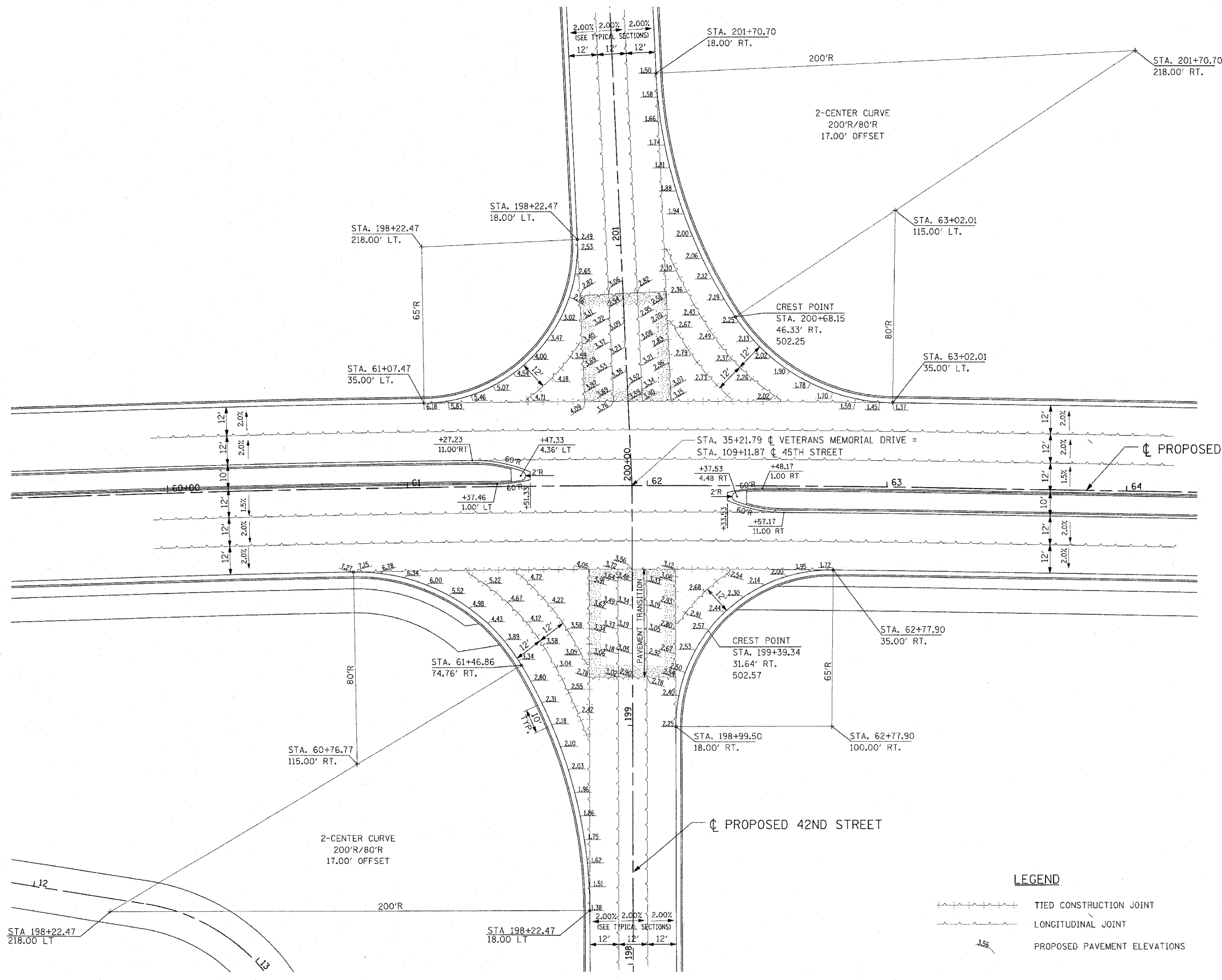
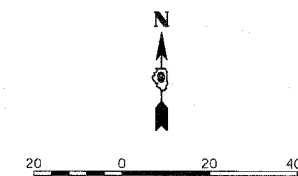


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	201
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				



NOTES:

- ADD 490' TO ALL PROPOSED PAVEMENT ELEVATIONS.
- LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 24 INCH CENTERS. LONGITUDINAL SAWED JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 30 INCH CENTERS. SEE IDOT STANDARD 420001 FOR PAVEMENT JOINT DETAILS.
- DOWELS AND TIE BARS SHALL BE CONSIDERED INCIDENTAL TO P.C.C. PAVEMENT.
- TRANSVERSE CONTRACTION JOINTS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 420106.



LEGEND

- TIED CONSTRUCTION JOINT
- LONGITUDINAL JOINT
- PROPOSED PAVEMENT ELEVATIONS

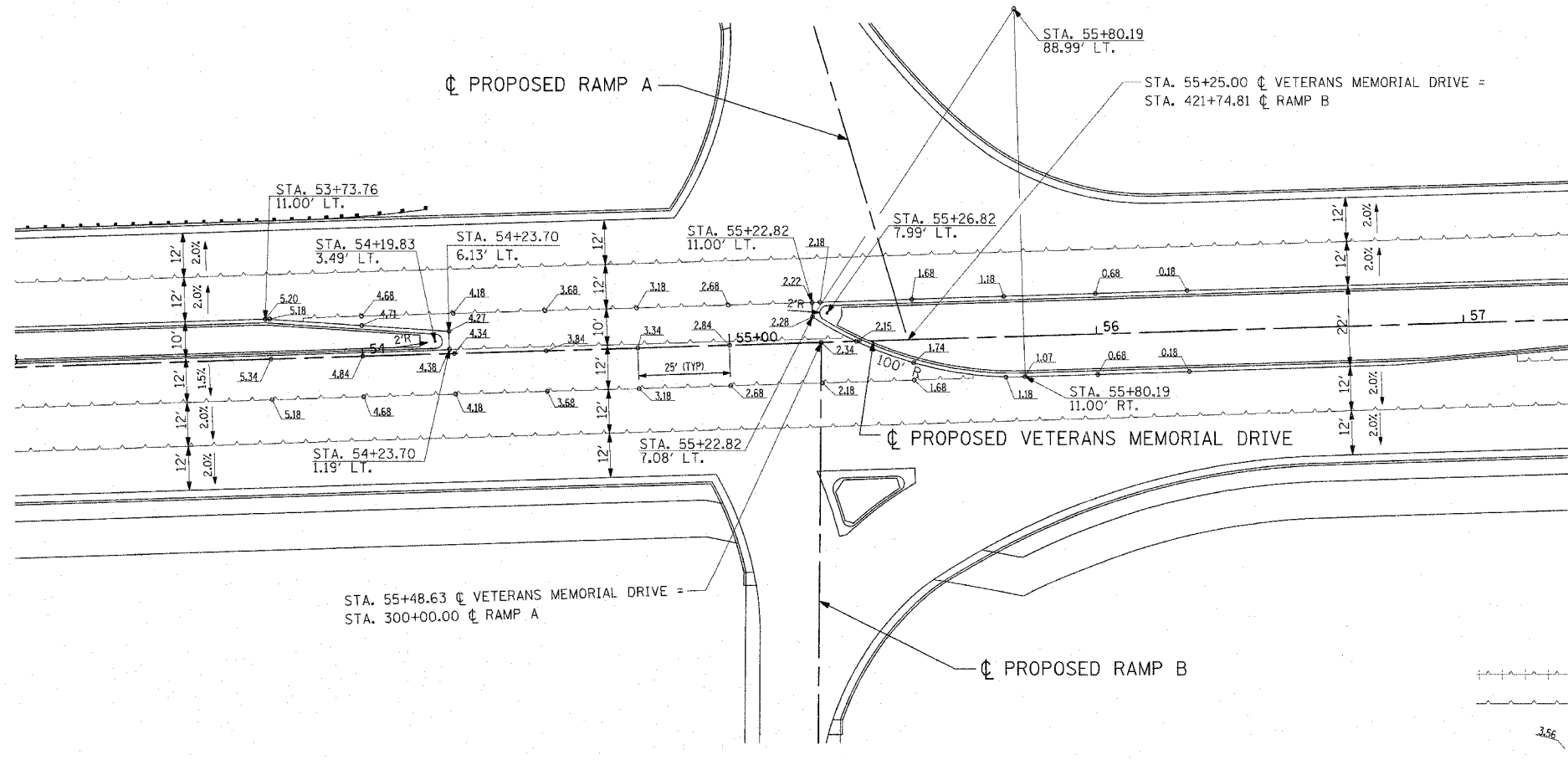
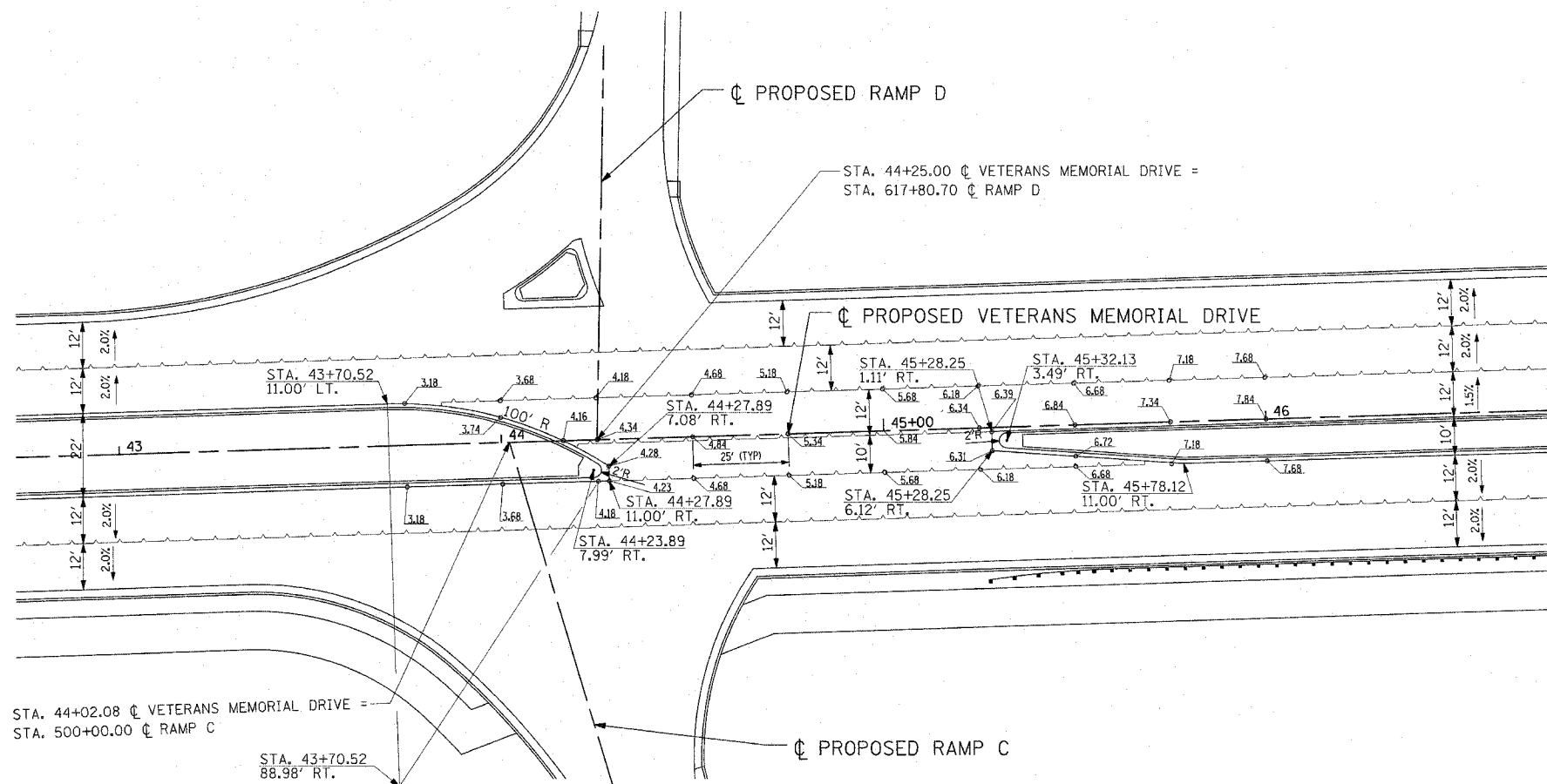
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERSECTION DETAILS
VETERANS & 42ND STREET
VETERANS MEMORIAL DRIVE
INTERCHANGE
SECTION (41-3)HBK
 SCALE: 1"=20'
 DATE 3-22-07
 DRAWN BY RL
 CHECKED BY MTM

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 LAYOUT RL 02/26/04
 DRAWN JED 04/12/04
 REVIEWED MTM 02/22/07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	202
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				



NOTES:

ADD 520' TO ALL PROPOSED PAVEMENT ELEVATIONS.

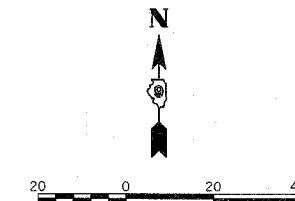
LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 24 INCH CENTERS. LONGITUDINAL SAWED JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 30 INCH CENTERS. SEE IDOT STANDARD 420001 FOR PAVEMENT JOINT DETAILS.

DOWELS AND TIE BARS SHALL BE CONSIDERED INCIDENTAL TO P.C.C. PAVEMENT.

TRANSVERSE CONTRACTION JOINTS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 420106.

LEGEND

- TIED CONSTRUCTION JOINT
- LONGITUDINAL JOINT
- PROPOSED PAVEMENT ELEVATIONS



NOTES:

ADD 520' TO ALL PROPOSED PAVEMENT ELEVATIONS.

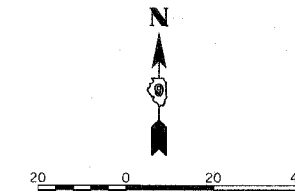
LONGITUDINAL CONSTRUCTION JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 24 INCH CENTERS. LONGITUDINAL SAWED JOINTS SHALL CONSIST OF NO. 6 EPOXY COATED TIE BARS AT 30 INCH CENTERS. SEE IDOT STANDARD 420001 FOR PAVEMENT JOINT DETAILS.

DOWELS AND TIE BARS SHALL BE CONSIDERED INCIDENTAL TO P.C.C. PAVEMENT.

TRANSVERSE CONTRACTION JOINTS TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 420106.

LEGEND

- TIED CONSTRUCTION JOINT
- LONGITUDINAL JOINT
- PROPOSED PAVEMENT ELEVATIONS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERSECTION DETAILS
VETERANS & RAMPS A, B, C, AND D

VETERANS MEMORIAL DRIVE INTERCHANGE
SECTION (41-3)HBK

SCALE: 1/4"=20'
 DATE 3-22-07
 DRAWN BY RLT
 CHECKED BY MTM

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DRAWN	SEO	04/12/04
REVIEWED	MTM	03/22/07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	203
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				

NOTE A

PAVEMENT WIDTH TRANSITION
LEFT LANE LINE TRANSITIONS FROM
7.50' LT. STA. 195+81.70 TO
6.00' LT. STA. 197+84.73

PAVEMENT WIDTH TRANSITION
RIGHT LANE LINE TRANSITIONS FROM
7.50' RT. STA. 195+85.66 TO
6.00' RT. STA. 197+87.18

NOTES:

ADD 490' TO ALL PROPOSED PAVEMENT ELEVATIONS.

LEGEND

PROPOSED PAVEMENT ELEVATIONS

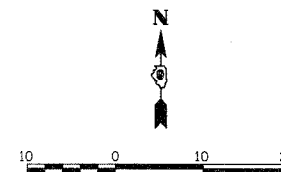
NOTE B

LEFT LANE LINE CROSS SLOPE
TRANSITIONS FROM :
-2.00% STA. 195+36.44 TO
+2.00% STA. 196+36.44

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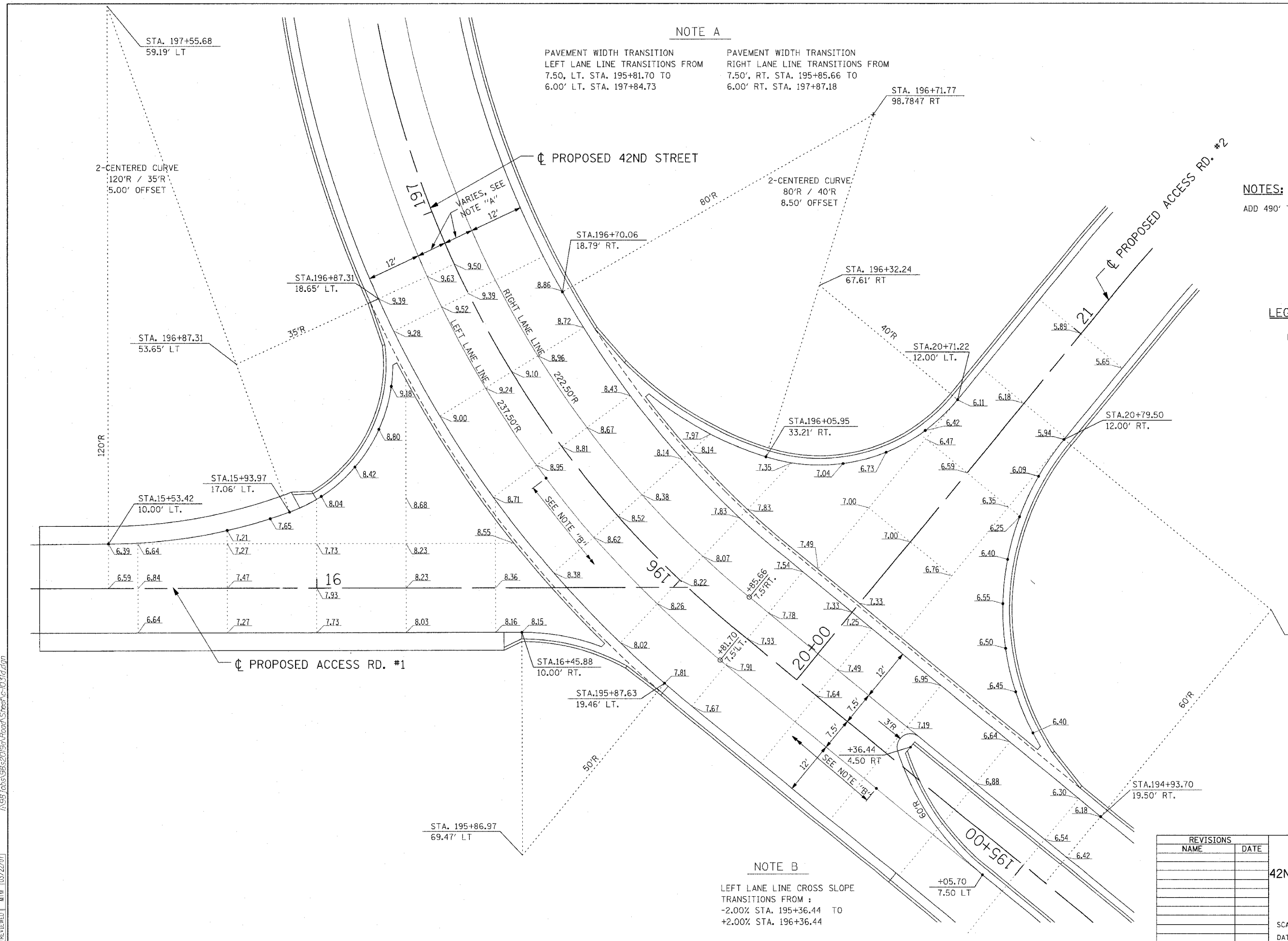
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DRAWN	JED	04/12/04
REVIEWED	MTM	03/22/07

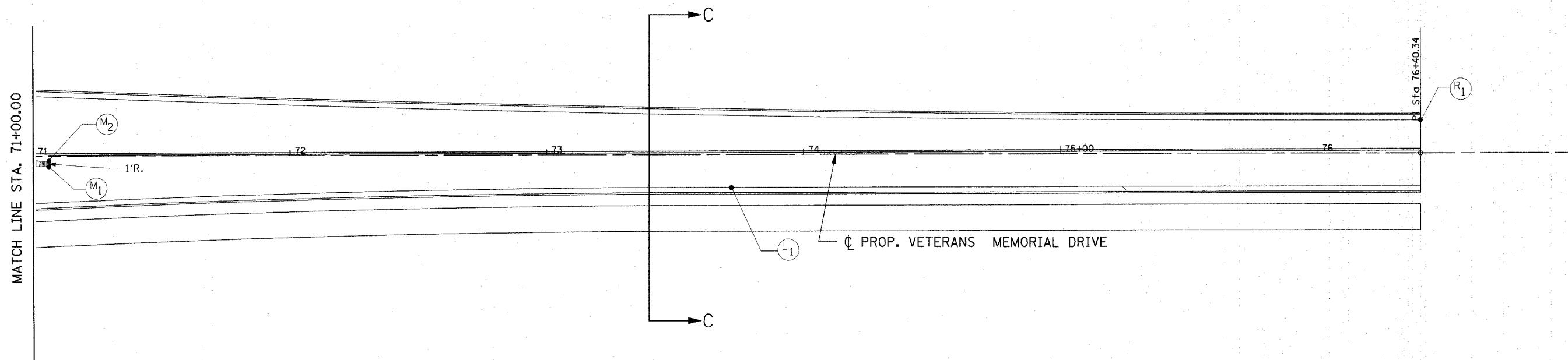


REVISIONS	
NAME	DATE

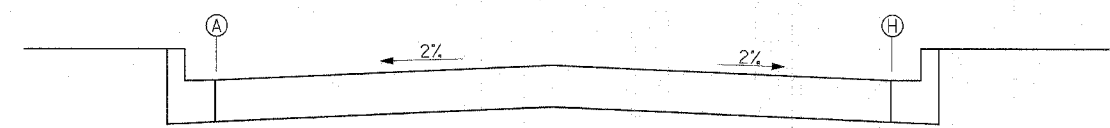
ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERSECTION DETAILS
42ND STREET & ACCESS ROADS 1 & 2
VETERANS MEMORIAL DRIVE
INTERCHANGE
SECTION (41-3)HBK
SCALE: DRAWN BY RLT
DATE 3-22-07 CHECKED BY MTM



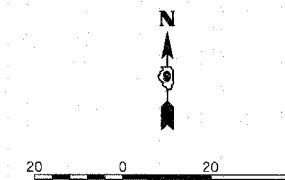
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	41-3HBK	JEFFERSON	518	215
STA. 71+00.00		TO STA. 76+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				



STATION	OFFSETS LEFT OF C								OFFSETS RIGHT OF C							
	LT. OEOP (A)		LT. IEOP (B)		ISLAND (C)		MEDIAN (D)		MEDIAN (E)		ISLAND (F)		RT. IEOP/ISLAND (G)		RT. OEOP (H)	
	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV	OFF	ELEV
M1 M2 71+06.18	23.22'	510.16	0.00'	510.62	-	-	-2.00'	510.66	4.00'	510.62	-	-	4.00'	510.62	18.28'	510.33
71+15.34	22.86'	510.31	0.00'	510.77	-	-	-	-	-	-	-	-	3.80'	510.77	17.90'	510.49
71+40.34	21.93'	510.75	0.00'	511.19	-	-	-	-	-	-	-	-	3.24'	511.19	16.93'	510.92
71+65.34	21.03'	511.18	0.00'	511.60	-	-	-	-	-	-	-	-	2.64'	511.60	16.07'	511.33
71+90.34	20.19'	511.62	0.00'	512.02	-	-	-	-	-	-	-	-	2.01'	512.02	15.31'	511.75
72+15.34	19.39'	512.05	0.00'	512.44	-	-	-	-	-	-	-	-	1.34'	512.44	14.66'	512.17
72+40.34	18.64'	512.49	0.00'	512.86	-	-	-	-	-	-	-	-	0.63'	512.86	14.12'	512.59
72+65.34	17.94'	512.91	0.00'	513.27	-	-	-	-	-	-	-	-	0.00'	513.27	13.68'	513.00
72+90.34	17.28'	513.34	0.00'	513.69	-	-	-	-	-	-	-	-	0.00'	513.69	13.35'	513.42
73+15.34	16.67'	513.78	0.00'	514.11	-	-	-	-	-	-	-	-	0.00'	514.11	13.12'	513.85
73+40.34	16.11'	514.20	0.00'	514.52	-	-	-	-	-	-	-	-	0.00'	514.52	13.00'	514.26
73+65.34	15.59'	514.63	0.00'	514.94	-	-	-	-	-	-	-	-	0.00'	514.94	12.99'	514.68
L1 73+71.97	15.46'	514.74	0.00'	515.05	-	-	-	-	-	-	-	-	0.00'	515.05	13.00	514.79
73+90.34	15.12'	515.06	0.00'	515.36	-	-	-	-	-	-	-	-	0.00'	515.36	13.00	515.10
74+15.34	14.70'	515.49	0.00'	515.78	-	-	-	-	-	-	-	-	0.00'	515.78	13.00'	515.52
74+40.34	14.33'	515.90	0.00'	516.19	-	-	-	-	-	-	-	-	0.00'	516.19	13.00'	515.93
74+65.34	14.00'	516.33	0.00'	516.61	-	-	-	-	-	-	-	-	0.00'	516.61	13.00'	516.35
74+90.34	13.71'	516.76	0.00'	517.03	-	-	-	-	-	-	-	-	0.00'	517.03	13.00'	516.77
75+15.34	13.48'	517.17	0.00'	517.44	-	-	-	-	-	-	-	-	0.00'	517.44	13.00'	517.18
75+40.34	13.29'	517.59	0.00'	517.86	-	-	-	-	-	-	-	-	0.00'	517.86	13.00'	517.60
75+65.34	13.15'	518.02	0.00'	518.28	-	-	-	-	-	-	-	-	0.00'	518.28	13.00'	518.02
75+90.34	13.00'	518.44	0.00'	518.70	-	-	-	-	-	-	-	-	0.00'	518.70	13.00'	518.44
76+15.34	13.00'	518.85	0.00'	519.11	-	-	-	-	-	-	-	-	0.00'	519.11	13.00'	518.85
R1 76+40.34	13.00'	519.27	0.00'	519.11	-	-	-	-	-	-	-	-	0.00'	519.53	13.00'	519.27



SECTION C-C



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CHANNELIZATION DETAIL
STA. 71+00.00 TO STA. 76+00.00
VETERANS MEMORIAL DRIVE
INTERCHANGE
SECTION (41-3)HBK
 SCALE: 1"=20'
 DATE 3-22-07
 DRAWN BY RL
 CHECKED BY MTM

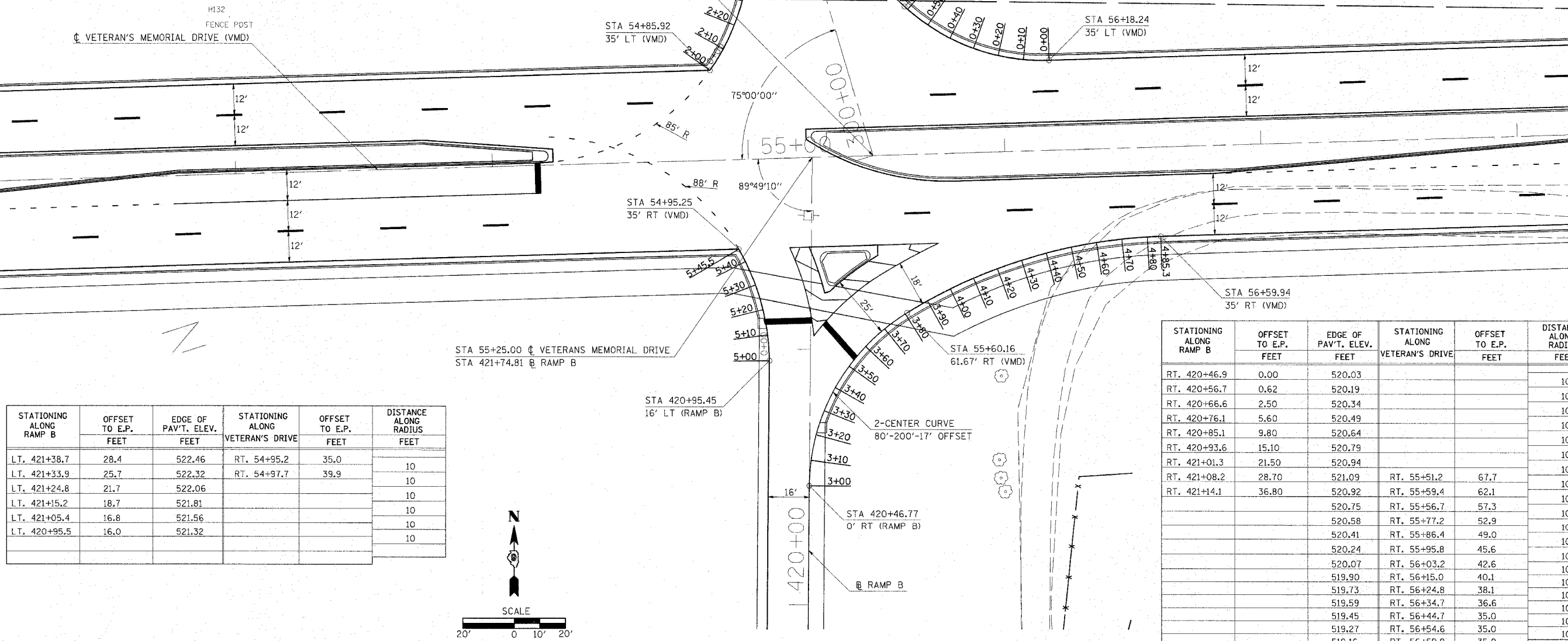
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LAYOUT	RLT	02/26/04
DRAWN	JED	09/12/04
REVIEWED	MTM	03/22/07

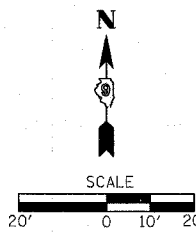
STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP A	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 56+18.2	35.0	522.64			10
LT. 56+08.3	43.3	522.33	LT. 300+56.7	44.0	10
LT. 55+98.4	52.3	522.03	LT. 300+64.1	37.4	10
		521.72	LT. 300+72.3	31.6	10
		521.42	LT. 300+81.1	26.9	10
		521.11	LT. 300+90.4	23.2	10
		520.81	LT. 301+00.1	20.7	10
		520.52	LT. 301+10.0	19.3	10
		520.50	LT. 301+10.9	19.0	10

STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP A	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 56+18.2	35.0	520.00			10
LT. 56+08.3	35.6	520.16			10
LT. 55+98.4	37.5	520.32			10
LT. 55+88.9	40.6	520.48			10
LT. 55+79.9	44.8	520.64			10
LT. 55+71.4	50.1	520.80	RT. 300+42.5	35.0	10
LT. 55+63.7	56.5	520.96	RT. 300+50.6	29.2	10
LT. 55+56.6	63.5	520.81	RT. 300+59.3	24.2	10
		520.66	RT. 300+69.7	18.9	10
		520.51	RT. 300+78.8	14.9	10
		520.36	RT. 300+88.2	11.4	10
		520.21	RT. 300+97.7	8.3	10
		520.06	RT. 301+07.3	5.7	10
		519.91	RT. 301+17.1	3.6	10
		519.76	RT. 301+26.9	1.9	10
		519.61	RT. 301+36.9	0.8	10
		519.44	RT. 301+46.9	0.2	10
		519.26	RT. 301+54.6	0	10



STATIONING ALONG RAMP B	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 421+38.7	28.4	522.46	RT. 54+95.2	35.0	10
LT. 421+33.9	25.7	522.32	RT. 54+97.7	39.9	10
LT. 421+24.8	21.7	522.06			10
LT. 421+15.2	18.7	521.81			10
LT. 421+05.4	16.8	521.56			10
LT. 420+95.5	16.0	521.32			10

STATIONING ALONG RAMP B	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 420+46.9	0.00	520.03			10
RT. 420+56.7	0.62	520.19			10
RT. 420+66.6	2.50	520.34			10
RT. 420+76.1	5.60	520.49			10
RT. 420+85.1	9.80	520.64			10
RT. 420+93.6	15.10	520.79			10
RT. 421+01.3	21.50	520.94			10
RT. 421+08.2	28.70	521.09	RT. 55+51.2	67.7	10
RT. 421+14.1	36.80	520.92	RT. 55+59.4	62.1	10
		520.75	RT. 55+56.7	57.3	10
		520.58	RT. 55+77.2	52.9	10
		520.41	RT. 55+86.4	49.0	10
		520.24	RT. 55+95.8	45.6	10
		520.07	RT. 56+03.2	42.6	10
		519.90	RT. 56+15.0	40.1	10
		519.73	RT. 56+24.8	38.1	10
		519.59	RT. 56+34.7	36.6	10
		519.45	RT. 56+44.7	35.0	10
		519.27	RT. 56+54.6	35.0	10
		519.16	RT. 56+59.9	35.0	10

