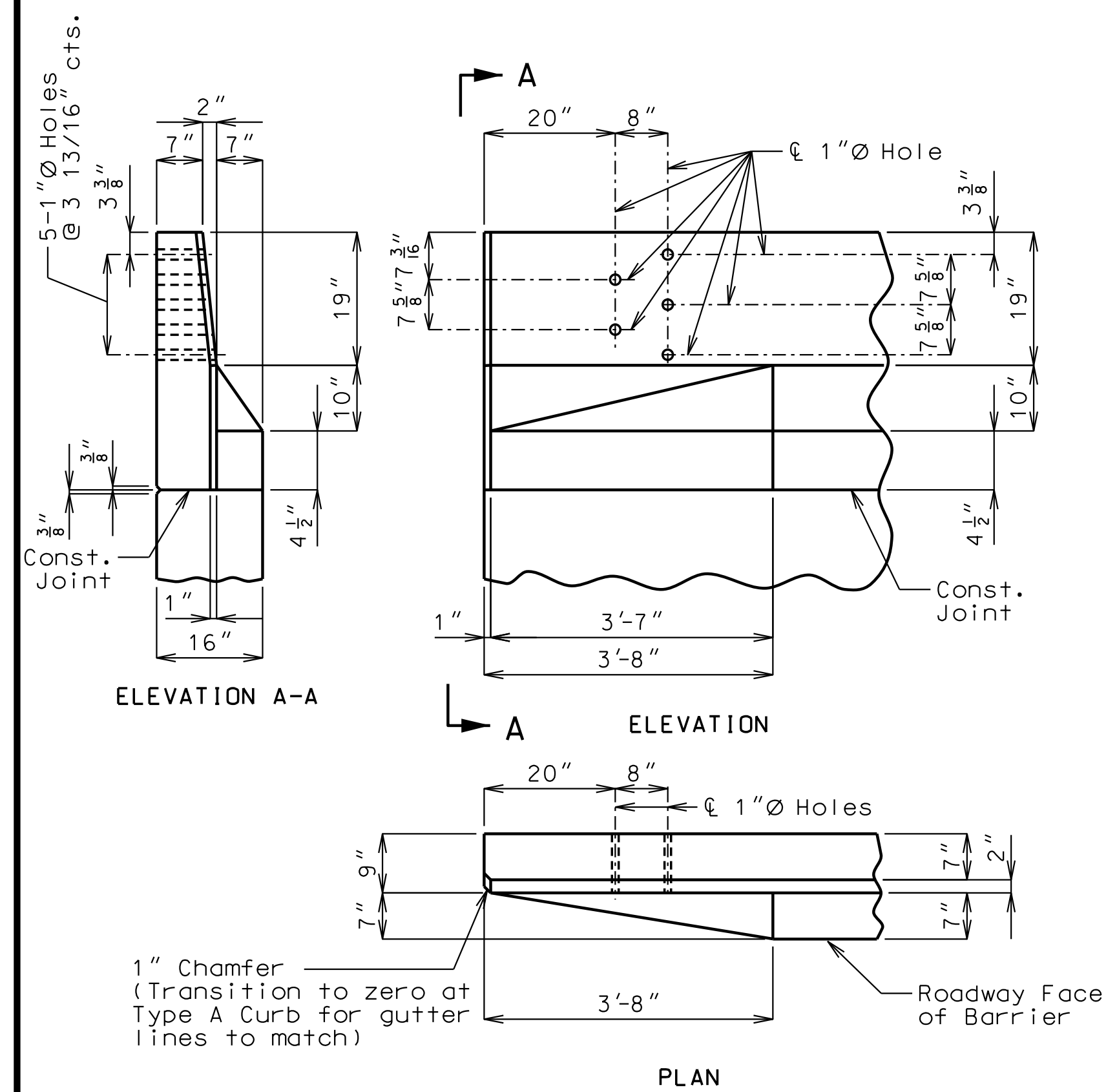
#6 RESIN ANCHOR SYSTEM B
8 Required per wingwall
(4) Manufacturer's recommended embedment length (5" Min.)

END BENT REHAB DETAILS

Detailed June 2021
Checked June 2021

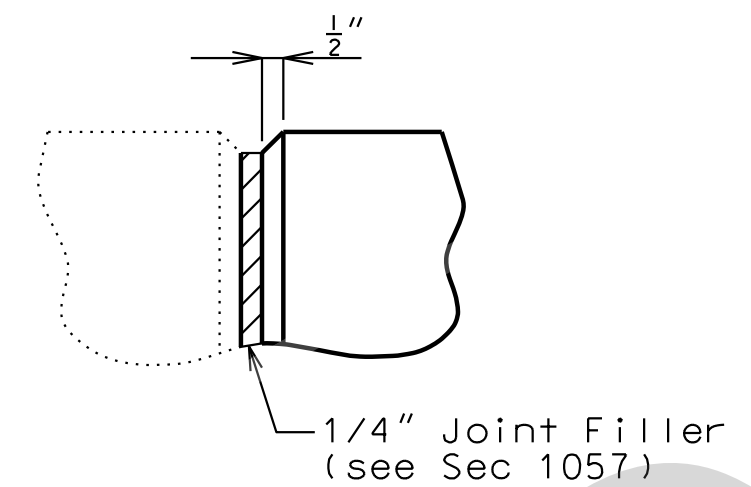
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 9

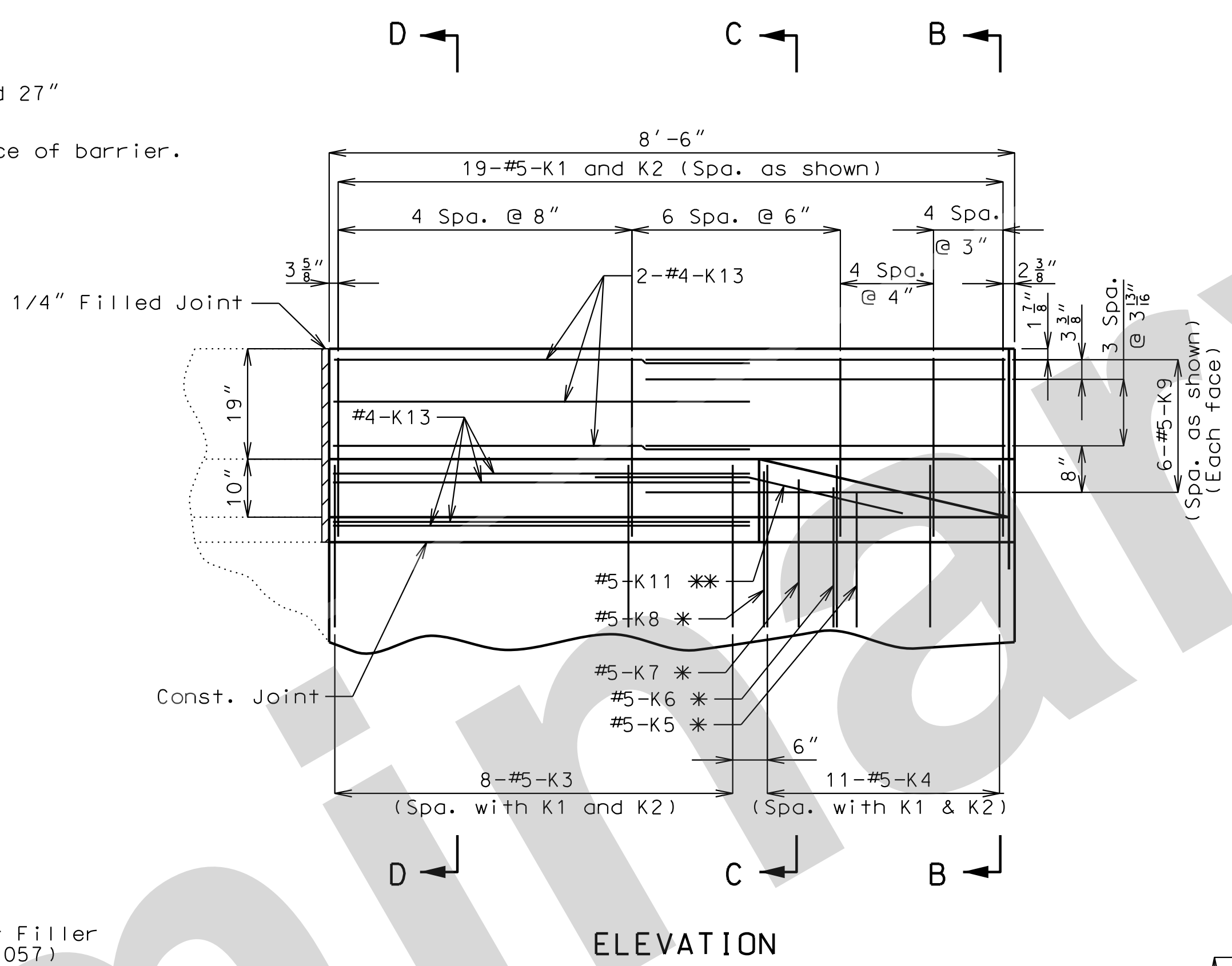


DETAILS OF GUARD RAIL ATTACHMENT

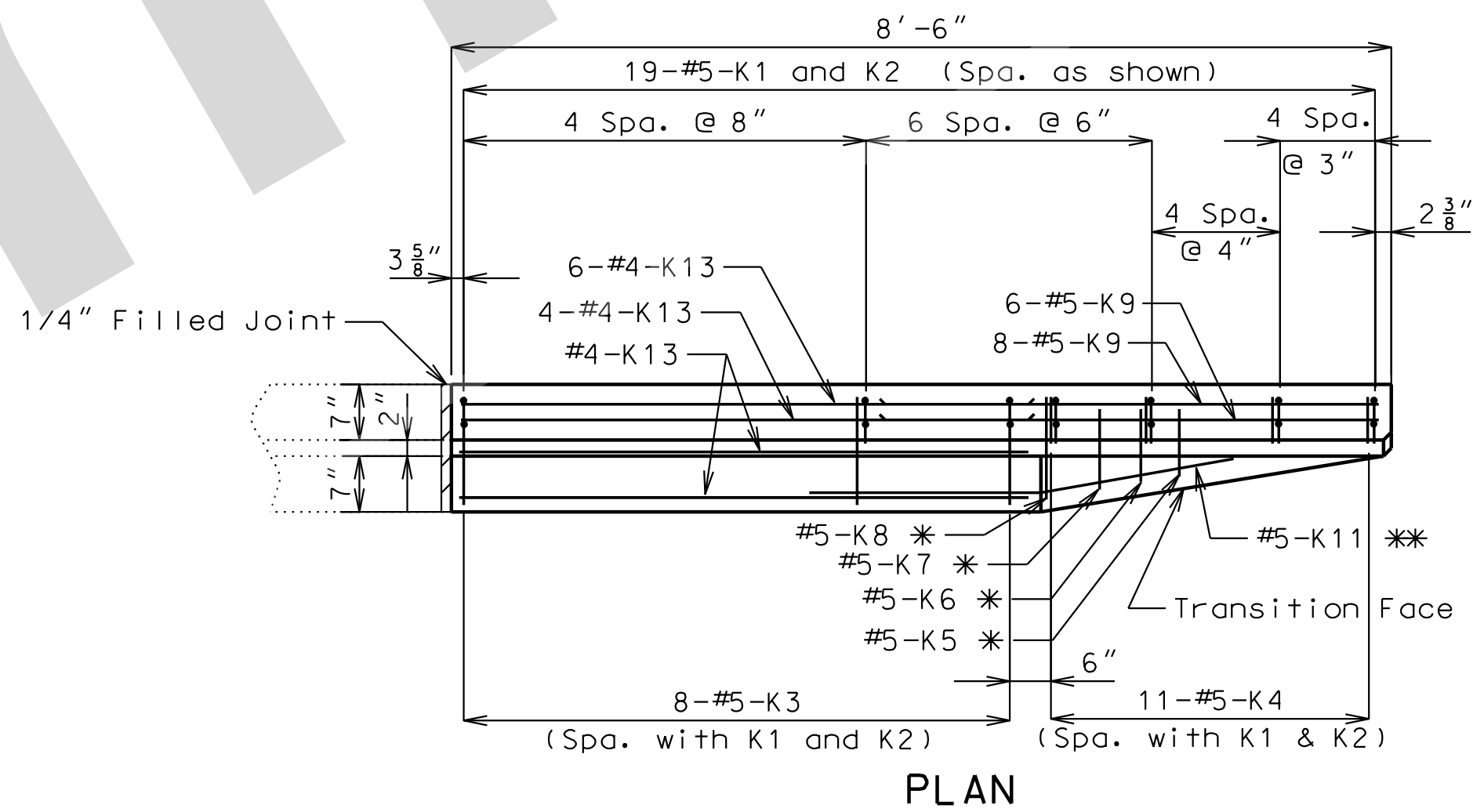
- * Spaced with #5-K4 bars and embed 27" into end bent.
- ** Fit bar to follow transition face of barrier.
- *** To top of bar



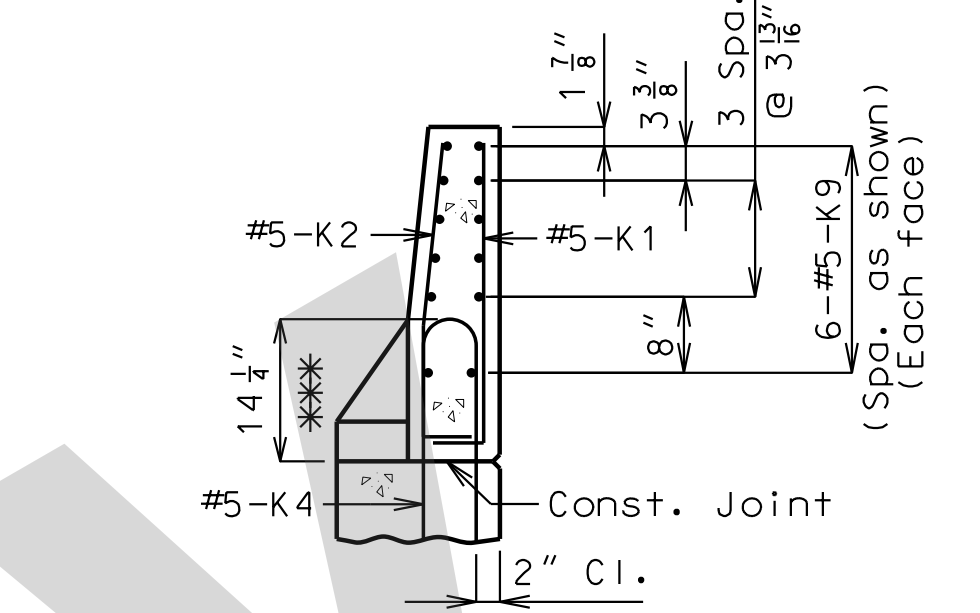
FILLED JOINT DETAIL



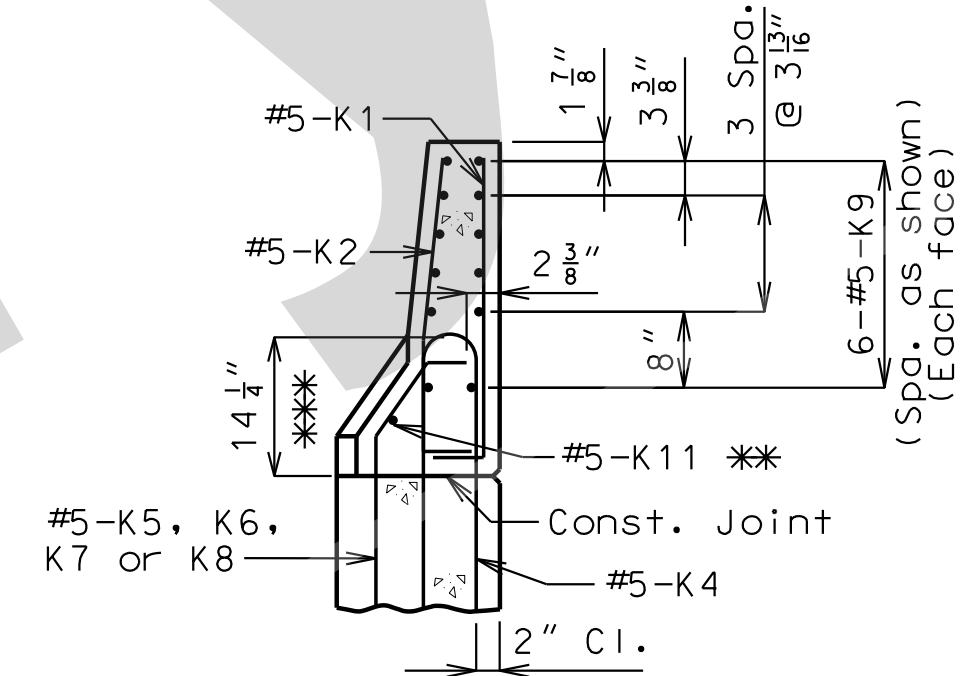
ELEVATION



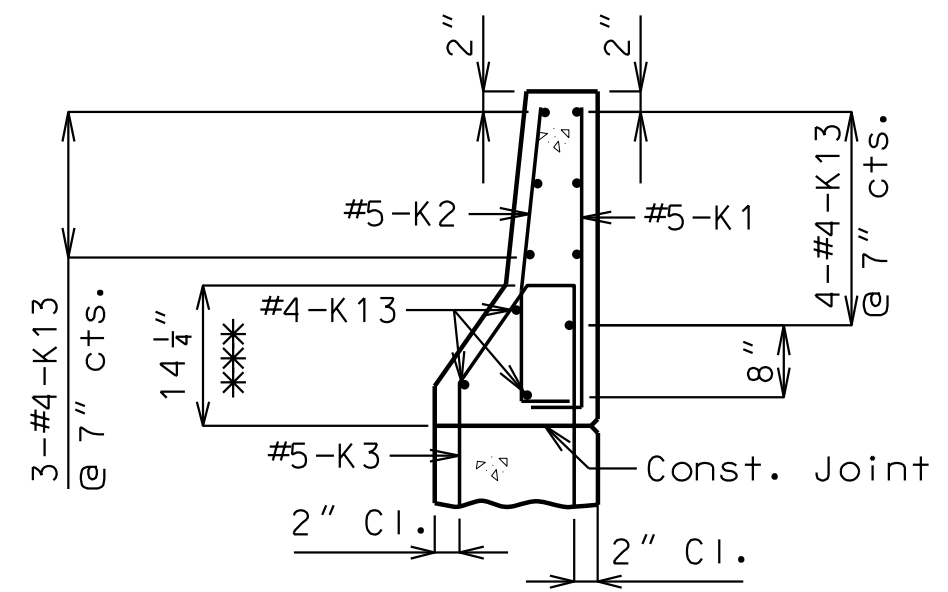
PLAN



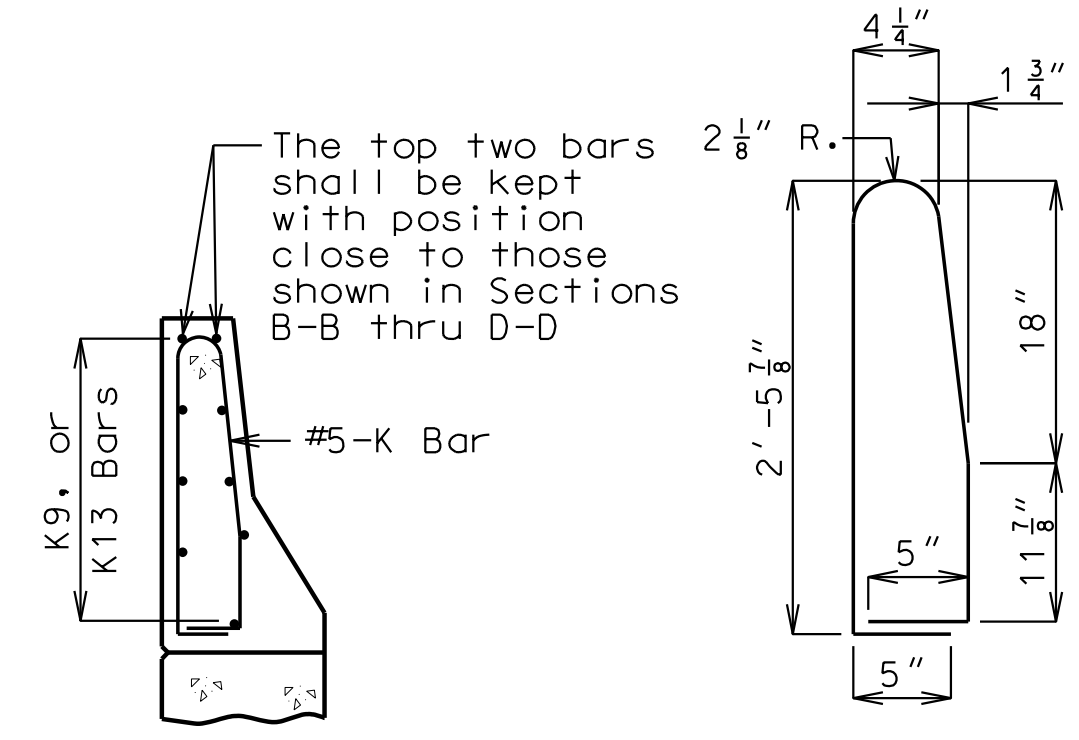
SECTION B-B



SECTION C-C



SECTION D-D



K1-K2 BAR PERMISSIBLE ALTERNATE SHAPE

(K3 or K4 thru K8 bars not shown for clarity)
The K1-K2 bar combination may be furnished as one bar as shown, at the contractor's option.

General Notes:

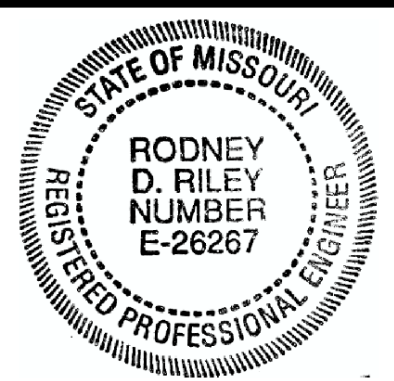
- All exposed edges of barrier shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.
- Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Type B Barrier per linear foot.
- Payment for removal of existing barrier will be considered completely covered by the contract lump sum price for Removal of Wing.
- Concrete in the barrier shall be Class B-1.
- Measurement of barrier is to the nearest linear foot for each structure, measured along the outside top of slab from end of barrier to end of barrier.
- Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type B Barrier.
- Joint sealant and backer rods shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.
- Reinforcing Steel:**
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.
Use a minimum lap of 2'-7" between K9 and K13 bars.

TYPE B BARRIER AT END BENTS
(Right barriers at End Bent 1 N.B. and End Bent 4 S.B.)

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 9

Detailed June 2021
Checked June 2021



DATE PREPARED 06-AUG-2021	
ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 6
COUNTY ST. LOUIS	
JOB NO. J613187	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. A10752	

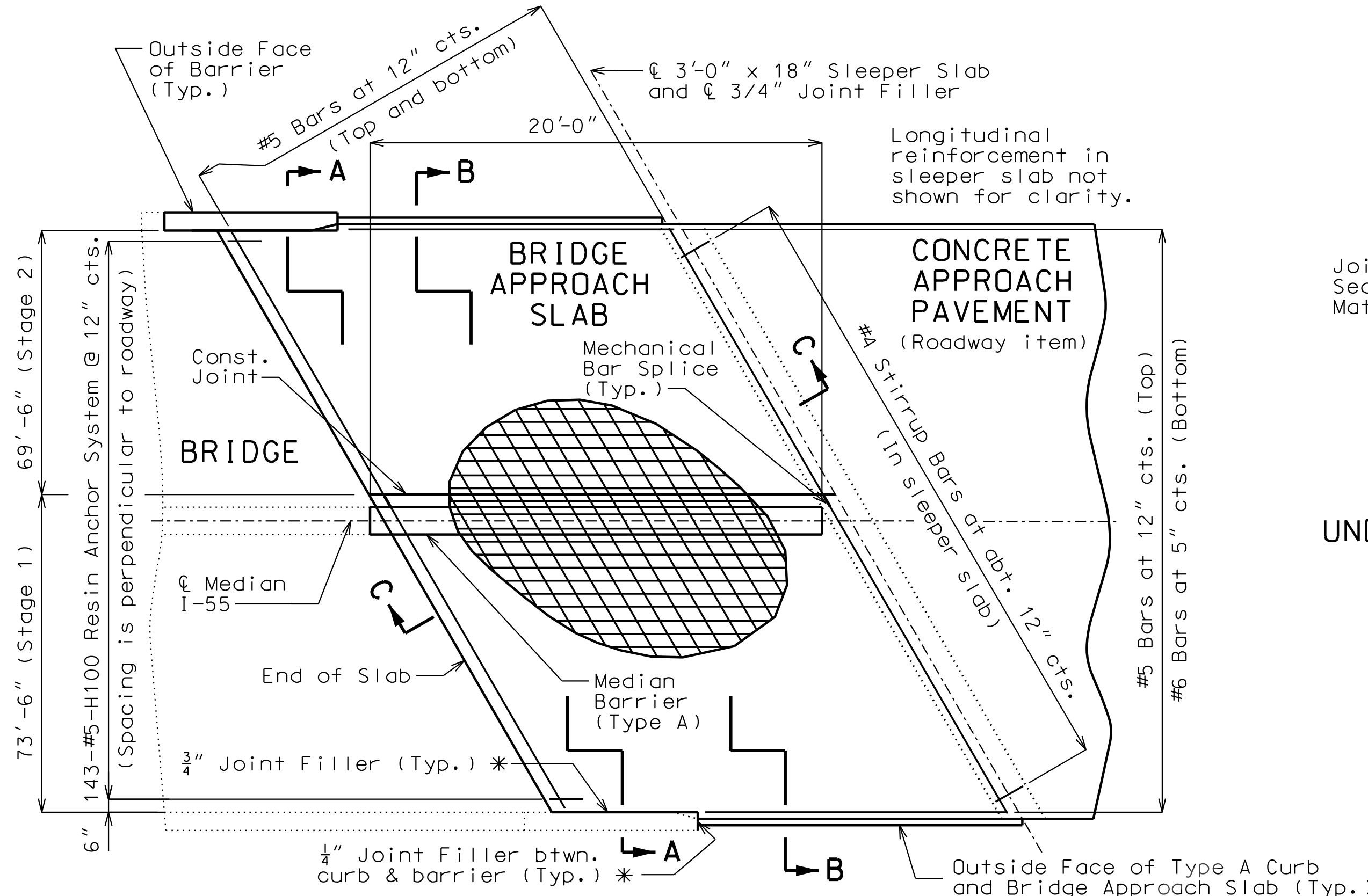
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

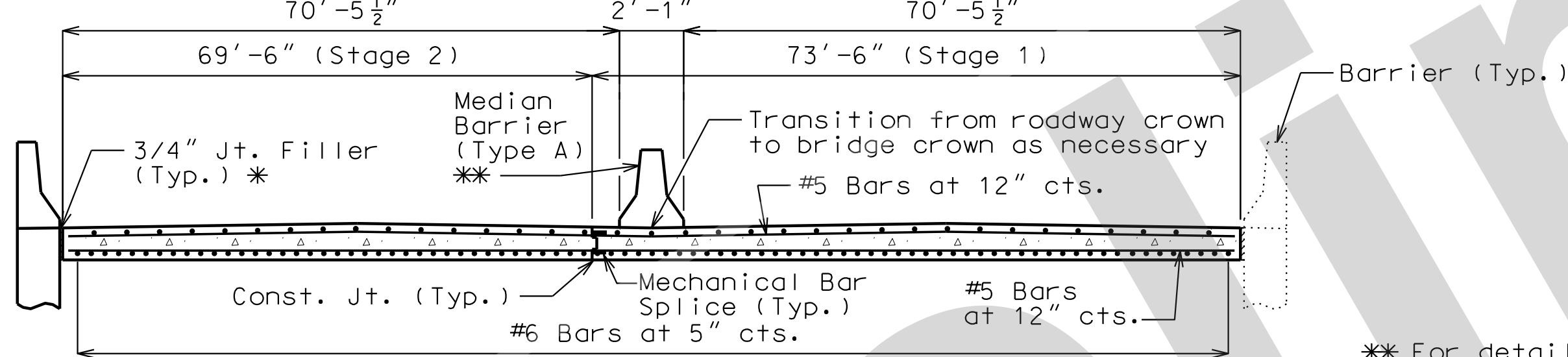
Jacobs
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY
 #00704

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

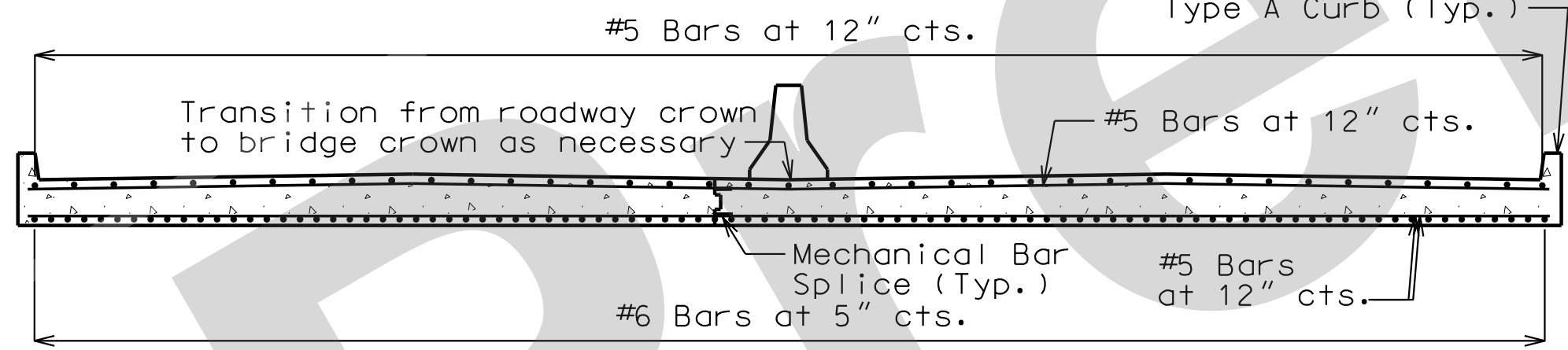


PART PLAN SHOWING REINFORCEMENT

End Bent No. 4 shown, End Bent No. 1 similar

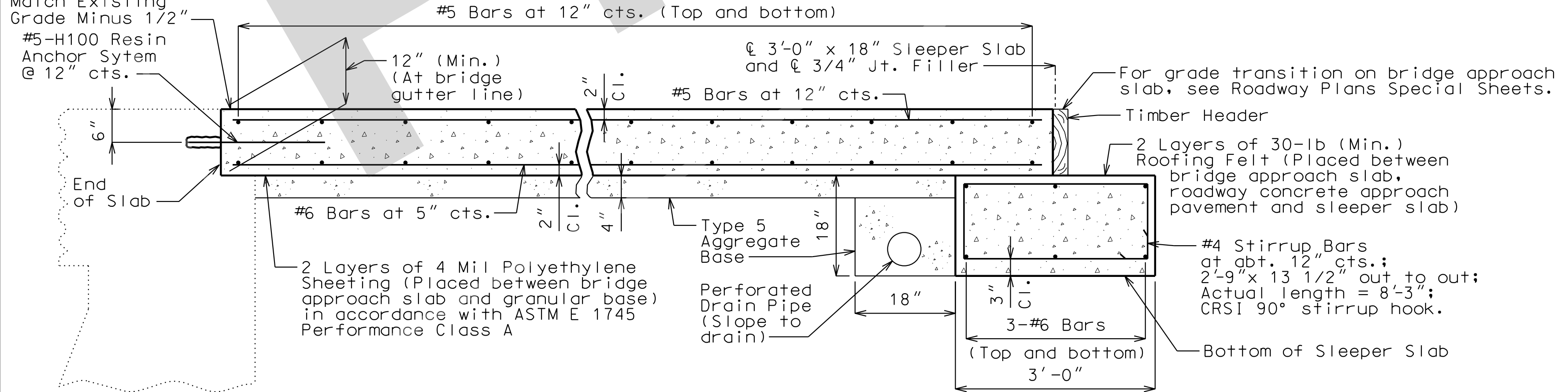


SECTION A-A



SECTION B-B

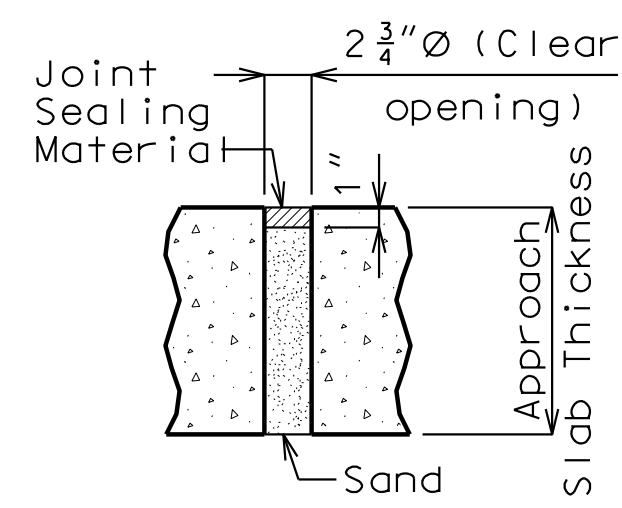
With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



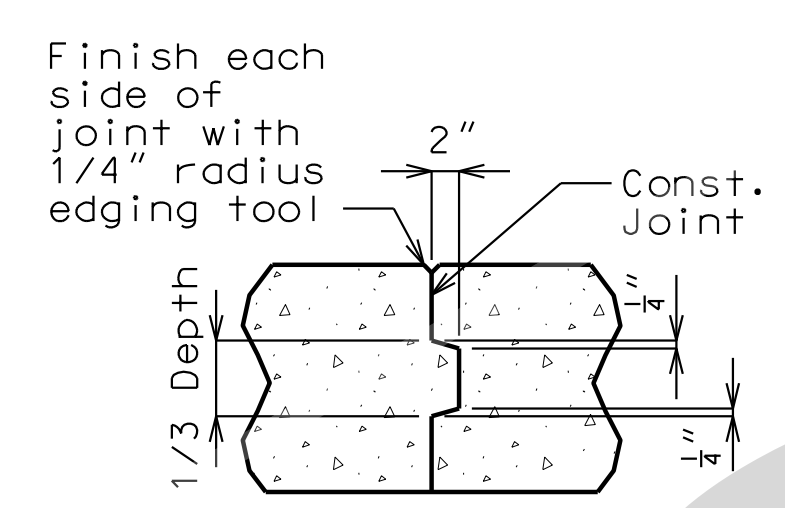
SECTION C-C

BRIDGE APPROACH SLAB (MAJOR)

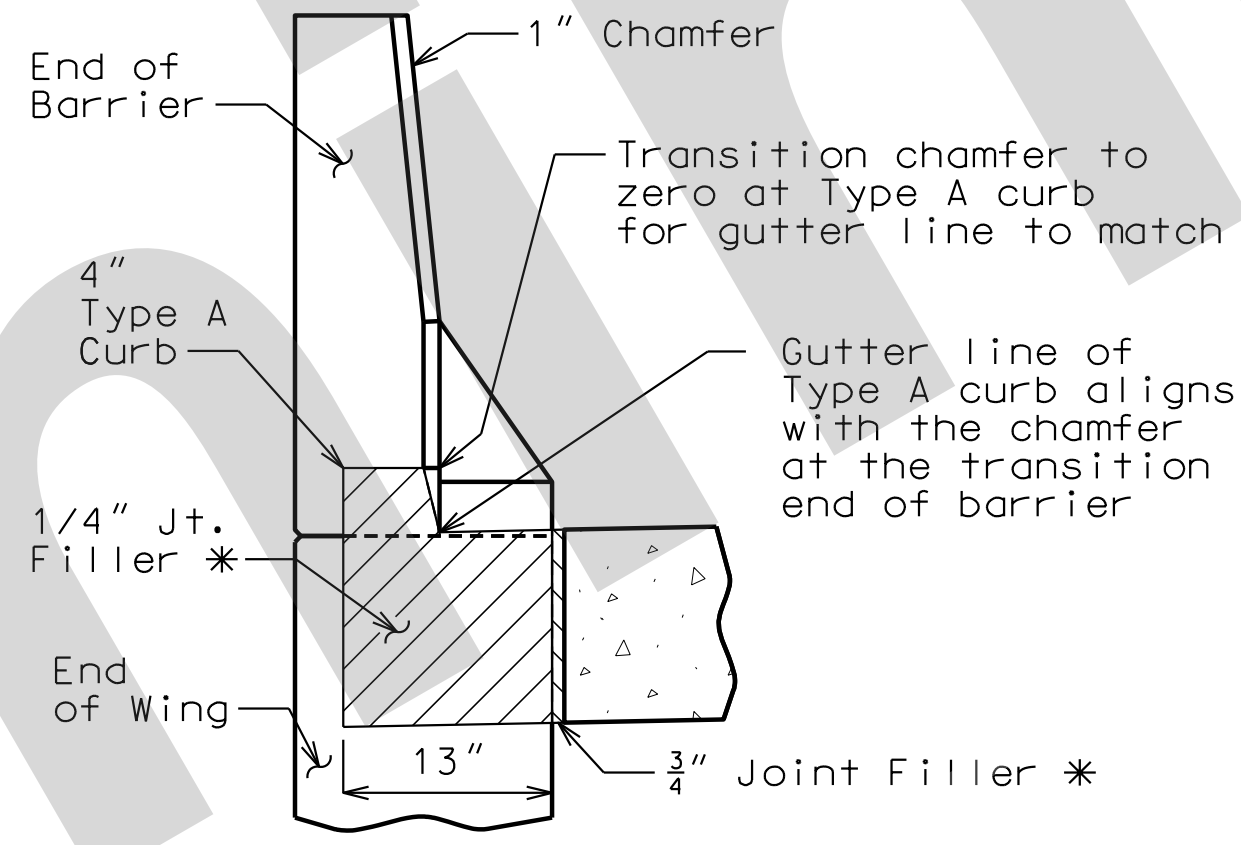
Note: This drawing is not to scale. Follow dimensions.



UNDERSEAL ACCESS HOLE DETAIL
(If required)



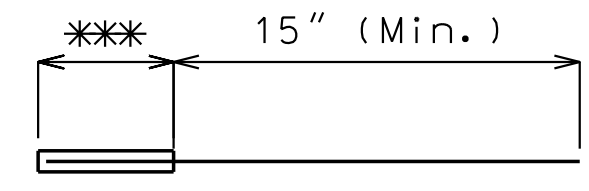
CONSTRUCTION JOINT DETAIL



SECTION BETWEEN BARRIER AND CURB

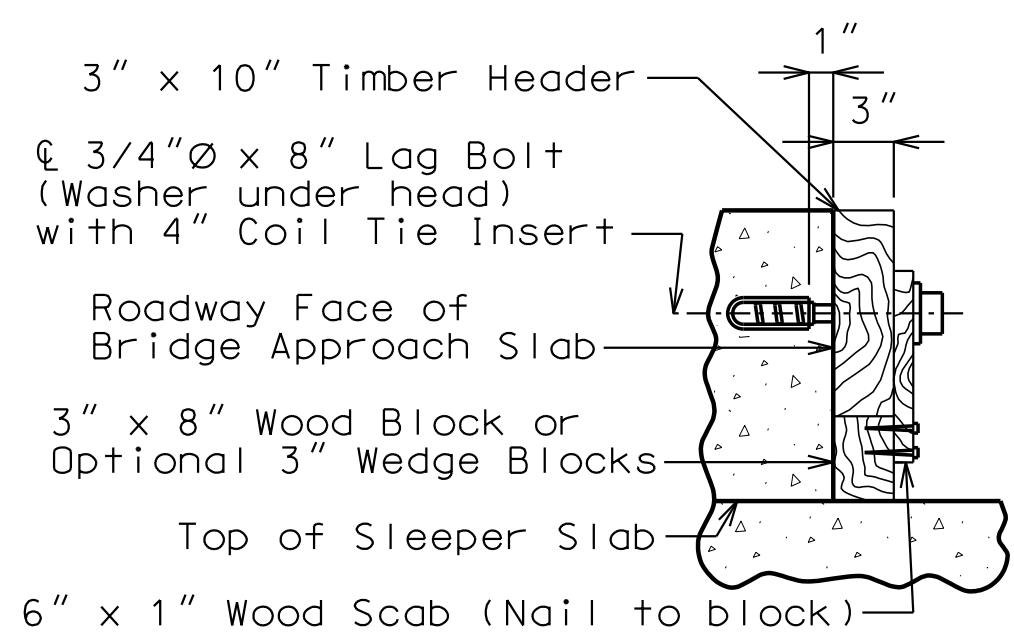
New barrier shown, existing barrier similar.

** For details of Median Barrier (Type A) at End Bents, see Sheet No. 7

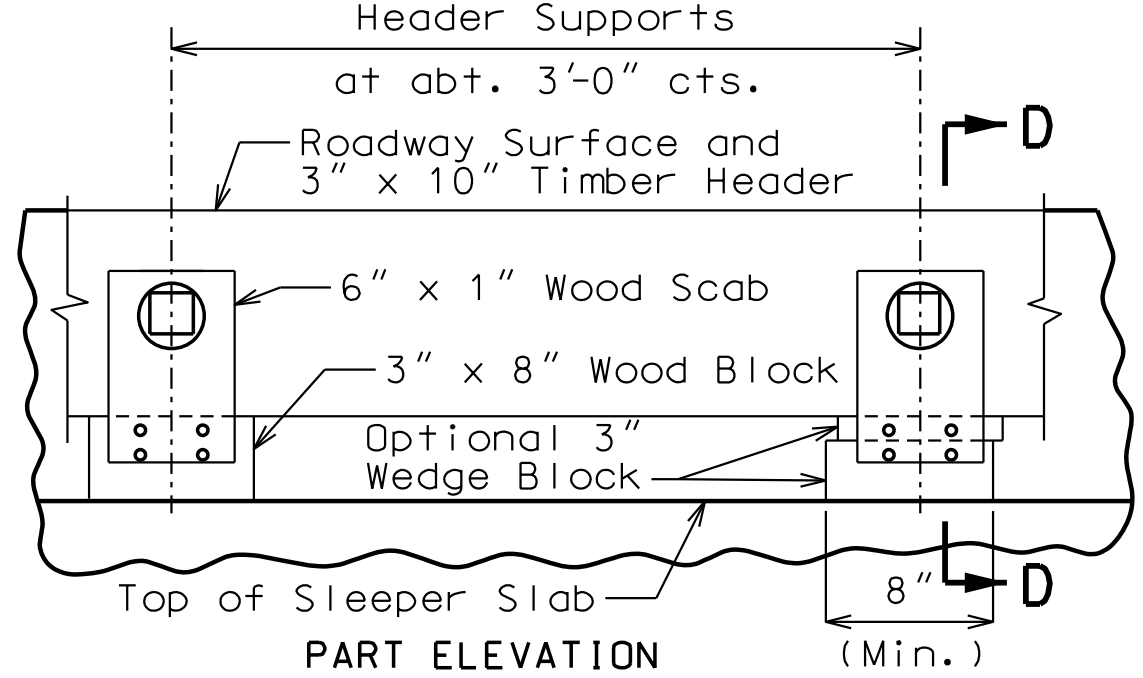


#5-H100 RESIN ANCHOR SYSTEM DETAIL

286 Required per slab
*** Manufacturer's recommended embedment length (5" Min.)



SECTION D-D



PART ELEVATION

Remove timber header when concrete pavement is placed.

General Notes:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with fy = 60,000 psi.

Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #5 bars 29" or by mechanical bar splice (MBS).

Mechanical bar splices shall be in accordance with Sec 710. (Estimated 126 +/- splices per slab)

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler except as noted.

The contractor shall repair and satisfactorily finish the bridge slab before placing the bridge approach slab.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge slab.

For concrete approach pavement details, see roadway plans.

See Missouri Standard Plan 609.00 for details of Type A curb.

Payment for furnishing all materials (including #5-H100 bars and resin anchor systems), labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Major) per square yard.

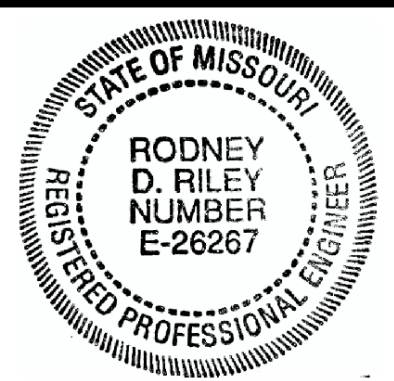
* Seal joint between vertical face of approach slab and wing with sealant in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 06-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 8

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10752

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

ModOT

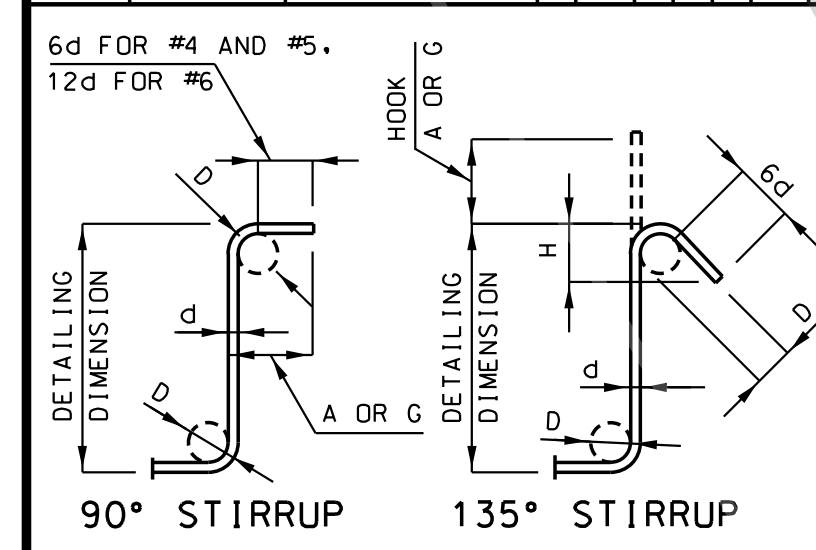
JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

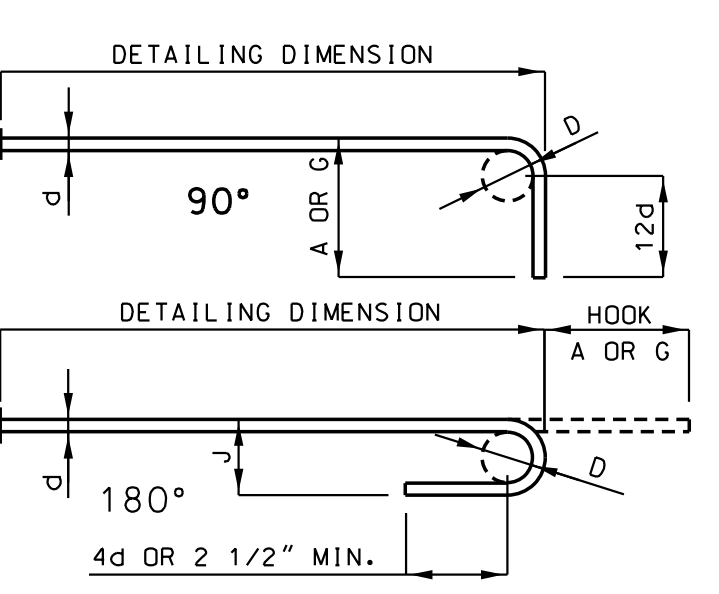
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT					
									B	C	D	E	F	H	K	FT.				IN.	FT.	IN.		
		SUBSTRUCTURE																						
		END BENT 1																						
10	6 H1	WING FTG	E	20	X			4	2.000							4	2	4	2	63				
6	6 H2	WING FTG	E	20	X	V	2	2	2.000							2	2	2	2	28				
		INCR. =						4	0.000							4	0	4	0					
		11 in																						
10	5 H3	WING FTG	E	20	X	V	2	4	11.000							4	11	4	11	69				
		INCR. =						8	3.000							8	3	8	3					
		10 in																						
8	8 H4	WINGWALL	E	20	X			8	3.000							8	3	8	3	176				
10	6 H5	WINGWALL	E	20	X			8	3.000							8	3	8	3	124				
3	5 H200	APPR. NOTCH	E	20	X			9	9.000							9	9	9	9	31				
18	6 V1	WINGWALL	E	19	X			6	0.000	1	0.000					7	0	6	10	185				
		END BENT 4																						
10	6 H1	WING FTG	E	20	X			4	2.000							4	2	4	2	63				
6	6 H2	WING FTG	E	20	X	V	2	2	2.000							2	2	2	2	28				
		INCR. =						4	0.000							4	0	4	0					
		11 in																						
10	5 H3	WING FTG	E	20	X	V	2	4	11.000							4	11	4	11	69				
		INCR. =						8	3.000							8	3	8	3					
		10 in																						
8	8 H4	WINGWALL	E	20	X			8	3.000							8	3	8	3	176				
10	6 H5	WINGWALL	E	20	X			8	3.000							8	3	8	3	124				
3	5 H200	APPR. NOTCH	E	20	X			9	9.000							9	9	9	9	31				
18	6 V1	WINGWALL	E	19	X			6	0.000	1	0.000					7	0	6	10	185				
		END BENT 4																						
		TYPE B BARRIER CURE																						
38	5 K1	TYPE B BARR.	E	19	S			2	5.000	0	5.125					2	10	2	9	109				
38	5 K2	TYPE B BARR.	E	14	S			0	5.125	0	11.125	1	6.000			0	2.000	1	5.875	2	10	2	9	109
16	5 K3	TYPE B BARR.	E	27	S			3	5.375	0	5.125	1	0.000	2	7.500	0	9.875	0	6.875	7	6	7	4	122
22	5 K4	TYPE B BARR.	E	7	S			3	5.375	0	5.500					7	1	7	1	163				
2	5 K5	TYPE B BARR.	E	25	S			2	8.000	0	6.750	0	4.375			0	5.500	0	4.000	3	7	3	6	7
2	5 K6	TYPE B BARR.	E	25	S			2	8.250	0	7.875	0	4.375			0	6.500	0	4.500	3	9	3	8	8
2	5 K7	TYPE B BARR.	E	25	S			2	8.250	0	9.625	0	4.375			0	7.875	0	5.500	3	10	3	10	8
2	5 K8	TYPE B BARR.	E	25	S			2	7.750	0	11.250	0	4.375			0	9.250	0	6.500	3	11	3	11	8
24	5 K9	TYPE B BARR.	E	20	S			6	3.000							6	3	6	3	156				
20	4 K11	TYPE B BARR.	E	8	S			2	2.125			2	2.000	0	2.375	4	4	4	4	9				
2	5 K13	TYPE B BARR.	E	20	S			4	7.000							4	7	4	7	61				
		TYPE A BARRIER CURE																						
84	5 R4	TYPE A BARR.	E	27	S			0	8.000	0	11.250	0	9.000	1	0.000	0	9.250	0	6.375	3	4	3	2	277
42	4 R14	TYPE A BARR.	E	15	S			2	5.125	0	3.500	2	5.000	0	3.000	2	5.000	0	3.000	5	2	5	0	140
14	5 M9	TYPE A BARR.	E	20	S			19	9.000							19	9	19	9	288				



BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		H	A OR G	H	A OR G
#4	2"	4 1/2"	4 1/2"	3"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"	4 1/2"

NOTE: UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS	
		A OR G	J	A OR G	A OR G
#3	2 1/4"	5"	3"	6"	6"
#4	3"	6"	4"	8"	8"
#5	3 3/4"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	12"	12"
#7	5 1/4"	10"	7"	14"	14"
#8	6"	11"	8"	16"	16"
#9	9 1/2"	15"	11 3/4"	19"	19"
#10	10 3/4"	17"	13 1/4"	22"	22"
#11	12"	19"	14 3/4"	2'-0"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"	2'-7"

NOTE: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

E = EPOXY COATED REINFORCEMENT.
 S = STIRRUP.
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.

NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)

ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

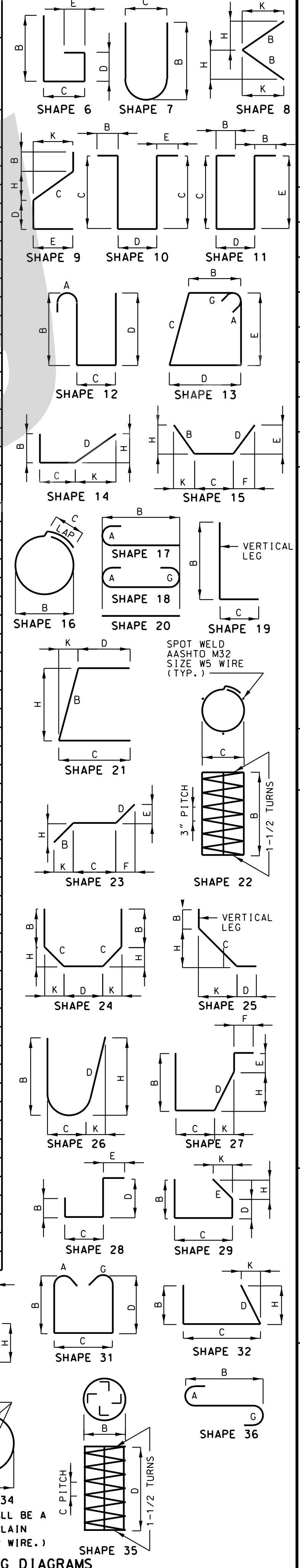
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.

FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.

REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B	C	D	E	F	H	K	FT.				IN.
		TOTALS																		
4			E																201	
5			E																1464	
6			E																800	
8			E																352	
		TOTAL	E																2817	
		REINFORCING STEEL (EPOXY COATED)																		
5			E																200	
6			E																800	
8			E																352	
		TOTAL	E																1352	
		TYPE B BARRIER CURE																		
4			E																61	
5			E																699	
		TOTAL	E																760	
		TYPE A BARRIER CURE																		
4			E																140	
5			E																565	
		TOTAL	E																705	



RODNEY D. RILEY
REGISTERED PROFESSIONAL ENGINEER
MISSOURI LICENSE NUMBER E-26267

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED: 06-AUG-2021

ROUTE: I-55 STATE: MO

DISTRICT: BR SHEET NO.: 9

COUNTY: ST. LOUIS

JOB NO.: J613187

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.: A10752

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

JACOBS ENGINEERING GROUP
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704

Estimated Quantities

Item	Substr.	Superstr.	Total
Removal of Existing Bridge Deck	sq. foot	48,391	48,391
Removal of Existing Bearings	each	20	20
Bridge Approach Slab (Major)	sq. yard	389	389
Pedestrian Fence (Structure)	linear foot	90	90
Slab on Steel	sq. yard	5351	5351
Type D Barrier	linear foot	1370	1370
(1) Ultra-High-Performance Concrete	cu. yard	19.9	19.9
Substructure Repair (Unformed)	sq. foot	365	365
Conduit System on Structure	lump sum		1
Protective Coating - Concrete Bents & Piers (Epoxy)	lump sum		1
Fabricated Structural Carbon Steel (Misc)	pound	60	60
Slab Drain	each	18	18
Drainage System (On Structure)	lump sum		1
Type N PTFE Bearing	each	20	20
Strip Seal Expansion Joint System	linear foot	204	204

(1) See Special Provisions

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Payment for removal of girder bumpers and trimming girder ends will be considered completely covered by the contract unit price for Removal of Existing Bearings.

Estimated Quantities for Slab on Steel

Item	Total
Class B-2 Concrete	cu. yard 1,257
Reinforcing Steel (Epoxy Coated)	pound 434,620

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 3.

Concrete above the upper construction joint in backwall at End Bents No. 1 and 9 is included with the Class B-2 Concrete (Slab on Steel) Quantities.

Maintenance Notes:

All permanent clearances shall be verified before project closing.

The contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad.

Regardless of underlying land ownership, all shoring systems within Railroad right-of-way or that may impact the Railroad's operations and/or supports the Railroad's embankment shall be designed and constructed per current Railroad Guidelines for Temporary Shoring.

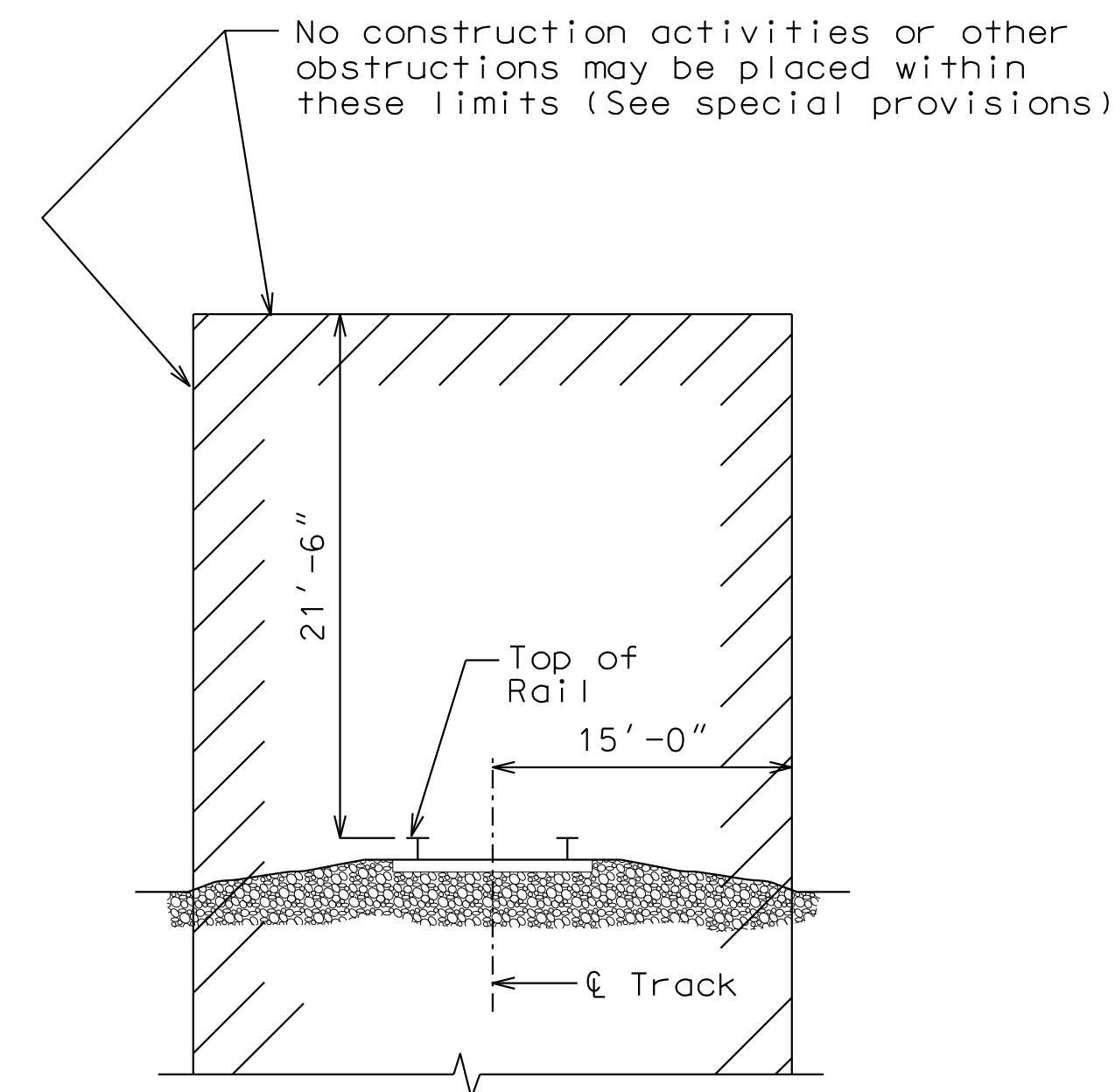
The contractor shall submit and provide sufficient safety measures to protect unattended excavations to the Railroad for approval.

All demolitions/removals within the Railroad's right-of-way and/or that may impact the Railroad's tracks or operations shall be in compliance with the current Railroad's Demolition Guidelines.

Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all equipment.

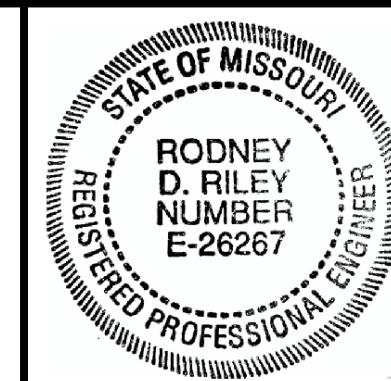
Call Before You Dig. Prior to excavation, disrupting, or working on the Railroad property the contractor shall locate and protect UPRR facilities by calling the UPRR "Call Before You Dig" (CBYD) phone number: 1-800-336-9193.

Construction activities, including falsework/formwork, are not allowed within the "Minimum Construction Clearance Envelope" as they would otherwise disrupt Railroad operations.



MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
(Normal to railroad)

Note:
For General Notes, see Sheet No. 1.



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED
05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

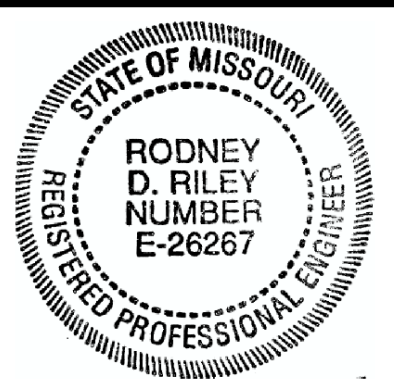
1-888-ASK-MODOT (1-888-275-6636)

ModOT

JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

REVISIONS

NO. DESCRIPTION

DATE

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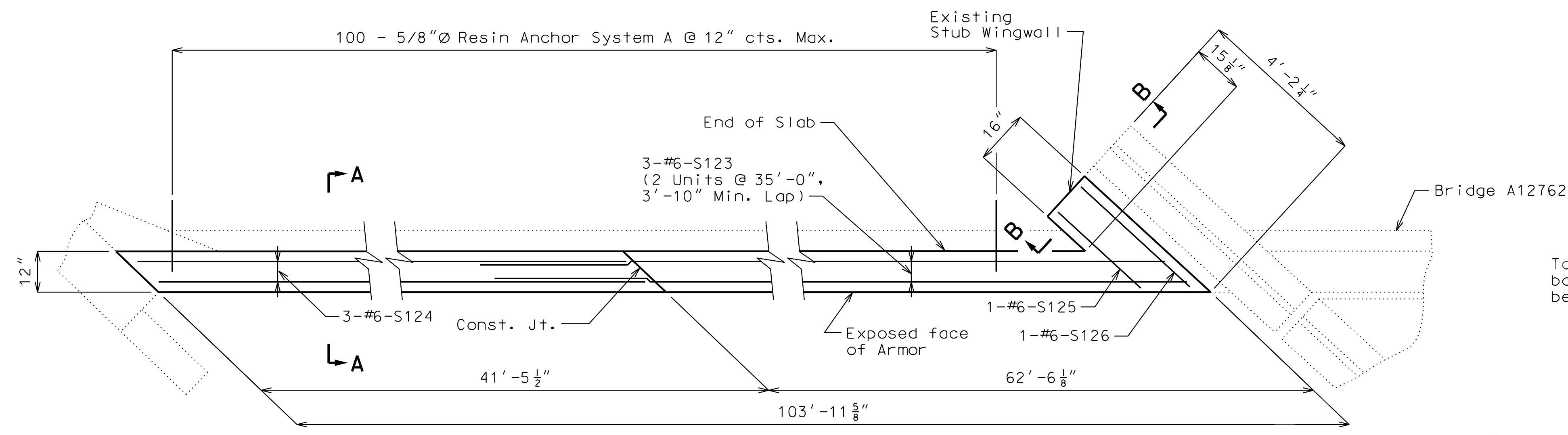
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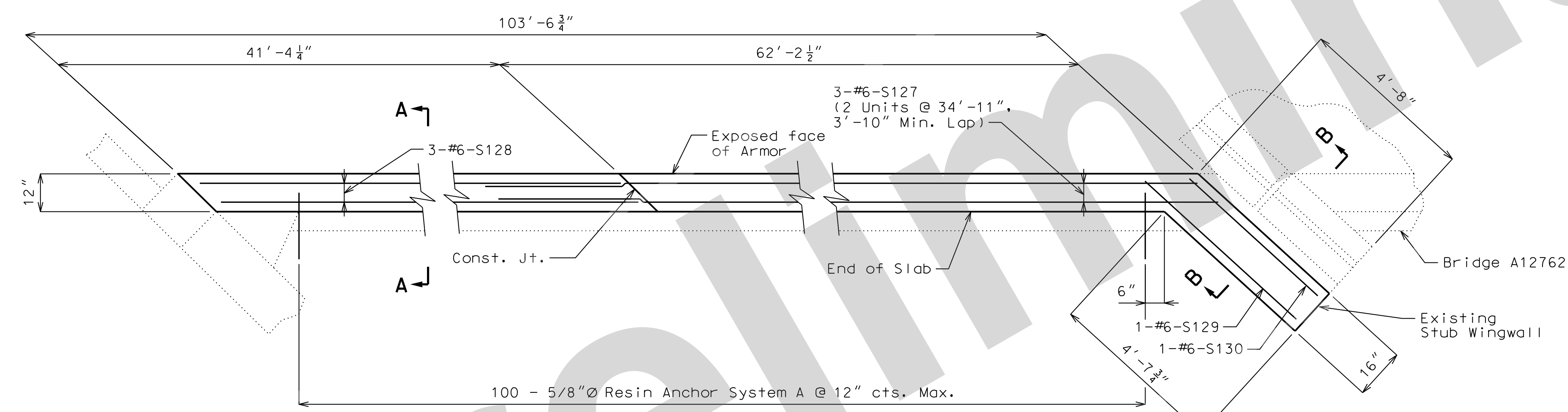
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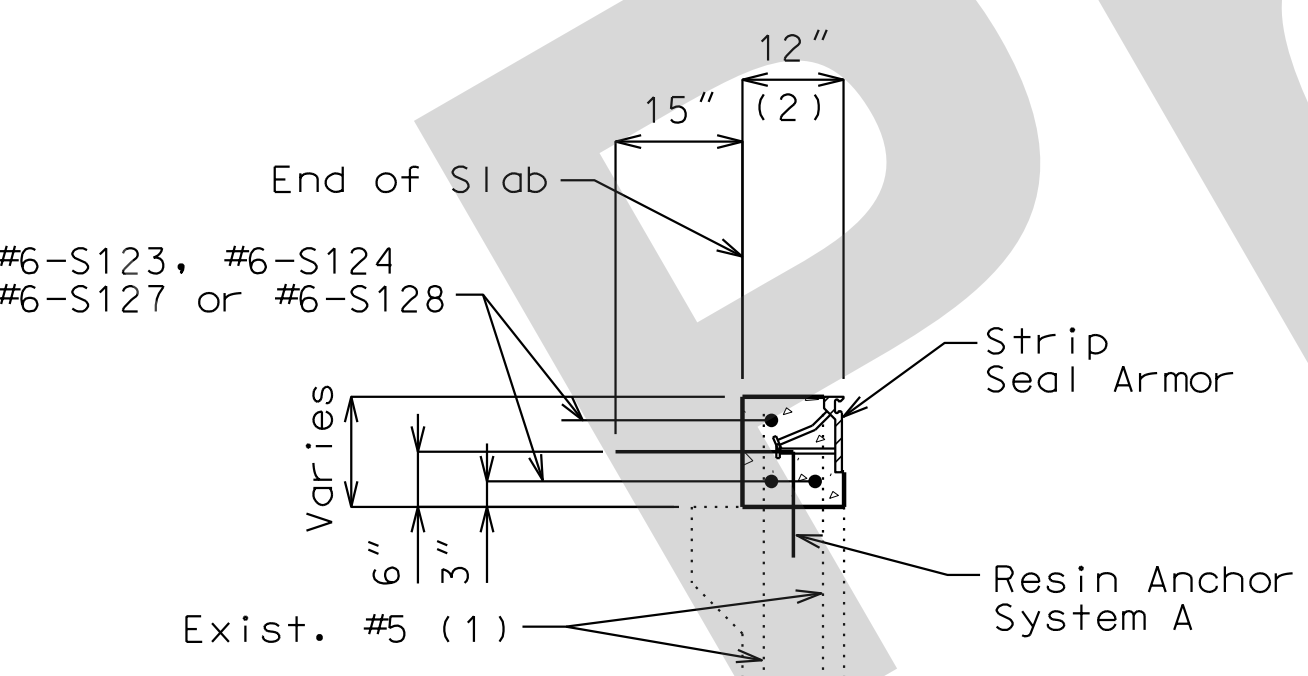
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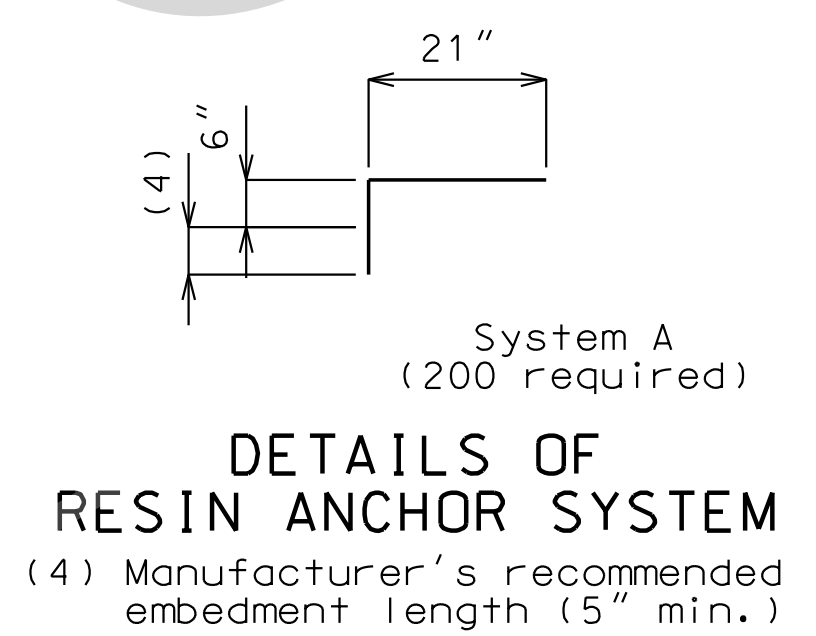
PART PLAN - END BENT NO. 1



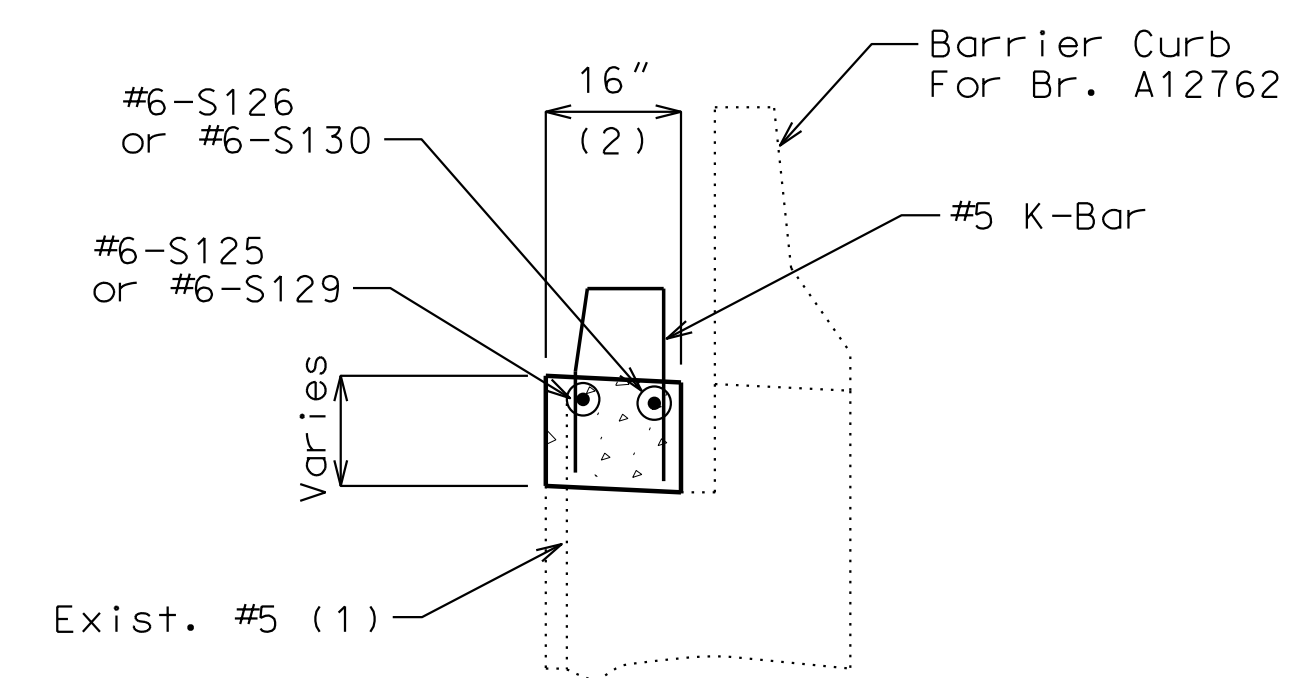
PART PLAN - END BENT NO. 9



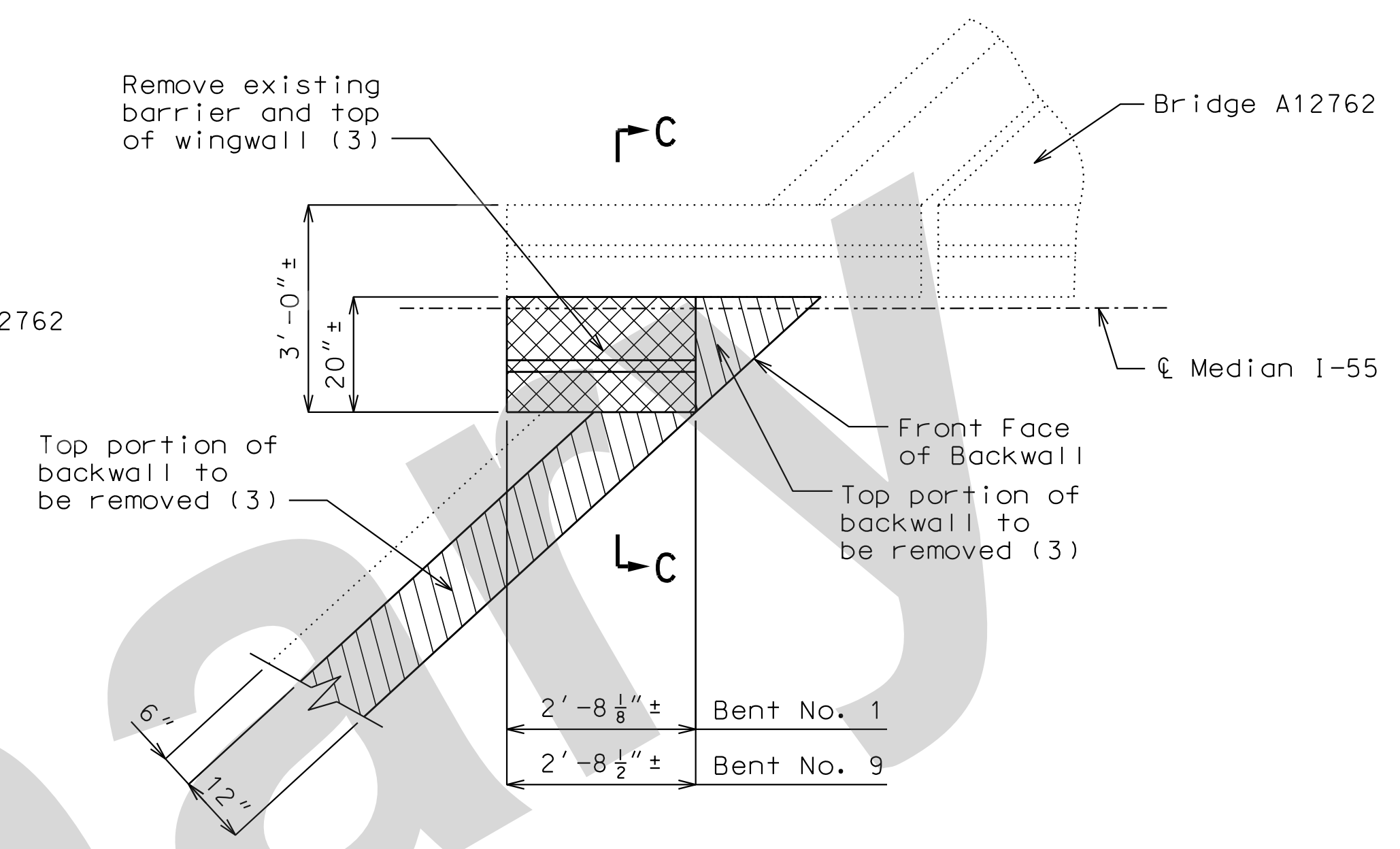
SECTION A-A



DETAILS OF RESIN ANCHOR SYSTEM
(4) Manufacturer's recommended embedment length (5" min.)

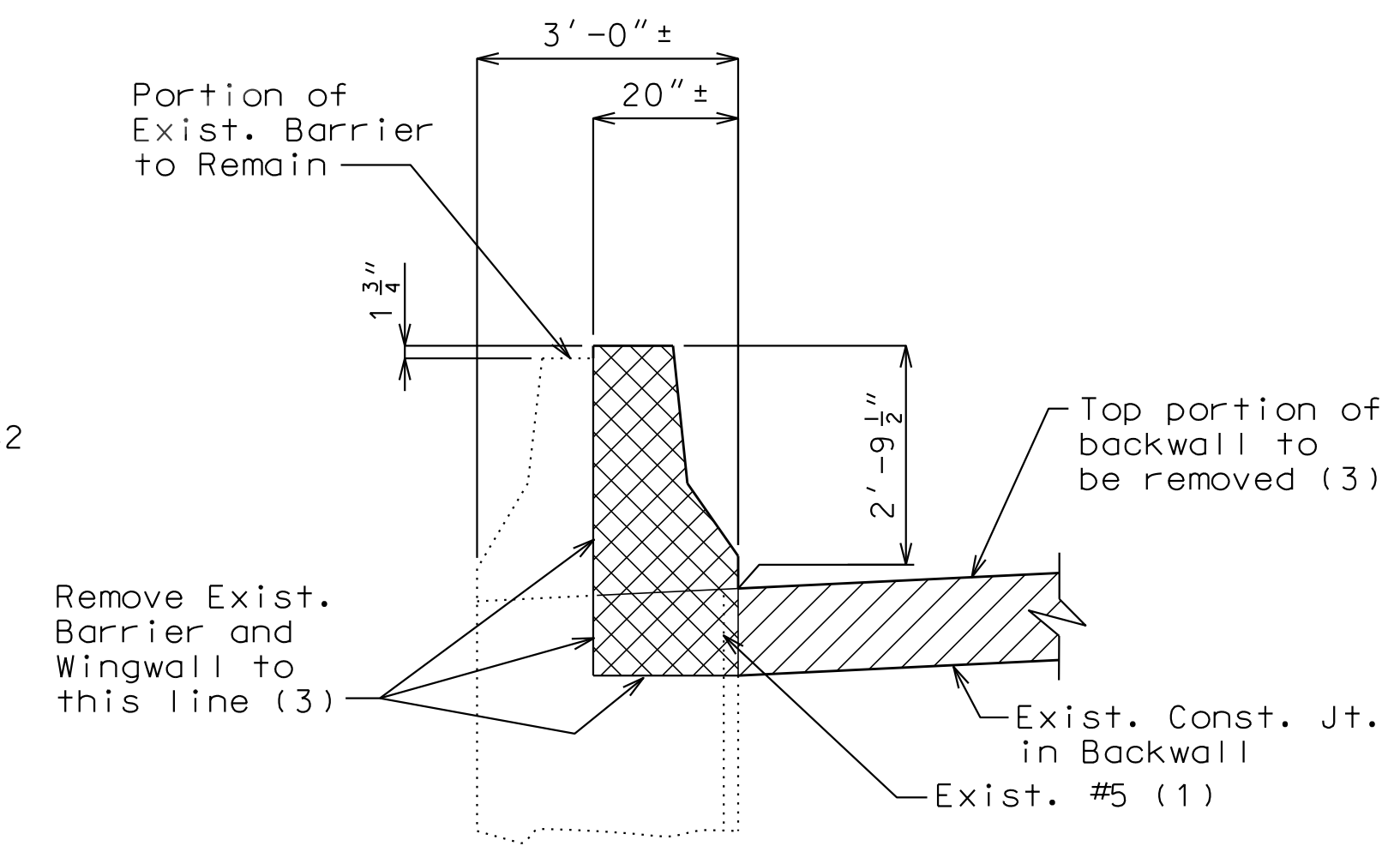


SECTION B-B



STUB WINGWALL DEMOLITION AT END BENTS

Note: End Bent No. 1 shown, End Bent No. 9 similar and rotated 180°.



SECTION C-C

Notes:

For General Notes, see Sheet No. 1.

For Demolition Details not shown, see Sheet No. 3.

For Strip Seal Expansion Joint System, see Sneet No. 7.

Top of backwall for End Bents No. 1 and 9 shall be formed to the slope and grade of the roadway. Backwall above the upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with f'c = 4,000 psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.

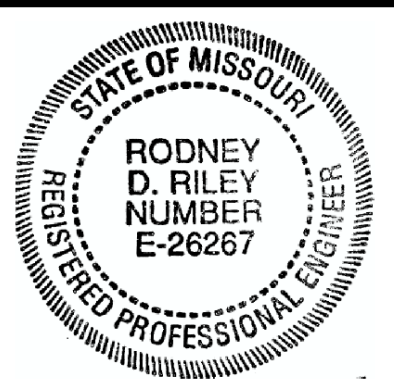
- (1) #5 bars shall be cleaned, straightened, and reused.
- (2) New Concrete for Top of Backwall shall be Ultra-high Performance Concrete (UHPC). See Special Provisions.
- (3) Payment for removal of existing barrier and wingwall at End Bents No. 1 and 9 will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck.

END BENT DETAILS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 22



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 5

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

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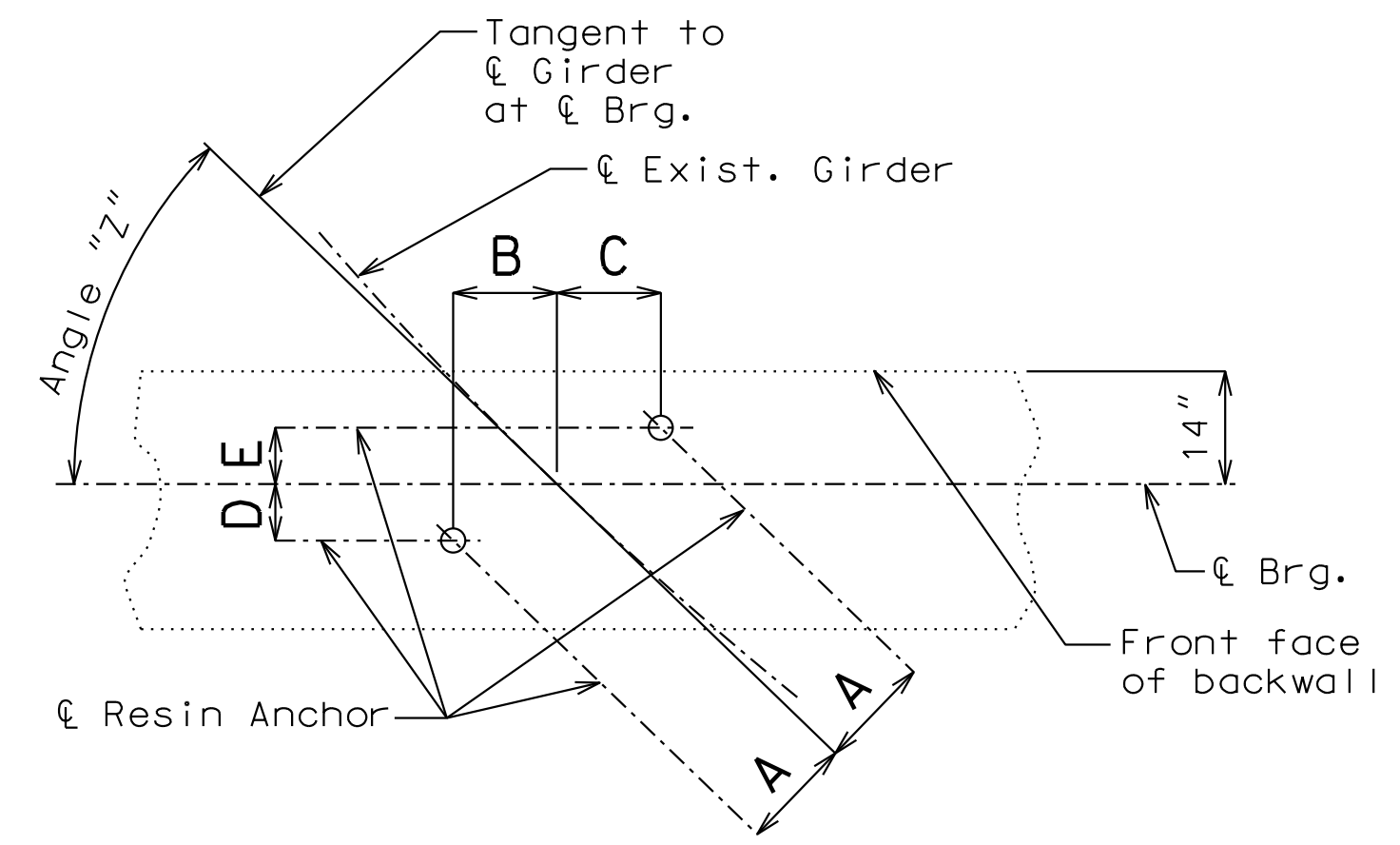
DATE

DESCRIPTION

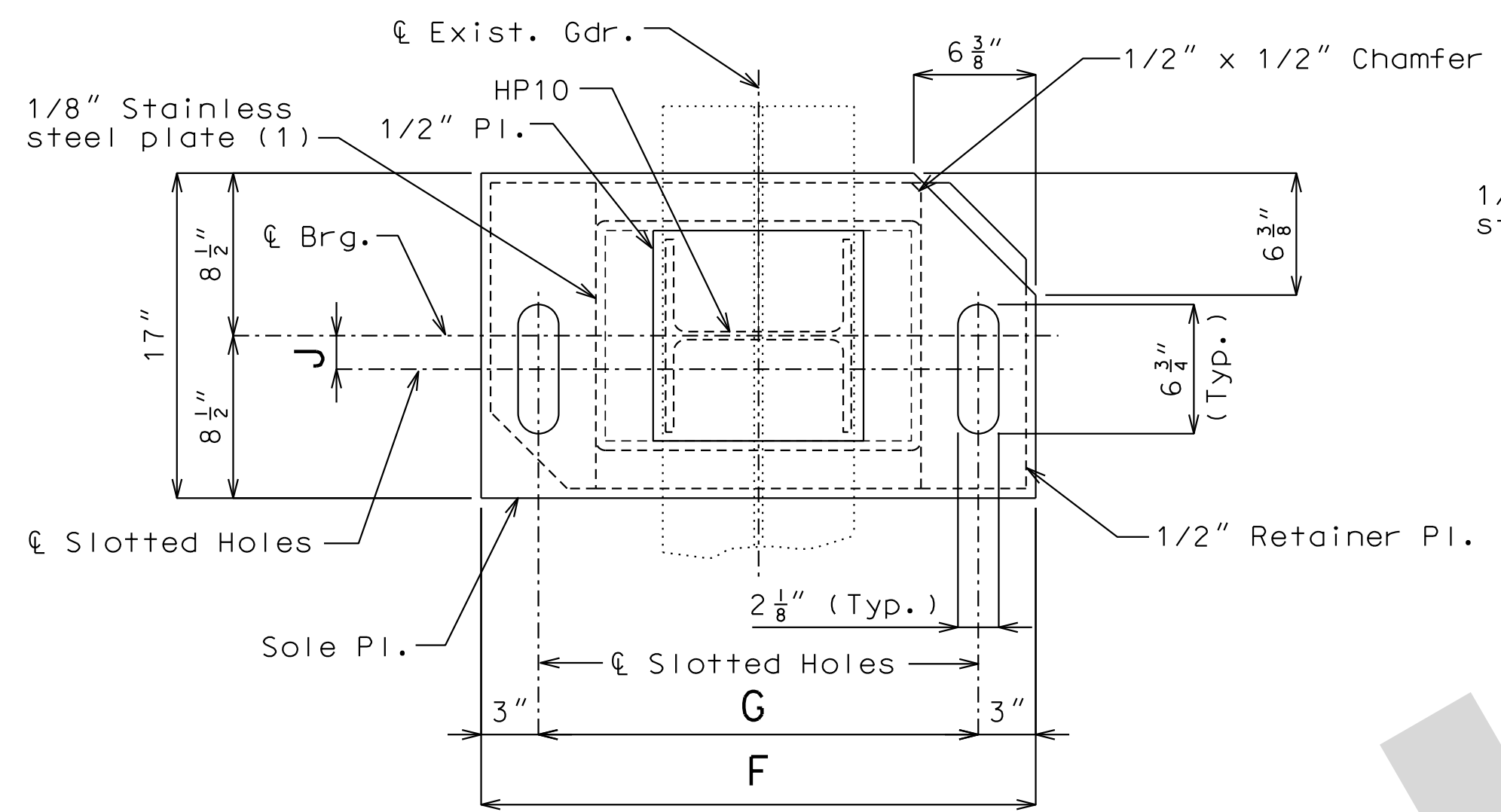
DATE

DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET, IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

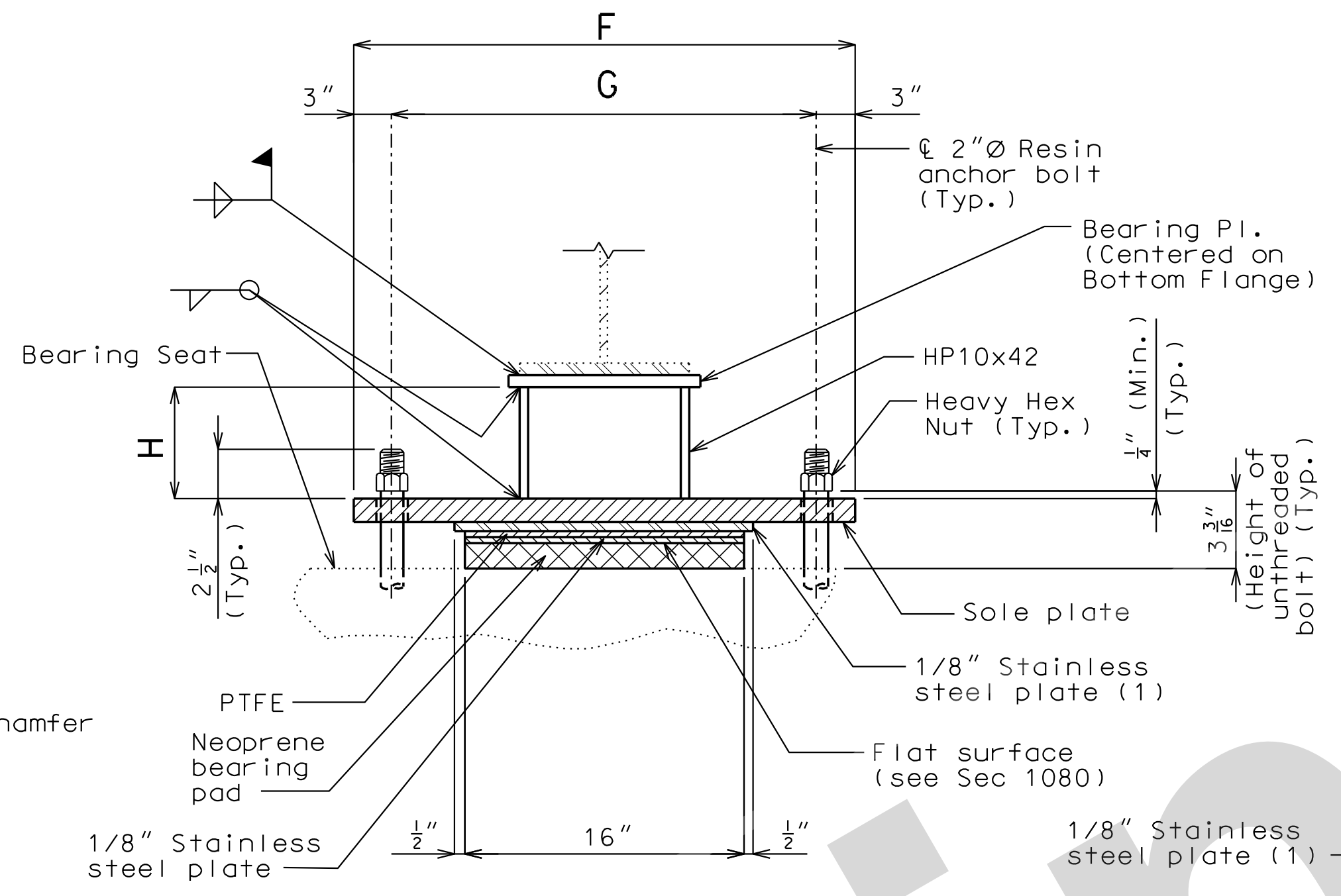


BEARING ALIGNMENT DETAIL

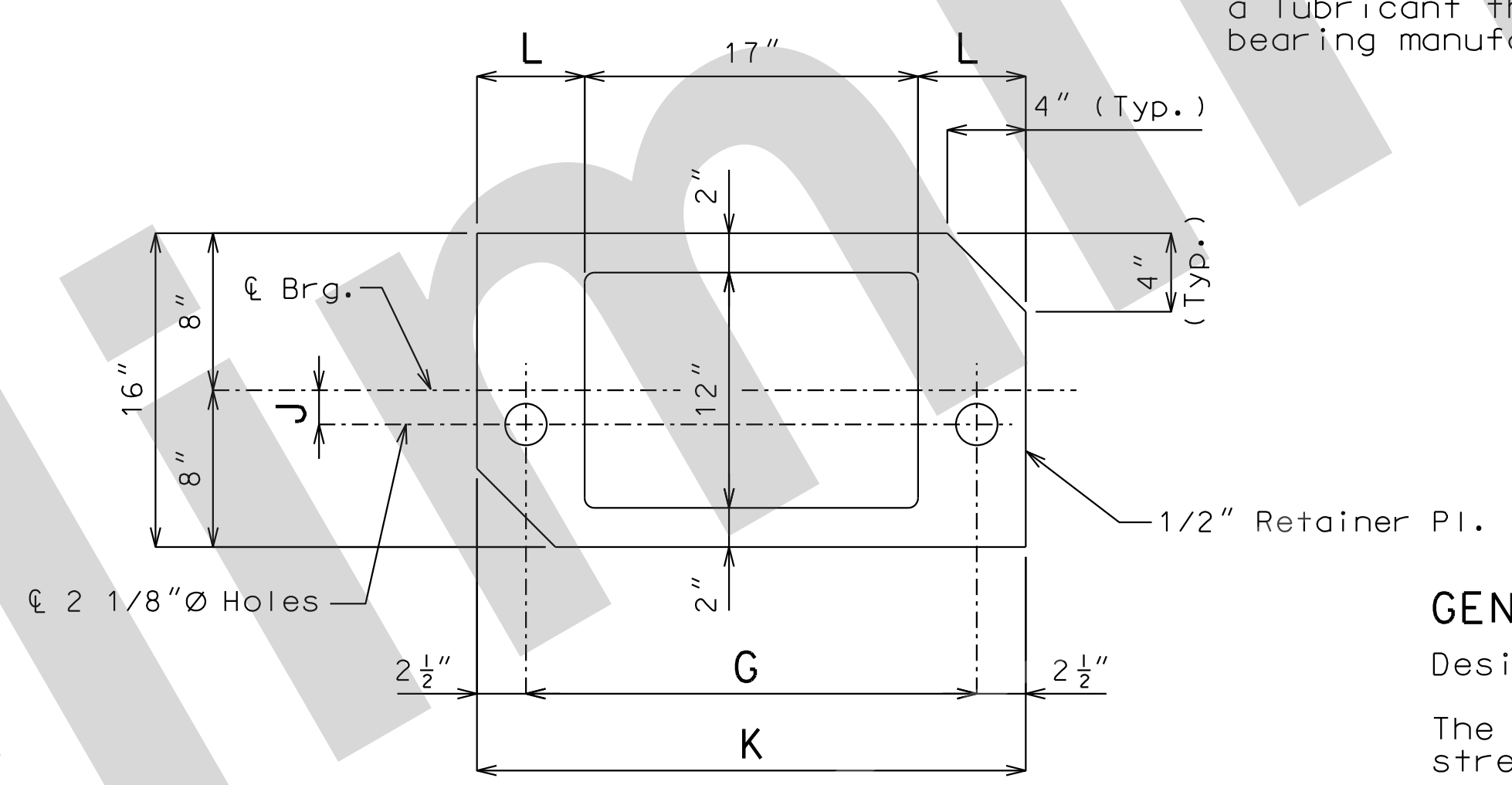


PART PLAN SHOWING SOLE AND RETAINER PLATES

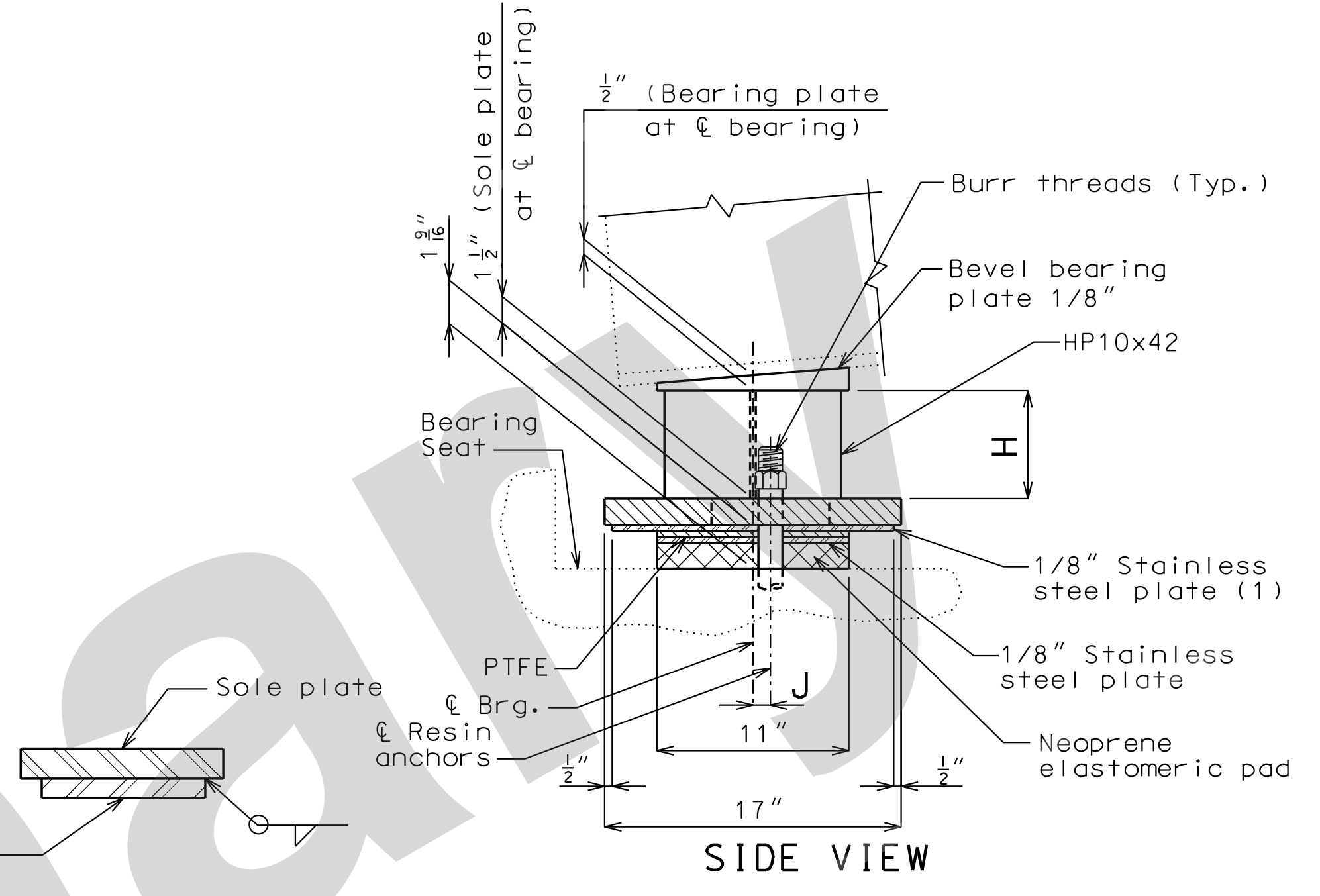
Retainer plates shall be provided to prevent loss of support due to creeping of PTFE bearings. Payment for fabricating and installing the retainer plates will be considered completely covered by the contract unit price for Type N PTFE Bearing.



END VIEW

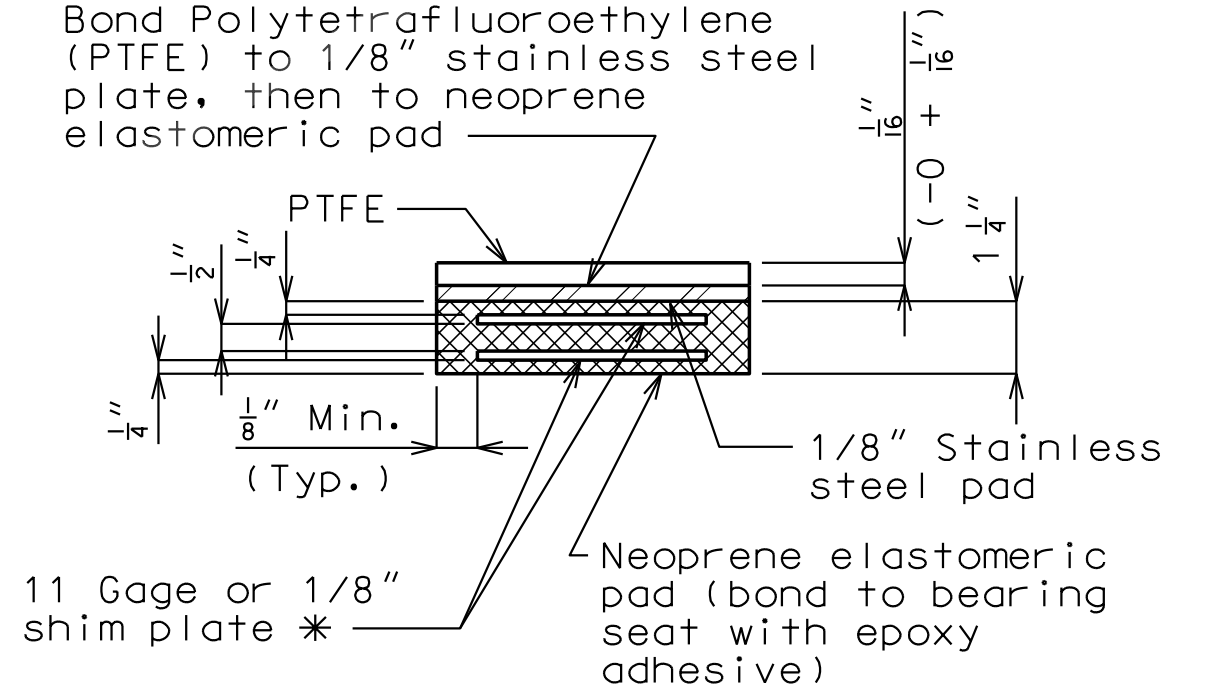


RETAINER PLATE DETAIL



SIDE VIEW

(1) The bottom face of the 1/8" stainless steel plate that is welded to the sole plate shall be lubricated with a lubricant that is approved by the bearing manufacturer.



