MEMORANDUM

Missouri Department of Transportation

Right of Way
Southwest District

TO: Steve Campbell
Southwest District Engineer

CC: Central Office Right of Way

FROM: Steve Shelton
Southwest District Right of Way Manager

DATE: March 26, 2021

SUBJECT: Request for ADA Responsibility Determination
Project: Golden City, MO ADA
County: Barton
Routes: Route 126/37

Per the guidance provided in the EPG, section 236.4.4, included with this memo please find documentation pertaining to the above mentioned county, route, and project. The district right of way staff has conducted a thorough ownership and ADA responsibility determination, including deeds, dedicated plats, maintenance/urban/municipal agreements, or other documentation defining the responsibility for the ADA improvements the location identified on the attached map.

All the MHTC ownership deeds and plan sheets were researched. Several platted subdivisions in the City of Golden City were included in our research. Deeds were found along Route 126 that show ownership in the Missouri Highways and Transportation Commissions (see Route 126 (Old Route D below). The urban and maintenance agreement records were researched, and there is a maintenance agreement found that covers the routes within Golden City in 1957. Although the Missouri Highway Commission took Route D (now known as Route 126) into the State System in 1939 and supersedes the Maintenance Agreement of 1957.

Route 126 (Old Route D) –

Route 126 from the current west city limits to Walnut Street - is vested in **MHTC** ownership of Route 126 from Station 571+00 to Station 585+03. This portion was purchased in project Sec 1 - 1 for Route D (now Route 126) in 1930's. MHTC would have full driving thruway and ADA compliance responsibilities in this section. There appears to be no sidewalk facilities located along this area.

Route 126/37 -

Route 126/37 from the Walnut Street east to the Route 160 intersection – Ownership for Route 126/37 from Station 585+03 to Station 934+62 is vested in **City of Golden City** by plat. Road was dedicated in plats Original Plat of Golden City, Hicks Addition, Wyatts Addition, Cleland and Wyatts Addition and Union Addition in the 1870's and 1880's. RW width is 50 to 60 feet. The Missouri Highway Commission took the driving thruway into the State System in December 1939 by Commission Action. There was a Maintenance Agreement established in 1957 along this corridor, but it was determined that the 1939 action would take presidence. The City of Golden City will have full ADA compliance responsibility for this section of sidewalk along this corridor. MoDOT is responsible for the maintenance of the road surface including curb cuts and barriers but excludes maintenance of sidewalks. There appears to be sections of sidewalk facilities located along Route 126/37 in this area.

The district right of way staff is requesting concurrence to the recommended actions for the subject project for ADA improvements based on the research.

____________________________________ Date: 3/29/21
District ROW Manager

Digitally signed by Steve Campbell
Date: 2021.03.29 08:52:06 -05'00'
____________________________________ Date: 3/29/2021
District Engineer

Recommendation by District Engineer: (drafters note: provide details of the district engineers determination and recommendation based on the support documents. Submit fully executed memo and support documents to central office right of way if subject section should be removed from the transition plan).


T31NR29WS27
T31NR29WS26
MHTC owns Route 126 from Sta 571+00 to 585+03 (Route 37 intersection). RW is 50 to 80 foot wide in this section.
160
Golden City
Golden City
37
City of Golden City owns Route 126/37 from Station 585+03 to Station 634+62. RW width platted from 50 to 60 wide in this section.
West City Limits
East City Limits
T31NR29WS34
© 2021 Google
T31NR29WS35
ADA Ownership Map
Golden City

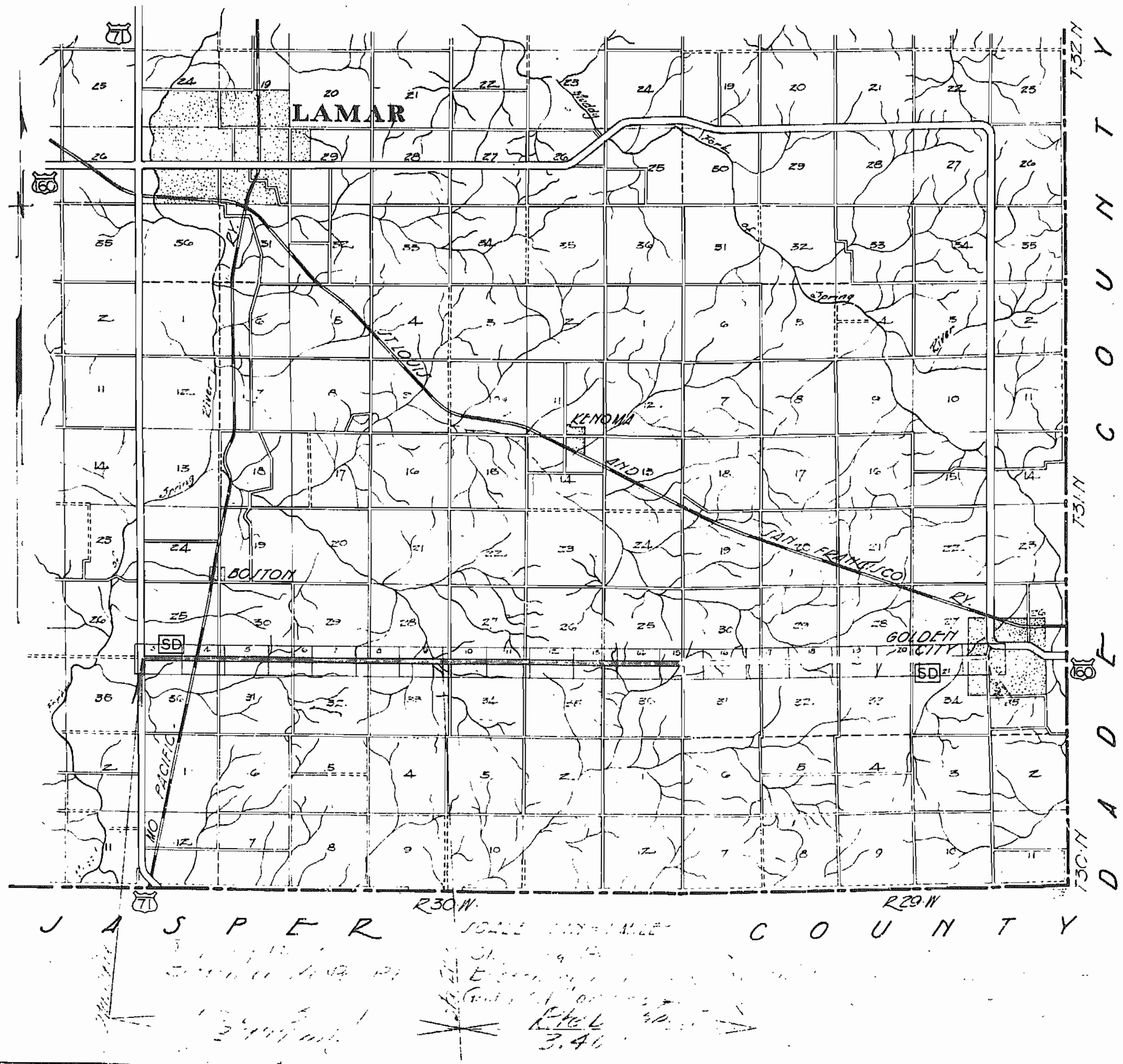
7 BARTON

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

BARTON COUNTY

SCALES. PLAN 1 IN. 100 FT.
PROFILE. HOR. 1 IN. 100 FT. VERT. 1 IN. 10 FT.
CROSS-SECTIONS 1 IN. 5 FT.



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GRADE LINE

SUBMITTED [redacted]

[redacted]

CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL

[redacted]

DISTRICT ENGINEER - DISTRICT NO. 5

RECOMMENDED FOR APPROVAL

[redacted]

CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED

[redacted]

DIRECTOR BUREAU OF PUBLIC ROADS

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

Name of Road ROUTE 71 TO GOLDEN CITY

Type of Improvement 24 FT. GRADED EARTH

County of BARTON

Length 3.801 Miles

FED. ROAD DIST. No.	STATE	FED. AID PROJECT
5	MO.	
DIV. No.	COUNTY	
7	BARTON	

EXCAVATION

STATION	EXC.	BOR	MACH.GRAD.	PICKUP	O.H.
390+00					
393+00			3.00		
396+00	85	166			
406+00			10.00		
410+00	251	415			
413+45	259	12+			
418+00	360	87			
437+00			19.00		
440+00	187	57			
457+70			17.70	6	
464+00	199	918			
481+00			17.00		
485+90	225	254			
493+90	367	290			
518+00			25.00	4	
522+00	208	163			
568+00			46.00	20	
576+77	430	1400		6	176
590+70.6			13.94	16	
SUB-TOTALS	2571	3874	151.64	52	176
F.E.&S.R.EXC.	380				
F.E.&S.R.BOR.	162				
T.D. EXC.	89				
CH.CH. EXC.	711				
Rdwy. BOR.	3874				
TOTALS	7787		151.64	52	176

CLEARING

SHEET NO.	UNITS
3	14
4	72
5	75
6	28
7	19
8	50
9	12
TOTAL UNITS	270
TOTAL ACRES	3.1

GRUBBING

SHEET NO.	UNITS
3	5
4	57
5	50
6	10
7	12
8	27
9	12
TOTAL UNITS	173
TOTAL ACRES	2.0

HEDGE PULLING

SHEET NO.	100 FT.
3	32.52
4	45.40
5	3.97
6	13.20
7	6.53
8	10.80
9	.90
TOTAL	113.32

REINFORCED CONCRETE BOX CULVERTS

STATION	STANDARD	SIZE	LENGTH	CONCRETE	REINF.	EXCAV.	REMARKS	
416+82	C-244	4x2½	27	10.11	1437	30	9" Hdwls.	
437+96	C-243	3x2	27	7.73	11.73	28	9" Hdwls.	
449+34	C-243	3x2	27	7.73	11.73	21	9" Hdwls.	
459+52	C-424	10x4	28	30.89	3041	65	9" Hdwls.	15° Sk
483+00	C-244	4x2½	27	10.11	1437	23	9" Hdwls.	
490+16	C-244	4x2½	27	10.11	1437	27	9" Hdwls.	
514+60	C-424	8x3	27	20.76	1954	54	9" Hdwls.	
TOTALS				97.44	11652	248		

PIPE CULVERTS

STATION	SIDE	15"	18"	24"	30"	RELAID	EXC.	BOR.	CULV. EXC.	REMARKS
394+25	℄			34					10	℄ CULV.
404+80	Rt	18					10	4	1	F.E.
408+00	℄			34					8	℄ CULV.
413+08	℄			36					12	℄ CULV.
421+00	Lt	18					10		1	F.E.
426+00	Lt		30				26		8	S.R.
426+00	Rt			32			45		17	S.R.
433+40	Lt	18					1		1	F.E.
439+20	Rt	18					-			F.E.
443+70	Lt	18					11		1	F.E.
472+87	Rt	18					6	1	1	F.E.
473+00	Lt	18					7		1	F.E.
478+93	℄		34						11	℄ CULV.
479+47	℄		34						11	℄ CULV.
492+05	Rt			22			3		2	F.E.
505+50	Lt	18					7		1	F.E.
518+50	Lt		20				5		2	F.E.
529+70	Rt			22			5	14	2	F.E.
532+05	Lt		30				5	17	9	S.R.
543+10	Rt	18					2	5	1	F.E.
545+25	Lt	18					5	2	1	F.E.
558+32	Lt		20					11	2	F.E.
563+00	Rt		20				10	3	1	F.E.
566+09	Lt				22		19		3	F.E.
575+18	Rt	18							1	F.E.
575+79	Lt	18				12			1	F.E.
577+70	Lt					30		4		F.E.
579+50	Lt					15		2		F.E.
588+40	Lt					10		2		F.E.
TOTALS		216	188	180	22	67	127	65	109	

CULVERT REMOVALS

STATION	SIDE	STRUCTURE		CULV. EXC.
395+26	℄	3'x1'x18.5'	Conc. Box	6
404+80	Rt	8"x21'	V.C.P.	1
417+20	℄	3x2x18'	Conc. Box	9
426+92	Lt	12"x18'	C.I.P.	2
425+90	Rt	2x1.5x23'	Conc. Box	8
425+90	Lt	12"x25'	C.I.P.	3
433+34	Lt	12x16	C.I.P.	2
437+89	℄	2'x2'x19'	Conc. Box	7
479+42	℄	2'x1.5x27'	Conc. Box	6
484+7[illegible]	℄	2x1.5x18'	Conc. Box	6
487+33	℄	2x1.5x19'	Conc. Box	7
529+7[illegible]	[illegible]	[illegible]x2x5.5	Conc. Box	6
532+[illegible]	[illegible]	[illegible]x24	Conc. Box	4
5[illegible]	[illegible]	[illegible]x2x16	Conc. Box	.9
5[illegible]	[illegible]	[illegible]x2x26	Conc. Box	15
[illegible]		[illegible]	V.C.P.	1
TOTAL				92

LENGTH OF PROJECT

End of Project	Station	590+70.6	
Beginning of Project	Station	390+00	
Apparent Length		20070.6	Feet
Equations and Exceptions:			
Total Corrections		NONE	Feet
Net Length of Project		20070.6	Feet
20070.6 Feet : 5280 =		3.801	Miles

CROWN F.E. & S.R. APPRCHS

STATION	SIDE	EXC.	BOR	REMARKS
394+50	Rt	5		F.E.
394+50	Lt	2		F.E.
402+34	Rt	6		F.E.
402+34	Lt	6		F.E.
411+00	Lt	4		F.E.
411+00	Rt	10		F.E.
415+00	Rt	9		F.E.
415+00	Lt	7		F.E.
430+00	Rt	9		F.E.
430+00	Lt	8		F.E.
443+00	Rt	7		F.E.
452+60	Rt	3	1	F.E.
452+60	Lt	3	4	F.E.
4[illegible]+27	Rt	1	6	F.E.
477+00	Lt	7	1	F.E.
479+22	Rt	19	69	S.R.
479+22	Lt	32		S.R.
481+00	Rt	3		F.E.
481+00	Lt	1		F.E.
4[illegible]+00	Lt	0		F.E.
503+90	Rt	4	1	F.E.
503+92	Lt	1	4	F.E.
532+05	Rt	12	2	S.R.
547+00	Lt	9		F.E.
547+00	Rt	4	3	F.E.
583+07	Lt	0	1	F.E.
585+00	Rt	12		S.R.
585+00	Lt	3	5	S.R.
TOTALS		193	97	

TAIL DITCHES

STATION	SIDE	EXC.
394+75	Lt.	52
449+34	Lt.	19
483+00	Rt.	7
487+35	Rt.	11
TOTAL		89

CHANNEL CHANGES

STATION	SIDE	EXC.
[illegible]	Rt.	468
[illegible]	Lt.	243
TOTAL		711

SUMMARY

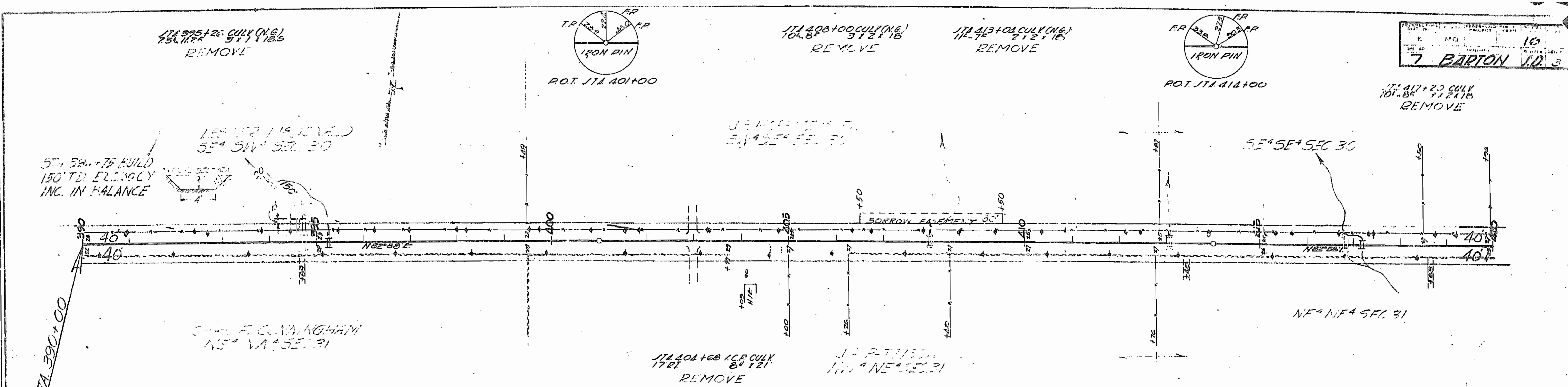
ITEM No.	DESCRIPTION	UNIT	TOTAL UNITS
1-A	CLEARING	Acre	3.1
1-B	GRUBBING	Acre	2.0
1-C	HEDGE PULLING	Sta.	113.32
1	EXCAVATION	Cu. Yd.	7787
1-I	CULVERT EXCAVATION	Cu. Yd.	449
1-N	MACHINE GRADING	Sta.	151.64
16-B	CLASS "B" CONC. MASONRY	Cu. Yd.	97.44
18-D	15" C.M.P. CULVERTS	Lin. Ft.	216
18-D	18" C.M.P. CULVERTS	Lin. Ft.	188
18-D	24" C.M.P. CULVERTS	Lin. Ft.	180
18-D	30" C.M.P. CULVERTS	Lin. Ft.	22
19-A	REINF. FOR CONC. STRUCT.	Lb.	11652
	BRIDGE AT STA. 571+15 DWG S-900		
1-I	CULVERT EXCAVATION	Cu. Yd.	330
16-B	CLASS "B" CONC. MASONRY	Cu. Yd.	87.2
16-M	HEATING CONC. IN GROUP "B"	Cu. Yd.	87.2
19-A	REINF. FOR CONC. STRUCT.	Lb.	8880
	CONTINGENT ITEMS		
	PICKUP ROCK	Cu. Yd.	52
	OVERHAUL	Sta. Yd.	176
	RELAID PIPE CULVERTS	Lin. Ft.	67

Prepared By H. E. BROWN Date

Checked in Pencil By

Date

Printed A. S. Aloe Co. 3M 5-33



STD. PIPE CULVERTS

STATION	18"	24	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
394+75		34			12-R		✓
395+26						3	Removal
404+00						1	Removal
408+00		34			14-R	2	
413+0[illegible]		36			15-R		✓

DRAINAGE STRUCTURES

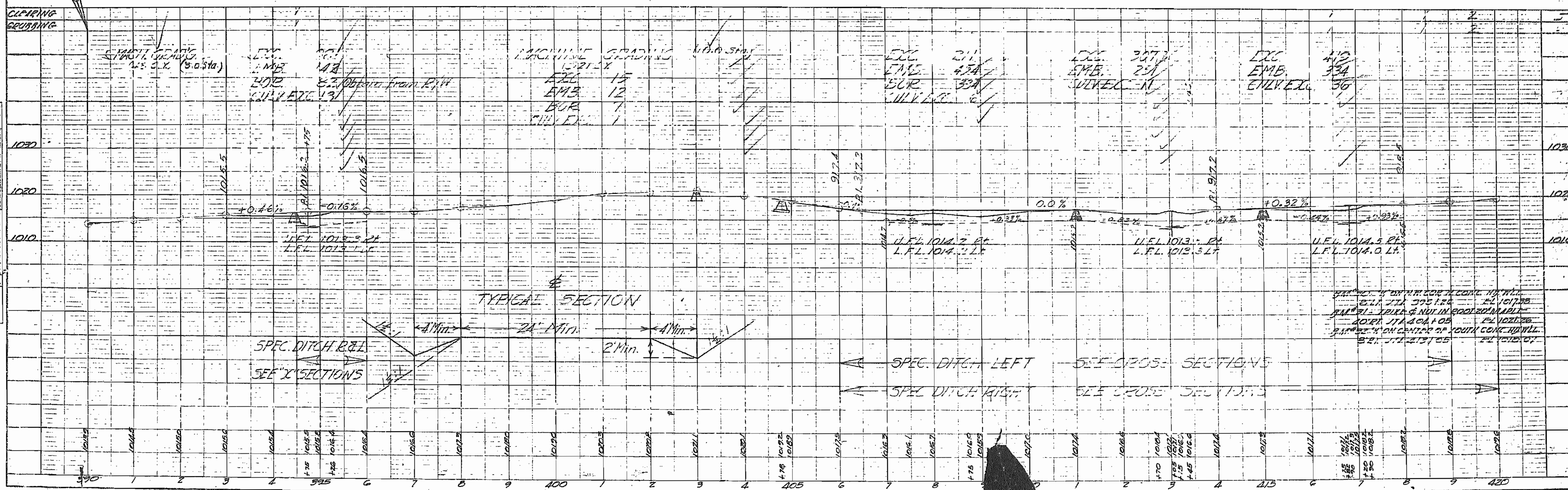
STATION	STAND	SIZE	SKEW	LENGTH	DRAIN. AREA		REMARKS
416+52	C2444	4x2½		27	43-R	3	9" Hdwls.
417+20						4	Removal

F. E. & S. R. APPROACHES

STATION	SIDE		18"	24"	EXC.	EMB.	BOR.	INCL. IN
394+50	R&L	CROWN		NO PIPE	2	2	✓	Bal.
40[illegible]	R&L	CROWN		NO PIPE				
404+[illegible]	Rt.	18				4		
411+00	R&L	CROWN		NO PIPE		15	✓	
415+00	R&L	CROWN		NO PIPE		17	✓	

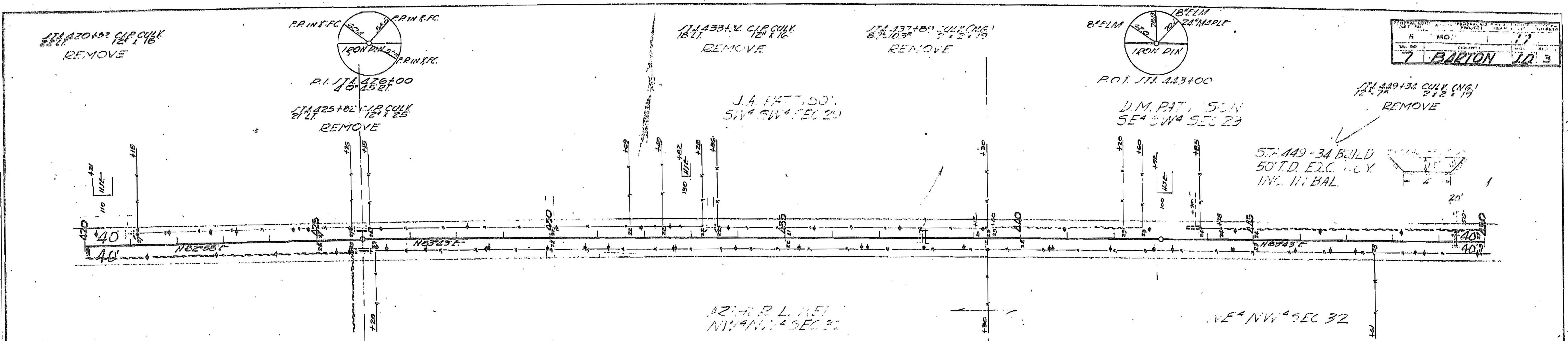
HEDGE PULLING

STATION	STATION	SIDE	100 FT.
390+00	403+17	Rt.	13.77
406+26	420+00	Rt.	13.74
	Total		27.51



FEDERAL ROAD DIST. NO.	STATE	FEDERAL AID PROJECT		SHEET NO.	TOTAL SHEETS
6	MO.			17	

DIV. NO.	COUNTY	ROUTE	SEC.
7	BARTON	I.D.	3



DRAINAGE STRUCTURES

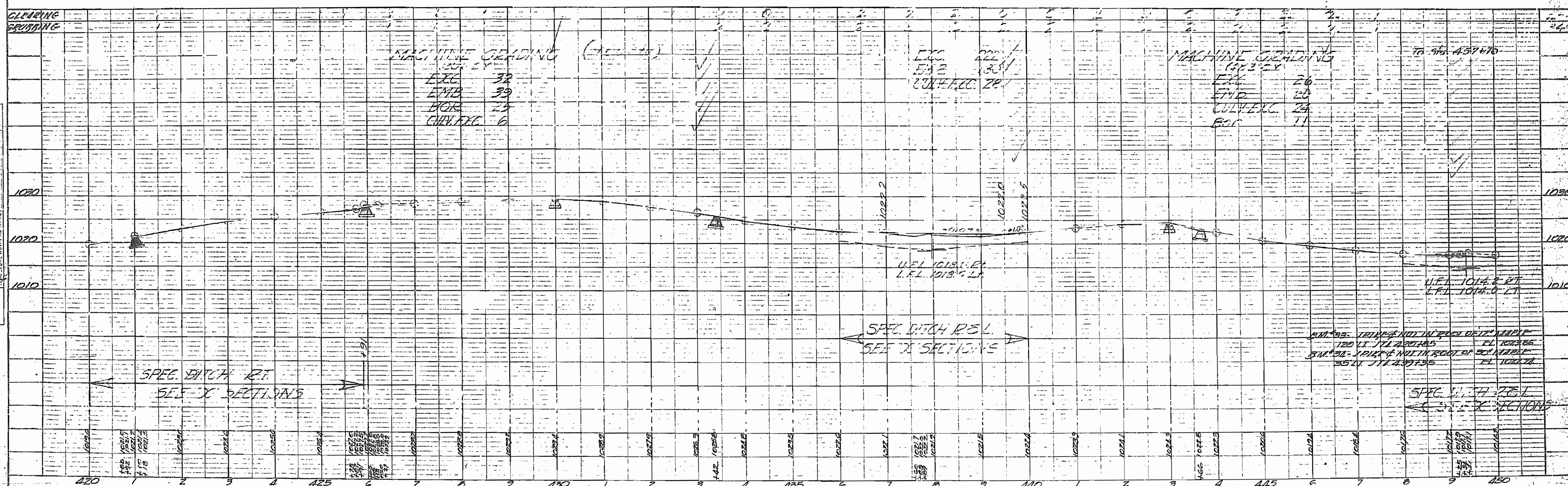
STATION	STD.	SIZE	SKEW	LENGTH			REMARKS
437+89						3	Removal
437+96	C243	3x2		27	24-R	2.5	√ 9" Hdws
449+34	C243	3x2		27	28R	4	√ 9" Hdws

