

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. 989+65.36. NO ADJUTING 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
- WOVEN WIRE
- GATE POST
- UTILITIES
- UNDERGROUND TELEPHONE
- OVERHEAD POWER
- UNDERGROUND POWER
- GAS
- WATER
- MANHOLE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- DROP INLET
- DITCH BLOCK
- GROUND MOUNTED SIGN
- LIGHT POLE
- H-FRAME POWER POLE
- TELEPHONE PEDESTAL
- GRS MONUMENT
- BENCHMARK

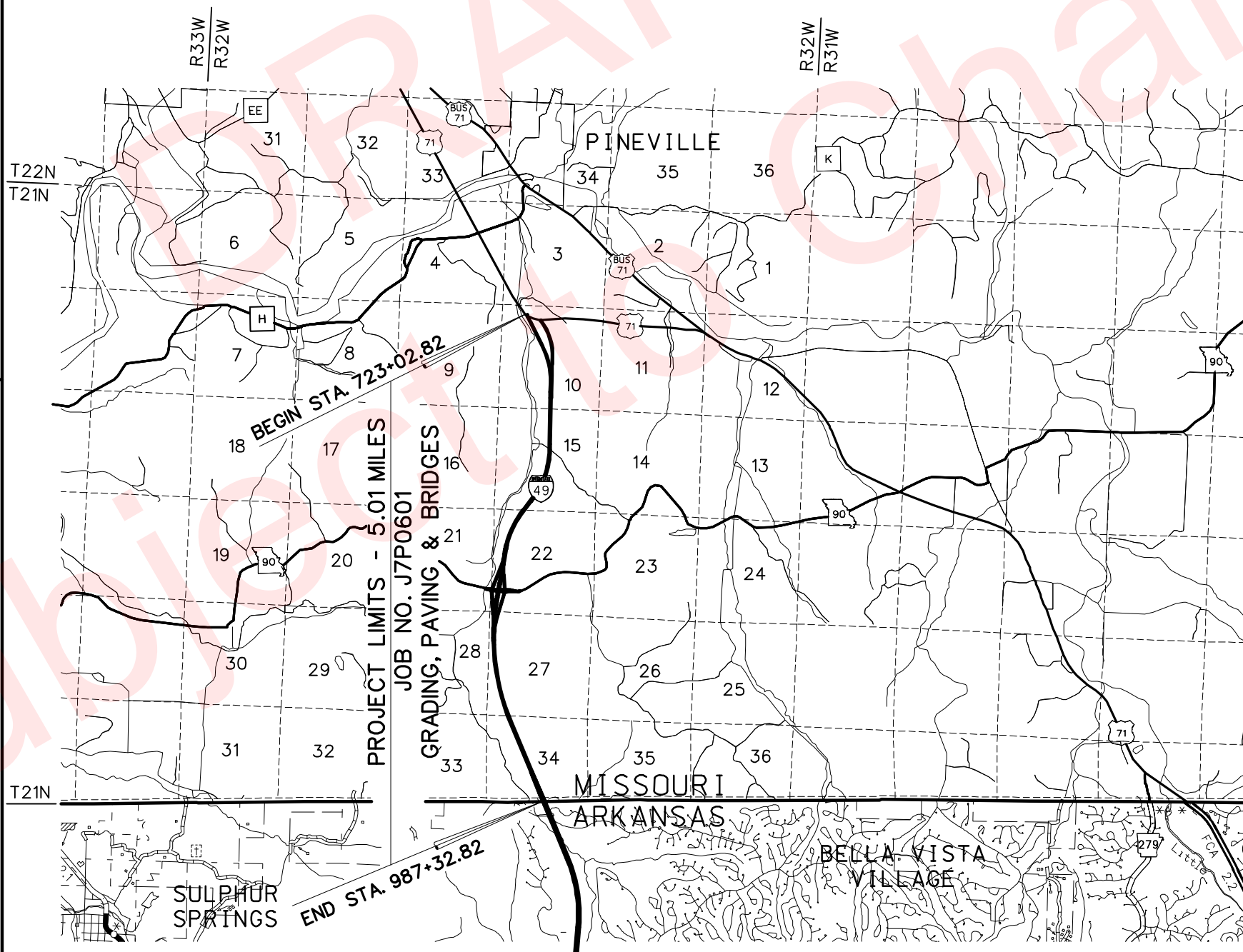
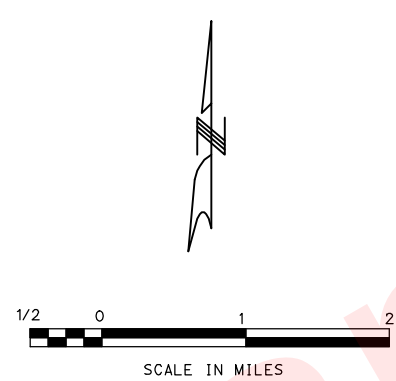
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT

McDONALD COUNTY



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
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BR A6380 (BR)	-
BR A7000 (BR)	-

"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.

DATE	DESCRIPTION

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

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.

CROSS SLOPE

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

NOTES:

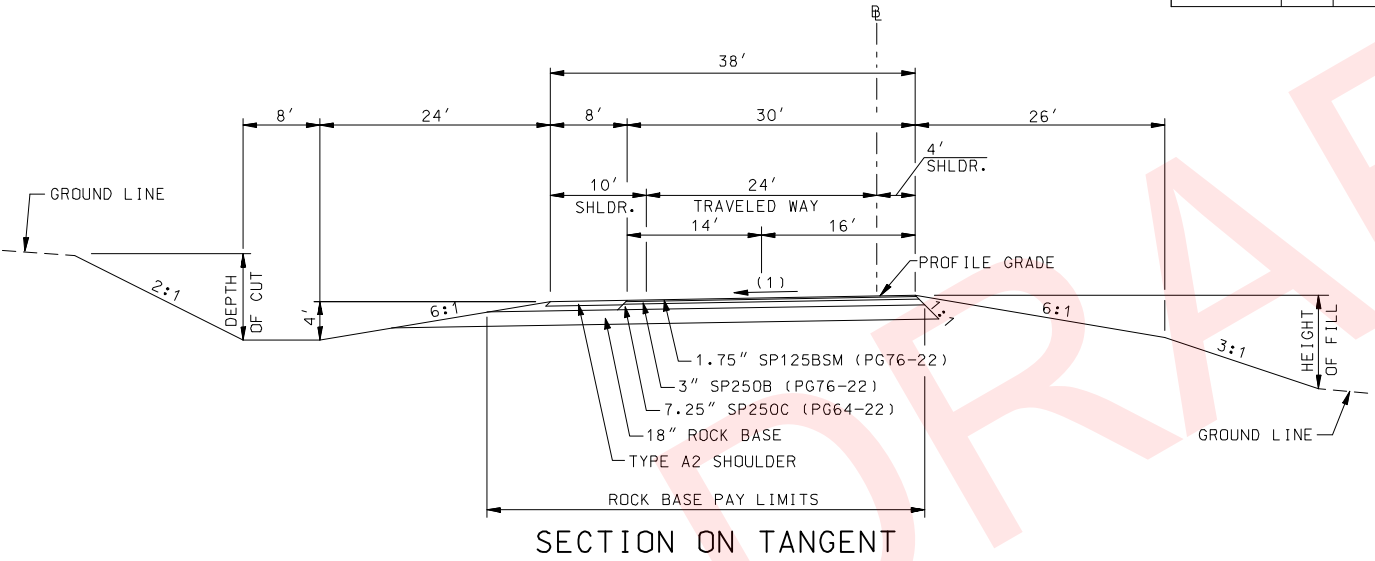
SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

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.

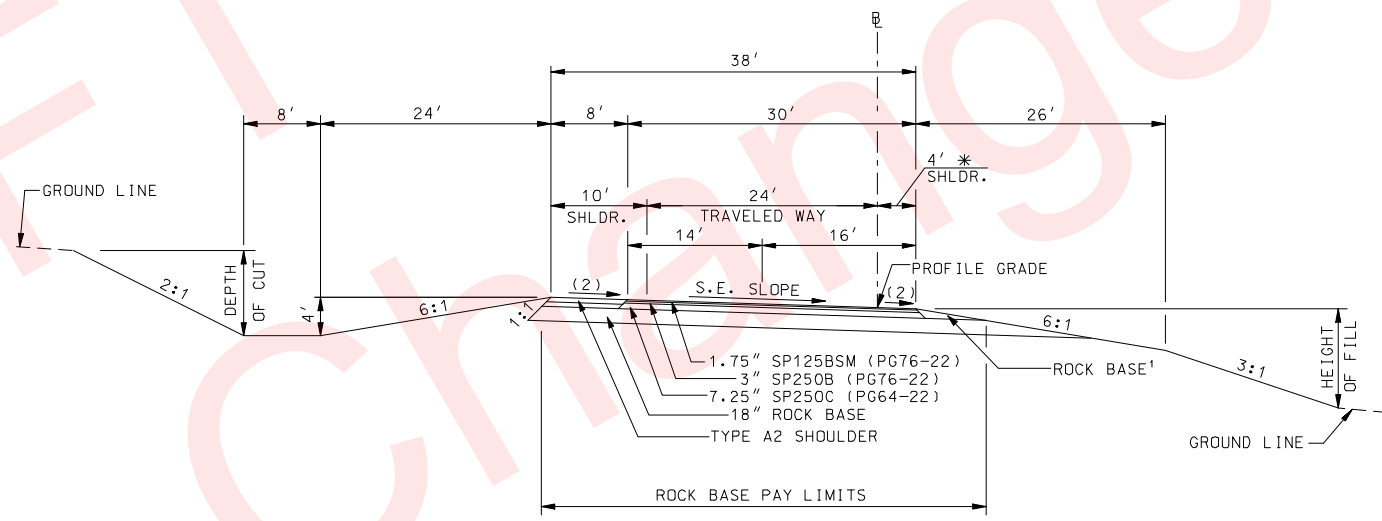
¹ NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS MATERIAL OR FOR THE PLACEMENT THEREOF.

I-49 N.B.L. NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
729+20.22		$\leftarrow -0.29\% \quad -4.26\% \rightarrow$ 10' 12' 12' 4'	MATCH EXIST. RTE. 71 (BEGIN PROJECT)
730+00.00	D-D	$\leftarrow -6.3\% \rightarrow$ 10' 12' 12' 4'	FULL SUPER
749+14.89	D-D	$\leftarrow -6.3\% \rightarrow$ 10' 12' 12' 4'	FULL SUPER
750+43.89	C-C	$\leftarrow -2.0\% \rightarrow$ 10' 12' 12' 4'	TRANSVERSE SLOPE
751+03.89	B-B	$\leftarrow 0.0\% \rightarrow$ 10' 12' 12' 4'	TRANSVERSE SLOPE
751+63.89	A-A	$\leftarrow -2.0\% \rightarrow$ 10' 12' 12' 4'	TRANSVERSE SLOPE
767+20.00		$\leftarrow -2.0\% \rightarrow$ 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

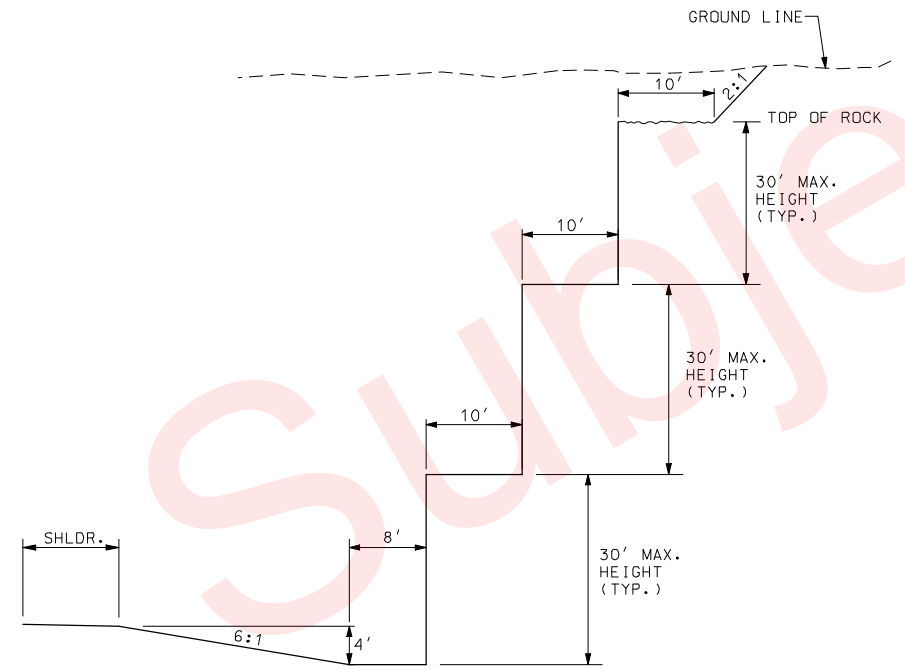


SECTION ON TANGENT



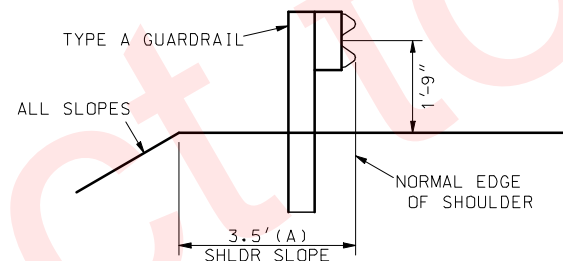
SECTION ON SUPERELEVATED CURVE

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

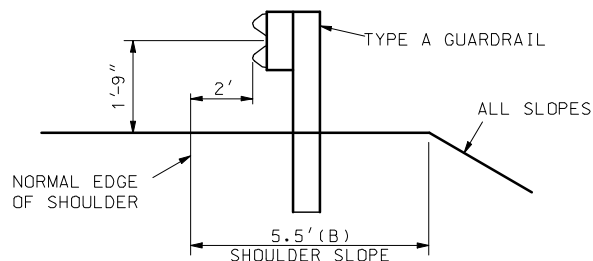
I-49 N.B.L., I-49 S.B.L., I-49



LT SHOULDER WIDENING FOR GUARDRAIL

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

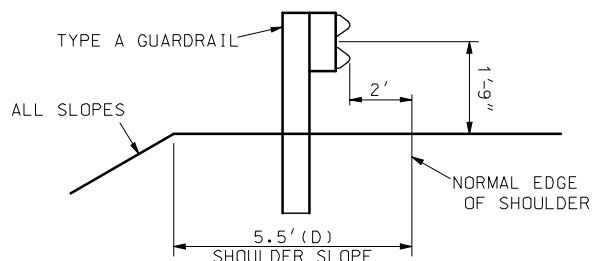
(A) TAPER 3.5' TO 0' FROM
STA. 741+53.58 TO STA. 742+06.08



RT SHOULDER WIDENING FOR GUARDRAIL

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

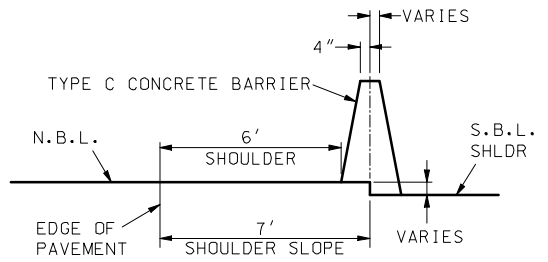
(B) TAPER 5.5' TO 0' FROM
STA. 740+66.59 TO STA. 741+49.09



LT SHOULDER WIDENING FOR GUARDRAIL

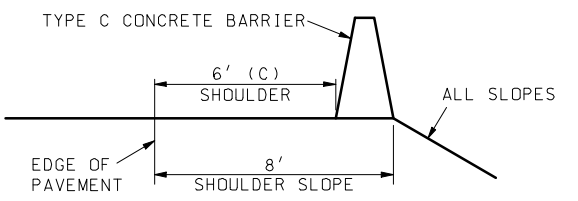
I-49 N.B.L. LT
STA. 766+27.50 TO STA. 767+20.00

(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



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

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)

MoDOT

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

REV.

CROSS SLOPE

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

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

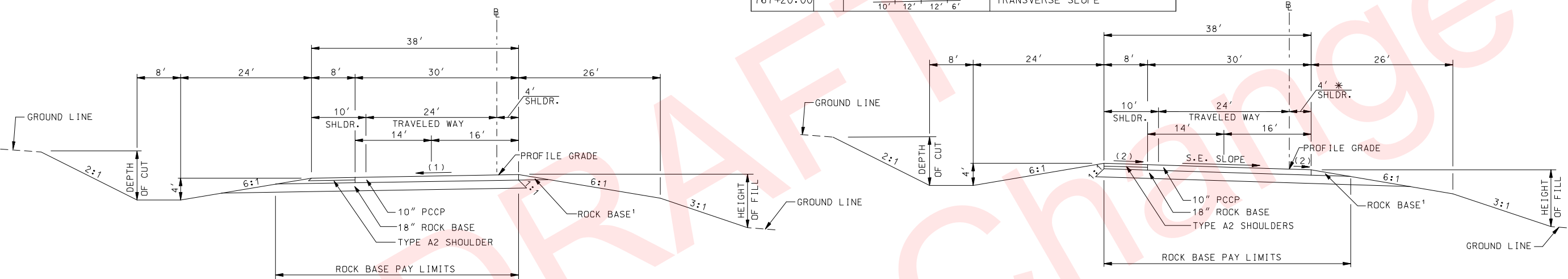
NOTES:

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	$\leftarrow -0.29\% \quad -4.26\% \rightarrow$	MATCH EXIST. RTE. 71 (BEGIN PROJECT)
730+00.00	D-D $\leftarrow -6.3\% \rightarrow$	FULL SUPER
749+14.89	D-D $\leftarrow -6.3\% \rightarrow$	FULL SUPER
750+43.89	C-C $\leftarrow -2.0\% \rightarrow$	TRANSVERSE SLOPE
751+03.89	B-B $\leftarrow 0.0\% \rightarrow$	
751+63.89	A-A $\leftarrow -2.0\% \rightarrow$	TRANSVERSE SLOPE
767+20.00	$\leftarrow -2.0\% \rightarrow$	TRANSVERSE SLOPE

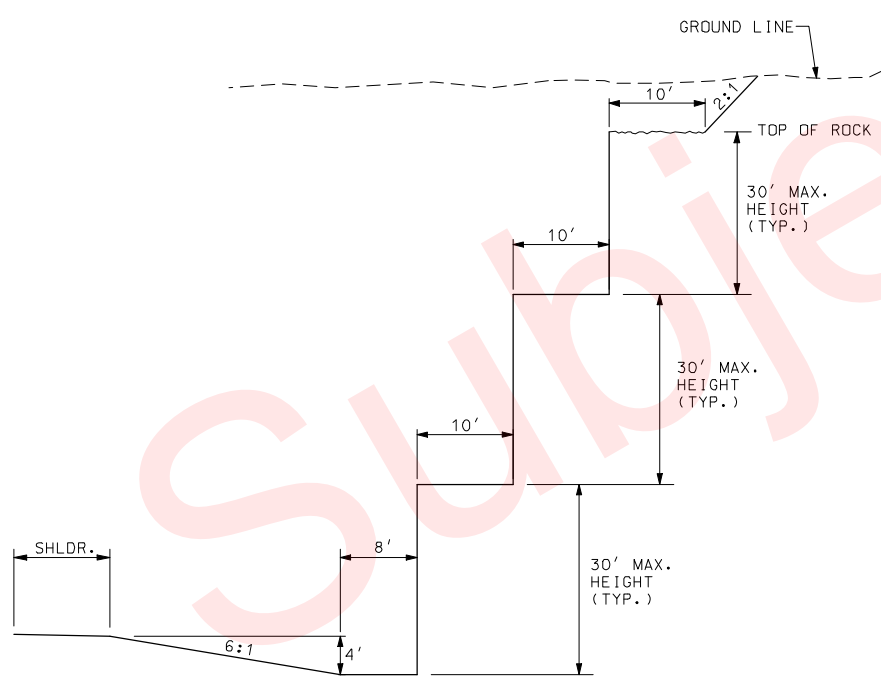
* RT. SHOULDER WIDTH AT BRIDGE A6380:
 4' TO 6' FROM STA. 734+42.78 TO STA. 734+82.78
 6' FROM STA. 734+82.78 TO STA. 737+95.47
 6' TO 4' FROM STA. 737+95.47 TO STA. 738+35.47



SECTION ON TANGENT

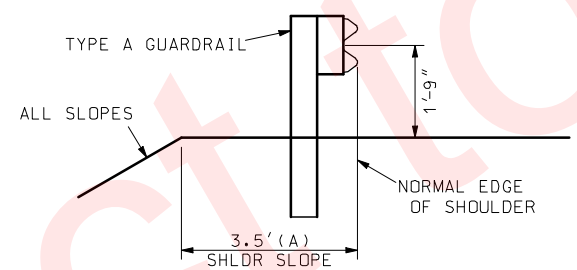
SECTION ON SUPERELEVATED CURVE

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

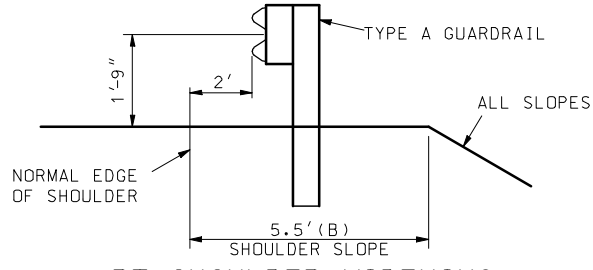
I-49 N.B.L., I-49 S.B.L., I-49



LT SHOULDER WIDENING FOR GUARDRAIL

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

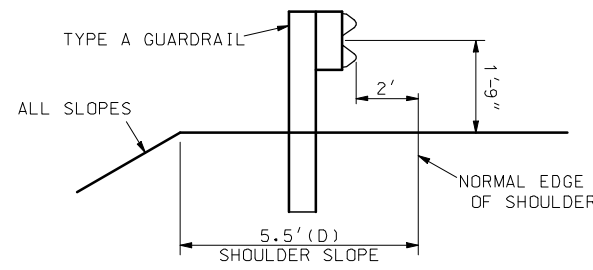
(A) TAPER 3.5' TO 0' FROM
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RT SHOULDER WIDENING FOR GUARDRAIL

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

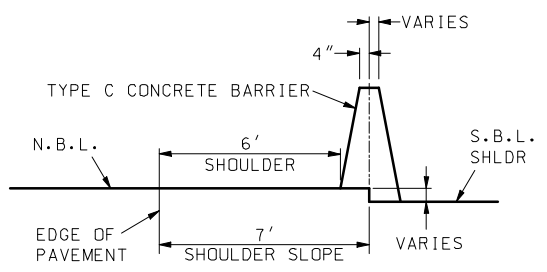
(B) TAPER 5.5' TO 0' FROM
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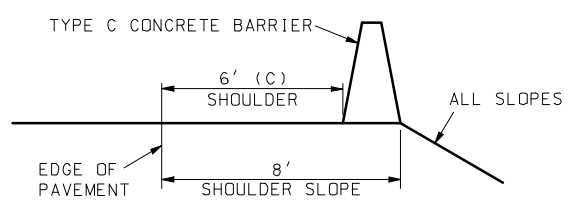
I-49 N.B.L. LT
STA. 766+27.50 TO STA. 767+20.00

(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



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

"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)
 MoDOT
 SHEET 2 OF 13
 REV.

CROSS SLOPE

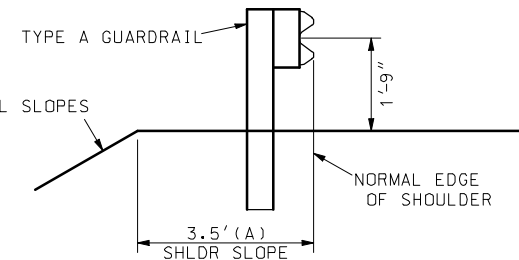
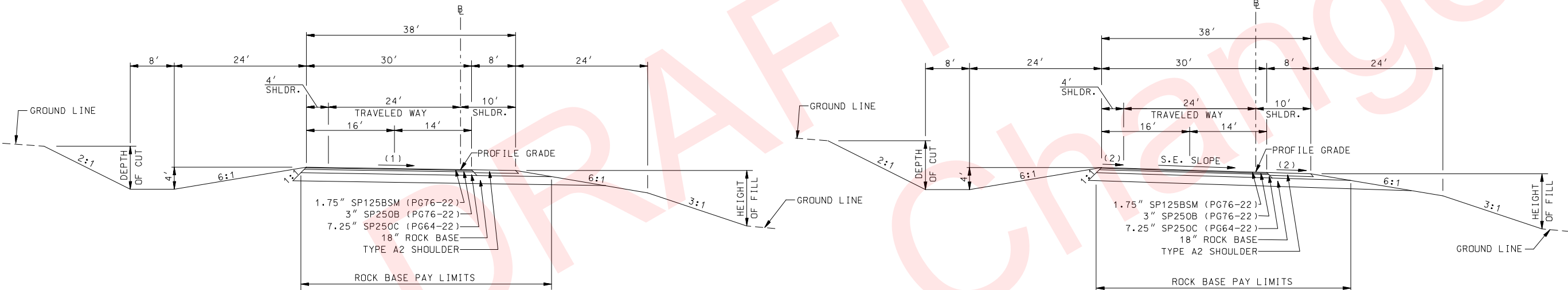
- (1) 2.0%
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NOTES:

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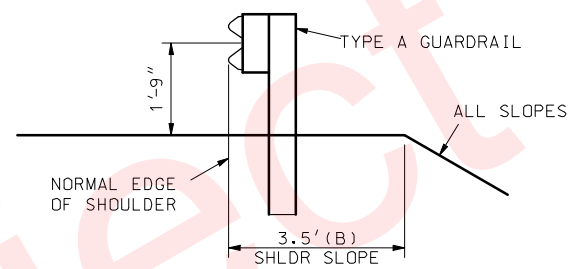
I-49 S.B.L. NORMAL SUPERELEVATION TRANSITION		
STATION	SECTION	REMARKS
723+02.82		TRANSVERSE SLOPE (BEGIN PROJECT)
740+52.91	G-G	TRANSVERSE SLOPE
741+39.91	H-H	FULL SUPER
759+66.79	H-H	FULL SUPER
760+53.79	G-G	TRANSVERSE SLOPE
764+93.73		TRANSVERSE SLOPE



SECTION ON TANGENT

SECTION ON SUPERELEVATED CURVE

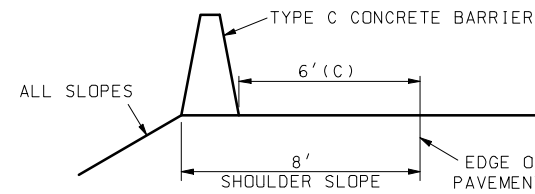
I-49 S.B.L. STA. 723+02.82 TO I-49 S.B.L. STA. 764+93.73



RT SHOULDER WIDENING FOR GUARDRAIL

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

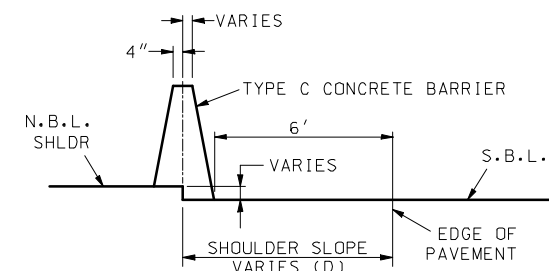
(B) TAPER 3.5' TO 0' FROM
STA. 728+10.00 TO STA. 728+62.50



LT SHOULDER WIDENING FOR CONCRETE BARRIER

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

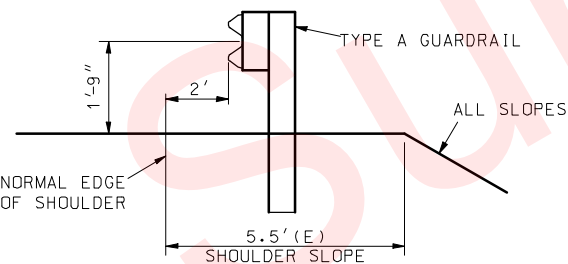
(C) TAPER 4' TO 6' FROM
STA. 753+75.00 TO STA. 755+25.00



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

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 DATE PREPARED: 02/04/2010
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 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)
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 REV.

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759+66.79	H-H		FULL SUPER
760+53.79	G-G		TRANSVERSE SLOPE
764+93.73			TRANSVERSE SLOPE

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DATE PREPARED
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ROUTE 49 STATE MO

DISTRICT 7 SHEET NO. 2

COUNTY McDONALD

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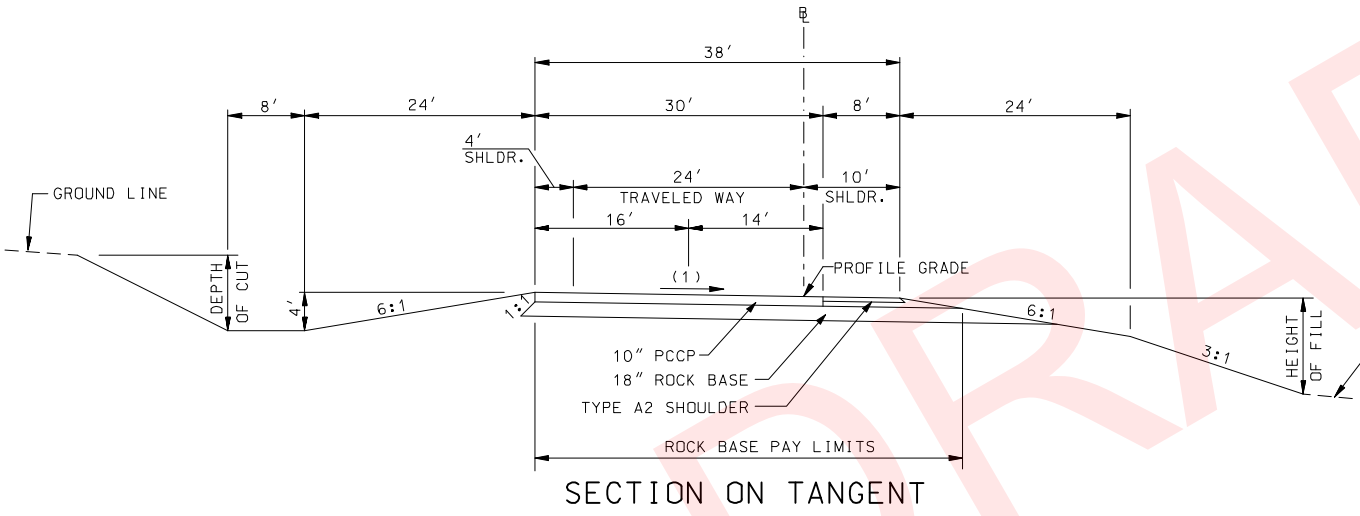
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DATE

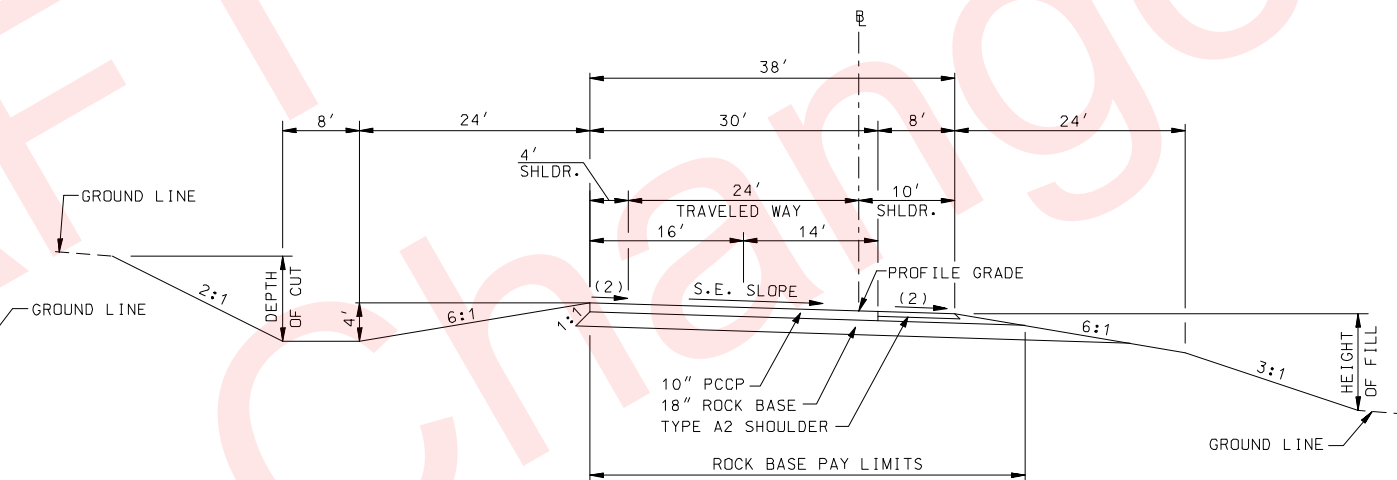
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

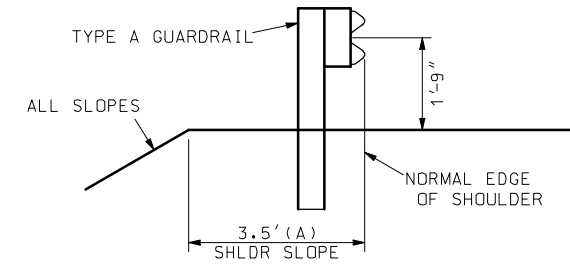


SECTION ON TANGENT



SECTION ON SUPERELEVATED CURVE

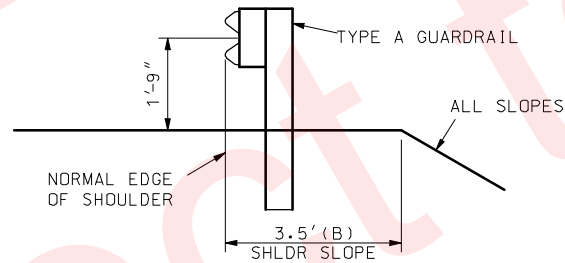
I-49 S.B.L. STA. 723+02.82 TO I-49 S.B.L. STA. 764+93.73



LT SHOULDER WIDENING FOR GUARDRAIL

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

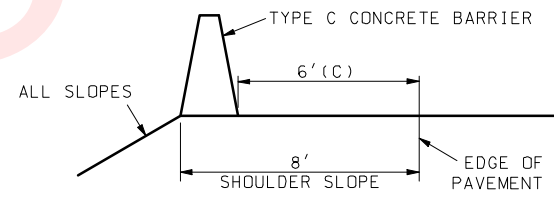
(A) TAPER 0' TO 3.5' FROM
STA. 753+43.75 TO STA. 753+96.25



RT SHOULDER WIDENING FOR GUARDRAIL

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

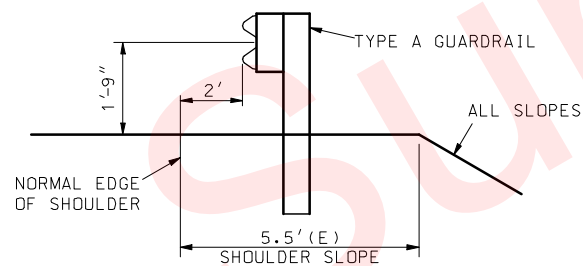
(B) TAPER 3.5' TO 0' FROM
STA. 728+10.00 TO STA. 728+62.50



LT SHOULDER WIDENING FOR CONCRETE BARRIER

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

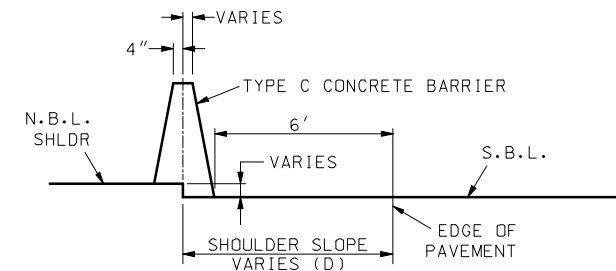
(C) TAPER 4' TO 6' FROM
STA. 753+75.00 TO STA. 755+25.00



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



REV.

I-49 NORMAL SUPERELEVATION TRANSITION		
STATION	SECTION	REMARKS
764+93.73		NORMAL SLOPE
791+82.33	A-A	NORMAL SLOPE
792+90.33	B-B	
793+98.33	C-C	REVERSE CROWN
795+54.93	D-D	FULL SUPER
819+69.45	D-D	FULL SUPER
821+26.05	C-C	REVERSE CROWN
822+34.05	B-B	
823+42.05	A-A	NORMAL SLOPE
829+00.52	A-A	NORMAL SLOPE
830+08.52	B-B	
831+16.52	C-C	REVERSE CROWN
832+73.12	D-D	FULL SUPER
850+41.76	D-D	FULL SUPER
851+98.36	C-C	REVERSE CROWN
853+06.36	B-B	
854+14.36	A-A	NORMAL SLOPE
874+95.92	A-A	NORMAL SLOPE
876+03.92	B-B	
877+11.92	C-C	REVERSE CROWN
941+98.86	C-C	REVERSE CROWN
943+06.86	B-B	
944+14.86	A-A	NORMAL SLOPE

CROSS SLOPE

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

NOTES:

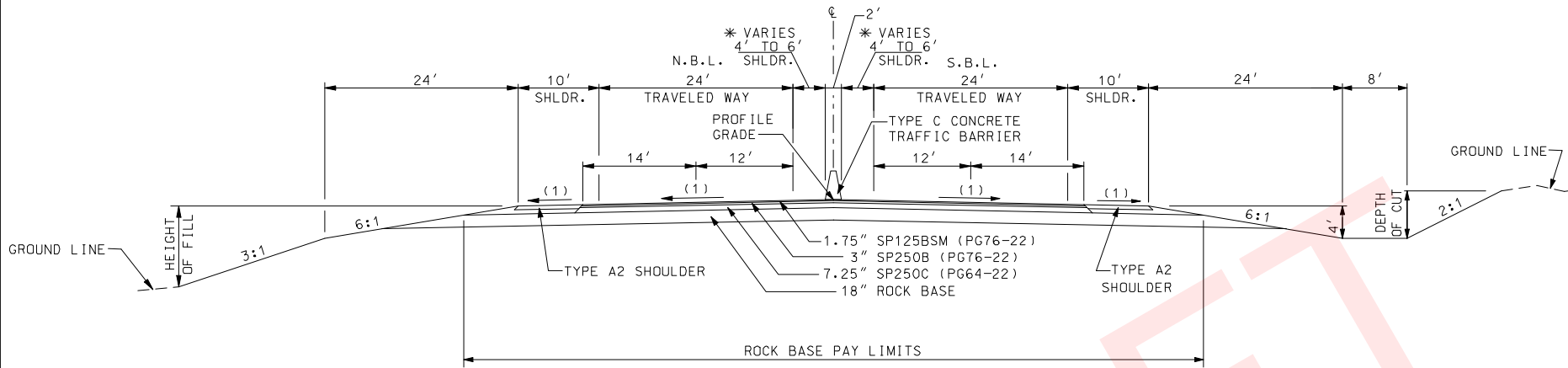
SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.

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.

- ** 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 831+84.92
- TAPER 6' TO 4' FROM STA. 851+29.96 TO STA. 854+21.96

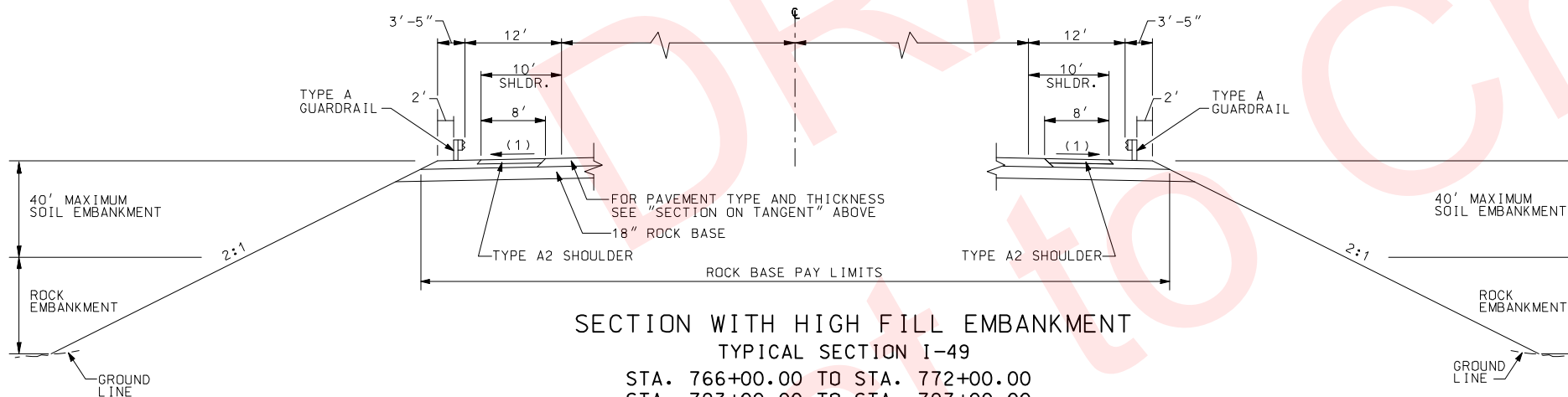
I-49
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 5 OF 13



SECTION ON TANGENT

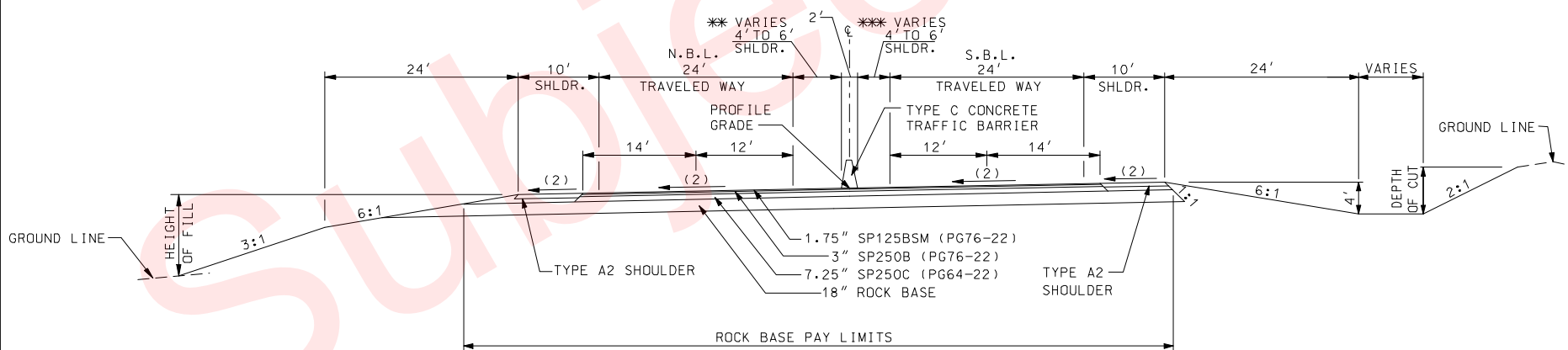
TYPICAL SECTION I-49
STA. 764+93.73 TO STA. 791+82.33
STA. 823+42.05 TO STA. 829+00.52
STA. 854+14.36 TO STA. 869+00.00
STA. 944+14.86 TO STA. 969+00.00

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



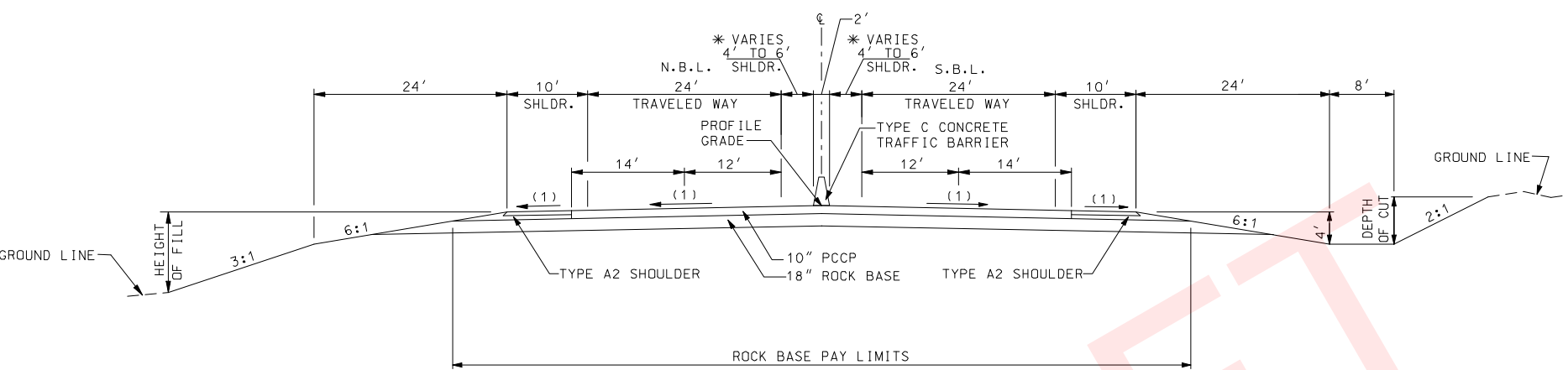
SECTION WITH HIGH FILL EMBANKMENT

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



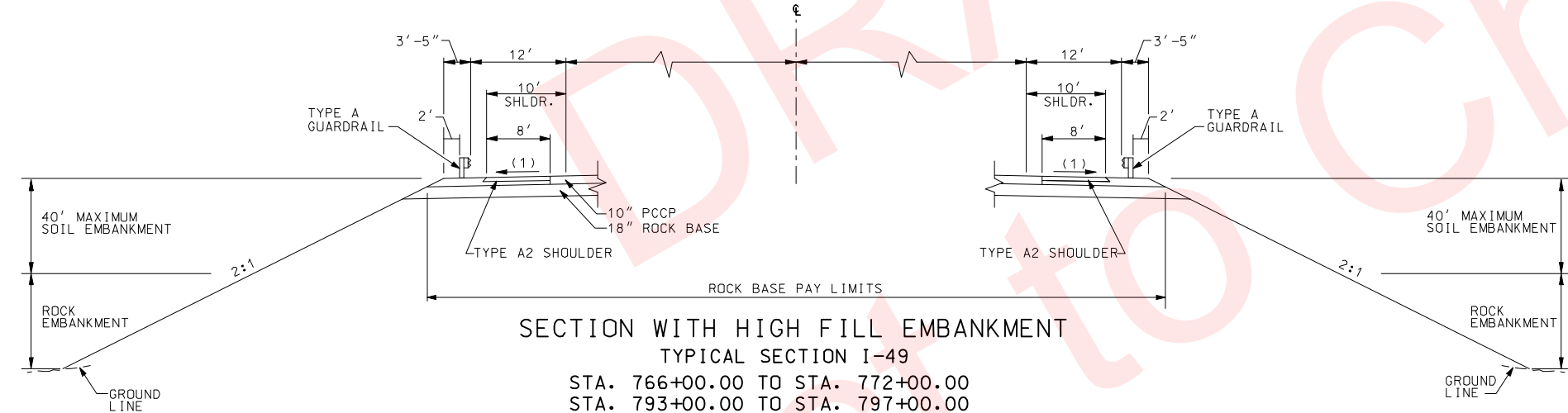
SECTION ON SUPERELEVATED CURVE

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

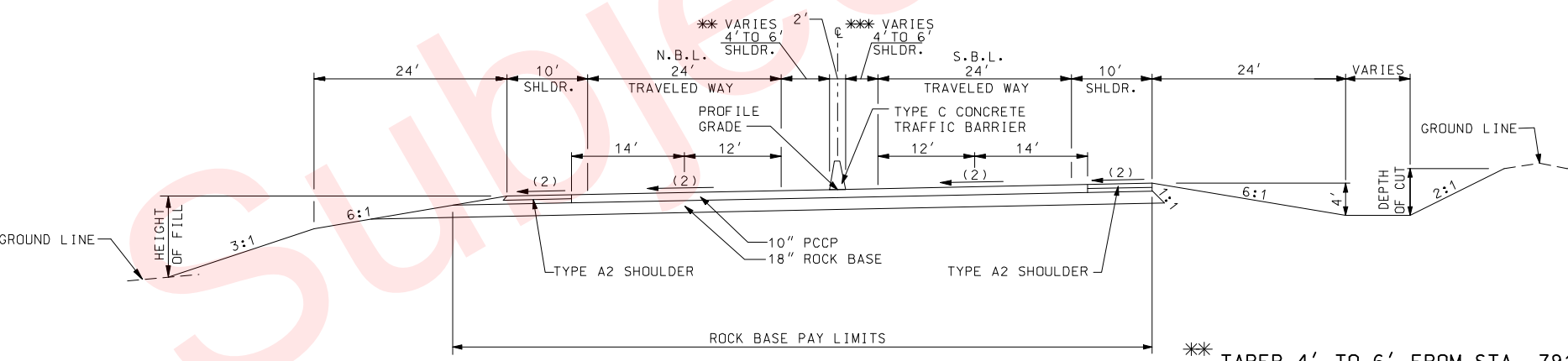


SECTION ON TANGENT
 TYPICAL SECTION I-49
 STA. 764+93.73 TO STA. 791+82.33
 STA. 823+42.05 TO STA. 829+00.52
 STA. 854+14.36 TO STA. 869+00.00
 STA. 944+14.86 TO STA. 969+00.00

* 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

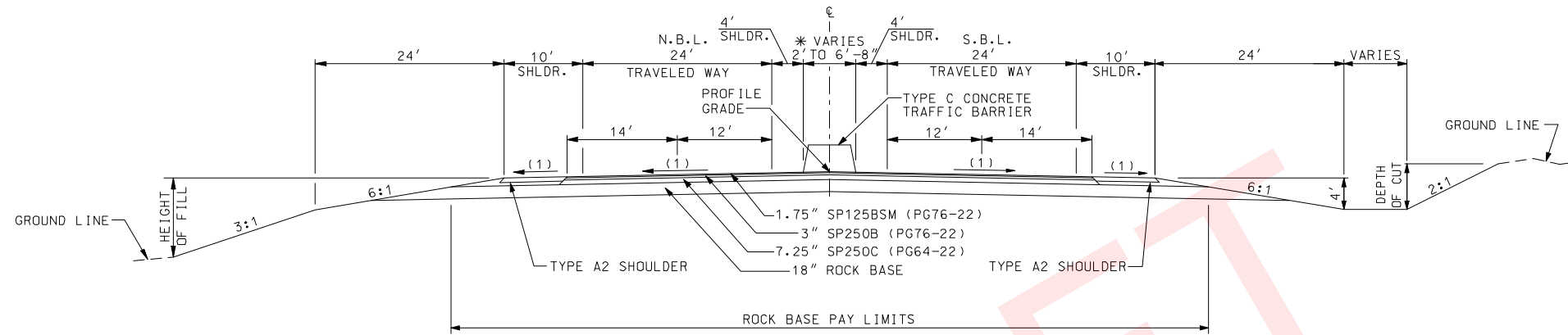
** TAPER 4' TO 6' FROM STA. 791+66.73 TO STA. 794+66.73
 TAPER 6' TO 4' FROM STA. 820+57.65 TO STA. 823+57.65
 *** TAPER 4' TO 6' FROM STA. 828+84.92 TO 831+84.92
 TAPER 6' TO 4' FROM STA. 851+29.96 TO STA. 854+21.96

I-49 NORMAL SUPERELEVATION TRANSITION		
STATION	SECTION	REMARKS
764+93.73		← -2.0% 10' 12' 12' 7' 7' 12' 12' 10' → NORMAL SLOPE
791+82.33	A-A	← -2.0% 10' 12' 12' 5.10' 5' 12' 12' 10' → NORMAL SLOPE
792+90.33	B-B	← 0.0% 10' 12' 12' 5.82' 5' 12' 12' 10' → NORMAL SLOPE
793+98.33	C-C	← -2.0% 10' 12' 12' 6.54' 5' 12' 12' 10' → REVERSE CROWN
795+54.93	D-D	← -4.9% 10' 12' 12' 7' 5' 12' 12' 10' → FULL SUPER
819+69.45	D-D	← -4.9% 10' 12' 12' 7' 5' 12' 12' 10' → FULL SUPER
821+26.05	C-C	← -2.0% 10' 12' 12' 6.54' 5' 12' 12' 10' → REVERSE CROWN
822+34.05	B-B	← 0.0% 10' 12' 12' 5.82' 5' 12' 12' 10' → NORMAL SLOPE
823+42.05	A-A	← -2.0% 10' 12' 12' 5.10' 5' 12' 12' 10' → NORMAL SLOPE
829+00.52	A-A	← -2.0% 10' 12' 12' 5' 5.10' 12' 12' 10' → NORMAL SLOPE
830+08.52	B-B	← -2.0% 10' 12' 12' 5' 5.82' 12' 12' 10' → NORMAL SLOPE
831+16.52	C-C	← -2.0% 10' 12' 12' 5' 6.54' 12' 12' 10' → REVERSE CROWN
832+73.12	D-D	← -4.9% 10' 12' 12' 5' 7' 12' 12' 10' → FULL SUPER
850+41.76	D-D	← -4.9% 10' 12' 12' 5' 7' 12' 12' 10' → FULL SUPER
851+98.36	C-C	← -2.0% 10' 12' 12' 5' 6.54' 12' 12' 10' → REVERSE CROWN
853+06.36	B-B	← -2.0% 10' 12' 12' 5' 5.82' 12' 12' 10' → NORMAL SLOPE
854+14.36	A-A	← -2.0% 10' 12' 12' 5' 5.10' 12' 12' 10' → NORMAL SLOPE
874+95.92	A-A	← -2.0% 10' 12' 12' 6.69' 6.69' 12' 12' 10' → NORMAL SLOPE
876+03.92	B-B	← -2.0% 10' 12' 12' 5.97' 5.97' 12' 12' 10' → NORMAL SLOPE
877+11.92	C-C	← -2.0% 10' 12' 12' 5.29' 5.29' 12' 12' 10' → REVERSE CROWN
941+98.86	C-C	← -2.0% 10' 12' 12' 5' 5' 12' 12' 10' → REVERSE CROWN
943+06.86	B-B	← -2.0% 10' 12' 12' 5' 5' 12' 12' 10' → NORMAL SLOPE
944+14.86	A-A	← -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.

*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.:
 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

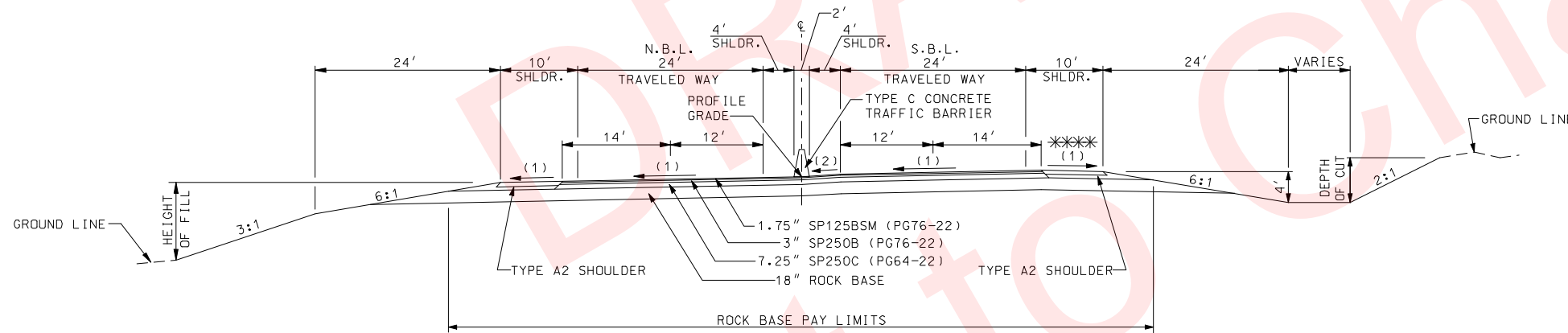
CROSS SLOPE

- (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.

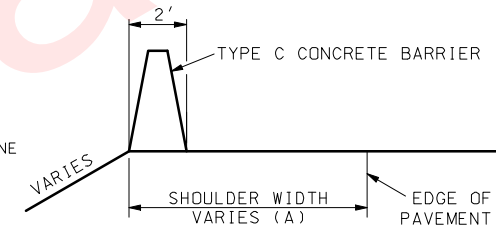


SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION I-49

STA. 877+50.00 TO STA. 944+14.86

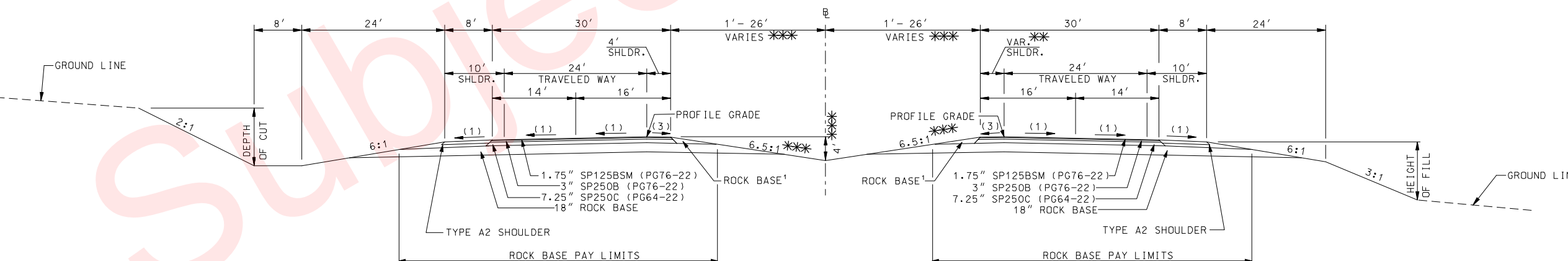
**** MATCH S.E. SLOPE FROM STA. 877+50.00 TO STA. 887+77.39



** 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.



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

*** 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

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)

MoDOT

REV.

CROSS SLOPE

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

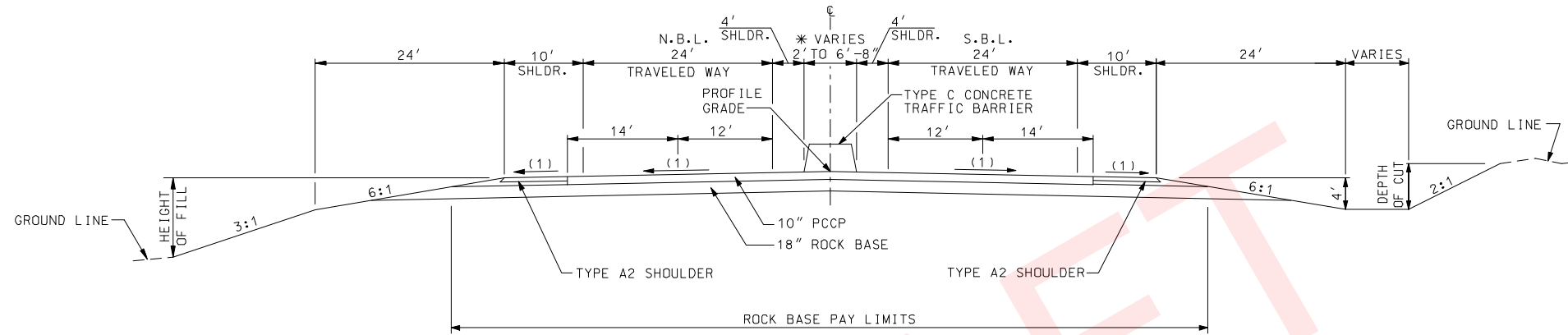
(2) 6.0% (TRANSITION FROM 2.0% TO 6.0% FROM STA. 877+50.00 TO STA. 878+00.00 AND TRANSITION FROM 6.0% TO 2.0% FROM STA. 941+48.86 TO STA. 941+98.86)

(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

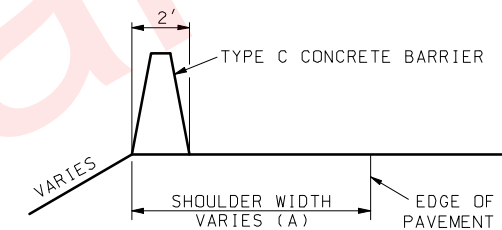
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SECTION ON TANGENT
TYPICAL SECTION I-49

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



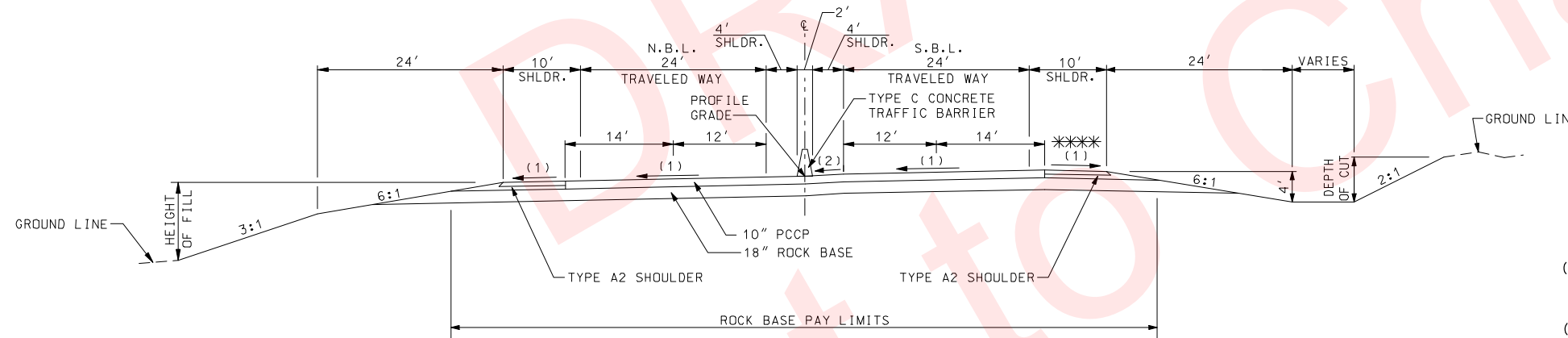
** LT SHOULDER WIDENING FOR CONCRETE BARRIER I-49 S.B.L. LT

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

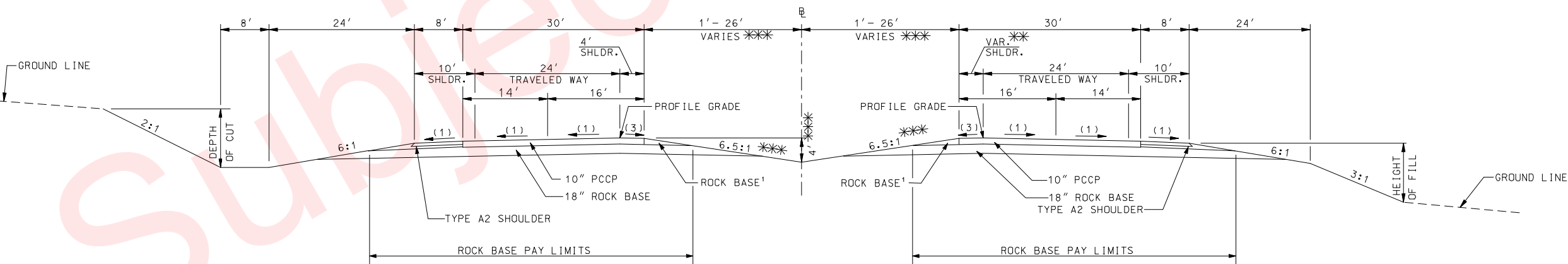
(A)³ WIDTH = 4' FROM STA. 981+00.00 TO STA. 987+32.82.



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



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 B (CONCRETE)
TYPICAL SECTION
SHEET 8 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



REV.

"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

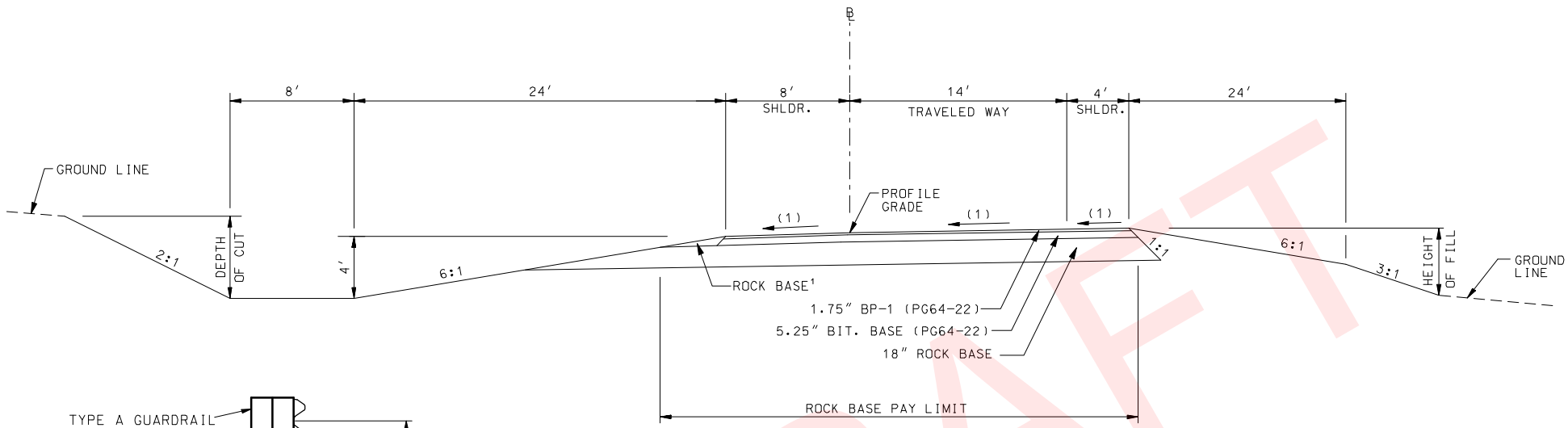
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

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

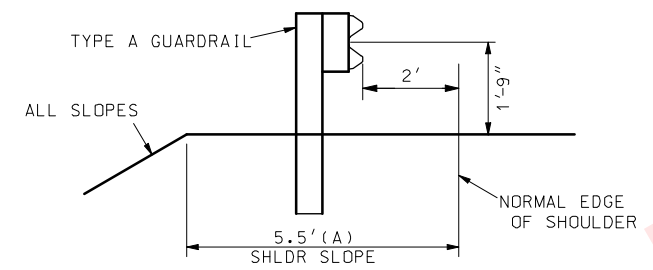
RAMP 3 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
3000+12.06		$\overleftarrow{-0.52\%}$	
3013+15.62	G-G	$\overleftarrow{-2.0\%}$	BEGIN SUPER RUNOFF
3014+48.62	H-H	$\overleftarrow{-5.0\%}$	BEGIN FULL SUPER
3018+38.22	H-H	$\overleftarrow{-5.0\%}$	END FULL SUPER
3022+11.42	G-G	$\overleftarrow{-2.0\%}$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

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



SECTION ON TANGENT AND SUPERELEVATION CURVE
TYPICAL SECTION

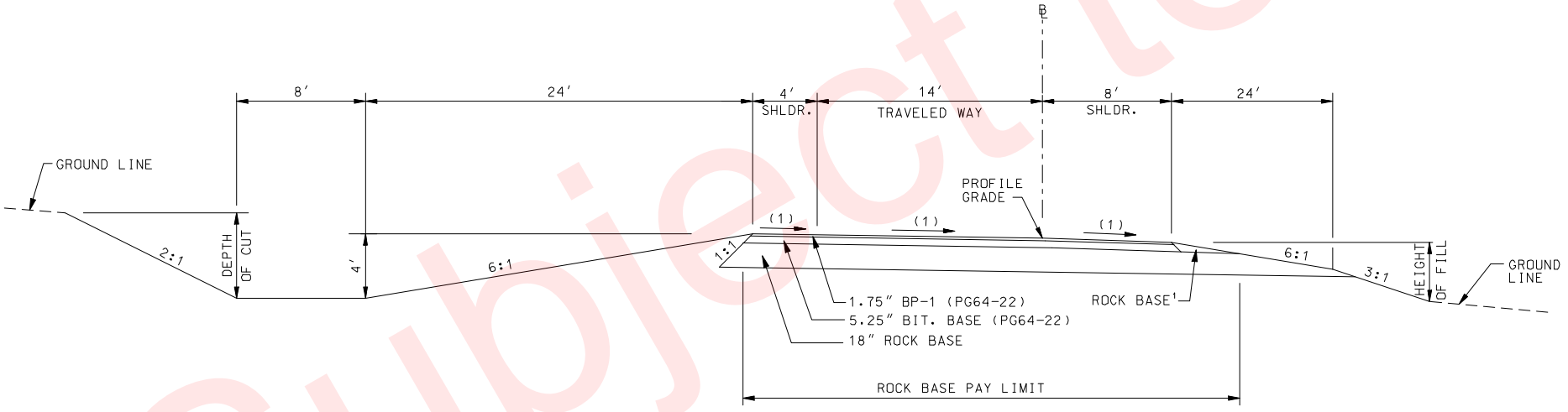
RAMP 1 STA. 1003+22.28 TO STA. 1015+67.89
RAMP 3 STA. 3000+12.06 TO STA. 3017+79.76



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.

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

"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.

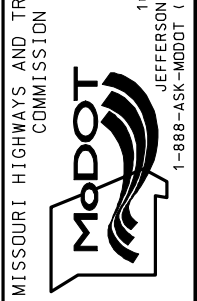
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



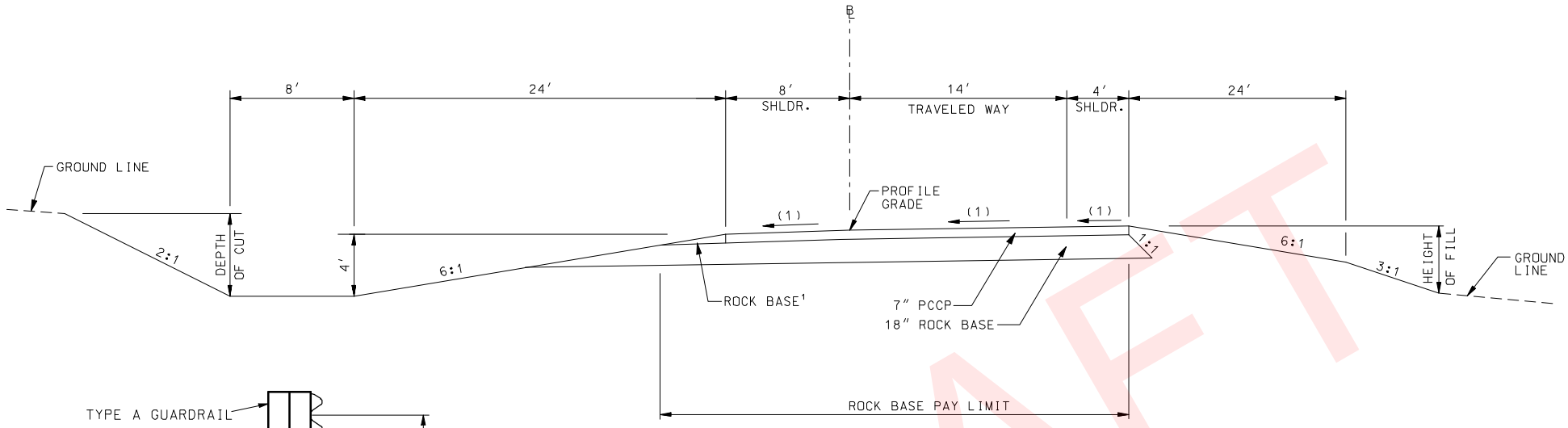
REV.

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			
STATION		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%	

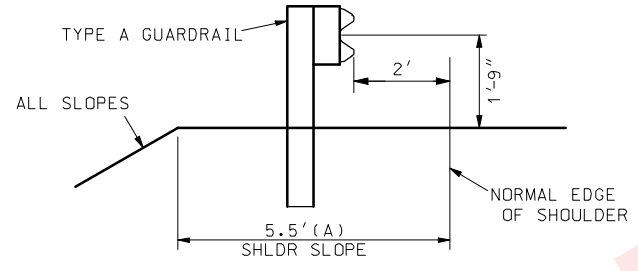
RAMP 3 NORMAL SUPERELEVATION TRANSITION			
STATION		SECTION	REMARKS
3000+12.06		← -0.52%	
3013+15.62	G-G	← -2.0%	BEGIN SUPER RUNOFF
3014+48.62	H-H	← -5.0%	BEGIN FULL SUPER
3018+38.22	H-H	← -5.0%	END FULL SUPER
3022+11.42	G-G	← -2.0%	END SUPER RUNOFF

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



SECTION ON TANGENT AND SUPERELEVATION CURVE
TYPICAL SECTION

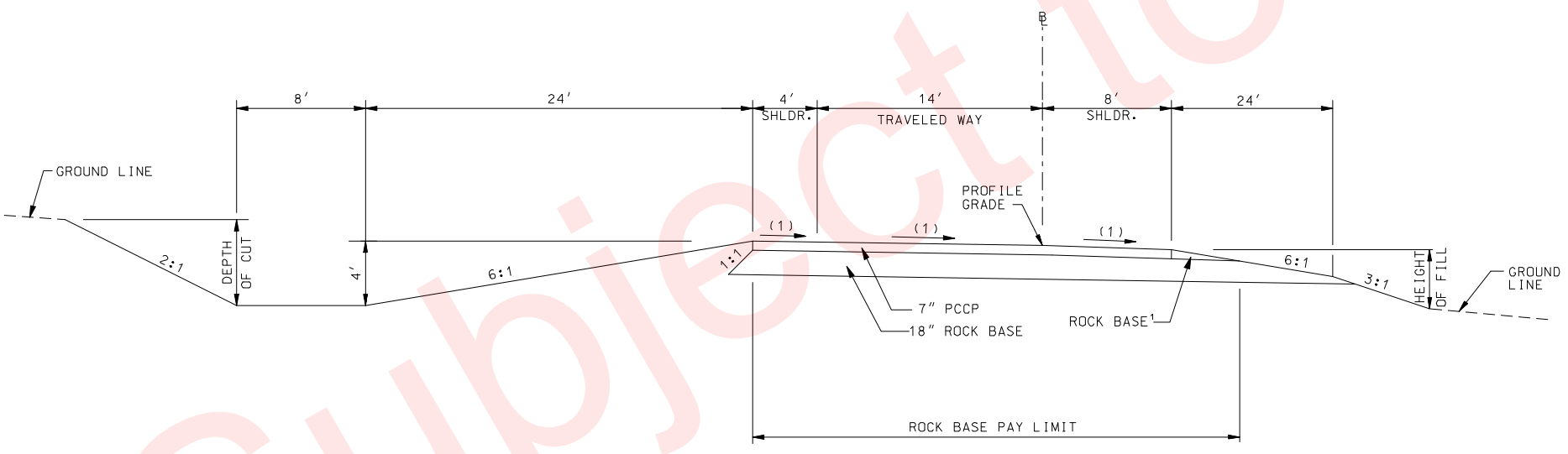
RAMP 1 STA. 1003+22.28 TO STA. 1015+67.89
RAMP 3 STA. 3000+12.06 TO STA. 3017+79.76



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

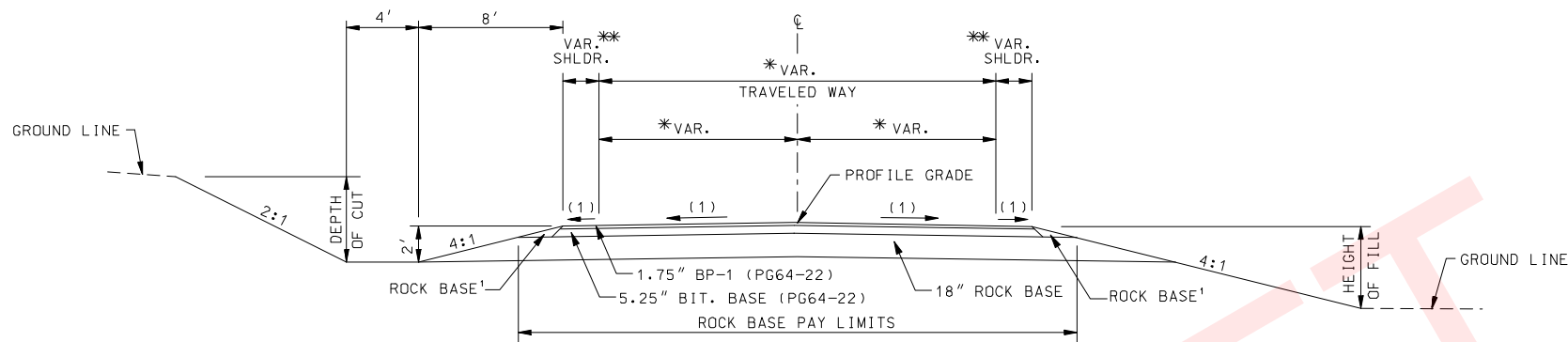
CROSS SLOPE
(1) SEE S.E. TABLE

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

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



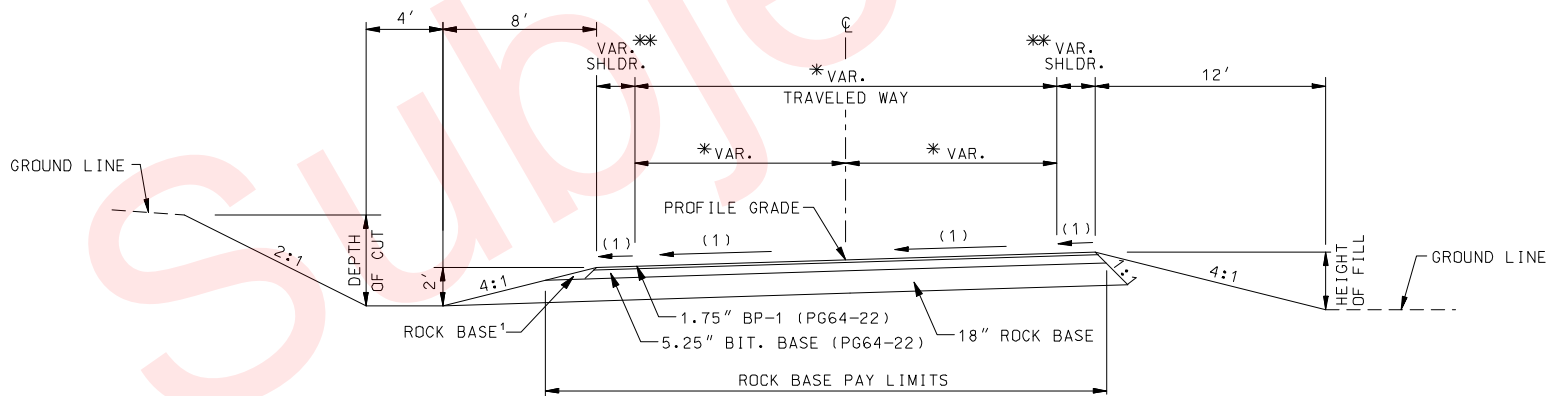
SECTION ON TANGENT
TYPICAL SECTION ROUTE 90
STA. 43+25.00 TO STA. 46+56.09
STA. 55+36.31 TO STA. 58+91.18

***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 STA. 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.



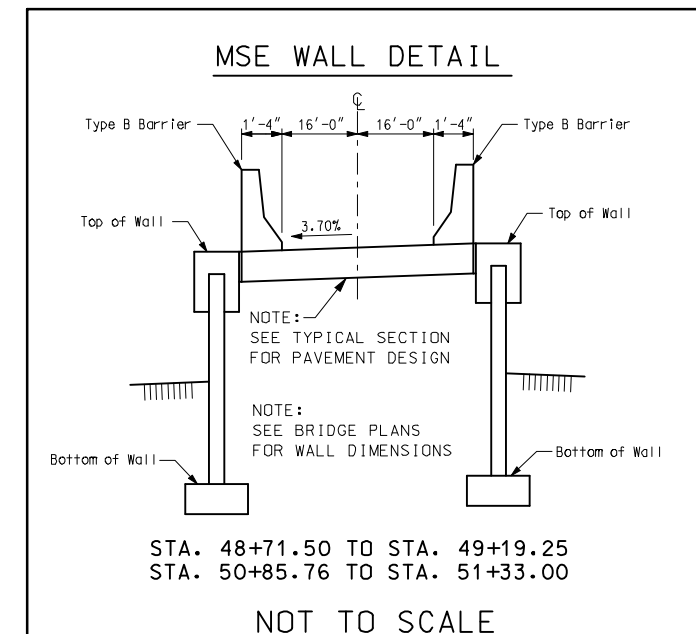
SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION ROUTE 90
STA. 46+56.09 TO STA. 48+71.50
STA. 51+33.00 TO STA. 55+36.31
STA. 58+91.18 TO STA. 61+00.00

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% 0% -2.0% → 2' 10' 10' 2'	MATCH EXIST. SUPER
46+56.09	A-A	← -2.0% 0% -2.0% → 3.36' 11.62' 11.58' 3.28'	BEGIN TANGENT RUNOFF
47+04.20	B-B	← -2.0% 0% 0.0% → 3.85' 11.92' 11.87' 3.76'	BEGIN SUPER RUNOFF
47+52.31	C-C	← -2.0% 0% +2.0% → 4' 12' 12' 4'	REVERSE CROWN
47+93.20	D-D	← -3.7% 0% +3.7% → 4' 12' 12' 4'	BEGIN FULL SUPER
53+99.20	D-D	← -3.7% 0% +3.7% → 2.91' 11.37' 11.21' 2.67'	END FULL SUPER
54+40.09	C-C	← -2.0% 0% +2.0% → 2.24' 11.14' 11' 2.24'	REVERSE CROWN
54+88.20	B-B	← -2.0% 0% 0.0% → 2.08' 11' 11' 2'	END SUPER RUNOFF
55+36.31	A-A	← -2.0% 0% -2.0% → 2' 11' 11' 2'	BEGIN TANGENT
58+91.18	A-A	← -2.0% 0% -2.0% → 2' 11' 11' 2'	BEGIN TANGENT RUNOFF
59+39.72	B-B	← -2.0% 0% 0.0% → 2' 11' 11' 2'	BEGIN SUPER RUNOFF
59+88.26	C-C	← -2.0% 0% +2.0% → 2' 11' 11' 2'	REVERSE CROWN
60+22.72	D-D	← -3.42% 0% +3.42% → 2' 10.77' 10.77' 2'	BEGIN FULL SUPER
61+00.00		← -3.42% 0% +3.42% → 2' 10' 10' 2'	MATCH EXIST. SUPER



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

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ROUTE 90
ALTERNATE A (ASPHALT)
TYPICAL SECTION
SHEET 11 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.

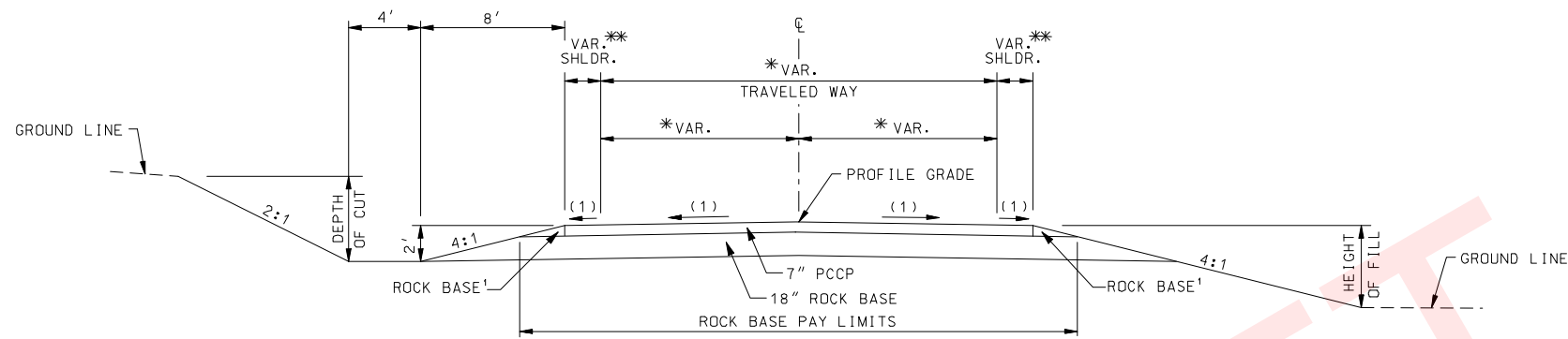
PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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



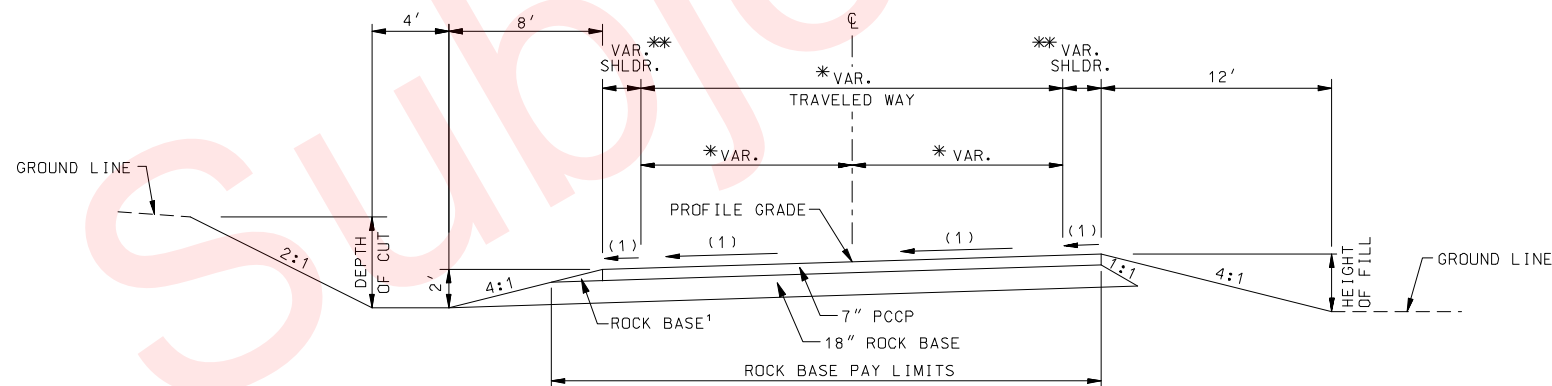
SECTION ON TANGENT
TYPICAL SECTION ROUTE 90
STA. 43+25.00 TO STA. 46+56.09
STA. 55+36.31 TO STA. 58+91.18

*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 STA. 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.



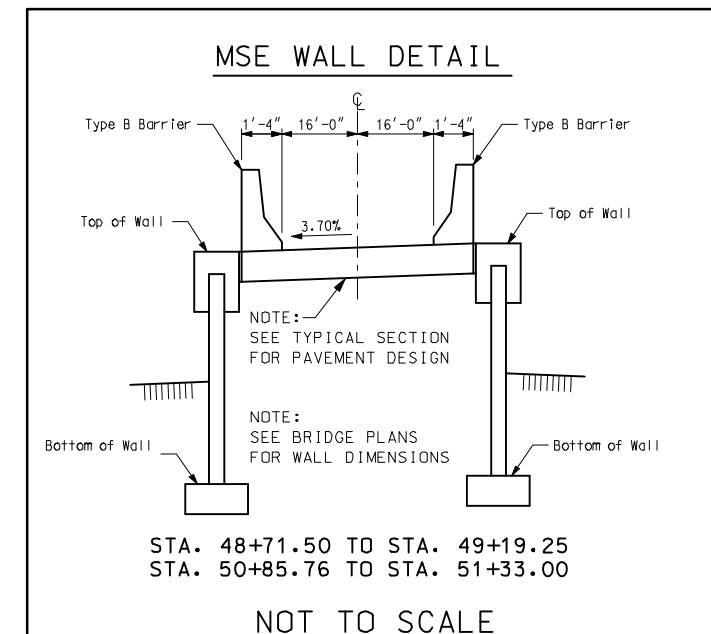
SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION ROUTE 90
STA. 46+56.09 TO STA. 48+71.50
STA. 51+33.00 TO STA. 55+36.31
STA. 58+91.18 TO STA. 61+00.00

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



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

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

MoDOT

REV.

"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.

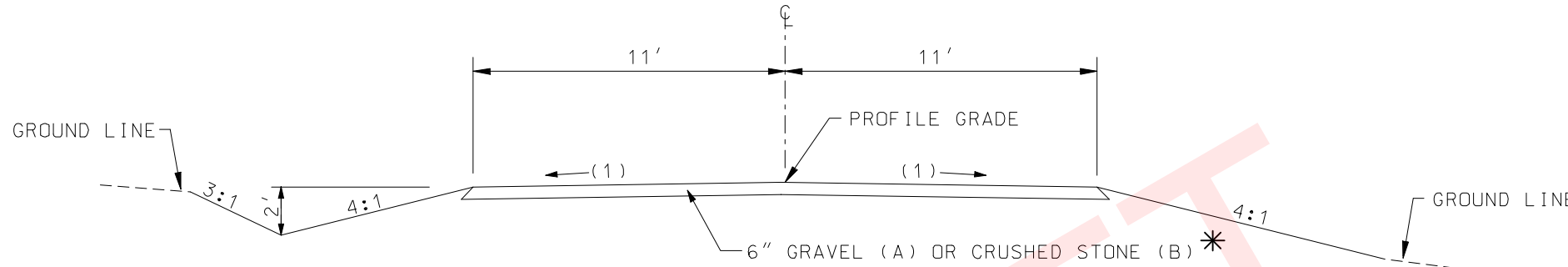
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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

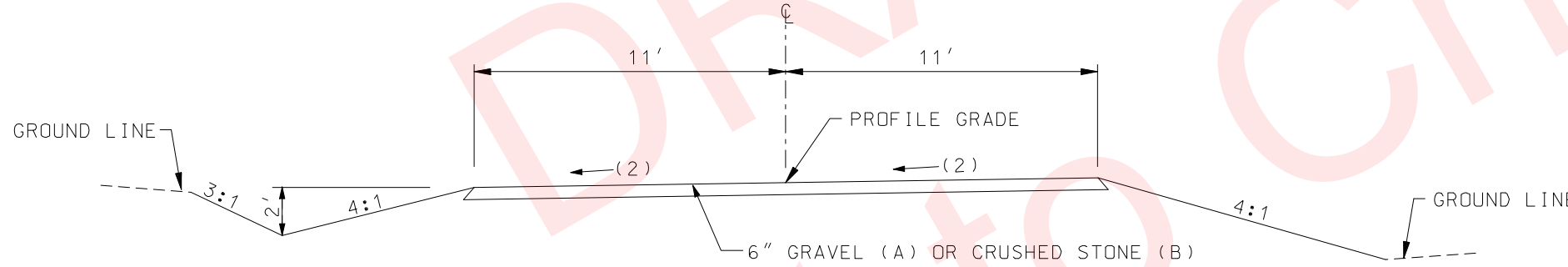
REV.



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

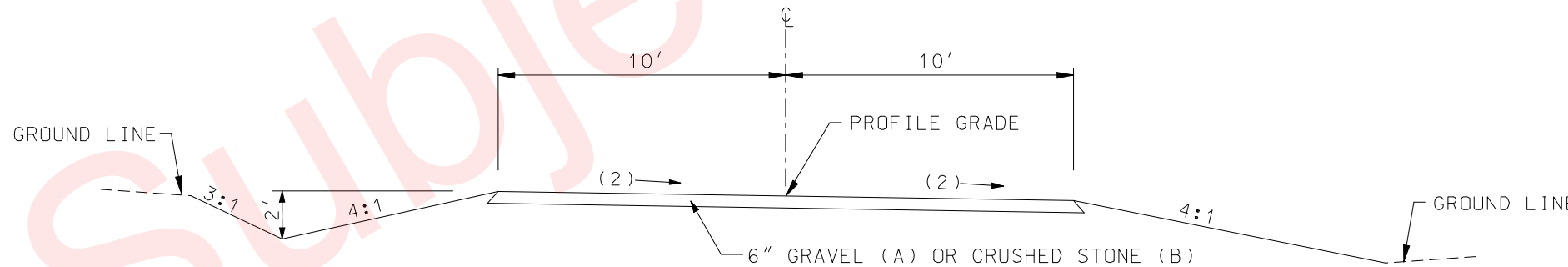
SECTION ON TANGENT

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 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

NOTES:

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

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

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

Table with columns: 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. Includes rows for sheets 7, 10, 15, 21, 25 and a TOTAL/USE summary row.

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

Table with columns: SHEET, RTE., STATION, SKEW, FILL HEIGHT (FT.), STD., LENGTH (FT), FLARED END SEC. (EA), ROCK LINING (CU. YD), REMARKS. Includes rows for sheets 17, 21 and a TOTAL/USE summary row.

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

Table with columns: SHEET, RTE., STATION, SKEW, FILL HEIGHT (FT.), STD., LENGTH (FT), FLARED END SEC. (EA), ROCK LINING (CU. YD), REMARKS. Includes rows for sheets 4, 10, 13, 15, 21 and a TOTAL/USE summary row.

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

Table with columns: SHEET, RTE., STATION, SKEW, FILL HEIGHT (FT.), LENGTH (FT), FLARED END SEC. (EA), REMARKS. Includes rows for sheets 7, 29 and a TOTAL/USE summary row.

SLOTTED DRAINS

Table with columns: SHEET, STA., TO, STA., LOCATION, SIZE, LENGTH (L.F.), REMARKS. Includes row 144 and a TOTAL summary row.

GROUP B PIPE (CROSSROAD PIPES)

Table with columns: SHEET, RTE., STATION, SKEW, FILL HEIGHT (FT.), LENGTH (FT), 18" FLARED END SEC. (EA), ROCK LINING (CU. YD), REMARKS. Includes rows for sheets 33 and a TOTAL/USE summary row.

GROUP C PIPE

Table with columns: SHEET, RTE., STATION, SKEW, FILL HEIGHT (FT.), LENGTH (FT), 18" FLARED END SEC. (EA), ROCK LINING (CU. YD), REMARKS. Includes row 35 and a TOTAL/USE summary row.

CONCRETE SLOPE PROTECTION

Table with columns: SHEET, BEGIN STATION, END STATION, LENGTH (FT.), WIDTH (FT.), CONCRETE SLOPE PROTECTION (SQYD), REMARKS. Includes rows for sheets 17, 33 and a TOTAL summary row.

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

Table with columns: SHEET, RTE., STATION, SKEW, FILL HEIGHT (FT), STD., LENGTH (FT), FLARED END SEC. (EA), ROCK LINING (CU. YD), REMARKS. Includes row 17 and a TOTAL/USE summary row.

GROUP B PIPE (MEDIAN DRAINS)

Table with columns: SHEET, LOC., STATION TO, STATION, LENGTH (FT), REMARKS. Includes rows for sheets 13, 15, 21, 25 and a TOTAL/USE summary row.

PLACING TYPE 2 ROCK DITCH LINER

Table with columns: SHEET, STATION TO, STATION, LOCATION, DEPTH (FT.), BOTTOM WIDTH (FT.), LENGTH (FT.), INSLOPE, BACKSLOPE, PLACING TYPE 2 (C.Y.), REMARKS. Includes rows for sheets 7, 13, 15, 17, 21 and a TOTAL/USE summary row.

PLACING TYPE 3 ROCK DITCH LINER

Table with columns: SHEET, STATION TO, STATION, LOCATION, DEPTH (FT.), BOTTOM WIDTH (FT.), LENGTH (FT.), INSLOPE, BACKSLOPE, PLACING TYPE 3 (C.Y.), BEDDING MATERIAL (C.Y.), REMARKS. Includes rows for sheets 13, 15, 17, 21, 25 and a TOTAL/USE summary row.

PLACING TYPE 4 ROCK DITCH LINER

Table with columns: SHEET, STATION TO, STATION, LOCATION, DEPTH (FT.), BOTTOM WIDTH (FT.), LENGTH (FT.), INSLOPE, BACKSLOPE, PLACING TYPE 4 (C.Y.), BEDDING MATERIAL (C.Y.), REMARKS. Includes rows for sheets 7, 13, 17, 21 and a TOTAL/USE summary row.

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.

Table with columns: DESCRIPTION, DATE

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



REVISIONS
1
2
3

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 4 OF 10

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

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

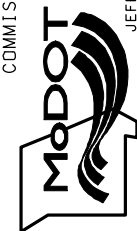


DESCRIPTION

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.

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 5 OF 10

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)

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								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		2			2			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				
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						755			0
65, 66	764+98.00	-	772+53.00	I-49	RT						755			0
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

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	-							

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 6 OF 10

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

TEMPORARY EROSION CONTROL (CONTINUED)

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	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					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	-	783+10.00	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		DROP INLET PROTECTION
67	797+33.00	-		I-49	LT			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	LT			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	LT			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	LT			1		1				DROP INLET PROTECTION
67	810+00.00	-		I-49	LT			1		1				DROP INLET PROTECTION
67	814+00.00	-		I-49	LT			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	LT			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	LT			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	LT			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	LT			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	LT			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	

SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	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				
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									

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 8 OF 10

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

TEMPORARY EROSION CONTROL (CONTINUED)														
SHEET	STA.	TO	STA.	ROADWAY	LOC.	SILT FENCE (L.F.)	DITCH CHECK (EA.)	INLET CHECK (EA.)	SEDIMENT TRAP (CUYD)	SEDIMENT REMOVAL (CUYD)	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 CD. RD.	LT	1061				11				
76	699+90.00	-	710+72.00	SUMNER CD. RD.	RT	1104				11				
76	700+00.00	-	710+00.00	SUMNER CD. RD.	LT		11		11					
76	700+00.00	-	710+00.00	SUMNER CD. RD.	RT		11		11					
77	700+50.00	-	710+84.00	KELLEY CD. RD.	LT	1103				11				
77	700+50.00	-	710+40.00	KELLEY CD. RD.	RT	984				10				
77	700+52.00	-	701+18.00	KELLEY CD. RD.	LT		2		2					
77	700+52.00	-	701+18.00	KELLEY CD. RD.	RT		2		2					
77	701+59.00			KELLEY CD. RD.	LT		1		1					
77	701+59.00			KELLEY CD. RD.	RT		1		1					
77	703+05.00	-	704+05.00	KELLEY CD. RD.	LT		2		2					
77	703+05.00	-	704+05.00	KELLEY CD. RD.	RT		2		2					
77	704+05.00	-	707+25.00	KELLEY CD. RD.	LT		8		8					
77	704+05.00	-	707+25.00	KELLEY CD. RD.	RT		8		8					
77	709+05.00			KELLEY CD. RD.	LT		1		1					
77	709+05.00			KELLEY CD. RD.	RT		1		1					
77	710+37.00			KELLEY CD. RD.	RT		1		1					
77	710+79.00			KELLEY CD. 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	

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	

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	

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	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	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

"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)

SUBGRADING AND SHOULDERING - CLASS 1

Table with 6 columns: SHEET, STATION, TO, STATION, RTE., LENGTH (STA.), REMARKS. Contains data for subgrading and shouldering work.

SUBGRADE COMPACTION - (6 INCH DEPTH)

Table with 6 columns: SHEET, STATION, TO, STATION, RTE., LENGTH (STA.), REMARKS. Contains data for subgrade compaction.

COMPACTING IN CUT

Table with 6 columns: SHEET, STATION, TO, STATION, RTE., LENGTH (STA.), REMARKS. Contains data for compacting in cut across multiple sheets.

EARTHWORK SUMMARY

Table with 7 columns: SHEET, STATION, TO, STATION, LOCATION, UNCLASSIFIED EXCAVATION (C.Y.), COMPACTING EMBANKMENT (C.Y.), REMARKS. Provides a summary of earthwork activities.

"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)



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

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

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

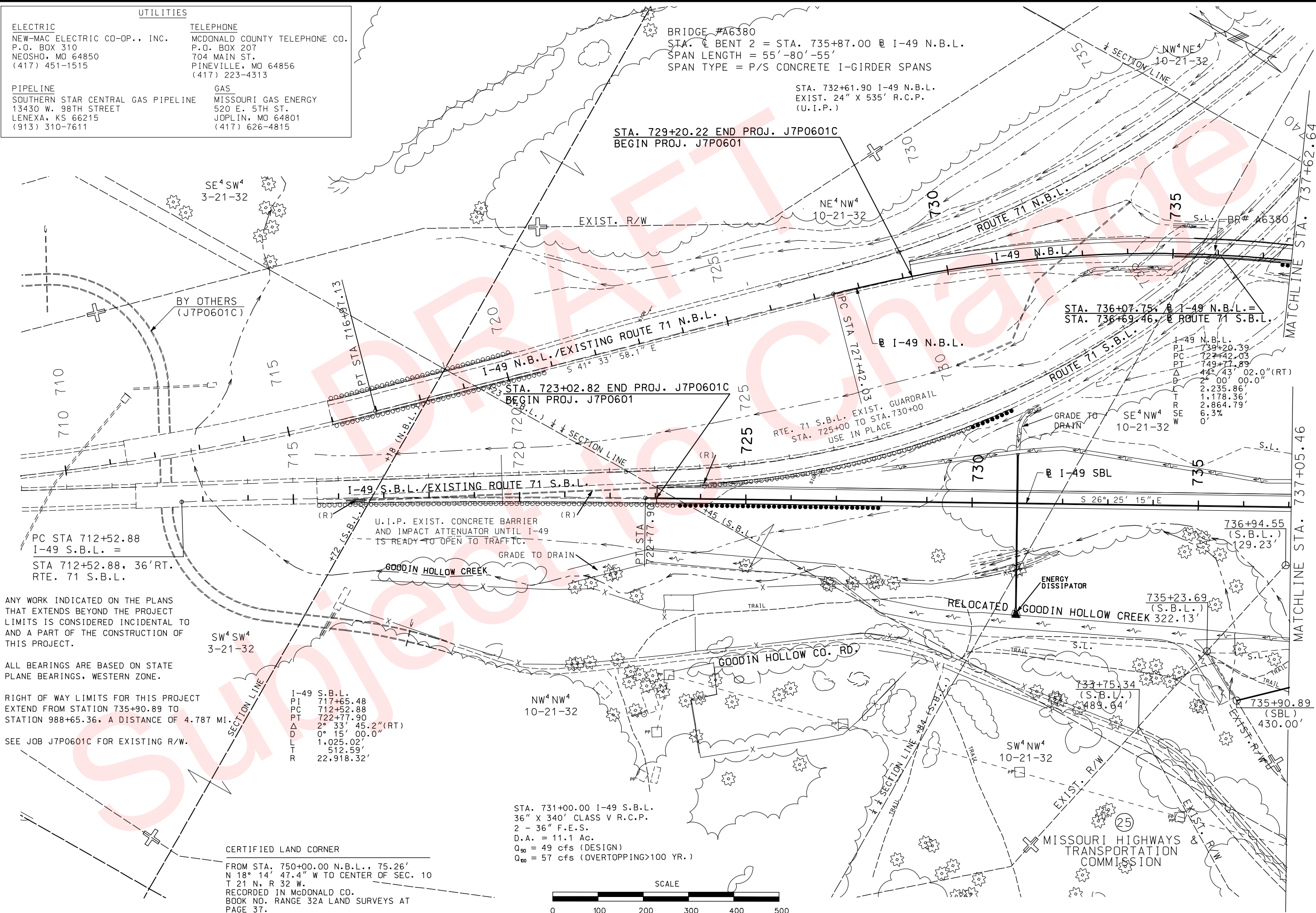
BRIDGE #A6380
 STA. @ BENT 2 = STA. 735+87.00 @ I-49 N.B.L.
 SPAN LENGTH = 55'-80'-55'
 SPAN TYPE = P/S CONCRETE I-GIRDER SPANS

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

STA. 729+20.22 END PROJ. J7P0601C
 BEGIN PROJ. J7P0601

STA. 723+02.82 END PROJ. J7P0601C
 BEGIN PROJ. J7P0601

STA. 736+07.75 @ I-49 N.B.L. =
 STA. 736+69.46 @ ROUTE 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.

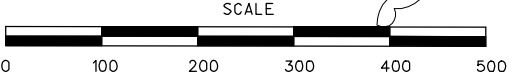
RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 735+90.89 TO STATION 988+65.36, A DISTANCE OF 4.787 MI.

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.



"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)

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. 5

COUNTY MCDONALD
JOB NO. J7P0601
CONTRACT ID.

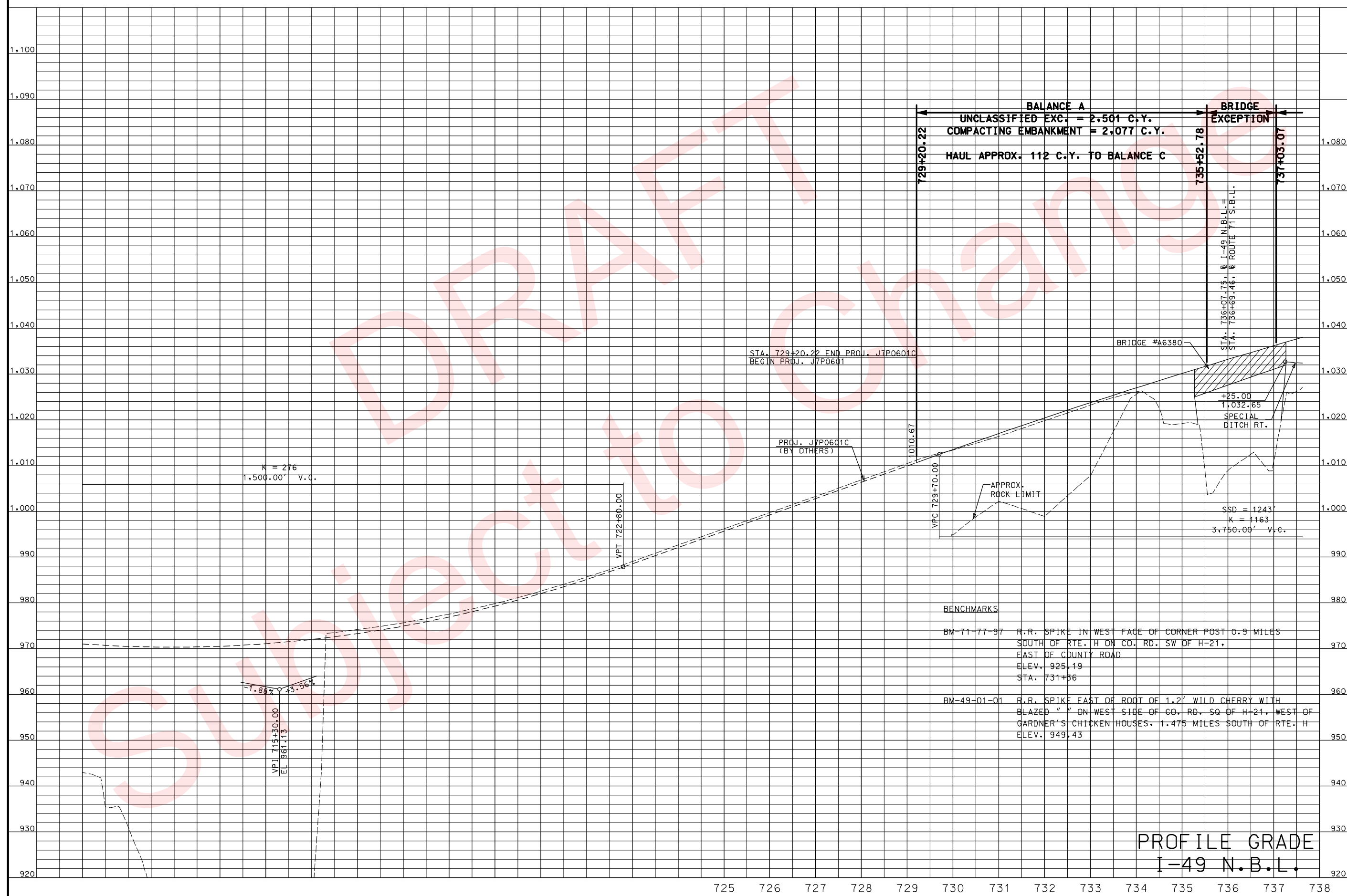
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BRIDGE NO.