NEOPRENE ELASTOMERIC PAD

* The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

GENERAL NOTES:

- Design coefficient of friction equals 0.06.
- The 2" diameter resin anchor system shall have a minimum pullout strength of 33,600 lbs in concrete with f'c = 4,000 psi.
- The contractor shall use one of the qualified resin anchor systems in accordance with Sec. 1039.
- Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Type N PTFE Bearing.
- The minimum embedment depth in concrete with f'c = 4000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".
- Anchor bolts shall be at the center of slotted hole at 60°F. Bearing position shall be adjusted .20" for each 10° fall or rise in temperature at installation.
- All structural steel for the anchors bolts and heavy hexagon nuts shall be coated with a minimum of two coats of inorganic zinc primer (5 mils total.)
- Neoprene Elastomeric Pads shall be 70 Durometer.
- Structural steel for sole plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum. The stainless steel plate shall be protected from any coating.
- Structural steel for retainer plate may be ASTM 709 Grade 50 or ASTM 709 Grade 36 and shall be galvanized in accordance with SEC 1081.
- Type N PTFE Bearings shall be in accordance with Sec 716.
- PTFE surface shall be fabricated as a single piece. Splicing will not be permitted.

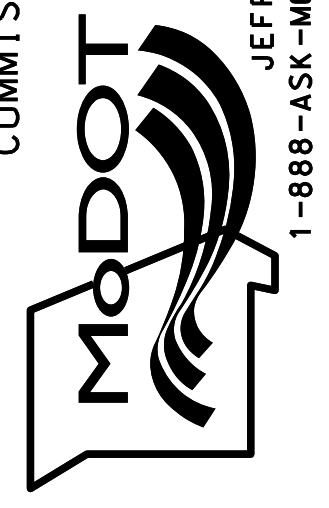
PTFE SLIDING BEARINGS														
	Girder	Angle "Z"	A	B	C	D	E	F	G	H	J	L		
End Bent No. 1	G1	42°-35'-59"	11 1/2"	7 1/16"	8 1/2"	9 1/8"	7 3/4"	2'-5"	1'-11"	6 5/16"	1"	2'-4"	5 1/2"	
	G2	42°-46'-48"	11 1/2"	7 1/16"	8 1/2"	9 1/8"	7 3/4"	2'-5"	1'-11"	6 5/16"	1"	2'-4"	5 1/2"	
	G3	43°-48'-08"	11 1/2"	7 1/4"	8 1/16"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G4	43°-45'-38"	11 1/2"	7 1/4"	8 1/16"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G5	43°-43'-09"	11 1/2"	7 1/4"	8 1/16"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G6	43°-35'-16"	11 1/2"	7 3/16"	8 5/8"	9"	7 11/16"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G7	43°-22'-49"	11 1/2"	7 3/16"	8 5/8"	9 1/16"	7 11/16"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G8	43°-10'-14"	11 1/2"	7 1/8"	8 3/8"	9 1/16"	7 11/16"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G9	42°-57'-30"	11 1/2"	7 1/8"	8 3/8"	9 1/16"	7 11/16"	7 3/4"	2'-5"	1'-11"	7 5/16"	1"	2'-4"	5 1/2"
	G10	43°-49'-42"	11 1/2"	7 1/4"	8 1/16"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	6 5/16"	1"	2'-4"	5 1/2"
End Bent No. 9	G1	42°-37'-11"	12 1/2"	7 3/16"	9 3/4"	10 3/8"	8"	2'-7"	2'-1"	6 9/16"	1 3/4"	2'-6"	6 1/2"	
	G2	42°-50'-07"	12 1/2"	7 3/16"	9 3/4"	10 3/8"	8"	2'-7"	2'-1"	6 9/16"	1 3/4"	2'-6"	6 1/2"	
	G3	43°-02'-55"	11 1/2"	7 1/8"	8 9/16"	9 1/16"	7 3/4"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G4	43°-18'-06"	11 1/2"	7 3/16"	8 5/8"	9 1/16"	7 1/16"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G5	43°-33'-05"	11 1/2"	7 3/16"	8 5/8"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G6	43°-47'-53"	11 1/2"	7 1/4"	8 1/16"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G7	44°-02'-29"	11 1/2"	7 1/4"	8 1/16"	9"	7 5/8"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G8	44°-16'-55"	11 1/2"	7 1/8"	8 3/8"	8 15/16"	7 9/16"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G9	44°-31'-10"	11 1/2"	7 3/8"	8 13/16"	8 7/8"	7 7/2"	7 3/4"	2'-5"	1'-11"	7 9/16"	1"	2'-4"	5 1/2"
	G10	44°-40'-00"	12 1/2"	7 3/16"	10 1/16"	10 1/8"	7 11/16"	7 3/4"	2'-7"	2'-1"	6 9/16"	1 3/4"	2'-6"	6 1/2"

TYPE N PTFE BEARINGS AT END BENTS

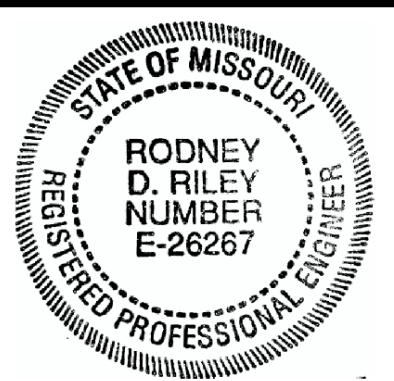
Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 22



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



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DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO DISTRICT BR SHEET NO. 6

COUNTY ST. LOUIS JOB NO. J613187 CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102 1-888-ASK-MODDOT (1-888-275-6636)

MO DOT

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

JACOBS

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General Notes:

Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"Ø bolts shall be ASTM A307, except as shown.

Shop drawings will not be required for the slab drains and the bracket assembly.

The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

(1) See front sheet for slab thickness.

Notes for Steel Drain:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:

Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

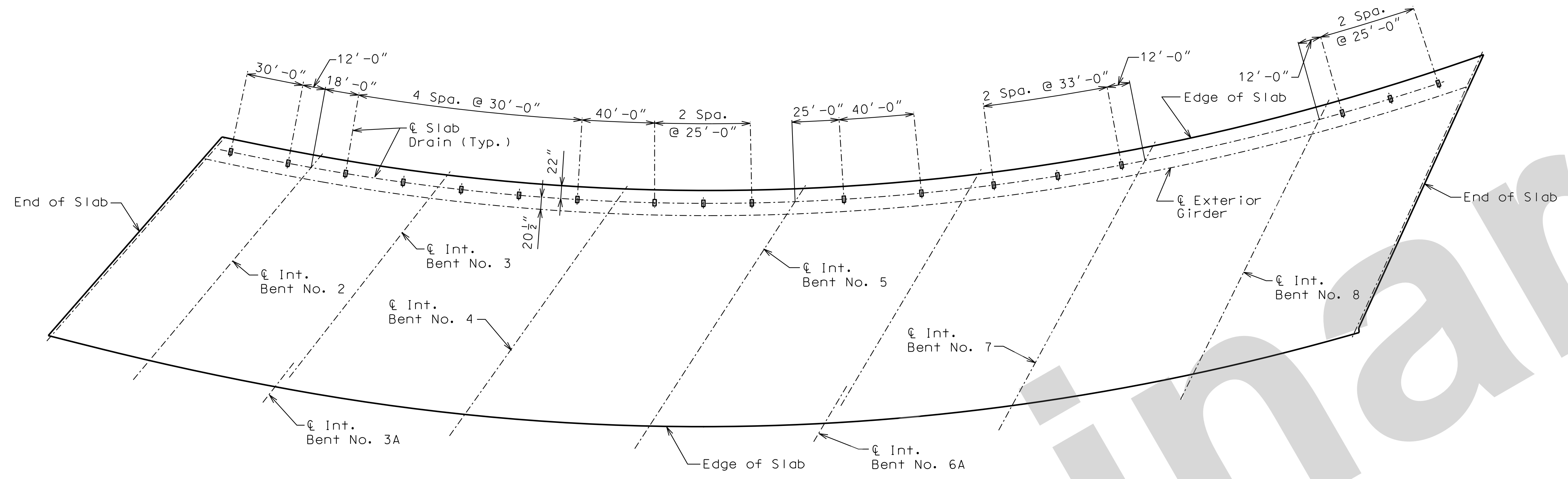
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

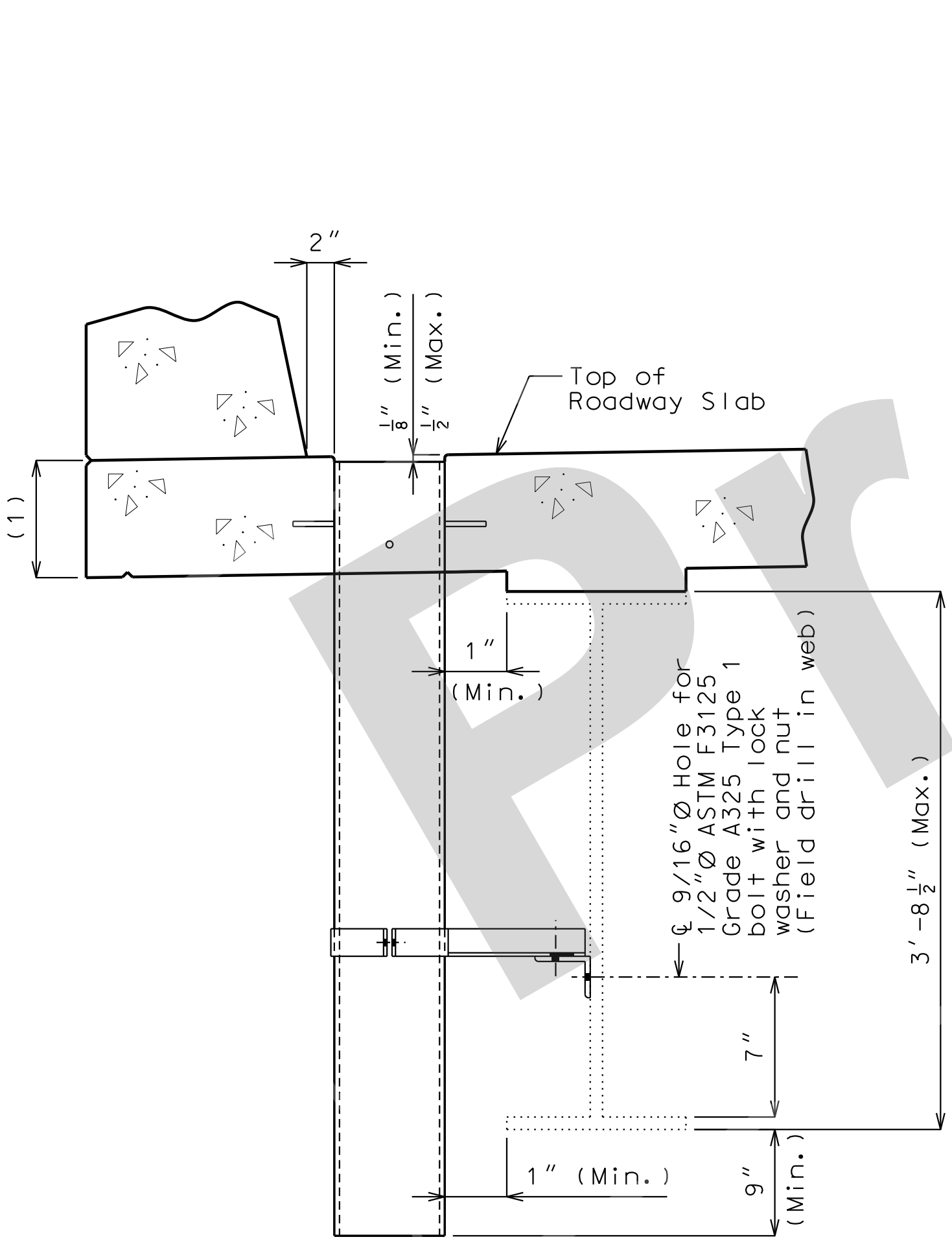
The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

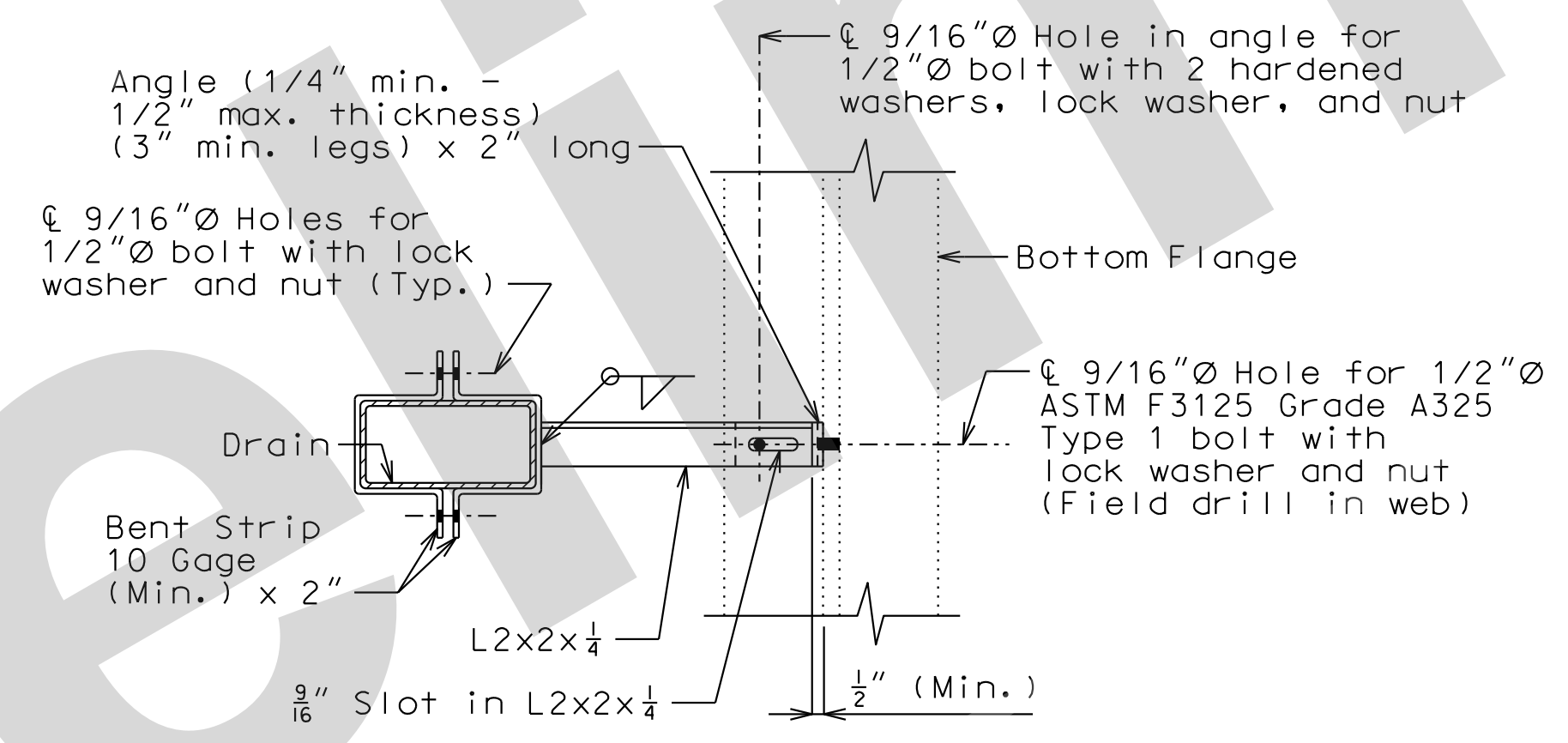
At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be recommended by the manufacturer to ensure a smooth, chip free cut.



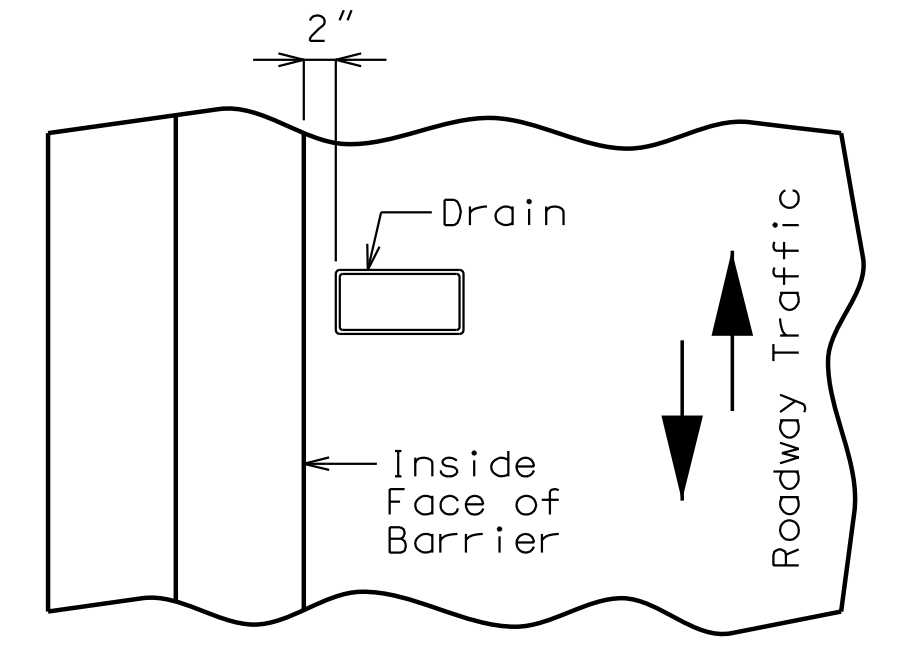
PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS



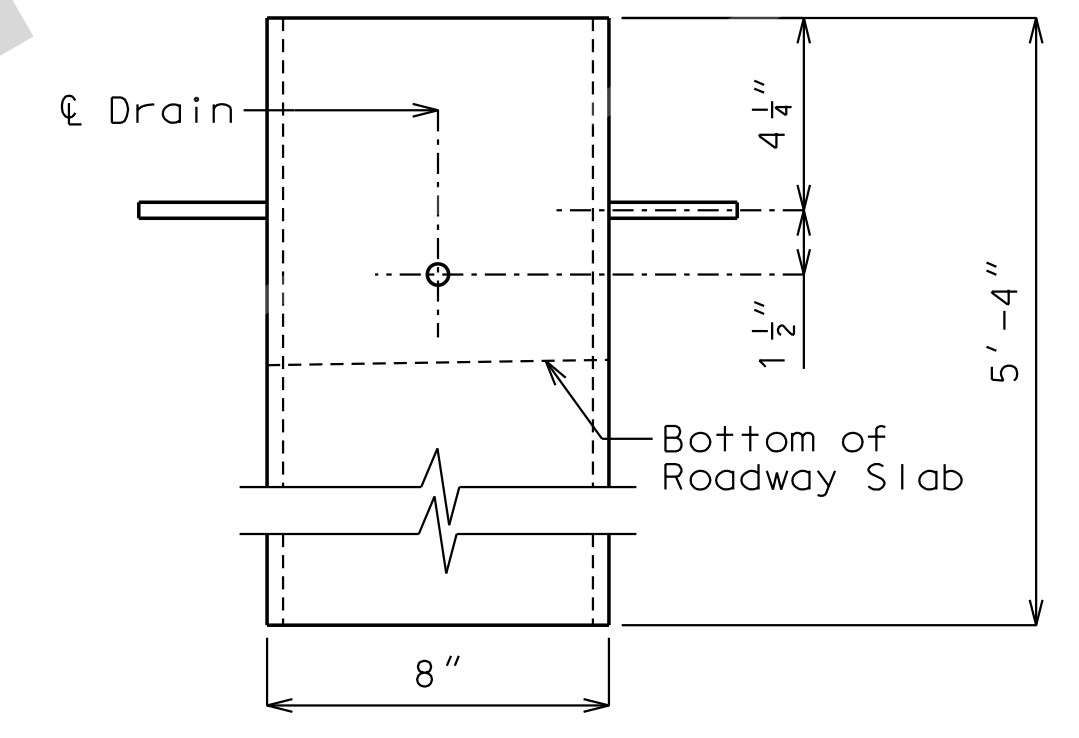
PART SECTION NEAR DRAIN



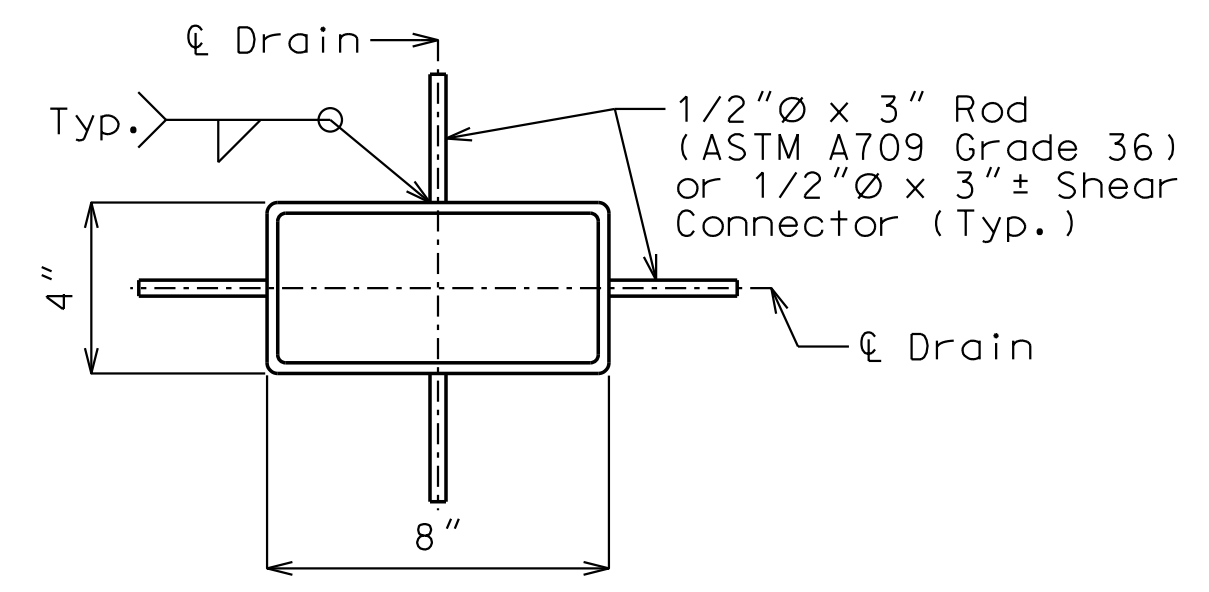
PART SECTION SHOWING BRACKET ASSEMBLY



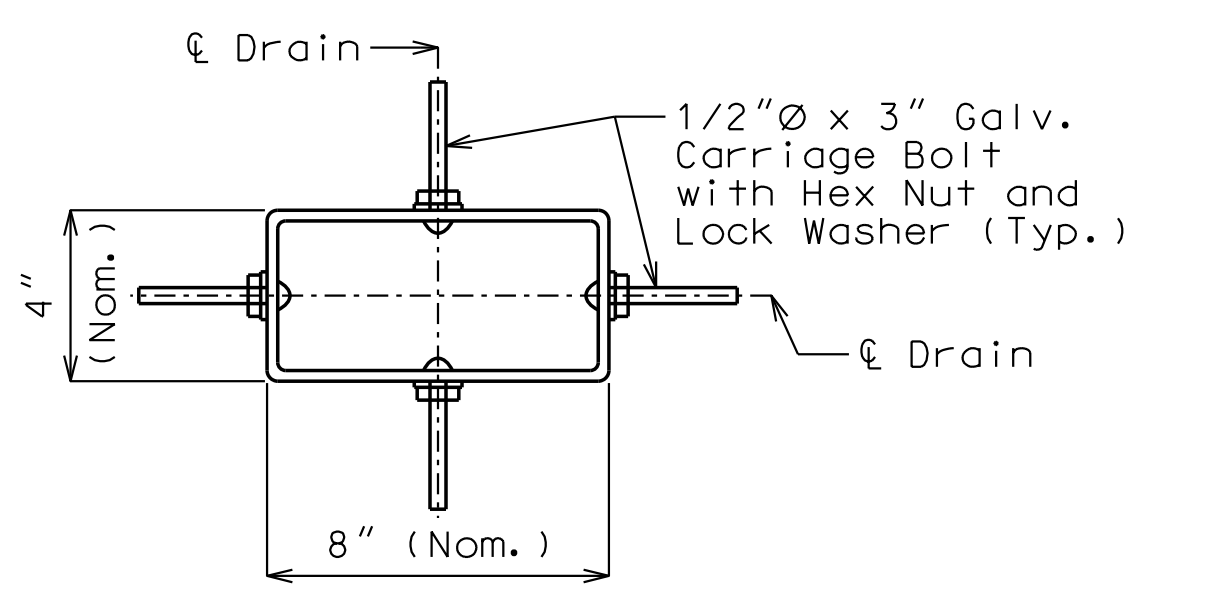
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION

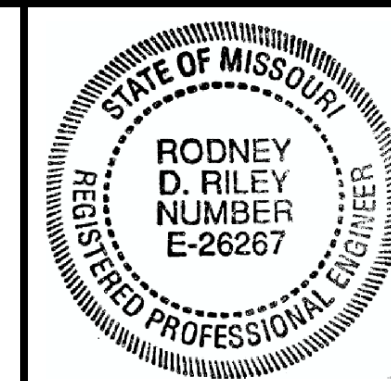


PLAN OF FRP DRAIN OPTION

SLAB DRAINS

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 22



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 8

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

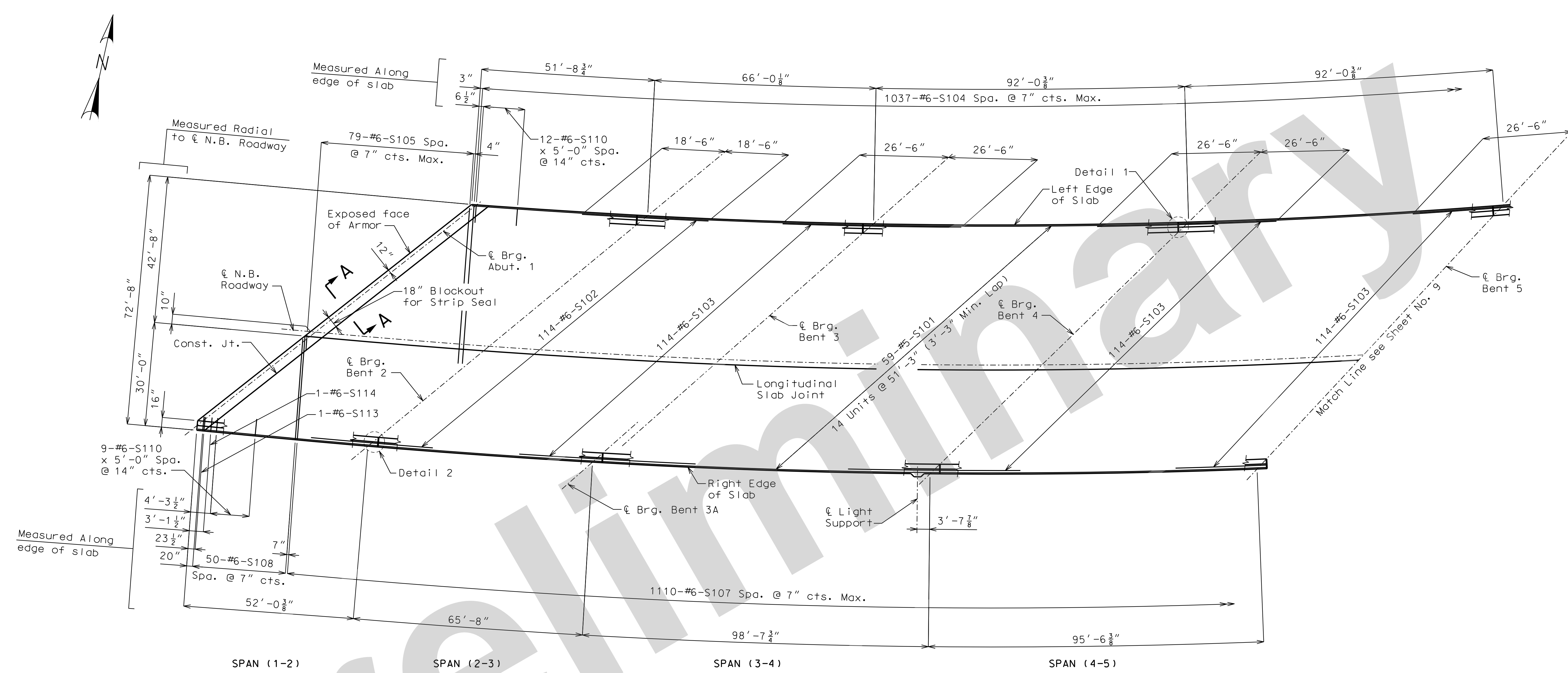
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

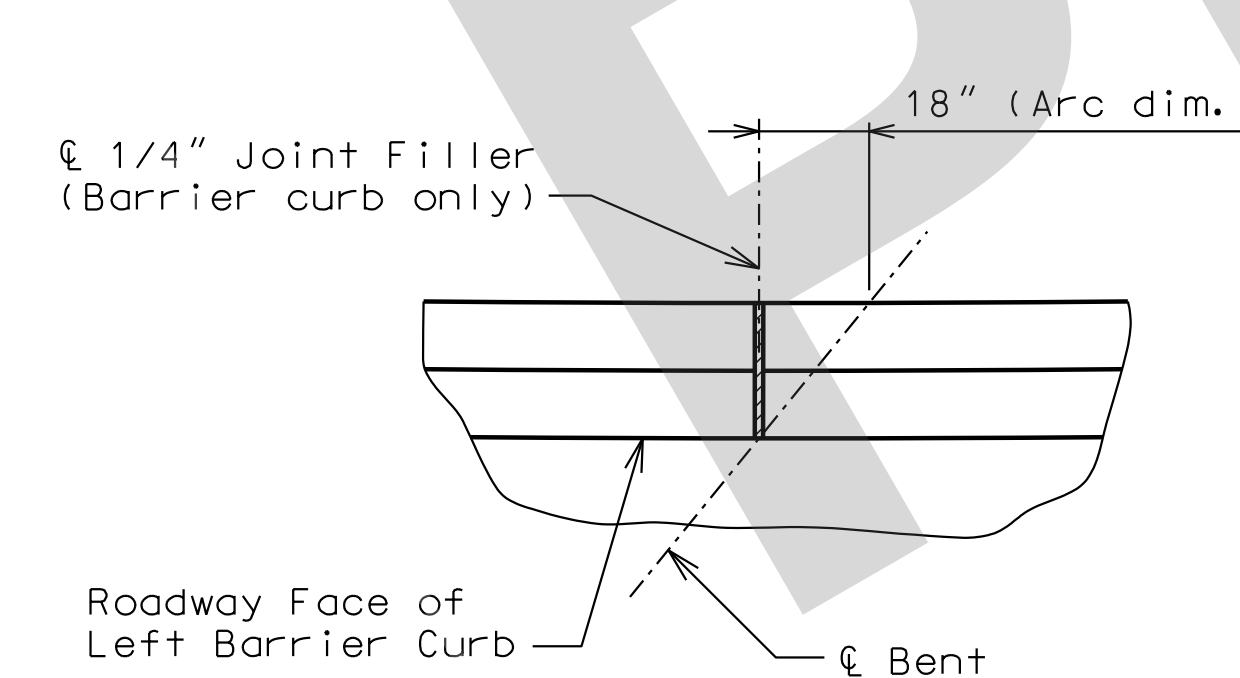
901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

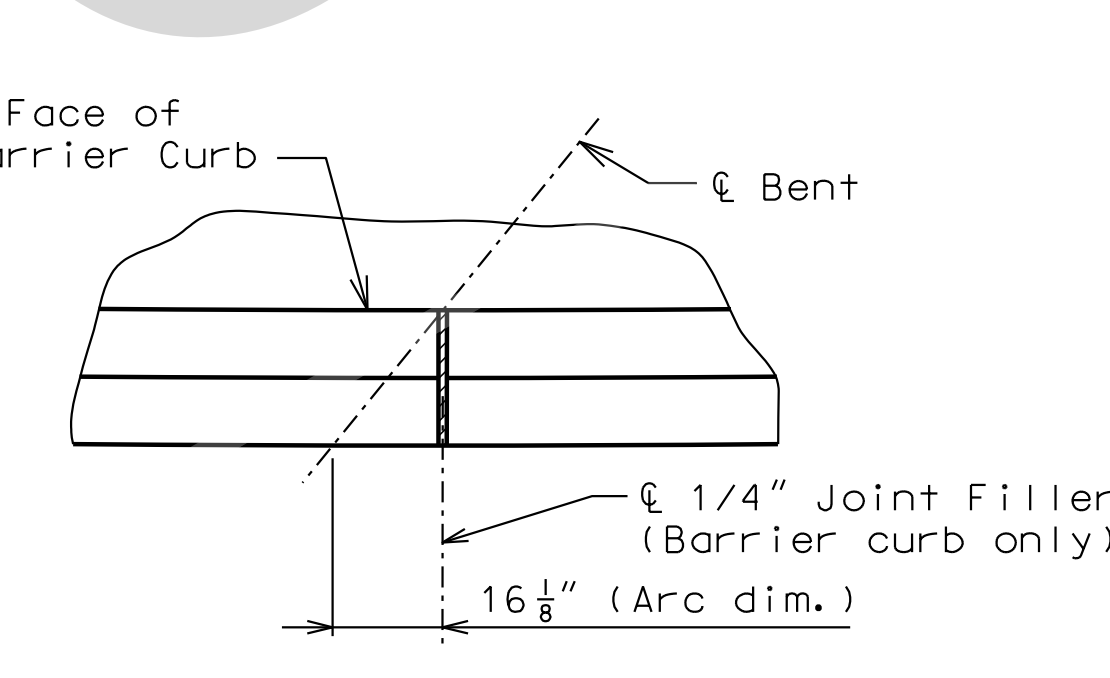
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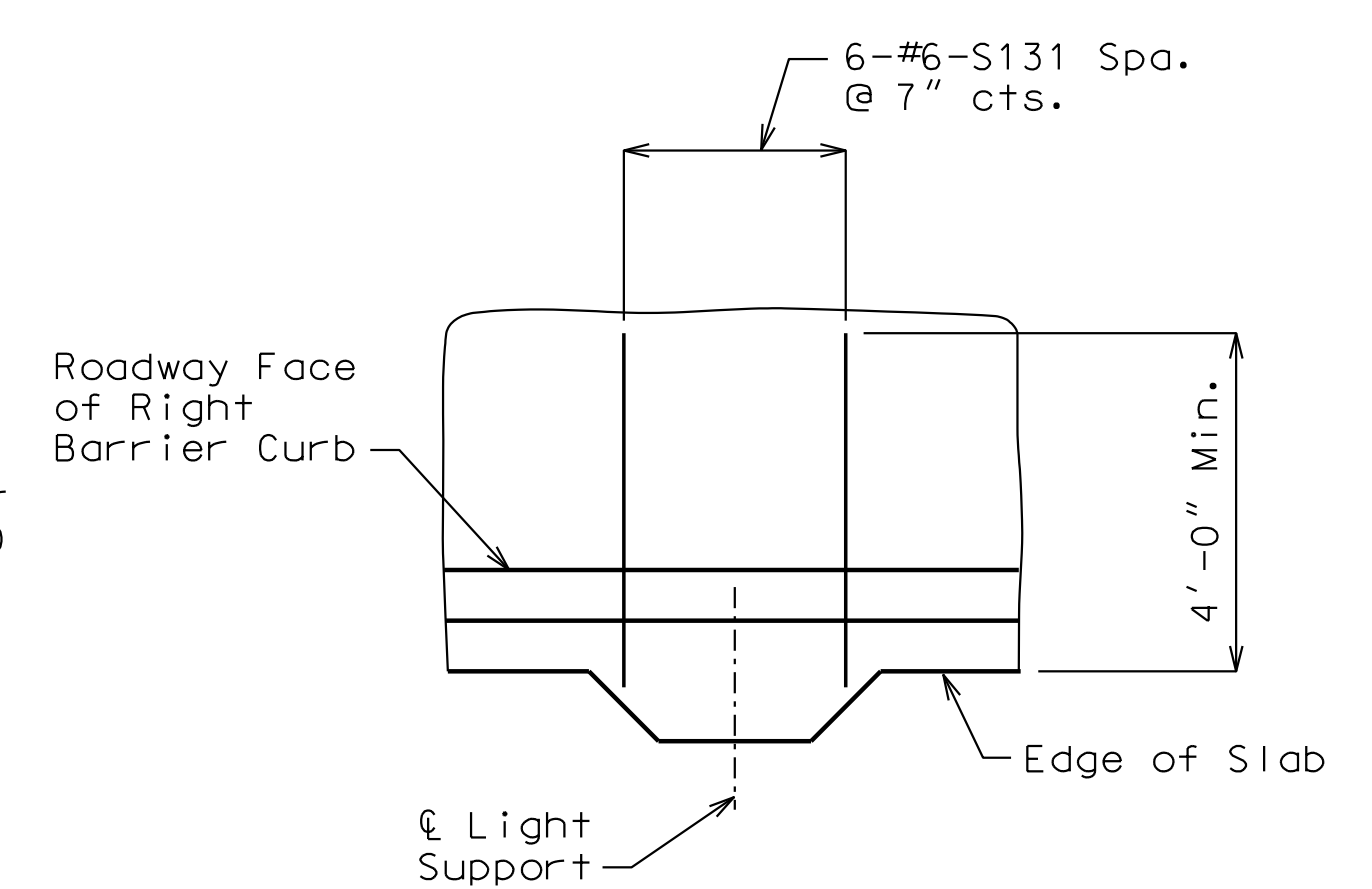
PART PLAN SHOWING TOP SLAB REINFORCEMENT



DETAIL 1



DETAIL 2



ADDITIONAL BARS AT LIGHT SUPPORTS

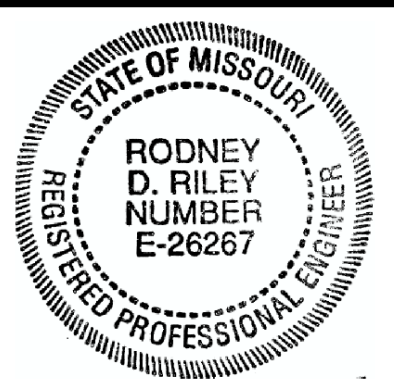
PLAN OF SLAB SHOWING REINFORCEMENT

- Notes:
- For General Notes, see Sheet No. 1.
 - Longitudinal dimensions shown are horizontal arc dimensions.
 - Transverse reinforcement to be placed radially and spaced along edge of slab as shown.
 - For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 - For Section thru Haunch, see Sheet No. 1.
 - For Location of Slab Drains, see Sheet No. 6.
 - For Details of Expansion Device, see Sheet No. 7.
 - For Section A-A, see Sheet No. 9.
 - For Bottom Slab Reinforcement Plans, see Sheet No. 10.
 - For Slab Pouring sequence, see Sheet No. 11.
 - For Details of Safety Barrier Curb, see Sheets No. 13 and 14.
 - For Light Support Details, see Sheet No. 14.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 22



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 9

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

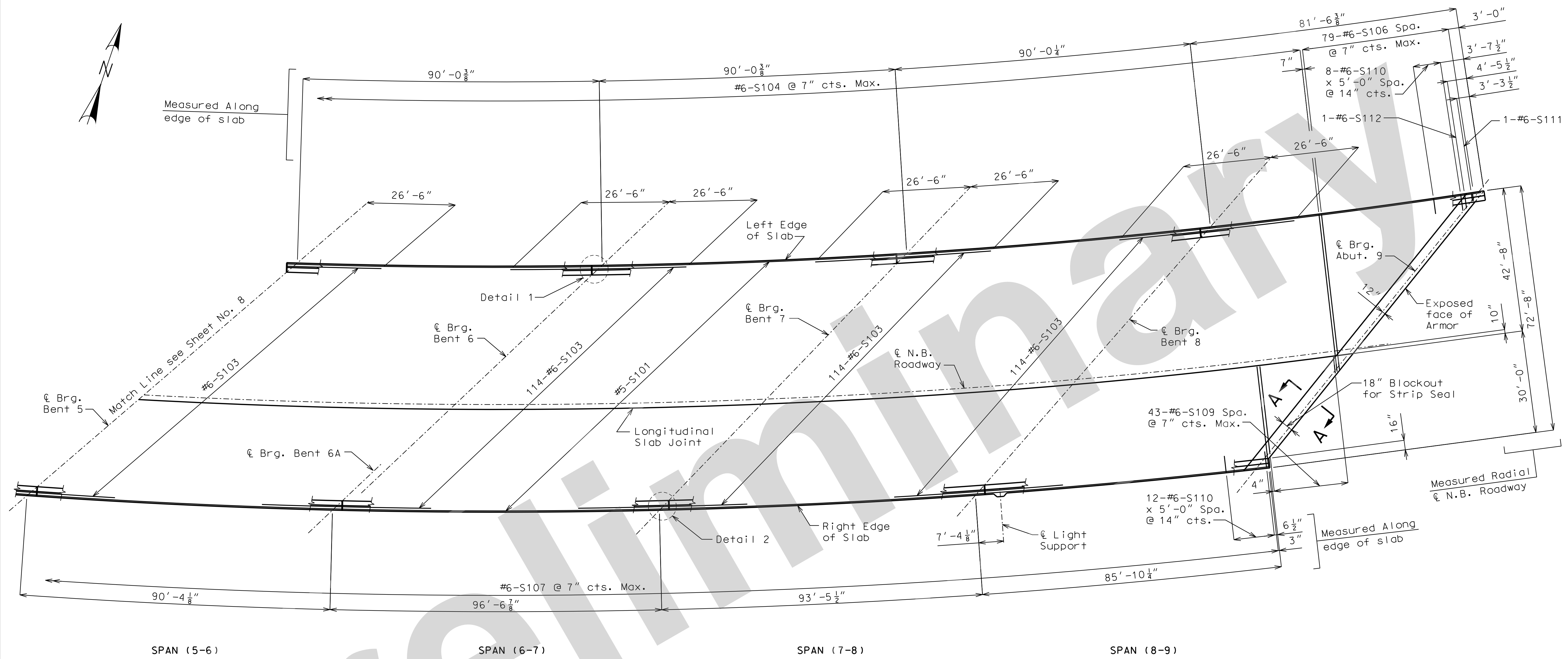
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

ST. LOUIS, MISSOURI 63102-2121

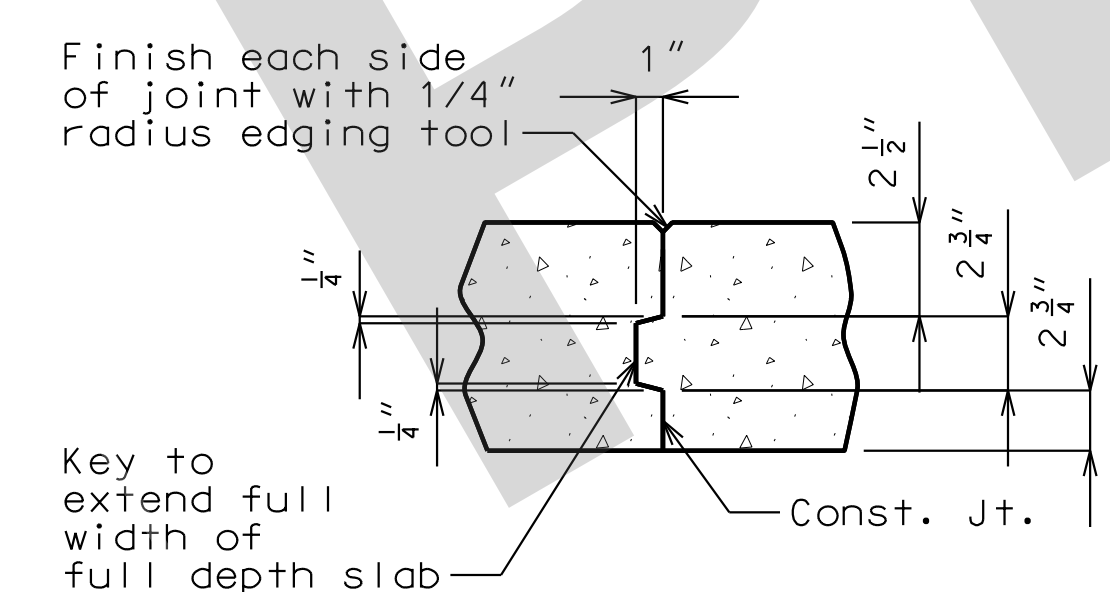
CERTIFICATE OF AUTHORITY #00704

REV.

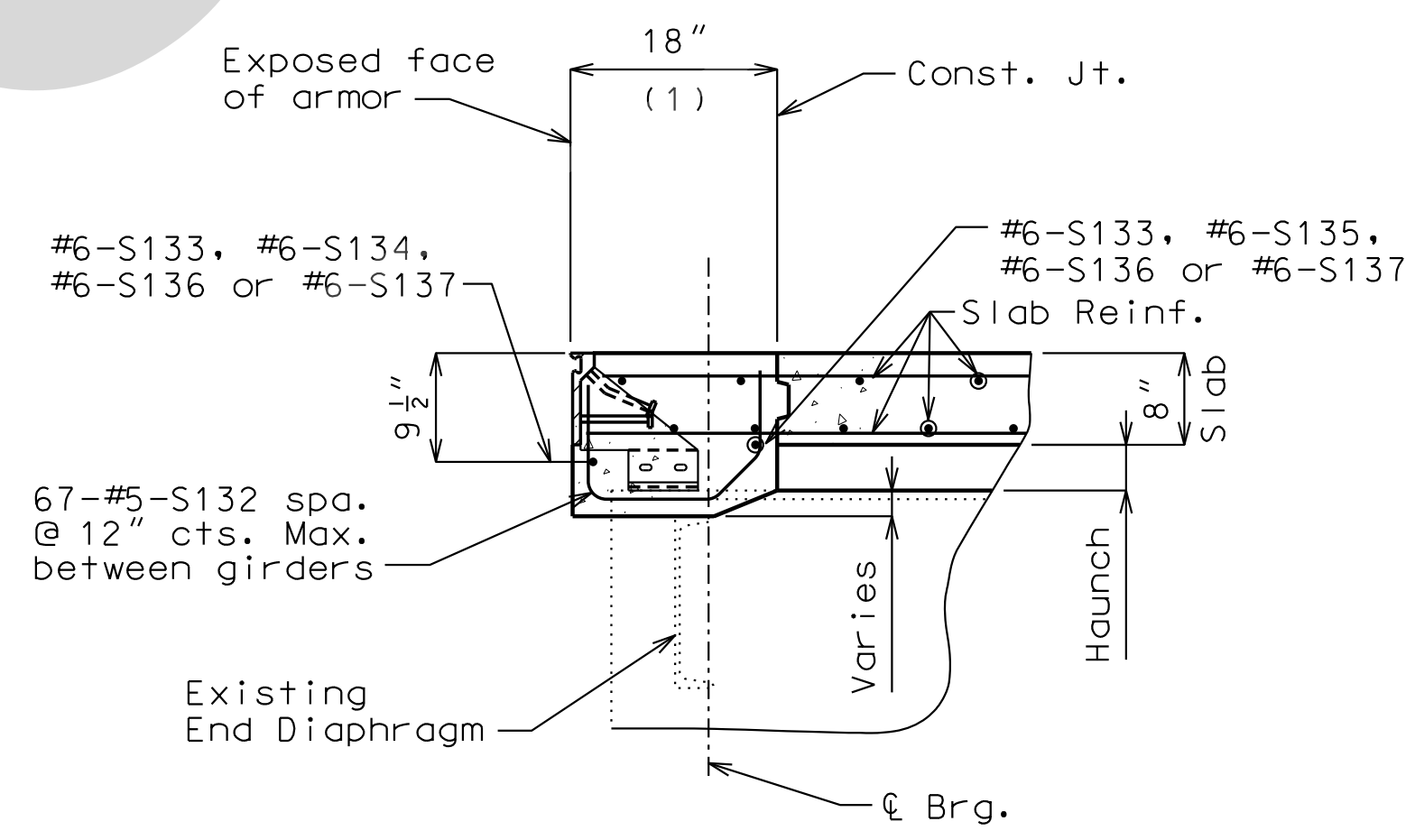


PART PLAN SHOWING TOP SLAB REINFORCEMENT

- Notes:
- For General Notes, see Sheet No. 1.
 - Longitudinal dimensions shown are horizontal arc dimensions.
 - Transverse reinforcement to be placed radially and spaced along edge of slab as shown.
 - For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 - For Section thru Haunch, see Sheet No. 1.
 - For Location of Slab Drains, see Sheet No. 6.
 - For Details of Expansion Device, see Sheet No. 7.
 - For Details 1 and 2, see Sheet No. 8.
 - For Bottom Slab Reinforcement Plans, see Sheet No. 10.
 - For Slab Pouring sequence, see Sheet No. 11.
 - For Details of Safety Barrier Curb, see Sheets No. 13 and 14.
 - For Light Support Details, see Sheet No. 14.



LONGITUDINAL SLAB JOINT



SECTION A-A

(1) Concrete shall be Ultra-high Performance Concrete (UHPC). See Special Provisions.

