






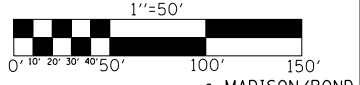
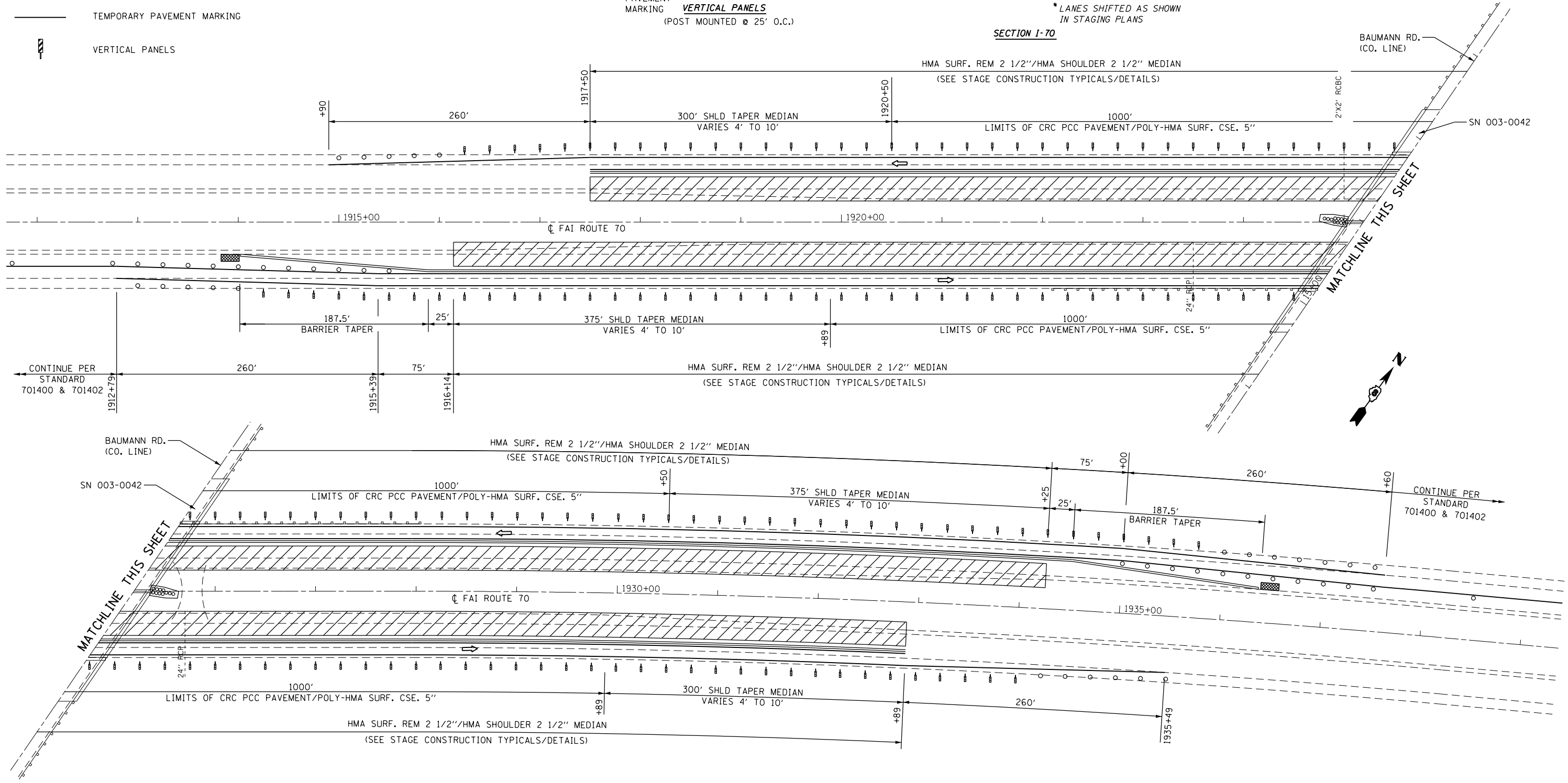
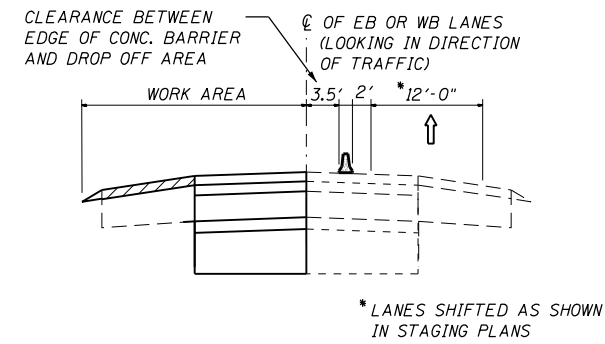
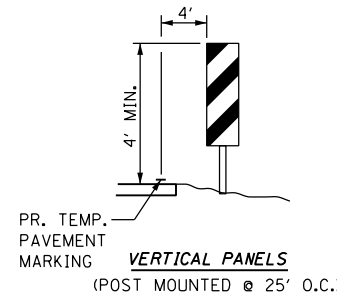


**LEGEND**

-  WORK AREA
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAVEL/LANE MAINTAINED
-  BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY PAVEMENT MARKING
-  VERTICAL PANELS

- NOTES:**
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE.
  2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE.
  3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE.
  4. WHERE POSTS FOR VERTICAL PANELS WOULD FALL WITHIN EXISTING HMA SHOULDERS, USE BARRICADE OR DRUMS.
  5. USE PAVEMENT MARKING BLACKOUT TAPE, 8" TO PROTECT RIGHT EDGE OF PAVEMENT INLAID STRIPING.

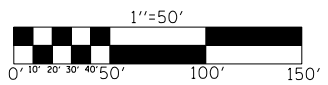
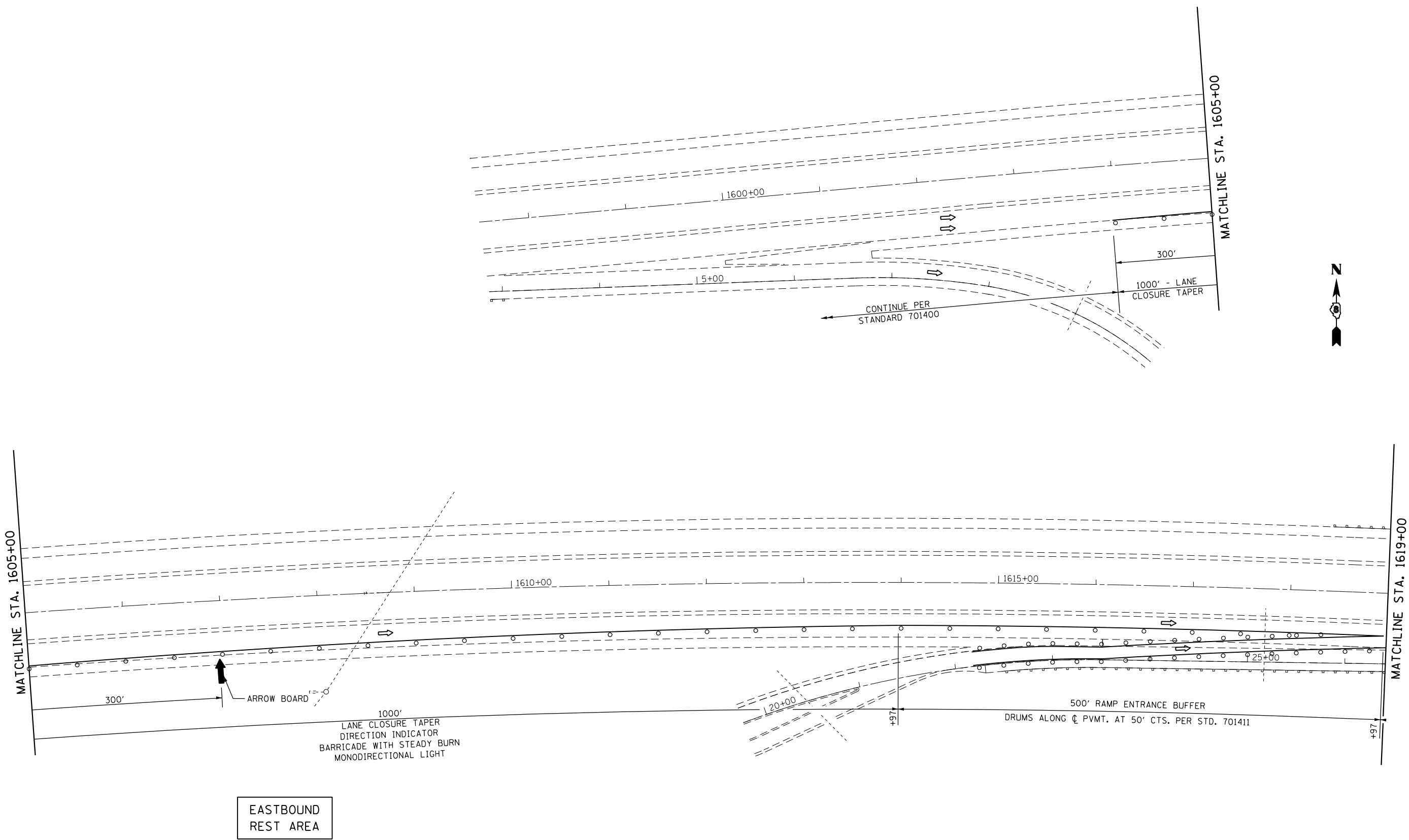


FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
Default		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL AND PROTECTION SPECIAL I-70 UNDER BAUMANN RD - STAGE 3</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	101
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**








**TRAFFIC CONTROL AND PROTECTION SPECIAL  
I-70 AT STRUCTURE 060-0033 (EB) & 060-0034 (WB) - STAGE 1 & 2**

SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA.

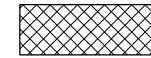
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	102
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND

**LEGEND**

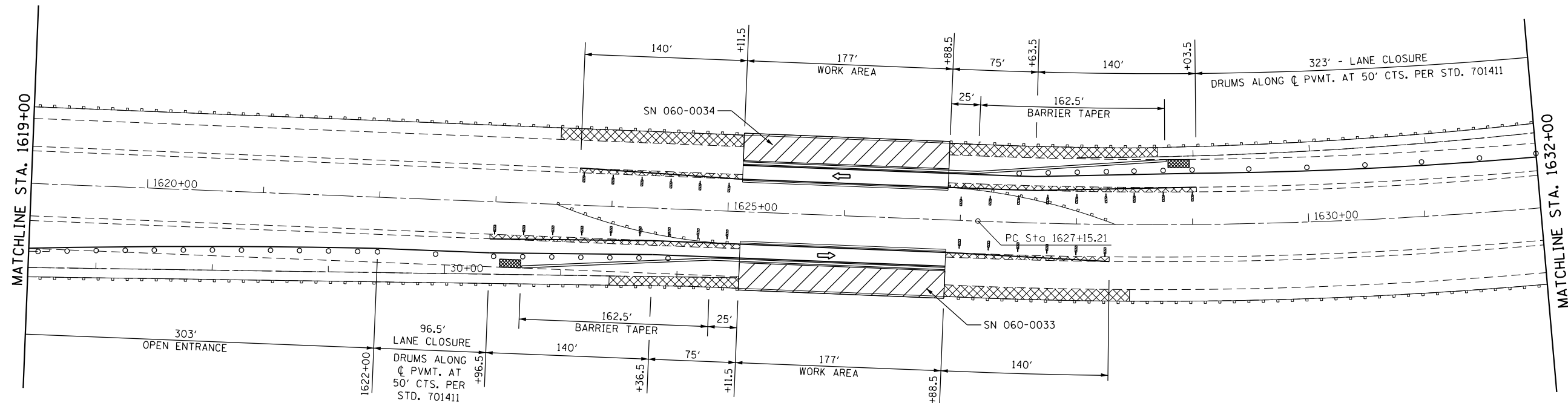
-  WORK AREA
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAVEL/LANE MAINTAINED
-  BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY PAVEMENT MARKING
-  VERTICAL PANELS

**STAGE I CONSTRUCTION WORK**



HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" (SQ YD)  
REPLACE WITH HOT-MIX ASPHALT SHOULDER (2 1/2" - TONS)

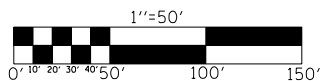
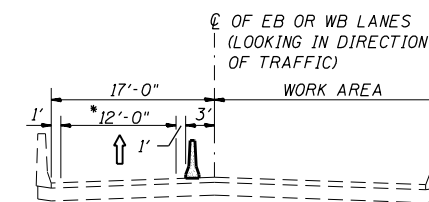
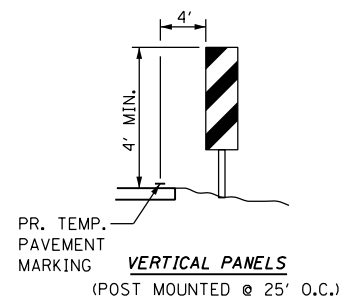
1. CLOSE DRIVING LANES (EB & WB) USING STANDARDS 701400 AND 701401. USE STANDARD 701411 (APPLICATION NO. 2) AT REST AREA ENTRANCE RAMP WHEN OPEN.
2. MILL EXISTING PAVED SHOULDERS ALONG DRIVING LANES. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2".  
STA. 1624+00 TO STA. 1625+11.5 & STA. 1626+88.5 TO STA. 1628+46 (EB)  
STA. 1623+54 TO STA. 1625+11.5 & STA. 1626+88.5 TO STA. 1629+70 (WB)
3. REPLACE WITH HOT-MIX ASPHALT SHOULDER (2 1/2" - TONS) AND AGGREGATE WEDGE SHOULDER, TYPE B.
4. CLOSE PASSING LANES USING STANDARDS 701400 AND 701401.
5. MILL EXISTING PAVED SHOULDERS ALONG PASSING LANES. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2".  
STA. 1622+96.5 TO STA. 1625+11.5 & STA. 1626+88.5 TO STA. 1628+28.5 (EB)  
STA. 1623+71.5 TO STA. 1625+11.5 & STA. 1626+88.5 TO STA. 1629+03.5 (WB)
6. REPLACE WITH HOT-MIX ASPHALT SHOULDER (2 1/2" - TONS) AND AGGREGATE WEDGE SHOULDER, TYPE B.



**STAGE II CONSTRUCTION WORK**

SEE WIDE LOAD SIGNING DETAILS

- NOTES:
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE.
  2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE.
  3. REFER TO STANDARD 701411 (APPLICATION NO. 2) FOR SIGNING AND MARKING OF LANE CLOSURE AT ENTRANCE RAMP.
  4. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE.
  5. WHERE POSTS FOR VERTICAL PANELS WOULD FALL WITHIN EXISTING HMA SHOULDERS, USE BARRICADE OR DRUMS.



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
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Default	PLOT DATE = 5/6/2016	DATE -	REVISED -

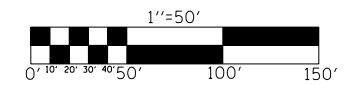
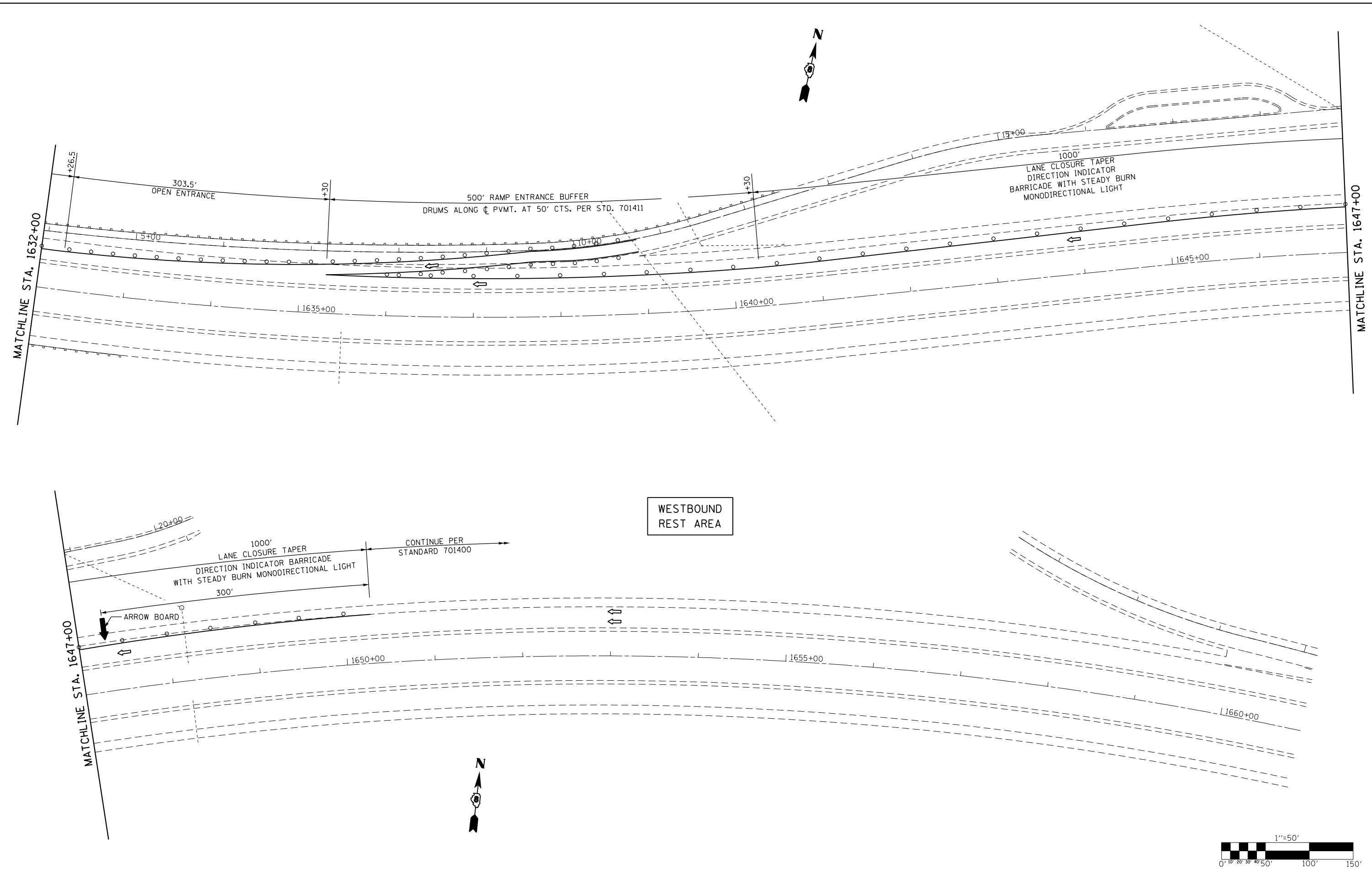
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION SPECIAL**  
**I-70 AT STRUCTURE 060-0033 (EB) & 060-0034 (WB) - STAGE 1 & 2**

SCALE: 1"=50'    SHEET    OF    SHEETS    STA.    TO    STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	103
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 8\Projects\0875\Drawings\060-0033\3.dgn		REVISIONS	REVISIONS
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2016	DATE -	REVISED -








**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION SPECIAL  
I-70 AT STRUCTURE 060-0033 (EB) & 060-0034 (WB) - STAGE 1 & 2**

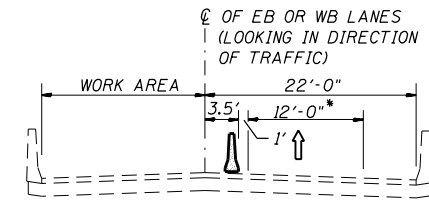
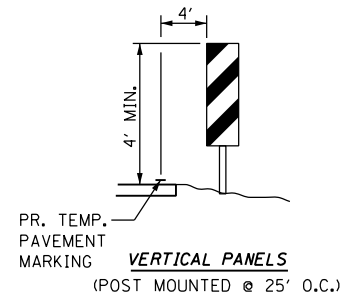
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	104
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO STA.

**LEGEND**

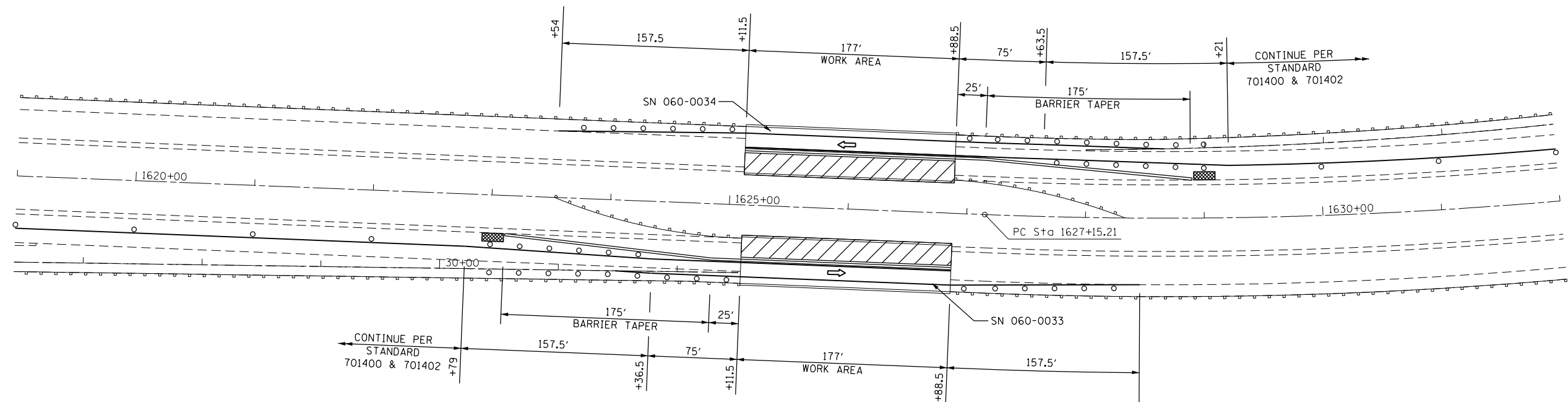
-  WORK AREA
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAVEL/LANE MAINTAINED
-  BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY PAVEMENT MARKING
-  VERTICAL PANELS

- NOTES:**
1. REFER TO STANDARD 701400 FOR SIGNING AND MARKING OF APPROACH TO LANE CLOSURE.
  2. REFER TO STANDARD 701402 FOR SIGNING AND MARKING OF LANE CLOSURE.
  3. REFER TO SPECIAL PROVISIONS FOR WORK INCLUDED IN THIS STAGE.
  4. WHERE POSTS FOR VERTICAL PANELS WOULD FALL WITHIN EXISTING HMA SHOULDER, USE BARRICADE OR DRUMS

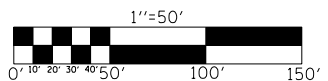


**SECTION I-70**

\* LANES SHIFTED AS SHOWN IN STAGING PLANS



**NOTE:**  
UPON COMPLETION OF STAGE 3 STRUCTURE WORK, MILL EXISTING HMA BASE COURSE SHOULDERS (2 1/2") AND REPLACE WITH HMA SHOULDER (2 1/2")



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 5/6/2016	DATE -	REVISOR -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





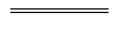
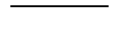




**TRAFFIC CONTROL AND PROTECTION SPECIAL  
I-70 AT STRUCTURE 060-0033 (EB) & 060-0034 (WB) - STAGE 3**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

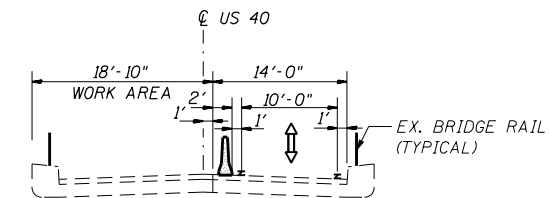
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	105
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

MADISON/BOND

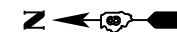
LEGEND

-  WORK AREA
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAVEL/LANE MAINTAINED
-  BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY PAVEMENT MARKING
-  VERTICAL PANELS
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  STOP BAR, TEMPORARY PAVEMENT MARKING
-  TYPE III BARRICADES

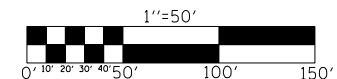
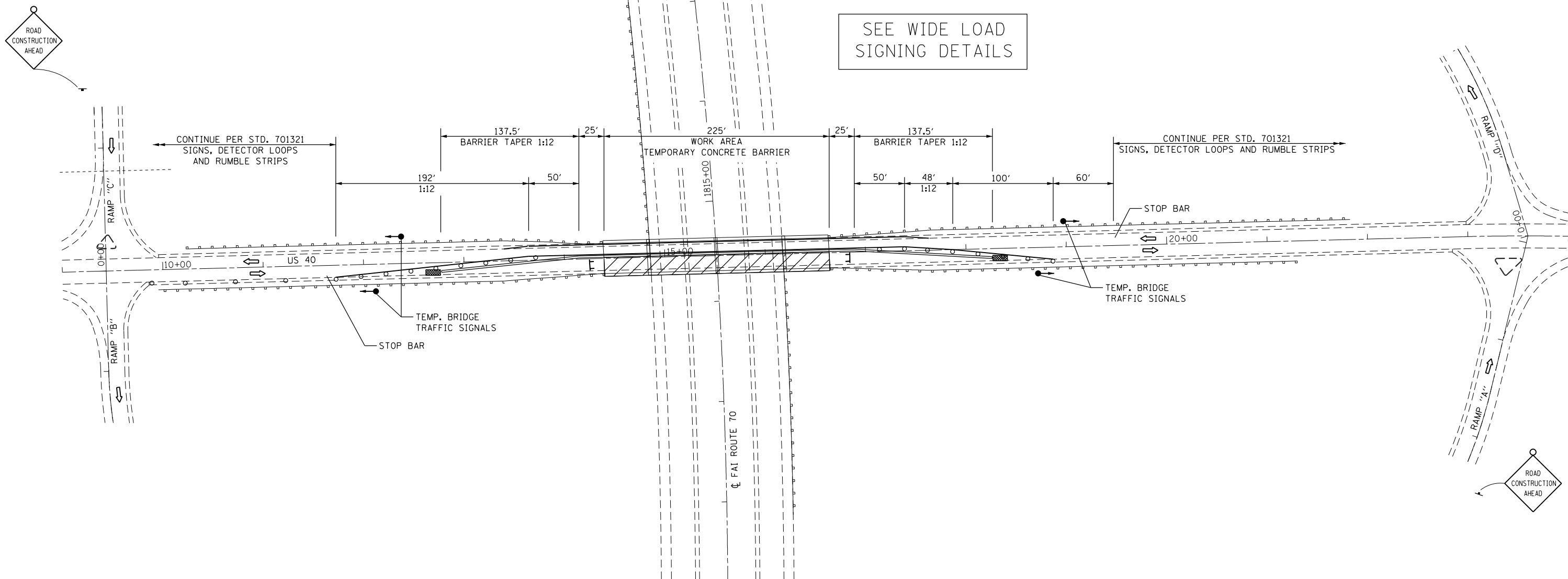
- NOTES:
1. REFER TO STANDARD 701321 FOR SIGNING AND MARKING OF LANE CLOSURE, 2 LANE, 2 WAY, BRIDGE REPAIR WITH BARRIER, FOR SIGN W-13-1(0)-2424 USE 15 MPH.
  2. BRIDGE MAXIMUM WIDTH = 10'-6". SIGN W12-1103(0)-48 SHALL READ THIS WIDTH.



SECTION - US 40  
SECTION THROUGH WORK ZONE  
LOOKING NORTH



SEE WIDE LOAD  
SIGNING DETAILS



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
Default			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -	REVISOR -
PLOT DATE = 5/6/2016	DATE -	REVISOR -	REVISOR -




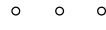
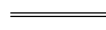
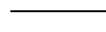




STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION SPECIAL  
US 40 OVER I-70 (SN 060-0079) - STAGE 2

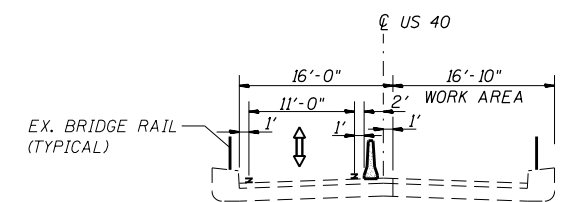
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	106
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

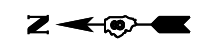
LEGEND

-  WORK AREA
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAVEL/LANE MAINTAINED
-  BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TEMPORARY CONCRETE BARRIER
-  TEMPORARY PAVEMENT MARKING
-  VERTICAL PANELS
-  TEMPORARY BRIDGE TRAFFIC SIGNALS
-  STOP BAR, TEMPORARY PAVEMENT MARKING
-  TYPE III BARRICADES

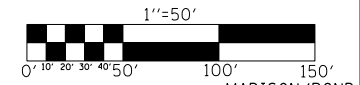
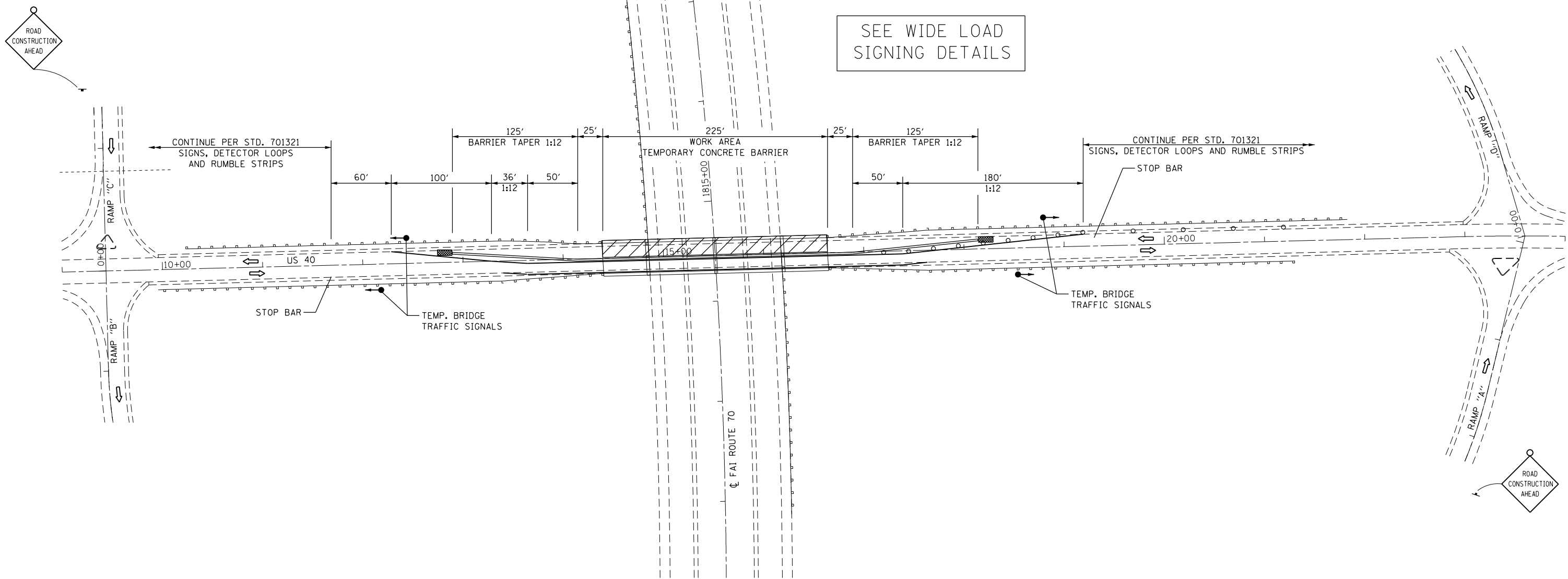
- NOTES:
1. REFER TO STANDARD 701321 FOR SIGNING AND MARKING OF LANE CLOSURE, 2 LANE, 2 WAY, BRIDGE REPAIR WITH BARRIER, FOR SIGN W-13-1(0)-2424 USE 15 MPH.
  2. BRIDGE MAXIMUM WIDTH = 10'-6". SIGN W12-1103(0)-48 SHALL READ THIS WIDTH.



SECTION - US 40  
SECTION THROUGH WORK ZONE  
LOOKING NORTH



SEE WIDE LOAD  
SIGNING DETAILS



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
Default			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/6/2016	DATE -	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION SPECIAL  
US 40 OVER I-70 (SN 060-0079) - STAGE 3

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	107
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

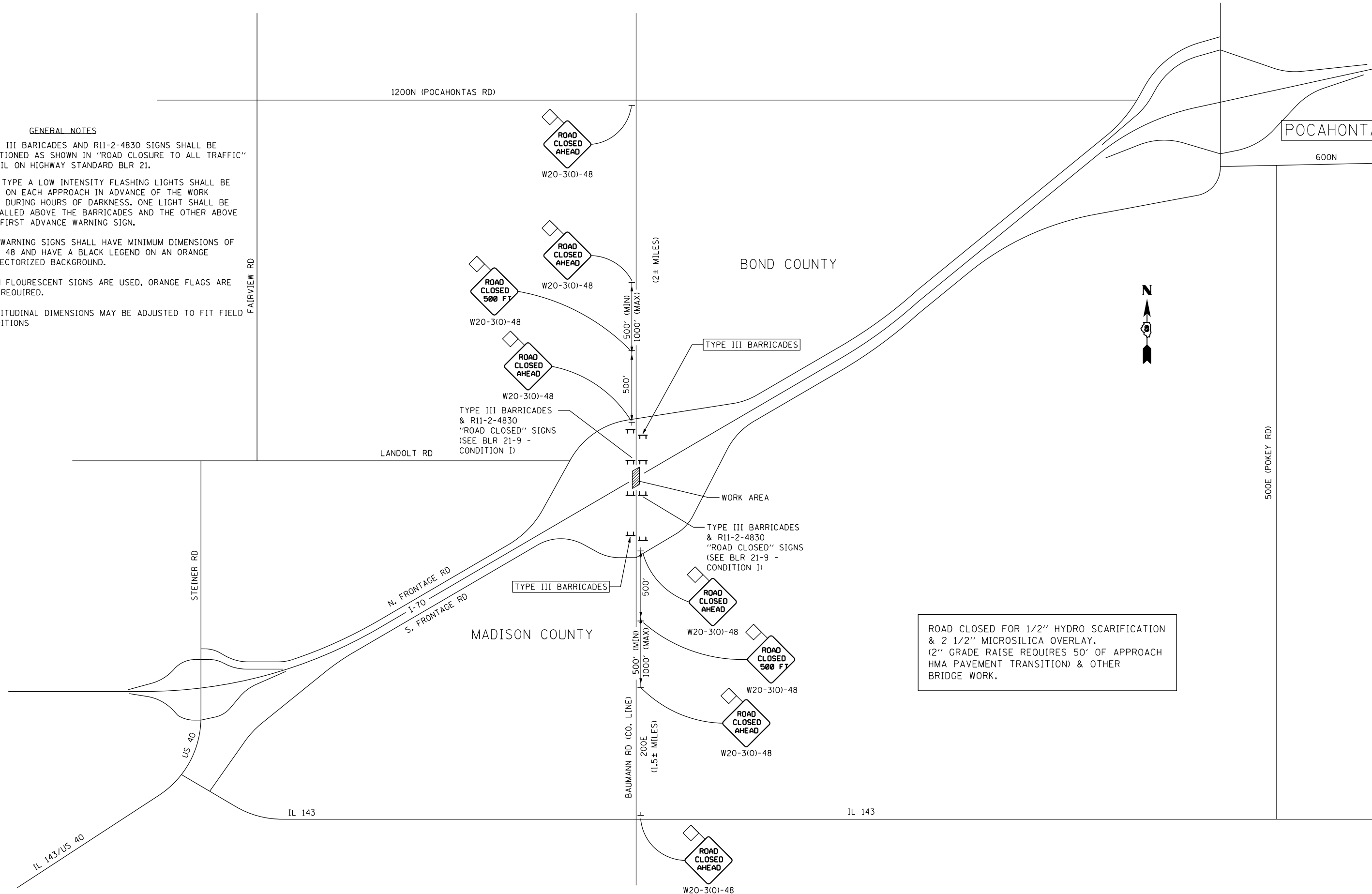
TYPE III BARRICADES AND R11-2-4830 SIGNS SHALL BE POSITIONED AS SHOWN IN "ROAD CLOSURE TO ALL TRAFFIC" DETAIL ON HIGHWAY STANDARD BLR 21.

TWO TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS. ONE LIGHT SHALL BE INSTALLED ABOVE THE BARRICADES AND THE OTHER ABOVE THE FIRST ADVANCE WARNING SIGN.

ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48 X 48 AND HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.

WHEN FLOURESCENT SIGNS ARE USED, ORANGE FLAGS ARE NOT REQUIRED.

LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS



ROAD CLOSED FOR 1/2" HYDRO SCARIFICATION & 2 1/2" MICROSILICA OVERLAY. (2" GRADE RAISE REQUIRES 50' OF APPROACH HMA PAVEMENT TRANSITION) & OTHER BRIDGE WORK.

FILE NAME =	USER NAME = MurrayDA	DESIGNED -	REVISED -
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Default	PLOT DATE = 5/11/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY ROAD CLOSURE  
BAUMANN RD. OVER I-70 (SN 003-0042)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	108
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND



**NOTES:**

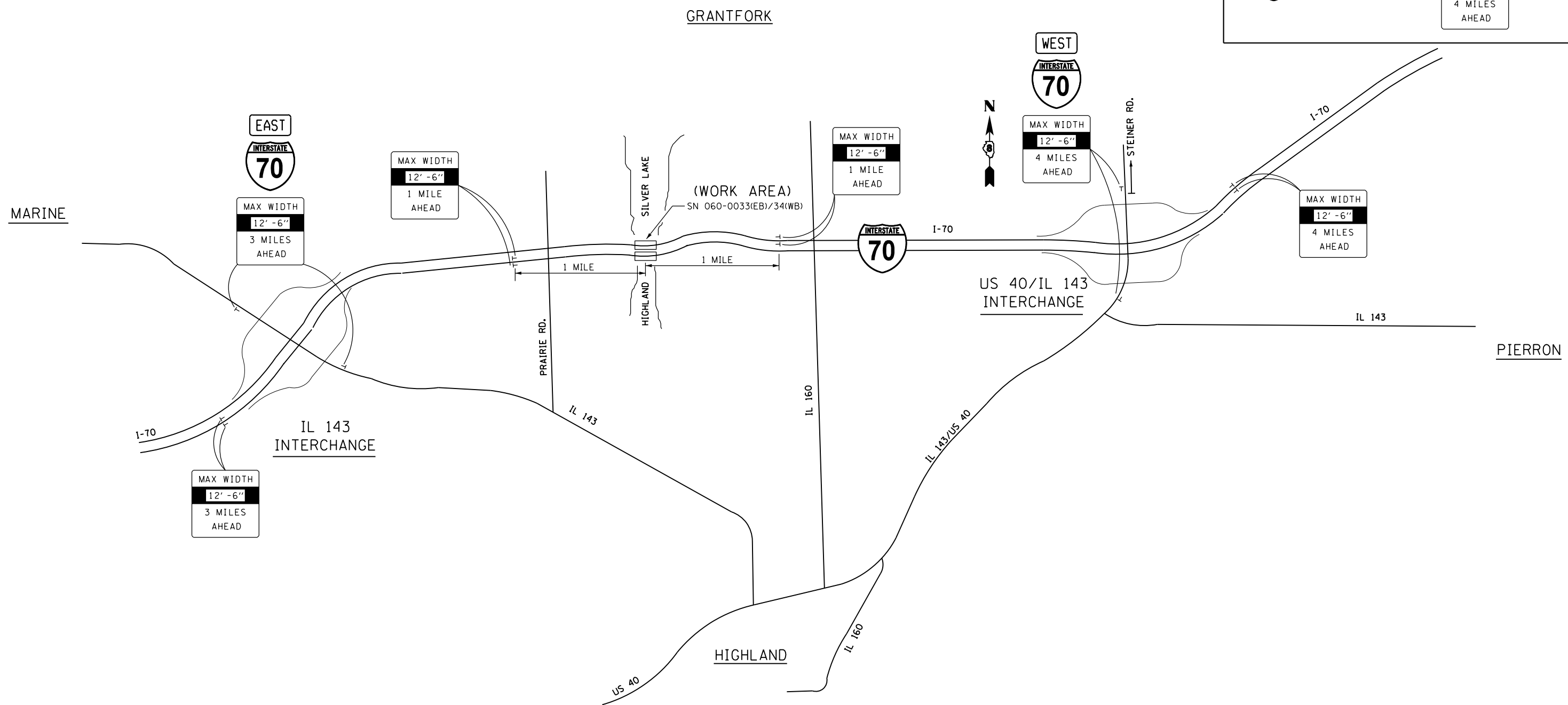
1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE THE ILLINOIS DEPARTMENT OF TRANSPORTATION TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE - 618-394-2189.
4. THE ABOVE NOTED WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING FROM INTERSECTIONS SHALL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

**I-70 BRIDGE REPAIR**  
**SN 060-0033(EB)/34(WB) OVER HIGHLAND SILVER LAKE**

**STAGE II WIDE LOAD SIGNING**

**SIGNS REQUIRED**

	(2)		(4)
		1 MILE AHEAD	
	(2)		(4)
		3 MILES AHEAD	
	(4)		(4)
		4 MILES AHEAD	



FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
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Default	PLOT DATE = 5/6/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WIDE LOAD SIGNING DETAILS**  
**SN 060-0033(EB)/34(WB) OVER HIGHLAND SILVER LAKE**

SCALE: NTS      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	109
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

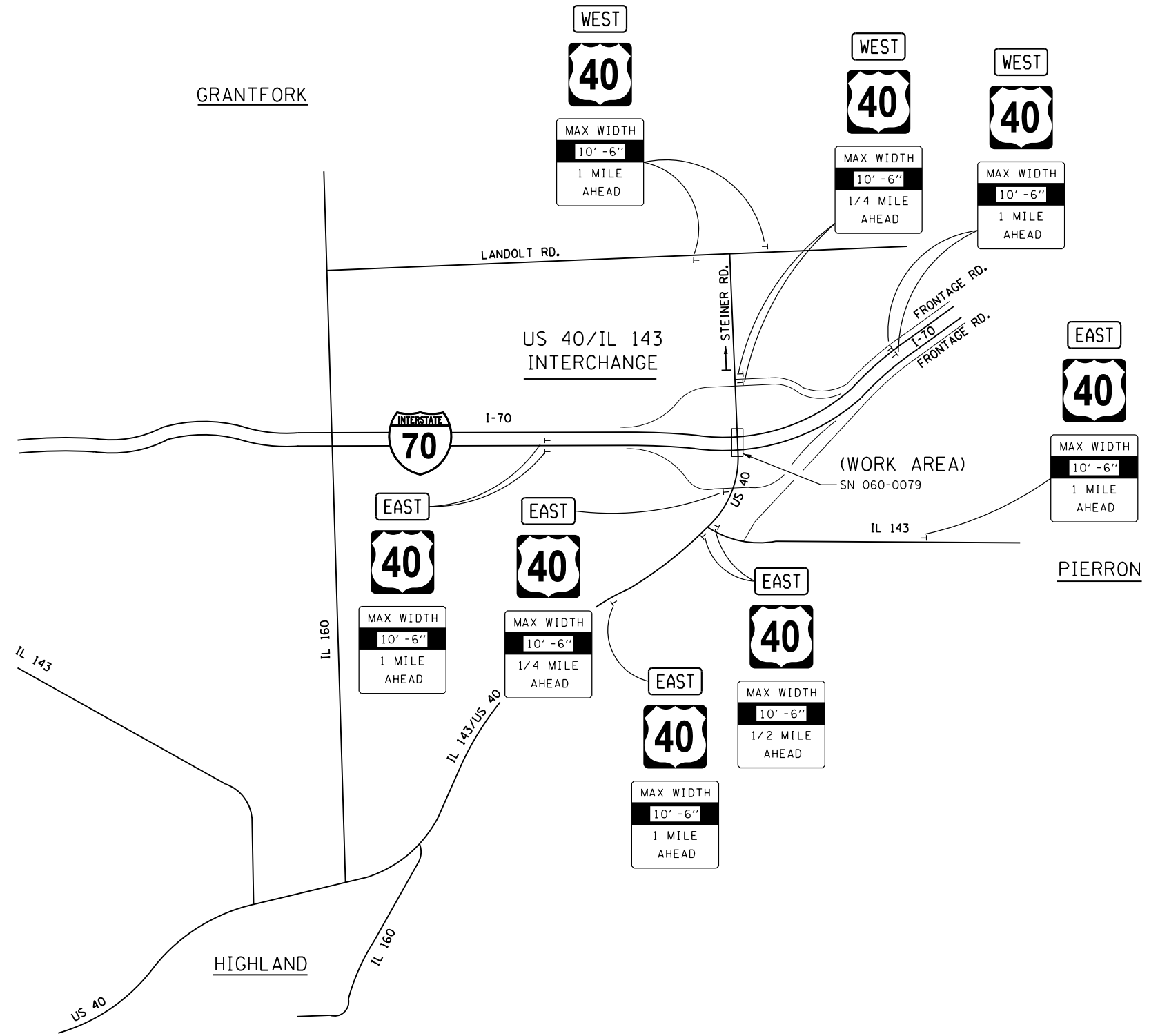
• MADISON/BOND

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE THE ILLINOIS DEPARTMENT OF TRANSPORTATION TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE - 618-394-2189.
4. THE ABOVE NOTED WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING FROM INTERSECTIONS SHALL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

US 40 BRIDGE REPAIR

SN 060-0079 OVER I-70

STAGE II & III WIDE LOAD SIGNING



SIGNS REQUIRED

- |  |      |  |     |
|--|------|--|-----|
|  | (7)  |  | (3) |
|  | (6)  |  | (2) |
|  | (13) |  | (8) |

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

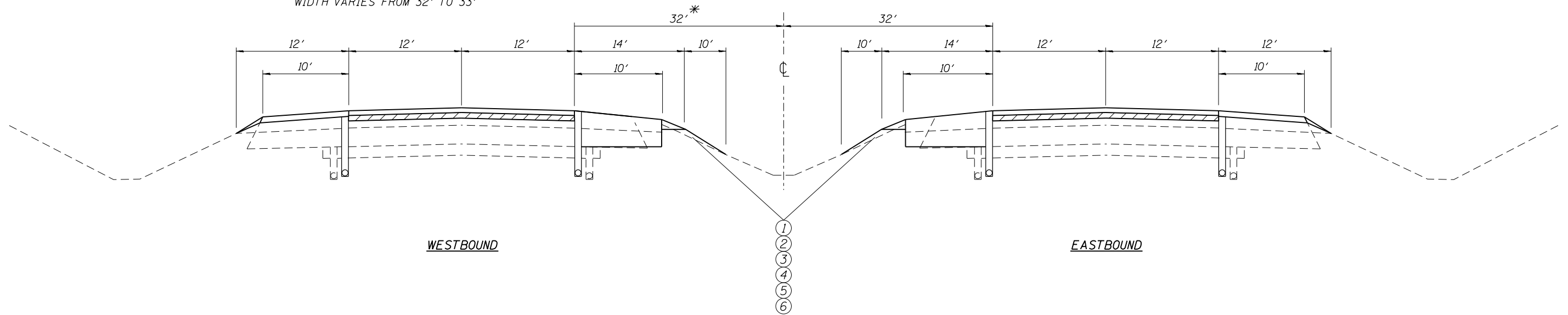
WIDE LOAD SIGNING DETAILS  
SN 060-0079 OVER I-70

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	110
			CONTRACT NO. 76F94	
ILLINOIS FED. AID PROJECT				

MADISON/BOND

\* STA. 1840+00 TO STA. 1854+72.34 (WB LANES)  
WIDTH VARIES FROM 32' TO 33'



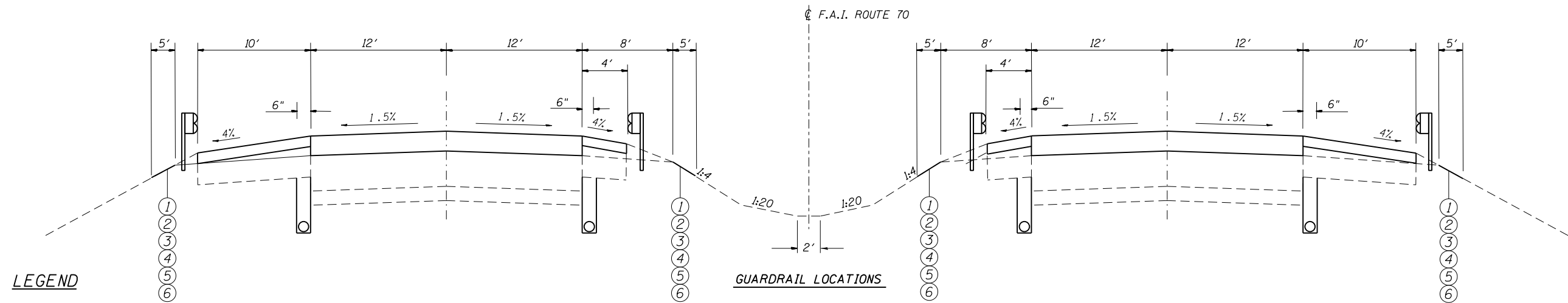
WESTBOUND

EASTBOUND

TYPICAL EROSION CONTROL SECTION F.A.I. 70  
0.1 MI W OF PRAIRIE RD. TO 0.1 MI E OF MADISON/BOND COUNTY LINE  
STA. 1585+77 TO STA. 1934+25

I 70 UNDERPASS LOCATIONS WB  
STA 1589+60.00 TO STA 1599+60.00  
STA 1690+47.00 TO STA 1700+47.00  
STA 1809+43.00 TO STA 1819+51.00 (1000' ALONG  $\phi$  OF PVM'T)  
STA 1920+50.00 TO STA 1930+50.00

I 70 UNDERPASS LOCATIONS EB  
STA 1589+52.00 TO STA 1599+52.00  
STA 1690+49.00 TO STA 1700+49.00  
STA 1809+48.00 TO STA 1819+40.00 (1000' ALONG  $\phi$  OF PVM'T)  
STA 1919+89.00 TO STA 1929+89.00



LEGEND

GUARDRAIL LOCATIONS

- ① PROPOSED SEEDING CLASS 2A
- ② PROPOSED NITROGEN FERTILIZER NUTRIENT
- ③ PROPOSED PHOSPHOROUS FERTILIZER NUTRIENT
- ④ PROPOSED POTASSIUM FERTILIZER NUTRIENT
- ⑤ PROPOSED EROSION CONTROL BLANKET
- ⑥ PROPOSED TEMPORARY EROSION CONTROL SEEDING

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Default	PLOT DATE = 5/6/2016	DATE -	REVISED -

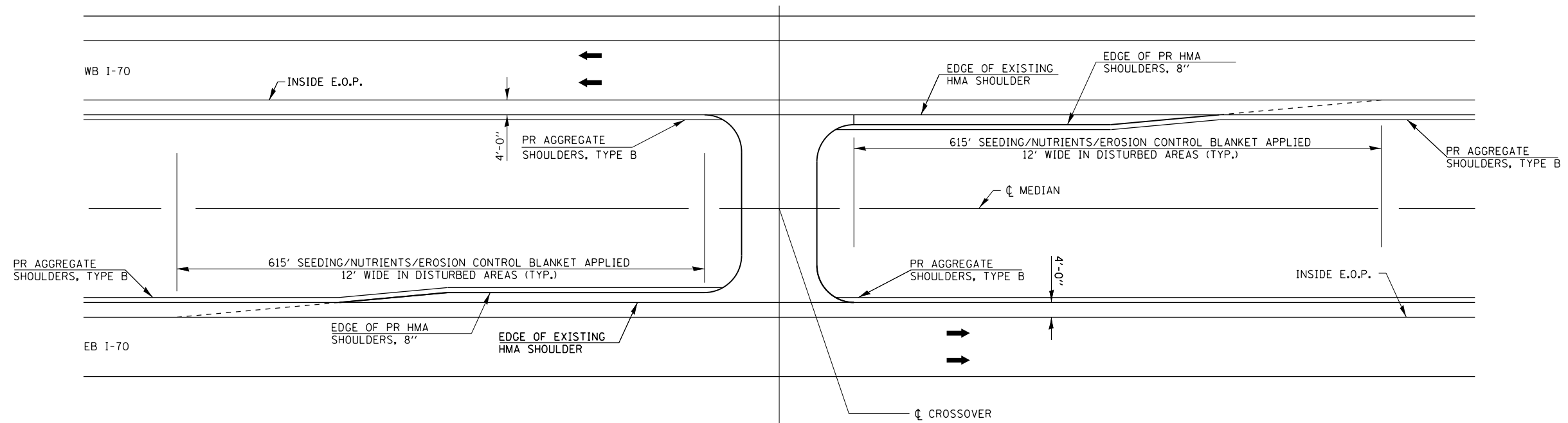
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAIL

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	111
			CONTRACT NO. 76F94	
ILLINOIS FED. AID PROJECT				

MADISON/BOND



CROSSOVER SHOULDER WIDENING AREAS  
SEEDING AND MULCH AREA DETAIL

STA. 1773+00  
STA. 1875+00

SEE SEEDING & EROSION CONTROL SCHEDULE.

• MADISON/BOND

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EMERGENCY MEDIAN CROSSOVER EROSION CONTROL DETAIL</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 8\Projects\0875\Drawings\EA\Sheets\EDITEDCONSULTANTS\REVISED\694-sht-details.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					70	60-(13,14,15)RS-3	•	226	112
Default	PLOT DATE = 5/6/2016	DATE -	REVISED -					SCALE: NTS    SHEET    OF    SHEETS    STA.    TO STA.			CONTRACT NO. 76F94	



COORDINATE TABLE		
STATION	NORTHING	EASTING
I-70		
POT STA 1735+18.04	772297.03	441487.00
POT STA 1745.74.23	772305.99	442543.15
CHANNEL		
POT STA 0+00.00	772403.40	442166.71
PC STA 1+19.14	772501.70	442234.01
PI STA 1+51.01	772528.00	442252.02
PT STA 1+81.44	772541.90	442280.70
POT STA 2+03.05	772551.32	442300.15
SOUTH DITCH		
POT STA 10+00.00	772439.70	442082.56
POT STA 10+39.93	772443.70	442122.29
NORTH DITCH		
POT STA 20+00.00	772477.31	442110.59
POT STA 20+35.59	772443.70	442122.29
EAST DITCH		
POT STA 30+00.00	772385.78	442313.94
POT STA 30+27.88	772.387.21	442286.10
POT STA 30+42.75	772389.56	442271.41
POT STA 30+55.23	772392.08	442259.18
PC STA 30+67.38	772395.19	442247.44
PI STA 30+87.05	772400.24	442228.43
PT STA 31+01.68	772419.83	442226.72
PC STA 31+02.36	772420.51	442226.66
PI STA 31+05.24	772423.38	442226.41
PT STA 31+07.97	772425.68	442224.67
POT STA 31+10.27	772427.51	442223.29
WEST DITCH		
POT STA 50+00.00	772446.85	442117.69
POT STA 50+47.50	772420.02	442156.88

BY: Brian R. Mueller DATE: 08-12-2015

EXPIRES 11-30-2015

APPLIES TO PLAN SHEETS: 113-119, 205-219

CONSULTING ENGINEERS

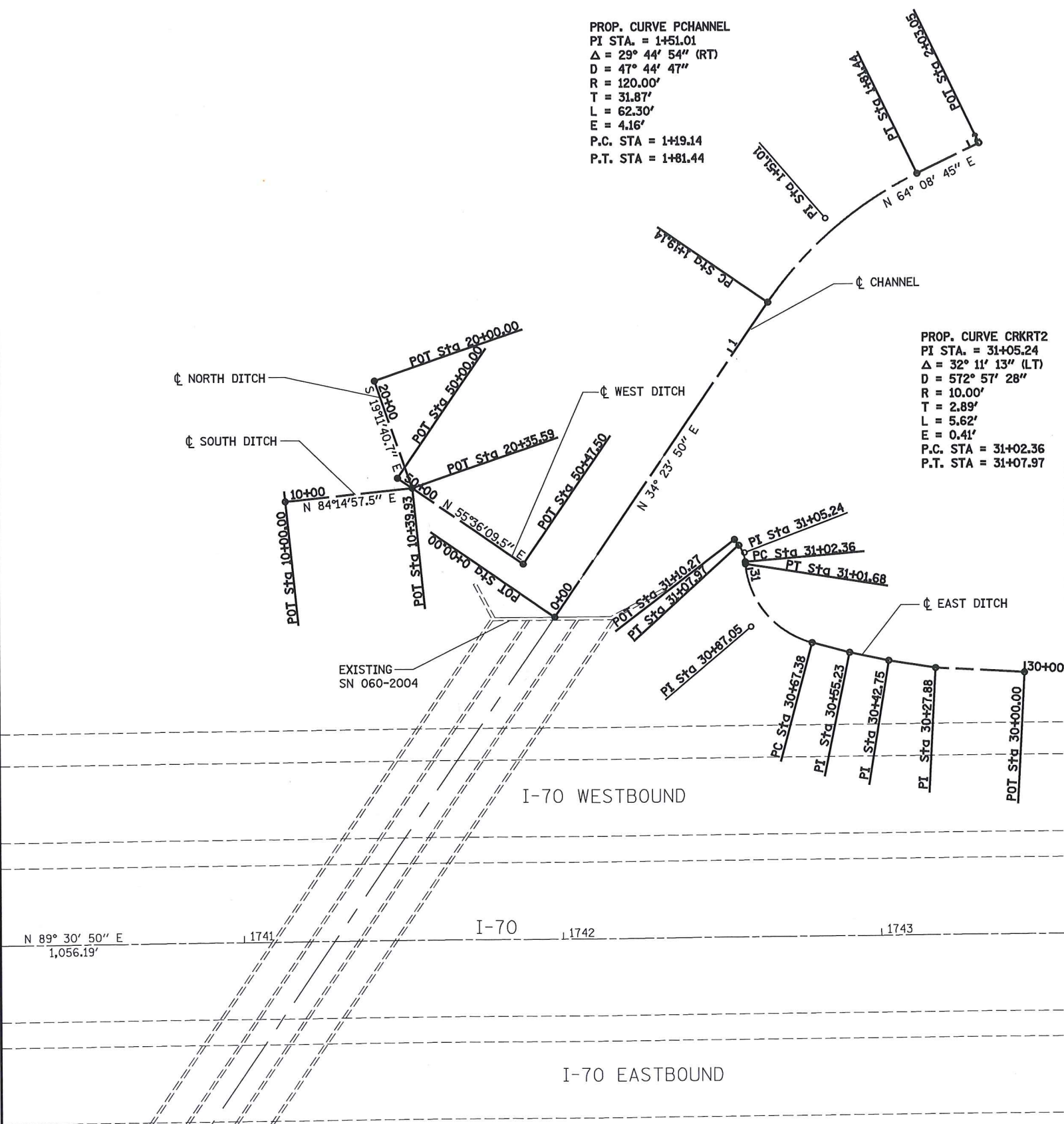
**LOCHMUELLER GROUP**

1928 S/A BRADLEY R. SMITH DRIVE  
TROY, ILLINOIS 62294  
PHONE (618) 667-1400

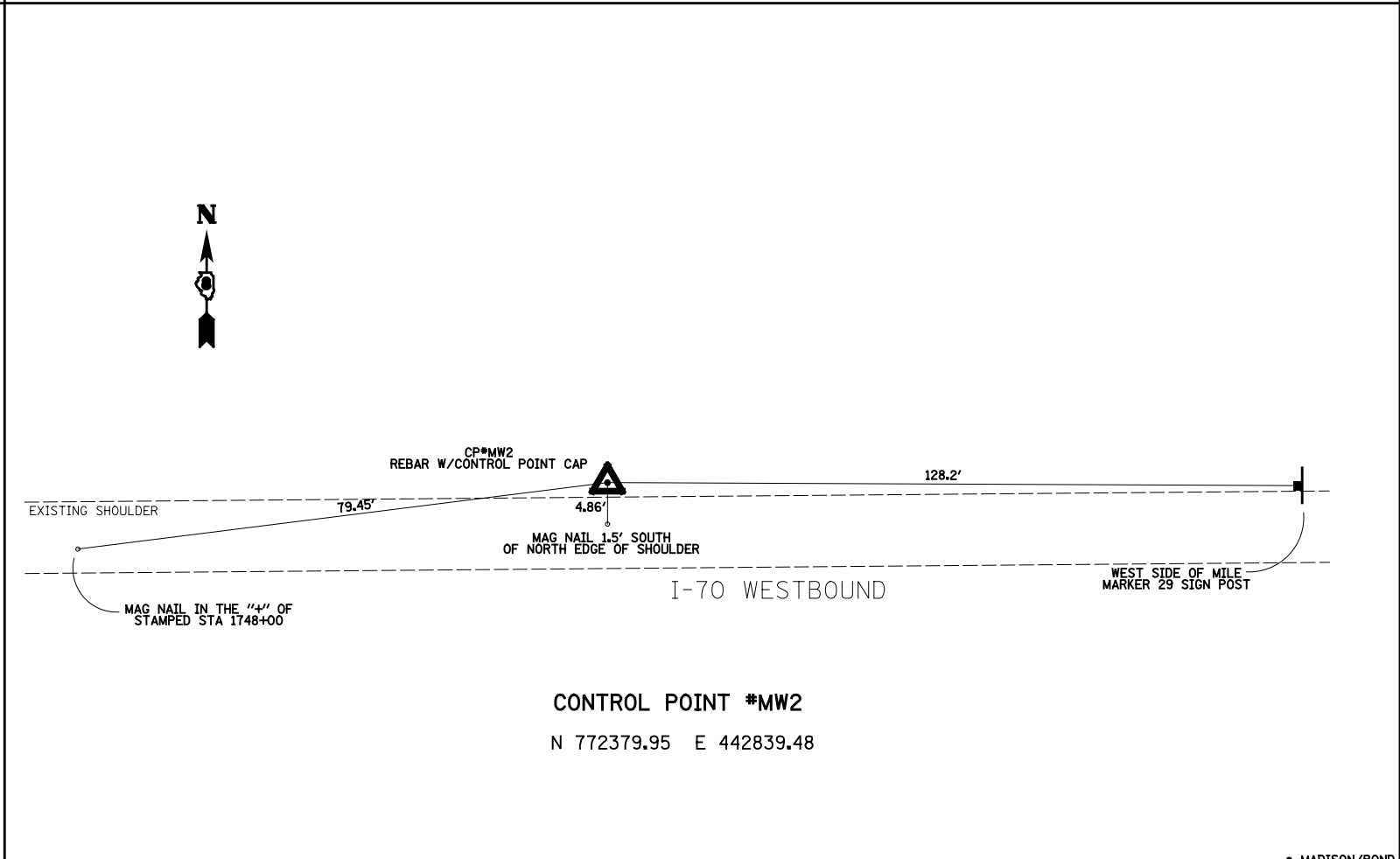
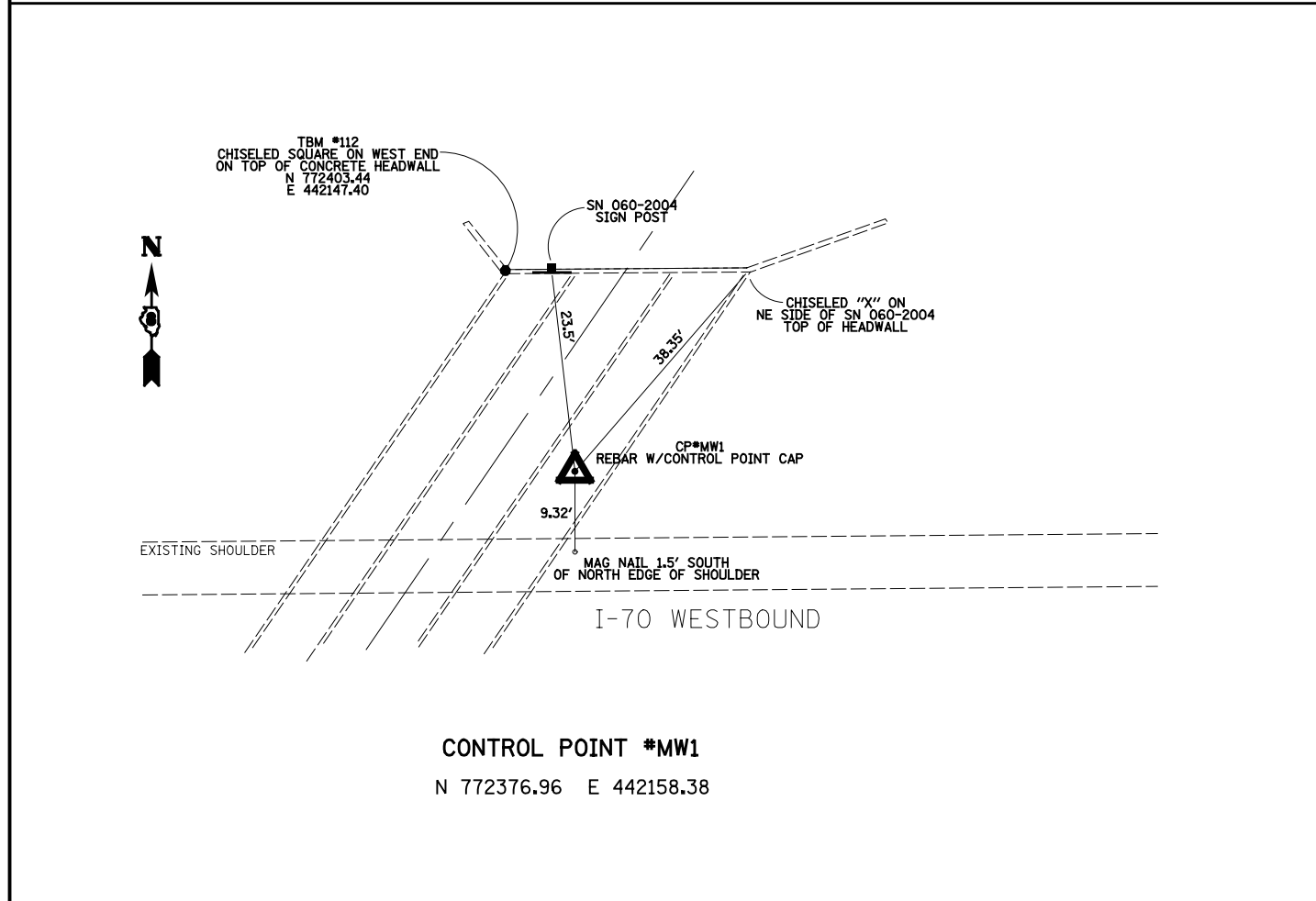
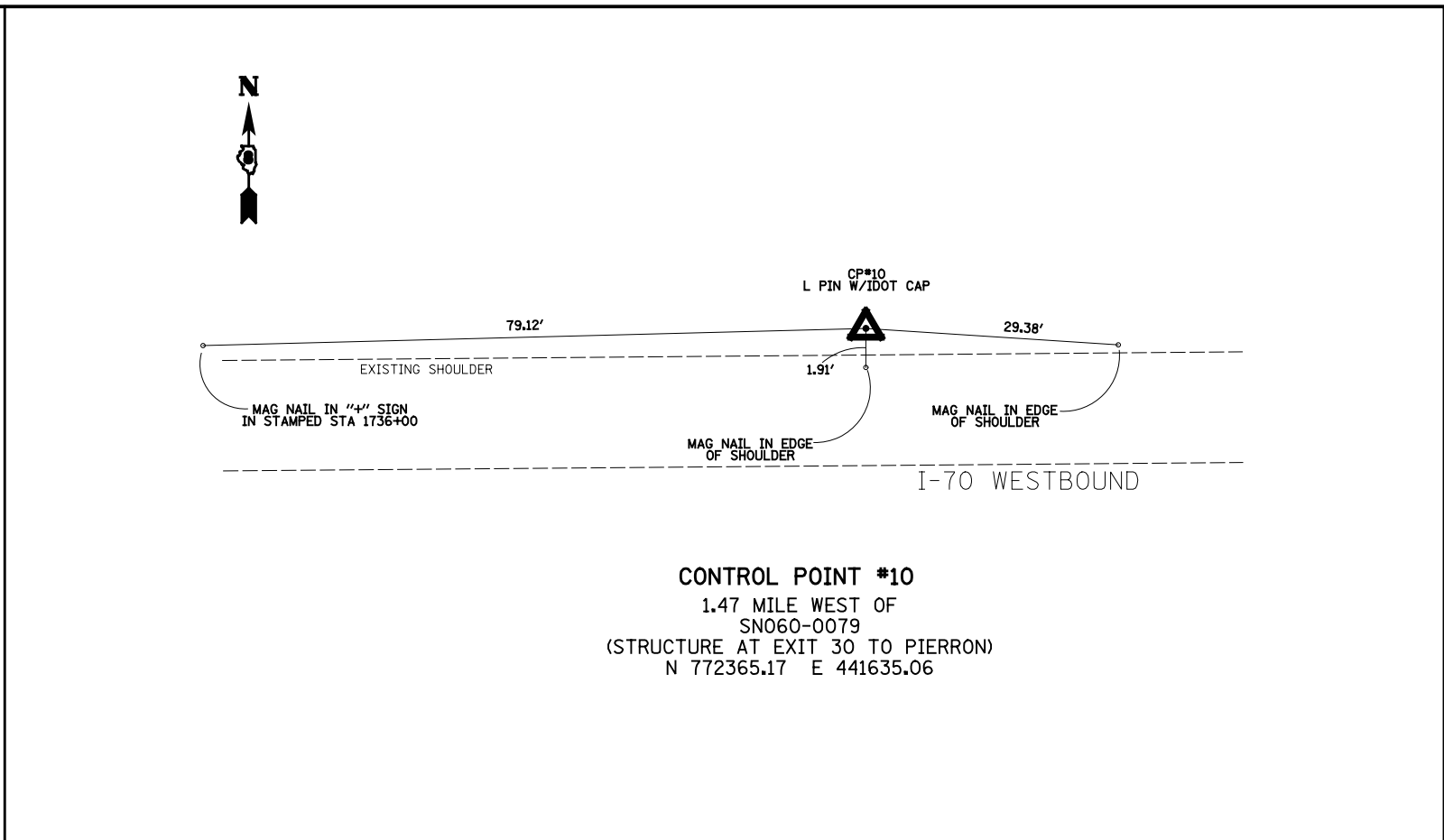
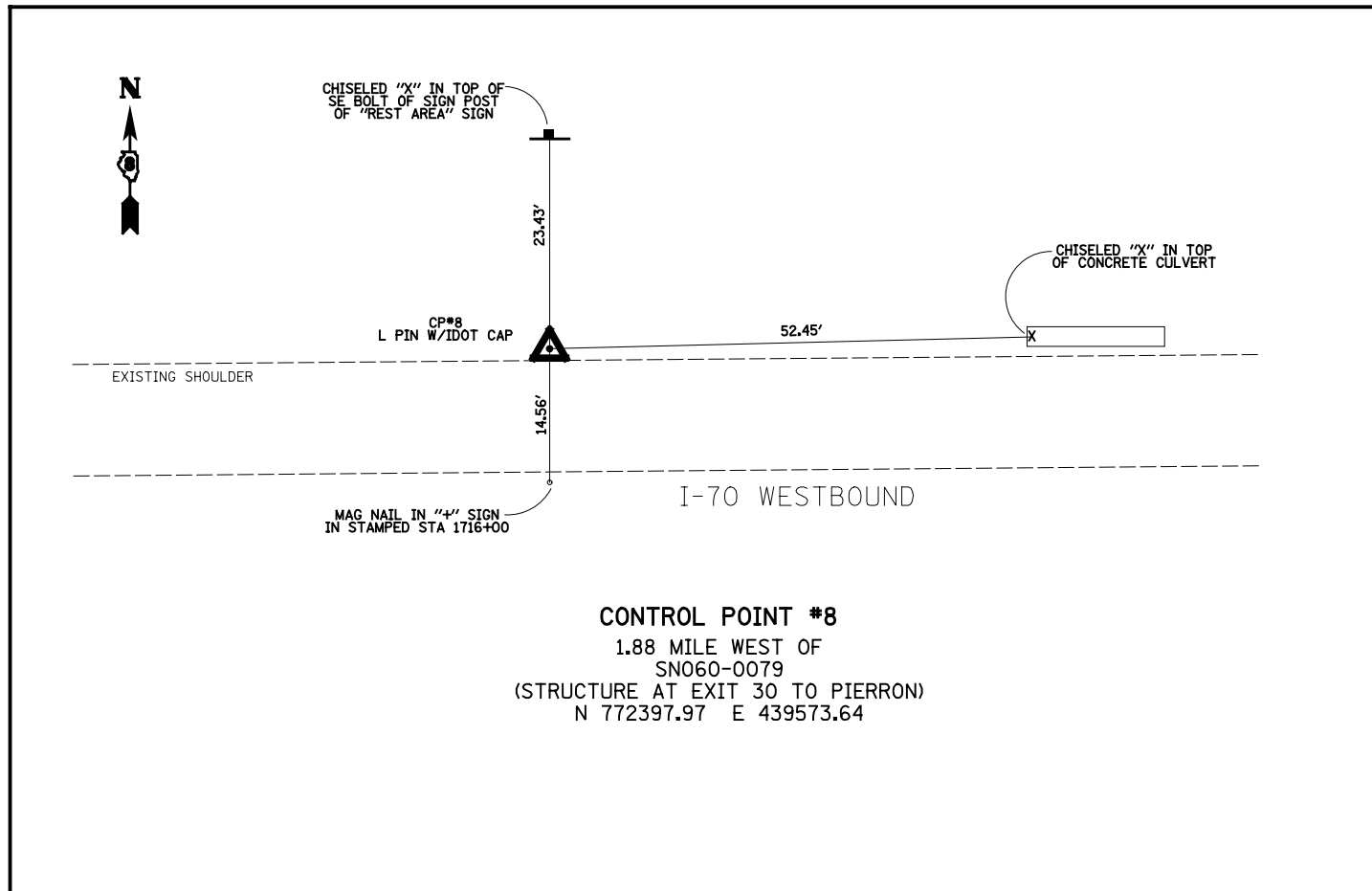
PROP. CURVE PCHANNEL  
 PI STA. = 1+51.01  
 $\Delta = 29^\circ 44' 54''$  (RT)  
 $D = 47^\circ 44' 47''$   
 $R = 120.00'$   
 $T = 31.87'$   
 $L = 62.30'$   
 $E = 4.16'$   
 P.C. STA = 1+19.14  
 P.T. STA = 1+81.44