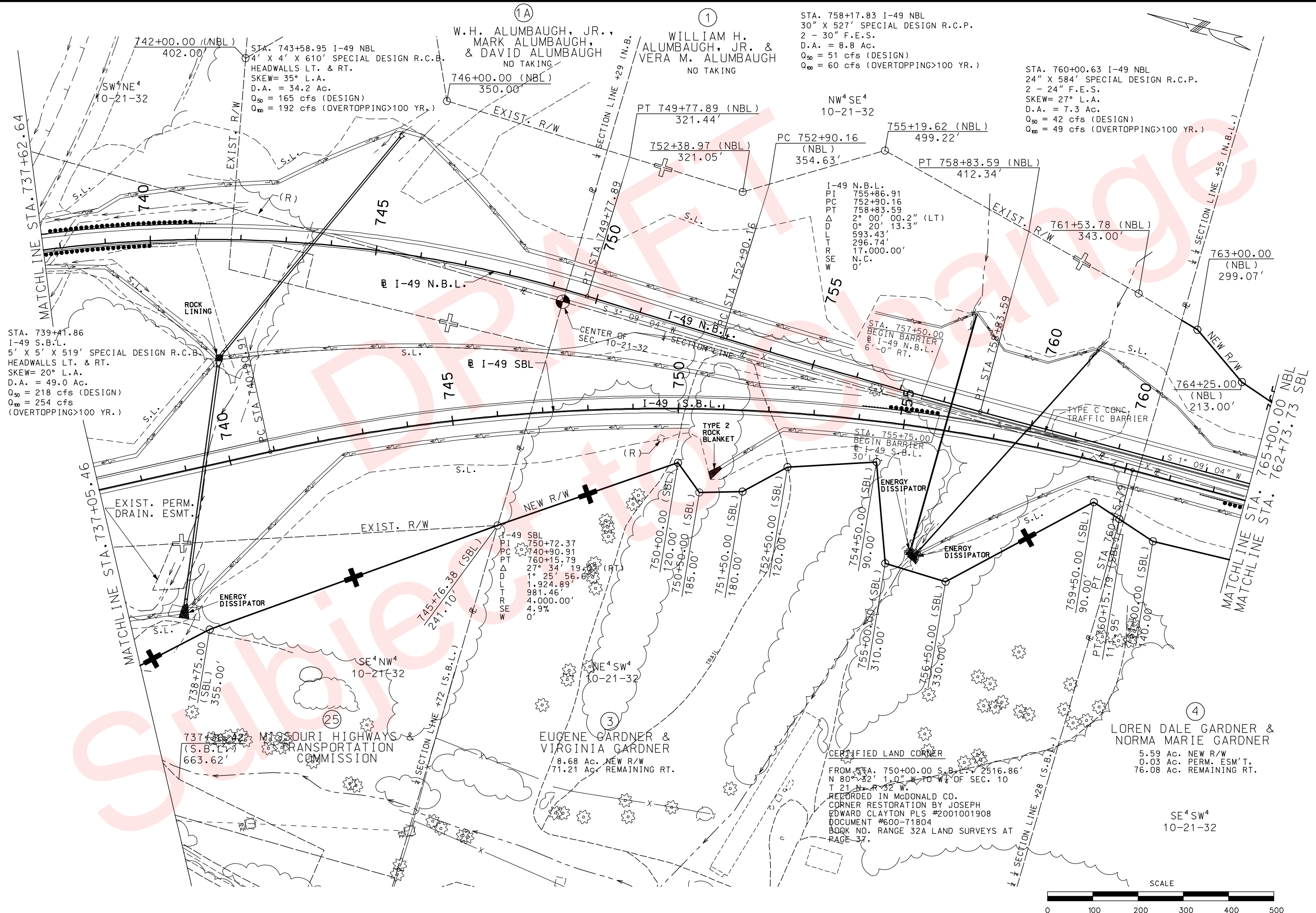
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

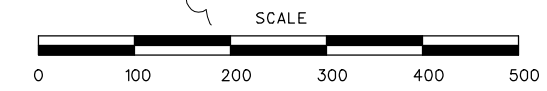
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.





"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."	
DATE PREPARED	02/04/2010
ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	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)



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

DATE PREPARED
02/04/2010

ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 8

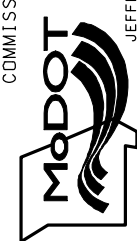
COUNTY MCDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

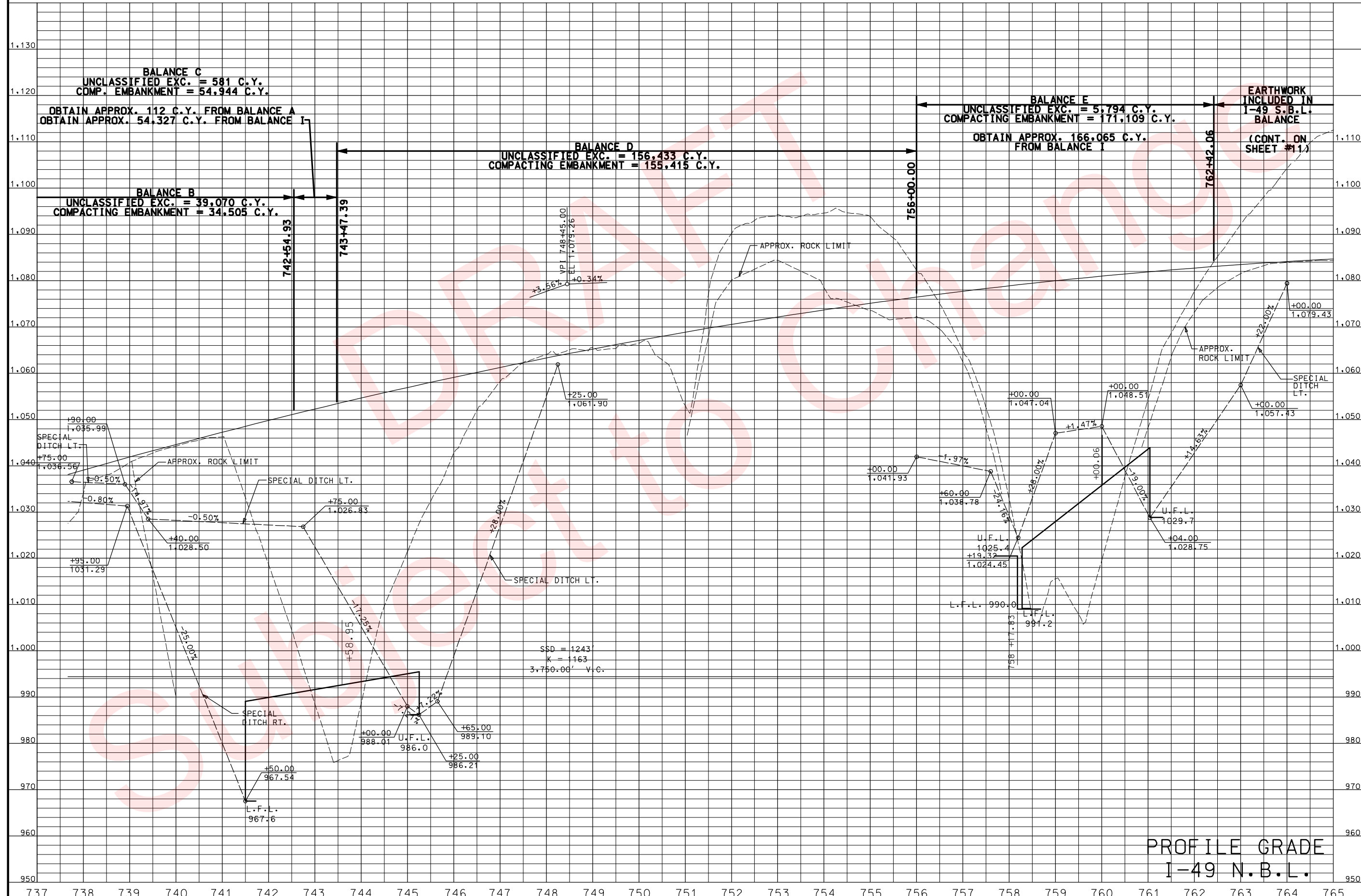
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



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



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. 9

COUNTY MCDONALD

JOB NO. J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

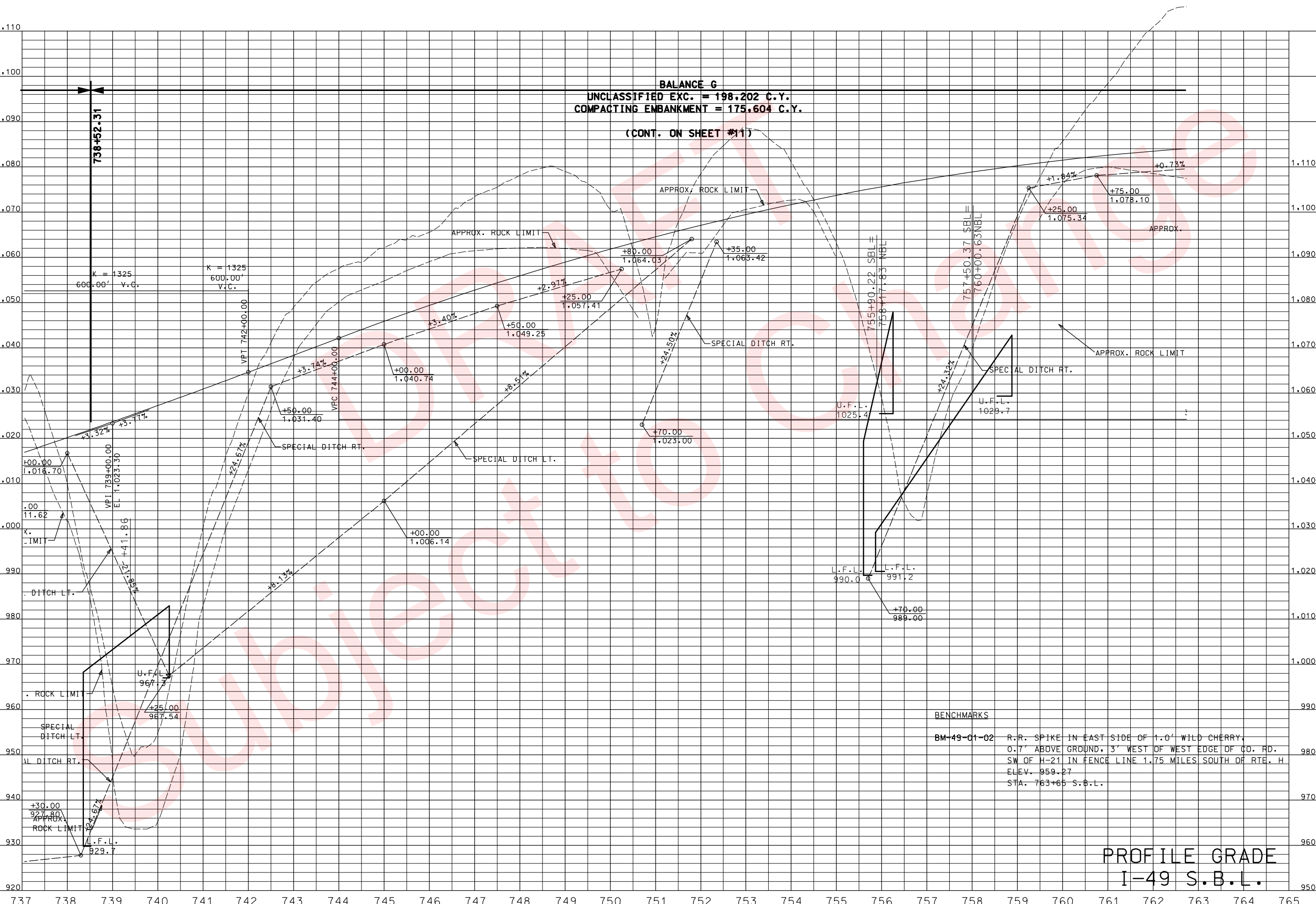


105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

REV.

BALANCE G
UNCLASSIFIED EXC. = 198.202 C.Y.
COMPACTING EMBANKMENT = 175.604 C.Y.

(CONT. ON SHEET #11)



BENCHMARKS
BM-49-01-02 R.R. SPIKE IN EAST SIDE OF 1.0' WILD CHERRY,
0.7' ABOVE GROUND, 3' WEST OF WEST EDGE OF CO. RD.
SW OF H-21 IN FENCE LINE 1.75 MILES SOUTH OF RTE. H
ELEV. 959.27
STA. 763+65 S.B.L.

PROFILE GRADE
I-49 S.B.L.

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

DATE PREPARED
02/04/2010

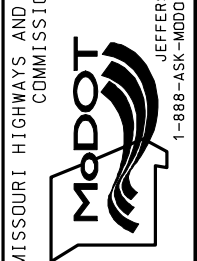
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 10

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)

②
RONALD D. PARMLEY &
CAROL E. PARMLEY
8.13 Ac. NEW R/W
71.88 Ac. REMAINING LT.

⑥
JOHN M. BROWN &
CHARLOTTE R. BROWN
5.62 Ac. NEW R/W
79.58 Ac. REMAINING LT.

SW⁴NE⁴
15-21-32

SW⁴NE⁴
15-21-32

NW⁴NE⁴
15-21-32

SW⁴SE⁴
10-21-32

STA. 768+06.77 I-49
10' X 8' X 504' SPECIAL DESIGN R.C.B.
HEADWALLS LT. & RT.
SKEW= 8° R.A.
D.A. = 280.0 Ac.
Q₅₀ = 903 cfs (DESIGN)
Q₁₀₀ = 1085 cfs (OVERTOPPING>100 YR.)

GARDNER PRIVATE ROAD
PI 1+51.67
PC 0+00.00
PT 1+59.37
Δ 130° 26' 58.3" (RT)
DLT 81° 51' 04.0"
L 159.37'
T 151.67'
R 70.00'

⑥A
MARK WATKINS &
CYNTHIA WATKINS
3.92 Ac. NEW R/W
6.09 Ac. REMAINING LT.

STA. 783+66.96 I-49
30" X 341' CLASS V R.C.P.
2 - 30" F.E.S.
SKEW= 13° R.A.
D.A. = 12.7 Ac.
Q₅₀ = 71 cfs (DESIGN)
Q₁₀₀ = 83 cfs (OVERTOPPING>100 YR.)

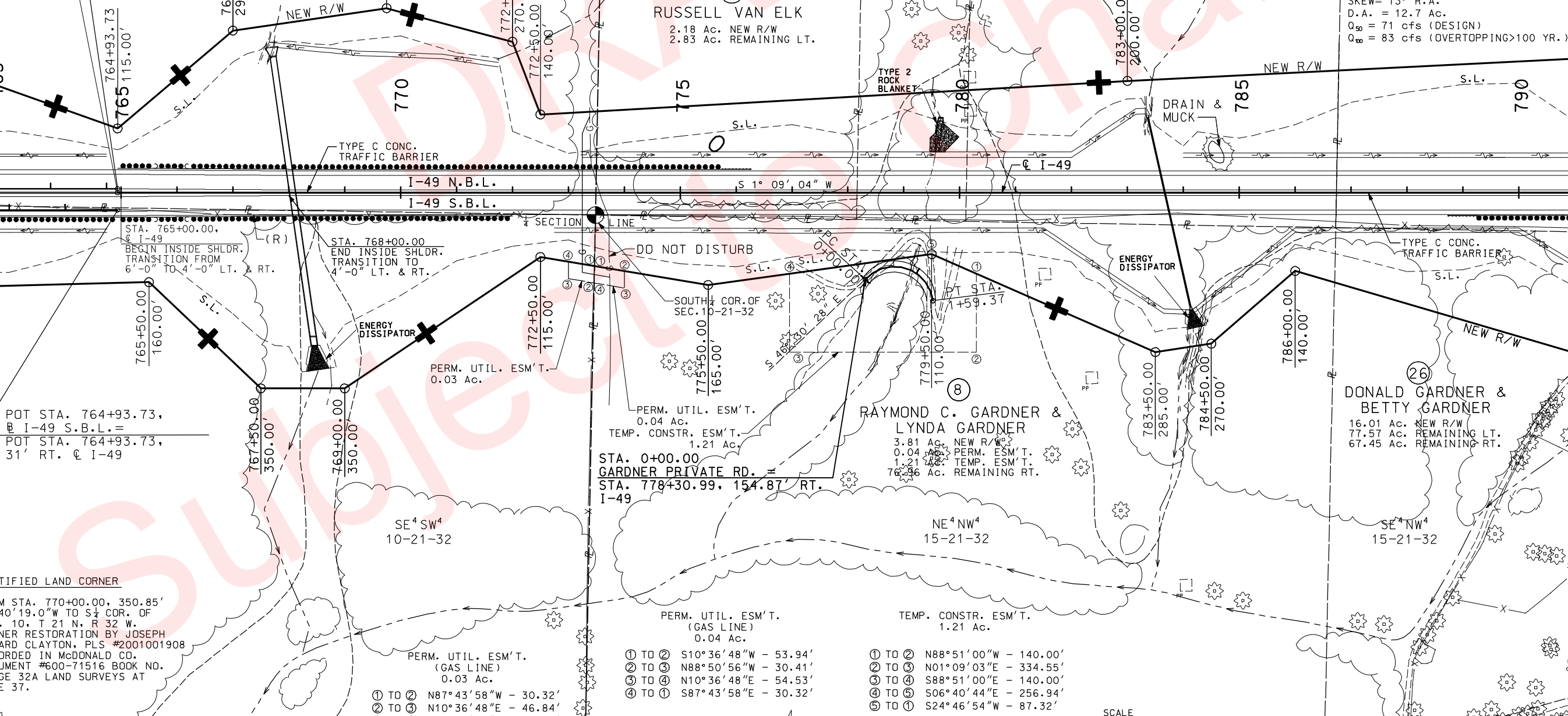
⑤
RUSSELL VAN ELK
2.18 Ac. NEW R/W
2.83 Ac. REMAINING LT.

POT STA. 767+20.00,
@ I-49 N.B.L.=
POT STA. 764+93.73,
7' LT. @ I-49

STA. 767+20.00
END BARRIER
@ I-49 N.B.L.=
STA. 764+93.73
@ I-49 BEGIN BARRIER
0'-0" LT. & RT.

MATCH LINE STA. 765+00.00 N.B.L.
MATCH LINE STA. 762+73.73 S.B.L.

MATCH LINE STA. 791+00.00



POT STA. 764+93.73,
@ I-49 S.B.L.=
POT STA. 764+93.73,
31' RT. @ I-49

CERTIFIED LAND CORNER

FROM STA. 770+00.00, 350.85'
S7°40'19.0"W TO S $\frac{1}{2}$ 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'

SCALE



"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

DATE

DESCRIPTION

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

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

990

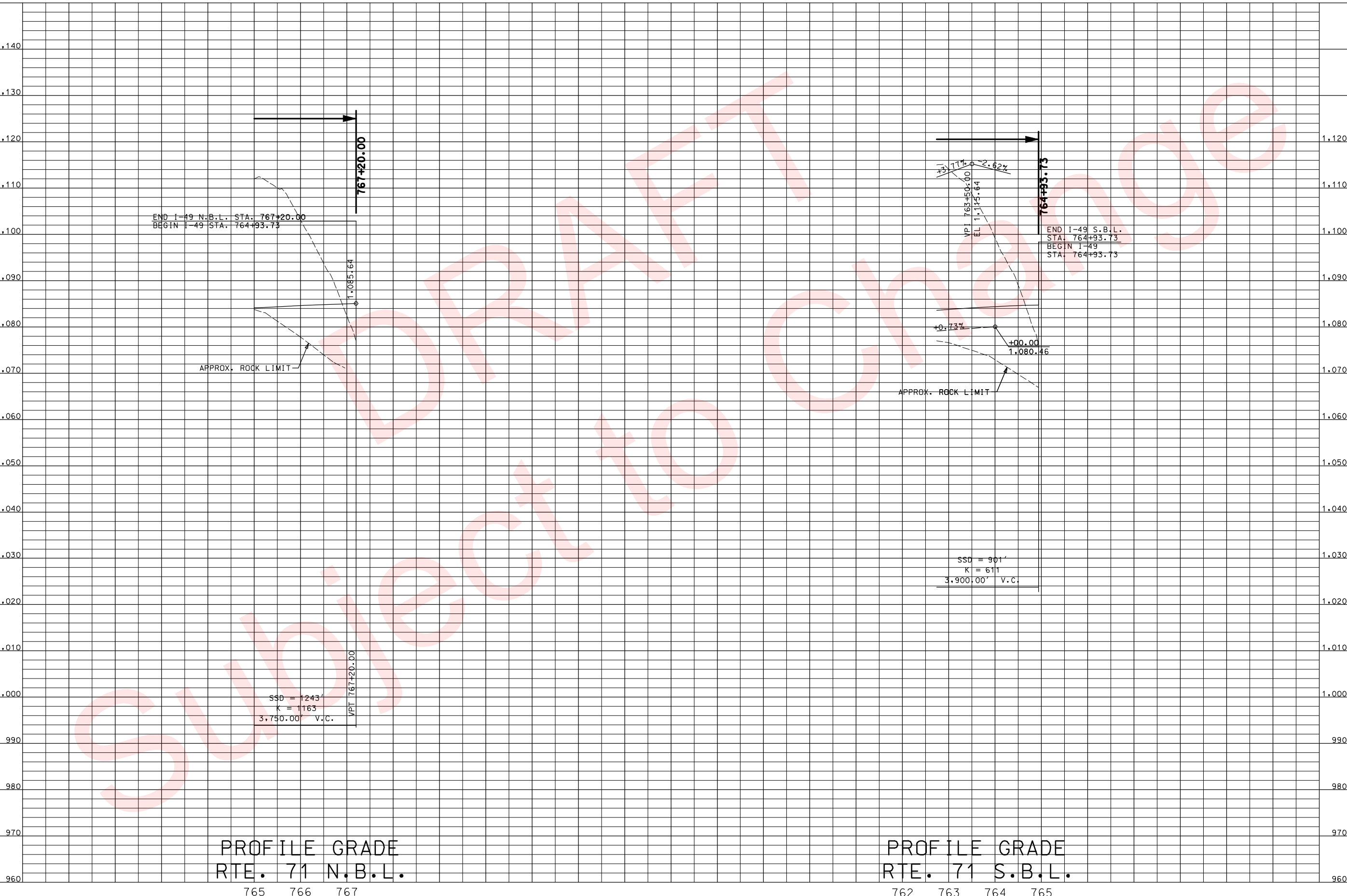
980

970

960

REV.

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



PROFILE GRADE
RTE. 71 N.B.L.

PROFILE GRADE
RTE. 71 S.B.L.

765 766 767

762 763 764 765

BALANCE H
 UNCLASSIFIED EXC. = 634,424 C.Y.
 COMPACTING EMBANKMENT = 613,171 C.Y.

(CONT. ON SHEET #14)

BENCHMARKS

BM-49-01-03 R.R. SPIKE IN EAST ROOT OF 1.3' HACKBERRY WITH
 BLAZED "A". TREE IS 3' WEST OF EDGE OF CO. RD. SW OF H-21,
 2.0 MILES SOUTH OF RTE. H & 125' SOUTH OF GAS LINE X CO. RD.
 ELEV. 979.80
 STA. 775+22

BM-49-01-04 R.R. SPIKE IN EAST SIDE OF P.P. ON WEST SIDE OF
 CO. RD. POLE IS 2' WEST OF RD. SPIKE IS 0.9' ABOVE GROUND. POLE IS
 NORTH OF DON GARDNER HOUSE, 2.3 MILES SOUTH OF RTE. H
 ELEV. 996.57
 STA. 785+50

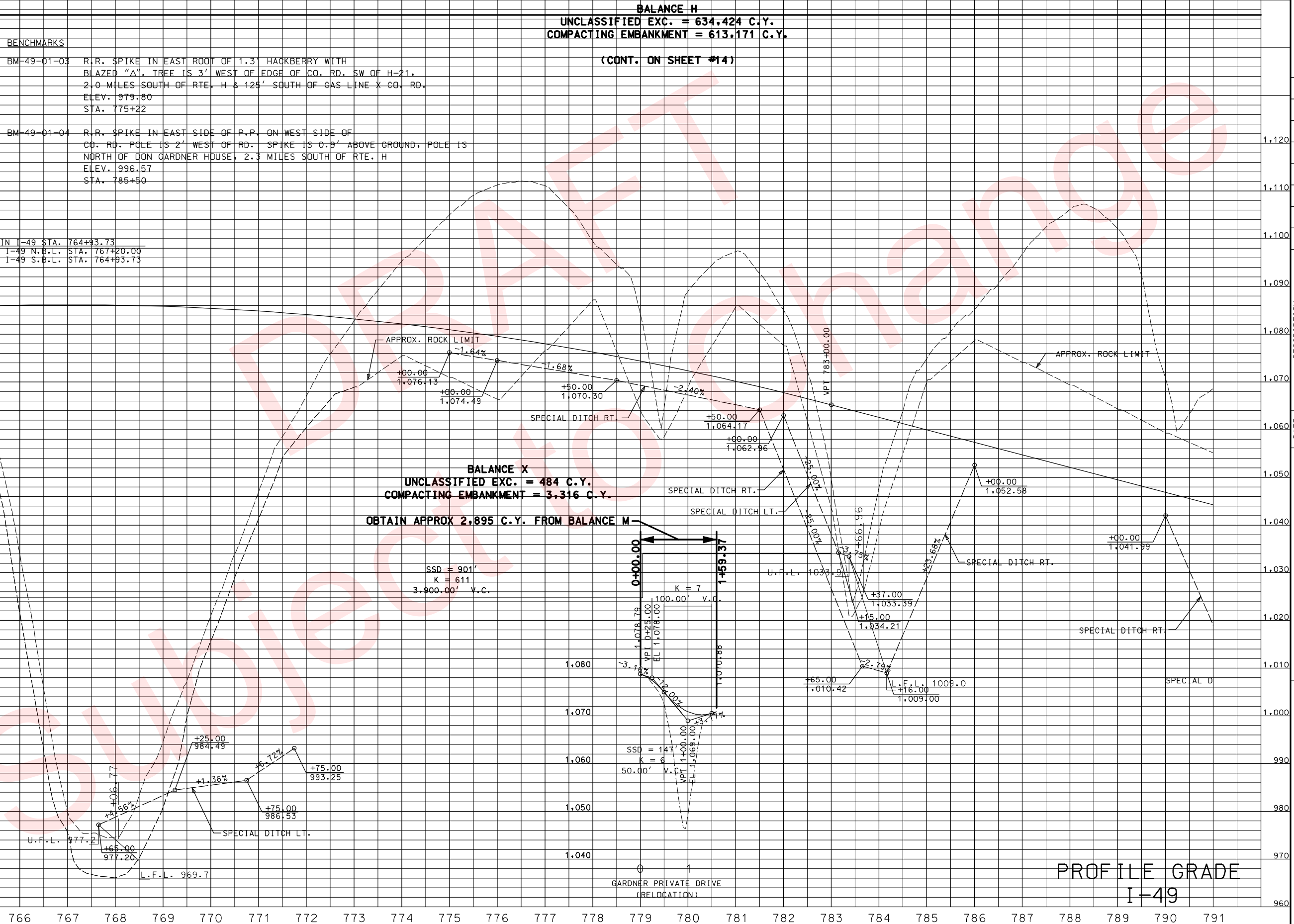
BEGIN I-49 STA. 764+93.73
 END I-49 N.B.L. STA. 767+20.00
 END I-49 S.B.L. STA. 764+93.73

BALANCE X
 UNCLASSIFIED EXC. = 484 C.Y.
 COMPACTING EMBANKMENT = 3,316 C.Y.

OBTAIN APPROX 2,895 C.Y. FROM BALANCE M

SSD = 901'
 K = 611
 3,900.00' V.C.

SSD = 147'
 K = 6
 50.00' V.C.



GARDNER PRIVATE DRIVE
 (RELOCATION)

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. 12
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV. 02/04/2010

STA. 797+33.00 I-49
4' x 2' PRECAST D.I. TYPE B
STA. 797+33.00 TO 798+53.65 I-49
15" x 119' GROUP B PIPE

27
RICHARD D. BAILEY &
JOHNIE M. BAILEY
10 Acres
(ACCESS RIGHTS ONLY)

STA. 799+74.00 I-49
4' x 2' PRECAST D.I. TYPE B

STA. 799+74.00 TO 798+53.65 I-49
24" x 118' GROUP B PIPE

STA. 802+00.00 I-49
4' x 2' PRECAST D.I. TYPE B

STA. 802+00.00 TO 799+74.00 I-49
24" x 224' GROUP B PIPE

STA. 806+00.00 I-49
4' x 2' PRECAST D.I. TYPE B

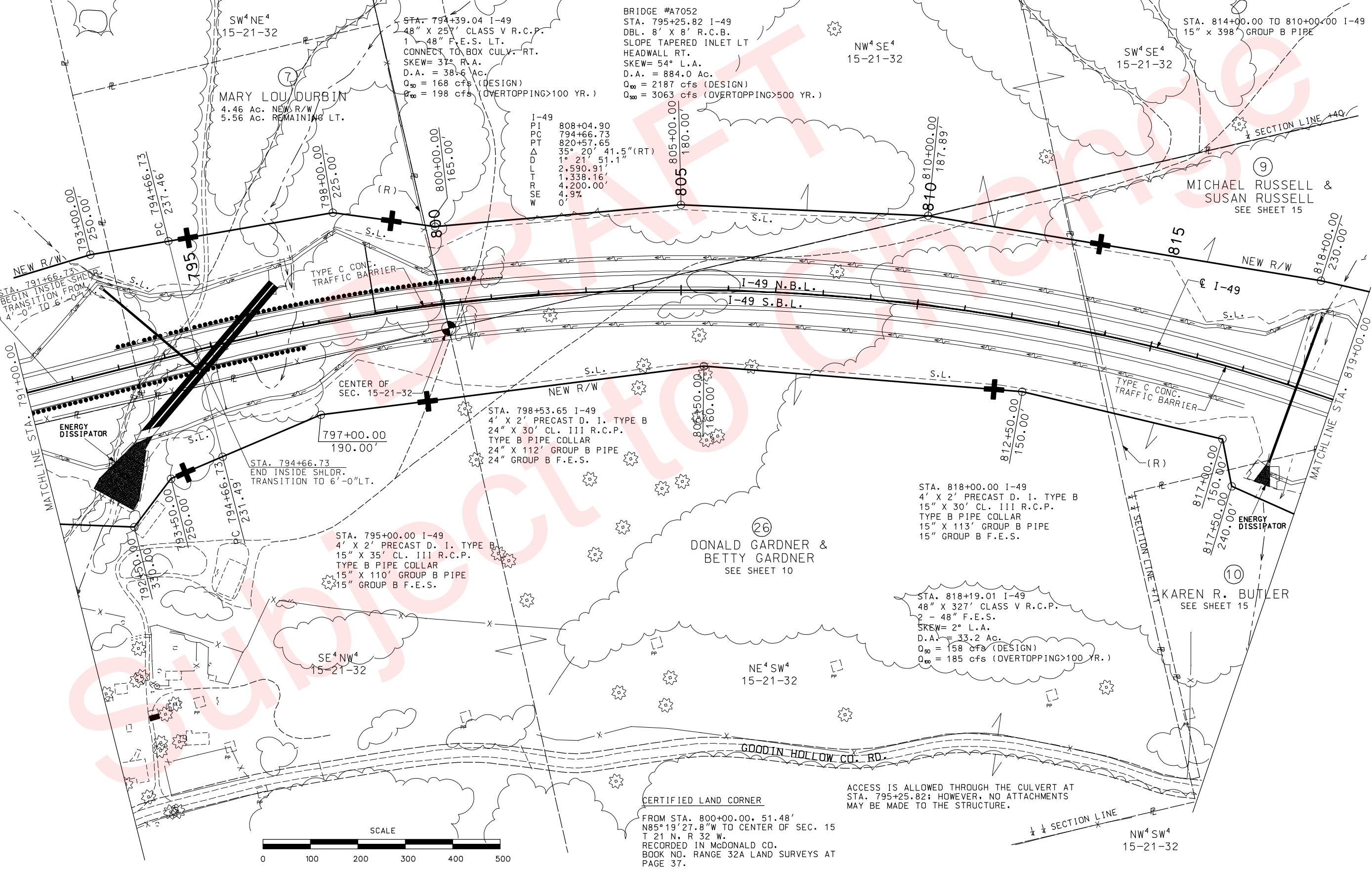
STA. 806+00.00 TO 802+00.00 I-49
18" x 398' GROUP B PIPE

STA. 810+00.00 I-49
4' x 2' PRECAST D.I. TYPE B

STA. 810+00.00 TO 806+00.00 I-49
15" x 398' GROUP B PIPE

STA. 814+00.00 I-49
4' x 2' PRECAST D.I. TYPE B

STA. 814+00.00 TO 810+00.00 I-49
15" x 398' GROUP B PIPE



BRIDGE #A7052
STA. 795+25.82 I-49
DBL. 8' X 8' R.C.B.
SLOPE TAPERED INLET LT
HEADWALL RT.
SKEW= 54° L.A.
D.A. = 884.0 Ac.
Q₅₀ = 2187 cfs (DESIGN)
Q₁₀₀ = 3063 cfs (OVERTOPPING>500 YR.)

I-49
PI 808+04.90
PC 794+66.73
PT 820+57.65
Δ 35° 20' 41.5" (RT)
D 1' 21' 51.1"
L 2,590.91'
T 1,338.16'
R 4,200.00'
SE 4.9%
W 0'

STA. 798+53.65 I-49
4' x 2' PRECAST D. I. TYPE B
24" x 30' CL. III R.C.P.
TYPE B PIPE COLLAR
24" x 112' GROUP B PIPE
24" GROUP B F.E.S.

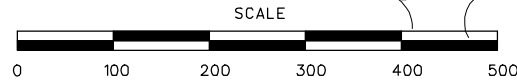
STA. 795+00.00 I-49
4' x 2' PRECAST D. I. TYPE B
15" x 35' CL. III R.C.P.
TYPE B PIPE COLLAR
15" x 110' GROUP B PIPE
15" GROUP B F.E.S.

STA. 818+00.00 I-49
4' x 2' PRECAST D. I. TYPE B
15" x 30' CL. III R.C.P.
TYPE B PIPE COLLAR
15" x 113' GROUP B PIPE
15" GROUP B F.E.S.

STA. 818+19.01 I-49
48" x 327' CLASS V R.C.P.
2 - 48" F.E.S.
SKEW= 2° L.A.
D.A. = 33.2 Ac.
Q₅₀ = 158 cfs (DESIGN)
Q₁₀₀ = 185 cfs (OVERTOPPING>100 YR.)

CERTIFIED LAND CORNER
FROM STA. 800+00.00, 51.48'
N85°19'27.8"W TO CENTER OF SEC. 15
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
STA. 795+25.82; HOWEVER, NO ATTACHMENTS
MAY BE MADE TO THE STRUCTURE.



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)

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. 14
COUNTY MCDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

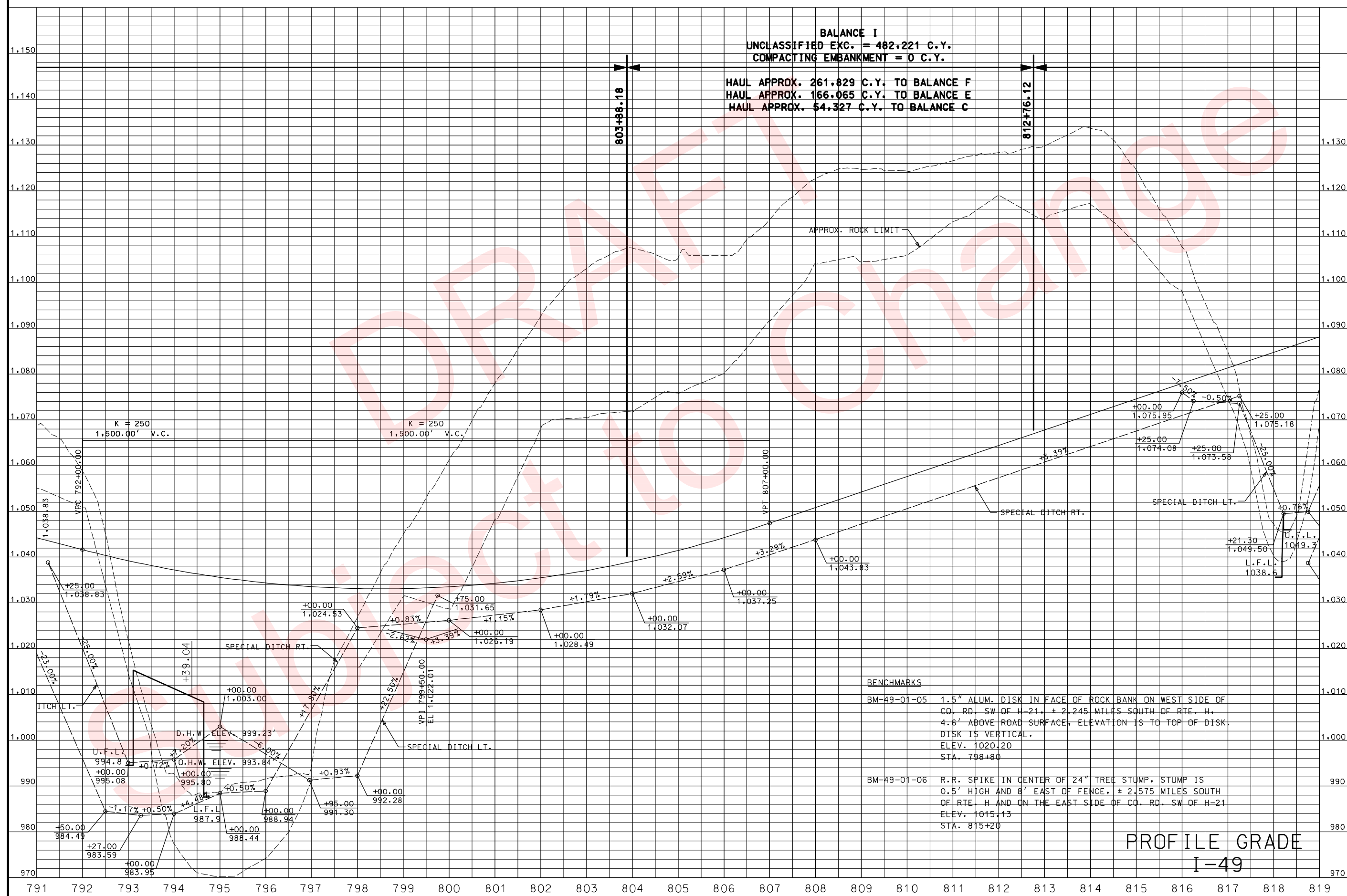
DATE

DESCRIPTION

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

BALANCE I
UNCLASSIFIED EXC. = 482,221 C.Y.
COMPACTING EMBANKMENT = 0 C.Y.

HAUL APPROX. 261,829 C.Y. TO BALANCE F
HAUL APPROX. 166,065 C.Y. TO BALANCE E
HAUL APPROX. 54,327 C.Y. TO BALANCE C

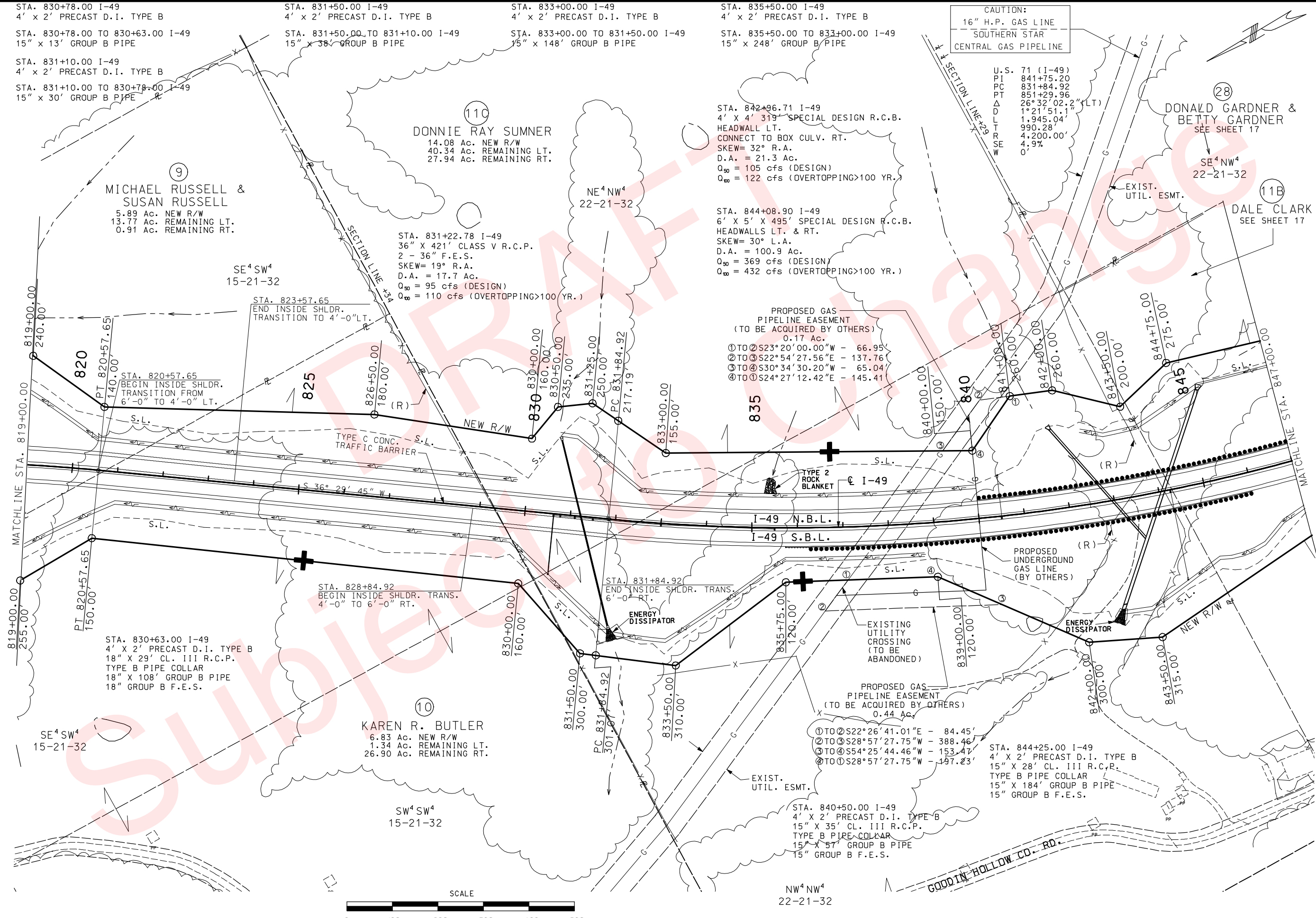


BENCHMARKS

- BM-49-01-05 1.5" ALUM. DISK IN FACE OF ROCK BANK ON WEST SIDE OF CO. RD. SW OF H=21, ± 2.245 MILES SOUTH OF RTE. H, 4.6' ABOVE ROAD SURFACE, ELEVATION IS TO TOP OF DISK. DISK IS VERTICAL. ELEV. 1020.20 STA. 798+80
- BM-49-01-06 R.R. SPIKE IN CENTER OF 24" TREE STUMP, STUMP IS 0.5' HIGH AND 8' EAST OF FENCE, ± 2.575 MILES SOUTH OF RTE. H AND ON THE EAST SIDE OF CO. RD. SW OF H=21 ELEV. 1015.13 STA. 815+20

PROFILE GRADE
I-49

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



CAUTION:
16" H.P. GAS LINE
SOUTHERN STAR
CENTRAL GAS PIPELINE

U.S. 71 (I-49)
PI 841+75.20
PC 831+84.92
PT 851+29.96
26°32'02.2" (LT)
1°21'51.1"
1,945.04'
990.28'
4,200.00'
4.9%
0'

STA. 842+96.71 I-49
4' X 4' 319' SPECIAL DESIGN R.C.B.
HEADWALL LT.
CONNECT TO BOX CULV. RT.
SKEW= 32° R.A.
D.A. = 21.3 Ac.
Q₅₀ = 105 cfs (DESIGN)
Q₁₀₀ = 122 cfs (OVERTOPPING>100 YR.)

STA. 844+08.90 I-49
6' X 5' X 495' SPECIAL DESIGN R.C.B.
HEADWALLS LT. & RT.
SKEW= 30° L.A.
D.A. = 100.9 Ac.
Q₅₀ = 369 cfs (DESIGN)
Q₁₀₀ = 432 cfs (OVERTOPPING>100 YR.)

PROPOSED GAS PIPELINE EASEMENT (TO BE ACQUIRED BY OTHERS)
0.17 Ac.
① TO ② S23°20'00.00"W - 66.95'
② TO ③ S22°54'27.56"E - 137.76'
③ TO ④ S30°34'30.20"W - 65.04'
④ TO ① S24°27'12.42"E - 145.41'

PROPOSED GAS PIPELINE EASEMENT (TO BE ACQUIRED BY OTHERS)
0.44 Ac.
① TO ② S22°26'41.01"E - 84.45'
② TO ③ S28°57'27.75"W - 388.46'
③ TO ④ S54°25'44.46"W - 153.47'
④ TO ① S28°57'27.75"W - 197.23'

STA. 844+25.00 I-49
4' X 2' PRECAST D.I. TYPE B
15" X 28' CL. III R.C.P.
TYPE B PIPE COLLAR
15" X 184' GROUP B PIPE
15" GROUP B F.E.S.

STA. 840+50.00 I-49
4' X 2' PRECAST D.I. TYPE B
15" X 35' CL. III R.C.P.
TYPE B PIPE COLLAR
15" X 57' GROUP B PIPE
15" GROUP B F.E.S.

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.	
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.

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


BALANCE J
UNCLASSIFIED EXC. = 479,653 C.Y.
COMPACTING EMBANKMENT = 479,653 C.Y.
(BEG. ON SHEET #14)
(CONT. ON SHEET #18)

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

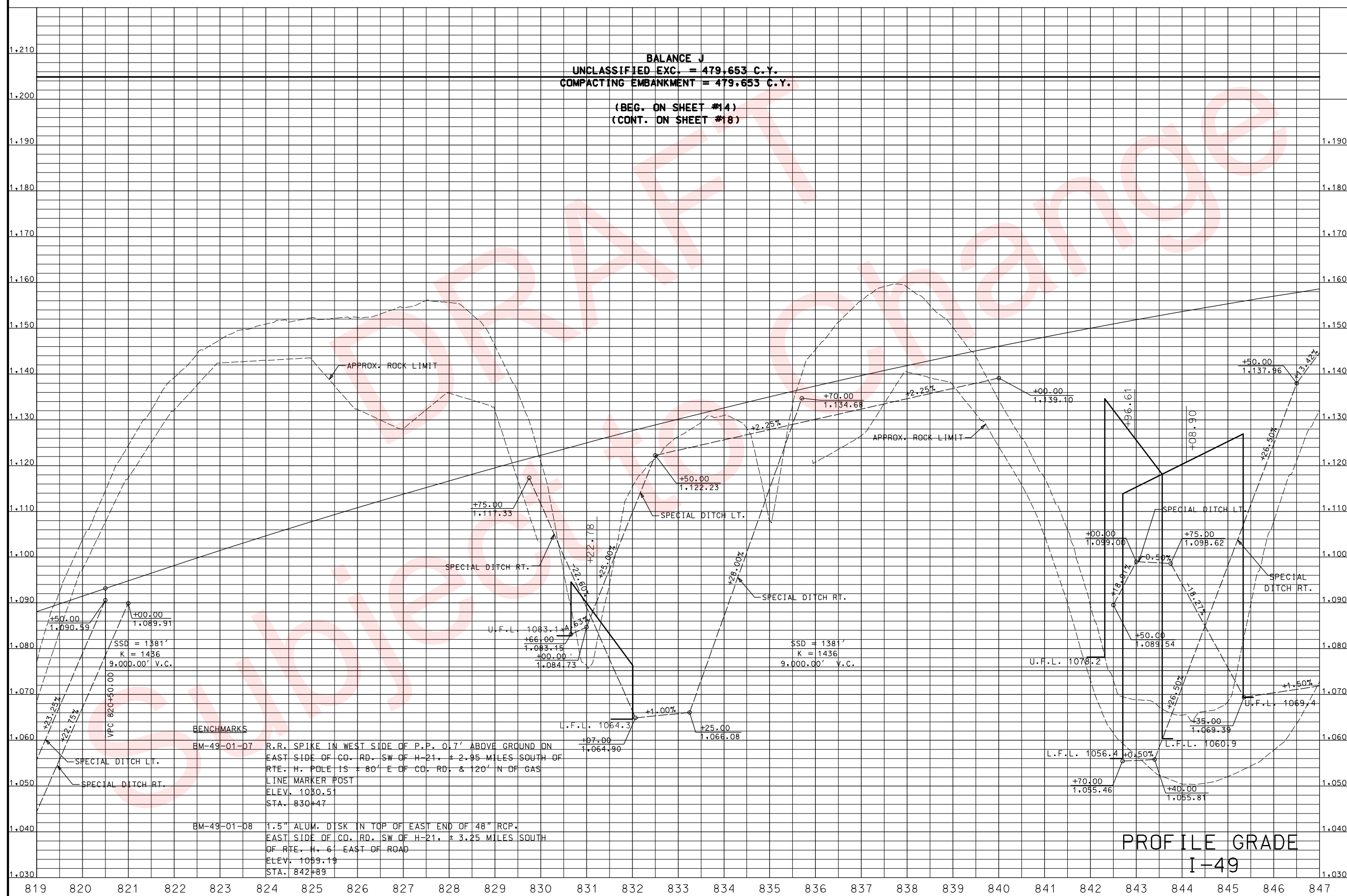
DESCRIPTION	DATE

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



PROFILE GRADE
I-49

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

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

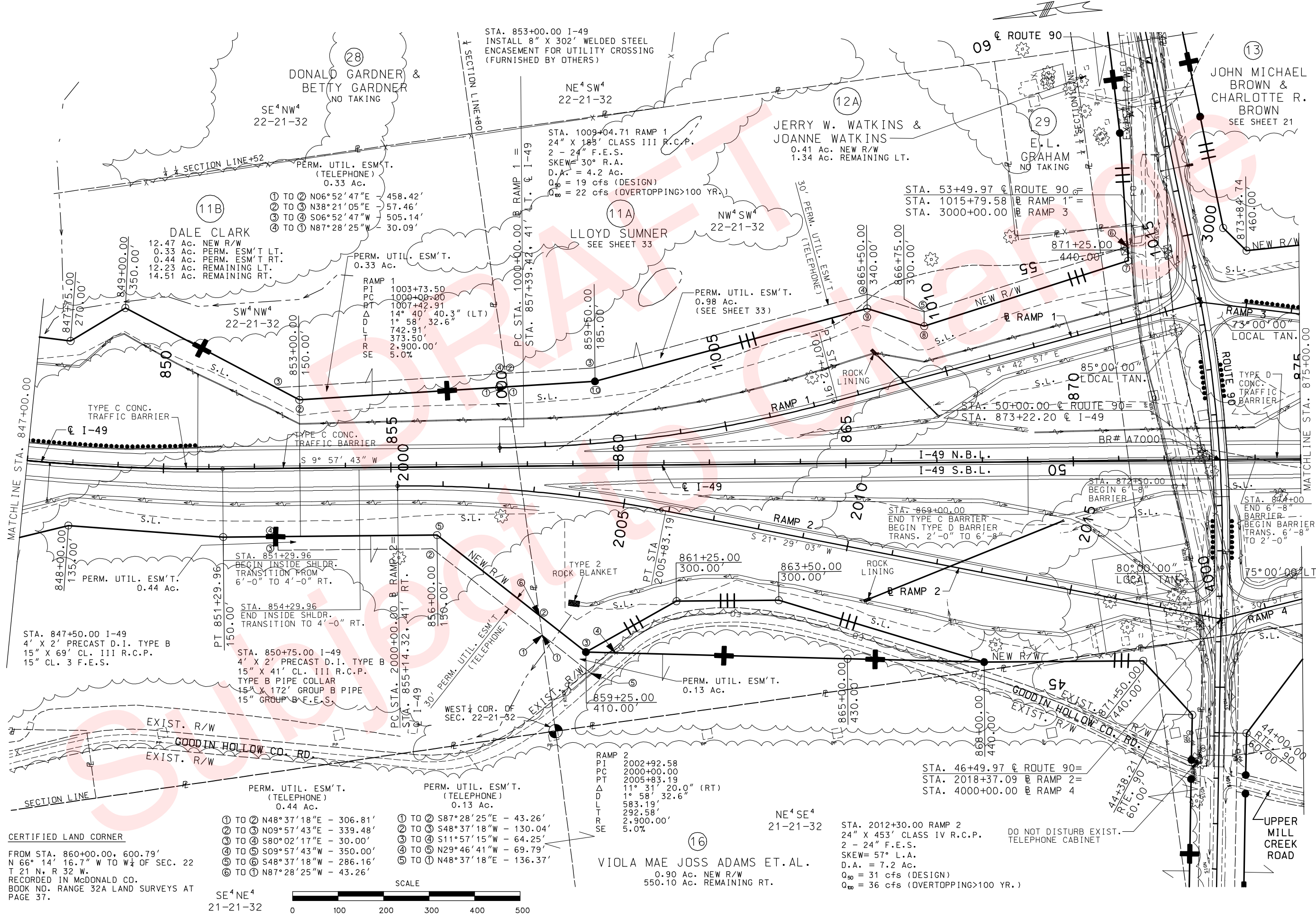
DATE	DESCRIPTION

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.

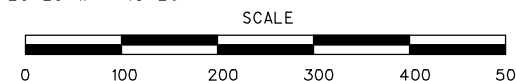


CERTIFIED LAND CORNER

FROM STA. 860+00.00, 600.79'
N 66° 14' 16.7" W TO W 1/4 OF SEC. 22
T 21 N, R 32 W.
RECORDED IN McDONALD CO.
BOOK NO. RANGE 32A LAND SURVEYS AT
PAGE 37.

- SE⁴NW⁴ 22-21-32
- ① TO ② N06°52'47"E 458.42'
 - ② TO ③ N38°21'05"E 57.46'
 - ③ TO ④ S06°52'47"W 505.14'
 - ④ TO ① N87°28'25"W 30.09'
- SW⁴NW⁴ 22-21-32
- ① TO ② N48°37'18"E - 306.81'
 - ② TO ③ N09°57'43"E - 339.48'
 - ③ TO ④ S80°02'17"E - 30.00'
 - ④ TO ⑤ S09°57'43"W - 350.00'
 - ⑤ TO ⑥ S48°37'18"W - 286.16'
 - ⑥ TO ① N87°28'25"W - 43.26'
- NE⁴SW⁴ 22-21-32
- ① TO ② S87°28'25"E - 43.26'
 - ② TO ③ S48°37'18"W - 130.04'
 - ③ TO ④ S11°57'15"W - 64.25'
 - ④ TO ⑤ N29°46'41"W - 69.79'
 - ⑤ TO ① N48°37'18"E - 136.37'
- NE⁴SE⁴ 21-21-32
- ① TO ② N48°37'18"E - 306.81'
 - ② TO ③ N09°57'43"E - 339.48'
 - ③ TO ④ S80°02'17"E - 30.00'
 - ④ TO ⑤ S09°57'43"W - 350.00'
 - ⑤ TO ⑥ S48°37'18"W - 286.16'
 - ⑥ TO ① N87°28'25"W - 43.26'

SE⁴NE⁴ 21-21-32



RAMP 2

P I	2002+92.58
P C	2000+00.00
P T	2005+83.19
Δ	11° 31' 20.0" (RT)
D	1° 58' 32.6"
L	583.19'
T	292.58'
R	2,900.00'
S E	5.0%

VIOLA MAE JOSS ADAMS ET AL.

0.90 AC. NEW R/W
550.10 AC. REMAINING RT.

RAMP 4

STA. 2012+30.00 RAMP 2
24" X 453' CLASS IV R.C.P.
2 - 24" F.E.S.
SKEW = 57° L.A.
D.A. = 7.2 AC.
Q₅₀ = 31 cfs (DESIGN)
Q₁₀₀ = 36 cfs (OVERTOPPING > 100 YR.)

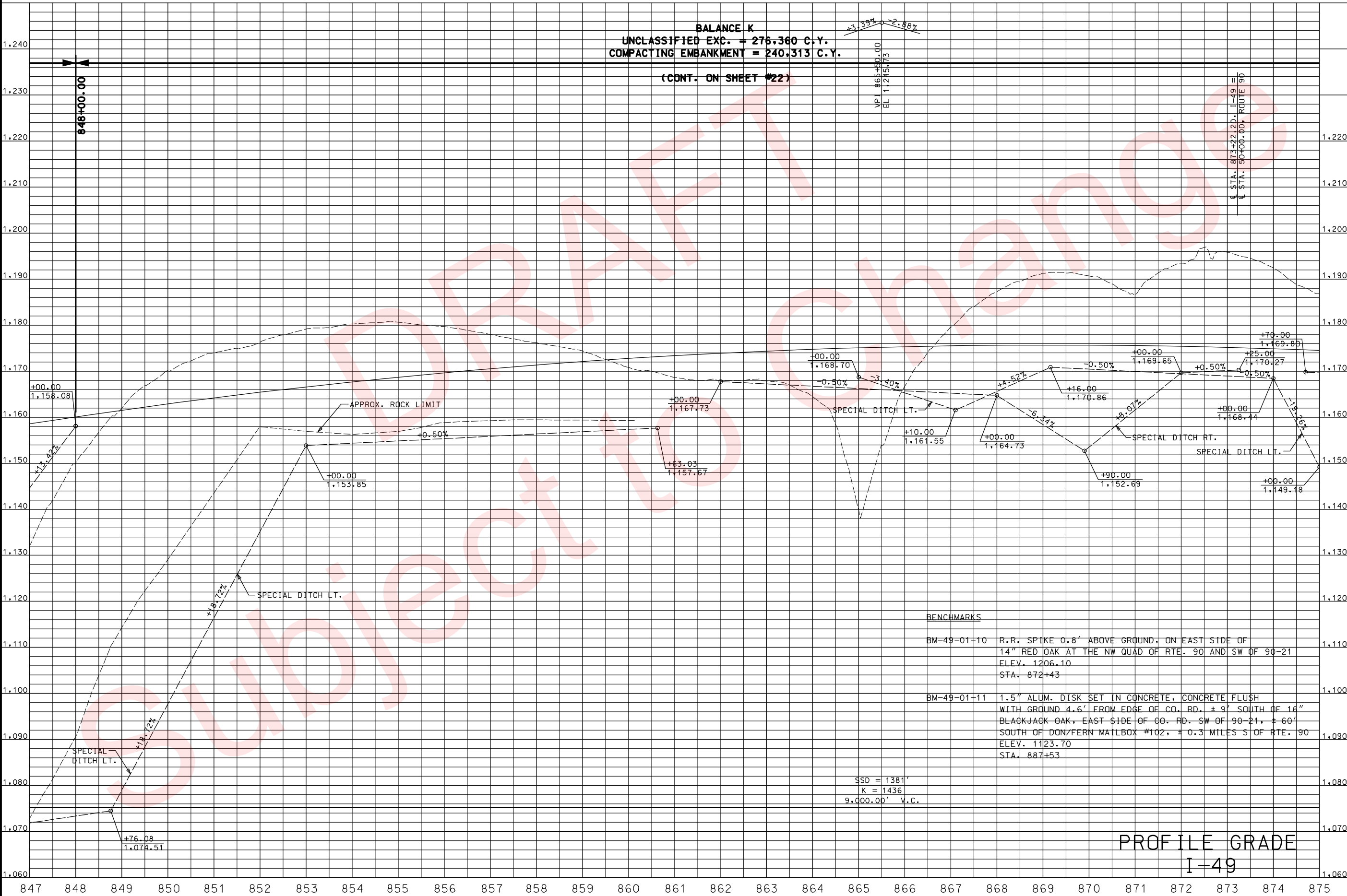
DO NOT DISTURB EXIST. TELEPHONE CABINET

BALANCE K
UNCLASSIFIED EXC. = 276,360 C.Y.
COMPACTING EMBANKMENT = 240,313 C.Y.

(CONT. ON SHEET #22)

+3.39%
-2.88%
NPI 865+50.00
EL 1,245.73

Q STA. 873+22.20, I-49 =
Q STA. 50+00.00, ROUTE 90



BENCHMARKS

- BM-49-01-10 R.R. SPIKE 0.8' ABOVE GROUND, ON EAST SIDE OF 14" RED OAK AT THE NW QUAD OF RTE. 90 AND SW OF 90-21 ELEV. 1206.10 STA. 872+43
- BM-49-01-11 1.5" ALUM. DISK SET IN CONCRETE, CONCRETE FLUSH WITH GROUND 4.6' FROM EDGE OF CO. RD. ± 9' SOUTH OF 16" BLACKJACK OAK, EAST SIDE OF GO. RD. SW OF 90-21, ± 60' SOUTH OF DON/FERN MAILBOX #102, ± 0.3 MILES S OF RTE. 90 ELEV. 1123.70 STA. 887+53

SSD = 1381'
K = 1436
9,000.00' V.C.

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.

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.

"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. JTP0601
CONTRACT ID.

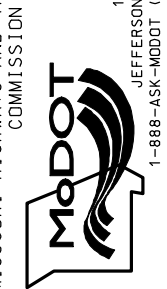
PROJECT NO.

BRIDGE NO.

DESCRIPTION

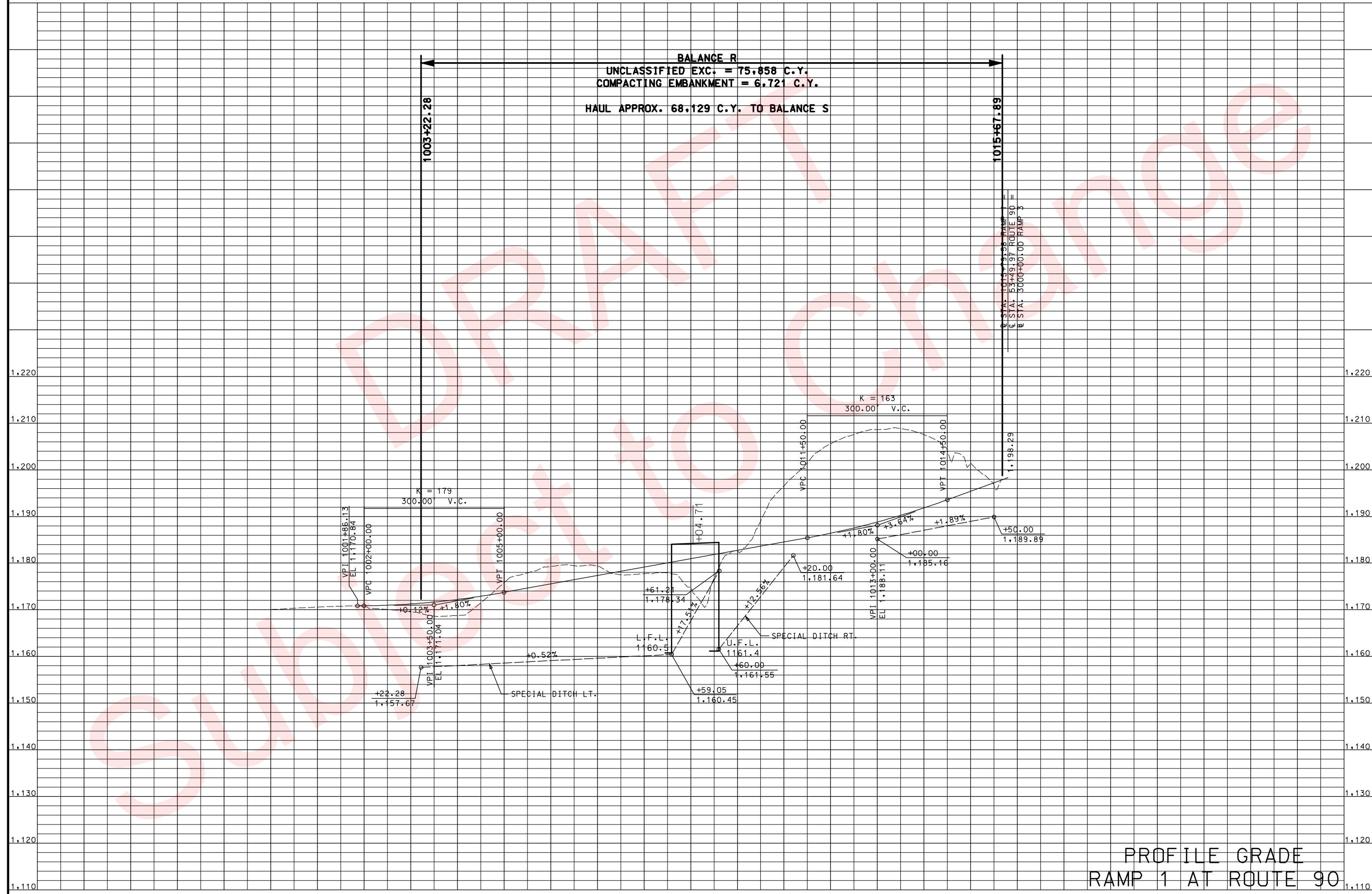
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

REV.



BALANCE R
UNCLASSIFIED EXC. = 75,858 C.Y.
COMPACTING EMBANKMENT = 6,721 C.Y.
HAUL APPROX. 68,129 C.Y. TO BALANCE S

PROFILE GRADE
RAMP 1 AT ROUTE 90

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

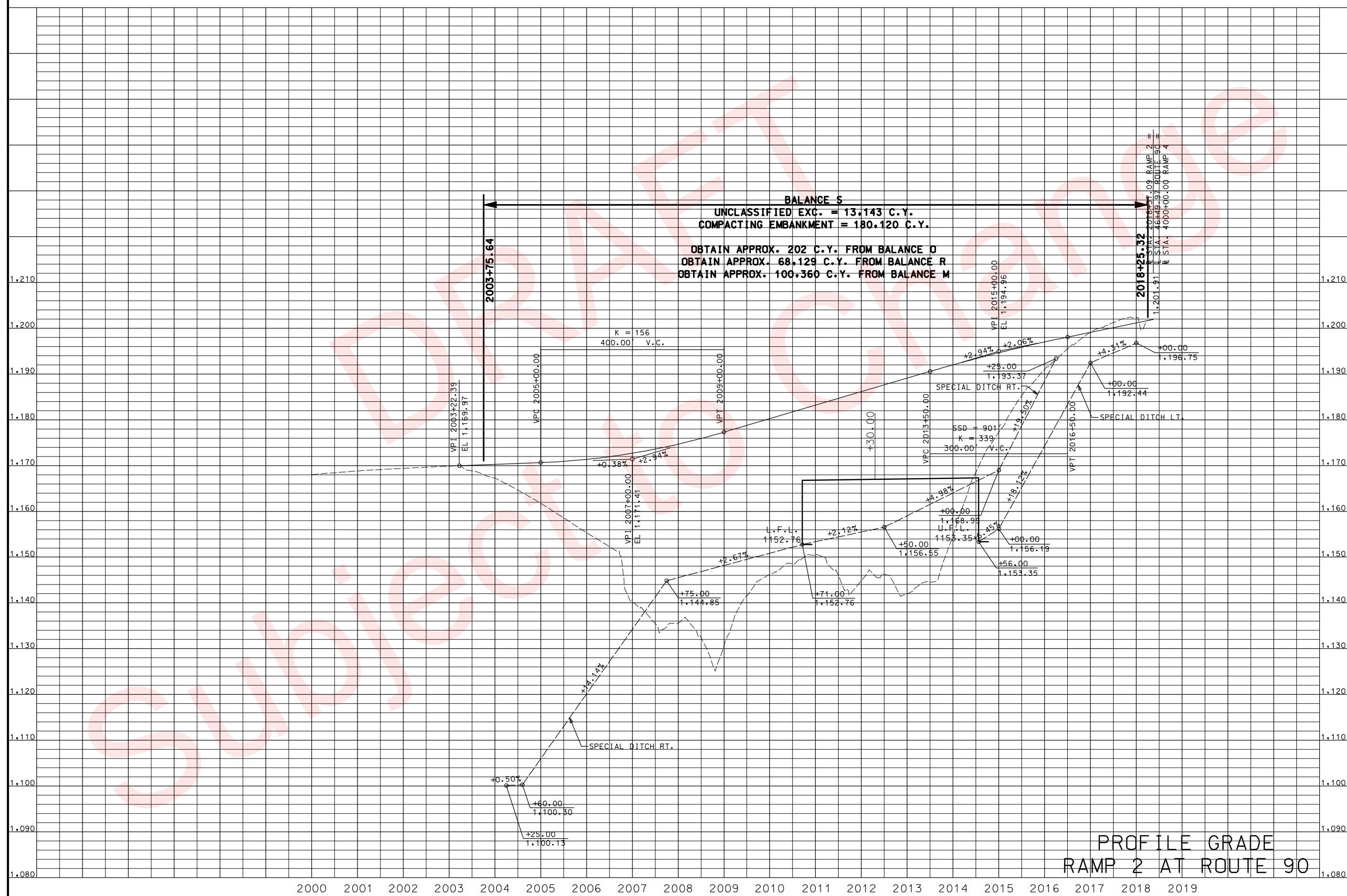
DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 20

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)



PROFILE GRADE
RAMP 2 AT ROUTE 90

STA. 876+05.00 TO 877+45.00 I-49
15" x 140' SLOTTED DRAIN

STA. 877+45.00 TO 877+75.00 I-49
15" x 29' GROUP B PIPE

STA. 879+25.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 879+25.00 TO 880+50.00 I-49
15" x 123' GROUP B PIPE

STA. 3003+51.72 RAMP 3
30" X 331' CLASS V R.C.P.
2 - 30" F.E.S.
SKEW= 30° L.A.
D.A. = 9.5 Ac.
Q₅₀ = 38 cfs (DESIGN)
Q₁₀₀ = 44 cfs (OVERTOPPING>100 YR.)

STA. 880+50.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 880+50.00 TO 882+00.00 I-49
15" x 148' GROUP B PIPE

STA. 882+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 882+00.00 TO 883+00.00 I-49
15" x 98' GROUP B PIPE

STA. 883+00.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 883+00.00 TO 884+00.00 I-49
15" x 98' GROUP B PIPE

STA. 885+75.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 885+75.00 TO 887+25.00 I-49
15" x 149' GROUP B PIPE

STA. 887+25.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 887+25.00 TO 889+25.00 I-49
15" x 199' GROUP B PIPE

STA. 889+25.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 889+25.00 TO 891+25.00 I-49
15" x 199' GROUP B PIPE

STA. 891+25.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 891+25.00 TO 893+00.00 I-49
15" x 174' GROUP B PIPE

STA. 894+50.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 894+50.00 TO 896+00.00 I-49
15" x 148' GROUP B PIPE

STA. 897+50.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 897+50.00 TO 899+00.00 I-49
15" x 148' GROUP B PIPE

STA. 900+50.00 I-49
2' x 2' PRECAST D.I. TYPE B

STA. 900+50.00 TO 902+00.00 I-49
15" x 148' GROUP B PIPE

STA. 896+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 44' CL III R.C.P.
TYPE B PIPE COLLAR
15" x 117' GROUP B PIPE
15" GROUP B F.E.S.

STA. 899+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 33' CL III R.C.P.
TYPE B PIPE COLLAR
15" x 166' GROUP B PIPE
15" GROUP B F.E.S.

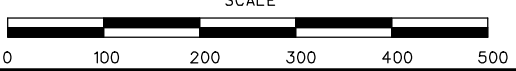
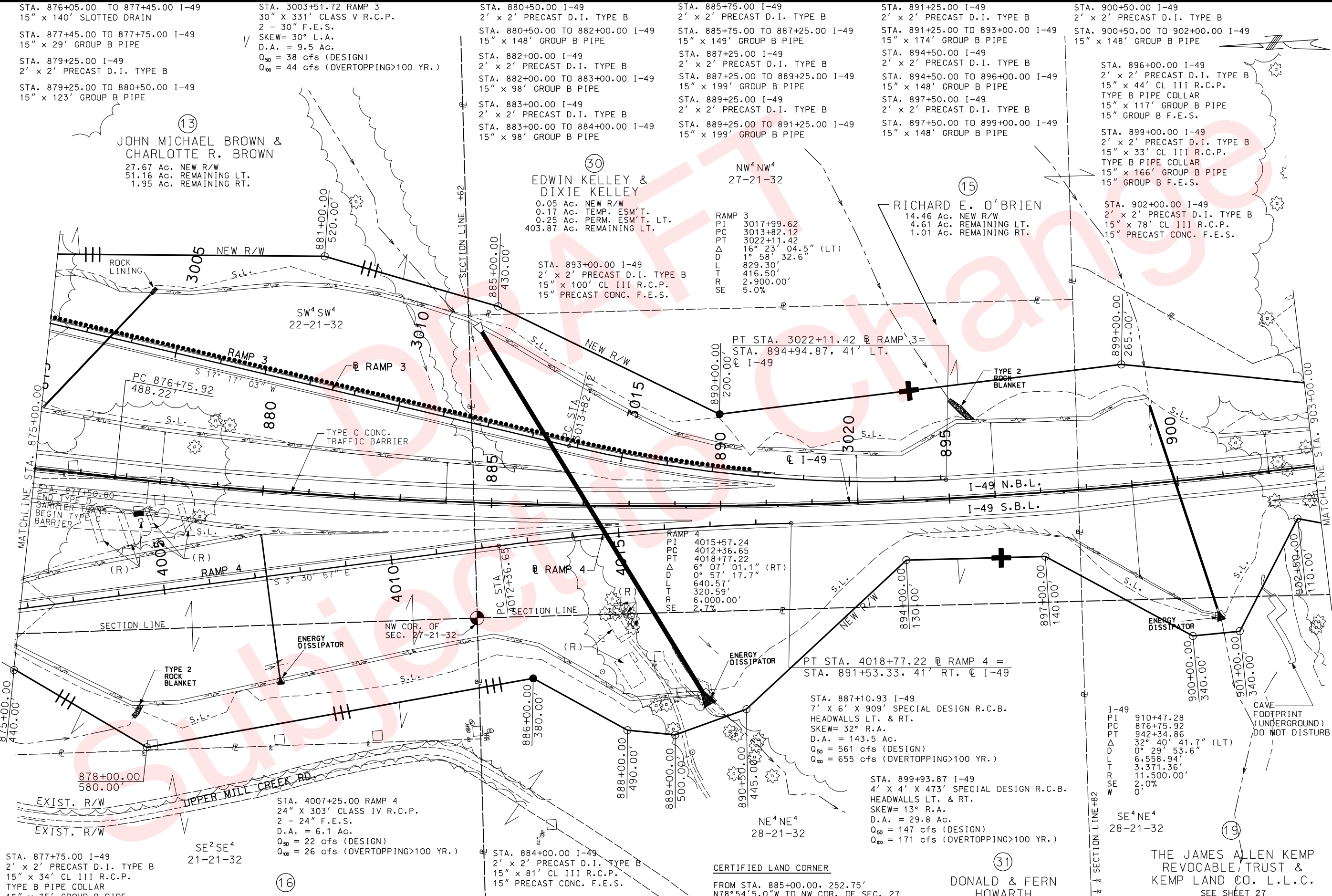
STA. 902+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 78' CL III R.C.P.
15" PRECAST CONC. F.E.S.

13
JOHN MICHAEL BROWN &
CHARLOTTE R. BROWN
27.67 Ac. NEW R/W
51.16 Ac. REMAINING LT.
1.95 Ac. REMAINING RT.

30
EDWIN KELLEY &
DIXIE KELLEY
0.05 Ac. NEW R/W
0.17 Ac. TEMP. ESM'T.
0.25 Ac. PERM. ESM'T. LT.
403.87 Ac. REMAINING LT.

15
RICHARD E. O'BRIEN
14.46 Ac. NEW R/W
4.61 Ac. REMAINING LT.
1.01 Ac. REMAINING RT.

19
THE JAMES ALLEN KEMP
REVOCABLE TRUST &
KEMP LAND CO. L.L.C.
SEE SHEET 27



STA. 877+75.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 34' CL III R.C.P.
TYPE B PIPE COLLAR
15" x 75' GROUP B PIPE
15" GROUP B F.E.S.

SE²SE⁴
21-21-32

16
VIOLA MAE JOSS ADAMS ET. AL.
SEE SHEET 17

STA. 884+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 81' CL III R.C.P.
15" PRECAST CONC. F.E.S.

CERTIFIED LAND CORNER
FROM STA. 885+00.00, 252.75'
N78°54'5.0"W TO NW COR. OF SEC. 27
T 21 N, R 32 W.
RECORDED IN McDONALD CO.
BOOK NO. RANGE 32A LAND SURVEYS AT
PAGE 37.

31
DONALD & FERN
HOWARTH
3.36 Ac. NEW R/W
16.64 Ac. REMAINING RT.

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" (LT)
L 6,558.94'
T 3,371.36'
R 11,500.00'
SE 2.0%

SE⁴NE⁴
28-21-32

"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)

MoDOT

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

REV.

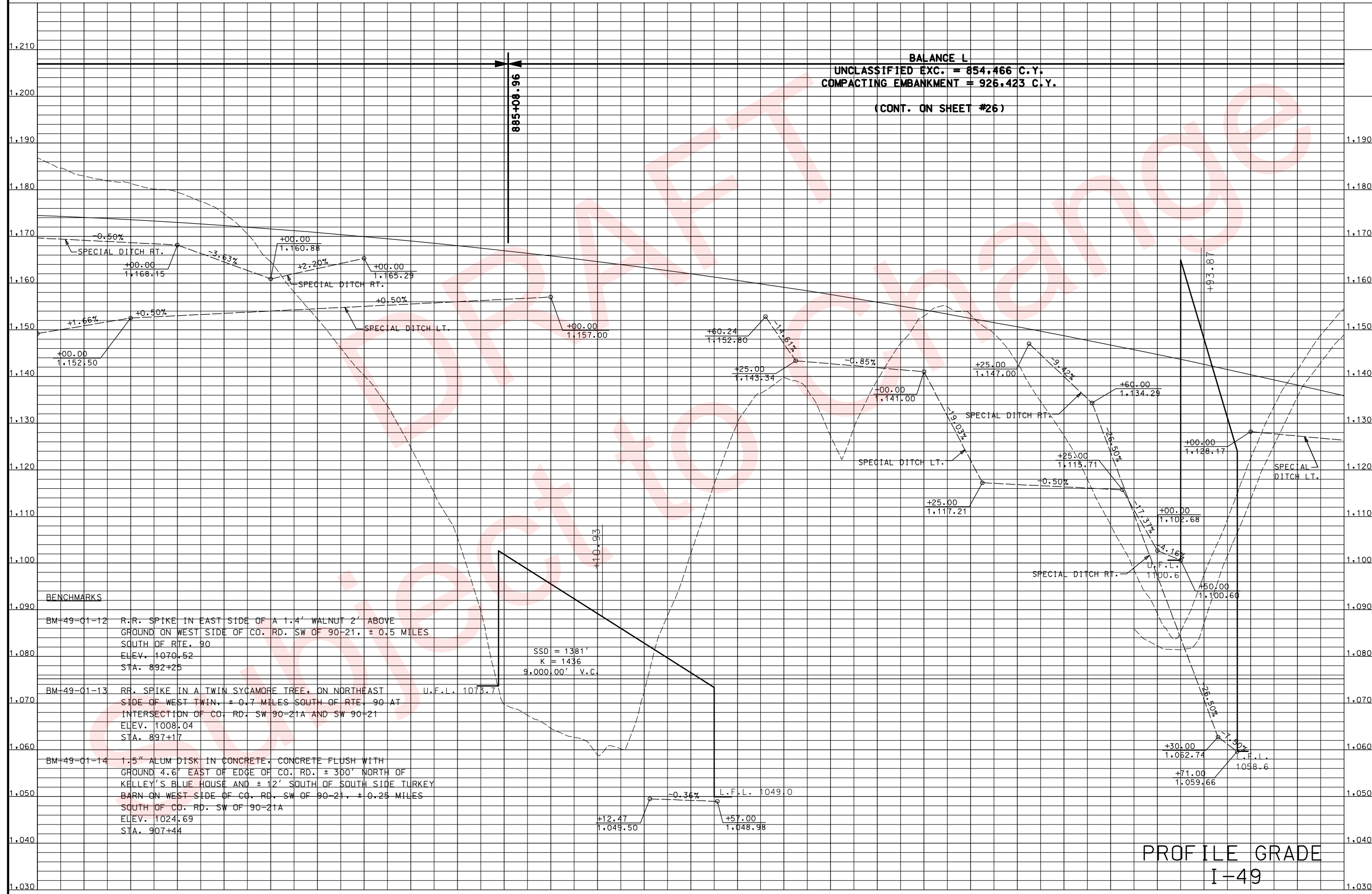
DESCRIPTION	DATE

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



BALANCE L
UNCLASSIFIED EXC. = 854,466 C.Y.
COMPACTING EMBANKMENT = 926,423 C.Y.
(CONT. ON SHEET #26)



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. 23

COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

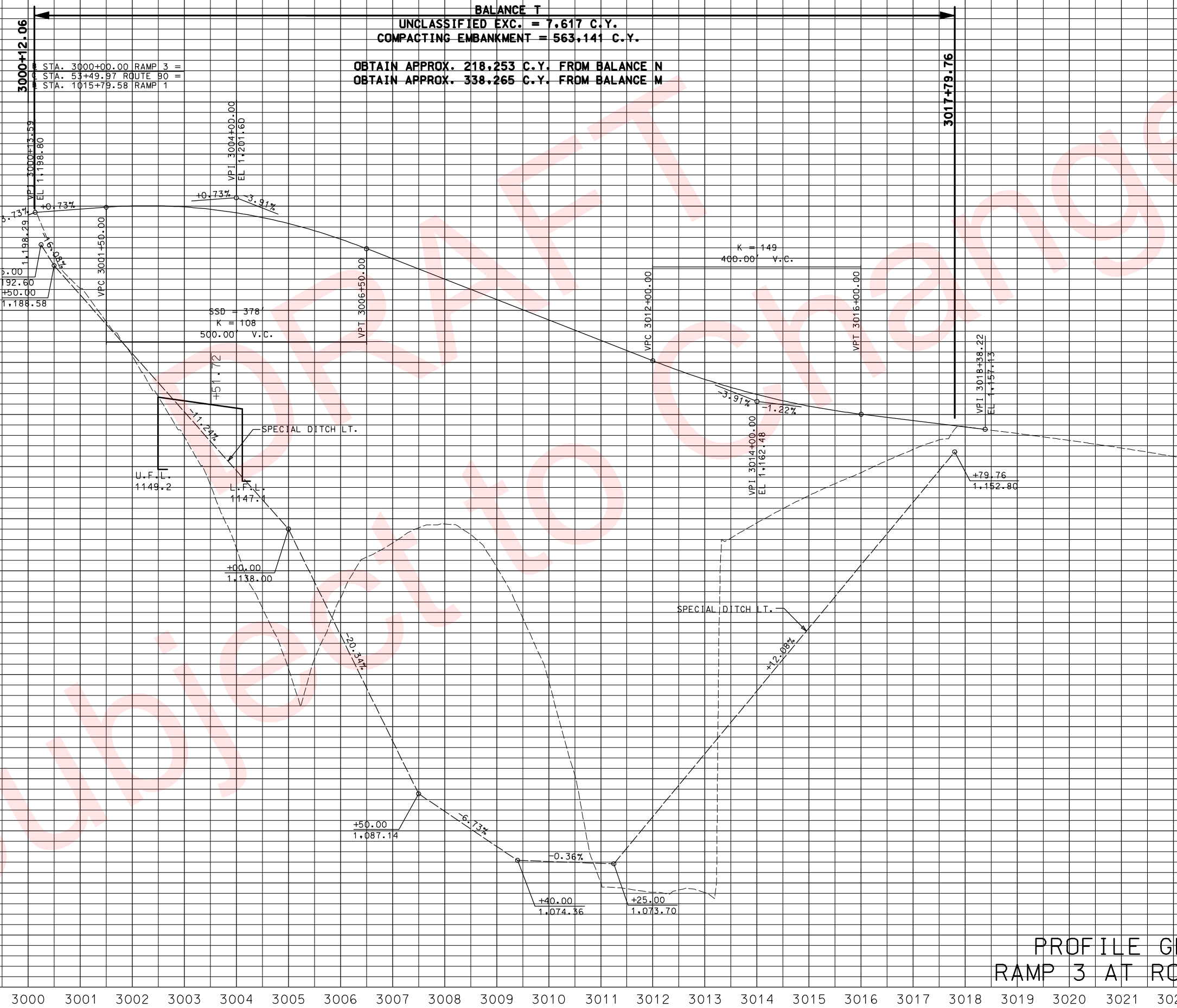
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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

BALANCE T
UNCLASSIFIED EXC. = 7,617 C.Y.
COMPACTING EMBANKMENT = 563,141 C.Y.
OBTAIN APPROX. 218,253 C.Y. FROM BALANCE N
OBTAIN APPROX. 338,265 C.Y. FROM BALANCE M



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. 24

COUNTY McDONALD JOB NO. J7P0601 CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE

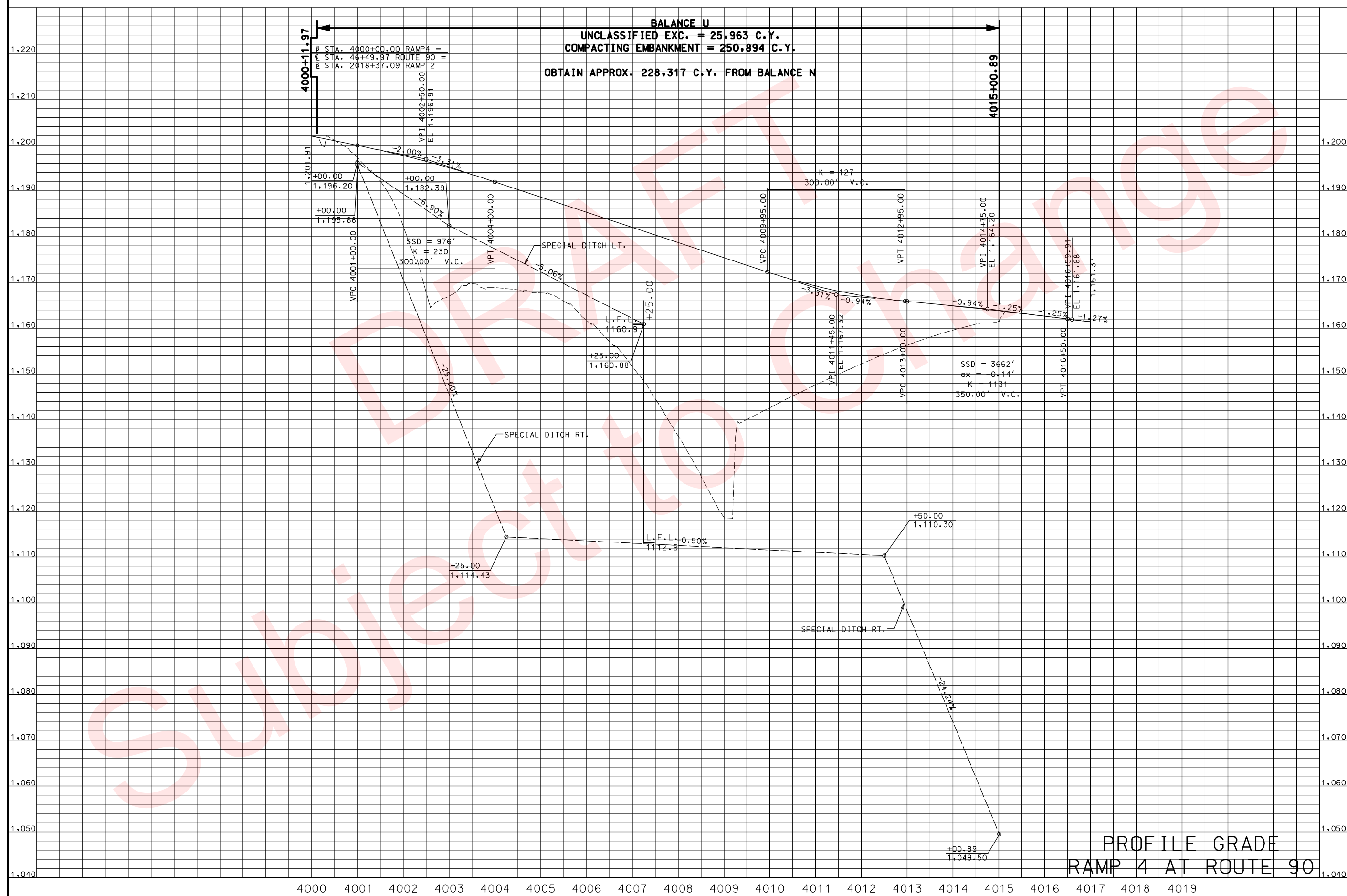
DESCRIPTION

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.



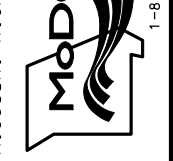
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

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

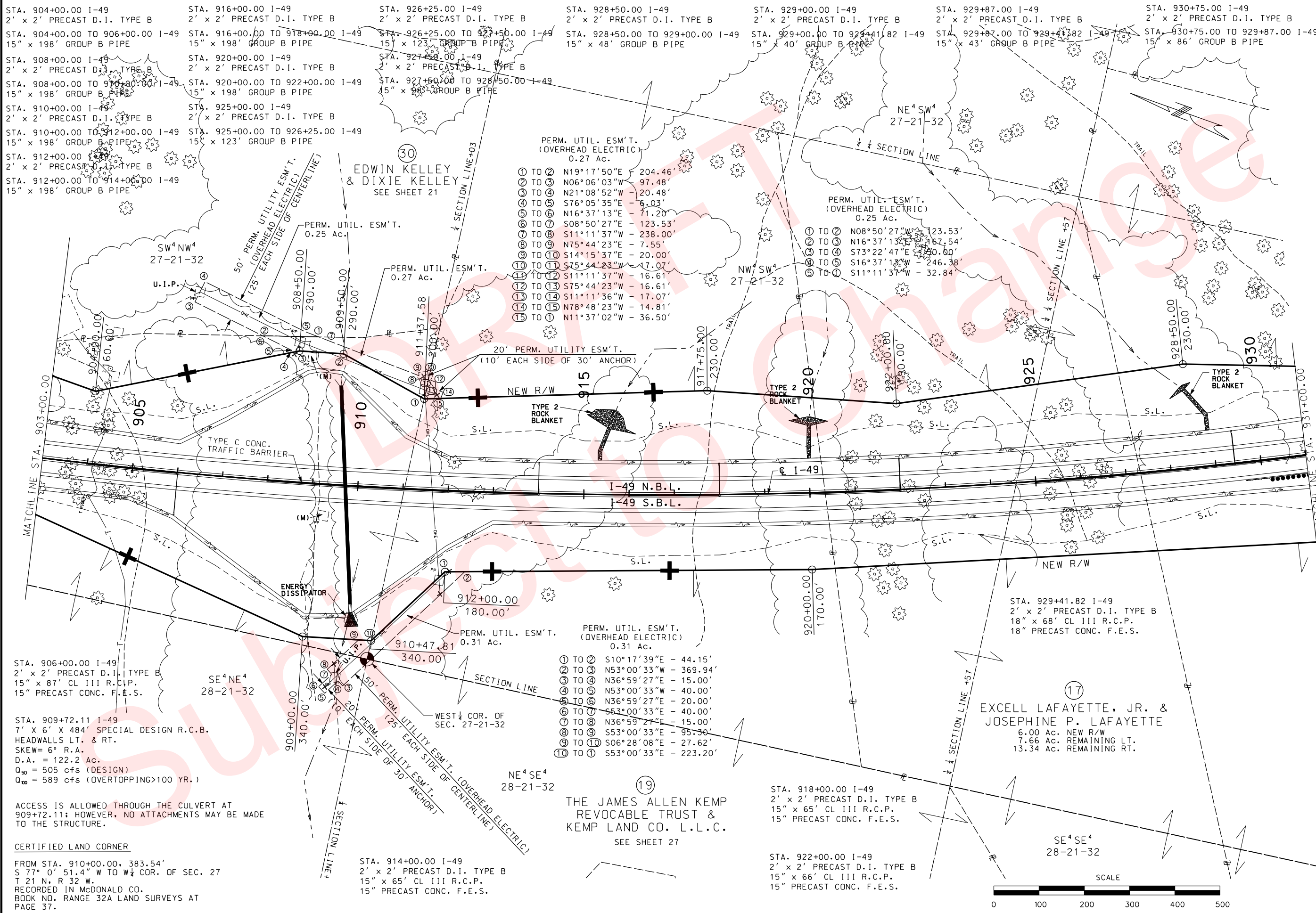
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



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+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. 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 ⑯ 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 - 230.00'
 - ④ TO ⑤ S16°37'13"W - 246.38'
 - ⑤ TO ⑥ 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 ⑪ S53°00'33"E - 223.20'

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.
Q₅₀= 505 cfs (DESIGN)
Q₁₀₀= 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 W ¼ 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.

THE JAMES ALLEN KEMP REVOCABLE TRUST & KEMP LAND CO. L.L.C.
SEE SHEET 27

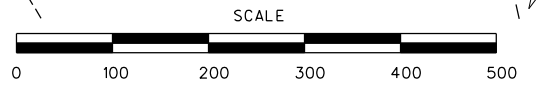
STA. 918+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 65' CL III R.C.P.
15" PRECAST CONC. F.E.S.

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.

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.

EXCELL LAFAYETTE, JR. & JOSEPHINE P. LAFAYETTE
6.00 Ac. NEW R/W
7.66 Ac. REMAINING LT.
13.34 Ac. REMAINING RT.

SE⁴SE⁴ 28-21-32



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. 26

COUNTY MCDONALD
JOB NO. J7P0601
CONTRACT ID.

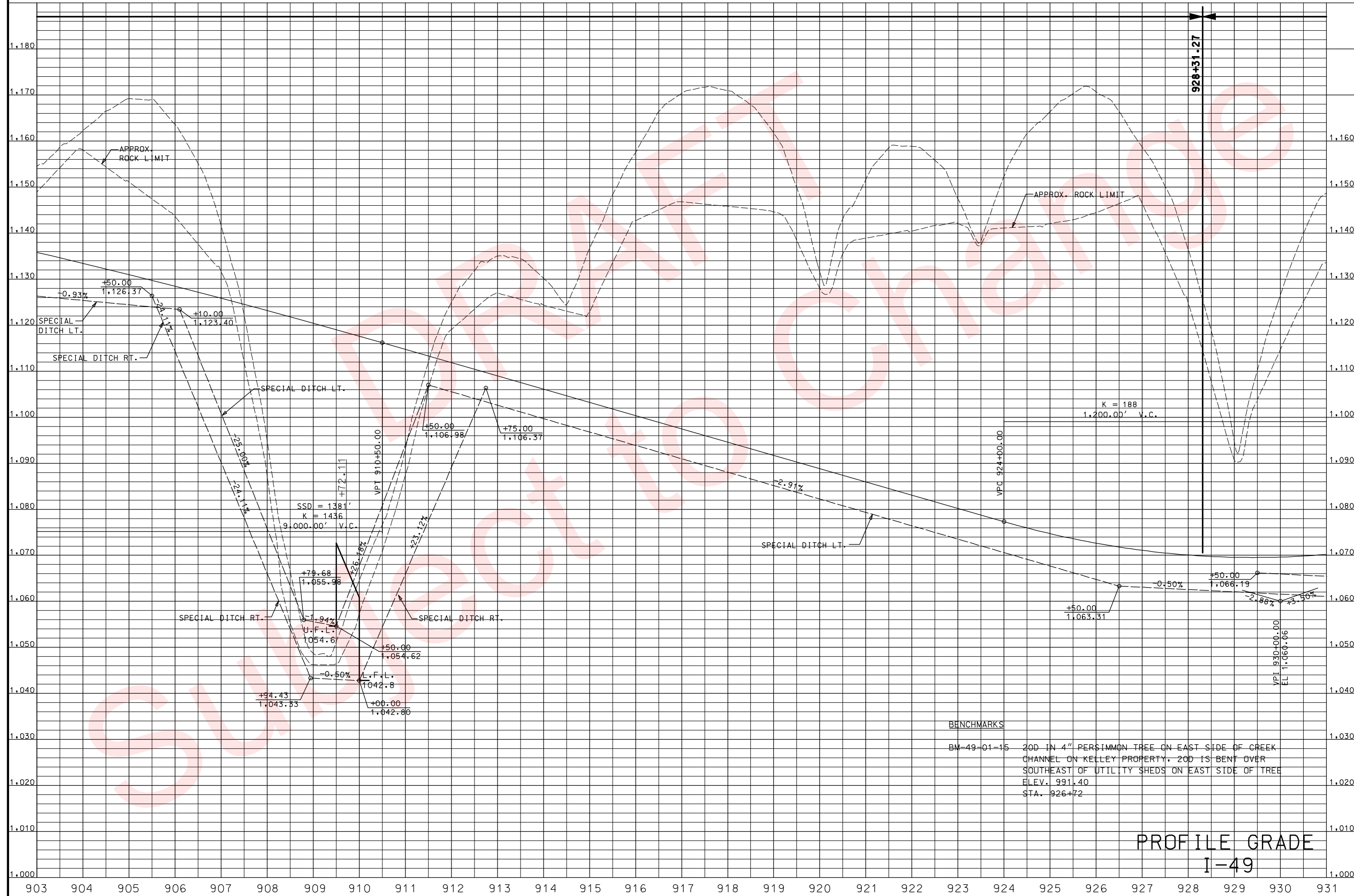
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



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

STA. 931+75.00 I-49
2' x 2' PRECAST D.I. TYPE B
STA. 931+75.00 TO 930+75.00 I-49
15" x 98' GROUP B PIPE

STA. 936+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
STA. 936+00.00 TO 934+25.00 I-49
15" x 173' GROUP B PIPE

STA. 940+50.00 I-49
2' x 2' PRECAST D.I. TYPE B
STA. 940+50.00 TO 938+00.00 I-49
15" x 248' GROUP B PIPE

BRIDGE #A7053
STA. 935+56.97 I-49
DBL. 9' X 7' R.C.B.
HEADWALLS LT. & RT.
SKEW= 8° R.A.
D.A. = 554.1 Ac.
Q₅₀ = 1819 cfs (DESIGN)
Q₁₀₀ = 2568 cfs (OVERTOPPING>500 YR.)

STA. 934+25.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 34' CL III R.C.P.
TYPE B PIPE COLLAR
15" X 126' GROUP B PIPE
15" GROUP B F.E.S.

STA. 938+00.00 I-49
2' x 2' PRECAST D.I. TYPE B
15" x 34' CL III R.C.P.
TYPE B PIPE COLLAR
15" X 133' GROUP B PIPE
15" GROUP B F.E.S.

STA. 958+02.44 I-49
42" X 297' CLASS IV R.C.P.
2 - 42" F.E.S.
SKEW = 7° R.A.
D.A. = 11.2 Ac.
Q₅₀ = 62 cfs (DESIGN)
Q₁₀₀ = 72 cfs (OVERTOPPING>100 YR.)

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

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

(18)
LINDA GAYLE TIPTON
6.20 Ac. NEW R/W
9.08 Ac. REMAINING LT.
14.72 Ac. REMAINING RT.

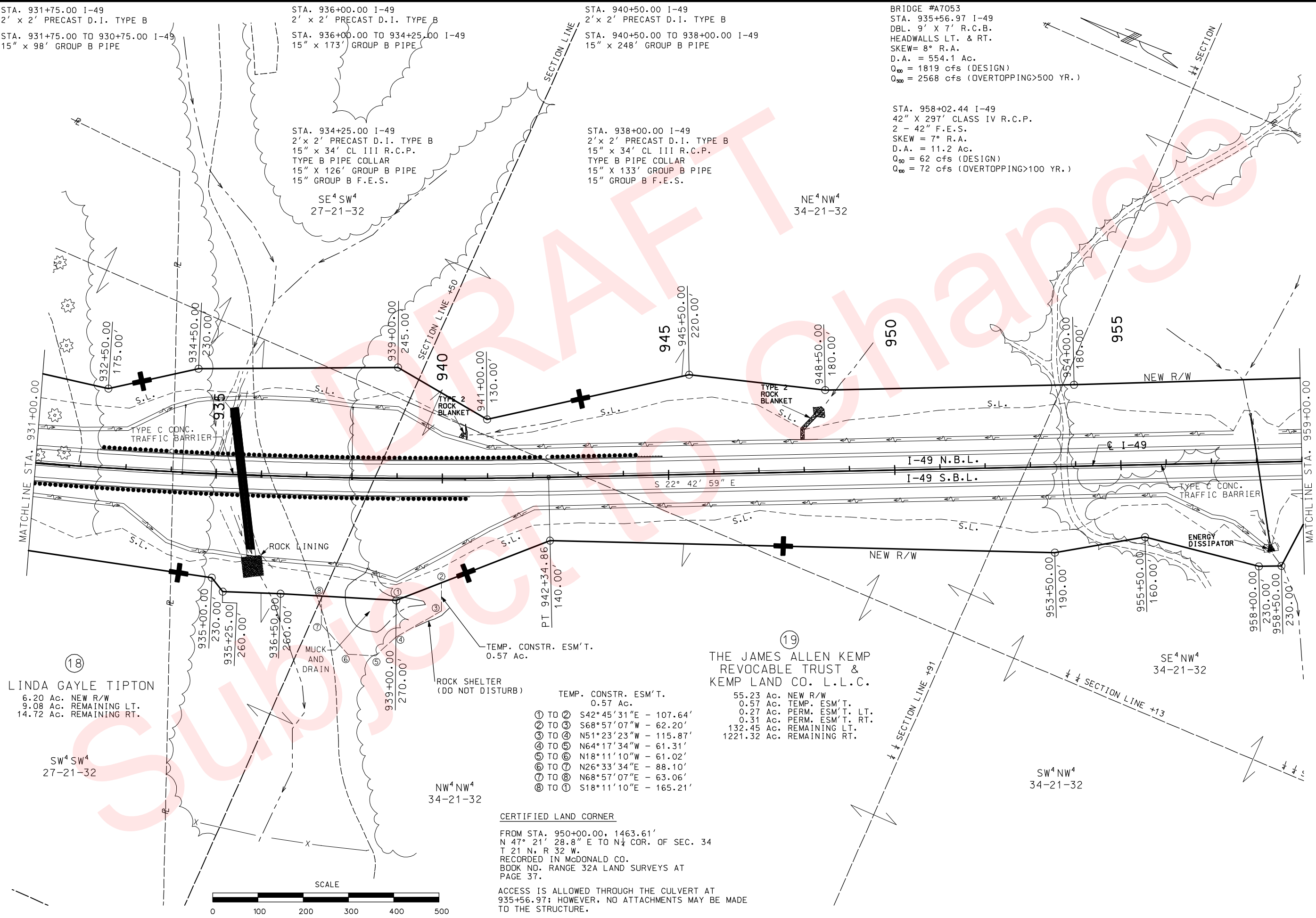
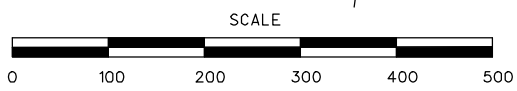
- TEMP. CONSTR. ESM'T.
0.57 Ac.
- ① TO ② S42°45'31"E - 107.64'
 - ② TO ③ S68°57'07"W - 62.20'
 - ③ TO ④ N51°23'23"W - 115.87'
 - ④ TO ⑤ N64°17'34"W - 61.31'
 - ⑤ TO ⑥ N18°11'10"W - 61.02'
 - ⑥ TO ⑦ N26°33'34"E - 88.10'
 - ⑦ TO ⑧ N68°57'07"E - 63.06'
 - ⑧ TO ① S18°11'10"E - 165.21'

(19)
THE JAMES ALLEN KEMP
REVOCABLE TRUST &
KEMP LAND CO. L.L.C.

- TEMP. CONSTR. ESM'T.
0.57 Ac.
- 55.23 Ac. NEW R/W
 - 0.57 Ac. TEMP. ESM'T.
 - 0.27 Ac. PERM. ESM'T. LT.
 - 0.31 Ac. PERM. ESM'T. RT.
 - 132.45 Ac. REMAINING LT.
 - 1221.32 Ac. REMAINING RT.

CERTIFIED LAND CORNER
FROM STA. 950+00.00, 1463.61'
N 47° 21' 28.8" E TO N 1/4 COR. 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
935+56.97; HOWEVER, NO ATTACHMENTS MAY BE MADE
TO THE STRUCTURE.

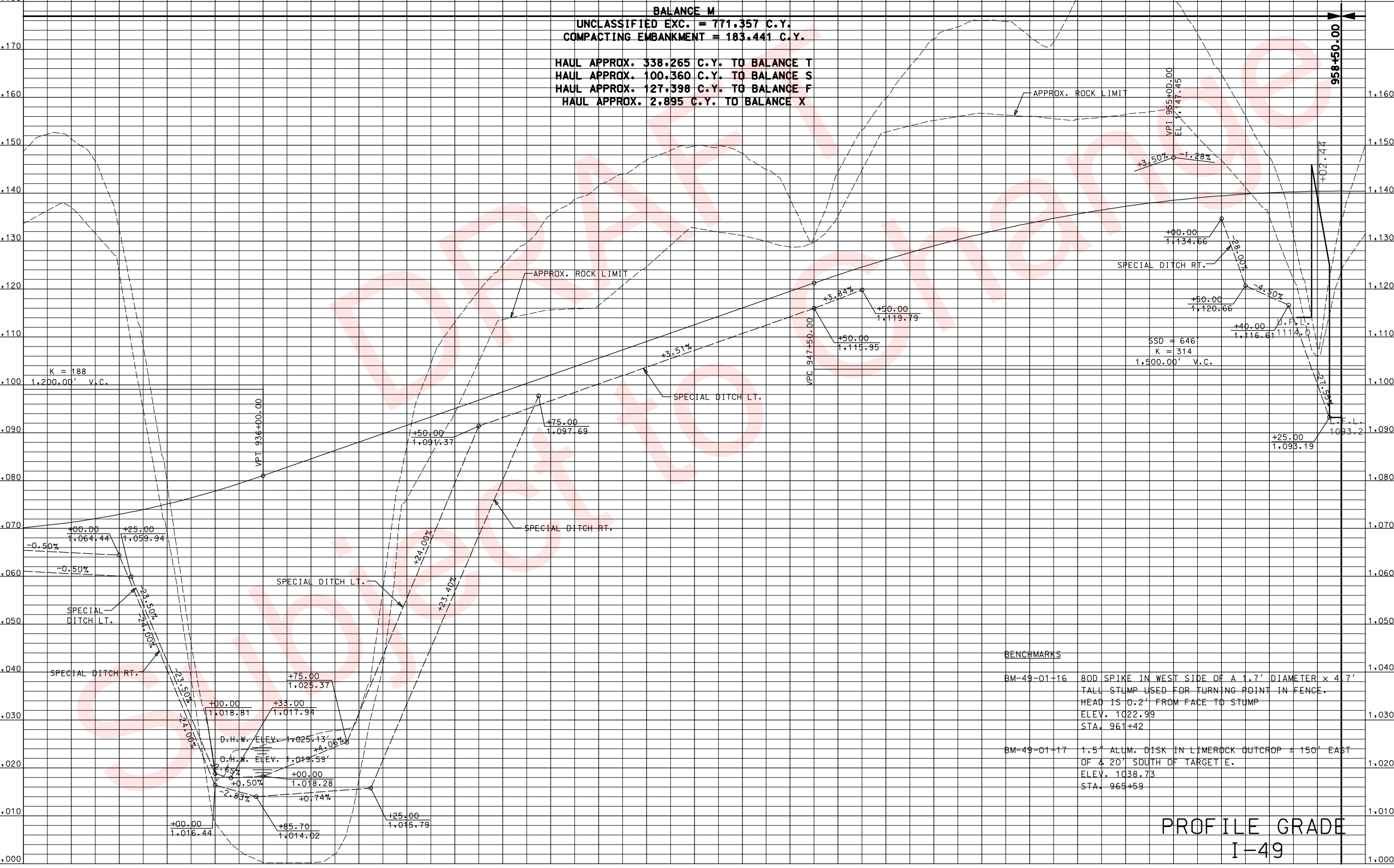


MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

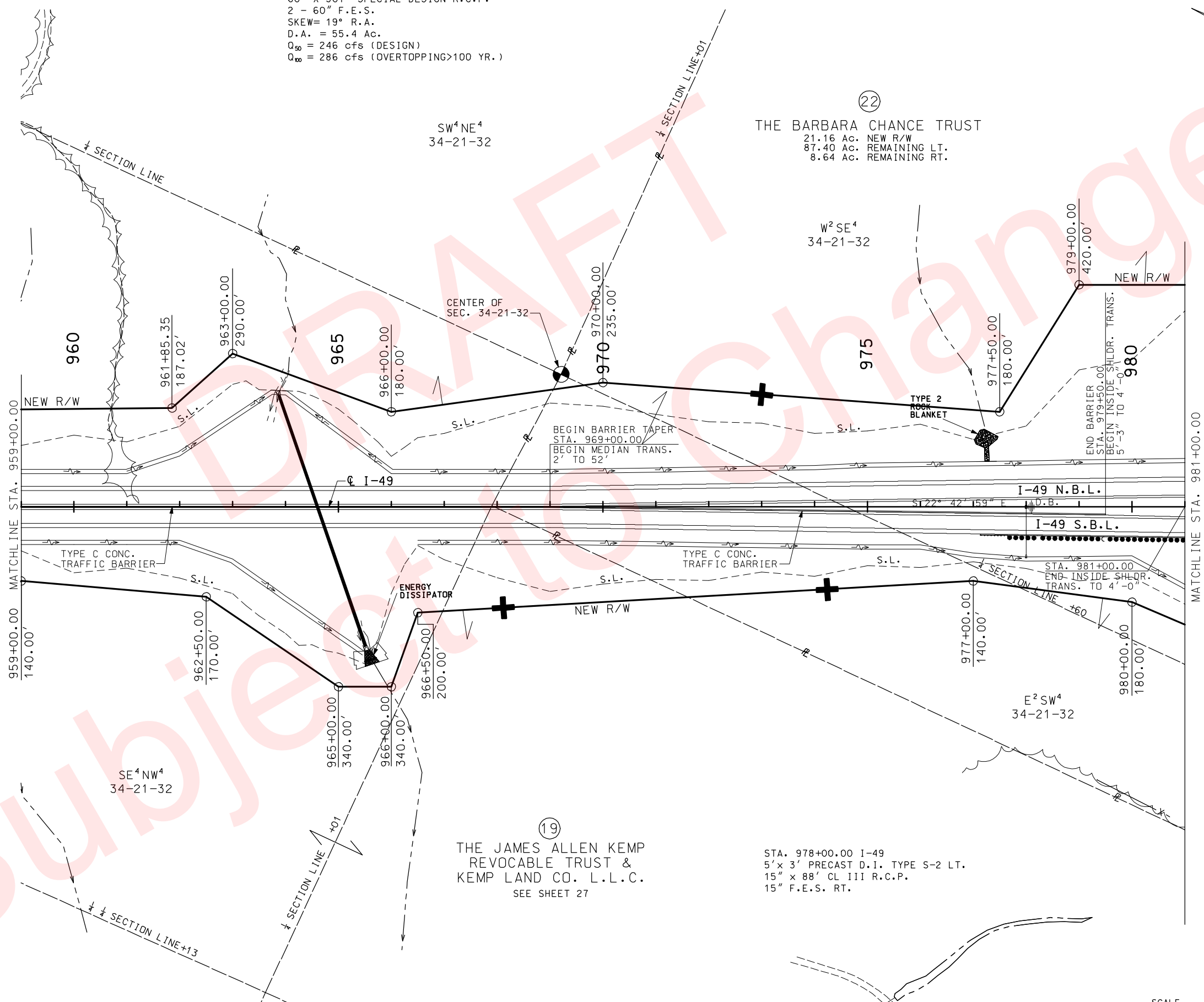
DESCRIPTION	DATE



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



STA. 964+60.36 I-49
 60" X 501' SPECIAL DESIGN R.C.P.
 2 - 60" F.E.S.
 SKEW= 19° R.A.
 D.A. = 55.4 Ac.
 Q₅₀ = 246 cfs (DESIGN)
 Q₁₀₀ = 286 cfs (OVERTOPPING>100 YR.)