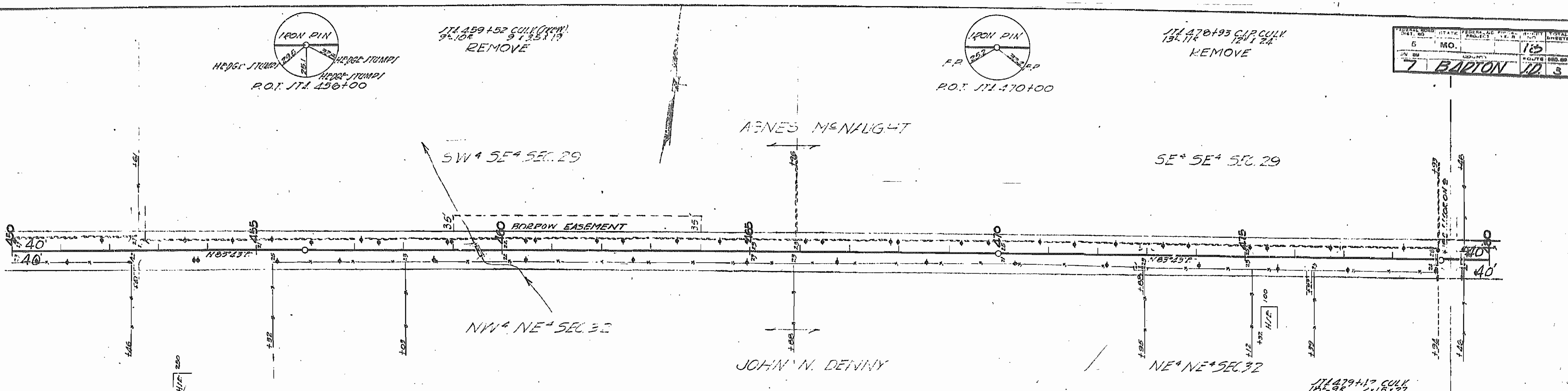
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"			EXC.	EMB.	BOR.	INCL. IN
421+00	Lt.	18	Culv. Exc.		Rem.				4	Bal
42[illegible]	Rt.			32	Culv. Exc. 30 C.Y.					"
42[illegible]	Lt.		30	Culv. Exc. 10 C.Y. Remo						"
430+[illegible]	R&L	CROWN - NO PIPE								"
433+[illegible]	Lt.	18 Culv. Exc. 10 C.Y. Remo					14	4	√	"
443+00	Rt.	CROWN - NO PIPE							√	"
4[illegible]	Lt.	18						4		"

HEDGE PULLING

STATION	STATION	SIDE	100 FT.
420+00	425+76	Rt.	5.76
425+76		Rt.	.05
439+40	442+60	Lt.	3.20
444+28	450+00	Lt.	5.72
	Total		14.73





STD. PIPE CULVERTS

STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV EXCAV	REMARKS
478+93	34				5-R	9	
472+44	34				2-R	9	

DRAINAGE STRUCTURES

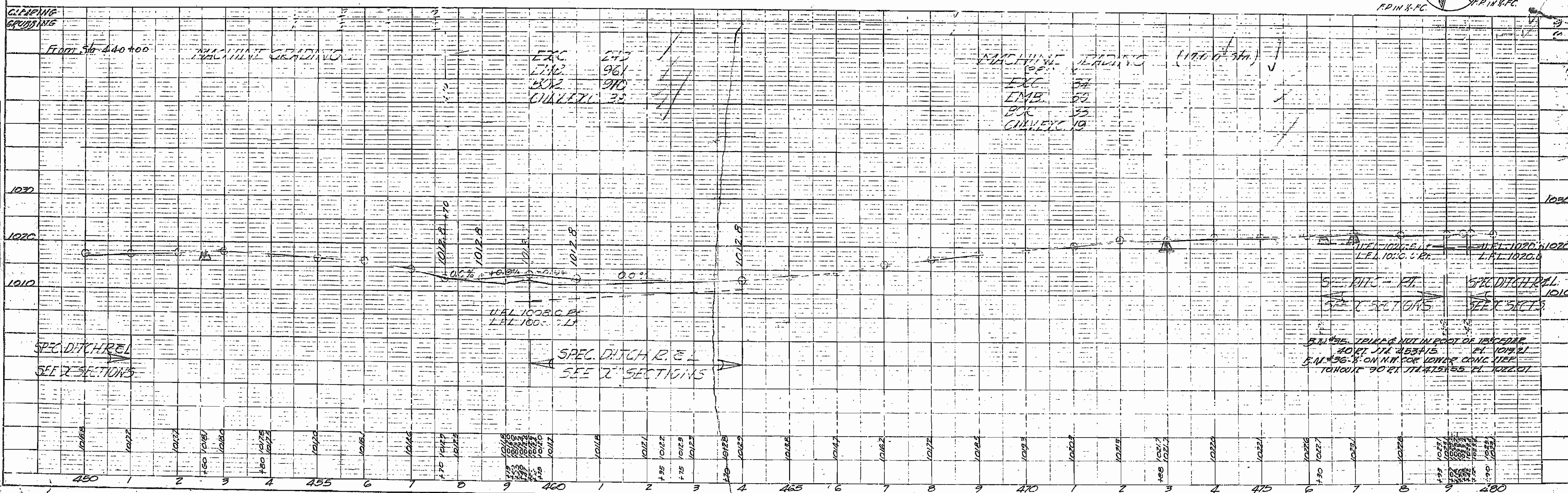
STATION	STAND	SIZE	SKEW	LENGTH			REMARKS
459+52	C-424	10x4	15°R.A.	26	255-R		9" Hdwls. F=1'

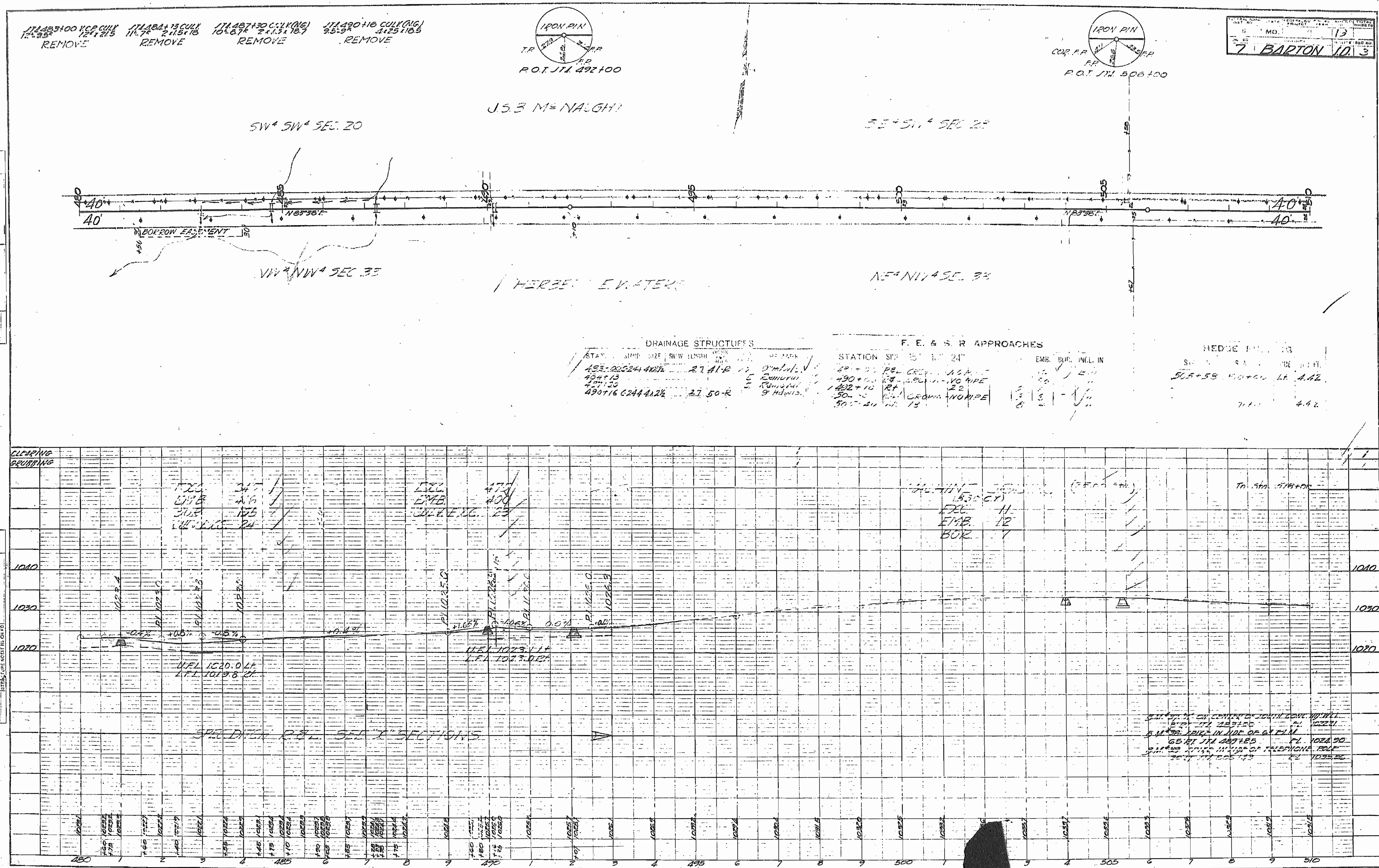
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"	EXC.	EMB.	BOR.	INCL. IN
452+6.	Rt	CROWN - NO PIPE			4	4		Bal.
452+6.	Lt	DOUBLE CROWN - NO PIPE					13	"
472+80	Rt		18					"
473+00	Lt		18		13			"
476+35	Rt	CROWN - NO PIPE			2			"
477+00	Lt	CROWN - NO PIPE			9	5		"
479+	R&L	CROWN - NO PIPE			5		50	"

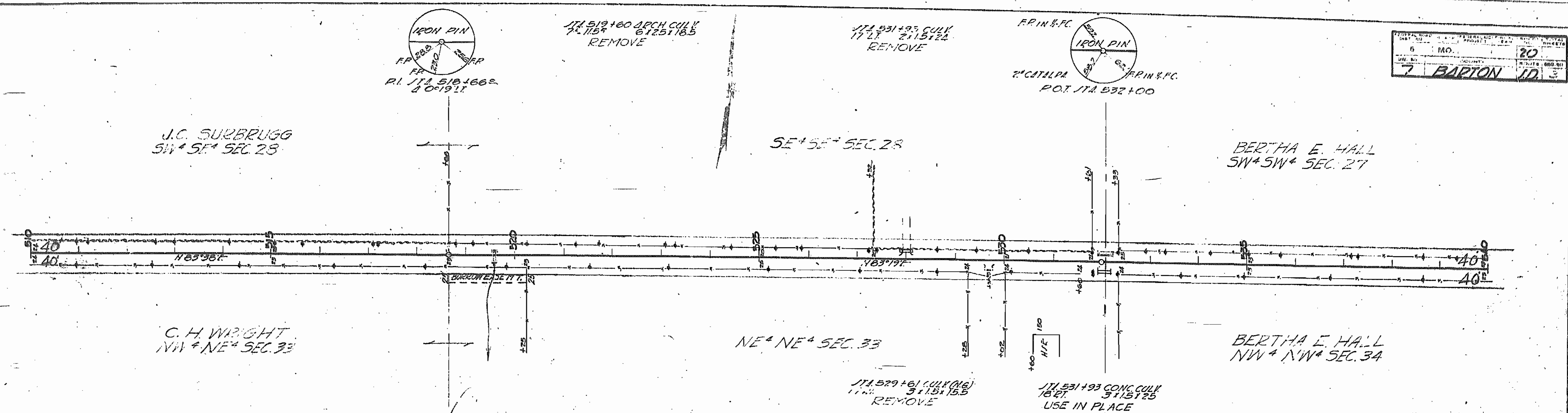
HEDGE PULLING

STATION	STATION	SIDE	100 FT.
450+00	478+93	Lt	28.93
465+96		Lt	.07
478+93		Lt	.04
	Total		29.04





REMOVE
REMOVE
REMOVE
REMOVE
IRON PIN
P.O.T. JTA 492+00
IRON PIN
P.O.T. JTA 506+00
7 BARTON 10 3
J.S.B. McNAUGHT
SW¼ SW¼ SEC. 20
NW¼ NW¼ SEC. 33
HERBERT E.V. ATER
NE¼ NW¼ SEC. 33
BORROW EASEMENT
DRAINAGE STRUCTURES
F. E. & S. R. APPROACHES
HEDGE
CLEARING
GRUBBING
EXC.
EMB.
SPEC. DITCH REL. SEE X SECTIONS
U.F.L. 1020.0 Lt.
L.F.L. 1019.8 Lt.
1040
1030
1020
480
485
490
495
500
505
510



DRAINAGE STRUCTURES

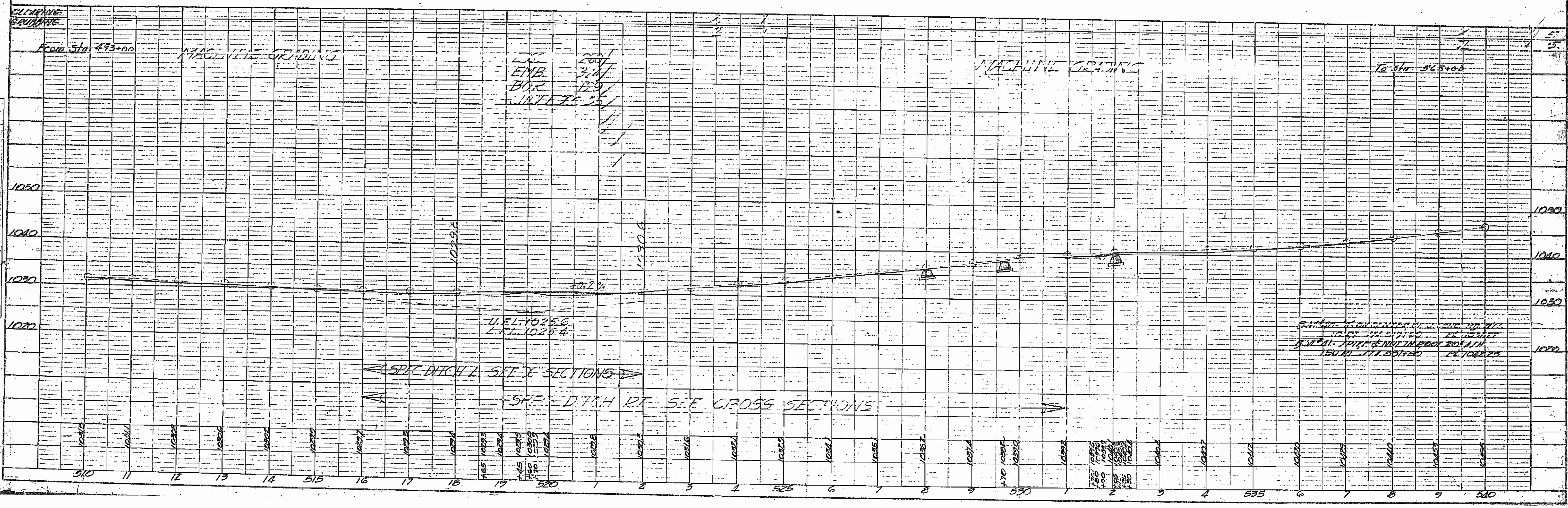
STATION	STAND	SIZE	SKEW	LENGTH		REMARKS
519+60	CA24	8x3		27	IAC-R	9" Hdwls. F=1'
529+70					2	Removal-Rt.
531+93					2	Removal-Lt.

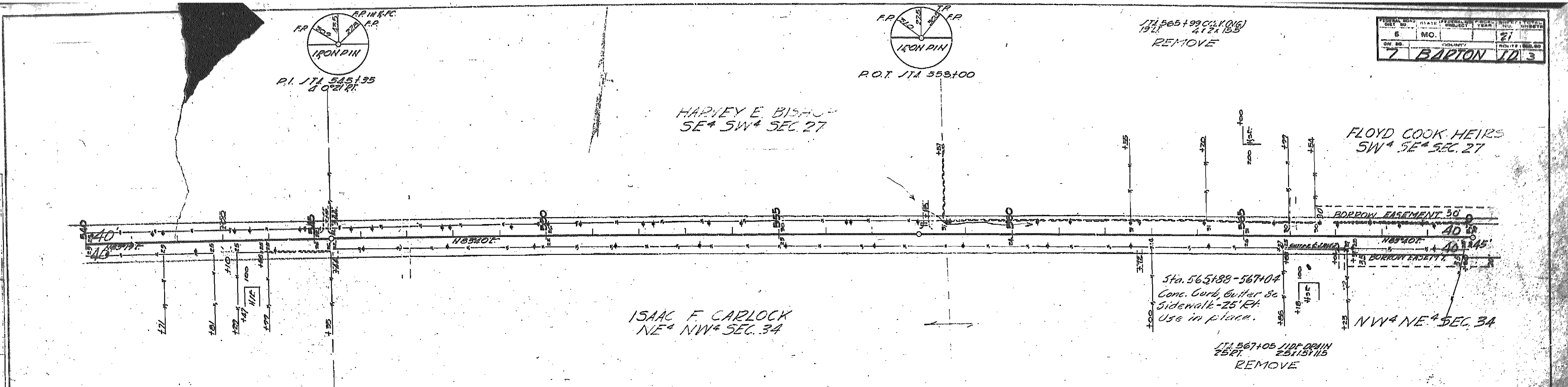
F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"	EXC.	EMB.	BOR.	INCL. IN
518+50	Lt.		20		17	6		Bal.
529+70	Rt.			22	5	3		"
532+00	Lt.		30			5	11	"

HEDGE PULLING

STATION	STATION	SIDE	100 FT.
510+00	518+60	Lt.	8.66
527+32	531+81	Lt.	4.49
527+32		Lt.	.10
	Total		13.25





STD. PIPE CULVERTS

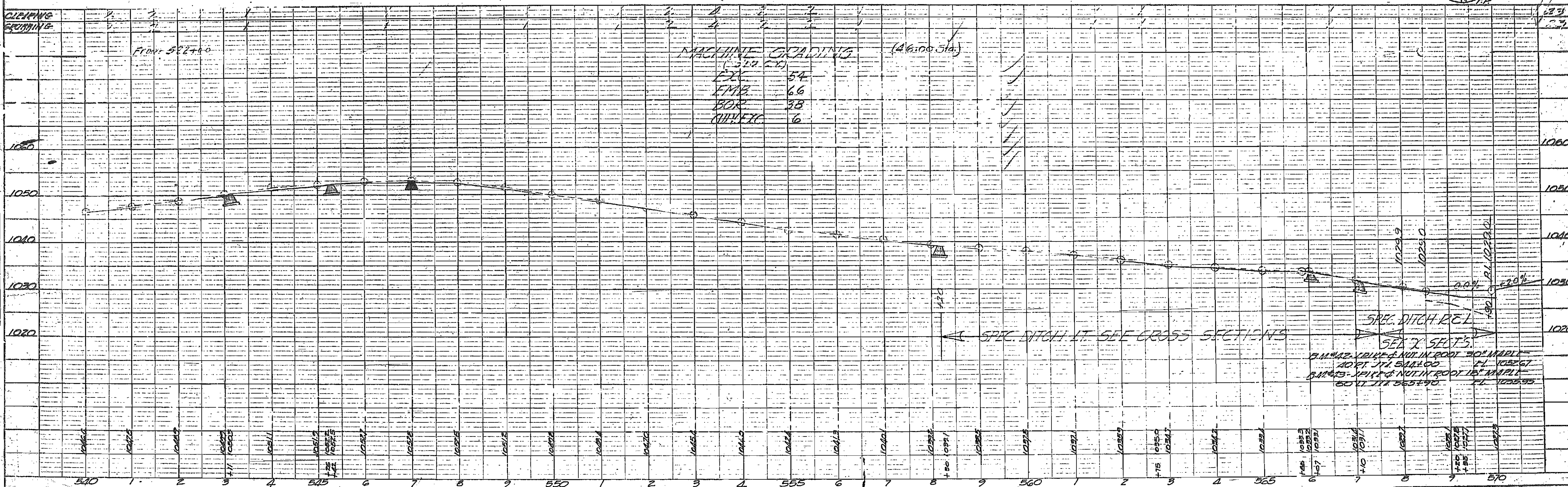
STATION	18"	24"	30"	36"	DRAINAGE AREA	CULV. EXCAV.	REMARKS
566+00						9	Removal

F. E. & S. R. APPROACHES

STATION	SIDE	15"	18"	24"	30"	EXC.	EMB.	BOR.	INCL. IN
543+10	Rt.	18				[illegible]	[illegible]		Exc.
545+26	Lt.	18				[illegible]	[illegible]		"
547+00	R&L	CROWN - NO PIPE				[illegible]	[illegible]	2	"
558+[illegible]	Lt.		20			[illegible]	[illegible]	[illegible]	"
566+0[illegible]	Lt.				22	4	[illegible]	[illegible]	"
567+[illegible]	Rt.		20			[illegible]	10	5	"

HEDGE PULLING

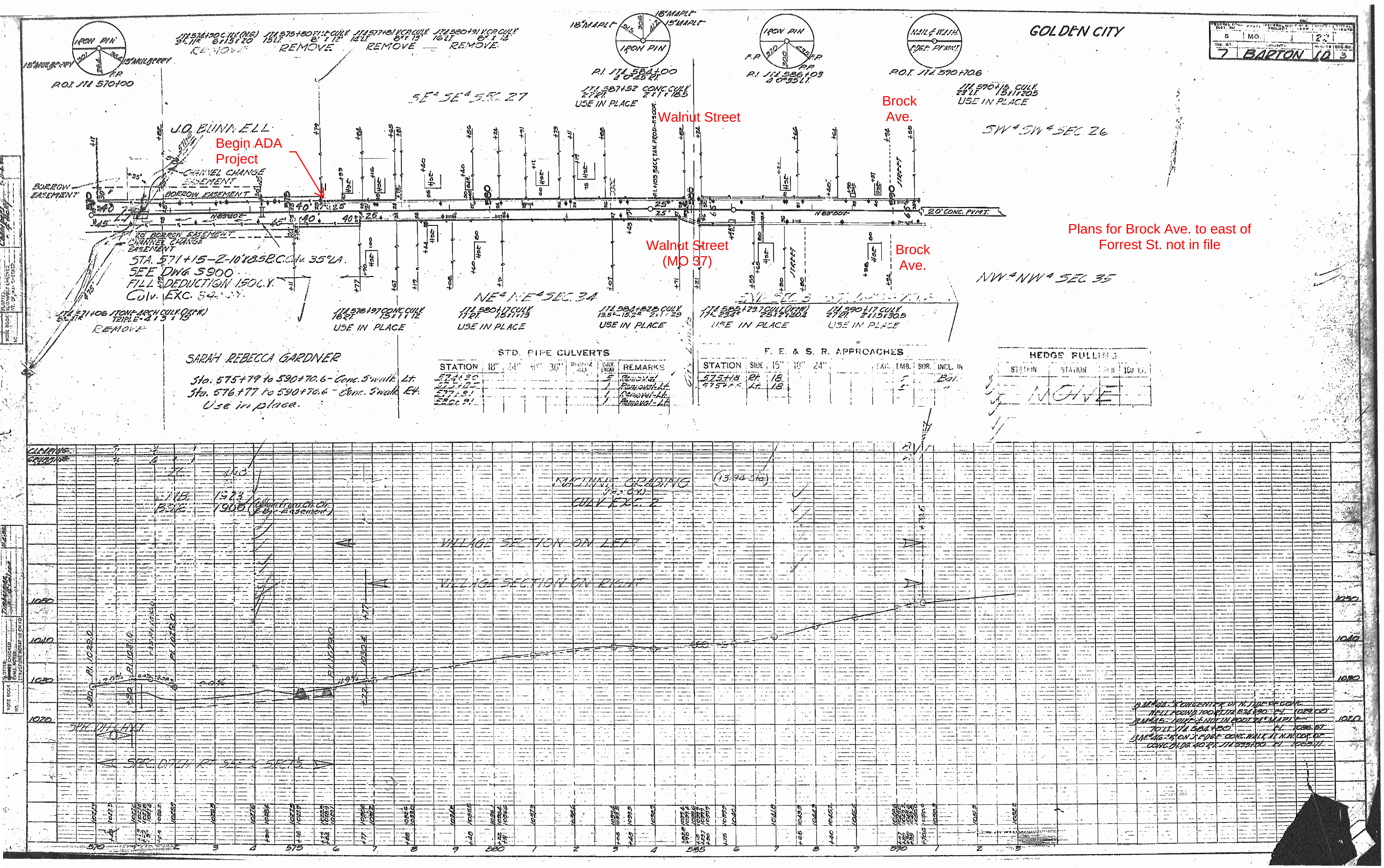
STATION	STATION	SIDE	100 FT.
543+86	545+35	Rt.	1.49
567+[illegible]	570+00	Lt.	3.00
Total			4.49



FEDERAL ROAD DIST. NO.	STATE	SHEET NO.
6	MO.	21
CO. NO. 7	COUNTY BARTON	10 — 3

PLAN

PROFILE


GOLDEN CITY
7 BARTON
IRON PIN
P.O.T. STA 570+00
J.O. BUNNELL
Begin ADA Project
CHANNEL CHANGE EASEMENT
BORROW EASEMENT
REMOVE
SE¼ SE¼ SEC. 27
P.I. STA. 584+00
P.I. STA. 586+03
NAIL & WASH.
P.O.T. STA 590+70.6
Walnut Street
Brock Ave.
USE IN PLACE
SW¼ SW¼ SEC. 26
20' CONC. PVMT.
Walnut Street (MO 37)
Brock Ave.
Plans for Brock Ave. to east of Forrest St. not in file
STA. 571+15–2–10'X8.5 R.C.Culv. 35°LA.
SEE DWG. 5900
FILL DEDUCTION 150 C.Y.
Culv. EXC. 54 C.Y.
NE¼ NE¼ SEC. 34
NW¼ NW¼ SEC. 35
SARAH REBECCA GARDNER
Sta. 575+79 to 590+70.6 – Conc. S'walk Lt.
Sta. 576+77 to 590+70.6 – Conc. S'walk Rt.
Use in place.
STD. PIPE CULVERTS
F. E. & S. R. APPROACHES
HEDGE PULLING
NONE
MACHINE GRADING
CULV. EXC. 2
VILLAGE SECTION ON LEFT
VILLAGE SECTION ON RIGHT
SPEC. DITCH RT. SEE X SECTS.
1050
1040
1030
1020
570
575
580
585
590

SP-1

DESIGN DESIGNATION

A.D.T. - 1987 = 1850
A.D.T. - 2007 = 2700

D.H.V. = 10 %
T = 7 %
V = 50 M.P.H.

