MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT
McDONALD COUNTY

DESIGN DESIGNATION

A.D.T. - 2007 = 23,040
A.D.T. - 2027 = 44,470
D.H.V. = 7%
T = 29%
V = 70 M.P.H.

FUNCTIONAL CLASSIFICATION - INTERSTATE

FULLY-CONTROLLED ACCESS HIGHWAY

THIS SHALL BE A FULLY CONTROLLED ACCESS HIGHWAY, BETWEEN STA. 735+90.89 (S.B.L.) AND STA. 988+65.36. NO ABUTTING OWNER SHALL HAVE THE RIGHT OF DIRECT ACCESS TO SAID HIGHWAY OR ITS RIGHT-OF-WAY EXCEPT THAT ACCESS WILL BE PERMITTED TO ANY ADJACENT OUTER ROADWAY OR SERVICE ROAD TO WHICH ACCESS IS NOT SPECIFICALLY PROHIBITED BY THE SPECIAL SYMBOL DENOTING "NO RIGHT OF ACCESS" AS SHOWN ON THE PLANS. NO ACCESS WILL BE PERMITTED FROM OUTER ROADWAYS AND SERVICE ROADS TO THROUGHWAYS EXCEPT ALONG ROUTES CONSTRUCTED FOR THAT PURPOSE. OUTER ROADWAYS AND SERVICE ROADS, AS THE CASE MAY BE, ARE SO DESIGNATED ON THE PLANS

BEGINNING AND ENDING OF CONTROLLED ACCESS
CONTROLLED ACCESS
NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.
TEMPORARY ACCESS THROUGH FUTURE NO RIGHT OF WAY

CONVENTIONAL SYMBOLS
(USED IN PLANS)

EXISTING | NEW

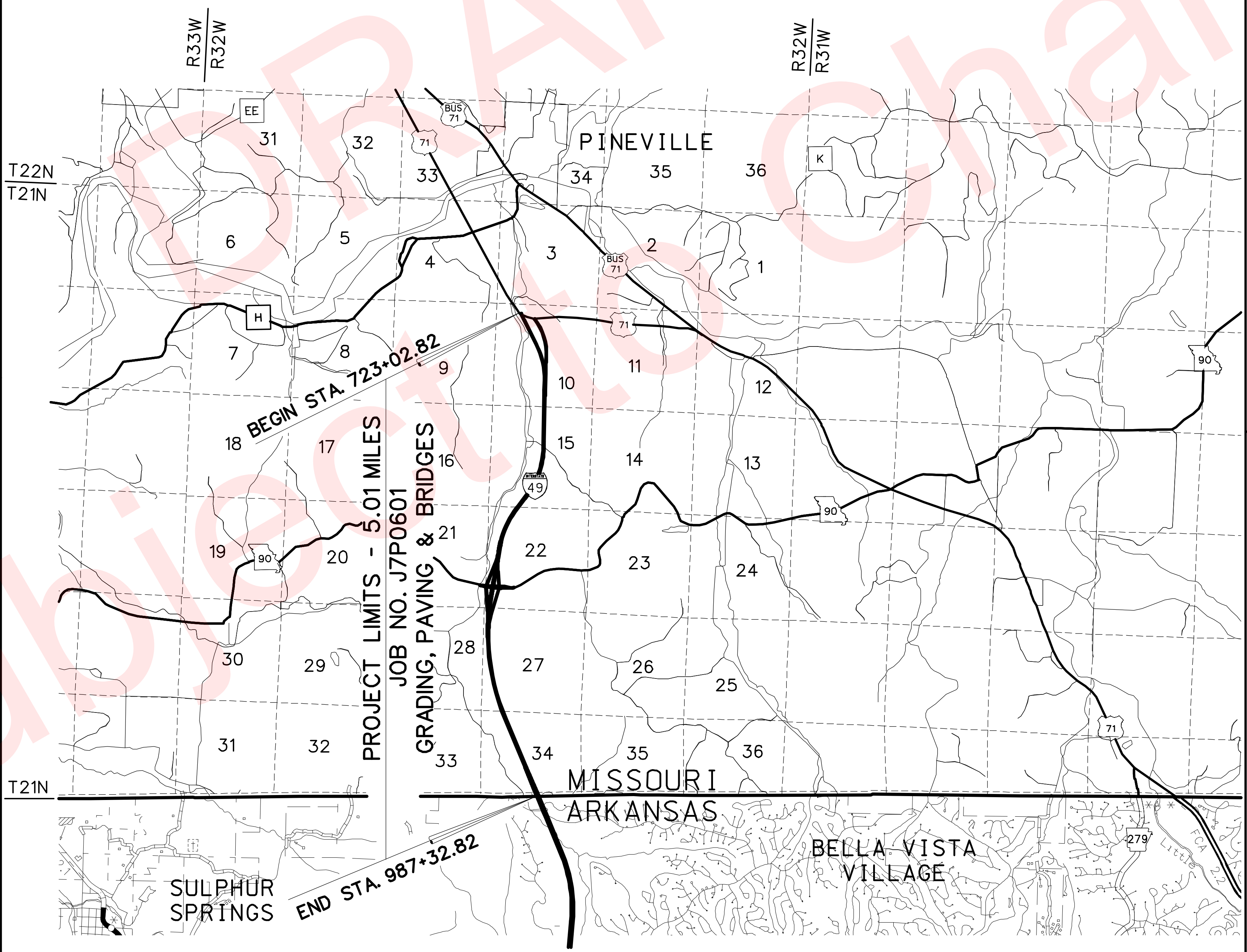
BUILDINGS AND STRUCTURES
GUARD RAIL
CONCRETE RIGHT-OF-WAY MARKER
STEEL RIGHT-OF-WAY MARKER
FENCE
- CHAIN LINK — V
- WOVEN WIRE — X
- GATE POST

UTILITIES
- UNDERGROUND TELEPHONE — T
- OVERHEAD POWER
- UNDERGROUND POWER — P
- GAS — G
- WATER — W

MANHOLE — SAN
FIRE HYDRANT — HYD
WATER VALVE — WV
WATER METER — WM
DROP INLET — DI
DITCH BLOCK
GROUND MOUNTED SIGN — SIGN
LIGHT POLE
H-FRAME POWER POLE
TELEPHONE PEDESTAL — PED

GRS MONUMENT
BENCHMARK — BM

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (13 SHEETS)	2
QUANTITIES (QU) (10 SHEETS)	3
PLAN-PROFILE (PP)	4 - 37
RIGHT OF WAY (RW)	-
REFERENCE POINTS (RP)	38
COORDINATE POINTS (CP)	39 - 40
SPECIAL SHEETS (SS)	41 - 56
TRAFFIC CONTROL SHEETS (TC)	57 - 63
EROSION CONTROL SHEETS (EC)	64 - 77
LIGHTING (LT)	78 - 81
SIGNALS (SG)	-
SIGNING (SN)	82 - 108
PAVEMENT MARKING (PM)	109 - 114
CULVERT SECTIONS (CS)	115 - 158
CROSS SECTIONS (XS)	1 - 343
BR A6380 (BR)	-
BR A7000 (BR)	-

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	723+02.82
END OF PROJECT	STA.	987+32.82
APPARENT LENGTH	26,430.00	FEET
EQUATIONS AND EXCEPTIONS:	NONE	
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	26,430.00	FEET
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	26,430.00	FEET
STATE LENGTH	5.006	MILES
FEDERAL LENGTH	5.006	MILES

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	1
COUNTY	McDONALD
JOB NO.	J7P0601
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

REV.

CROSS SLOPE

(1) 2.0%
(2) S.E. SLOPE IF GREATER THAN 2.0%

[1] NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

NOTES:

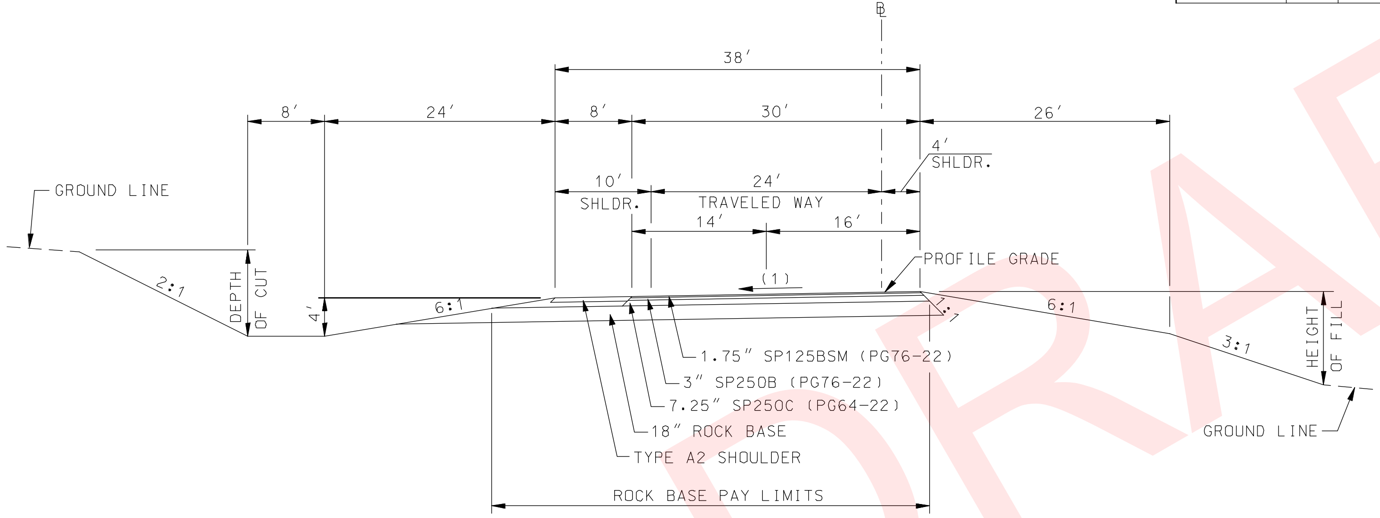
SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

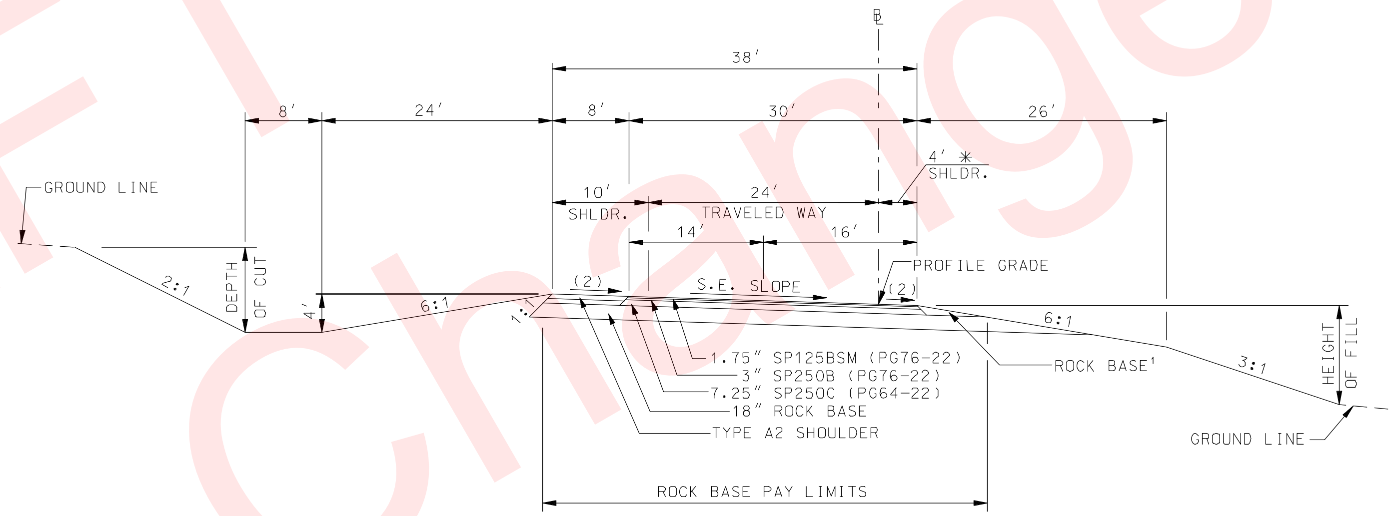
I-49 N.B.L. NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
729+20.22		-0.29% -4.26% ℄; 10' 12' 12' 4'	MATCH EXIST. RTE. 71 (BEGIN PROJECT)
730+00.00	D-D	-6.3% ℄; 10' 12' 12' 4'	FULL SUPER
749+14.89	D-D	-6.3% ℄; 10' 12' 12' 4'	FULL SUPER
750+43.89	C-C	-2.0% ℄; 10' 12' 12' 4'	TRANSVERSE SLOPE
751+03.89	B-B	0.0% ℄; 10' 12' 12' 4'	
751+63.89	A-A	-2.0% ℄; 10' 12' 12' 4'	TRANSVERSE SLOPE
767+20.00		-2.0% ℄; 10' 12' 12' 6'	TRANSVERSE SLOPE

* RT. SHOULDER WIDTH AT BRIDGE A6380:
4' TO 6' FROM STA. 734+42.78 TO STA. 734+82.78
6' FROM STA. 734+82.78 TO STA. 737+95.47
6' TO 4' FROM STA. 737+95.47 TO STA. 738+35.47

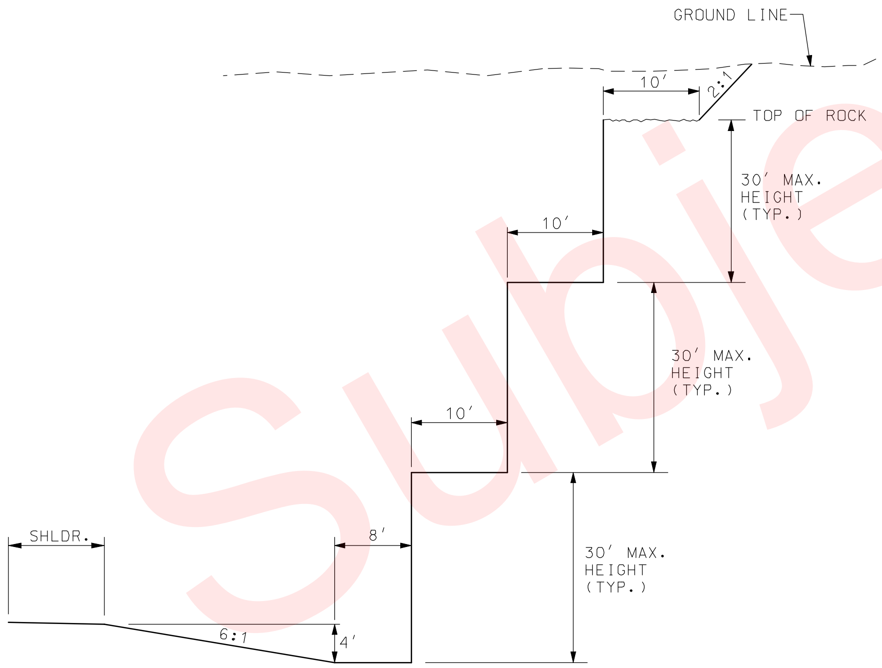


SECTION ON TANGENT

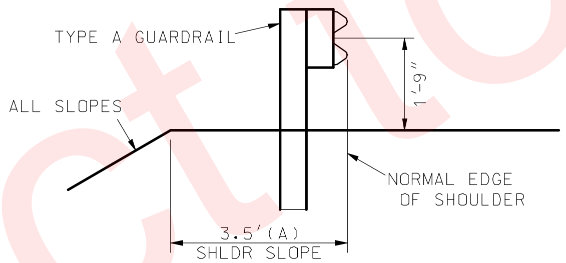


SECTION ON SUPERELEVATED CURVE

I-49 N.B.L. STA. 729+20.22 TO STA. 735+04.42, I-49 N.B.L. STA. 737+49.41 to STA. 767+20.00

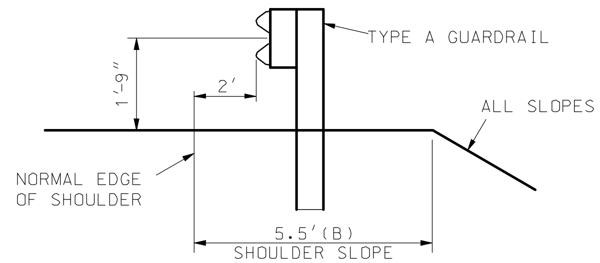


BENCHING SECTION
TYPICAL ROCK SECTION
I-49 N.B.L., I-49 S.B.L., I-49



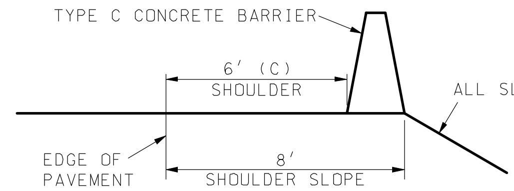
LT SHOULDER WIDENING FOR GUARDRAIL
I-49 N.B.L. LT
STA. 737+74.83 TO STA. 742+06.08

(A) TAPER 3.5' TO 0' FROM
STA. 741+53.58 TO STA. 742+06.08



RT SHOULDER WIDENING FOR GUARDRAIL
I-49 N.B.L. RT
STA. 737+37.84 TO STA. 741+49.09

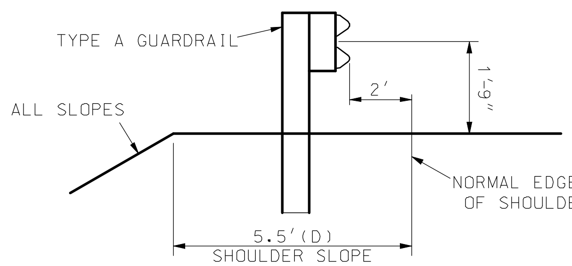
(B) TAPER 5.5' TO 0' FROM
STA. 740+66.59 TO STA. 741+49.09



RT SHOULDER WIDENING FOR CONCRETE BARRIER
I-49 N.B.L. RT
STA. 756+50.00 TO STA. 761+04.93

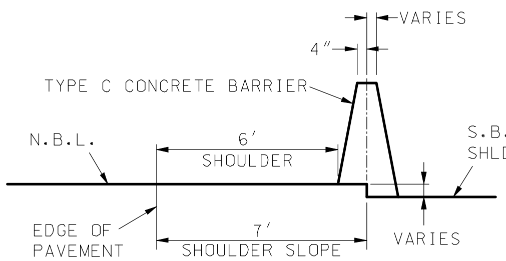
(C) TAPER 4' TO 6' FROM
STA. 756+50.00 TO STA. 757+50.00

INCREASE SHOULDER WIDTH FROM
6' TO 8' AT STA. 757+50.00



LT SHOULDER WIDENING FOR GUARDRAIL
I-49 N.B.L. LT
STA. 766+27.50 TO STA. 767+20.00

(D) TAPER 0' TO 5.5' FROM
STA. 766+27.50 TO STA. 767+10.00



RT SHOULDER WIDENING FOR CONCRETE BARRIER
I-49 N.B.L. RT
STA. 761+04.93 TO STA. 767+20.00

I-49 N.B.L.
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 1 OF 13

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY McDONALD	
JOB NO. J7P0601	
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.

CROSS SLOPE

(1) 2.0%
(2) S.E. SLOPE IF GREATER THAN 2.0%

[1] NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

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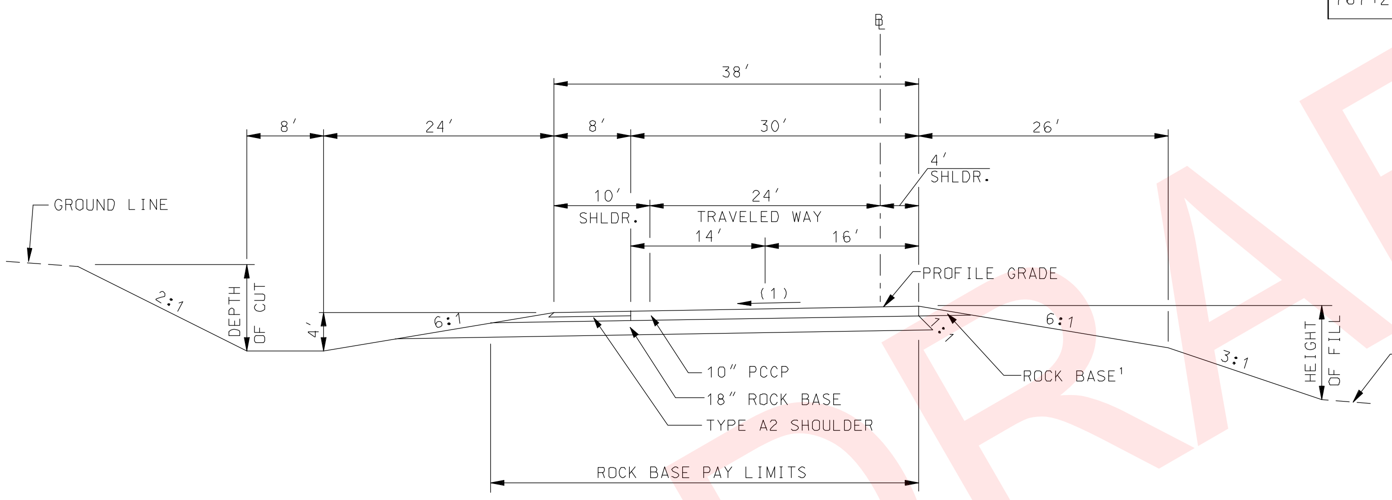
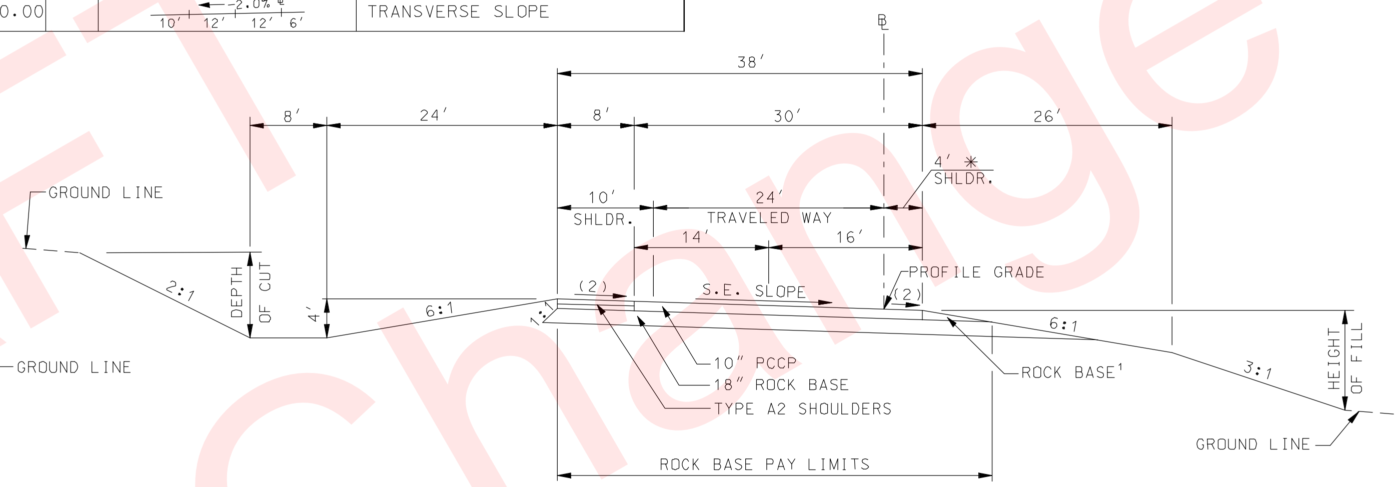
I-49 N.B.L. NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
729+20.22		-0.29% -4.26% ℄ 10' 12' 12' 4'	MATCH EXIST. RTE. 71 (BEGIN PROJECT)
730+00.00	D-D	-6.3% ℄ 10' 12' 12' 4'	FULL SUPER
749+14.89	D-D	-6.3% ℄ 10' 12' 12' 4'	FULL SUPER
750+43.89	C-C	-2.0% ℄ 10' 12' 12' 4'	TRANSVERSE SLOPE
751+03.89	B-B	0.0% ℄ 10' 12' 12' 4'	
751+63.89	A-A	-2.0% ℄ 10' 12' 12' 4'	TRANSVERSE SLOPE
767+20.00		-2.0% ℄ 10' 12' 12' 6'	TRANSVERSE SLOPE

✱ RT. SHOULDER WIDTH AT BRIDGE A6380:
4' TO 6' FROM STA. 734+42.78 TO STA. 734+82.78
6' FROM STA. 734+82.78 TO STA. 737+95.47
6' TO 4' FROM STA. 737+95.47 TO STA. 738+35.47

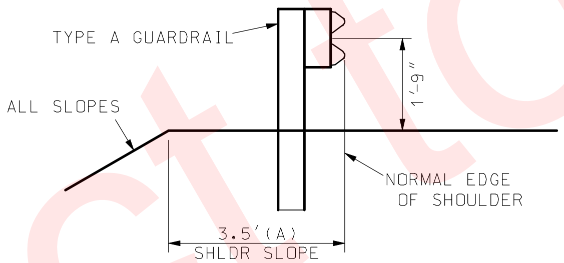


SECTION ON TANGENT



SECTION ON SUPERELEVATED CURVE

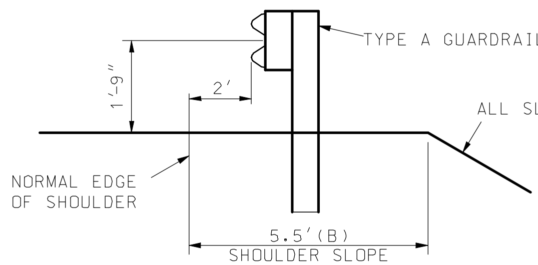
I-49 N.B.L. STA. 729+20.22 TO STA. 735+04.42, I-49 N.B.L. STA. 737+49.41 TO STA. 767+20.00



LT SHOULDER WIDENING FOR GUARDRAIL

I-49 N.B.L. LT
STA. 737+74.83 TO STA. 742+06.08

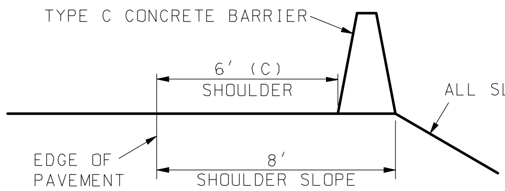
(A) TAPER 3.5' TO 0' FROM
STA. 741+53.58 TO STA. 742+06.08



RT SHOULDER WIDENING FOR GUARDRAIL

I-49 N.B.L. RT
STA. 737+37.84 TO STA. 741+49.09

(B) TAPER 5.5' TO 0' FROM
STA. 740+66.59 TO STA. 741+49.09

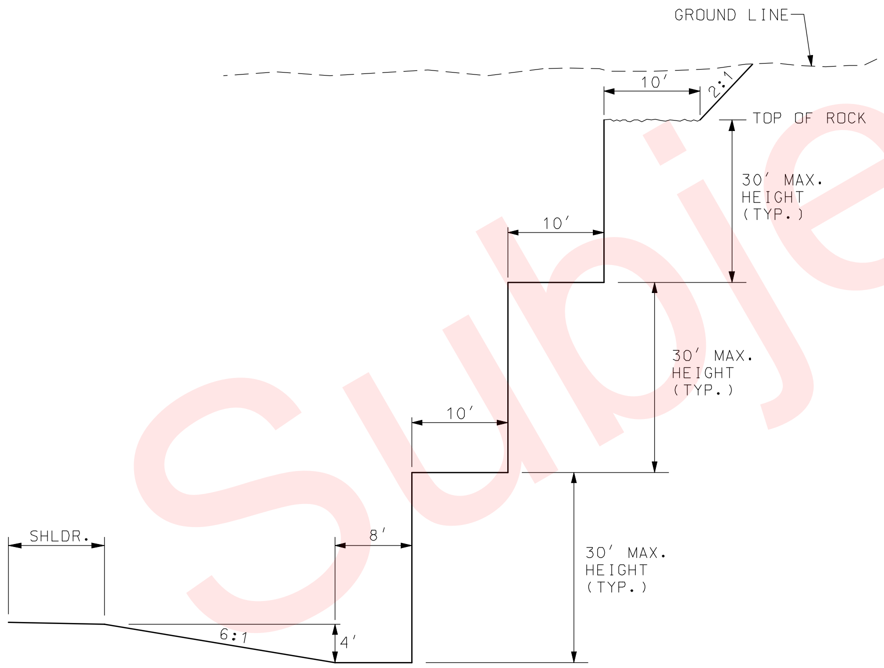


RT SHOULDER WIDENING FOR CONCRETE BARRIER

I-49 N.B.L. RT
STA. 756+50.00 TO STA. 761+04.93

(C) TAPER 4' TO 6' FROM
STA. 756+50.00 TO STA. 757+50.00

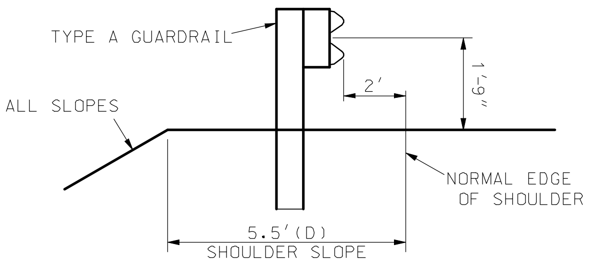
INCREASE SHOULDER WIDTH FROM
6' TO 8' AT STA. 757+50.00



BENCHING SECTION

TYPICAL ROCK SECTION

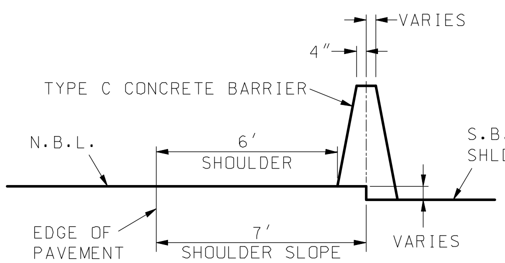
I-49 N.B.L., I-49 S.B.L., I-49



LT SHOULDER WIDENING FOR GUARDRAIL

I-49 N.B.L. LT
STA. 766+27.50 TO STA. 767+20.00

(D) TAPER 0' TO 5.5' FROM
STA. 766+27.50 TO STA. 767+10.00



RT SHOULDER WIDENING FOR CONCRETE BARRIER

I-49 N.B.L. RT
STA. 761+04.93 TO STA. 767+20.00

I-49 N.B.L.
ALTERNATE B (CONCRETE)
TYPICAL SECTION
SHEET 2 OF 13

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY McDONALD	
JOB NO. J7P0601	
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.

CROSS SLOPE

(1) 2.0%
(2) S.E. SLOPE IF GREATER THAN 2.0%

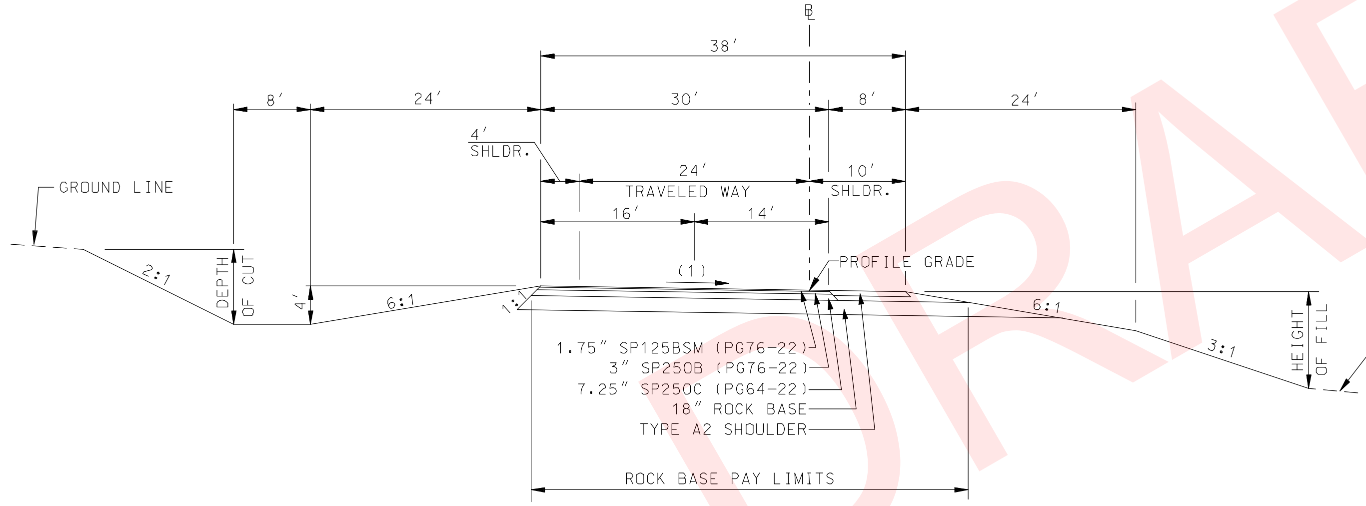
NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

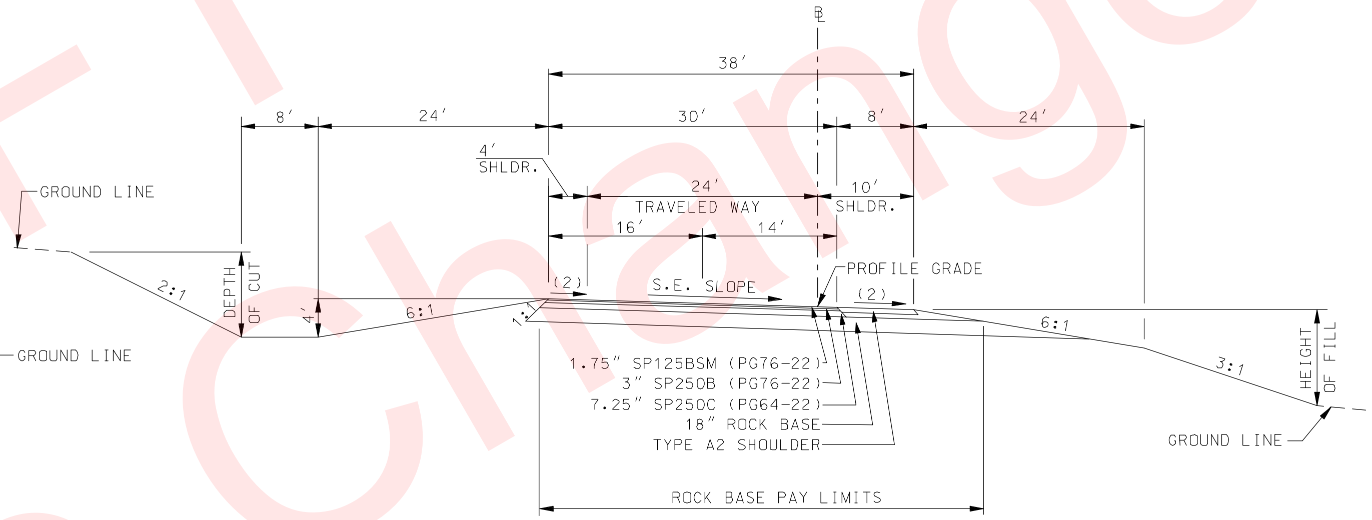
THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

I-49 S.B.L. NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
723+02.82		-2.0% ℄ 4′ 12′ 12′ 10′	TRANSVERSE SLOPE (BEGIN PROJECT)
740+52.91	G-G	-2.0% ℄ 4′ 12′ 12′ 10′	TRANSVERSE SLOPE
741+39.91	H-H	-4.9% ℄ 4′ 12′ 12′ 10′	FULL SUPER
759+66.79	H-H	-4.9% ℄ 6′ 12′ 12′ 10′	FULL SUPER
760+53.79	G-G	-2.0% ℄ 6′ 12′ 12′ 10′	TRANSVERSE SLOPE
764+93.73		-2.0% ℄ 6′ 12′ 12′ 10′	TRANSVERSE SLOPE

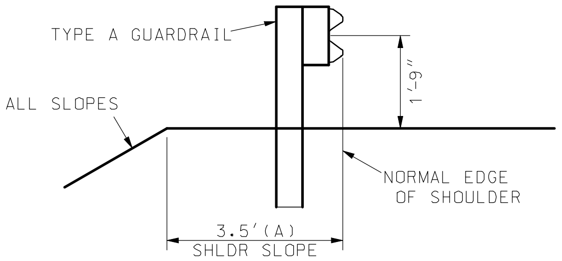


SECTION ON TANGENT



SECTION ON SUPERELEVATED CURVE

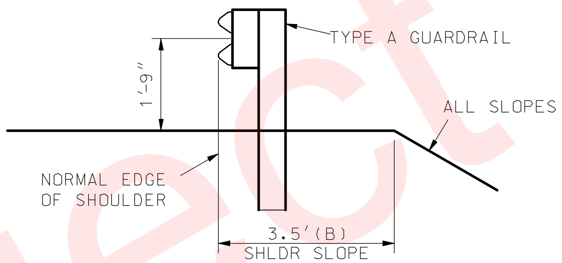
I-49 S.B.L. STA. 723+02.82 TO I-49 S.B.L. STA. 764+93.73



LT SHOULDER WIDENING FOR GUARDRAIL

I-49 S.B.L. LT
STA. 753+43.75 TO STA. 755+75.00

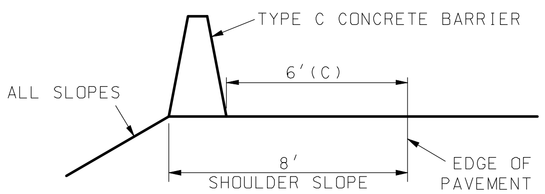
(A) TAPER 0′ TO 3.5′ FROM
STA. 753+43.75 TO STA. 753+96.25



RT SHOULDER WIDENING FOR GUARDRAIL

I-49 S.B.L. RT
STA. 723+47.87 TO STA. 728+62.50

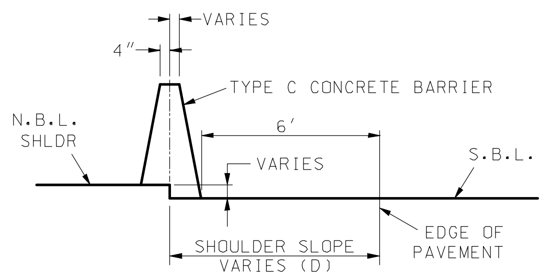
(B) TAPER 3.5′ TO 0′ FROM
STA. 728+10.00 TO STA. 728+62.50



LT SHOULDER WIDENING FOR CONCRETE BARRIER

I-49 S.B.L. LT
STA. 755+75.00 TO STA. 758+79.73

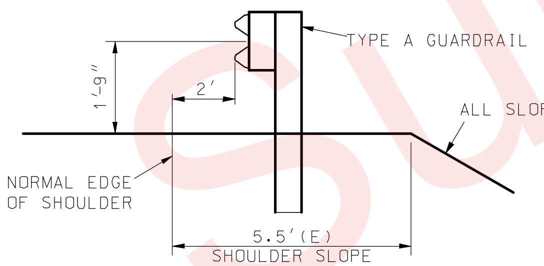
(C) TAPER 4′ TO 6′ FROM
STA. 753+75.00 TO STA. 755+25.00



LT SHOULDER WIDENING FOR CONCRETE BARRIER

I-49 S.B.L. LT
STA. 758+79.73 TO STA. 764+93.73

(D) TAPER 9′-4″ TO 7′ FROM
STA. 758+79.73 TO STA. 760+15.79



RT SHOULDER WIDENING FOR GUARDRAIL

I-49 S.B.L. RT
STA. 760+82.50 TO STA. 764+93.73

(E) TAPER 0′ TO 5.5′ FROM
STA. 760+82.50 TO STA. 761+65.00

I-49 S.B.L.
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 3 OF 13

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY	McDONALD
JOB NO.	J7P0601
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)

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

REV.

CROSS SLOPE

(1) 2.0%
(2) S.E. SLOPE IF GREATER THAN 2.0%

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

I-49 S.B.L. NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
723+02.82		-2.0% ℄ 4' 12' 12' 10'	TRANSVERSE SLOPE (BEGIN PROJECT)
740+52.91	G-G	-2.0% ℄ 4' 12' 12' 10'	TRANSVERSE SLOPE
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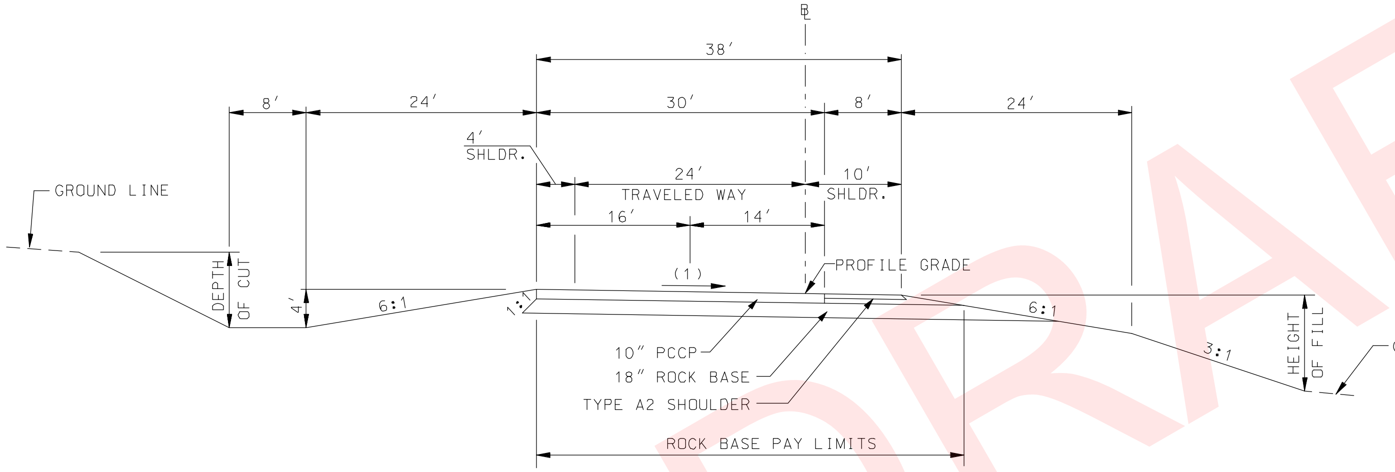
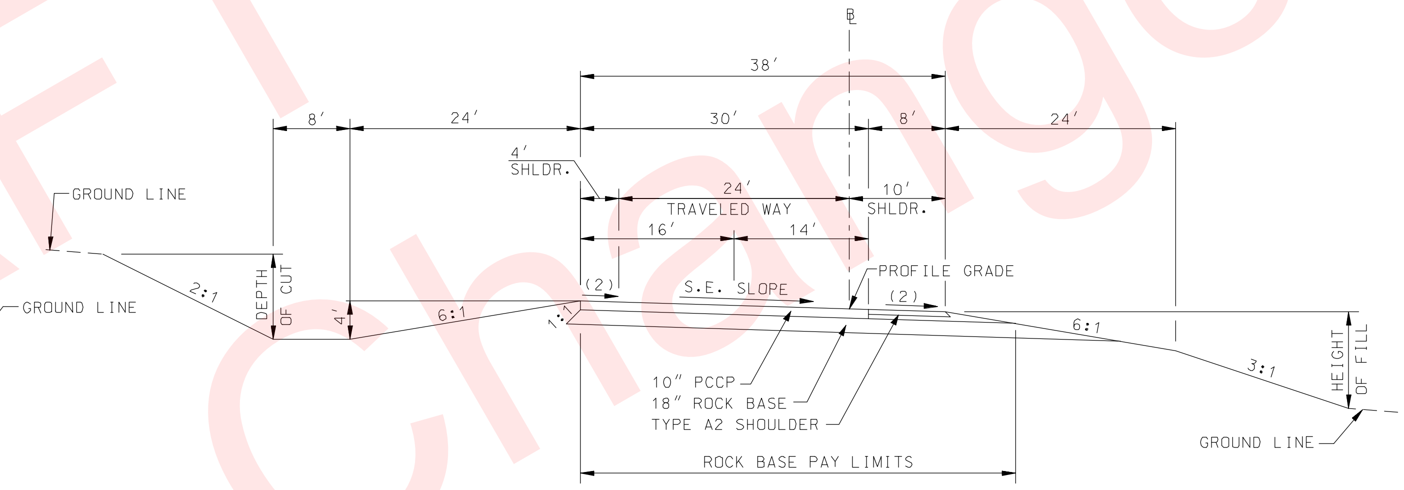
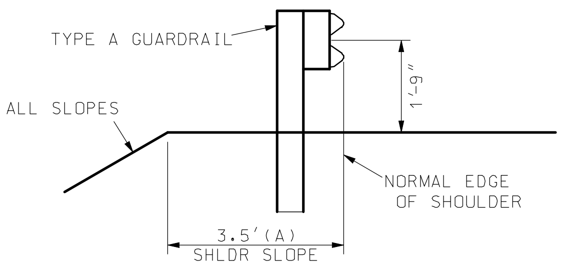


SECTION ON TANGENT



SECTION ON SUPERELEVATED CURVE

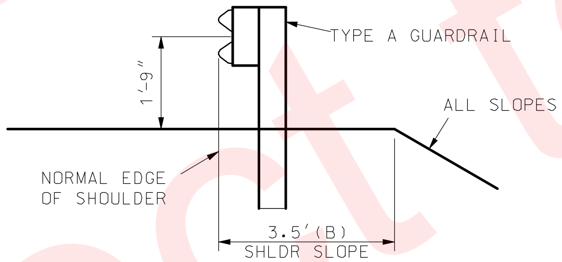
I-49 S.B.L. STA. 723+02.82 TO I-49 S.B.L. STA. 764+93.73



LT SHOULDER WIDENING
FOR GUARDRAIL

I-49 S.B.L. LT
STA. 753+43.75 TO STA. 755+75.00

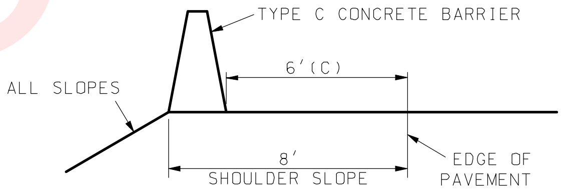
(A) TAPER 0' TO 3.5' FROM
STA. 753+43.75 TO STA. 753+96.25



RT SHOULDER WIDENING
FOR GUARDRAIL

I-49 S.B.L. RT
STA. 723+47.87 TO STA. 728+62.50

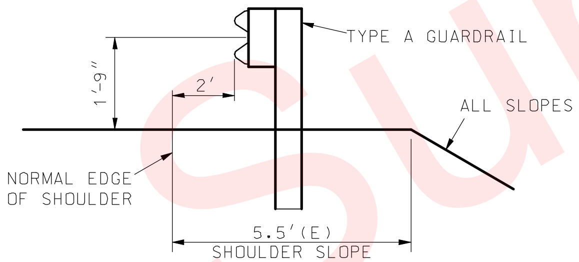
(B) TAPER 3.5' TO 0' FROM
STA. 728+10.00 TO STA. 728+62.50



LT SHOULDER WIDENING
FOR CONCRETE BARRIER

I-49 S.B.L. LT
STA. 755+75.00 TO STA. 758+79.73

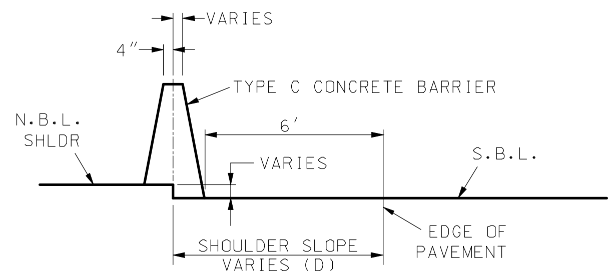
(C) TAPER 4' TO 6' FROM
STA. 753+75.00 TO STA. 755+25.00



RT SHOULDER WIDENING
FOR GUARDRAIL

I-49 S.B.L. RT
STA. 760+82.50 TO STA. 764+93.73

(E) TAPER 0' TO 5.5' FROM
STA. 760+82.50 TO STA. 761+65.00



LT SHOULDER WIDENING
FOR CONCRETE BARRIER

I-49 S.B.L. LT
STA. 758+79.73 TO STA. 764+93.73

(D) TAPER 9'-4" TO 7' FROM
STA. 758+79.73 TO STA. 760+15.79

I-49 S.B.L.
ALTERNATE B (CONCRETE)
TYPICAL SECTION
SHEET 4 OF 13

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

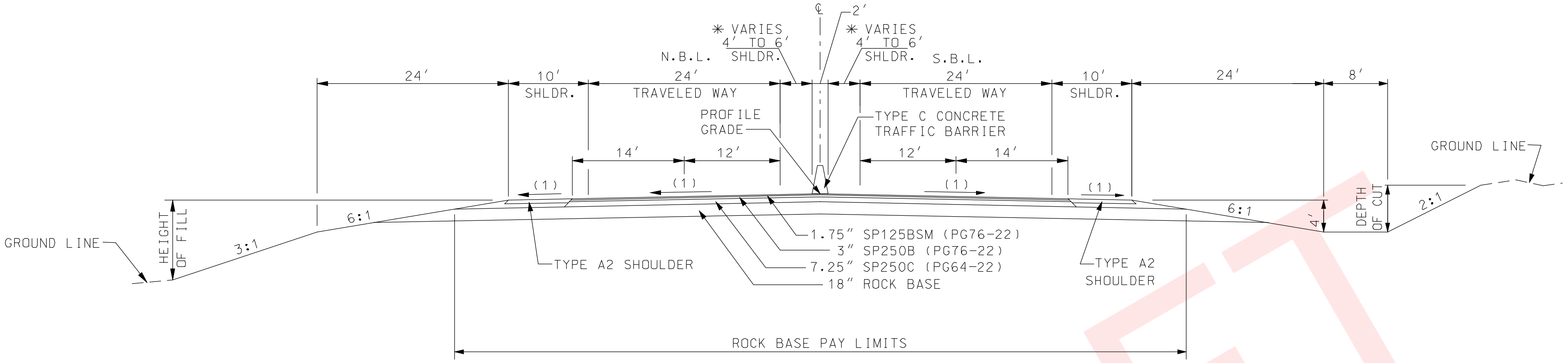
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

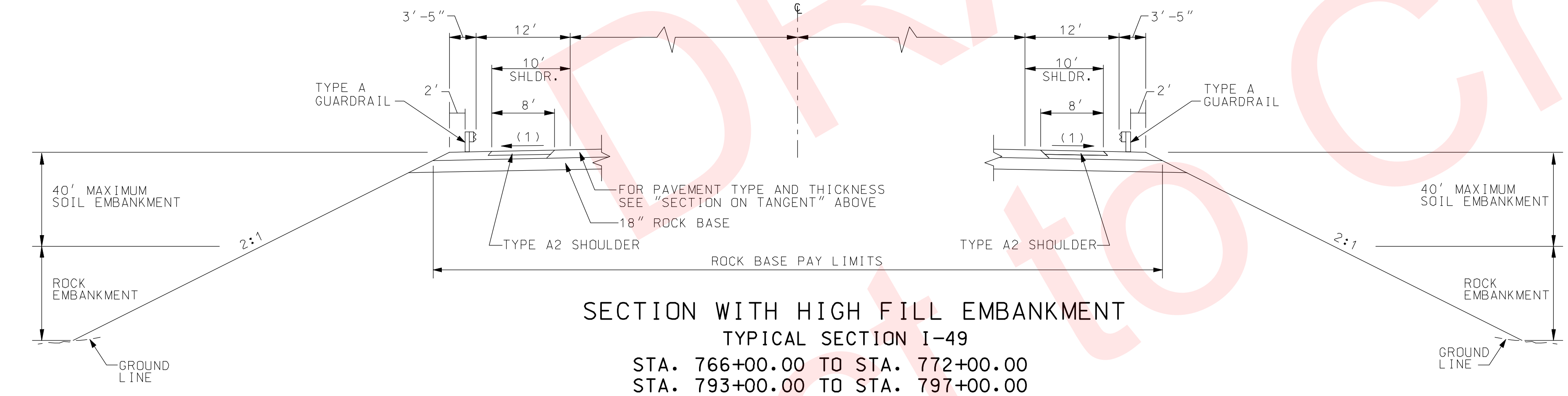
REV.



SECTION ON TANGENT

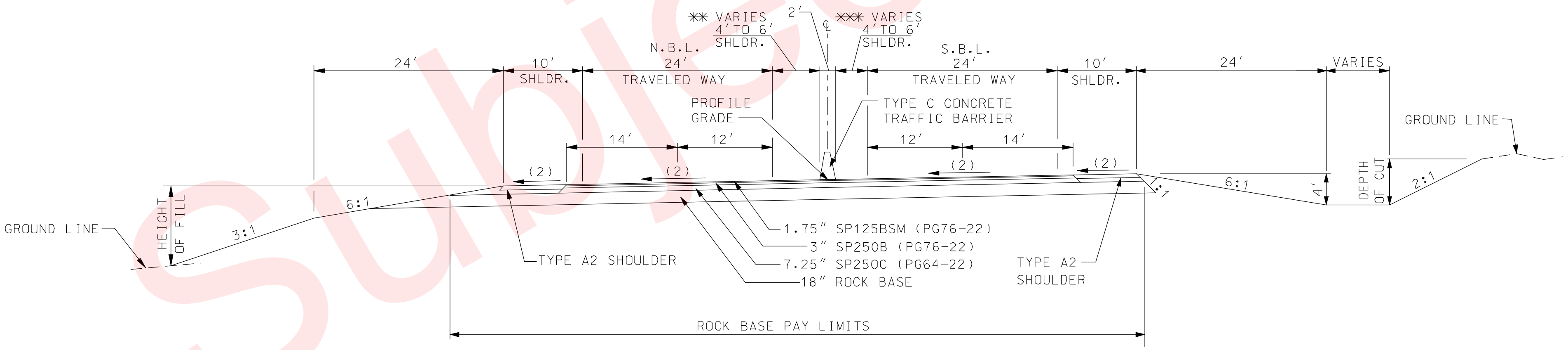
TYPICAL SECTION I-49
STA. 764+93.73 TO STA. 791+82.33
STA. 823+42.05 TO STA. 829+00.52
STA. 854+14.36 TO STA. 869+00.00
STA. 944+14.86 TO STA. 969+00.00

*TAPER 6' TO 4' FROM
STA. 765+00.00 TO STA. 768+00.00



SECTION WITH HIGH FILL EMBANKMENT

TYPICAL SECTION I-49
STA. 766+00.00 TO STA. 772+00.00
STA. 793+00.00 TO STA. 797+00.00
STA. 840+00.00 TO STA. 848+00.00
STA. 935+00.00 TO STA. 938+00.00
STA. 983+00.00 TO STA. 987+32.82



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION I-49
STA. 791+82.33 TO STA. 823+42.05
STA. 829+00.52 TO STA. 854+14.36

** TAPER 4' TO 6' FROM STA. 791+66.73 TO STA. 794+66.73

TAPER 6' TO 4' FROM STA. 820+57.65 TO STA. 823+57.65

*** TAPER 4' TO 6' FROM STA. 828+84.92 TO STA. 831+84.92

TAPER 6' TO 4' FROM STA. 851+29.96 TO STA. 854+21.96

I-49 NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
764+93.73		←-2.0% ℄ -2.0%→ ; 10' 12' 12' 7' 7' 12' 12' 10'	NORMAL SLOPE
791+82.33	A-A	←-2.0% ℄ -2.0%→ ; 10' 12' 12' 5.10' 5' 12' 12' 10'	NORMAL SLOPE
792+90.33	B-B	0.0% ℄ -2.0%→ ; 10' 12' 12' 5.82' 5' 12' 12' 10'	
793+98.33	C-C	→-2.0% ℄ -2.0%→ ; 10' 12' 12' 6.54' 5' 12' 12' 10'	REVERSE CROWN
795+54.93	D-D	→-4.9% ℄ -4.9%→ ; 10' 12' 12' 7' 5' 12' 12' 10'	FULL SUPER
819+69.45	D-D	→-4.9% ℄ -4.9%→ ; 10' 12' 12' 7' 5' 12' 12' 10'	FULL SUPER
821+26.05	C-C	→-2.0% ℄ -2.0%→ ; 10' 12' 12' 6.54' 5' 12' 12' 10'	REVERSE CROWN
822+34.05	B-B	0.0% ℄ -2.0%→ ; 10' 12' 12' 5.82' 5' 12' 12' 10'	
823+42.05	A-A	←-2.0% ℄ -2.0%→ ; 10' 12' 12' 5.10' 5' 12' 12' 10'	NORMAL SLOPE
829+00.52	A-A	←-2.0% ℄ -2.0%→ ; 10' 12' 12' 5' 5.10' 12' 12' 10'	NORMAL SLOPE
830+08.52	B-B	←-2.0% ℄ 0.0% ; 10' 12' 12' 5' 5.82' 12' 12' 10'	
831+16.52	C-C	←-2.0% ℄ ←-2.0% ; 10' 12' 12' 5' 6.54' 12' 12' 10'	REVERSE CROWN
832+73.12	D-D	←-4.9% ℄ ←-4.9% ; 10' 12' 12' 5' 7' 12' 12' 10'	FULL SUPER
850+41.76	D-D	←-4.9% ℄ ←-4.9% ; 10' 12' 12' 5' 7' 12' 12' 10'	FULL SUPER
851+98.36	C-C	←-2.0% ℄ ←-2.0% ; 10' 12' 12' 5' 6.54' 12' 12' 10'	REVERSE CROWN
853+06.36	B-B	←-2.0% ℄ 0.0% ; 10' 12' 12' 5' 5.82' 12' 12' 10'	
854+14.36	A-A	←-2.0% ℄ -2.0%→ ; 10' 12' 12' 5' 5.10' 12' 12' 10'	NORMAL SLOPE
874+95.92	A-A	←-2.0% ℄ -2.0%→ ; 10' 12' 12' 6.69' 6.69' 12' 12' 10'	NORMAL SLOPE
876+03.92	B-B	←-2.0% ℄ 0.0% ; 10' 12' 12' 5.97 5.97' 12' 12' 10'	
877+11.92	C-C	←-2.0% ℄ ←-2.0% ; 10' 12' 12' 5.25' 5.25' 12' 12' 10'	REVERSE CROWN
941+98.86	C-C	←-2.0% ℄ ←-2.0% -2.0%→ ; 10' 12' 12' 5' 5' 12' 12' 10'	REVERSE CROWN
943+06.86	B-B	←-2.0% ℄ 0.0% -2.0%→ ; 10' 12' 12' 5' 5' 12' 12' 10'	
944+14.86	A-A	←-2.0% ℄ -2.0%→ ; 10' 12' 12' 5' 5' 12' 12' 10'	NORMAL SLOPE

CROSS SLOPE

(1) 2.0%

(2) S.E. SLOPE IF GREATER THAN 2.0%

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

PLACING OF ROCK EMBANKMENT SHALL BE INCLUDED IN THE PAY ITEM FOR COMPACTING EMBANKMENT.

I-49
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 5 OF 13

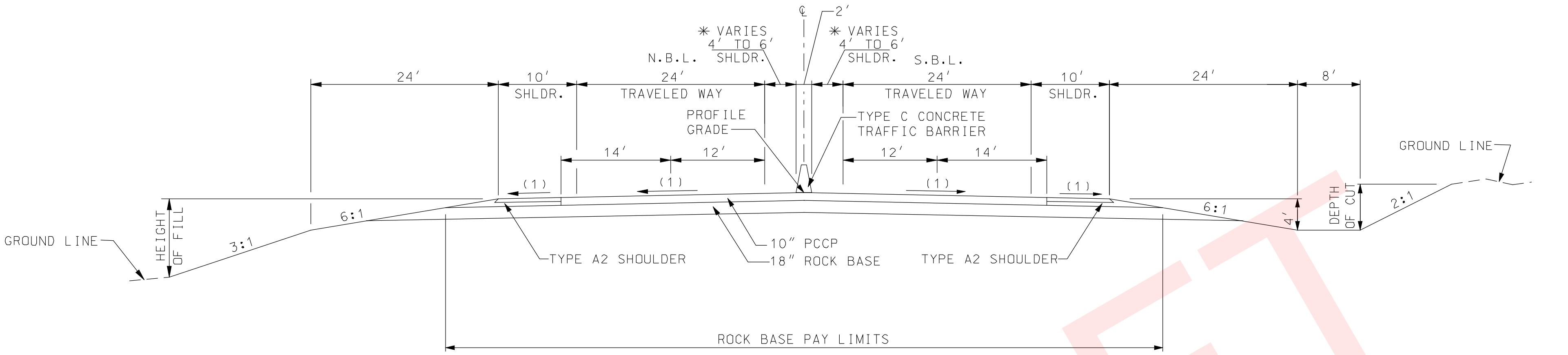
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

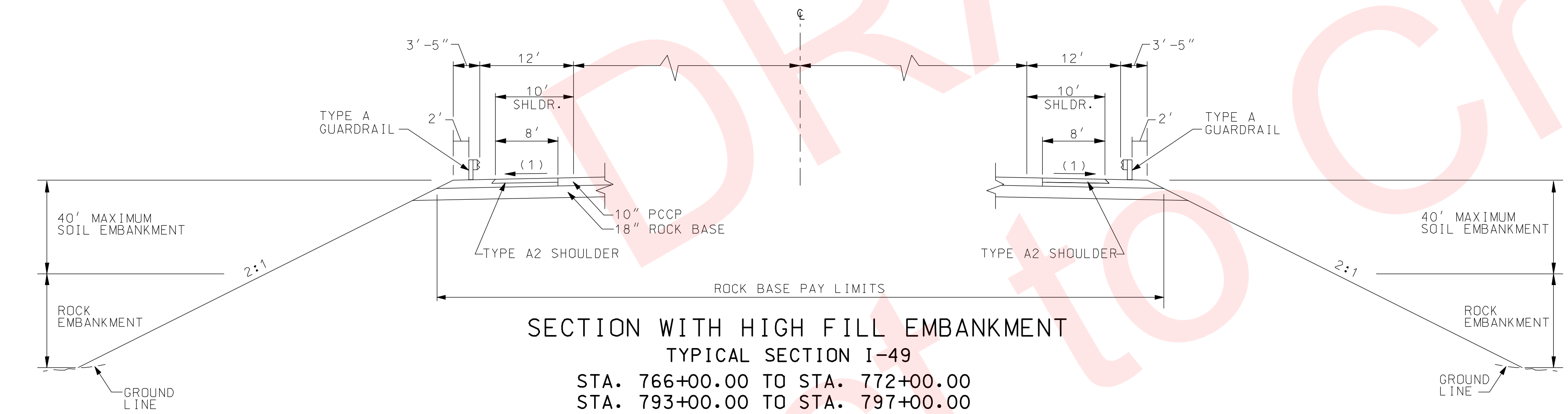
REV.



SECTION ON TANGENT

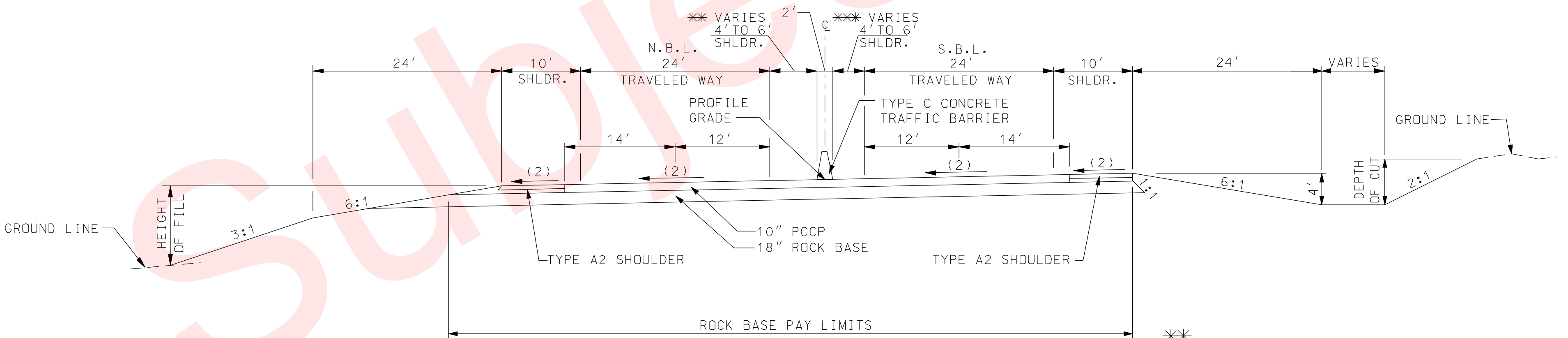
TYPICAL SECTION I-49
STA. 764+93.73 TO STA. 791+82.33
STA. 823+42.05 TO STA. 829+00.52
STA. 854+14.36 TO STA. 869+00.00
STA. 944+14.86 TO STA. 969+00.00

∗ TAPER 6' TO 4' FROM
STA. 765+00.00 TO STA. 768+00.00



SECTION WITH HIGH FILL EMBANKMENT

TYPICAL SECTION I-49
STA. 766+00.00 TO STA. 772+00.00
STA. 793+00.00 TO STA. 797+00.00
STA. 840+00.00 TO STA. 848+00.00
STA. 935+00.00 TO STA. 938+00.00
STA. 983+00.00 TO STA. 987+32.82



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION I-49
STA. 791+82.33 TO STA. 823+42.05
STA. 829+00.52 TO STA. 854+14.36

∗∗ TAPER 4' TO 6' FROM STA. 791+66.73 TO STA. 794+66.73
TAPER 6' TO 4' FROM STA. 820+57.65 TO STA. 823+57.65
∗∗∗ TAPER 4' TO 6' FROM STA. 828+84.92 TO STA. 831+84.92
TAPER 6' TO 4' FROM STA. 851+29.96 TO STA. 854+21.96

I-49 NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
764+93.73		← -2.0% ℄ -2.0% → ; 10' 12' 12' 7' 7' 12' 12' 10'	NORMAL SLOPE
791+82.33	A-A	← -2.0% ℄ -2.0% → ; 10' 12' 12' 5.10' 5' 12' 12' 10'	NORMAL SLOPE
792+90.33	B-B	0.0% ℄ -2.0% → ; 10' 12' 12' 5.82' 5' 12' 12' 10'	
793+98.33	C-C	→ -2.0% ℄ -2.0% → ; 10' 12' 12' 6.54' 5' 12' 12' 10'	REVERSE CROWN
795+54.93	D-D	→ -4.9% ℄ -4.9% → ; 10' 12' 12' 7' 5' 12' 12' 10'	FULL SUPER
819+69.45	D-D	→ -4.9% ℄ -4.9% → ; 10' 12' 12' 7' 5' 12' 12' 10'	FULL SUPER
821+26.05	C-C	→ -2.0% ℄ -2.0% → ; 10' 12' 12' 6.54' 5' 12' 12' 10'	REVERSE CROWN
822+34.05	B-B	0.0% ℄ -2.0% → ; 10' 12' 12' 5.82' 5' 12' 12' 10'	
823+42.05	A-A	← -2.0% ℄ -2.0% → ; 10' 12' 12' 5.10' 5' 12' 12' 10'	NORMAL SLOPE
829+00.52	A-A	← -2.0% ℄ -2.0% → ; 10' 12' 12' 5' 5.10' 12' 12' 10'	NORMAL SLOPE
830+08.52	B-B	← -2.0% ℄ 0.0% ; 10' 12' 12' 5' 5.82' 12' 12' 10'	
831+16.52	C-C	← -2.0% ℄ ← -2.0% ; 10' 12' 12' 5' 6.54' 12' 12' 10'	REVERSE CROWN
832+73.12	D-D	← -4.9% ℄ ← -4.9% ; 10' 12' 12' 5' 7' 12' 12' 10'	FULL SUPER
850+41.76	D-D	← -4.9% ℄ ← -4.9% ; 10' 12' 12' 5' 7' 12' 12' 10'	FULL SUPER
851+98.36	C-C	← -2.0% ℄ ← -2.0% ; 10' 12' 12' 5' 6.54' 12' 12' 10'	REVERSE CROWN
853+06.36	B-B	← -2.0% ℄ 0.0% ; 10' 12' 12' 5' 5.82' 12' 12' 10'	
854+14.36	A-A	← -2.0% ℄ -2.0% → ; 10' 12' 12' 5' 5.10' 12' 12' 10'	NORMAL SLOPE
874+95.92	A-A	← -2.0% ℄ -2.0% → ; 10' 12' 12' 6.69' 6.69' 12' 12' 10'	NORMAL SLOPE
876+03.92	B-B	← -2.0% ℄ 0.0% ; 10' 12' 12' 5.97 5.97' 12' 12' 10'	
877+11.92	C-C	← -2.0% ℄ ← -2.0% ; 10' 12' 12' 5.25' 5.25' 12' 12' 10'	REVERSE CROWN
941+98.86	C-C	← -2.0% ℄ ← -2.0% -2.0% → ; 10' 12' 12' 5' 5' 12' 12' 10'	REVERSE CROWN
943+06.86	B-B	← -2.0% ℄ 0.0% -2.0% → ; 10' 12' 12' 5' 5' 12' 12' 10'	
944+14.86	A-A	← -2.0% ℄ -2.0% → ; 10' 12' 12' 5' 5' 12' 12' 10'	NORMAL SLOPE

CROSS SLOPE

(1) 2.0%

(2) S.E. SLOPE IF GREATER THAN 2.0%

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

PLACING OF ROCK EMBANKMENT SHALL BE INCLUDED IN THE PAY ITEM FOR COMPACTING EMBANKMENT.

I-49
ALTERNATE B (CONCRETE)
TYPICAL SECTION
SHEET 6 OF 13

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

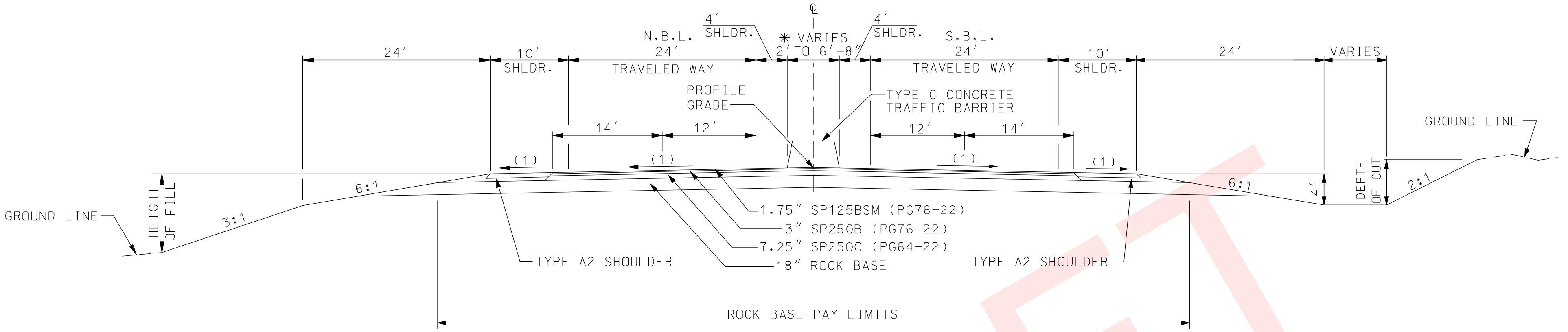
DESCRIPTION

DATE

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

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

REV.

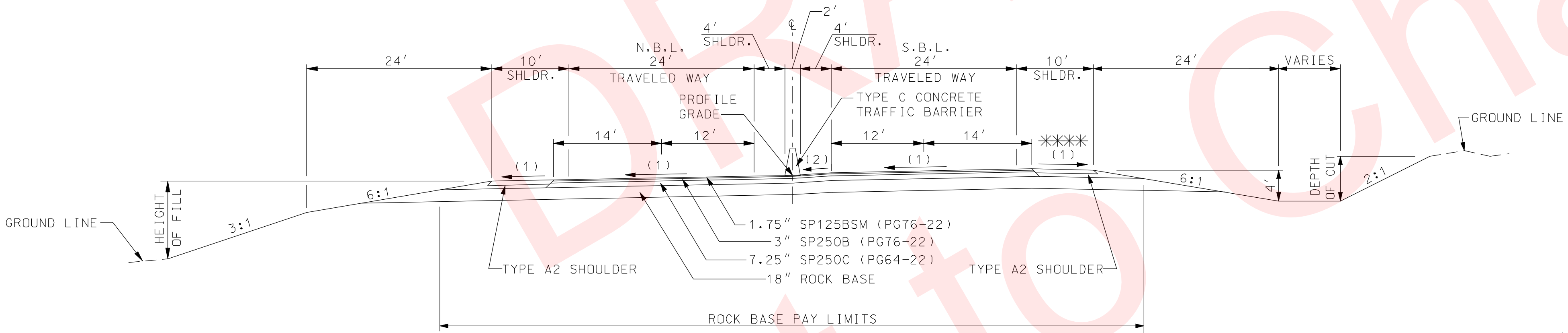


SECTION ON TANGENT

TYPICAL SECTION I-49

STA. 869+00.00 TO STA. 877+50.00

* TAPER 2' TO 6'-8" FROM STA. 869+00.00 TO STA. 872+50.00
TAPER 6'-8" TO 2' FROM STA. 874+00.00 TO STA. 877+50.00



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION I-49

STA. 877+50.00 TO STA. 944+14.86

**** MATCH S.E. SLOPE FROM STA. 877+50.00 TO STA. 887+77.39

CROSS SLOPE

(1) 2.0% (SEE TABLE FOR S.E. TRANSITION FROM STA. 874+95.92 TO STA. 877+11.92)

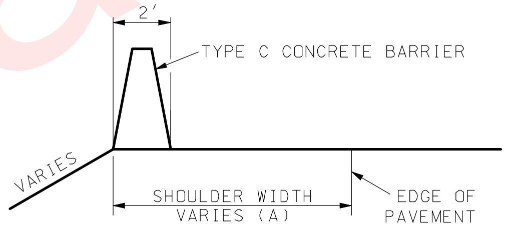
(2) 6.0% (TRANSITION FROM 2.0% TO 6.0% FROM STA. 877+50.00 TO STA. 878+00.00 AND TRANSITION FROM 6.0% TO 2.0% FROM STA. 941+48.86 TO STA. 941+98.86)

(3) SLOPE 2.0% TOWARD PAVEMENT FROM STA. 969+00.00 TO STA. 979+50.00. TRANSITION FROM SLOPE 2.0% TOWARD PAVEMENT AT STA. 979+50.00 TO SLOPE 2.0% TOWARD MEDIAN AT STA. 981+00.00. SLOPE 2.0% TOWARD MEDIAN FROM STA. 981+00.00 TO STA. 987+32.82.

NOTES:

SEE STANDARDS 203.20, 203.21, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.



** LT SHOULDER WIDENING FOR CONCRETE BARRIER

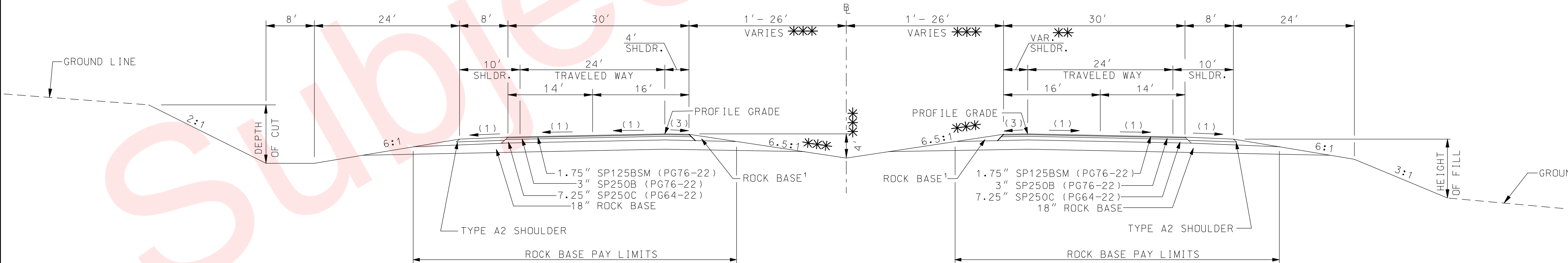
I-49 S.B.L. LT

STA. 969+00.00 TO STA. 987+32.82

(A)[1] TAPER 6' TO 7'-3" FROM STA. 969+00.00 TO STA. 979+50.00

(A)[2] AT STA. 979+50.00 SHLDR. DROPS BACK TO 5'-3" AND TAPERS TO 4' AT STA. 981+00.00

(A)[3] WIDTH = 4' FROM STA.981+00.00 TO STA. 987+32.82.



*** TRANSITION MEDIAN WIDTH:
FROM 2' AT STA. 969+00.0 TO 52' AT STA. 986+00.00
TRANSITION MEDIAN DEPTH:
FROM 0' AT STA. 969+00.00 TO 4' AT STA. 980+00.00
MEDIAN SLOPE: 4:1 FROM STA. 969+00.00 TO STA. 979+50.00
TRANSITION FROM 4:1 AT STA. 979+50.00 TO 6.5:1 AT STA. 986+00.00

SECTION ON TANGENT

TYPICAL SECTION I-49

STA. 969+00.00 TO STA. 987+32.82

[1] NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

I-49
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 7 OF 13

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	2
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

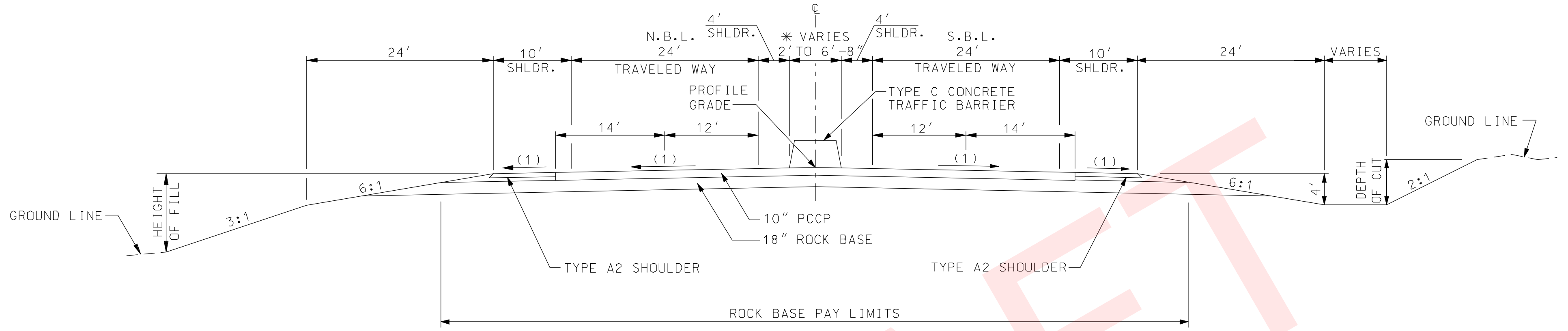
DESCRIPTION

DATE

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

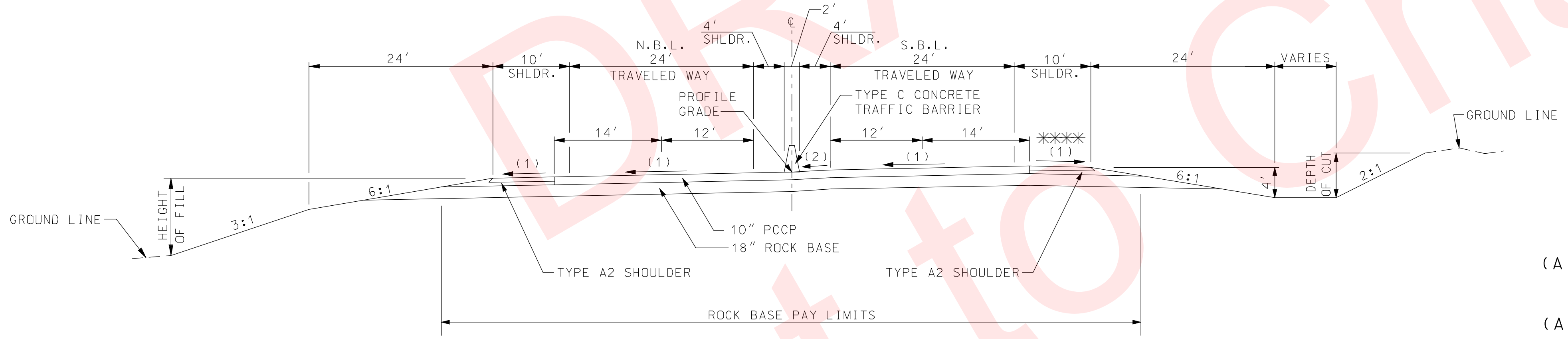
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



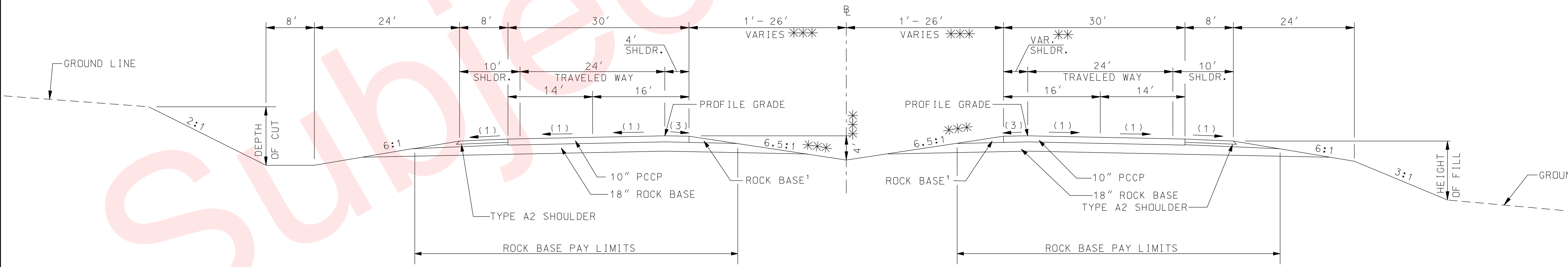
SECTION ON TANGENT
TYPICAL SECTION I-49
STA. 869+00.00 TO STA. 877+50.00

* TAPER 2′ TO 6′-8″ FROM STA. 869+00.00 TO STA. 872+50.00
TAPER 6′-8″ TO 2′ FROM STA. 874+00.00 TO STA. 877+50.00



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION I-49
STA. 877+50.00 TO STA. 944+14.86

**** MATCH S.E. SLOPE FROM STA. 877+50.00 TO STA. 887+77.39



*** TRANSITION MEDIAN WIDTH:
FROM 2′ AT STA. 969+00.0 TO 52′ AT STA. 986+00.00
TRANSITION MEDIAN DEPTH:
FROM 0′ AT STA. 969+00.00 TO 4′ AT STA. 980+00.00
MEDIAN SLOPE: 4:1 FROM STA. 969+00.00 TO STA. 979+50.00
TRANSITION FROM 4:1 AT STA. 979+50.00 TO 6.5:1 AT STA. 986+00.00

SECTION ON TANGENT
TYPICAL SECTION I-49
STA. 969+00.00 TO STA. 987+32.82

[1] NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

CROSS SLOPE

(1) 2.0% (SEE TABLE FOR S.E. TRANSITION FROM STA. 874+95.92 TO STA. 877+11.92)

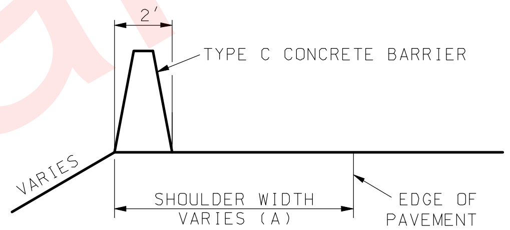
(2) 6.0% (TRANSITION FROM 2.0% TO 6.0% FROM STA. 877+50.00 TO STA. 878+00.00 AND TRANSITION FROM 6.0% TO 2.0% FROM STA. 941+48.86 TO STA. 941+98.86)

(3) SLOPE 2.0% TOWARD PAVEMENT FROM STA. 969+00.00 TO STA. 979+50.00. TRANSITION FROM SLOPE 2.0% TOWARD PAVEMENT AT STA. 979+50.00 TO SLOPE 2.0% TOWARD MEDIAN AT STA. 981+00.00. SLOPE 2.0% TOWARD MEDIAN FROM STA. 981+00.00 TO STA. 987+32.82.

NOTES:

SEE STANDARDS 203.20, 203.21, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.



** LT SHOULDER WIDENING FOR CONCRETE BARRIER
I-49 S.B.L. LT

STA. 969+00.00 TO STA. 987+32.82

$(A)^1$ TAPER 6′ TO 7′-3″ FROM STA. 969+00.00 TO STA. 979+50.00

$(A)^2$ AT STA. 979+50.00 SHLDR. DROPS BACK TO 5′-3″ AND TAPERS TO 4′ AT STA. 981+00.00

$(A)^3$ WIDTH = 4′ FROM STA.981+00.00 TO STA. 987+32.82.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	2
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

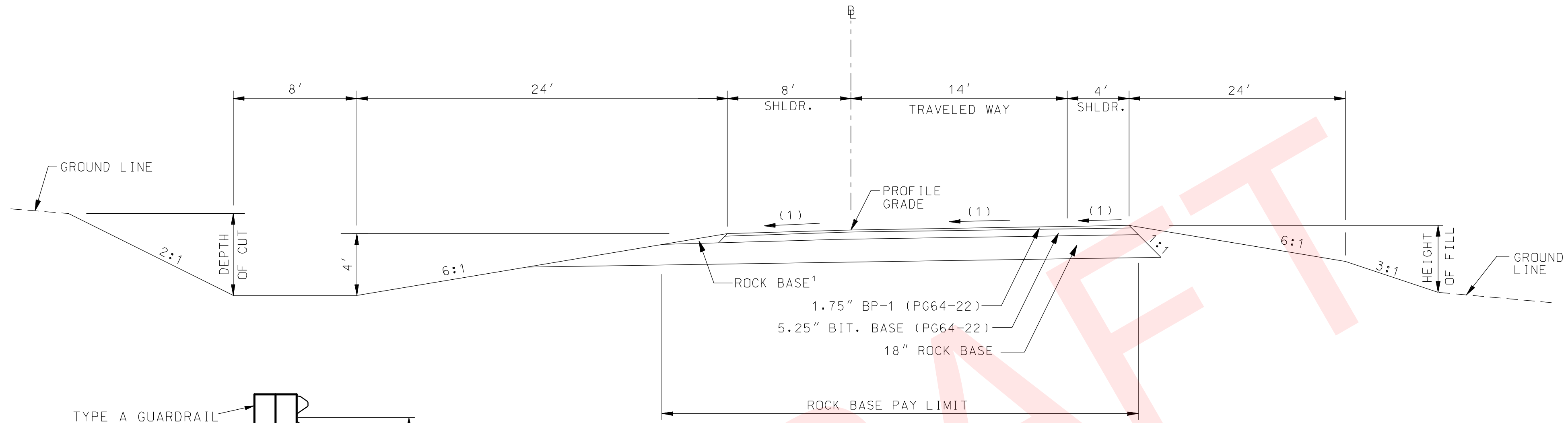
DATE

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

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

REV.

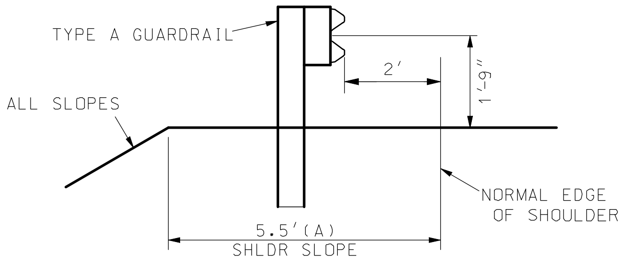
I-49
ALTERNATE B (CONCRETE)
TYPICAL SECTION
SHEET 8 OF 13



SECTION ON TANGENT AND SUPERELEVATION CURVE

TYPICAL SECTION

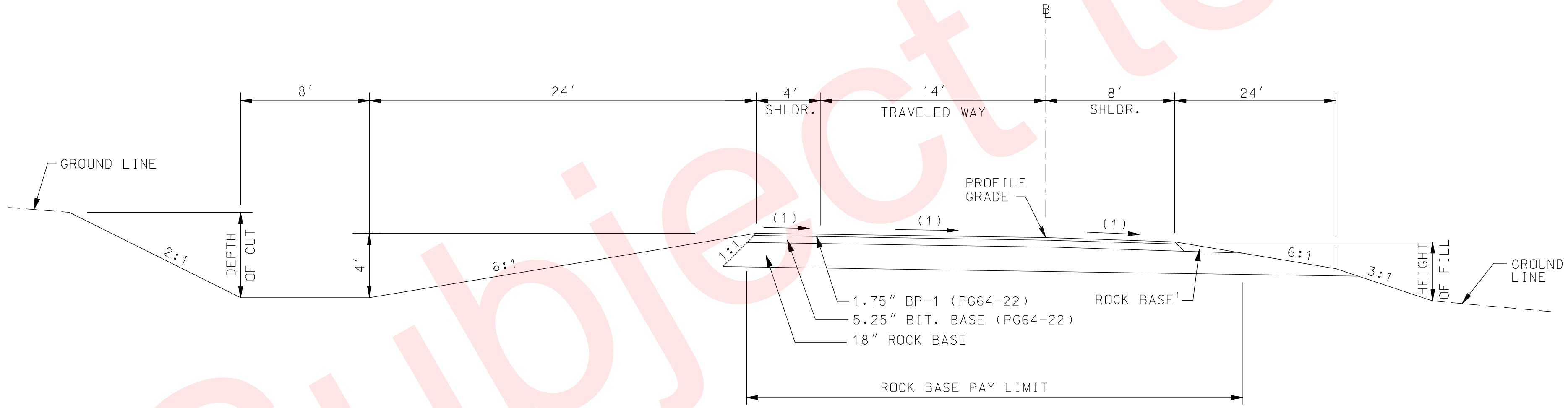
RAMP 1 STA. 1003+22.28 TO STA. 1015+67.89
RAMP 3 STA. 3000+12.06 TO STA. 3017+79.76



LT SHOULDER WIDENING FOR GUARDRAIL

RAMP 3 LT
STA. 3000+12.06 TO STA. 3017+79.76

(A) TAPER 0' TO 5.5' FROM
STA. 2000+12.06 TO STA. 3000+80.00



SECTION ON TANGENT AND SUPERELEVATION CURVE

TYPICAL SECTION

RAMP 2 STA. 2003+75.64 TO STA. 2018+25.32
RAMP 4 STA. 4000+11.97 TO STA. 4015+00.89

CROSS SLOPE
(1) SEE S.E. TABLE

[1] NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

RAMP 1 NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
1000+00.00	G-G	-2.0%	BEGIN SUPER RUNOFF
1001+86.13	H-H	-5.0%	BEGIN FULL SUPER
1006+76.41	H-H	-5.0%	END FULL SUPER
1008+09.41	G-G	-2.0%	END SUPER RUNOFF
1015+67.89		-0.52%	

RAMP 2 NORMAL SUPERELEVATION TRANSITION

		SECTION	REMARKS
2000+00.00	G-G	-2.0%	BEGIN SUPER RUNOFF
2003+22.39	H-H	-5.0%	BEGIN FULL SUPER
2005+16.69	H-H	-5.0%	END FULL SUPER
2006+49.69	G-G	-2.0%	END SUPER RUNOFF
2018+25.32		-0.52%	

RAMP 3 NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
3000+12.06		-0.52%	
3013+15.62	G-G	-2.0%	BEGIN SUPER RUNOFF
3014+48.62	H-H	-5.0%	BEGIN FULL SUPER
3018+38.22	H-H	-5.0%	END FULL SUPER
3022+11.42	G-G	-2.0%	END SUPER RUNOFF

RAMP 4 NORMAL SUPERELEVATION TRANSITION

STATION		SECTION	REMARKS
4000+11.97		-0.52%	
4012+00.65	G-G	-2.0%	BEGIN SUPER RUNOFF
4012+72.65	H-H	-2.7%	BEGIN FULL SUPER
4016+59.91	H-H	-2.7%	END FULL SUPER
4018+77.22	G-G	-2.0%	END SUPER RUNOFF

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

RAMPS 1,2,3 & 4 AT ROUTE 90

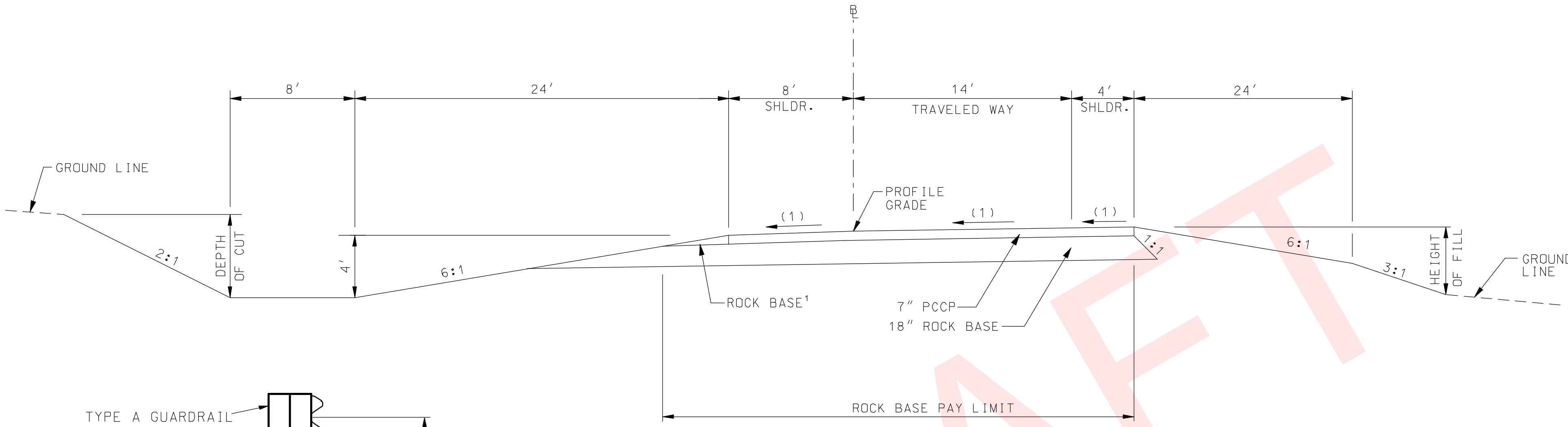
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 9 OF 13

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY McDONALD	
JOB NO. J7P0601	
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)

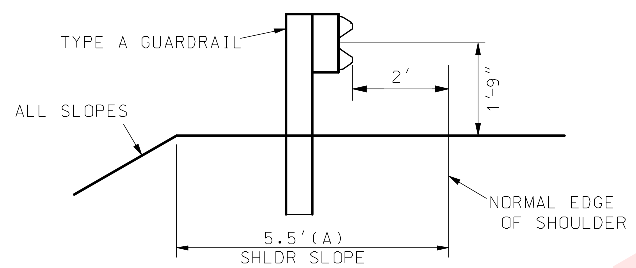
REV.



SECTION ON TANGENT AND SUPERELEVATION CURVE

TYPICAL SECTION

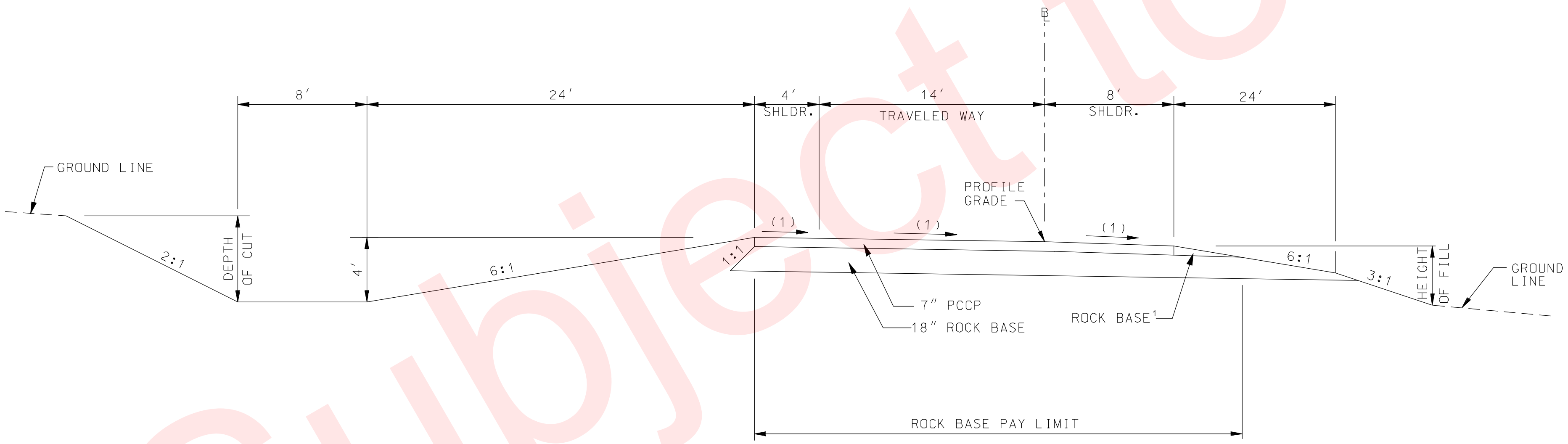
RAMP 1 STA. 1003+22.28 TO STA. 1015+67.89
RAMP 3 STA. 3000+12.06 TO STA. 3017+79.76



LT SHOULDER WIDENING FOR GUARDRAIL

RAMP 3 LT
STA. 3000+12.06 TO STA. 3017+79.76

(A) TAPER 0′ TO 5.5′ FROM
STA. 2000+12.06 TO STA. 3000+80.00



SECTION ON TANGENT AND SUPERELEVATION CURVE

TYPICAL SECTION

RAMP 2 STA. 2003+75.64 TO STA. 2018+25.32
RAMP 4 STA. 4000+11.97 TO STA. 4015+00.89

CROSS SLOPE

(1) SEE S.E. TABLE

¹ NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

RAMP 1 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
1000+00.00	G-G	-2.0%	BEGIN SUPER RUNOFF
1001+86.13	H-H	-5.0%	BEGIN FULL SUPER
1006+76.41	H-H	-5.0%	END FULL SUPER
1008+09.41	G-G	-2.0%	END SUPER RUNOFF
1015+67.89		-0.52%	

RAMP 2 NORMAL SUPERELEVATION TRANSITION			
		SECTION	REMARKS
2000+00.00	G-G	-2.0%	BEGIN SUPER RUNOFF
2003+22.39	H-H	-5.0%	BEGIN FULL SUPER
2005+16.69	H-H	-5.0%	END FULL SUPER
2006+49.69	G-G	-2.0%	END SUPER RUNOFF
2018+25.32		-0.52%	

RAMP 3 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
3000+12.06		-0.52%	
3013+15.62	G-G	-2.0%	BEGIN SUPER RUNOFF
3014+48.62	H-H	-5.0%	BEGIN FULL SUPER
3018+38.22	H-H	-5.0%	END FULL SUPER
3022+11.42	G-G	-2.0%	END SUPER RUNOFF

RAMP 4 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
4000+11.97		-0.52%	
4012+00.65	G-G	-2.0%	BEGIN SUPER RUNOFF
4012+72.65	H-H	-2.7%	BEGIN FULL SUPER
4016+59.91	H-H	-2.7%	END FULL SUPER
4018+77.22	G-G	-2.0%	END SUPER RUNOFF

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

RAMPS 1,2,3 & 4 AT ROUTE 90

ALTERNATE B (CONCRETE)
TYPICAL SECTION
SHEET 10 OF 13

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 2
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

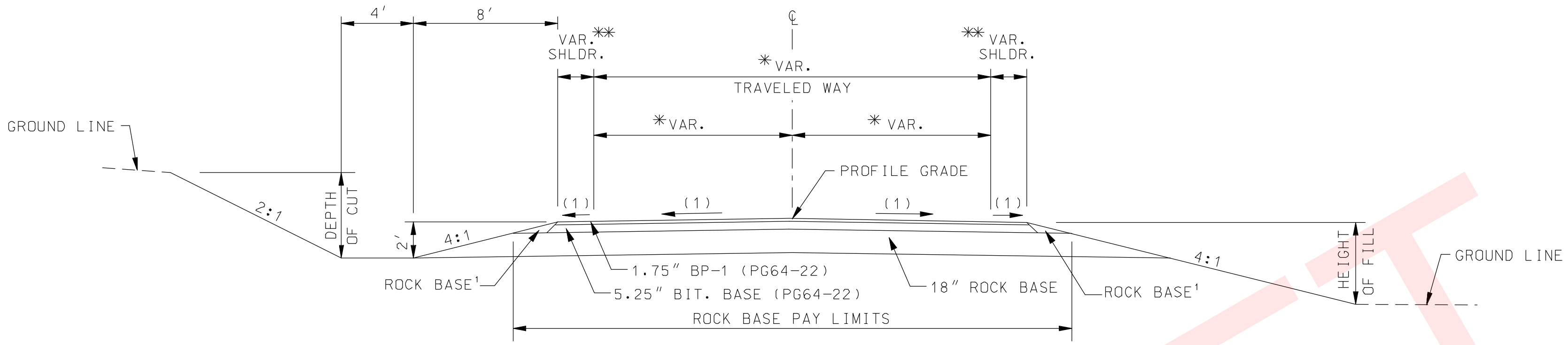
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



SECTION ON TANGENT

TYPICAL SECTION ROUTE 90

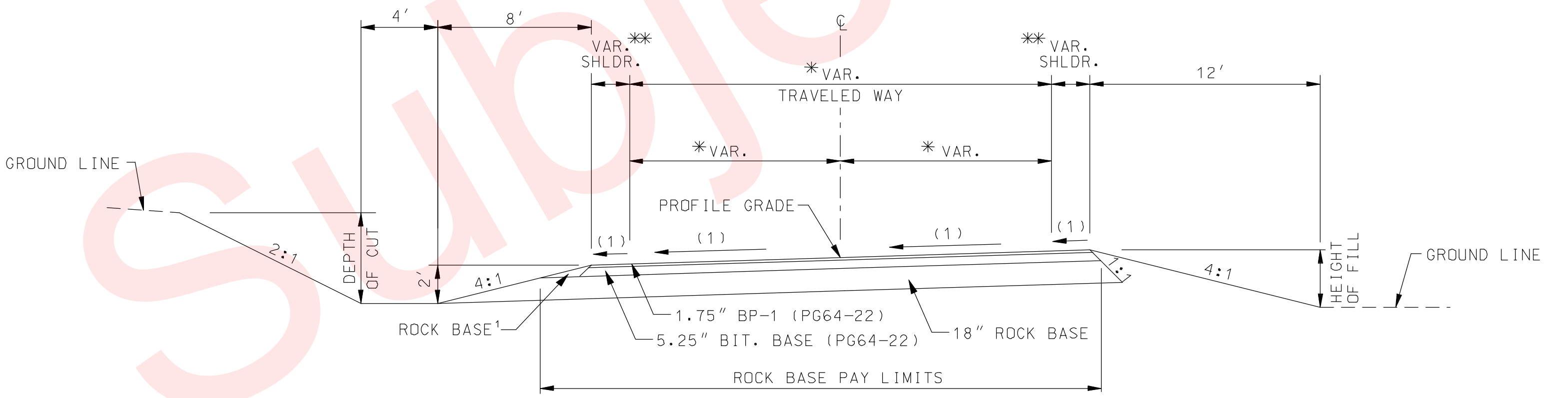
STA. 43+25.00 TO STA. 46+56.09
STA. 55+36.31 TO STA. 58+91.18

*LANE WIDTHS:

TAPER 10' TO 11' FROM STA. 43+25.00 TO STA. 44+25.00 LT. AND RT.
11' FROM STA. 44+25.00 TO STA. 45+55.19 LT.
STA. 44+25.00 TO STA. 45+59.51 RT.
TAPER 11' TO 12' FROM STA. 45+55.19 TO STA. 47+17.39 LT.
STA. 45+59.51 TO STA. 47+26.57 RT.
12' FROM STA. 47+17.39 TO STA. 52+84.10 LT.
STA. 47+26.57 TO STA. 52+72.60 RT.
TAPER 12' TO 11' FROM STA. 52+84.10 TO STA. 54+65.99 LT.
STA. 52+72.60 TO STA. 54+32.77 RT.
11' FROM STA. 54+65.99 TO STA. 60+00.00 LT.
STA. 54+32.77 TO STA. 60+00.00 RT.
TAPER 11' TO 10' FROM STA. 60+00.00 TO SA. 61+00.00 LT. AND RT.

**SHOULDER WIDTHS:

2' FROM STA. 43+25.00 TO STA. 45+24.40 LT.
STA. 43+25.00 TO STA. 45+28.72 RT.
TAPER 2' TO 4' FROM STA. 45+24.40 TO STA. 47+18.55 LT.
STA. 45+28.72 TO STA. 47+27.73 RT.
4' FROM STA. 47+18.55 TO STA. 52+83.00 LT.
STA. 47+27.73 TO STA. 52+71.44 RT.
TAPER 4' TO 2' FROM STA. 52+83.00 TO STA. 54+96.78 LT.
STA. 52+71.44 TO STA. 54+63.56 RT.
2' FROM STA. 54+96.78 TO STA. 61+00.00 LT.
STA. 54+63.56 TO STA. 61+00.00 RT.



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION ROUTE 90

STA. 46+56.09 TO STA. 48+71.50
STA. 51+33.00 TO STA. 55+36.31
STA. 58+91.18 TO STA. 61+00.00

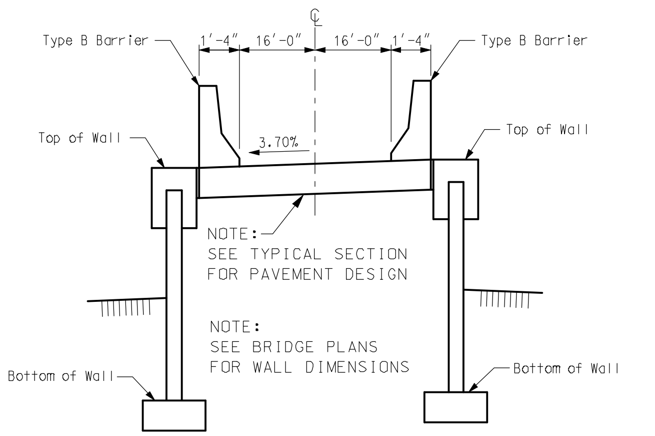
CROSS SLOPE

(1) SEE S.E. TABLE BELOW

¹ NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

ROUTE 90 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
43+25.00		-2.0% ℄ -2.0%; 2' 10' 10' 2'	MATCH EXIST. SUPER
46+56.09	A-A	-2.0% ℄ -2.0%; 3.36' 11.62' 11.58' 3.28'	BEGIN TANGENT RUNOFF
47+04.20	B-B	-2.0% ℄ 0.0%; 3.85' 11.92' 11.87' 3.76'	BEGIN SUPER RUNOFF
47+52.31	C-C	-2.0% ℄ +2.0%; 4' 12' 12' 4'	REVERSE CROWN
47+93.20	D-D	-3.7% ℄ +3.7%; 4' 12' 12' 4'	BEGIN FULL SUPER
53+99.20	D-D	-3.7% ℄ +3.7%; 2.91' 11.37' 11.21' 2.67'	END FULL SUPER
54+40.09	C-C	-2.0% ℄ +2.0%; 2.24' 11.14' 11' 2.24'	REVERSE CROWN
54+88.20	B-B	-2.0% ℄ 0.0%; 2.08' 11' 11' 2'	END SUPER RUNOFF
55+36.31	A-A	-2.0% ℄ -2.0%; 2' 11' 11' 2'	BEGIN TANGENT
58+91.18	A-A	-2.0% ℄ -2.0%; 2' 11' 11' 2'	BEGIN TANGENT RUNOFF
59+39.72	B-B	-2.0% ℄ 0.0%; 2' 11' 11' 2'	BEGIN SUPER RUNOFF
59+88.26	C-C	-2.0% ℄ +2.0%; 2' 11' 11' 2'	REVERSE CROWN
60+22.72	D-D	-3.42% ℄ +3.42%; 2' 10.77' 10.77' 2'	BEGIN FULL SUPER
61+00.00		-3.42% ℄ +3.42%; 2' 10' 10' 2'	MATCH EXIST. SUPER

MSE WALL DETAIL



STA. 48+71.50 TO STA. 49+19.25
STA. 50+85.76 TO STA. 51+33.00

NOT TO SCALE

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

ROUTE 90
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 11 OF 13

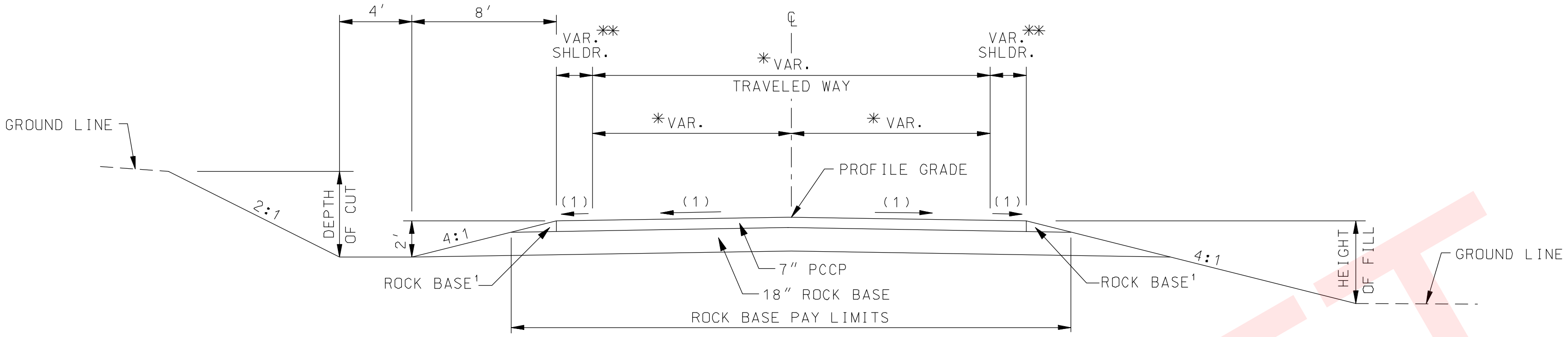
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	2
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



SECTION ON TANGENT

TYPICAL SECTION ROUTE 90

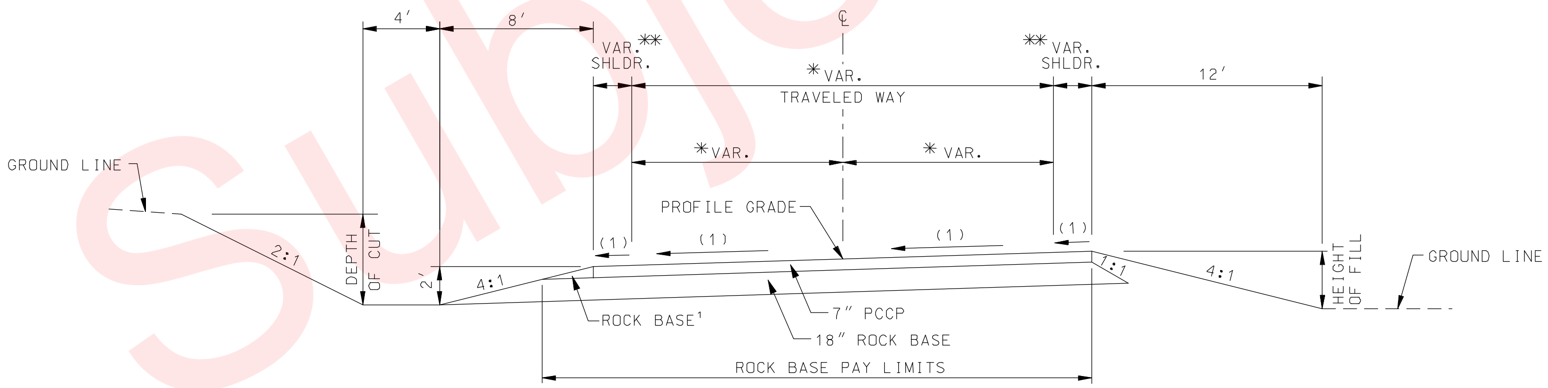
STA. 43+25.00 TO STA. 46+56.09
STA. 55+36.31 TO STA. 58+91.18

*LANE WIDTHS:

TAPER 10′ TO 11′ FROM STA. 43+25.00 TO STA. 44+25.00 LT. AND RT.
11′ FROM STA. 44+25.00 TO STA. 45+55.19 LT.
STA. 44+25.00 TO STA. 45+59.51 RT.
TAPER 11′ TO 12′ FROM STA. 45+55.19 TO STA. 47+17.39 LT.
STA. 45+59.51 TO STA. 47+26.57 RT.
12′ FROM STA. 47+17.39 TO STA. 52+84.10 LT.
STA. 47+26.57 TO STA. 52+72.60 RT.
TAPER 12′ TO 11′ FROM STA. 52+84.10 TO STA. 54+65.99 LT.
STA. 52+72.60 TO STA. 54+32.77 RT.
11′ FROM STA. 54+65.99 TO STA. 60+00.00 LT.
STA. 54+32.77 TO STA. 60+00.00 RT.
TAPER 11′ TO 10′ FROM STA. 60+00.00 TO SA. 61+00.00 LT. AND RT.

**SHOULDER WIDTHS:

2′ FROM STA. 43+25.00 TO STA. 45+24.40 LT.
STA. 43+25.00 TO STA. 45+28.72 RT.
TAPER 2′ TO 4′ FROM STA. 45+24.40 TO STA. 47+18.55 LT.
STA. 45+28.72 TO STA. 47+27.73 RT.
4′ FROM STA. 47+18.55 TO STA. 52+83.00 LT.
STA. 47+27.73 TO STA. 52+71.44 RT.
TAPER 4′ TO 2′ FROM STA. 52+83.00 TO STA. 54+96.78 LT.
STA. 52+71.44 TO STA. 54+63.56 RT.
2′ FROM STA. 54+96.78 TO STA. 61+00.00 LT.
STA. 54+63.56 TO STA. 61+00.00 RT.