SW⁴NE⁴
 34-21-32

22
 THE BARBARA CHANCE TRUST
 21.16 AC. NEW R/W
 87.40 AC. REMAINING LT.
 8.64 AC. REMAINING RT.

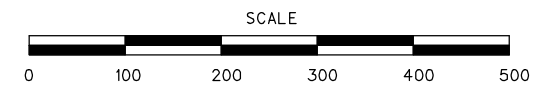
W²SE⁴
 34-21-32

SE⁴NW⁴
 34-21-32

19
 THE JAMES ALLEN KEMP
 REVOCABLE TRUST &
 KEMP LAND CO. L.L.C.
 SEE SHEET 27

STA. 978+00.00 I-49
 5' X 3' PRECAST D.I. TYPE S-2 LT.
 15" X 88' CL III R.C.P.
 15" F.E.S. RT.

ACCESS IS ALLOWED THROUGH THE CULVERT AT
 964+60.36; HOWEVER, NO ATTACHMENTS MAY BE MADE
 TO THE STRUCTURE.



"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
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

REV.

DATE PREPARED
02/04/2010

ROUTE STATE
49 MO
DISTRICT SHEET NO.
7 30

COUNTY
MCDONALD
JOB NO.
J7P0601
CONTRACT ID.

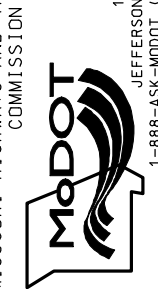
PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



BALANCE IN
UNCLASSIFIED EXG. = 790,225 C.Y.
COMPACTING EMBANKMENT = 277,578 C.Y.

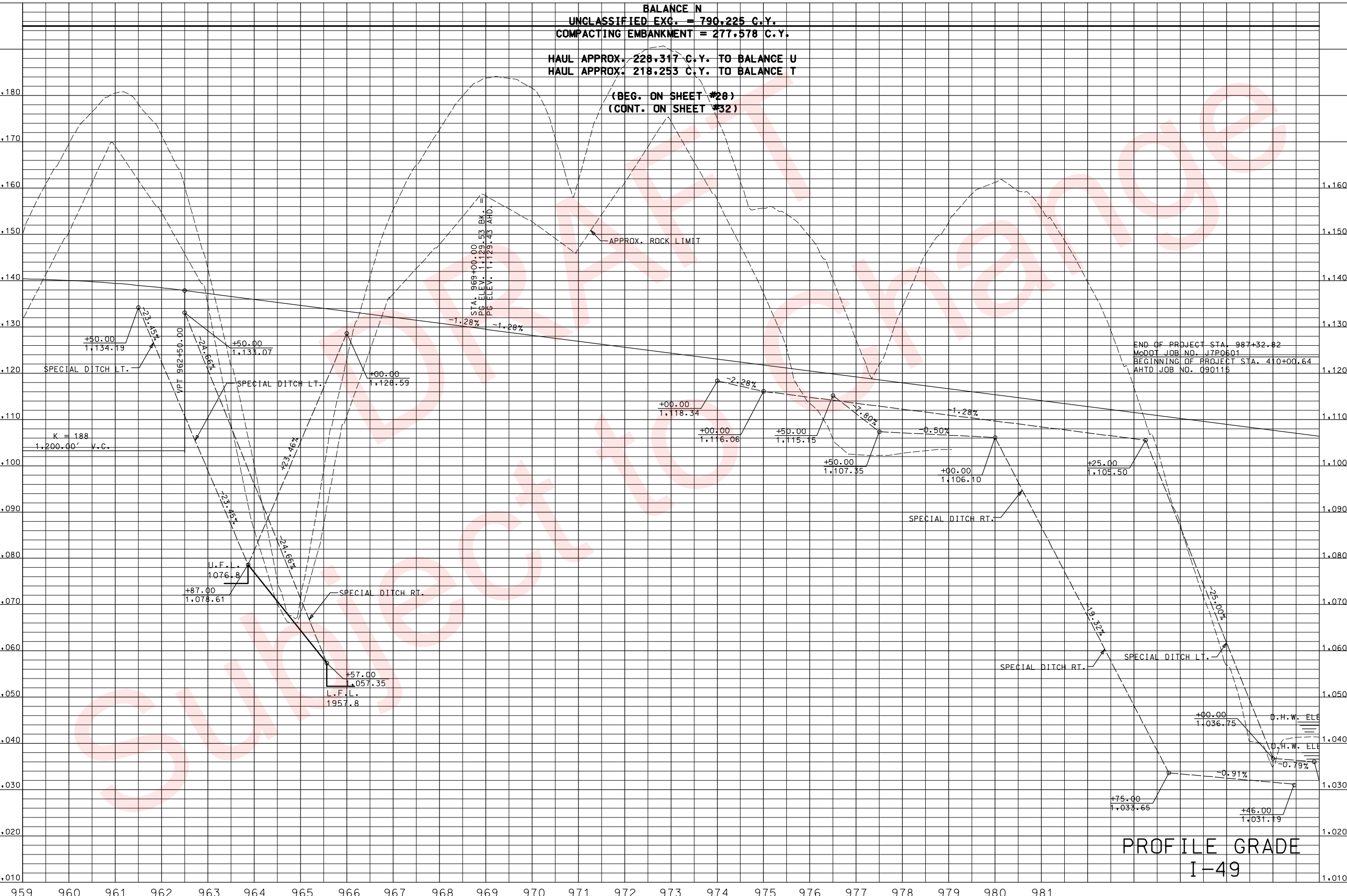
HAUL APPROX. 228,317 C.Y. TO BALANCE U
HAUL APPROX. 218,253 C.Y. TO BALANCE T

(BEG. ON SHEET #28)
(CONT. ON SHEET #32)

APPROX. ROCK LIMIT

STA. 969+00.00
P.C. ELEV. 1,129.53 BK. =
P.G. ELEV. 1,129.43 AHD.

END OF PROJECT STA. 987+32.02
MoDOT JOB NO. J7P0601
BEGINNING OF PROJECT STA. 410+00.64
AHTD JOB NO. Q90115



PROFILE GRADE
I-49

REV.

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

DATE PREPARED
02/04/2010

ROUTE STATE
49 MO

DISTRICT SHEET NO.
7 31

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

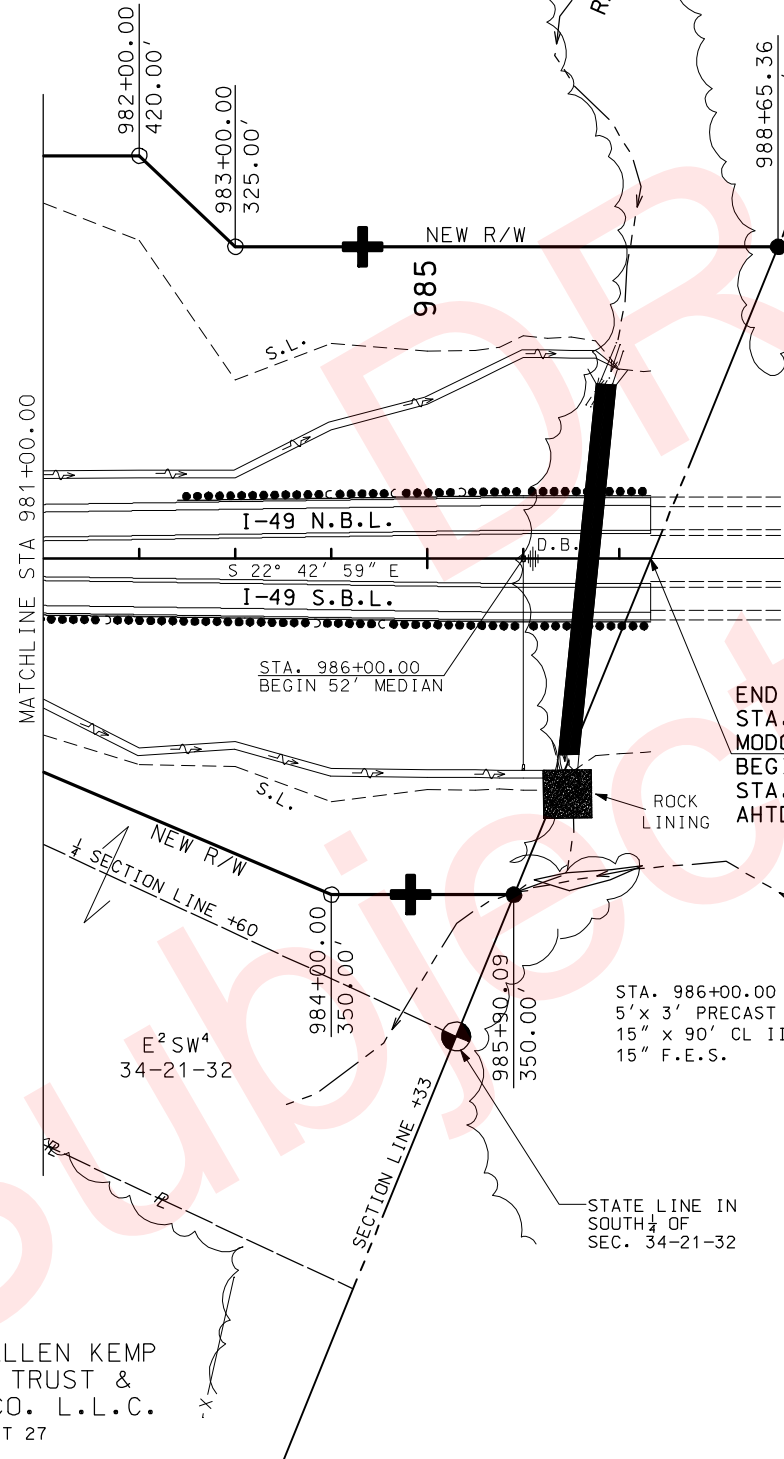
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



REV.

(22)
THE BARBARA CHANCE TRUST
SEE SHEET 29

W²SE⁴
34-21-32



BRIDGE #A7054
STA. 986+67.90 I-49
DBL. 10' x 8' R.C.B.
HEADWALLS LT. & RT.
SKEW = 6° L.A.
D.A. = 1359.7 Ac.
Q₈₈ = 2812 cfs (DESIGN)
Q₈₈ = 3931 cfs (OVERTOPPING > 500 YR.)

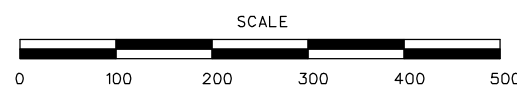
END OF PROJECT
STA. 987+32.82
MODOT J7P0601
BEGINNING OF PROJECT
STA. 410+00.64
AHTD JOB NO. 090115

STA. 986+00.00 I-49
5' x 3' PRECAST D.I. TYPE S-2
15" x 90' CL III R.C.P.
15" F.E.S.

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.



(19)
THE JAMES ALLEN KEMP
REVOCABLE TRUST &
KEMP LAND CO. L.L.C.
SEE SHEET 27

"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.

DESCRIPTION

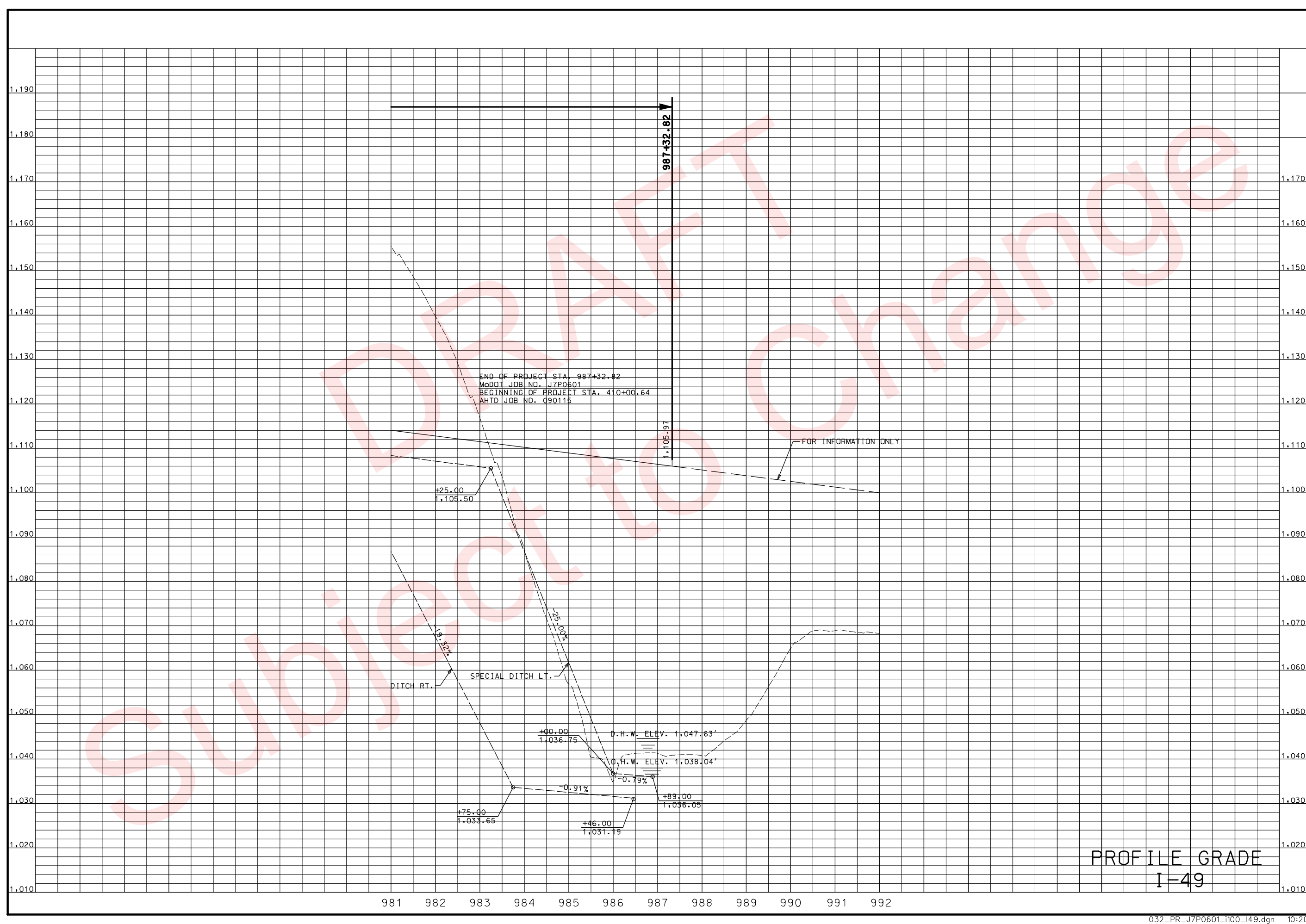
DATE

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

STA. 56+50.00 RTE. 90
 18" X 48' GROUP B PIPE
 2 - 18" GROUP B F.E.S.
 D.A. = 0.5 Ac.
 Q₅₀ = 2 cfs (DESIGN)
 Q₈₈ = 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.
 Q₅₀ = 2 cfs (DESIGN)
 Q₈₈ = 3 cfs (OVERTOPPING > 100 YR.)

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

16
 VIOLA MAE JOSS ADAMS ET.AL.
 SEE SHEET 17

NE⁴SE⁴
 21-21-32

STA. 50+00.00 C ROUTE 90
 STA. 873+22.20 C I-49

LLOYD SUMNER
 23.40 Ac. NEW R/W
 0.98 Ac. PERM. ESM'T LT.
 0.13 Ac. PERM. ESM'T RT.
 14.93 Ac. REMAINING LT.
 2.20 Ac. REMAINING RT.

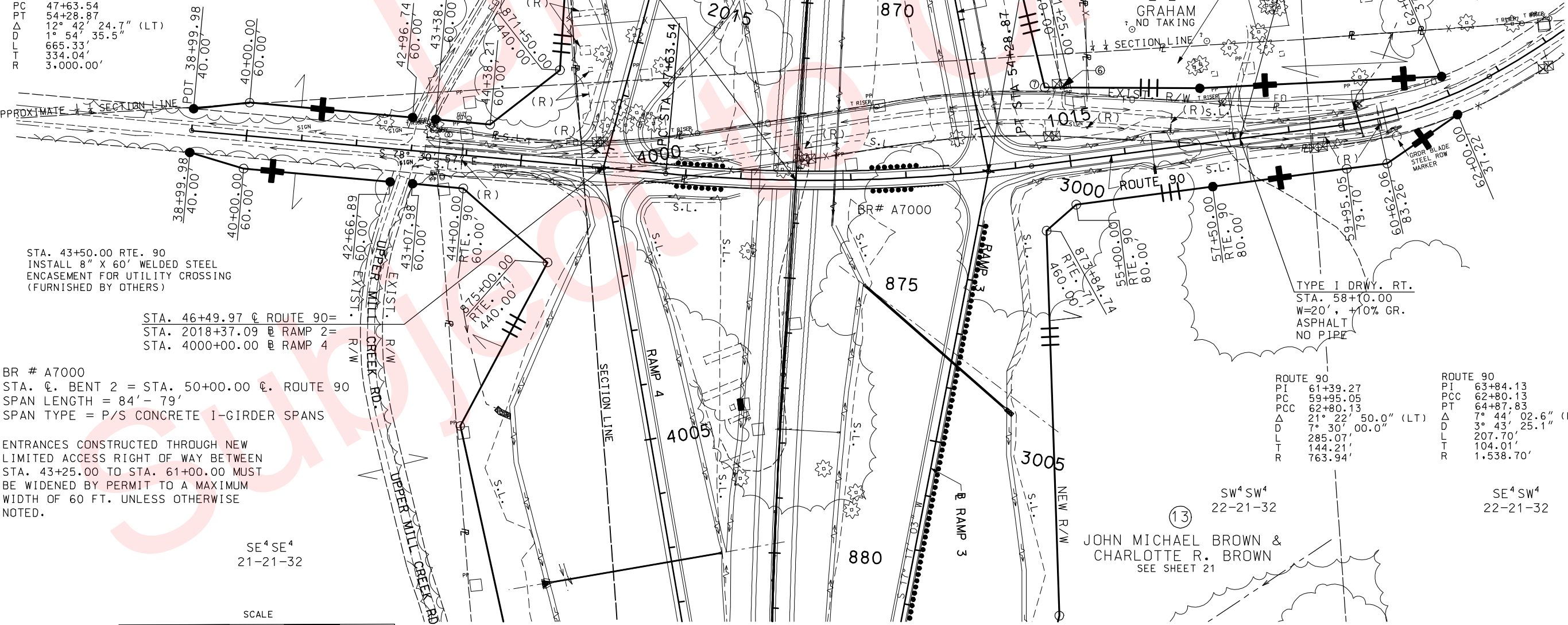
NE⁴SW⁴
 22-21-32

NW⁴SW⁴
 22-21-32

JERRY W. WATKINS &
 JOANNE WATKINS
 SEE SHEET 17

- 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 ⑪ 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
 ENCASUREMENT FOR UTILITY CROSSING
 (FURNISHED BY OTHERS)

STA. 46+49.97 C ROUTE 90 =
 STA. 2018+37.09 R RAMP 2 =
 STA. 4000+00.00 R RAMP 4

BR # A7000
 STA. C. BENT 2 = STA. 50+00.00 C. 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.

SE⁴SE⁴
 21-21-32

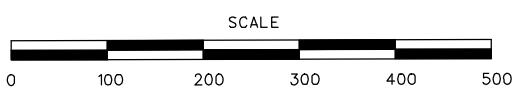
ROUTE 90
 PI 61+39.27
 PC 59+95.05
 PCC 62+80.13
 Δ 21° 22' 50.0" (LT)
 D 7° 30' 00.0"
 L 285.07'
 T 144.21'
 R 763.94'

ROUTE 90
 PI 63+84.13
 PCC 62+80.13
 PT 64+87.83
 Δ 7° 44' 02.6" (LT)
 D 3° 43' 25.1"
 L 207.70'
 T 104.01'
 R 1,538.70'

SW⁴SW⁴
 22-21-32

JOHN MICHAEL BROWN &
 CHARLOTTE R. BROWN
 SEE SHEET 21

SE⁴SW⁴
 22-21-32



"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)

REV.

"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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

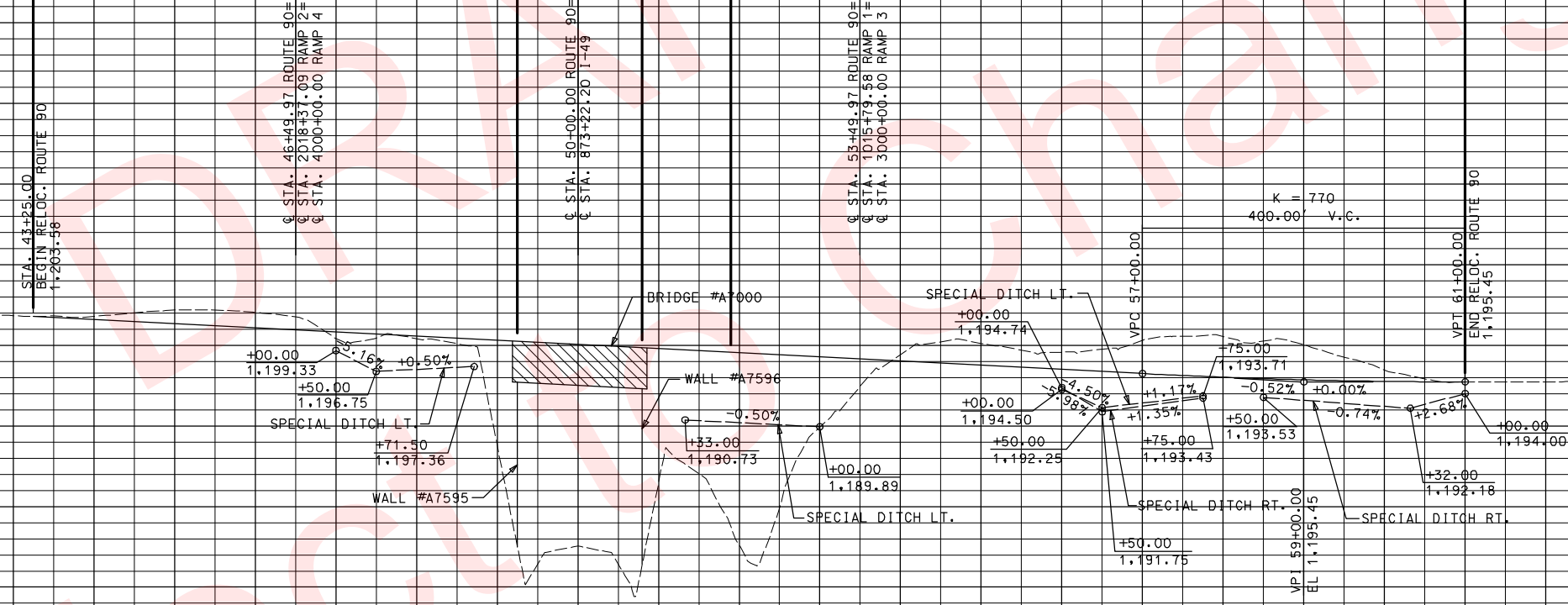
BALANCE P
UNCLASSIFIED EXC. = 10 C.Y.
COMPACTING EMBANKMENT = 3.628 C.Y.

OBTAIN APPROX. 1,365 C.Y. FROM BALANCE W
OBTAIN APPROX. 2,254 C.Y. FROM BALANCE O

BALANCE O
UNCLASSIFIED EXC. = 2,547 C.Y.
COMPACTING EMBANKMENT = 79 C.Y.
HAUL APPROX. 2,254 C.Y. TO BALANCE P
HAUL APPROX. 202 C.Y. TO BALANCE S

BRIDGE EXCEPTION

BALANCE Q
UNCLASSIFIED EXC. = 9,384 C.Y.
COMPACTING EMBANKMENT = 8,160 C.Y.



PROFILE GRADE
ROUTE 90

43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61

32
 VIRGIL CANOY, SR.
 0.82 AC. NEW R/W
 119.18 AC. REMAINING RT.

CURVE KELLEY RD-C2
 PI 705+63.26
 PC 704+47.02
 PT 706+64.63
 Δ 49° 52' 24.4" (RT)
 D 22° 55' 05.9"
 L 217.61'
 T 116.24'
 R 250.00'
 SE 8.0%

CURVE KELLEY RD-C1
 PI 702+40.73
 PC 701+50.00
 PT 703+24.08
 Δ 39° 53' 43.4" (RT)
 D 22° 55' 05.9"
 L 174.08'
 T 90.73'
 R 250.00'
 SE 8.0%

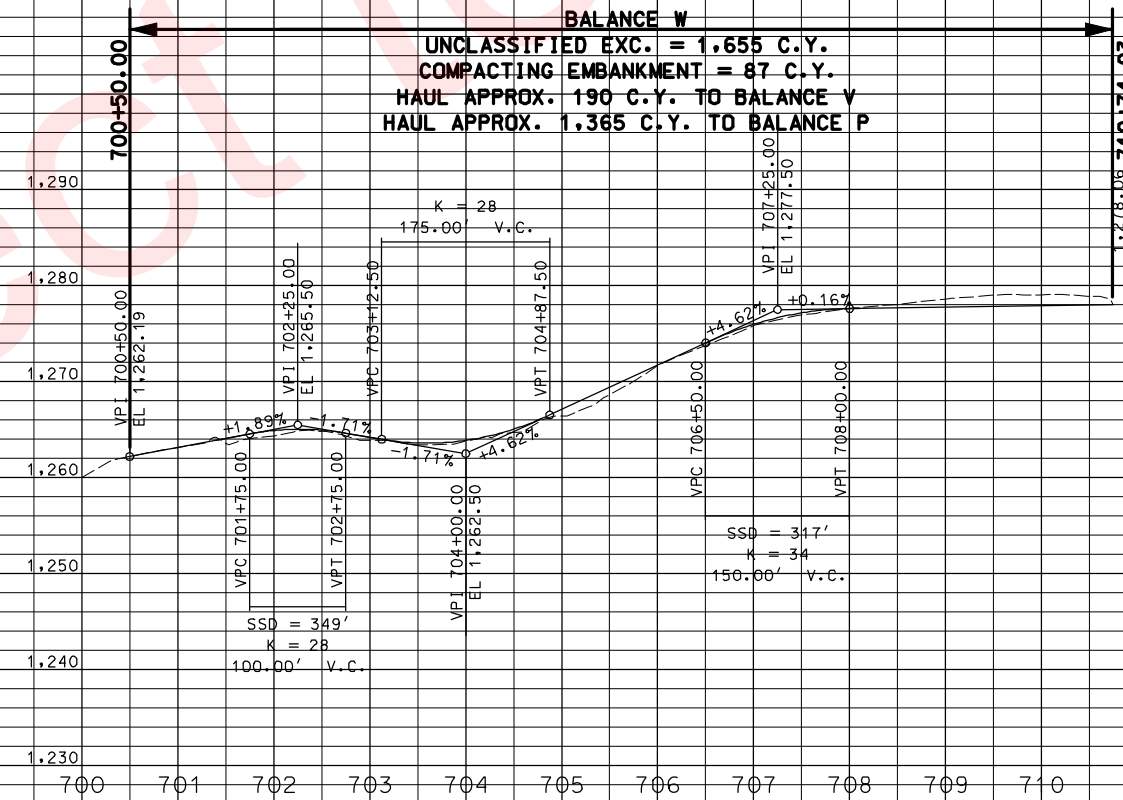
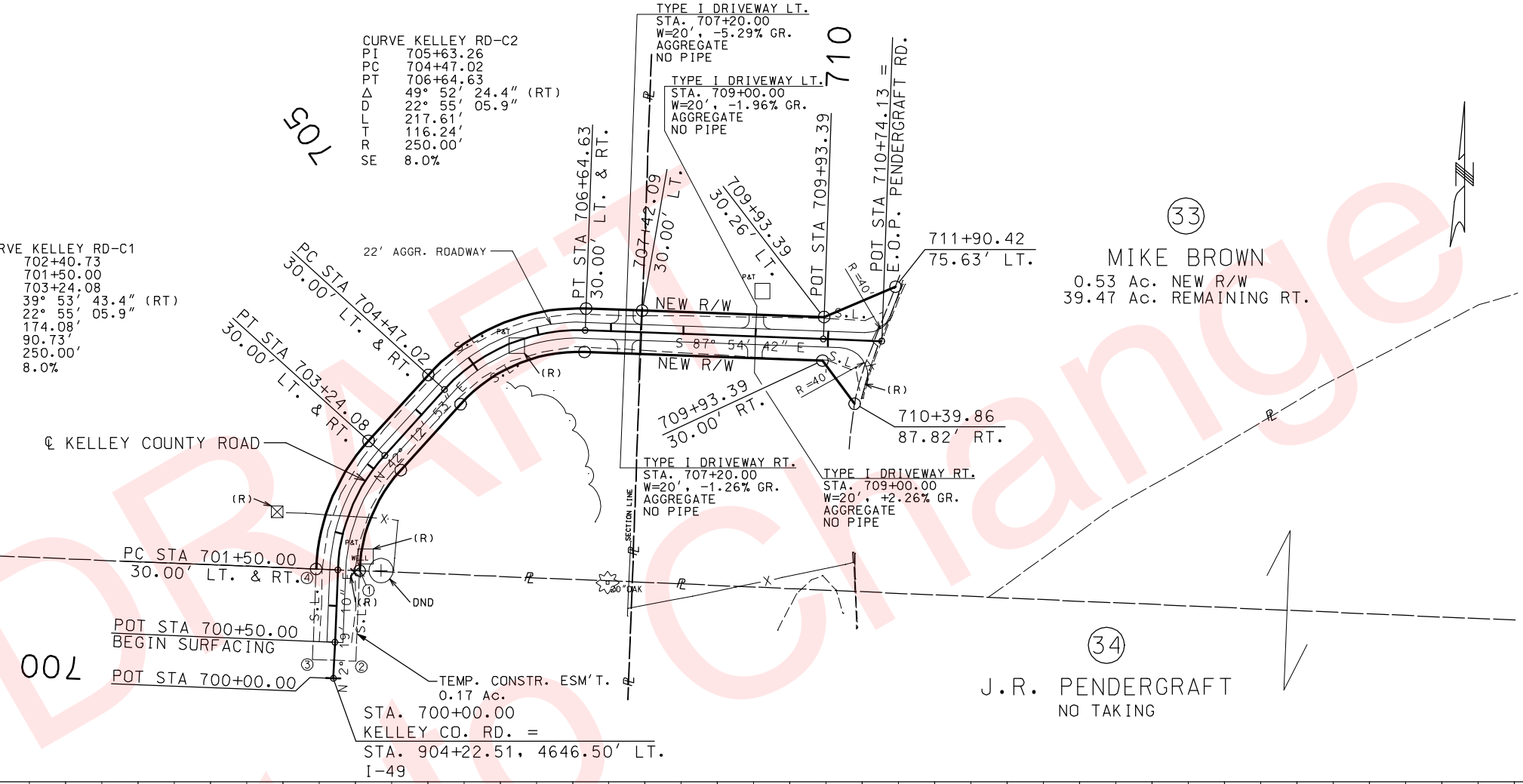
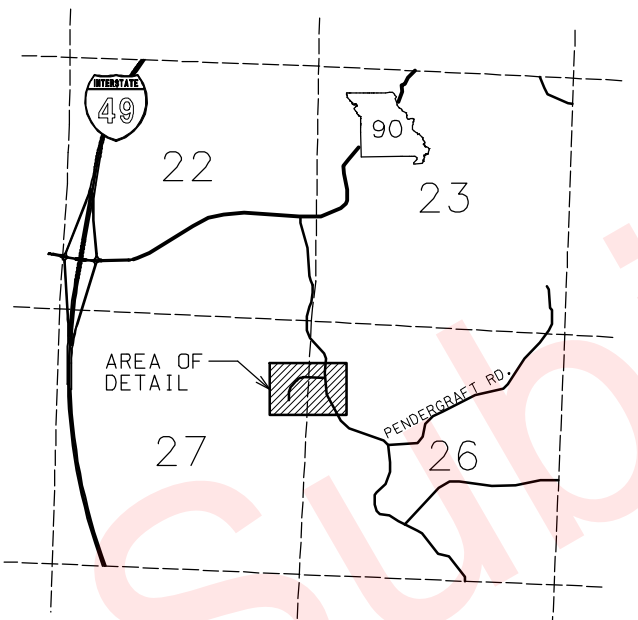
TEMP. CONSTR. ESM'T.
 0.17 AC.
 ① TO ② S02°19'10"W - 125.00'
 ② TO ③ N87°40'50"W - 60.00'
 ③ TO ④ N02°19'10"E - 125.00'
 ④ TO ① S87°40'50"E - 60.00'

33
 MIKE BROWN
 0.53 AC. NEW R/W
 39.47 AC. REMAINING RT.

34
 J.R. PENDERGRAFT
 NO TAKING

30
 EDWIN & DIXIE KELLEY
 SEE SHEET 21

LOCATION MAP
 (N.T.S.)



PROFILE GRADE
 KELLEY CO. RD.

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

DATE PREPARED		02/04/2010	
ROUTE	STATE	DISTRICT	SHEET NO.
49	MO	7	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.

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

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.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.

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

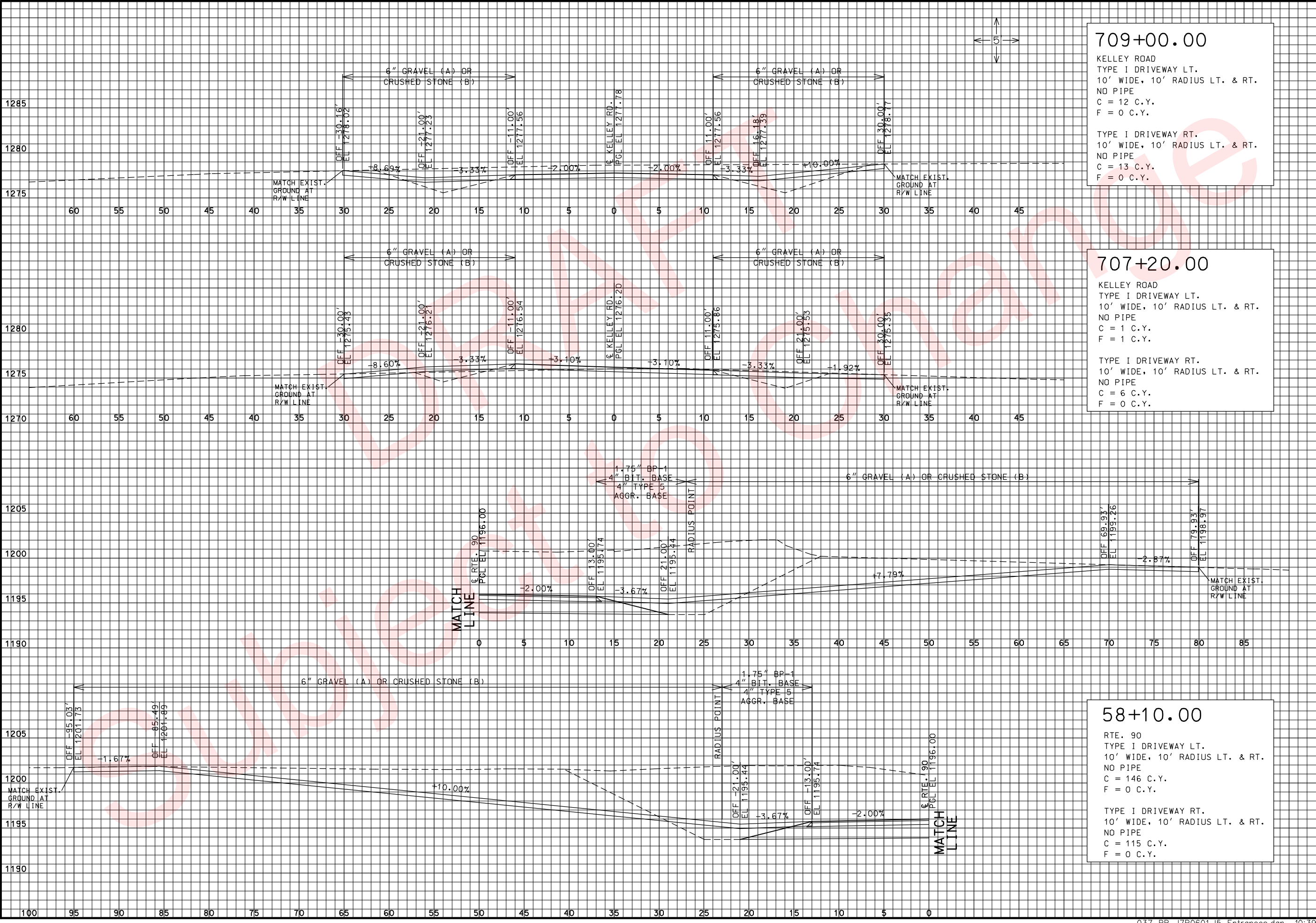
KELLEY ROAD
TYPE I DRIVEWAY LT.
10' WIDE, 10' RADIUS LT. & RT.
NO PIPE
C = 1 C.Y.
F = 1 C.Y.

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

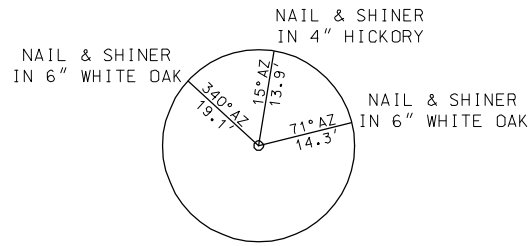
58+10.00

RT. 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.



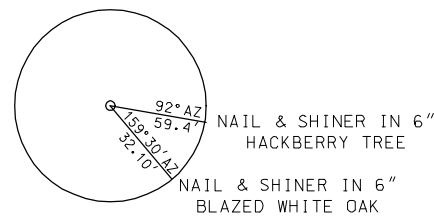
TARGET "P"



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

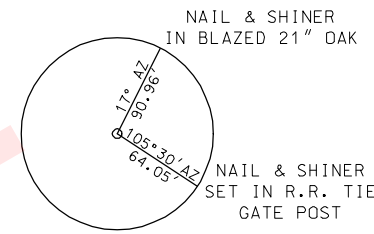
TARGET "G"



CLOTH TARGET SET WITH 5/8"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

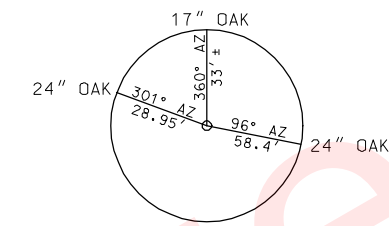
TARGET "F"



CLOTH TARGET SET WITH 5/8"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

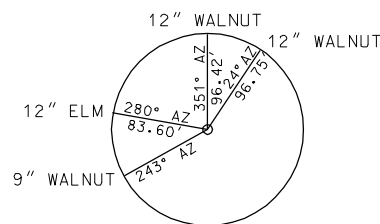
T-POST X 4 SET ON 6' O/S N.S.E. & W/OF TARGET WITH BARBED WIRE

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

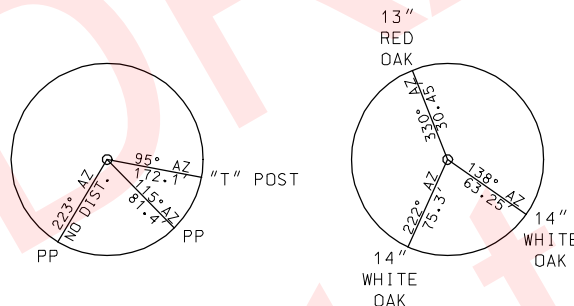
TARGET "HH"



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

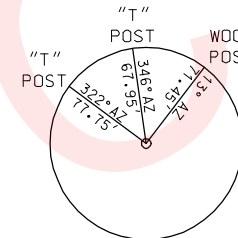
(TARGET FENCED)

TARGET "QQ"



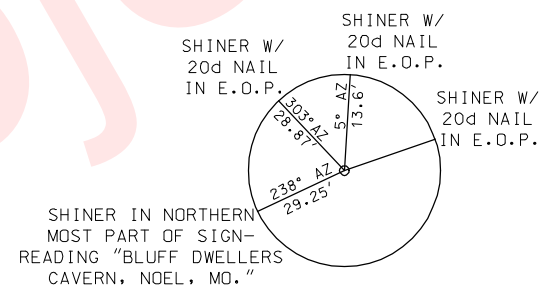
CLOTH TARGET SET WITH 5/8"x18" IP WITH DRILLED CENTER SET IN CONC. CONC. IS 0.25' BELOW SURFACE. IP ABOVE CONC. TO REACH TARGET "QQ." TAKE TRAIL NORTH OF DONALD GARDNER HOUSE, FOLLOW TRAIL TO THE NORTH. TRAIL TURNS BACK TO WEST THRU GATE. TARGET LOCATED APPROX. 100 FT. WEST OF GATE. SEC 15, T 21 N, R 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,

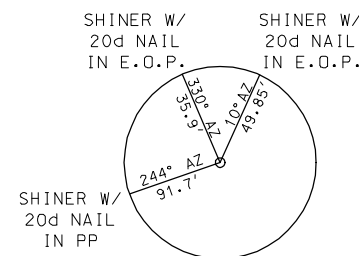
GPS 306



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

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

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



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.

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 TANGENT	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 TANGENT	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.

Coordinated Point Sheet
Sheet 1 of 2

"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)

MoDOT

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

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.

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

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.

DATE	DESCRIPTION	REVISION

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. 41

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

DATE

DESCRIPTION

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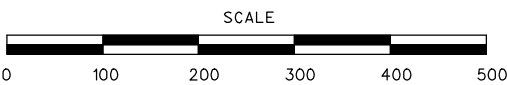
DATE

DESCRIPTION

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

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'

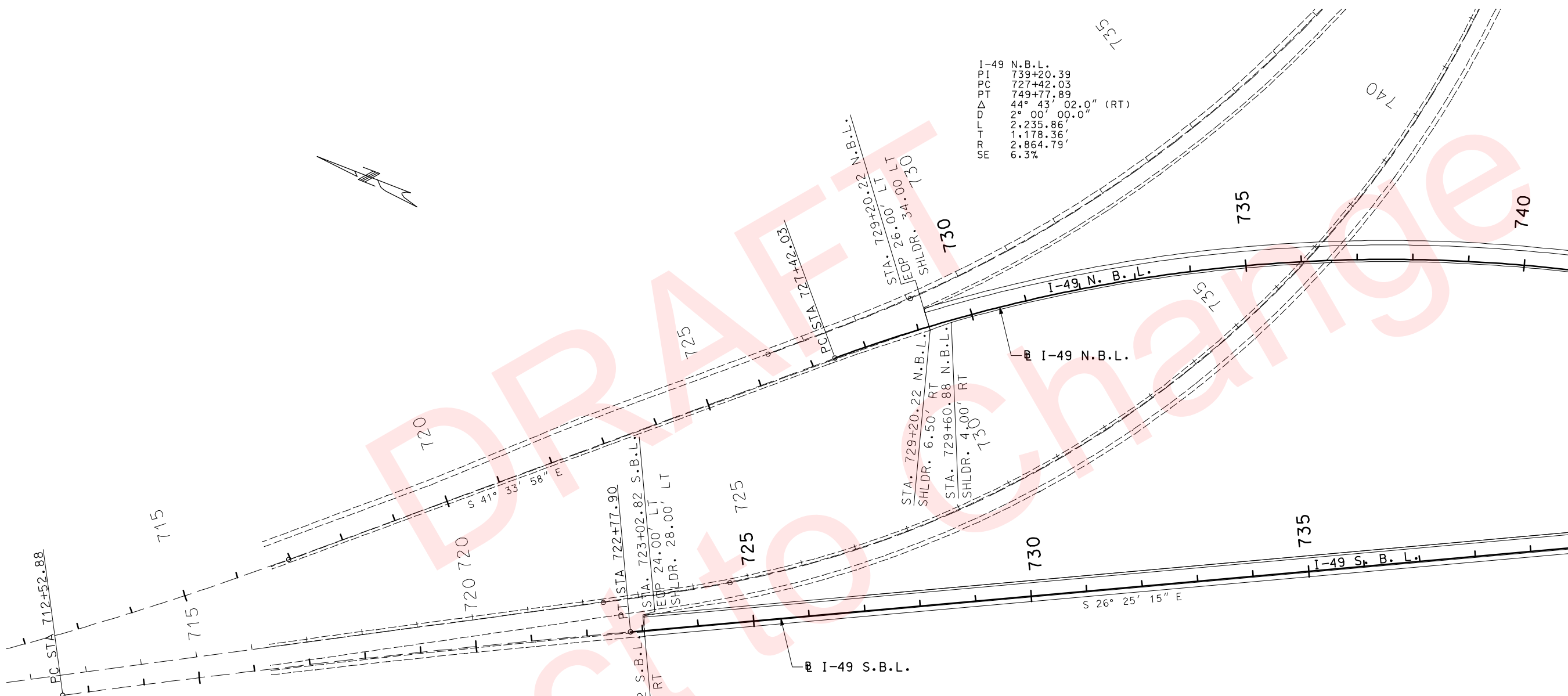


I-49 N.B.L. & S.B.L.
PAVEMENT TRANSITION DETAILS
SPECIAL SHEET
SHEET 1 OF 16

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



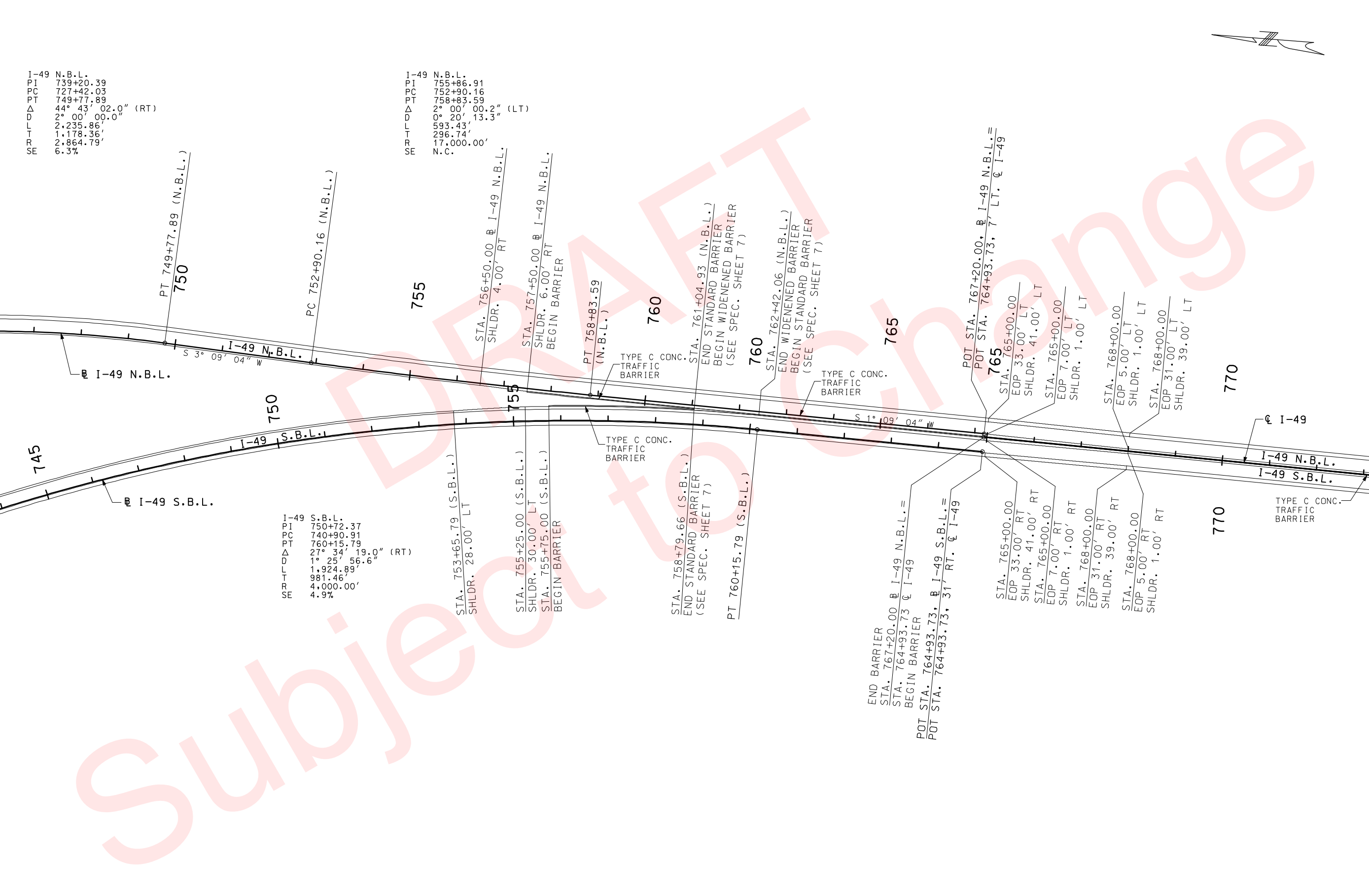
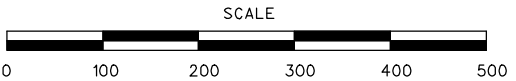
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



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 N.B.L.
 PI 755+86.91
 PC 752+90.16
 PT 758+83.59
 Δ 2° 00' 00.2" (LT)
 D 0° 20' 13.3"
 L 593.43'
 T 296.74'
 R 17,000.00'
 SE N.C.

I-49 S.B.L.
 PI 750+72.37
 PC 740+90.91
 PT 760+15.79
 Δ 27° 25' 34.19"
 D 1° 25' 34.19" (RT)
 L 1,924.89'
 T 981.46'
 R 4,000.00'
 SE 4.9%



"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.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

I-49 N.B.L. & S.B.L.
 PAVEMENT TRANSITION DETAILS
SPECIAL SHEET
 SHEET 2 OF 16

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

STA. 47+59.53 RTE. 90, 80.00' LT
STA. 2017+39.28 RAMP 2, 94.00' LT

STA. 47+18.55 RTE. 90
SHLDR. 63.00' LT
STA. 47+17.39 RTE. 90
EOP 12.00' LT
STA. 2017+39.28 RAMP 2
EOP 14.00' LT
SHLDR. 18.00' LT

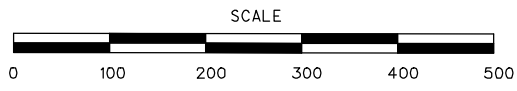
STA. 2017+54.32 RAMP 2
EOP 0.00' RT
SHLDR. 8.00' RT
STA. 46+03.63 RTE. 90
SHLDR. 28.84' RT
STA. 45+90.49 RTE. 90, 94.54' LT
STA. 2017+54.32 RAMP 2, 75.00' RT
STA. 46+05.19 RTE. 90
EOP 21.00' LT
STA. 45+65.19 RTE. 90
EOP 13.00' LT
STA. 45+55.19 RTE. 90
EOP 11.00' & 13.00' LT
STA. 45+24.40 RTE. 90
SHLDR. 13.00' LT

DETAIL A & B SCALE (2X)
0 50 100 150

STA. 849+09.42 I-49
SHLDR. 39.00' LT
STA. 849+59.42 I-49
EOP 31.00' & 33.00' LT
PT 851+29.96
STA. 851+59.42 I-49
EOP 41.00' LT
SHLDR. 49.00' LT
PC STA. 1000+00.00 @ RAMP 1 =
STA. 857+39.42, 41' LT. @ I-49

STA. 849+14.32 I-49
SHLDR. 41.00' RT
STA. 849+64.32 I-49
EOP 33.00' & 35.00' RT
STA. 851+29.96 I-49
EOP 7.00' RT
STA. 851+64.32 I-49
EOP 42.77' RT
SHLDR. 50.77' RT
STA. 854+29.96 I-49
EOP 5.00' RT
STA. 854+29.96 I-49
EOP 41.00' RT
SHLDR. 49.00' RT
PC 2000+00.00 @ RAMP 2 =
STA. 855+14.32 I-49, 41.00' RT

RAMP 2
PI 2002+92.58
PC 2000+00.00
PT 2005+83.19
Δ 11° 31' 20.0" (RT)
D 1° 58' 32.6"
L 583.19'
T 292.58'
R 2900.00'
SE 5.0%



STA. 47+68.59 RTE. 90, 80.00' LT
STA. 4001+08.00 RAMP 4, 94.00' LT

STA. 47+27.73 RTE. 90
SHLDR. 16.00' RT
STA. 47+26.57 RTE. 90
EOP 12.00' RT
STA. 4001+08.00 RAMP 4
EOP 14.00' LT
SHLDR. 18.00' LT

STA. 4001+05.69 RAMP 4
EOP 0.00' RT
SHLDR. 8.00' RT
STA. 4000+62.72 RAMP 4
EOP 4.14' RT
STA. 4000+64.25 RAMP 4
SHLDR. 11.99' RT
STA. 45+94.80 RTE. 90, 94.54' RT
STA. 4000+77.04 RAMP 4, 77.76' RT
STA. 46+07.94 RTE. 90
SHLDR. 28.84' RT
STA. 46+09.51 RTE. 90
EOP 21.00' RT
STA. 45+69.51 RTE. 90
EOP 13.00' RT
STA. 45+59.51 RTE. 90
EOP 11.00' & 13.00' RT

STA. 44+59.99 RTE. 90, 160.32' RT
STA. 4001+05.69 RAMP 4, 225.00' RT

RAMP 1
PI 1003+73.50
PC 1000+00.00
PT 1007+42.91
Δ 14° 40' 40.3" (LT)
D 1° 58' 32.6"
L 742.91'
T 2900.00'
SE 5.0%

PT 851+29.96
STA. 851+59.42 I-49
EOP 41.00' LT
SHLDR. 49.00' LT
PC STA. 1000+00.00 @ RAMP 1 =
STA. 857+39.42, 41' LT. @ I-49
STA. 2003+22.39 RAMP 2
EOP 16.00' LT
STA. 858+37.82 I-49
EOP 41.00' & 43.00' RT
STA. 858+91.26 I-49
SHLDR. 45.22' & 47.22' RT
STA. 2003+82.39 RAMP 2
EOP 14.00' LT
SHLDR. 18.00' RT
STA. 860+77.82 I-49
EOP 31.00' & 33.00' RT
SHLDR. 39.00' RT
PT STA. 2005+83.19
RAMP 2
EOP 16.00' LT

RAMP 2
PI 2002+92.58
PC 2000+00.00
PT 2005+83.19
Δ 11° 31' 20.0" (RT)
D 1° 58' 32.6"
L 583.19'
T 292.58'
R 2900.00'
SE 5.0%

4000
DETAIL A

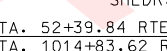
DETAIL B

STA. 54+96.78 RTE. 90
SHLDR. 13.00' LT
STA. 54+65.99 RTE. 90
EOP 11.00' & 13.00' LT
STA. 54+55.99 RTE. 90
EOP 13.00' LT
STA. 54+15.99 RTE. 90
EOP 21.00' LT
STA. 54+17.58 RTE. 90
SHLDR. 28.84' LT
STA. 54+31.18 RTE. 90, 94.49' LT
STA. 1014+91.25 RAMP 1, 86.75' LT
STA. 1015+17.76 RAMP 1
SHLDR. 25.22' LT
STA. 1015+20.91 RAMP 1
EOP 17.86' LT
STA. 1014+33.05 RAMP 1
EOP 0.00' RT
SHLDR. 8.00' LT
STA. 1014+83.62 RAMP 1
EOP 14.00' RT
SHLDR. 18.00' RT
STA. 52+84.10 RTE. 90
EOP 12.00' LT
STA. 52+83.00 RTE. 90
SHLDR. 16.00' LT
STA. 52+39.84 RTE. 90, 85.00' LT
STA. 1014+83.62 RAMP 1, 99.00' RT

STA. 54+63.56 RTE. 90
SHLDR. 13.00' RT
STA. 54+32.77 RTE. 90
EOP 11.00' & 13.00' RT
STA. 54+22.77 RTE. 90
EOP 13.00' RT
STA. 53+84.43 RTE. 90
SHLDR. 28.82' RT
STA. 53+98.16 RTE. 90, 94.34' RT
STA. 3000+75.30 RAMP 3, 75.00' RT
STA. 53+82.82 RTE. 90
EOP 20.99' RT
STA. 3000+75.30 RAMP 3
EOP 0.00' RT
SHLDR. 8.00' LT
STA. 61+00.00 RTE. 90
EOP 10.00' LT
SHLDR. 12.00' LT
STA. 60+00.00 RTE. 90
EOP 11.00' RT
SHLDR. 13.00' RT
STA. 60+00.00 RTE. 90
EOP 10.00' RT
SHLDR. 12.00' RT
PC STA. 59+95.05

STA. 1014+83.62 RAMP 1
EOP 14.00' RT
SHLDR. 18.00' RT
STA. 52+84.10 RTE. 90
EOP 12.00' LT
STA. 52+83.00 RTE. 90
SHLDR. 16.00' LT
STA. 52+39.84 RTE. 90, 85.00' LT
STA. 1014+83.62 RAMP 1, 99.00' RT
STA. 54+63.56 RTE. 90
SHLDR. 13.00' RT
STA. 54+32.77 RTE. 90
EOP 11.00' & 13.00' RT
STA. 54+22.77 RTE. 90
EOP 13.00' RT
STA. 53+84.43 RTE. 90
SHLDR. 28.82' RT
STA. 53+98.16 RTE. 90, 94.34' RT
STA. 3000+75.30 RAMP 3, 75.00' RT
STA. 53+82.82 RTE. 90
EOP 20.99' RT
STA. 3000+75.30 RAMP 3
EOP 0.00' RT
SHLDR. 8.00' LT
STA. 61+00.00 RTE. 90
EOP 10.00' LT
SHLDR. 12.00' LT
STA. 60+00.00 RTE. 90
EOP 11.00' RT
SHLDR. 13.00' RT
STA. 60+00.00 RTE. 90
EOP 10.00' RT
SHLDR. 12.00' RT
PC STA. 59+95.05
STA. 3001+09.87 RAMP 3
EOP 14.00' RT
SHLDR. 18.00' RT
STA. 52+72.60 RTE. 90
EOP 12.00' RT
STA. 52+71.44 RTE. 90
SHLDR. 16.00' RT
STA. 52+31.10 RTE. 90, 80.00' RT
STA. 3001+09.87 RAMP 3, 94.00' RT

ROUTE 90
PI 61+39.27
PC 59+95.05
PCC 62+80.13
Δ 21° 22' 50.0" (LT)
D 7° 30' 00.0"
L 285.07'
T 144.21'
R 763.94'
SE 3.42%



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 3000.00'
SE 3.7%

STA. 44+25.00 RTE. 90
EOP 11.00' LT & RT
SHLDR. 13.00' LT & RT
STA. 43+25.00 RTE. 90
EOP 10.00' LT & RT
SHLDR. 12.00' LT & RT

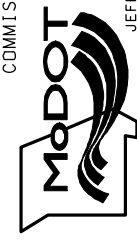
I-49 N.B.L. & S.B.L.;
RAMPS 1, 2, 3, & 4; ROUTE 90
PAVEMENT TRANSITION DETAILS
SPECIAL SHEET
SHEET 3 OF 16

"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.

"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.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



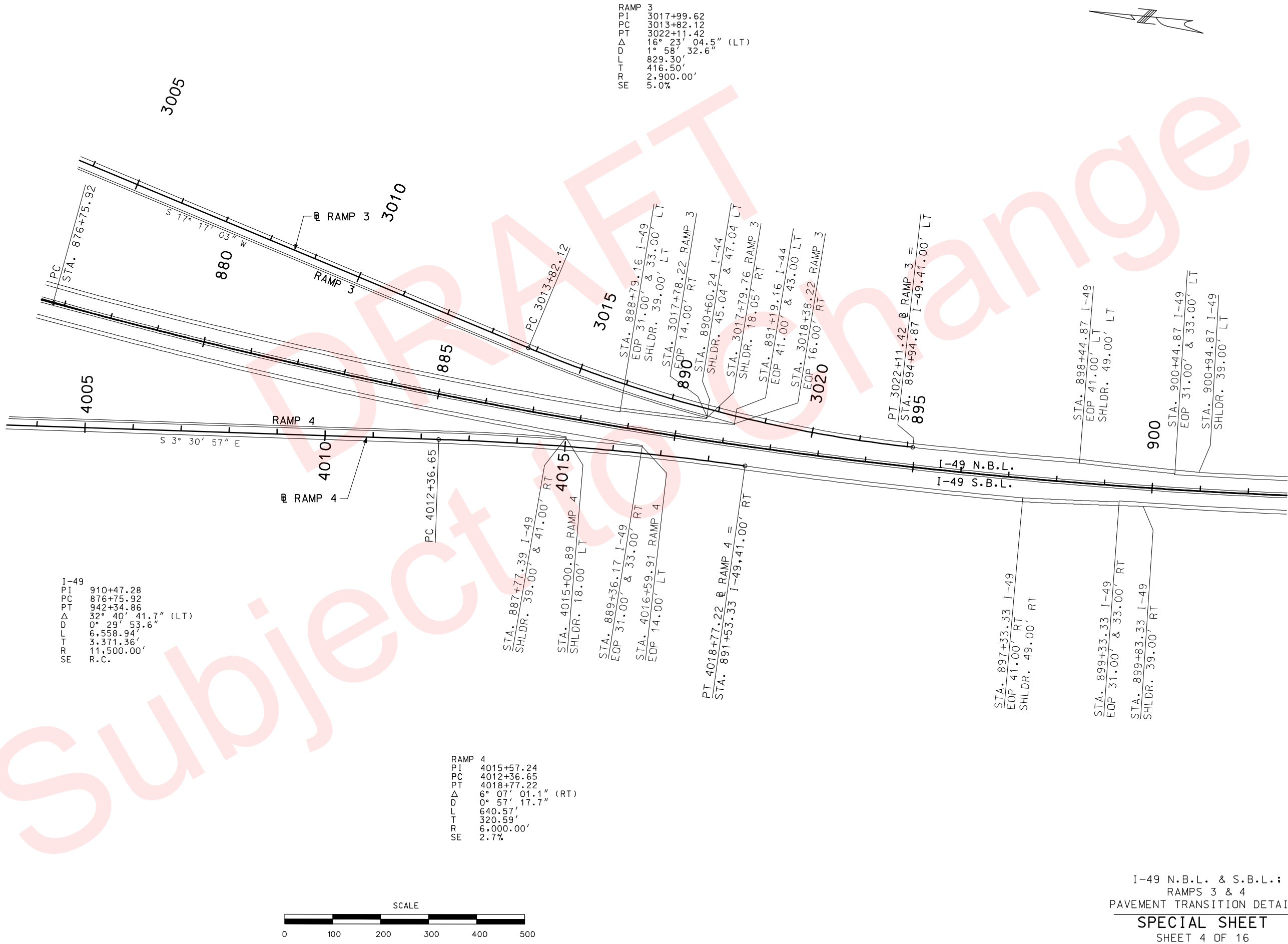
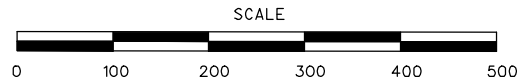
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

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

RAMP 3
PI 3017+99.62
PC 3013+82.12
PT 3022+11.42
 Δ 16° 23' 04.5" (LT)
D 188.58'
L 829.30'
T 416.50'
R 2,900.00'
SE 5.0%

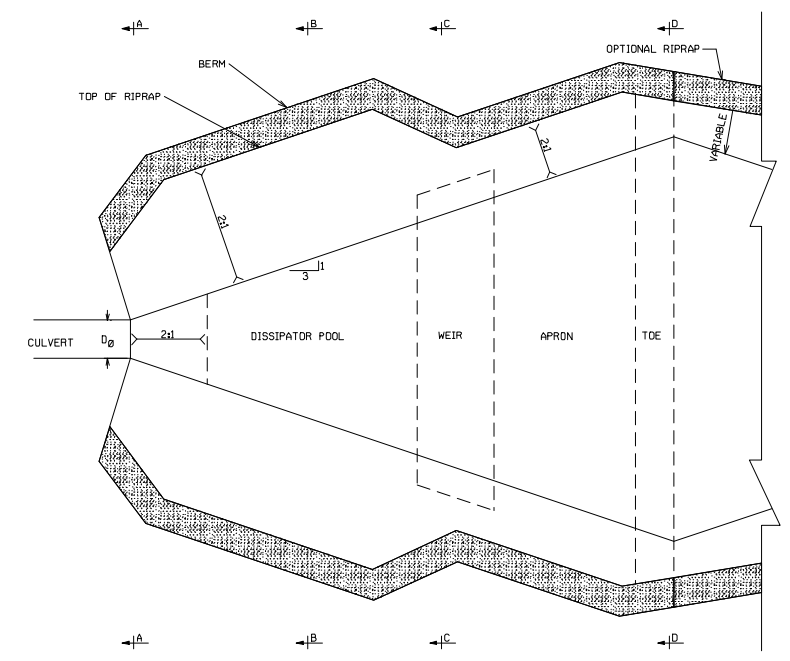
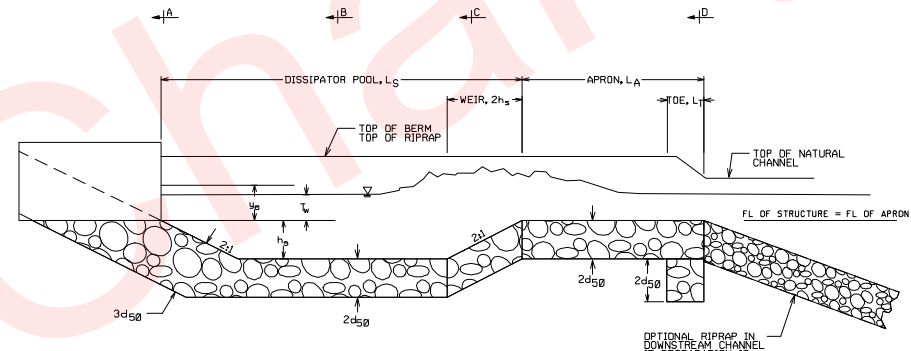
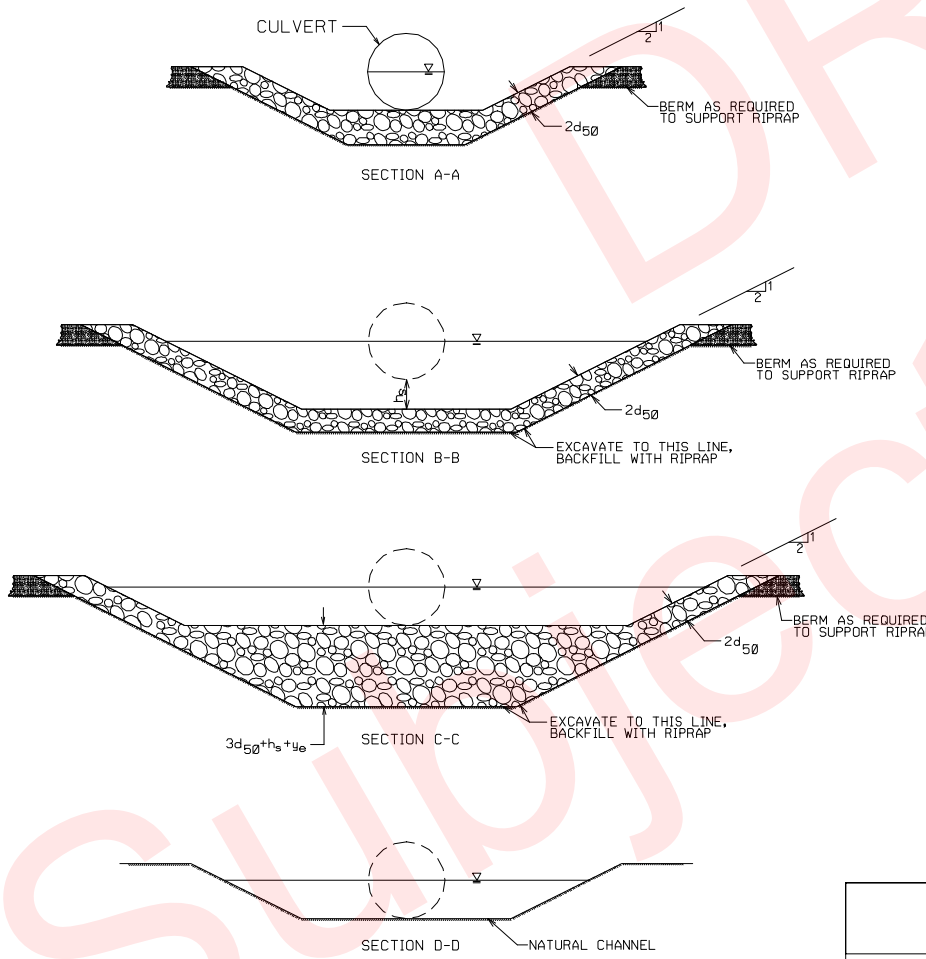
I-49
PT 910+47.28
PC 876+75.92
PT 942+34.86
 Δ 32° 40' 41.7" (LT)
D 6,558.94'
L 3,371.36'
T 11,500.00'
R.C.

RAMP 4
PI 4015+57.24
PC 4012+36.65
PT 4018+77.22
 Δ 6° 07' 01.1" (RT)
D 640.57'
L 320.59'
T 6,000.00'
R 2.7%



I-49 N.B.L. & S.B.L. ;
RAMPS 3 & 4
PAVEMENT TRANSITION DETAILS
SPECIAL SHEET
SHEET 4 OF 16

RTE.	CULVERT DETAILS		BASIN DIMENSIONS						RIPRAP DIMENSIONS																		
	CENTERLINE STATION	CULVERT WIDTH DO	hs	Ye	TW	LS	LA	LT	DOWNSLOPE			DISSIPATOR POOL			WIER			APRON w/o TOE			TOE			SIDE SLOPES			
									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



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
SHEET 5 OF 16

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."
 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)
 MoDOT
 SPECIAL SHEET ENERGY DISSIPATOR SHEET 5 OF 16
 REV.

"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)

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

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 1 1/2", 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.

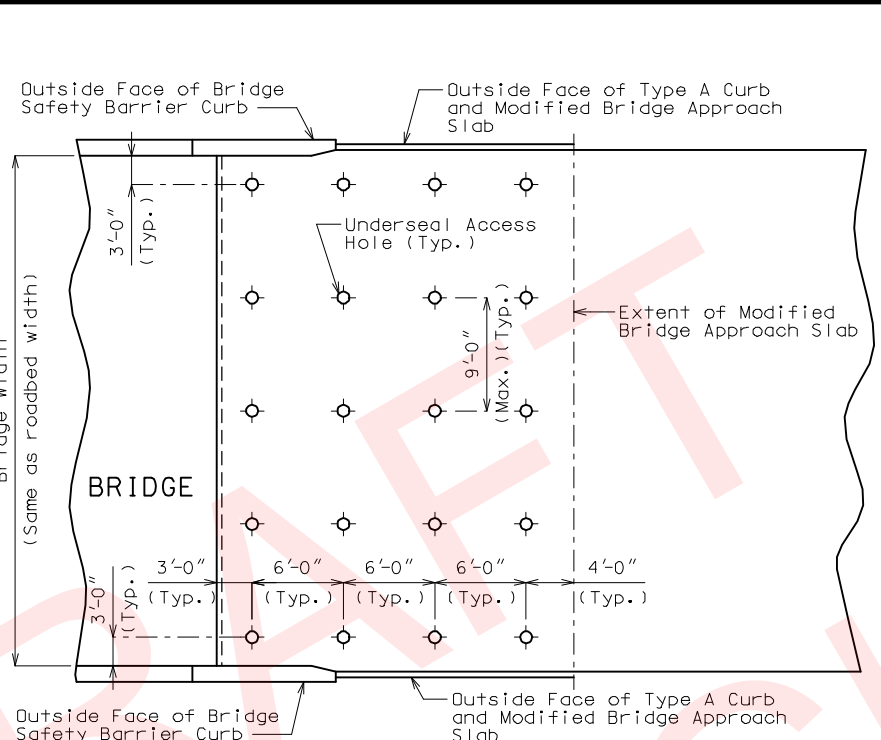
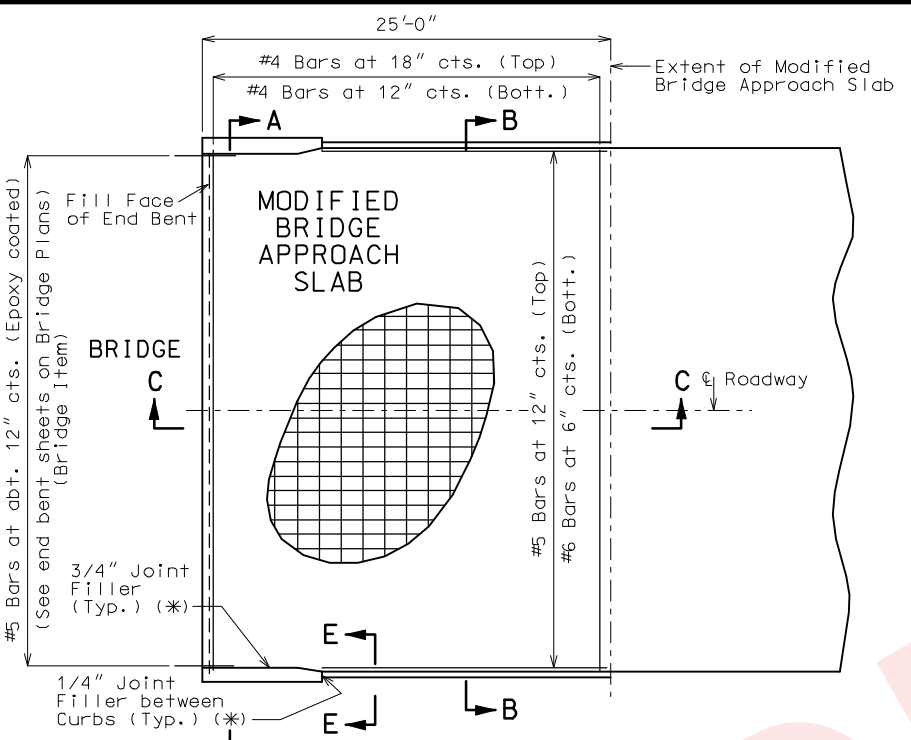
The contractor shall pour and satisfactorily finish the bridge or semi-deep slab before pouring the modified bridge approach slab.

Longitudinal 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.

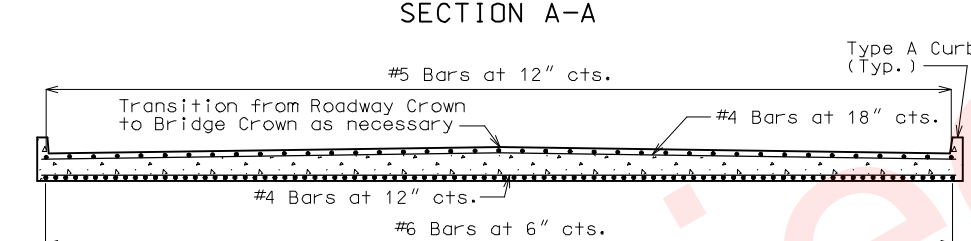
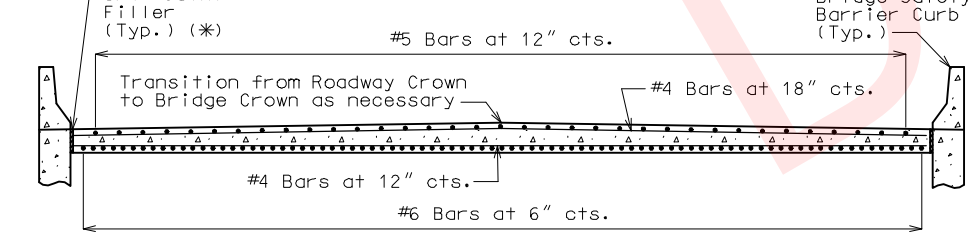
At the contractor's option, Grade 40 reinforcement may be substituted for the Grade 60 #5 dowel bars connecting the modified bridge approach slab to the bridge abutment. No additional payment will be made for this substitution.

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.



PART PLAN SHOWING REINFORCEMENT (SQUARE STRUCTURE SHOWN)

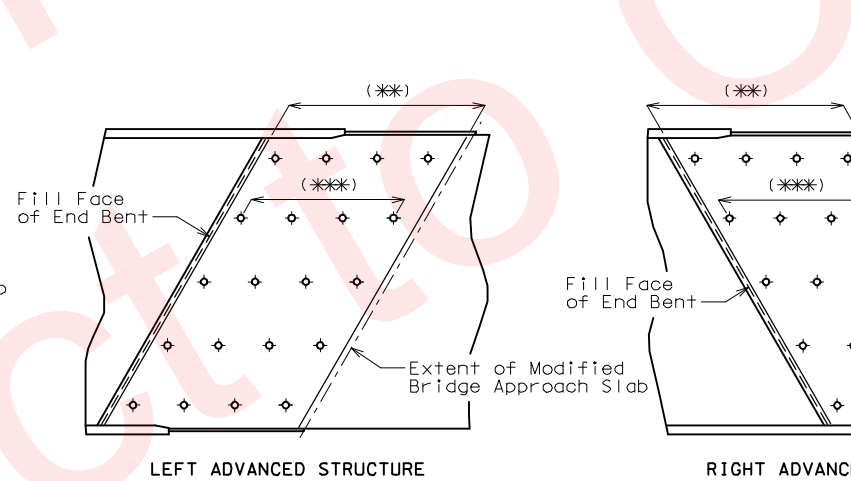
PART PLAN (SHOWING TYPICAL UNDERSEAL ACCESS HOLE LOCATIONS) (SQUARE STRUCTURE SHOWN)



SECTION A-A

SECTION B-B

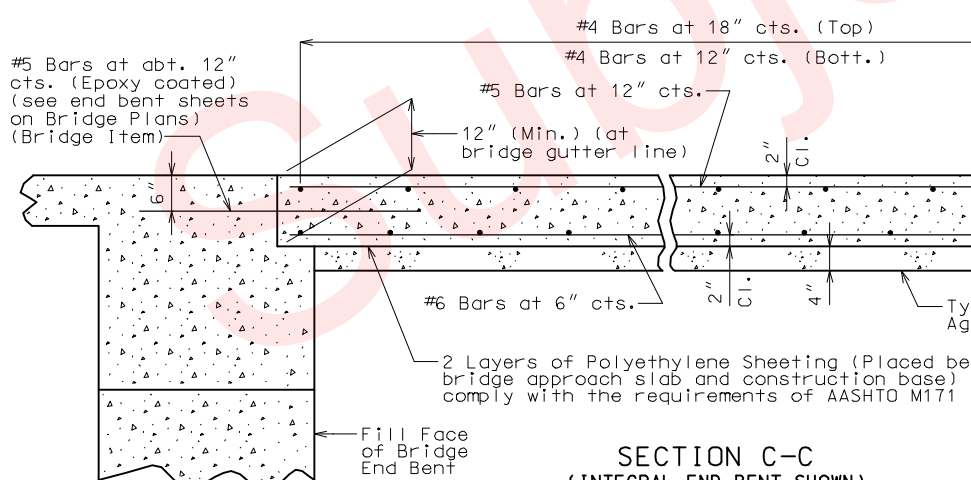
Note: With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.



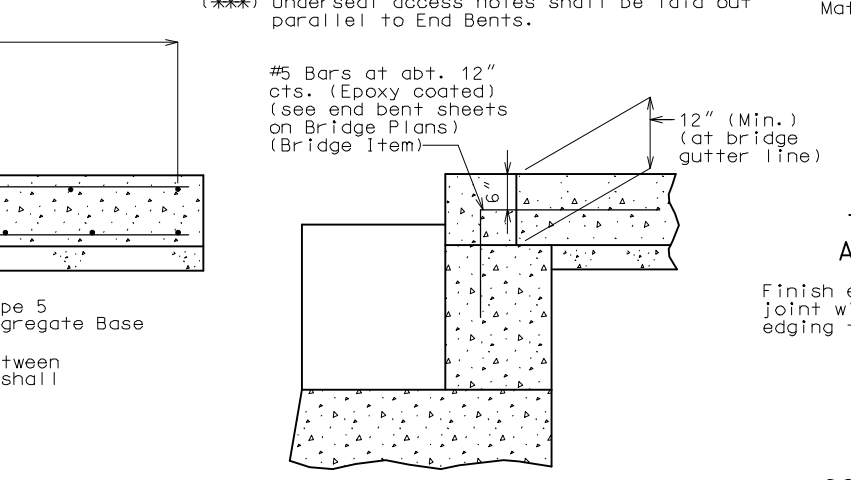
PART GENERAL PLANS OF SKEWED STRUCTURES

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

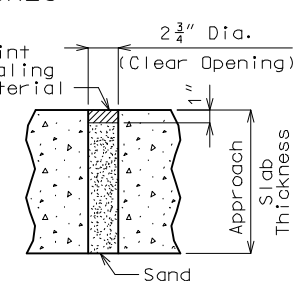
(***) Underseal access holes shall be laid out parallel to End Bents.



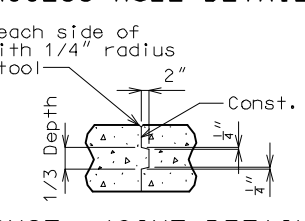
SECTION C-C (INTEGRAL END BENT SHOWN)



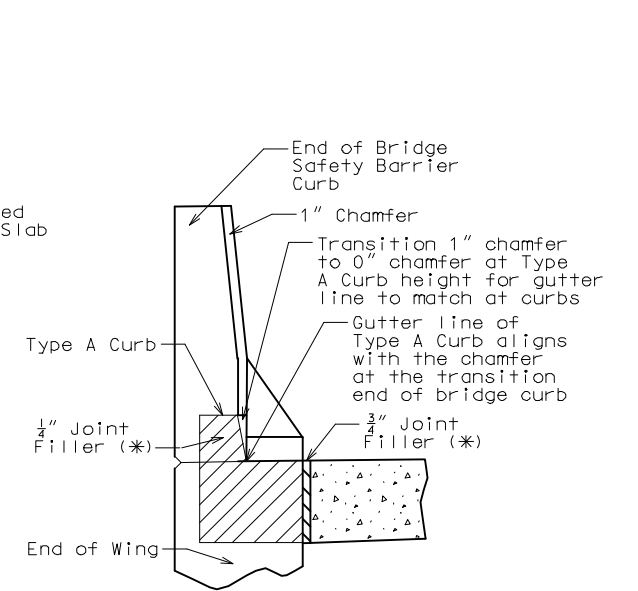
PART SECTION C-C (NON-INTEGRAL END BENT SHOWN)



TYPICAL UNDERSEAL ACCESS HOLE DETAIL



CONST. JOINT DETAIL (IF REQUIRED)



SECTION E-E (BETWEEN CURBS)

MODIFIED BRIDGE APPROACH

SPECIAL SHEET

SHEET 6 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.

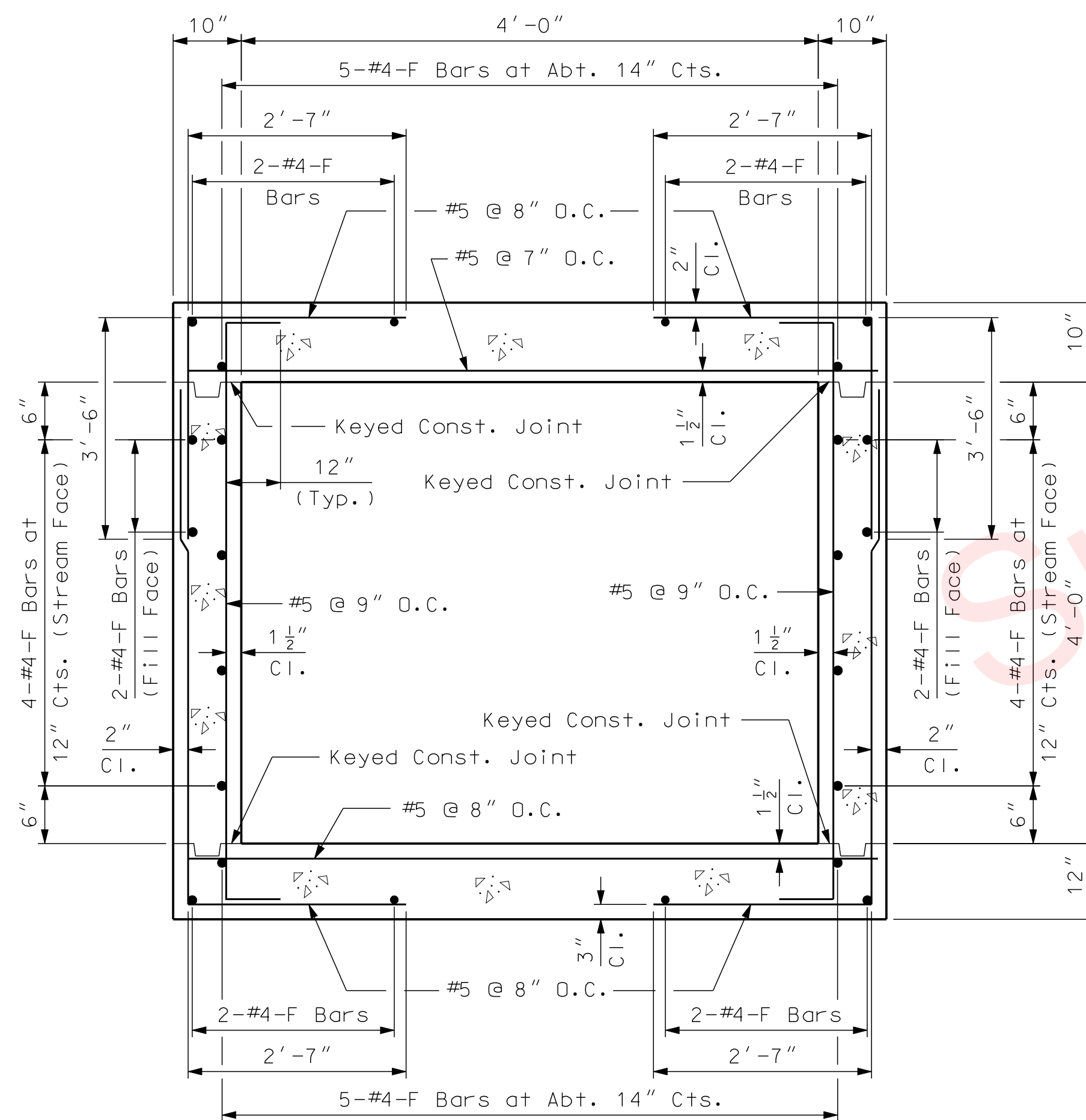
Precast Box Option:

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.

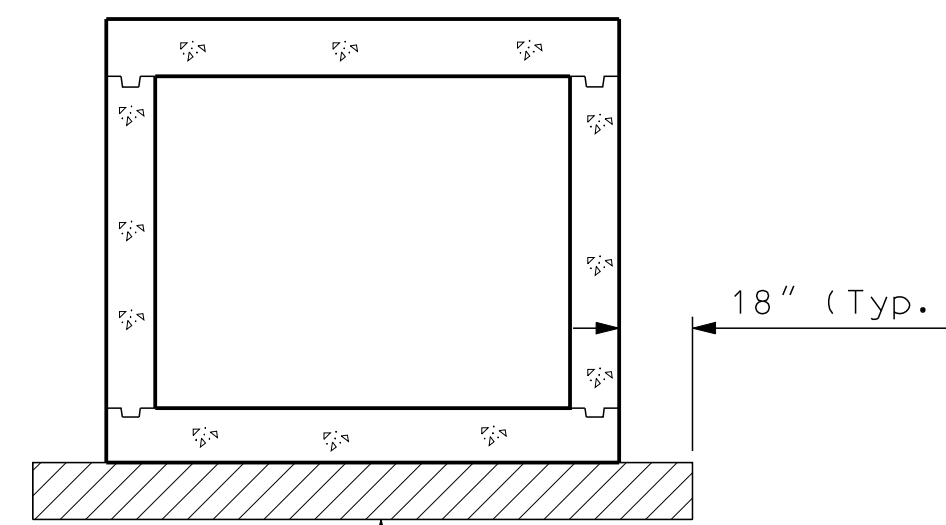
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

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



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

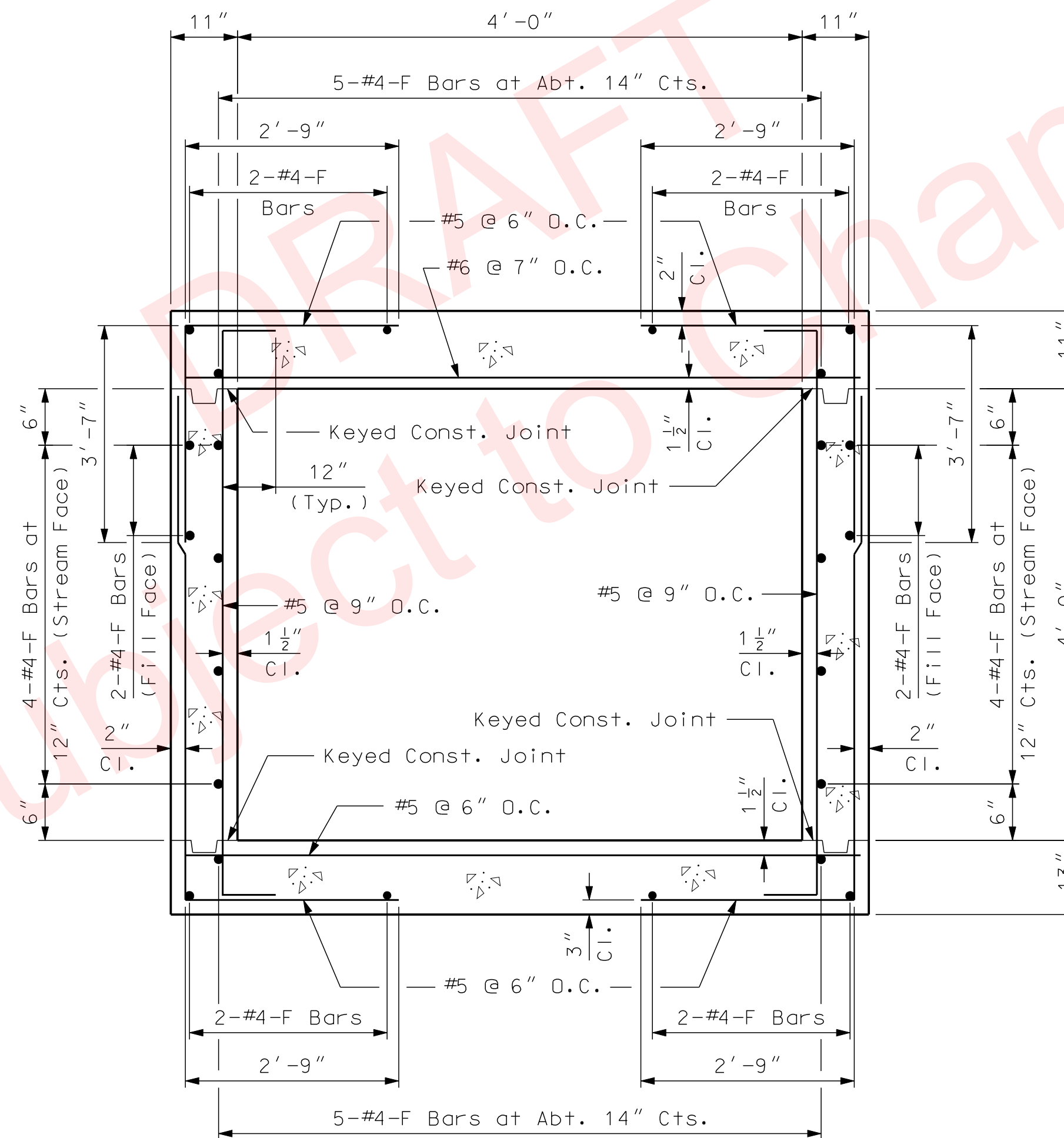
Design Fill = 35.25'
Concrete = 0.63 cu. yard/ft.
Reinforcing Steel = 100 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



**SECTION THRU BOX
(Normal to Structure)**

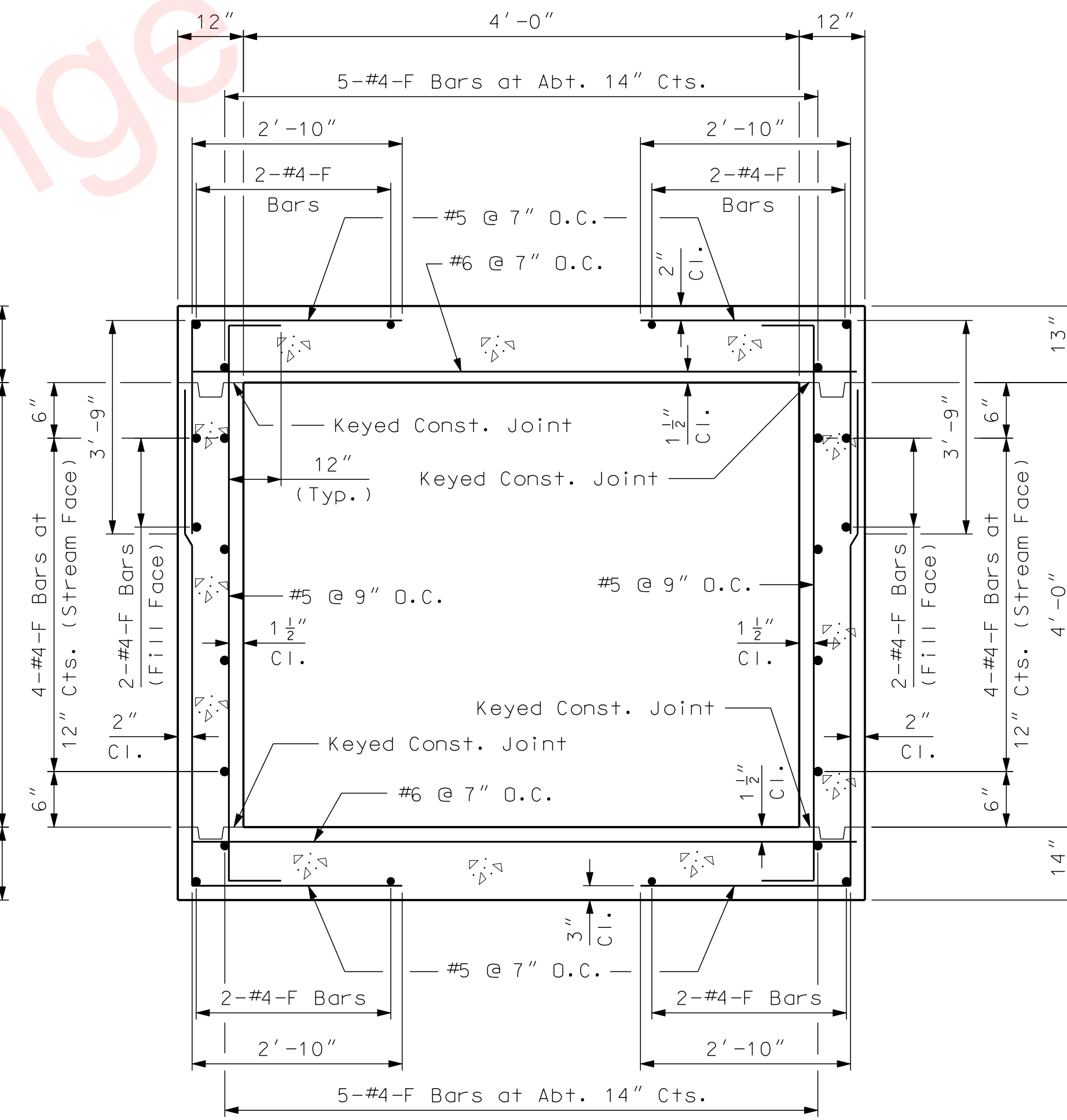
(* If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

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



**4' x 4' 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.



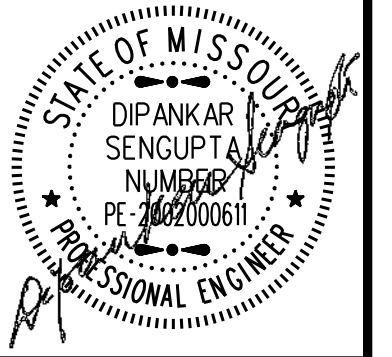
**4' x 4' BOX CULVERT SECTION
SECTIONS F, G & H**

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.

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.



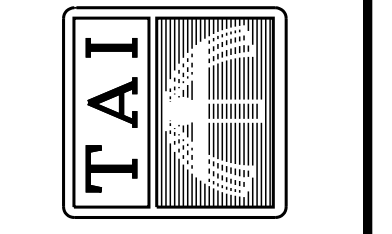
DATE 06-17-09	
DATE PREPARED 05/08/2009	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 47
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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, MANASSA CITY, VA 20108
OFFICE (816)-941-6100 FAX (816)-941-6102



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

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.

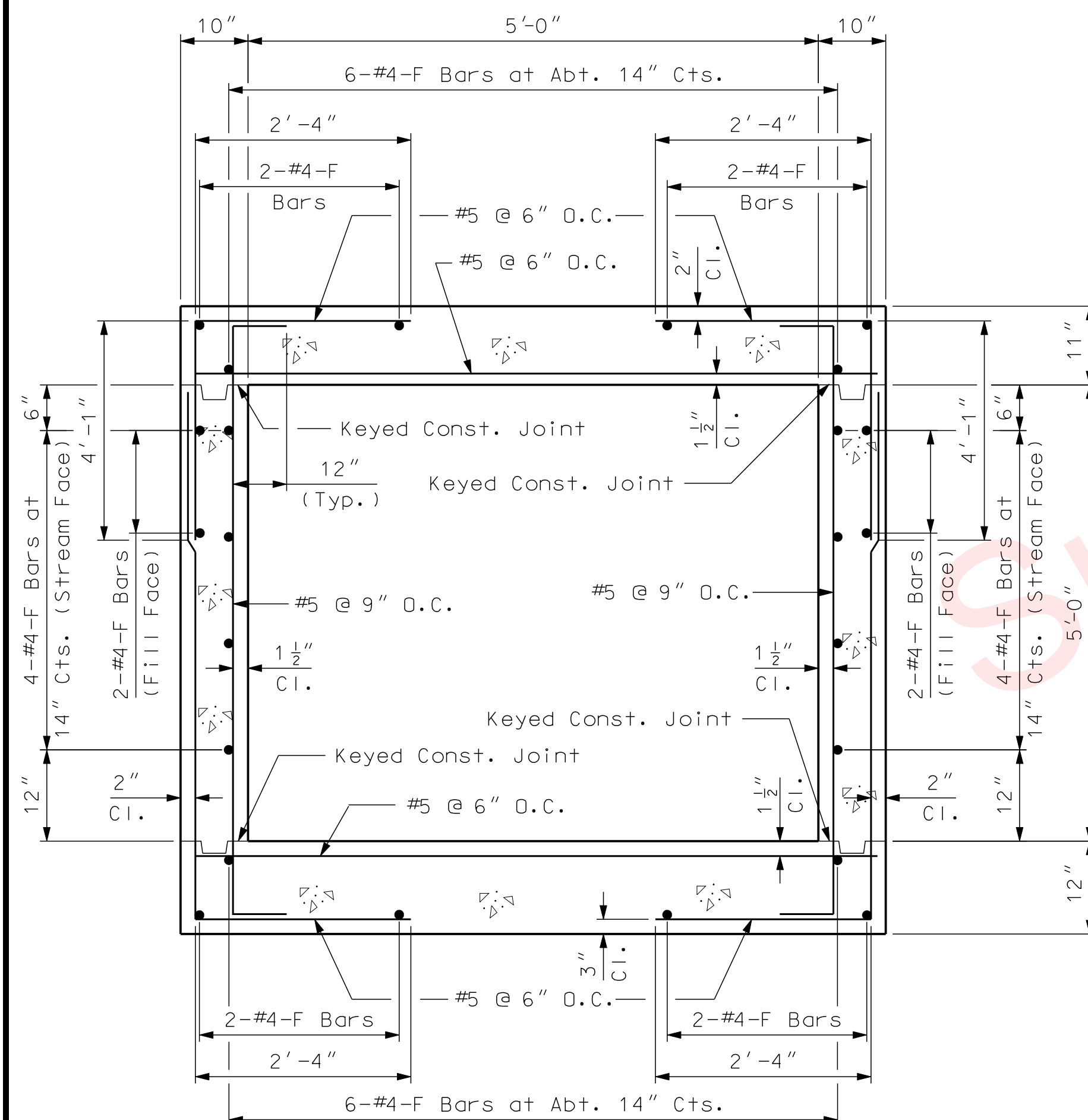
Precast Box Option:

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.

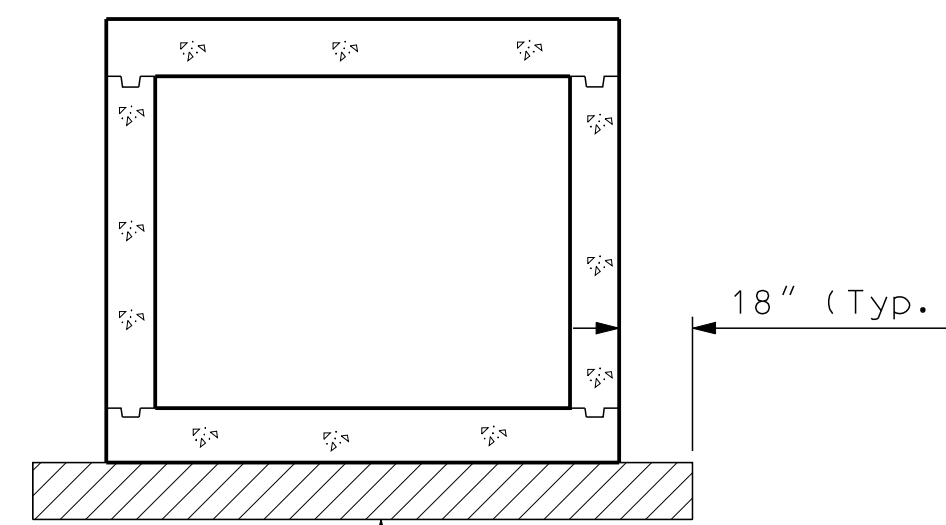
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

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



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

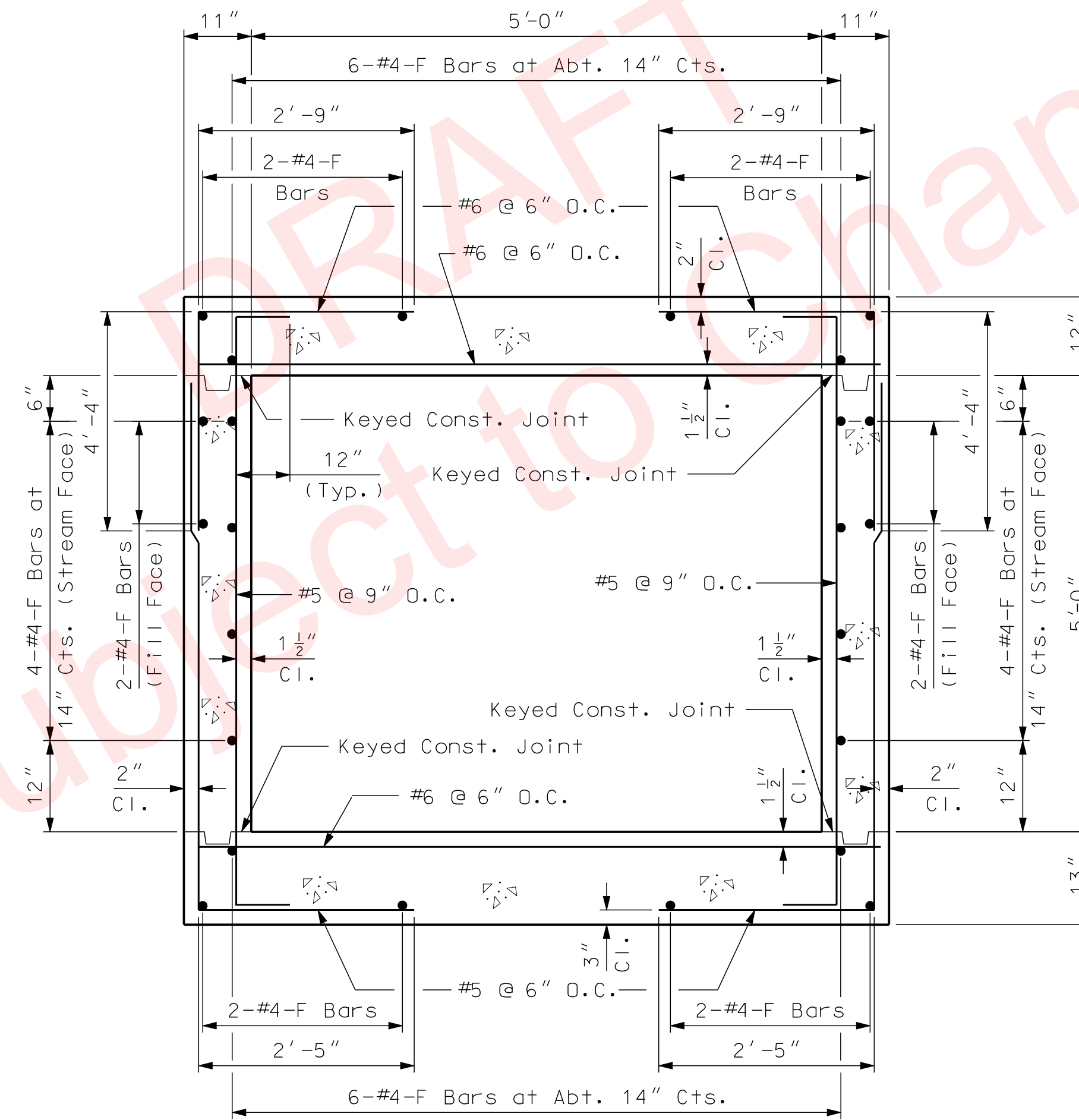
Design Fill = 34.50'
Concrete = 0.78 cu. yard/ft.
Reinforcing Steel = 131 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



**SECTION THRU BOX
(Normal to Structure)**

(*) If unsuitable material is encountered, excavation 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.