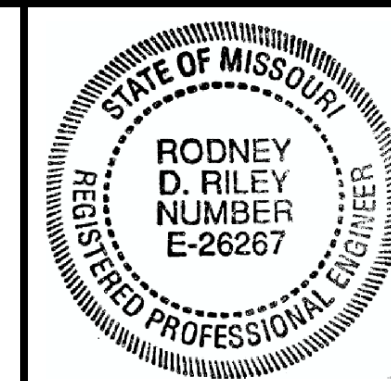
PLAN OF SLAB SHOWING REINFORCEMENT

Detailed June 2021

Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 9 of 22



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

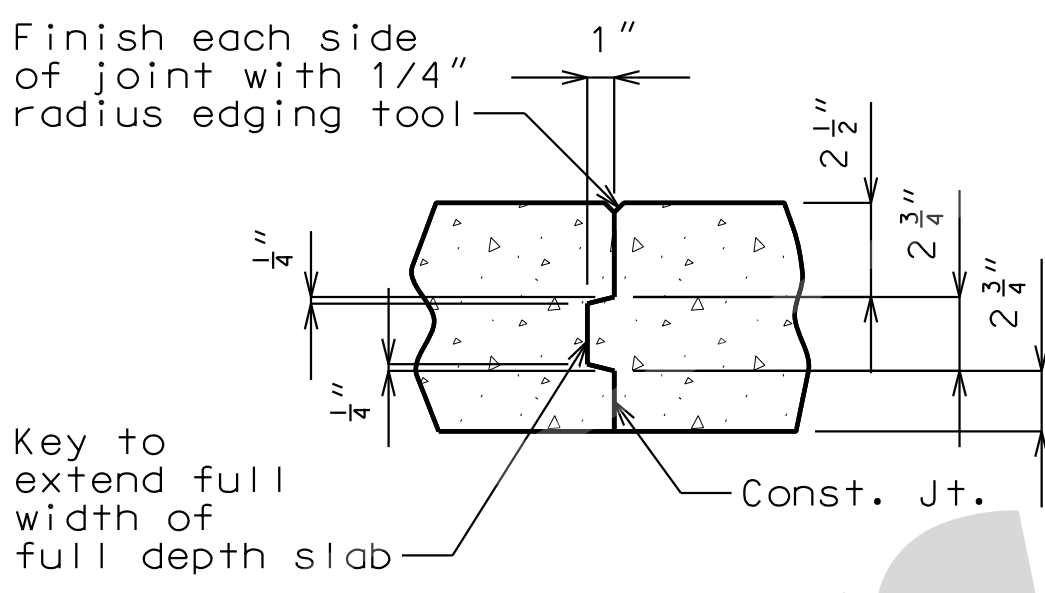
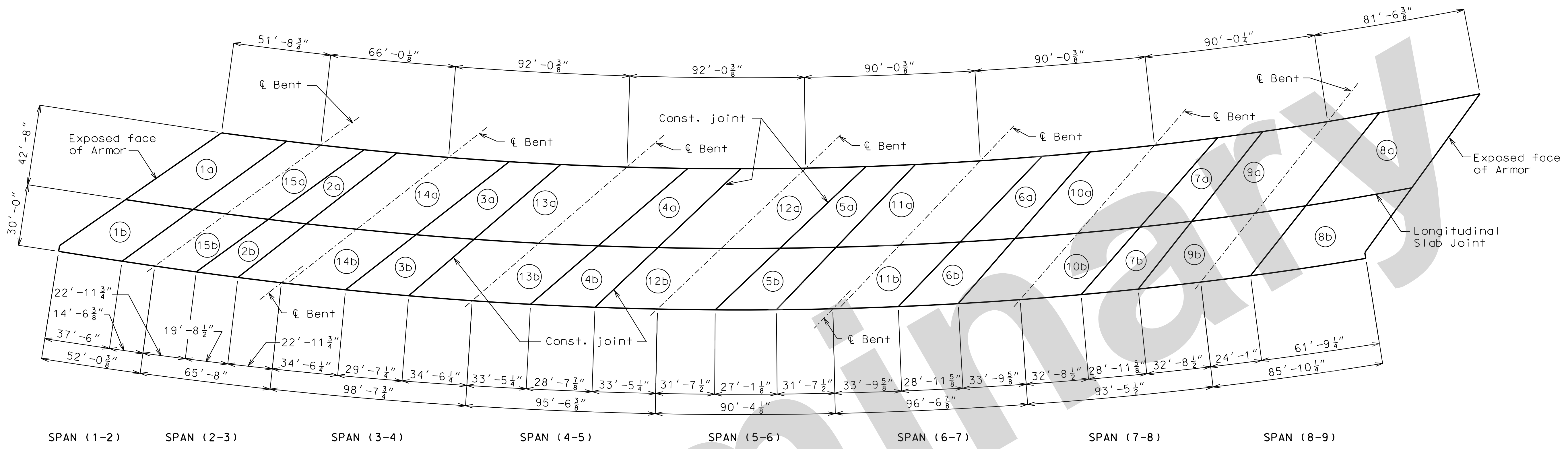
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



SLAB CONSTRUCTION JOINT

	Sequence of Pours															With Retarder		Without Retarder			
	Direction															a	b	a	b		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
Basic Sequence	Either Direction															25	25	25	25		
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.																					
Alternate A Pours	1 + 15 + 2	14 + 3	13 + 4	12 + 5	11 + 6	10 + 7	9 + 8									30	25	49	34		
	End to 14	2 to 13	3 to 12	4 to 11	5 to 10	6 to 9	7 to End														
Alternate B Pours	1 + 15 + 2	14 + 3 + 13 + 4	12 + 5 + 11 + 6	10 + 7 + 9 + 8												30	25	49	34		
	End to 14	2 to 12	4 to 10	6 to End																	
Alternate C Pours	1 + 15 + 2 + 14 + 3 + 13 + 4	12 + 5 + 11 + 6 + 10 + 7 + 9 + 8																30	25	49	34
	End to 12	4 to End																			
Alternate D Pours	1 + 15 + 2 + 14 + 3 + 13 + 4 + 12 + 5 + 11 + 6 + 10 + 7 + 9 + 8																30	25	49	34	
	End to End																				

Notes:

For General Notes, see Sheet 1.

The contractor shall determine dead load deflections and haunching based on field measurements and / or existing bridge plans and these may be adjusted based on the difference between the new and existing dead load weights.

The contractor shall pour and satisfactorily finish the slab pour at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

The longitudinal slab joints may be omitted with the approval of the engineer. When the longitudinal slab joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.7.

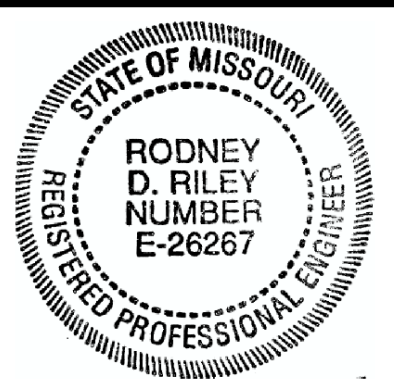
For Longitudinal Slab Jt. Detail, see Sheet No. 9.

SLAB POURING SEQUENCE

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 11 of 22



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 15

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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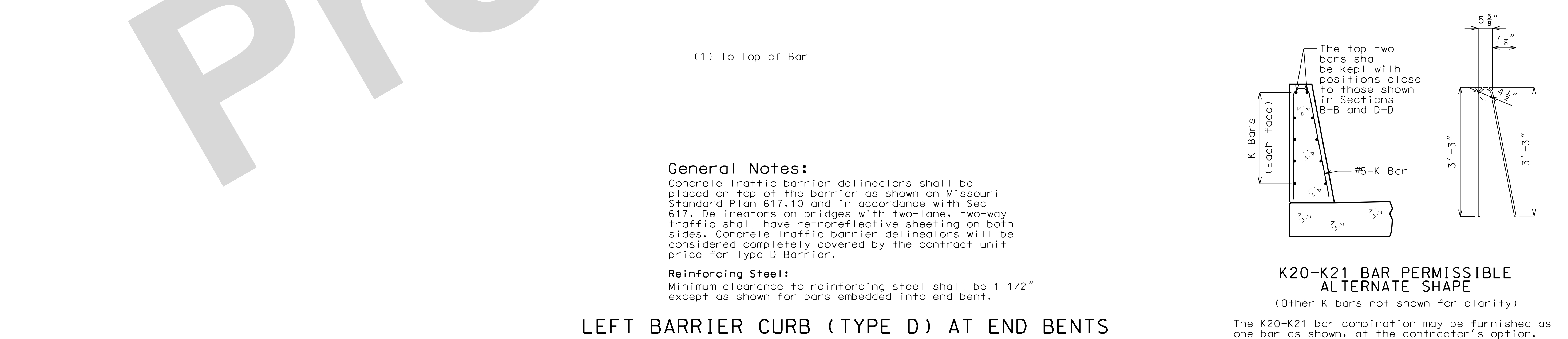
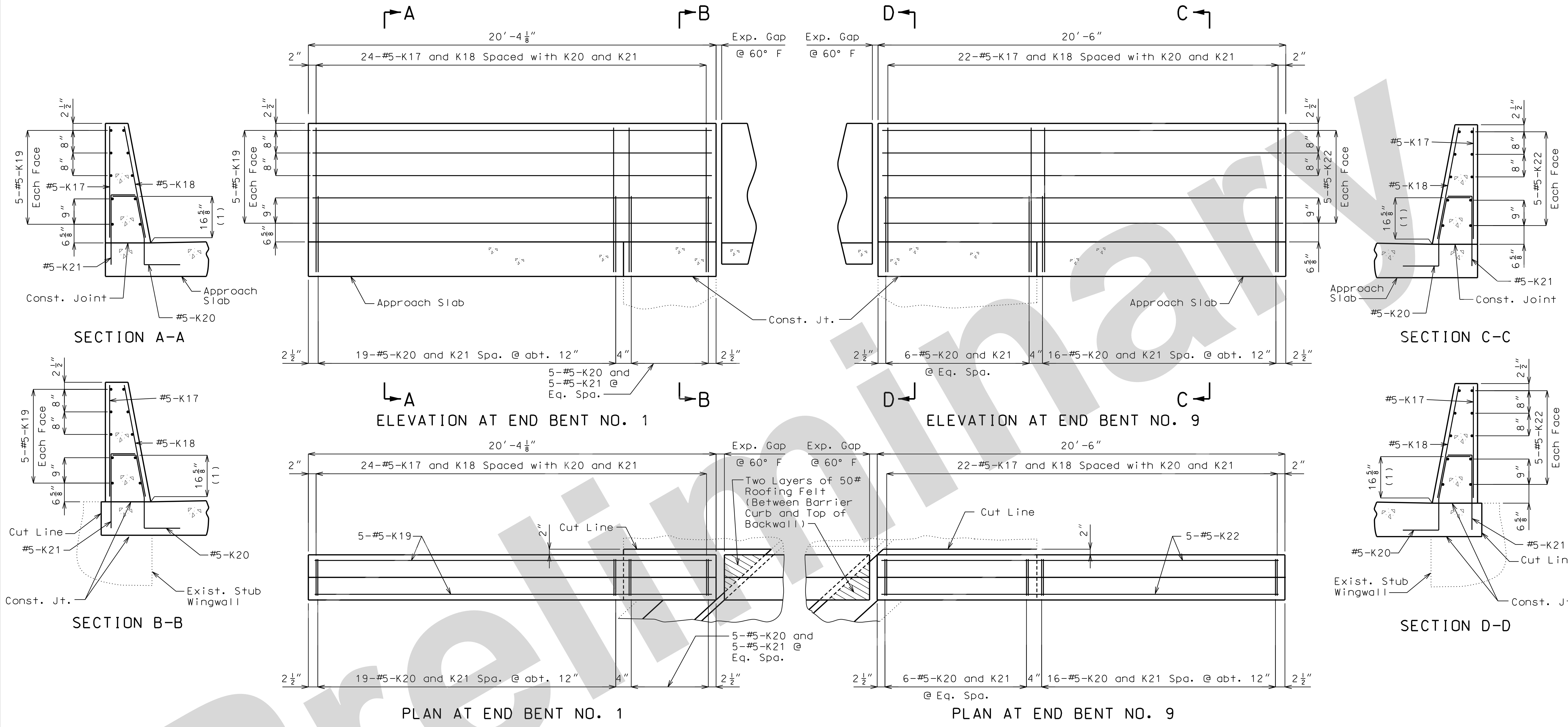
DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION



General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

K20-K21 BAR PERMISSIBLE ALTERNATE SHAPE

(Other K bars not shown for clarity)

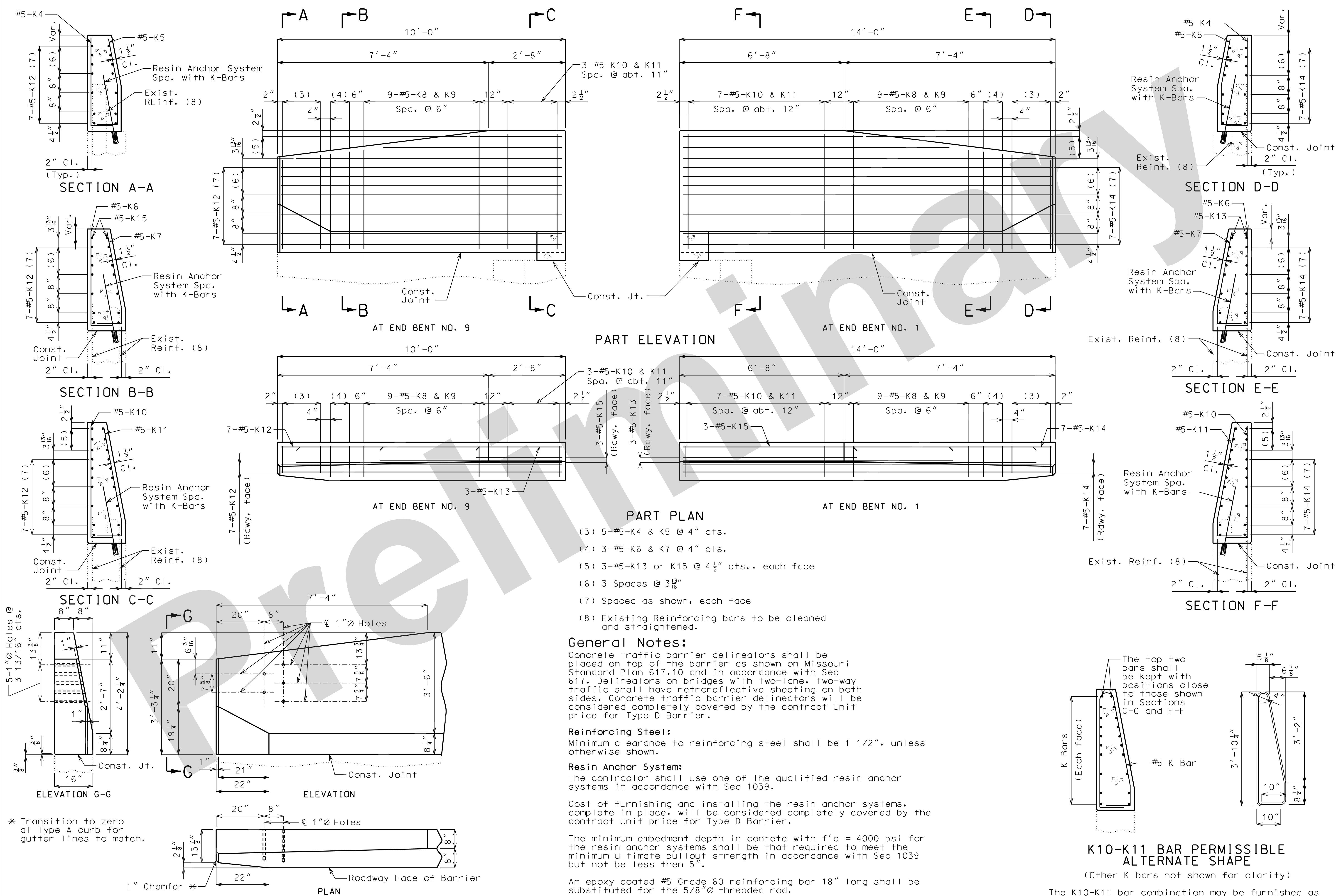
The K20-K21 bar combination may be furnished as one bar as shown, at the contractor's option.

LEFT BARRIER CURB (TYPE D) AT END BENTS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 22



* Transition to zero at Type A curb for gutter lines to match.

- (3) 5-#5-K4 & K5 @ 4" cts.
- (4) 3-#5-K6 & K7 @ 4" cts.
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face
- (6) 3 Spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) Existing Reinforcing bars to be cleaned and straightened.

General Notes:
 Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

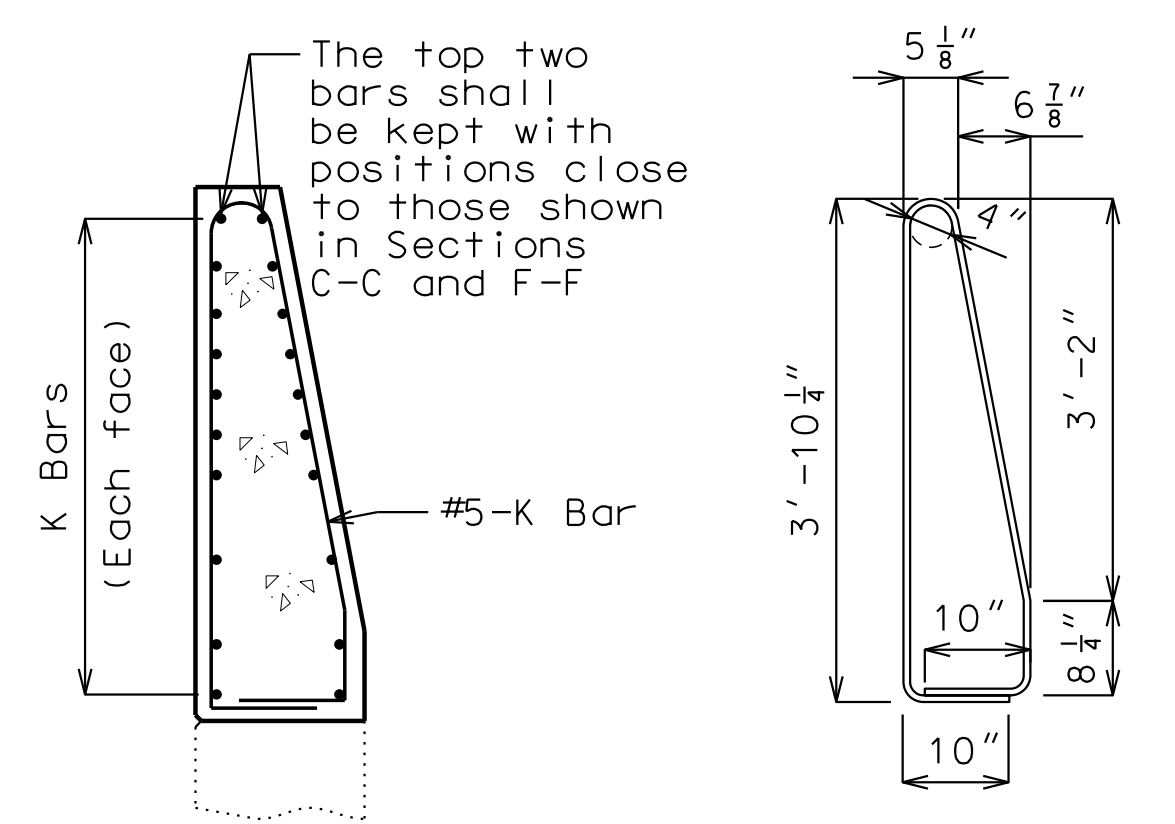
Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Resin Anchor System:
 The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.

The minimum embedment depth in concrete with f'c = 4000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar 18" long shall be substituted for the 5/8"Ø threaded rod.



K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE
 (Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

Detailed June 2021
 Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 22



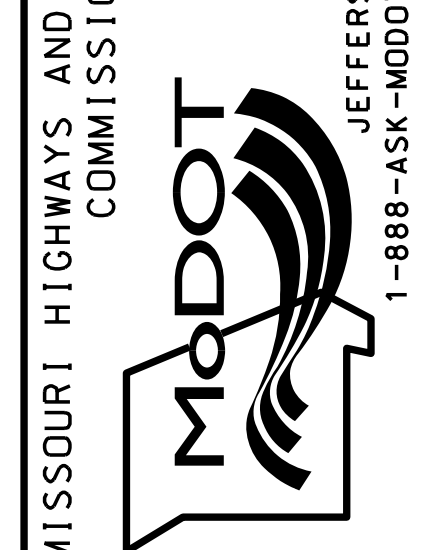
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 DATE PREPARED 05-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT BR SHEET NO. 16

COUNTY ST. LOUIS
 JOB NO. J613187
 CONTRACT ID.
 PROJECT NO.

BRIDGE NO. A10763

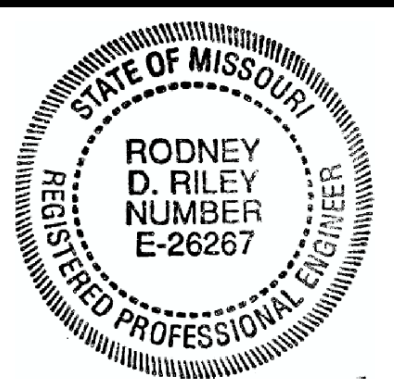
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



JACOBS
 601 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704

105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
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DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 19

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

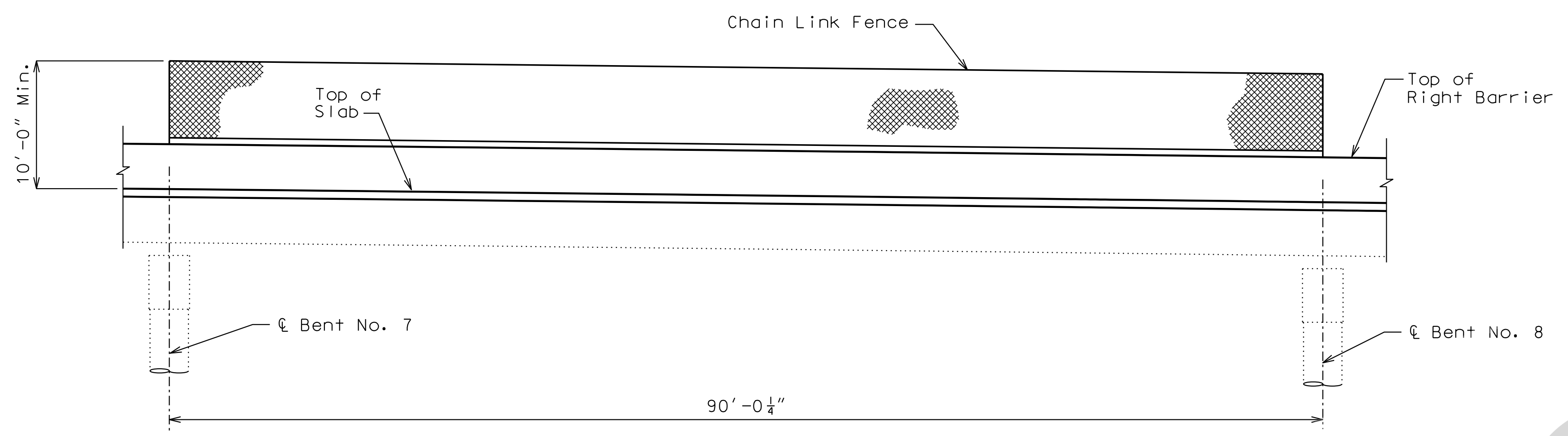
BRIDGE NO. A10763

DATE	DESCRIPTION

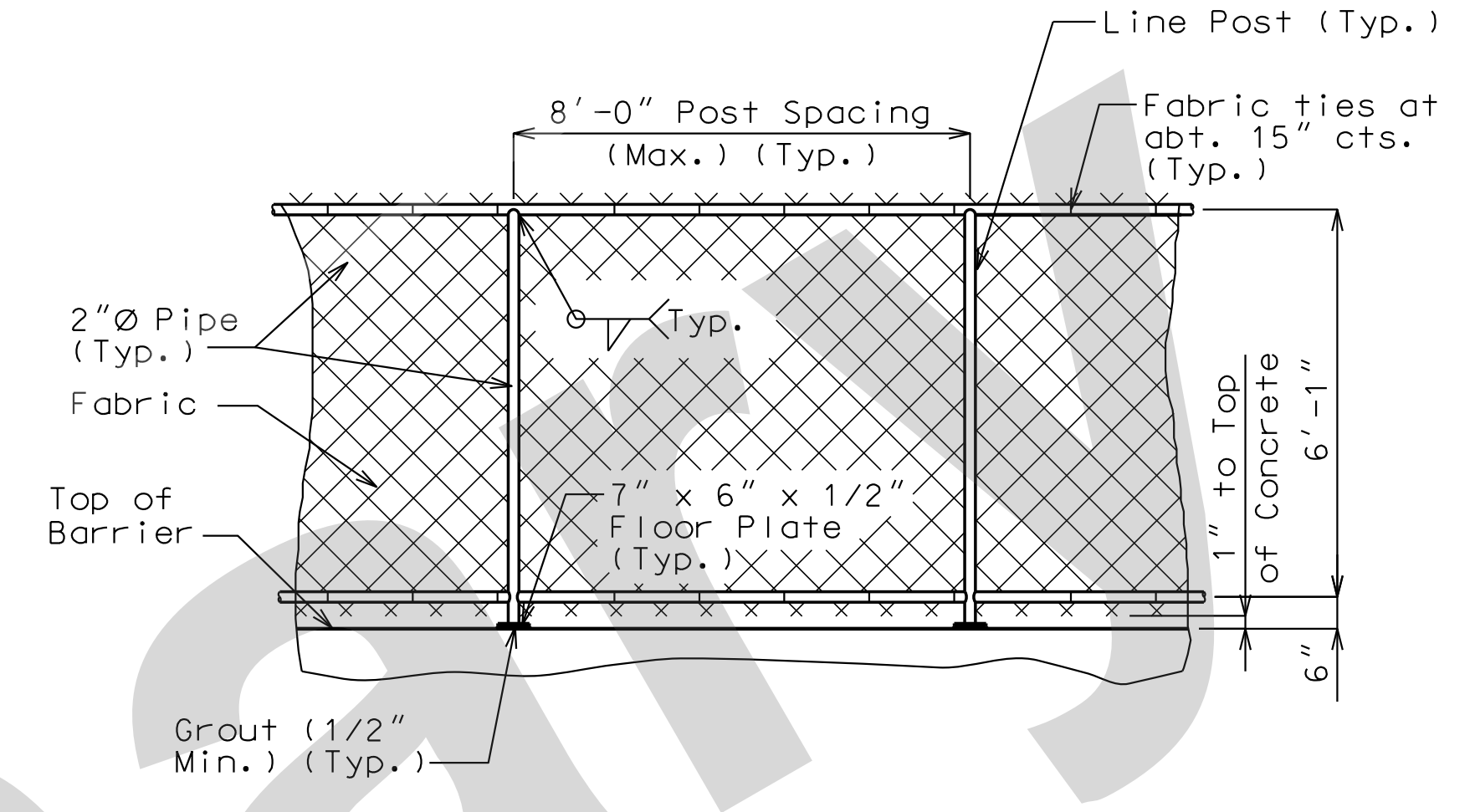
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704

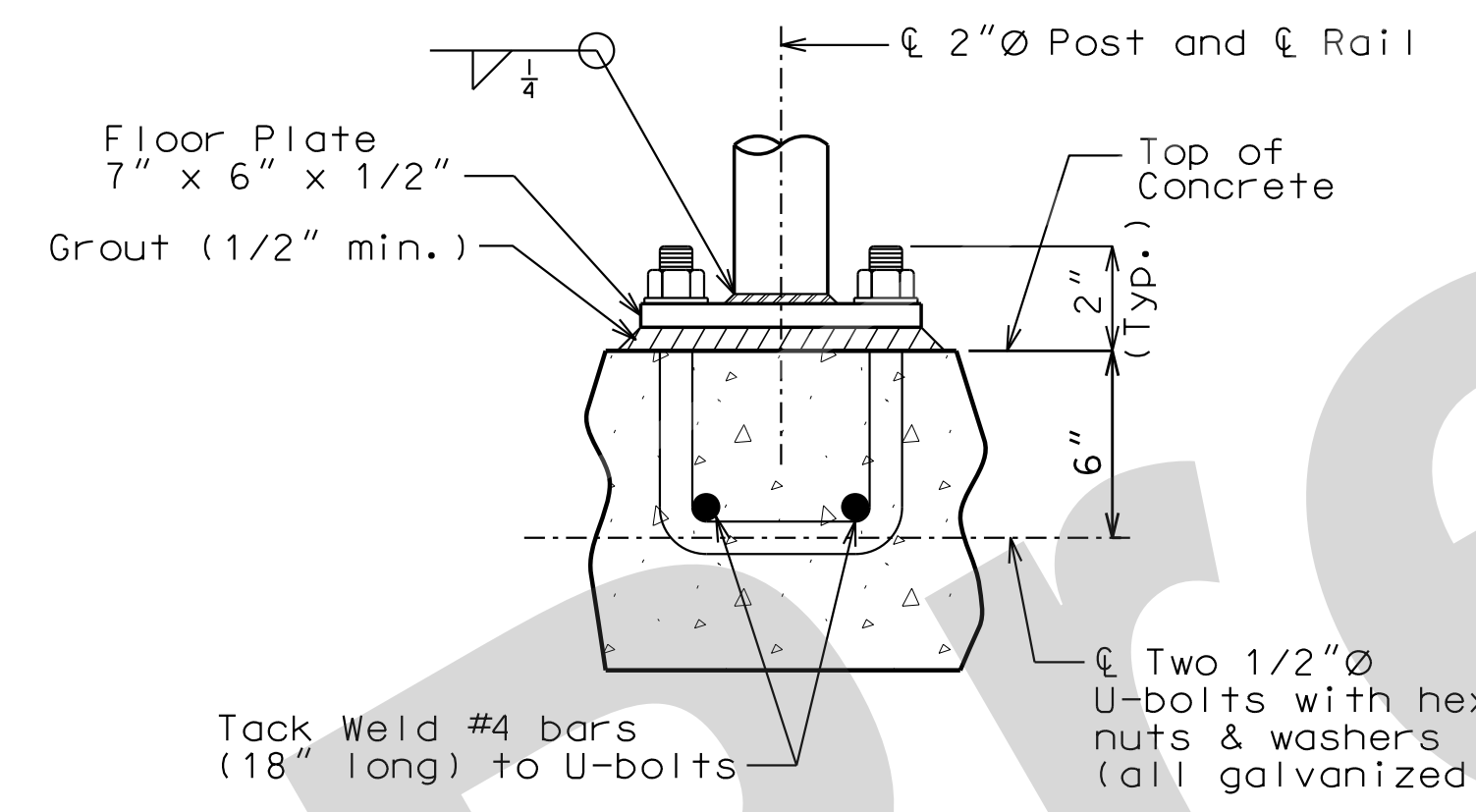
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



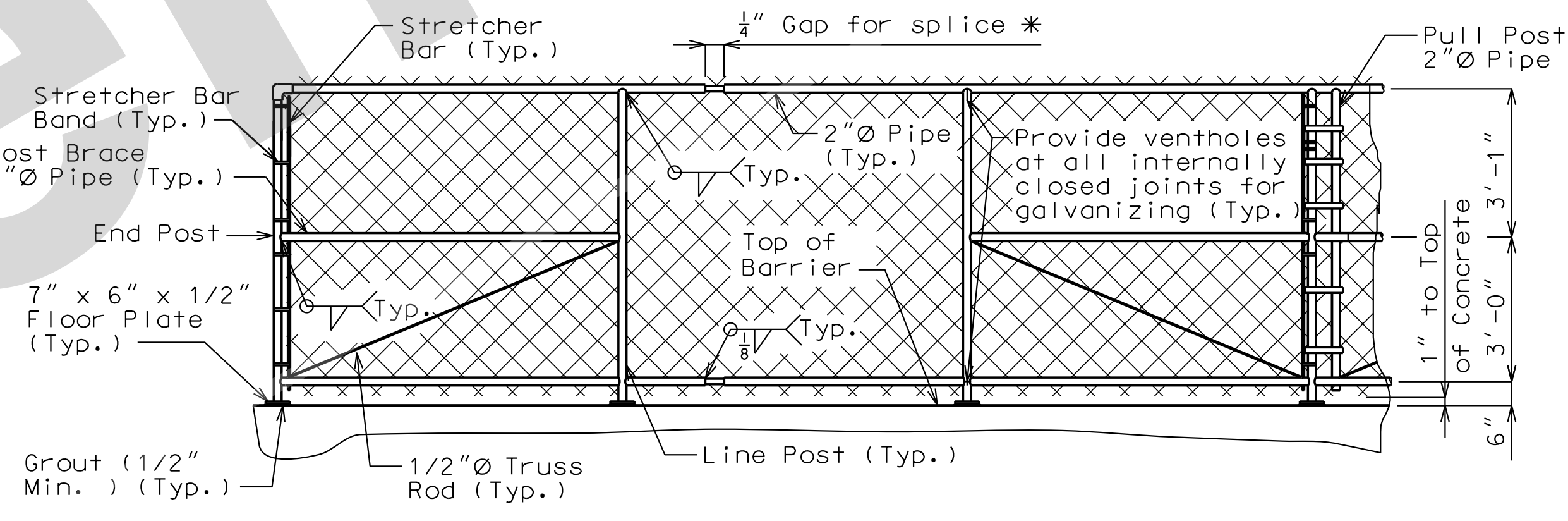
PART ELEVATION SHOWING CHAIN-LINK FENCE



ELEVATION SHOWING POST SPACING

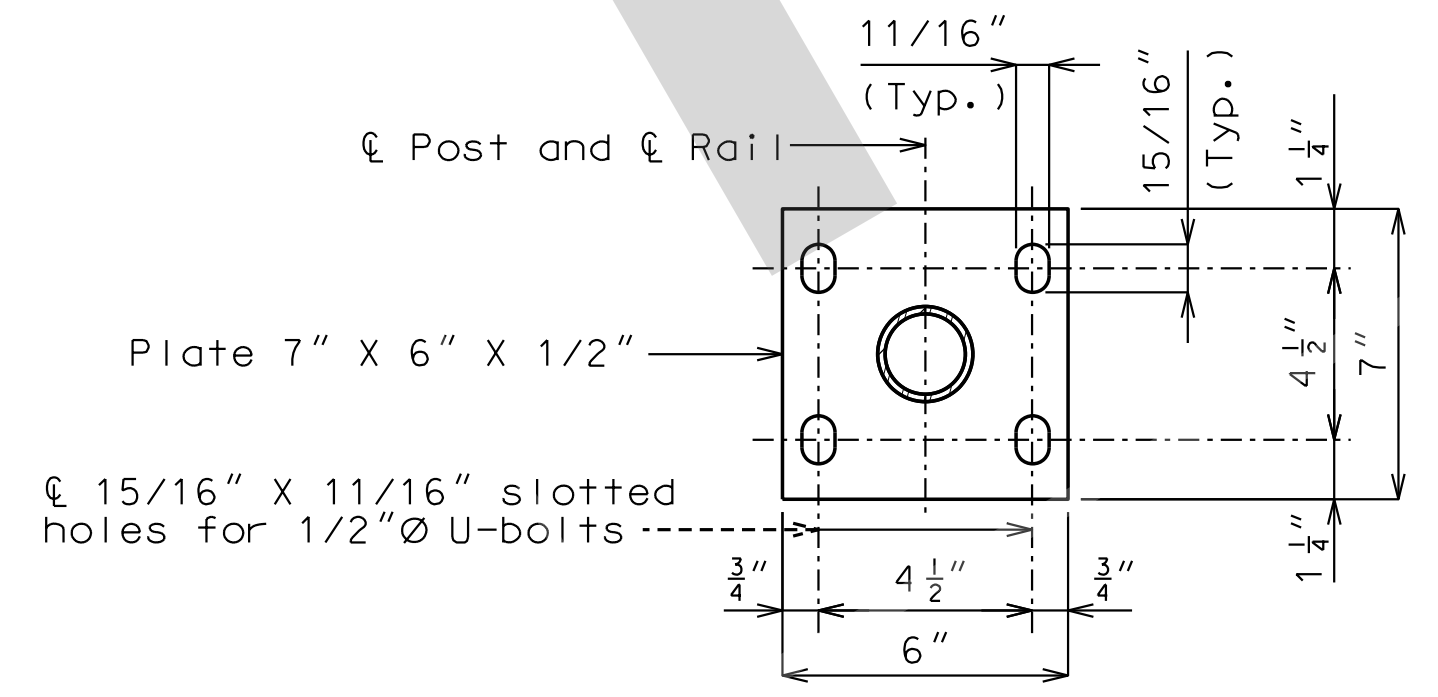


POST CONNECTION (TYPICAL)



ELEVATION AT SPLICE

* At about 30'-0" centers with at least one splice gap between pull or end posts.



PLAN OF FLOOR PLATE

GENERAL NOTES:

Pedestrian guard fence (Chain link type) shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled.

All posts shall be vertical. Grout of 1/2" minimum thickness shall be placed under floor plates to provide for vertical alignment of posts.

Payment for furnishing, galvanizing and erecting the fence and frame complete with anchor bolts and washers will be considered completely covered by the contract unit price for Pedestrian Fence (Structures) per linear foot.

Dimensions of pedestrian guard fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 ft. Post brace and 1/2"Ø truss rod are required for panels adjacent to pull posts and end posts only.

Connect the lower end of the 1/2"Ø truss rod to the bottom of the pull posts and end posts to which the stretcher bar is attached.

Pedestrian Fence (Structures) will be measured to the nearest linear foot for each structure measured along the bottom outside edge of the barrier from Ø Bent No. 7 to Ø Bent No. 8.

Core wire size for wire fabric shall be 6 gage minimum.

CHAIN LINK FENCE



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DATE PREPARED 05-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 20

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A10763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

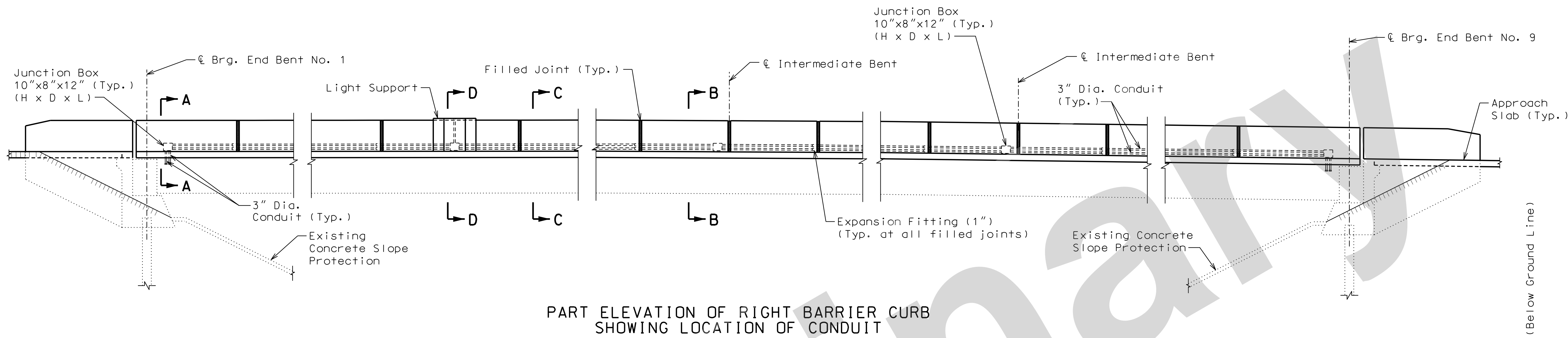
105 WEST CAPITOL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

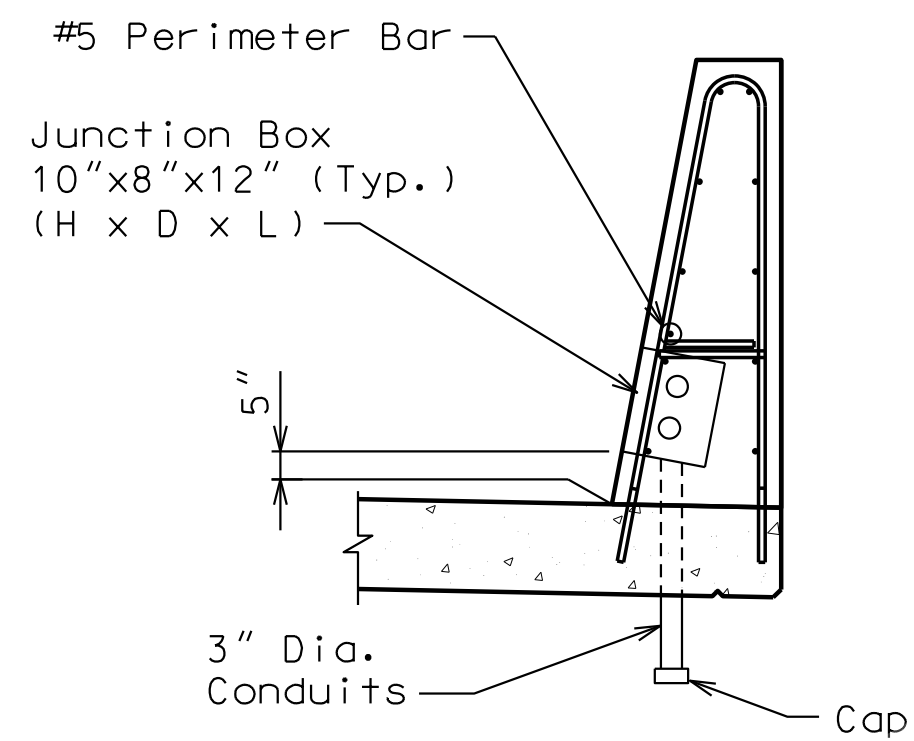
JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121 CERTIFICATE OF AUTHORITY #00704

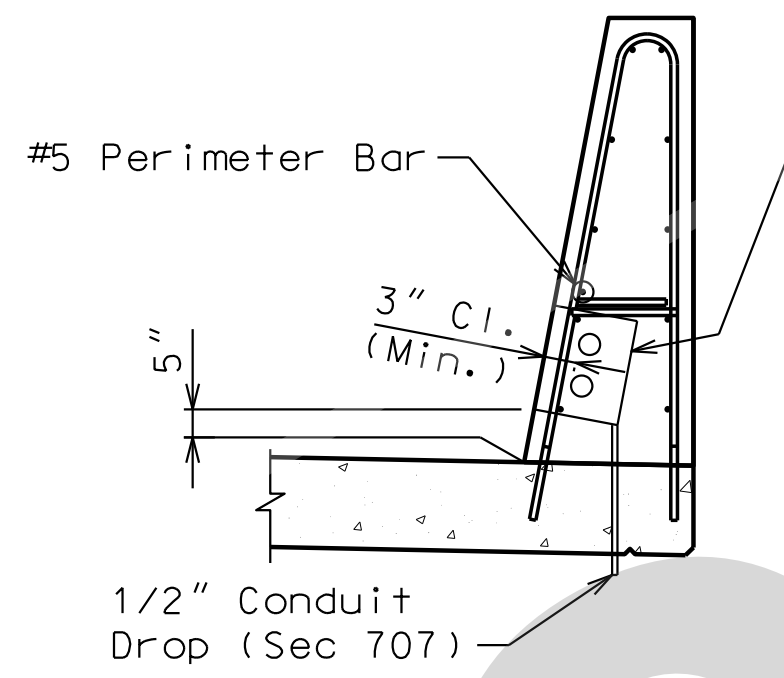
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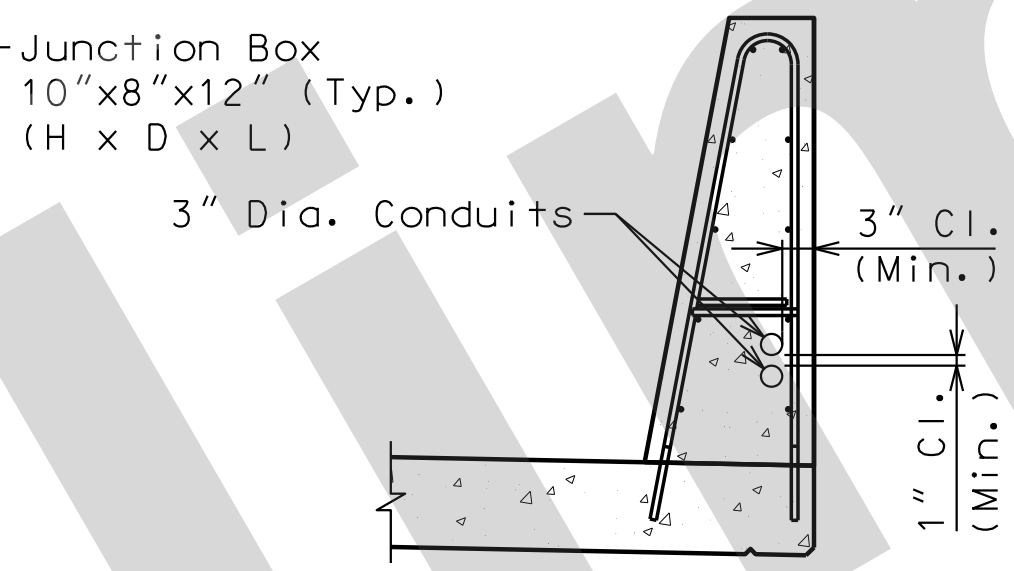
PART ELEVATION OF RIGHT BARRIER CURB SHOWING LOCATION OF CONDUIT



SECTION A-A

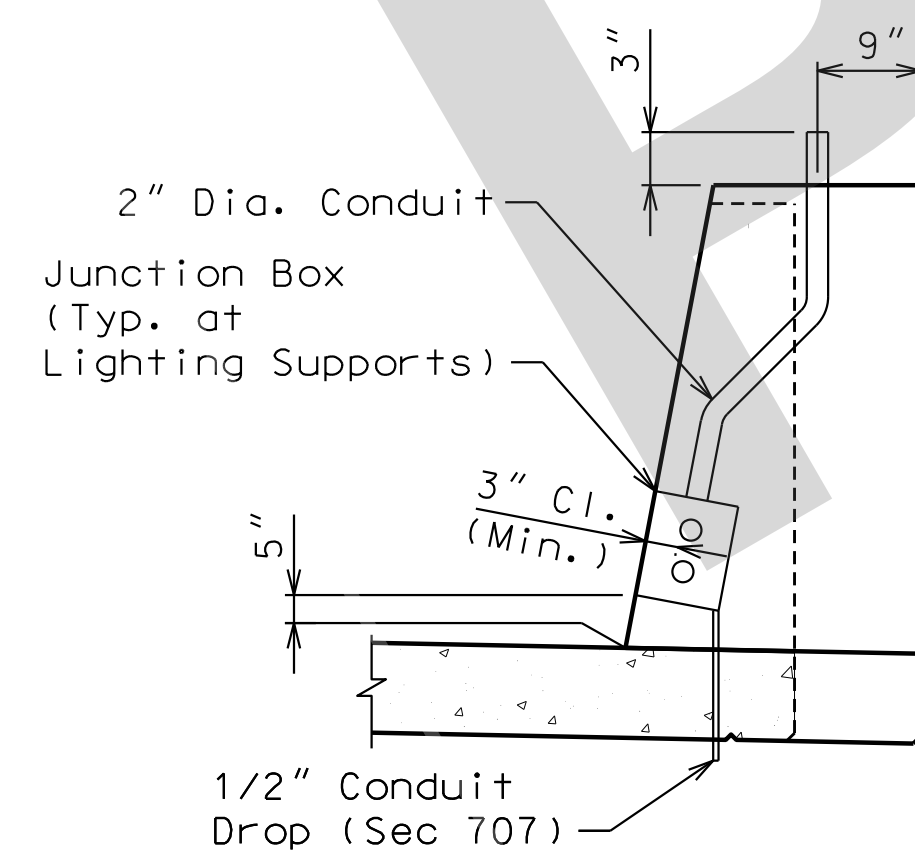


SECTION B-B

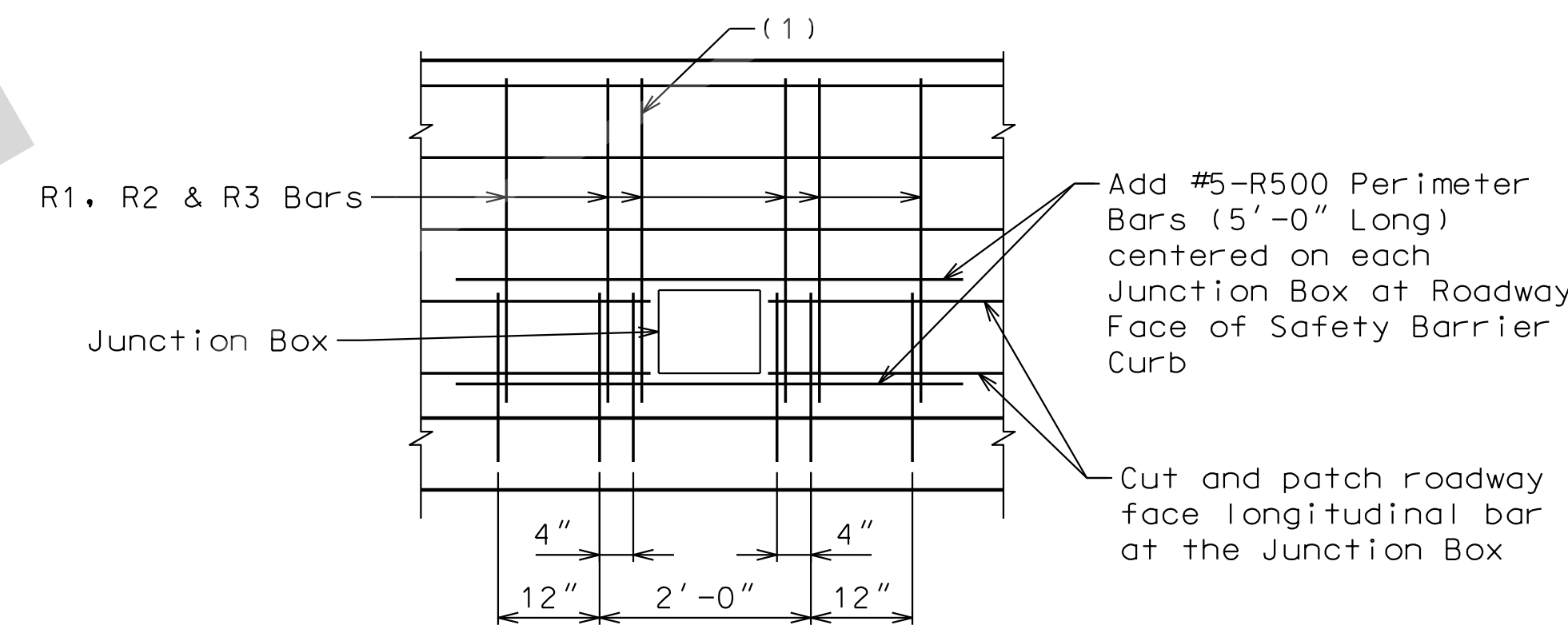


SECTION C-C

(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers



SECTION D-D



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements.

DETAILS OF CONDUIT SYSTEM

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 22

U.I.P., REDECK AND REHABILITATE EXISTING (50'-66'-92'-79'-11')(91'-90'-90'-80')
CONTINUOUS COMPOSITE PLATE GIRDER SPANS (SKEW: VARIES)

Required Lap Length For Bar Splices (1)	
Bar Size	Splice Length
4	2'-7"
5	3'-3"
6	3'-10"
7	4'-11"

(1) Unless otherwise shown.

General Notes:

Design Specifications:
2002 AASHTO LFD (17th Ed.) Standard Specifications

Design Loading:
H20-44 Modified (1961)
HS20-44 Modified (1983 and 2021)
No allowance for Future Wearing Surface

Design Unit Stresses:
Class B-1 Concrete (Barrier) $f'c = 4,000$ psi
Class B-2 Concrete (Superstructure, except Barrier) $f'c = 4,000$ psi
Reinforcing Steel (Grade 60) $f_y = 60,000$ psi
Structural Carbon Steel (ASTM A709 Grade 50) $f_y = 50,000$ psi

Joint Filler:
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Structural Steel Protective Coatings:
Protective Coating: System G in accordance with Sec 1081.

Surface Preparation: Surface preparation of the existing steel shall be in accordance with Sec 1081 for Recoating of Structural Steel (System G, H or I). The cost of surface preparation will be considered completely covered by the contract price per sq. foot for Surface Preparation for Recoating Structural Steel.

Prime Coat: The cost of the prime coat will be considered completely covered by the contract unit price per sq. foot for the Field Application of Inorganic Zinc Primer. Tint of the prime coat for System G shall be similar to the color of the field coat to be used.