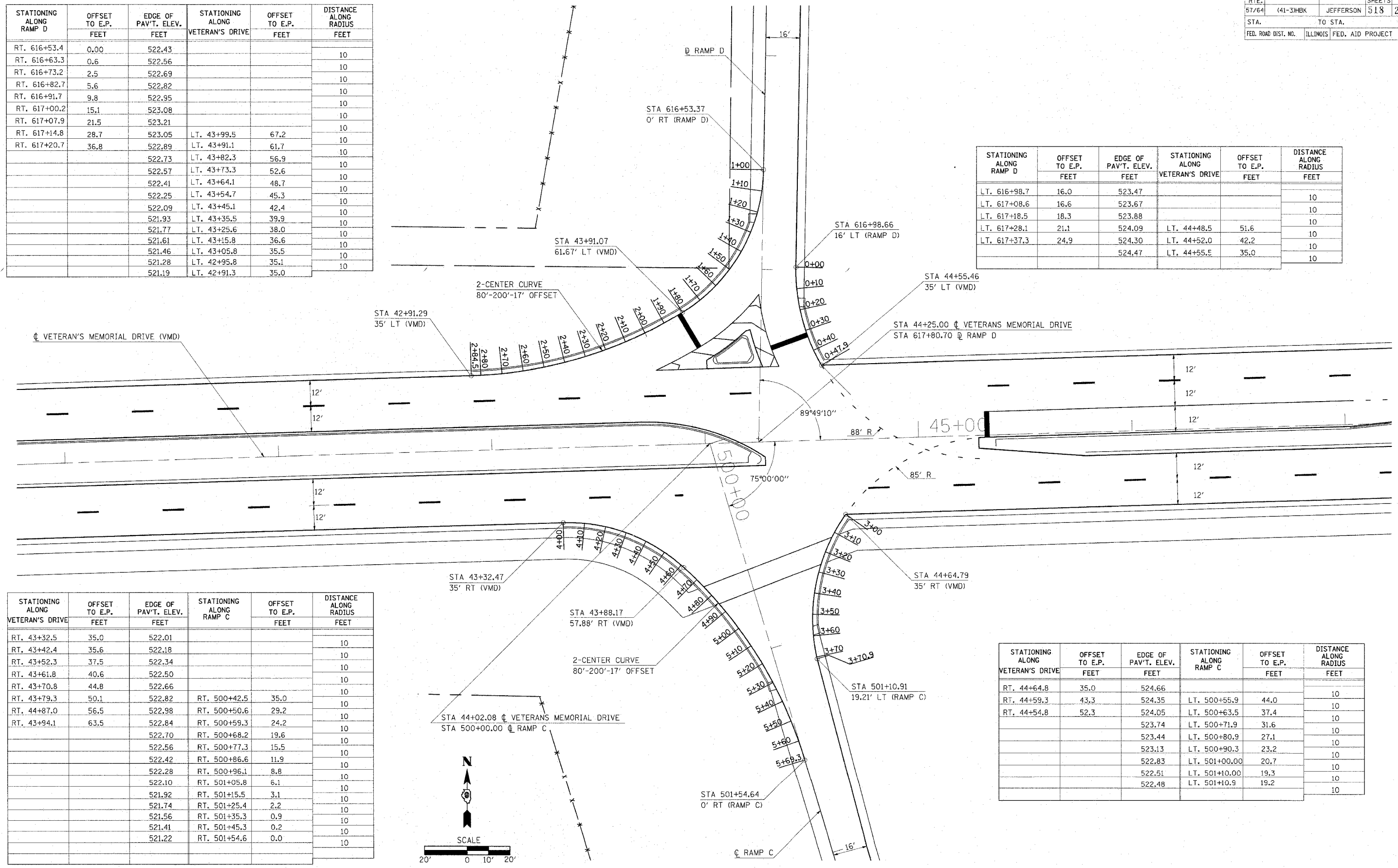


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	207
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATIONING ALONG RAMP D	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 616+53.4	0.00	522.43			10
RT. 616+63.3	0.6	522.56			10
RT. 616+73.2	2.5	522.69			10
RT. 616+82.7	5.6	522.82			10
RT. 616+91.7	9.8	522.95			10
RT. 617+00.2	15.1	523.08			10
RT. 617+07.9	21.5	523.21			10
RT. 617+14.8	28.7	523.05	LT. 43+99.5	67.2	10
RT. 617+20.7	36.8	522.89	LT. 43+91.1	61.7	10
		522.73	LT. 43+82.3	56.9	10
		522.57	LT. 43+73.3	52.6	10
		522.41	LT. 43+64.1	48.7	10
		522.25	LT. 43+54.7	45.3	10
		522.09	LT. 43+45.1	42.4	10
		521.93	LT. 43+35.5	39.9	10
		521.77	LT. 43+25.6	38.0	10
		521.61	LT. 43+15.8	36.6	10
		521.46	LT. 43+05.8	35.5	10
		521.28	LT. 42+95.8	35.1	10
		521.19	LT. 42+91.3	35.0	10

STATIONING ALONG RAMP D	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
LT. 616+98.7	16.0	523.47			10
LT. 617+08.6	16.6	523.67			10
LT. 617+18.5	18.3	523.88			10
LT. 617+28.1	21.1	524.09	LT. 44+48.5	51.6	10
LT. 617+37.3	24.9	524.30	LT. 44+52.0	42.2	10
		524.47	LT. 44+55.5	35.0	10

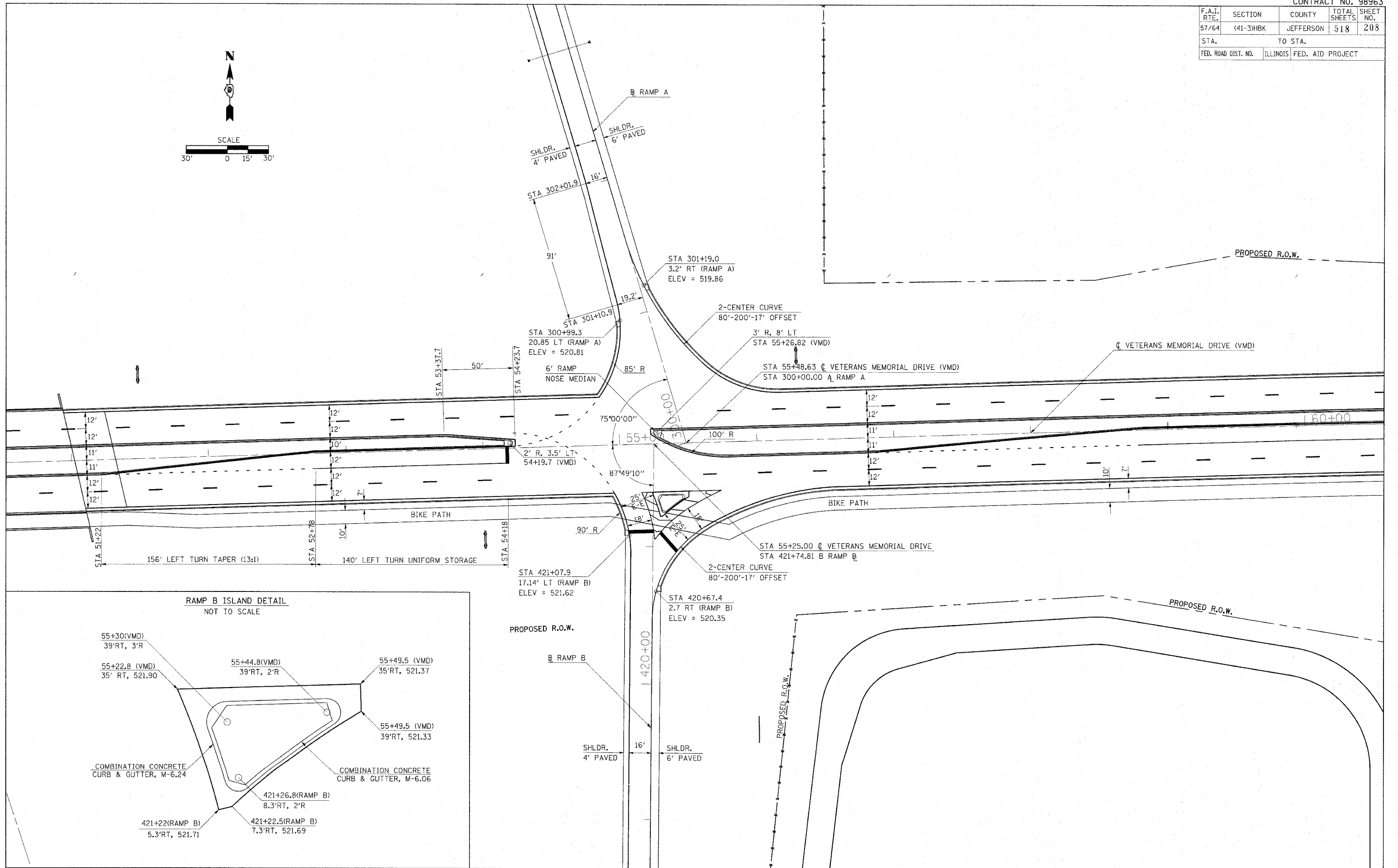
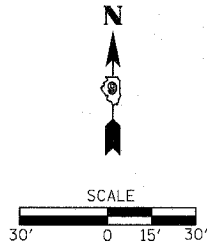


STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP C	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 43+32.5	35.0	522.01			10
RT. 43+42.4	35.6	522.18			10
RT. 43+52.3	37.5	522.34			10
RT. 43+61.8	40.6	522.50			10
RT. 43+70.8	44.8	522.66			10
RT. 43+79.3	50.1	522.82	RT. 500+42.5	35.0	10
RT. 44+87.0	56.5	522.98	RT. 500+50.6	29.2	10
RT. 43+94.1	63.5	522.84	RT. 500+59.3	24.2	10
		522.70	RT. 500+68.2	19.6	10
		522.56	RT. 500+77.3	15.5	10
		522.42	RT. 500+86.6	11.9	10
		522.28	RT. 500+96.1	8.8	10
		522.10	RT. 501+05.8	6.1	10
		521.92	RT. 501+15.5	3.1	10
		521.74	RT. 501+25.4	2.2	10
		521.56	RT. 501+35.3	0.9	10
		521.41	RT. 501+45.3	0.2	10
		521.22	RT. 501+54.6	0.0	10

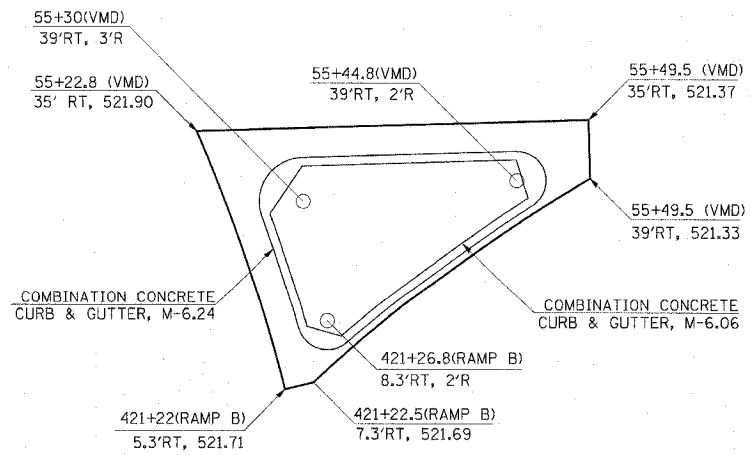
STATIONING ALONG VETERAN'S DRIVE	OFFSET TO E.P. FEET	EDGE OF PAV'T. ELEV. FEET	STATIONING ALONG RAMP C	OFFSET TO E.P. FEET	DISTANCE ALONG RADIUS FEET
RT. 44+64.8	35.0	524.66	LT. 500+55.9	44.0	10
RT. 44+59.3	43.3	524.35	LT. 500+63.5	37.4	10
RT. 44+54.8	52.3	524.05	LT. 500+71.9	31.6	10
		523.74	LT. 500+80.9	27.1	10
		523.44	LT. 500+90.3	23.2	10
		522.83	LT. 501+00.00	20.7	10
		522.51	LT. 501+10.00	19.3	10
		522.48	LT. 501+10.9	19.2	10

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	208
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



RAMP B ISLAND DETAIL NOT TO SCALE

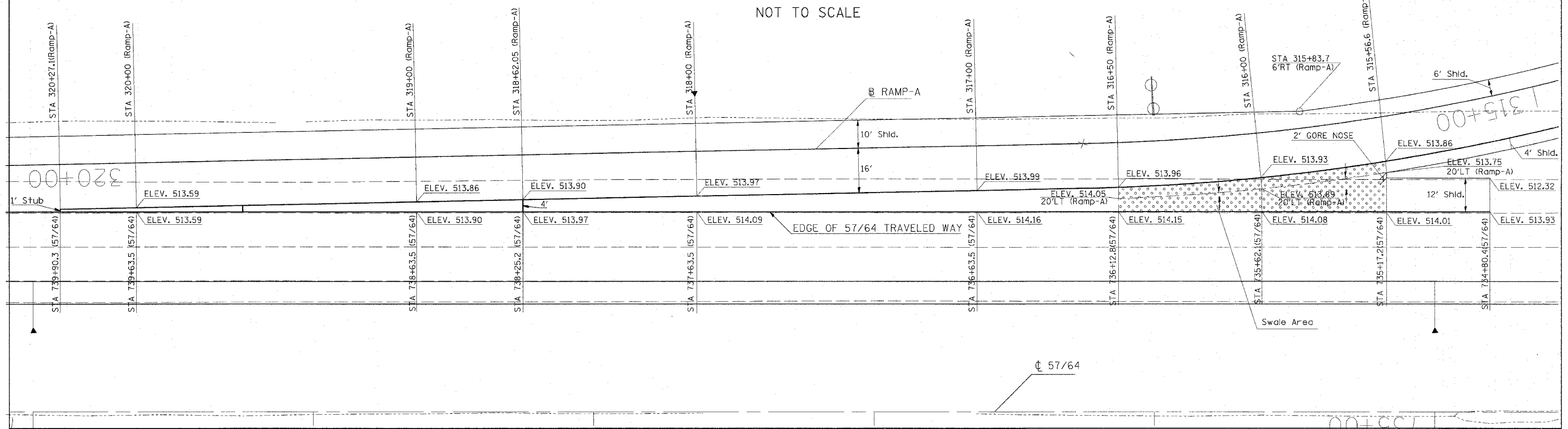


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CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

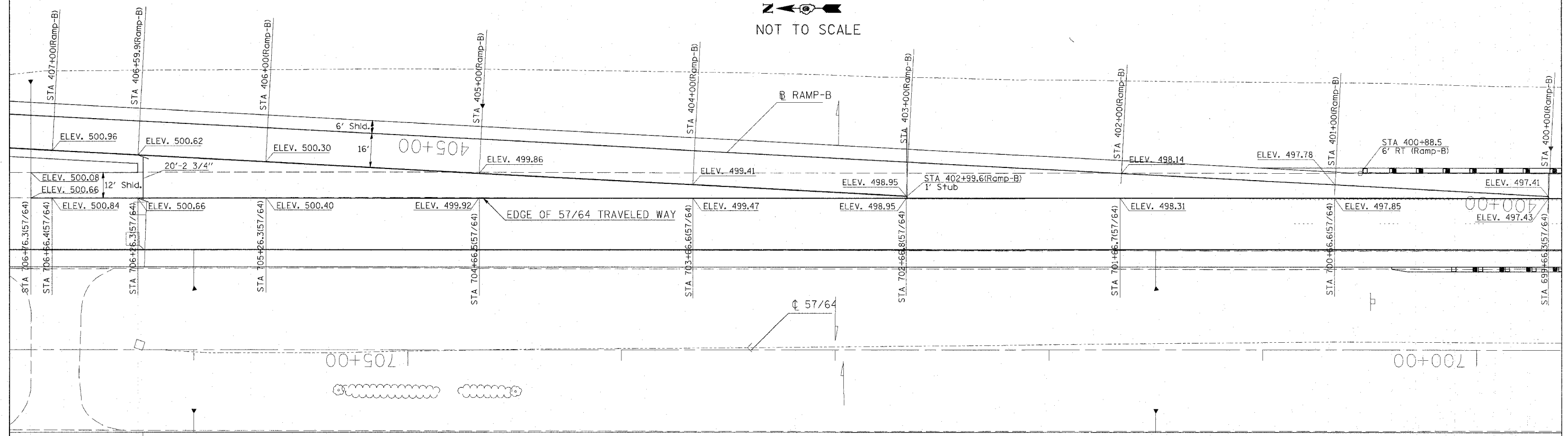
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RAMP B TERMINAL

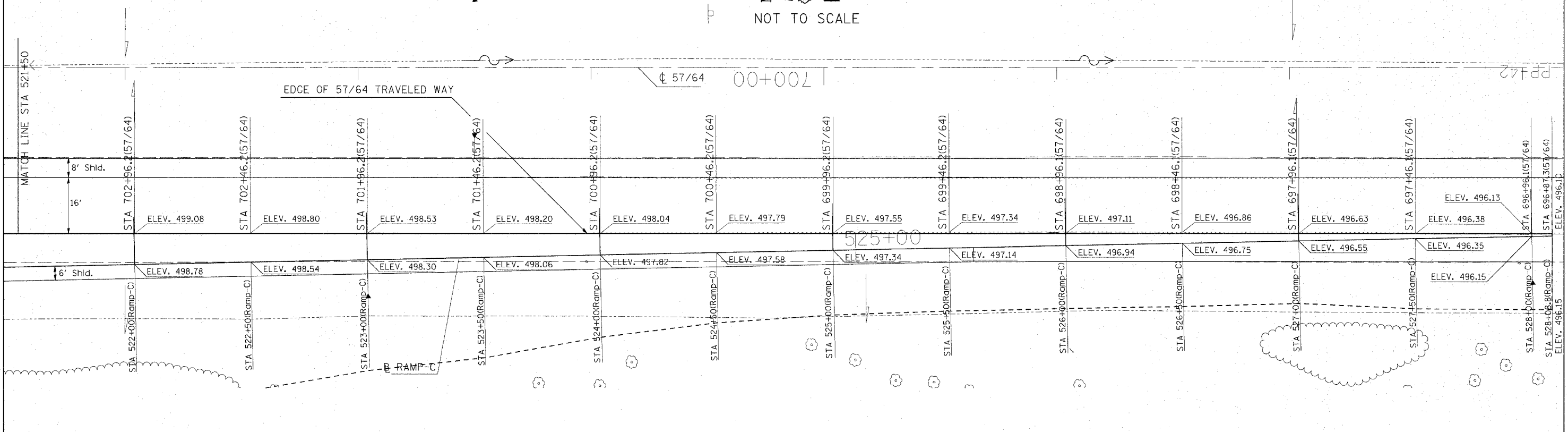
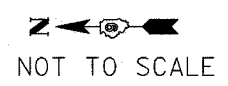
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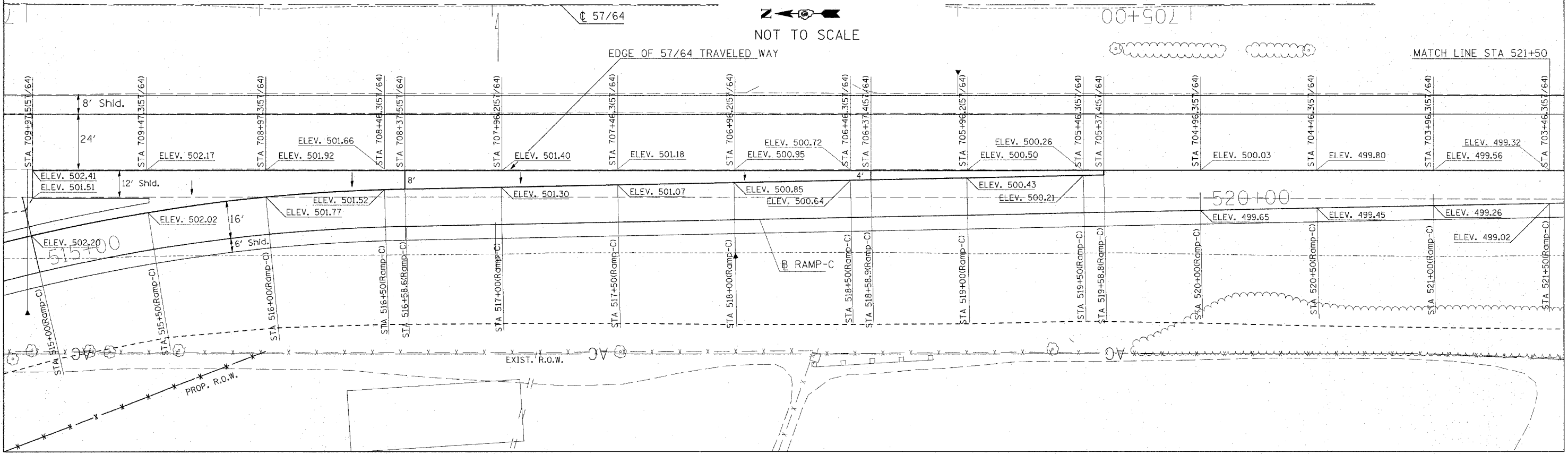
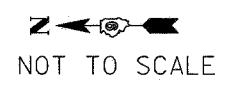
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CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
57/64	(41-3)HBR	JEFFERSON	518
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET NO.
			211

RAMP C TERMINAL



RAMP C TERMINAL

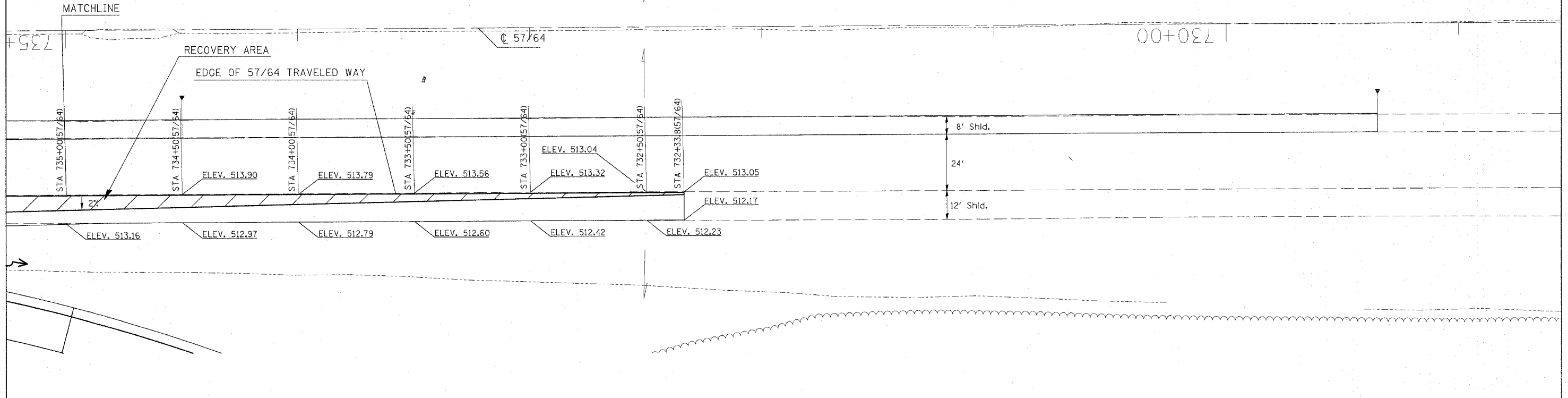


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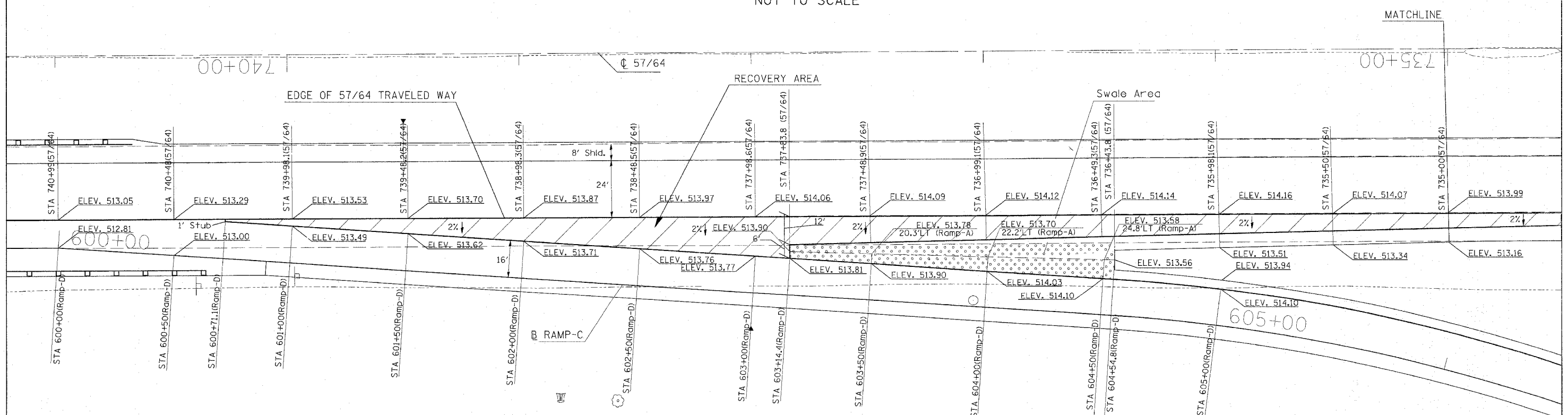
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CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	212
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



RAMP D TERMINAL

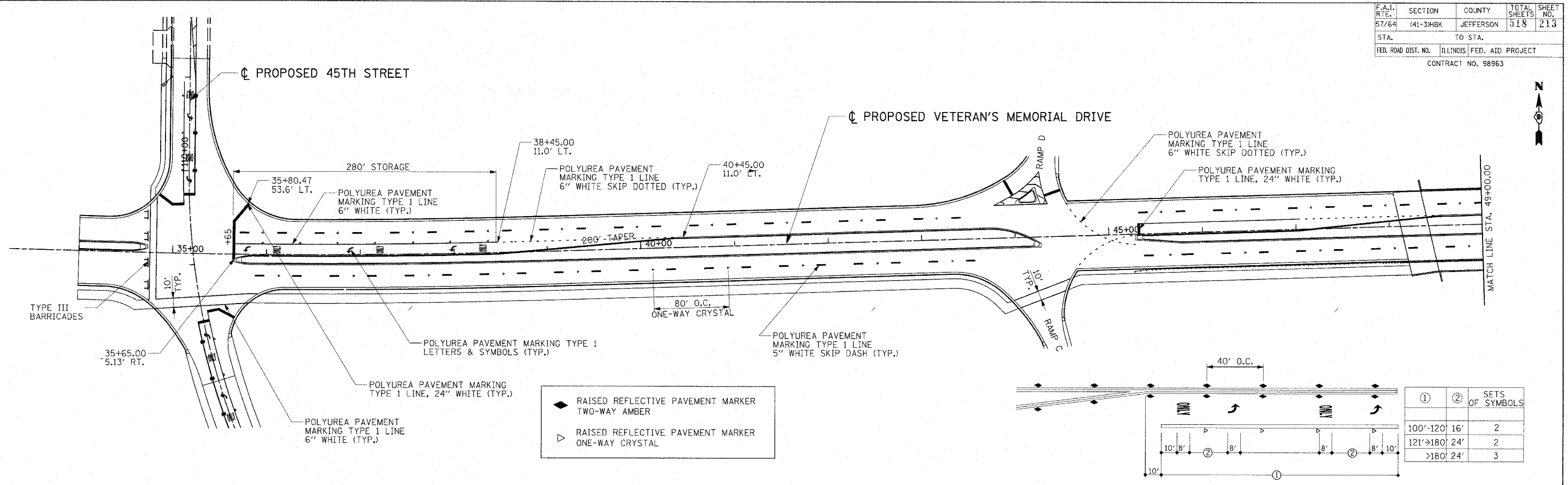
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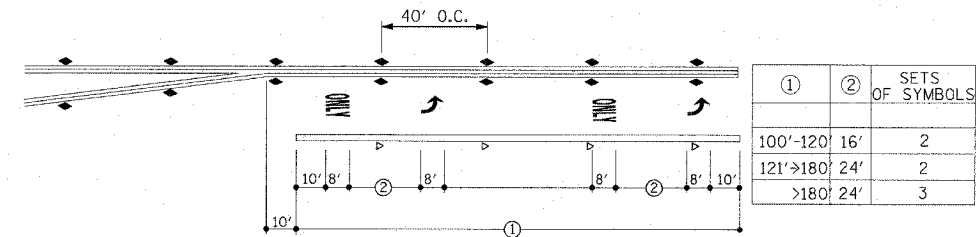
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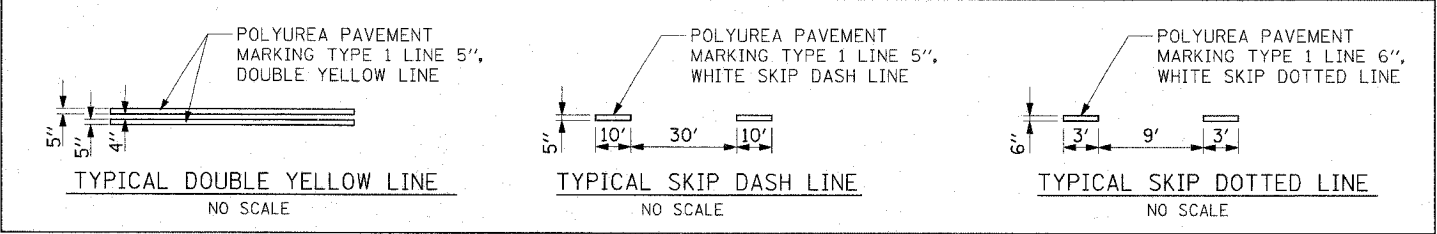
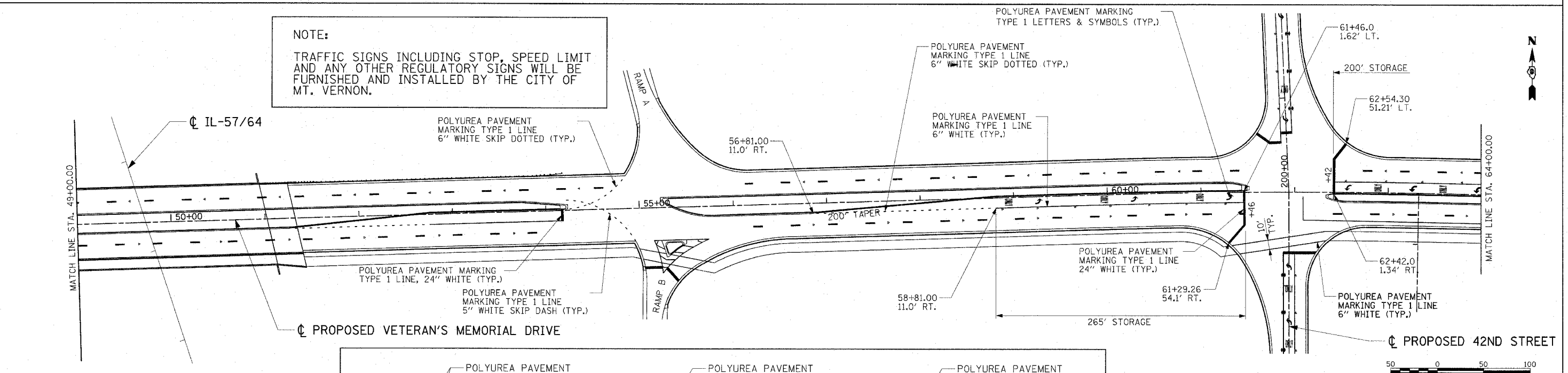
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57/64	(41-3)HBK	JEFFERSON	318	213
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				



- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▷ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL



NOTE:
TRAFFIC SIGNS INCLUDING STOP, SPEED LIMIT AND ANY OTHER REGULATORY SIGNS WILL BE FURNISHED AND INSTALLED BY THE CITY OF MT. VERNON.