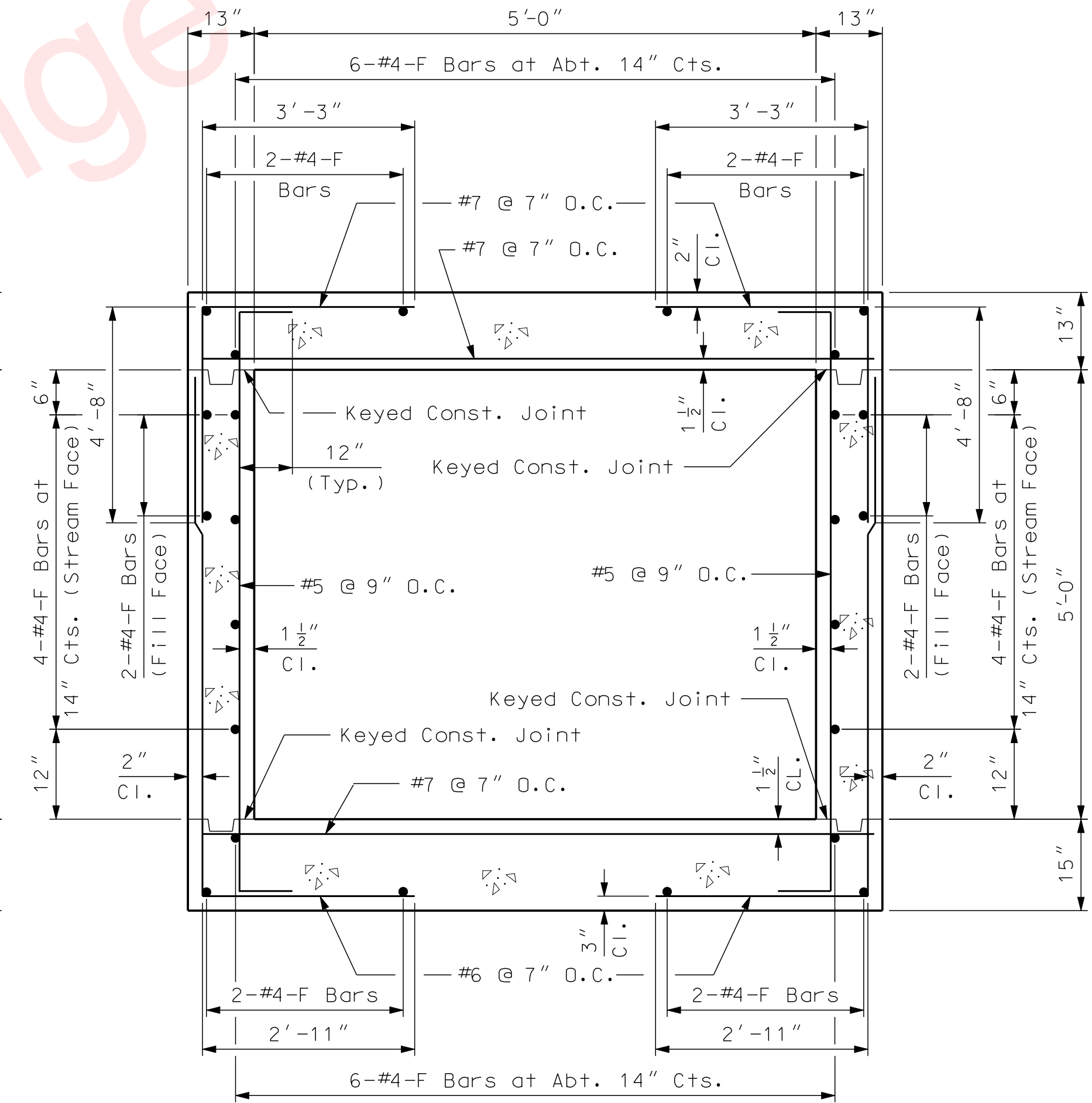
**5' x 5' BOX CULVERT SECTION
SECTIONS C & H**

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.

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.

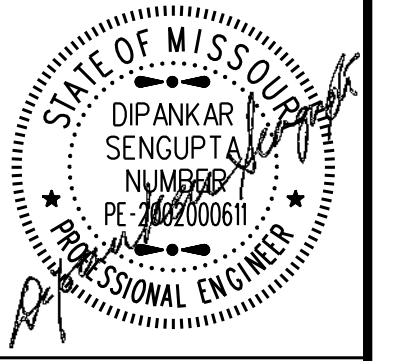


**5' x 5' BOX CULVERT SECTION
SECTIONS D, E, F & G**

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.



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

DATE

DATE

DATE

DATE

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DATE

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DATE

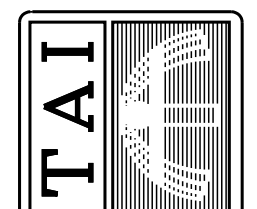
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITAL
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, MANASSA CITY, VA 20108
OFFICE (816)-941-6100 FAX (816)-941-6102



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) $f_y = 60,000$ 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.

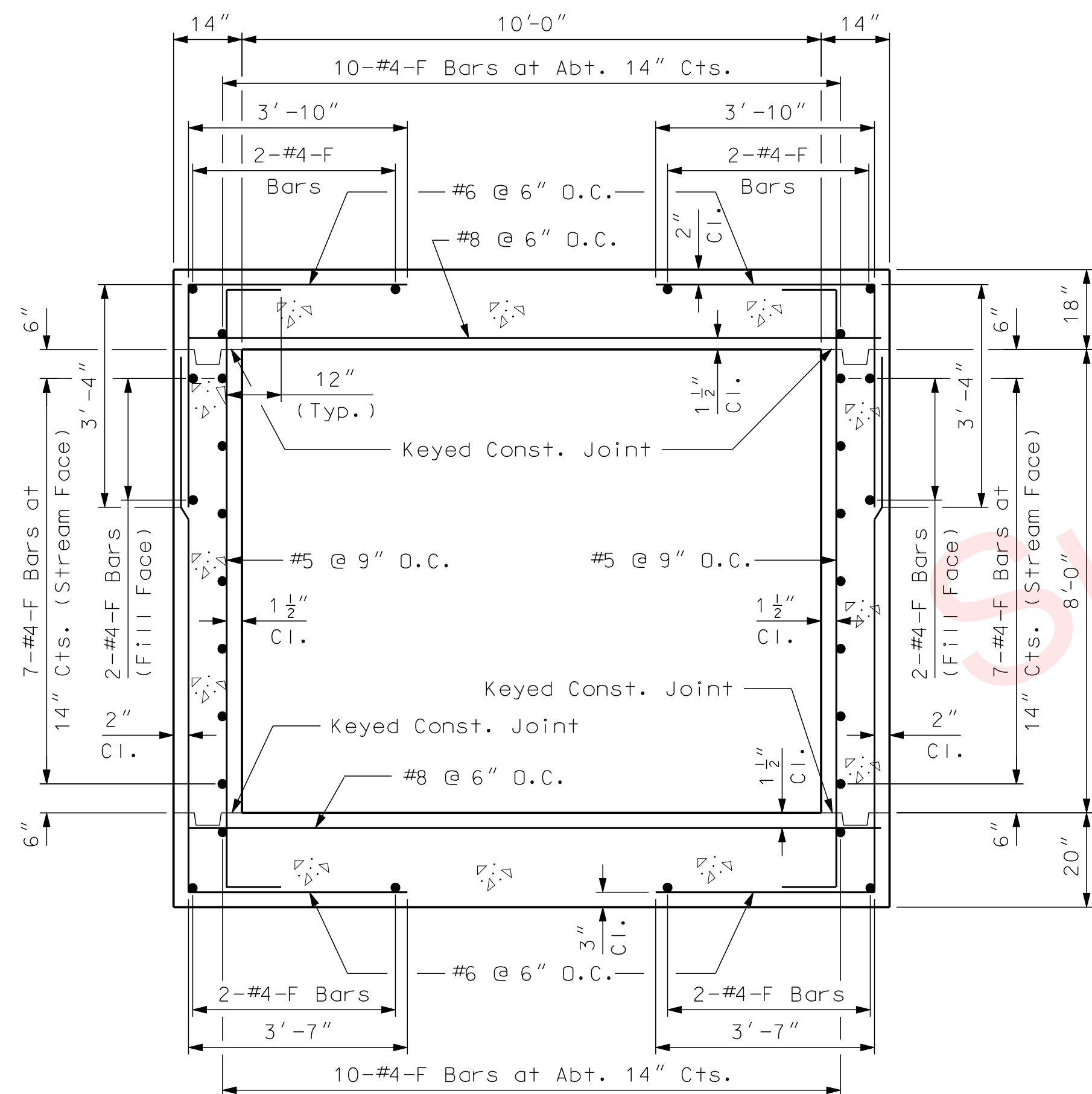
Contractor shall verify all dimensions in field before ordering new material.

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.

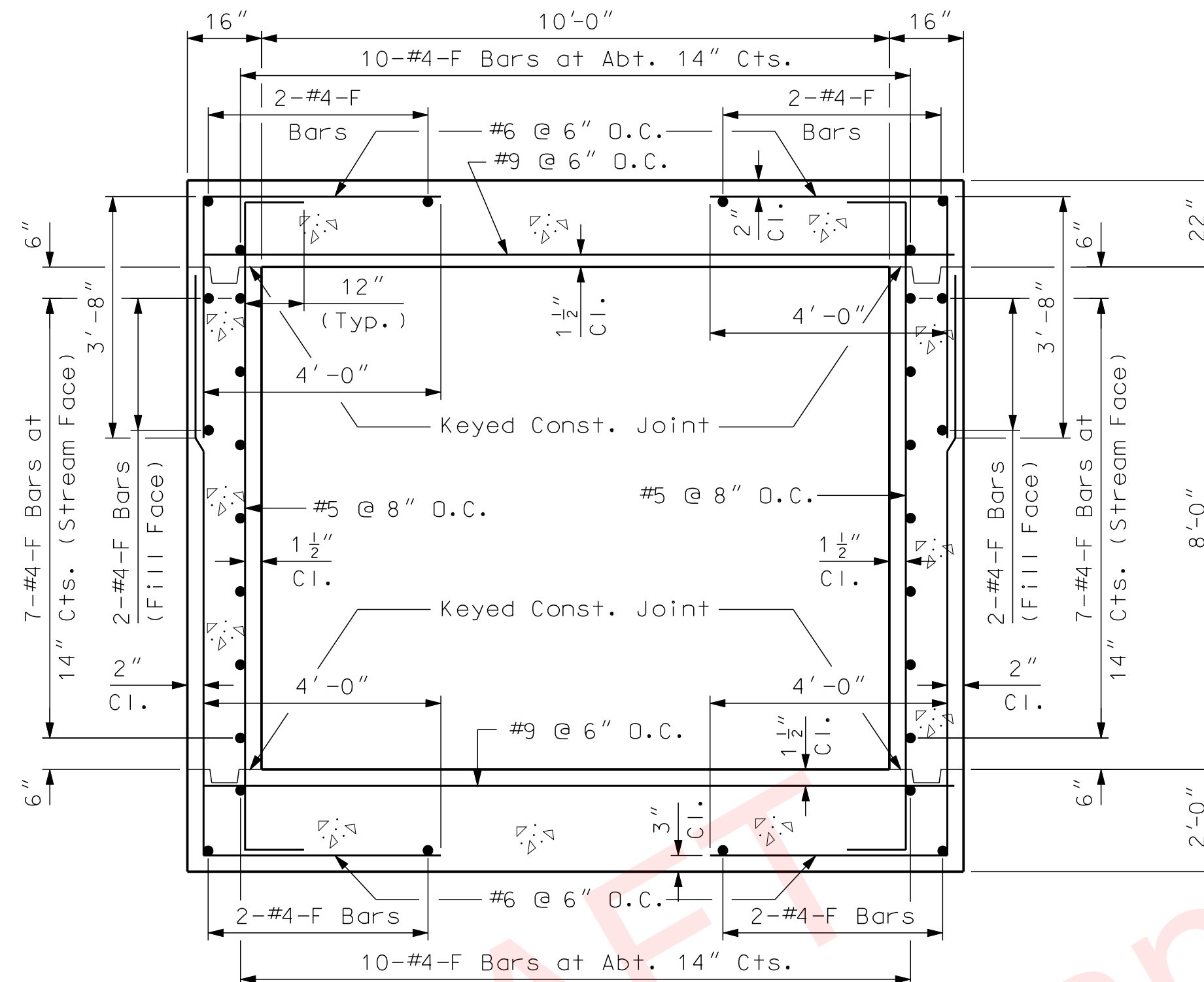
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

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



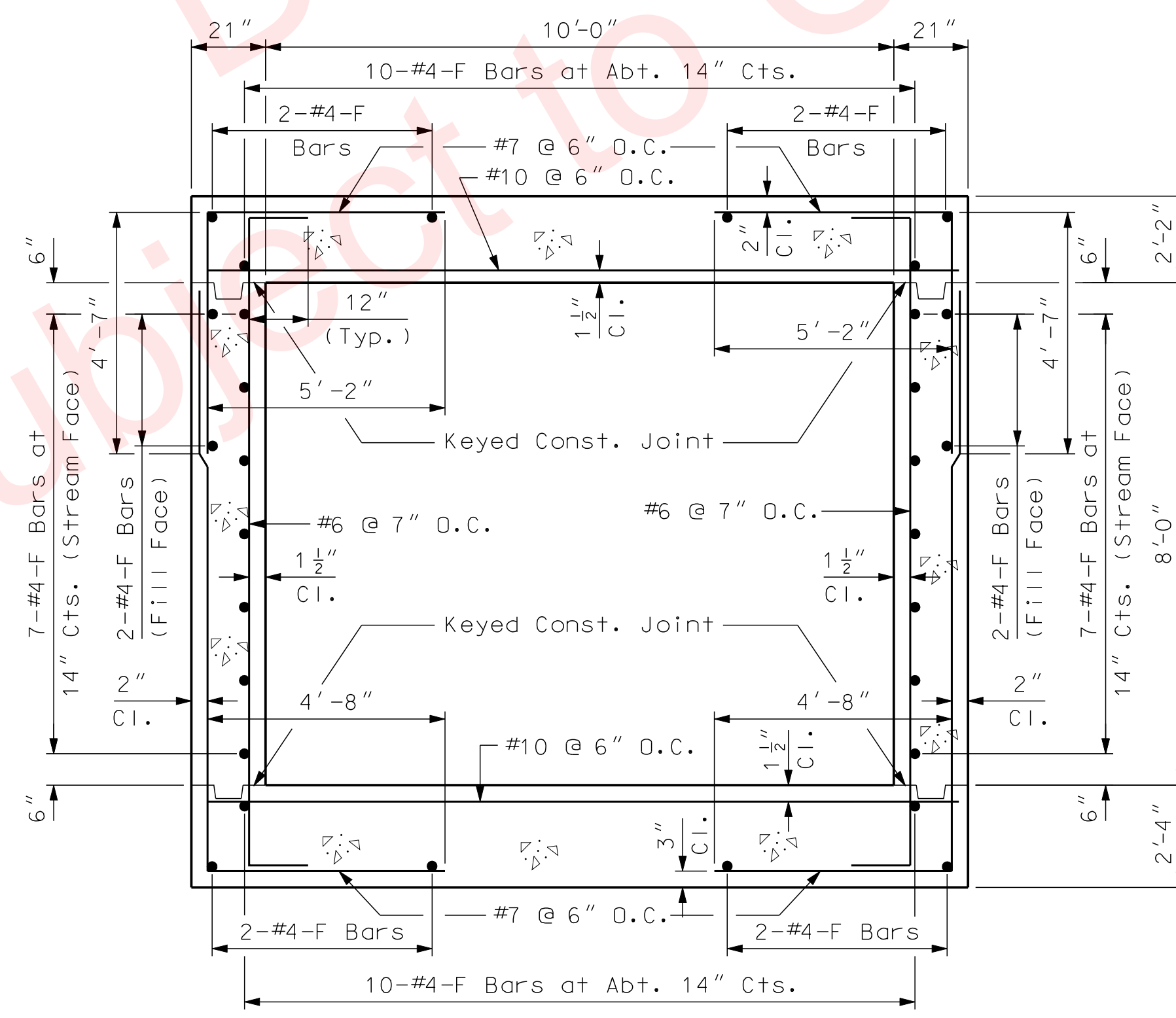
**10' x 8' BOX CULVERT SECTION
 SECTIONS A, J & K**

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 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.



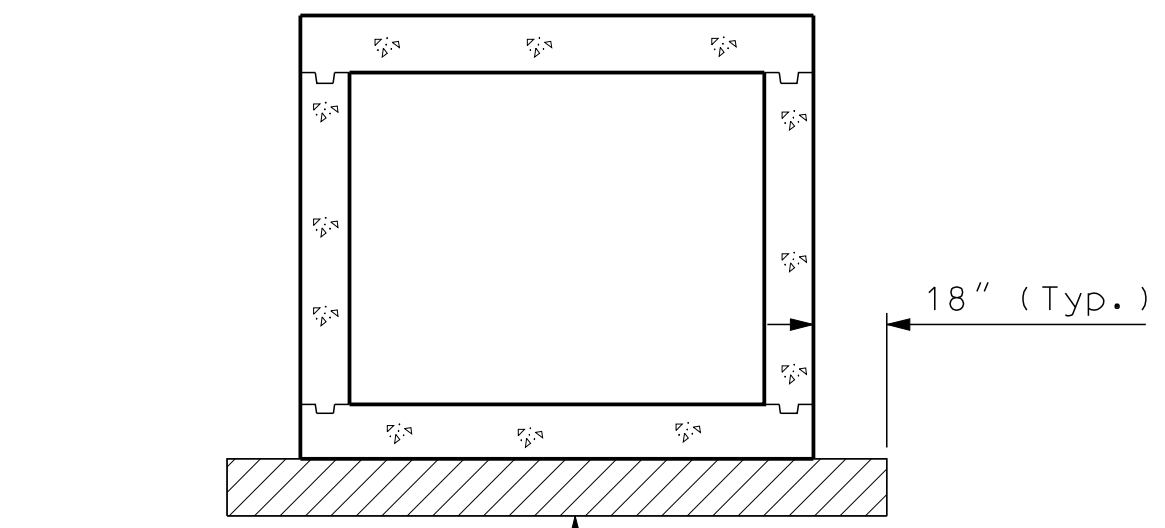
**10' x 8' BOX CULVERT SECTION
 SECTIONS C & H**

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.

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.



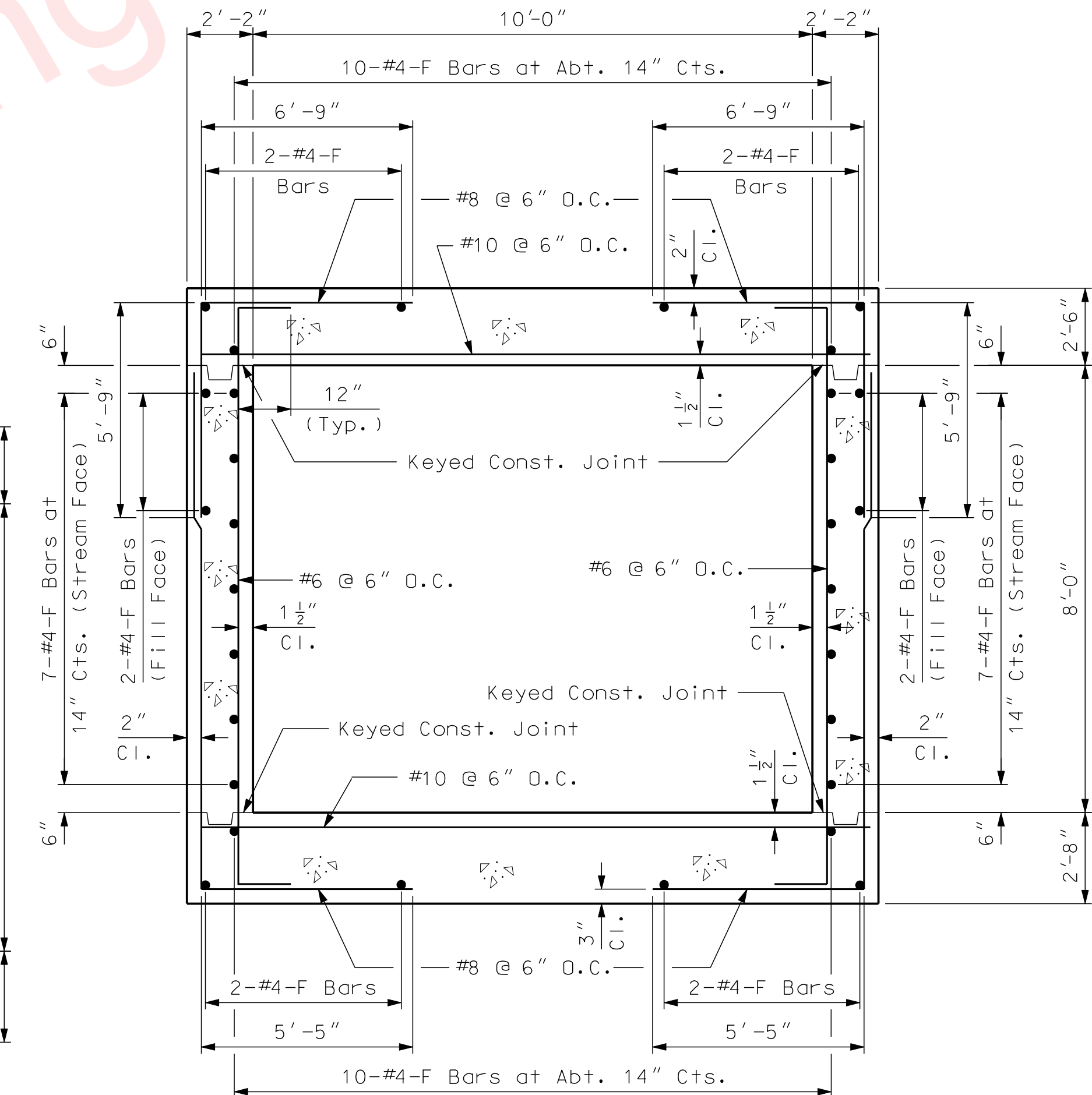
(*) Granular Backfill

SECTION THRU BOX

(Normal to Structure)

(*) If unsuitable material is encountered, excavation 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 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.



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.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL
 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.
 OFFICE (816) 941-6100

JEFFERSON CITY, MO 64145
 (816) 941-9410

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.

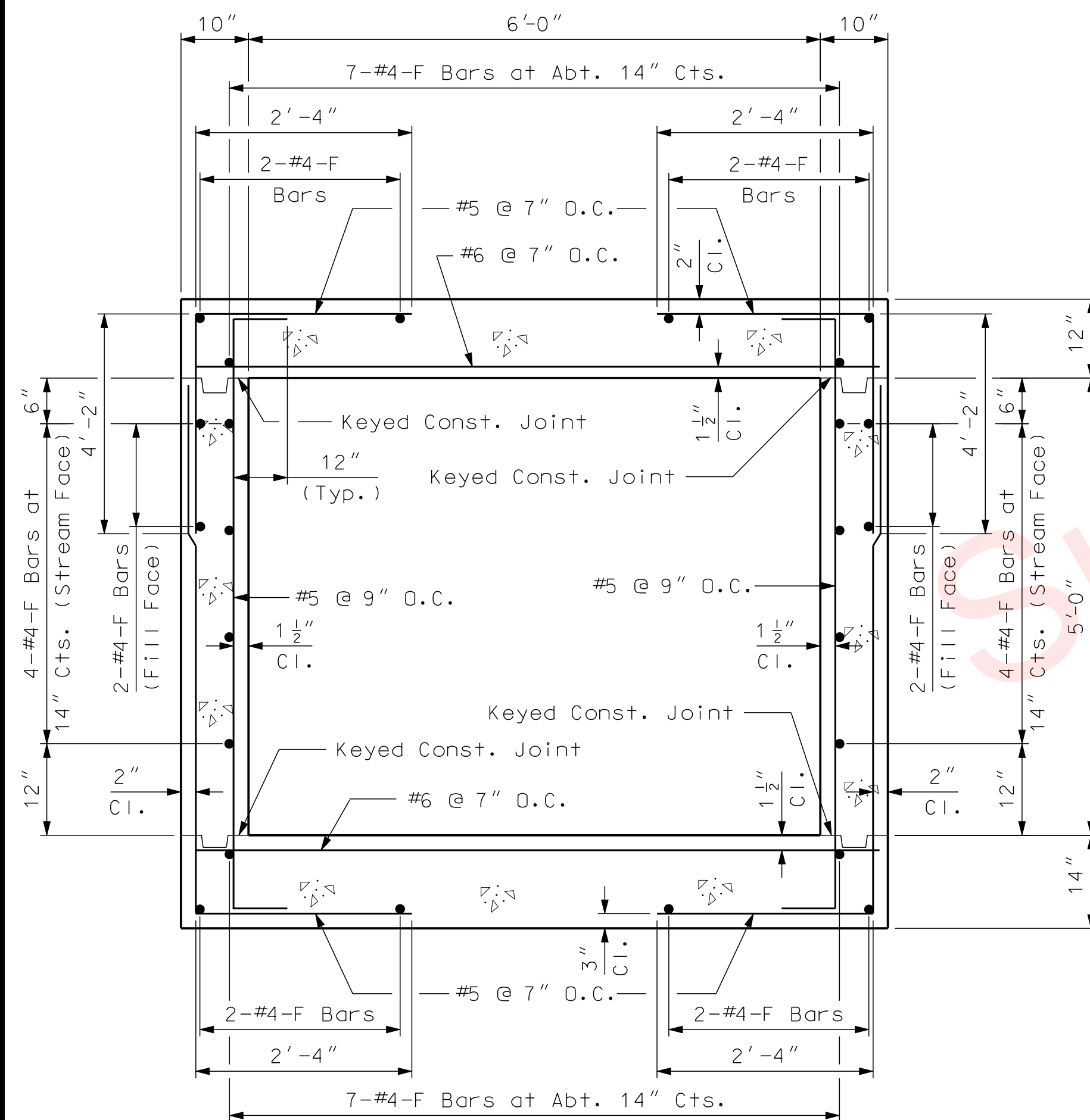
Precast Box Option:

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.

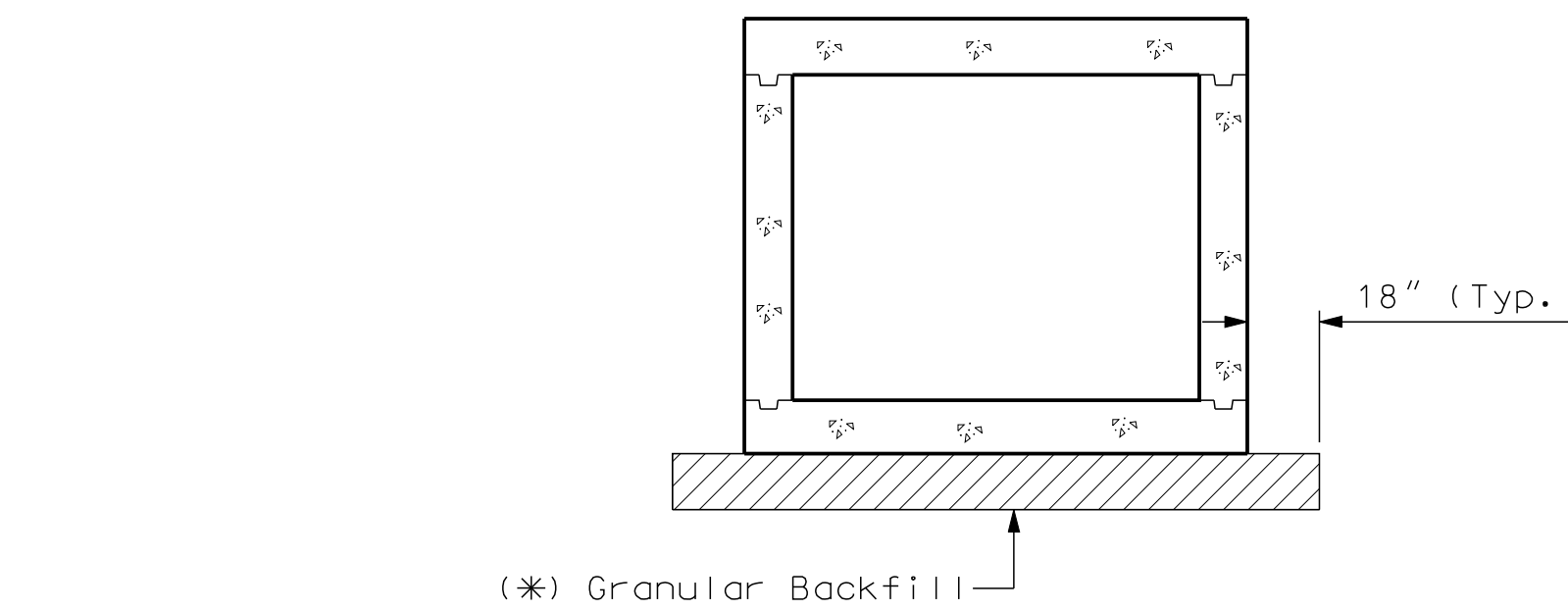
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

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



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

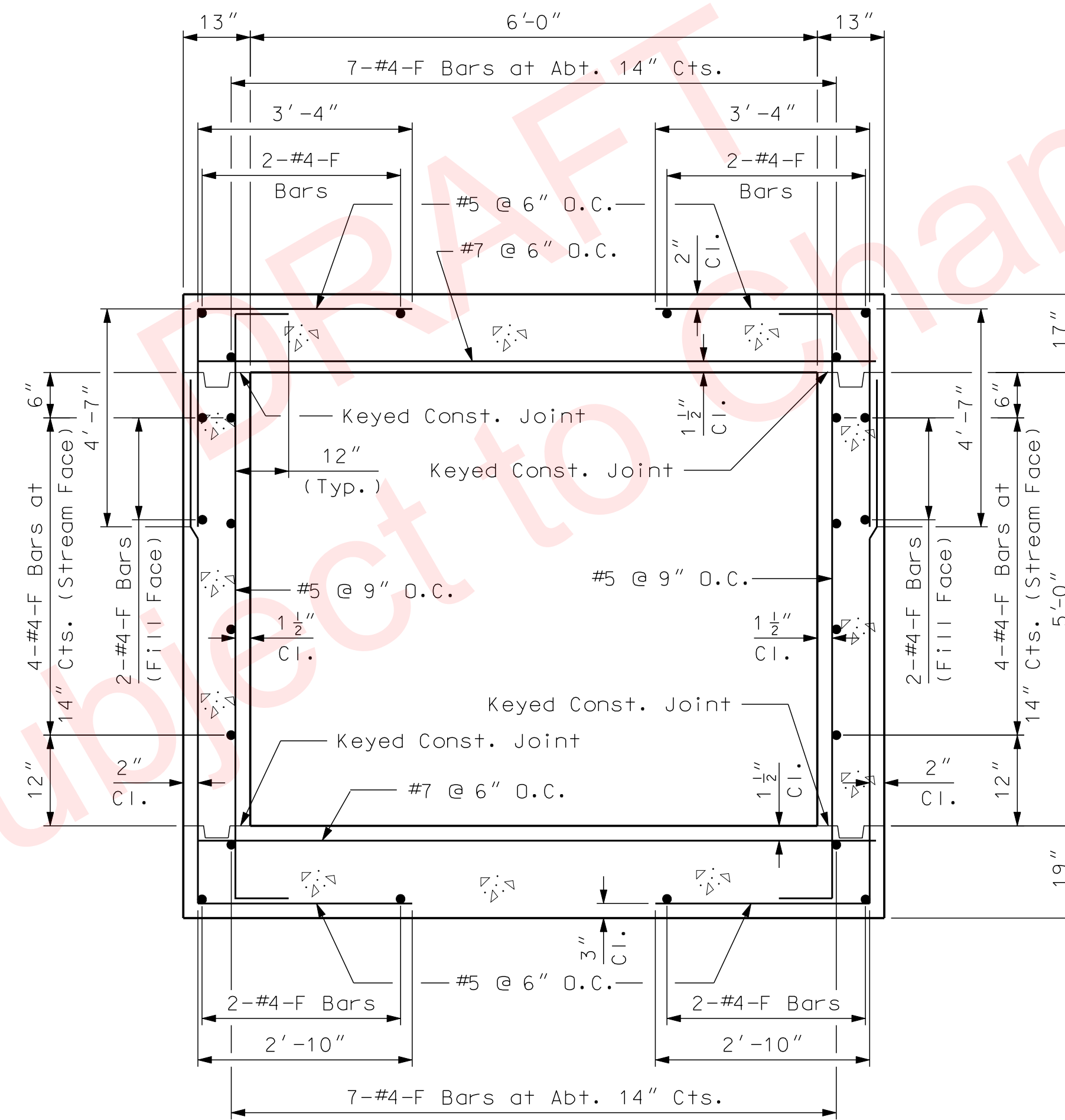
Design Fill = 30.25'
Concrete = 0.92 cu. yard/ft.
Reinforcing Steel = 137 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



**SECTION THRU BOX
(Normal to Structure)**

(*) If unsuitable material is encountered, excavation 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.



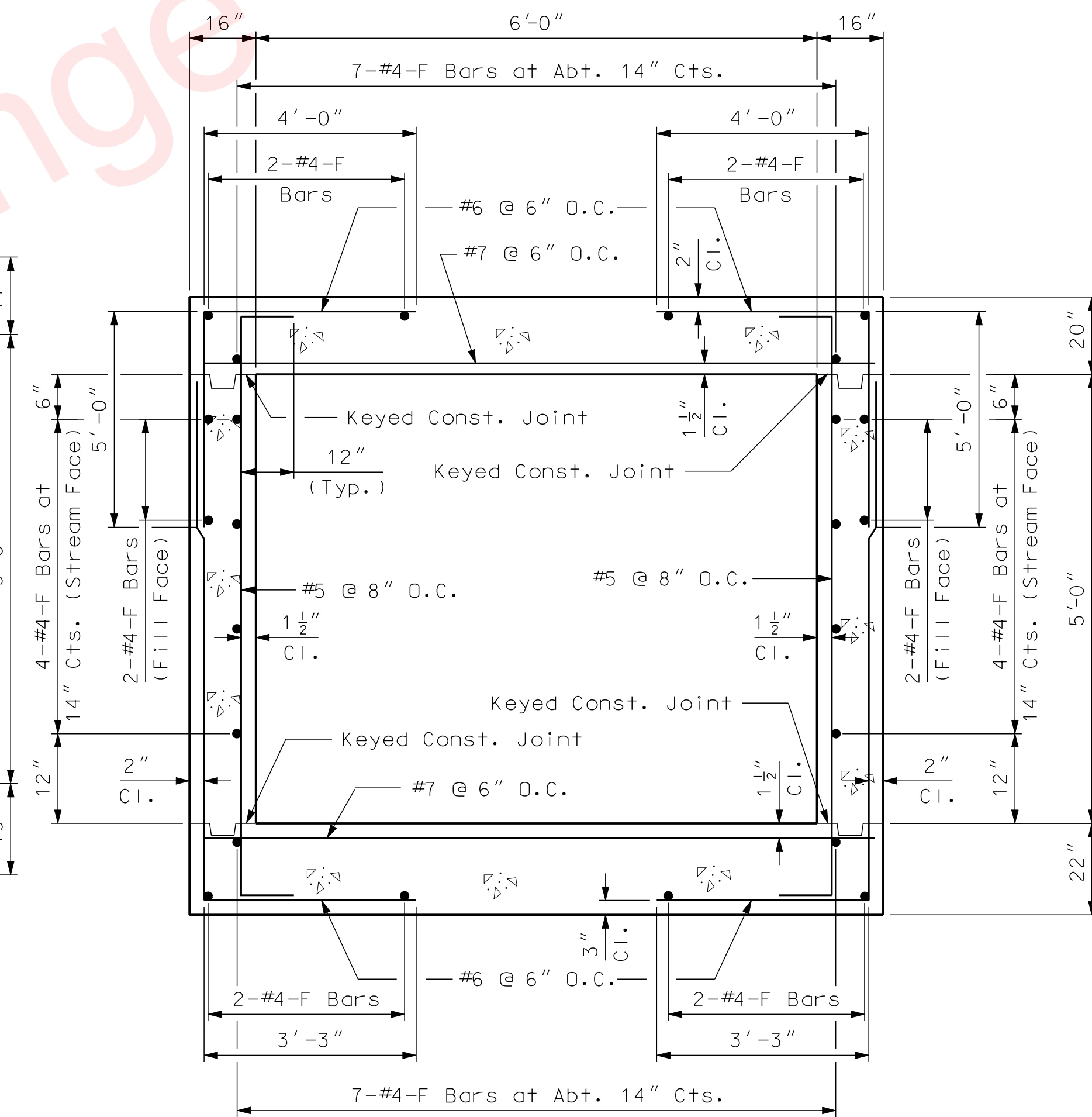
**6' x 5' BOX CULVERT SECTION
SECTIONS B, C, H, & I**

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.

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.



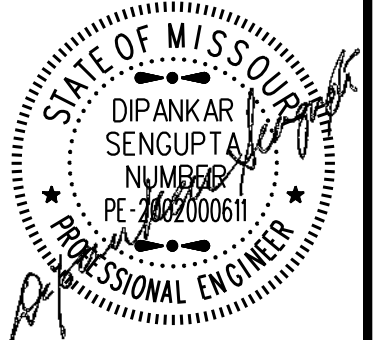
**6' x 5' BOX CULVERT SECTION
SECTIONS D, E, F, & G**

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**

**BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 11 OF 16**

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



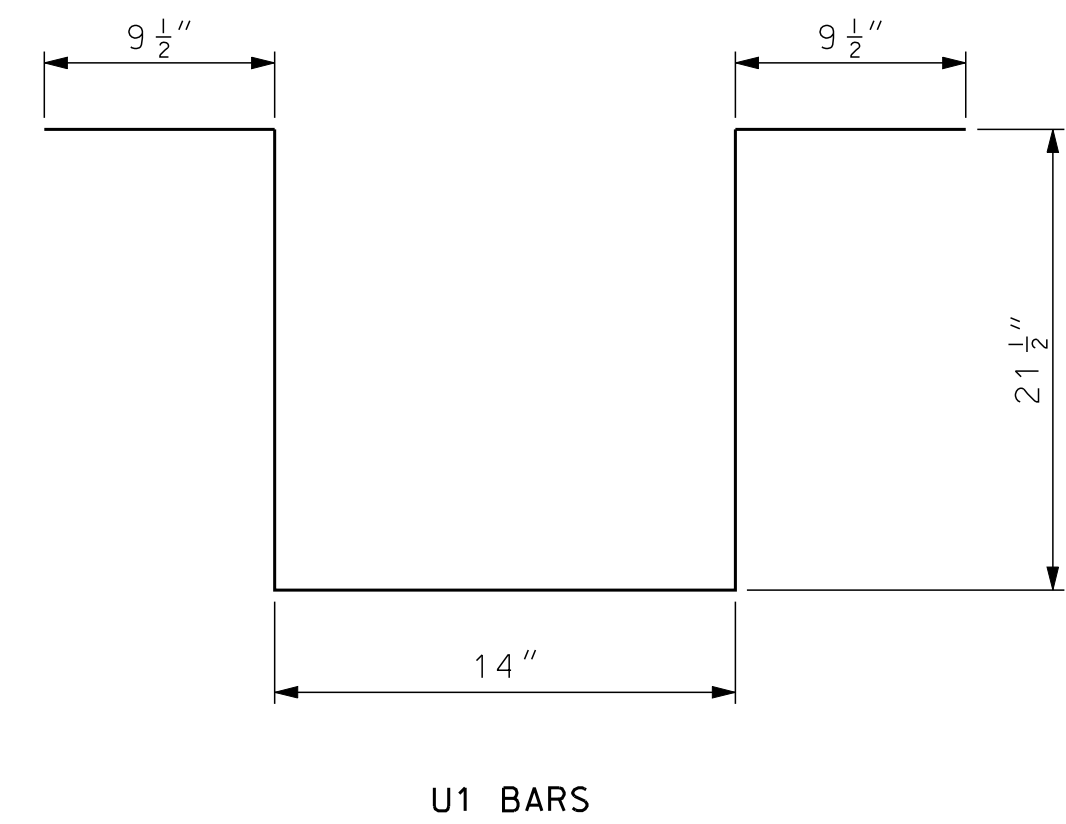
DATE 06-17-09	
DATE PREPARED 05/08/2009	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 51
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

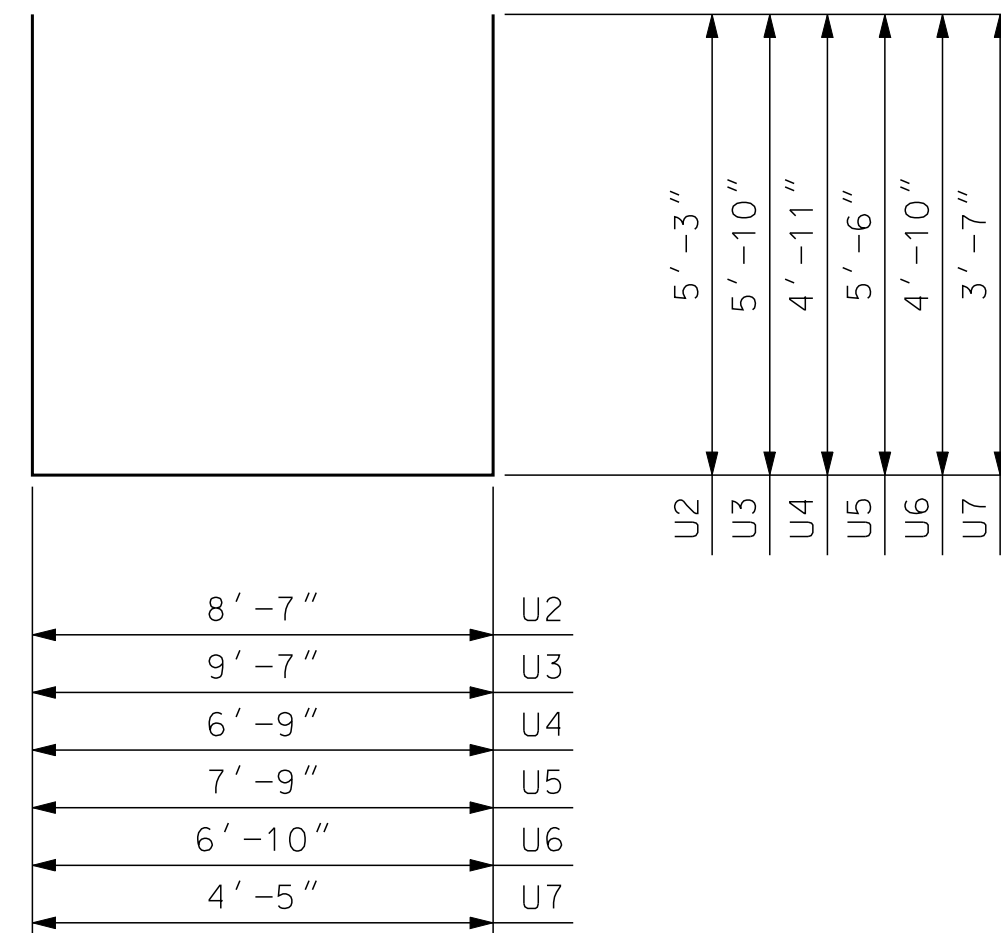
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

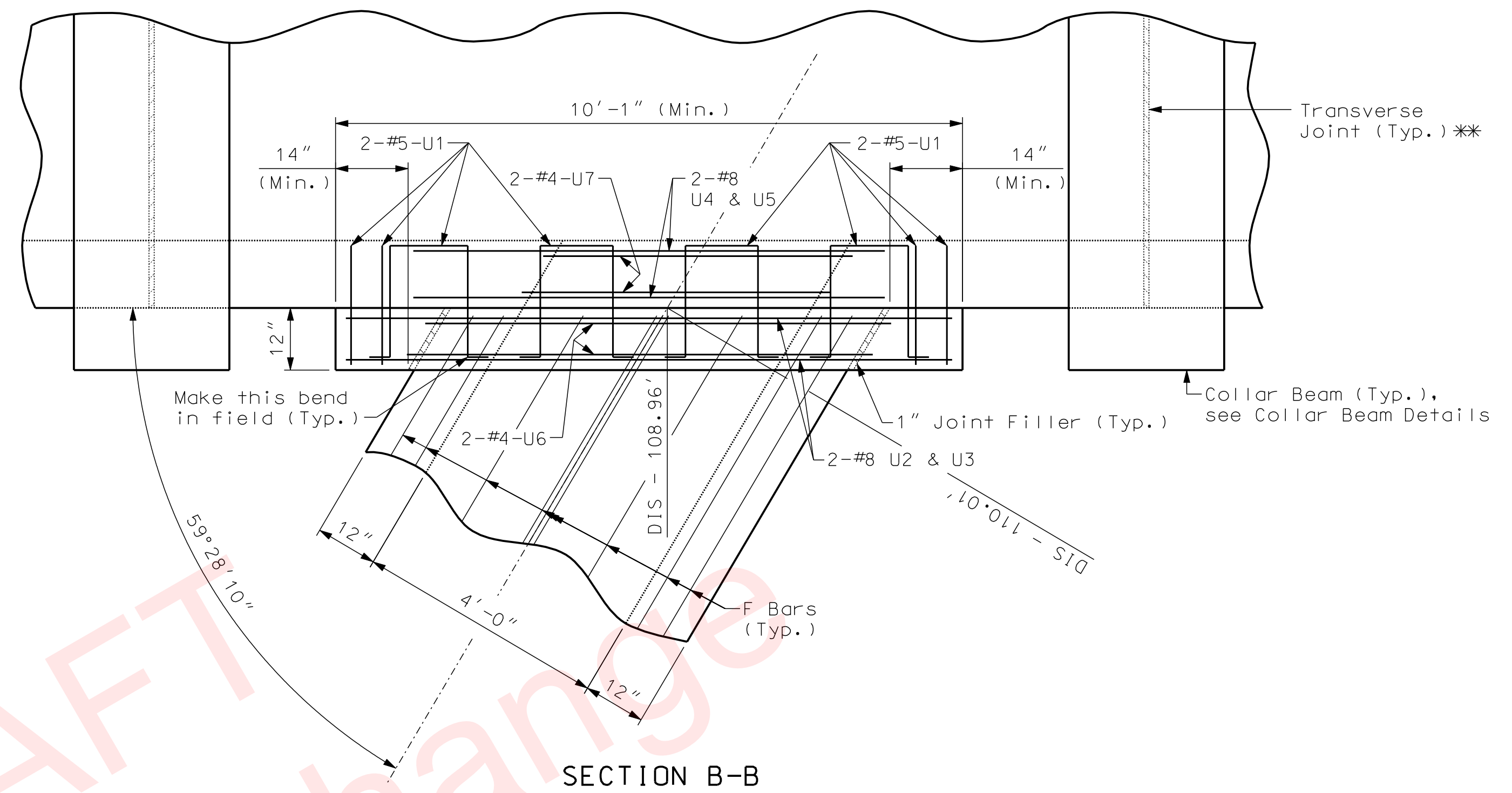
TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, MANASSA CITY, VA 20108
OFFICE (816)-941-6100 FAX (816)-941-6102



U1 BARS



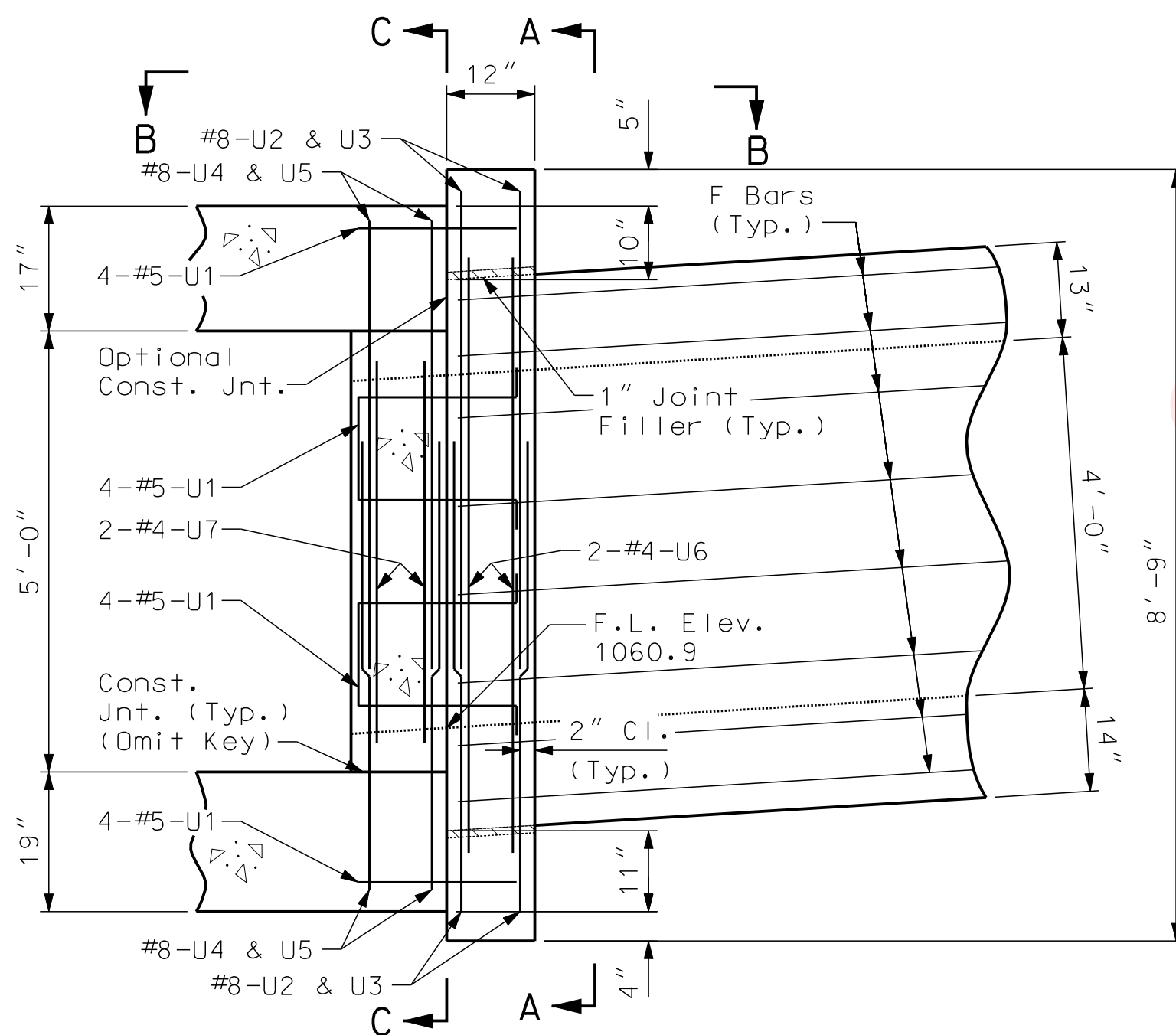
BENDING DIAGRAMS



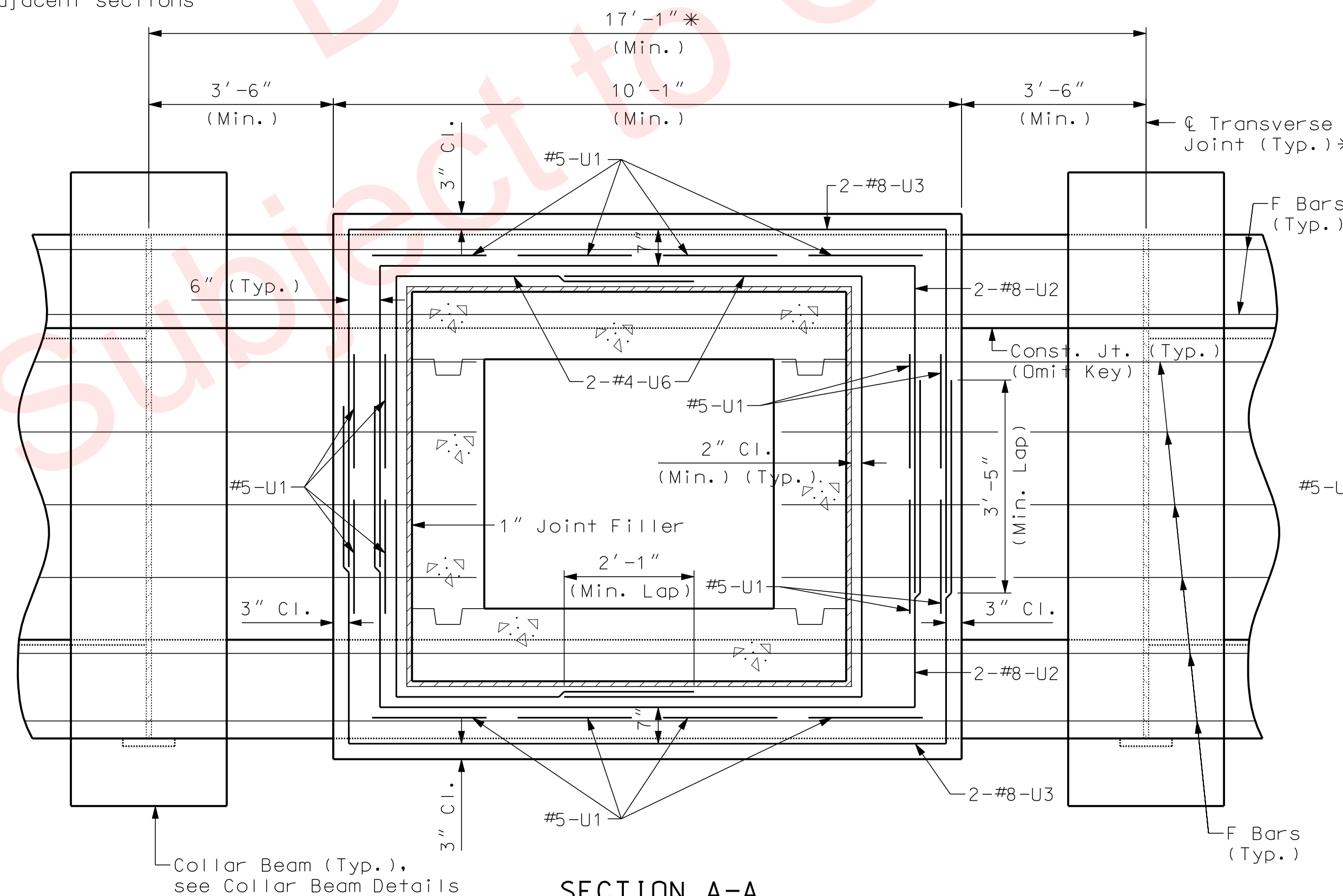
SECTION B-B

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

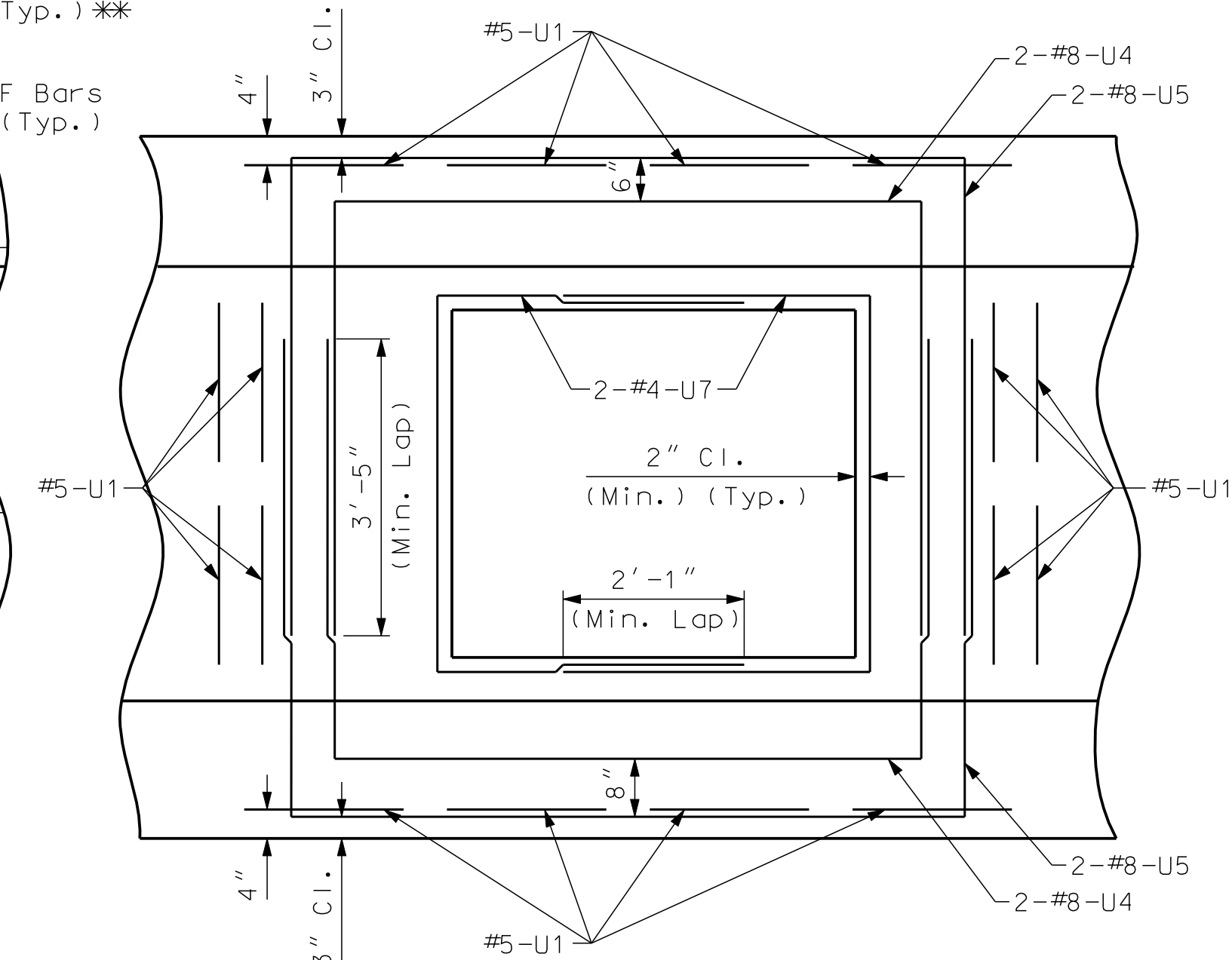
**This joint can be eliminated if adjacent sections are cast-in-place concrete.



DETAIL OF INTERSECTION



SECTION A-A



SECTION C-C

6' x 5' x 495' BOX CULVERT SECTION @ STA. 844+08.90 RTE. 1-49

QUANTITIES FOR ATTACHMENT

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

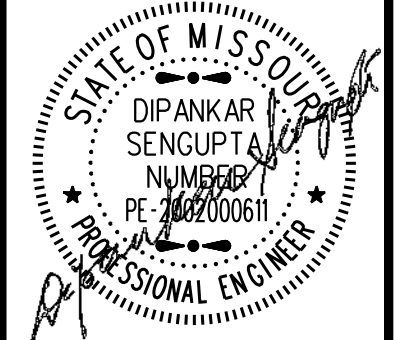
BOX CULVERT STRUCTURAL DETAILS
SHEET 12 OF 16

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.

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



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)

TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 1325th STREET, MANASSAS CITY, VA 20108
OFFICE (813)-941-6100

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) $f_y = 60,000$ 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.

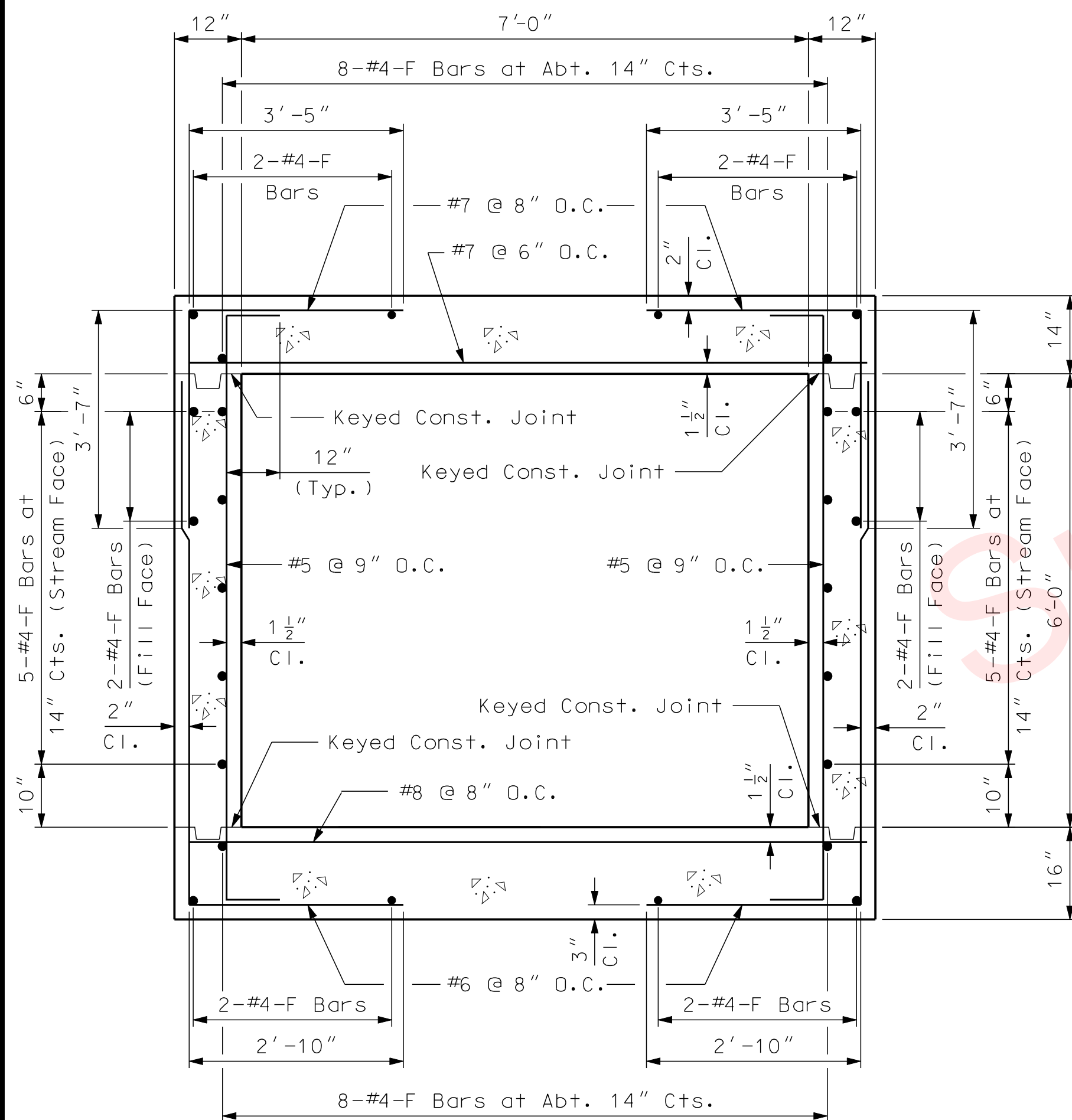
Contractor shall verify all dimensions in field before ordering new material.

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.

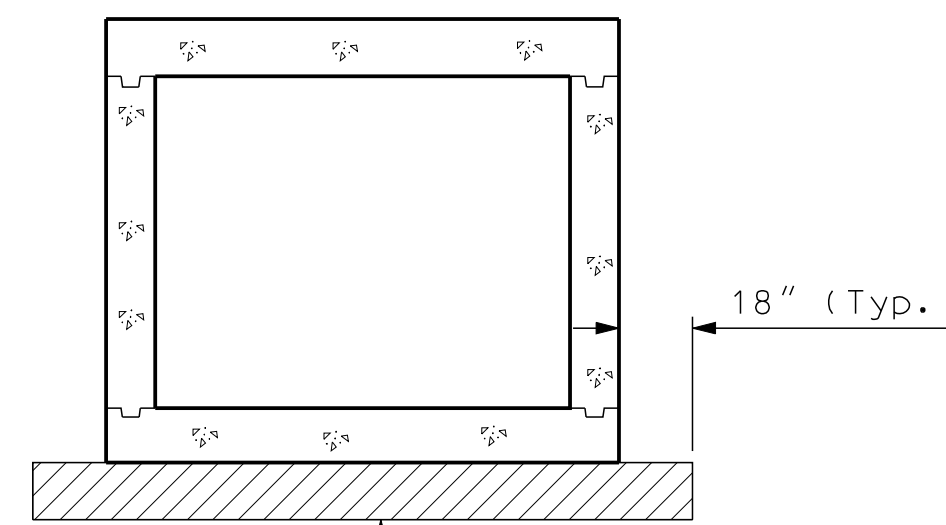
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

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



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

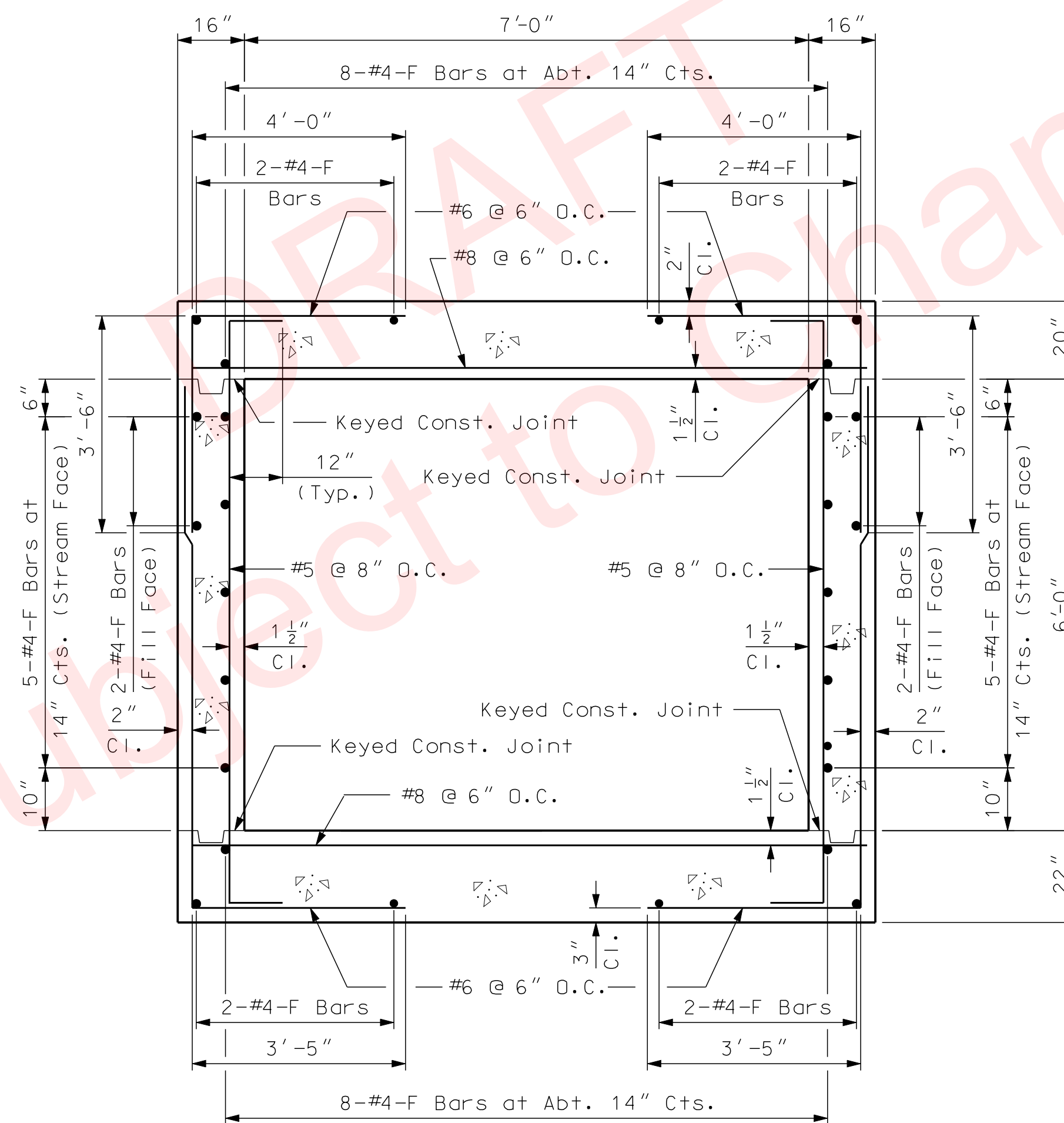
Design Fill = 41.00'
 Concrete = 1.28 cu. yard/ft.
 Reinforcing Steel = 211 lbs./ft.
 Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



**SECTION THRU BOX
 (Normal to Structure)**

(* If unsuitable material is encountered, excavation 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.



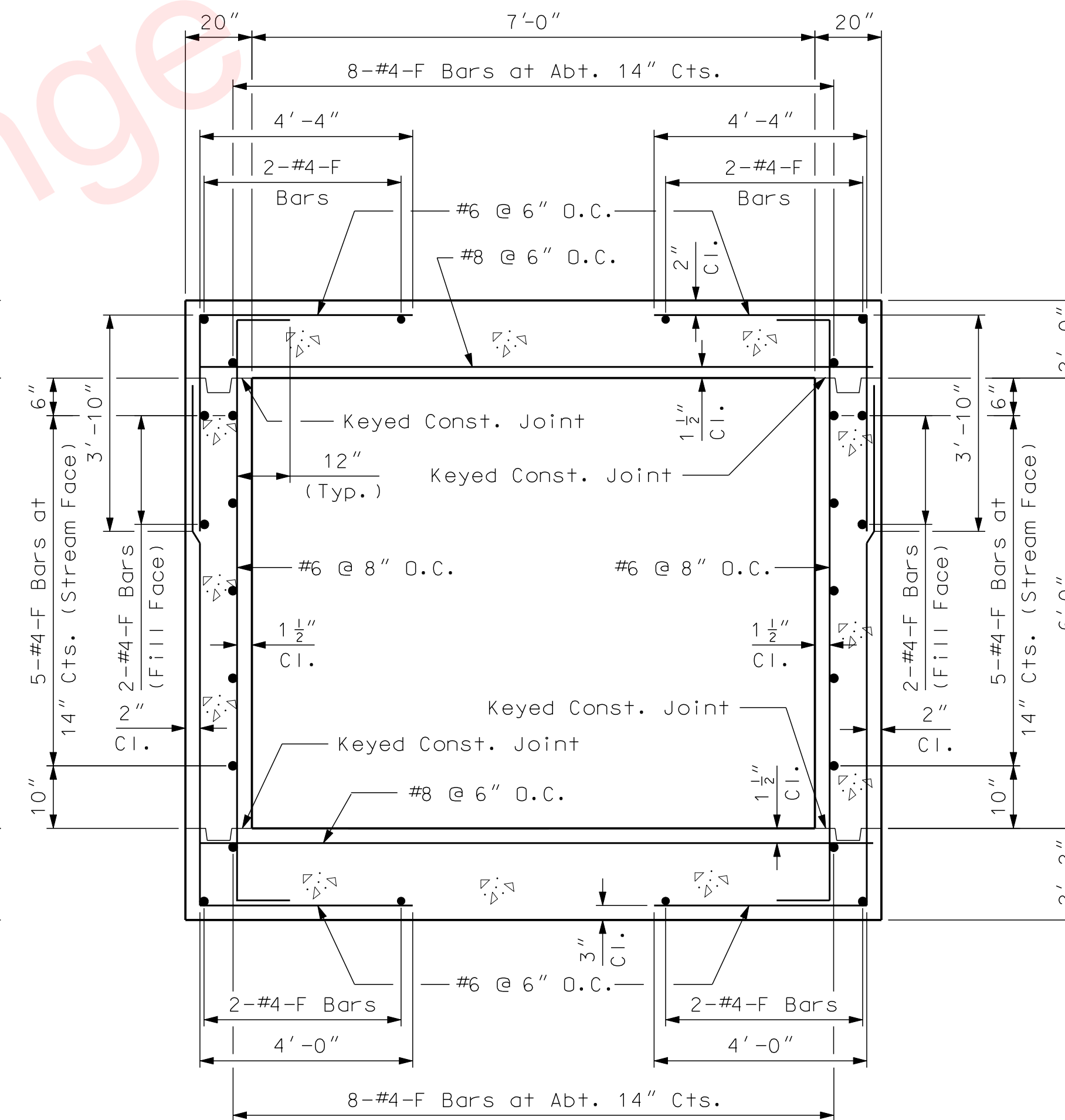
**7' x 6' BOX CULVERT SECTION
 SECTIONS D, E, O, P & Q**

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.

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.



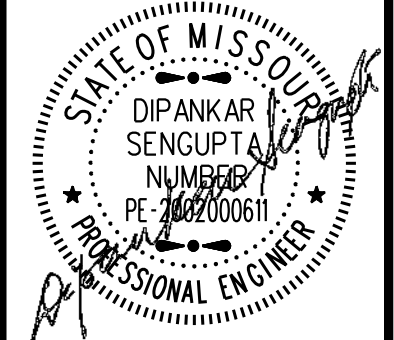
**7' x 6' BOX CULVERT SECTION
 SECTIONS F, G, H, I, J, K, L, M & N**

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. 1-49**

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

**BOX CULVERT STRUCTURAL DETAILS
 SPECIAL SHEET
 SHEET 13 OF 16**



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

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL
 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 13TH STREET, KANSAS CITY, MO 64145
 OFFICE (816)-941-6100 FAX (816)-941-6102

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.

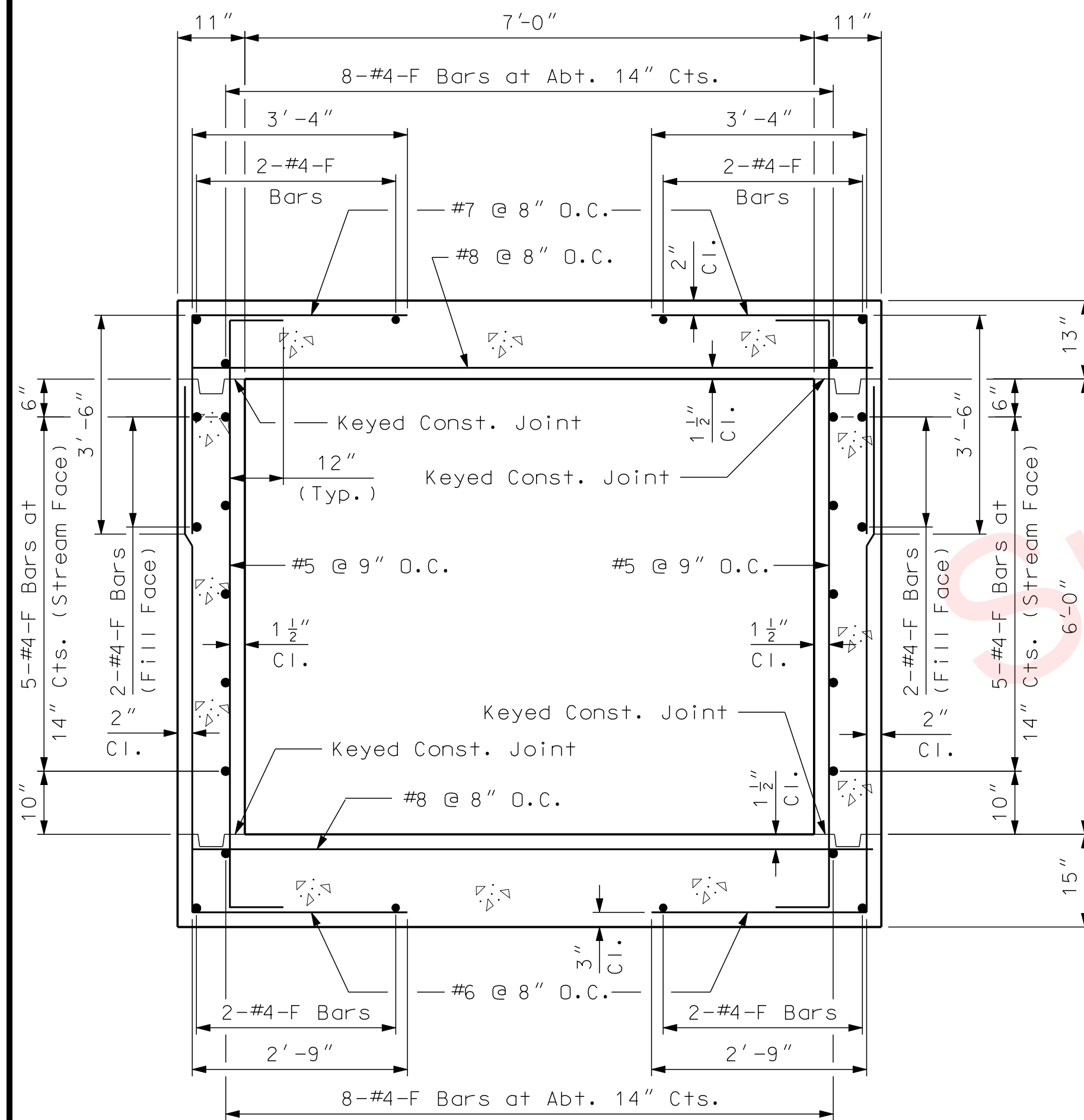
Precast Box Option:

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.

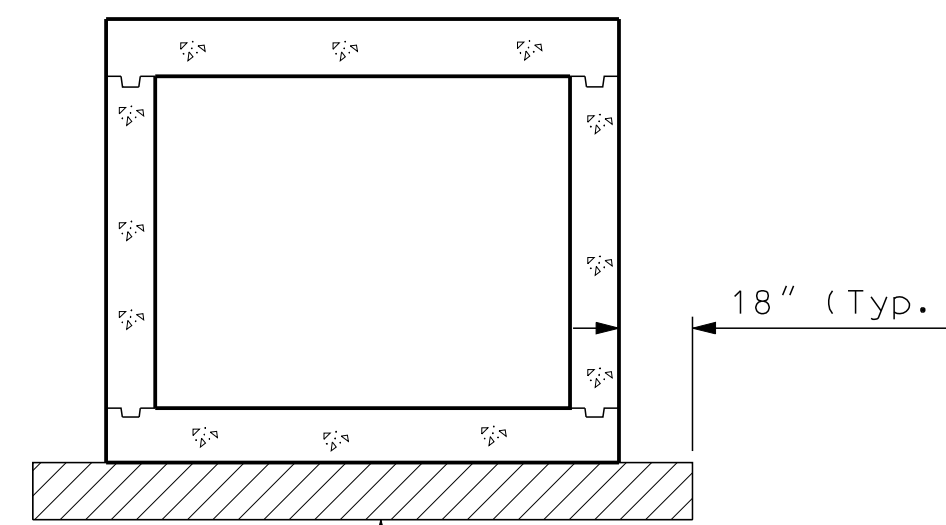
The box shown below indicating whether a precast or cip box was used should be checked by MoDot Construction personnel:

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



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

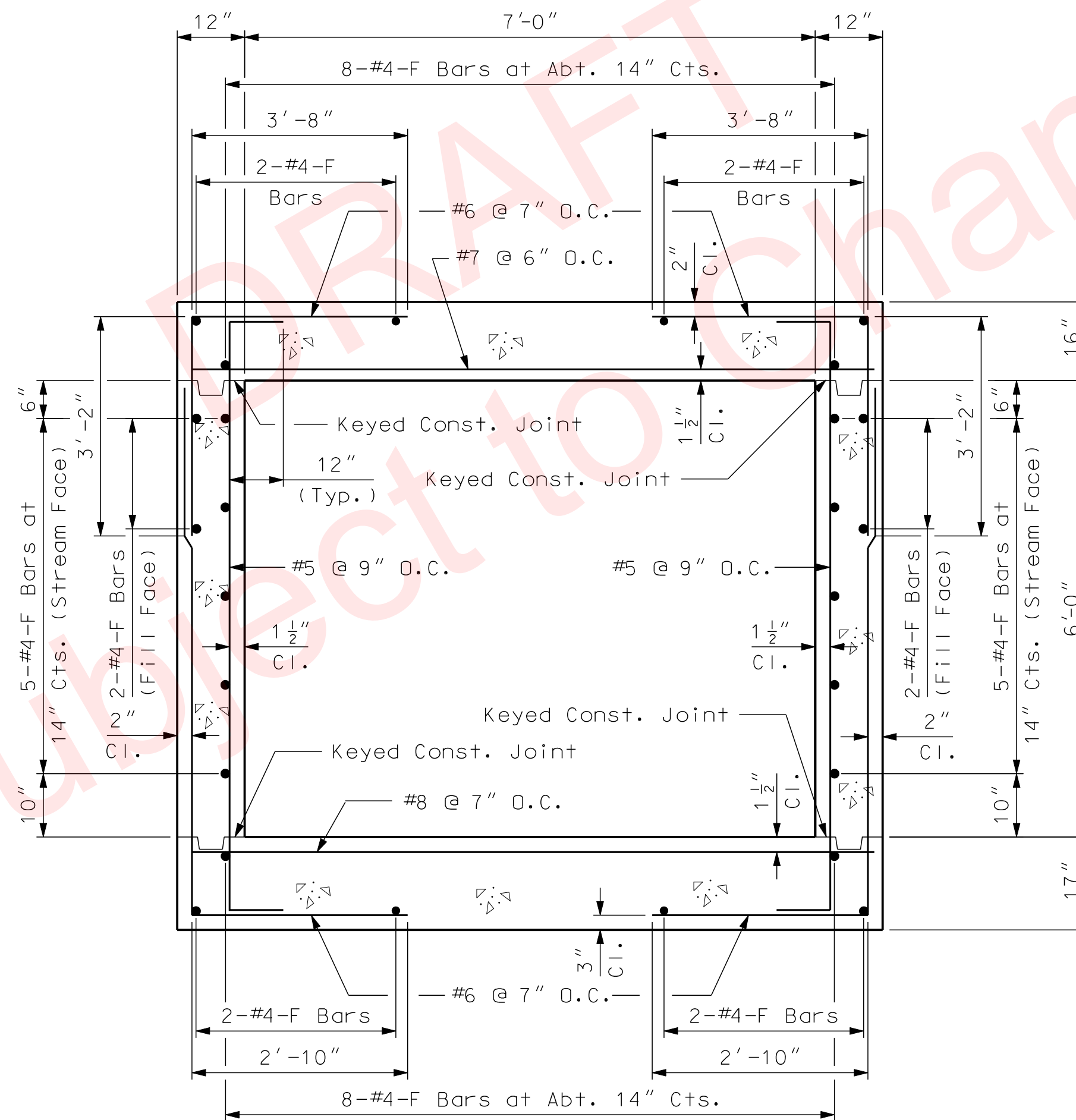
Design Fill = 36.50'
Concrete = 1.17 cu. yard/ft.
Reinforcing Steel = 206 lbs./ft.
Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.



**SECTION THRU BOX
(Normal to Structure)**

(* If unsuitable material is encountered, excavation 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.



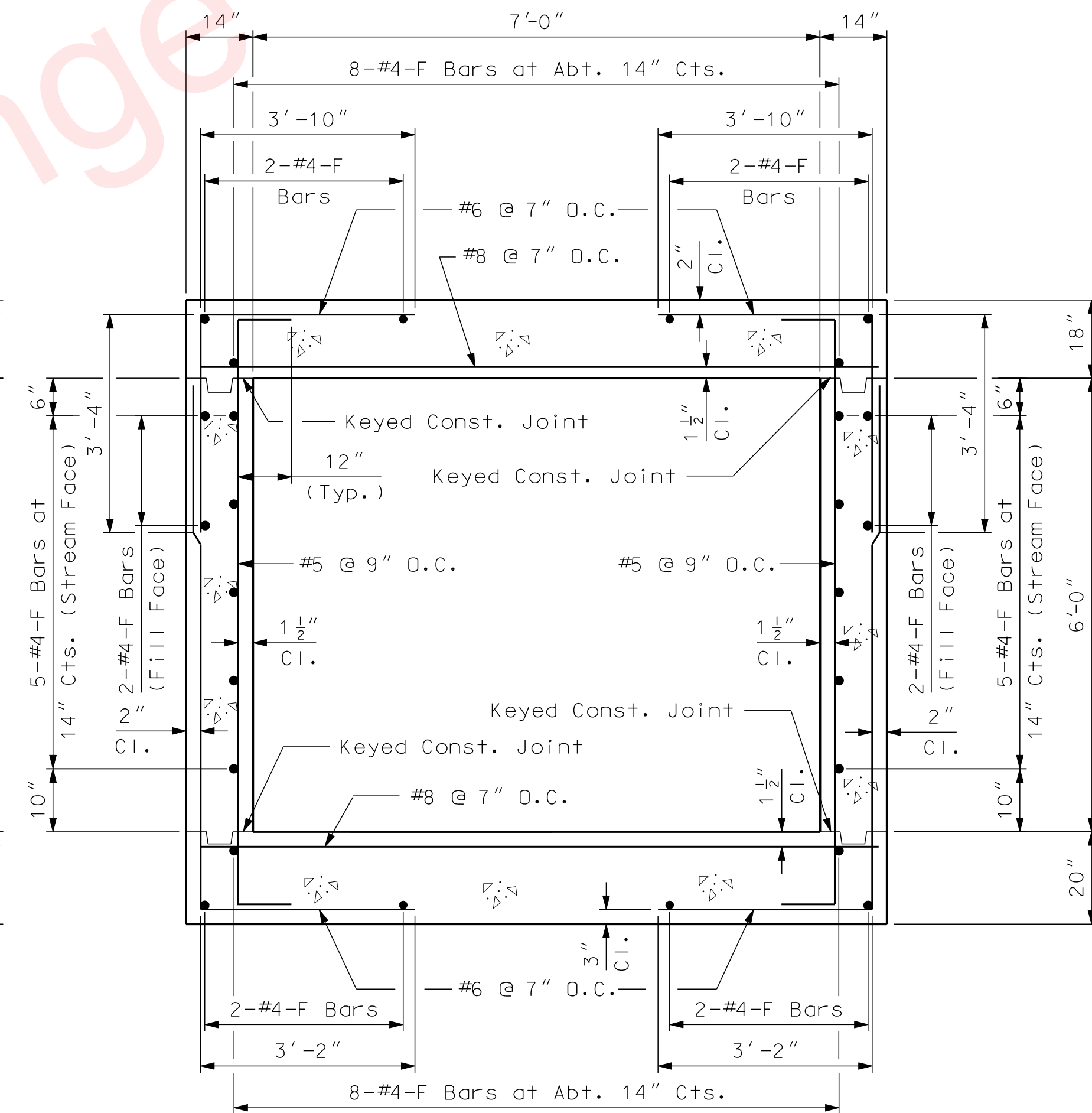
**7' x 6' BOX CULVERT SECTION
SECTIONS C & H**

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.

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.

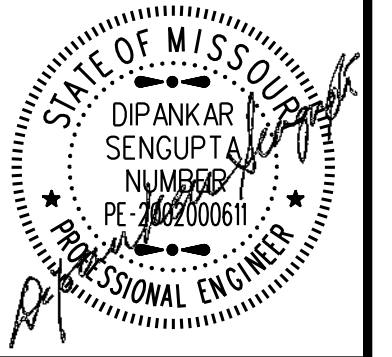


**7' x 6' BOX CULVERT SECTION
SECTIONS D, E, F & G**

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.



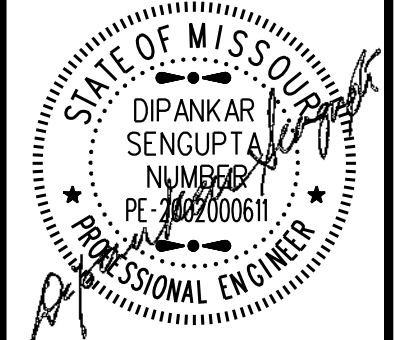
DATE 06-17-09	
DATE PREPARED 05/08/2009	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 55
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITAL
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 1325th STREET, MANASSA CITY, VA 20108
OFFICE (813)-941-6100 FAX (813)-941-6102



DATE
06-17-09

DATE PREPARED
05/08/2009

ROUTE 49 STATE MO

DISTRICT 7 SHEET NO. 56

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

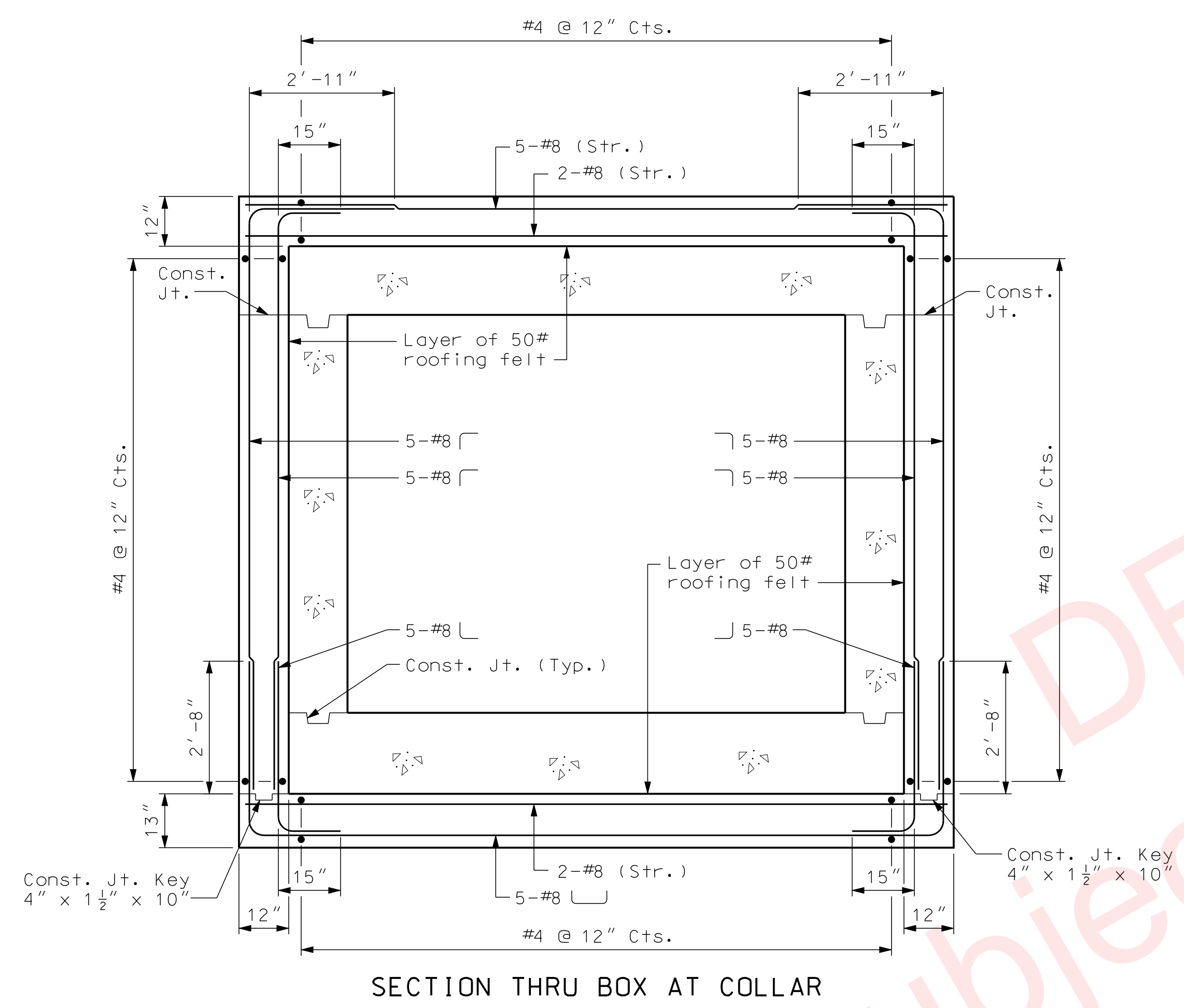
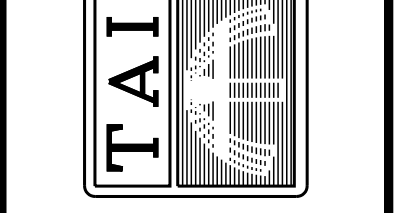
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

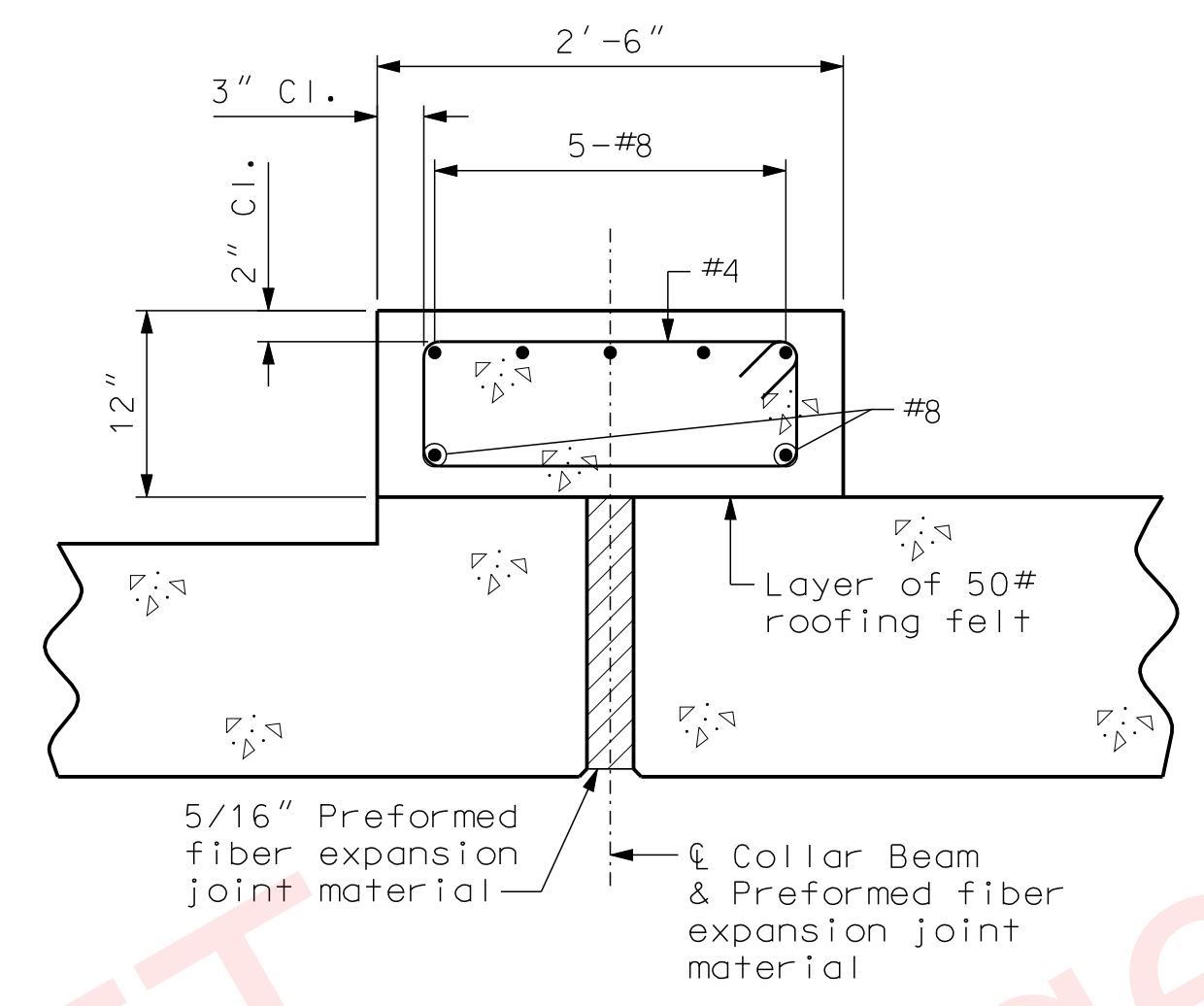
MoDOT

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

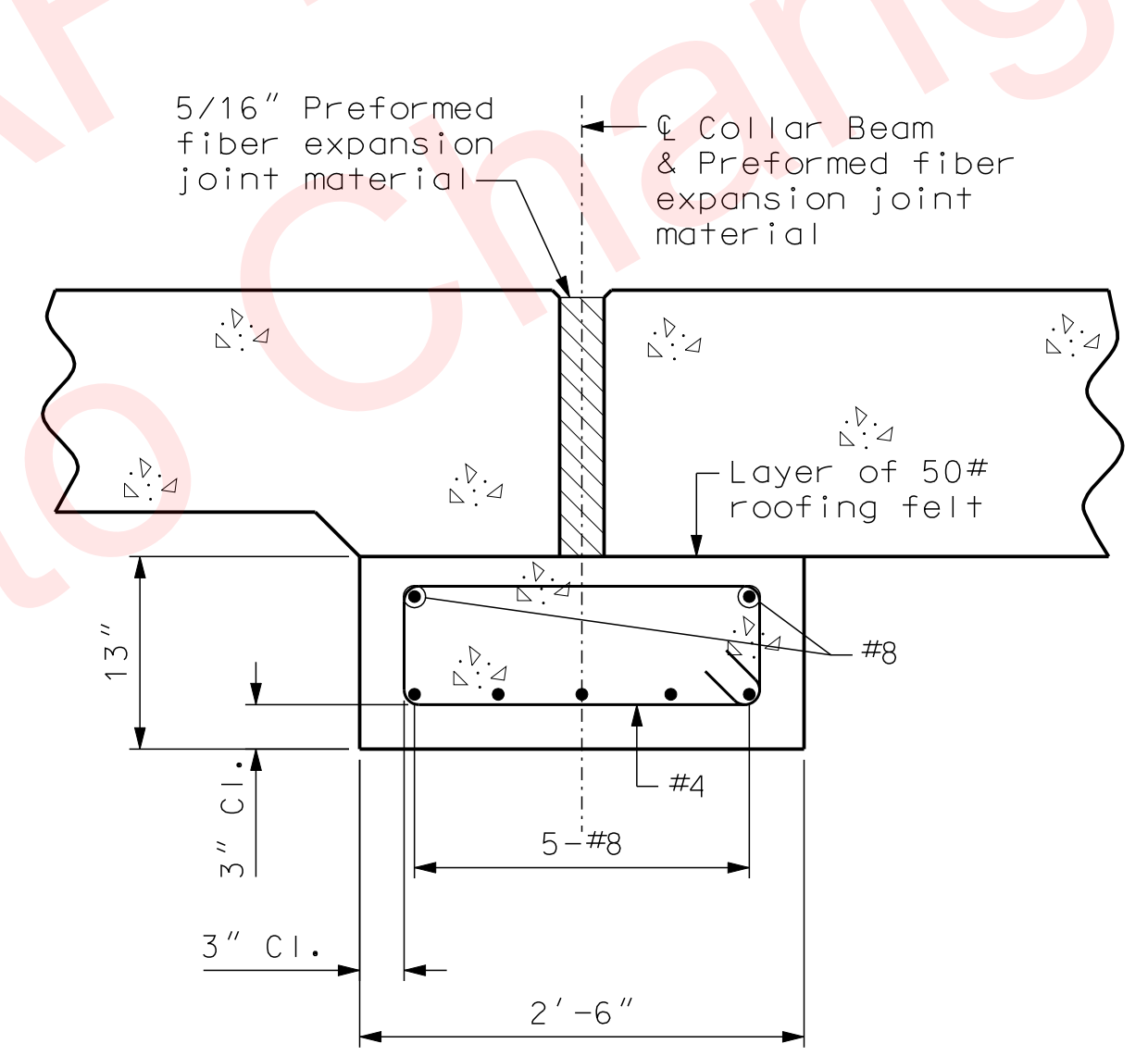
TapanAm Associates, Inc.
Consulting Engineers
CERTIFICATE OF AUTHORITY #E-786-F
201 WEST 135th STREET, MANASSAS CITY, VA 20108
OFFICE (810) 941-6100



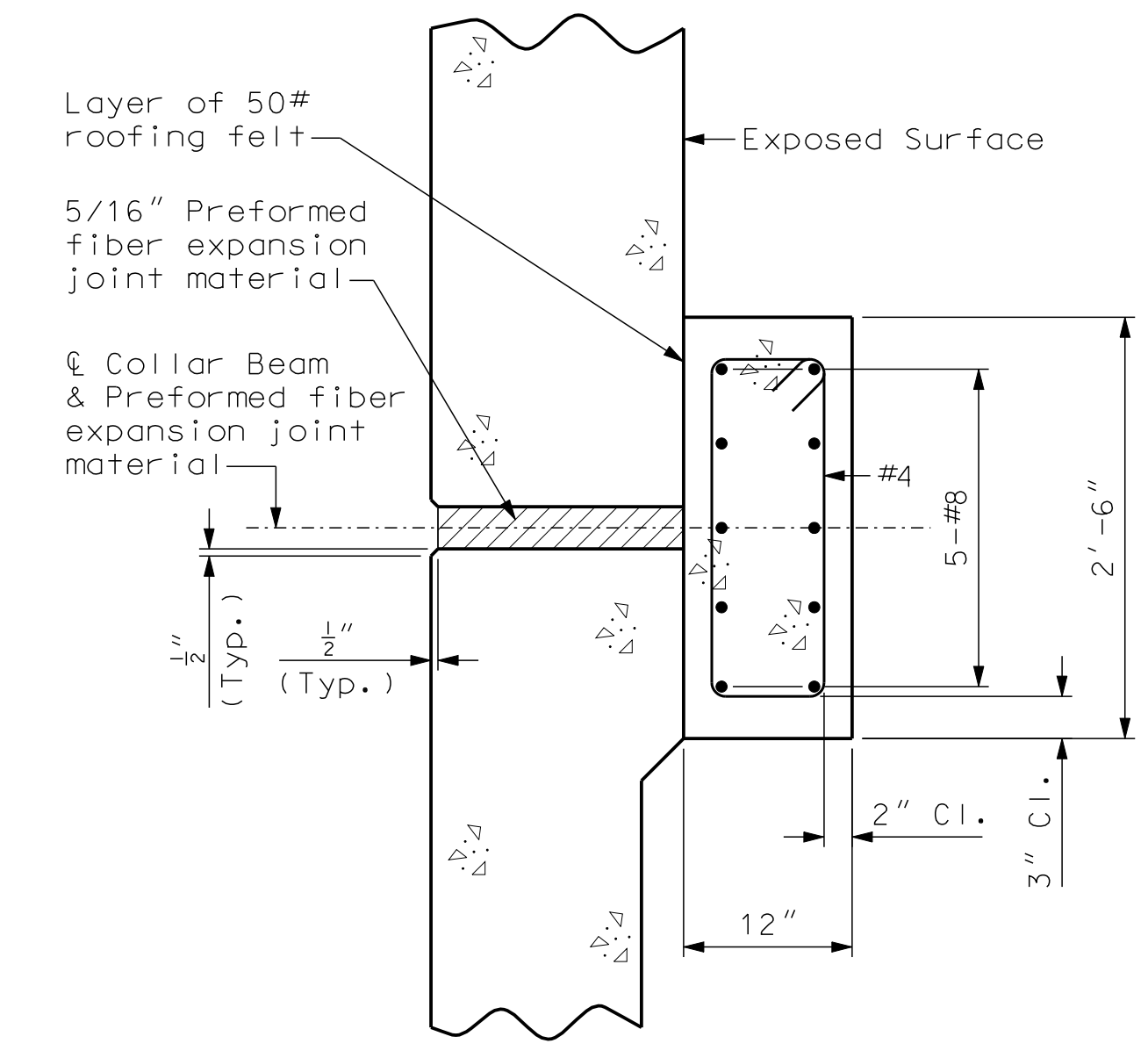
SECTION THRU BOX AT COLLAR



SECTION THRU TOP SLAB



SECTION THRU BOTTOM SLAB



SECTION THRU WALL

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

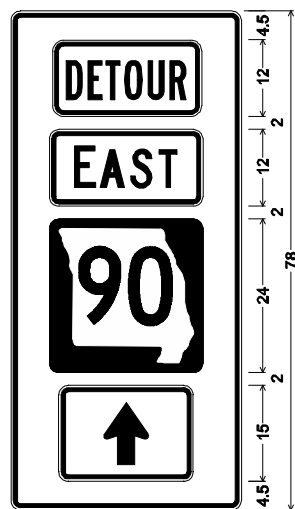
Note:
If precast option is used, collars shall be provided between all precast pieces.

DETAILS OF COLLAR BEAM

BOX CULVERT STRUCTURAL DETAILS
SPECIAL SHEET
SHEET 16 OF 16

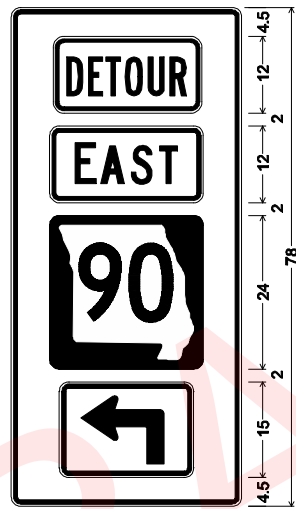
Note: This drawing is not to scale. Follow dimensions.

DETOUR SIGN DETAILS



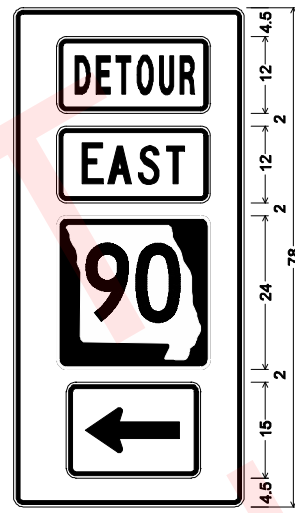
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2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500



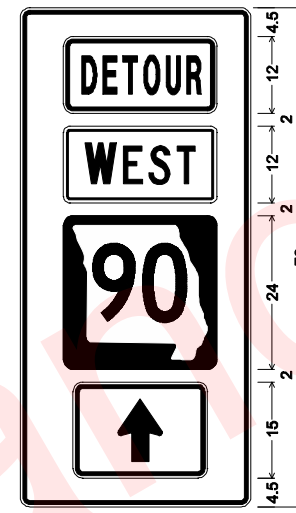
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2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500



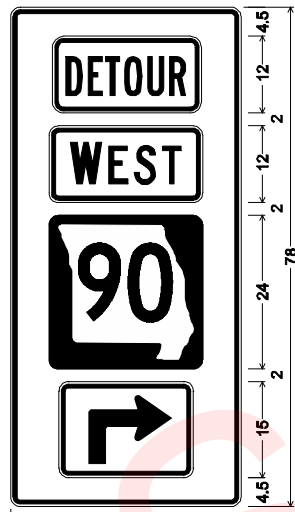
MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500



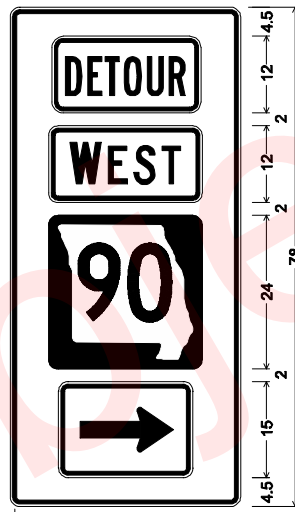
MO4-11-36 SHR4L1;
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Table of letter and object lefts.

6.000
6.000
6.000
7.500



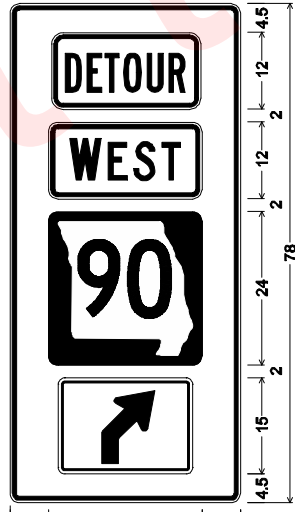
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Table of letter and object lefts.

6.000
6.000
6.000
7.500



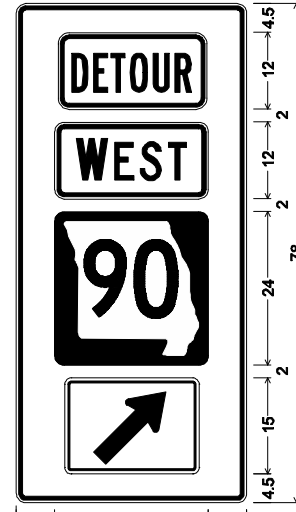
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Table of letter and object lefts.

6.000
6.000
6.000
7.500



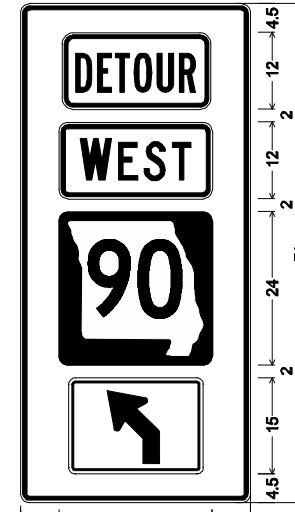
MO4-11-36 SHR4L1;
2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange;
Table of letter and object lefts.

6.000
6.000
6.000
7.500



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



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



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)	

THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.
 IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.
 REV.