Field Coat: The color of the field coat shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract lump sum unit price per sq. foot for Intermediate Field Coat (System G).

Miscellaneous:
The top, sides and bottom of the top flanges of existing steel girders shall be cleaned with a minimum of SSPC-SP-3 surface preparation and coated with a minimum of one coat of gray epoxy-mastic primer (non-aluminum) in accordance with Sec 1081 to produce a dry film thickness of not less than 3 mils before concrete is poured. The cost will be considered completely covered by the contract unit price for Slab on Steel.

Protective coating for concrete bents and piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Bars bonded in old concrete not removed shall be cleanly stripped and embedded into new concrete where possible. If length is available, old bars shall extend into new concrete at least 40 diameters for smooth bars and 30 diameters for deformed bars, unless otherwise noted.

Final top of slab elevations shall match existing top of overlay elevations.

Roadway surfacing adjacent to bridge ends shall match new bridge slab surface. (Roadway item)

All concrete repairs shall be in accordance with Sec 704, unless noted otherwise.

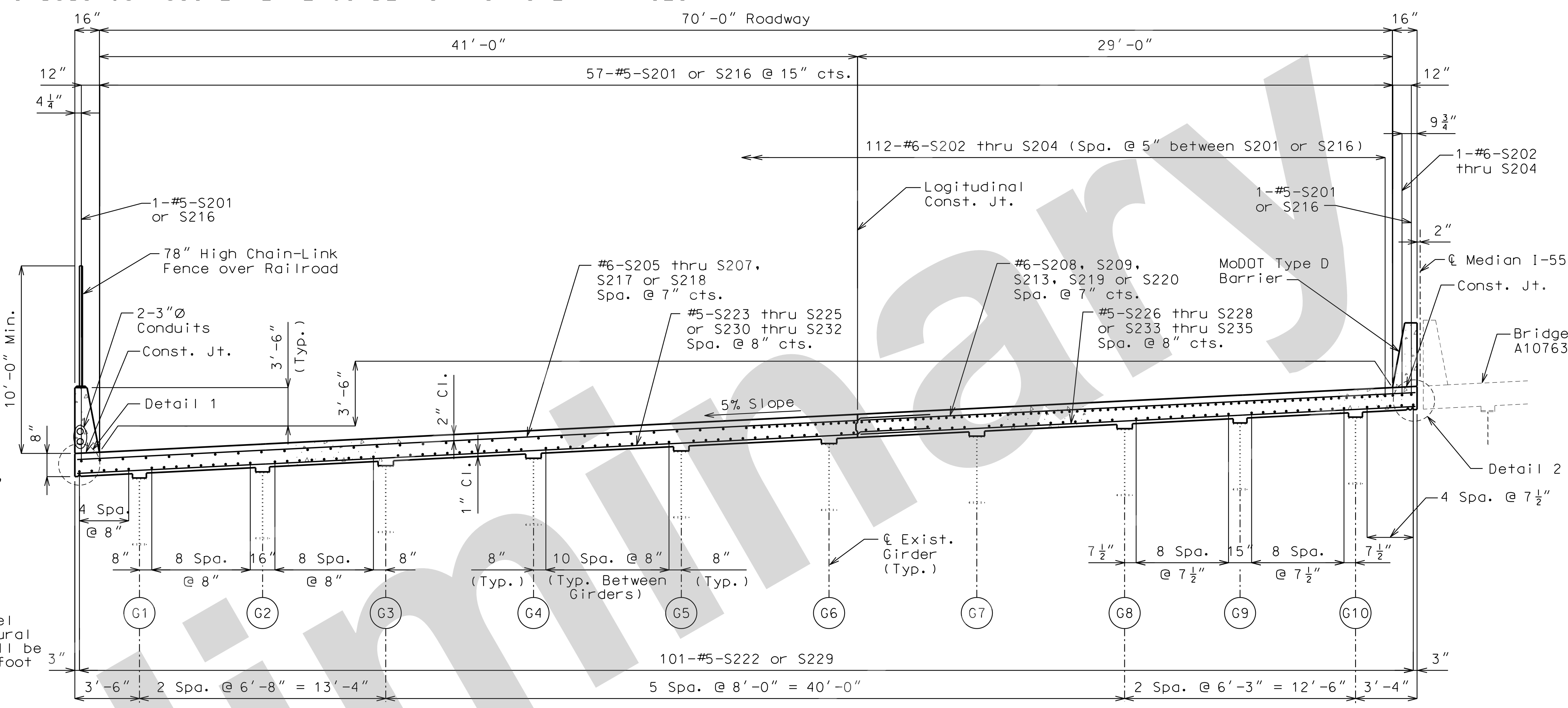
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Longitudinal dimensions are based on the original design plans.

Contractor shall verify all dimensions in field before ordering new material.

The area exposed by the removal of concrete and not covered with new concrete shall be coated with an approved qualified special mortar in accordance with Sec 704.

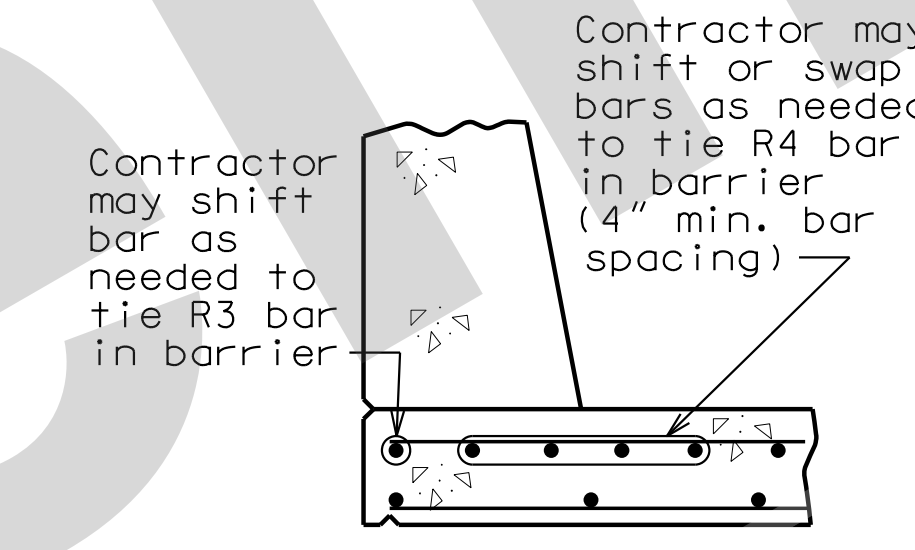
Detailed June 2021
Checked June 2021



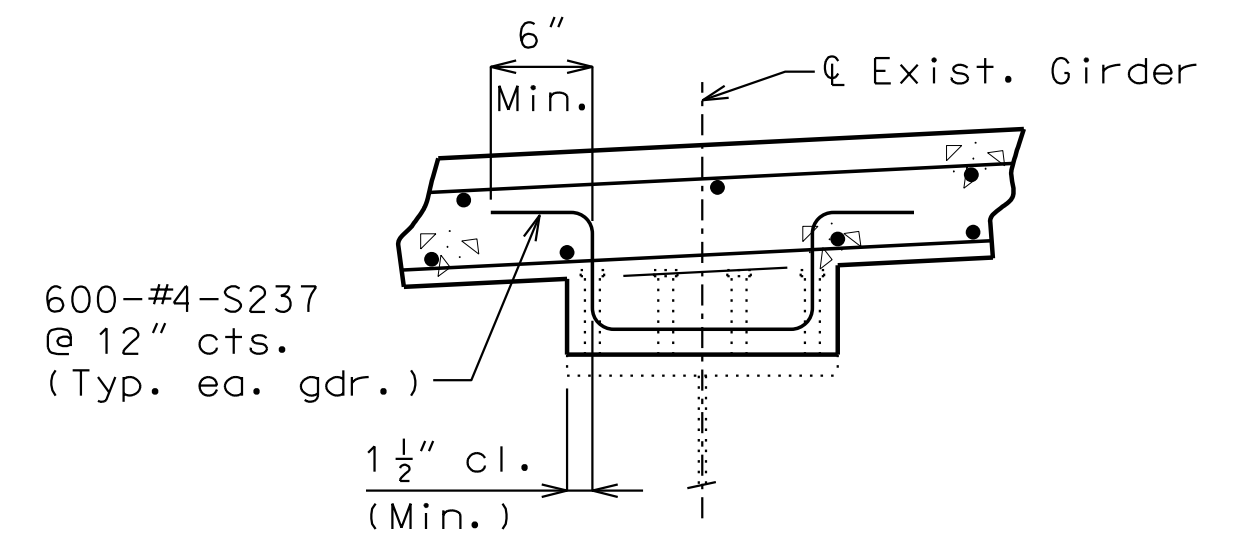
SECTION NEAR MID-SPAN

SECTION NEAR INTERMEDIATE BENT

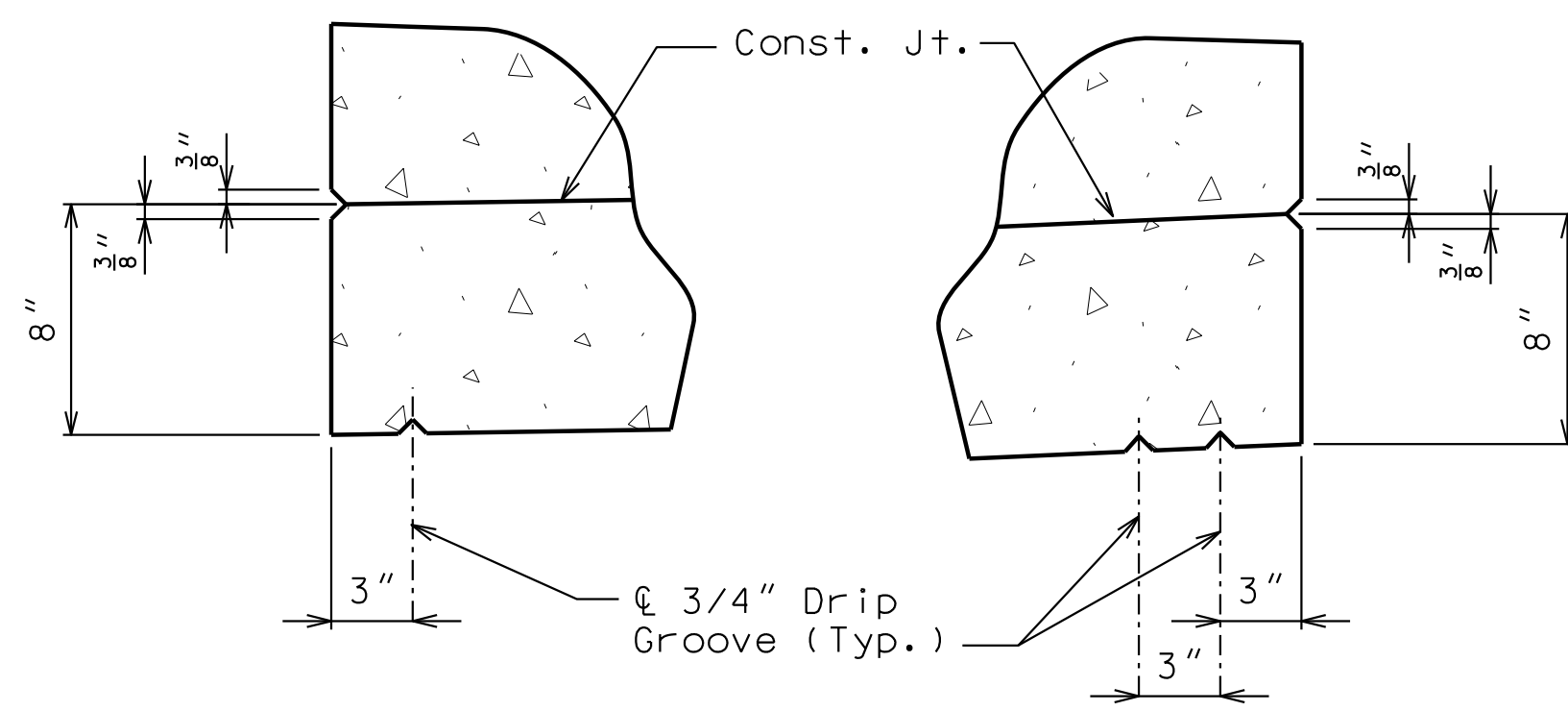
TYPICAL SECTION THRU ROADWAY



OPTIONAL SHIFTING TOP BARS AT BARRIER



SECTION THRU HAUNCH



DETAIL 1

DETAIL 2

Traffic Handling:
Structure to be closed during construction. Traffic to be maintained on northbound structure during construction. See roadway plans for traffic control.

Note:
For Quantities, see Sheet No. 2.

REPAIRS TO BRIDGE:
ROUTE I-55 SB OVER UPRR

ROUTE I-55 FROM I-44 TO ROUTE I-270
ABOUT 5.2 MILES SOUTH OF ROUTE I-44
STA. 489+18.27± (MATCH EXISTING)

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 25

RODNEY D. RILEY
REGISTERED PROFESSIONAL ENGINEER
LICENSE NUMBER E-26267

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
DATE PREPARED: 09-AUG-2021

ROUTE I-55	STATE MO
DISTRICT BR	SHEET NO. 1

COUNTY: ST. LOUIS
JOB NO.: J613187
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.: A12763

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

JACOBS
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704

Estimated Quantities				
Item		Substr.	Superstr.	Total
Removal of Existing Bridge Deck	sq. foot		47,733	47,733
Removal of Existing Bearings	each		20	20
Bridge Approach Slab (Major)	sq. yard		389	389
Pedestrian Fence (Structure)	linear foot		90	90
Slab on Steel	sq. yard		5200	5200
Type D Barrier	linear foot		1420	1420
(1) Ultra-High-Performance Concrete	cu. yard		33.2	33.2
Substructure Repair (Formed)	sq. foot	250		250
Substructure Repair (Unformed)	sq. foot	170		170
Conduit System on Structure	lump sum			1
Protective Coating - Concrete Bents & Piers (Epoxy)	lump sum			1
Fabricated Structural Low Alloy Steel (Misc.)	pound		14,670	14,670
Slab Drain	each		20	20
Surface Preparation for Recoating Structural Steel	sq. foot		700	700
Field Application of Organic Zinc Primer	sq. foot		700	700
Intermediate Field Coat (System G)	sq. foot		700	700
Laminated Neoprene Bearing Pad Assembly	each		10	10
Type N PTFE Bearing	each		20	20
Strip Seal Expansion Joint System	linear foot		332	332

(1) See Special Provisions

Cost of any required excavation for bridge will be considered completely covered by the contract unit price for other items.

Payment for removal of girder bumpers and trimming girder ends will be considered completely covered by the contract unit price for Removal of Existing Bearings.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	1,159
Reinforcing Steel (Epoxy Coated)	pound	434,410

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for stay-in-place corrugated steel forms, conventional forms, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slab shall be in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II or III.

Slab shall be cast-in-place with conventional forming or stay-in-place corrugated steel forms. Precast prestressed panels will not be permitted.

For Optional Stay-In-Place Form Details, see Sheet No. 3.

Concrete above the upper construction joint in backwall at End Bents No. 1 and 9 is included with the Class B-2 Concrete (Slab on Steel) Quantities.

Maintenance Notes:

All permanent clearances shall be verified before project closing.

The contractor must submit a proposed method of erosion and sediment control and have the method approved by the Railroad.

Regardless of underlying land ownership, all shoring systems within Railroad right-of-way or that may impact the Railroad's operations and/or supports the Railroad's embankment shall be designed and constructed per current Railroad Guidelines for Temporary Shoring.

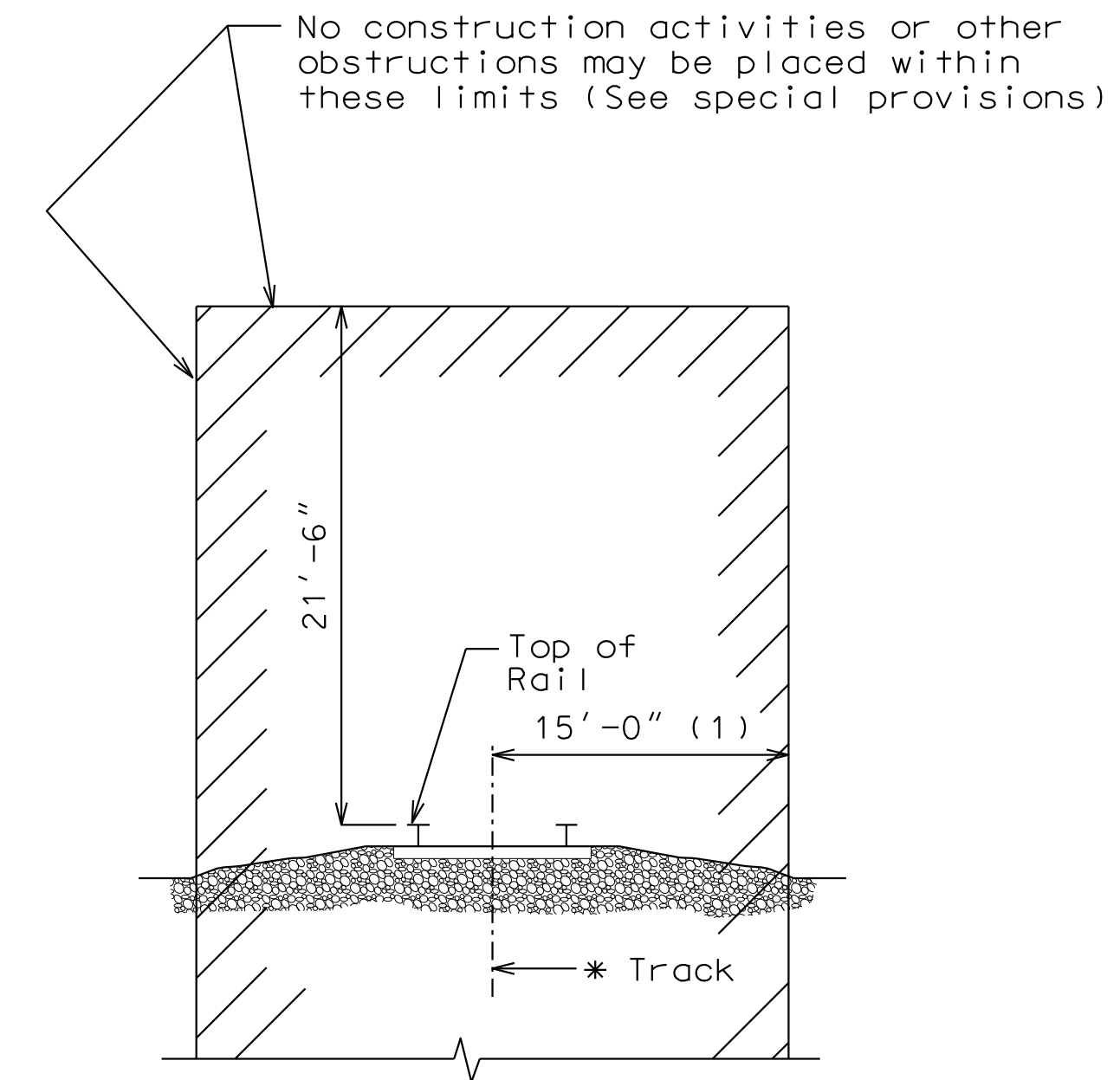
The contractor shall submit and provide sufficient safety measures to protect unattended excavations to the Railroad for approval.

All demolitions/removals within the Railroad's right-of-way and/or that may impact the Railroad's tracks or operations shall be in compliance with the current Railroad's Demolition Guidelines.

Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all equipment.

Call Before You Dig. Prior to excavation, disrupting, or working on the Railroad property the contractor shall locate and protect UPRR facilities by calling the UPRR "Call Before You Dig" (CBYD) phone number: 1-800-336-9193.

Construction activities, including falsework/formwork, are not allowed within the "Minimum Construction Clearance Envelope" as they would otherwise disrupt Railroad operations.

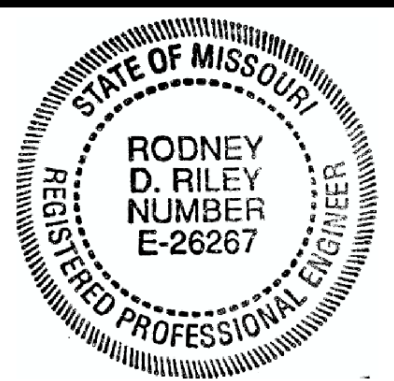


MINIMUM CONSTRUCTION CLEARANCE ENVELOPE
(Normal to railroad)

(1) Minimum clearance of 10'-7 1/2" from Existing Bent 4 bridge column.

Note:

For General Notes, see Sheet No. 1.



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DATE PREPARED

09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 2

COUNTY

ST. LOUIS

JOB NO.

J613187

CONTRACT ID.

PROJECT NO.

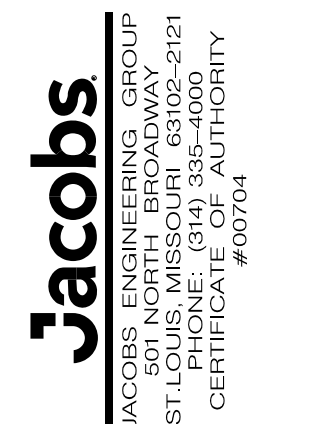
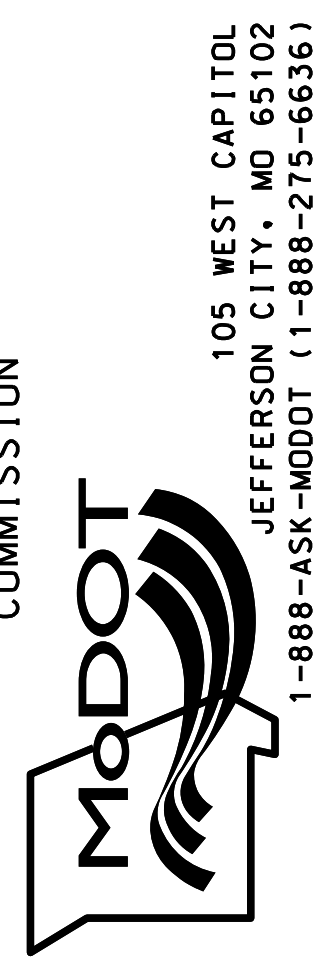
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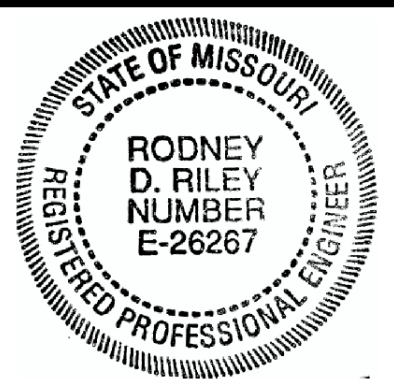
A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION





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DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 4

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

REVISION

NO. 1

NO. 2

NO. 3

NO. 4

NO. 5

NO. 6

NO. 7

NO. 8

NO. 9

NO. 10

NO. 11

NO. 12

NO. 13

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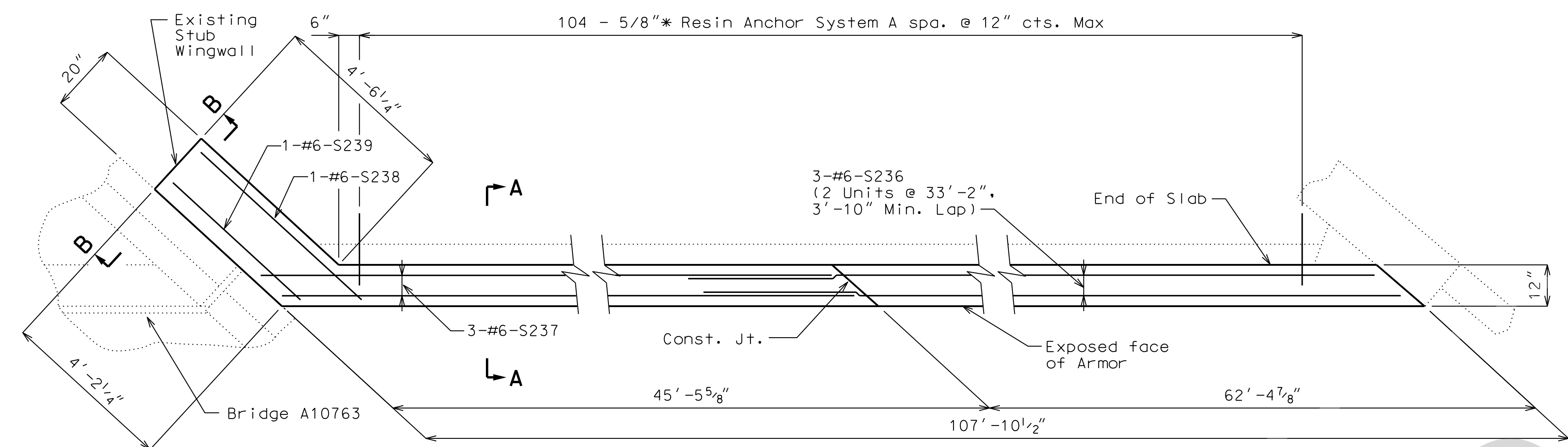
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NO. 27

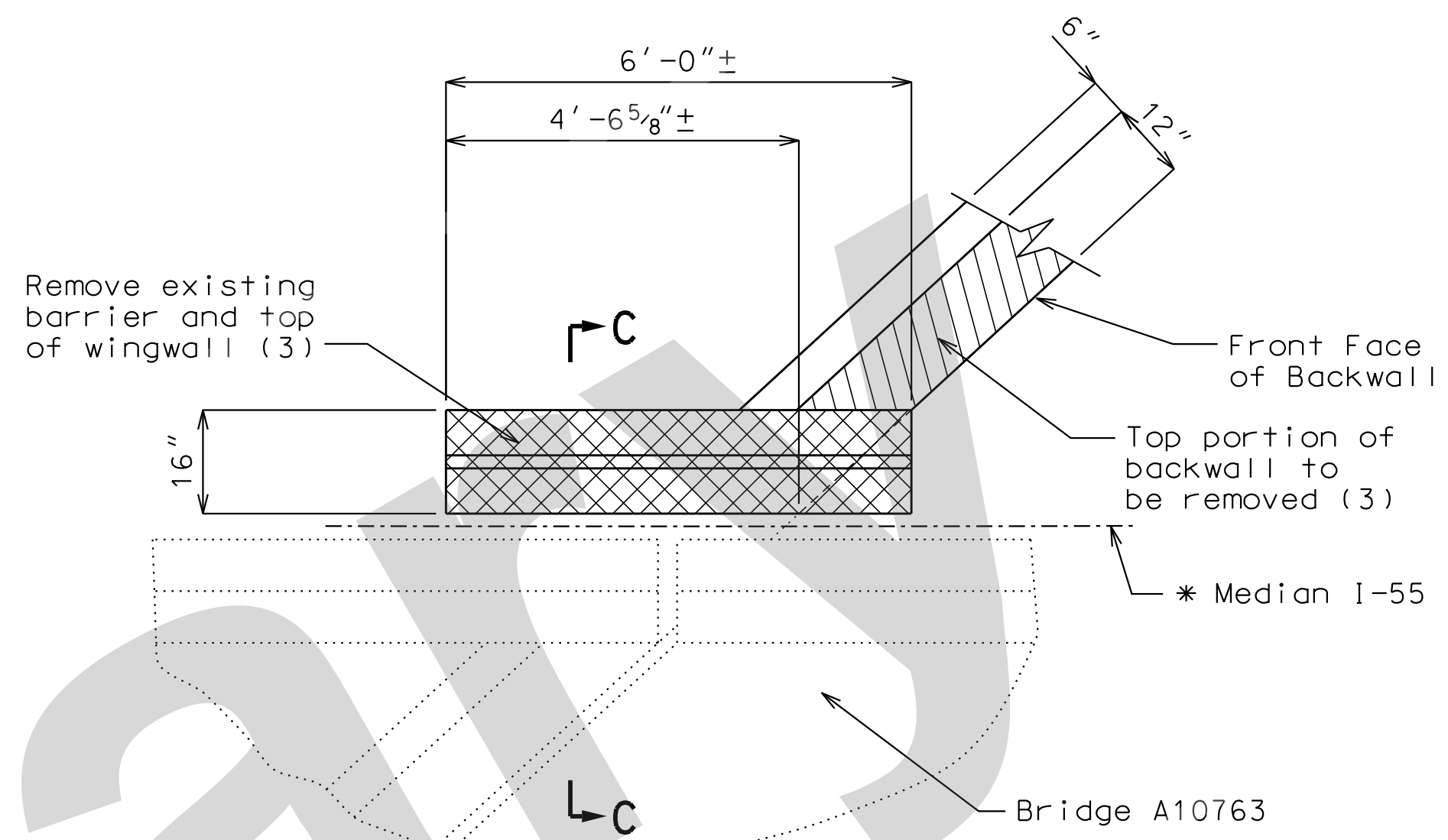
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NO. 29

NO. 30

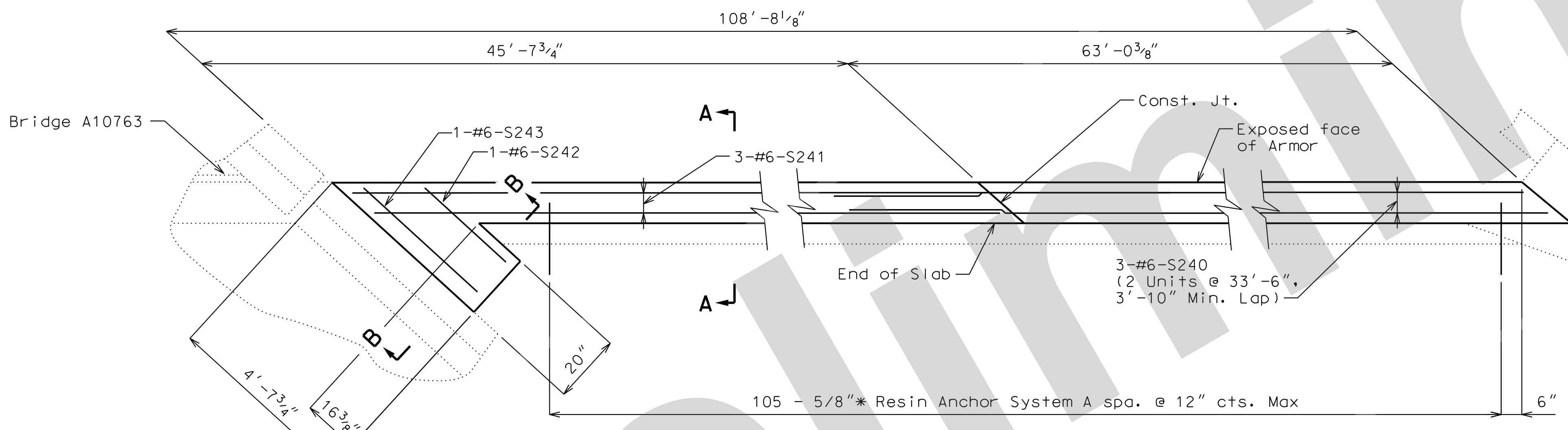


PART PLAN - END BENT NO. 1

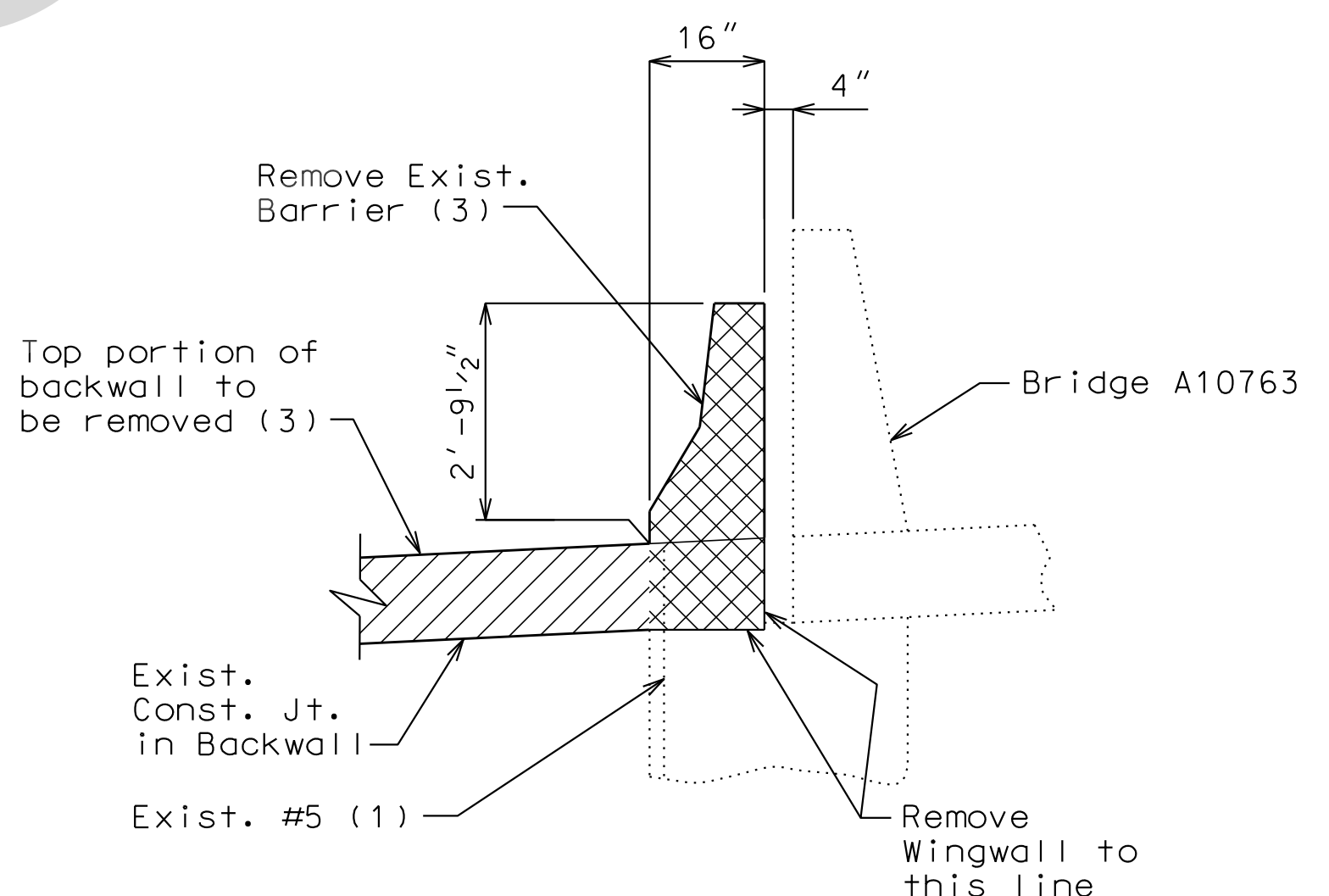


STUB WINGWALL DEMOLITION AT END BENTS

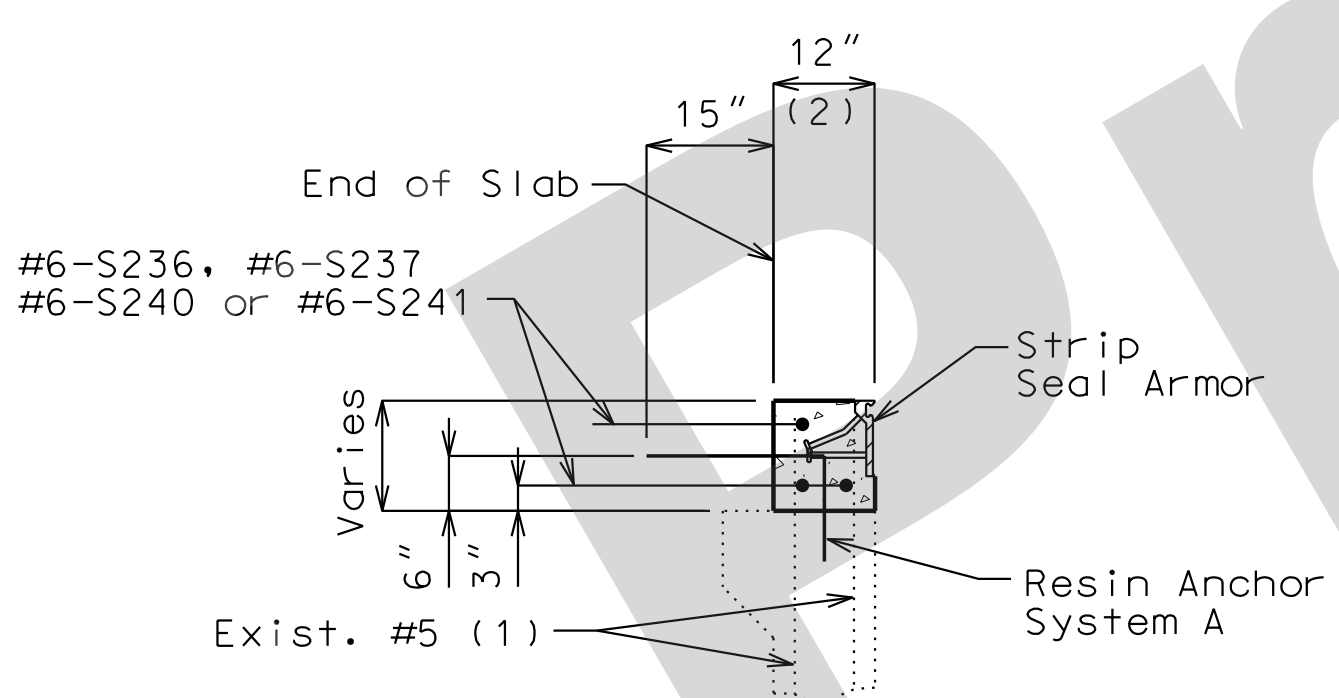
Note: End Bent No. 1 shown, End Bent No. 9 similar.



PART PLAN - END BENT NO. 9



SECTION C-C

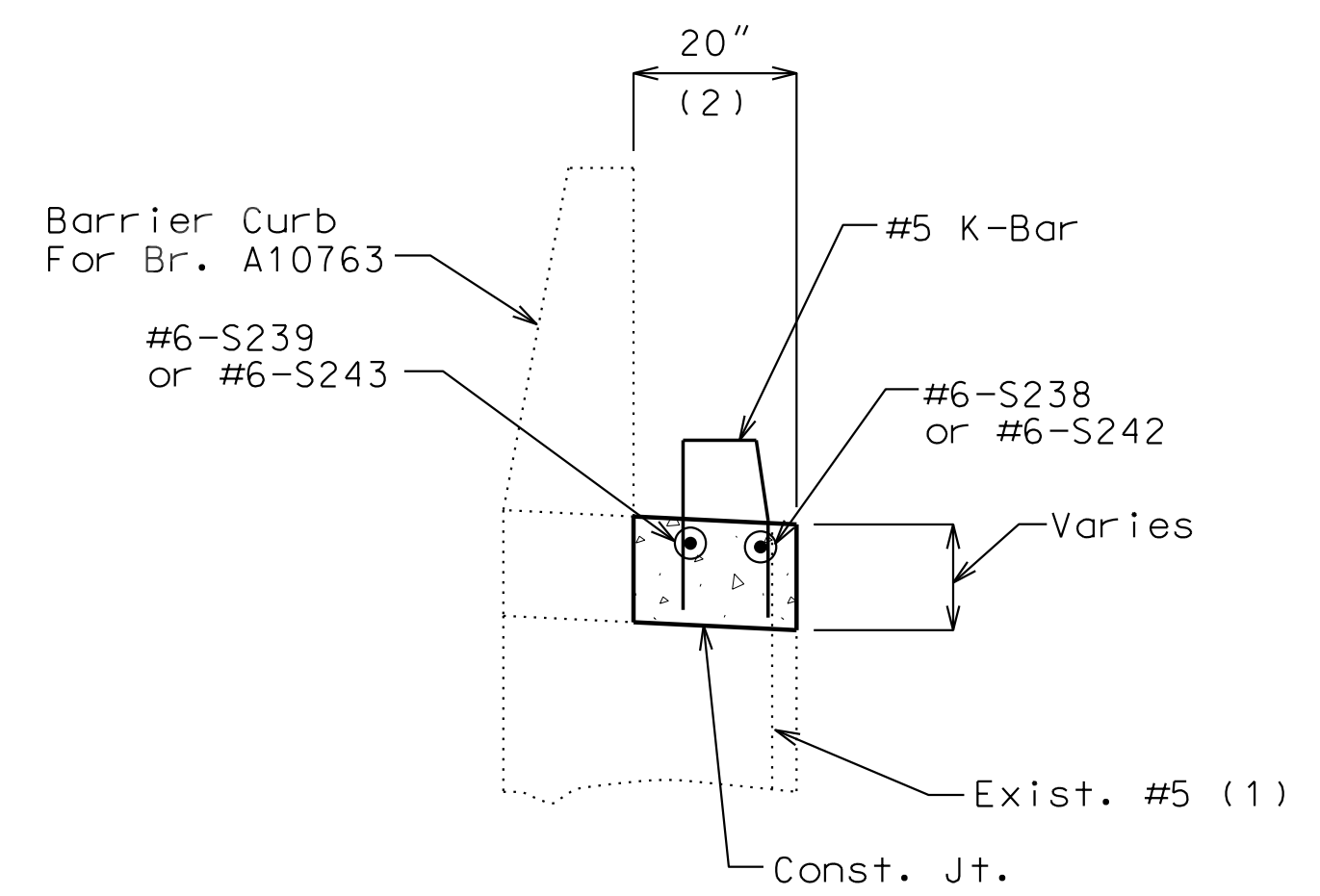


SECTION A-A

DETAILS OF RESIN ANCHOR SYSTEM

(4) Manufacturer's recommended embedment length (5" min.)

- (1) #5 bars shall be cleaned, straightened, and reused.
- (2) New Concrete for Top of Backwall shall be Ultra-high Performance Concrete (UHPC). See Special Provisions.
- (3) Payment for removal of existing barrier and wingwall at End Bents No. 1 and 9 will be considered completely covered by the contract unit price for Removal of Existing Bridge Deck.



SECTION B-B

Notes:

For General Notes, see Sheet No. 1.

For Demolition Details not shown, see Sheet No. 3.

Top of backwall for End Bents No. 1 and 9 shall be formed to the slope and grade of the roadway. Backwall above the upper construction joints shall not be poured until the superstructure slab has been poured in the adjacent span.

RESIN ANCHORS:

The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

The minimum embedment depth in concrete with $f'c = 4,000$ psi for the resin anchor system shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but shall not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar shall be substituted for the threaded rod.

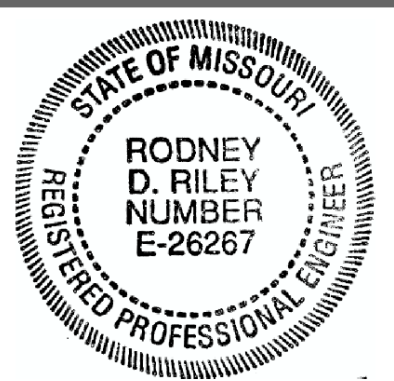
The cost for the resin anchor system, complete in place, will be considered completely covered by the contract unit price for Slab on Steel.

END BENT DETAILS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 25



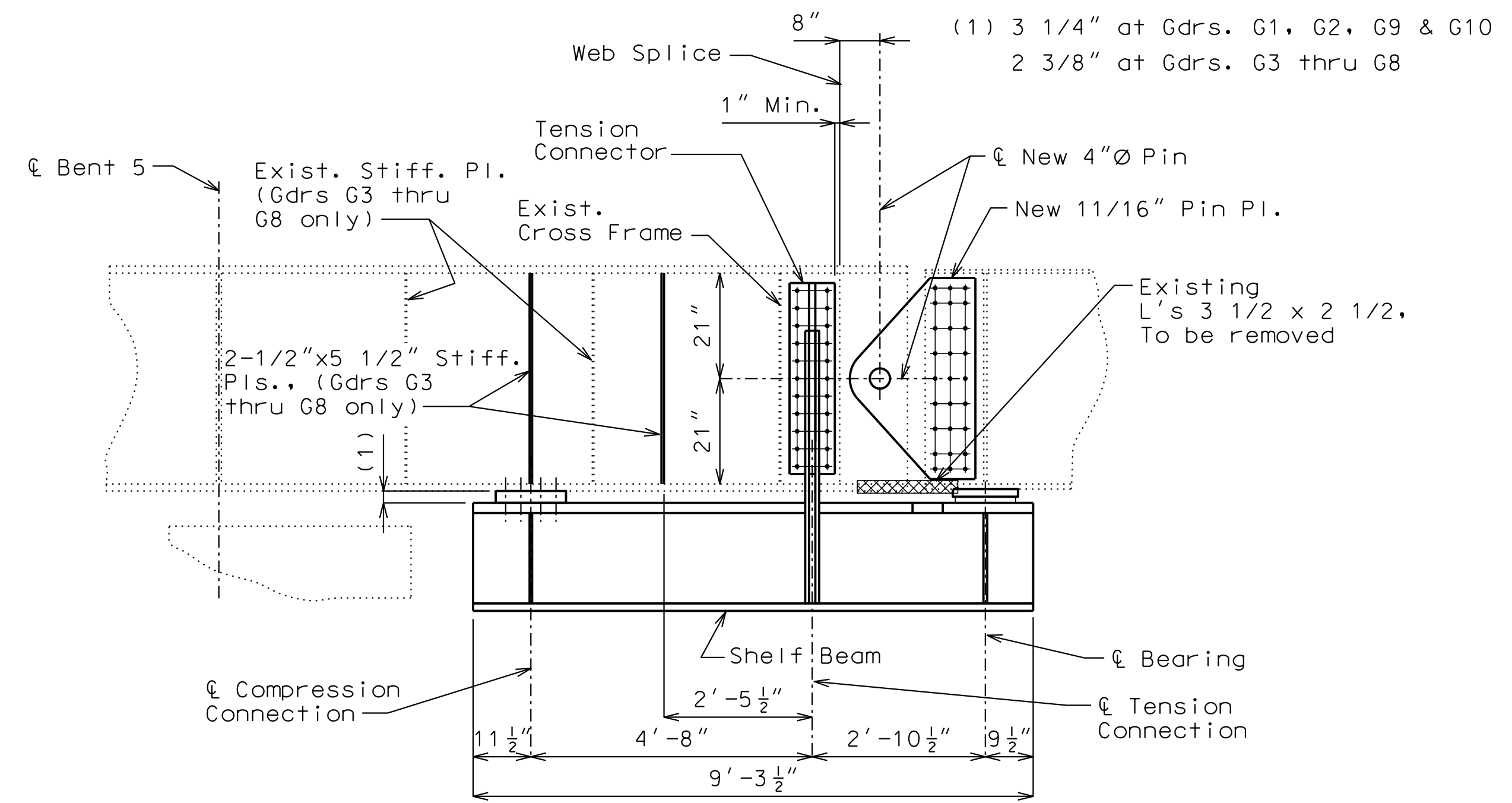
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 ROUTE I-55 STATE MO
 DISTRICT BR SHEET NO. 6
 COUNTY ST. LOUIS
 JOB NO. J613187
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A12763

DESCRIPTION	DATE

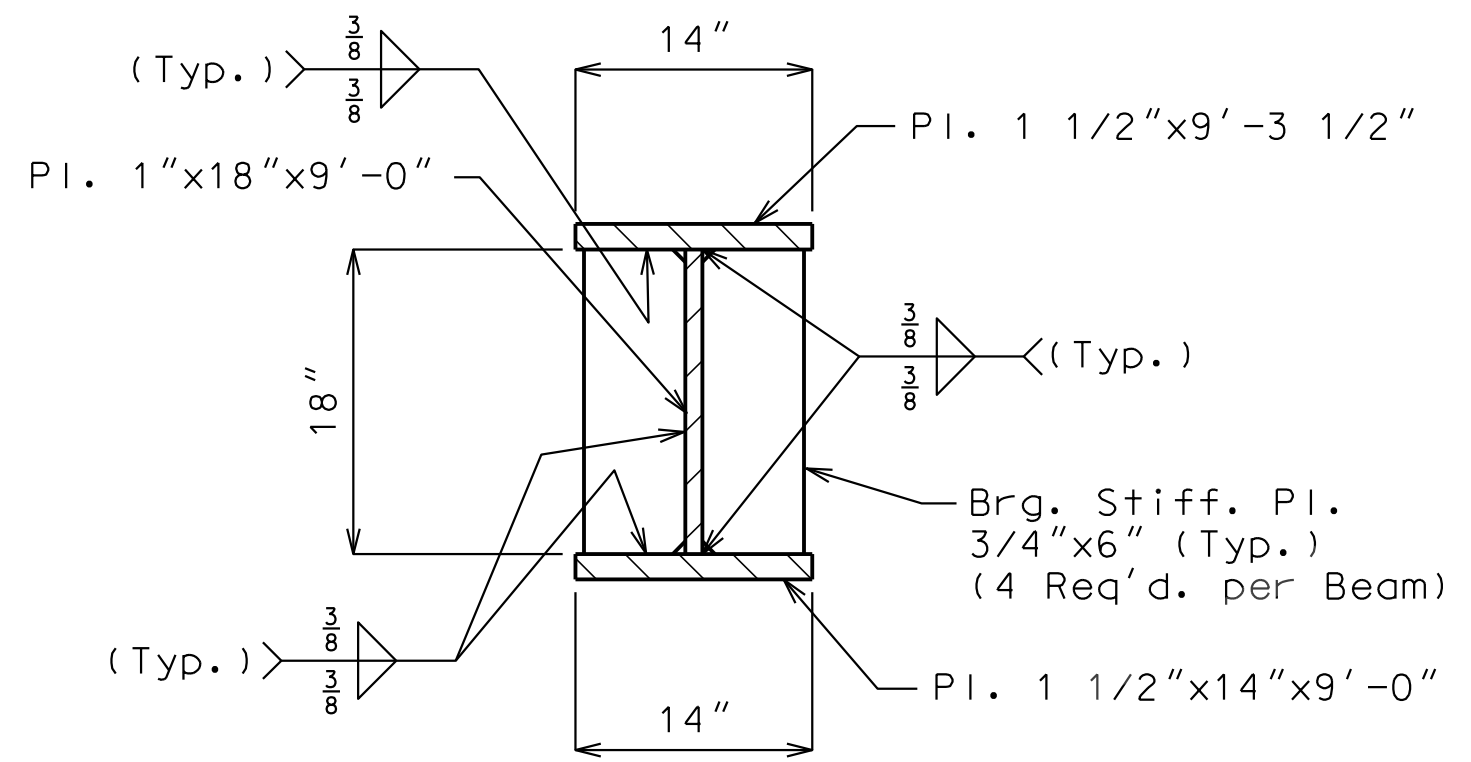
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

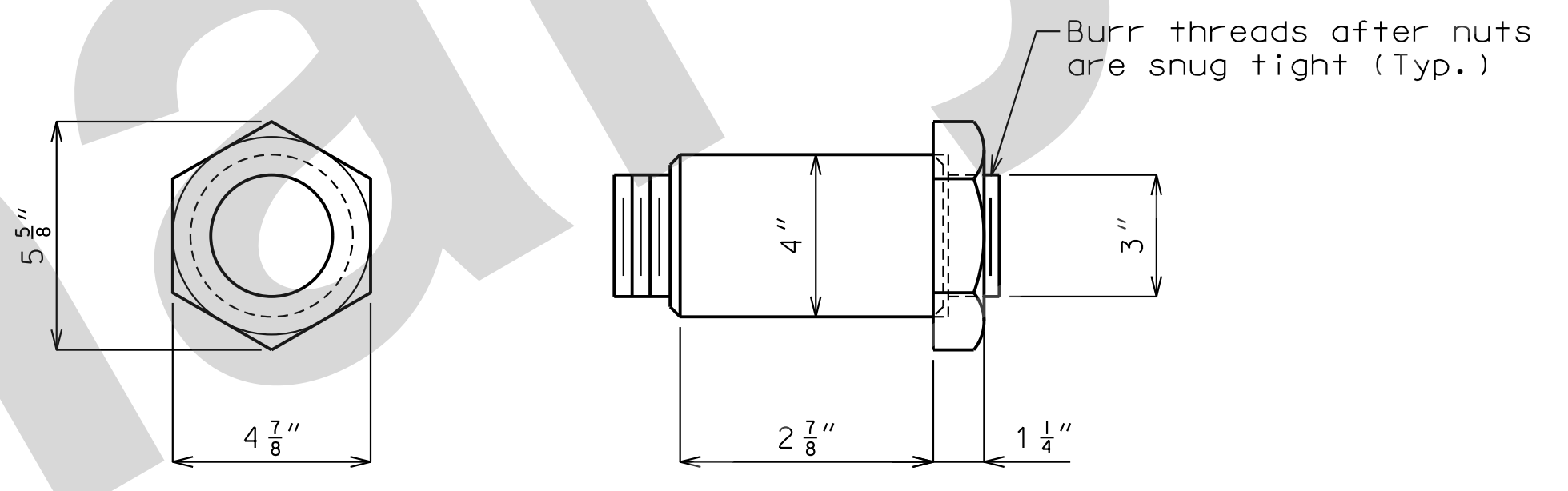
Jacobs
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704



PART ELEVATION SHOWING NEW SHELF BEAM
 Note: Elevation is shown for Exist. Gdrs G3 thru G8. Elevation for Exist. Gdrs G1, G2, G9 and G10 similar, except as noted.