PROP. CURVE CRKRT2  
 PI STA. = 31+05.24  
 $\Delta = 32^\circ 11' 13''$  (LT)  
 $D = 572^\circ 57' 28''$   
 $R = 10.00'$   
 $T = 2.89'$   
 $L = 5.62'$   
 $E = 0.41'$   
 P.C. STA = 31+02.36  
 P.T. STA = 31+07.97

PROP. CURVE CRKRT1  
 PI STA. = 30+87.05  
 $\Delta = 70^\circ 10' 50''$  (RT)  
 $D = 204^\circ 37' 40''$   
 $R = 28.00'$   
 $T = 19.67'$   
 $L = 34.30'$   
 $E = 6.22'$   
 P.C. STA = 30+67.38  
 P.T. STA = 31+01.68



<p>1928 S/A BRADLEY R. SMITH DRIVE TROY, IL 62294 PHONE: 618.667.1400</p>	USER NAME = bctay	DESIGNED - ESW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CHANNEL RE-ESTABLISHMENT ALIGNMENT</b>	F.A.I. RTE. 70	SECTION 60-(13,14,15)RS-3	COUNTY	TOTAL SHEETS 226	SHEET NO. 113
	PLOT SCALE = 48.0000' / 1in.	CHECKED - BRM	REVISED -			SCALE: 1"=20'	SHEET 1 OF 7 SHEETS STA. TO STA.	CONTRACT NO. 76F94		ILLINOIS FED. AID PROJECT
PLOT DATE = 8/18/2015	DATE = 01/13/15	REVISED -	REVISED -							



USER NAME = betsy	DESIGNED - ESW	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - LEC	REVISED -
PLOT DATE = 8/10/2015	CHECKED - BRM	REVISED -
	DATE - 01/13/15	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TIE POINTS  
 CHANNEL RE-ESTABLISHMENT**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	114
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND

**EARTHWORK SCHEDULE**

LOCATION	CHANNEL EXCAVATION (CU YD)	FURNISHED EXCAVATION (CU YD)	REMARKS
STATION TO STATION			
CHANNEL	1880	135	
WEST DITCH	135	15	
SOUTH DITCH	80	0	
NORTH DITCH	70	0	
EAST DITCH	145	0	
<b>SUBTOTAL</b>	<b>2310</b>	<b>150</b>	
<b>PAY TOTAL</b>	<b>2310</b>	<b>150</b>	

**RIPRAP SCHEDULE**

LOCATION	STONE RIPRAP, CLASS A5 (SQ YD)	FILTER FABRIC (SQ YD)
STATION TO STATION		
STATION TO STATION		
STA 0+00 TO STA 0+71	1141.1	1141.1
STA 0+00 TO STA 0+30	216.8	216.8
STA 0+31 TO STA 0+65	107.8	107.8
<b>SUBTOTAL</b>	<b>1465.7</b>	<b>1465.7</b>
<b>TOTAL</b>	<b>1466</b>	<b>1466</b>

**TREE REMOVAL SCHEDULE**

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
STATION		
STATION		
1740+97	9	
1740+97	9	
1741+08	6	
1741+11	7	
1741+11	7	
1741+11	7	
1741+52	6	
1741+62	12	
1741+62	12	
1741+63	8	
1741+73	11	
0+00	10	
0+00	10	
0+05	9	
0+06	11	
0+07	8	
0+08	10	
0+08	6	
0+09	6	
0+09		24
0+11		30
0+11	6	
0+13		24
0+14		18
0+15	9	
0+19	11	
0+19	8	
0+21	8	
0+21	9	
0+26	11	
0+26	14	
0+27	12	
0+27		18
0+30	6	
0+31		28
0+34	6	
0+35		27
0+36	6	
0+39		18
0+41		24
0+43	10	
0+43	6	
0+48	12	
0+50	12	
0+50	6	
0+51	9	
0+52	6	
0+52	6	
0+52	6	
0+52	6	
0+52	6	
0+53	6	
0+55		24
0+57		18
0+58		24
0+60		24
0+60	7	
<b>SUBTOTAL</b>	<b>368</b>	<b>301</b>

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)
STATION		
STATION		
0+61	14	
0+64	10	
0+66	8	
0+68	13	
0+68	7	
0+69		22
0+71		27
0+72	10	
0+74	15	
0+74	8	
0+82		20
0+83		22
0+85	15	
0+85		24
0+90	11	
0+92	6	
0+92	10	
0+94	8	
0+98		28
1+00	6	
1+00	9	
1+04		18
1+10	12	
1+11		27
1+13	6	
1+15	8	
1+15	15	
1+18	15	
1+21	14	
1+24	6	
1+24	6	
1+26	9	
1+32	7	
1+34	14	
1+36	15	
1+37	8	
1+39	8	
1+40		19
1+40	14	
1+40		26
1+46	8	
1+46	7	
1+48	13	
1+49		21
1+52	9	
1+53	6	
1+56	7	
1+59	12	
1+61	6	
1+66		24
1+73	10	
1+77	7	
1+77		16
1+81	7	
<b>SUBTOTAL</b>	<b>399</b>	<b>294</b>
<b>SUBTOTAL FROM PREVIOUS</b>	<b>368</b>	<b>301</b>
<b>TOTAL</b>	<b>767</b>	<b>595</b>

**SEEDING SCHEDULE**

LOCATION	SEEDING, CLASS 2A (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	TEMPORARY EROSION CONTROL SEEDING (POUND)
ROADWAY						
CHANNEL	0.10	9	9	9	0.10	10
WEST WORK AREA	0.13	11.7	11.7	11.7	0.13	13
RIPRAP AREA						3
<b>SUBTOTAL</b>	<b>0.23</b>	<b>20.7</b>	<b>20.7</b>	<b>20.7</b>	<b>0.23</b>	<b>26</b>
<b>PAY TOTAL</b>	<b>0.25</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>0.25</b>	<b>30</b>

**DRAINAGE SCHEDULE**

LOCATION	PAVED DITCH REMOVAL (FT)	BOX CULVERTS TO BE CLEANED (FT)
STATION		
STATION		
STA 1741+28		735
STA 10+00 TO STA 10+34	34	
<b>TOTAL</b>	<b>34</b>	<b>735</b>

**EROSION CONTROL SCHEDULE**

LOCATION	EROSION CONTROL BLANKET (SQ YD)	TEMPORARY DITCH CHECK (EACH)	PERIMETER EROSION BARRIER (FOOT)	INLET AND PIPE PROTECTION (EACH)
STATION TO STATION				
STATION TO STATION				
STA 0+00				1
STA 0+00 TO STA 1+70	392.6			
STA 0+14 TO STA 1+70	571.2			
STA 0+29 TO STA 1+58			157.1	
STA 0+48 TO STA 1+85			117.9	
STA 500+20 TO STA 500+42	82.9	16		
STA 10+00 TO STA 20+35	112.2			
STA 20+00 TO STA 20+36		36		
STA 30+62 TO STA 31+10		72		
STA 30+62 TO STA 30+86	43.6			
<b>SUBTOTAL</b>	<b>1202.6</b>	<b>124</b>	<b>275.0</b>	<b>1</b>
<b>PAY TOTAL</b>	<b>1203</b>	<b>124</b>	<b>275</b>	<b>1</b>

**FENCE SCHEDULE**

LOCATION	WOVEN WIRE FENCE, 4' (FT)	FENCE REMOVAL (FT)
STATION TO STATION		
STATION TO STATION		
STA 10+09 TO STA 10+29	71.1	83.6
STA 10+29 TO STA 1741+79.19	31.4	
STA 1742+17 TO STA 0+46	62.8	120.0
STA 0+46 TO STA 1+17	76.2	
STA 1+17 TO STA 1+62	19.6	
<b>SUBTOTAL</b>	<b>261.1</b>	<b>203.6</b>
<b>PAY TOTAL</b>	<b>262</b>	<b>204</b>



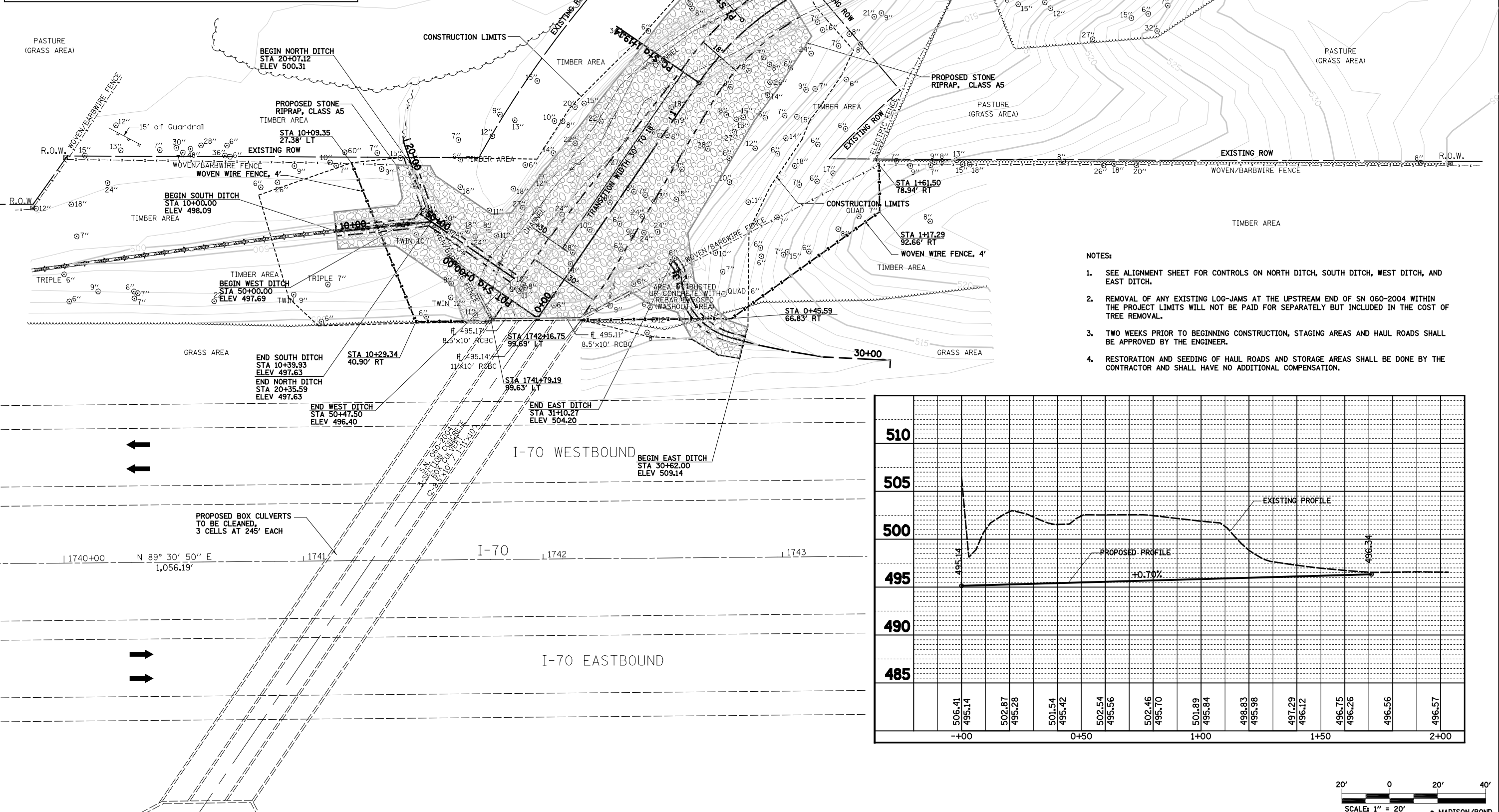
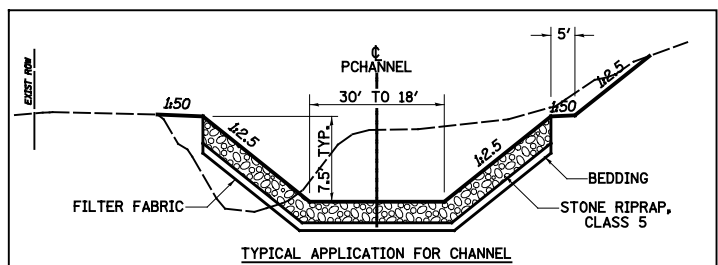
USER NAME = betsy  
 DESIGNED - ESW  
 DRAWN - LEC  
 CHECKED - BRM  
 DATE - 01/13/15  
 PLOT SCALE = 48.0000' / in.  
 PLOT DATE = 8/10/2015

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

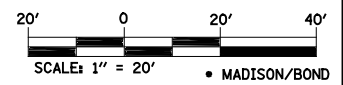
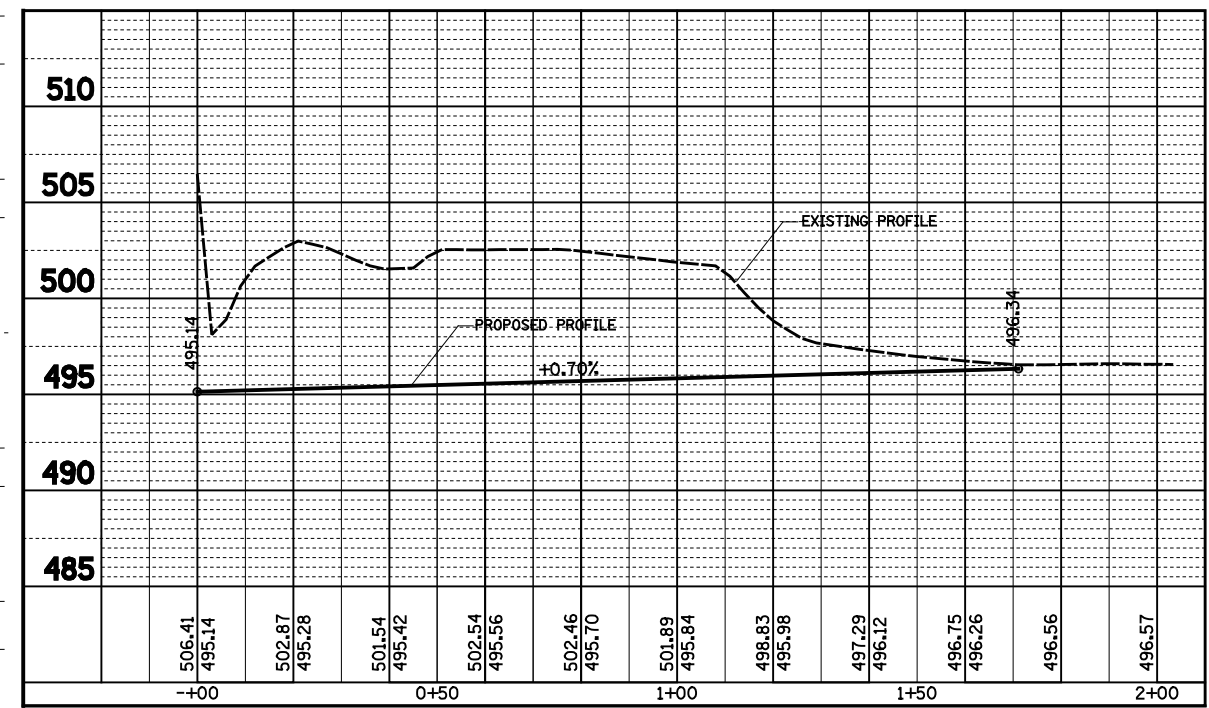
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULES  
 CHANNEL RE-ESTABLISHMENT  
 SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.T. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 70 60-(13,14,15)RS-3 \* 226 115  
 CONTRACT NO. 76F94  
 ILLINOIS FED. AID PROJECT



- NOTES:
1. SEE ALIGNMENT SHEET FOR CONTROLS ON NORTH DITCH, SOUTH DITCH, WEST DITCH, AND EAST DITCH.
  2. REMOVAL OF ANY EXISTING LOG-JAMS AT THE UPSTREAM END OF SN 060-2004 WITHIN THE PROJECT LIMITS WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF TREE REMOVAL.
  3. TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION, STAGING AREAS AND HAUL ROADS SHALL BE APPROVED BY THE ENGINEER.
  4. RESTORATION AND SEEDING OF HAUL ROADS AND STORAGE AREAS SHALL BE DONE BY THE CONTRACTOR AND SHALL HAVE NO ADDITIONAL COMPENSATION.



USER NAME = betsy	DESIGNED - ESW	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - LEC	REVISED -
PLOT DATE = 8/10/2015	CHECKED - BRM	REVISED -
	DATE - 01/13/15	REVISED -

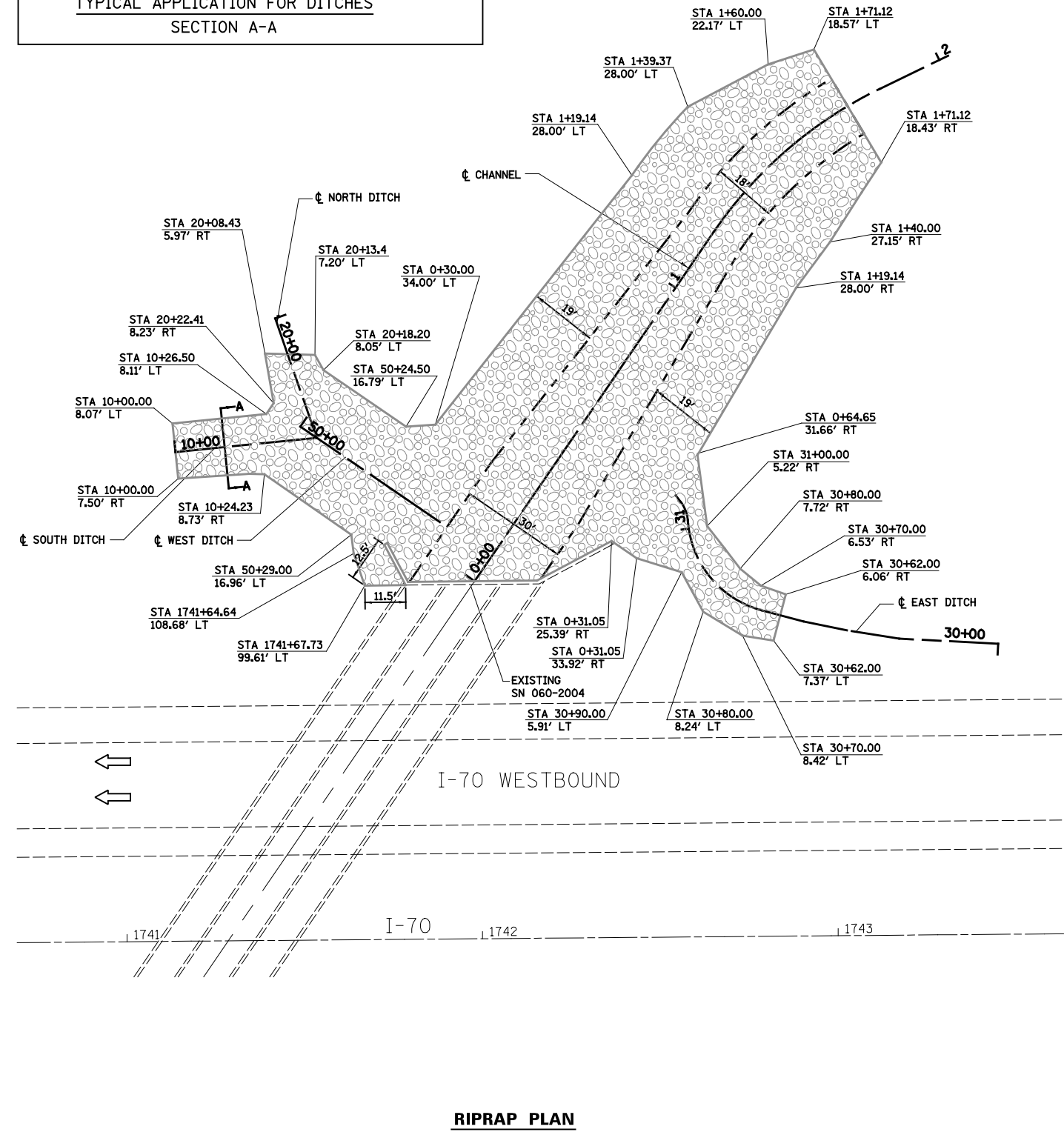
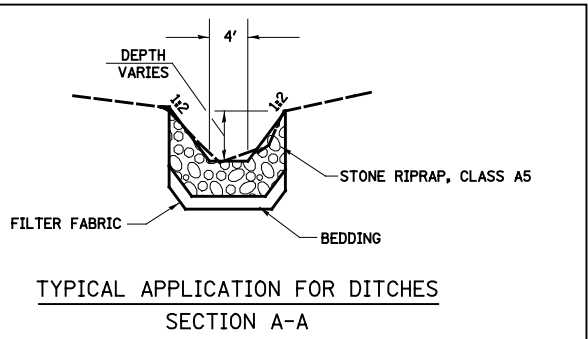
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
CHANNEL RE-ESTABLISHMENT

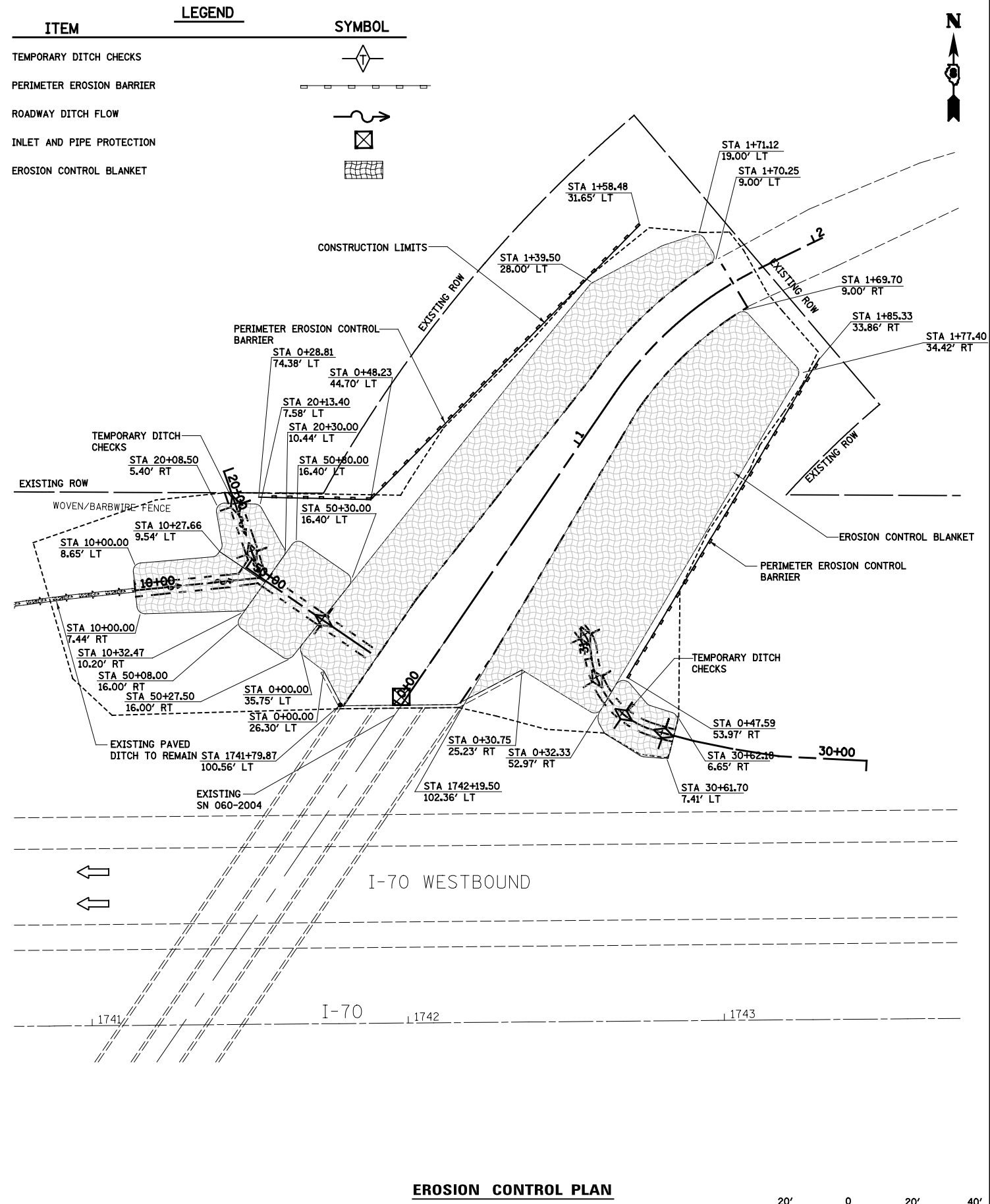
SCALE: 1"=20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	116
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				





**RIPRAP PLAN**



**EROSION CONTROL PLAN**



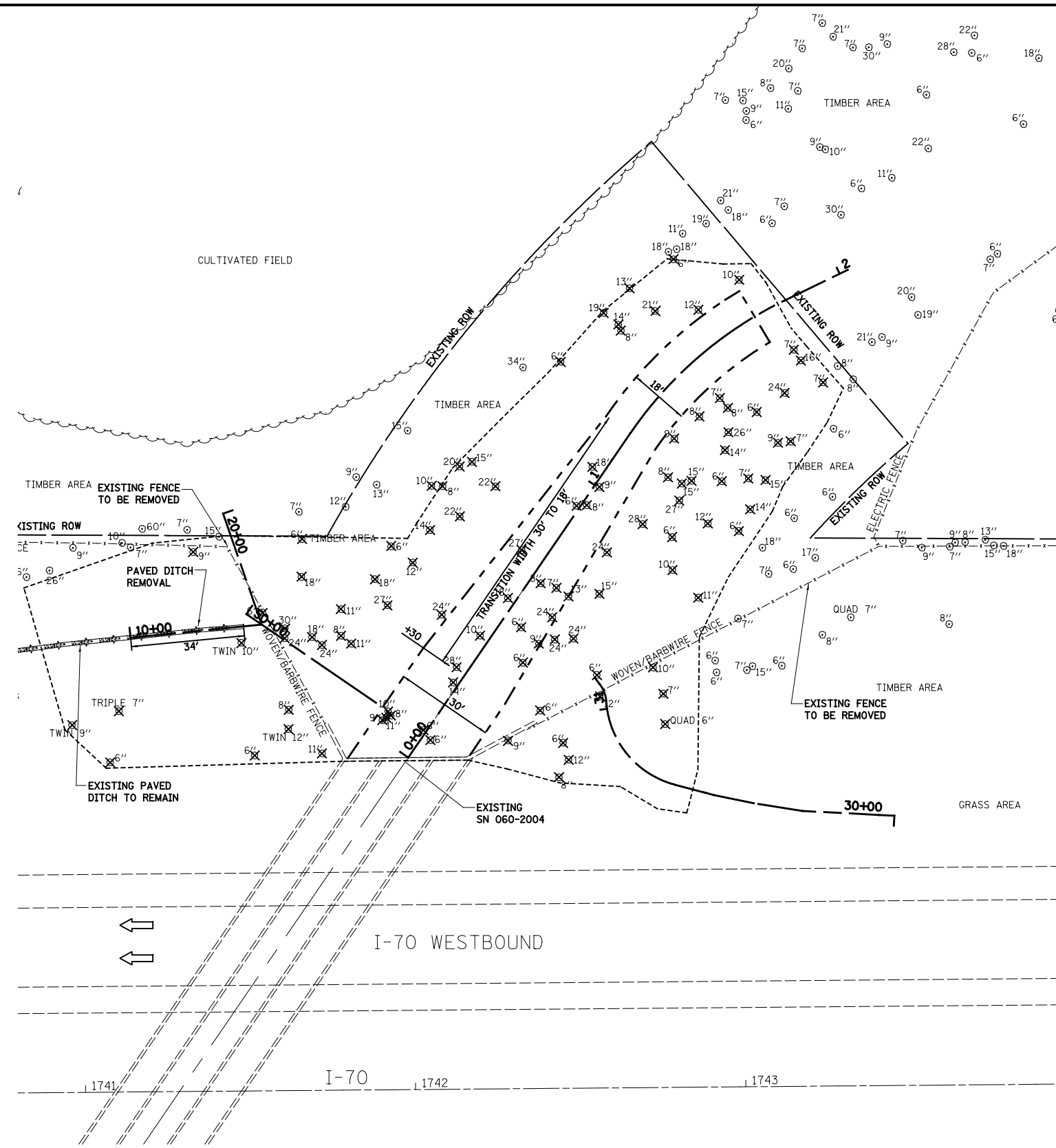
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PLOT SCALE = 48.0000' / in.	DRAWN - LEC	REVISED -
PLOT DATE = 8/10/2015	CHECKED - BRM	REVISED -
	DATE - 01/13/15	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

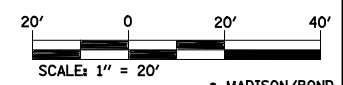
RIPRAP DETAILS AND EROSION CONTROL  
CHANNEL RE-ESTABLISHMENT  
SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	117
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND



**REMOVAL PLAN**



• MADISON/BOND



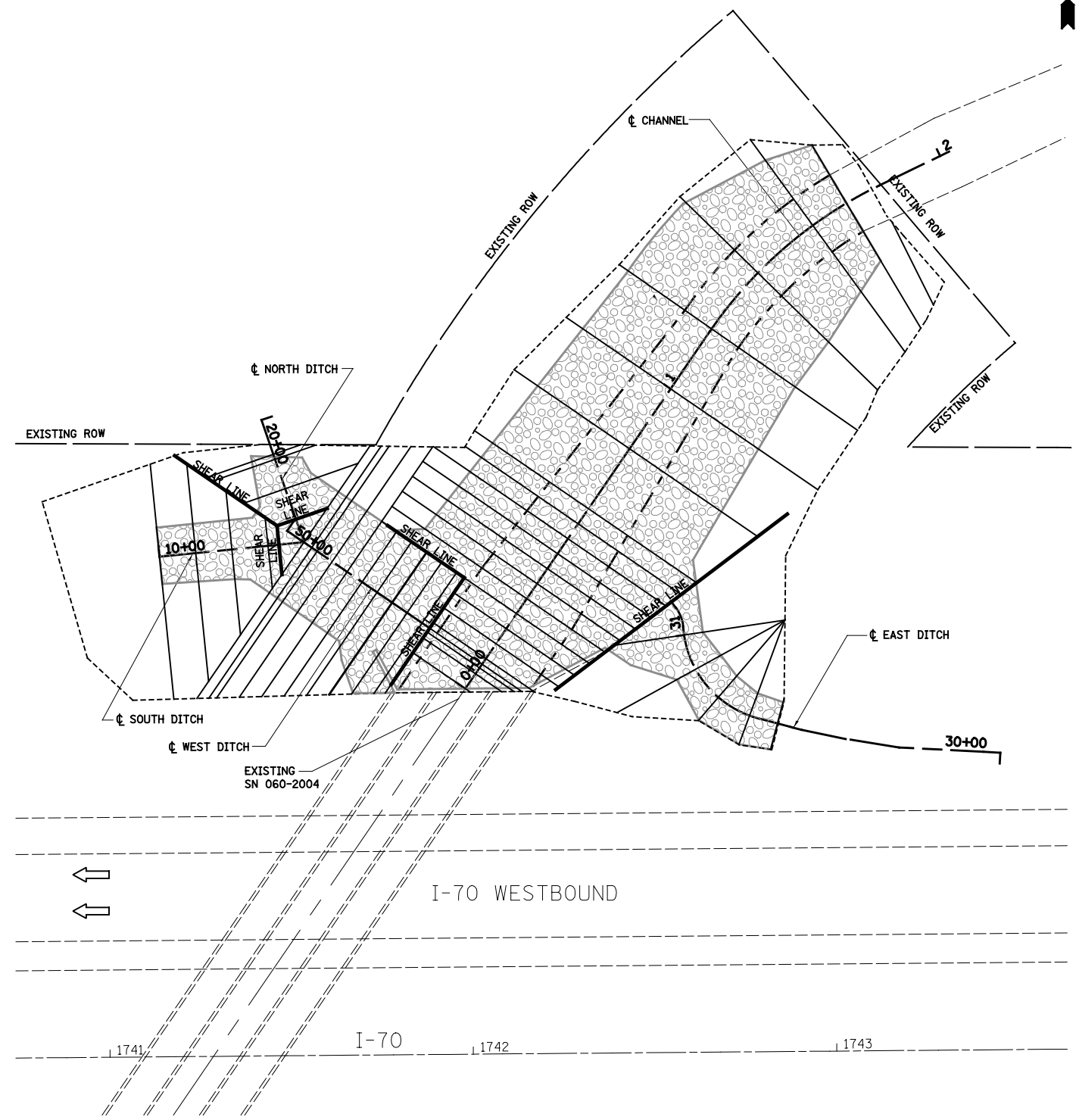
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PLOT DATE = 8/10/2015	DATE - 01/13/15	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

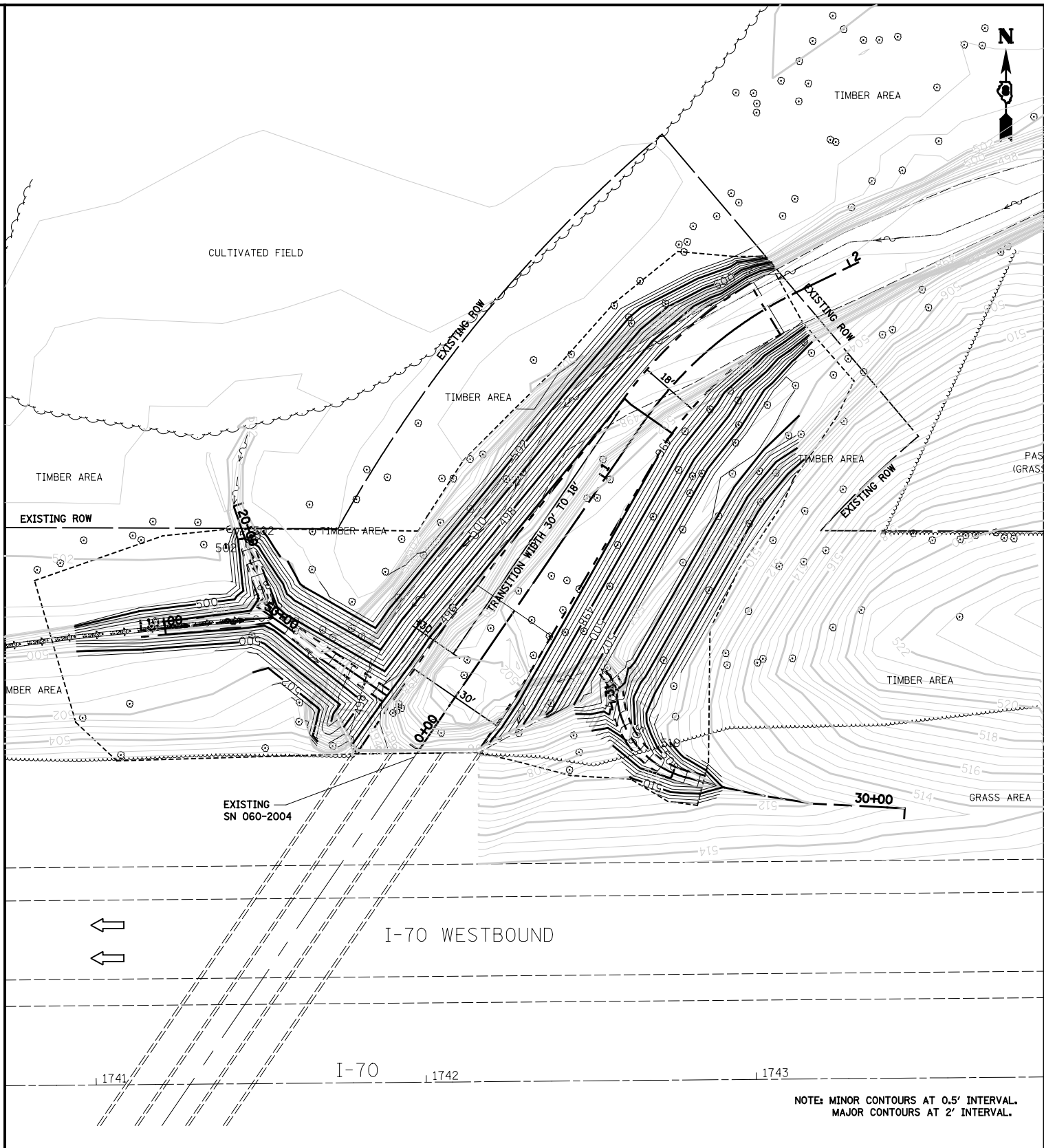
**REMOVAL  
CHANNEL RE-ESTABLISHMENT**

SCALE: 1"=20' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	118
<b>CONTRACT NO. 76F94</b>				
ILLINOIS FED. AID PROJECT				

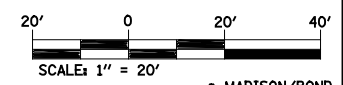


**SHEAR LINES PLAN**



**GRADING PLAN**

NOTE: MINOR CONTOURS AT 0.5' INTERVAL.  
MAJOR CONTOURS AT 2' INTERVAL.



• MADISON/BOND



USER NAME = betsy	DESIGNED - ESW	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - LEC	REVISED -
PLOT DATE = 8/10/2015	CHECKED - BRM	REVISED -
	DATE - 01/13/15	REVISED -

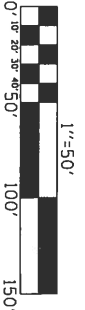
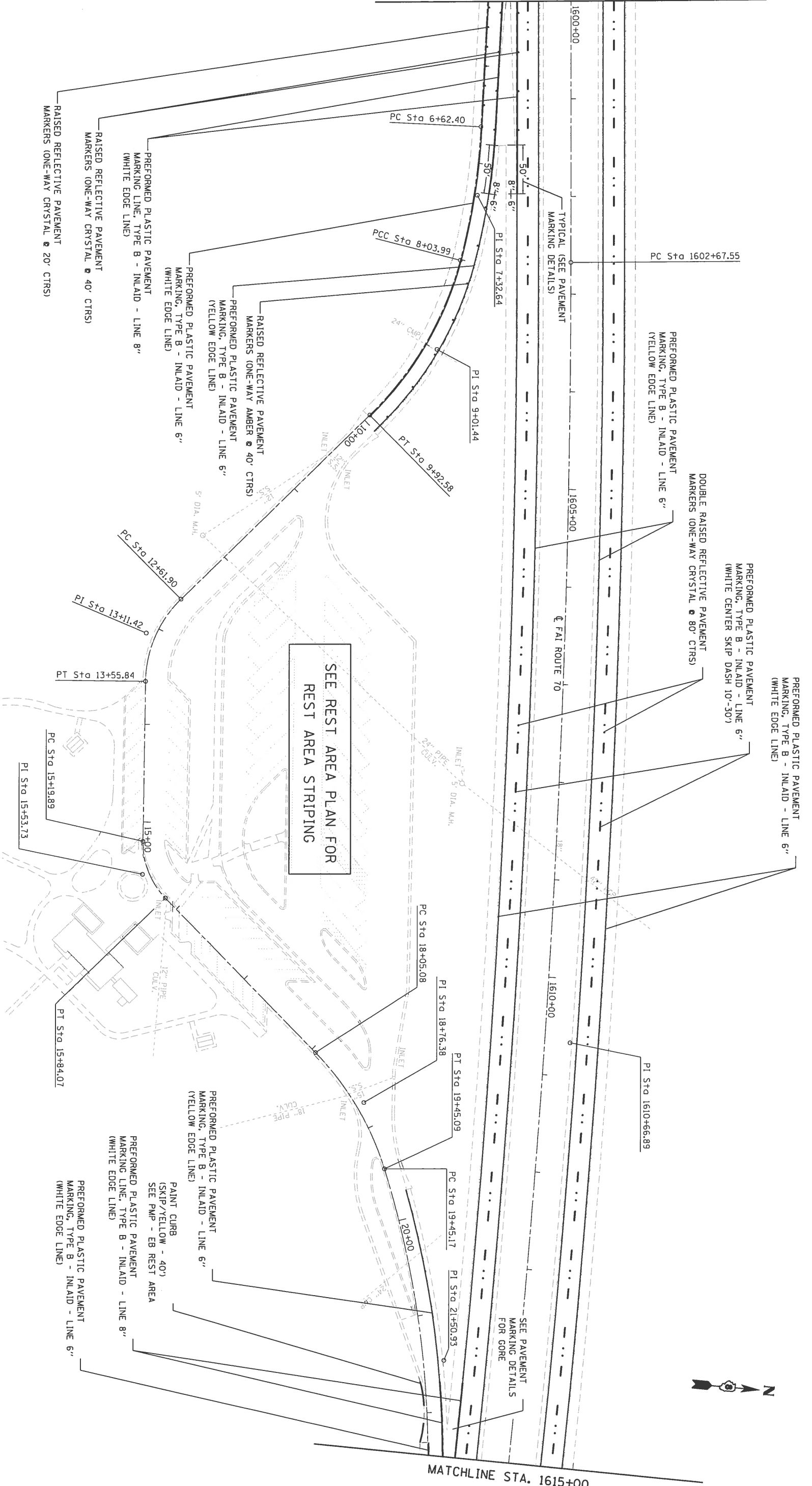
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SHEAR LINES AND GRADING CHANNEL RE-ESTABLISHMENT</b>	
SCALE: 1"=20'	SHEET 7 OF 7 SHEETS STA. TO STA.

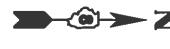
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	119
<b>CONTRACT NO. 76F94</b>				
ILLINOIS FED. AID PROJECT				



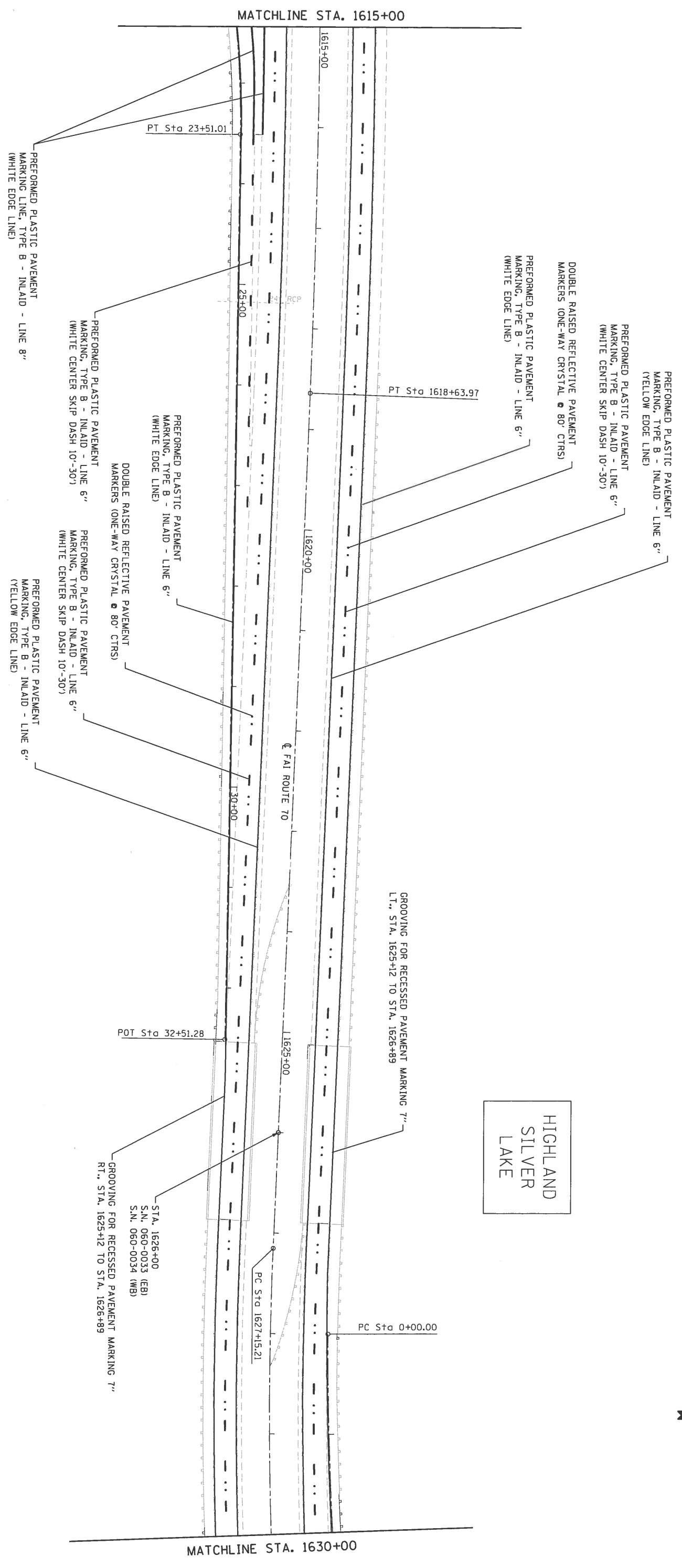
MATCHLINE STA. 1600+00



FILE NAME =	USER NAME = Murr@JDA	DESIGNED -	REVISIED -	<p align="center"><b>STATE OF ILLINOIS</b></p> <p align="center"><b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>PAVEMENT MARKING PLAN</b></p> <p align="center">FAI 70 (1-70)</p>	<p>SCALE: 1"=50'</p> <p>SHEET OF SHEETS</p> <p>STA. 1600+00 TO STA. 1615+00</p>	F.A.I. SECTION	COUNTY	TOTAL SHEET
PAV\ILL08\FED\IND\TEC\illinois\gen\p\1001\Documents\1001\Office\A\service\B\p\projects\1001\FOR\AMND\A\ENH\enh\en\ED\TECONSUL\TANT\REVISIONS\REVISED\REVISED	DESIGNED BY: JAM	REVISIED BY: JAM	SECTION				COUNTY	TOTAL SHEET	
PLANT SCALE = 1/8"=1'-0"	CHECKED -	REVISIED -	NO.				NO.	NO.	
DATE = 8/3/2016	DATE -	REVISIED -	CONTRACT NO. 76F94	ILLINOIS FED. AID PROJECT					



HIGHLAND SILVER LAKE



MATCHLINE STA. 1615+00

MATCHLINE STA. 1630+00

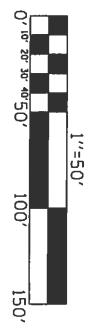
FAI ROUTE 70

GROOVING FOR RECESSED PAVEMENT MARKING 7\"/>

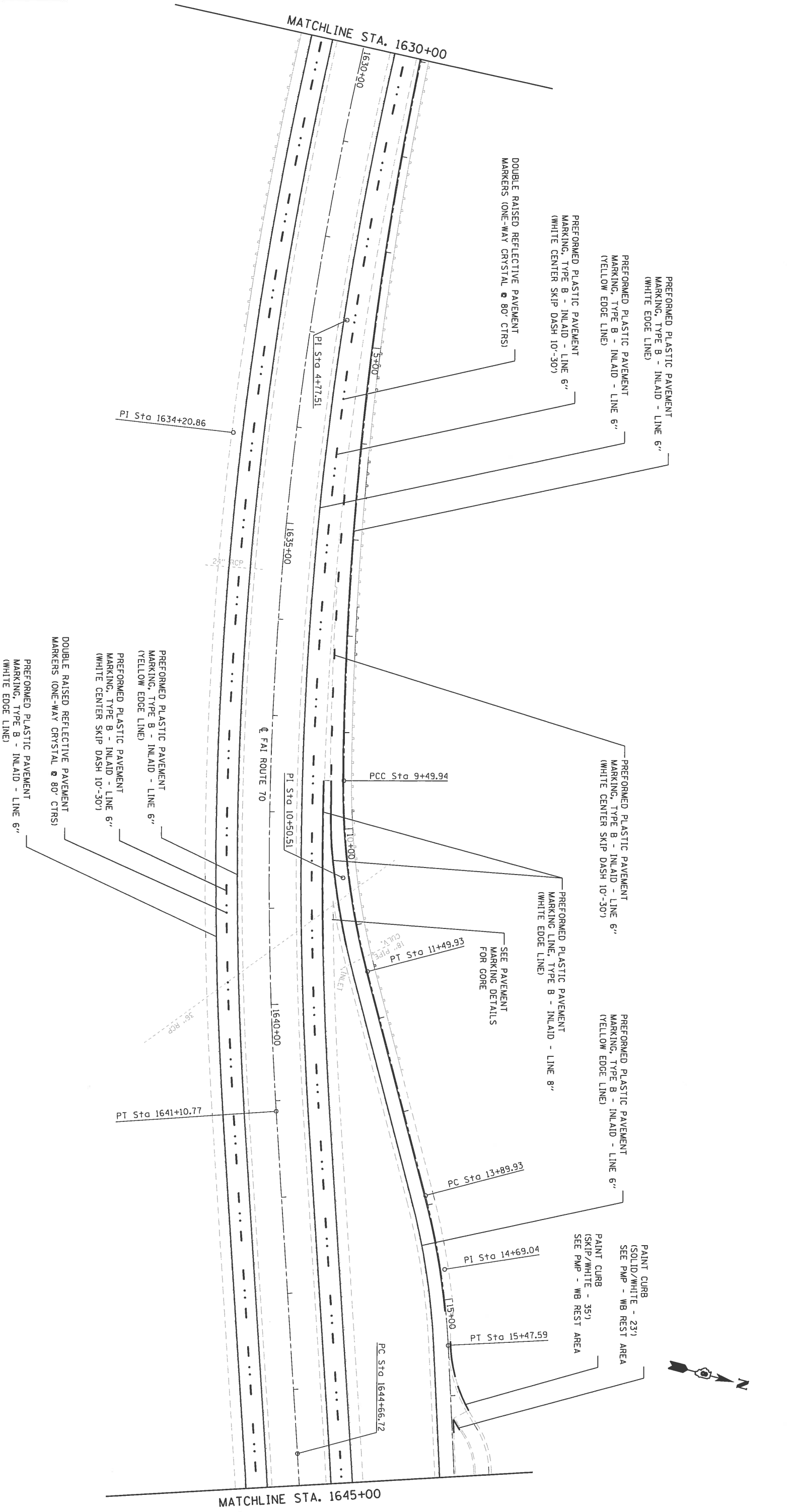
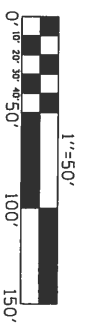
GROOVING FOR RECESSED PAVEMENT MARKING 7\"/>

STA. 1626+00  
S.N. 060-0033 (EB)  
S.N. 060-0034 (WB)

FILE NAME =	USER NAME =	DESIGNED =	REVISOR =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 1615+00	TO STA. 1630+00	PAVEMENT MARKING PLAN FAI 70 (1-70)	F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	CONTRACT NO.
...	...	...	...									70	60-11314,15185-3	MADISON/BOND	226	76F94
...	...	...	...													



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USER NAME =	M...		
DESIGNED -	CHECKED -	DATE -	REVISED -
PLT SCALE = 1/80,0000' / in.	CHECKED -	DATE -	REVISED -
PLT DATE = 5/4/2016	CHECKED -	DATE -	REVISED -
<b>STATE OF ILLINOIS</b>			
<b>DEPARTMENT OF TRANSPORTATION</b>			
SCALE: 1"=50'	SHEET	OF	SHEETS
			STA. 1630+00 TO STA. 1645+00
<b>PAVEMENT MARKING PLAN</b>			
<b>FAI 70 (1-70)</b>			
F.A.I. RLE.	SECTION	COUNTY	TOTAL SHEET NO.
70	60-13,14,15RS-3		226
			CONTRACT NO. 76F94
MADISON/BOND			



MATCHLINE STA. 1645+00

MATCHLINE STA. 1630+00

FAI ROUTE 70

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')

DOUBLE RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 8"  
(WHITE EDGE LINE)

SEE PAVEMENT  
MARKING DETAILS  
FOR CORE

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)

PAINT CURB  
(SOLID/WHITE - 23")  
SEE PMP - WB REST AREA

PAINT CURB  
(SKIP/WHITE - 35")  
SEE PMP - WB REST AREA

DOUBLE RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')

PI Sta 1634+20.86

PI Sta 4+77.51

PCC Sta 9+49.94

PI Sta 10+50.51

PT Sta 11+49.93

PT Sta 1641+10.77

PC Sta 13+89.93

PI Sta 14+69.04

PT Sta 15+47.59

PC Sta 1644+66.72

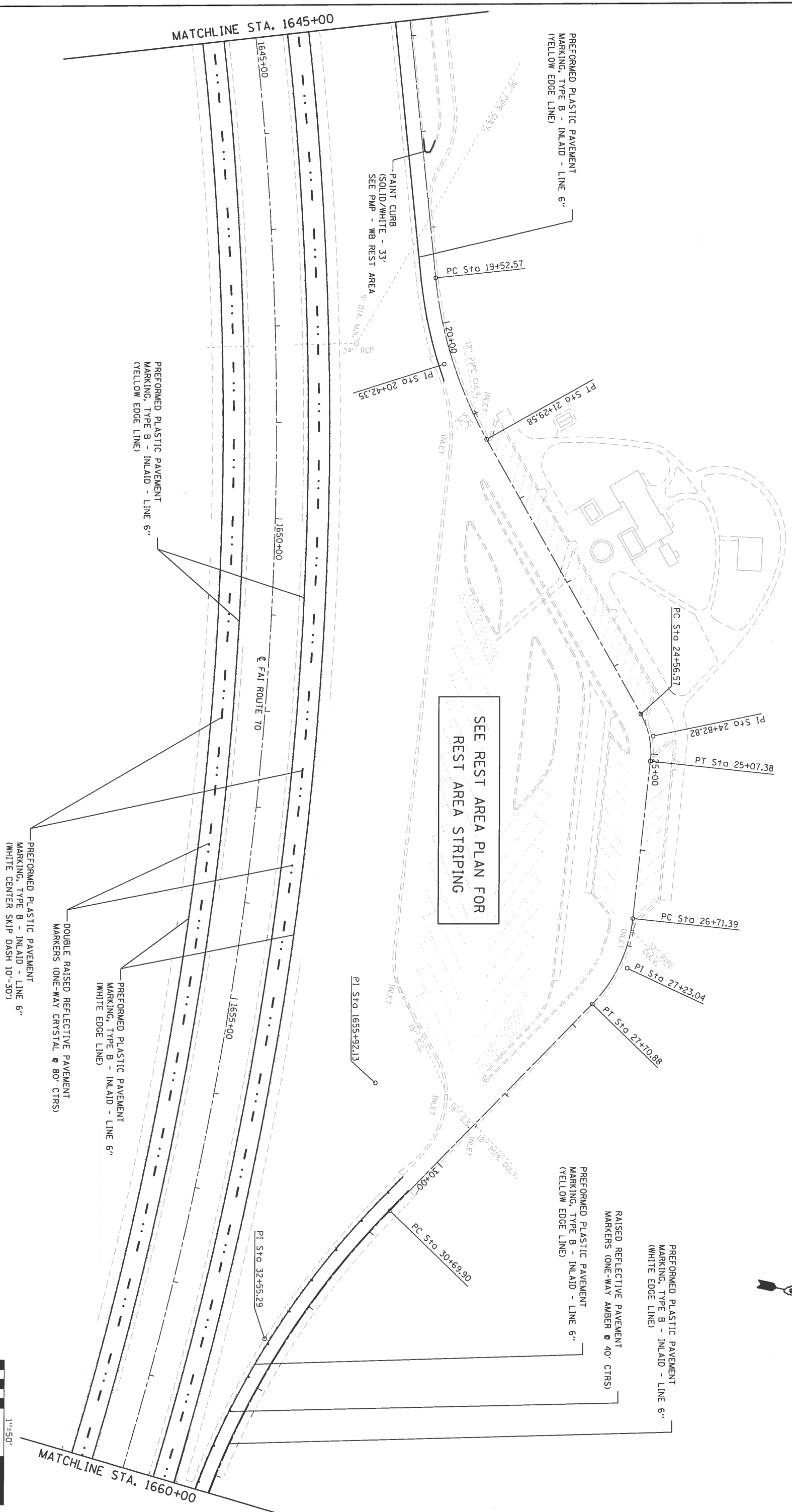
24" RCP

36" RCP

INLET

18" CURB

EXIST. CURVE RAWBC6



SEE REST AREA PLAN FOR  
REST AREA STRIPING

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')

DOUBLE RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)

RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY AMBER @ 40' CTRS)

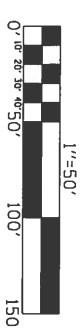
PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)

PAINT CURB  
(SOLID/WHITE - 33'  
SEE PMP - WB REST AREA

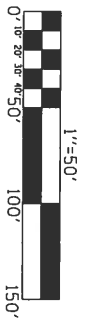
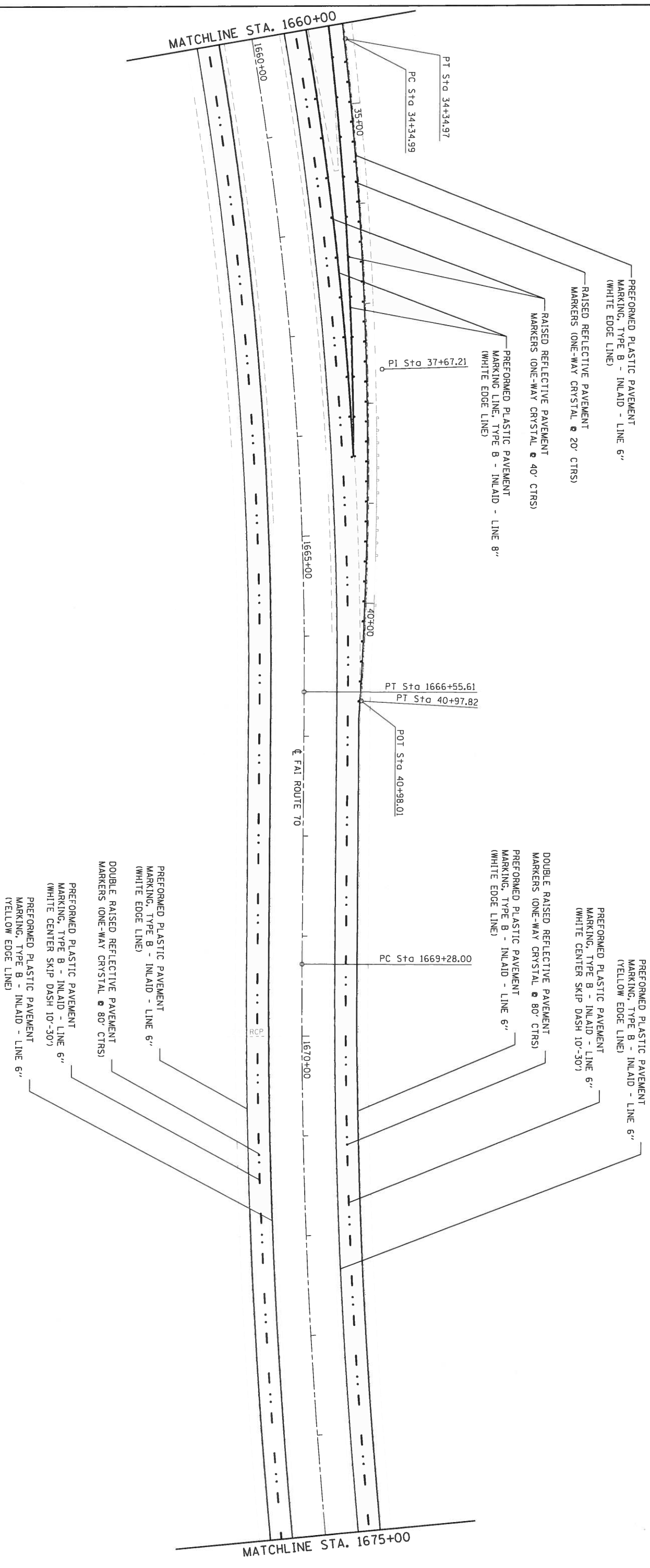
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 1645+00	TO STA. 1660+00	FAI RTE	SECTION	COUNTY	TOTAL SHEET NO.
PROJECT NO. =	PROJECT NAME =	CHECKED -	REVISED -		PAVEMENT MARKING PLAN	FAI 70 (1-70)							60-113.14.15MS-3	
DATE =	DATE =	DATE =	DATE =											CONTRACT NO. 76F94



MATCHLINE STA. 1660+00

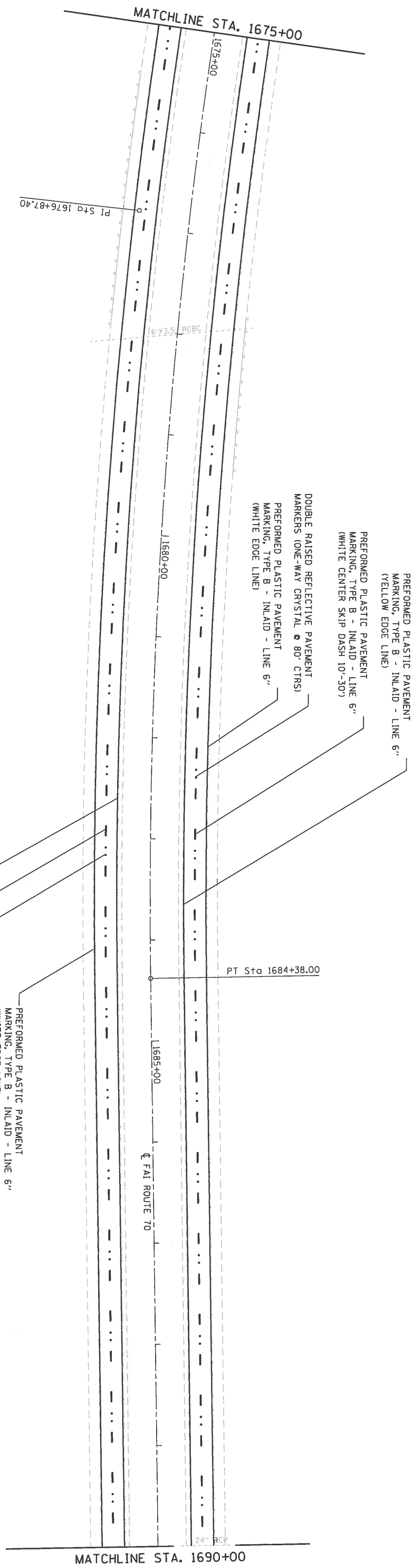
MATCHLINE STA. 1645+00



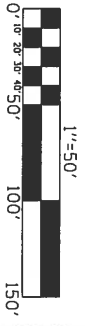


FILE NAME =	USER NAME =	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: 1"=50'	SHEET	PAVEMENT MARKING PLAN	FAI RTE. 70	SECTION	COUNTY	TOTAL SHEET NO.
g:\11\0848\BID\ITG\1101\1014\gwp\FM\DOT\Documents\DOT Office\Drawings\Project\BYP\0848\JOB\76F94\1660-1675\1660-1675.dgn	MURRAY, DAVID	CHEN, MING	CHEN, MING	DEPARTMENT OF TRANSPORTATION	1"=50'	1	PAVEMENT MARKING PLAN	70	60-131,415R5-3	ADAMS	226
PLT SCALE = 1/8"=1'-0"	CHECKED -	DATE -	REVISOR -			OF	SHEETS	STA. 1660+00			125
PLT DATE = 5/4/2016								TO STA. 1675+00			CONTRACT NO. 76F94

MADISON/BOND  
ILLINOIS FED. AID PROJECT



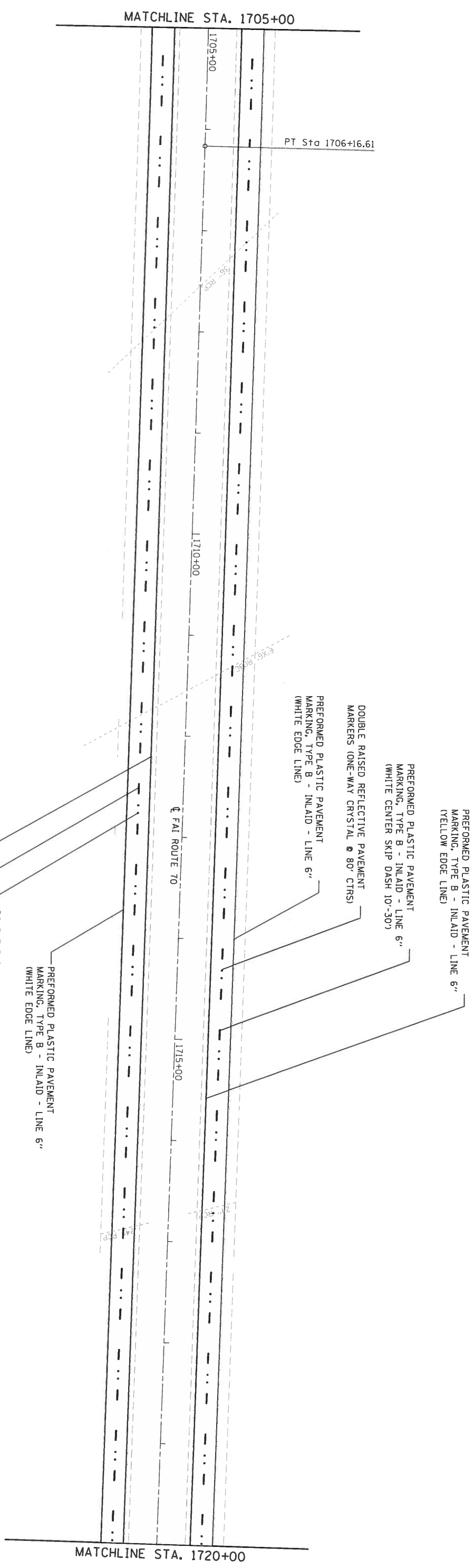
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')
- DOUBLE RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)
- DOUBLE RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE EDGE LINE)
- DOUBLE RAISED REFLECTIVE PAVEMENT  
MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(WHITE CENTER SKIP DASH 10'-30')
- PERFORMED PLASTIC PAVEMENT  
MARKING, TYPE B - INLAID - LINE 6"  
(YELLOW EDGE LINE)



FILE NAME =	USER NAME =	DESIGNED =	REVISOR =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 1675+00	TO STA. 1690+00	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
PROJECT =	PROJECT =	CHECKED =	REVISOR =											
PLT DATE = 5/4/2016	DATE =	DATE =	DATE =											

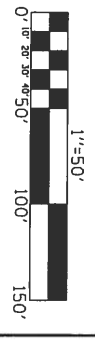
MADISON/BOND  
CONTRACT NO. 76F94

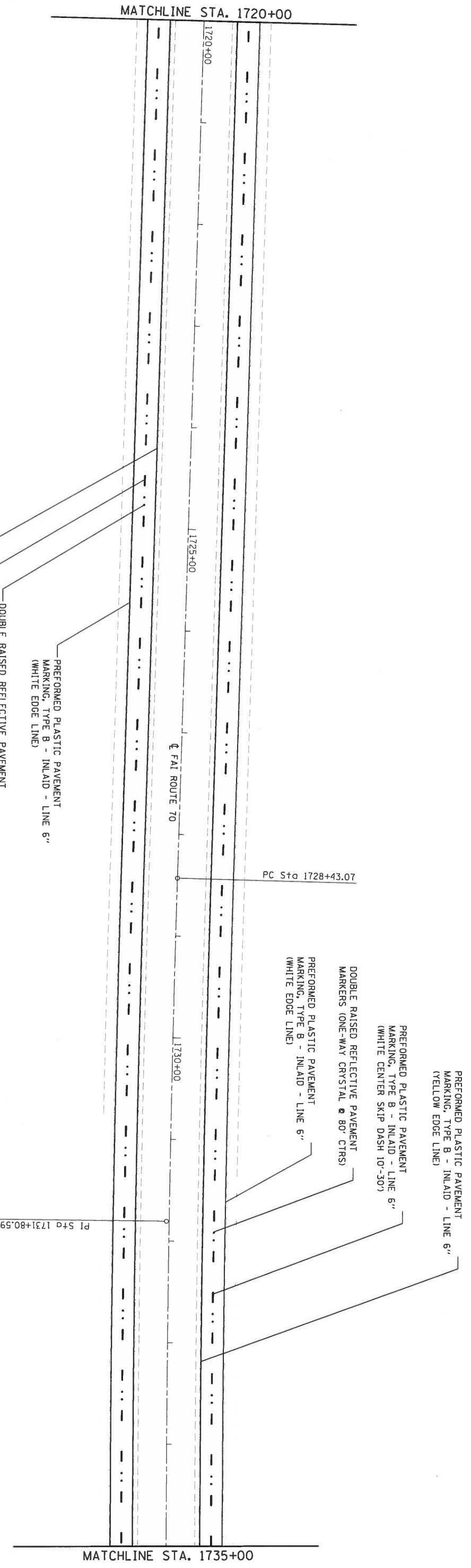




- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (YELLOW EDGE LINE)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')
- DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (YELLOW EDGE LINE)
- DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (YELLOW EDGE LINE)

FILE NAME =	USER NAME =	DESIGNED	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SCALE: 1"=50' SHEET OF SHEETS <b>PAVEMENT MARKING PLAN</b> <b>FAI 70 (1-70)</b> STA. 1705+00 TO STA. 1720+00	F.A.I. RTE. TO	SECTION	COUNTY	TOTAL SHEET NO.
Default	9/4/2016	CHECKED	REVISED			60-113.14.15RS-3	ILLINOIS	226	128





PREFORMED PLASTIC PAVEMENT  
 MARKING, TYPE B - INLAID - LINE 6"  
 (WHITE EDGE LINE)

PREFORMED PLASTIC PAVEMENT  
 MARKING, TYPE B - INLAID - LINE 6"  
 (WHITE CENTER SKIP DASH 10'-30')

PREFORMED PLASTIC PAVEMENT  
 MARKING, TYPE B - INLAID - LINE 6"  
 (YELLOW EDGE LINE)

DOUBLE RAISED REFLECTIVE PAVEMENT  
 MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT  
 MARKING, TYPE B - INLAID - LINE 6"  
 (WHITE CENTER SKIP DASH 10'-30')

DOUBLE RAISED REFLECTIVE PAVEMENT  
 MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT  
 MARKING, TYPE B - INLAID - LINE 6"  
 (WHITE EDGE LINE)