NORMAL RIGHT OF WAY

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

FEDERAL AID PROJECT
BARTON COUNTY

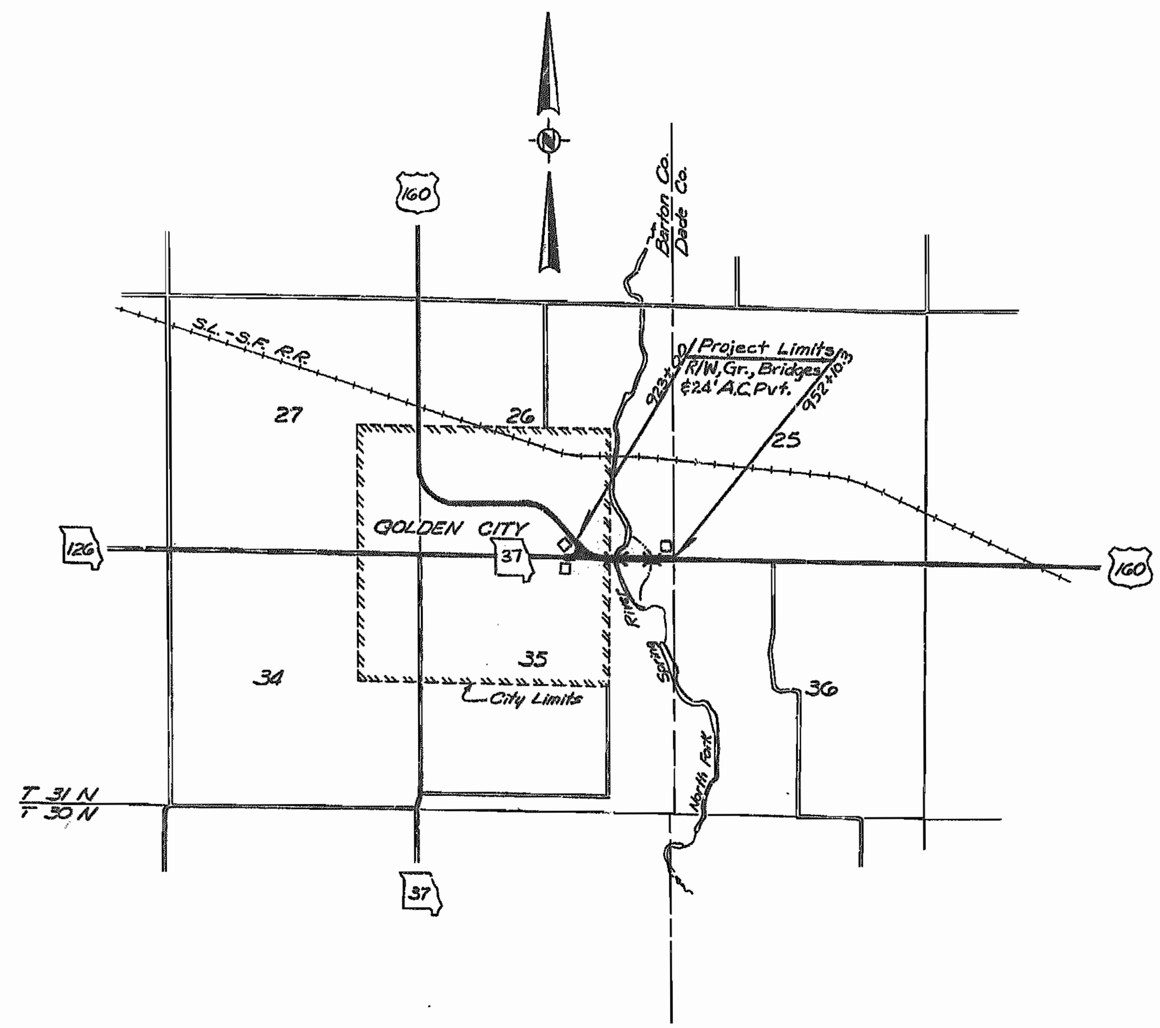
AWARDED
DEC 16 1994

COUNTY BARTON
ROUTE 160
PROJECT ACBRF-160-1(23)
JOB NO. J7P0356

FINAL PLANS

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (2 SHEETS)	2
SUMMARY (1 SHEET)	2-A
SUMMARY (4 SHEETS)	2-B
PLAN-PROFILE	3-4
REFERENCE POINTS	5
SPECIAL SHEETS	
INTERSECTION DETAIL	6
CULVERT SECTIONS	16
BRIDGE DRAWINGS	17-68
STANDARD PLANS INDEX	69
CROSS SECTIONS	
COMPUTER DATA	



1 0 1/4 1/2 3/4 1

SCALE IN MILES

LENGTH OF PROJECT

END OF PROJECT	STA.	952 + 10.3
BEGINNING OF PROJECT	STA.	923 + 00
APPARENT LENGTH		2910.3 FEET

EQUATIONS AND EXCEPTIONS

929+73.0 BK. = 938+50.9 Ahd.

TOTAL CORRECTIONS	-877.9 FEET
NET LENGTH OF PROJECT	2032.4 FEET
STATE LENGTH	0.385 MILES
FEDERAL LENGTH	0.385 MILES

CONVENTIONAL SIGNS
(USED IN PLANS)

BUILDINGS AND STRUCTURES
GUARD RAIL
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER
FENCE
CHAIN LINK
WOVEN WIRE
GATE
UTILITIES
TELEPHONE
POWER
GAS
WATER
UNDERGROUND TELEPHONE
SEWER

TITLE SHEET LEGEND

NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

3802778

FRANK L. CARROLL NUMBER E-6188

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

10-13-94

ASSISTANT TO THE CHIEF ENGINEER-DESIGN DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

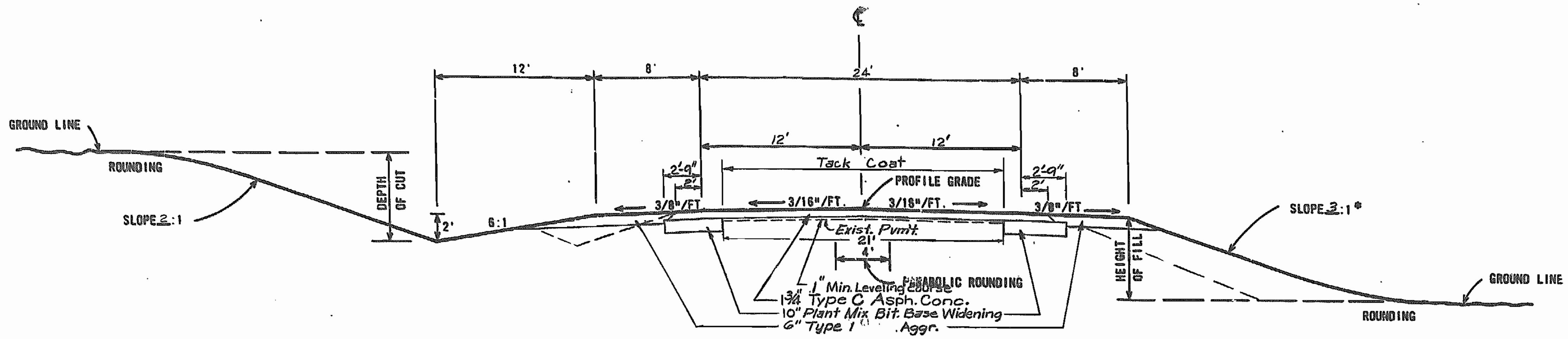
APPROVED

DIVISION ADMINISTRATOR DATE

SP-55B

STATE	JOB NO.	SHEET NO.
MO.	J7P0356	2
DIST. NO.	PROJECT NO. ACBRF-160-1(23)	ROUTE
7	COUNTY BARTON	160

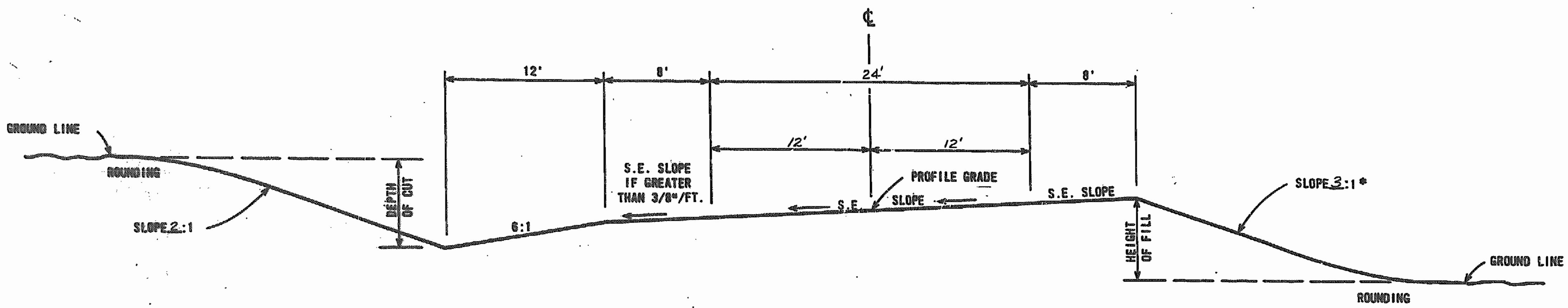
FINAL PLANS



SECTION ON TANGENT

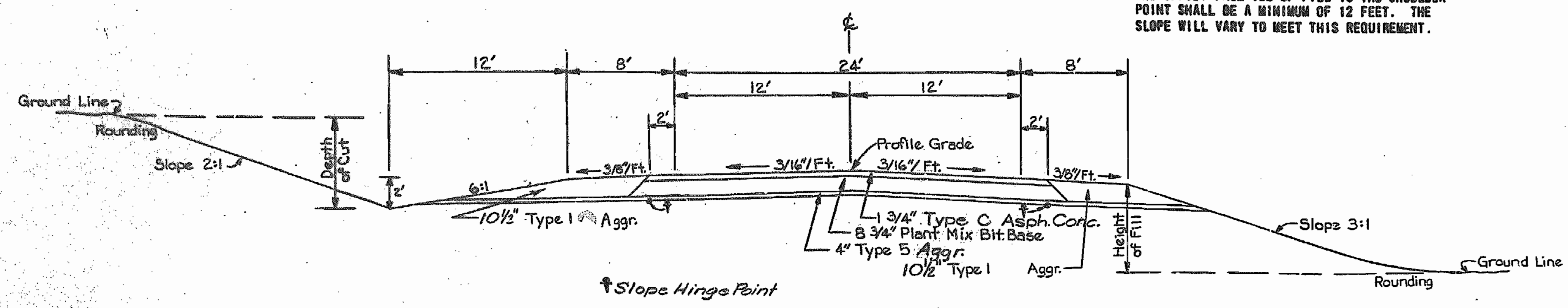
Sta. 923+00 to 928+00
Sta. 950+65 to 952+10.3

WIDEN SHOULDER 2 FEET (IN CUTS OR FILLS) WHERE GUARD RAIL IS TO BE CONSTRUCTED (1 IN 20 TRANSITION)



SECTION ON SUPERELEVATED CURVE

* THE OFFSET FROM TOE OF FILL TO THE SHOULDER POINT SHALL BE A MINIMUM OF 12 FEET. THE SLOPE WILL VARY TO MEET THIS REQUIREMENT.



SECTION ON TANGENT
STA. 928+00 To 950+65

TYPICAL SECTIONS

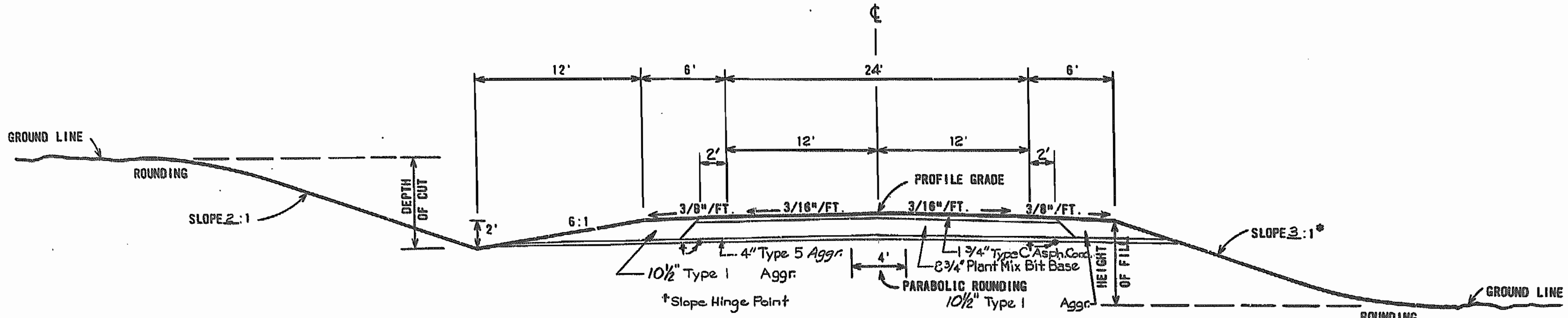
Sheet 1 of 2

55-B

SP-54B

STATE	JOB NO.	SHEET NO.
MO.	J7P0356	2
DIST. NO.	PROJECT NO. ACBRF-160-1(23)	ROUTE
7	COUNTY BARTON	160

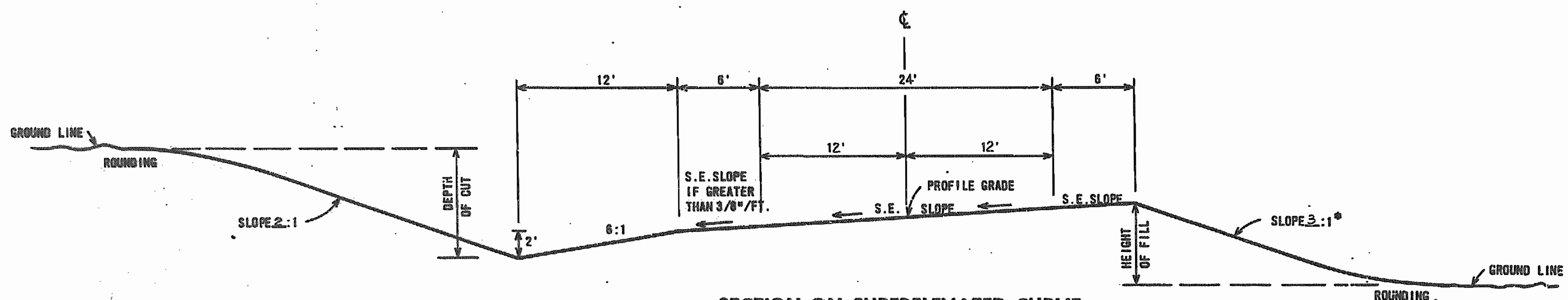
FINAL PLANS



SECTION ON TANGENT

ROUTE 37
STA. 931+00 to 934+62.1

WIDEN SHOULDER 2 FEET (IN CUTS OR FILLS) WHERE GUARD RAIL IS TO BE CONSTRUCTED. (1 IN 20 TRANSITION)



SECTION ON SUPERELEVATED CURVE

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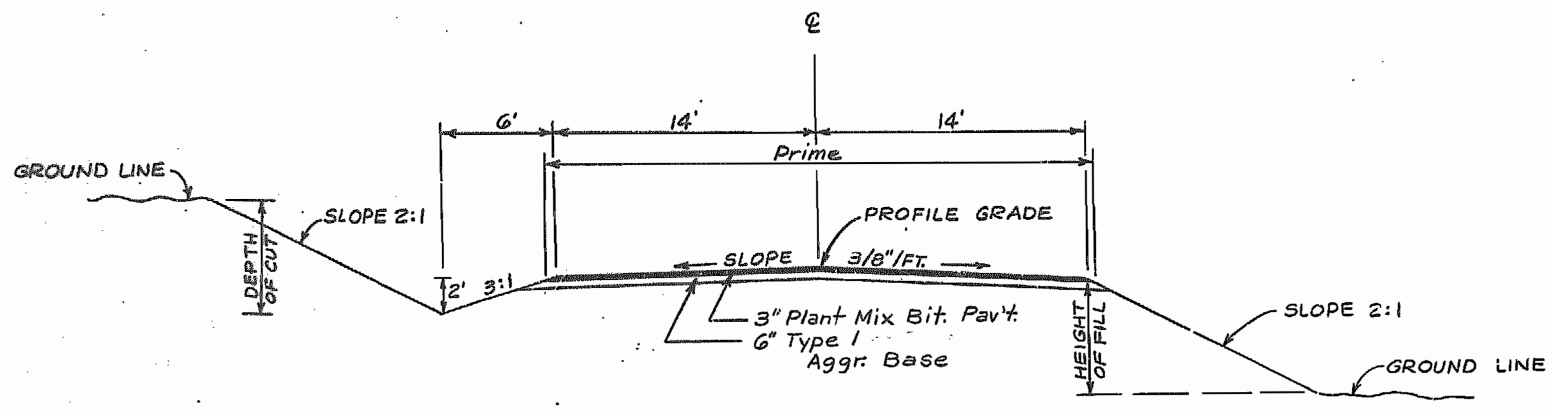


SECTION ON
TEMPORARY BYPASS
STA. 926+30.3 to 943+49.4

TYPICAL SECTIONS
ROUTE 37 & TEMP. BYPASS

34 FOOT ROADBED - 22 FOOT TRAVEL WAY (WITHOUT SAFETY ZONES)

382 287

54 B

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO.	SHEET NO.
MO	J7P0356	2A
DIST NO.	PROJECT NO. ACBRF-160-1(23)	ROUTE
7	COUNTY Barton	160

FINAL PLANS

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
201-10.00	CLEARING	ACRE	.1
201-20.00	GRUBBING	ACRE	.1
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-10.00	CLASS A EXCAVATION (1)	CU YD	16,071
203-55.00	EMBANKMENT IN PLACE	CU YD	30,360
203-60.00	COMPACTING EMBANKMENT	CU YD	3,713
203-70.75	COMPACTING IN CUT	STATION	17.1
206-30.00	CLASS 3 EXCAVATION	CU YD	15
207-10.00	LINEAR GRADING CLASS 1	STATION	1.3
301-10.21	ASPHALT CEMENT (BITUMINOUS BASE) 85-100 OR AC-10	TON	0
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	1,997
301-30.21	ASPHALT CEMENT (BASE WIDENING) 85-100 OR AC-10	TON	0
301-40.00	MINERAL AGGREGATE (BASE WIDENING)	TON	238
304-00.63	TYPE 1 AGGREGATE FOR BASE (6 IN. THICK)	SQ YD	5,849
304-05.04	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	SQ YD	6,891
304-99.10	TYPE 1 AGGREGATE FOR BASE (10.5' THICK)	SQ YD	1,574
310-50.01	CRUSHED STONE (B)	CU YD	37
390-90.00	TEMPORARY SURFACING	CU YD	30
401-10.21	ASPHALT CEMENT (BITUMINOUS PAVEMENT) 85-100 OR AC-10	TON	0
401-20.10	MINERAL AGGREGATE (BITUMINOUS PAVEMENT) BP-1	TON	750
403-10.21	ASPHALT CEMENT (ASPHALTIC CONCRETE) 85-100 OR AC-10	TON	0
403-10.26	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	750
408-10.10	PRIME-LIQUID ASPHALT MC 30	GALLON	780
504-10.00	CONCRETE APPROACH PAVEMENT	SQ YD	533.3
601-10.00	FIELD LABORATORIES	LUMP SUM	1
606-10.10	GUARD RAIL TYPE A	LIN FT	575
606-22.00	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)	EACH	8
606-23.00	TRANSITION SECTION	EACH	8
606-30.10	BREAKAWAY CABLE TERMINAL	EACH	7
608-30.00	CONCRETE MEDIAN STRIP	SQ YD	6.5
609-60.20	TYPE 2 ROCK DITCH LINER	CU YD	137
611-30.20	FURNISHING TYPE 2 ROCK BLANKET	CU YD	1,329
611-30.40	PLACING TYPE 2 ROCK BLANKET	CU YD	1,329
612-10.30	MOVABLE BARRICADE	EACH	4
612-90.20	INSTALLING GIVE EM A BRAKE 4 FT. X 4 FT. SIGN	EACH	4
616-10.05	CONSTRUCTION SIGNS	SQ FT	458
616-10.10	RELOCATED SIGNS	SQ FT	0

ITEM	DESCRIPTION	UNIT	QUANTITY
616-10.20	CHANNELIZER (DRUM)	EACH	30
616-10.50	FLASHING ELECTRIC LIGHT	EACH	4
618-10.00	MOBILIZATION	LUMP SUM	1
619-10.00	PAVEMENT EDGE TREATMENT	LIN FT	1,000
620-50.03	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID YELLOW	100 FT	63.2
620-50.04	TYPE 1 PREFORMED MARKING TAPE 4 IN., INTERMITTENT YELLOW	100 FT	4.8
620-70.00	PAVEMENT STRIPE REMOVAL (PAINT)	100 FT	2
725-03.24	24 IN. PIPE CULVERT GROUP B	LIN FT	30
725-03.30	30 IN. PIPE CULVERT GROUP B	LIN FT	38
725-10.60	60 IN. CORRUGATED METALLIC-COATED STEEL PIPE	LIN FT	68
732-10.16	24 IN. SAFETY SLOPE END SECTION	EACH	2
732-10.17	30 IN. SAFETY SLOPE END SECTION	EACH	2
802-50.00	TYPE 3 MULCH	ACRE	5.9
805-10.00	SEEDING	ACRE	5.9
806-10.11	SLOPE DRAINS	LIN FT	225
806-10.14	SILT FENCE DITCH CHECK	EACH	40
806-10.16	SEDIMENT REMOVAL	CU YD	80
806-10.17	TEMPORARY SEEDING AND MULCHING	ACRE	0
806-10.19	SILT FENCE	LIN FT	1,781
	BRIDGE DWG. NO. A4821T STA. 930+77		
206-10.00	CLASS 1 EXCAVATION	CU YD	91.5
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	769
702-60.00	PRE-BORE FOR PILING	LIN FT	238
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	59.1
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	2,800
712-99.01	ERECTING SUPERSTRUCTURE	LUMP SUM	1
712-99.02	REMOVING AND STORING STRUCTURE	LUMP SUM	1
[illegible]	[illegible]		
	BRIDGE DWG. NO.A-4821 STA.939+35.8		
202-10.20	REMOVAL OF BRIDGES	LUMP SUM	1
206-10.00	CLASS 1 EXCAVATION	CU YD	260
206-20.00	CLASS 2 EXCAVATION	CU YD	50.0
503-10.10	BRIDGE APPROACH SLAB (BRIDGE)	SQ YD	224
702-10.12	STRUCTURAL STEEL PILES (12 IN.)	LIN FT	219
702-60.00	PRE-BORE FOR PILING	LIN FT	45
702-70.00	PILE POINT REINFORCEMENT	EACH	10

ITEM	DESCRIPTION	UNIT	QUANTITY
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	118.0
703-42.13	SLAB ON CONCRETE I-GIRDER	SQ YD	821
703-42.15	SAFETY BARRIER CURB	LIN FT	394
703-71.50	LAMINATED NEOPRENE BEARING PAD (TAPERED)	EACH	30
705-11.59	PRESTRESSED CONCRETE I-GIRDER, 59 FT SPAN	EACH	15
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	12,850
712-36.10	SLAB DRAIN	EACH	16
712-36.50	VERTICAL DRAIN AT END BENTS	EACH	2
	BRIDGE DWG. NO. A-4822 STA. 947+08		
202-10.20	REMOVAL OF BRIDGES	LUMP SUM	1
206-10.00	CLASS 1 EXCAVATION	CU YD	33.0
206-20.00	CLASS 2 EXCAVATION	CU YD	11.5
503-10.10	BRIDGE APPROACH SLAB (BRIDGE)	SQ YD	224
702-10.10	STRUCTURAL STEEL PILES (10 IN.)	LIN FT	159
702-60.00	PRE-BORE FOR PILING	LIN FT	70
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	66.8
703-42.13	SLAB ON CONCRETE I-GIRDER	SQ YD	461
703-42.15	SAFETY BARRIER CURB	LIN FT	228
703-70.30	PLAIN NEOPRENE BEARING PAD	EACH	10
703-71.45	LAMINATED NEOPRENE BEARING PAD	EACH	20
705-11.33	PRESTRESSED CONCRETE I-GIRDER, 33 FT SPAN	EACH	15
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	11,130
712-36.10	SLAB DRAIN	EACH	18
712-36.50	VERTICAL DRAIN AT END BENTS	EACH	2
500	Contingent Items		
501.01	Erosion Control Geotextile	S.Y.	977
501.02	Asph. Cem. BB AC-20	TON	83.9
501.03	Asph. Cem. BW AC-20	TON	9.9
501.04	Asph. Cem. BP AC-20	TON	38.7
501.05	Asph. Cem. AC AC-20	TON	38.6
501.06	Type III Object Marker	Ea.	8
501.07	Type I Tape, 4 in. Solid White	100 Ft.	5
501.08	15 in. CMP	Lin. Ft.	50
501.09	15 in. Safety Slope End	Ea.	2
501.10	Density Samples	Ea.	3
502.01	Cap Replacement BR A4821T	Ea.	1
502.02	Pre-bore for Piling BR A4821T	Lin. Ft.	72
503.01	Drilling Test Holes BR A-4821	Lin. Ft.	16
504.01	Drilling Test Holes BR A-4822	Lin. Ft.	16
	Accepted:		
	Prepared by: Jeffrey C Capps SEN. Const. Insp.		8/26/96
	Reviewed by: [illegible] R.E.	9-9-96	
	District Office: Deborah Briggs	10-22-96	
	Support Center: Mark A. Anderson, F.P.R.		12-20-96

BARTON

160

J7P0356

REV MAY 1, 89

STATE	JOB NO.	SHEET NO.
MO	J7P0356	2B
DIST NO. 7	PROJECT NO. ACBRF-160-1(23)	ROUTE 160
	COUNTY BARTON	

SHEET 1 OF 3

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ENTRANCES, APPROACHES & SIDE ROAD

SHEET	STATION	TYPE	LOC.	SKEW	STD.	WIDTH FT.	GRADE %	GROUP "B" P. LIN. FT. 15"	24"	30"	S.S.E.S. EACH 15"	24"	30"	OVER FILL FT.	CR. ST. B C.Y.	6" TYPE 1 AGGR. BASE S.Y.	PRIME GAL.	2" TYPE C ASPH. CONC. ASPH. CEM. TONS	MIN. AGGR. TONS	TAPER OR RADIUS FT.	REMARKS
3	926+00	I	LT.	0	203.61	20	3.5													10 (T)	AGGR. RTE. 160
3	928+95	I	RT.	0	203.61	20	7.3		30'			2		1.0		193.6				10 (R)	ASPH. RTE. 160
3	944+00	I	LT.	0	203.61	20	9.5													10 (T)	AGGR. RTE. 160
3	951+60	I	RT.	0	203.61	20	9.4			38'			2	4.5						30 (R)	AGGR. RTE. 160
6	931+72	I	LT.	0	203.61	16	EXIST.									11.8				5 (T)	ASPH. RTE. 37
6	932+07	I	RT.	0	203.61	14	EXIST.									10.7				5 (T)	ASPH. RTE. 37
6	933+50	II	RT.	0	203.62	24	5.6	50'			2					97.7				30 (R)	ASPH. S.R. RTE.37
							TOTALS				2	2	2			313.8					
							USE	50'	30'	38'					37	314					

PAVEMENT STRIPE REMOVAL (PAINT)

SHEET	STATION	LOC.	LIN. FT.	REMARKS
3	926+30 TO 927+30	℄	100'	REMOVE EXIST. ℄
3	950+60 TO 952+00	℄	140'	REMOVE EXIST. ℄
		TOTAL	240'	
		USE	2.0 (100 FT.)	