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION ROUTE 90

STA. 46+56.09 TO STA. 48+71.50
STA. 51+33.00 TO STA. 55+36.31
STA. 58+91.18 TO STA. 61+00.00

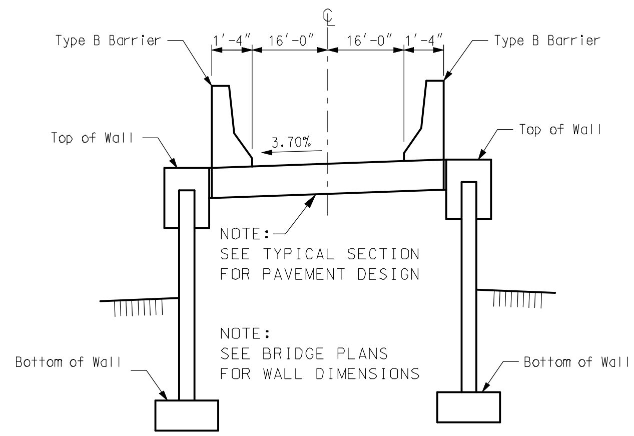
CROSS SLOPE

(1) SEE S.E. TABLE BELOW

¹ NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

ROUTE 90 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
43+25.00		−2.0% ℄ −2.0%; 2′ 10′ 10′ 2′	MATCH EXIST. SUPER
46+56.09	A-A	−2.0% ℄ −2.0%; 3.36′ 11.62′ 11.58′ 3.28′	BEGIN TANGENT RUNOFF
47+04.20	B-B	−2.0% ℄ 0.0%; 3.85′ 11.92′ 11.87′ 3.76′	BEGIN SUPER RUNOFF
47+52.31	C-C	−2.0% ℄ +2.0%; 4′ 12′ 12′ 4′	REVERSE CROWN
47+93.20	D-D	−3.7% ℄ +3.7%; 4′ 12′ 12′ 4′	BEGIN FULL SUPER
53+99.20	D-D	−3.7% ℄ +3.7%; 2.91′ 11.37′ 11.21′ 2.67′	END FULL SUPER
54+40.09	C-C	−2.0% ℄ +2.0%; 2.24′ 11.14′ 11′ 2.24′	REVERSE CROWN
54+88.20	B-B	−2.0% ℄ 0.0%; 2.08′ 11′ 11′ 2′	END SUPER RUNOFF
55+36.31	A-A	−2.0% ℄ −2.0%; 2′ 11′ 11′ 2′	BEGIN TANGENT
58+91.18	A-A	−2.0% ℄ −2.0%; 2′ 11′ 11′ 2′	BEGIN TANGENT RUNOFF
59+39.72	B-B	−2.0% ℄ 0.0%; 2′ 11′ 11′ 2′	BEGIN SUPER RUNOFF
59+88.26	C-C	−2.0% ℄ +2.0%; 2′ 11′ 11′ 2′	REVERSE CROWN
60+22.72	D-D	−3.42% ℄ +3.42%; 2′ 10.77′ 10.77′ 2′	BEGIN FULL SUPER
61+00.00		−3.42% ℄ +3.42%; 2′ 10′ 10′ 2′	MATCH EXIST. SUPER

MSE WALL DETAIL



STA. 48+71.50 TO STA. 49+19.25
STA. 50+85.76 TO STA. 51+33.00

NOT TO SCALE

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET. THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

ROUTE 90
ALTERNATE B (CONCRETE)
TYPICAL SECTION
SHEET 12 OF 13

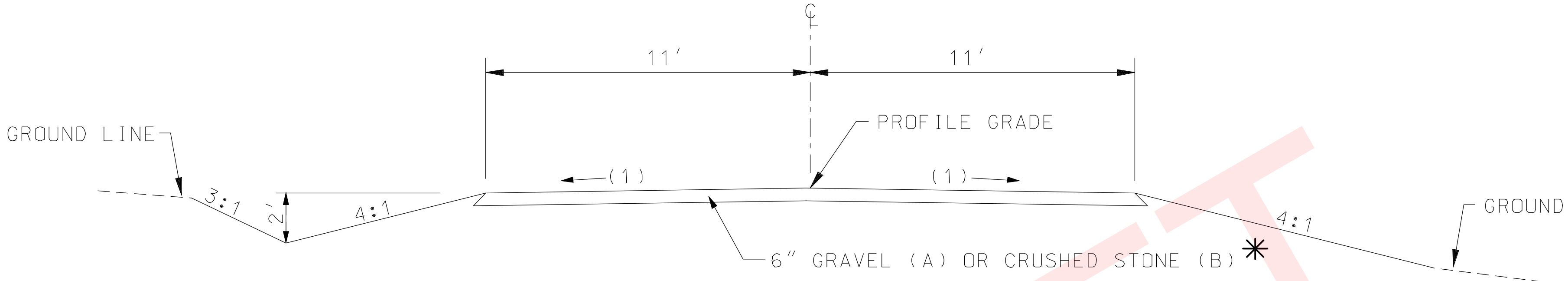
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	2
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

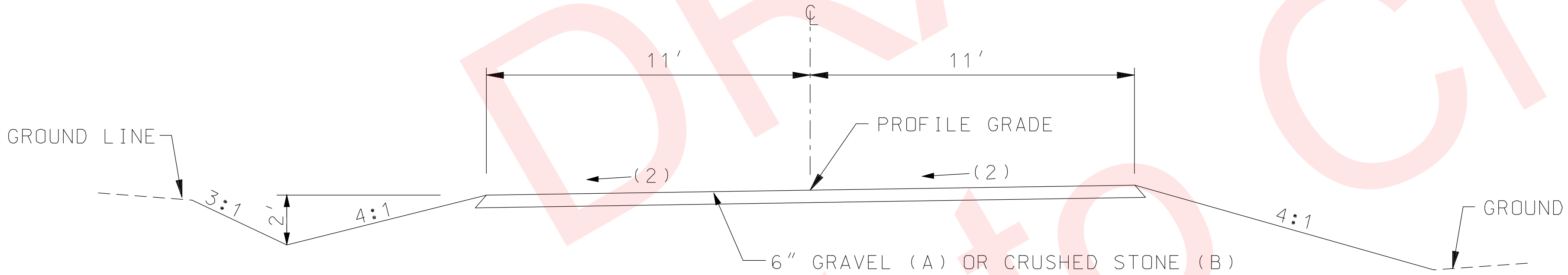
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



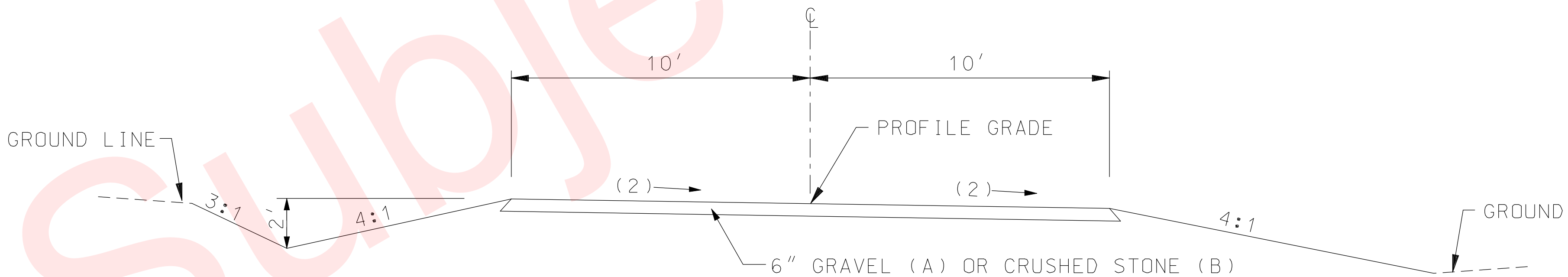
SECTION ON TANGENT

KELLEY CO. RD. - STA. 700+50.00 TO STA. 710+74.13
SUMNER CO. RD. - STA. 700+00.00 TO STA. 710+10.20
✳SUMNER CO. RD. - STA. 710+10.20 TO STA. 710+72.04 (PAVE WITH 1 $\frac{3}{4}$″ BP-1 OVER 4″ BIT. BASE OVER 4″ TYPE 5 AGG. BASE)



SECTION ON SUPERELEVATED CURVE

KELLEY CO. RD. - STA. 700+50.00 TO STA. 710+74.13
SUMNER CO. RD. - STA. 700+00.00 TO STA. 710+72.04



SECTION ON SUPERELEVATED CURVE

GARDNER PRIVATE ROAD STA. 0+00.00 TO STA. 1+59.37

CROSS SLOPE
(1) 2.0%
(2) S.E. SLOPE IF GREATER THAN 2%

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET. THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

KELLEY ROAD, SUMNER ROAD & GARDNER PRIVATE ROAD
ALTERNATE A & B (AGGR.)
TYPICAL SECTION
SHEET 13 OF 13

DATE PREPARED	
02/04/2010	
ROUTE: 49	STATE: MO
DISTRICT: 7	SHEET NO.: 2
COUNTY: McDONALD	
JOB NO.: J7P0601	
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)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS

SHEET	STATION	LOCATION	QTY.	DESCRIPTION / REMARKS
82	693+22	RTE 71	1	SIGN TRUSS (BOX TRUSS, COLUMNS, FOOTINGS, SIGNS)
82	719+62	RTE 71 SBL	1	SIGN TRUSS (BOX TRUSS, COLUMNS, FOOTINGS, SIGNS)
4	716+40.39	I-49 SBL, 5 RT	1	IMPACT ATTENUATOR
4	716+57.46 - 724+00.54	US71 SBL, 44 RT-38 RT	1	CONCRETE BARRIER
4	724+00.00 - 725+00.00	US71 SBL, 35 RT-34 RT	1	GUARDRAIL
33	43+92.65	RTE 90	1	PIPE
33	46+42.25	RTE 90, 26 LT	1	PIPE
33	50+17.20	RTE 90, 58 LT	1	PIPE
33	56+89.60	RTE 90, 45 LT	1	PIPE
33	59+51.75	RTE 90, 17 RT	1	PIPE
33	60+65.60	RTE 90	1	PIPE
78	693+22	I-49/RTE. 71 TRUSS	1	SIGN (20' X 9')
78	693+22	I-49/RTE. 71 TRUSS	1	SIGN (12' X 7')
78	694+80	I-49/RTE. 71 SBL	1	SIGN (4' X 5')
78	700+10	I-49/RTE. 71 SBL	1	SIGN (4' X4')
78	704+80	I-49/RTE. 71 SBL	1	SIGN (16' X 9')
78	719+62	I-49/RTE. 71 TRUSS	1	SIGN (19' X 10')
79	725+63	I-49 NBL	1	SIGN (12' X 6')
79	731+05	RTE. 71 NBL	1	SIGN (14' X 13')
79	736+42	RTE. 71 SBL	1	SIGN (3' X 4')
79	736+62	RTE. 71 SBL	1	SIGN (4' X 5')
33	55+38	RTE 90, 55 LT	1	SIGN
		TOTAL =	22	
		LUMP SUM =	1	

GUARDRAIL

SHEET	BEGIN STATION	END STATION	LOCATION	TYPE "A" LIN. FT.	END ANCHOR EACH	BRIDGE ANCHOR SECTION EACH	TRANSITION SECTION EACH	TYPE "A" CRASHWORTHY END TERMINAL EACH	REMARKS
4	730+00.00	731+00.00	US71 S.B.L. Rt.	100.0				1	G.R. CONTINUES FROM PREV. JOB
4, 7	737+74.83	740+93.58	I - 49 N.B.L. Lt.	300.0		1	1	1	BRIDGE A6380
4, 7	737+37.84	740+06.59	I - 49 N.B.L. Rt.	250.0		1	1	1	BRIDGE A6380
7	754+56.25	755+75.00	I - 49 S.B.L. Lt.	100.0				1	
4	723+47.87	728+00.00	I - 49 S.B.L. Rt.	450.0	1				G.R. CONTINUES FROM PREV. JOB
10	764+93.73	775+75.00	I-49 Lt.	1075.0	1			1	
13	793+00.00	800+75.52	I-49 Lt.	775.0	1			1	
15, 17	840+00.00	850+75.00	I-49 Lt.	1075.0	1			1	
27, 27	932+40.00	944+35.00	I-49 Lt.	1187.5	1			1	
31	982+40.00	987+32.82	I-49 Lt.	487.5	1				G.R. CONTINUES TO AHTD JOB
10	762+25.00	772+00.00	I-49 Rt.	975.0	1			1	I-49 SBL STA. TO I-49 STA.
10, 13	789+25.00	797+00.00	I-49 Rt.	775.0	1			1	
15	836+25.00	846+00.00	I-49 Rt.	975.0	1			1	
25, 27	930+14.82	940+60.00	I-49 Rt.	1050.0	1			1	
29, 31	977+65.01	987+32.82	I-49 Rt.	975.0				1	G.R. CONTINUES TO AHTD JOB
33	47+77.75	48+71.50	Rte. 90 Lt.	75.0		1	1	1	BRIDGE A7000
33	51+33.00	52+26.75	Rte. 90 Lt.	75.0		1	1	1	BRIDGE A7000
33	47+77.75	48+71.50	Rte. 90 Rt.	75.0		1	1	1	BRIDGE A7000
33	51+33.00	52+14.25	Rte. 90 Rt.	62.5		1	1	1	BRIDGE A7000
17, 21	3000+90.00	3017+84.34	Ramp 3 Lt.	1687.5	1			1	
			TOTAL =	12525.0	11	6	6	18	
			USE =	12525	11	6	6	18	

TYPE A2 SHOULDERS

SHEET	BEGIN STATION	END STATION	LENGTH (FT)	SHOULDER WIDTH (FT)	NUMBER SIDES	TYPE A2 SHOULDER (SQ. YD)	REMARKS
4	729+60.88	734+82.78	521.9	8	1	463.9	I-49 N.B. L.
7	737+95.47	756+50.00	1854.53	8	1	1648.5	I-49 N.B. L.
7, 10	756+50.00	767+20.00	1070.0	8	1	951.1	I-49 N.B. L.
4, 7	723+02.82	744+00.00	2097.18	8	1	1864.2	I-49 S.B. L.
7	744+00.00	764+93.73	2093.73	8	1	1861.1	I-49 S.B. L.
10	764+93.73	791+66.73	2673	8	2	4752.0	I-49
13	791+66.73	817+00.00	2533.27	8	2	4503.6	I-49
13, 15	817+00.00	843+00.00	2600	8	2	4622.2	I-49
15, 17	843+00.00	858+91.26	1591.26	8	2	2828.9	I-49, Ramp 2 Begins Rt.
17	858+91.26	860+63.03	171.77	8	1	152.7	I-49, Ramp 1 Begins Lt.
17	849+09.42	849+59.42		Area Analyzed	1	5.8	I-49 Lt., Ramp 1 Accel. Transition
17	849+14.32	849+64.32		Area Analyzed	1	5.3	I-49 Rt., Ramp 2 Decel. Transition
17	860+63.03	869+00.00	836.97	8	1	744.0	I-49, Lt. Between Ramps
17	860+77.82	869+00.00	822.18	8	1	730.8	I-49, Rt. Between Ramps
17, 21	869+00.00	885+00.00	1600	8	1	1422.2	I-49, Lt. Between Ramps
17, 21	869+00.00	885+00.00	1600	8	1	1422.2	I-49, Rt. Between Ramps
21	885+00.00	888+79.16	379.16	8	1	337.0	I-49, Lt. Between Ramps
21	885+00.00	887+77.39	277.39	8	1	246.6	I-49, Rt. Between Ramps
21	899+33.33	899+83.33		Area Analyzed	1	5.5	I-49 Rt., Ramp 4 Accel. Transition
21	900+44.87	900+94.87		Area Analyzed	1	5.6	I-49 Lt., Ramp 3 Decel. Transition
21	887+77.39	890+60.24	282.85	8	1	251.4	I-49, Gore Area Rt.
21	890+60.24	901+00.00	1039.76	8	2	1848.5	I-49
21, 25	901+00.00	922+00.00	2100	8	2	3733.3	I-49
25, 27	922+00.00	943+00.00	2100	8	2	3733.3	I-49
27, 29	943+00.00	969+00.00	2600	8	2	4622.2	I-49
29, 31	969+00.00	987+32.82	1832.82	8	2	3258.3	I-49
				TOTAL =		46020.3	
				USE =		46021.0	

SEEDING COOL SEASON MIXTURES
46.2 ACRES

SEEDING WARM SEASON MIXTURES
170.4 ACRES

MOBILIZATION
LUMP SUM = 1

TYPE 2 FIELD LABORATORY
LUMP SUM = 1

CONTRACTOR FURNISHED SURVEYING AND STAKING
LUMP SUM = 1

CLEARING AND GRUBBING
200 ACRES

PAVED DITCH

SHEET	STATION	TO	STATION	LOCATION	DEPTH (FT.)	BOTTOM WIDTH (FT.)	LENGTH (FT.)	INSLOPE	BACKSLOPE	AREA (S.Y.)	REMARKS
7	738+95.00	-	741+68.00	NBL - RT	1.5	6	273.00	3	2	427.6	
7	742+75.00	-	745+25.00	NBL - LT	2.2	8	250.00	3	2	552.1	
7	745+25.00	-	748+25.00	NBL - LT	1.4	8	300.00	3	2	518.5	
7	757+60.00	-	759+00.00	NBL - LT	1.4	4	140.00	3	2	308.2	
7	740+25.00	-	745+00.00	SBL - LT	1.7	8	475.00	3	2	906.6	
7	738+30.00	-	742+50.00	SBL - RT	1.0	8	420.00	3	2	625.3	
7	755+75.00	-	759+25.00	SBL - RT	1.0	6	350.00	3	2	443.3	
10	767+65.00	-	771+75.00	I-49 LT	4.5	8	410.00	2	2	1281.2	
13	791+25.00	-	793+00.00	I-49 LT	1.3	8	175.00	3	2	260.5	
13	796+00.00	-	798+00.00	I-49 RT	1.0	8	200.00	2	2	277.2	
15	829+75.00	-	832+07.00	I-49 RT	1.4	8	232.00	3	2	401.0	
15	830+66.00	-	832+50.00	I-49 LT	1.8	8	184.00	3	2	362.2	
15	832+07.00	-	835+70.00	I-49 RT	2.6	8	363.00	3	2	888.8	
15	842+50.00	-	845+35.00	I-49 LT	1.4	8	285.00	2	2	451.5	
15	842+70.00	-	846+50.00	I-49 RT	2.0	8	380.00	2	2	715.4	
17	848+76.00	-	853+00.00	I-49 LT	2.4	2	424.00	2	2	599.9	
17, 33	868+00.00	-	869+90.00	I-49 RT	2.0	8	190.00	3	2	396.8	
17, 33	874+00.00	-	875+00.00	I-49 LT	1.3	8	100.00	3	2	166.9	
21	896+25.00	-	897+60.00	I-49 RT	1.4	0	135.00	3	2	113.4	
21	897+60.00	-	900+30.00	I-49 RT	1.4	4	270.00	3	2	346.7	
21	898+25.00	-	899+50.00	I-49 LT	1.6	8	125.00	3	2	231.0	
25	905+50.00	-	909+88.00	I-49 RT	2.2	8	438.00	3	2	967.3	
25	907+50.00	-	909+42.00	I-49 LT	1.3	8	192.00	3	2	667.5	
27	934+50.00	-	935+86.00	I-49 RT	1.4	8	136.00	2	2	215.5	
27	938+25.00	-	939+50.00	I-49 RT	1.0	8	125.00	2	2	173.2	
27	956+50.00	-	958+25.00	I-49 RT	1.4	8	175.00	3	2	302.5	
29	963+25.00	-	966+00.00	I-49 LT	1.3	8	275.00	3	2	458.9	
29	964+25.00	-	965+57.00	I-49 RT	1.0	8	132.00	3	2	196.5	
31	981+00.00	-	986+46.00	I-49 RT	1.9	8	546.00	2	2	1000.8	
31	983+00.00	-	986+89.00	I-49 LT	2.8	8	389.00	2	2	887.0	
17, 33	1008+59.00	-	1009+61.00	RAMP 1 - LT	1.3	2	102.00	3	2	102.2	
17, 33	1009+62.00	-	1011+20.00	RAMP 1 - RT	1.5	8	158.00	3	2	282.6	
17	2004+60.00	-	2007+75.00	RAMP 2 - RT	1.9	8	315.00	3	2	639.0	
17, 33	2012+50.00	-	2016+25.00	RAMP 2 - RT	1.5	8	375.00	3	2	670.8	
17, 33	2014+65.00	-	2017+20.00	RAMP 2 - LT	1.5	8	255.00	3	2	456.1	
17,21,33	3000+50.00	-	3004+18.00	RAMP 3 - LT	1.6	0	368.00	3	2	353.2	
21	3004+18.00	-	3009+50.00	RAMP 3 - LT	2.5	8	532.00	2	2	1133.7	
21	3009+50.00	-	3010+77.00	RAMP 3 - LT	3.3	8	127.00	2	2	321.1	
21	3010+77.00	-	3011+25.00	RAMP 3 - LT	3.6	8	48.00	2	2	128.5	
21	3011+25.00	-	3017+00.00	RAMP 3 - LT	2.5	8	575.00	2	2	1225.4	
17,21,33	4001+00.00	-	4004+25.00	RAMP 4 - RT	1.1	8	325.00	3	2	503.3	
21	4012+50.00	-	4015+00.00	RAMP 4 - RT	2.0	8	250.00	3	2	522.1	
21	4015+00.00	-	4016+61.00	RAMP 4 - RT	4.2	8	161.00	3	2	548.7	
									TOTAL =	22030.0	
									USE =	22030.0	

DRIVEWAYS

SHEET	STATION	LOCATION	TYPE	LENGTH EOP TO R/W (FT)	WIDTH (FT)	AREA (SQ. FT)	6" THICK GRAVEL (A) OR CRUSHED STONE (B) (SQ. YD)	PAVED AREA (SQ. FT)	BP-1 1 3/4" (CY)	BP-1 1.987 TONS/CY (TONS)	PG64-22 4" BASE (CY)	PG64-22 2.005 TONS/CY (TONS)	4" TYPE 5 AGG. BASE (SQ. YD)	REMARKS
36	707+20.00	LT	1	19.00	20.0	422.92	47.0							Kelley Co. Rd.
36	707+20.00	RT	1	19.00	20.0	422.92	47.0							Kelley Co. Rd.
36	709+00.00	LT	1	19.16	20.0	426.19	47.4							Kelley Co. Rd.
36	709+00.00	RT	1	19.00	20.0	422.92	47.0							Kelley Co. Rd.
17, 33	58+10.00	LT	1	82.00	20.0	1440.61	160.1	300.00	1.62	3.22	3.70	7.43	33.33	Rte. 90
17, 33	58+10.00	RT	1	67.00	20.0	1138.53	126.5	300.00	1.62	3.22	3.70	7.43	33.33	Rte. 90
						TOTAL =	474.9			6.4		14.9	66.7	
						USE =	475.0			6.4		14.9	67.0	

ACCESS ROADS

SHEET	BEGIN STATION	END STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ. FT)	6" THICK GRAVEL (A) OR CRUSHED STONE (B) (SQ. YD)	BP-1 1 3/4" (CY)	BP-1 1.987 TONS/CY (TONS)	PG64-22 4" BASE (CY)	PG64-22 2.005 TONS/CY (TONS)	4" TYPE 5 AGG. BASE (SQ. YD)	REMARKS
35	700+00.00	710+10.20	1010.2	22.0	22224.4	2469.4						Sumner Co. Rd.
35	710+10.20	710+72.04	Area Analyzed		2254.5		12.2	24.2	27.8	55.8	250.5	Sumner Co. Rd.
36	700+50.00	710+16.82	966.8	22.0	21270.0	2363.3						Kelley Co. Rd.
36	710+16.82	710+74.13	Area Analyzed		227.8	25.3						Kelley Co. Rd.
10	0+00.00	1+59.37	159.4	20.0	3187.4	354.2						Gardner Private Rd.
					TOTAL =	5212.2		24.2		55.8	250.5	
					USE =	5213.0		24.2		55.8	251.0	

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 3
COUNTY McDONALD	
JOB NO. J7P0601	
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

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

MEDIAN OUTLET PIPES

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	CLASS III R.C.P (FT) 15″	CLASS III R.C.P (FT) 18″	CLASS III R.C.P (FT) 24″	GROUP B LENGTH (FT) 15″	GROUP B LENGTH (FT) 24″	GROUP B F.E.S. (EA) 15″	GROUP B F.E.S. (EA) 24″	PRECAST CONC. F.E.S. (EA) 15″	PRECAST CONC. F.E.S. (EA) 18″	TYPE B PIPE COLLAR (EA)	ROCK LINING (CU.YD)	REMARKS
13	I-49	795+00.00	0°	3.6	35			110		1				1	2	MEDIAN DRAIN OUTLET
13	I-49	798+53.65	0°	8.2			30		112		1			1		MEDIAN DRAIN OUTLET
13	I-49	818+00.00	0°	6.9	30			113		1				1	2	MEDIAN DRAIN OUTLET
15	I-49	830+63.00	0°	6.1	29			108		1				1	1	MEDIAN DRAIN OUTLET
15	I-49	840+50.00	0°	3.6	35			57		1				1	2	MEDIAN DRAIN OUTLET
15	I-49	844+25.00	0°	7.4	30			182		1				1	2	MEDIAN DRAIN OUTLET
17	I-49	847+50.00	0°	6.9	73							1			2	MEDIAN DRAIN OUTLET
17	I-49	850+75.00	0°	3.9	41			172		1				1	1	MEDIAN DRAIN OUTLET
21	I-49	877+75.00	0°	5.2	34			75		1				1	2	MEDIAN DRAIN OUTLET
21	I-49	884+00.00	0°	6.0	81							1			2	MEDIAN DRAIN OUTLET
21	I-49	893+00.00	0°	6.8	100							1			2	MEDIAN DRAIN OUTLET
21	I-49	896+00.00	0°	4.6	44			117		1				1	2	MEDIAN DRAIN OUTLET
21	I-49	899+00.00	0°	5.8	33			166		1				1	2	MEDIAN DRAIN OUTLET
21	I-49	902+00.00	0°	5.6	78							1				MEDIAN DRAIN OUTLET
25	I-49	906+00.00	0°	7.7	87							1				MEDIAN DRAIN OUTLET
25	I-49	914+00.00	0°	3.6	65							1				MEDIAN DRAIN OUTLET
25	I-49	918+00.00	0°	3.6	65							1				MEDIAN DRAIN OUTLET
25	I-49	922+00.00	0°	3.7	66							1				MEDIAN DRAIN OUTLET
25	I-49	929+41.92	0°	5.5		68							1			MEDIAN DRAIN OUTLET
27	I-49	934+25.00	0°	4.4	34			126		1				1		MEDIAN DRAIN OUTLET
27	I-49	938+00.00	0°	4.4	34			133		1				1	2	MEDIAN DRAIN OUTLET
29	I-49	978+00.00	0°	8.6	88							1			2	MEDIAN DRAIN OUTLET
31	I-49	986+00.00	0°	10.7	55			176		1				1	2	MEDIAN DRAIN OUTLET
				TOTAL =	1137	68	30	1535	112	12	1	9	1	13	28	
				USE =	1137	68	30	1535	112	12	1	9	1	13	28	

CONCRETE APPROACH PAVEMENT

SHEET	STATION	TO	STATION	LOCATION	AREA (SQYD)	PLACE 18″ ROCK BASE (SQYD)	REMARKS
4	734+82.78		735+04.42	I-49, NBL	164.9	164.9	A6380 BRIDGE
4, 7	737+49.41		737+95.47	I-49, NBL	148.1	148.1	A6380 BRIDGE
				TOTAL =	313.0	313.0	
				USE =	313.0	313.0	

CONCRETE TRAFFIC BARRIER

SHEET	STATION	TO	STATION	LOCATION	TYPE C (L.F.)	REMARKS
7, 10	757+50.00		767+20.00	I-49 NBL	970.0	
7, 10	755+75.00		764+93.73	I-49 SBL	918.7	
7, 9, 13, 15, 17	764+93.73		869+00.00	I-49	10406.3	
17, 21	869+00.00		877+50.00	I-49	850.0	
21, 25, 27, 29	877+50.00		979+50.00	I-49	10200.0	
				TOTAL =	23345.0	

ROCK SLOPE PROTECTION

SHEET	RTE.	STATION	TO	STATION	THK.	PLACING TYPE 2 ROCK BLANKET (CUYD)	SEPARATION GEOTEXTILE FABRIC (SQYD)	REMARKS
4	I-49 NBL	735+33	–	735+53	24″	73.3	110.0	NORTH END BR. A6380
4	I-49 NBL	737+03	–	737+21	24″	66.7	100.0	SOUTH END BR. A6380
10	I-49	779+69			24″	136.8	205.1	FLUME, 98′ LT.
15	I-49	835+40			24″	51.0	76.5	FLUME, 90′ LT.
21	RAMP 4	4004+07			24″	22.4	33.6	FLUME, 255′ RT.
21	I-49	895+36			24″	55.8	83.7	FLUME, 191′ LT.
25	I-49	915+54			24″	236.1	354.1	FLUME, 156′ LT.
25	I-49	920+01			24″	108.6	162.8	FLUME, 140′ LT.
25	I-49	928+65			24″	88.8	133.2	FLUME, 141′ LT.
27	I-49	940+49			24″	13.9	20.8	FLUME, 97′ LT.
27	I-49	948+21			24″	73.5	110.2	FLUME, 115′ LT.
29	I-49	977+23			24″	87.9	131.8	FLUME, 124′ LT.
33	90	49+27	–	49+34	24″	21.9	32.9	WEST END BR. A7000
33	90	50+72	–	50+78	24″	19.2	28.8	EAST END BR. A7000
					TOTAL =	1055.9	1583.5	
					USE =	1056	1584	

ALTERNATE B MODIFIED BRIDGE APPROACH

SHEET	STATION	TO	STATION	LOCATION	AREA (SQYD)	PLACE 18″ ROCK BASE (SQYD)	REMARKS
33	48+94.25		49+19.25	RTE. 90	96.3	96.3	A7000 BRIDGE
33	50+85.76		51+10.76	RTE. 90	96.3	96.3	A7000 BRIDGE
				TOTAL =	192.6	192.6	
				USE =	193.0	193.0	

RUMBLE STRIPS

SHEET	BEGIN STATION	END STATION	RTE.	LOCATION	ALT. A BIT. RUMBLE STRIPS (FT)	ALT. B CONC. RUMBLE STRIPS (FT)	REMARKS
4	729+20.22	735+62.24	I-49 NBL	LT EOP	642.02	642.02	I-49 N.B.L.
4	729+20.22	735+34.58	I-49 NBL	RT EOP	614.36	614.36	I-49 N.B.L.
4, 7, 10	737+43.93	767+20.00	I-49 NBL	LT EOP	2976.07	2976.07	I-49 N.B.L.
4, 7, 10	737+19.59	767+20.00	I-49 NBL	RT EOP	3000.41	3000.41	I-49 N.B.L.
4, 7, 10	723+02.82	764+93.73	I-49 SBL	LT EOP	4190.91	4190.91	I-49 S.B.L.
4, 7, 10	723+02.82	764+93.73	I-49 SBL	RT EOP	4190.91	4190.91	I-49 S.B.L.
10, 13, 15, 17	764+93.73	849+59.42	I-49 (NBL)	LT EOP	8465.69	8465.69	I-49
17, 21	859+26.32	891+19.16	I-49 (NBL)	LT EOP	3192.84	3192.84	I-49
21, 25, 27, 29, 31	900+44.87	987+32.82	I-49 (NBL)	LT EOP	8687.95	8687.95	I-49
7, 10, 13, 15, 17, 21, 25, 27, 29, 31	764+93.73	987+32.82	I-49 (NBL)	RT EOP	22239.09	22239.09	I-49
10, 13, 15, 17, 21, 25, 27, 29, 31	764+93.73	987+32.82	I-49 (SBL)	LT EOP	22239.09	22239.09	I-49
10, 13, 15, 17	764+93.73	849+64.32	I-49 (SBL)	RT EOP	8470.59	8470.59	I-49
17, 21	858+37.82	889+36.17	I-49 (SBL)	RT EOP	3098.35	3098.35	I-49
21, 25, 27, 29, 31	899+33.33	987+32.82	I-49 (SBL)	RT EOP	8799.49	8799.49	I-49
33	43+25.00	45+24.40	RTE 90	LT EOP	199.40	199.40	RTE 90
33	43+25.00	45+28.72	RTE 90	RT EOP	203.72	203.72	RTE 90
33	47+18.55	49+19.25	RTE 90	LT EOP	200.70	200.70	RTE 90
33	47+27.73	49+19.25	RTE 90	RT EOP	191.52	191.52	RTE 90
33	50+85.76	52+83.00	RTE 90	LT EOP	197.24	197.24	RTE 90
33	50+85.76	52+71.44	RTE 90	RT EOP	185.68	185.68	RTE 90
33	54+96.78	57+90.00	RTE 90	LT EOP	293.22	293.22	RTE 90
33	54+63.56	57+90.00	RTE 90	RT EOP	326.44	326.44	RTE 90
33	58+30.00	61+00.00	RTE 90	LT EOP	270.00	270.00	RTE 90
33	58+30.00	61+00.00	RTE 90	RT EOP	270.00	270.00	RTE 90
				TOTAL =	103145.69	103145.69	
				USE =	1031.5 STA	1031.5 STA	

BASE & PAVEMENT QUANTITIES FOR ALTERNATE A

STATION	STATION	LENGTH (FT)	12″ SP125BSM (PG76-22) (S.Y.)	7″ BP-1 (PG64-22) (S.Y.)	PLACE 18″ ROCK BASE (S.Y.)	REMARKS
729+20.00	734+82.78	562.8	1879.6		2954.8	I-49 N.B.L.
737+95.47	756+50.00	1854.5	6530.7		10411.6	I-49 N.B.L.
756+50.00	767+20.00	1070.0	3596.1		5091.6	I-49 N.B.L.
723+02.82	744+00.00	2097.2	6990.6		10643.7	I-49 S.B.L.
744+00.00	764+93.73	2093.7	7375.7		11949.9	I-49 S.B.L.
764+93.73	791+66.73	2673.0	18483.5		27891.7	I-49
791+66.73	817+00.00	2533.3	17981.0		25161.8	I-49
817+00.00	843+00.00	2600.0	18305.1		26461.1	I-49
843+00.00	869+00.00	2600.0	20992.9		29253.9	I-49
869+00.00	885+00.00	1600.0	11281.7		15971.9	I-49
885+00.00	901+00.00	1600.0	14080.0		19071.5	I-49
901+00.00	922+00.00	2100.0	14466.7		21373.3	I-49
922+00.00	943+00.00	2100.0	14466.7		21927.6	I-49
943+00.00	969+00.00	2600.0	17911.1		26578.3	I-49
969+00.00	987+32.72	1832.7	12534.1		20163.8	I-49
1001+86.13	1015+67.89	1381.8		4563.5	5289.6	RAMP 1
2003+75.64	2018+25.32	1449.7		4557.5	5360.9	RAMP 2
3000+12.06	3017+79.76	1767.7		5479.5	7068.3	RAMP 3
4000+11.97	4016+59.91	1647.9		5222.3	6029.3	RAMP 4
43+25.00	49+19.25	594.3		1776.9	2165.5	RTE. 90
50+85.76	61+00.00	1014.2		2979.0	3529.9	RTE. 90
		TOTAL =	186875.5	24578.7	304350.0	
		USE =	186875.5	24578.7	304350.0	

BASE & PAVEMENT QUANTITIES FOR ALTERNATE B

STATION	STATION	LENGTH (FT)	10″ PCCP (S.Y.)	7″ PCCP (S.Y.)	PLACE 18″ ROCK BASE (S.Y.)	REMARKS
729+20.00	734+82.78	562.8	1879.6		2800.9	I-49 N.B.L.
737+95.47	756+50.00	1854.5	6530.7		9929.1	I-49 N.B.L.
756+50.00	767+20.00	1070.0	3596.1		4946.9	I-49 N.B.L.
723+02.82	744+00.00	2097.2	6990.6		10172.1	I-49 S.B.L.
744+00.00	764+93.73	2093.7	7375.7		11404.3	I-49 S.B.L.
764+93.73	791+66.73	2673.0	18483.5		27368.2	I-49
791+66.73	817+00.00	2533.3	17981.0		24253.5	I-49
817+00.00	843+00.00	2600.0	18305.1		25616.0	I-49
843+00.00	869+00.00	2600.0	20992.9		28570.2	I-49
869+00.00	885+00.00	1600.0	11281.7		15590.7	I-49
885+00.00	901+00.00	1600.0	14080.0		18604.6	I-49
901+00.00	922+00.00	2100.0	14466.7		20860.0	I-49
922+00.00	943+00.00	2100.0	14466.7		21544.2	I-49
943+00.00	969+00.00	2600.0	17911.1		25946.0	I-49
969+00.00	987+32.72	1832.7	12534.1		19401.5	I-49
1001+86.13	1015+67.89	1381.8		4563.5	5206.0	RAMP 1
2003+75.64	2018+25.32	1449.7		4557.5	5264.0	RAMP 2
3000+12.06	3017+79.76	1767.7		5479.5	7164.5	RAMP 3
4000+11.97	4016+59.91	1647.9		5222.3	5930.1	RAMP 4
43+25.00	48+94.25	569.3		1688.0	2065.3	RTE. 90
51+10.76	61+00.00	989.2		2890.1	3407.4	RTE. 90
		TOTAL =	186875.5	24400.9	296045.5	
		USE =	186875.5	24400.9	296046.0	

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	3
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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

MoDOT

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SPECIAL DESIGN CONCRETE BOX CULVERTS (R.C.B.)

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT.)	STD.	SIZE	LENGTH (FT.)	CLASS B-1 CONCRETE (CU.YD)	REINFORCING STEEL (LB)	CLASS 4 EXCAVATION (CU.YD)	ROCK LINING (CU.YD)	REMARKS
7	I-49 NBL	743+58.95	35° L.A.	73.7	703.14	4′ X 4′	610	478.0	84970	1038	15	SEE SPECIAL SHEETS 47, 56
7	I-49 SBL	739+41.86	20° L.A.	69.0	703.14	5′ X 5′	519	514.0	97630	997		SEE SPECIAL SHEETS 48, 56
10	I-49	768+06.77	8° R.A.	103.8	703.14	10′ X 8′	504	1726.0	276840	1148		SEE SPECIAL SHEETS 49, 56
15	I-49	842+96.71	32° R.A.	86.3	703.14	4′ X 4′	319	275.3	50580	283		SEE SPECIAL SHEETS 50, 56
15	I-49	844+08.90	30° L.A.	88.2	703.14	6′ X 5′	495	738.4	113780	564		SEE SPECIAL SHEETS 51, 52, 56
21	I-49	887+10.93	32° R.A.	97.7	703.14	7′ X 6′	909	1859.4	277440	1738		SEE SPECIAL SHEETS 53, 56
21	I-49	899+93.87	13° R.A.	57.3	703.14	4′ X 4′	473	356.8	64340	993		SEE SPECIAL SHEETS 54, 56
25	I-49	909+72.11	6° R.A.	63.8	703.14	7′ X 6′	484	738.6	122180	722		SEE SPECIAL SHEETS 55, 56
							TOTAL =	6686.5	1087760	7483	15	
							USE =	6686.5	1087760	7483	15	

SPECIAL DESIGN REINFORCED CONCRETE PIPE CULVERTS (R.C.P.)

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	LENGTH (FT) 24″	LENGTH (FT) 30″	LENGTH (FT) 60″	FLARED END SEC. (EA) 24″	FLARED END SEC. (EA) 30″	FLARED END SEC. (EA) 60″	REMARKS
7	I-49 NBL	758+17.83	0°	64.79		527			2		
7	I-49 NBL	760+00.63	27° L.A.	64.26	584			2			
29	I-49	964+60.36	19° R.A.	61.74			501			2	
				TOTAL =	584	527	501	2	2	2	
				USE =	584	527	501	2	2	2	

SLOTTED DRAINS

SHEET	STA.	TO	STA.	LOCATION	SIZE	LENGTH (L.F.)	REMARKS
144	876+05.00	-	877+45.00	I-49 Median	15″	140′	
					TOTAL	140′	

CLASS IV REINFORCED CONCRETE PIPE CULVERTS (R.C.P.)

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	STD.	LENGTH (FT) 24″	LENGTH (FT) 42″	FLARED END SEC. (EA) 24″	FLARED END SEC. (EA) 42″	ROCK LINING (CU.YD)	REMARKS
27	I-49	958+02.44	7° R.A.	32.74	726.30		297		2		
17	RAMP 2	2012+30.00	57° L.A.	32.9	726.30	453		2		3	RAMP 2 GORE DRAINAGE
21	RAMP 4	4007+25.00	0°	33.05	726.30	303		2			RAMP 4 GORE DRAINAGE
					TOTAL =	756	297	4	2	3	
					USE =	756	297	4	2	3	

CLASS V REINFORCED CONCRETE PIPE CULVERTS (R.C.P.)

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	STD.	LENGTH (FT) 30″	LENGTH (FT) 36″	LENGTH (FT) 48″	FLARED END SEC. (EA) 30″	FLARED END SEC. (EA) 36″	FLARED END SEC. (EA) 48″	ROCK LINING (CU.YD)	REMARKS
4	I-49 SBL	731+00.00	0°	36.95	726.30		340			2			
10	I-49	783+66.96	13° R.A.	38.59	726.30	341			2				
13	I-49	794+39.04	37° R.A.	42.73	726.30			257			1		CONNECT TO BOX CULV. RT.
13	I-49	818+19.01	2° L.A.	37.45	726.30			327			2		
15	I-49	831+22.78	19° R.A.	49.97	726.30		421			2			
21	RAMP 3	3003+51.72	30° L.A.	48.4	726.30	331			2			4	RAMP 3 GORE DRAINAGE
					TOTAL =	672	761	584	4	4	3	4	
					USE =	672	761	584	4	4	3	4	

GROUP B PIPE (CROSSROAD PIPES)

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	LENGTH (FT) 18″	18″ FLARED END SEC. (EA)	ROCK LINING (CU.YD)	REMARKS
33	RTE. 90	56+50.00	0°	3.0	48	2	2	
33	RTE. 90	60+29.00	6° R.A	2.2	41	2	2	
				TOTAL =	89	4	4	
				USE =	89	4	4	

GROUP C PIPE

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	LENGTH (FT) 18″	18″ FLARED END SEC. (EA)	ROCK LINING (CU.YD)	REMARKS
35	SUMNER CO. RD.	710+64.87	21° R.A.	2.3	77	2	2	
				TOTAL =	77	2	2	
				USE =	77	2	2	

CONCRETE SLOPE PROTECTION

SHEET	BEGIN STATION	END STATION	LENGTH (FT.)	WIDTH (FT.)	CONCRETE SLOPE PROTECTION (SQYD)	REMARKS
17, 33	49+23.00	49+27.00	4	37	16.4	RTE. 90, BR. A7000
17, 33	50+78.00	50+82.00	4	37	16.4	RTE. 90, BR. A7000
				TOTAL =	33.0	

CLASS III REINFORCED CONCRETE PIPE CULVERTS (R.C.P.)

SHEET	RTE.	STATION	SKEW	FILL HEIGHT (FT)	STD.	LENGTH (FT) 24″	FLARED END SEC. (EA) 24″	ROCK LINING (CU.YD)	REMARKS
17	RAMP 1	1009+04.71	30° R.A.	18.32	726.30	183	2	3	RAMP 1 GORE DRAINAGE
					TOTAL =	183	2	3	
					USE =	183	2	3	

PLACING TYPE 2 ROCK DITCH LINER

SHEET	STATION	TO	STATION	LOCATION	DEPTH (FT.)	BOTTOM WIDTH (FT.)	LENGTH (FT.)	INSLOPE	BACKSLOPE	PLACING TYPE 2 (C.Y.)	REMARKS
7	756+00.00	-	757+60.00	NBL - LT	1.4	4	160.00	3	2		
7	742+50.00	-	747+50.00	SBL - LT	1.0	8	500.00	3	2		
13	793+00.00	-	795+00.00	I-49 LT	1.5	8	200.00	2	2		
15	832+50.00	-	835+50.00	I-49 LT	1.8	8	300.00	3	2	197.0	
15, 17	845+35.00	-	848+76.00	I-49 LT	2.4	4	341.00	2	2	186.0	
17	873+00.00	-	873+50.00	I-49 RT	2.0	0	50.00	6	2	31.0	
17, 21	873+50.00	-	880+00.00	I-49 RT	2.0	8	650.00	3	2	453.0	
17	1011+20.00	-	1015+25.00	RAMP 1 - RT	1.5	8	405.00	6	2	307.0	
17	2016+25.00	-	2017+78.00	RAMP 2 - RT	1.0	8	153.00	3	2	76.0	
									TOTAL =	1674.0	
									USE =	1674.0	

GROUP B PIPE (MEDIAN DRAINS)

SHEET	LOC.	STATION	TO	STATION	LENGTH (FT) 15″	LENGTH (FT) 18″	LENGTH (FT) 24″	REMARKS
13	I-49 ℄	797+33.00	–	798+53.65	119			MEDIAN DRAIN
13	I-49 ℄	798+53.65	–	799+74.00			119	MEDIAN DRAIN
13	I-49 ℄	799+74.00	–	802+00.00			224	MEDIAN DRAIN
13	I-49 ℄	802+00.00	–	806+00.00		399		MEDIAN DRAIN
13	I-49 ℄	806+00.00	–	810+00.00	399			MEDIAN DRAIN
13	I-49 ℄	810+00.00	–	814+00.00	399			MEDIAN DRAIN
15	I-49 ℄	830+63.00	–	830+78.00	13			MEDIAN DRAIN
15	I-49 ℄	830+78.00	–	831+10.00	30			MEDIAN DRAIN
15	I-49 ℄	831+10.00	–	831+50.00	38			MEDIAN DRAIN
15	I-49 ℄	831+50.00	–	833+00.00	149			MEDIAN DRAIN
15	I-49 ℄	833+00.00	–	835+50.00	249			MEDIAN DRAIN
21	I-49 ℄	877+45.00	–	877+75.00	29			MEDIAN DRAIN
21	I-49 ℄	879+25.00	–	880+50.00	123			MEDIAN DRAIN
21	I-49 ℄	880+50.00	–	882+00.00	148			MEDIAN DRAIN
21	I-49 ℄	882+00.00	–	883+00.00	98			MEDIAN DRAIN
21	I-49 ℄	883+00.00	–	884+00.00	98			MEDIAN DRAIN
21	I-49 ℄	885+75.00	–	887+25.00	149			MEDIAN DRAIN
21	I-49 ℄	887+25.00	–	889+25.00	199			MEDIAN DRAIN
21	I-49 ℄	889+25.00	–	891+25.00	199			MEDIAN DRAIN
21	I-49 ℄	891+25.00	–	893+00.00	174			MEDIAN DRAIN
21	I-49 ℄	894+50.00	–	896+00.00	148			MEDIAN DRAIN
21	I-49 ℄	897+50.00	–	899+00.00	148			MEDIAN DRAIN
21	I-49 ℄	900+50.00	–	902+00.00	148			MEDIAN DRAIN
25	I-49 ℄	904+00.00	–	906+00.00	198			MEDIAN DRAIN
25	I-49 ℄	908+00.00	–	910+00.00	198			MEDIAN DRAIN
25	I-49 ℄	910+00.00	–	912+00.00	198			MEDIAN DRAIN
25	I-49 ℄	912+00.00	–	914+00.00	198			MEDIAN DRAIN
25	I-49 ℄	916+00.00	–	918+00.00	198			MEDIAN DRAIN
25	I-49 ℄	920+00.00	–	922+00.00	198			MEDIAN DRAIN
25	I-49 ℄	925+00.00	–	926+25.00	123			MEDIAN DRAIN
25	I-49 ℄	926+25.00	–	927+50.00	123			MEDIAN DRAIN
25	I-49 ℄	927+50.00	–	928+50.00	98			MEDIAN DRAIN
25	I-49 ℄	928+50.00	–	929+00.00	48			MEDIAN DRAIN
25	I-49 ℄	929+00.00	–	929+41.92	40			MEDIAN DRAIN
25	I-49 ℄	929+41.92	–	929+87.00	43			MEDIAN DRAIN
25	I-49 ℄	929+87.00	–	930+75.00	86			MEDIAN DRAIN
25, 27	I-49 ℄	930+75.00	–	931+75.00	98			MEDIAN DRAIN
				TOTAL =	4904	399	343	
				USE =	4904	399	343	

PLACING TYPE 3 ROCK DITCH LINER

SHEET	STATION	TO	STATION	LOCATION	DEPTH (FT.)	BOTTOM WIDTH (FT.)	LENGTH (FT.)	INSLOPE	BACKSLOPE	PLACING TYPE 3 (C.Y.)	BEDDING MATERIAL (C.Y.)	REMARKS
13	792+50.00	–	796+00.00	I-49 RT	2.2	8	350.00	2	2	423.0	154.0	
15, 17	846+50.00	–	848+00.00	I-49 RT	2.0	8	150.00	3	2	191.0	70.0	
17	865+00.00	–	867+10.00	I-49 LT	1.9	8	210.00	3	2	260.0	95.0	
17	867+10.00	–	869+16.00	I-49 LT	1.1	8	206.00	3	2	195.0	71.0	
21	875+00.00	–	877+00.00	I-49 LT	2.8	8	200.00	3	2	314.0	114.0	
21	880+00.00	–	882+00.00	I-49 RT	1.9	8	200.00	3	2	248.0	90.0	
27	934+50.00	–	938+50.00	I-49 LT	2.7	8	400.00	2	2	545.0	198.0	
29	976+50.00	–	980+00.00	I-49 RT	1.7	8	350.00	3	2	409.0	148.0	
17	1009+61.00	–	1015+21.00	RAMP 1 - LT	1.4	2	560.00	6	2	519.0	189.0	
									TOTAL =	3104.0	1129.0	
									USE =	3104.0	1129.0	

PLACING TYPE 4 ROCK DITCH LINER

SHEET	STATION	TO	STATION	LOCATION	DEPTH (FT.)	BOTTOM WIDTH (FT.)	LENGTH (FT.)	INSLOPE	BACKSLOPE	PLACING TYPE 4 (C.Y.)	BEDDING MATERIAL (C..Y.)	REMARKS
7	738+00.00	–	740+25.00	SBL - LT	1.0	8	225.00	3	2	279.0	112.0	
7	745+00.00	–	751+80.00	SBL - LT	1.3	8	680.00	3	2	946.0	378.0	
7	761+01.00	–	764+00.00	NBL - LT	1.0	4	299.00	3	2	260.0	104.0	
13	791+00.00	–	792+50.00	I-49 RT	1.0	8	150.00	3	2	186.0	74.0	
13	795+00.00	–	798+00.00	I-49 LT	2.0	8	300.00	2	2	471.0	188.0	
17	869+90.00	–	872+00.00	I-49 RT	1.3	8	210.00	3	2	292.0	117.0	
21	894+00.00	–	895+25.00	I-49 LT	1.0	8	125.00	3	2	155.0	62.0	
25	909+88.00	–	912+78.00	I-49 RT	1.0	8	290.00	3	2	356.0	142.0	
17, 21	4001+00.00	–	4003+00.00	RAMP 4 - LT	1.9	8	200.00	6	2	441.0	176.0	
21	4003+00.00	–	4007+25.00	RAMP 4 - LT	1.9	8	425.00	3	2	718.0	287.0	
									TOTAL =	4104.0	1640.0	
									USE =	4104.0	1640.0	

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	3
COUNTY	McDONALD
JOB NO.	J7P0601

DESCRIPTION

DATE

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

REMARKS

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PRECAST CONCRETE DROP INLETS

SHEET	STATION	LOCATION	TYPE	STD.	PIPE OPENING (IN)	PRECAST CONC. DROP INLET 2' X 2' "D" (FT)	PRECAST CONC. DROP INLET 2' X 2' PAY "D"	PRECAST CONC. DROP INLET 4' X 2' "D" (FT)	PRECAST CONC. DROP INLET 4' X 2' PAY "D"	PRECAST CONC. DROP INLET 5' X 3' "D" (FT)	PRECAST CONC. DROP INLET 5' X 3' PAY "D"	CURVED VANE GRATE & FRAME 2' X 2' (EA)	CURVED VANE GRATE & FRAME 4' X 2' (EA)	GRATE & BEARING PLATE 5' X 3' (EA)	STD.	CL. 3 EXCAV. (CU.YD)	CL.3 EXC. IN ROCK (CU.YD)	REMARKS
13	795+00.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
13	797+33.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
13	798+53.65	I-49 ℄	B	731.10	15,24,24			6.0	6				1		614.11	11		MEDIAN RELIEF
13	799+74.00	I-49 ℄	B	731.10	24,24			5.0	5				1		614.11	6	3	MEDIAN RELIEF
13	802+00.00	I-49 ℄	B	731.10	18,24			5.0	5				1		614.11		9	MEDIAN RELIEF
13	806+00.00	I-49 ℄	B	731.10	15,18			4.5	5				1		614.11		9	MEDIAN RELIEF
13	810+00.00	I-49 ℄	B	731.10	15,15			4.5	5				1		614.11		9	MEDIAN RELIEF
13	814+00.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11		9	MEDIAN RELIEF
13	818+00.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	830+63.00	I-49 ℄	B	731.10	15,15			5.5	6				1		614.11	11		MEDIAN RELIEF
15	830+78.00	I-49 ℄	B	731.10	15,15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	831+10.00	I-49 ℄	B	731.10	15,15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	831+50.00	I-49 ℄	B	731.10	15,15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	833+00.00	I-49 ℄	B	731.10	15,15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	835+50.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	840+50.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
15	844+25.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
17	847+50.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
17	850+75.00	I-49 ℄	B	731.10	15			4.5	5				1		614.11	9		MEDIAN RELIEF
21	877+75.00	I-49 ℄	B	731.10	15,15	5.5	6					1			614.11	8		MEDIAN RELIEF
21	879+25.00	I-49 ℄	B	731.10	15	4.0	4					1			614.11	7		MEDIAN RELIEF
21	880+50.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	882+00.00	I-49 ℄	B	731.10	15,15	5.0	5					1			614.11	7		MEDIAN RELIEF
21	883+00.00	I-49 ℄	B	731.10	15,15	5.5	6					1			614.11	7		MEDIAN RELIEF
21	884+00.00	I-49 ℄	B	731.10	15,15	6.0	6					1			614.11	7		MEDIAN RELIEF
21	885+75.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	887+25.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	889+25.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	891+25.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	893+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	894+50.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	896+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	897+50.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	899+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	900+50.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
21	902+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
25	904+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	906+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	908+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
25	910+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
25	912+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11	7		MEDIAN RELIEF
25	914+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	916+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	918+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	920+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	922+00.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	925+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	926+25.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	927+50.00	I-49 ℄	B	731.10	15,15	4.5	5					1			614.11		7	MEDIAN RELIEF
25	928+50.00	I-49 ℄	B	731.10	15,15	5.0	5					1			614.11		7	MEDIAN RELIEF
25	929+00.00	I-49 ℄	B	731.10	15,15	6.0	6					1			614.11		8	MEDIAN RELIEF
25	929+41.92	I-49 ℄	B	731.10	15,15,18	6.5	7					1			614.11		9	MEDIAN RELIEF
25	929+87.00	I-49 ℄	B	731.10	15,15	6.0	6					1			614.11		8	MEDIAN RELIEF
25	930+75.00	I-49 ℄	B	731.10	15,15	5.0	5					1			614.11		7	MEDIAN RELIEF
27	931+75.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11		7	MEDIAN RELIEF
27	934+25.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
27	936+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
27	938+00.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11	7		MEDIAN RELIEF
27	940+50.00	I-49 ℄	B	731.10	15	4.5	5					1			614.11		7	MEDIAN RELIEF
29	978+00.00	I-49 ℄	S-2	731.10	15					3.5	4			1	614.10	2	6	MEDIAN RELIEF
31	986+00.00	I-49 ℄	S-2	731.10	15					3.5	4			1	614.10	8		MEDIAN RELIEF
					TOTAL =		206		97		8	40	19	2		308	168	
					USE =		206		97		8	40	19	2		308	168	

ENERGY DISSIPATORS

SHEET	RTE.	CENTERLINE STATION	CULVERT SIZE	CLASS 3 EXCAVATION (C. Y.)	PLACING TYPE 2 ROCK BLANKET (C. Y.)	REMARKS
4	I-49 SBL	731+00.00	36"	13	28	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
7	I-49 SBL	739+41.86	5'x 5'	94	98	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
7	I-49 NBL	758+17.83	30"	21	26	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
7	I-49 NBL	760+00.63	24"	19	31	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
10	I-49	768+06.77	10'x 8'	403	530	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
10	I-49	783+66.96	30"	34	76	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
13	I-49	794+44.90	2 - 8'x 8'	340	1509	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
13	I-49	818+19.01	48"	78	183	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
15	I-49	831+22.78	36"	42	63	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
15	I-49	844+08.90	6'x 5'	187	192	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
21	RAMP 4	4007+25.00	24"	6	14	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
21	I-49	887+10.93	7'x 6'	318	323	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
21	I-49	899+93.87	4'x 4'	66	70	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
25	I-49	909+72.11	7'x 6'	258	279	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
27	I-49	958+02.44	42"	16	35	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
29	I-49	964+60.36	60"	101	148	SEE SPECIAL SHEET FOR BASIN & RIPRAP DIMENSIONS
			TOTAL	1996	3605	
			USE	1996	3605	

INSTALLING 8" WELDED STEEL ENCASEMENT FOR UTILITY CROSSING

SHEET	RTE.	STATION	SKEW	ENCASEMENT LENGTH (FT)	QTY.	REMARKS
17	I-49	853+00.00	0º	302	1	ENCASEMENT FURNISHED BY OTHERS
33	RTE. 90	43+50.00	0º	60	1	ENCASEMENT FURNISHED BY OTHERS
33	RTE. 90	60+75.00	0º	60	1	ENCASEMENT FURNISHED BY OTHERS
				TOTAL =	3	
				LUMP SUM =	1	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	3
COUNTY	McDONALD
JOB NO.	J7P0601
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

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

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

WET REFLECTIVE HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING

SHEET	STATION	TO	STATION	RTE.	LOCATION	6″ SOLID WHITE (FT)	6″ INT. WHITE (FT)	6″ SOLID YELLOW (FT)	12″ SOLID WHITE (FT)	REMARKS
4, 109	726+31.77	–	729+61.15	RTE 71 NBL	24′ RT				329.38	GORE LINE
4, 109	711+60.00	–	712+52.88	RTE 71 SBL	36′ RT	92.88				RIGHT EOP
4, 7, 10, 109, 110	712+52.88	–	764+93.73	I-49 SBL	12′ LT		1310.21			RIGHT LANE LINE
4, 7, 10, 109, 110	712+52.88	–	764+93.73	I-49 SBL	BASELINE	5240.85				RIGHT EOP
4, 109	720+00.00	–	723+98.00	I-49 SBL	24′ LT				398.00	GORE LINE
4, 7, 10, 109, 110	723+98.00	–	764+93.73	I-49 SBL	24′ LT			4095.73		LEFT EOP
4, 109	726+31.77	–	729+57.75	I-49 NBL	24′ LT				325.98	GORE LINE
4, 7, 10, 109, 110	726+31.77	–	767+20.00	I-49 NBL	12′ LT		1022.06			RIGHT LANE LINE
4, 7, 10, 109, 110	726+31.77	–	767+20.00	I-49 NBL	BASELINE			4088.23		RIGHT EOP
4, 7, 10, 109, 110	729+57.75	–	767+20.00	I-49 NBL	24′ LT	3762.25				LEFT EOP
7, 10, 13, 15, 17, 21, 25, 27, 29, 31, 110-113	764+93.73	–	987+32.82	I-49	~17′ LT		5559.77			NBL LANE LINE
7, 10, 13, 15, 17, 21, 25, 27, 29, 31, 110-113	764+93.73	–	987+32.82	I-49	~5′ LT			22239.09		NBL RT EOP
7, 10, 13, 15, 17, 21, 25, 27, 29, 31, 110-113	764+93.73	–	987+32.82	I-49	~5′ RT			22239.09		SBL LT EOP
7, 10, 13, 15, 17, 21, 25, 27, 29, 31, 110-113	764+93.73	–	987+32.82	I-49	~17′ RT		5559.77			SBL LANE LINE
4, 7, 10, 13, 15, 17, 110-111	764+93.73	–	857+39.42	I-49	~29′ LT	9245.69				NBL LT EOP
4, 7, 10, 13, 15, 17, 110-111	764+93.73	–	855+14.32	I-49	~29′ RT	9020.59				SBL RT EOP
17, 111	854+49.42	–	857+39.42	I-49	29′ LT		72.50			NBL LEFT LANE LINE
17, 111	857+39.42	–	860+63.03	I-49	29′ LT				323.61	GORE LINE
17, 111	853+39.32	–	855+14.32	I-49	29′ RT		43.75			SBL RIGHT LANE LINE
17, 111	855+14.32	–	858+91.26	I-49	29′ RT				376.94	GORE LINE
17, 21, 111-112	860+63.03	–	890+60.24	I-49	29′ LT	2997.21				NBL LT EOP
17, 21, 111-112	858+91.26	–	887+77.39	I-49	29′ RT	2886.13				SBL RT EOP
21, 112	890+60.24	–	894+94.87	I-49	29′ LT				434.63	GORE LINE
21, 112	894+94.87	–	896+69.87	I-49	29′ LT		43.75			NBL LEFT LANE LINE
21, 112	887+77.39	–	891+53.33	I-49	29′ RT				375.94	GORE LINE
21, 112	891+53.33	–	894+43.33	I-49	29′ RT		72.50			SBL RIGHT LANE LINE
21, 25, 27, 29, 31, 112-113	894+94.87	–	987+32.82	I-49	~29′ RT	9237.95				NBL LT EOP
21, 25, 27, 29, 31, 112-113	891+53.33	–	987+32.82	I-49	~29′ RT	9579.49				SBL RT EOP
17, 111	1000+00.00	–	1015+63.74	RAMP 1	BASELINE	1590.85				LEFT EOP; INCL. RADIUS
17, 111	1000+00.00	–	1003+22.28	RAMP 1	14′ RT				322.28	GORE LINE
17, 111	1003+22.28	–	1015+61.99	RAMP 1	14′ RT			1261.07		RIGHT EOP; INCL. RADIUS
17, 111	2000+00.00	–	2003+75.64	RAMP 2	14′ LT				375.64	GORE LINE
17, 111	2003+75.64	–	2018+14.27	RAMP 2	14′ LT			1460.82		LEFT EOP; INCL. RADIUS
17, 111	2000+00.00	–	2018+24.19	RAMP 2	BASELINE	1844.24				RIGHT EOP; INCL. RADIUS
17, 21, 111-112	3000+10.23	–	3022+11.42	RAMP 3	BASELINE	2214.86				LEFT EOP; INCL. RADIUS
17, 21, 111, 112	3000+32.70	–	3017+79.75	RAMP 3	14′ RT			1774.19		RIGHT EOP; INCL. RADIUS
21, 112	3017+79.75	–	3022+11.42	RAMP 3	14′ RT				431.67	GORE LINE
17, 21, 111, 112	4000+30.88	–	4015+00.89	RAMP 4	14′ LT			1497.04		LEFT EOP; INCL. RADIUS
112	4015+00.89	–	4018+77.22	RAMP 4	14′ LT				376.33	GORE LINE
21, 111, 112	4000+09.81	–	4018+77.22	RAMP 4	BASELINE	1883.72				RIGHT EOP; INCL. RADIUS
33, 114	43+25.00	–	46+05.19	RTE 90	~11′ LT	280.19				LEFT EOP
33, 114	47+19.05	–	52+82.35	RTE 90	~11′ LT	563.30				LEFT EOP
33, 114	54+16.32	–	61+00.00	RTE 90	~11′ LT	683.68				LEFT EOP
33, 114	43+25.00	–	61+00.00	RTE 90	CENTERLINE			3550.00		DOUBLE SOLID YELLOW
33, 114	43+25.00	–	46+09.42	RTE 90	~11′ RT	284.42				RIGHT EOP
33, 114	47+28.23	–	52+70.98	RTE 90	~11′ RT	542.75				RIGHT EOP
33, 114	53+82.82	–	61+00.00	RTE 90	~11′ RT	717.18				RIGHT EOP
					TOTAL =	62668.23	13684.32	62205.26	4070.40	
					USE =	62669.0	13685.0	62206.0	4071.0	

PAVEMENT MARKING REMOVAL

SHEET	STATION	TO	STATION	LOCATION & DESCRIPTION	LENGTH (FT)	REMARKS
4, 109	711+60.00	–	720+00.00	I-49 S.B.L. – 12″ SOLID WHITE LANE TRANSITION	840.00	12″ SOLID WHITE
4, 109	726+31.77	–	729+61.15	I-49 N.B.L. – 6″ SOLID YELLOW LANE TRANSITION	329.38	6″ SOLID YELLOW
				TOTAL =	1169.38	
				USE =	1170	

TEMPORARY EROSION CONTROL

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	TYPE II DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	TYPE "B" TEMP. BERM (L.F.)	SEDIMENT BASIN (CUYD)	SLOPE DRAINS (L.F.)	REMARKS
64	732+00.00			I-49 NBL	RT		1			1				
64	732+25.00			I-49 NBL	RT		1			1				
64	733+10.00	–	734+55.00	I-49 NBL	RT		4			4				
64	734+25.00			I-49 NBL	LT		1			1				
64	734+60.00			I-49 NBL	LT		1			1				
64	735+10.00			I-49 NBL	LT		1			1				
65	738+75.00			I-49 NBL	LT		1			1				
65	738+85.00			I-49 NBL	RT		1			1				
65	738+95.00	–	748+10.00	I-49 NBL	LT	1066				11				OUTSIDE OF DITCH
65	739+25.00			I-49 NBL	LT		1			1				
65	739+62.00	–	743+46.00	I-49 NBL	LT	414				4				INSIDE OF DITCH
65	739+90.00			I-49 NBL	LT		1			1				
65	741+00.00	–	741+25.00	I-49 NBL	RT		2			2				
65	741+00.00			I-49 NBL	LT								83	
65	741+25.00	–	742+25.00	I-49 NBL	LT		2			2				
65	742+50.00			I-49 NBL	LT		1			1				
65	744+09.00	–	745+07.00	I-49 NBL	LT	121				1				OUTSIDE OF DITCH
65	744+75.00			I-49 NBL	LT		1			1				
65	745+00.00	–	745+80.00	I-49 NBL	LT		3			3				
65	746+00.00			I-49 NBL	LT								197	
65	746+05.00			I-49 NBL	LT		1			1				
65	747+11.00	–	755+26.00	I-49 NBL	LT	858				9				OUTSIDE OF DITCH
65	748+40.00			I-49 NBL	LT					10		229		
65	750+00.00	–	754+00.00	I-49 NBL	LT		2			2				
65	756+01.00	–	763+98.00	I-49 NBL	LT	880				9				INSIDE OF DITCH
65	756+02.00	–	764+81.00	I-49 NBL	RT						880			
65	757+00.00			I-49 NBL	LT		1			1				
65	757+70.00	–	757+95.00	I-49 NBL	LT		2			2				
65	758+45.00	–	758+70.00	I-49 NBL	LT		2			2				
65	759+25.00			I-49 NBL	LT		1			1				
65	760+50.00	–	760+75.00	I-49 NBL	LT		2			2				
65	761+30.00	–	761+55.00	I-49 NBL	LT		2			2				
65	763+25.00	–	764+25.00	I-49 NBL	LT		2			2				
65, 66	763+37.00	–	766+81.00	I-49 NBL	LT	358				4				OUTSIDE OF DITCH
66	765+75.00			I-49 NBL	LT		1			1				
64, 65	722+99.00	–	742+05.00	I-49 SBL	RT	2005				20				INSIDE OF DITCH
64, 66	724+05.00	–	742+01.00	I-49 SBL	LT						1796			
64	724+75.00			I-49 SBL	RT								113	
64	727+42.00	–	729+42.00	I-49 SBL	LT		2			2				
64	729+00.00			I-49 SBL	RT								222	
64	730+75.00			I-49 SBL	LT		1			1				
64	731+25.00			I-49 SBL	LT		1			1				
64	732+10.00	–	736+47.00	I-49 SBL	LT		20			20				
64	734+00.00			I-49 SBL	LT					0			260	
64, 65	736+47.00	–	737+61.00	I-49 SBL	LT		2			2				
65	738+55.00	–	738+80.00	I-49 SBL	RT		2			2				
65	739+00.00			I-49 SBL	RT								256	
65	739+65.00	–	739+90.00	I-49 SBL	LT		2			2				
65	739+75.00	–	740+00.00	I-49 SBL	RT		2			2				
65	739+79.00	–	749+13.00	I-49 SBL	RT	970				10				OUTSIDE OF DITCH
65	740+50.00			I-49 SBL	RT					10		333		
65	741+00.00	–	741+25.00	I-49 SBL	RT		2			2				
65	741+55.00	–	744+77.00	I-49 SBL	LT		15			15				
65	742+60.00	–	745+10.00	I-49 SBL	RT		6			6				
65	745+00.00			I-49 SBL	RT					10		333		
65	745+10.00	–	747+38.00	I-49 SBL	RT		4			4				
65	746+08.00	–	751+80.00	I-49 SBL	LT		27			27				
65	747+38.00	–	750+02.00	I-49 SBL	RT		4			4				
65	750+00.00	–	752+51.00	I-49 SBL	LT						251			
65	750+52.00			I-49 SBL	RT				5					
65	750+32.00	–	750+72.00	I-49 SBL	RT	110				1				
65	751+00.00	–	751+25.00	I-49 SBL	RT		2			2				
65	751+80.00	–	753+30.00	I-49 SBL	LT		3			3				
65	752+45.00	–	753+77.00	I-49 SBL	RT		3			3				
65	754+46.00	–	759+46.00	I-49 SBL	LT						500			
65	754+80.00	–	759+20.00	I-49 SBL	RT	658				7				
65	755+52.00			I-49 SBL	RT				13	10				
65	756+00.00	–	756+25.00	I-49 SBL	RT		2			2				
65	757+00.00	–	727+25.00	I-49 SBL	RT		2			2				
65	758+00.00	–	758+25.00	I-49 SBL	RT		2			2				
65	759+35.00	–	762+35.00	I-49 SBL	RT		4			4				
65	760+07.00	–	764+51.00	I-49 SBL	RT	444				4				
65	763+35.00	–	764+35.00	I-49 SBL	RT		2			2				
65, 66	764+86.00	–	772+49.00	I-49	RT	869				9				
65, 66	764+88.00	–	771+74.00	I-49	LT	756				8				
65, 66	764+98.00	–	772+53.00	I-49	LT					0	755			
65, 66	764+98.00	–	772+53.00	I-49	RT					0	755			
66	768+00.00	–	769+20.00	I-49	LT		4			4				
66	768+18.00			I-49	RT				37	10				
66	770+53.00	–	771+65.00	I-49	LT		5			5				
66	772+00.00			I-49	LT								71	
66	772+00.00			I-49	RT								64	
66	773+02.00	–	775+00.00	I-49	RT		4			4				
66	773+40.00	–	778+58.00	I-49	RT	518				5				
66	773+91.00	–	781+83.00	I-49	LT		13			13				
66	774+11.00	–	779+42.00	I-49	LT	532				5				
				SHEET TOTAL =		10559	174	0	55	330	4937	896	1266	
				SUBTOTAL =		10559	174	0	55	330	4937	896	1266	

DATE PREPARED 02/04/2010

ROUTE 49 | STATE MO

DISTRICT 7 | SHEET NO. 3

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

REV.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	TYPE II DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	TYPE "B" TEMP. BERM (L.F.)	SEDIMENT BASIN (CUYD)	SLOPE DRAINS (L.F.)	REMARKS
66	775+00.00	-	778+00.00	I-49	RT		3			3				
66	778+90.00	-	779+40.00	I-49	RT		3			3				
66	779+97.00	-	783+11.00	I-49	LT	336				3				
66	780+06.00	-	781+38.00	I-49	RT		3			3				
66	781+49.00	-	786+00.00	I-49	RT						451			
66	781+57.00	-	785+87.00	I-49	RT	524				5				
66	782+00.00	-	784+00.00	I-49	LT						200			
66	782+04.00	-	783+31.00	I-49	LT	149				1				INSIDE OF DITCH
66	782+50.00			I-49	RT		1			1				
66	782+85.00	-	783+10.00	I-49	LT		2			2				
66	783+06.00	-	784+04.00	I-49	LT	146				1				
66	783+25.00	-	783+50.00	I-49	RT		2			2				
66	784+10.00	-	792+42.00	I-49	LT	857				9				
66	784+11.00			I-49	RT				12					
66	784+40.00	-	790+34.00	I-49	LT		10			10				
66	784+41.00	-	784+66.00	I-49	RT		2			2				
66	785+41.00			I-49	RT		1			1				
66, 67	786+13.00	-	791+94.00	I-49	RT	616				6				
66	786+45.00	-	789+75.00	I-49	RT		6			6				
66, 67	790+00.00	-	798+00.00	I-49	RT						800			
66, 67	790+10.00	-	797+77.00	I-49	RT	819				8				
66, 67	790+75.00			I-49	RT		1			1				
67	791+00.00			I-49	LT		1			1				
67	791+32.00	-	799+73.00	I-49	LT	954				10				
67	791+50.00	-	791+75.00	I-49	RT		2			2				
67	791+91.00			I-49	RT				43					
67	792+50.00	-	792+75.00	I-49	LT		2			2				
67	793+30.00			I-49	LT		1			1				
67	793+75.00			I-49	RT		1			1				
67	794+10.00	-	794+88.00	I-49	LT		4			4				
67	795+00.00			I-49	RT					10		489		
67	795+00.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
67	795+35.00	-	796+75.00	I-49	LT		5			5				
67	796+00.00			I-49	LT								83	
67	796+50.00	-	796+75.00	I-49	RT		2			2				
67	797+00.00			I-49	LT					10		370		
67	797+33.00			I-49	℄			1		1				DROP INLET PROTECTION
67	798+25.00	-	798+50.00	I-49	LT		2			2				
67	798+25.00	-	800+25.00	I-49	RT		2			2				
67	798+53.65			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
67	799+74.00			I-49	℄			1		1				DROP INLET PROTECTION
67	800+00.00	-	815+39.00	I-49	LT		28			28				
67	801+58.00	-	803+58.00	I-49	RT		3			3				
67	802+00.00			I-49	℄			1		1				DROP INLET PROTECTION
67	803+58.00	-	805+56.00	I-49	RT		3			3				
67	805+56.00	-	816+96.00	I-49	RT		20			20				
67	806+00.00			I-49	℄			1		1				DROP INLET PROTECTION
67	810+00.00			I-49	℄			1		1				DROP INLET PROTECTION
67	814+00.00			I-49	℄			1		1				DROP INLET PROTECTION
67, 68	816+01.00	-	820+45.00	I-49	LT	516				5				
67	816+50.00			I-49	LT		1			1				
67	817+00.00			I-49	LT		1			1				
67, 68	817+00.00	-	821+00.00	I-49	RT						400			
67, 68	817+49.00	-	820+88.00	I-49	RT	402				4				
67	817+70.00	-	817+95.00	I-49	LT		2			2				
67	818+00.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
67	818+35.00			I-49	RT				18	10				
67	818+50.00			I-49	LT		1			1				
68	819+00.00			I-49	RT		1			1				
68	819+00.00	-	819+25.00	I-49	LT		2			2				
68	819+25.00			I-49	RT		1			1				
68	820+00.00			I-49	RT		1			1				
68	820+75.00	-	829+30.00	I-49	LT		16			16				
68	821+25.00	-	829+23.00	I-49	RT		15			15				
68	829+94.00	-	839+61.00	I-49	LT	1040				10				
68	829+99.00	-	832+51.00	I-49	LT						252			
68	830+00.00	-	835+66.00	I-49	RT	697				7				
68	831+10.00			I-49	℄			1		1				DROP INLET PROTECTION
68	830+50.00	-	830+75.00	I-49	RT		2			2				
68	830+63.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
68	830+78.00			I-49	℄			1		1				DROP INLET PROTECTION
68	830+90.00			I-49	LT		1			1				
68	831+25.00	-	831+50.00	I-49	LT		2			2				
68	831+50.00			I-49	℄			1		1				DROP INLET PROTECTION
68	831+50.00	-	831+75.00	I-49	RT		2			2				
68	832+27.00			I-49	RT				13	10				
68	832+50.00	-	832+75.00	I-49	RT		2			2				
68	832+50.00			I-49	LT					10		333		
68	833+00.00			I-49	℄			1		1				DROP INLET PROTECTION
68	833+50.00	-	833+75.00	I-49	RT		2			2				
68	834+40.00	-	839+20.00	I-49	LT		7			7				
68	834+50.00			I-49	RT		1			1				
68	835+50.00			I-49	℄			1		1				DROP INLET PROTECTION
68	836+00.00	-	838+28.00	I-49	RT		5			5				
68	838+80.00	-	842+41.00	I-49	RT	414				4				
68	840+00.00	-	857+39.00	I-49	LT						1740			
68	840+28.00	-	841+38.00	I-49	LT	188				2				
68	840+50.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
68, 69	841+47.00	-	857+39.00	I-49	LT	1662				17				
68	841+75.00			I-49	LT		1			1				
68	842+10.00	-	842+35.00	I-49	LT		2			2				
					SHEET TOTAL =	9320	183	16	86	342	3843	1193	83	
					SUBTOTAL =	19879	357	16	141	672	8780	2088	1349	

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	TYPE II DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	TYPE "B" TEMP. BERM (L.F.)	SEDIMENT BASIN (CUYD)	SLOPE DRAINS (L.F.)	REMARKS
68	842+60.00			I-49	RT				31	10				
68, 69	842+99.00	-	847+69.00	I-49	RT	527				5				
68	843+00.00			I-49	LT								114	
68	843+00.00			I-49	RT								208	
68	843+50.00			I-49	LT		1			1				
68-72	843+65.00	-	943+90.00	I-49	RT		2			2				
68	844+25.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
68	844+85.00	-	845+10.00	I-49	LT		2			2				
68	845+25.00	-	846+25.00	I-49	RT		2			2				
68	845+60.00			I-49	LT					10		278		
69	847+25.00	-	849+25.00	I-49	LT		3			3				
69	847+25.00	-	848+25.00	I-49	RT		2			2				
69	847+50.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
69	848+00.00			I-49	LT								183	
69	849+03.00	-	855+14.00	I-49	RT	616				6				
69	849+50.00			I-49	LT		1			1				
69	849+81.00	-	857+79.00	I-49	RT		15			15				
69	850+75.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
69	851+00.00	-	851+25.00	I-49	LT		2			2				
69	853+00.00			I-49	LT								44	
69	853+25.00	-	857+25.00	I-49	LT		3			3				
69	853+42.00	-	857+39.00	I-49	LT	397				4				
69	853+50.00			I-49	LT					10		289		
69	858+50.00			I-49	RT					10		188		
69	864+47.00	-	866+75.00	I-49	LT		5			5				
69	866+00.00			I-49	RT		1			1				
69	867+10.00			I-49	RT					10		222		
69	867+40.00	-	868+60.00	I-49	LT		4			4				
69	868+30.00	-	869+80.00	I-49	RT		6			6				
69	869+75.00			I-49	LT		1			1				
69	870+28.00	-	871+89.00	I-49	RT		8			8				
69	873+75.00			I-49	LT		1			1				
69	874+50.00	-	874+75.00	I-49	LT		2			2				
69	874+50.00			I-49	RT		1			1				
70	875+25.00	-	876+25.00	I-49	LT		2			2				
70	877+25.00			I-49	LT					10		380		
70	877+75.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
70	878+00.00			I-49	RT		1			1				
70	878+50.00			I-49	RT					10		296		
70	879+25.00			I-49	℄			1		1				DROP INLET PROTECTION
70	880+00.00	-	884+00.00	I-49	LT		2			2				
70	880+25.00	-	887+85.00	I-49	RT		3			3				
70	880+50.00			I-49	℄			1		1				DROP INLET PROTECTION
70	882+00.00			I-49	℄			1		1				DROP INLET PROTECTION
70	883+00.00			I-49	℄			1		1				DROP INLET PROTECTION
70	884+00.00			I-49	℄			1		1				DROP INLET PROTECTION
70	885+75.00			I-49	℄			1		1				DROP INLET PROTECTION
70	887+25.00			I-49	℄			1		1				DROP INLET PROTECTION
70	889+75.00			I-49	℄			1		1				DROP INLET PROTECTION
70	891+25.00			I-49	℄			1		1				DROP INLET PROTECTION
70	891+53.00	-	894+16.00	I-49	RT						263			
70	891+53.00	-	894+28.00	I-49	RT	347				3				
70	893+00.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
70	894+17.00			I-49	RT								35	
70	894+35.00			I-49	RT		1			1				
70	894+50.00			I-49	℄			1		1				DROP INLET PROTECTION
70	894+75.00	-	895+00.00	I-49	LT		2			2				
70	894+82.00	-	896+14.00	I-49	RT		3			3				
70, 71	894+95.00	-	911+38.00	I-49	LT	1779				18				
70	894+99.00	-	901+07.00	I-49	LT						608			
70	895+75.00			I-49	LT		1			1				
70	895+95.00	-	899+07.00	I-49	LT	315				3				
70	896+00.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
70	896+14.00	-	897+40.00	I-49	RT		6			6				
70, 71	896+47.00	-	901+85.00	I-49	RT	738				7				
70	897+50.00			I-49	℄			1		1				DROP INLET PROTECTION
70	898+00.00			I-49	LT		1			1				
70	898+75.00	-	899+00.00	I-49	RT		2			2				
70	899+00.00	-	899+25.00	I-49	LT		2			2				
70	899+00.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
70	899+75.00	-	900+00.00	I-49	LT		2			2				
70	900+05.00	-	900+30.00	I-49	RT		2			2				
70	900+50.00	-	900+75.00	I-49	LT		2			2				
70	900+50.00			I-49	℄			1		1				DROP INLET PROTECTION
70	900+65.00			I-49	RT				15	10				
70	901+00.00			I-49	LT								54	
70, 71	901+35.00	-	907+86.00	I-49	LT	681				7				
70, 71	901+75.00			I-49	LT		1			1				
71	902+00.00			I-49	RT			1		1			30	DROP INLET PROTECTION
71	902+66.00			I-49	RT		1			1				
71	902+95.00	-	907+29.00	I-49	RT	467				5				
71	903+32.00	-	905+30.00	I-49	RT		4			4				
71	903+75.00	-	905+75.00	I-49	LT		2			2				
71	904+00.00			I-49	RT			1		1			30	DROP INLET PROTECTION
71	906+00.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
71	906+03.00	-	911+33.00	I-49	LT						531			
71	906+05.00	-	912+71.00	I-49	RT	806				8				
71	906+25.00	-	906+50.00	I-49	RT		2			2				
71	907+25.00	-	907+50.00	I-49	LT		2			2				
71	907+50.00	-	907+75.00	I-49	RT		2			2				
71	908+00.00			I-49	RT			1		1			30	DROP INLET PROTECTION
71	908+45.00	-	908+85.00	I-49	LT		3			3				
					SHEET TOTAL =	6673	119	23	46	289	1402	1653	728	
					SUBTOTAL =	26552	476	39	187	961	10182	3741	2077	

DATE PREPARED 02/04/2010
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 3
COUNTY McDONALD
JOB NO. J7P0601
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.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	TYPE II DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	TYPE "B" TEMP. BERM (L.F.)	SEDIMENT BASIN (CUYD)	SLOPE DRAINS (L.F.)	REMARKS
71	908+65.00	-	908+90.00	I-49	RT		2			2				
71	909+25.00			I-49	LT		1			1				
71	909+42.00			I-49	RT				37					
71	909+65.00			I-49	RT		1			1				
71	909+75.00	-	910+00.00	I-49	LT		2			2				
71	910+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	910+25.00	-	910+50.00	I-49	RT		2			2				
71	911+00.00			I-49	LT								176	
71	911+00.00			I-49	RT								82	
71	911+10.00	-	911+60.00	I-49	LT		3			3				
71	911+25.00	-	911+50.00	I-49	RT		2			2				
71	912+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	912+25.00			I-49	LT		1			1				
71	912+50.00	-	912+75.00	I-49	RT		2			2				
71	912+91.00			I-49	LT		1			1				
71	913+50.00	-	928+70.00	I-49	LT		21			21				
71	913+50.00	-	929+34.00	I-49	RT		25			25				
71	914+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	916+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	918+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	920+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	922+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	925+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	926+25.00			I-49	℄			1		1				DROP INLET PROTECTION
71	927+50.00			I-49	℄			1		1				DROP INLET PROTECTION
71	928+50.00			I-49	℄			1		1				DROP INLET PROTECTION
71	929+00.00			I-49	℄			1		1				DROP INLET PROTECTION
71	929+41.92			I-49	℄			1		1				DROP INLET PROTECTION
71	929+87.00			I-49	℄			1		1				DROP INLET PROTECTION
71	929+50.00			I-49	LT		1			1				
71	930+75.00			I-49	℄			1		1				DROP INLET PROTECTION
72	931+75.00			I-49	℄			1		1				DROP INLET PROTECTION
72	932+75.00	-	933+75.00	I-49	LT		2			2				
72	932+75.00	-	933+75.00	I-49	RT		2			2				
72	932+98.00	-	940+59.00	I-49	LT					0	762			
72	933+14.00	-	941+12.00	I-49	RT	882				9				
72	933+29.00	-	940+47.00	I-49	LT	754				8				
72	934+25.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
72	934+50.00	-	934+75.00	I-49	LT		2			2				
72	934+50.00	-	934+75.00	I-49	RT		2			2				
72	935+55.00			I-49	RT		1			1				
72	935+60.00	-	937+80.00	I-49	LT		6			6				
72	935+90.00			I-49	RT				38					
72	936+00.00			I-49	℄			1		1				DROP INLET PROTECTION
72	936+10.00			I-49	RT		1			1				
72	936+20.00			I-49	RT					10		489		
72	938+00.00			I-49	LT								127	
72	938+00.00			I-49	LT		1	1		2				DROP INLET & OUTLET PROTECTION
72	938+00.00			I-49	RT								160	
72	938+05.00			I-49	LT		1			1				
72	938+10.00	-	938+35.00	I-49	RT		2			2				
72	938+36.00	-	940+27.00	I-49	LT	212				2				
72	939+25.00	-	939+50.00	I-49	LT		2			2				
72	939+25.00	-	939+50.00	I-49	RT		2			2				
72	940+10.00	-	940+35.00	I-49	LT		2			2				
72	940+50.00	-	940+75.00	I-49	RT		2			2				
72	940+50.00			I-49	℄			1		1				DROP INLET PROTECTION
72	941+15.00	-	941+81.00	I-49	RT	78				1				
72	941+25.00	-	948+25.00	I-49	LT		15			15				
72	941+90.00			I-49	RT		1			1				
72	942+32.00	-	955+43.00	I-49	RT		24			24				
72	948+25.00	-	957+37.00	I-49	LT		16			16				
72, 73	955+98.00	-	959+02.00	I-49	RT						304			
72	956+10.00	-	958+78.00	I-49	RT	358				4				
72	956+15.00	-	956+40.00	I-49	RT		2			2				
72	956+40.00	-	957+20.00	I-49	RT		2			2				
72	957+75.00	-	958+00.00	I-49	RT		2			2				
72	958+25.00			I-49	LT		1			1				
72	958+46.00			I-49	RT									
72, 73	958+62.00	-	963+54.00	I-49	LT	532				5				
72, 73	958+82.00	-	961+67.00	I-49	LT		6			6				
73	959+08.00	-	962+50.00	I-49	RT		7			7				
73	959+35.00	-	965+11.00	I-49	RT	634				6				
73	960+99.00	-	966+01.00	I-49	LT						502			
73	961+54.00	-	985+42.00	I-49	LT	2496				25				
73	962+01.00	-	966+59.00	I-49	RT						458			
73	962+35.00	-	962+60.00	I-49	LT		2			2				
73	962+65.00	-	976+50.00	I-49	RT	1559				16				
73	963+00.00	-	963+25.00	I-49	RT		2			2				
73	963+35.00	-	963+60.00	I-49	LT		2			2				
73	964+00.00	-	964+25.00	I-49	RT		2			2				
73	964+10.00	-	964+35.00	I-49	LT		2			2				
73	965+00.00	-	965+25.00	I-49	RT		2			2				
73	965+10.00	-	965+35.00	I-49	LT		2			2				
73	965+81.00			I-49	RT				18	10				
73	967+19.00	-	976+50.00	I-49	RT		8			8				
73	967+33.00	-	973+98.00	I-49	LT		6			6				
73	973+98.00	-	974+98.00	I-49	LT		2			2				
73	974+98.00	-	980+30.00	I-49	LT		4			4				
73	976+50.00	-	977+50.00	I-49	RT		4			4				
73, 74	976+79.00	-	986+93.00	I-49	RT	1042				10				
73	978+00.00			I-49	℄			1		1				DROP INLET PROTECTION
73	978+25.00	-	979+75.00	I-49	RT		2			2				
					SHEET TOTAL =	8547	209	21	93	335	2026	489	545	
					SUBTOTAL =	35099	685	60	280	1296	12208	4230	2622	

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	TYPE II DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	TYPE "B" TEMP. BERM (L.F.)	SEDIMENT BASIN (CUYD)	SLOPE DRAINS (L.F.)	REMARKS
73	978+40.00	-	980+54.00	I-49	RT	221				2				
73, 74	980+00.00	-	987+30.00	I-49	RT						730			
73	980+25.00	-	980+50.00	I-49	RT		2			2				
74	981+50.00	-	981+75.00	I-49	RT		2			2				
74	981+63.00	-	982+96.00	I-49	LT		2			2				
74	982+25.00	-	982+75.00	I-49	RT		3			3				
74	982+94.00	-	987+29.00	I-49	LT						435			
74	983+25.00	-	983+50.00	I-49	LT		2			2				
74	983+34.00	-	987+19.00	I-49	LT	418				4				
74	983+60.00	-	983+85.00	I-49	LT		2			2				
74	984+00.00	-	986+00.00	I-49	RT		2			2				
74	984+00.00			I-49	RT					10		511		
74	984+85.00	-	985+10.00	I-49	LT		2			2				
74	985+00.00			I-49	RT								157	
74	986+00.00			I-49	RT		1	1		2				DROP INLET & OUTLET PROTECTION
74	986+10.00	-	986+60.00	I-49	LT		3			3				
74	986+58.00			I-49	RT				42					
75	45+00.00			RTE. 90	LT		1			1				
75	46+00.00			RTE. 90	RT		1			1				
75	47+50.00			RTE. 90	LT		1			1				
75	47+75.00			RTE. 90	RT		1			1				
75	55+00.00			RTE. 90	LT		1			1				
75	55+00.00			RTE. 90	RT		1			1				
75	56+35.00	-	56+65.00	RTE. 90	LT		2			2				
75	56+35.00	-	56+65.00	RTE. 90	RT		2			2				
76	59+00.00			RTE. 90	LT		1			1				
76	60+10.00			RTE. 90	LT		1			1				
76	60+17.00			RTE. 90	RT		1			1				
76	60+47.00			RTE. 90	RT		1			1				
76	60+72.00			RTE. 90	RT		1			1				
69	1000+00.00	-	1009+59.00	RAMP 1	LT						959			
69	1000+00.00	-	1014+79.00	RAMP 1	LT	1472				15				
69	1000+00.00	-	1009+59.00	RAMP 1	LT	955				10				
69	1001+00.00			RAMP 1	LT								46	
69	1001+90.00	-	1005+90.00	RAMP 1	LT		3			3				
69	1006+00.00			RAMP 1									59	
69	1007+25.00			RAMP 1	LT					10		267		
69	1008+85.00	-	1009+10.00	RAMP 1	LT		2			2				
69	1009+70.00			RAMP 1	LT					10		222		
69	1009+85.00	-	1010+10.00	RAMP 1	RT		2			2				
69	1011+00.00	-	1013+00.00	RAMP 1	LT		3			3				
69	1011+00.00	-	1013+00.00	RAMP 1	RT		3			3				
69	1013+00.00	-	1015+00.00	RAMP 1	LT		4			4				
69	1013+00.00	-	1015+00.00	RAMP 1	RT		4			4				
69	2000+00.00	-	2001+76.00	RAMP 2	RT	173				2				
69	2003+04.00	-	2015+93.00	RAMP 2	RT	1490				15				
69	2003+07.00	-	2017+54.00	RAMP 2	RT						1447			
69	2003+10.00			RAMP 2	RT								34	
69	2004+00.00			RAMP 2	RT				24	10				
69	2004+85.00	-	2005+10.00	RAMP 2	RT		2			2				
69	2006+50.00	-	2006+75.00	RAMP 2	RT		2			2				
69	2008+00.00			RAMP 2	RT								106	
69	2008+50.00			RAMP 2	RT					10		370		
69	2009+75.00			RAMP 2	RT		1			1				
69	2011+75.00	-	2012+00.00	RAMP 2	RT		2			2				
69	2012+25.00			RAMP 2	RT					10		370		
69	2013+00.00			RAMP 2	RT								118	
69	2013+55.00	-	2014+75.00	RAMP 2	RT		5			5				
69	2015+05.00	-	2015+30.00	RAMP 2	RT		2			2				
69	2015+25.00	-	2015+50.00	RAMP 2	LT		2			2				
69	2016+35.00	-	2017+95.00	RAMP 2	RT		3			3				
69	2016+50.00			RAMP 2	LT		1			1				
69	2017+35.00	-	2017+60.00	RAMP 2	LT		2			2				
69	3000+51.00			RAMP 3	LT		1			1				
69, 70	3000+59.00	-	3022+11.00	RAMP 3	LT	2203				22				
69, 70	3001+10.00	-	3022+11.00	RAMP 3	LT						2102			
69	3001+84.00			RAMP 3	LT		1			1				
70	3003+17.00			RAMP 3	LT		1			1				
70	3004+50.00	-	3004+75.00	RAMP 3	LT		2			2				
70	3005+75.00	-	3006+00.00	RAMP 3	LT		2			2				
70	3006+00.00			RAMP 3	LT								167	
70	3007+00.00	-	3007+25.00	RAMP 3	LT		2			2				
70	3007+54.00	-	3009+50.00	RAMP 3	LT		8			8				
70	3010+00.00			RAMP 3	LT					10		317		
70	3011+00.00			RAMP 3	LT								210	
70	3011+50.00	-	3011+75.00	RAMP 3	LT		2			2				
70	3013+00.00	-	3013+25.00	RAMP 3	LT		2			2				
70	3014+25.00	-	3014+50.00	RAMP 3	LT		2			2				
70	3015+50.00	-	3015+75.00	RAMP 3	LT		2			2				
70	3016+00.00			RAMP 3	LT								69	
70	3019+42.00			RAMP 3	LT		1			1				
70	3020+75.00			RAMP 3	LT		1			1				
70	3021+15.00			RAMP 3	LT								58	
69	4001+08.00			RAMP 4	RT						1769			
69, 70	4001+15.00	-	4014+92.00	RAMP 4	RT	1479				15				
69	4001+24.00	-	4001+80.00	RAMP 4	LT		3			3				
69	4001+25.00			RAMP 4	RT		1			1				
70	4002+08.00	-	4003+20.00	RAMP 4	LT		5			5				
70	4002+25.00	-	4002+50.00	RAMP 4	RT		2			2				
					SHEET TOTAL =	8411	117	1	66	272	7442	2058	1024	
					SUBTOTAL =	43510	802	61	346	1568	19650	6288	3646	

DATE PREPARED 02/04/2010
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 3
COUNTY McDONALD
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DESCRIPTION

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

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	TYPE II DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	TYPE "B" TEMP. BERM (L.F.)	SEDIMENT BASIN (CUYD)	SLOPE DRAINS (L.F.)	REMARKS
70	4003+20.00	-	4007+00.00	RAMP 4	LT		10			10				
70	4003+65.00	-	4003+90.00	RAMP 4	RT		2			2				
70	4004+41.00	-	4012+95.00	RAMP 4	RT	859				9				
70	4004+50.00	-	4012+50.00	RAMP 4	RT		5			5				
70	4006+00.00			RAMP 4	RT								234	
70	4011+00.00			RAMP 4	RT								197	
70	4013+50.00	-	4013+75.00	RAMP 4	RT		2			2				
70	4014+50.00	-	4014+75.00	RAMP 4	RT		2			2				
70	4014+65.00	-	4018+77.00	RAMP 4	RT	445				4				
70	4015+00.00			RAMP 4	RT					10		889		
70	4016+00.00			RAMP 4	RT								365	
70	4016+78.00			RAMP 4	RT				54	10				
76	699+90.00	-	710+33.00	SUMNER CO. RD.	LT	1061				11				
76	699+90.00	-	710+72.00	SUMNER CO. RD.	RT	1104				11				
76	700+00.00	-	710+00.00	SUMNER CO. RD.	LT		11			11				
76	700+00.00	-	710+00.00	SUMNER CO. RD.	RT		11			11				
77	700+50.00	-	710+84.00	KELLEY CO. RD.	LT	1103				11				
77	700+50.00	-	710+40.00	KELLEY CO. RD.	RT	984				10				
77	700+52.00	-	701+18.00	KELLEY CO. RD.	LT		2			2				
77	700+52.00	-	701+18.00	KELLEY CO. RD.	RT		2			2				
77	701+59.00			KELLEY CO. RD.	LT		1			1				
77	701+59.00			KELLEY CO. RD.	RT		1			1				
77	703+05.00	-	704+05.00	KELLEY CO. RD.	LT		2			2				
77	703+05.00	-	704+05.00	KELLEY CO. RD.	RT		2			2				
77	704+05.00	-	707+25.00	KELLEY CO. RD.	LT		8			8				
77	704+05.00	-	707+25.00	KELLEY CO. RD.	RT		8			8				
77	709+05.00			KELLEY CO. RD.	LT		1			1				
77	709+05.00			KELLEY CO. RD.	RT		1			1				
77	710+37.00			KELLEY CO. RD.	RT		1			1				
77	710+79.00			KELLEY CO. RD.	LT		1			1				
				SHEET TOTAL =		5556	73	0	54	149	0	889	796	
				TOTAL =		49066	875	61	400	1717	19650	7176	4442	

CONDUCTORS

SHEET	RTE.	CIRCUIT	CONTROLLER OR POLE TO POLE (FT.)	1" CABLE-CONDUIT #6 AWG (FT.)	POWER #8 AWG (FT.)	TYPE I TRENCHING (FT.)	REMARKS
78	I-49 NBL	PWR	15.1		89.6	13.1	POWER SUPPLY TO CONTROLLER
78	I-49 NBL	1	129.3	149.8		127.3	I-49 NBL, CONTROLLER 1 TO POLE 1, 1-PULL BOX
78	I-49 NBL	1	404.7	424.9		400.7	I-49 NBL, POLE 1 TO POLE 2, 0-PULL BOX
78	I-49 NBL	1	700.7	741.7		698.7	I-49 NBL, PULL BOX 2 TO POLE 3
78	I-49 NBL	2	825.3	872.6		823.3	I-49 SBL, CONTROLLER 1 TO PULL BOX 5
78	I-49 NBL	2	251.4	258.5		249.4	I-49 SBL, PULL BOX 5 TO POLE 4
78	I-49 NBL	2	345.3	368.6		343.3	I-49 SBL, PULL BOX 5 TO POLE 5
80	RTE 90	PWR	15.2		89.9	13.0	POWER SUPPLY TO CONTROLLER 2
79, 80	I-49@90	1	2362.3	2524.4		2360.3	RAMP 1, CONTROLLER 2 TO POLE 6, 6-PULL BOXES
79	I-49@90	1	782.1	833.2		780.1	RAMP 1 & 2, POLE 6 TO POLE 7, 2-PULL BOXES
80, 81	I-49@90	2	2074.2	2232.7		2222.4	RAMP 3, CONTROLLER 2 TO POLE 10, 7-PULL BOXES
81	I-49@90	2	717.8	765.7		715.8	RAMP 3 & 4, POLE 10 TO POLE 11, 2-PULL BOXES
80	RTE 90	3	516.8	580.6		514.8	CONTROLLER TO POLE 9, 5-PULL BOXES
80	RTE 90	3	552.4	592		550.4	POLE 9 TO POLE 8, 2-PULL BOXES
			TOTAL =	10344.7	179.5	9812.6	
			USE =	10350	180	9813	

BASE MOUNTED CONTROL STATION

SHEET	RTE.	STATION	LOC. (FT.)	BASE MOUNTED CONTROL STA. 240 VOLT STD. 901.30 (EA.)	REMARKS
78	I-49 NBL	728+10	125 LT	1	CONTROLLER 1
80	RTE 90	55+15	100 LT	1	CONTROLLER 2
			TOTAL =	2	

POWER SUPPLY ASSEMBLY

SHEET	RTE.	STATION	LOC. (FT.)	BASE MOUNTED POWER SUPPLY 240 / 120 VOLT STD. 901.12 (EA.)	REMARKS
78	I-49 NBL	728+10	140 LT	1	FOR CONTROLLER 1
80	RTE 90	55+30	100 LT	1	FOR CONTROLLER 2
			TOTAL =	2	

RIGID CONDUIT

SHEET	RTE.	STATION	LOCATION (FT.)	CONDUIT NO.	4" PUSHED CONDUIT (FT.)	4" CONDUIT IN TRENCH (FT.)	3" CONDUIT IN TRENCH (FT.)	2" CONDUIT IN TRENCH (FT.)	REMARKS
78	I-49 NBL	728+10	150 LT	1				25.0	POWER SOURCE TO CONTROLLER 1
78	I-49 NBL	728+10	125 LT	2			25.0		CONTROLLER 1 TO PULL BOX 1
78	I-49 NBL	728+00	100 LT TO 72 RT	3			110.0		PULL BOX 1 TO POLE 1
78	I-49 NBL	729+10	72 LT TO 10 RT	4	82.0				POLE 1 TO PULL BOX 3
78	I-49 NBL	724+00	70 LT TO 15 RT	5	85.0				PULL BOX 5 TO POLE 6
80	RTE 90	55+30	104 LT	6				14.0	POWER SOURCE TO CONTROLLER 2
80	RTE 90	55+15	100 LT	7			38.0		CONTROLLER 2 TO PULL BOX 7
80	RTE 90	54+80	100 LT	8			87.0		PULL BOX 7 TO PULL BOX 8
80	I-49	855+15	53 LT TO 53 RT	9		106.0			PULL BOX 12 TO PULL BOX 13
80	RTE 90	55+00	17 LT TO 17 RT	10		34.0			PULL BOX 8 TO PULL BOX 14
80	RAMP 3	3001+09	12 LT TO 22 RT	11		34.0			PULL BOX 15 TO PULL BOX 16
80	I-49	875+00	53 LT TO 53 RT	12		106.0			PULL BOX 17 TO PULL BOX 18
80	RAMP 3	3001+10	53 LT TO 53 RT	13		106.0			PULL BOX 22 TO PULL BOX 23
				TOTAL =	167.0	386.0	260.0	39.0	
				USE =	167	386	260	39	

POLES, FOUNDATION, & APPURTENANCE FOR 45' MOUNTING HEIGHT

SHEET	POLE NO.	RTE.	CIRCUIT	STATION	LOC. (FT.)	45' M.H. TYPE A.T. LIGHT POLE (EA.)	POLE DESIGN NO.	BRACKET ARM 15' (EA.)	250 WATT TYPE III-M-S LUMINAIRE (EA.)	#10 AWG CABLE 1 COND. POLE & BRACKET (FT.)	POLE FOUNDATION (EA.)	REMARKS
78	1	I-49 NBL	1	729+00	72 LT	1	3	1	1	120	1	I-49 SBL AT RTE 71 SBL
78	2	I-49 NBL	1	725+00	62 LT	1	3	1	1	120	1	I-49 SBL AT RTE 71 SBL
78	3	I-49 NBL	1	718+00	51 LT	1	3	1	1	120	1	I-49 NBL AT RTE 71 NBL
78	4	I-49 SBL	2	721+50	62 LT	1	3	1	1	120	1	I-49 NBL AT RTE 71 NBL
78	5	I-49 SBL	2	721+50	14 RT	1	3	1	1	120	1	I-49 NBL AT RTE 71 NBL
79	6	I-49	1	851+60	53 LT	1	3	1	1	120	1	I-49 RAMP 1 AT RTE 90
79	7	RAMP 2	1	2003+20	22 RT	1	3	1	1	120	1	I-49 RAMP 2 AT RTE 90
80	8	RTE 90	3	47+35	17 RT	1	3	1	1	120	1	RAMP 4 END AT RTE 90
80	9	RTE 90	3	52+60	17 RT	1	3	1	1	120	1	RAMP 3 END AT RTE 90
81	10	RAMP 3	2	3018+40	12 LT	1	3	1	1	120	1	I-49 RAMP 3 AT RTE 90
81	11	I-49	2	897+30	53 RT	1	3	1	1	120	1	I-49 RAMP 4 AT RTE 90
					TOTAL =	11		11	11	1320	11	

PREFORMED PULL BOX

SHEET	P.B. NO.	RTE.	STATION	LOCATION (FT.)	DRAIN TYPE	CLASS	EACH	REMARKS
78	1	I-49 NBL	728+00	100 LT	I	2	1	I-49 NBL AT RTE 71 NBL
78	2	I-49 NBL	725+00	55 LT	I	2	1	I-49 NBL AT RTE 71 NBL
78	3	I-49 NBL	729+10	10 RT	I	2	1	I-49 NBL AT RTE 71 NBL
78	4	I-49 SBL	726+25	150 RT	I	2	1	I-49 SBL AT RTE 71 SBL
78	5	I-49 SBL	724+00	70 LT	I	2	1	I-49 SBL AT RTE 71 SBL
78	6	I-49 NBL	724+00	15 RT	I	2	1	I-49 NBL AT RTE 71 NBL
79	10	RAMP 1	1006+00	12 LT	I	2	1	RAMP 1 AT RTE 90
79	11	RAMP 1	1001+90	12 LT	I	2	1	RAMP 1 AT RTE 90
79	12	I-49	855+15	53 LT	I	2	1	RAMP 1 AT RTE 90
79	13	I-49	855+15	53 RT	I	2	1	RAMP 2 AT RTE 90
80	7	RTE 90	54+80	100 LT	I	2	1	RTE 90 NEAR CONTROLLER
80	8	RTE 90	55+00	20 LT	I	2	1	RTE 90 NORTH SIDE
80	8A	RAMP 1	3+50	12 LT	I	2	1	RAMP 1 AT RTE 90
80	9	RAMP 1	1010+15	12 LT	I	2	1	RAMP 1 AT RTE 90
80	14	RTE 90	55+00	20 RT	I	2	1	RTE 90 SOUTH SIDE
80	15	RAMP 3	3001+10	12 LT	I	2	1	RAMP 3 AT RTE 90
80	16	RAMP 3	3001+10	22 LT	I	2	1	RAMP 3 AT RTE 90
80	17	I-49 NBL	874+00	55 LT	I	2	1	I-49 NBL
80	18	I-49 SBL	874+00	55 RT	I	2	1	I-49 SBL
81	19*	RAMP 3	3005+50	12 LT	I	2	1	RAMP 3 AT RTE 90
81	20	RAMP 3	3010+00	12 LT	I	2	1	RAMP 3 AT RTE 90
81	21	RAMP 3	3014+50	12 LT	I	2	1	RAMP 3 AT RTE 90
81	22	I-49	895+00	53 LT	I	2	1	RAMP 3 AT RTE 90
80	23	I-49	895+00	53 RT	I	2	1	RAMP 4 AT RTE 90
19* SEE NOTE ON SHEET 80 OR 81						TOTAL =	24	

DATE PREPARED 02/04/2010
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 3
COUNTY McDONALD
JOB NO. J7P0601
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.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUBGRADING AND SHOULDERING - CLASS 1						
SHEET	STATION	TO	STATION	RTE.	LENGTH (STA.)	REMARKS
4	729+20.22	-	734+10.94	I-49 NBL	4.9	
7	739+04.98	-	741+03.12	I-49 NBL	2.0	
4	723+02.82	-	724+34.49	I-49 SBL	1.3	
				SHEET TOTAL	8.2	
				TOTAL	8	

SUBGRADE COMPACTION - (6 INCH DEPTH)						
SHEET	STATION	TO	STATION	RTE.	LENGTH (STA.)	REMARKS
4	729+20.22	-	734+10.94	I-49 NBL	4.9	
7	739+04.98	-	741+03.12	I-49 NBL	2.0	
4	723+02.82	-	724+34.49	I-49 SBL	1.3	
				SHEET TOTAL	8.2	
				TOTAL	8	

COMPACTING IN CUT						
SHEET	STATION	TO	STATION	RTE.	LENGTH (STA.)	REMARKS
7	746+82.76	-	750+71.86	I-49 NBL	3.9	
7	750+88.38	-	751+52.04	I-49 NBL	0.6	
7	754+87.76	-	756+93.98	I-49 NBL	2.1	
7	761+76.62	-	763+31.55	I-49 NBL	1.5	
10	765+17.98	-	767+20.00	I-49 NBL	2	
4	736+15.06	-	736+73.83	I-49 SBL	0.6	
7	737+36.04	-	738+25.20	I-49 SBL	0.9	
7	741+65.33	-	742+97.44	I-49 SBL	1.3	
7	749+69.71	-	752+59.87	I-49 SBL	2.9	
7	754+32.27	-	755+00.47	I-49 SBL	0.7	
7, 10	759+12.37	-	764+93.73	I-49 SBL	5.8	
7, 10	764+93.73	-	765+18.80	I-49	0.3	
10	772+46.32	-	777+02.91	I-49	4.6	
10	778+59.38	-	780+09.93	I-49	1.5	
10	782+38.83	-	783+18.80	I-49	0.8	
10	783+88.90	-	784+66.04	I-49	0.8	
13	792+34.99	-	793+12.63	I-49	0.8	
13	797+77.02	-	800+26.09	I-49	2.5	
13	816+74.57	-	817+62.32	I-49	0.9	
13, 15	818+86.78	-	819+73.00	I-49	0.9	
15	829+41.00	-	830+49.27	I-49	1.1	
15	835+04.10	-	839+98.75	I-49	4.9	
17	848+27.80	-	860+21.92	I-49	11.9	
17, 21	866+01.76	-	879+95.43	I-49	13.9	
21	893+53.03	-	895+73.98	I-49	2.2	
21	901+22.13	-	902+06.39	I-49	0.8	
25	907+25.77	-	907+97.55	I-49	0.7	
25	911+00.97	-	911+66.67	I-49	0.7	
27	933+86.79	-	934+56.13	I-49	0.7	
27	938+57.57	-	939+99.59	I-49	1.4	
27	956+69.37	-	957+81.97	I-49	1.1	
27, 29	958+14.95	-	959+39.63	I-49	1.2	
29	962+97.57	-	963+66.18	I-49	0.7	
29	965+74.95	-	966+72.83	I-49	1	
29, 31	975+62.81	-	983+72.11	I-49	8.1	
33	43+25.00	-	48+92.93	RTE. 90	5.7	
33	53+31.00	-	61+00.00	RTE. 90	7.7	
17	1004+12.57	-	1007+95.82	RAMP 1	3.8	
17	1009+24.61	-	1015+67.89	RAMP 1	6.4	
17	2016+37.30	-	2018+25.32	RAMP 2	1.9	
17	3000+12.06	-	3000+68.05	RAMP 3	0.6	
17	4000+11.97	-	4001+17.81	RAMP 4	1.1	
35	700+00.00	-	710+72.04	SUMNER RD.	10.7	
36	700+50.00	-	710+74.03	KELLEY RD.	10.2	
				SHEET TOTAL	133.9	
				TOTAL	133.9	

EARTHWORK SUMMARY							
SHEET	STATION	TO	STATION	LOCATION	UNCLASSIFIED EXCAVATION (C.Y.)	COMPACTING EMBANKMENT (C.Y.)	REMARKS
4	729+20.22	-	735+52.78	I-49 NBL	2,501	2,077	
4,7	737+03.07	-	742+54.93	I-49 NBL	39070	34505	
7	742+54.93	-	743+47.39	I-49 NBL	581	54,944	
7	743+47.39	-	756+00.00	I-49 NBL	156,433	155,415	
7	756+00.00	-	762+42.06	I-49 NBL	5,794	171,109	
4, 7	723+02.82	-	738+52.31	I-49 SBL	44,979	432,883	
7, 10	738+52.31	-	764+93.73	I-49 SBL	198,202	175,604	
10, 13	764+93.74	-	803+88.18	I-49	634,424	613,171	
13	803+88.18	-	812+76.12	I-49	482,221	0	
13, 15, 17	812+76.12	-	848+00.00	I-49	479,653	479,653	
17, 21	848+00.00	-	885+08.96	I-49	276,360	240,313	
21, 25	885+08.96	-	928+31.27	I-49	854,466	926,423	
25, 27	928+31.27	-	958+50.00	I-49	771,357	183,441	
27, 29, 31	958+50.00	-	987+32.82	I-49	790,225	277,578	
33	43+25.00	-	49+25.25	RTE. 90	2,547	79	
33	50+79.76	-	51+89.81	RTE. 90	10	3,628	
33	51+89.81	-	61+00.00	RTE. 90	9,384	8,160	INCLUDES 2 DRIVEWAYS
17	1003+22.28	-	1015+67.89	RAMP 1	75,858	6,721	
17	2003+75.64	-	2018+25.32	RAMP 2	13,143	180,120	
21	3000+12.06	-	3017+79.76	RAMP 3	7,617	563,141	
21	4000+11.97	-	4015+00.89	RAMP 4	25,963	250,894	
35	700+00.00	-	710+72.04	SUMNER CO. RD.	540	660	
36	700+50.00	-	710+74.03	KELLEY CO. RD.	1,655	87	INCLUDES 4 DRIVEWAYS
10	0+00.00	-	1+59.37	GARDNER PRIVATE RD.	484	3,316	
				SUB-TOTAL	4,873,467	4,763,922	
				ROUNDING	3,734		ESTIMATED AT 500 CU.YD. PER MILE
				TOTAL	4,877,201	4,763,922	

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 3
COUNTY McDONALD	
JOB NO. J7P0601	
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DESCRIPTION

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

REV.

EFFECTIVE: 08-01-2009

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48X24	8.00					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	48X24	8.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	36X48	12.00					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1a	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2a	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	48X48	16.00	2	32.00			SPEED LIMIT 35 AHEAD (SYMBOL)
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00					BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-9a	48X48	16.00					SHOULDER DROP-OFF
W08-11	48X48	16.00					UNEVEN LANES
W08-12	36X36	9.00					NO CENTER STRIPE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	48X48	16.00	2	32.00			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00	2	32.00			DETOUR AHEAD
W020-3	48X48	16.00	4	64.00			ROAD CLOSED AHEAD
W020-4	48X48	16.00	2	32.00			ONE LANE ROAD AHEAD
W020-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
W020-5a	48X48	16.00					RIGHT/CENTER/LEFT TWO LANES CLOSED AHEAD
W020-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	2	32.00			FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16.00			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
G023-1	36X12	3.00	2	6.00			WORK ZONE (PLAQUE)
M04-8a	24X18	3.00	2	6.00			END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	36X48	12.00	4	48.00			SPEED LIMIT 2-35 mph, 2-55 mph
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	4	40.00			ROAD CLOSED
R11-3a	60X30	12.50	4	50.00			ROAD CLOSED (XX) MILES AHEAD LOCAL TRAFFIC ONLY, (2@ 2.9, 1@ 4.6, 1@ 7.1)
R11-4	60X30	12.50	2	25.00			ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
	36X78	19.50	9	175.50			DETOUR SIGNS

616-10.05 CONSTRUCTION SIGNS TOTAL	591.0	
616-10.10 RELOCATED SIGNS TOTAL		

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
616-10.07		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
616-10.08	2	ADVANCED WARNING RAIL SYSTEM
616-10.09	14	FLAG ASSEMBLY
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.22		CHANNELIZER (CONES)
616-10.24	19	CHANNELIZER (TRIM LINE) WITH LIGHT
616-10.25		CHANNELIZER (TRIM LINE)
616-10.26		CHANNELIZER (VERTICAL PANEL)
616-10.27		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
616-10.28		CHANNELIZER
616-10.30		TYPE III MOVEABLE BARRICADE
616-10.31	16	TYPE III MOVEABLE BARRICADE WITH LIGHT
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE, WITH LIGHT
616-10.40		FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52		WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98	4	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
616-11.20	2	INSTALLING "DRIVE SMART", 48 IN. X 48 IN. SIGN
616-11.33A	2	INSTALLING "POINT OF PRESENCE", 96 IN. X 48 IN. SIGN
616-11.34	2	INSTALLING "POINT OF PRESENCE", 36 IN. X 48 IN. SIGN
617-36.00D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
617-36.02B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
617-40.00A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
617-50.10A		RELOCATING TEMPORARY TRAFFIC BARRIER
617-60.00B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
617-70.00B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	3
COUNTY	McDONALD
JOB NO.	J7P0601
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)

UTILITIES

ELECTRIC
NEW-MAC ELECTRIC CO-OP., INC.
P.O. BOX 310
NEOSHO, MO 64850
(417) 451-1515

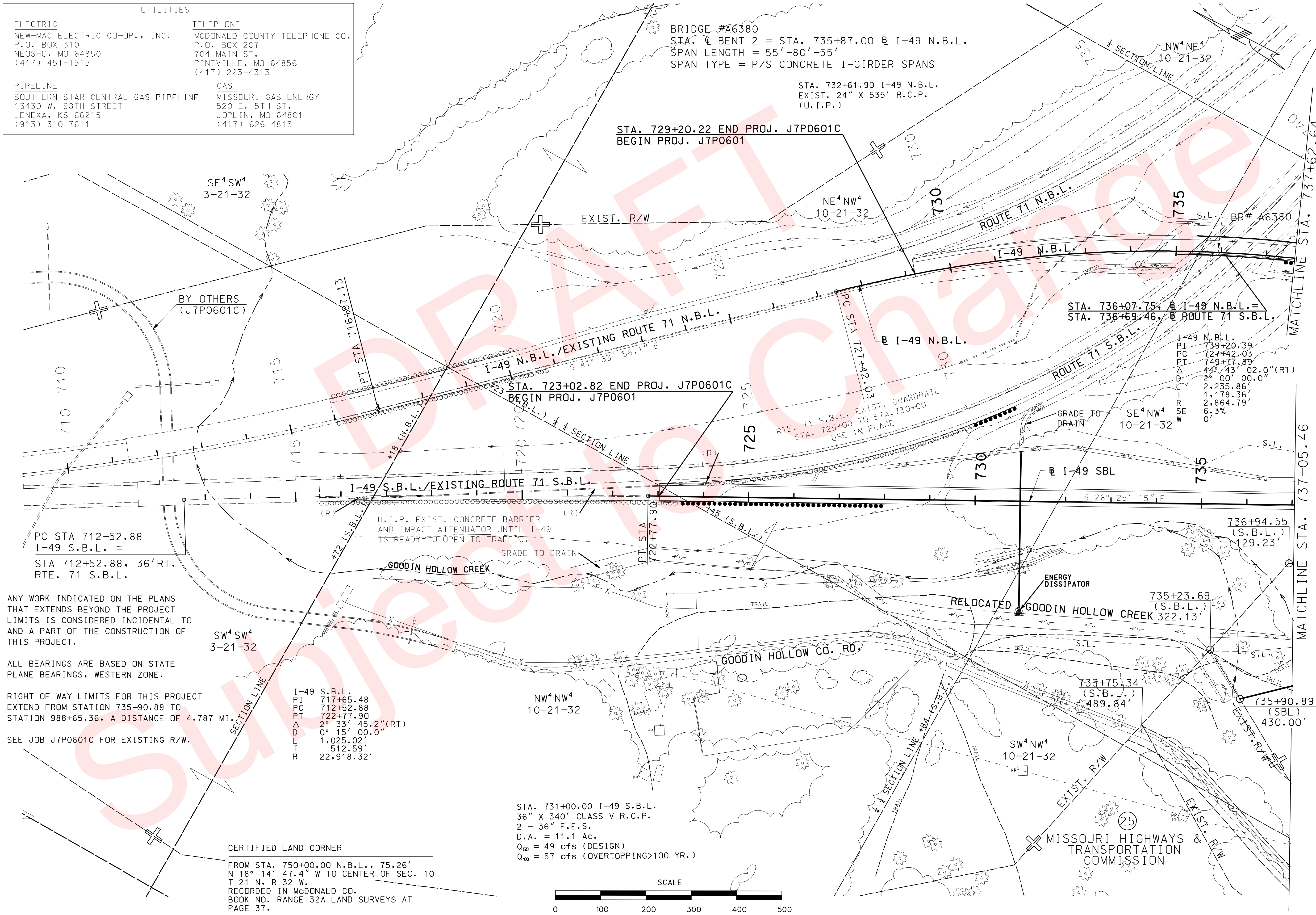
TELEPHONE
MCDONALD COUNTY TELEPHONE CO.
P.O. BOX 207
704 MAIN ST.
PINEVILLE, MO 64856
(417) 223-4313

PIPELINE
SOUTHERN STAR CENTRAL GAS PIPELINE
13430 W. 98TH STREET
LENEXA, KS 66215
(913) 310-7611

GAS
MISSOURI GAS ENERGY
520 E. 5TH ST.
JOPLIN, MO 64801
(417) 626-4815

BRIDGE #A6380
STA. ℄ BENT 2 = STA. 735+87.00 ℄ I-49 N.B.L.
SPAN LENGTH = 55'-80'-55'
SPAN TYPE = P/S CONCRETE I-GIRDER SPANS

STA. 732+61.90 I-49 N.B.L.
EXIST. 24" X 535' R.C.P.
(U.I.P.)



I-49 N.B.L.
PI 739+20.39
PC 727+42.03
PT 749+77.89
Δ 44° 43' 02.0"(RT)
D 2° 00' 00.0"
L 2,235.86'
T 1,178.36'
R 2,864.79'
SE 6.3%
W 0'

PC STA 712+52.88
I-49 S.B.L. =
STA 712+52.88, 36'RT.
RTE. 71 S.B.L.

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.

ALL BEARINGS ARE BASED ON STATE PLANE BEARINGS, WESTERN ZONE.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 735+90.89 TO STATION 988+65.36, A DISTANCE OF 4.787 MI.

SEE JOB J7P0601C FOR EXISTING R/W.

I-49 S.B.L.
PI 717+65.48
PC 712+52.88
PT 722+77.90
Δ 2° 33' 45.2"(RT)
D 0° 15' 00.0"
L 1,025.02'
T 512.59'
R 22,918.32'

STA. 731+00.00 I-49 S.B.L.
36" X 340' CLASS V R.C.P.
2 - 36" F.E.S.
D.A. = 11.1 Ac.
Q_{50} = 49 cfs (DESIGN)
Q_{100} = 57 cfs (OVERTOPPING>100 YR.)

CERTIFIED LAND CORNER
FROM STA. 750+00.00 N.B.L., 75.26'
N 18° 14' 47.4" W TO CENTER OF SEC. 10
T 21 N, R 32 W.
RECORDED IN McDONALD CO.
BOOK NO. RANGE 32A LAND SURVEYS AT
PAGE 37.

SCALE
0 100 200 300 400 500

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 4
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

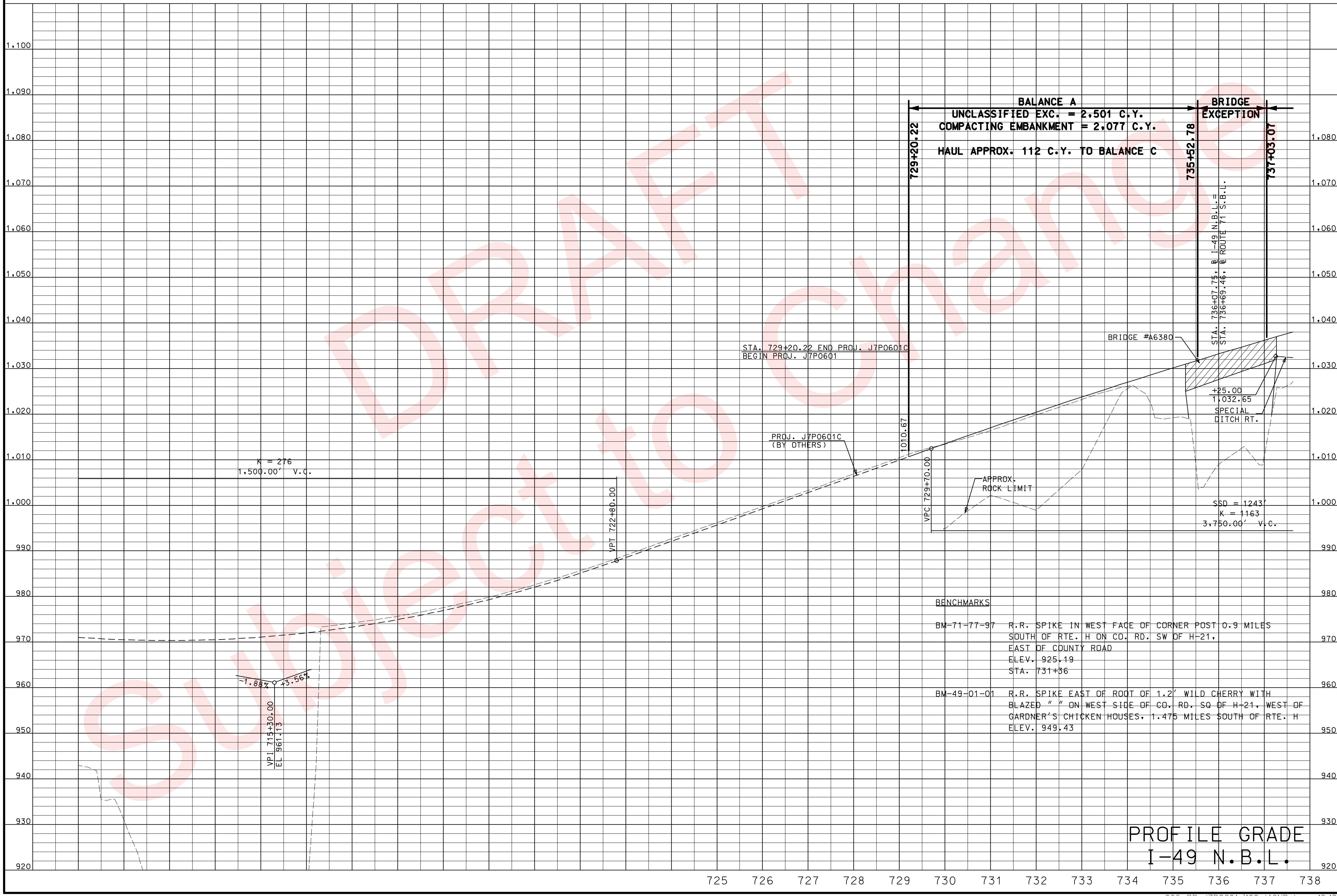
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 5
COUNTY MCDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



BENCHMARKS

BM-71-77-97 R.R. SPIKE IN WEST FACE OF CORNER POST 0.9 MILES SOUTH OF RTE. H ON CO. RD. SW OF H-21, EAST OF COUNTY ROAD
ELEV. 925.19
STA. 731+36

BM-49-01-01 R.R. SPIKE EAST OF ROOT OF 1.2' WILD CHERRY WITH BLAZED " " ON WEST SIDE OF CO. RD. SQ OF H-21, WEST OF GARDNER'S CHICKEN HOUSES, 1.475 MILES SOUTH OF RTE. H
ELEV. 949.43

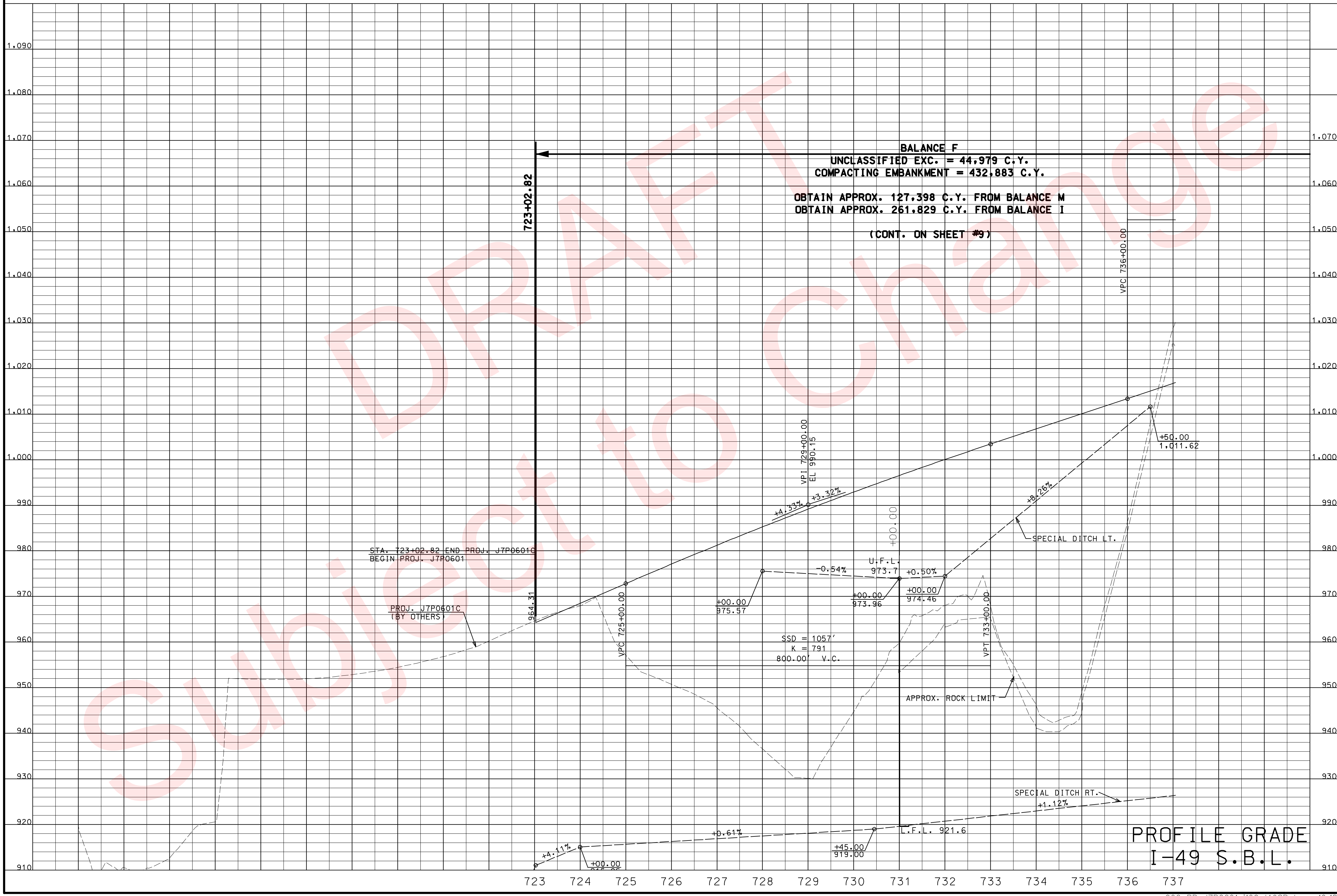
PROFILE GRADE
I-49 N.B.L.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



PROFILE GRADE
I-49 S.B.L.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 6
COUNTY MCDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

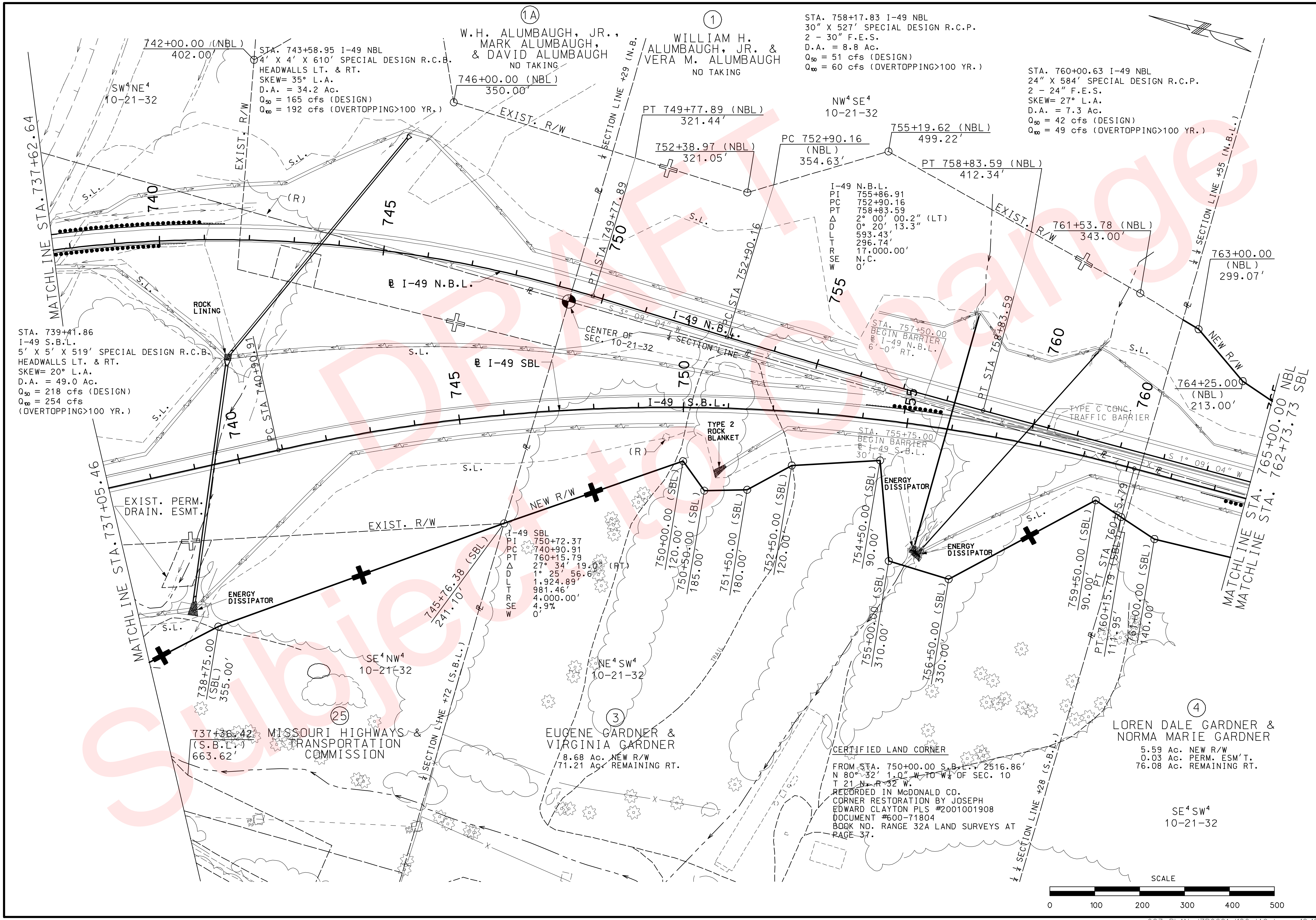
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

006_PR_J7P0601_i100_I49SB.dgn 10:18:08 AM 02/04/2010



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	7
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

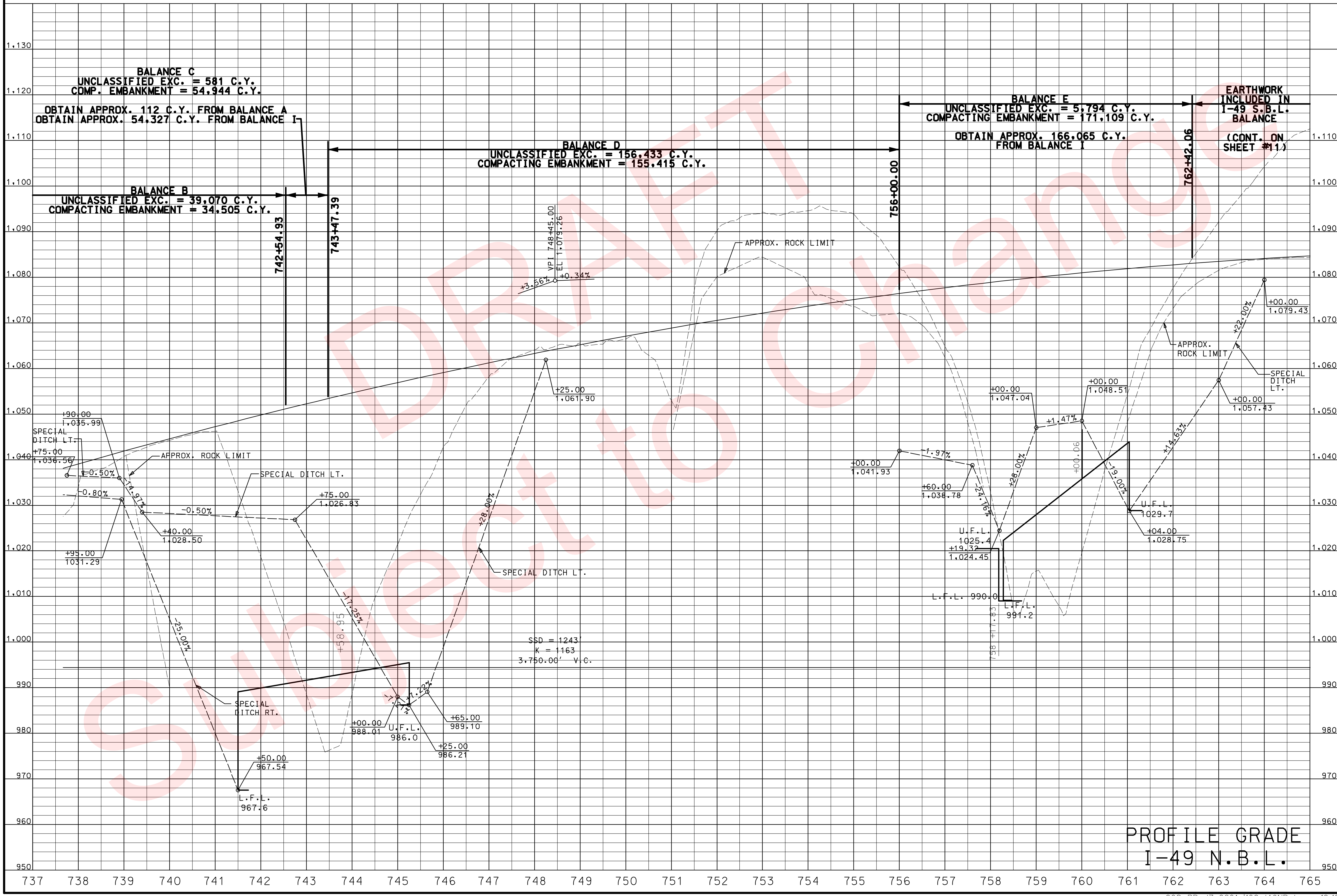
DESCRIPTION

DATE

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

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

REV.