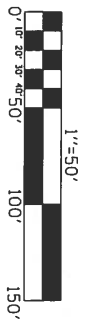
PREFORMED PLASTIC PAVEMENT  
 MARKING, TYPE B - INLAID - LINE 6"  
 (YELLOW EDGE LINE)

FILE NAME =	USER NAME =	DESIGNED -	REVISOR -
path\11.08168101\FG\11101101\gpr\PI1001\01	Murr\gja		
PROJECT: 1101 OFFICE: 01 PROJECT: 81 PROJECT: 001	DATE: 5/3/2016	CHECKED -	REVISOR -
Default			

DEPARTMENT OF ILLINOIS  
 STATE OF ILLINOIS  
 TRANSPORTATION

SCALE: 1"=50'	SHEET	OF	SHEETS

SECTION	COUNTY	TOTAL SHEET NO.
60-13.14.15RS-3		226
CONTRACT NO. 76F94		129



MADISON/BOND

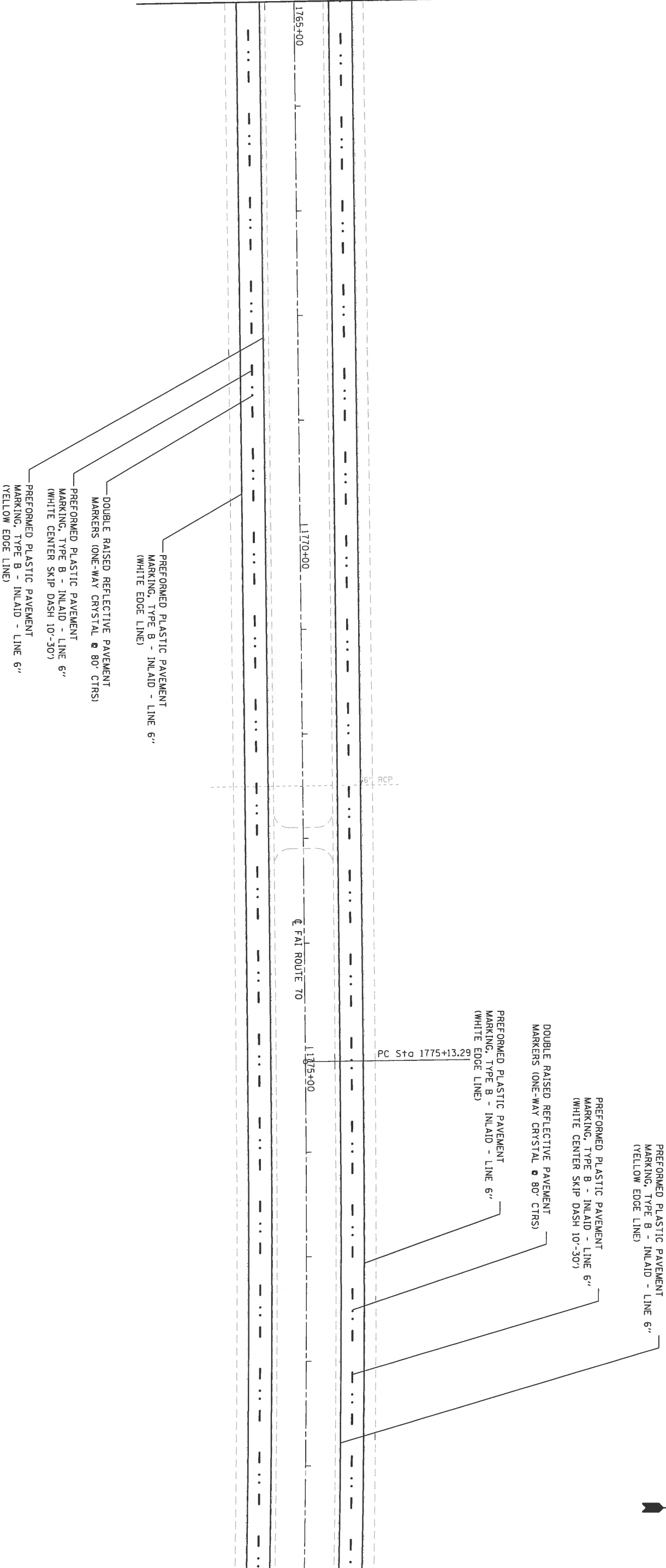






MATCHLINE STA. 1765+00

MATCHLINE STA. 1780+00



DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')

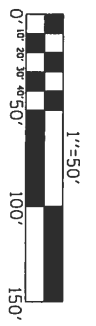
PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (YELLOW EDGE LINE)

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')

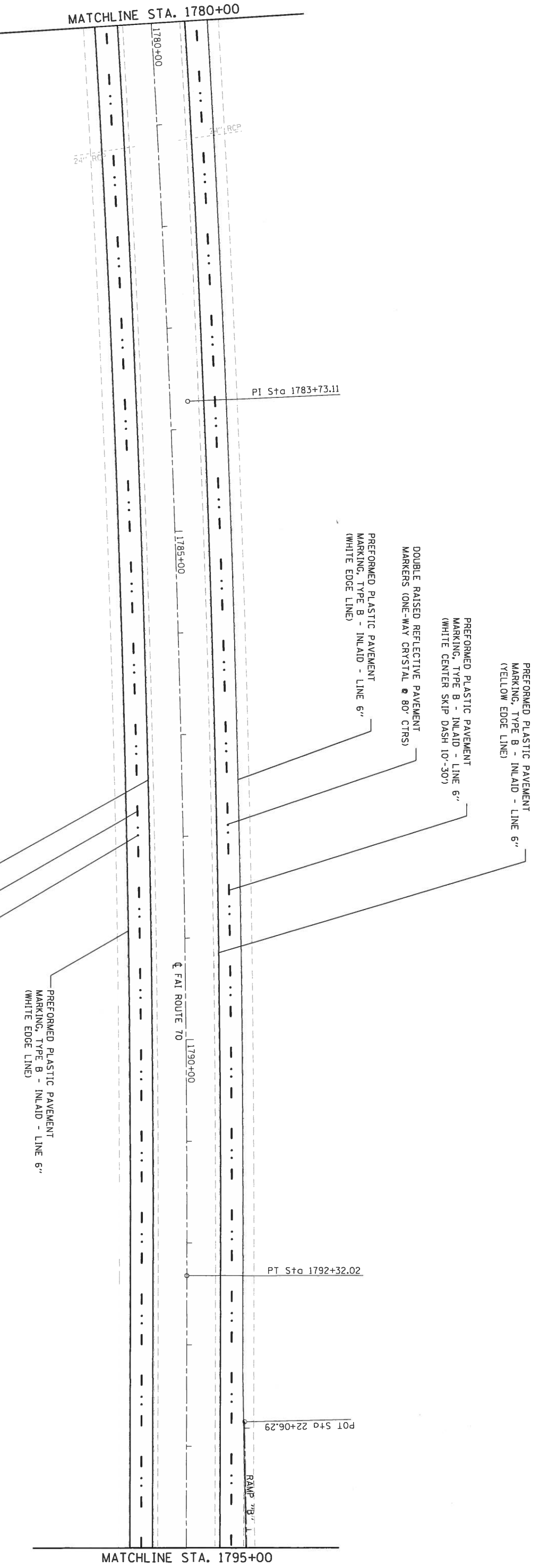
DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL @ 80' CTRS)

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: 1"=50'	SHEET	PAVEMENT MARKING PLAN FAI 70 (1-70)	OF	SHEETS	STA. 1765+00	TO STA. 1780+00
Default	PROJECT =	CHECKED -	REVISED -		FAI 70	SECTION		COUNTY	TOTAL SHEET		
	DATE				60-1131415R3-3	MADISON/BOND		SHEET NO.	NO.		
					CONTRACT NO. 76F94			226	132		





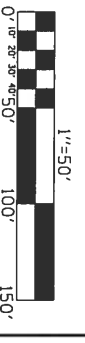


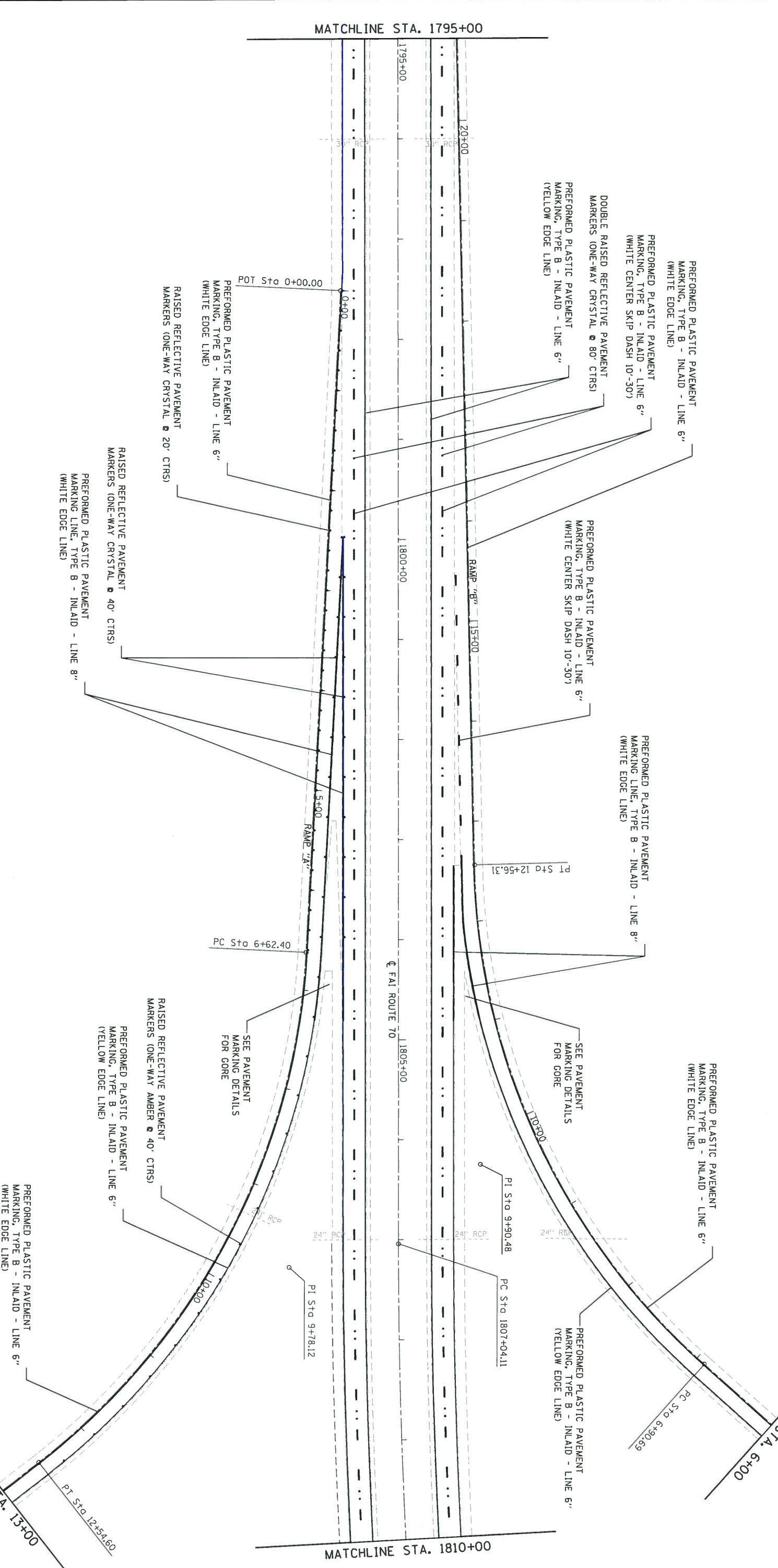
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PROJECT =	PROJECT NO. =	CHECKED -	REVISED -
1780+00	1780+00		
DATE =	DATE =		
5/3/2016	5/3/2016		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**FAI 70 (1-70)**

SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 1780+00	TO STA. 1795+00
SECTION	COUNTY	TOTAL SHEETS	CONTRACT NO. 76F94		
60-13.14.15RS-3		226			
ILLINOIS FED. AID PROJECT					



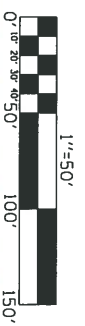


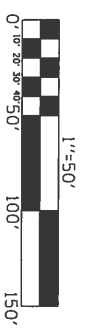
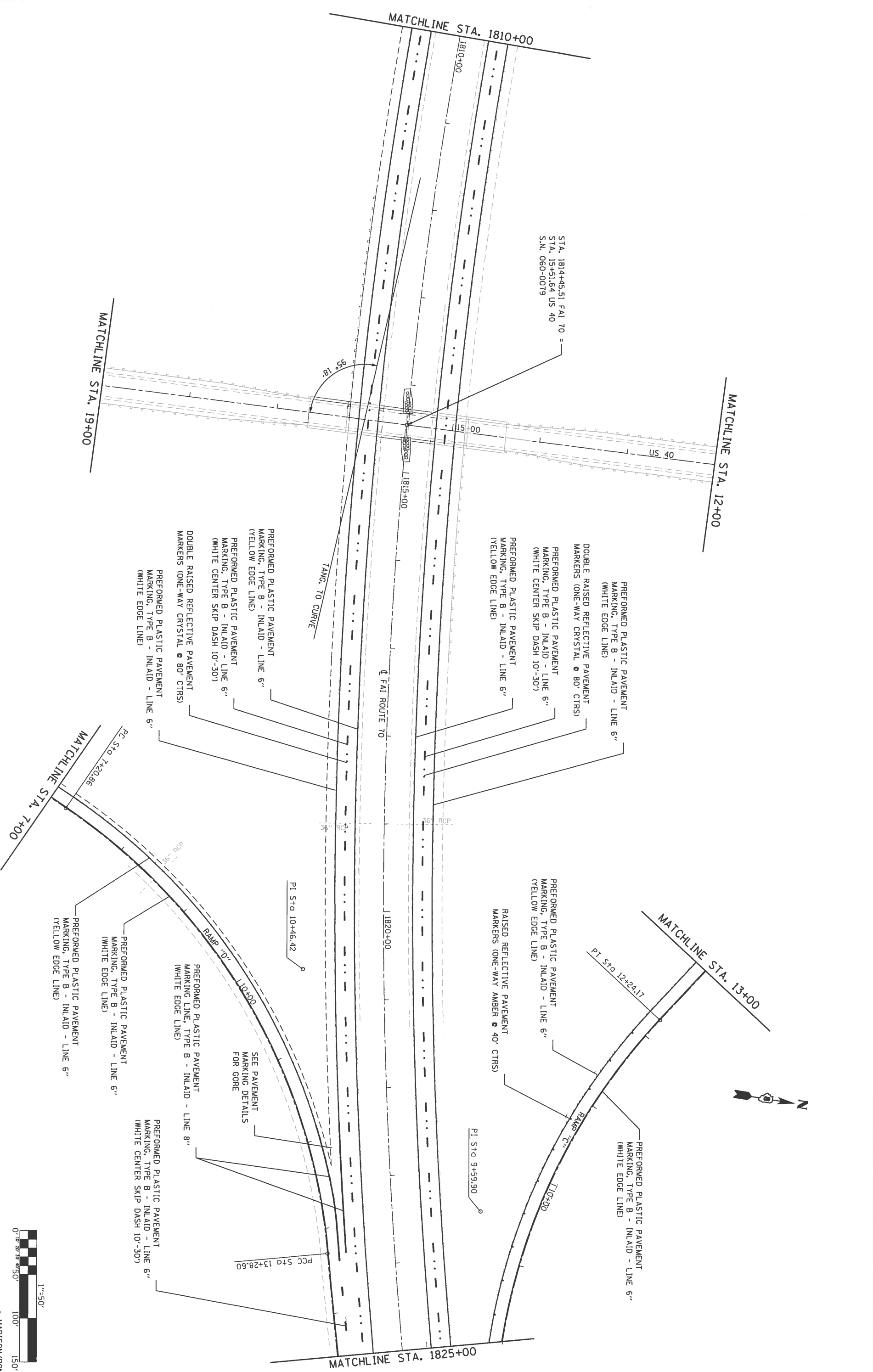
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DATE =	DATE =	DATE =	DATE =

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'  
SHEET OF SHEETS  
STA. 1795+00 TO STA. 1810+00

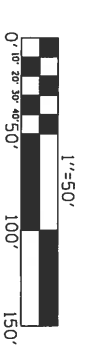
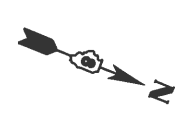
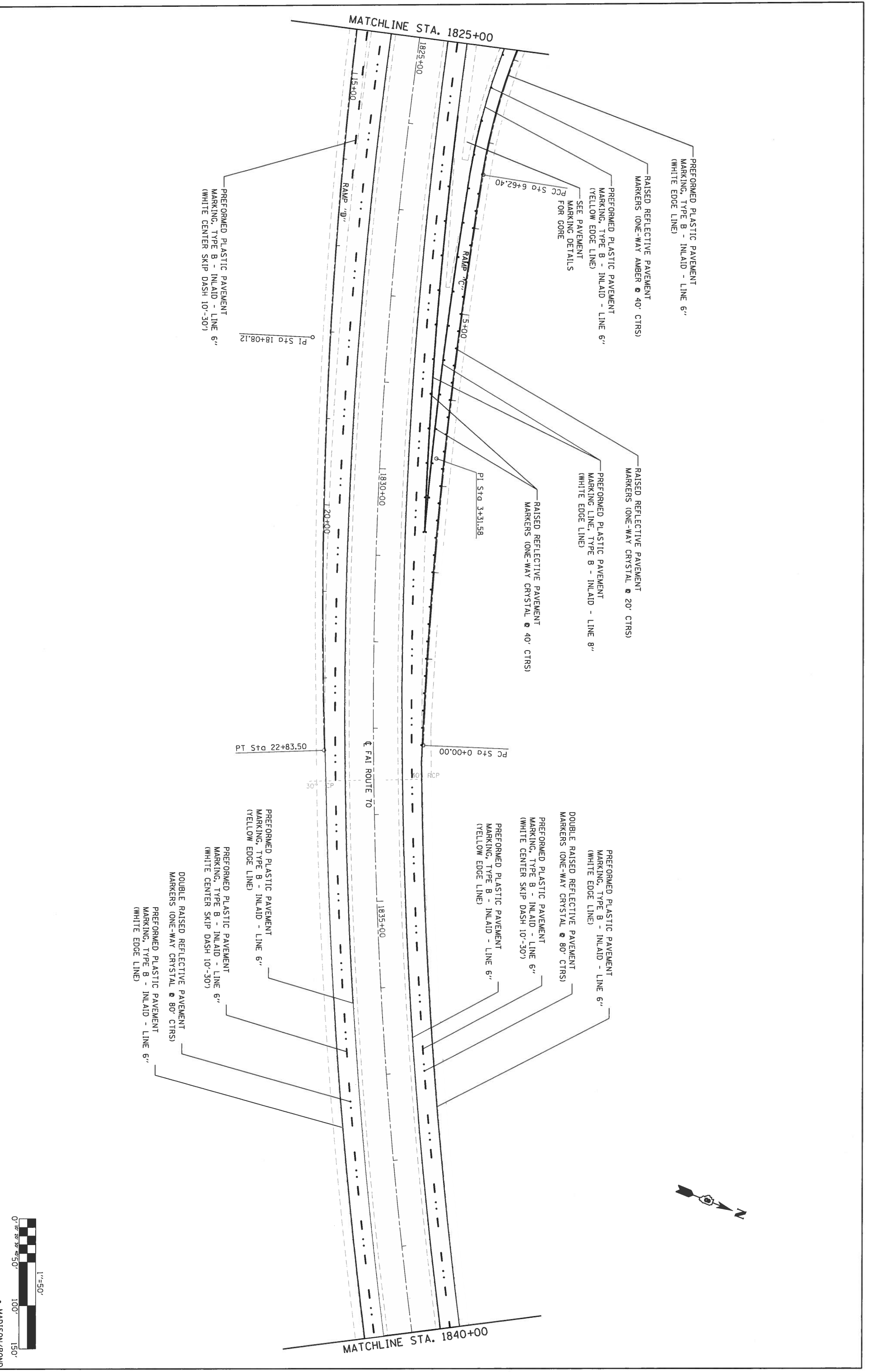
<b>PAVEMENT MARKING PLAN</b>		<b>FAI 70 (1-70)</b>	
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60-131419RS-3	MADISON/BOND	226	134
CONTRACT NO. 76F94		ILLINOIS FED. AID PROJECT	



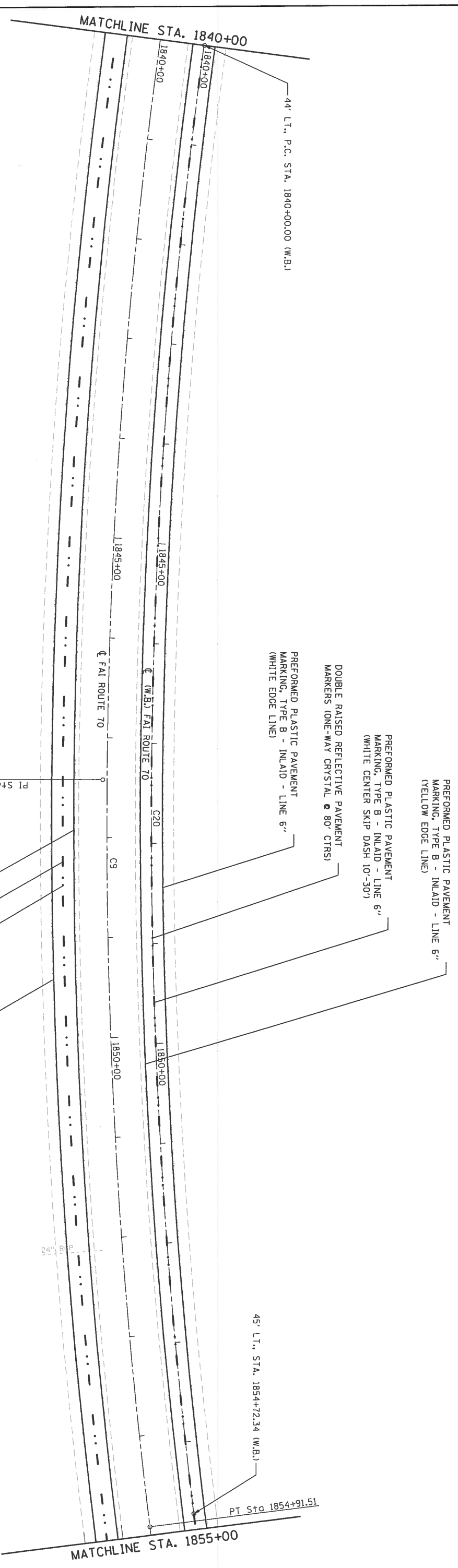


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PLOT SCALE = 1/8" = 1'-0"		CHECKED =		DATE =		REVISED =	
PLOT DATE = 5/6/2016		-		-		-	
<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>				SCALE: 1" = 50'			
				SHEET OF SHEETS STA. 1810+00 TO STA. 1825+00			
<p align="center"><b>PAVEMENT MARKING PLAN</b> <b>FAI 70 (1-70)</b></p>				MADISON/BOND			
				CONTRACT NO. 76F94			
FAI. RTE.	SECTION	COUNTY	TOTAL SHEET NO.				
70	60-13,14,15R5-3		225				

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	SCALE: 1"=50'	<b>PAVEMENT MARKING PLAN</b> FAI 70 (1-70)	F.A.I. RTE. TO	SECTION	COUNTY	TOTAL SHEET NO.
per:\1\0846810\1076\110014\gwp\PI\DOT\Documents\DOT Office\1076\110014\gwp\PI\DOT\DOT\ED\CONSULT\TAN\REVISIONS\0846810-110014-110014-110014-110014.dgn	Murrigla	CHECKED -	REVISED -	SHEET OF SHEETS		FAI 1825+00 TO STA. 1840+00	60-131415RS-3		
Default	PILOT SCALE = 1/8"=1'-0"	DATE	REVISED						CONTRACT NO. 76F94
	PILOT DATE = 5/3/2016								ILLINOIS FED. AID PROJECT



\* MADISON/BOND

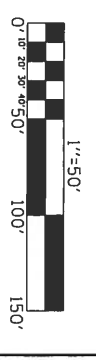


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PROJECT =	PROJECT =	CHECKED -	REVISED -
DATE =	DATE =	DATE =	DATE =

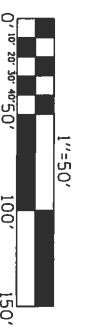
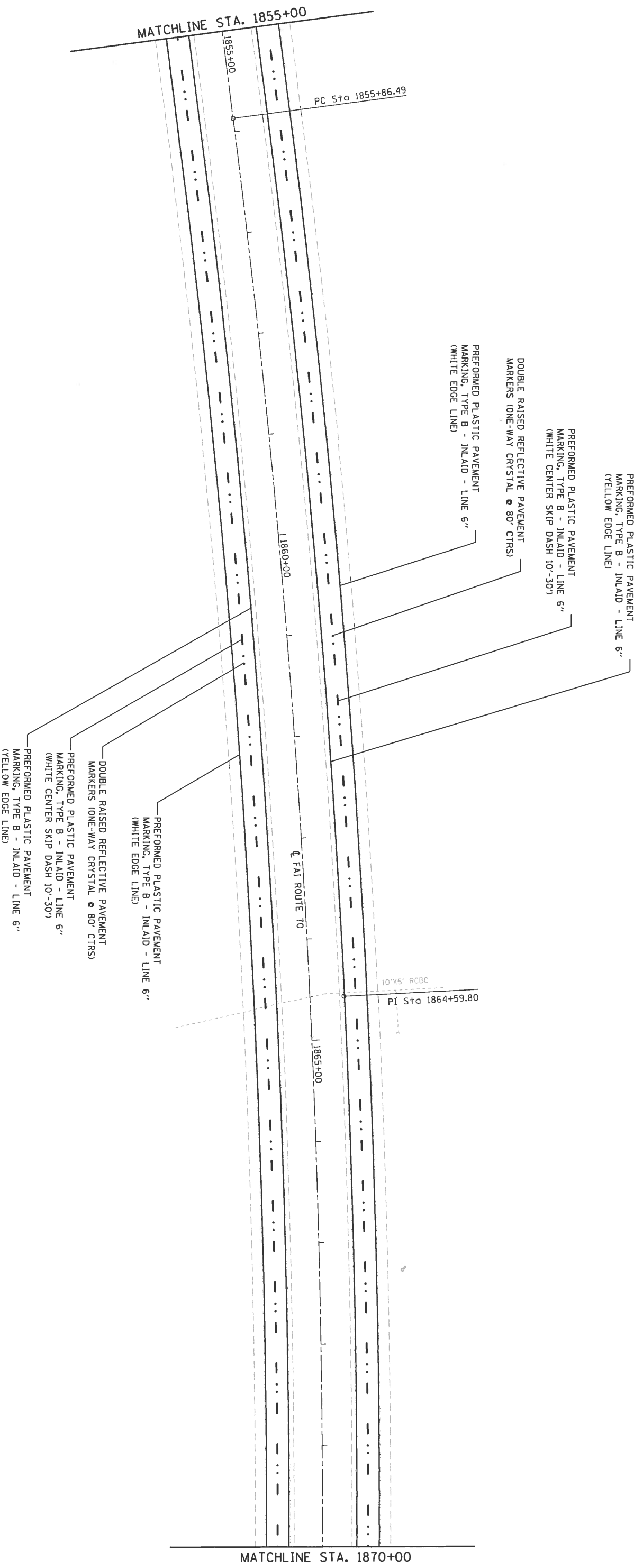
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE 1"=50'	SHEET	OF	SHEETS	STA. 1840+00	TO STA. 1855+00
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F.A.I. RTE. 70	SECTION 60-1314.15(R)-3	COUNTY	TOTAL SHEETS 226	SHEET NO. 137	CONTRACT NO. 76F94
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MADISON/BOND  
ILLINOIS FED. AID PROJECT



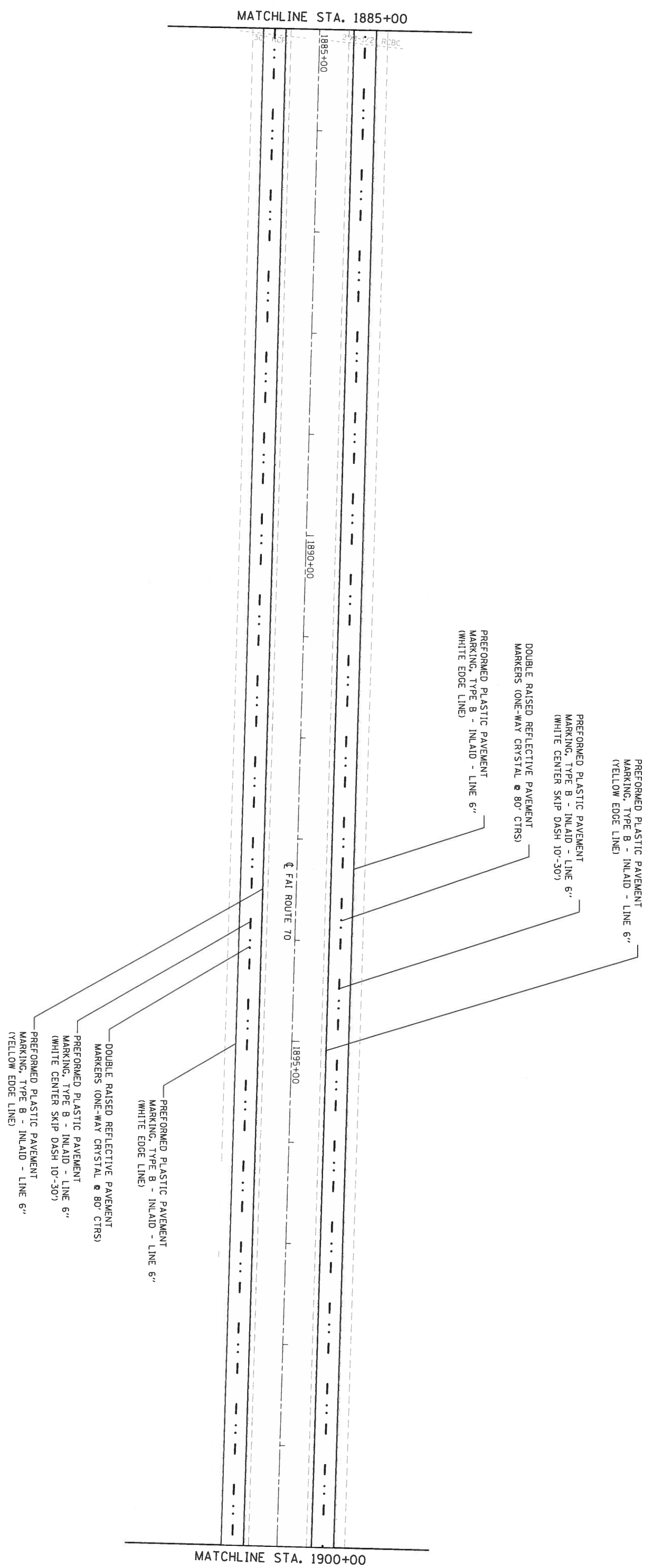
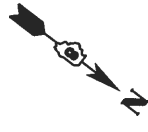
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		-	-
DATE	DATE		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'  
SHEET OF SHEETS  
PAVEMENT MARKING PLAN  
FAI 70 (1-70)  
STA. 1855+00 TO STA. 1870+00

FAI R.T.E.	SECTION	COUNTY	TOTAL SHEET NO.
70	60-13,14,15RS-3		226
			138
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F94





MATCHLINE STA. 1885+00

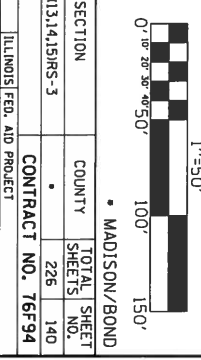
MATCHLINE STA. 1900+00

FILE NAME =  
 USER NAME =  
 PLOT SCALE =  
 PLOT DATE =

DESIGNED -  
 CHECKED -  
 DATE -

REVISID -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



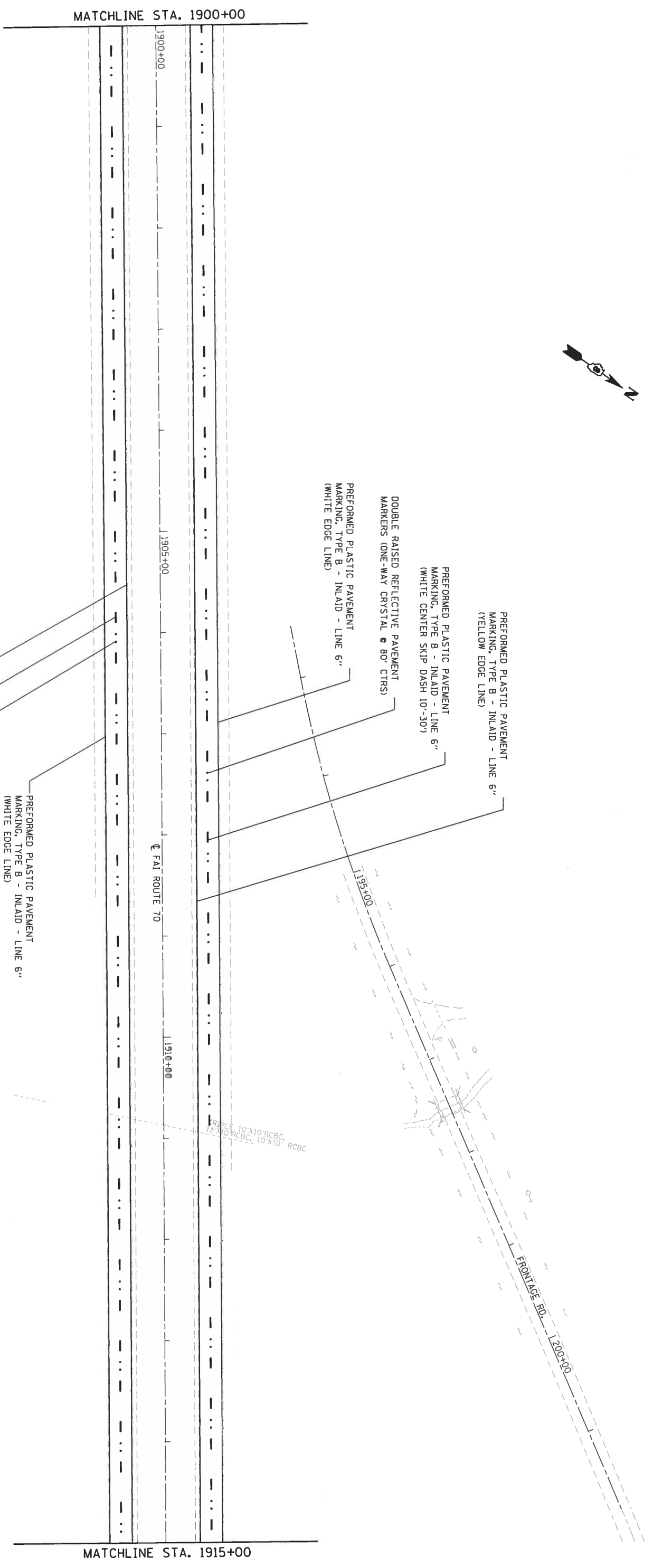
PAVEMENT MARKING PLAN  
 FAI 70 (1-70)  
 SHEET OF SHEETS STA. 1885+00 TO STA. 1900+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.	SHEET NO.
70	60-1314, 15RS-3		226	140

CONTRACT NO. 76F94  
 ILLINOIS FED. AID PROJECT

MADISON/BOND





MATCHLINE STA. 1900+00

MATCHLINE STA. 1915+00

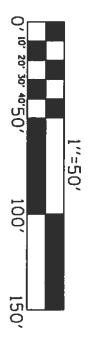
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (YELLOW EDGE LINE)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')
- DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL 80' CTRS)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')
- DOUBLE RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL 80' CTRS)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE CENTER SKIP DASH 10'-30')
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (YELLOW EDGE LINE)

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
pl:\11\0846\BID\INTC\11\1915+00\FWI00T.Dwg	Murphy, J		
PLLOT SCALE = 1/8" = 100'-0"	CHECKED -	DATE -	REVISED -
PLLOT DATE = 9/3/2016			

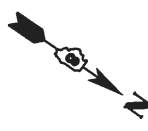
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 50'	SHEET	OF	SHEETS	STA. 1900+00	TO STA. 1915+00
<b>PAVEMENT MARKING PLAN</b>					
<b>FAI 70 (1-70)</b>					

FAI. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
70	60-13,14,15RS-3		226
			141
CONTRACT NO. 76F94			

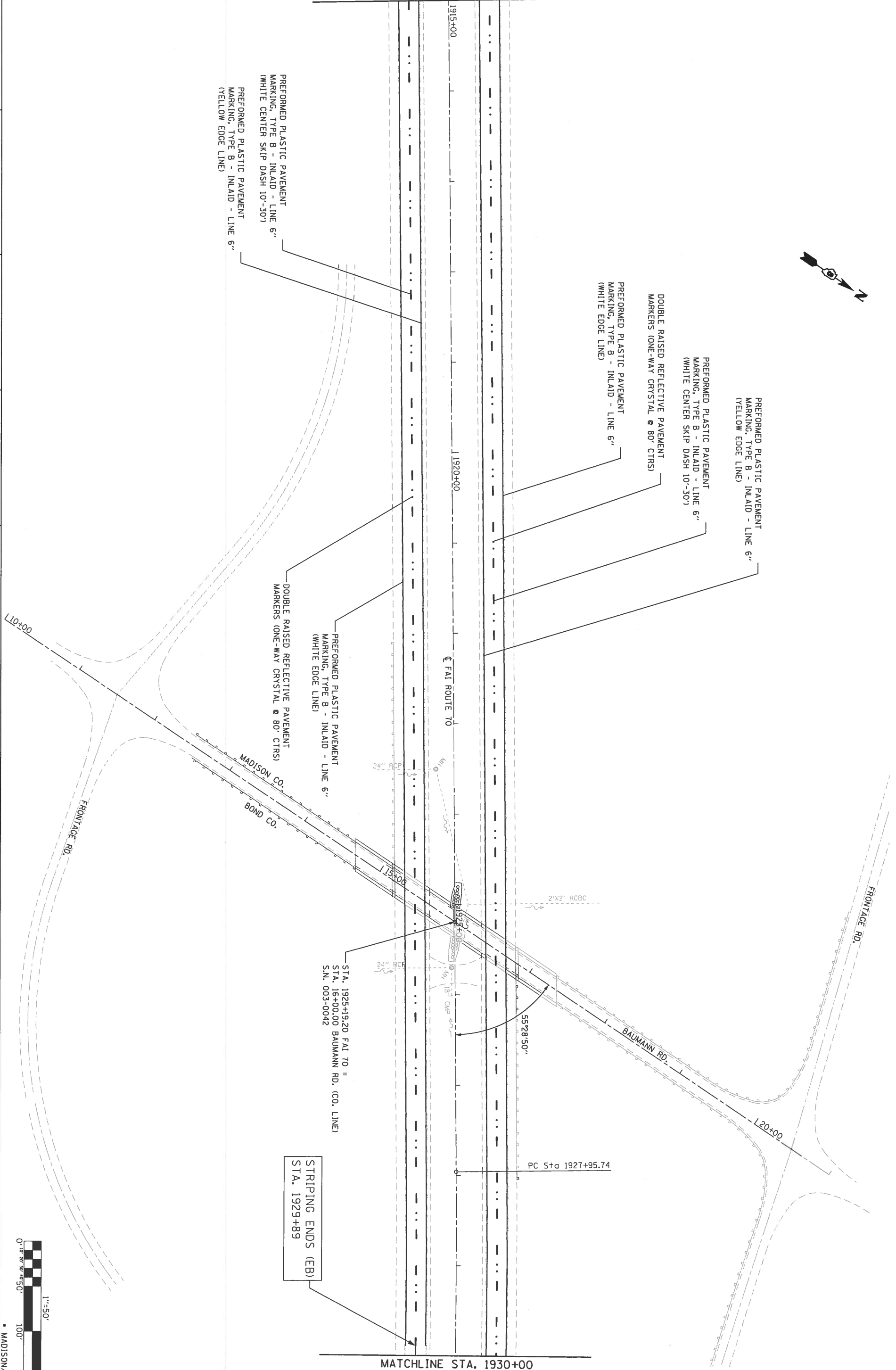


MADISON/BOND



MATCHLINE STA. 1915+00

MATCHLINE STA. 1930+00

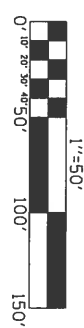


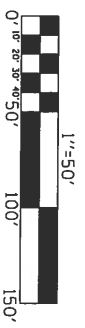
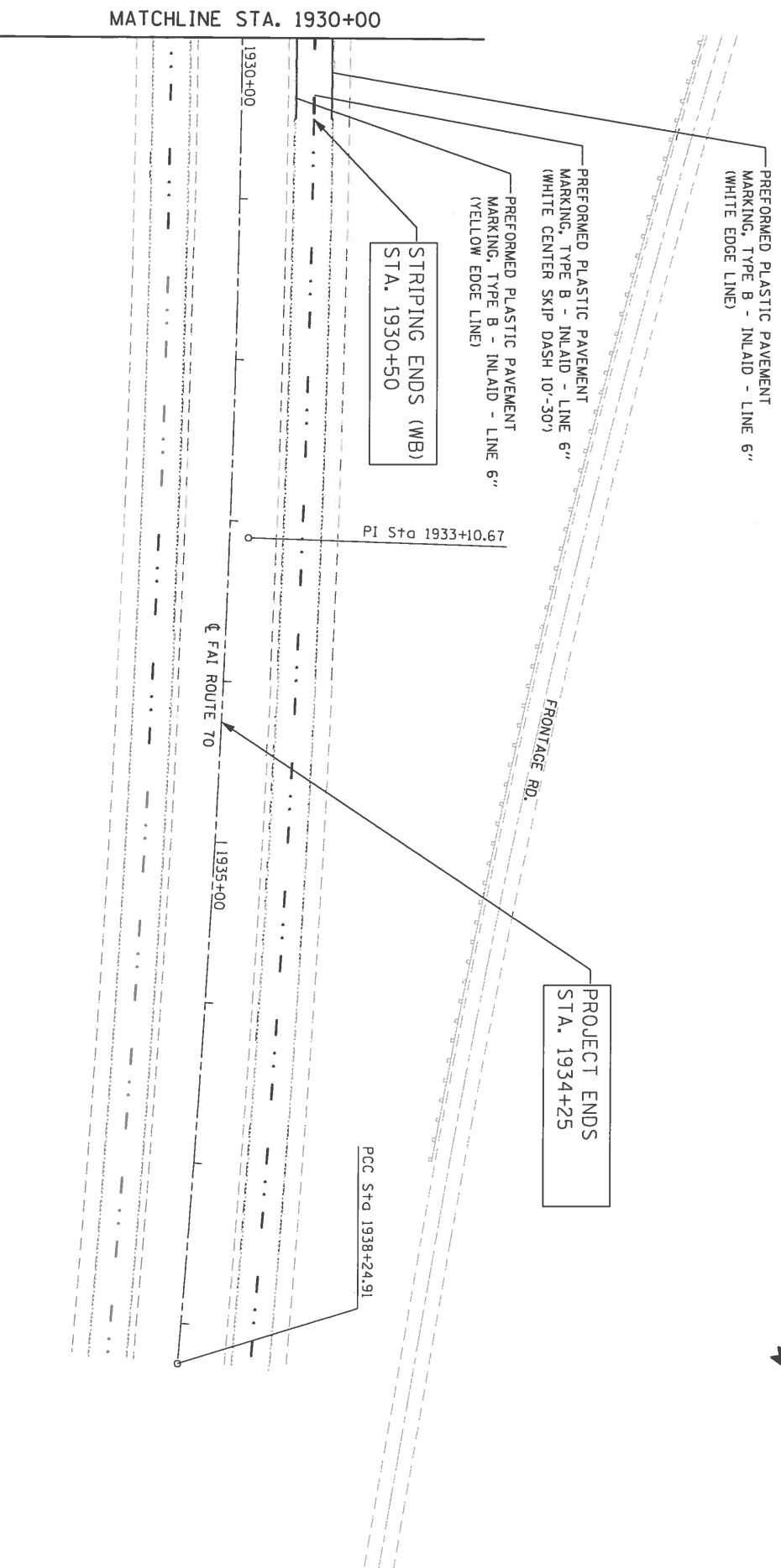
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Default	5/27/2016	CHECKED -	REVISED -
		DATE	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
FAI 70 (1-70)  
SHEET OF SHEETS STA. 1915+00 TO STA. 1930+00

FAI. RTE. TO	SECTION	COUNTY	TOTAL SHEET NO.
60-13.14.15R5-3			226
			142
			CONTRACT NO. 76F94



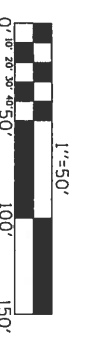
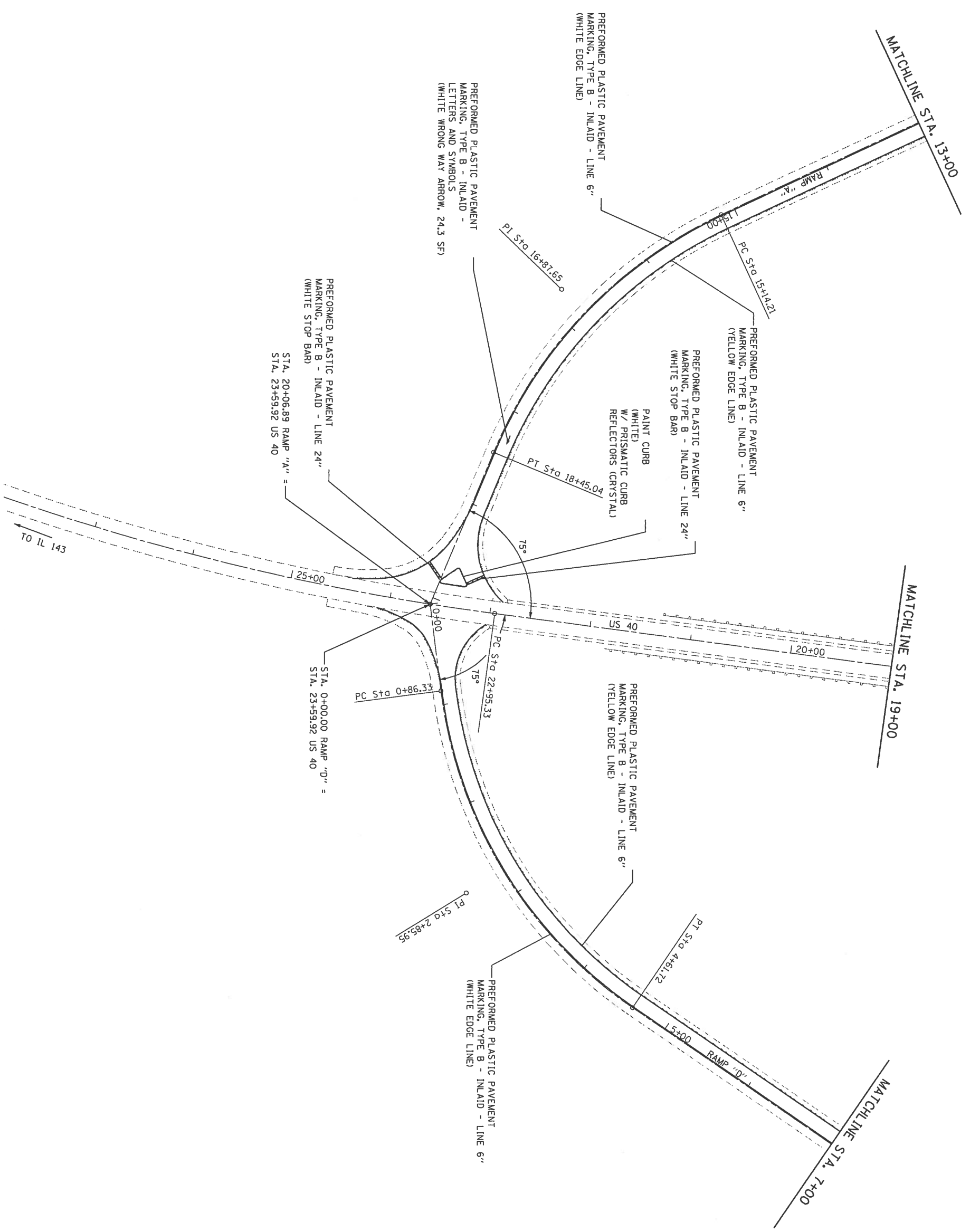


FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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Default	DATE =	DATE	DATE
	5/4/2016		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'	SHEET	OF	SHEETS	TO STA. 1938+24.91
			STA. 1930+00	

FAI ROUTE TO	SECTION	COUNTY	TOTAL SHEET NO.
70	60-113,14,15RS-3		226
			143
			CONTRACT NO. 76F94
			ILLINOIS FED. AID PROJECT



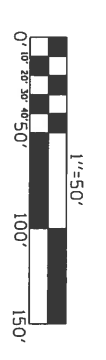
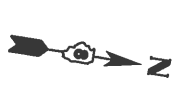
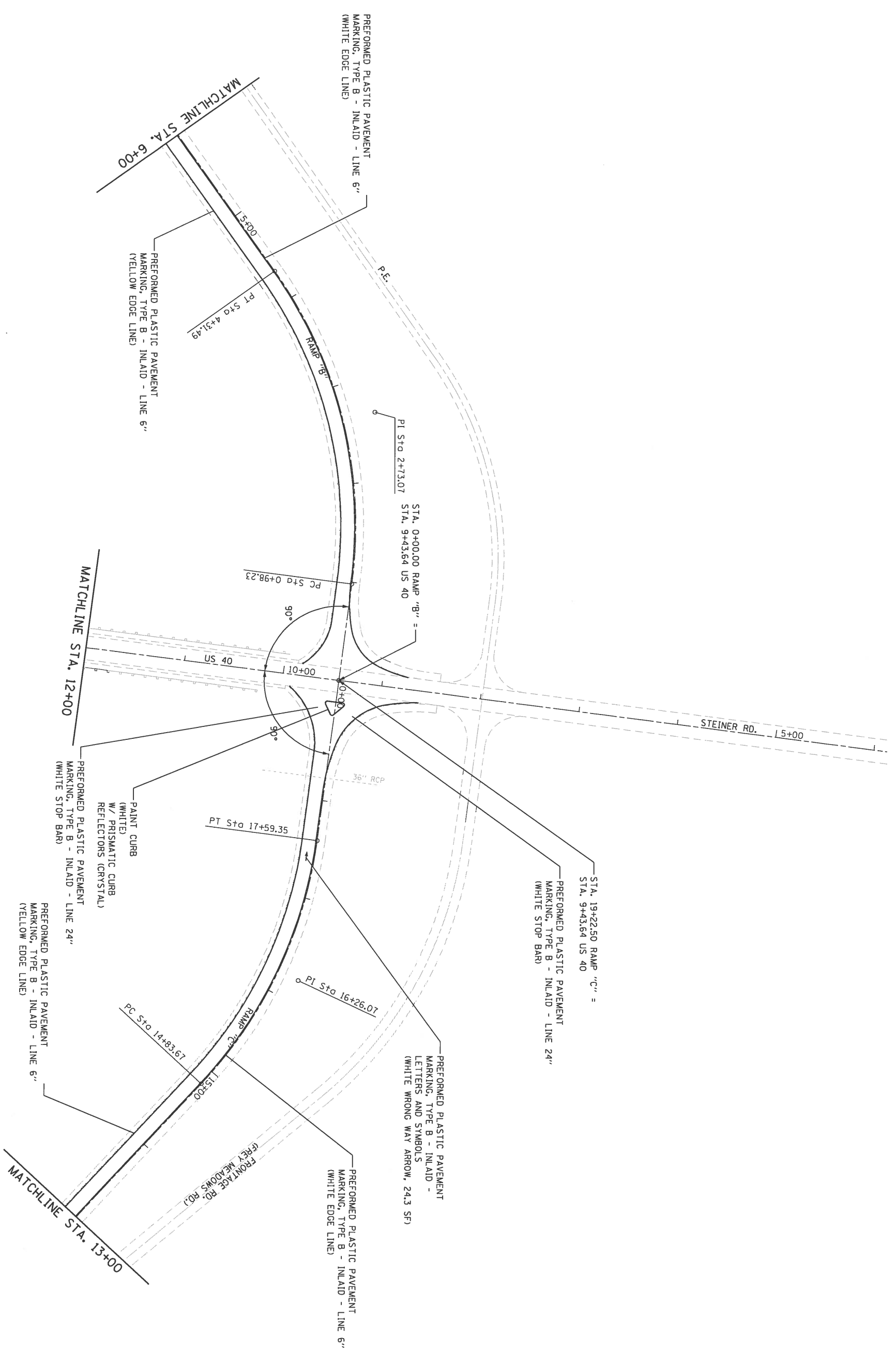
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PROJECT =	PROJECT LEADER =	CHECKED -	REVISOR
DATE =	DATE =	DATE =	DATE =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.
<b>PAVEMENT MARKING PLAN</b>					
<b>RAMP "A" &amp; "D"</b>					

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-131415RCS-3		226	144
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

MADISON/BOND



FILE NAME =	USER NAME =	DESIGNED -	REVISED -
PROJECT =	PROJECT NO. =	CHECKED -	REVISED -
DATE =	DATE =		

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'	SHEET	OF	SHEETS	STA.	TO STA.
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PAVEMENT MARKING PLAN	SECTION	COUNTY	TOTAL SHEETS
	60-13.4.15RS-3		226
CONTRACT NO. 76F94			SHEET NO. 145

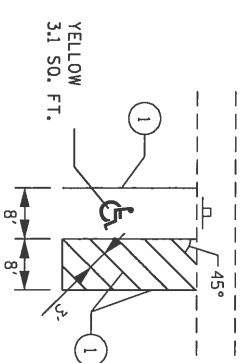


**PAVEMENT MARKING LEGEND**  
(THERMOPLASTIC MARKINGS)

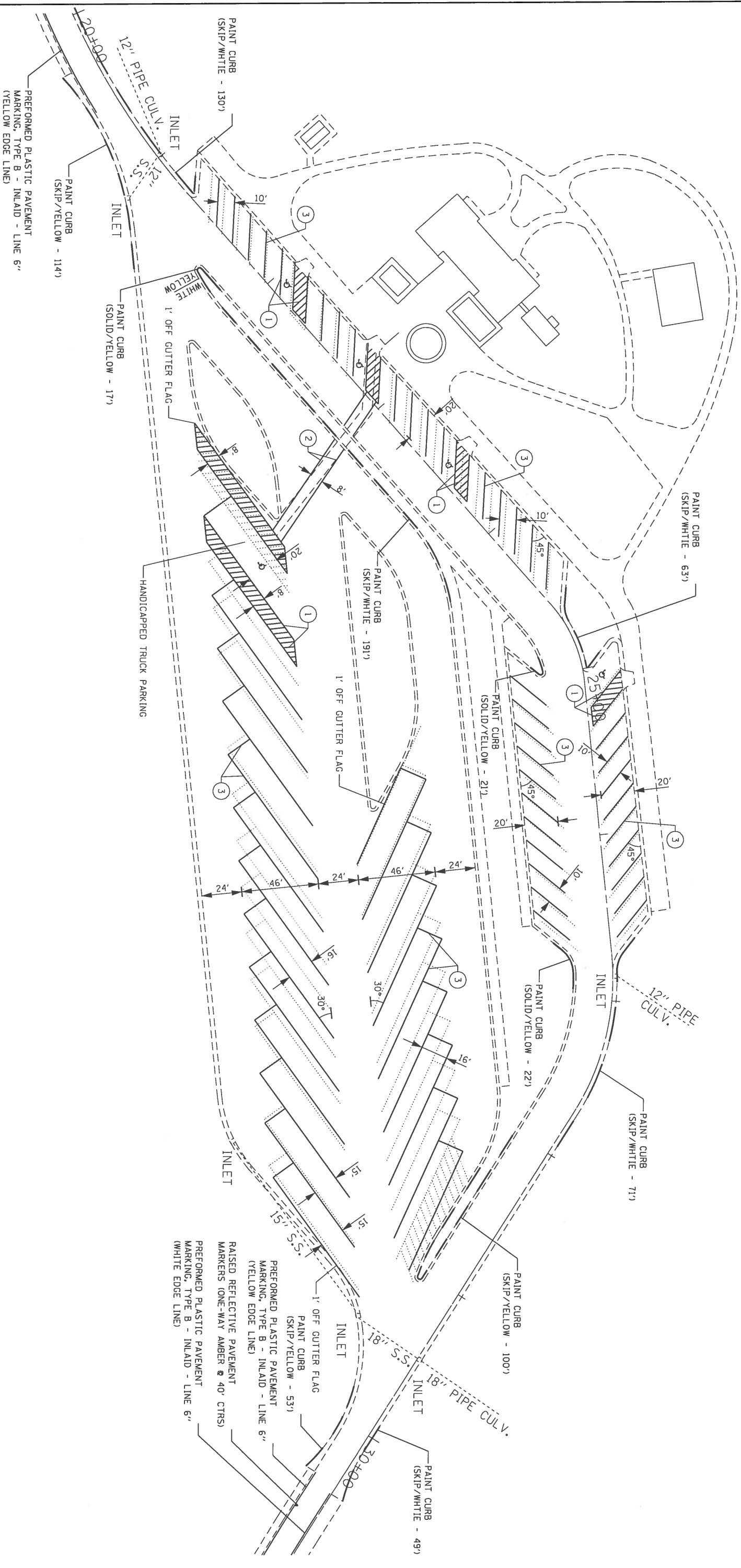
- ① 4" SOLID YELLOW
- ② 6" SOLID WHITE
- ③ 4" SOLID WHITE

NOTE: MATCH THE EXISTING PAINTED CURB SURFACES WITH YELLOW OR WHITE PAINT AS SHOWN IN THIS DETAIL.

QUANTITIES HAVE BEEN DETERMINED FROM A FIELD SURVEY OF THE EXISTING PAINTED CURB SURFACES AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "PAINTED CURB".



HANDICAP PARKING PAVEMENT MARKING DETAIL



RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER @ 40' CTRS)  
 PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 6" (WHITE EDGE LINE)

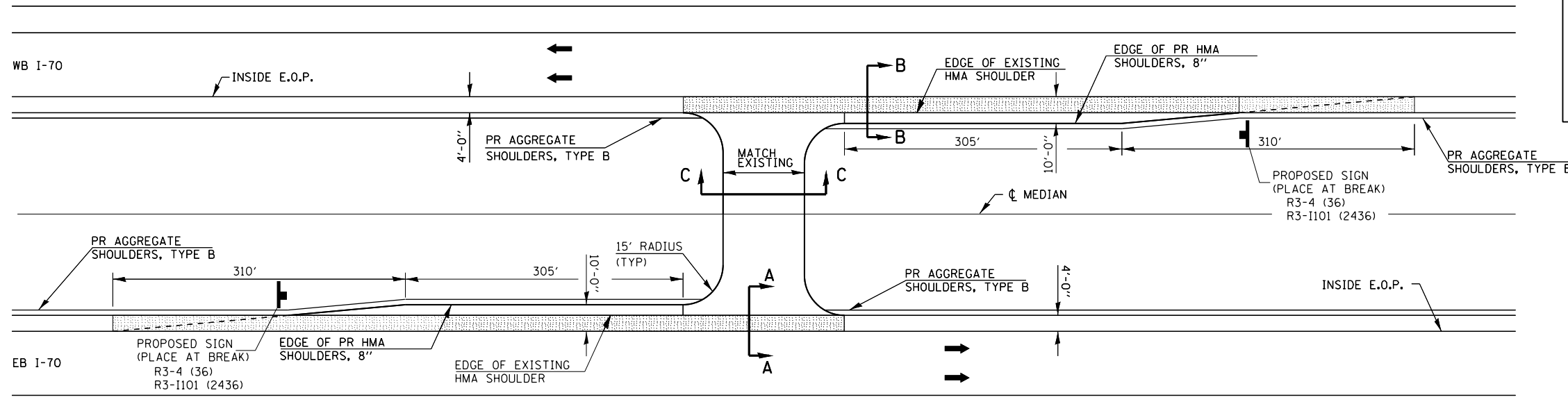
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pa:\1188\BENTON\TECH\linasgo\p11001\Documents\1001\Office\District B\Projects\DR\PERMANENT\Kendrick\EDIT\CONSQL\TANT\HBE\BDR\94-shr.pml\28.dgn	MURRAY								
PLOT SCALE = 60/8000 = 7/100	CHECKED -	REVISIONS	REVISIONS						
DATE = 5/4/2016	DATE								
<b>STATE OF ILLINOIS</b>					<b>PAVEMENT MARKING PLAN</b>				
<b>DEPARTMENT OF TRANSPORTATION</b>					<b>WESTBOUND REST AREA</b>				
					ILLINOIS FED. AID PROJECT				
					MADISON/BOND				
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.						
60-131415RS-3		226	141						
				CONTRACT NO. 76F94					

# EMERGENCY MEDIAN CROSSOVERS

## DELINEATOR PLACEMENT INFORMATION

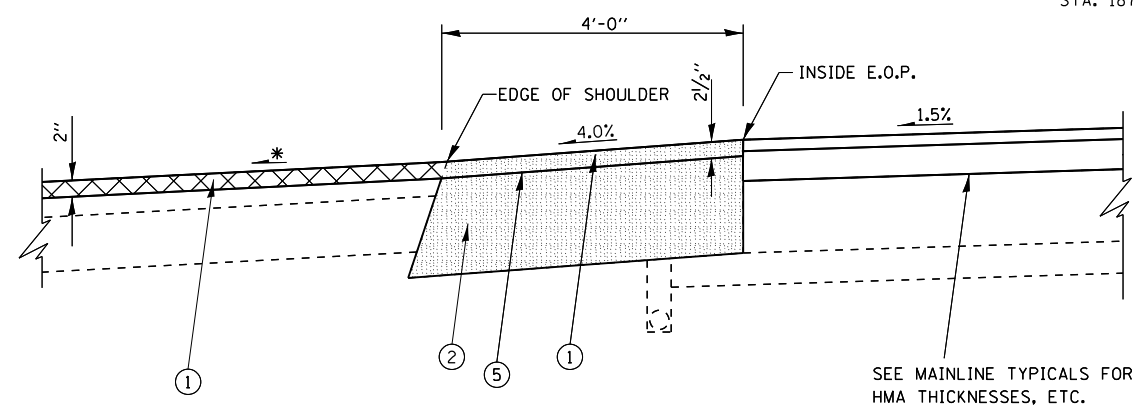
TWO DELINEATORS SHALL BE PLACED IN ADVANCE OF THE MEDIAN CROSSOVERS. ONE SHALL BE AT THE CROSSOVER, THE OTHER 800 FT IN ADVANCE OF THE FIRST. THE DELINEATOR AT THE CROSSOVER SHALL HAVE TWO AMBER REFLECTORS, AND THE DELINEATOR 800 FT IN ADVANCE SHALL HAVE THREE AMBER REFLECTORS.

NOTES:  
OMIT RUMBLE STRIPS IN SHADED AREAS OF SHOULDER.



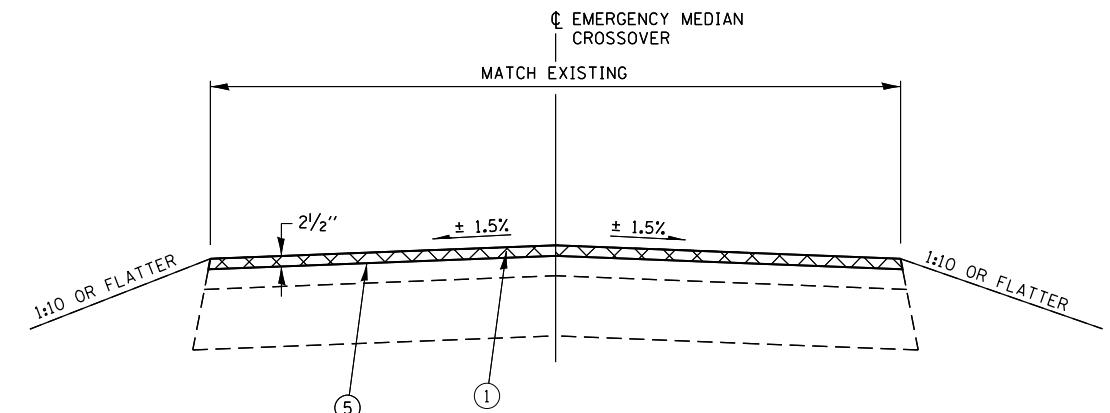
### PLAN VIEW

STA. 1773+00  
STA. 1876+00



### SECTION A - A

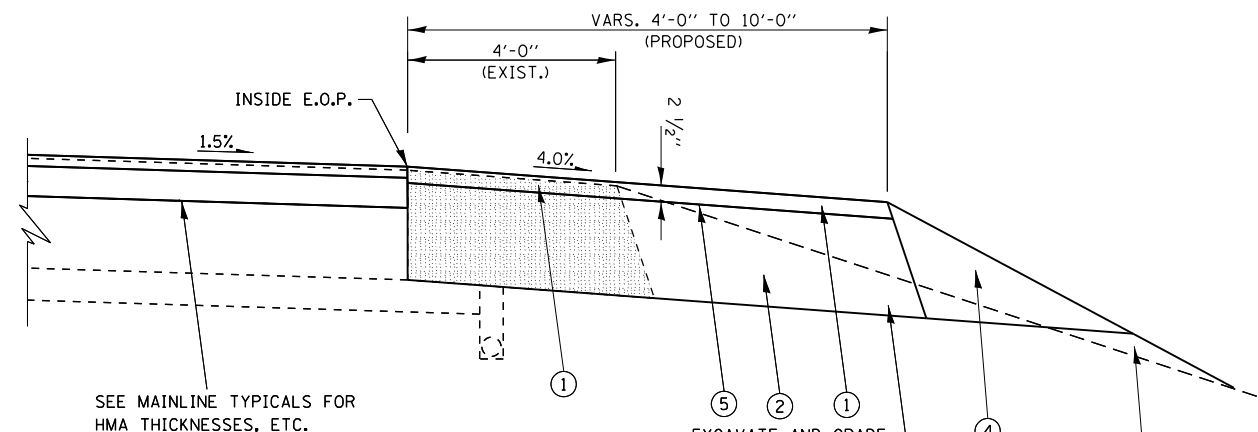
\* - MAINTAIN SLOPES AWAY FROM MAINLINE PAVEMENT TO ENSURE PROPER DRAINAGE INTO MEDIAN DITCHES.



### SECTION C - C

HMA SURFACE REMOVAL 2 1/2"

- LEGEND**
- ① PROPOSED HOT-MIX ASPHALT SHOULDERS, 2 1/2"
  - ② PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
  - ③ NOT USED
  - ④ PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
  - ⑤ PROPOSED POLY BITUMINOUS MATERIAL (TACK COAT)



### SECTION B - B

EXCAVATE AND GRADE EX SHOULDERS

MATERIAL FROM EXCAVATE AND GRADE EX SHOULDERS, AND FURNISHED EX AS NEEDED.

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
pw:\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 8\Projects\0875\DRAWING\DATA\CAD\SHETS\EDITEDCONSULTANTS\REVISED\694-sht-details.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 5/6/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

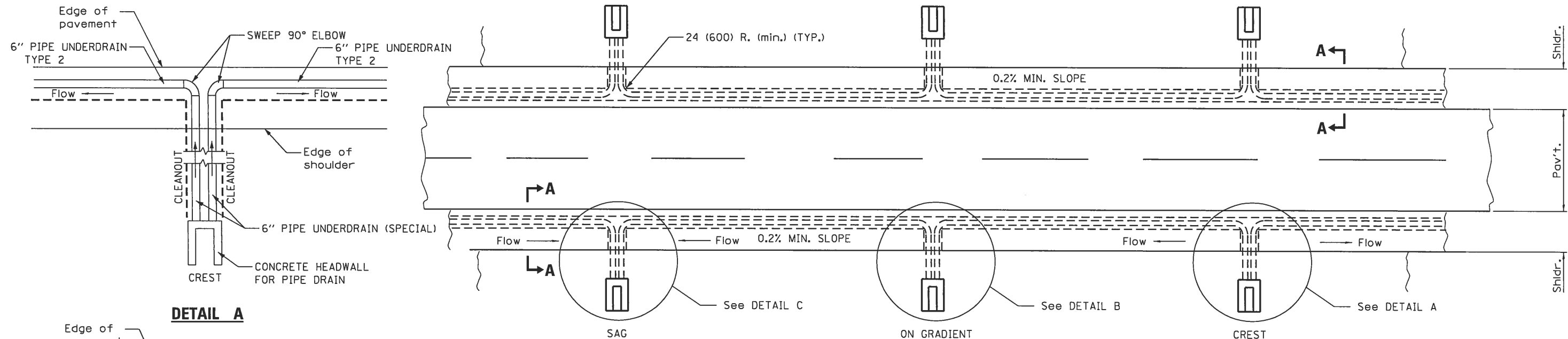
EMERGENCY MEDIAN  
CROSSOVER DETAIL

SCALE: NTS SHEET OF SHEETS STA. TO STA.