CLEARING & GRUBBING

SHEET	CLEAR UNITS	GRUB UNITS	REMARKS
3	13	13	RTE. 160
TOTALS	13	13	
USE	0.1 ACRES	0.1 ACRES	

GUARD RAIL (TYPE A)

SHEET	STATION	LOC.	GUARDRAIL LIN. FT.	BCT EACH	TRANS. SEC. EACH	BR. ANCHOR SEC. EACH	REMARKS
3	929+67.8 TO 939+08.2	LT.	62.5	1	1	1	
3	929+40 TO 939+08.2	RT.	90.3		1	1	EQ. 929+73.0 BK. = 938+50.9 AHD.
3	929+10 TO 929+40	RT.	47.2				30' RADIUS
3	941+42.9 TO 942+05.4	LT.	62.5	1	1	1	
3	941+42.9 TO 942+05.4	RT.	62.5	1	1	1	
3	946+19.9 TO 946+82.4	LT.	62.5	1	1	1	
3	946+19.9 TO 946+82.4	RT.	62.5	1	1	1	
3	948+35.1 TO 948+97.6	LT.	62.5	1	1	1	
3	948+35.1 TO 948+97.6	RT.	62.5	1	1	1	
		TOTALS	575	7	8	8	

TYPE I PREFORMED MARKING TAPE

SHEET	STATION	LOC	4" SOLID YELLOW LIN. FT.	4" INT. YELLOW LIN. FT.	REMARKS
3	923+00 TO 947+47	℄ LT.	1569.0		EQ. 929+73.0 BK =938+50.9 AHD
3	923+00 TO 927+74	℄ RT.	474.0		
3	927+74 TO 952+10.3	℄		390.0	EQ 929+73.0 BK=938+50.9 AHD.
3	931+00 TO 934+40	℄ RT.	340.0		ROUTE 37
3	931+00 TO 934+40	℄ LT.	340.0		ROUTE 37
3	931+00 TO 934+50	℄		87.5	RTE. 37 CONNECTION
3	926+00 TO 944+00	℄ RT/LT	3600.0		BYPASS
		TOTALS	6323.0	477.5	
		USE	63.2 (100 FT.)	4.8 (100 FT.)	

CONCRETE MEDIAN

SHEET	STATION	LOC.	CONC. MEDIAN S.Y.	REMARKS
3	925+13.6 TO 925+22.5	20' RT.	6.5	LOW PROFILE ISLAND
		TOTAL	6.5	

CORRUGATED METALLIC-COATED STEEL PIPE

SHEET	STATION	LOC.	60" LIN. FT.	CLASS 3 EXC. C.Y.	REMARKS
4	938+95	℄	68	15	BYPASS OVERFLOW SALVAGE FOR MANT.
	TOTAL		68	15	

REMOVAL OF IMPROVEMENTS

SHEET	STATION	LOC.	DESCRIPTION	NO.	REMARKS
	TOTAL	1	LUMP SUM		

CONCRETE APPROACH PAVEMENT

SHEET	STATION	LOC.	CONC. APPROACH PAVEMENT S.Y.	REMARKS
3	938+80.8 TO 939+10.8	℄	133.33	40' WIDE
3	941+40.3 TO 941+70.3	℄	133.33	40' WIDE
3	946+53.0 TO 946+83.0	℄	133.33	40' WIDE
3	948+34.5 TO 948+64.5	℄	133.33	40' WIDE
	TOTALS		533.32	
	USE		533.3	

FURNISHING & PLACING TYPE 2 ROCK BLANKET

SHEET	STATION	LOC.	C.Y.	REMARKS
3	939+38.3 TO 939+75	SPILL FILL	368.3	
3	940+65 TO 941+11.3	SPILL FILL	309.4	
3	947+10.5 TO 947+50	SPILL FILL	313.6	
3	947+60 TO 948+05.5	SPILL FILL	337.6	
		TOTAL	1328.9	
		USE	1329	

ROCK DITCH LINER (TYPE 2)

SHEET	STATION	LOC.	DITCH DEPTH	LINER THICK	DIMENSION WIDTH	DIMENSION LENGTH	FORE SLOPE	BACK SLOPE	C.Y.
3	929+10 TO 939+85	RT.	2'	12"	8'	197.1	3:1	2:1	137.2
								TOTAL	137.2
								USE	137

TEMPORARY SURFACING

TOTAL 30 C.Y.

383-394

MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT

SUMMARY OF QUANTITIES

TEMP. EROS. AND SEDIMENT CONTRL.

	DITCH CHECK SILT FENCE EACH	SILT FENCE LIN. FT.	SEDIMENT REMOVAL C.Y.	TYPE A TEMP. BERM LIN. FT.	SLOPE DRAIN FT.	REMARKS	TEMP. SEED & MULCH AC.
TOTALS	40	1781	80		225		0

385

D-28S
REV SEP. 23, 1993

STATE	JOB NO.	SHEET NO.
MO	J7P0356	2B
DIST NO. 7	PROJECT NO. ACBRF-160-1(23)	ROUTE 160
	COUNTY BARTON	

SUMMARY OF QUANTITIES

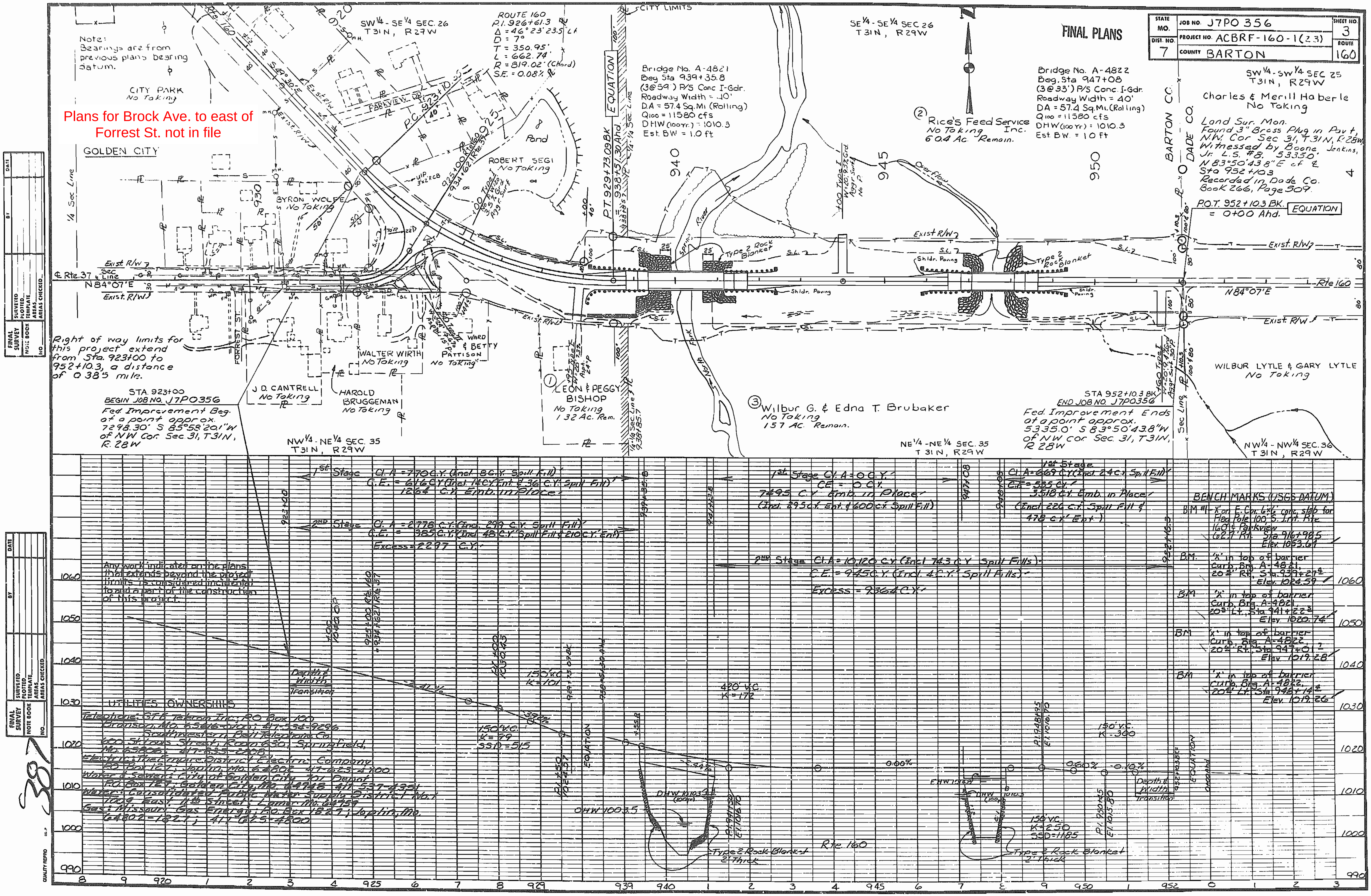
FINAL PLANS

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
							WARNING SIGNS
W01-1Lb	48X48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48X48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48X48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48X48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48X48	16.0	1	16			REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48X48	16.0	1	16			REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48X48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4Lb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM LT ARROWS)
W01-4Rb	48X48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)
W01-6	48X24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.0					HORIZONTAL ARROW (SYMBOL)
W01-7	48X24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18X24	3.0	18	54			CHEVRON (SYMBOL)
W03-1b	48X48	16.0					STOP AHEAD
W03-2b	48X48	16.0					YIELD AHEAD
W03-3b	48X48	16.0					SIGNAL AHEAD (SYMBOL)
W03-4b	48X48	16.0					BE PREPARED TO STOP
W04-1Lb	48X48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1Rb	48X48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1a	48X48	16.0					ROAD NARROWS
W05-3a	48X48	16.0					ONE LANE BRIDGE
W06-1b	48X48	16.0					DIVIDED HIGHWAY
W06-2b	48X48	16.0					DIVIDED HIGHWAY ENDS
W06-3b	48X48	16.0					TWO WAY TRAFFIC (SYMBOL)
W06-3x	24X18	3.0					TWO WAY TRAFFIC (PLAQUE)
W08-1b	48X48	16.0					BUMP
W08-2b	48X48	16.0					DIP
W08-3	48X48	16.0					PAVEMENT ENDS
W08-4b	48X48	16.0					SOFT SHOULDER
W08-5b	48X48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6b	48X48	16.0					TRUCK CROSSING
W08-6c	48X48	16.0					TRUCK ENT (INCLUDES W025-1a PLATE)
W08-7a	36X36	9.0					LOOSE GRAVEL
W08-9	48X48	16.0	2	32			LOW SHOULDER
W08-9La	48X48	16.0					UNEVEN PAVEMENT (SYM FOR LT DROPOFF)
W08-9Ra	48X48	16.0					UNEVEN PAVEMENT (SYM FOR RT DROPOFF)
W09-1R	48X48	16.0					RIGHT LANE ENDS (INCLUDES W025-3c PLATE)
W09-2Ra	48X48	16.0					LANE ENDS MERGE RIGHT (INCLUDES W025-3b PLATE)
W10-1a	42Dia	9.6					RAILROAD CROSSING
W012-1	24X24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W012-2a	48X48	16.0					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.0					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W013-1a	24X24	4.0					ADVISORY SPEED (PLAQUE)
W020-1	48X48	16.0	3	48			ROAD CONST AHEAD (INCLUDES W025-6 PLATE)
W020-2	48X48	16.0	2	32			DETOUR AHEAD (INCLUDES W025-1b PLATE)
W020-3	48X48	16.0	1	16			ROAD CLOSED AHEAD (INCLUDES W025-1c PLATE)
W020-4a	48X48	16.0	2	32			ONE LANE ROAD AHEAD (INCLUDES W025-1a PLATE)
W020-5	48X48	16.0					RIGHT LANE CLOSED AHEAD (INCL W025-3d PLATE)
W020-6a	48X48	16.0					RIGHT LANE CLOSED (INCLUDES W025-3c PLATE)
W020-7b	48X48	16.0	2	32			FLAGGER (SYMBOL)
W020-7x	24X18	3.0					500 FT/1000 FT (PLAQUE)
W020-9c	48X48	16.0	2	32			OPEN TRENCH
W021-2b	48X48	16.0					FRESH OIL
W021-5b	48X48	16.0	2	32			SHOULDER WORK AHEAD
W021-7	36X36	9.0					SAND BLASTING
W022-1	48X48	16.0					BLASTING ZONE 1000 FT
W022-2	42X36	10.5					TURN OFF 2-WAY RADIO
W022-3	42X36	10.5					END BLASTING ZONE
W022-5	30X30	6.3					NO PASSING ZONES UNMARKED
W025-1a	26X9						1000 FT/1500 FT Plate
W025-1b	38X9						500 FT/1000 FT Plate
W025-1c	34X9						500 FT/1000 FT Plate

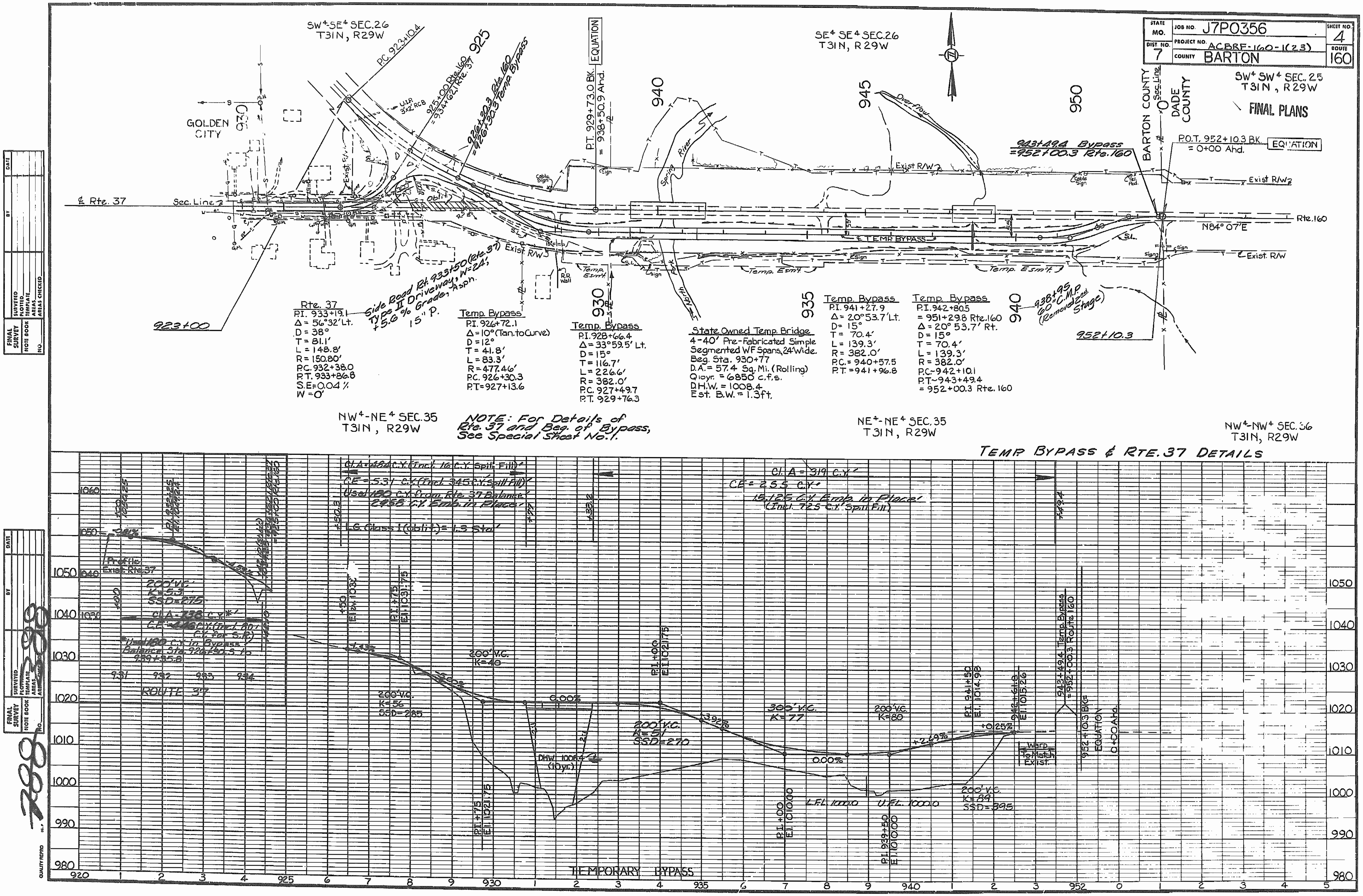
SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
W025-3b	30X9						LEFT Plate
W025-3c	33X9						LEFT/CENTER Plate
W025-3d	22X9						LEFT/CENTER Plate
W025-5	30X12	2.5					1/2 MILE/1 MILE (PLAQUE)
W025-6	28X9						RAMP/BRIDGE Plate
							REGULATORY SIGNS
R1-1b	48X48	13.25					STOP
R1-2a	48X48X48	6.93					YIELD
R1-3	20X9	1.25					4-WAY (PLAQUE)
R1-5	20X9	1.25					3-WAY (PLAQUE)
R2-1b	36X48	12.00	6	72			SPEED LIMIT XX 1 - 55, 3 - 40, 2 - 30
R2-5b	36X48	12.00	1	12			REDUCED SPEED AHEAD
R3-1b	36X36	9.00					NO RIGHT TURN (SYMBOL)
R3-2b	36X36	9.00					NO LEFT TURN (SYMBOL)
R3-3a	36X36	9.00					NO TURNS
R3-4	24X24	4.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1b	36X48	12.00					DO NOT PASS
R4-2b	36X48	12.00					PASS WITH CARE
R4-7Lb	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R4-17La	36X36	9.00					KEEP LEFT
R4-17Ra	36X36	9.00					KEEP RIGHT
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1La	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1Ra	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2La	24X30	5.00					ONE WAY (LEFT)
R6-2Ra	24X30	5.00					ONE WAY (RIGHT)
R11-2	48X30	10.00	2	20			ROAD CLOSED
R11-3	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
R12-3b	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
S4-4a	36X18	4.50					WHEN FLASHING
							GUIDE SIGNS
G020-1	60X36	15.00					ROAD CONSTRUCTION NEXT XX MILES
G020-2	60X24	10.00					END CONSTRUCTION
M04-8a	30X15	3.13					DETOUR (PLAQUE)
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00	1	6			DETOUR (ARROW LEFT)
M04-10R	48X18	6.00	1	6			DETOUR (ARROW RIGHT)
M04-11	24X18	3.00					DETOUR ENDS
M5-1L	21X15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21X15	2.19					ADVANCE RIGHT TURN ARROW
							MISCELLANEOUS SIGNS
616-10.05 CONSTRUCTION SIGNS TOTAL				458			
616-10.10 RELOCATED SIGNS TOTAL						0	

SHEET 3 OF 3

ITEM NUMBER	SIZE (INS)	TOTAL QTY	DESCRIPTION
616-10.20	36X18	30	CHANNELIZER (DRUM)
616-10.35	8X24		TYPE I BARRICADE (ONE RAIL)
616-10.36	8X24		TYPE II BARRICADE (TWO RAILS)
616-10.40	48X96		FLASHING ARROW PANEL
616-10.45	18X18		TYPE I OBJECT MARKER
616-10.46	6X12		TYPE II OBJECT MARKER
616-10.47	10X30		TYPE III OBJECT MARKER
616-10.50	8	4	FLASHING ELECTRIC LIGHT
616-10.51	---		WARNING LIGHT TYPE A
616-10.52	---		WARNING LIGHT TYPE B
616-10.53	---		WARNING LIGHT TYPE C
616-10.54	---		STROBE LIGHT
616-10.60	---		RAISED PAVEMENT MARKER
616-10.70	28		FLEXIBLE DELINEATOR
619-10.00	LIN FT	1000	PAVEMENT EDGE TREATMENT
612-10.30	72X144	4	MOVEABLE BARRICADE (THREE RAILS)
612-90.20	48X48	4	GIVE EM A BRAKE
601.06	10x30	8	TYPE III OBJECT MARKER