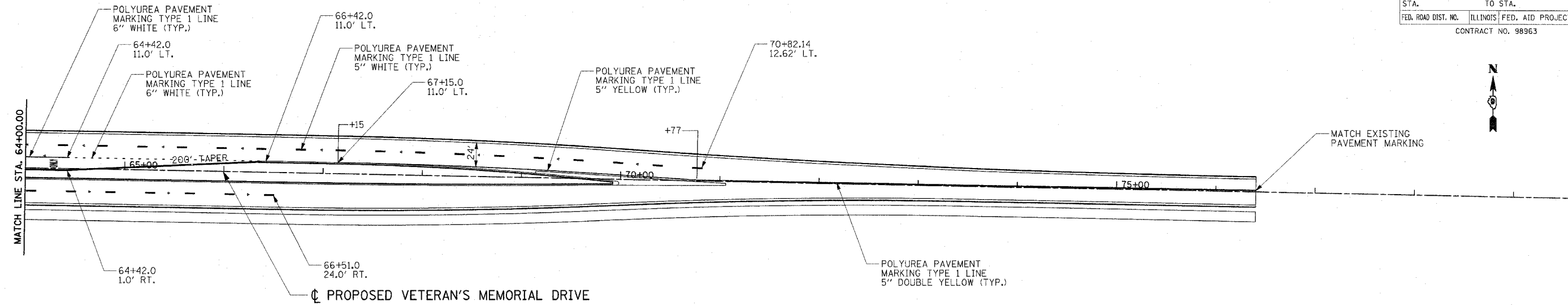


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 STA. 34+00.00 TO 64+00.00
VETERANS MEMORIAL DRIVE INTERCHANGE
 SECTION (41-3)HBK
 SCALE: 1"=50'
 DATE 3-22-07
 DRAWN BY RL
 CHECKED BY MTM

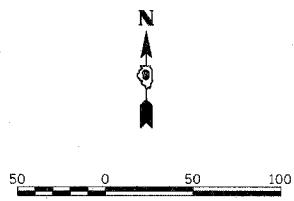
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 LAYOUT: RL 02/26/04
 DRAWN: JED 04/22/04
 REVIEWED: MTM 03/22/07
 Copyright Hanson Professional Services, Inc. 2007
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 Hanson Professional Services Inc.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	214
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				



VETERAN'S MEMORIAL DRIVE

- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▽ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL



REVISIONS		NAME	DATE
NO.	DESCRIPTION		

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
STA. 64+00.00 TO STA. 70+82.14
VETERAN'S MEMORIAL DRIVE
INTERCHANGE
SECTION (41-3)HBK
SCALE: 1"=50'
DATE 3-22-07
DRAWN BY RLT
CHECKED BY MTM

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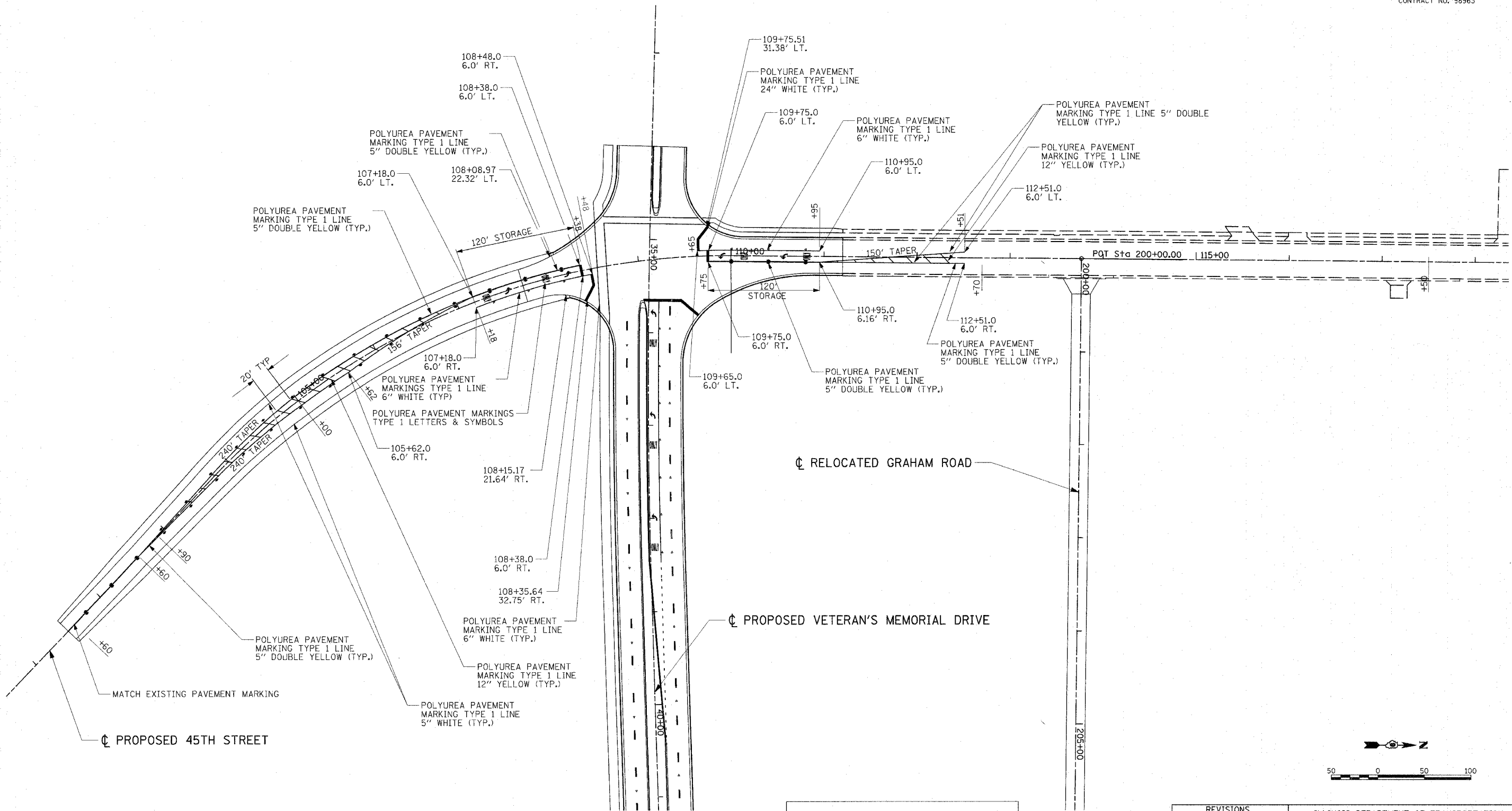
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DATE	BY	CHKD
02/26/04	RLT	
04/22/04	JEO	
03/22/07	MTM	

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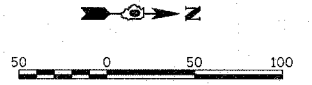
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DRAWN	SEC	04/22/04
REVIEWED	MM	03/22/07



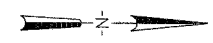
- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▷ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
PROPOSED 45TH STREET
STA. 101+60.00 TO STA. 112+70.00
VETERANS MEMORIAL DRIVE
INTERCHANGE
SECTION (41-3)HBK
 SCALE: 1"=50'
 DATE 3-22-07
 DRAWN BY RLT
 CHECKED BY MTM



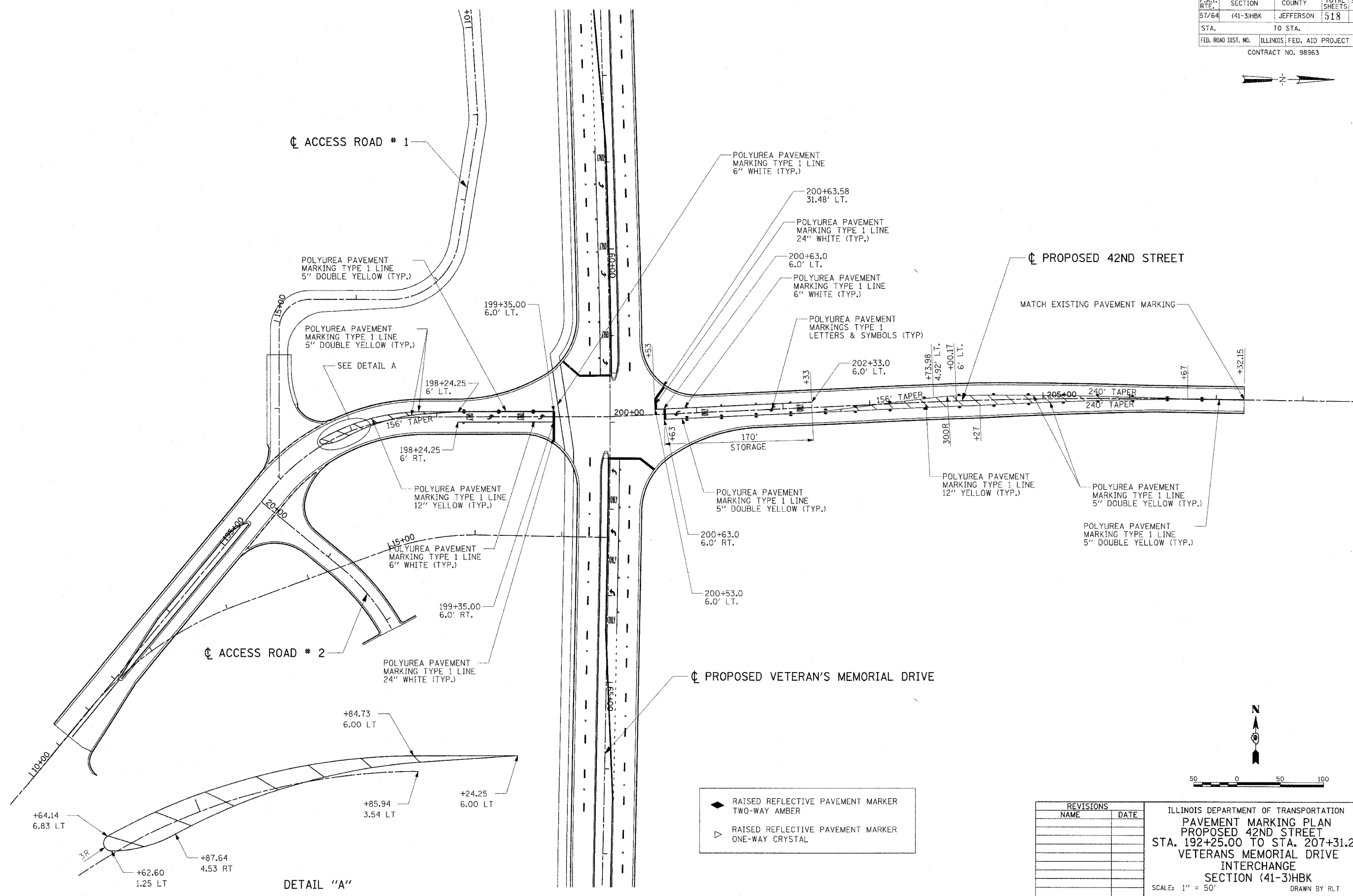
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57/64	(41-3)HBK	JEFFERSON	518	216
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 98963				



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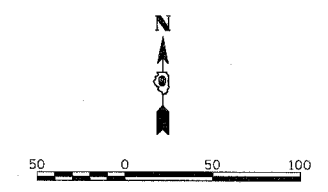
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DRAWN	REO	04/27/04
REVIEWED	MTW	03/22/07



DETAIL "A"

- ◆ RAISED REFLECTIVE PAVEMENT MARKER TWO-WAY AMBER
- ▽ RAISED REFLECTIVE PAVEMENT MARKER ONE-WAY CRYSTAL

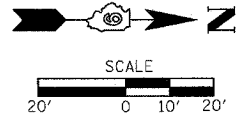


REVISIONS	
NAME	DATE

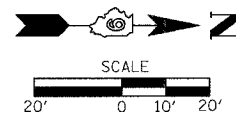
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
PROPOSED 42ND STREET
STA. 192+25.00 TO STA. 207+31.25
VETERANS MEMORIAL DRIVE
INTERCHANGE
SECTION (41-3)HBK
 SCALE: 1" = 50'
 DATE 3-22-07
 DRAWN BY RLT
 CHECKED BY MTM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)BK	JEFFERSON	518	217
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

RAMP A/B



RAMP C/D



CL VETERANS MEMORIAL DRIVE

CL VETERANS MEMORIAL DRIVE

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

THERMOPLASTIC PAVEMENT MARKING
LINE 6" (WHITE)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (WHITE)

THERMOPLASTIC PAVEMENT MARKING
LINE 6" (WHITE)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

THERMOPLASTIC PAVEMENT MARKING
LINE 12" (YELLOW)

420+00

10+00

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (WHITE)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (WHITE)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

THERMOPLASTIC PAVEMENT MARKING
LINE 12" (YELLOW)

300+00

RAMP A

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

THERMOPLASTIC PAVEMENT MARKING
LINE 24" (WHITE)

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (YELLOW)

155+00

THERMOPLASTIC PAVEMENT MARKING
LINE 4" (WHITE)

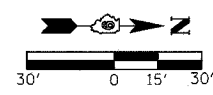
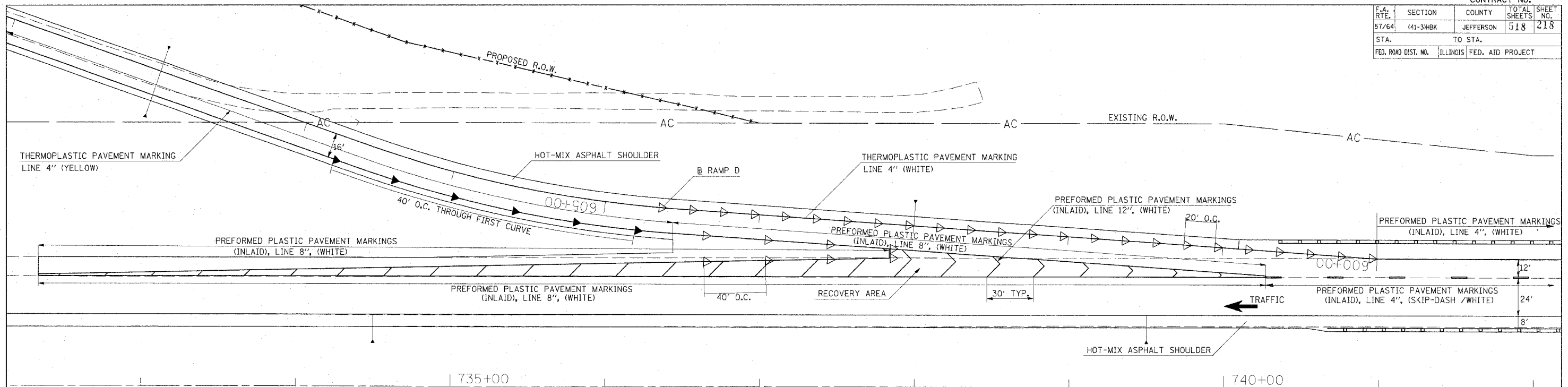
THERMOPLASTIC PAVEMENT MARKING
LINE 24" (WHITE)

500+00

145+00

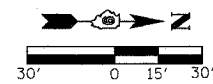
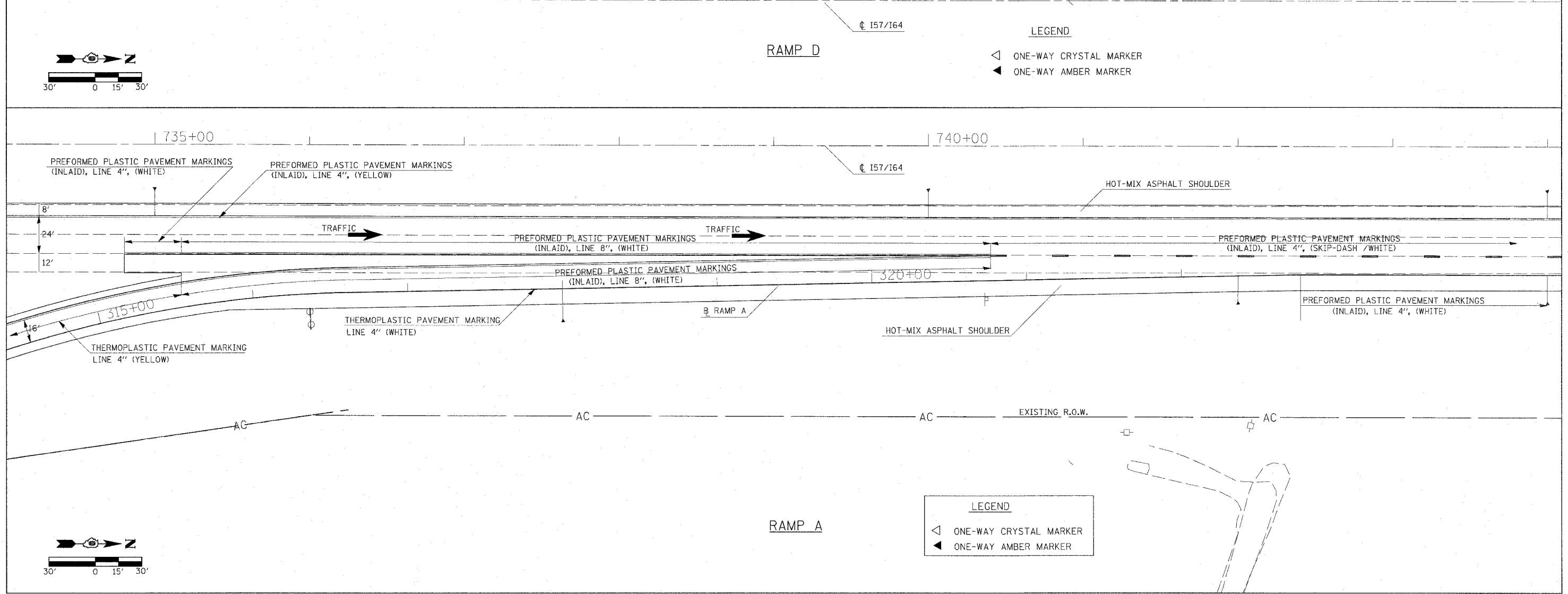
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CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	218
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



RAMP D

- LEGEND
- ◁ ONE-WAY CRYSTAL MARKER
 - ◄ ONE-WAY AMBER MARKER



RAMP A

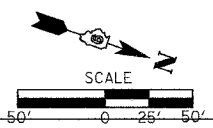
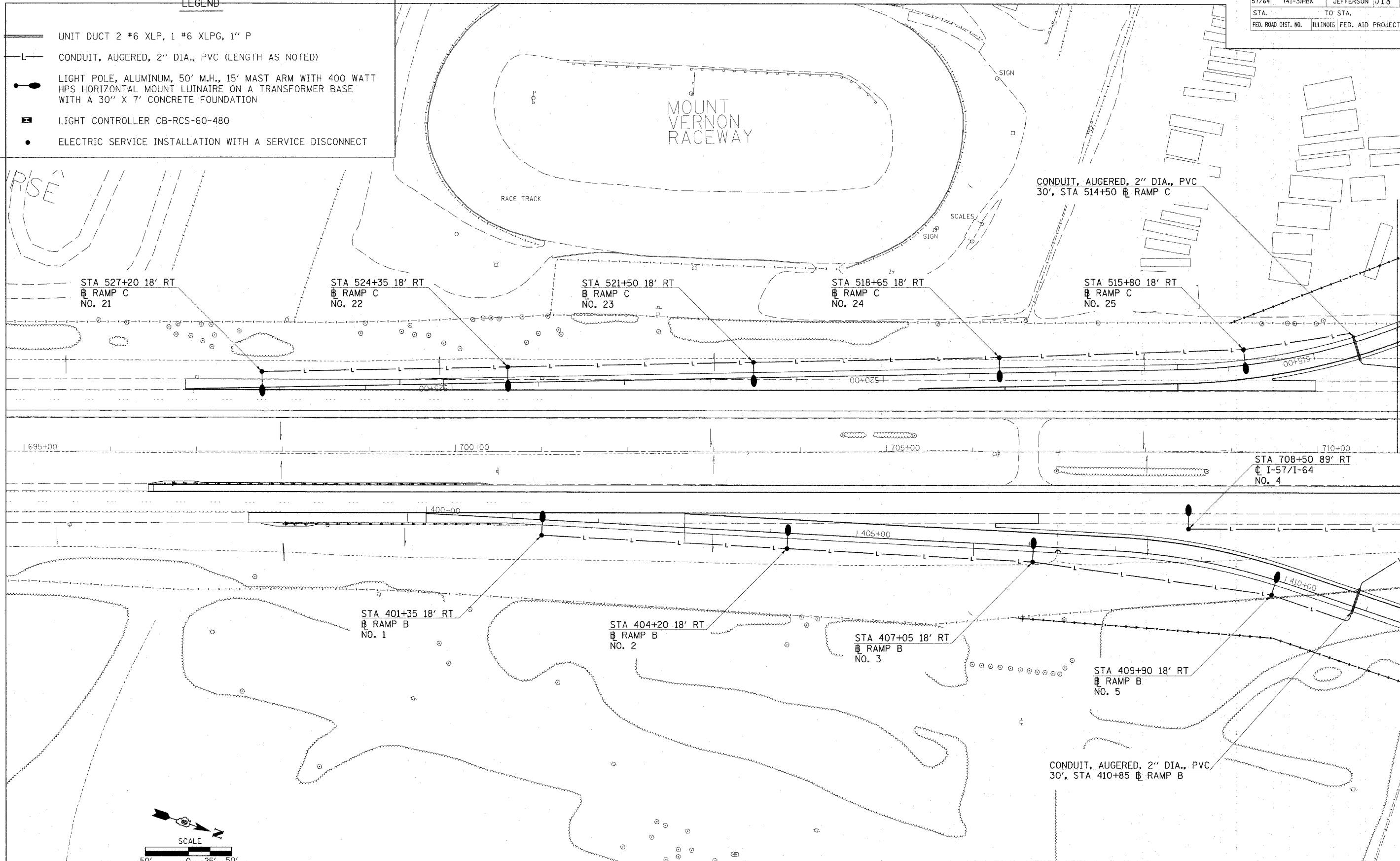
- LEGEND
- ◁ ONE-WAY CRYSTAL MARKER
 - ◄ ONE-WAY AMBER MARKER

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	220
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUNAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

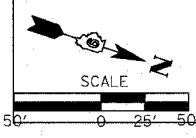
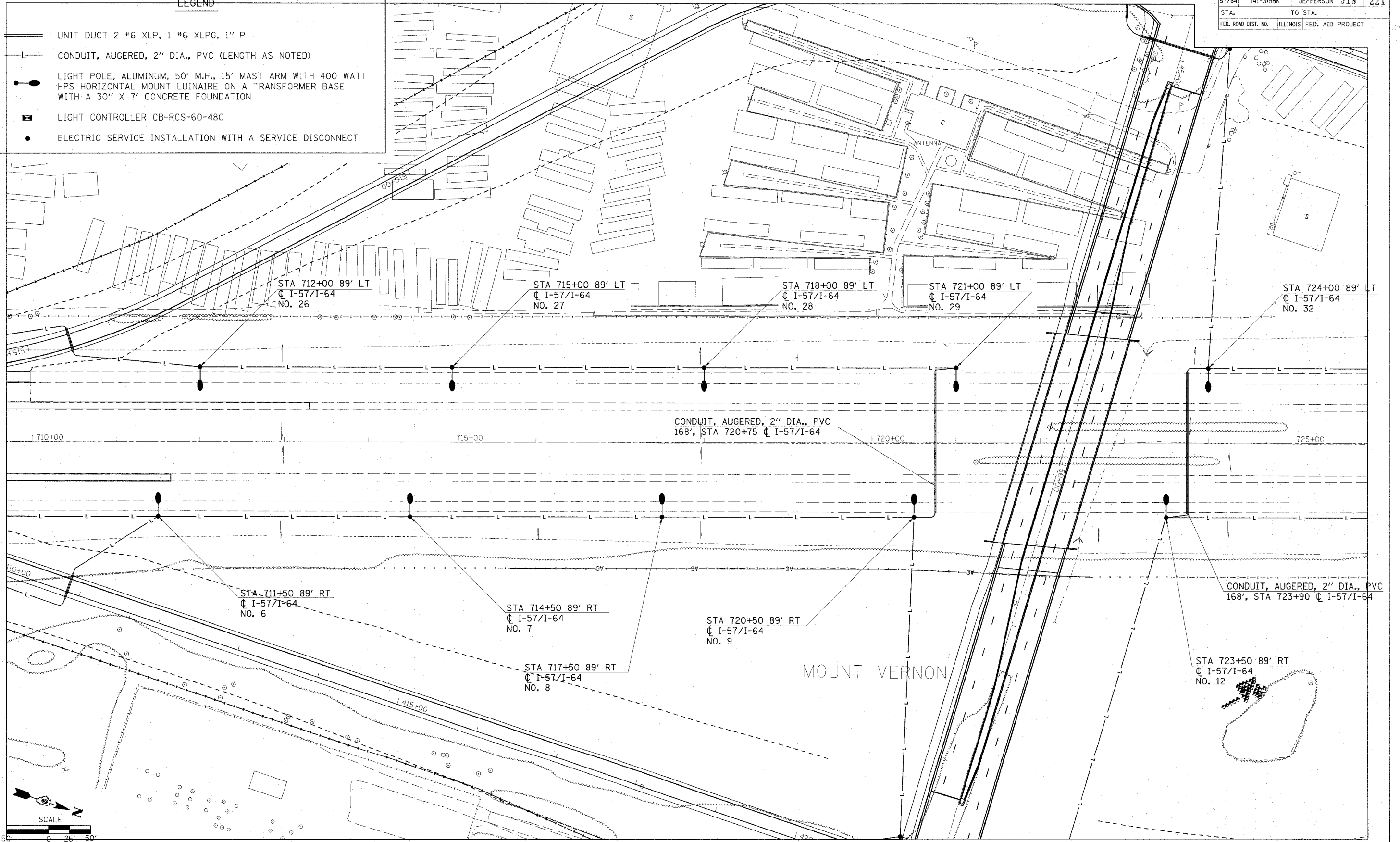


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 5.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	221
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

LEGEND

- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUNAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- ⊠ LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

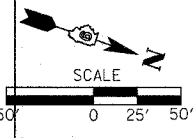
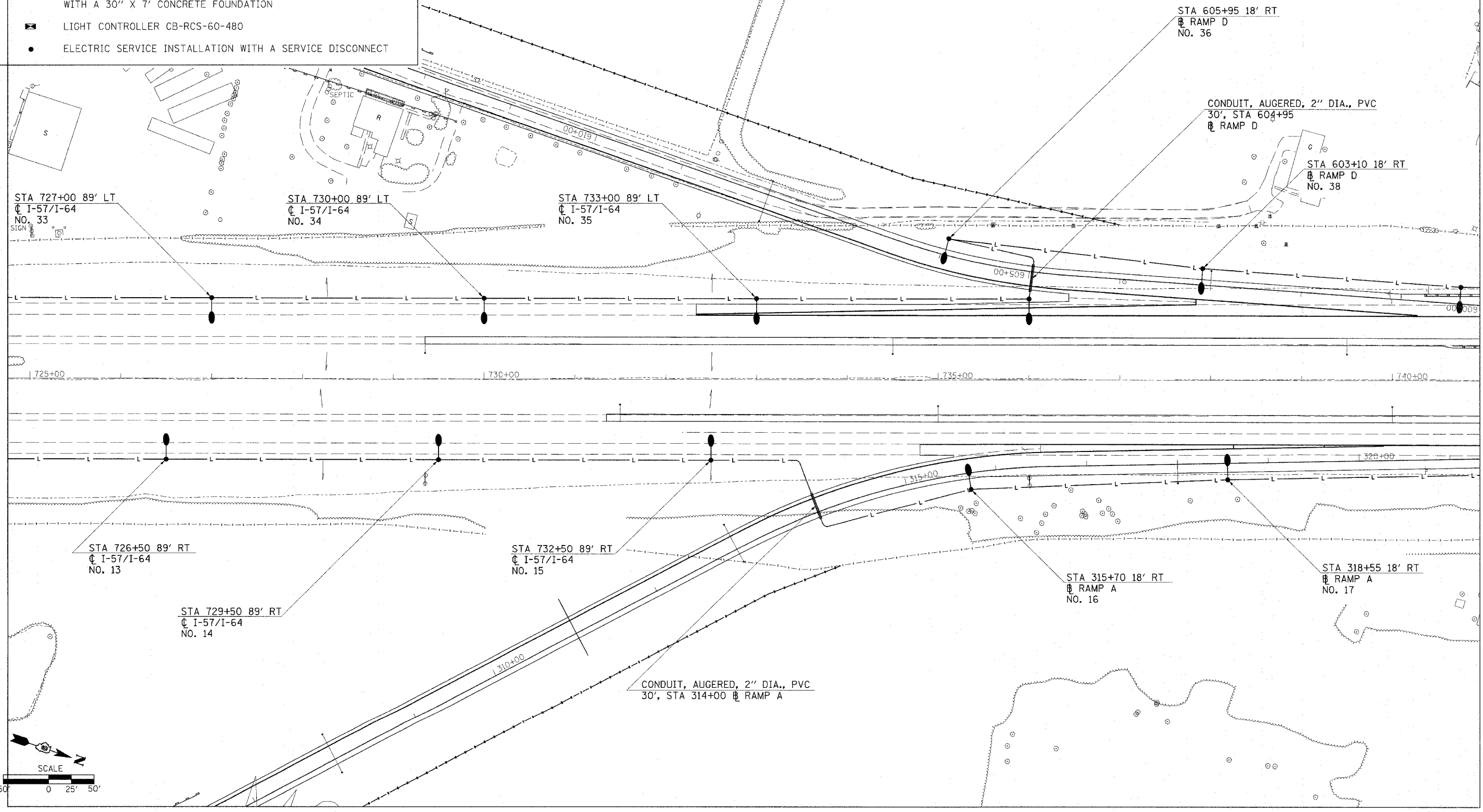


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57/64	(41-3)HBK	JEFFERSON	518	222
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LEGEND






- UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
- L — CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
- LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUNAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
- ⊠ LIGHT CONTROLLER CB-RCS-60-480
- ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT

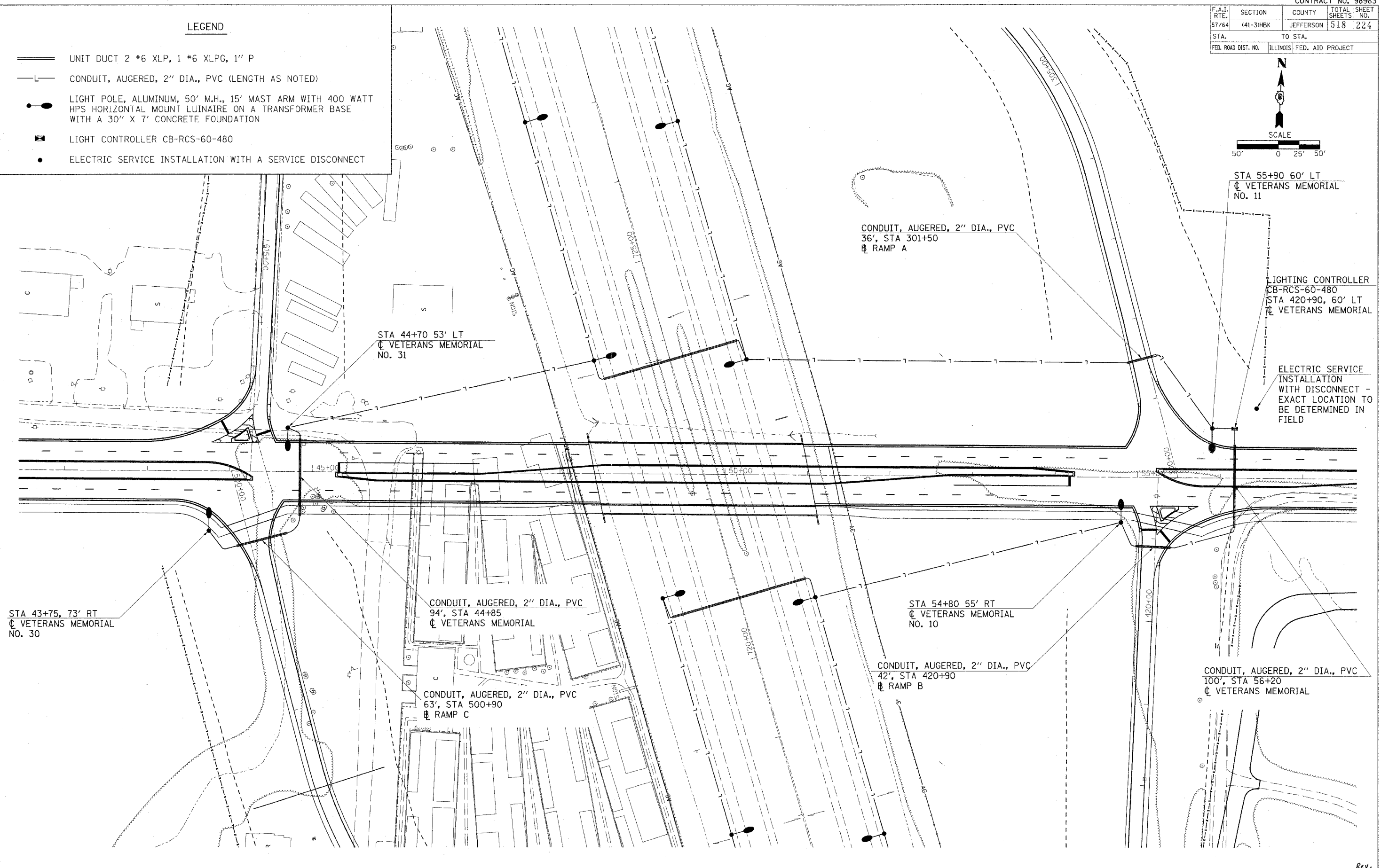
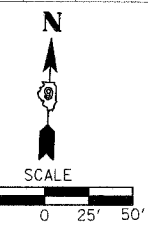


B3\21\2807_09\05_04
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 2/28/06 / JN
 Plot

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	224
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

LEGEND

-  UNIT DUCT 2 #6 XLP, 1 #6 XLPG, 1" P
-  CONDUIT, AUGERED, 2" DIA., PVC (LENGTH AS NOTED)
-  LIGHT POLE, ALUMINUM, 50' M.H., 15' MAST ARM WITH 400 WATT HPS HORIZONTAL MOUNT LUNAIRE ON A TRANSFORMER BASE WITH A 30" X 7' CONCRETE FOUNDATION
-  LIGHT CONTROLLER CB-RCS-60-480
-  ELECTRIC SERVICE INSTALLATION WITH A SERVICE DISCONNECT



STA 43+75, 73' RT
 ☐ VETERANS MEMORIAL
 NO. 30

STA 44+70 53' LT
 ☐ VETERANS MEMORIAL
 NO. 31

CONDUIT, AUGERED, 2" DIA., PVC
 94', STA 44+85
 ☐ VETERANS MEMORIAL

CONDUIT, AUGERED, 2" DIA., PVC
 63', STA 500+90
 ☐ RAMP C

CONDUIT, AUGERED, 2" DIA., PVC
 36', STA 301+50
 ☐ RAMP A

STA 54+80 55' RT
 ☐ VETERANS MEMORIAL
 NO. 10

CONDUIT, AUGERED, 2" DIA., PVC
 42', STA 420+90
 ☐ RAMP B

CONDUIT, AUGERED, 2" DIA., PVC
 100', STA 56+20
 ☐ VETERANS MEMORIAL

STA 55+90 60' LT
 ☐ VETERANS MEMORIAL
 NO. 11

LIGHTING CONTROLLER
 CB-RCS-60-480
 STA 420+90, 60' LT
 ☐ VETERANS MEMORIAL

ELECTRIC SERVICE
 INSTALLATION
 WITH DISCONNECT -
 EXACT LOCATION TO
 BE DETERMINED IN
 FIELD

03/27/2017 09:21 AM
 I:\Projects\98963\98963\11011 RAMP5_V\98963-5-132
 50.00000' / IN.
 JMG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	225
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

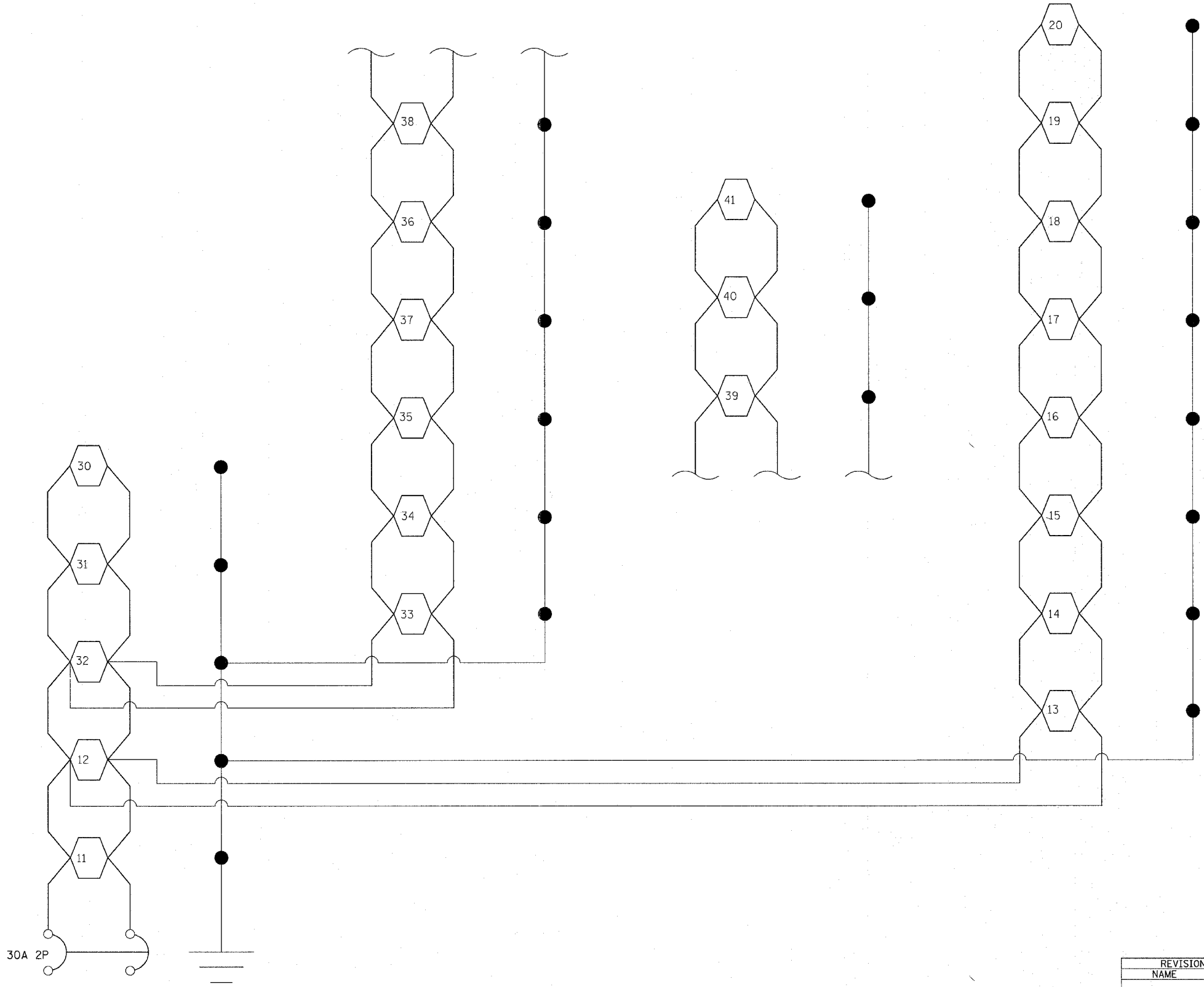
LIGHTING BILL OF MATERIALS

PAY ITEM	DESCRIPTION	UNIT	TOTAL QUANTITIES
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81021550	CONDUIT, AUGURED, 2" DIA., PVC	FOOT	755
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10,915
81603035	UNIT DUCT, 600V, 2-1/C NO. 6. 1/C NO. 6 GROUND, (XLP TYPE-USE) 1" DIA. POLYETHYLENE	FOOT	12,035
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 400 WATT	EACH	41
82500540	LIGHTING CONTROLLER TYPE CB-RCS 100 AMP - 480 VOLT	EACH	1
83010600	LIGHT POLE, ALUMINUM, 50 FT. M. H. 15 FT. MAST ARM	EACH	41
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	287
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	41

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 USER NAME = KAY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHTING BILL OF MATERIALS SCALE: VERT. NONE HORIZ. DATE DRAWN BY CHECKED BY
NAME	DATE	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	226
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 03/21/2007 09:55 AM
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

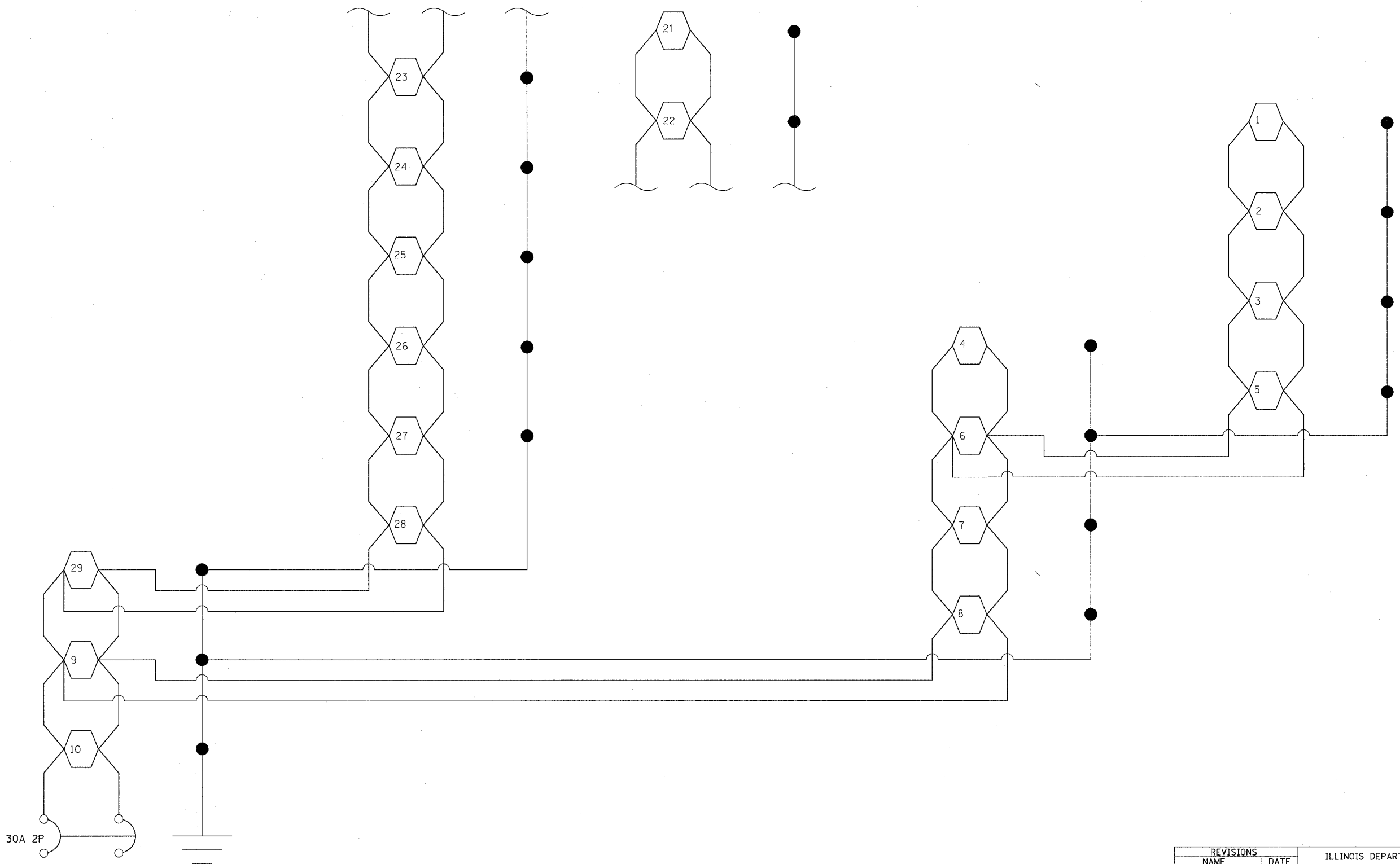
CIRCUIT "A"

SCALE: VERT. NONE
 DATE: HORIZ.