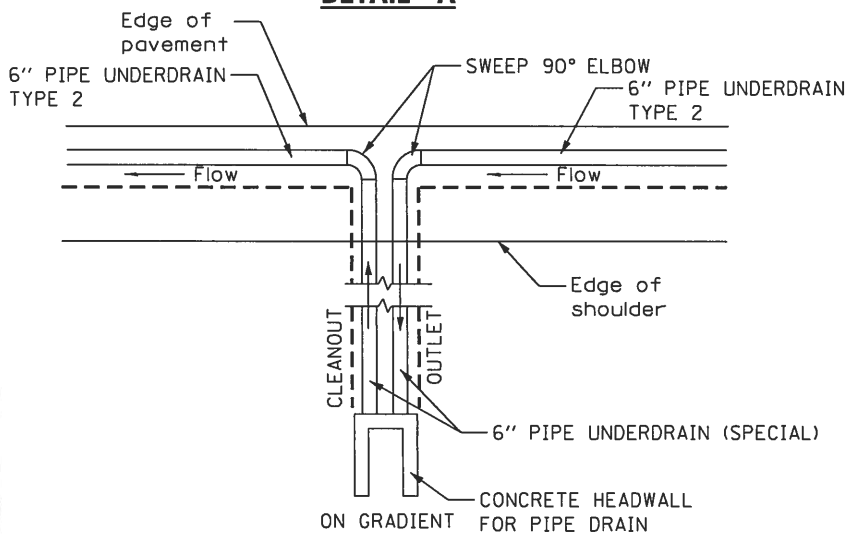
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	148
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

MADISON/BOND

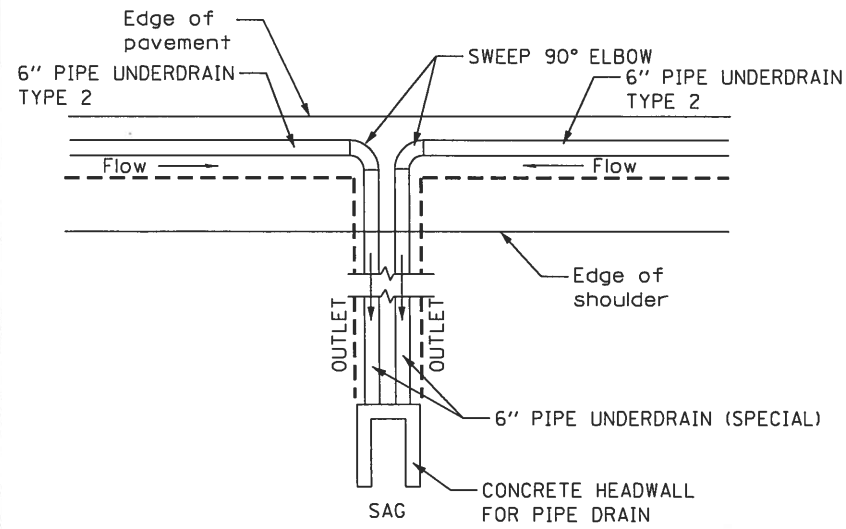




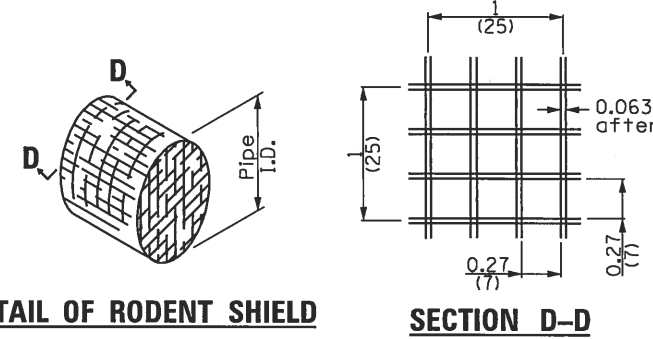
**DETAIL A**



**DETAIL B**



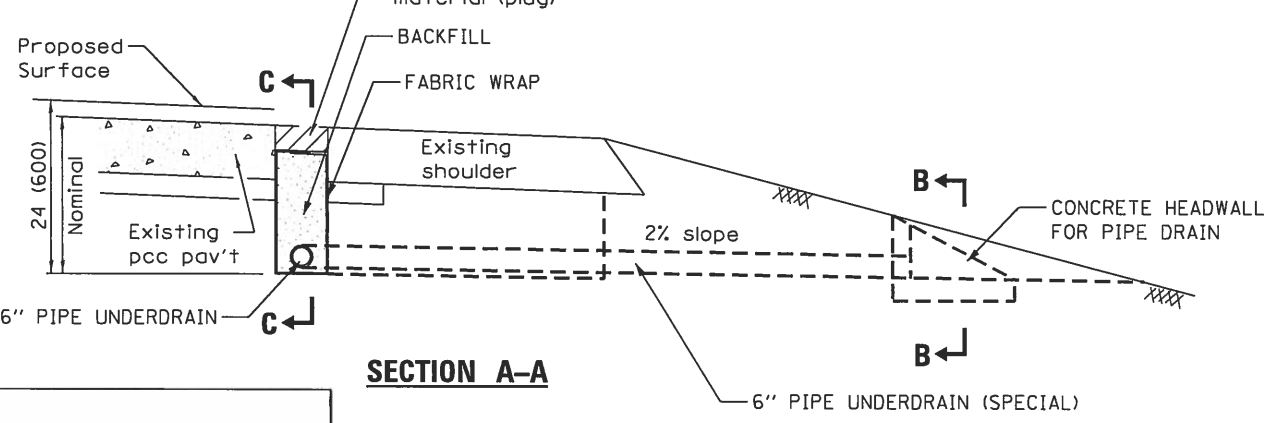
**DETAIL C**



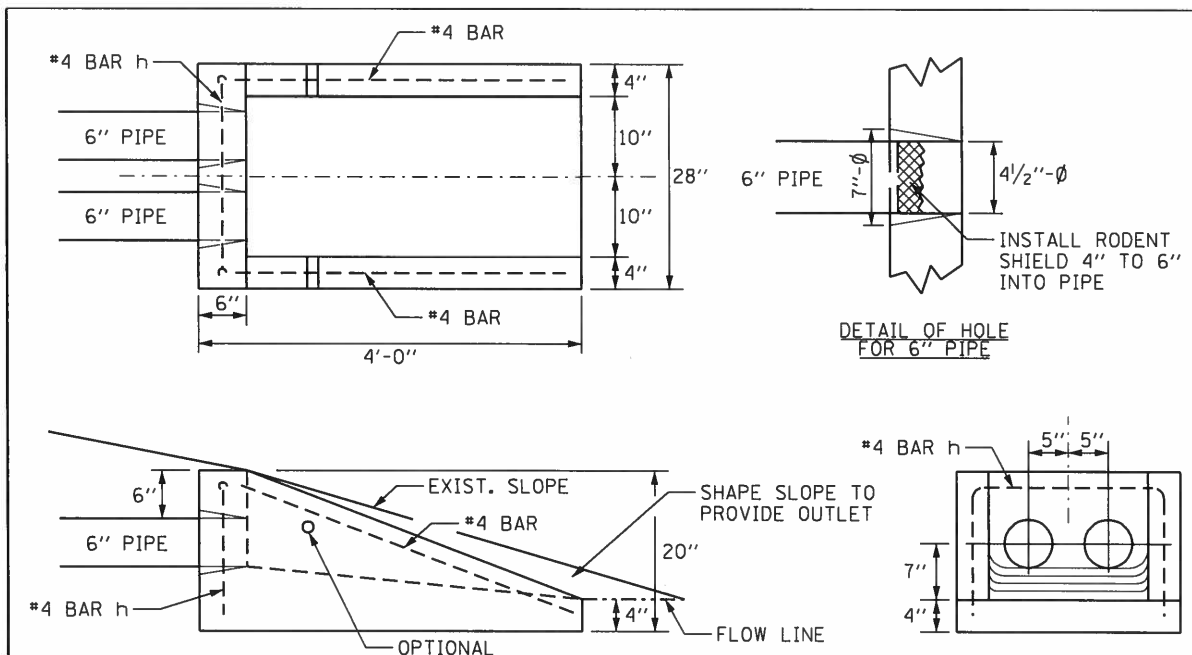
**DETAIL OF RODENT SHIELD**

**SECTION D-D**

**PLAN**

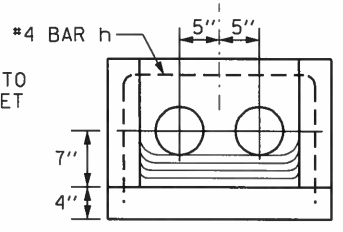


**SECTION A-A**

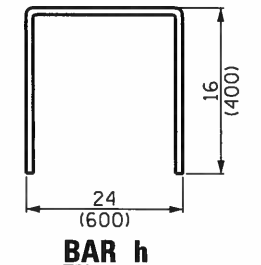


**CONCRETE HEADWALL FOR PIPE UNDERDRAIN**

**DETAIL OF HOLE FOR 6" PIPE**



**SECTION B-B**



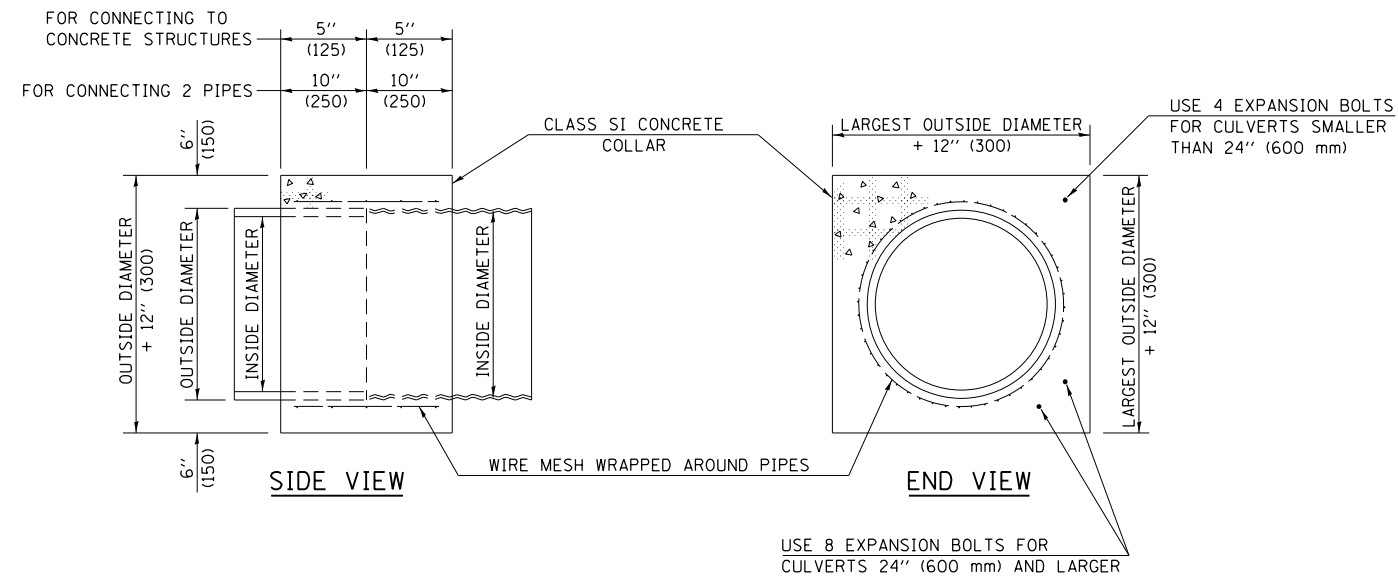
**BAR h**

**SECTION C-C**

AN ALTERNATE CONCRETE HEADWALL MEETING THE APPROVAL OF THE ENGINEER MAY BE SUBSTITUTED FOR THAT SHOWN.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = MurrayDA	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUB-SURFACE DRAIN DETAILS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Documents\1007 Offices\District 8\Projects\087\Drawings\Detail\EDITECONSULTANTS\REVISED\694-shd-details.dgn	CHECKED -	REVISED -						70	60-113.14,15)RS-3	.	226	149
	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -						CONTRACT NO. 76F94				
	PLOT DATE = 5/13/2016								ILLINOIS FED. AID PROJECT				



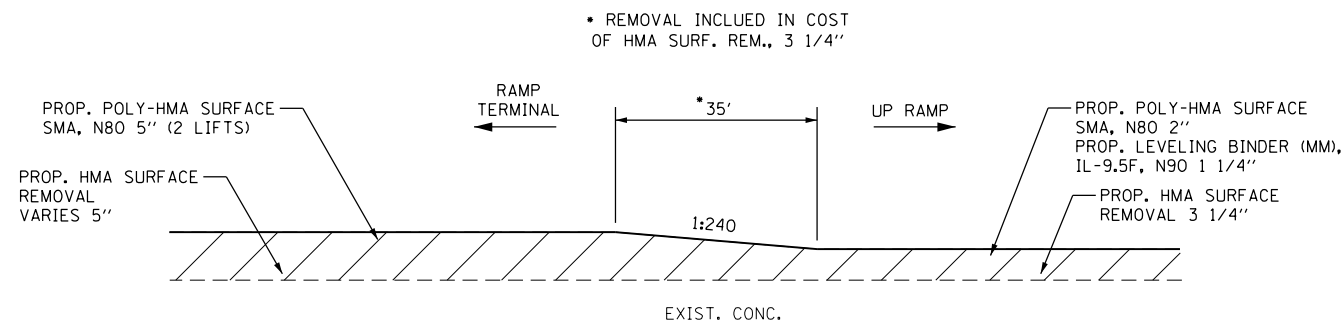
QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED 20" (500 mm) WIDTH
INCH (mm)	CU. YD. (m <sup>3</sup> )
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED 20" (500 mm) WIDTH
INCH (mm)	CU. YD. (m <sup>3</sup> )
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

**GENERAL NOTES**

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m<sup>2</sup>).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

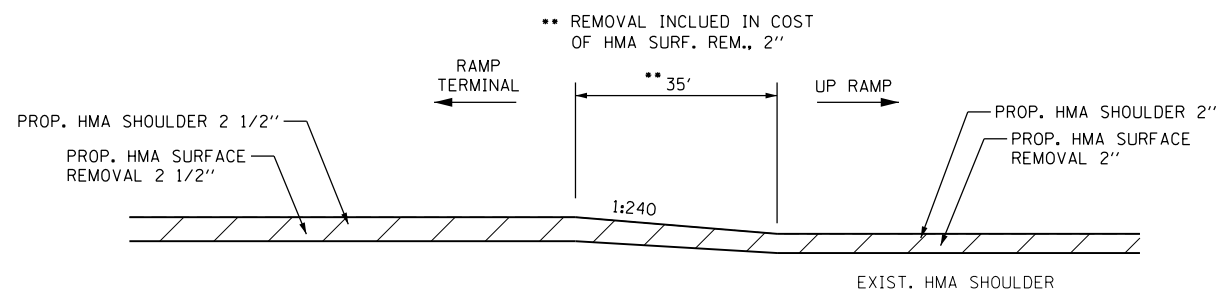
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



REST AREA RAMP PAVEMENT PROFILE TRANSITION

EB REST AREA  
STA. 6+80 TO STA. 7+15  
STA. 22+15 TO STA. 21+80

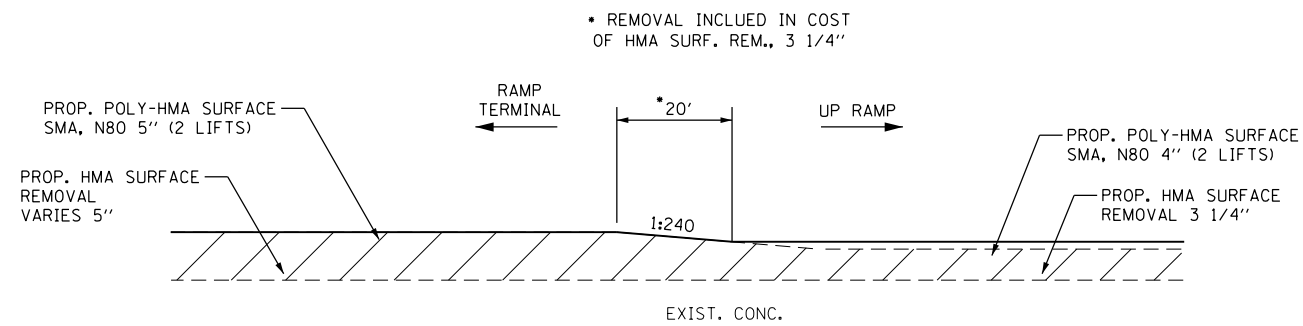
WB REST AREA  
STA. 10+75 TO STA. 11+10  
STA. 34+15 TO STA. 33+80



REST AREA RAMP SHOULDER PROFILE TRANSITION

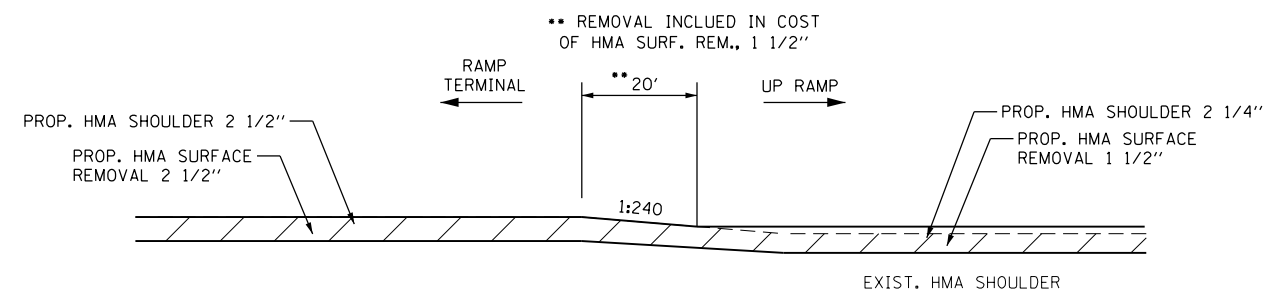
EB REST AREA  
STA. 6+80 TO STA. 7+15  
STA. 22+15 TO STA. 21+80

WB REST AREA  
STA. 10+75 TO STA. 11+10  
STA. 34+15 TO STA. 33+80



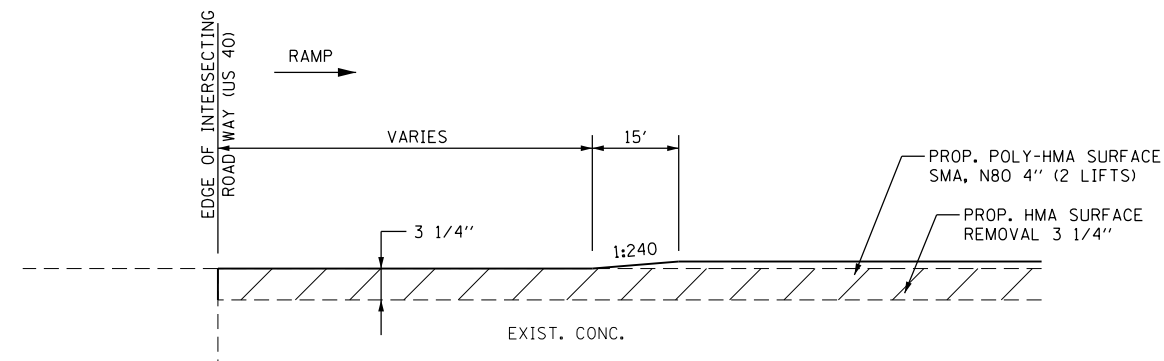
RAMP PAVEMENT PROFILE TRANSITION

IL 143 INTERCHANGE  
STA. 6+80 TO STA. 7+00 RAMP A  
STA. 11+32 TO STA. 11+12 RAMP B  
STA. 6+75 TO STA. 6+95 RAMP C  
STA. 12+12 TO STA. 11+92 RAMP D



RAMP SHOULDER PROFILE TRANSITION

IL 143 INTERCHANGE  
STA. 6+80 TO STA. 7+00 RAMP A  
STA. 11+32 TO STA. 11+12 RAMP B  
STA. 6+75 TO STA. 6+95 RAMP C  
STA. 12+12 TO STA. 11+92 RAMP D



RAMP PAVEMENT PROFILE TRANSITION

IL 143 INTERCHANGE  
STA. 18+80 TO STA. 18+95 RAMP A  
STA. 1+00 TO STA. 1+15 RAMP B  
STA. 17+95 TO STA. 18+10 RAMP C  
STA. 0+85 TO STA. 1+00 RAMP D

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 8\Projects\0875\Drawings\084EBID\084EBID-694-sht-details.dgn		DRAWN BY =	REVISIONS =
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2016	DATE -	REVISED -

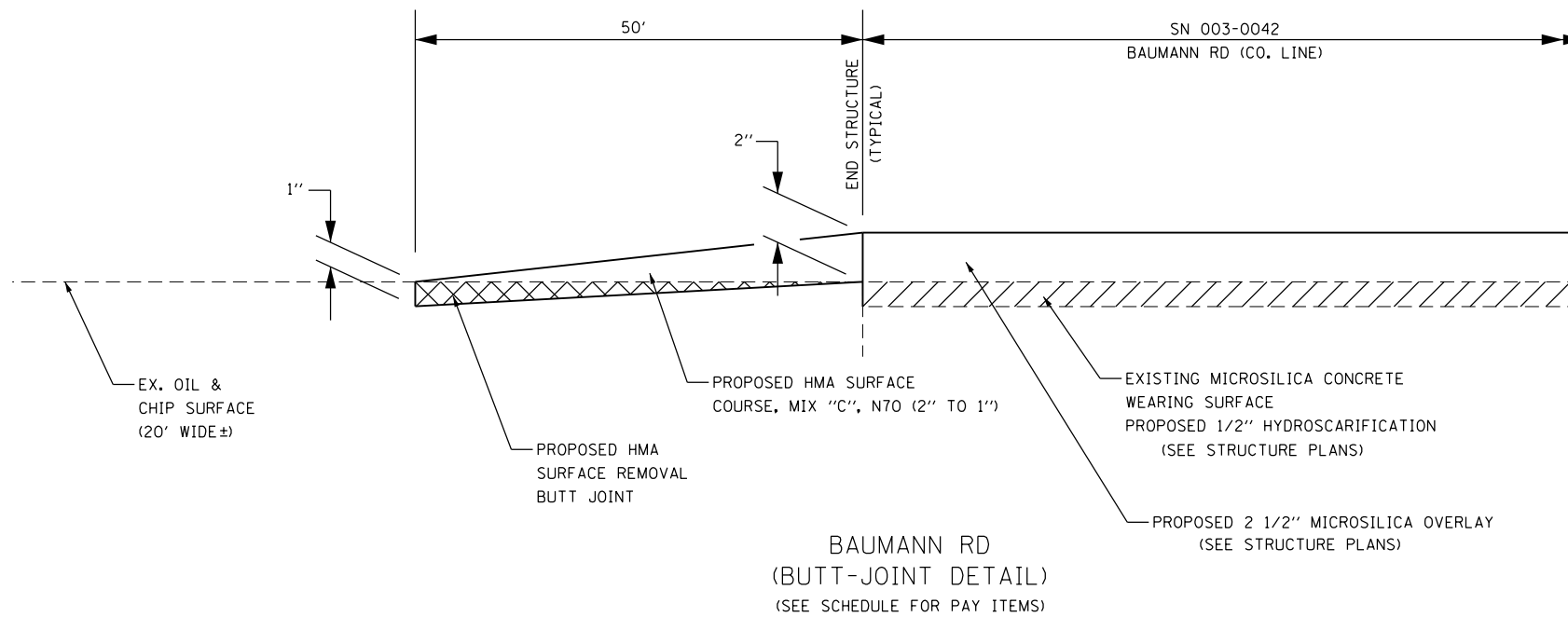
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT TRANSITION DETAILS

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	151
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

MADISON/BOND



• MADISON/BOND

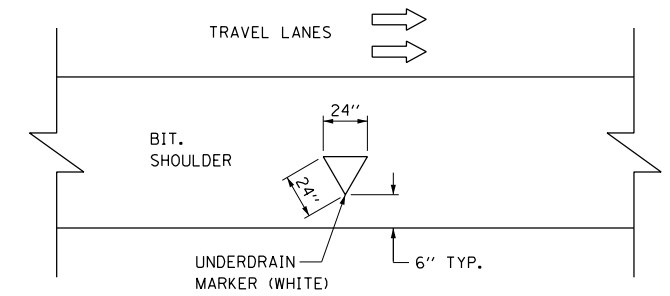
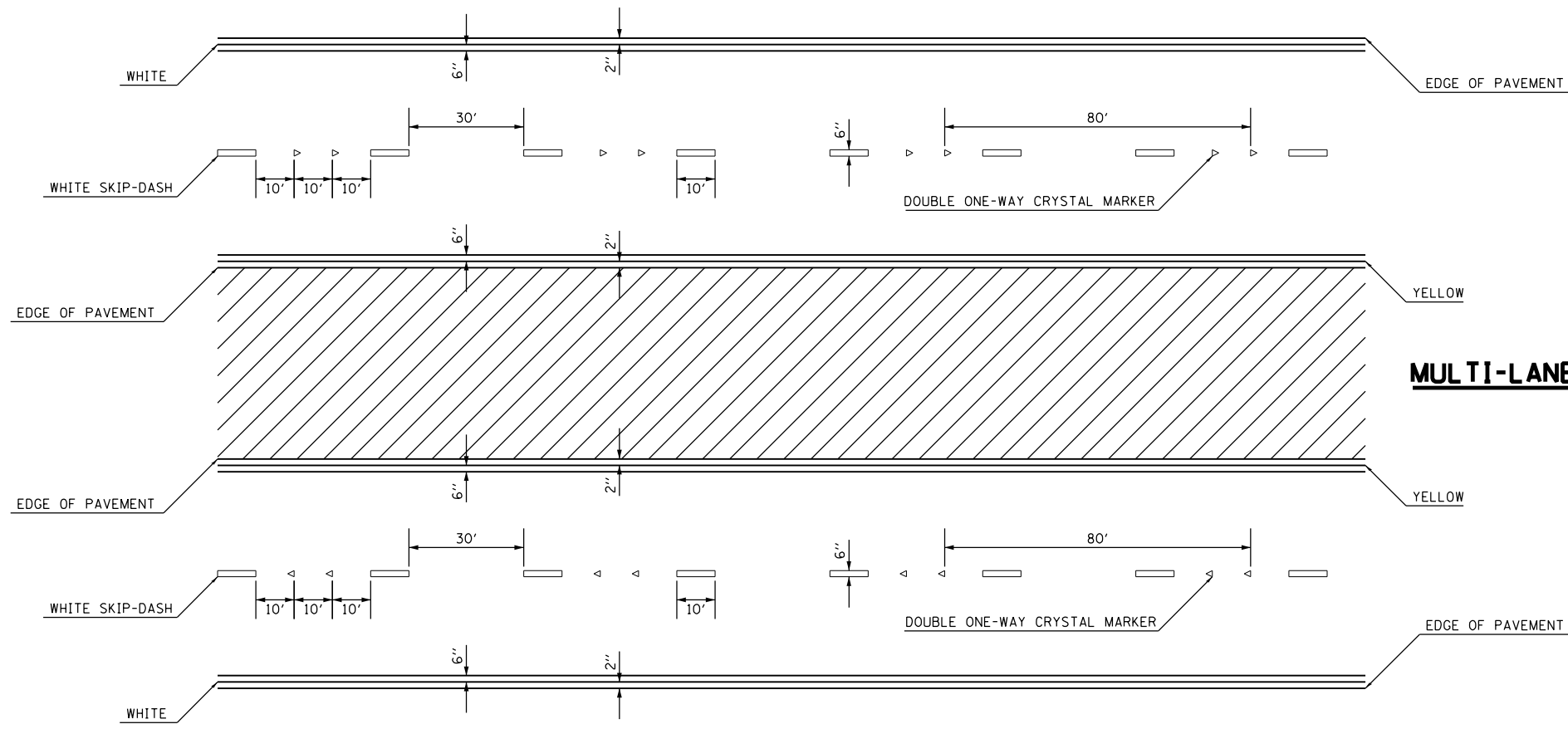
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT DETAIL**

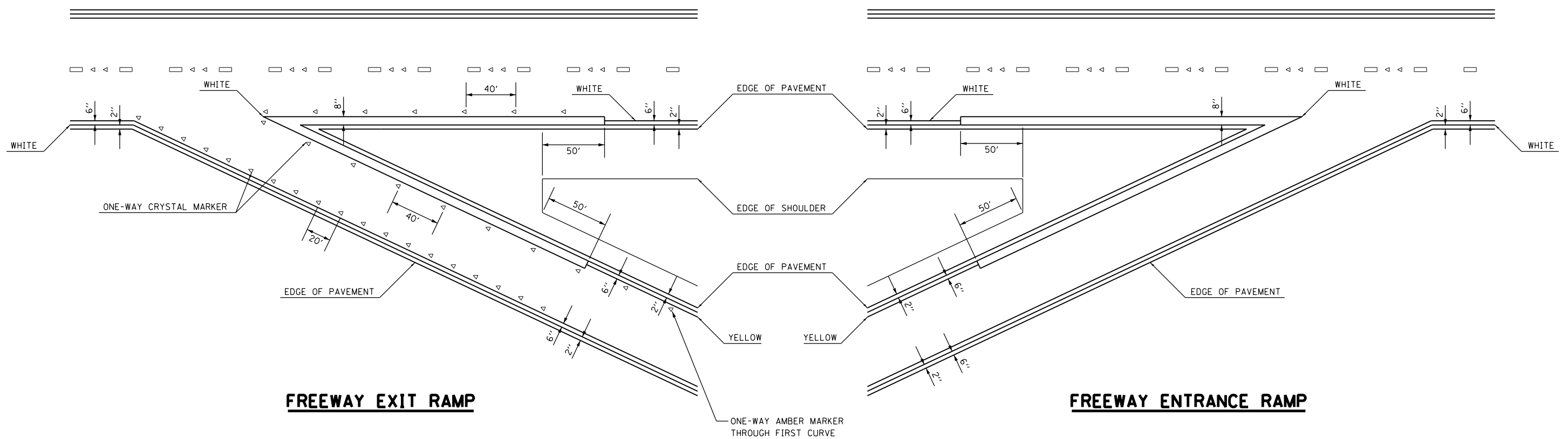
SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	•	226	152
				<b>CONTRACT NO. 76F94</b>
ILLINOIS FED. AID PROJECT				



**TYPICAL UNDERDRAIN OUTLET MARKER DETAIL**  
 24" WHITE TRIANGLE  
 NOT TO SCALE

NOTE:  
 TO BE PAID FOR AS PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS (SQ FT) (USE 2 SQ FT FOR AREA)



**FREEWAY EXIT RAMP**

**FREEWAY ENTRANCE RAMP**

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 8\Projects\0875\Drawings\084EBID\084EBID-694-sht-details.dgn		DRAWN BY -	REVISIONS -
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 5/6/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAILS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	153
			CONTRACT NO. 76F94	
ILLINOIS FED. AID PROJECT				

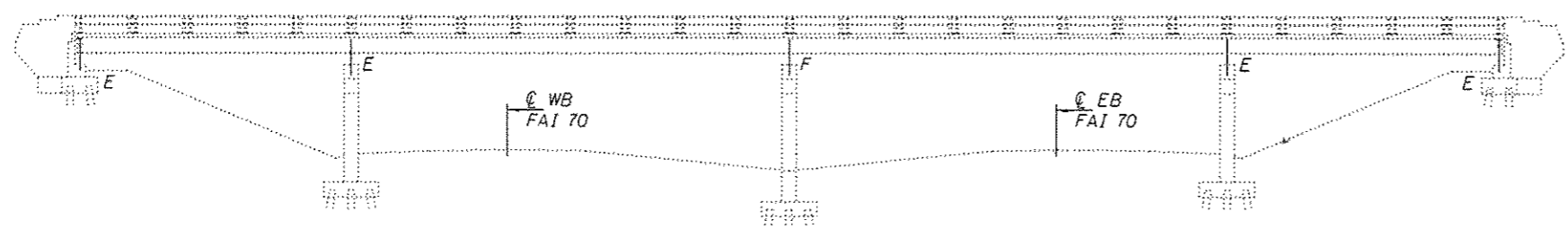
• MADISON/BOND

**GENERAL NOTES**

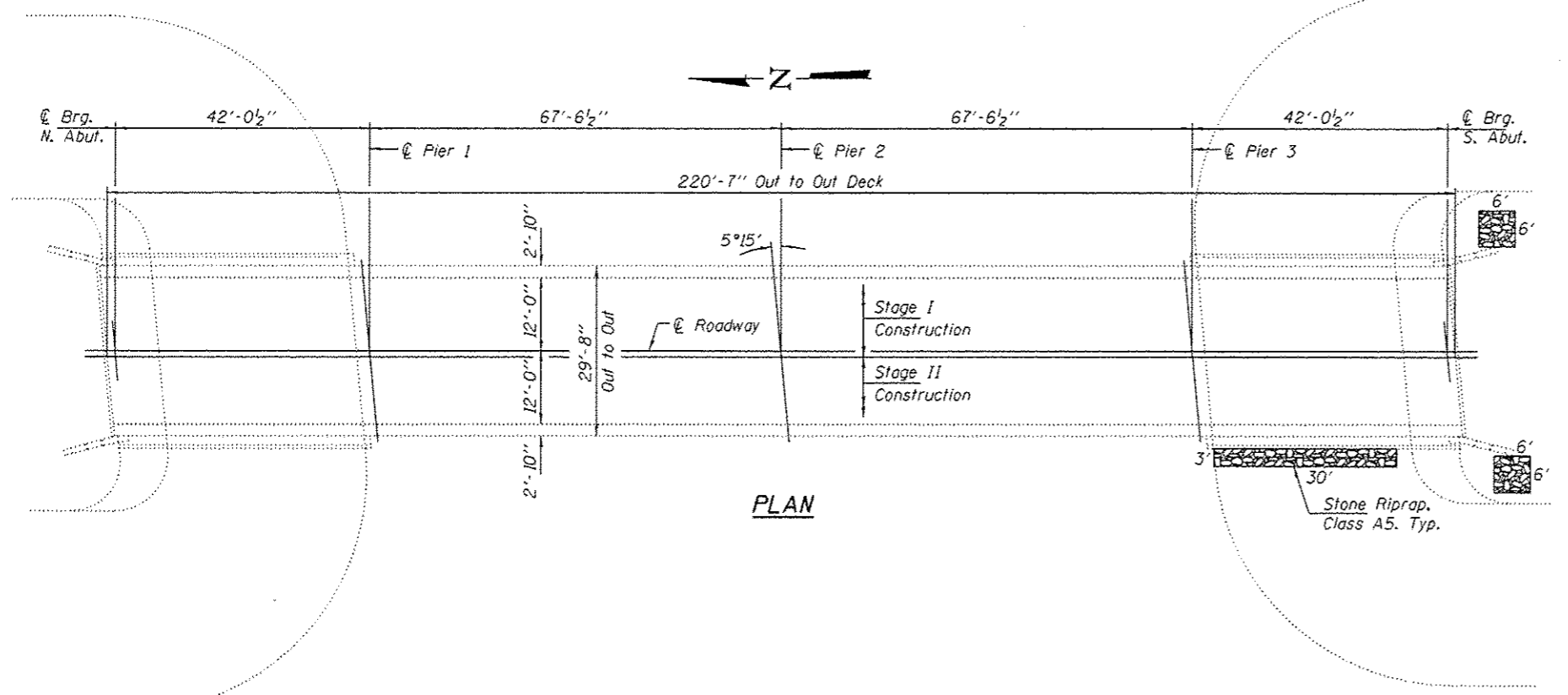
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

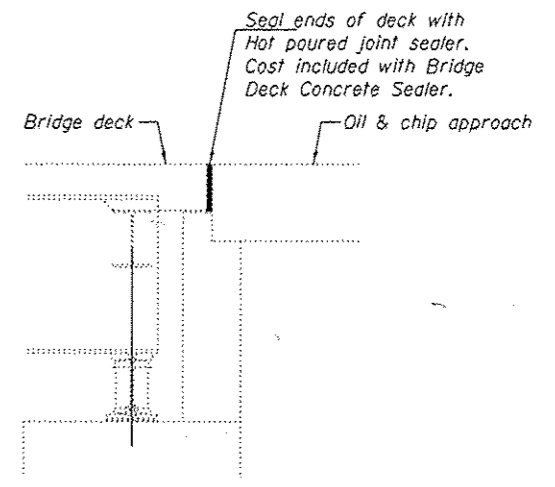
Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Grey, Munsell No. 5B 7/1.



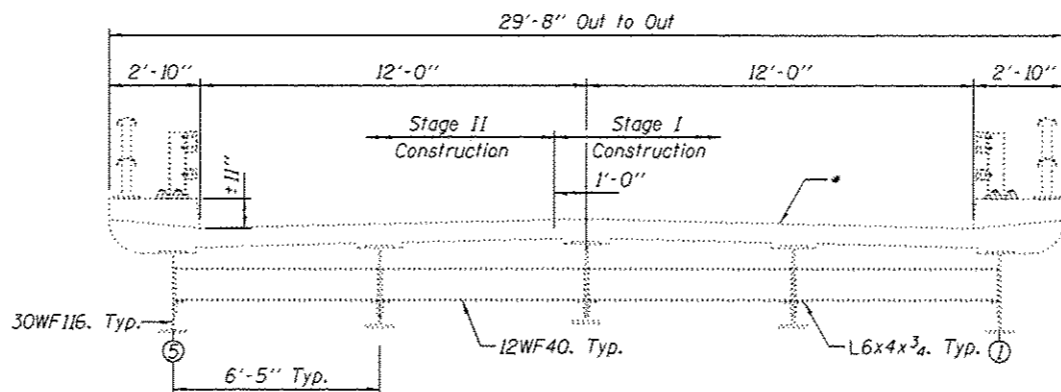
**ELEVATION**



**PLAN**



**SECTION THRU ABUTMENT**



**CROSS SECTION**

(Looking North)

\* Apply Bridge Deck Concrete Sealer to the deck surface and the face & top of the curbs



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Bridge Deck Concrete Sealer	Sq. Ft.	6950
Stone Riprap, Class A5	Sq. Yd.	18.0
Cleaning and Painting Steel Bridge No. 1	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 1	L.S.	1
Filter Fabric	Sq. Yd.	18.0

DESIGNED *Tom L. Clark (ATH)*  
 CHECKED *Adrian J. Holloway*  
 DRAWN *baliva*  
 CHECKED *TLC ATH*

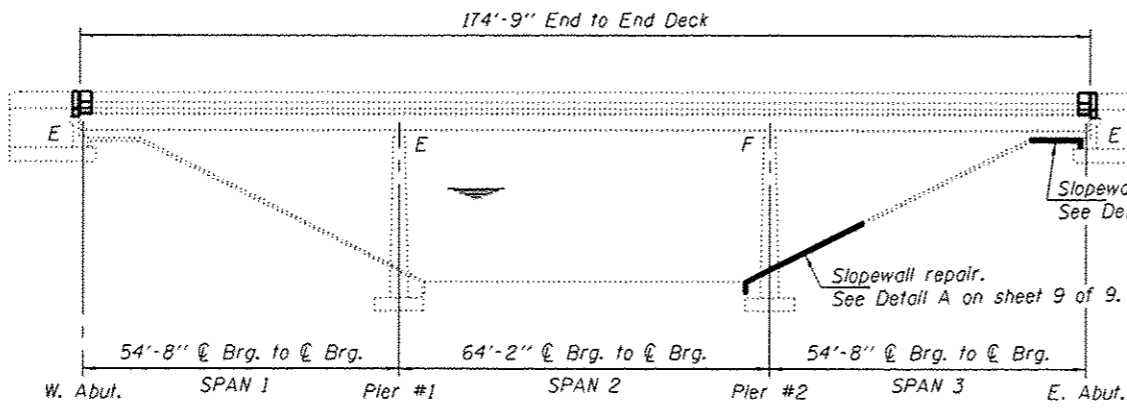
PASSED *David Carl Puzey*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 27, 2015  
 REVISED  
 REVISED

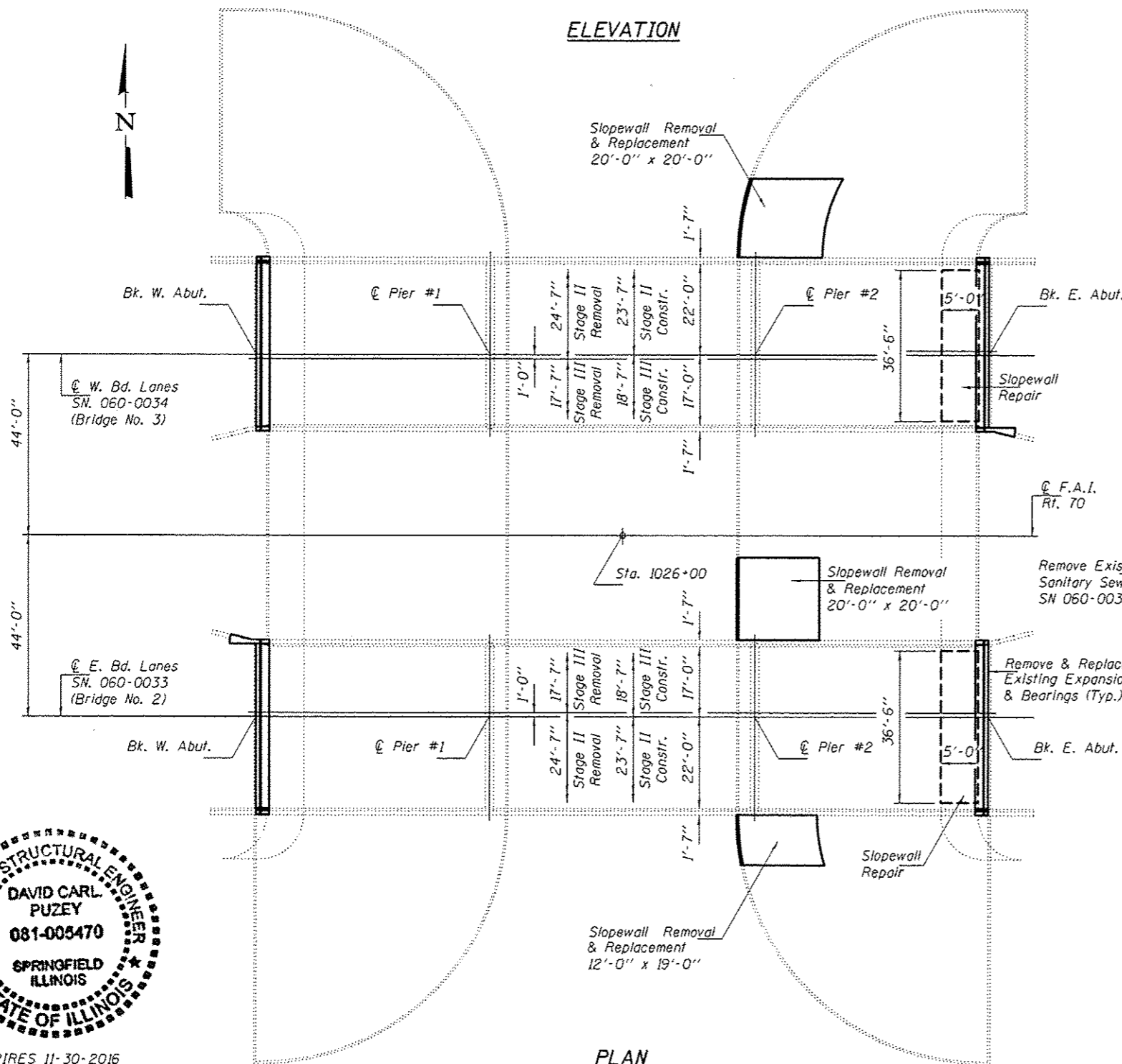
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION  
 PRAIRIE ROAD OVER FAI 70  
 SN 060-0176  
 SHEET NO. 1 OF 1 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TD	60-113,14,15(RS-3)	MADISON	226	154
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



**ELEVATION**



**PLAN**

**GENERAL NOTES**

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Reinforcement bars designated (E) shall be epoxy coated.

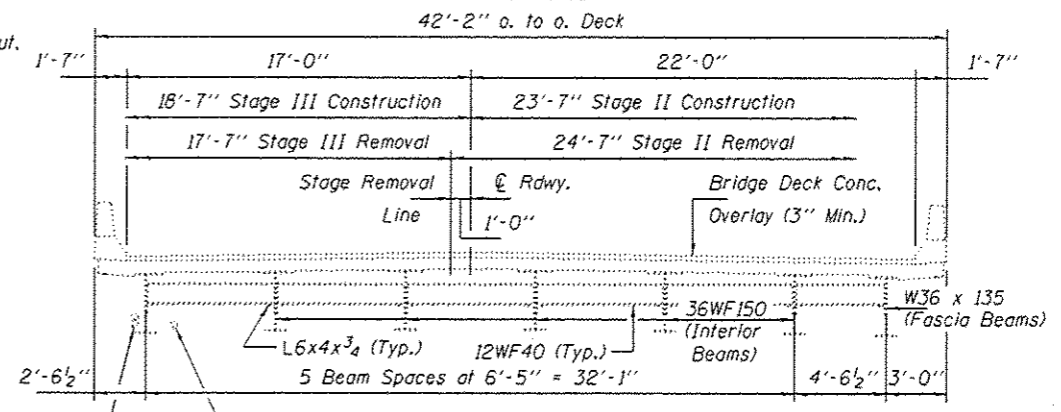
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SPI10.

The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SPI5. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Gray, Munsell No. 5B 7/1.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

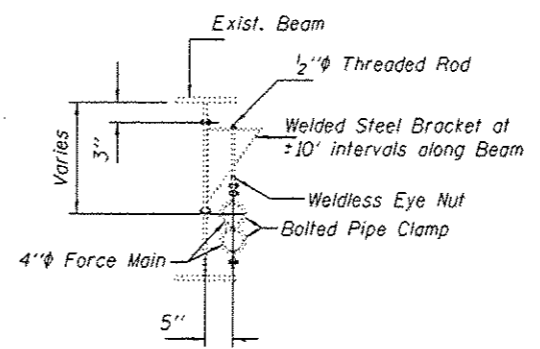


**CROSS SECTION**

(Looking East, E. Bd. Lanes)  
(Looking West, W. Bd. Lanes)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	25.5
Concrete Superstructure	Cu. Yd.	26.5
Preformed Joint Strip Seal	Foot	169
Reinforcement Bars, Epoxy Coated	Pound	3990
Bar Splicers	Each	56
Protective Coat	Sq. Yd.	58
Anchor Bolts 1"φ	Each	56
Furnishing and Erecting Structural Steel	Pound	2970
Jack & Remove Existing Bearings	Each	28
Elastomeric Bearings, Type I	Each	14
Elastomeric Bearings, Type II	Each	14
Bridge Deck Microsilica		
Concrete Overlay, 3"	Sq. Yd.	752
Bridge Deck Scarification 3"	Sq. Yd.	752
Bridge Deck Grooving	Sq. Yd.	729
Cleaning and Painting Steel Bridge No. 2	L.S.	1
Cleaning and Painting Steel Bridge No. 3	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 2	L.S.	1
Containment and Disposal of Lead Paint Cleaning Residuals, Bridge No. 3	L.S.	1
Sanitary Sewer Removal 4"	Foot	284
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	49.2
Slopewall Removal	Sq. Yd.	177
Slopewall 6 Inch	Sq. Yd.	177



**EXISTING SEWER MAIN SUPPORT**

Existing Sewer Main and Sewer Main Support to be removed. Plug all holes in Existing Beam web with equal size bolts. Cost included with Sanitary Sewer Removal 4".



DESIGNED *Tom L. Clark (ATH)*  
CHECKED *Adrian i. Hallaway*  
DRAWN *J. Schneller*  
CHECKED *TLC ATH*

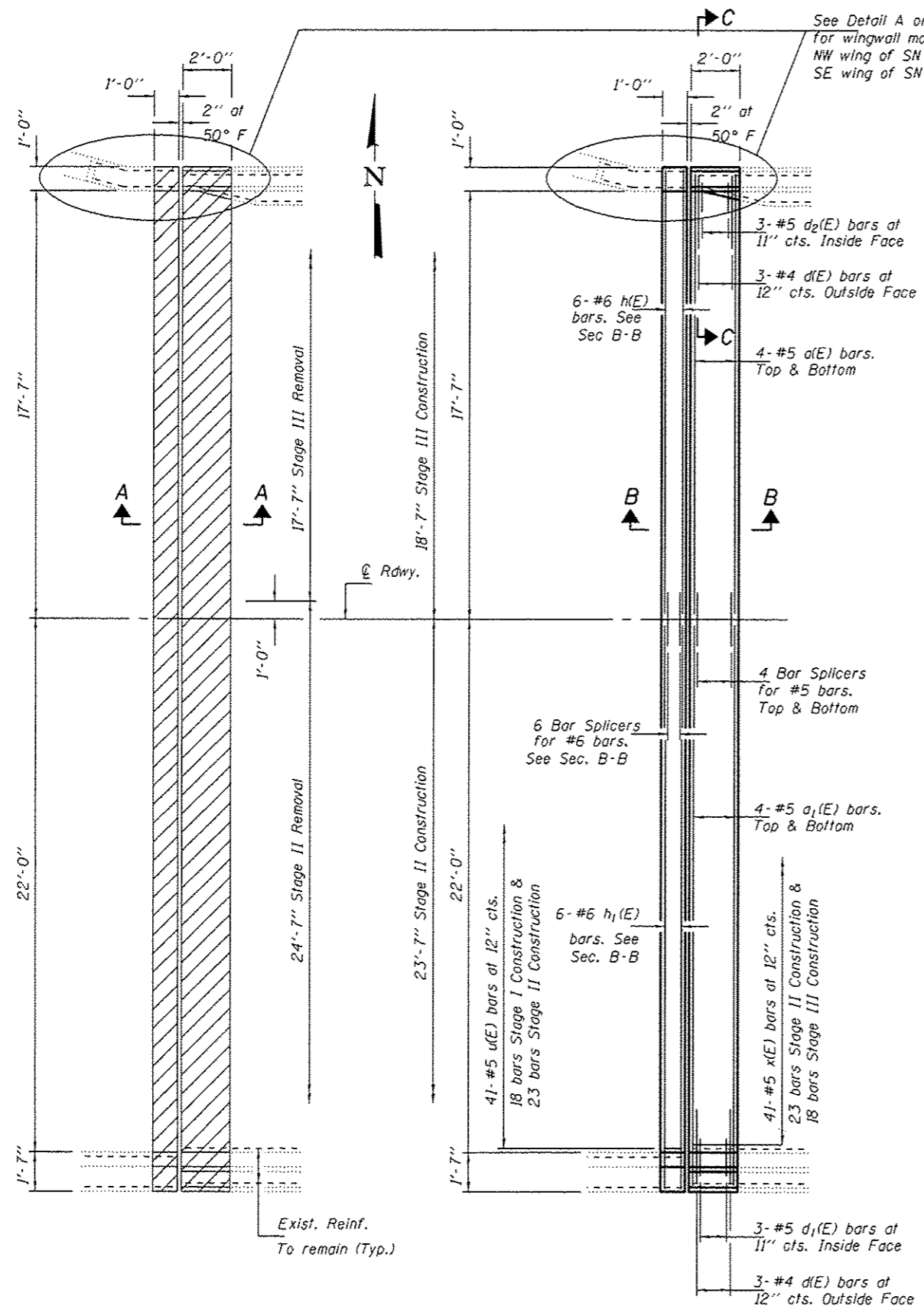
PASSED  
*David Carl Puzey*  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE **MAY 14, 2015**  
REVISED  
REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

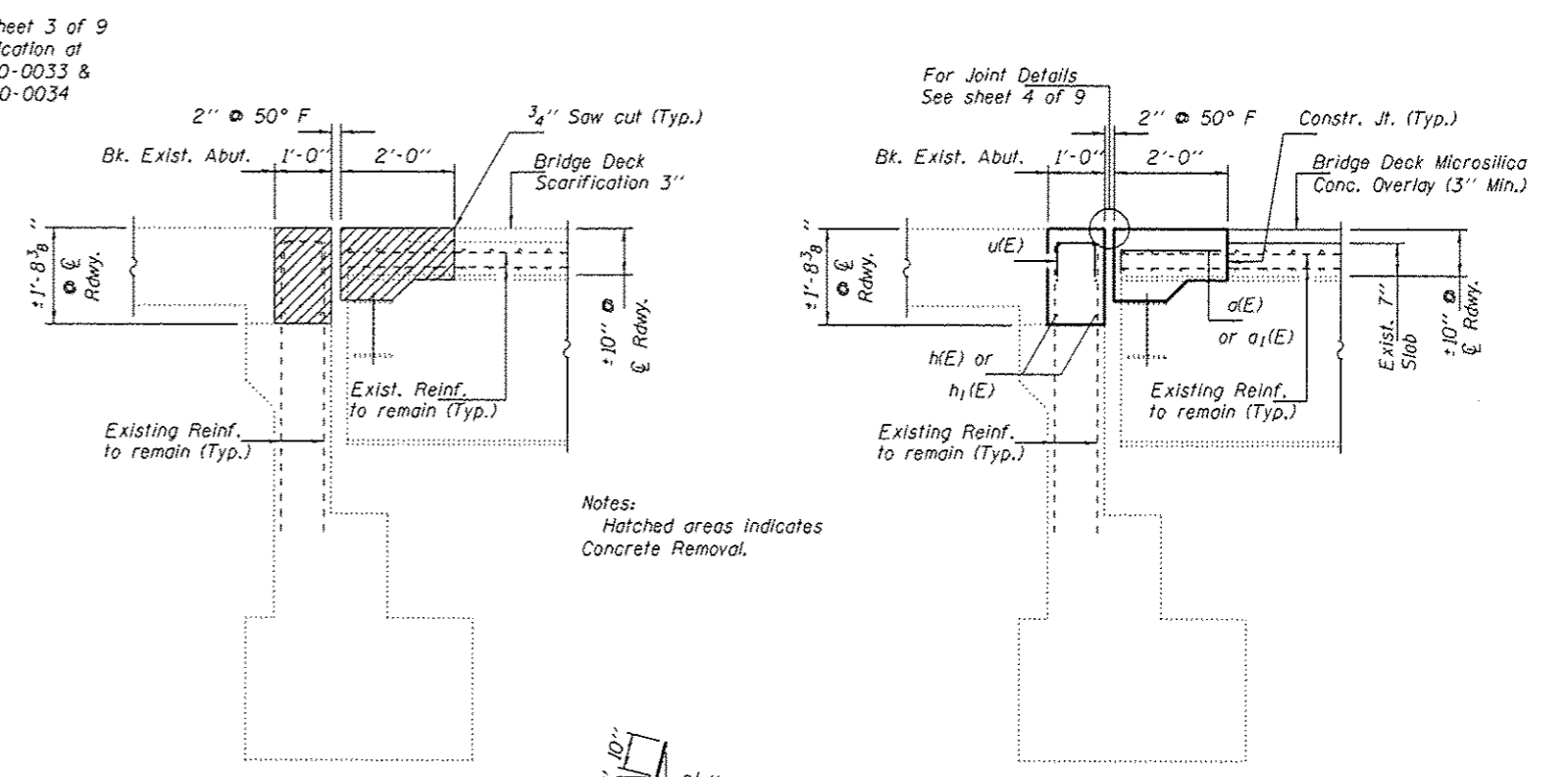
**PLAN AND ELEVATION**  
**F.A.I. RT. 70 OVER SILVER LAKE**  
**SN 060-0033 & 060-0034**  
SHEET NO. 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15/RS-3	MADISON	226	155
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



**REMOVAL PLAN**  
West Abutment, Str. No. 060-0033 shown  
(Others Similar)

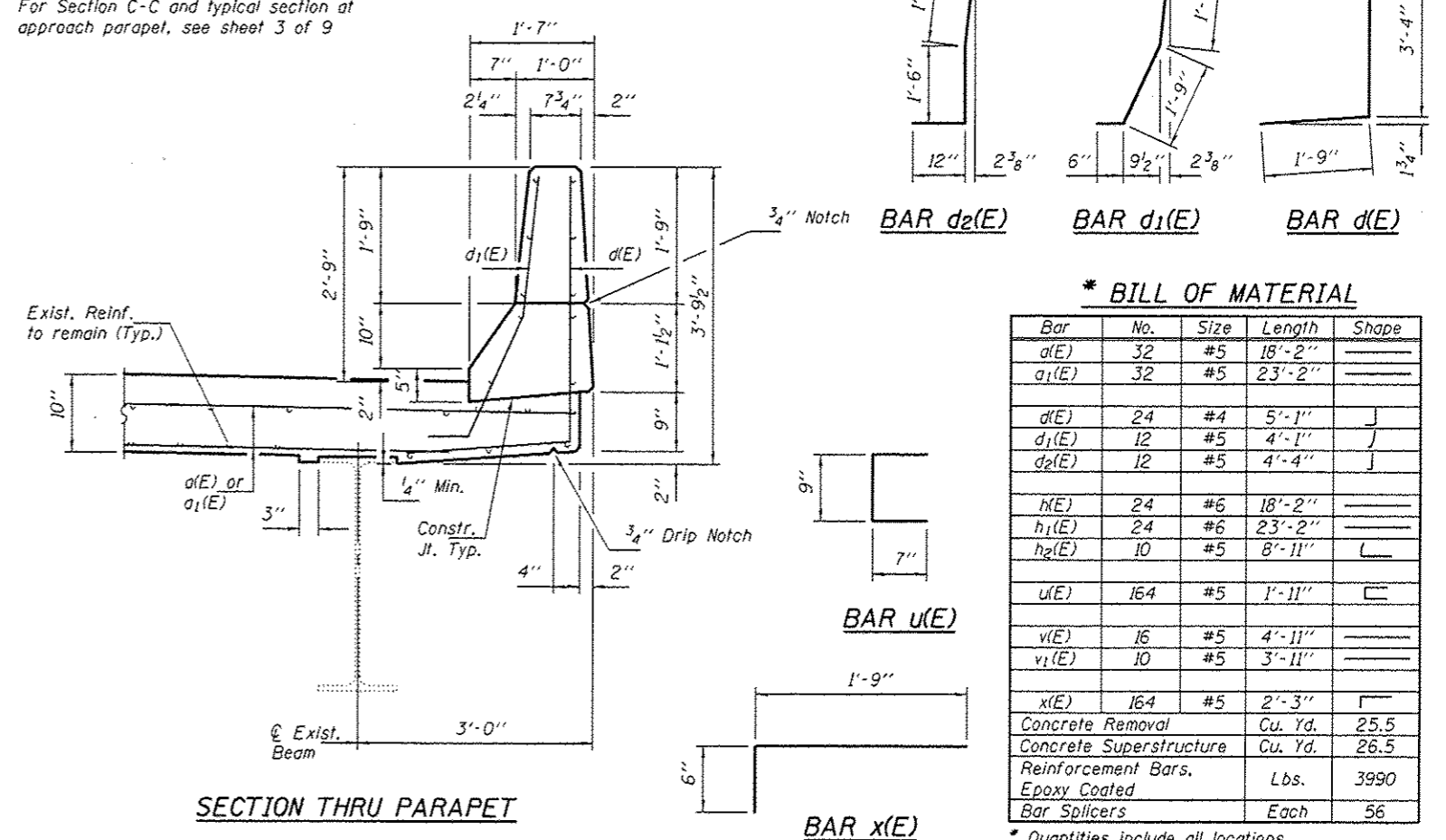
**REPLACEMENT PLAN**  
West Abutment, Str. No. 060-0033 shown  
(Others Similar)



**SECTION A-A**  
(Near Rdwy.)

**SECTION B-B**  
(Near Rdwy.)

For Section C-C and typical section at approach parapet, see sheet 3 of 9



**SECTION THRU PARAPET**

**\* BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	32	#5	18'-2"	—
a <sub>1</sub> (E)	32	#5	23'-2"	—
d(E)	24	#4	5'-1"	J
d <sub>1</sub> (E)	12	#5	4'-1"	J
d <sub>2</sub> (E)	12	#5	4'-4"	J
h <sub>1</sub> (E)	24	#6	18'-2"	—
h <sub>2</sub> (E)	24	#6	23'-2"	—
h <sub>2</sub> (E)	10	#5	8'-11"	L
u(E)	164	#5	1'-11"	□
v(E)	16	#5	4'-11"	—
v <sub>1</sub> (E)	10	#5	3'-11"	—
x(E)	164	#5	2'-3"	□
Concrete Removal			Cu. Yd.	25.5
Concrete Superstructure			Cu. Yd.	26.5
Reinforcement Bars, Epoxy Coated			Lbs.	3990
Bar Splicers			Each	56

\* Quantities include all locations.

DESIGNED - TLC  
CHECKED - ATH  
DRAWN - J. Schneller  
CHECKED - TLC ATH

DATE MAY 14, 2015  
PASSED  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

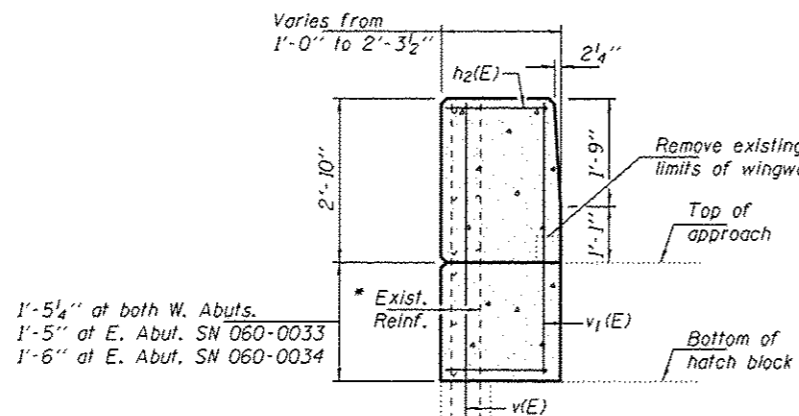
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS  
SN 060-0033 & 060-0034  
SHEET NO. 2 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15/RS-3	MADISON	226	156

CONTRACT NO. 76F94  
ILLINOIS FED. AID PROJECT

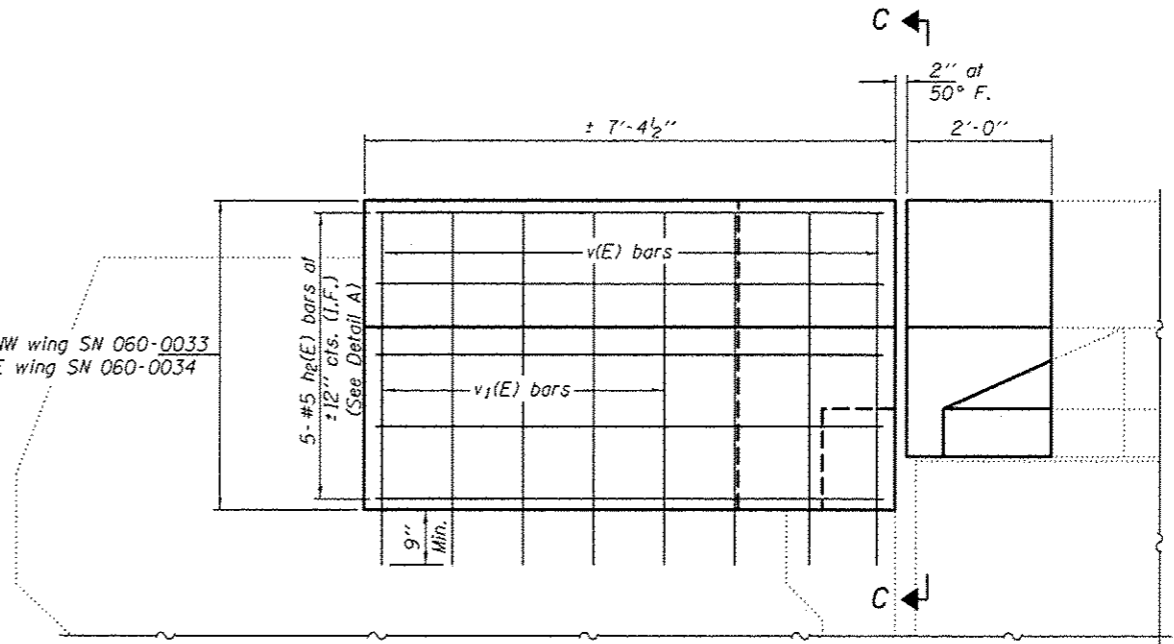




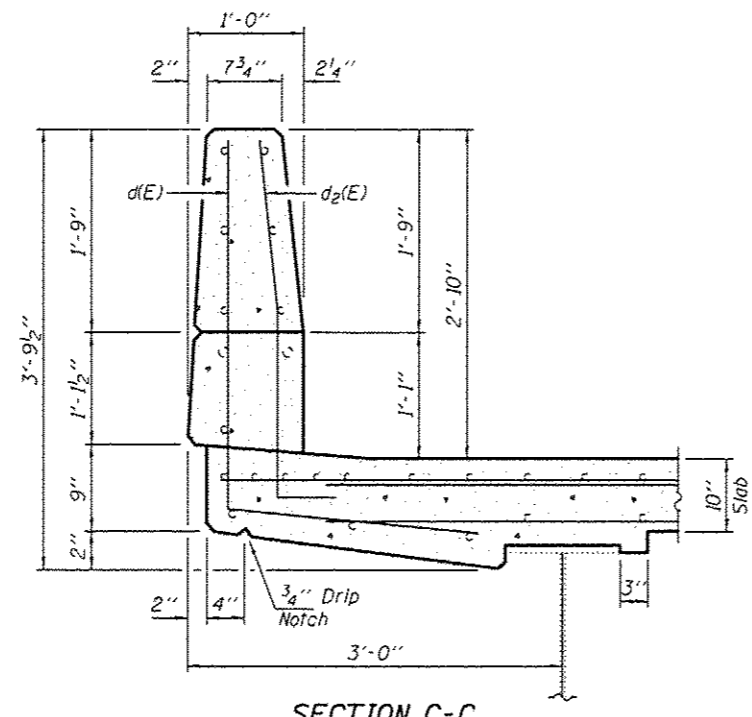
**TYPICAL SECTION AT APPROACH PARAPET**

- \* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- \*\* Epoxy grout  $v(E)$  bars in 9" min. holes according to Article 584 of the Standard Specifications.

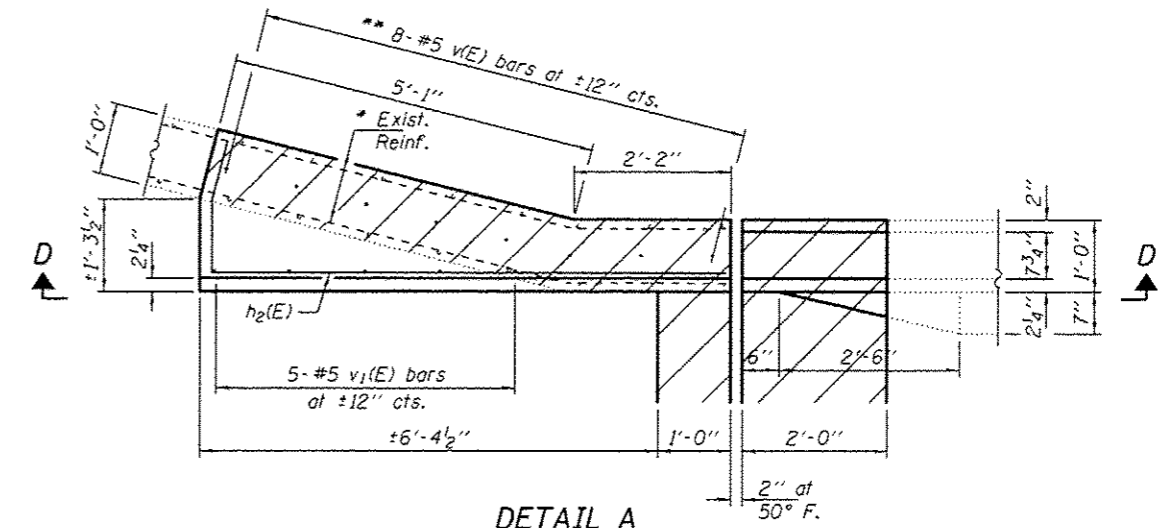
4'-3 1/4" of NW wing SN 060-0033  
4'-4" at SE wing SN 060-0034



**SECTION D-D**  
Parapet, Deck & Hatchblock reinforcement not shown for clarity.



**SECTION C-C**



**DETAIL A**  
Typ. at NW wing SN 060-0033 & SE wing SN 060-0034  
Parapet, Deck & Hatchblock reinforcement not shown for clarity.

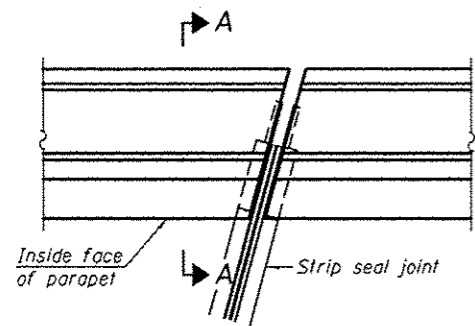
DESIGNED - TLC
CHECKED - ATH
DRAWN - baliva
CHECKED - TLC ATH

PASSED	DATE MAY 14, 2015
<i>Carl Perry</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
	REVISED

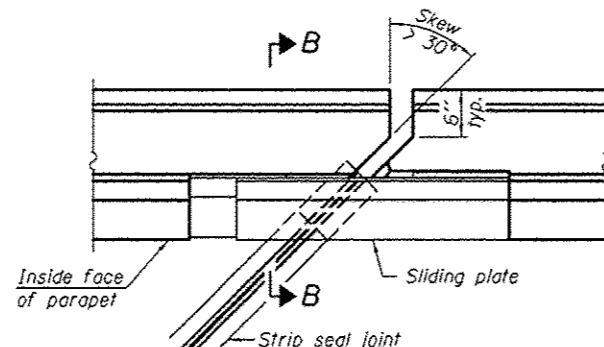
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS  
SN 060-0033 & 060-0034  
SHEET NO. 3 OF 9 SHEETS

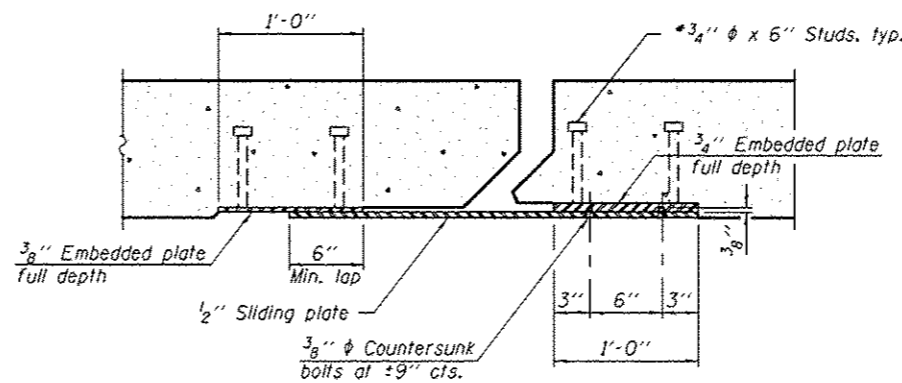
F.A.I. RTE. TO	SECTION 60-113.14.15RS-3	COUNTY MADISON	TOTAL SHEETS 226	SHEET NO. 157
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



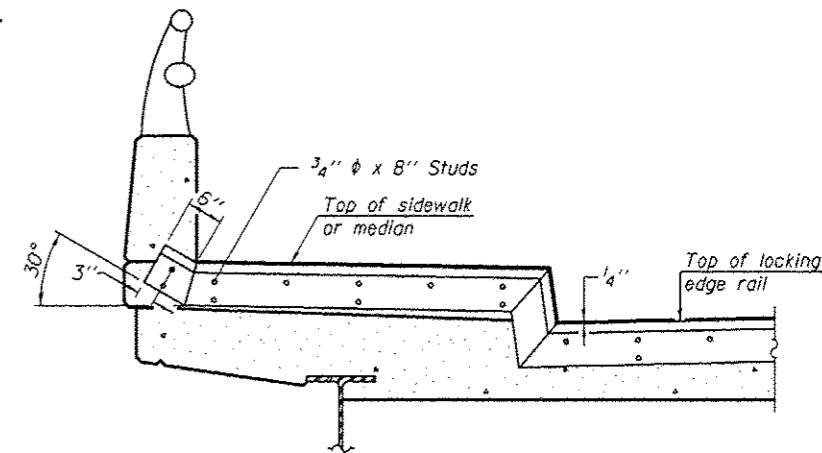
**PLAN**  
(For skews  $\leq 30^\circ$ )



**PLAN**  
(For skews  $> 30^\circ$ )  
Showing point black

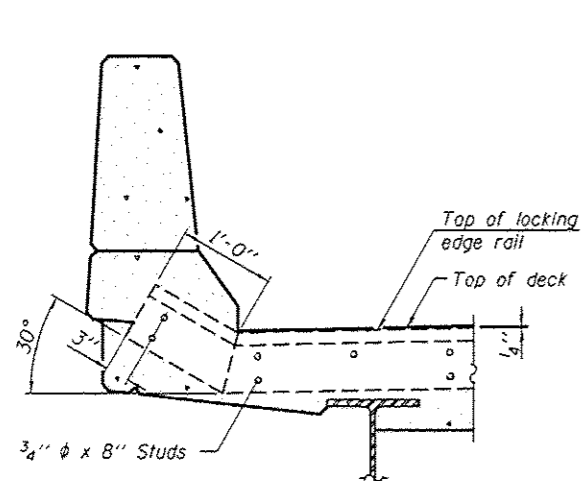


**SECTION C-C**

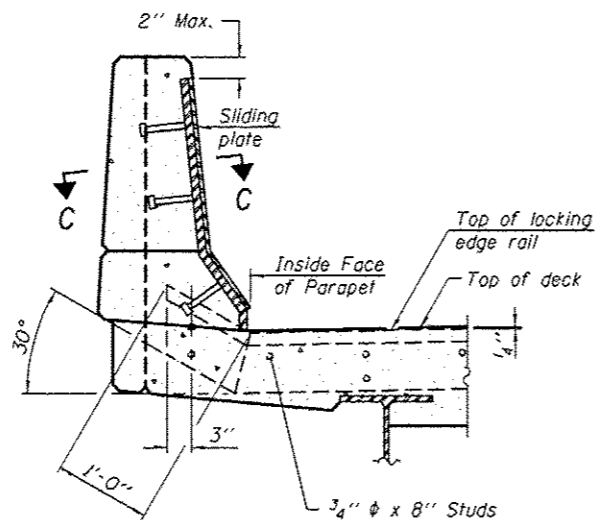


**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**

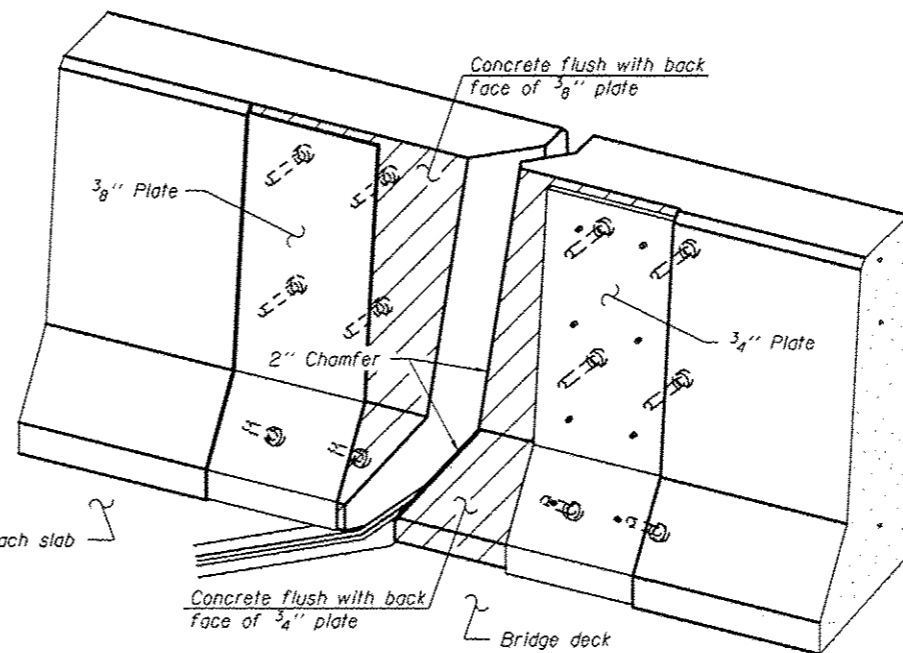
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**SECTION A-A**



**SECTION B-B**



**TRIMETRIC VIEW**  
(Showing back plates only)

**Notes:**  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

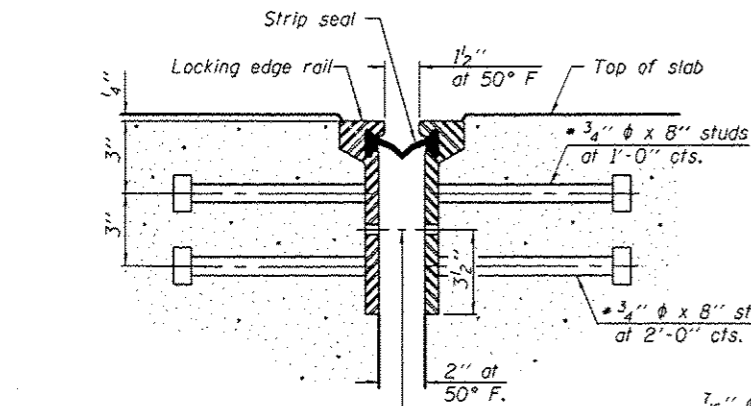
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

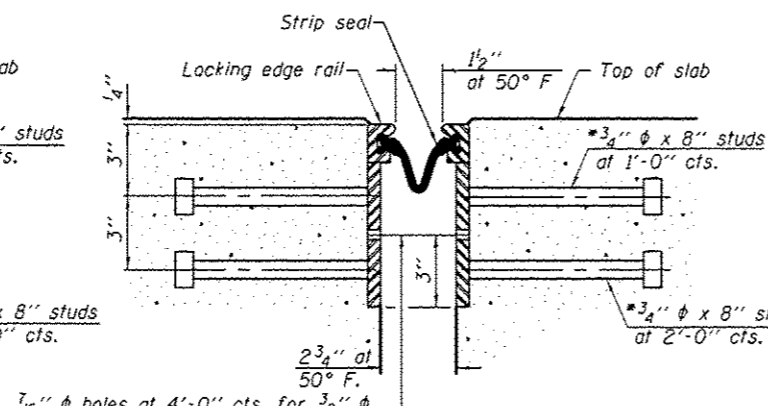
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.