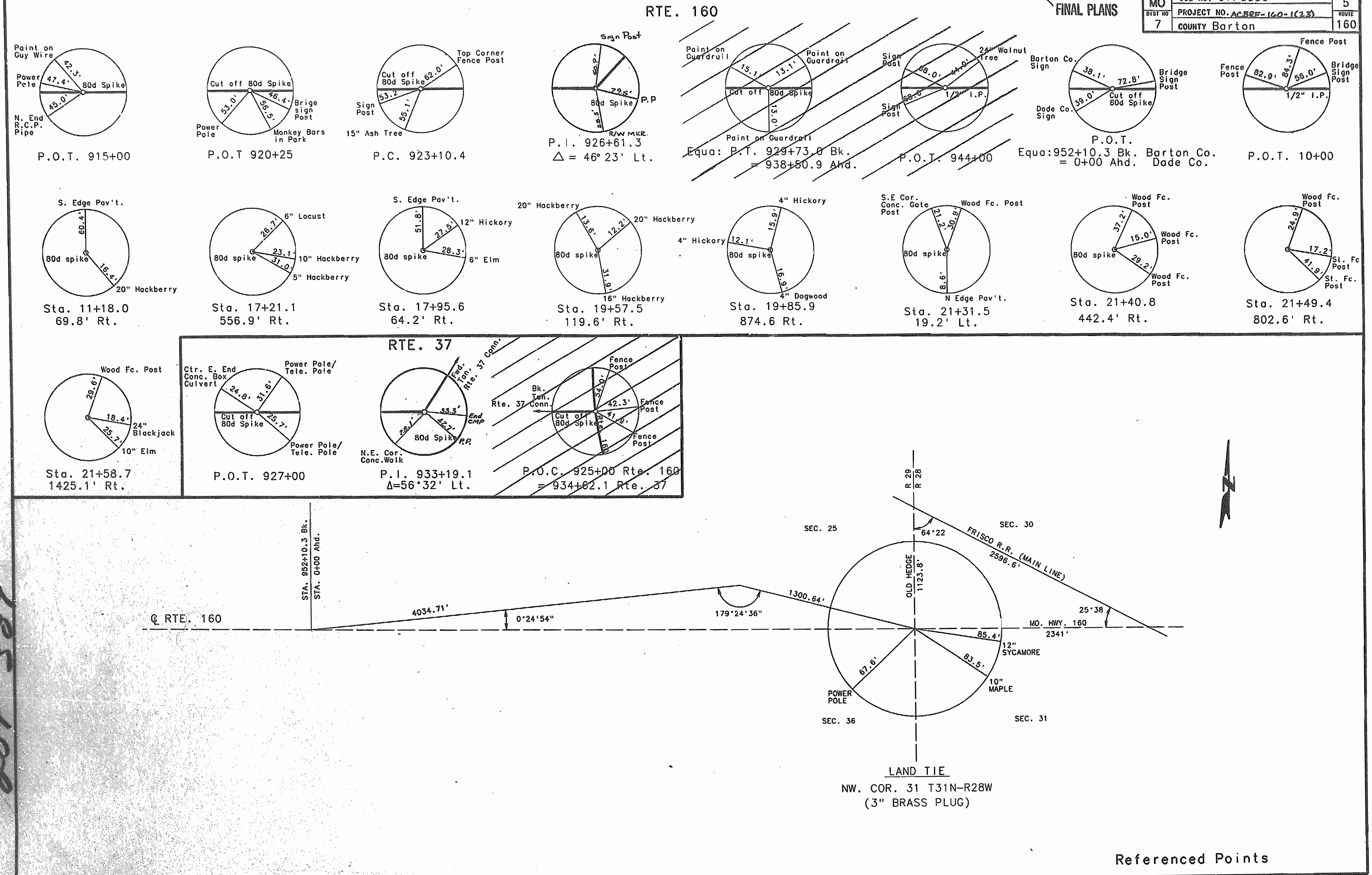
FINAL PLANS
STATE MO. | JOB NO. J7P0356 | SHEET NO. 3
DIST. NO. 7 | PROJECT NO. ACBRF-160-1(23) | ROUTE 160
COUNTY BARTON
Plans for Brock Ave. to east of Forrest St. not in file
Note: Bearings are from previous plans bearing datum.
SW 1/4 - SE 1/4 SEC. 26 T31N, R29W
SE 1/4 - SE 1/4 SEC 26 T31N, R29W
SW 1/4 - SW 1/4 SEC 25 T31N, R29W
NW 1/4 - NE 1/4 SEC. 35 T31N, R29W
NE 1/4 - NE 1/4 SEC. 35 T31N, R29W
NW 1/4 - NW 1/4 SEC. 36 T31N, R29W
ROUTE 160 P.I. 926+61.3 Δ = 46°23'23.5" Lt D = 7° T = 350.95' L = 662.74' R = 819.02' (Chord) S.E. = 0.08%
CITY PARK No Taking
GOLDEN CITY
BYRON WOLFE No Taking
ROBERT SEGI No Taking
Pond
PARKVIEW
FORREST ST.
Rte. 37
N84°07'E
EQUATION
P.T. 929+73.09 BK. = 938+51.30 Ahd.
CITY LIMITS
Bridge No. A-4821 Beg Sta 939+35.8 (3@59') P/S Conc I-Gdr. Roadway Width = 40' D.A = 57.4 Sq.Mi (Rolling) Q100 = 11580 cfs DHW (100 Yr.) = 1010.3 Est. BW = 1.0 ft
Bridge No. A-4822 Beg. Sta 947+08 (3@33') P/S Conc. I-Gdr. Roadway Width = 40' DA = 57.4 Sq.Mi. (Rolling) Q100 = 11580 cfs DHW (100 Yr) = 1010.3 Est. BW. = 1.0 ft
(2) Rice's Feed Service Inc. No Taking 60.4 Ac. Remain.
Charles & Merill Haberle No Taking
Land Sur. Mon. Found 3" Brass Plug in Pavt, N.W. Cor. Sec 31, T31N, R28W, Witnessed by Boone Jenkins, Jr. L.S. #8, 53350' N 83°50'43.8" E of ℄ Sta 952+103 Recorded in Dade Co. Book 266, Page 509.
P.O.T. 952+10.3 BK. = 0+00 Ahd. EQUATION
BARTON CO. | DADE CO.
Spring River
North Fork
Overflow
Type 2 Rock Blanket
Right of way limits for this project extend from Sta. 923+00 to 952+10.3, a distance of 0.385 mile.
STA. 923+00 BEGIN JOB NO. J7P0356
Fed. Improvement Beg. at a point approx. 7298.30' S 85°58'20.1"W of NW Cor. Sec 31, T31N, R.28W
J D. CANTRELL No Taking
HAROLD BRUGGEMAN No Taking
WALTER WIRTH No Taking
WARD & BETTY PATTISON No Taking
(1) LEON & PEGGY BISHOP No Taking 132 Ac. Rem.
(3) Wilbur G. & Edna T. Brubaker No Taking 157 AC. Remain.
WILBUR LYTLE & GARY LYTLE No Taking
STA 952+10.3 BK END JOB NO. J7P0356
Fed. Improvement Ends at a point approx. 5335.0' S 83°50'43.8"W of NW cor. Sec. 31, T31N, R 28W
1st Stage Cl. A = 770 C.Y. (Incl 86 C.Y. Spill Fill) C.E. = 616 C.Y. (Incl 14 C.Y. Ent. & 36 C.Y. Spill Fill) 1264 C.Y. Emb. in Place
2nd Stage Cl. A = 2778 C.Y. (Incl. 299 C.Y. Spill Fill) C.E. = 385 C.Y. (Incl 48 C.Y. Spill Fill & 210 C.Y. Ent.) Excess = 2297 C.Y.
1st Stage Cl. A = 0 C.Y. CE = 0 C.Y. 7495 C.Y. Emb. in Place (Incl. 295 C.Y. Ent. & 600 C.Y. Spill Fill)
1st Stage Cl. A = 669 C.Y. (Incl. 24 C.Y. Spill Fill) C.E. = 585 C.Y. 3518 C.Y. Emb. in Place (Incl. 226 C.Y. Spill Fill & 478 C.Y. Ent.)
2nd Stage Cl. A = 10,120 C.Y. (Incl. 743 C.Y. Spill Fills) C.E. = 9450 C.Y. (Incl. 42 C.Y. Spill Fills) Excess = 9364 C.Y.
BENCH MARKS (USGS DATUM)
BM #1 'X' on E. Cor. 6x6' conc. slab for Hwy Pole 100, S. Int. Rte 160 & Parkview 62' Rt. Sta. 916+98.5 Elev. 1053.61
BM 'X' in top of barrier Curb, Brg. A-4821, 20' Rt. Sta. 939+27 Elev. 1024.59
BM 'X' in top of barrier Curb, Brg. A-4821 20' Lt. Sta 941+22 Elev. 1020.74
BM 'X' in top of barrier Curb, Brg. A-4822 20' Rt. Sta 947+01 Elev 1019.28
BM 'X' in top of barrier Curb, Brg. A-4822, 20' Lt. Sta 948+14 Elev. 1019.26
Any work indicated on the plans that extends beyond the project limits is considered incidental to and a part of the construction of this project.
UTILITIES OWNERSHIPS
Telephone: GTE Telecom Inc; P.O. Box 100 Branson, Mo. 65616; 417-334-9296
Southwestern Bell Telephone Co. 600 St. Louis Street, Room 630, Springfield, Mo. 65806; 417-833-6608
Electric: The Empire District Electric Company P.O. Box 127; Joplin, Mo. 64802; 417-623-4700
Water & Sewer: City of Golden City, 701 Depot, P.O. Box 12; Golden City, Mo. 64748; 417-537-4351
Water: Consolidated Public Water Supply District No. 1 1009 East 11th Street, Lamar Mo. 64759
Gas: Missouri Gas Energy, P.O. Box 1827; Joplin, Mo. 64802-1827; 417-625-4800
150' V.C. K = 101
420' V.C. K = 172
150' V.C. K = 79 SSD = 515
150' V.C. K = 380
150' V.C. K = 250 SSD = 1185
-2.41%
-3.39%
0.00%
0.60%
-0.10%
DHW 1003.5
Type 2 Rock Blanket 2' Thick
Rte. 160
Depth & Width Transition
1060 1050 1040 1030 1020 1010 1000 990
920 925 929 939 940 945 950 952
387



STATE MO. JOB NO. J7P0356 SHEET NO. 4
DIST. NO. 7 PROJECT NO. ACBRF-160-1(23) ROUTE 160
COUNTY BARTON
FINAL PLANS
SW¼-SE¼ SEC.26 T31N, R29W
SE¼ SE¼ SEC.26 T31N, R29W
SW¼ SW¼ SEC.25 T31N, R29W
NW¼-NE¼ SEC.35 T31N, R29W
NE¼-NE¼ SEC.35 T31N, R29W
NW¼-NW¼ SEC.36 T31N, R29W
GOLDEN CITY
BARTON COUNTY
DADE COUNTY
Sec. Line
℄ Rte. 37
Rte. 160
N84° 07'E
P.C. 923+10.4
925+00 Rte.160 = 934+62 Rte.37
926+30.3 Rte.160 = 926+30.3 Temp. Bypass
P.T. 929+73.0 BK. = 938+50.9 Ahd.
EQUATION
943+49.4 Bypass = 952+00.3 Rte.160
P.O.T. 952+10.3 BK. = 0+00 Ahd.
EQUATION
Exist R/W
Temp. Esm't.
TEMP BYPASS
Spring River
North Fork
Overflow
923+00
952+10.3
938+95 60" C.M.P. (Removed 2nd Stage)
Side Road Rt. 933+50 (Rte. 37) Type II Driveway, W=24', +5.6% Grade, Asph. 15" P.
Rte. 37
P.I. 933+19.1
Δ = 56°32' Lt.
D = 38°
T = 81.1'
L = 148.8'
R = 150.80'
P.C. 932+38.0
P.T. 933+86.8
S.E = 0.04 ′/′
W = 0'
Temp. Bypass
P.I. 926+72.1
Δ = 10° (Tan. to Curve)
D = 12°
T = 41.8'
L = 83.3'
R = 477.46'
P.C. 926+30.3
P.T. 927+13.6
Temp. Bypass
P.I. 928+66.4
Δ = 33°59.5' Lt.
D = 15°
T = 116.7'
L = 226.6'
R = 382.0'
P.C. 927+49.7
P.T. 929+76.3
State Owned Temp. Bridge
4-40' Pre-Fabricated Simple Segmented WF Spans, 24' Wide.
Beg. Sta. 930+77
D.A. = 57.4 Sq. Mi. (Rolling)
Q10yr. = 6850 c.f.s.
D.H.W. = 1008.4
Est. B.W. = 1.3 ft.
Temp. Bypass
P.I. 941+27.9
Δ = 20°53.7' Lt.
D = 15°
T = 70.4'
L = 139.3'
R = 382.0'
P.C. = 940+57.5
P.T. = 941+96.8
Temp. Bypass
P.I. 942+80.5 = 951+29.8 Rte.160
Δ = 20°53.7' Rt.
D = 15°
T = 70.4'
L = 139.3'
R = 382.0'
P.C. 942+10.1
P.T. 943+49.4 = 952+00.3 Rte. 160
NOTE: For Details of Rte. 37 and Beg. of Bypass, See Special Sheet No. 1.
TEMP BYPASS & RTE. 37 DETAILS
Cl. A = 484 C.Y. (Incl. 16 C.Y. Spill Fill)
CE = 531 C.Y. (Incl. 345 C.Y. Spill Fill)
Used 180 C.Y. from Rte. 37 Balance
2458 C.Y. Emb. in Place
L.G. Class I (oblit.) = 1.3 Sta.
Cl. A = 319 C.Y.
CE = 255 C.Y.
15,125 C.Y. Emb. in Place (Incl. 725 C.Y. Spill Fill)
Profile Exist. Rte. 37
200' V.C. K=53 SSD=275
200' V.C. K=40
200' V.C. K=56 SSD=285
200' V.C. K=51 SSD=270
305' V.C. K=77
200' V.C. K=80
200' V.C. K=89 SSD=395
0.00%
+0.25%
+2.49%
DHW 1008.4 (10 yr.)
L.F.L. 1000.0
U.F.L. 1000.0
Warp To Match Exist.
943+49.4 Temp. Bypass = 952+00.3 Route 160
952+10.3 BK. EQUATION 0+00 Ahd.
ROUTE 37
TEMPORARY BYPASS
1060 1050 1040 1030 1020 1010 1000 990 980
920 925 930 935 940 952

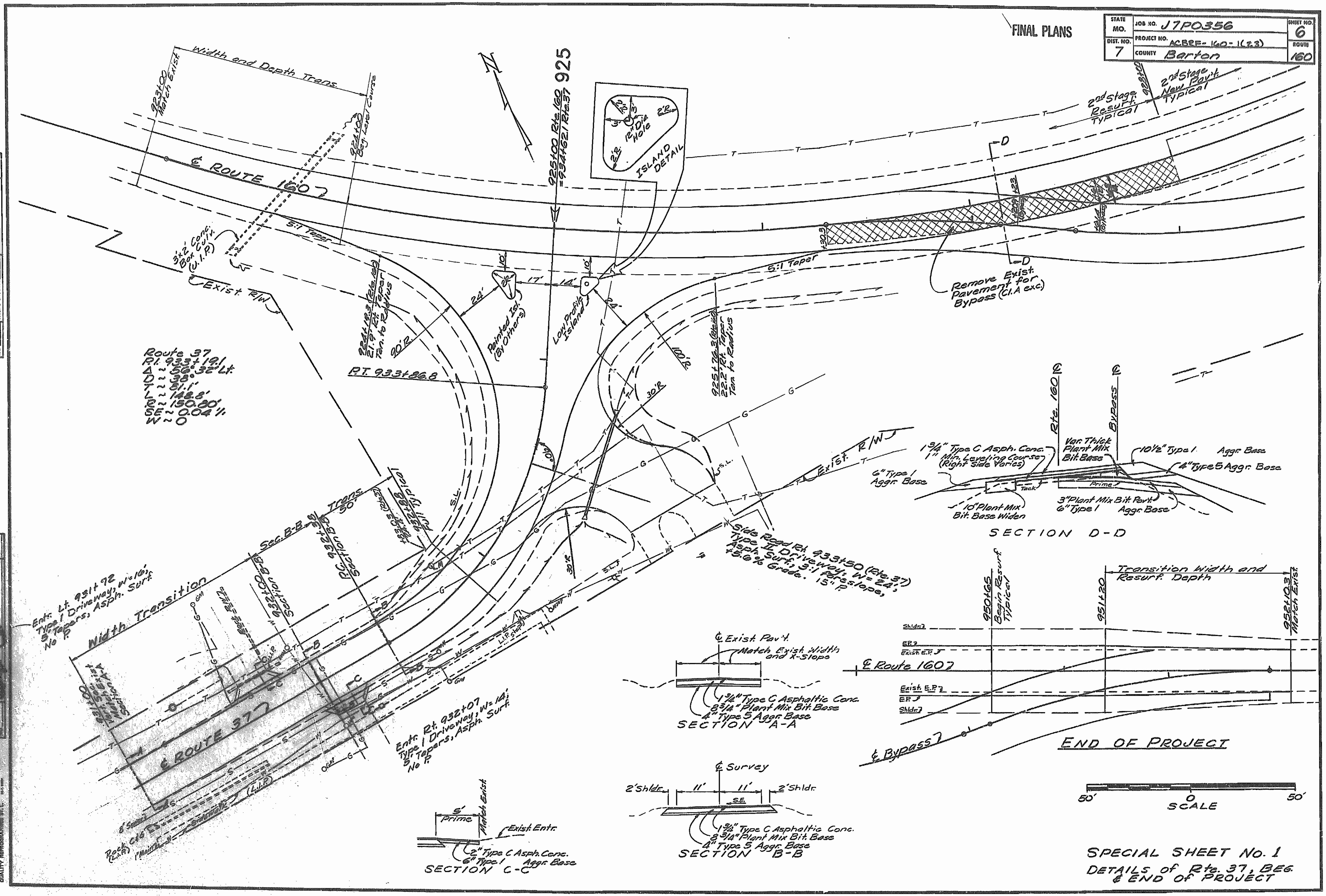
STATE	JOB NO. J7P0356	SHEET NO.
MO	PROJECT NO. ACBRF-160-1(23)	5
DIST NO 7	COUNTY Barton	ROUTE 160

FINAL PLANS



Referenced Points

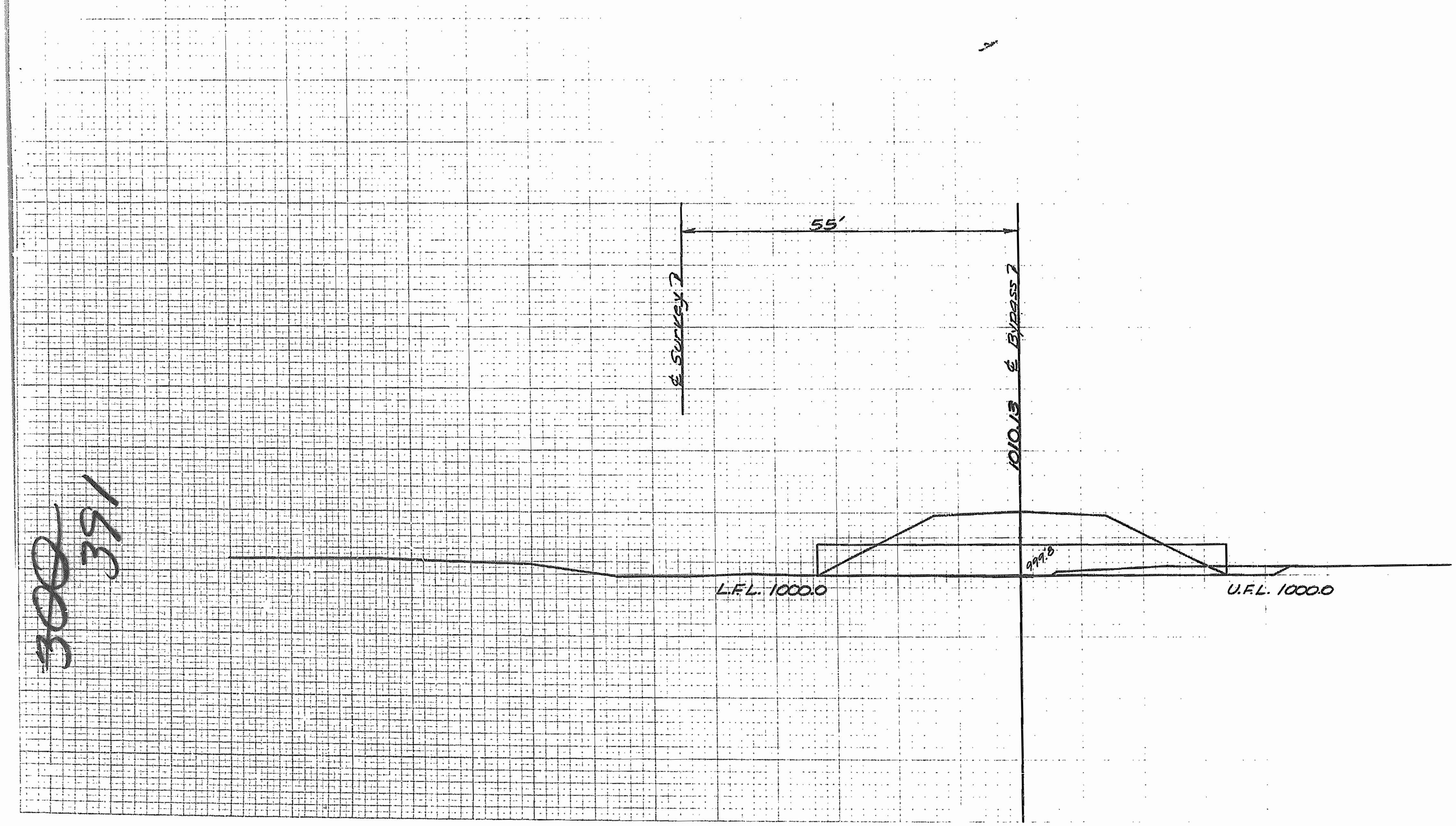
389



FINAL PLANS
STATE MO.
JOB NO. J7P0356
SHEET NO. 6
DIST. NO. 7
PROJECT NO. ACBRF-160-1(23)
COUNTY Barton
ROUTE 160
℄ ROUTE 160
Width and Depth Trans.
923+00 Match Exist.
924+00 Beg. Level Course
3'x2' Conc. Box Culv. (U.I.P.)
Exist. R/W
5:1 Taper
925+00 Rte. 160 = 934+62 / Rte. 37
925
ISLAND DETAIL
2'R.
3'R.
1'R. Dia. Hole
Painted Isl. (By Others)
Low Profile Island
924+18.3 (Rte. 160) 21.9' Lt. Taper Tan. to Radius
925+26.3 (Rte. 160) 22.2' Rt. Taper Tan. to Radius
90'R.
100'R.
30'R.
Route 37
P.I. 933+19.1
Δ ~ 56°32' Lt.
D ~ 38°
T ~ 81.1'
L ~ 148.8'
R ~ 150.80'
SE ~ 0.04'/'
W ~ 0
P.T. 933+86.8
2nd Stage Resurf. Typical
2nd Stage New Pav't. Typical
Remove Exist. Pavement for Bypass (Cl. A exc.)
Exist. R/W
Side Road Rt. 933+50 (Rte. 37) Type II Driveway, W=24', Asph. Surf., 3:1 Foreslope, +5.6% Grade, 15" P.
Sec. B-B
Trans. 50'
P.C. 932+36 Section B-B
932+00 Section B-B
931+00 Match Exist. Section A-A
Width Transition
Entr. Lt. 931+72 Type I Driveway, W=16', 5' Tapers, Asph. Surf. No P.
Entr. Rt. 932+07 Type I Driveway, W=14', 5' Tapers, Asph. Surf. No P.
℄ ROUTE 37
Rock Ck. (L.I.P.)
1 3/4" Type C Asph. Conc.
1" Min. Leveling Course (Right Side Varies)
6" Type 1 Aggr. Base
Var. Thick Plant Mix Bit. Base
10 1/2" Type 1 Aggr. Base
4" Type 5 Aggr. Base
10" Plant Mix Bit. Base Widen
3" Plant Mix Bit. Pav't.
6" Type 1 Aggr. Base
Rte. 160
Bypass
Tack
Prime
SECTION D-D
℄ Exist. Pav't.
Match Exist. Width and X-Slope
1 3/4" Type C Asphaltic Conc.
8 3/4" Plant Mix Bit. Base
4" Type 5 Aggr. Base
SECTION A-A
℄ Survey
2' Shldr.
11'
11'
2' Shldr.
S.E.
1 3/4" Type C Asphaltic Conc.
8 3/4" Plant Mix Bit. Base
4" Type 5 Aggr. Base
SECTION B-B
5'
Prime
Match Exist.
Exist. Entr.
2" Type C Asph. Conc.
6" Type 1 Aggr. Base
SECTION C-C
950+65 Begin Resurf. Typical
951+20
952+03 Match Exist.
Transition Width and Resurf. Depth
Shldr.
E.P.
Exist. E.P.
℄ Route 160
Exist. E.P.
E.P.
Shldr.
℄ Bypass
END OF PROJECT
50'
0
50'
SCALE
SPECIAL SHEET No. 1
DETAILS of Rte. 37, BEG. & END of PROJECT

MO	Job No. J7P0356	16
7	County Barton	160

FINAL PLANS



938+95 Bypass (55' Rt. 947+52.8 Rte. 160)
60" x 68' C.M.P.
Remove 2nd Stage
Cl. 3 Excavation = 15 C.Y.