DRAWN BY: CHECKED BY:

WIRING DIAGRAM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	227
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 8/31/2007 09:55 AM
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 USER NAME = JLN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

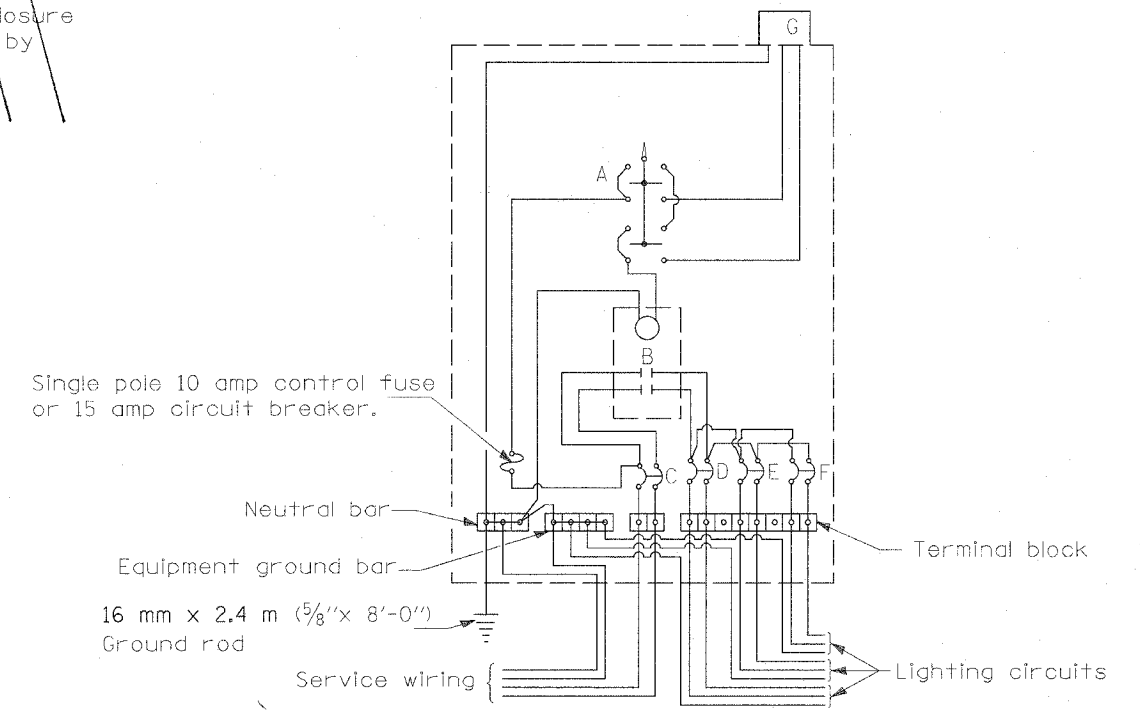
CIRCUIT "B"

SCALE: VERT. NONE
 HORIZ. NONE

DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	228
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

- A Selector switch
- B 2 Pole 100 amp contactor
- C 2 Pole 60 amp service disconnect
- D,E,F 2 Pole 30 amp breakers
- G Photocell w/integral surge arrester



WIRING DIAGRAM

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 46 m (150'). Total aerial and underground service between the control installation and primary transformer shall not exceed 76 m (250').

Raceways shall terminate 75 (3) above top of concrete foundation.

For 480 V. systems, a 480/120 V. control transformer will be required.

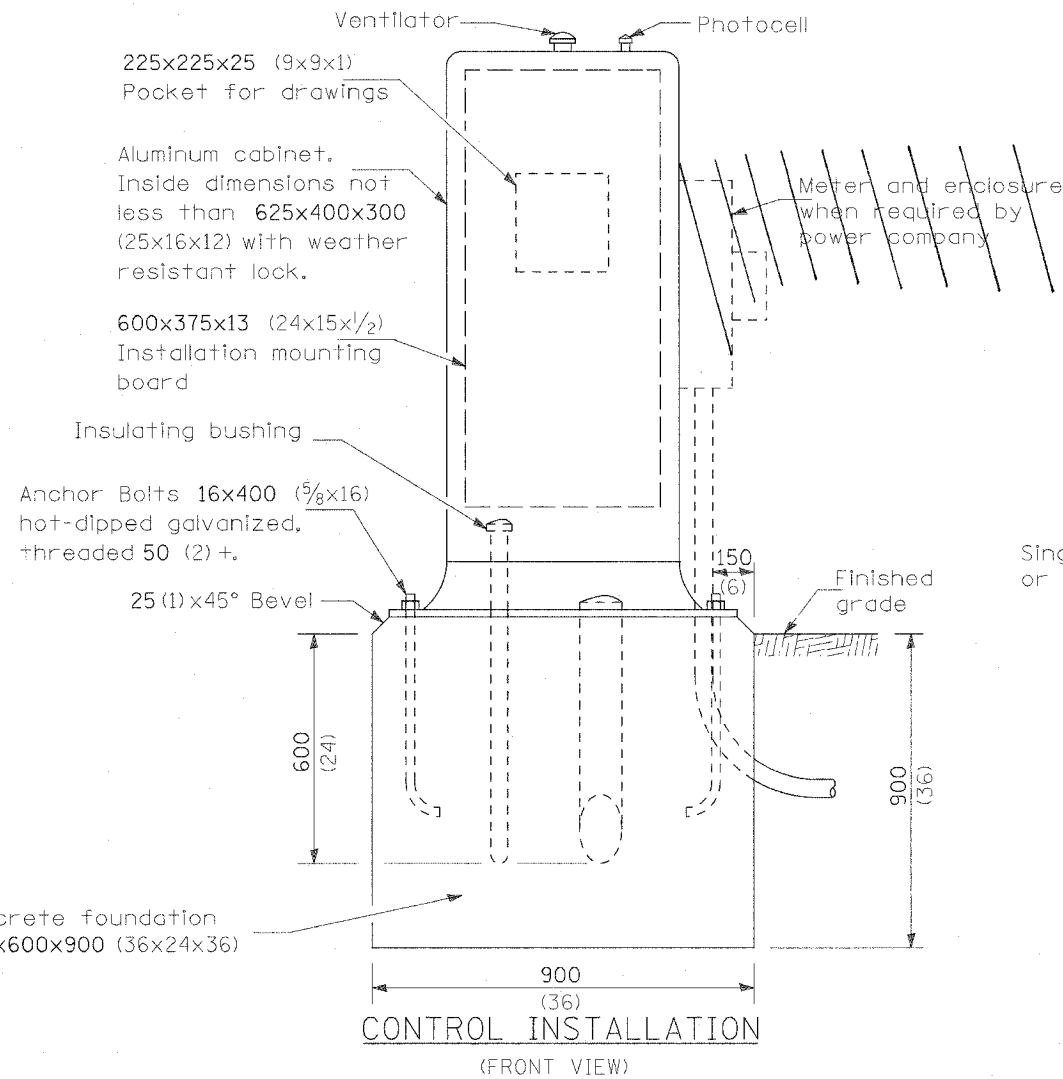
All dimensions are in millimeters unless otherwise shown.

- 240 V. SERVICE
- 480 V. SERVICE

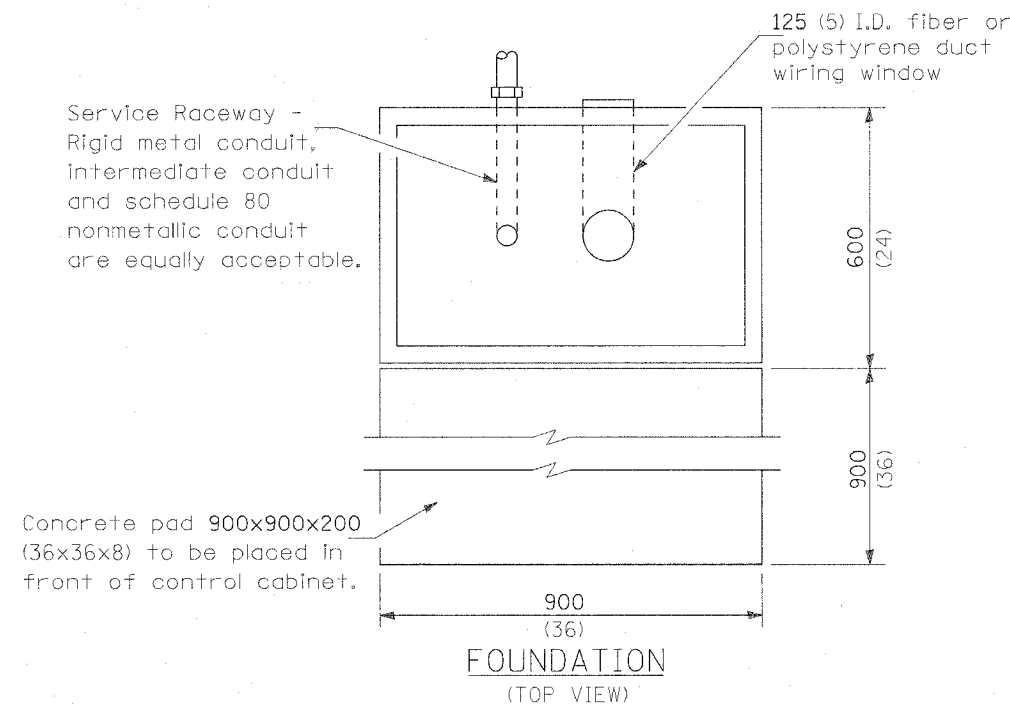
DATE	REVISIONS

CONTROL INSTALLATION
TYPE CB-RCS-100

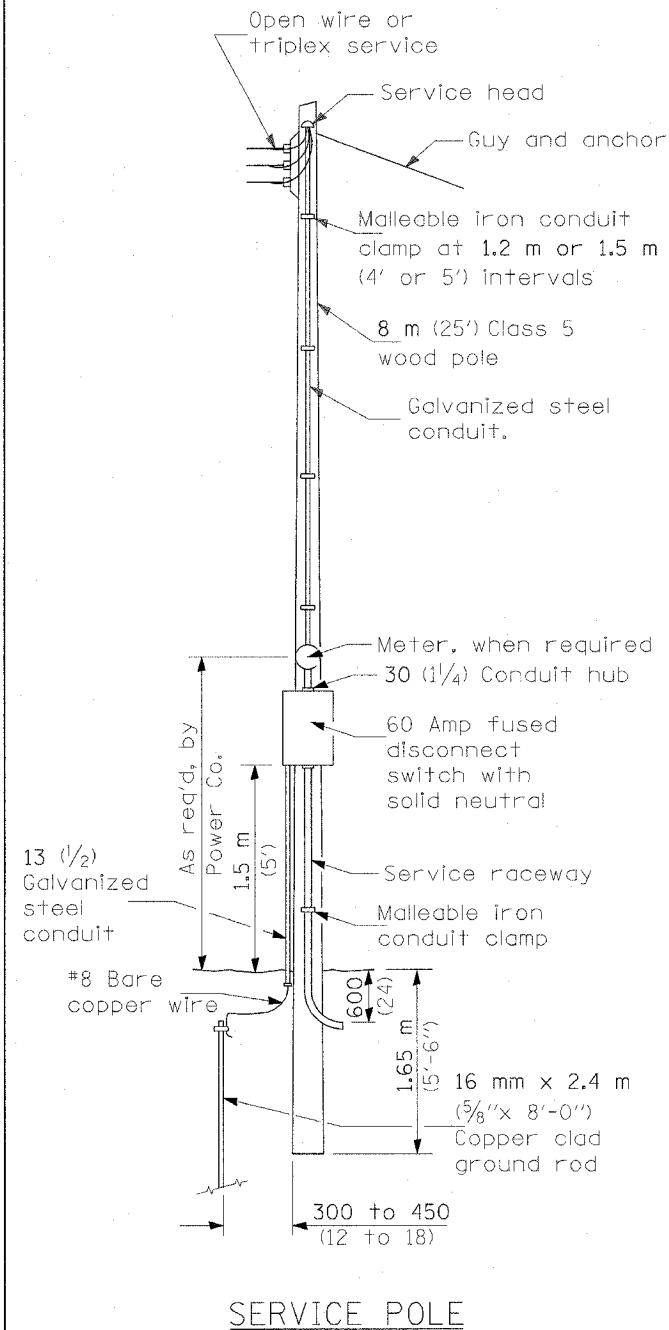
CONTROL INSTALLATION DETAIL



CONTROL INSTALLATION
(FRONT VIEW)



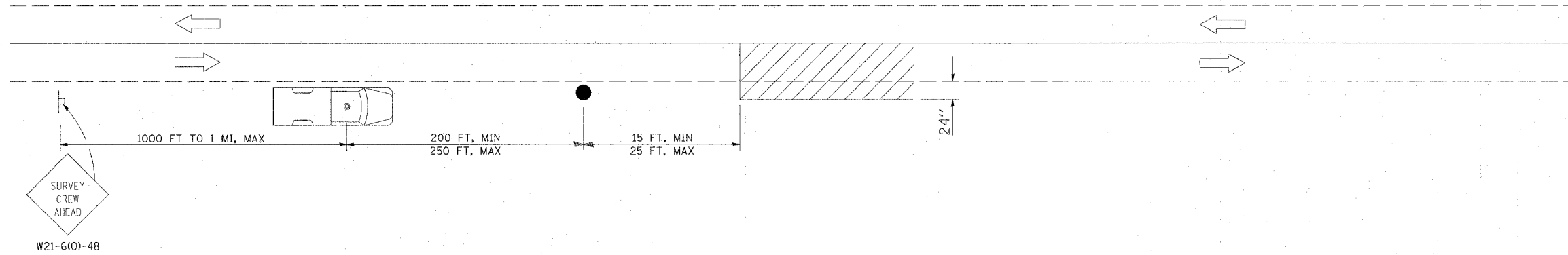
FOUNDATION
(TOP VIEW)



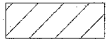



SERVICE POLE

PLOT DATE = 03/21/2007 10:09 AM
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 USER NAME = KES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	229
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SYMBOLS

-  - WORK AREA
-  - SIGN ON PORTABLE OR PERMANENT SUPPORT
-  - TRUCK WITH FLASHING AMBER LIGHT AND DUAL EMERGENCY FLASHERS
-  - FLAGGER WITH TRAFFIC CONTROL SIGN

TYPICAL APPLICATIONS:
UTILITY OPERATIONS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

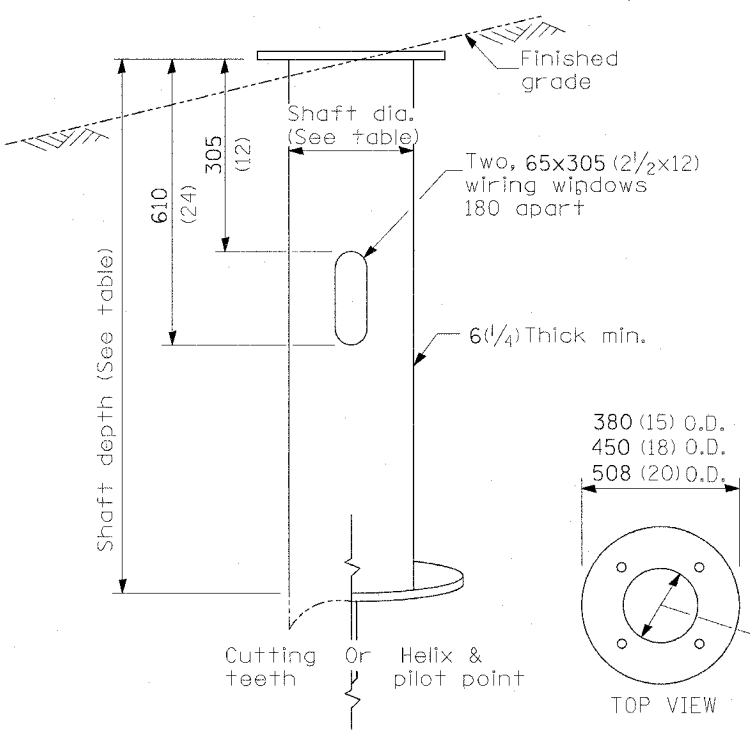
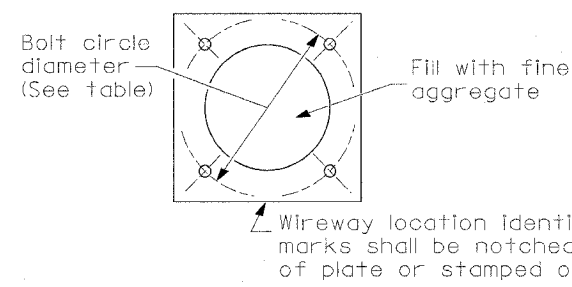
DETAIL FOR
NIGHTTIME LIGHTING
INSPECTION

LGT-017

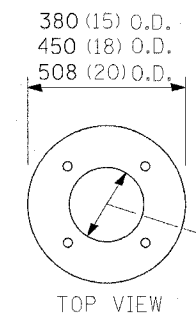
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	230
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH 1
<9.1 m (30')	292 (11)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) 3	220 (8 5/8)	1.83 m (6')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) 3	220 (8 5/8)	1.83 m (6')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) 3	220 (8 5/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

- Length does not include 100(4)hook
- 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used
(PAID FOR AS BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE)



STEEL FOUNDATION

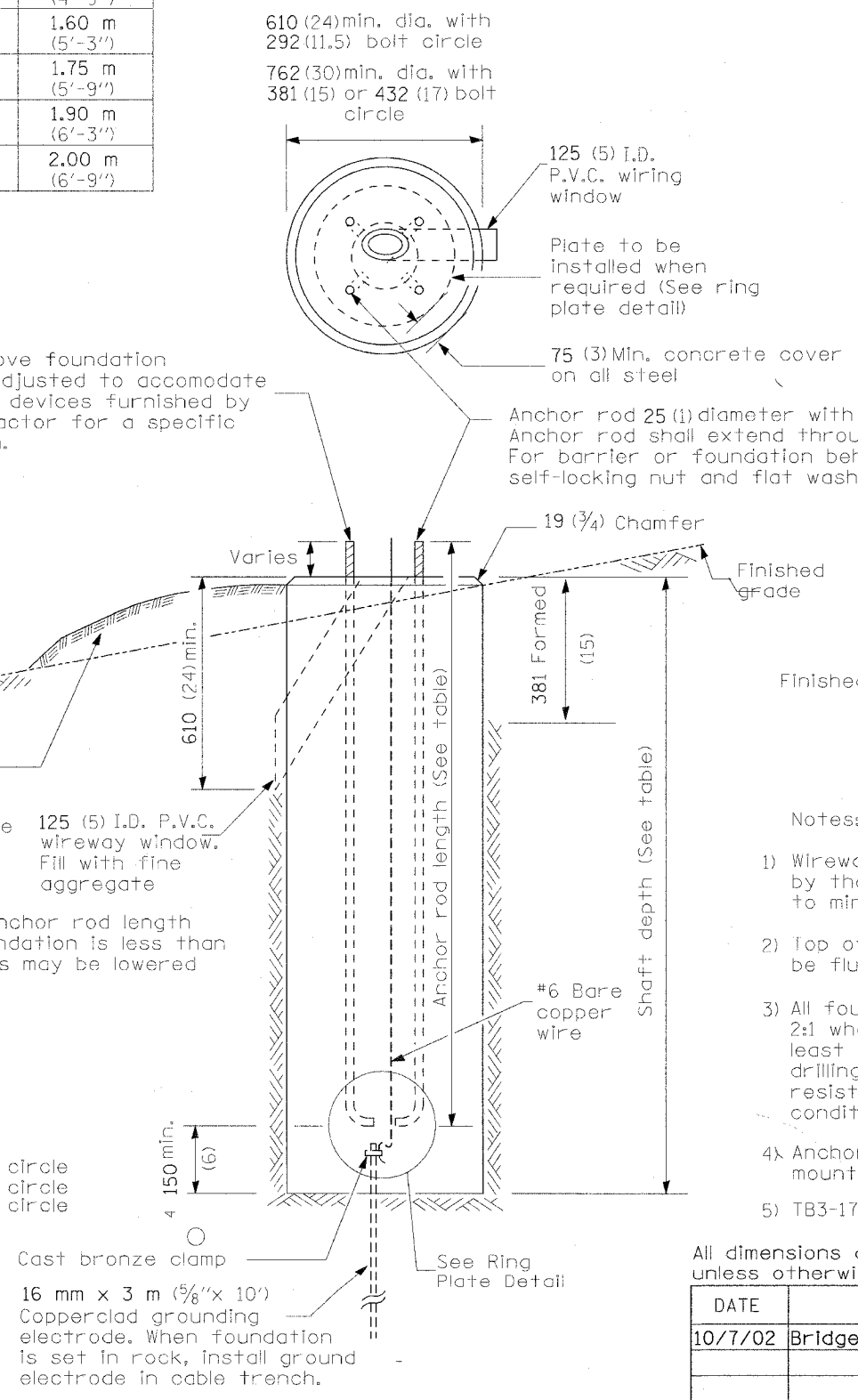


RING PLATE DETAIL
(When rock is encountered and foundation is shallower)

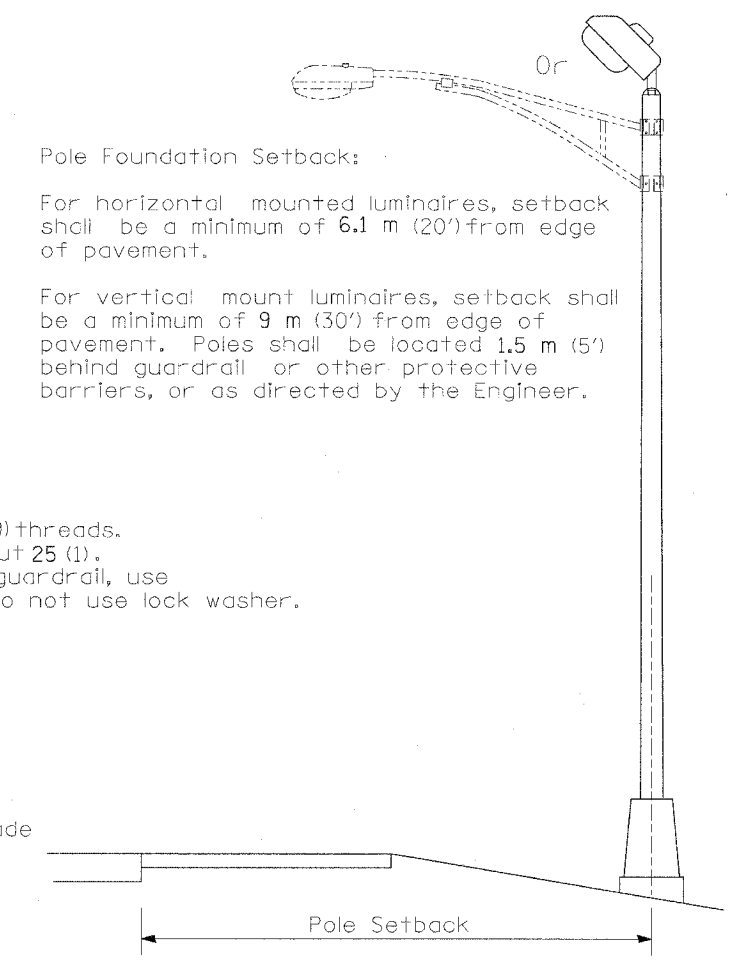
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete

- If the required anchor rod length (above top of foundation) is less than 75 (3), anchor rods may be lowered below 150 (6).



CONCRETE FOUNDATION



Notes:

- Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- TB3-17 transformer base is not to be used on metal foundation

All dimensions are in millimeters (Inches) unless otherwise shown.

DATE	REVISIONS
10/7/02	Bridge Office depth calc.

LIGHT POLE FOUNDATION

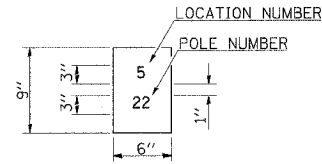
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	18	231
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

POLE STANDARDS

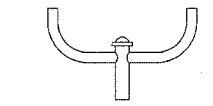
"INSTALL AND ORIENT ARM BRACKET OVER POLE TENON AND FIRMLY HAND TIGHTEN THE TWO SET SCREWS. USE THIRD HOLE IN ARM BRACKET AS A GUIDE TO DRILL A 3/4" DIAMETER HOLE THROUGH TENON. INSTALL AND TIGHTEN SELF-TAPPING SCREW. TIGHTEN SET SCREWS AN ADDITIONAL 1/4 TO 3/8 TURN WITH HEX KEY (NOT PROVIDED). INSTALL LOCKNUTS ON SET SCREWS IF THREADED PROJECTION ALLOWS."

POLE SHALL MEET AASHTO STANDARD SPECIFICATIONS FOR 80 MPH WIND LOADING AND 90 LB, 4.0 SQ. FT E.P.A. LUMINAIRE.

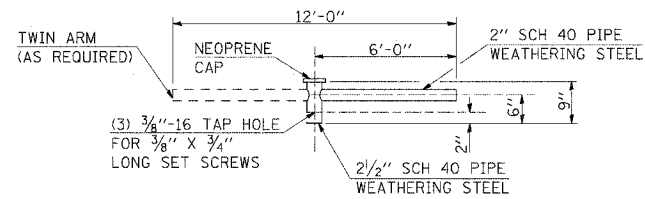


THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION OF EACH NEW LIGHT POLE, AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT POLE PAY ITEM. THE NUMERALS SHALL BE 3", SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 719.11 OF THE STANDARD SPECIFICATIONS, APPROXIMATELY 7" ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 2319.

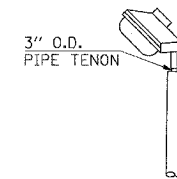


TWIN TENON

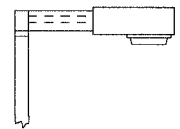


TENON MOUNT BRACKET ARM

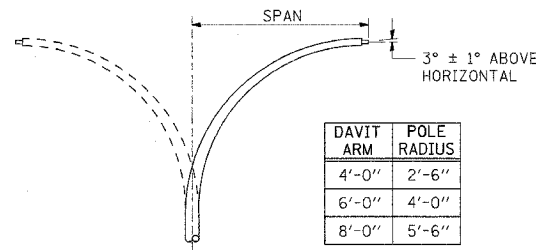
NOTE: SINGLE OR TWIN ARM ASSEMBLY SHALL BE TILTED 3° ABOVE HORIZONTAL.



TENON

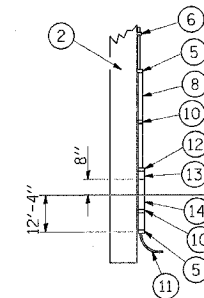


SHORT BRACKET



DAVIT ARM (AND OR)

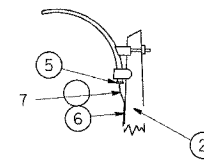
DAVIT ARM-TWIN



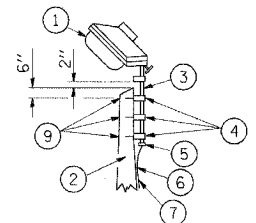
DETAILS FOR UNDERGROUND DISTRIBUTION IF REQUIRED

POLE, WOOD

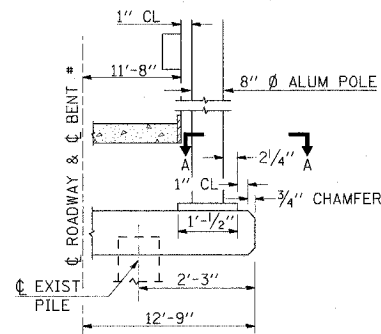
POLE LENGTH	DEPTH IN GROUND
65'-0"	12'-0"
60'-0"	10'-0"
55'-0"	9'-0"
50'-0"	8'-0"
45'-0"	7'-0"
40'-0"	6'-6"
35'-0"	6'-0"
30'-0"	5'-6"



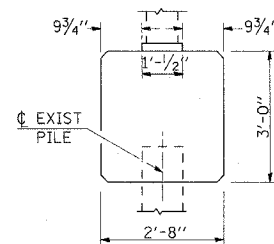
MAST ARM



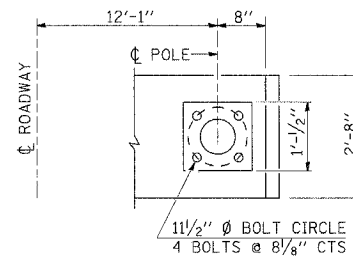
TENON



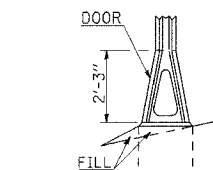
BENT #
(LOOKING)



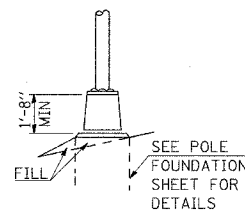
BRIDGE PIER MOUNT



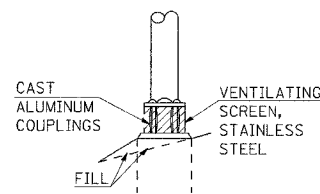
SECTION A-A



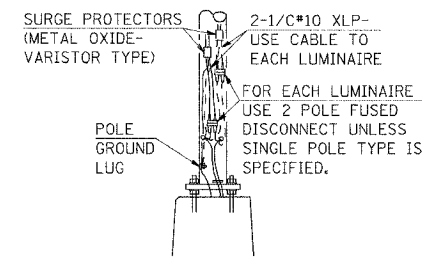
STAINLESS STEEL FLAIR BASE



TRANSFORMER BASE
 FRANGIBLE



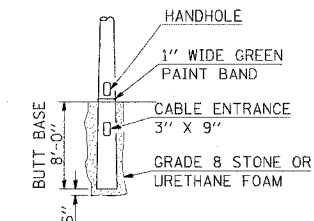
BREAKAWAY COUPLING



ANCHOR

METAL OR CONCRETE

DETAILS FOR UNDERGROUND DISTRIBUTION IF REQUIRED



BUTT BASE

- ① LUMINAIRE
- ② WOOD POLE, CLASS 3 OR BETTER
- ③ 2 1/2" GALV. STEEL CONDUIT
- ④ SINGLE OFFSET POLE BAND
- ⑤ CONDUIT BUSHING
- ⑥ CABLE CLAMPS ON 2' CENTERS
- ⑦ 2/C #12 TYPE USE CABLE
- ⑧ 1" GALV. STEEL CONDUIT 10' IN LENGTH
- ⑨ 5/8" Ø HOT DIPPED GALVANIZED BOLT WITH FLAT WASHER & LOCKNUT (3 REQ'D)
- ⑩ CONDUIT CLAMPS ON 3' CENTERS
- ⑪ UNIT DUCT
- ⑫ THREADED REDUCER
- ⑬ "C" CONDULET, THREADED
- ⑭ 1 1/2" GALV. STEEL CONDUIT FOR 1 UNIT DUCT OR 3" GALV. STEEL CONDUIT FOR 2 OR 3 UNIT DUCTS.