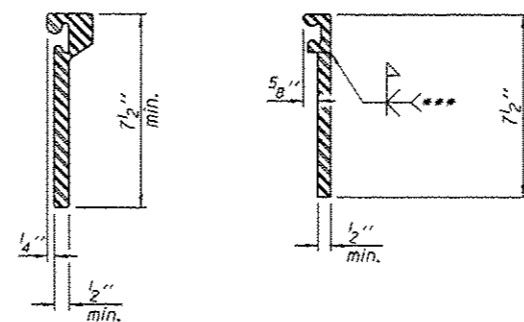
**SECTION THRU ROLLED RAIL JOINT**



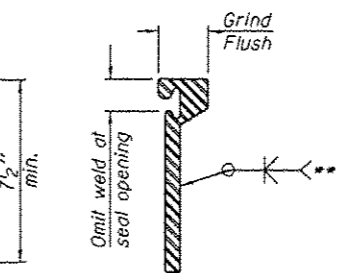
**SECTION THRU WELDED RAIL JOINT**

7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.



**ROLED EXTRUDED RAIL**      **WELDED RAIL**



**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

\*\*\* Back gouge not required if complete joint penetration is verified by mock-up.

**LOCKING EDGE RAILS**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	169

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

EJ-SSJ 1-27-12

DESIGNED - TLC  
CHECKED - ATH  
DRAWN - J. Schneller  
CHECKED - TLC ATH

PASSED  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

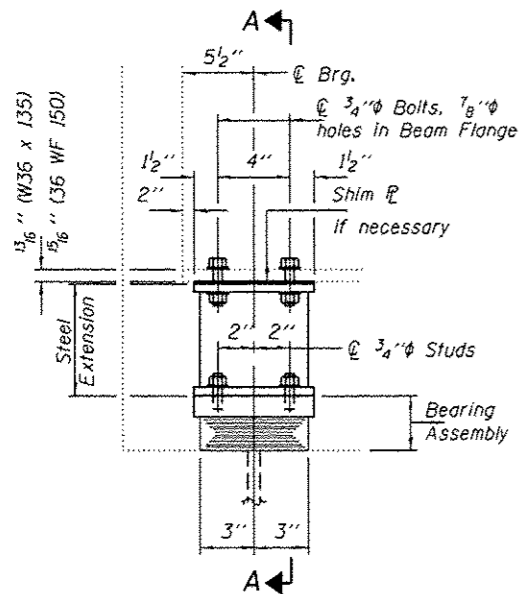
DATE MAY 14, 2015  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
SN 060-0033 & 060-0034

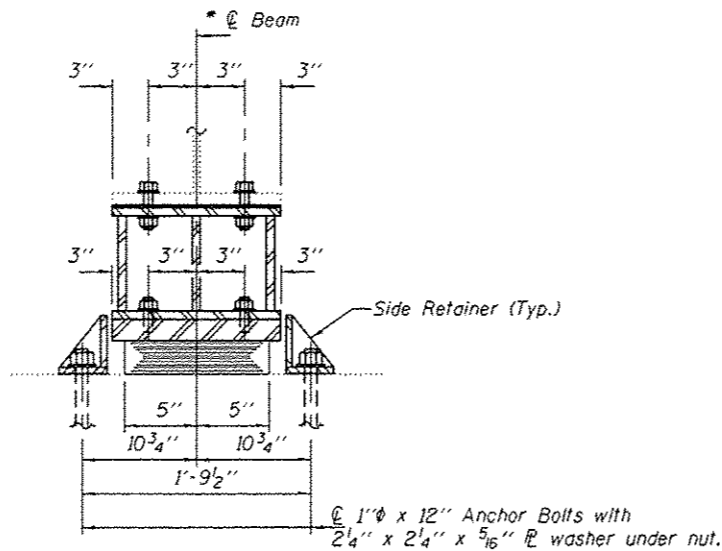
SHEET NO. 4 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14,15RS-3	MADISON	226	158
				CONTRACT NO. 76F94
ILLINOIS FED. AID PROJECT				



ELEVATION AT EAST ABUTMENTS

TYPE I ELASTOMERIC EXP. BRG.

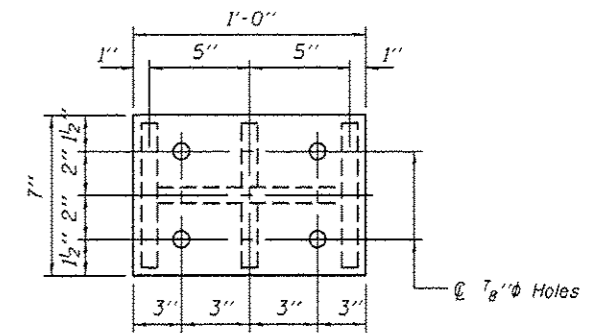


SECTION A-A

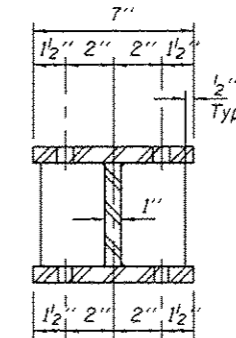
BEAM REACTIONS

R <sub>P</sub>	(K)	19.5
R <sub>L</sub>	(K)	24.9
Imp.	(K)	6.9
R (Total)	(K)	51.3

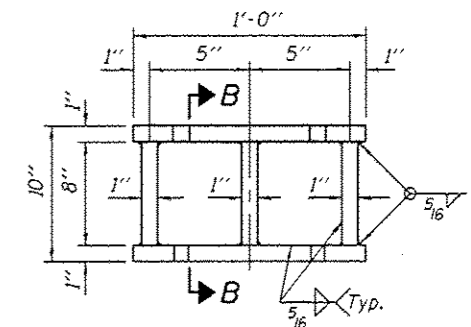
Notes:  
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 30 Tons.  
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type I.



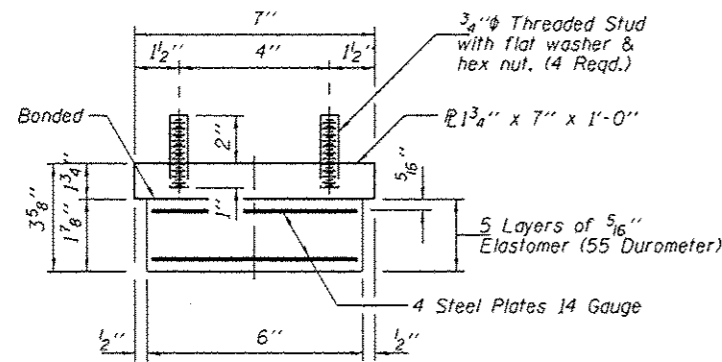
PLAN TOP AND BOTTOM PLATE



SECTION B-B

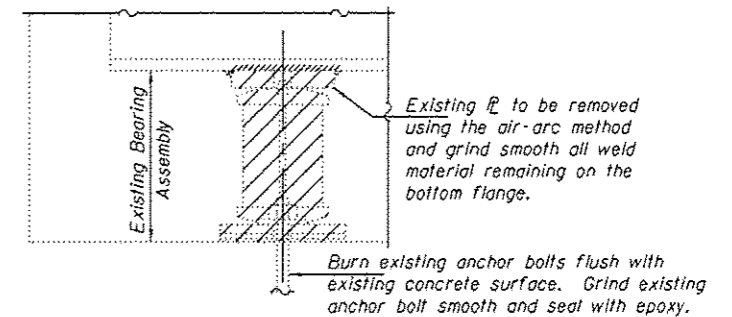


STEEL EXTENSION DETAIL



BEARING ASSEMBLY

Note:  
 Shim plates shall not be placed under Bearing Assembly.

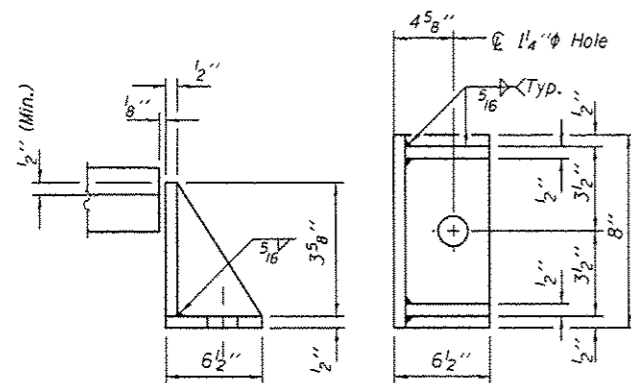


EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL EAST ABUTMENTS

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	14
Jack and Remove Existing Bearings	Each	14
Furnishing and Erecting Structural Steel	Pound	1530
Anchor Bolts 1"φ	Each	28



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

TYI/REPS 12-03-2008

DESIGNED - TLC
CHECKED - ATH
DRAWN - J. Schneller
CHECKED - TLC ATH

PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

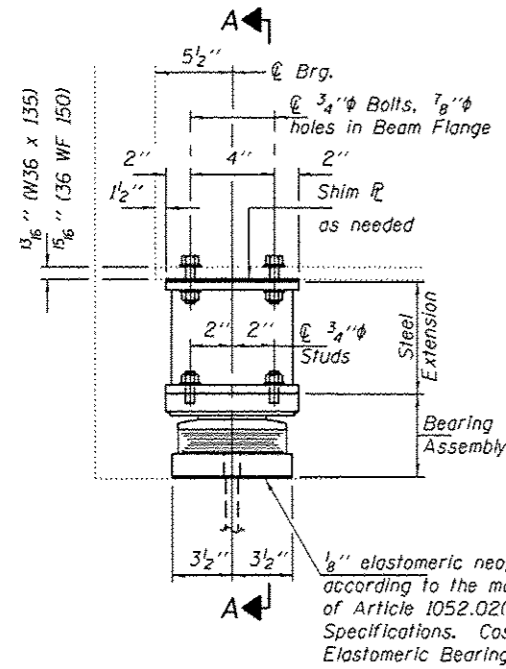
DATE	MAY 14, 2015
REVISED	
REVISED	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARING ASSEMBLY TYPE I  
 EAST ABUTMENTS SN 060-0033 & 060-0034

SHEET NO. 5 OF 9 SHEETS

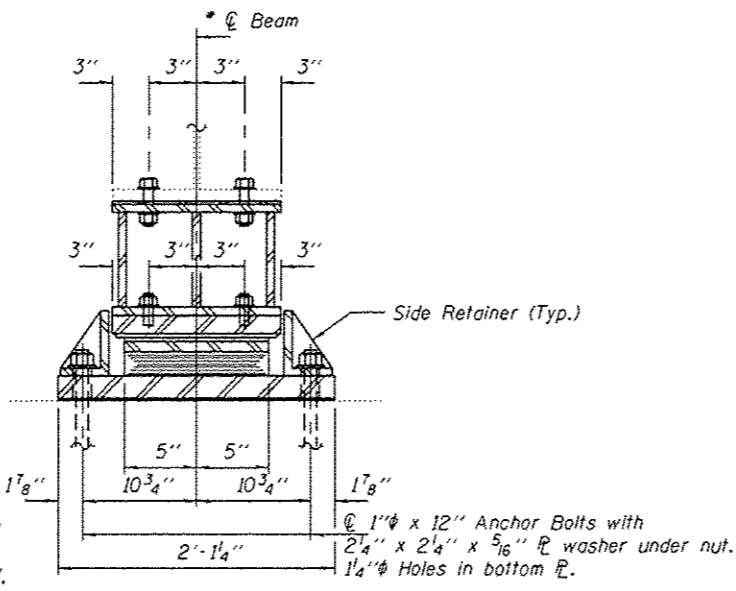
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.15/R5-3	MADISON	226	159
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



**ELEVATION AT WEST ABUTMENTS**

**TYPE II TFE ELASTOMERIC EXP. BRG.**

For locations see Framing Plan sheet #4 of 7.

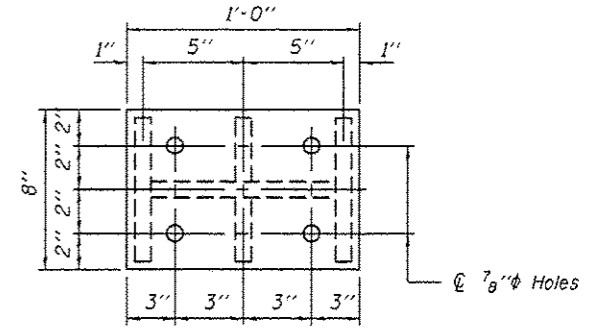


**SECTION A-A**

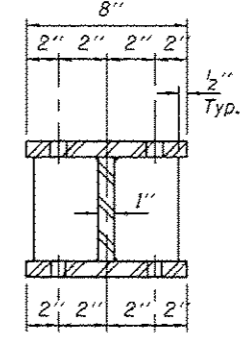
**BEAM REACTIONS**

R <sub>E</sub>	(K)	19.5
R <sub>L</sub>	(K)	24.9
Imp.	(K)	6.9
R (Total)	(K)	51.3

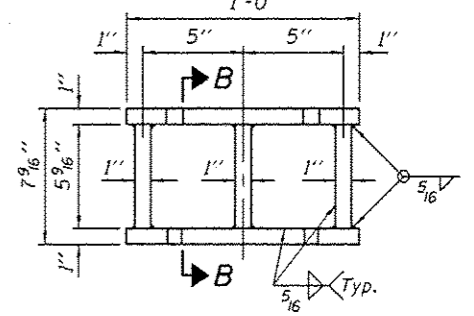
Notes:  
 Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
 New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
 Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Min. jack capacity = 30 Tons.  
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Anchor bolts of fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place. Side retainers shall be placed after bolts are installed.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.  
 The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.  
 Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



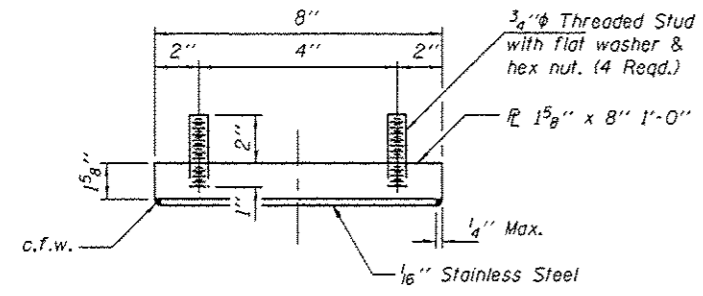
**PLAN TOP AND BOTTOM PLATE**



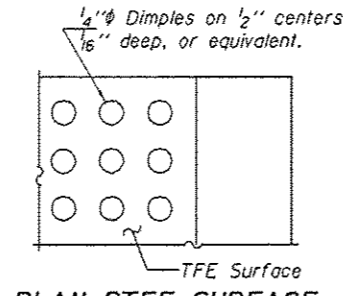
**SECTION B-B**



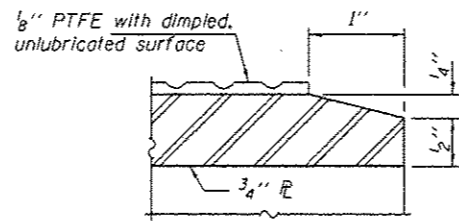
**STEEL EXTENSION DETAIL**



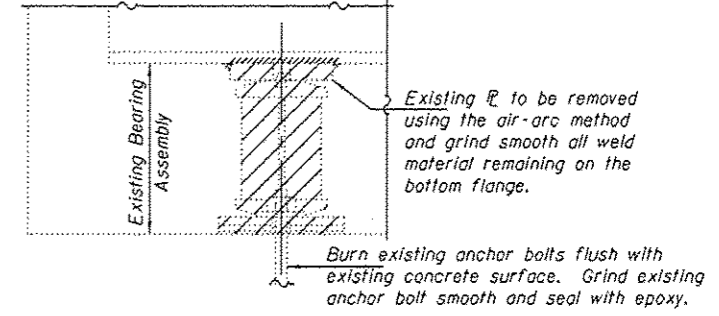
**TOP BEARING ASSEMBLY**



**PLAN-PTFE SURFACE**

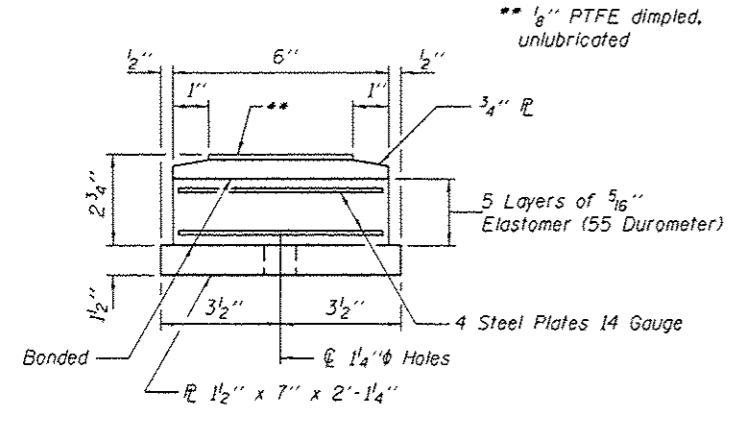


**SECTION THRU PTFE**

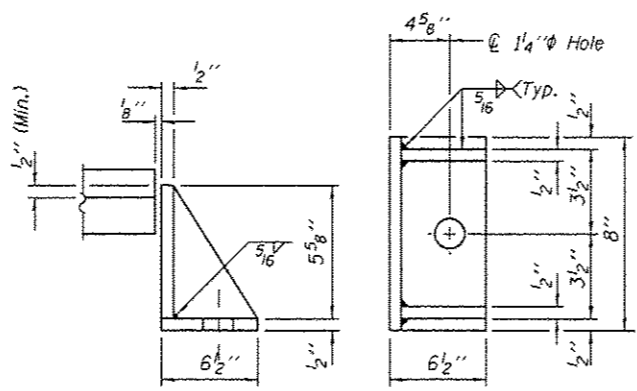


**EXISTING BEARING REMOVAL DETAIL**

Cost included with Jack and Remove Existing Bearings.

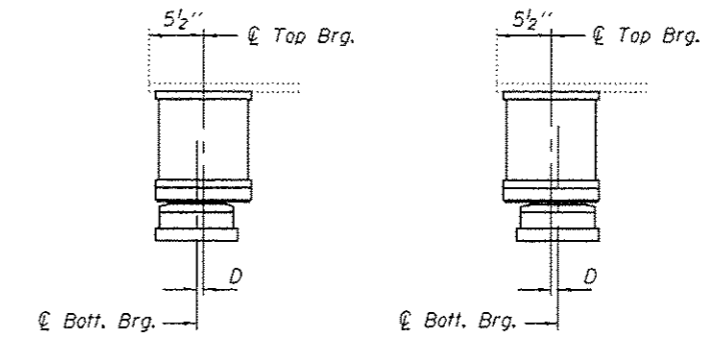


**BOTTOM BEARING ASSEMBLY**



**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**SETTING ANCHOR BOLTS AT EXP. BRG.**

D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

**BILL OF MATERIAL WEST ABUTMENTS**

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	14
Jack and Remove Existing Bearings	Each	14
Furnishing and Erecting Structural Steel	Pound	1440
Anchor Bolts 1"φ	Each	28

TYII/REPS 12-03-2008

DESIGNED - TLC	CHECKED - ATH
DRAWN - J. Schneller	CHECKED - TLC ATH

PASSED	DATE MAY 14, 2015
ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR

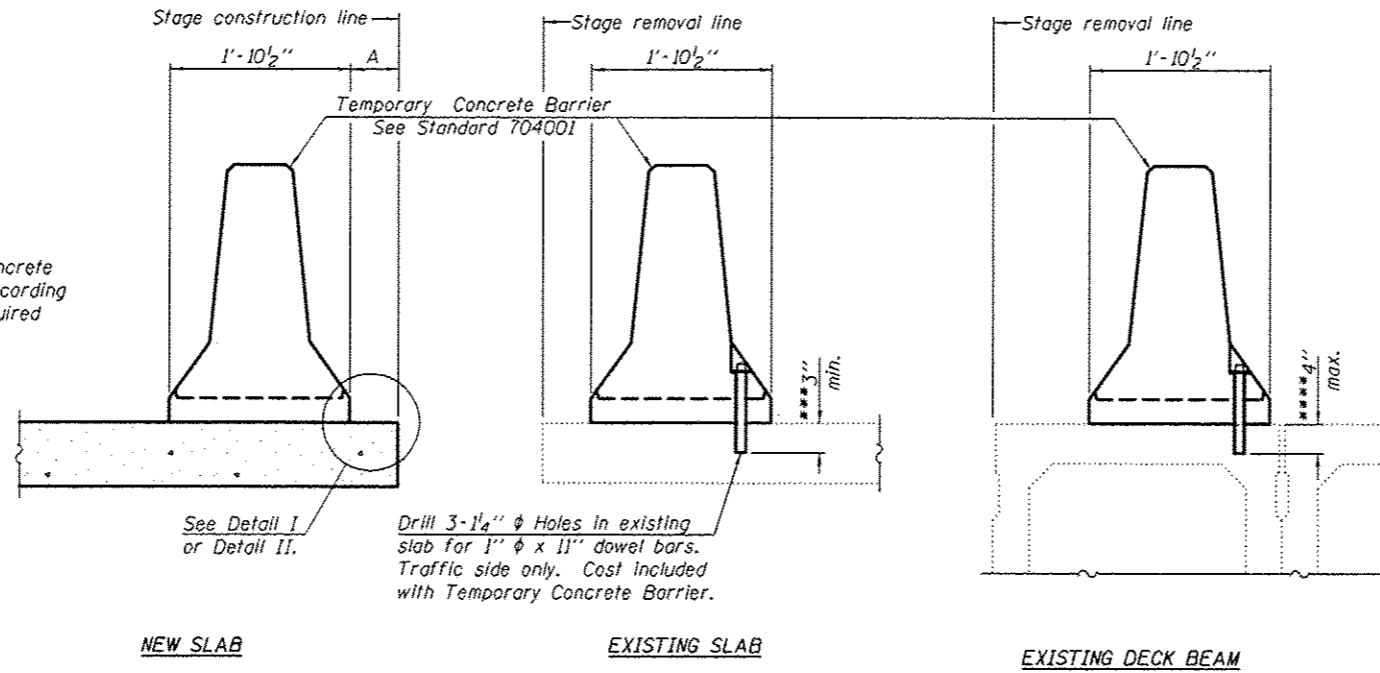
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ELASTOMERIC BEARING ASSEMBLY TYPE II WEST ABUTMENTS SN 060-0033 & 060-0034

SHEET NO. 6 OF 9 SHEETS

F.A.I. RTE. 70	SECTION 60-(13.14.15)RS-3	COUNTY MADISON	TOTAL SHEETS 226	SHEET NO. 160
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

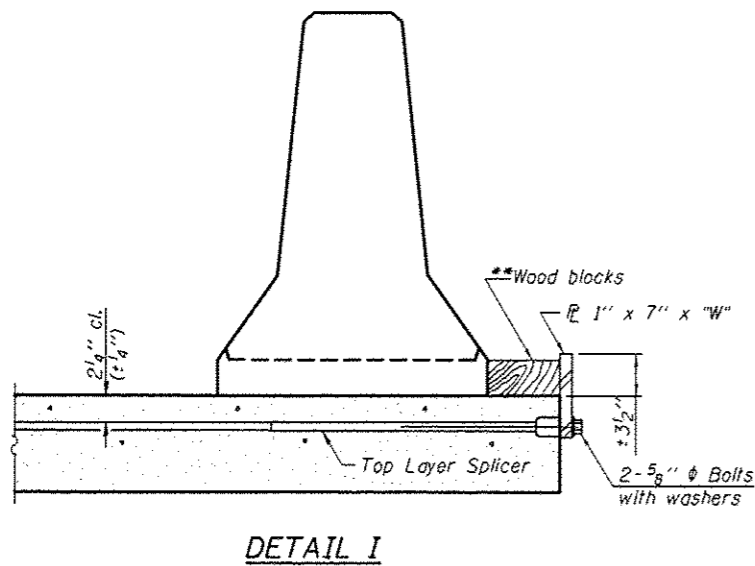
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

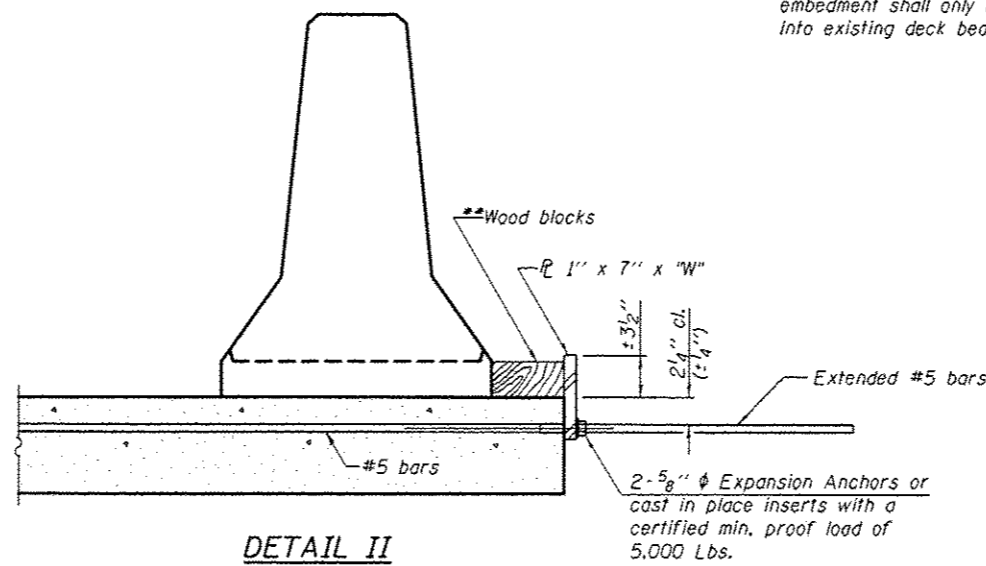
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



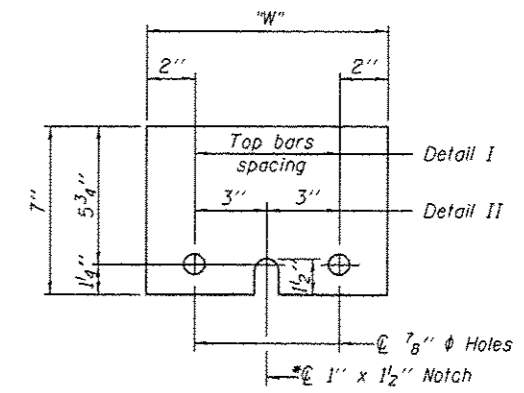
**DETAIL I**



**DETAIL II**

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



**STEEL RETAINER  $\bar{L}$  1" x 7" x "W"**

\* Required only with Detail II

R-27

7-1-10

DESIGNED - TLC  
CHECKED - ATH  
DRAWN - J. Schneller  
CHECKED - TLC ATH

PASSED

*J. Carl Pappas*  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

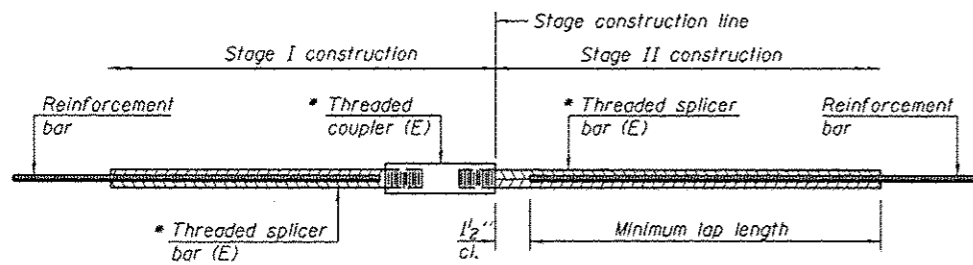
DATE MAY 14, 2015  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
SN 060-0033 & 060-0034

SHEET NO. 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	MADISON	226	161
CONTRACT NO. T6F94			ILLINOIS FED. AID PROJECT	

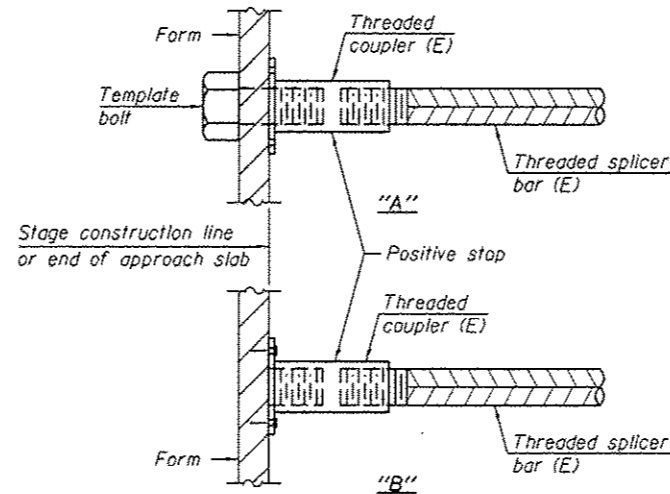


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut. Hatch Block	#6	12	4'-0"
W. End of Deck	#5	16	3'-6"
E. Abut. Hatch Block	#6	12	4'-0"
E. End of Deck	#5	16	3'-6"

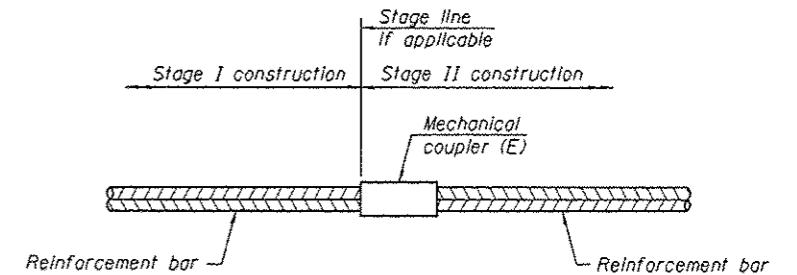


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

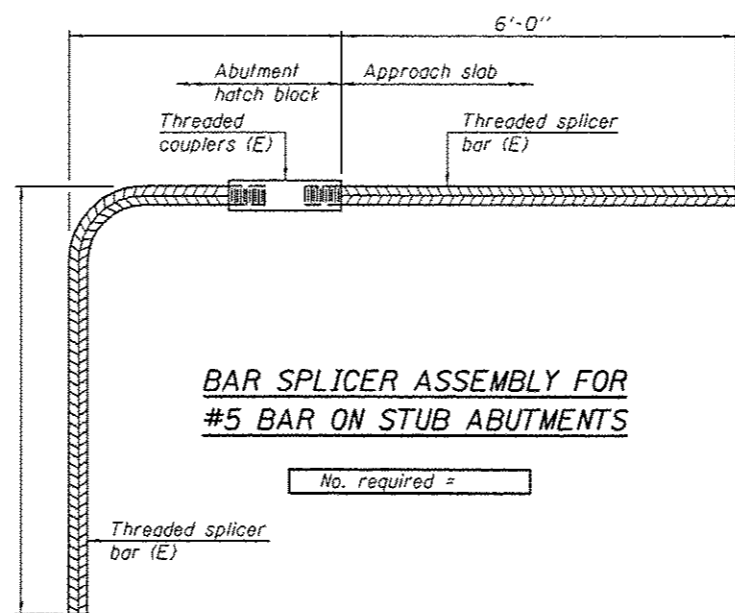
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with Threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 6-8-15

DESIGNED - TLC  
 CHECKED - ATH  
 DRAWN - J. Schneller  
 CHECKED - TLC ATH

PASSED  
  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

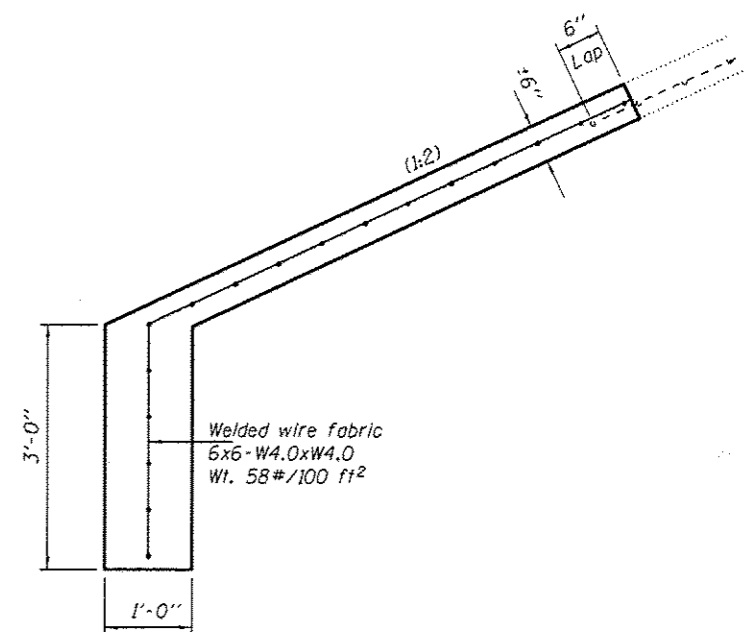
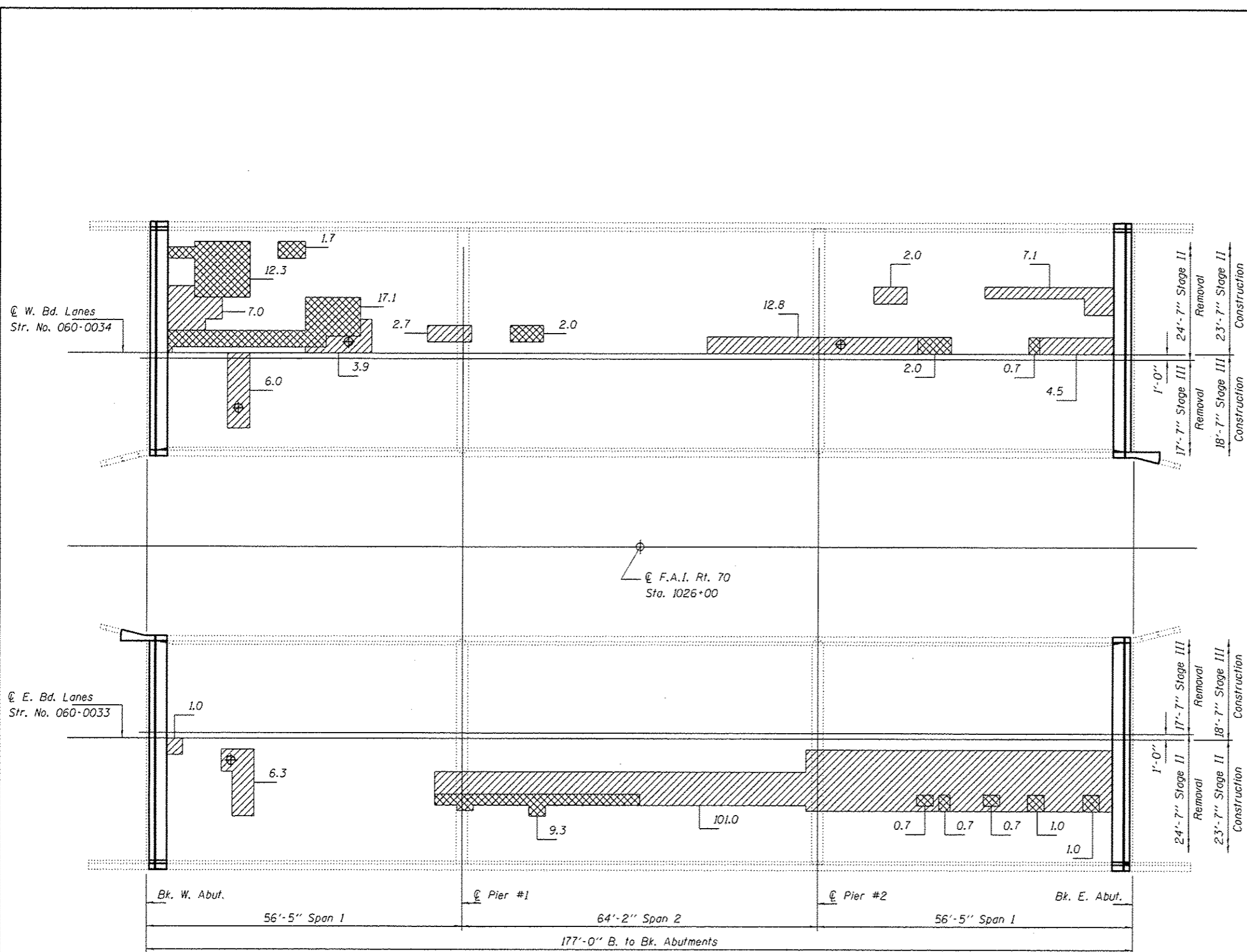
DATE MAY 14, 2015  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

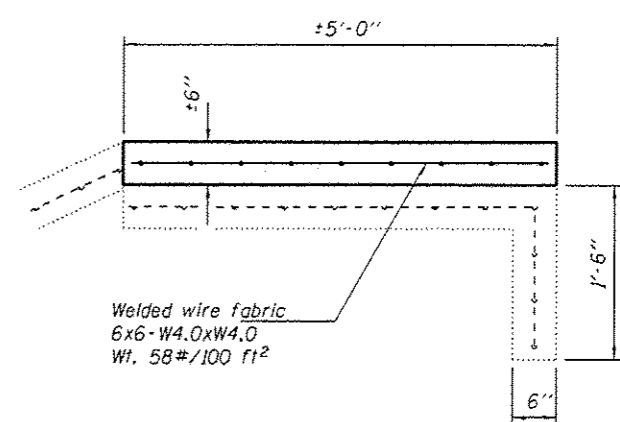
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 SN 060-0033 & 060-0034

SHEET NO. 8 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.15RS-3	MADISON	226	162
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



SLOPEWALL REPAIR DETAIL A

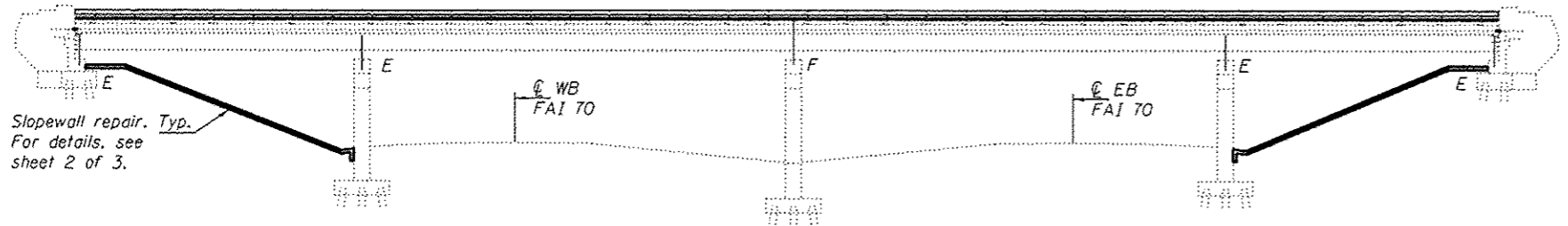


SLOPEWALL REPAIR DETAIL B  
 (Pour new Slope wall on top of Existing Slope wall.)

PLAN

- Deck Slab Repair (Partial), Sq. Yd. (For Information only.)
- Deck Slab Repair (Full Depth, Type II), Sq. Yd.
- Deck Core location

DESIGNED - TLC	EXAMINED	DATE MAY 14, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DECK REPAIRS SN 060-0033 & 060-0034		F.A.I. RTE. 70	SECTION 60-(13,14,15)RS-3	COUNTY MADISON	TOTAL SHEETS 226	SHEET NO. 163
CHECKED - ATH	PASSED <i>J. Carl Papp</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			SHEET NO. 9 OF 9 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 76F94		

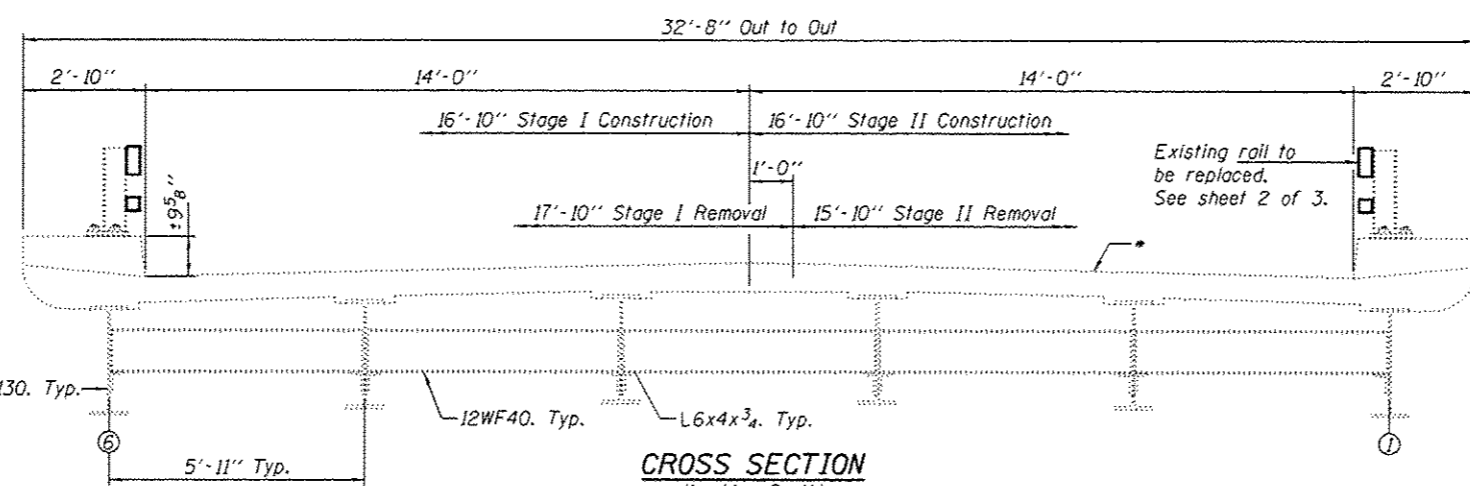
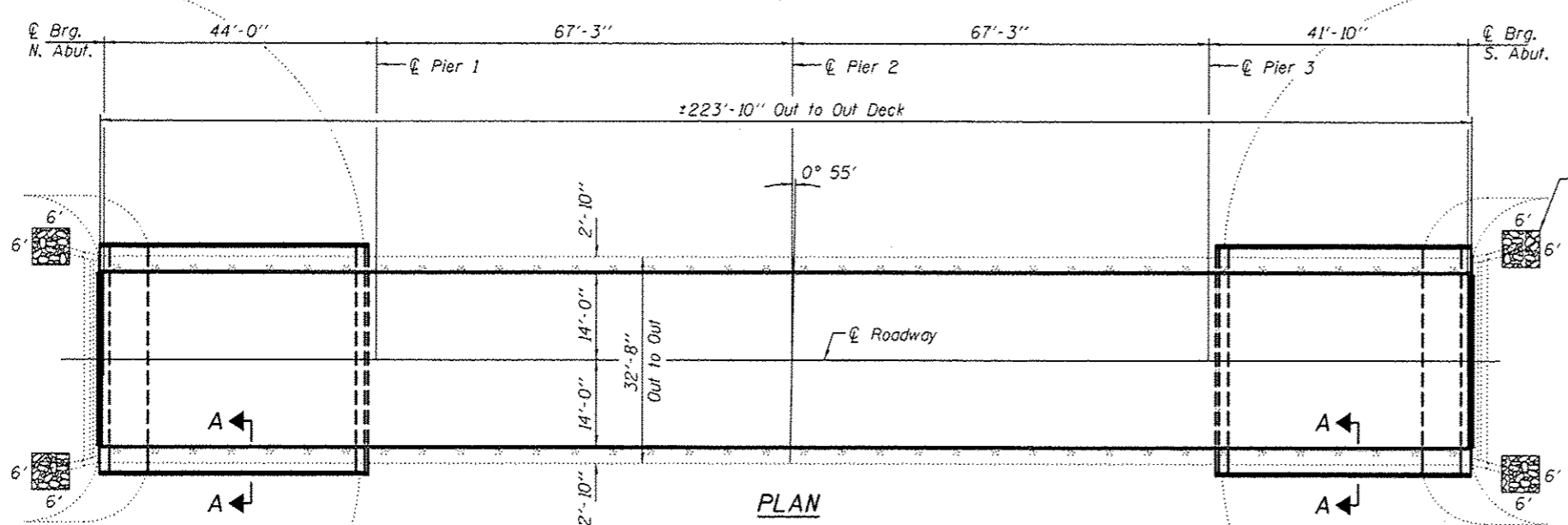
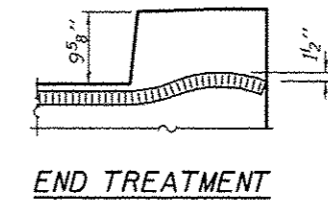
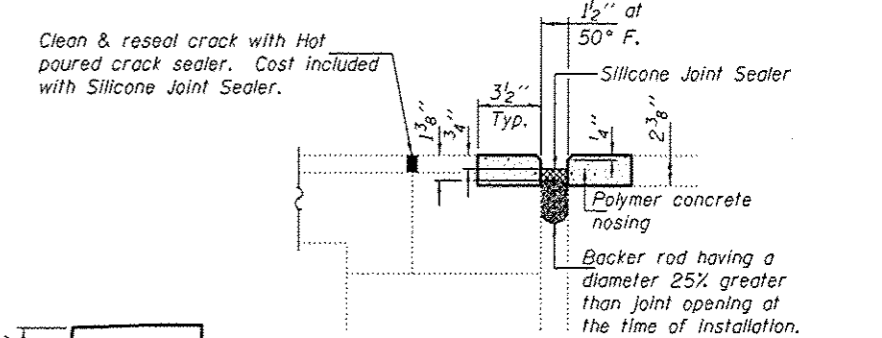


**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Gray, Munsell No. 5B 7/1.



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Bridge Deck Concrete Sealer	Sq. Ft.	7870
Stone Riprap, Class A5	Sq. Yd.	16
Cleaning and Painting Steel Bridge No. 4	L.S.	1
Containment and Disposal of Lead	L.S.	1
Paint Cleaning Residuals, Bridge No. 4	L.S.	1
Polymer Concrete	Cu. Ft.	6.5
Silicone Joint Sealer, 1.5"	Foot	66
Slopewall Removal	Sq. Yd.	374
Slopewall 4"	Sq. Yd.	374
Bridge Rail Removal	Foot	444
Steel Railing, Type 2399	Foot	444
Filter Fabric	Sq. Yd.	16



EXPIRES 11-30-2016

DESIGNED: *David Carl Puzey*  
 CHECKED: *Stephen M. Ryan*  
 DRAWN: *baliva*  
 CHECKED: *CCC SMR*

PASSED: *David Carl Puzey*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

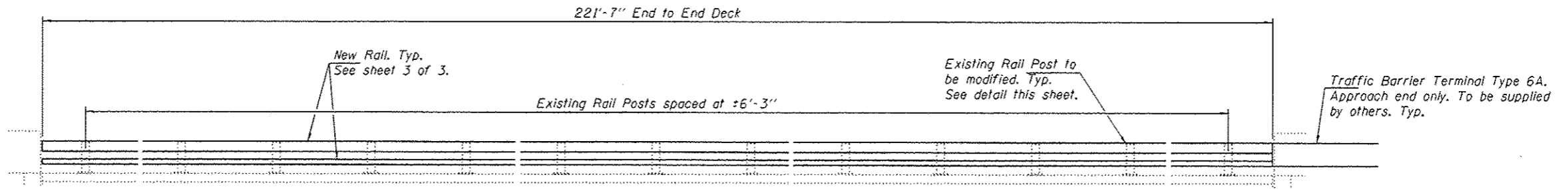
DATE: MAY 14, 2015  
 REVISED: \_\_\_\_\_  
 REVISED: \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION  
 1160 OVER FAI 70  
 SN 060-0132  
 SHEET NO. 1 OF 3 SHEETS

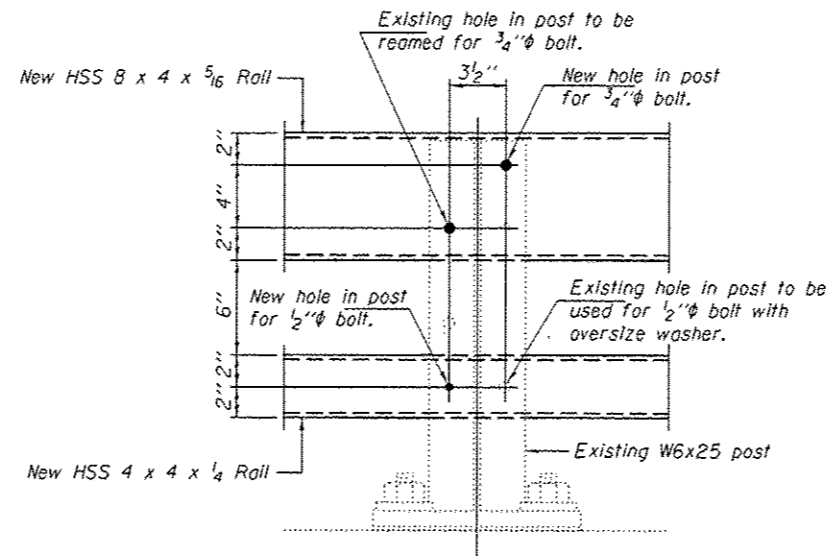
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-115,14,15,16-3	MAISON	226	164
CONTRACT NO. T6F94			ILLINOIS FED. AID PROJECT	



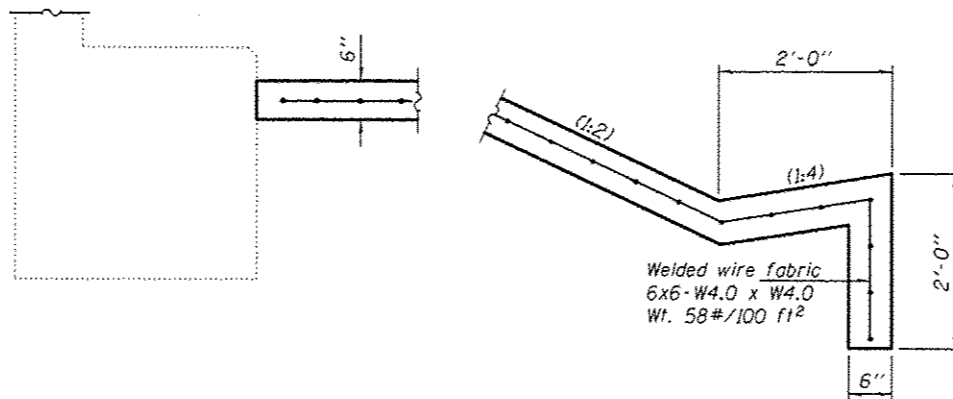


**RAIL MODIFICATION DETAIL**

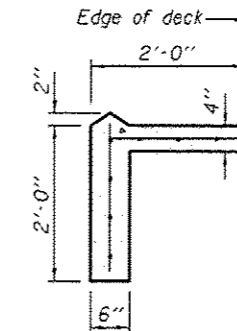
Notes:  
 Existing top and bottom rail elements to be removed.  
 New top and bottom rail elements to be attached.



**EXISTING RAIL POST MODIFICATION DETAIL**



**SLOPEWALL REPAIR DETAIL**



**SECTION A-A**

**BILL OF MATERIAL**

Item	Unit	Quantity
Bridge Rail Removal	Foot	444

DESIGNED CCC  
 CHECKED SMR  
 DRAWN baliva  
 CHECKED CCC SMR

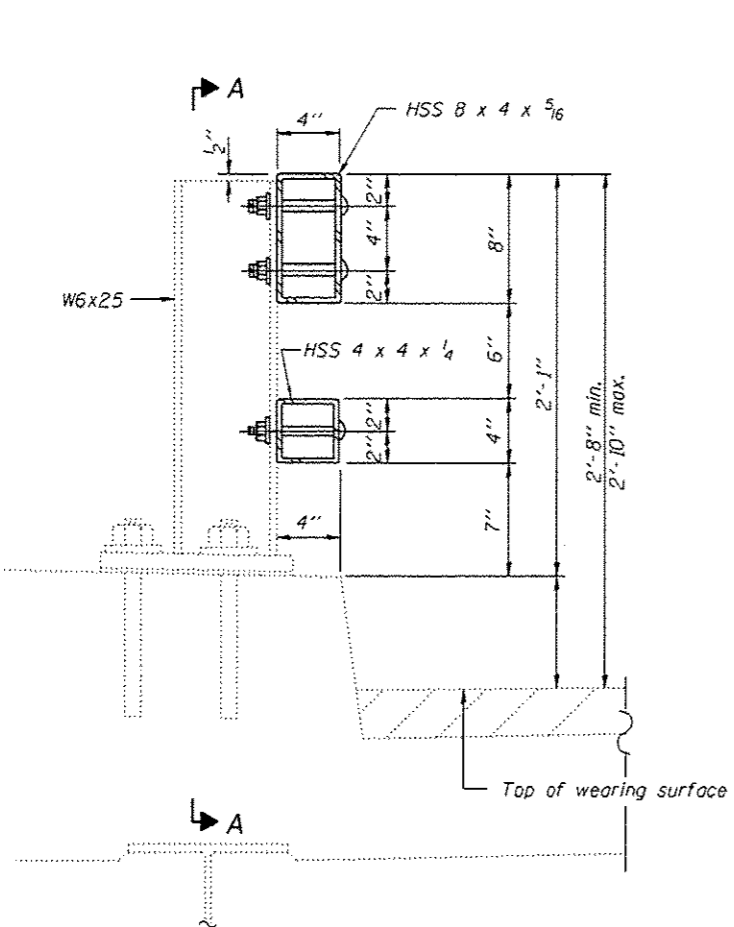
DATE MAY 14, 2015  
 PASSED *[Signature]*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

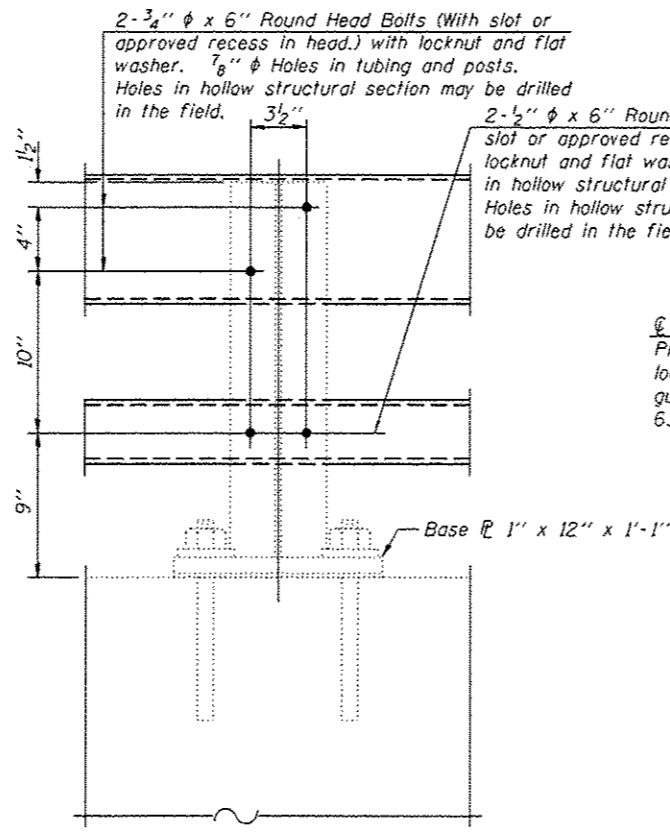
RAIL MODIFICATION & SLOPEWALL REPAIR DETAILS  
 SN 060-0132  
 SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	60-113.14J5RS-3	MADISON	226	165

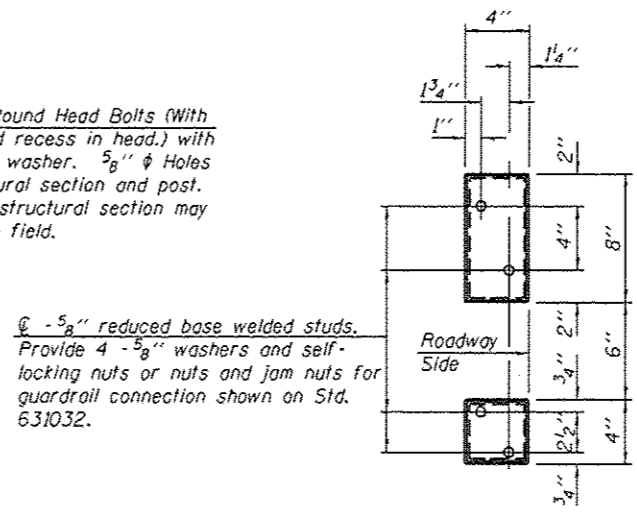
CONTRACT NO. 76F94  
 ILLINOIS FED. AID PROJECT



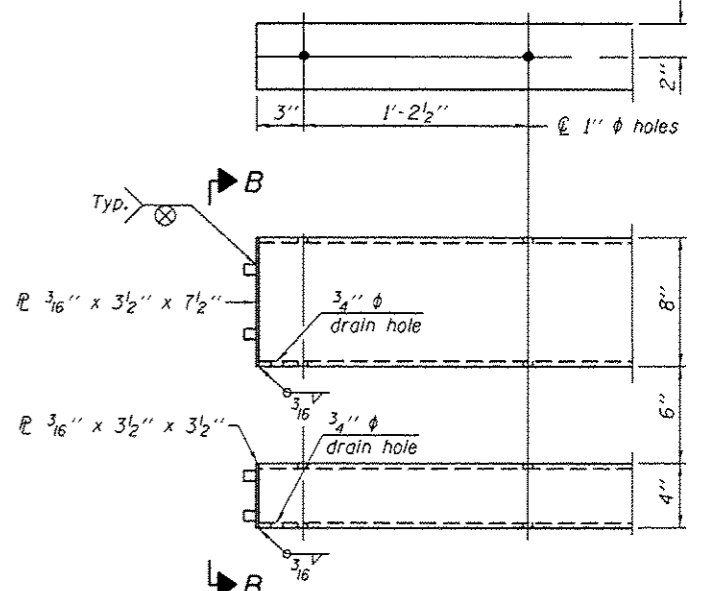
SECTION AT RAIL POST



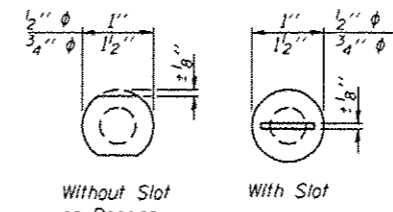
SECTION A-A



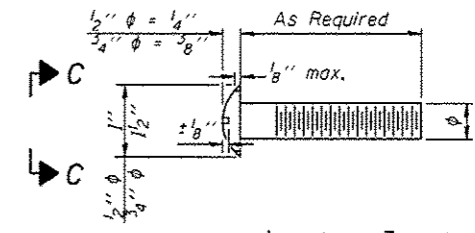
VIEW B-B



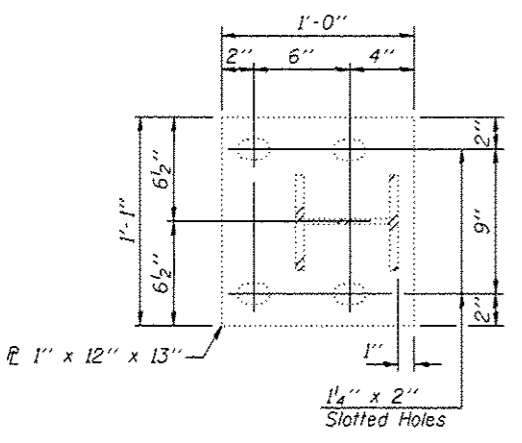
END OF RAIL DETAILS



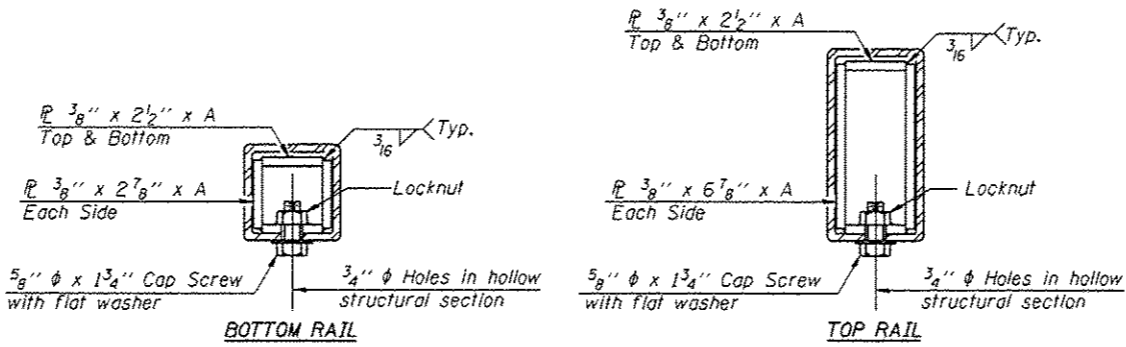
VIEW C-C



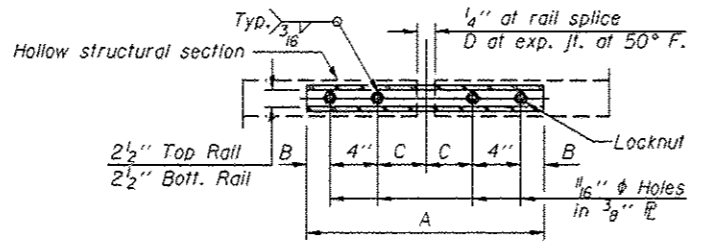
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



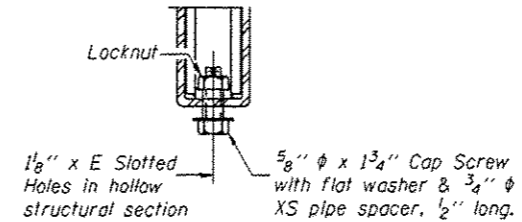
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.  
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.  
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1 1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Ralling, Type 2399	Foot	444

R-31 7-1-10 (6'-3" Maximum Post Spacing)

DESIGNED CCC  
 CHECKED SMR  
 DRAWN baliva  
 CHECKED CCC SMR

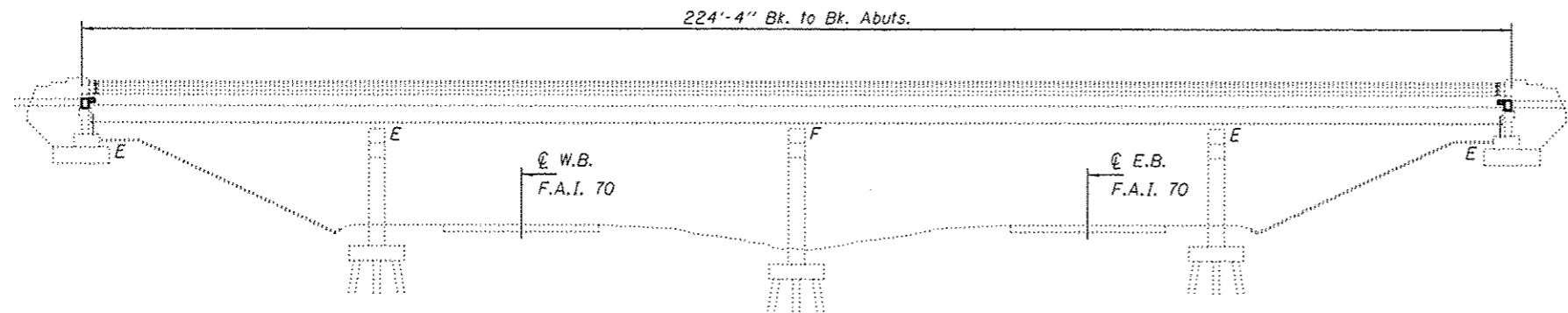
PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MAY 14, 2015  
 REVISED  
 REVISED

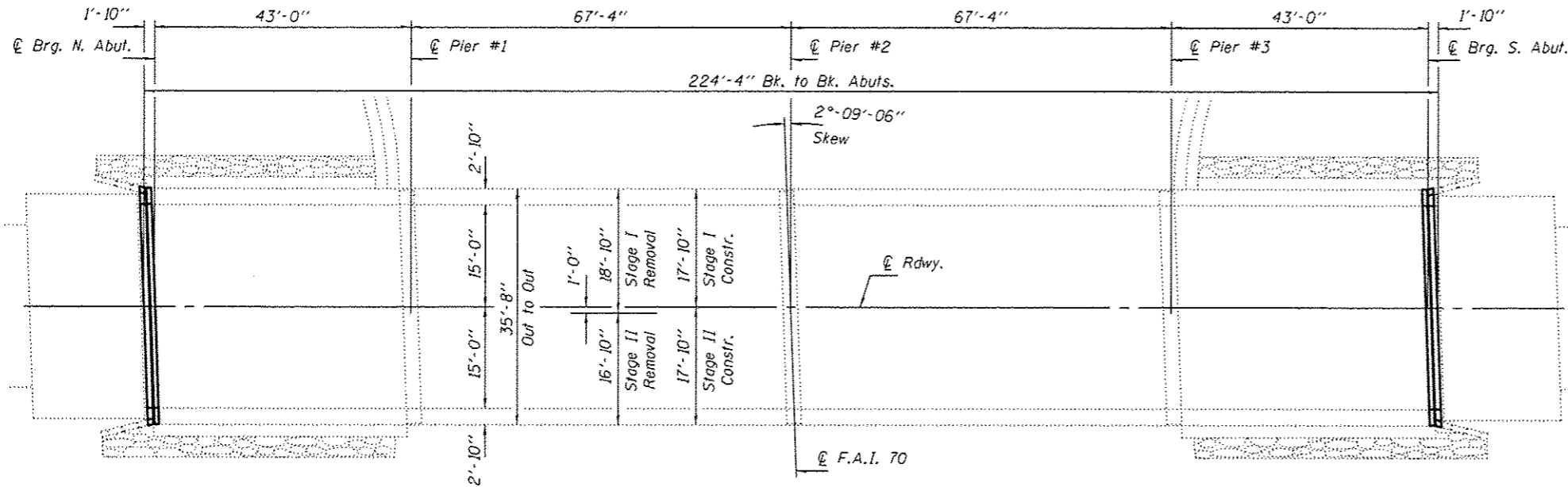
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RAIL DETAILS  
 SN 060-0132  
 SHEET NO. 3 OF 3 SHEETS

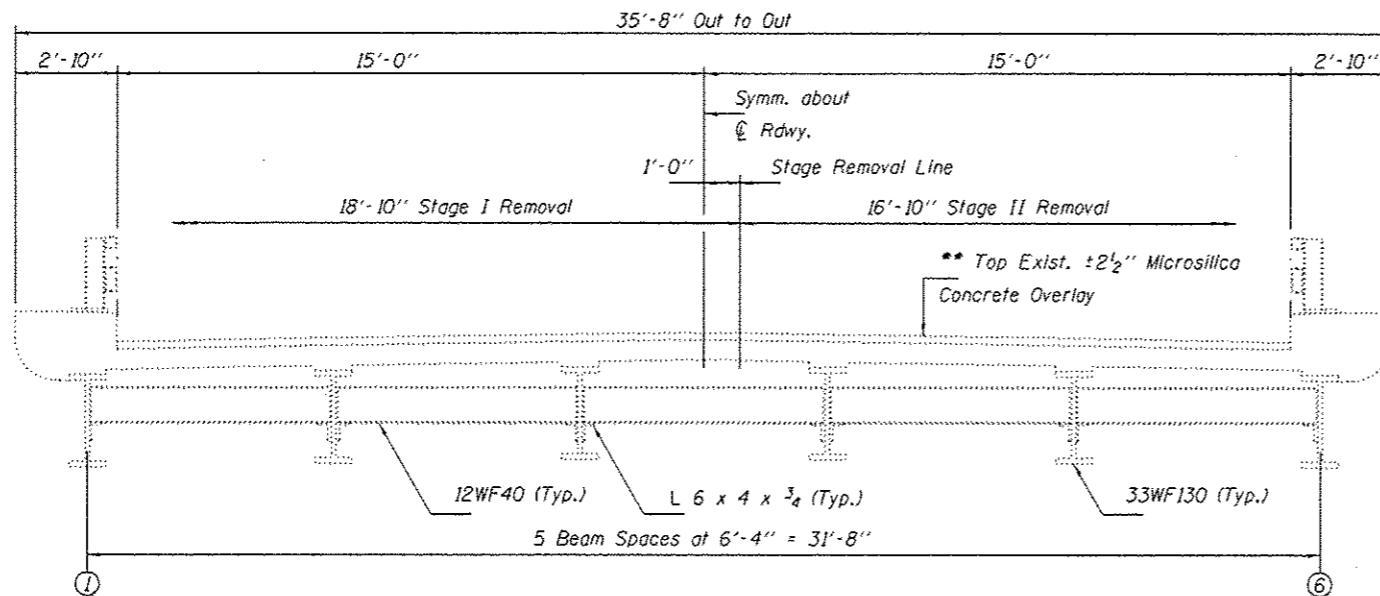
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 TO 60-113.14.15/MS-3 MADISON 226 166  
 CONTRACT NO. 76F94  
 ILLINOIS FED. AID PROJECT



**ELEVATION**

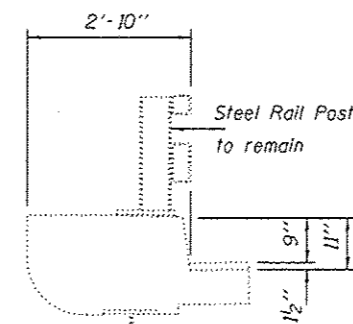


**PLAN**



**CROSS SECTION**  
(Looking South)

\*\* Apply Bridge Deck Concrete Sealer to the deck surface and the face and top of the curbs.