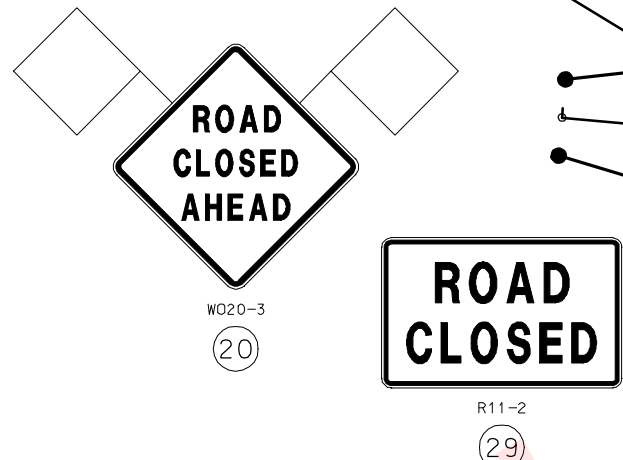
DETAIL FOR ROAD CLOSURE ON ROUTE 90

NOTE:
SIGN 29 IS
MOUNTED ON THE
BARRICADES

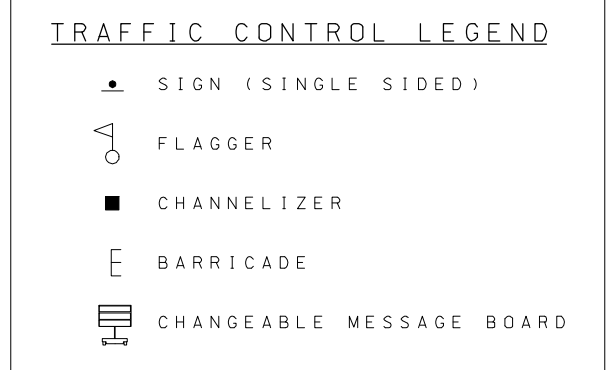
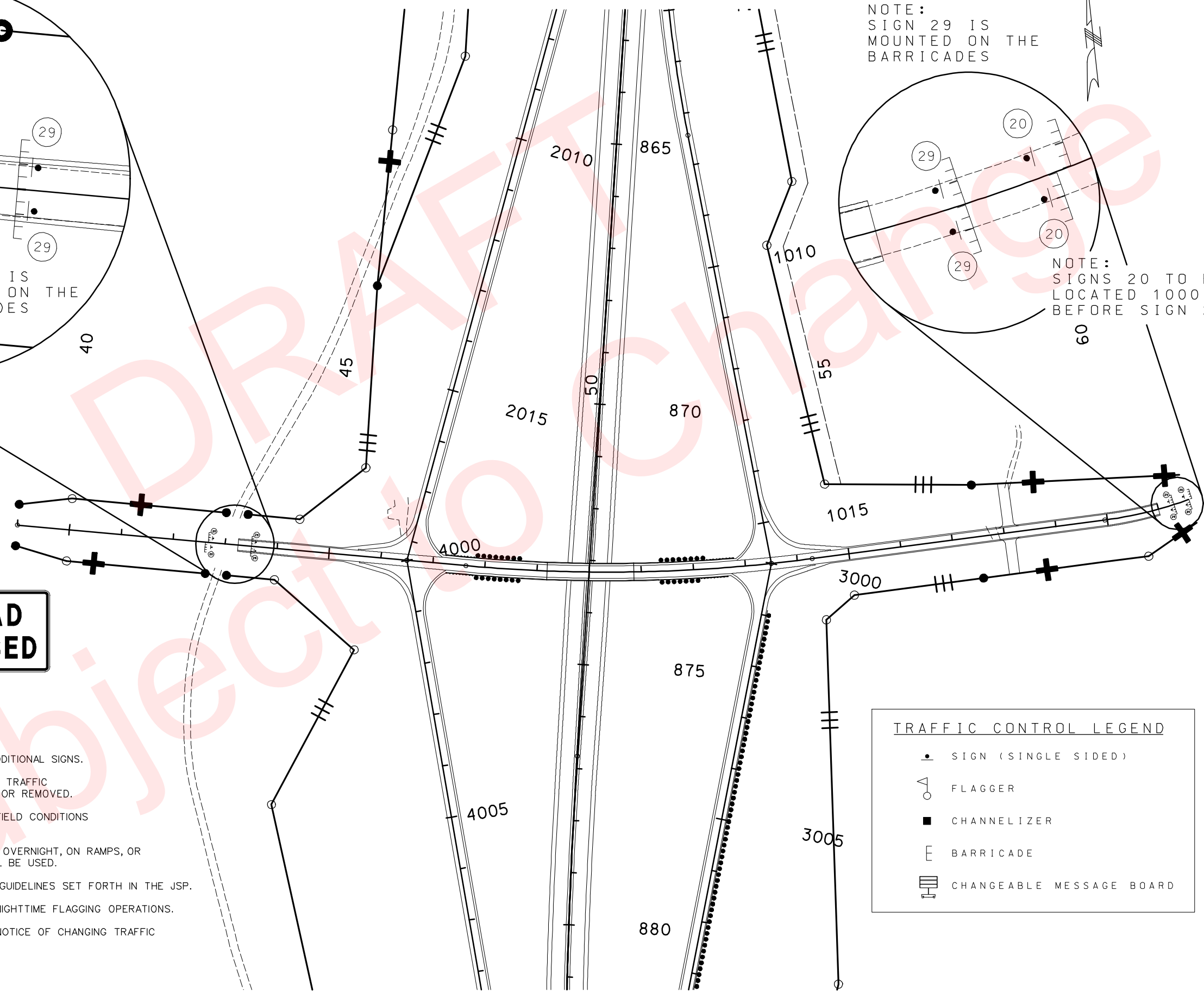
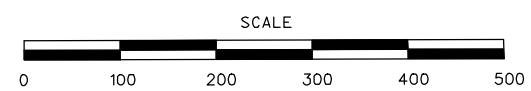
NOTE:
SIGN 29 IS
MOUNTED ON THE
BARRICADES

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

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



- 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.



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. 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)

TRAFFIC CONTROL SHEET
SHEET 3 OF 7

SIGNAGE FOR ROUTE 90 DETOUR

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

SEE DETAIL ON TRAFFIC
CONTROL SHEET 7 OF 7
(PLAN SHEET 63)

SEE DETAIL ON TRAFFIC
CONTROL SHEET 5 OF 7
(PLAN SHEET 61)

SEE DETAIL ON TRAFFIC
CONTROL SHEET 6 OF 7
(PLAN SHEET 62)

SEE DETAIL ON TRAFFIC
CONTROL SHEET 4 OF 7
(PLAN SHEET 60)

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.

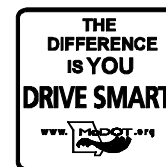
ALL LANE CLOSURES SHALL CONFORM WITH TIME GUIDELINES SET FORTH IN THE JSP.

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 LEGEND

- SIGN (SINGLE SIDED)
-  CHANGEABLE MESSAGE BOARD



CONST-6-48



R11-4



R11-3a



SCALE IN MILES

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)

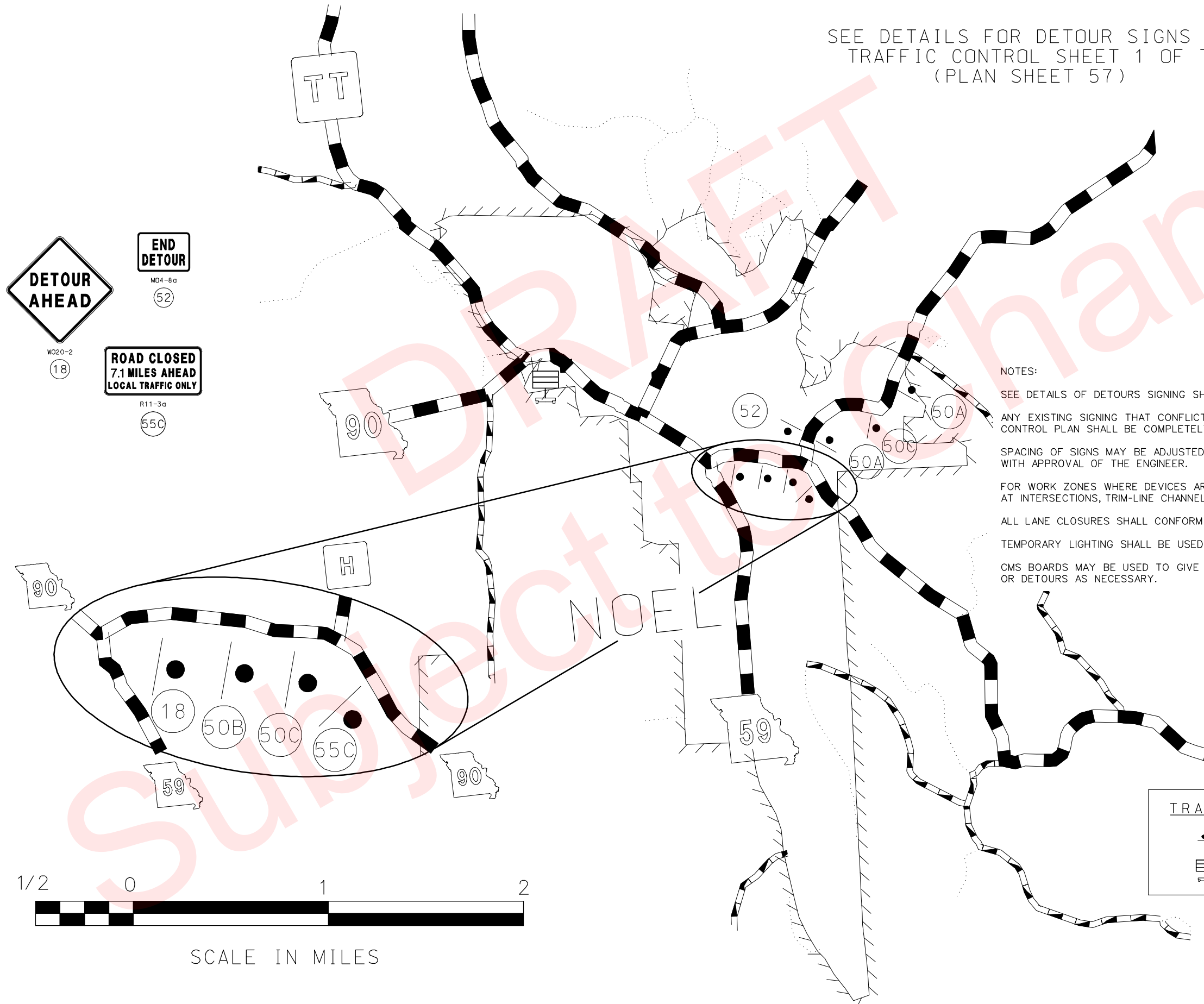
MODOT

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 LEGEND

-  SIGN (SINGLE SIDED)
-  CHANGEABLE MESSAGE BOARD

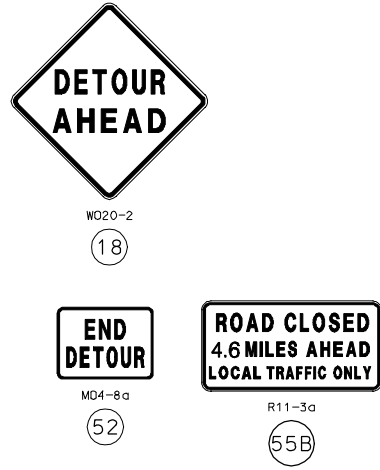
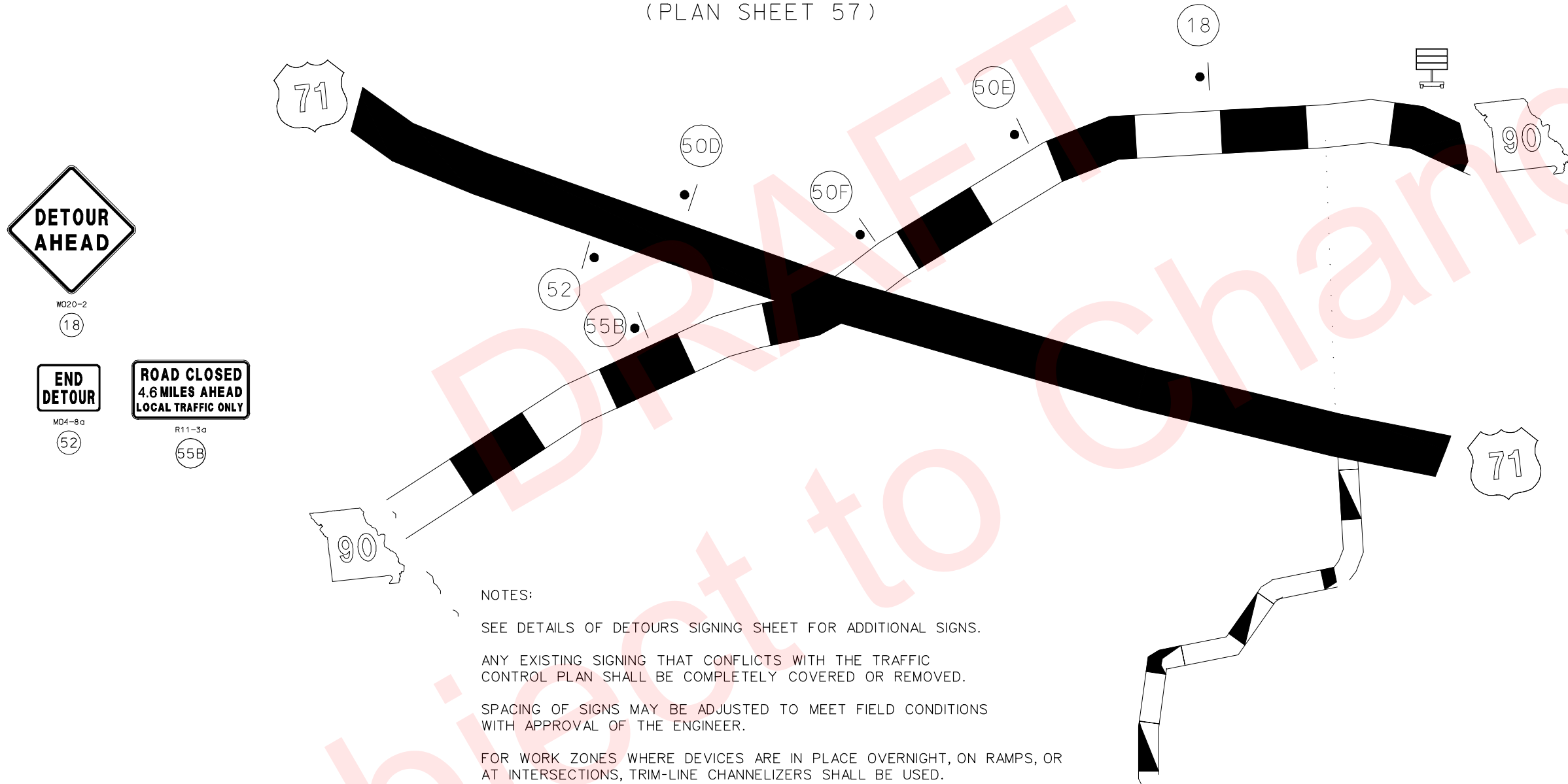


SCALE IN MILES

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

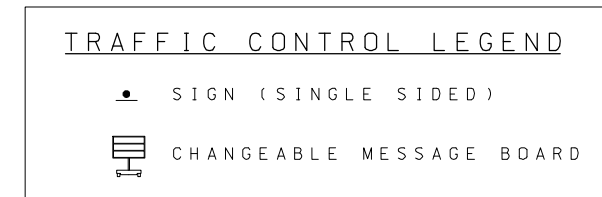


NOTES:

- 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



"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

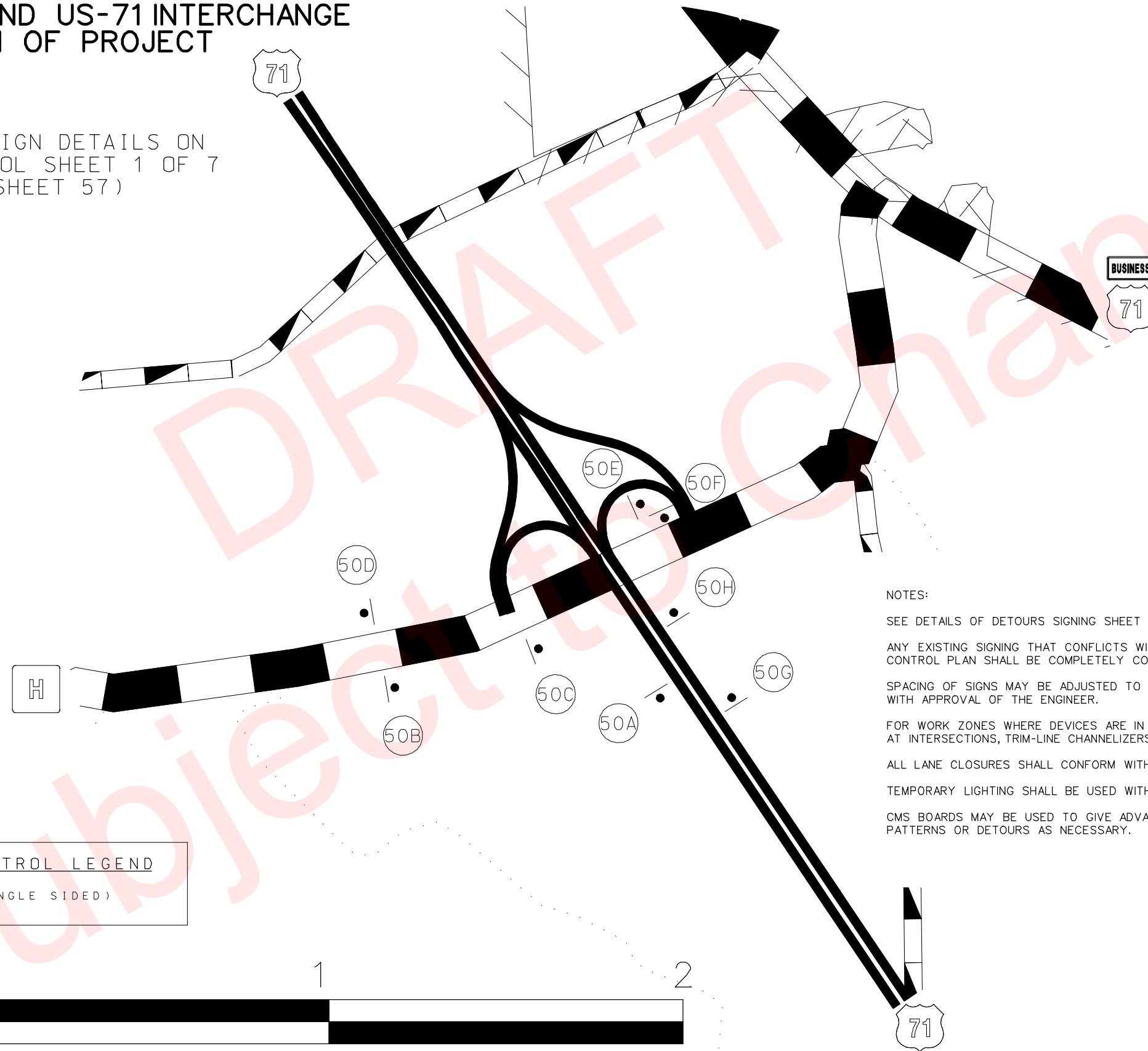
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV. 10/01

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.

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 LEGEND

• SIGN (SINGLE SIDED)



SCALE IN MILES

TRAFFIC CONTROL SHEET
SHEET 7 OF 7

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

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

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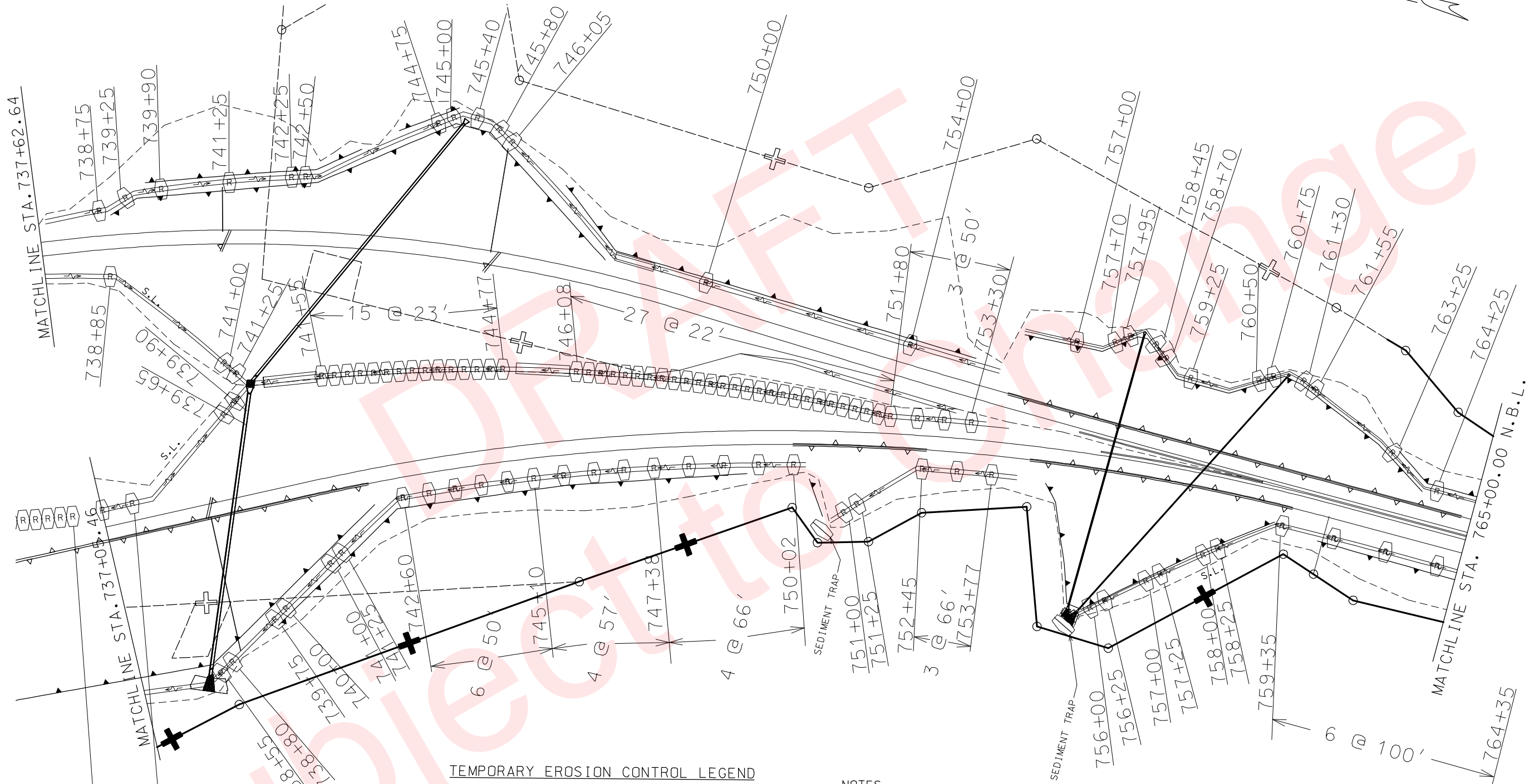
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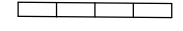



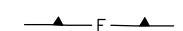
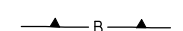
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

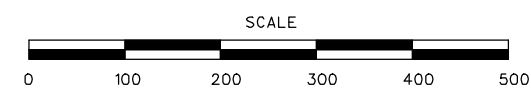


TEMPORARY EROSION CONTROL LEGEND

-  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



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.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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DATE PREPARED
02/04/2010

ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 70

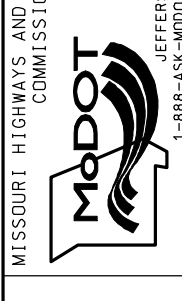
COUNTY
McDONALD
JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

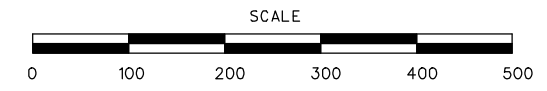
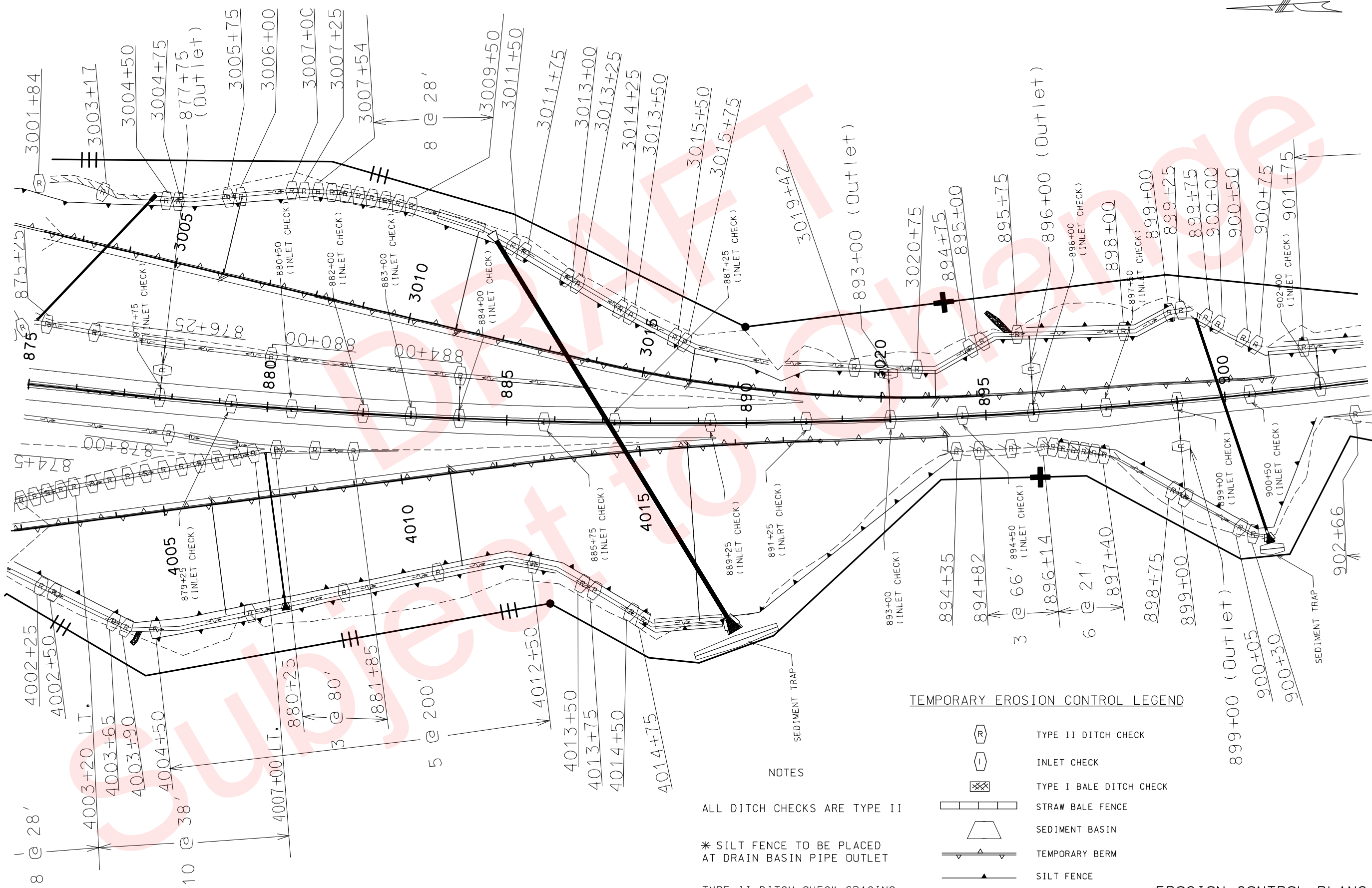
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



EROSION CONTROL PLANS
I-49 MAINLINE
SHEET 7 OF 14

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



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


EROSION CONTROL PLANS
I-49 MAINLINE
SHEET 7 OF 14

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

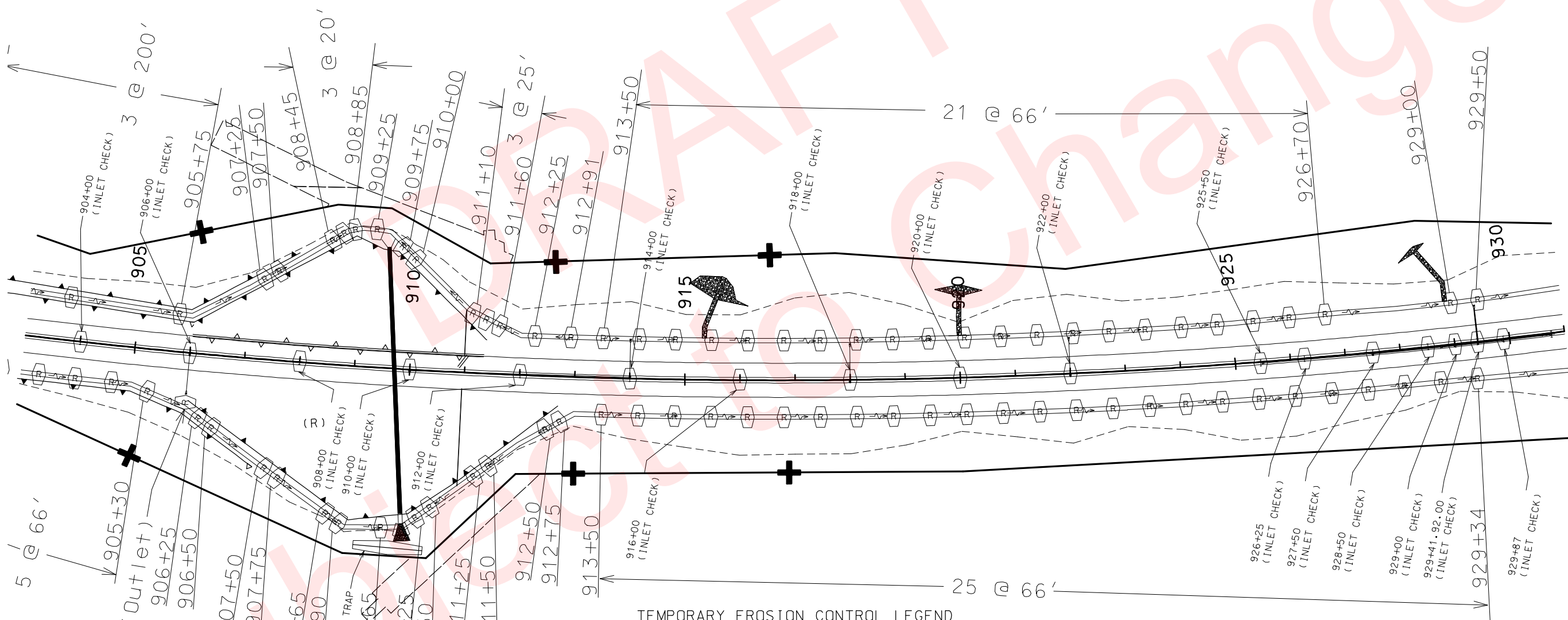
DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 71
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.






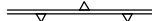



DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

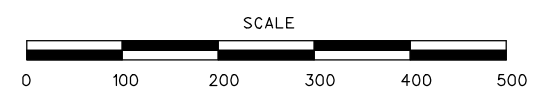


TEMPORARY EROSION CONTROL LEGEND

-  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



EROSION CONTROL PLANS


I-49 MAINLINE
SHEET 8 OF 14

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

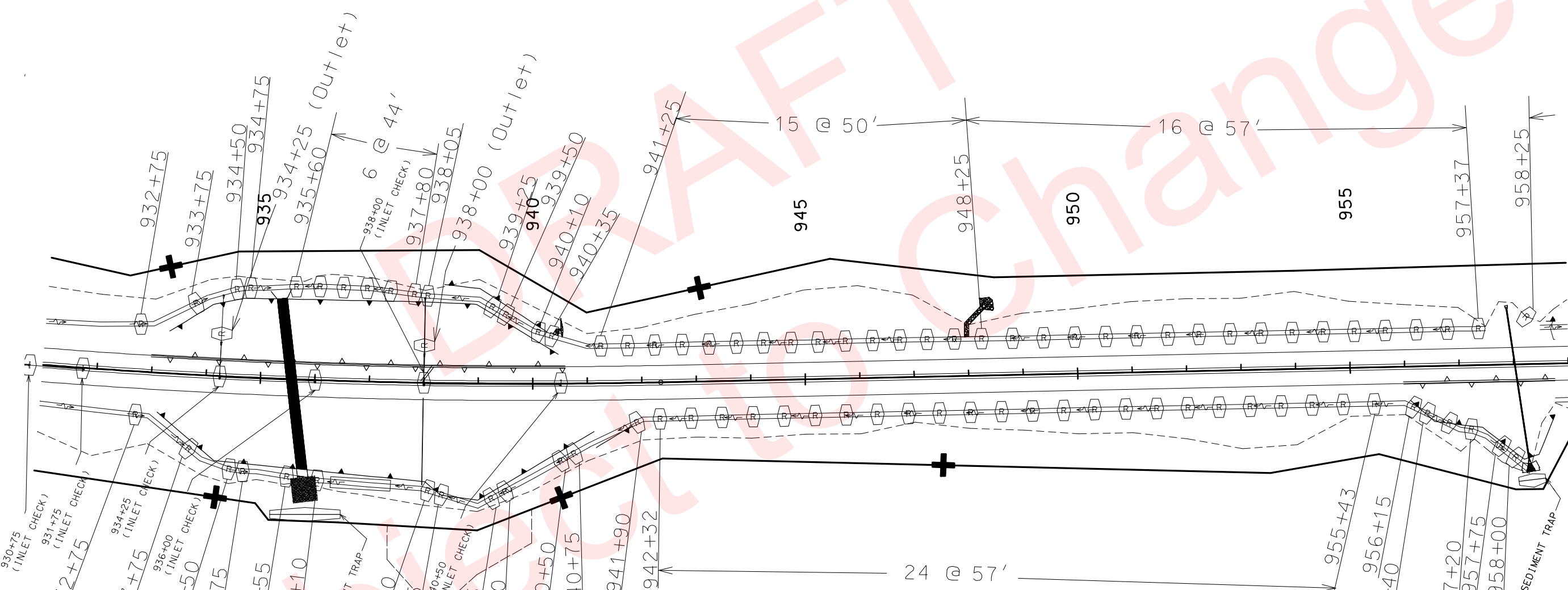
DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 72
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.




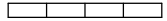

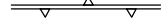


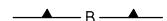
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV. 10:22:02 AM 02/04/2010

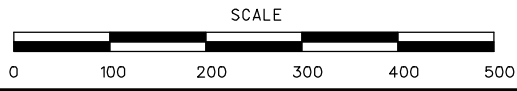


TEMPORARY EROSION CONTROL LEGEND

-  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



EROSION CONTROL PLANS
 I-49 MAINLINE
 SHEET 9 OF 14

SURFACE CHANGE

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

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

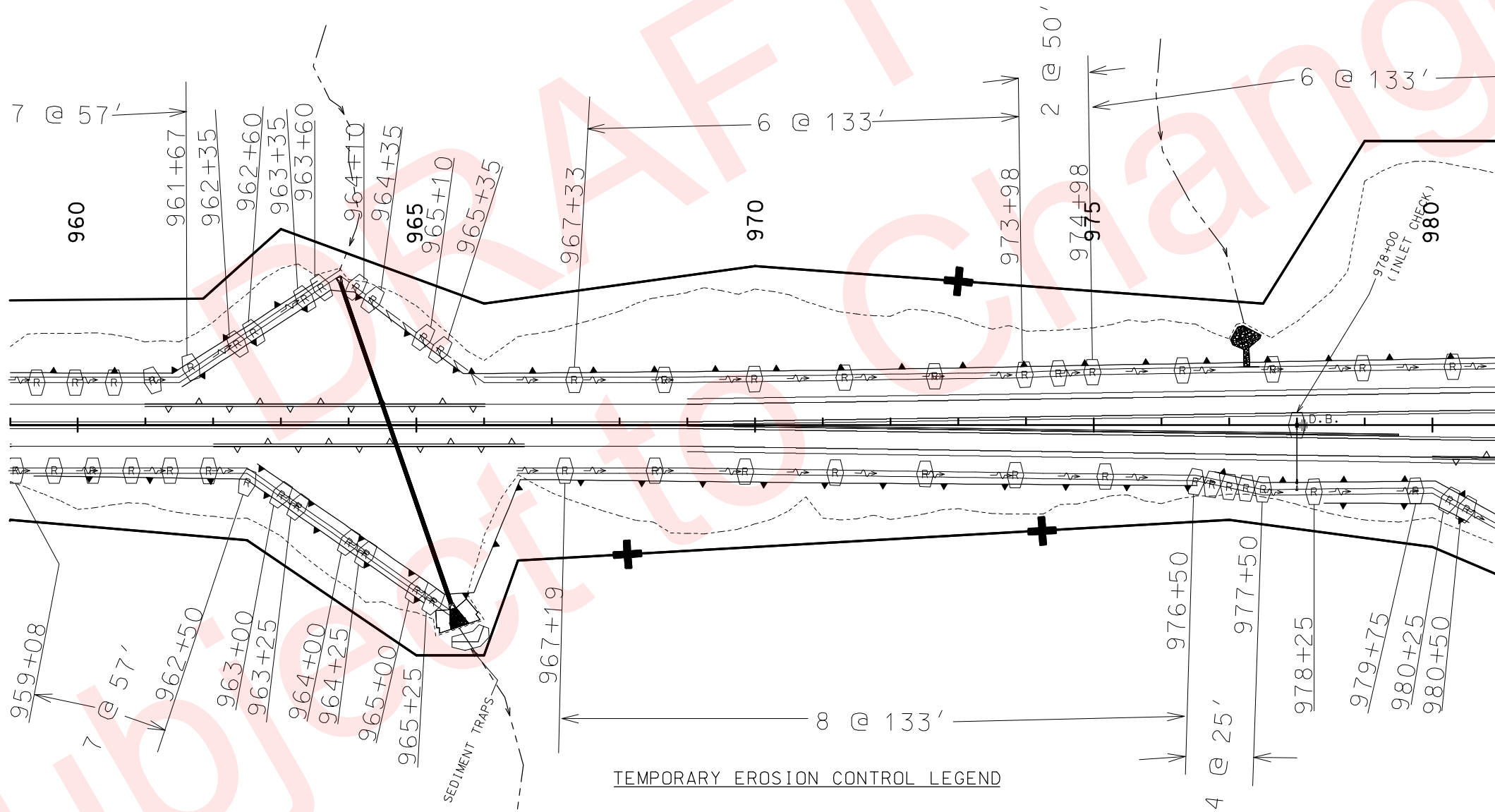
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

REV.



NOTES

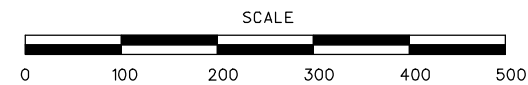
ALL DITCH CHECKS ARE TYPE II

* 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
- STRAW BALE FENCE



EROSION CONTROL PLANS

I-49 MAINLINE

SHEET 10 OF 14

"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

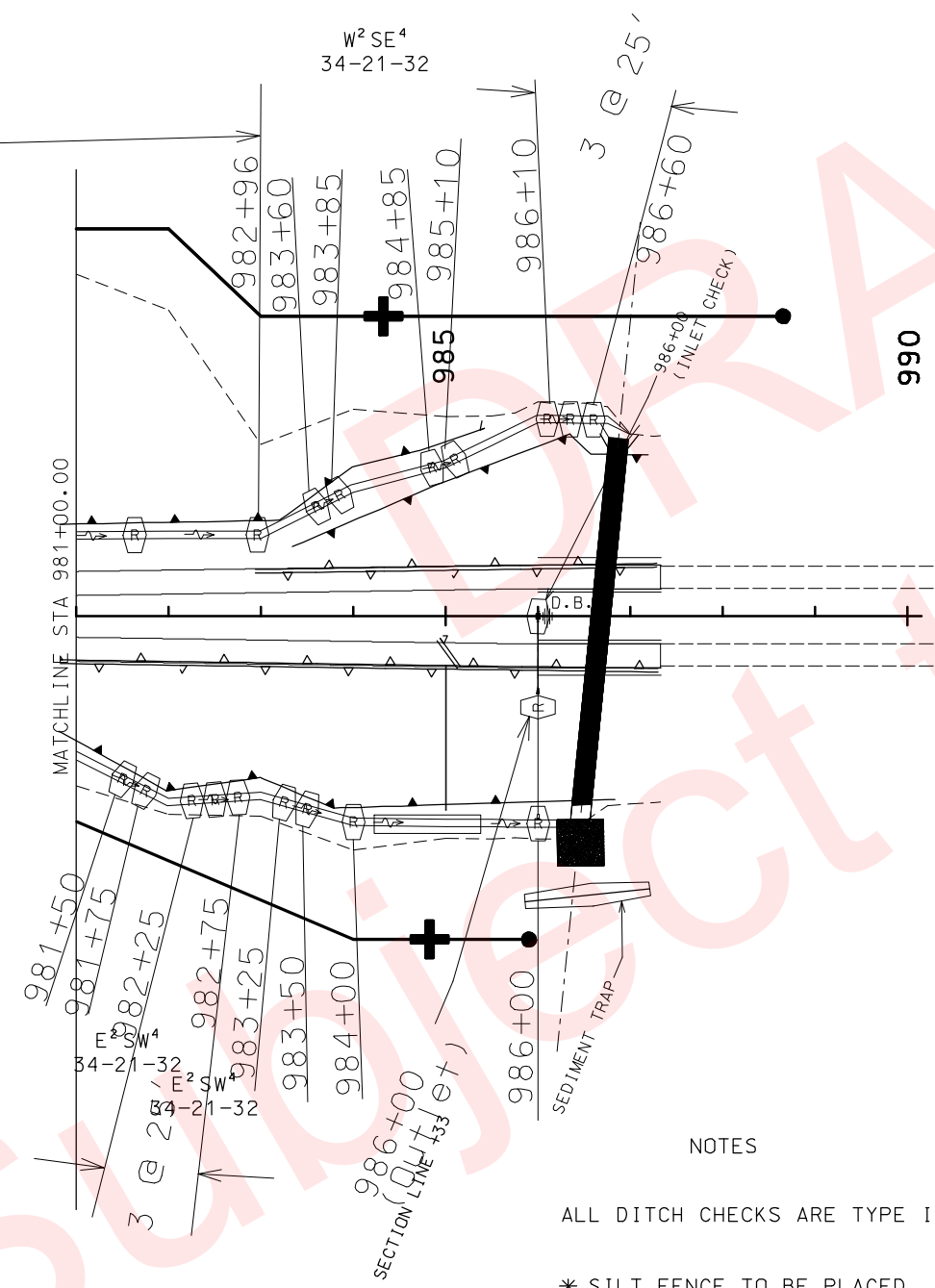
105 WEST CAPITOL JEFFERSON CITY, MO 65102

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




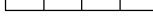



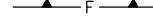
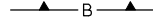
MoDOT

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

REV.



TEMPORARY EROSION CONTROL LEGEND

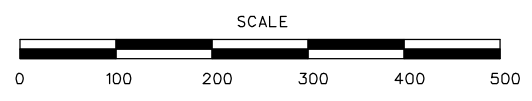
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-  INLET CHECK
-  TYPE I BAFFLE DITCH CHECK
-  STRAW BALE FENCE
-  SEDIMENT BASIN
-  TEMPORARY BERM
-  SILT FENCE
-  SILT FENCE
-  STRAW BALE FENCE

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



EROSION CONTROL PLANS

I-49 MAINLINE
SHEET 11 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.

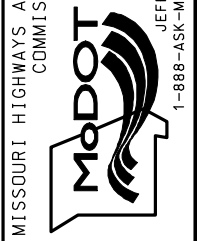
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DATE

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



REV.



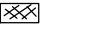
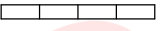

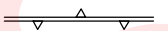

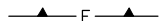
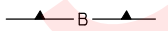
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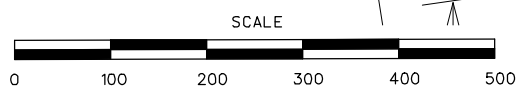
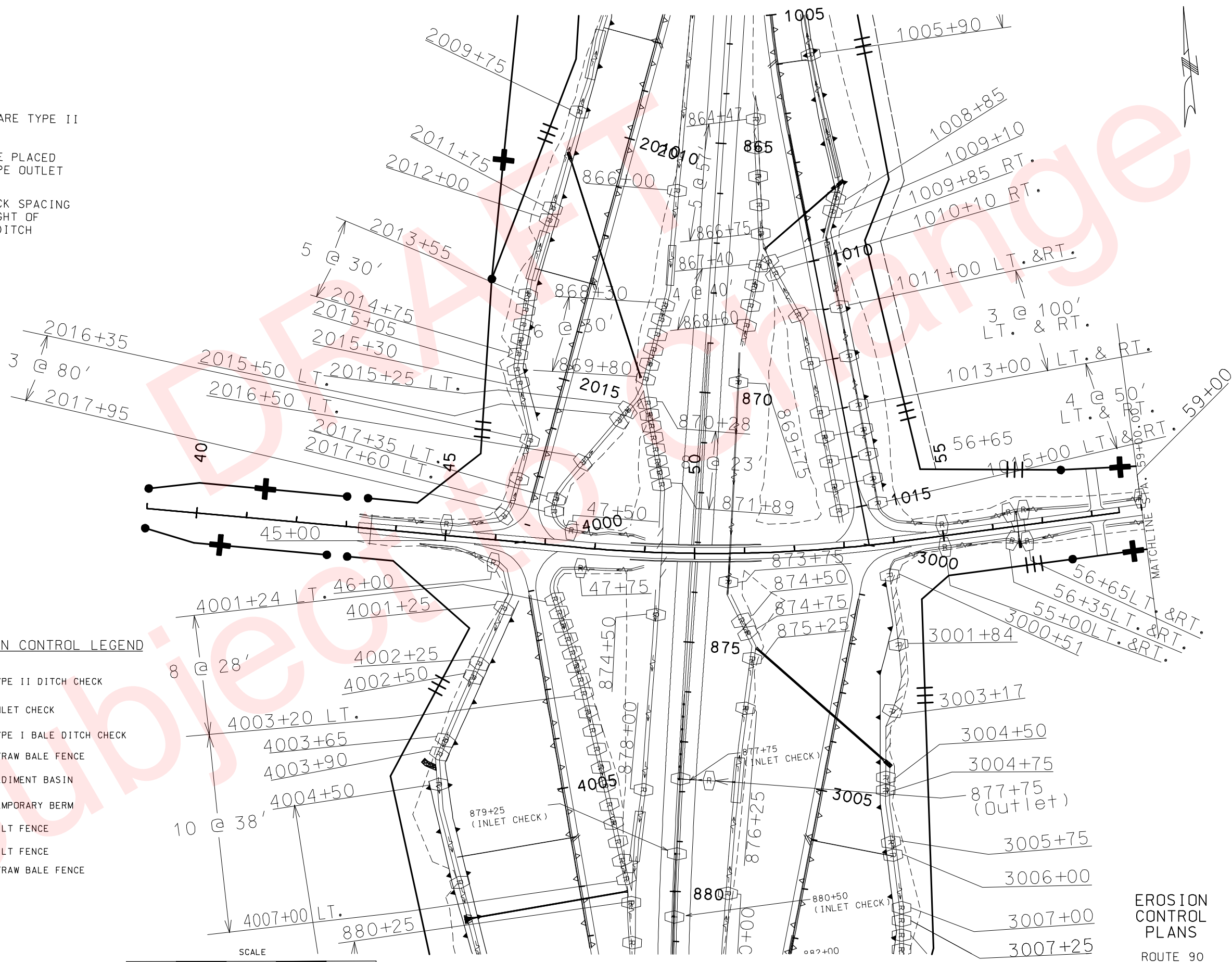
ALL DITCH CHECKS ARE TYPE II

* 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



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. 76


COUNTY
McDONALD
JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

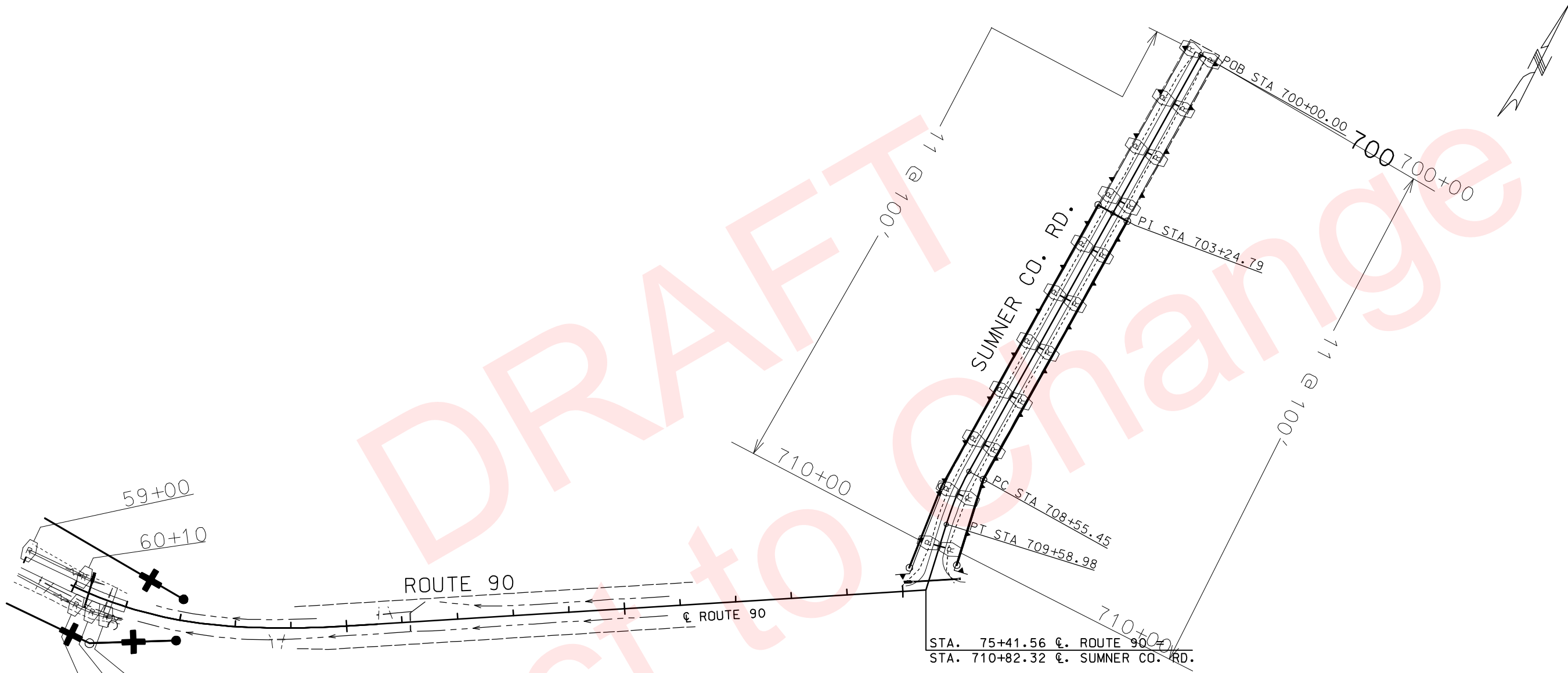
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION




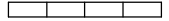

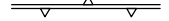





105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



TEMPORARY EROSION CONTROL LEGEND

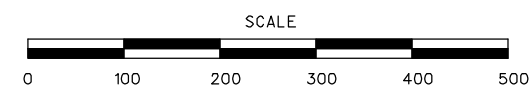
-  TYPE II DITCH CHECK
-  INLET CHECK
-  TYPE I BALE DITCH CHECK
-  STRAW BALE FENCE
-  SEDIMENT BASIN
-  TEMPORARY BERM
-  SILT FENCE
-  SILT FENCE
-  STRAW BALE FENCE

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



EROSION CONTROL PLANS
SUMNER CO. RD. & PART ROUTE 90
SHEET 13 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.

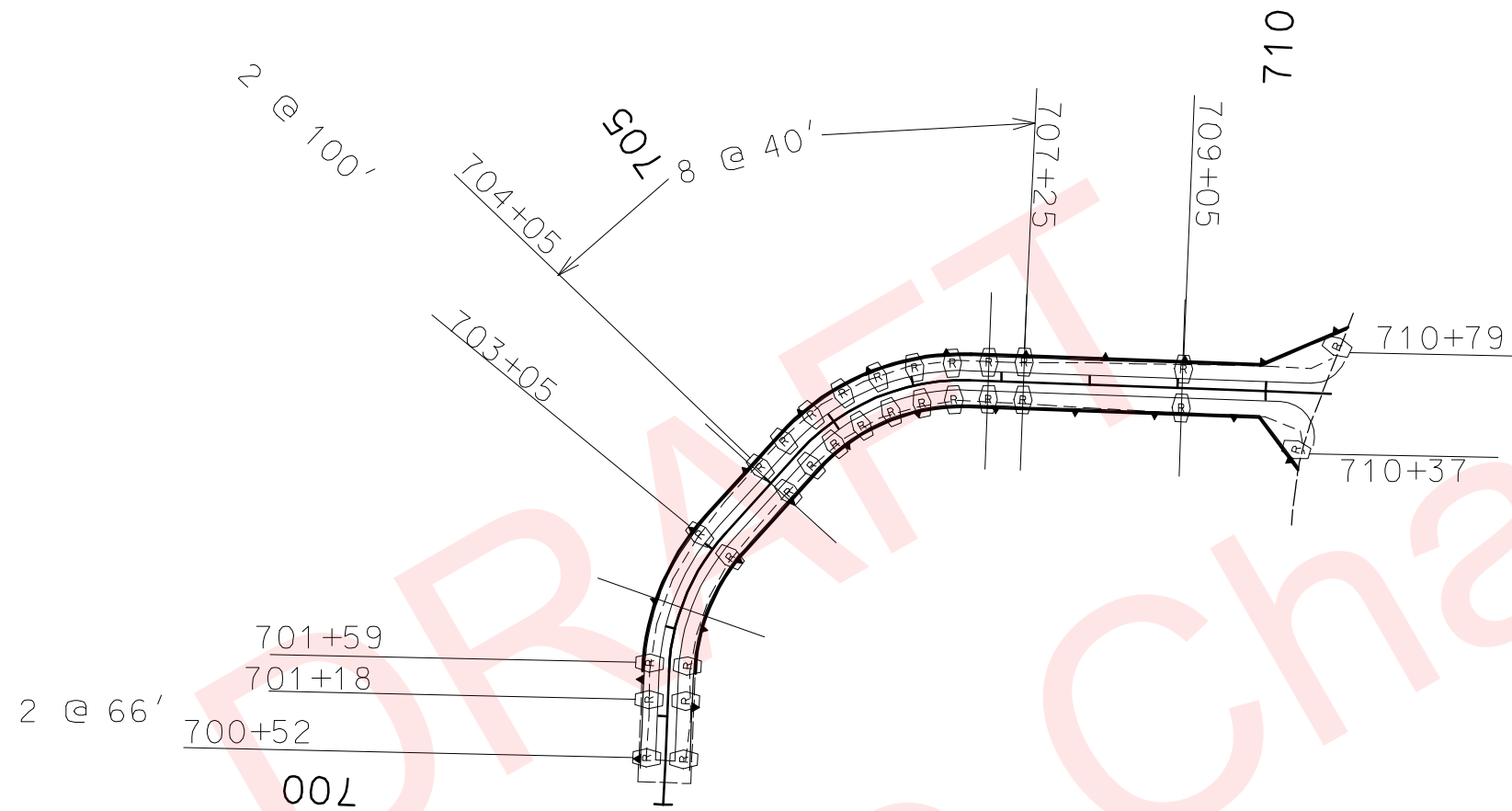
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

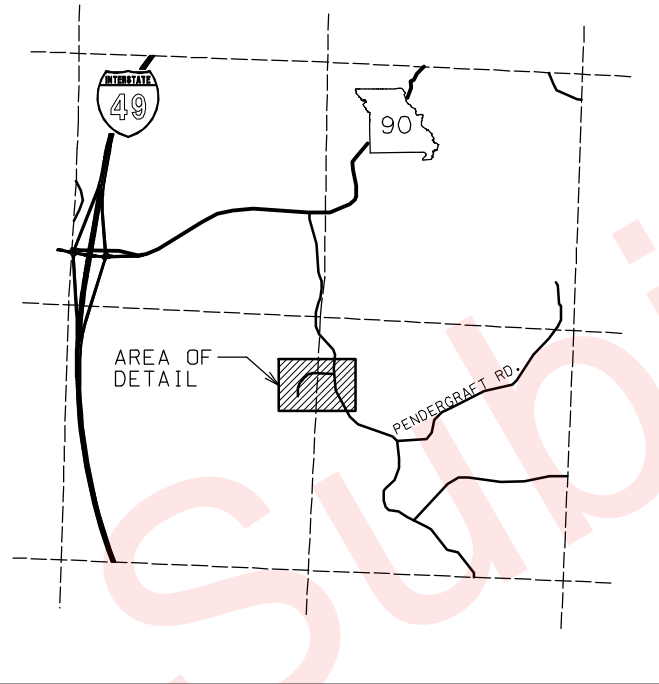


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)






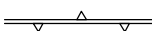



REV.



LOCATION MAP (N.T.S.)



TEMPORARY EROSION CONTROL LEGEND

-  TYPE II DITCH CHECK
-  INLET CHECK
-  TYPE I BALE DITCH CHECK
-  STRAW BALE FENCE
-  SEDIMENT BASIN
-  TEMPORARY BERM
-  SILTS FENCE
-  SILTS 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













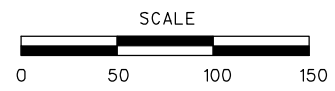
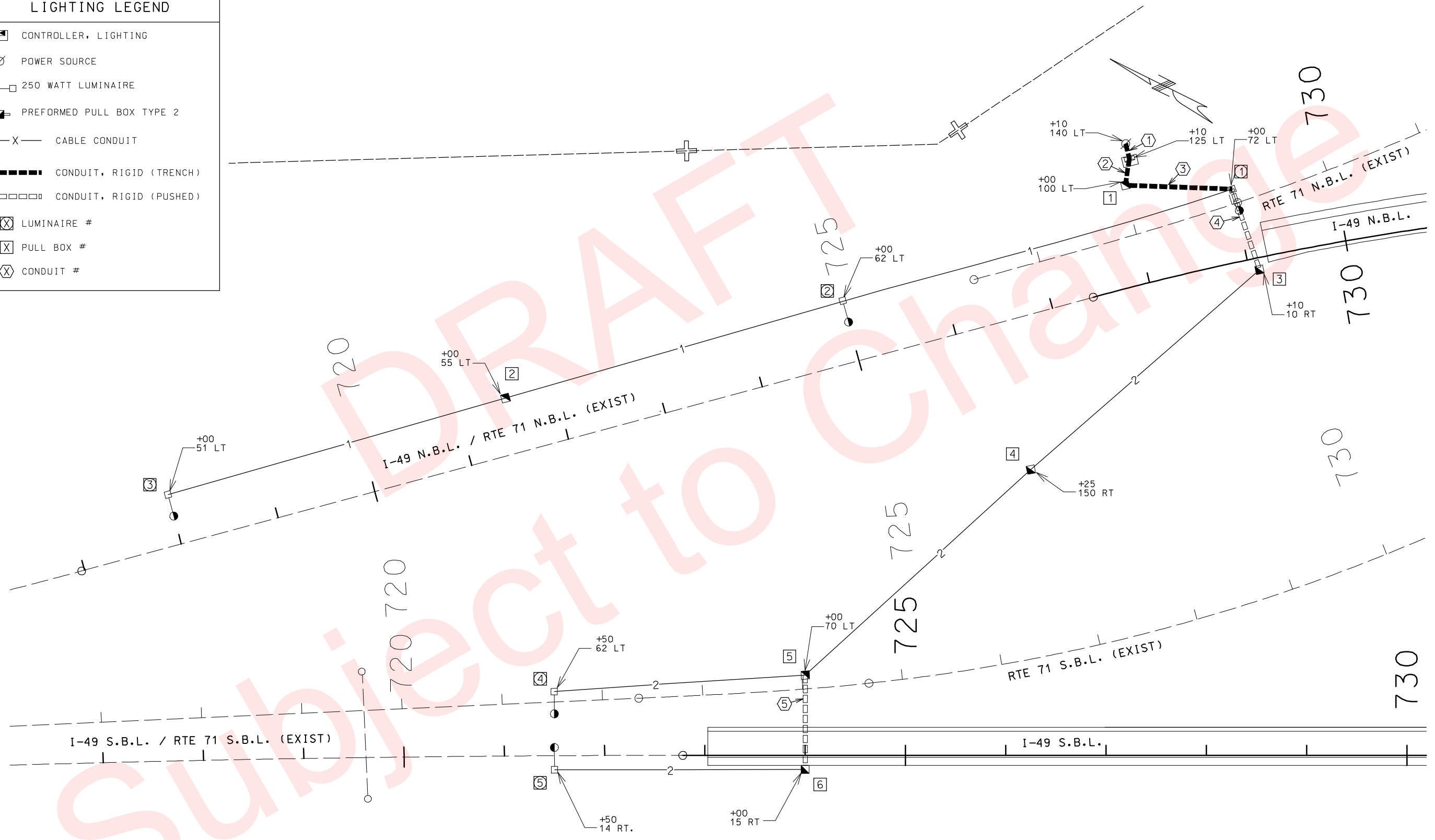
EROSION CONTROL PLANS

KELLEY ACCESS ROAD

SHEET 14 OF 14

LIGHTING LEGEND

-  CONTROLLER, LIGHTING
-  POWER SOURCE
-  250 WATT LUMINAIRE
-  PREFORMED PULL BOX TYPE 2
-  CABLE CONDUIT
-  CONDUIT, RIGID (TRENCH)
-  CONDUIT, RIGID (PUSHED)
-  LUMINAIRE #
-  PULL BOX #
-  CONDUIT #




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.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

078_LT_01_J7P0601_I50_I49.dgn 10:52:08 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. 79

COUNTY
McDONALD
JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

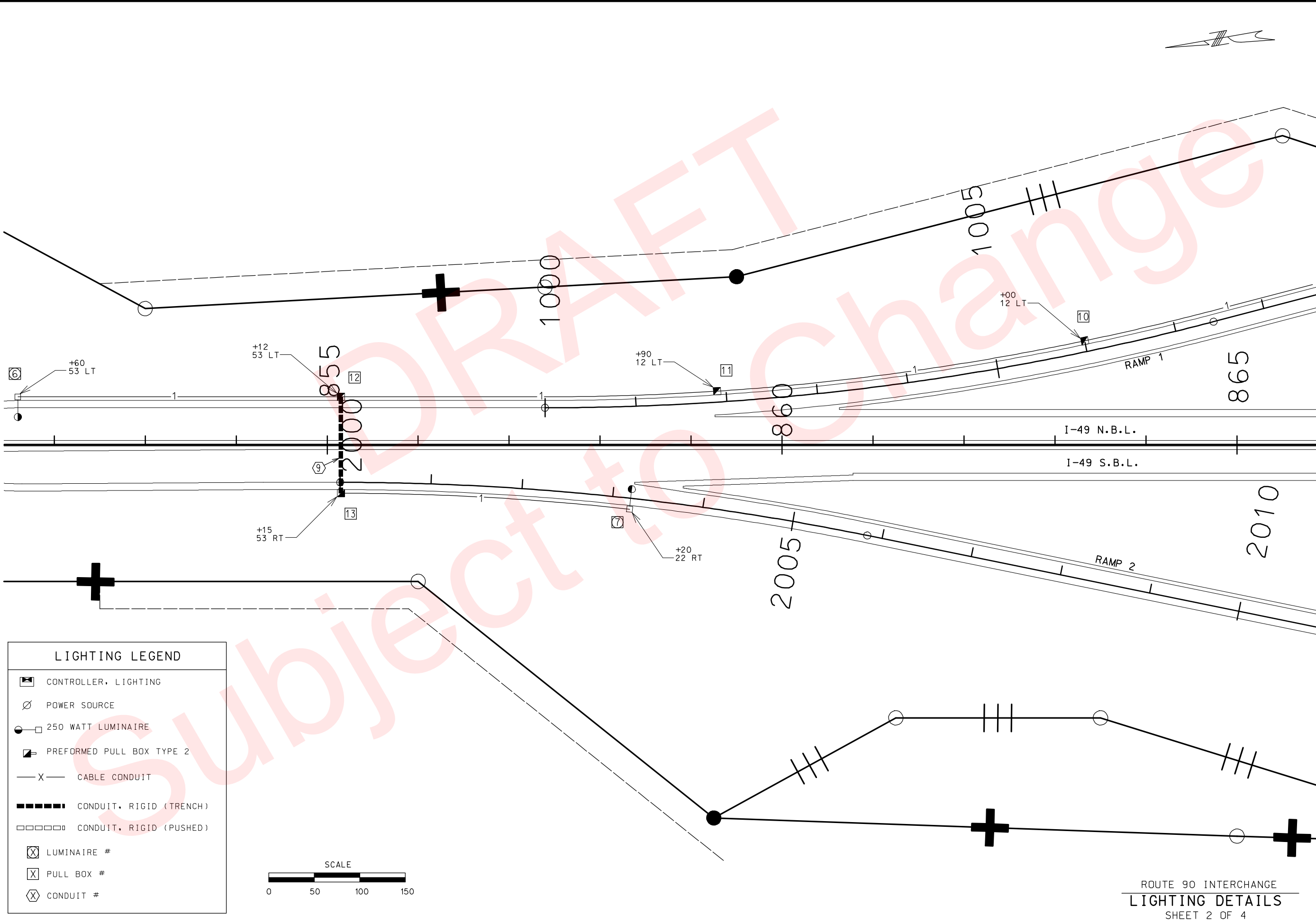
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

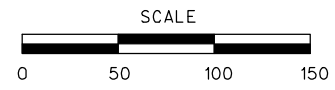


REV.













LIGHTING LEGEND

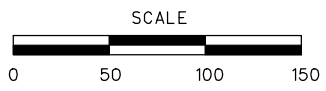
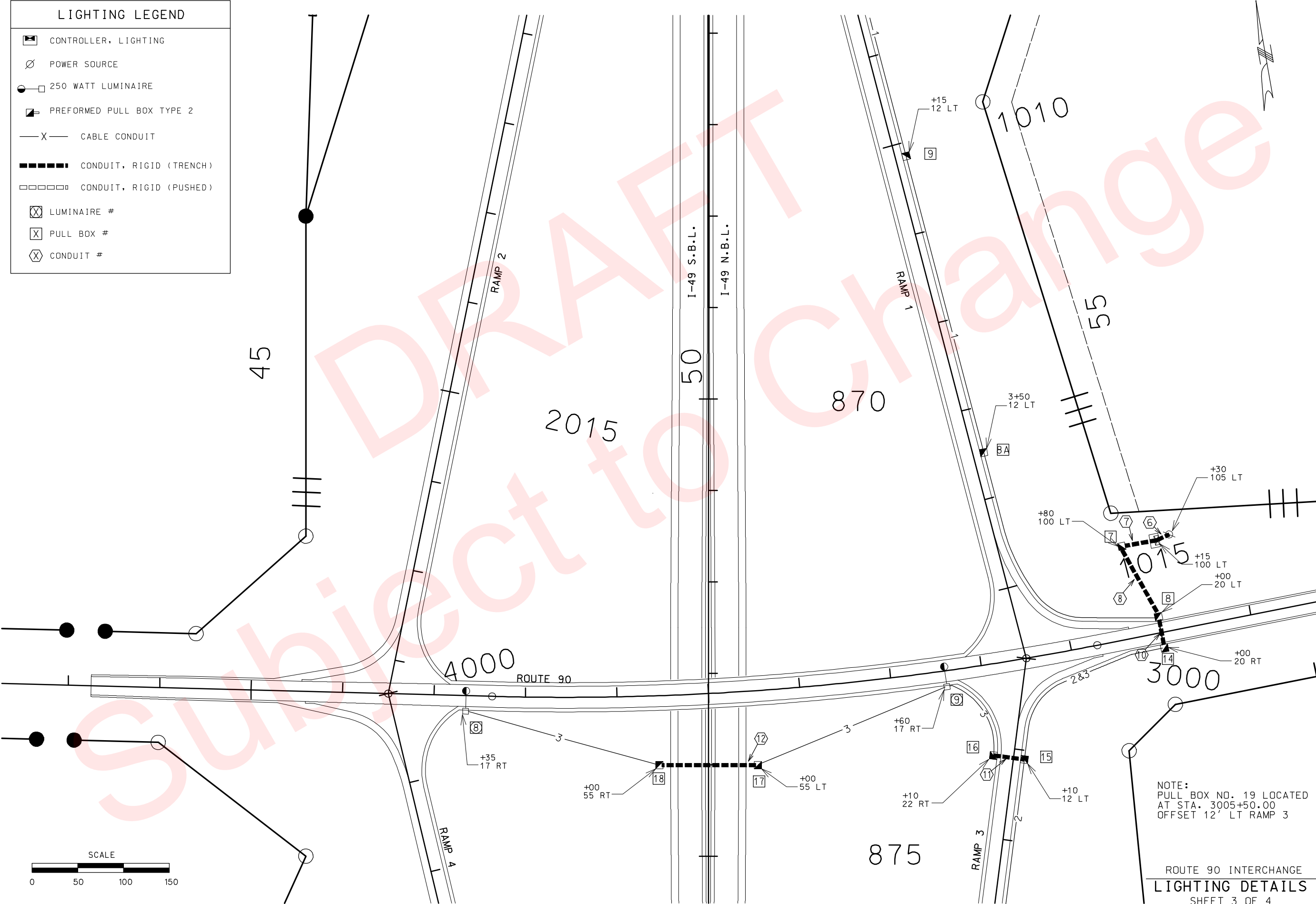
- CONTROLLER, LIGHTING
- POWER SOURCE
- 250 WATT LUMINAIRE
- PREFORMED PULL BOX TYPE 2
- CABLE CONDUIT
- CONDUIT, RIGID (TRENCH)
- CONDUIT, RIGID (PUSHED)
- LUMINAIRE #
- PULL BOX #
- CONDUIT #



ROUTE 90 INTERCHANGE
LIGHTING DETAILS
SHEET 2 OF 4

LIGHTING LEGEND

-  CONTROLLER, LIGHTING
-  POWER SOURCE
-  250 WATT LUMINAIRE
-  PREFORMED PULL BOX TYPE 2
-  CABLE CONDUIT
-  CONDUIT, RIGID (TRENCH)
-  CONDUIT, RIGID (PUSHED)
-  LUMINAIRE #
-  PULL BOX #
-  CONDUIT #



NOTE:
PULL BOX NO. 19 LOCATED
AT STA. 3005+50.00
OFFSET 12' LT RAMP 3


ROUTE 90 INTERCHANGE
LIGHTING DETAILS
SHEET 3 OF 4

"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

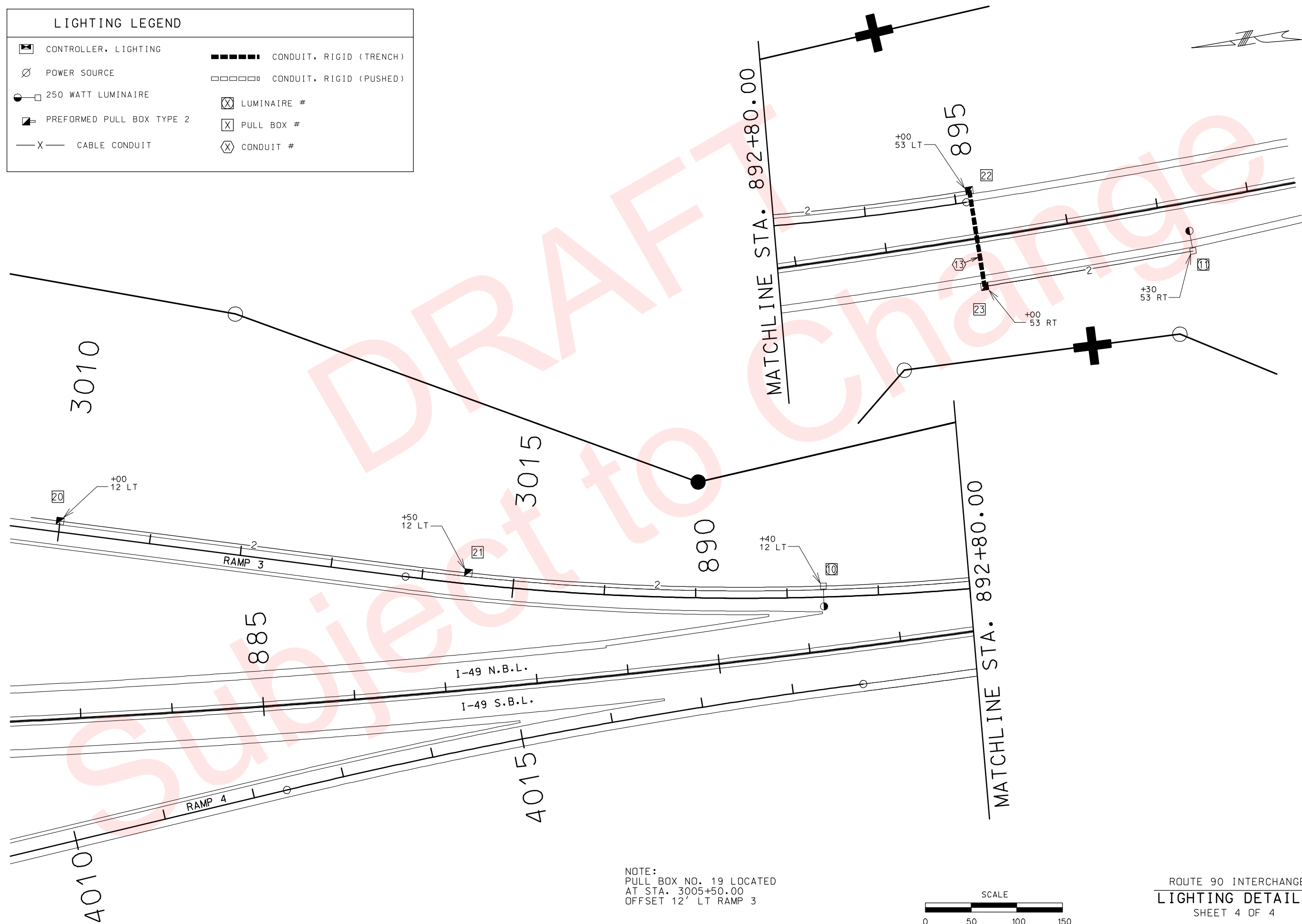


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

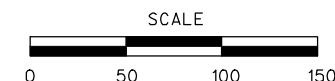
REV.

LIGHTING LEGEND

-  CONTROLLER, LIGHTING
-  POWER SOURCE
-  250 WATT LUMINAIRE
-  PREFORMED PULL BOX TYPE 2
-  CABLE CONDUIT
-  CONDUIT, RIGID (TRENCH)
-  CONDUIT, RIGID (PUSHED)
-  LUMINAIRE #
-  PULL BOX #
-  CONDUIT #



NOTE:
 PULL BOX NO. 19 LOCATED
 AT STA. 3005+50.00
 OFFSET 12' LT RAMP 3



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.

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."

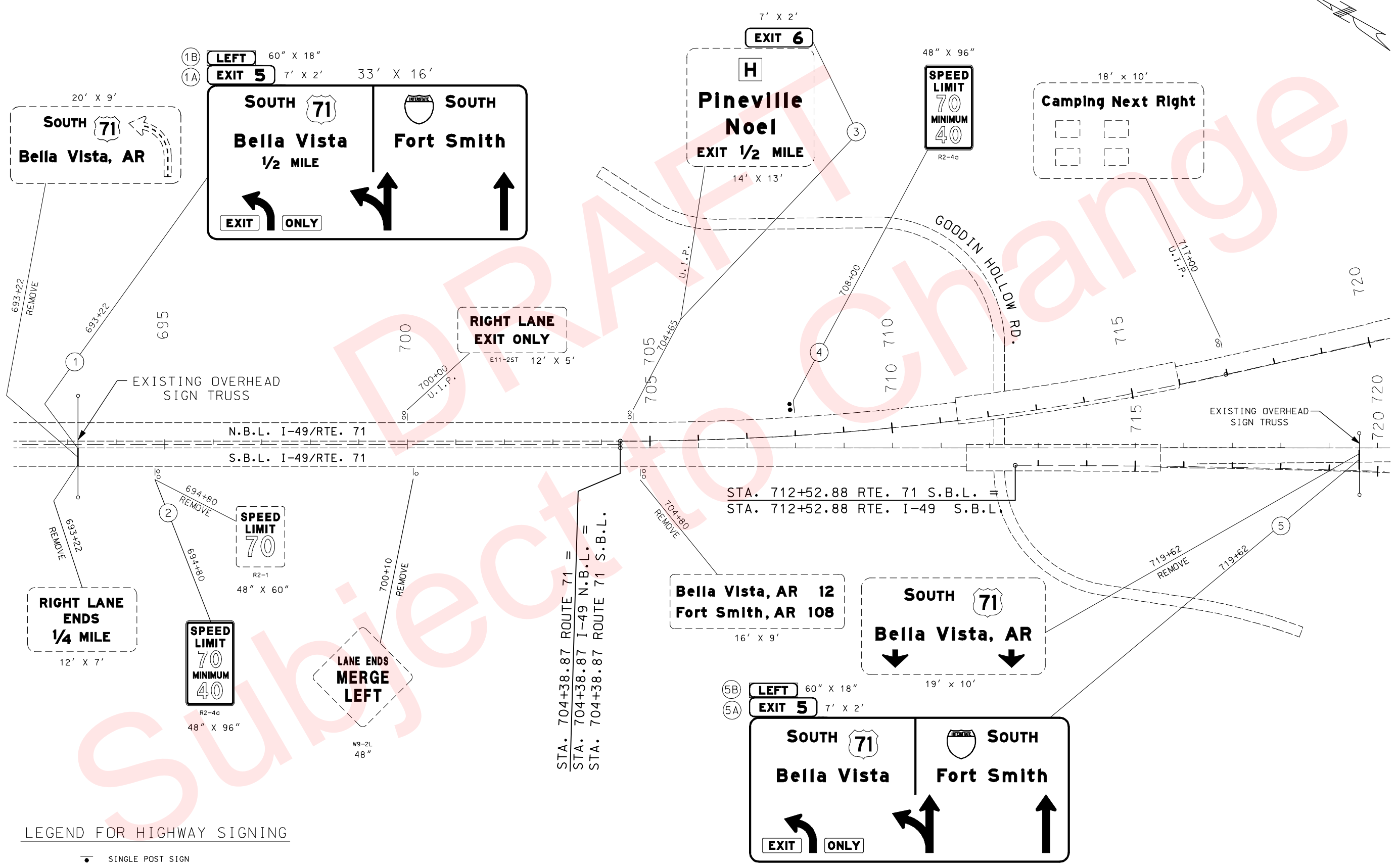
DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 82
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

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. 1



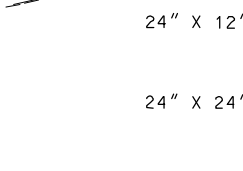
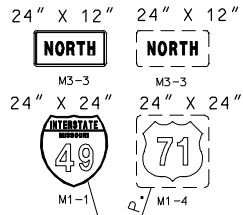
I-49
 HIGHWAY SIGNING
 SHEET 1 OF 27

Pineville 1
Anderson 6

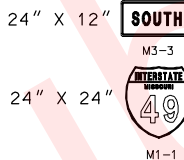
12' X 6'

H
Pineville
Noel
EXIT 1 MILE

14' X 13'



6' X 5'



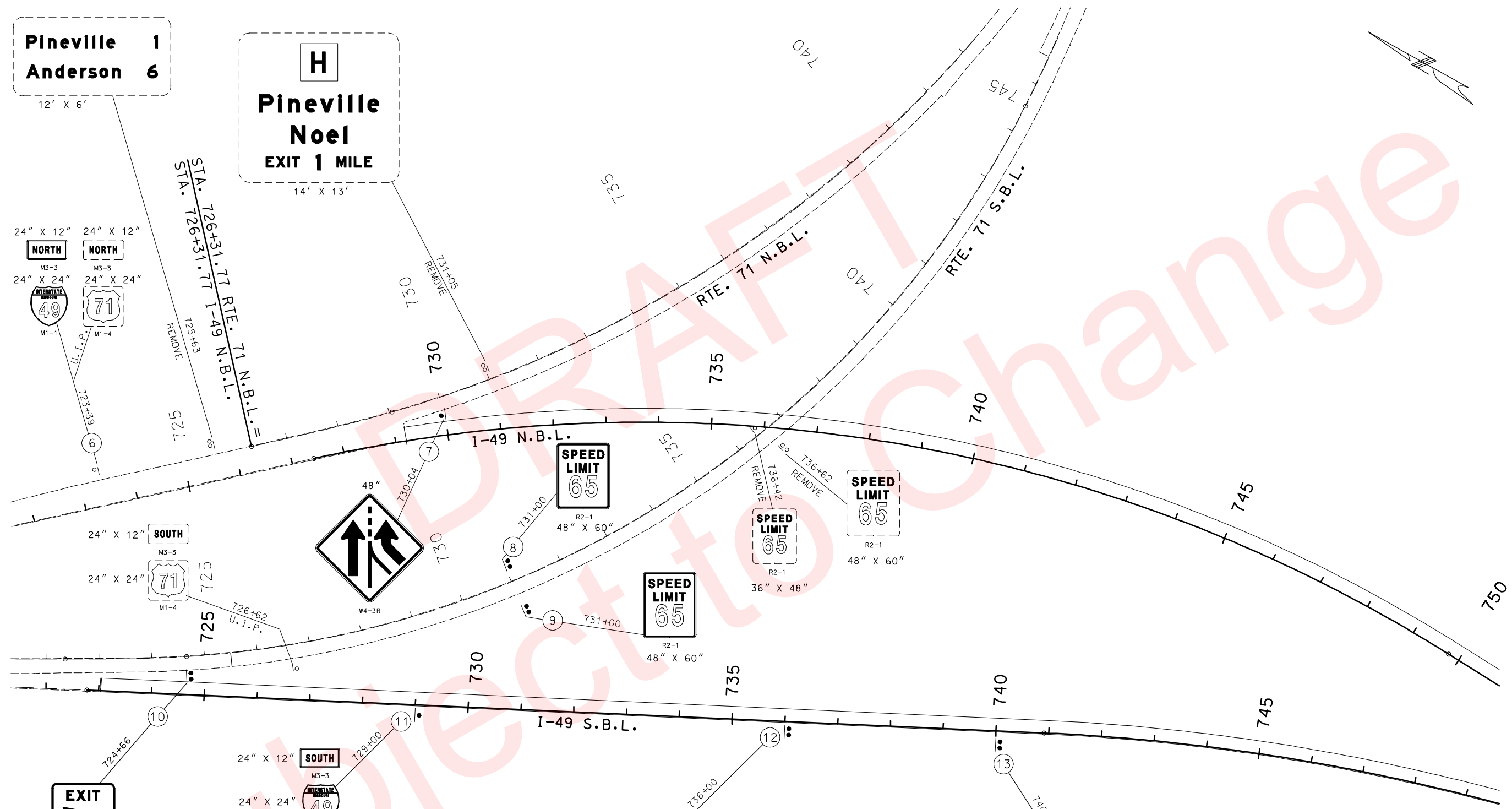
48" X 96"

Fayetteville 46
Fort Smith 107

16' X 6'

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)

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. 84
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)



775 780 785 790 795 800

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

7' X 2'
EXIT 2 (14A)
90
Jane Noel
1 MILE
10' X 14'

Pineville 3
Joplin 40
13' X 6'

SPEED LIMIT
70
MINIMUM
40
R2-4a
48" X 96"

NORTH 24" X 12"
M3-1
49 24" X 24"
M1-1

STA. 857+39.42 I-49 =
PC STA. 1000+00.00 RAMP 1

STA. 855+14.32 I-49 =
PC STA. 2000+00.00 RAMP 2

7' X 2'
EXIT 2 (18A)
90
Jane Noel
↑
10' X 15'

EXIT
40
M.P.H.
W13-2
48" X 60"

EXIT
2
↑
6' X 5'

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

DRAFT
Subject to Change

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

DATE PREPARED	
02/04/2010	
ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	85
COUNTY	
MCDONALD	
JOB NO.	
J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

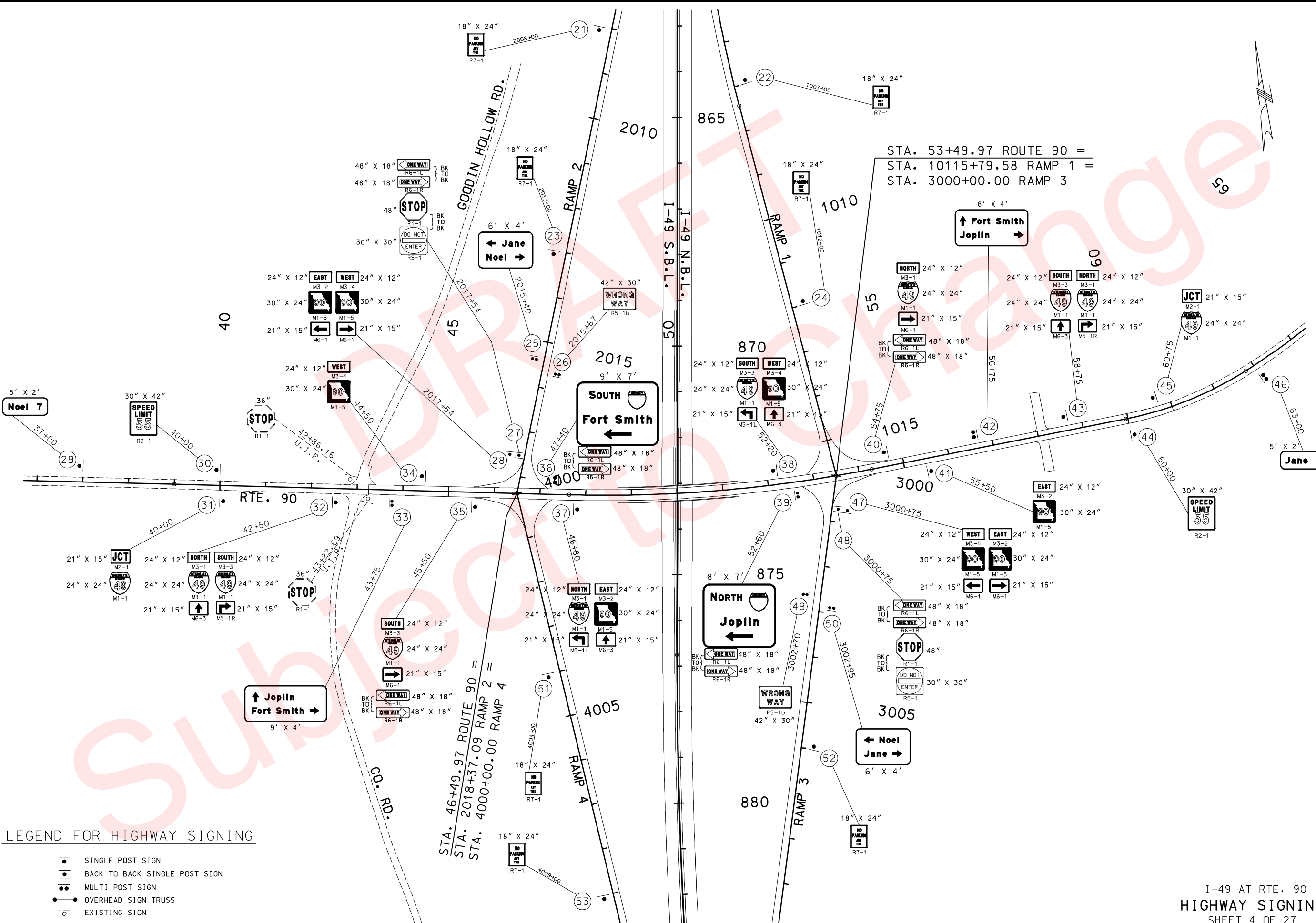
DESCRIPTION	DATE

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.



LEGEND FOR HIGHWAY SIGNING

- SINGLE POST SIGN
- BACK TO BACK SINGLE POST SIGN
- MULTI POST SIGN
- OVERHEAD SIGN TRUSS
- EXISTING SIGN

I-49 AT RTE. 90
HIGHWAY SIGNING
SHEET 4 OF 27

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

DATE PREPARED
02/04/2010

ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 86

COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.

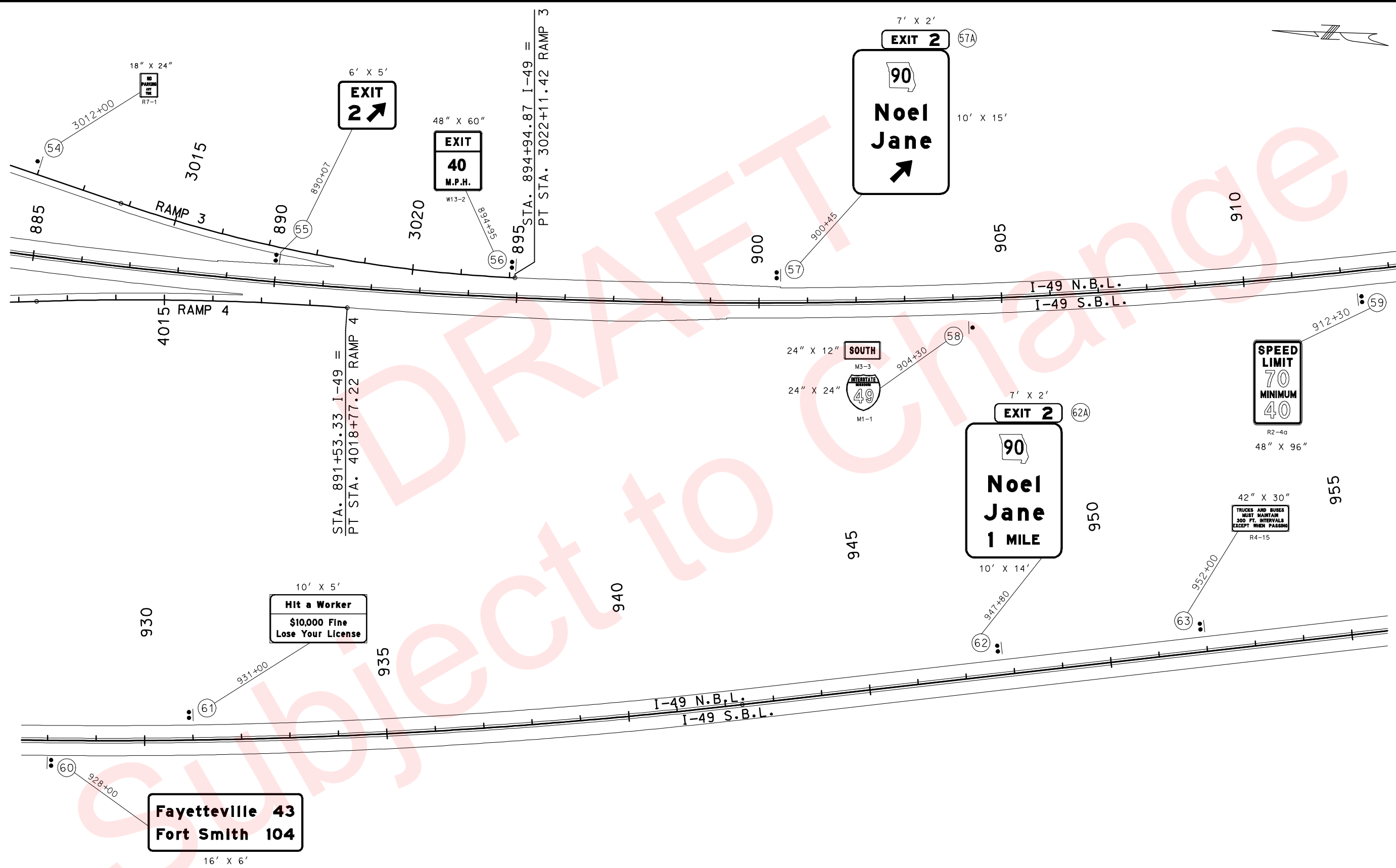
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



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 5 OF 27

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

DATE PREPARED

02/04/2010

ROUTE STATE

49 MO

DISTRICT SHEET NO.

7 87

COUNTY

McDONALD

JOB NO.

J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

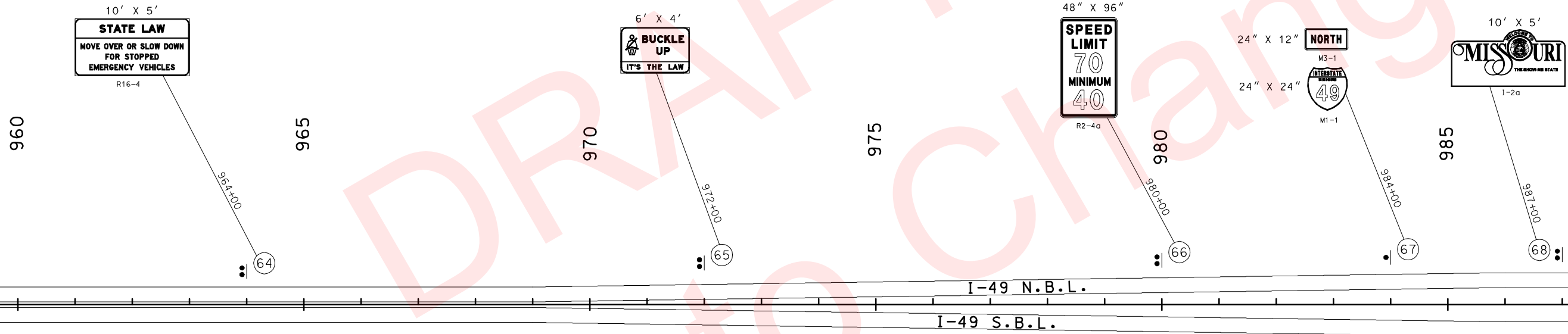
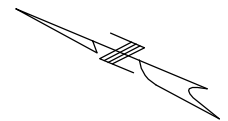
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

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 6 OF 27

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

SIGNING SHEET 7 OF 27

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

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.

Main data table with columns for SIGN NO., STATION, SIGN DTL. SHT. NO., LOCATION, SIGN SIZE, PIPE POST, STRUCTURAL STEEL POSTS, BACKING BARS, U-CHANNEL POST, WOOD POSTS, PERF. STEEL SQ., BREAKAWAY ASSEMBLY, CONC FTG'S EMBD, CONC FTG'S BOLT DOWN, HORZ CLEAR IF NOT STD, DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING, CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.

SUB-TOTAL

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

SIGNING SHEET 9 OF 27

STANDARD SIGN ASSEMBLIES

SIGN SUMMARY

Table with columns: SIGN NUMBER, STA., LOCATION, TYPE (R1-1 to I2-4), SIGN DESCRIPTION, SIZES & NUMBER OF EACH. Includes various sign icons like STOP, SPEED LIMIT, WRONG WAY, etc.

Table with columns: STANDARD SIGN OR SPECIAL SIGN NUMBER, SIGN DETAIL SHEET NO., NO. EACH, SIZE, SHR2L-1, STR2L-1, SHR2L-3, STR2L-3, 36" STOP EACH. Includes sign icons and summary totals.

Administrative information including DATE PREPARED (02/04/2010), ROUTE (49), STATE (MO), COUNTY (McDONALD), JOB NO. (J7P0601), and MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION logo.

SIGNING
SHEET 10 OF 27

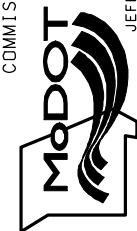
STANDARD SIGN ASSEMBLIES

SIGN SUMMARY

SIGN NUMBER	STATION	LOCATION	TYPE																			
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH																			

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET				36" STOP EACH
			SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	
1A, 5A		D-31	2	7' x 2'			28.00
1		D-31	1	33' x 16'			528.00
5		D-31	1	33' x 15'			495.00
20, 55		D-31	2	6' x 5'			60.00
10		D-31	1	6' x 5'			30.00
14A, 18A, 43A, 48A		D-31	4	7' x 2'			56.00
62		D-31	1	10' x 14'			140.00
29		D-31	1	5' x 2'			10.00
46		D-31	1	5' x 2'			10.00
42		D-31	1	8' x 4'			32.00
33		D-31	1	9' x 4'			36.00
15		D-31	1	13' x 6'			78.00
50		D-31	1	6' x 4'			24.00
25		D-31	1	6' x 4'			24.00
60		D-31	1	16' x 6'			96.00
13		D-31	1	16' x 6'			96.00
18		D-31	1	10' x 15'			150.00
57		D-31	1	10' x 15'			150.00
14		D-31	1	10' x 14'			140.00
36		D-31	1	9' x 7'			63.00
39		D-31	1	8' x 7'			56.00
3		D-31	1	7' x 2'			14.00
TOTAL USE				609.27			2505.00
USE				610.0			2505.00

DATE PREPARED	
02/04/2010	
ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	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)	



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. 92
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

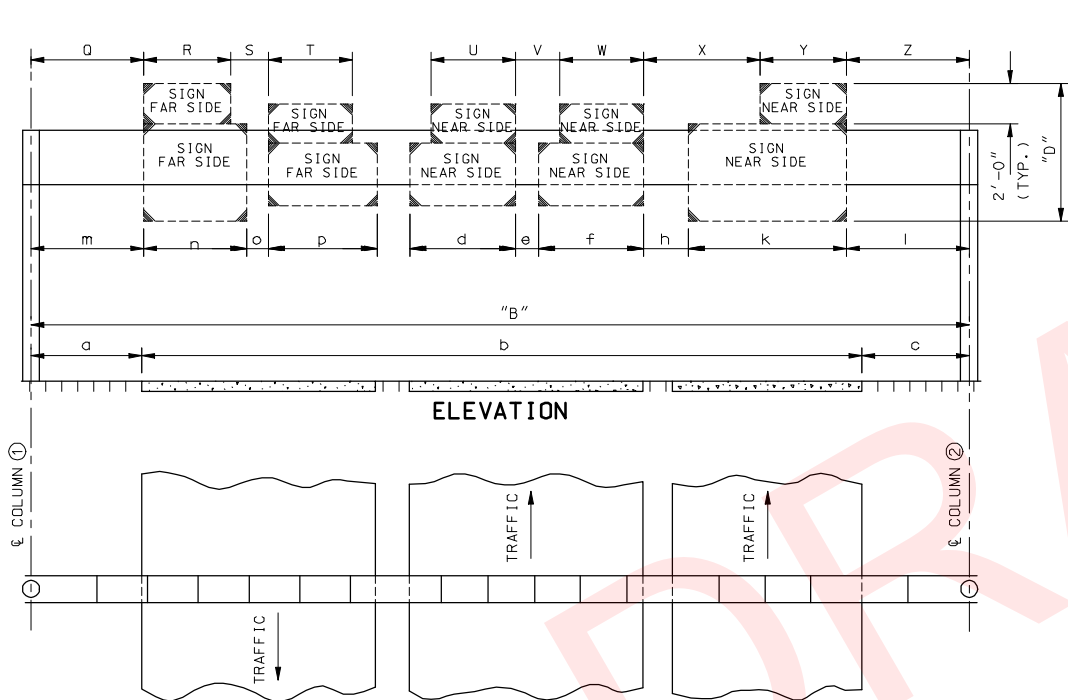
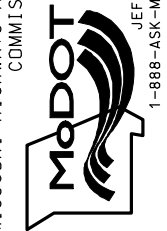
PROJECT NO.

BRIDGE NO.

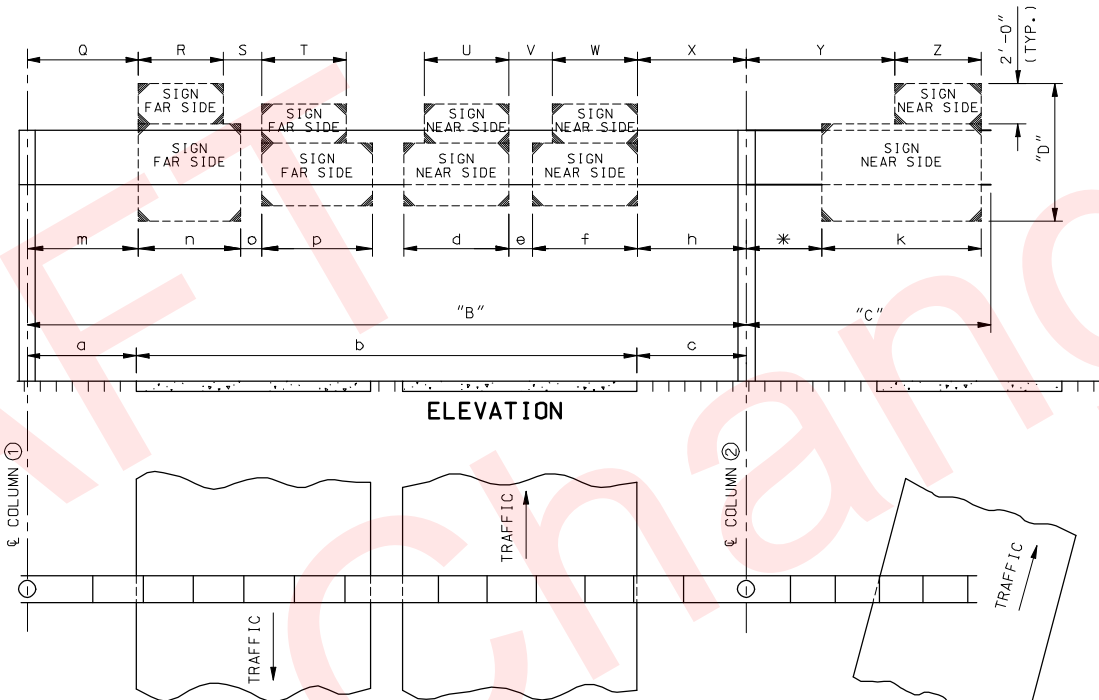
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



PLAN DIMENSIONS TYPE 'B' SIGN BRIDGE



PLAN 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		CHORD		ROADWAY DESCRIPTION			"D"	SIGN SPACING										COLUMN DATA				CONCRETE FOOTINGS (CU. YD.)				
		Type	"B"	"C"	ALUM.	STEEL	a	b		c	NEAR SIDE					FAR SIDE					COLUMN 1		COLUMN 2					
																				H	TYPE	H	TYPE					
1	693+22	B	146.5		6x3/8	6x6x1/2	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 1/2 x 1/4	5x5x1/2	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		CHORD		ROADWAY DESCRIPTION			"D"	SIGN SPACING																		
		Type	"B"	"C"	ALUM.	STEEL	a	b		c	NEAR SIDE				FAR SIDE													
											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.

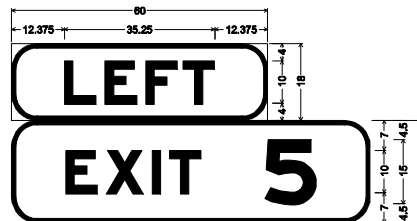
ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.S. D1.2 STRUCTURAL WELDING CODE - ALUMINUM, EXCEPT AS AMENDED BY SECTION 903 OF THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL ALUMINUM FILLET WELDS SHALL BE 3/16" UNLESS OTHERWISE SHOWN.

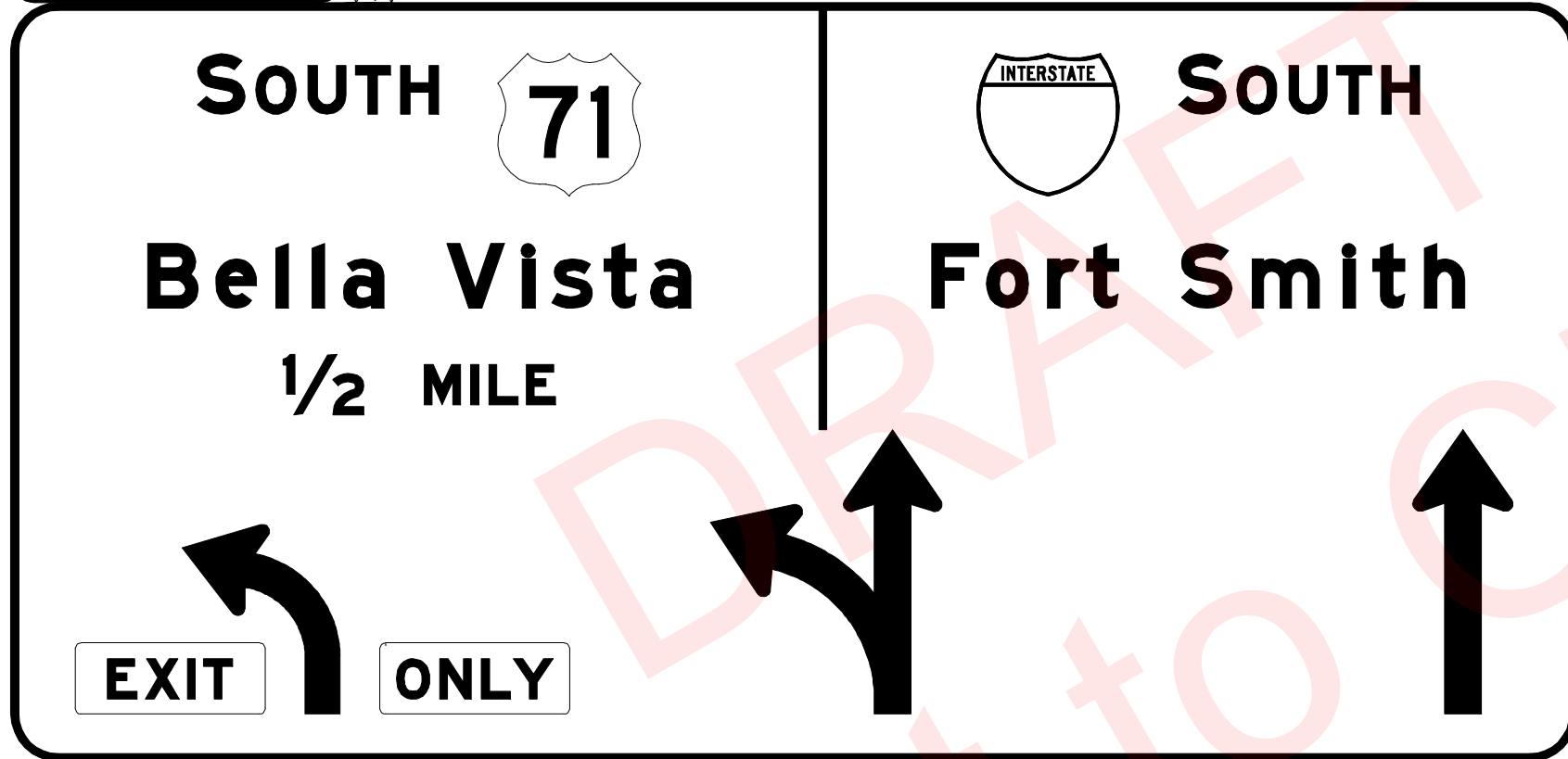
COATING: ALL COLUMNS SHALL BE GALVANIZED AS PER AASHTO M 111. ALL STRUCTURAL STEEL (EXCEPT THE COLUMNS) SHALL BE CLEANED AND COATED WITH SYSTEM G IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTIONS 712.12 AND 903.3.4. COLOR OF THE FINISHED COAT SHALL BE GRAY.

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.

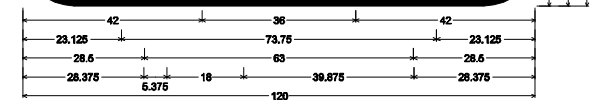
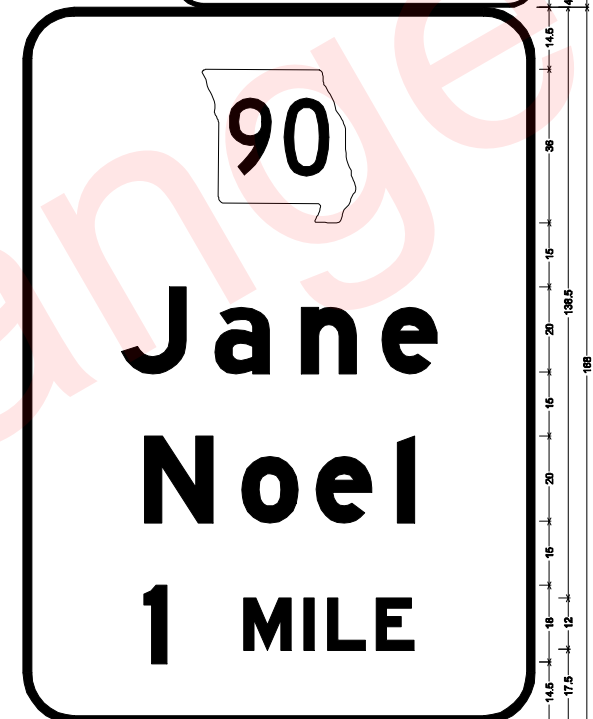
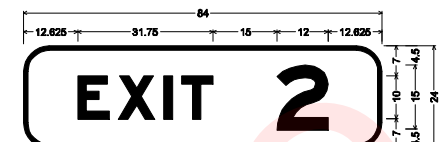
PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.



SIGN NO.	1, 1A, 1B
STATION	693+22
ROADWAY	I-49/RTE. 71

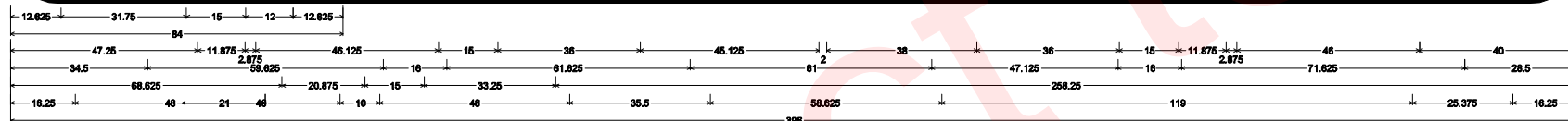


SIGN NO.	14,14A
STATION	802+34
ROADWAY	I-49



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	
28.600	51.250	66.750	87.750	
I	M	I	L	E
28.375	51.750	65.875	71.375	82.750



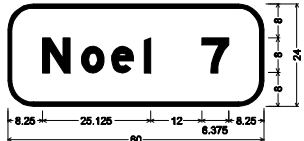
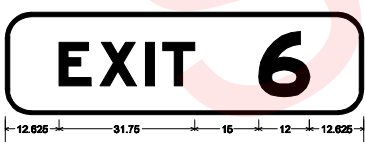
6.000" Radius, 1.000" Border, Black on Yellow;
 [LEFT] E Mod;
 6.000" Radius, 1.000" Border, White on Green;
 [EXIT 5] E Mod;
 12.000" Radius, 2.000" Border, White on Green;
 I | E Mod; [SOUTH] E Mod; [Bella Vista] E Mod; [1/2] E Mod; [MILE] E Mod; [SOUTH] E Mod; [Fort Smith] E Mod;
 Table of letter and object lefts.