PROFILE GRADE
I-49 N.B.L.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	8
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

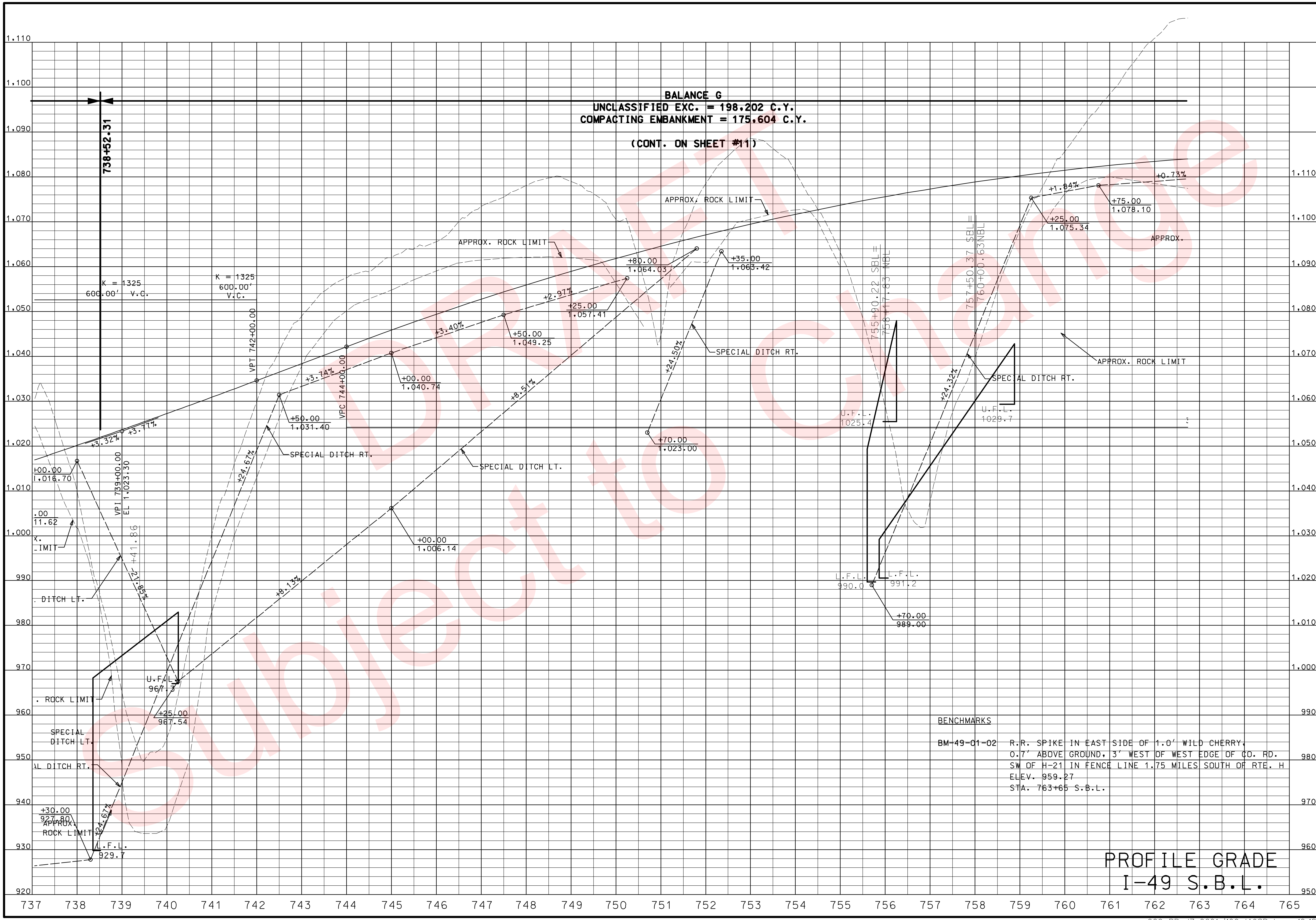
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

008_PR_J7p0601_i100_I49NB.dgn 10:18:18 AM 02/04/2010



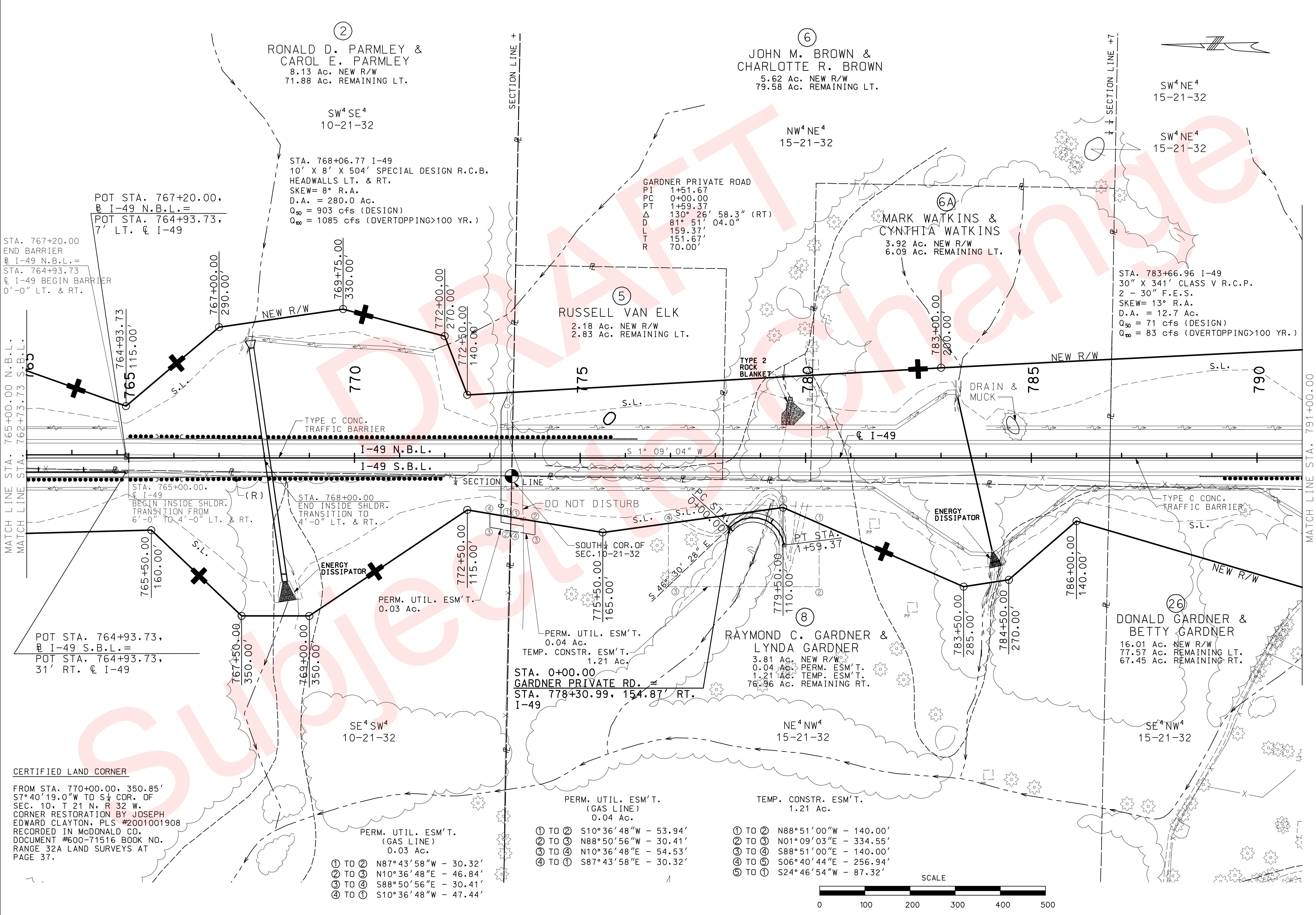
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	9
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



CERTIFIED LAND CORNER

FROM STA. 770+00.00, 350.85' S7°40'19.0"W TO S1/4 COR. OF SEC. 10, T 21 N, R 32 W. CORNER RESTORATION BY JOSEPH EDWARD CLAYTON, PLS #2001001908 RECORDED IN McDONALD CO. DOCUMENT #600-71516 BOOK NO. RANGE 32A LAND SURVEYS AT PAGE 37.

PERM. UTIL. ESM'T.
(GAS LINE)
0.03 Ac.

① TO ② N87°43'58"W - 30.32'
② TO ③ N10°36'48"E - 46.84'
③ TO ④ S88°50'56"E - 30.41'
④ TO ① S10°36'48"W - 47.44'

PERM. UTIL. ESM'T.
(GAS LINE)
0.04 Ac.

① TO ② S10°36'48"W - 53.94'
② TO ③ N88°50'56"W - 30.41'
③ TO ④ N10°36'48"E - 54.53'
④ TO ① S87°43'58"E - 30.32'

TEMP. CONSTR. ESM'T.
1.21 Ac.

① TO ② N88°51'00"W - 140.00'
② TO ③ N01°09'03"E - 334.55'
③ TO ④ S88°51'00"E - 140.00'
④ TO ⑤ S06°40'44"E - 256.94'
⑤ TO ① S24°46'54"W - 87.32'

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DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 10
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

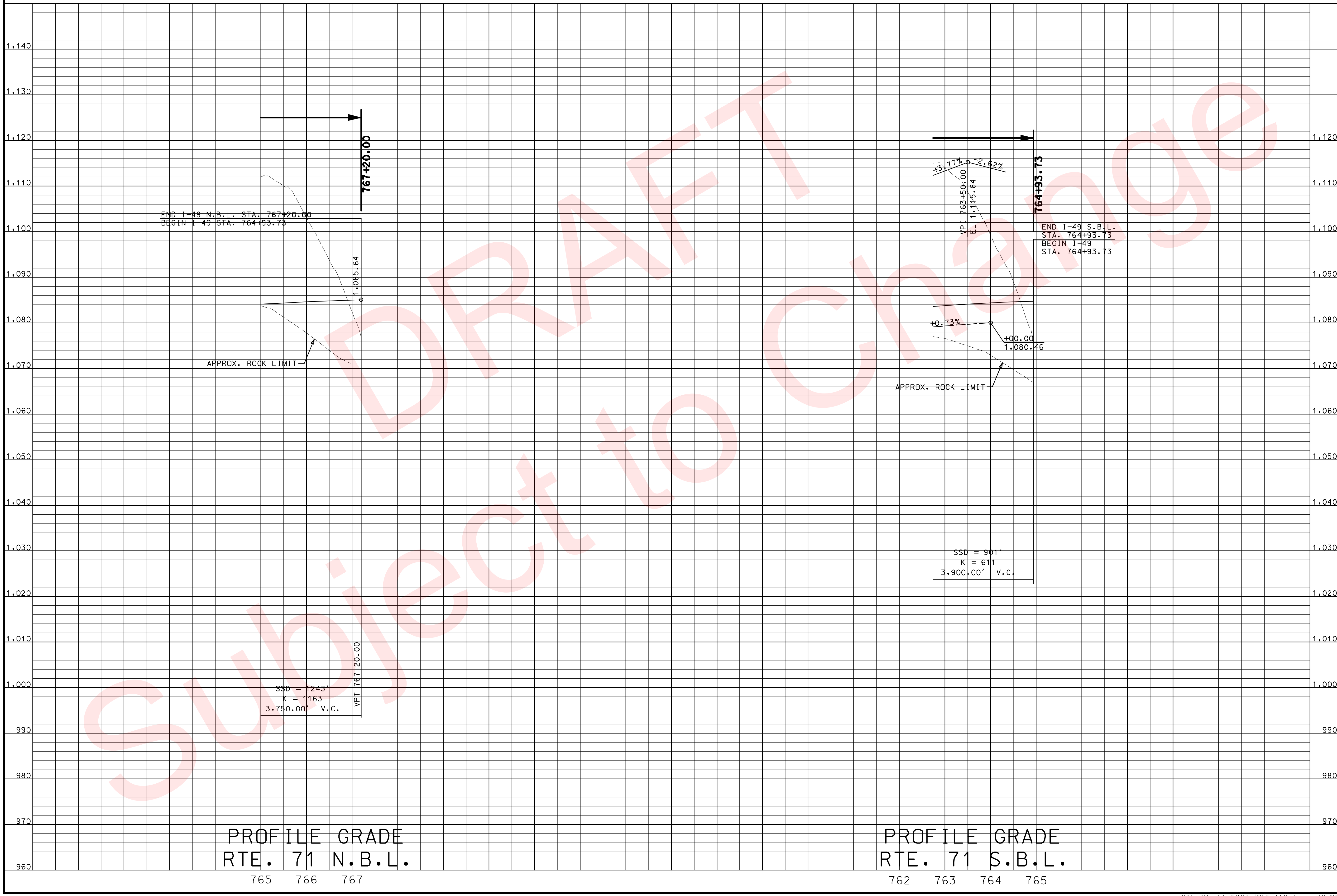
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 11
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

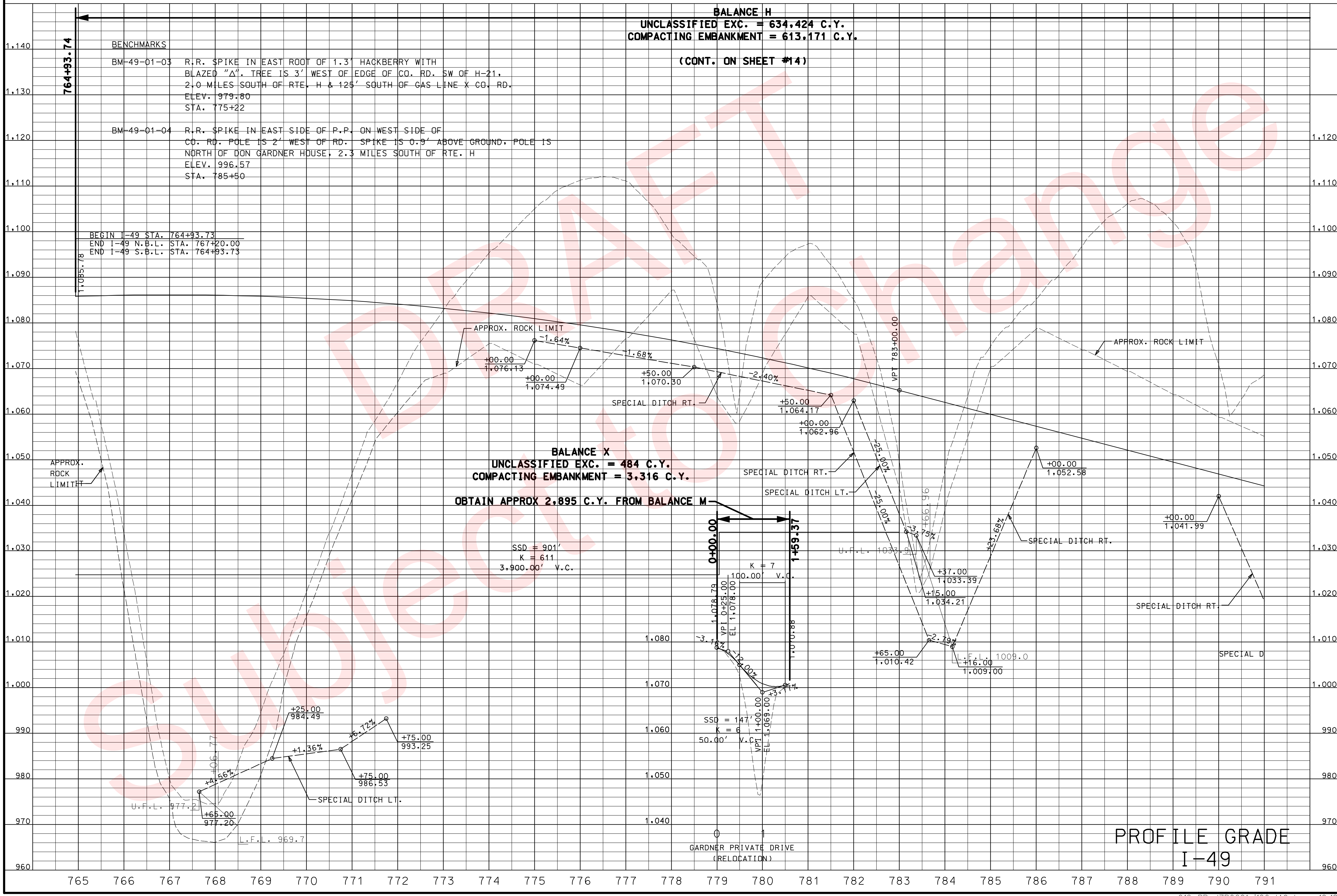
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.

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



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	12
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

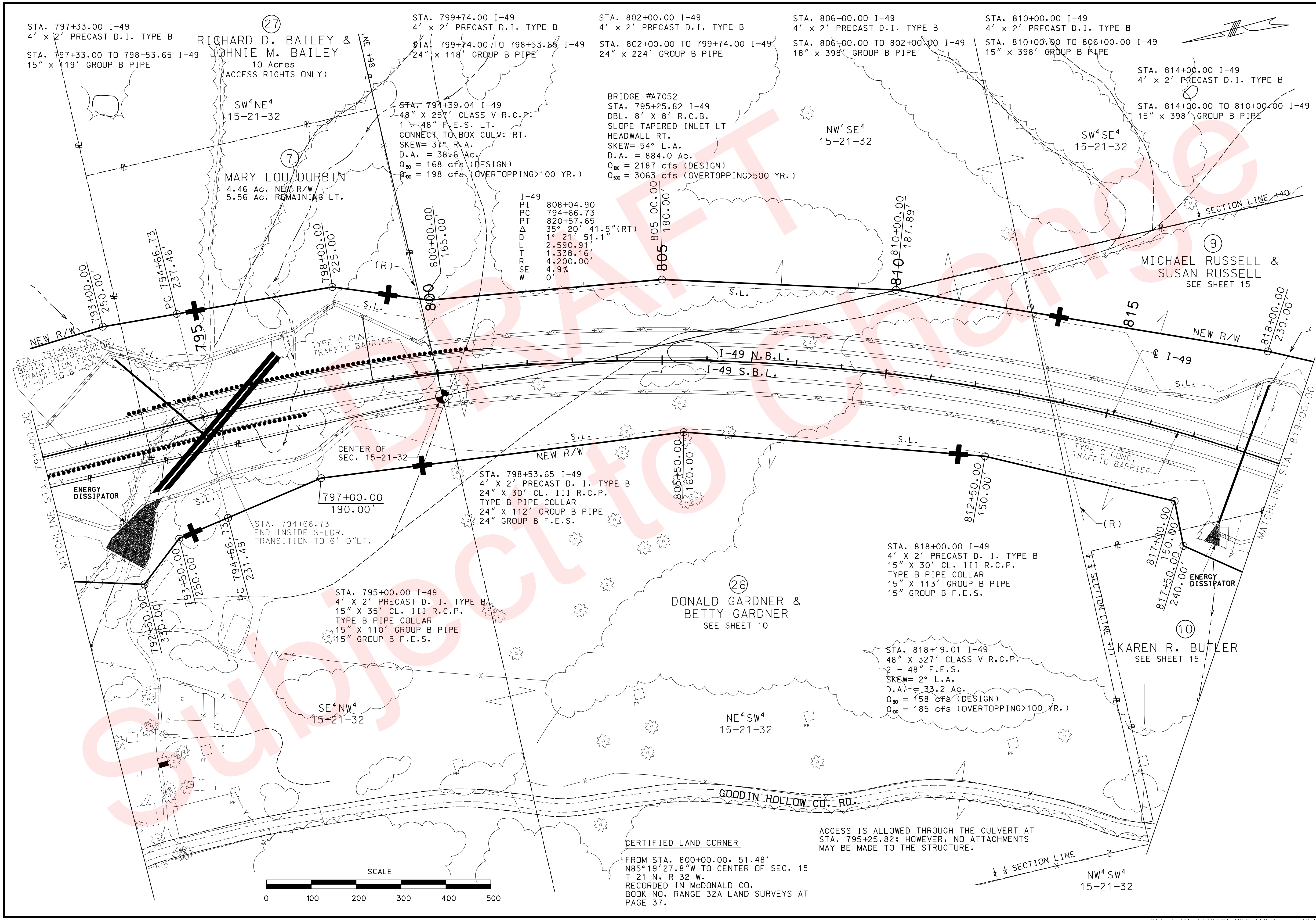
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

REV.

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



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 13
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

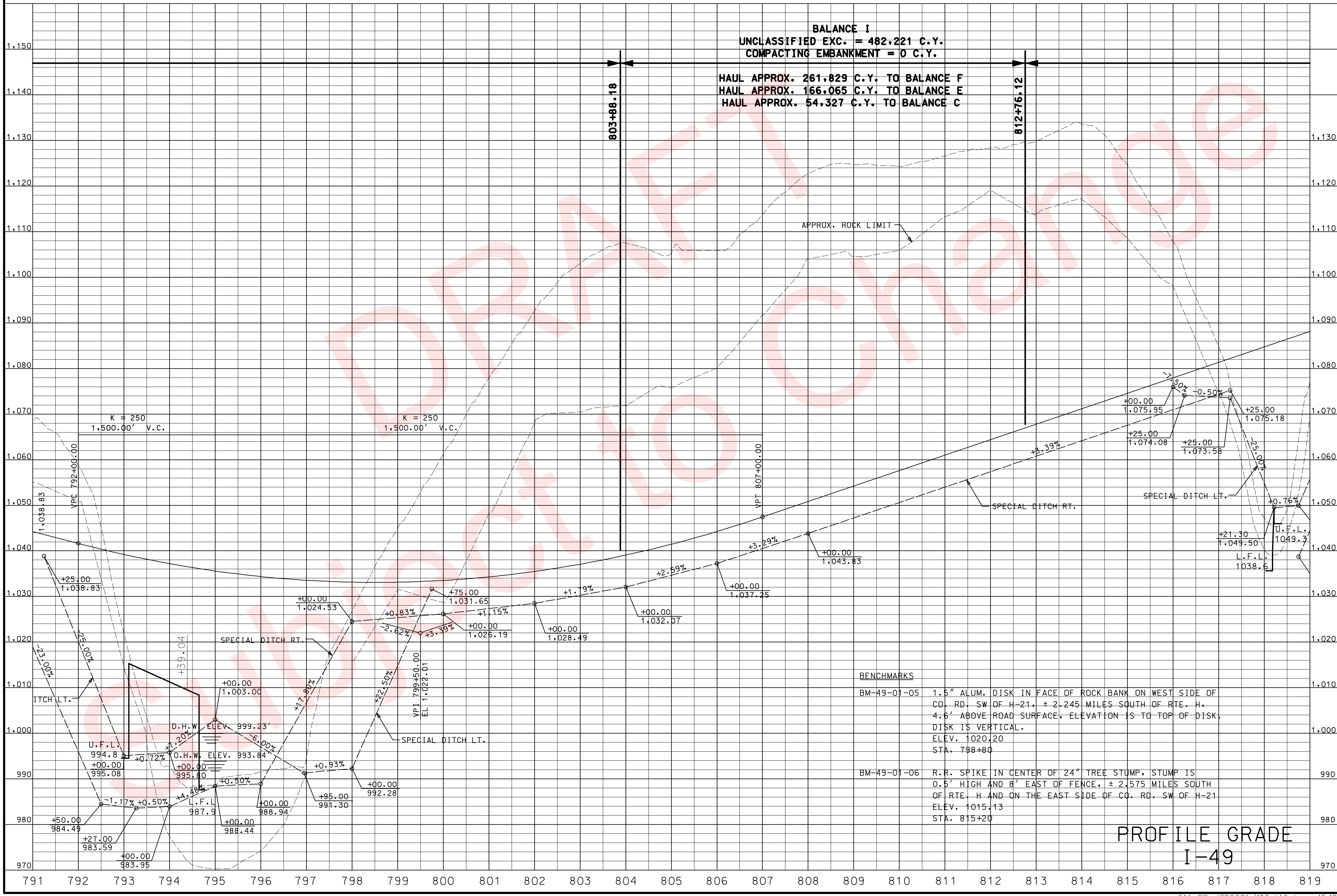
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	14
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

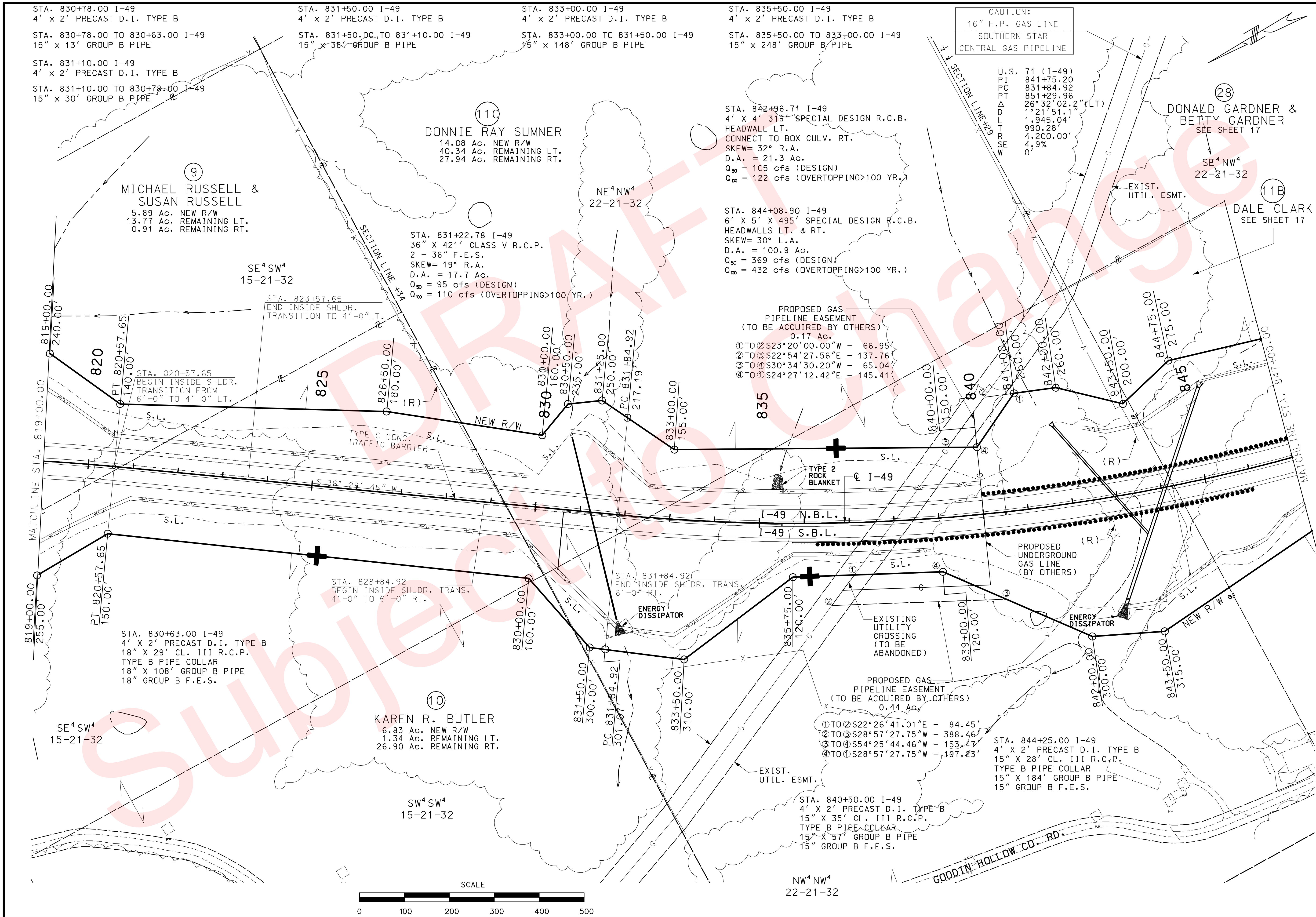
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.

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



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	15
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

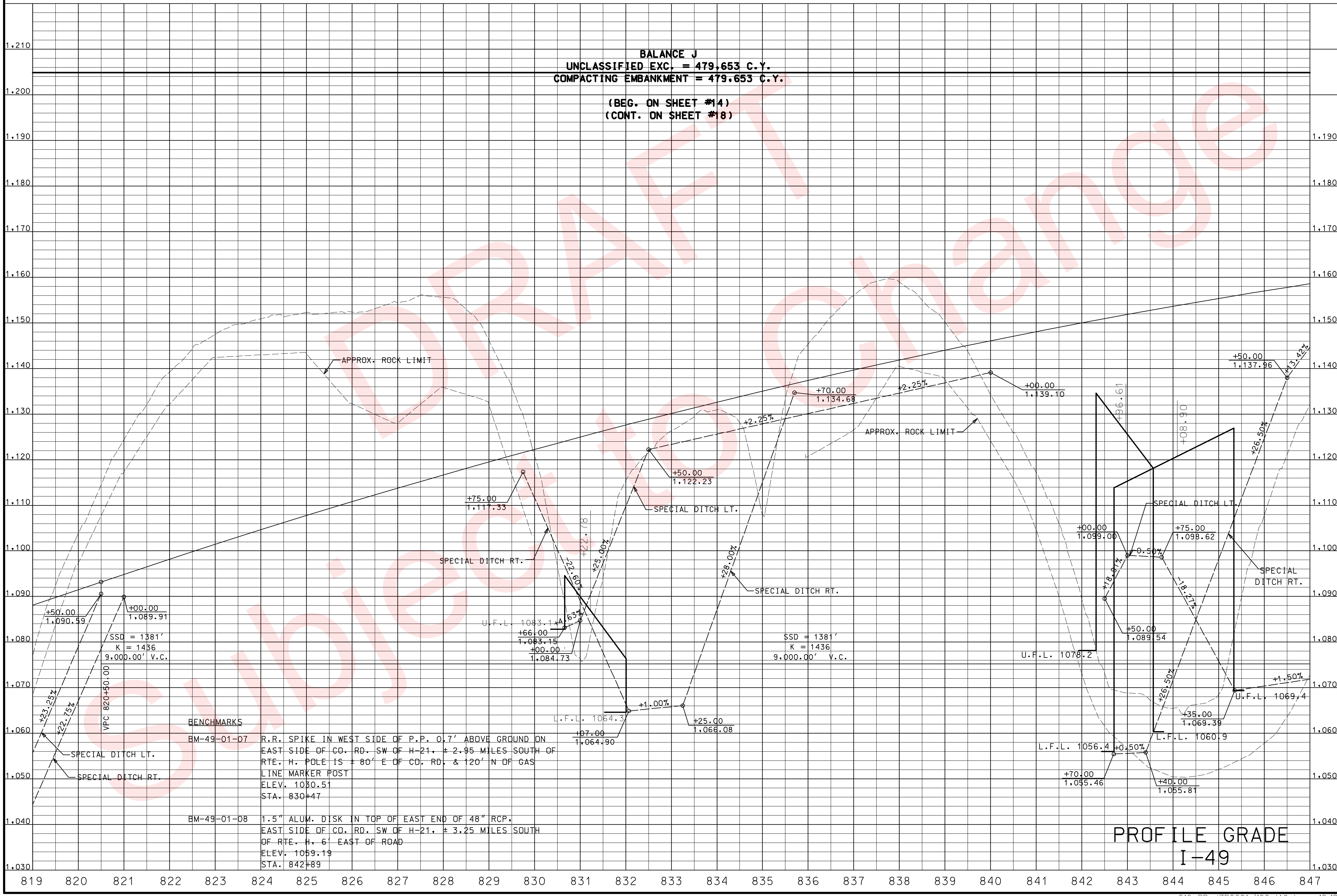
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



PROFILE GRADE
I-49

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	16
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

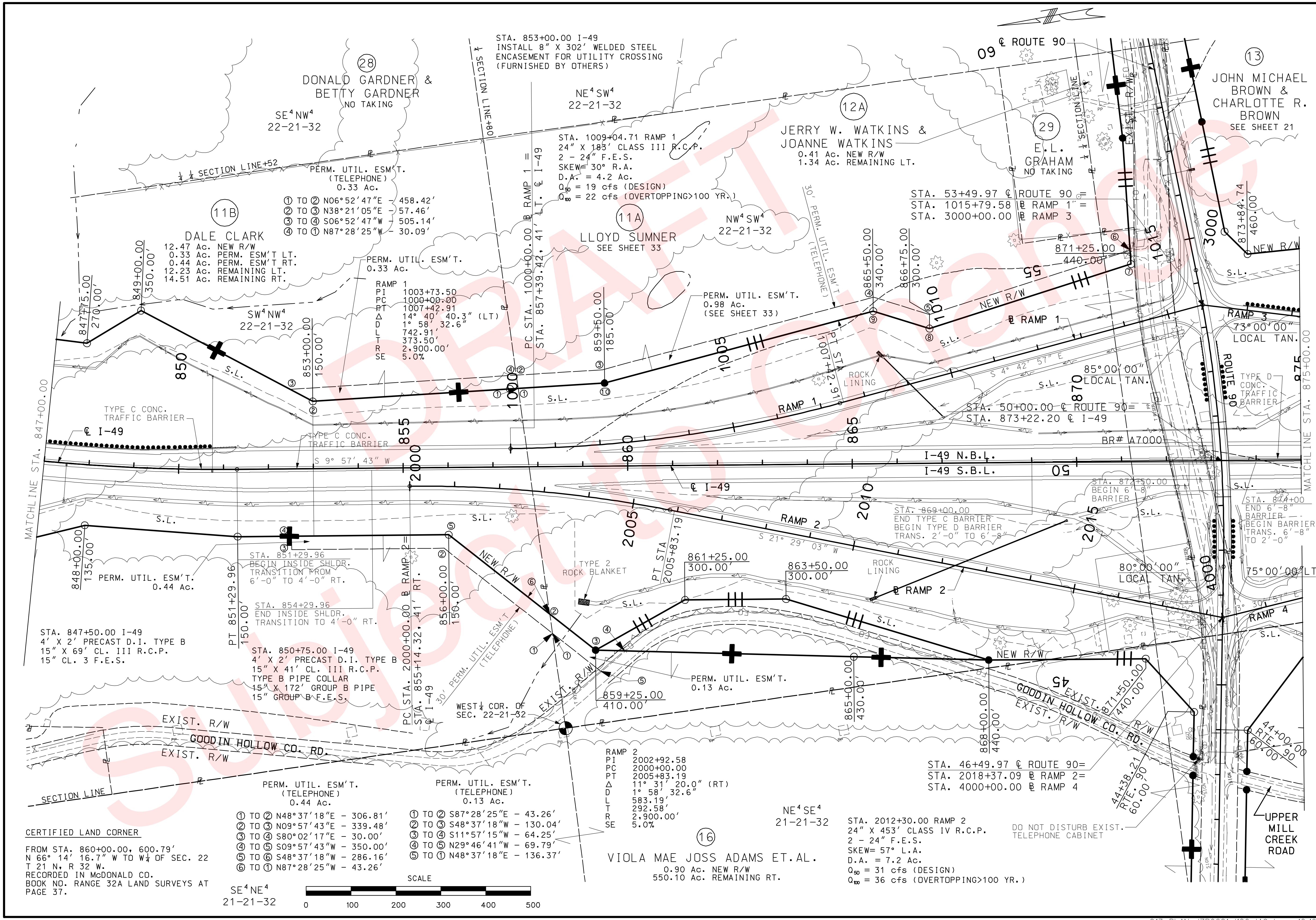
REV.

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.

016_PR_J7P0601_i100_i49.dgn 10:18:56 AM 02/04/2010



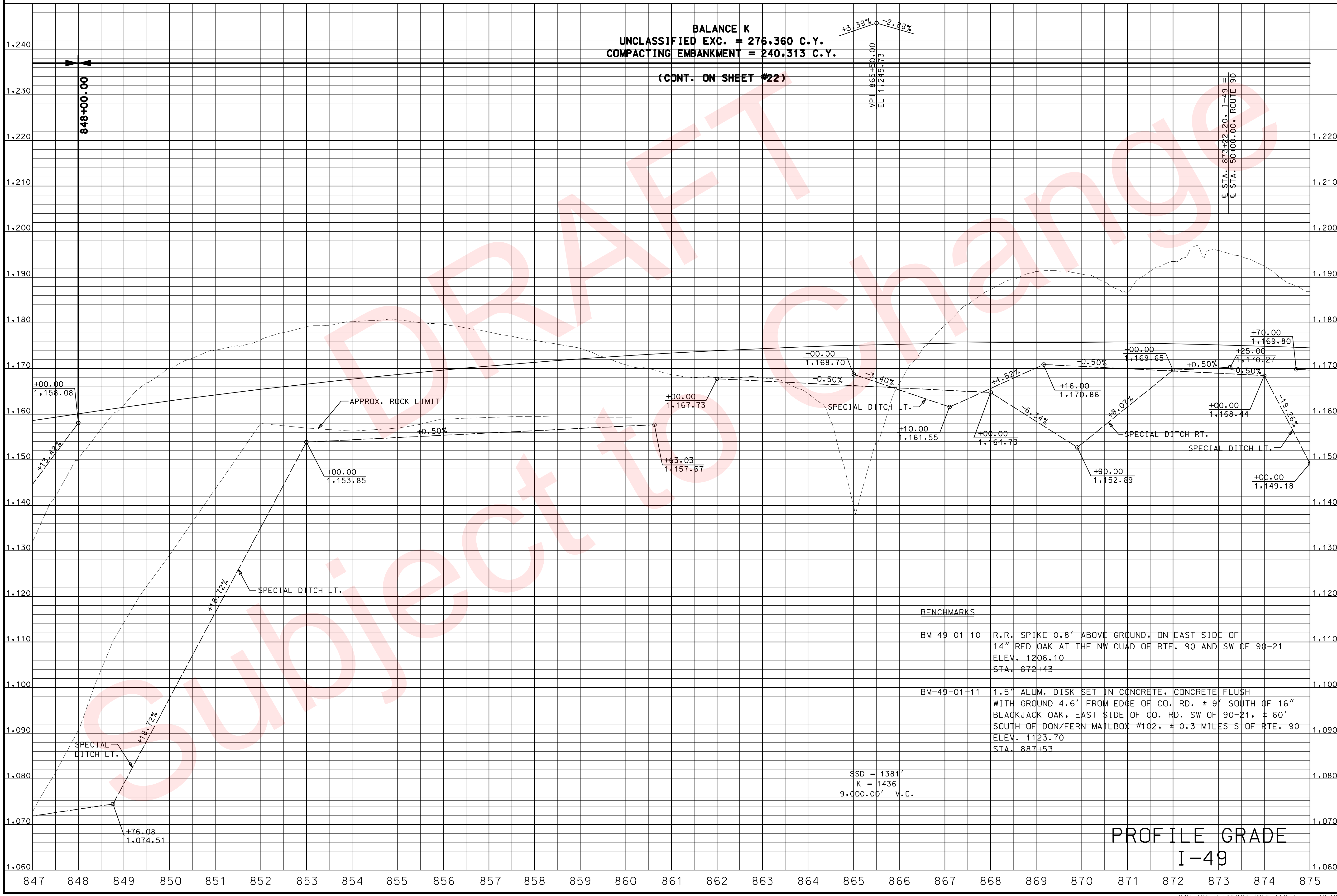
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 17
COUNTY McDONALD	
JOB NO. J7P0601	
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)

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



PROFILE GRADE
I-49

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 18
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

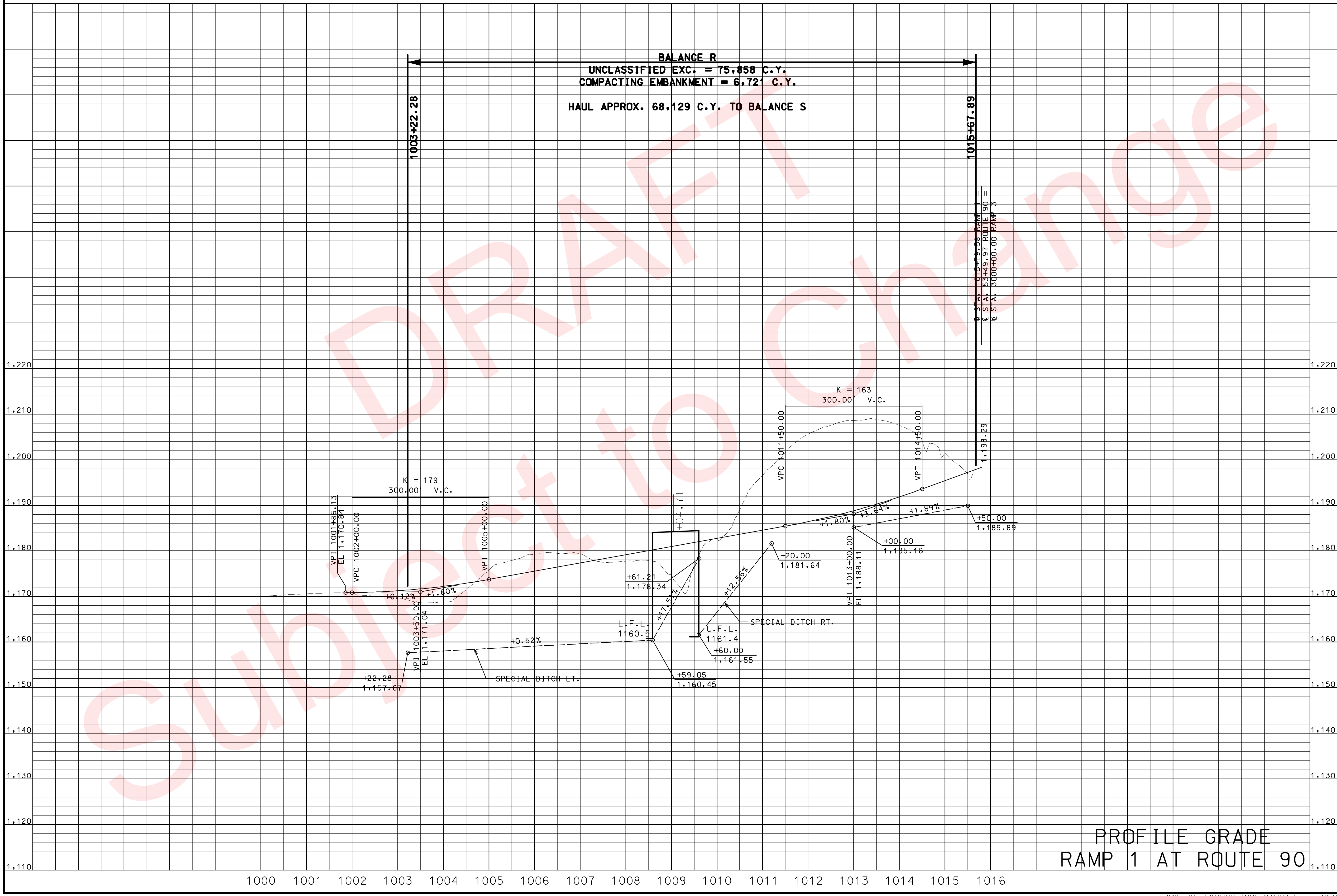
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



PROFILE GRADE
RAMP 1 AT ROUTE 90

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 19
COUNTY	McDONALD
JOB NO.	J7P0601
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)

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

REV.

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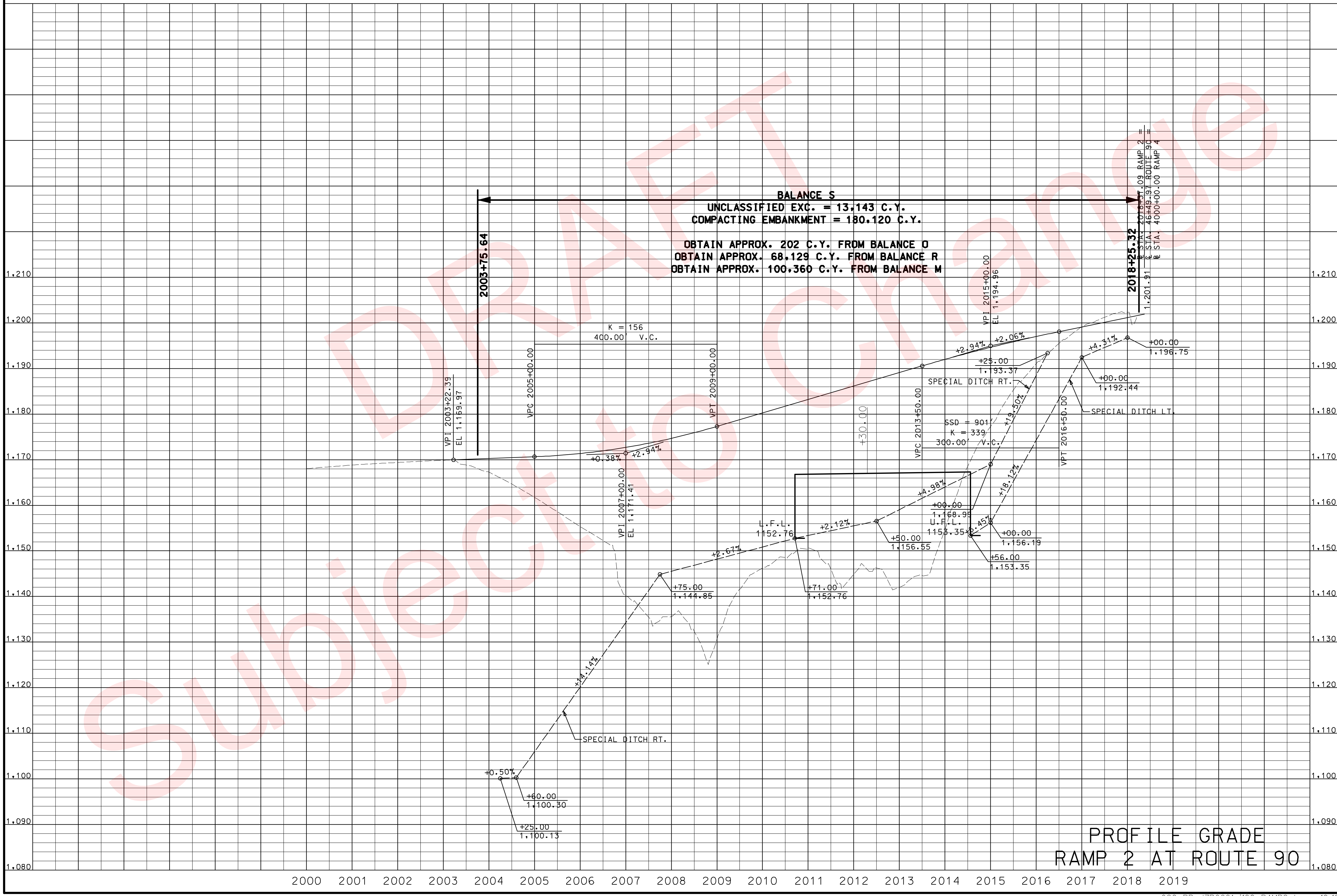

PROFILE GRADE
RAMP 2 AT ROUTE 90

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 20
COUNTY McDONALD	
JOB NO. J7P0601	
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)

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

REV.

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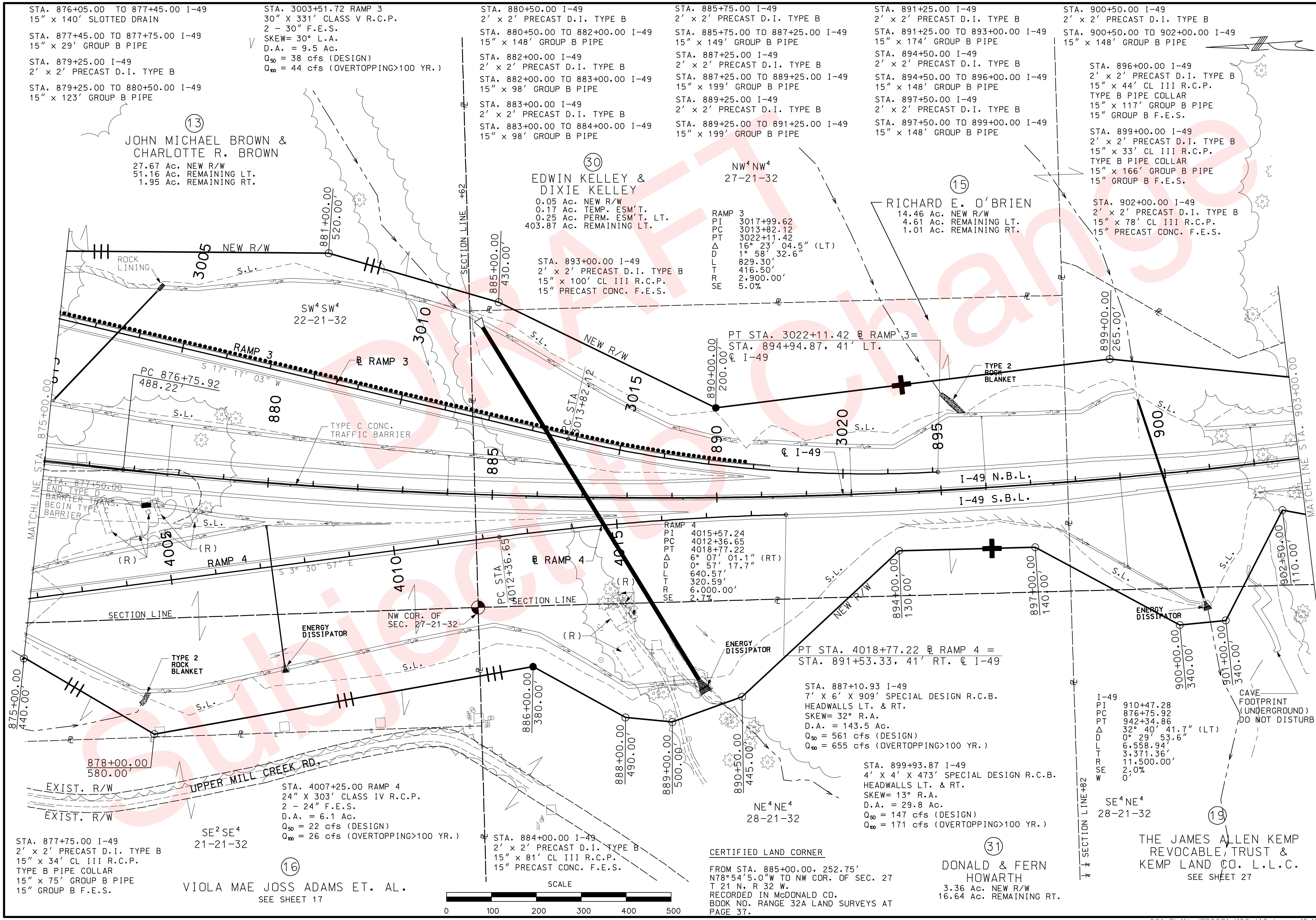


"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 21
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

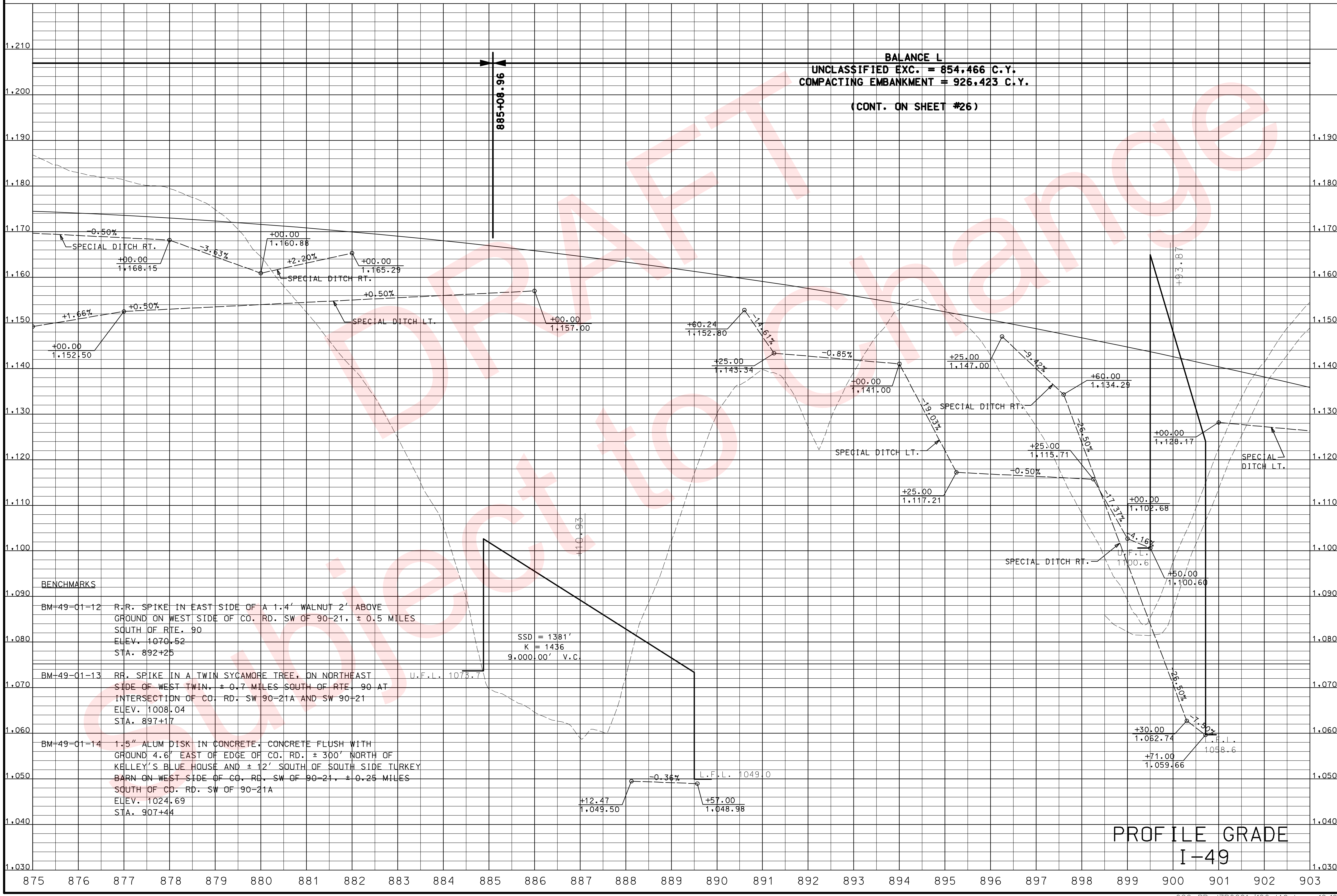
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

021_PLAN_J7P0601_I100_I49.dgn 10:19:18 AM 02/04/2010

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 22
COUNTY MCDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	



BENCHMARKS

BM-49-01-12 R.R. SPIKE IN EAST SIDE OF A 1.4' WALNUT 2' ABOVE GROUND ON WEST SIDE OF CO. RD. SW OF 90-21, ± 0.5 MILES SOUTH OF RTE. 90
ELEV. 1070.52
STA. 892+25

BM-49-01-13 RR. SPIKE IN A TWIN SYCAMORE TREE, ON NORTHEAST SIDE OF WEST TWIN, ± 0.7 MILES SOUTH OF RTE. 90 AT INTERSECTION OF CO. RD. SW 90-21A AND SW 90-21
ELEV. 1008.04
STA. 897+17

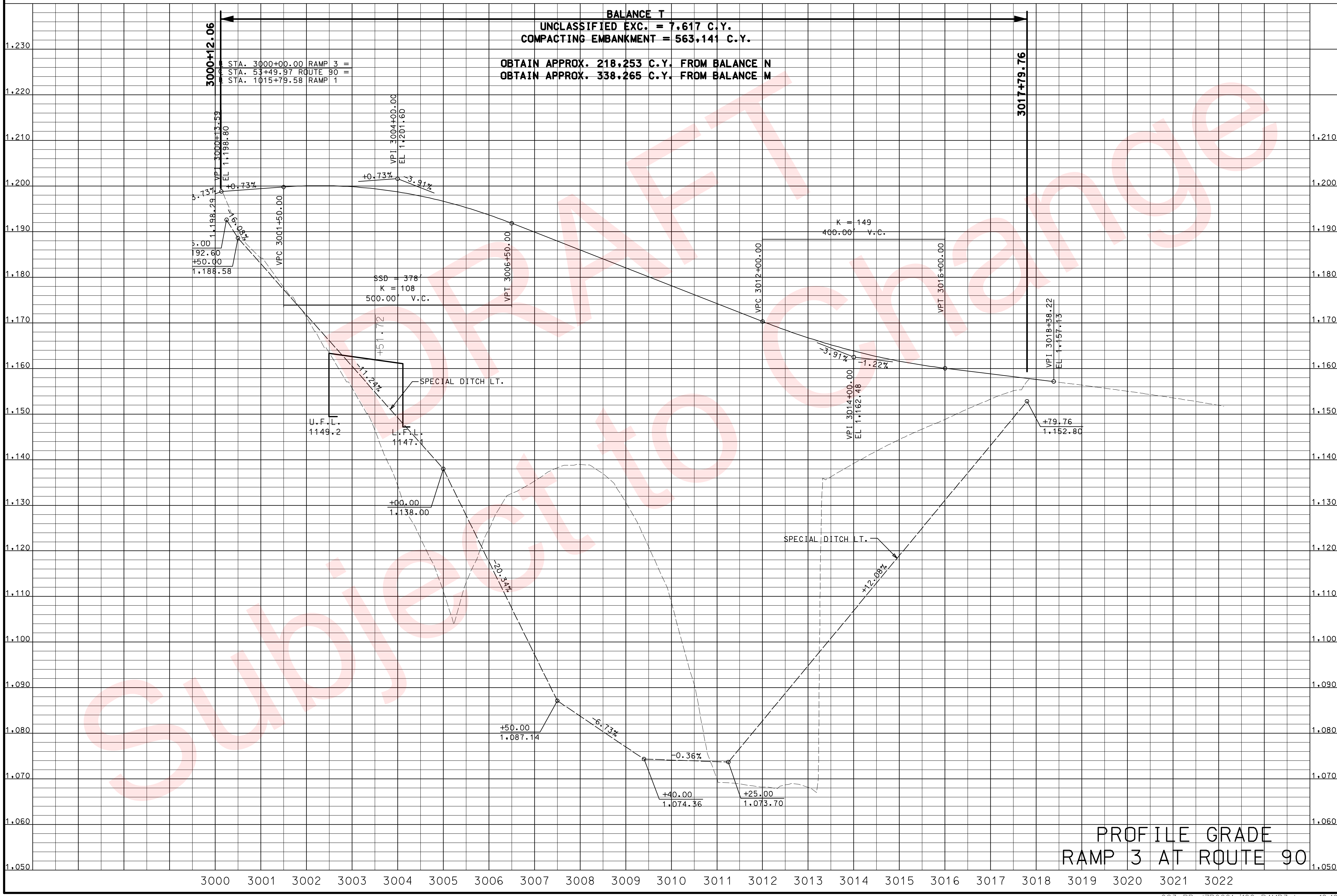
BM-49-01-14 1.5" ALUM DISK IN CONCRETE, CONCRETE FLUSH WITH GROUND 4.6' EAST OF EDGE OF CO. RD. ± 300' NORTH OF KELLEY'S BLUE HOUSE AND ± 12' SOUTH OF SOUTH SIDE TURKEY BARN ON WEST SIDE OF CO. RD. SW OF 90-21, ± 0.25 MILES SOUTH OF CO. RD. SW OF 90-21A
ELEV. 1024.69
STA. 907+44

PROFILE GRADE
I-49

DESCRIPTION	DATE	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PROFILE GRADE
RAMP 3 AT ROUTE 90

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	23
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

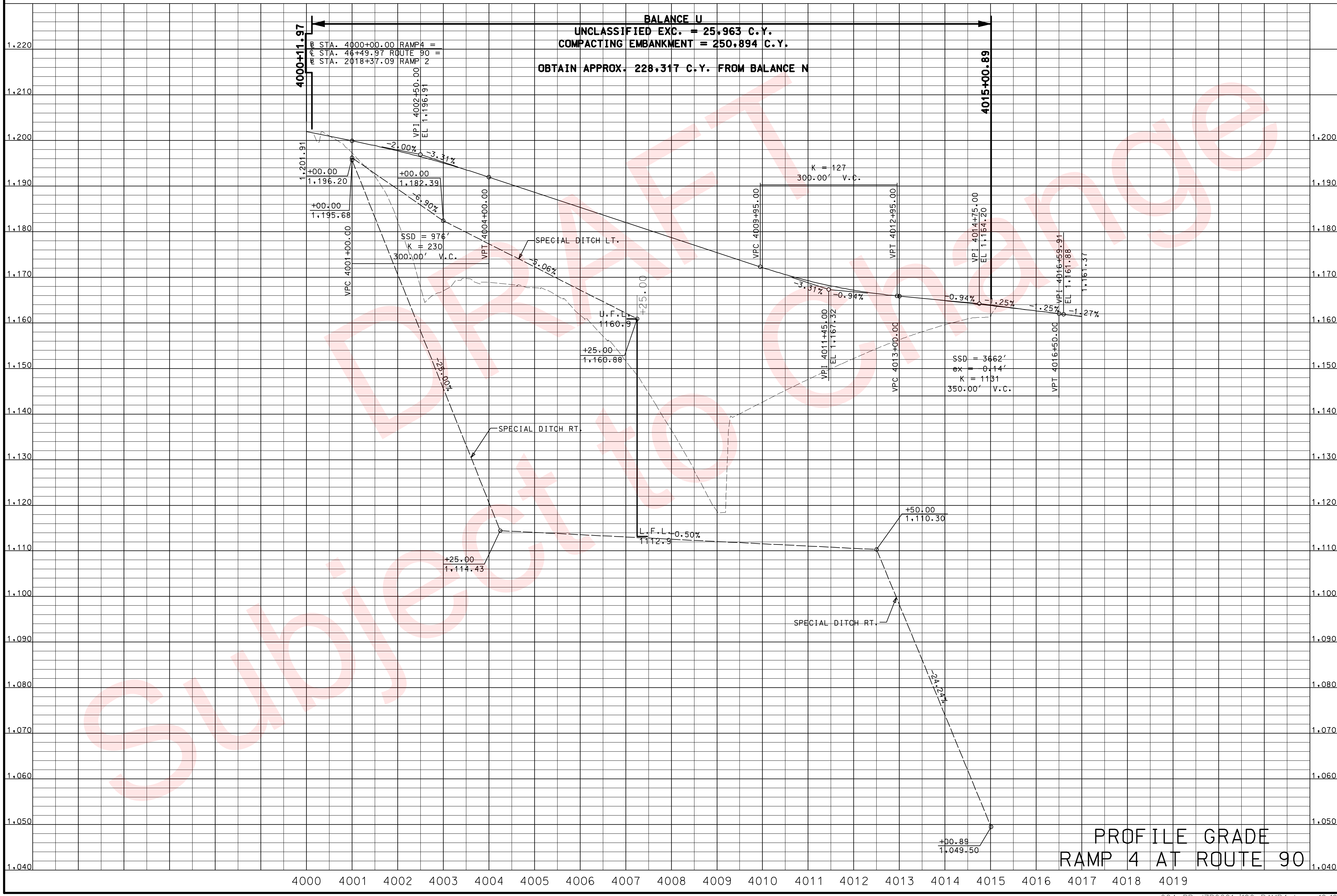
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

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

REV.

023_PR_J7P0601_i100_RAMP3.dgn 10:19:29 AM 02/04/2010



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	24
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

STA. 904+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 904+00.00 TO 906+00.00 I-49
15" x 198' GROUP B PIPE

STA. 908+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 908+00.00 TO 910+00.00 I-49
15" x 198' GROUP B PIPE

STA. 910+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 910+00.00 TO 912+00.00 I-49
15" x 198' GROUP B PIPE

STA. 912+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 912+00.00 TO 914+00.00 I-49
15" x 198' GROUP B PIPE

STA. 916+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 916+00.00 TO 918+00.00 I-49
15" x 198' GROUP B PIPE

STA. 920+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 920+00.00 TO 922+00.00 I-49
15" x 198' GROUP B PIPE

STA. 925+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 925+00.00 TO 926+25.00 I-49
15" x 123' GROUP B PIPE

STA. 926+25.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 926+25.00 TO 927+50.00 I-49
15" x 123' GROUP B PIPE

STA. 927+50.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 927+50.00 TO 928+50.00 I-49
15" x 98' GROUP B PIPE

STA. 928+50.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 928+50.00 TO 929+00.00 I-49
15" x 48' GROUP B PIPE

STA. 929+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

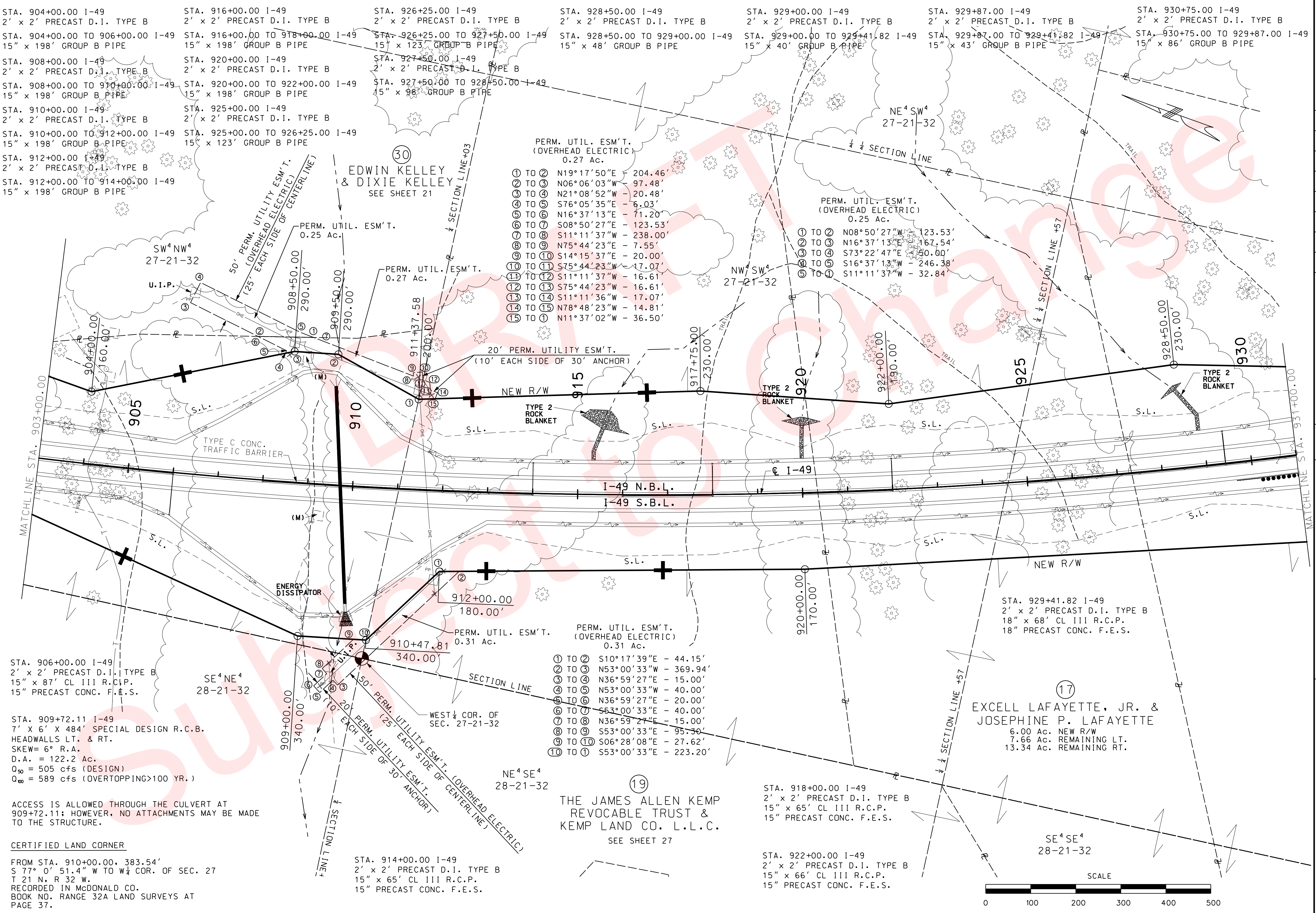
STA. 929+00.00 TO 929+41.82 I-49
15" x 40' GROUP B PIPE

STA. 929+87.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 929+87.00 TO 929+41.82 I-49
15" x 43' GROUP B PIPE

STA. 930+75.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 930+75.00 TO 929+87.00 I-49
15" x 86' GROUP B PIPE



PERM. UTIL. ESM'T.
(OVERHEAD ELECTRIC)
0.27 Ac.

1 TO 2	N19°17'50"E	- 204.46'
2 TO 3	N06°06'03"W	- 97.48'
3 TO 4	N21°08'52"W	- 20.48'
4 TO 5	S76°05'35"E	- 6.03'
5 TO 6	N16°37'13"E	- 71.20'
6 TO 7	S08°50'27"E	- 123.53'
7 TO 8	S11°11'37"W	- 238.00'
8 TO 9	N75°44'23"E	- 7.55'
9 TO 10	S14°15'37"E	- 20.00'
10 TO 11	S75°44'23"W	- 17.07'
11 TO 12	S11°11'37"W	- 16.61'
12 TO 13	S75°44'23"W	- 16.61'
13 TO 14	S11°11'36"W	- 17.07'
14 TO 15	N78°48'23"W	- 14.81'
15 TO 1	N11°37'02"W	- 36.50'

PERM. UTIL. ESM'T.
(OVERHEAD ELECTRIC)
0.25 Ac.

1 TO 2	N08°50'27"W	- 123.53'
2 TO 3	N16°37'13"E	- 167.54'
3 TO 4	S73°22'47"E	- 50.00'
4 TO 5	S16°37'13"W	- 246.38'
5 TO 1	S11°11'37"W	- 32.84'

PERM. UTIL. ESM'T.
(OVERHEAD ELECTRIC)
0.31 Ac.

1 TO 2	S10°17'39"E	- 44.15'
2 TO 3	N53°00'33"W	- 369.94'
3 TO 4	N36°59'27"E	- 15.00'
4 TO 5	N53°00'33"W	- 40.00'
5 TO 6	N36°59'27"E	- 20.00'
6 TO 7	S53°00'33"E	- 40.00'
7 TO 8	N36°59'27"E	- 15.00'
8 TO 9	S53°00'33"E	- 95.30'
9 TO 10	S06°28'08"E	- 27.62'
10 TO 1	S53°00'33"E	- 223.20'

STA. 929+41.82 I-49
2' x 2' PRECAST D.I. TYPE B
18" x 68' CL III R.C.P.
18" PRECAST CONC. F.E.S.

STA. 906+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 87' CL III R.C.P.
15" PRECAST CONC. F.E.S.

STA. 909+72.11 I-49
7' X 6' X 484' SPECIAL DESIGN R.C.B.
HEADWALLS LT. & RT.
SKEW= 6° R.A.
D.A. = 122.2 Ac.
Q_{50} = 505 cfs (DESIGN)
Q_{∞} = 589 cfs (OVERTOPPING>100 YR.)

ACCESS IS ALLOWED THROUGH THE CULVERT AT 909+72.11; HOWEVER, NO ATTACHMENTS MAY BE MADE TO THE STRUCTURE.

CERTIFIED LAND CORNER

FROM STA. 910+00.00, 383.54'
S 77° 0' 51.4" W TO W1/4 COR. OF SEC. 27
T 21 N, R 32 W.
RECORDED IN McDONALD CO.
BOOK NO. RANGE 32A LAND SURVEYS AT
PAGE 37.

STA. 914+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 65' CL III R.C.P.
15" PRECAST CONC. F.E.S.

STA. 918+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 65' CL III R.C.P.
15" PRECAST CONC. F.E.S.

STA. 922+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 66' CL III R.C.P.
15" PRECAST CONC. F.E.S.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
3/26/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 25
COUNTY McDONALD	
JOB NO. J7P0601	
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)

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

REV.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

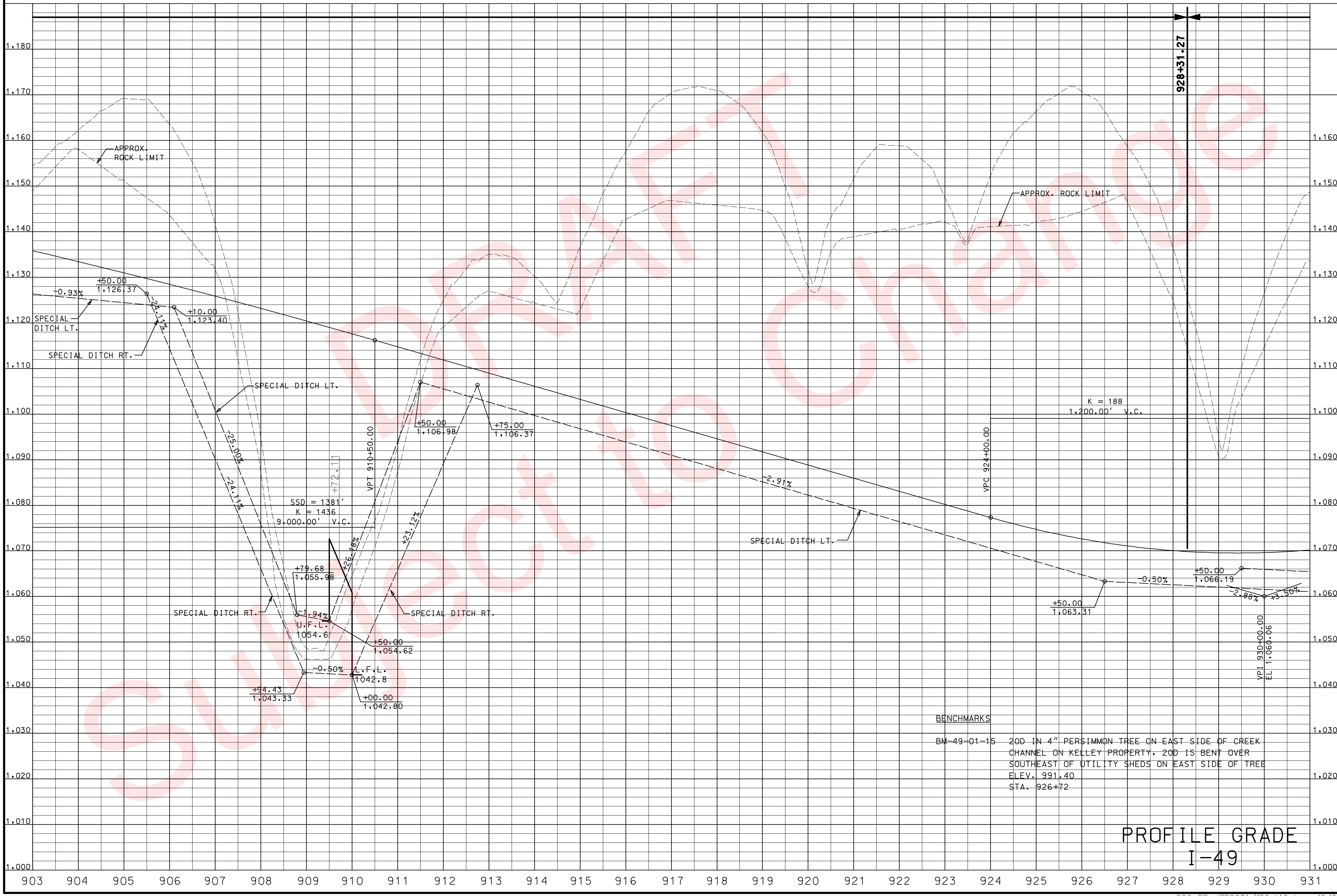
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	26
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

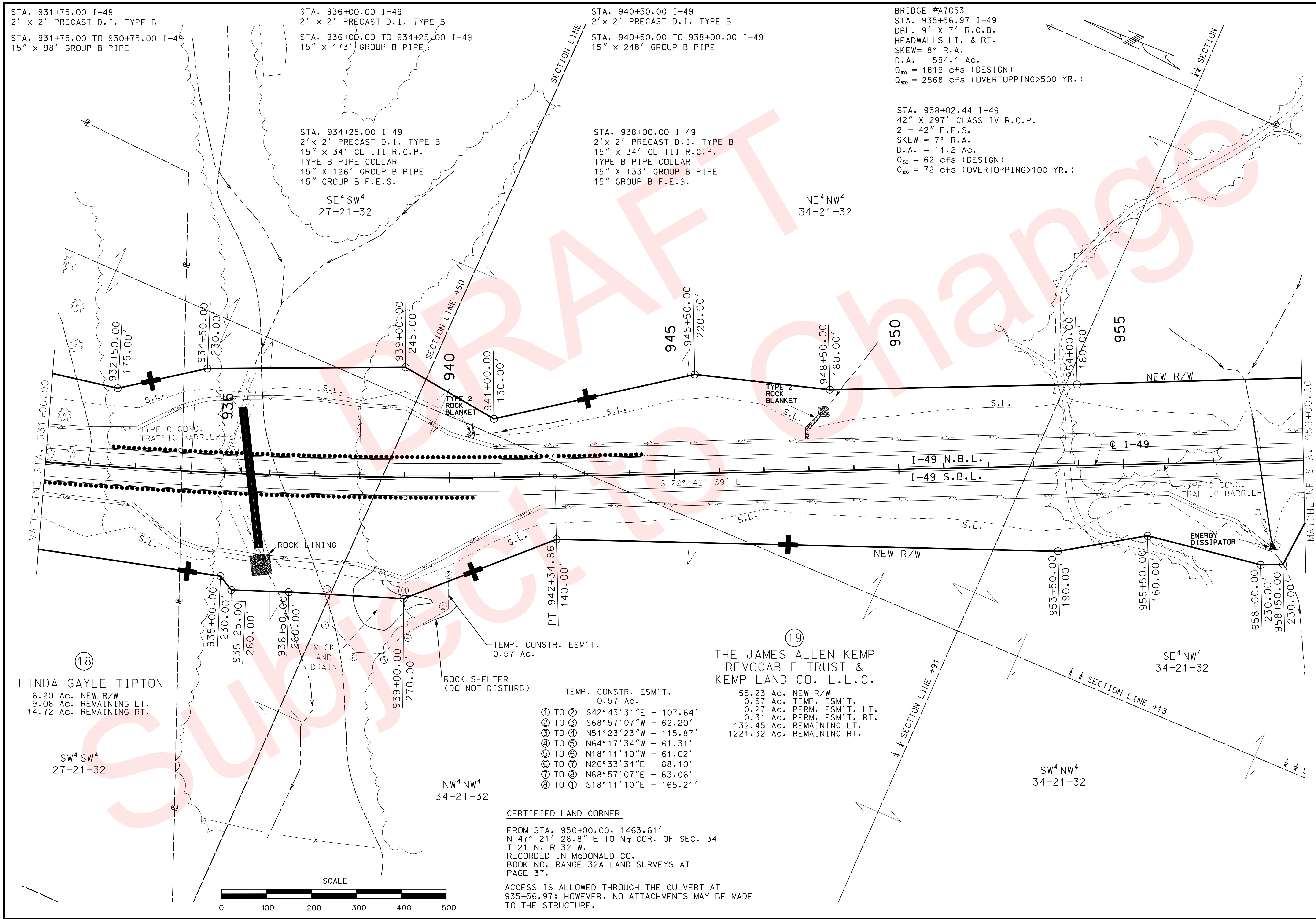


BENCHMARKS

BM-49-01-15 20D IN 4" PERSIMMON TREE ON EAST SIDE OF CREEK CHANNEL ON KELLEY PROPERTY. 20D IS BENT OVER SOUTHEAST OF UTILITY SHEDS ON EAST SIDE OF TREE
ELEV. 991.40
STA. 926+72

PROFILE GRADE
I-49

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 27
COUNTY	McDONALD
JOB NO.	J7P0601
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)

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

REV.

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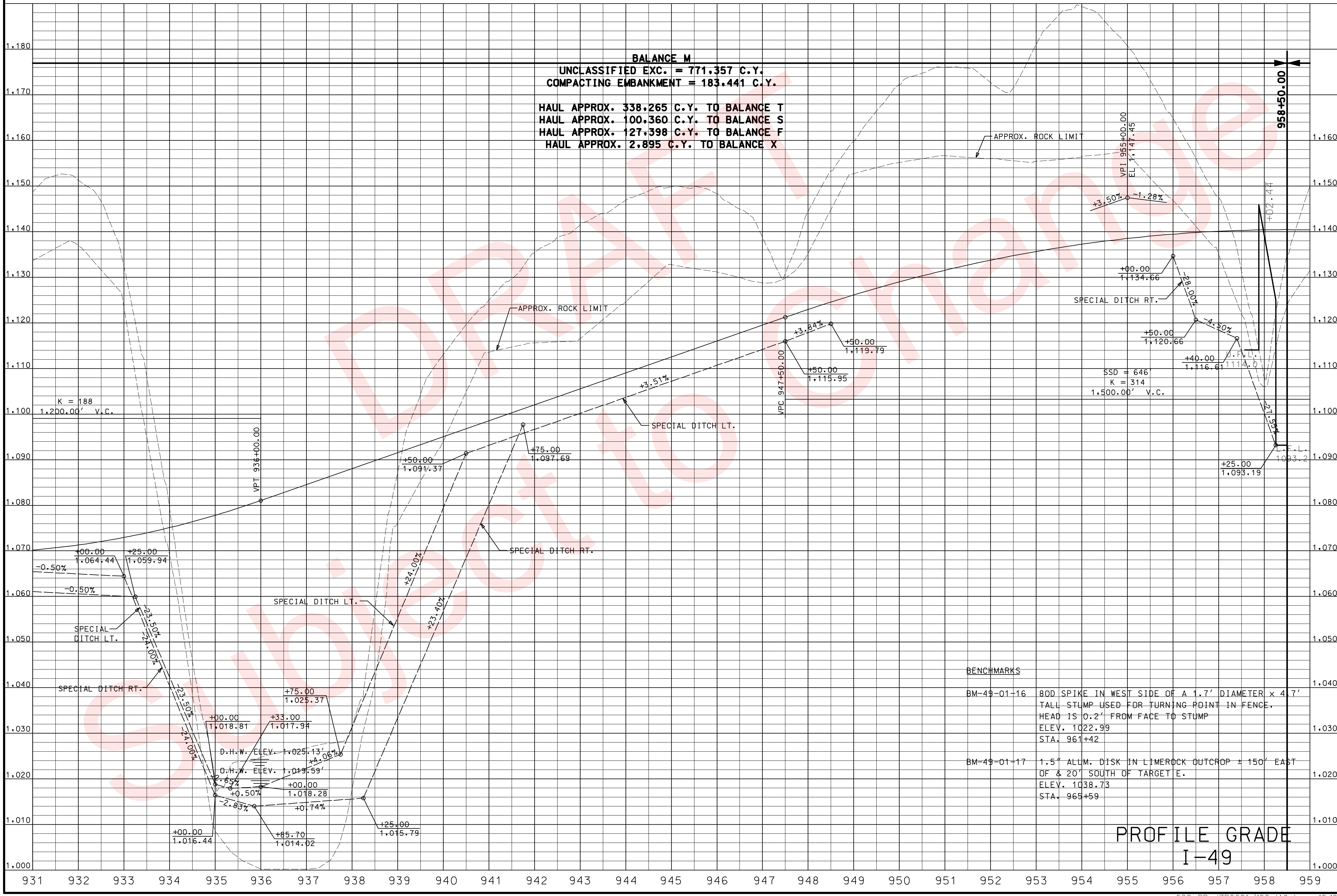


"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 28
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

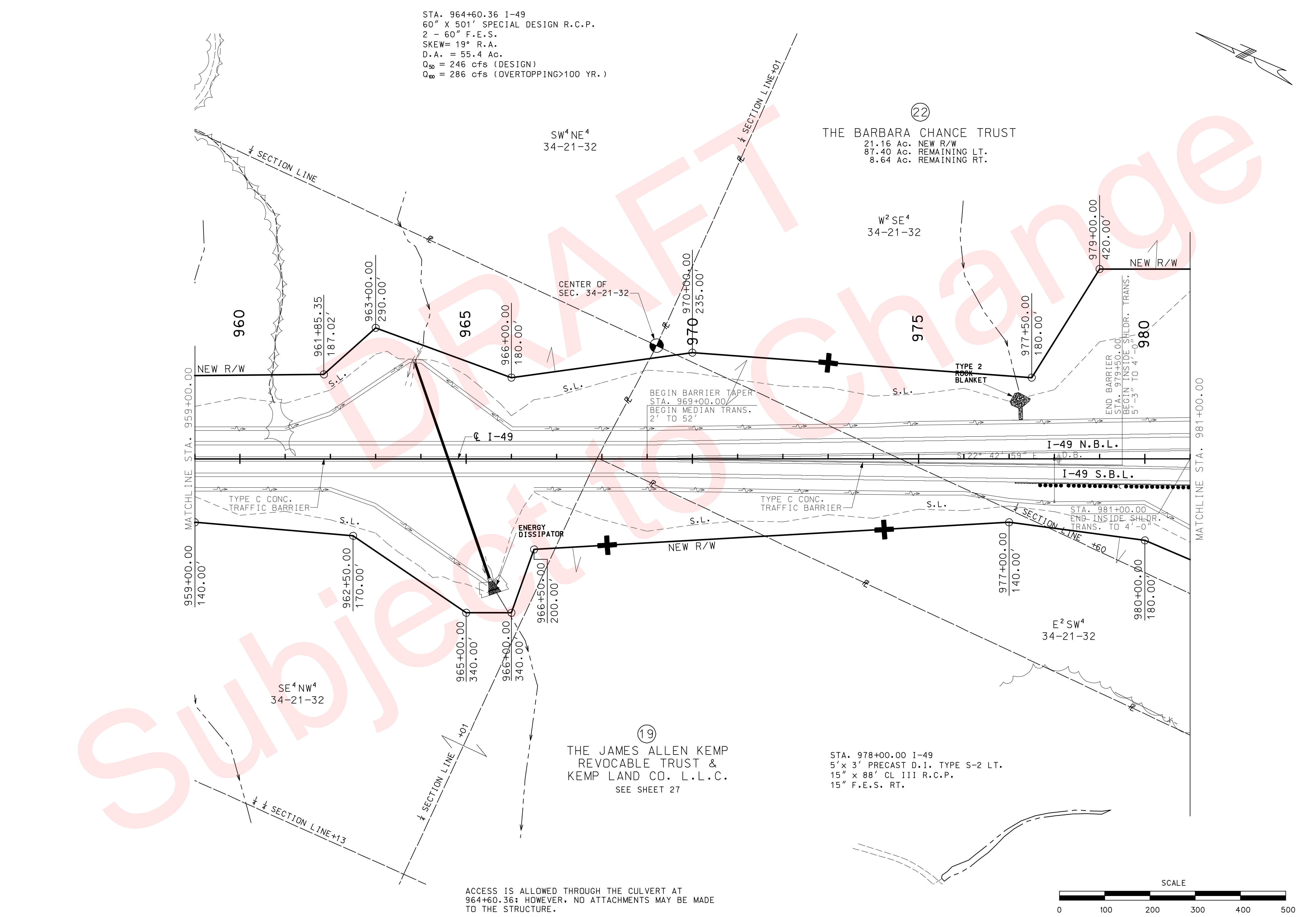
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 29
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

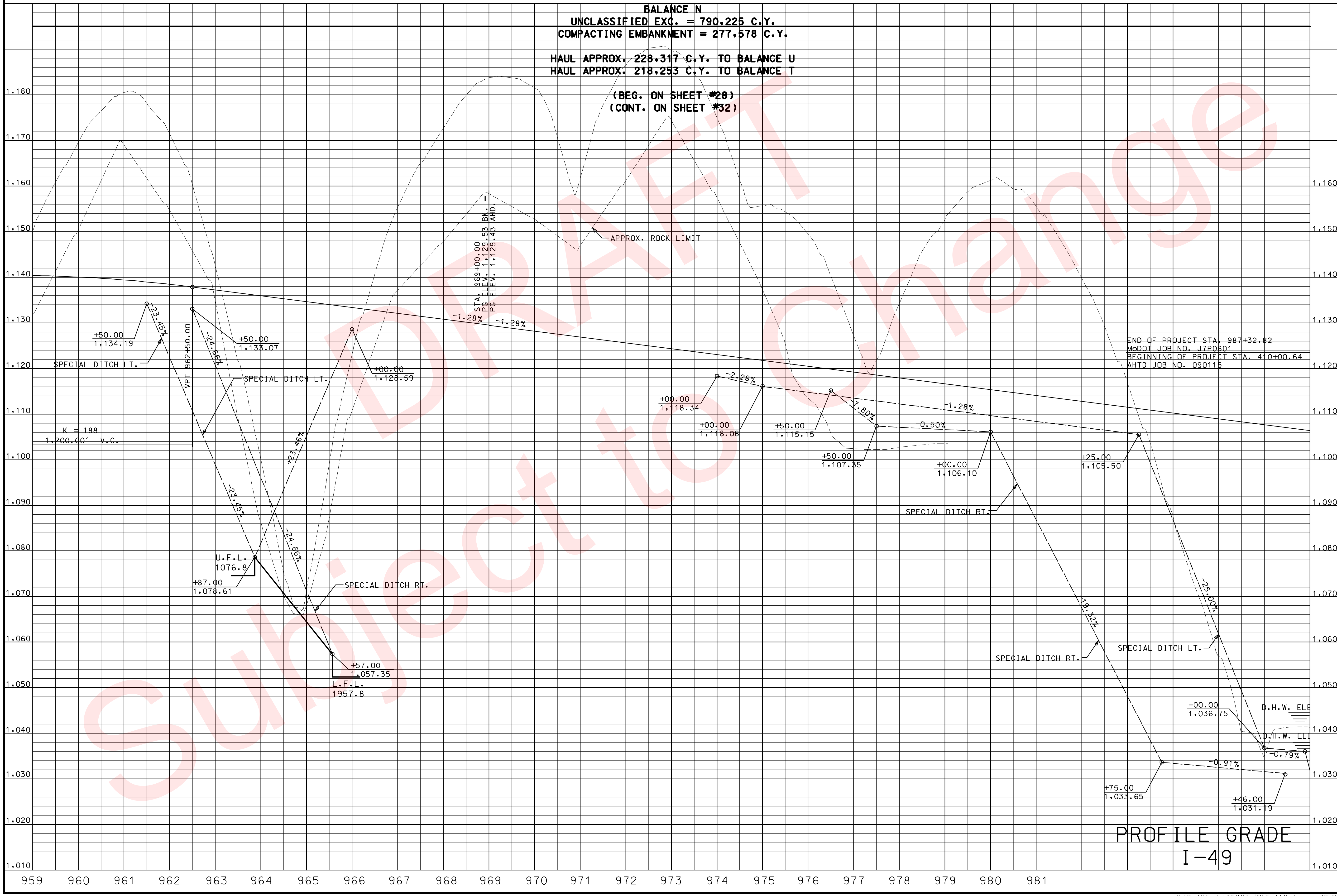
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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.



PROFILE GRADE
I-49

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	30
COUNTY	MCDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

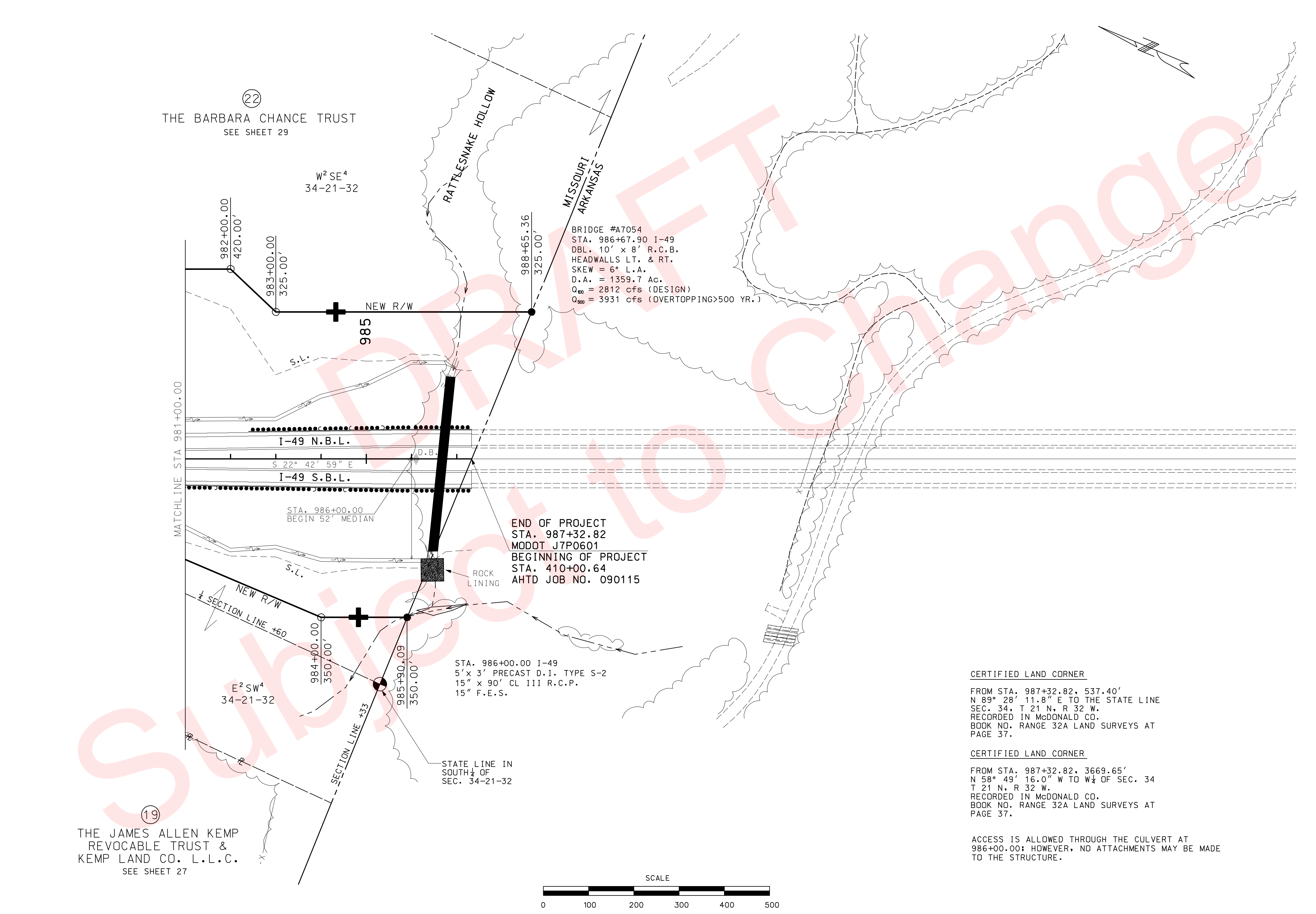
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

REV.



CERTIFIED LAND CORNER

FROM STA. 987+32.82, 537.40'
N 89° 28' 11.8" E TO THE STATE LINE
SEC. 34, T 21 N, R 32 W.
RECORDED IN McDONALD CO.
BOOK NO. RANGE 32A LAND SURVEYS AT
PAGE 37.

CERTIFIED LAND CORNER

FROM STA. 987+32.82, 3669.65'
N 58° 49' 16.0" W TO W1/4 OF SEC. 34
T 21 N, R 32 W.
RECORDED IN McDONALD CO.
BOOK NO. RANGE 32A LAND SURVEYS AT
PAGE 37.

ACCESS IS ALLOWED THROUGH THE CULVERT AT
986+00.00; HOWEVER, NO ATTACHMENTS MAY BE MADE
TO THE STRUCTURE.

DRAFT Subject to Change

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 31
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

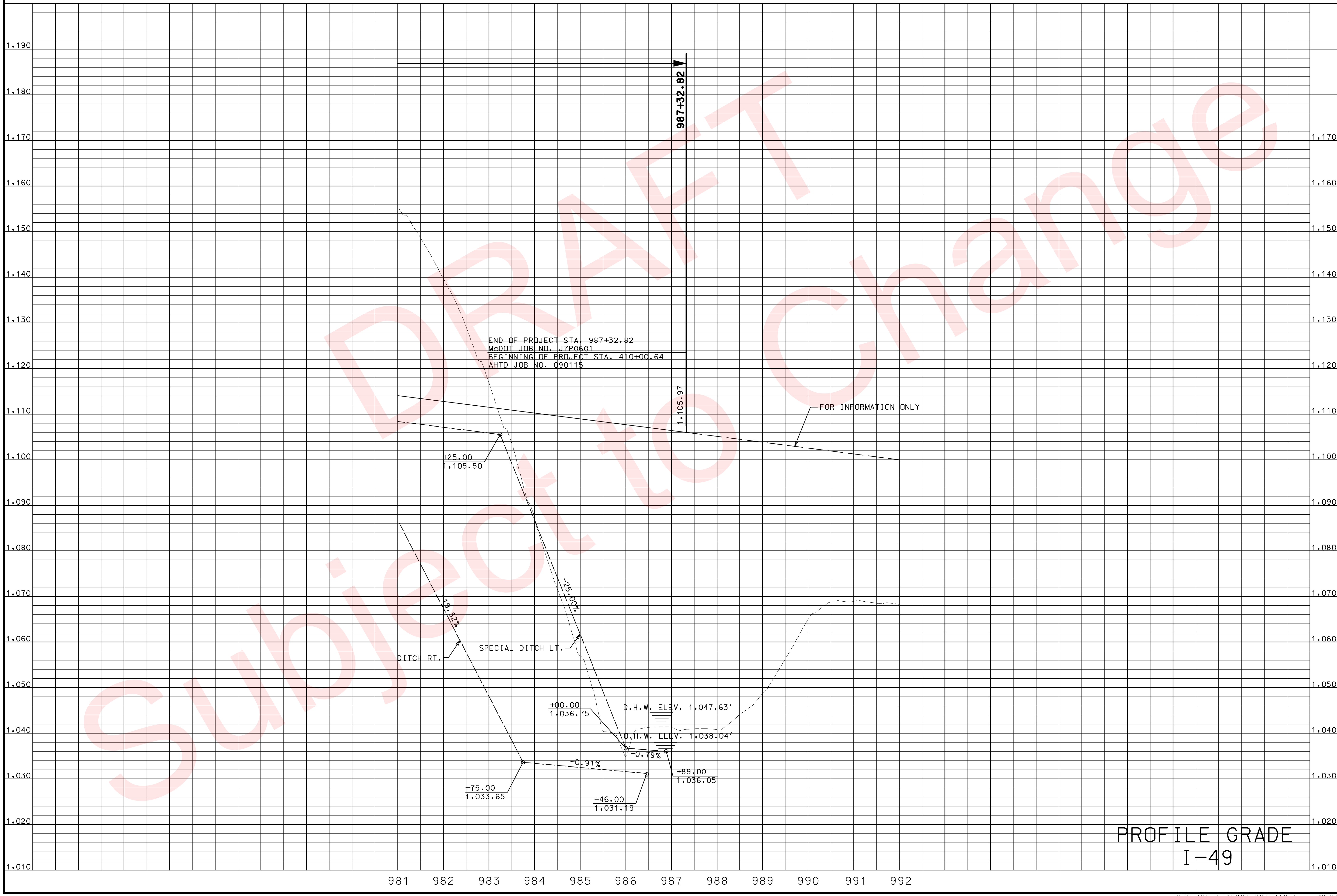
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 32
COUNTY McDONALD	
JOB NO. J7P0601	
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)

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

REV.

STA. 56+50.00 RTE. 90
18" X 48' GROUP B PIPE
2 - 18" GROUP B F.E.S.
D.A. = 0.5 Ac.
Q_{50} = 2 cfs (DESIGN)
Q_{100} = 3 cfs (OVERTOPPING>100 YR.)

STA. 60+29.00 RTE. 90
18" X 41' GROUP B PIPE
2 - 18" GROUP B F.E.S.
D.A. = 0.4 Ac.
Q_{50} = 2 cfs (DESIGN)
Q_{100} = 3 cfs (OVERTOPPING>100 YR.)

STA. 60+75.00 RTE. 90
INSTALL 8" X 60' WELDED STEEL ENCASEMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

PERM. UTIL. ESM'T.
(TELEPHONE)
0.98 Ac.

① TO ②	S87°28'25"E - 30.09'
② TO ③	S06°52'47"W - 191.08'
③ TO ④	S04°31'22"E - 625.37'
④ TO ⑤	S27°42'25"W - 130.44'
⑤ TO ⑥	S07°19'10"E - 469.29'
⑥ TO ⑦	N83°18'51"W - 30.92'
⑦ TO ⑧	N07°19'10"W - 471.27'
⑧ TO ⑨	N27°42'25"E - 131.24'
⑨ TO ⑩	N04°31'22"W - 619.70'
⑩ TO ①	N06°52'47"E - 192.52'

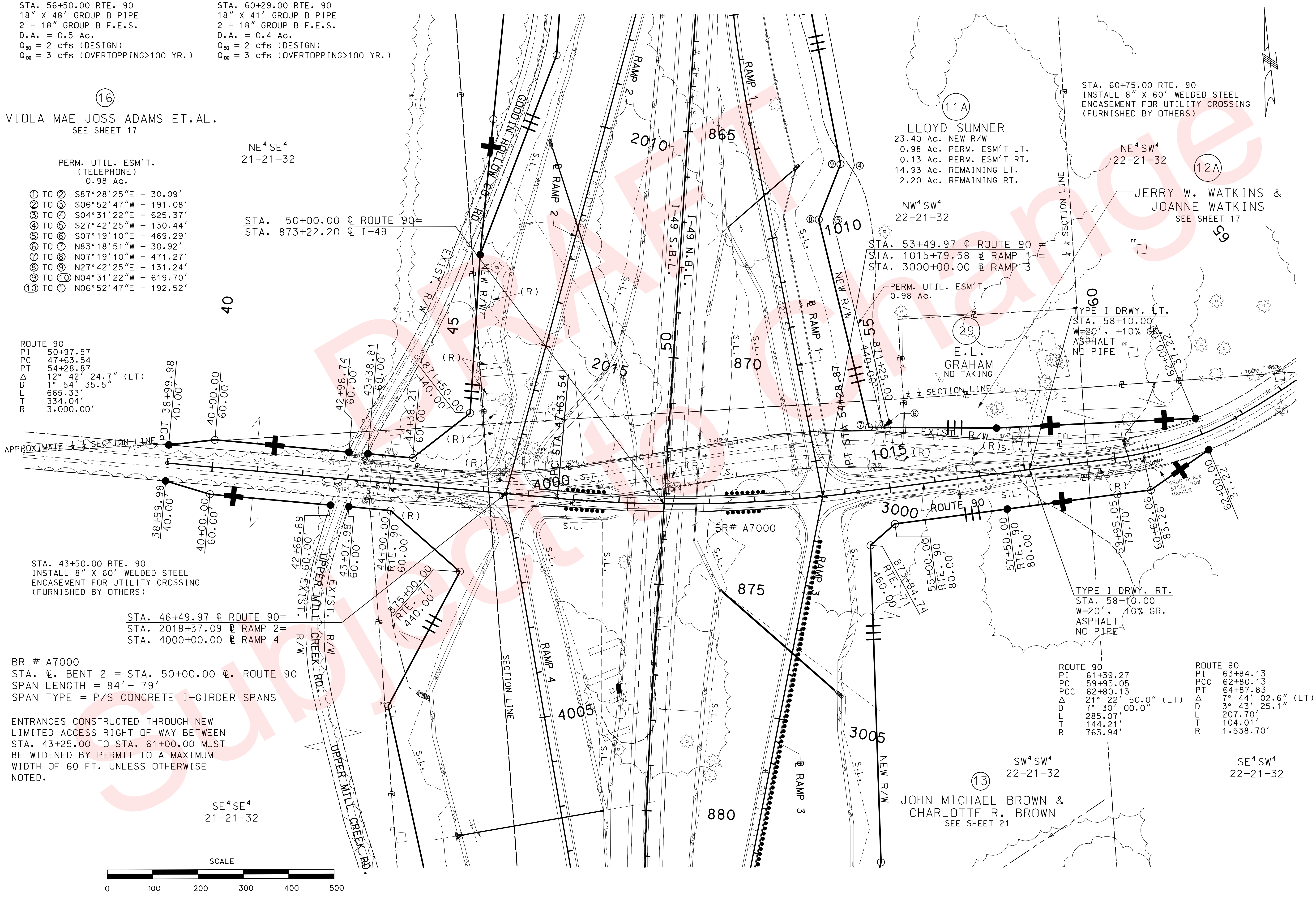
ROUTE 90

PI	50+97.57
PC	47+63.54
PT	54+28.87
Δ	12° 42' 24.7" (LT)
D	1° 54' 35.5"
L	665.33'
T	334.04'
R	3,000.00'

STA. 43+50.00 RTE. 90
INSTALL 8" X 60' WELDED STEEL ENCASEMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

BR # A7000
STA. ℄. BENT 2 = STA. 50+00.00 ℄. ROUTE 90
SPAN LENGTH = 84'- 79'
SPAN TYPE = P/S CONCRETE I-GIRDER SPANS

ENTRANCES CONSTRUCTED THROUGH NEW LIMITED ACCESS RIGHT OF WAY BETWEEN STA. 43+25.00 TO STA. 61+00.00 MUST BE WIDENED BY PERMIT TO A MAXIMUM WIDTH OF 60 FT. UNLESS OTHERWISE NOTED.



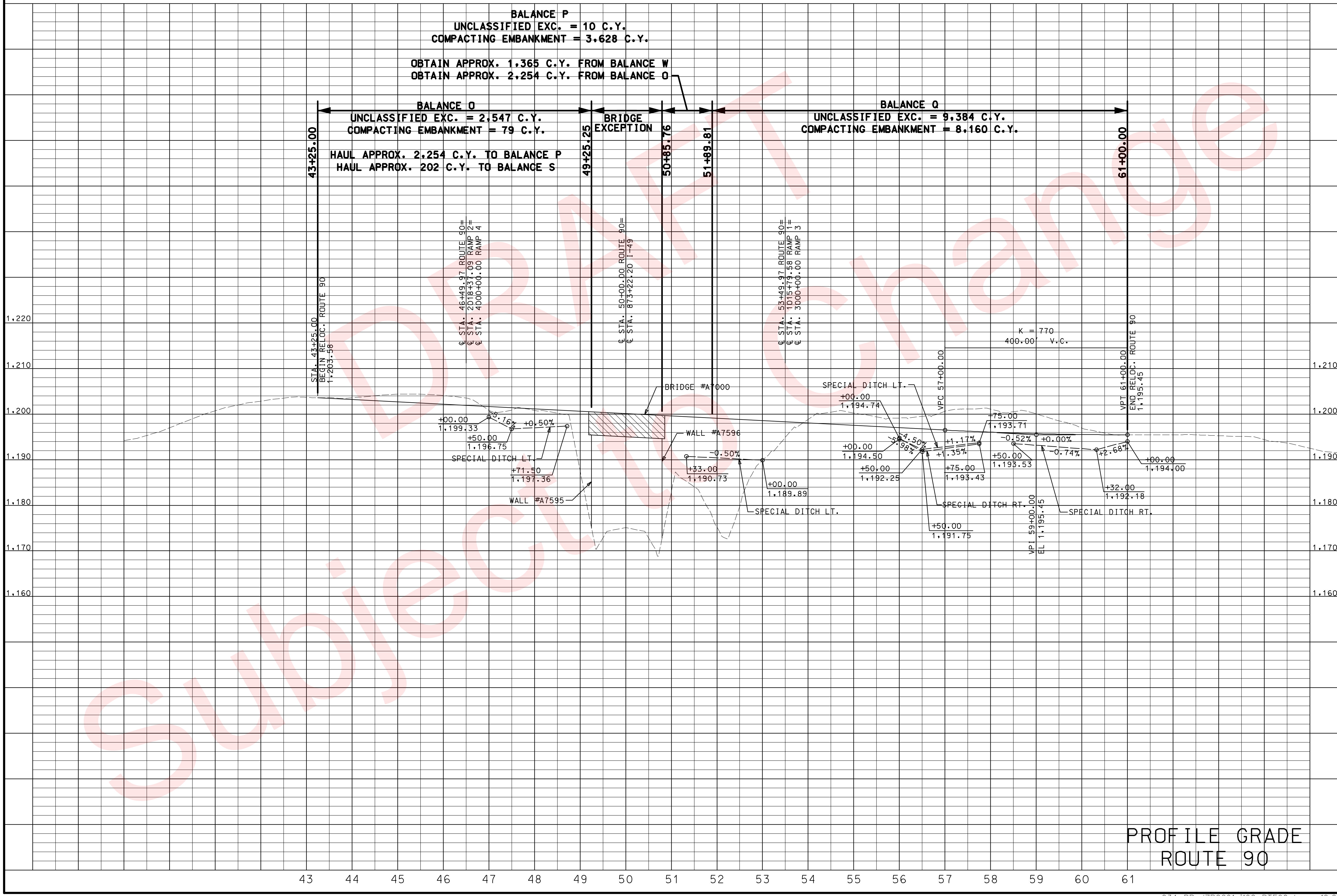
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 33
COUNTY McDONALD	
JOB NO. J7P0601	
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

REV.



PROFILE GRADE
ROUTE 90

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	34
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

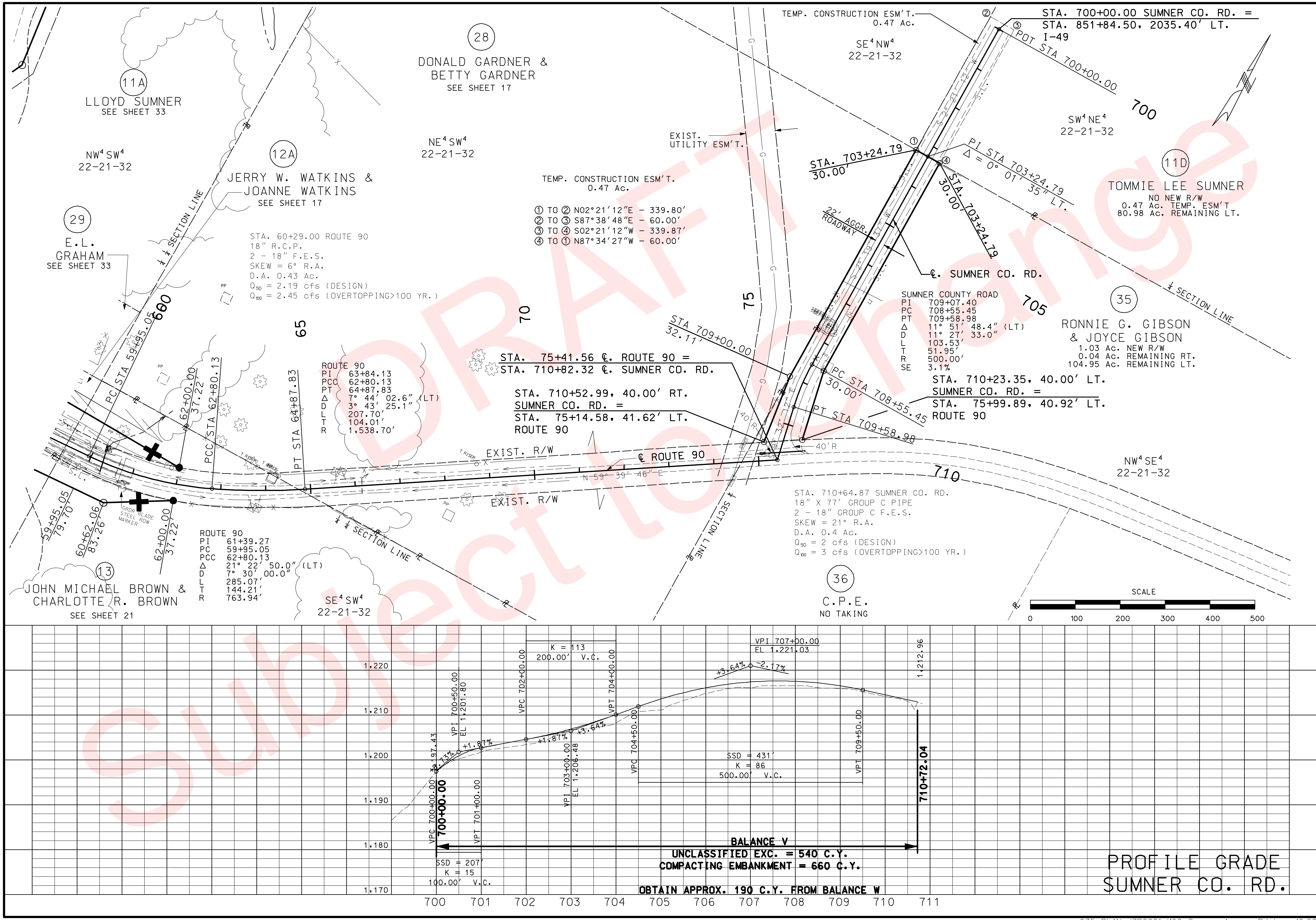
DATE

REV.

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.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 35
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

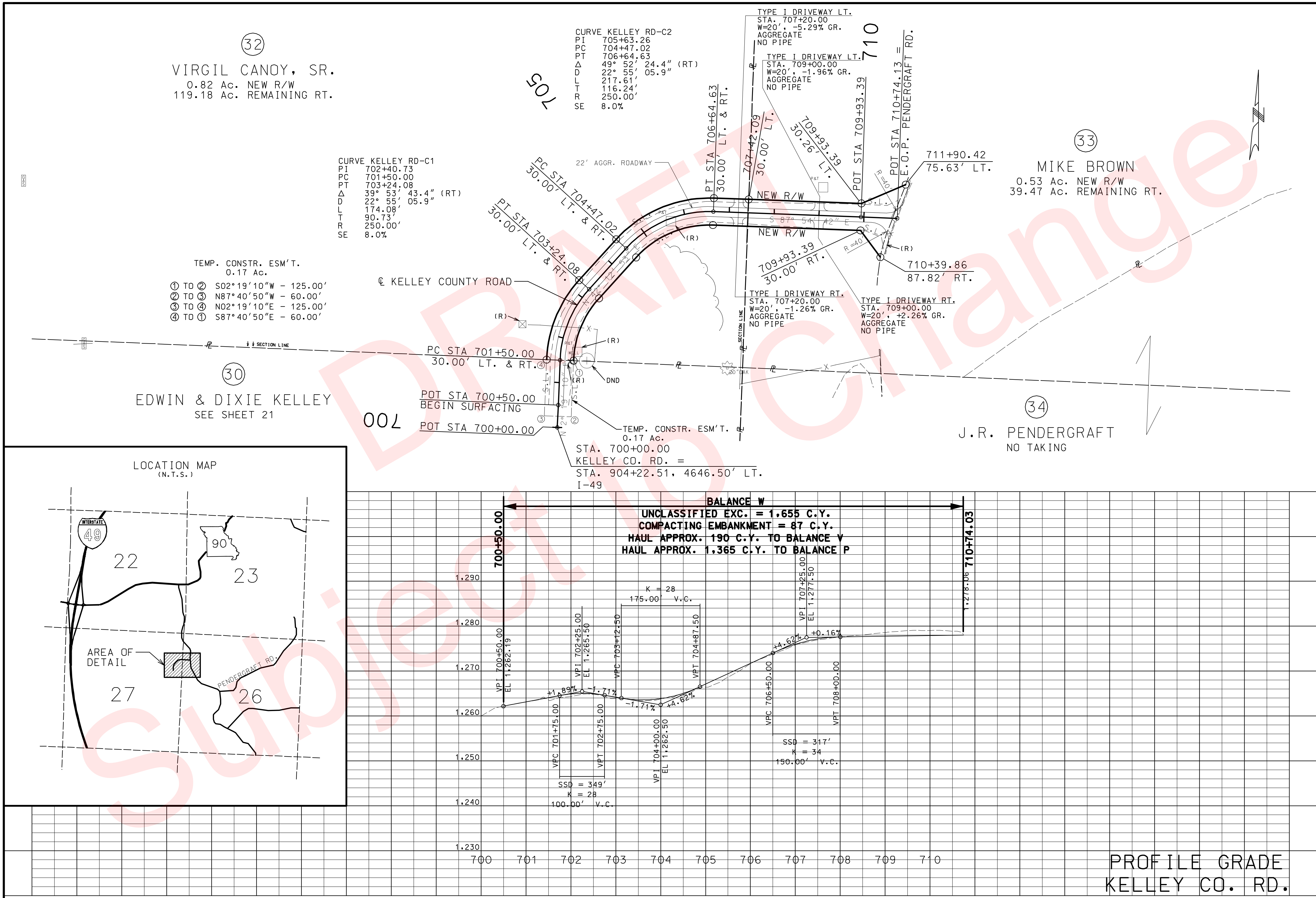
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	36
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

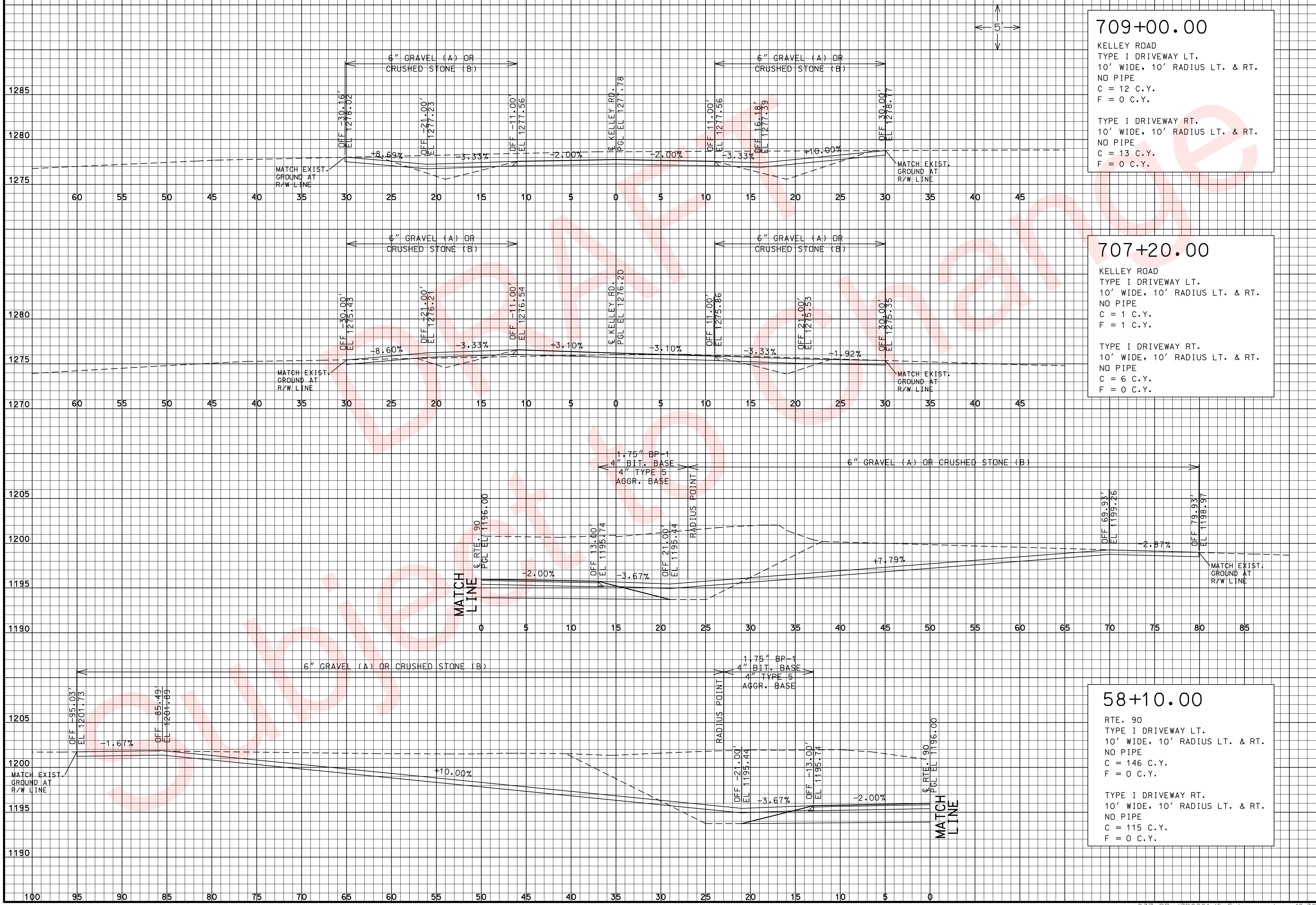
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



709+00.00

KELLEY ROAD
TYPE I DRIVEWAY LT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 12 C.Y.
F = 0 C.Y.

TYPE I DRIVEWAY RT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 13 C.Y.
F = 0 C.Y.

707+20.00

KELLEY ROAD
TYPE I DRIVEWAY LT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 1 C.Y.
F = 1 C.Y.

TYPE I DRIVEWAY RT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 6 C.Y.
F = 0 C.Y.

58+10.00

RTE. 90
TYPE I DRIVEWAY LT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 146 C.Y.
F = 0 C.Y.

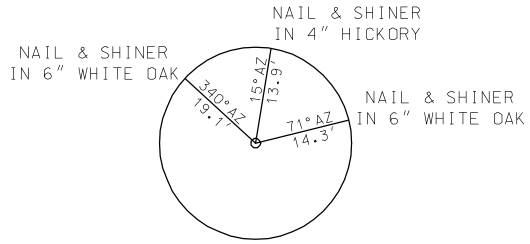
TYPE I DRIVEWAY RT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 115 C.Y.
F = 0 C.Y.

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	37
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE
REV.

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

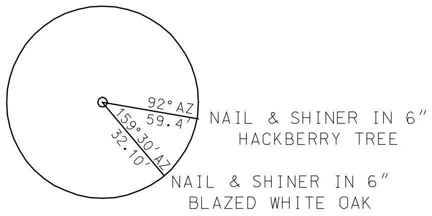
TARGET "P"



CLOTH TARGET WITH 80d NAIL FOR CENTER .25' BELOW SURFACE ± 520' E/OF CO. RD. TO SOUTH, ± S/OF STATE LINE, .15 MILES E/OF GATE AT BACK ENTRANCE OF KELLEY PROPERTY. SEC. 34, T 21 N, R 32 W

ARKANSAS - SEC 15, TWP 21, RNG 31

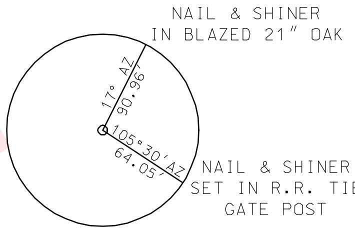
TARGET "G"



CLOTH TARGET SET WITH ⅝"x18" IP WITH DRILLED CENTER SET IN CONC. CONC. IS 0.05' BELOW SURFACE. IP IS 0.03' ABOVE CONC. TARGET SCALES 1400' E.& 475'N/OF THE SE COR. SEC. 27, TWN 21, RNG 32 AT THE MEETING OF WHITE OAK HOLLOW & CAVE HOLLOW AS SHOWN ON NOEL QUAD MAP PROV. EDITION 1982 EDWIN KELLEY PROPERTY

T-POST X 4 SET ON 6' O/S N.S.E. & W/OF TARGET WITH BARBED WIRE

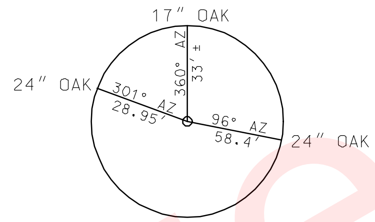
TARGET "F"



CLOTH TARGET SET WITH ⅝"x18" IP WITH DRILLED CENTER SET IN CONC. CONC. IS 0.15' BELOW SURFACE. IP IS 0.03' ABOVE CONC. TARGET "F" IS LOCATED NEAR THE N.W. COR. SEC. 24, TWN 21, RNG 32, AT THE MOUTH OF WHITE OAK HOLLOW AS SHOWN ON THE NOEL QUAD MAP PROV. EDITION 1982 EDWIN KELLEY PROPERTY

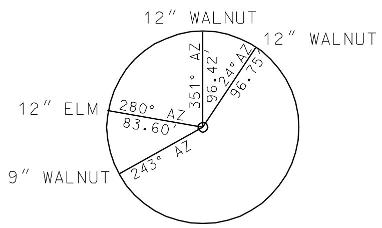
T-POST X 4 SET ON 6' O/S N.S.E. & W/OF TARGET WITH BARBED WIRE

TARGET "P"



CLOTH TARGET WITH 80d NAIL FOR CENTER 0.10' BELOW SURFACE, N.W. COR. OF INTERSECTION OF RTE. 90 AND CO. RD. S.E. QTR. OF SEC. 21, T 21 N, R 32 W PER NOEL QUAD PROV. DEITION 1982

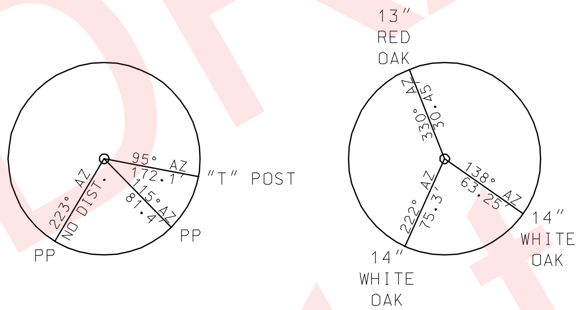
TARGET "HH"



CLOTH TARGET SET WITH 80d NAIL FOR CENTER, 0.25' BELOW SURFACE TARGET SCALES 2200'N AND 800'EAST OF S.W. COR. SEC. 22, T 21 N, R 32 W, AS SHOWN ON NOEL USGS. LLOYD SUMNER PROPERTY

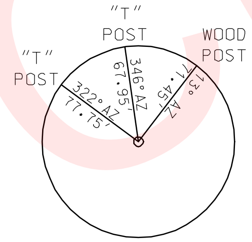
(TARGET FENCED)

TARGET "QQ"



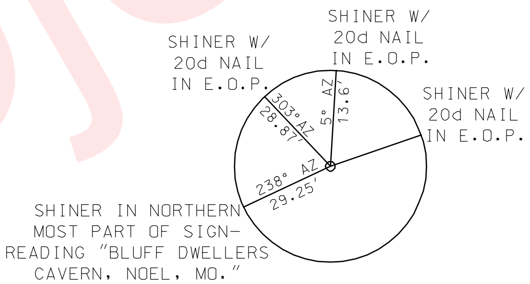
CLOTH TARGET SET WITH ⅝"x18" IP WITH DRILLED CENTER SET IN CONC. CONC. IS 0.25' BELOW SURFACE. IP ABOVE CONC. TO REACH TARGET "QQ." TAKE TRAIL NORTH OF DONALD GARDNER HOUSE, FOLLOW TRAIL TO THE NORTH. TRAIL TURNS BACK TO WEST THRU GATE. TARGET LOCATED APPROX. 100 FT. WEST OF GATE. SEC 15, T 21 N, R 32 W

TARGET "PP"



CLOTH TARGET SET WITH 80d NAIL FOR CENTER, 0.20' BELOW SURFACE TARGET IS LOCATED ON RAYMOND GARDNER PROPERTY SEC. 15, T 21 N, R 32 W,

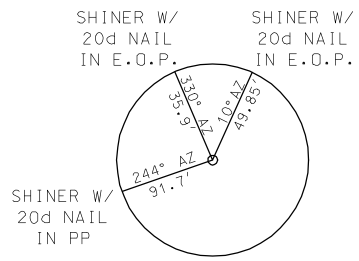
GPS 306



SET 80d NAIL WITH "." FOR CENTER, 0.34' BELOW SURFACE, ±1140' EAST OF INTERSECTION RTE.90 WITH GOODIN HOLLOW ROAD. ±13.6' SOUTH OF E.O.P. RTE. 90, WEST SIDE OF FIELD ENTRANCE

NOTE: ALL BEARINGS ARE MAGNETIC NORTH
NOTE: ALL DISTANCES ARE SLOPE

GPS 307



SET 80d NAIL WITH "." CENTER 0.2' BELOW SURFACE. ±0.4 MILES EAST OF INTERSECTION RTE. 90 AND GOODIN HOLLOW ROAD ±35.9' SOUTH OF E.O..P. RTE. 90 ON WEST SIDE OF FIELD ENTRANCE.

NOTE: ALL BEARINGS ARE MAGNETIC NORTH
NOTE: ALL DISTANCES SLOPE

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 38
COUNTY	McDONALD
JOB NO.	J7P0601
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)

REV.

Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor : 1.0001042

SHEET NO.	STATION[1]	LOCATION	OFFSET[1]	NORTHING (METERS)	EASTING (METERS)	DESCRIPTION	DESIGN PT. ID
	712+52.88	CL	0	860069.649	44877.427	BEGIN SBL, PC	1200-01
	717+65.48	RT	ON TANGENT	860145.348	45045.539	PI	1200-01
	722+77.90	CL	0	860214.861	44600.865	PT	1200-01
	740+90.91	CL	0	860460.724	44106.030	PC	1200-02
	750+72.37	RT	ON TANGENT	860593.820	43838.156	PI	1200-02
	760+15.79	CL	0	860587.811	43539.099	PT	1200-02
	764+93.73	CL	0	860584.885	43393.467	END SBL	120004
	704+38.87	CL	0	859962.767	45101.826	BEGIN NBL, PC	1100-01
	710+70.54	RT	ON TANGENT	860056.052	44933.422	PI	1100-01
	716+97.14	CL	0	860183.782	44789.385	PT	1100-01
	727+42.03	CL	0	860395.070	44551.123	PC	1100-02
	739+20.39	RT	ON TANGANT	860633.345	44282.427	PI	1100-02
	749+77.89	CL	0	860613.604	43923.842	PT	1100-02
	752+90.16	CL	0	860608.373	43828.816	PC	1100-03
	755+86.91	RT	ON TANGENT	860603.402	43738.514	PI	1100-03
	758+83.59	CL	0	860601.585	43648.095	PT	1100-03
	767+20.00	CL	0	860596.464	43393.234	END NBL	110005
	764+93.73	CL	0	860594.331	43393.277	BEGIN I-49	100001
	794+66.73	CL	0	860576.130	42487.383	PC	1000-01
	808+04.90	RT	ON TANGENT	860567.938	42079.635	PI	1000-01
	820+57.65	CL	0	860325.374	41751.779	PT	1000-01
	831+84.92	CL	0	860121.037	41475.593	PC	1000-02
	841+75.20	LT	ON TNGENT	859941.533	41232.970	PI	1000-02
	851+29.96	CL	0	859889.322	40935.713	PT	1000-02
	876+75.92	CL	0	859755.091	40171.484	PC	1000-03
	910+47.28	LT	ON TANGENT	859577.342	39159.490	PI	1000-03
	942+34.86	CL	0	859974.125	38211.708	PT	1000-03
	1035+47.53	CL	0	861070.152	35593.662	END I-49	100005

1 Ground Distance

NOTE : The reciprocal of the average grid factor is used as a multiplier from state plane distance to ground distance.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 39
COUNTY McDONALD	
JOB NO. J7P0601	
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.

Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor : 1.0001042

SHEET NO.	STATION[1]	LOCATION	OFFSET[1]	NORTHING (METERS)	EASTING (METERS)	DESCRIPTION	DESIGN PT. ID
	1000+00.00	CL	0	859869.496	40750.607	BEGIN RAMP 1, PC	110-01
	1003+73.50	LT	ON TANGENT	859849.804	40638.492	PI	110-01
	1007+42.91	CL	0	859859.163	40525.046	PT	110-01
	1015+79.58	CL	0	859880.127	40270.919	END	11003
	2000+00.00	CL	0	859856.751	40822.502	BEGIN RAMP 2, PC	120-01
	2002+92.58	RT	ON TANGENT	859841.325	40734.676	PI	120-01
	2005+83.19	CL	0	859808.667	40651.701	PT	120-01
	2018+37.09	CL	0	859668.706	40296.104	END	12003
	3000+00.00	CL	0	859880.127	40270.919	BEGIN RAMP 3	13001
	3013+82.12	CL	0	859754.976	39868.712	PC	130-01
	3017+99.62	LT	ON TANGENT	859717.172	39747.217	PI	130-01
	3022+11.42	CL	0	859715.174	39619.993	PT, END	130-01
	4000+00.00	CL	0	859668.706	40296.104	BEGIN RAMP 4	14001
	4012+36.65	CL	0	859691.819	39919.919	PC	140-01
	4015+57.24	RT	ON TANGENT	859697.811	39816.303	PI	140-01
	4018+77.22	CL	0	859693.377	39724.794	PT, END	140-01
	38+99.98	CL	0	859444.708	40341.612	BEGIN RTE. 90	10001
	47+63.54	CL	0	859702.625	40289.213	PC	100-1
	50+97.57	LT	ON TANGENT	859802.390	40268.944	PI	100-1
	54+28.87	CL	0	859904.170	40271.116	PT	100-1
	59+95.05	CL	0	860076.687	40274.798	PC	100-2
	61+39.27	LT	ON TANGENT	860120.629	40275.736	PI	100-2
	62+80.13	CL	0	860161.205	40292.629	PT	100-2
	62+80.13	CL	0	860161.205	40292.629	PC	100-3
	63+84.13	LT	ON TANGENT	860190.468	40304.812	PI	100-3
	64+87.83	CL	0	860217.826	40320.823	PT	100-3
	65+55.68	CL	0	860235.675	40331.269	END	10002

1 Ground Distance

NOTE : The reciprocal of the average grid factor is used as a multiplier from state plane distance to ground distance.

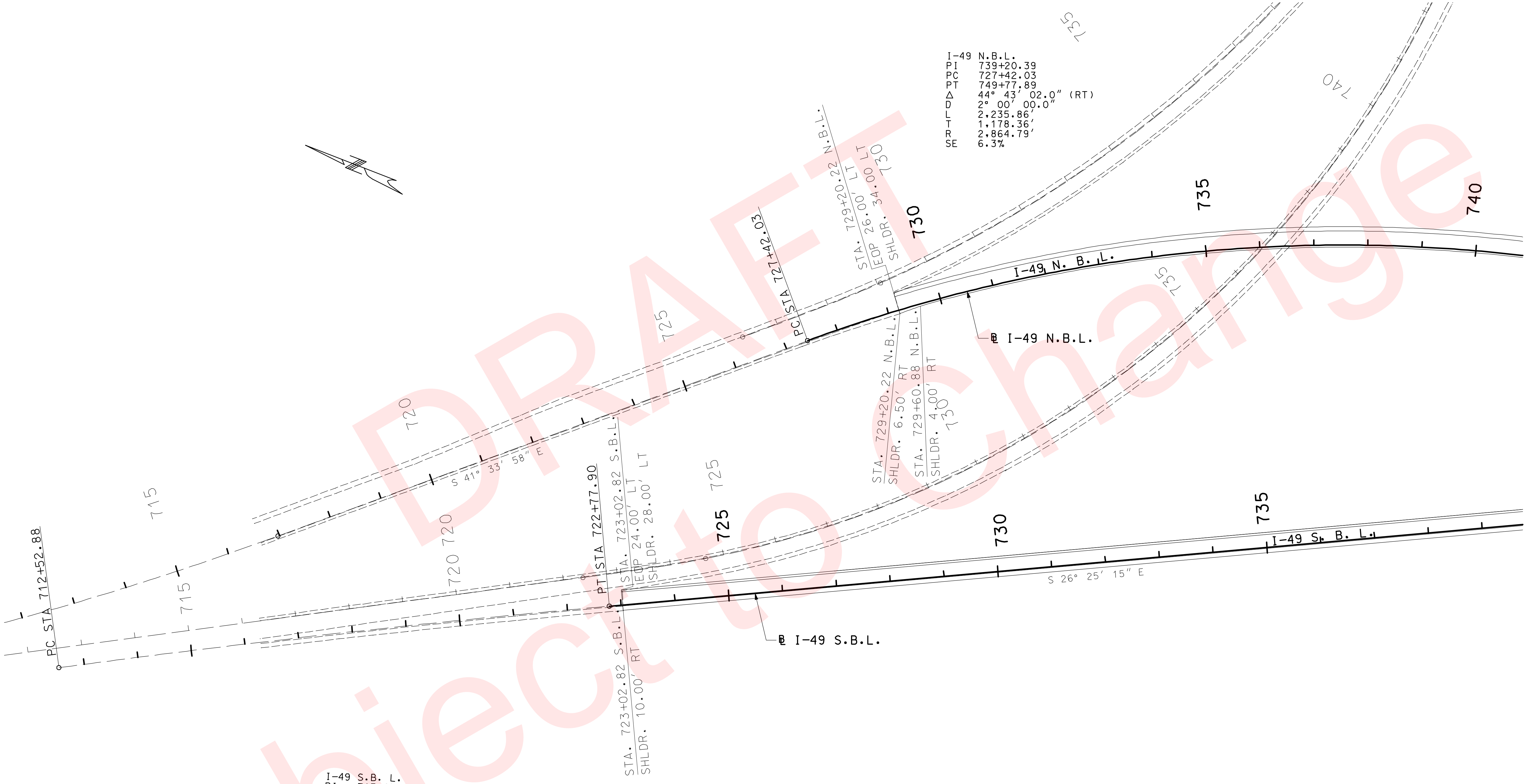
Coordinated Point Sheet
Sheet 2 of 2

DATE PREPARED 02/04/2010
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 40
COUNTY McDONALD
JOB NO. J7P0601
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.



I-49 N.B.L.

PI	739+20.39
PC	727+42.03
PT	749+77.89
Δ	44° 43' 02.0" (RT)
D	2° 00' 00.0"
L	2,235.86'
T	1,178.36'
R	2,864.79'
SE	6.3%

I-49 S.B. L.

PI	717+65.48
PC	712+52.88
PT	722+77.90
Δ	2° 33' 45.2" (RT)
D	0° 15' 00.0"
L	1,025.02'
T	512.59'
R	22,918.31'

SCALE

0 100 200 300 400 500

I-49 N.B.L. & S.B.L.
PAVEMENT TRANSITION DETAILS

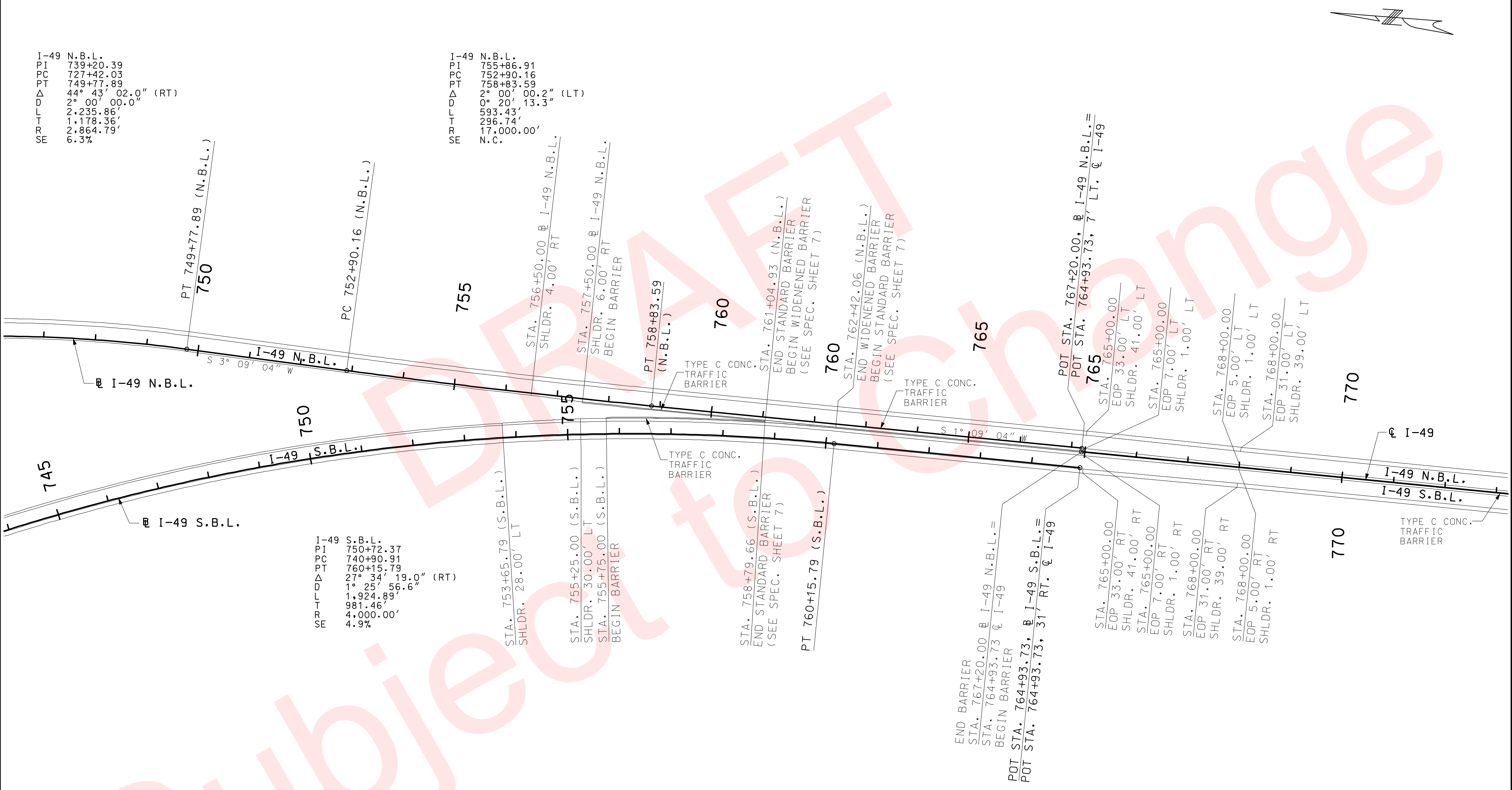
SPECIAL SHEET
SHEET 1 OF 16

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 41
COUNTY	McDONALD
JOB NO.	J7P0601
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)



DRAFT Subject to Change

I-49 N.B.L. & S.B.L.
PAVEMENT TRANSITION DETAILS

SPECIAL SHEET
SHEET 2 OF 16

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 42
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

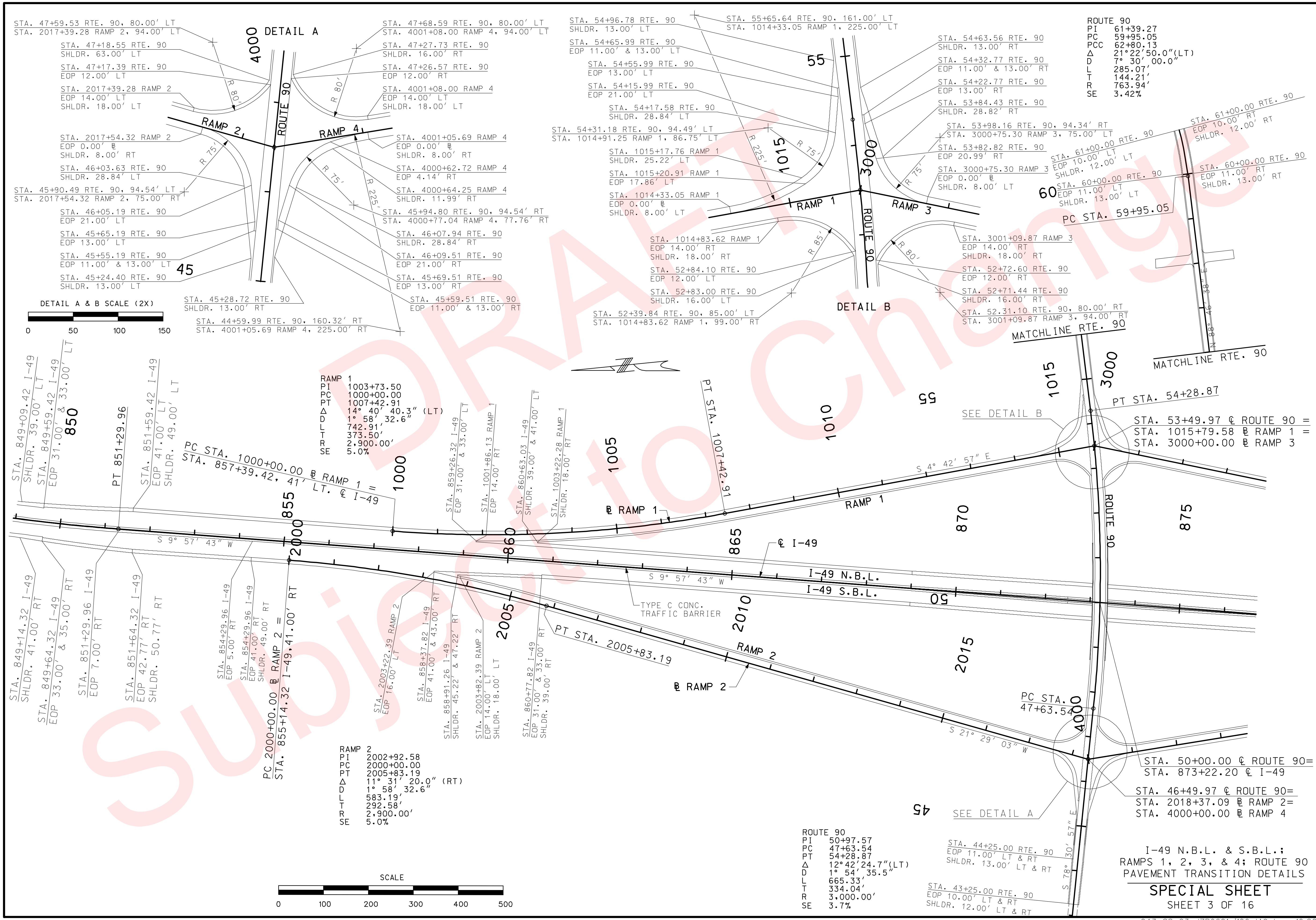
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

042_SS_02_J7P0601_i100_i49.dgn 10:20:37 AM 02/04/2010



I-49 N.B.L. & S.B.L.;
RAMPS 1, 2, 3, & 4; ROUTE 90
PAVEMENT TRANSITION DETAILS

SPECIAL SHEET

SHEET 3 OF 16

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	43
COUNTY	
McDONALD	
JOB NO.	
J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

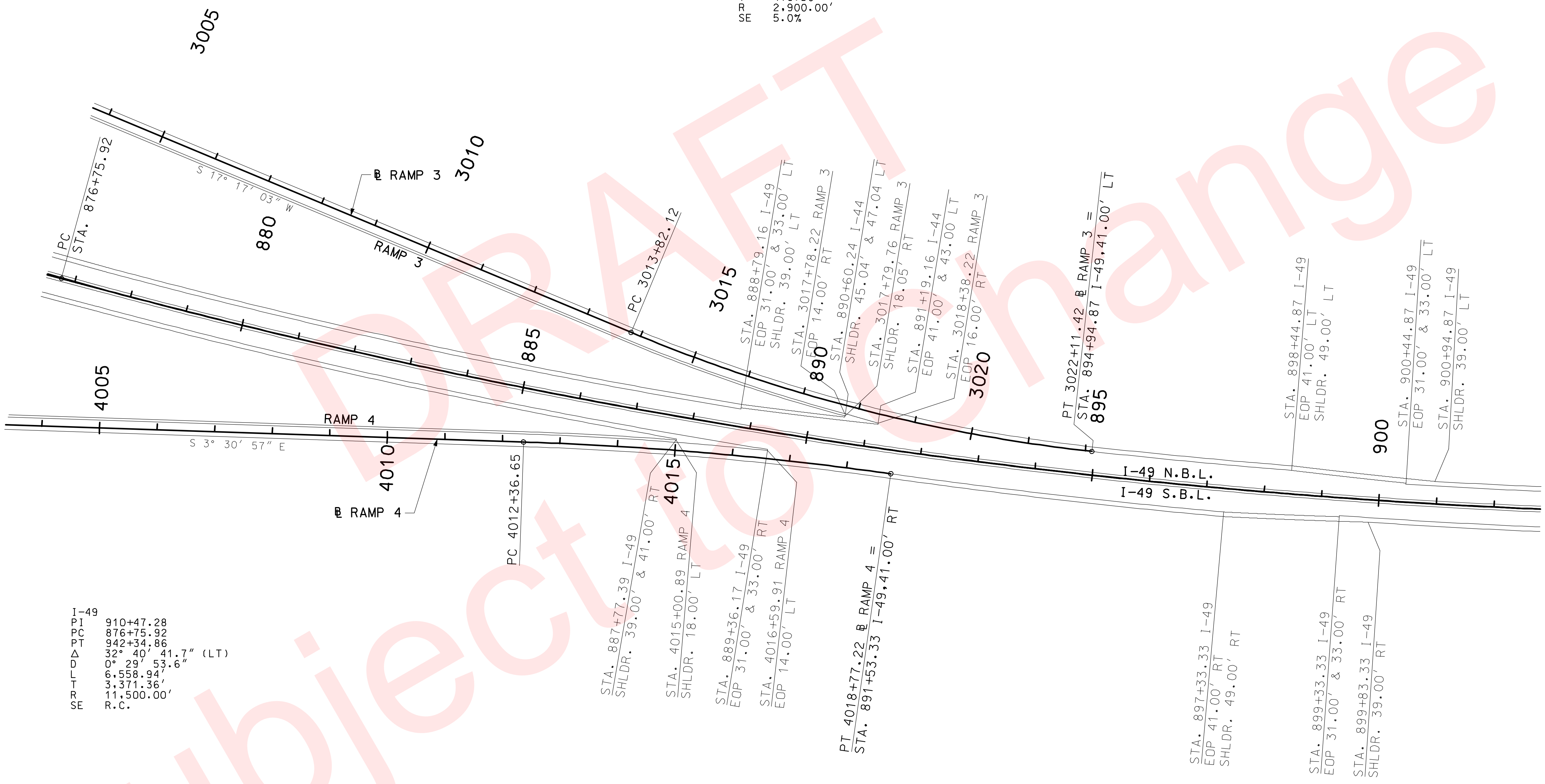
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

043_SS_03_J7P0601_i100_i49.dgn 10:20:59 AM 02/04/2010

RAMP 3
PI 3017+99.62
PC 3013+82.12
PT 3022+11.42
Δ 16° 23′ 04.5″ (LT)
D 1° 58′ 32.6″
L 829.30′
T 416.50′
R 2,900.00′
SE 5.0%



I-49
PI 910+47.28
PC 876+75.92
PT 942+34.86
Δ 32° 40′ 41.7″ (LT)
D 0° 29′ 53.6″
L 6,558.94′
T 3,371.36′
R 11,500.00′
SE R.C.

RAMP 4
PI 4015+57.24
PC 4012+36.65
PT 4018+77.22
Δ 6° 07′ 01.1″ (RT)
D 0° 57′ 17.7″
L 640.57′
T 320.59′
R 6,000.00′
SE 2.7%

SCALE
0 100 200 300 400 500

I-49 N.B.L. & S.B.L.;
RAMPS 3 & 4
PAVEMENT TRANSITION DETAILS

SPECIAL SHEET
SHEET 4 OF 16

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

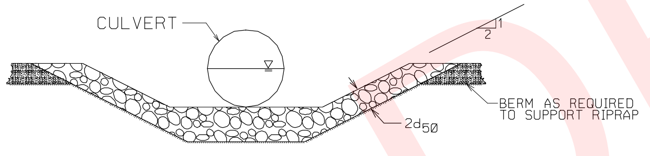
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 44
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE | DESCRIPTION

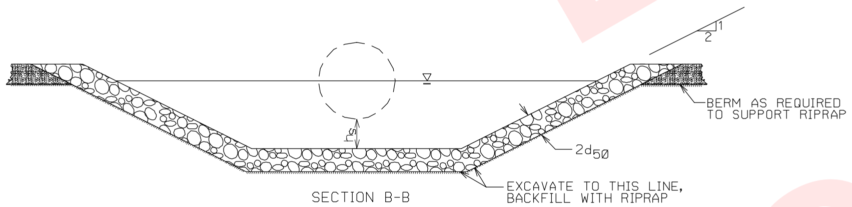
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

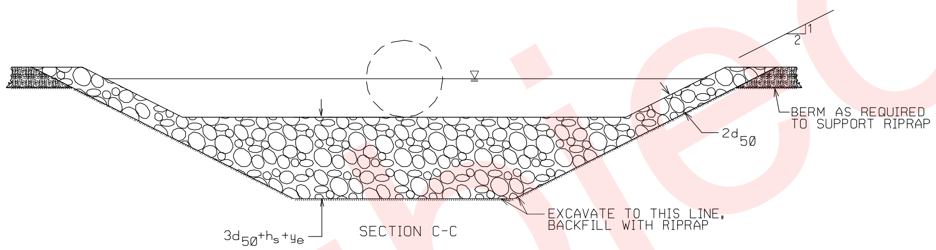
	CULVERT DETAILS		BASIN DIMENSIONS						RIPRAP DIMENSIONS																		
										DOWNSLOPE			DISSIPATOR POOL			WIER			APRON w/o TOE			TOE			SIDE SLOPES		
RTE.	CENTERLINE STATION	CULVERT WIDTH DO	hs	Ye	TW	LS	LA	LT	d50	DEPTH	LENGTH	WIDTH	DEPTH	LENGTH	WIDTH	DEPTH	LENGTH	WIDTH	DEPTH	LENGTH	WIDTH	DEPTH	LENGTH	WIDTH	DEPTH	LENGTH	WIDTH
I-49 SBL	731+00.00	36″	0.96	1.88	0.89	10	5	1.69	0.85	2.54	1.92	3.6	1.69	5.75	6.2	5.38	1.92	8.8	1.69	3.10	9.9	3.38	1.7	12.30	1.69	15.15	8.58
I-49 SBL	739+41.86	5′x 5′	1.26	3.15	1.48	15	6	2.84	1.42	4.25	2.52	5.8	2.84	9.96	10.0	8.66	2.52	14.2	2.84	3.47	15.2	5.67	2.8	18.73	2.84	22.45	12.10
I-49 NBL	758+17.83	30″	1.10	1.57	1.25	11	5	1.41	0.70	2.11	2.19	3.2	1.41	6.58	6.2	4.78	2.19	9.1	1.41	4.07	10.7	2.82	1.4	13.23	1.41	17.33	8.19
I-49 NBL	760+00.63	24″	1.50	1.25	1.27	15	8	1.13	0.56	1.69	3.01	3.0	1.13	9.02	7.0	4.45	3.01	11.0	1.13	6.39	13.8	2.26	1.1	16.85	1.13	23.77	8.40
I-49	768+06.77	10′x 8′	2.30	5.12	1.07	30	12	4.61	2.30	6.91	4.61	11.5	4.61	20.78	20.0	14.34	4.61	28.5	4.61	6.91	30.8	9.22	4.6	36.91	4.61	43.76	18.84
I-49	783+66.96	30″	2.19	1.57	1.69	22	11	1.41	0.70	2.11	4.39	4.0	1.41	13.16	9.8	5.87	4.39	15.7	1.41	9.55	19.8	2.82	1.4	24.19	1.41	34.66	10.64
I-49	794+44.90	2 - 8′x 8′	1.58	5.28	5.42	66	22	4.75	2.38	7.13	3.17	23.1	4.75	59.66	44.0	13.99	3.17	64.9	4.75	17.25	70.2	9.50	4.8	79.87	4.75	92.74	17.59
I-49	818+19.01	48″	2.63	2.51	0.48	26	13	2.26	1.13	3.38	5.26	5.8	2.26	15.79	12.8	8.52	5.26	19.8	2.26	10.90	24.4	4.51	2.3	29.94	2.26	41.60	13.73
I-49	831+22.78	36″	1.69	1.88	1.87	17	8	1.69	0.85	2.54	3.38	4.1	1.69	10.15	8.6	6.11	3.39	13.1	1.69	6.77	16.0	3.38	1.7	19.63	1.69	26.74	10.22
I-49	844+08.90	6′x 5′	1.79	3.90	2.65	18	9	3.51	1.76	5.27	3.59	7.2	3.51	10.82	12.0	10.96	3.59	16.8	3.51	5.46	18.7	7.02	3.5	23.40	3.51	28.42	14.97
RAMP 4	4007+25.00	24″	0.86	1.25	0.68	9	4	1.13	0.56	1.69	1.73	2.6	1.13	5.19	4.9	3.81	1.73	7.2	1.13	3.20	8.5	2.26	1.1	10.46	1.13	13.67	6.97
I-49	887+10.93	7′x 6′	2.17	4.62	3.15	22	11	4.16	2.08	6.24	4.34	8.4	4.16	13.03	14.2	13.03	4.34	20.0	4.16	6.70	22.3	8.32	4.2	28.02	4.16	34.33	17.43
I-49	899+93.87	4′x 4′	1.27	2.76	1.30	13	6	2.48	1.24	3.73	2.54	4.8	2.48	7.62	8.2	7.76	2.54	11.6	2.48	3.86	12.9	4.97	2.5	16.28	2.18	20.07	11.25
I-49	909+72.11	7′x 6′	2.01	4.38	3.03	21	10	3.64	1.97	5.91	4.03	8.3	3.94	12.94	14.0	12.31	4.03	19.7	3.64	6.13	21.7	7.88	3.9	27.06	3.94	32.75	16.54
I-49	958+02.44	42″	0.88	2.19	1.39	11	4	1.97	0.99	2.96	1.75	4.1	1.97	6.99	7.0	6.03	1.75	9.9	1.97	2.41	10.6	3.95	2.0	13.09	1.97	15.69	9.10
I-49	964+60.36	60″	1.88	3.13	2.68	19	9	2.82	1.41	4.23	3.76	6.3	2.82	11.28	11.3	9.24	3.76	16.3	2.82	6.58	18.8	5.64	2.8	23.33	2.82	29.71	13.45



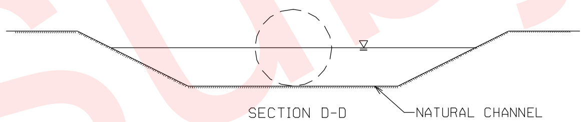
SECTION A-A



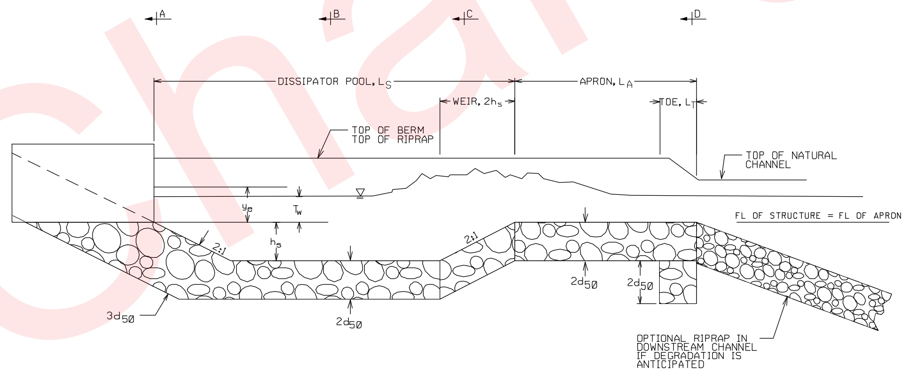
SECTION B-B



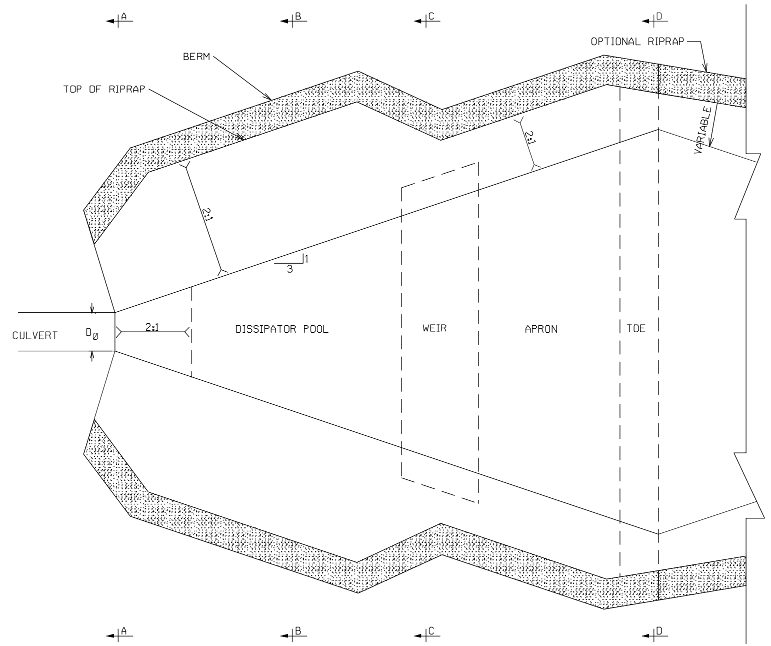
SECTION C-C



SECTION D-D



℄ SECTION



PLAN VIEW

GENERAL NOTES

THE MATERIALS FOR ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF SEC. 611.30 FOR TYPE 2 ROCK BLANKET

ALL EXCAVATION REQUIRED TO CONSTRUCT THE ENERGY DISSIPATORS SHALL BE COVERED UNDER THE PAY ITEM FOR CLASS 3 EXCAVATION.

WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL. TOP OF RIPRAP IN FLOOR OF BASIN DISSIPATOR POOL OR APRON SHALL BE AT THE SAME OR LOWER ELEVATION THAN THE NATURAL CHANNEL BOTTOM SECTION D-D. MODIFY FLAT BOTTOM WIDTH IF THE OPTIONAL EXTENDED TRANSITION IS REQUIRED.

MODIFY THE BASIN DIMENSIONS AS REQUIRED TO MATCH THE CONFIGURATION OF CULVERT END TREATMENTS.

REFER TO FHWA HEC-14 MANUAL FOR HYDRAULIC DESIGN PROCEDURES OF ENERGY DISSIPATORS FOR CULVERTS AND CHANNELS.

DESIRABLE SLOPE IS 0.0% IN DISSIPATOR POOL AND IN APRON FLAT BOTTOM.

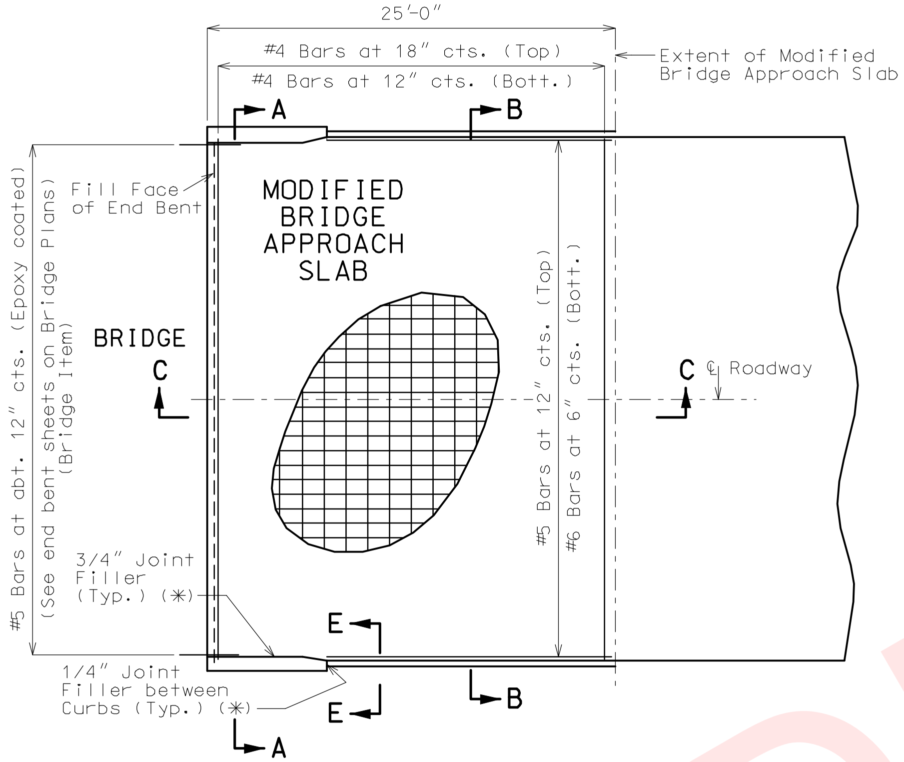
SPECIAL SHEET
ENERGY DISSIPATOR

DATE PREPARED 02/04/2010
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 45
COUNTY McDONALD
JOB NO. P6P0601
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

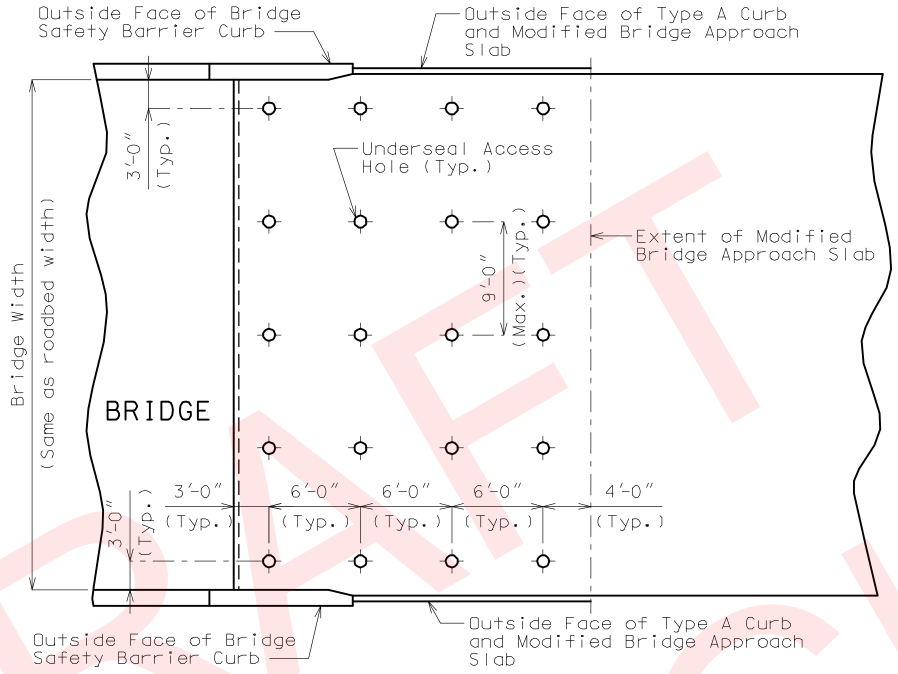
DESCRIPTION
DATE

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

REV.



PART PLAN SHOWING REINFORCEMENT
(SQUARE STRUCTURE SHOWN)



PART PLAN
(SHOWING TYPICAL UNDERSEAL ACCESS HOLE LOCATIONS)
(SQUARE STRUCTURE SHOWN)

GENERAL NOTES:

All concrete for the modified bridge approach slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler, except as noted.

The reinforcing steel in the modified bridge approach slab shall be uncoated Grade 60 with Fy = 60,000 psi, except as shown.

Minimum clearance to reinforcing steel shall be 1½", unless otherwise shown.

The reinforcing steel in the modified bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the bars 21" min.

Plain or deformed welded wire fabric of same strength and area per foot of slab may be substituted with the approval of the engineer. Sheets of WWF shall be lapped in accordance with CRSI.

Mechanical bar splices shall be in accordance with Sec 706.

(*) Seal joint between vertical face of modified bridge approach slab and wing with "Silicone Joint Sealant for Saw Cut and Formed Joints" in accordance with Sec 717.

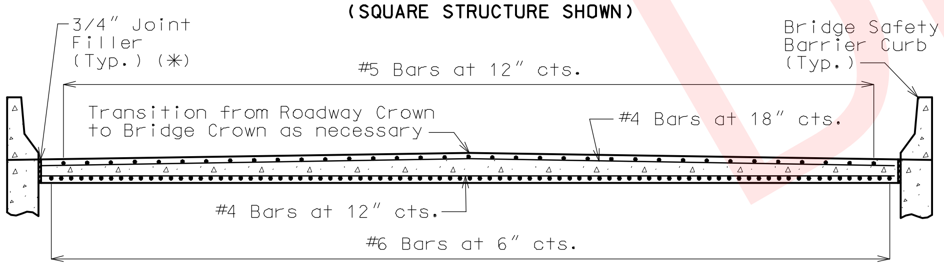
The contractor shall pour and satisfactorily finish the bridge or semi-deep slab before pouring the modified bridge approach slab.

Longitudinal construction joints in modified bridge approach slab shall be aligned with longitudinal construction joints in bridge or semi-deep slab.

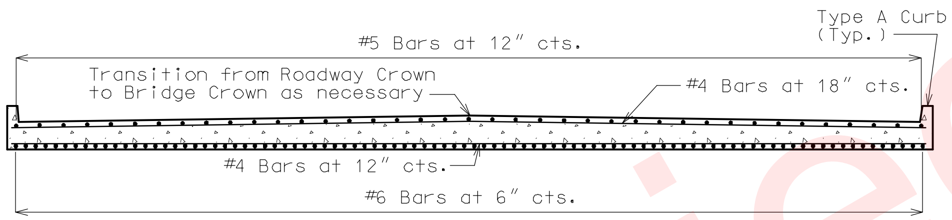
See Missouri Standard Plans Drawing 609.00 for details of Type A Curb.

At the contractor's option, Grade 40 reinforcement may be substituted for the Grade 60 #5 dowel bars connecting the modified bridge approach slab to the bridge abutment. No additional payment will be made for this substitution.

When Grade 40 reinforcement is substituted for the Grade 60 #5 dowel bars connecting the modified bridge approach slab to the bridge abutment, the reinforcement may be bent up to 90 degrees with a 2" minimum radius near the abutment to allow compaction of the backfill material near the abutment. Damage to epoxy coating shall be repaired in accordance with Sec 710.

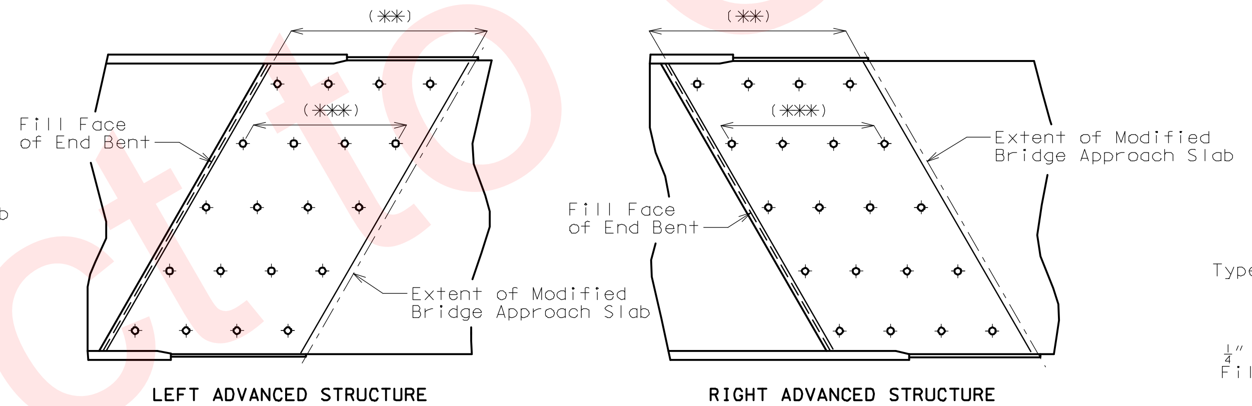


SECTION A-A



SECTION B-B

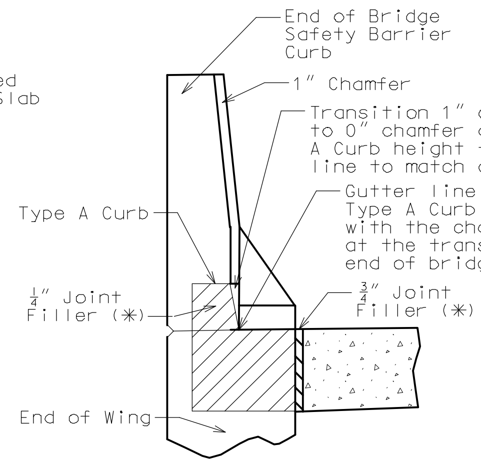
Note: With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



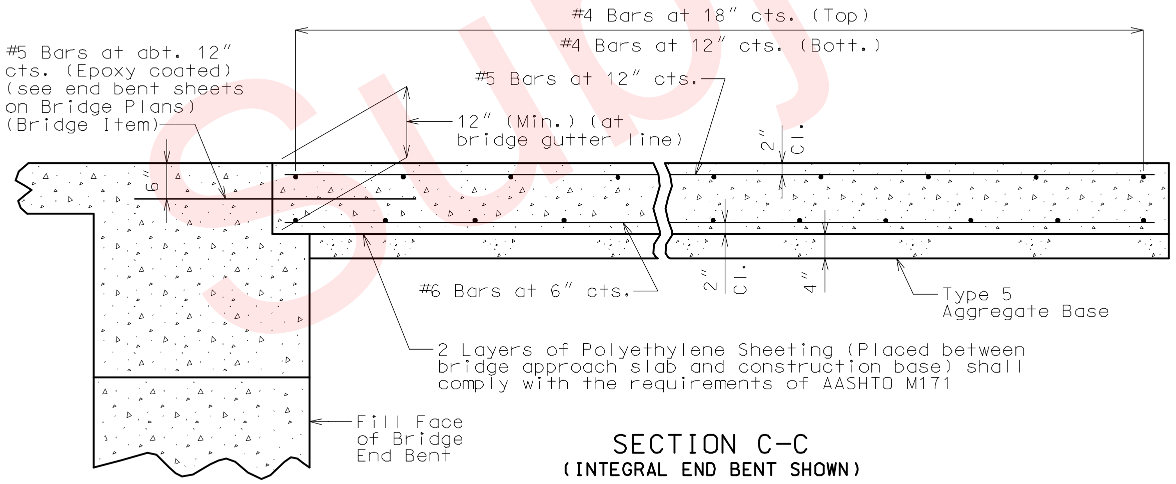
PART GENERAL PLANS OF SKEWED STRUCTURES

(**) Transverse reinforcing bars shall be placed parallel to End Bents.

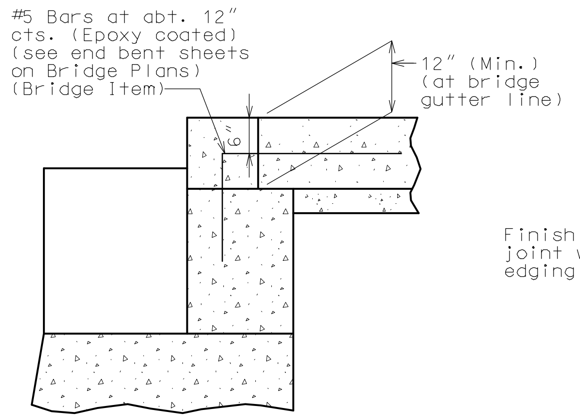
(***) Underseal access holes shall be laid out parallel to End Bents.



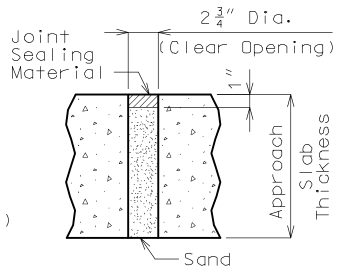
SECTION E-E
(BETWEEN CURBS)



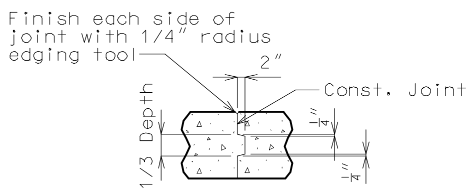
SECTION C-C
(INTEGRAL END BENT SHOWN)



PART SECTION C-C
(NON-INTEGRAL END BENT SHOWN)



TYPICAL UNDERSEAL ACCESS HOLE DETAIL



CONST. JOINT DETAIL
(IF REQUIRED)

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 46
COUNTY	McDONALD
JOB NO.	J7P0601
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)

MODIFIED BRIDGE APPROACH

SPECIAL SHEET

SHEET 6 OF 16

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

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equivalent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

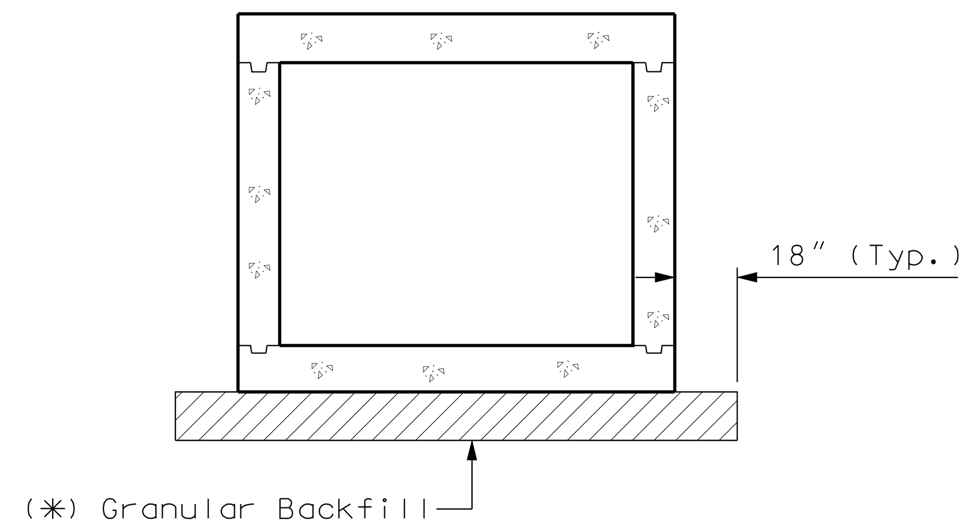
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

☐ Precast Box used
☐ Cast-in-Place Box used



SECTION THRU BOX
(Normal to ℄ Structure)

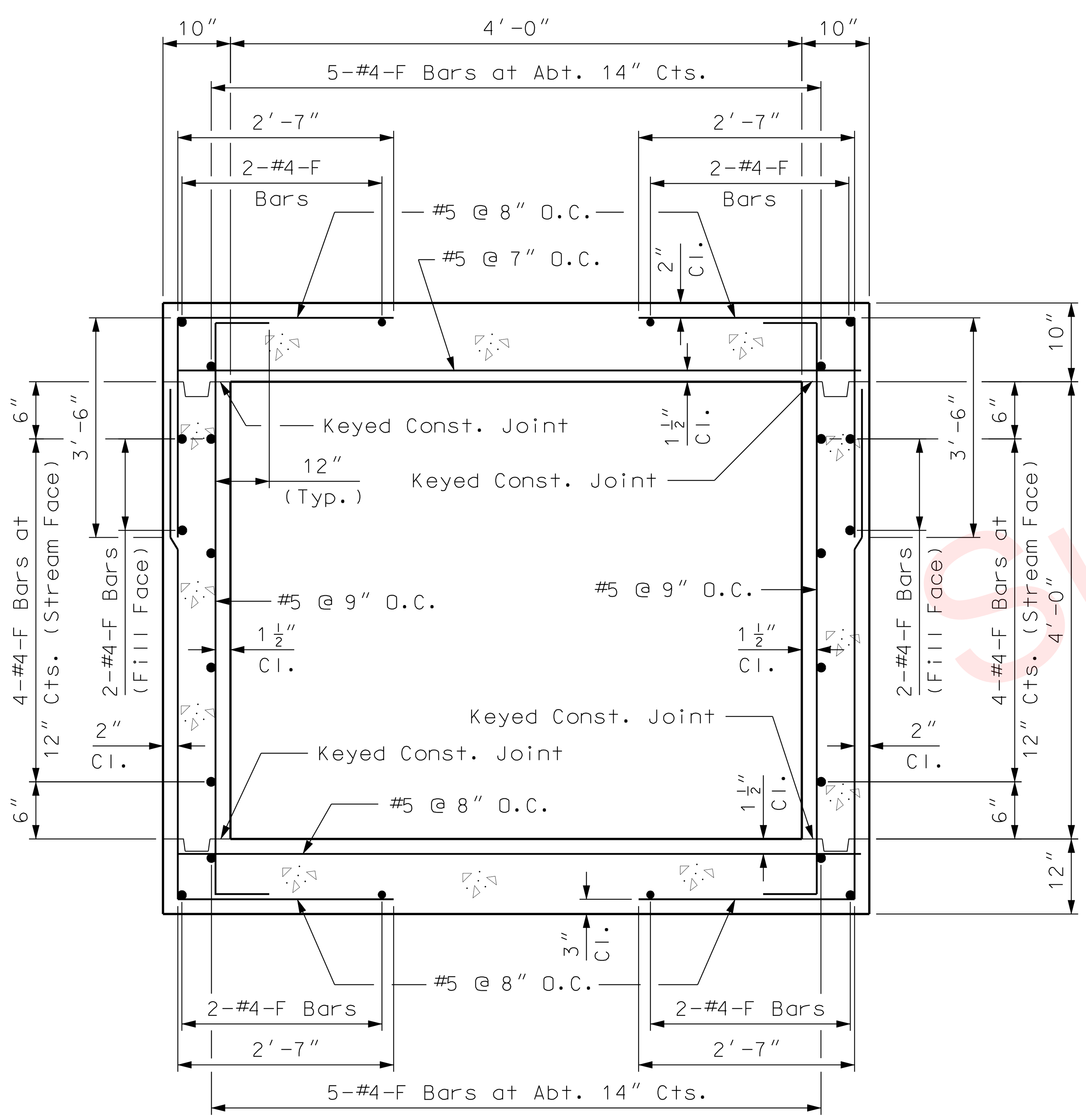
(✻) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Note:

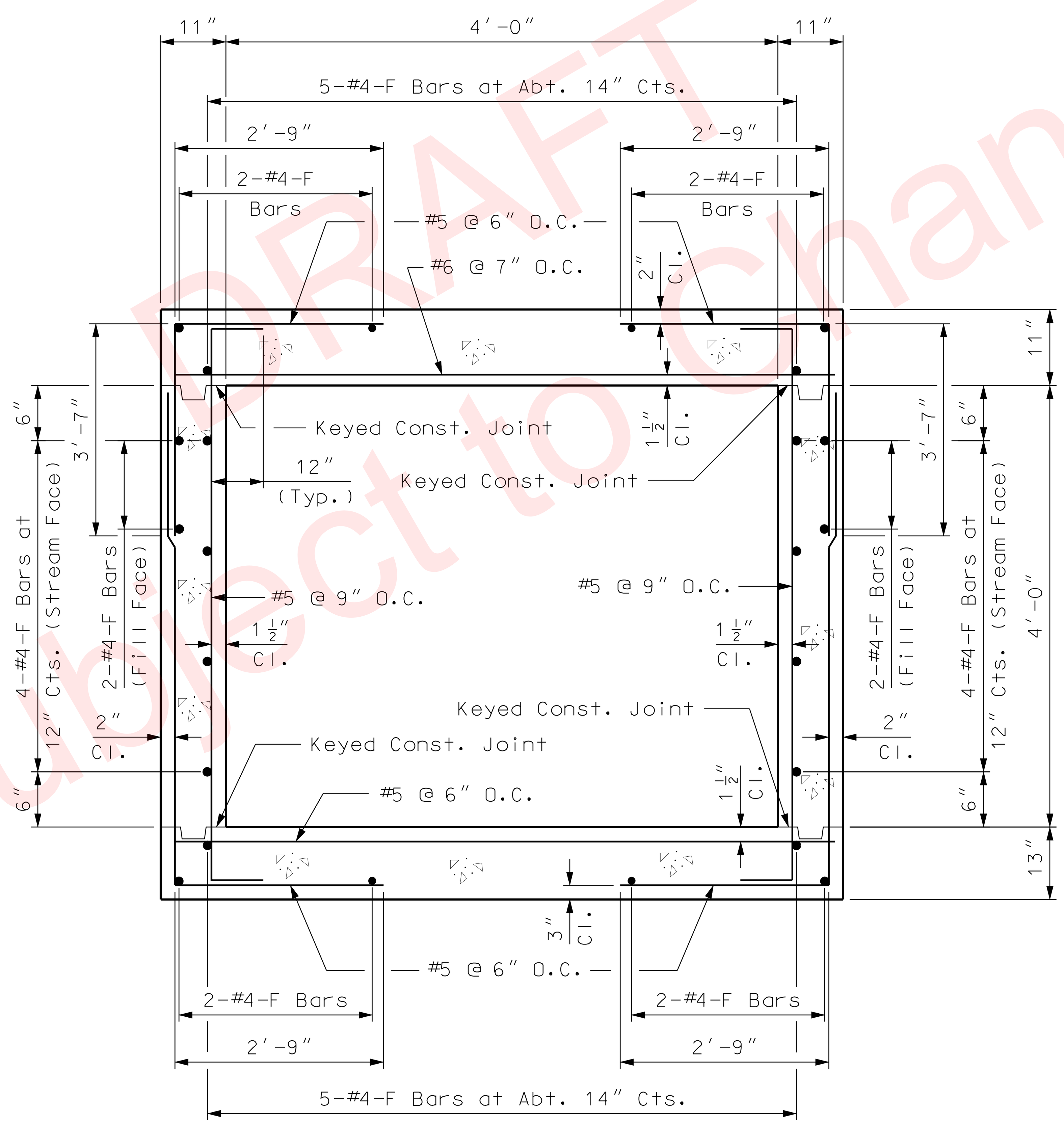
Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



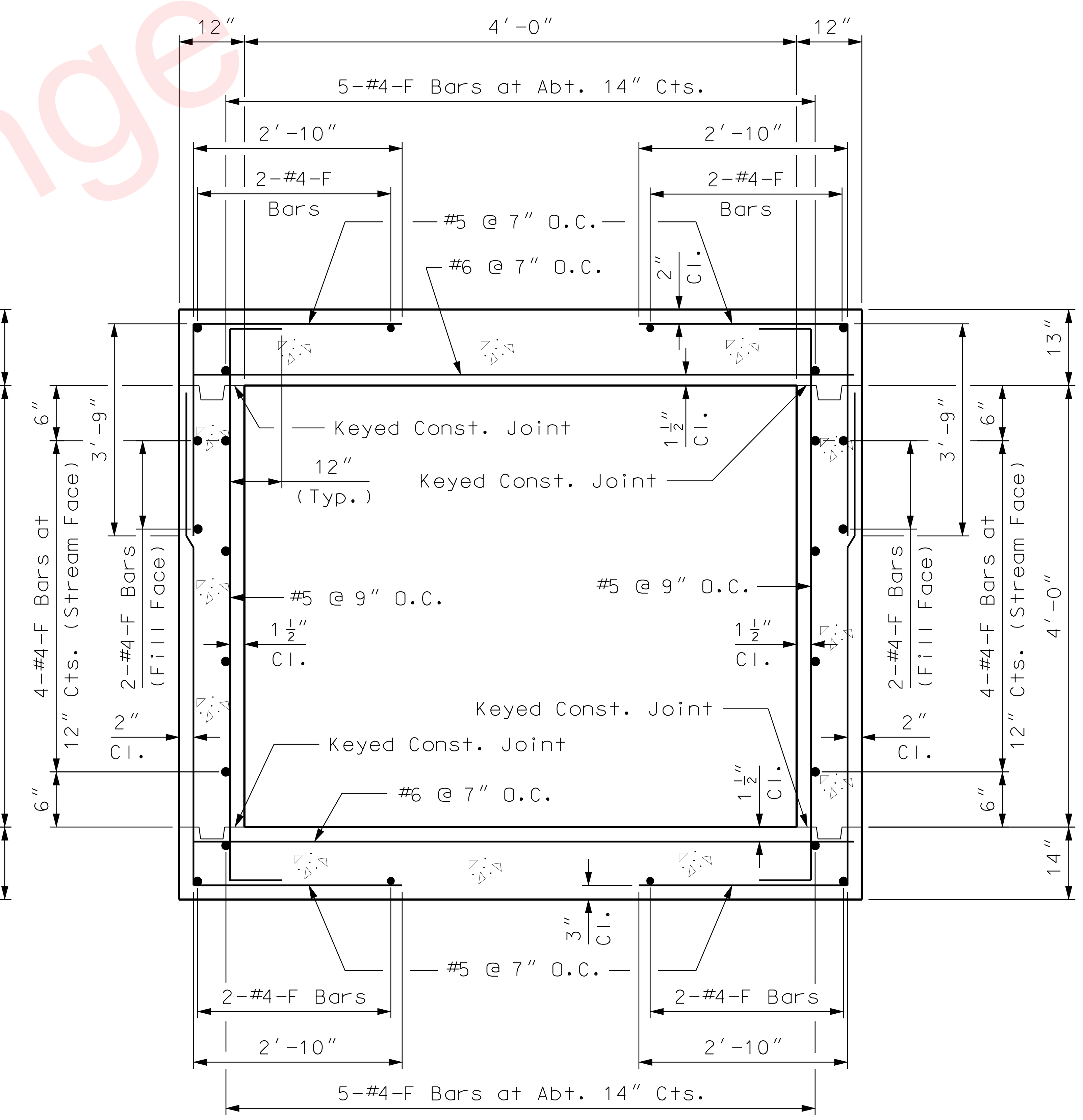
4' x 4' BOX CULVERT SECTION
SECTIONS A, B, C, K, L, M & N

Design Fill = 35.25'
Concrete = 0.63 cu. yard/ft.
Reinforcing Steel = 100 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



4' x 4' BOX CULVERT SECTION
SECTIONS D, E, I & J

Design Fill = 59.75'
Concrete = 0.70 cu. yard/ft.
Reinforcing Steel = 124 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



4' x 4' BOX CULVERT SECTION
SECTIONS F, G & H

Design Fill = 73.75'
Concrete = 0.80 cu. yard/ft.
Reinforcing Steel = 122 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

4' x 4' x 610' BOX CULVERT SECTION @ STA. 743+58.95 RTE. I-49 N.B.L.

Note: This drawing is not to scale. Follow dimensions.

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 7 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 47
COUNTY	McDONALD
JOB NO.	J7P0601
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)

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102
TAI

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equilivent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

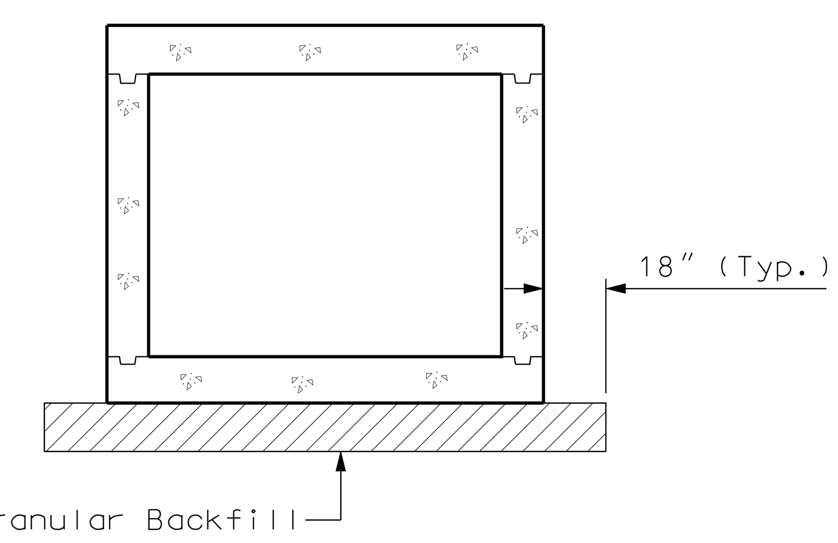
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

- ☐ Precast Box used
- ☐ Cast-in-Place Box used



SECTION THRU BOX
(Normal to ℄ Structure)

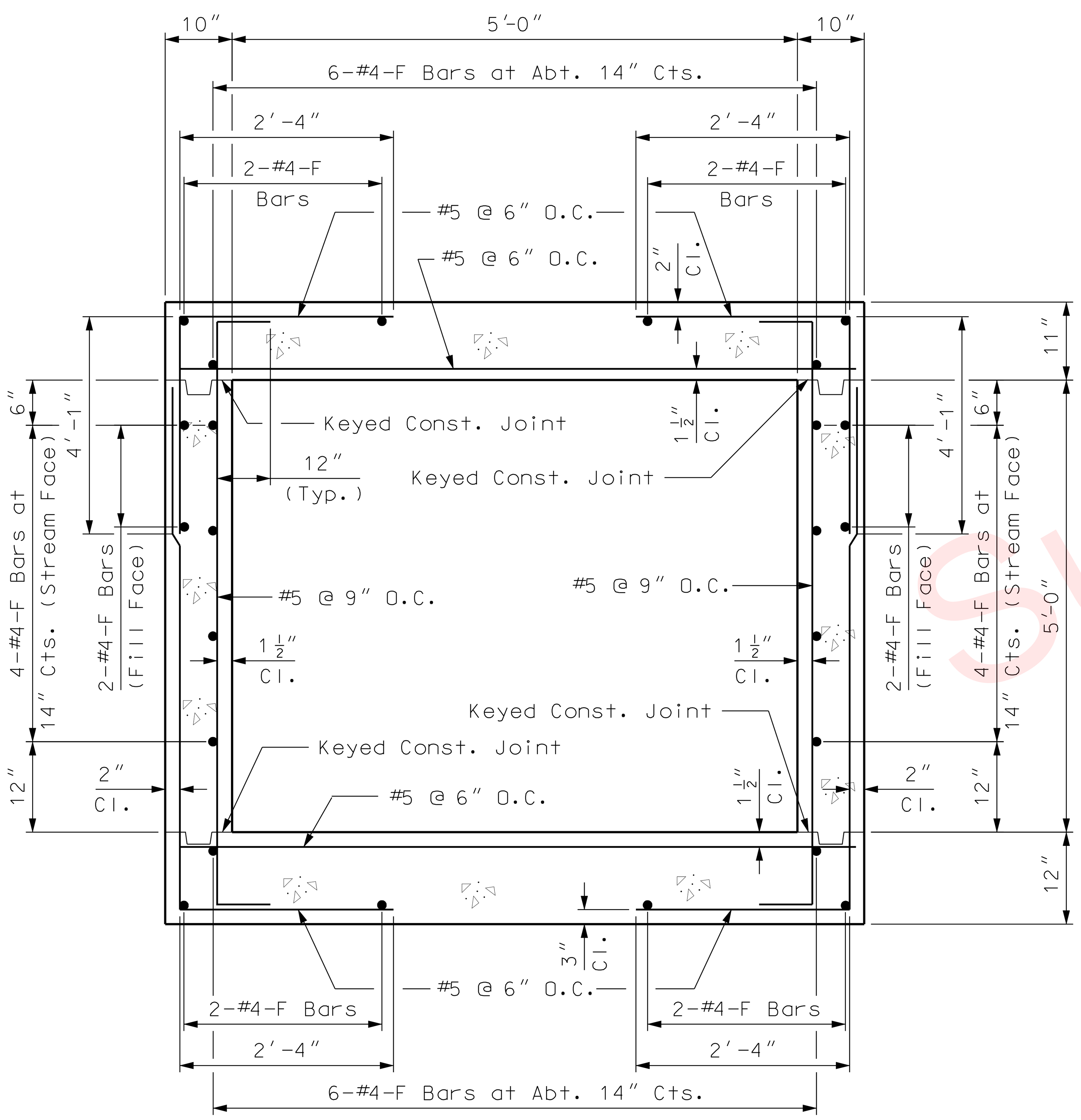
(✻) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Note:

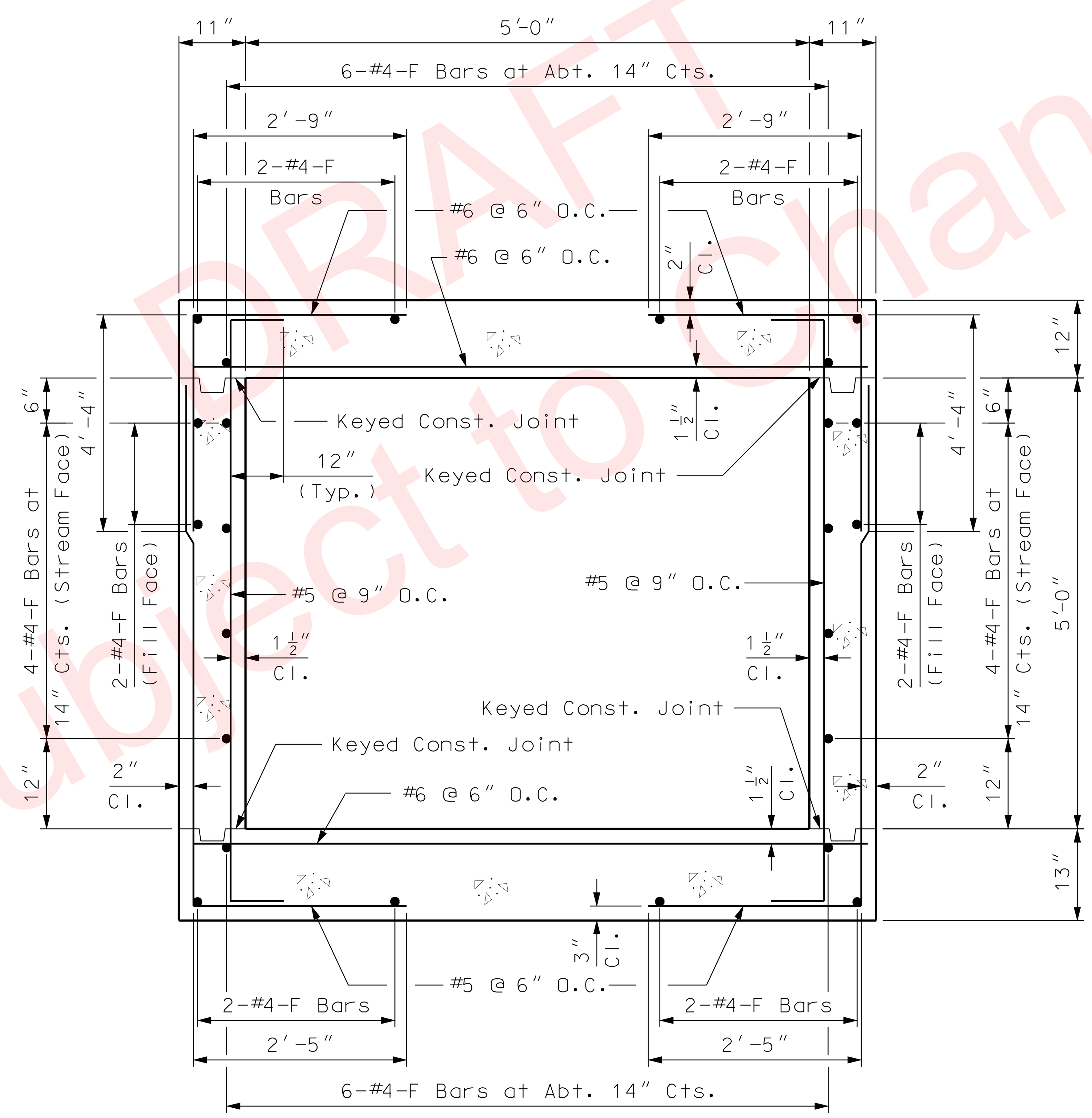
Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



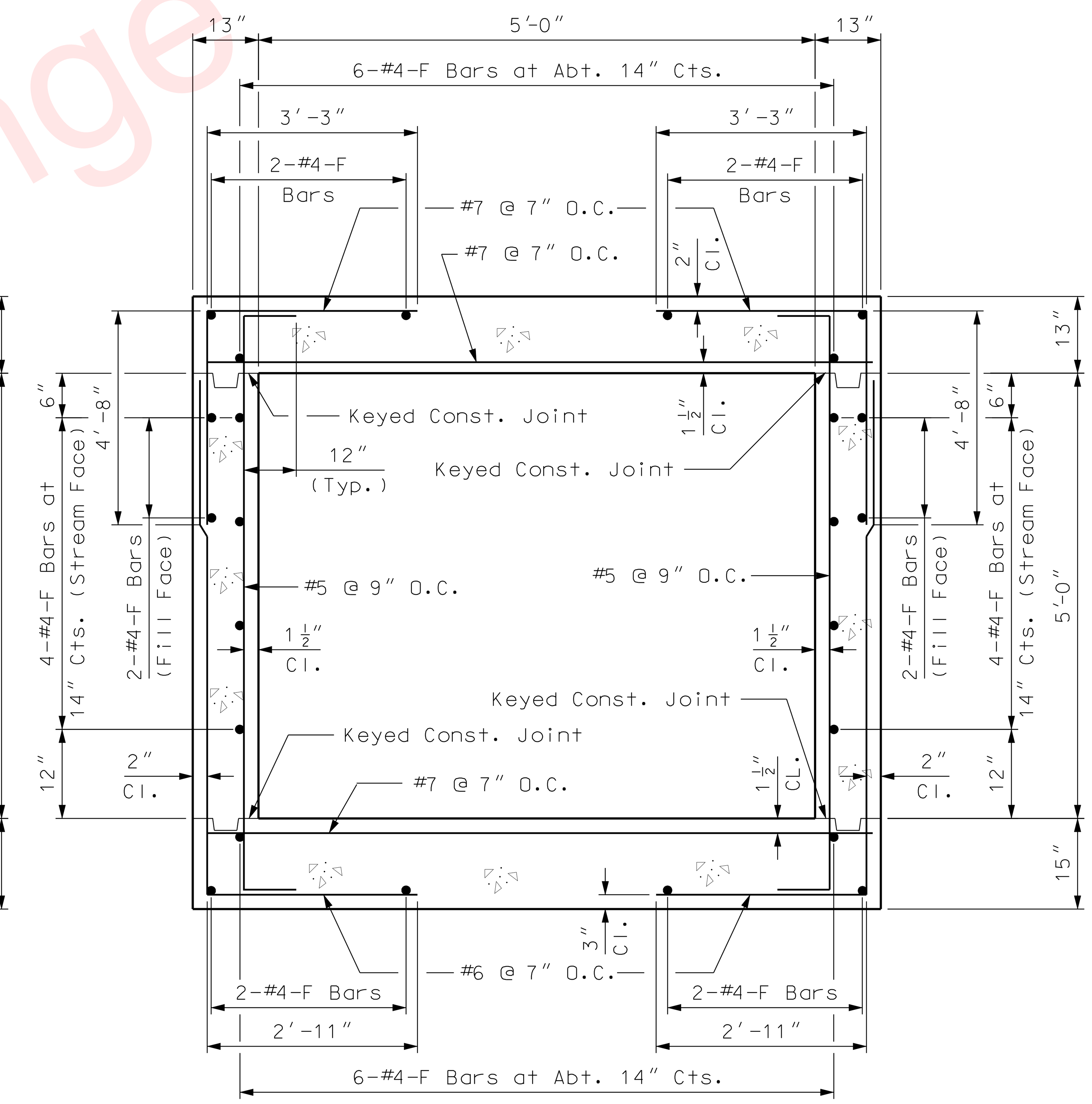
5' x 5' BOX CULVERT SECTION
SECTIONS A, B, I, J & K

Design Fill = 34.50'
Concrete = 0.78 cu. yard/ft.
Reinforcing Steel = 131 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



5' x 5' BOX CULVERT SECTION
SECTIONS C & H

Design Fill = 52.75'
Concrete = 0.87 cu. yard/ft.
Reinforcing Steel = 161 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



5' x 5' BOX CULVERT SECTION
SECTIONS D, E, F & G

Design Fill = 69.00'
Concrete = 1.02 cu. yard/ft.
Reinforcing Steel = 195 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

5' x 5' x 519' BOX CULVERT SECTION @ STA. 739+41.86 RTE. I-49 S.B.L.

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 48
COUNTY	McDONALD
JOB NO.	J7P0601
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)

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 8 OF 16

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equivalent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

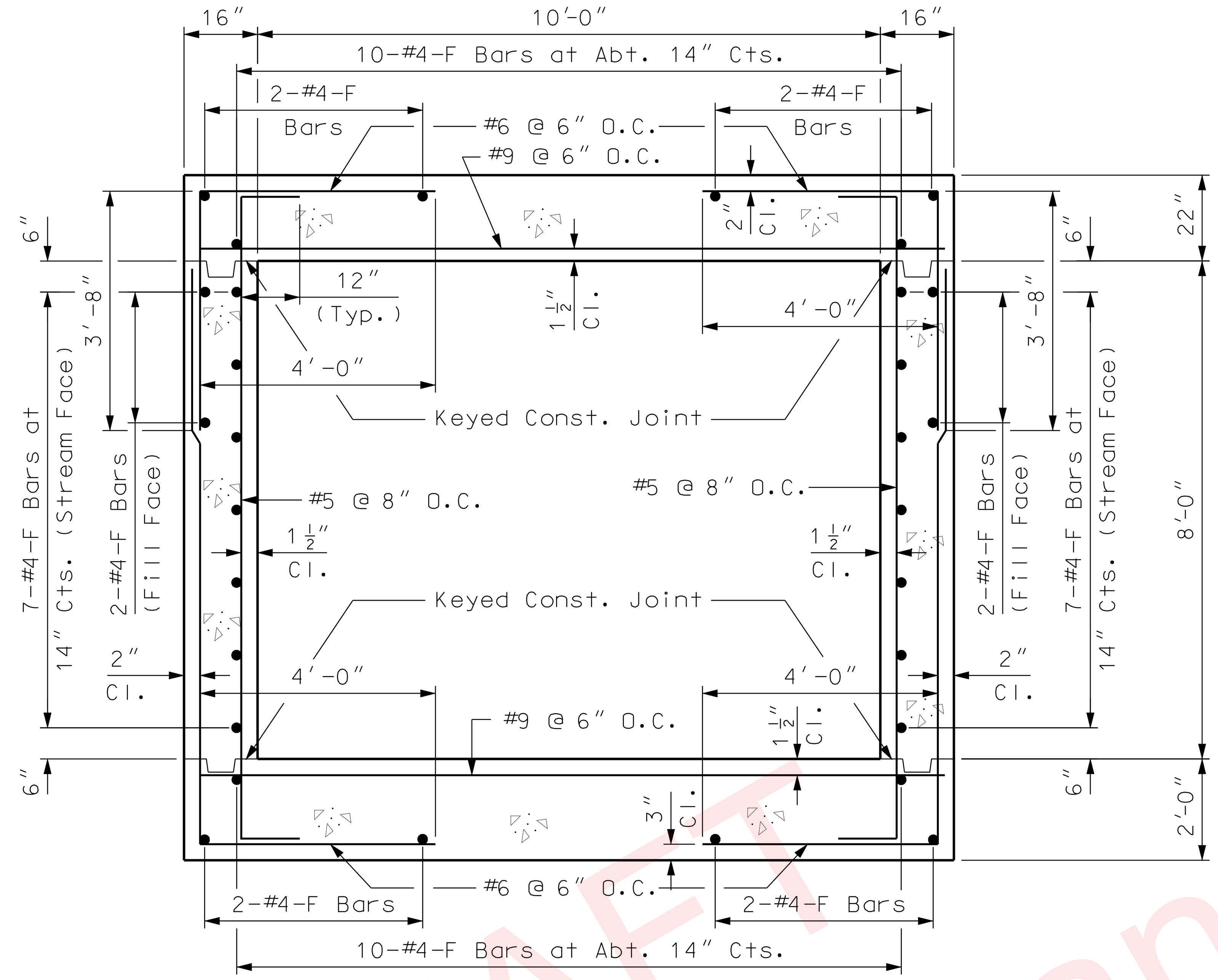
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

- ☐ Precast Box used
- ☐ Cast-in-Place Box used



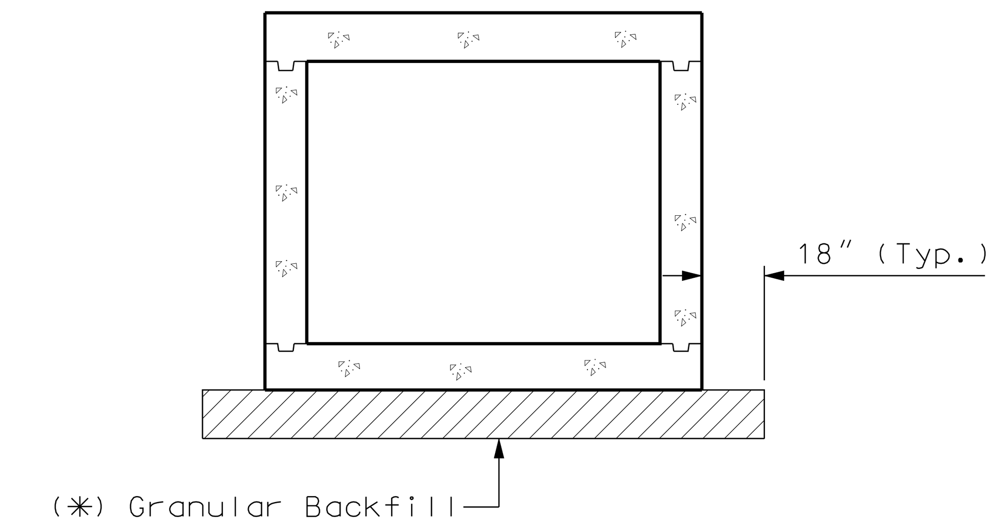
10' x 8' BOX CULVERT SECTION
SECTIONS B & I

Design Fill = 54.75'
Concrete = 2.59 cu. yard/ft.
Reinforcing Steel = 368 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

Note:

Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

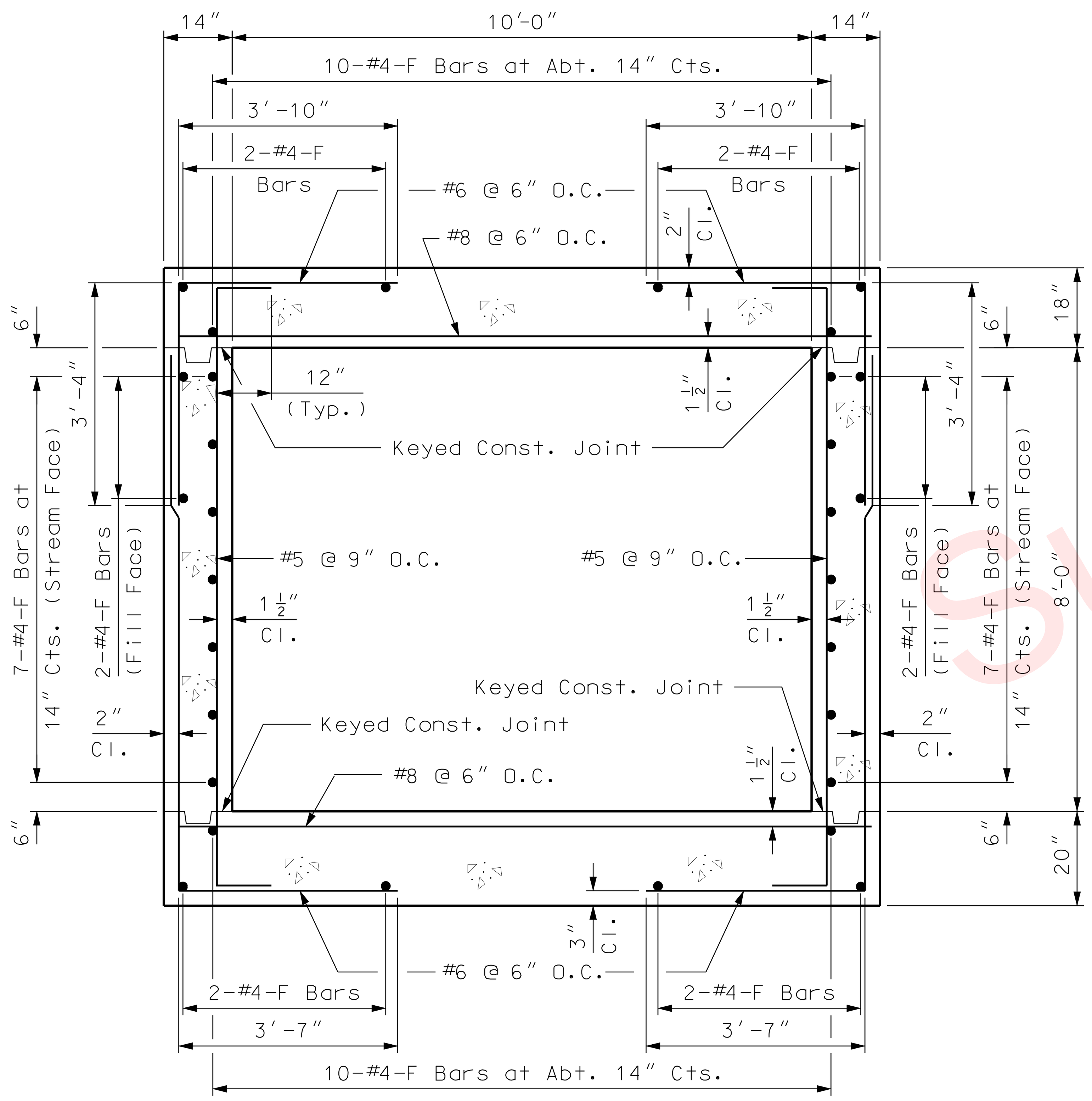
The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



SECTION THRU BOX
(Normal to ℄ Structure)

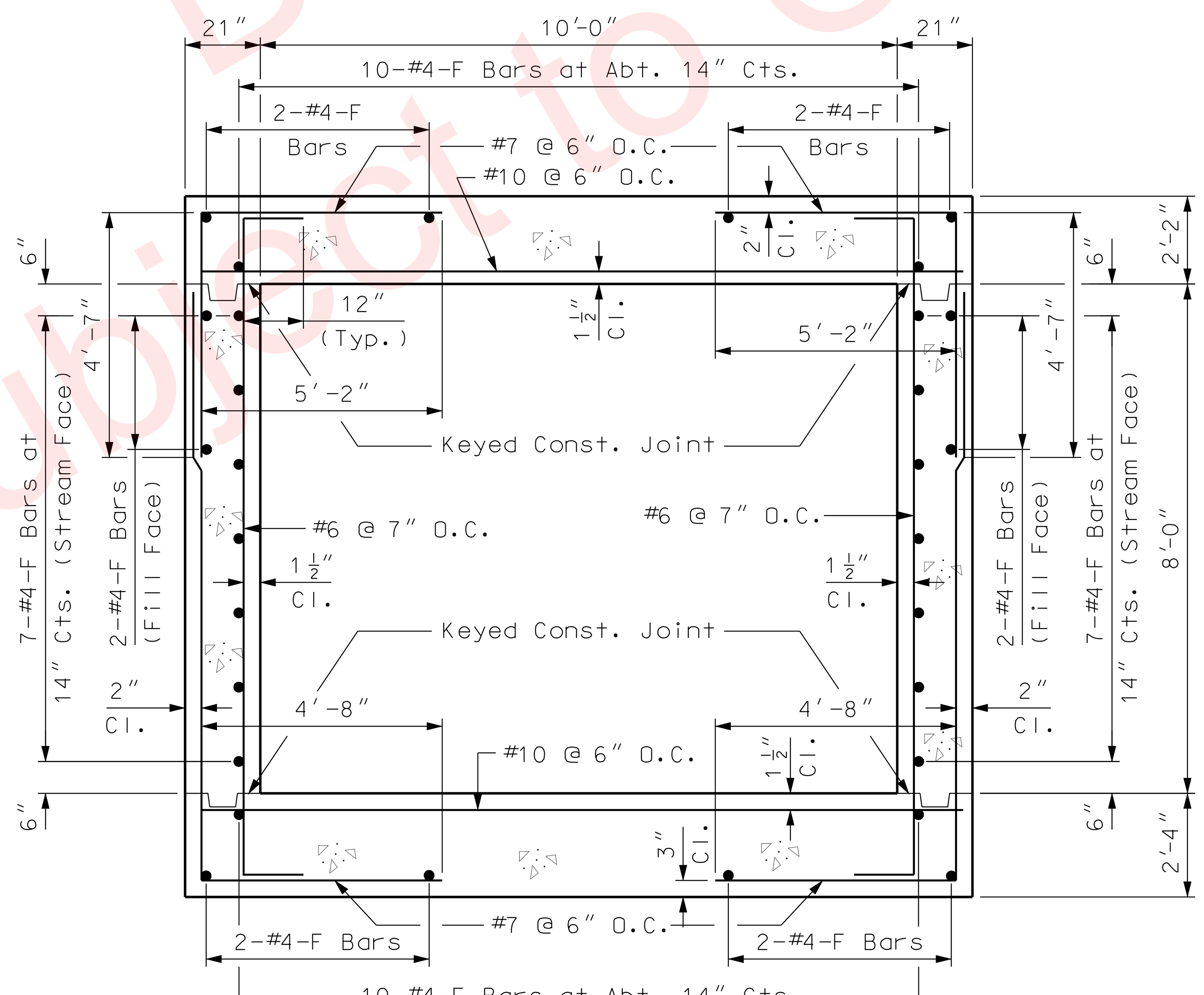
(✱) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.



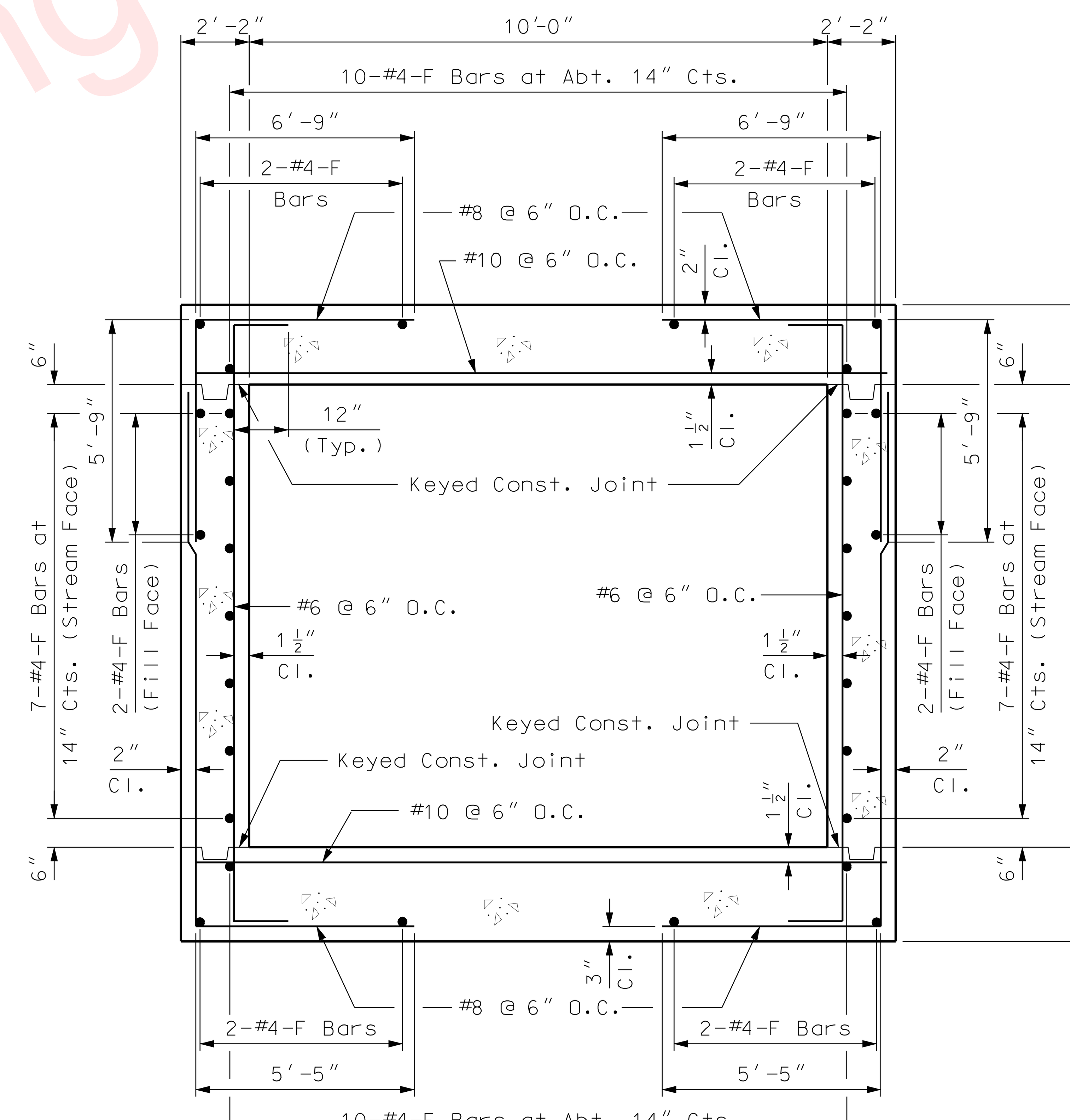
10' x 8' BOX CULVERT SECTION
SECTIONS A, J & K

Design Fill = 35.50'
Concrete = 2.14 cu. yard/ft.
Reinforcing Steel = 315 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



10' x 8' BOX CULVERT SECTION
SECTIONS C & H

Design Fill = 79.00'
Concrete = 3.29 cu. yard/ft.
Reinforcing Steel = 529 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



10' x 8' BOX CULVERT SECTION
SECTIONS D, E, F & G

Design Fill = 103.75'
Concrete = 4.03 cu. yard/ft.
Reinforcing Steel = 662 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

10' x 8' x 504' BOX CULVERT SECTION @ STA. 768+06.77 RTE. I-49

Note: This drawing is not to scale. Follow dimensions.

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 9 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 49
COUNTY	McDONALD
JOB NO.	J7P0601
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)

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102

Note:

Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equilavlent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

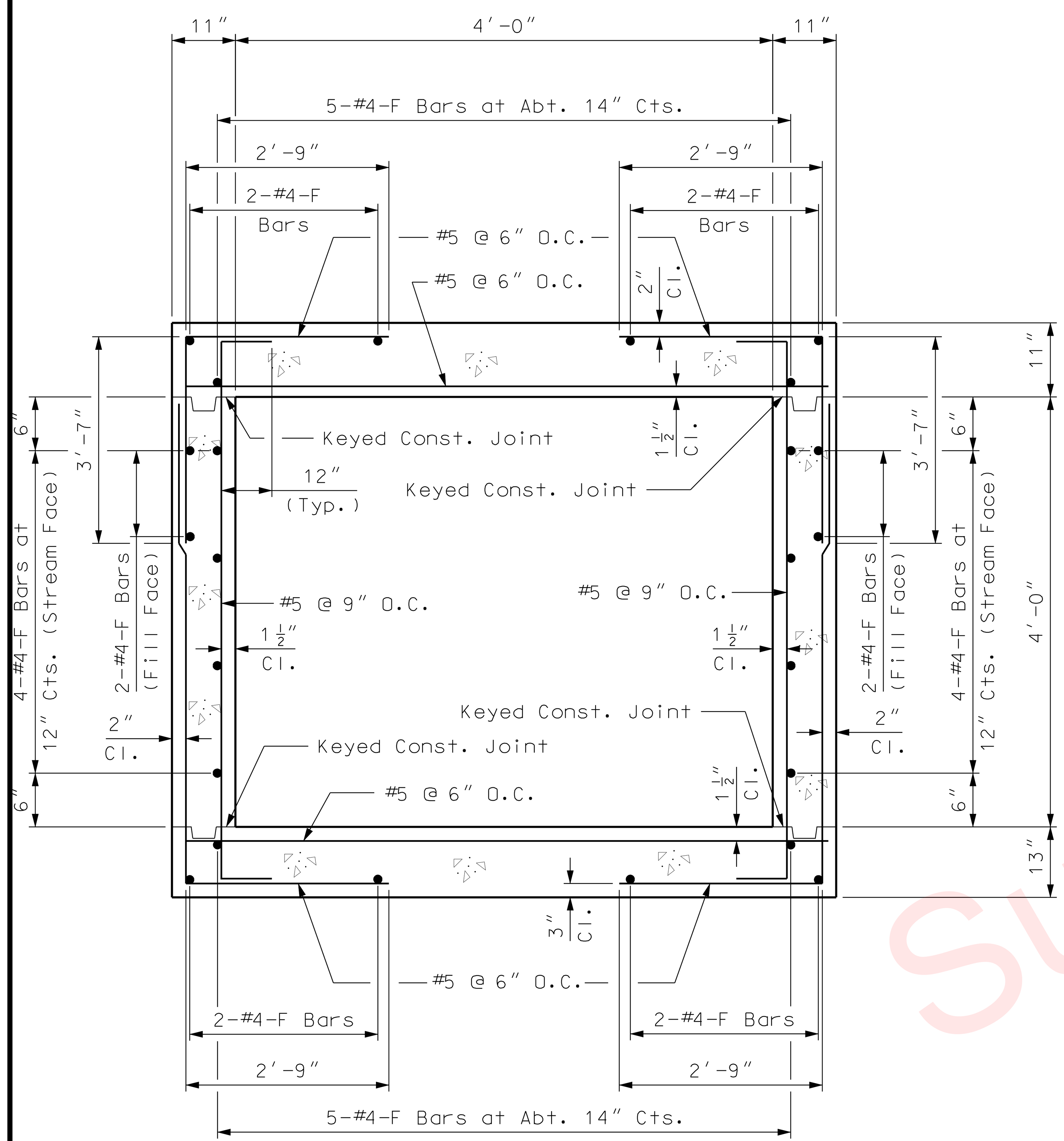
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

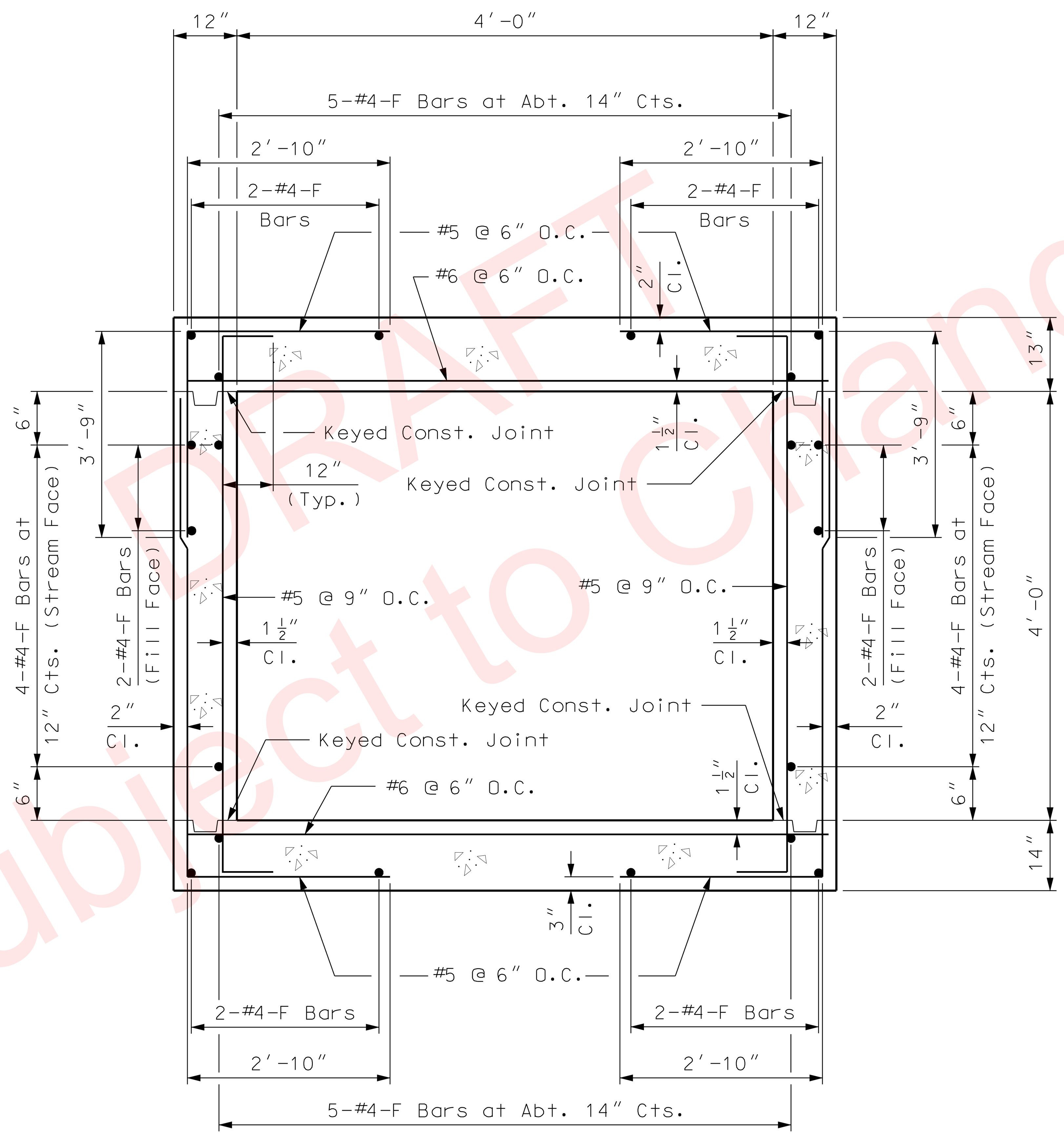
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

☐ Precast Box used
☐ Cast-in-Place Box used



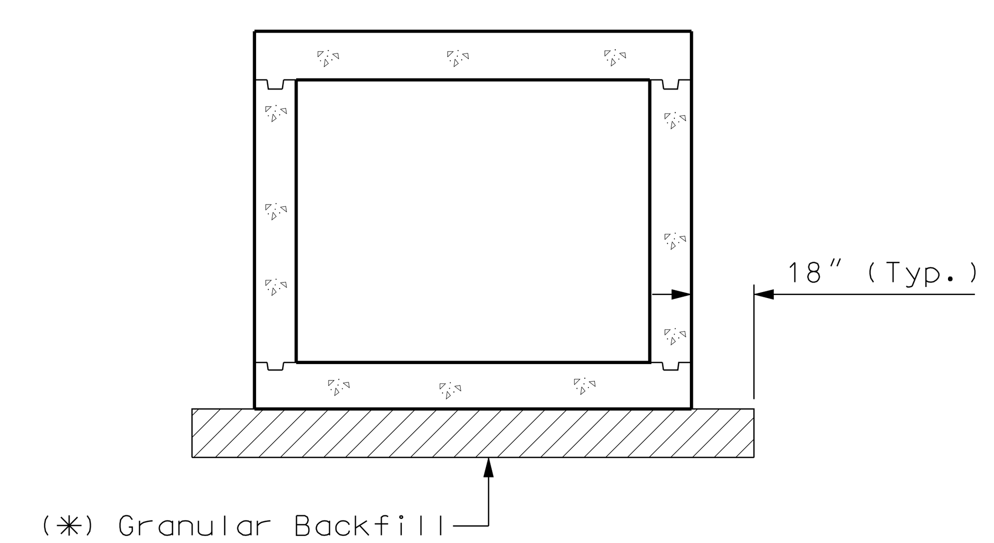
4' x 4' BOX CULVERT SECTION
SECTIONS A, B & C

Design Fill = 53.00'
Concrete = 0.70 cu. yard/ft.
Reinforcing Steel = 122 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



4' x 4' BOX CULVERT SECTION
SECTIONS D, E, F, G, & H

Design Fill = 86.25'
Concrete = 0.80 cu. yard/ft.
Reinforcing Steel = 135 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



SECTION THRU BOX
(Normal to ℄ Structure)

(✻) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

4' x 4' x 319' BOX CULVERT SECTION @ STA. 842+96.71 RTE. I-49

Note: This drawing is not to scale. Follow dimensions.

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 10 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 50
COUNTY	McDONALD
JOB NO.	J7P0601
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)

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102

TAI

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equivalent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

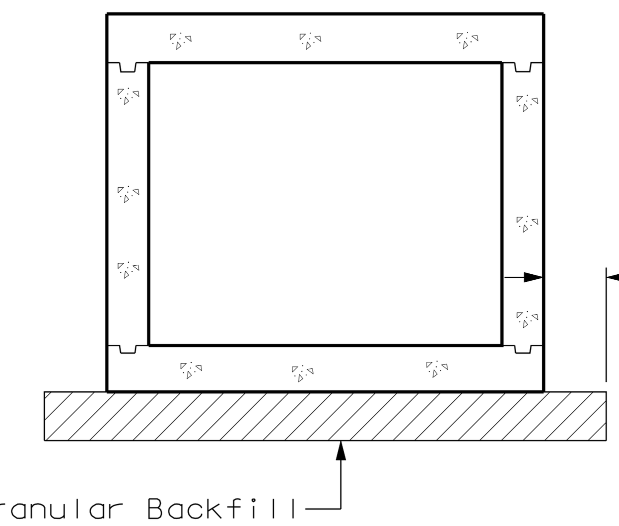
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

- ☐ Precast Box used
- ☐ Cast-in-Place Box used



SECTION THRU BOX
(Normal to ℄ Structure)

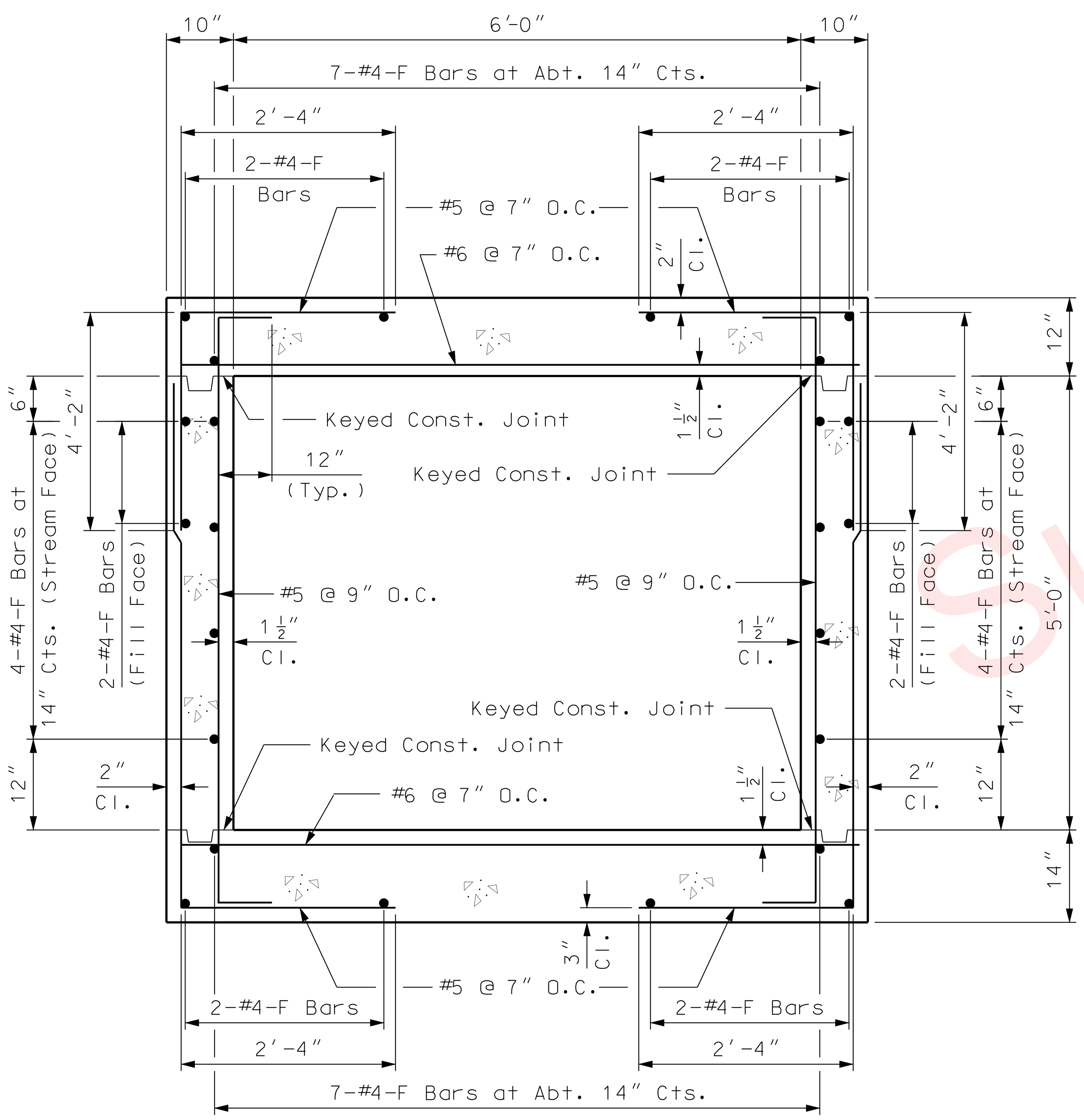
(✻) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Note:

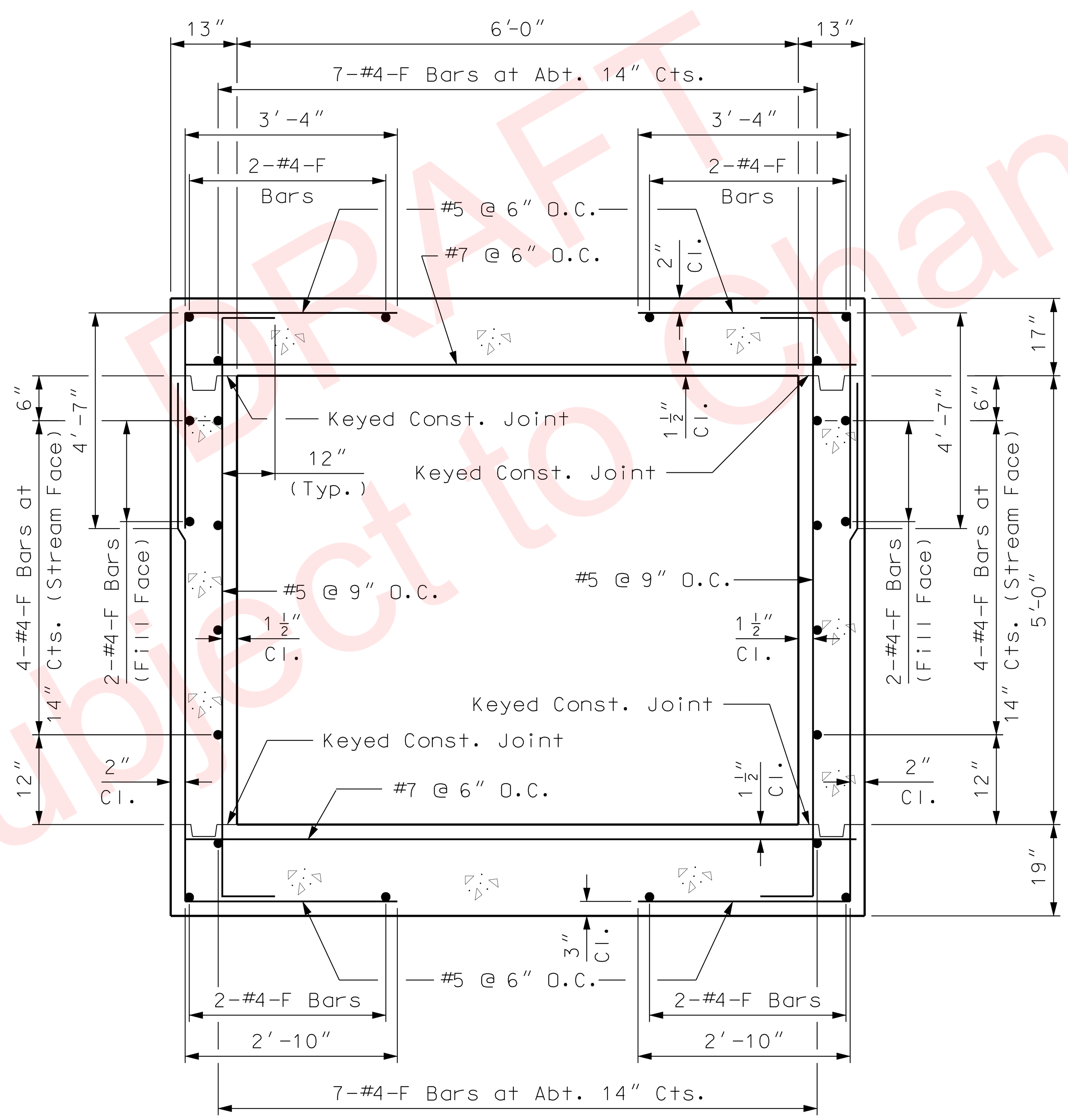
Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



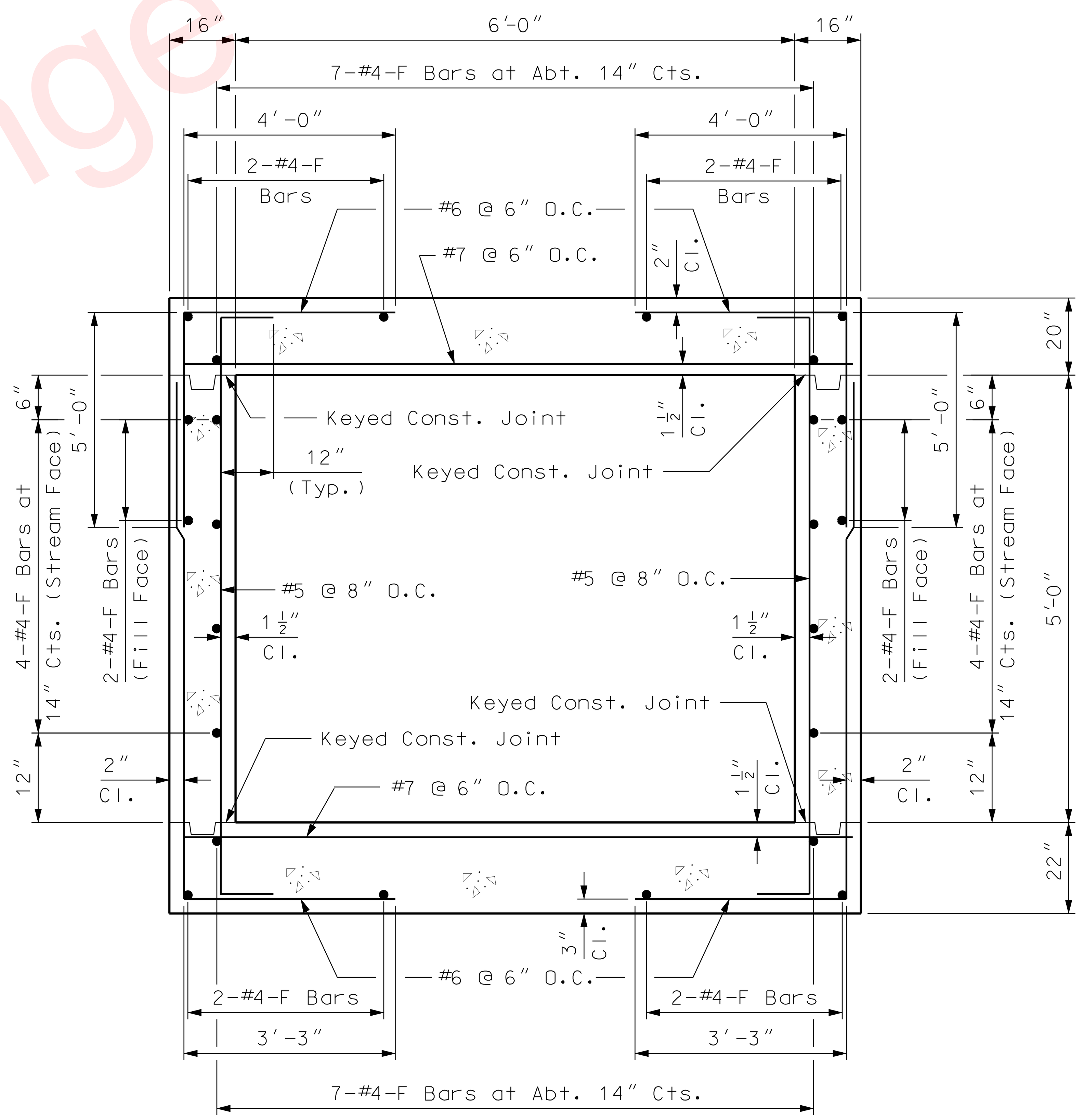
6' x 5' BOX CULVERT SECTION
SECTIONS A, J, & K

Design Fill = 30.25'
Concrete = 0.92 cu. yard/ft.
Reinforcing Steel = 137 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



6' x 5' BOX CULVERT SECTION
SECTIONS B, C, H, & I

Design Fill = 68.25'
Concrete = 1.31 cu. yard/ft.
Reinforcing Steel = 184 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



6' x 5' BOX CULVERT SECTION
SECTIONS D, E, F, & G

Design Fill = 88.17'
Concrete = 1.62 cu. yard/ft.
Reinforcing Steel = 236 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

6' x 5' x 495' BOX CULVERT SECTION @ STA. 844+08.90 RTE. I-49

Note: This drawing is not to scale. Follow dimensions.

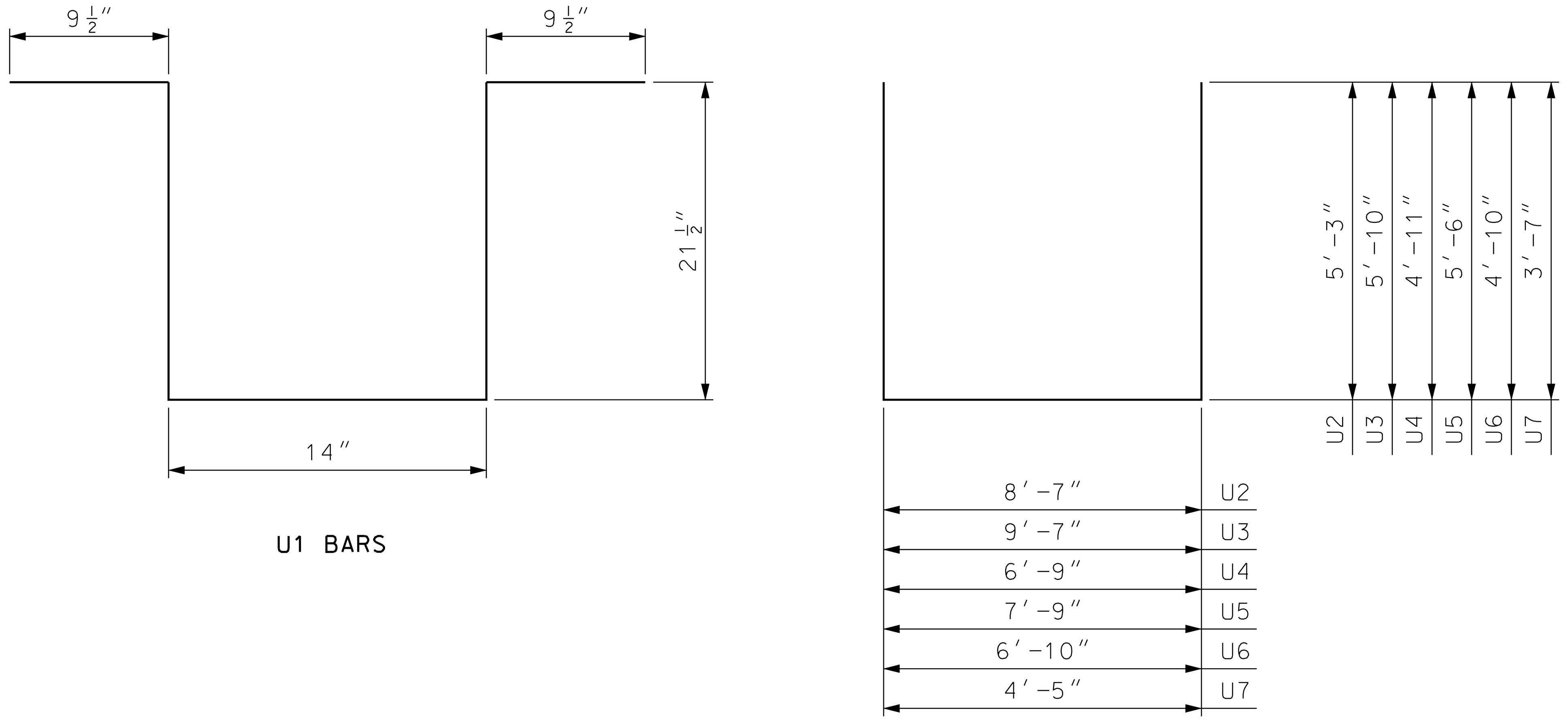
BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 11 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

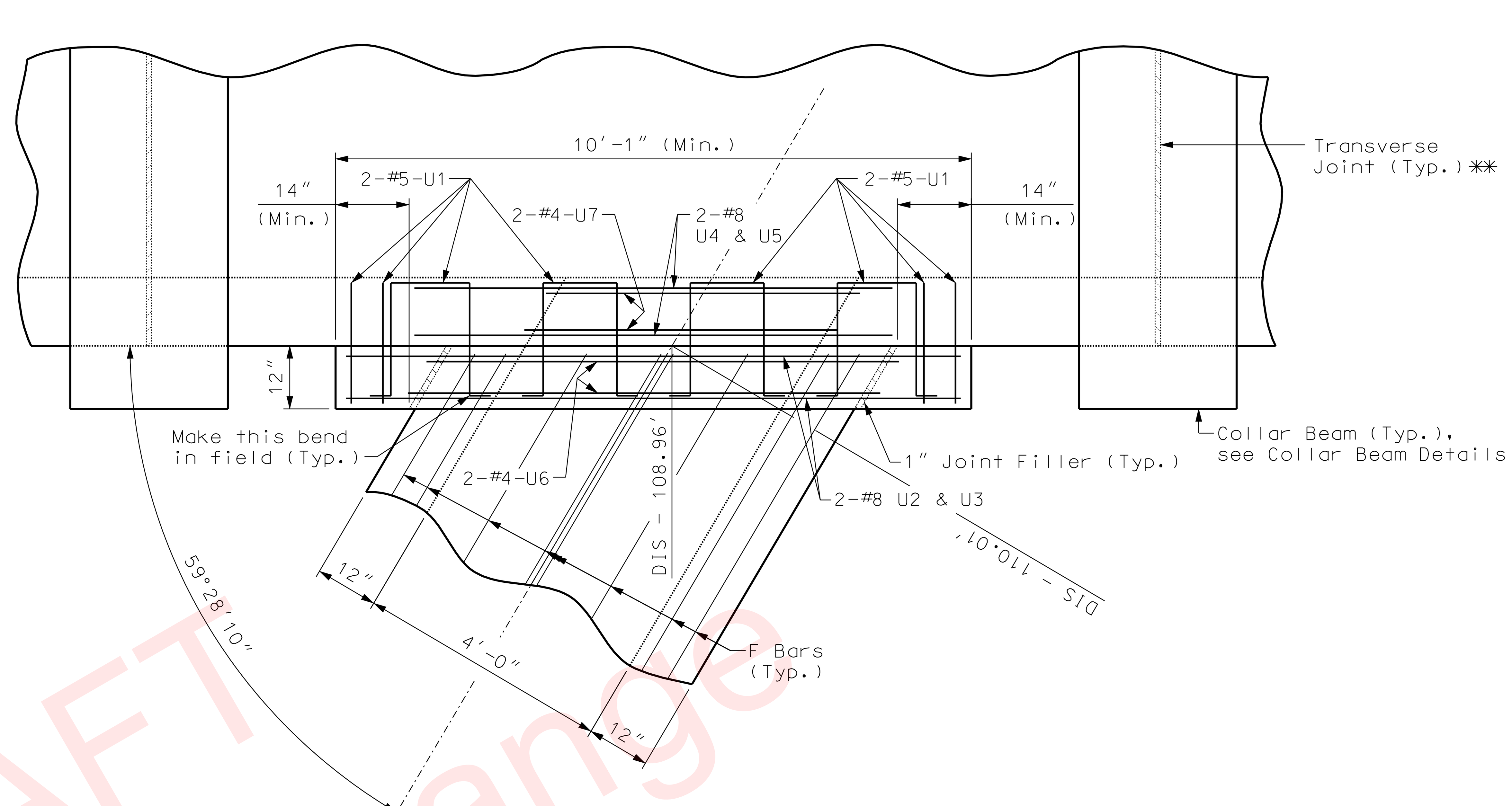
DATE 06-17-09
DATE PREPARED 05/08/2009
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 51
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
DESCRIPTION
DATE

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

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102



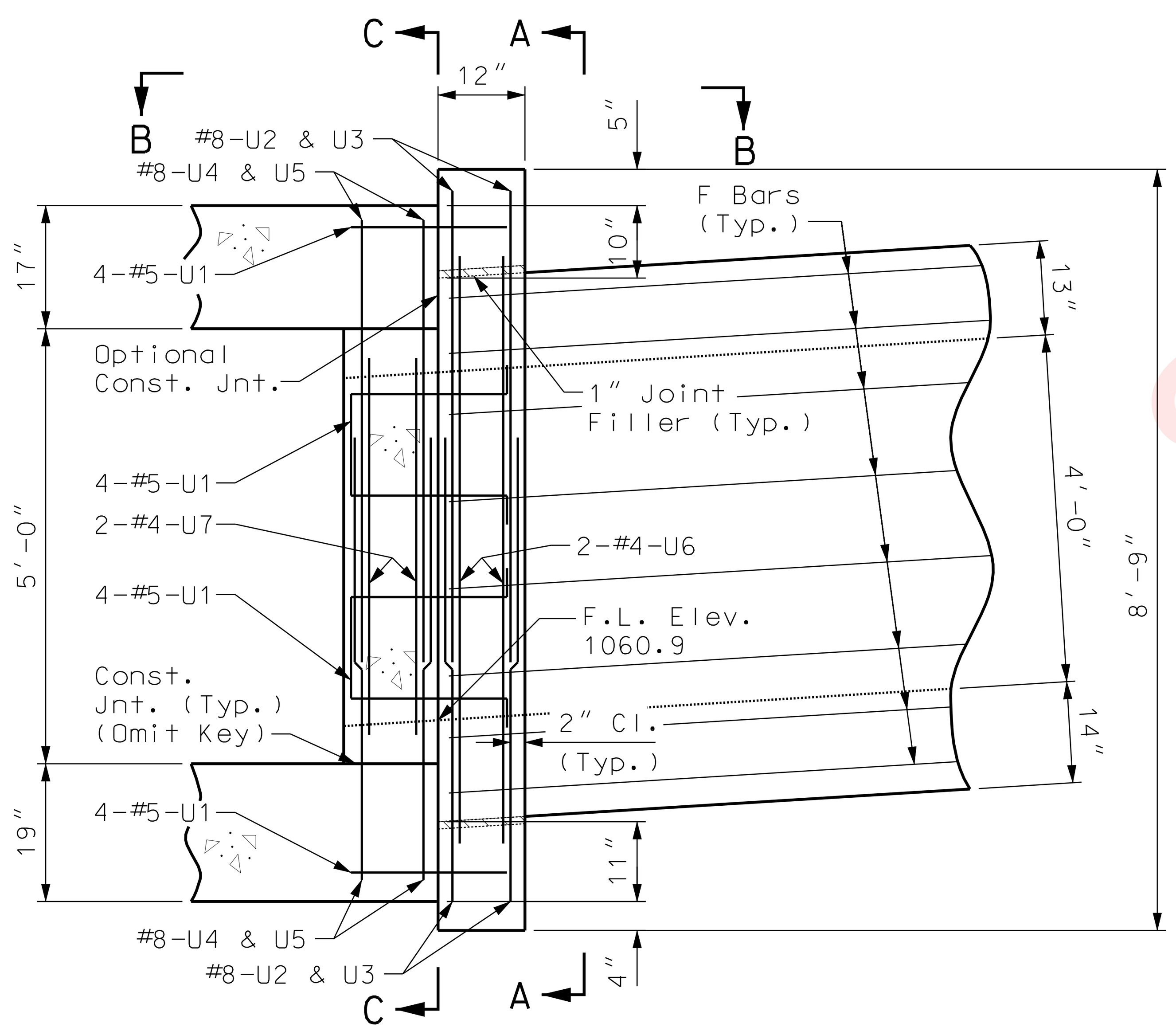
BENDING DIAGRAMS



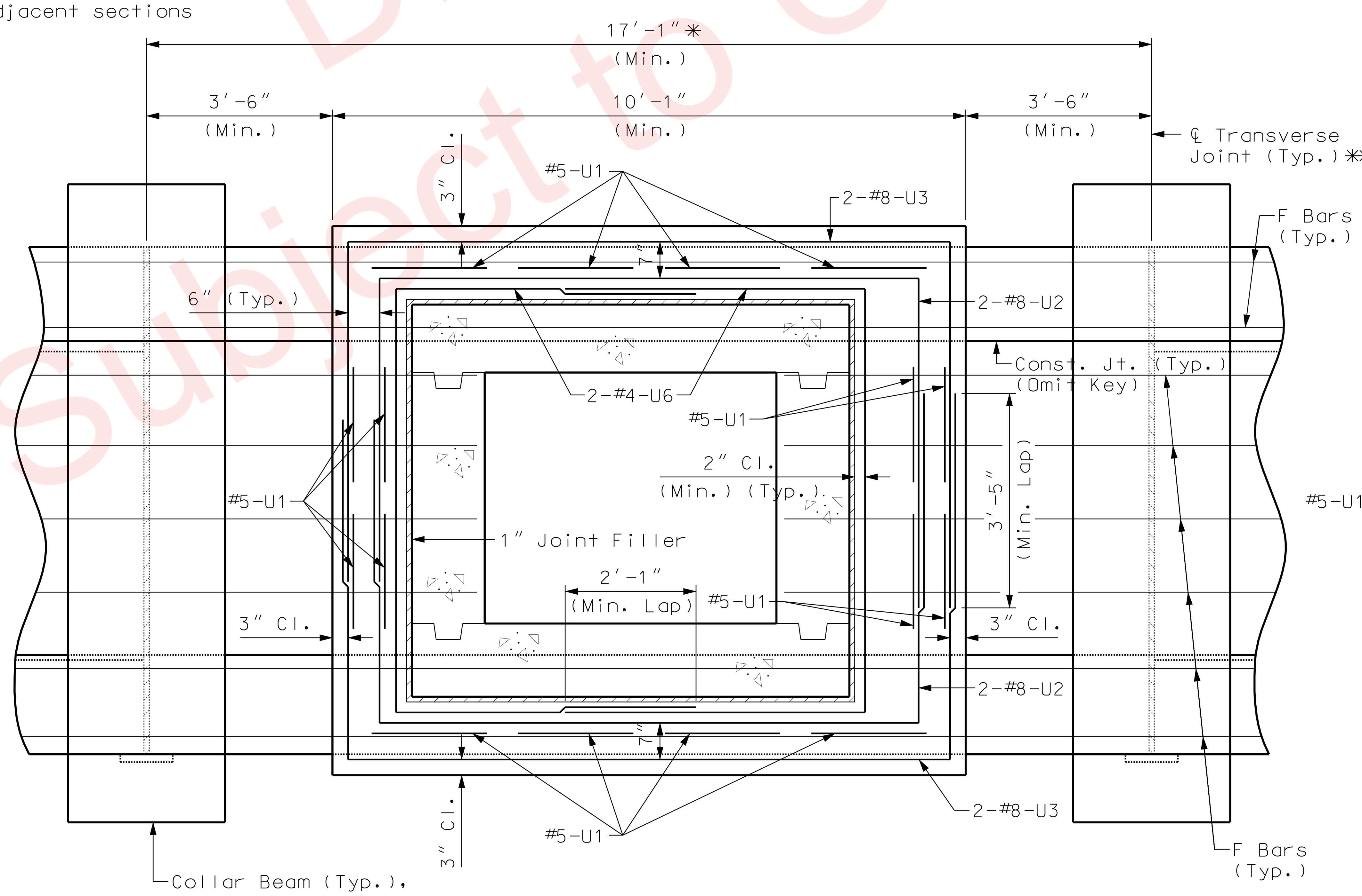
SECTION B-B

* The use of precast box section shall not be allowed within this limit. Use cast -in-place concrete only.