**SECTION THRU CURB**

**GENERAL NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

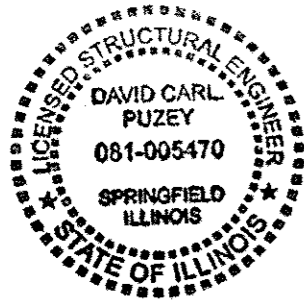
Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Pointing Existing Steel Structures". All beams, bearings and other structural steel within 5 ft. (measured along beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning - SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning - SSPC-SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior and exterior steel surfaces shall be Gray, Munsell No. 5B 7/1.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	6.2
Concrete Superstructure	Cu. Yd.	6.2
Preformed Joint Strip Seal	Foot	72
Reinforcement Bars, Epoxy Coated	Pound	790
Bar Splicers	Each	16
Protective Coat	Sq. Yd.	14.4
Bridge Deck Concrete Sealer	Sq. Ft.	935
Containment and Disposal of Lead		
Paint Cleaning Residuals, Bridge No. 5	L.S.	1
Cleaning and Painting Steel Bridge No. 5	L.S.	1
Bridge Rail Removal	Foot	444
Steel Railing, Type 2399	Foot	444

\* On new concrete only.



EXPIRES 11-30-2016

DESIGNED: *Stephen P. Ryan*  
 CHECKED: *Stephen P. Ryan*  
 DRAWN: J. Schneller  
 CHECKED: CCC SMR

PASSED: *David Carl Puzev*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

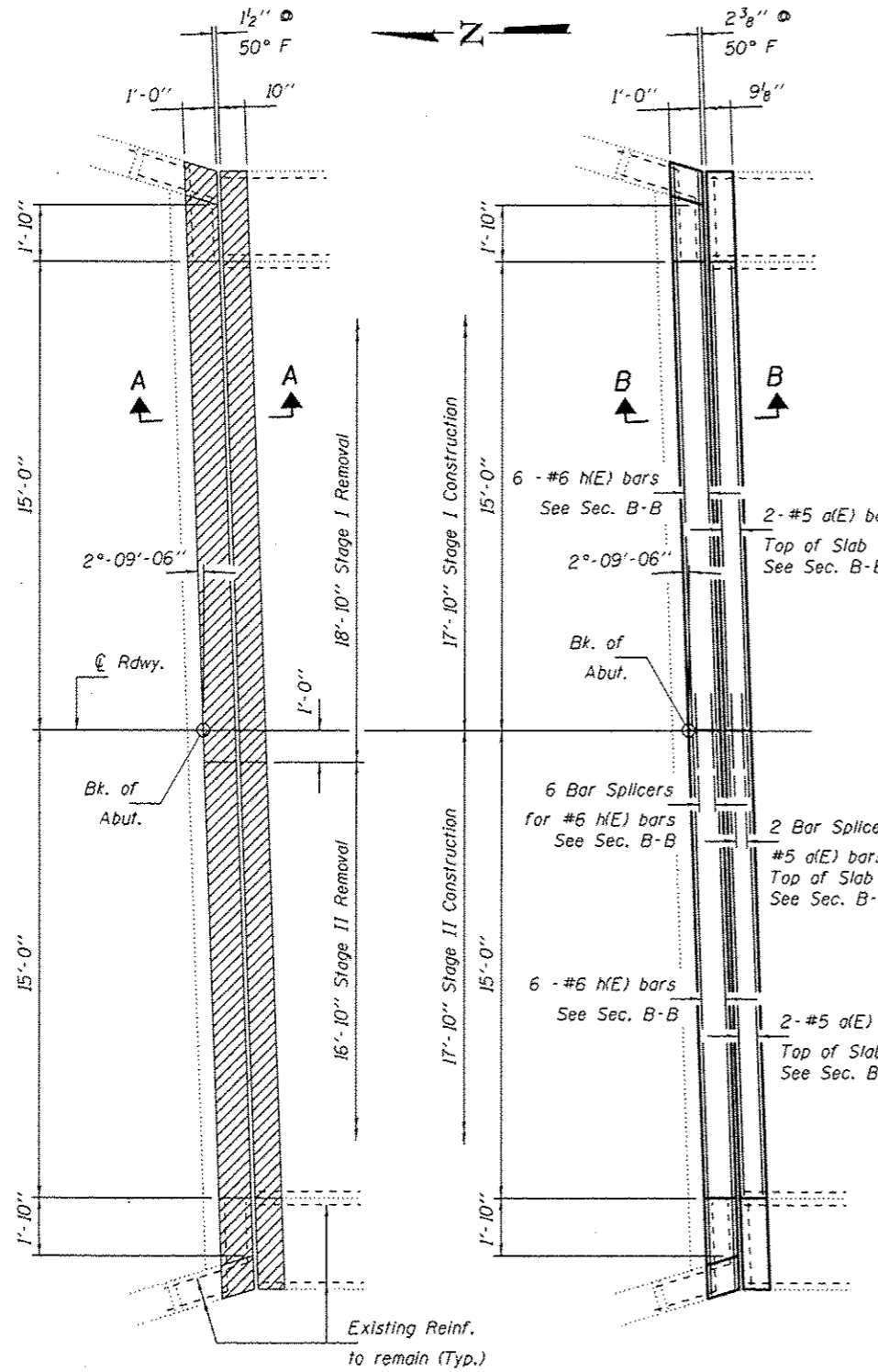
DATE: March 27, 2015  
 REVISED: \_\_\_\_\_  
 REVISED: \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN & ELEVATION  
 F.A. RT. 12 OVER F.A.I. RT. 70  
 SN 060-0079  
 SHEET NO. 1 OF 8 SHEETS

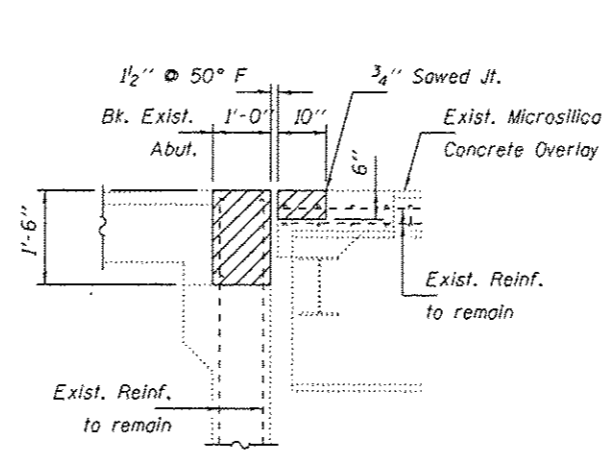
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	MADISON	226	161

CONTRACT NO. 76F94  
 ILLINOIS FED. AID PROJECT

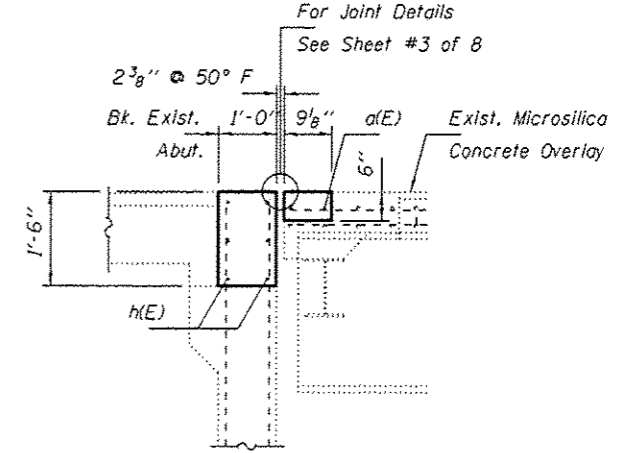


**REMOVAL PLAN**

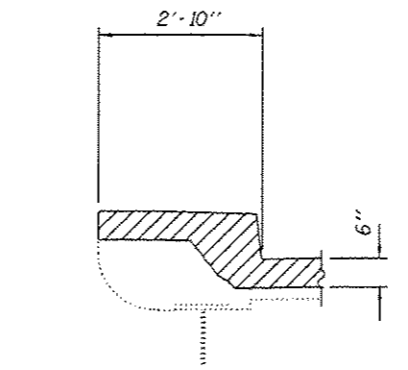
**REPLACEMENT PLAN**



**SECTION A-A**  
(Near & Rdwy.)



**SECTION B-B**  
(Near & Rdwy.)



**CONCRETE REMOVAL AT CURB**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	8	#5	14'-9"	—
h(E)	24	#6	17'-7"	—
Concrete Removal			Cu. Yd.	6.2
Concrete Superstructure			Cu. Yd.	6.2
Reinforcement Bars, Epoxy Coated			Lbs.	790

North Abutment shown. South Abutment similar by rotation.

DESIGNED - CCC  
 CHECKED - ATH  
 DRAWN - J. Schneller  
 CHECKED - CCC ATH

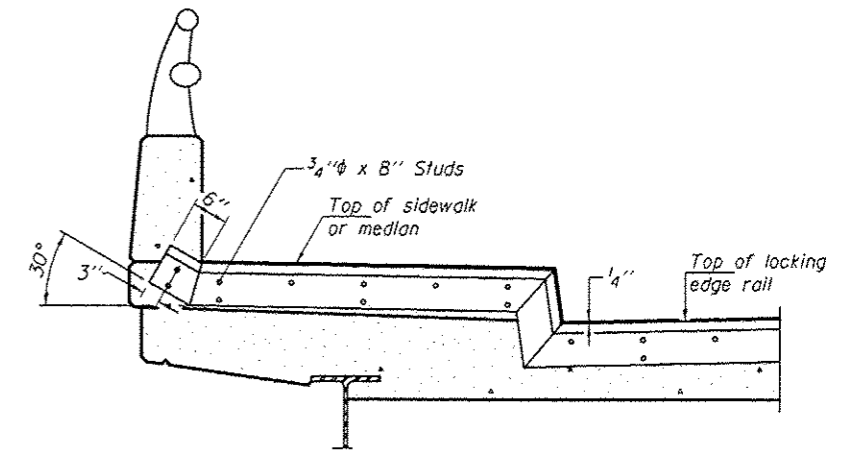
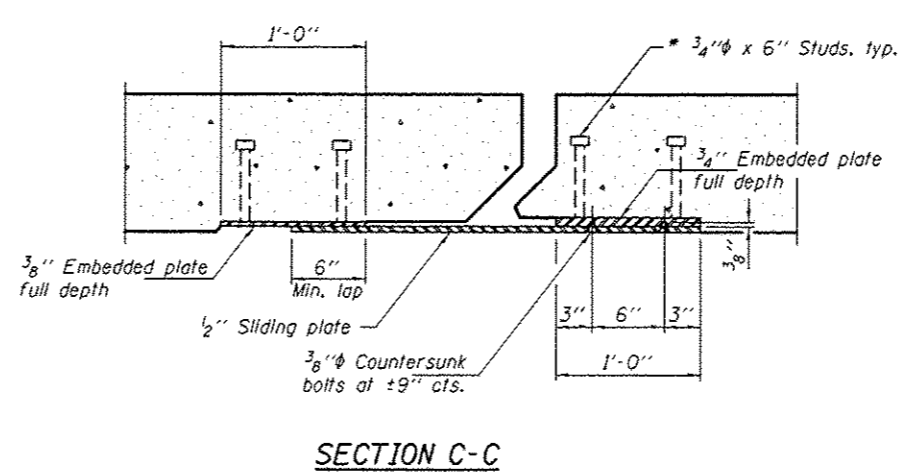
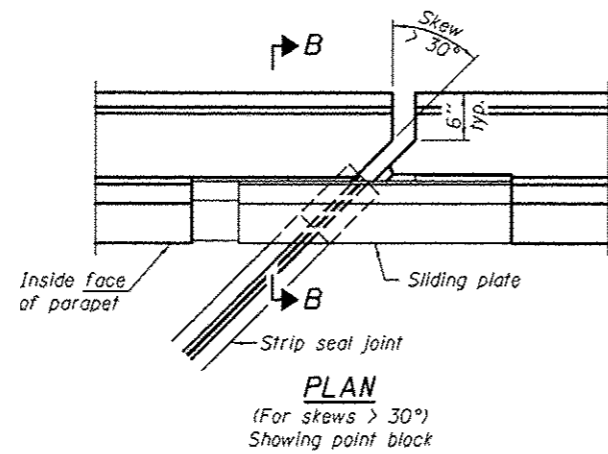
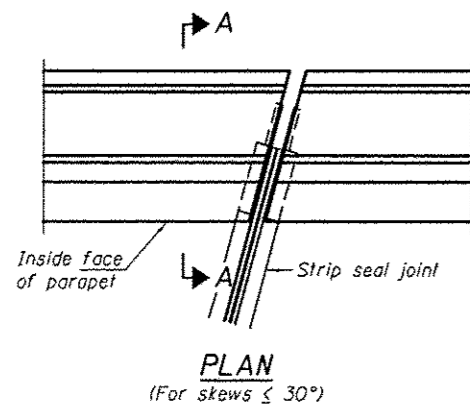
PASSED  
 DATE March 27, 2015  
 REVISED  
 REVISED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

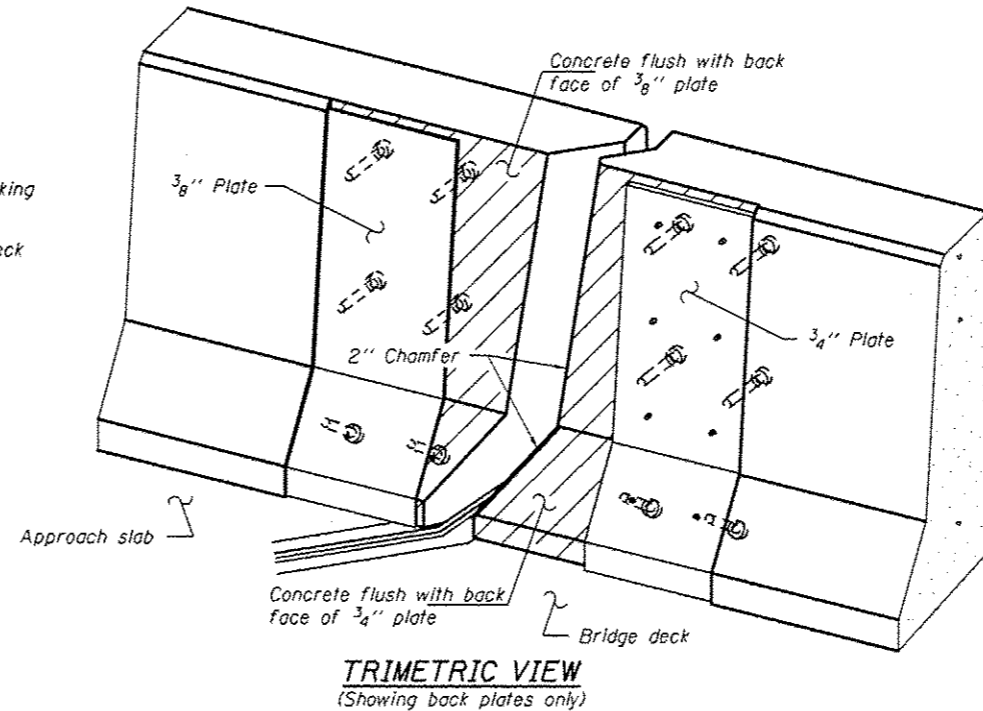
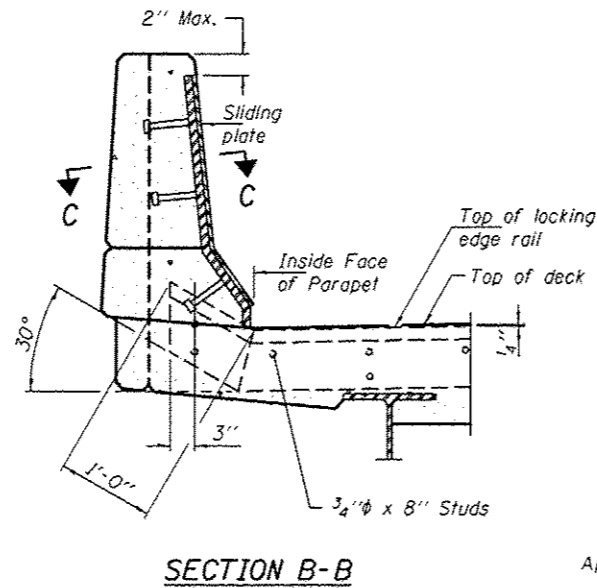
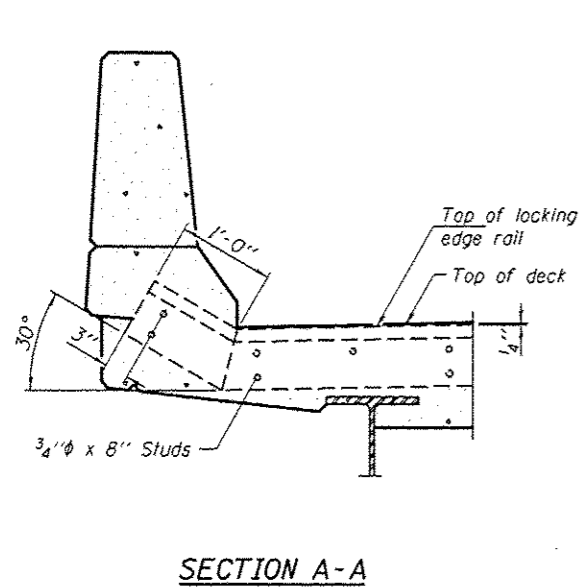
REPAIR DETAILS  
 SN 060-0079

SHEET NO. 2 OF 8 SHEETS

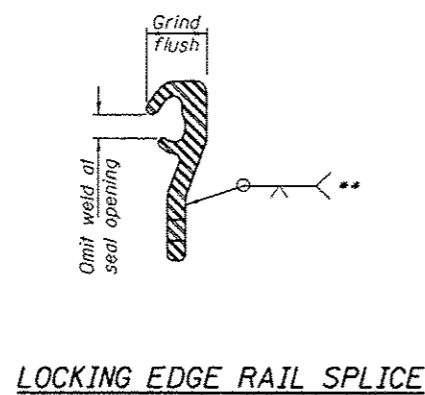
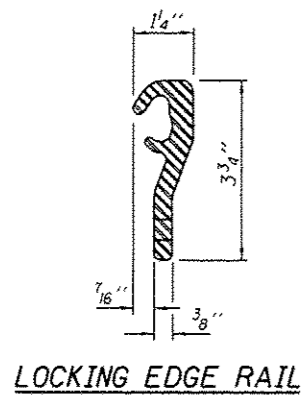
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	MADISON	226	168
				CONTRACT NO. 76F94
ILLINOIS FED. AID PROJECT				



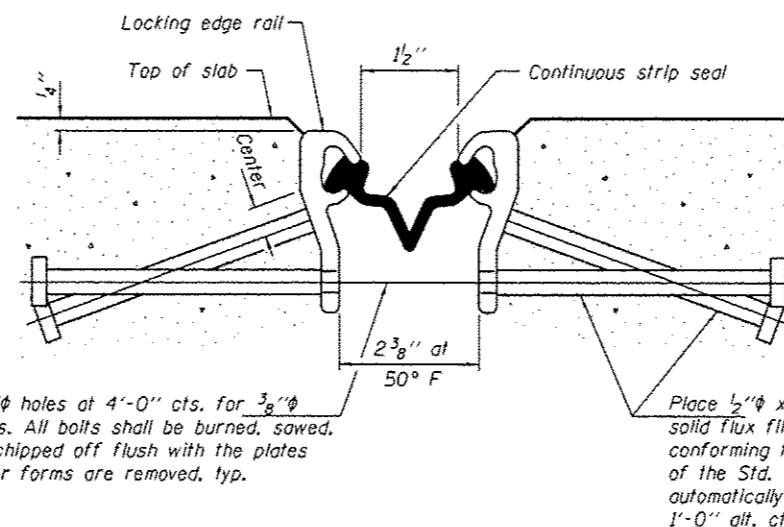
**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**  
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



**Notes:**  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.  
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.  
The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.  
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.  
Parapet plates and anchorage studs for skews  $> 30^\circ$  included in the cost of Preformed Joint Strip Seal.  
The manufacturer's recommended installation methods shall be followed.



\*\* Back gouge not required if complete joint penetration is verified by mock-up.

**SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	72

DESIGNED - CCC  
CHECKED - ATH  
DRAWN - J. Schneller  
CHECKED - CCC ATH

PASSED  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE March 27, 2015  
REVISED  
REVISED

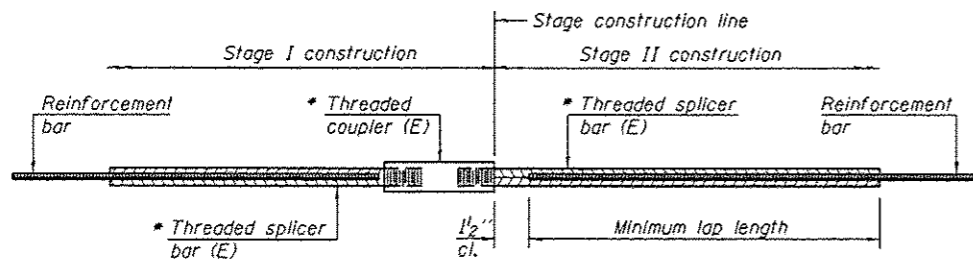
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL  
SN 060-0079

SHEET NO. 3 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15/RS-3	MADISON	226	169

CONTRACT NO. 76F94  
ILLINOIS FED. AID PROJECT

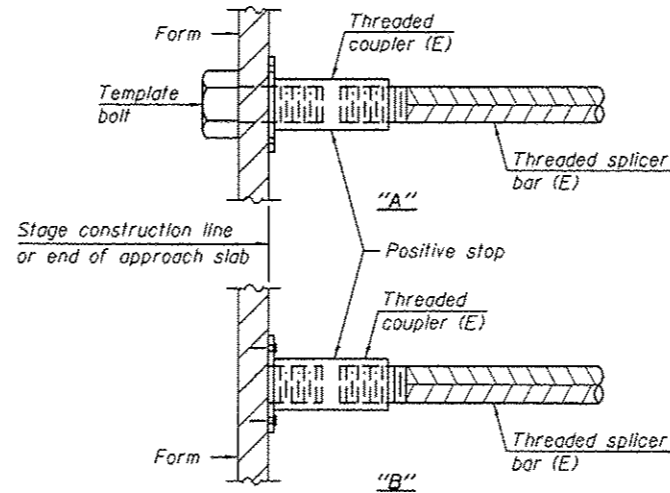


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

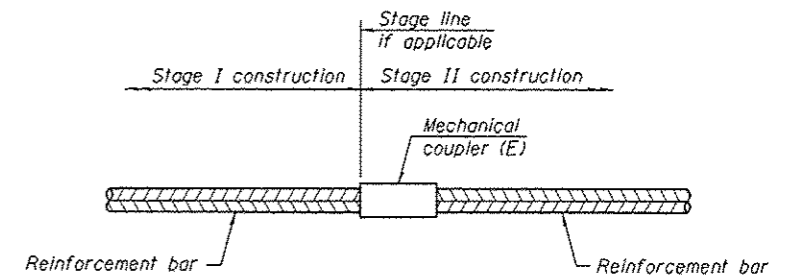
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abut. Hatch Block	#6	6	4'-0"
N. End of Deck	#5	2	3'-6"
S. Abut. Hatch Block	#6	6	4'-0"
S. End of Deck	#5	2	3'-6"



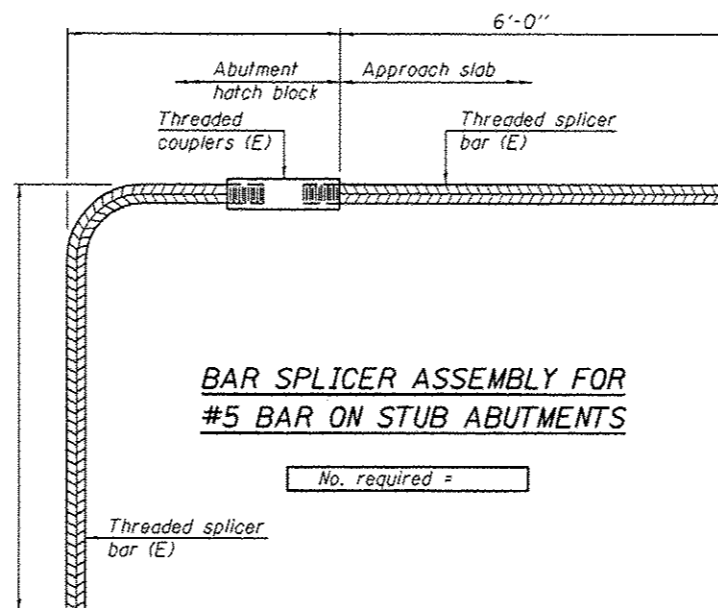
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

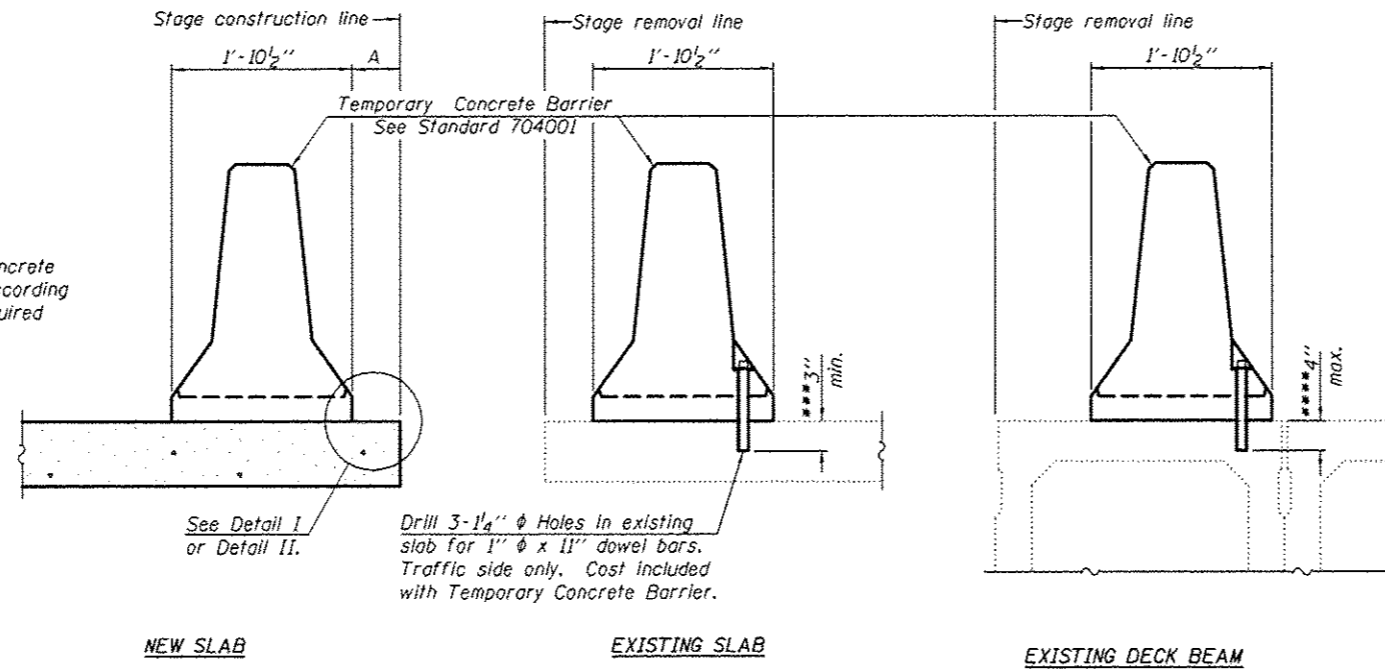
**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 6-8-15

DESIGNED - CCC	DATE March 27, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 060-0079	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH	REVISOR			70	60-113.14.15RS-3	MADISON	226	170
DRAWN - J. Schneller	ACTING ENGINEER OF BRIDGES AND STRUCTURES			CONTRACT NO. 76F94				
CHECKED - CCC ATH			SHEET NO. 4 OF 8 SHEETS	ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

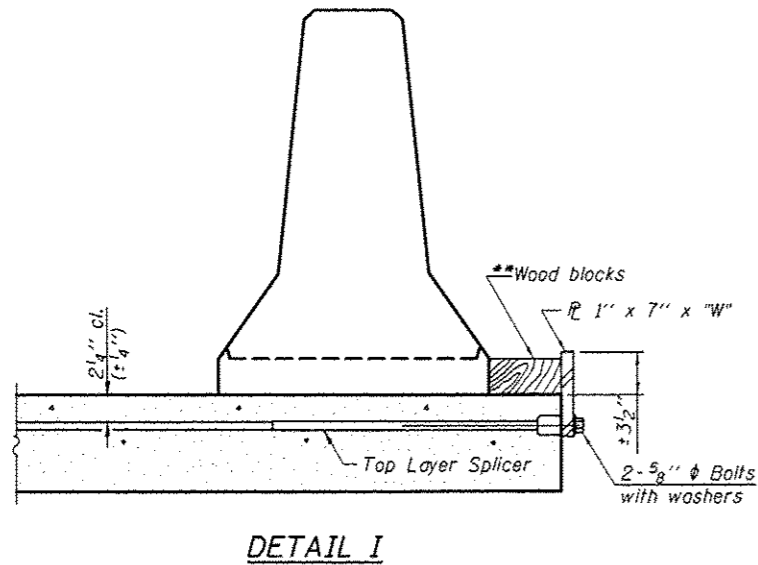
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the top layer of couplers with 2- $\frac{5}{8}$ "  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2- $\frac{5}{8}$ "  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

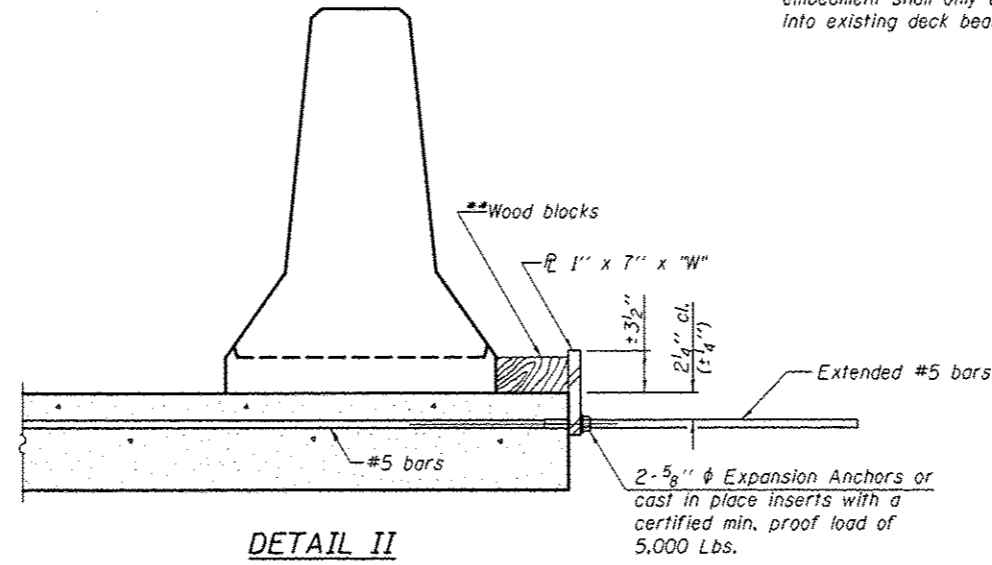
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

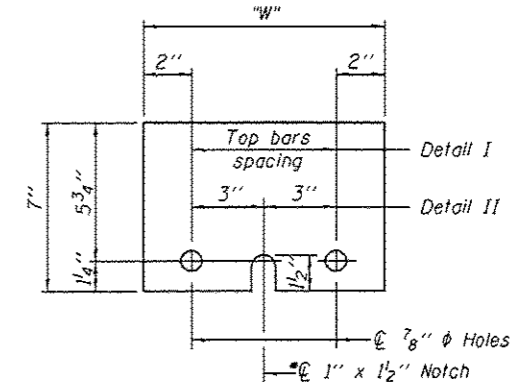
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



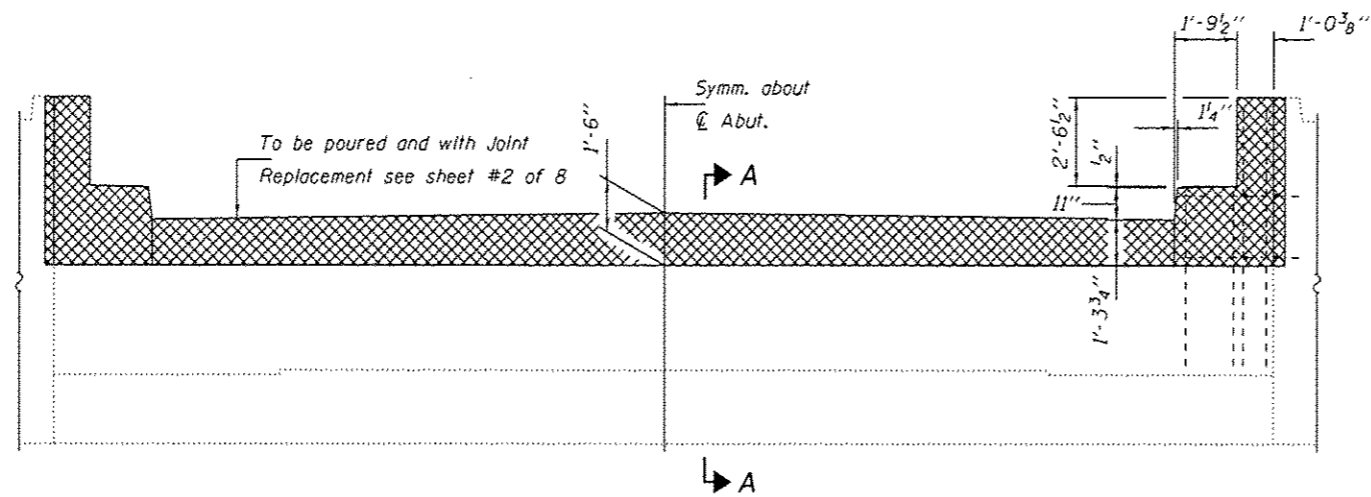
**STEEL RETAINER  $\bar{L}$  1" x 7" x "W"**  
\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

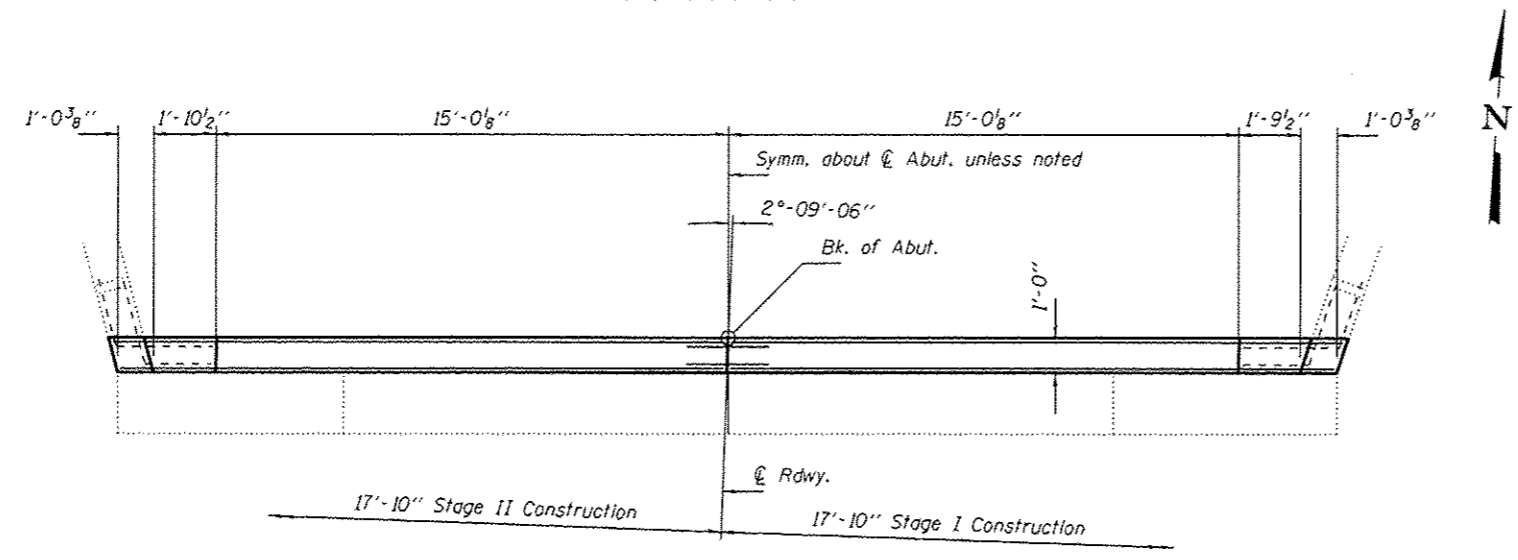
"W" = Top bars spacing + 4"

R-27 7-1-10

DESIGNED - CCC	DATE March 27, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION		F.A.I. RTE. 70	SECTION 60-(13,14,15)RS-3	COUNTY MADISON	TOTAL SHEETS 226	SHEET NO. 171
CHECKED - ATH	REVISOR		STRUCTURE NO. 060-0079		CONTRACT NO. 76F94				
DRAWN - J. Schneller	REVISOR		SHEET NO. 5 OF 8 SHEETS		ILLINOIS FED. AID PROJECT				
CHECKED - CCC ATH	ACTING ENGINEER OF BRIDGES AND STRUCTURES								




**REMOVAL PLAN**




**REMOVAL PLAN**

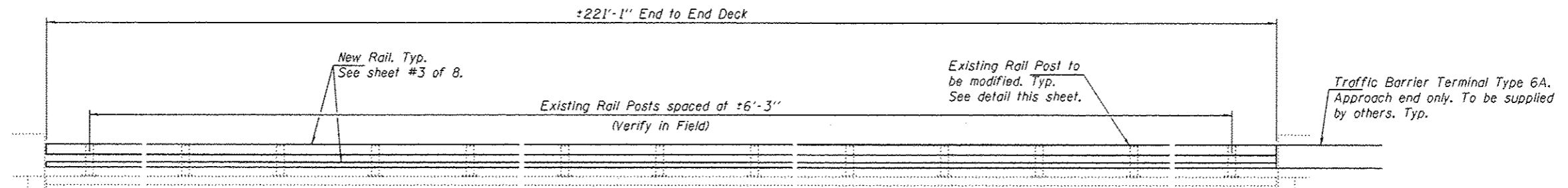
North Abutment shown. South Abutment similar by rotation.

 - Concrete Superstructure

Notes:  
For Concrete Removal details and Section A-A see sheet #2 of 8.

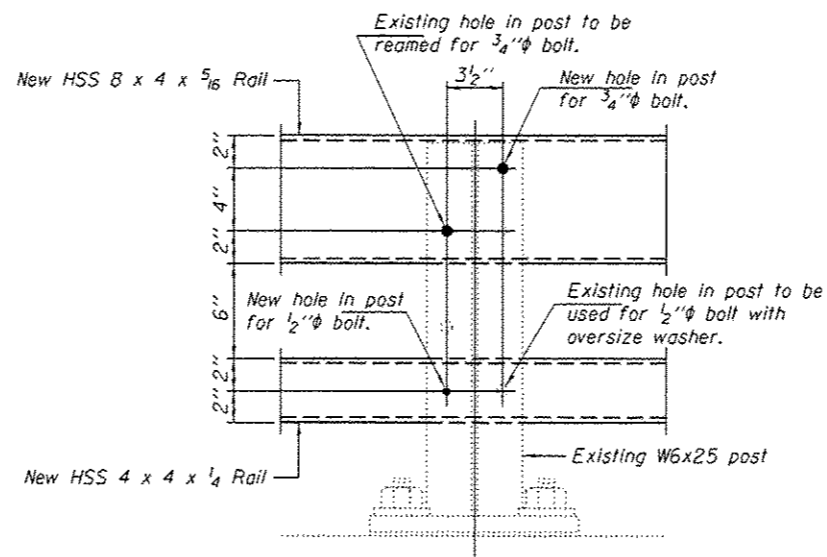
DESIGNED - CCC	PASSED	 ACTING ENGINEER OF BRIDGES AND STRUCTURES	DATE <u>March 27, 2015</u>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENT REMOVAL DETAILS SN 060-0079	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - ATH			REVISED			70	60-113.14,15)R5-3	MADISON	226	112
DRAWN - J. Schneller			REVISED			CONTRACT NO. 76F94				
CHECKED - CCC ATH			REVISED			ILLINOIS FED. AID PROJECT				
SHEET NO. 6 OF 8 SHEETS										





**RAIL MODIFICATION DETAIL**

Notes:  
 Existing top and bottom, rail elements to be removed.  
 New top and bottom rail elements to be attached.




**EXISTING RAIL POST  
 MODIFICATION DETAIL**

**BILL OF MATERIAL**

Item	Unit	Quantity
Bridge Rail Removal	Foot	444

DESIGNED - CCC  
 CHECKED - ATH  
 DRAWN - J. Schneller  
 CHECKED - CCC ATH

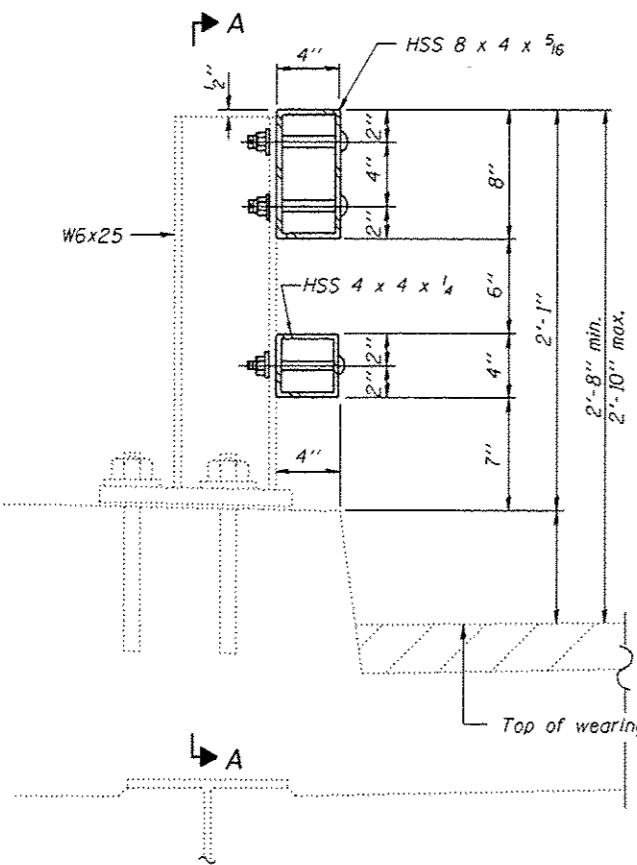
DATE March 27, 2015  
 PASSED   
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

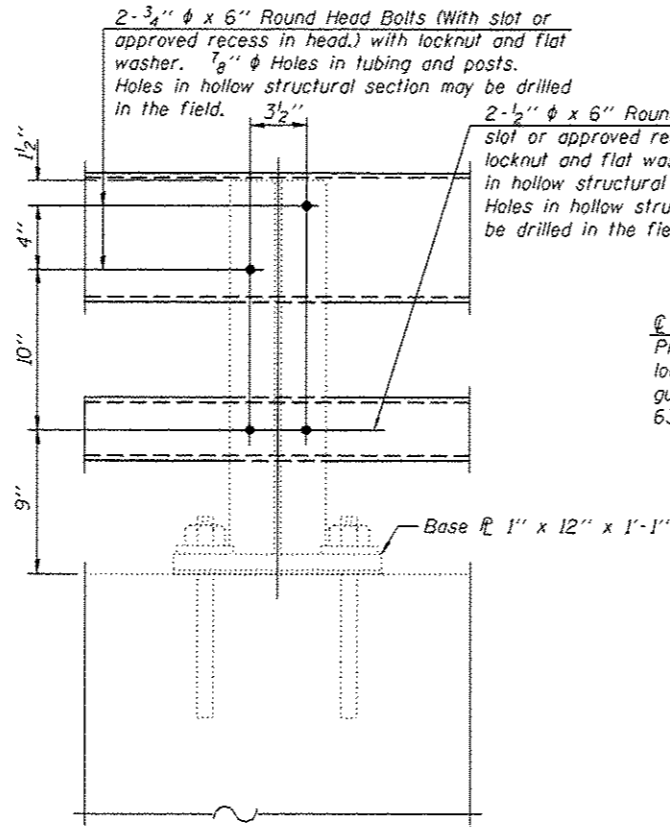
RAIL MODIFICATION DETAILS  
 SN 060-0079

SHEET NO. 7 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.151RS-3	MADISON	226	173
CONTRACT NO. T6F94			ILLINOIS FED. AID PROJECT	



SECTION AT RAIL POST

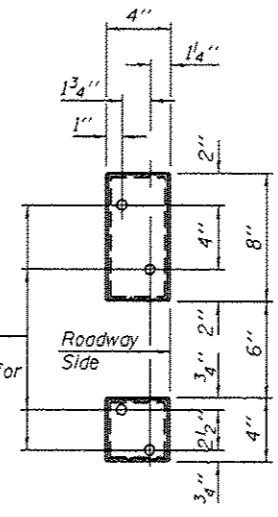


SECTION A-A

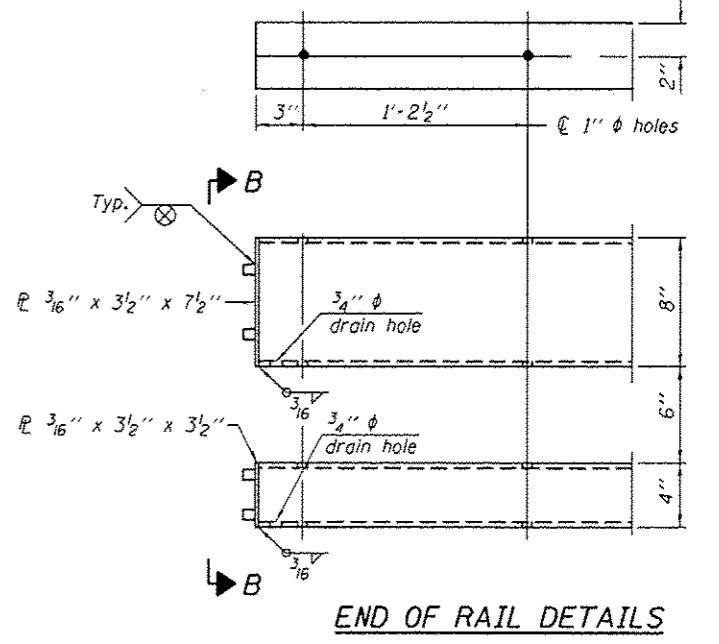
2-3/4"  $\phi$  x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer. 3/8"  $\phi$  Holes in tubing and posts. Holes in hollow structural section may be drilled in the field.

2-1/2"  $\phi$  x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer. 5/8"  $\phi$  Holes in hollow structural section and post. Holes in hollow structural section may be drilled in the field.

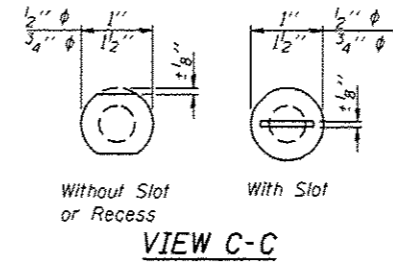
4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



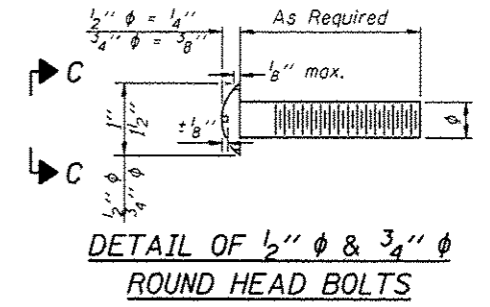
VIEW B-B



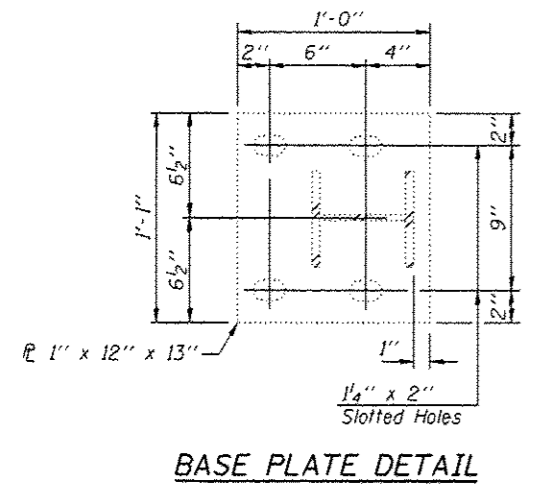
END OF RAIL DETAILS



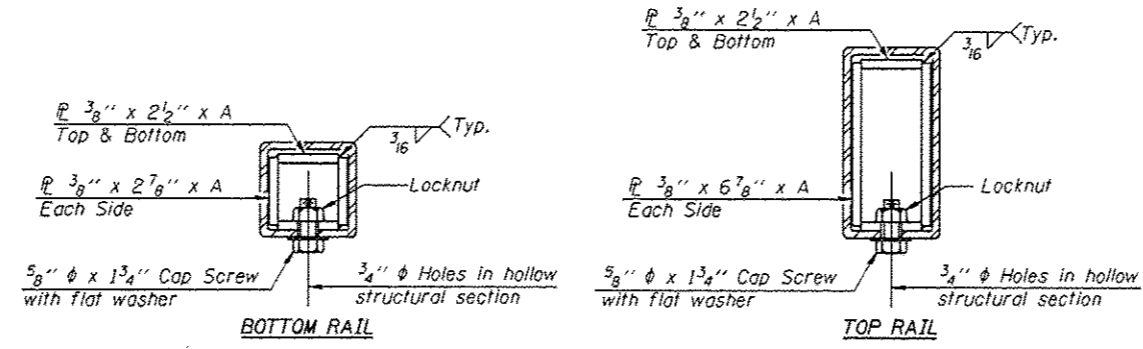
VIEW C-C



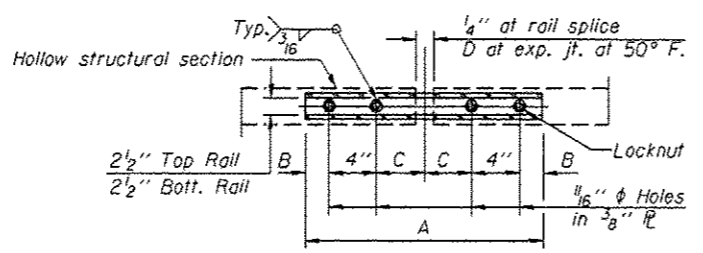
DETAIL OF 1/2"  $\phi$  & 3/4"  $\phi$  ROUND HEAD BOLTS



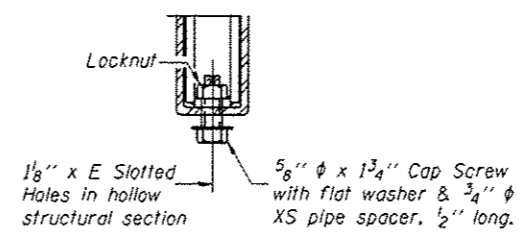
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.  
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.  
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	444

R-31 7-1-10 (16'-3" Maximum Post Spacing)

DESIGNED - CCC  
 CHECKED - ATH  
 DRAWN - J. Schneller  
 CHECKED - CCC ATH

PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE March 27, 2015  
 REVISED  
 REVISED

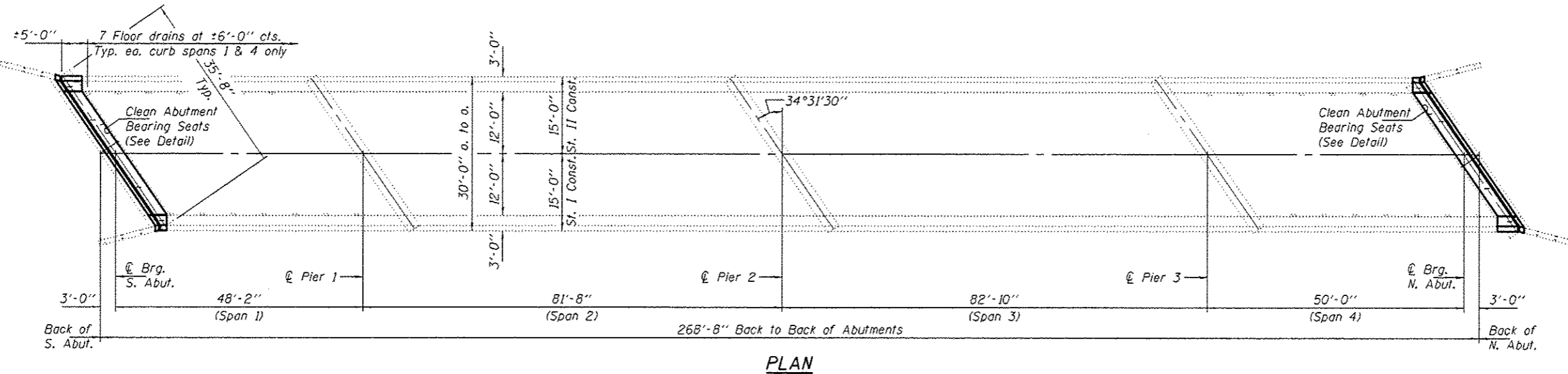
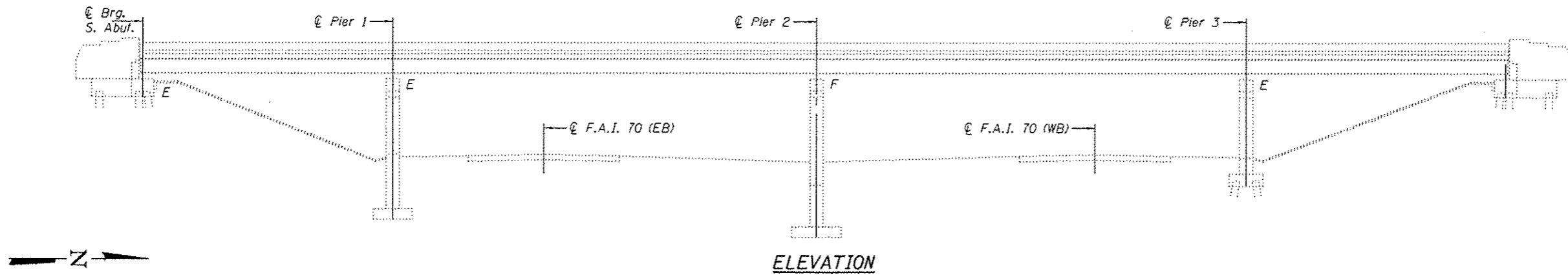
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RAIL DETAILS  
 SN 060-0079

SHEET NO. 8 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14,151R5-3	MADISON	226	174
				CONTRACT NO. T6F94

ILLINOIS FED. AID PROJECT



**GENERAL NOTES**

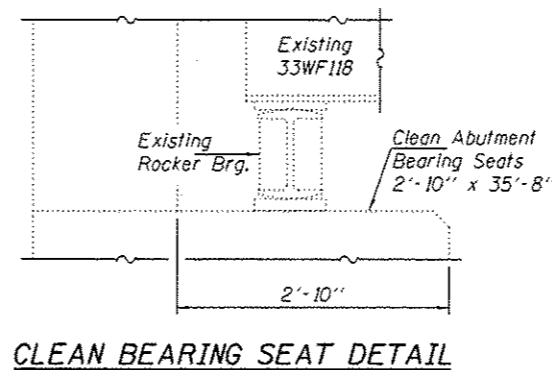
All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

The deck surface shall have its final finish lined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

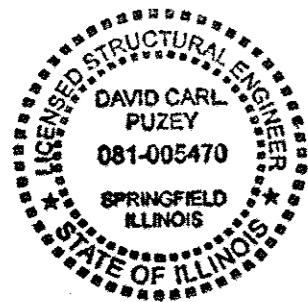
Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	12
Bridge Deck Scarification, 2 1/4"	Sq. Yd.	695
Cleaning Bridge Seats	Sq. Ft.	202
Concrete Removal	Sq. Yd.	9.0
Concrete Superstructure	Sq. Yd.	9.0
Concrete Structures	Sq. Yd.	7.2
Protective Coat	Sq. Yd.	27
Reinforcement Bars, Epoxy Coated	Pound	2760
Prefarmed Joint Strip Seal	Foot	73
Bar Splicers	Each	24
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	691
Bridge Deck Grooving	Sq. Yd.	646

\* On new concrete adjacent to joint work only



Expires: November 30, 2016

DESIGNED - *Stephan M. Ryan*  
 CHECKED - *[Signature]*  
 DRAWN - Kyle M. Steffer  
 CHECKED - SMR, CCC

PASSED *[Signature]*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

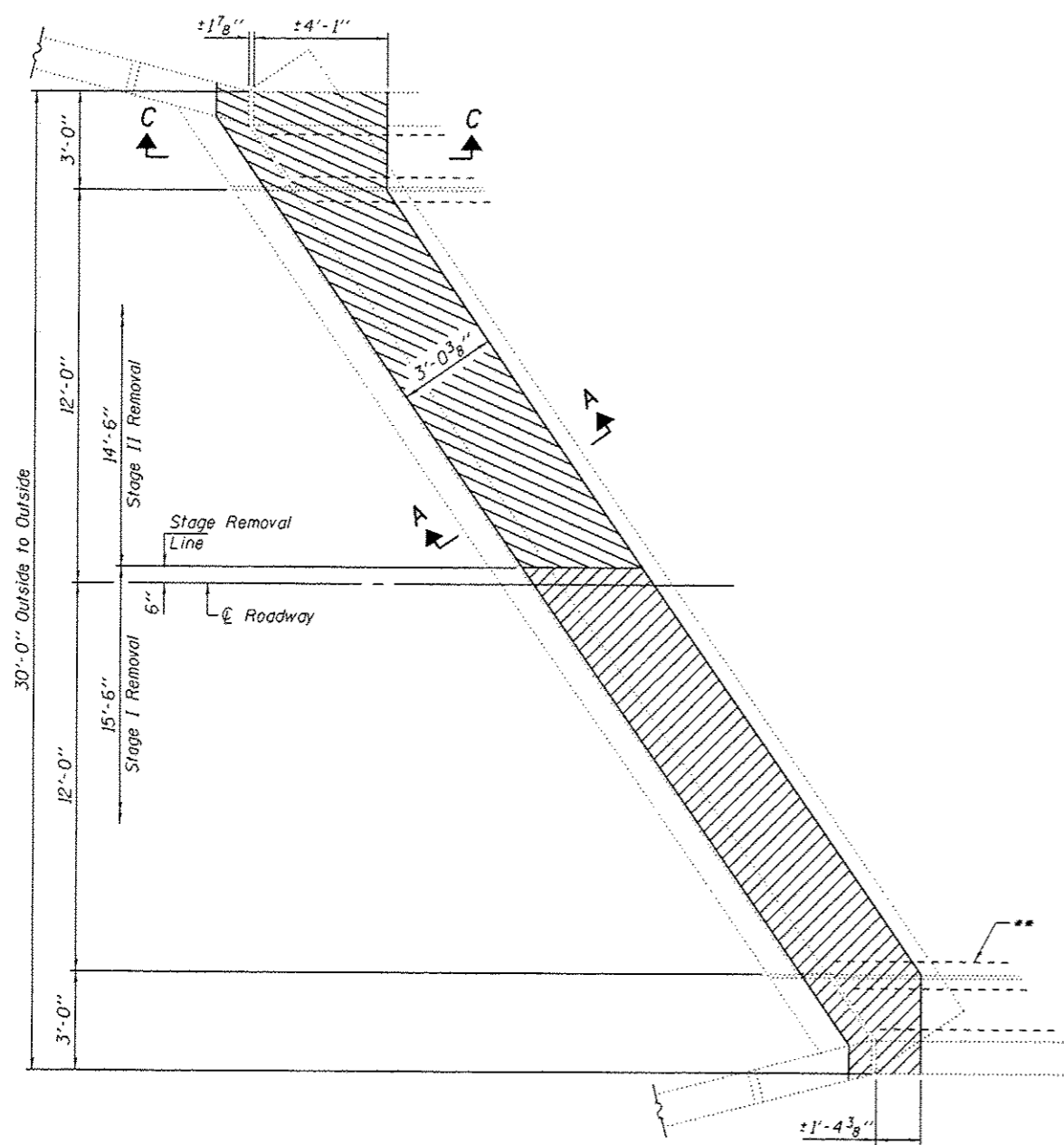
DATE - MAY 14, 2015

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

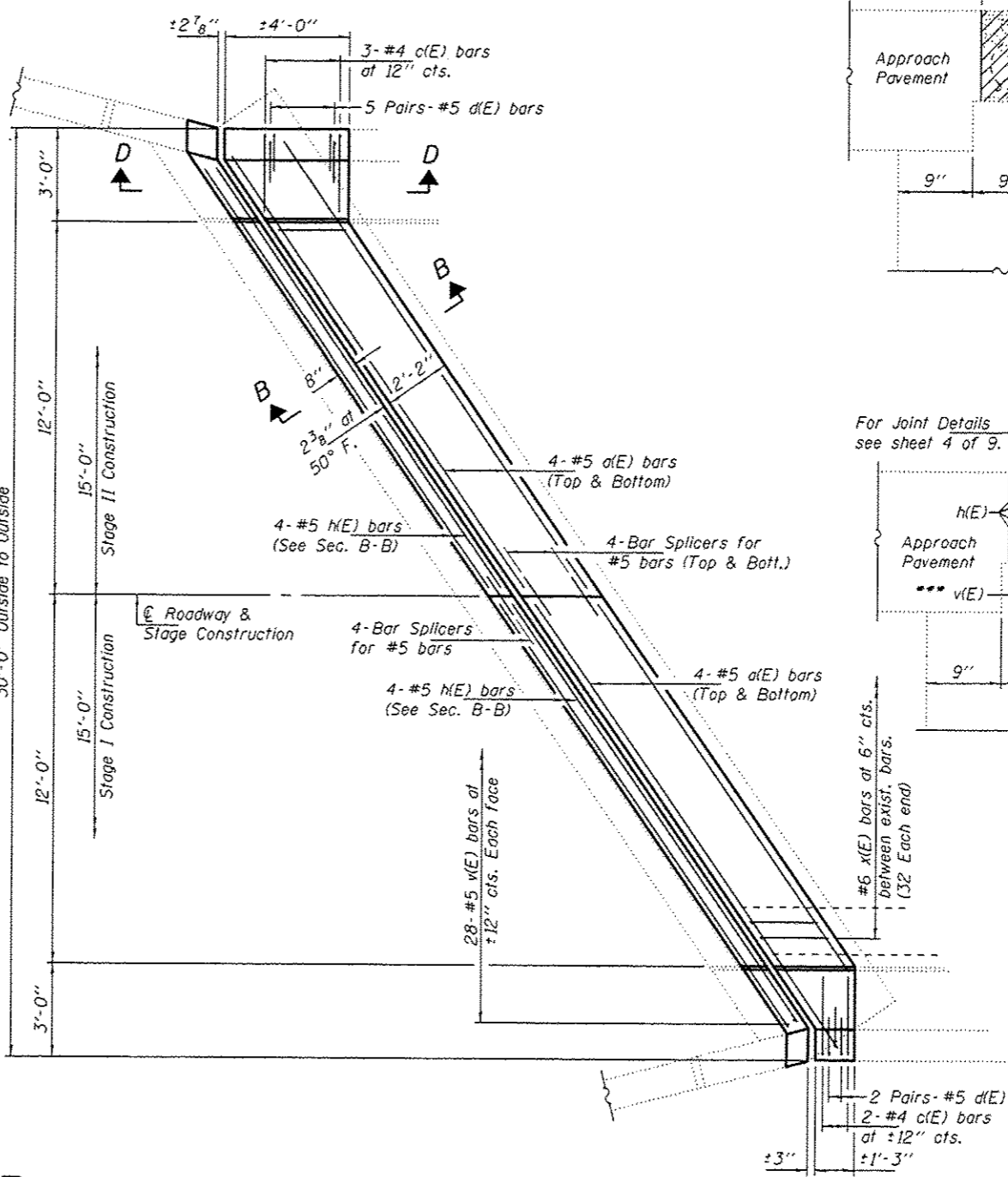
GENERAL PLAN & ELEVATION  
 MADISON COUNTY LINE ROAD OVER F.A.I. 70  
 SN 003-0042

SHEET NO. 1 OF 9 SHEETS

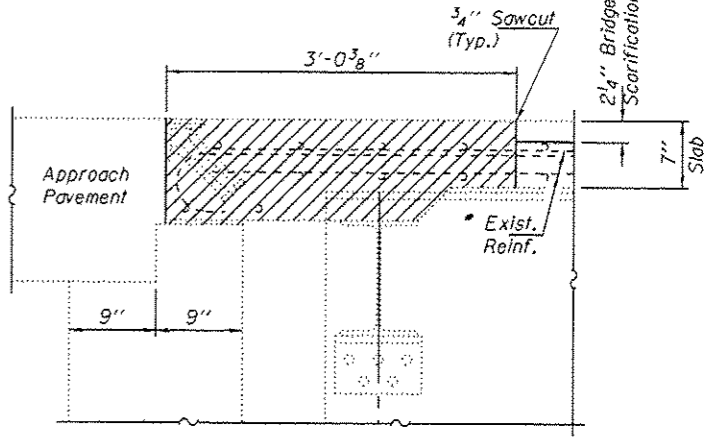
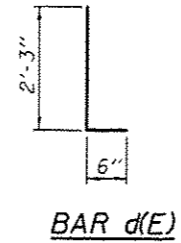
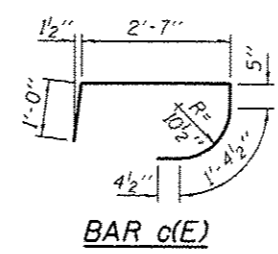
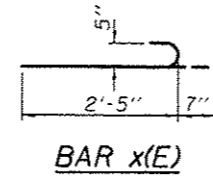
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.151R5-3	BOND	226	175
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



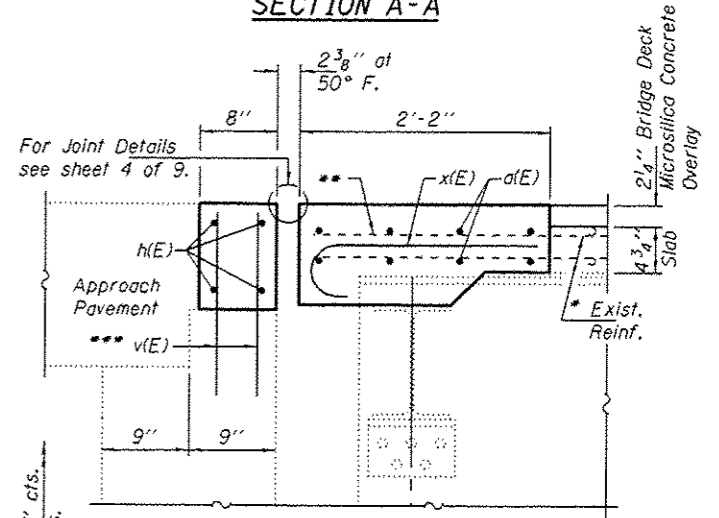
**CONCRETE REMOVAL PLAN**  
(S. Abut. shown; N. Abut. similar by 180° rotation.)



**CONCRETE REPLACEMENT PLAN**  
(S. Abut. shown; N. Abut. similar by 180° rotation.)



**SECTION A-A**



**SECTION B-B**

Notes:  
For Bill of Material, joint concrete reinforcement, Sections C-C & D-D & rail post details, see sheet 3 of 9.

\* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

\*\* Cut existing longitudinal reinforcement bars ±1'-2" to fit inside new proposed concrete deck length.

\*\*\* v(E) bars shall be epoxy grouted in 9" min. holes in accordance with Article 584 of the Standard Specifications.

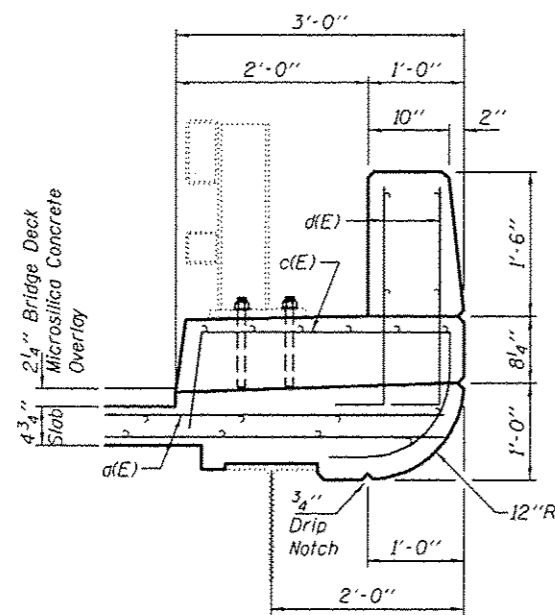
DESIGNED - SMR	PASSED	
CHECKED - CCC		
DRAWN - Kyle M. Steffen		
CHECKED - SMR CCC		

DATE - MAY 14, 2015	ACTING ENGINEER OF BRIDGES AND STRUCTURES
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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JOINT REMOVAL & REPLACEMENT DETAILS SN 003-0042
SHEET NO. 2 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.151RS-3	BOND	226	176
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



**SECTION THRU WALK**

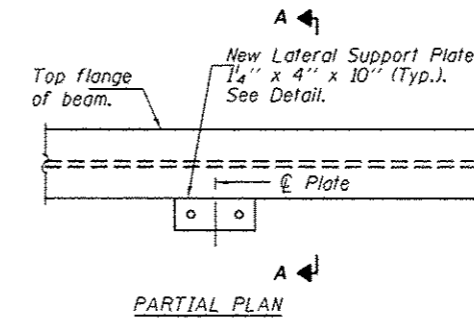
3/4"  $\phi$  x 7" Threaded Rod. Drill and epoxy grout per BSP-11. To prevent nut backoff, deform the threads after the plates have been installed.

Damaged concrete fillet to be hand chiseled as necessary to provide a flat surface for Support Plate.

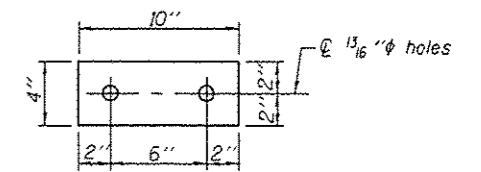
New Lateral Support Plate 1 1/4" x 4" x 10"

Tack weld washer to  $\phi$ . nut to washer & threaded rods.