L	E	F	T	
12.375	21.875	31.375	40.125	
S	O	U	T	H
47.250	62.000	75.125	87.125	98.500
B	a	l	l	a
34.900	51.750	67.000	78.125	84.000
1/2	M	I	L	E
66.625	104.500	118.250	120.875	130.250
18.250	49.250	83.250	178.750	354.375

SIGN NO.	3
STATION	704+65
ROADWAY	I-49/RTE. 71

SIGN NO.	46
STATION	63+00
ROADWAY	RTE. 90

SIGN NO.	29
STATION	37+00
ROADWAY	RTE. 90



E1-5ST STR2L3; 6.000" Radius, 1.000" Border, White on Green;
 [EXIT 6] E Mod;
 Table of letter and object lefts.

D2-1ST STR2L3;
 6.000" Radius, 1.000" Border, White on Green;
 [Jane] E Mod; [6] E Mod;
 Table of letter and object lefts.

D2-1ST STR2L3;
 6.000" Radius, 1.000" Border, White on Green;
 [Noel] E Mod; [7] E Mod;
 Table of letter and object lefts.

SIGN NO.	20
STATION	859+37
ROADWAY	I-49

SIGN NO.	55
STATION	890+07
ROADWAY	I-49

SIGN NO.	10
STATION	724+66
ROADWAY	I-49/RTE. 71

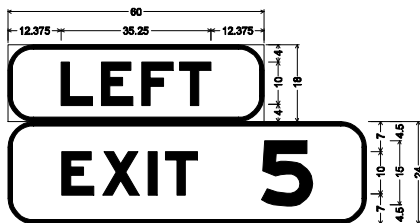


E5-1A5T-72 STR2L3;
 6.000" Radius, 2.000" Border, White on Green;
 [EXIT] E Mod; [2] E Mod; Arrow 133 - 30.000" 45";
 Table of letter and object lefts.

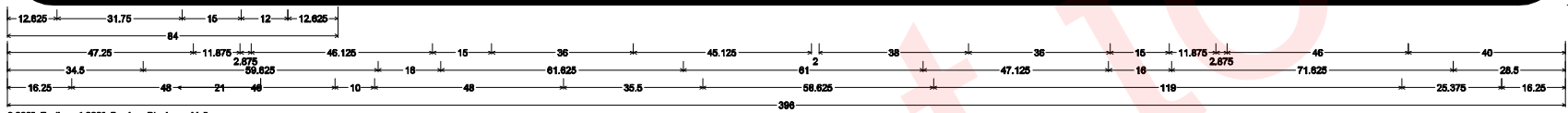
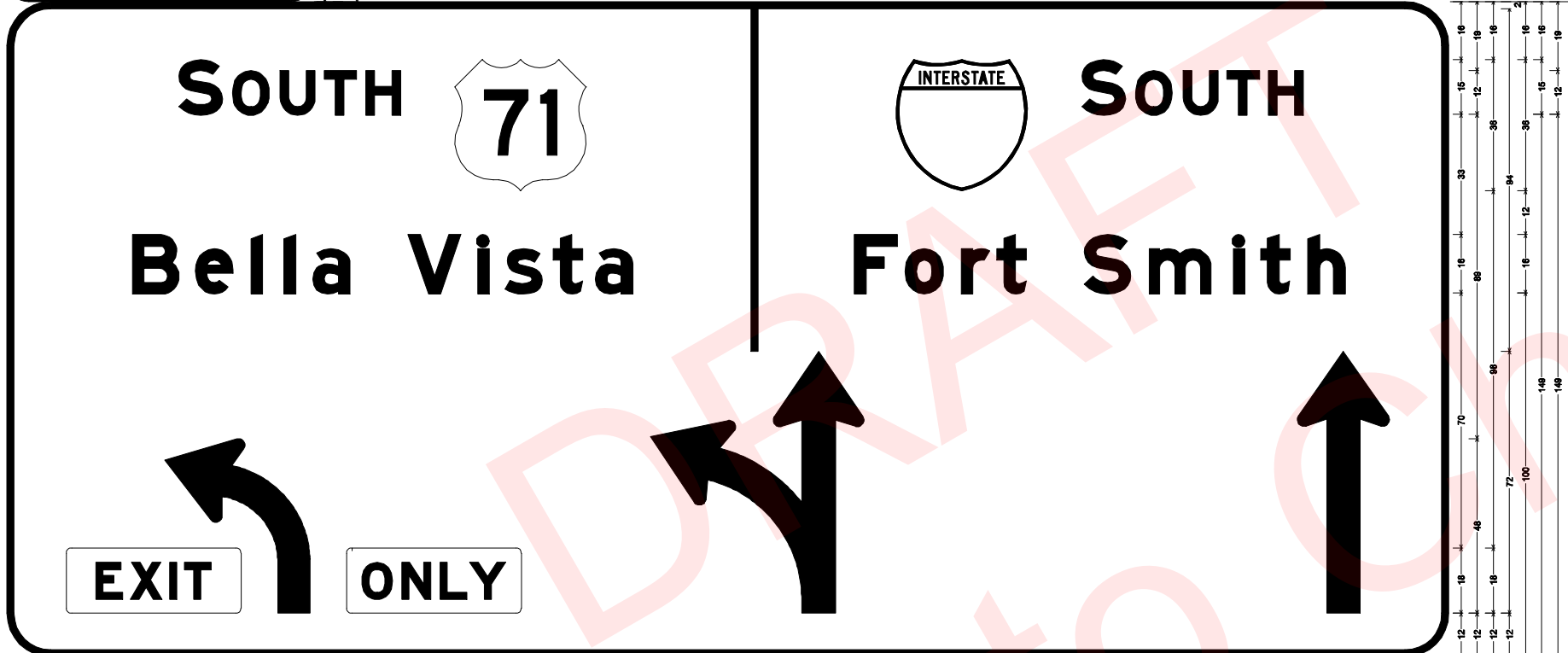
E5-1A5T-72 STR2L3;
 6.000" Radius, 2.000" Border, White on Green;
 [EXIT] E Mod; [2] E Mod; Arrow 133 - 30.000" 45";
 Table of letter and object lefts.

E5-1A5T-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.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 DATE DESCRIPTION
 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. 93
 COUNTY McDONALD
 JOB NO. J7P0601
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)
 MODOT



SIGN NO.	5,5A,5B
STATION	719+62
ROADWAY	I-49/RTE. 71

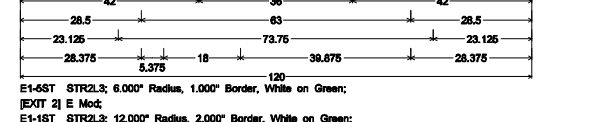
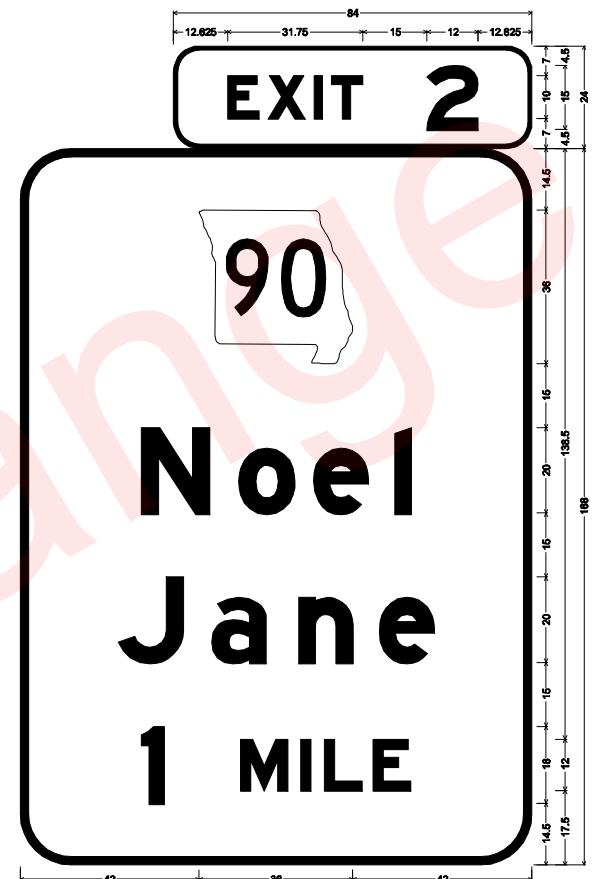


6,000" Radius, 1,000" Border, Black on Yellow;
 [LEFT] E Mod;
 6,000" Radius, 1,000" Border, White on Green;
 [EXIT 5] E Mod;
 12,000" Radius, 2,000" Border, White on Green;
 [] E Mod; [SOUTH] E Mod; [Bella Vista] E Mod; [SOUTH] E Mod; [Fort Smith] E Mod;

Table of letter and object lefts.

L	E	F	T
12.375	21.875	31.375	40.125
E	X	I	T
12.625	22.125	32.625	37.000
S	O	U	T
47.250	62.000	75.125	87.125
B	e	l	l
34.500	51.750	67.000	76.125
V	i	s	t
110.125	129.250	136.750	150.000
F	o	r	t
282.000	292.750	248.625	282.000
S	m	I	t
271.875	285.875	313.750	336.750
t	e	h	
344.250	367.250		
1	8	2	5
18.250	43.250	93.250	178.750

SIGN NO.	62,62A
STATION	947+80
ROADWAY	I-49

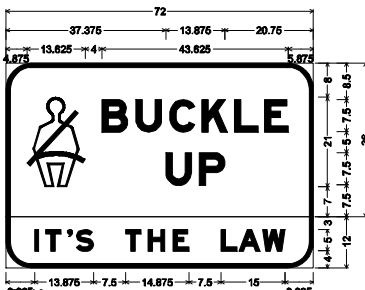


E1-6ST STR2L3; 6,000" Radius, 1,000" Border, White on Green;
 [EXIT 2] E Mod;
 E1-16T STR2L3; 12,000" Radius, 2,000" Border, White on Green;
 State Highway 90 M1-9a3 18,000" C; [Noel] E Mod; [Jane] E Mod; [1] E Mod; [MILE] E Mod;

Table of letter and object lefts.

E	X	I	T
12.625	22.125	32.625	37.000
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
28.375	51.750	65.875	71.375

SIGN NO.	65
STATION	972+00
ROADWAY	I-49

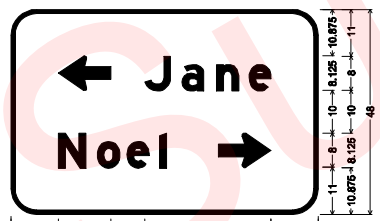


D1-2ST STR2L3; 6,000" Radius, 1,000" Border, Black on White;
 Symbol R015 White; [BUCKLE] E Mod; [UP] E Mod;
 6,000" Radius, 1,000" Border, White on Black;
 [IT'S THE LAW] E Mod 150% spacing;

Table of letter and object lefts.

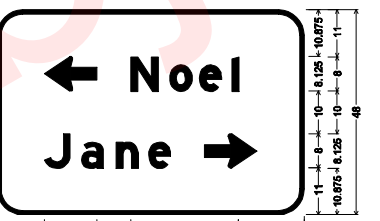
B	U	C	K	L	E
4.875	22.500	30.375	38.250	45.875	53.500
U	P	I	T	S	L
37.375	45.250	14.500	16.500	28.000	33.250
1	T	S	L	A	W
6.625	8.125	14.500	16.500	28.000	33.250
5	0	3	7	5	7
50.375	54.625	60.125			

SIGN NO.	25
STATION	2015+40
ROADWAY	RAMP 2



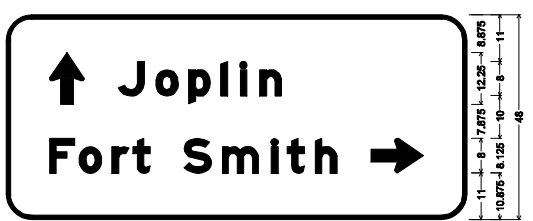
D1-2ST STR2L3; 6,000" Radius, 1,000" Border, White on Green;
 Standard Arrow Custom 12,250" X 8,125" 180°;
 [Jane] E Mod; [Noel] E Mod;
 Standard Arrow Custom 12,250" X 8,125" 0°;

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°;

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°;

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°;

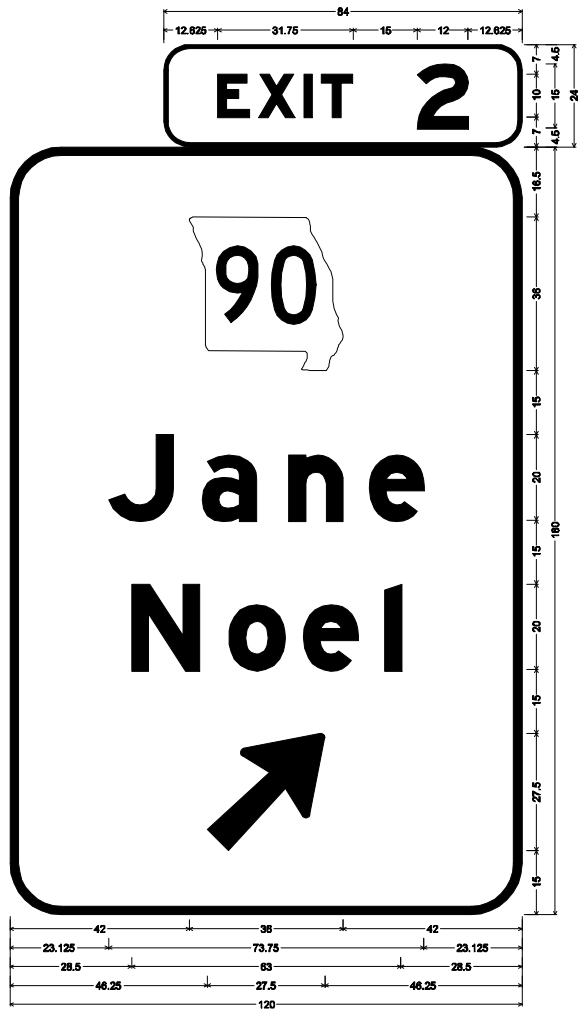
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."
 DATE PREPARED: 02/04/2010
 ROUTE: 49 STATE: MO
 DISTRICT: 7 SHEET NO.: 94
 COUNTY: McDONALD
 JOB NO.: J7P0601
 CONTRACT ID.:
 PROJECT NO.:
 BRIDGE NO.:
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 105 WEST CAPITOL JEFFERSON CITY, MO 65102
 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 NO.	18,18A
STATION	849+60
ROADWAY	I-49

SIGN NO.	57,57A
STATION	900+45
ROADWAY	I-49

SIGN NO.	36
STATION	47+40
ROADWAY	RTE. 90

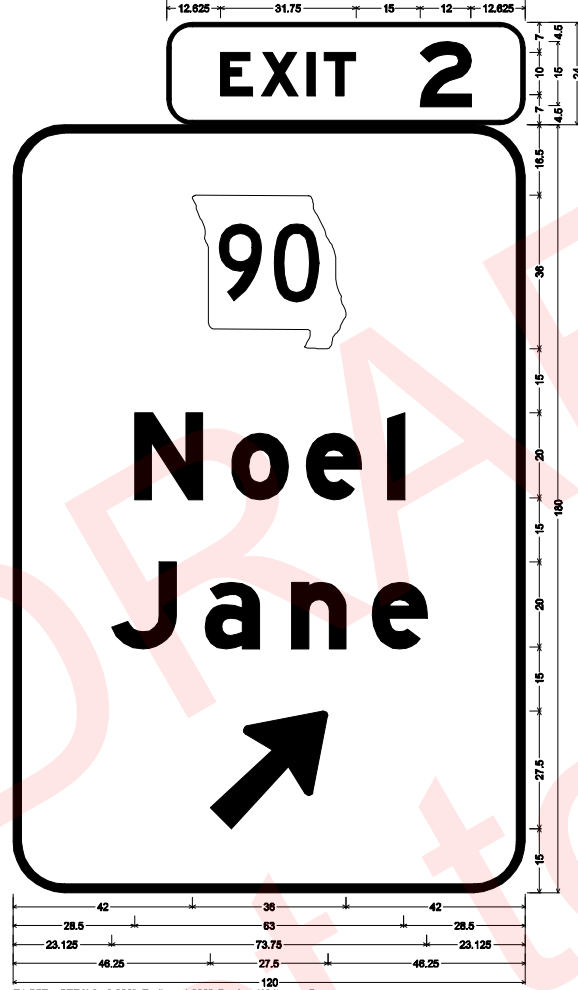
SIGN NO.	39
STATION	52+60
ROADWAY	RTE. 90



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	46.000	65.250	84.125	
N	o	e	l	
29.500	51.250	68.750	87.750	
A				
48.250				

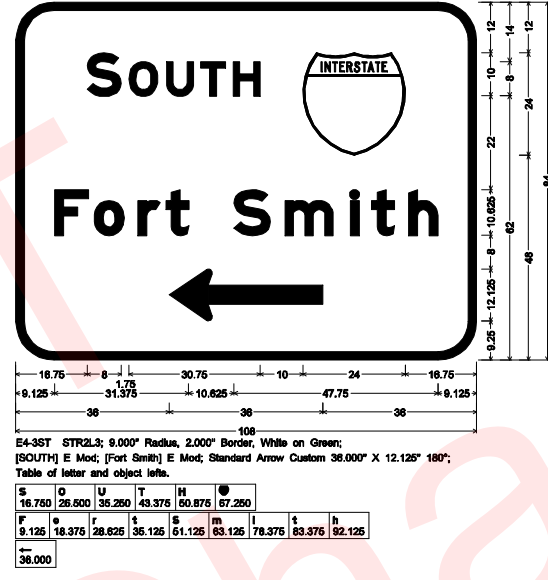
SIGN NO.	60
STATION	928+00
ROADWAY	I-49



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	
29.500	51.250	68.750	87.750	
J	a	n	e	
23.125	46.000	65.250	84.125	
A				
48.250				

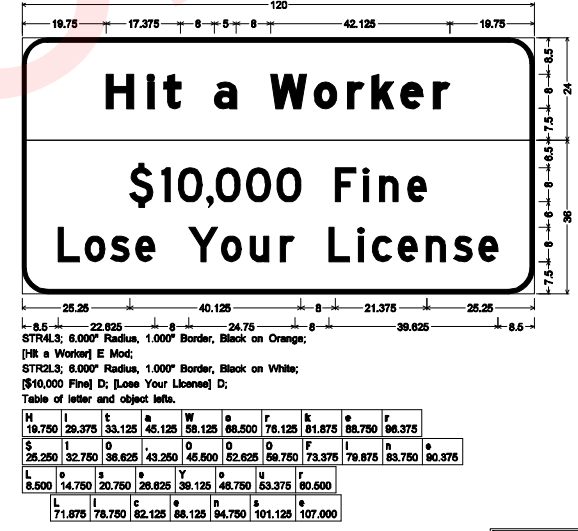
SIGN NO.	13
STATION	740+00
ROADWAY	I-49



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	I	N	T
16.750	26.800	36.250	43.375	50.875	57.250		
F	o	r	t	S	m	i	t
9.125	18.375	28.625	35.125	51.125	63.125	78.375	83.375
A							
38.000							

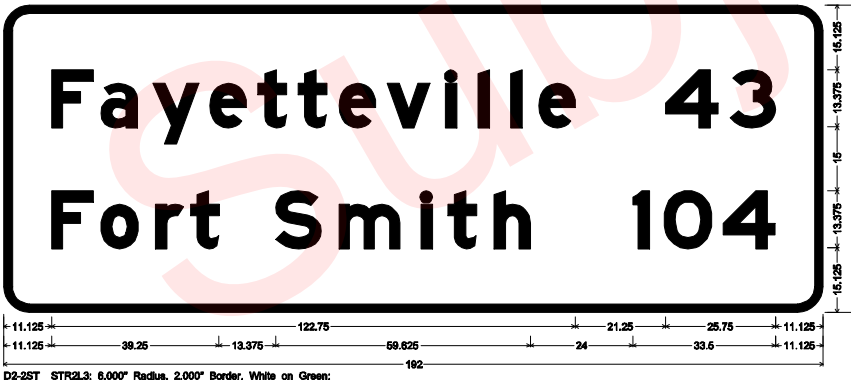
SIGN NO.	61
STATION	931+00
ROADWAY	I-49



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
10.750	29.375	33.125	45.125	58.125	66.500	78.125	81.875	88.750	96.375
\$	1	0	,	0	0	0	0		
26.250	32.750	38.625	43.250	46.500	52.625	59.750	73.375	78.875	90.375
L	o	s	e	y	o	u	r		
8.800	14.750	20.750	26.625	39.125	48.750	63.375	80.500		
F	i	n	e						
71.875	78.750	82.125	88.125	94.750	101.125	107.000			

SIGN NO.	15
STATION	830+00
ROADWAY	I-49



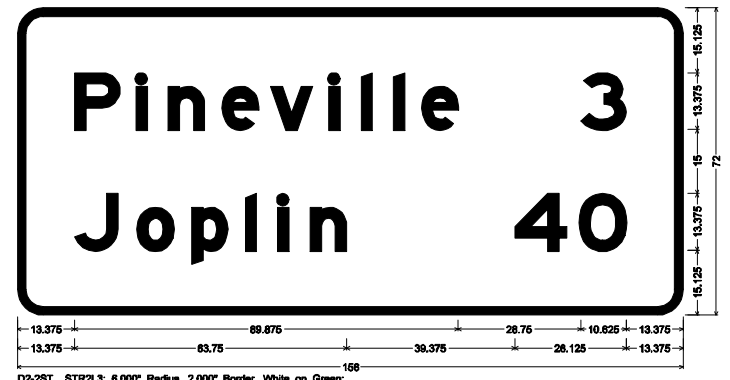
D2-2ST STR2L3; 6.000" Radius, 2.000" Border, White on Green;
[Fayetteville] E Mod; [43] E Mod; [Fort Smith] E Mod; [104] E Mod;
Table of letter and object lefts.

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	88.875	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	198.500		



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		



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		

SIGN DETAILS
SHEET 14 OF 27

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)

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 STATE

49 MO

DISTRICT SHEET NO.

7 96

COUNTY

McDONALD

JOB NO.

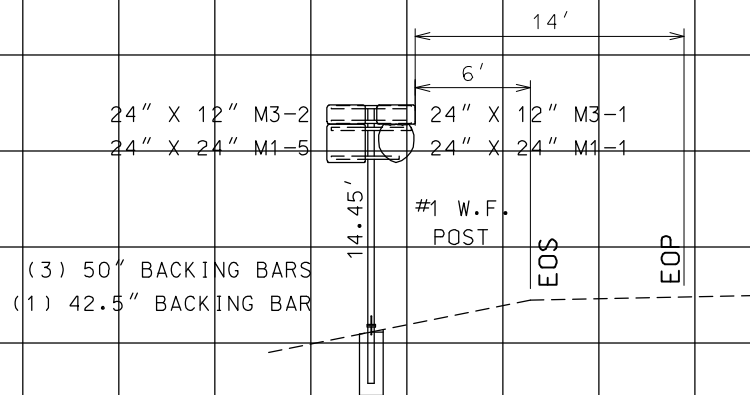
JTP0601

CONTRACT ID.

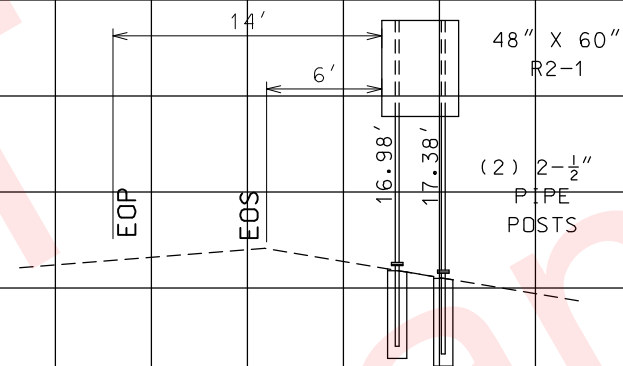
PROJECT NO.

BRIDGE NO.

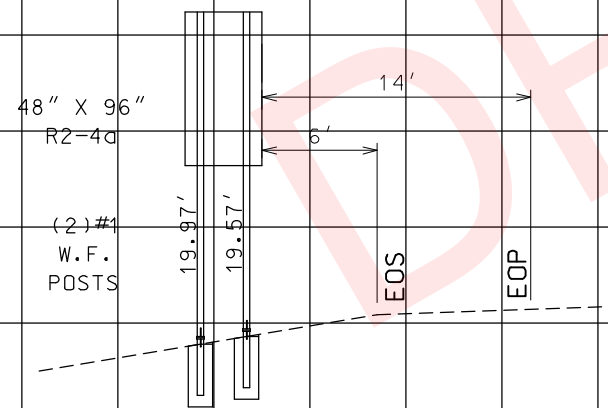
REV. IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



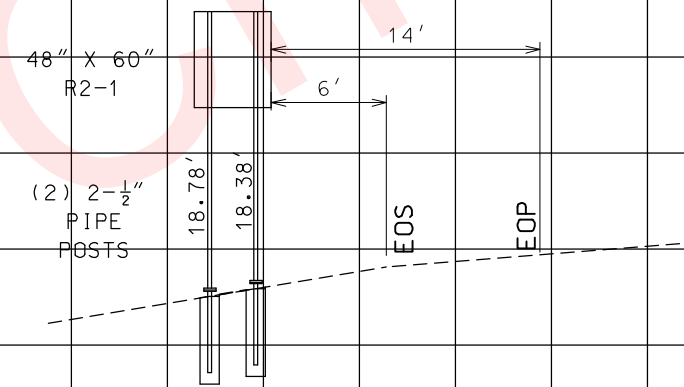
SIGN 6
723+39 LT
I-49 NBL



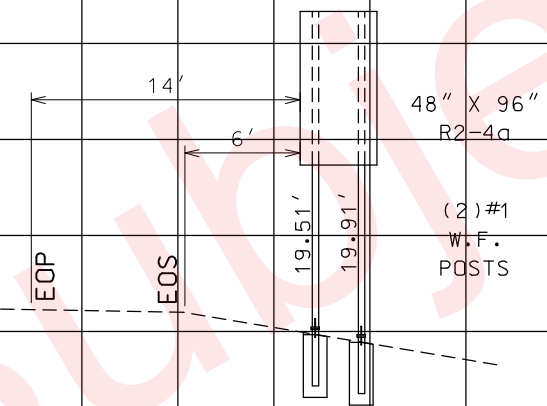
SIGN 9
731+00 RT
RTE 71 SBL



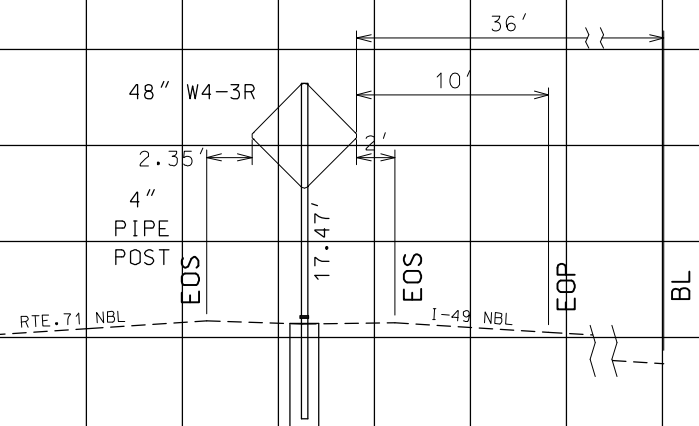
SIGN 4
708+00 LT
I-49 NBL



SIGN 8
731+00 LT
RTE 71 SBL



SIGN 2
694+80 LT
I-49



SIGN 7
730+04 LT
I-49 NBL

SIGN SECTIONS
SHEET 15 OF 27

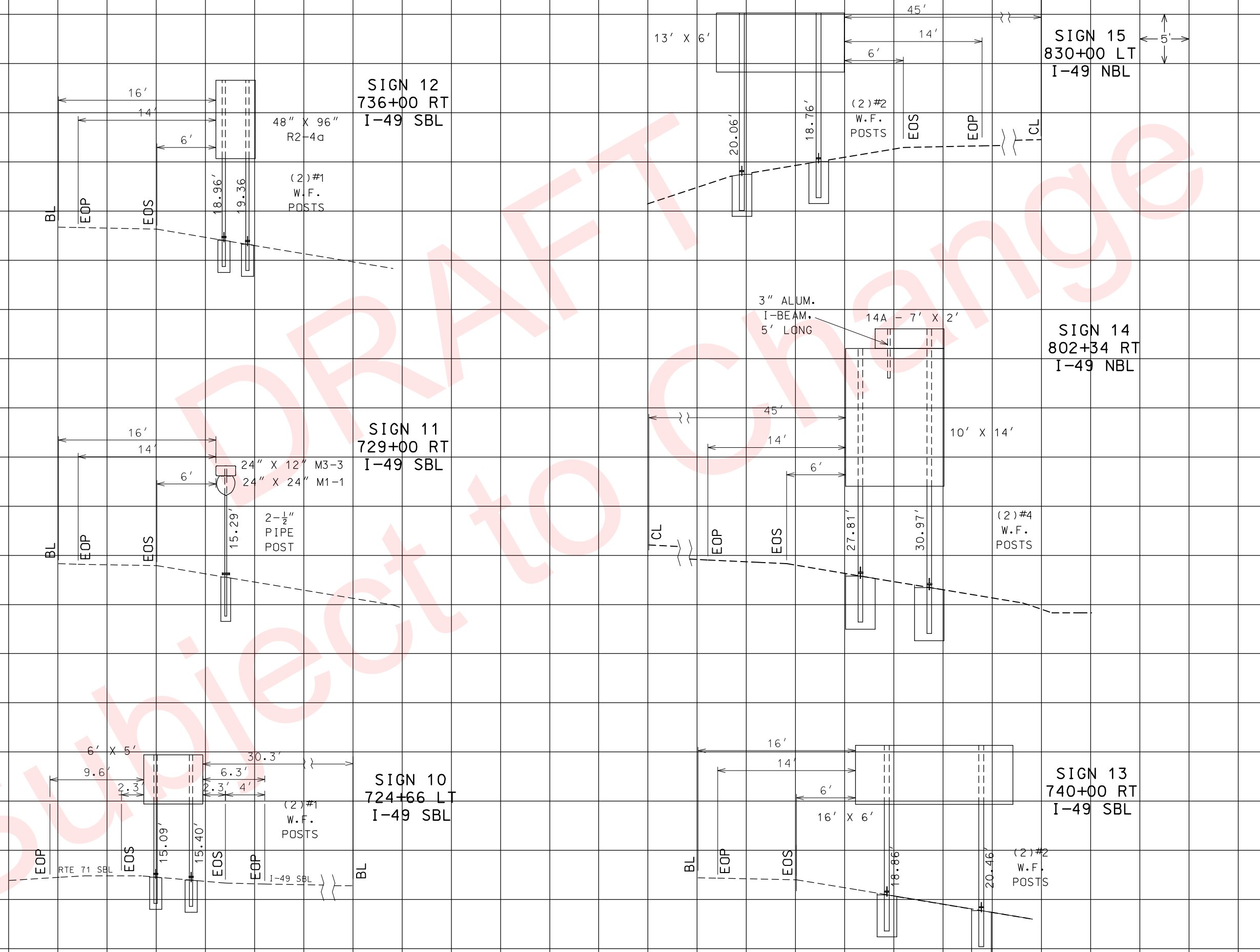
DESCRIPTION

DATE

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. 97
 COUNTY McDONALD
 JOB NO. JTP0601
 CONTRACT ID.
 PROJECT NO.
 BRIDGE NO.

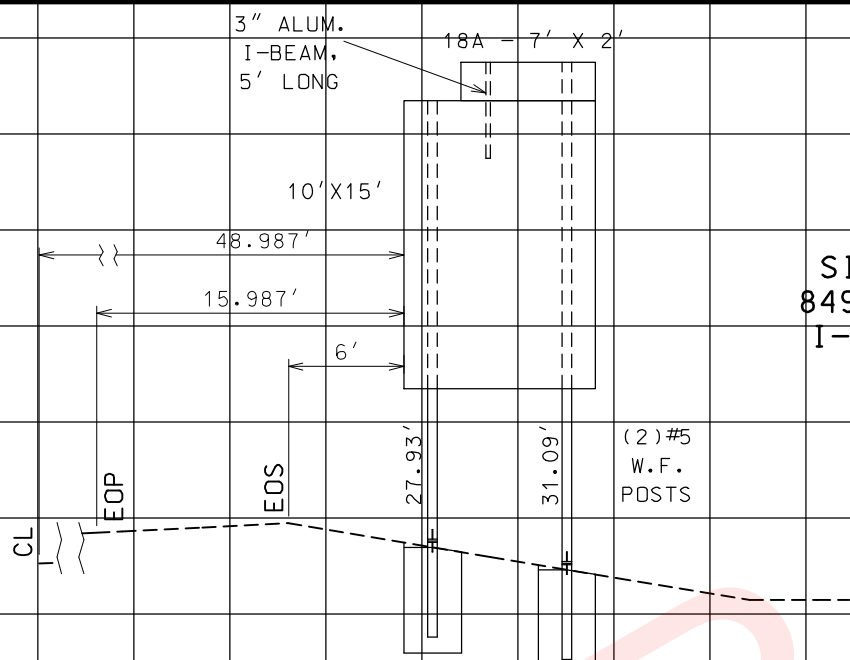
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

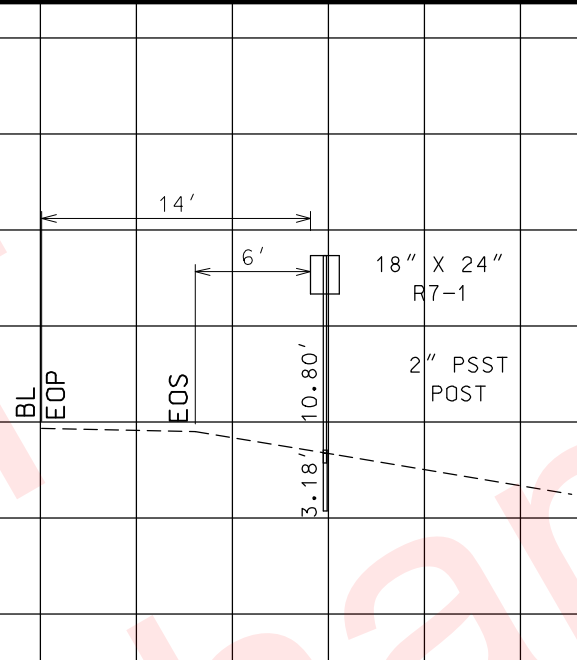
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

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

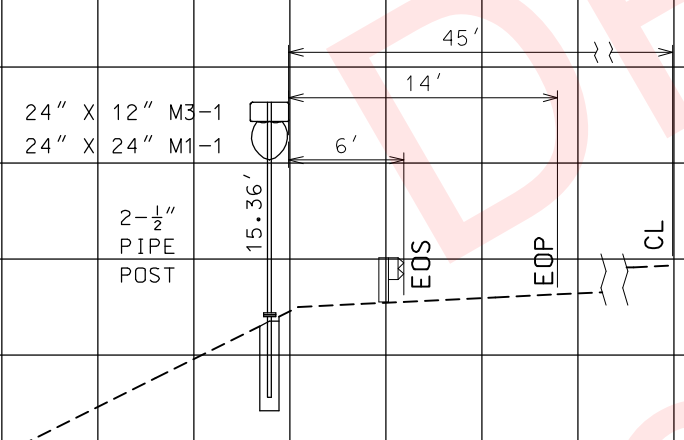
SIGN SECTIONS
SHEET 16 OF 27



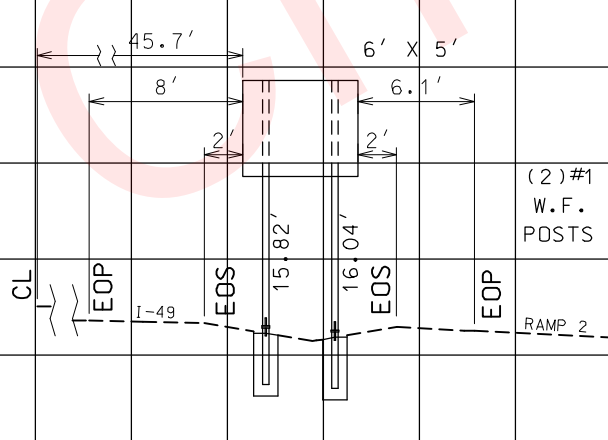
SIGN 18
849+60 RT
I-49 SBL



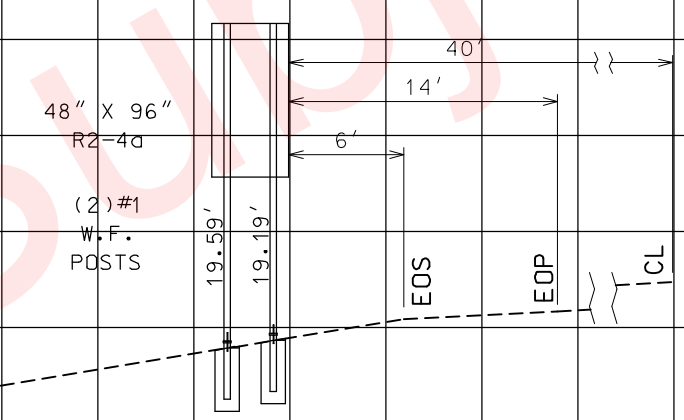
SIGN 21
2008+00 RT
RAMP 2



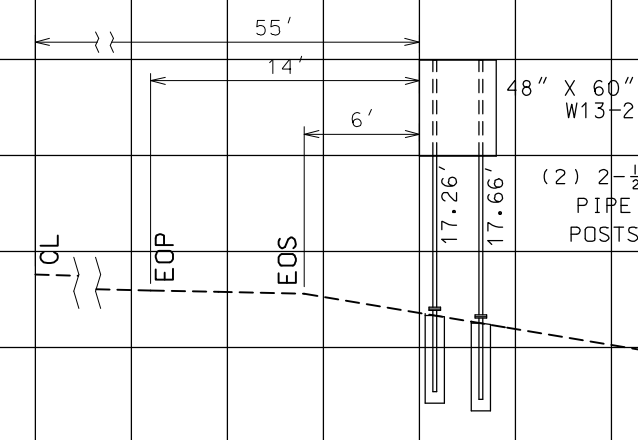
SIGN 17
844+60 LT
I-49 SBL



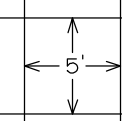
SIGN 20
859+36.68 RT
I-49 SBL



SIGN 16
836+60 LT
I-49 SBL



SIGN 19
855+14 RT
I-49 SBL



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DATE PREPARED		02/04/2010	
ROUTE	STATE	DISTRICT	SHEET NO.
49	MO	7	98
COUNTY			
McDONALD			
JOB NO.			
J7P0601			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

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."

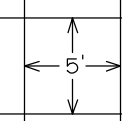
DATE PREPARED 02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 99

COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

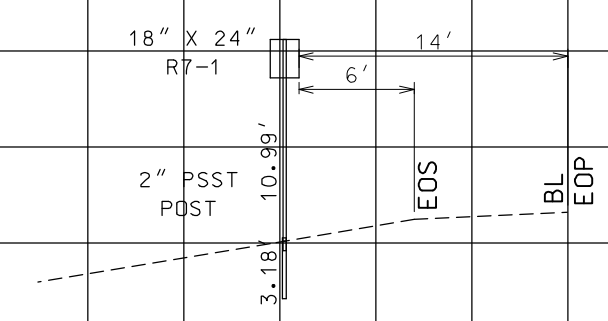
PROJECT NO.
BRIDGE NO.

DESCRIPTION

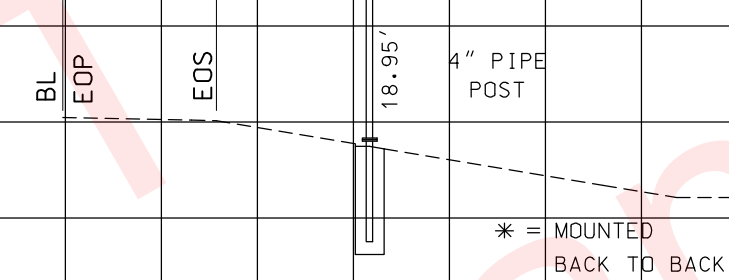
DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



SIGN 24
1012+00 LT
RAMP 1



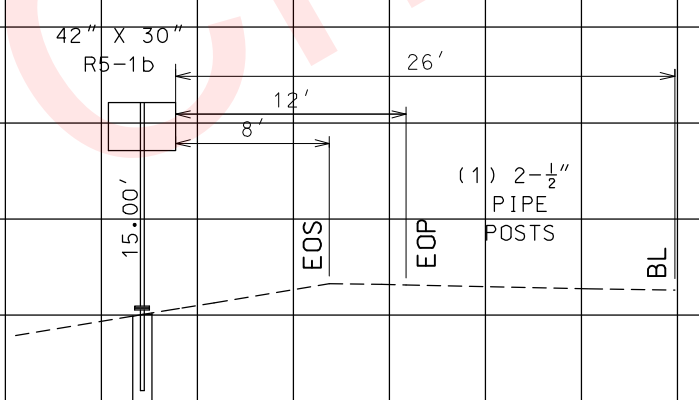
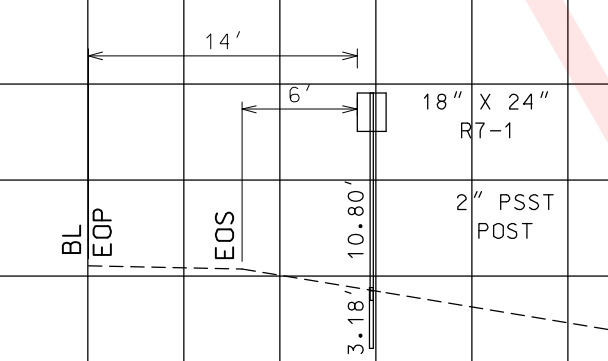
(6) 32" BACKING BARS
48" X 18" R6-1L
48" X 18" R6-1R }*
48" R1-1
30" X 30" R5-1 }*



SIGN 27
2017+54 RT
RAMP 2

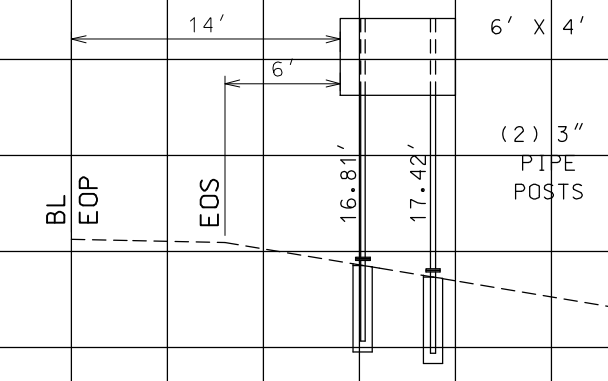
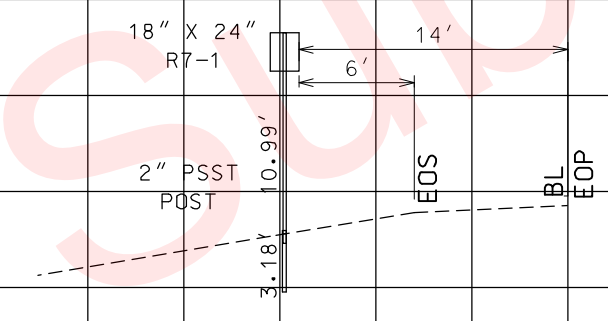
* = MOUNTED BACK TO BACK

SIGN 23
2013+00 RT
RAMP 2



SIGN 26
2015+67 LT
RAMP 2

SIGN 22
1007+00 LT
RAMP 1



SIGN 25
2015+40 RT
RAMP 2

SIGN SECTIONS
SHEET 18 OF 27

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

DATE PREPARED
02/04/2010

ROUTE 49 STATE MO

DISTRICT 7 SHEET NO. 100

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

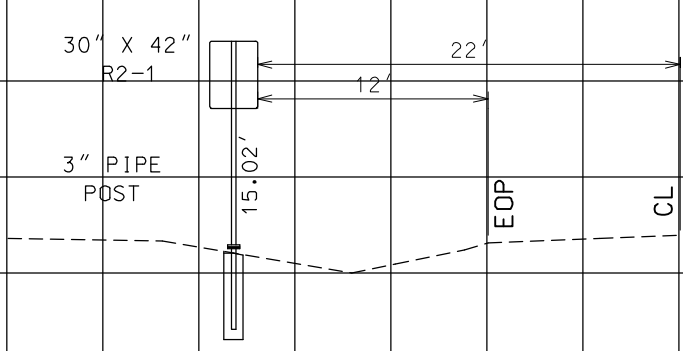
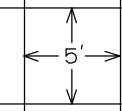
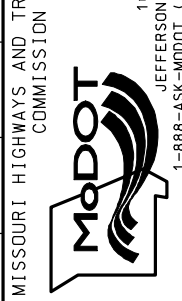
PROJECT NO.

BRIDGE NO.

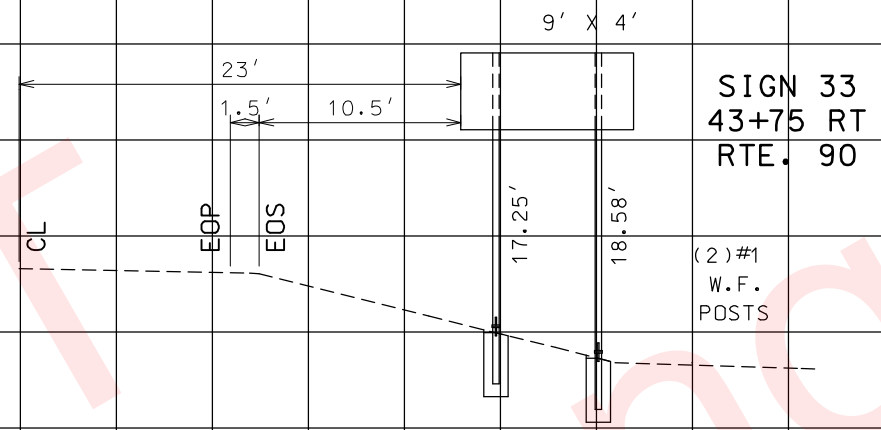
DESCRIPTION

DATE

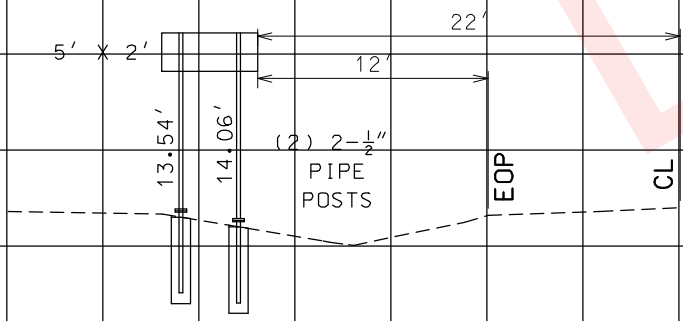
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



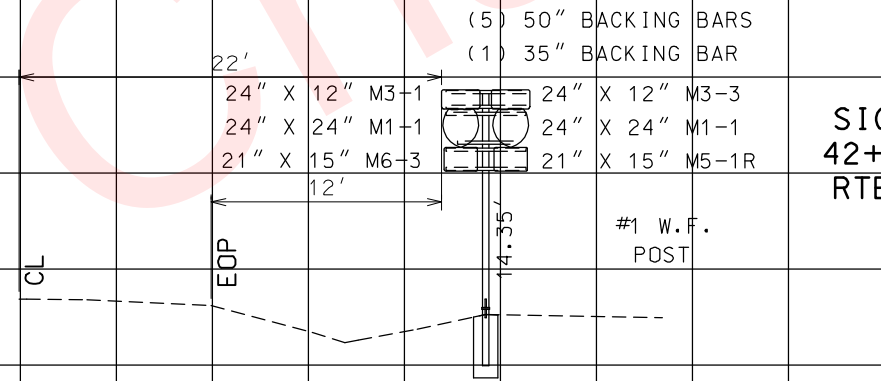
SIGN 30
40+00 LT
RTE. 90



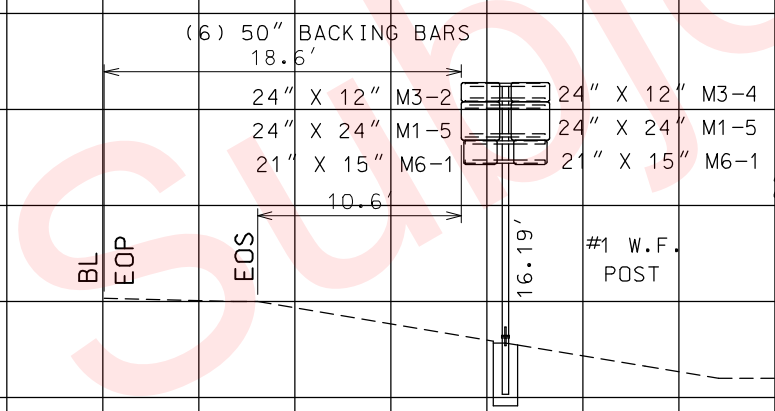
SIGN 33
43+75 RT
RTE. 90



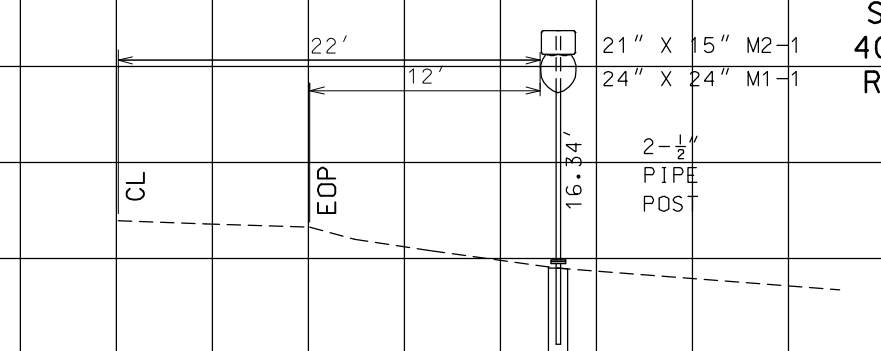
SIGN 29
37+00 LT
RTE. 90



SIGN 32
42+50 RT
RTE. 90



SIGN 28
2017+54 RT
RAMP 2



SIGN 31
40+00 RT
RTE. 90

"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.

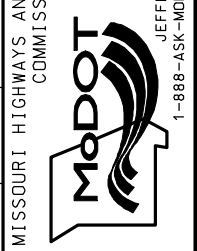
BRIDGE NO.

DESCRIPTION

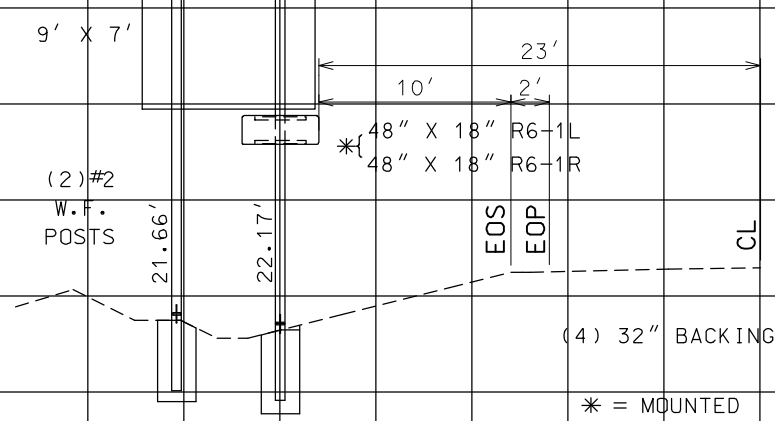
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



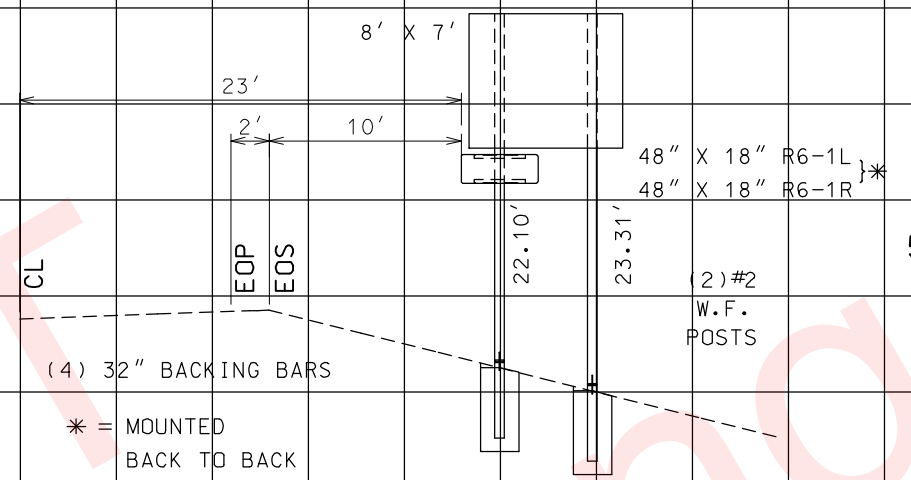
REV.



SIGN 36
47+40 LT
RTE. 90

(4) 32" BACKING BARS

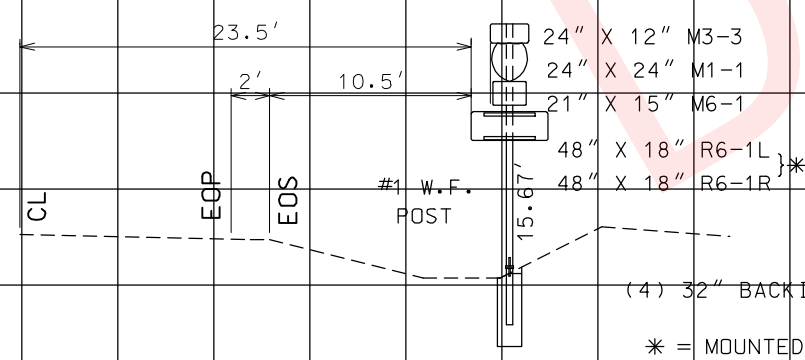
* = MOUNTED
BACK TO BACK



SIGN 39
52+60 RT
RTE. 90

(4) 32" BACKING BARS

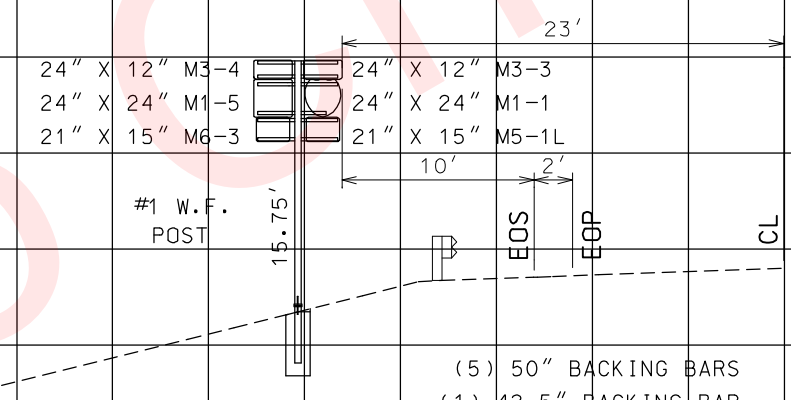
* = MOUNTED
BACK TO BACK



SIGN 35
45+50 RT
RTE. 90

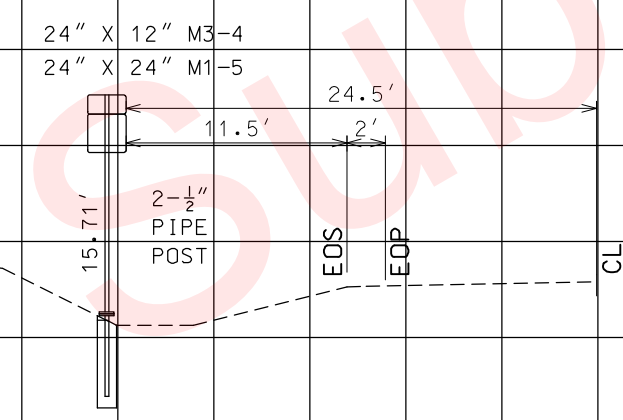
(4) 32" BACKING BARS

* = MOUNTED
BACK TO BACK

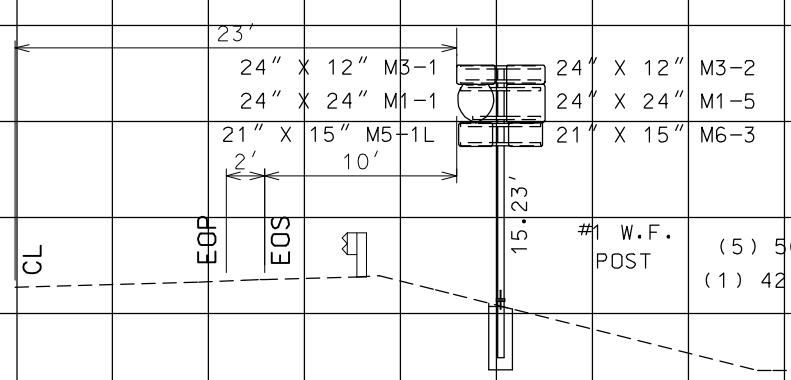


SIGN 38
52+20 LT
RTE. 90

(5) 50" BACKING BARS
(1) 42.5" BACKING BAR



SIGN 34
44+50 LT
RTE. 90



SIGN 37
47+80 RT
RTE. 90

(5) 50" BACKING BARS
(1) 42.5" BACKING BAR

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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

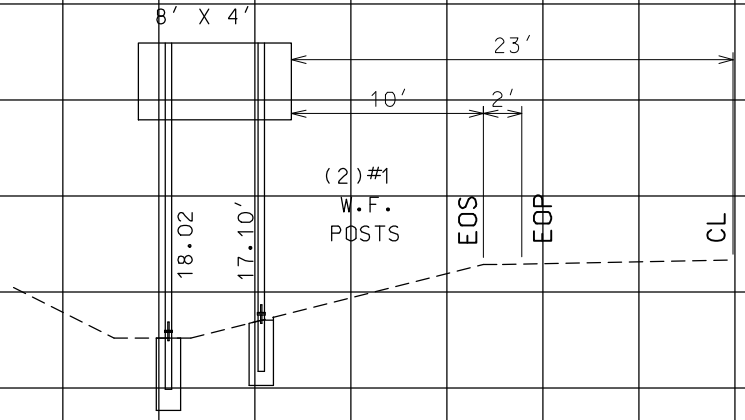
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

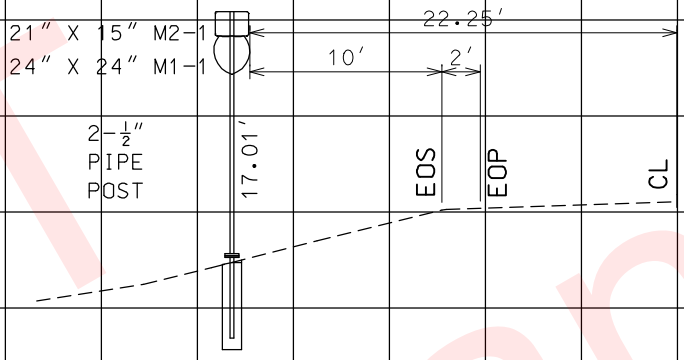


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

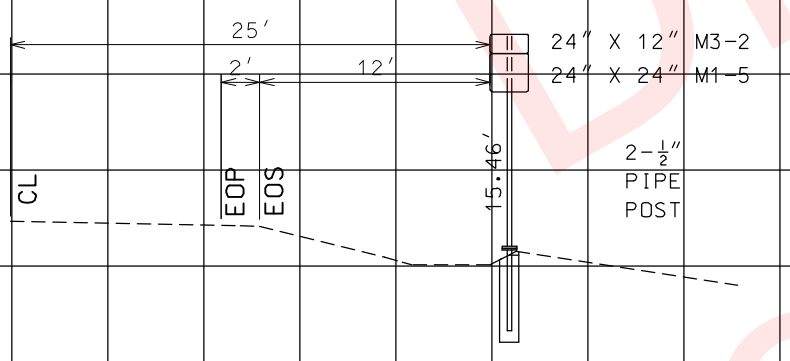
REV.



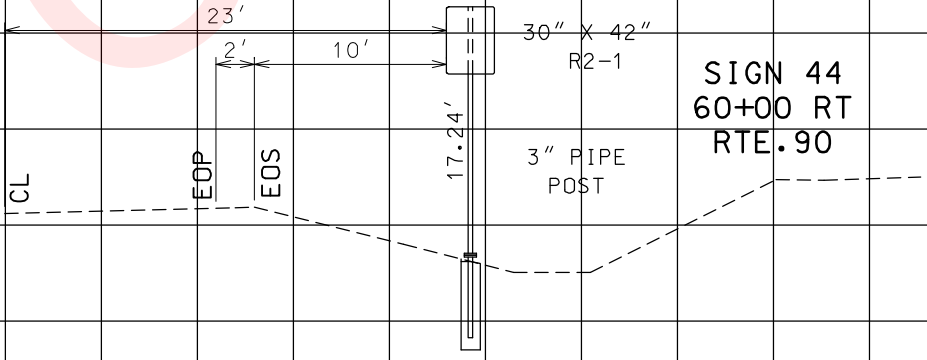
SIGN 42
56+75 LT
RTE.90



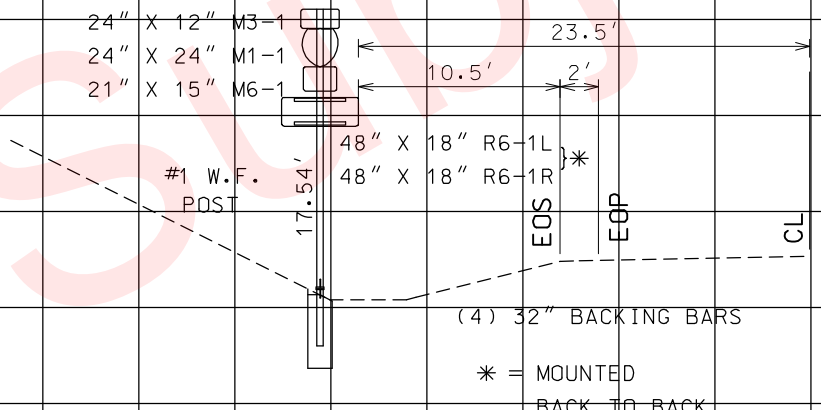
SIGN 45
60+75 LT
RTE.90



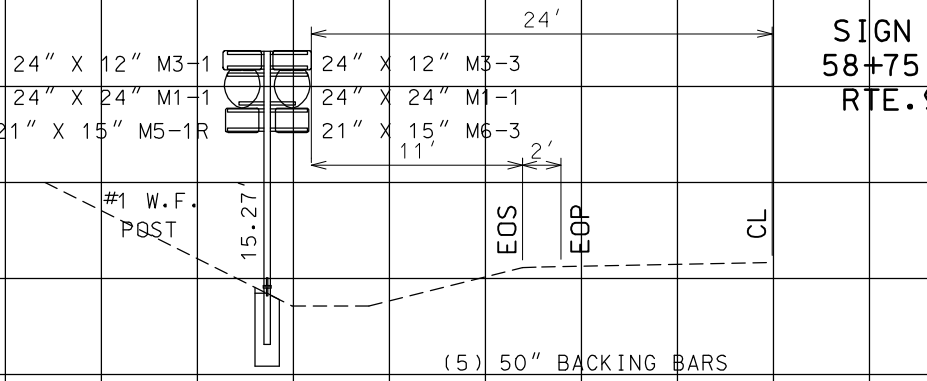
SIGN 41
55+50 RT
RTE.90



SIGN 44
60+00 RT
RTE.90



SIGN 40
54+75 LT
RTE.90



SIGN 43
58+75 LT
RTE.90

* = MOUNTED
BACK TO BACK

(5) 50" BACKING BARS
(1) 35" BACKING BAR

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. 103

COUNTY
McDONALD
JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.

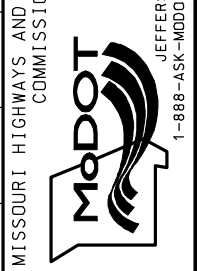
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

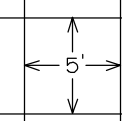
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



MO DOT

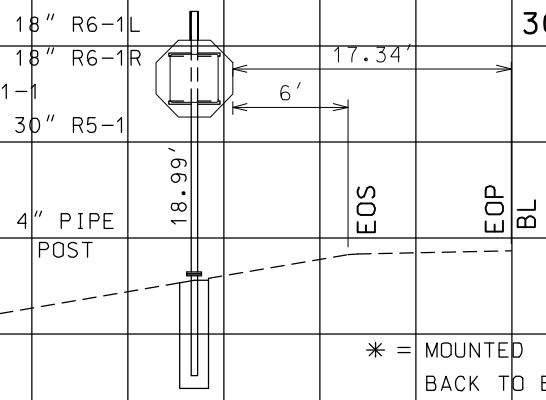
1-888-ASK-MODOT (1-888-275-6636)

REVISIONS



(6) 32" BACKING BARS
*1 48" X 18" R6-1L
*1 48" X 18" R6-1R
*1 48" R1-1
*1 30" X 30" R5-1

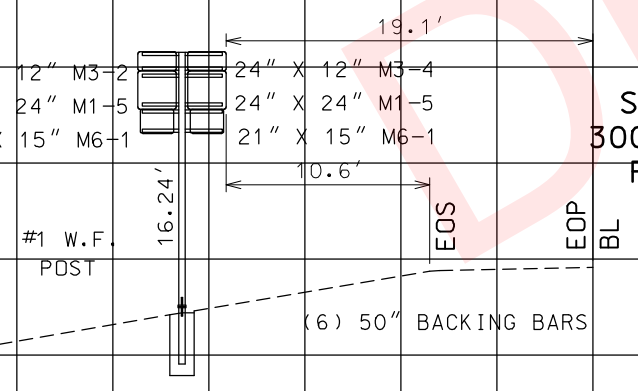
SIGN 48
3000+75 LT
RAMP 3



* = MOUNTED
BACK TO BACK

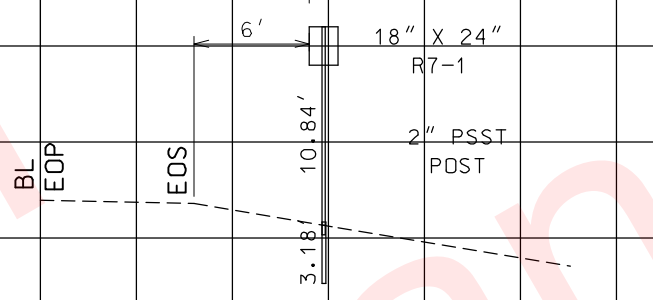
24" X 12" M3-2
24" X 24" M1-5
21" X 15" M6-1
24" X 12" M3-4
24" X 24" M1-5
21" X 15" M6-1

SIGN 47
3000+75 LT
RAMP 3



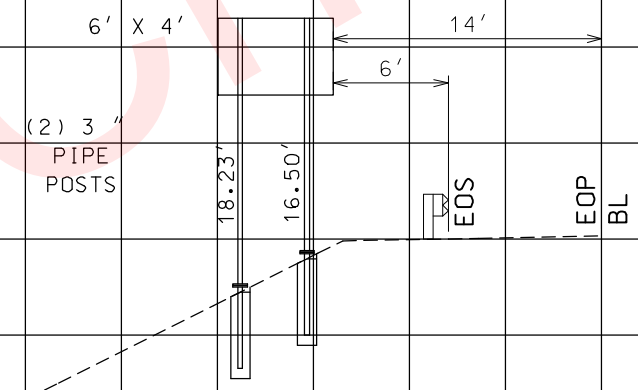
14'
6'
18" X 24" R7-1
2" PSST POST
3.18'
10.84'

SIGN 51
4004+00 RT
RAMP 4



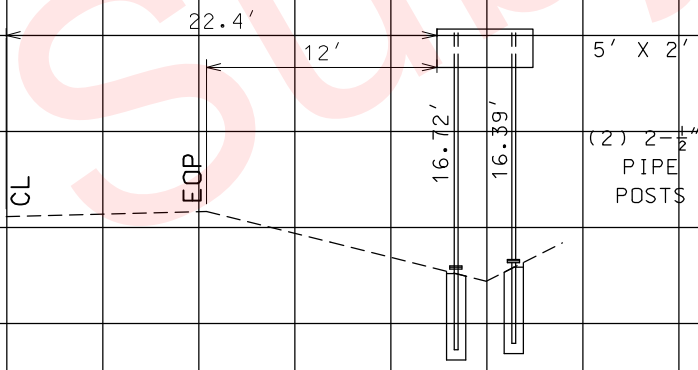
6' X 4'
14'
6'
(2) 3" PIPE POSTS
18.23'
16.50'

SIGN 50
3002+95 LT
RAMP 3



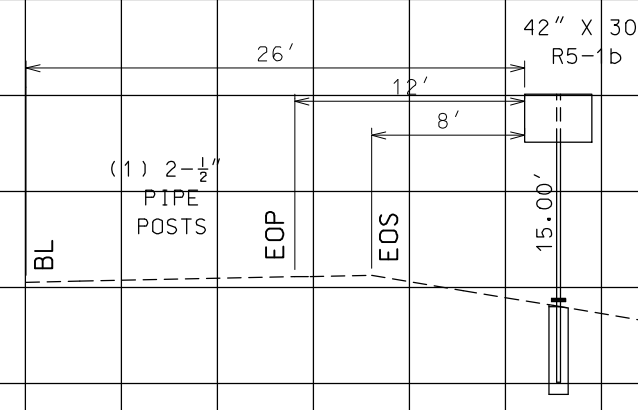
22.4'
12'
5' X 2'
16.12'
16.39'
(2) 2-1/2" PIPE POSTS

SIGN 46
63+00 RT
RTE. 90



26'
12'
8'
42" X 30" R5-b
15.00'

SIGN 49
3002+70 RT
RAMP 3



SIGN SECTIONS
SHEET 22 OF 27

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

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

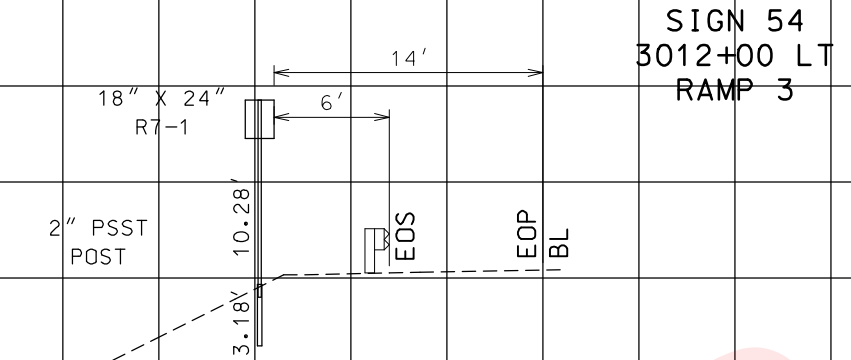
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

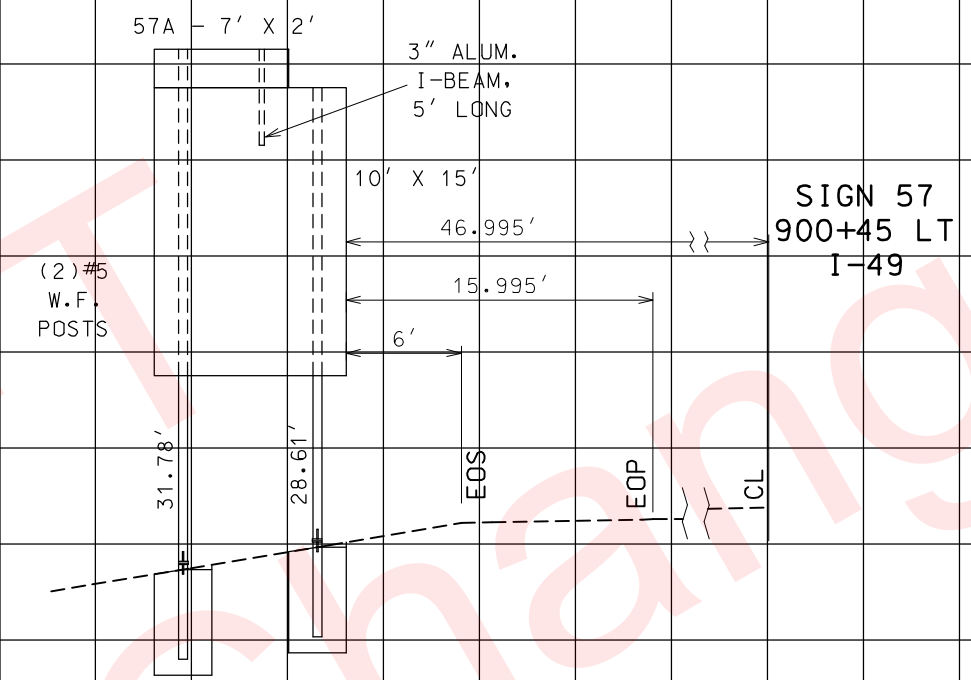
MoDOT

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

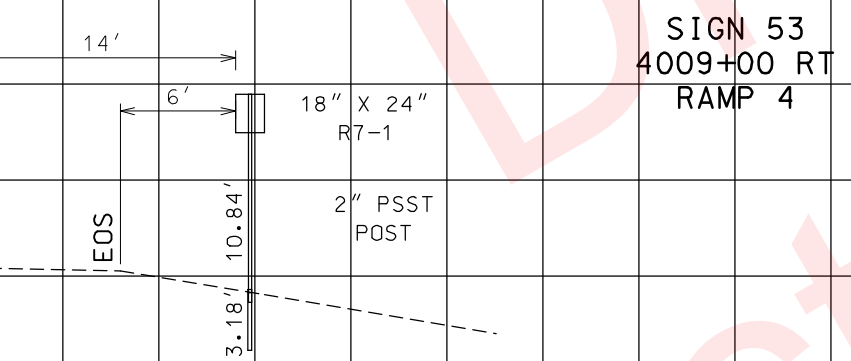
REV.



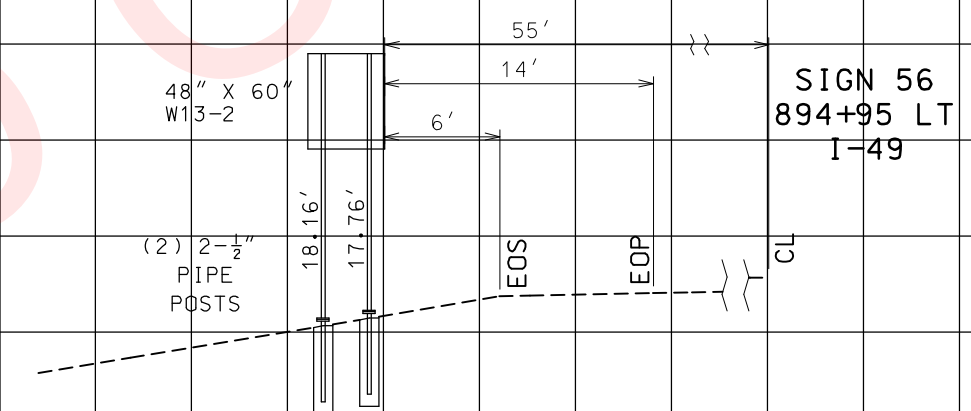
SIGN 54
3012+00 LT
RAMP 3



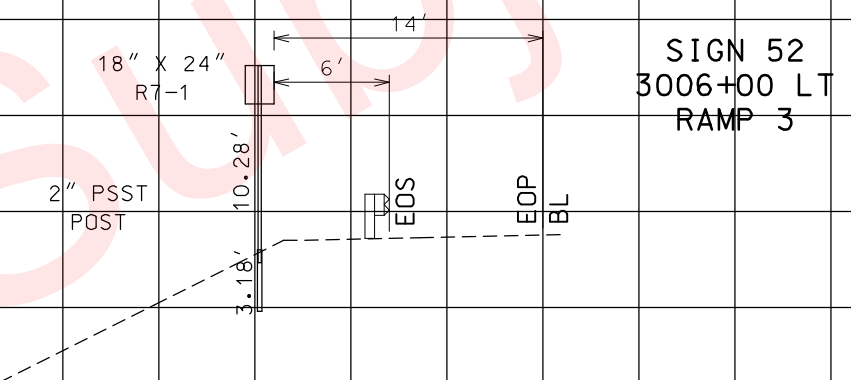
SIGN 57
900+45 LT
I-49



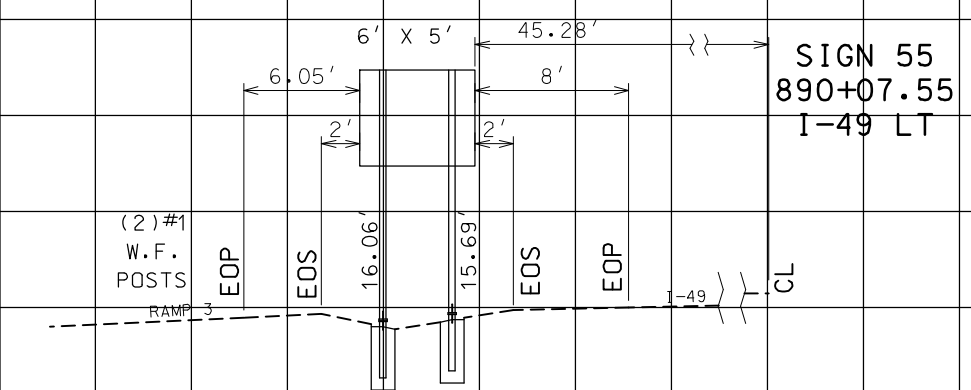
SIGN 53
4009+00 RT
RAMP 4



SIGN 56
894+95 LT
I-49



SIGN 52
3006+00 LT
RAMP 3



SIGN 55
890+07.55
I-49 LT

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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.

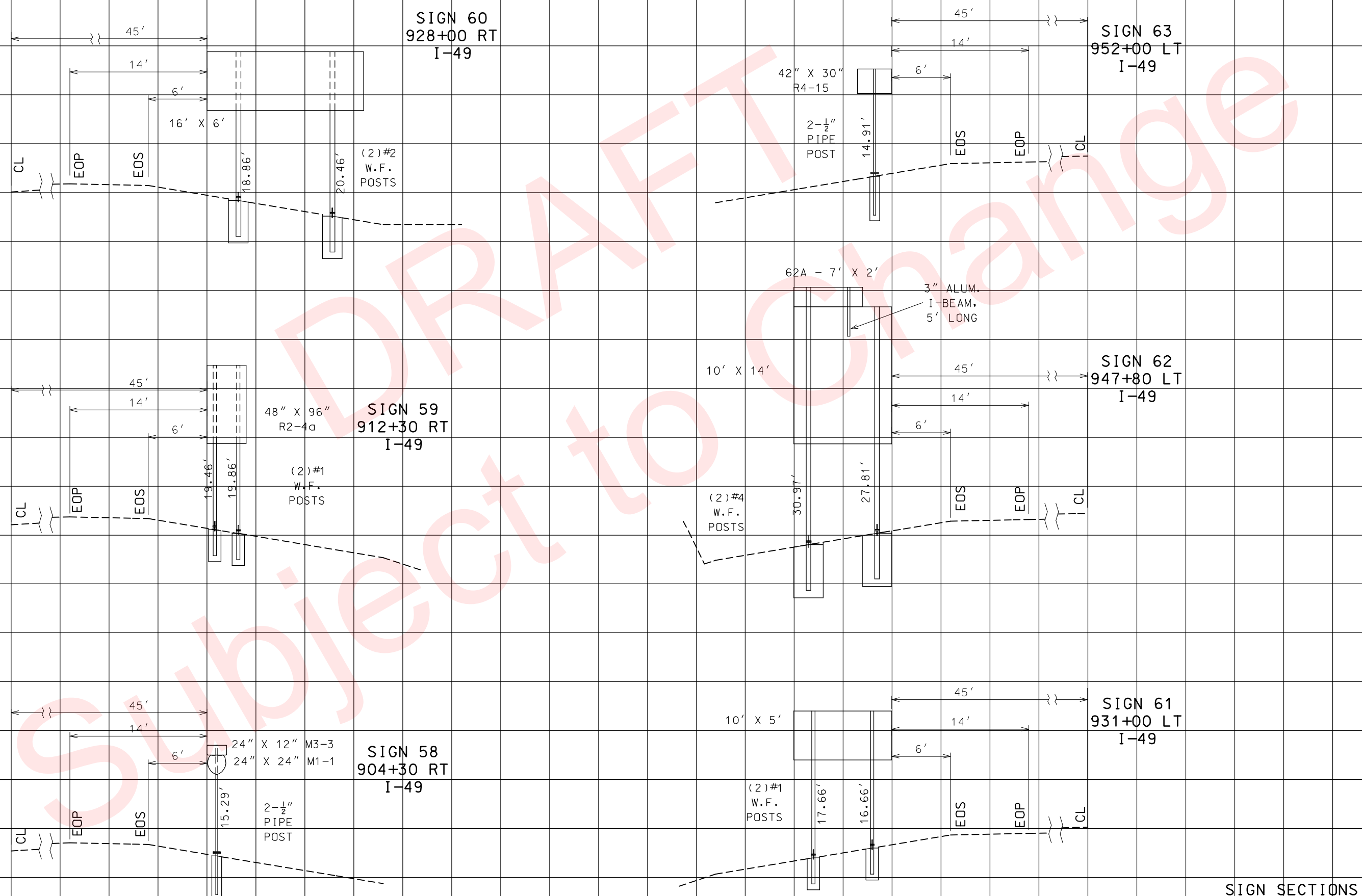
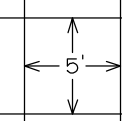
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.



SIGN 60
928+00 RT
I-49

SIGN 63
952+00 LT
I-49

SIGN 59
912+30 RT
I-49

SIGN 62
947+80 LT
I-49

SIGN 58
904+30 RT
I-49

SIGN 61
931+00 LT
I-49

SIGN SECTIONS
SHEET 24 OF 27

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

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.

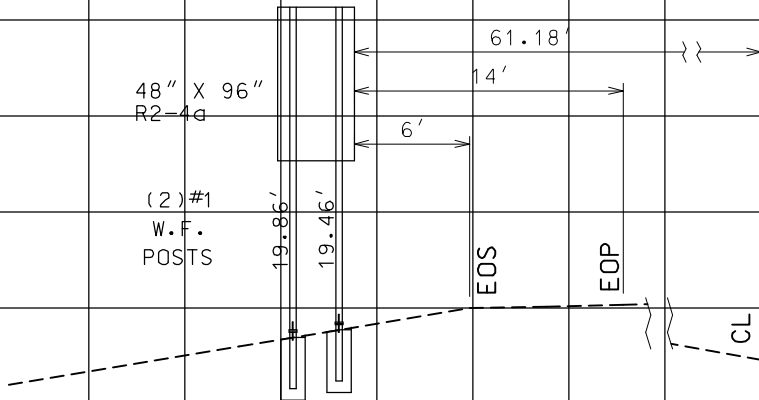
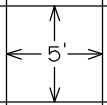
DESCRIPTION

DATE

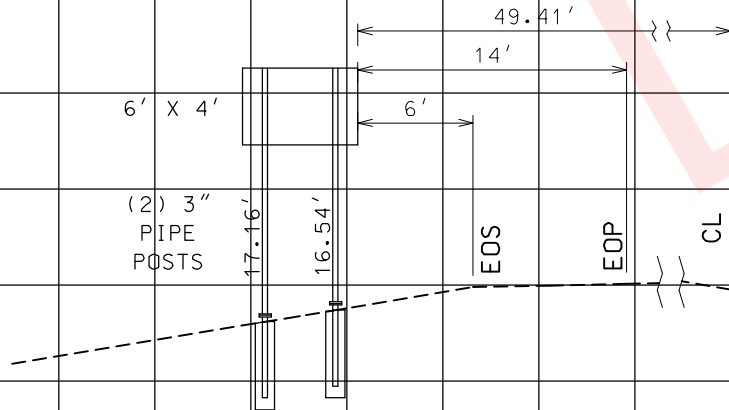
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



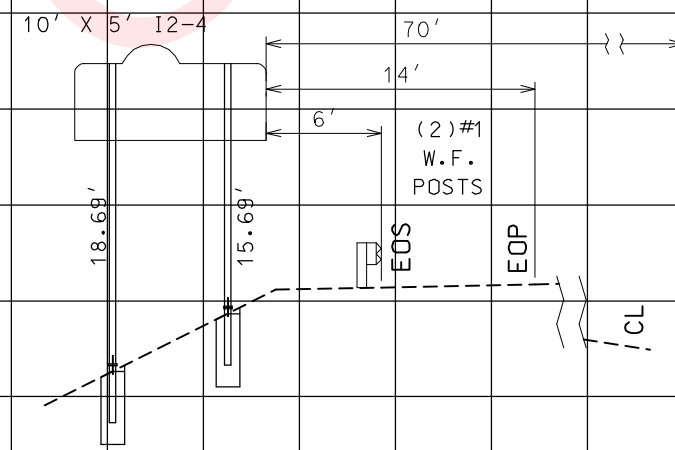
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



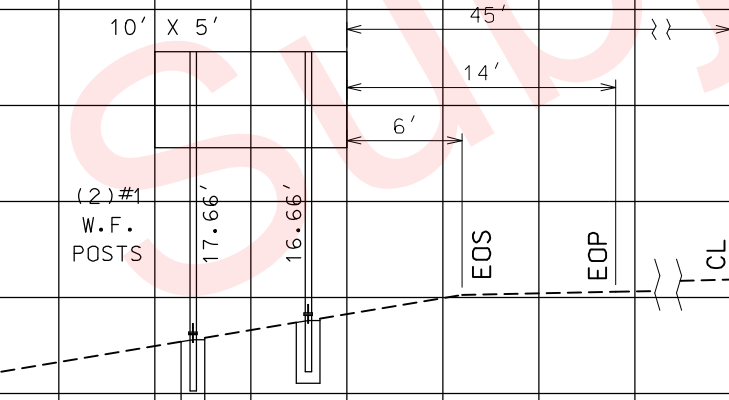
SIGN 66
980+00 LT
I-49



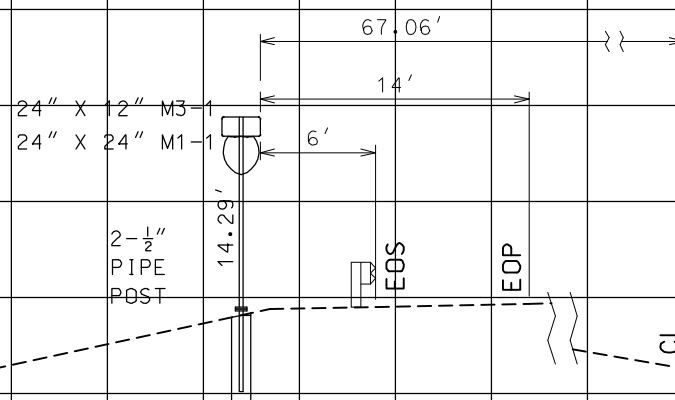
SIGN 65
972+00 LT
I-49



SIGN 68
987+00 LT
I-49



SIGN 64
964+00 LT
I-49



SIGN 67
984+00 LT
I-49

"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.

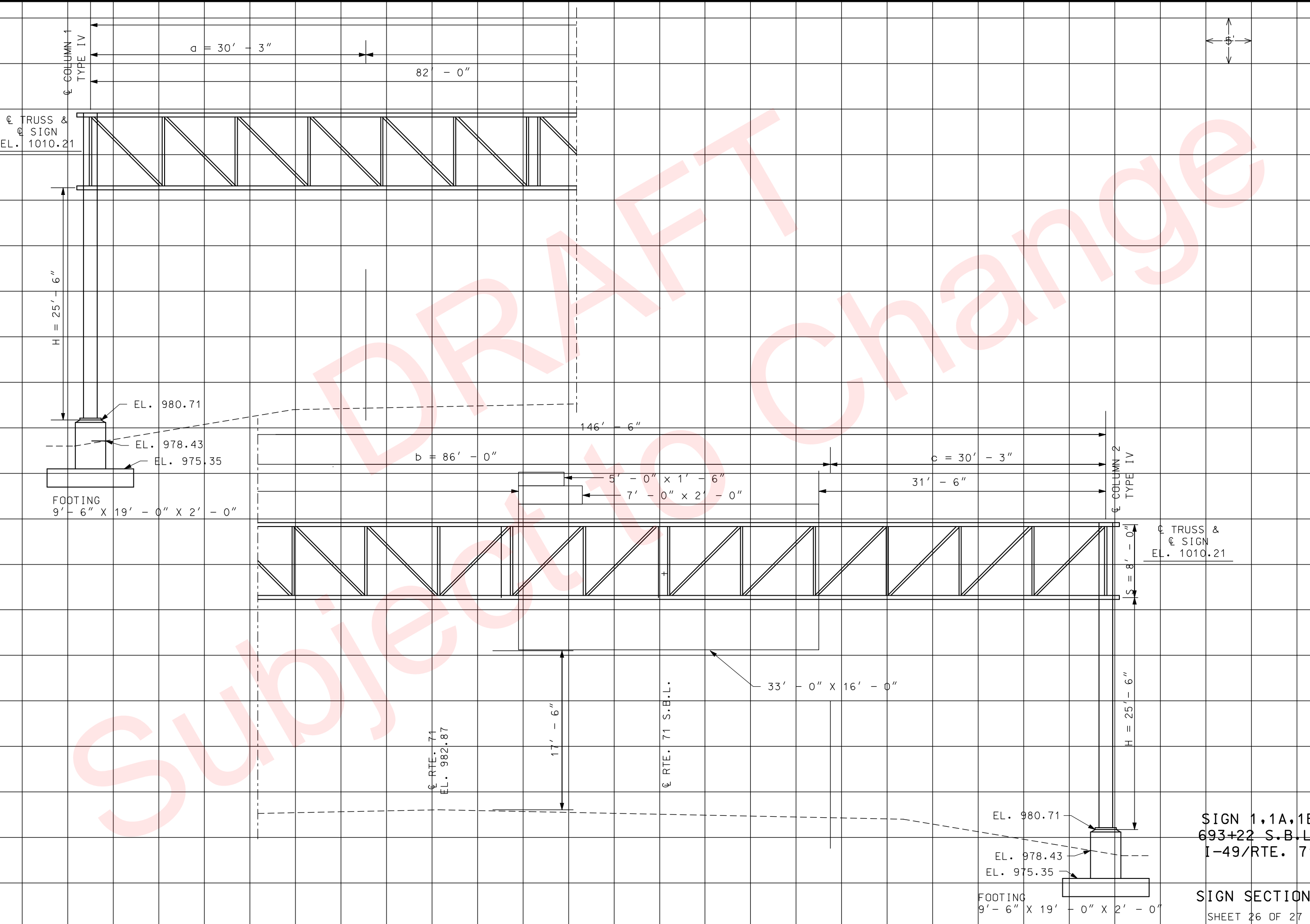
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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. 108

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

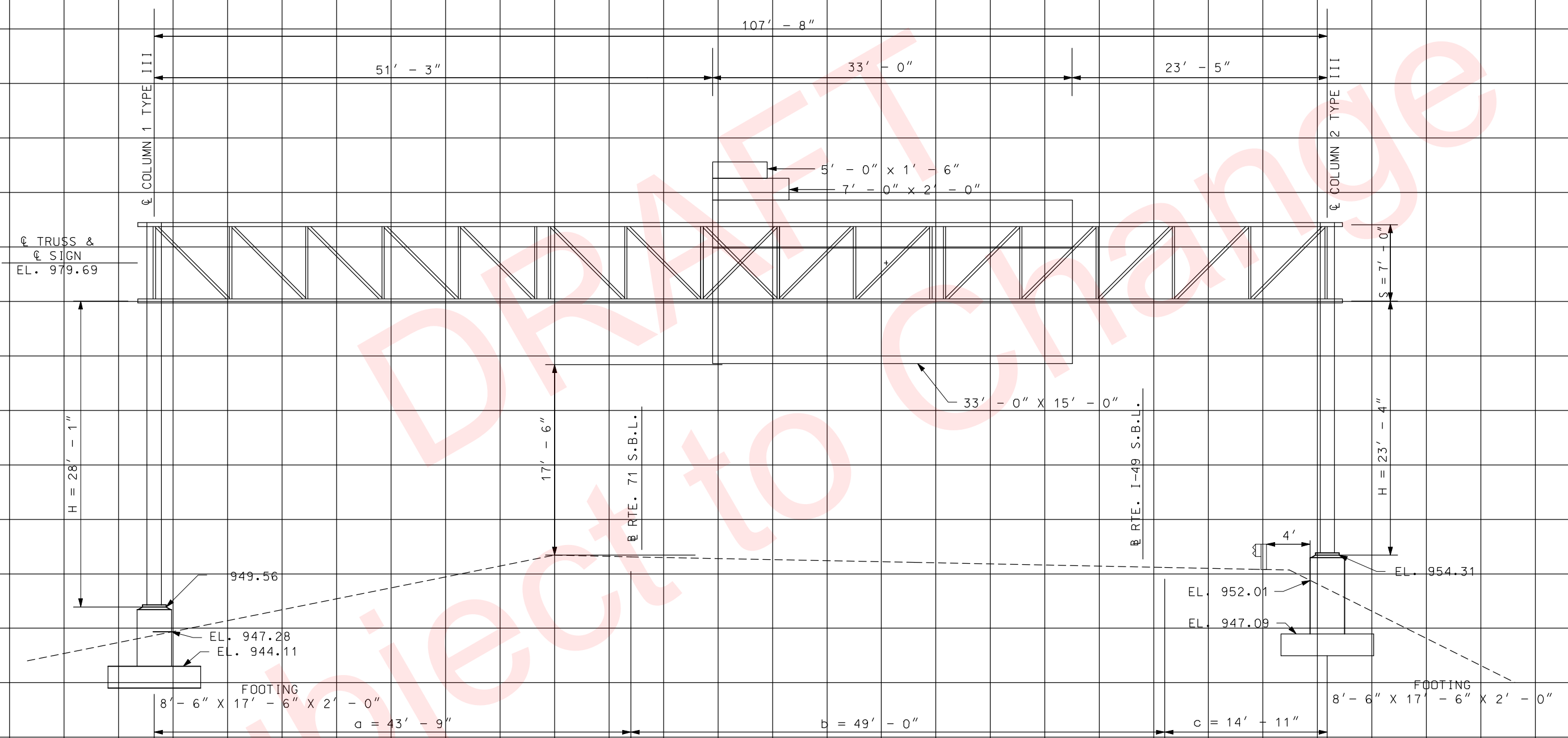
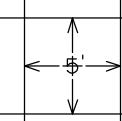
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



REV.



NOTE: GUARDRAIL PLACED A MINIMUM OF 4' FROM THE PEDESTAL

SIGN 5.5A,5B
719+62 S.B.L.
I-49/RTE.71

SIGN SECTIONS
SHEET 27 OF 27

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."
 DATE PREPARED 02/04/2010

ROUTE 49 STATE MO
 DISTRICT 7 SHEET NO. 109

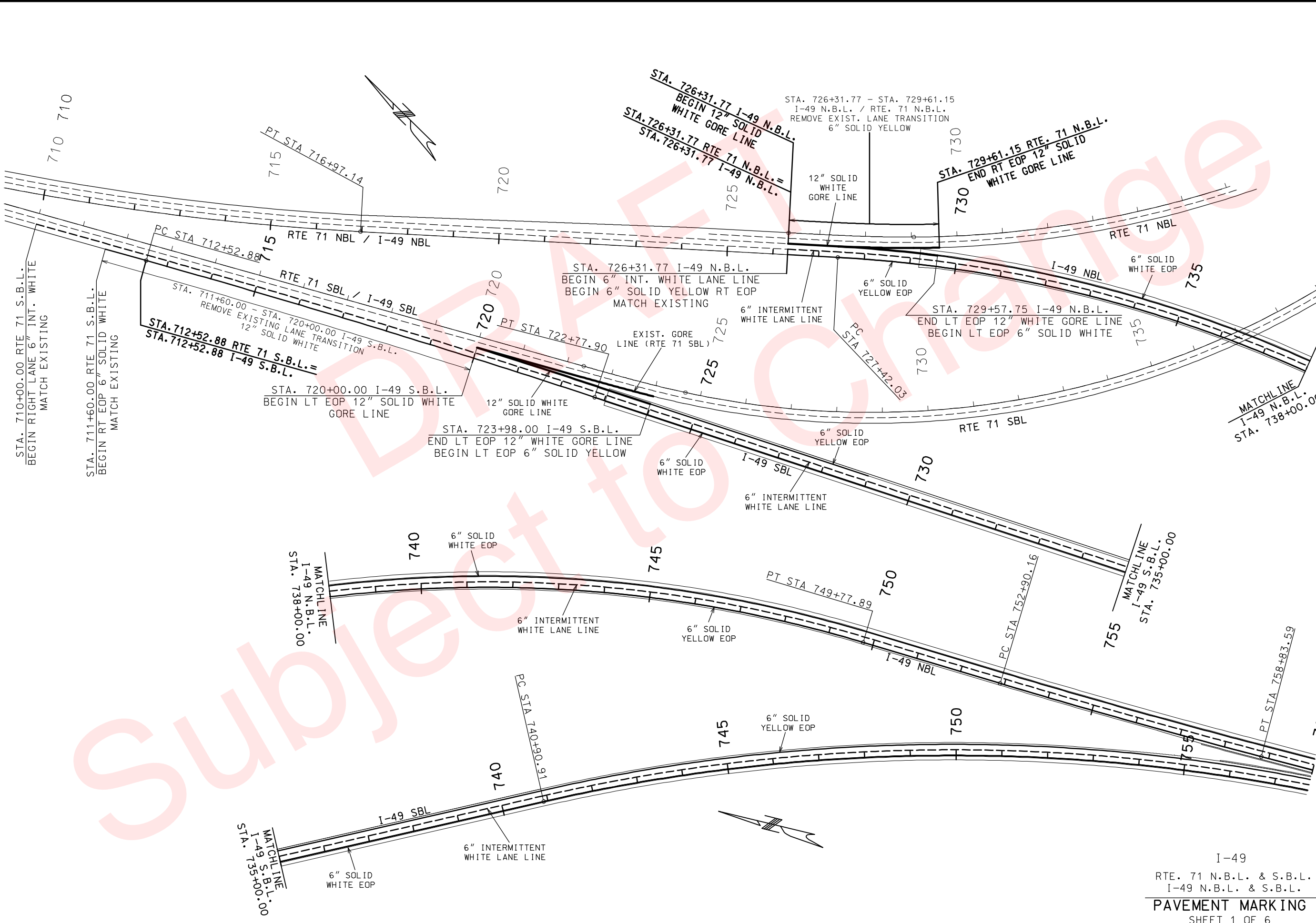
COUNTY McDONALD
 JOB NO. JTP0601
 CONTRACT ID.

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. 109_PM_01_JTP0601_I100_I49.dgn 10:22:57 AM 02/04/2010



I-49
 RTE. 71 N.B.L. & S.B.L.
 I-49 N.B.L. & S.B.L.
PAVEMENT MARKING
 SHEET 1 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.

DESCRIPTION

DATE

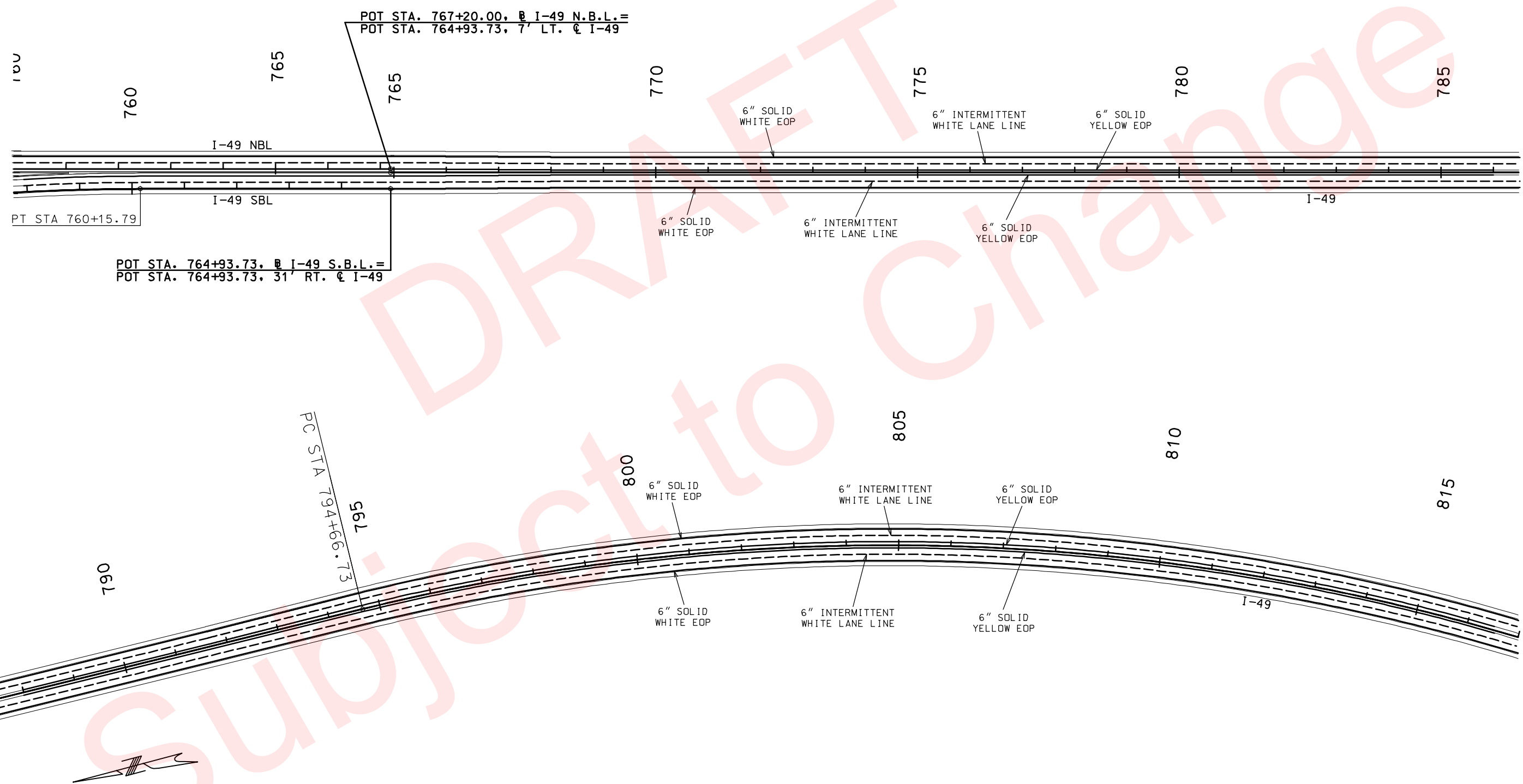
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

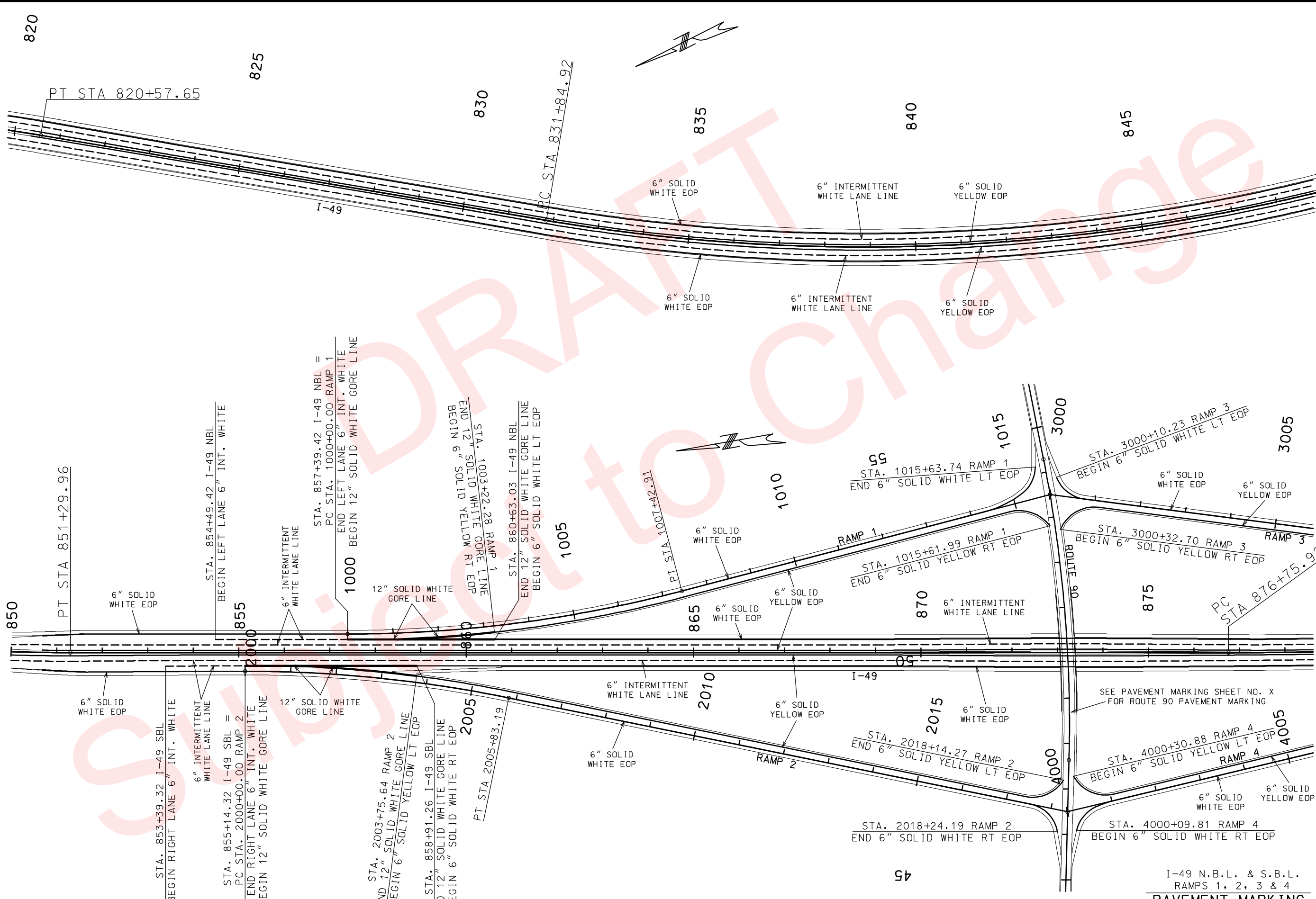


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



I-49 N.B.L. & S.B.L.
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. 111
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

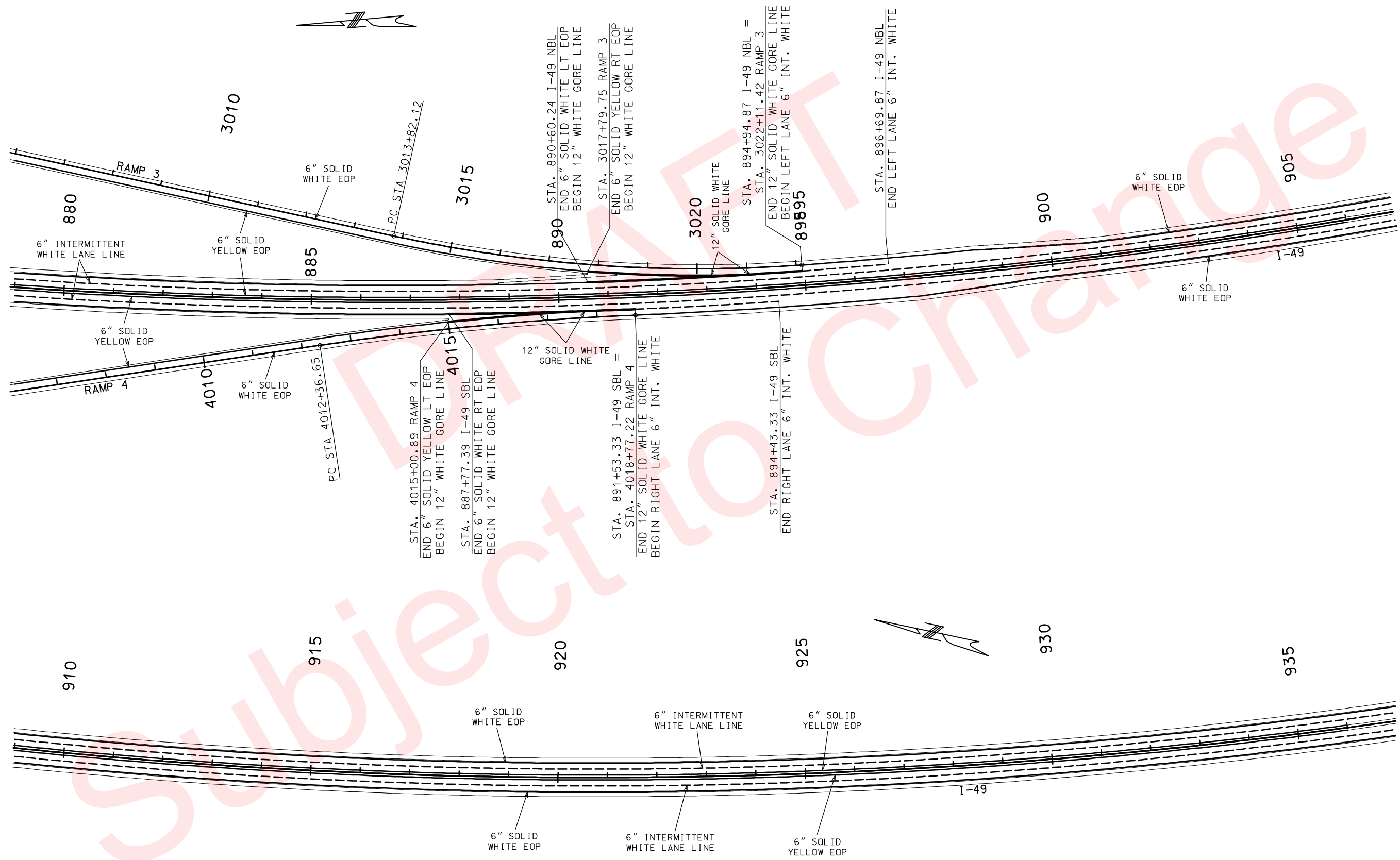
DATE	DESCRIPTION

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



I-49 N.B.L. & S.B.L.
RAMP 1, 2, 3 & 4
PAVEMENT MARKING
SHEET 3 OF 6

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. 112

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

I-49 N.B.L. & S.B.L.
RAMPS 3 & 4
PAVEMENT MARKING
SHEET 4 OF 6

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. 113

COUNTY
McDONALD

JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.