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REVISIONS	DATE
DRAWN	2-9-01
REVISED	4-14-02
REVISED	
REVISED	

STD. 9-115

F.A.I. DISTRICT	ROW	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	*	JEFFERSON	5/8	231A

*(41-3)HBK

MAINLINE
ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes	2
	Median Width	94 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	50 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	18 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	50000
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	300 FT
	Configuration	OPP
	Luminaire Overhang Over Edge Of Pavement Lane	-3 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{ave})	0.6 fc
	Uniformity Ratio, (E_{ave}/E_{min})	3.0
LUMINANCE:	Average Luminance: (L_{ave})	0.4 Cd/m ²
	Uniformity Ratios: (L_{ave}/L_{min})	3.5
		6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{ave})	0.3

RAMPS
ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

1/1/03

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	16 FT
	Number Of Lanes	1
	Median Width	N/A FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	50 FT
	Mast Arm Length	15 FT
	Pole Set-Back From Edge Of Pavement	18 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	50000
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	285 FT
	Configuration	1 Side
	Luminaire Overhang Over Edge Of Pavement Lane	-3 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

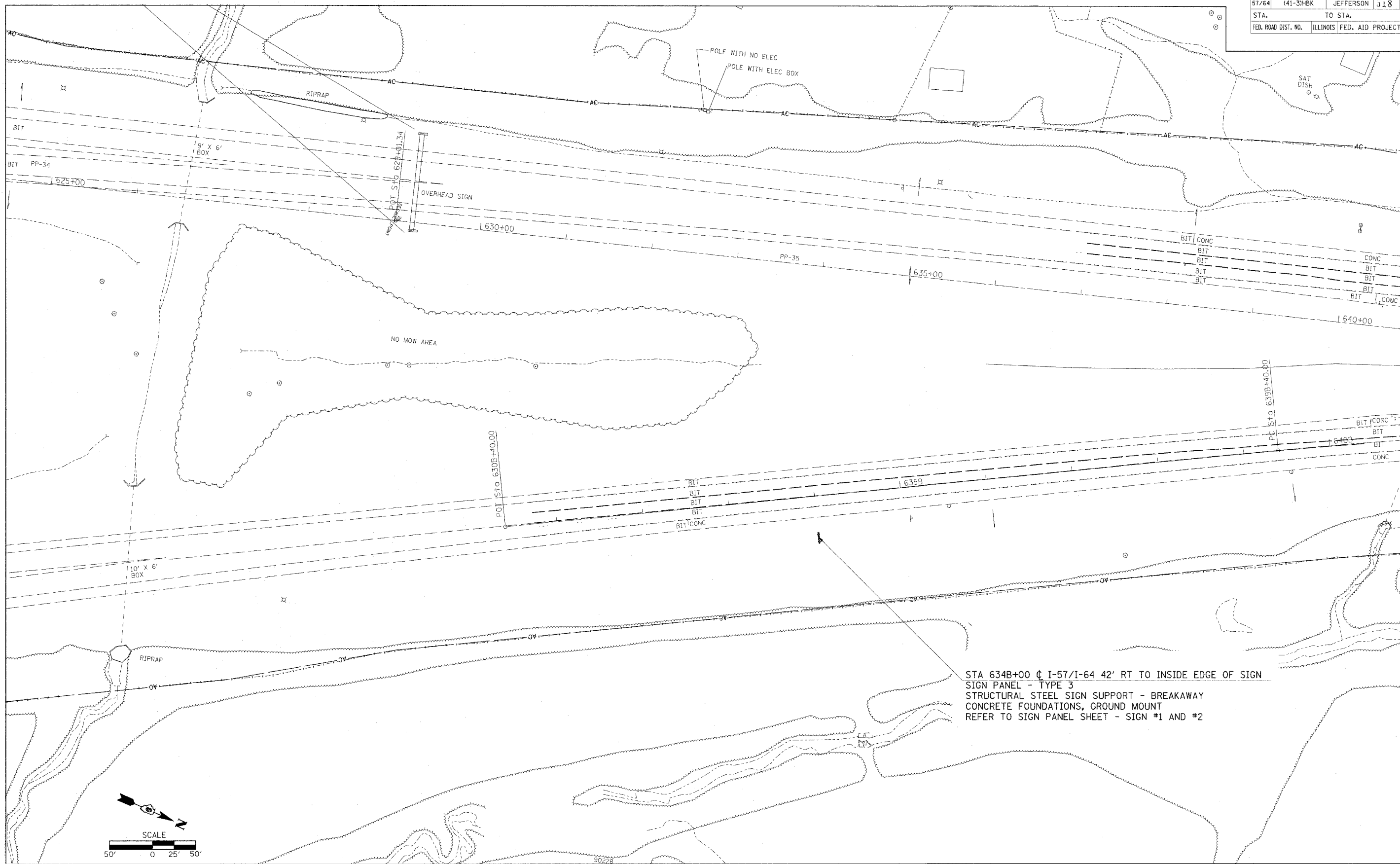
NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{ave})	0.6 fc
	Uniformity Ratio, (E_{ave}/E_{min})	3.0
LUMINANCE:	Average Luminance: (L_{ave})	0.4 Cd/m ²
	Uniformity Ratios: (L_{ave}/L_{min})	3.5
		6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{ave})	0.3

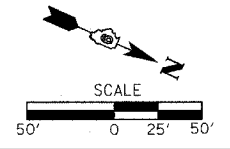
LUMINAIRE PERFORMANCE TABLES

F.A.I. ROUTE 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

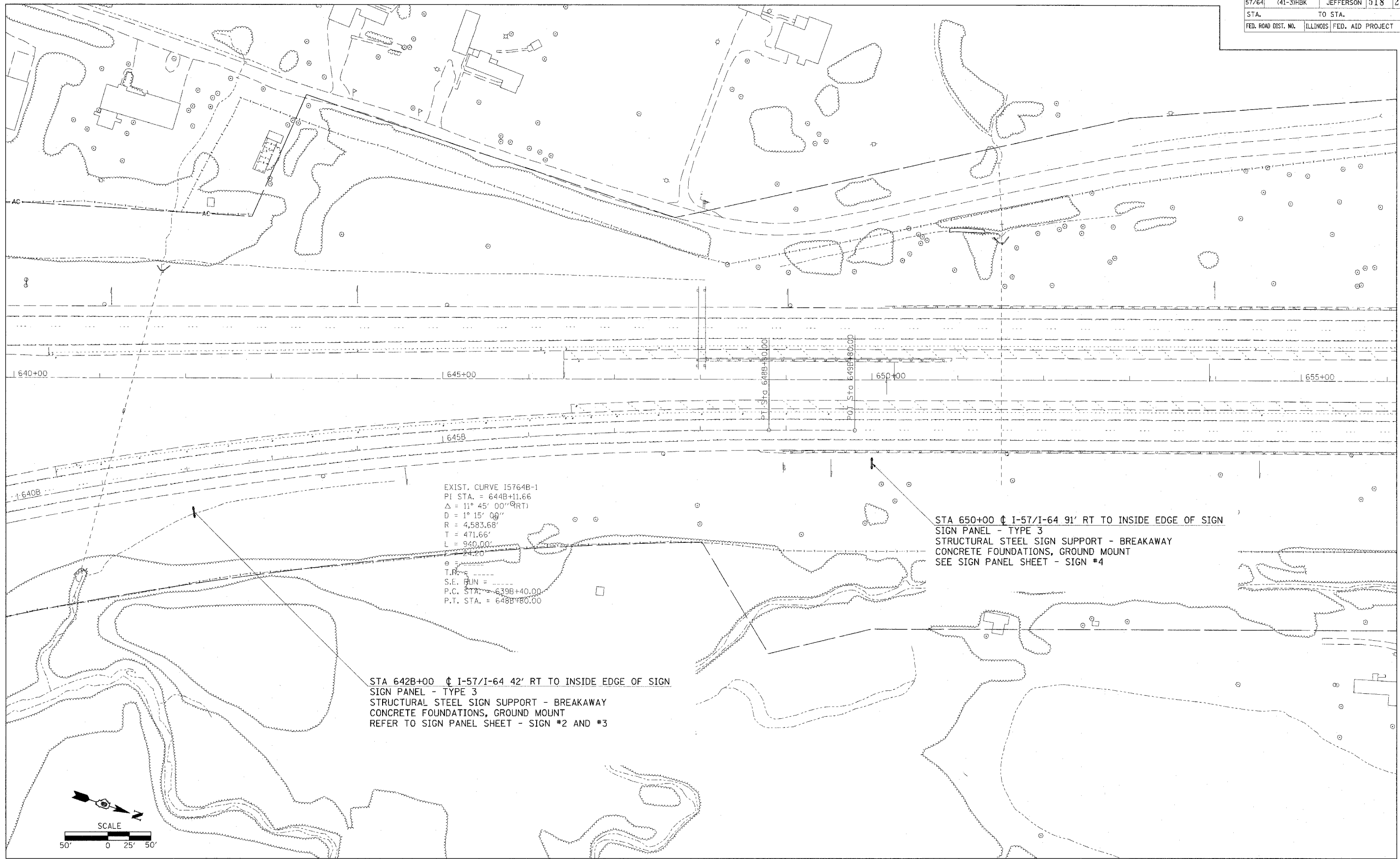


STA 634B+00 C I-57/I-64 42' RT TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 REFER TO SIGN PANEL SHEET - SIGN #1 AND #2



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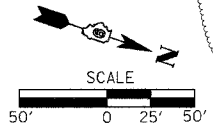
F.A.I. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	233
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



EXIST. CURVE I5764B-1
 PI STA. = 644B+11.66
 $\Delta = 11^{\circ} 45' 00''$ (RT)
 $D = 1^{\circ} 15' 00''$
 $R = 4,583.68'$
 $T = 471.66'$
 $L = 940.00'$
 $E = 24.20'$
 T.P. = -----
 S.E. PIN = -----
 P.C. STA. = 639B+40.00
 P.T. STA. = 648B+80.00

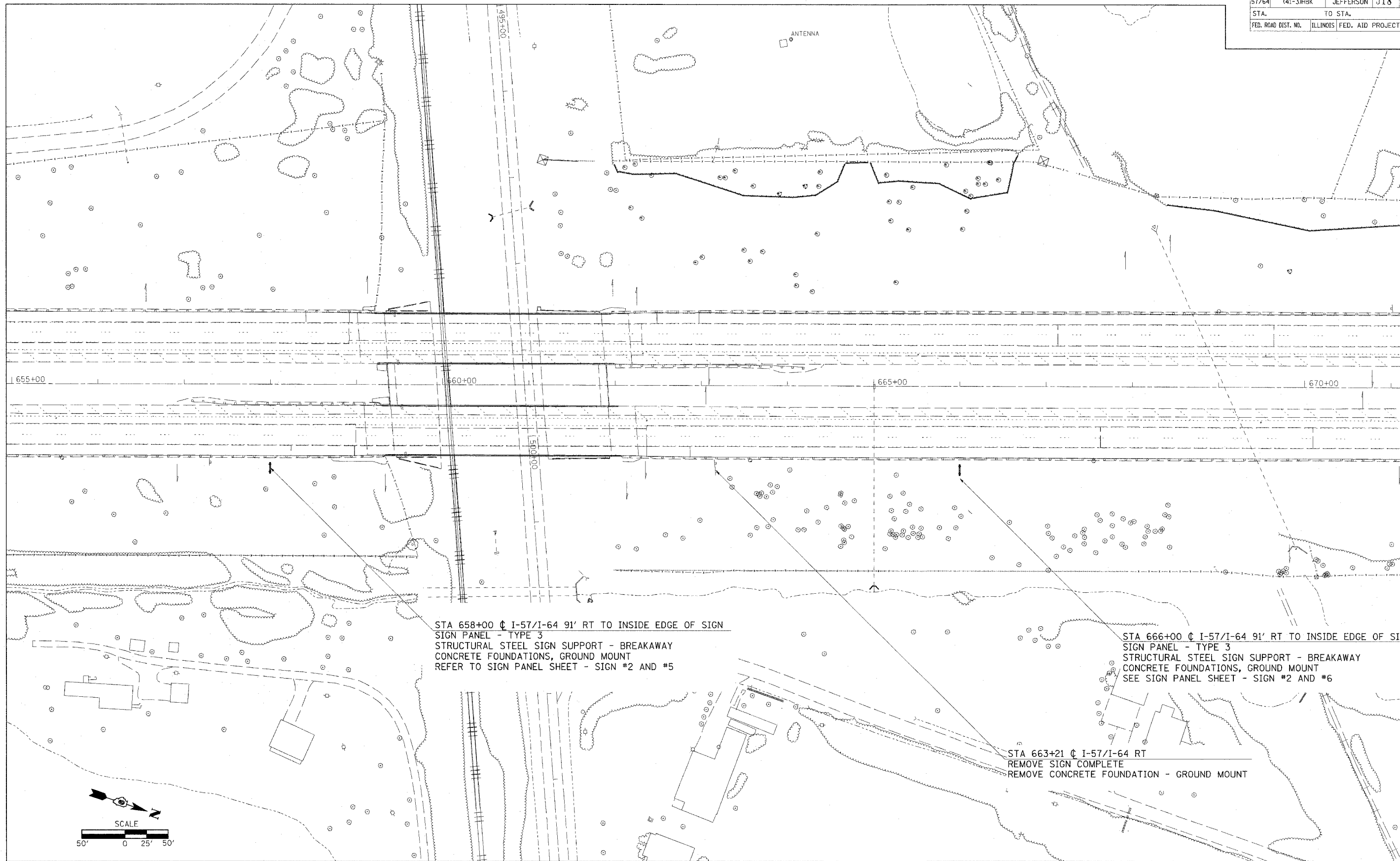
STA 642B+00 ϕ I-57/I-64 42' RT TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 REFER TO SIGN PANEL SHEET - SIGN #2 AND #3

STA 650+00 ϕ I-57/I-64 91' RT TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #4



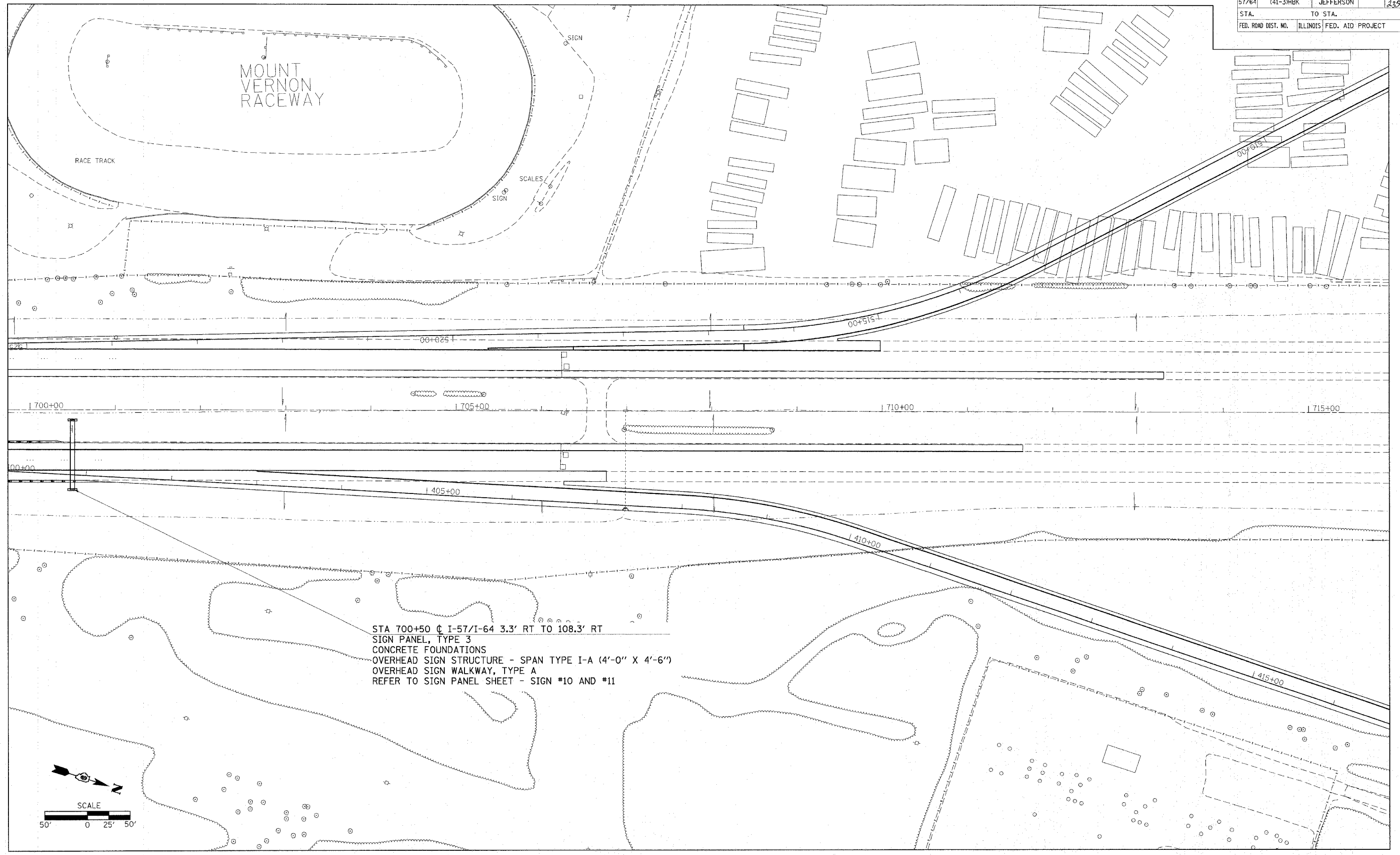
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	441-3HBK	JEFFERSON	518	234
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

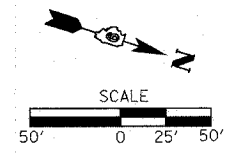


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	235	235
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

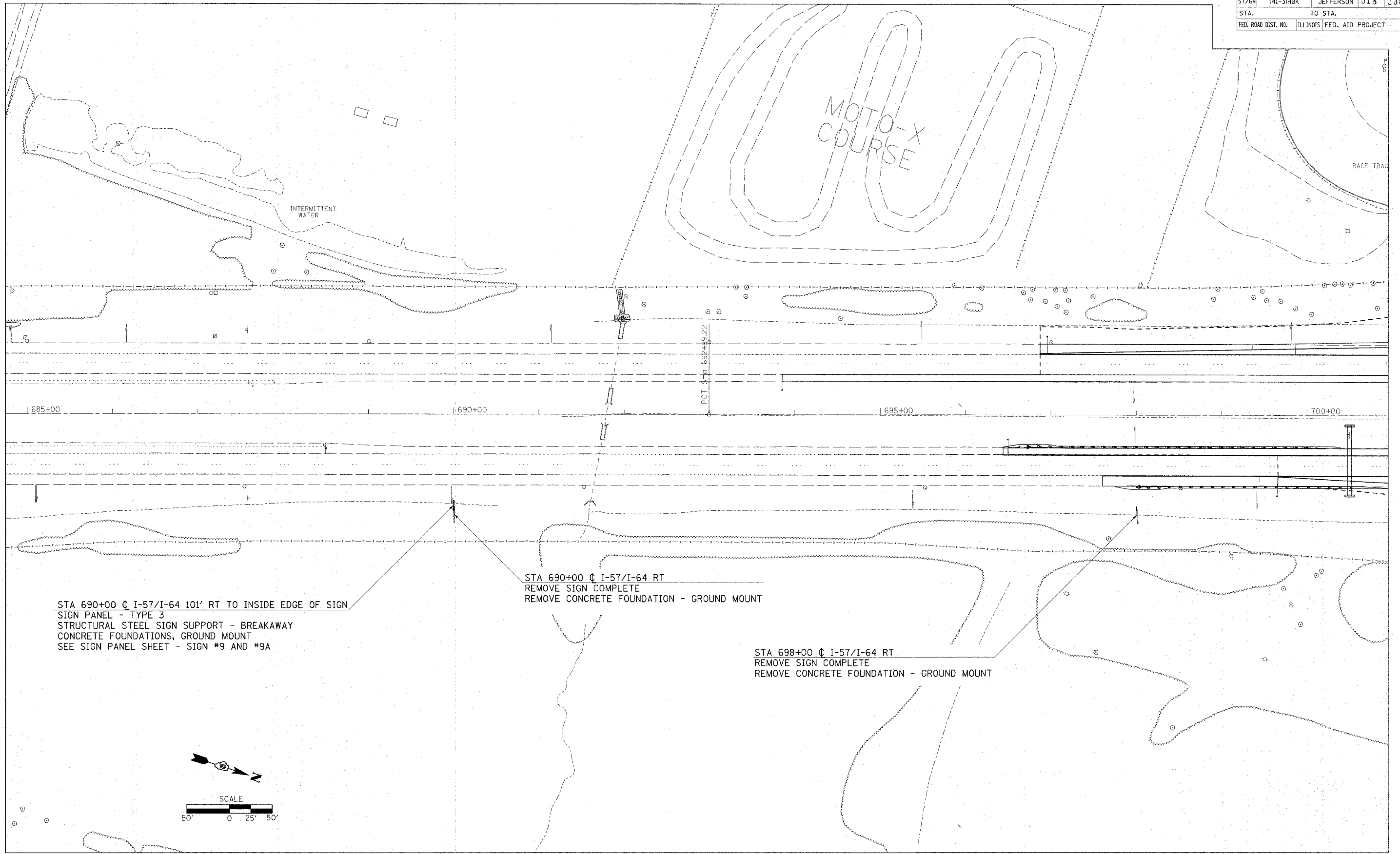


STA 700+50 @ I-57/I-64 3.3' RT TO 108.3' RT
 SIGN PANEL, TYPE 3
 CONCRETE FOUNDATIONS
 OVERHEAD SIGN STRUCTURE - SPAN TYPE I-A (4'-0" X 4'-6")
 OVERHEAD SIGN WALKWAY, TYPE A
 REFER TO SIGN PANEL SHEET - SIGN #10 AND #11



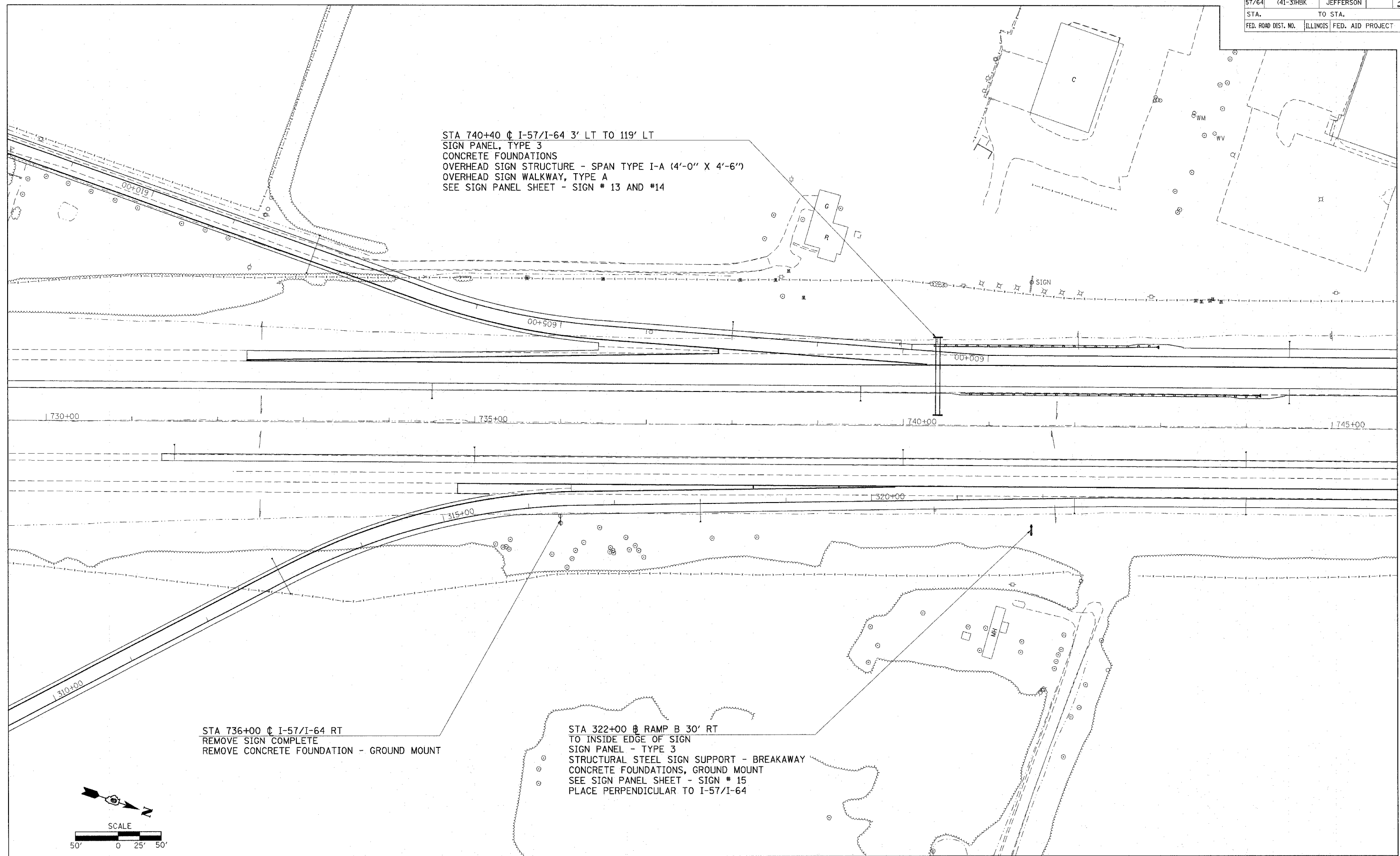
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 jason.l...

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	41-3HBK	JEFFERSON	518	236
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



03 JUN 2007 09:05 AM
 58.0000' / IN.
 KST

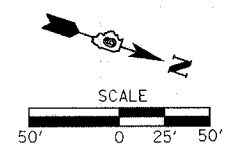
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		237
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



STA 740+40 C I-57/I-64 3' LT TO 119' LT
 SIGN PANEL, TYPE 3
 CONCRETE FOUNDATIONS
 OVERHEAD SIGN STRUCTURE - SPAN TYPE I-A (4'-0" X 4'-6")
 OVERHEAD SIGN WALKWAY, TYPE A
 SEE SIGN PANEL SHEET - SIGN # 13 AND #14

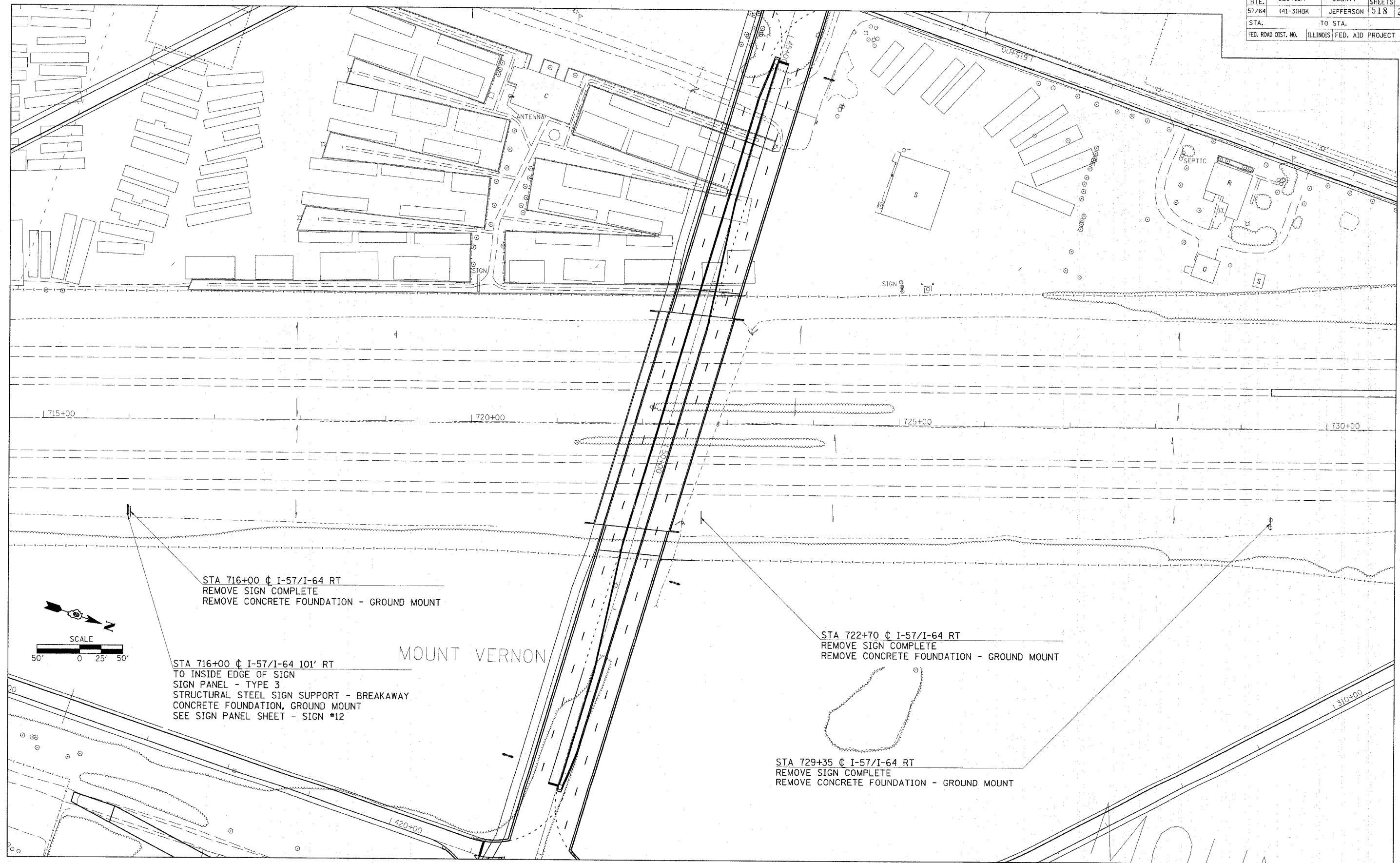
STA 736+00 C I-57/I-64 RT
 REMOVE SIGN COMPLETE
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 322+00 B RAMP B 30' RT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN # 15
 PLACE PERPENDICULAR TO I-57/I-64



5/11/2007
 c:\projects\98963\98963.dwg
 4/4/98 7:11
 rasmil

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	41-3MBK	JEFFERSON	318	238
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

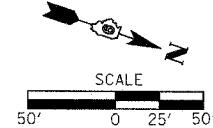


STA 716+00 @ I-57/I-64 RT
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 716+00 @ I-57/I-64 101' RT
TO INSIDE EDGE OF SIGN
SIGN PANEL - TYPE 3
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
CONCRETE FOUNDATION, GROUND MOUNT
SEE SIGN PANEL SHEET - SIGN #12

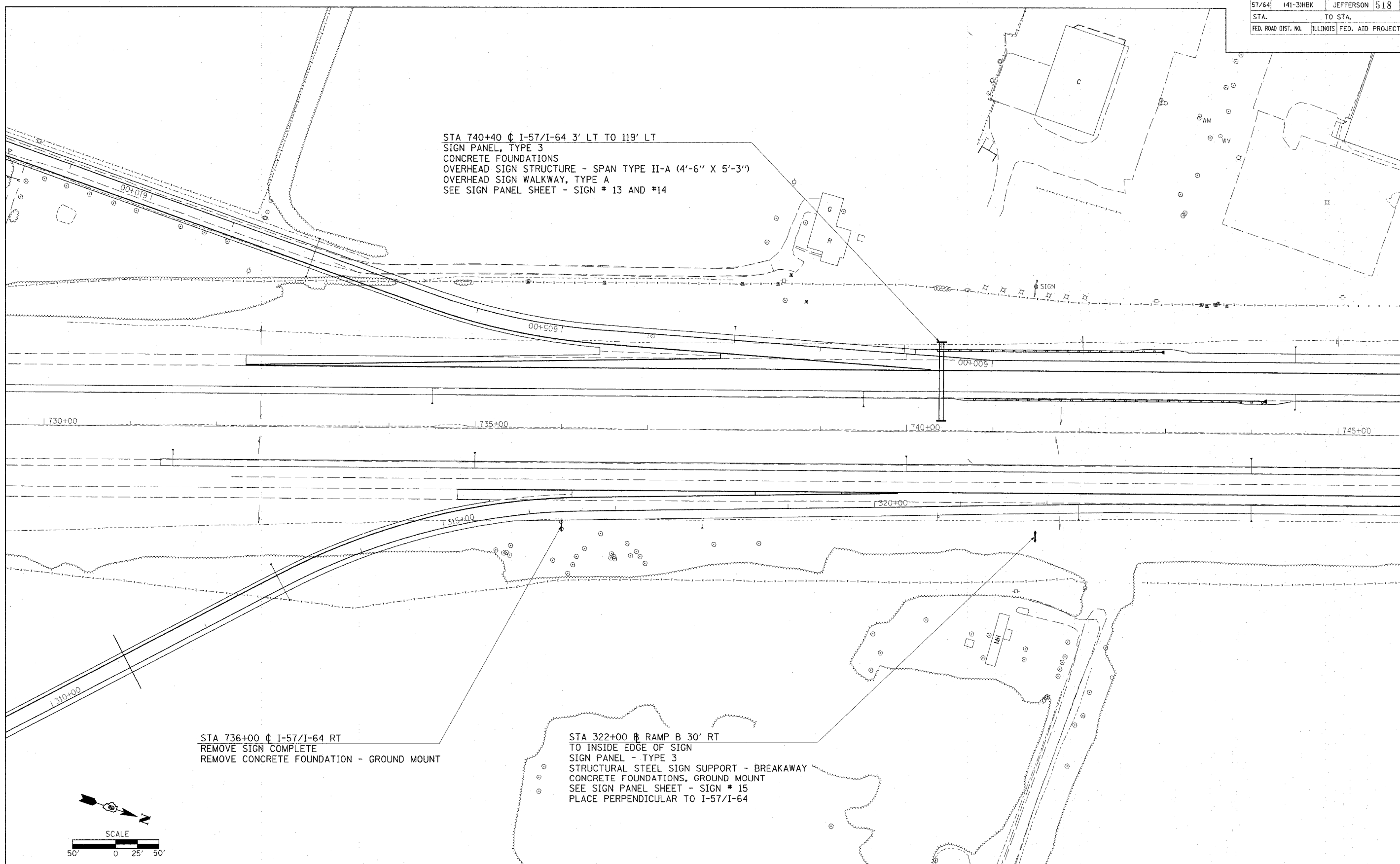
STA 722+70 @ I-57/I-64 RT
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 729+35 @ I-57/I-64 RT
REMOVE SIGN COMPLETE
REMOVE CONCRETE FOUNDATION - GROUND MOUNT