938+95

CULVERT SECTION

REVISED MARCH 1, 1994

STATE	JOB NO.	SHEET NO.
MO	J7P0356	69
DIST NO.	PROJECT NO.	ROUTE
7	ACBRF-160-1(23)	160
	COUNTY BARTON	

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

FINAL PLANS

✓	NO.	DESCRIPTION
X	203.00E	EXCAVATION & EMBANKMENT
	203.02C	UNDERGRADING
	203.10B	TABULATED EARTHWORK & SECTION DAT.
X	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
X	203.61	DRIVEWAY TYPE I
X	203.62	DRIVEWAY TYPE II
	203.63	DRIVEWAY TYPE III
	203.64	DRIVEWAY TYPE IV
X	203.65	DRIVEWAY TYPE V
X	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
X	502.00N	CONCRETE PAVEMENT & BASE APPURTENANCES (2 SHEETS)
X	502.05	CONCRETE PAVEMENT & BASE APPURTENANCES, 15 FT. JOINT SPACING (2 SHEETS)
X	502.10F	DOWEL SUPPORTING UNITS
X	504.00A	CONCRETE APPROACH PAVEMENT (2 SHEETS)
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	604.05B	PIPE CULVERT HEADWALLS - TYPE S
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F
	604.26D	DROP INLET - TYPE G
	604.27D	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40E	PIPE COLLARS
	604.70	SLOTTED DRAIN (2 SHEETS)
X	605.10A	CLASS A UNDERDRAINS
X	606.00Z	GUARD RAIL (6 SHEETS)
X	606.22K	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE) (ALSO INCLUDE 606.00)
X	606.23C	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE)(ALSO INCLUDE 606.00)
X	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20D	CONCRETE STEPS
X	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
	609.15C	PAVED DITCHES
	609.40F	DRAIN BASIN, SHLD. PAVE. & FILL SL. AT BR. ENDS (2 SHEETS)
X	609.60C	ROCK DITCH LINER
X	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10K	BARRICADES AND FLASHER SIGNS
	613.00B	PAVEMENT REPAIR
	614.10R	CURB INLETS, GRATES & BEARING PLATES
	614.30D	MANHOLE FRAMES & COVERS
X	615.00A	OFFICE FOR ENGINEER
X	616.10Q	TRAFFIC CONTROL DEVICES (4 SHEETS)(ALSO INCLUDE 903.01)
	617.00Y	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES)(2 SHEETS)
	702.02C	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.21E	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)(FLARED WINGS)(INCL 706.35)
	703.24E	CONCRETE BOX CULVERTS, SKEW DATA (703.30)(INCL 706.35)
	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS) (FLRD WINGS)(INCL 706.35)
	703.30F	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING (INCL 706.35)
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL 706.35)
	703.50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35)
	703.51G	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35)
	703.52D	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
	703.54E	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL 706.35)
	703.56E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL 706.35)
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS) (INCL 706.35)
	703.71D	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS) (INCL 706.35)
	703.72D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SQUARE) (2 SHEETS)(INCL 706.35)
	703.73D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED) (2 SHEETS)(INCL 706.35)
	703.74D	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
X	706.30E	REINFORCING BAR SUPPORTS
X	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
X	726.30C	CULVERT INSTALLATION METHODS
	731.00S	PRECAST MANHOLES (ALSO INCL 614.30)
	731.10K	PRECAST DROP INLETS (4 SHTS)(ALSO INCL 614.30 & 614.10)

✓	NO.	DESCRIPTION
	732.00L	FLARED END SECTION (2 SHEETS)
X	732.10A	SAFETY SLOPE END SECTIONS (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS)
	901.01U	POLES & APPURTENANCES-45' (3 SHEETS)
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS)(SEE NOTE)
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT METERED)
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT METERED)
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG METERED)
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
	902.00F	SIGNAL HEADS, LENSES AND MOUNTING
	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
	902.30H	CONCRETE BASES
	902.40J	TUBULAR STEEL POST
	902.50G	DETECTORS
	902.60F	SPAN WIRE DETAILS-STEEL POST
	902.70D	SPAN WIRE DETAILS-WOOD POLE
	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
X	903.01C	ALPHABETS (2 SHEETS)
X	903.02Y	H'GHWAY SIGNING (7 SHEETS)
	903.03AP	SIGN MOUNTING DETAILS (5 SHEETS)
	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09D	LIGHTING SUPPORT BRACKET
	903.10T	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS)(INCL 903.03)
	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS) (INCL 903.03)
	903.60S	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS)(INCL 903.03)

NOTES:
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

535 440

D-2

SIDEWALK IMPROVEMENTS PROJECT, PHASE I

TAP-9900(745)

FOR THE CITY OF GOLDEN CITY, MISSOURI

2015

PROJECT LOCATION MAP

DRAWING INDEX

DRAWING TITLE	DWG. NO.
COVER SHEET	1
SUMMARY OF QUANTITIES	2A-2B
RIGHT-OF-WAY PLAN	RoW
EXISTING SIDEWALK REMOVAL PLAN	3
SIDEWALK PLAN	4-5
TEMPORARY EROSION CONTROL PLAN	6
TRAFFIC CONTROL PLAN	7
DETAILS	8-9

OWNER:

CITY OF GOLDEN CITY, MISSOURI
511 MAIN STREET, P.O. BOX 127
GOLDEN CITY, MO 64748
CONTACT: WALT NIMS, MAYOR
BARBARA CHAPPELL, CITY CLERK
PH: (417) 537-4351

APPROVED BY THE CITY OF GOLDEN CITY, MISSOURI

Walt Nims — 12/22/15

MAYOR WALT NIMS — DATE

CONTACTS:

WATER, SEWER DEPT.	417-537-4351
GAS - MISSOURI GAS ENERGY	800-446-7409
TELEPHONE/CABLE - CENTURYLINK	800-201-4099

CALL OR CLICK 3 DAYS BEFORE YOU DIG! 1-800-DIG-RITE or 811 MISSOURI ONE CALL SYSTEM www.mo1call.com

CAUTION: INFORMATION ON THIS DRAWING CONCERNING TYPE & LOCATION OF UNDERGROUND & OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE & LOCATION OF UNDERGROUND & OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

PREPARED BY:

ANDERSON ENGINEERING, INC.

Engineering, Surveying, Laboratories, Drilling

ANDERSON ENGINEERING, INC
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING

STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
PROFESSIONAL ENGINEER

DRAWING INFO.
FIELD BY: BSB
DRAWN BY: JAE
CHECK BY:
DATE:
FIELD BOOK:
JOB NUMBER:

REVISIONS

NO.	DESCRIPTION	BY	DATE

COVER SHEET
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER 1 OF 9

GENERAL NOTES:

1. ALL WORK, MATERIALS, AND DETAILS SHALL BE IN ACCORDANCE WITH THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE STANDARD SPECIFICATIONS FOR THE APPLICABLE CITY AND/OR COUNTY. CONTRACTORS SHALL OBTAIN A COPY OF THESE STANDARDS TO ENSURE COMPLIANCE.
2. EXISTING UTILITIES AND UNDERGROUND INSTALLATIONS HAVE BEEN LOCATED TO THE GREATEST EXTENT PRACTICAL THROUGH REVIEW OF CONSTRUCTION PLANS AND SURFACE OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-522-6543.
3. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
4. NO WORK SHALL COMMENCE UNTIL ALL NECESSARY PERMITS ARE OBTAINED BY THE OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINE AND GRADE STAKES.
6. CONTRACTOR SHALL REMOVE, PRESERVE, AND REPLACE ALL SIGNS, MAIL BOXES, FENCES, METAL FLAG POLE BASES AND THE LIKE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
7. ALL TRAFFIC WAYS INCLUDING DRIVEWAYS, ALLEYWAYS, ETC., SHALL REMAIN ACCESSIBLE TO RESIDENTIAL AND EMERGENCY VEHICLES DURING PROJECT DURATION.
8. ALL CONSTRUCTION AND EXCAVATION ACTIVITIES SHALL BE CONFINED TO EASEMENTS, ROAD RIGHT-OF-WAY, AND/OR WORK AREA LIMITS AS SHOWN ON DRAWINGS.
9. CONTRACTOR SHALL RAISE OR LOWER ALL AFFECTED MANHOLE RIMS AND VALVE BOXES IN THE WORK AREA TO MATCH PROPOSED GRADE.
10. ALL AREAS DISTURBED BY CONSTRUCTION ARE FIRST TO BE FINE GRADED AND THEN FOLLOWED BY SEED AND STRAW MULCH, UNLESS OTHERWISE NOTED, OVER, MIN. 4" TOPSOIL STOCKPILED FROM SITE OR HAULED IN AS REQUIRED.
11. PROVIDE POSITIVE DRAINAGE FROM ALL IMPROVED AREAS, SO THAT RUNOFF DRAINS TO DRAIN WAYS.
12. ANY DAMAGE TO EXISTING STRUCTURES, VEGETATION, OR IMPROVEMENTS RESULTING FROM NEW CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. ALL EXCAVATION, FILL, OR DITCH GRADING ASSOCIATED WITH CONSTRUCTION OF PROPOSED SIDEWALK, INCLUDING REMOVAL AND DISPOSAL OF ALL WASTE MATERIALS, WILL BE CONSIDERED INCIDENTAL TO THE PROJECT. ALL EXCESS DIRT MATERIAL TO BE HAULED TO A LOCATION DESIGNATED BY THE CITY. ALL CONCRETE AND ASPHALT DEBRIS TO BE DISPOSED OF BY THE CONTRACTOR.
14. ALL SIDEWALKS AND ADA RAMPS SHALL BE IN ACCORDANCE WITH ADA REGULATIONS.
15. CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR. ALL EROSION CONTROL DEVICES SHALL BE INCIDENTAL TO CONSTRUCTION. (SEE DETAIL 7.6)
16. ALL TRENCHES, WHICH LIE UNDER PROPOSED PAVEMENT, OR LIE WITHIN TWO FEET OF BACK OF CURB, SHALL BE BACKFILLED TO PAVEMENT SUB-GRADE WITH COMPACTED GRANULAR BACK FILL.
17. TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR WHEN PIPES ARE LAID IN FILL.
18. CONTRACTOR SHALL LOCATE ALL SUMP/HOUSE DRAIN LOCATIONS ALONG PROPOSED SIDEWALK ALIGNMENT AND INSTALL SIDEWALK DRAINS AS NECESSARY. ALL SIDEWALK DRAINS SHALL BE INCIDENTAL TO CONSTRUCTION. (SEE DETAIL)
19. ANY REMOVALS NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS, BUT NOT QUANTIFIED IN THE REMOVAL OF IMPROVEMENTS PAY ITEM, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
20. EXCAVATION LIMITS SHALL BE LIMITED TO 1' BEYOND THE EDGE OF THE PROPOSED SIDEWALK ON EACH SIDE. SEEDING AND MULCHING FOR EXCAVATION BEYOND 1' FROM SIDEWALK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

CAUTION:
CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING ELEVATIONS AT INDICATED LOCATIONS. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.

THE DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE.

CONTRACTOR SHALL FIELD-VERIFY ACTUAL DEPTHS AT ALL CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF CONFLICT OCCURS.

UTILITY RELOCATIONS:
KNOWN CONFLICTING UTILITY MAINS SHALL BE RELOCATED BY OTHERS. SERVICE LINES IN CONFLICT SHALL BE RELOCATED DURING CONSTRUCTION. CONTRACTOR SHALL EXCAVATE AND EXPOSE EXISTING SERVICE LINES IN CONFLICT.

UTILITY PROVIDERS SHALL RELOCATE SERVICE LINES AND INSTALL NEW CONNECTIONS.

CONTRACTOR SHALL BACKFILL AND REPLACE PAVEMENT AFTER NEW SERVICE CONNECTIONS ARE COMPLETED.

BASE BID - SIDEWALK IMPROVEMENTS PROJECT, PHASE I, TAP-9900(745)

Item No.	Description	Unit	Quantity
1	MOBILIZATION	LS	1
2	SEEDING & MULCH	AC	0.03
3	REMOVAL OF IMPROVEMENTS	LS	1
4	CONCRETE SIDEWALKS, 4" THICK	SY	452
5	CONCRETE SIDEWALKS/DRIVEWAY ENTRANCES, 8" THICK	SY	69
6	STANDARD 2' 6" CURB & GUTTER	LF	498
7	ADA DETECTABLE WARNING STRIPS	SF	24
8	TYPE 5 AGGREGATE BASE	SY	660
9	TYPE 2 PREFORMED MARKING TAPE, 6" WHITE	LF	85
10	CONCRETE PAVEMENT REPAIR (8" CONC. W/COMP. GRAN. STONE) COMPLETE & IN PLACE	SY	54
11	SIDEWALK RAILING	LF	12
12	14"X23" CLASS III HERCP	LF	96
13	18" CLASS III RCP	LF	235
14	PRECAST CONCRETE DROP INLETS, 4' X 3'	EACH	3
15	CLASS 3 EXCAVATION	CY	130
16	INLET CHECK (SAND BAG SEDIMENT TRAP)	EACH	4
17	TEMPORARY TRAFFIC CONTROL SIGNING	SF	51
18	CHANNELIZERS	EACH	30
19	BARRICADES	EACH	4
20	TYPE I DITCH CHECKS	EACH	2

ALTERNATE 1 - SIDEWALK IMPROVEMENTS PROJECT, PHASE I, TAP-9900(745)

Item No.	Description	Unit	Quantity
A1-1	SEEDING & MULCH	AC	0.07
A1-2	18" CLASS III RCP	LF	41
A1-3	18" CMP	LF	60
A1-4	PRECAST CONCRETE AREA INLETS, 3' X 3'	EACH	3
A1-5	CLASS 3 EXCAVATION	CY	45

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www.mo1call.com

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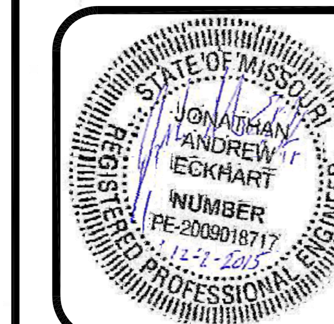
ANDERSON ENGINEERING, INC
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING
218 5TH, P.O. BOX 286 • MONETT, MISSOURI 65708 • PHONE (417) 236-0112
ANDERSON COA# 000062 • ANDREW ECKHART, PE# 2009018717



REVISIONS				DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE	FIELD BY:	
1	REVISED PER MODOT REVIEW		1/27/2016	DRAWN BY:	BSB
				CHECK BY:	JAE
				DATE:	
				FIELD BOOK:	
				JOB NUMBER:	

SUMMARY OF QUANTITIES
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

MOBILIZATION
LUMP SUM = 1

SEEDING & MULCH
AC = 0.03

REMOVAL OF IMPROVEMENTS
LUMP SUM = 1

CONCRETE SIDEWALKS, 4" THICK

SHEET NUMBER	LOCATION	SY	REMARKS
4	MAIN STREET 1+20 - 1+46	21.7	8' SIDEWALK
4	MAIN STREET 1+46 - 1+61	15.8	10' SIDEWALK
	MAIN STREET 1+78 - 1+94	16.9	10' SIDEWALK
	MAIN STREET 2+14 - 2+66	54.9	10' SIDEWALK
	MAIN STREET 2+78 - 4+04	133.0	10' SIDEWALK
4, 5	MAIN STREET 4+48 - 5+72	130.9	10' SIDEWALK
	MAIN STREET 5+87 - 6+62	79.2	10' SIDEWALK
	TOTAL	**452.3**	
	USE	**452**	

CONCRETE SIDEWALKS/DRIVEWAY ENTRANCES, 8" THICK

SHEET NUMBER	LOCATION	SY	REMARKS
4	MAIN STREET 1+61 - 1+78	22.7	DRIVEWAY
4	MAIN STREET 1+94 - 2+14	26.7	DRIVEWAY
4	MAIN STREET 2+66-2+78	16.0	DRIVEWAY
5	MAIN STREET 5+72 - 5+87	20.0	DRIVEWAY
	TOTAL	**85.3**	
	USE	**85**	

STANDARD 2.5' CURB & GUTTER

SHEET NUMBER	LOCATION	LF	REMARKS
4, 5	MAIN STREET 1+20 - 4+04	284	
5	MAIN STREET 4+48 - 6+62	214	
	TOTAL	**498.0**	
	USE	**498**	

ADA DETECTABLE WARNING STRIPS

SHEET NUMBER	LOCATION	SF	REMARKS
4	MAIN STREET AT HICKS AVE.	24	EACH SIDE OF STREET
	TOTAL	**24.0**	
	USE	**24**	

TYPE 5 AGGREGATE BASE

SHEET NUMBER	LOCATION	SY	REMARKS
	CONCRETE SIDEWALKS, 4" THICK	452.3	
	CONCRETE SIDEWALKS/DRIVEWAY ENTRANCES, 8" THICK	85.3	
	STANDARD 2' 6" CURB & GUTTER	138.3	
	TOTAL	**676.0**	
	USE	**676**	

TYPE 2 PREFORMED MARKING TAPE, 6" WHITE

SHEET NUMBER	LOCATION	6" SOLID WHITE	REMARKS
4	HICKS AVE.	85	
	TOTAL	**85**	
	USE	**85**	

CONCRETE PAVEMENT REPAIR (8" THK. CONC. W/COMP. GRAN. STONE), COMPLETE & IN PLACE

SHEET NUMBER	LOCATION	SY	REMARKS
5	HICKS AVENUE/STORM CROSSING	29.3	BETWEEN CURB INLETS
6	HICKS AVENUE/STORM CROSSING	14.7	BETWEEN AREA INLETS
5	MAIN STREET/GUTTER, APPROX. STA. 6+50	10.0	
	TOTAL	**54.0**	
	USE	**54**	

SIDEWALK RAILING

SHEET NUMBER	LOCATION	LF	REMARKS
4	MAIN STREET	12.0	RAMP, STA. 2+99
	TOTAL	**12.0**	
	USE	**12**	

STORM SEWER PIPE / CLASS 3 EXCAVATION

SHEET	LOCATION	14"X23" HERCP	18" RCP	18" CMP	LF OF				WIDTH	DEPTH	CY
	MAIN STREET STA. 1+22 - 2+20	96			96				3.5	2.50	31.11
	MAIN STREET STA. 2+20 - 4+60		235	0	235				3.0	3.50	91.39
	TOTAL	**96**	**235**	**0**						TOTAL	**122.50**
	USE	**96**	**235**	**0**						USE	**123**

PRECAST CONCRETE DROP INLETS, 4' X 3'/AREA INLETS 3' X 3' / CLASS 3 EXCAVATION

SHEET NUMBER	LOCATION	4' X 3' DROP INLET	3' X 3' AREA INLET	REMARKS	LENGTH	WIDTH	DEPTH	CY
	MAIN STREET	X			5	4	2.80	2.07
	MAIN STREET	X			5	4	3.54	2.62
	MAIN STREET	X			5	4	4.00	2.96
	TOTAL	**3**	**0**				TOTAL	**7.66**
	USE	**3**	**0**				USE	**8**

INLET CHECK (SAND BAG SEDIMENT TRAP)

SHEET NUMBER	LOCATION	EA.	REMARKS
	MAIN STREET	4.0	
	TOTAL	**4.0**	
	USE	**4**	

TEMPORARY TRAFFIC CONTROL SIGNING

SHEET NUMBER	LOCATION	SF	REMARKS
	MAIN STREET	50.5	
	TOTAL	**50.5**	
	USE	**51**	

CHANNELIZERS

SHEET NUMBER	LOCATION	EA	REMARKS
	MAIN STREET	30.0	
	TOTAL	**30.0**	
	USE	**30**	

BARRICADES

SHEET NUMBER	LOCATION	EA	REMARKS
	MAIN STREET	4.0	
	TOTAL	**4.0**	
	USE	**4**	

TYPE I DITCH CHECKS

SHEET NUMBER	LOCATION	EA	REMARKS
	MAIN STREET	2.0	
	TOTAL	**2.0**	
	USE	**2**	

ALTERNATE 1 - HICKS AVENUE STORM IMPROVEMENTS (STA. 0+00 - STA. 1+08.63)

SEEDING & MULCH
AC = 0.07

STORM SEWER PIPE / CLASS 3 EXCAVATION

SHEET NUMBER	LOCATION	14"X23" HERCP	18" RCP	18" CMP	LF OF TRENCH				WIDTH	DEPTH	CY
	HICKS AVENUE		41	60	101				3.0	3.50	39.28
	TOTAL	**0**	**41**	**60**						TOTAL	**39.28**
	USE	**0**	**41**	**60**						USE	**39**

PRECAST CONCRETE DROP INLETS, 4' X 3'/AREA INLETS 3' X 3' / CLASS 3 EXCAVATION

SHEET NUMBER	LOCATION	4' X 3' DROP INLET	3' X 3' AREA INLET	REMARKS	LENGTH	WIDTH	DEPTH	CY
	HICKS AVENUE		X		4	4	3.73	2.21
	HICKS AVENUE		X		4	4	2.87	1.70
	HICKS AVENUE		X		4	4	2.40	1.42
	TOTAL	**0**	**3**				TOTAL	**5.33**
	USE	**0**	**3**				USE	**5**

⚠ CALL OR CLICK 3 DAYS BEFORE YOU DIG!
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MISSOURI ONE CALL SYSTEM
www.mo1call.com

CAUTION:
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ANDERSON ENGINEERING, INC
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING
218 5TH, P.O. BOX 286 • MONETT, MISSOURI 65708 • PHONE (417) 236-0112
ANDERSON COA# 000062 • ANDREW ECKHART, PE# 2009018717

STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
12-2-2015
REGISTERED PROFESSIONAL ENGINEER

NO.	REVISIONS DESCRIPTION	BY	DATE	DRAWING INFO.	
⚠1	REVISED PER MODOT REVIEW		1/18/2016	FIELD BY:	
				DRAWN BY:	BSB
				CHECK BY:	JAE
				DATE:	
				FIELD BOOK:	
				JOB NUMBER:	

SUMMARY OF QUANTITIES
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER
2B
OF 9

1 THE CITY OF GOLDEN CITY
DB 2014, PG 1016
NEW R.O.W. 0.02± AC.
BEGINNING ACREAGE 0.48± AC.
REMAINING ACREAGE 0.46± AC.

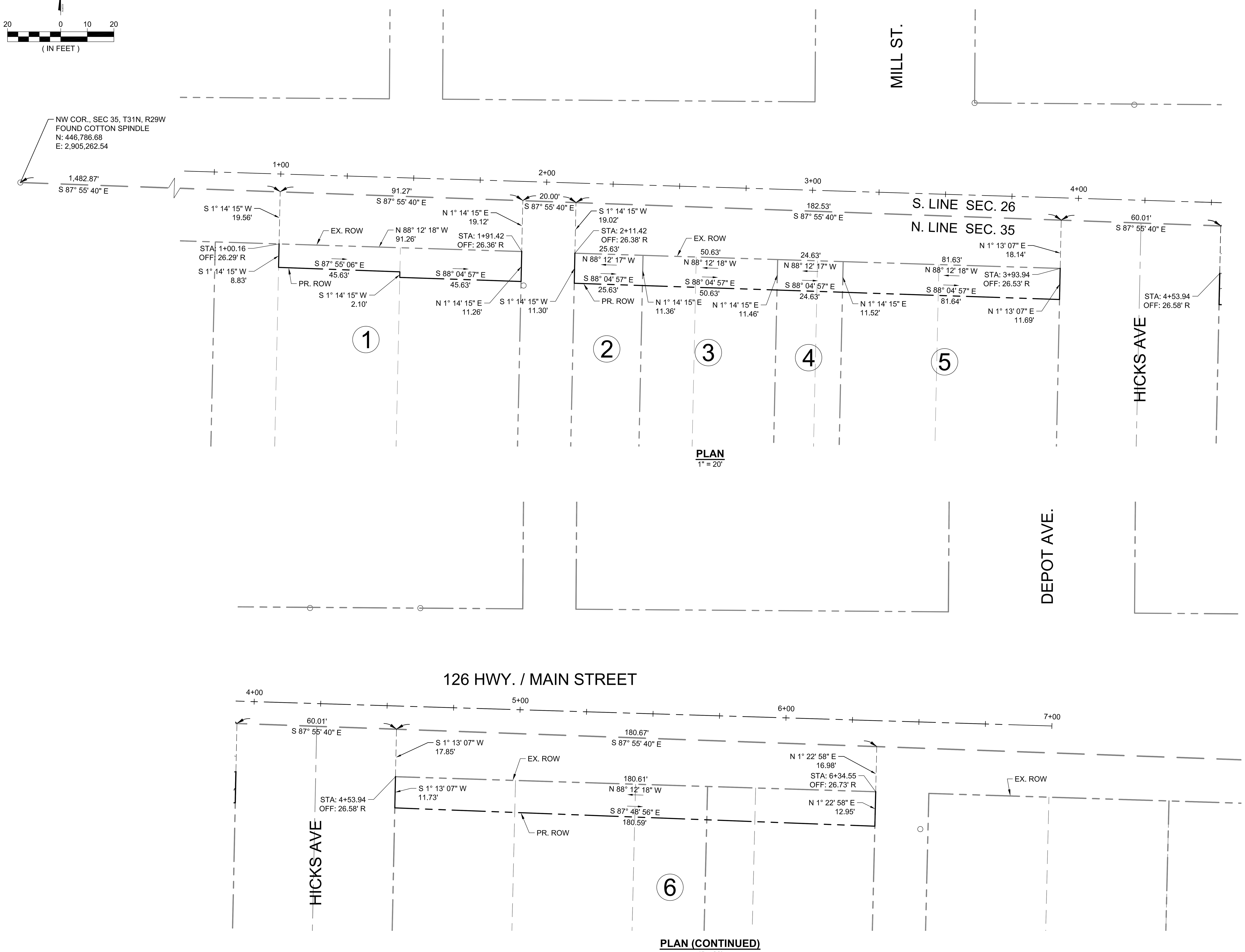
2 CAROL ELDRED
DB 2014, PG 372
NEW R.O.W. 0.01± AC.
BEGINNING ACREAGE 0.11± AC.
REMAINING ACREAGE 0.10± AC.

3 JOHN DIVINE
DB 457, PG 80
NEW R.O.W. 0.01± AC.
BEGINNING ACREAGE 0.21± AC.
REMAINING ACREAGE 0.20± AC.

4 RAYBURN & JOYCE MEIN
DB 406, PG 354
NEW R.O.W. 0.01± AC.
BEGINNING ACREAGE 0.10± AC.
REMAINING ACREAGE 0.09± AC.

5 REEDS L.L.C.
DB 2012, PG 113
NEW R.O.W. 0.02± AC.
BEGINNING ACREAGE 0.34± AC.
REMAINING ACREAGE 0.32± AC.

6 BOARD OF TRUSTEES OF BARTON COUNTY MEMORIAL HOSPITAL
DB 2006, PG 1163
NEW R.O.W. 0.05± AC.
BEGINNING ACREAGE 0.45± AC.
REMAINING ACREAGE 0.40± AC.



ANDERSON ENGINEERING, INC
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218 5TH P.O. BOX 295 • MONETT, MISSOURI 65708 • PHONE (417) 235-4112
ANDERSON COA# 000062 • ANDREW ECKHART, PE# 2009018717

STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
REGISTERED PROFESSIONAL ENGINEER

REVISIONS				DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE		
1	PER MODOT COMMENTS	CAW	01/15/2016	FIELD BY:	BSB
2	CHANGE OF PROPERTY OWNERSHIP	CAW	03/16/2016	DRAWN BY:	JAE
				CHECK BY:	
				DATE:	
				FIELD BOOK:	
				JOB NUMBER:	

RIGHT-OF-WAY PLAN
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER
RoW
OF 9

(IN FEET)

40 0 10 20

SIDEWALK LEGEND:

= EXISTING SIDEWALK TO BE REMOVED

CALL OR CLICK 3 DAYS BEFORE YOU DIG!
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www.mo1call.com

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GENERAL NOTES:

REMOVAL OF IMPROVEMENTS, CUTTING EXISTING CONCRETE:

1.) PERFORM CONCRETE CUTTING WITH CONCRETE CUTTING WHEELS AND HAND CHISELS. DO NOT DAMAGE CONCRETE INTENDED TO REMAIN.

2.) EXTENT OF CUTTING OF STRUCTURAL CONCRETE SHALL BE AS INDICATED ON DRAWINGS OR AS REVIEWED BY THE ENGINEER. REPLACE CONCRETE DEMOLISHED IN EXCESS OF AMOUNTS INDICATED.