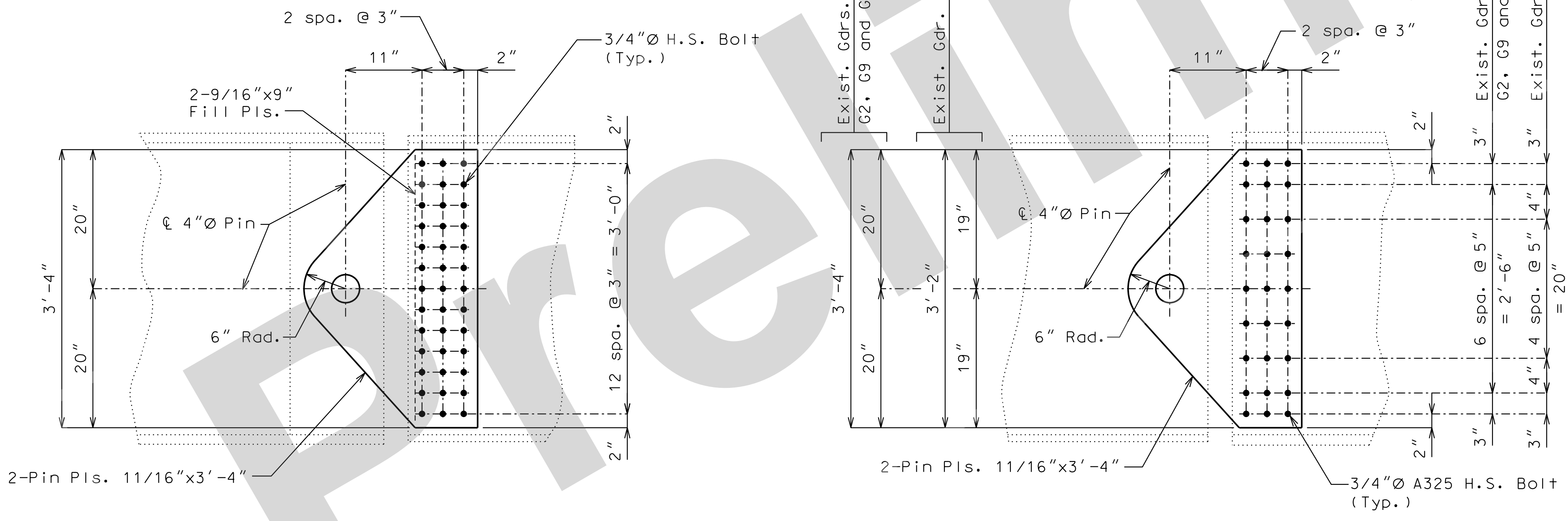


SHELF BEAM DETAIL



DETAIL OF PIN AND FLAT HEXAGONAL NUTS

Material:
 4"Ø Pin shall be ASTM A276, UNS S28100 (Nitronic 60 or equal)
 Flat hexagonal nuts shall be Nitronic Alloy Nut



PIN PLATE REPLACEMENT DETAIL

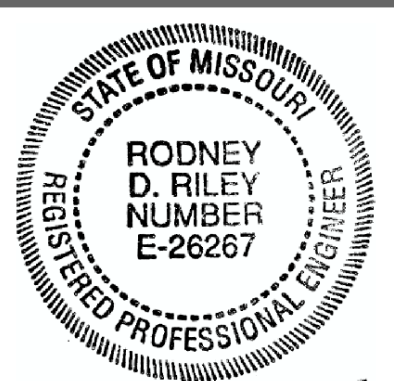
Note:
 For General Notes, see Sheet No. 1.
 All material for shelf beam, connection plates and bearing assembly shall be ASTM A709, Grade 50.
 New Pin Plates shall be ASTM A709, Grade 50 and will be subject to notch tough requirements. Pin Plates shall be galvanized in accordance with ASTM A123 and Sec 1081. The milled pin hole in the pin plate shall not be galvanized.
 3/4"Ø High-Strength Bolts for pin plates shall be ASTM F3125 Grade A325 Type 1 in 13/16"Ø Holes.
 Contact surfaces shall be in accordance with Sec 1081 for surface preparation.
 The cost of removing and installing the pin and pin plates, complete in place, will be considered completely covered by the contract unit price for Fabricated Structural Low Alloy Steel (Misc.)
 Work this sheet with Sheet No. 7.

GIRDER SHELF NEAR BENT 5

Detailed June 2021
 Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 25



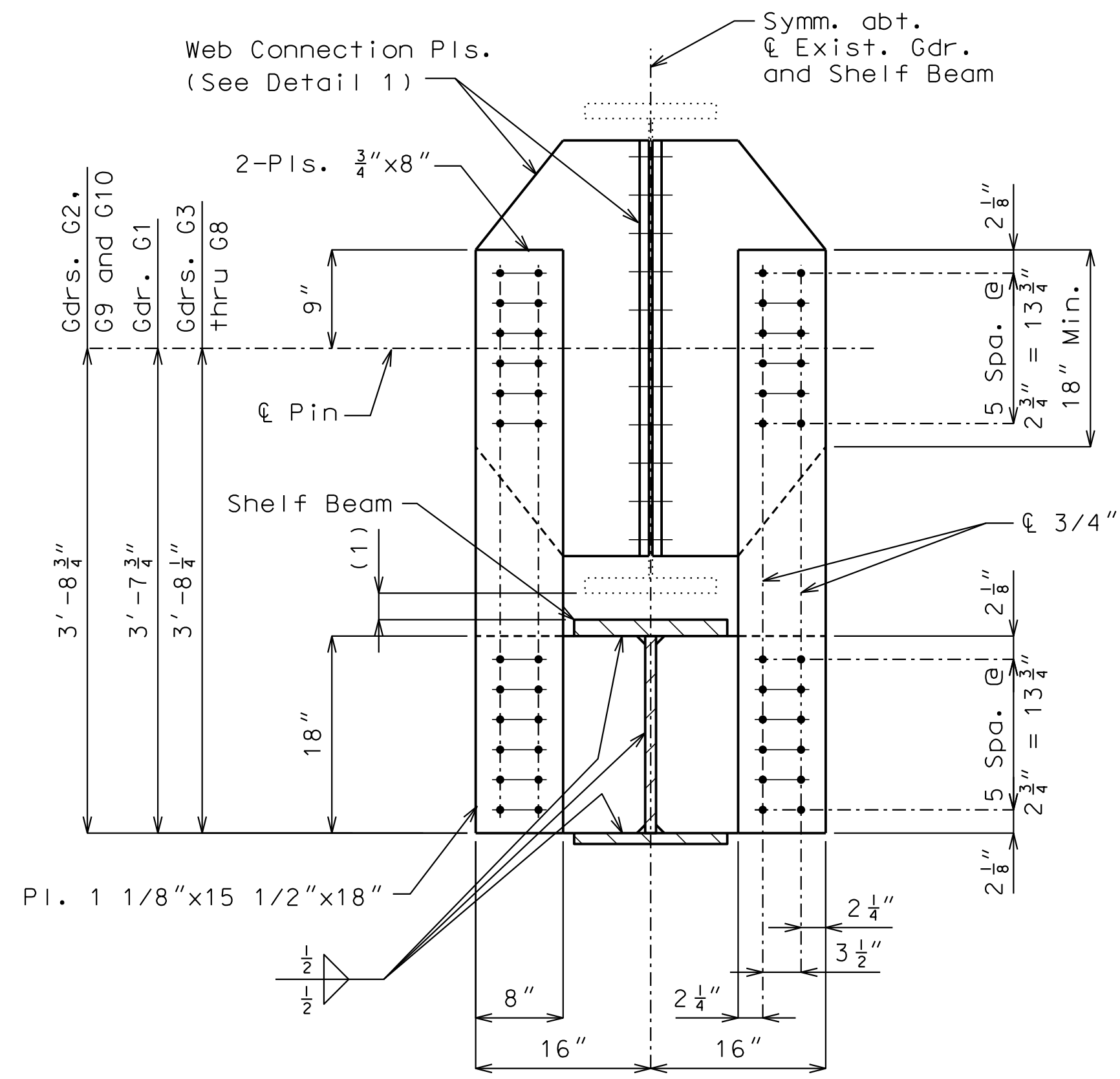
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 ROUTE I-55 STATE MO
 DISTRICT BR SHEET NO. 7
 COUNTY ST. LOUIS
 JOB NO. J613187
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO. A12763

REV.	DESCRIPTION	DATE

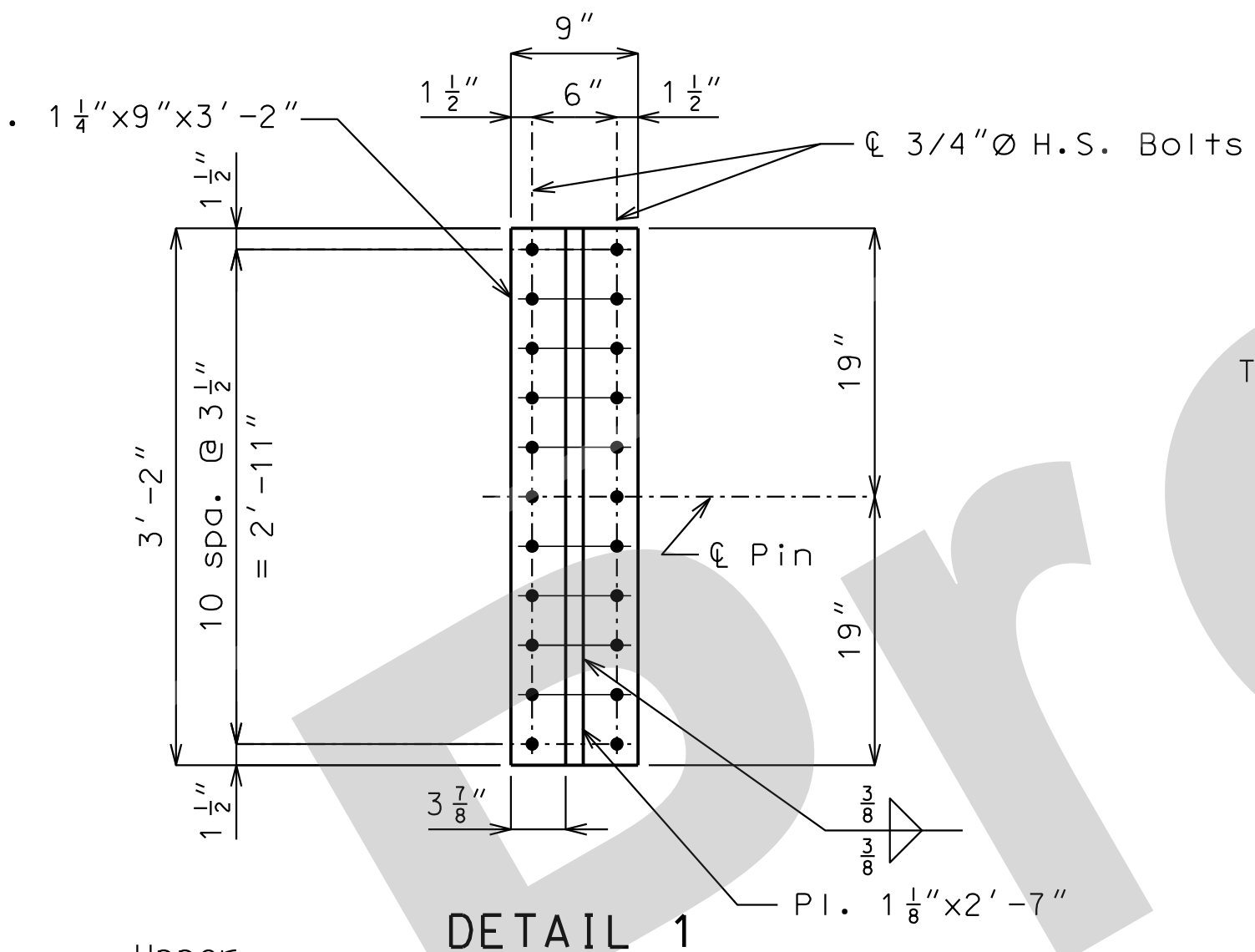
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)



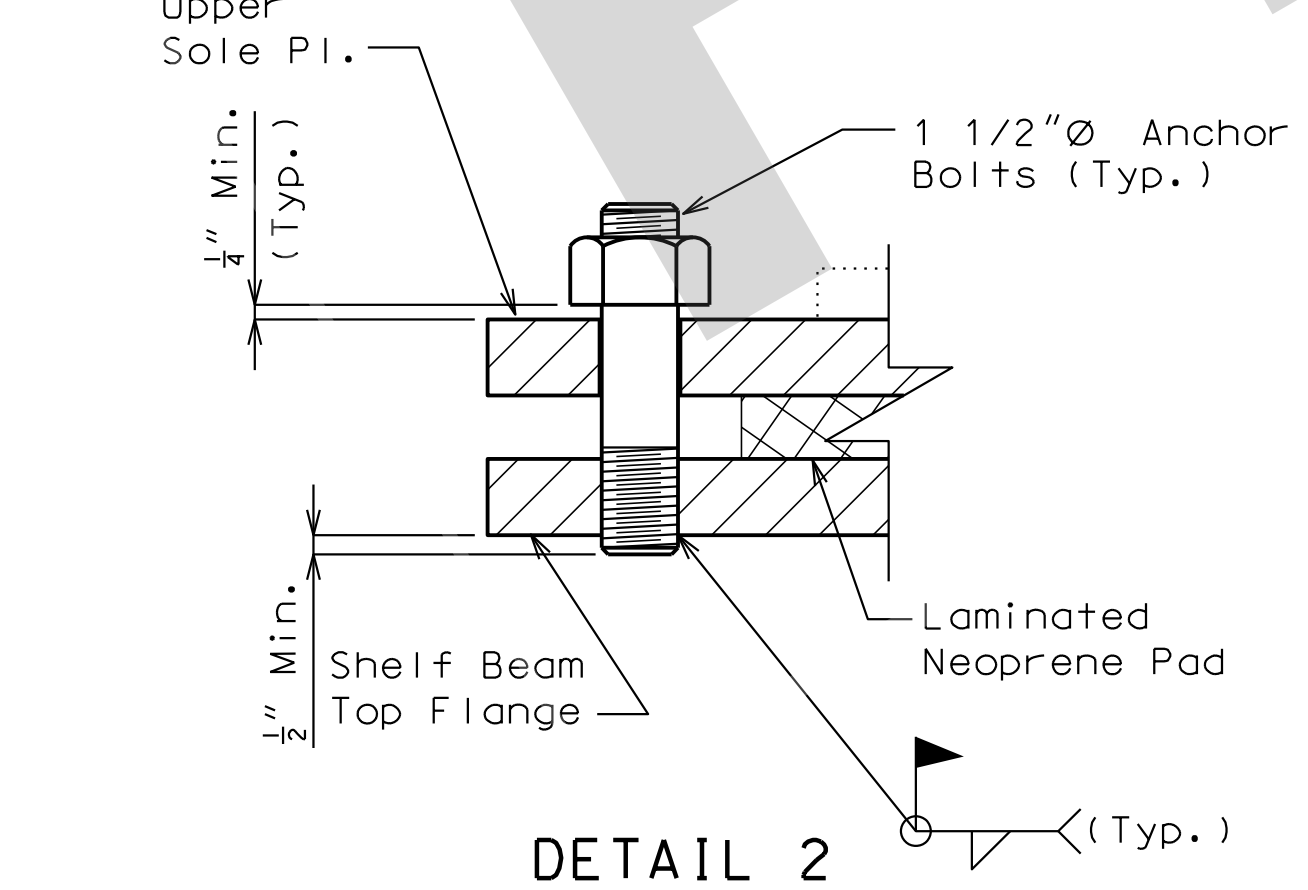
JACOBS
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
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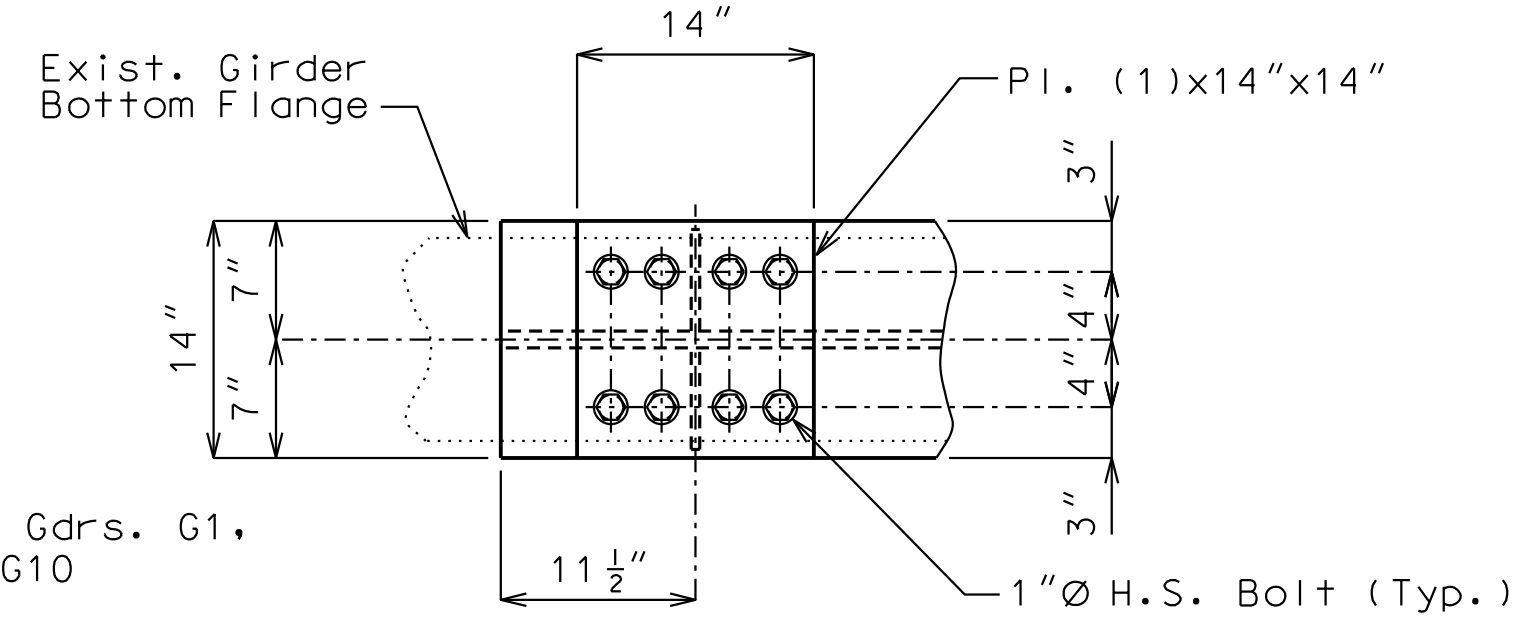
TENSION CONNECTOR DETAIL



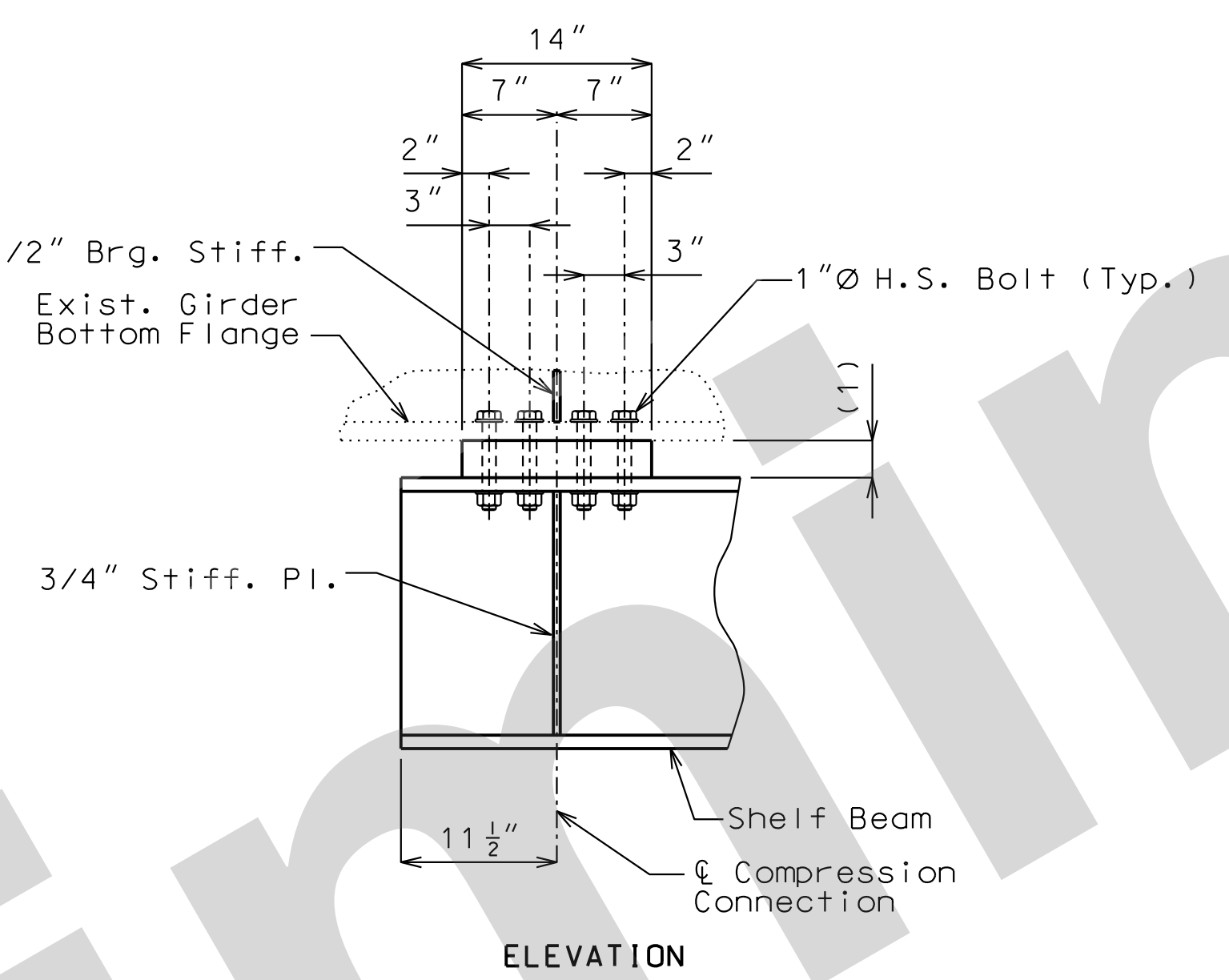
DETAIL 1



DETAIL 2

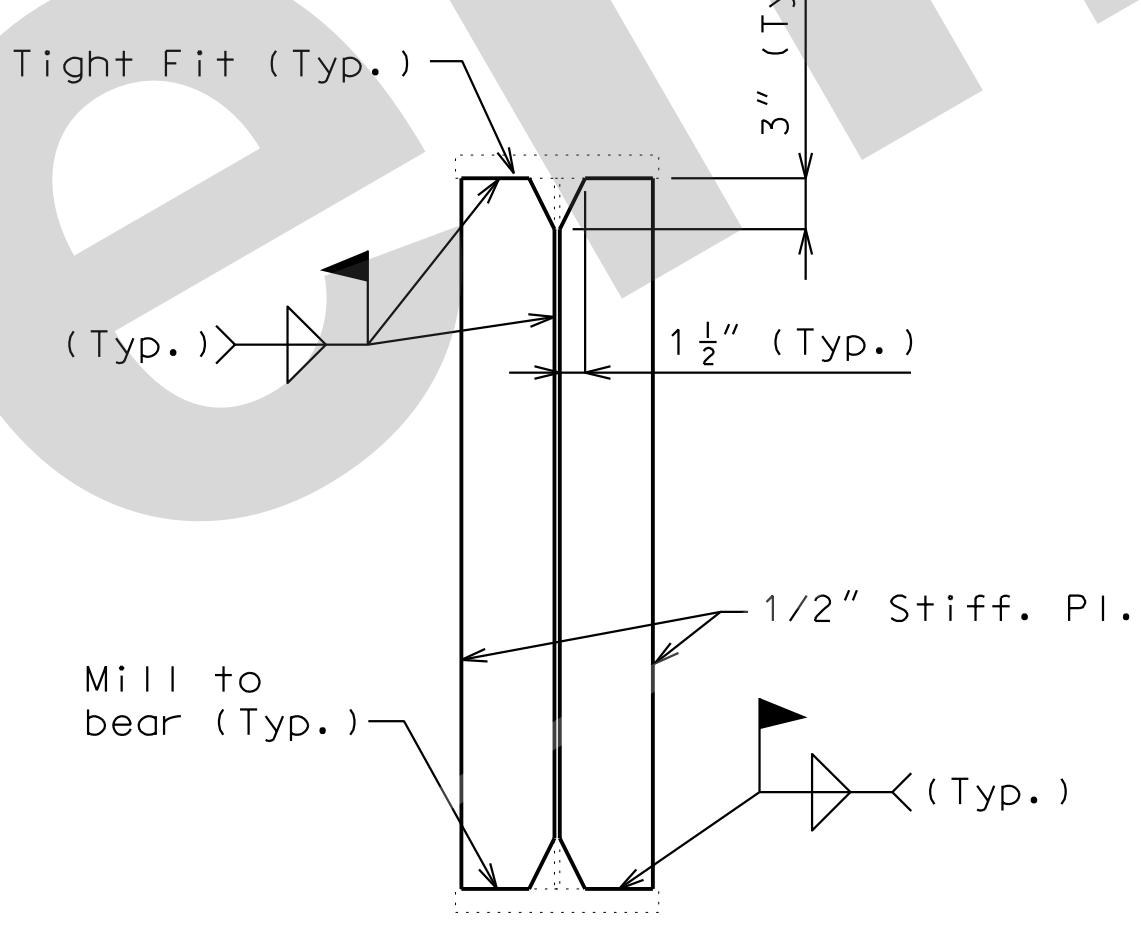


PLAN

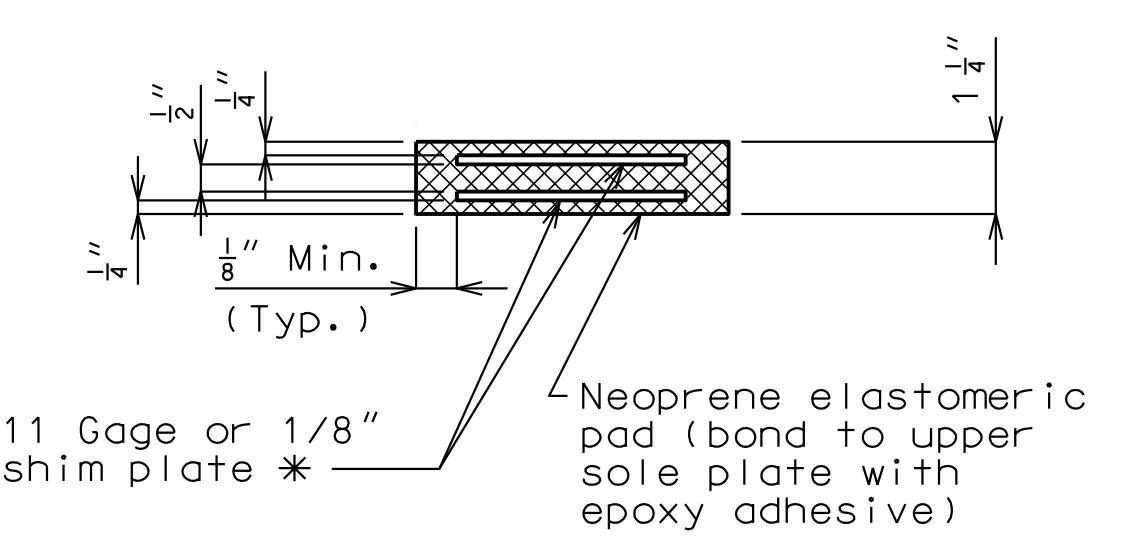


ELEVATION

COMPRESSION CONNECTION DETAIL

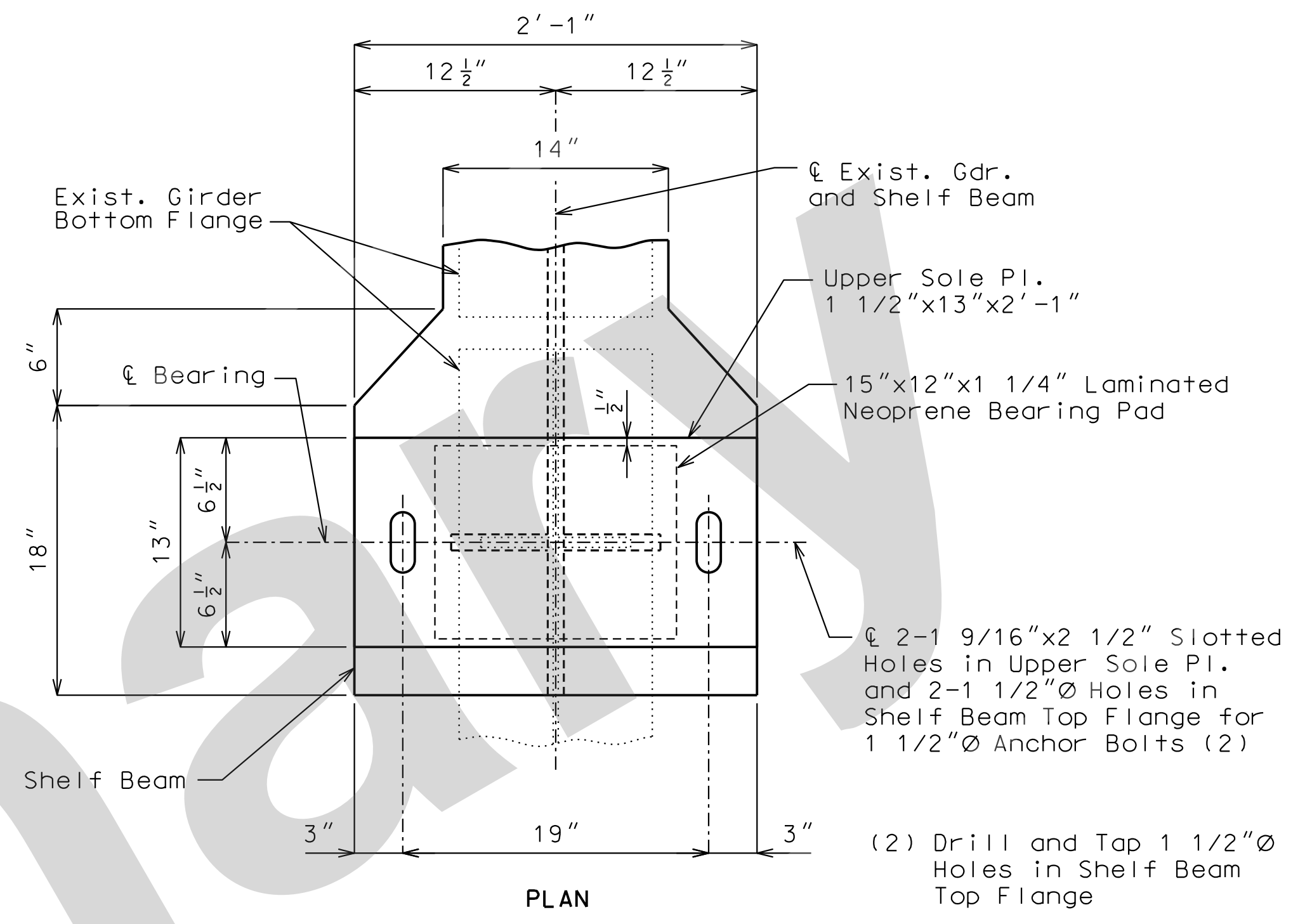


WEB STIFFENER DETAIL

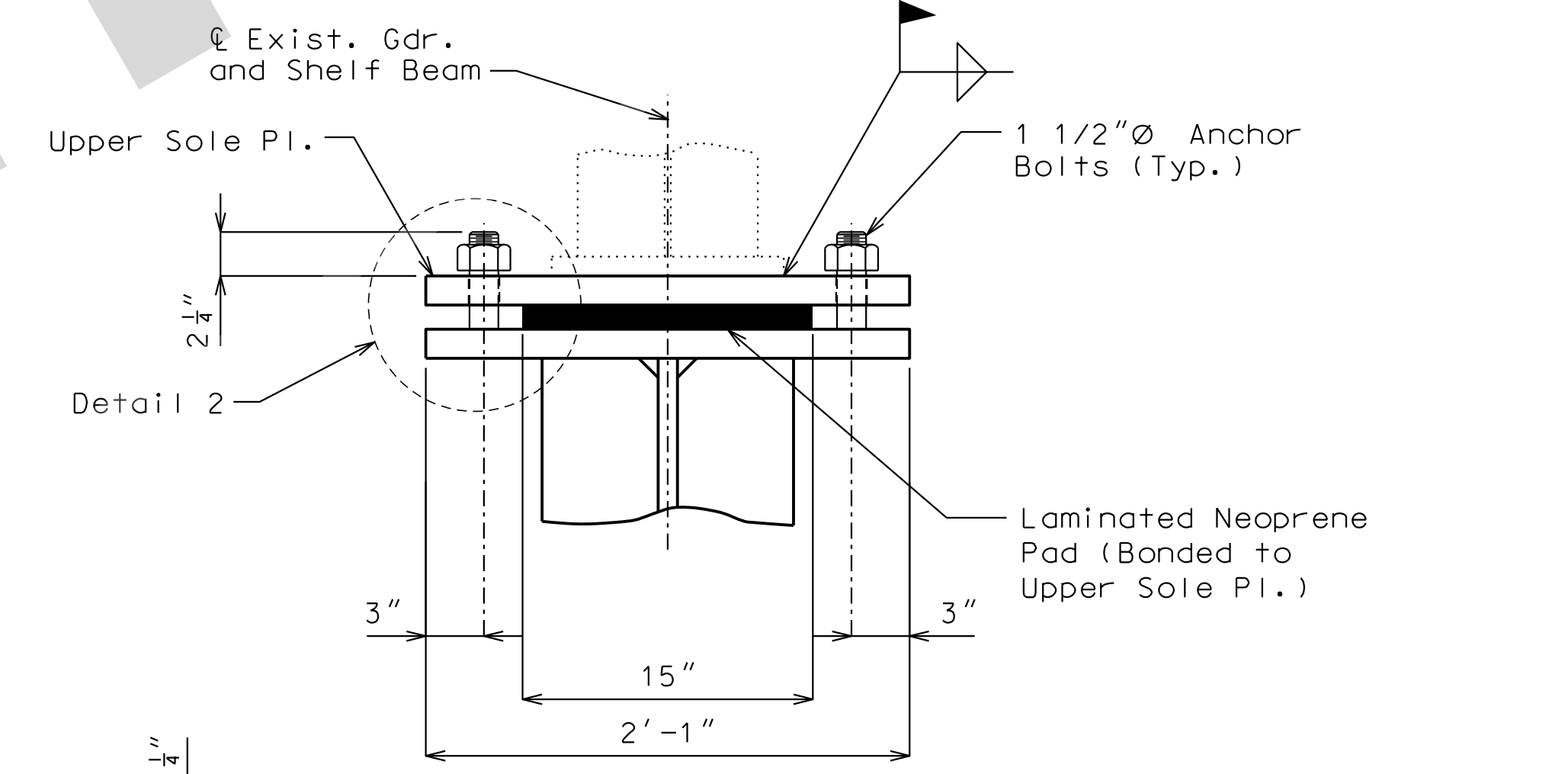


NEOPRENE ELASTOMERIC PAD

* The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.



PLAN



SECTION BEARING DETAIL

Note:

1" High-Strength Bolts shall be Grade A325 Type 1 bolts in 1 1/16" Holes.

Anchor bolts shall be 1 1/2" ASTM F1554 Grade 55 bolts, supplementary specification S1, with ASTM 563 Grade A Hex or Heavy Hex nuts.

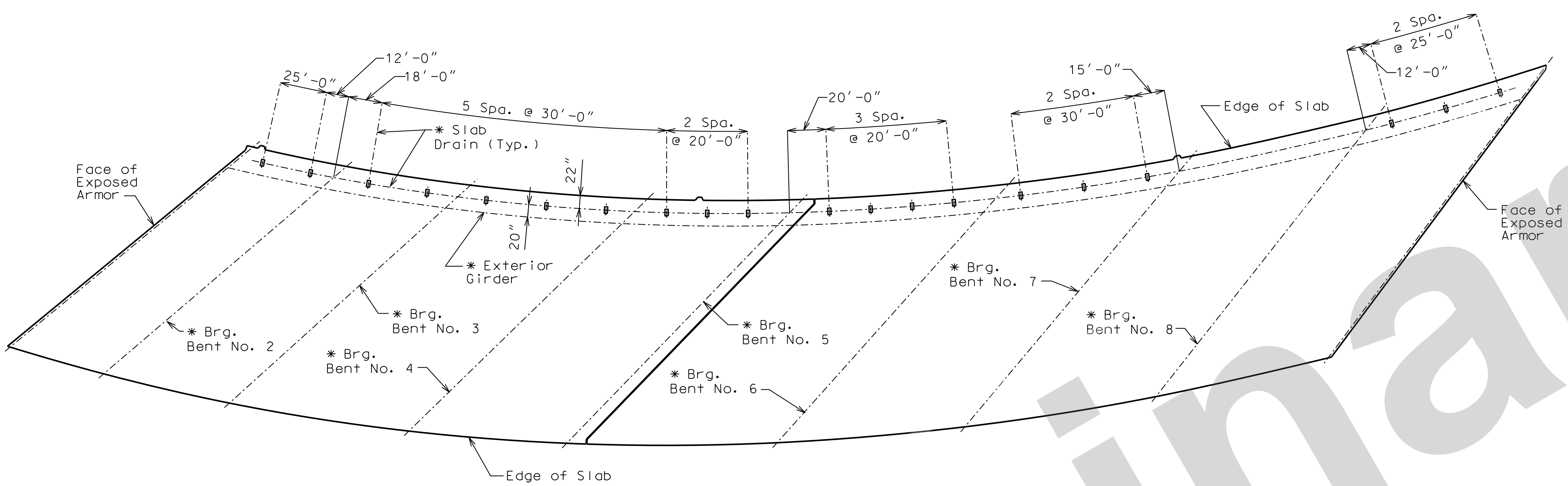
Anchor bolts and heavy hex nuts shall be coated with a minimum of two coats of inorganic zinc primer to provide a total dry film thickness of 4 mils minimum, 6 mils maximum, or galvanized in accordance with Sec 1081.

Neoprene Elastomeric Pads shall be 60 Durometer.

Laminated Neoprene Bearing Pad Assembly shall be in accordance with Sec 716.

The cost for the bearing assembly, including laminated neoprene pad, sole plate, and anchor bolts, complete in place, will be considered completely covered by the contract unit price for Laminated Neoprene Bearing Pad Assembly.

Work this sheet with Sheet No. 6.



PLAN OF SLAB SHOWING SLAB DRAIN LOCATIONS

General Notes:
 Contractor shall have the option to construct either steel or FRP slab drains. All drains shall be of same type.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Locate drains in slab by dimensions shown in Part Section Near Drain.

Reinforcing steel shall be shifted to clear drains.

The bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with AASHTO M 232 (ASTM A153), Class C.

All 1/2"* bolts shall be ASTM A307, except as shown.

Shop drawings will not be required for the slab drains and the bracket assembly.

The bolt hole for the bracket assembly attachment shall be shifted to the minimum extent necessary to field drill in the existing web.

(1) See front sheet for slab thickness.

Notes for Steel Drain:
 Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Outside dimensions of drains are 8" x 4".

The drains shall be galvanized in accordance with ASTM A123.

Notes for FRP Drain:
 Drains shall be machine filament-wound thermosetting resin tubing meeting the requirements of ASTM D2996 with the following exceptions:

Shape of drains shall be rectangular with outside nominal dimensions of 8" x 4".

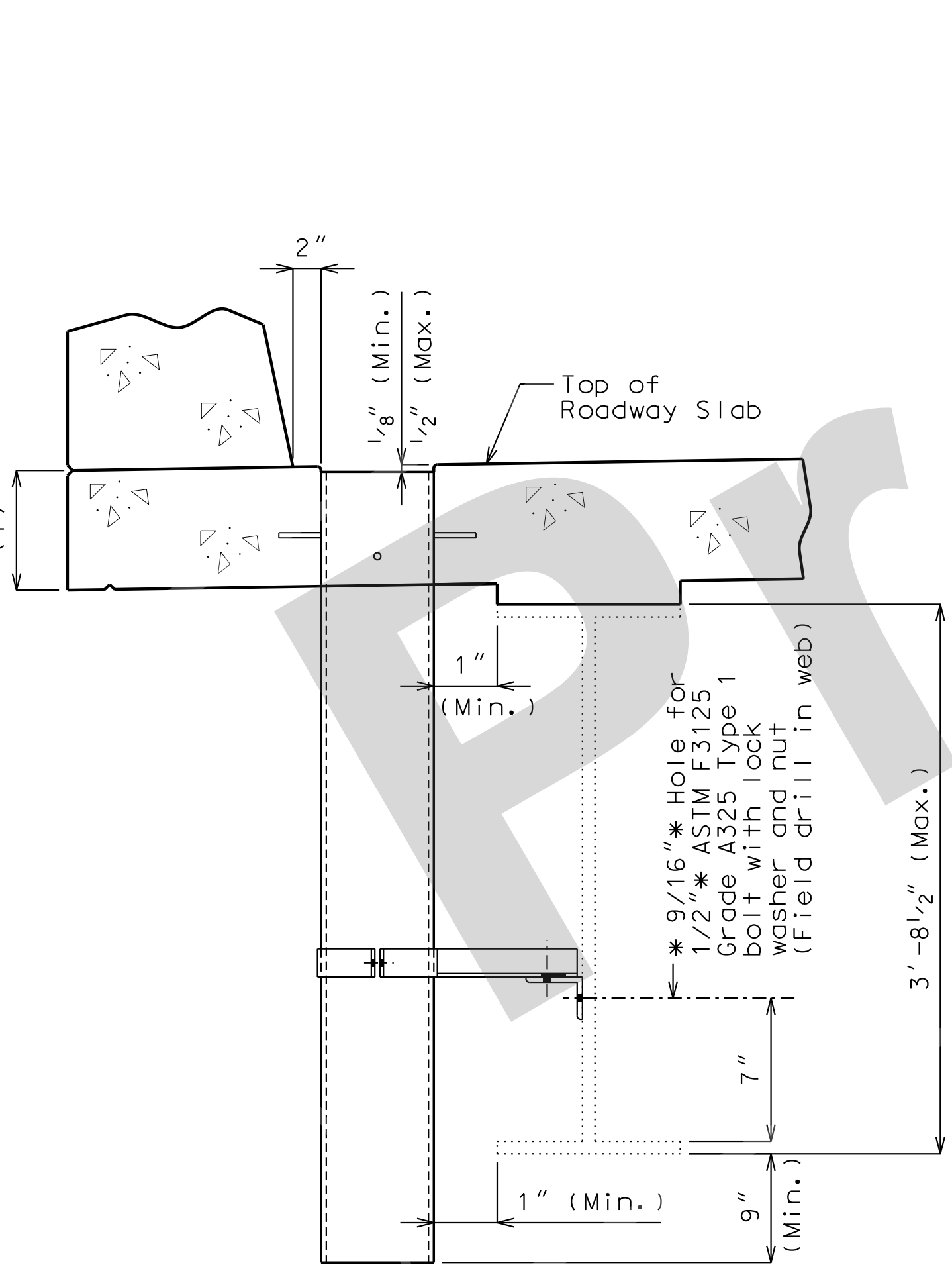
Minimum reinforced wall thickness shall be 1/4 inch.

The resin used shall be ultraviolet (UV) resistant and/or have UV inhibitors mixed throughout. Drains may have an exterior coating for additional UV resistance.

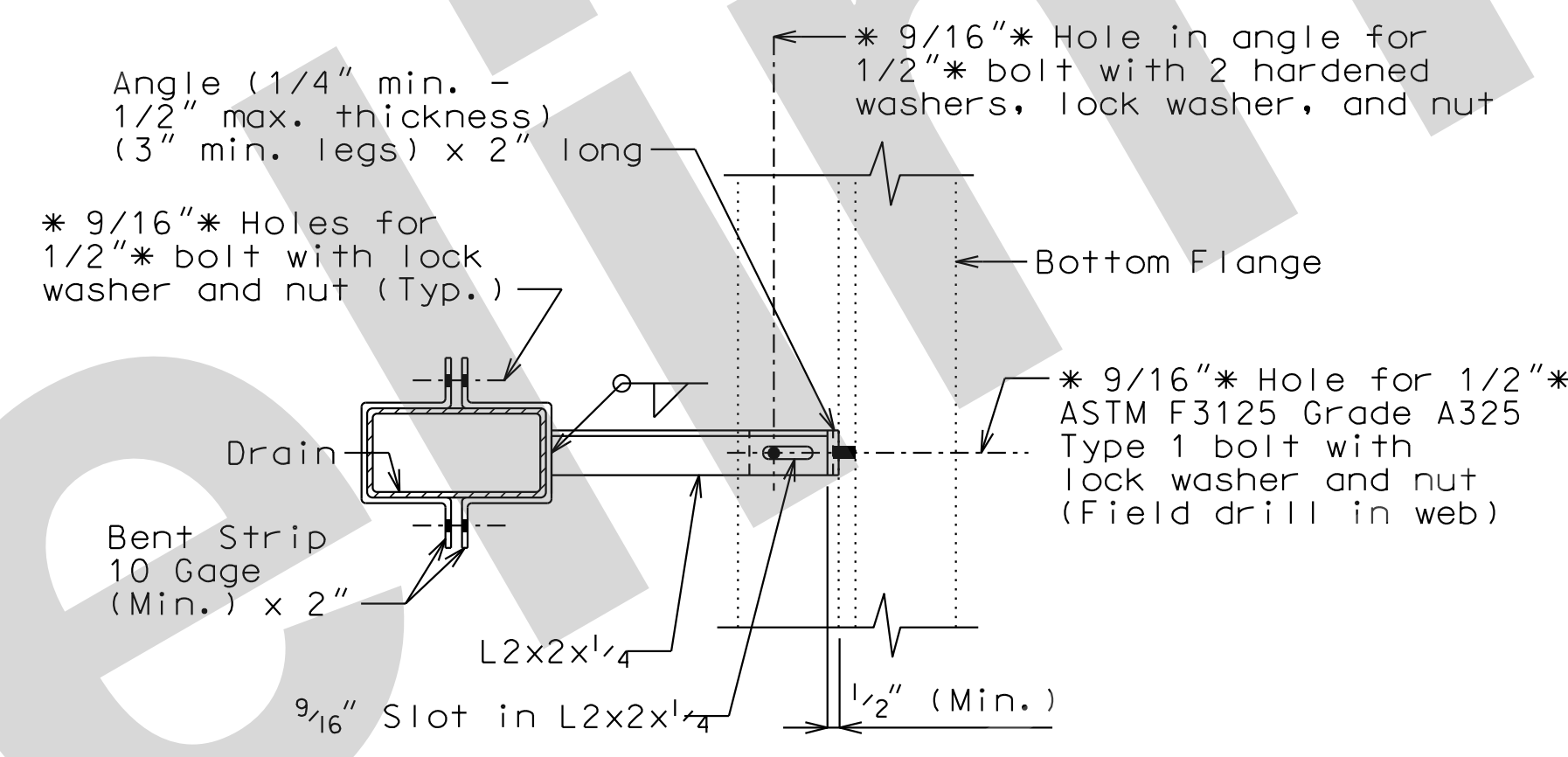
The color of the slab drain shall be gray (Federal Standard 26373). The color shall be uniform throughout the resin and any coating used.

The combination of materials used in the manufacture of the drains shall be tested for UV resistance in accordance with ASTM D4329 Cycle A. The representative material shall withstand at least 500 hours of testing with only minor discoloration and without any physical deterioration. The contractor shall furnish the results of the required ultraviolet testing prior to acceptance of the slab drains.

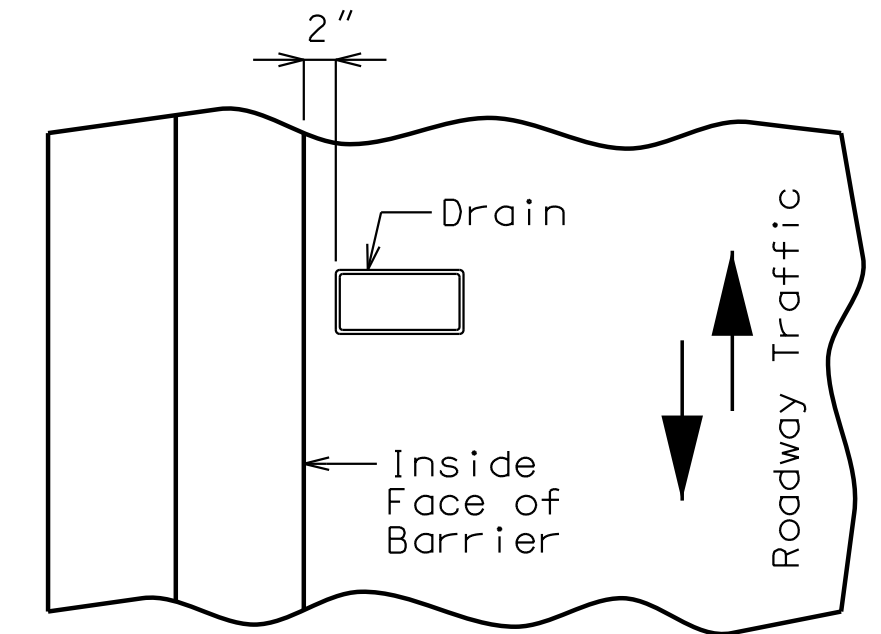
At the contractor's option, drains may be field cut. The method of cutting FRP slab drain shall be recommended by the manufacturer to ensure a smooth, chip free cut.