03/21/2007, 11:05 AM
A:\p\cadd\98963\98963.dwg
KMS

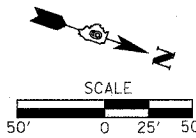
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	239
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STA 740+40 C I-57/I-64 3' LT TO 119' LT
 SIGN PANEL, TYPE 3
 CONCRETE FOUNDATIONS
 OVERHEAD SIGN STRUCTURE - SPAN TYPE II-A (4'-6" X 5'-3")
 OVERHEAD SIGN WALKWAY, TYPE A
 SEE SIGN PANEL SHEET - SIGN # 13 AND #14

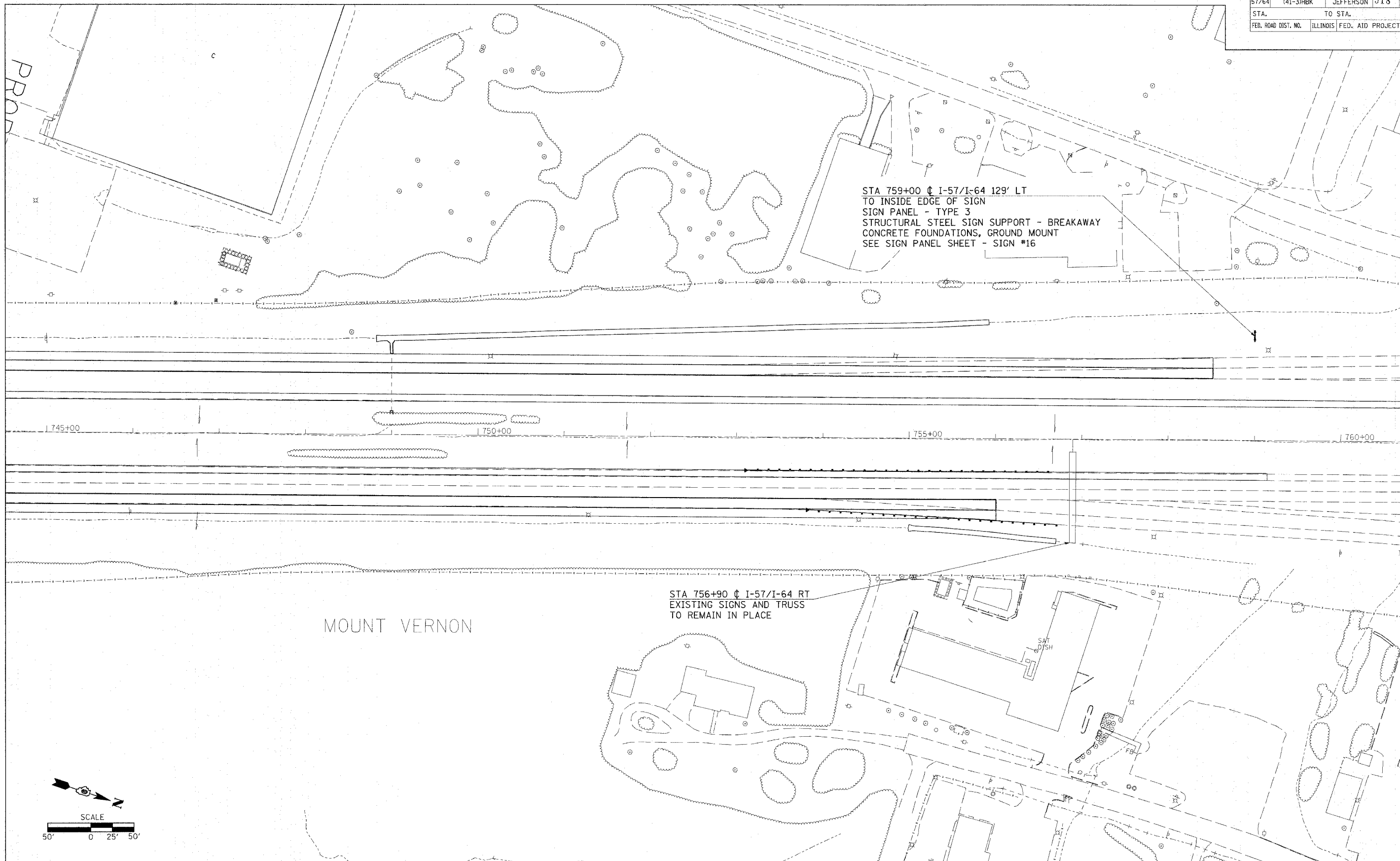
STA 736+00 C I-57/I-64 RT
 REMOVE SIGN COMPLETE
 REMOVE CONCRETE FOUNDATION - GROUND MOUNT

STA 322+00 B RAMP B 30' RT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN # 15
 PLACE PERPENDICULAR TO I-57/I-64



03/21/2007 09:05 AM
 50.0000 / IN.
 50.0000 / IN.
 50.0000 / IN.

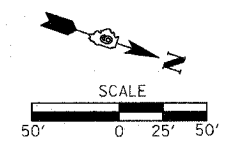
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-31HBK	JEFFERSON	118	240
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STA 759+00 ϕ I-57/I-64 129' LT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #16

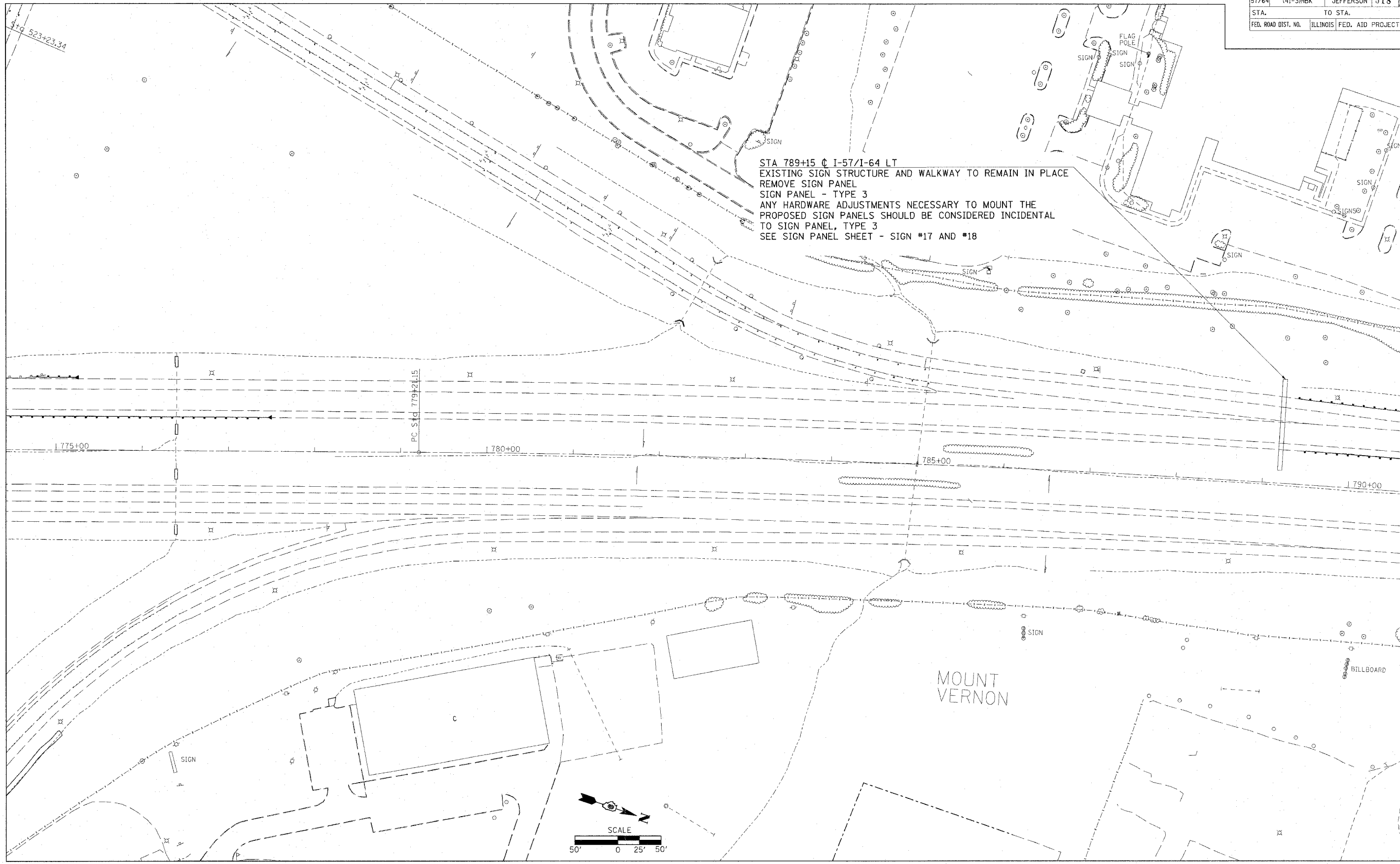
STA 756+90 ϕ I-57/I-64 RT
 EXISTING SIGNS AND TRUSS
 TO REMAIN IN PLACE

MOUNT VERNON



2/21/2007 09:05 AM
 58.0000 / IN.
 K&S

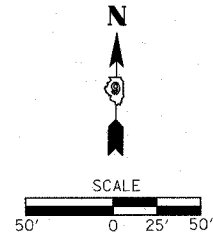
CONTRACT NO. 98963			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518 241
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



STA 789+15 @ I-57/I-64 LT
 EXISTING SIGN STRUCTURE AND WALKWAY TO REMAIN IN PLACE
 REMOVE SIGN PANEL
 SIGN PANEL - TYPE 3
 ANY HARDWARE ADJUSTMENTS NECESSARY TO MOUNT THE
 PROPOSED SIGN PANELS SHOULD BE CONSIDERED INCIDENTAL
 TO SIGN PANEL, TYPE 3
 SEE SIGN PANEL SHEET - SIGN #17 AND #18

8/31/2007 9:45 AM
 C:\WORK\41-3\318\1101\DWG\518241.dwg
 5/10/2007 / JN
 K&S

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-3HBK	JEFFERSON	518	242
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



P.T. STA. = 306+13.40

STA 56+30 ϕ VETERANS MEMORIAL 55' LT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #24

STA 51+50 ϕ VETERANS MEMORIAL 55' LT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #22

STA 45+35 ϕ VETERANS MEMORIAL 55' LT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #20

STA 43+00 ϕ VETERANS MEMORIAL 60' RT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #19

STA 47+70 ϕ VETERANS MEMORIAL 60' RT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #21

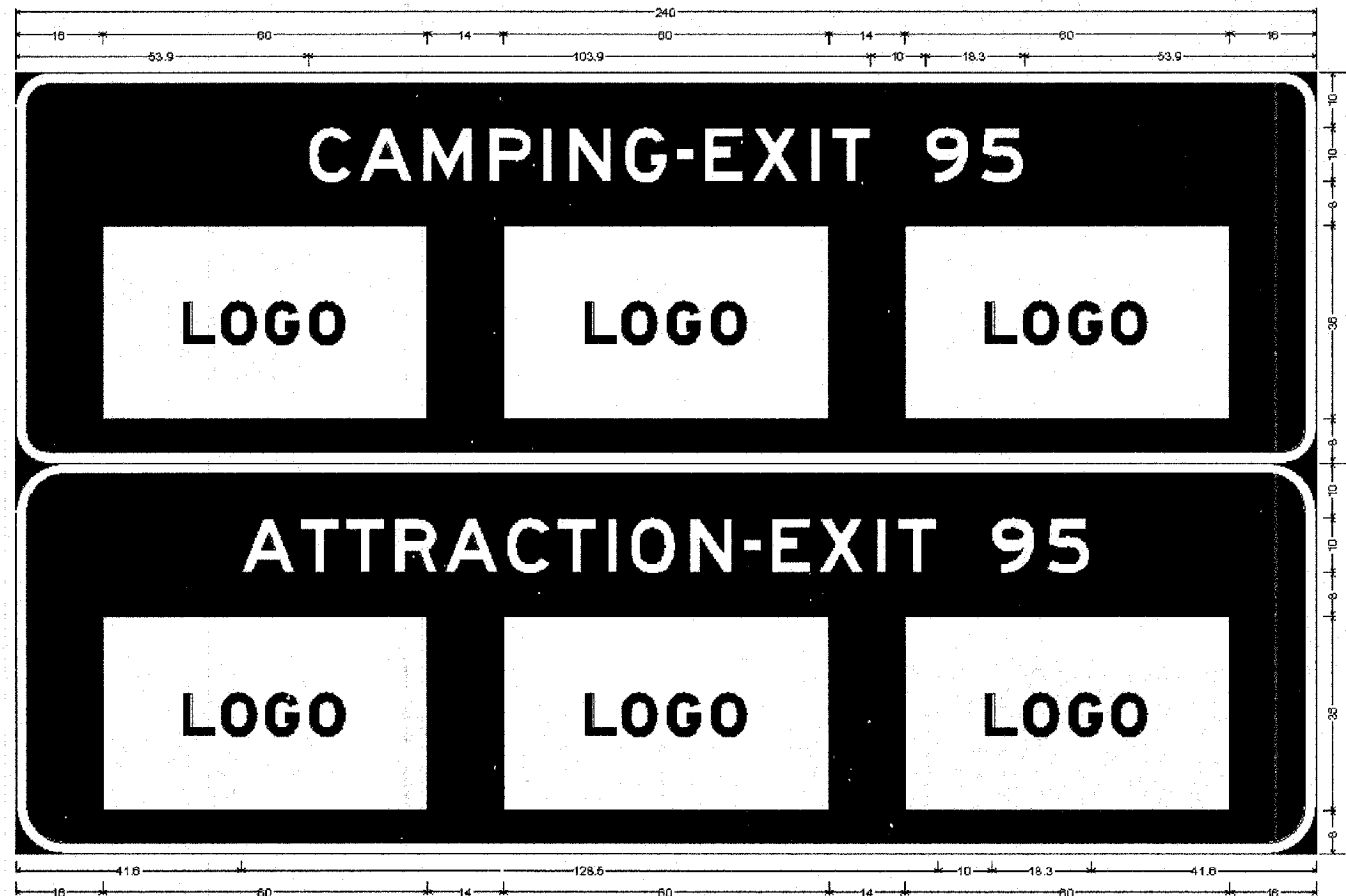
STA 54+00 ϕ VETERANS MEMORIAL 60' RT
 TO INSIDE EDGE OF SIGN
 SIGN PANEL - TYPE 3
 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY
 CONCRETE FOUNDATIONS, GROUND MOUNT
 SEE SIGN PANEL SHEET - SIGN #23

EXIST. CURVE RAMP-C
 PI STA. = 504+92.65
 Δ = 29° 08' 19" (LT)
 D = 12° 19' 18" (RT)
 R = 465.00'
 T = 420.86'
 E = 15.45'
 T.M. =
 S.E. RUN =
 P.C. STA. = 503+71.79
 P.T. STA. = 506+08.28

2012/12/07 09:55 AM
 50428108 / IN
 Key

F.A.I. RIE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	441-3/HBK	JEFFERSON	518	243
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGN NO. 1
STA 634B+00 RT C 157/I64



0.0" Radius, 2.0" Border, White on Blue;
 *CAMPING-EXIT 95" E Mod 2K;
 9.0" Radius, 2.0" Border, White on Blue;
 *ATTRACTION-EXIT 95" E Mod 2K;

Table of letter and object lefts.

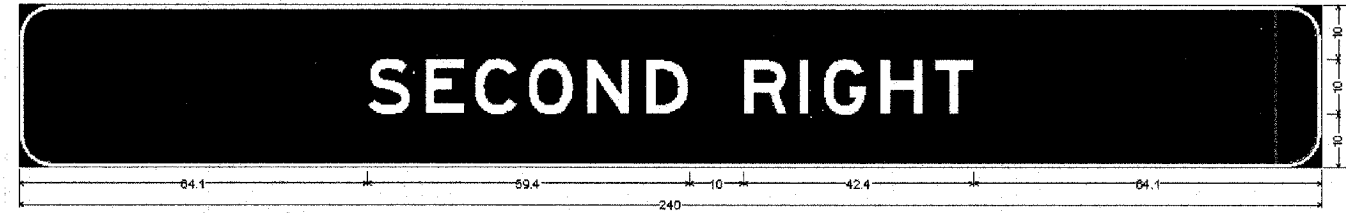
C	A	M	P	I	N	O	-	E	X	I	T	9	S
53.9	63.3	75.1	87.3	97.1	101.9	112.4	121.8	127.0	136.8	149.8	160.4	167.8	178.0

16.0	90.0	184.0
------	------	-------

A	T	R	A	C	T	I	O	N	-	E	X	I	T	9	S	
41.8	52.8	60.8	69.9	79.1	90.6	99.9	109.1	113.8	124.3	134.1	139.3	149.1	158.9	162.8	180.1	190.3

16.0	90.0	184.0
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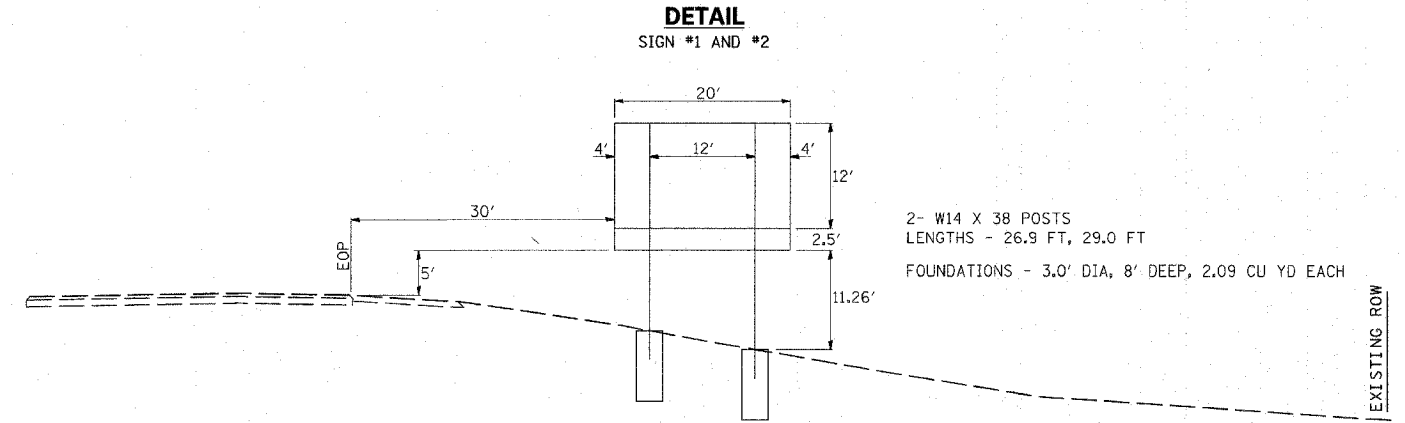
SIGN NO. 2
 STA 634B+00 RT C 157/I64
 STA 642B+00 RT C 157/I64
 STA 658+00 RT C 157/I64
 STA 666+00 RT C 157/I64
 STA 682+00 RT C 157/I64



8.0" Radius, 1.0" Border, White on Blue;
 *SECOND RIGHT" E Mod 2K;

Table of letter and object lefts.

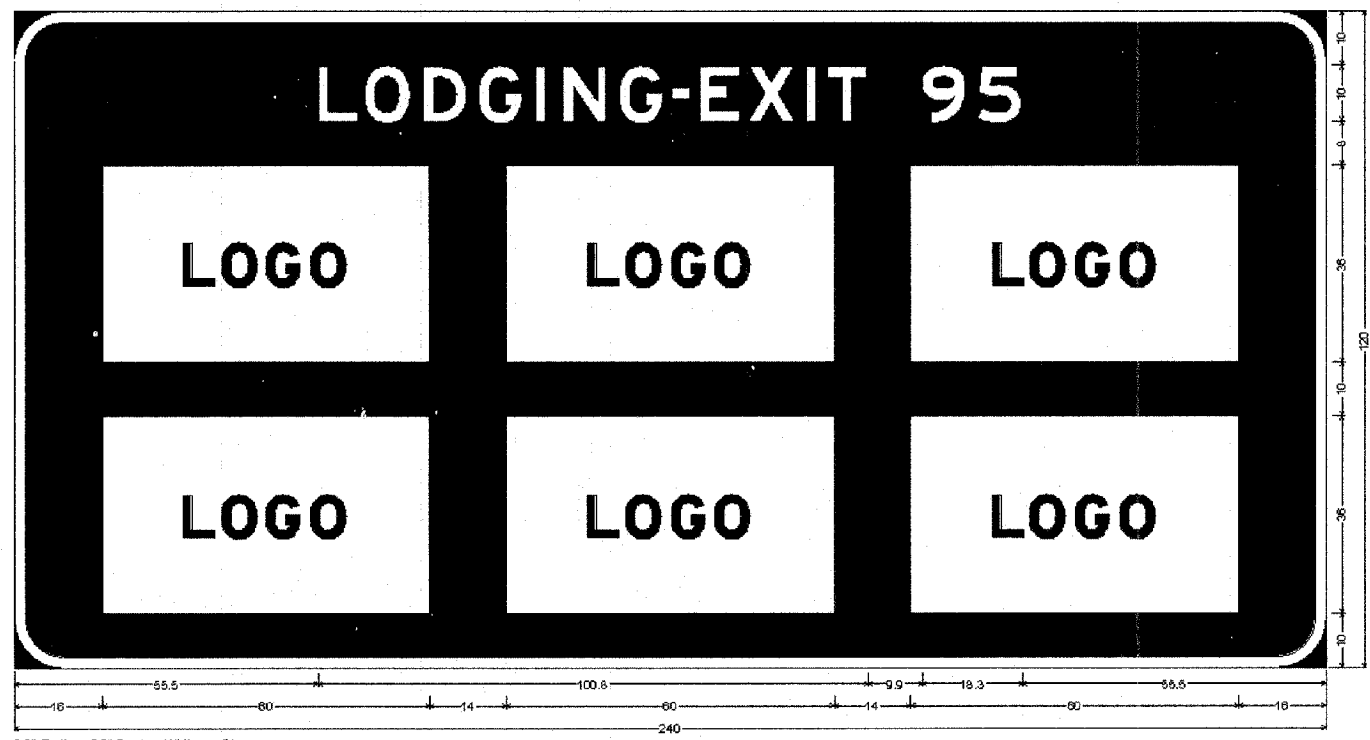
S	E	C	O	R	H	T				
64.1	74.8	83.8	95.9	104.5	116.4	133.9	143.8	149.1	168.6	188.6



PLOT DATE = 03/23/2007 08:33 PM
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 PLOT SCALE = 500.0000 / IN.
 USER NAME = RL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	244
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

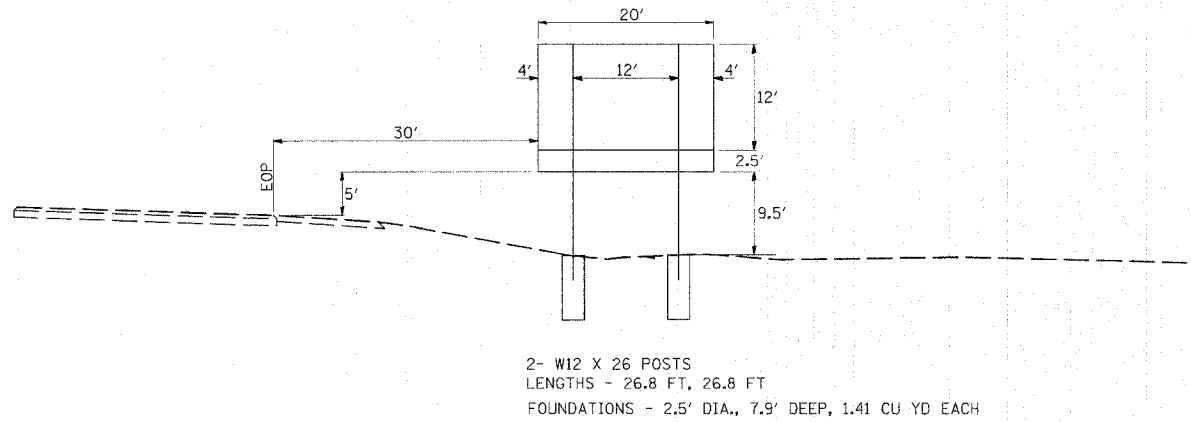
SIGN NO. 3
 STA 642+00 RT C 157/164
 &
 SIGN NO. 5
 STA 658+00 RT C 157/164



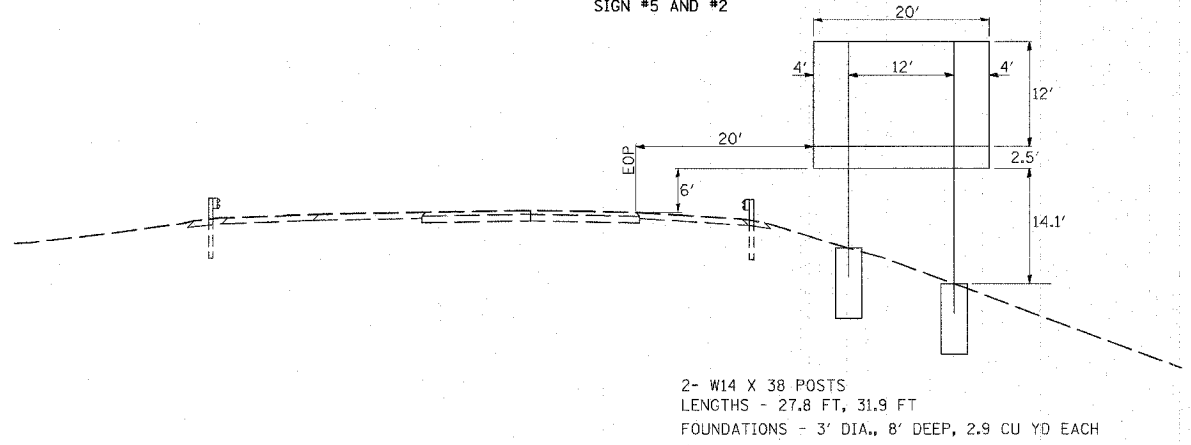
90° Radius, 2.0" Border, White on Blue;
 'LODGING-EXIT 95' E Mod 2K;
 Table of letter and object lefts.

L	O	D	E	X	I	T	9	5					
55.5	64.1	74.9	85.0	95.5	100.3	110.3	120.3	125.4	134.3	145.0	148.8	166.3	176.4

DETAIL
 SIGN #3 AND #2



DETAIL
 SIGN #5 AND #2



PLOT DATE = 03/22/2007 02:33 PM
 PLOT SCALE = 50.0000 / IN.
 USER NAME = RLT

SIGN NO. 6
 STA 666+00 RT C I57/I64
 &
 SIGN NO. 8
 STA 682+00 RT C I57/I64

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64 (4)-3/HBK	JEFFERSON	518	243
STA. TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

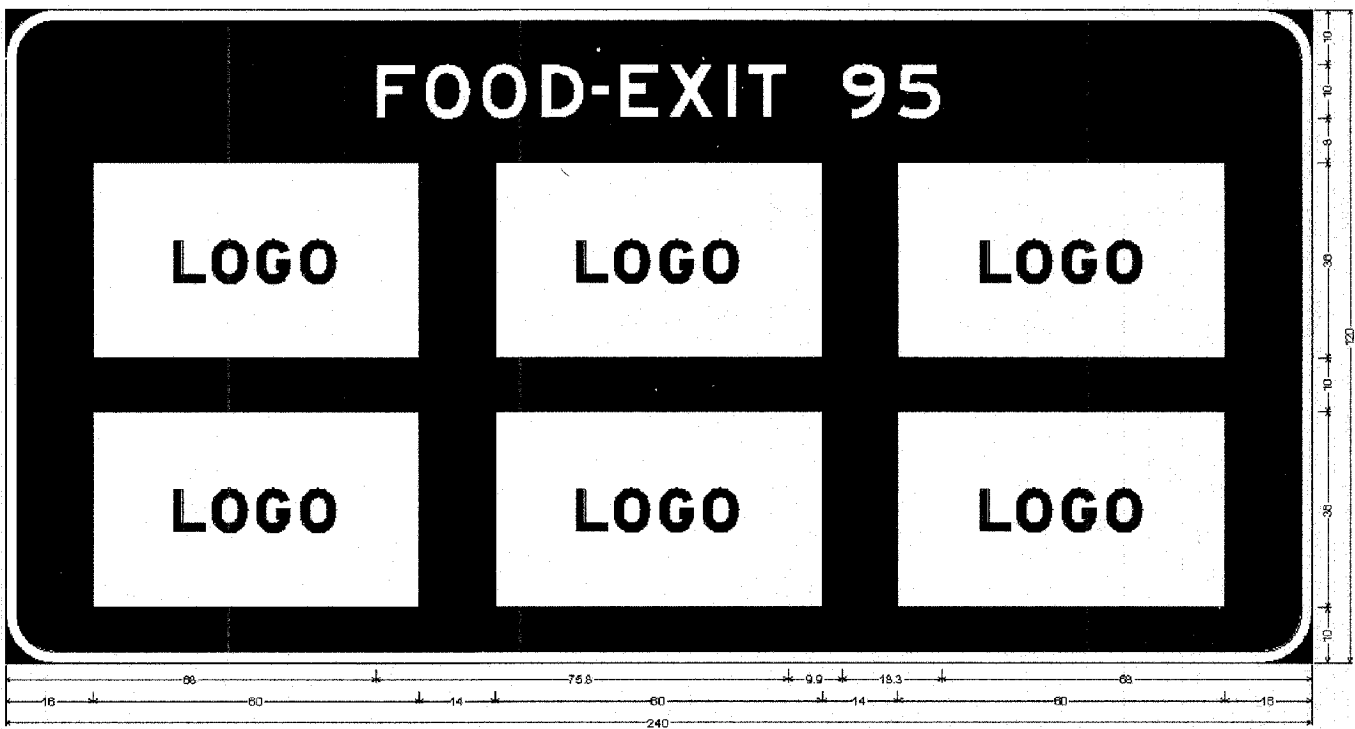
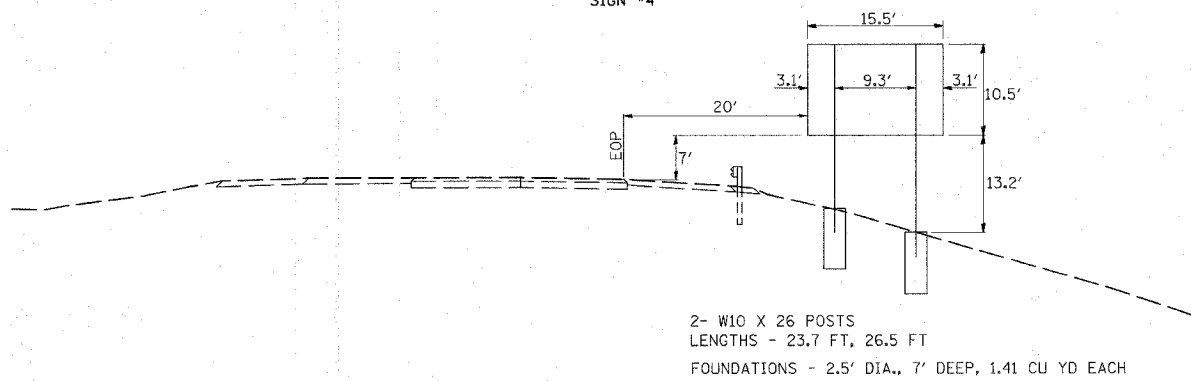
SIGN NO. 4
 STA 650+00 RT C I57/I64



9.0" Radius, 2.0" Border, White on Green;
 "EXIT" E Mod 2K; "94" E Mod 2K;
 12.0" Radius, 2.0" Border, White on Green;
 "Veterans" E Mod 2K; "Memorial Dr" E Mod 2K; "1" E Mod 2K; "MILE" E Mod 2K;
 Table of widths and spaces.

95.1	7.5	1.4	8.6	2.1	2.0	1.9	7.4	15.0	12.1	2.0	13.9	17.0								
37.3	14.6	2.5	10.5	3.2	9.3	3.5	10.6	5.0	8.0	2.4	10.5	4.8	10.5	37.3						
15.6	14.9	4.0	10.8	5.0	17.5	5.0	10.9	5.0	8.0	3.8	3.1	5.0	10.6	6.4	3.3	15.9	13.0	4.8	8.0	15.6
66.6	4.5	15.0	9.3	2.8	2.0	2.8	7.4	1.6	7.4	6.6										

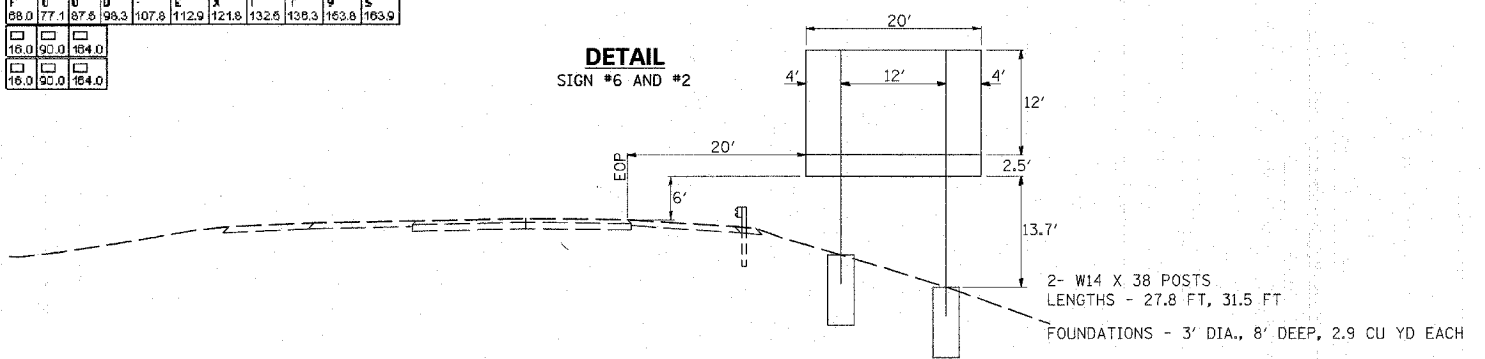
DETAIL SIGN #4



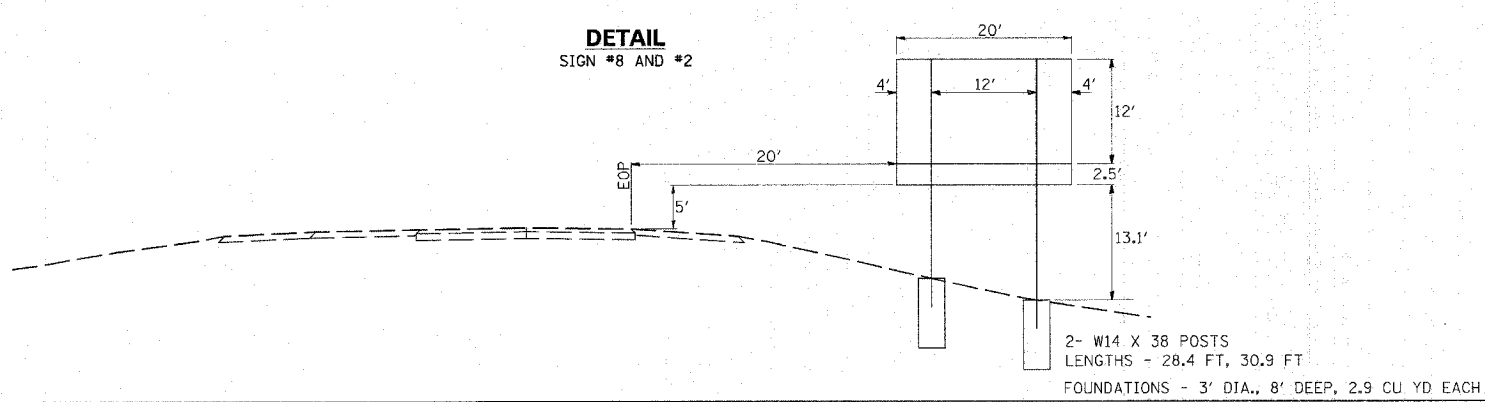
9.0" Radius, 2.0" Border, White on Blue;
 "FOOD-EXIT 95" E Mod 2K;
 Table of letter and object lefts.