3.) PRIOR TO CUTTING OR REMOVING EXISTING CONCRETE, DETERMINE LOCATIONS OF HIDDEN UTILITIES OR OTHER EXISTING IMPROVEMENTS AND PROVIDE NECESSARY MEASURES TO PROTECT THEM FROM DAMAGE. CONTRACTOR SHALL POT HOLE AT HIS OR HER EXPENSE TO DETERMINE THE EXACT LOCATIONS OF HIDDEN UTILITIES.

4.) POLES AND POLE BASES FOR LIGHTS, ELECTRIC, TELEPHONE AND SIGNALS PLACED IN EXISTING CONCRETE WITHIN THE PROJECT LIMITS SHALL REMAIN IN EXISTING CONCRETE. CUTTING OF EXISTING CONCRETE AROUND POLES AND BASES SHALL BE 6" FROM EDGE OF BASE OR POLE OR AS SPECIFIED BY THE ENGINEER.

5.) DRAWINGS MAY NOT INDICATE IN DETAIL ALL REMOVAL OF IMPROVEMENTS WORK TO BE PERFORMED. EXAMINE EXISTING CONDITIONS TO DETERMINE THE FULL EXTENT OF REQUIRED DEMOLITION. REPAIR DAMAGE TO EXISTING IMPROVEMENTS OR DAMAGE DUE TO EXCESSIVE DEMOLITION. PROVIDE ALL MEASURES TO AVOID EXCESSIVE DAMAGE.

ANDERSON ENGINEERING, INC
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STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
12-2-2015
REGISTERED PROFESSIONAL ENGINEER

REVISIONS				DRAWING INFO.	
NO.	DESCRIPTION	BY	DATE	FIELD BY:	
1	REVISED PER MODOT REVIEW		1/18/2016	DRAWN BY:	BSB
				CHECK BY:	JAE
				DATE:	
				FIELD BOOK:	
				JOB NUMBER:	

EXISTING SIDEWALK REMOVAL PLAN

SIDEWALK ENHANCEMENT
TAP-9900(745)

SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER 3 OF 9

20 0 10 20
(IN FEET)
1 inch = 20 ft.

SIDEWALK LEGEND:

= PROPOSED SIDEWALK

BENCH MARK
CHISELED "SQ." IN NW CORNER CONC. PARKING LOT OF BANK AND PUBLIC SIDEWALK, TOP OF SOUTH SIDE SIDEWALK 350'± EAST AND 35'± SOUTH OF CL HICKS AVE. AND HWY. 126.
ELEVATION = 1065.36'

CP #1/SET PK N: 446746.08 E: 2907255.94
ELEV. = 1064.68'
CP #2/SET PK N: 446754.81 E: 2906845.01
ELEV. = 1061.83'

GENERAL NOTES:

1. SAW CUT AND REMOVE ASPHALT WHERE SHOWN AND INSTALL NEW CURB AND SIDEWALK PER DETAIL 7.3.

2. POLES AND POLE BASES FOR LIGHTS, ELECTRIC, TELEPHONE AND SIGNALS PLACED IN EXISTING CONCRETE WITHIN THE PROJECT LIMITS SHALL REMAIN IN EXISTING CONCRETE. CUTTING OF EXISTING CONCRETE AROUND POLES AND BASES SHALL BE 6" FROM EDGE OF BASE OR POLE OR AS SPECIFIED BY THE ENGINEER.

3. SAW CUT EXISTING PAVEMENT 2.0' IN FRONT OF EXISTING CURB FACE.

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1-800-DIG-RITE or 811
www.mo1call.com

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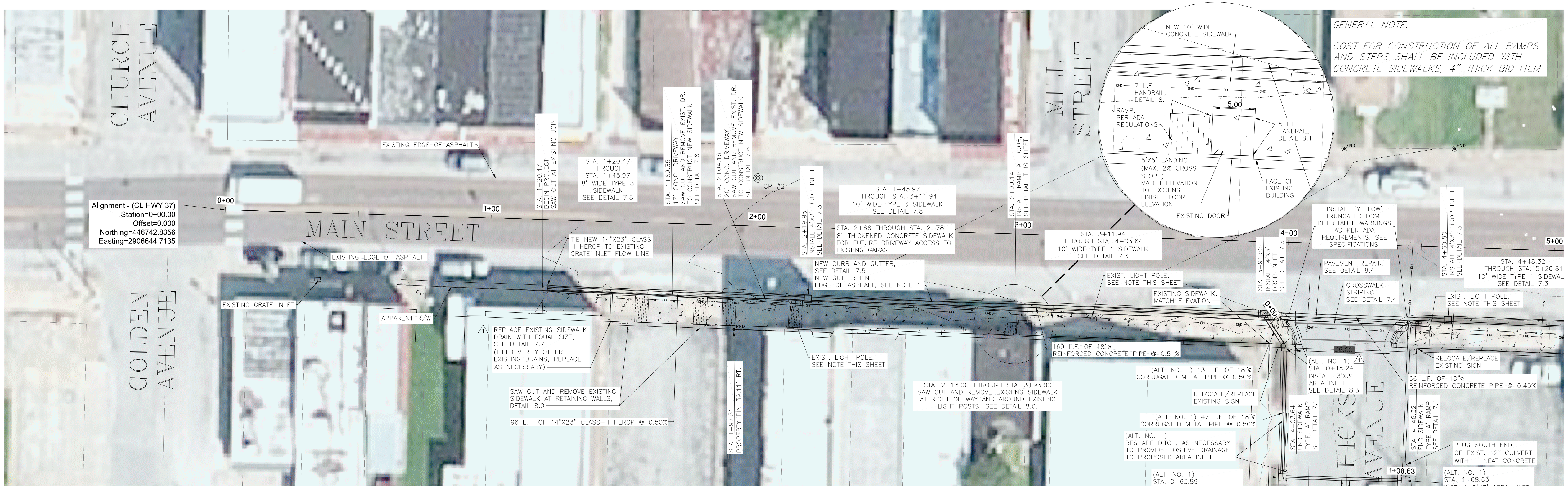
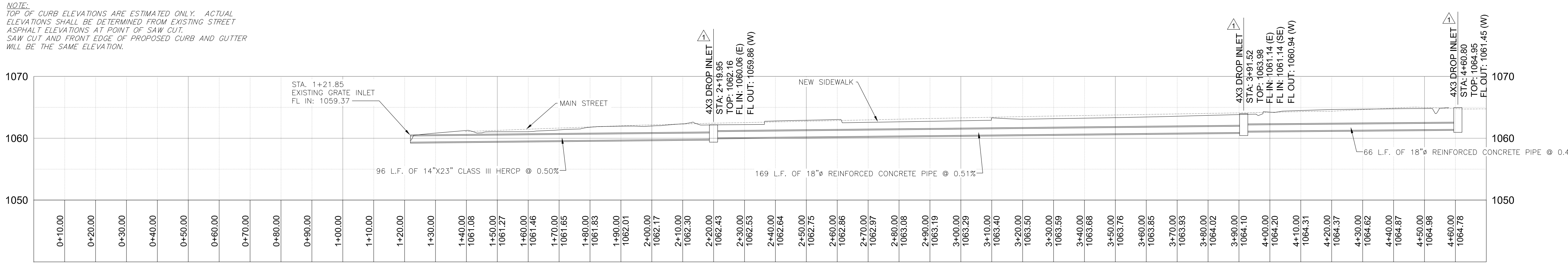
CONVENTIONAL SYMBOLS
(USED IN PLANS)

100 EXISTING CONTOUR (MAJOR)
100 EXISTING CONTOUR (MINOR)
EXISTING CENTERLINE
EXISTING BUILDING
EXISTING EDGE OF ROADWAY
EXISTING FENCE
EXISTING GUARDRAIL
EDGE OF SURFACE WATER
SECTION LINE
EXISTING RIGHT-OF-WAY
EXISTING PROPERTY LINE
EXISTING EASEMENT
EXISTING DRAINAGE
EXISTING DITCH
EXISTING GAS LINE
EXISTING WATER LINE
EXISTING SANITARY SEWER
EXISTING UNDERGROUND ELECTRIC
EXISTING OVERHEAD ELECTRIC
EXISTING UNDERGROUND TELEPHONE
EXISTING OVERHEAD TELEPHONE
EXISTING CURB INLET
EXISTING DROP INLET
EXISTING GAS METER
EXISTING WATER METER
EXISTING WATER VALVE
EXISTING FIRE HYDRANT
EXISTING SANITARY MANHOLE
EXISTING POWER POLE
EXISTING LIGHT POLE
EXISTING GUY WIRE ANCHOR
EXISTING TELEPHONE PEDESTAL
EXISTING SIGN
EXISTING TREE
EXISTING MONITORING WELL
EXISTING MAILBOX
EXISTING BENCHMARK



GENERAL NOTE:
COST FOR CONSTRUCTION OF ALL RAMPS AND STEPS SHALL BE INCLUDED WITH CONCRETE SIDEWALKS, 4" THICK BID ITEM

NOTE:
TOP OF CURB ELEVATIONS ARE ESTIMATED ONLY. ACTUAL ELEVATIONS SHALL BE DETERMINED FROM EXISTING STREET ASPHALT ELEVATIONS AT POINT OF SAW CUT. SAW CUT AND FRONT EDGE OF PROPOSED CURB AND GUTTER WILL BE THE SAME ELEVATION.



MAIN STREET STORM WATER

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ANDERSON.COM 000062 • ANDREW ECKHART, PE# 2009018717

STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
REGISTERED PROFESSIONAL ENGINEER

REVISIONS				
NO.	DESCRIPTION	BY	DATE	
1	REVISED PER MODOT REVIEW		1/18/2016	

DRAWING INFO.	
FIELD BY:	BSB
DRAWN BY:	JAE
CHECK BY:	
DATE:	
FIELD BOOK:	
JOB NUMBER:	

SIDEWALK PLAN
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER
4
OF 9

SIDEWALK LEGEND:

= PROPOSED SIDEWALK

BENCH MARK
CHISELED "SQ." IN NW CORNER CONC. PARKING LOT OF BANK AND PUBLIC SIDEWALK, TOP OF SOUTH SIDE SIDEWALK 350'± EAST AND 35'± SOUTH OF CL HICKS AVE. AND HWY. 126.
ELEVATION = 1065.36'

CP #1/SET PK N: 446746.08 E: 2907255.94
ELEV. = 1064.68'

CP #2/SET PK N: 446754.81 E: 2906845.01
ELEV. = 1061.83'

20 0 10 20
(IN FEET)
1 inch = 20 ft.

GENERAL NOTES:

1. SAW CUT AND REMOVE ASPHALT WHERE SHOWN AND INSTALL NEW CURB AND SIDEWALK PER DETAIL 7.3.

2. POLES AND POLE BASES FOR LIGHTS, ELECTRIC, TELEPHONE AND SIGNALS PLACED IN EXISTING CONCRETE WITHIN THE PROJECT LIMITS SHALL REMAIN IN EXISTING CONCRETE. CUTTING OF EXISTING CONCRETE AROUND POLES AND BASES SHALL BE 6" FROM EDGE OF BASE OR POLE OR AS SPECIFIED BY THE ENGINEER.

3. SAW CUT EXISTING PAVEMENT 2.0' IN FRONT OF EXISTING CURB FACE.

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www.mocall.com

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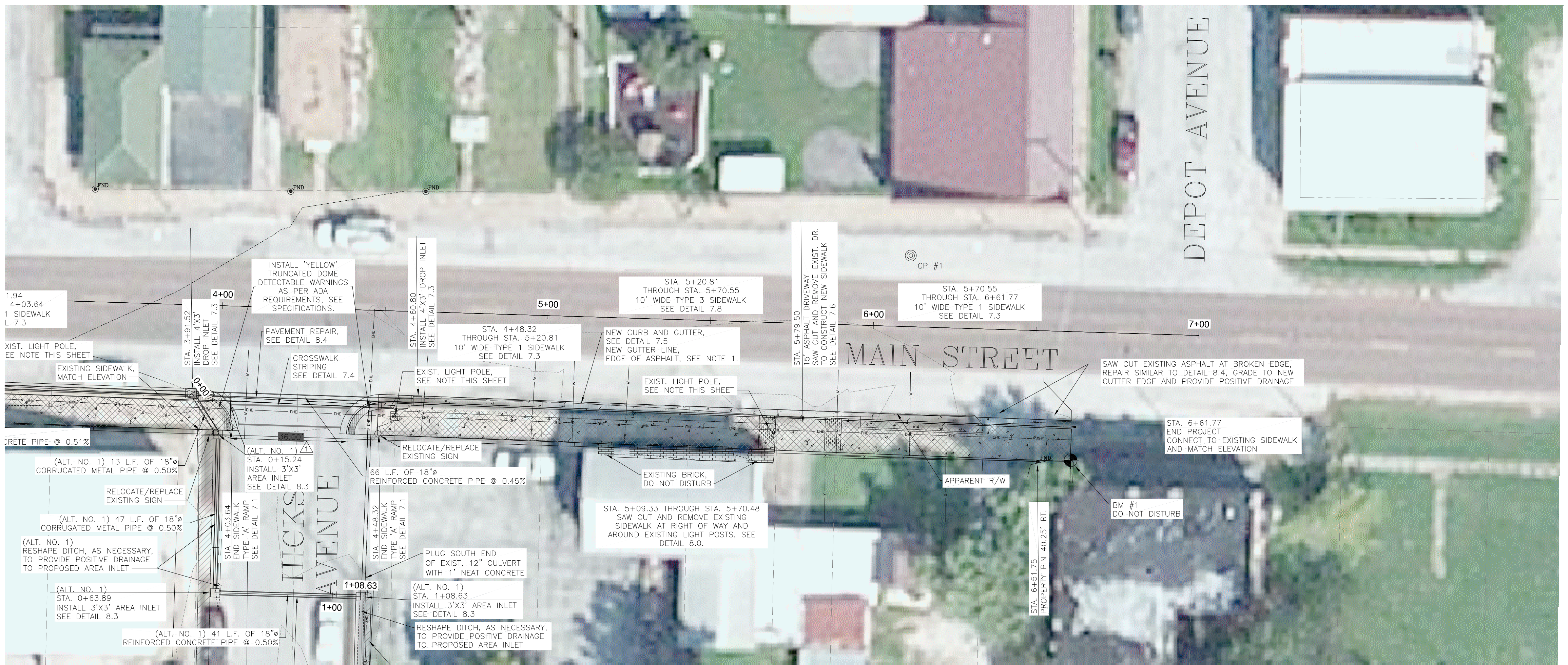

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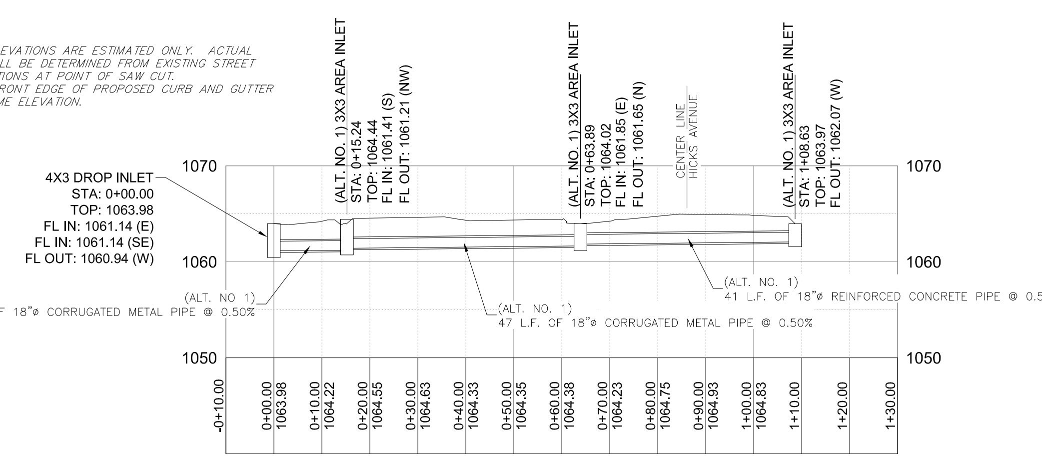

HICKS AVENUE STORM WATER

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ANDERSON COA# 000062 • ANDREW ECKHART, PE# 2009018717

STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
12-2-2015
REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	BY	DATE
1	REVISED PER MODOT REVIEW		1/18/2016

DRAWING INFO.

FIELD BY:	
DRAWN BY:	BSB
CHECK BY:	JAE
DATE:	
FIELD BOOK:	
JOB NUMBER:	

SIDEWALK PLAN
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER
5
OF 9

1 CALL OR CLICK 3 DAYS BEFORE YOU DIG!
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40 0 10 20
(IN FEET)

1 **QUANTITIES:**
BASE BID - 4 EACH OF INLET CHECK (SANDBAG SEDIMENT TRAPS)
2 EACH OF TYPE I DITCH CHECKS

(NOTE: CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.)

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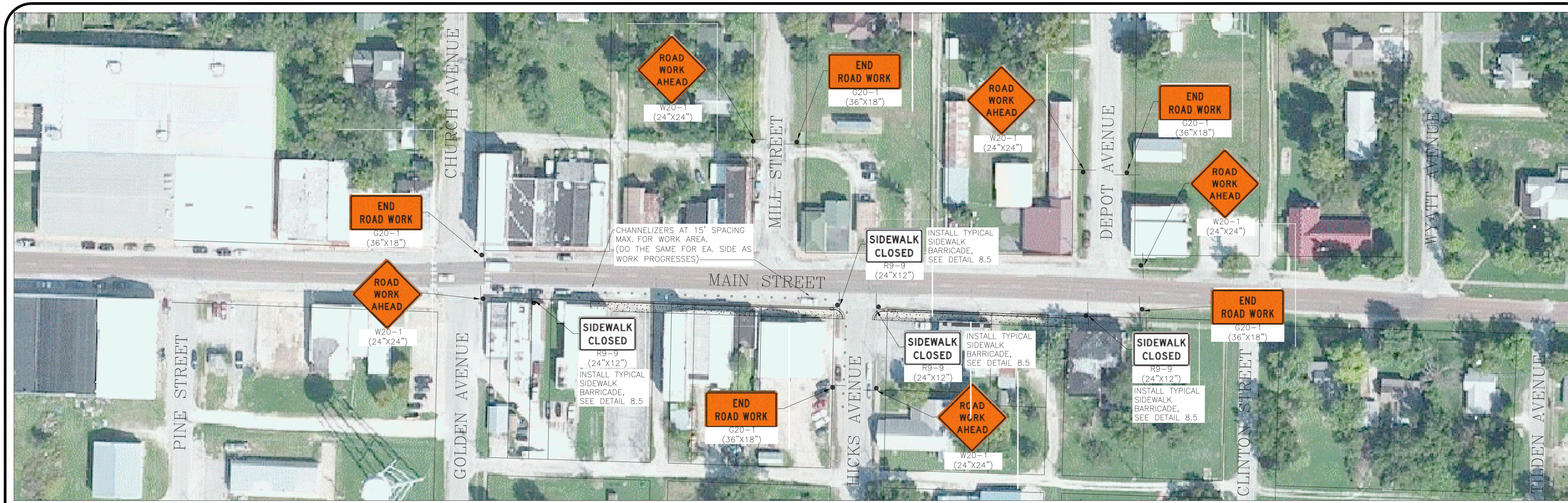
STATE OF MISSOURI
JONATHAN ANDREW ECKHART
NUMBER PE-2009018717
12-2-2015
REGISTERED PROFESSIONAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	REVISED PER MODOT REVIEW		1/27/2016

DRAWING INFO.	
FIELD BY:	
DRAWN BY:	BSB
CHECK BY:	JAE
DATE:	
FIELD BOOK:	
JOB NUMBER:	

TEMPORARY EROSION CONTROL PLAN
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER 6 OF 9



616.8.1 (TA-1) Work Beyond the Shoulder on Divided and Undivided Highways- MT

SPEED	SIGN SPACING (ft.) Undivided (S)	SIGN SPACING (ft.) Divided (S)	TAPER LENGTH (ft.) Shoulder¹ (T1)	TAPER LENGTH (ft.) Lane² (T2)	OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.) Tapers	CHANNELIZER SPACING (ft.) Buffer/ Work Areas
0-35	200	200	-	-	-	-	-
40-45	350	500	-	-	-	-	-
50-55	500	1000	-	-	-	-	-
60-70	1000	1000	-	-	-	-	-

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2 Lane taper length based on 12 ft. (standard lane width) offset.

ROADWAY TYPE	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' Portable 7' Post	1 mi.
RURAL DIVIDED	1' Portable 7' Post	2 mi.
RURAL UNDIVIDED	1' Portable 5' Post	3 mi.

If work vehicles or equipment are located on the shoulder, refer to appropriate shoulder work typical applications.

On multi-lane, divided highways, signs advising of shoulder work or the condition of the shoulder should be placed only on the side of the affected shoulder.

If work is being performed in the median, signs may be required for both directions of travel based on the following paragraph.

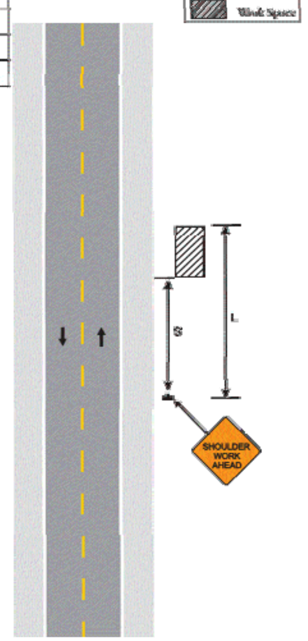
The SHOULDER WORK AHEAD sign may be omitted where the work space is 15 ft. or more from the edge of any shoulder, beyond the ditch line, or behind the curb. Should the roadway not have a shoulder, then 15 ft. or more from the edge of the roadway.

For short duration or mobile operations, signs may be reduced or eliminated if a work vehicle with activated rotating lights or strobe lights is used.

Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.

Other appropriate signs may be used in lieu of the SHOULDER WORK AHEAD sign.

Where sidewalks are impacted, refer to EPG 616.8.28 (TA-28) Sidewalk Detour or Diversion or 616.8.29 (TA-29) Crosswalk Closures and Pedestrian Detours.



TA-1 01/12

616.8.10 (TA-10) Lane Closure on Two-Lane Highways With Edgelines Using Flaggers - MT

SPEED	SIGN SPACING (ft.) Undivided (S)	SIGN SPACING (ft.) Divided (S)	TAPER LENGTH (ft.) Shoulder¹ (T1)	TAPER LENGTH (ft.) Lane² (T2)	OPTIONAL BUFFER LENGTH (ft.) (B)	CHANNELIZER SPACING (ft.) Tapers	CHANNELIZER SPACING (ft.) Buffer/ Work Areas
0-35	200	-	-	-	250	-	50
40-45	350	-	-	-	360	-	100
50-55	500	-	-	-	495	-	100
60-70	SA - 1000, SB - 1500 and SC - 2000		-	-	730	-	100

1 Shoulder taper length based on 10 ft. (standard shoulder width) offset. 2 Lane taper length based on 12 ft. (standard lane width) offset.

ROADWAY TYPE	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)
URBAN	1' Portable 7' Post	1 mi.
RURAL UNDIVIDED	1' Portable 5' Post	3 mi.

A protective vehicle shall be used while work is in progress. The protective vehicle should be equipped with a TMA and flashing arrow panel and positioned at least 150 ft. in advance of the work space.

If a flashing arrow panel is used, the caution mode shall be displayed.

When a temporary road closure is needed, both directions may be stopped at the same time up to a maximum of 20 minutes.

Where operational conditions warrant, channelizing devices may be eliminated.

For short duration operations, signs and channelizers may be reduced or eliminated. The protective vehicle may be eliminated if adequate sight distance exists and the work vehicle uses activated rotating lights or strobe lights.

Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.

For mobile operations where workers are on foot and move with the operation, channelizers may be reduced or eliminated.

Additional warning signs shall be erected at each intersection with another state highway within the work zone. Upon the discretion of the supervisor, additional warning signs may be erected at other intersections within the work zone.

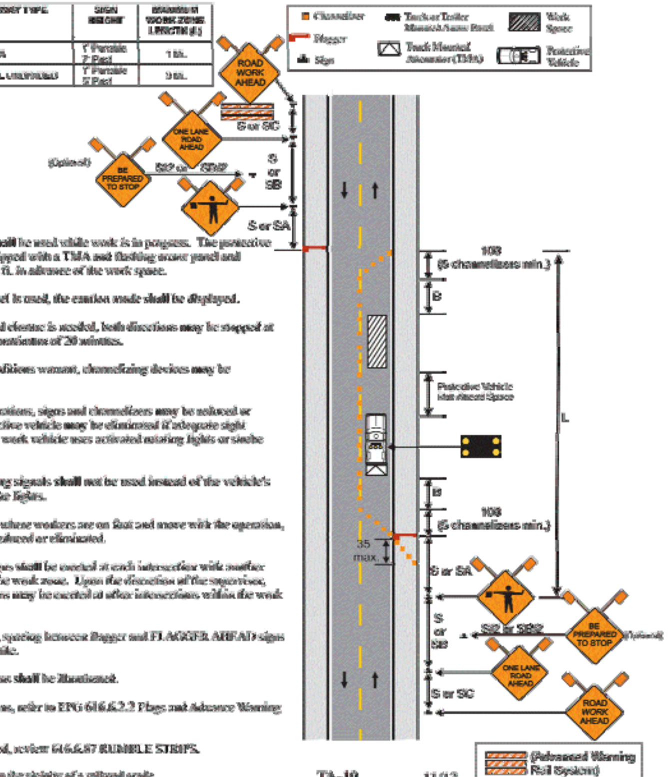
For mobile operations, spacing between flagger and FLAGGER AHEAD signs shall not exceed one mile.

At night, flagger stations shall be illuminated.