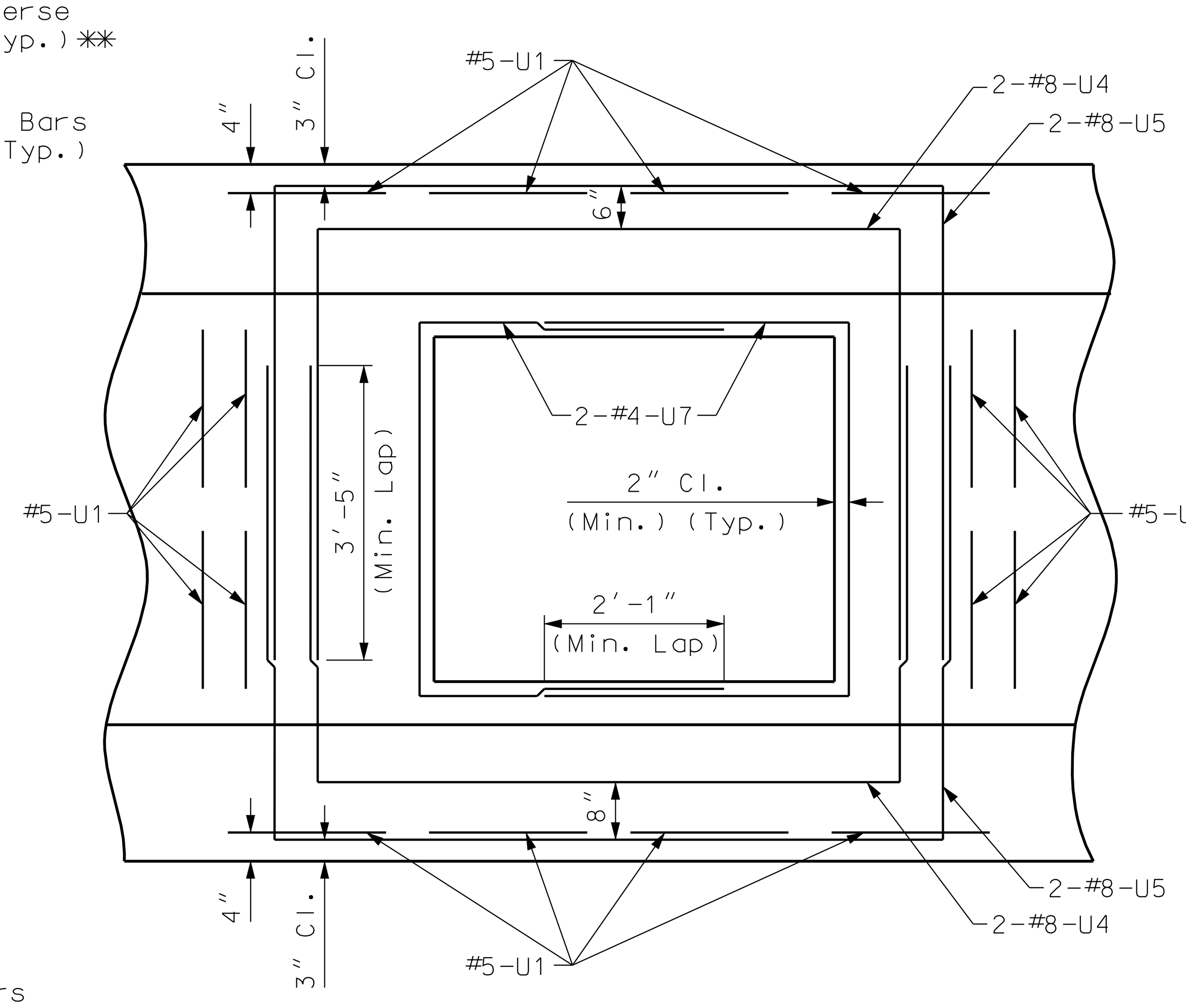
** This joint can be eliminated if adjacent sections are cast-in-place concrete.



DETAIL OF INTERSECTION



SECTION A-A



SECTION C-C

Note:

Cut or bend rebars in box culvert when necessary to miss opening for 4'-0" x 4'-0" intersecting culvert.

For regular culvert reinforcing, see Sheet No. 51.

6' x 5' x 495' BOX CULVERT SECTION @ STA. 844+08.90 RTE. I-49

QUANTITIES FOR ATTACHMENT

Concrete = 1.57 cu. yard
Reinforcing Steel = 989 lbs.

Note: This drawing is not to scale. Follow dimensions.

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 12 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 52
COUNTY	McDONALD
JOB NO.	J7P0601
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

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102
TAI

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equivalent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

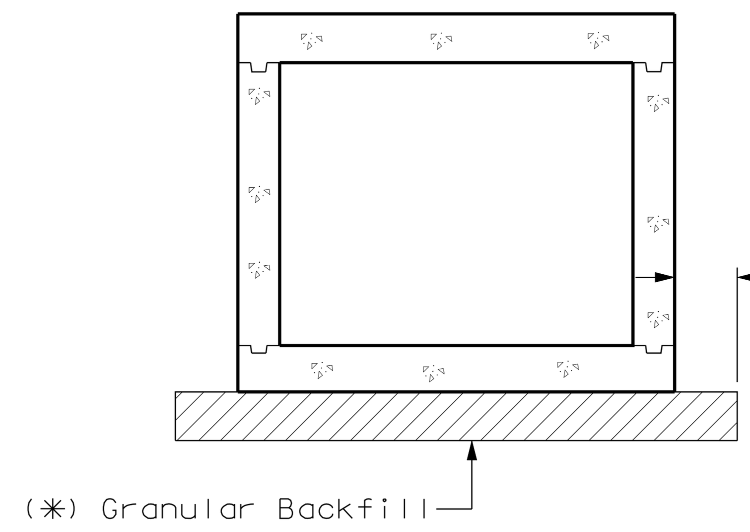
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

☐ Precast Box used
☐ Cast-in-Place Box used



SECTION THRU BOX
(Normal to ℄ Structure)

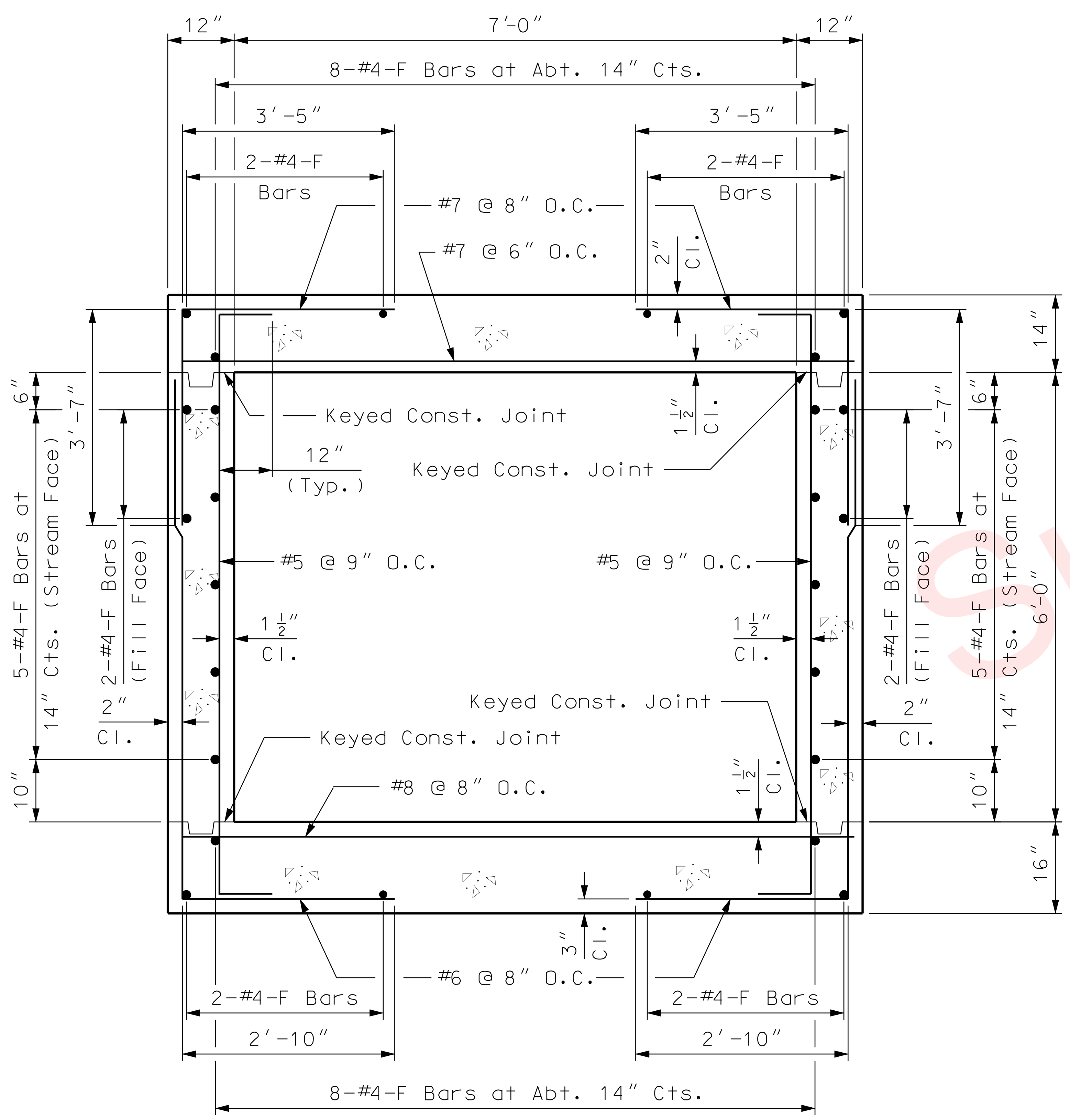
(✱) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Note:

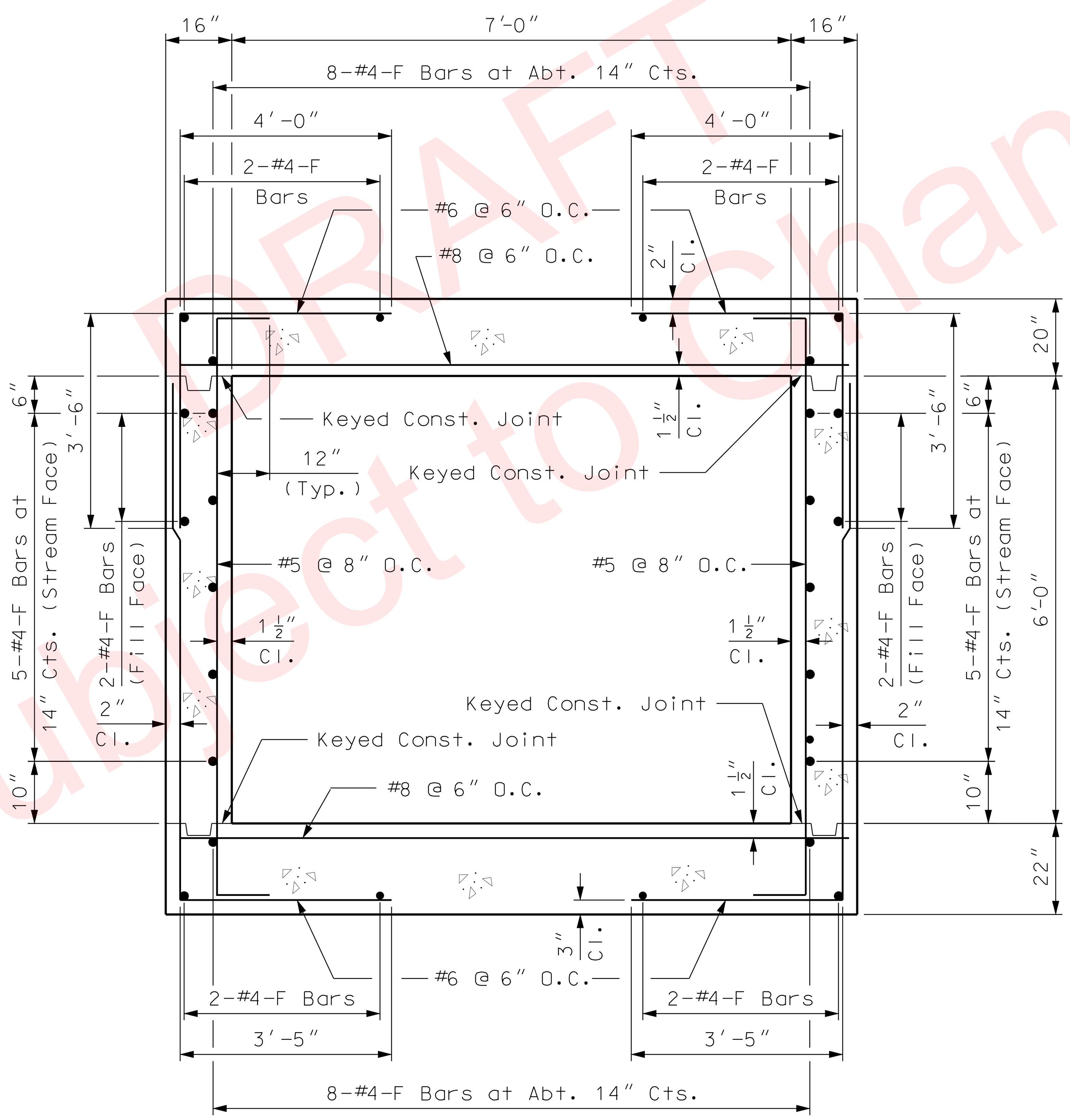
Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



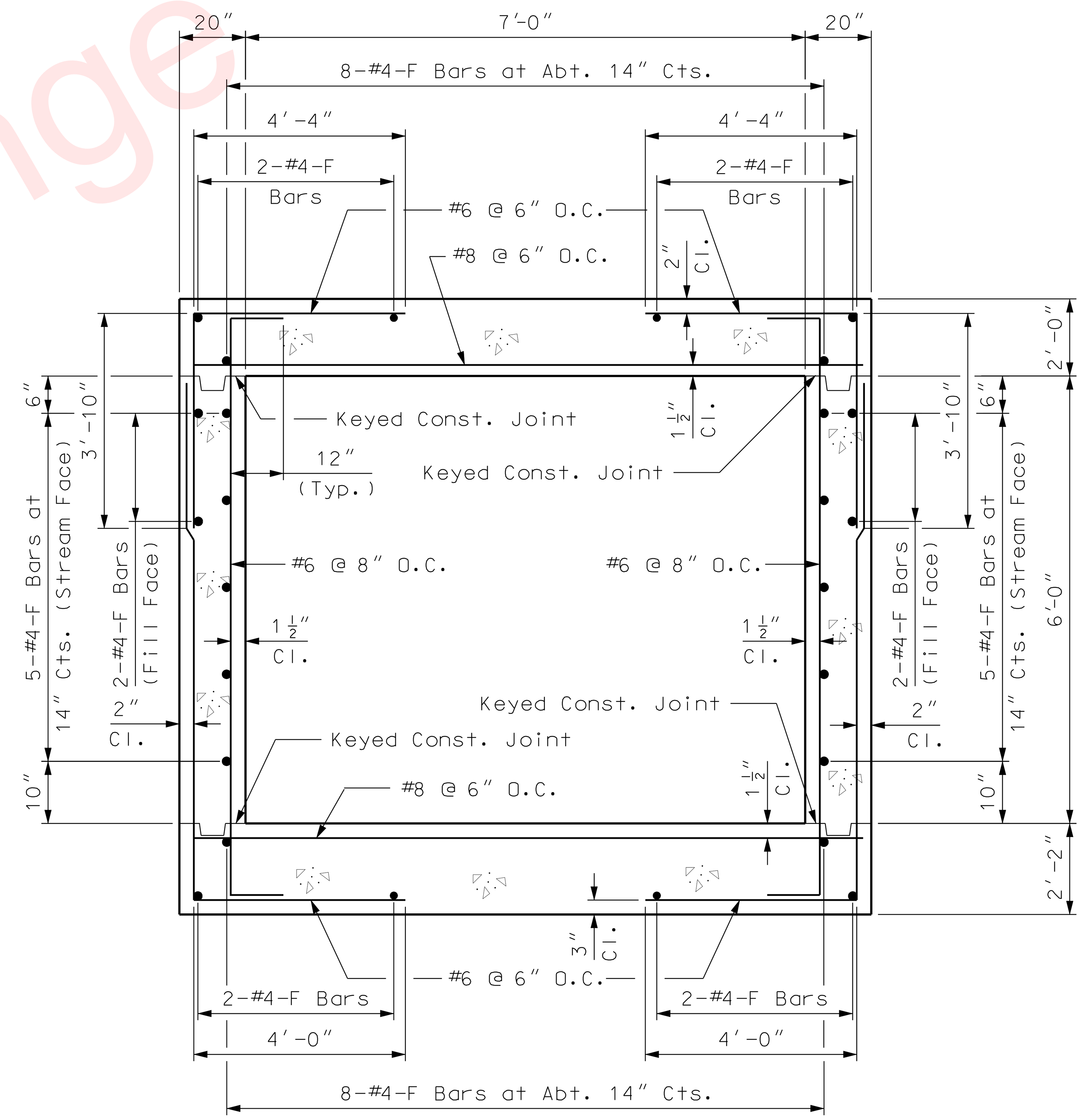
7' x 6' BOX CULVERT SECTION
SECTIONS A, B, C, R, S & T

Design Fill = 41.00'
Concrete = 1.28 cu. yard/ft.
Reinforcing Steel = 211 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



7' x 6' BOX CULVERT SECTION
SECTIONS D, E, O, P & Q

Design Fill = 76.50'
Concrete = 1.85 cu. yard/ft.
Reinforcing Steel = 270 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



7' x 6' BOX CULVERT SECTION
SECTIONS F, G, H, I, J, K, L, M & N

Design Fill = 97.66'
Concrete = 2.34 cu. yard/ft.
Reinforcing Steel = 305 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

7' x 6' x 909' BOX CULVERT SECTION @ STA. 887+10.93 RTE. I-49

Note: This drawing is not to scale. Follow dimensions.

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 53
COUNTY	McDONALD
JOB NO.	J7P0601
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)

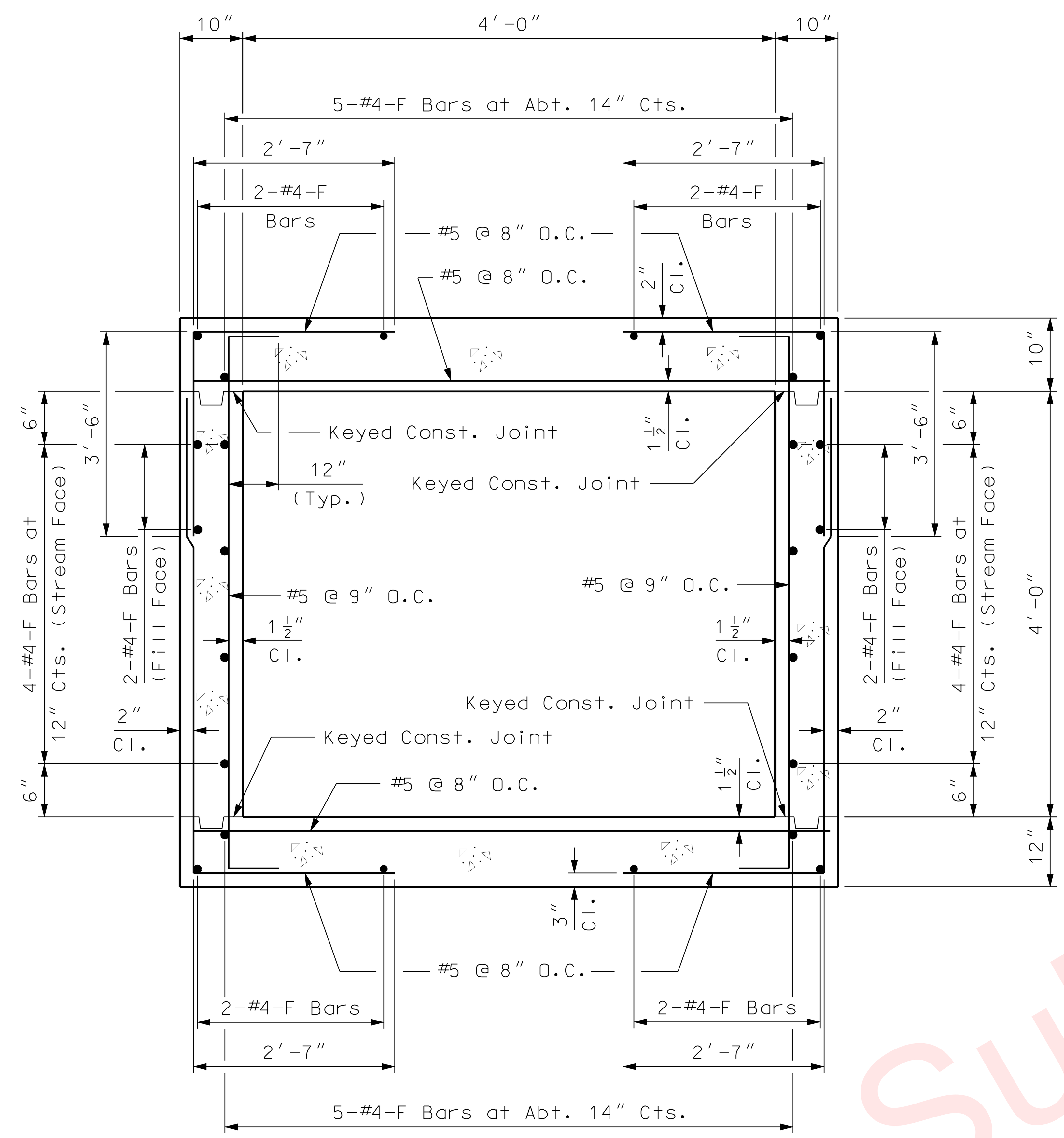
TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102
TAI

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 13 OF 16

Note:

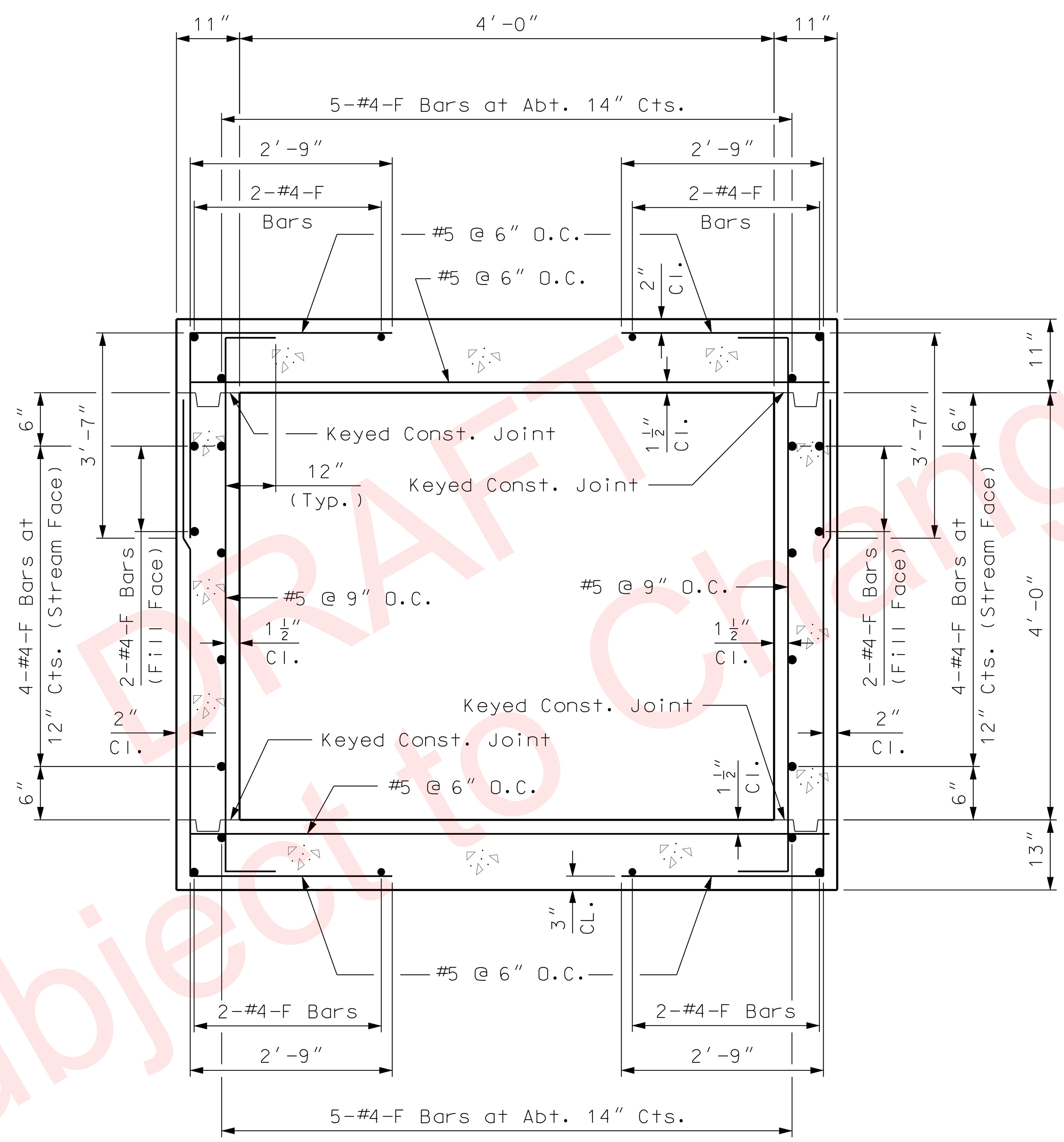
Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



4′ x 4′ BOX CULVERT SECTION
SECTIONS A, B, H, I, J & K

Design Fill = 35.00′
Concrete = 0.63 cu. yard/ft.
Reinforcing Steel = 99 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



4′ x 4′ BOX CULVERT SECTION
SECTIONS C, D, E, F & G

Design Fill = 57.25′
Concrete = 0.70 cu. yard/ft.
Reinforcing Steel = 122 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equilavlent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f′c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2″, unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

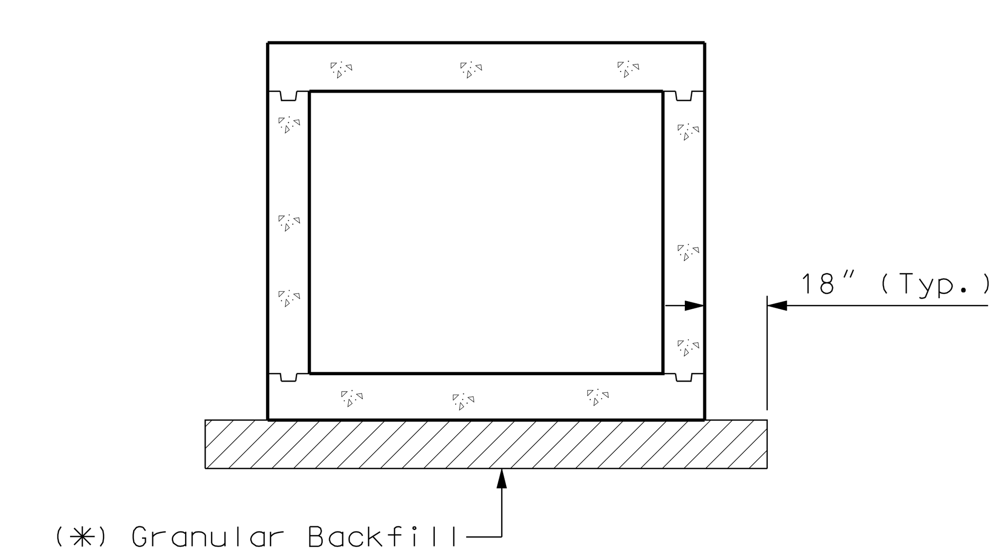
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3′-2″. Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

- ☐ Precast Box used
- ☐ Cast-in-Place Box used



SECTION THRU BOX
(Normal to ℄ Structure)

(✻) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

DRAFT Subject to Change

4′ x 4′ x 473′ BOX CULVERT SECTION @ STA. 899+93.87 RTE. I-49

Note: This drawing is not to scale. Follow dimensions.

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 14 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE	
06-17-09	
DATE PREPARED	
05/08/2009	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 54
COUNTY McDONALD	
JOB NO. J7P0601	
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

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102
TAI

GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition and Interims thru 2006
Load Factor Design

Design Loading:
HS20-44 Modified
Earth 120 #/Cu. Ft.
Equivalent Fluid Pressure 30#/Cu. Ft. (Min.) - 60#/Cu. Ft. (Max.)

Design Unit Stresses:
Class B-1 Concrete (Box Culvert) f'c = 4,000 psi
Reinforcing Steel (Grade 60) fy = 60,000 psi

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.

Miscellaneous:
For headwall cross sections, details of transverse joint and keyed construction joints, and other details not shown, see Missouri Standard Plans Drawing.

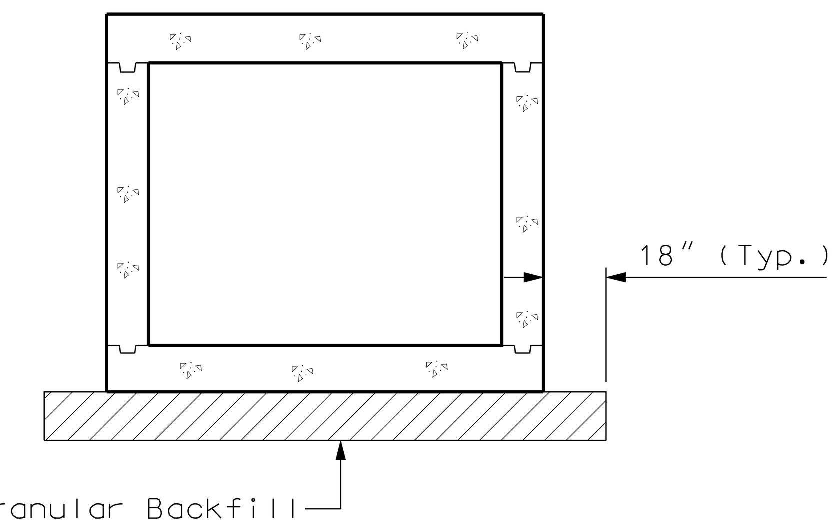
Contractor shall verify all dimensions in field before ordering new material.

Precast Box Option:
When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans Drawing.

If precast option is used, collars shall be provided between all precast pieces.

The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

☐ Precast Box used
☐ Cast-in-Place Box used



SECTION THRU BOX
(Normal to ℄ Structure)

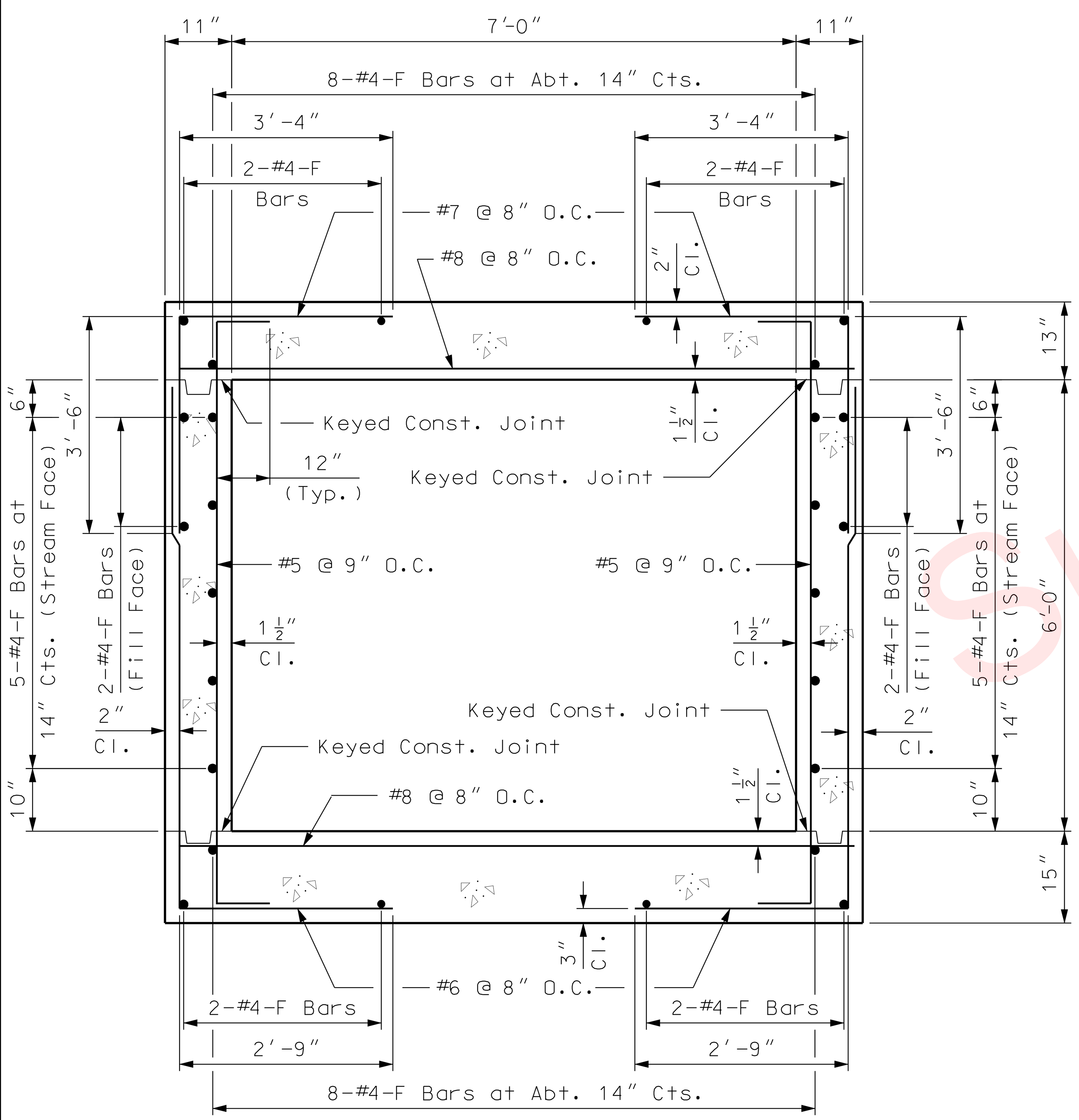
(✻) If unsuitable material is encountered, excvation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Note:

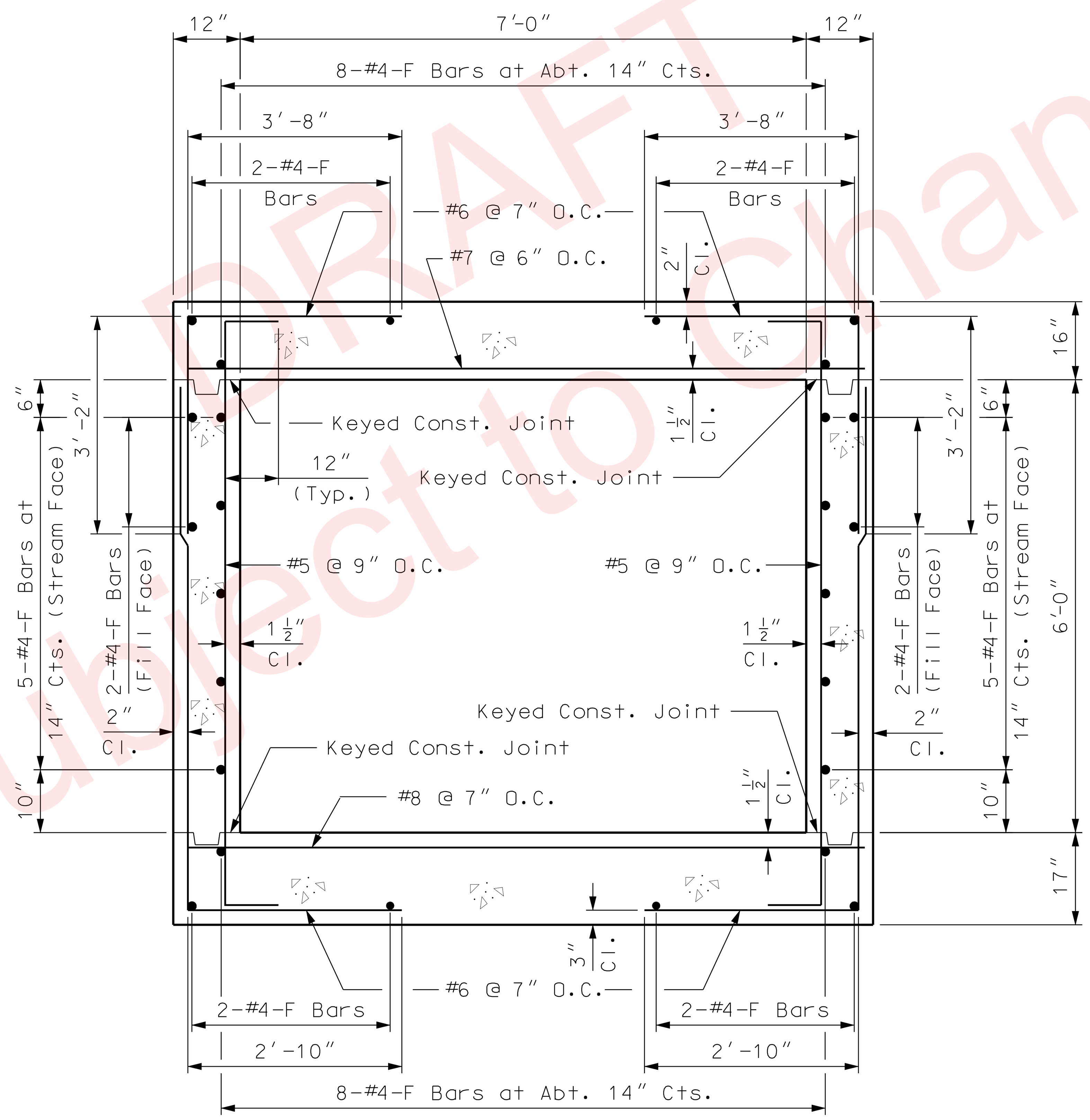
Collar Beams are required at all Transvers Joints. For details of Collar Beams, see Sheet No. 56.

The reinforcement size and the spacing in the wingwalls is the same as shown in the Box Culvert End Section. Refer to reinforcement details in Standard 703.14G for box culvert wingwall and head wall details.



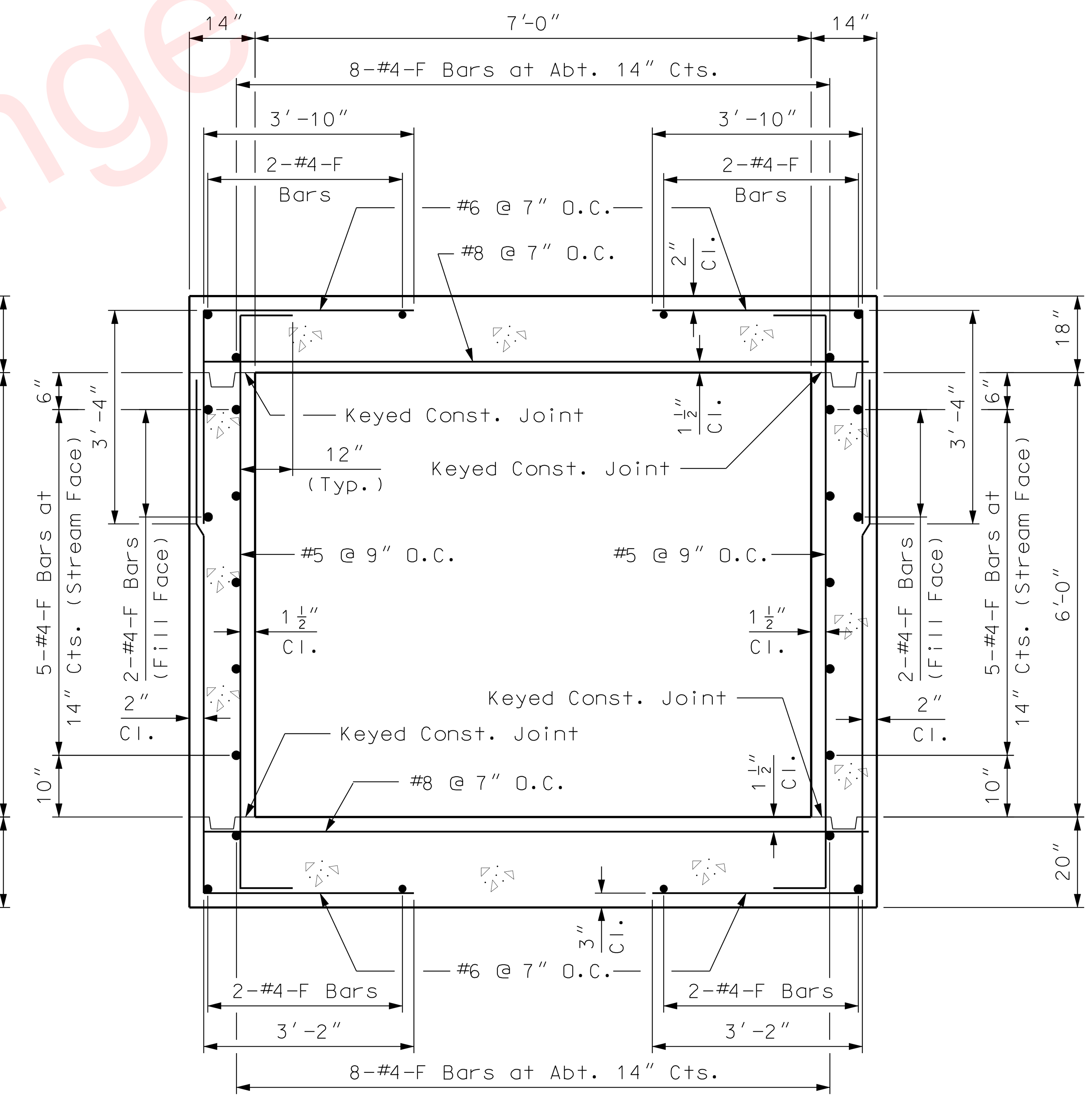
7' x 6' BOX CULVERT SECTION
SECTIONS A, B, I, J & K

Design Fill = 36.50'
Concrete = 1.17 cu. yard/ft.
Reinforcing Steel = 206 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



7' x 6' BOX CULVERT SECTION
SECTIONS C & H

Design Fill = 52.00'
Concrete = 1.36 cu. yard/ft.
Reinforcing Steel = 215.0 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



7' x 6' BOX CULVERT SECTION
SECTIONS D, E, F & G

Design Fill = 63.75'
Concrete = 1.61 cu. yard/ft.
Reinforcing Steel = 228 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.

7' x 6' x 484' BOX CULVERT SECTION
@ STA. 909+72.11 RTE. I-49

Note: This drawing is not to scale. Follow dimensions.

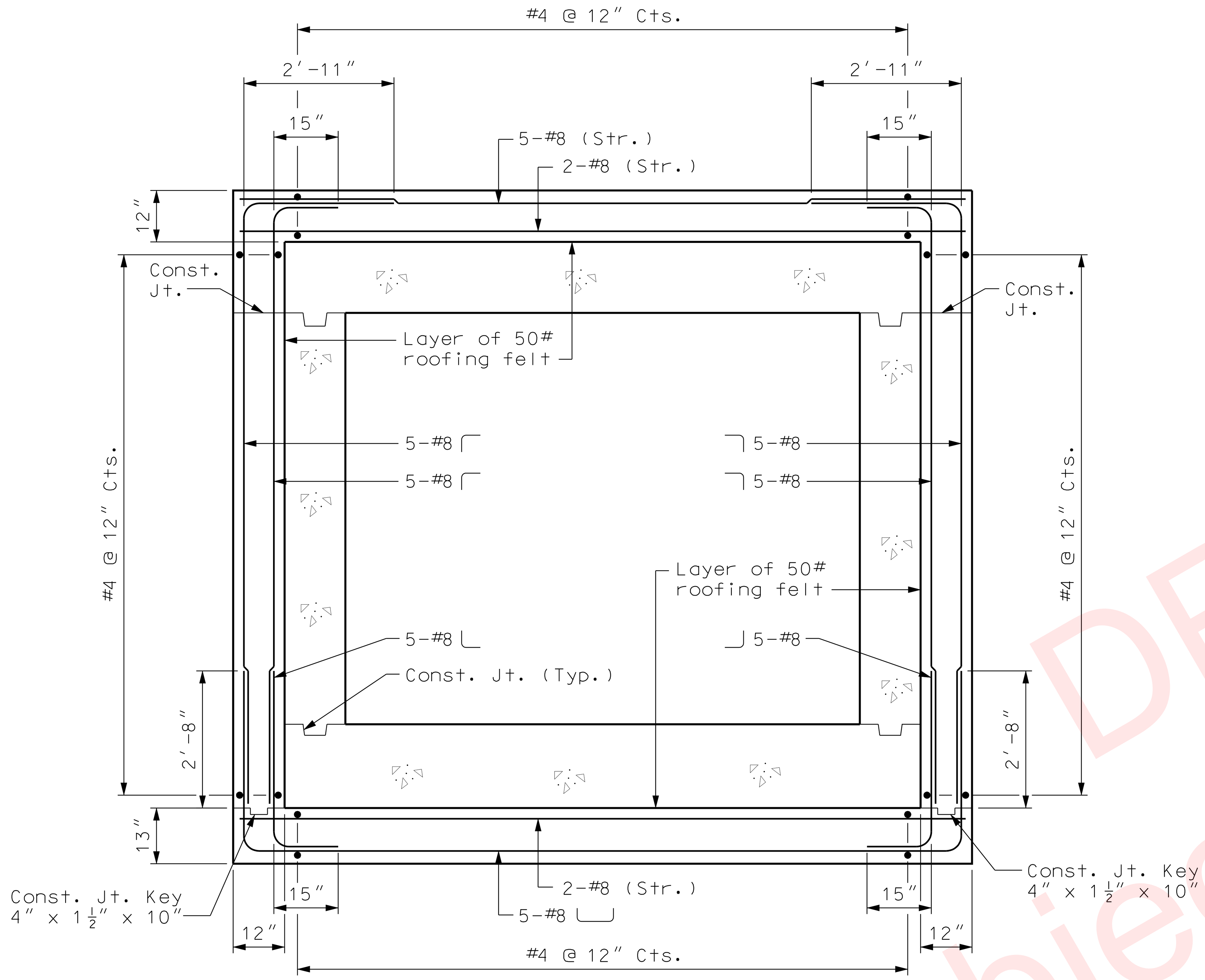
BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 15 OF 16

STATE OF MISSOURI DIPANKAR SENGUPTA NUMBER PE-2002000611 PROFESSIONAL ENGINEER	
DATE	06-17-09
DATE PREPARED	05/08/2009
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 55
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

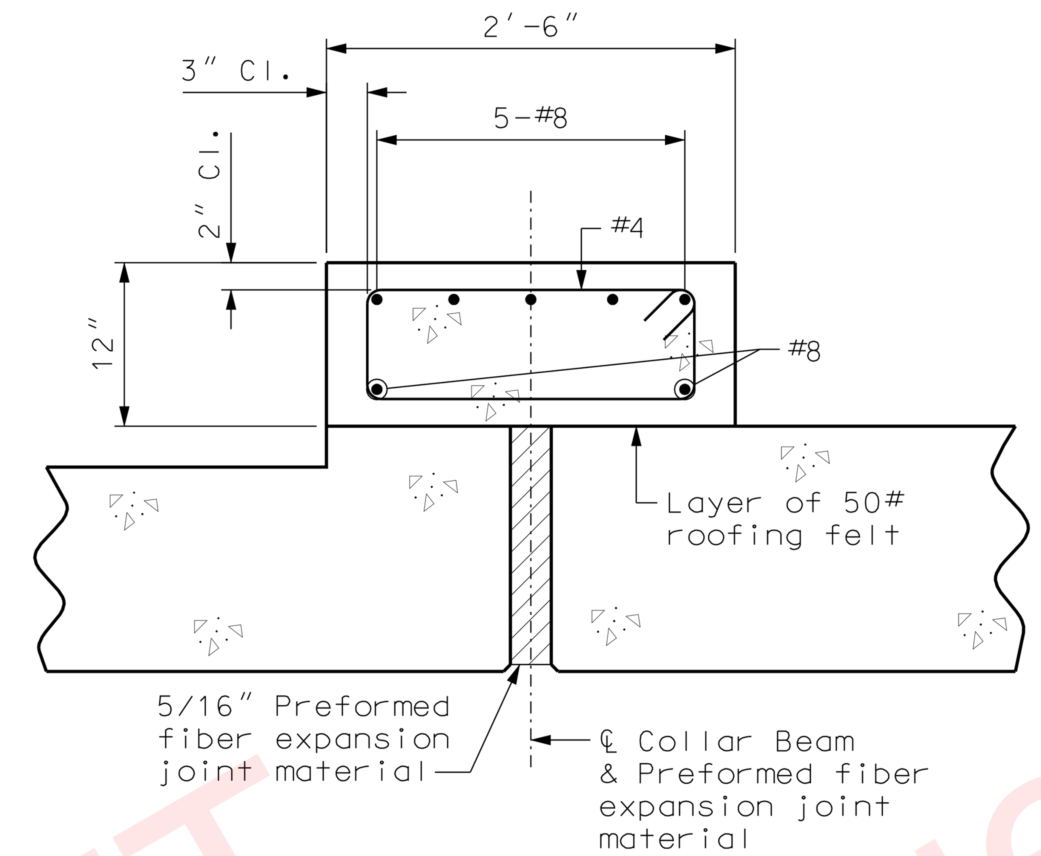
DESCRIPTION / DATE

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

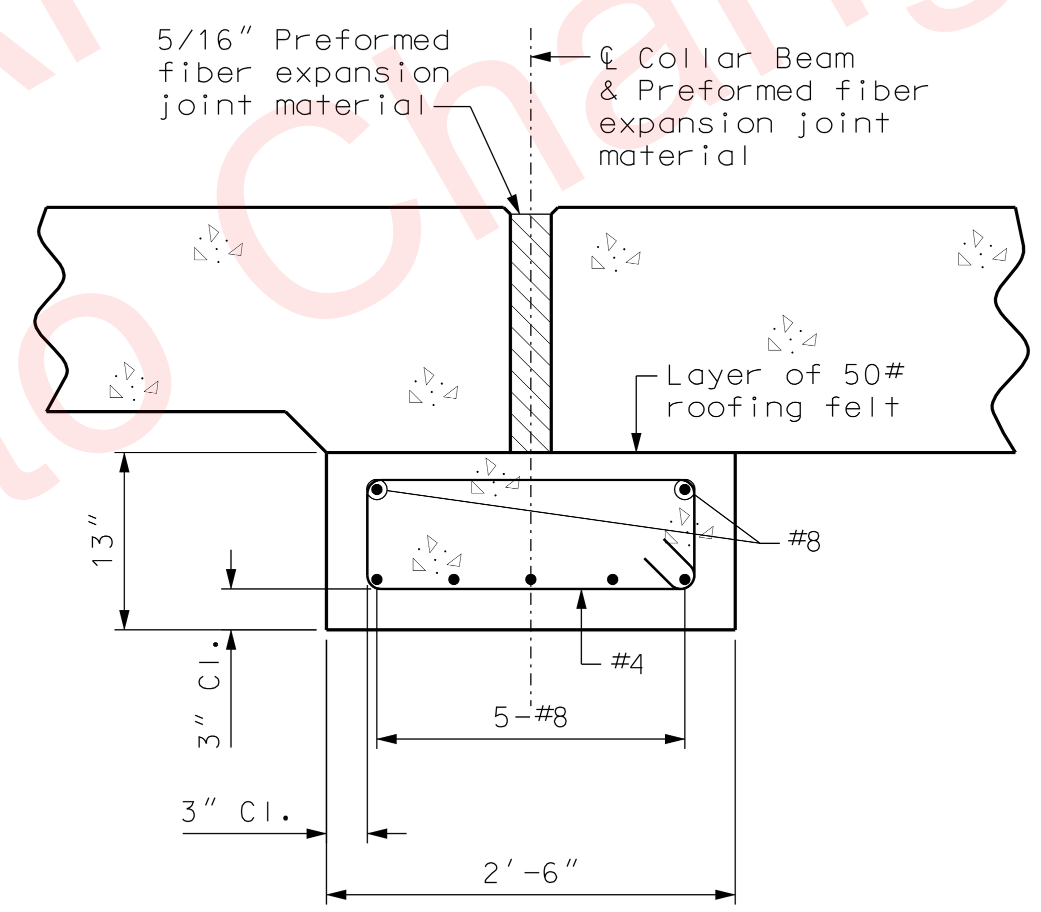
TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102
TAI



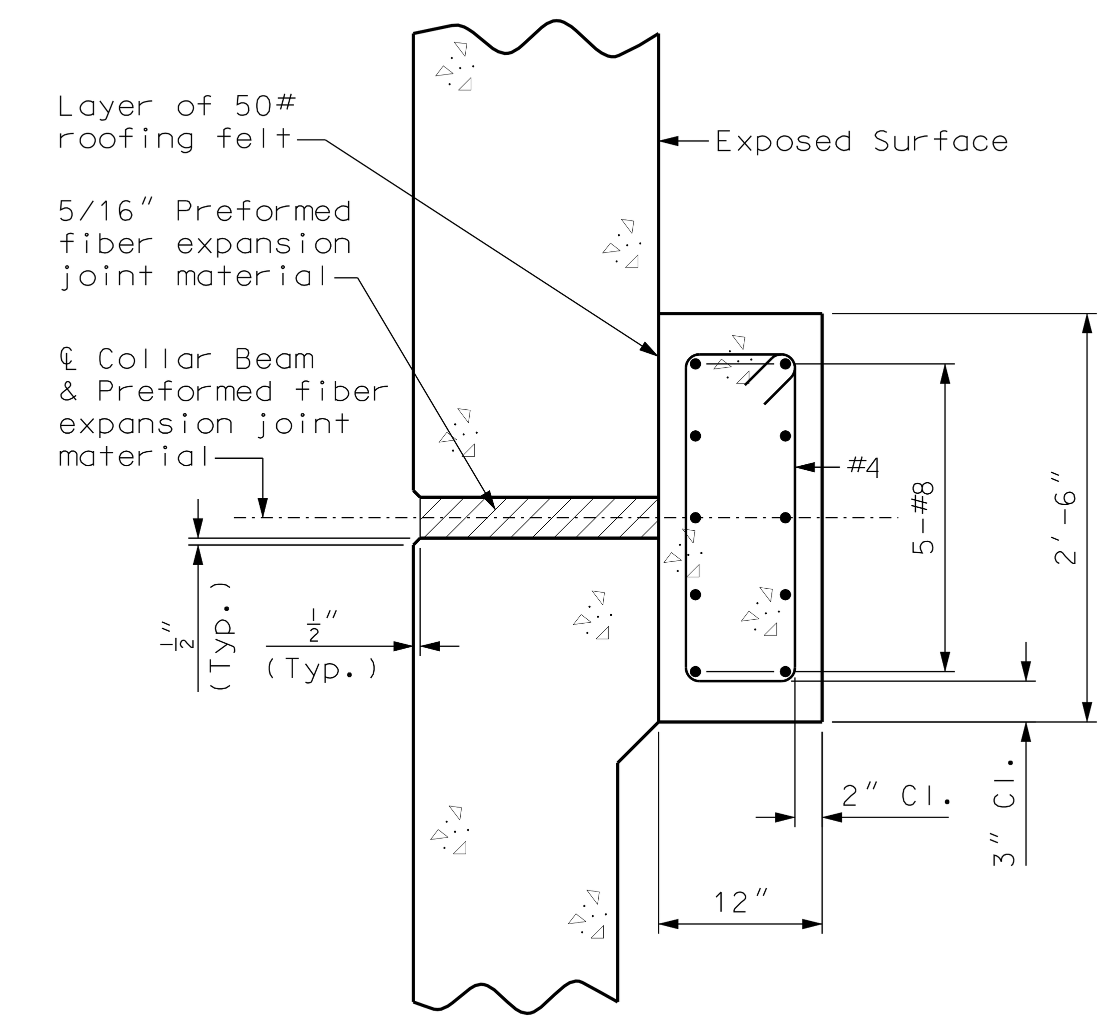
SECTION THRU BOX AT COLLAR



SECTION THRU TOP SLAB



SECTION THRU BOTTOM SLAB



SECTION THRU WALL

COLLAR BEAM QUANTITIES		
CULVERT @ STATION	CONCRETE (cu. yds.)	REINFORCING STEEL (lbs.)
743+58.95 NBL	34.09	14139
739+41.86 SBL	30.52	12069
768+06.77	53.43	18356
842+96.71	18.75	7694
844+08.90	35.12	13279
887+10.93	77.45	28255
899+93.87	25.97	10703
909+72.11	37.80	14026

Note:

If precast option is used, collars shall be provided between all precast pieces.

DETAILS OF COLLAR BEAM

Note: This drawing is not to scale. Follow dimensions.

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 16 OF 16

STATE OF MISSOURI
DIPANKAR SENGUPTA
NUMBER PE-2002000611
PROFESSIONAL ENGINEER

DATE 06-17-09

DATE PREPARED 05/08/2009

ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	56

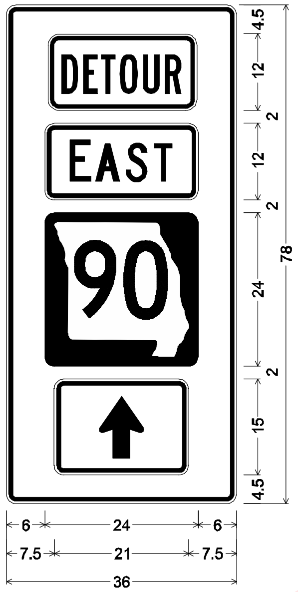
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

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

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, KANSAS CITY, MO. 64145
OFFICE (816)-941-6100 FAX (816)-941-6102

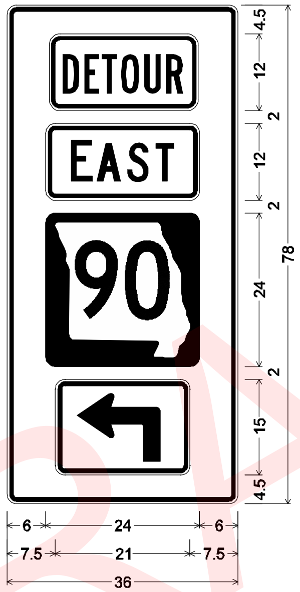
DETOUR SIGN DETAILS



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

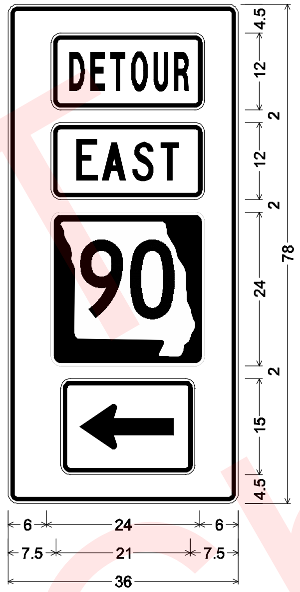
50A



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

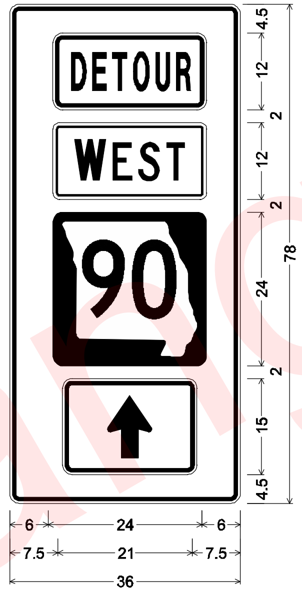
50B



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

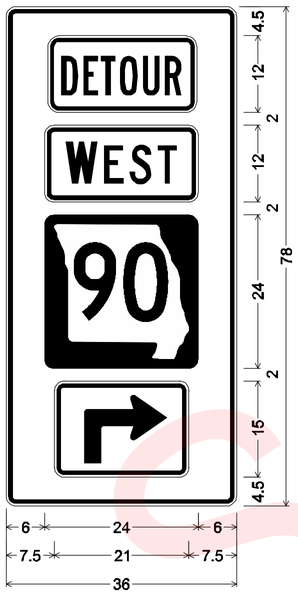
50C



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

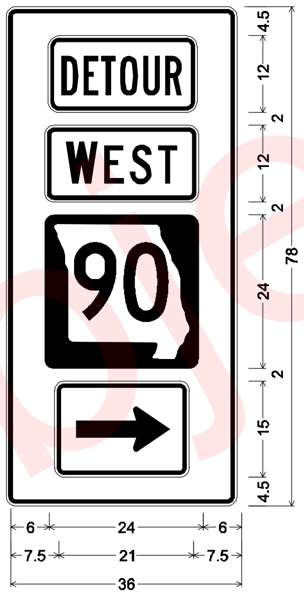
50D



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

50E



MO4-11-36 SHR4L1;
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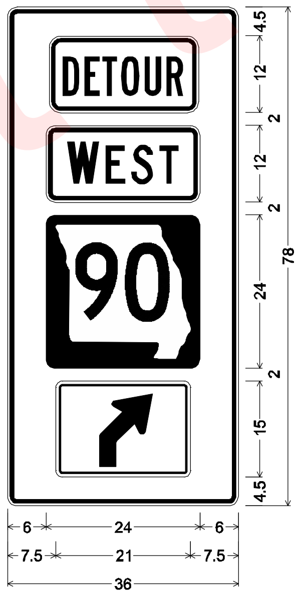
Table of letter and object lefts.

6.000
6.000
6.000
7.500

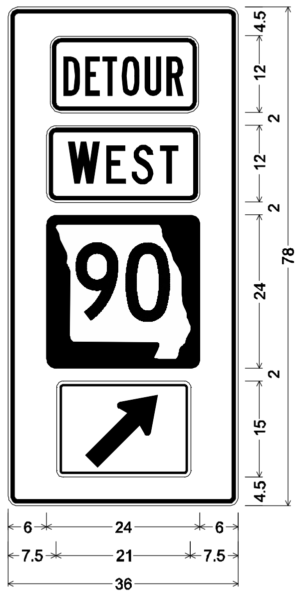
50F



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

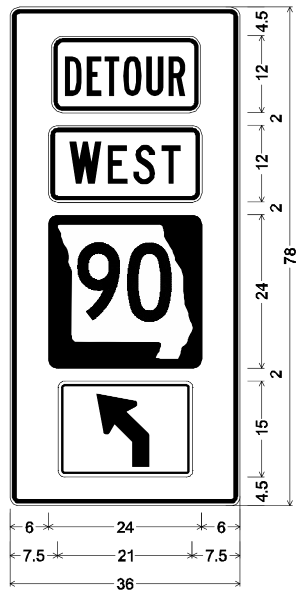
50G



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

50H



MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500

50J

TRAFFIC CONTROL SHEET
SHEET 1 OF 7

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 57
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

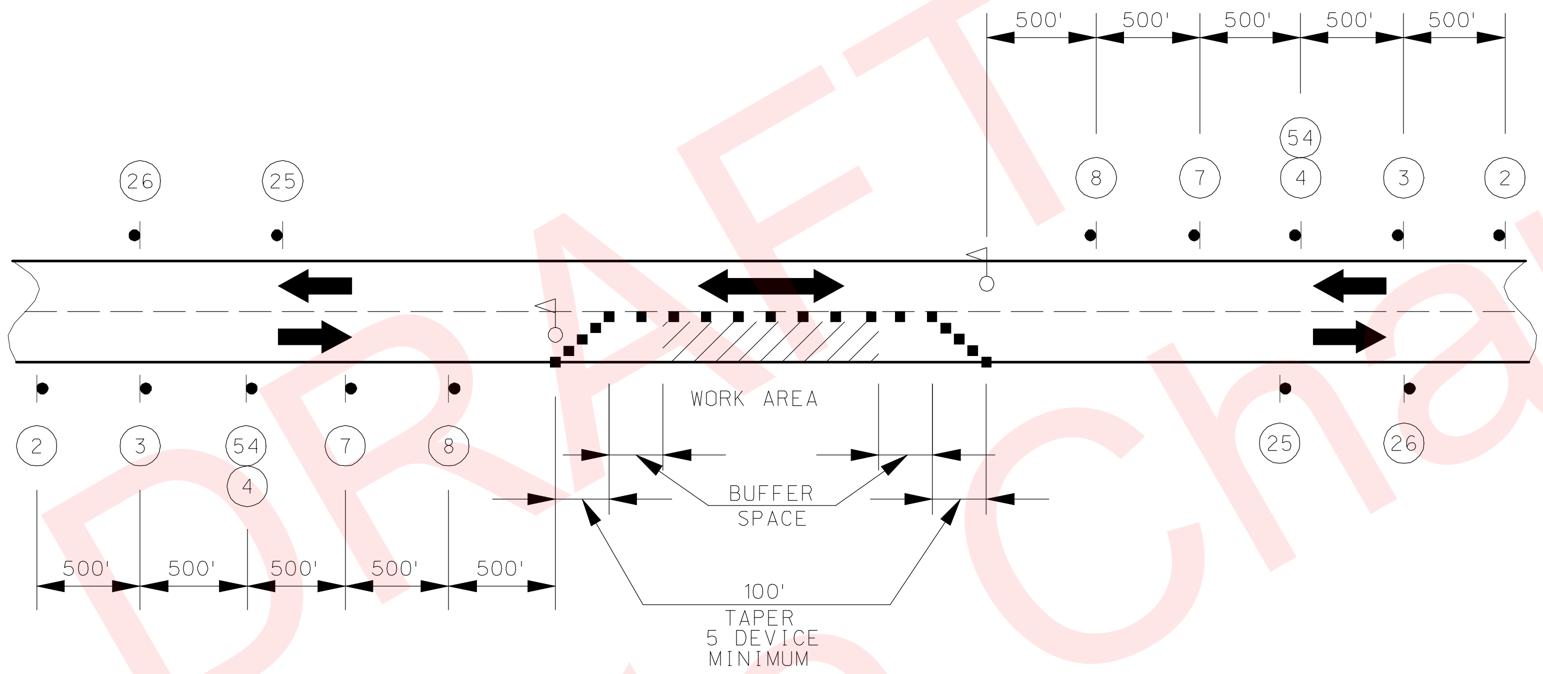
DESCRIPTION

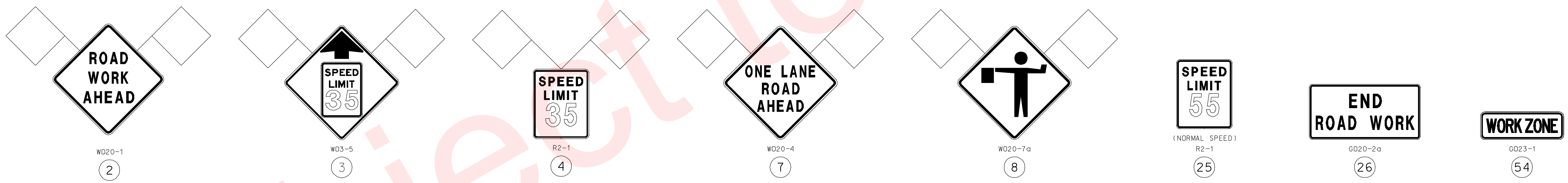
DATE

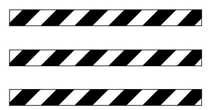
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

TWO-WAY SINGLE LANE OPERATION
TWO-LANE UNDIVIDED HIGHWAY







ADVANCE WARNING RAIL SYSTEM (AWRS)

TO BE INSTALLED ON THE FIRST OCCURENCE OF THE ROAD WORK AHEAD (WO20-1) SIGNS IF SIGNS WILL BE STATIONARY FOR MORE THAN 3 DAYS.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- TRIM-LINE CHANNELIZER

NOTES:

THIS SHEET IS TO BE USED IN CONJUNCTION WITH THE BEGIN/END PROJECT SIGNING SHEET.

THIS SHEET IS TO BE USED FOR DAYLIGHT FLAGGING OPERATIONS ONLY.

USE DRUM-LIKE CHANNELIZERS AND WORK ZONE LIGHTING FOR NIGHTTIME FLAGGING OPERATIONS.

SPACING OF DEVICES MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

ANY SIGN THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COVERED.

TRAFFIC CONTROL SHEET
SHEET 2 OF 7

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	58
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

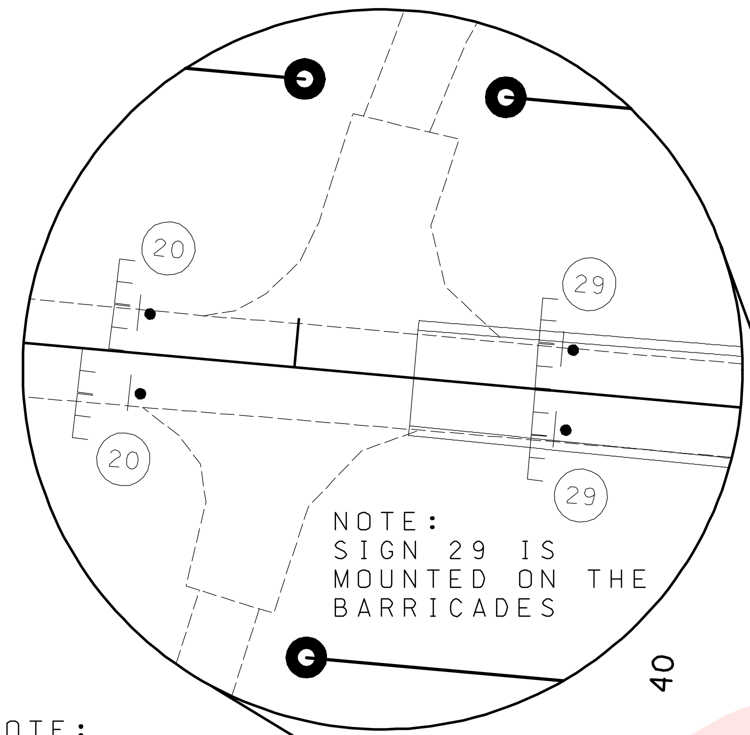
DESCRIPTION

DATE

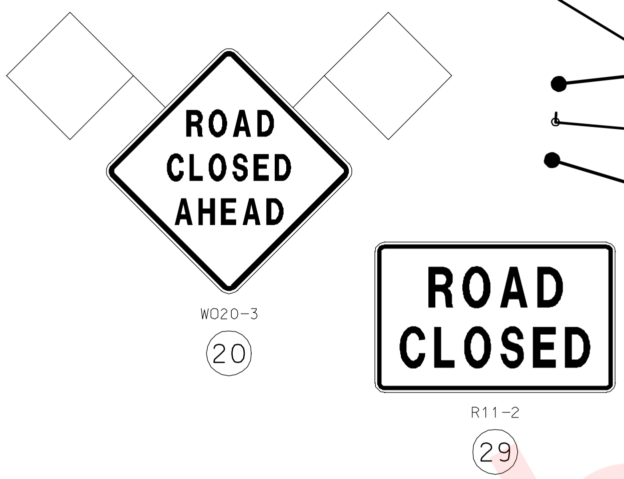
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

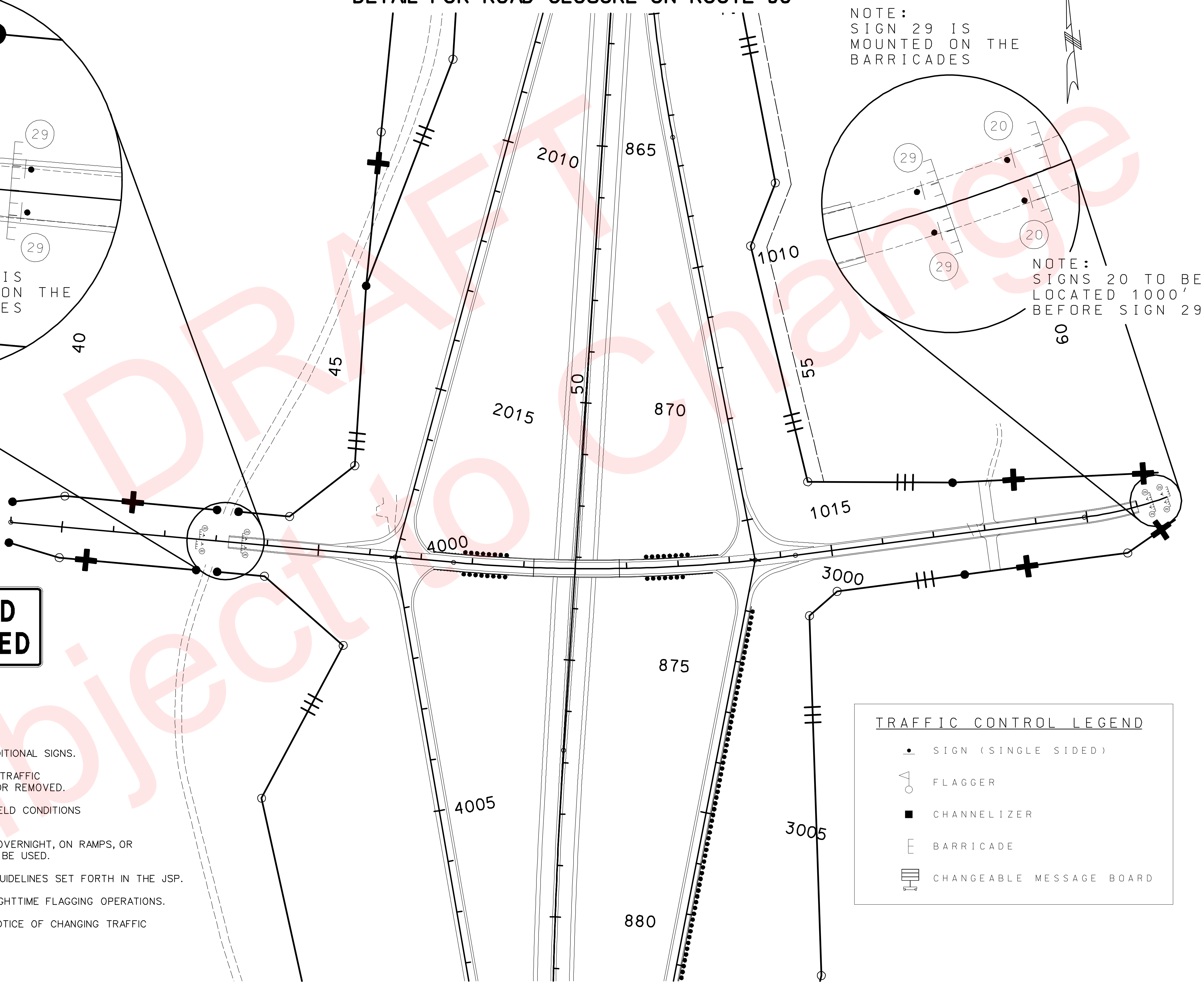
REV.

DETAIL FOR ROAD CLOSURE ON ROUTE 90



NOTE:
SIGNS 20 TO BE
LOCATED 1000'
BEFORE SIGN 29





TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

NOTES:

SEE DETAILS OF DETOURS SIGNING SHEET FOR ADDITIONAL SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.

SPACING OF SIGNS MAY BE ADJUSTED TO MEET FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER.

FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, ON RAMPS, OR AT INTERSECTIONS, TRIM-LINE CHANNELIZERS SHALL BE USED.

ALL LANE CLOSURES SHALL CONFORM WITH TIME GUIDELINES SET FORTH IN THE JSP.

TEMPORARY LIGHTING SHALL BE USED WITH ALL NIGHTTIME FLAGGING OPERATIONS.

CMS BOARDS MAY BE USED TO GIVE ADVANCED NOTICE OF CHANGING TRAFFIC PATTERNS OR DETOURS AS NECESSARY.

SCALE

0 100 200 300 400 500

TRAFFIC CONTROL SHEET
SHEET 3 OF 7

DRAFT Subject to Change

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 59
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

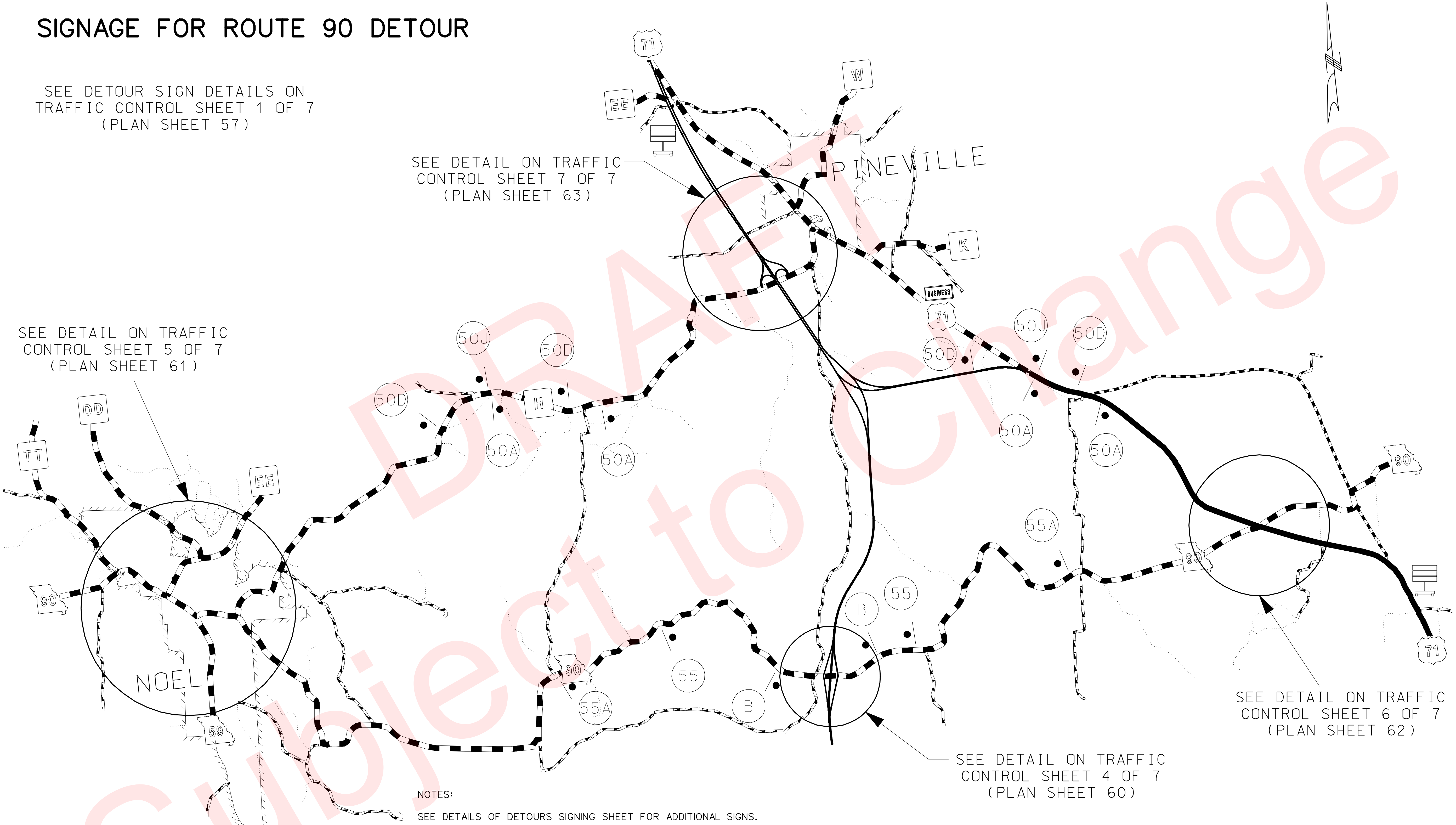
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

059_TC_03_J7P0601_I100.dgn 10:21:23 AM 02/04/2010

SIGNAGE FOR ROUTE 90 DETOUR



NOTES:

SEE DETAILS OF DETOURS SIGNING SHEET FOR ADDITIONAL SIGNS.

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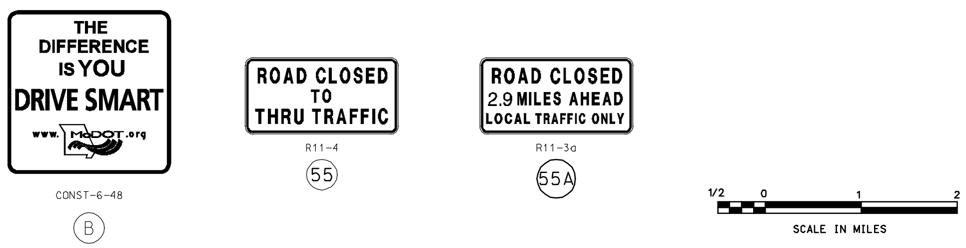


TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL SHEET
SHEET 4 OF 7

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	60
COUNTY	McDONALD
JOB NO.	J7P0601
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)

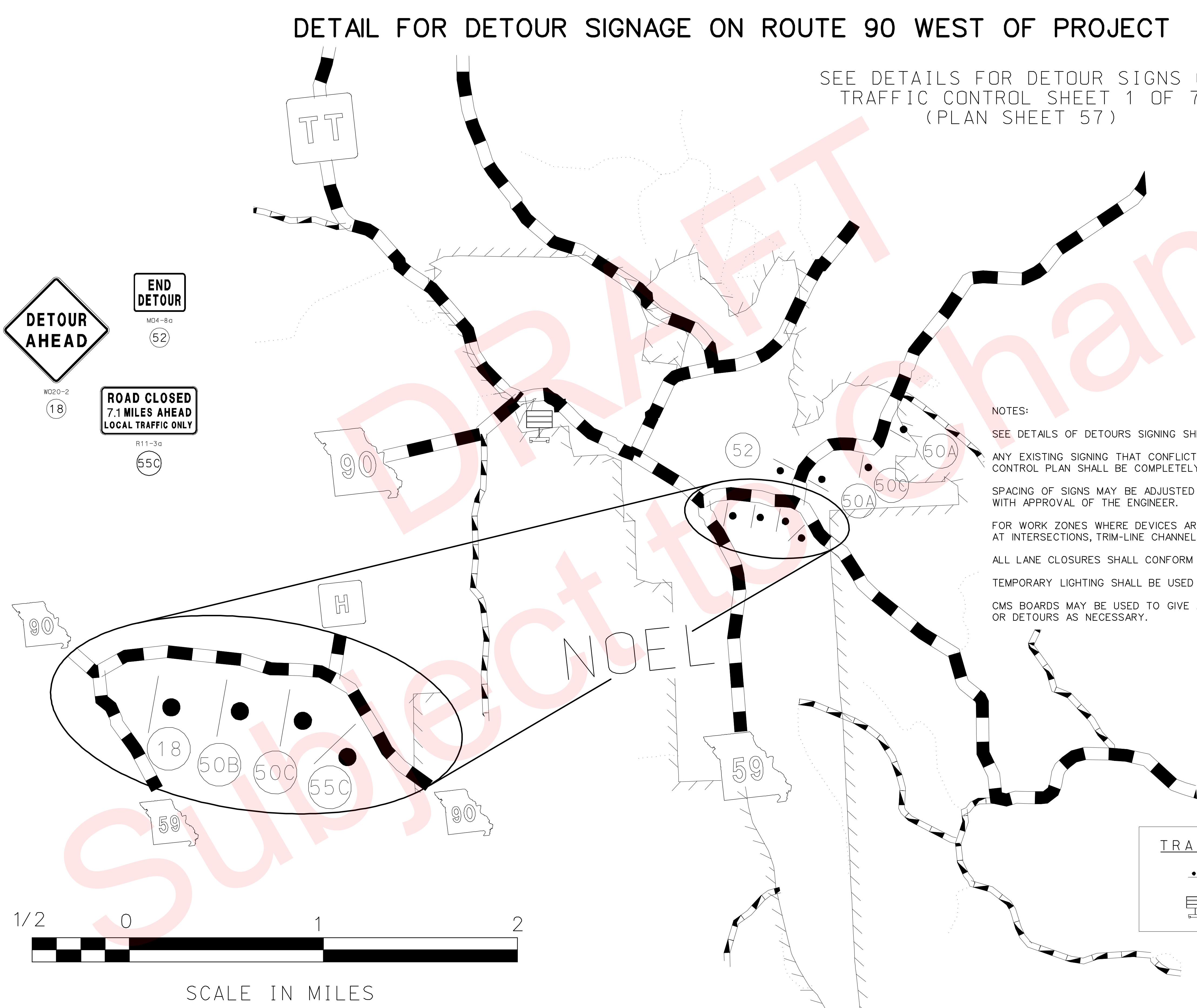
MoDOT

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

REV.

DETAIL FOR DETOUR SIGNAGE ON ROUTE 90 WEST OF PROJECT

SEE DETAILS FOR DETOUR SIGNS ON
TRAFFIC CONTROL SHEET 1 OF 7
(PLAN SHEET 57)



NOTES:

SEE DETAILS OF DETOURS SIGNING SHEET FOR ADDITIONAL SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.

SPACING OF SIGNS MAY BE ADJUSTED TO MEET FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER.

FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, ON RAMPS, OR AT INTERSECTIONS, TRIM-LINE CHANNELIZERS SHALL BE USED.

ALL LANE CLOSURES SHALL CONFORM WITH TIME GUIDELINES SET FORTH IN THE JSP.

TEMPORARY LIGHTING SHALL BE USED WITH ALL NIGHTTIME FLAGGING OPERATIONS.

CMS BOARDS MAY BE USED TO GIVE ADVANCED NOTICE OF CHANGING TRAFFIC PATTERNS OR DETOURS AS NECESSARY.

TRAFFIC CONTROL SHEET
SHEET 5 OF 7

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 61
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

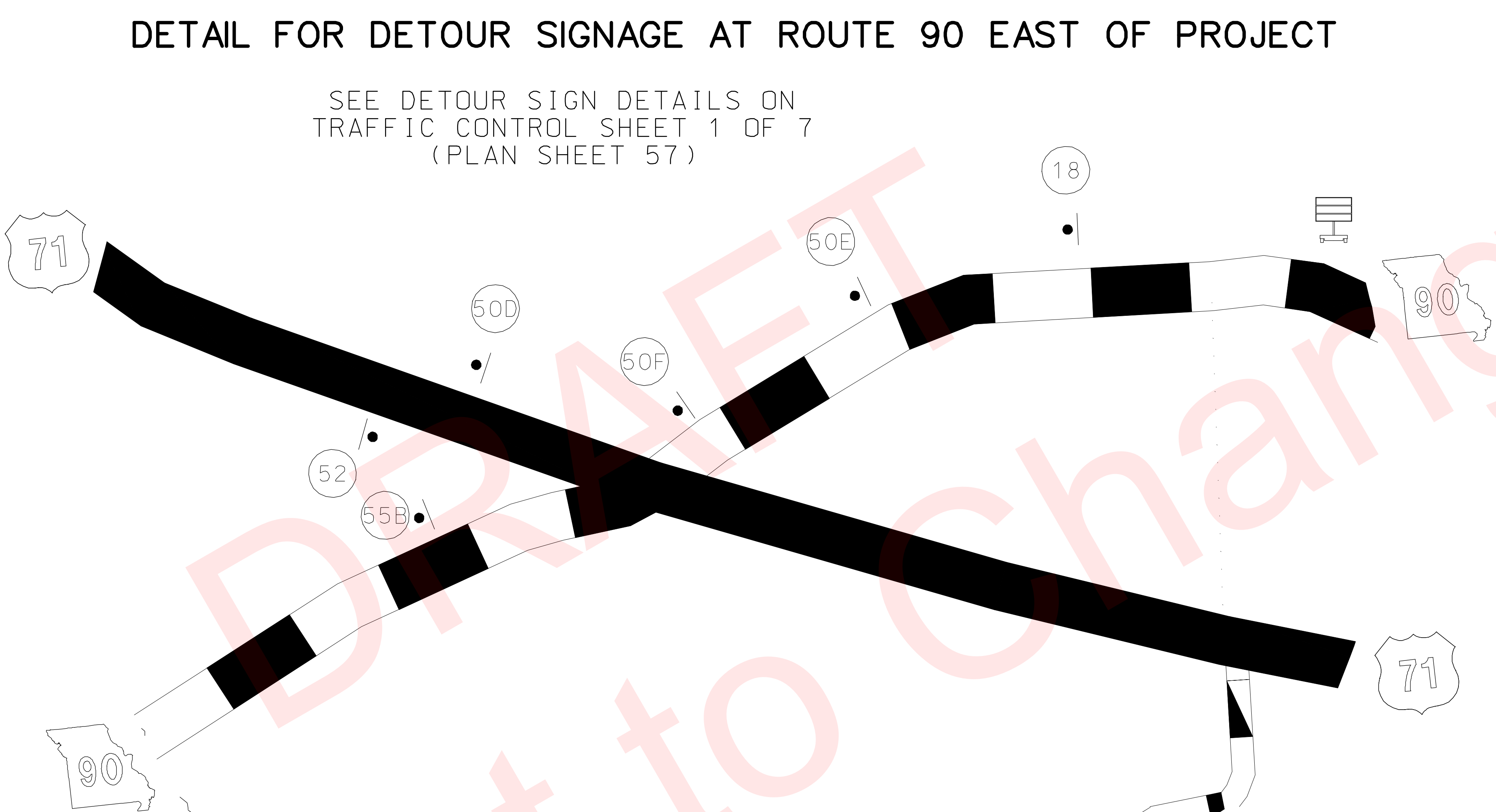
DATE

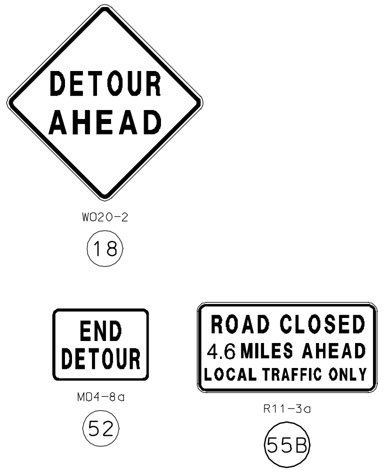
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

DETAIL FOR DETOUR SIGNAGE AT ROUTE 90 EAST OF PROJECT

SEE DETOUR SIGN DETAILS ON
TRAFFIC CONTROL SHEET 1 OF 7
(PLAN SHEET 57)





NOTES:

SEE DETAILS OF DETOURS SIGNING SHEET FOR ADDITIONAL SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.

SPACING OF SIGNS MAY BE ADJUSTED TO MEET FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER.

FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, ON RAMPS, OR AT INTERSECTIONS, TRIM-LINE CHANNELIZERS SHALL BE USED.

ALL LANE CLOSURES SHALL CONFORM WITH TIME GUIDELINES SET FORTH IN THE JSP.

TEMPORARY LIGHTING SHALL BE USED WITH ALL NIGHTTIME FLAGGING OPERATIONS.

CMS BOARDS MAY BE USED TO GIVE ADVANCED NOTICE OF CHANGING TRAFFIC PATTERNS OR DETOURS AS NECESSARY.

SCALE IN MILES

TRAFFIC CONTROL LEGEND

SIGN (SINGLE SIDED)

CHANGEABLE MESSAGE BOARD

TRAFFIC CONTROL SHEET
SHEET 6 OF 7

DRAFT Subject to Change

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	62
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

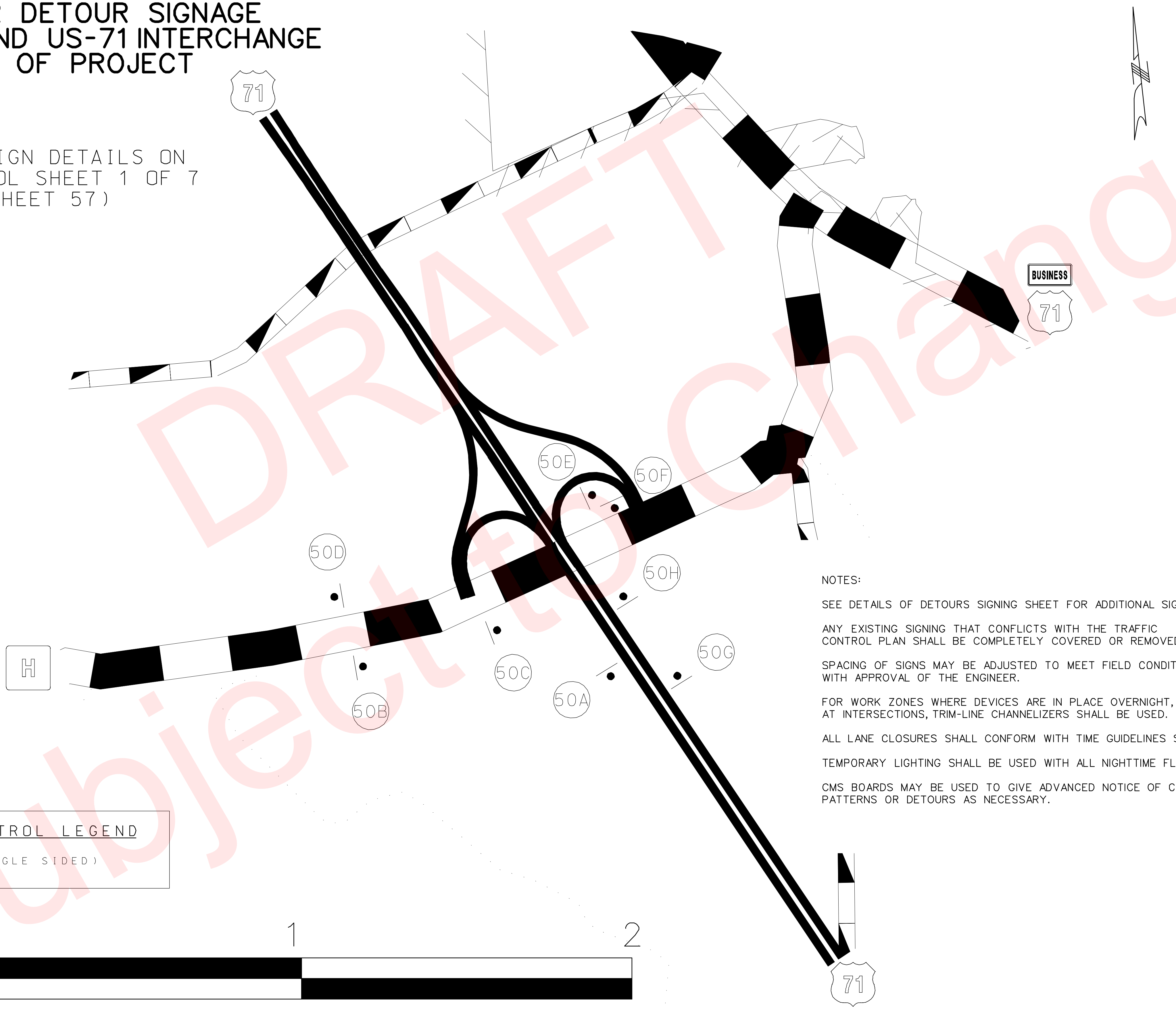
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT

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

REV.

DETAIL FOR DETOUR SIGNAGE AT ROUTE H AND US-71 INTERCHANGE NORTH OF PROJECT

SEE DETOUR SIGN DETAILS ON TRAFFIC CONTROL SHEET 1 OF 7 (PLAN SHEET 57)



NOTES:

SEE DETAILS OF DETOURS SIGNING SHEET FOR ADDITIONAL SIGNS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL PLAN SHALL BE COMPLETELY COVERED OR REMOVED.

SPACING OF SIGNS MAY BE ADJUSTED TO MEET FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER.

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ALL LANE CLOSURES SHALL CONFORM WITH TIME GUIDELINES SET FORTH IN THE JSP.

TEMPORARY LIGHTING SHALL BE USED WITH ALL NIGHTTIME FLAGGING OPERATIONS.

CMS BOARDS MAY BE USED TO GIVE ADVANCED NOTICE OF CHANGING TRAFFIC PATTERNS OR DETOURS AS NECESSARY.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

1/2 0 1 2

SCALE IN MILES

TRAFFIC CONTROL SHEET
SHEET 7 OF 7

DATE PREPARED	
02/04/2010	
ROUTE: 49	STATE: MO
DISTRICT: 7	SHEET NO.: 63
COUNTY: McDONALD	
JOB NO.: J7P0601	
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

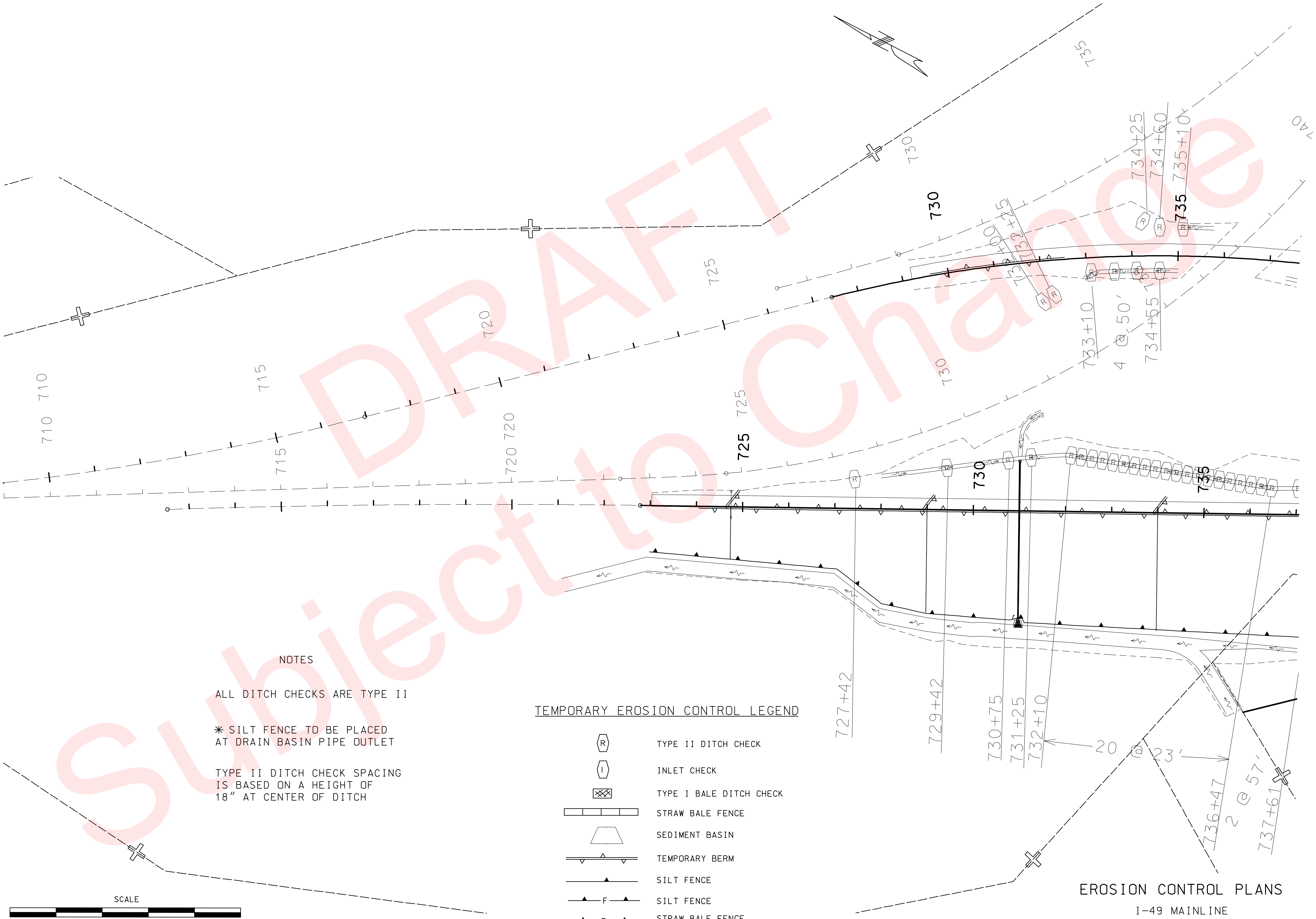
REV.

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 64
COUNTY McDONALD	
JOB NO. J7P0601	
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)



NOTES

ALL DITCH CHECKS ARE TYPE II

* SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

TEMPORARY EROSION CONTROL LEGEND

TYPE II DITCH CHECK
INLET CHECK
TYPE I BALE DITCH CHECK
STRAW BALE FENCE
SEDIMENT BASIN
TEMPORARY BERM
SILT FENCE
SILT FENCE
STRAW BALE FENCE

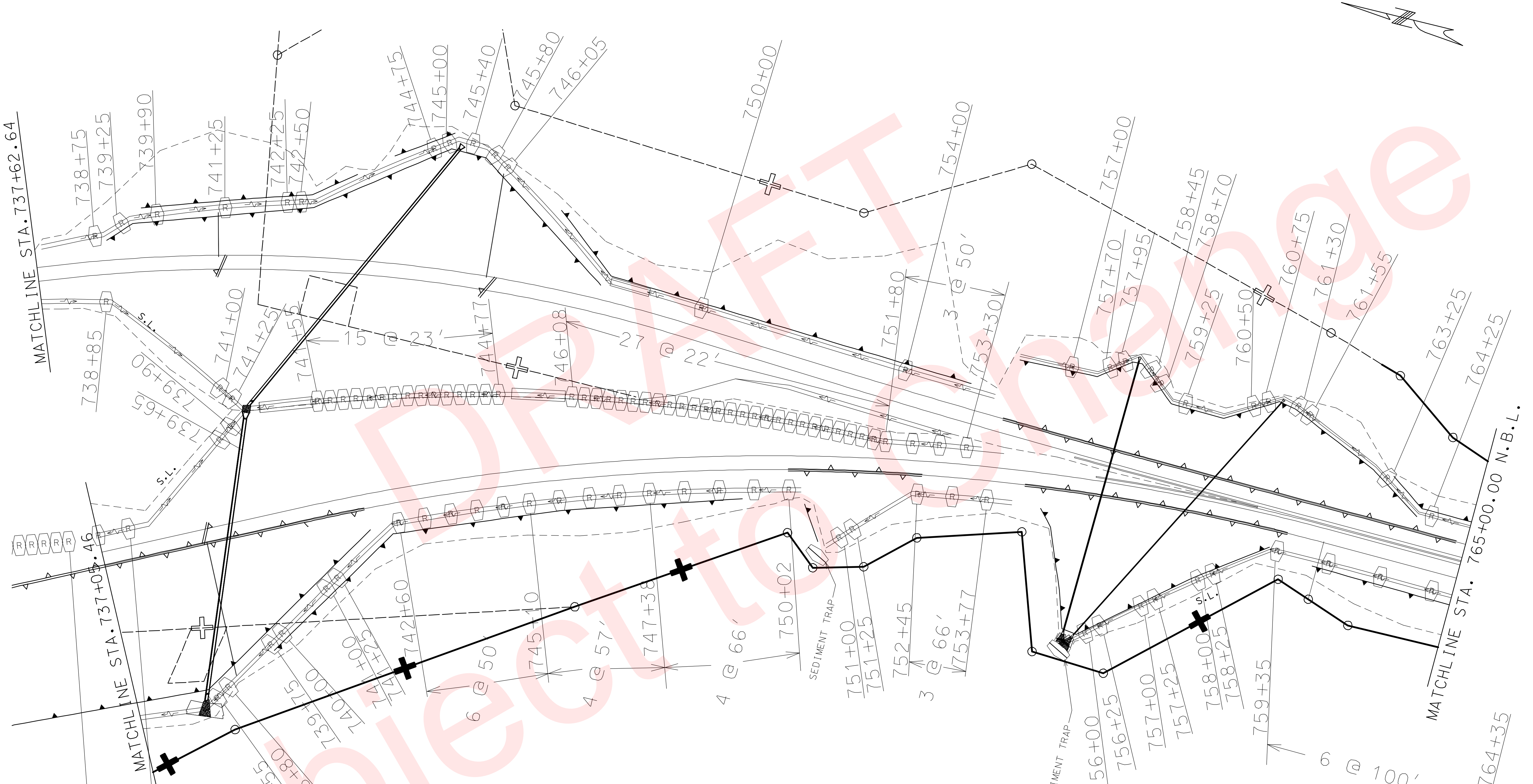
SCALE
0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 1 OF 14

REV.



DRAFT Subject to Change

TEMPORARY EROSION CONTROL LEGEND

Symbol	Description
R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

* SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 2 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 65
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

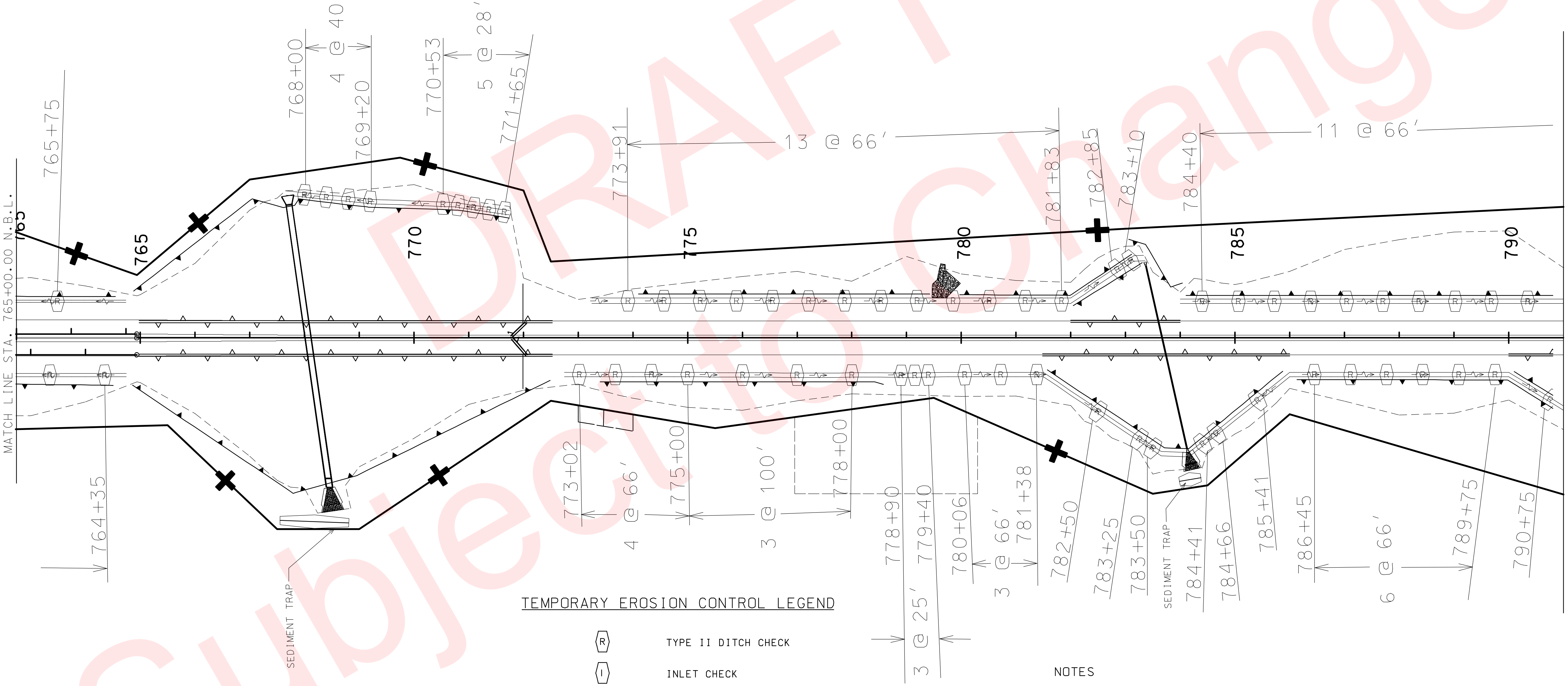
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



TEMPORARY EROSION CONTROL LEGEND

Symbol	Description
R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

* SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	66
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

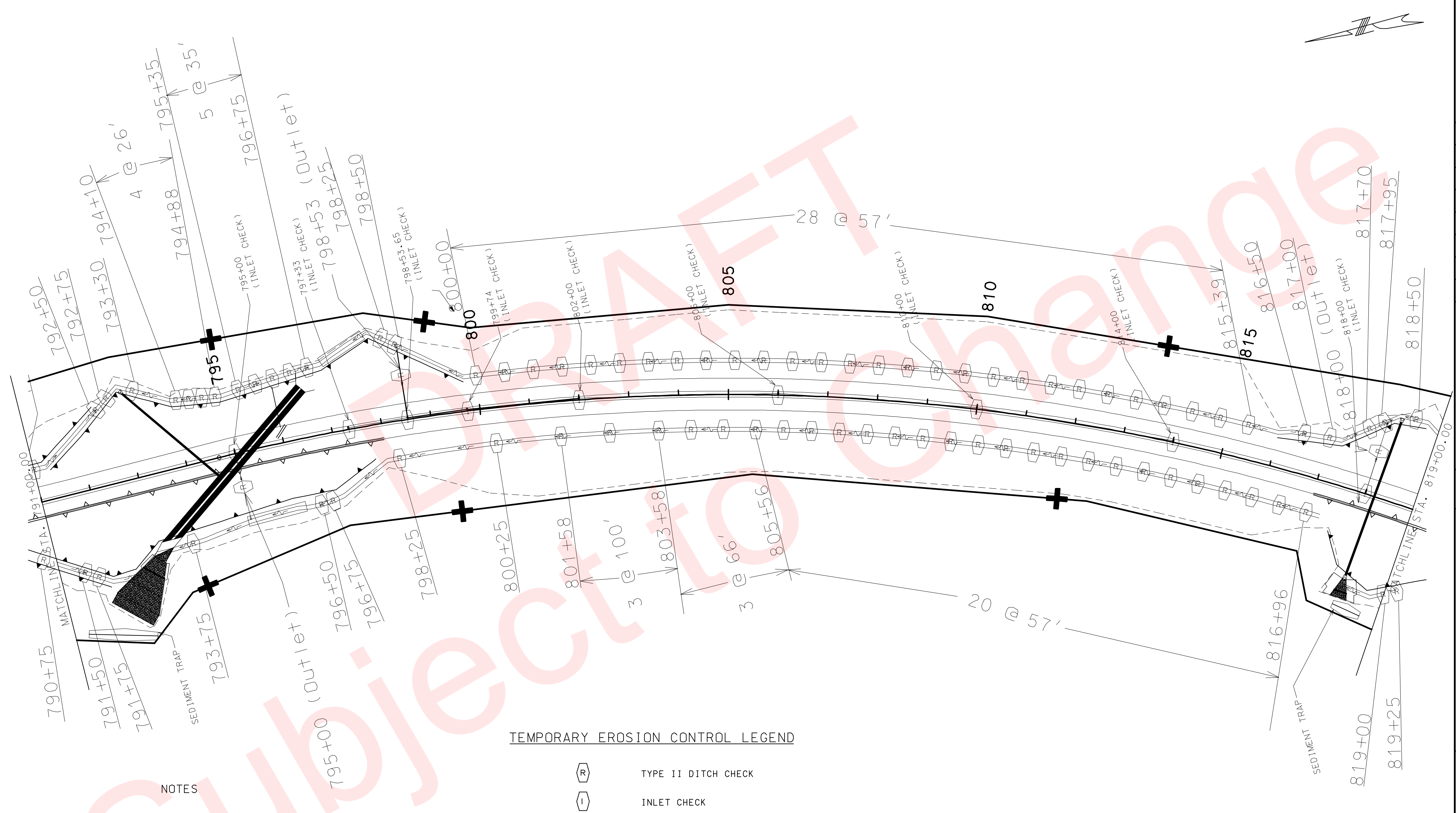
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

EROSION CONTROL PLANS

I-49 MAINLINE

REV.



TEMPORARY EROSION CONTROL LEGEND

- TYPE II DITCH CHECK
- INLET CHECK
- TYPE I BALE DITCH CHECK
- STRAW BALE FENCE
- SEDIMENT BASIN
- TEMPORARY BERM
- SILT FENCE
- SILT FENCE
- STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

* SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 4 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 67
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

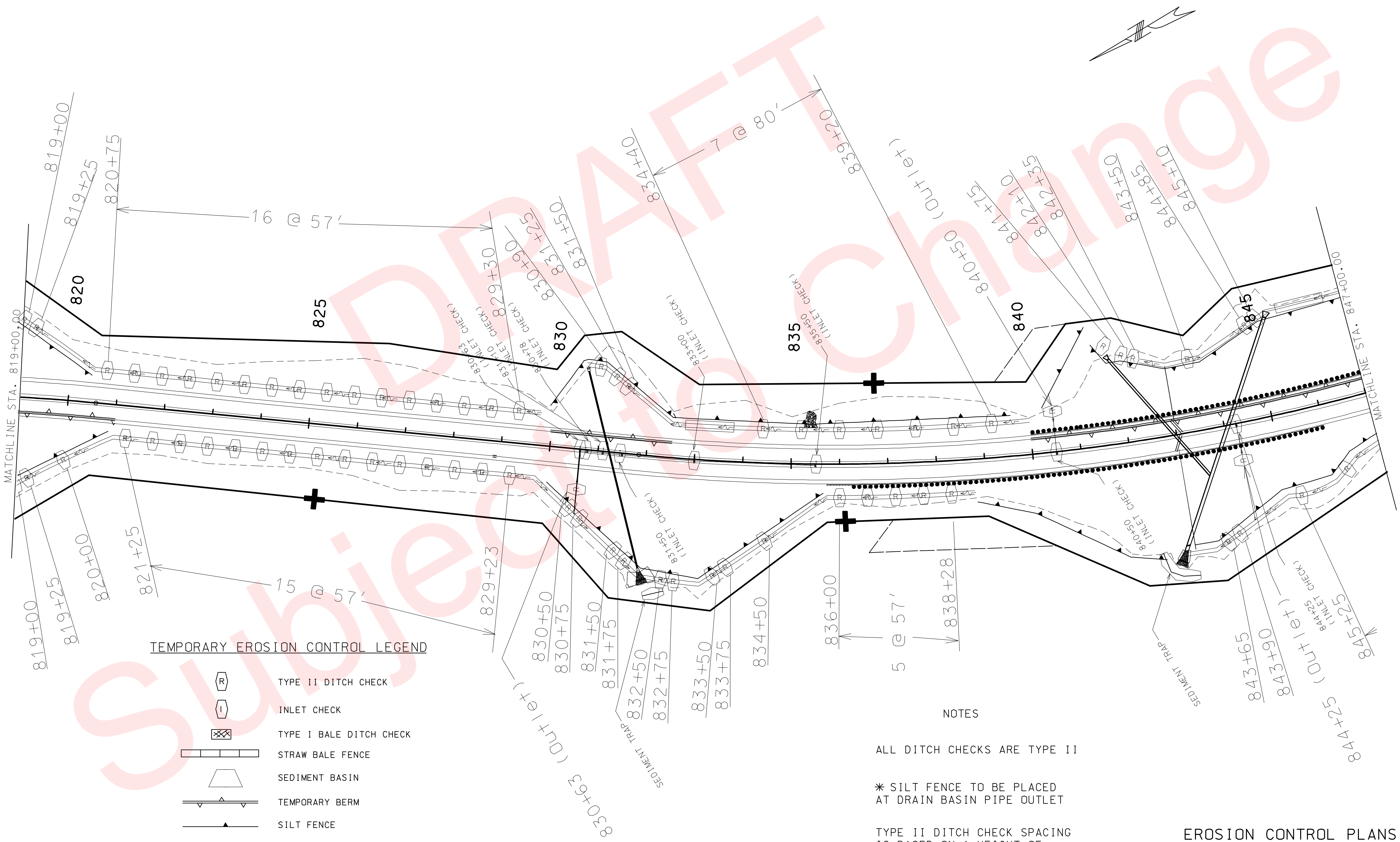
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

067_EC_04_J7P0601_I100.dgn 10:21:40 AM 02/04/2010



TEMPORARY EROSION CONTROL LEGEND

- R — TYPE II DITCH CHECK
- I — INLET CHECK
- TYPE I BALE DITCH CHECK
- STRAW BALE FENCE
- SEDIMENT BASIN
- TEMPORARY BERM
- SILT FENCE
- —F— SILT FENCE
- —B— STRAW BALE FENCE

SCALE

0 100 200 300 400 500

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 5 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 68
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

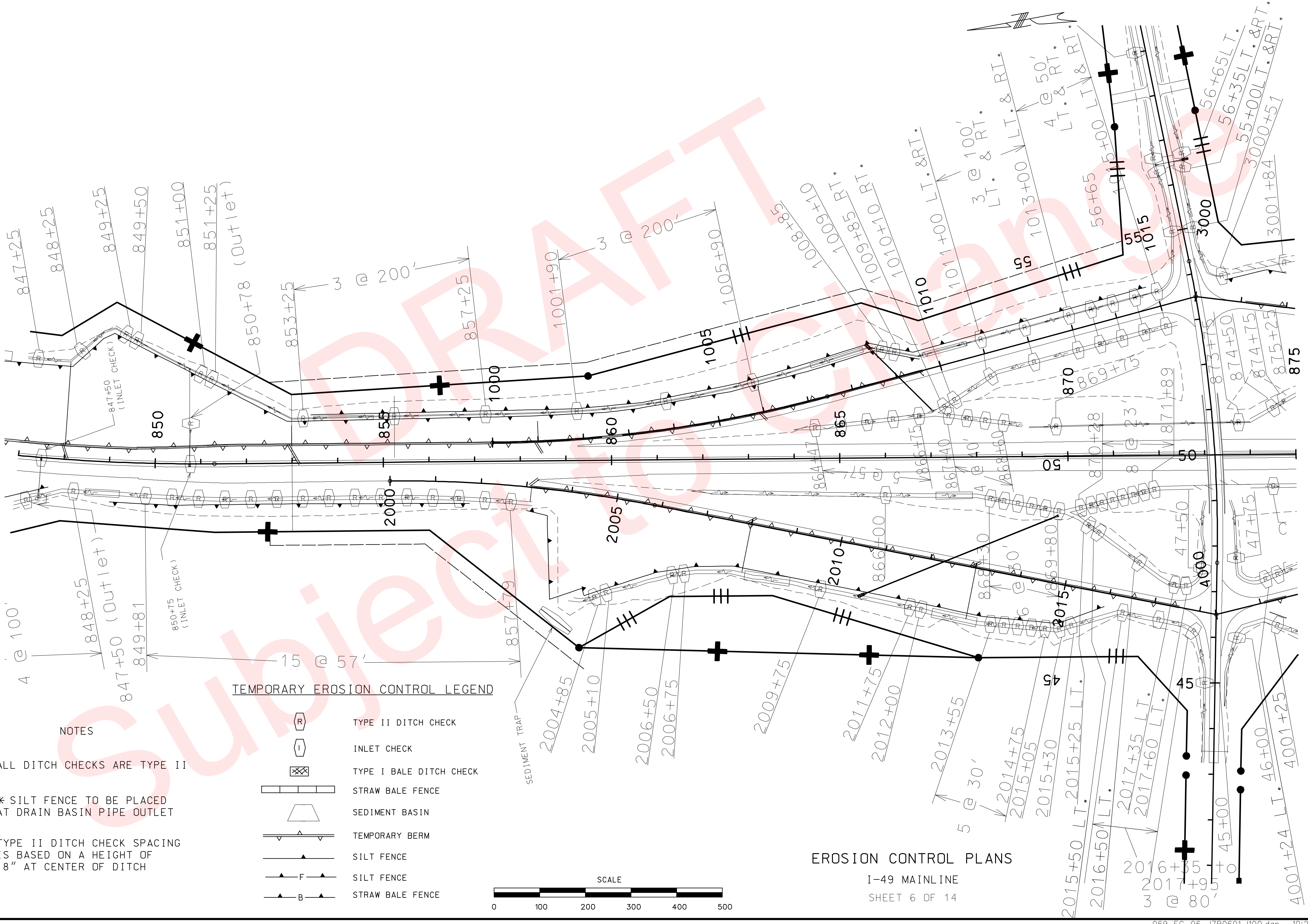
DESCRIPTION

DATE

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

MoDOT

REV.



TEMPORARY EROSION CONTROL LEGEND

R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 6 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 69
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE | DESCRIPTION

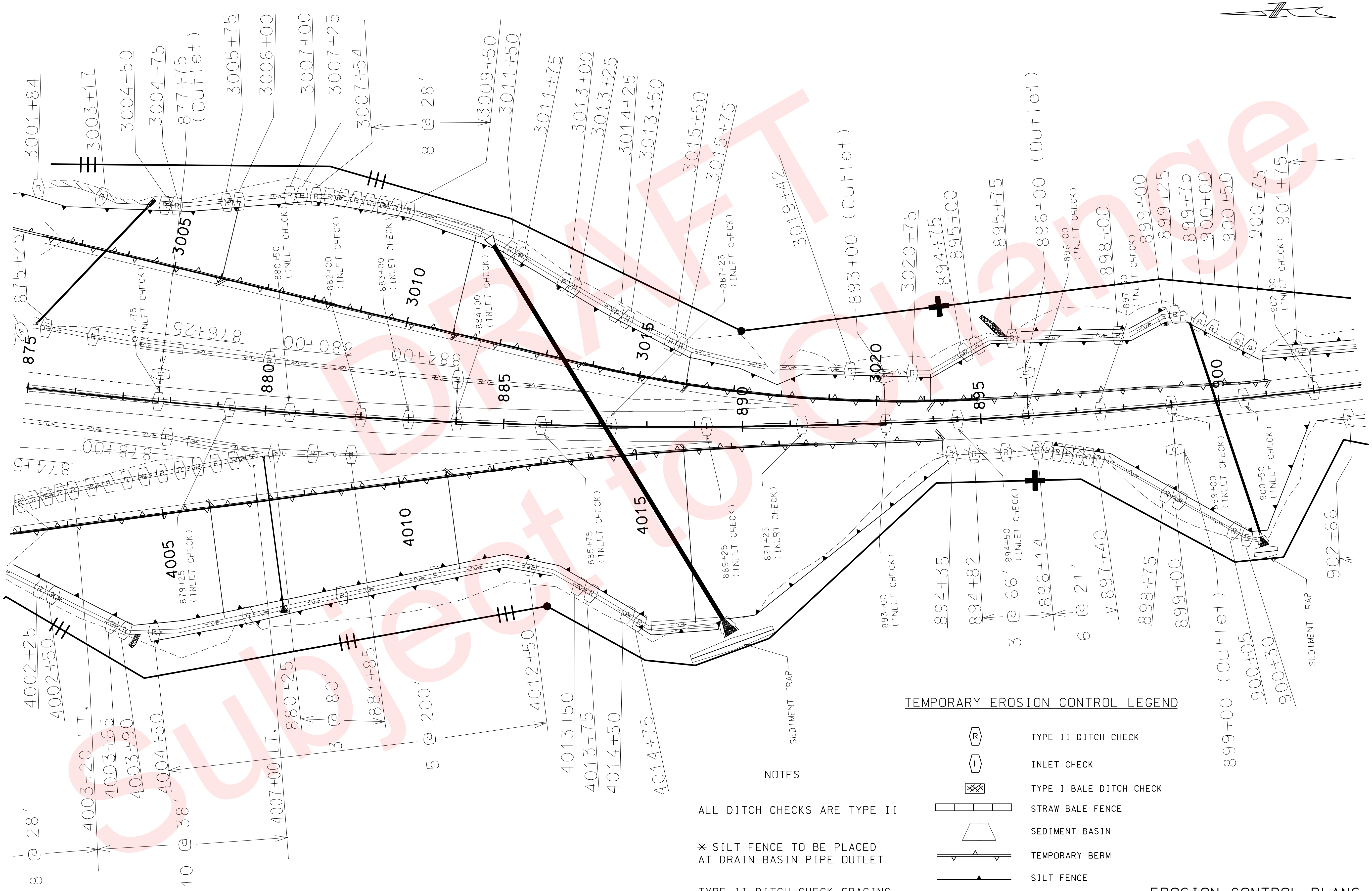
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



TEMPORARY EROSION CONTROL LEGEND

Symbol	Description
(R)	TYPE II DITCH CHECK
(I)	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
—F—	SILT FENCE
—B—	STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

* SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE
0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	70
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

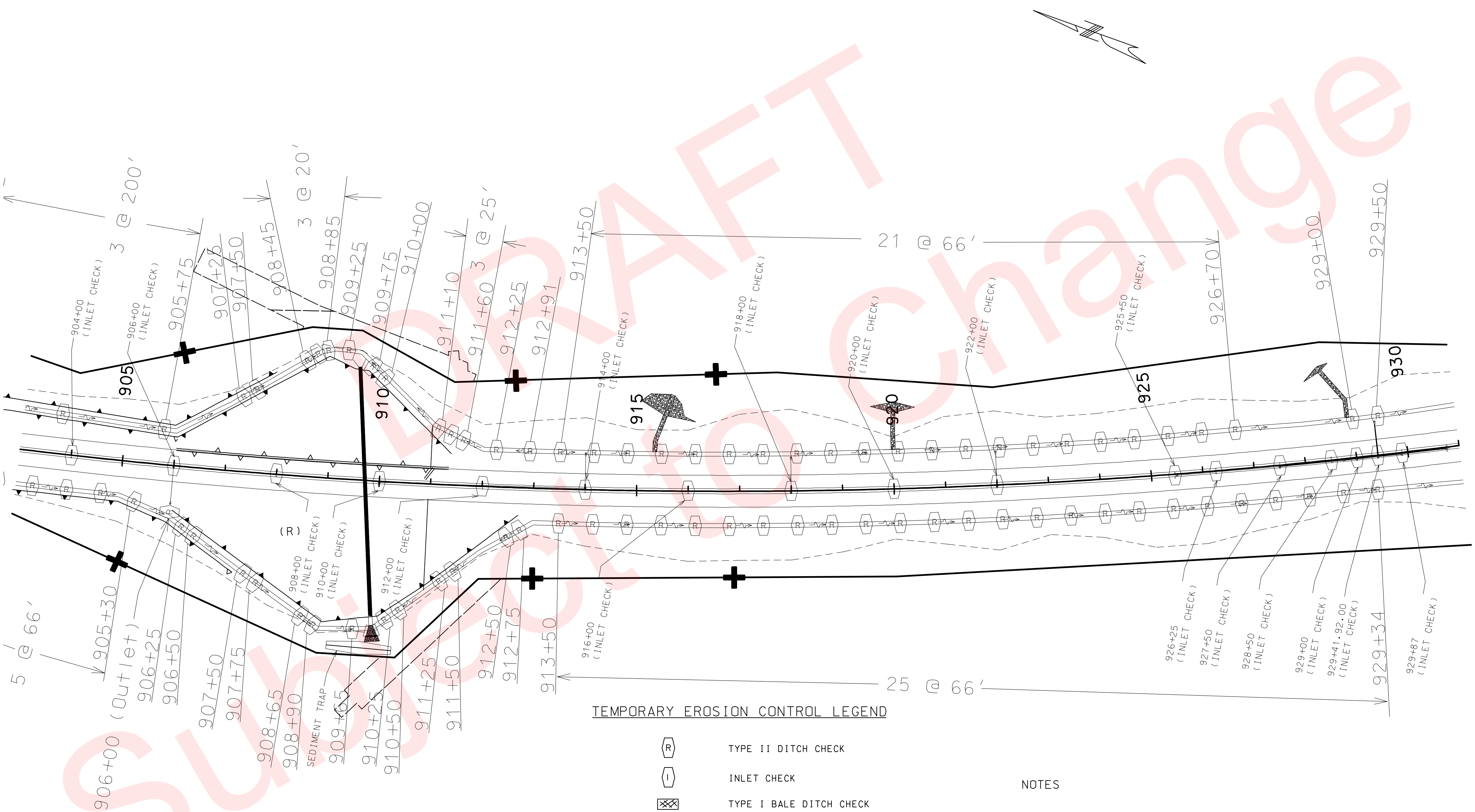
DESCRIPTION

DATE

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

MoDOT

REV.