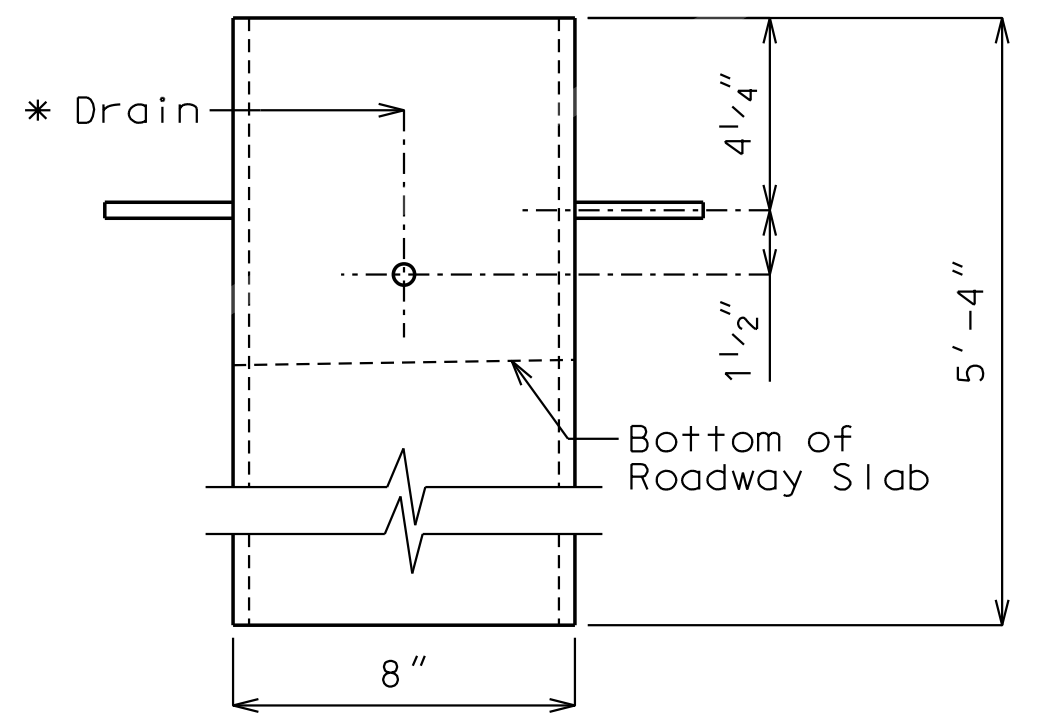
PART SECTION NEAR DRAIN



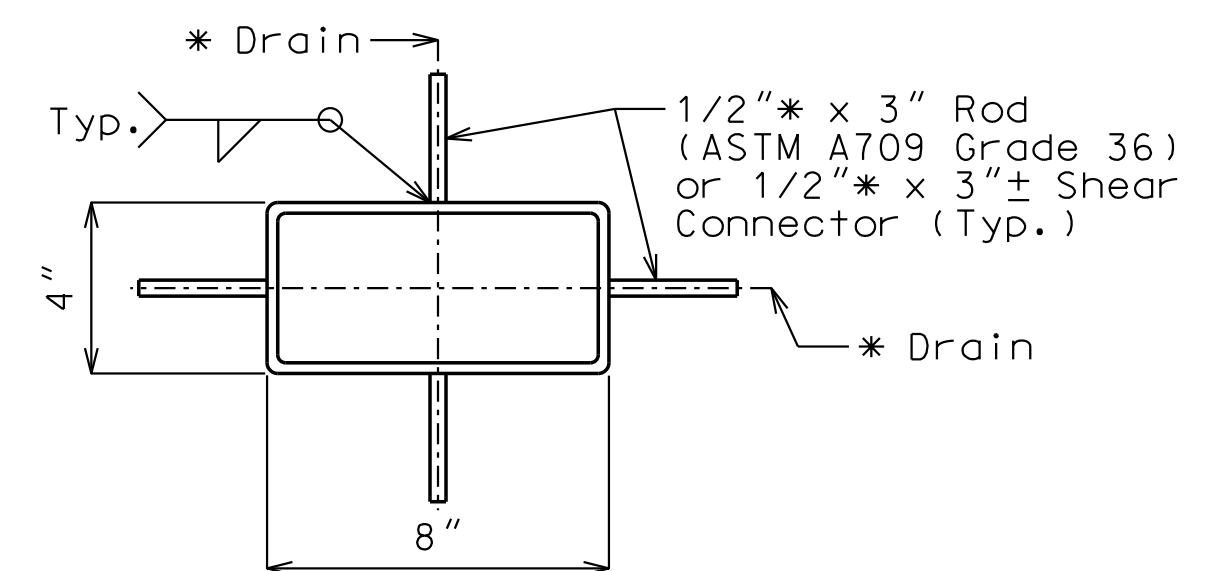
PART SECTION SHOWING BRACKET ASSEMBLY



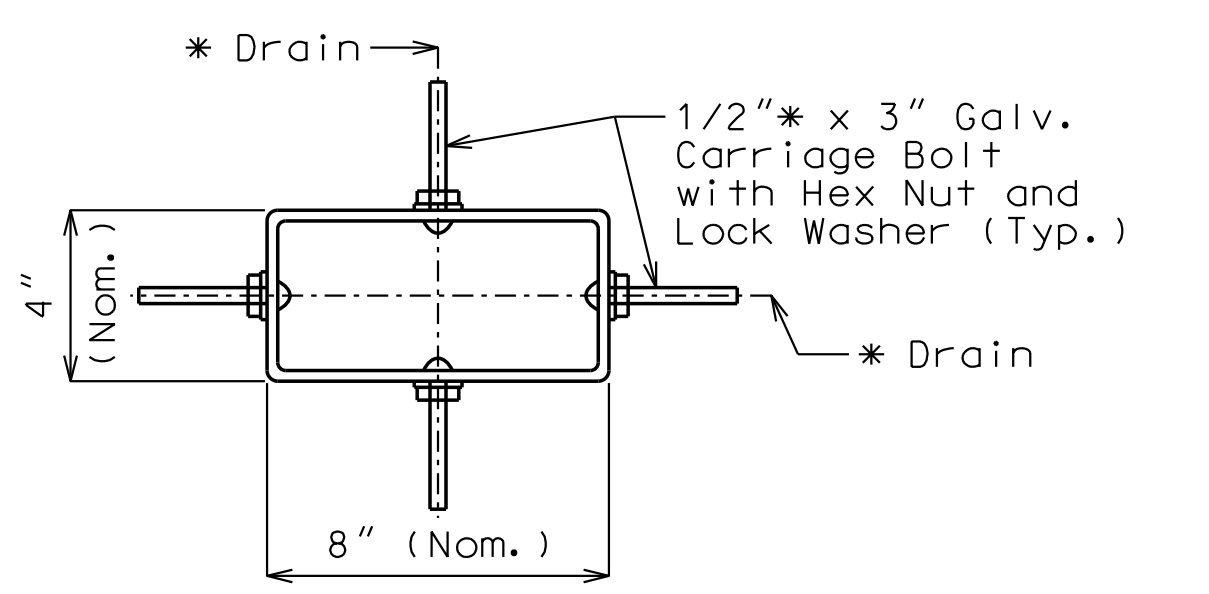
PART PLAN OF SLAB AT DRAIN



ELEVATION OF DRAIN



PLAN OF STEEL DRAIN OPTION

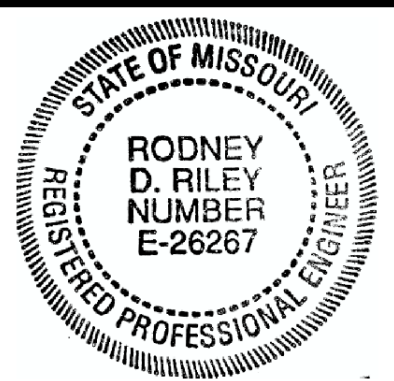


PLAN OF FRP DRAIN OPTION

SLAB DRAINS

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 25



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DATE PREPARED: 09-AUG-2021

ROUTE: I-55	STATE: MO
DISTRICT: BR	SHEET NO.: 8
COUNTY: ST. LOUIS	
JOB NO.: J613187	
CONTRACT ID.:	
PROJECT NO.:	
BRIDGE NO.: A12763	

DESCRIPTION	DATE

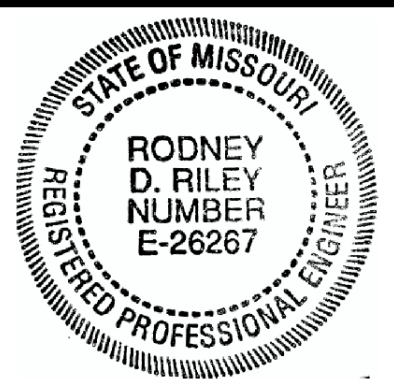
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
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DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 11

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL JEFFERSON CITY, MO 65102

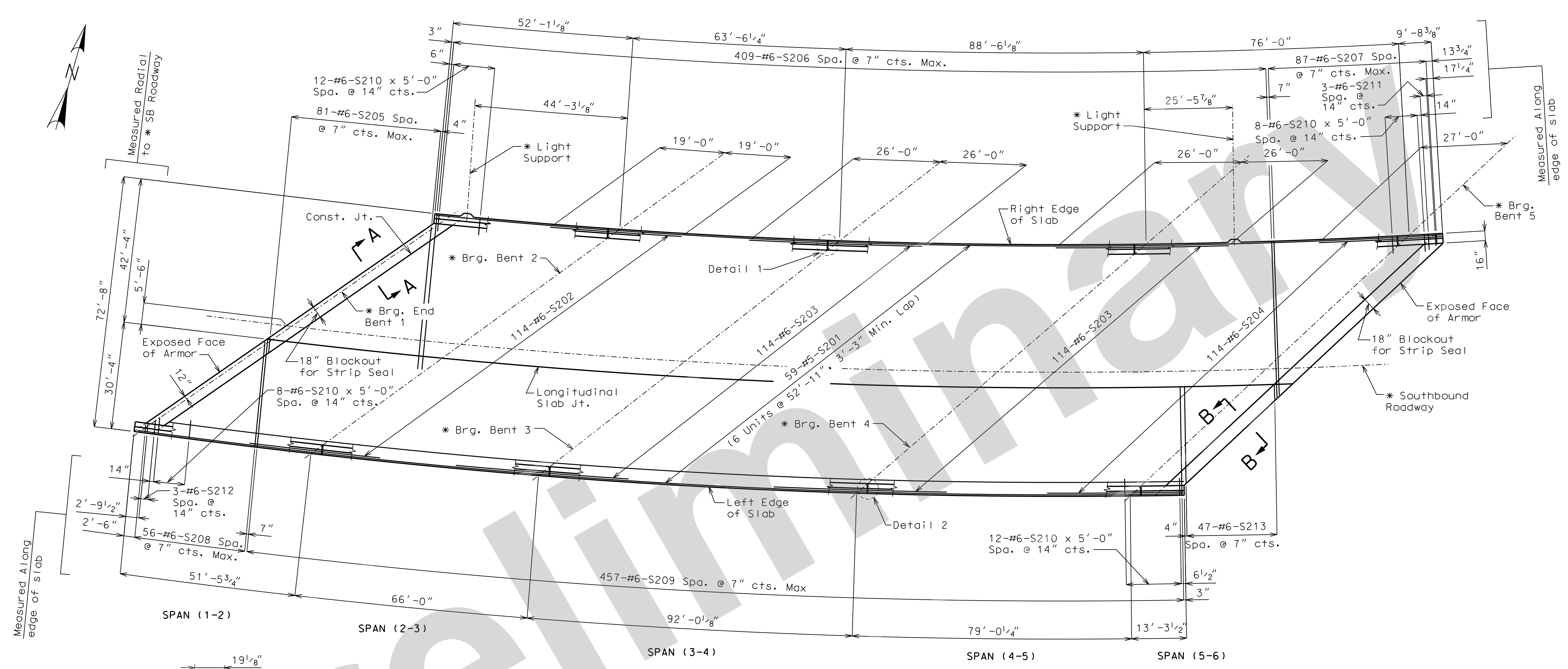
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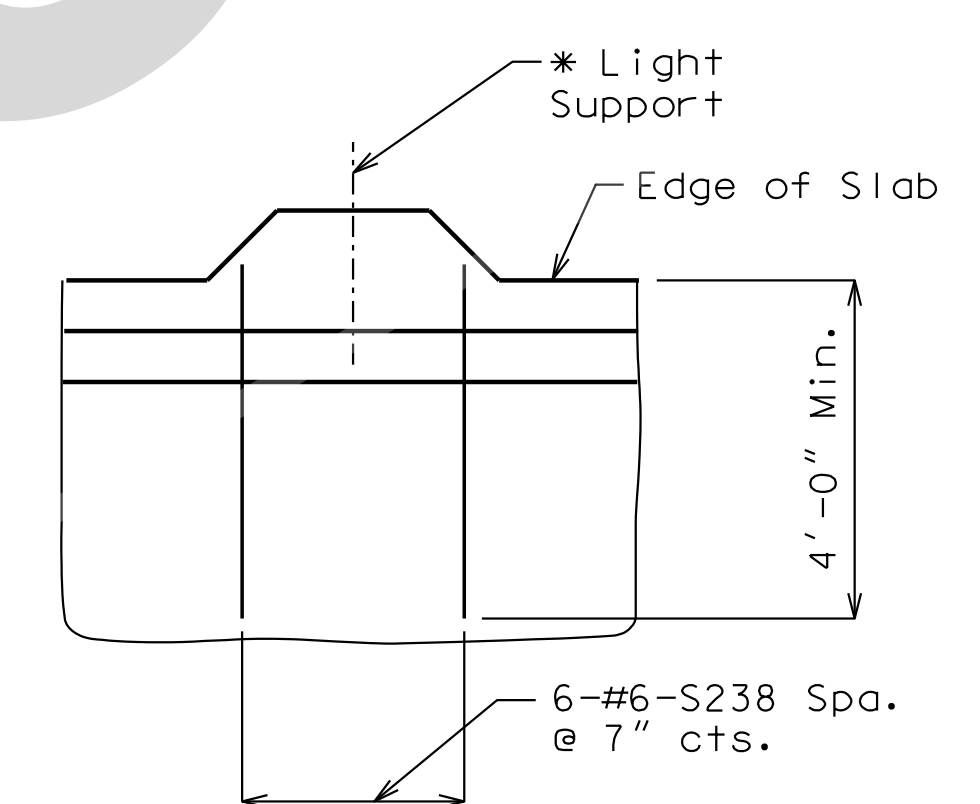
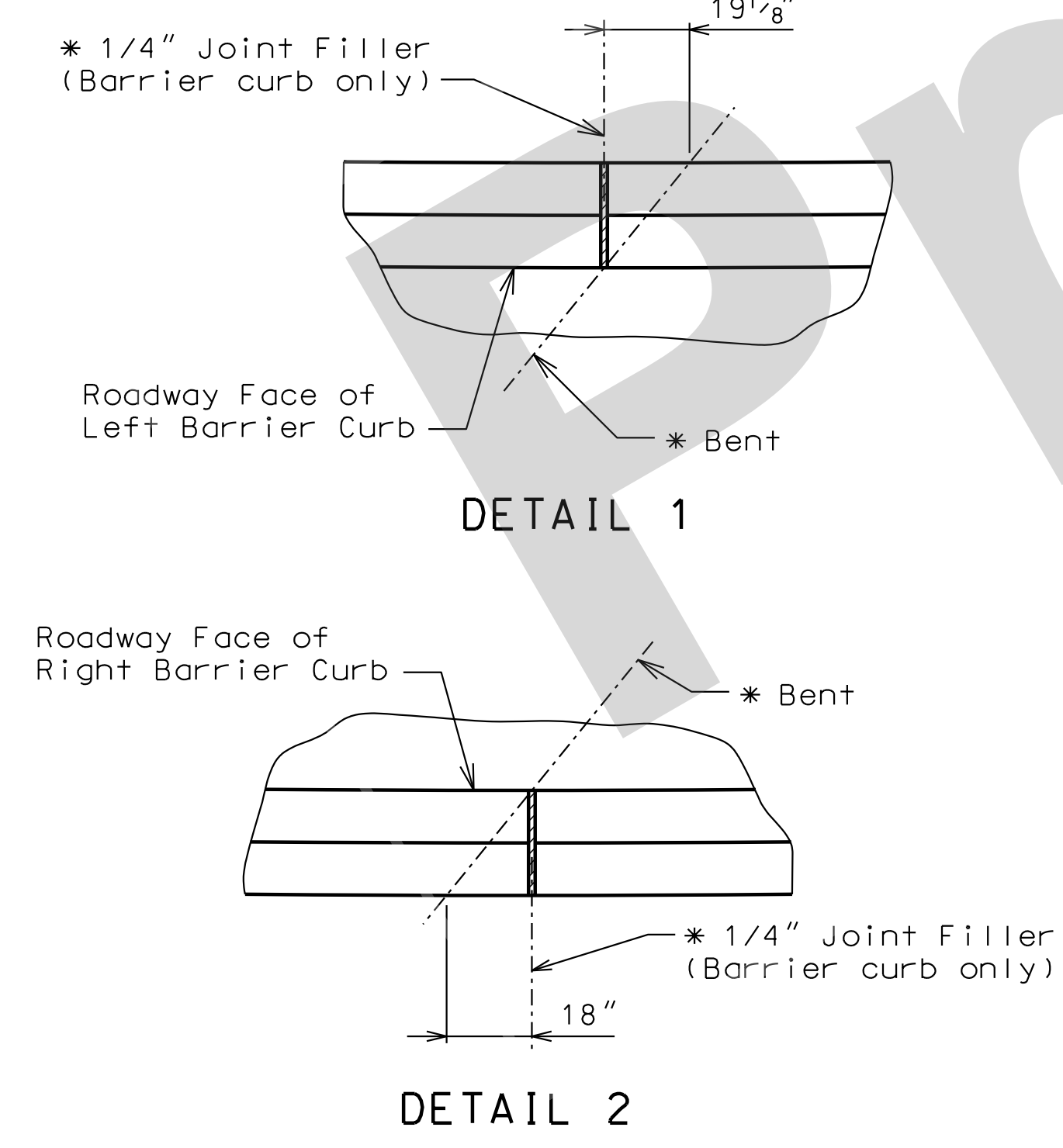
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CERTIFICATE OF AUTHORITY #00704

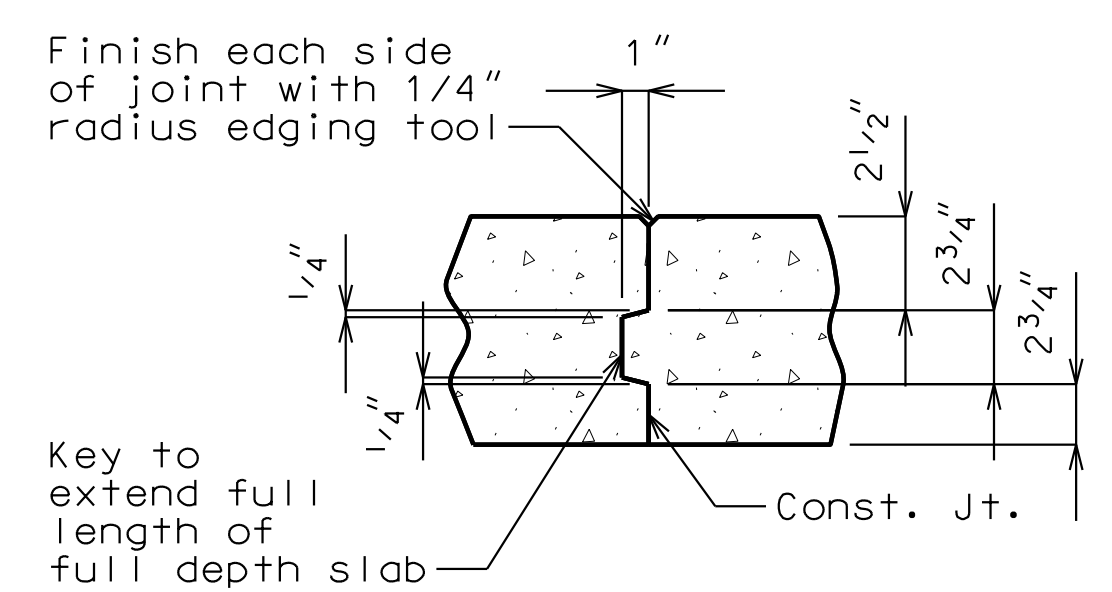
REV.



PLAN SHOWING TOP SLAB REINFORCEMENT



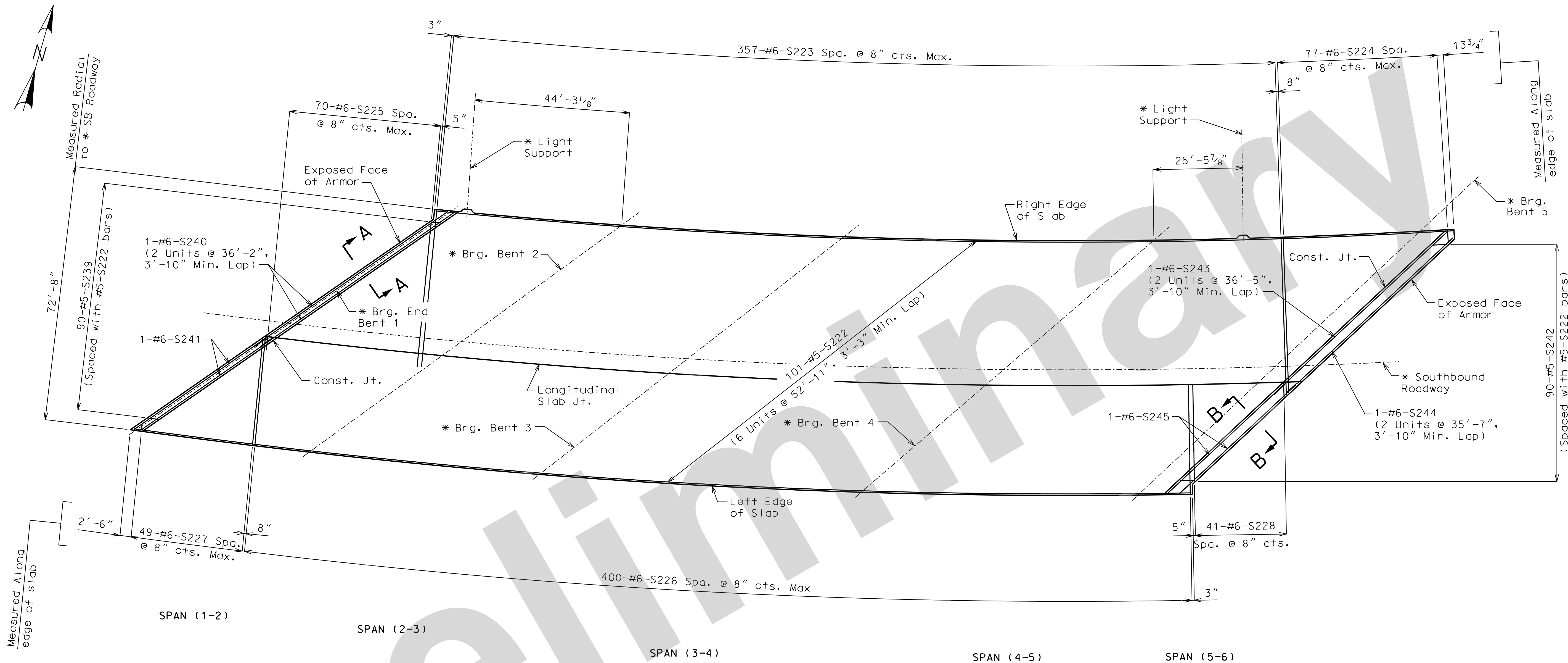
ADDITIONAL BARS AT LIGHT SUPPORTS



LONGITUDINAL SLAB JOINT

- Notes:
For General Notes, see Sheet No. 1.
Longitudinal dimensions shown are horizontal arc dimensions.
Transverse reinforcement to be placed radially and spaced along edge of slab as shown.
For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
For Section thru Haunch, see Sheet No. 1.
For Location of Slab Drains, see Sheet No. 8.
For Details of Expansion Devices, see Sheets No. 9 and 10.
For Sections A-A and B-B, see Sheet No. 12.
For Bottom Slab Reinforcement Plan, see Sheet No. 13.
For Slab Pouring sequence, see Sheet No. 15.
For Details of Safety Barrier Curb, see Sheets No. 17 and 18.
For Light Support Details, see Sheet No. 17.

PLAN OF SLAB SHOWING REINFORCEMENT



PLAN SHOWING BOTTOM SLAB REINFORCEMENT

PLAN OF SLAB SHOWING REINFORCEMENT

Notes:

For General Notes, see Sheet No. 1.

Longitudinal dimensions shown are horizontal arc dimensions.

Transverse reinforcement to be placed radially and spaced along edge of slab as shown.

For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.

For Section thru Haunch, see Sheet No. 1.

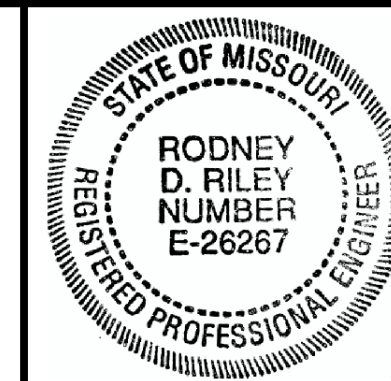
For Top Slab Reinforcement Plans, see Sheets No. 11 and 12.

For Sections A-A and B-B, see Sheet No. 12.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 13 of 25



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DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 13

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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1-888-ASK-MODOT (1-888-275-6636)

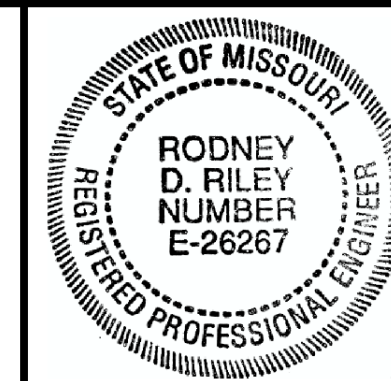
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ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 14

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

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105 WEST CAPITOL JEFFERSON CITY, MO 65102

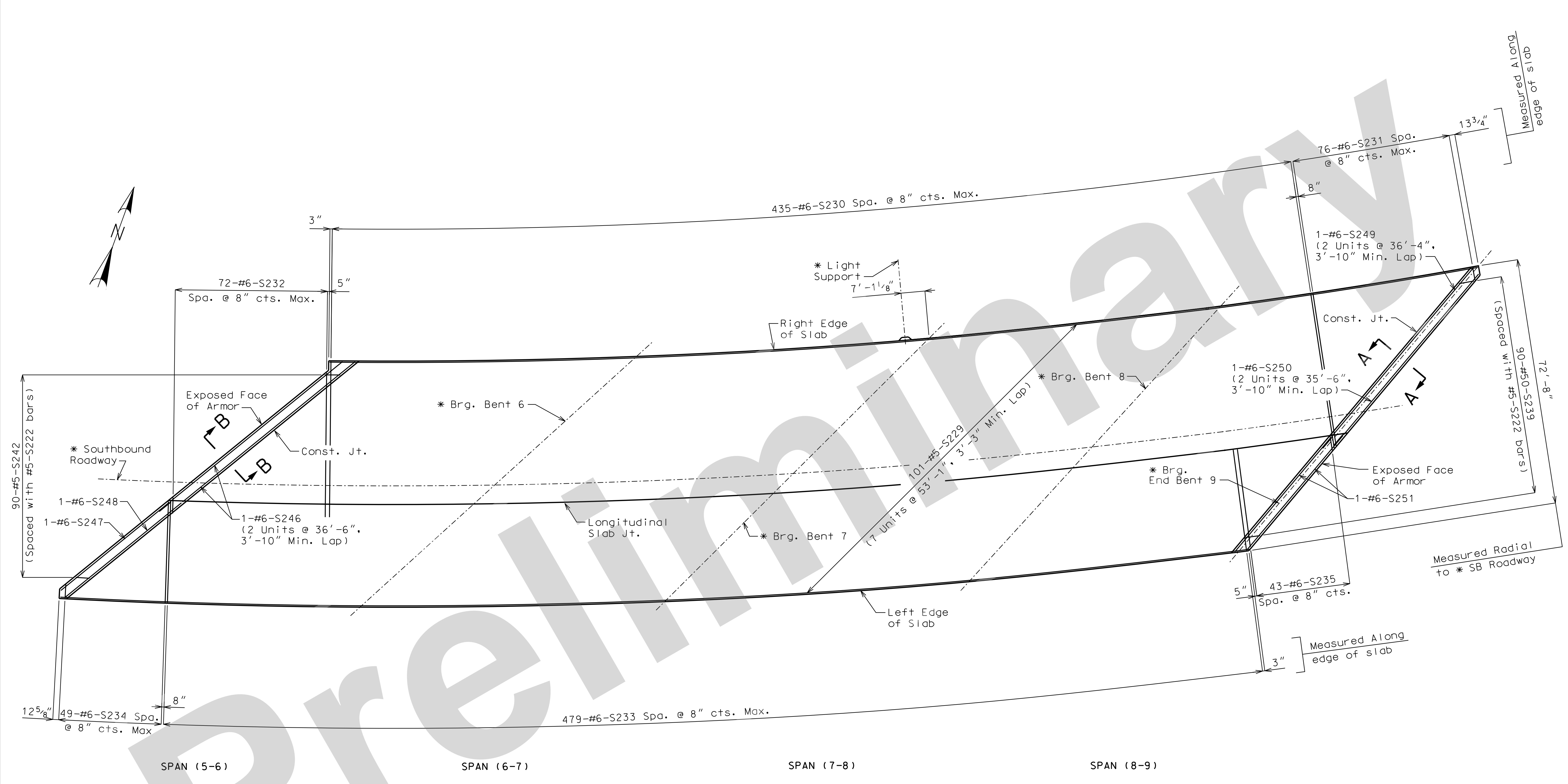
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JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



PLAN SHOWING BOTTOM SLAB REINFORCEMENT

PLAN OF SLAB SHOWING REINFORCEMENT

- Notes:
- For General Notes, see Sheet No. 1.
 - Longitudinal dimensions shown are horizontal arc dimensions.
 - Transverse reinforcement to be placed radially and spaced along edge of slab as shown.
 - For Section Thru Slab and longitudinal reinforcement spacing, see Sheet No. 1.
 - For Section thru Haunch, see Sheet No. 1.
 - For Top Slab Reinforcement Plans, see Sheets No. 10 and 11.
 - For Sections A-A and B-B, see Sheet No. 11.

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 25



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 15

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL

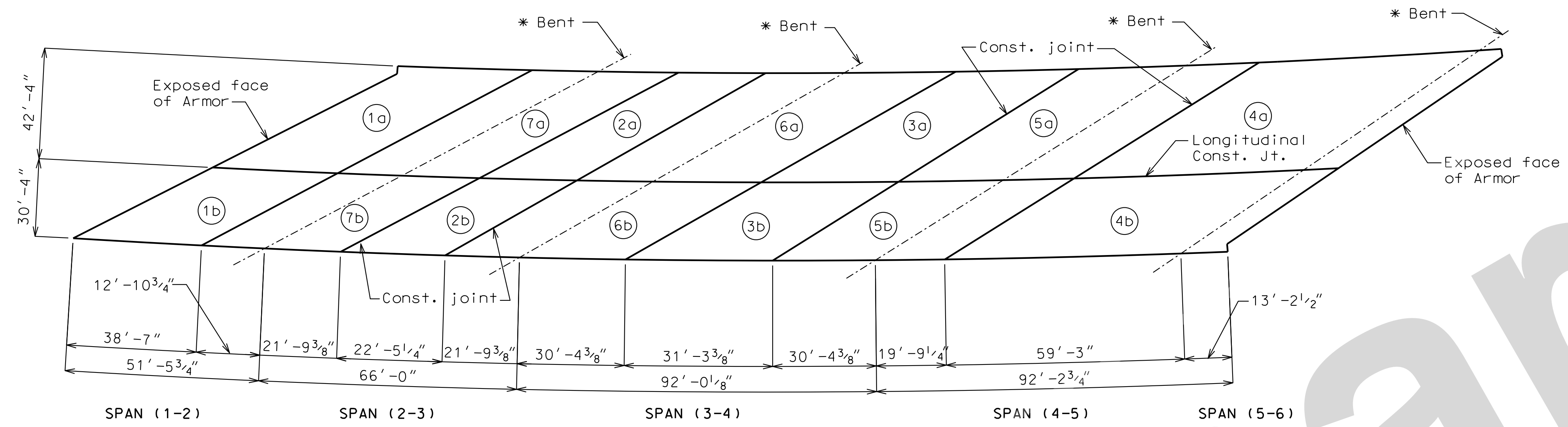
JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

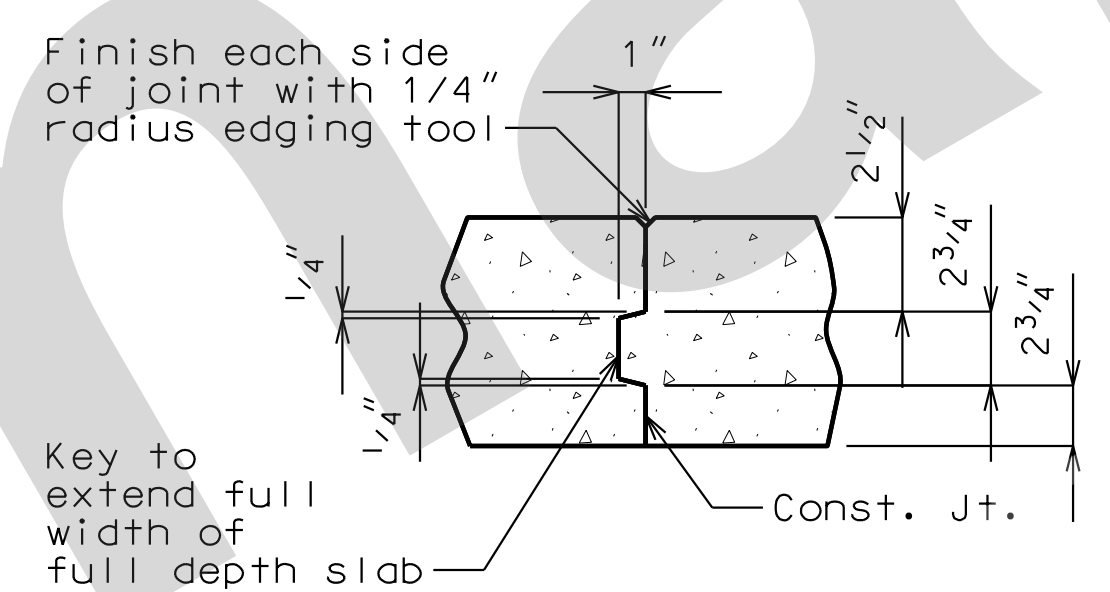
JACOBS

ST. LOUIS, MISSOURI 63102-2121

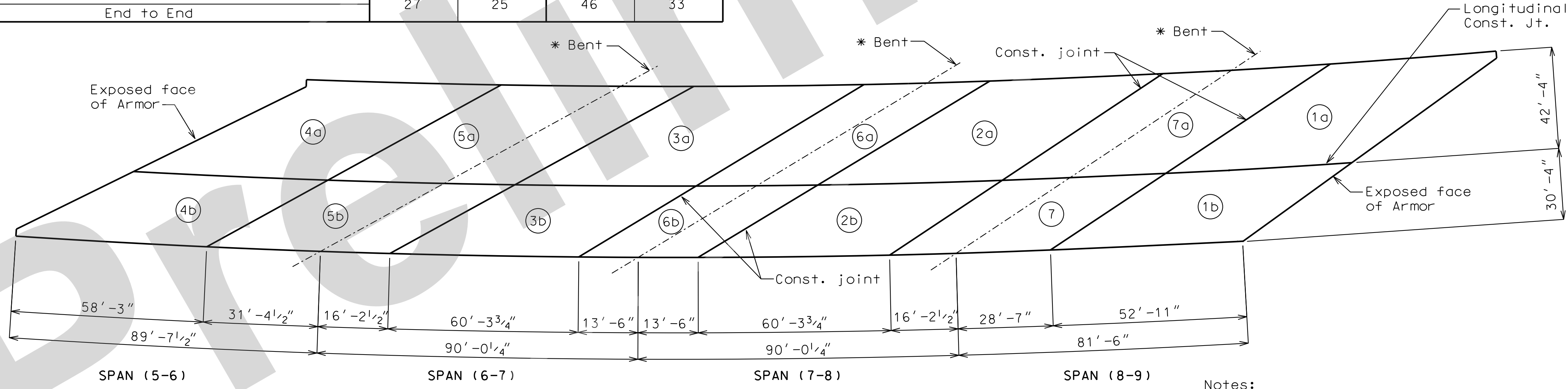
CERTIFICATE OF AUTHORITY #00704



Sequence of Pours - Span (1-2) to Span (5-6)											
Basic Sequence	Direction							With Retarder		Without Retarder	
	1	2	3	4	5	6	7	a	b	a	b
	Either Direction							25	25	25	25
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.											
Alternate A Pours	1	7 + 2	6 + 3	5 + 4							
	End to 7	1 to 6	2 to 5	3 to End	27	25	46	33			
Alternate B Pours	1 + 7 + 2	6 + 3	5 + 4								
	End to 6	2 to 5	3 to End	27	25	46	33				
Alternate C Pours	1 + 7 + 2	6 + 3 + 5 + 4									
	End to 6	2 to End		27	25	46	33				
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4										
	End to End				27	25	46	33			



SLAB CONSTRUCTION JOINT



Sequence of Pours Span (5-6) to Span (8-9)											
Basic Sequence	Direction							With Retarder		Without Retarder	
	1	2	3	4	5	6	7	a	b	a	b
	Either Direction							25	25	25	25
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703.											
Alternate A Pours	1	7 + 2	6 + 3	5 + 4							
	End to 7	1 to 6	2 to 5	3 to End	27	25	45	32			
Alternate B Pours	1 + 7 + 2	6 + 3	5 + 4								
	End to 6	2 to 5	3 to End	27	25	45	32				
Alternate C Pours	1 + 7 + 2	6 + 3 + 5 + 4									
	End to 6	2 to End		27	25	45	32				
Alternate D Pours	1 + 7 + 2 + 6 + 3 + 5 + 4										
	End to End				27	25	45	32			

Notes:

For General Notes, see Sheet 1.

The contractor shall determine dead load deflections and haunching based on field measurements and / or existing bridge plans and these may be adjusted based on the difference between the new and existing dead load weights.

The contractor shall pour and satisfactorily finish the slab pour at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

Alternate pour sequences may be submitted to the engineer for approval. Keyed construction joints shall be provided between pours.

The longitudinal slab joints may be omitted with the approval of the engineer. When the longitudinal slab joint is omitted, the minimum rate of pour for alternate pouring sequences shall be increased by a factor of 1.7.

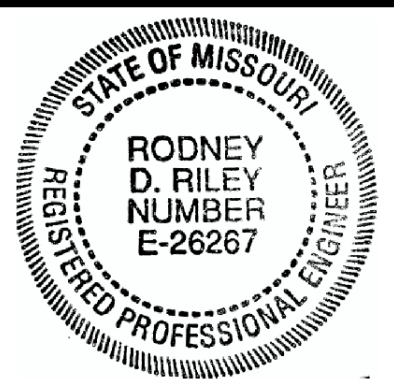
For Longitudinal Slab Jt. Detail, see Sheet No. 11.

SLAB POURING SEQUENCE

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 15 of 25



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 16

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102

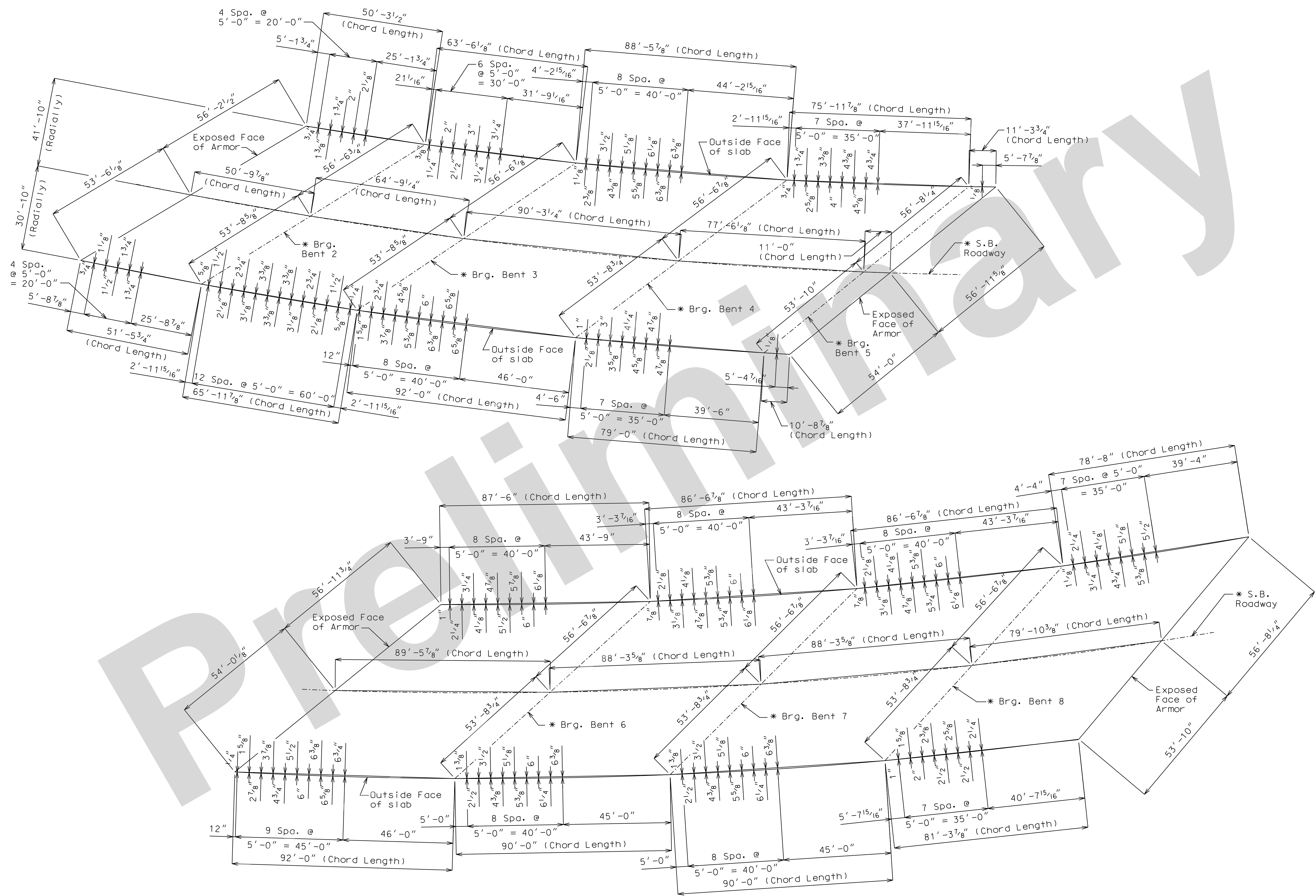
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 901 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704

REV.



PLAN

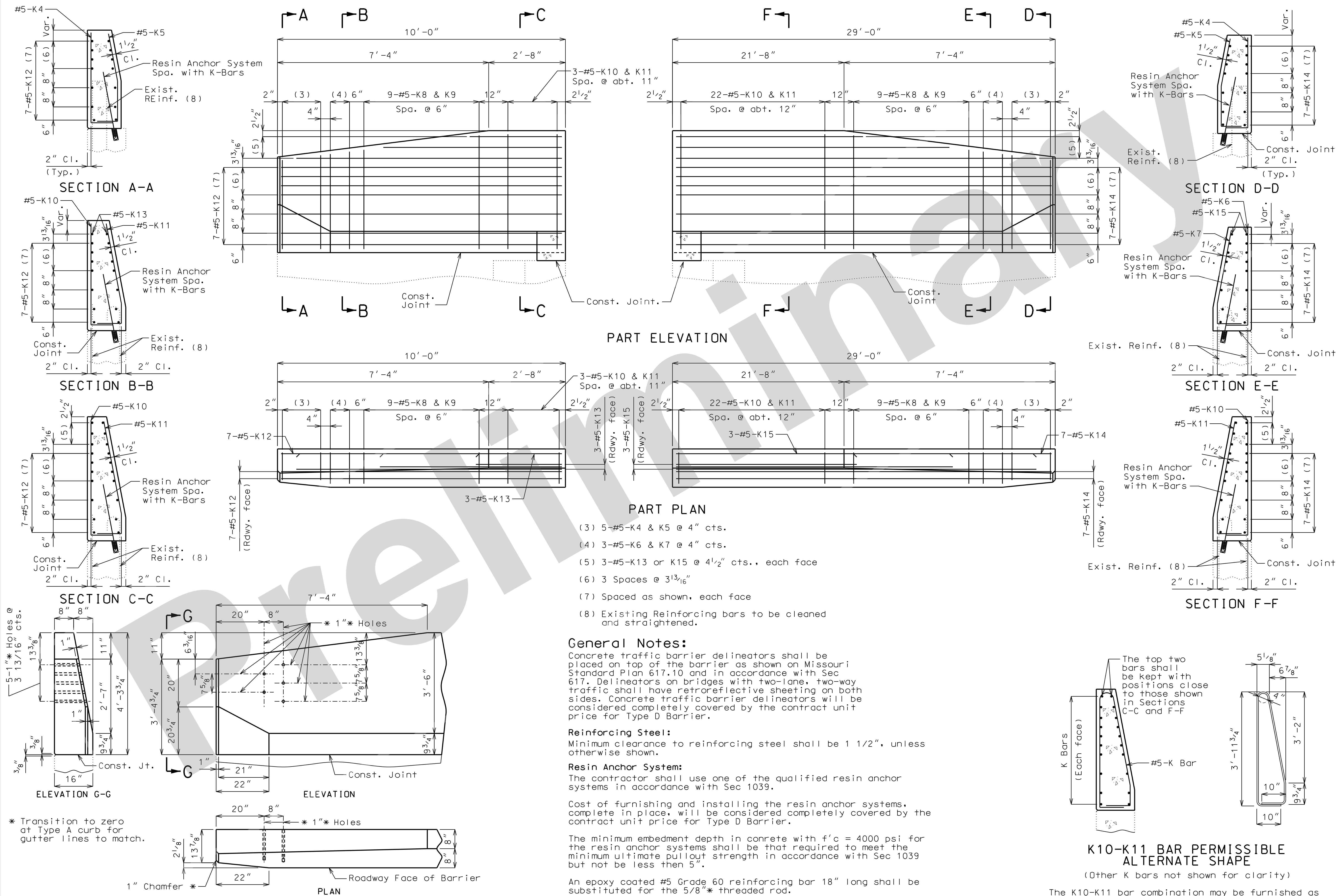
All dimensions shown are horizontal.

SLAB CURVE ORDINATES

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 25



- (3) 5-#5-K4 & K5 @ 4" cts.
- (4) 3-#5-K6 & K7 @ 4" cts.
- (5) 3-#5-K13 or K15 @ 4 1/2" cts., each face
- (6) 3 Spaces @ 3 13/16"
- (7) Spaced as shown, each face
- (8) Existing Reinforcing bars to be cleaned and straightened.

General Notes:
 Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

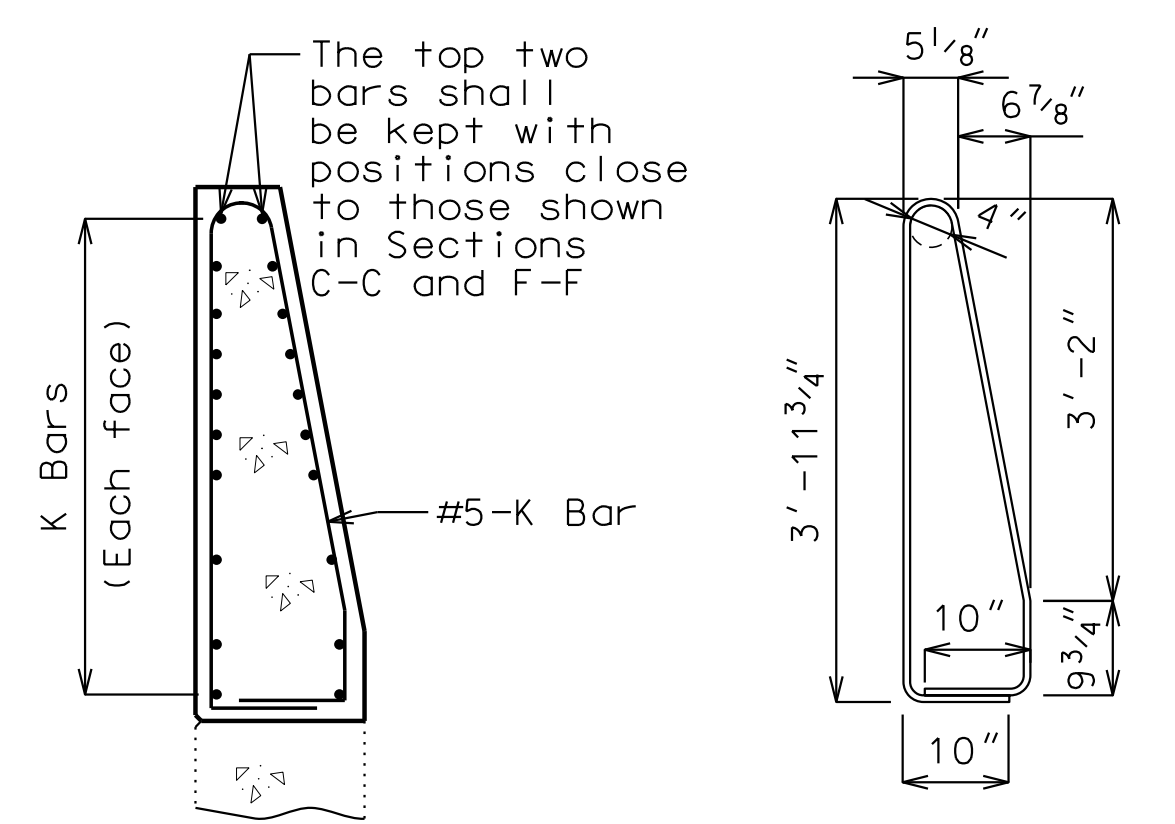
Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Resin Anchor System:
 The contractor shall use one of the qualified resin anchor systems in accordance with Sec 1039.

Cost of furnishing and installing the resin anchor systems, complete in place, will be considered completely covered by the contract unit price for Type D Barrier.

The minimum embedment depth in concrete with f'c = 4000 psi for the resin anchor systems shall be that required to meet the minimum ultimate pullout strength in accordance with Sec 1039 but not be less than 5".

An epoxy coated #5 Grade 60 reinforcing bar 18" long shall be substituted for the 5/8" * threaded rod.