F	O	O	D	-	E	X	I	T	9	5
68.0	77.1	87.8	98.3	107.8	112.9	121.8	132.5	138.3	163.8	163.9
16.0	90.0	104.0								
16.0	90.0	104.0								

DETAIL SIGN #6 AND #2



DETAIL SIGN #8 AND #2



PLOT DATE = 03/22/2007, 02:33 PM
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 USER NAME = RL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	246
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SIGN NO. 9
STA 690+00 RT C I57/I64

SIGN NO. 7
STA 674+00 RT C I57/I64

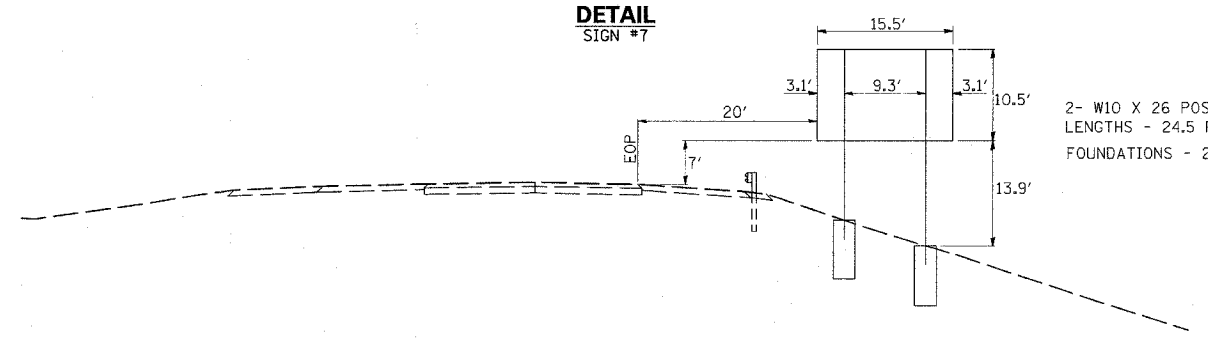


90° Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K, "95" E Mod 2K;
90° Radius, 2.0" Border, White on Green;
"Veterans" E Mod 2K, "Memorial Dr" E Mod 2K, "1/2" E Mod 2K, "MILE" E Mod 2K;

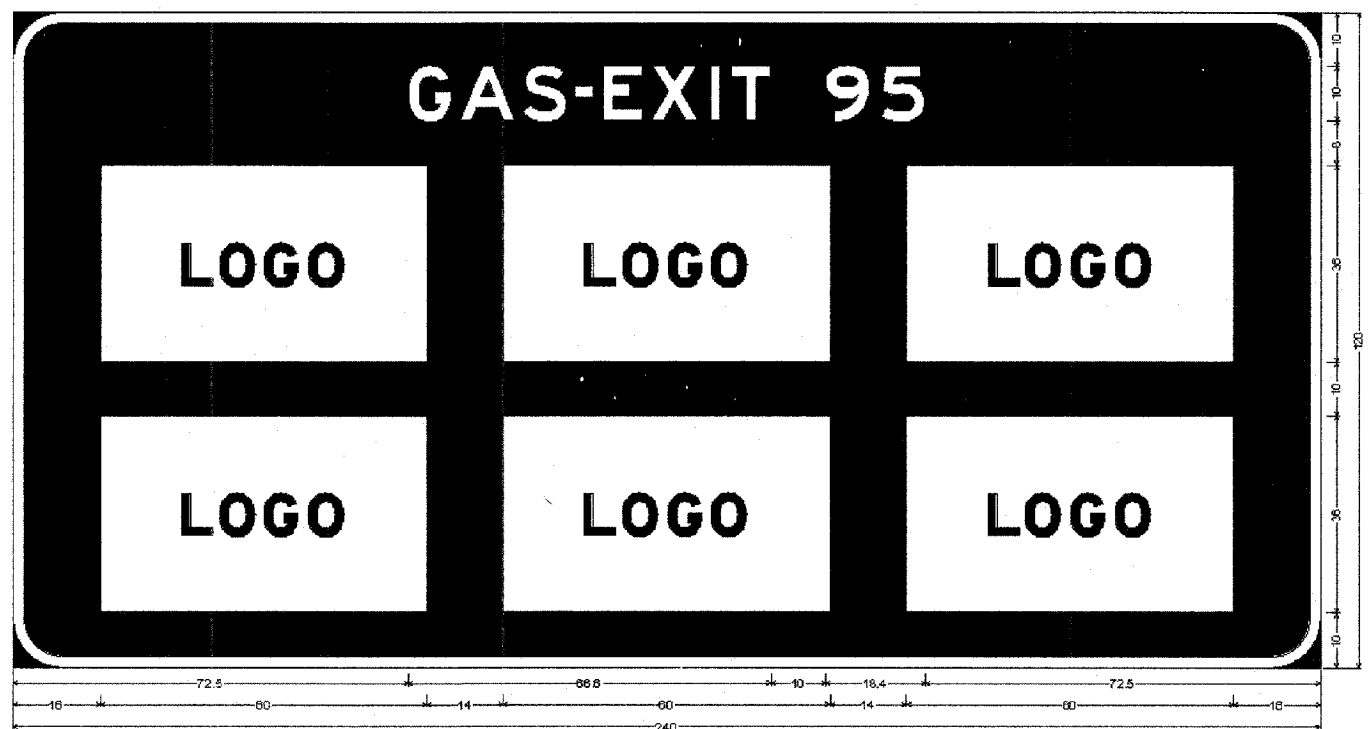
Table of letter and object lefts.

E	X	I	T	9	S
95.8	104.5	115.4	119.1	141.5	156.9
V	e	t	a	r	s
37.3	54.4	69.1	80.1	95.6	106.0
M	e	m	o	r	a
15.6	34.5	50.0	72.6	89.5	100.3
1/2	M	I	L	E	
59.4	94.4	106.4	111.3	120.3	

DETAIL
SIGN #7



2- W10 X 26 POSTS
LENGTHS - 24.5 FT, 27.4 FT
FOUNDATIONS - 2.5" DIA., 7' DEEP, 1.41 CU YD EACH

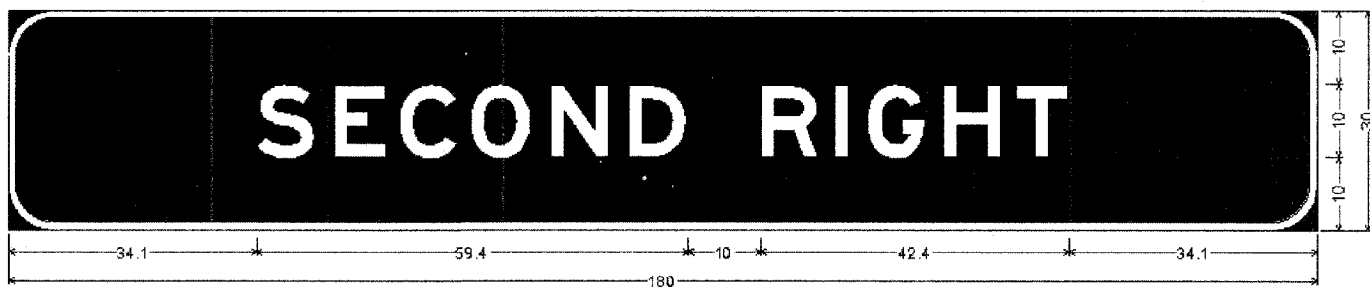


90° Radius, 2.0" Border, White on Blue;
"GAS-EXIT 95" E Mod 2K;

Table of letter and object lefts.

G	A	S	E	X	I	T	9	S
72.6	82.0	93.8	103.1	108.4	117.1	128.0	131.8	149.1
L	O	G	O					
18.0	90.0	104.0						
L	O	G	O					
18.0	90.0	104.0						

SIGN NO. 9A
STA 690+00 RT C I57/I64

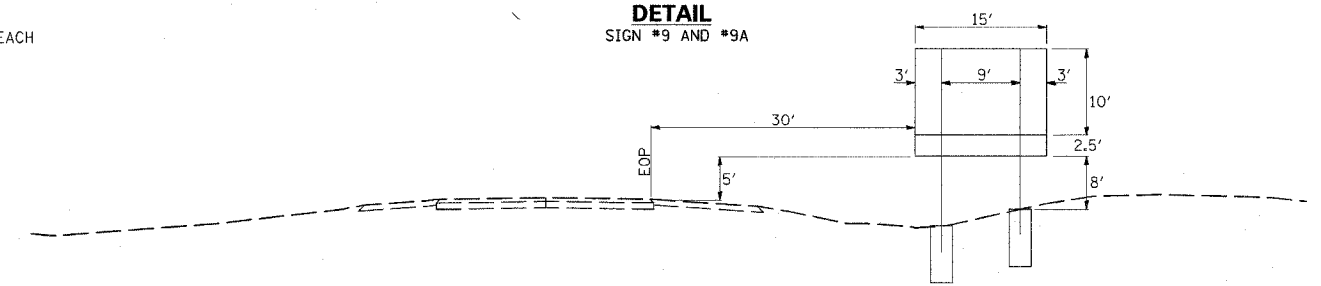


60° Radius, 1.0" Border, White on Blue;
"SECOND RIGHT" E Mod 2K;

Table of letter and object lefts.

S	E	C	O	N	D	R	I	G	H	T
34.1	44.8	53.8	63.8	74.5	85.4	103.5	113.8	118.1	128.6	138.5

DETAIL
SIGN #9 AND #9A

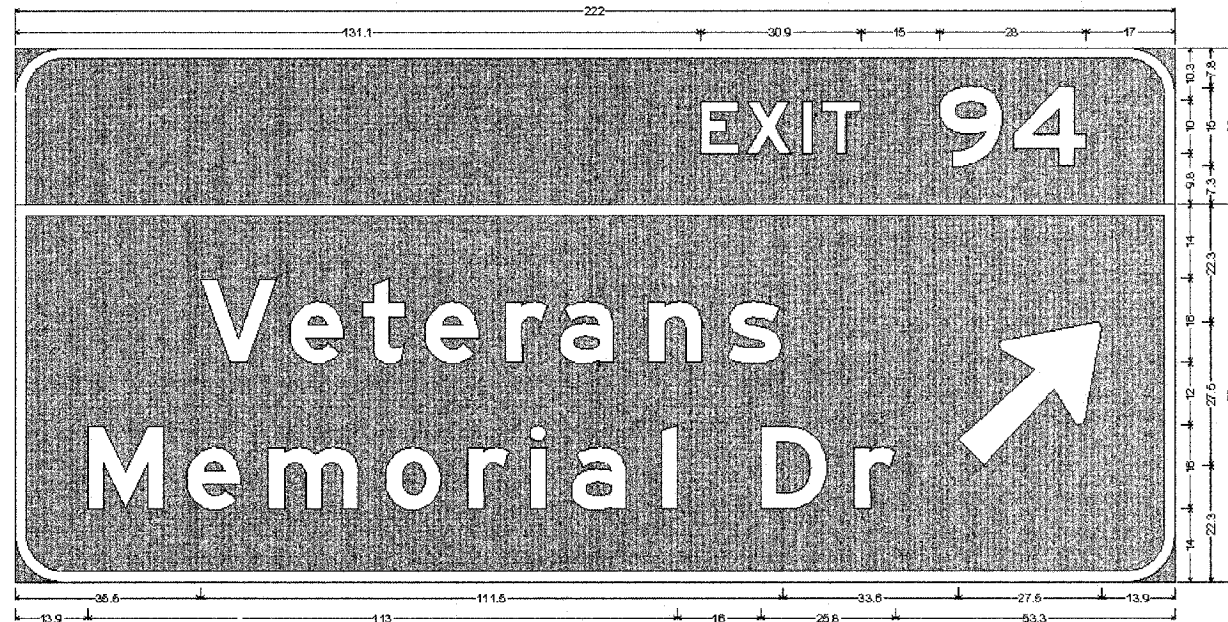


2- W10 X 22 2 POSTS
LENGTHS - 23.4 FT, 21.4 FT
FOUNDATIONS - 2.5" DIA., 6.5" DEEP, 1.18 CU YD EACH

PLOT DATE = 05/22/2007 09:39 PM
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USER NAME = RL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	141-3)HBK	JEFFERSON	518	247
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN NO. 10
STA 700+50 RT ϕ I57/164
TRUSS SIGN

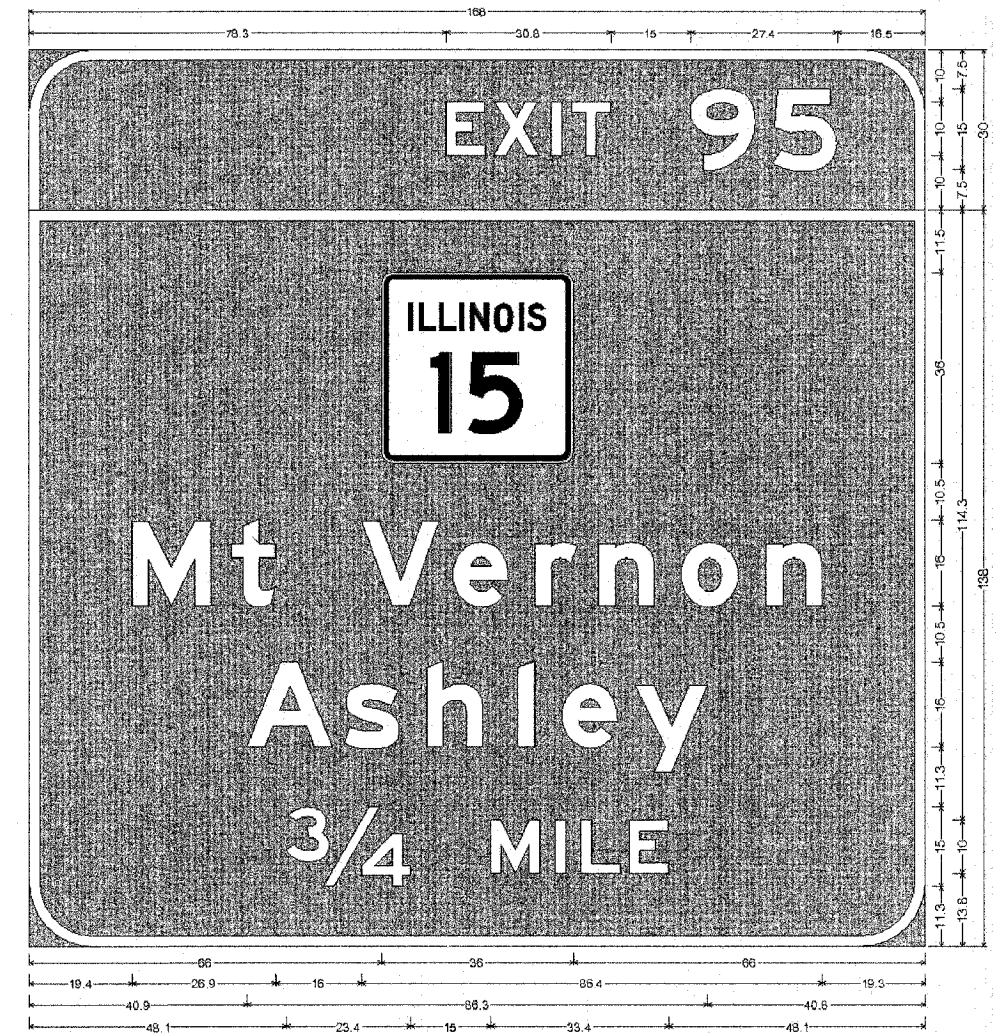


9.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "94" E Mod 2K;
9.0" Radius, 2.0" Border, White on Green;
"Veterans" E Mod 2K; "Memorial Dr" E Mod 2K;

Table of widths and spaces:

E	X	I	T	9	4	V	E	T	E	R	A	N	S	M	E	M	O	R	I	A	L	D	R
131.1	7.5	1.4	8.8	2.1	2.0	1.9	7.4	16.0	12.1	2.0	13.9	17.0											
36.6	14.8	2.3	10.5	3.3	3.3	3.8	10.6	5.0	6.0	2.4	10.5	6.5	10.5	4.8	10.6	33.6	27.5	13.9					
M	A	R	S	M	E	M	O	R	I	A	L	D	R										
13.9	14.9	4.0	10.5	5.0	17.6	5.0	10.9	4.9	8.0	3.9	3.1	5.0	10.5	5.5	3.1	18.0	13.0	4.8	6.0	53.4			

SIGN NO. 11
STA 700+50 RT ϕ I57/164
TRUSS SIGN

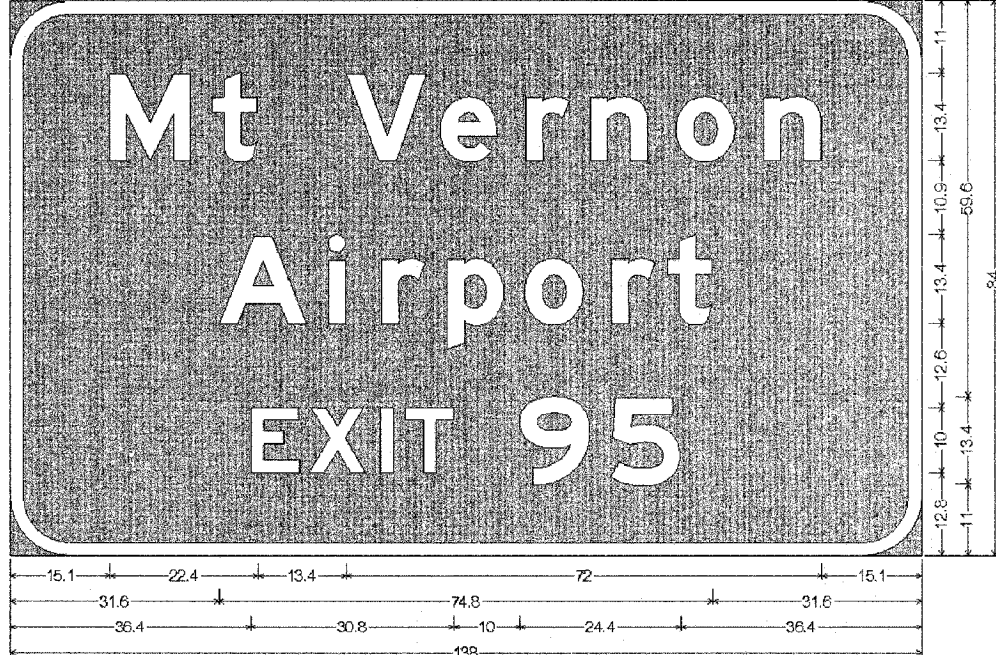


12.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "95" E Mod 2K;
12.0" Radius, 2.0" Border, White on Green;
"Mt Vernon" E Mod 2K; "Ashley" E Mod 2K; "3/4" E Mod 2K; "MILE" E Mod 2K;

Table of widths and spaces:

E	X	I	T	9	5	I	L	L	I	N	O	I	S	1	5	M	T	V	E	R	N	A	S	H	L	E	3	4	M	I	L	E
78.3	7.4	1.4	8.8	2.1	2.0	1.9	7.4	16.0	12.1	3.1	12.3	15.4																				
36.0	38.0	88.0																														
M	A	R	S	M	E	M	O	R	I	A	L	D	R																			
19.4	14.9	3.6	3.4	15.0	14.8	2.5	10.5	5.0	6.0	3.9	10.5	5.0	10.9	4.9	10.5	19.4																
A	R	S	M	E	M	O	R	I	A	L	D	R																				
40.9	15.1	2.1	10.5	5.0	10.5	6.4	3.3	4.9	10.5	3.3	19.9	40.9																				
M	A	R	S	M	E	M	O	R	I	A	L	D	R																			
48.1	23.4	15.0	9.4	2.8	1.9	2.9	7.4	1.5	7.4	48.3																						

SIGN NO. 12
STA 716+00 LT ϕ I57/164

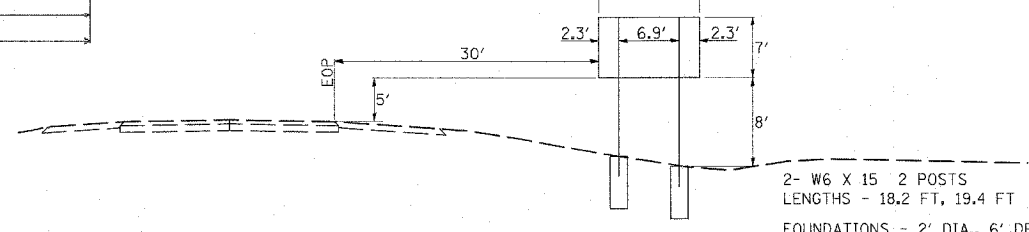


9.0" Radius, 2.0" Border, White on Green;
"Mt Vernon" E Mod 2K; "Airport" E Mod 2K; "EXIT" E Mod 2K; "95" E Mod 2K;

Table of widths and spaces:

M	A	R	S	M	E	M	O	R	I	A	L	D	R																			
15.1	12.4	3.1	6.9	13.4	12.3	1.9	8.9	4.1	6.6	3.3	8.8	4.1	9.0	4.1	8.9	15.1																
A	R	S	M	E	M	O	R	I	A	L	D	R																				
31.6	13.5	3.1	2.8	5.3	6.6	3.3	8.8	2.9	9.0	4.1	6.8	1.6	7.0	31.6																		
E	X	I	T	9	5	M	T	V	E	R	N	A	S	H	L	E																
36.4	7.4	1.4	8.8	2.0	1.8	7.4	10.0	10.8	2.8	10.8	36.4																					

DETAIL
SIGN #12

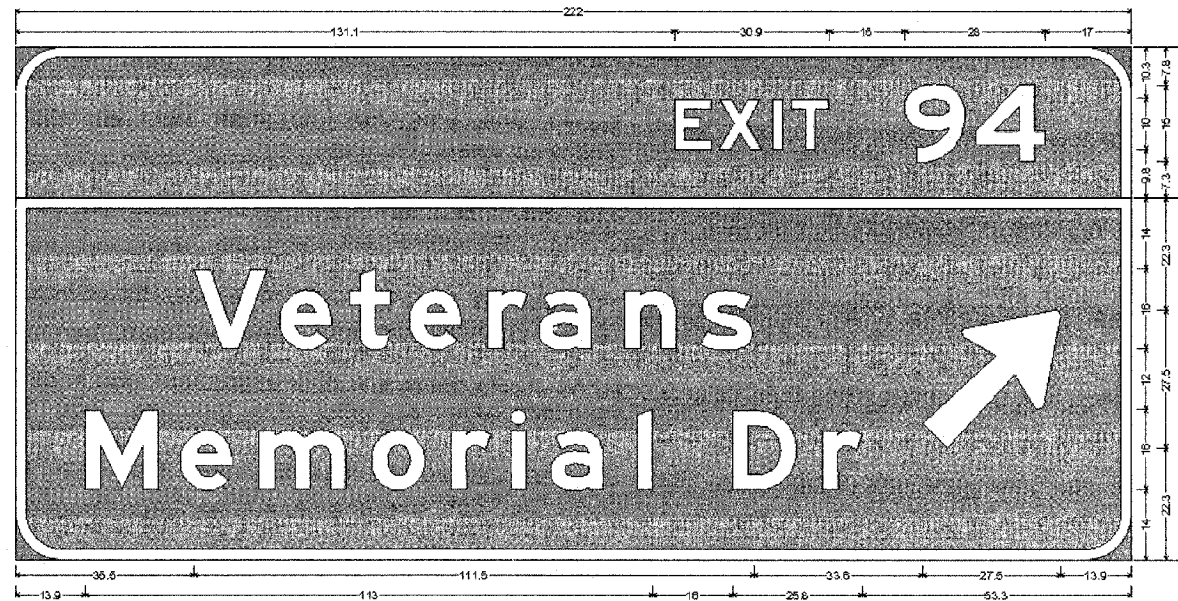


2- W6 X 15 2 POSTS
LENGTHS - 18.2 FT, 19.4 FT
FOUNDATIONS - 2' DIA., 6' DEEP, 0.70 CU YD EACH

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	441-318BK	JEFFERSON	518	248
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SIGN NO. 13
STA 740+40 LT ϕ I57/I64
TRUSS SIGN



9.0" Radius, 2.0" Border, White on Green;
"EXIT" E Mod 2K; "94" E Mod 2K;
9.0" Radius, 2.0" Border, White on Green;
"Veterans" E Mod 2K; "Memorial Dr" E Mod 2K;
Table of widths and spaces:

131.1	7.5	1.4	0.8	2.1	2.0	1.9	7.4	15.0	12.1	2.0	13.9	17.0								
35.5	14.8	2.3	10.6	3.3	8.3	3.8	10.6	6.0	8.0	2.4	10.6	6.6	10.6	4.6	10.6	33.9	27.6	13.9		
13.9	14.9	4.0	10.6	6.0	17.6	6.0	10.9	4.9	6.0	3.9	3.1	6.0	10.6	6.6	3.1	18.0	13.0	4.8	8.0	63.4

SIGN NO. 14
STA 740+40 LT ϕ I57/I64
TRUSS SIGN



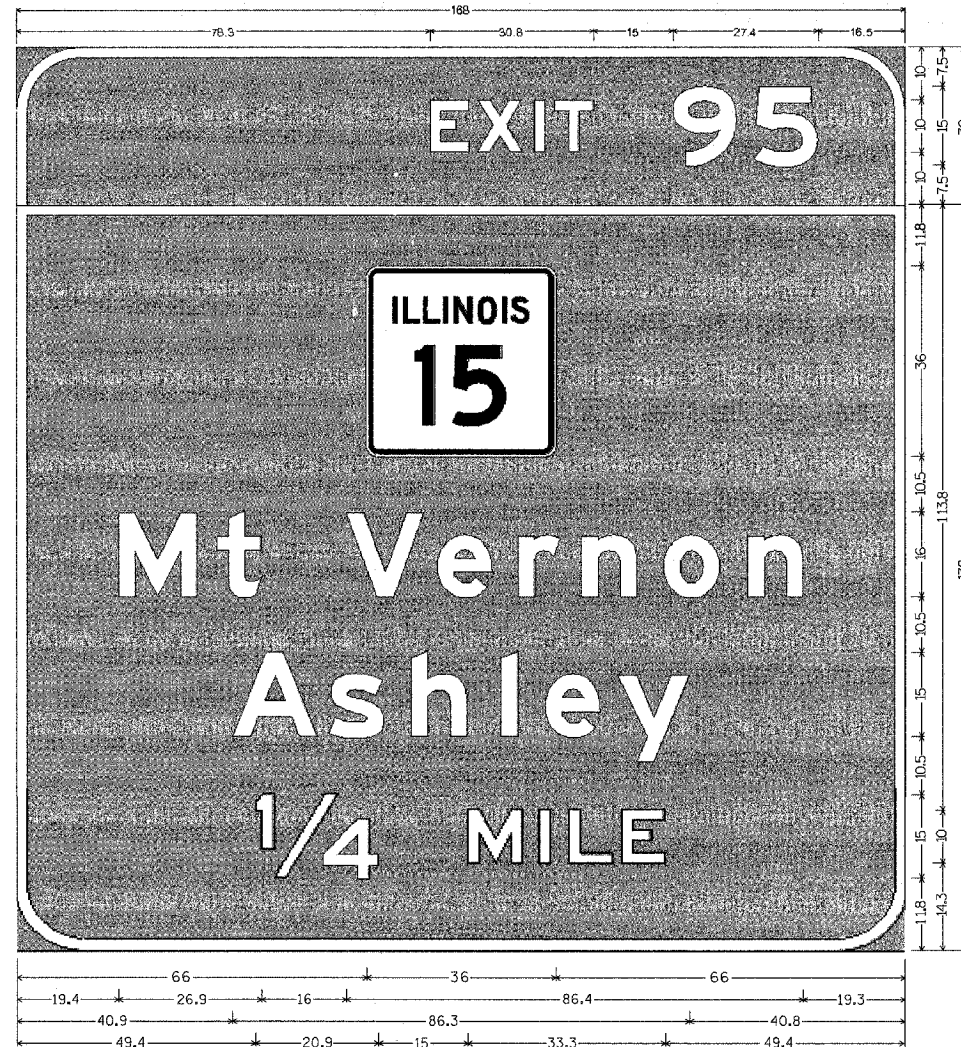
12.0" Radius, 2.0" Border, White on Green;
"NORTH" E Mod 2K; "WEST" E Mod 2K; "Elflingham" E Mod 2K; "East St Louis" E Mod 2K;
12.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod 2K; "EAST" E Mod 2K; "Cairo" E Mod 2K; "Evansville" E Mod 2K;

Table of letter and object lets:

109.3	6.3	2.1	8.8	2.6	2.0	2.0	14.9	12.1	2.7	12.1	116.7																							
60.4	24.0	1.9	2.0	32.8	25.9	12.4																												
16.8	11.8	2.1	10.3	4.9	10.6	6.4	2.1	4.8	10.3	2.1	12.4	4.6	3.7	6.4	2.1	6.3	2.1	5.0	10.3	24.0	15.0	4.0	10.3	3.0	17.5	6.3	10.3	5.0	10.3	6.3	2.1	4.6	10.3	16.8
62.1	2.4	2.4	8.1	1.7	7.4	14.9	4.5	8.0	22.4	15.9	9.3	2.8	2.8	2.4	1.4	1.4	1.8	6.1	62.1															

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	249
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

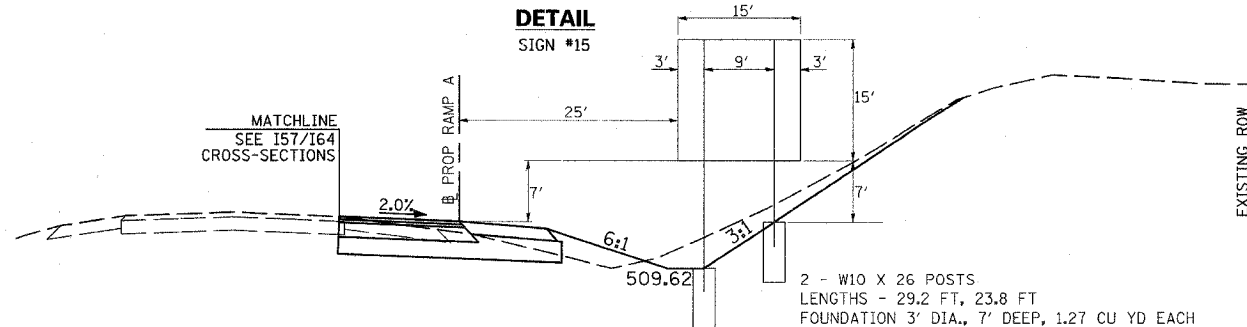
SIGN NO. 15
STA 322+00 RT RAMP A



12.0" Radius, 2.0" Border, White on Green;
 "EXIT" E Mod 2K; "95" E Mod 2K;
 12.0" Radius, 2.0" Border, White on Green;
 "Mt Vernon" E Mod 2K; "Ashley" E Mod 2K; "1/4" E Mod 2K; "MILE" E Mod 2K;
 Table of widths and spaces.