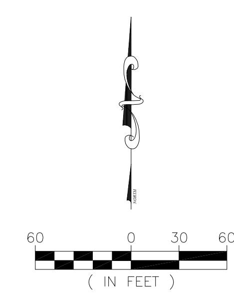
For long-term operations, refer to EPG 616.6.2.2 Flags and Advance Warning Rail System.

If rumble strips are used, review 616.6.87 RUMBLE STRIPS.

For work zones located in the vicinity of a railroad grade crossing, refer to 616.8.76 (TA-76) Work in the Vicinity of a Grade Crossing.



TA-10 11/13



NOTES:
1. TRAFFIC CONTROL SHALL COMPLY WITH THE MUTCD (2009) AND WITH MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2011)
2. TRAFFIC CONTROL MAY BE STAGED WITH CONSTRUCTION AREAS IN ORDER TO REDUCE THE NUMBER OF TRAFFIC CONTROL DEVICES IN-PLACE AT ONE TIME.

SIGN	SIZE (IN.)	AREA (S.F.)	QTY.	TOTAL AREA (S.F.)
W20-1	24X24	4.00	5	20.00
G20-1	36X18	4.50	5	22.50
R9-9	24X12	2.00	4	8.00
TOTAL				50.50

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ANDERSON.COM 000062 • ANDREW ECKHART, PE# 2009018717

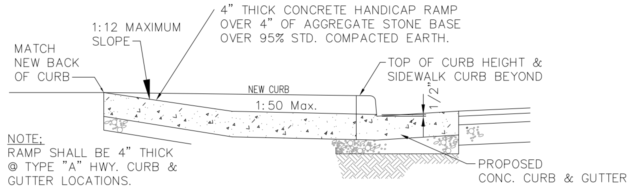
STATE OF MISSOURI JONATHAN ANDREW ECKHART NUMBER PE-2009018717 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	BY	DATE
△	REVISED PER MODOT REVIEW		

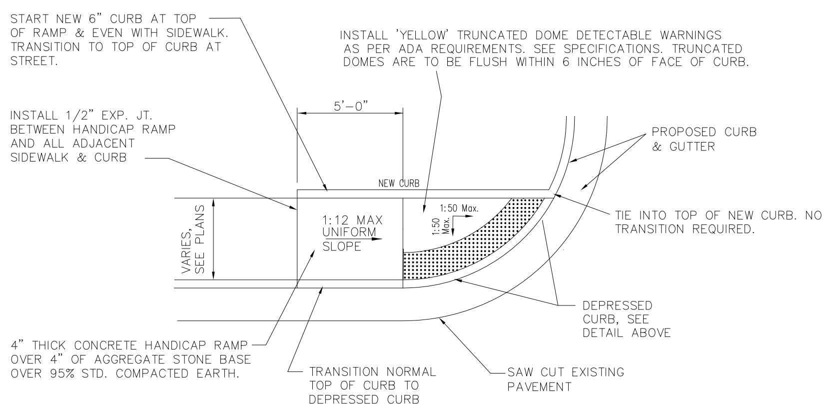
DRAWING INFO.
FIELD BY:
DRAWN BY: BSB 1/27/2016
CHECK BY: JAE
DATE:
FIELD BOOK:
JOB NUMBER:

TRAFFIC CONTROL PLAN
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

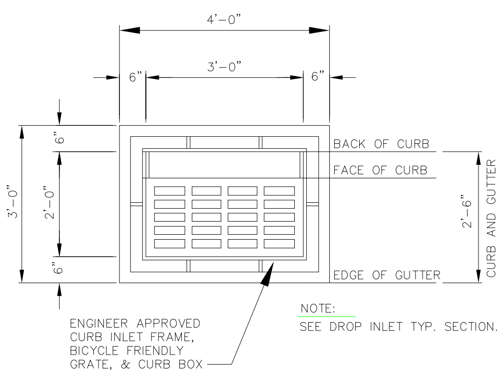
SHEET NUMBER 7 OF 9



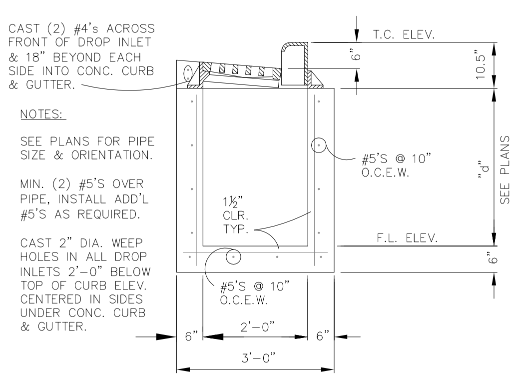
TYPE "A" ADA RAMP SECTION DETAIL
SCALE: NONE



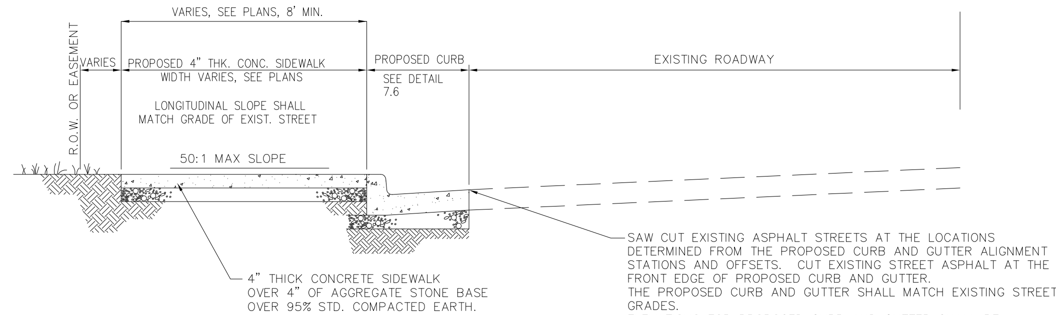
7.1 TYPE "A" ADA RAMP PLAN DETAIL
N.T.S.



7.2 SINGLE DROP INLET PLAN
N.T.S.

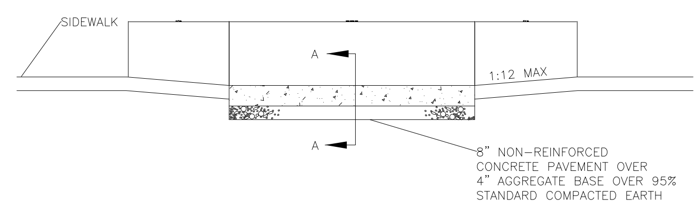


DROP INLET – TYPICAL SECTION
N.T.S.

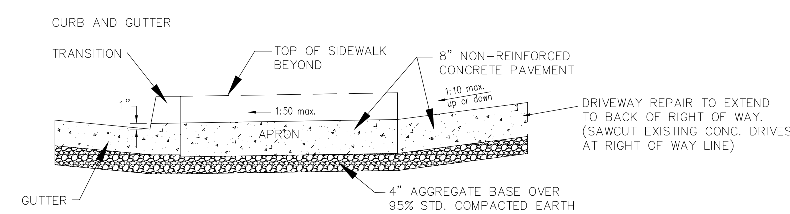


7.3 TYPE 1 SIDEWALK
N.T.S.

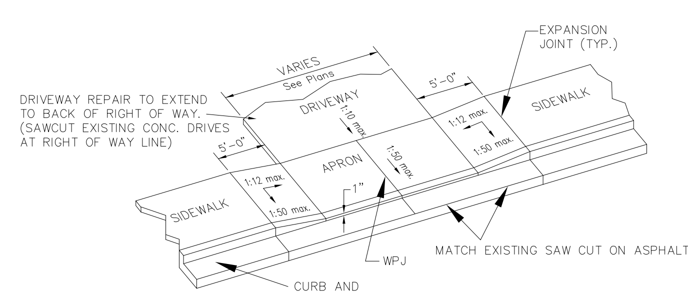
NOTE:
WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR DRIVEWAYS 10' TO 20' WIDE. DRIVEWAYS 22' TO 35' WIDE SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS.



ELEVATION AT DRIVEWAY ENTRANCE
SCALE: NONE

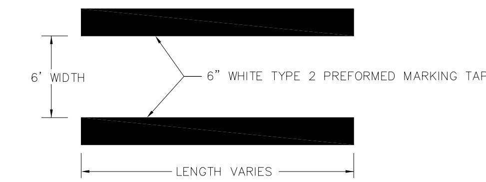


SECTION "A-A" AT DRIVEWAY ENTRANCE
SCALE: NONE

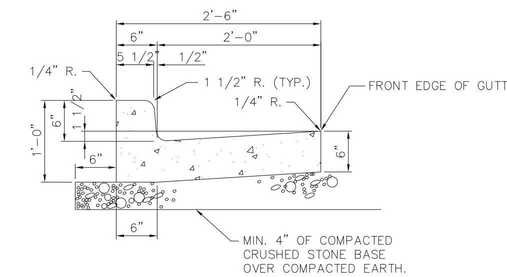


7.6 TYPICAL DRIVEWAY ENTRANCE DETAIL
N.T.S.

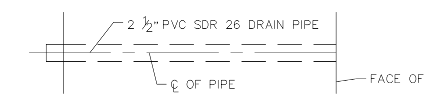
NOTE:
WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR DRIVEWAYS 10' TO 20' WIDE. DRIVEWAYS 22' TO 35' WIDE SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS.



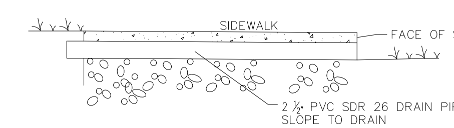
7.4 TYPICAL CROSSWALK DETAIL
N.T.S.



7.5 STANDARD CURB & GUTTER DETAIL
N.T.S.



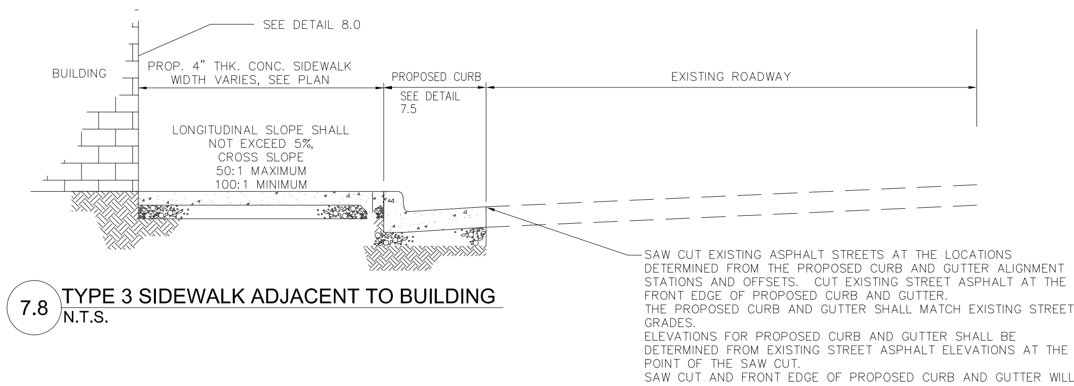
PLAN VIEW



ELEVATION VIEW

7.7 SIDEWALK DRAIN
N.T.S.

NOTE:
⚠ INSTALL 1 SOLID PIECE OF PVC DRAIN PIPE WITH NO JOINTS.



7.8 TYPE 3 SIDEWALK ADJACENT TO BUILDING
N.T.S.

⚠

CALL OR CLICK 3 DAYS BEFORE YOU DIG!
1-800-DIG-RITE or 811
www.mocall.com

CAUTION:
INFORMATION ON THIS DRAWING CONCERNING TYPE & LOCATION OF UNDERGROUND & OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE & LOCATION OF UNDERGROUND & OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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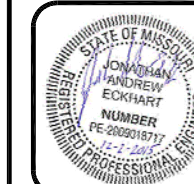


DRAWING INFO.

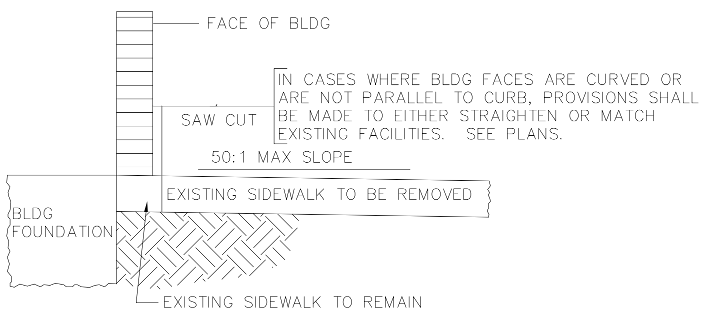
FIELD BY:	
DRAWN BY:	BSB
CHECK BY:	JAE
DATE:	
FIELD BOOK:	
JOB NUMBER:	

REVISIONS

NO.	DESCRIPTION	BY	DATE
⚠	REVISED PER MODOT REVIEW		1/18/2016

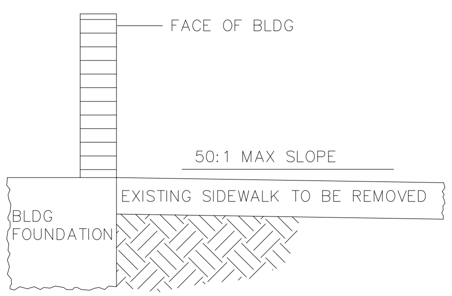
Details
SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER
8
OF 9



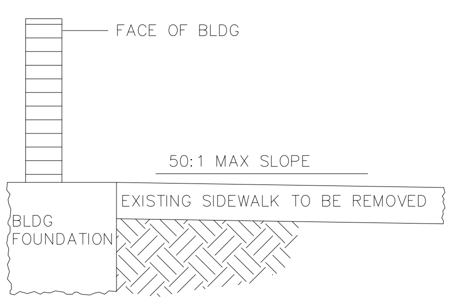
EXISTING SIDEWALK UNDER BLDG FACE

N.T.S.



EXISTING SIDEWALK FLUSH W/ BLDG FACE

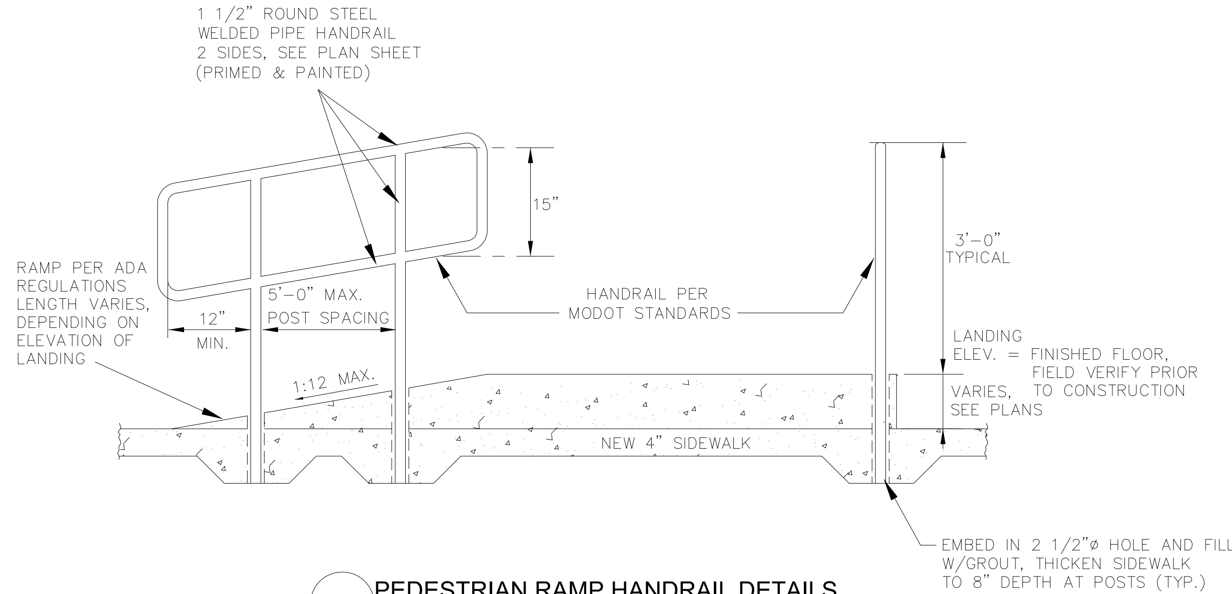
N.T.S.



EXISTING SIDEWALK BEYOND BLDG FACE

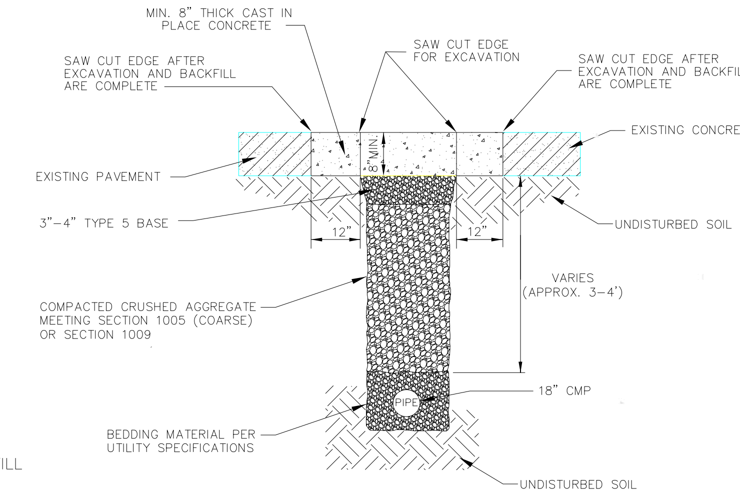
N.T.S.

8.0 SIDEWALK REMOVAL ADJACENT TO BUILDING
N.T.S.



8.1 PEDESTRIAN RAMP HANDRAIL DETAILS
N.T.S.

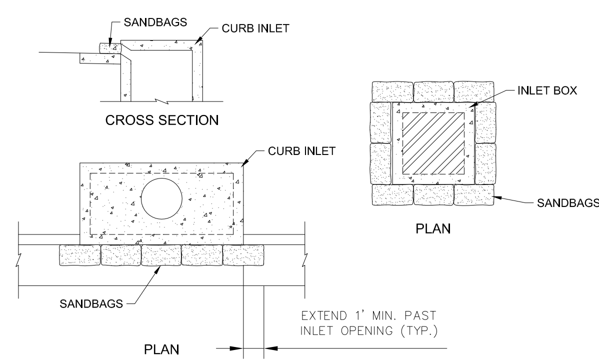
MATERIAL FOR PEDESTRIAN HANDRAIL SHALL BE AASHTO M270, GR. 36 AND SHALL BE PAINTED (BLACK).



8.4 PAVEMENT REPAIR DETAIL
N.T.S.

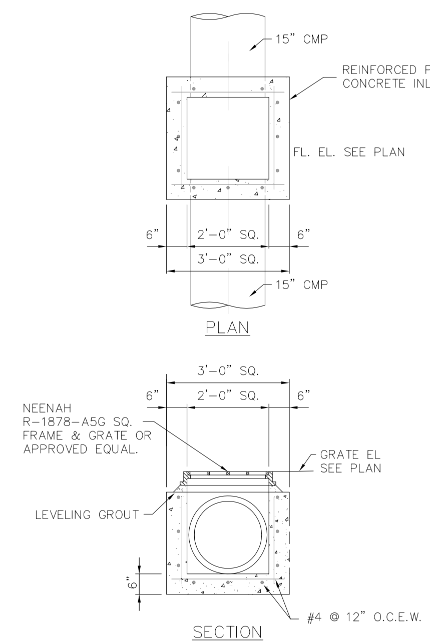
NOTE:

1. ON PERPENDICULAR STREET CROSSINGS, COMPACTED CRUSHED STONE LAYER SHALL EXTEND 2' BEYOND EDGE OF STREET SURFACE
2. CONCRETE SHALL MEET REQUIREMENTS OF SECTION 501 PAVEMENT CONCRETE
3. ASPHALT SHALL MEET REQUIREMENTS OF SECTION 403 (TYPICAL 2" SP125 ON 8" SP250)

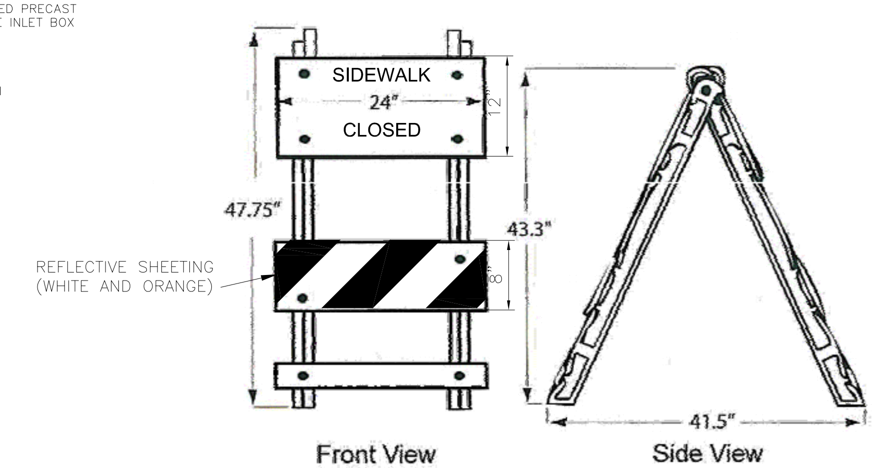


8.2 SANDBAG SEDIMENT TRAP
N.T.S.

(TO BE USED ON ALL INLETS AND MAINTAINED)



8.3 AREA INLET BOX DETAIL
N.T.S.



8.5 TYPICAL SIDEWALK BARRICADE
N.T.S.

NOTE:
BARRICADE SIZE AND MATERIALS CAN VARY BUT OVERALL DESIGN AND SIZE SHOULD BE VERY SIMILAR.

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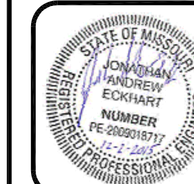

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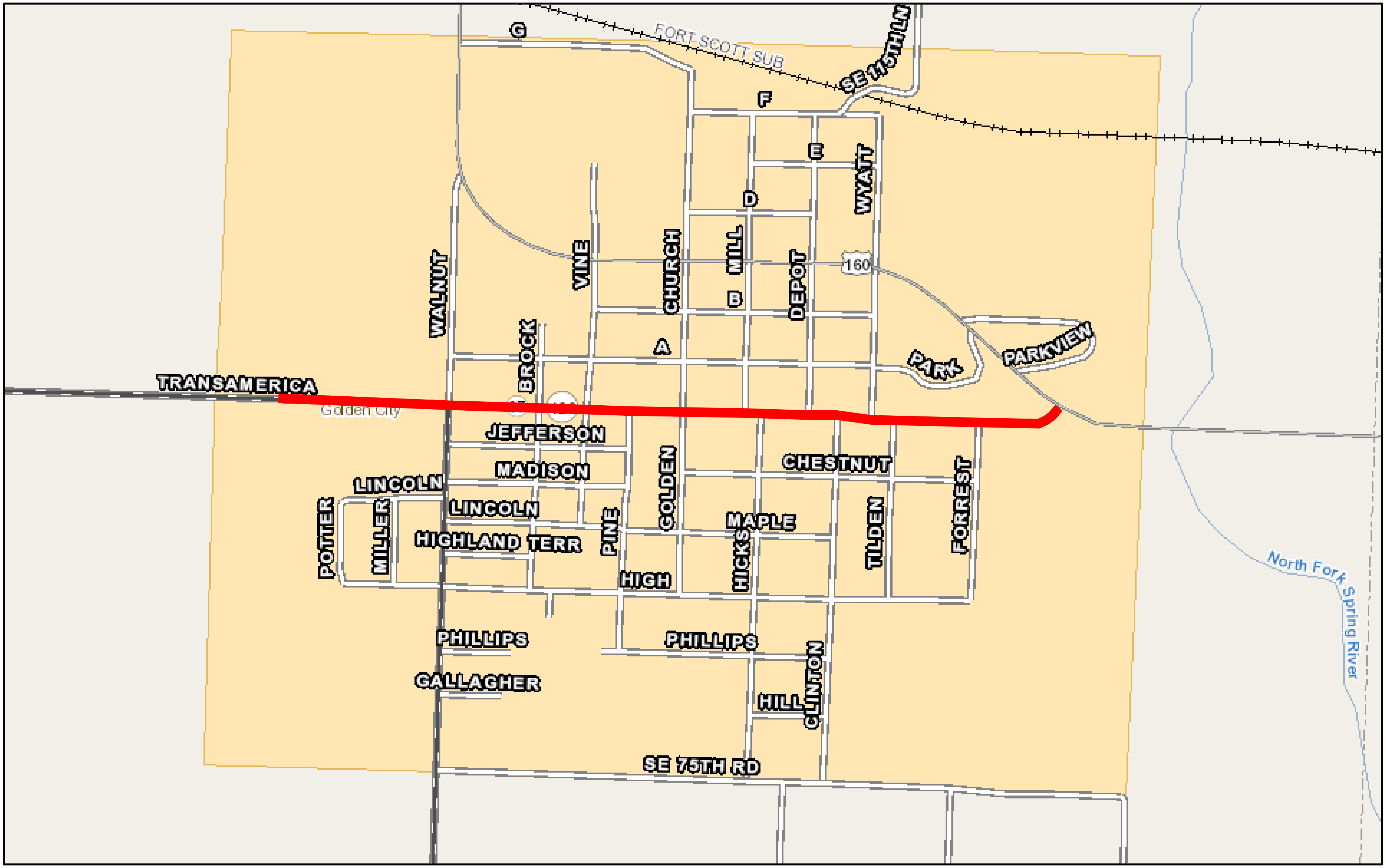
Details

SIDEWALK ENHANCEMENT
TAP-9900(745)
SEC 35, T31N, R29W
GOLDEN CITY, MISSOURI

SHEET NUMBER 9 OF 9

J7S3531 - City of Golden City



February 5, 2023

1:12,000

0 0.08 0.16 0.32 mi

0 0.13 0.26 0.52 km

Missouri Department of Transportation

= PROJECT LIMITS (Route 126)