**SECTION A-A**

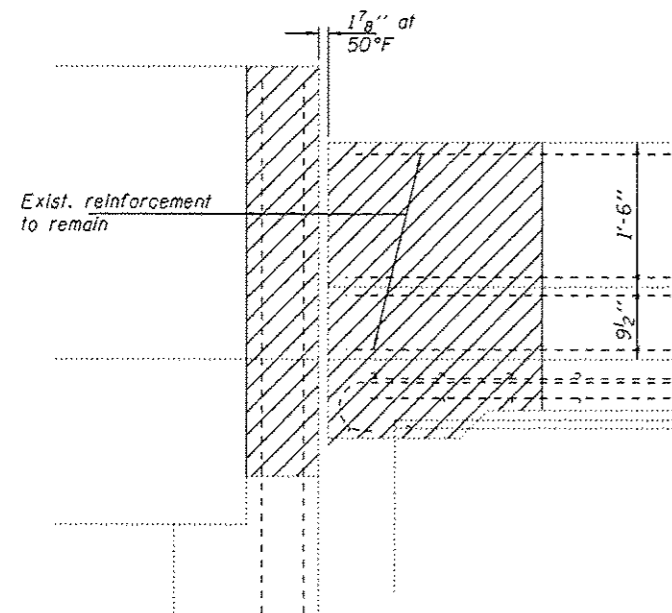


**DAMAGED BEAM FILLET REPAIR DETAIL**

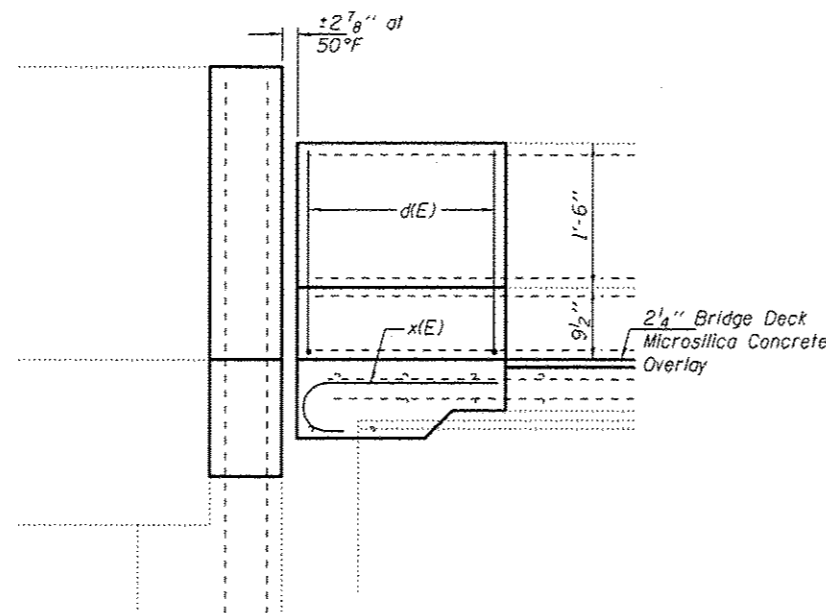


**LATERAL SUPPORT PLATE DETAIL**

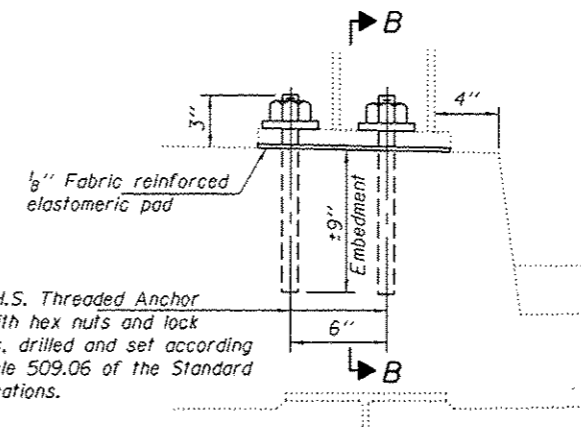
$\phi$  1 1/4" x 4" x 10"  
No. Req'd. = 1  
Plus additional as directed by the Engineer.



**SECTION C-C**

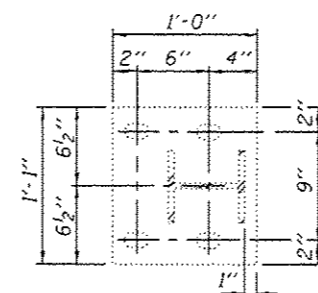


**SECTION D-D**

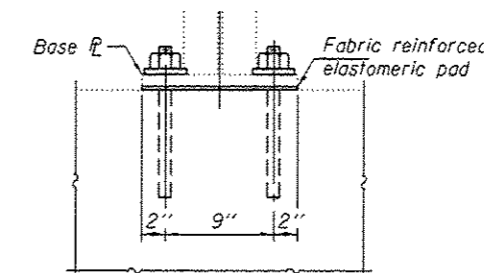


**SECTION AT RAIL POST**

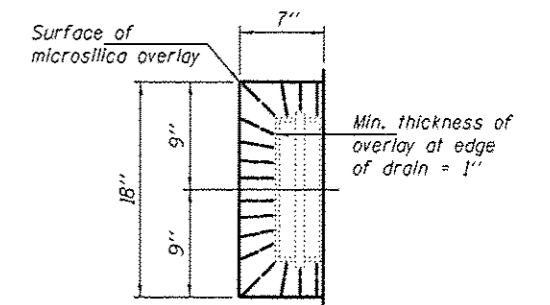
Cost of Fabric Reinforced Elastomeric Pad and Threaded Anchor Rods is included with Concrete Removal.



**BASE PLATE DETAIL**  
 $\phi$  1" x 12" x 13"



**SECTION B-B**



**TREATMENT AT DRAINS**

Slope Microsilica  
2:1 at drains

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	32	#5	17'-10"	—
c(E)	10	#4	5'-9"	┌
d(E)	28	#5	2'-9"	L
h(E)	16	#6	17'-10"	—
v(E)	112	#5	2'-8"	—
x(E)	64	#6	3'-0"	┐
Concrete Superstructure			Cu. Yd.	9.0
Reinforcement Bars, Epoxy Coated			Pound	1740

DESIGNED - SMR  
CHECKED - CCC  
DRAWN - Kyle M. Steffen  
CHECKED - SMR CCC

PASSED  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

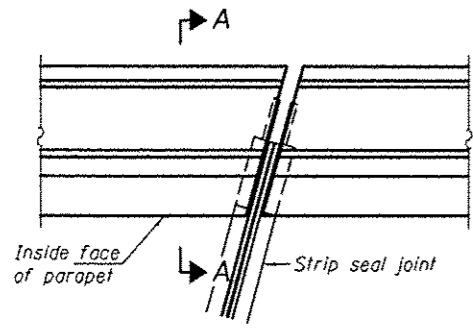
DATE - MAY 14, 2015

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

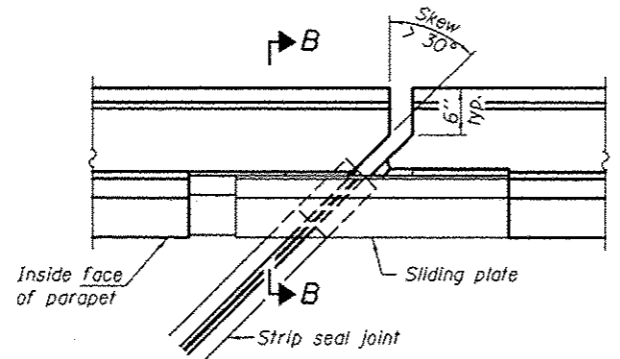
REPAIR DETAILS  
SN 003-0042

SHEET NO. 3 OF 9 SHEETS

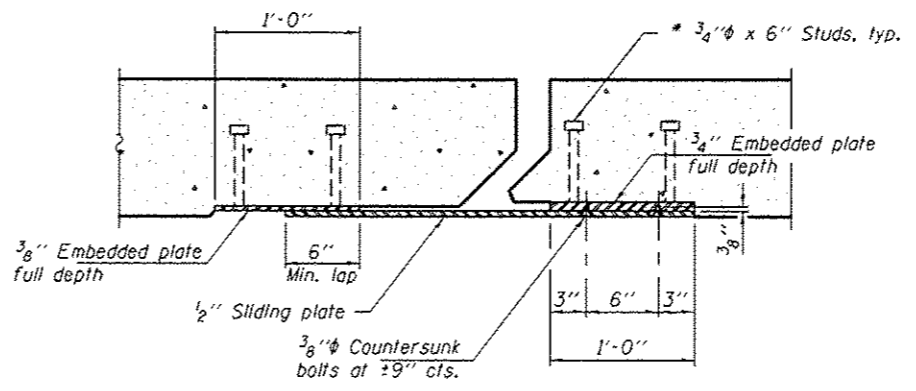
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.15/RS-3	BOND	226	177
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



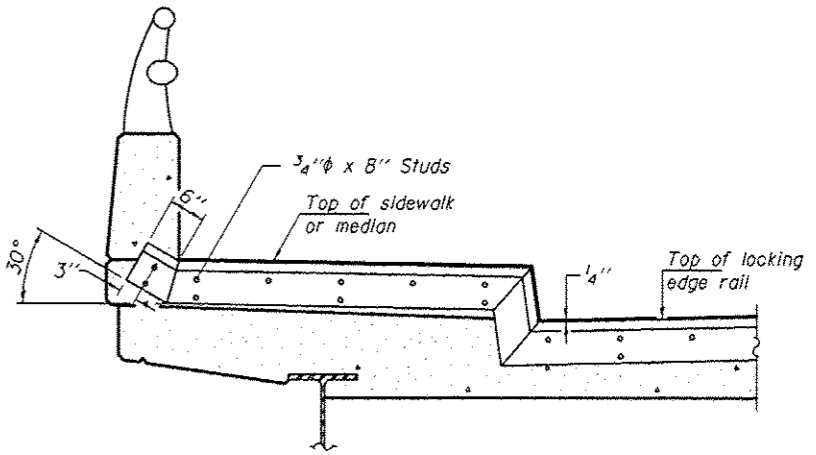
**PLAN**  
(For skews  $\leq 30^\circ$ )



**PLAN**  
(For skews  $> 30^\circ$ )  
Showing point black

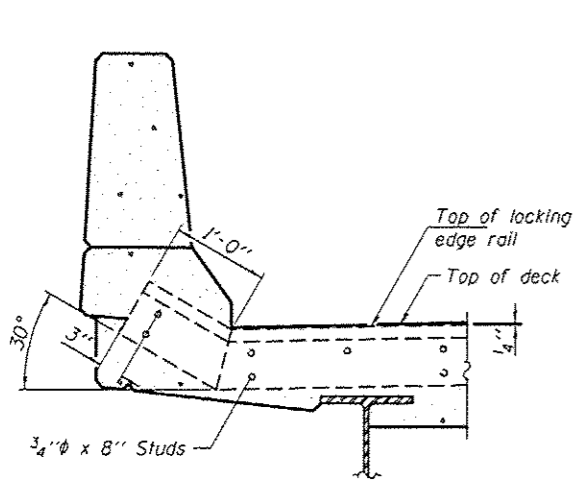


**SECTION C-C**

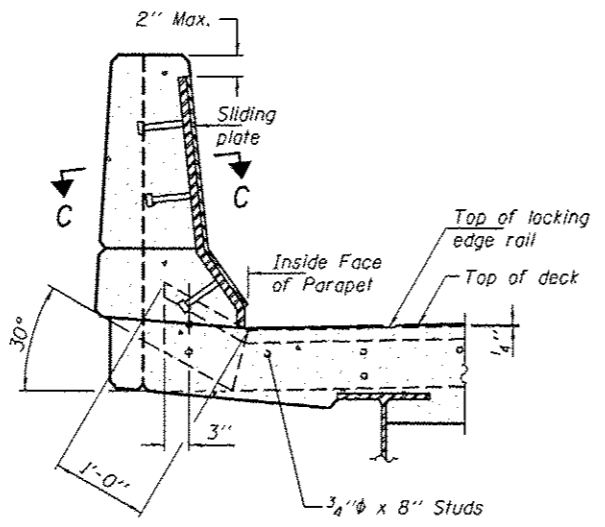


**TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN**

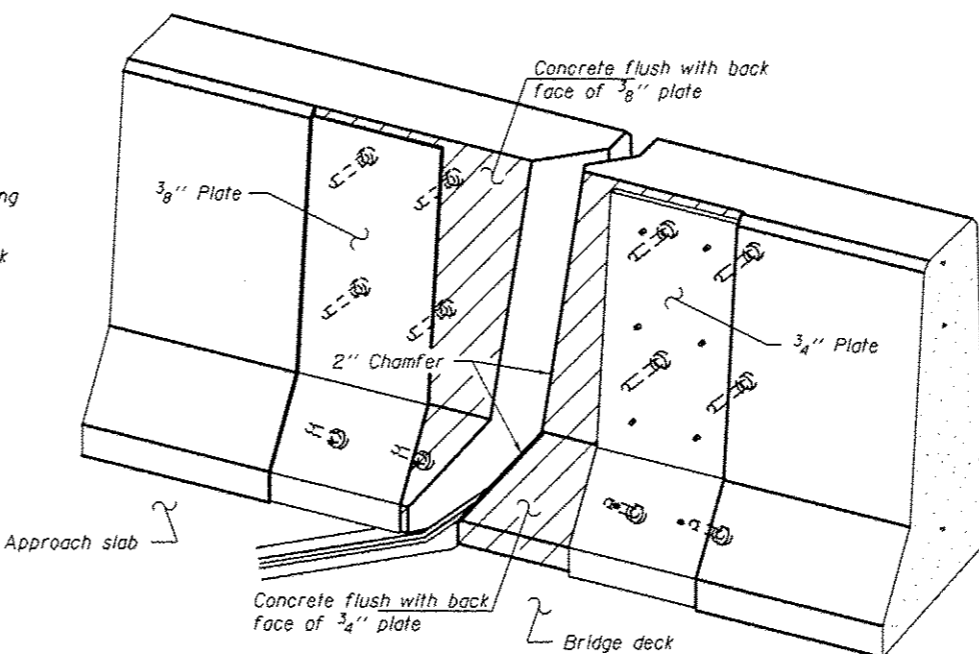
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



**SECTION A-A**



**SECTION B-B**



**TRIMETRIC VIEW**  
(Showing back plates only)

**Notes:**

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

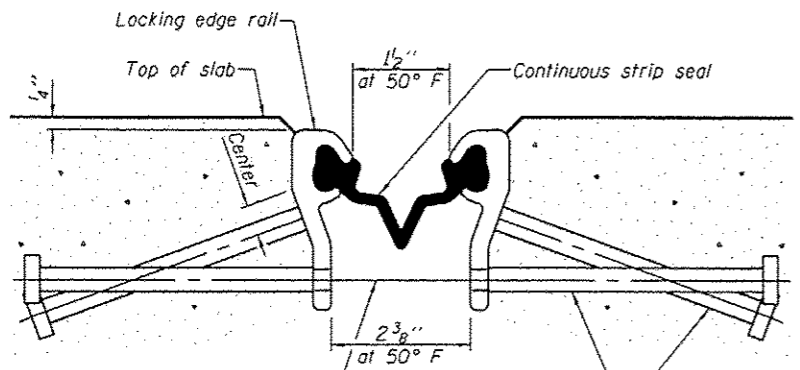
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

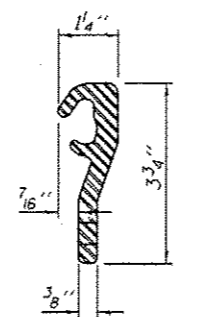
Parapet plates and anchorage studs for skews > 30 degrees included in the cost of Preformed Joint Strip Seal.



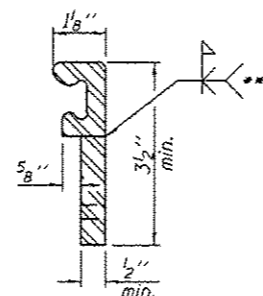
**SECTION THRU STRIP SEAL JOINT**

1/16" diameter holes at 4'-0" cts. for 3/8" diameter bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

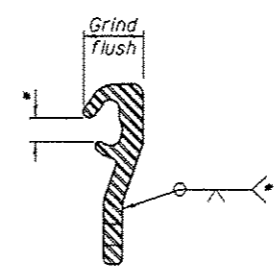
Place 1/2" diameter by 6" granular or solid flux filled headed studs conforming to Article 1005.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.



**ROLLED (EXTRUDED) RAIL**



**WELDED RAIL**



**LOCKING EDGE RAIL SPLICE**

Rolled rail shown, welded rail similar.

\* Omit weld at seal opening.

\*\* Back gouge not required if complete joint penetration is verified by mock-up.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	73

DESIGNED - SMR  
CHECKED - CCC  
DRAWN - Kyle M. Staffen  
CHECKED - SMR CCC

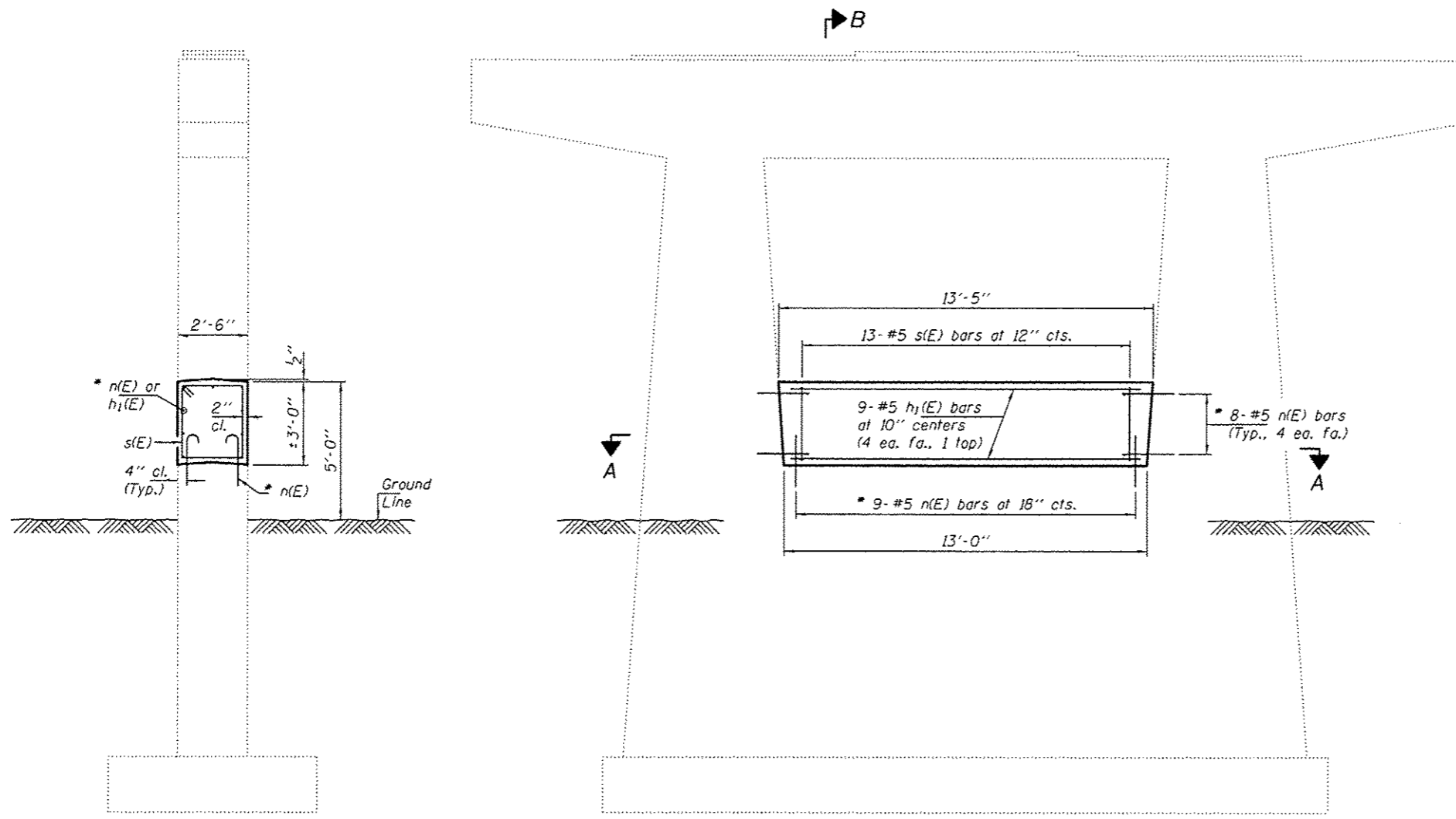
DATE - MAY 14, 2015  
PASSED  
*Carl Progg*  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS  
SN 003-0042  
SHEET NO. 4 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.15/RS-3	BOND	226	17B

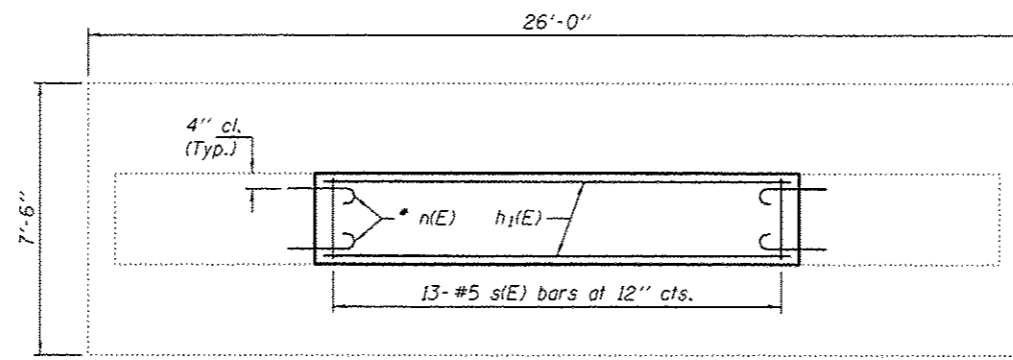
CONTRACT NO. 76F94  
ILLINOIS FED. AID PROJECT



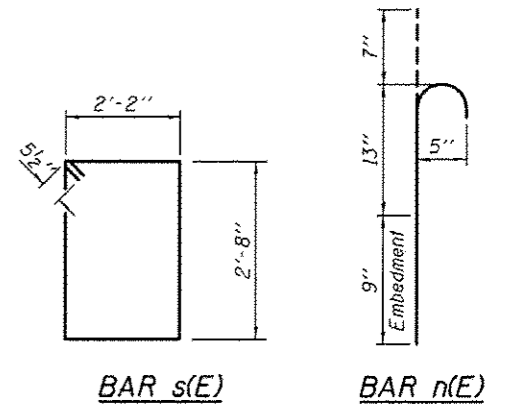
**SECTION B-B**

\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

**ELEVATION**



**SECTION A-A**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	9	#5	12'-8"	—
n(E)	34	#5	2'-5"	—
s(E)	13	#5	10'-7"	□
Concrete Structures			Cu. Yd.	2.5
Reinforcement Bars, Epoxy Coated			Pound	350

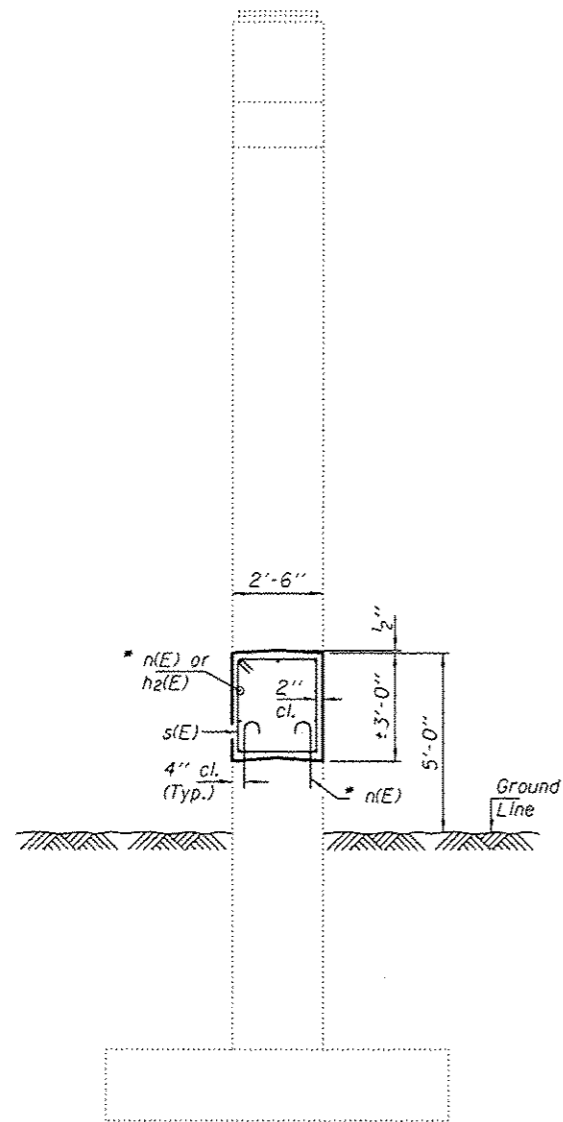
DESIGNED - SMR  
 CHECKED - CCC  
 DRAWN - Kyle M. Steffen  
 CHECKED - SMR CCC

PASSED  
  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES  
 DATE - MAY 14, 2015

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

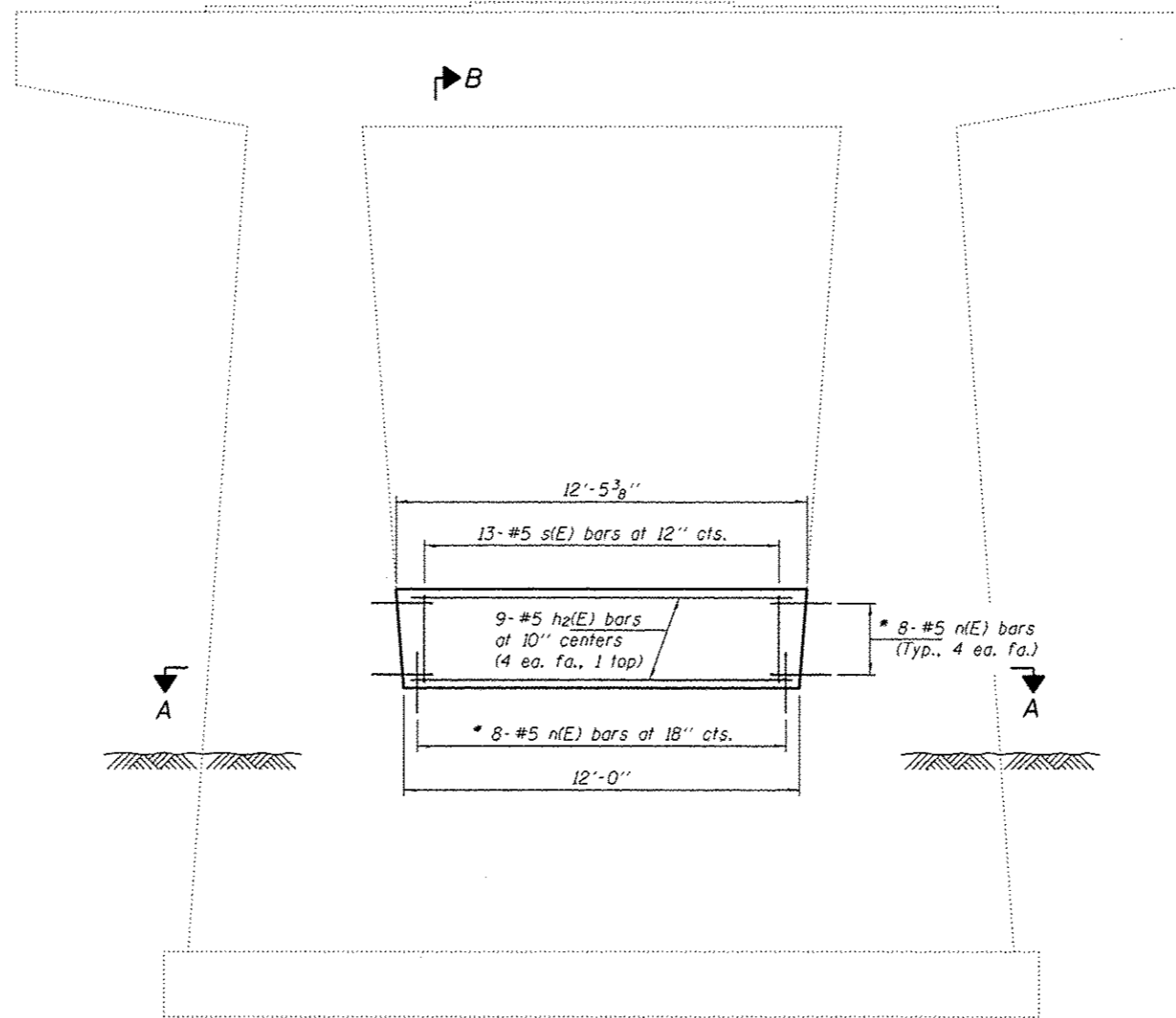
PIER 1 CRASHWALL EXTENSION DETAILS  
 SN 003-0042  
 SHEET NO. 5 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.15/R5-3	BOND	226	179
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	

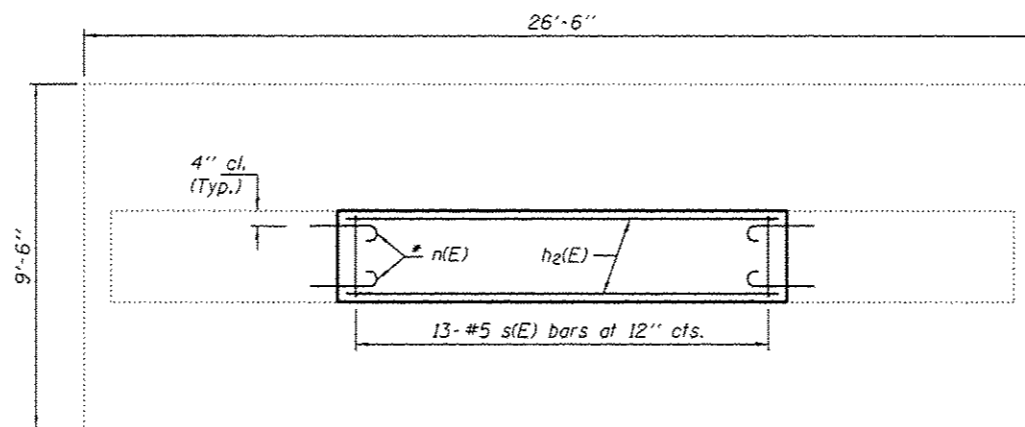


**SECTION B-B**

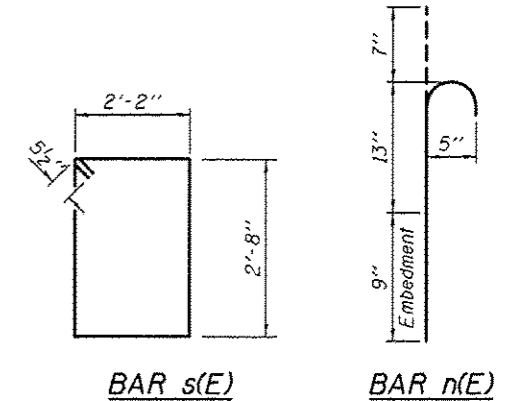
\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



**ELEVATION**



**SECTION A-A**




**BAR s(E)**

**BAR n(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>2</sub> (E)	9	#5	11'-8"	—
n(E)	32	#5	2'-5"	U
s(E)	13	#5	10'-7"	□
Concrete Structures			Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated			Pound	330

DESIGNED - SMR  
 CHECKED - CCC  
 DRAWN - Kyle M. Staffen  
 CHECKED - SMR CCC

PASSED  
  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES  
 DATE - MAY 14, 2015

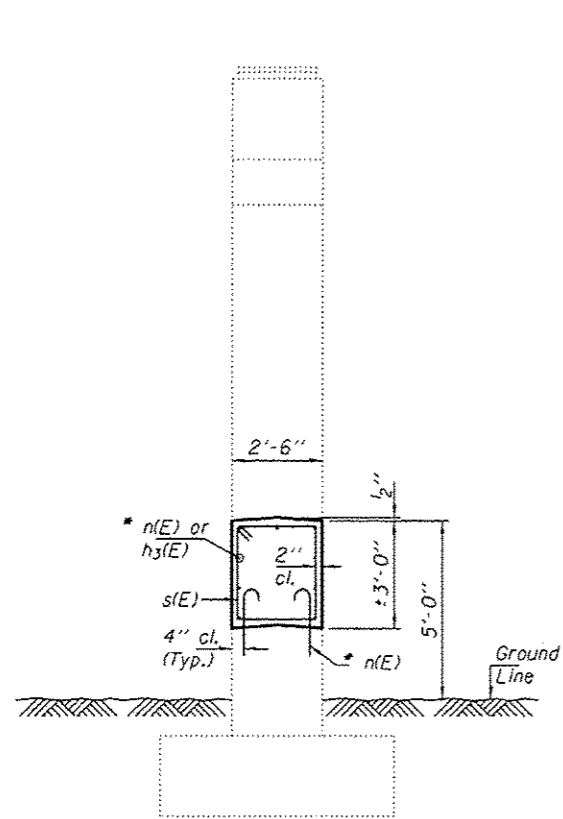
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER 2 CRASHWALL EXTENSION DETAILS  
 SN 003-0042

SHEET NO. 6 OF 9 SHEETS

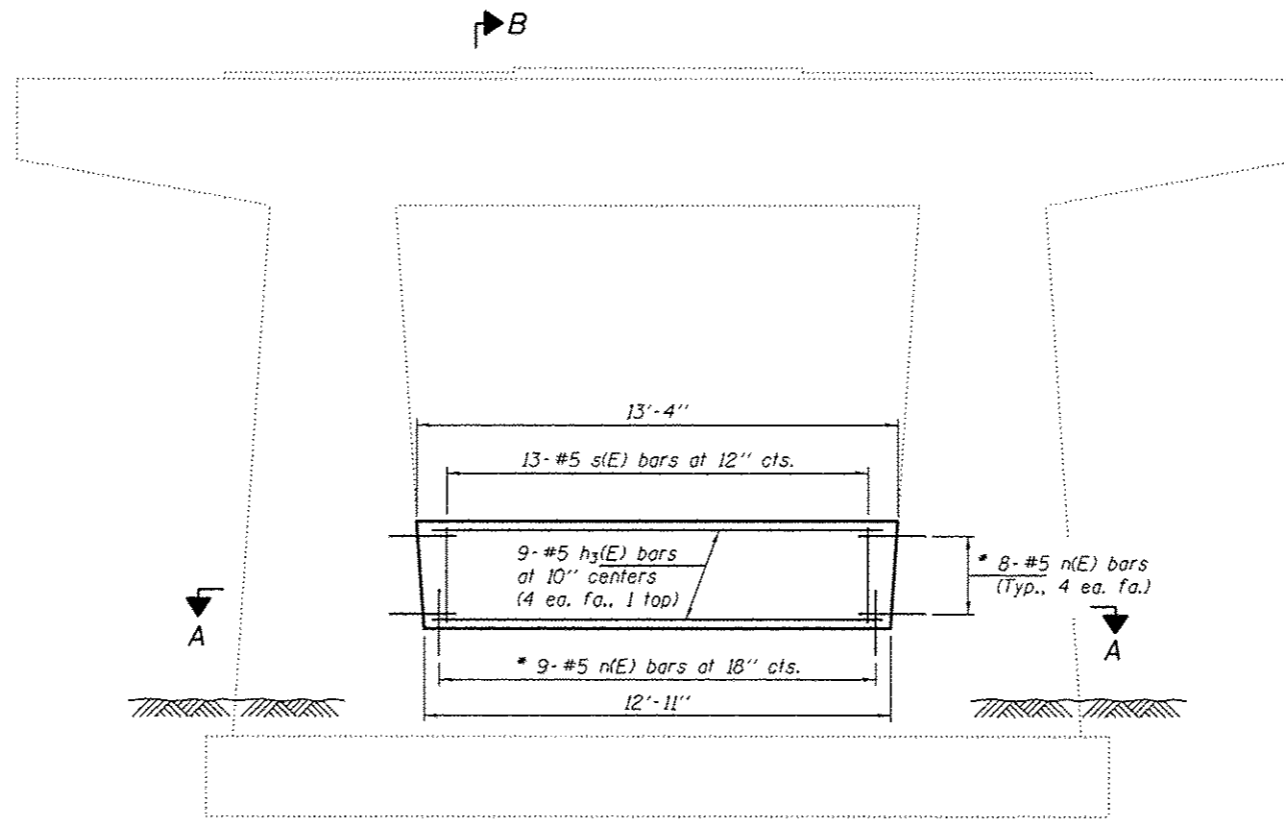
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113.14.15/RS-3	BOND	226	180
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



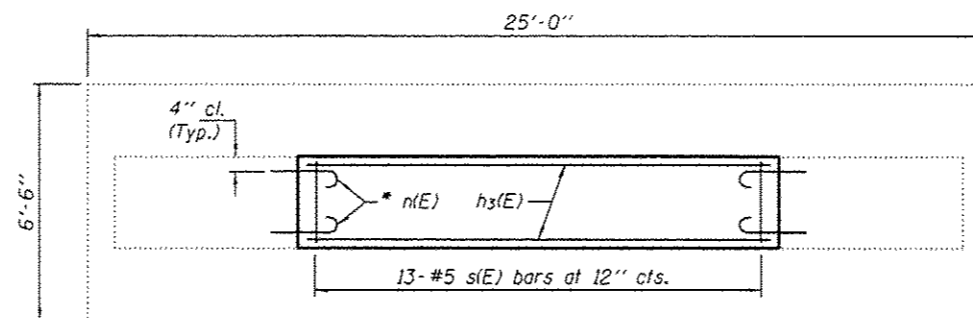


**SECTION B-B**

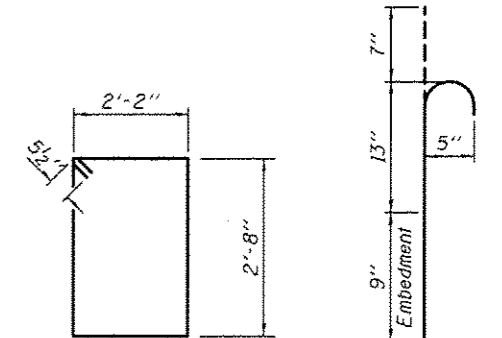
\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.



**ELEVATION**



**SECTION A-A**



**BAR s(E)**

**BAR n(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h3(E)	9	#5	12'-7"	—
n(E)	34	#5	2'-5"	⊔
s(E)	13	#5	10'-7"	⊔
Concrete Structures			Cu. Yd.	2.4
Reinforcement Bars, Epoxy Coated			Pound	340

DESIGNED - SMR  
 CHECKED - CCC  
 DRAWN - Kyle M. Steffen  
 CHECKED - SMR CCC

DATE - MAY 14, 2015  
 PASSED *[Signature]*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

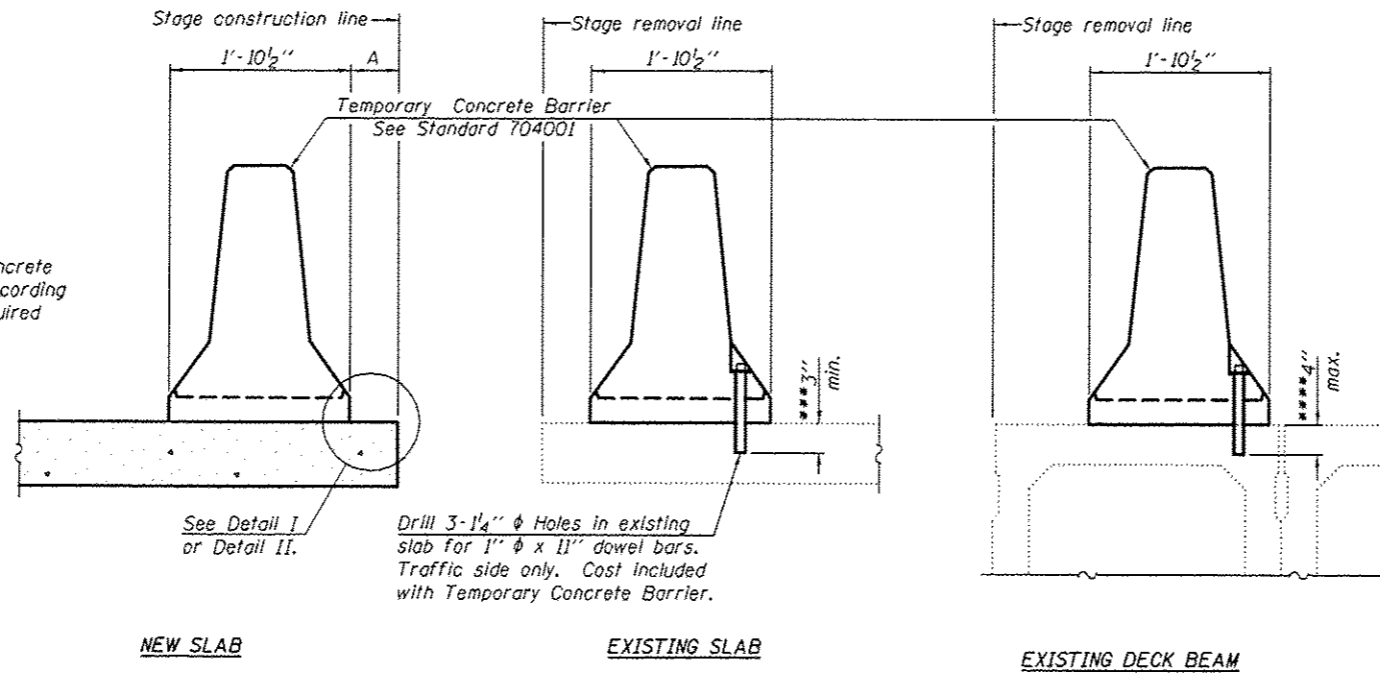
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER 3 CRASHWALL EXTENSION DETAILS  
 SN 003-0042

SHEET NO. 7 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	BOND	226	181
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

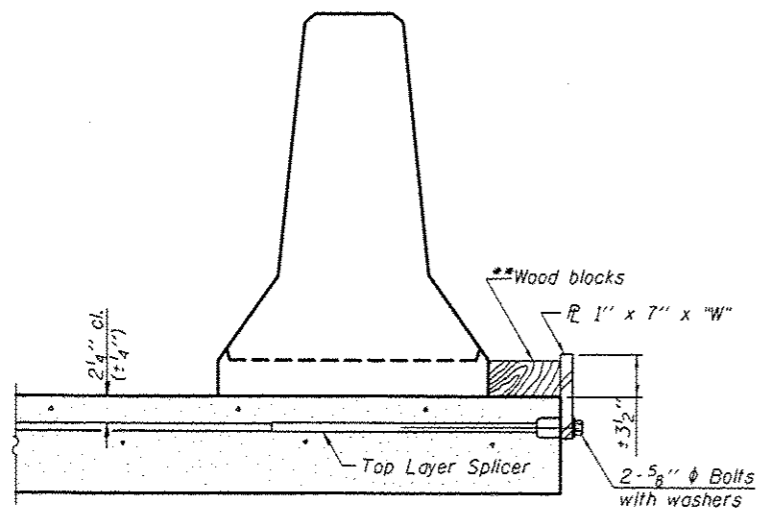
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place Inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

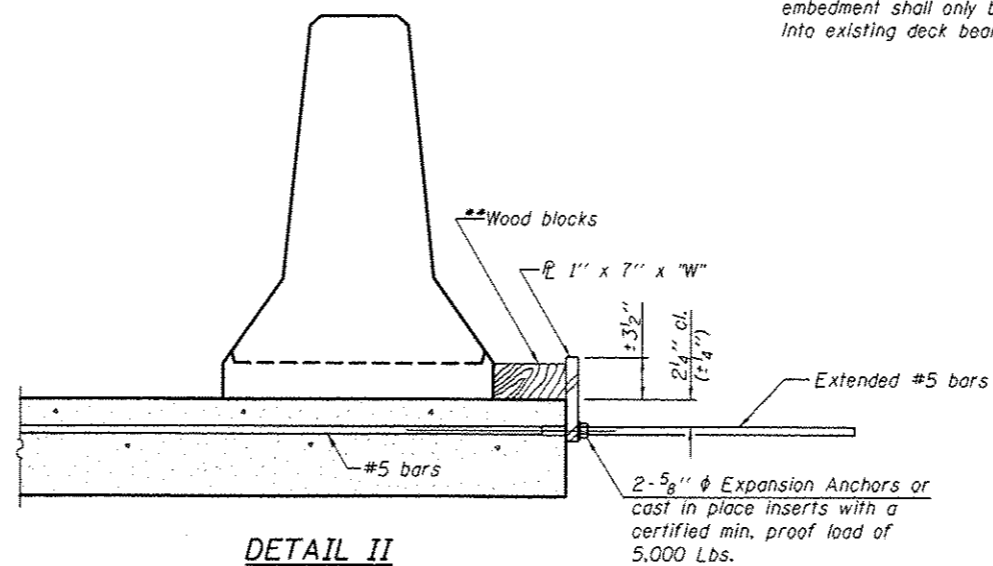
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



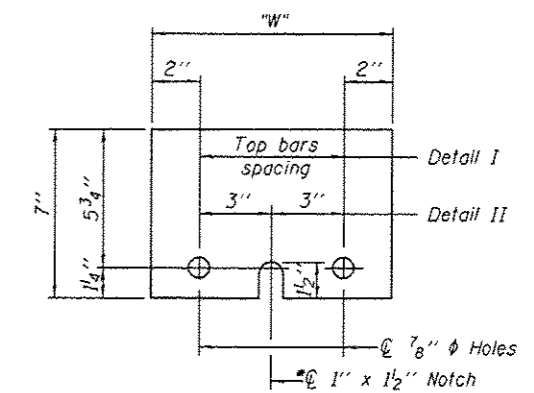
**DETAIL I**



**DETAIL II**

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



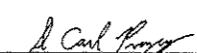
**STEEL RETAINER  $\bar{L}$  1" x 7" x "W"**

\* Required only with Detail II

R-27

7-1-10

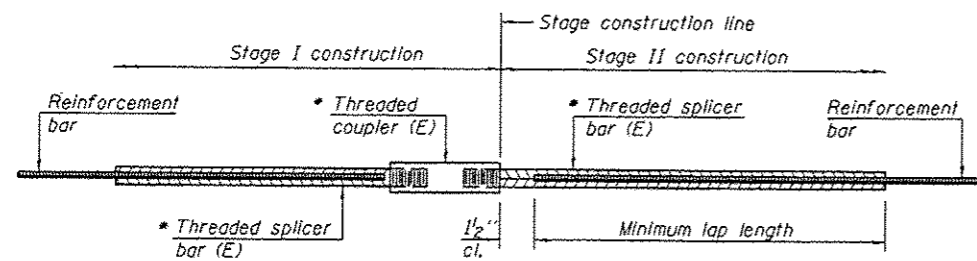
DESIGNED - SMR	CHECKED - CCC
DRAWN - Kyle M. Steffen	CHECKED - SMR
	CHECKED - CCC

DATE - MAY 14, 2015	PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES	

<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>
---

<b>TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION</b> <b>SN 003-0042</b>
SHEET NO. 8 OF 9 SHEETS

F.A.I. RTE. 70	SECTION 60-113.14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	COUNTY BOND	TOTAL SHEETS 226	SHEET NO. 182
			CONTRACT NO. 76F94	
ILLINOIS FED. AID PROJECT				

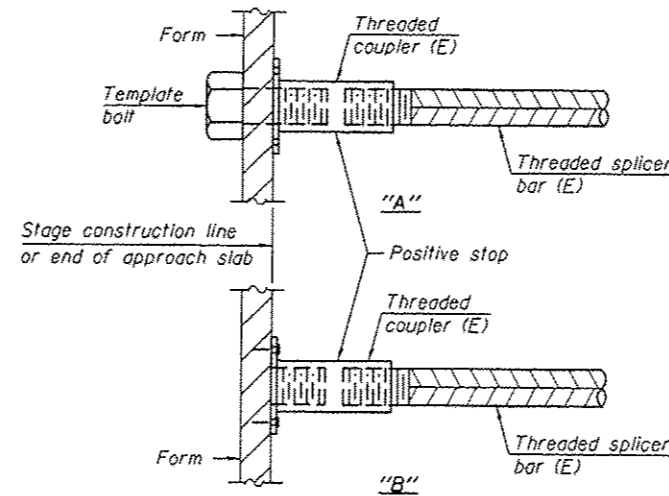


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1/2" + thread length

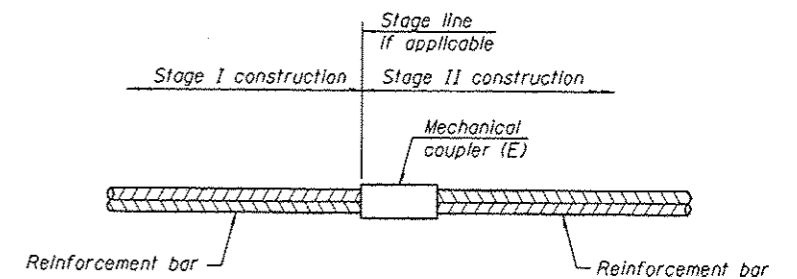
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	16	3'-6"
Backwall	#6	8	4'-0"



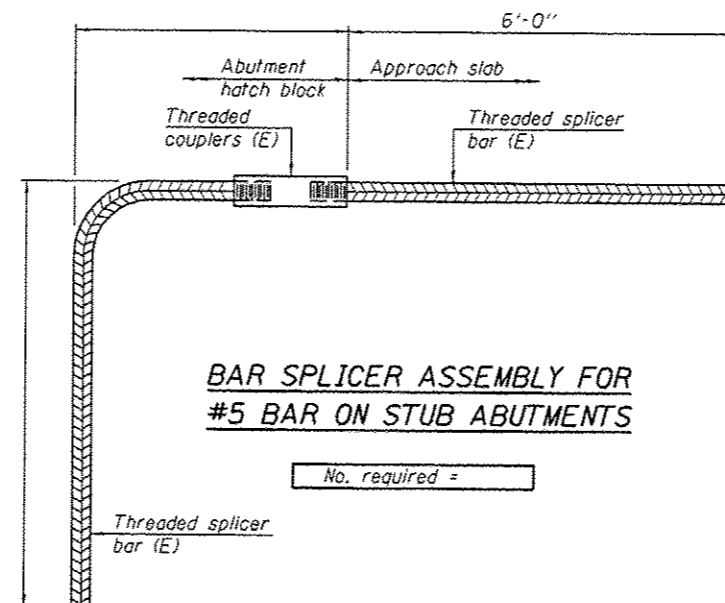
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 6-8-15

DESIGNED - SMR	PASSED
CHECKED - CCC	
DRAWN - Kyle M. Steffen	
CHECKED - SMR CCC	

DATE - MAY 14, 2015

ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

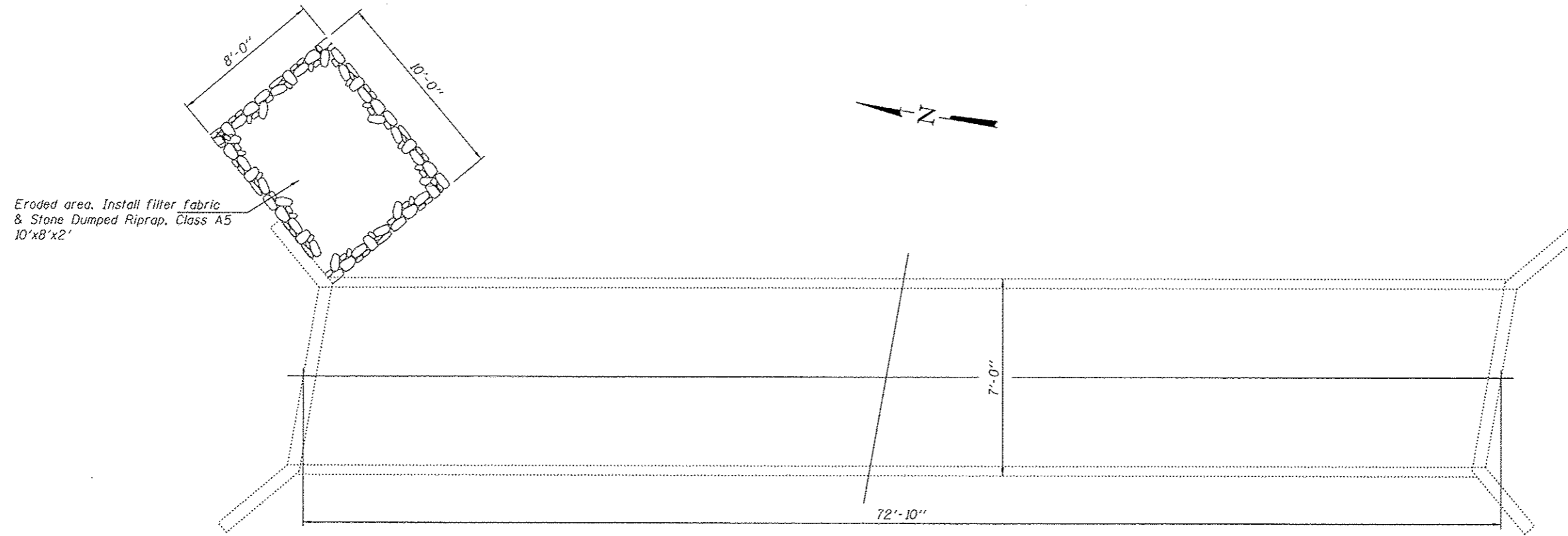
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 SN 003-0042

SHEET NO. 9 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15IRS-3	BOND	226	183
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

**NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



PLAN



Expires 11/30/16

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Stone Dumped Riprap, Class A5	Ton	9
Filter Fabric	Sq. Yd.	9

DESIGNED Tom L. Clark (ATH)  
 CHECKED Alvan J. Halboway  
 DRAWN Daliva  
 CHECKED TLC ATH

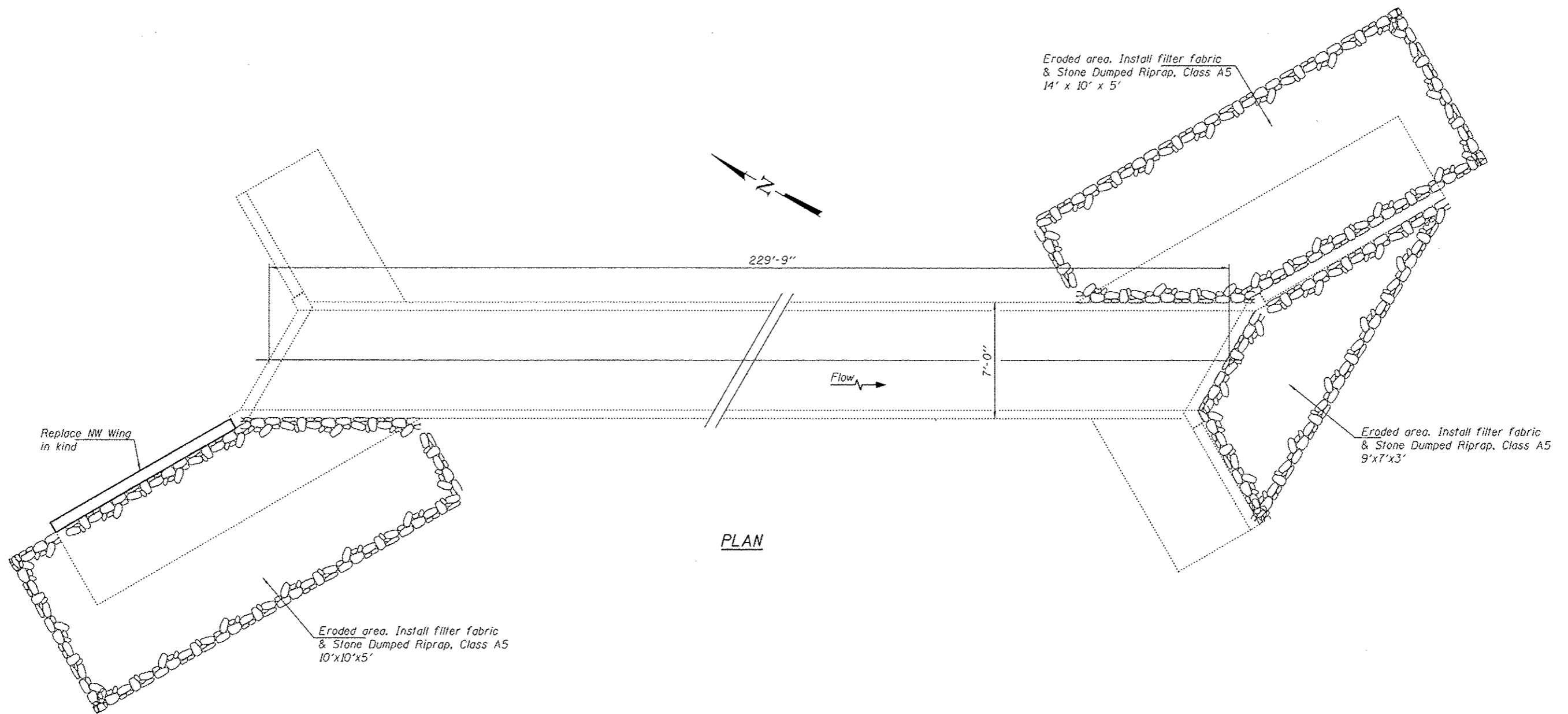
PASSED David Carl Puze  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 27, 2015  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN  
 SN 060-2536  
 SHEET NO. 1 OF 1 SHEETS

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15RS-3	MADISON	226	184
CONTRACT NO. 76F94			ILLINOIS FED. AID PROJECT	



PLAN

**NOTES**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Stone Dumped Riprap, Class A5	Ton	89
Filter Fabric	Sq. Yd.	42
Concrete Removal	Cu. Yd.	1.7
Concrete Structures	Cu. Yd.	1.7
Reinforcement Bars, Epoxy Coated	Pound	170



EXPIRES 11-30-2016

DESIGNED Tom L. Clark (ATH)  
 CHECKED Adrian T. Holloway  
 DRAWN baliva  
 CHECKED TLC ATH

PASSED

David Carl Puzey  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

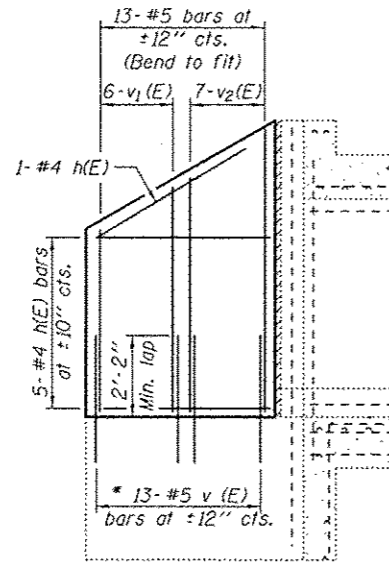
DATE MARCH 27, 2015  
 REVISED \_\_\_\_\_  
 REVISED \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

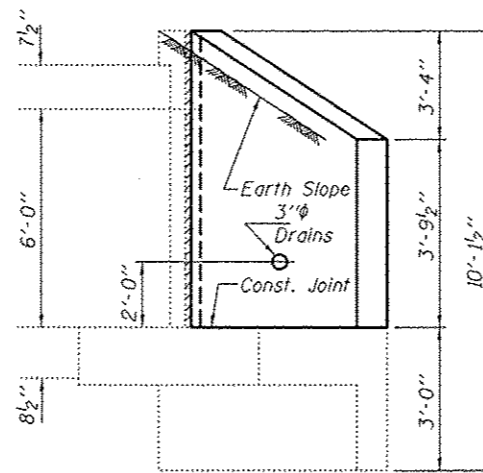
PLAN  
 SN 060-2537

SHEET NO. 1 OF 2 SHEETS

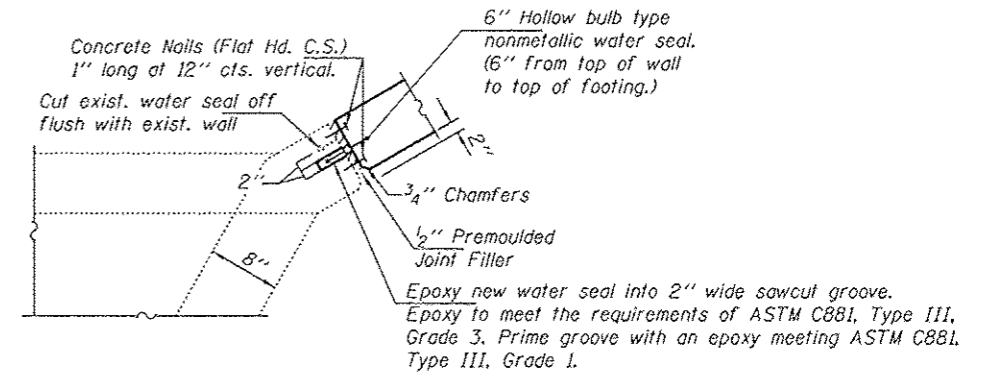
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15RS-3	MADISON	226	185
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F94	



WING SECTION

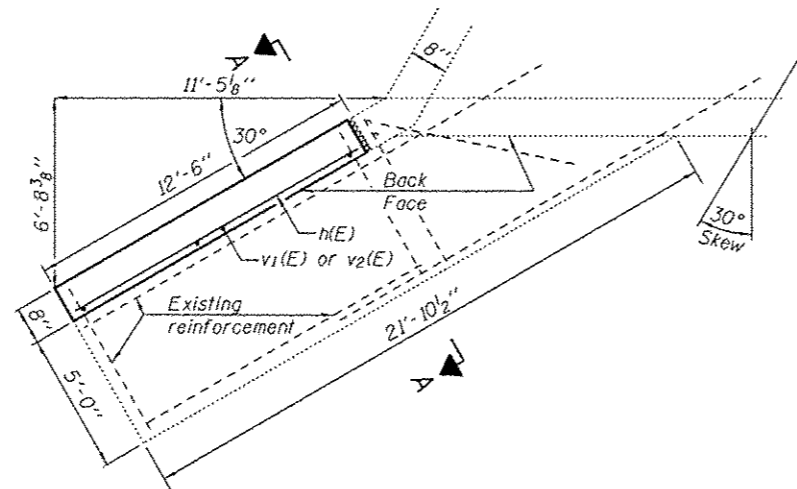


WING ELEVATION

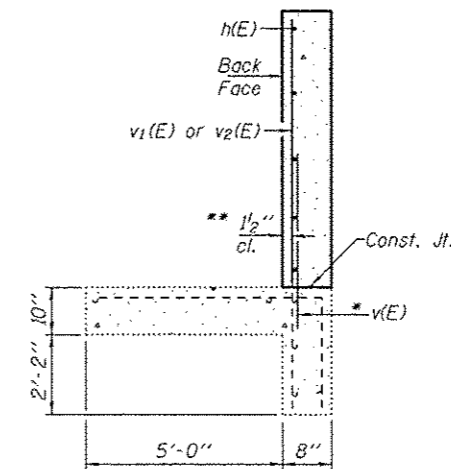


CORNER DETAIL

Cost of water seal included with Concrete Structures.



WING PLAN



SECTION A-A

\*\* v(E) bars shall not be placed more than 1 1/2 inch cl. from back face of wingwall.

\* Epoxy grout v(E) bars in 9 inch min. holes according to Article 584 of the Standard Specifications.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n(E)	6	#4	12'-2"	—
v(E)	13	#5	2'-11"	—
v1(E)	6	#5	4'-9"	—
v2(E)	7	#5	6'-8"	—
Concrete Removal			Cu. Yd.	1.7
Concrete Structures			Cu. Yd.	1.7
Reinforcement Bars, Epoxy Coated			Pound	170

Existing NW wingwall to be removed and rebuilt. Removal to be paid for as Concrete Removal.

DESIGNED TLC  
 CHECKED ATH  
 DRAWN baliva  
 CHECKED TLC ATH

PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 27, 2015  
 REVISED  
 REVISED

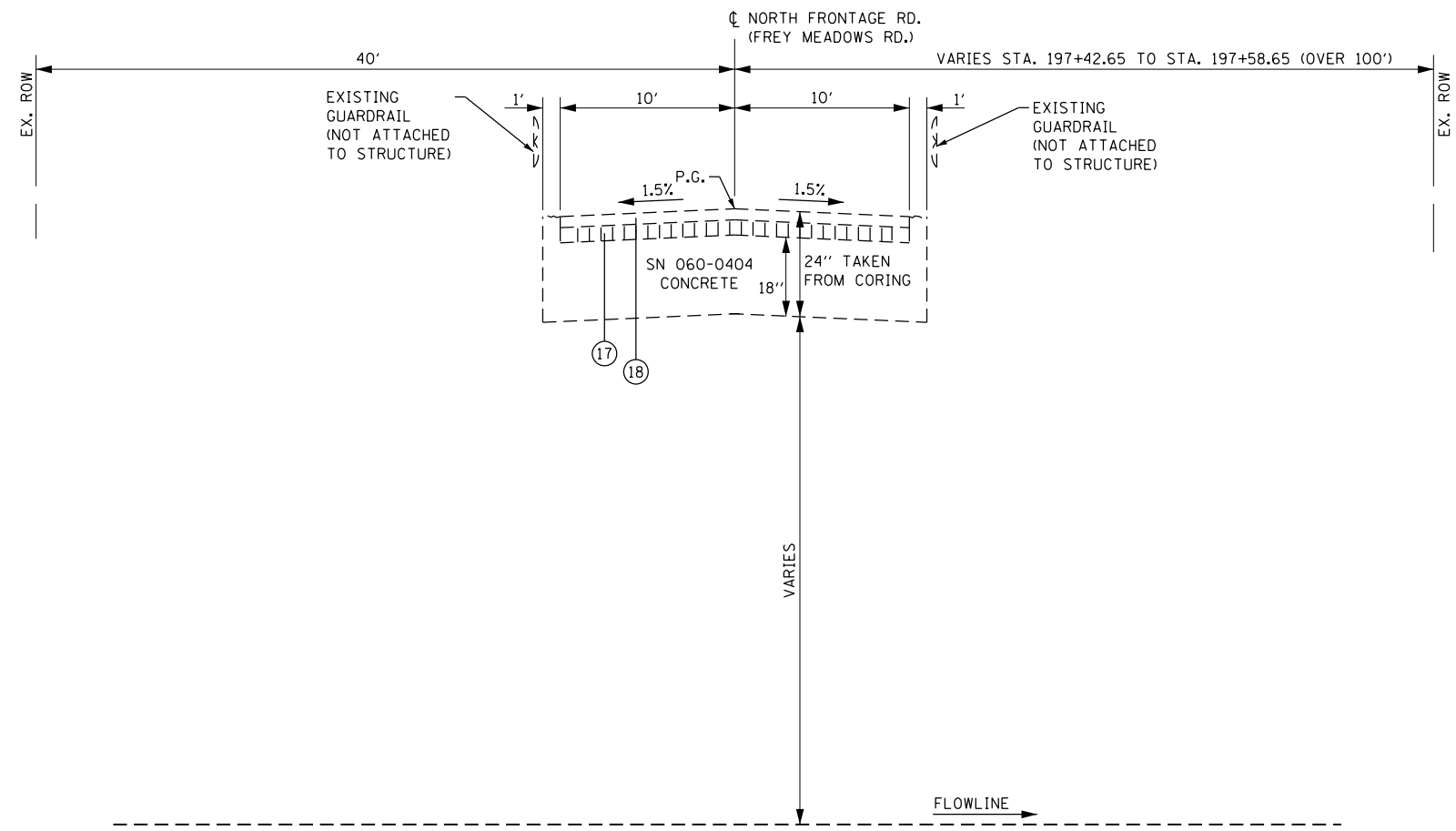
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN  
 SN 060-2537

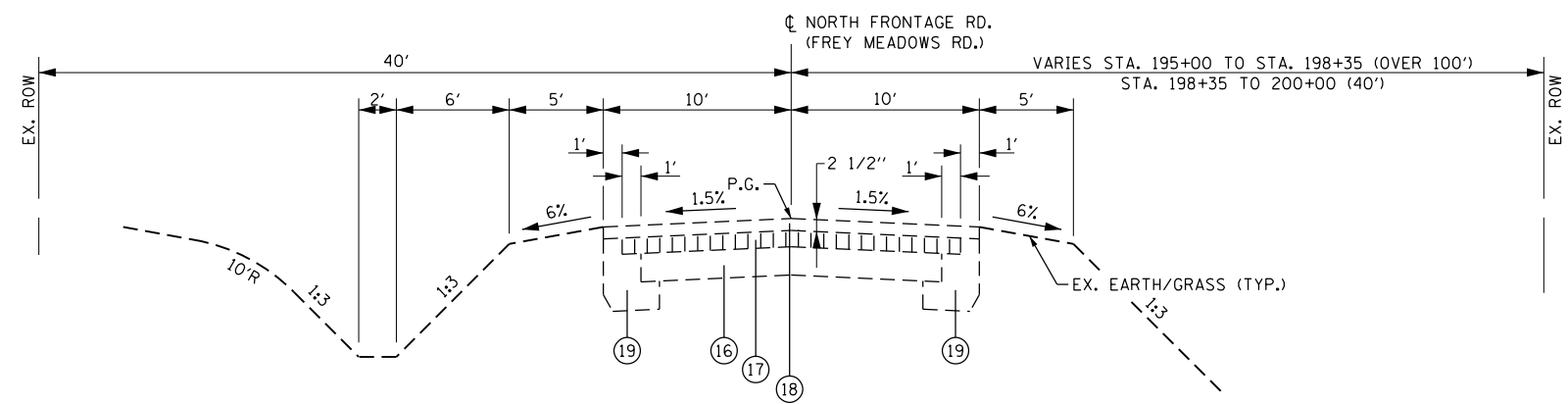
SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-113,14,15RIS-3	MADISON	226	186

CONTRACT NO. 76F94  
 ILLINOIS FED. AID PROJECT



**EXISTING TYPICAL SECTION**  
 STA. 197+42.65 TO STA. 197+58.65



**EXISTING TYPICAL SECTION**  
 STA. 195+00 TO STA. 197+42.65  
 STA. 197+58.65 TO STA. 200+00

**LEGEND**

- ⑬ EXISTING PC CONCRETE PAVEMENT
- ⑭ EXISTING BRICK WEARING SURFACE
- ⑮ EXISTING HMA SURF. CSE., SUBCLASS I-11  
W/BITUMINOUS MATERIALS (COVER AND SEAL COATS) - 2 1/2"±
- ⑯ EXISTING CONCRETE CURB
  
- ⑰ PROPOSED AGGREGATE SHOULDER, TYPE B - 6"
- ⑱ PROPOSED HOT-MIX ASPHALT SHOULDERS, 6"
- ⑲ PROPOSED CLASS D PATCHES, TYPE IV, 12 INCH
- ⑳ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
p:\11084EBID\INTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 8\Projects\0875\DRAWING\DATA\EDITS\CONSULTANTS\REVISED\694-sht-typicals-Sugar Creek.dgn			
Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2016	DATE -	REVISED -

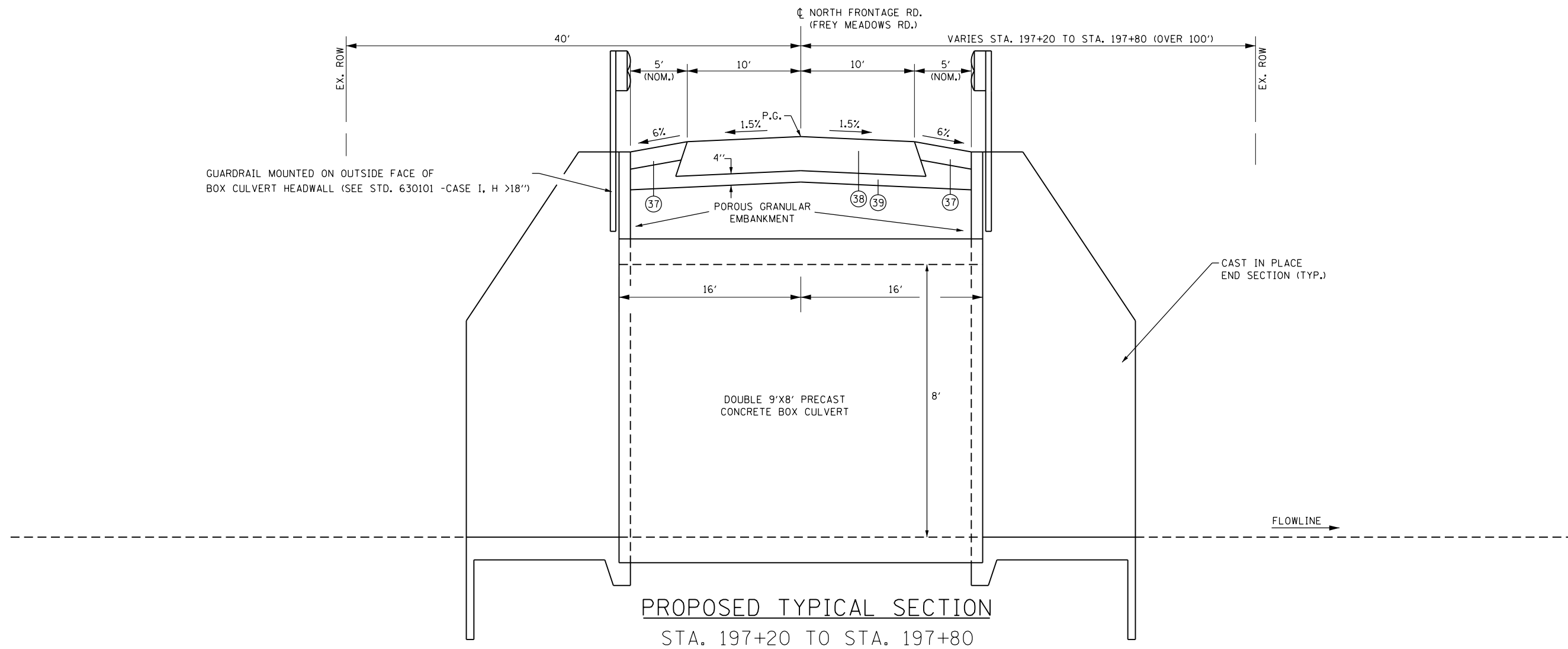
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS**  
**N. FRONTAGE RD. (FREY MEADOWS RD.)**

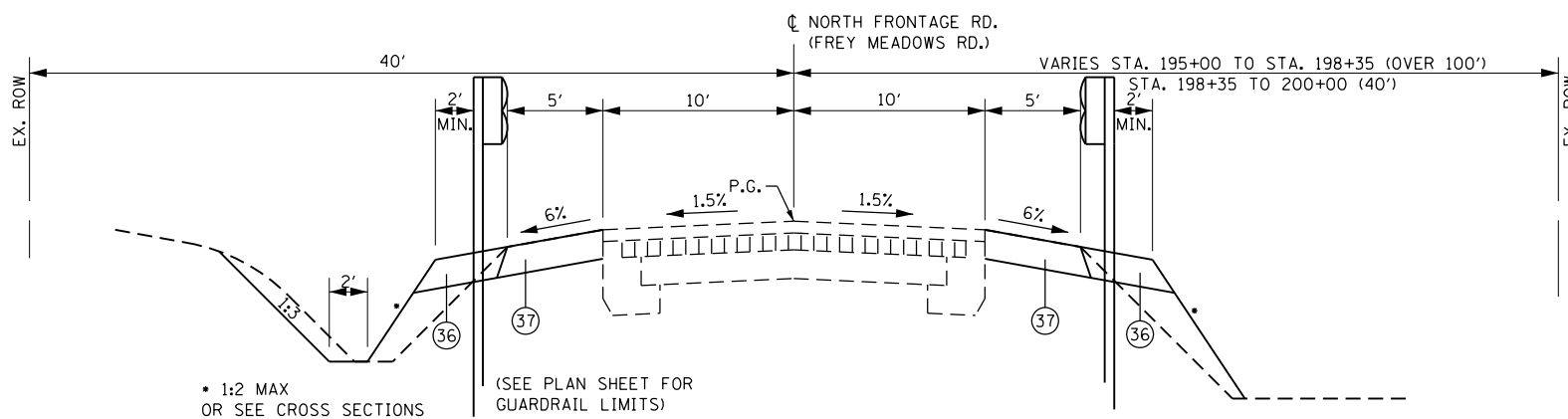
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	187
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND



**PROPOSED TYPICAL SECTION**  
STA. 197+20 TO STA. 197+80



**PROPOSED TYPICAL SECTION**  
STA. 196+00 TO STA. 197+20  
STA. 197+80 TO STA. 199+00

**LEGEND**

- 16 EXISTING PC CONCRETE PAVEMENT
- 17 EXISTING BRICK WEARING SURFACE
- 18 EXISTING HMA SURF. CSE., SUBCLASS I-11  
W/BITUMINOUS MATERIALS (COVER  
AND SEAL COATS) - 2 1/2"±
- 19 EXISTING CONCRETE CURB
- 36 PROPOSED AGGREGATE SHOULDER, TYPE B - 6"
- 37 PROPOSED HOT-MIX ASPHALT SHOULDERS, 6"
- 38 PROPOSED CLASS D PATCHES, TYPE IV, 12 INCH
- 39 PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -
p:\11\084EBID\INTEG.illinois.gov\PIWID\Documents\DOT Offices\District 8\Projects\0875\Drawings\DATA\Sheets\EDITED\CONSULTANTS\REVISED\694-sht-typicals-Sugar Creek.dgn		CHECKED -	REVISED -
Johnson, Depp & Outenberry CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE = 10.0000 "/>		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS  
N. FRONTAGE RD. (FREY MEADOWS RD.)**

SCALE: SHEET OF SHEETS STA. TO STA.