TEMPORARY EROSION CONTROL LEGEND

- TYPE II DITCH CHECK
- INLET CHECK
- TYPE I BALE DITCH CHECK
- STRAW BALE FENCE
- SEDIMENT BASIN
- TEMPORARY BERM
- SILT FENCE
- SILT FENCE
- STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

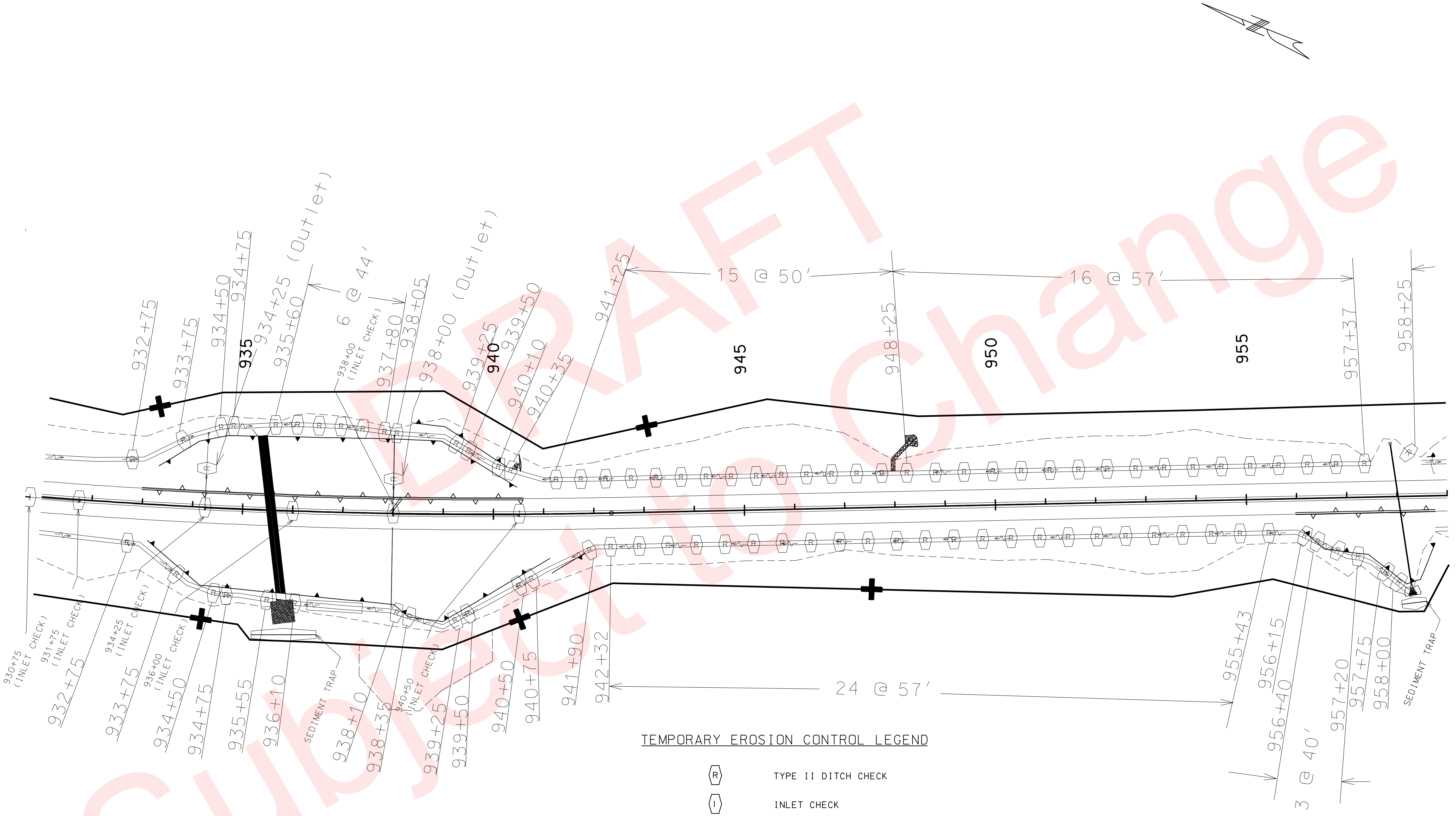
SHEET 8 OF 14

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 71
COUNTY McDONALD	
JOB NO. J7P0601	
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)

REV.



TEMPORARY EROSION CONTROL LEGEND

TYPE II DITCH CHECK

INLET CHECK

TYPE I BALE DITCH CHECK

STRAW BALE FENCE

SEDIMENT BASIN

TEMPORARY BERM

SILT FENCE

SILT FENCE

STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED
AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING
IS BASED ON A HEIGHT OF
18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 9 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 72
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

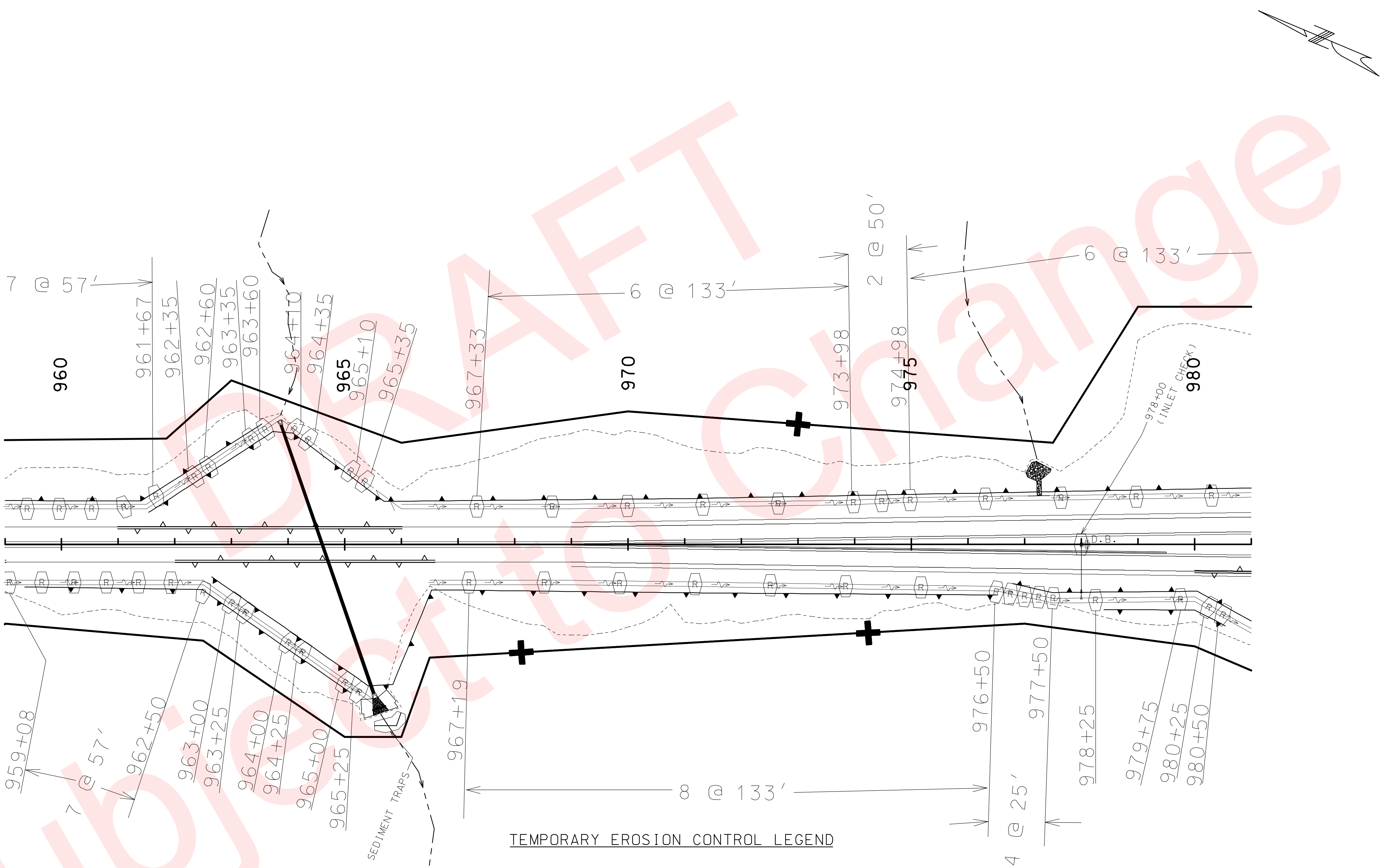
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

TEMPORARY EROSION CONTROL LEGEND

Symbol	Item
R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 10 OF 14

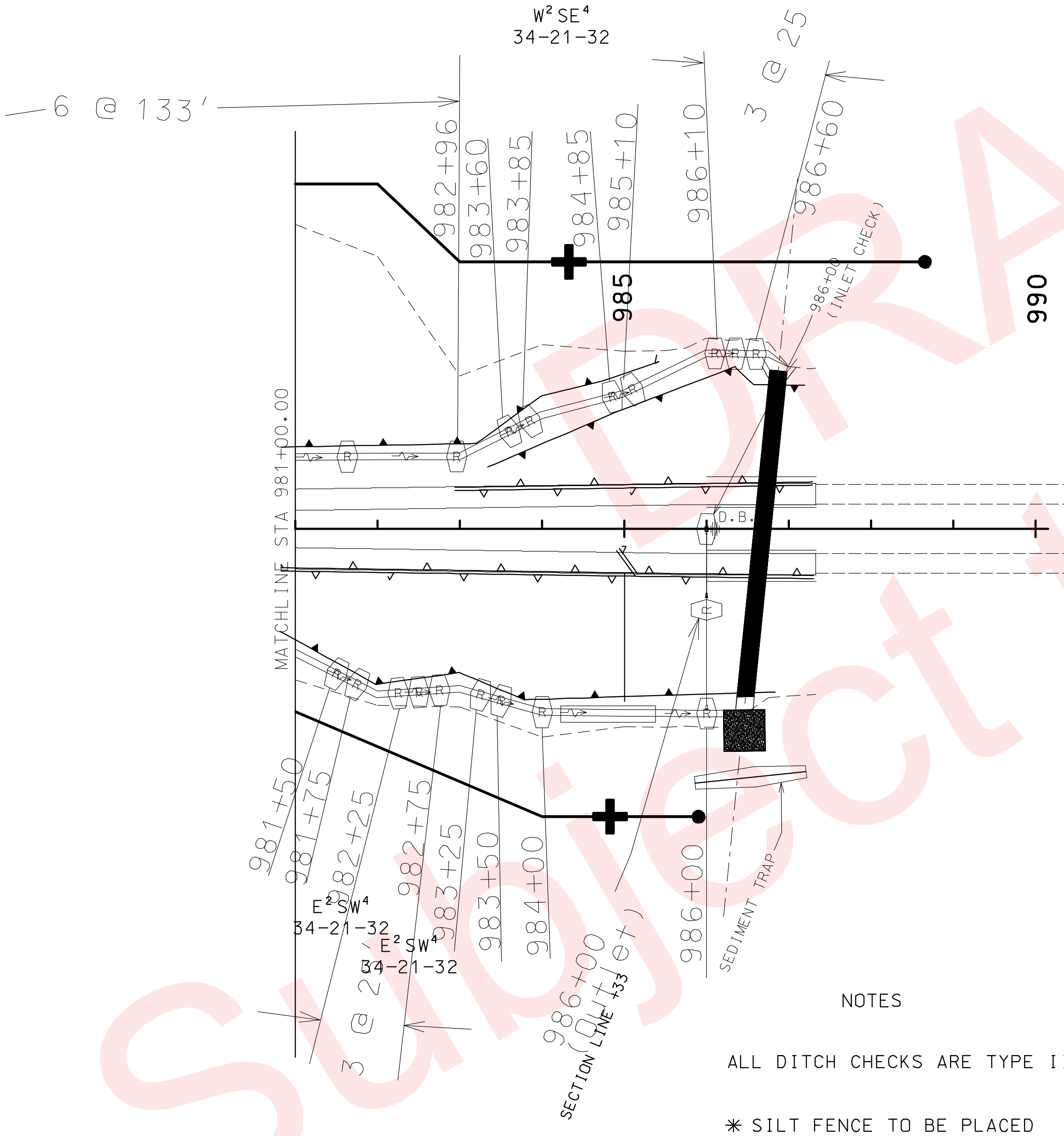
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 73
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

TEMPORARY EROSION CONTROL LEGEND

- TYPE II DITCH CHECK
- INLET CHECK
- TYPE I BALE DITCH CHECK
- STRAW BALE FENCE
- SEDIMENT BASIN
- TEMPORARY BERM
- SILT FENCE
- SILT FENCE
- STRAW BALE FENCE

SCALE
0 100 200 300 400 500

EROSION CONTROL PLANS

I-49 MAINLINE

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 74
COUNTY McDONALD	
JOB NO. J7P0601	
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)

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

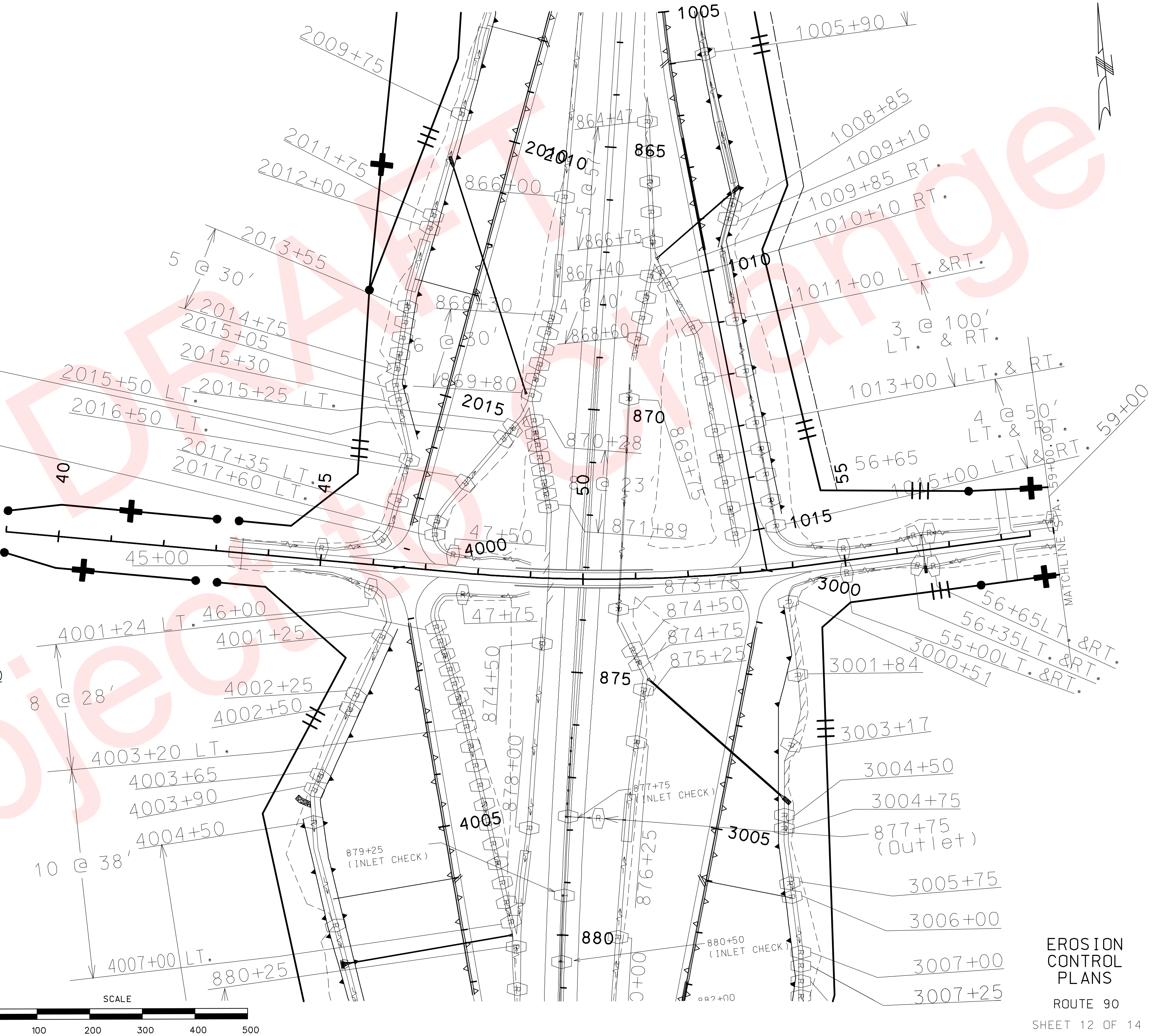
REV.

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH



TEMPORARY EROSION CONTROL LEGEND

Symbol	Description
R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

EROSION CONTROL PLANS

ROUTE 90

SHEET 12 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

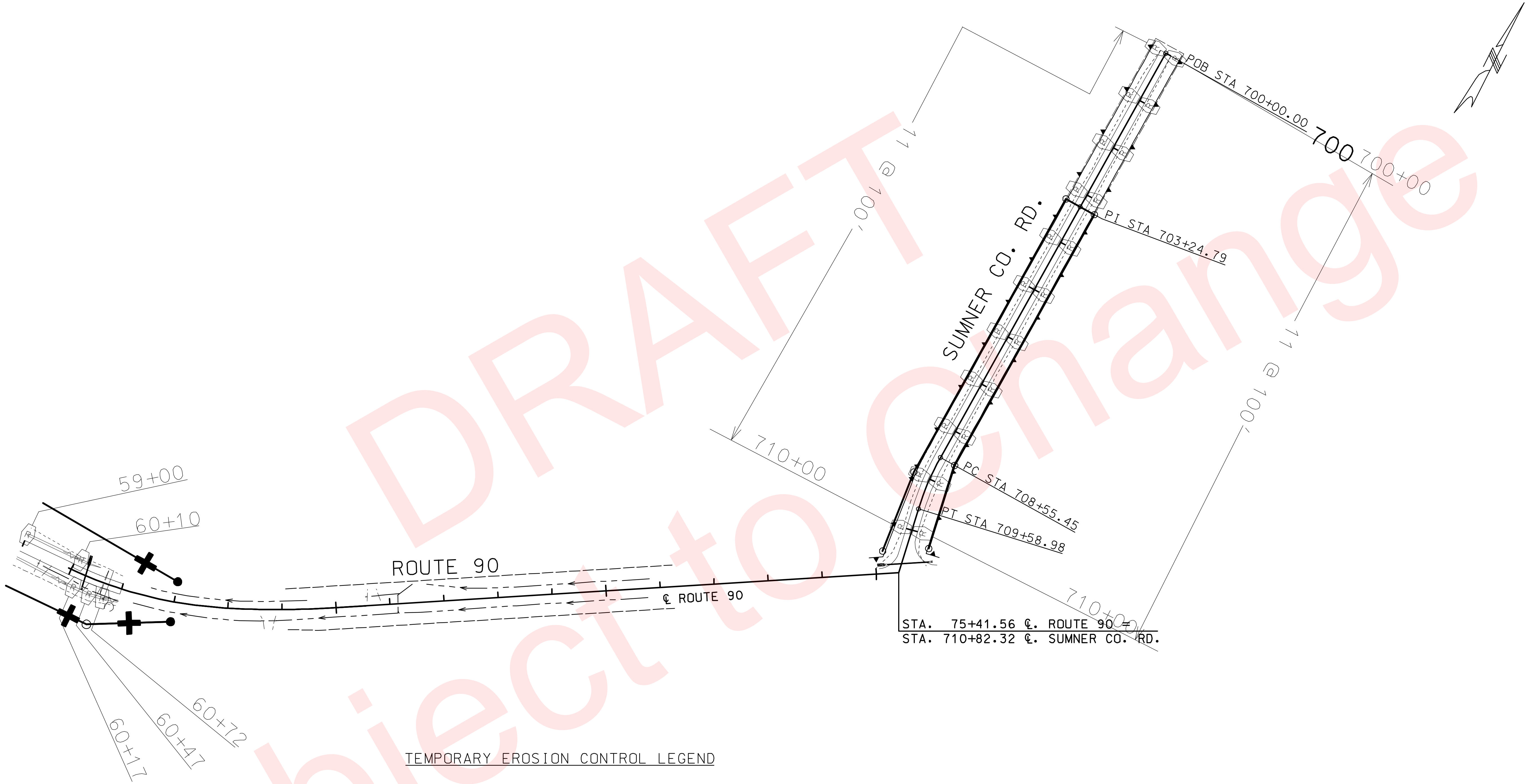
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	75
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



TEMPORARY EROSION CONTROL LEGEND

Symbol	Description
R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING IS BASED ON A HEIGHT OF 18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

SUMNER CO. RD. & PART ROUTE 90

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 76
COUNTY McDONALD	
JOB NO. J7P0601	
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)

REV.

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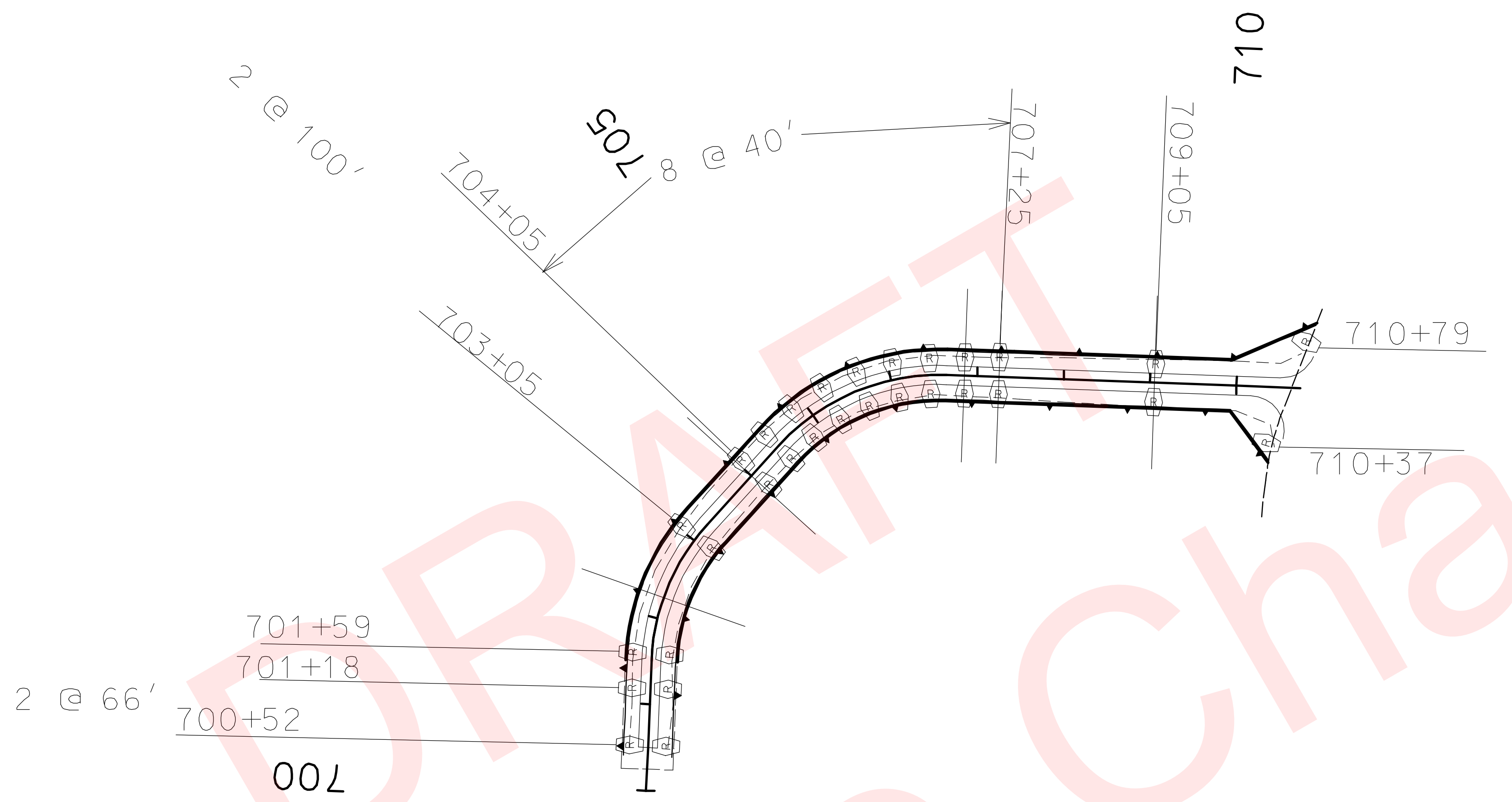
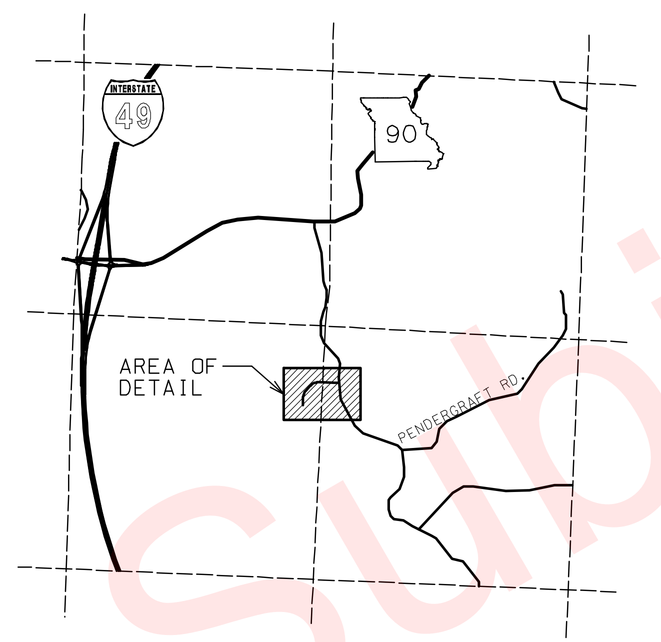


LOCATION MAP
(N.T.S.)



TEMPORARY EROSION CONTROL LEGEND

R	TYPE II DITCH CHECK
I	INLET CHECK
	TYPE I BALE DITCH CHECK
	STRAW BALE FENCE
	SEDIMENT BASIN
	TEMPORARY BERM
	SILT FENCE
F	SILT FENCE
B	STRAW BALE FENCE

NOTES

ALL DITCH CHECKS ARE TYPE II

✳ SILT FENCE TO BE PLACED
AT DRAIN BASIN PIPE OUTLET

TYPE II DITCH CHECK SPACING
IS BASED ON A HEIGHT OF
18" AT CENTER OF DITCH

SCALE

0 100 200 300 400 500

EROSION CONTROL PLANS

KELLEY ACCESS ROAD

SHEET 14 OF 14

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	77
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

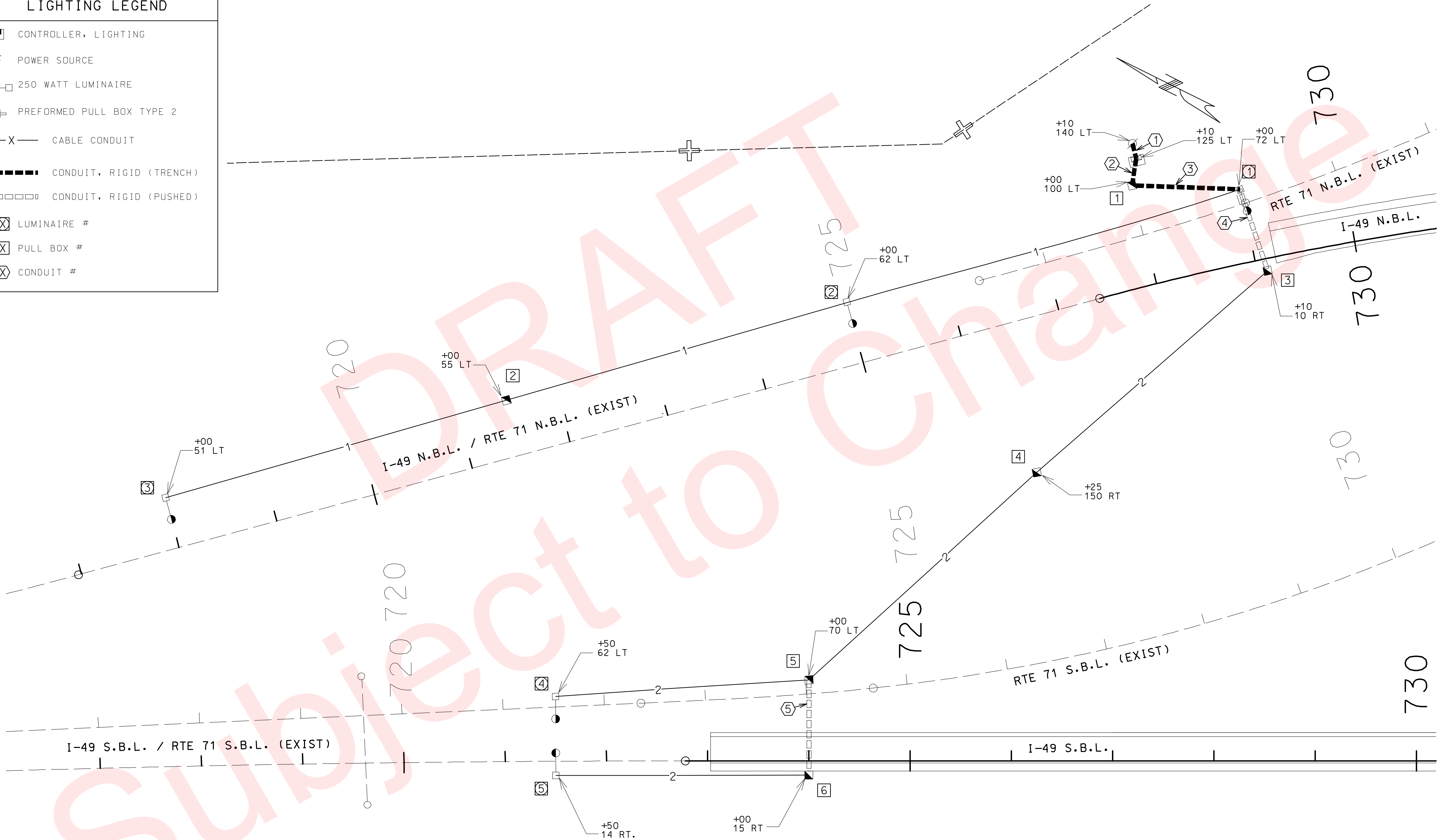
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

LIGHTING LEGEND

Symbol	Description
⧓	CONTROLLER, LIGHTING
∅	POWER SOURCE
◐—□	250 WATT LUMINAIRE
◪	PREFORMED PULL BOX TYPE 2
—X—	CABLE CONDUIT
▬ ▬ ▬	CONDUIT, RIGID (TRENCH)
□□□□□	CONDUIT, RIGID (PUSHED)
⊠	LUMINAIRE #
☒	PULL BOX #
⊗	CONDUIT #



SCALE

0 50 100 150

I-49 NBL & SBL /
EXIST. RTE 71 NBL & SBL

LIGHTING DETAILS

SHEET 1 OF 4

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 78
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

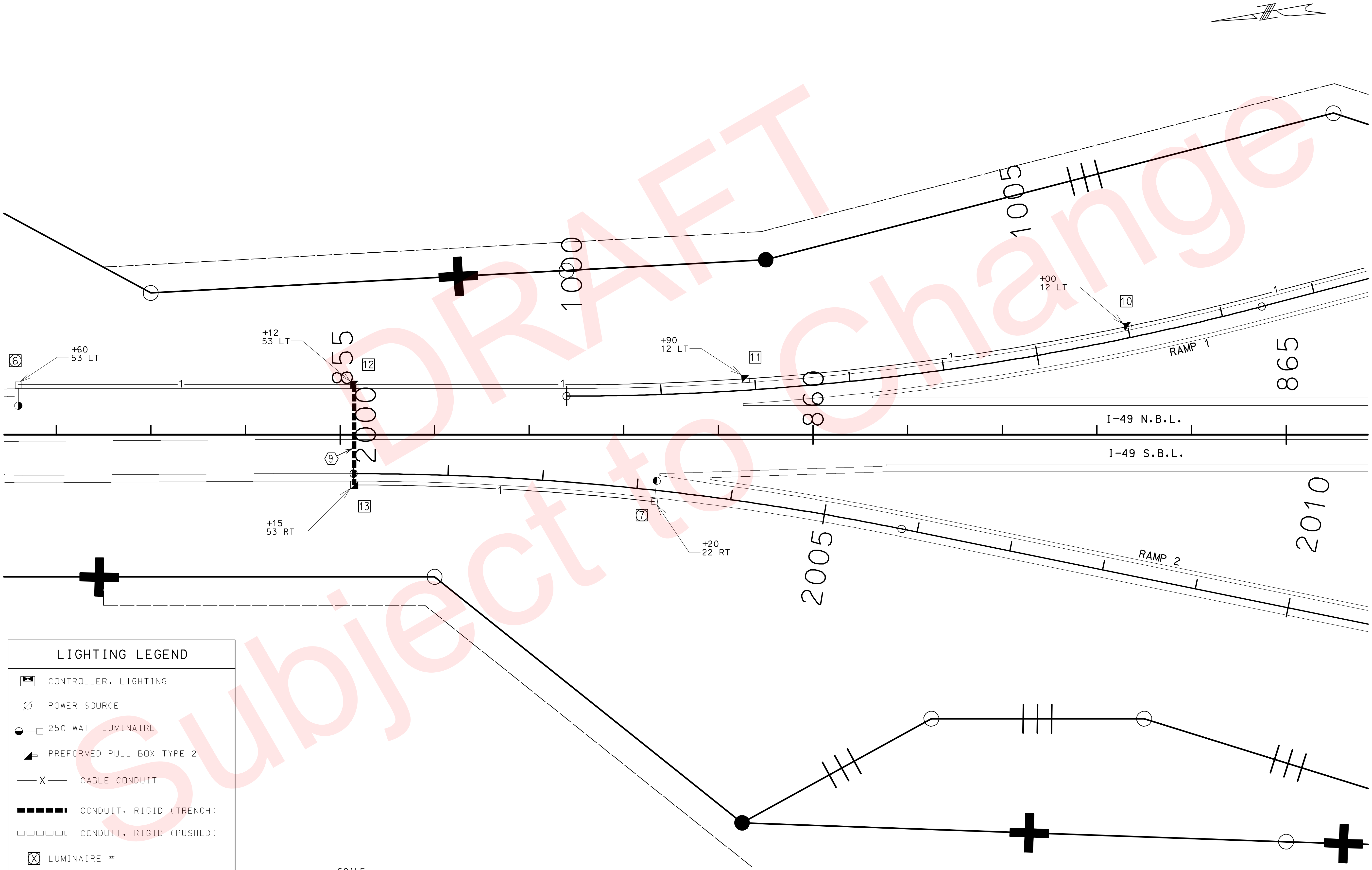
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



LIGHTING LEGEND

⧓	CONTROLLER, LIGHTING
∅	POWER SOURCE
◒—□	250 WATT LUMINAIRE
◪	PREFORMED PULL BOX TYPE 2
—X—	CABLE CONDUIT
▬▬▬	CONDUIT, RIGID (TRENCH)
▭▭▭	CONDUIT, RIGID (PUSHED)
(X)	LUMINAIRE #
[X]	PULL BOX #
⟨X⟩	CONDUIT #

SCALE

0 50 100 150

ROUTE 90 INTERCHANGE

LIGHTING DETAILS

SHEET 2 OF 4

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 79
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

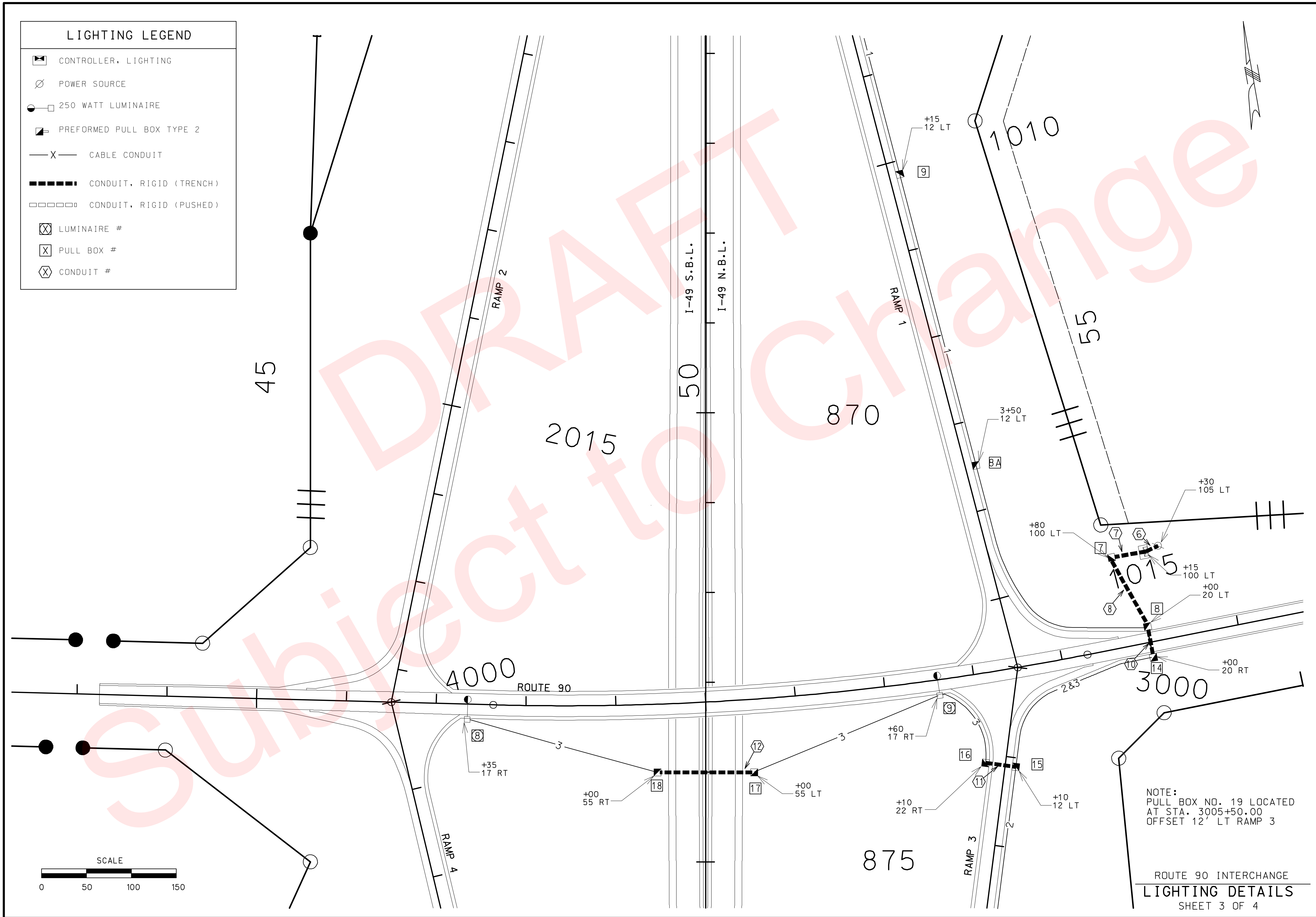
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 80
COUNTY McDONALD	
JOB NO. J7P0601	
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)

MoDOT

ROUTE 90 INTERCHANGE

LIGHTING DETAILS

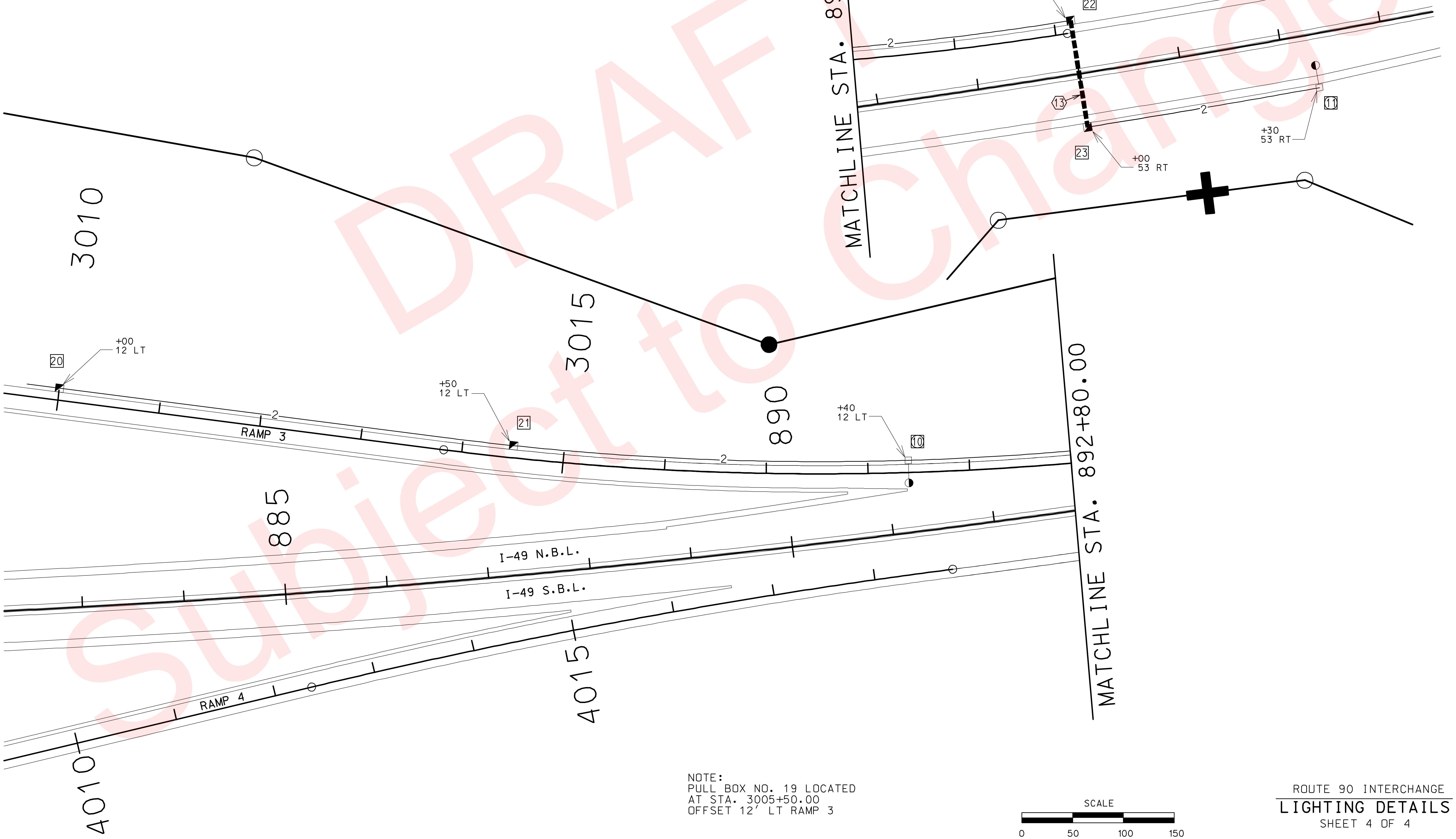
SHEET 3 OF 4

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

REV.

LIGHTING LEGEND

CONTROLLER, LIGHTING	CONDUIT, RIGID (TRENCH)
POWER SOURCE	CONDUIT, RIGID (PUSHED)
250 WATT LUMINAIRE	LUMINAIRE #
PREFORMED PULL BOX TYPE 2	PULL BOX #
—X— CABLE CONDUIT	CONDUIT #



NOTE:
PULL BOX NO. 19 LOCATED
AT STA. 3005+50.00
OFFSET 12' LT RAMP 3

SCALE
0 50 100 150

ROUTE 90 INTERCHANGE
LIGHTING DETAILS
SHEET 4 OF 4

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

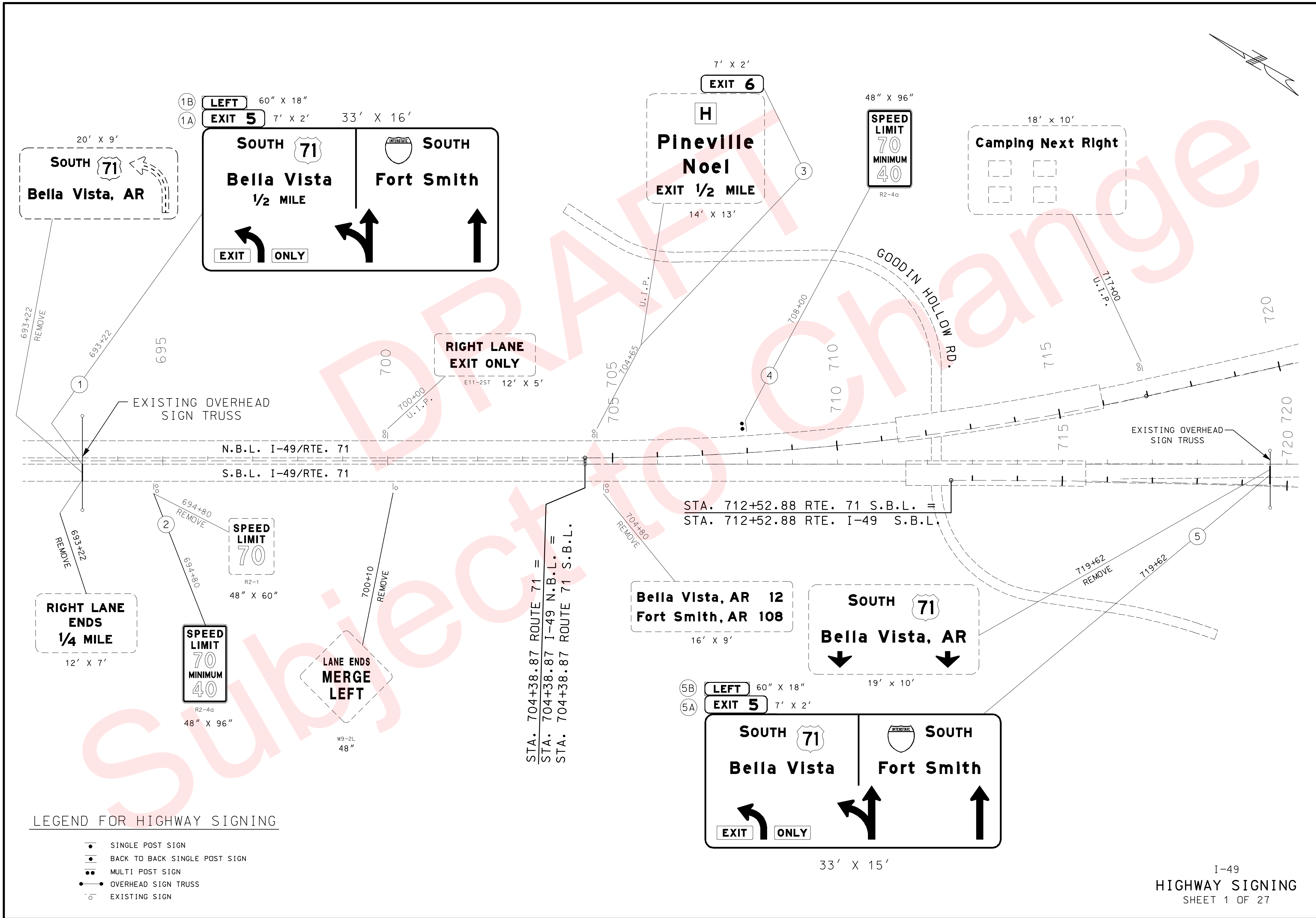
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	81
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



I-49
HIGHWAY SIGNING
SHEET 1 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 82
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

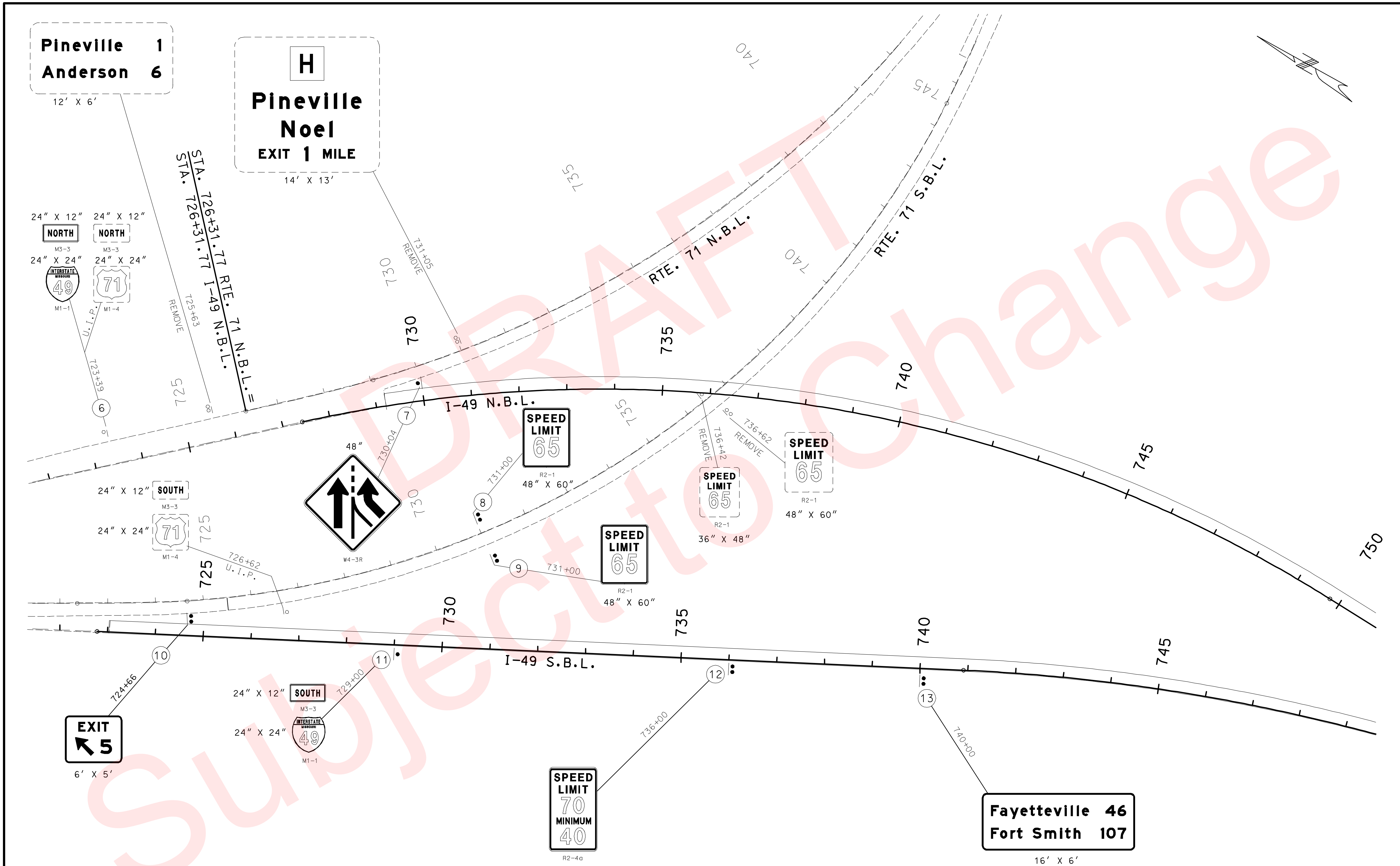
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



LEGEND FOR HIGHWAY SIGNING

- SINGLE POST SIGN
- BACK TO BACK SINGLE POST SIGN
- MULTI POST SIGN
- OVERHEAD SIGN TRUSS
- EXISTING SIGN

I-49
HIGHWAY SIGNING
SHEET 2 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 83
COUNTY McDONALD	
JOB NO. J7P0601	
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)

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

REV.

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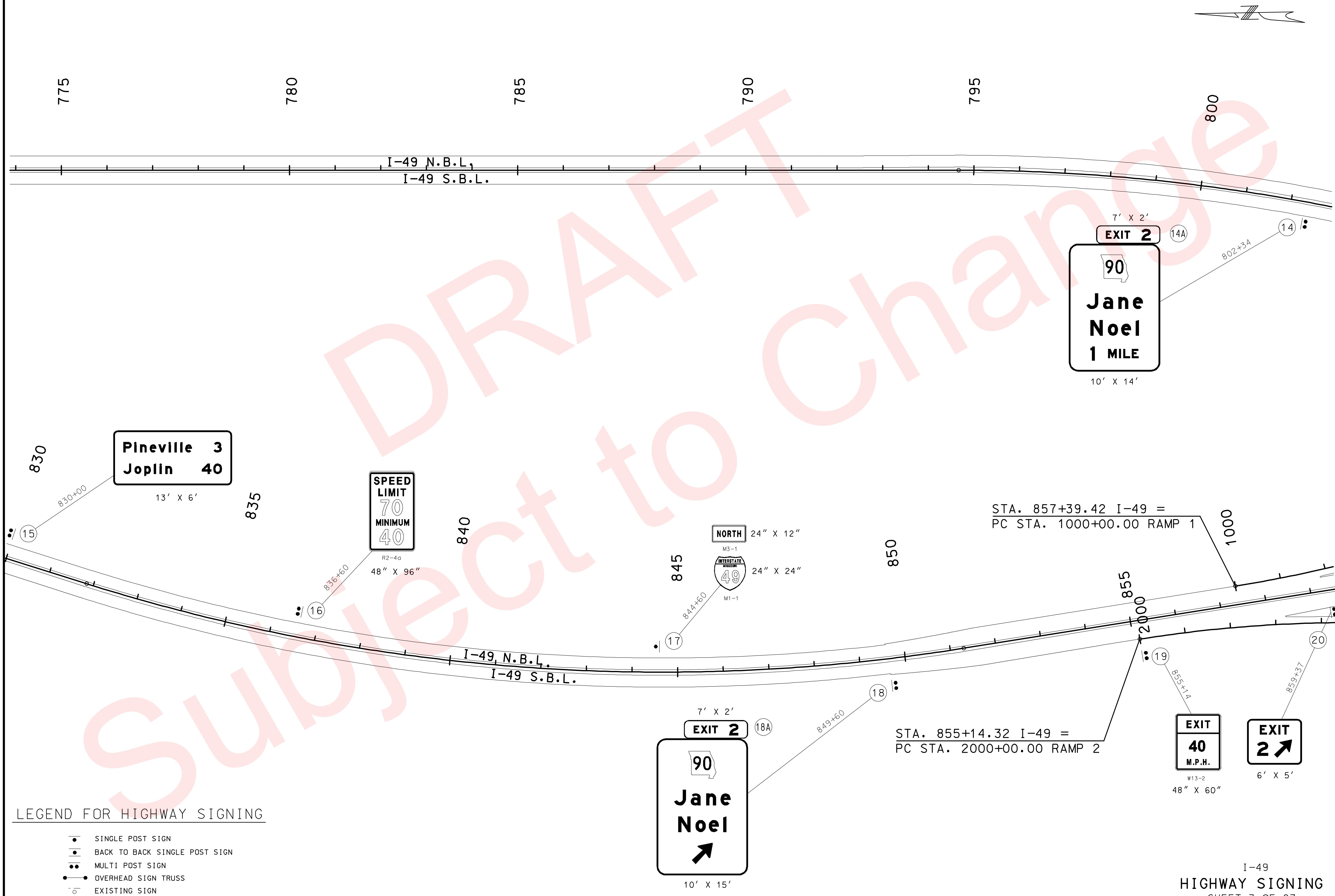


DRAFT
Subject to Change

LEGEND FOR HIGHWAY SIGNING

- SINGLE POST SIGN
- BACK TO BACK SINGLE POST SIGN
- MULTI POST SIGN
- OVERHEAD SIGN TRUSS
- EXISTING SIGN

I-49
HIGHWAY SIGNING
SHEET 3 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 84
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

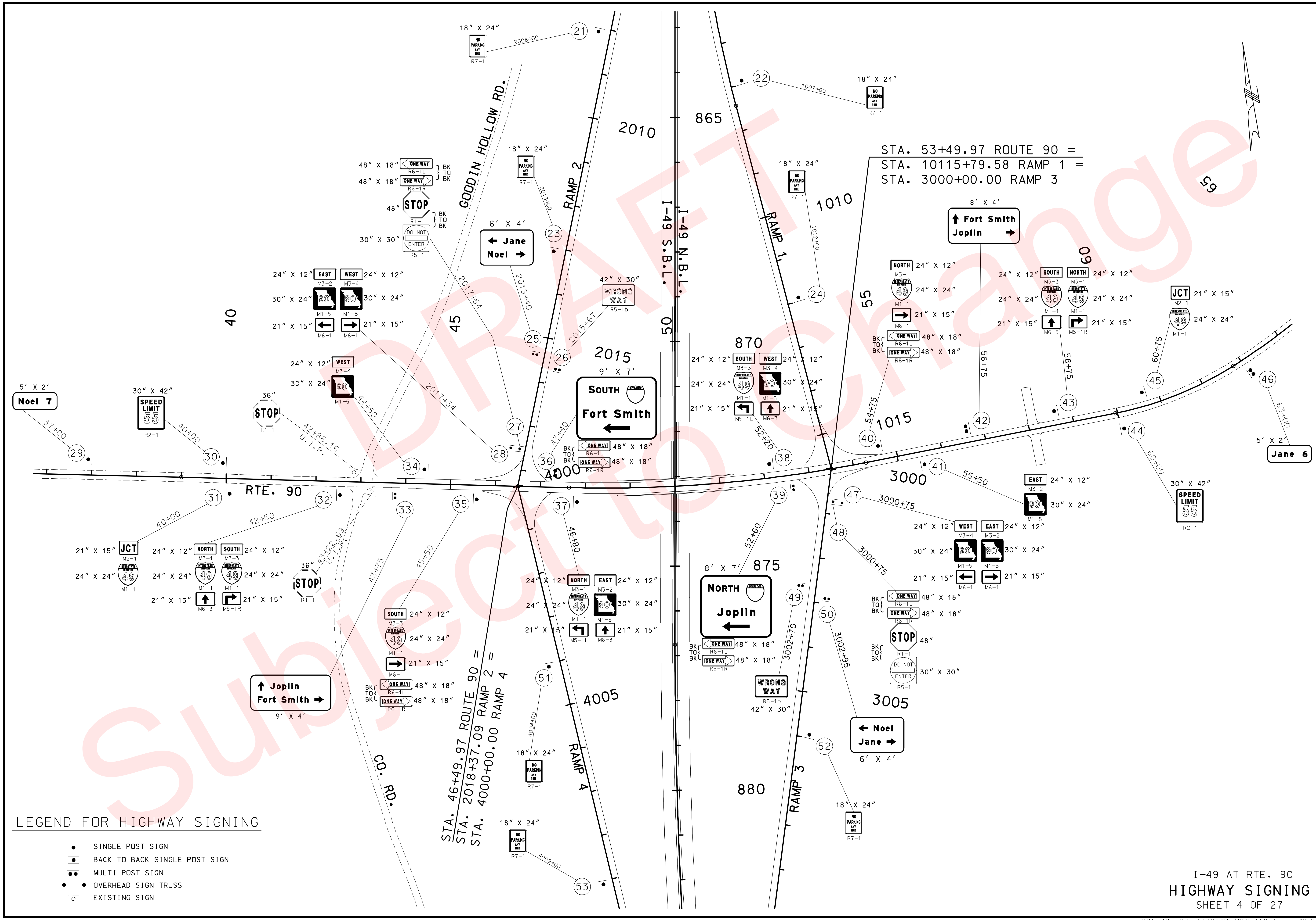
DESCRIPTION
DATE

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

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

REV.

084_SN_03_J7P0601_i100_i49.dgn 10:22:38 AM 02/04/2010



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 85
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

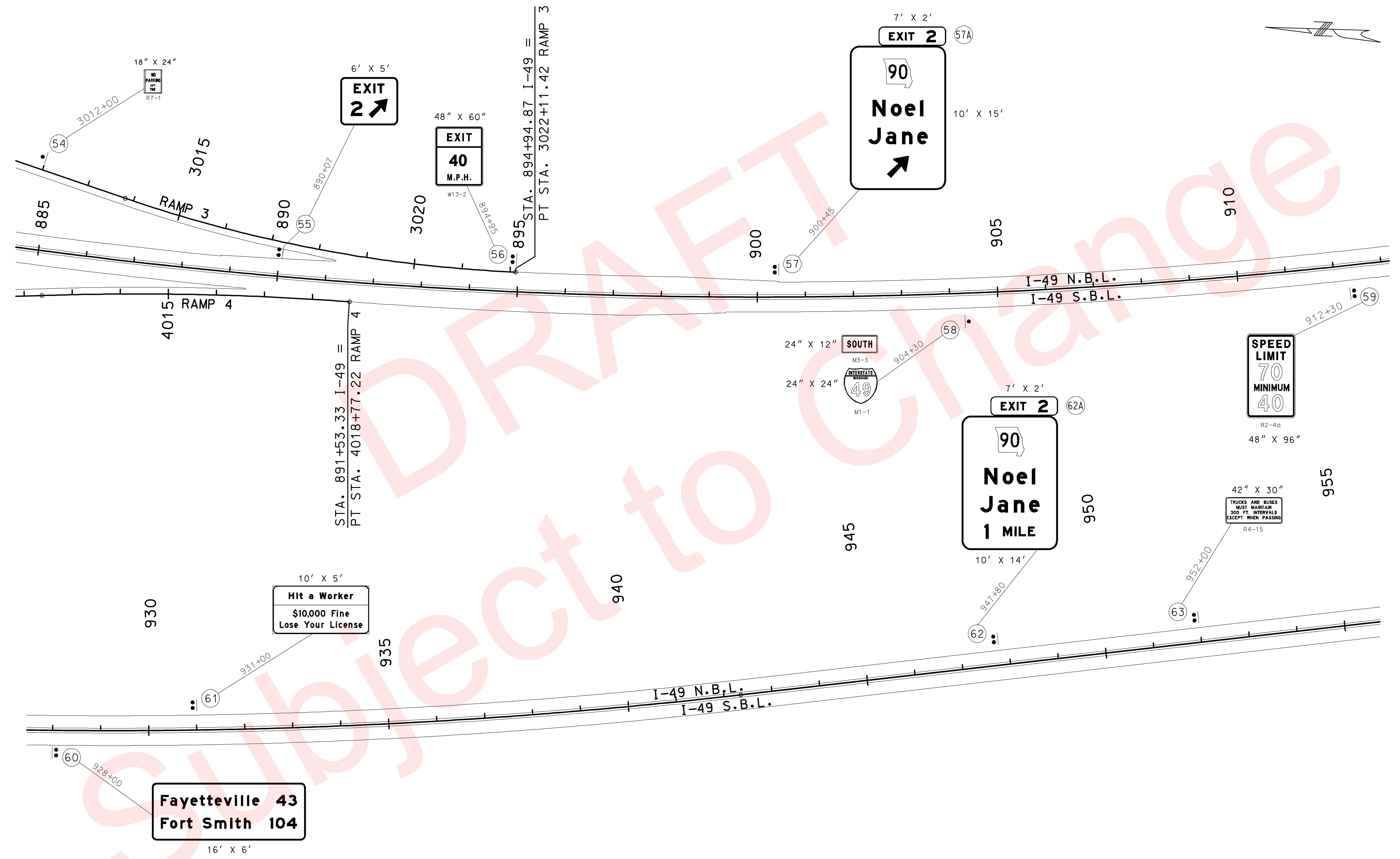
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



LEGEND FOR HIGHWAY SIGNING

- SINGLE POST SIGN
- BACK TO BACK SINGLE POST SIGN
- MULTI POST SIGN
- OVERHEAD SIGN TRUSS
- EXISTING SIGN

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	86
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

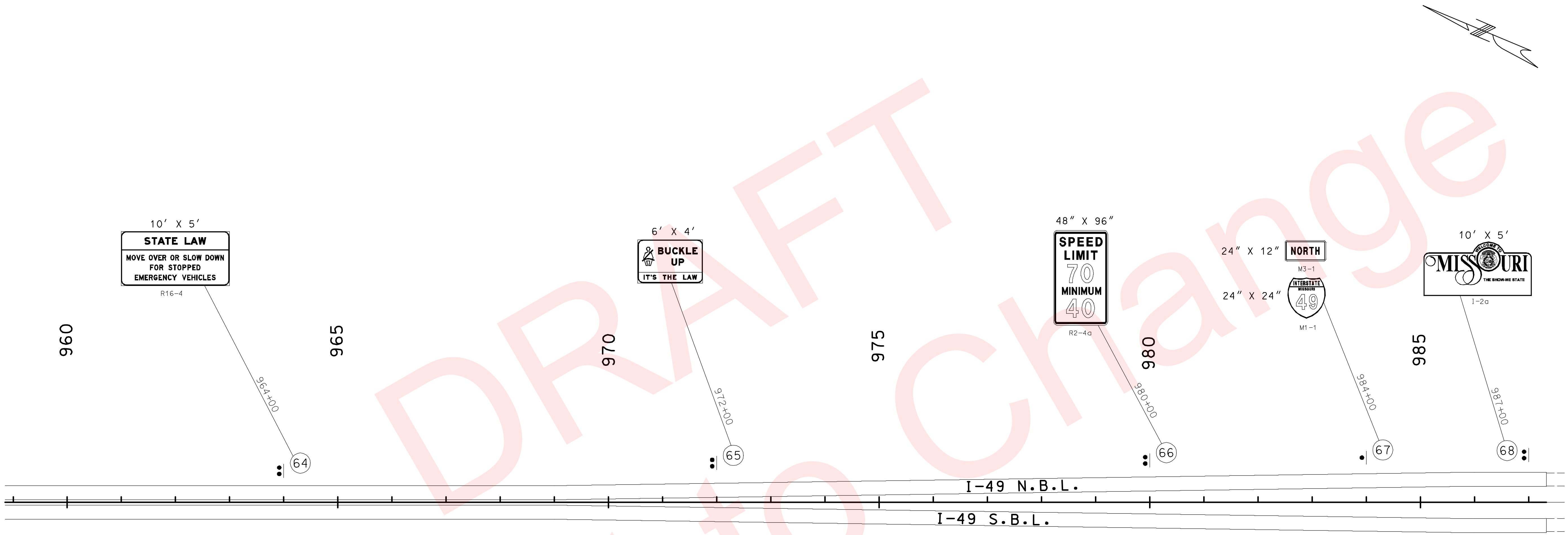
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.

I-49
HIGHWAY SIGNING
SHEET 5 OF 27



LEGEND FOR HIGHWAY SIGNING

- SINGLE POST SIGN
- BACK TO BACK SINGLE POST SIGN
- MULTI POST SIGN
- OVERHEAD SIGN TRUSS
- EXISTING SIGN

I-49
HIGHWAY SIGNING
SHEET 6 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	87
COUNTY	McDONALD
JOB NO.	J7P0601
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)

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

REV.

SIGNING
SHEET 7 OF 27

SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE POST: PIPE SIZE (IN.)	PIPE POST: POST NO. 1 (LIN FT)	PIPE POST: POST NO. 2 (LIN FT)	PIPE POST: LBS PER FT	PIPE POST: TOTAL ITEM NO. 903-12.20 (LBS)	STRUCTURAL STEEL POSTS: POST DES NO.	STRUCTURAL STEEL POSTS: POST NO. 1 (LIN FT)	STRUCTURAL STEEL POSTS: POST NO. 2 (LIN FT)	STRUCTURAL STEEL POSTS: POST NO. 3 (LIN FT)	STRUCTURAL STEEL POSTS: LBS PER FT	STRUCTURAL STEEL POSTS: TOTAL (LBS)	BACKING BARS 2″ X 3/8″ BARS @ 2.55 LBS PER LIN FT: NO. EACH	BACKING BARS: LGTH (IN.)	BACKING BARS: TOTAL (LIN FT)	BACKING BARS: TOTAL (LBS)	TOTAL ITEM NO. 903-12.10 (LBS)	U-CHANNEL POST ITEM NO. 903-12.50 (LIN FT)	WOOD POSTS 4″X4″ ITEM NO. 903-12.60 (LIN FT)	WOOD POSTS 4″X6″ ITEM NO. 903-12.61 (LIN FT)	WOOD POSTS 6″X6″ ITEM NO. 903-12.62 (LIN FT)	PERF. STEEL SQ. POSTS ITEM NO. 903-12.70 (LIN FT)	PERF. STEEL SQ. ANCHOR SLEEVE ITEM NO. 903-12.71 (LIN FT)	BREAKAWAY ASSEMBLY ITEM NO. 903-12.40 (EACH)	CONC FTG'S EMBD ITEM NO. 903-10.10 (CU YDS)	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20 (CU YDS)	HORZ CLEAR IF NOT STD
2	694+80	67	RTE 71 SBL RT	48″x96″						1	19.51	19.91		9.0	354.78					354.78							2	0.30		
4	708+00	67	I-49 NBL LT	48″x96″						1	19.57	19.97		9.0	355.86					355.86							2	0.30		
6	723+39	68	I-49 NBL LT	ASSEMBLY						1	14.45			9.0	130.05					130.05							1	0.15		
7	730+04	68	I-49 NBL LT	48″	4	17.47		10.79	188.50																		1	0.36		
8	731+00	68	RTE 71 SBL LT	48″x60″	2½	18.38	18.78	5.79	215.16																		2	0.26		
9	731+00	68	RTE 71 SBL RT	48″x60″	2½	16.98	17.38	5.79	198.94																		2	0.26		
10	724+66	68	I-49 SBL LT	6′x5′						1	15.40	15.09		9.0	274.41					274.41							2	0.30		
11	729+00	68	I-49 SBL RT	ASSEMBLY	2½	15.29		5.79	88.53																		1	0.13		
12	736+00	68	I-49 SBL RT	48″x96″						1	18.96	19.36		9.0	344.88					344.88							2	0.30		
13	740+00	68	I-49 SBL RT	16′X6′						2	18.86	20.46		15.0	589.80					589.80							2	1.00		
14	802+34	69	I-49 SBL RT	10′x14′						4	27.81	30.97		22.0	1293.16					1293.16							2	2.72		
14A	802+34	69	ABOVE SIGN 14	7′x2′																										
15	830+00	69	I-49 NBL LT	13′x6′						2	18.76	20.06		15.0	582.30					582.30							2	1.00		
16	836+60	69	I-49 NBL LT	48″x96″						1	19.19	19.59		9.0	349.02					349.02							2	0.30		
17	844+60	69	I-49 NBL LT	ASSEMBLY	2½	15.36		5.79	88.93																		1	0.13		
18	849+60	69	I-49 SBL RT	10′X15′						5	27.93	31.09		26.0	1534.52					1534.52							2	2.74		
18A	849+60	69	ABOVE SIGN 18	7′x2′																										
19	855+14	69	I-49 SBL RT	48″x60″	2½	17.26	17.66	5.79	202.19																		2	0.26		
20	859+37	69	I-49 SBL RT	6′x5′						1	15.82	16.04		9.0	286.74					286.74							2	0.30		
21	2008+00	70	RAMP 2	18″x24″																					10.80	3.18				
22	1007+00	70	RAMP 1	18″x24″																					10.99	3.18				
23	2013+00	70	RAMP 2	18″x24″																					10.80	3.18				
24	1012+00	70	RAMP 1	18″x24″																					10.99	3.18				
25	2015+40	70	RAMP 2	6′x4′	3	16.81	17.42	7.58	259.46																		2	0.26		
26	2015+67	70	RAMP 2	42″x30″	2½	15.00		5.79	86.85																		1	0.13		8′
27	2017+54	70	RAMP 2	ASSEMBLY	4	18.95		10.79	204.47							6	32	16.00	40.80	40.80							1	0.36		
28	2017+54	70	RAMP 2	ASSEMBLY						1	16.19			9.0	145.71	6	50	25.00	63.75	209.46							1	0.15		10.6′
29	37+00	70	RTE. 90 LT	5′x2′	2½	14.06	13.54	5.79	159.80																		2	0.26		
30	40+00	70	RTE. 90 LT	30″x42″	3	15.02		7.58	113.85																		1	0.13		
31	40+00	70	RTE. 90 RT	ASSEMBLY	2½	16.34		5.79	94.61																		1	0.13		
32	42+50	70	RTE. 90 RT	ASSEMBLY						1	14.35			9.0	129.15	5/1	50/35	23.75	60.56	189.71							1	0.16		
33	43+75	70	RTE. 90 RT	9′x4′						1	17.25	18.58		9.0	322.47					322.47							2	0.30		10.5′
34	44+50	70	RTE. 90 LT	ASSEMBLY	2½	15.71		5.79	90.96																		1	0.13		11.5′
35	45+50	70	RTE. 90 RT	ASSEMBLY						1	15.67			9.0	141.03	4	32	10.67	27.20	168.23							1	0.17		10.5′
36	47+40	70	RTE. 90 LT	9′x7′						2	22.17	21.66		15.0	657.45	4	32	10.67	27.20	684.65							2	1.02		10′
37	46+80	70	RTE. 90 RT	ASSEMBLY						1	15.23			9.0	137.07	5/1	50/42.5	24.38	62.16	199.23							1	0.16		10′
38	52+20	70	RTE. 90 LT	ASSEMBLY						1	15.75			9.0	141.75	5/1	50/42.5	24.38	62.16	203.91							1	0.16		10′
39	52+60	70	RTE. 90 RT	8′x7′						2	22.10	23.31		15.0	681.15	4	32	10.67	27.20	708.35							2	1.02		10′
40	54+75	70	RTE. 90 LT	ASSEMBLY						1	17.54			9.0	157.86	4	32	10.67	27.20	185.06							1	0.17		10.5′
41	55+50	70	RTE. 90 RT	ASSEMBLY	2½	15.46		5.79	89.51																		1	0.13		12′
42	56+75	70	RTE. 90 LT	8′x4′						1	17.10	18.02		9.0	316.08					316.08							2	0.33		10′
43	58+75	70	RTE. 90 LT	ASSEMBLY						1	15.27			9.0	137.43	5/1	50/35	23.75	60.56	197.99							1	0.17		11′
44	60+00	70	RTE. 90 RT	30″x42″	3	17.24		7.58	130.68																		1	0.13		10′
45	60+75	70	RTE. 90 LT	ASSEMBLY	2½	17.01		5.79	98.49																		1	0.13		10′
46	63+00	70	RTE. 90 RT	5′x2′	2½	16.72	16.39	5.79	191.71																		2	0.26		
47	3000+75	70	RAMP 3 LT	ASSEMBLY						1	16.24			9.0	146.16	6	50	25.00	63.75	209.91							1	0.15		10.6′
48	3000+75	70	RAMP 3 LT	ASSEMBLY	4	18.99		10.79	204.90							6	32	16.00	40.80	40.80							1	0.36		
49	3002+70	70	RAMP 3 RT	42″x30″	2½	15.00		5.79	86.85																		1	0.13		8′
50	3002+95	70	RAMP 3 LT	6′x4′	3	16.50	18.23	7.58	263.25																		2	0.26		
51	4004+00	70	RAMP 4 RT	18″x24″																					10.84	3.18				
52	3006+00	70	RAMP 3 LT	18″x24″																					10.28	3.18				
53	4009+00	70	RAMP 4 RT	18″x24″																					10.84	3.18				
54	3012+00	71	RAMP 3 LT	18″x24″																					10.28	3.18				
55	890+07	71	I-49 NBL LT	6′x5′						1	16.06	15.69		9.0	285.75					285.75							2	0.34		
56	894+95	71	I-49 NBL LT	48″x60″	2½	17.26	17.66	5.79	202.19																		2	0.26		
57	900+45	71	I-49 NBL LT	10′x15′						5	28.61	31.78		26.0	1570.14					1570.14							2	2.74		
57A	900+45	71	ABOVE SIGN 57	7′x2′																										
58	904+30	71	I-49 SBL RT	ASSEMBLY	2½	15.29		5.79	88.53																		1	0.13		
59	912+30	71	I-49 SBL RT	48″x96″						1	19.46	19.86		9.0	353.88					353.88							2	0.30		
60	928+00	71	I-49 SBL RT	16′x6′						2	18.86	20.46		15.0	589.80					589.80							2	1.00		
61	931+00	71	I-49 NBL LT	10′x5′						1	16.66	17.66		9.0	308.88					308.88							2	0.30		
					SUB-TOTAL				3348.36						12317.28				563.34	12880.62					85.82	25.44	77	22.68		

DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.

SIGN LOCATION	3″ ALUM. I-BEAM	6″ ALUM. I-BEAM
1, 1A, 1B	XX	XX
5, 5A, 5B	XX	XX
14A	5′	
18A	5′	
57A	5′	
62A	5′	
TOTAL	20′	XX

NO DIRECT PAY FOR ALUMUMINUM BEAMS

CHANNEL POST DELINEATORS

LOCATION	WHITE	AMBER	WHITE DOUBLE STACKED	WHITE/ RED	AMBER/ RED
RAMP 1	8	4	13		
RAMP 2	1		6	18	4
RAMP 3	1		6	4	4
RAMP 4	20	4	8		
TOTAL	30	8	33	22	8

NO DIRECT PAY FOR GUARDRAIL DELINEATORS:

RAMP 1	4 WHITE
RAMP 3	18 WHITE/RED

DATE PREPARED 02/04/2010
ROUTE 49 | STATE MO
DISTRICT 7 | SHEET NO. 88
COUNTY McDONALD
JOB NO. J7P0601
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)

REV.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

SIGNING

SIGNS					PIPE POST					STRUCTURAL STEEL POSTS						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL ITEM NO. 903-12.10	U-CHANNEL POST ITEM NO. 903-12.50	WOOD POSTS			PERF. STEEL SQ.		BREAKAWAY ASSEMBLY ITEM NO. 903-12.40	CONC FTG'S EMBD ITEM NO. 903-10.10	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20	HORZ CLEAR IF NOT STD	DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.
SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 903-12.20	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	NO. EACH	LGTH	TOTAL	TOTAL			4"X4" ITEM NO. 903-12.60	4"X6" ITEM NO. 903-12.61	6"X6" ITEM NO. 903-12.62	POSTS ITEM NO. 903-12.70	ANCHOR SLEEVE ITEM NO. 903-12.71					
					IN.	LIN FT	LIN FT		LBS		LIN FT	LIN FT	LIN FT		LBS		IN.	LIN FT	LBS	LBS	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	CU YDS	CU YDS		
62	947+80	71	I-49 NBL LT	10'x14'						4	27.81	30.97		22.0	1293.16					1293.16							2	2.72			
62A	947+80	71	ABOVE SIGN 62	7'x2'																											
63	952+00	71	I-49 NBL LT	42"x30"	2½	14.91		5.79	86.33																		1	0.13			
64	964+00	72	I-49 NBL LT	10'x5'						1	16.66	17.66		9.0	308.88					308.88							2	0.30			
65	972+00	72	I-49 NBL LT	6'x4'	3	16.54	17.16	7.58	255.45																		2	0.26			
66	980+00	72	I-49 NBL LT	48"x96"						1	19.19	19.59		9.0	349.02					349.02							2	0.30			
67	984+00	72	I-49 NBL LT	ASSEMBLY	2½	14.29		5.79	82.74																		1	0.13			
68	987+00	72	I-49 NBL LT	10'x5'						1	15.69	18.69		9.0	309.42					309.42							2	0.34			
						TOTAL			3772.88						14577.76				563.34	15141.10					85.82	25.44	89.0	26.94			
						USE			3780.0											15150.0					86.0	26.0	89.0	27.0			

DATE PREPARED 02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 89
COUNTY McDONALD
JOB NO. J7P0601
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)

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

REV.

D-29

SIGNING
SHEET 9 OF 27

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STA.	LOCATION	R1-1 STOP 48"	R2-1 SPEED LIMIT 55 30"x42"	R2-1 SPEED LIMIT 65 48"x60"	R2-4a SPEED LIMIT 70 MINIMUM 40 48"x96"	R4-15 TRUCKS AND BUSES MUST MAINTAIN 300 FT. INTERVALS EXCEPT WHEN PASSING 42"x30"	R5-1 DO NOT ENTER 30"x30"	R5-1a WRONG WAY 42"x30"	R6-1L ONE WAY 48"x18"	R6-1R ONE WAY 48"x18"	R7-1 NO PARKING ANY TIME 18"x24"	R16-4 STATE LAW 10'x5'	M1-1 49 24"x24"	M1-6 90 24"x24"	M2-1 JCT 21"x15"	M3-1 NORTH 24"x12"	M3-2 EAST 24"x12"	M3-3 SOUTH 24"x12"	M3-4 WEST 24"x12"	M5-1L 21"x15"	M5-1R 21"x15"	M6-1 21"x15"	M6-3 21"x15"	W4-3R 48"	W13-2 EXIT 40 M.P.H. 48"x60"	I2-4 MISSOURI 10'x5'
1B	693+22	I-49, ON TRUSS																									
2	694+80	I-49 S.B.L. RT				1																					
4	708+00	I-49 N.B.L. LT				1																					
5B	719+62	I-49, ON TRUSS																									
6	723+39	I-49 N.B.L. LT												1			1										
7	730+04	I-49 N.B.L. LT																							1		
8	731+00	RTE. 71 S.B.L. LT			1																						
9	731+00	RTE. 71 S.B.L. RT			1																						
11	723+39	I-49 S.B.L. RT												1													
12	736+00	I-49 S.B.L. RT																	1								
16	836+60	I-49 LT				1																					
17	844+60	I-49 LT												1			1										
19	855+14	I-49 RT																								1	
21	2008+00	RAMP 2 RT										1															
22	1007+00	RAMP 1 LT										1															
23	2013+00	RAMP 2 RT										1															
24	1012+00	RAMP 1 LT										1															
26	2015+67	RAMP 2 LT							1																		
27	2017+54	RAMP 2 RT	1					1		1	1																
28	2017+54	RAMP 2 RT													2			1		1			2				
30	40+00	RTE. 90 LT		1																							
31	40+00	RTE. 90 RT												1		1											
32	42+50	RTE. 90 RT												2			1		1			1		1			
34	44+50	RTE. 90 LT													1					1							
35	45+50	RTE. 90 RT								1	1			1					1				1				
36	47+40	RTE. 90 LT								1	1																
37	46+80	RTE. 90 RT												1	1		1	1			1			1			
38	52+20	RTE. 90 LT												1	1				1	1	1			1			
39	52+60	RTE. 90 RT								1	1																
40	54+75	RTE. 90 LT								1	1			1			1						1				
41	55+50	RTE. 90 RT													1			1									
43	58+75	RTE. 90 LT												2			1		1			1		1			
44	60+00	RTE. 90 RT		1																							
45	60+75	RTE. 90 LT												1		1											
47	3000+75	RAMP 3 LT													2			1		1			2				
48	3000+75	RAMP 3 LT	1					1		1	1																
49	3002+70	RAMP 3 RT							1																		
51	4004+00	RAMP 4 RT										1															
52	3006+00	RAMP 3 LT										1															
53	4009+00	RAMP 4 RT										1															
54	3012+00	RAMP 3 LT										1															
56	894+95	I-49 LT																								1	
58	904+30	I-49 RT												1					1								
59	912+30	I-49 RT				1																					
61	931+00	I-49 LT																									
63	952+00	I-49 LT					1																				
64	964+00	I-49 LT											1														
65	972+00	I-49 LT																									
66	980+00	I-49 LT				1																					
67	984+00	I-49 LT												1			1										
68	987+00	I-49 LT																									1
		TOTALS	2	2	2	5	1	2	2	6	6	8	1	15	8	2	7	4	6	4	2	2	6	4	1	2	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN	SIGN DETAIL SHEET NO.	NO. EACH	SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	STR2L-3 ITEM NO. 903-50.11	36" STOP EACH
27, 48	STOP	STD.	2	48"x48"	32.00				
30, 44	SPEED LIMIT 55	STD.	2	30"x42"	17.50				
8, 9	SPEED LIMIT 65	STD.	2	48"x60"	40.00				
2, 4, 16, 59, 66	SPEED LIMIT 70 MINIMUM 40	STD.	5	48"x96"	160.00				
63	TRUCKS AND BUSES MUST MAINTAIN 300 FT. INTERVALS EXCEPT WHEN PASSING	STD.	1	42"x30"	8.75				
27, 48	DO NOT ENTER	STD.	2	30"x30"	12.50				
26, 49	WRONG WAY	STD.	2	42"x30"	17.50				
27, 35, 36, 39, 40, 48	ONE WAY	STD.	6	48"x18"	36.00				
27, 35, 36, 39, 40, 48	ONE WAY	STD.	6	48"x18"	36.00				
21, 22, 23, 24, 51, 52, 53, 54	NO PARKING ANY TIME	STD.	8	18"x24"	24.00				
64	STATE LAW MOVE OVER OR SLOW DOWN FOR STOPPED EMERGENCY VEHICLES	STD.	1	10'x 5'				50.00	
61	It's Worth It! $10,000 Fine Lose Your License	D-31	1	10'x 5'				50.00	
65	BUCKLE UP IT'S THE LAW	D-31	1	6'x4'				24.00	
6, 11, 17, 31, 32, 35, 37, 38, 40, 43, 45, 58, 67	49	STD.	15	24"x24"	60.00				
28, 34, 37, 38, 41, 47	90	STD.	8	24"x24"	32.00				
31, 45	JCT	STD.	2	21"x15"	4.38				
6, 17, 32, 37, 40, 43, 67	NORTH	STD.	7	24"x12"	14.00				
28, 37, 41, 47	EAST	STD.	4	24"x12"	8.00				
12, 32, 35, 38, 43, 58	SOUTH	STD.	6	24"x12"	12.00				
28, 34, 38, 47	WEST	STD.	4	24"x12"	8.00				
37, 38		STD.	2	21"x15"	4.38				
32, 43		STD.	2	21"x15"	4.38				
28, 35, 40, 47		STD.	6	21"x15"	13.13				
32, 37, 38, 43		STD.	4	21"x15"	8.75				
7		STD.	1	48"	16.00				
19	EXIT 40 M.P.H.	STD.	2	48'x60"	40.00				
68	MISSOURI	STD.	1	10'x5'				50.00	
1B, 5B	LEFT	D-31	2	60"x18"				15.00	
				SUB-TOTAL	609.27			189.00	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

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

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	90
COUNTY	McDONALD
JOB NO.	J7P0601
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)

SIGNING
SHEET 10 OF 27

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE / SIGN DESCRIPTION, SIZES & NUMBER OF EACH

SIGN SUMMARY

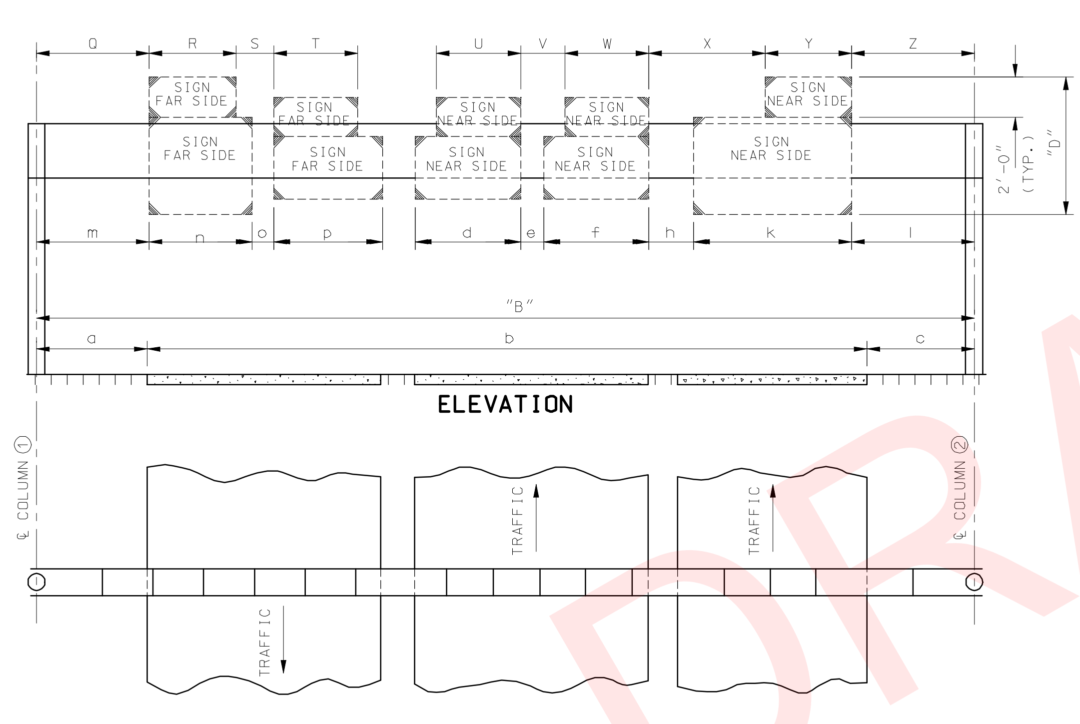
STANDARD SIGN OR SPECIAL SIGN NUMBER		SIGN DETAIL SHEET NO.	NO. EACH	SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	STR2L-3 ITEM NO. 903-50.11	36″ STOP EACH
1A, 5A	EXIT 5	D-31	2	7′x2′				28.00	
1	SOUTH 71 Bella Vista ½ MILE EXIT ONLY / SOUTH Fort Smith	D-31	1	33′x16′				528.00	
5	SOUTH 71 Bella Vista EXIT ONLY / SOUTH Fort Smith	D-31	1	33′x15′				495.00	
20, 55	EXIT 2	D-31	2	6′x5′				60.00	
10	EXIT 5	D-31	1	6′x5′				30.00	
14A, 18A, 43A, 48A	EXIT 2	D-31	4	7′x2′				56.00	
62	90 Noel Jane 1 MILE	D-31	1	10′x14′				140.00	
29	Noel 7	D-31	1	5′x2′				10.00	
46	Jane 6	D-31	1	5′x2′				10.00	
42	Fort Smith / Jopiin	D-31	1	8′x4′				32.00	
33	Jopiin / Fort Smith	D-31	1	9′x4′				36.00	
15	Pineville 3 / Jopiin 40	D-31	1	13′x6′				78.00	
50	Noel / Jane	D-31	1	6′x4′				24.00	
25	Jane / Noel	D-31	1	6′x4′				24.00	
60	Fayetteville 43 / Fort Smith 104	D-31	1	16′x6′				96.00	
13	Fayetteville 46 / Fort Smith 107	D-31	1	16′x6′				96.00	
18	90 Jane Noel	D-31	1	10′x15′				150.00	
57	90 Noel Jane	D-31	1	10′x15′				150.00	
14	90 Jane Noel 1 MILE	D-31	1	10′x14′				140.00	
36	SOUTH Fort Smith	D-31	1	9′x7′				63.00	
39	NORTH Jopiin	D-31	1	8′x7′				56.00	
3	EXIT 6	D-31	1	7′x2′				14.00	
				TOTAL	609.27			2505.00	
				USE	610.0			2505.00	

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

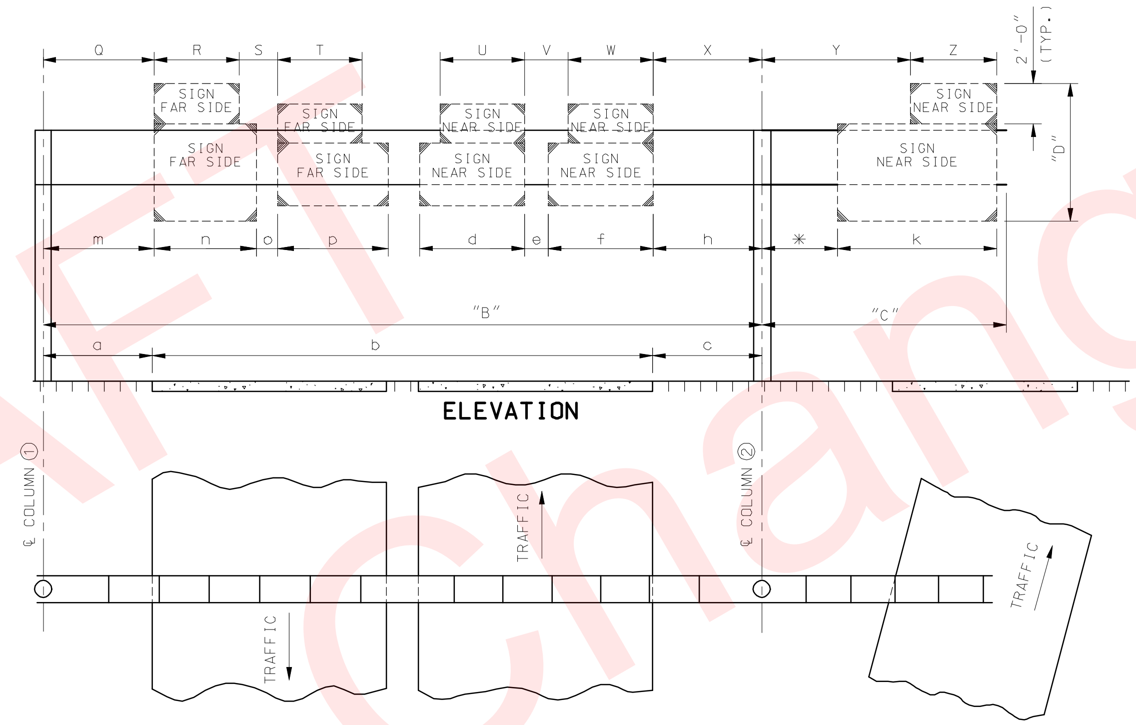
DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 91
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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



DIMENSIONS
TYPE 'B' SIGN BRIDGE



DIMENSIONS
TYPE 'BC' SIGN BRIDGE

NOTE: ABOVE MINIMUMS ARE RECOMMENDED DIMENSIONS.

✻ MINIMUM = 6'-0" WHEN ALUMINUM IS USED.

SIGN BRIDGE DIMENSIONS

SIGN NO.	STATION NUMBER	TRUSS DESCRIPTION					ROADWAY DESCRIPTION			"D"	SIGN SPACING															COLUMN DATA				
					CHORD						NEAR SIDE									FAR SIDE						COLUMN 1		COLUMN 2		CONCRETE FOOTINGS (CU. YD.)
		Type	"B"	"C"	ALUM.	STEEL	a	b	c		d	Ht.	e	f	Ht.	h	k	Ht.	l	m	n	Ht.	o	p	Ht.	H	TYPE	H	TYPE	
1	693+22	B	146.5		6x$\frac{5}{16}$	6x6x$\frac{3}{4}$	30.25	86.00	30.25	19.5	33	19.5														25.50	IV	25.50	IV	36.2
5	719+62	B	107.5		4$\frac{1}{2}$x$\frac{1}{4}$	5x5x$\frac{1}{2}$	43.75	49.00	14.92	18.5	33	18.5														28.08	III	23.33	III	30.4

SIGN BRIDGE DIMENSIONS

SIGN NO.	STATION NUMBER	TRUSS DESCRIPTION					ROADWAY DESCRIPTION			"D"	SIGN SPACING											
					CHORD						NEAR SIDE							FAR SIDE				
		Type	"B"	"C"	ALUM.	STEEL	a	b	c		U	V	W	X	Y	Z		Q	R	S	T	
1A	693+22										7.0											
1B	693+22										5.0											
5A	719+62										7.0											
5B	719+62										5.0											

OVERHEAD SIGN TRUSSES
STRUCTURAL STEEL OR ALUMINUM

DATA SHEET
(SEE STANDARD 903.10 OR 903.60)

GENERAL NOTES

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - 1985 AND LATEST INTERIM.

BASIC ASSUMPTIONS: WIND VELOCITY = 70 mph. WIND PRESSURE ON SIGN AREA = 27 psf. ICE LOAD = 3 psf.

STRUCTURAL ALUMINUM STRESS = 10,000 psi.

STRUCTURAL CARBON STEEL (ASTM A709 GRADE 36) fs = 20,000 psi.

REINFORCING STEEL (GRADE 40) fs= 20,000 psi.

CLASS B CONCRETE fc = 1,200 psi.

ALLOWABLE SOIL PRESSURE = 2,750 psf.

ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 17'-6".

MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.

TRUSS SHALL BE ALL WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE A.W.S. D1.2 BRIDGE WELDING CODE AS AMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.S. D1.2 STRUCTURAL WELDING CODE - ALUMINUM, EXCEPT AS AMENDED BY SECTION 903 OF THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL ALUMINUM FILLET WELDS SHALL BE $\frac{3}{16}$" UNLESS OTHERWISE SHOWN.

COATING: ALL COLUMNS SHALL BE GALVANIZED AS PER AASHTO M 111. ALL STRUCTURAL STEEL (EXCEPT THE COLUMNS) SHALL BE CLEANED AND COATED WITH SYSTEM G IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTIONS 712.12 AND 903.3.4. COLOR OF THE FINISHED COAT SHALL BE GRAY.

PAYMENT FOR GALVANIZING, CLEANING AND COATING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SIGN TRUSS. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF COATING PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.

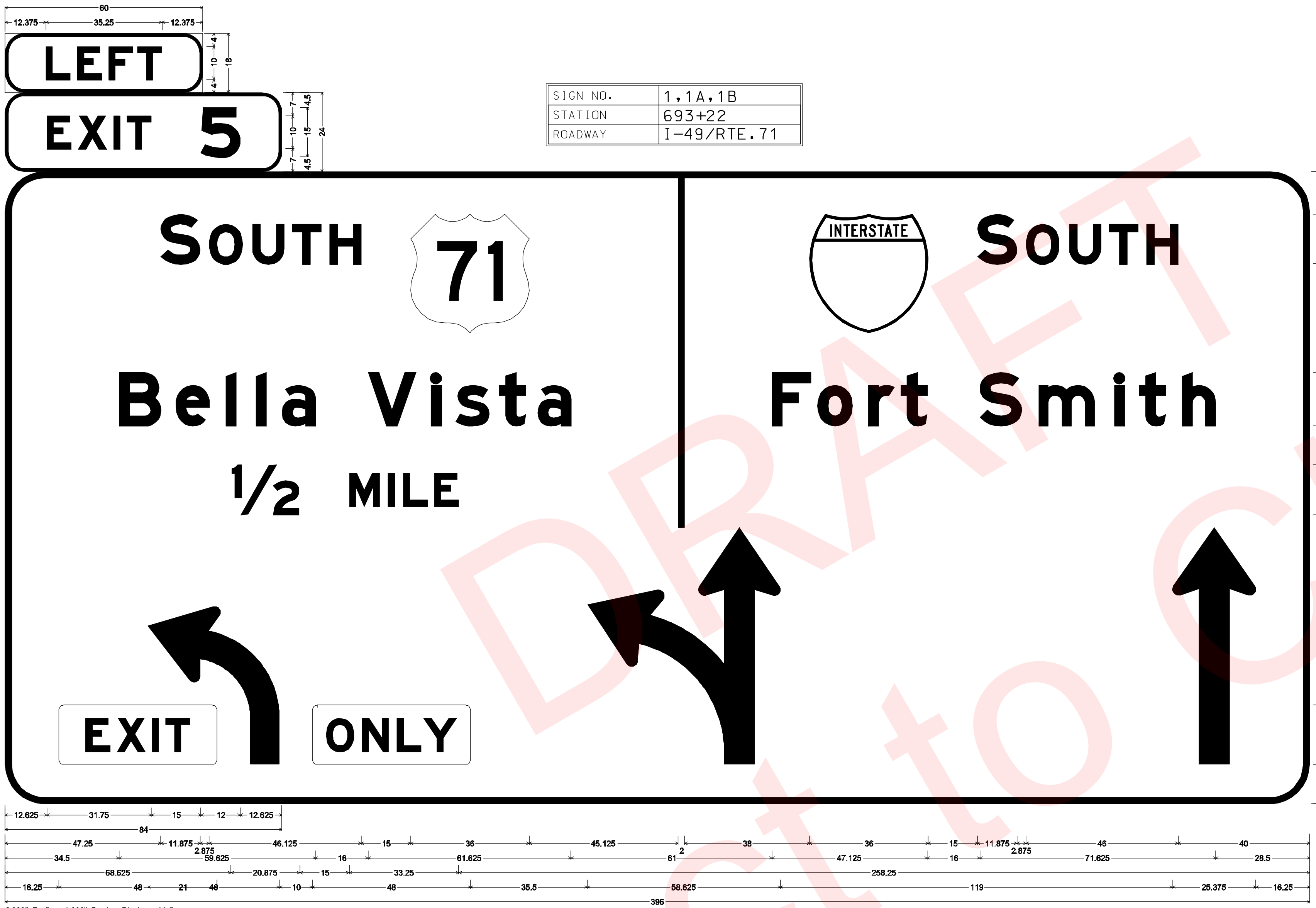
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 92
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

SIGN NO.	1,1A,1B
STATION	693+22
ROADWAY	I-49/RTE.71



6.000" Radius, 1.000" Border, Black on Yellow;
[LEFT] E Mod;
6.000" Radius, 1.000" Border, White on Green;
[EXIT 5] E Mod;
12.000" Radius, 2.000" Border, White on Green;
[ ] E Mod; [SOUTH] E Mod; [Bella Vista] E Mod; [½] E Mod; [MILE] E Mod; [SOUTH] E Mod; [Fort Smith] E Mod;
Table of letter and object lefts.

L	E	F	T
12.375	21.875	31.375	40.125

E	X	I	T	5
12.625	22.125	32.875	37.000	59.375

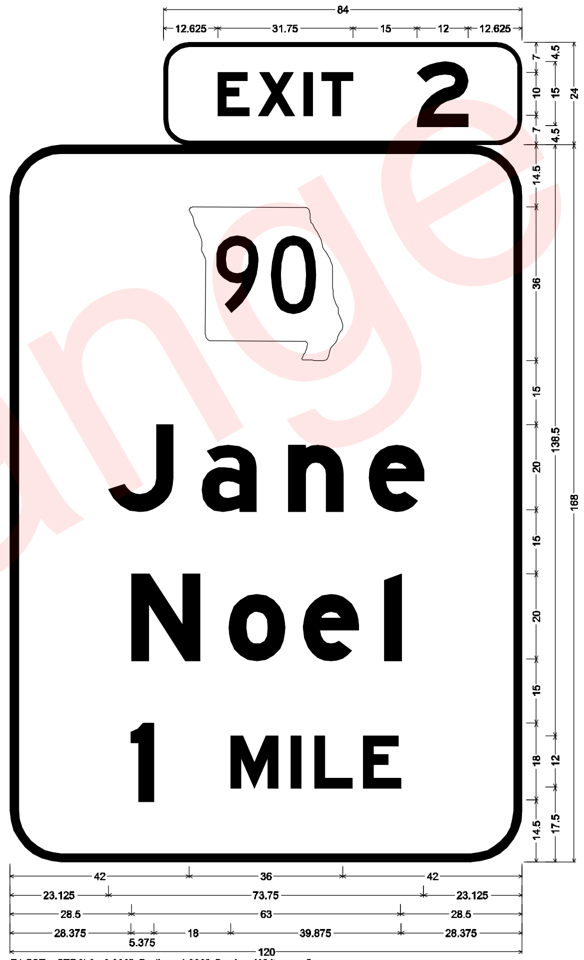
S	O	U	T	H		|		S	O	U	T	H
47.250	62.000	75.125	87.125	98.500	123.125	204.250	244.250	295.250	310.000	323.000	335.125	346.500

B	e	l	l	a	V	i	s	t	a	F	o	r	t	S	m	i	t	h
34.500	51.750	67.000	76.125	84.000	110.125	129.250	136.750	150.000	161.625	232.750	246.625	262.000	271.875	295.875	313.750	336.750	344.250	357.250

½	M	I	L	E
68.625	104.500	116.250	120.875	130.250

▬	↰	▬		↑
16.250	43.250	93.250	176.750	354.375

SIGN NO.	14,14A
STATION	802+34
ROADWAY	I-49



E1-5ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
[EXIT 2] E Mod;
E1-1ST STR2L3; 12.000" Radius, 2.000" Border, White on Green;
State Highway 90 M1-6a3 18.000" C; [Jane] E Mod; [Noel] E Mod; [1] E Mod; [MILE] E Mod;
Table of letter and object lefts.

E	X	I	T	2
12.625	22.125	32.875	37.000	59.375

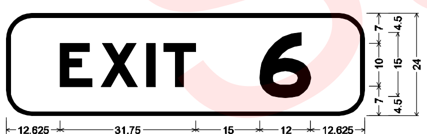
42.000

J	a	n	e
23.125	45.000	65.250	84.125

N	o	e	l
28.500	51.250	68.750	87.750

1	M	I	L	E
28.375	51.750	65.875	71.375	82.750

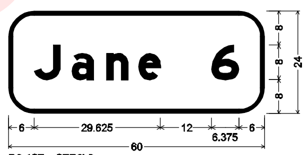
SIGN NO.	3
STATION	704+65
ROADWAY	I-49/RTE. 71



E1-5ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
[EXIT 6] E Mod;
Table of letter and object lefts.

E	X	I	T	6
12.625	22.125	32.875	37.000	59.375

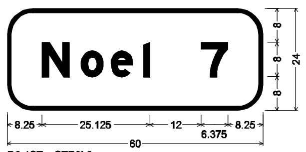
SIGN NO.	46
STATION	63+00
ROADWAY	RTE.90



D2-1ST STR2L3;
6.000" Radius, 1.000" Border, White on Green;
[Jane] E Mod; [6] E Mod;
Table of letter and object lefts.

J	a	n	e	6
6.000	14.750	22.875	30.500	47.625

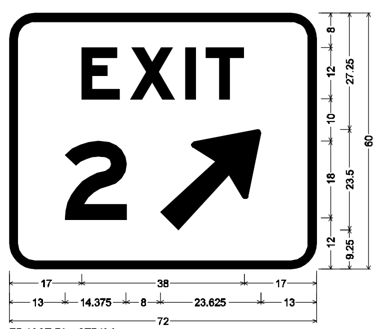
SIGN NO.	29
STATION	37+00
ROADWAY	RTE.90



D2-1ST STR2L3;
6.000" Radius, 1.000" Border, White on Green;
[Noel] E Mod; [7] E Mod;
Table of letter and object lefts.

N	o	e	l	7
8.250	17.375	24.250	31.875	45.375

SIGN NO.	20
STATION	859+37
ROADWAY	I-49

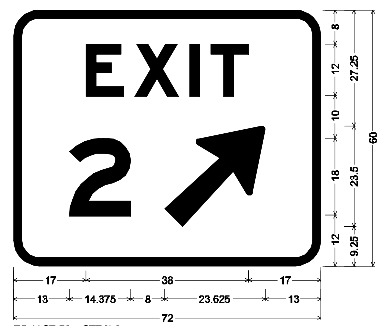


E5-1AST-72 STR2L3;
6.000" Radius, 2.000" Border, White on Green;
[EXIT] E Mod; [2] E Mod; Arrow 133 - 30.000" 45°;
Table of letter and object lefts.

E	X	I	T
17.000	28.375	41.250	46.125

2	↗
13.000	35.375

SIGN NO.	55
STATION	890+07
ROADWAY	I-49

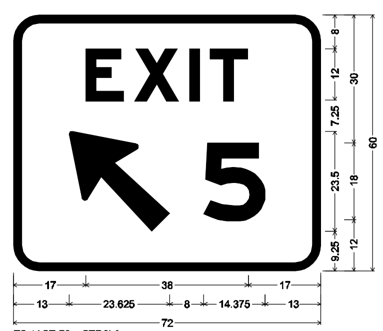


E5-1AST-72 STR2L3;
6.000" Radius, 2.000" Border, White on Green;
[EXIT] E Mod; [2] E Mod; Arrow 133 - 30.000" 45°;
Table of letter and object lefts.

E	X	I	T
17.000	28.375	41.250	48.125

2	↗
13.000	35.375

SIGN NO.	10
STATION	724+66
ROADWAY	I-49/RTE.71



E5-1AST-72 STR2L3;
6.000" Radius, 2.000" Border, White on Green;
[EXIT] E Mod; Arrow 133 - 30.000" 135°; [5] E Mod;
Table of letter and object lefts.

E	X	I	T
17.000	28.375	41.250	46.125

↖	5
13.000	44.625

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	93
COUNTY	McDONALD
JOB NO.	J7P0601
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

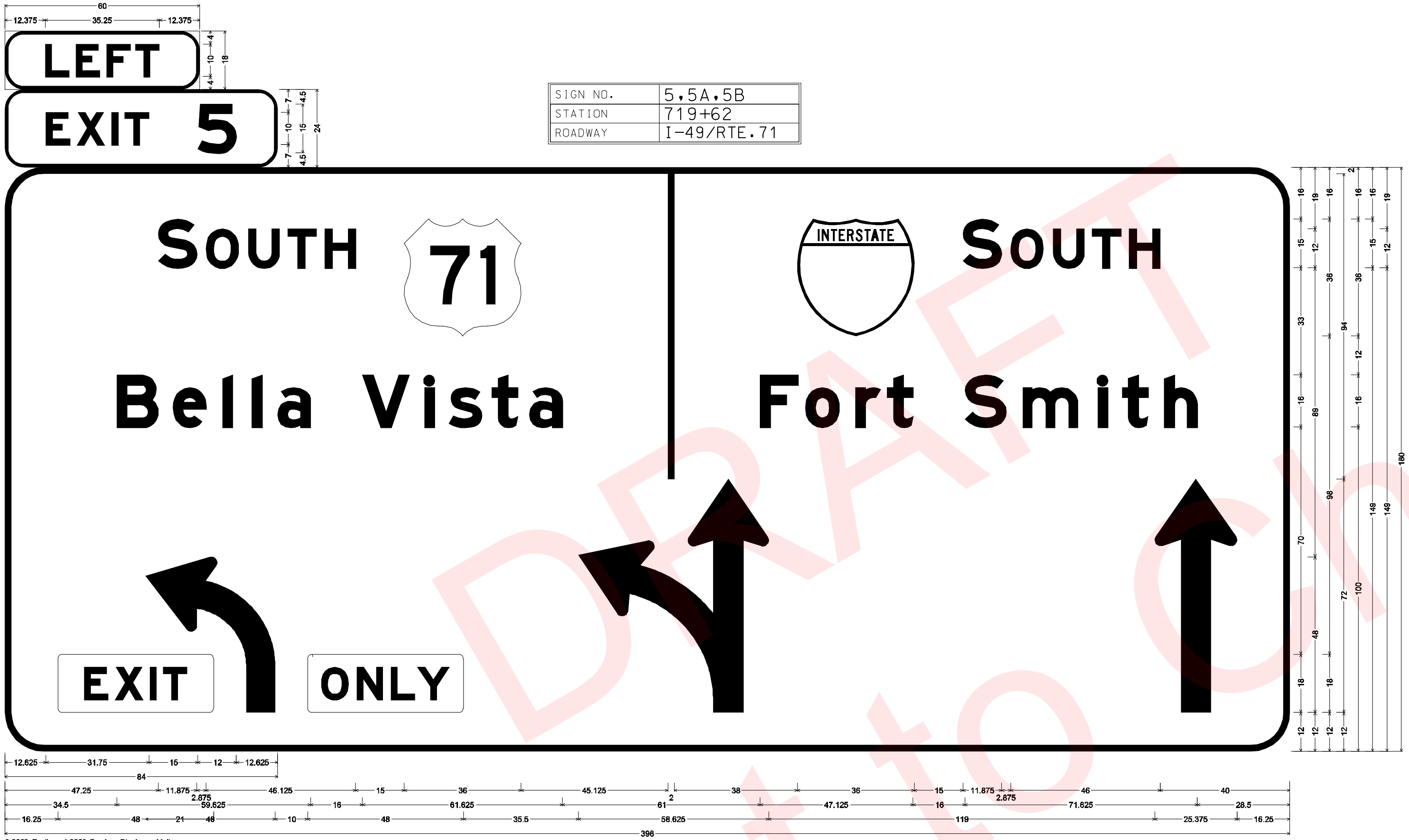
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

SIGN DETAILS

SHEET 12 OF 27

SIGN NO.	5,5A,5B
STATION	719+62
ROADWAY	I-49/RTE.71



6.000" Radius, 1.000" Border, Black on Yellow;
[LEFT] E Mod;
6.000" Radius, 1.000" Border, White on Green;
[EXIT 5] E Mod;
12.000" Radius, 2.000" Border, White on Green;
[ ] E Mod; [SOUTH] E Mod; [Bella Vista] E Mod; [SOUTH] E Mod; [Fort Smith] E Mod;
Table of letter and object lefts.

L	E	F	T
12.375	21.875	31.375	40.125

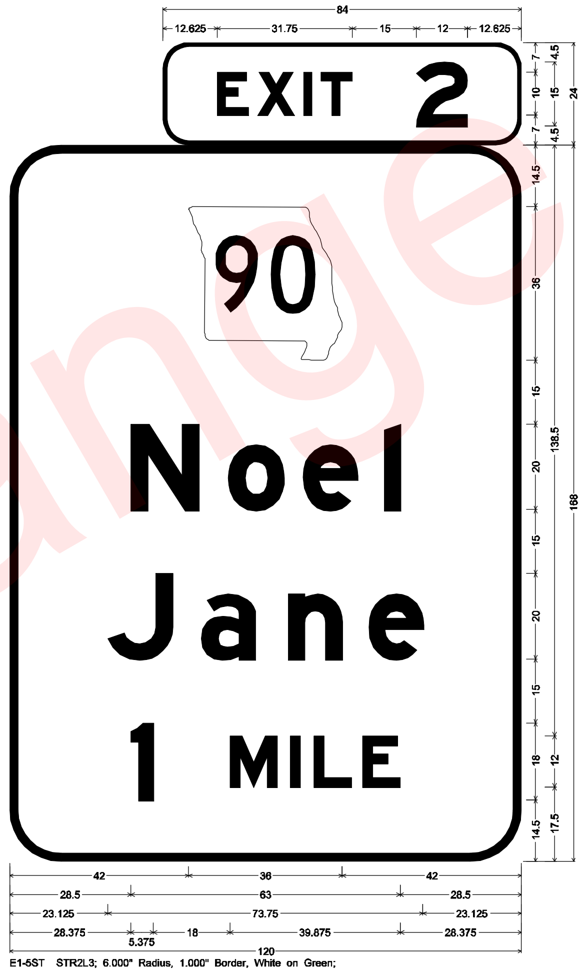
E	X	I	T	5
12.625	22.125	32.875	37.000	59.375

S	O	U	T	H		I		S	O	U	T	H
47.250	62.000	75.125	87.125	98.500	123.125	204.250	244.250	295.250	310.000	323.000	335.125	346.500

B	e	l	l	a	V	i	s	t	a	F	o	r	t	S	m	i	t	h
34.500	51.750	67.000	76.125	84.000	110.125	129.250	136.750	150.000	161.625	232.750	246.625	262.000	271.875	295.875	313.750	336.750	344.250	357.250

	↰			↑
16.250	43.250	93.250	176.750	354.375

SIGN NO.	62,62A
STATION	947+80
ROADWAY	I-49



E1-5ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
[EXIT 2] E Mod;
E1-1ST STR2L3; 12.000" Radius, 2.000" Border, White on Green;
State Highway 90 M1-6a3 18.000" C; [Noel] E Mod; [Jane] E Mod; [1] E Mod; [MILE] E Mod;
Table of letter and object lefts.

E	X	I	T	2
12.625	22.125	32.875	37.000	59.375

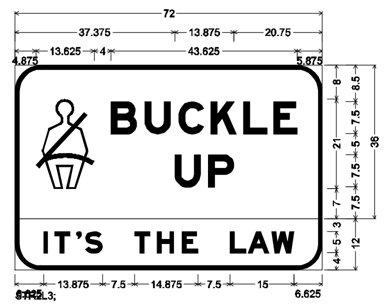
42.000

N	o	e	l
28.500	51.250	68.750	87.750

J	a	n	e
23.125	45.000	65.250	84.125

1	M	I	L	E
28.375	51.750	65.875	71.375	82.750

SIGN NO.	65
STATION	972+00
ROADWAY	I-49



STR2L3;
6.000" Radius, 1.000" Border, Black on White;
Symbol RG015 White; [BUCKLE] E Mod; [UP] E Mod;
6.000" Radius, 1.000" Border, White on Black;
[IT'S THE LAW] E Mod 150% spacing;
Table of letter and object lefts.

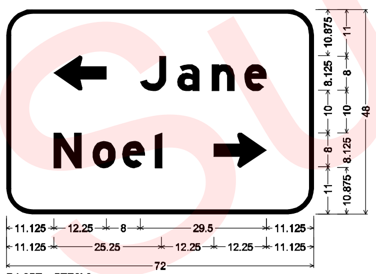
	B	U	C	K	L	E
4.875	22.500	30.375	38.250	45.875	53.500	60.625

U	P
37.375	45.250

I	T	'	S	T	H	E
6.625	9.125	14.500	16.500	28.000	33.250	39.125

L	A	W
50.375	54.625	60.125

SIGN NO.	25
STATION	2015+40
ROADWAY	RAMP 2

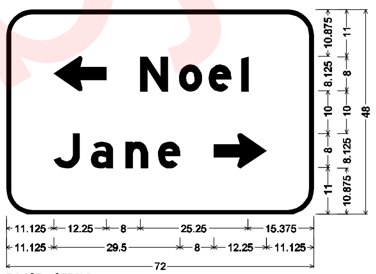


D1-2ST STR2L3;
6.000" Radius, 1.000" Border, White on Green;
Standard Arrow Custom 12.250" X 8.125" 180°;
[Jane] E Mod; [Noel] E Mod;
Standard Arrow Custom 12.250" X 8.125" 0°;
Table of letter and object lefts.

←	J	a	n	e
11.125	31.375	40.125	48.250	55.750

N	o	e	l	→
11.125	20.250	27.250	34.875	48.625

SIGN NO.	50
STATION	3002+95
ROADWAY	RAMP 3

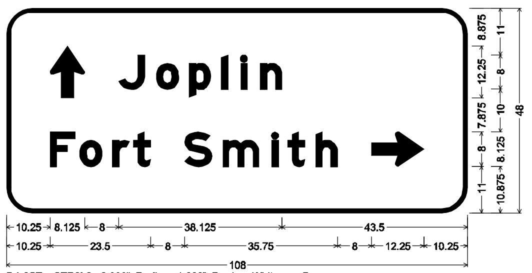


D1-2ST STR2L3;
6.000" Radius, 1.000" Border, White on Green;
Standard Arrow Custom 12.250" X 8.125" 180°;
[Noel] E Mod; [Jane] E Mod;
Standard Arrow Custom 12.250" X 8.125" 0°;
Table of letter and object lefts.

←	N	o	e	l
11.125	31.375	40.500	47.500	55.125

J	a	n	e	→
11.125	19.875	28.000	35.500	48.625

SIGN NO.	33
STATION	43+75
ROADWAY	RTE.90

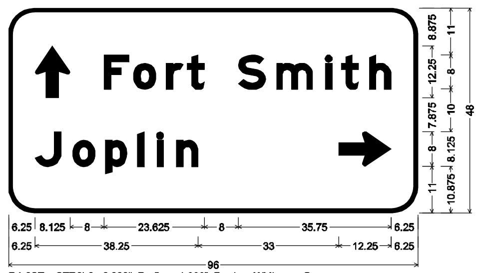


D1-2ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
Standard Arrow Custom 12.250" X 8.125" 90°; [Joplin] E Mod; [Fort Smith] E Mod;
Standard Arrow Custom 12.250" X 8.125" 0°;
Table of letter and object lefts.

↑	J	o	p	l	i	n
10.250	26.375	35.125	42.750	50.375	54.875	59.500

F	o	r	t	S	m	i	t	h	→
10.250	17.125	24.875	29.750	41.750	50.750	62.250	66.000	72.500	85.500

SIGN NO.	42
STATION	56+75
ROADWAY	RTE. 90



D1-2ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
Standard Arrow Custom 12.250" X 8.125" 90°; [Fort Smith] E Mod;
[Joplin] E Mod; Standard Arrow Custom 12.250" X 8.125" 0°;
Table of letter and object lefts.

↑	F	o	r	t	S	m	i	t	h
6.250	22.375	29.375	37.000	42.000	54.000	62.875	74.375	78.125	84.625

J	o	p	l	i	n	→
6.250	15.000	22.750	30.250	34.875	39.375	77.500

SIGN DETAILS

SHEET 13 OF 27

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 94
COUNTY McDONALD	
JOB NO. J7P0601	
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)

REV.

SIGN NO.	18,18A
STATION	849+60
ROADWAY	I-49

EXIT 2

90

Jane
Noel

42 — 36 — 42
23.125 — 73.75 — 23.125
28.5 — 63 — 28.5
46.25 — 27.5 — 46.25
120

E1-5ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
[EXIT 2] E Mod;
E4-1ST STR2L3; 12.000" Radius, 2.000" Border, White on Green;
State Highway 90 M1-6a3 18.000" C; [Jane] E Mod; [Noel] E Mod; Arrow 160 - 35.000" 45°;
Table of letter and object lefts.

E	X	I	T	2
12.625	22.125	32.875	37.000	59.375

42.000

J	a	n	e
23.125	45.000	65.250	84.125

N	o	e	l
28.500	51.250	68.750	87.750

↗
46.250

SIGN NO.	57,57A
STATION	900+45
ROADWAY	I-49

EXIT 2

90

Noel
Jane

42 — 36 — 42
28.5 — 63 — 28.5
23.125 — 73.75 — 23.125
46.25 — 27.5 — 46.25
120

E1-5ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
[EXIT 2] E Mod;
E4-1ST STR2L3; 12.000" Radius, 2.000" Border, White on Green;
State Highway 90 M1-6a3 18.000" C; [Noel] E Mod; [Jane] E Mod; Arrow 160 - 35.000" 45°;
Table of letter and object lefts.

E	X	I	T	2
12.625	22.125	32.875	37.000	59.375

42.000

N	o	e	l
28.500	51.250	68.750	87.750

J	a	n	e
23.125	45.000	65.250	84.125

↗
46.250

SIGN NO.	36
STATION	47+40
ROADWAY	RTE.90

SOUTH INTERSTATE
Fort Smith
←

16.75 — 8 — 1.75 — 30.75 — 10 — 24 — 16.75
9.125 — 31.375 — 10.625 — 47.75 — 9.125
36 — 36 — 36
108

E4-3ST STR2L3; 9.000" Radius, 2.000" Border, White on Green;
[SOUTH] E Mod; [Fort Smith] E Mod; Standard Arrow Custom 36.000" X 12.125" 180°;
Table of letter and object lefts.

S	O	U	T	H	
16.750	26.500	35.250	43.375	50.875	67.250

F	o	r	t	S	m	i	t	h
9.125	18.375	28.625	35.125	51.125	63.125	78.375	83.375	92.125

←
36.000

SIGN NO.	39
STATION	52+60
ROADWAY	RTE.90

NORTH INTERSTATE
Joplin
←

10.5 — 8 — 2.25 — 30.75 — 10 — 24 — 10.5
22.5 — 51 — 22.5
30 — 36 — 30
96

E4-3ST STR2L3; 9.000" Radius, 2.000" Border, White on Green;
[NORTH] E Mod; [Joplin] E Mod;
Standard Arrow Custom 36.000" X 12.125" 180°;
Table of letter and object lefts.

N	O	R	T	H	
10.500	20.750	29.500	37.500	45.125	61.500

J	o	p	l	i	n
22.500	34.125	44.500	54.500	60.625	66.750

←
30.000

SIGN NO.	61
STATION	931+00
ROADWAY	I-49

Hit a Worker
$10,000 Fine
Lose Your License

25.25 — 40.125 — 8 — 21.375 — 25.25
8.5 — 22.625 — 8 — 24.75 — 8 — 39.625 — 8.5

STR4L3; 6.000" Radius, 1.000" Border, Black on Orange;
[Hit a Worker] E Mod;
STR2L3; 6.000" Radius, 1.000" Border, Black on White;
[$10,000 Fine] D; [Lose Your License] D;
Table of letter and object lefts.

H	i	t	a	W	o	r	k	e	r
19.750	29.375	33.125	45.125	58.125	68.500	76.125	81.875	88.750	96.375

$	1	0	,	0	0	0	F	i	n	e
25.250	32.750	36.625	43.250	45.500	52.625	59.750	73.375	79.875	83.750	90.375

L	o	s	e	Y	o	u	r
8.500	14.750	20.750	26.625	39.125	46.750	53.375	60.500

L	i	c	e	n	s	e
71.875	78.750	82.125	88.125	94.750	101.125	107.000

SIGN NO.	60
STATION	928+00
ROADWAY	I-49

Fayetteville 43
Fort Smith 104

11.125 — 122.75 — 21.25 — 25.75 — 11.125
11.125 — 39.25 — 13.375 — 59.625 — 24 — 33.5 — 11.125
192

D2-2ST STR2L3; 6.000" Radius, 2.000" Border, White on Green;
[Fayetteville] E Mod; [43] E Mod; [Fort Smith] E Mod; [104] E Mod;
Table of letter and object lefts.

F	a	y	e	t	t	e	v	i	l	l	e	4	3
11.125	22.750	34.875	48.250	59.500	68.875	78.625	89.875	103.625	111.125	118.750	125.375	155.125	170.250

F	o	r	t	S	m	i	t	h	1	0	4
11.125	22.750	35.625	43.750	63.750	78.625	97.875	104.000	114.875	147.375	154.750	168.500

SIGN NO.	13
STATION	740+00
ROADWAY	I-49

Fayetteville 46
Fort Smith 107

11.25 — 122.75 — 21.125 — 25.625 — 11.25
11.25 — 39.25 — 13.375 — 59.625 — 25.5 — 31.75 — 11.25
192

D2-2ST STR2L3; 6.000" Radius, 2.000" Border, White on Green;
[Fayetteville] E Mod; [46] E Mod; [Fort Smith] E Mod; [107] E Mod;
Table of letter and object lefts.

F	a	y	e	t	t	e	v	i	l	l	e	4	6
11.250	22.875	35.000	48.375	59.625	69.000	78.625	90.000	103.625	111.250	118.875	125.500	155.125	170.125

F	o	r	t	S	m	i	t	h	1	0	7
11.250	22.875	35.625	43.875	63.875	78.750	97.875	104.125	115.000	149.000	156.375	170.125

SIGN NO.	15
STATION	830+00
ROADWAY	I-49

Pineville 3
Joplin 40

13.375 — 89.875 — 28.75 — 10.625 — 13.375
13.375 — 63.75 — 39.375 — 26.125 — 13.375
156

D2-2ST STR2L3; 6.000" Radius, 2.000" Border, White on Green;
[Pineville] E Mod; [3] E Mod; [Joplin] E Mod; [40] E Mod;
Table of letter and object lefts.