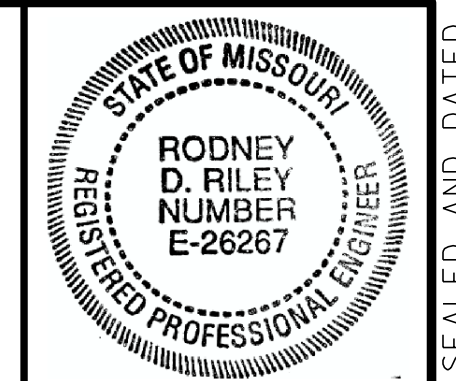
K10-K11 BAR PERMISSIBLE ALTERNATE SHAPE
 (Other K bars not shown for clarity)

The K10-K11 bar combination may be furnished as one bar as shown, at the contractor's option.

Detailed June 2021
 Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 19 of 25



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY
 DATE PREPARED 09-AUG-2021
 ROUTE I-55 STATE MO
 DISTRICT BR SHEET NO. 19

COUNTY ST. LOUIS
 JOB NO. J613187
 CONTRACT ID.

PROJECT NO.
 BRIDGE NO. A12763

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

Jacobs
 JACOBS ENGINEERING GROUP
 901 NORTH BROADWAY
 ST. LOUIS, MISSOURI 63102-2121
 CERTIFICATE OF AUTHORITY #00704



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DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 20

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

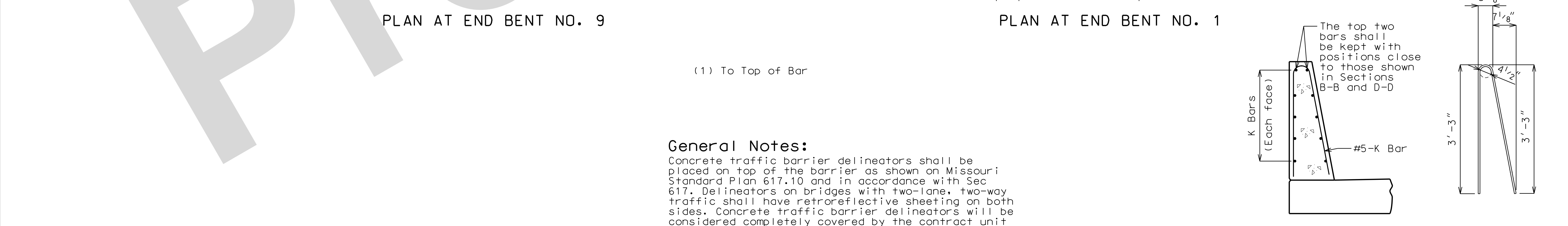
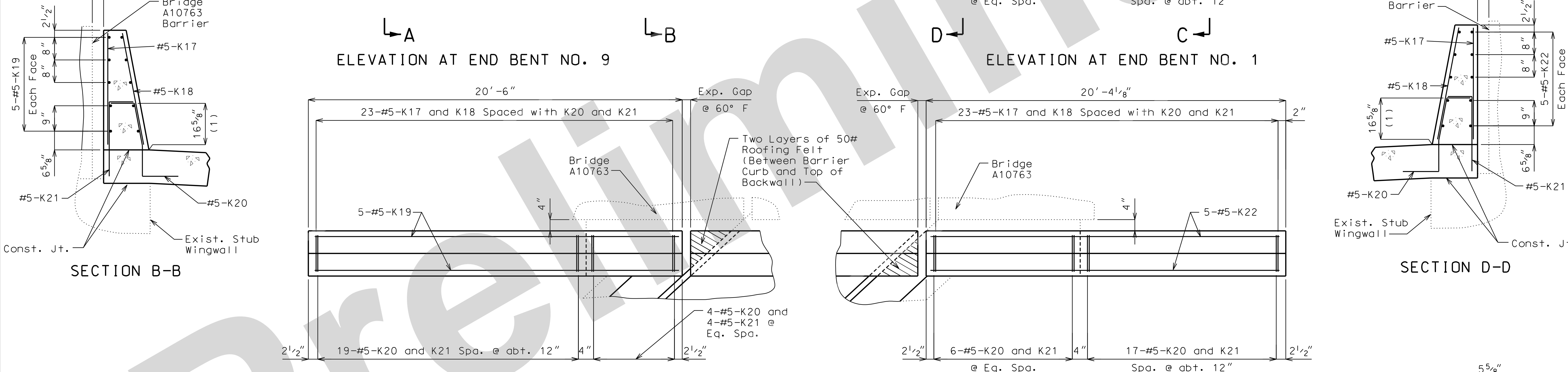
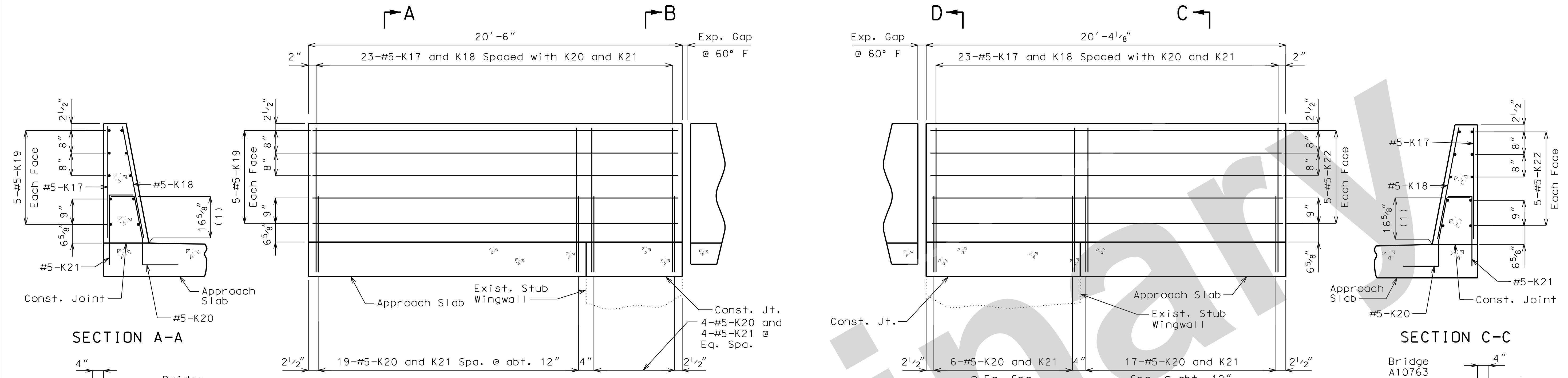
105 WEST CAPITAL JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP 601 NORTH BROADWAY ST. LOUIS, MISSOURI 63102-2121

CERTIFICATE OF AUTHORITY #00704



General Notes:

Concrete traffic barrier delineators shall be placed on top of the barrier as shown on Missouri Standard Plan 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Type D Barrier.

Reinforcing Steel:

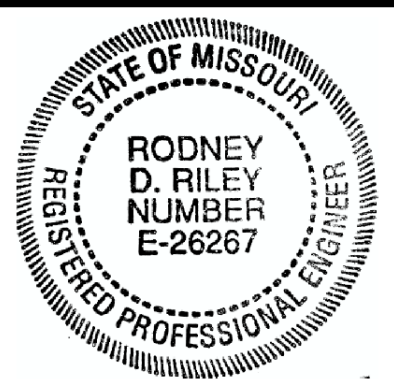
Minimum clearance to reinforcing steel shall be 1 1/2" except as shown for bars embedded into end bent.

LEFT BARRIER CURB (TYPE D) AT END BENTS

Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 20 of 25



THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 22

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

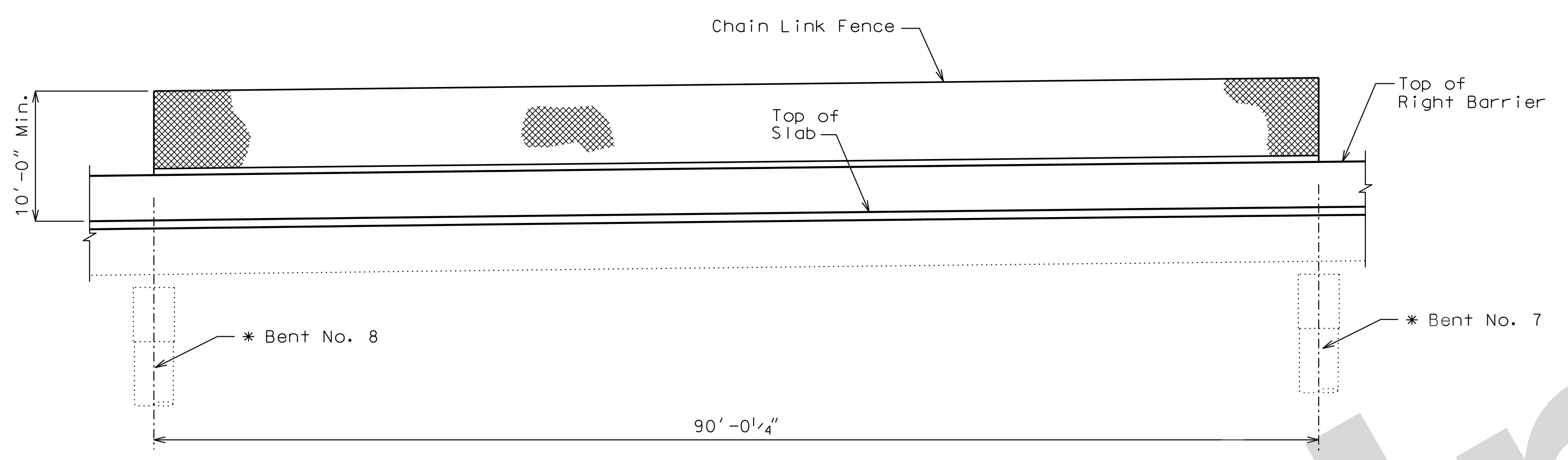
BRIDGE NO. A12763

DATE	DESCRIPTION

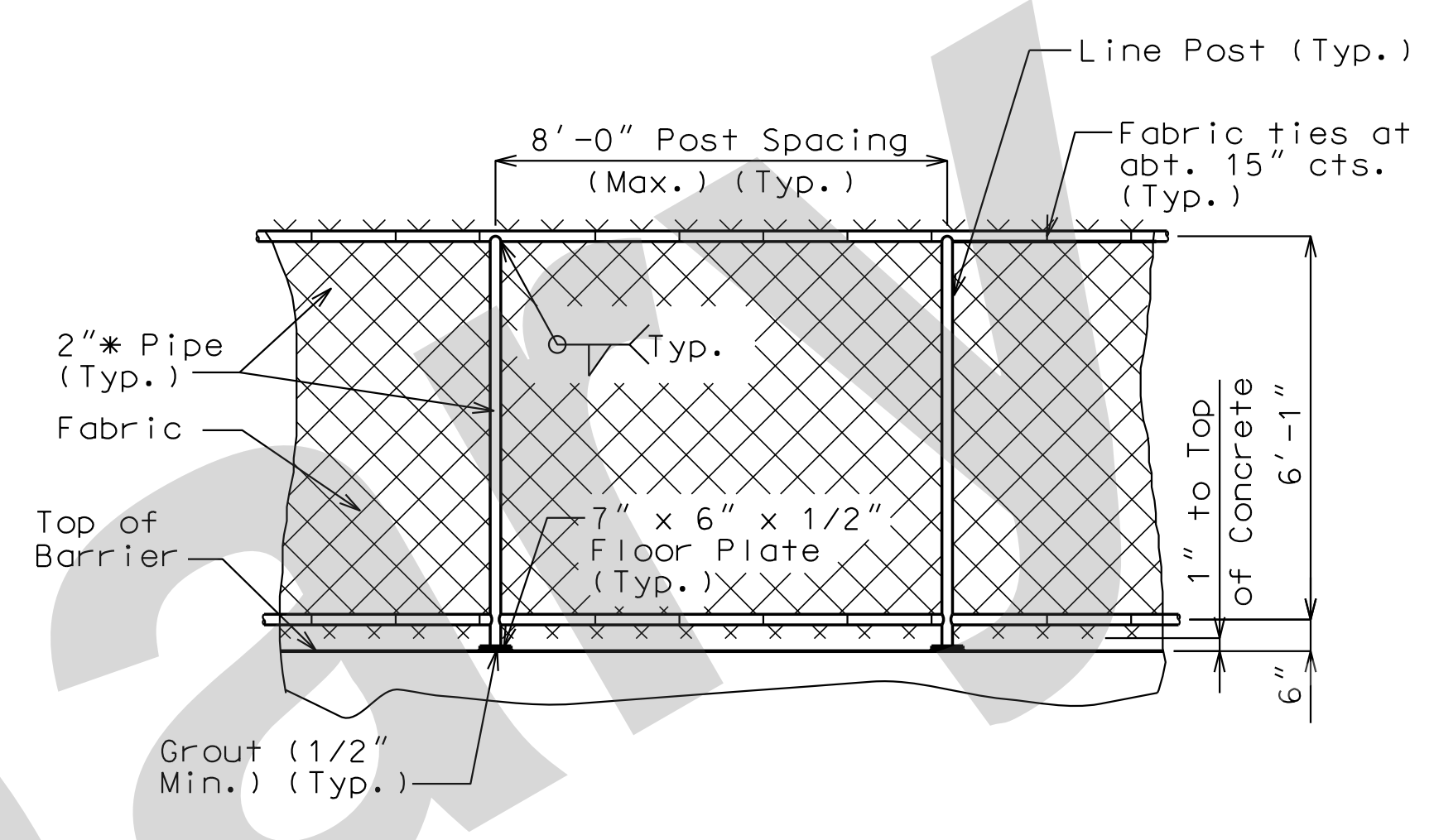
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

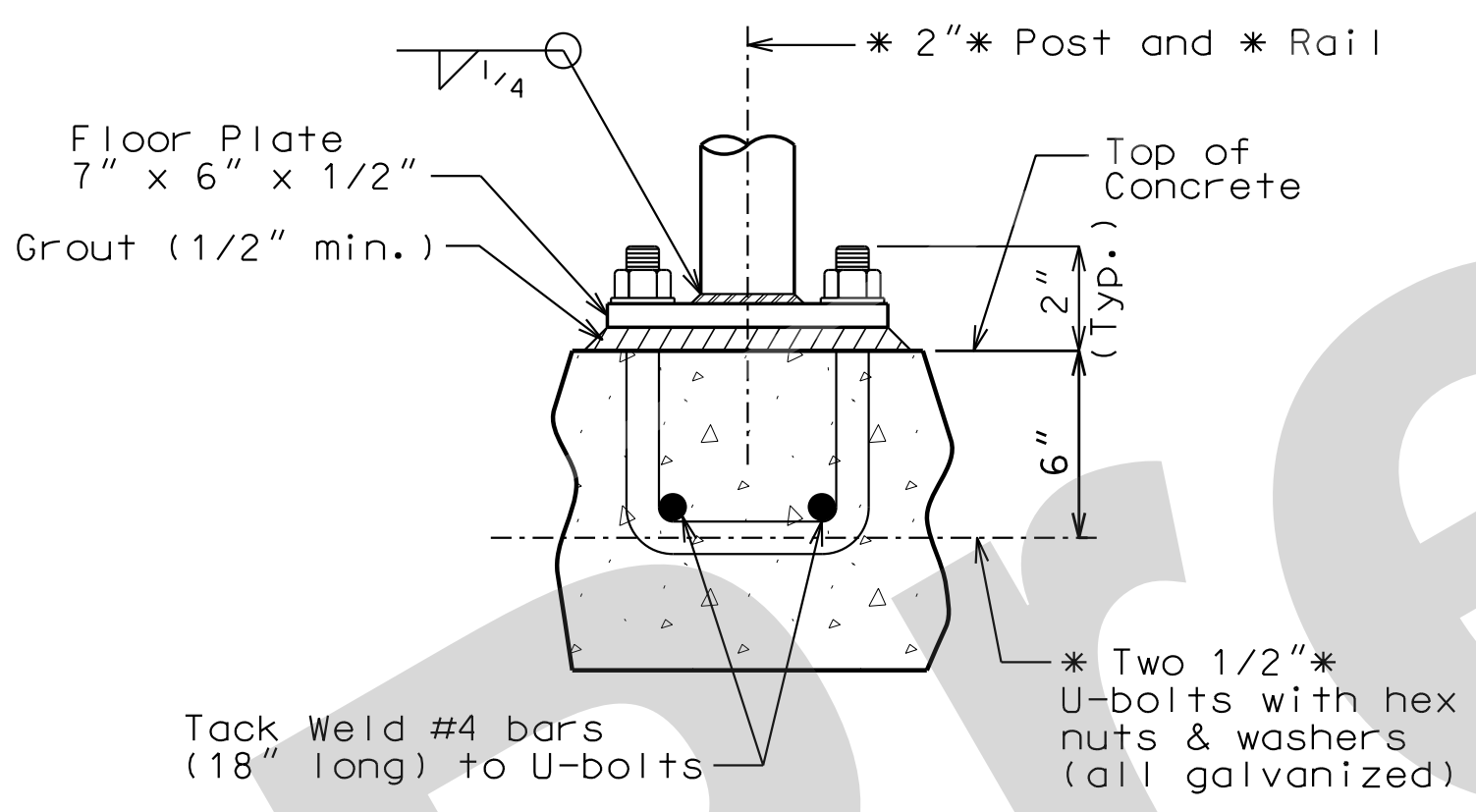
JACOBS
JACOBS ENGINEERING GROUP
901 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
CERTIFICATE OF AUTHORITY #00704



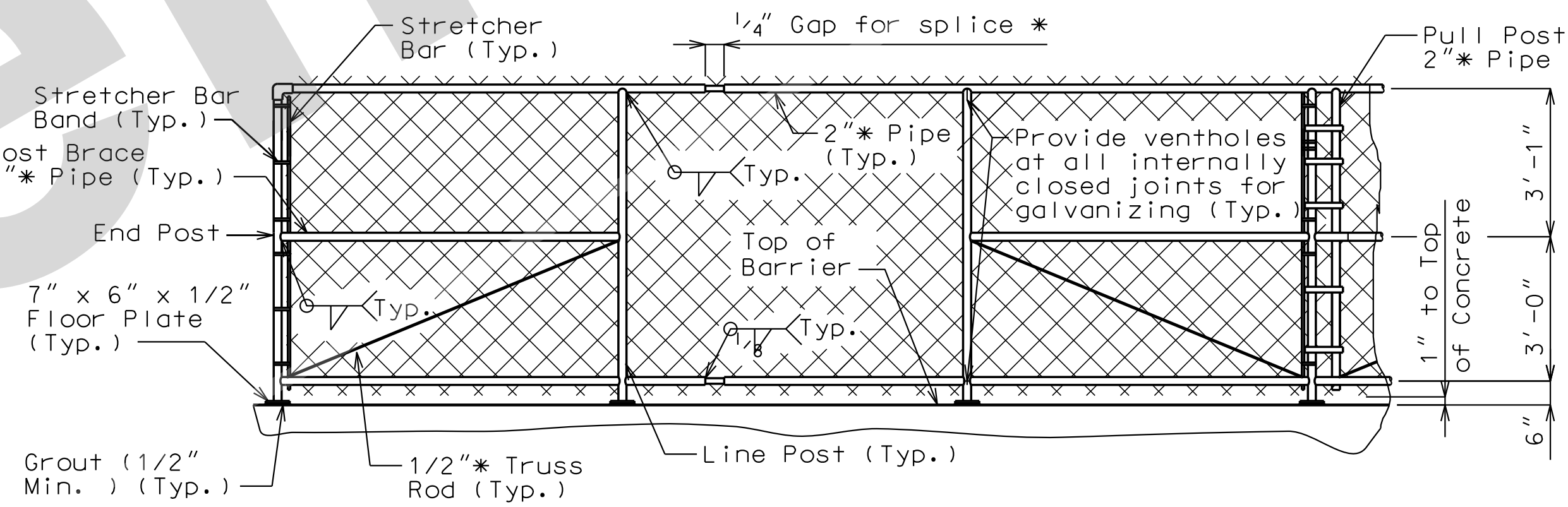
PART ELEVATION SHOWING CHAIN LINK FENCE



ELEVATION SHOWING POST SPACING

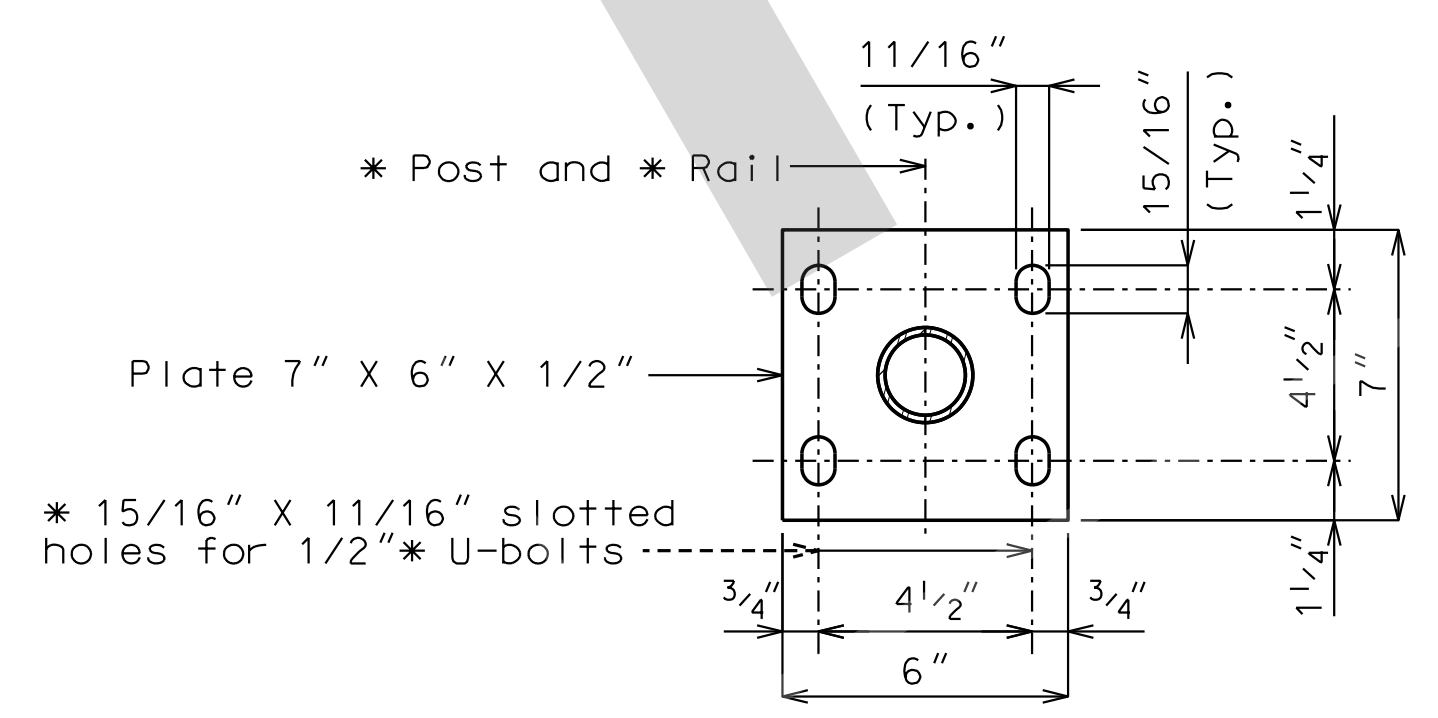


POST CONNECTION (TYPICAL)



ELEVATION AT SPLICE

* At about 30'-0" centers with at least one splice gap between pull or end posts.



PLAN OF FLOOR PLATE

GENERAL NOTES:

Pedestrian guard fence (Chain link type) shall be in accordance with Sec 1043 except all fabric shall have the top and bottom edges knuckled.

All posts shall be vertical. Grout of 1/2" minimum thickness shall be placed under floor plates to provide for vertical alignment of posts.

Payment for furnishing, galvanizing and erecting the fence and frame complete with anchor bolts and washers will be considered completely covered by the contract unit price for Pedestrian Fence (Structures) per linear foot.

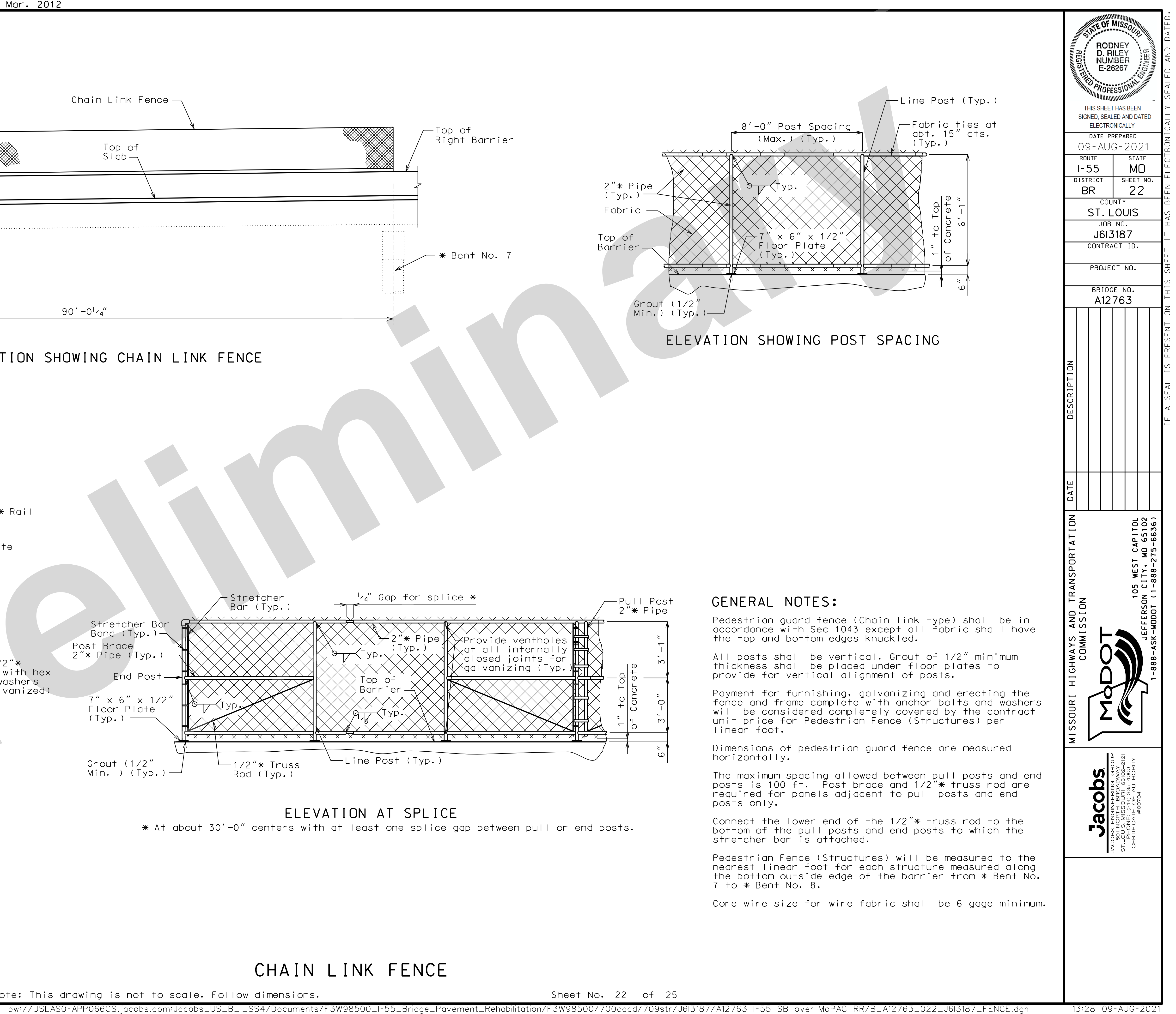
Dimensions of pedestrian guard fence are measured horizontally.

The maximum spacing allowed between pull posts and end posts is 100 ft. Post brace and 1/2" truss rod are required for panels adjacent to pull posts and end posts only.

Connect the lower end of the 1/2" truss rod to the bottom of the pull posts and end posts to which the stretcher bar is attached.

Pedestrian Fence (Structures) will be measured to the nearest linear foot for each structure measured along the bottom outside edge of the barrier from Bent No. 7 to Bent No. 8.

Core wire size for wire fabric shall be 6 gage minimum.





THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

DATE PREPARED 09-AUG-2021

ROUTE I-55 STATE MO

DISTRICT BR SHEET NO. 23

COUNTY ST. LOUIS

JOB NO. J613187

CONTRACT ID.

PROJECT NO.

BRIDGE NO. A12763

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

MoDOT

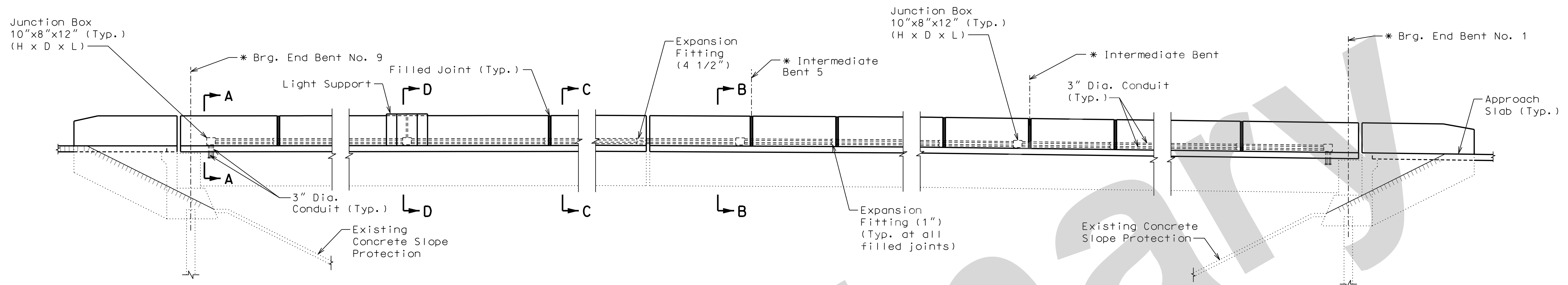
JACOBS

JACOBS ENGINEERING GROUP

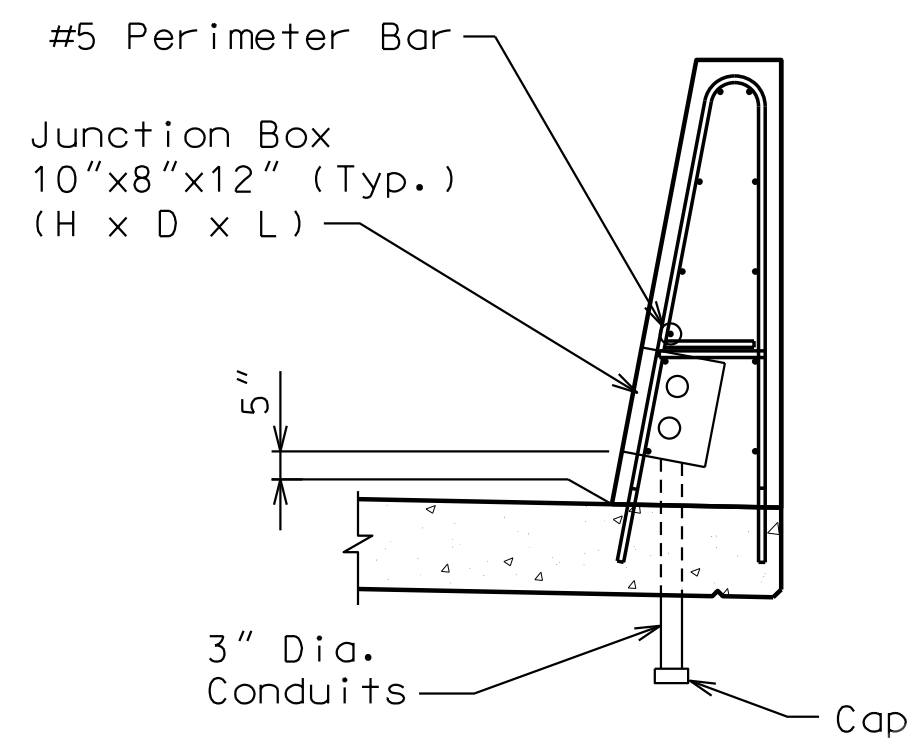
901 NORTH BROADWAY

ST. LOUIS, MISSOURI 63102-2121

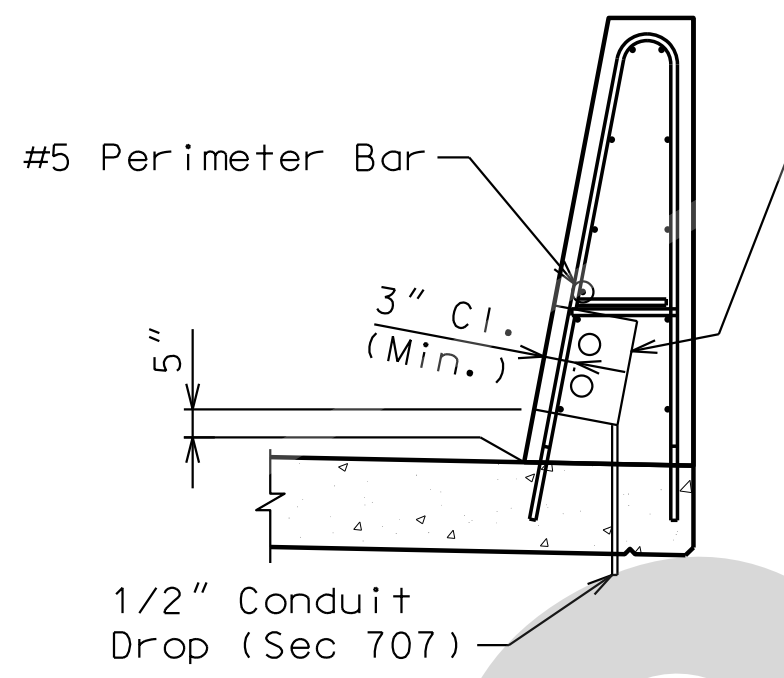
CERTIFICATE OF AUTHORITY #00704



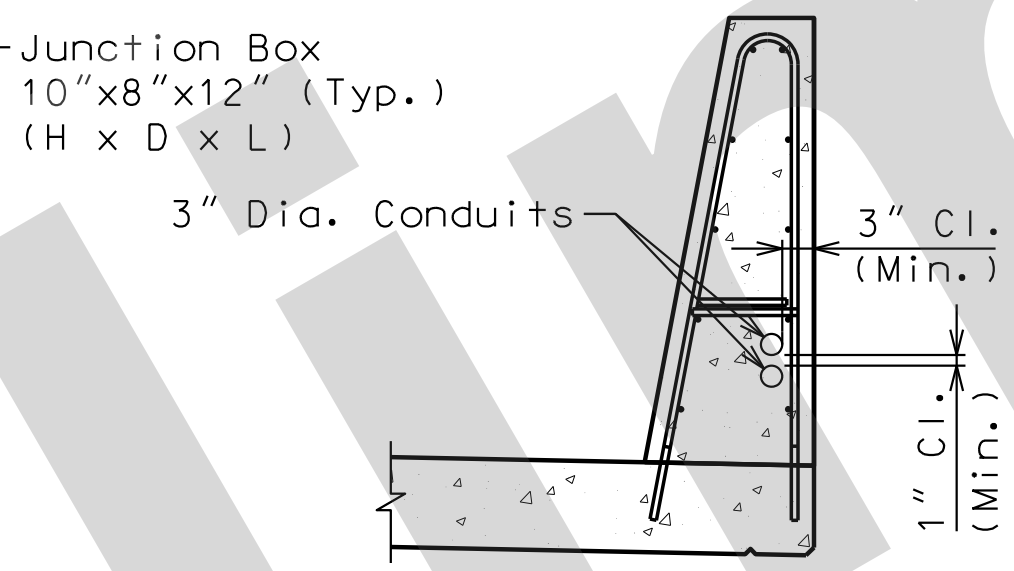
PART ELEVATION OF RIGHT BARRIER CURB SHOWING LOCATION OF CONDUIT



SECTION A-A

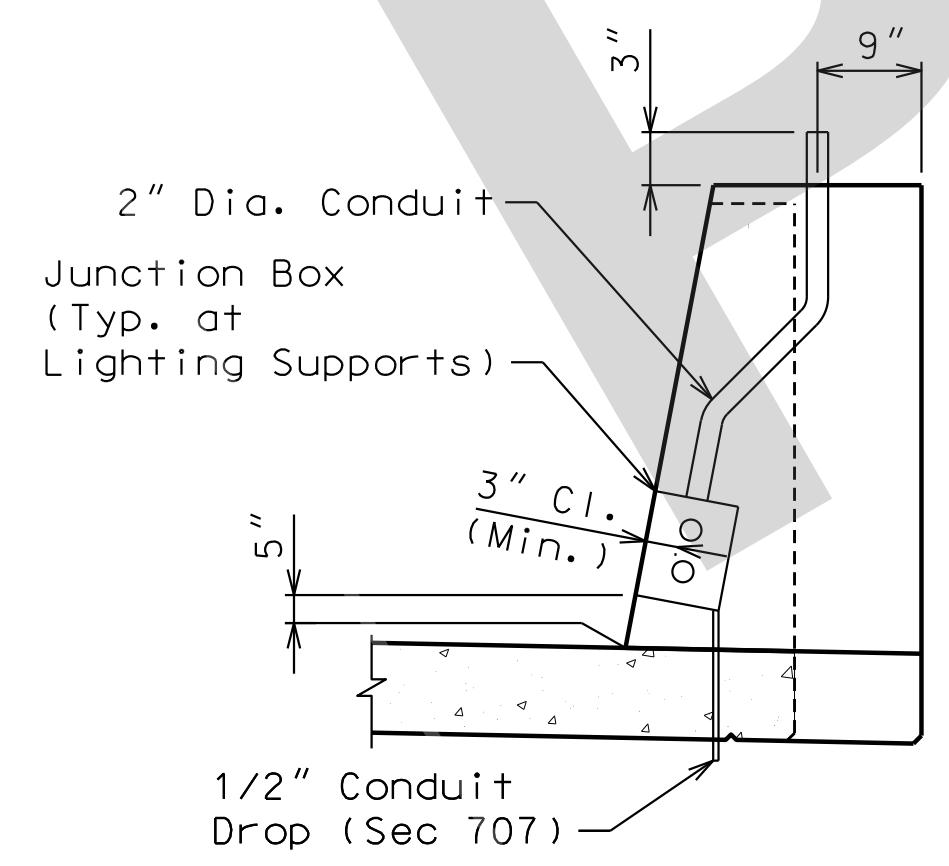


SECTION B-B

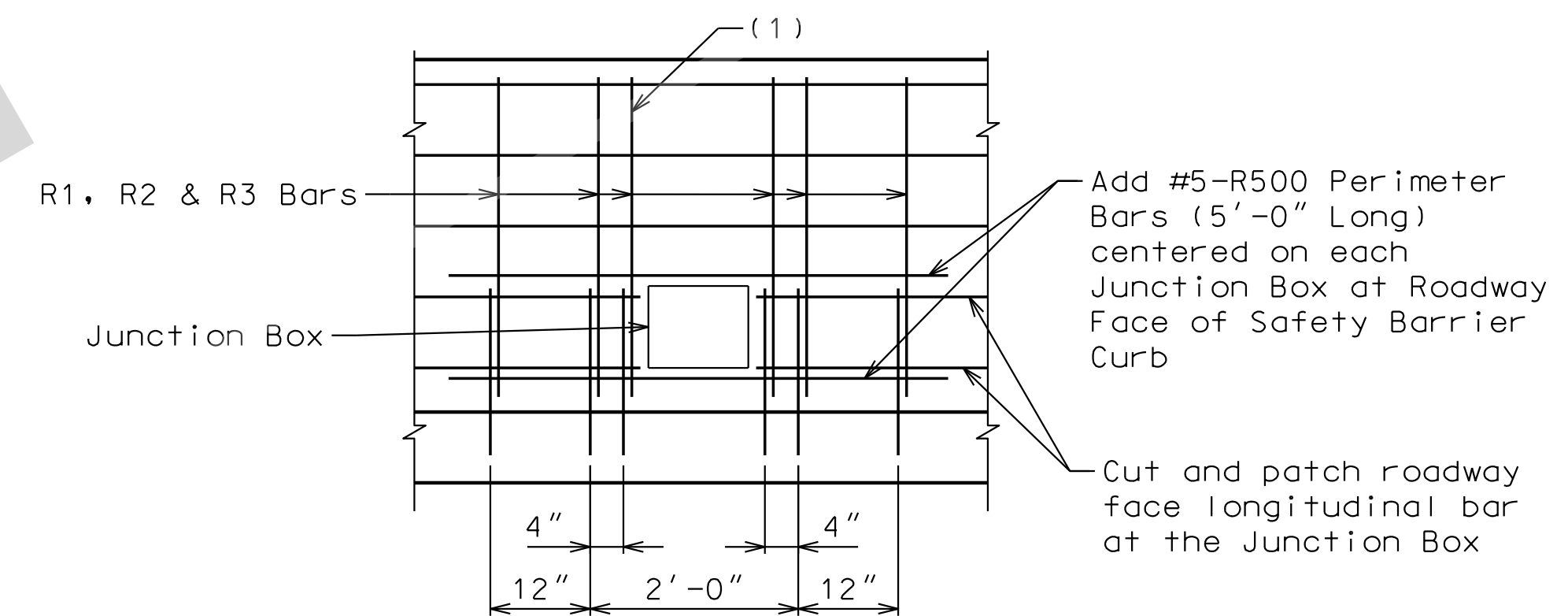


SECTION C-C

(1) At each Junction Box, add 1 set of #5-R1, #5-R2 and #5-R3 bars in the Roadway Barriers



SECTION D-D



PART ELEVATION OF SAFETY BARRIER CURB SHOWING PERIMETER STEEL AT JUNCTION BOXES

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall polyvinyl chloride (PVC), in accordance with Sec 1060, with 3" minimum cover in concrete. Each section of conduit shall bear the Underwriters Laboratories (UL) label.

All conduit fittings for PVC conduits shall be in accordance with Sec 1060. All conduit clamps, if required, shall be commercially-available, nonmetallic conduit clamps and approved by the Engineer.

Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall be placed as shown and set in accordance with the manufacturer's requirements and based on the air temperature at the time of setting given an estimated total expansion movement as shown using a maximum temperature range of 150 degrees F and a maximum temperature of 120 degrees F.

Minimum clearance preferred between conduits placed in the safety barrier curb shall be 1".

All end bent and safety barrier curb junction boxes shall be PVC molded in accordance with Sec 1062 and designed for flush mounting. The conduit terminations shall be permanent or separable. The terminations and covers shall be watertight construction and shall meet requirements for NEMA 4 enclosures.

Placement of junction boxes and covers, complete in place, shall be flush with the roadway face of the safety barrier curb. Junction boxes and covers may be recessed up to 1/4".

Drainage shall be provided at low points or other critical locations of all conduits and all junction boxes in accordance with Sec 707. All conduits shall be sloped to drain where possible.

Junction box size shown on plan may require special order. No other size may be substituted.

MoDOT Construction Personnel: Indicate in field and on bridge plans for future work the exact location of buried conduit at ends of bridge that are capped and not immediately used.

Maximum junction box spacing is 250 ft. Junction Boxes shall not be placed within 5 ft. of an open, closed or filled joint in the Safety Barrier Curb.

Deflection couplings at the end of the wings shall be required for probable thermal movements of the structure and ground movements.

DETAILS OF CONDUIT SYSTEM

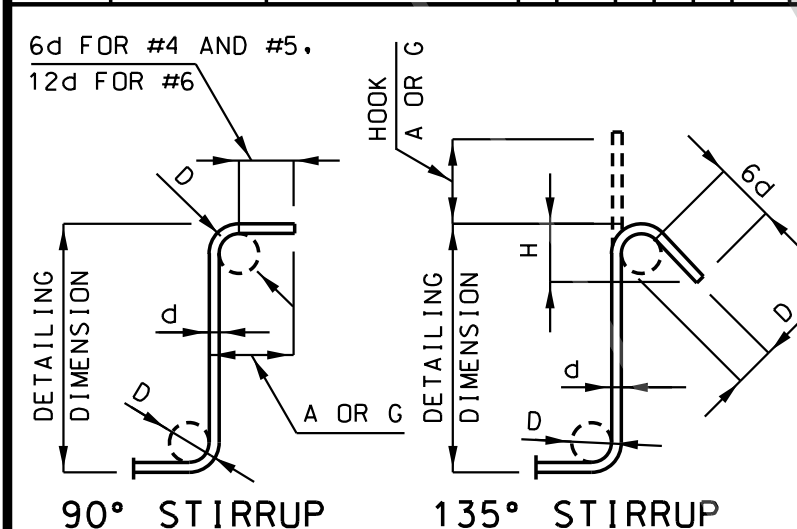
Detailed June 2021
Checked June 2021

Note: This drawing is not to scale. Follow dimensions.

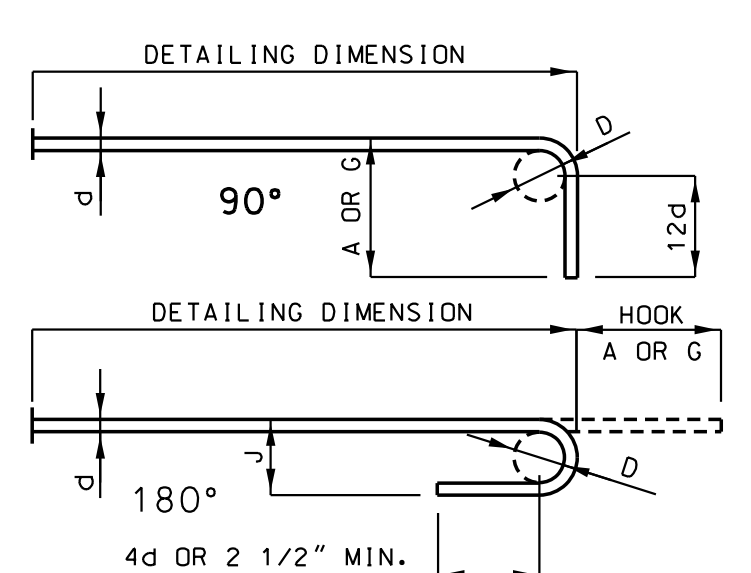
Sheet No. 23 of 25

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT						
								B		C		D		E					F		H		K	
								FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.
		SLAB																						
354	5 S201	SLAB	E	20				52	11	0.00					52	11	19538							
114	6 S202	SLAB	E	20				38	0	0.00				38	0	6507								
570	6 S203	SLAB	E	20				52	0	0.00				52	0	44519								
114	6 S204	SLAB	E	20				40	0	0.00				40	0	6849								
81	6 S205	SLAB	E	20			V	4	10	0.00				4	10	3001								
		INCR. =						44	6	0.00				44	6	44	6							
		6. in																						
907	6 S206	SLAB	E	20				46	3	0.00				46	3	63007								
87	6 S207	SLAB	E	20			V	45	8	0.00				45	8	3114								
		INCR. =						2	0	0.00				2	0	2	0							
		6.125 in																						
56	6 S208	SLAB	E	20			V	2	0	0.00				2	0	1349								
		INCR. =						30	1	0.00				30	1	30	1							
		6.125 in																						
1003	6 S209	SLAB	E	20				30	4	0.00				30	4	45697								
80	6 S210	SLAB	E	20				5	0	0.00				5	0	601								
3	6 S211	SLAB	E	20			V	4	1	0.00				4	1	14								
		INCR. =						2	1	0.00				2	1	2	1							
		12. in																						
3	6 S212	SLAB	E	20			V	2	1	0.00				2	1	14								
		INCR. =						4	2	0.00				4	2	4	2							
		12.5 in																						
47	5 S213	SLAB	E	20			V	29	5	0.00				29	5	829								
		INCR. =						4	5	0.00				4	5	4	5							
		6.5 in																						
	S214	NOT USED																						
	S215	NOT USED																						
413	5 S216	SLAB	E	20				53	1	0.00				53	1	22866								
82	6 S217	SLAB	E	20			V	4	8	0.00				4	8	3018								
		INCR. =						44	4	0.00				44	4	44	4							
		5.875 in																						
86	6 S218	SLAB	E	20			V	45	8	0.00				45	8	3079								
		INCR. =						2	0	0.00				2	0	2	0							
		6.125 in																						
57	6 S219	SLAB	E	20			V	2	0	0.00				2	0	1373								
		INCR. =						30	1	0.00				30	1	30	1							
		6. in																						
49	6 S220	SLAB	E	20			V	29	10	0.00				29	10	1260								
		INCR. =						4	5	0.00				4	5	4	5							
		6.375 in																						
3	6 S221	SLAB	E	20			V	2	4	0.00				2	4	15								
		INCR. =						4	4	0.00				4	4	4	4							
		12. in																						
606	6 S222	SLAB	E	20				52	11	0.00				52	11	48165								
357	6 S223	SLAB	E	20				46	3	0.00				46	3	24800								
77	6 S224	SLAB	E	20			V	45	6	0.00				45	6	2747								
		INCR. =						2	0	0.00				2	0	2	0							
		6.875 in																						
70	6 S225	SLAB	E	20			V	4	9	0.00				4	9	2580								
		INCR. =						44	4	0.00				44	4	44	4							
		6.875 in																						
400	6 S226	SLAB	E	20				30	4	0.00				30	4	18224								
49	6 S227	SLAB	E	20			V	2	0	0.00				2	0	1181								
		INCR. =						30	1	0.00				30	1	30	1							
		7. in																						



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK	135° HOOK	APPROX. H
		HOOK A OR G	HOOK A OR G	
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	12"	8"	4 1/2"



END HOOK DIMENSIONS				
ALL GRADES				
BAR SIZE	D (IN.)	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	2'-0"
#14	18 1/4"	2'-3"	21 3/4"	2'-7"

NOTE:
 ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEGREE ARE TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEGREE STANDARD HOOKS.
 HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
 E = EPOXY COATED REINFORCEMENT.
 S = STIRRUP.
 X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
 V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
 NO. EA. = NUMBER OF BARS OF EACH LENGTH.
 NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
 ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
 PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
 FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
 REINFORCING STEEL (GRADE 60) FY = 60,000 PSI.

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT						
								B		C		D		E					F		H		K	
								FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.
		SLAB (CONT.)																						
41	6 S228	SLAB	E	20			V	28	4	0.00				28	4	28	4	1008						
		INCR. =						4	5	0.00				4	5	4	5							
		7.125 in																						
707	5 S229	SLAB	E	20				53	1	0.00				53	1	53	1	39144						
435	6 S230	SLAB	E	20				46	2	0.00				46	2	46	2	30164						
76	6 S231	SLAB	E	20			V	45	4	0.00				45	4	45	4	2702						
		INCR. =						2	0	0.00				2	0	2	0							
		6.875 in																						
72	6 S232	SLAB	E	20			V	4	8	0.00				4	8	4	8	2645						
		INCR. =						44	3	0.00				44	3	44	3							
		6.75 in																						
479	6 S233	SLAB	E	20				30	4	0.00				30	4	30	4	21824						
49	6 S234	SLAB	E	20			V	1	2	0.00				2	0	2	0	1175						
		INCR. =						29	11	0.00				29	11	29	11							
		7. in																						
43	6 S235	SLAB	E	20			V	1	29	10.00				29	10	29	10	1109						
		INCR. =						4	6	0.00				4	6	4	6							
		7.25 in																						
3	6 S236	SLAB	E	20			V	1	4	1.00				4	1	4	1	14						
		INCR. =						2	2	0.00				2	2	2	2							
		11.5 in																						
6000	4 S237	SLAB	E	10	S			0	6	0.00	0	5	0.00	0	7	0.00	0	6	0.00	2	5	2	1	8350
18	6 S238	SLAB	E	20				4	10	0.00				4	10	4	10	131						
180	5 S239	SLAB	E	27	S			0	10	0.00	1	5	0.00	0	8	750	0	5	750	0	4			