• MADISON/BOND					
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
70	60-(13,14,15)RS-3		226	188	
				<b>CONTRACT NO. 76F94</b>	
ILLINOIS FED. AID PROJECT					



TREE REMOVAL SCHEDULE	
LOCATION	ACRE
60' RT., STA. 197+18 TO 45' RT., STA. 197+85	0.02
40' LT., STA. 197+20 TO 40' LT., STA. 197+75	0.01
TOTAL =	0.03
PAY TOTAL	0.25

EARTHWORK SCHEDULE		
LOCATION	EARTH EXCAVATION	FURNISHED EXCAVATION
	CU YD	CU YD
STA. 195+60 TO STA. 199+40	268	66
TOTAL =	268	66

SEEDING SCHEDULE					
LOCATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
	ACRE	POUND	POUND	POUND	ACRE
STA. 195+60 TO STA. 199+40	0.16	15	15	15	0.16
TOTAL =	0.16	15	15	15	0.16
PAY TOTAL	0.25	15	15	15	0.25

EROSION CONTROL SCHEDULE			
LOCATION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS
	SQ YD	POUND	FOOT
STA. 195+60 TO STA. 199+40	12029	28	
RT., STA. 196+50			12
LT., STA. 197+25			16
RT., STA. 197+25			16
LT., STA. 197+75			16
RT., STA. 197+75			16
LT., STA. 198+00			12
RT., STA. 198+00			12
RT., STA. 198+50			12
TOTAL =	12029	28	112

RIPRAP SCHEDULE		
LOCATION	STONE RIPRAP, CLASS A5	FILTER FABRIC
	SO YD	SO YD
RT., STA. 196+50 TO RT., STA. 197+25	97	97
LT., STA. 196+75 TO LT., STA. 197+25	82	82
RT., STA. 197+75 TO RT., STA. 198+00	41	41
LT., STA. 197+75 TO LT., STA. 198+00	29	29
TOTAL =	249	249

PAVING SCHEDULE					
LOCATION	PAVEMENT REMOVAL	SUBBASE GRANULAR MATERIAL, TYPE A	CLASS D PATCHES, TYPE IV, 12 INCH	HOT-MIX ASPHALT SHOULDERS, 6"	AGGREGATE SHOULDERS, TYPE B 6"
	SO YD	TON	SO YD	SO YD	SO YD
RT., STA. 195+63 TO RT., STA. 198+84				178	
LT., STA. 196+75 TO LT., STA. 199+38				146	
RT., STA. 195+63 TO RT., STA. 197+39					74
LT., STA. 196+75 TO LT., STA. 197+39					27
RT., STA. 197+60 TO RT., STA. 198+84					52
LT., STA. 197+60 TO LT., STA. 199+38					74
STA. 197+20 TO STA. 197+80	133	129	133		
TOTAL =	133	129	133	324	227

GUARDRAIL SCHEDULE						
LOCATION	GUARDRAIL REMOVAL	SPB GUARDRAIL, TYPE A, 6 FOOT	SPB GUARDRAIL, ATTACHED TO STR.	TRAFFIC BARRIER TERMINAL, TYPE 1	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER DIRECT APPLIED
	FOOT	FOOT	FOOT	EACH	EACH	EACH
LT., STA. 197+37 TO LT., STA. 197+62	25					
RT., STA. 197+37 TO RT., STA. 197+62	25					
RT., STA. 195+99.50 TO RT., STA. 198+49.50		125	25	2	4	2
LT., STA. 196+87.00 TO LT., STA. 198+99.50		87.5	25	2	4	2
TOTAL =	50	212.5	50	4	8	4

TRAFFIC CONTROL AND PROTECTION, (SPECIAL)  
ROAD CLOSURE @ SN 060-0404  
(N. FRONTAGE RD. - FREY MEADOWS RD.) 1 EACH

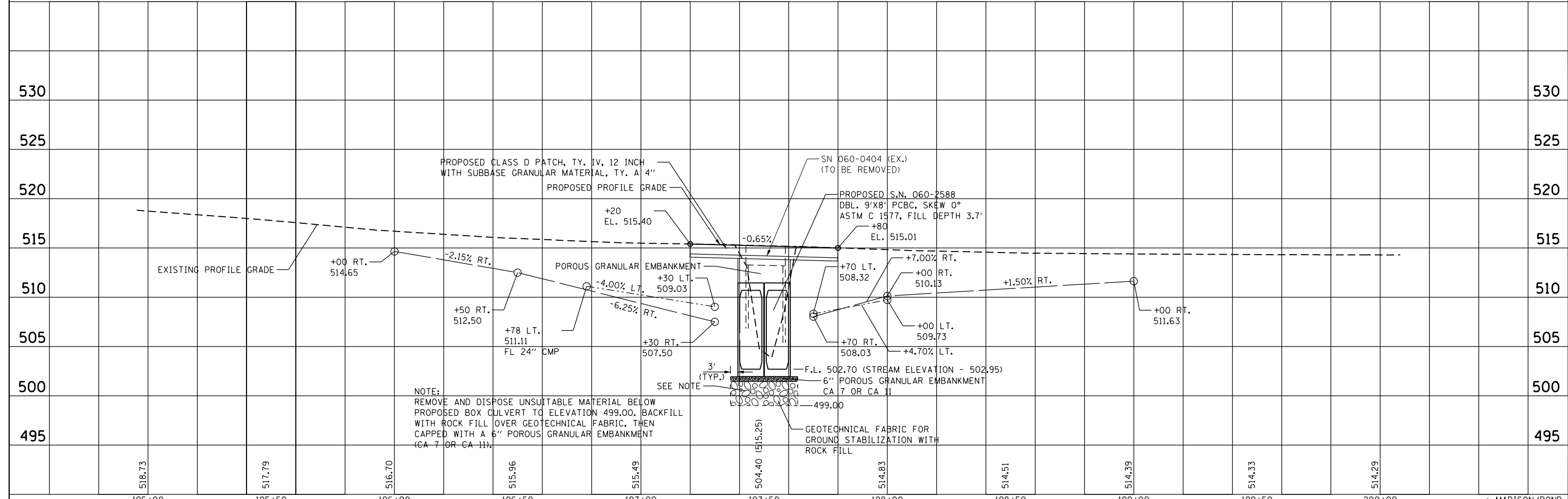
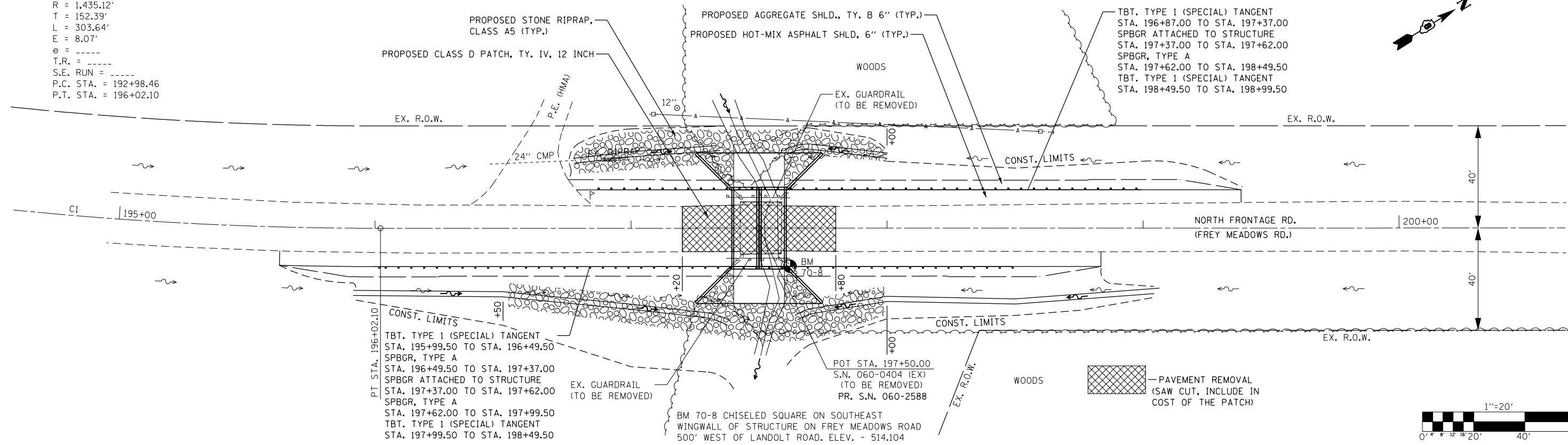
PAY ITEMS RELATED TO EXCAVATION-BACKFILL FOR BOX CULVERT  
(SEE PLANS)

POROUS GRANULAR EMBANKMENT - 92 CU YDS  
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION - 224 SQ YDS  
ROCK FILL - FOUNDATION - 224 CU YDS  
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES - 261 CU YDS

EXIST. CURVE C1  
 PI STA. = 194+50.85  
 $\Delta = 12^\circ 07' 21''$  (LT)  
 $R = 1,435.12'$   
 $T = 152.39'$   
 $L = 303.64'$   
 $E = 8.07'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 $P.C. \text{ STA.} = 192+98.46$   
 $P.T. \text{ STA.} = 196+02.10$

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
CADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	



NOTE:  
 REMOVE AND DISPOSE UNSUITABLE MATERIAL BELOW PROPOSED BOX CULVERT TO ELEVATION 499.00. BACKFILL WITH ROCK FILL OVER GEOTECHNICAL FABRIC, THEN CAPPED WITH A 6" POROUS GRANULAR EMBANKMENT (CA 7 OR CA 11).

FILE NAME =	USER NAME = childsl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN/PROFILE SHEET S.N. 060-0404		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -					70	60-(13,14,15)RS-3		226	190
	PLOT DATE = 5/6/2016	DATE -	REVISED -			SCALE: 1"=20'		SHEET OF SHEETS		STA. 195+00 TO STA. 200+00		CONTRACT NO. 76F94

\* MADISON/BOND  
 ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

TYPE III BARRICADES AND R11-2-4830 SIGNS SHALL BE POSITIONED AS SHOWN IN "ROAD CLOSURE TO ALL TRAFFIC" DETAIL ON HIGHWAY STANDARD BLR 21.

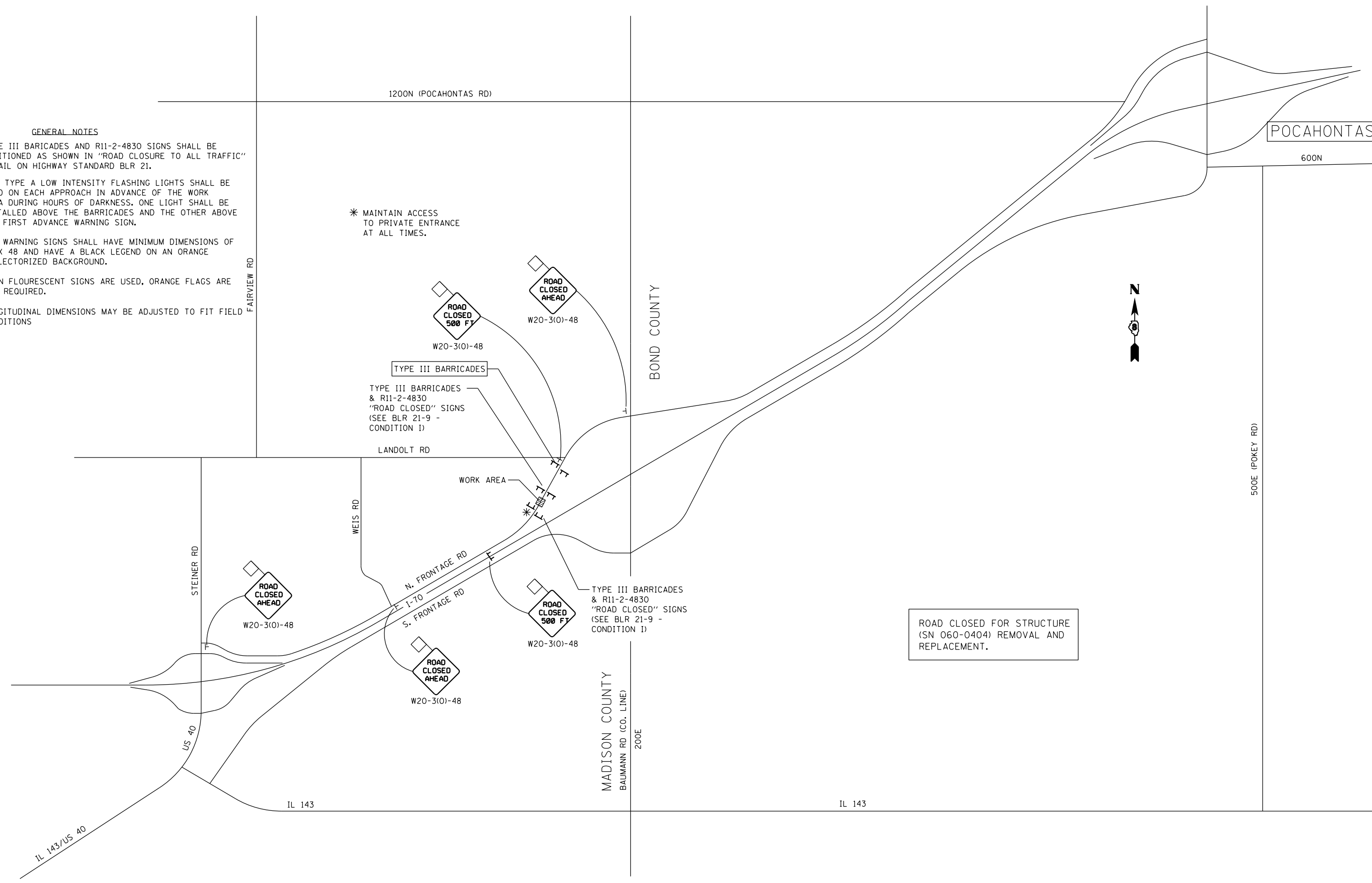
TWO TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS. ONE LIGHT SHALL BE INSTALLED ABOVE THE BARRICADES AND THE OTHER ABOVE THE FIRST ADVANCE WARNING SIGN.

ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48 X 48 AND HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.

WHEN FLOURESCENT SIGNS ARE USED, ORANGE FLAGS ARE NOT REQUIRED.

LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS

\* MAINTAIN ACCESS TO PRIVATE ENTRANCE AT ALL TIMES.



ROAD CLOSED FOR STRUCTURE (SN 060-0404) REMOVAL AND REPLACEMENT.

FILE NAME =	USER NAME = MurrayDA	DESIGNED -	REVISED -
Default		CHECKED -	REVISED -
	PLOT DATE = 5/11/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TEMPORARY ROAD CLOSURE</b>			
<b>N. FRONTAGE RD. (FREY MEADOWS RD.) SN 060-0404</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	191
CONTRACT NO. 76F94				
ILLINOIS FED. AID PROJECT				

• MADISON/BOND

B.M. #70-8: Chiseled square on SE wingwall of structure on Frey Meadows Rd., 500' West of Landolt Rd., Elev. 514.10.

EXISTING STRUCTURE: SN 060-0404, built in 1919 as The National Road, Project 9 Section 33 at Sta. 197+50. Existing structure is a single span reinforced concrete slab bridge, 16'-0" back-back abutments, 22'-0" out-out width, with reinforced concrete closed abutments on spread footings.

Existing structure shall be removed and replaced while traffic is detoured.

No salvage.

**INDEX OF SHEETS**

- 1 Gen Plan, Gen Notes, Bill of Mat'l
- 2 Box Culvert End Section
- 3 Soil Borings

**GENERAL NOTES**

The Precast Concrete Box Culvert shall conform to ASTM C1577, using a design Fill Depth of 3.7 feet.

Precast substitution for the cast-in-place end sections will not be allowed.

Reinforcement bars designated (E) shall be epoxy coated.

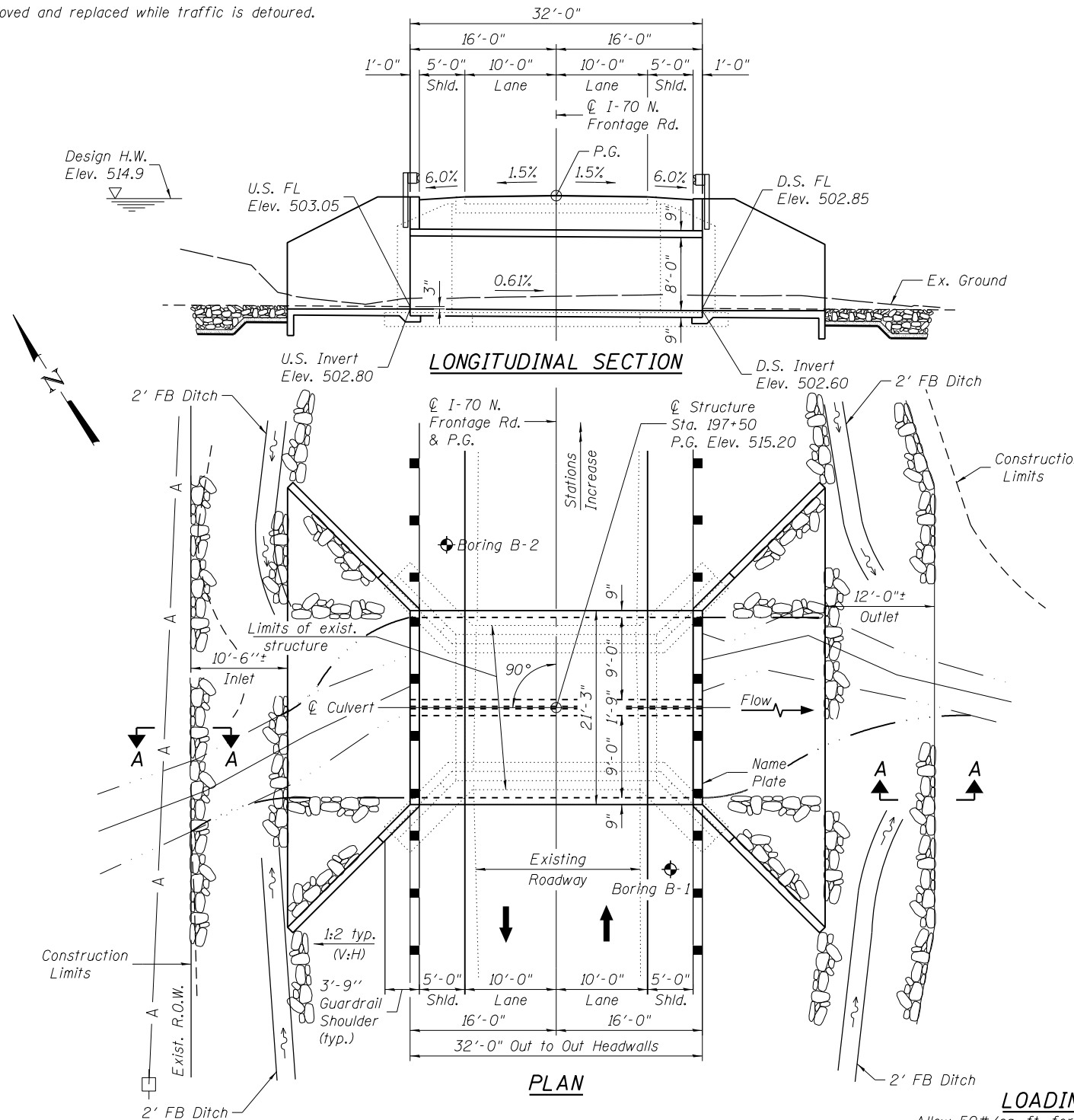
Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Broken Concrete from the removal of the existing structure may be used for all or part of the Stone Riprap. Materials and placement shall be according to the applicable provisions of Article 1005.01 and Section 281 of the Standard Specifications.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

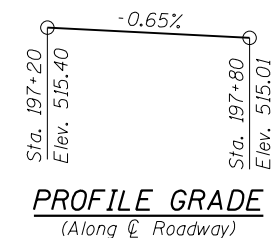
Structure excavation for the box culvert will not be measured or paid for separately, and the cost shall be included in other related items according to Article 502.13 of the Standard Specifications.

For backfill and embankment, see roadway plans and Special Provisions.

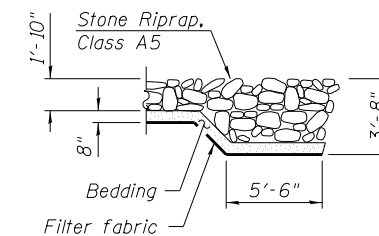


STATION 197+50  
BUILT 20... BY  
STATE OF ILLINOIS  
LOADING HL-93  
STRUCTURE NO. 060-2588

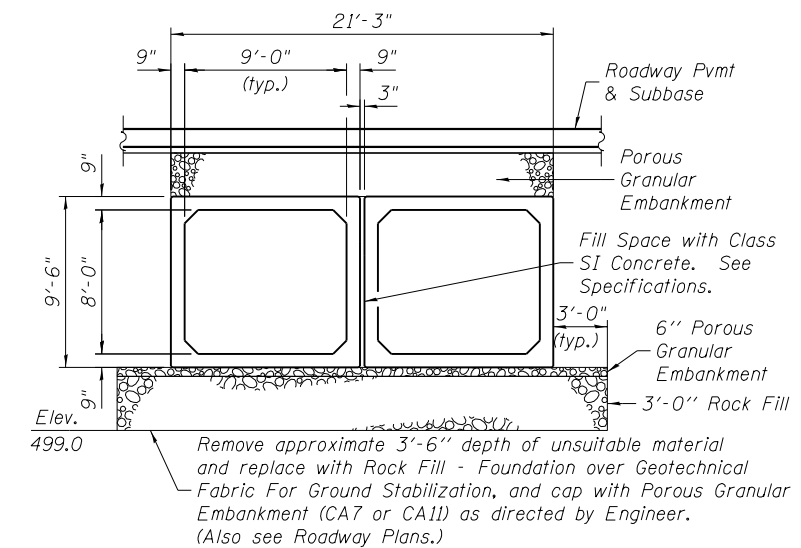
**NAME PLATE**  
See Std. 515001



**PROFILE GRADE**  
(Along Centerline of Roadway)



**SECTION A-A**



**SECTION THRU PRECAST BARREL**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq Yd	173
Filter Fabric	Sq Yd	173
Removal Of Existing Structures No. 1	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts 9' x 8'	Foot	64

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.  
**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications,  
6th Edition, with 2013 Interims

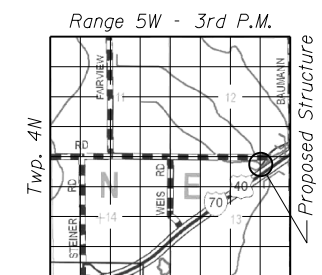
**DESIGN STRESSES**

**PRECAST UNITS**

$f'_c = 5,000$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
**NORTH FRONTAGE ROAD**  
**OVER TRIBUTARY OF SUGAR CREEK**  
**F.A.I. RTE. 70 SEC. 60-(13,14,15)RS-3**  
**MADISON COUNTY**  
**STATION 197+50**  
**STRUCTURE NO. 060-2588**

**WATERWAY INFORMATION**

Existing Low Grade Elevation: 514.2 @ Sta. 201+00

Drainage Area = 1.14 sq. mi. Prop. Low Grade Elevation: 514.2 @ Sta. 201+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	441	115	144	512.7	0.3	0.3	513.0	513.0
Base	50	723	119	144	514.9	1.3	1.2	516.2	516.0
OVT(E)	100	852	119	144	515.6	2.0	2.0	517.6	517.6
OVT(P)	18	540	119	-	513.6	0.8	-	514.4	-
Max. Calc.	20	557	-	144	513.7	-	0.6	-	514.4
	200	911	119	144	515.7	2.2	2.4	518.0	518.1

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION**  
**STRUCTURE NO. 060-2588**

SHEET NO. 1 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	192
	STA. 197+50		CONTRACT NO. 76F94	

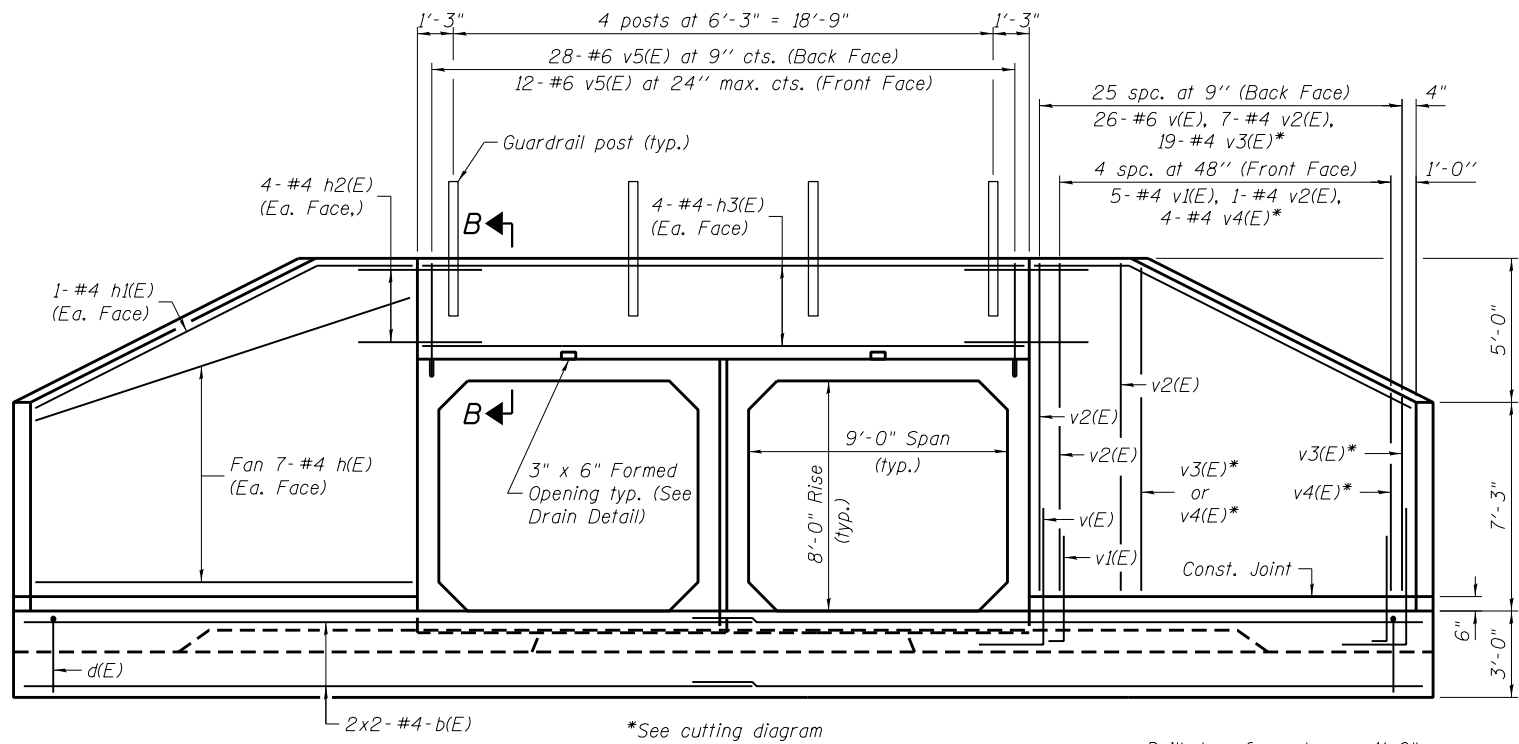
ILLINOIS FED. AID PROJECT

SAVE DATE: 5/6/2016 8:15:55 AM FILE: 8FILES

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DRAWN - P. Ray REVISIONS -  
CHECKED - DCD REVISIONS -  
PLOT SCALE =  
PLOT DATE = 5/6/2016

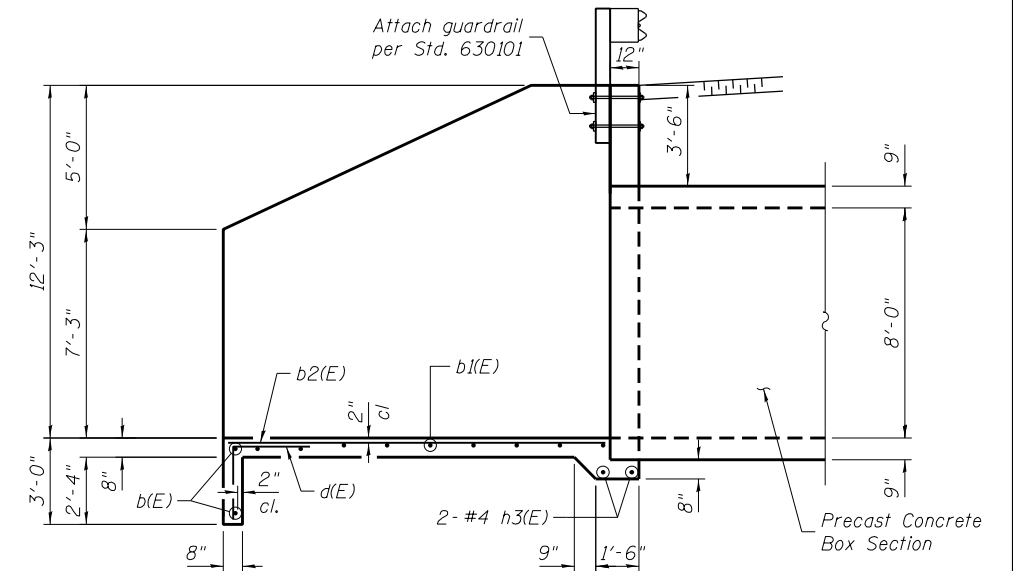


MADISON/BOND

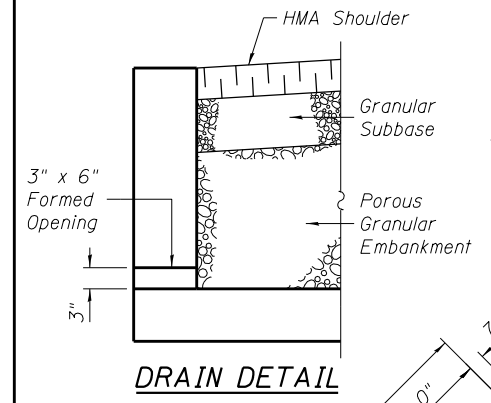


**END ELEVATION**

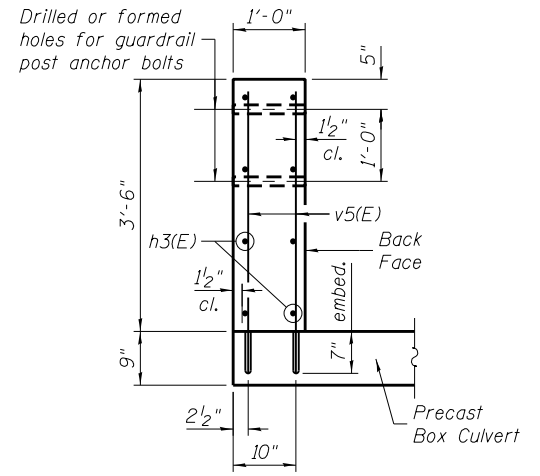
**MINIMUM BAR LAP**  
#4 bar = 2'-1"



**SECTION A-A**

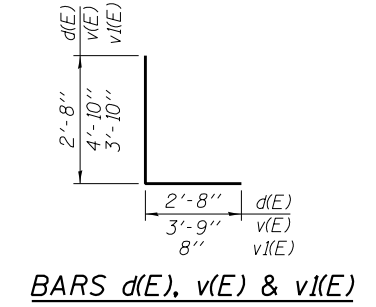


**DRAIN DETAIL**

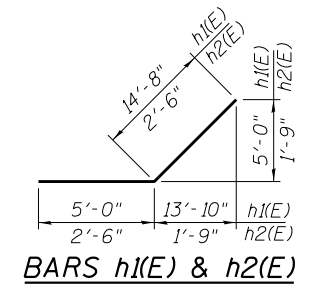


**SECTION B-B**

Note: Set v5(E) bars into drilled holes using approved adhesive, according to Article 509.06 of the Standard Specifications.



**BARS d(E), v(E) & v1(E)**



**BARS h1(E) & h2(E)**

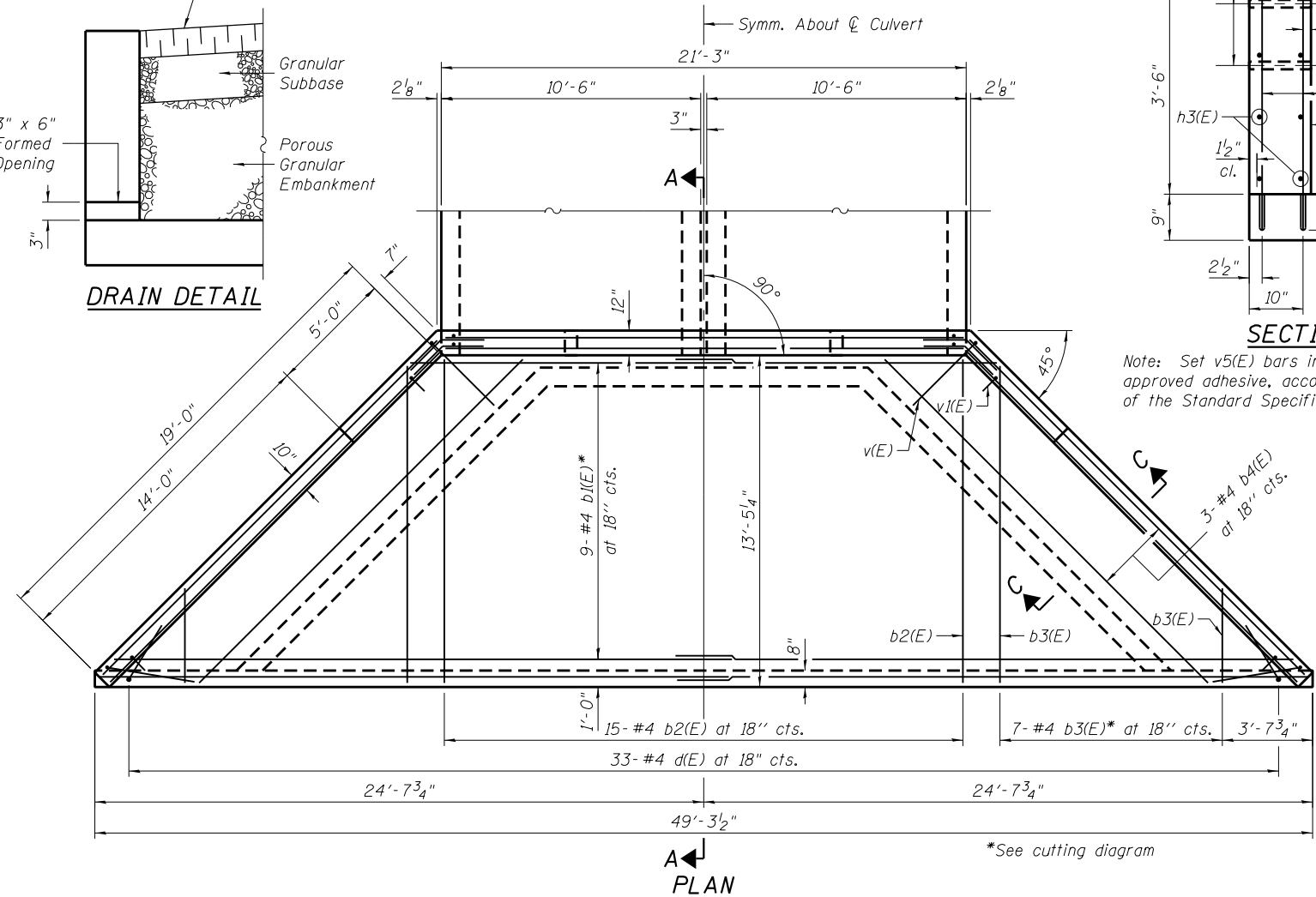
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
b(E)	4	#4	25'-7"	—
b1(E)	9	#4	38'-4"	—
b2(E)	15	#4	13'-1"	—
b3(E)	7	#4	16'-8"	—
b4(E)	6	#4	18'-6"	—
d(E)	33	#4	5'-4"	L
h(E)	28	#4	18'-8"	—
h1(E)	4	#4	19'-8"	✓
h2(E)	16	#4	5'-0"	✓
h3(E)	10	#4	21'-3"	—
v(E)	52	#6	8'-7"	L
v1(E)	10	#4	4'-6"	L
v2(E)	16	#4	11'-11"	—
v3(E)	19	#4	17'-10"	—
v4(E)	4	#4	17'-9"	—
v5(E)	40	#6	3'-11"	—

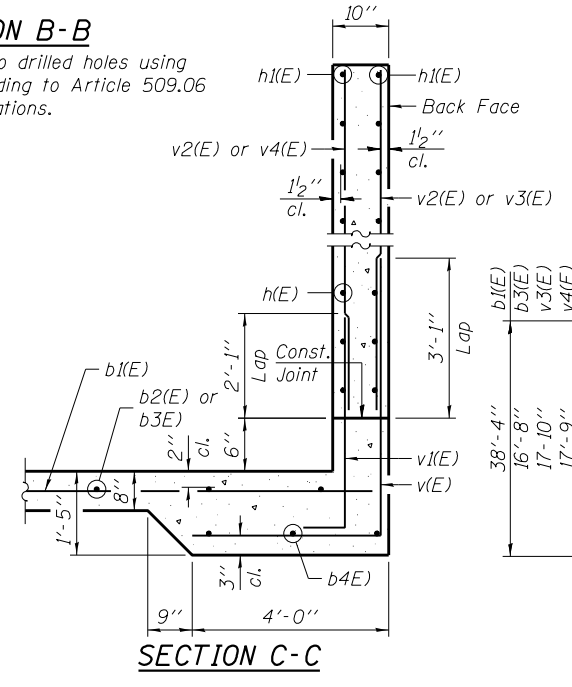
  

Concrete (Class SI)	Cu. Yd.	35.6
Reinforcement Bars, Epoxy Coated	Pound	2630

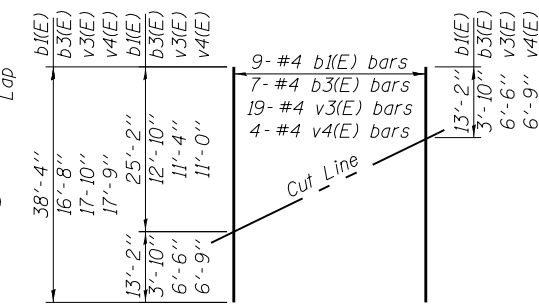
Notes:  
Bill of Material for one (1) End Section only. Two (2) are required.



**PLAN**



**SECTION C-C**



**FIELD CUTTING DIAGRAM**

Order bars full length. Cut as shown and use remainder of bars in opposite wing, or opposite side.

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LAST SAVED DATE: 8/15/2016 10:58:58 AM

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	PLOT SCALE =	DRAWN - P. Ray	REVISED -
	PLOT DATE = 5/6/2016	CHECKED - DCD	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT END SECTION**  
**STRUCTURE NO. 060-2588**

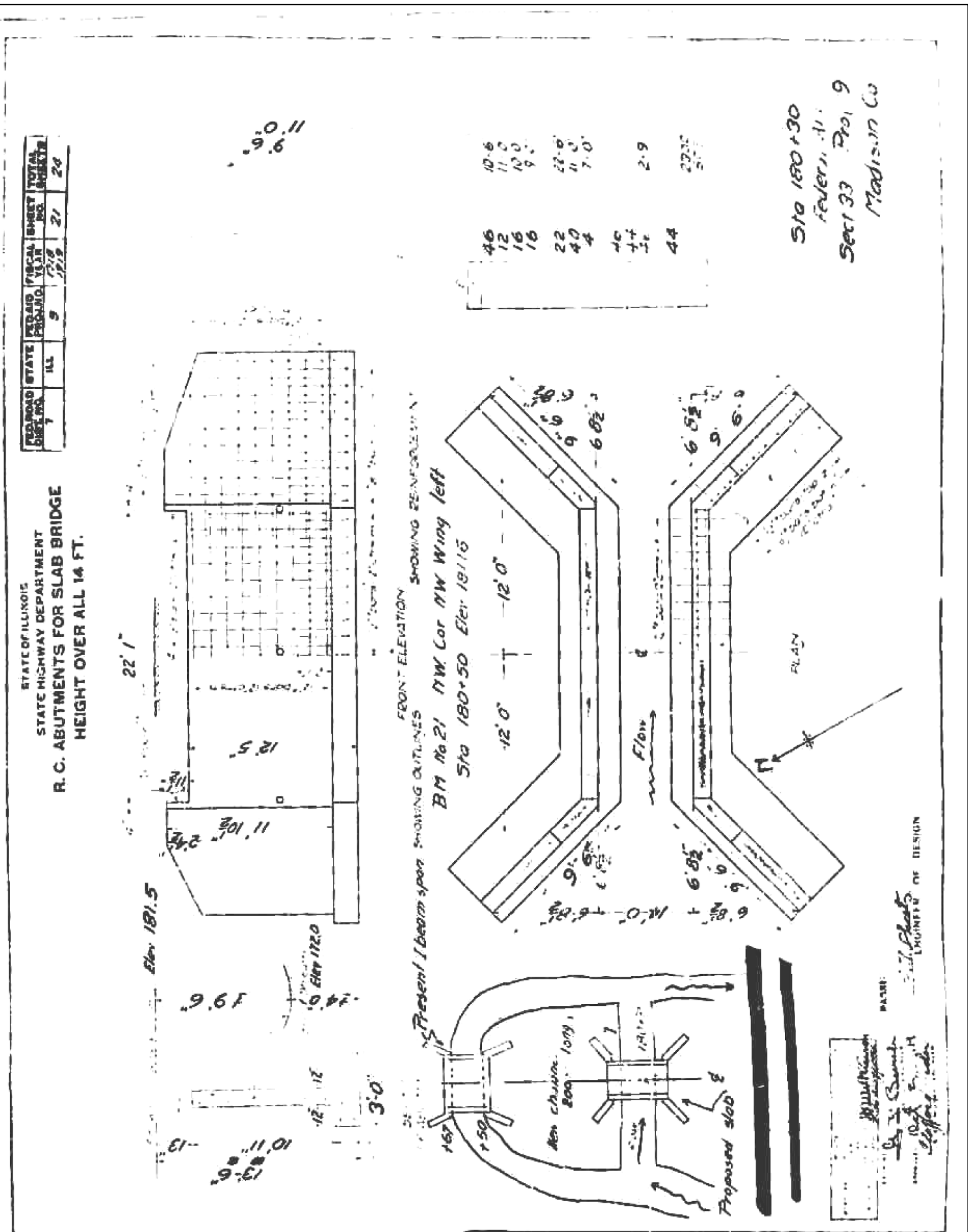
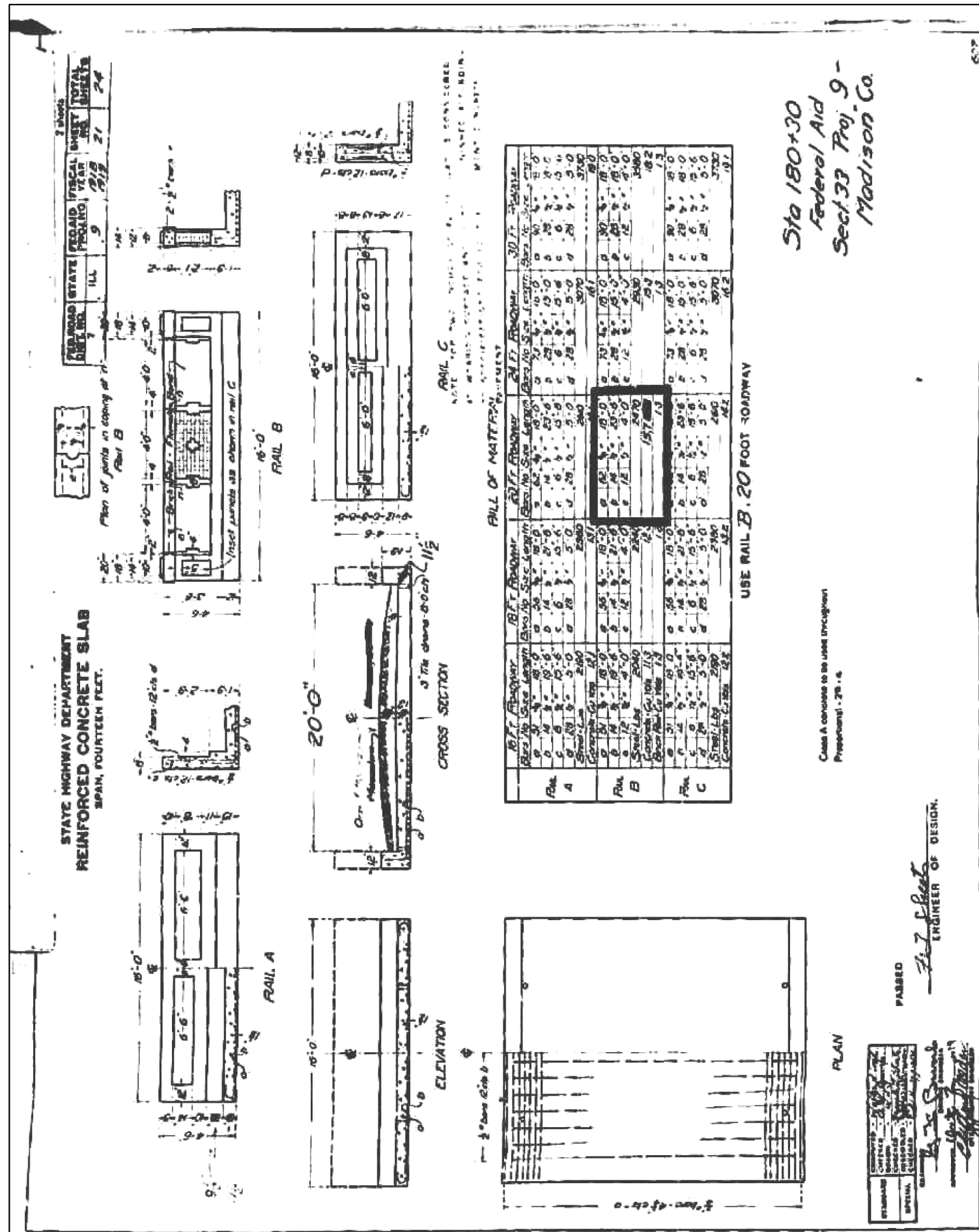
SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	193
	STA. 197+50		CONTRACT NO. 76F94	

ILLINOIS FED. AID PROJECT

MADISON/BOND





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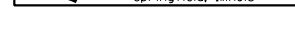
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ENGINEER OF DESIGN

EXISTING STRUCTURE PLANS (SN 060-0404)  
(FOR INFORMATION ONLY)

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	195
CONTRACT NO. 76F94				

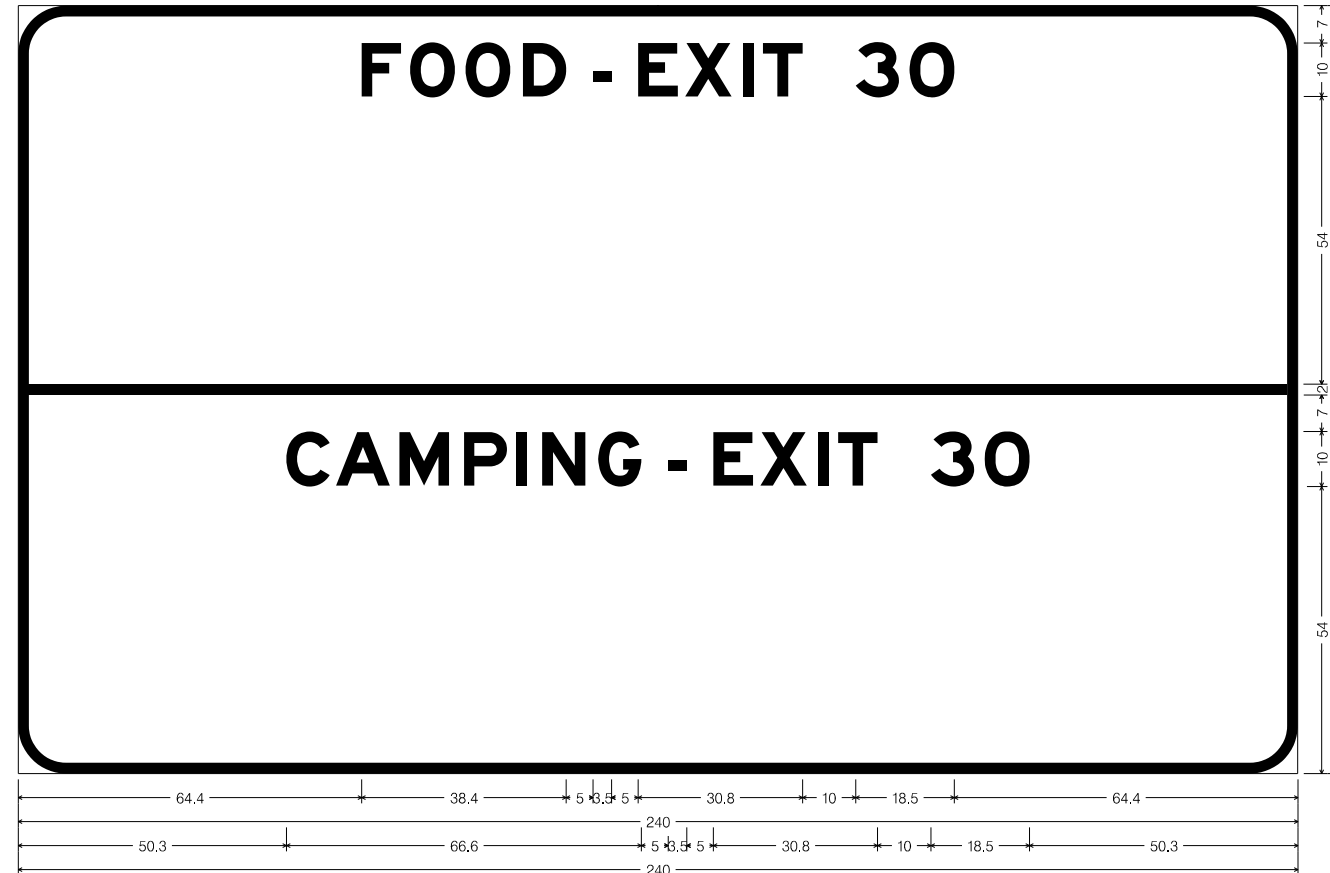


EB I-70  
STA 1593+57 RT



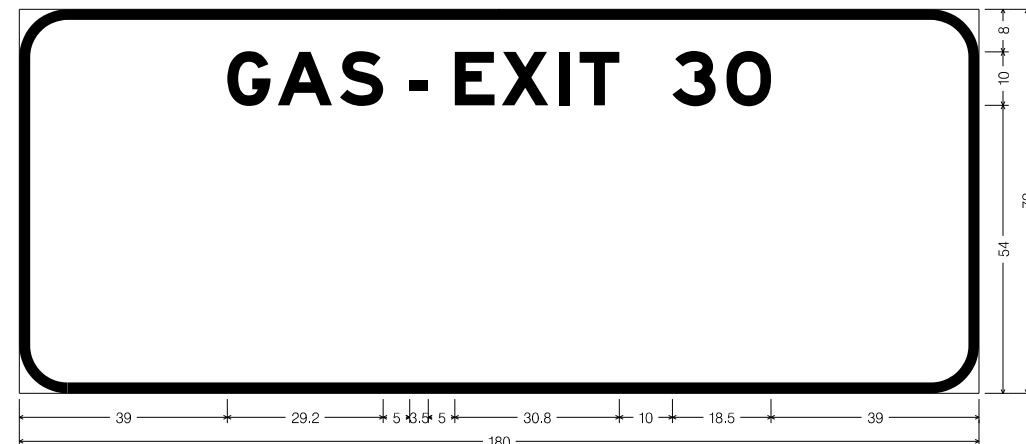
9.75" Radius, 2" Border, White on Blue;  
[REST AREA] E 2K; [TOURIST] E 2K 200% spacing; [INFORMATION] E 2K 200% spacing;  
Arrow Type A - 24.25" 45

EB I-70  
STA 1730+04 RT



9" Radius, 2" Border, White on Blue;  
[FOOD - EXIT 30] EM 2K;  
[CAMPING - EXIT 30] EM 2K;

EB I-70  
STA 1738+94 RT



9" Radius, 2" Border, White on Blue;  
[GAS - EXIT 30] EM 2K;

EB I-70  
STA 1749+95 RT



12" Radius, 2" Border, White on Green;  
[EXIT 30] E 2K; [Pierron] Clearview 5-W;  
[1/2 MILE] E 2K;

FILE NAME =  
\$FILE\$

USER NAME = \$USERNAME\$	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 3.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 5/6/2016	DATE - 8/2015	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

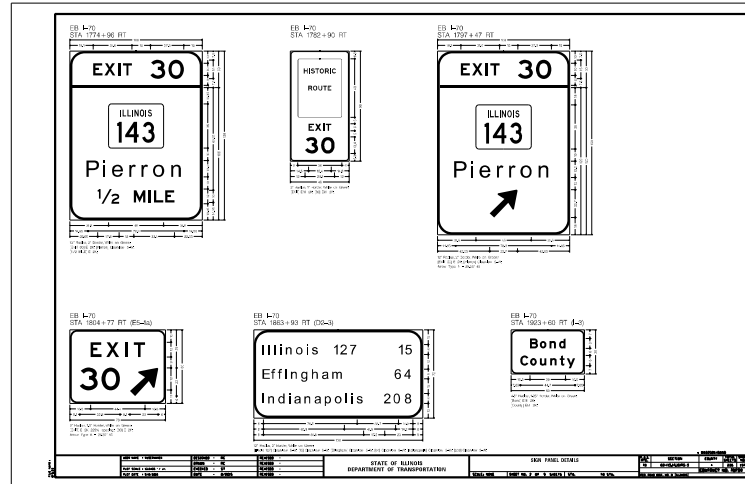
SIGN PANEL DETAILS

SCALE: NONE SHEET NO. 1 OF 9 SHEETS STA. TO STA.

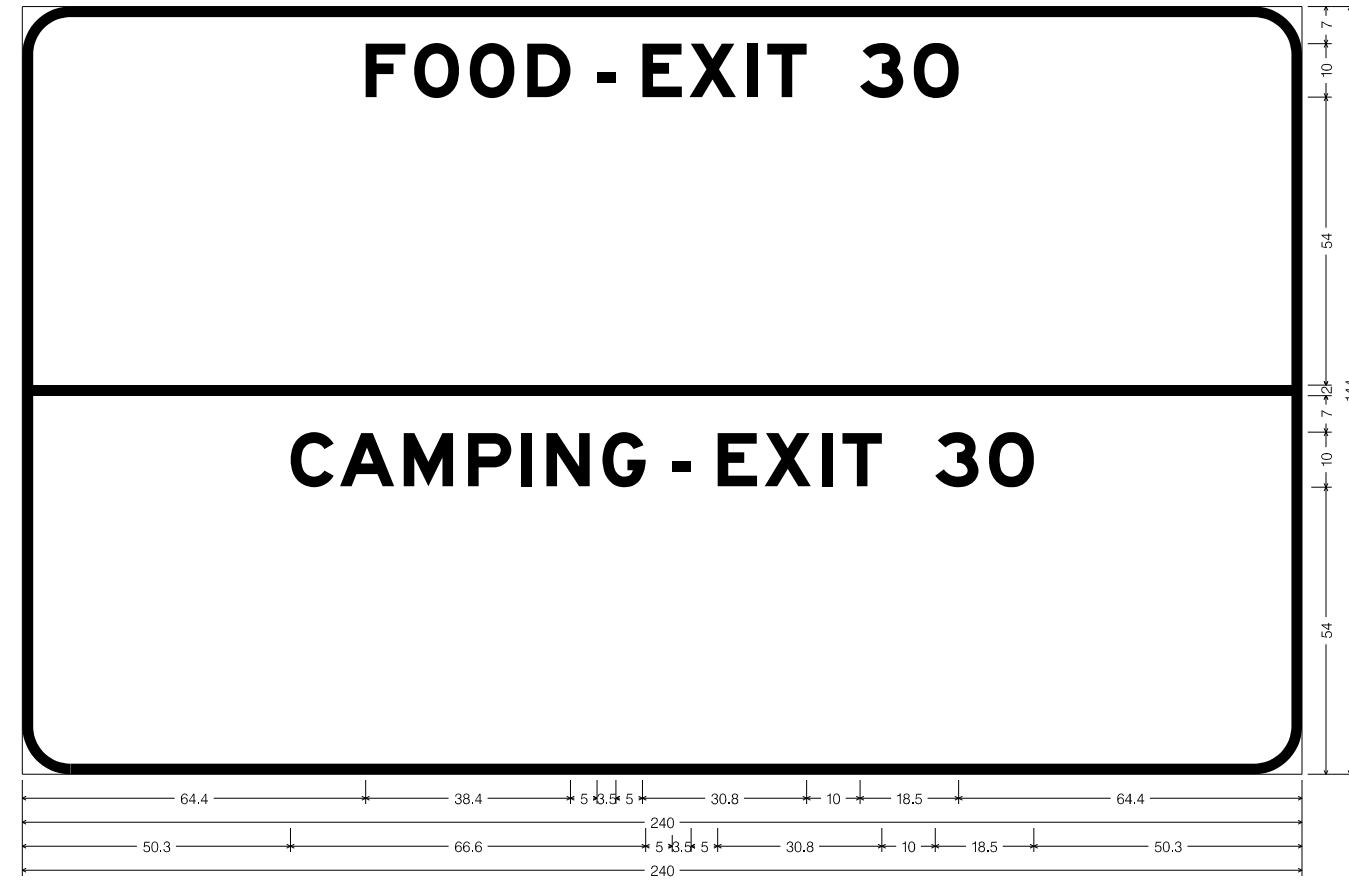
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	*	226	196
FED. ROAD DIST. NO. 8 ILLINOIS			CONTRACT NO. 76F94	

\* MADISON/BOND



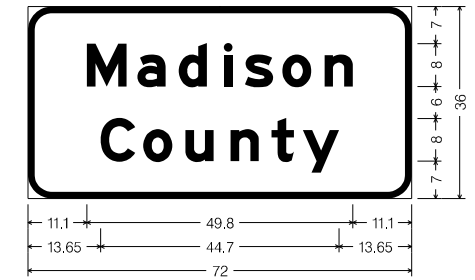


WB I-70  
 STA 1939+50 LT



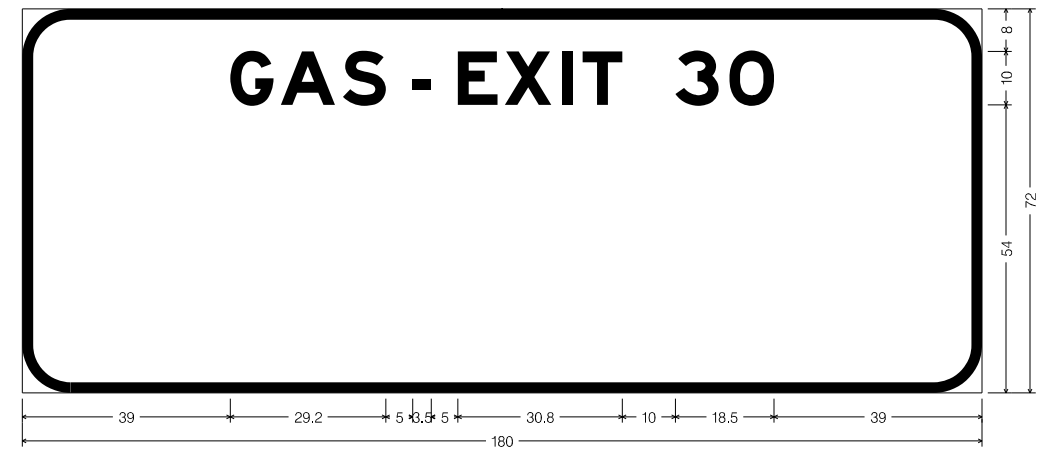
9" Radius, 2" Border, White on Blue;  
 [FOOD - EXIT 30] EM 2K;  
 [CAMPING - EXIT 30] EM 2K;

WB I-70  
 STA 1926+78 LT (I-3)



4.5" Radius, 1.25" Border, White on Green;  
 [Madison] EM 2K;  
 [County] EM 2K;

WB I-70  
 STA 1917+07 LT



9" Radius, 2" Border, White on Blue;  
 [GAS - EXIT 30] EM 2K;

WB I-70  
 STA 1908+90 LT



12" Radius, 2" Border, White on Green;  
 [Highland] Clearview-5-W;  
 [NEXT] EM 2K; [2] EM 2K; [EXITS] EM 2K;

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USER NAME = \$USERNAME\$	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 3.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 5/6/2016	DATE - 8/2015	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	*	226	198
FED. ROAD DIST. NO. 8 ILLINOIS			CONTRACT NO. 76F94	

MADISON/BOND

WB I-70  
STA 1886+99 LT



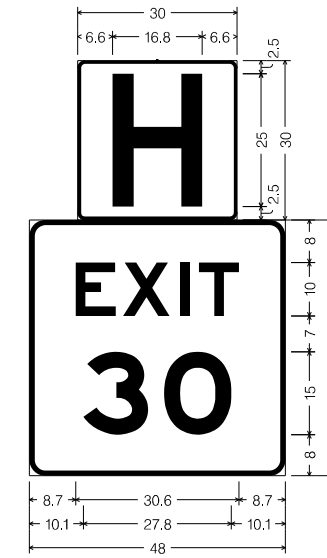
12" Radius, 2" Border, White on Green;  
[EXIT 30] E 2K; [Pierron] Clearview 5-W;  
[Highland] Clearview 5-W; [1 MILE] E 2K;

WB I-70  
STA 1861+62 LT



12" Radius, 2" Border, White on Green;  
[EXIT 30] E 2K; [Pierron] Clearview 5-W;  
[Highland] Clearview 5-W; [1 MILE] E 2K;

WB I-70  
STA 1859+53 LT (D9-2)



1.875" Radius, 0.75" Border, White on Blue;  
[H] EM 2K;  
3" Radius, 1" Border, White on Blue;  
[EXIT] E 2K; [30] EM 2K;

FILE NAME =  
\$FILE\$

USER NAME = \$USERNAME\$	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 3.0000' / 1" =	CHECKED - ST	REVISED -
PLOT DATE = 5/6/2016	DATE - 8/2015	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE SHEET NO. 4 OF 9 SHEETS STA. TO STA.

MADISON/BOND

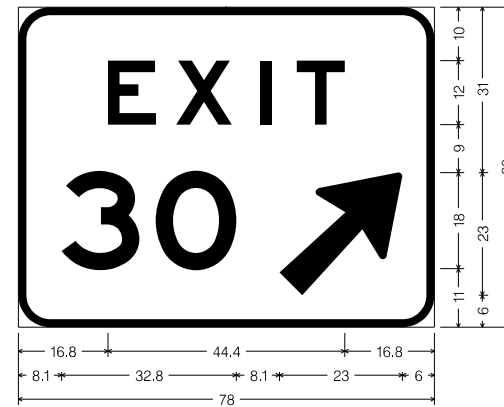
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3	*	226	199
FED. ROAD DIST. NO. 8 ILLINOIS			CONTRACT NO. 76F94	

WB I-70  
STA 1834+91 LT



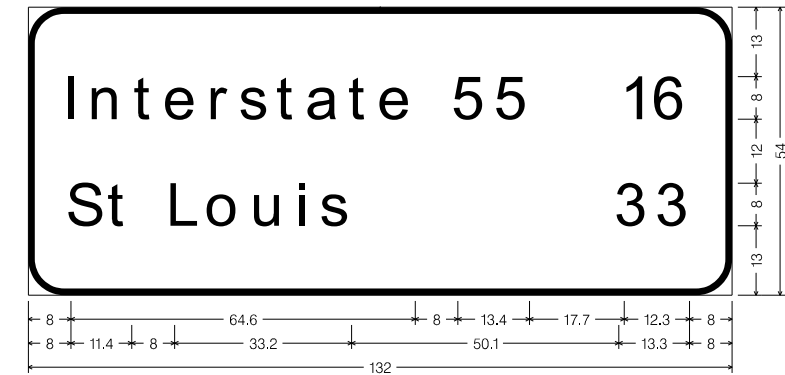
12" Radius, 2" Border, White on Green;  
[EXIT 30] E 2K; [Pierron] Clearview 5-W;  
[Highland] Clearview 5-W; Arrow Type A - 35.625" 45

WB I-70  
STA 1825+64 LT (E5-1a)



6" Radius, 1.5" Border, White on Green;  
[EXIT] E 2K; [30] E 2K;  
Arrow Type A - 29.25" 45

WB I-70  
STA 1762+71 LT (D2-2)



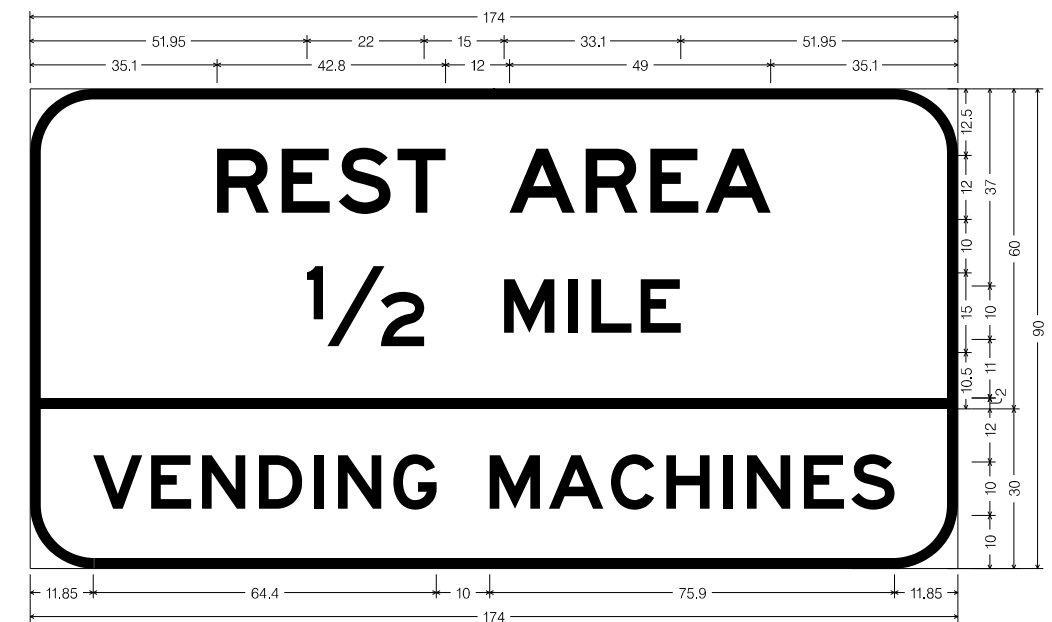
6.75" Radius, 1.25" Border, White on Green;  
[Interstate 55] Clearview 5-W; [16] Clearview 5-W; [St Louis] Clearview 5-W; [33] Clearview 5-W;

WB I-70  
STA 1716+00 LT (D5-1)



9" Radius, 2" Border, White on Blue;  
[REST AREA] E 2K; [1 MILE] E 2K;  
Symbol RM080

WB I-70  
STA 1684+00 LT (D5-1)



12" Radius, 2" Border, White on Blue;  
[REST AREA] E 2K; [1/2 MILE] E 2K;  
[VENDING MACHINES] E 2K;

WB I-70  
STA 1627+80 LT (I-3)



6" Radius, 1.25" Border, White on Green;  
[Highland] EM 2K;  
[Silver] EM 2K;  
[Lake] EM 2K;

FILE NAME = \$FILE\$

USER NAME = \$USERNAME\$	DESIGNED - RC	REVISED -
	DRAWN - RC	REVISED -
PLOT SCALE = 3.0000' / in.	CHECKED - ST	REVISED -
PLOT DATE = 5/6/2016	DATE - 8/2015	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE SHEET NO. 5 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-(13,14,15)RS-3		226	200
FED. ROAD DIST. NO. 8 ILLINOIS			CONTRACT NO. 76F94	

MADISON/BOND