P	i	n	e	v	i	l	l	e	3
13.375	27.750	35.375	47.875	59.250	72.875	80.500	88.125	94.750	132.000

J	o	p	l	i	n	4	0
13.375	28.000	40.750	53.375	61.000	68.625	116.500	131.625

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

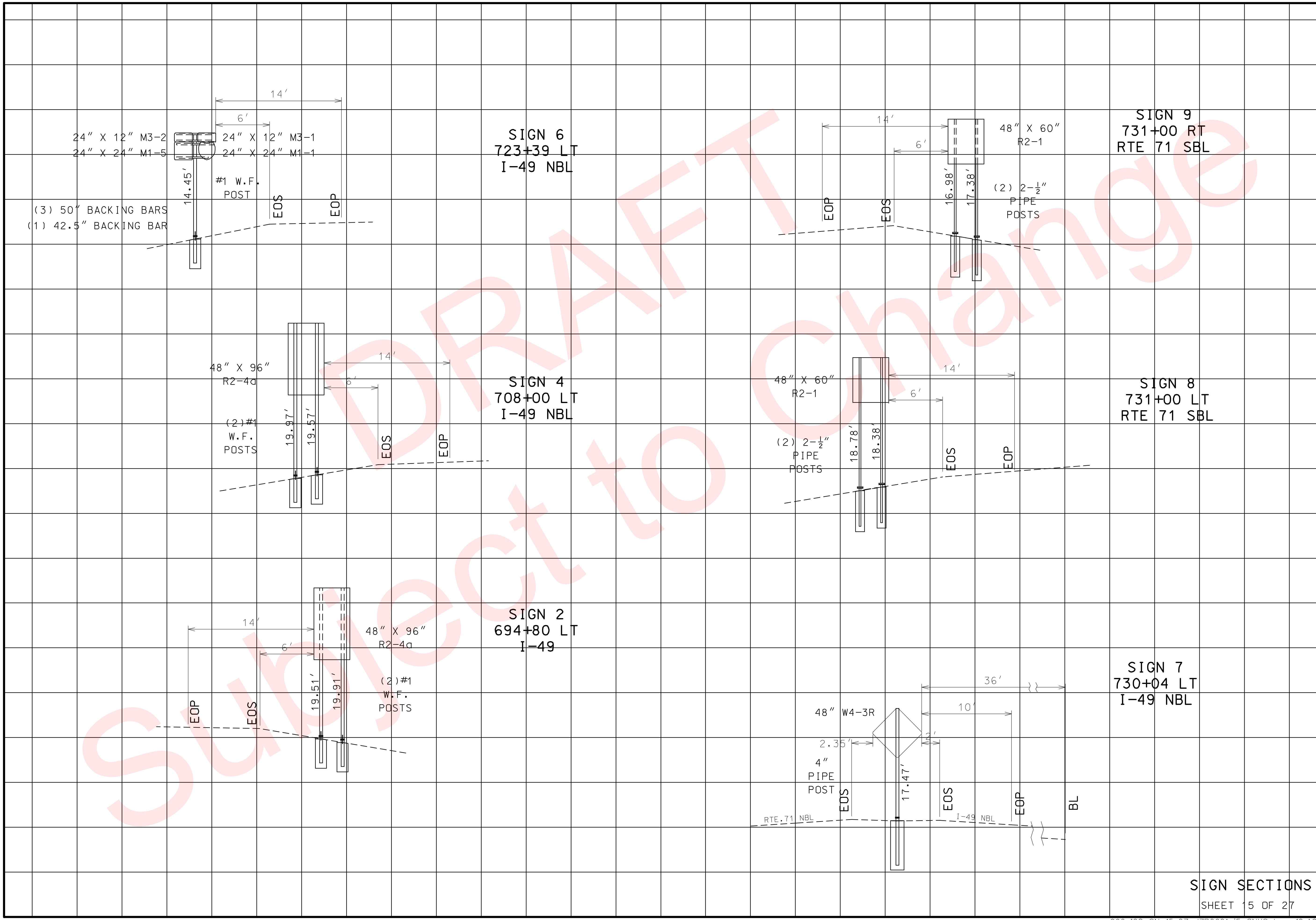
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	95
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE

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

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

SIGN DETAILS
SHEET 14 OF 27



SIGN SECTIONS

SHEET 15 OF 27

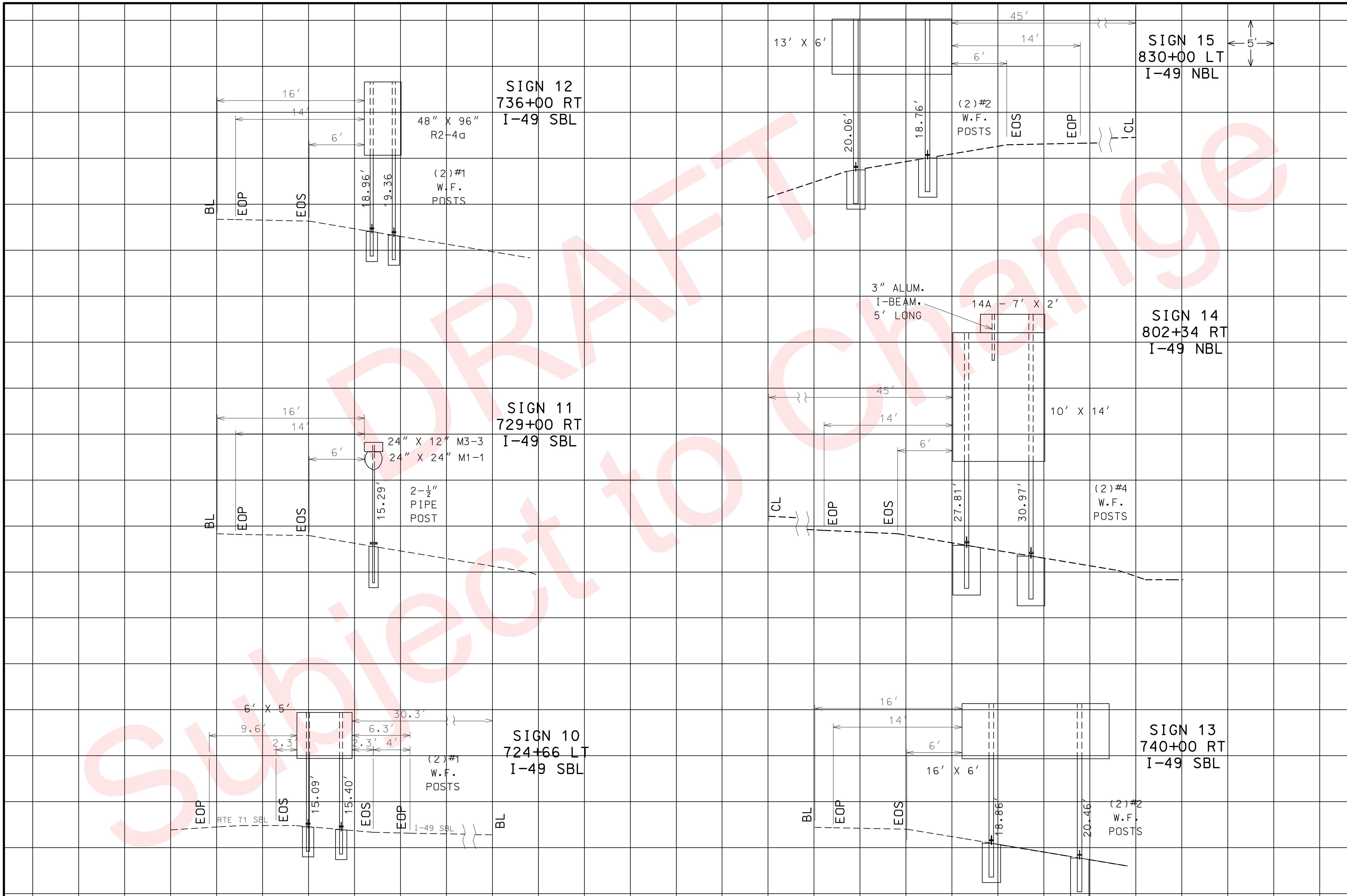
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 96
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



SIGN SECTIONS

SHEET 16 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 97
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

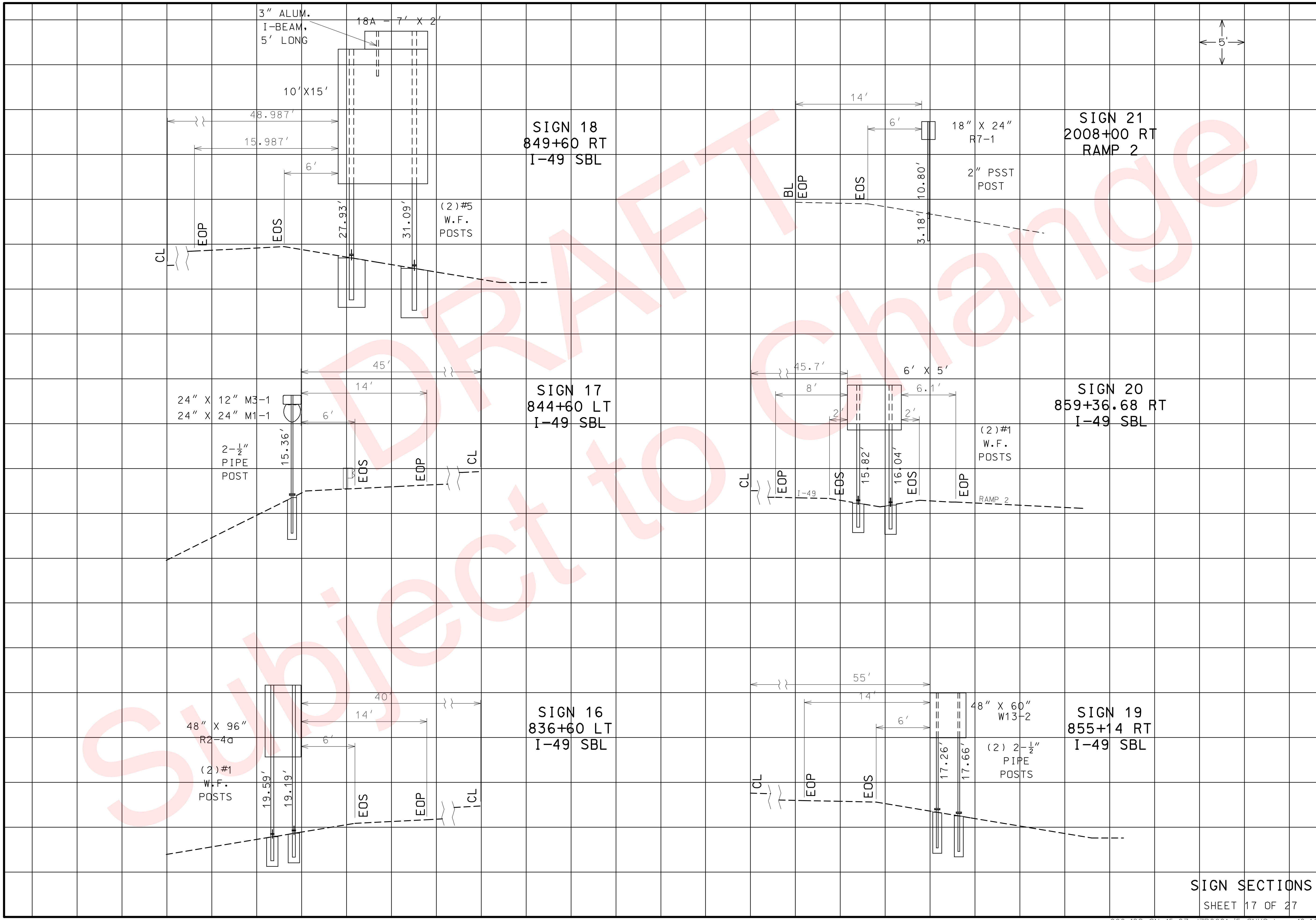
DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 98
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

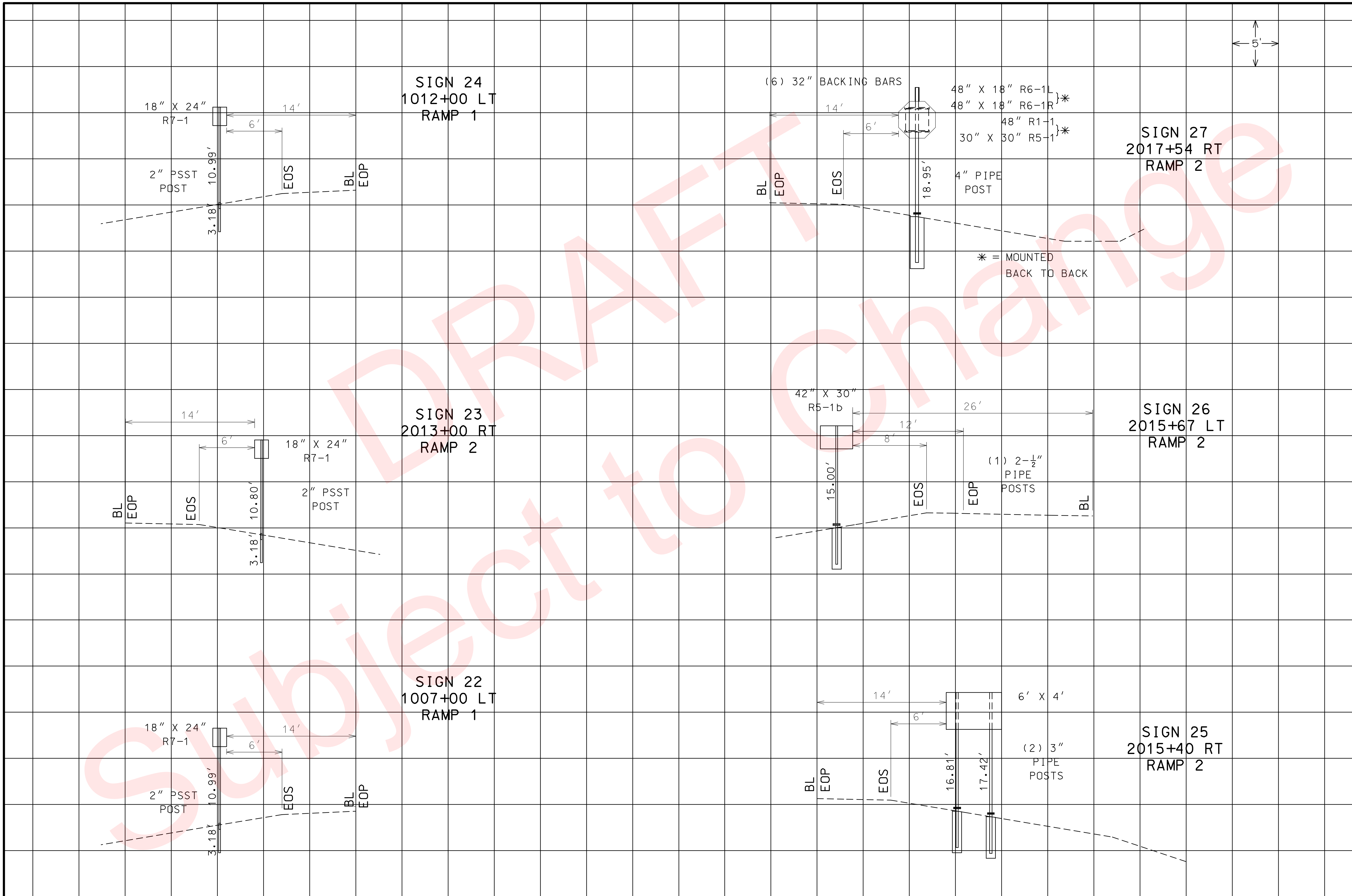
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

SIGN SECTIONS

SHEET 17 OF 27

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 99
COUNTY McDONALD	
JOB NO. J7P0601	
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)

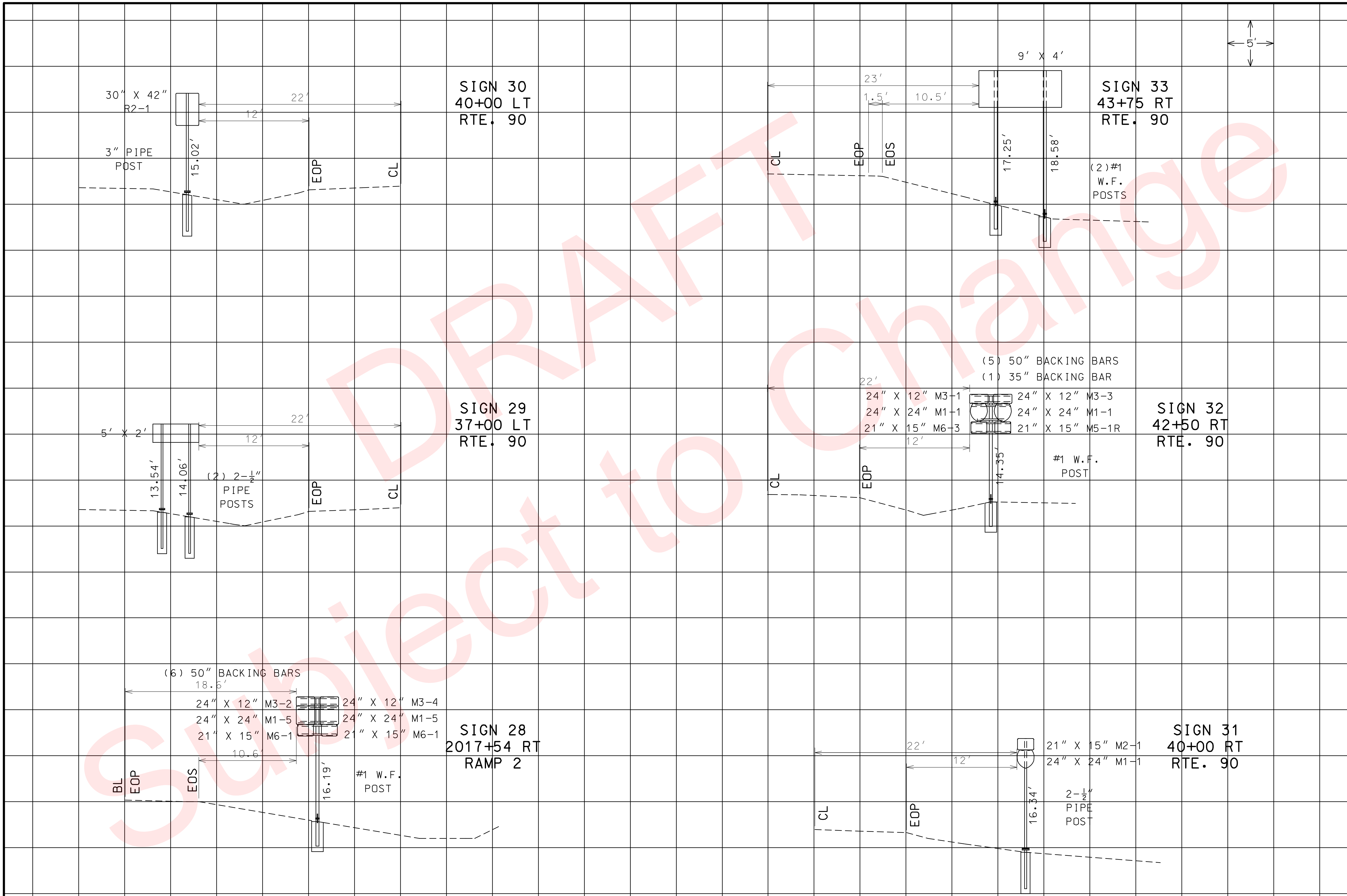
MoDOT

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

REV.

SIGN SECTIONS

SHEET 18 OF 27



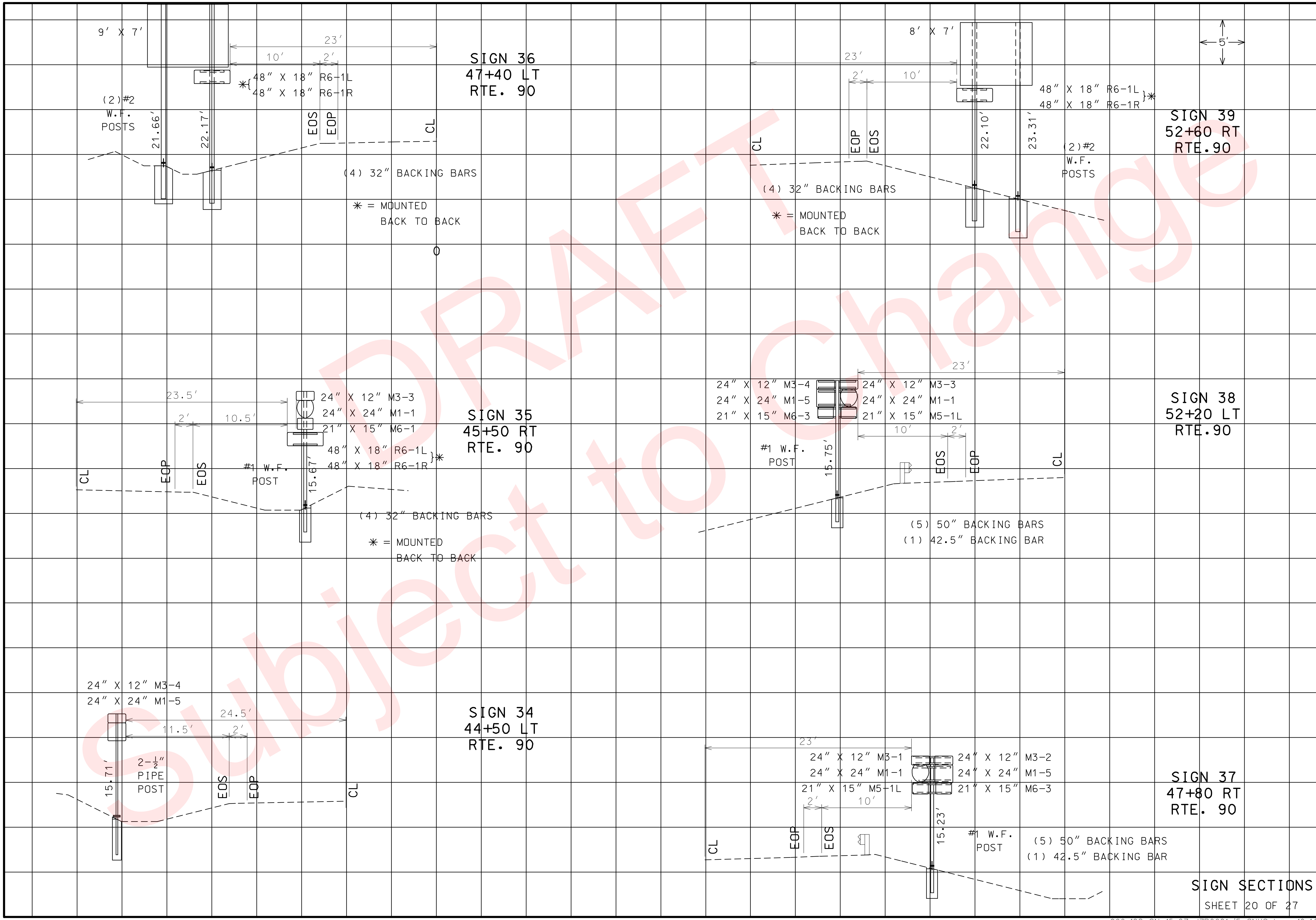
SIGN SECTIONS

SHEET 19 OF 27

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	100
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE
REV.

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



SIGN SECTIONS

SHEET 20 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 101
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

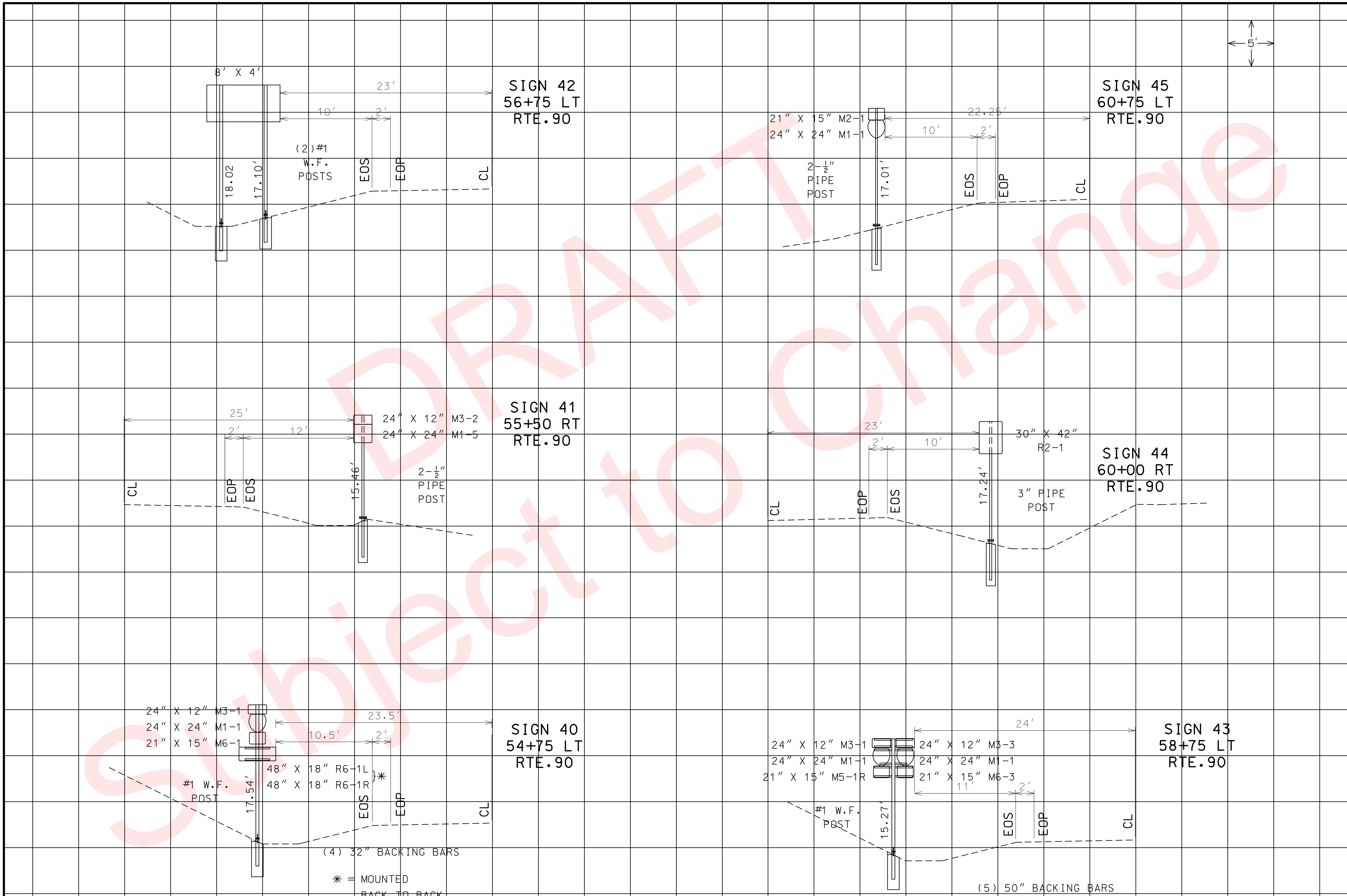
DATE

REV.

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.



SIGN SECTIONS

SHEET 21 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	102
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

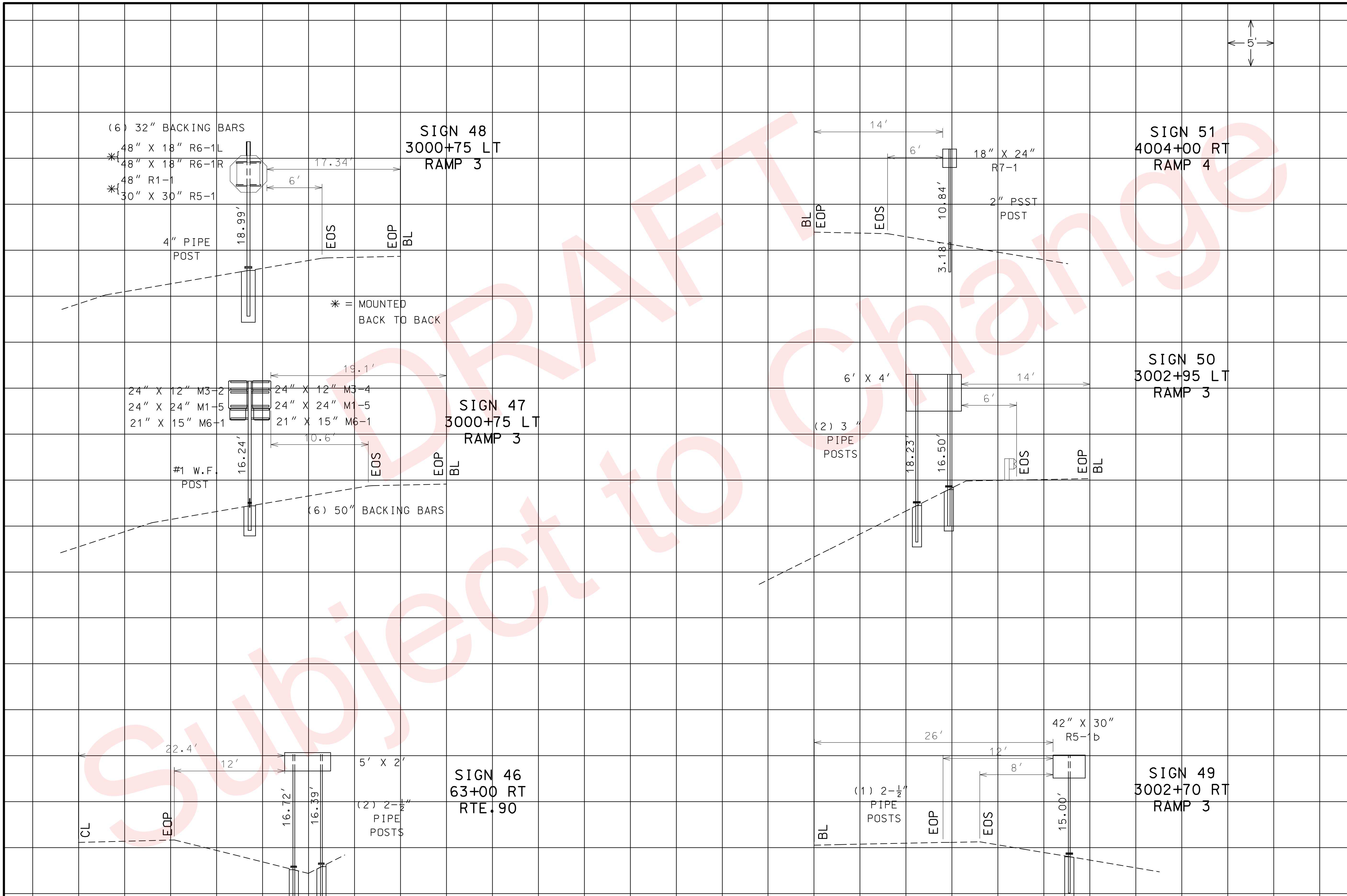
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



SIGN SECTIONS

SHEET 22 OF 27

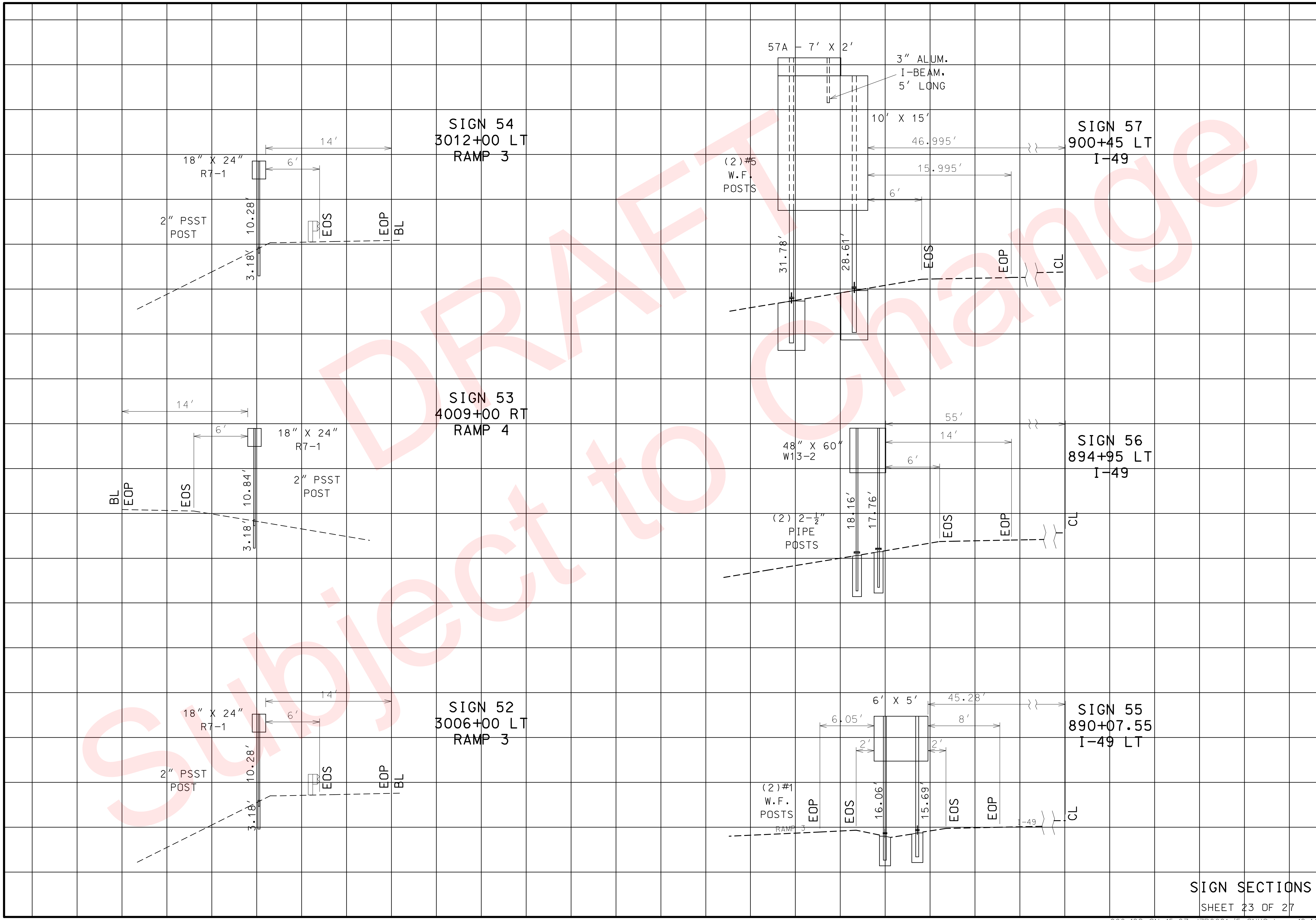
DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 103
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 104
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

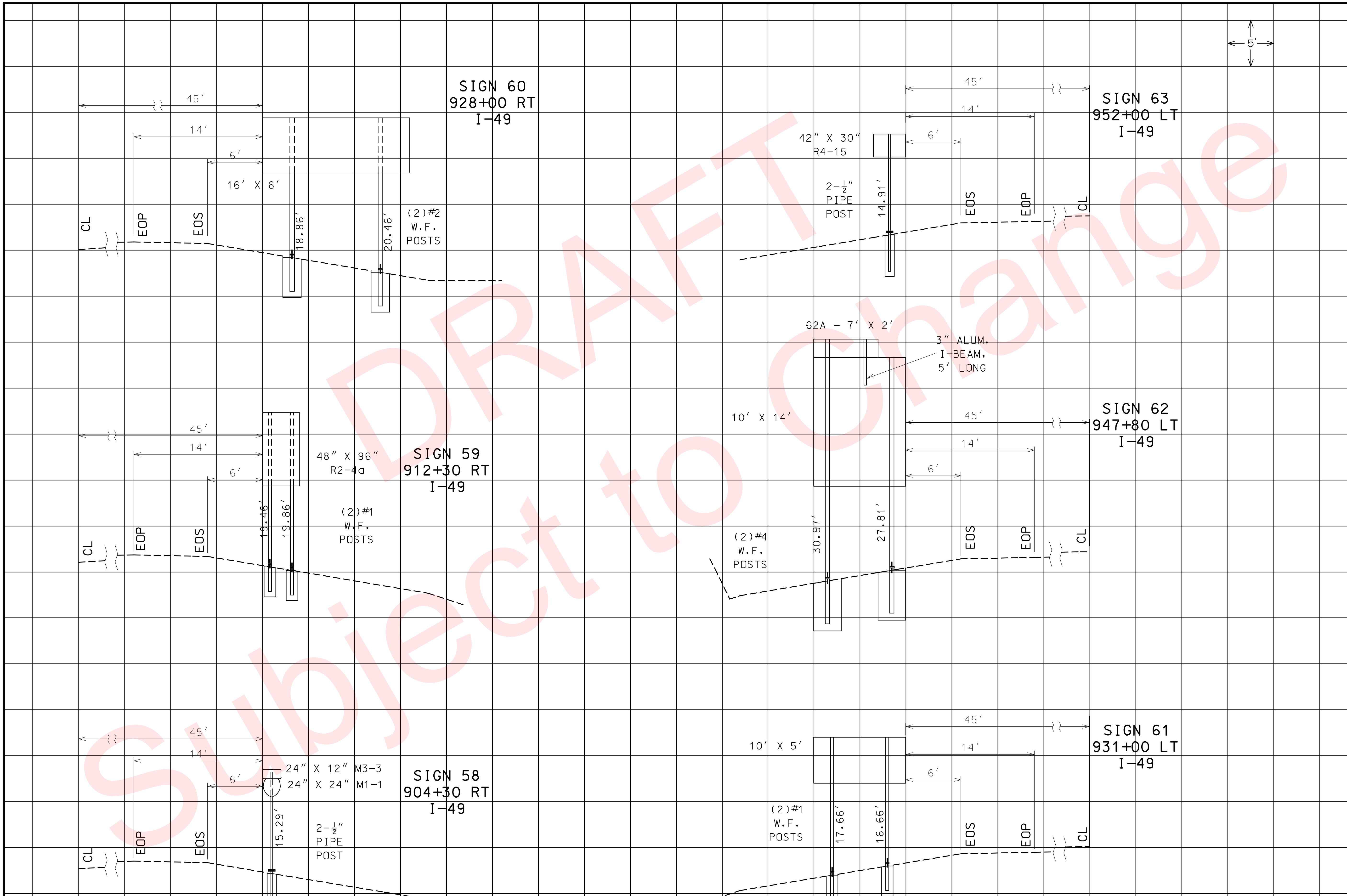
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



SIGN SECTIONS

SHEET 24 OF 27

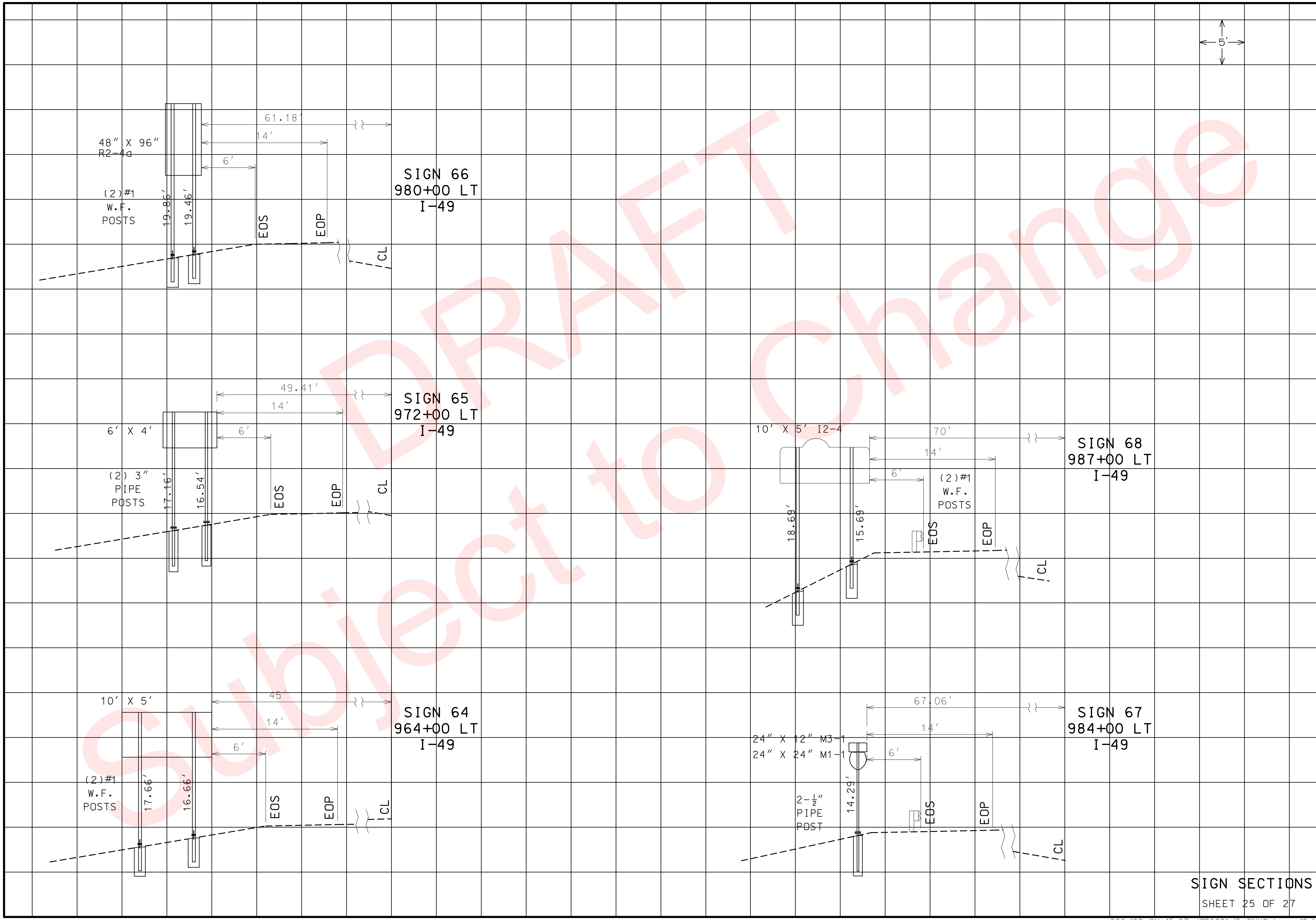
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	105
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	106
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

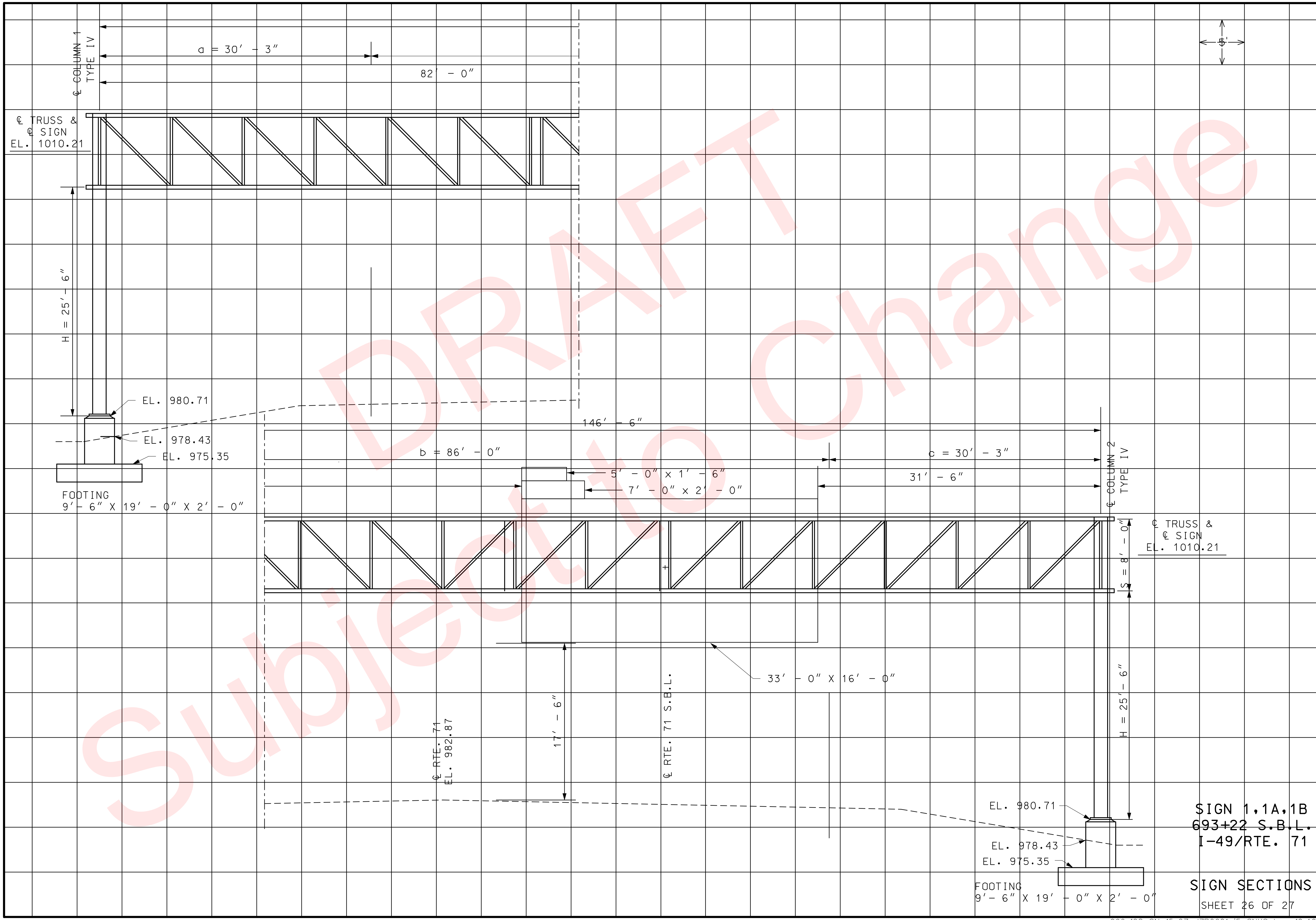
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



SIGN 1,1A,1B
693+22 S.B.L.
I-49/RTE. 71

SIGN SECTIONS

SHEET 26 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 107
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

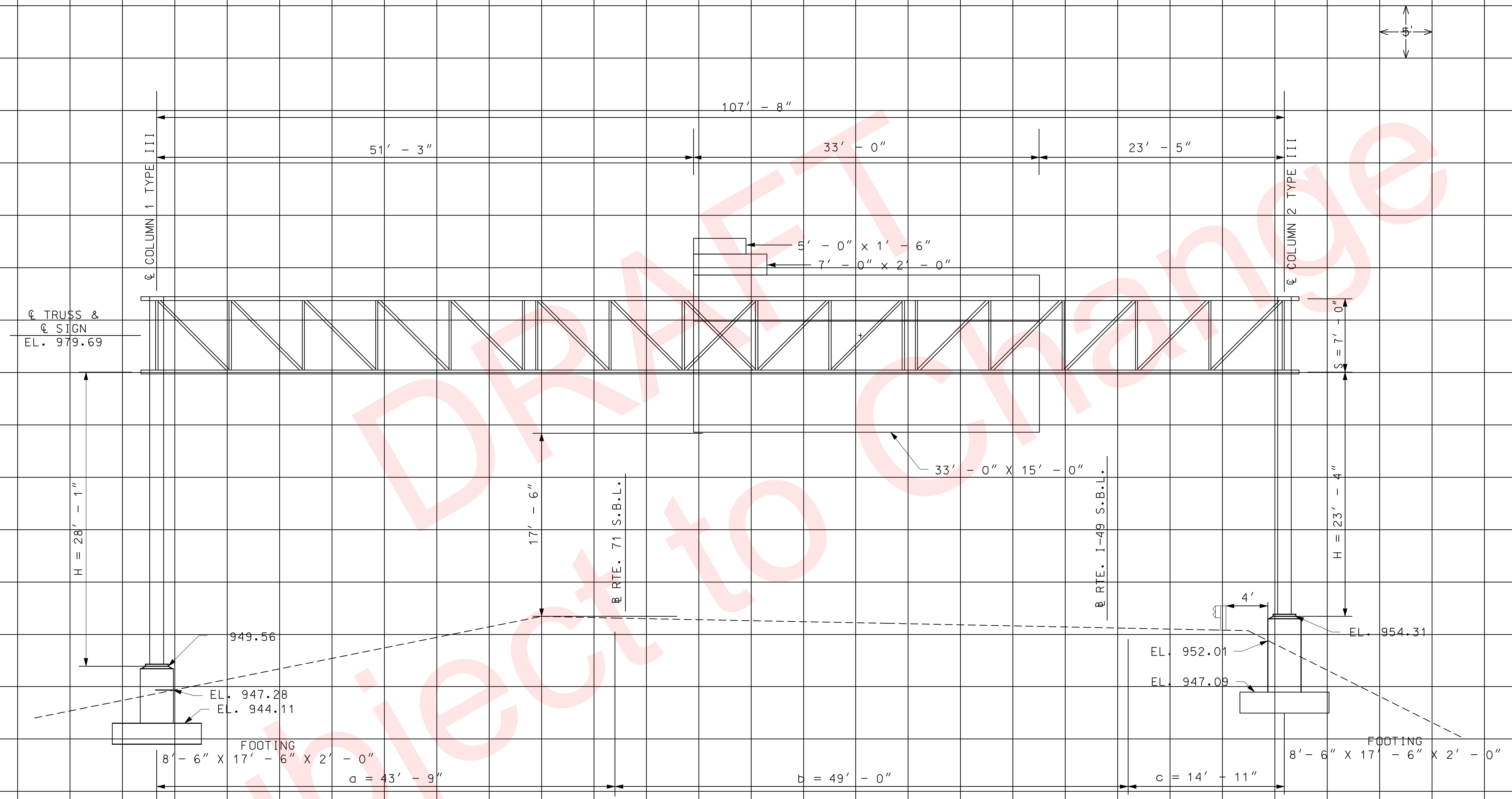
DATE | DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



NOTE: GUARDRAIL PLACED
A MINIMUM OF 4' FROM
THE PEDESTAL

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	108
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

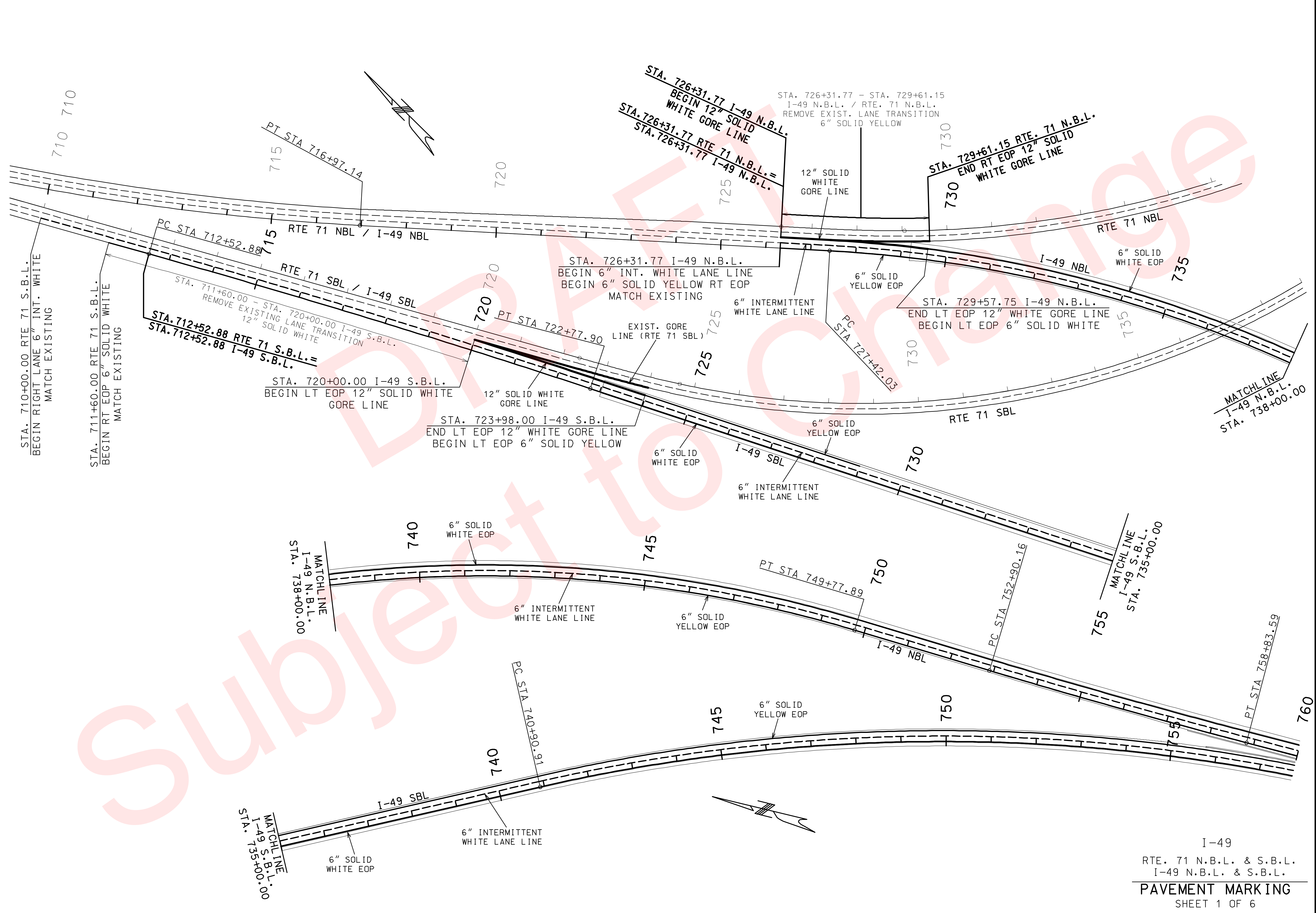
DATE

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

SIGN 5,5A,5B
719+62 S.B.L.
I-49/RTE.71

SIGN SECTIONS

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

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

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 109
COUNTY McDONALD	
JOB NO. J7P0601	
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

I-49

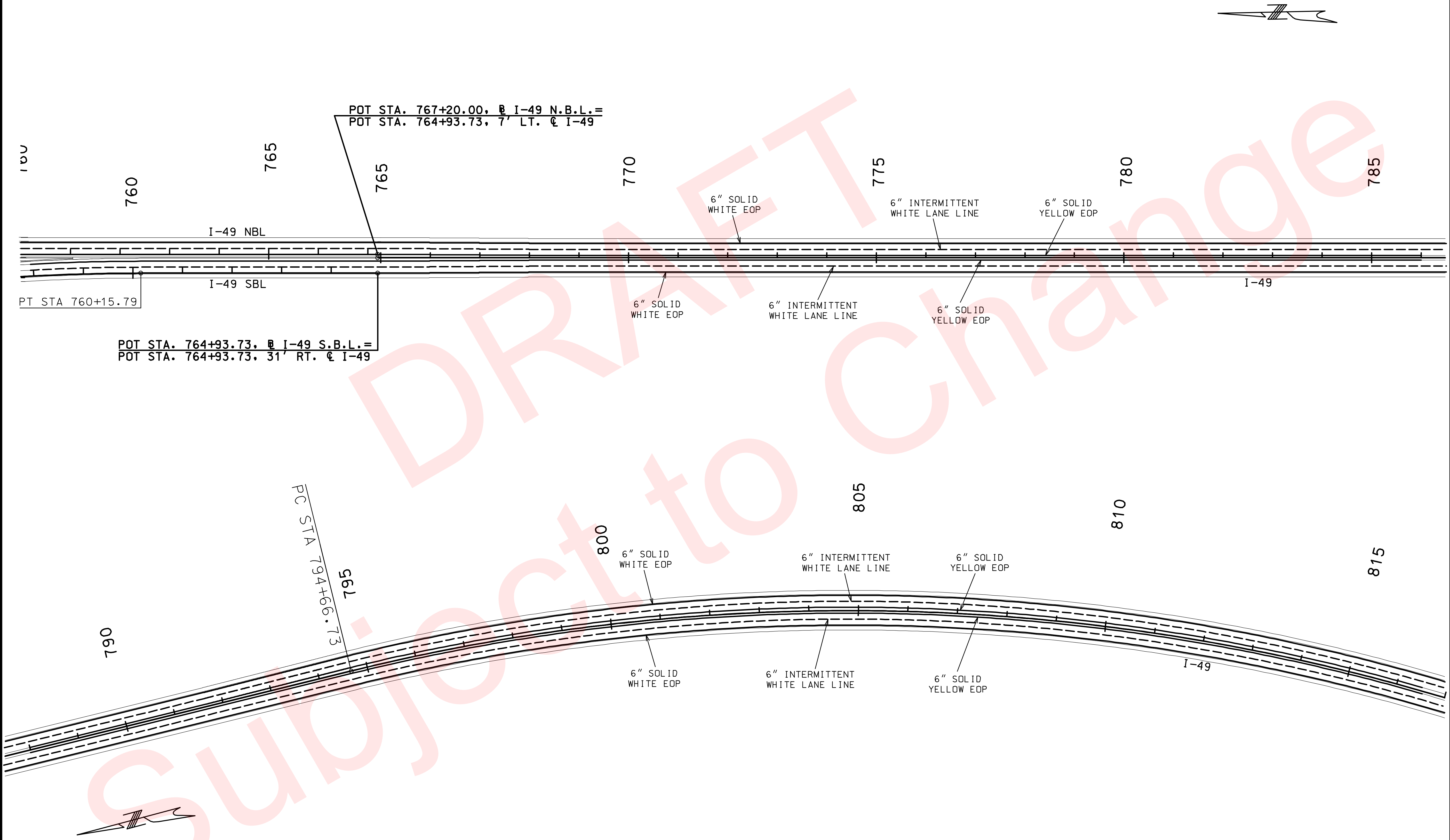
RTE. 71 N.B.L. & S.B.L.
I-49 N.B.L. & S.B.L.

PAVEMENT MARKING

SHEET 1 OF 6

REV.

109_PM_01_J7P0601_i100_i49.dgn 10:22:57 AM 02/04/2010



I-49 N.B.L. & S.B.L.

PAVEMENT MARKING

SHEET 2 OF 6

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 110
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE | DESCRIPTION

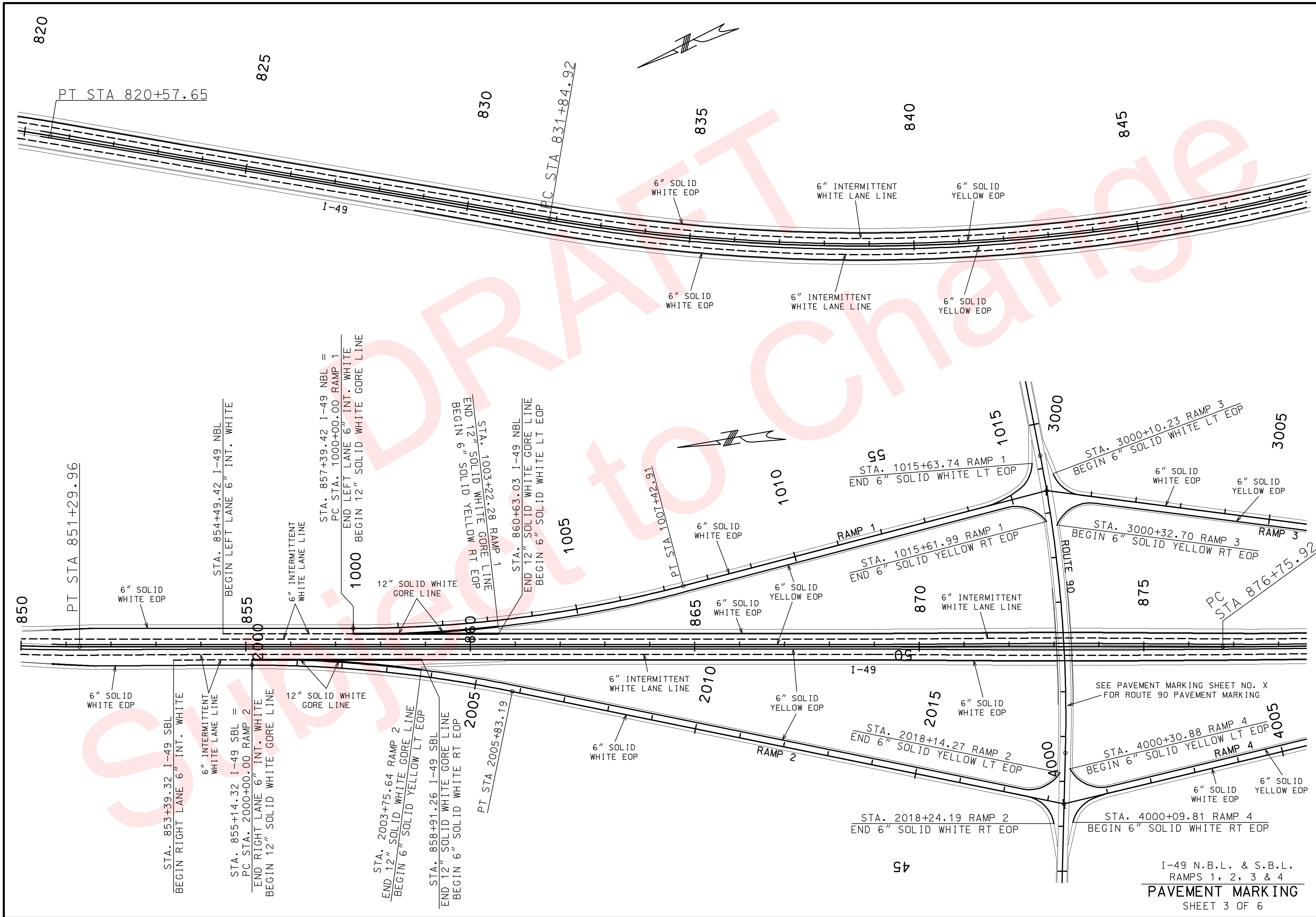
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

110_PM_02_J7P0601_i100_i49.dgn 10:23:00 AM 02/04/2010



I-49 N.B.L. & S.B.L.
RAMPS 1, 2, 3 & 4

PAVEMENT MARKING

SHEET 3 OF 6

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 111
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

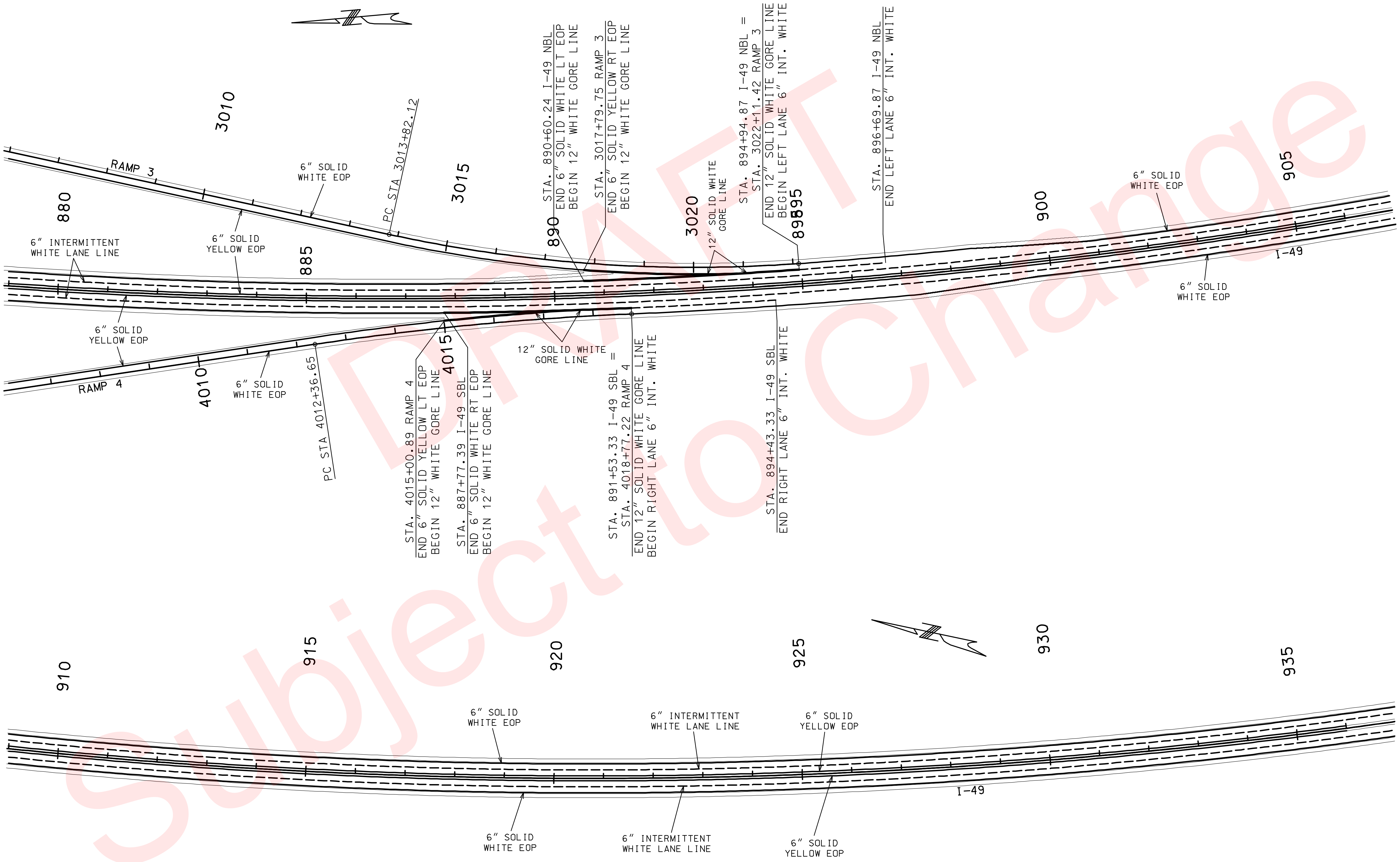
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 112
COUNTY McDONALD	
JOB NO. J7P0601	
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)

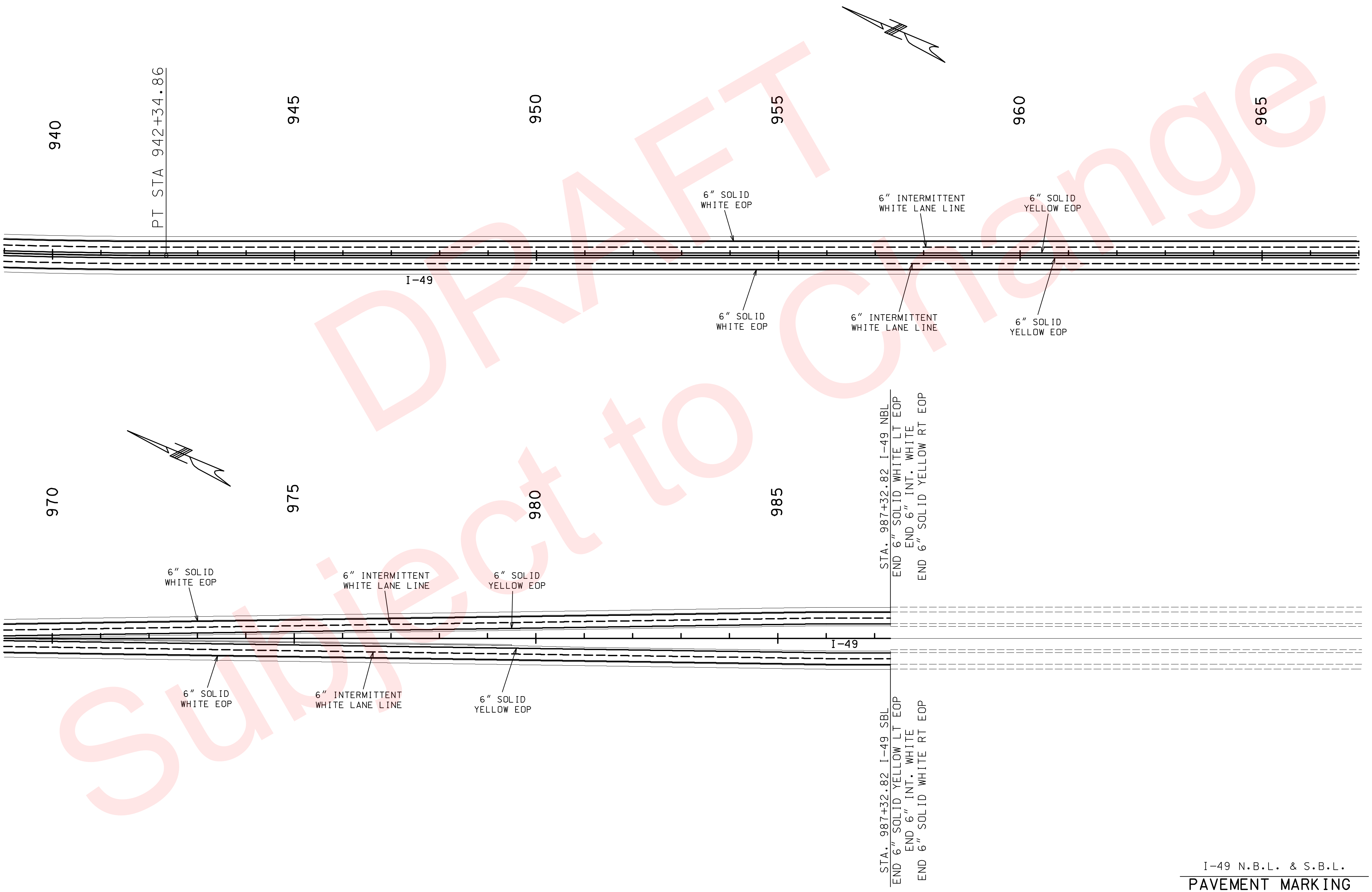
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

I-49 N.B.L. & S.B.L.
RAMPS 3 & 4

PAVEMENT MARKING

SHEET 4 OF 6



I-49 N.B.L. & S.B.L.

PAVEMENT MARKING

SHEET 5 OF 6

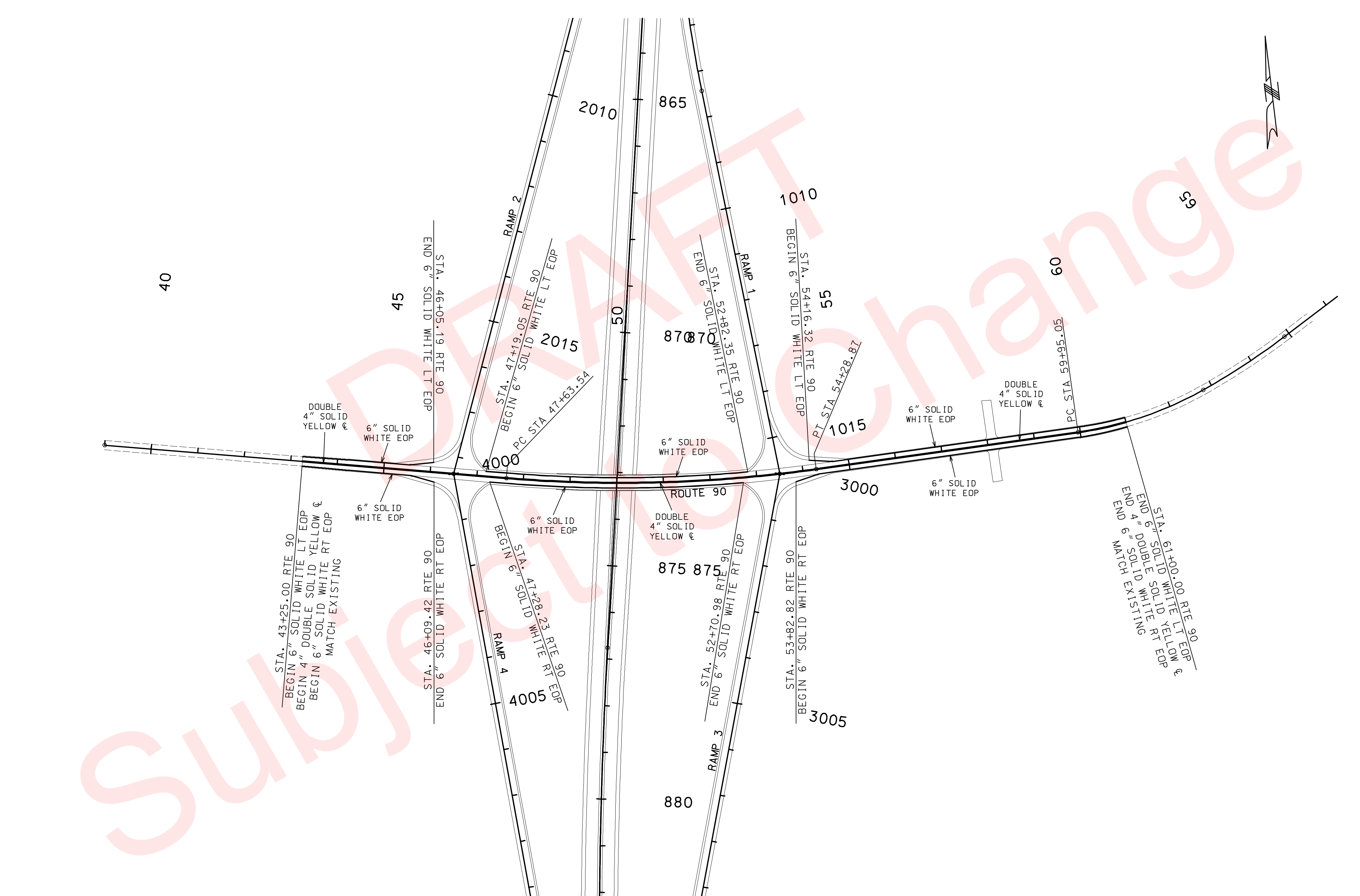
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	113
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



ROUTE 90
PAVEMENT MARKING
SHEET 6 OF 6

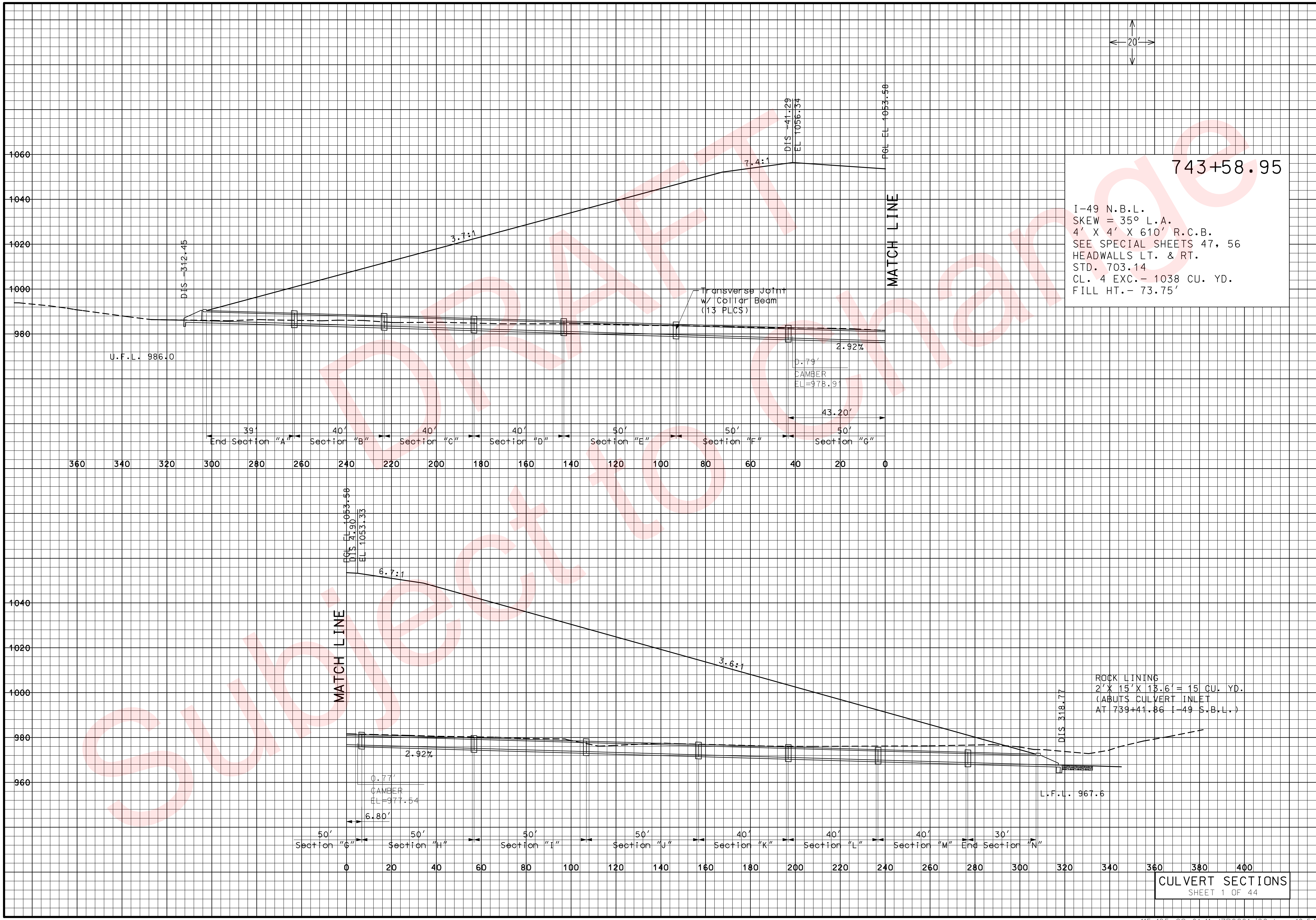
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 114
COUNTY McDONALD	
JOB NO. J7P0601	
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.



743+58.95

I-49 N.B.L.
SKEW = 35° L.A.
4' X 4' X 610' R.C.B.
SEE SPECIAL SHEETS 47, 56
HEADWALLS LT. & RT.
STD. 703.14
CL. 4 EXC.- 1038 CU. YD.
FILL HT.- 73.75'

CULVERT SECTIONS
SHEET 1 OF 44

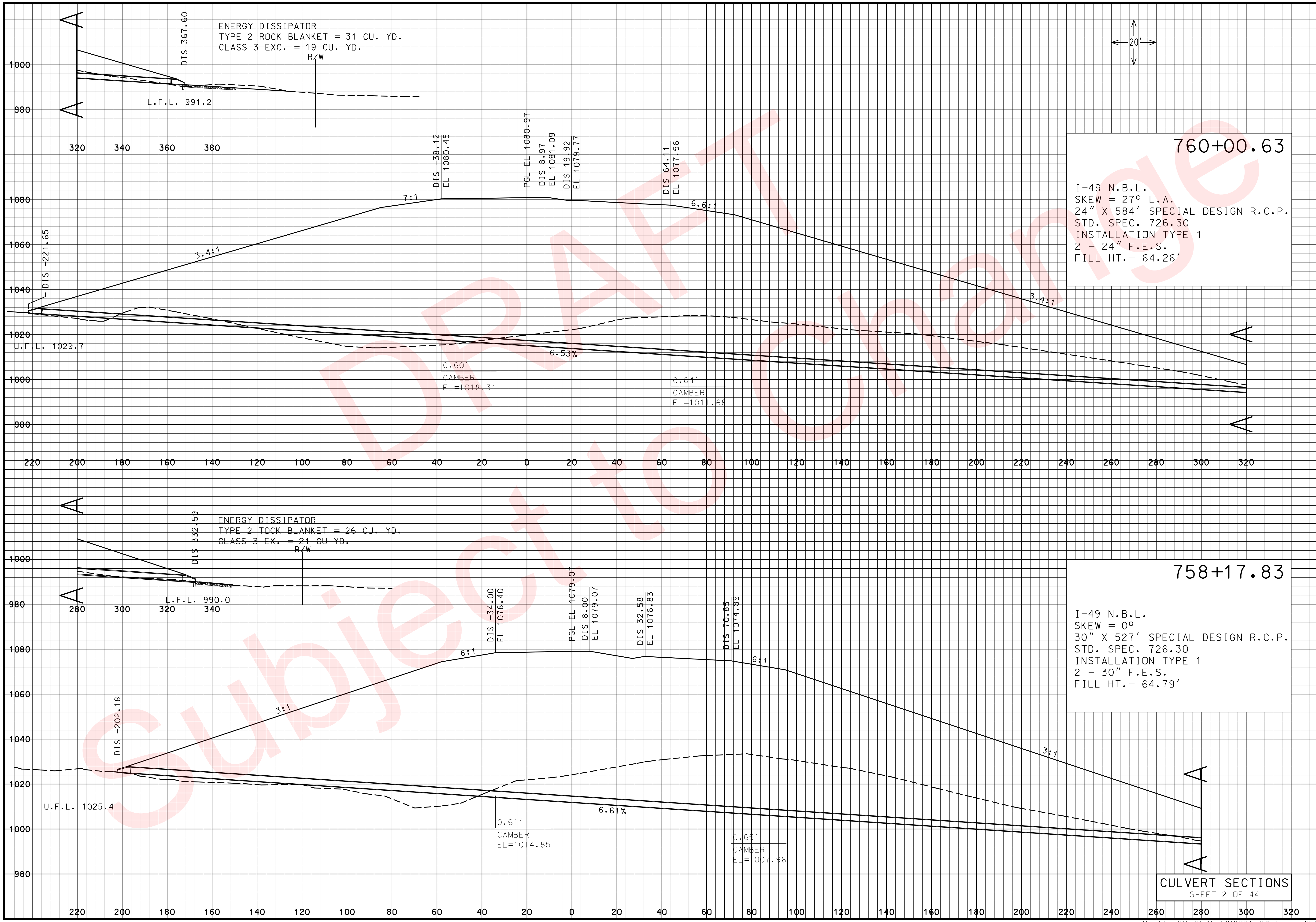
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	115
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



CULVERT SECTIONS
SHEET 2 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

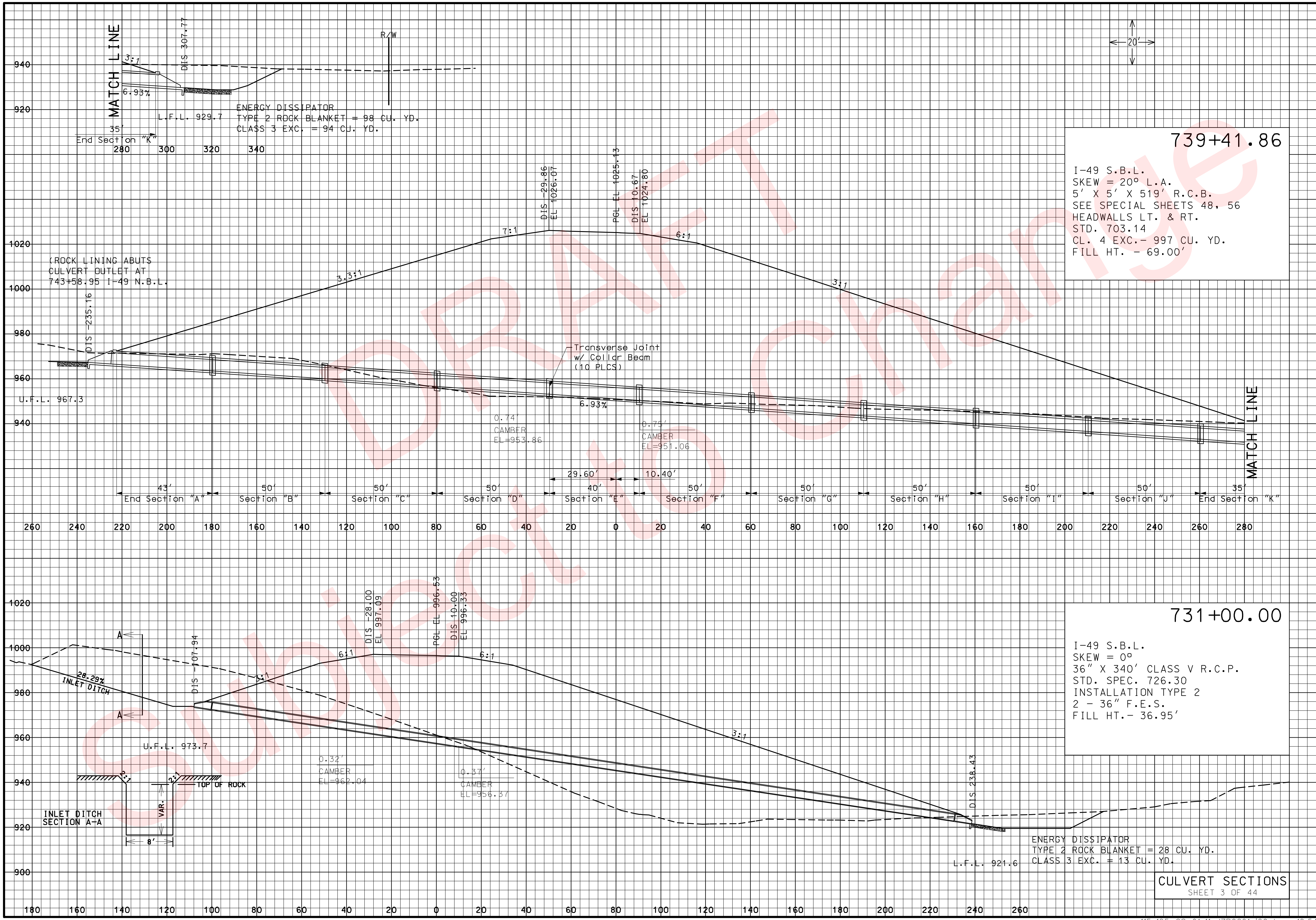
DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 116
COUNTY	J7P0601
JOB NO.	McDONALD
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



CULVERT SECTIONS
SHEET 3 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 117
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

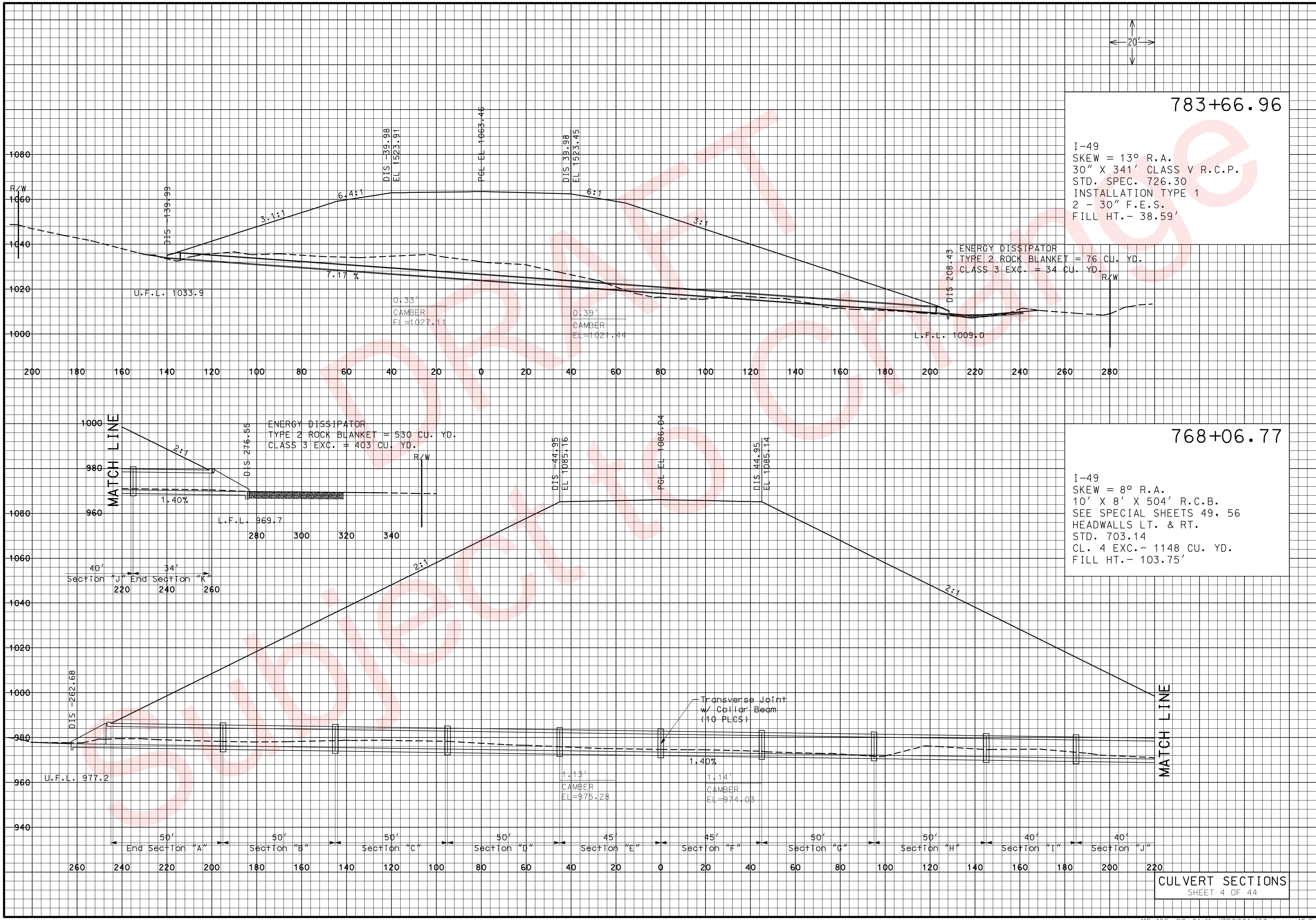
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

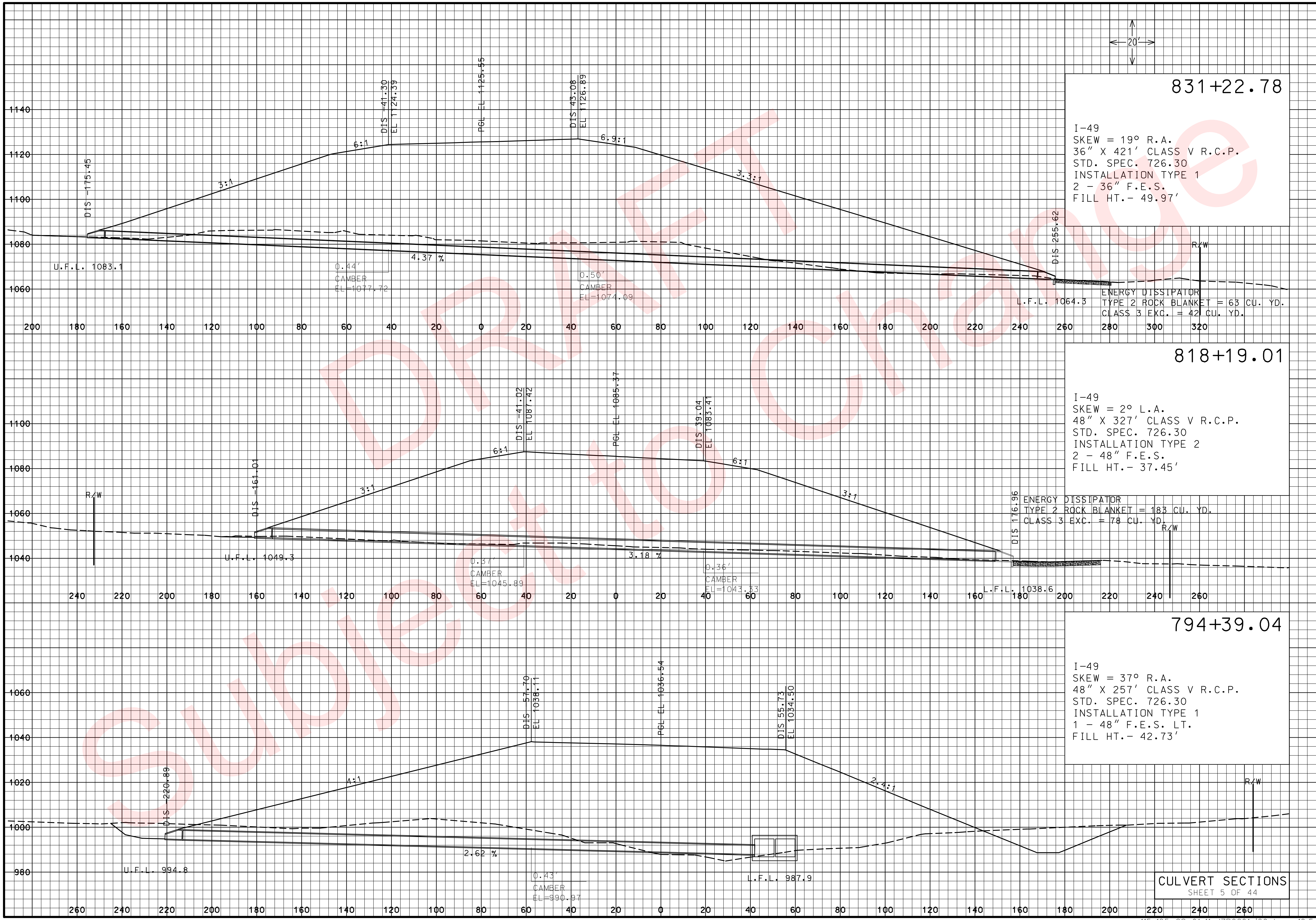
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	118
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



CULVERT SECTIONS
SHEET 5 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 119
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

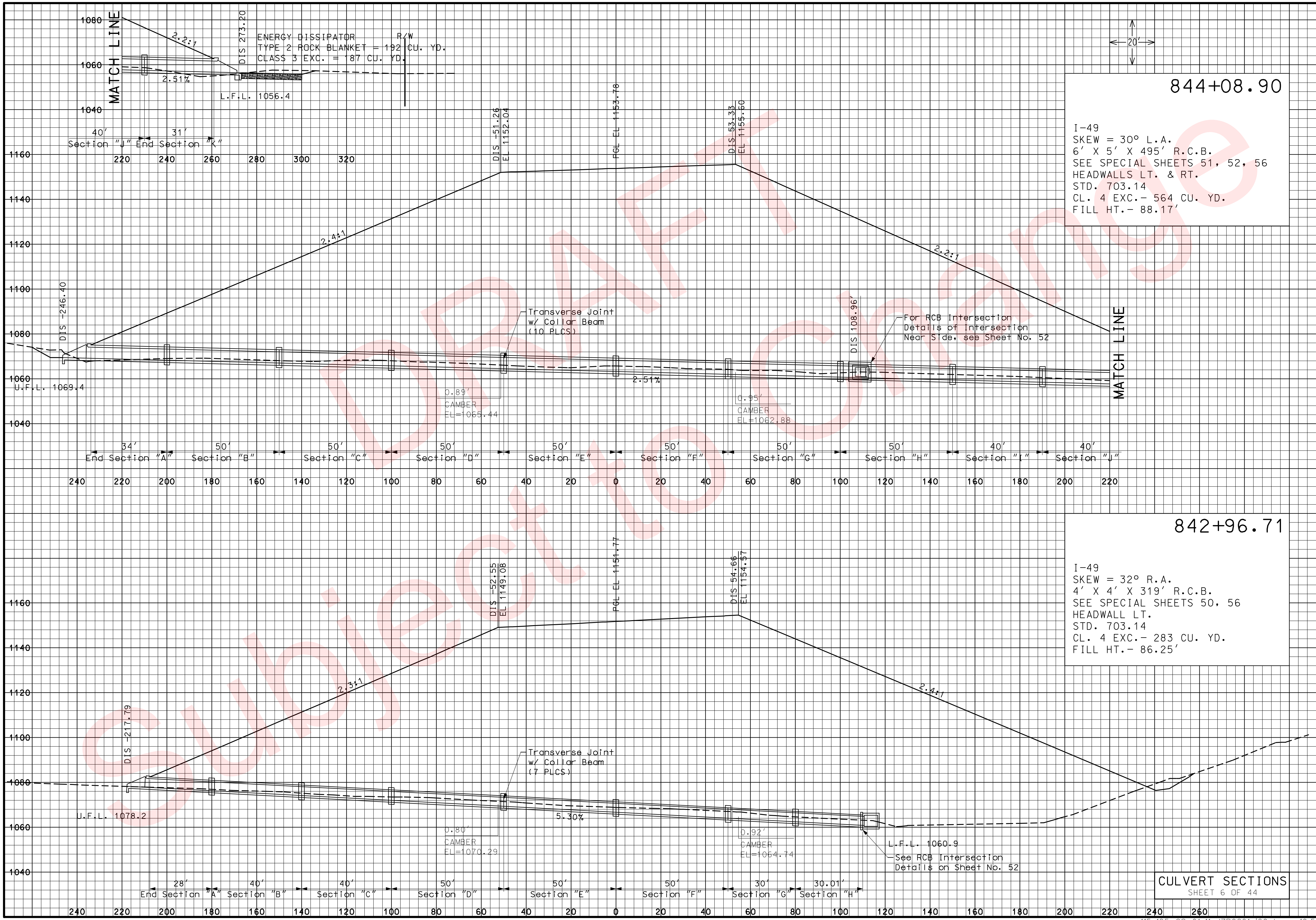
DATE

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

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

REV.

115-125_CS_01-11_J7P0601_i20.dgn 10:54:19 AM 02/04/2010



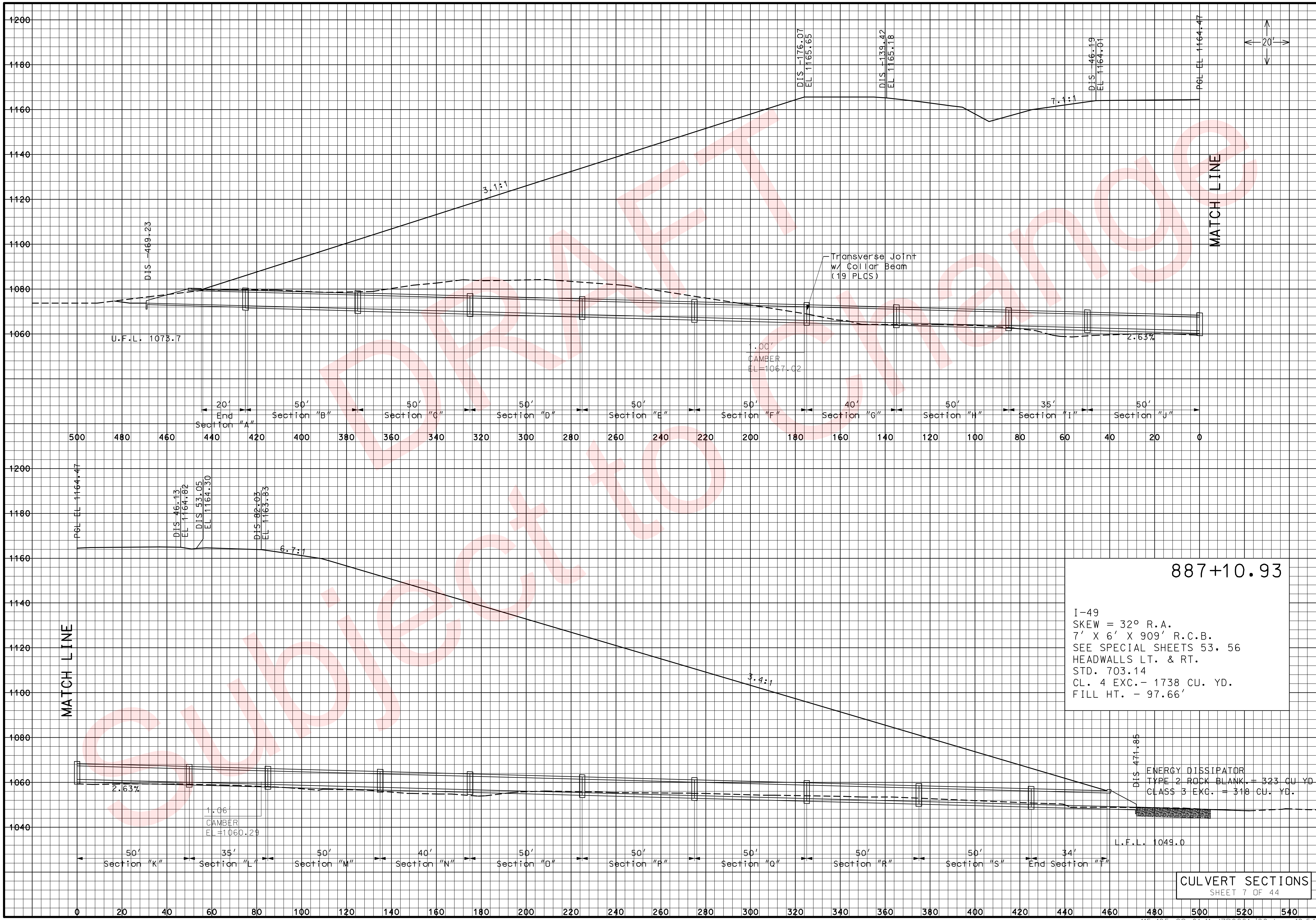
CULVERT SECTIONS
SHEET 6 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	120
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE
REV.

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



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 121
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

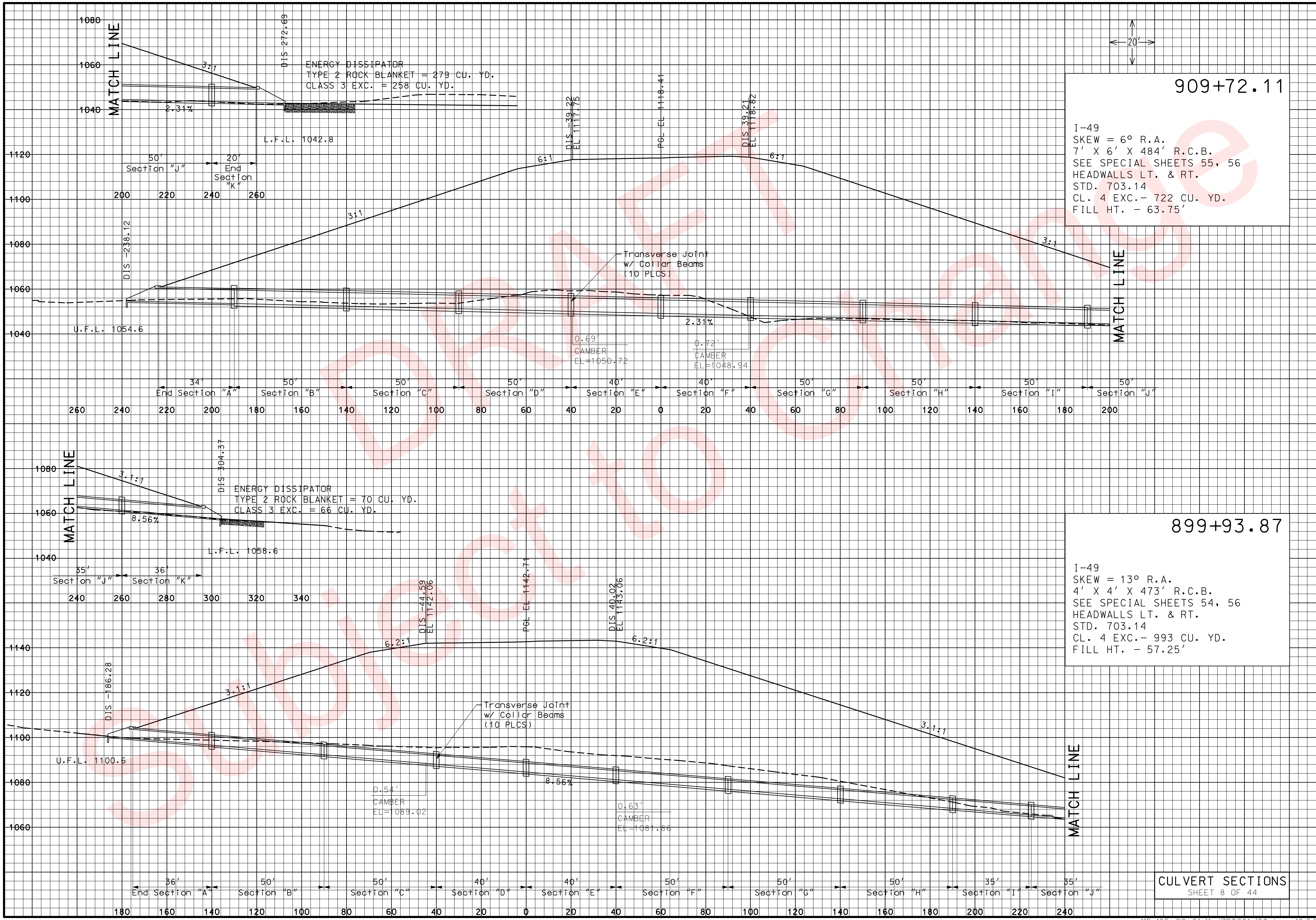
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

CULVERT SECTIONS
SHEET 7 OF 44

REV.

115-125_CS_01-11_J7P0601_i20.dgn 10:54:23 AM 02/04/2010



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 122
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

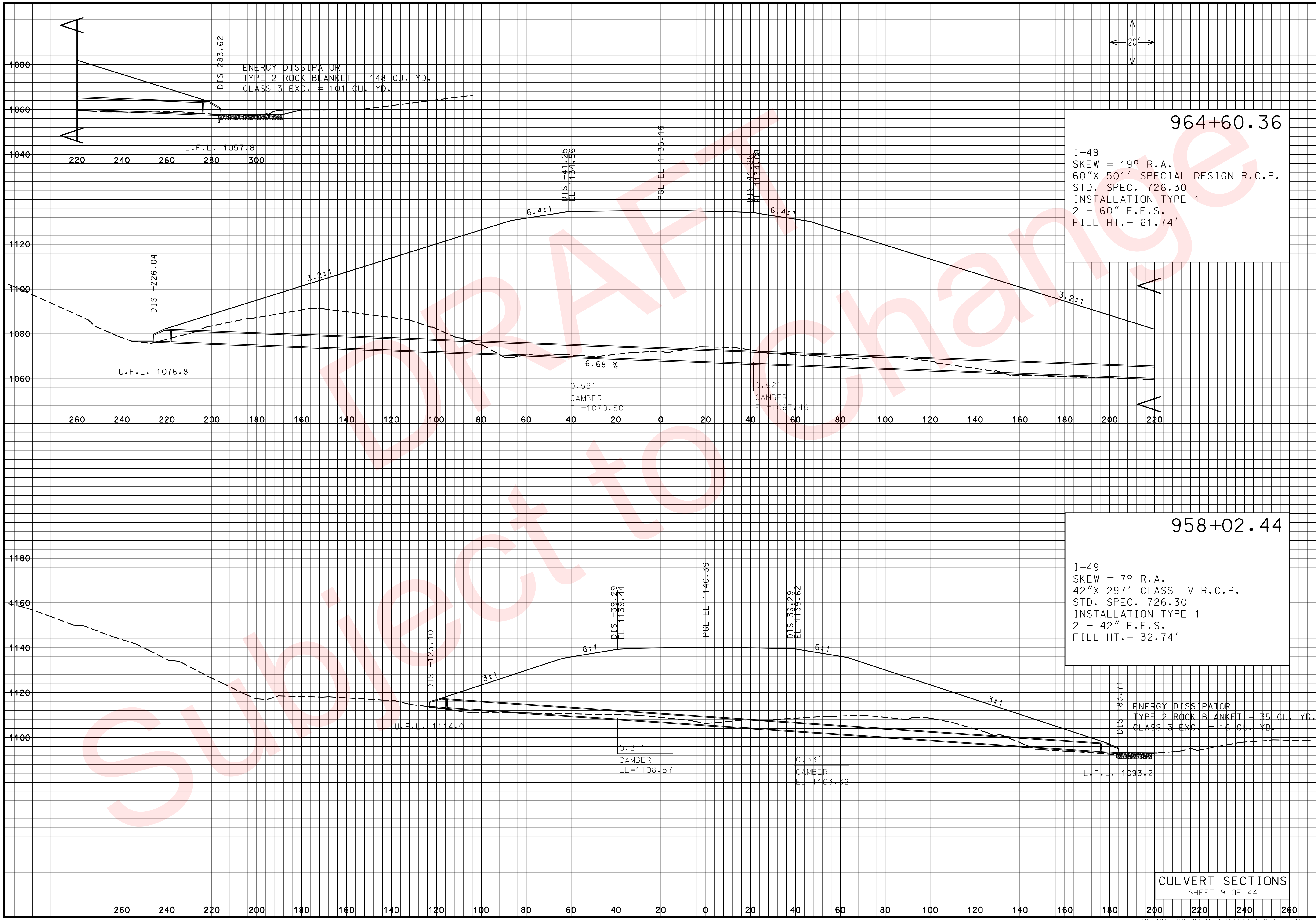
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

CULVERT SECTIONS

SHEET 8 OF 44

115-125_CS_01-11_J7P0601_i20.dgn 10:54:26 AM 02/04/2010



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 123
COUNTY	McDONALD
JOB NO.	J7P0601
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)

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

REV.

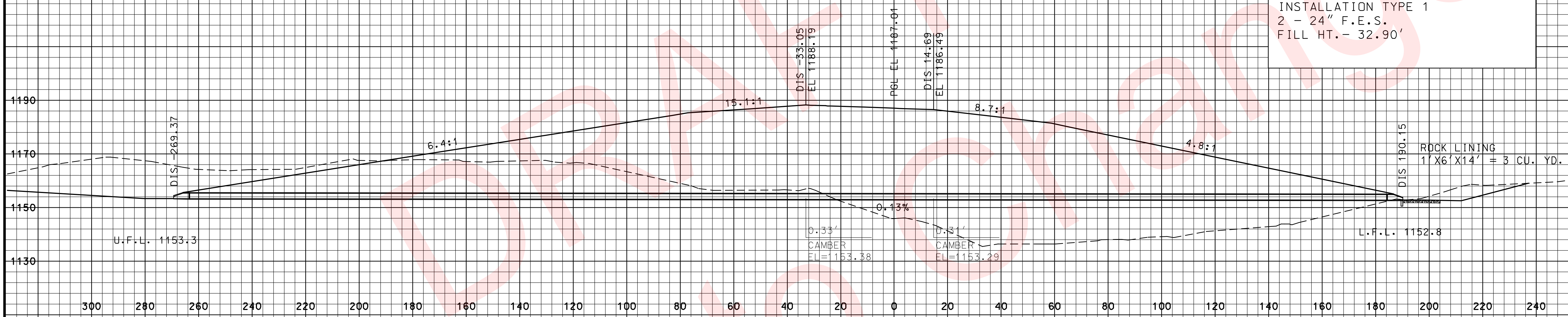
CULVERT SECTIONS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	124
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

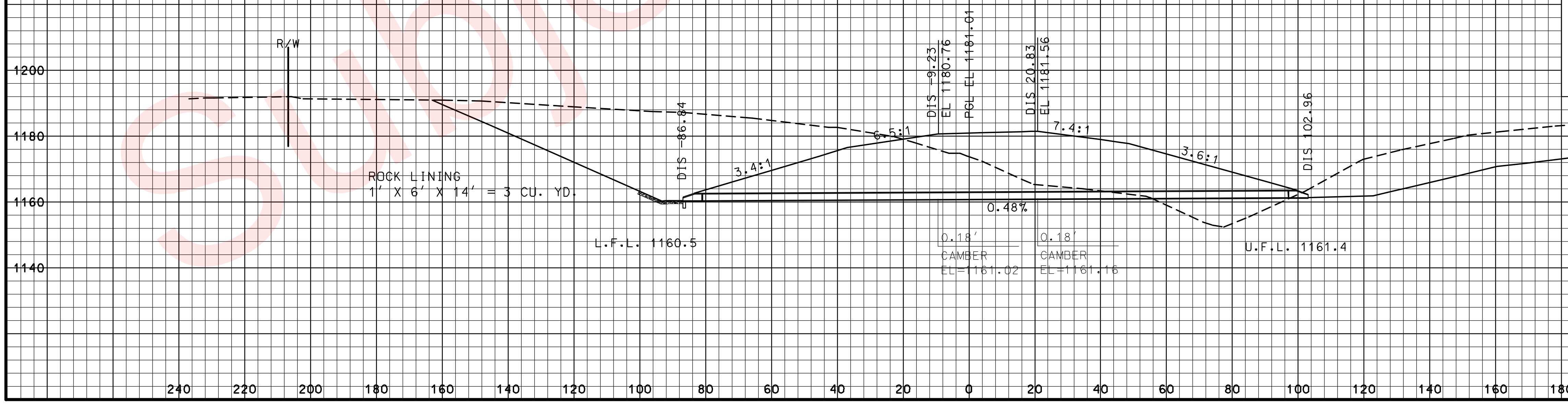
2012+30.00

RAMP 2
SKEW = 57° L.A.
24" X 453' CLASS IV R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
2 - 24" F.E.S.
FILL HT.- 32.90'



1009+04.71

RAMP 1
SKEW = 30° R.A.
24" X 183' CLASS III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
2 - 24" F.E.S.
FILL HT.- 18.32'



DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

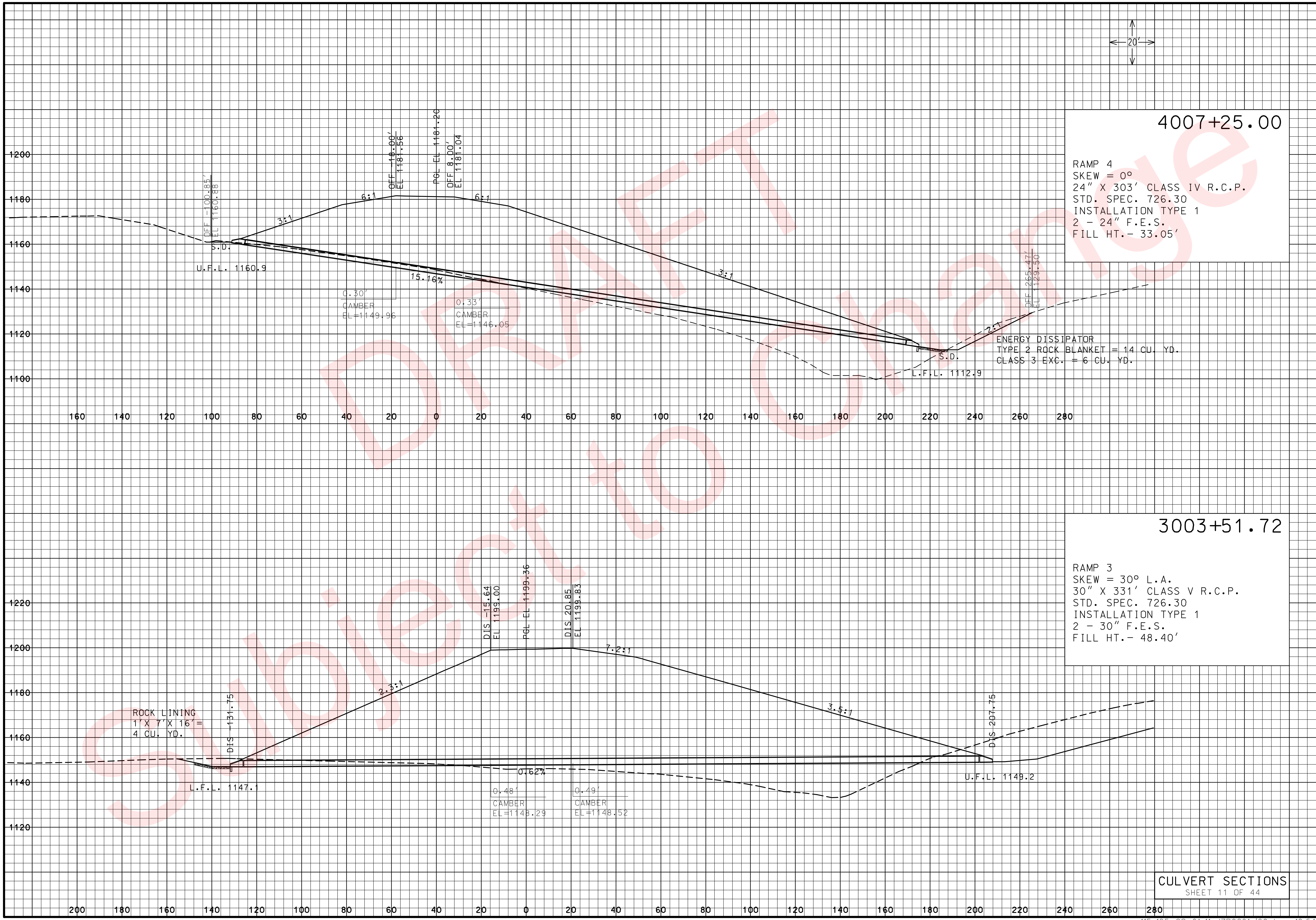
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

CULVERT SECTIONS

SHEET 10 OF 44

REV.



CULVERT SECTIONS
SHEET 11 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 125
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

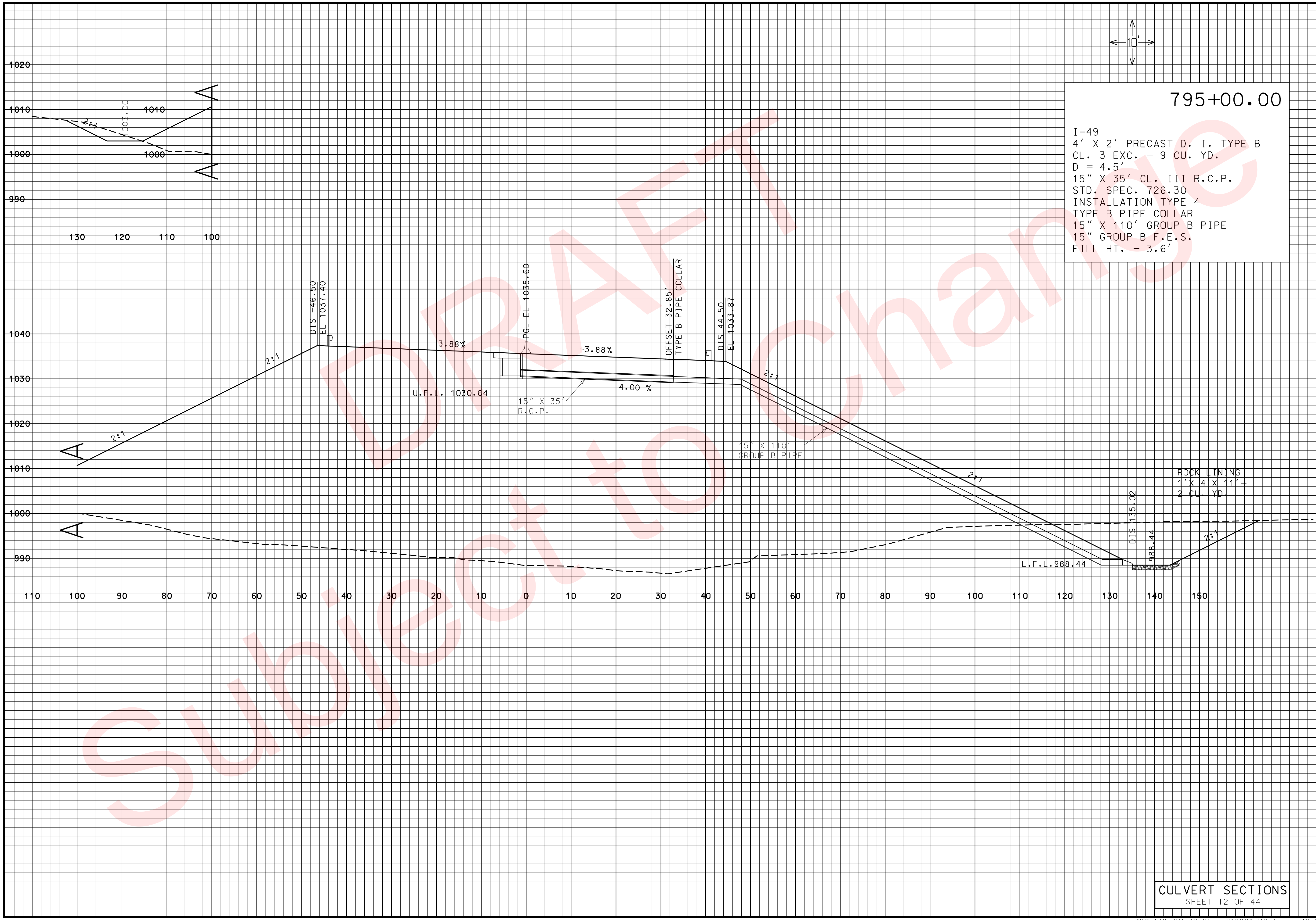
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

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

REV.



795+00.00

I-49
4' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 9 CU. YD.
D = 4.5'
15" X 35' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 110' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 3.6'

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	126
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

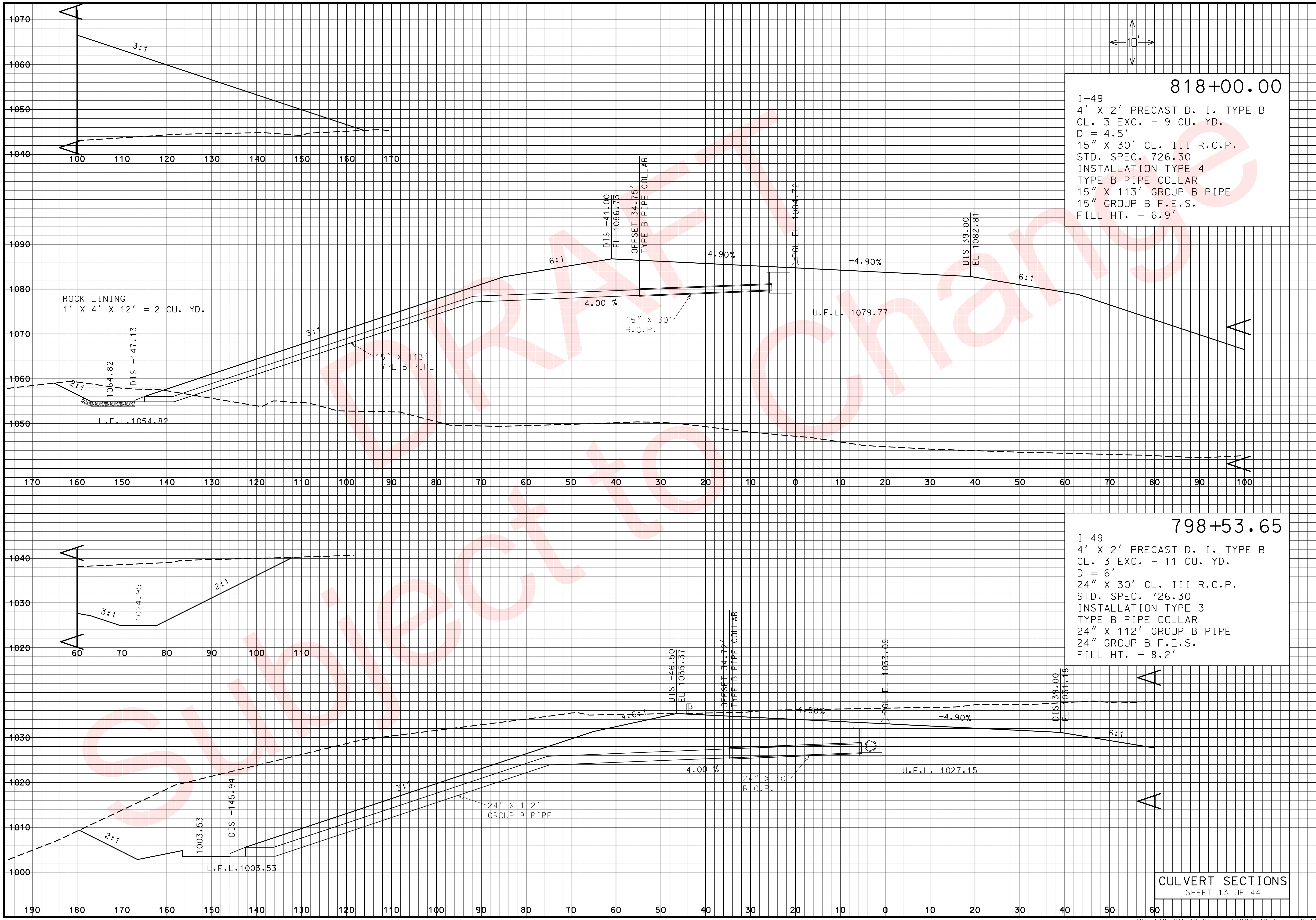
DATE

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

REV.