BRIDGE NO.

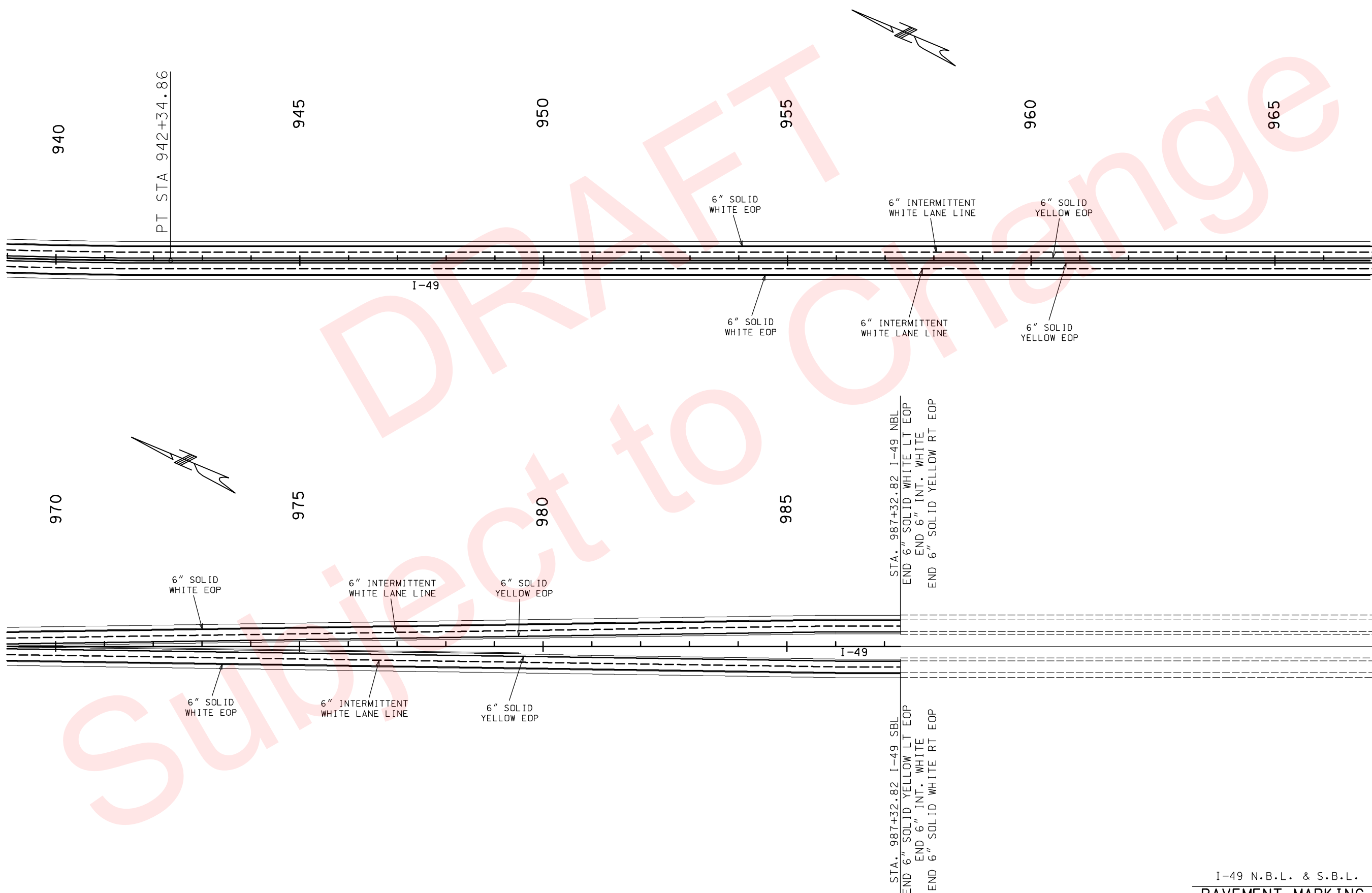
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

REV.



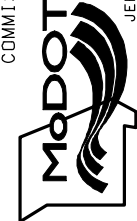
I-49 N.B.L. & S.B.L.
PAVEMENT MARKING
SHEET 5 OF 6

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

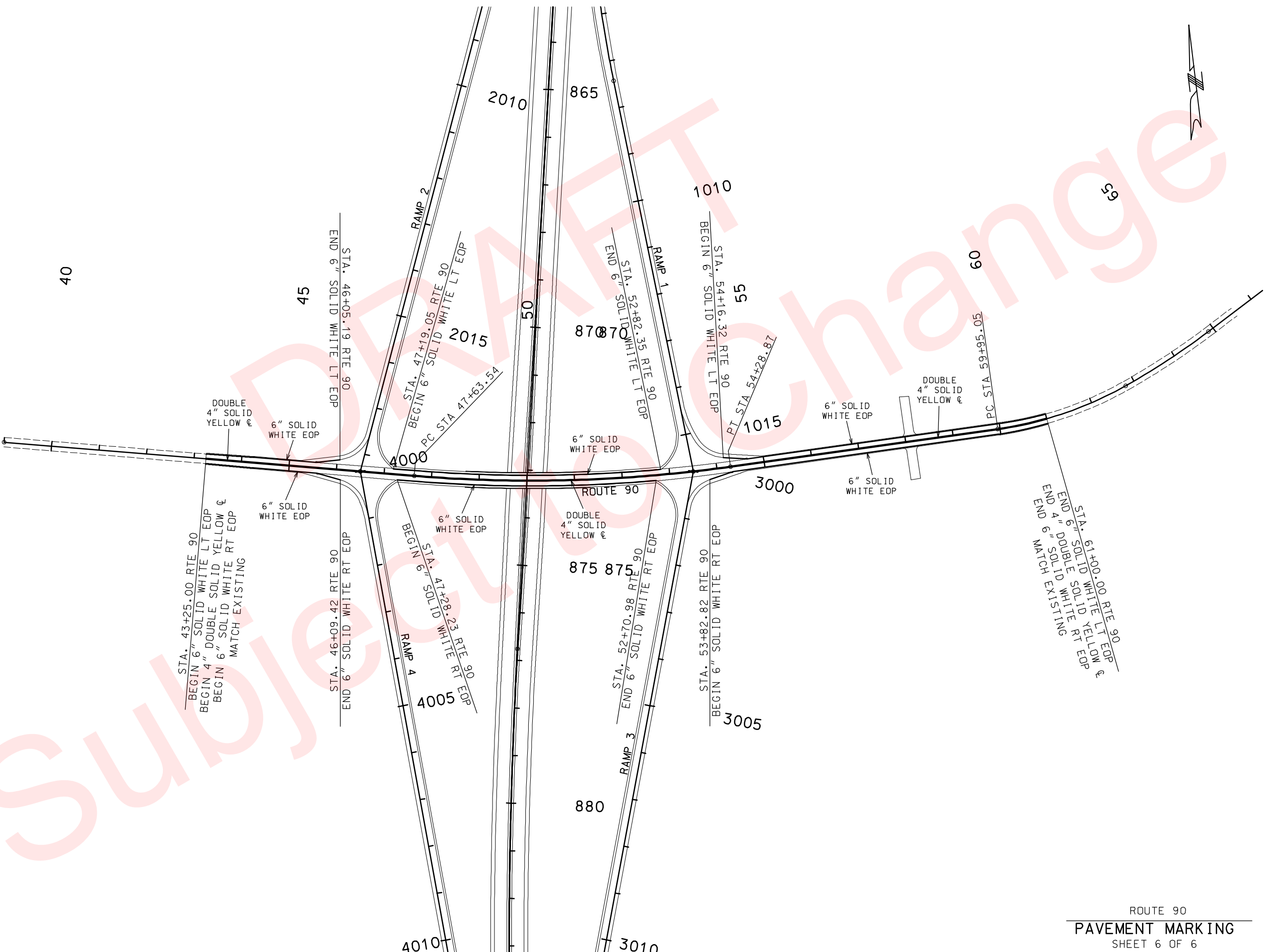
DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 114
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

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.



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. 115

COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

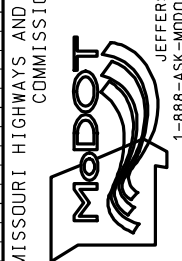
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

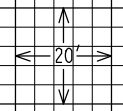
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



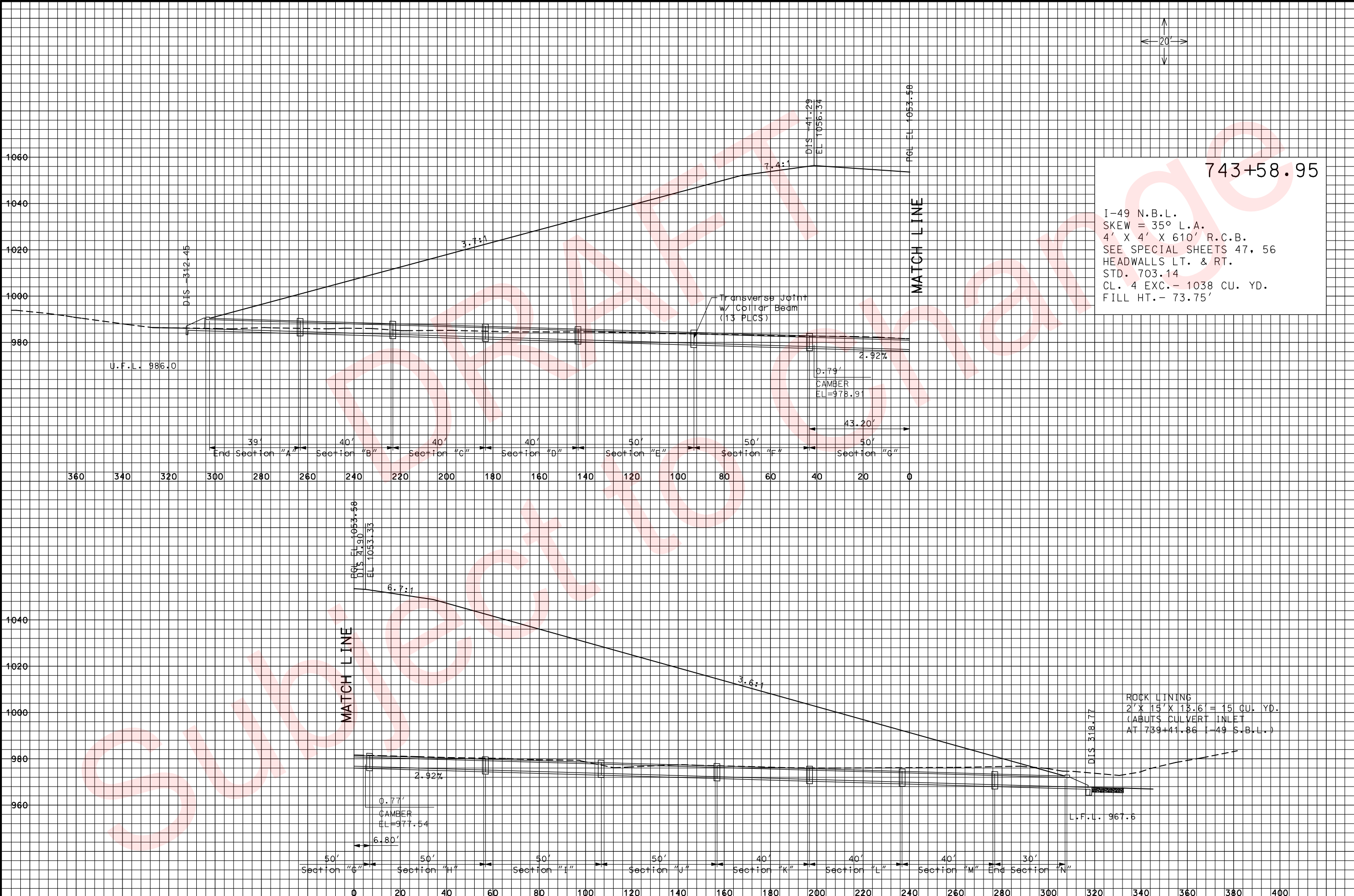
ROCK LINING
2' X 15' X 13.61' = 15 CUL. YD.
(ABUTS CULVERT INLET
AT 739+41.86 I-49 S.B.L.)

DIS 318.77
L.F.L. 967.6

CULVERT SECTIONS
SHEET 1 OF 44



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'



"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.

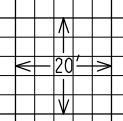
DESCRIPTION

DATE

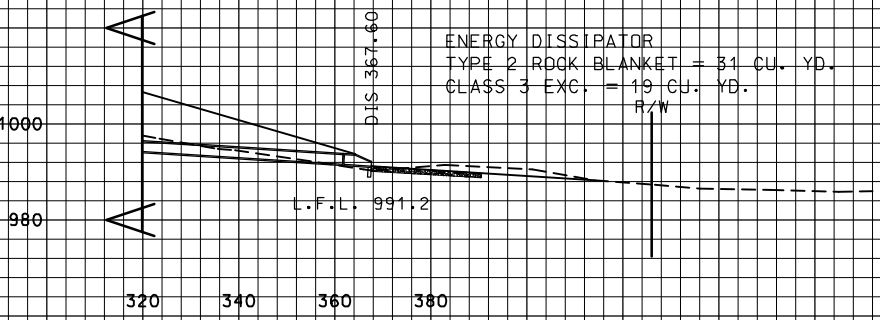
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

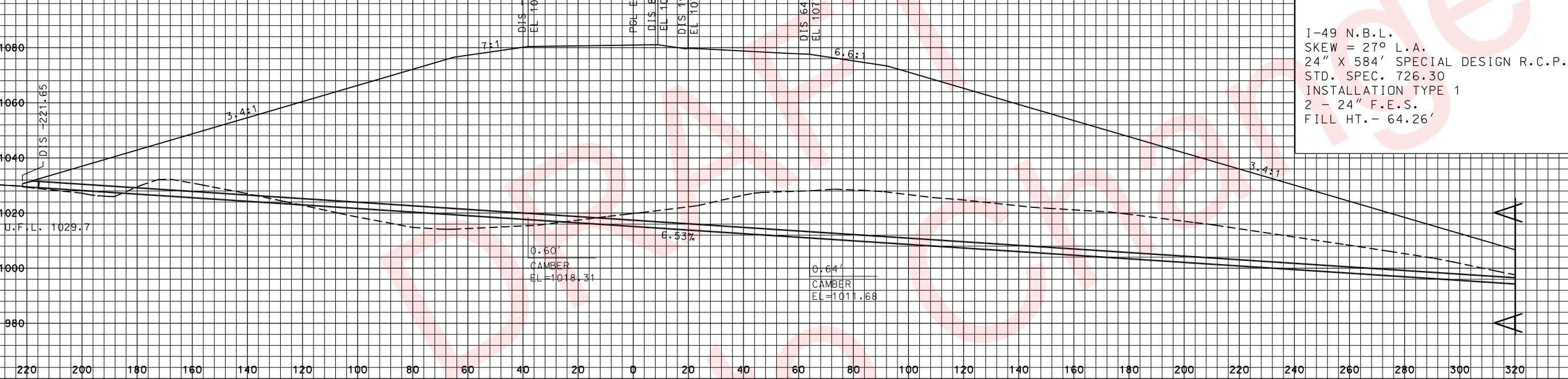
REV.



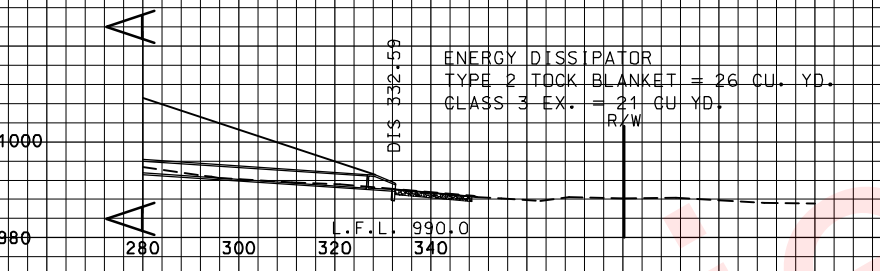
ENERGY DISSIPATOR
TYPE 2 ROCK BLANKET = 31 CU. YD.
CLASS 3 EXC. = 19 CU. YD.



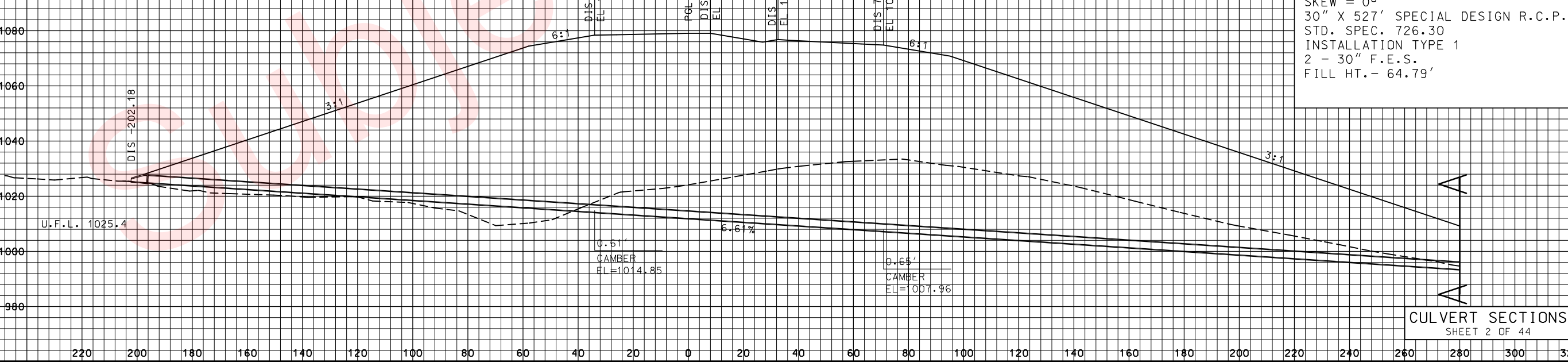
760+00.63
I-49 N.B.L.
SKEW = 27° L.A.
24" X 584' SPECIAL DESIGN R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
2 - 24" F.E.S.
FILL HT. - 64.26'



ENERGY DISSIPATOR
TYPE 2 ROCK BLANKET = 26 CU. YD.
CLASS 3 EX. = 21 CU. YD.



758+17.83
I-49 N.B.L.
SKEW = 0°
30" X 527' SPECIAL DESIGN R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
2 - 30" F.E.S.
FILL HT. - 64.79'



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. 117

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

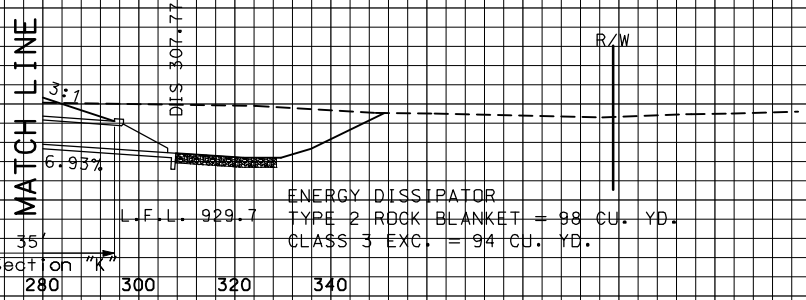
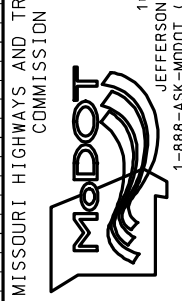
PROJECT NO.

BRIDGE NO.

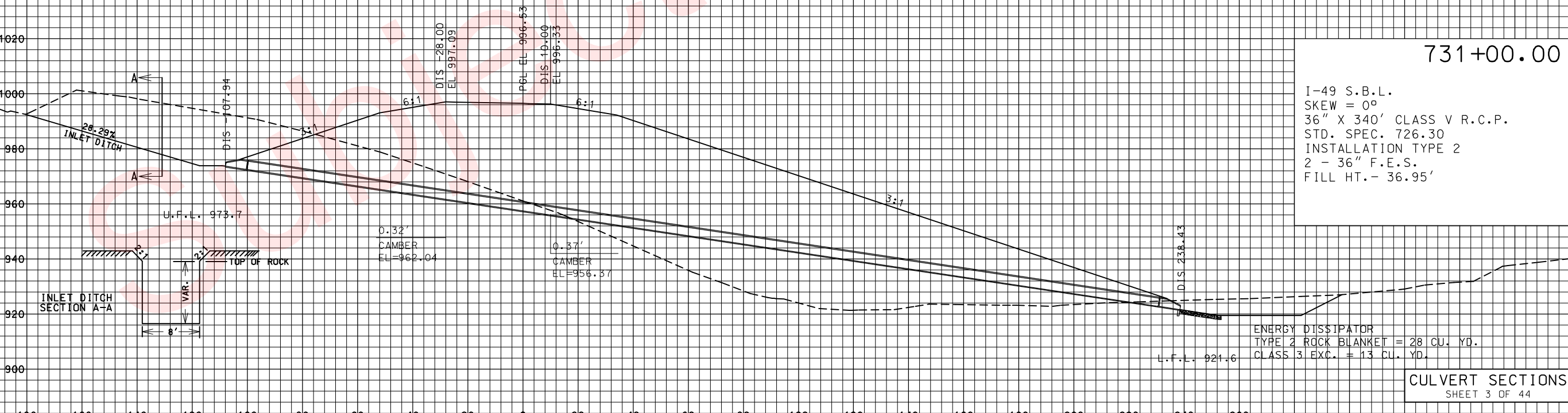
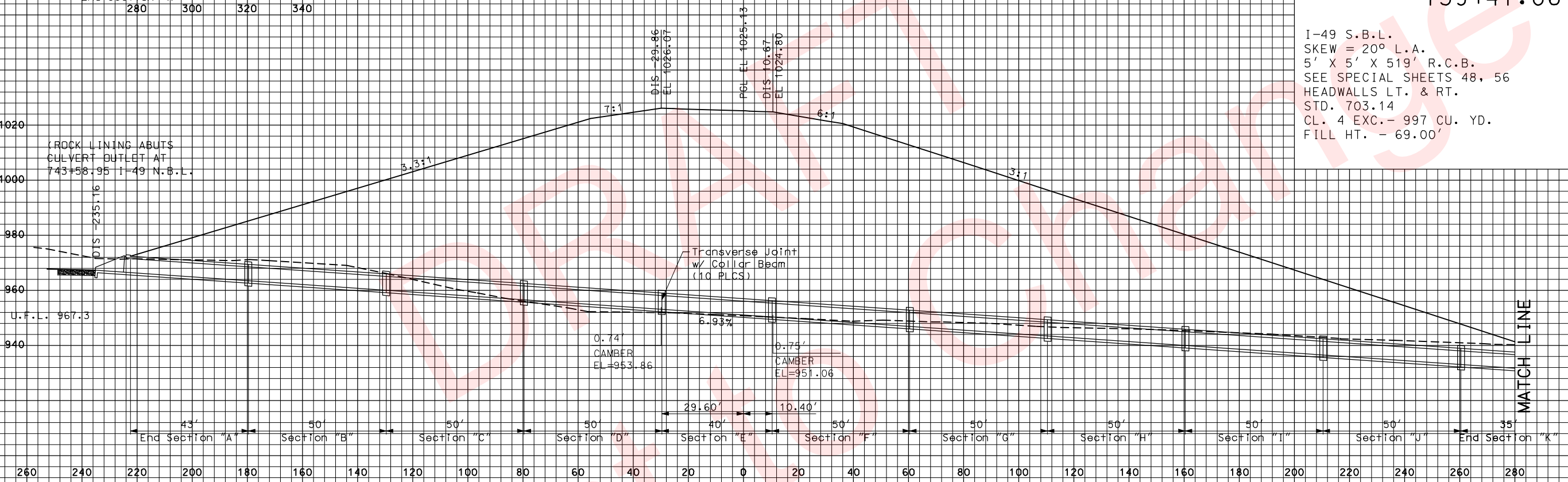
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



739+41.86
I-49 S.B.L.
SKEW = 20° L.A.
5' X 5' X 519' R.C.B.
SEE SPECIAL SHEETS 48, 56
HEADWALLS LT. & RT.
STD. 703.14
CL. 4 EXC. - 997 CU. YD.
FILL HT. - 69.00'



731+00.00
I-49 S.B.L.
SKEW = 0°
36" X 340' CLASS V R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 2
2 - 36" F.E.S.
FILL HT. - 36.95'

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. 118

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

783+66.96

I-49
SKEW = 13° R.A.
30" X 341' CLASS V R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
2 - 30" F.E.S.
FILL HT. - 38.59'

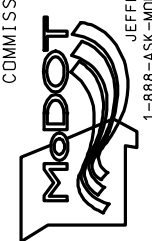
768+06.77

I-49
SKEW = 8° R.A.
10' X 8' X 504' R.C.B.
SEE SPECIAL SHEETS 49, 56
HEADWALLS LT. & RT.
STD. 703.14
CL. 4 EXC. - 1148 CU. YD.
FILL HT. - 103.75'

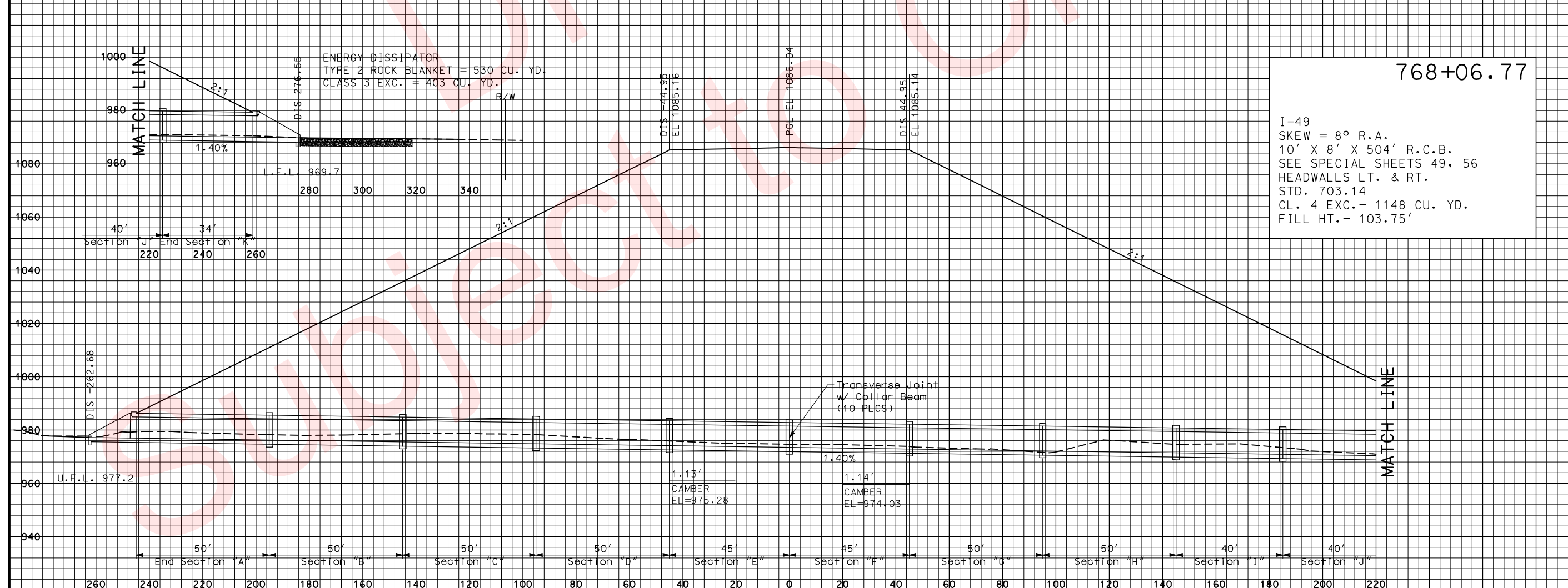
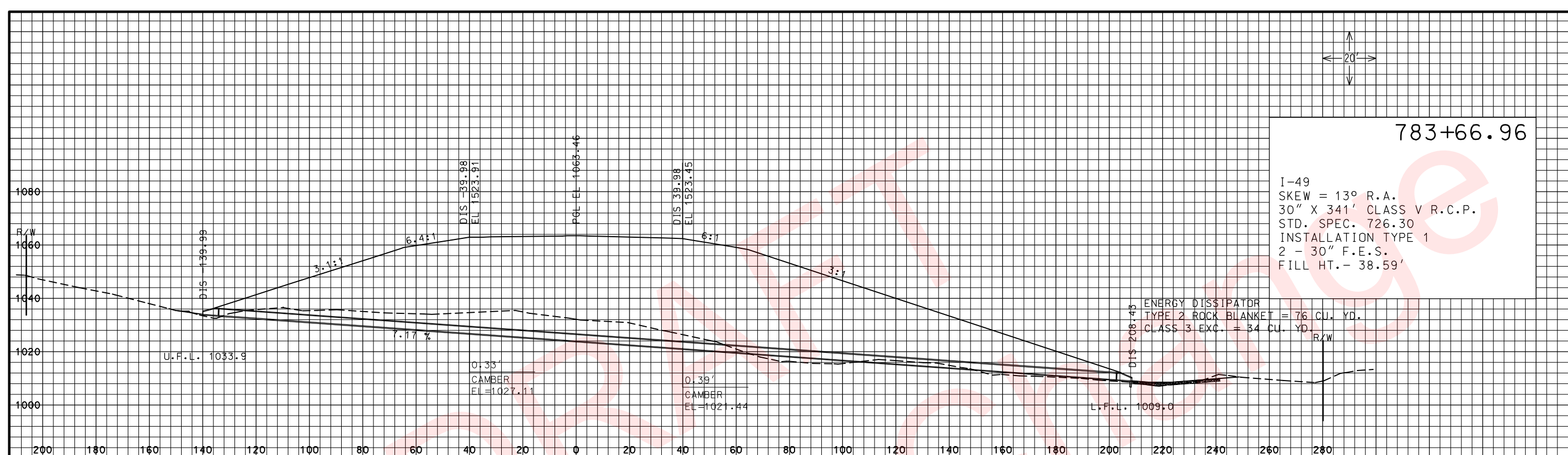
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



CULVERT SECTIONS
SHEET 4 OF 44

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

DATE PREPARED
02/04/2010

ROUTE STATE
49 MO
DISTRICT SHEET NO.
7 119

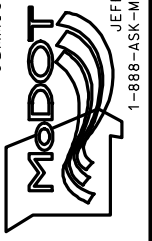
COUNTY
MCDONALD
JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION

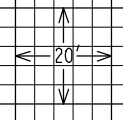
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

REV.



831+22.78
I-49
SKEW = 19° R.A.
36" X 421' CLASS V R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
2 - 36" F.E.S.
FILL HT. - 49.97'

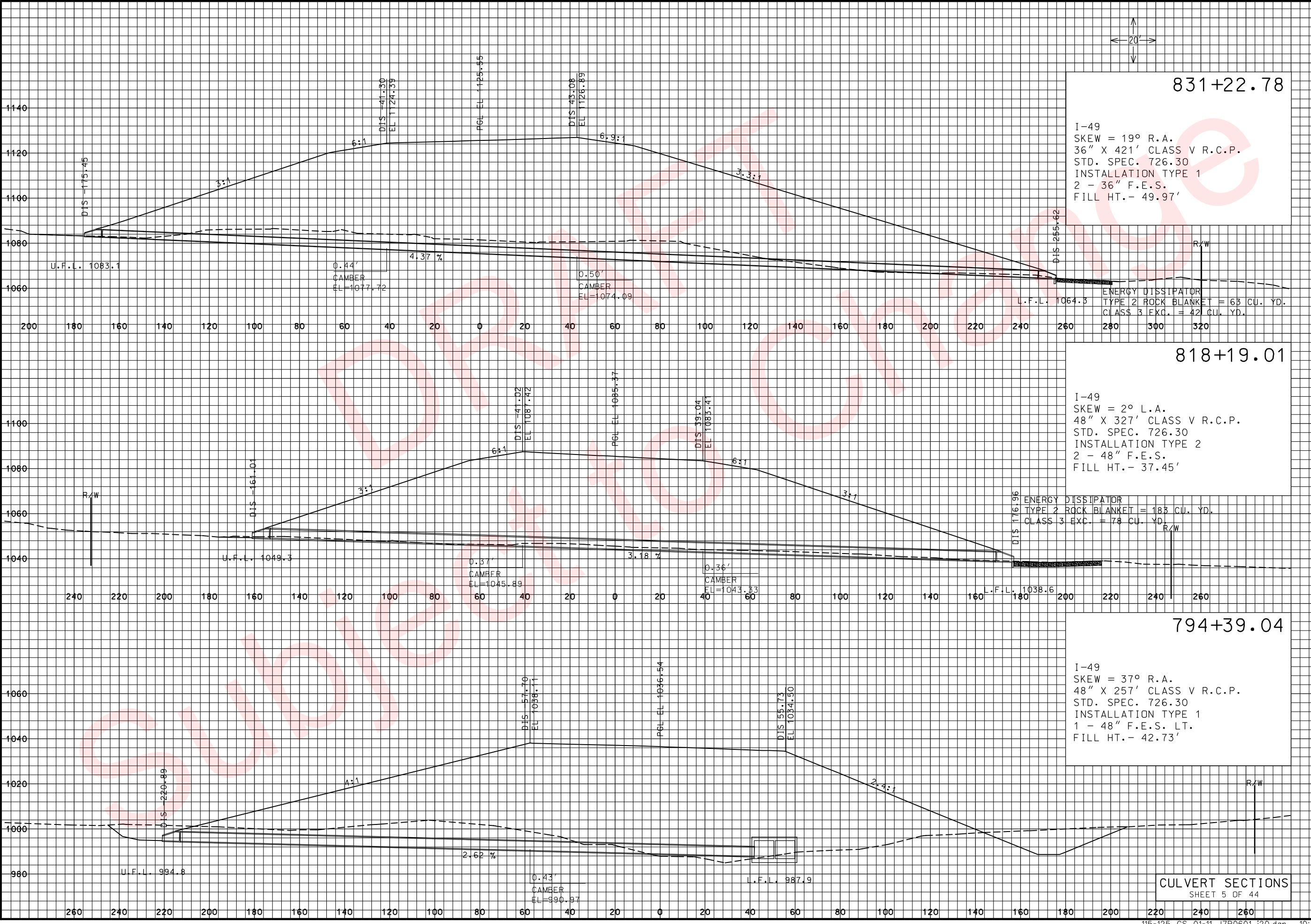
818+19.01
I-49
SKEW = 2° L.A.
48" X 327' CLASS V R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 2
2 - 48" F.E.S.
FILL HT. - 37.45'

794+39.04
I-49
SKEW = 37° R.A.
48" X 257' CLASS V R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 1
1 - 48" F.E.S. LT.
FILL HT. - 42.73'

ENERGY DISSIPATOR
TYPE 2 ROCK BLANKET = 63 CU. YD.
CLASS 3 EXC. = 42 CU. YD.

ENERGY DISSIPATOR
TYPE 2 ROCK BLANKET = 183 CU. YD.
CLASS 3 EXC. = 78 CU. YD.

CULVERT SECTIONS
SHEET 5 OF 44



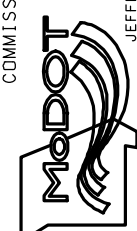
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 120
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

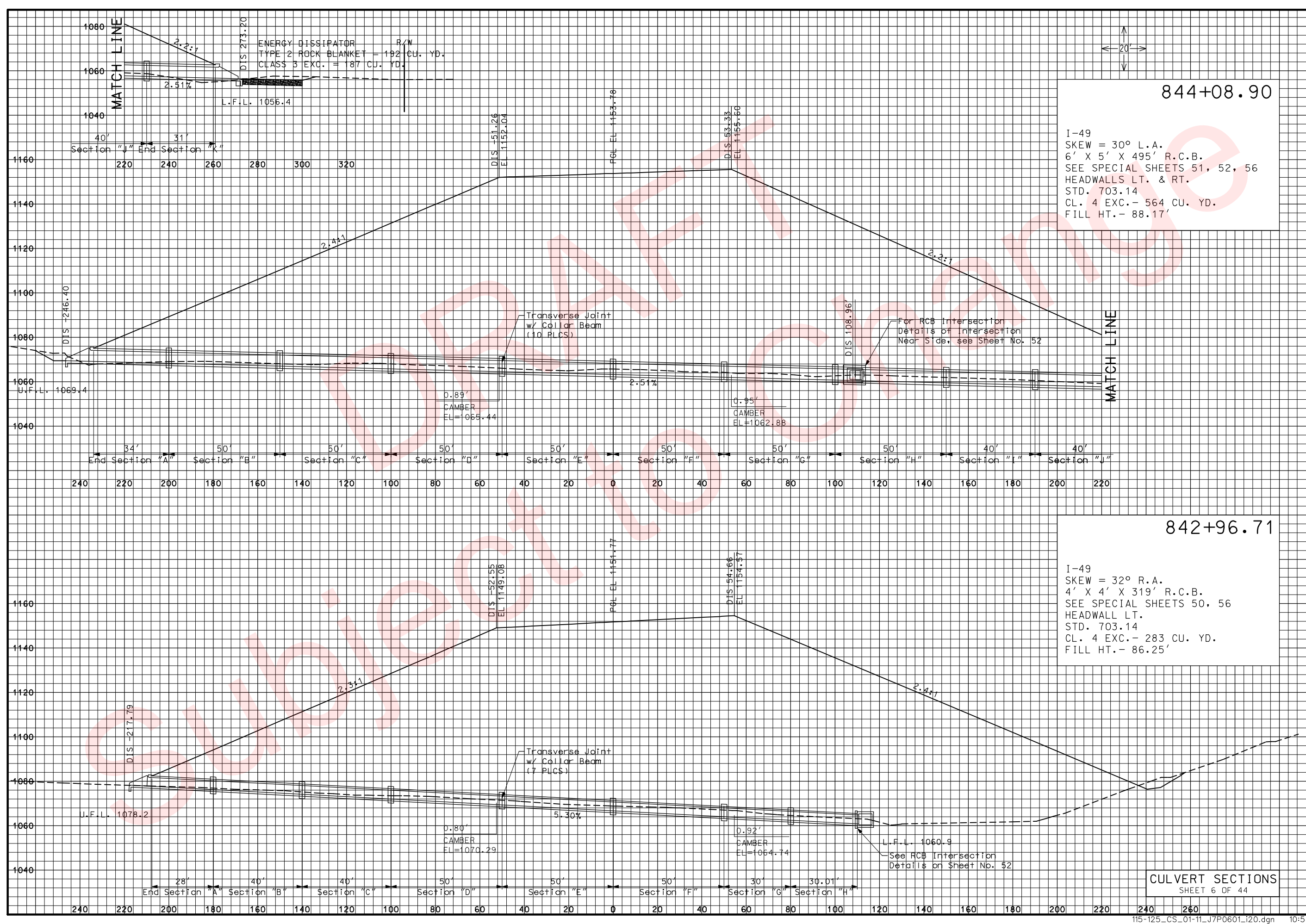
DESCRIPTION	DATE

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



844+08.90
I-49
SKEW = 30° L.A.
6' X 5' X 495' R.C.B.
SEE SPECIAL SHEETS 51, 52, 56
HEADWALLS LT. & RT.
STD. 703.14
CL. 4 EXC. - 564 CU. YD.
FILL HT. - 88.17'

842+96.71
I-49
SKEW = 32° R.A.
4' X 4' X 319' R.C.B.
SEE SPECIAL SHEETS 50, 56
HEADWALL LT.
STD. 703.14
CL. 4 EXC. - 283 CU. YD.
FILL HT. - 86.25'



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. 121

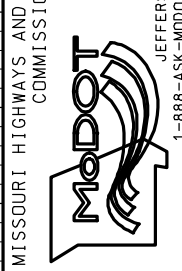
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

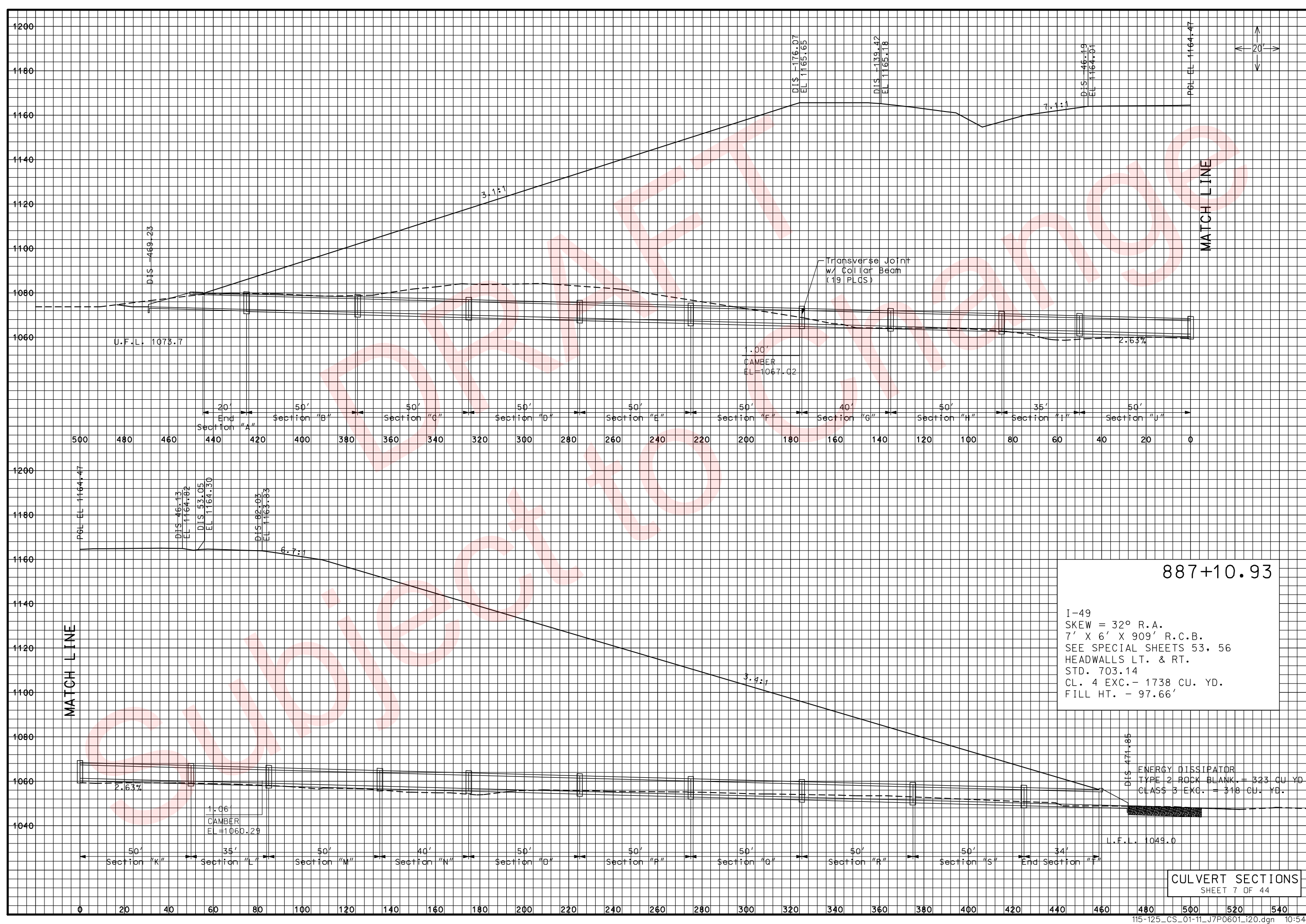
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



REV.



CULVERT SECTIONS
SHEET 7 OF 44

"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	

DATE	
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

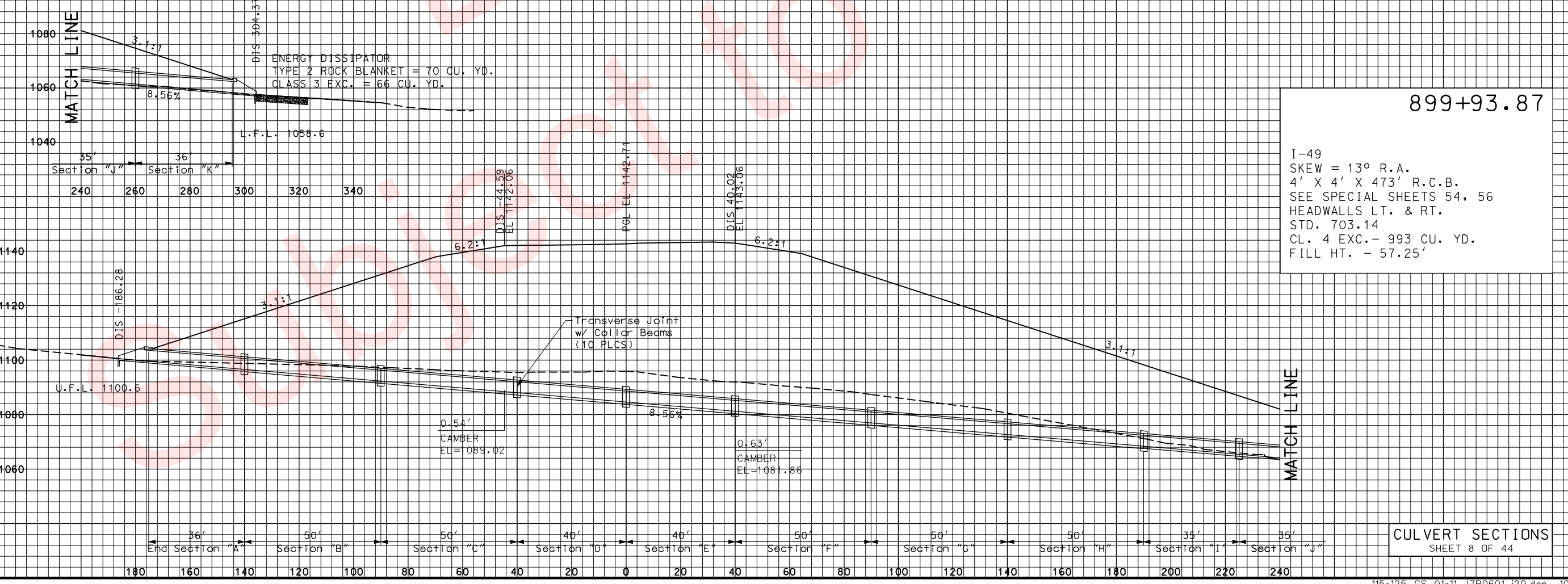
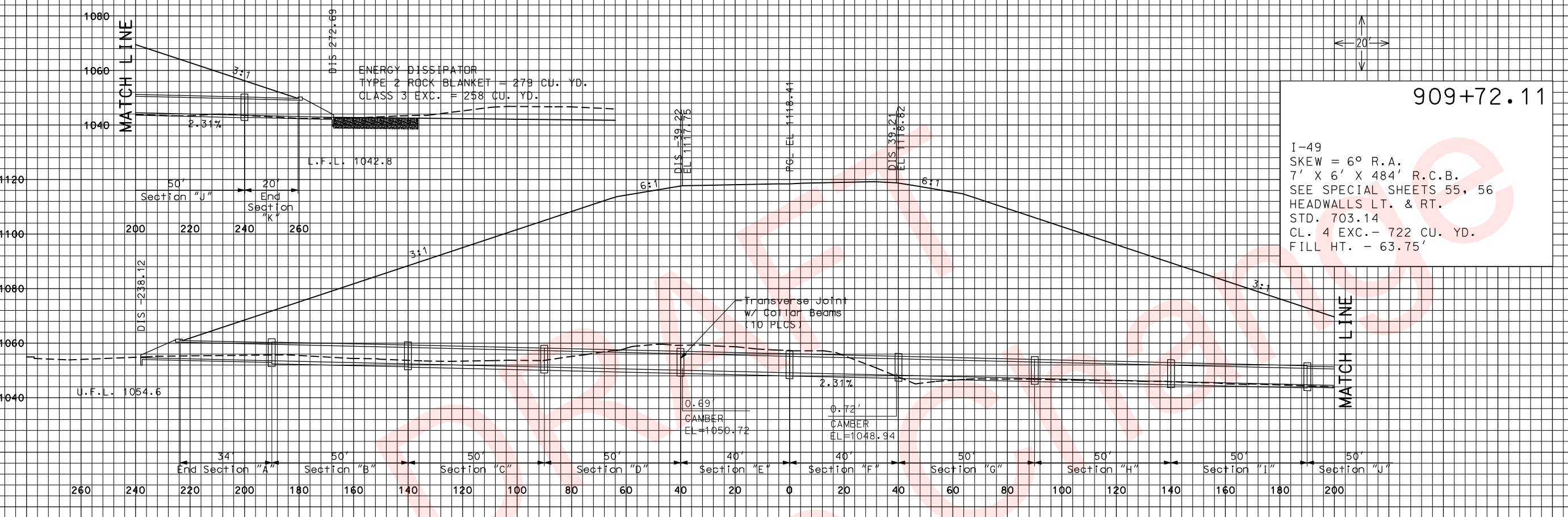


909+72.11

I-49
SKEW = 6° R.A.
7' X 6' X 484' R.C.B.
SEE SPECIAL SHEETS 55, 56
HEADWALLS LT. & RT.
STD. 703.14
CL. 4 EXC. - 722 CU. YD.
FILL HT. - 63.75'

899+93.87

I-49
SKEW = 13° R.A.
4' X 4' X 473' R.C.B.
SEE SPECIAL SHEETS 54, 56
HEADWALLS LT. & RT.
STD. 703.14
CL. 4 EXC. - 993 CU. YD.
FILL HT. - 57.25'



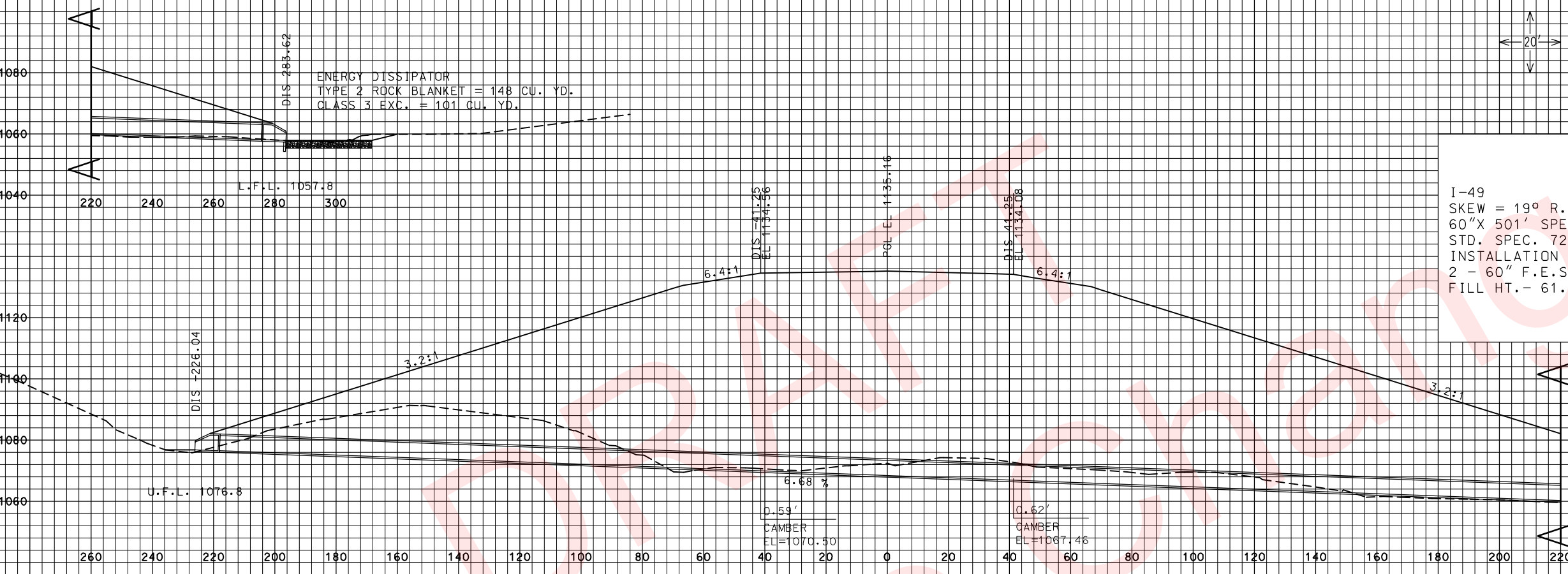
CULVERT SECTIONS
SHEET 8 OF 44

"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.	

964+60.36

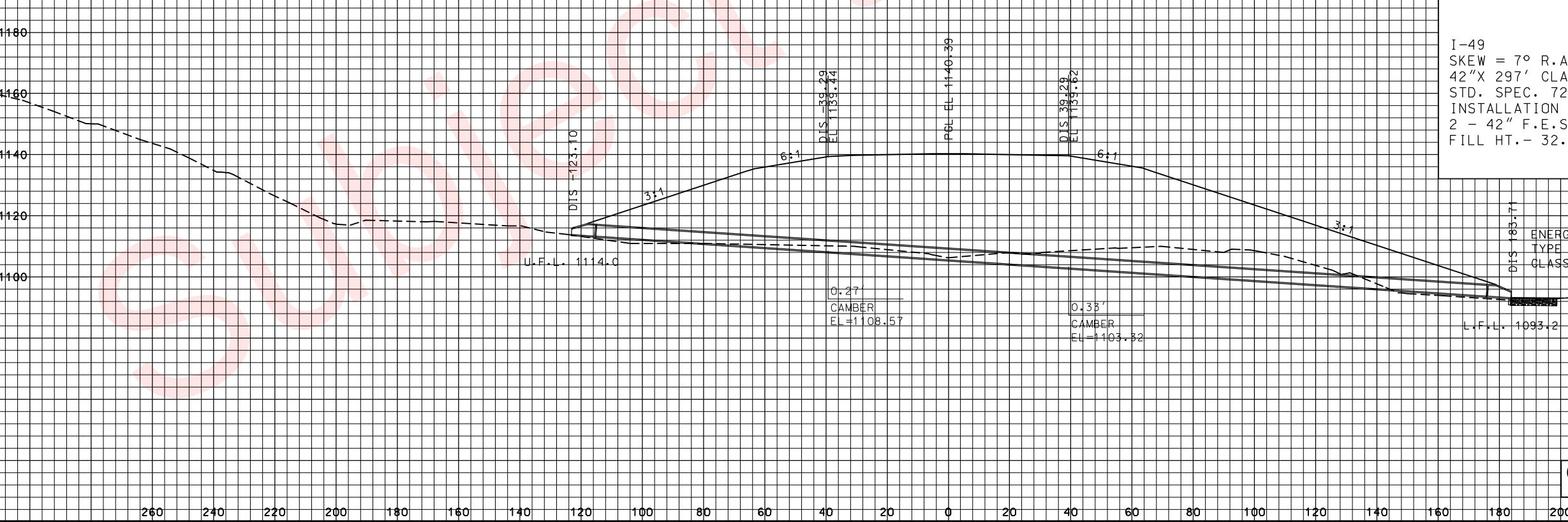
I-49
 SKEW = 19° R.A.
 60" X 501' SPECIAL DESIGN R.C.P.
 STD. SPEC. 726.30
 INSTALLATION TYPE 1
 2 - 60" F.E.S.
 FILL HT. - 61.74'



DESCRIPTION	DATE

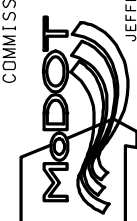
958+02.44

I-49
 SKEW = 7° R.A.
 42" X 297' CLASS IV R.C.P.
 STD. SPEC. 726.30
 INSTALLATION TYPE 1
 2 - 42" F.E.S.
 FILL HT. - 32.74'



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



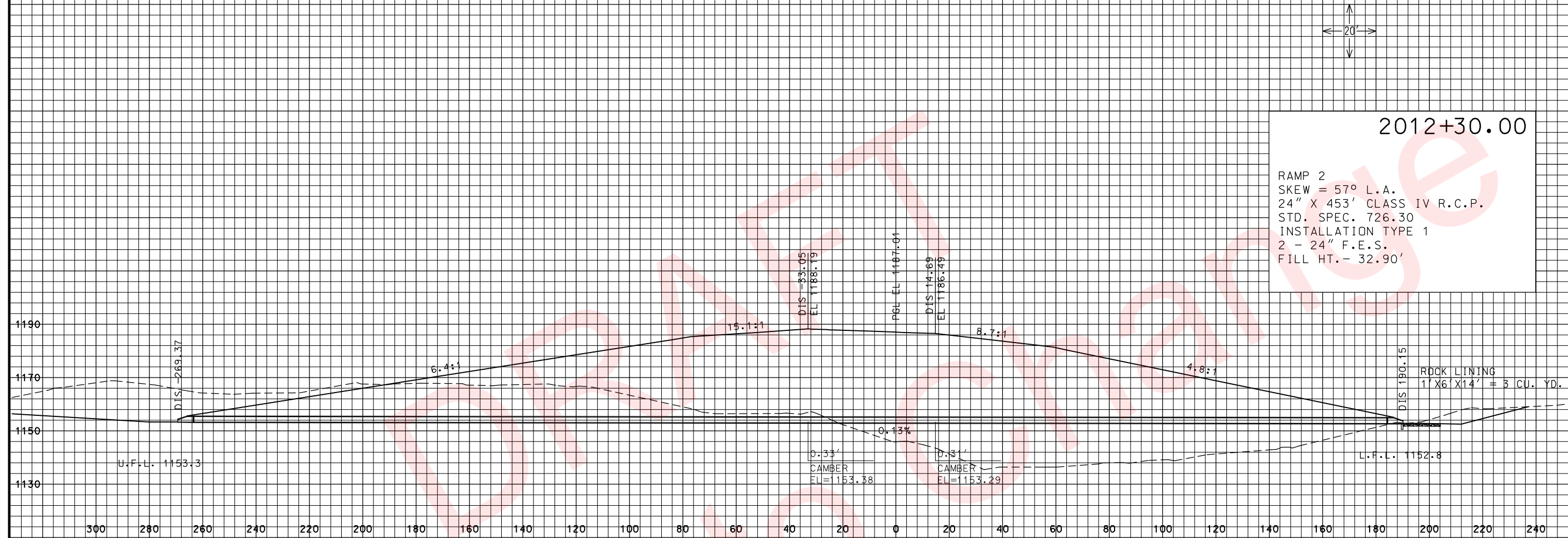
CULVERT SECTIONS
 SHEET 9 OF 44

"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.	

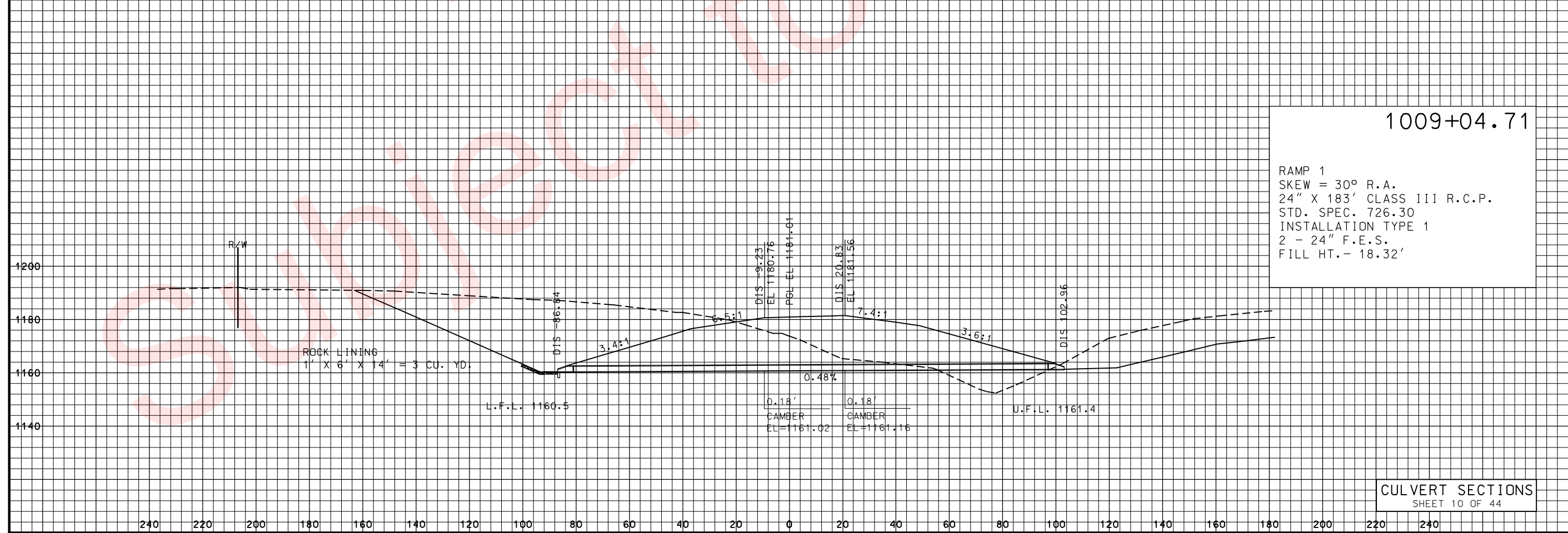
2012+30.00

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'



CULVERT SECTIONS
SHEET 10 OF 44

DESCRIPTION	DATE	REVISION

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."

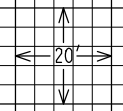
DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 125
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

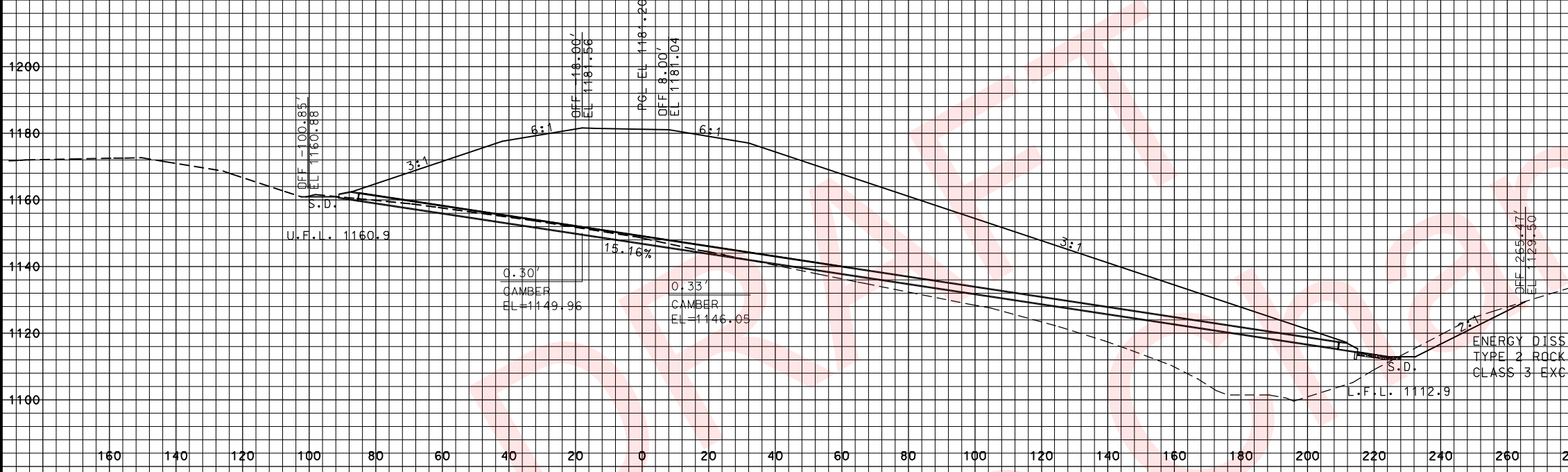


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



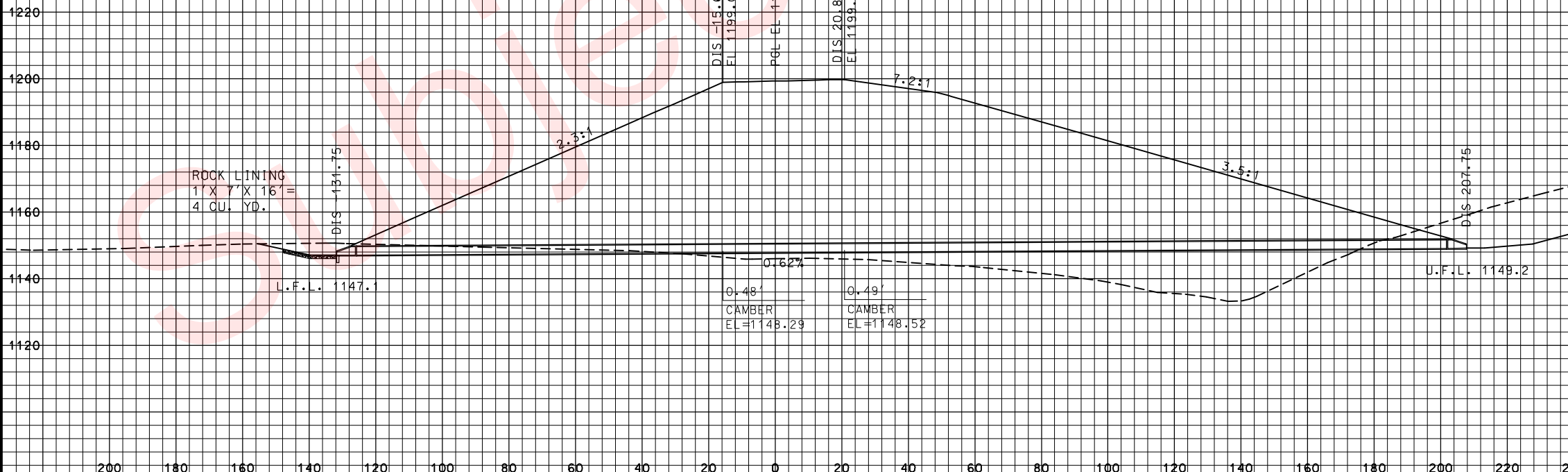
4007+25.00

RAMP 4
 SKEW = 0°
 24" X 303' CLASS IV R.C.P.
 STD. SPEC. 726.30
 INSTALLATION TYPE 1
 2 - 24" F.E.S.
 FILL HT. - 33.05'



3003+51.72

RAMP 3
 SKEW = 30° L.A.
 30" X 331' CLASS V R.C.P.
 STD. SPEC. 726.30
 INSTALLATION TYPE 1
 2 - 30" F.E.S.
 FILL HT. - 48.40'



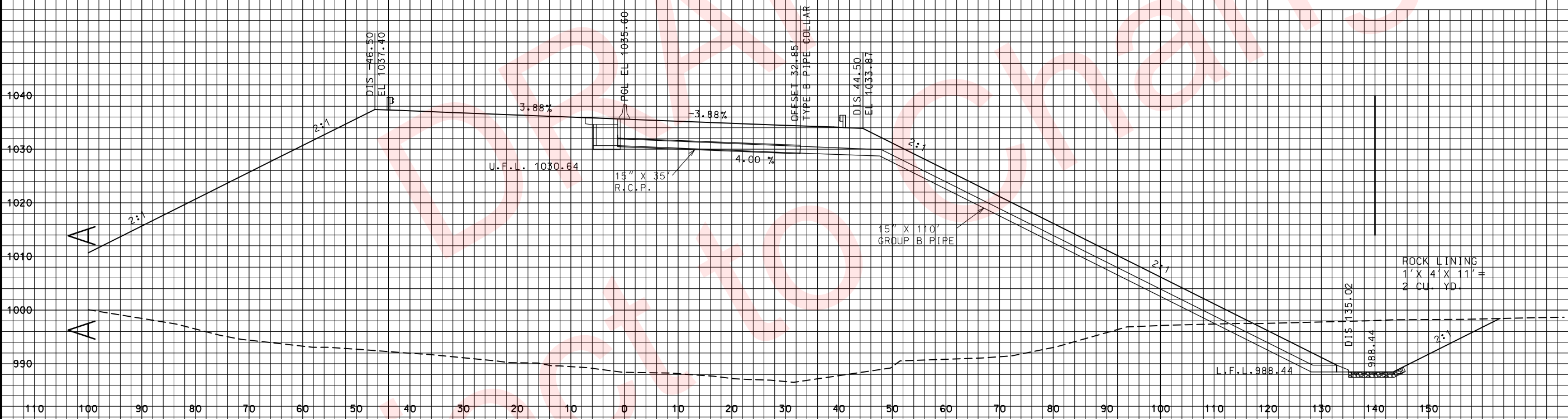
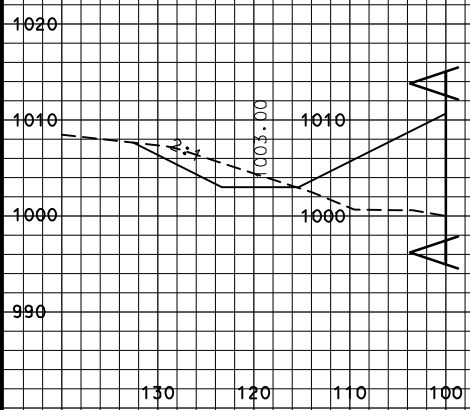
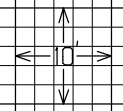
CULVERT SECTIONS
SHEET 11 OF 44

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

DATE PREPARED 02/04/2010	
ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 126
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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'



DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CULVERT SECTIONS
 SHEET 12 OF 44

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

DATE PREPARED
02/04/2010

ROUTE STATE
49 MO
DISTRICT SHEET NO.
7 127


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)



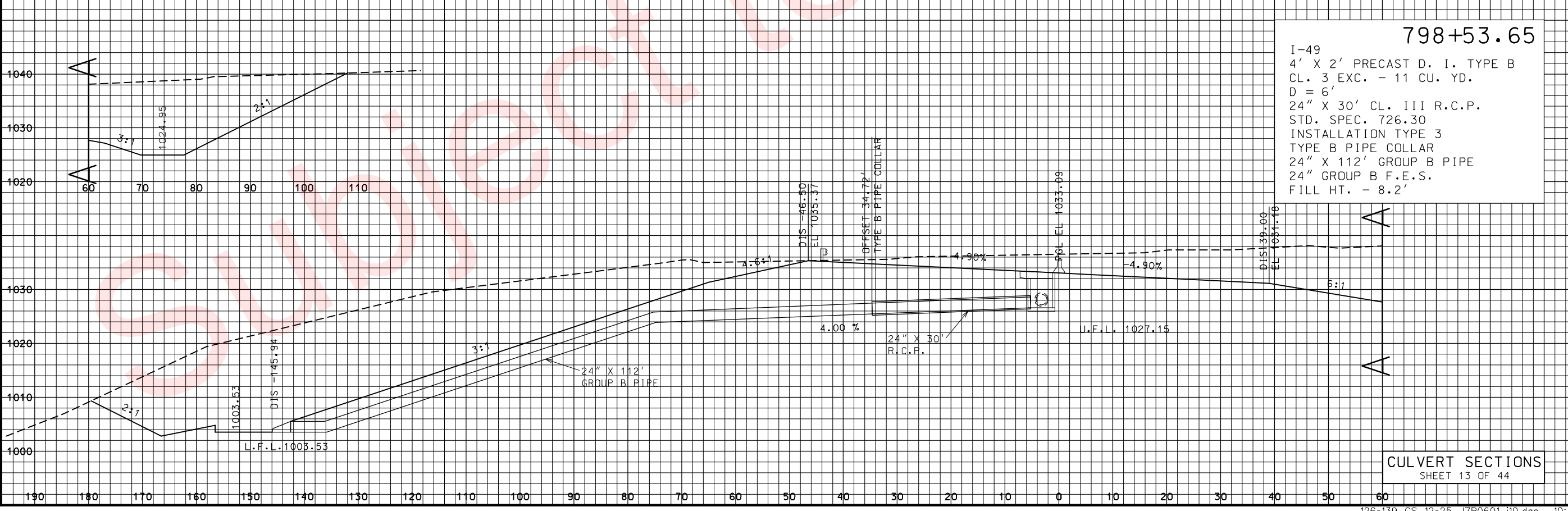
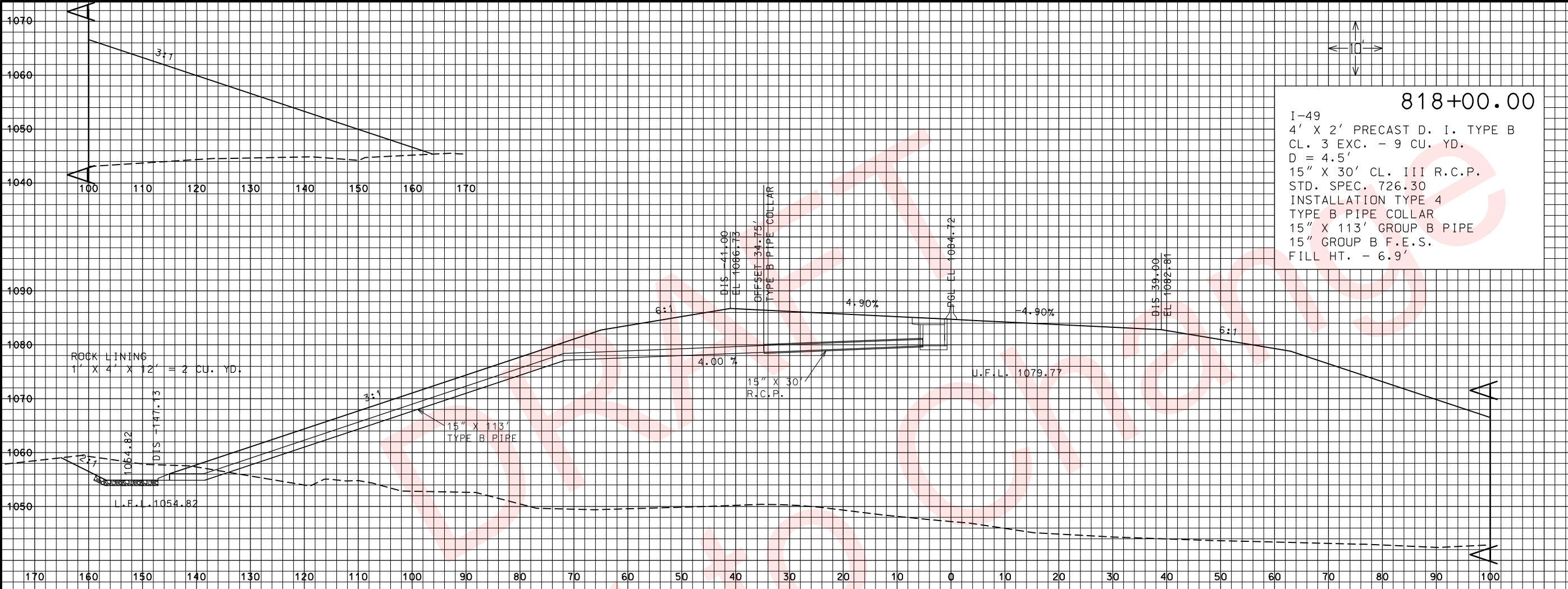
818+00.00

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 113' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 6.9'

798+53.65

I-49
4' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 11 CU. YD.
D = 6'
24" X 30' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 3
TYPE B PIPE COLLAR
24" X 112' GROUP B PIPE
24" GROUP B F.E.S.
FILL HT. - 8.2'

CULVERT SECTIONS
SHEET 13 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. 128

COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

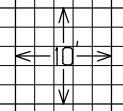
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



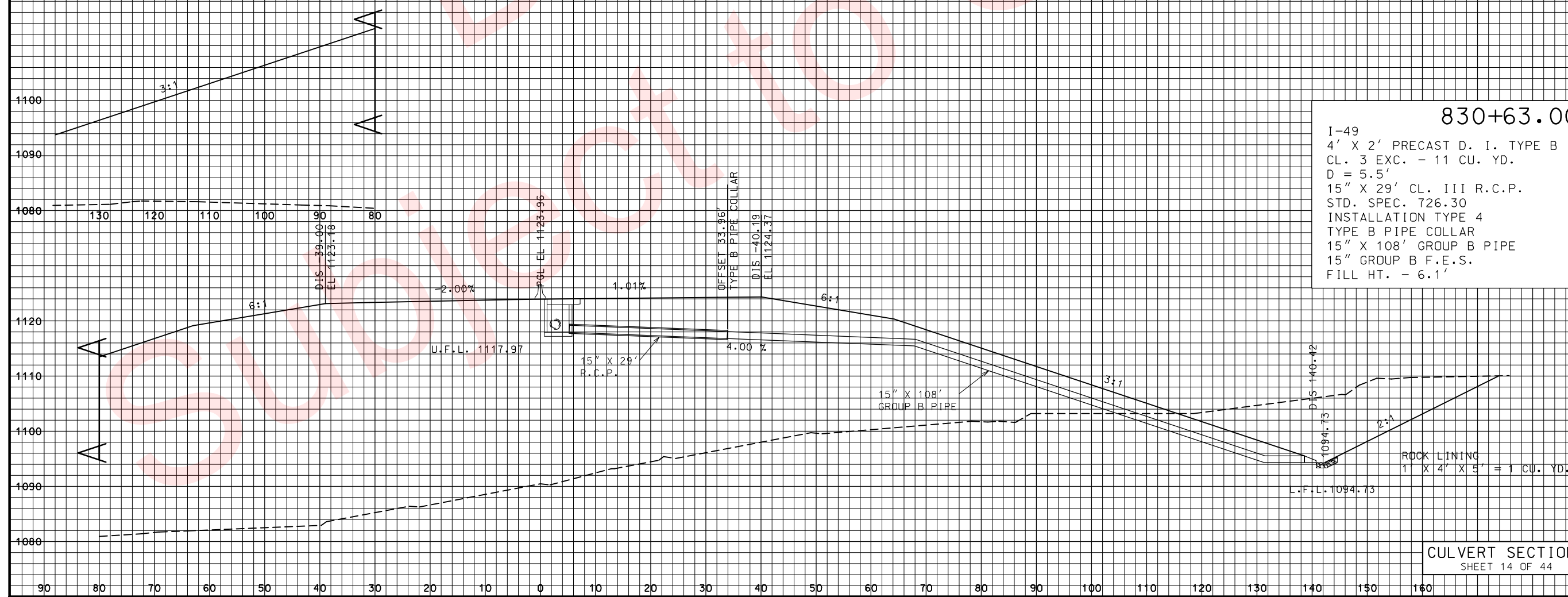
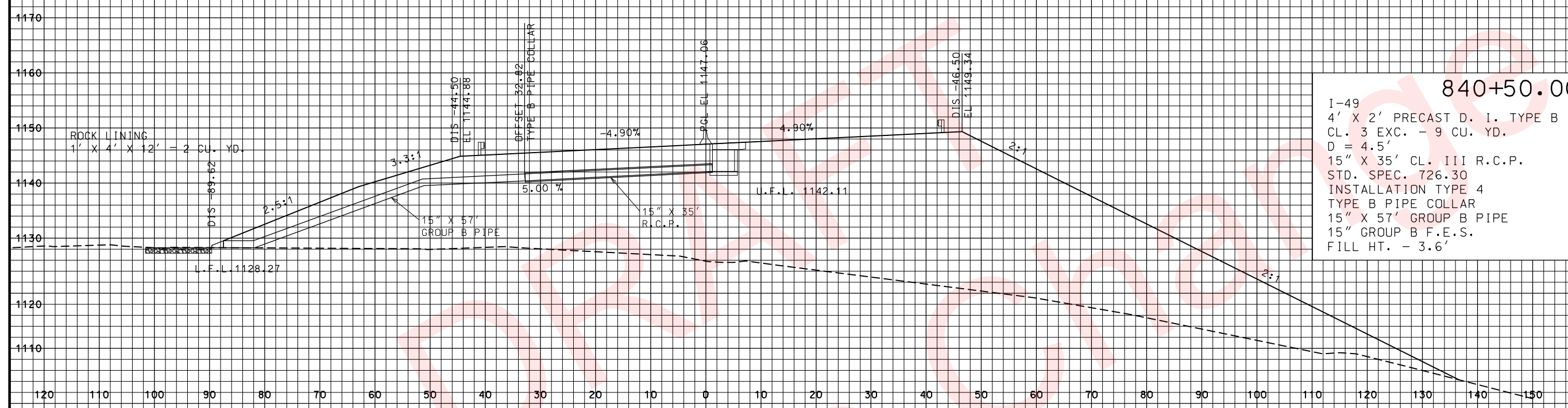
840+50.00

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 57' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 3.6'

830+63.00

I-49
4' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 11 CU. YD.
D = 5.5'
15" X 29' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 108' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 6.1'

CULVERT SECTIONS
SHEET 14 OF 44



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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.

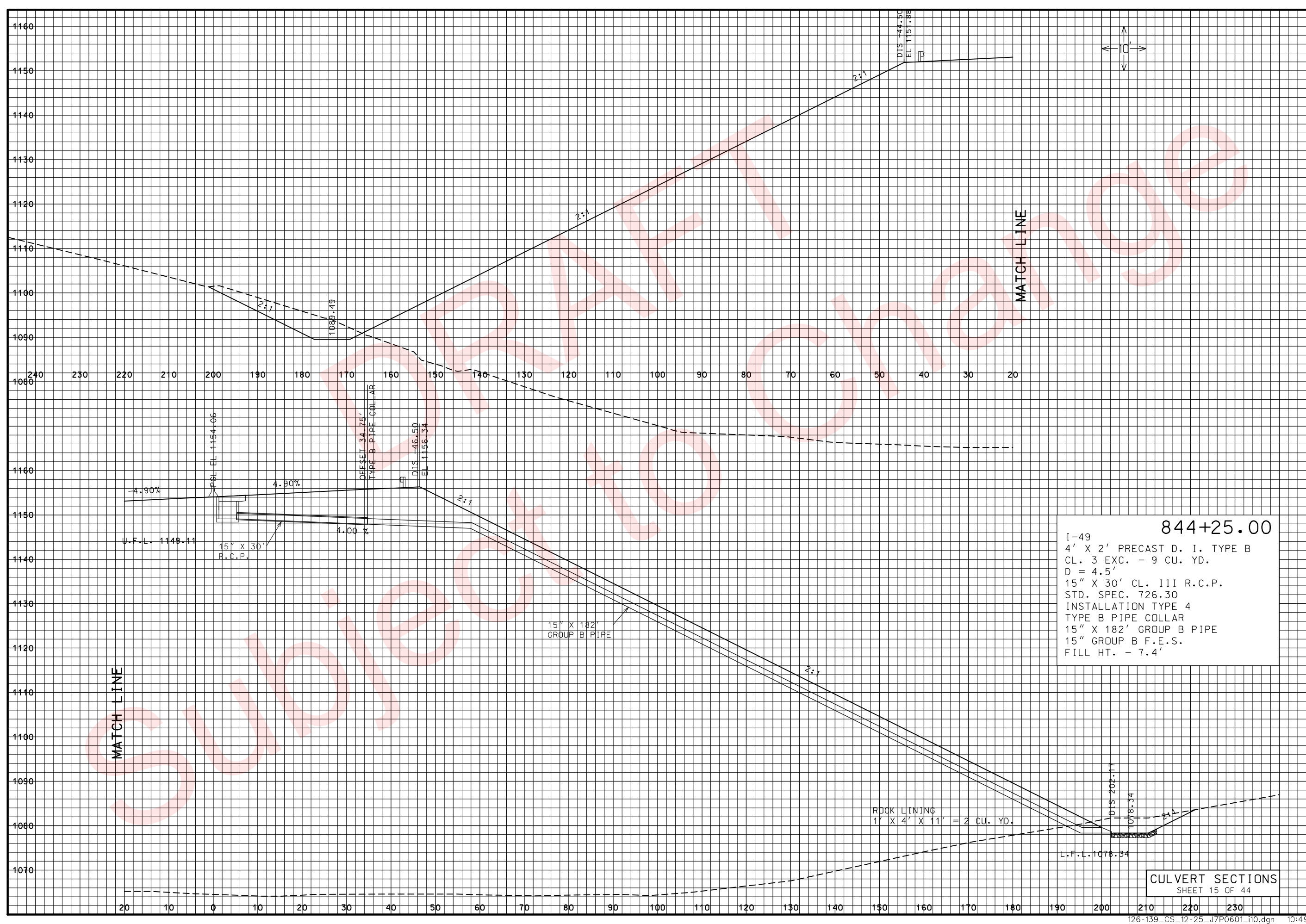
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



REV.



I-49
844+25.00
 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."

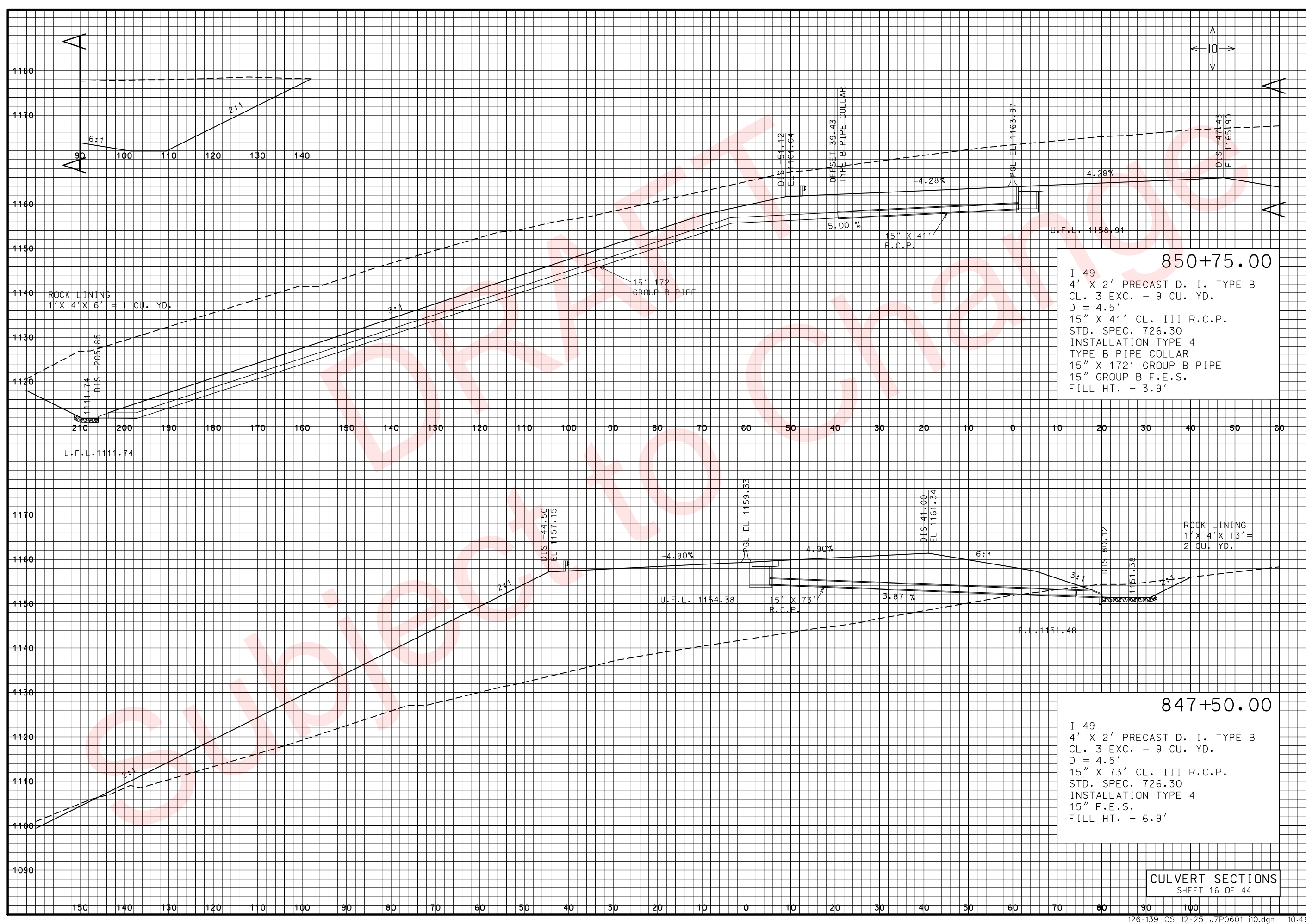
DATE PREPARED
02/04/2010
ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 130
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

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)

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



CULVERT SECTIONS
SHEET 16 OF 44

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

DATE PREPARED

02/04/2010

ROUTE STATE

49 MO

DISTRICT SHEET NO.

7 131

COUNTY

MCDONALD

JOB NO.

J7P0601

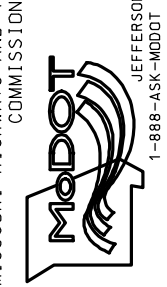
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PROJECT NO.

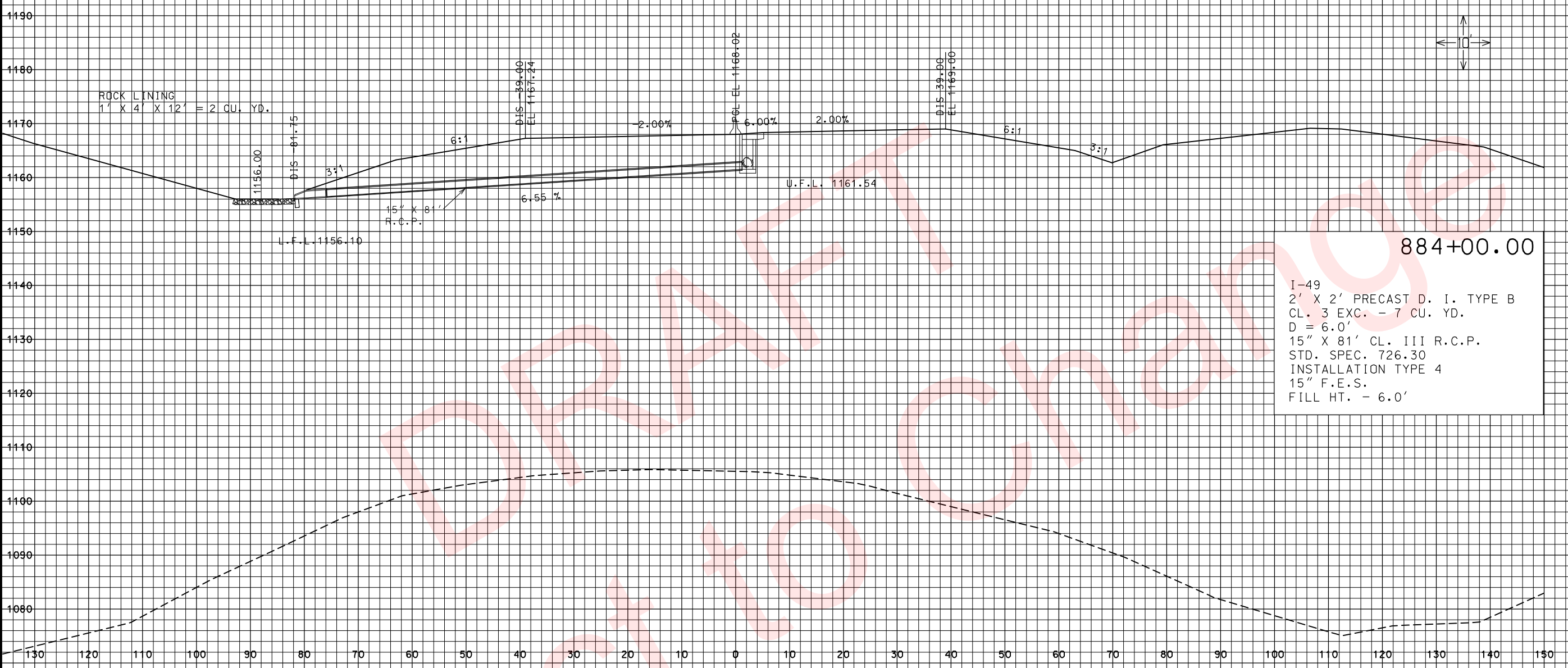
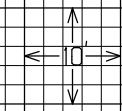
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

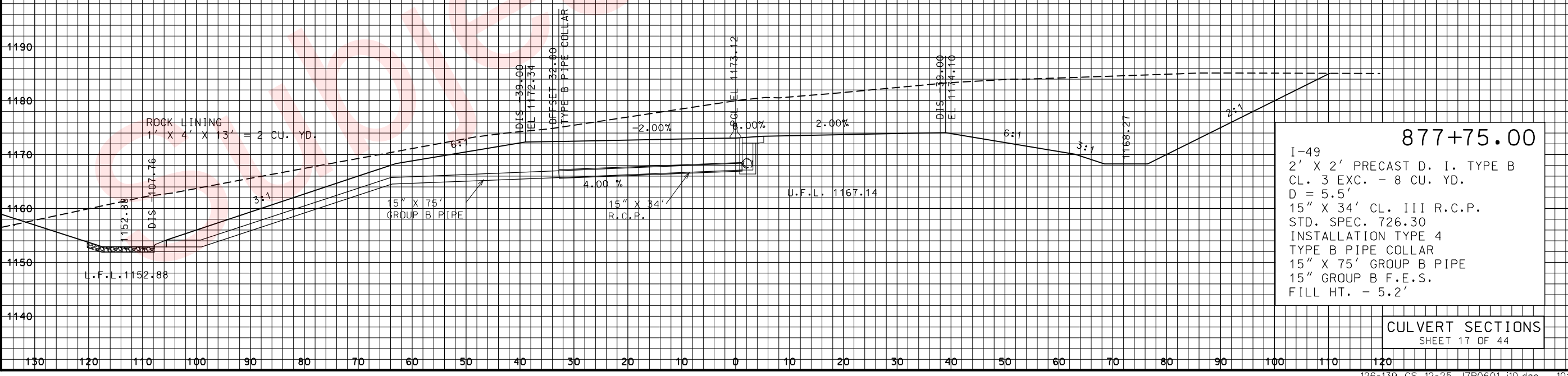


105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)



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. 132

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

PROJECT NO.

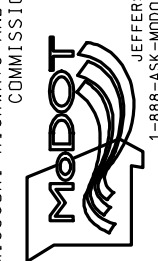
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DESCRIPTION

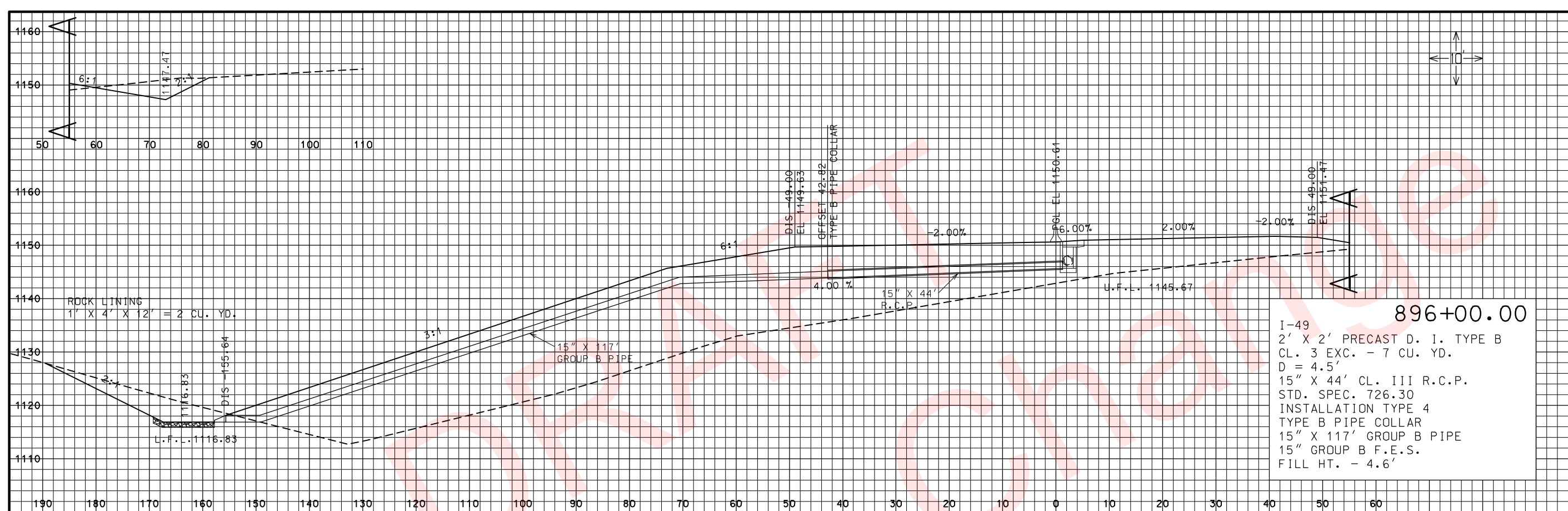
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

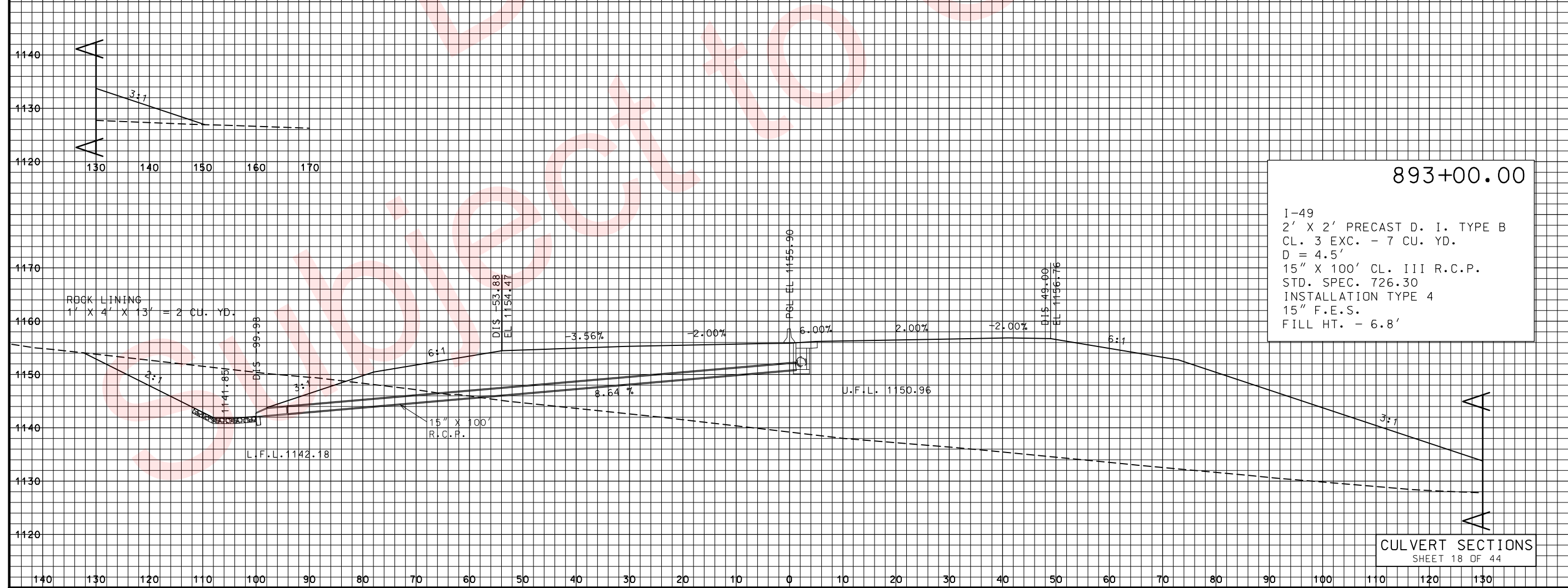


REV.



896+00.00

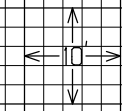
I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 44' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 117' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 4.6'



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'

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.

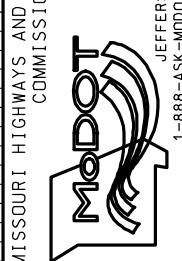
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



REV.

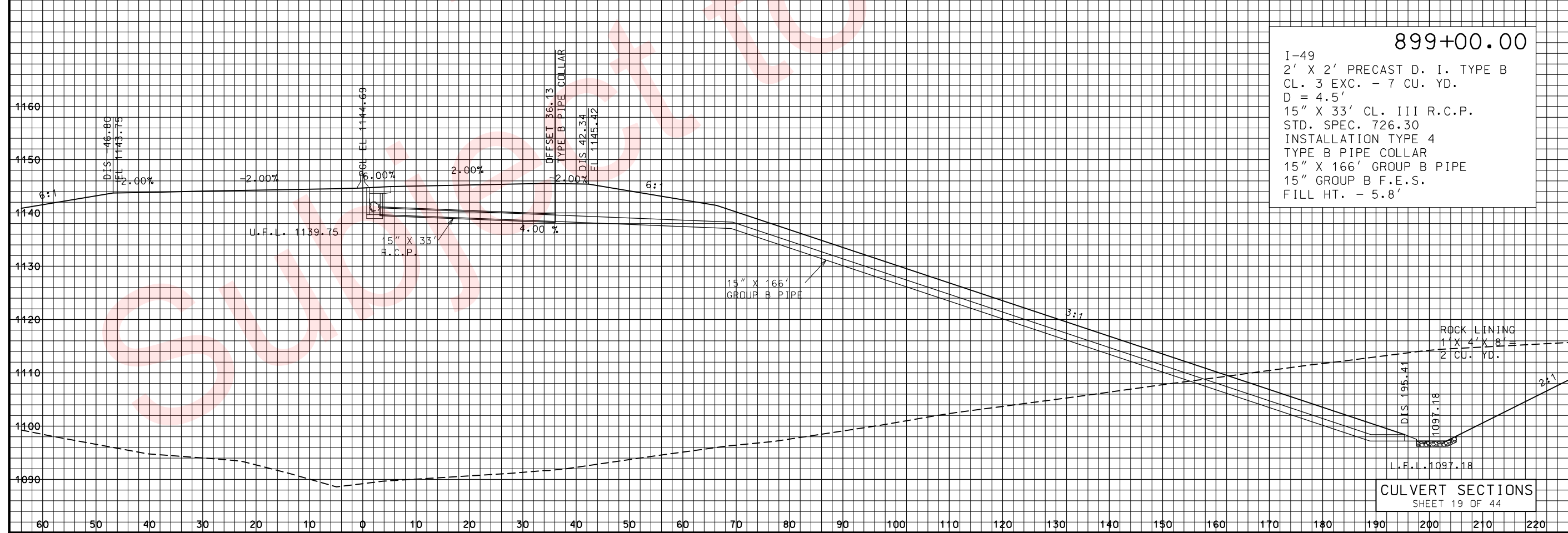
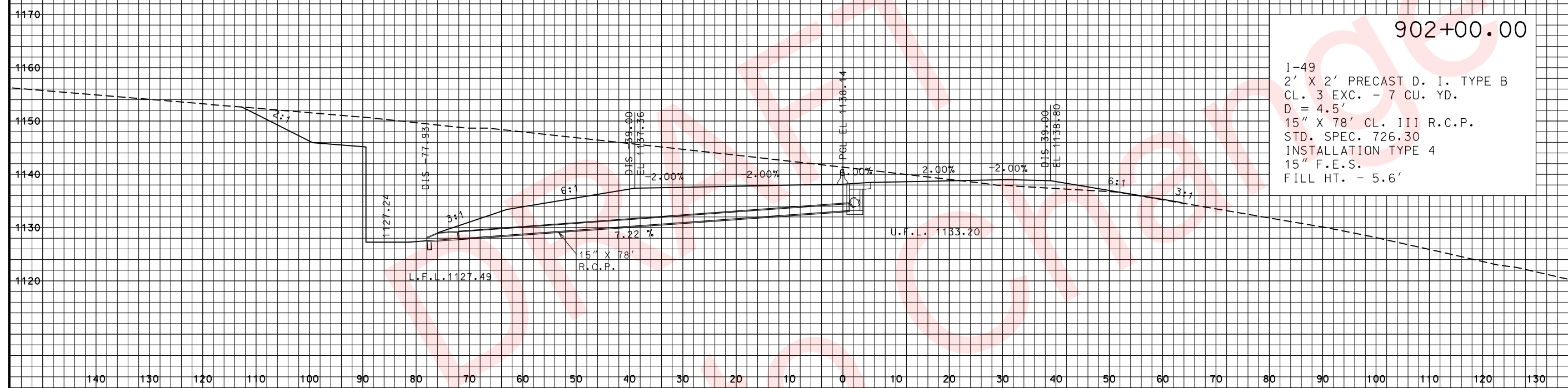
902+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 78' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 5.6'

899+00.00

I-49
2' X 2' PRECAST D. I. TYPE B
CL. 3 EXC. - 7 CU. YD.
D = 4.5'
15" X 33' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
TYPE B PIPE COLLAR
15" X 166' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 5.8'

CULVERT SECTIONS
SHEET 19 OF 44



"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.