CULVERT SECTIONS

SHEET 12 OF 44



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 127
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

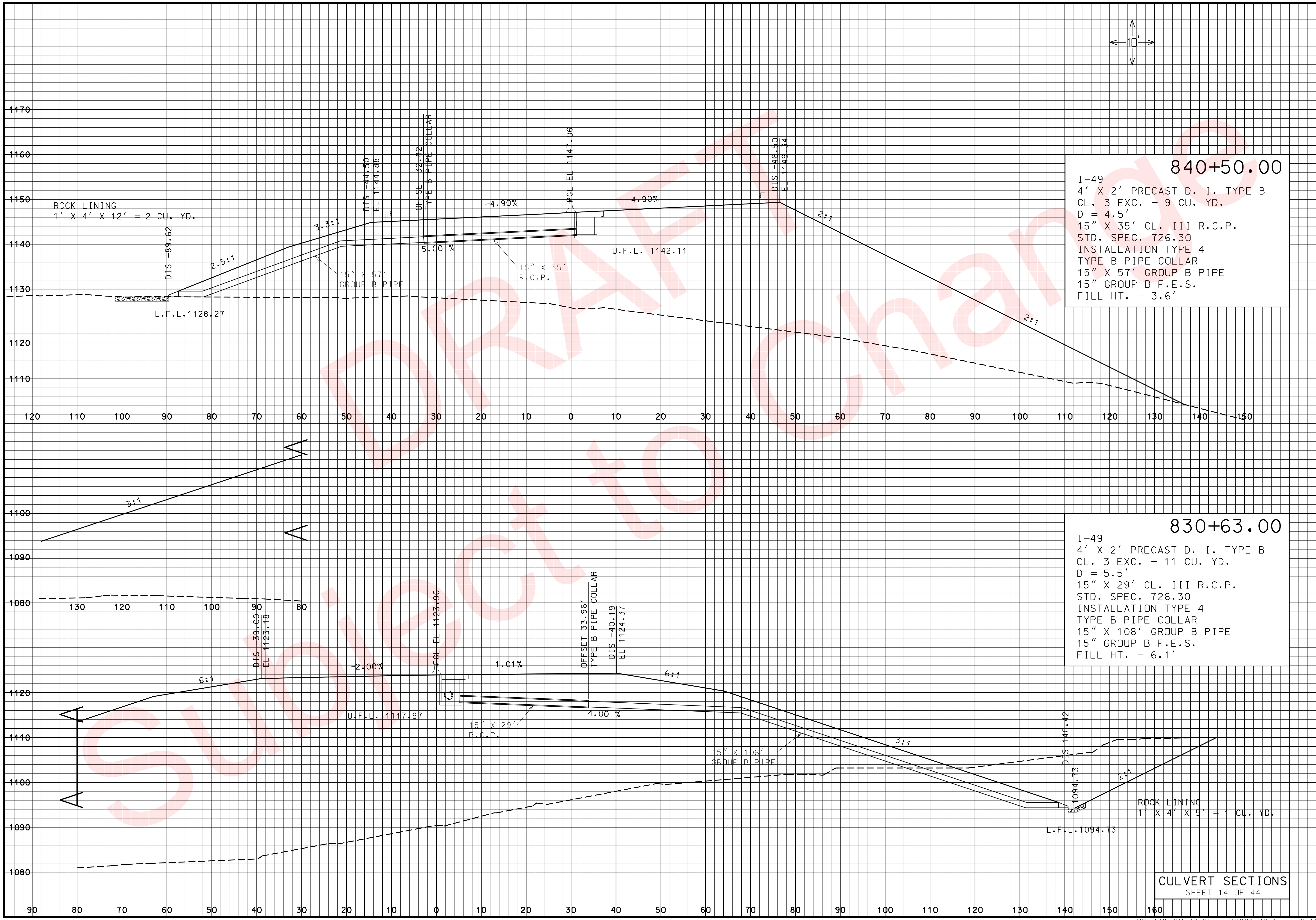
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

CULVERT SECTIONS
SHEET 13 OF 44

126-139_CS_12-25_J7P0601_i10.dgn 10:49:13 AM 02/04/2010



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	128
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

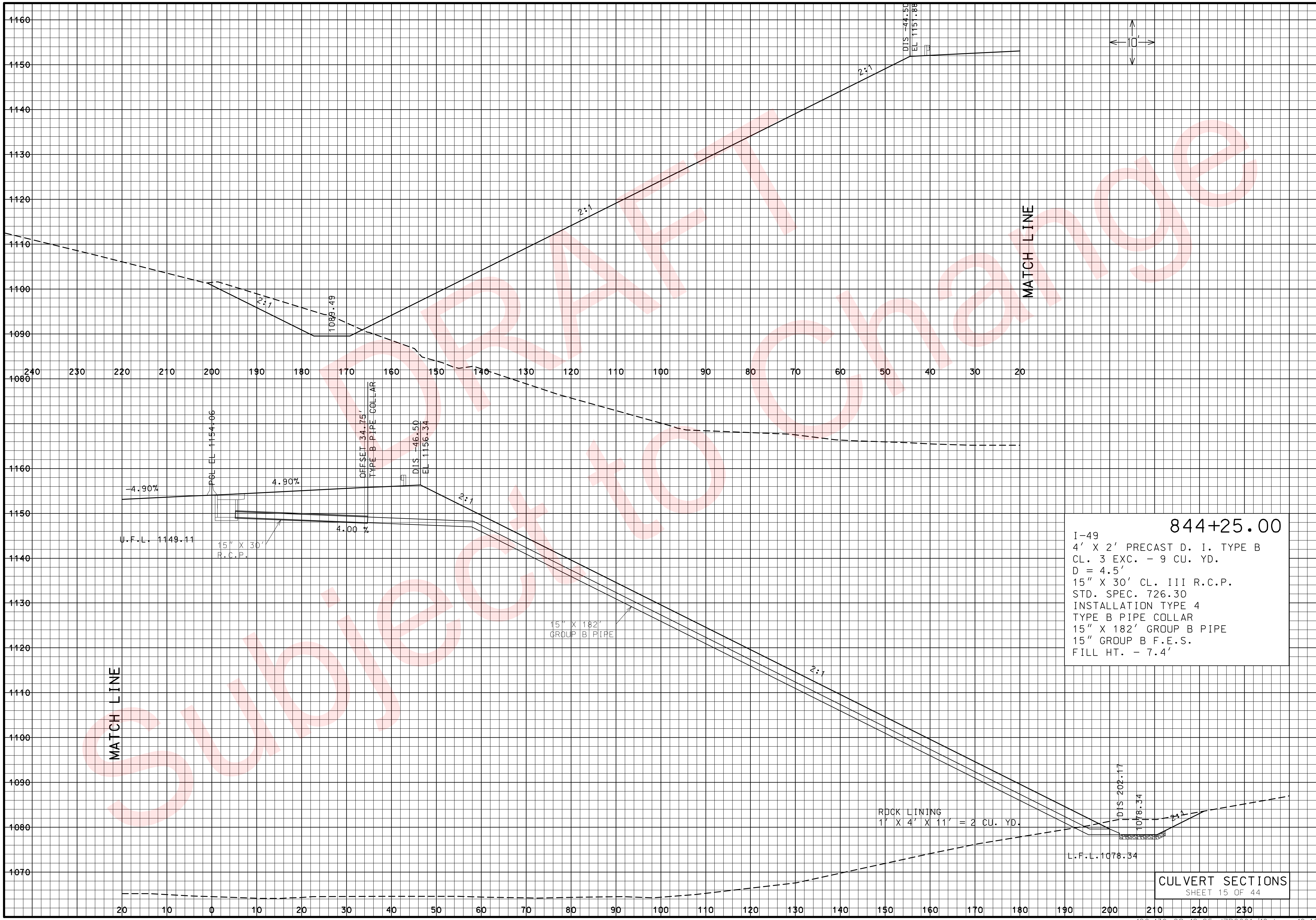
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

CULVERT SECTIONS
SHEET 14 OF 44



844+25.00

I-49
4' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 9 CU. YD.
D = 4.5'
15" X 30' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 182' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 7.4'

CULVERT SECTIONS
SHEET 15 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 129
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

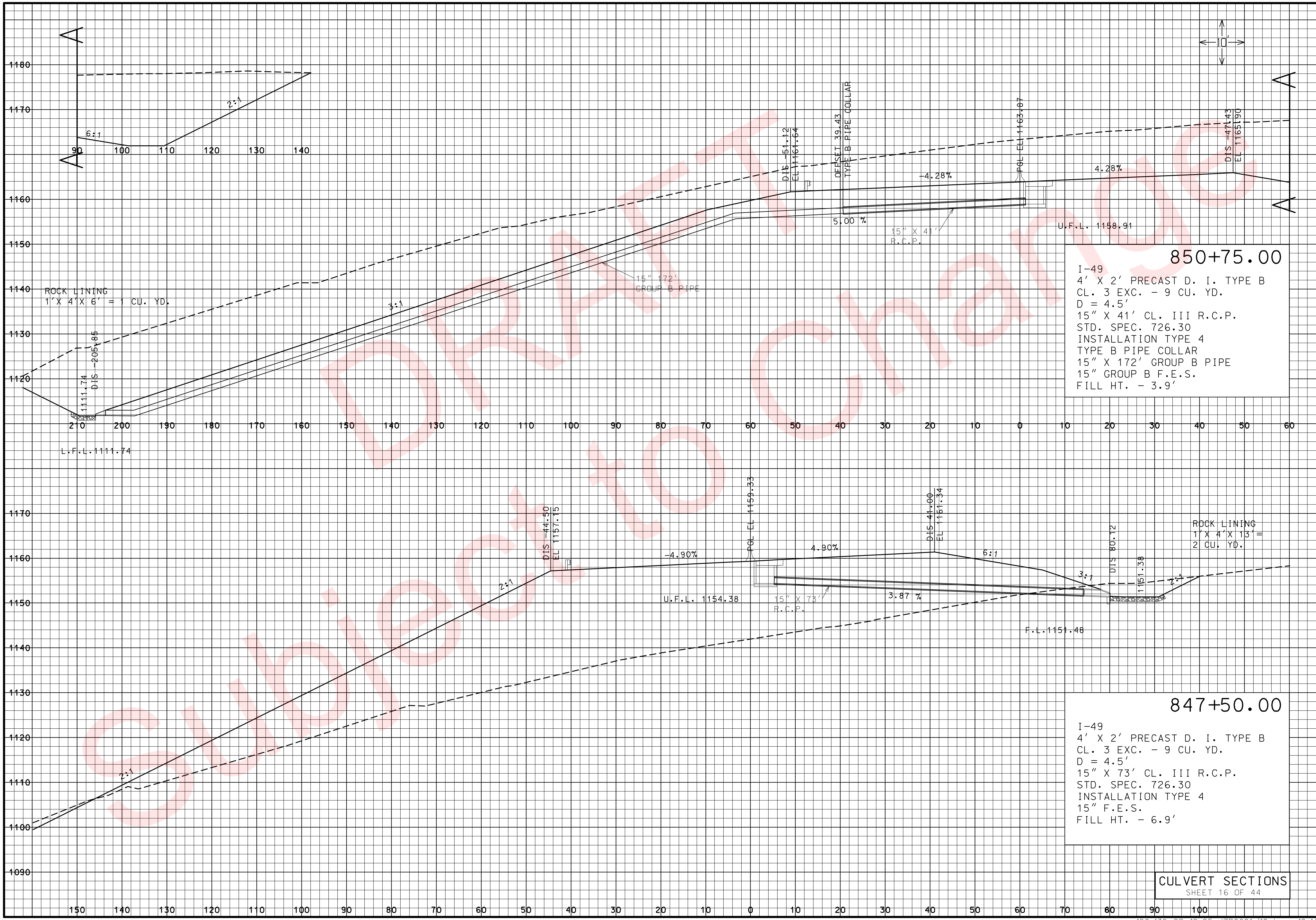
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

126-139_CS_12-25_J7P0601_i10.dgn 10:49:17 AM 02/04/2010



850+75.00

I-49
4' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 9 CU. YD.
D = 4.5'
15" X 41' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 172' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 3.9'

847+50.00

I-49
4' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 9 CU. YD.
D = 4.5'
15" X 73' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 6.9'

CULVERT SECTIONS
SHEET 16 OF 44

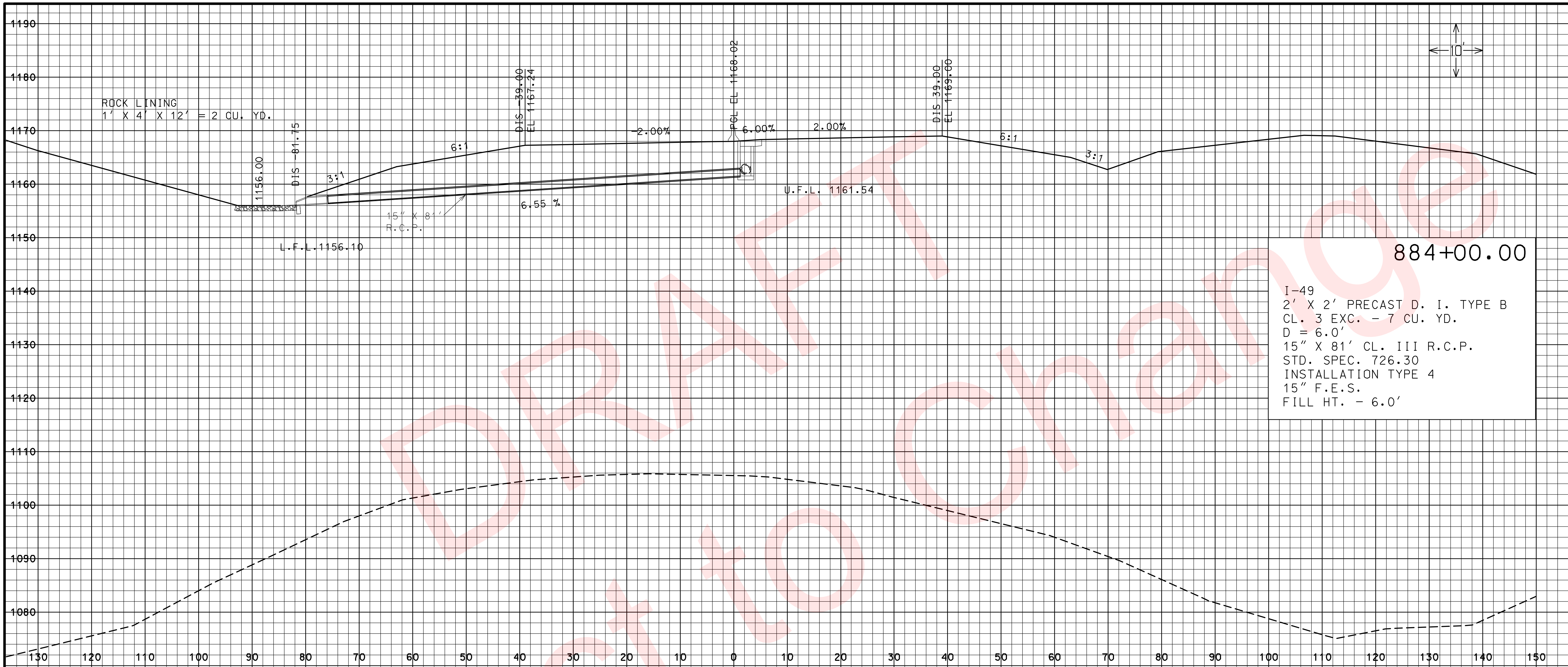
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	130
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

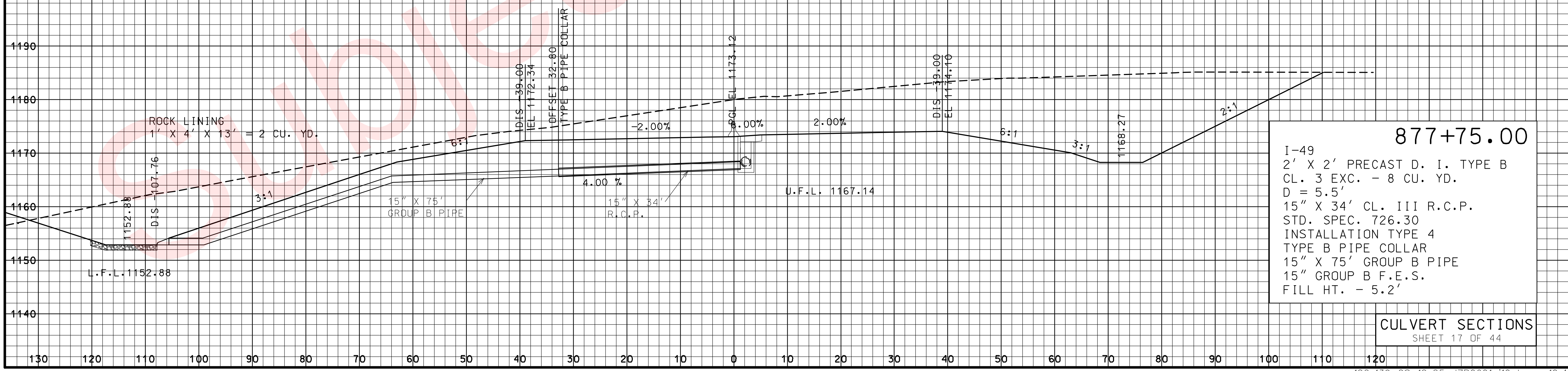
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



884+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 6.0'
15" X 81' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 6.0'



877+75.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 8 CU. YD.
D = 5.5'
15" X 34' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 75' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 5.2'

CULVERT SECTIONS
SHEET 17 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 131
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

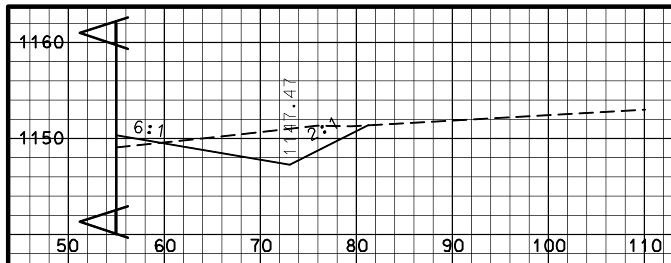
REV.

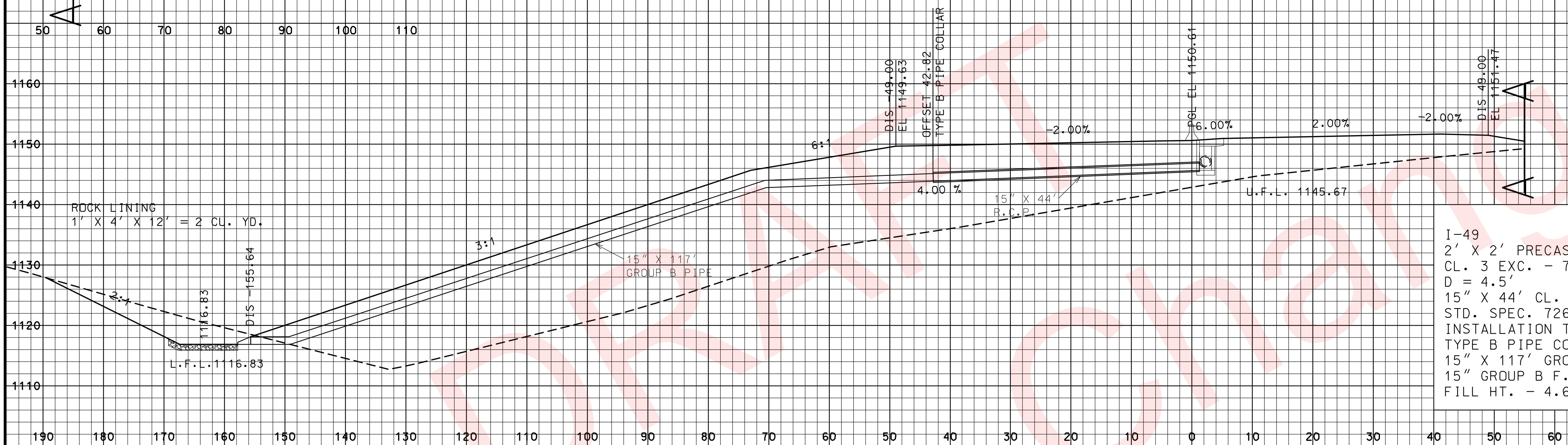
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

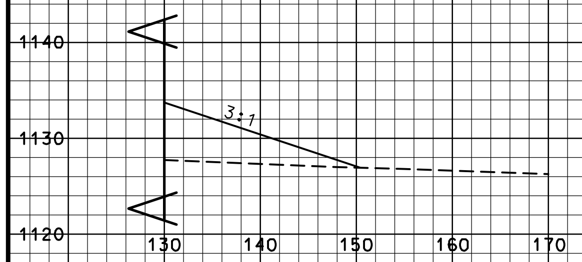
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

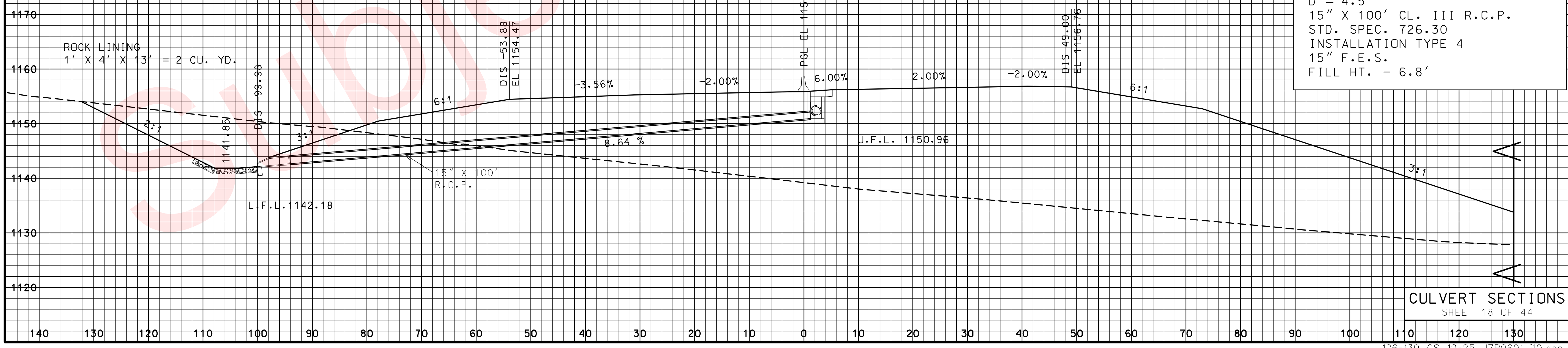




896+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 44' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 117' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 4.6'





893+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 100' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 6.8'

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	132
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

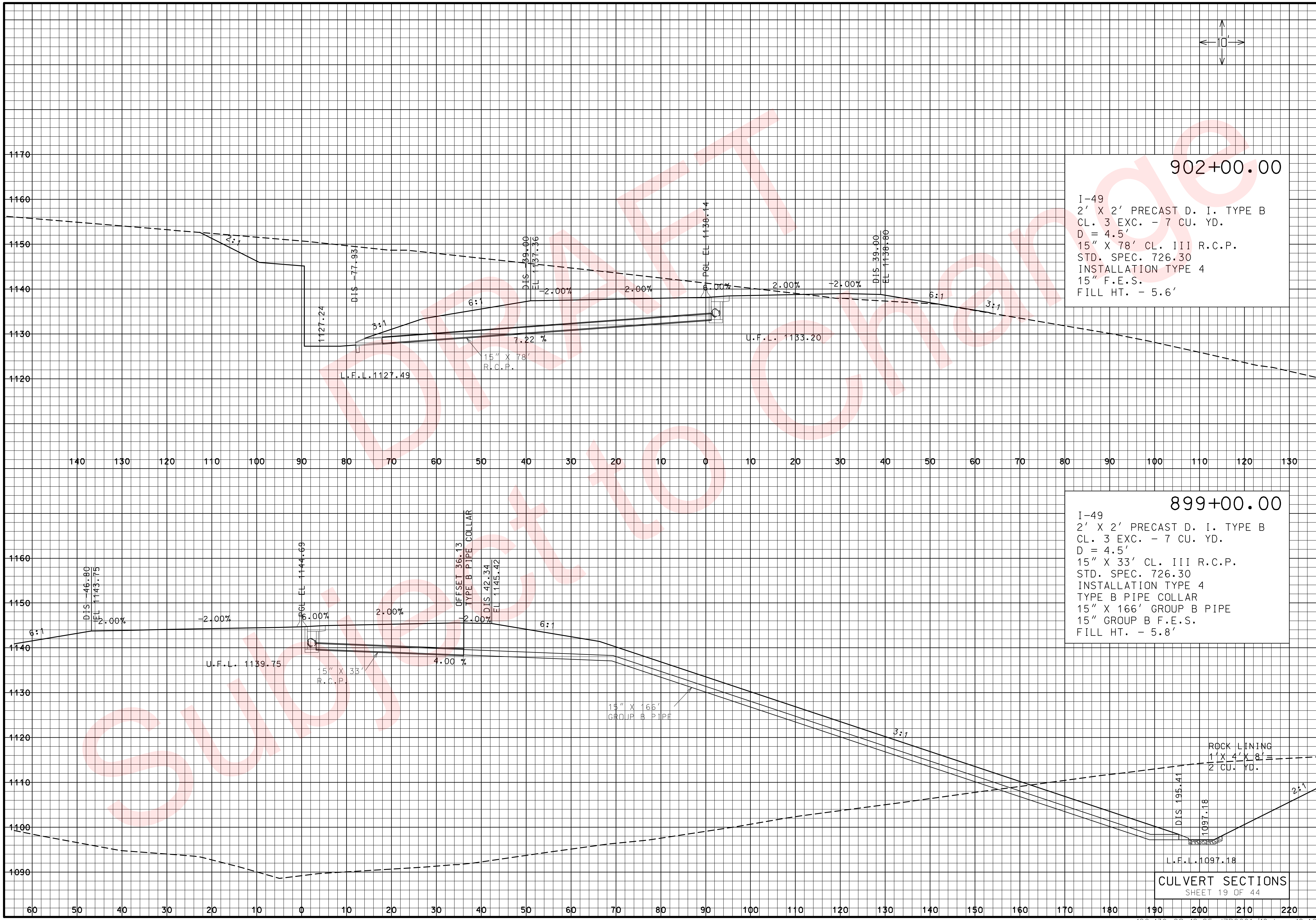
DATE

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

REV.

CULVERT SECTIONS

SHEET 18 OF 44



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 133
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

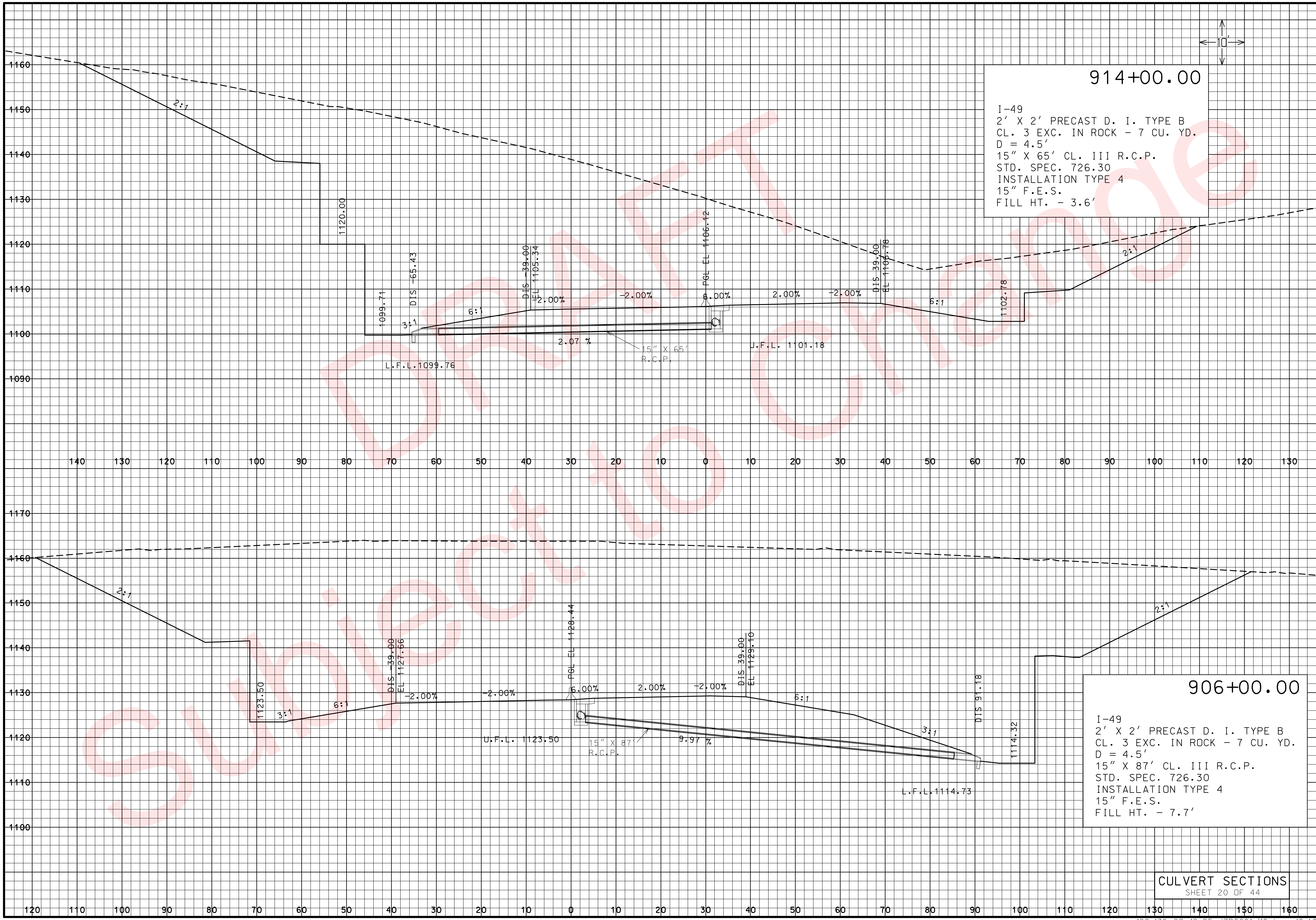
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 134
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

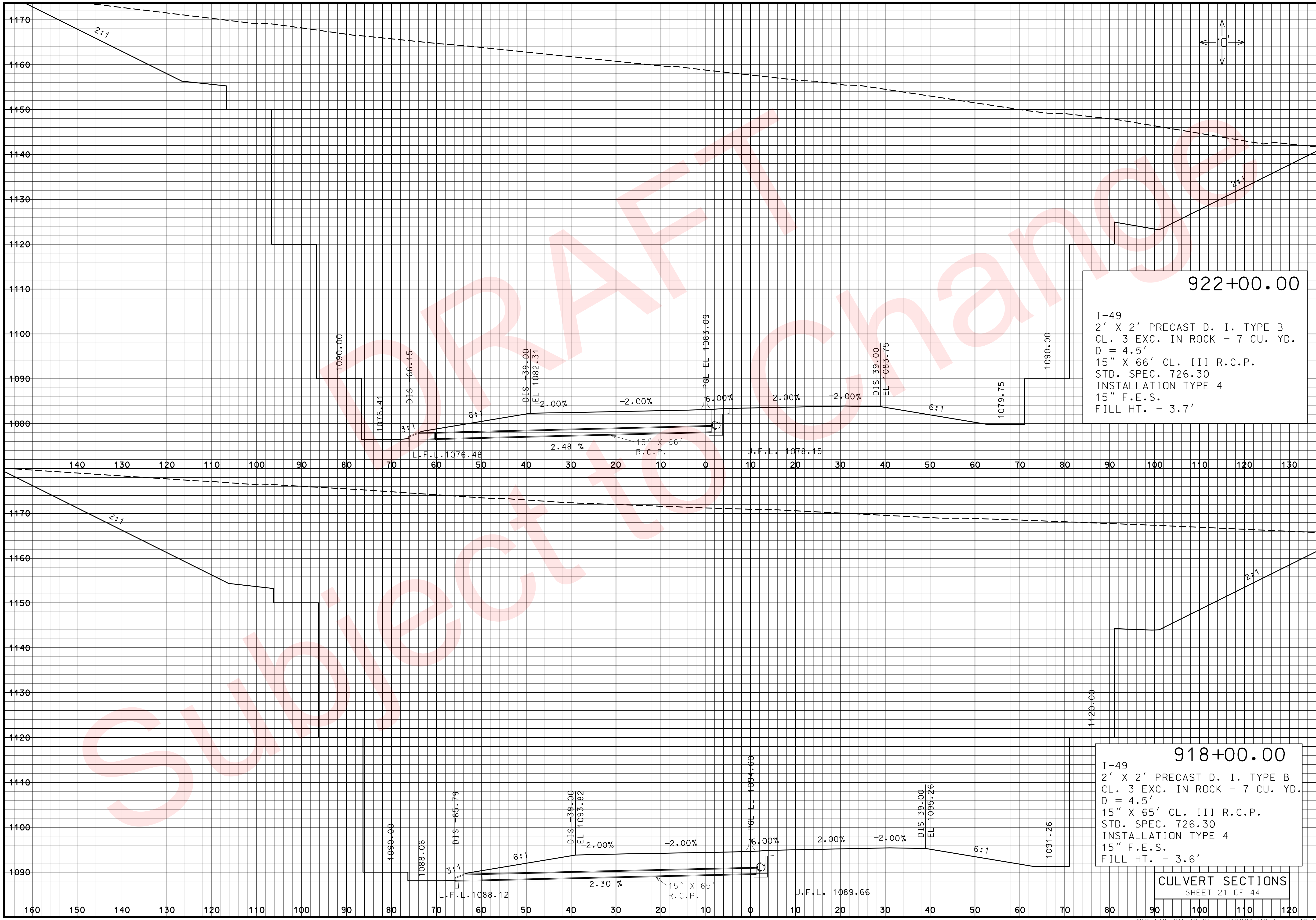
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

CULVERT SECTIONS
SHEET 20 OF 44

126-139_CS_12-25_J7P0601_i10.dgn 10:49:29 AM 02/04/2010



922+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. IN ROCK - 7 CU. YD.
D = 4.5'
15" X 66' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 3.7'

918+00.00

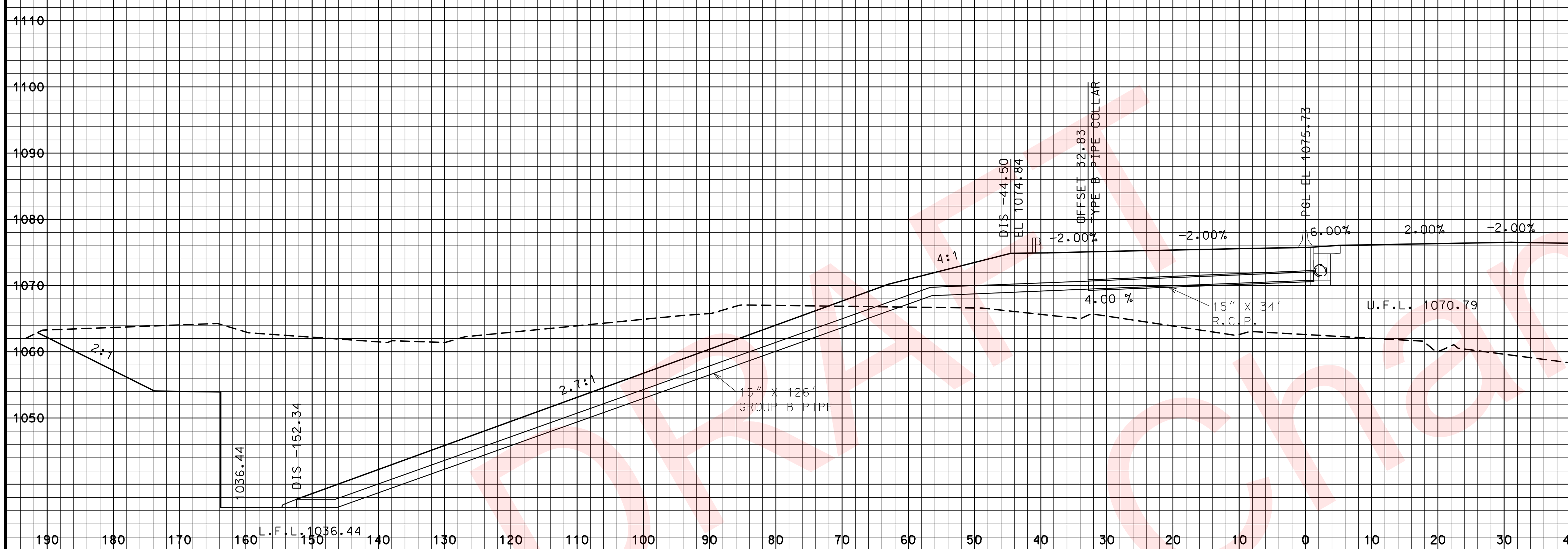
I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. IN ROCK - 7 CU. YD.
D = 4.5'
15" X 65' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 3.6'

CULVERT SECTIONS
SHEET 21 OF 44

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	135
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

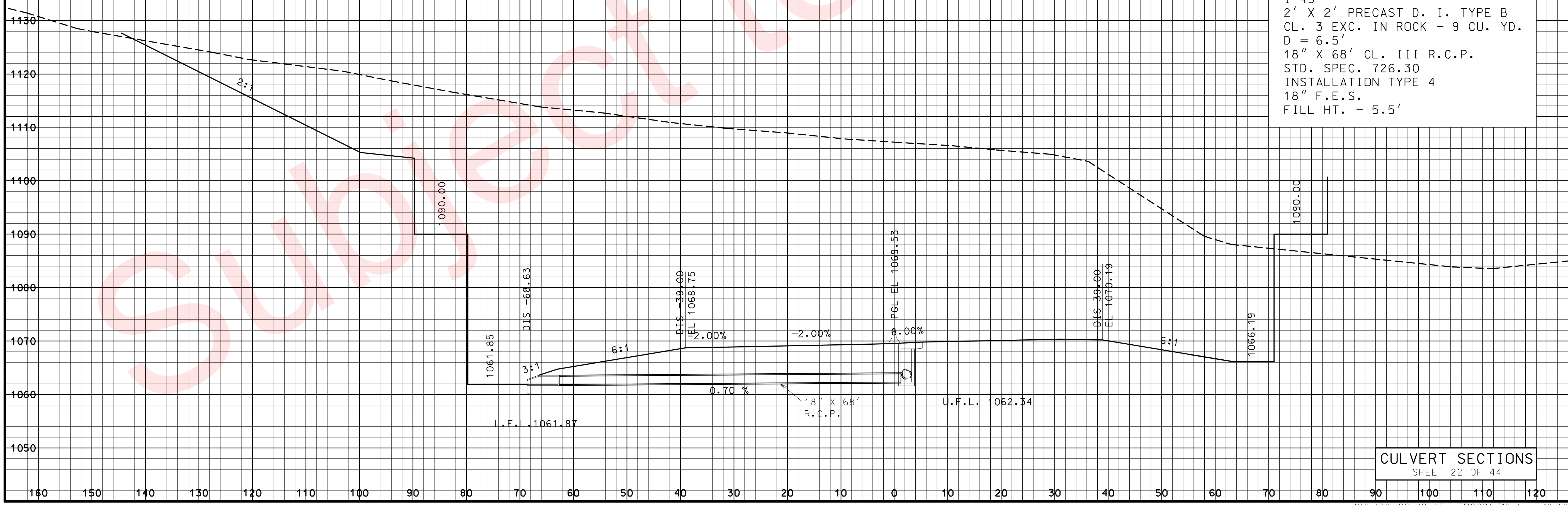
DESCRIPTION
DATE
REV.

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



934+25.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 34' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 126' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 4.4'



929+41.92

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. IN ROCK - 9 CU. YD.
D = 6.5'
18" X 68' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
18" F.E.S.
FILL HT. - 5.5'

CULVERT SECTIONS
SHEET 22 OF 44

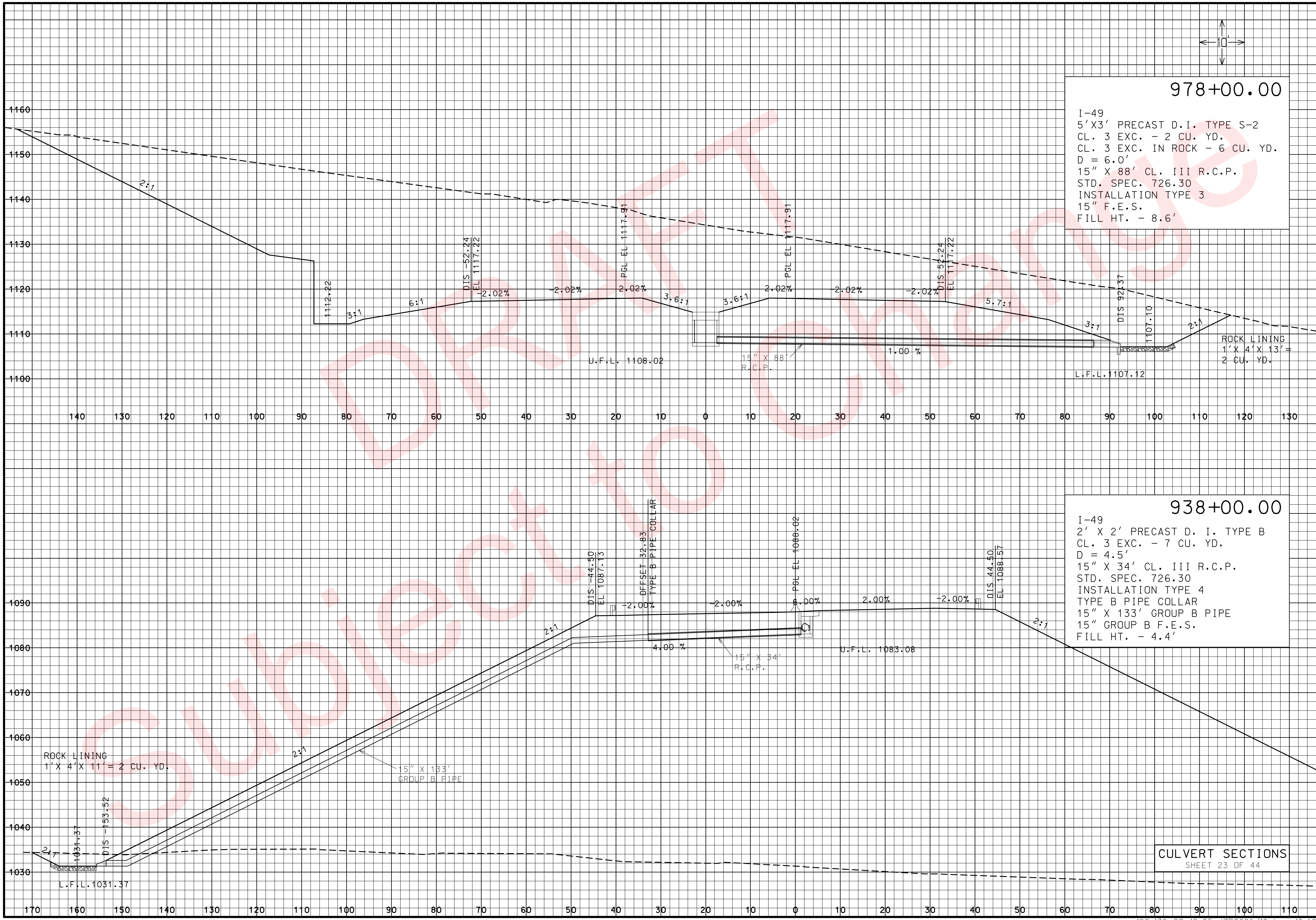
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 136
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



978+00.00

I-49
5'X3' PRECAST D.I. TYPE S-2
CL. 3 EXC. - 2 CU. YD.
CL. 3 EXC. IN ROCK - 6 CU. YD.
D = 6.0'
15" X 88' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 3
15" F.E.S.
FILL HT. - 8.6'

938+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 34' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 133' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 4.4'

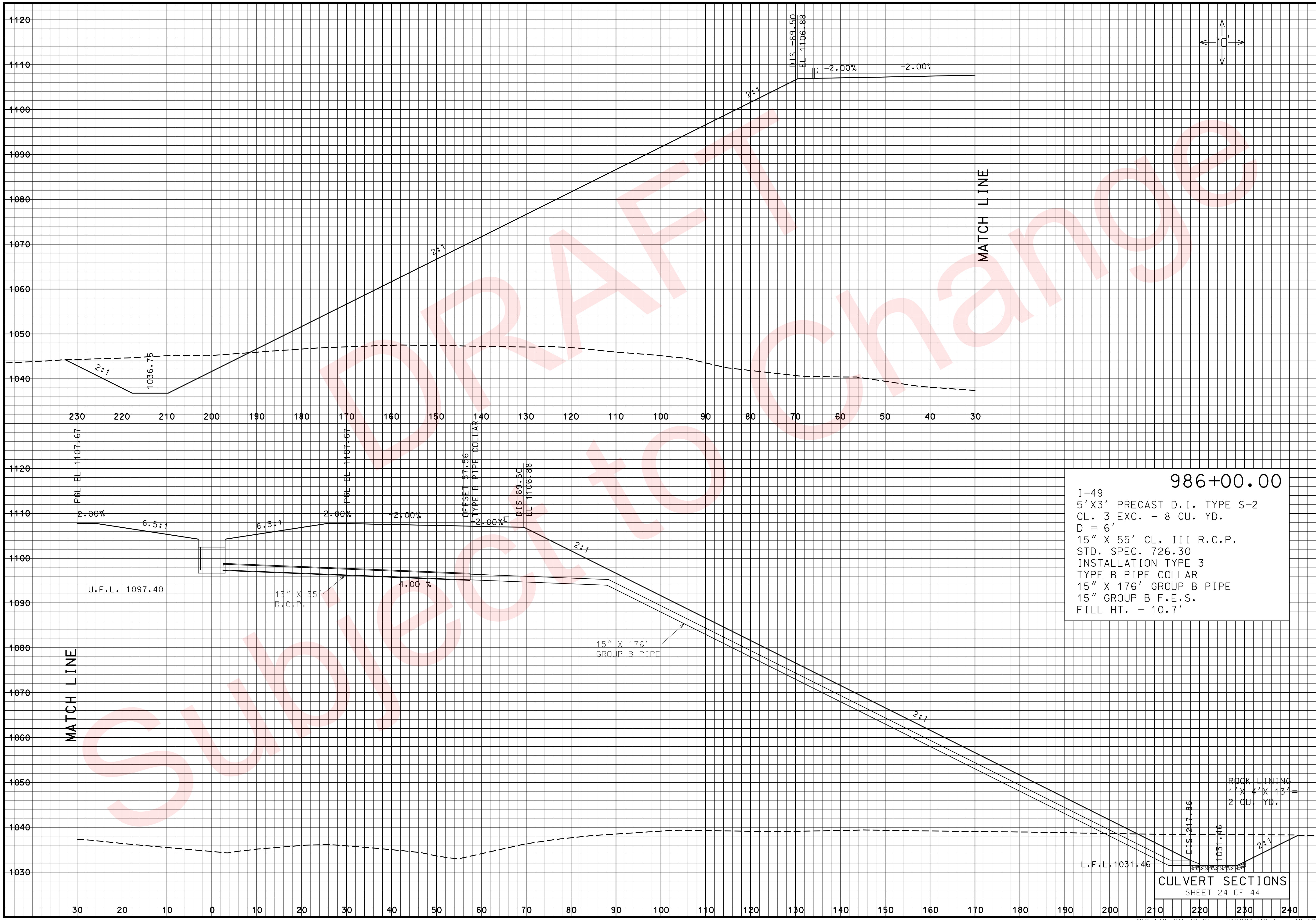
DRAFT Subject to Change

CULVERT SECTIONS
SHEET 23 OF 44

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 137
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE
REV.

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



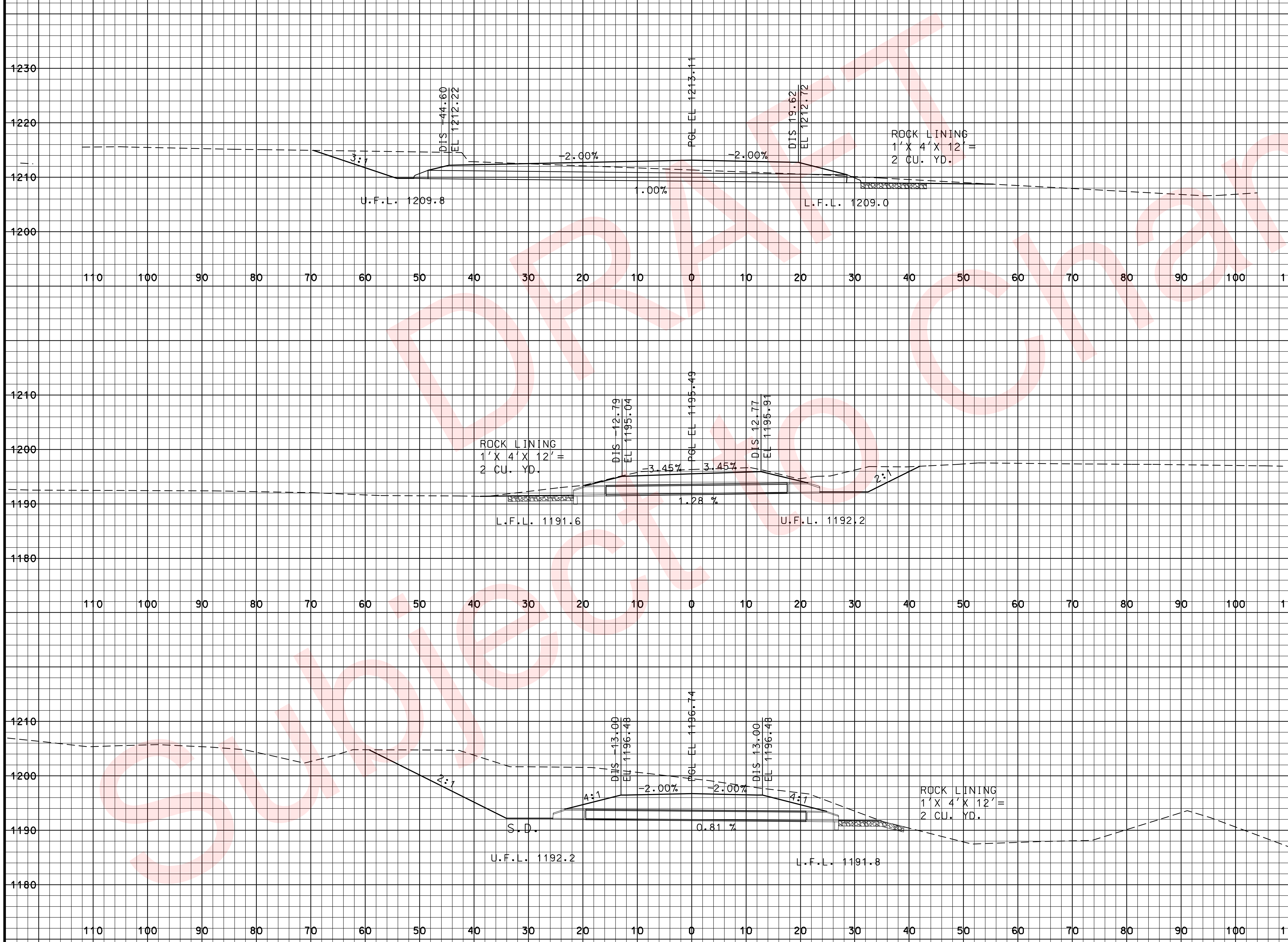
DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 138
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



10'

710+64.87

SUMNER CO. RD.
18" X 77' GROUP C PIPE
SKEW= 21° R.A.
2 - 18" GROUP C F.E.S.
FILL HT. - 2.3'

60+29.00

RTE. 90
18" X 41' GROUP B PIPE
SKEW= 6° R.A
2 - 18" GROUP B F.E.S.
FILL HT. - 2.2'

56+50.00

RTE. 90
18" X 48' GROUP B PIPE
SKEW = 0°
2 - 18" GROUP B F.E.S.
FILL HT. - 3.0'

CULVERT SECTIONS

SHEET 25 OF 44

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 139
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

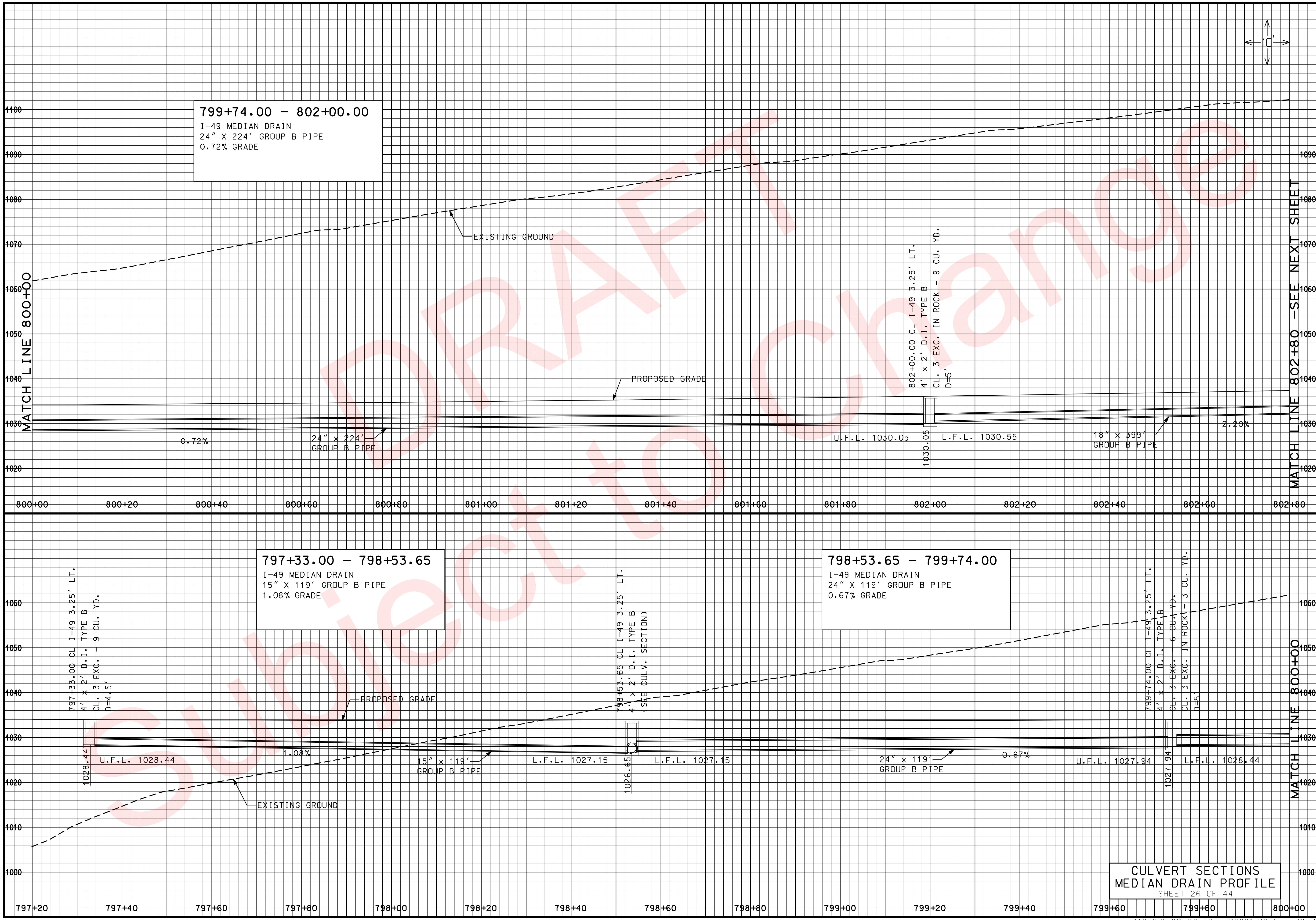
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 26 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 140
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

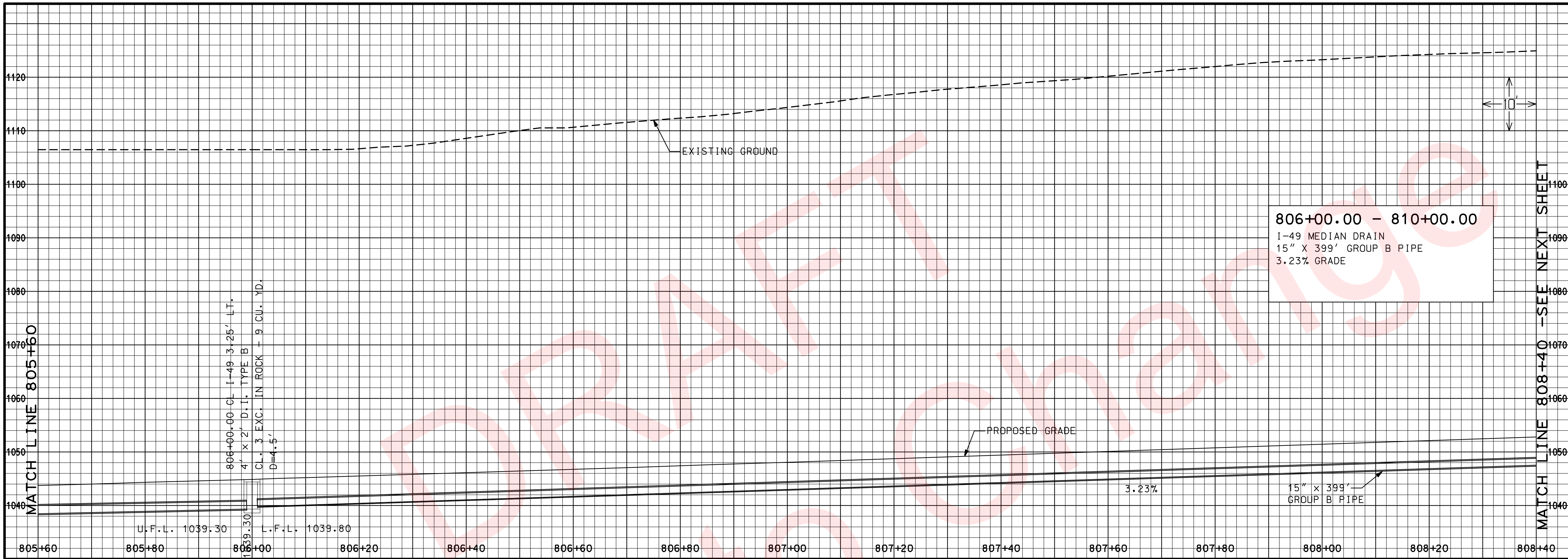
REV.

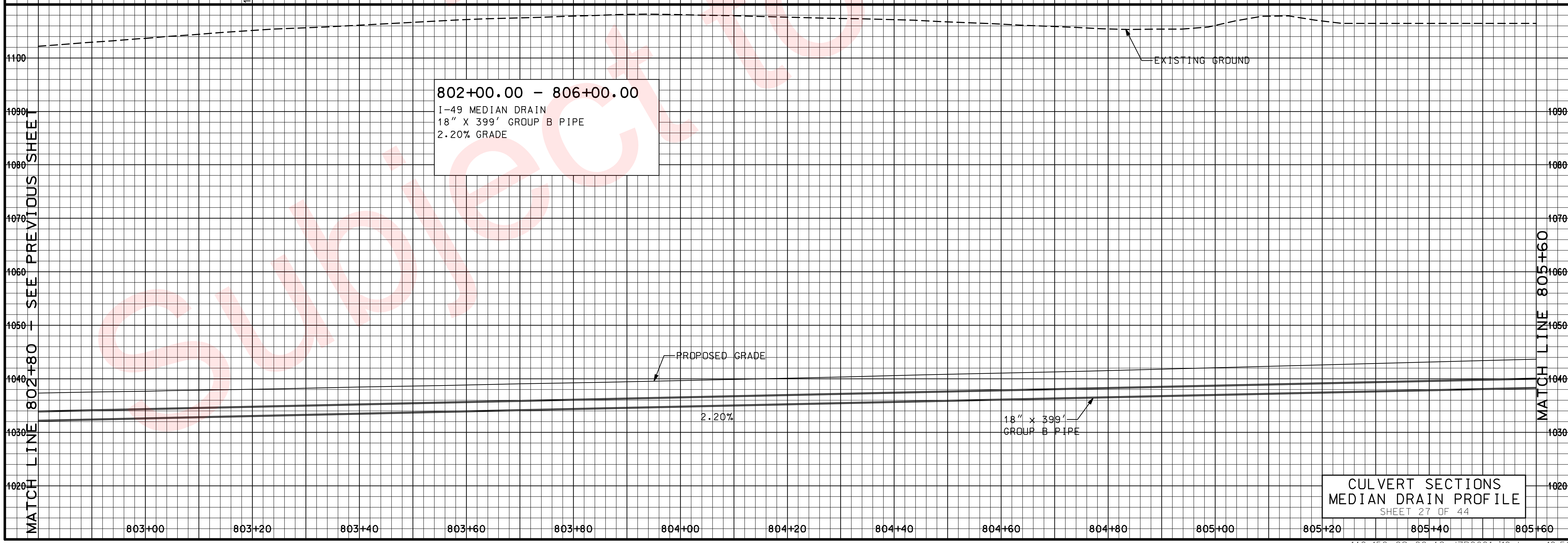
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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.





CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 27 OF 44

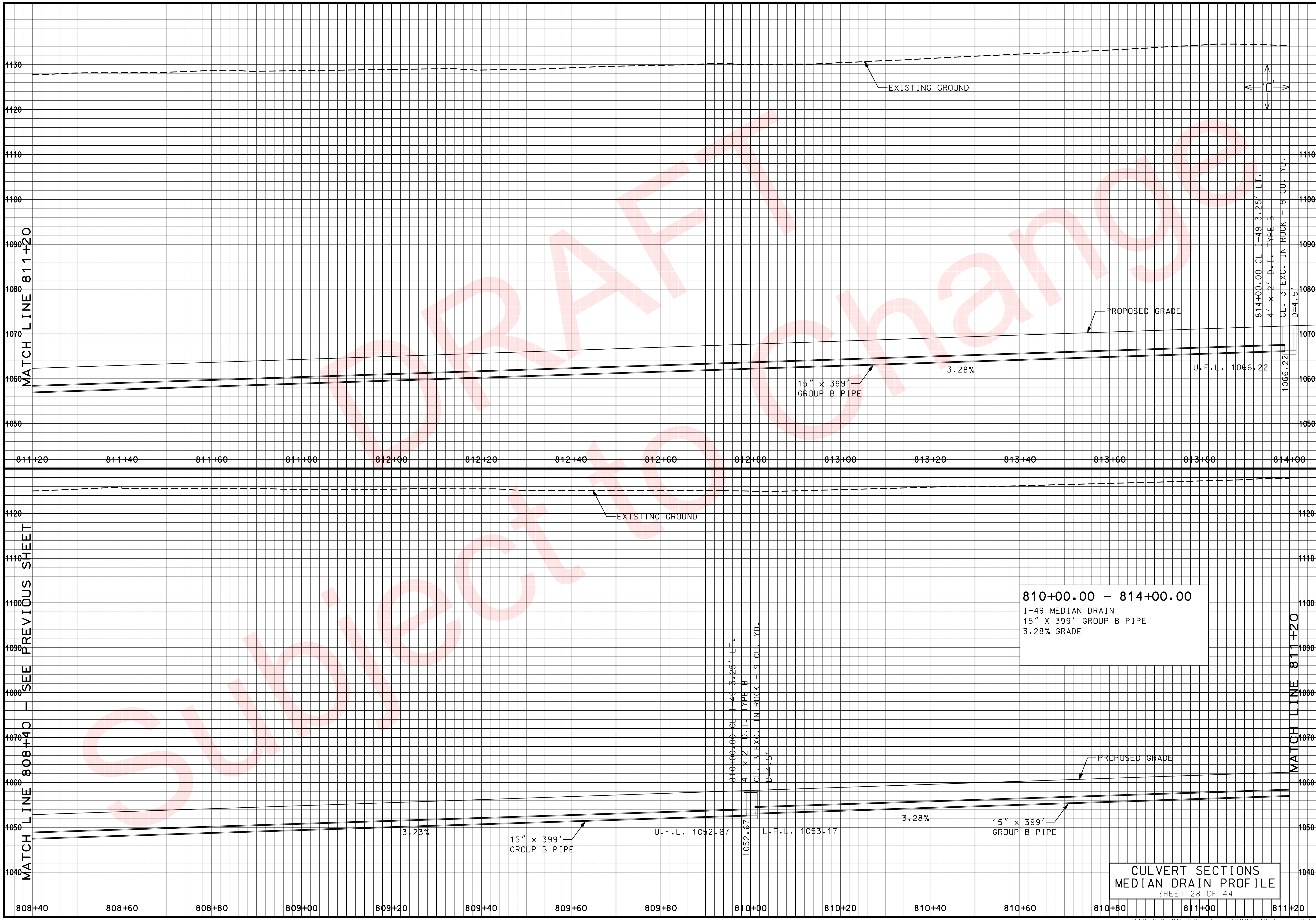
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 141
COUNTY McDONALD	
JOB NO. J7P0601	
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)

REV.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE

SHEET 28 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 142
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

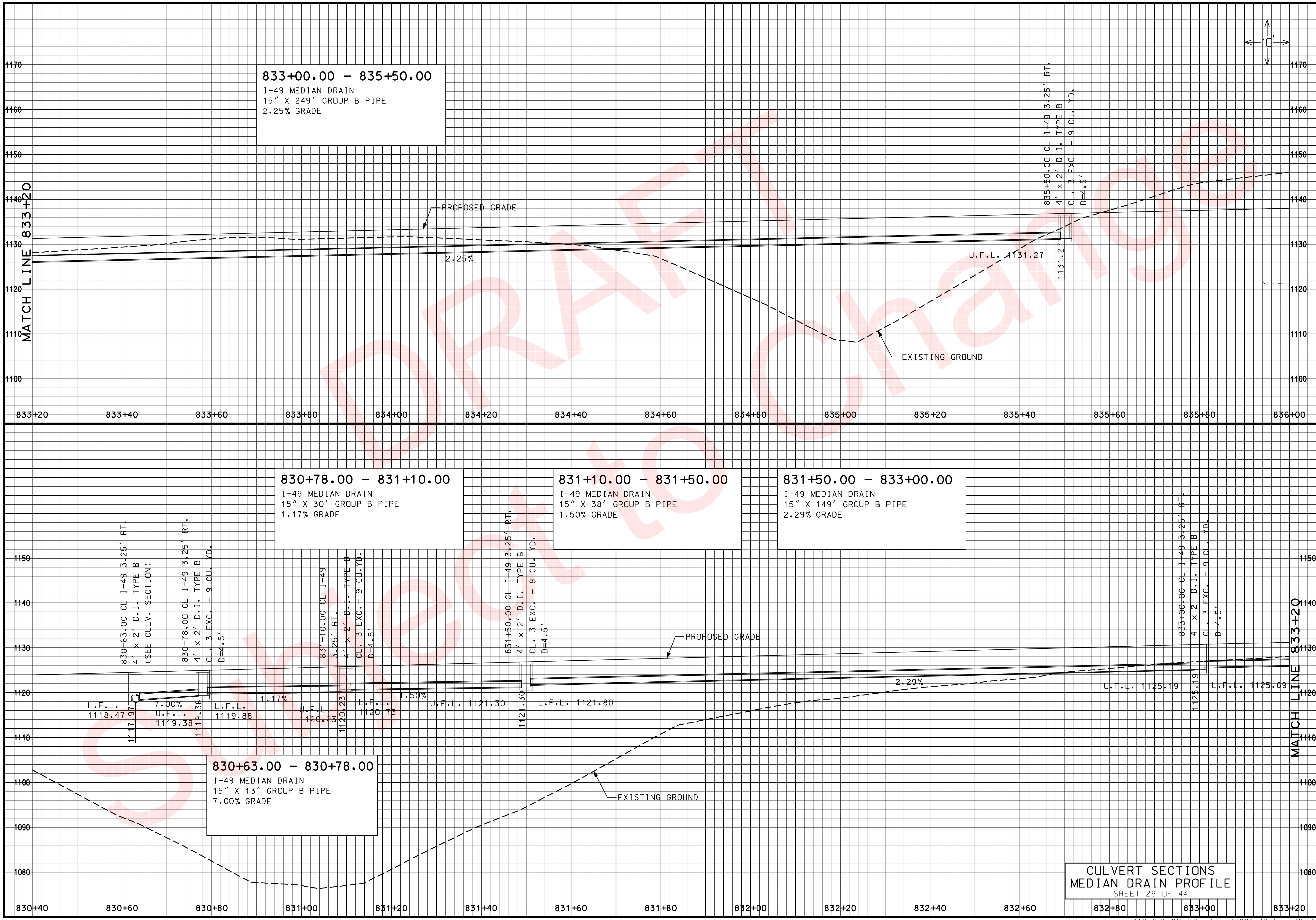
DESCRIPTION

DATE

REV.

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.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 29 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 143
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

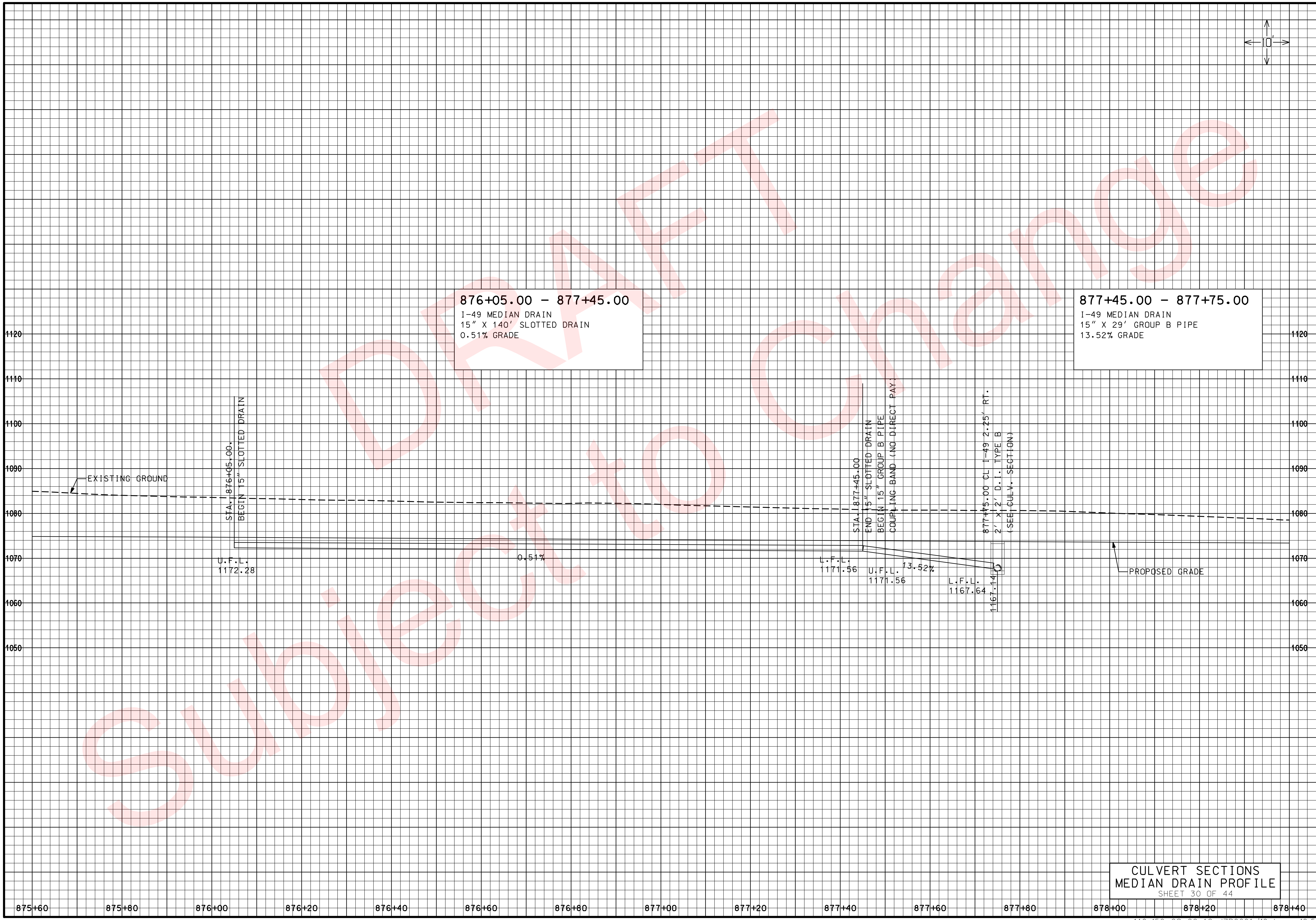
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

REV.

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



CULVERT SECTIONS
MEDIAN DRAIN PROFILE

SHEET 30 OF 44

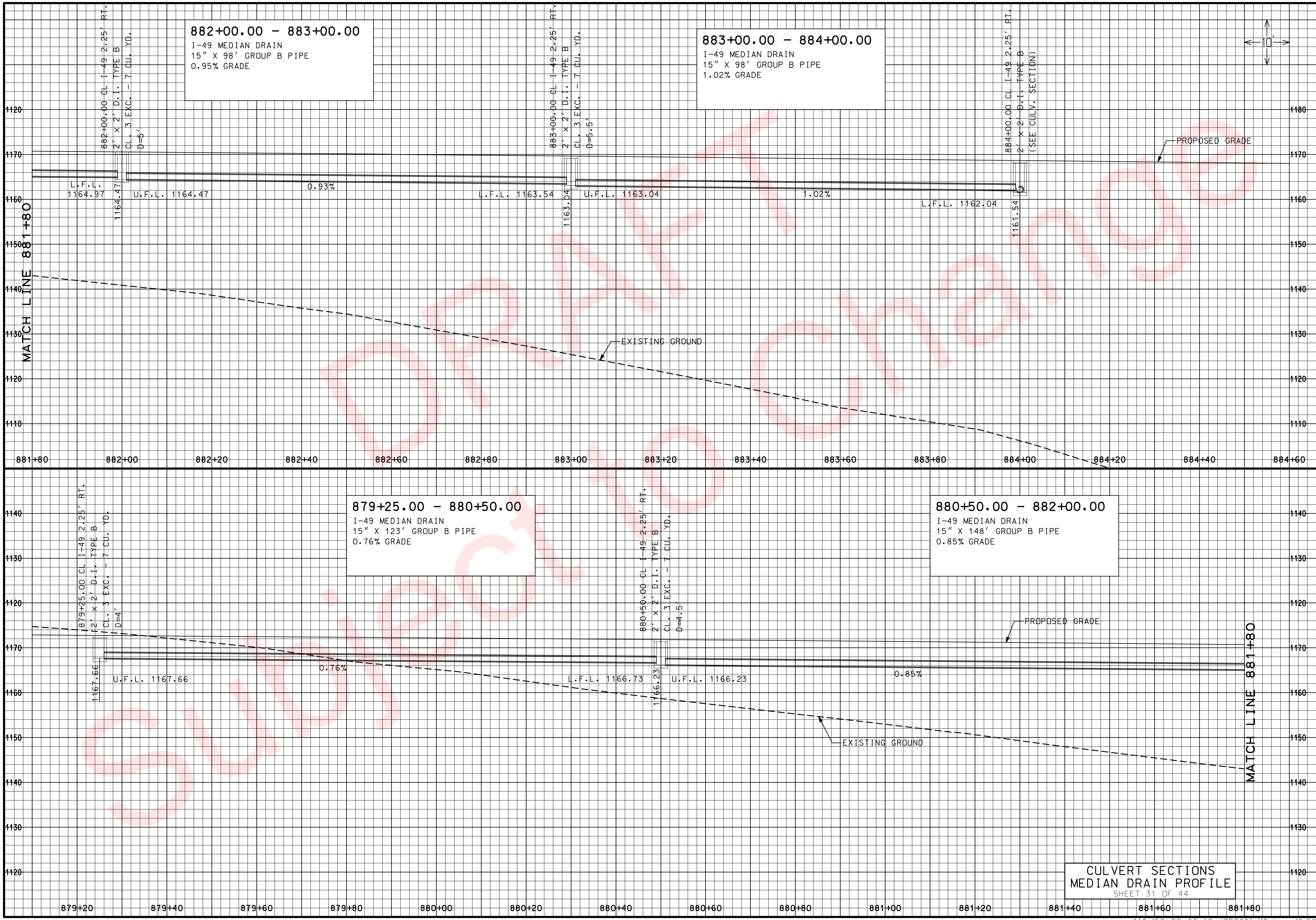
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	144
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 31 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

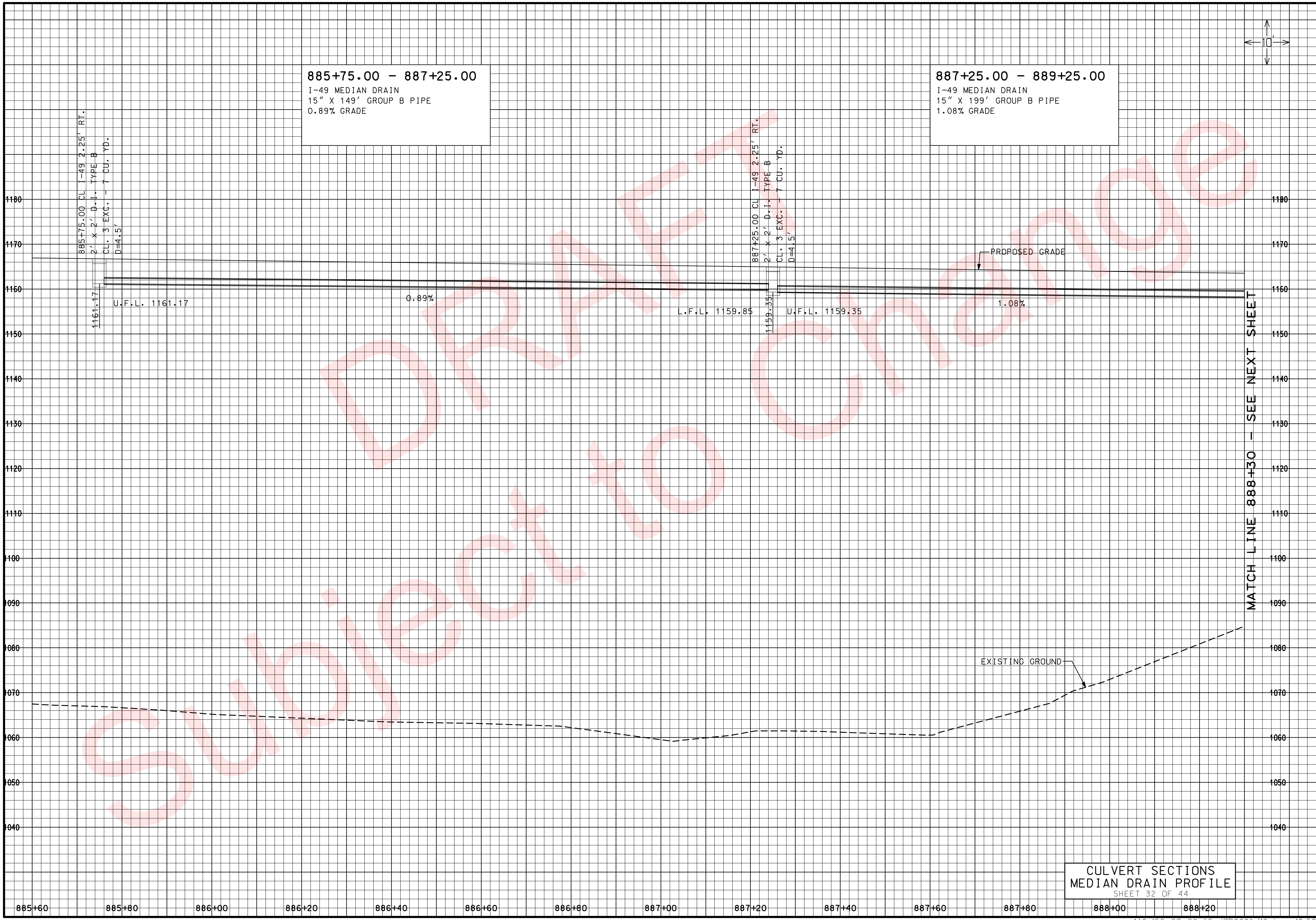
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	145
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 32 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

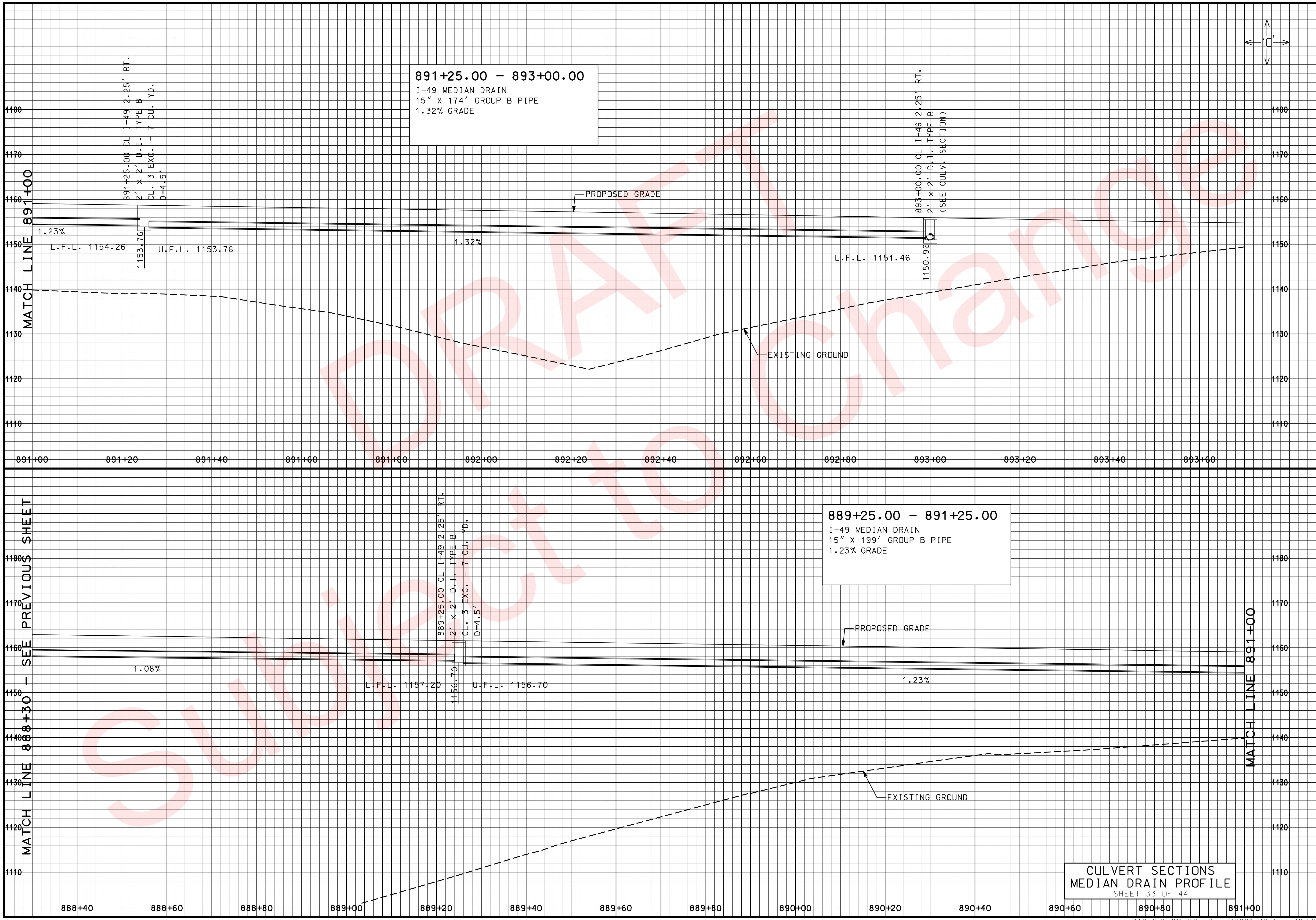
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	146
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 33 OF 44

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	147
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

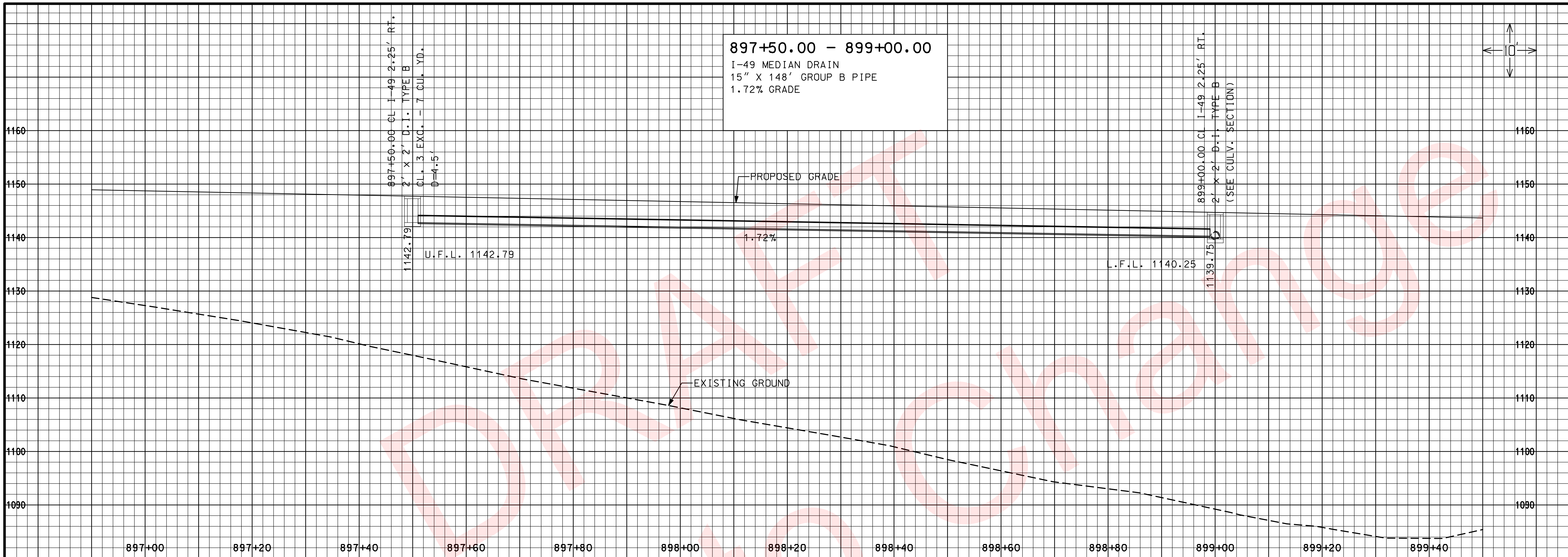
DESCRIPTION

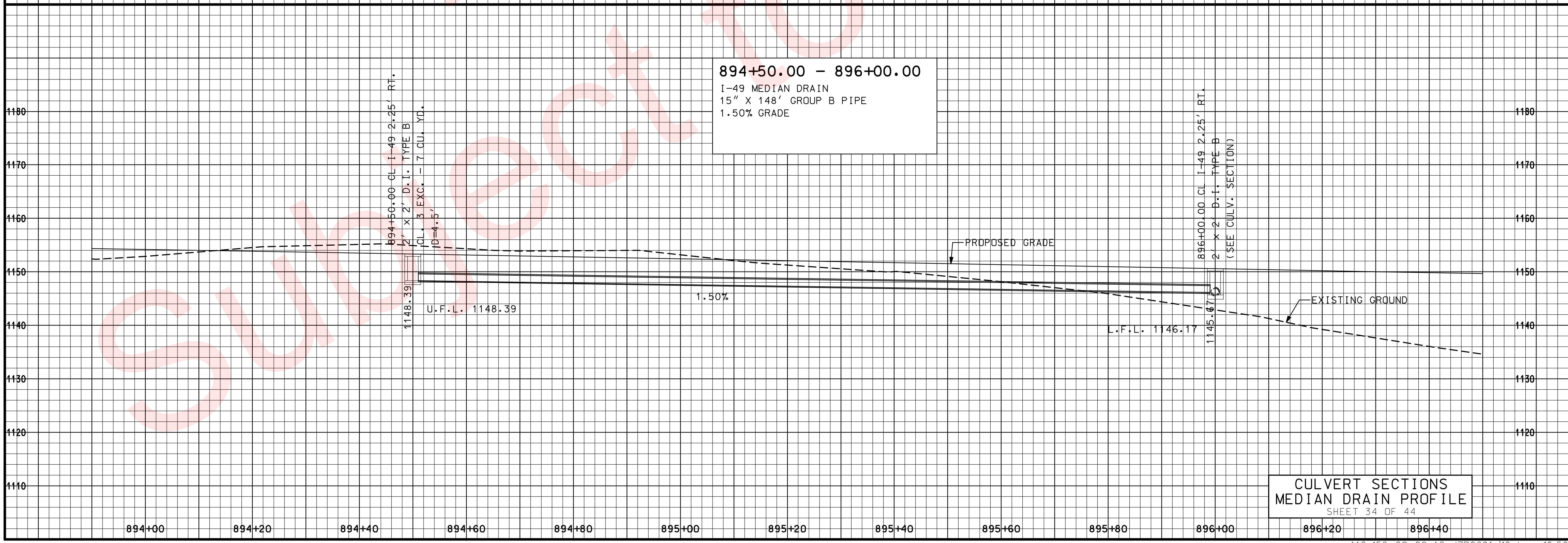
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.





CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 34 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 148
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

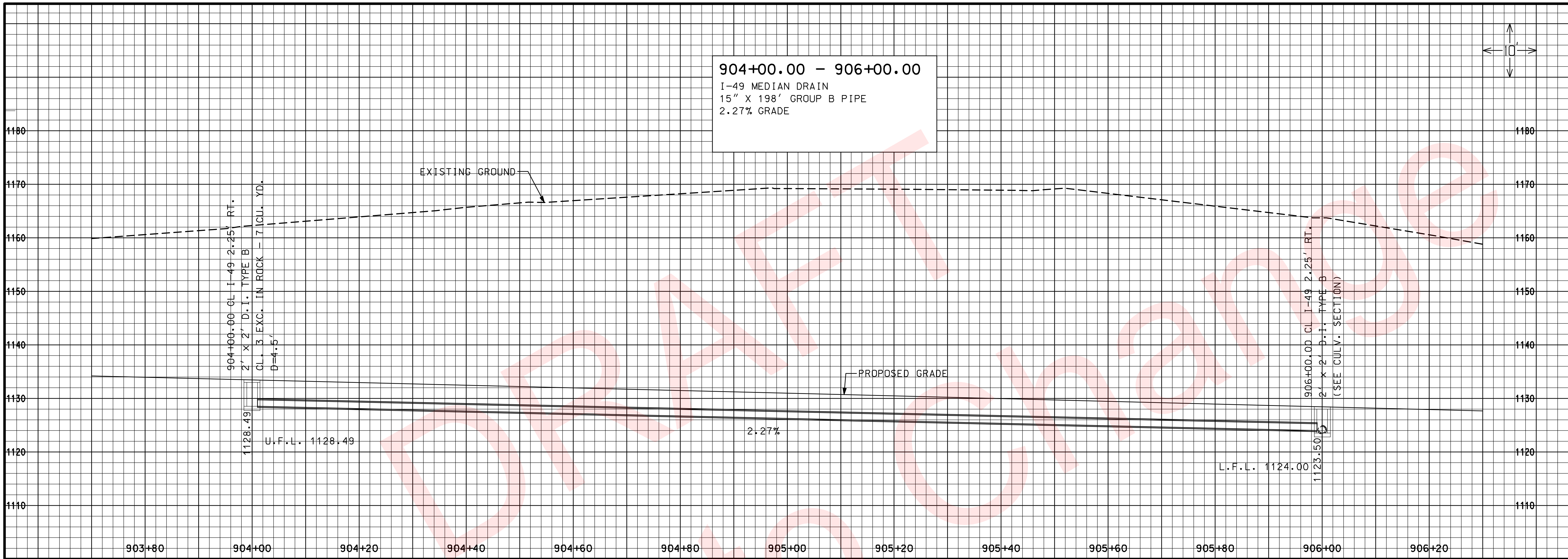
DATE

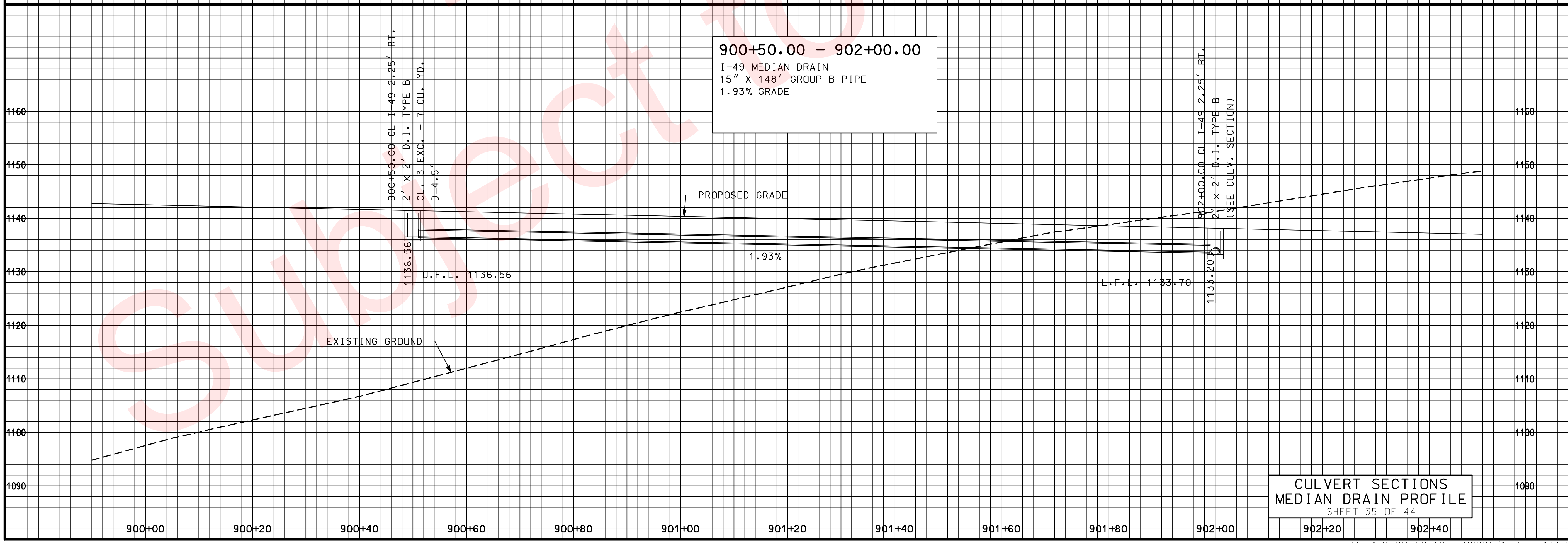
REV.

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.





"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	149
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

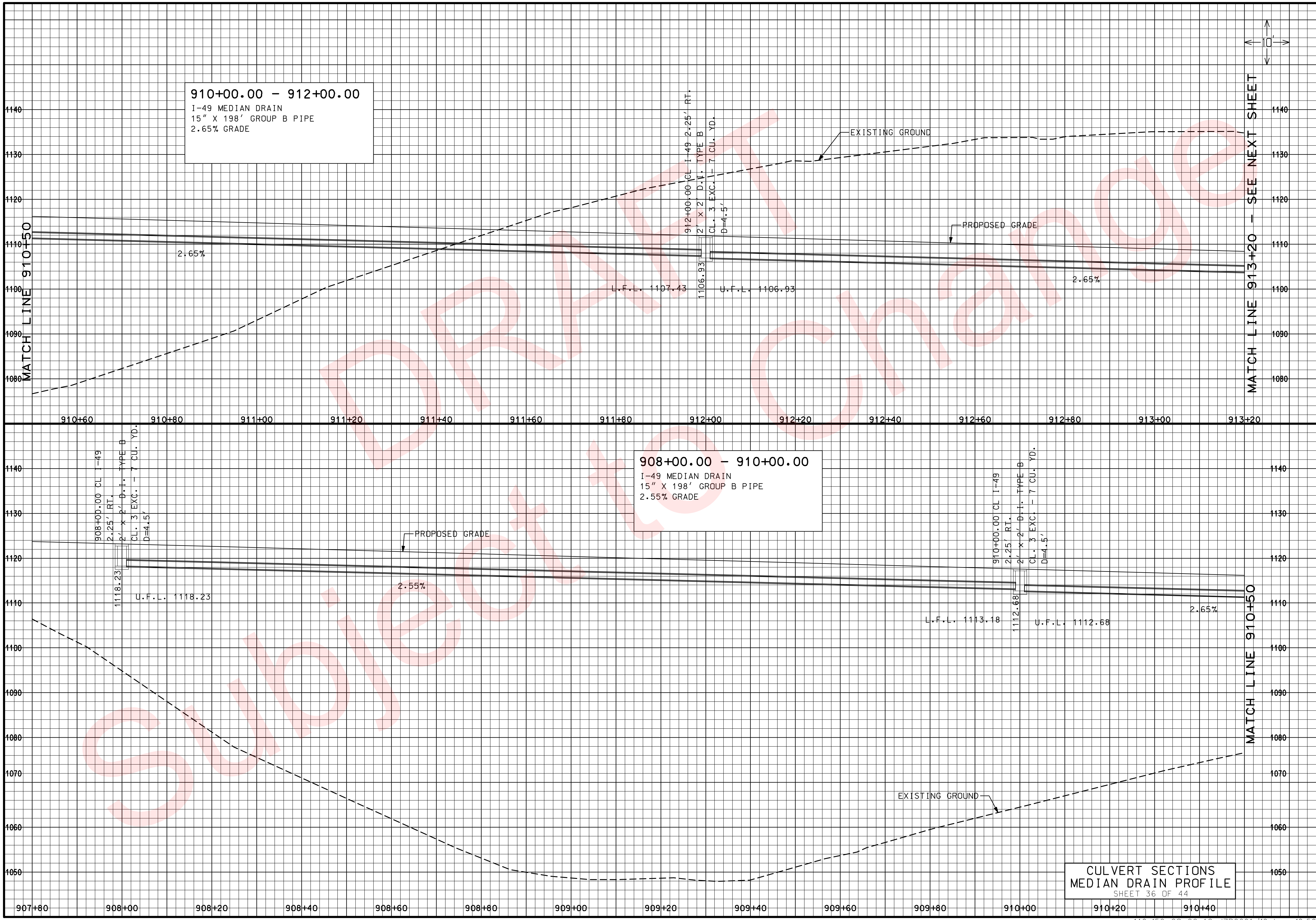
DESCRIPTION

DATE

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

CULVERT SECTIONS
MEDIAN DRAIN PROFILE

REV.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 36 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

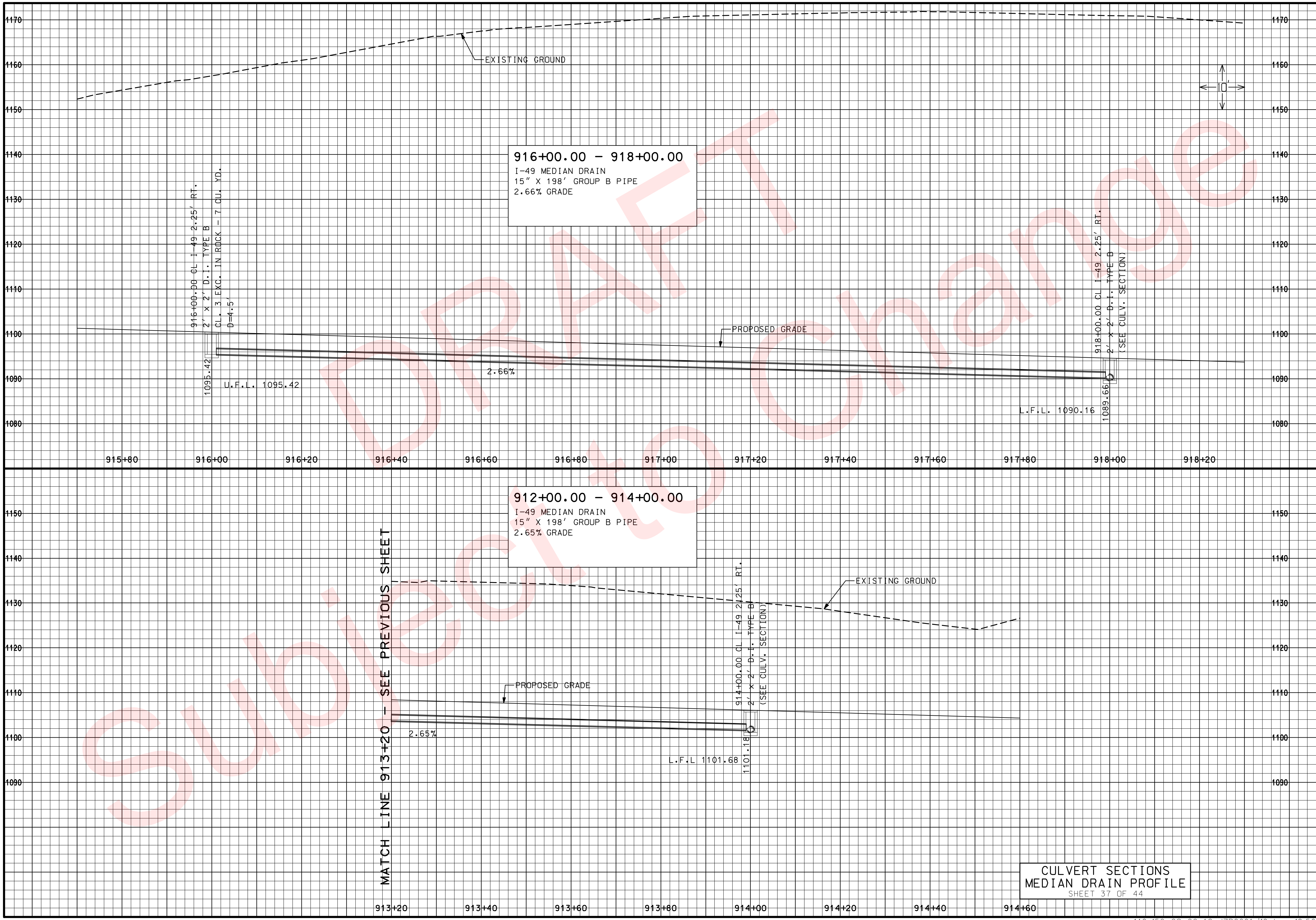
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 150
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 37 OF 44

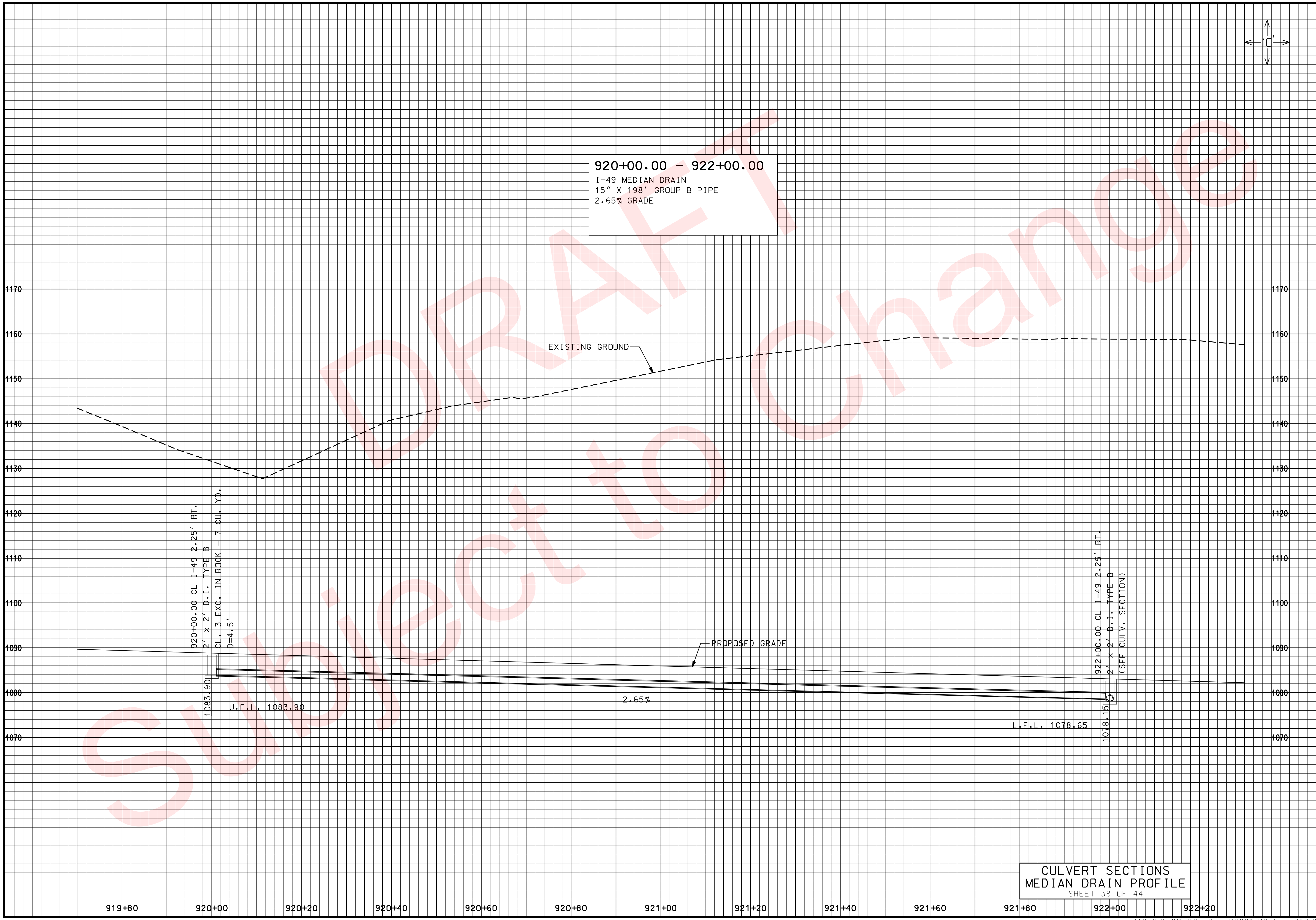
DATE PREPARED	02/04/2010
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 151
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 38 OF 44

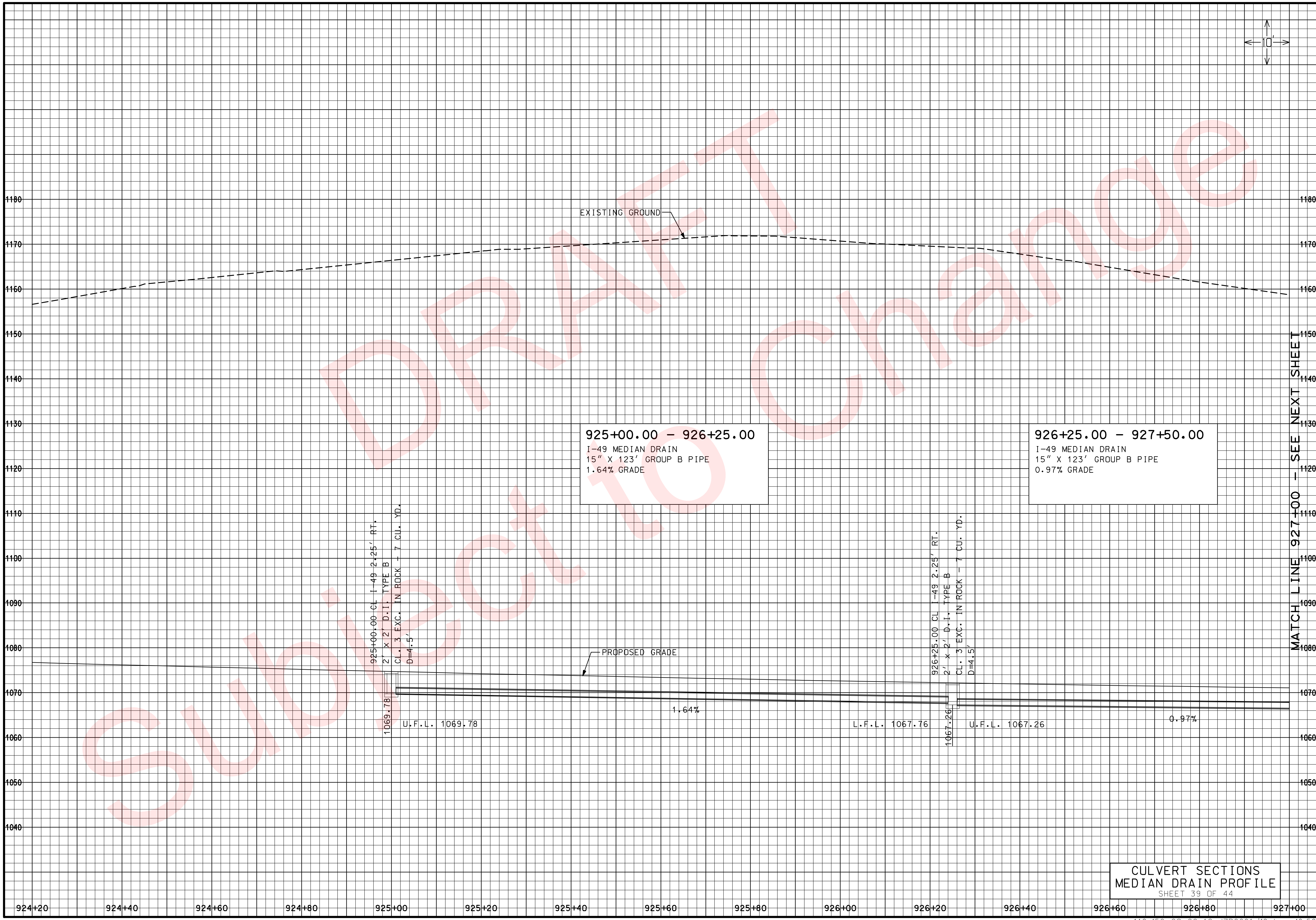
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 152
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 39 OF 44

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

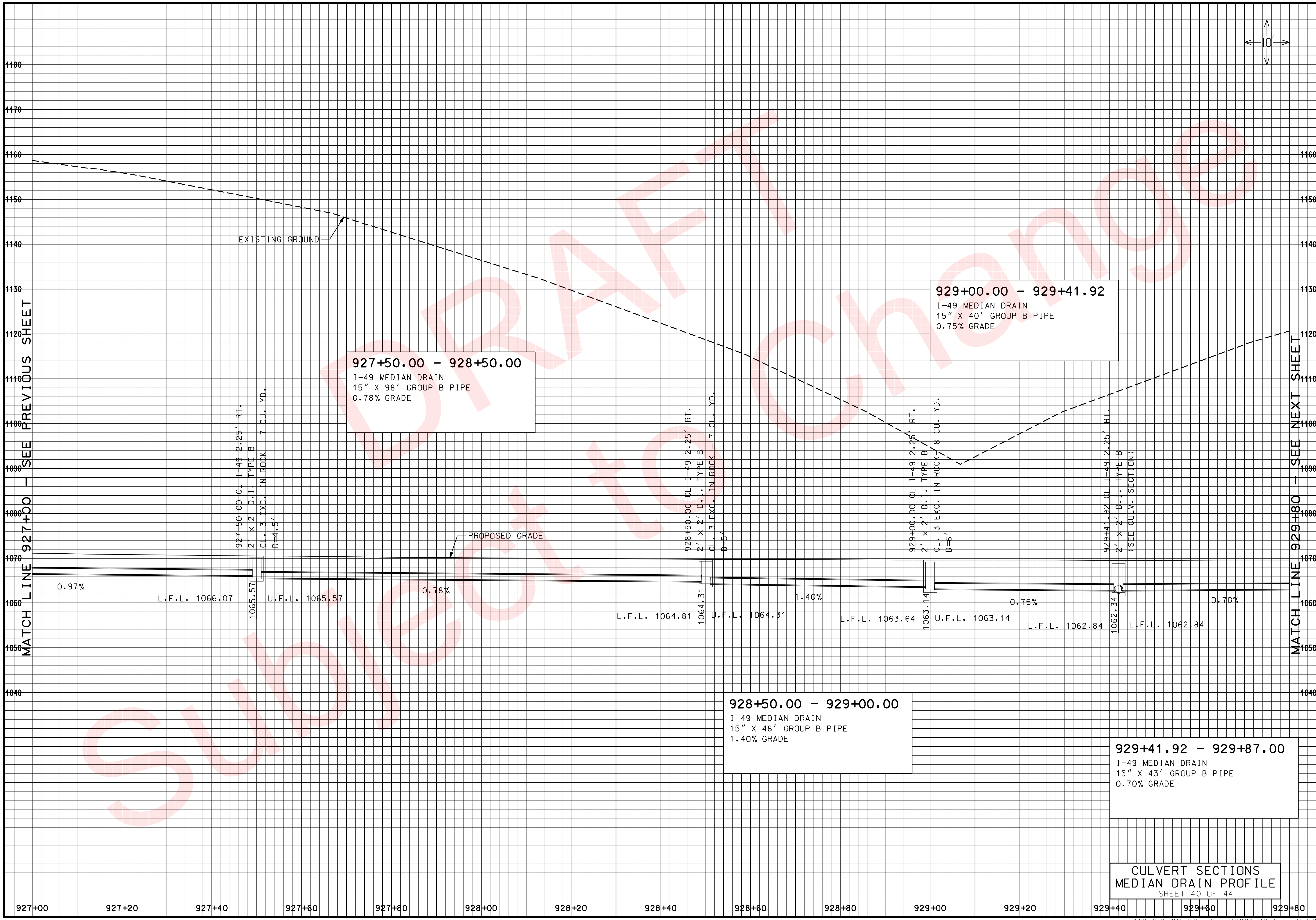
DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	153
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 154
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

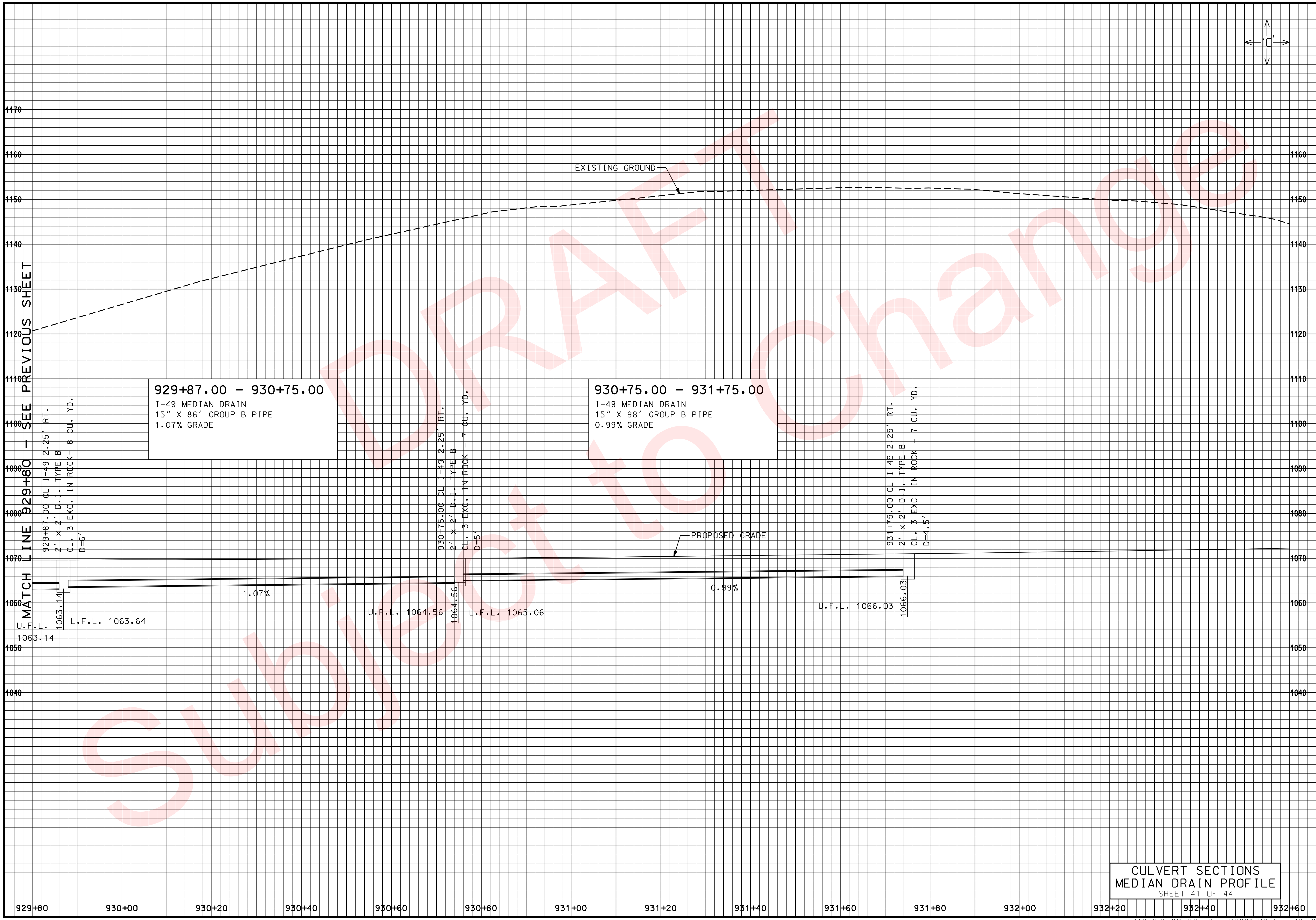
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CULVERT SECTIONS
MEDIAN DRAIN PROFILE

SHEET 40 OF 44

REV.

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



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 155
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

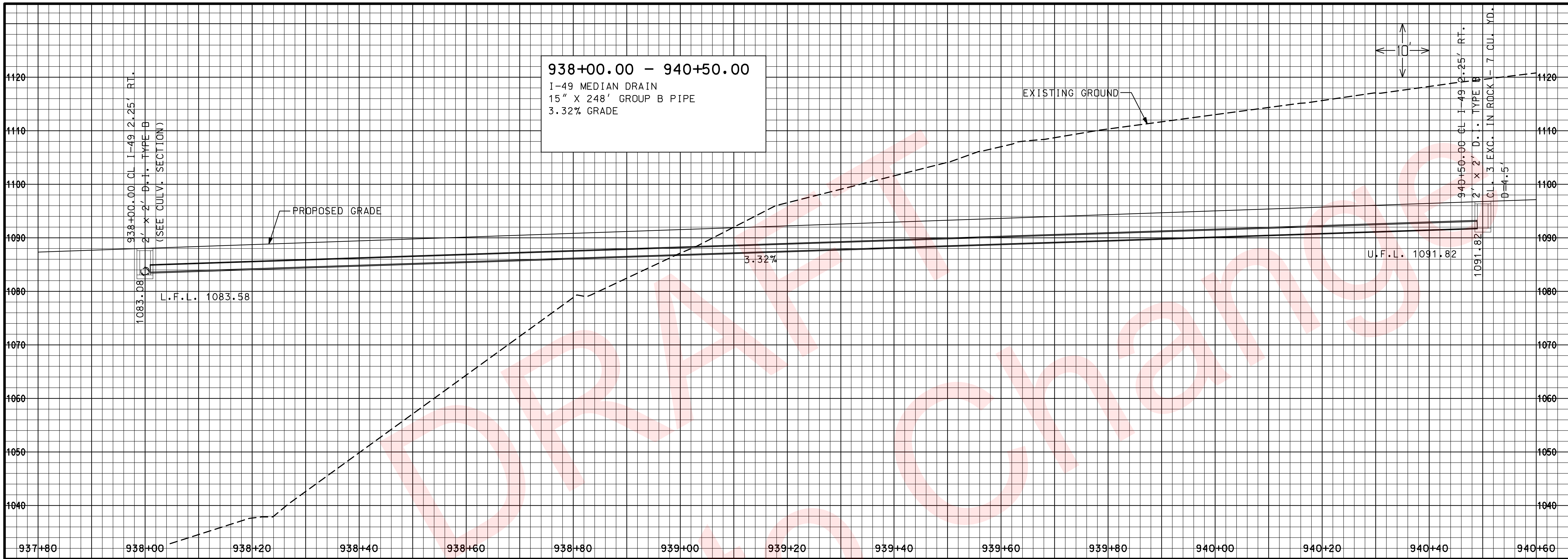
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

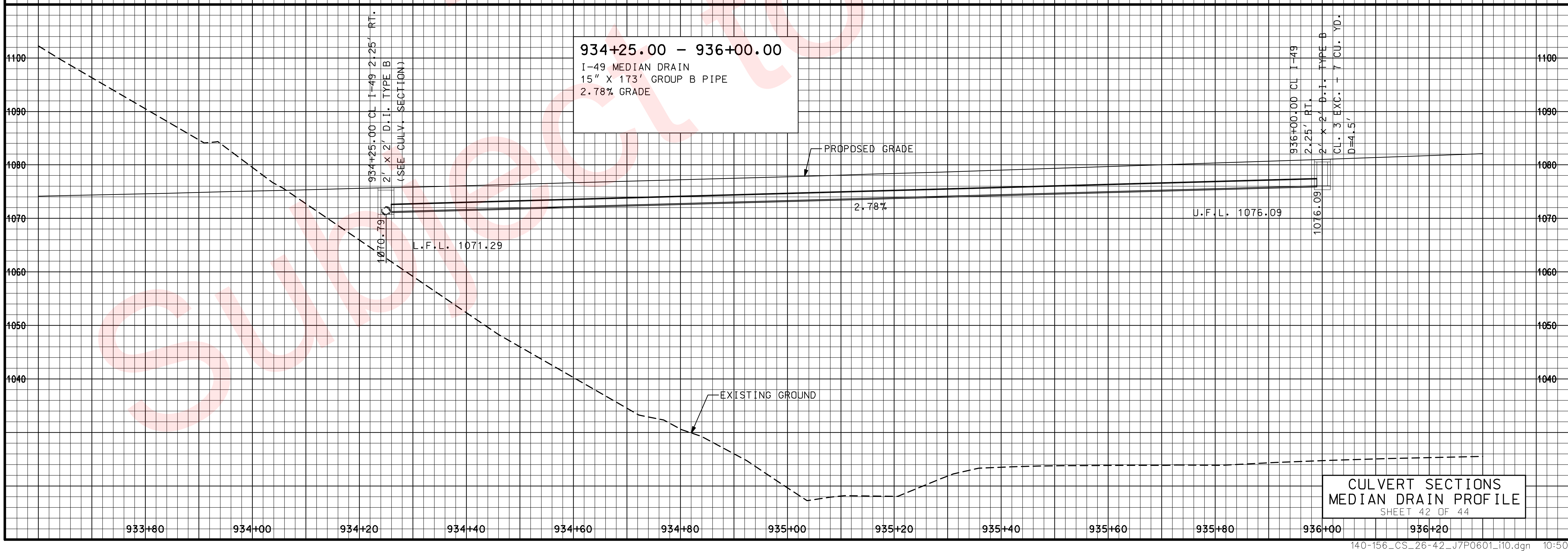
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

CULVERT SECTIONS
MEDIAN DRAIN PROFILE

SHEET 41 OF 44





DRAFT Subject to Change

CULVERT SECTIONS
MEDIAN DRAIN PROFILE

SHEET 42 OF 44

DATE PREPARED	02/04/2010
ROUTE	49
STATE	MO
DISTRICT	7
SHEET NO.	156
COUNTY	McDONALD
JOB NO.	J7P0601
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

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

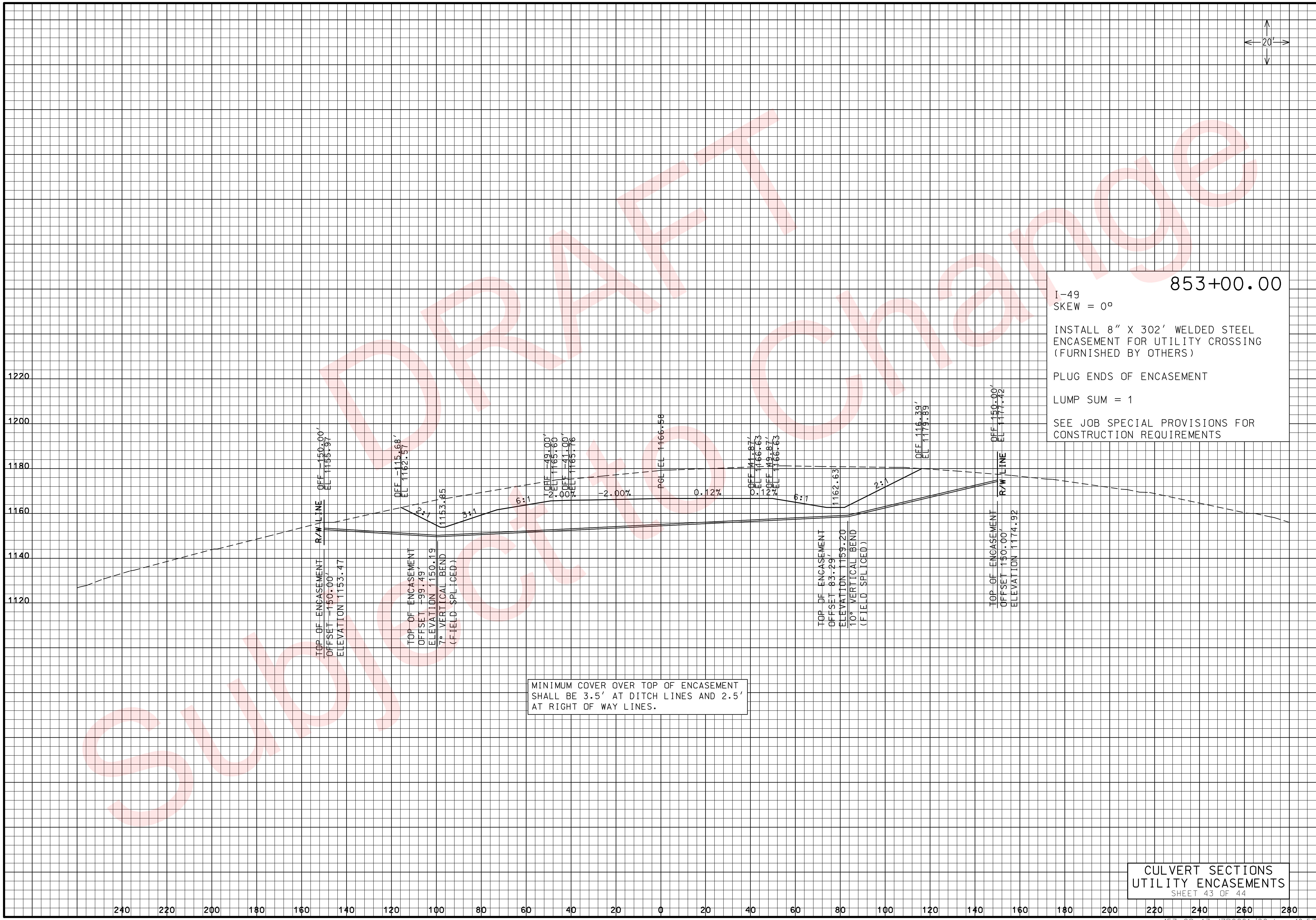
DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 157
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



853+00.00

I-49
SKEW = 0°

INSTALL 8" X 302' WELDED STEEL ENCASEMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

PLUG ENDS OF ENCASEMENT

LUMP SUM = 1

SEE JOB SPECIAL PROVISIONS FOR CONSTRUCTION REQUIREMENTS

MINIMUM COVER OVER TOP OF ENCASEMENT SHALL BE 3.5' AT DITCH LINES AND 2.5' AT RIGHT OF WAY LINES.

CULVERT SECTIONS
UTILITY ENCASEMENTS

REV.

DATE PREPARED	
02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 158
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

60+75.00

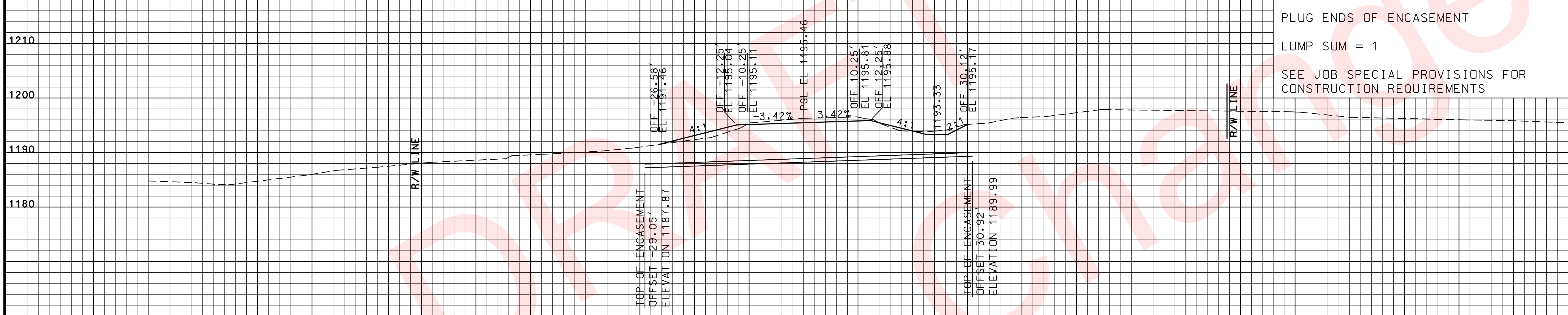
RTE. 90
SKEW = 0°

INSTALL 8" X 60' WELDED STEEL ENCASEMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

PLUG ENDS OF ENCASEMENT

LUMP SUM = 1

SEE JOB SPECIAL PROVISIONS FOR CONSTRUCTION REQUIREMENTS



MINIMUM COVER OVER TOP OF ENCASEMENT SHALL BE 3.5' AT DITCH LINES AND 3.5' AT THE TOE OF FILLS.

43+50.00

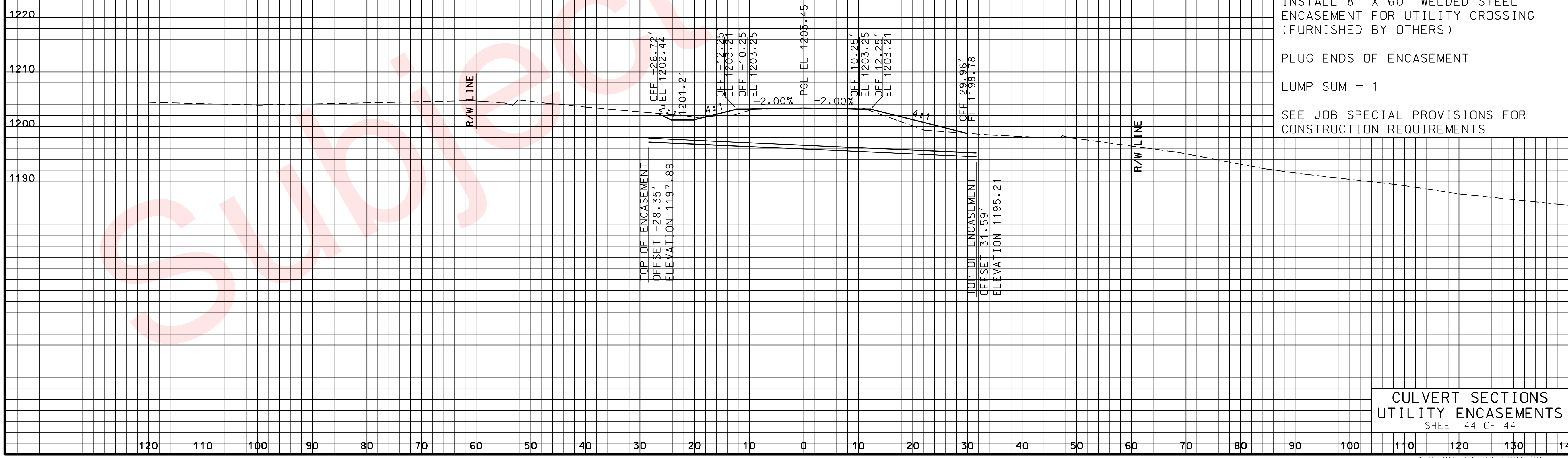
RTE. 90
SKEW = 0°

INSTALL 8" X 60' WELDED STEEL ENCASEMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

PLUG ENDS OF ENCASEMENT

LUMP SUM = 1

SEE JOB SPECIAL PROVISIONS FOR CONSTRUCTION REQUIREMENTS



DESCRIPTION | DATE

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

CULVERT SECTIONS UTILITY ENCASEMENTS