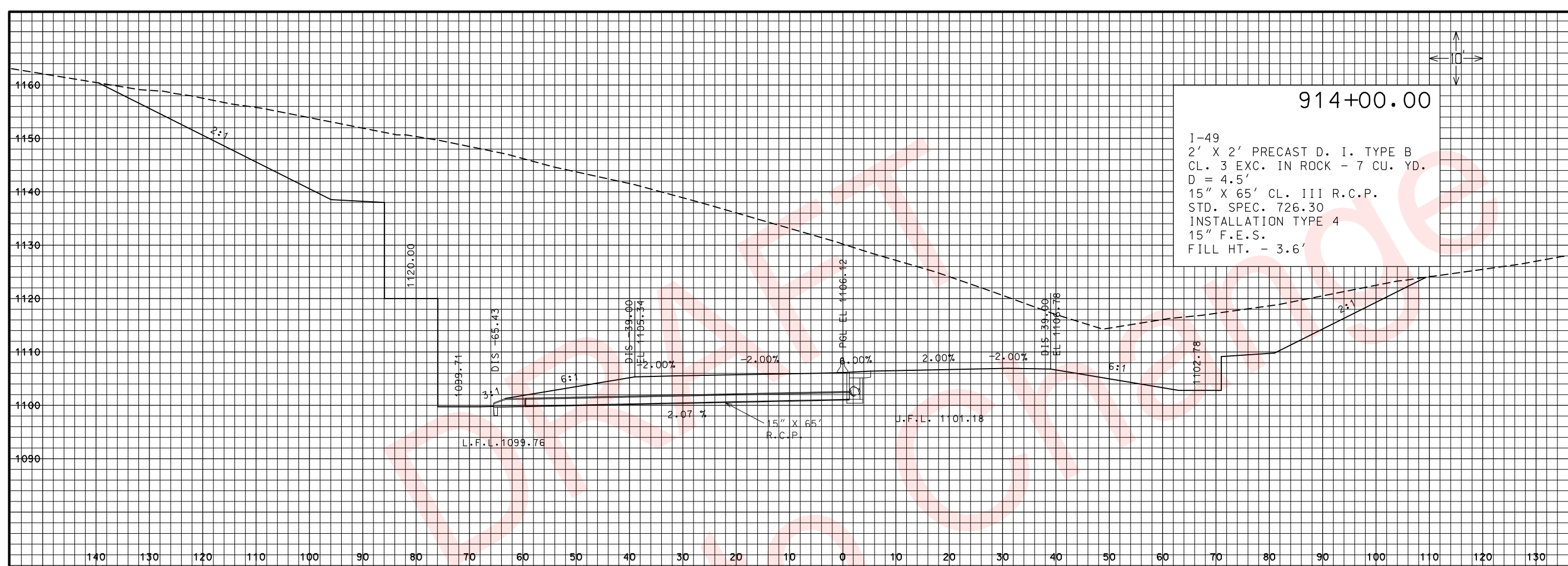
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

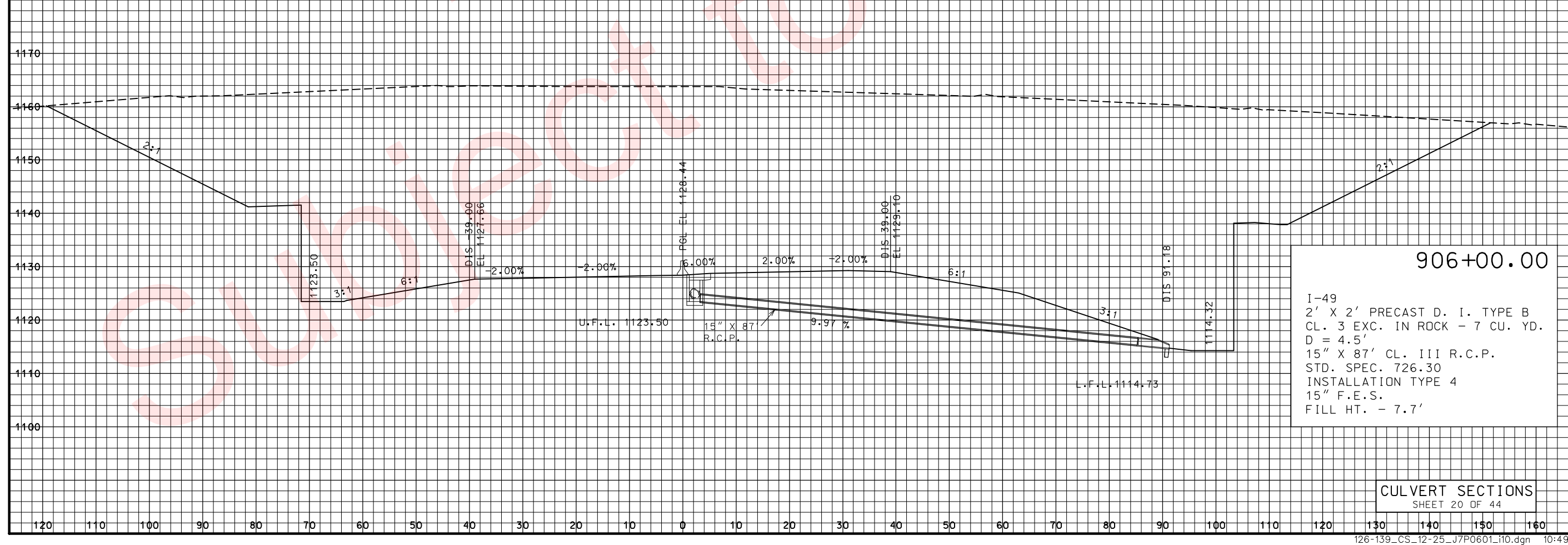
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



914+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'



906+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 87' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 4
15" F.E.S.
FILL HT. - 7.7'

CULVERT SECTIONS
SHEET 20 OF 44

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

DATE PREPARED
02/04/2010

ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 135

COUNTY
McDONALD
JOB NO.
J7P0601
CONTRACT ID.

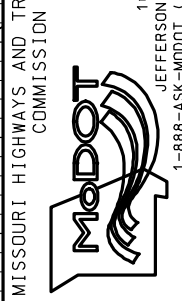
PROJECT NO.

BRIDGE NO.

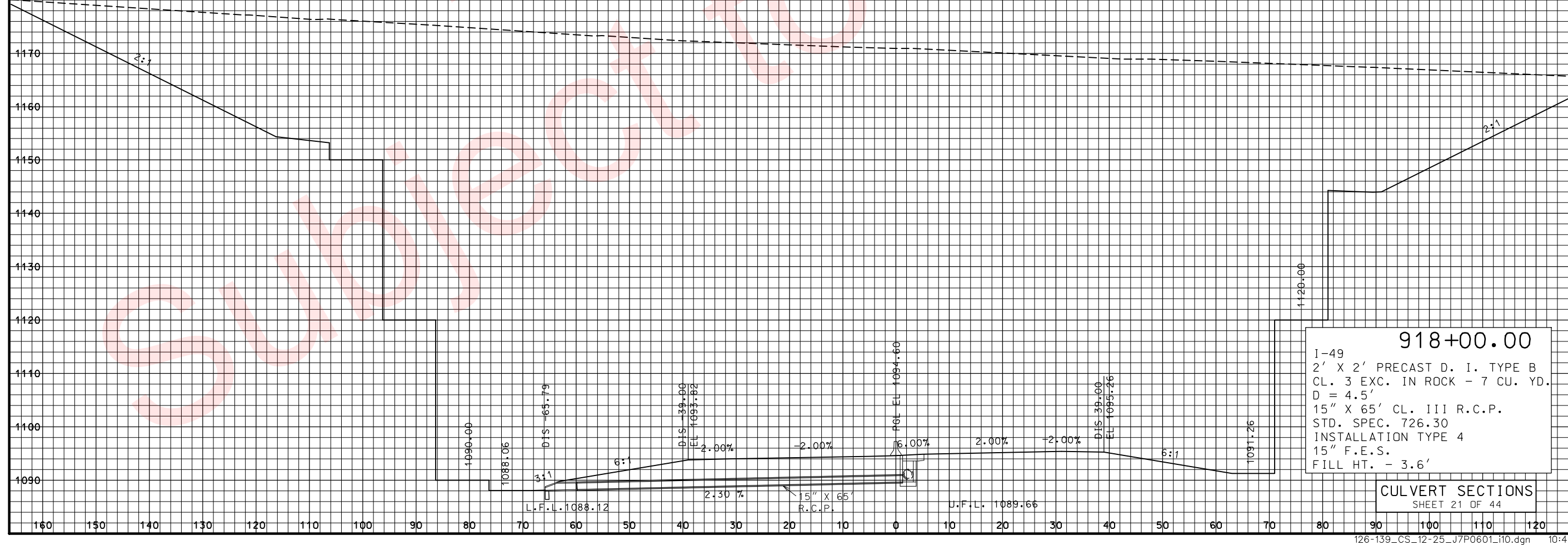
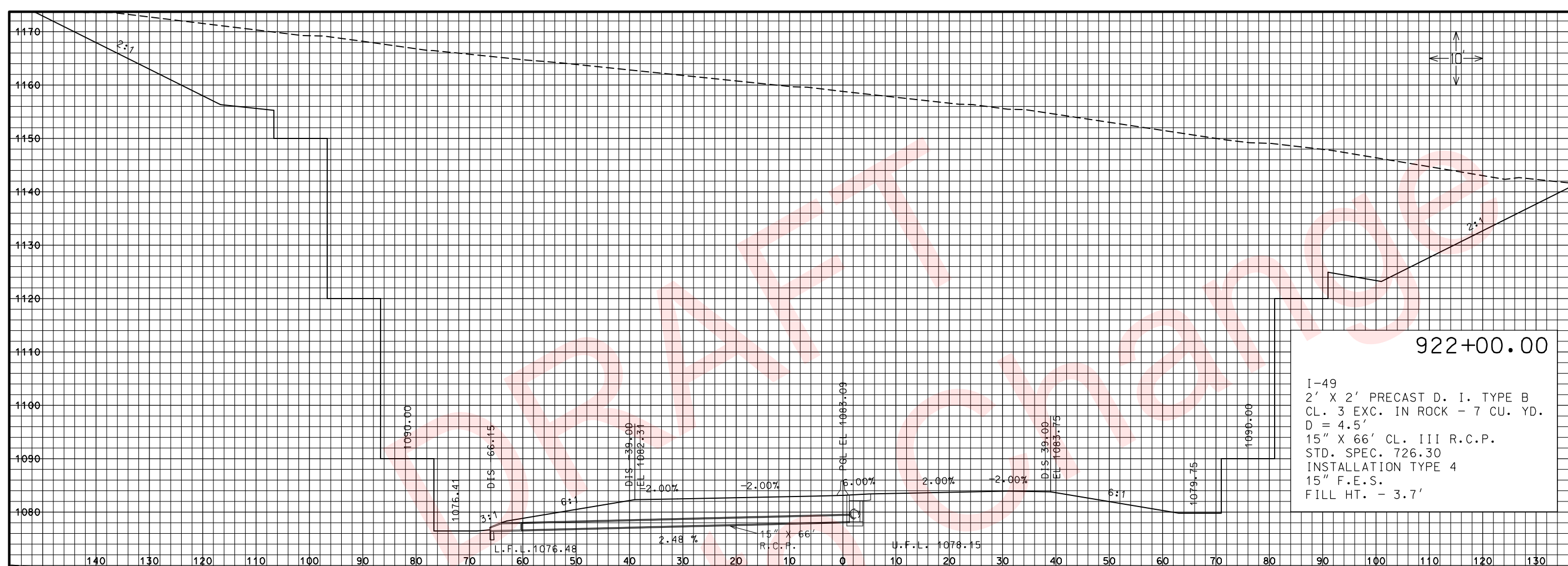
DESCRIPTION

DATE

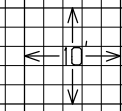
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



CULVERT SECTIONS
SHEET 21 OF 44



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

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)

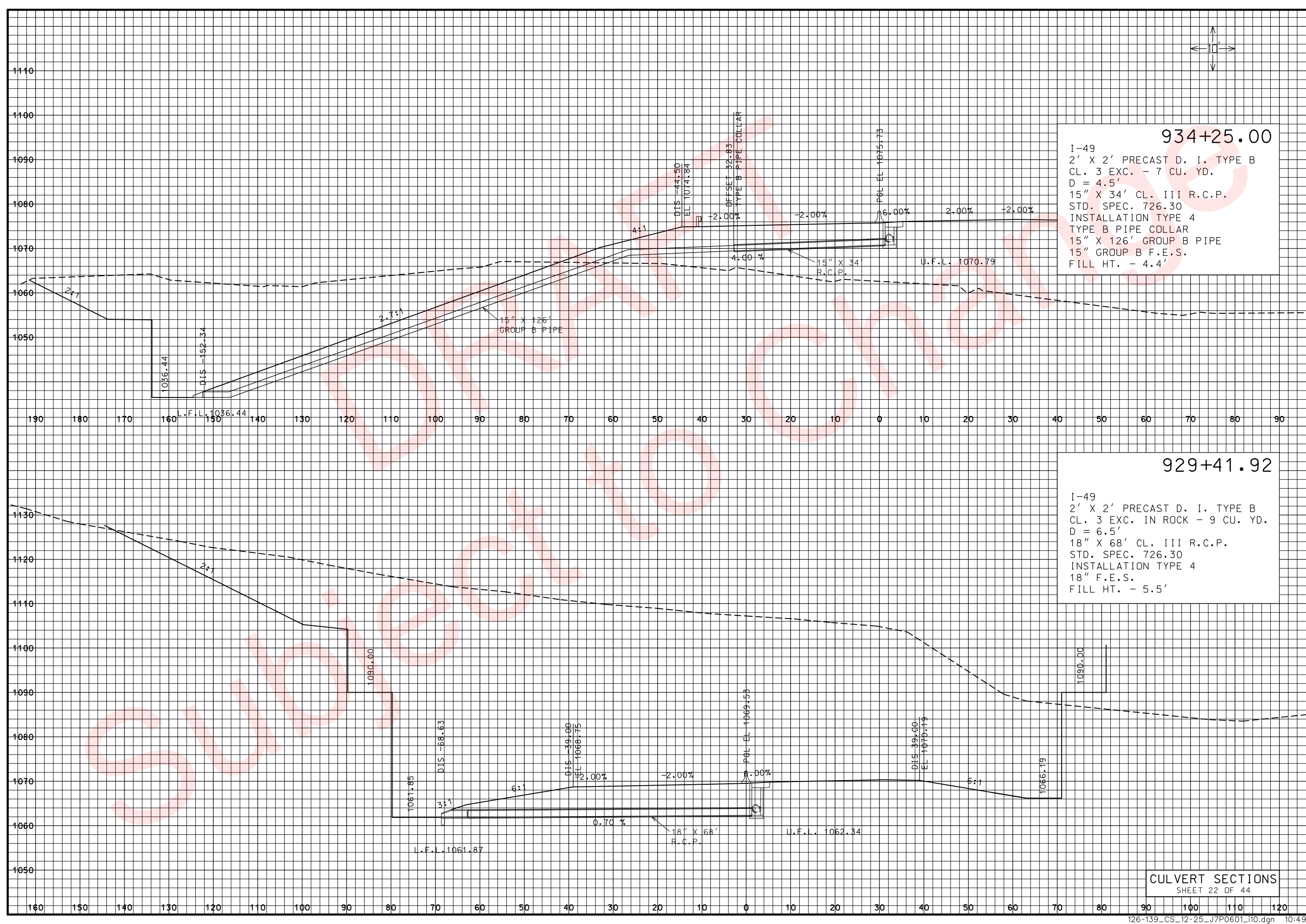


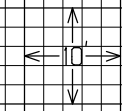
REV.

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





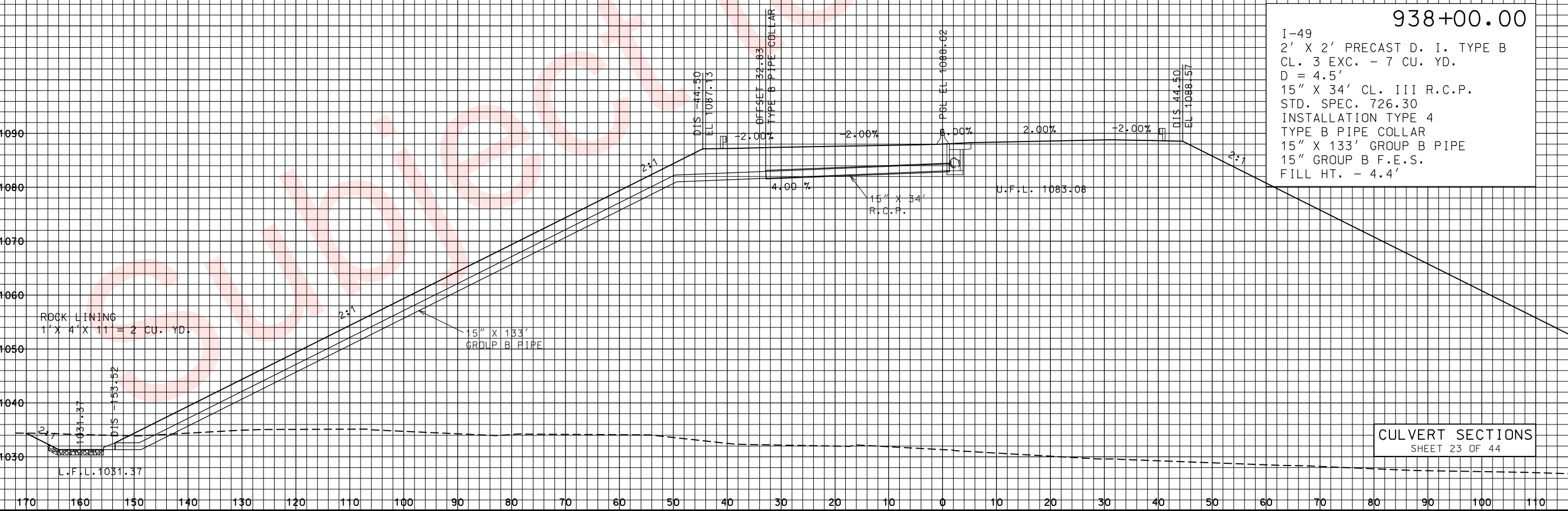
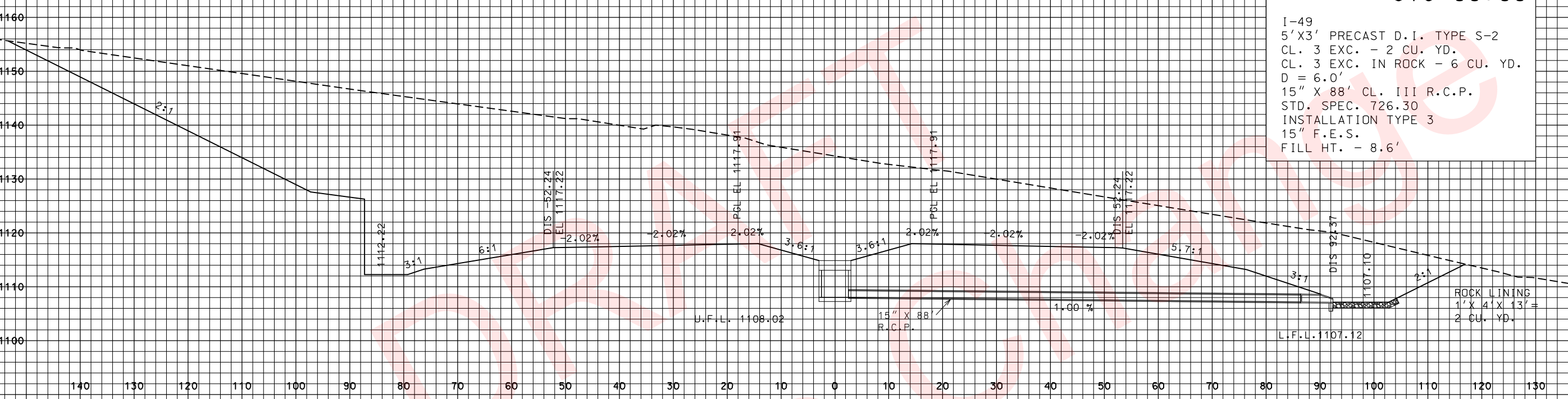
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

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'



CULVERT SECTIONS
SHEET 23 OF 44

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

DATE PREPARED
02/04/2010

ROUTE 49 STATE MO

DISTRICT 7 SHEET NO. 138

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

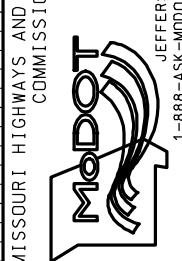
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

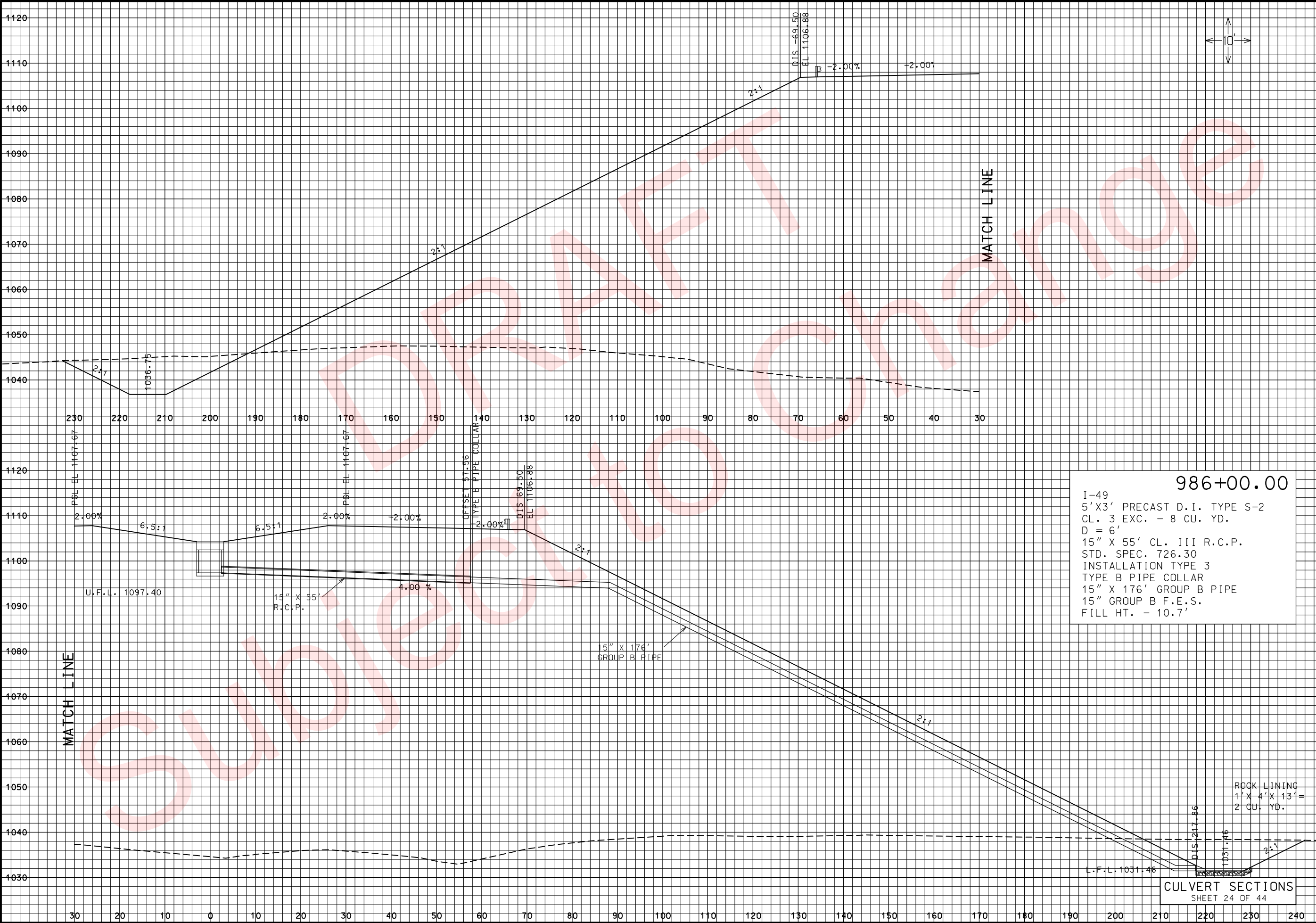
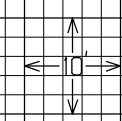
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

I-49
5'X3' PRECAST D.I. TYPE S-2
CL. 3 EXC. - 8 CU. YD.
D = 6'
15" X 55' CL. III R.C.P.
STD. SPEC. 726.30
INSTALLATION TYPE 3
TYPE B PIPE COLLAR
15" X 176' GROUP B PIPE
15" GROUP B F.E.S.
FILL HT. - 10.7'



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

CULVERT SECTIONS
SHEET 24 OF 44

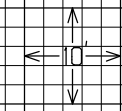


MATCH LINE

MATCH LINE

ROCK LINING
1' X 4' X 13' =
2 CU. YD.

CULVERT SECTIONS
SHEET 24 OF 44



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

DATE PREPARED
02/04/2010

ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 139

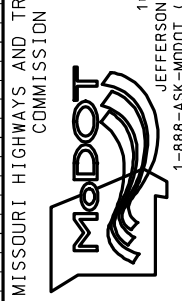
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



REV.

710+64.87

SUMNER CD. RD.
18" X 77' GROUP C PIPE
SKEW= 21° R.A.
2 - 18" GROUP C F.E.S.
FILL HT. - 2.3'

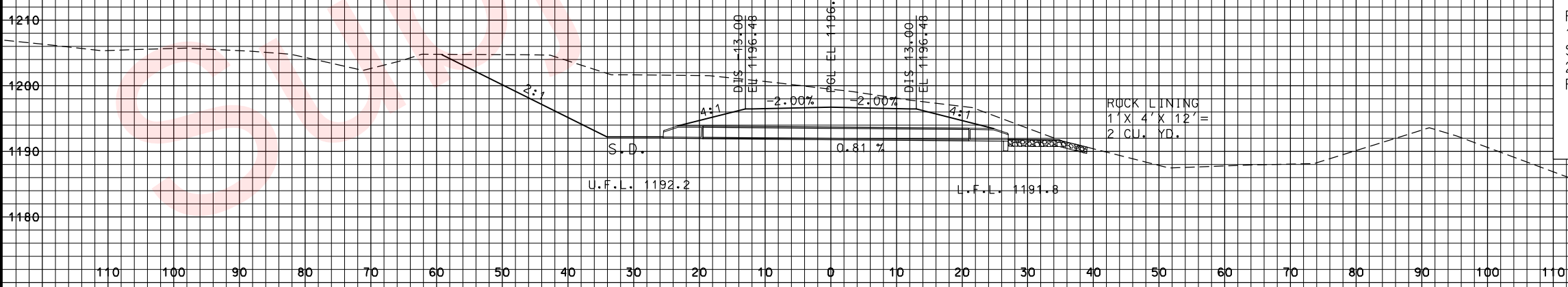
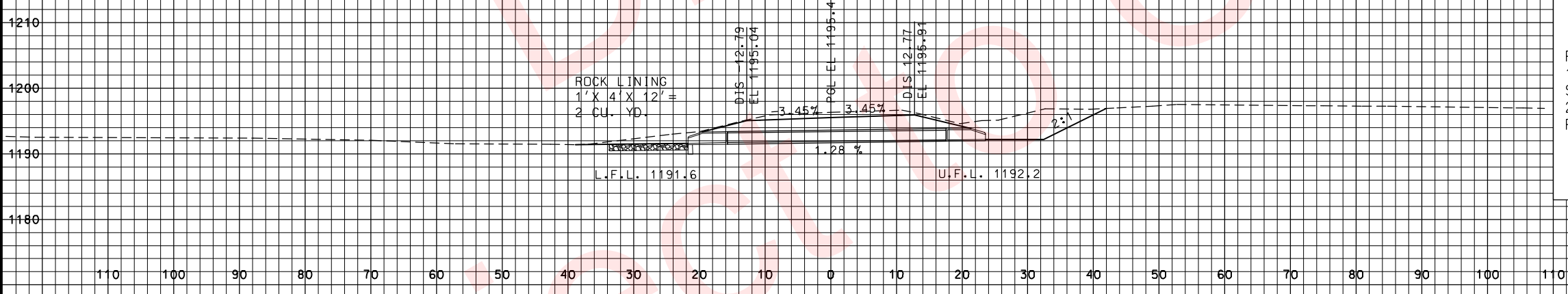
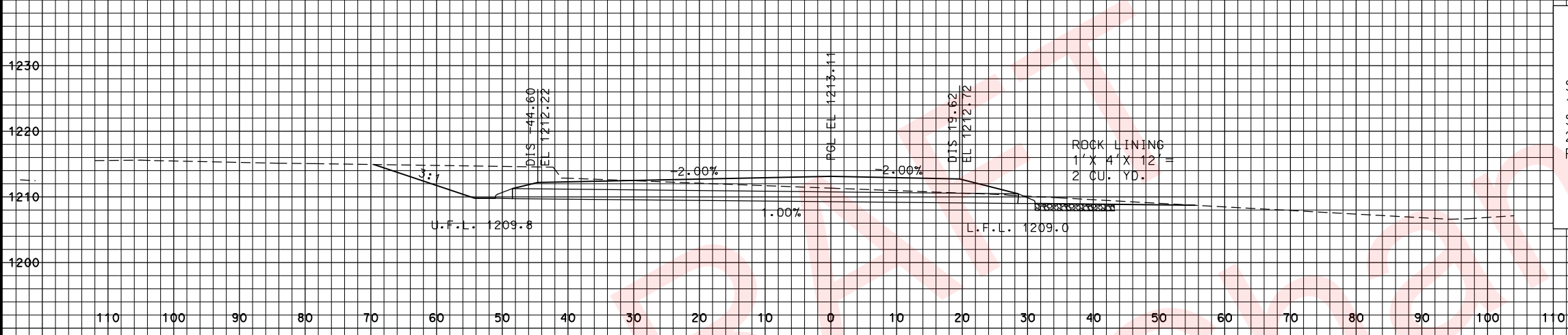
60+29.00

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



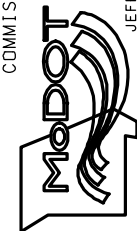
"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

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.	

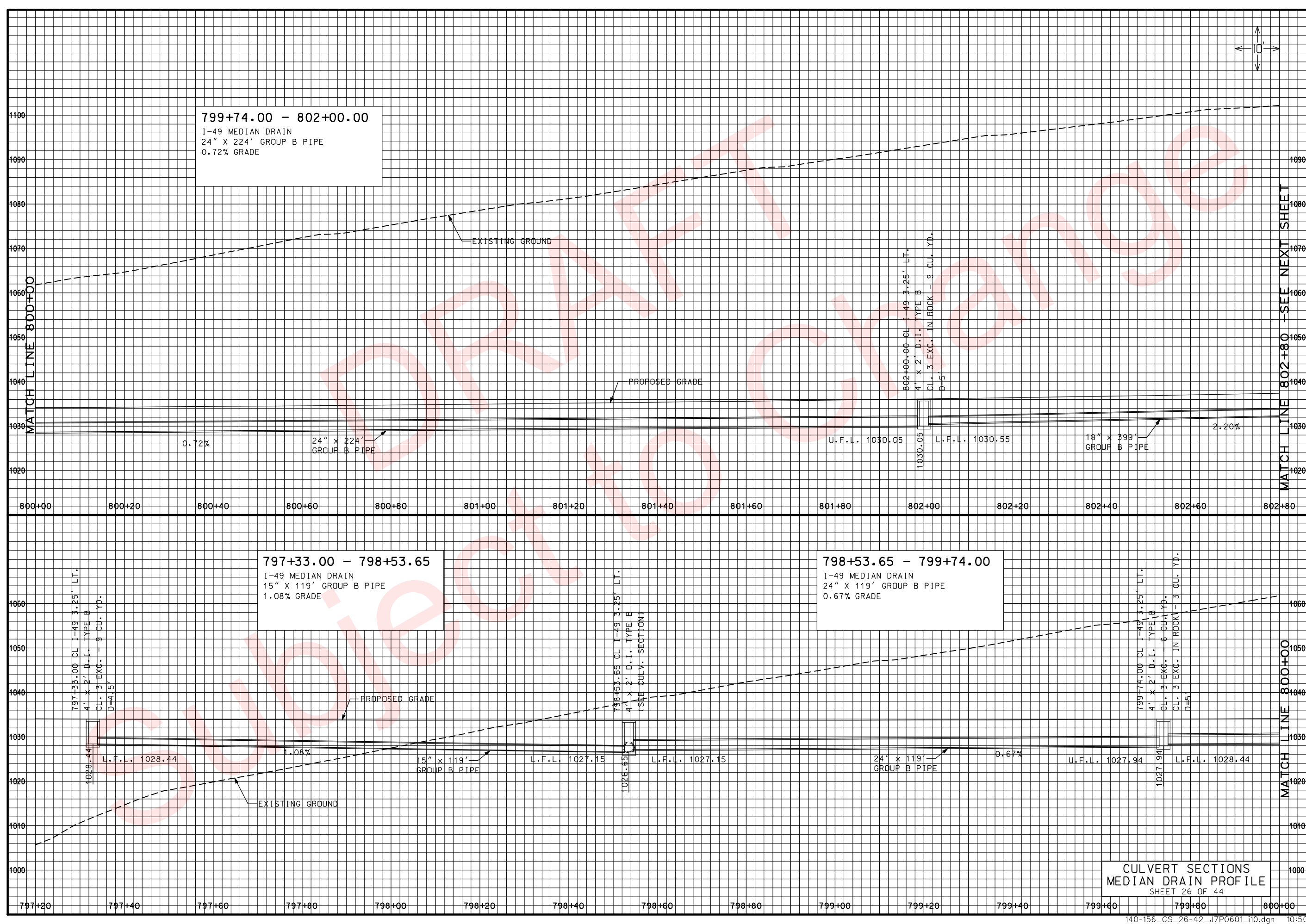
DATE	DESCRIPTION

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.



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 26 OF 44

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

DATE PREPARED
02/04/2010

ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	141

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

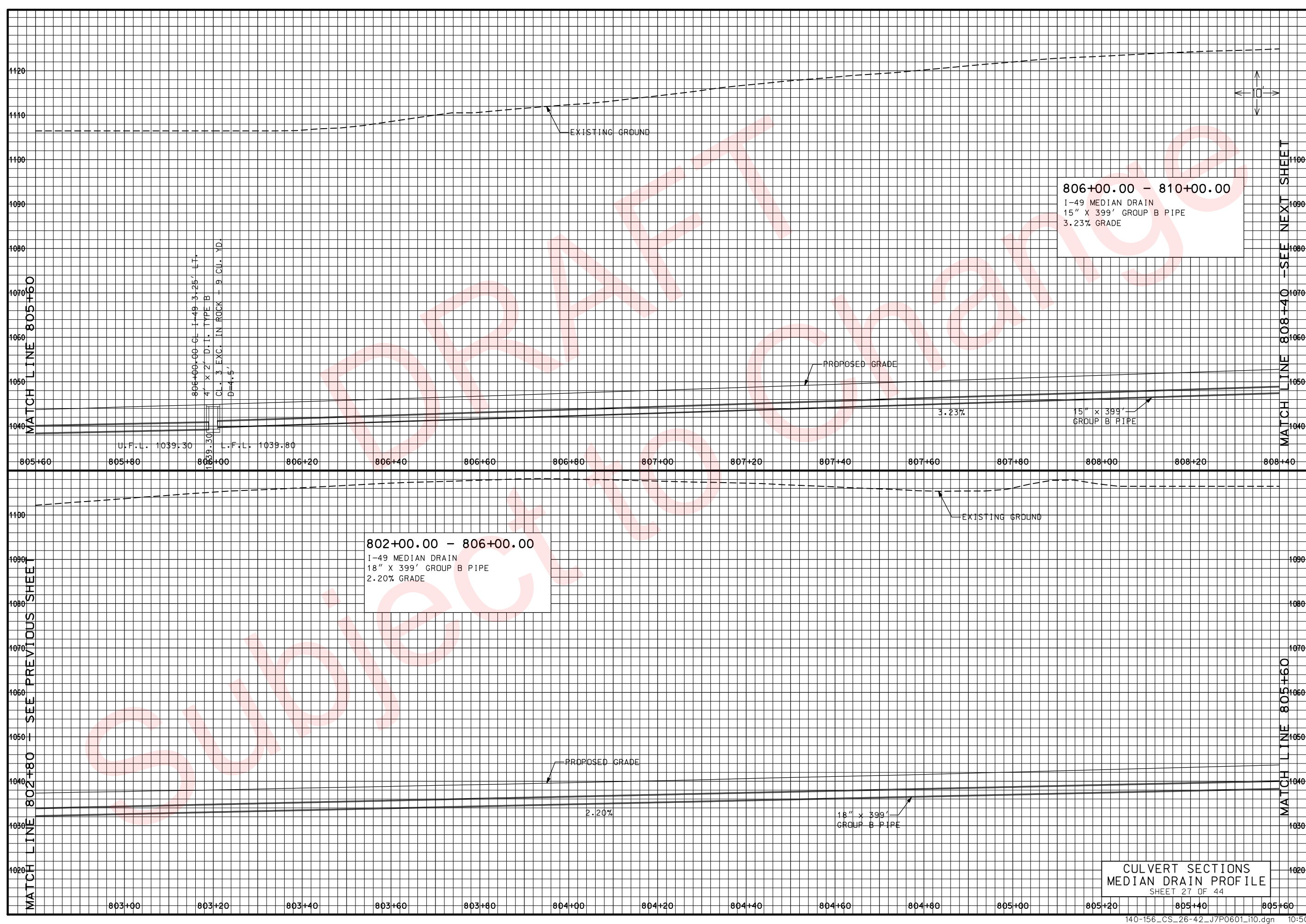
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 27 OF 44



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

DATE PREPARED
02/04/2010

ROUTE	STATE
49	MO
DISTRICT	SHEET NO.
7	142

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

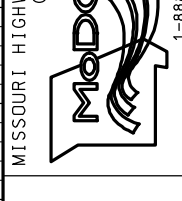
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

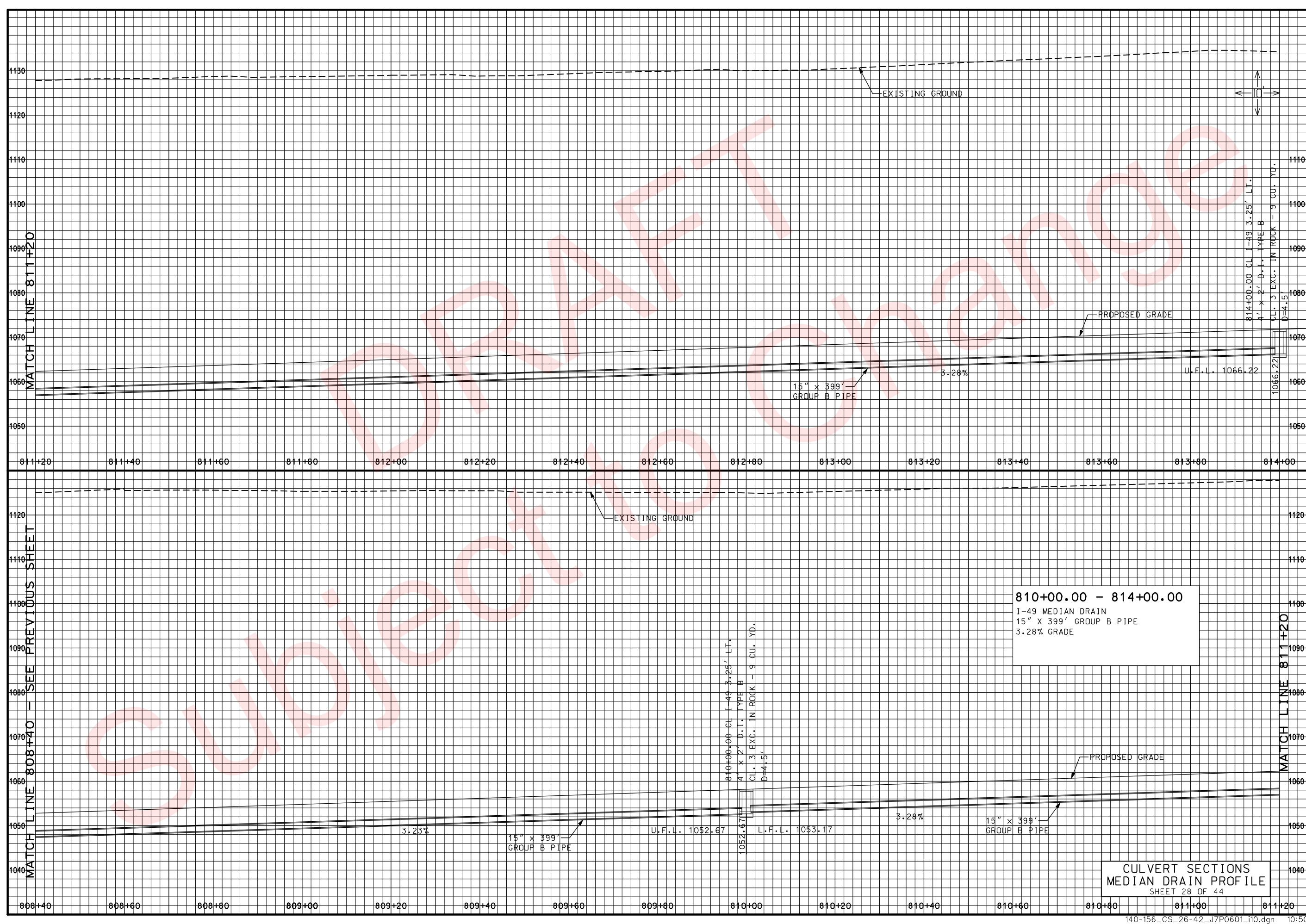
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 28 OF 44

140-156_CS_26-42_J7P0601_i10.dgn 10:50:18 AM 02/04/2010



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. 143

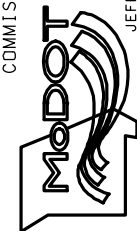
COUNTY
McDONALD
JOB NO.
J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

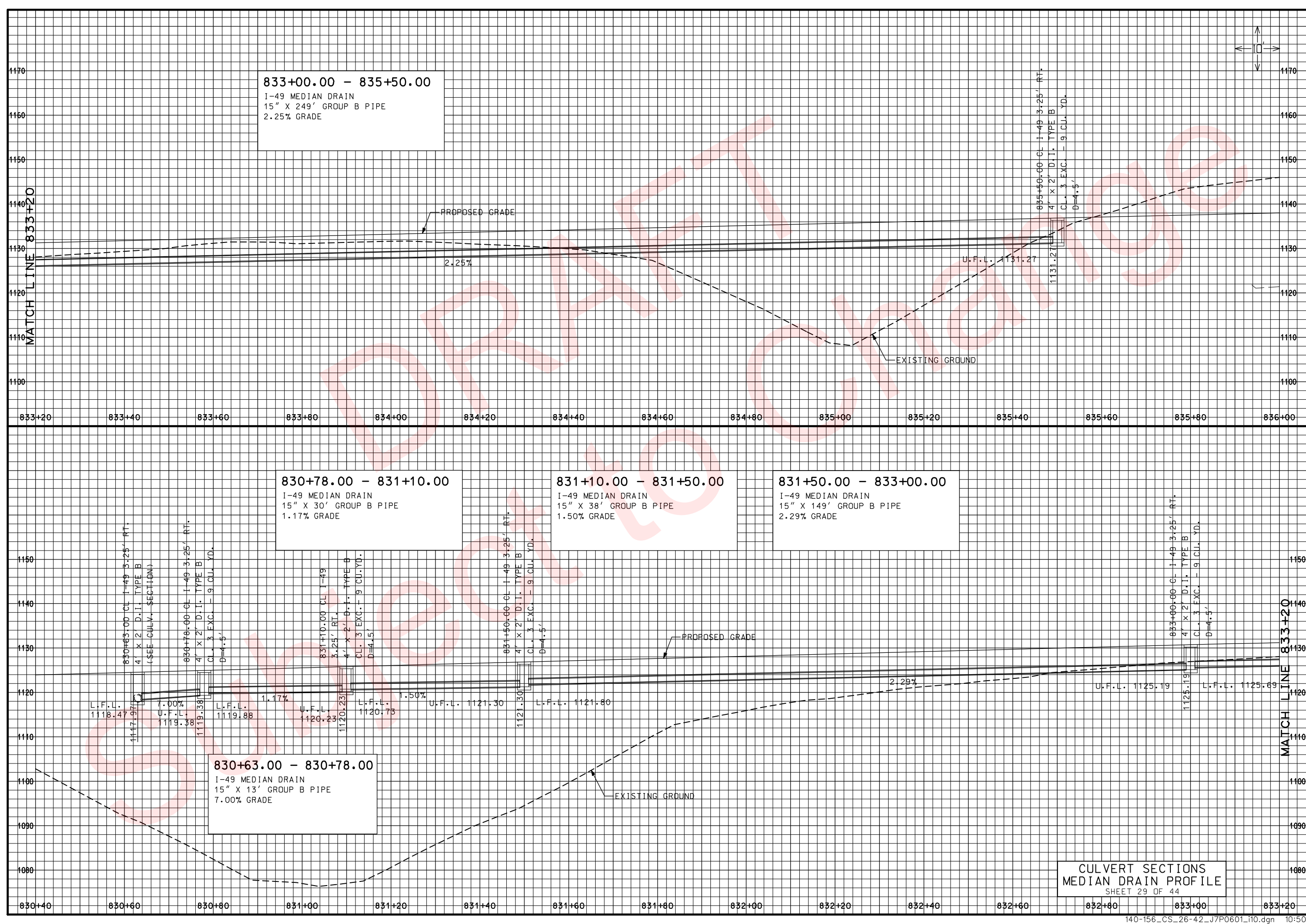
DATE	DESCRIPTION

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.



833+00.00 - 835+50.00
I-49 MEDIAN DRAIN
15" X 249' GROUP B PIPE
2.25% GRADE

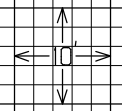
830+78.00 - 831+10.00
I-49 MEDIAN DRAIN
15" X 30' GROUP B PIPE
1.17% GRADE

831+10.00 - 831+50.00
I-49 MEDIAN DRAIN
15" X 38' GROUP B PIPE
1.50% GRADE

831+50.00 - 833+00.00
I-49 MEDIAN DRAIN
15" X 149' GROUP B PIPE
2.29% GRADE

830+63.00 - 830+78.00
I-49 MEDIAN DRAIN
15" X 13' GROUP B PIPE
7.00% GRADE

**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. 144

COUNTY McDONALD

JOB NO. J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

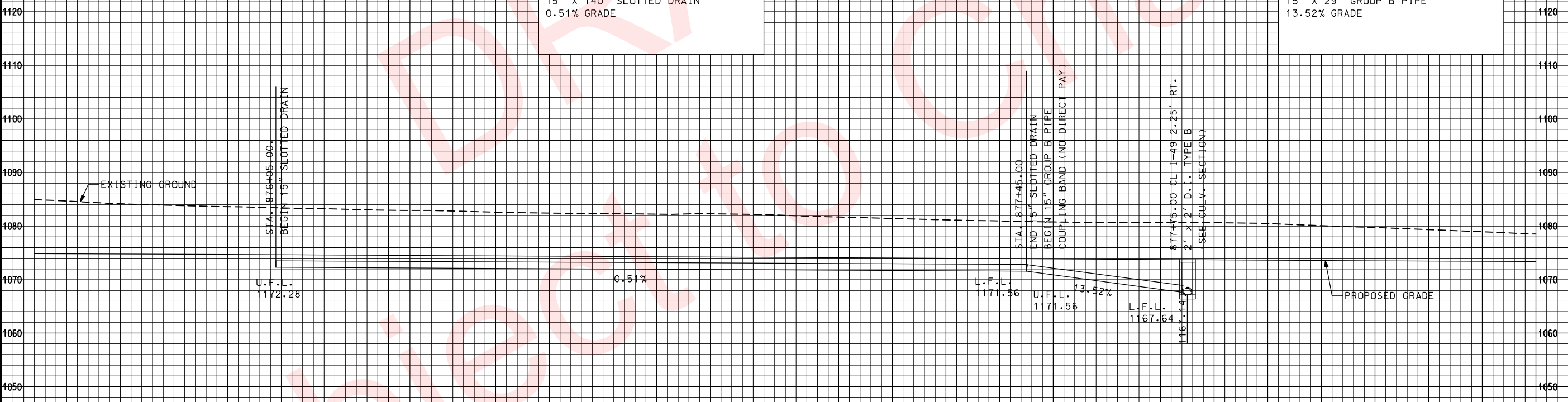
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

876+05.00 - 877+45.00
 I-49 MEDIAN DRAIN
 15" X 140' SLOTTED DRAIN
 0.51% GRADE

877+45.00 - 877+75.00
 I-49 MEDIAN DRAIN
 15" X 29' GROUP B PIPE
 13.52% GRADE



CULVERT SECTIONS
 MEDIAN DRAIN PROFILE
 SHEET 30 OF 44

875+60 875+80 876+00 876+20 876+40 876+60 876+80 877+00 877+20 877+40 877+60 877+80 878+00 878+20 878+40

882+00.00 - 883+00.00

I-49 MEDIAN DRAIN
15" X 98' GROUP B PIPE
0.95% GRADE

883+00.00 - 884+00.00

I-49 MEDIAN DRAIN
15" X 98' GROUP B PIPE
1.02% GRADE

879+25.00 - 880+50.00

I-49 MEDIAN DRAIN
15" X 123' GROUP B PIPE
0.76% GRADE

880+50.00 - 882+00.00

I-49 MEDIAN DRAIN
15" X 148' GROUP B PIPE
0.85% GRADE

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

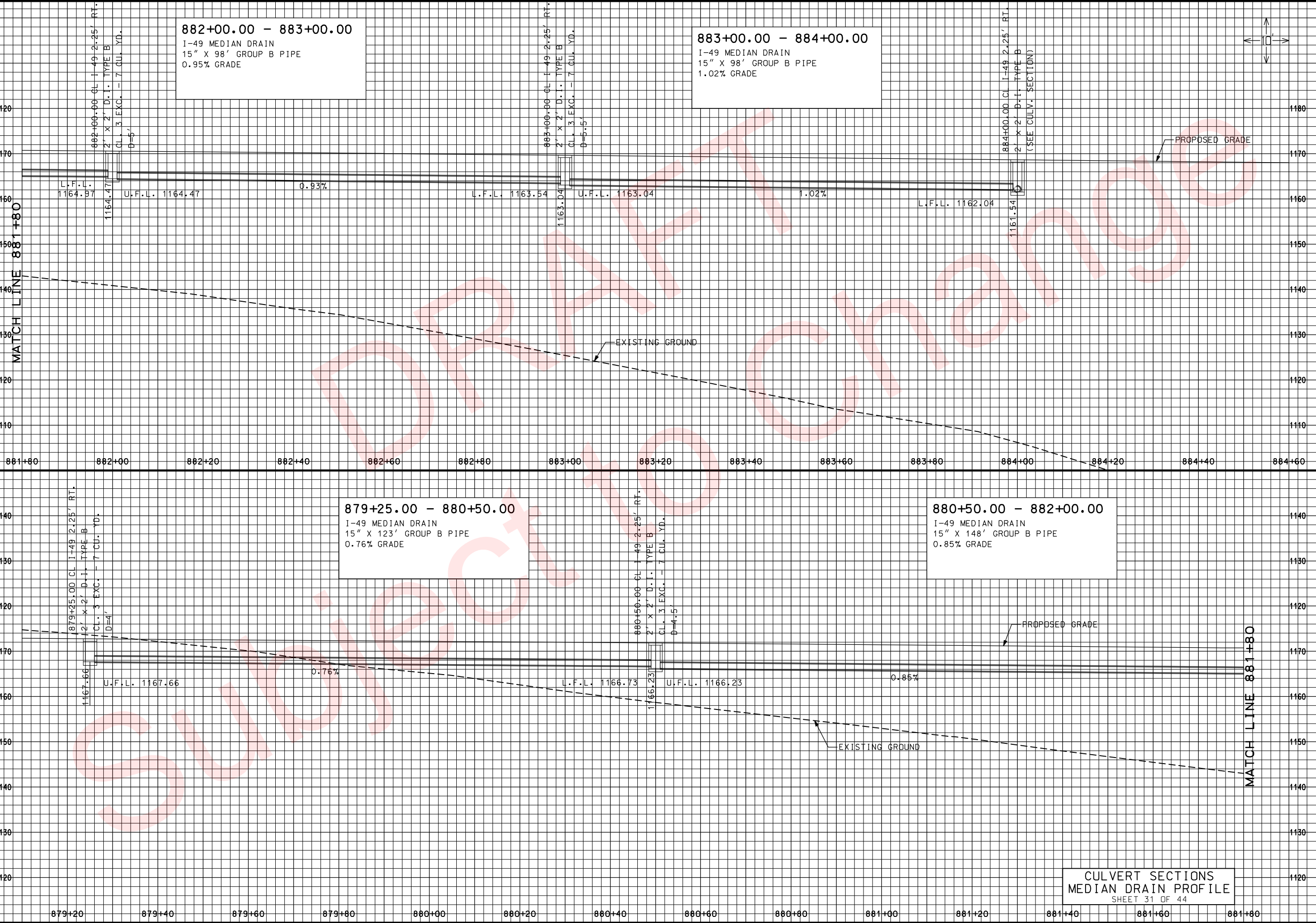
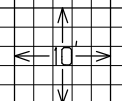
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

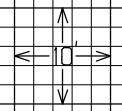
REV.

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



MATCH LINE 881+80

MATCH LINE 881+80



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

885+75.00 - 887+25.00
I-49 MEDIAN DRAIN
15" X 149' GROUP B PIPE
0.89% GRADE

887+25.00 - 889+25.00
I-49 MEDIAN DRAIN
15" X 199' GROUP B PIPE
1.08% GRADE

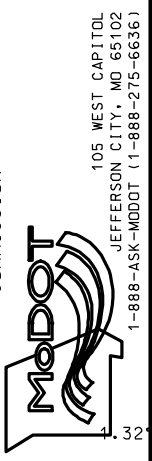
885+75.00 CL I-49 2.25' RT.
2' X 2' D.I. TYPE B
CL. 3 EXC. = 7 CU. YD.
D=4.5'

887+25.00 CL I-49 2.25' RT.
2' X 2' D.I. TYPE B
CL. 3 EXC. = 7 CU. YD.
D=4.5'



MATCH LINE 888+30 - SEE NEXT SHEET

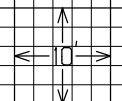
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



DATE PREPARED		02/04/2010	
ROUTE	STATE	49	MO
DISTRICT	SHEET NO.	7	146
COUNTY			
McDONALD			
JOB NO.			
J7P0601			
CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			

CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 32 OF 44

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. 147

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)



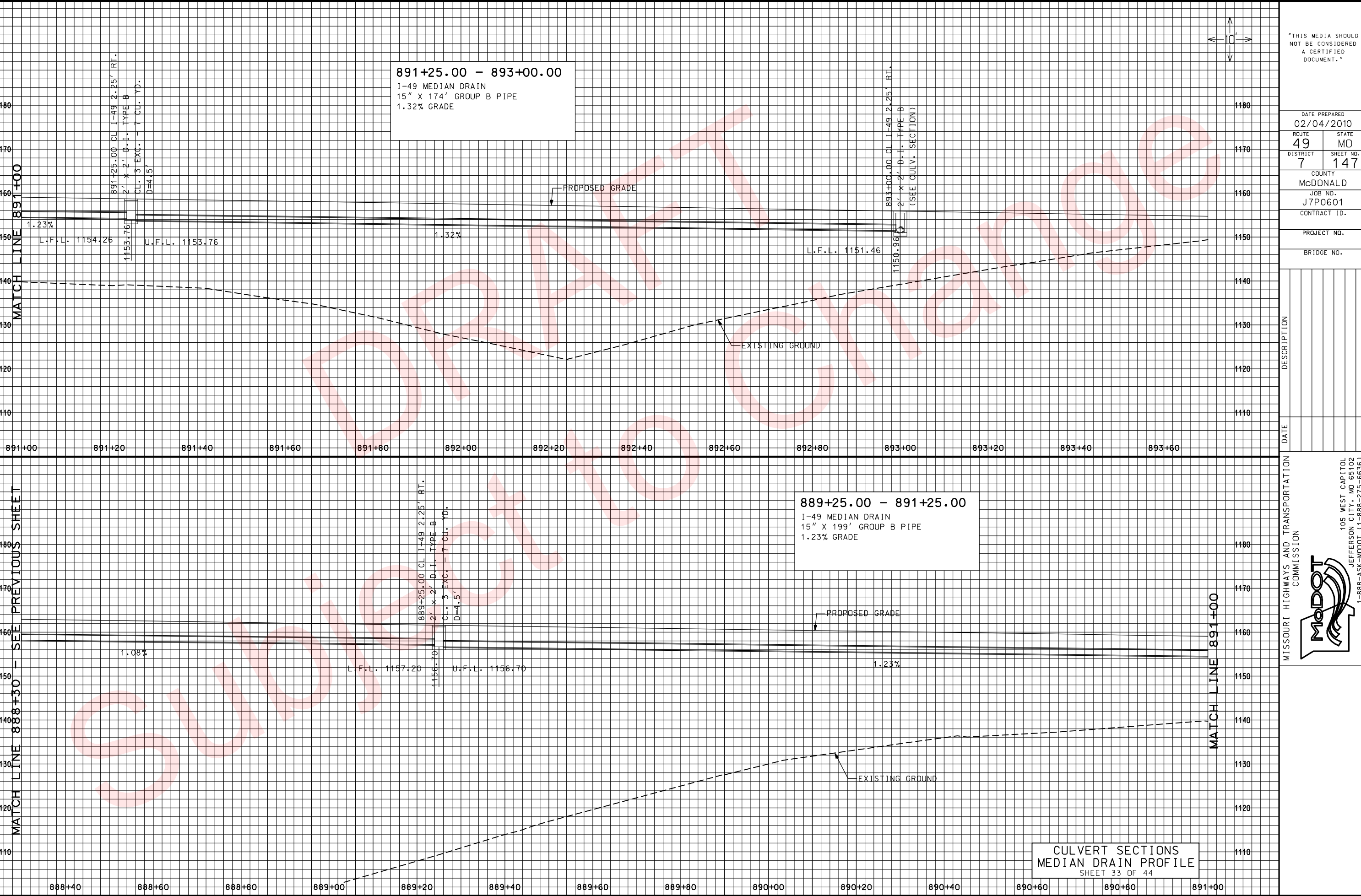
REV.

891+25.00 - 893+00.00
I-49 MEDIAN DRAIN
15" X 174' GROUP B PIPE
1.32% GRADE

891+00.00 CL I-49 2.25' RT.
2' X 2' D.I.I. TYPE B
CL. 3' EXC. - 1 CU. YD.
D=4.15'

889+25.00 - 891+25.00
I-49 MEDIAN DRAIN
15" X 199' GROUP B PIPE
1.23% GRADE

889+25.00 CL I-49 2.25' RT.
2' X 2' D.I.I. TYPE B
CL. 3' EXC. - 7 CU. YD.
D=4.15'



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 33 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.

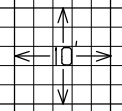
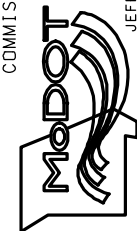
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



897+50.00 - 899+00.00
I-49 MEDIAN DRAIN
15" X 148' GROUP B PIPE
1.72% GRADE

897+50.00 CL I-49 2'-25' RT.
2' X 2' D.I. TYPE B
CL 3 EXC. - 7 CUL. YD.
D=4.5'
1142.79

899+00.00 CL I-49 2'-25' RT.
2' X 2' D.I. TYPE B
(SEE CULV. SECTION)
1139.75

U.F.L. 1142.79

L.F.L. 1140.25

PROPOSED GRADE

1.72%

EXISTING GROUND

897+00 897+20 897+40 897+60 897+80 898+00 898+20 898+40 898+60 898+80 899+00 899+20 899+40

894+50.00 - 896+00.00
I-49 MEDIAN DRAIN
15" X 148' GROUP B PIPE
1.50% GRADE

894+50.00 CL I-49 2'-25' RT.
2' X 2' D.I. TYPE B
CL 3 EXC. - 7 CUL. YD.
D=4.5'
1148.39

896+00.00 CL I-49 2'-25' RT.
2' X 2' D.I. TYPE B
(SEE CULV. SECTION)
1145.67

U.F.L. 1148.39

L.F.L. 1146.17

PROPOSED GRADE

1.50%

EXISTING GROUND

894+00 894+20 894+40 894+60 894+80 895+00 895+20 895+40 895+60 895+80 896+00 896+20 896+40

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. 149

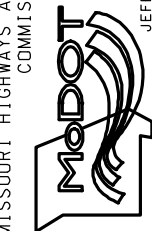
COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

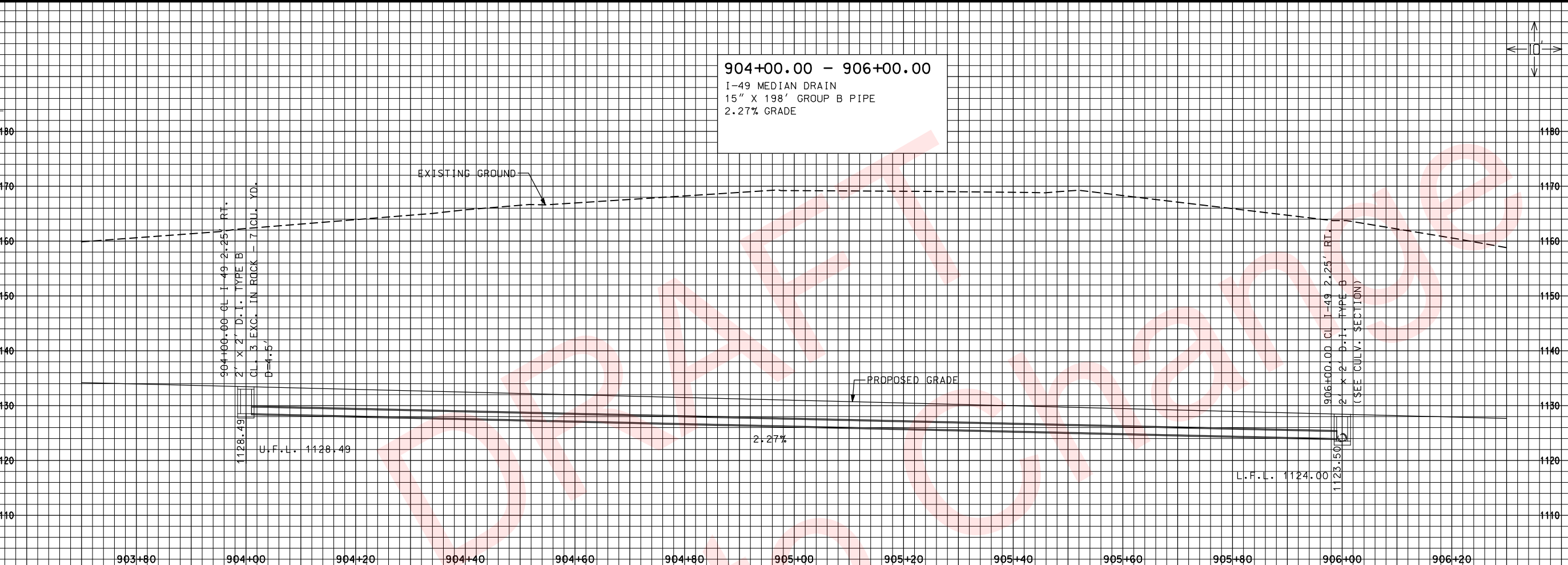
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

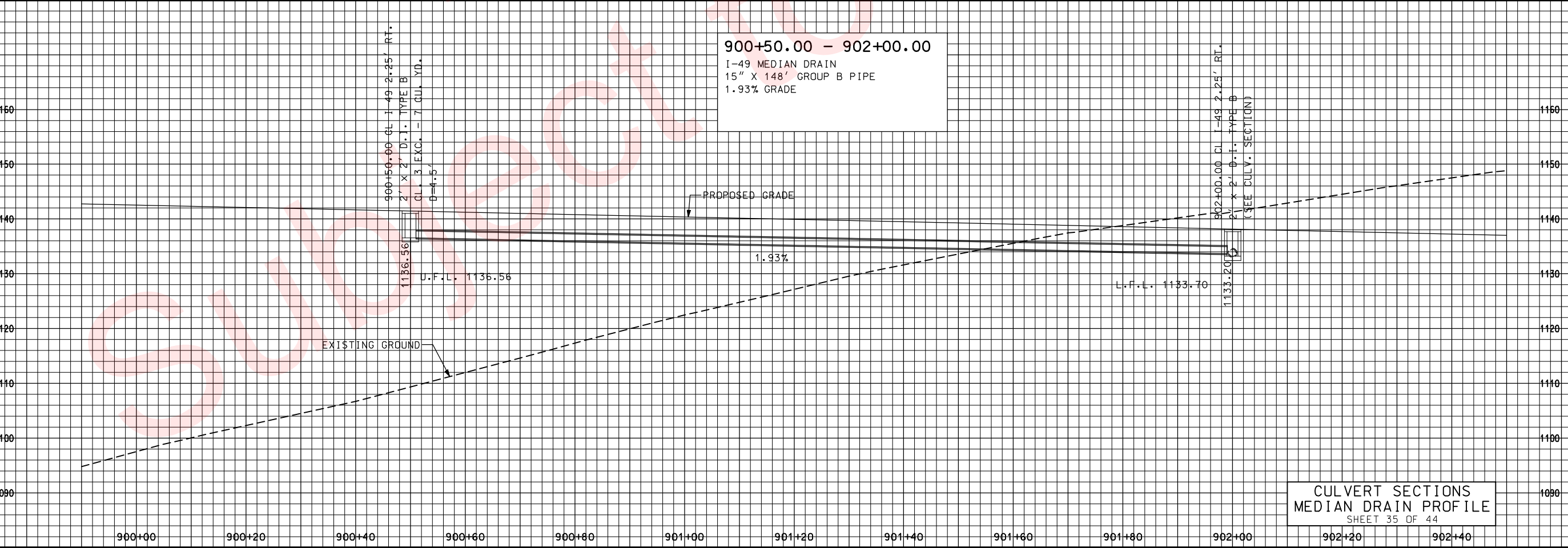


IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

904+00.00 - 906+00.00
I-49 MEDIAN DRAIN
15" X 198' GROUP B PIPE
2.27% GRADE



900+50.00 - 902+00.00
I-49 MEDIAN DRAIN
15" X 148' GROUP B PIPE
1.93% GRADE

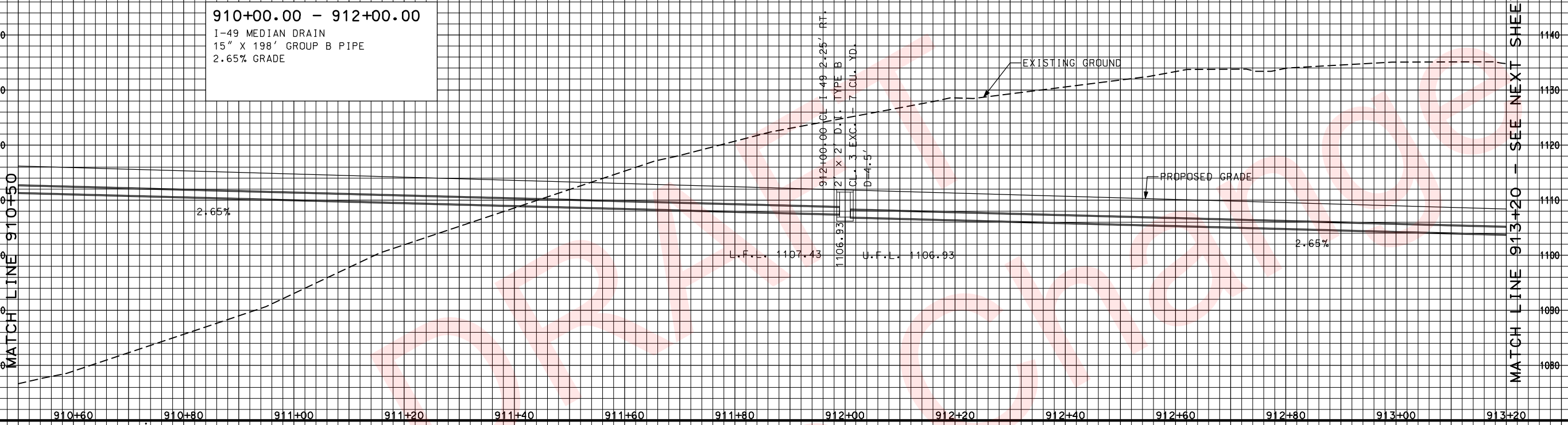


CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 35 OF 44

910+00.00 - 912+00.00
I-49 MEDIAN DRAIN
15" X 198' GROUP B PIPE
2.65% GRADE

912+00.00 CL I-49 2+25' RT.
2' X 2' D.I. TYPE B
CL. 3 EXC. 1 - 7 CU. YD.
D=4.5'

L.F.L. 1107.43 U.F.L. 1106.93



MATCH LINE 910+50 910+60 910+80 911+00 911+20 911+40 911+60 911+80 912+00 912+20 912+40 912+60 912+80 913+00 913+20 MATCH LINE 913+20 - SEE NEXT SHEET

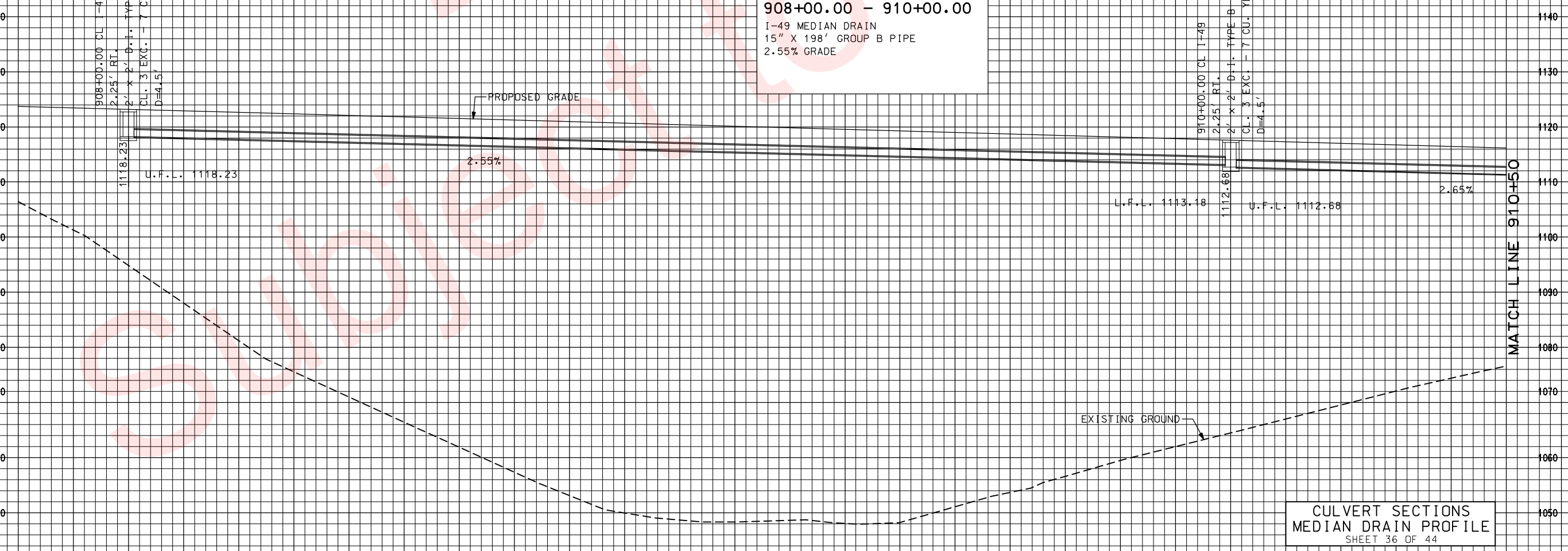
908+00.00 - 910+00.00
I-49 MEDIAN DRAIN
15" X 198' GROUP B PIPE
2.55% GRADE

908+00.00 CL I-49
2.25' RT.
2' X 2' D.I. TYPE B
CL. 3 EXC. 1 - 7 CU. YD.
D=4.5'

910+00.00 CL I-49
2.25' RT.
2' X 2' D.I. TYPE B
CL. 3 EXC. 1 - 7 CU. YD.
D=4.5'

U.F.L. 1118.23

L.F.L. 1113.18 U.F.L. 1112.58



907+80 908+00 908+20 908+40 908+60 908+80 909+00 909+20 909+40 909+60 909+80 910+00 910+20 910+40 MATCH LINE 910+50

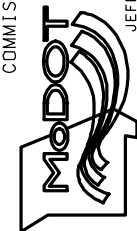
**CULVERT SECTIONS
MEDIAN DRAIN PROFILE**
SHEET 36 OF 44

"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

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	STATE
49	MO
DISTRICT	SHEET NO.
7	151

COUNTY
MCDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

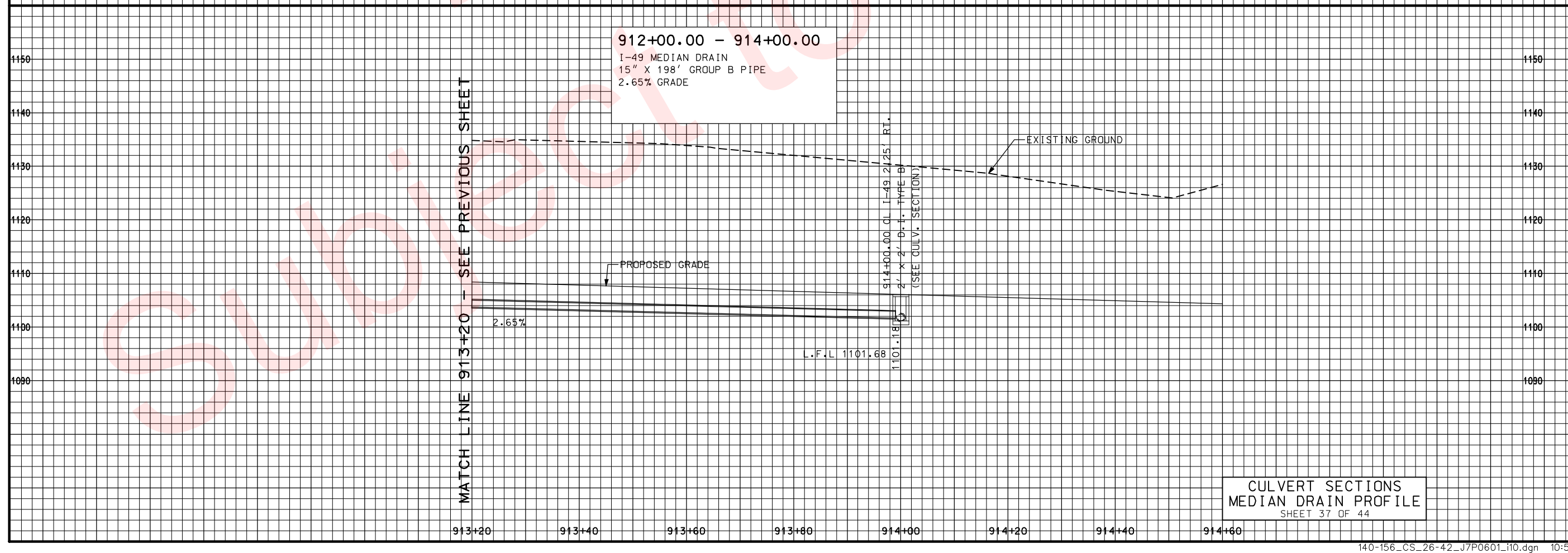
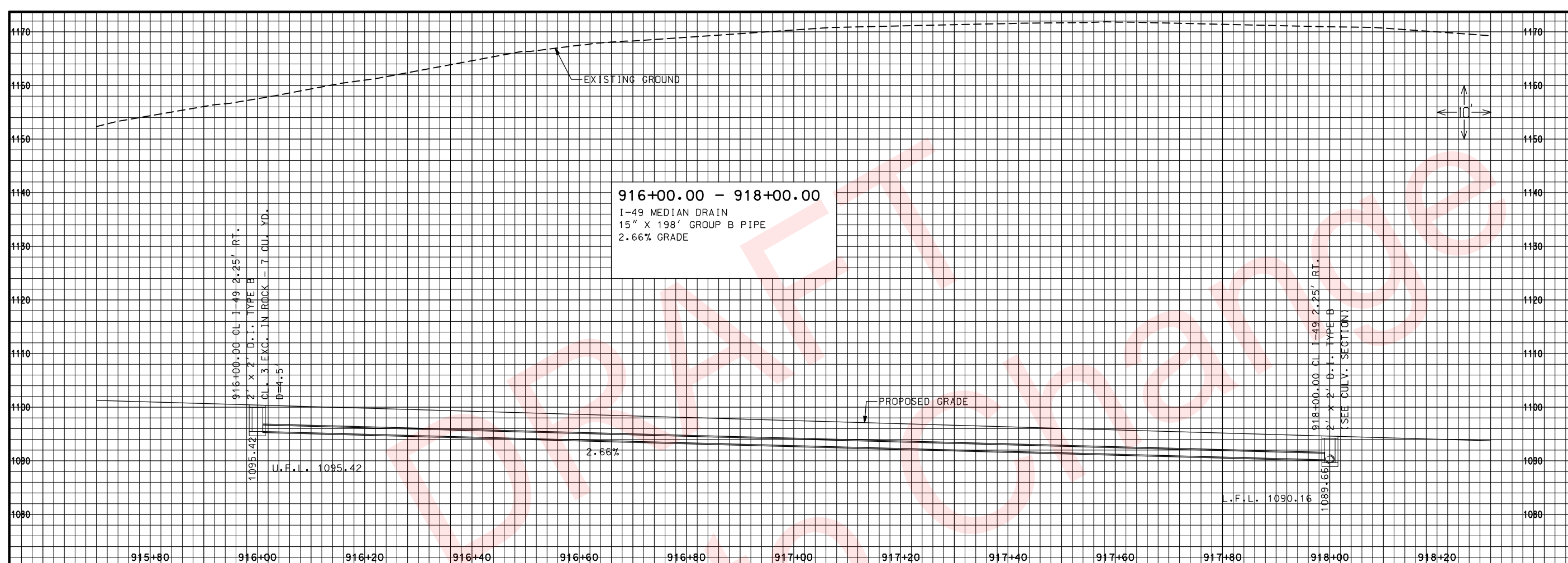
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

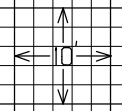


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 37 OF 44



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

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.

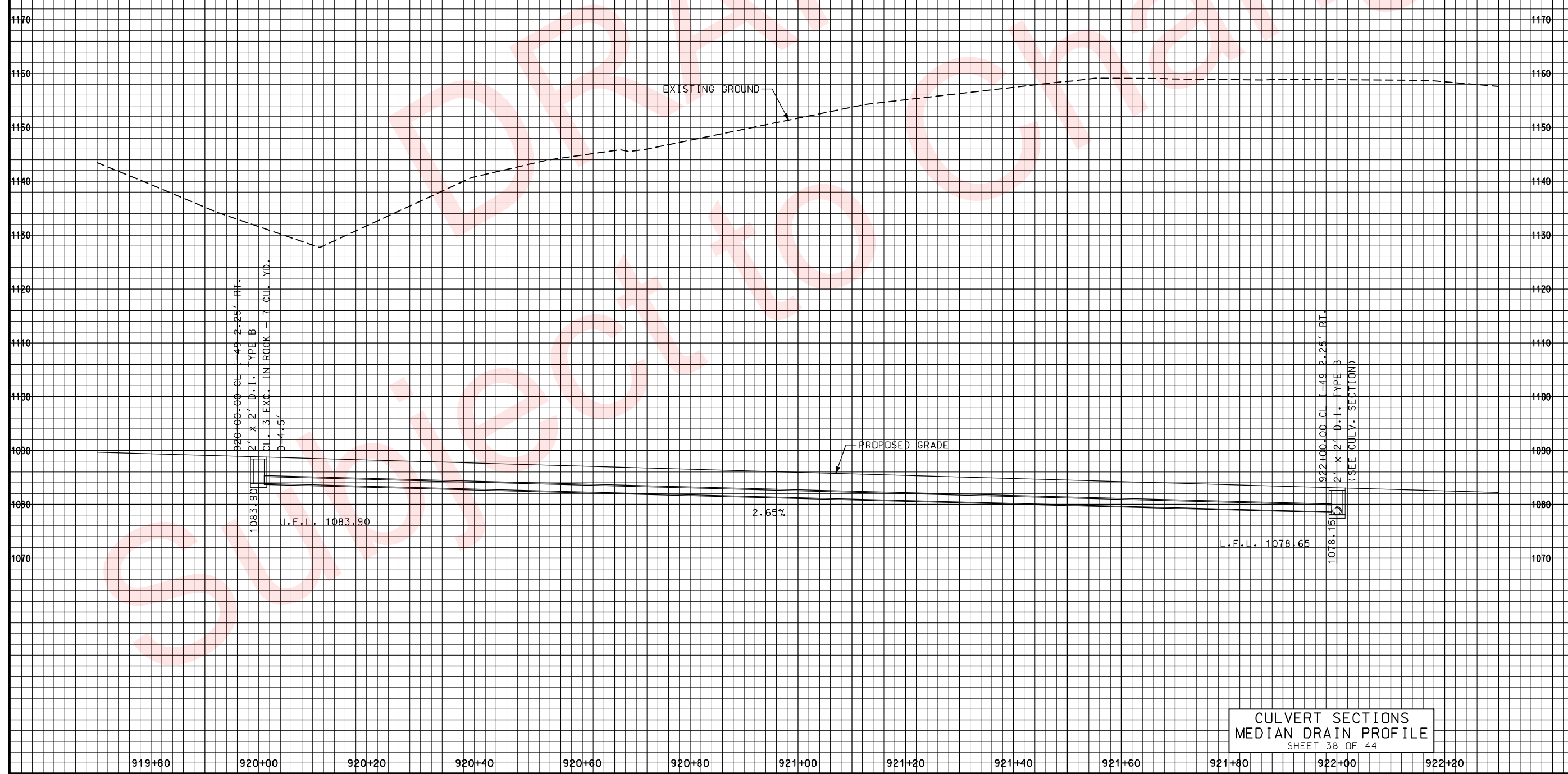
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

920+00.00 - 922+00.00
I-49 MEDIAN DRAIN
15" X 198' GROUP B PIPE
2.65% GRADE



920+00.00 CL I-49 2'-25' RT.
2' X 2' D.I. TYPE B
CL. 3 EXC. TIN ROCK - 7 CU. YD.
D=4.5'

922+00.00 CL I-49 2'-25' RT.
2' X 2' D.I. TYPE B
(SEE CULV. SECTION)

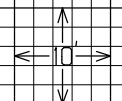
J.F.L. 1083.90

2.65%

L.F.L. 1078.65

CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 38 OF 44

919+80 920+00 920+20 920+40 920+60 920+80 921+00 921+20 921+40 921+60 921+80 922+00 922+80



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

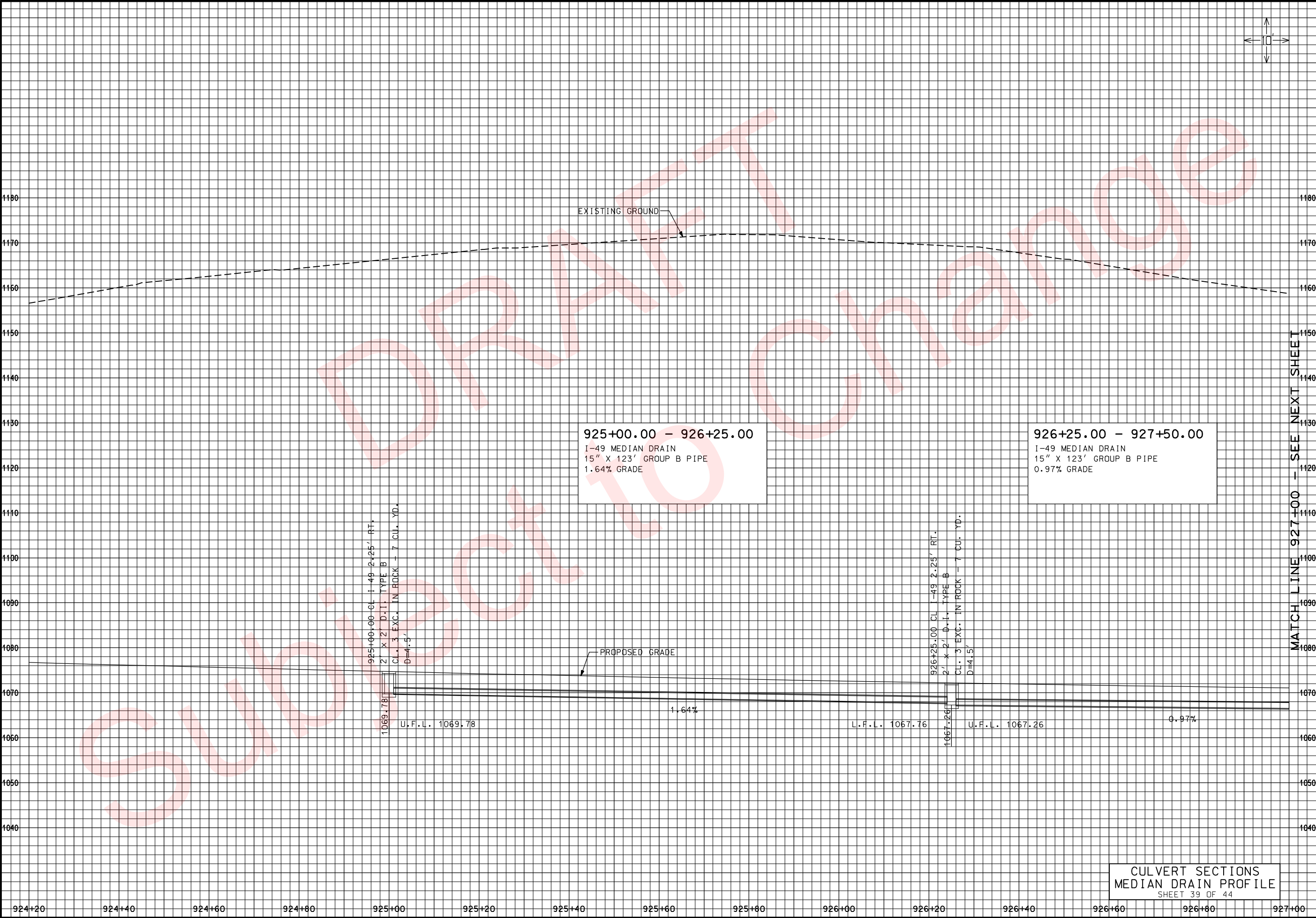
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ROUTE 49	STATE MO
DISTRICT 7	SHEET NO. 153
COUNTY McDONALD	
JOB NO. J7P0601	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

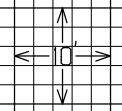
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



MATCH LINE 927+00 - SEE NEXT SHEET

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. 154

COUNTY
McDONALD

JOB NO.
J7P0601

CONTRACT ID.

PROJECT NO.

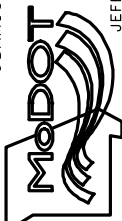
BRIDGE NO.

DESCRIPTION

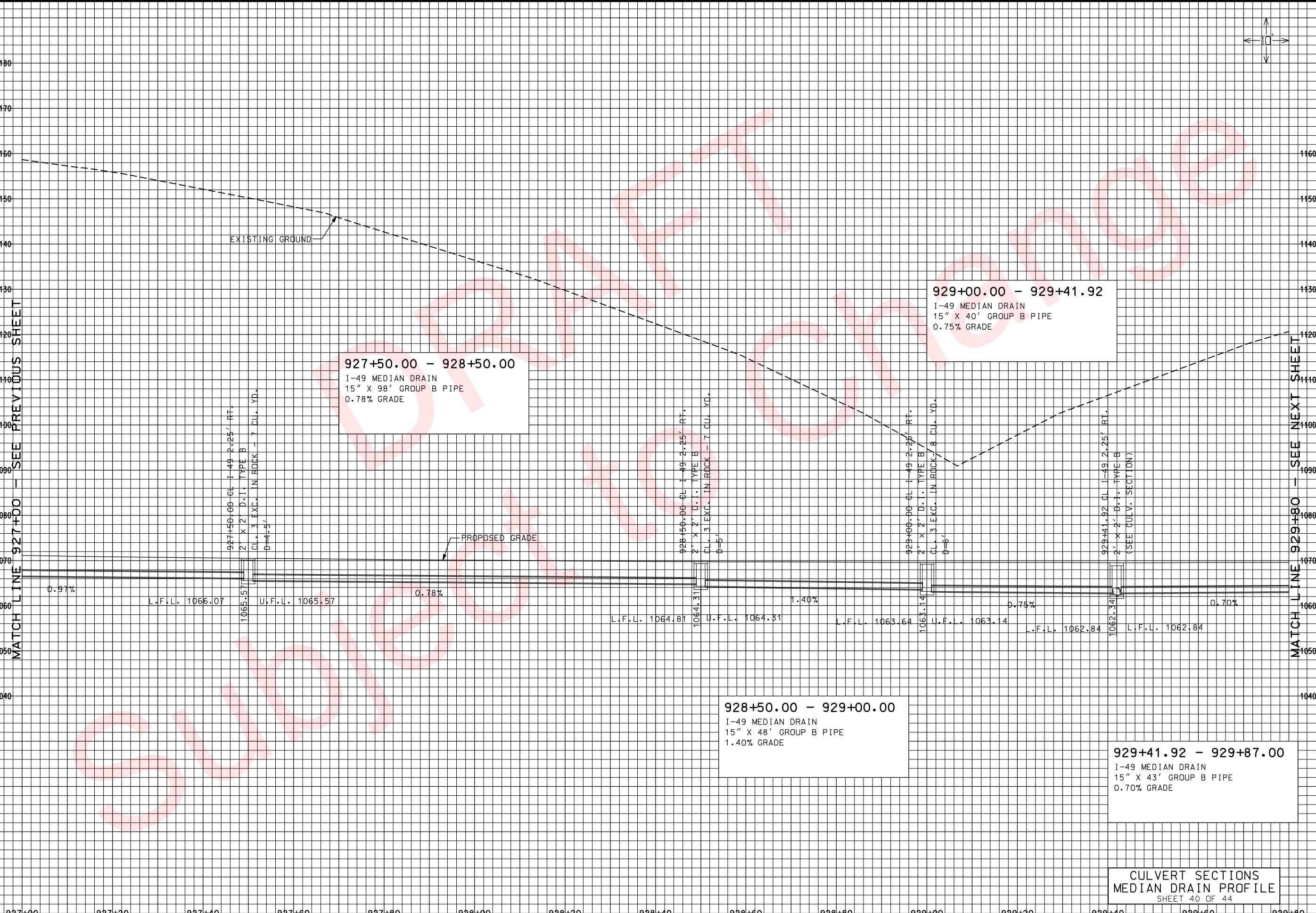
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



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



MATCH LINE 927+00 - SEE PREVIOUS SHEET

MATCH LINE 929+80 - SEE NEXT SHEET

927+50.00 - 928+50.00
I-49 MEDIAN DRAIN
15" X 98' GROUP B PIPE
0.78% GRADE

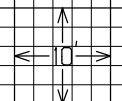
929+00.00 - 929+41.92
I-49 MEDIAN DRAIN
15" X 40' GROUP B PIPE
0.75% GRADE

928+50.00 - 929+00.00
I-49 MEDIAN DRAIN
15" X 48' GROUP B PIPE
1.40% GRADE

929+41.92 - 929+87.00
I-49 MEDIAN DRAIN
15" X 43' GROUP B PIPE
0.70% GRADE

**CULVERT SECTIONS
MEDIAN DRAIN PROFILE
SHEET 40 OF 44**

927+00 927+20 927+40 927+60 927+80 928+00 928+20 928+40 928+60 928+80 929+00 929+20 929+40 929+60 929+80



"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.

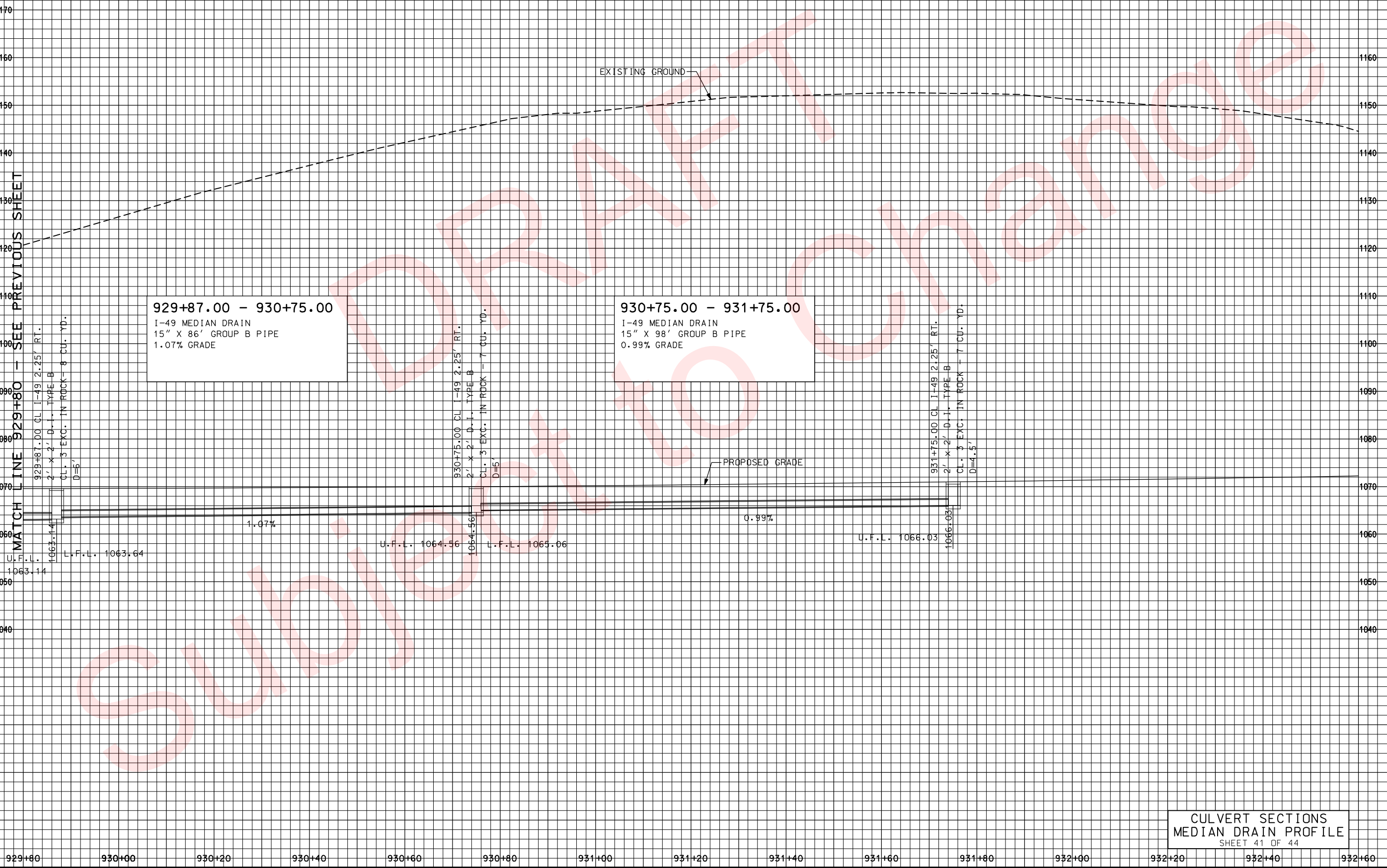
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



MATCH LINE 929+80 - SEE PREVIOUS SHEET

929+87.00 - 930+75.00
 I-49 MEDIAN DRAIN
 15" X 86' GROUP B PIPE
 1.07% GRADE

930+75.00 CL I-49 2.25' RT.
 2' X 2' D.I., TYPE B
 CL. 3' EXC. IN ROCK - 7 CU. YD.
 D=5'

930+75.00 - 931+75.00
 I-49 MEDIAN DRAIN
 15" X 98' GROUP B PIPE
 0.99% GRADE

931+75.00 CL I-49 2.25' RT.
 2' X 2' D.I., TYPE B
 CL. 3' EXC. IN ROCK - 7 CU. YD.
 D=4.5'

**CULVERT SECTIONS
 MEDIAN DRAIN PROFILE**
 SHEET 41 OF 44

929+80 930+00 930+20 930+40 930+60 930+80 931+00 931+20 931+40 931+60 931+80 932+00 932+20 932+40 932+60

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DATE PREPARED
02/04/2010

ROUTE 49 STATE MO
DISTRICT 7 SHEET NO. 156

COUNTY McDONALD
JOB NO. J7P0601
CONTRACT ID.

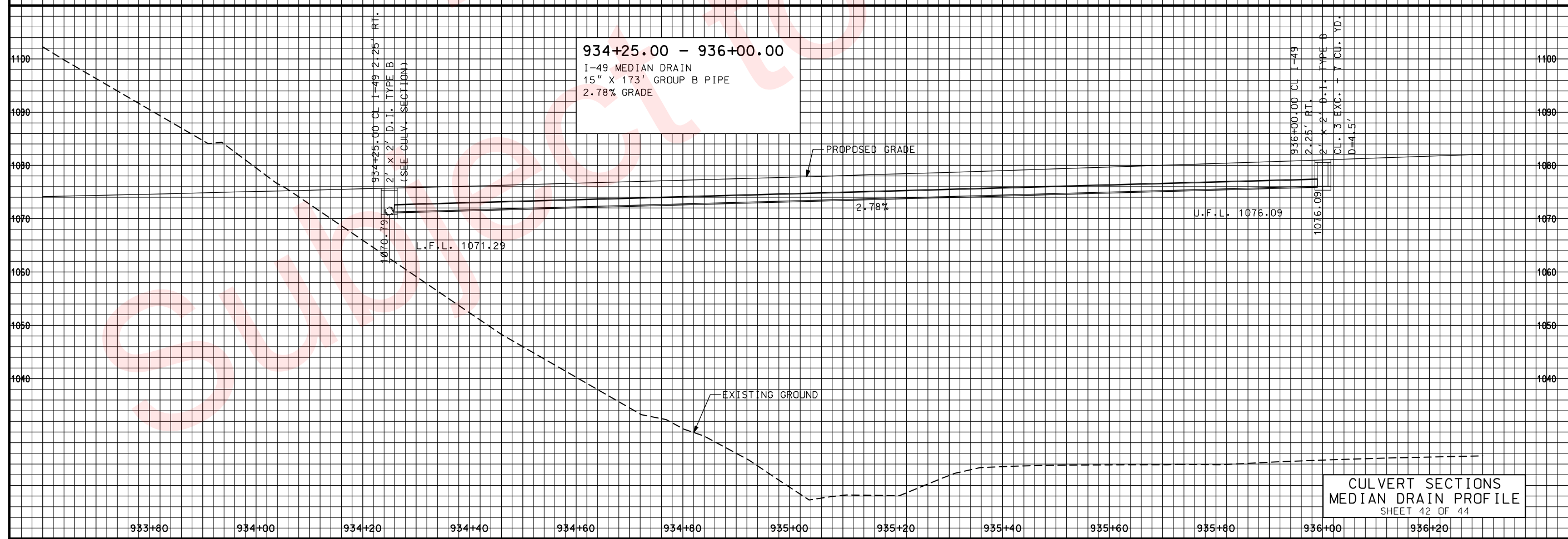
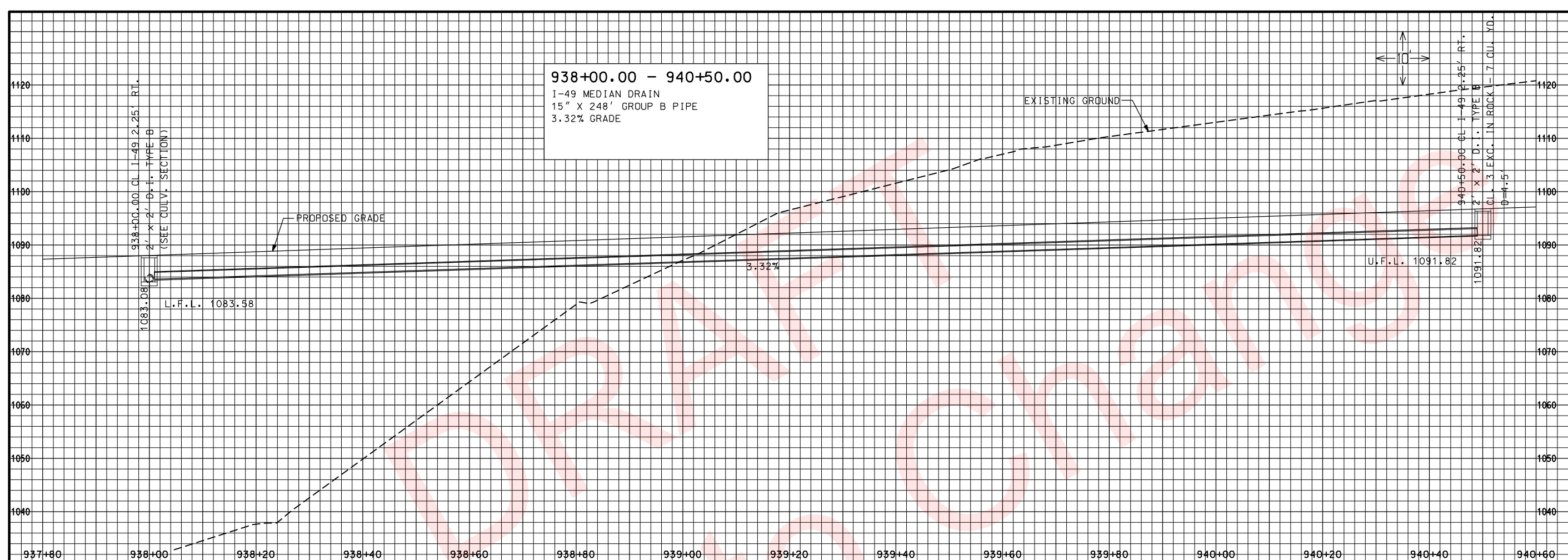
PROJECT NO.
BRIDGE NO.

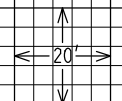
DATE	DESCRIPTION

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 42 OF 44





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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

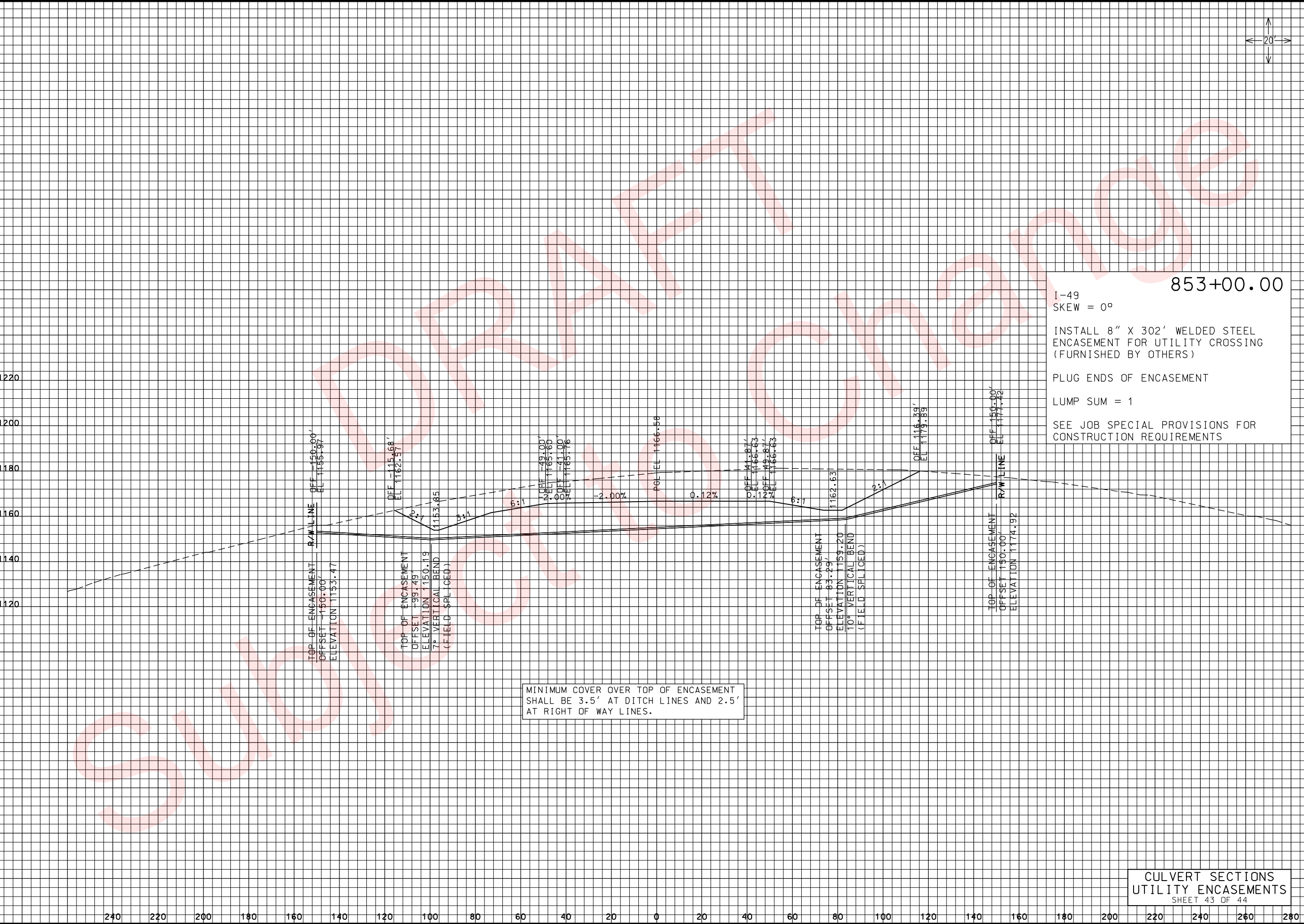
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



REV.

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
SHEET 43 OF 44

240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280

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

DATE PREPARED

02/04/2010

ROUTE STATE

49 MO

DISTRICT SHEET NO.

7 158

COUNTY

McDONALD

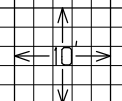
JOB NO.

J7P0601

CONTRACT ID.

PROJECT NO.

BRIDGE NO.



RTE. 90
SKEW = 0°

60+75.00

INSTALL 8" X 60' WELDED STEEL ENCASUREMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

PLUG ENDS OF ENCASUREMENT

LUMP SUM = 1

SEE JOB SPECIAL PROVISIONS FOR CONSTRUCTION REQUIREMENTS

DATE	DESCRIPTION

DATE

DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



REV.

RTE. 90
SKEW = 0°

43+50.00

INSTALL 8" X 60' WELDED STEEL ENCASUREMENT FOR UTILITY CROSSING (FURNISHED BY OTHERS)

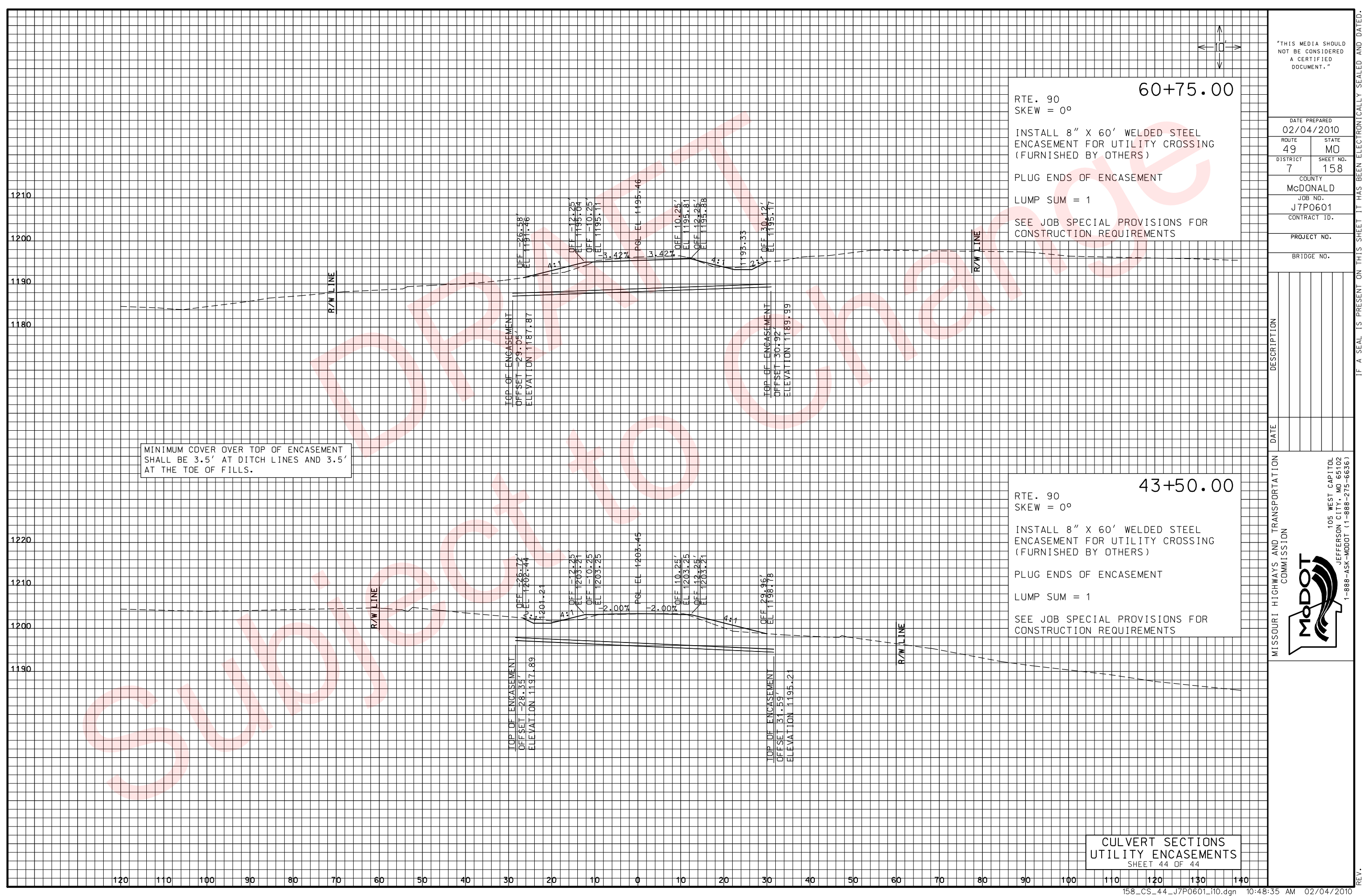
PLUG ENDS OF ENCASUREMENT

LUMP SUM = 1

SEE JOB SPECIAL PROVISIONS FOR CONSTRUCTION REQUIREMENTS

CULVERT SECTIONS
UTILITY ENCASUREMENTS
SHEET 44 OF 44

MINIMUM COVER OVER TOP OF ENCASUREMENT SHALL BE 3.5' AT DITCH LINES AND 3.5' AT THE TOE OF FILLS.



120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140