E	X	I	T	P	S	
76.3	7.4	1.4	5.6	2.1	2.0	
1.9	7.4	15.0	12.1	3.1	12.3	
16.4						
Table of letter and object lifts:						
V	E	T	P	S		
37.3	54.4	88.1	60.1	95.6		
106.0	123.0	136.3				
M	O	R	I	A	D	R
15.6	34.5	50.0	72.6	88.5	100.3	108.5
125.4	144.8	162.4				
1/4	M	L	E			
48.1	20.9	15.0	9.4			
2.6	1.9	2.9	7.4			
1.5	7.4	48.3				

DETAIL
SIGN #15



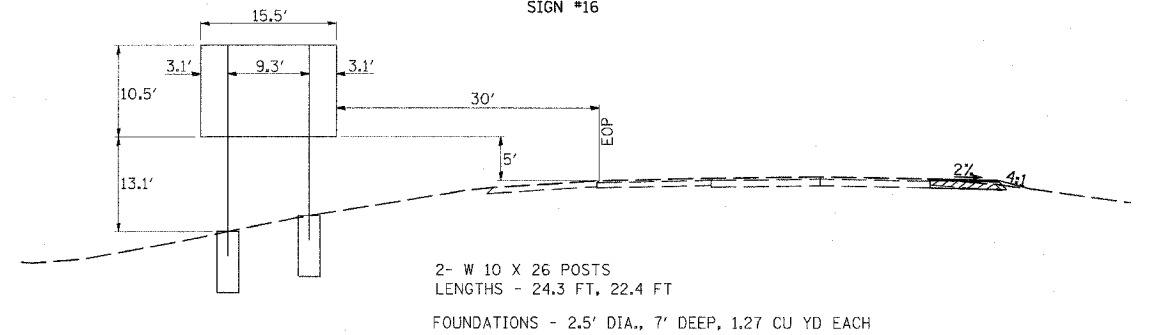
SIGN NO. 16
STA 759+00 LT I57/I64



9.0" Radius, 2.0" Border, White on Green;
 "EXIT" E Mod 2K; "94" E Mod 2K;
 9.0" Radius, 2.0" Border, White on Green;
 "Veterans" E Mod 2K; "Memorial Dr" E Mod 2K; "1/4" E Mod 2K; "MILE" E Mod 2K;
 Table of letter and object lifts:

E	X	I	T	P	S	
95.8	104.5	115.4	119.1	141.5	156.9	
V	E	T	P	S		
37.3	54.4	88.1	60.1	95.6		
106.0	123.0	136.3				
M	O	R	I	A	D	R
15.6	34.5	50.0	72.6	88.5	100.3	108.5
125.4	144.8	162.4				
1/4	M	L	E			
48.1	20.9	15.0	9.4			
2.6	1.9	2.9	7.4			
1.5	7.4	48.3				

DETAIL
SIGN #16

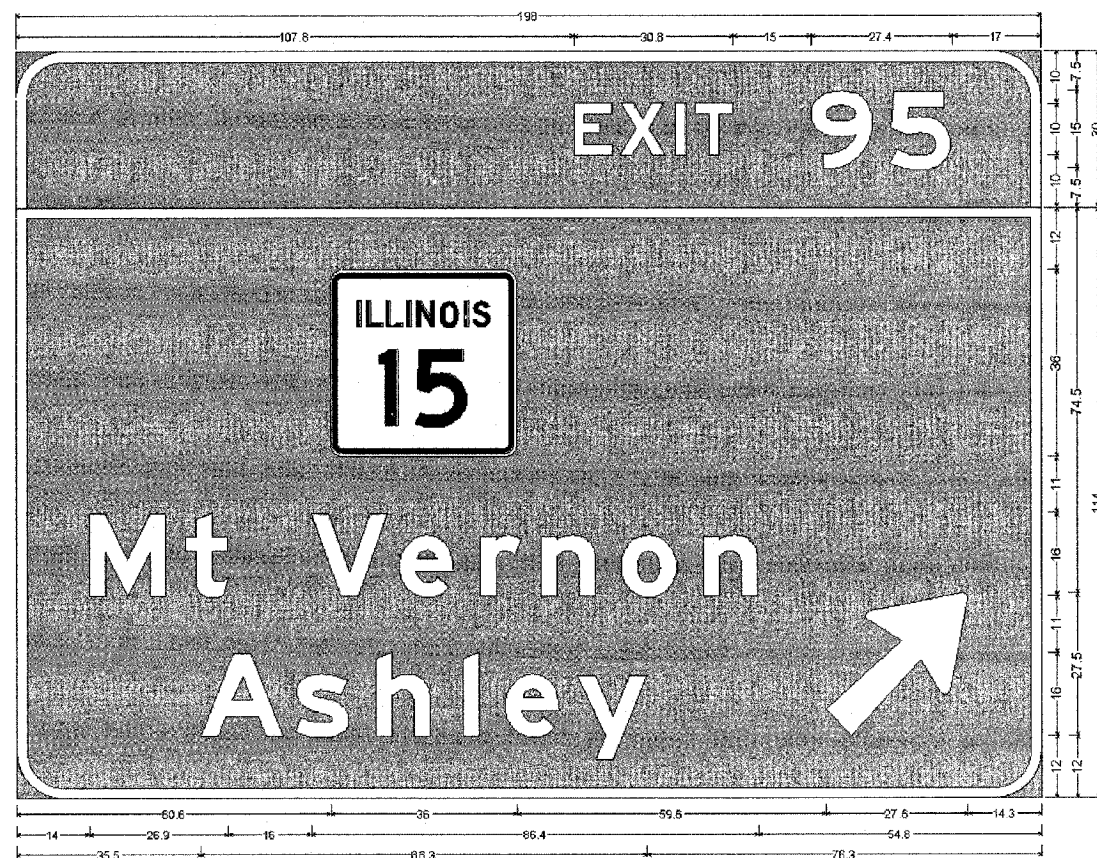


2- W 10 X 26 POSTS
 LENGTHS - 24.3 FT, 22.4 FT
 FOUNDATIONS - 2.5' DIA., 7' DEEP, 1.27 CU YD EACH

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CONTRACT NO. 98963			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
57/64	141-318K	JEFFERSON	518
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

SIGN NO. 17
 STA 789+15 LT ϕ 157/164
 PLACE ON EXISTING TRUSS



9.0" Radius, 2.0" Border, White on Green;
 "EXIT" E Mod 2K; "95" E Mod 2K;
 9.0" Radius, 2.0" Border, White on Green;
 "Mt Vernon" E Mod 2K; "Ashley" E Mod 2K;
 Table of letter and object lefts.

E	X	I	T	9	5
107.8	118.5	127.4	131.1	153.5	168.9
60.6	156.3				
M	t	V	e	r	n
14.0	32.5	66.9	74.0	89.5	101.4
A	s	h	l	e	y
35.3	53.3	69.3	85.3	94.4	108.1

SIGN NO. 18
 STA 789+15 LT ϕ 157/164
 PLACE ON EXISTING TRUSS



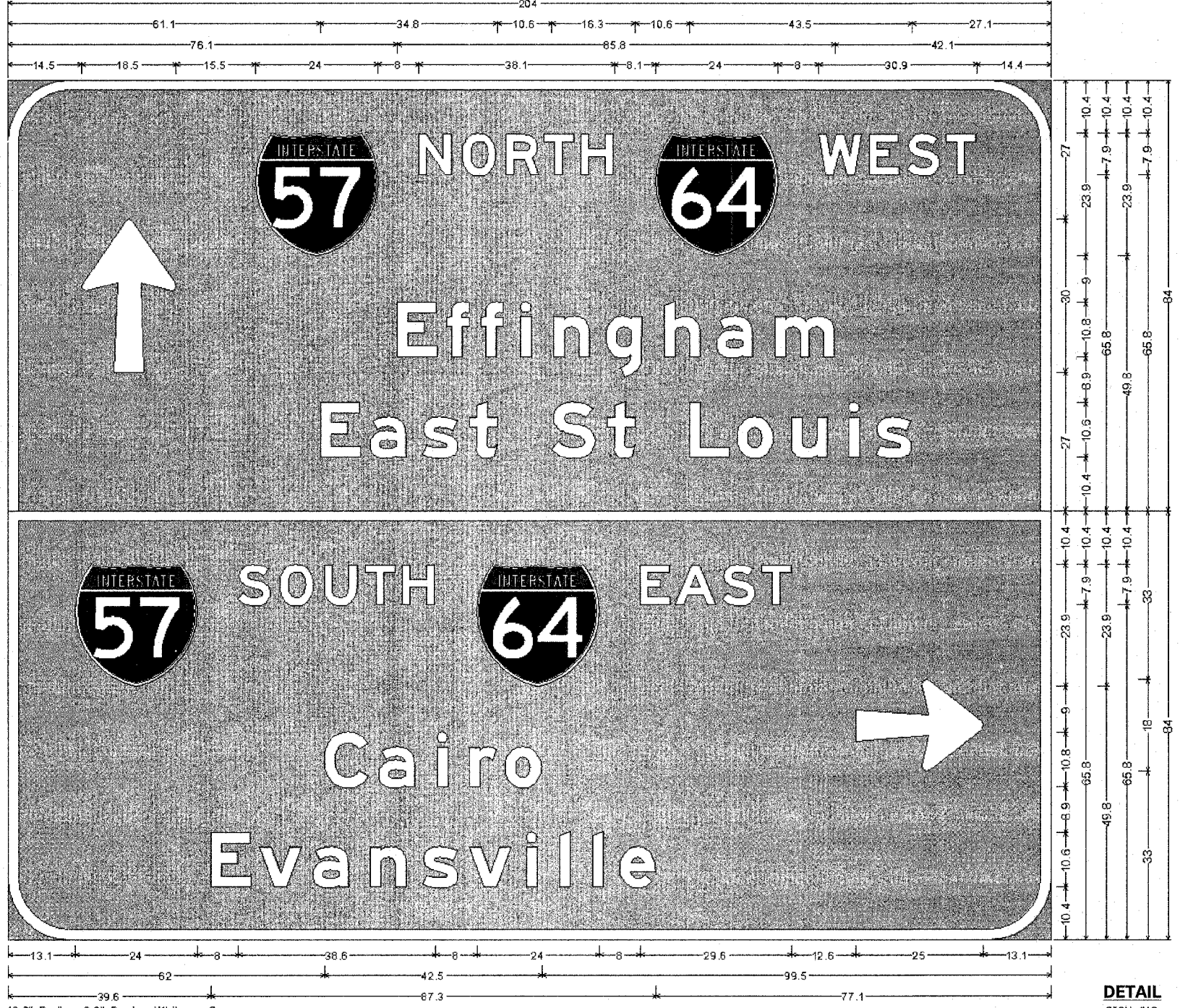
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 "EXIT" E Mod 2K; "94" E Mod 2K;
 9.0" Radius, 2.0" Border, White on Green;
 "Veterans" E Mod 2K; "Memorial Dr" E Mod 2K; "3/4" E Mod 2K; "MILE" E Mod 2K;
 Table of letter and object lefts.

E	X	I	T	9	4
101.1	110.0	120.6	124.5	147.0	161.0
40.3	57.4	71.1	83.1	98.6	109.0
V	e	t	e	r	a
18.6	37.5	53.0	75.6	91.5	103.3
M	e	m	o	r	i
103.3	111.5	128.4	147.6	165.4	
3/4	M	I	L	E	
63.1	98.5	110.6	115.4	124.4	

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HKB	JEFFERSON	18	251
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

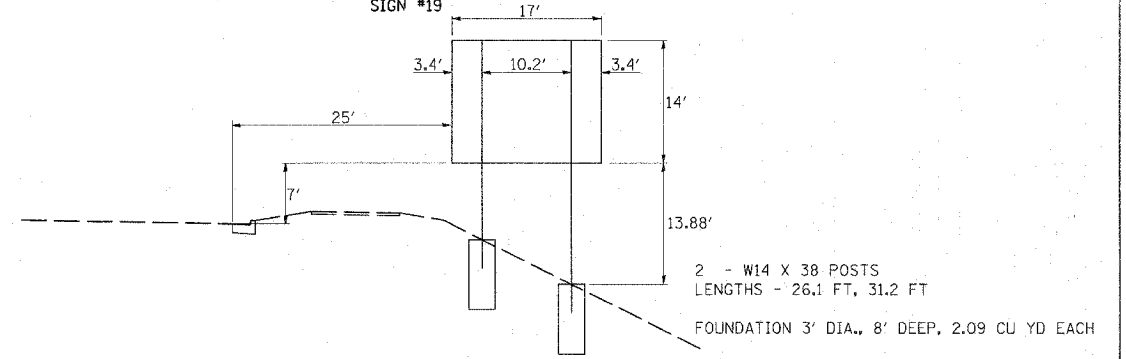
SIGN NO. 19
STA 43+00 RT Q VETERANS MEMORIAL DR



12.0" Radius, 2.0" Border, White on Green;
"NORTH" E Mod 2K; "WEST" E Mod 2K; "Effingham" E Mod 2K; "East St Louis" E Mod 2K;
12.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod 2K; "EAST" E Mod 2K; "Cairo" E Mod 2K; "Evansville" E Mod 2K;
Table of letter and object lefts.

14.5	48.5	80.5	88.9	97.5	104.9	112.3	126.6	158.6	168.6	176.0	183.6
76.1	85.9	92.6	100.4	106.8	117.1	128.5	138.8	150.1			
61.1	71.0	81.1	90.3	106.5	117.3	133.5	142.8	153.3	164.6	169.9	
13.1	45.1	53.3	61.9	69.9	77.3	91.8	123.8	130.5	139.8	147.5	165.9
62.0	72.6	84.0	90.4	97.3							
39.6	49.3	59.6	70.9	81.1	90.3	101.5	108.0	114.4	119.8		

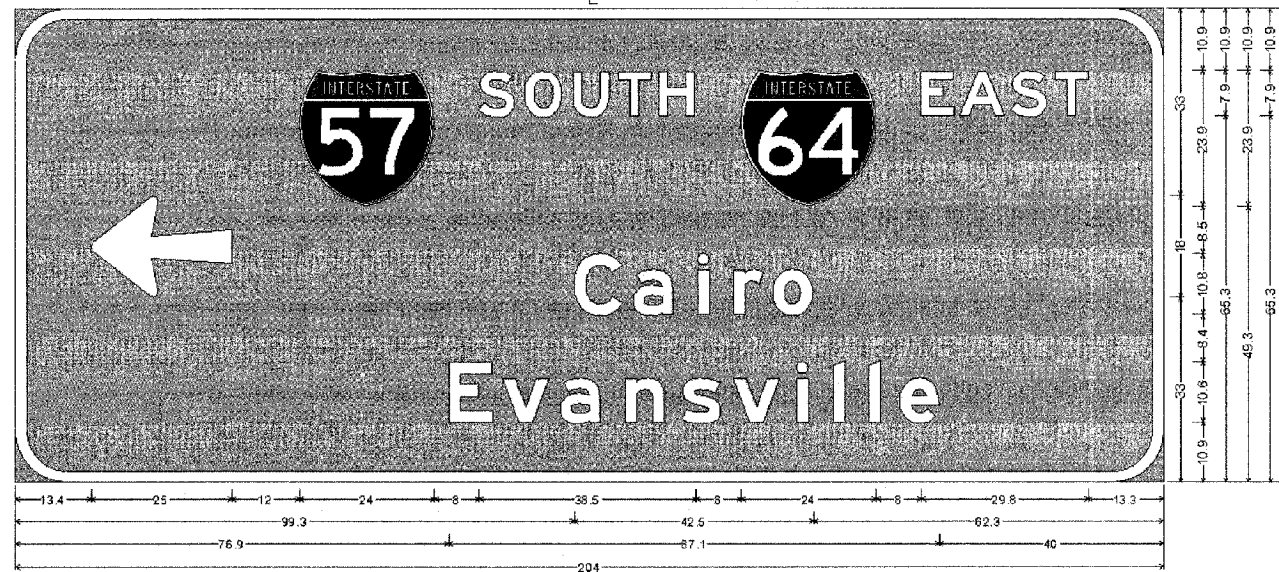
DETAIL
SIGN #19



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 USER NAME = ket

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	441-3/HBK	JEFFERSON	318	252
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

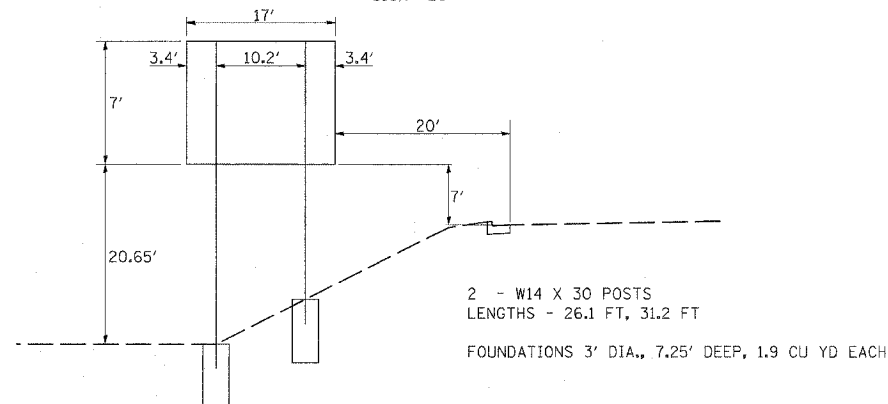
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STA 45+35 LT CL VETERANS MEMORIAL DR



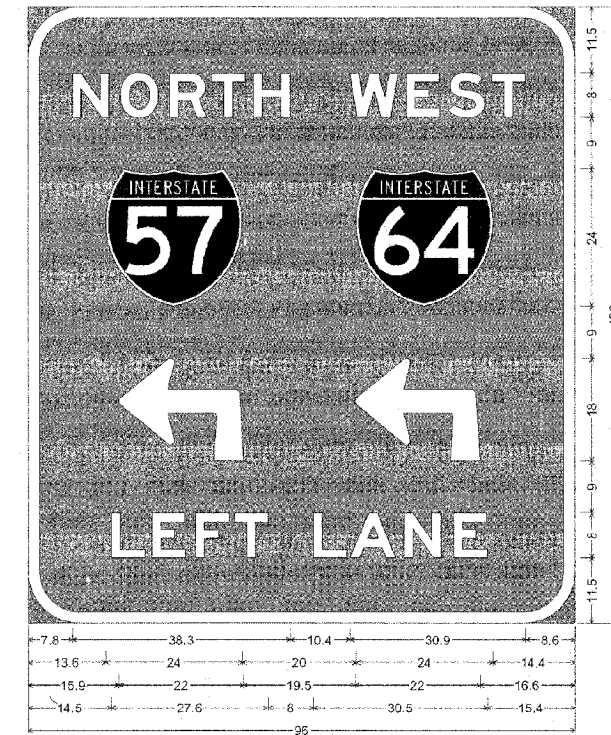
9.0" Radius, 2.0" Border, White on Green;
"SOUTH" E Mod 2K; "EAST" E Mod 2K; "Cairo" E Mod 2K; "Evansville" E Mod 2K;
Table of letter and object lefts.

S	O	U	T	H	E	A	S	T			
13.4	50.4	82.4	90.5	99.1	107.1	114.5	129.0	161.0	187.8	177.0	184.8
C	a	i	r	o							
99.3	109.9	121.3	127.5	134.5							
E	v	a	n	s	v	i	l	e			
76.9	86.5	96.9	108.1	118.4	127.5	139.0	145.3	151.8	157.0		

DETAIL
SIGN #20



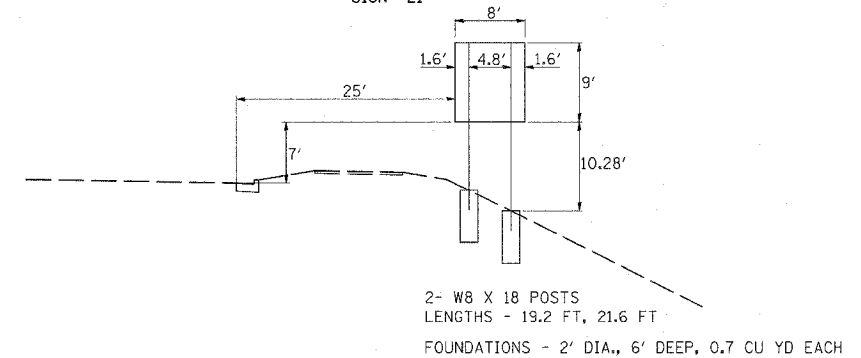
SIGN NO. 21
STA 47+70 RT CL VETERANS MEMORIAL DR



9.0" Radius, 2.0" Border, White on Green;
"NORTH" E Mod 2K; "WEST" E Mod 2K; 90 Deg Advanced Turn Arrow 22.0" X 18.0";
90 Deg Advanced Turn Arrow 22.0" X 18.0"; "LEFT LANE" E Mod 2K;
Table of widths and spaces.

N	O	R	T	H	W	E	S	T										
7.8	6.5	1.9	6.8	1.9	6.4	0.9	5.9	1.5	6.4	10.5	8.5	1.5	5.9	1.4	6.5	1.1	6.0	8.6
13.6	24.0	20.0	24.0	14.4														
15.9	22.0	19.5	22.0	16.6														
L	E	F	T	L	A	N	E											
14.5	6.0	1.3	5.9	1.6	6.0	0.9	5.9	8.0	5.9	0.5	8.0	1.5	6.5	2.3	5.9	15.3		

DETAIL
SIGN #21



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	411-3H8K	JEFFERSON	253	253
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signs. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

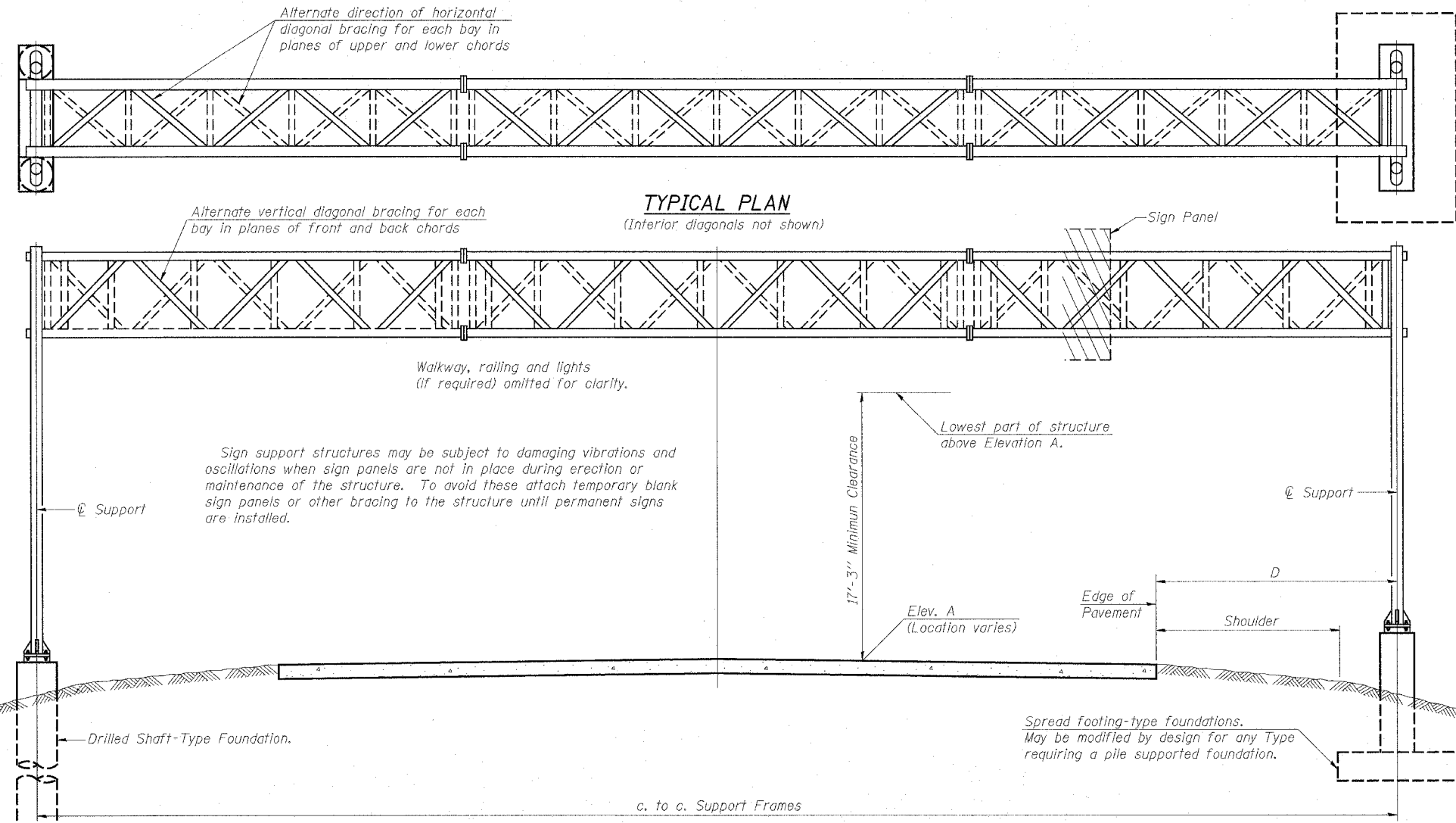
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



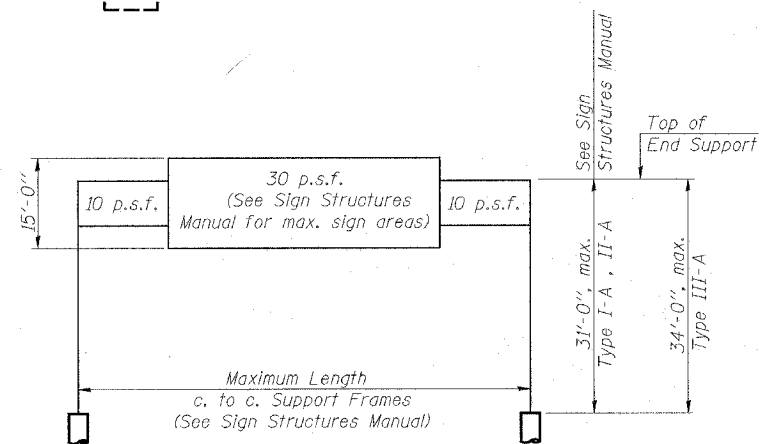
TYPICAL ELEVATION

(Looking at Face of Signs)**

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
9S0411057R093.3	700+50	I-A	82	499.06*	17.5' (RT) 35.0' (LT)	14'-0"	353.25
9S0411057L094.0	700+40	I-A	91	514.54*	22.5' (RT) 16.4' (LT)	12'-0"	457.25

**Looking upstation for structures with signs both sides.
• ELEVATION A IS THE CENTER LINE PLUS 1' IN ANTICIPATION OF A FUTURE RUBBLIZATION PROJECT



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A (4'-0" X 4'-6")	Foot	173
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	86
CONCRETE FOUNDATIONS	Cu. Yds.	74

NUMBER	REVISION	DATE

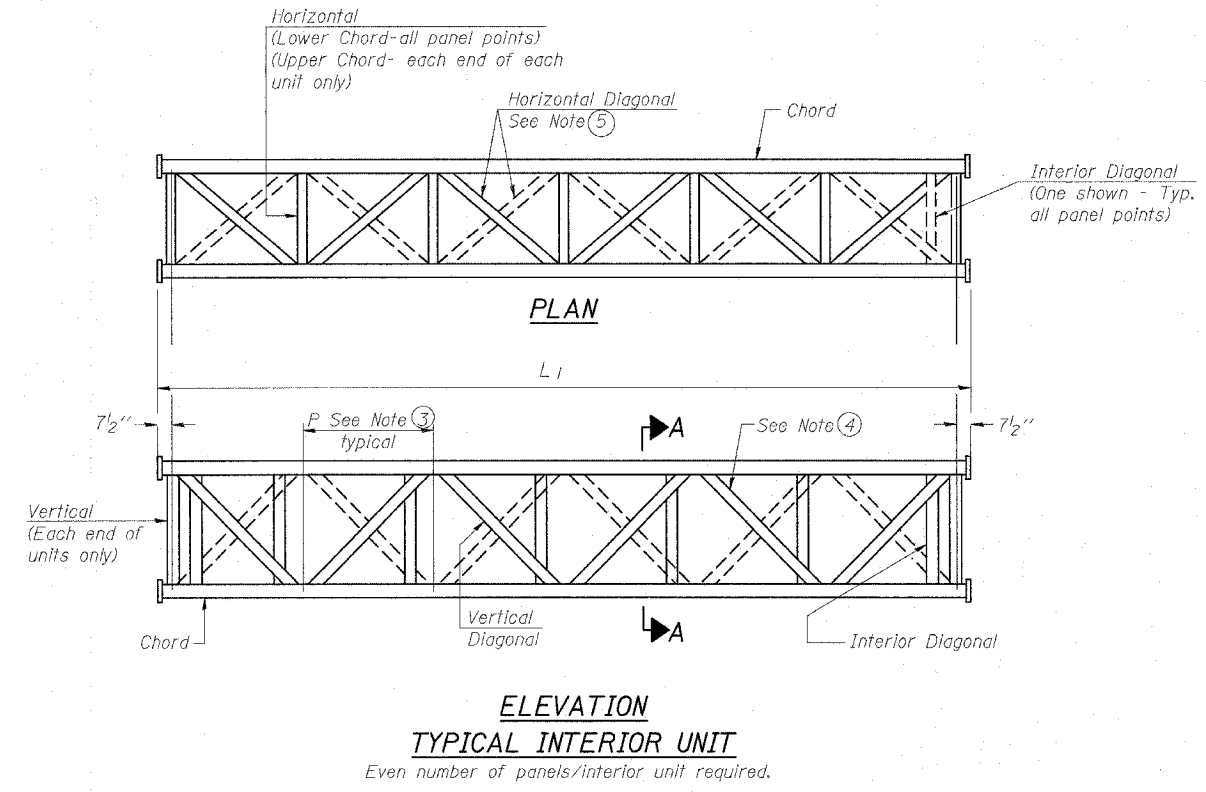
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		OVERHEAD SIGN STRUCTURES GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: VERT. NONE
HORIZ. DATE

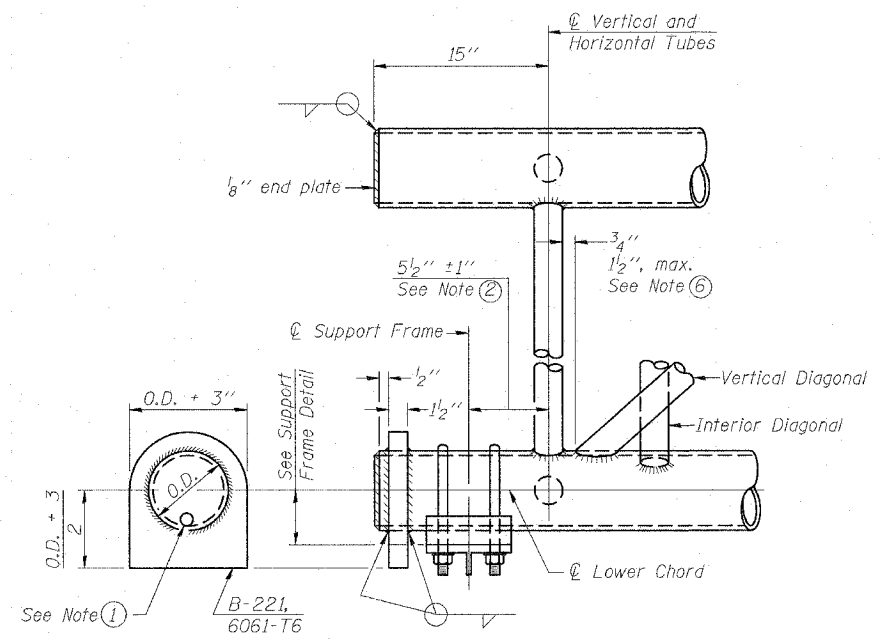
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CHECKED BY

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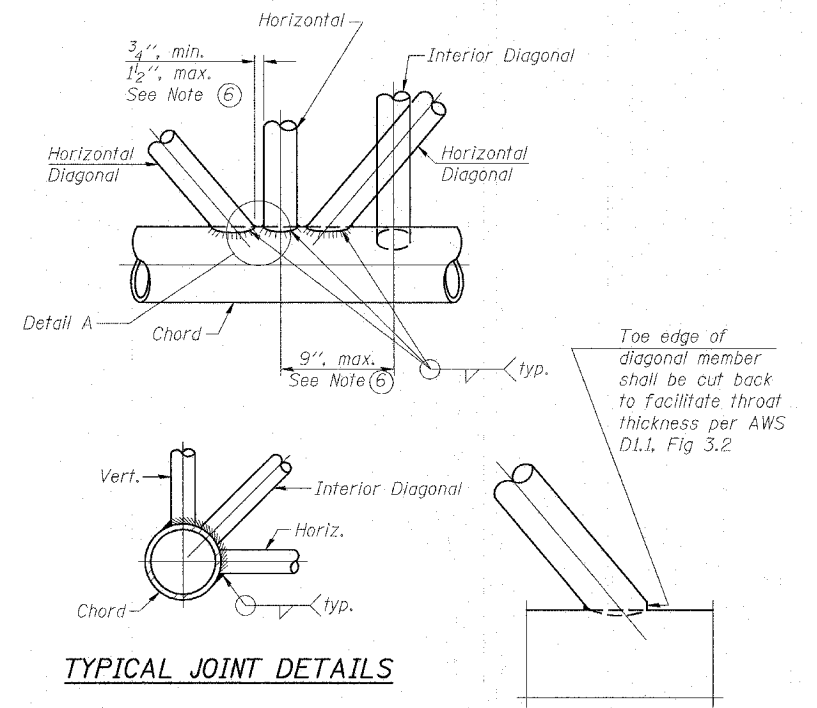
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		254
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.



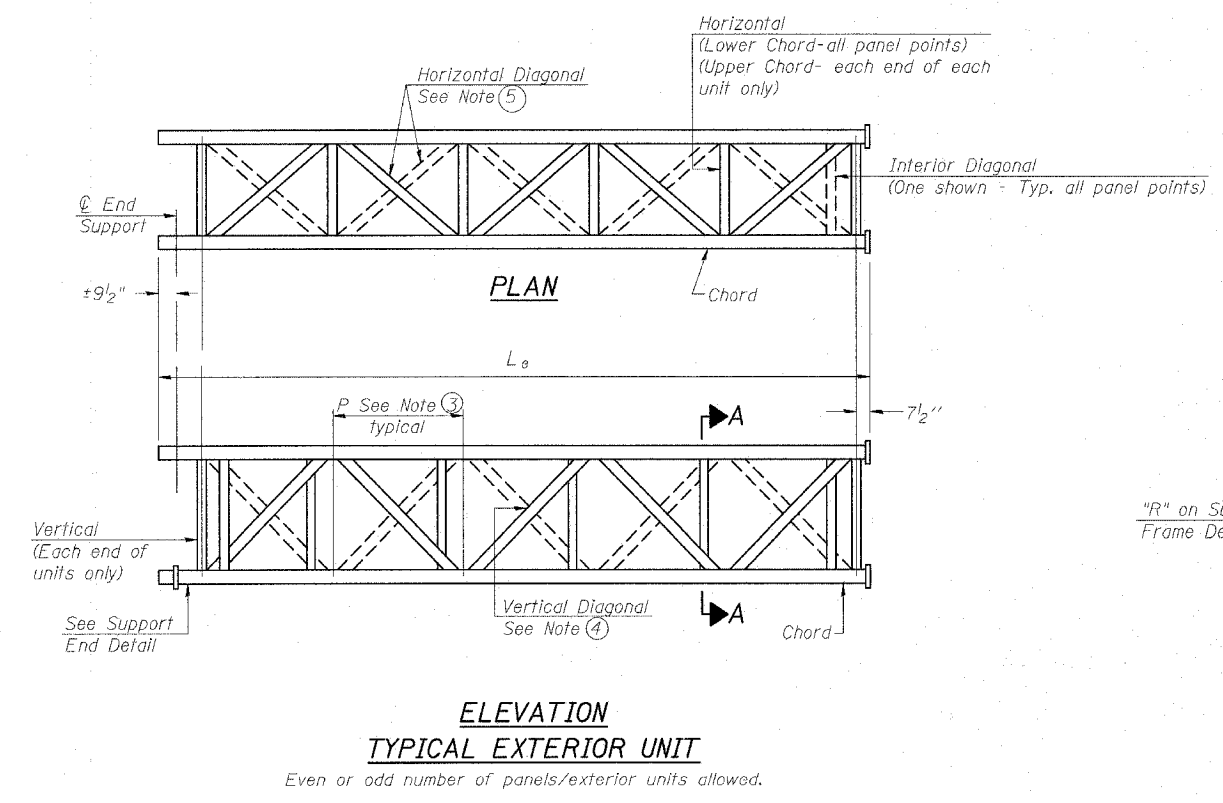
SUPPORT END DETAIL FOR EXTERIOR UNIT



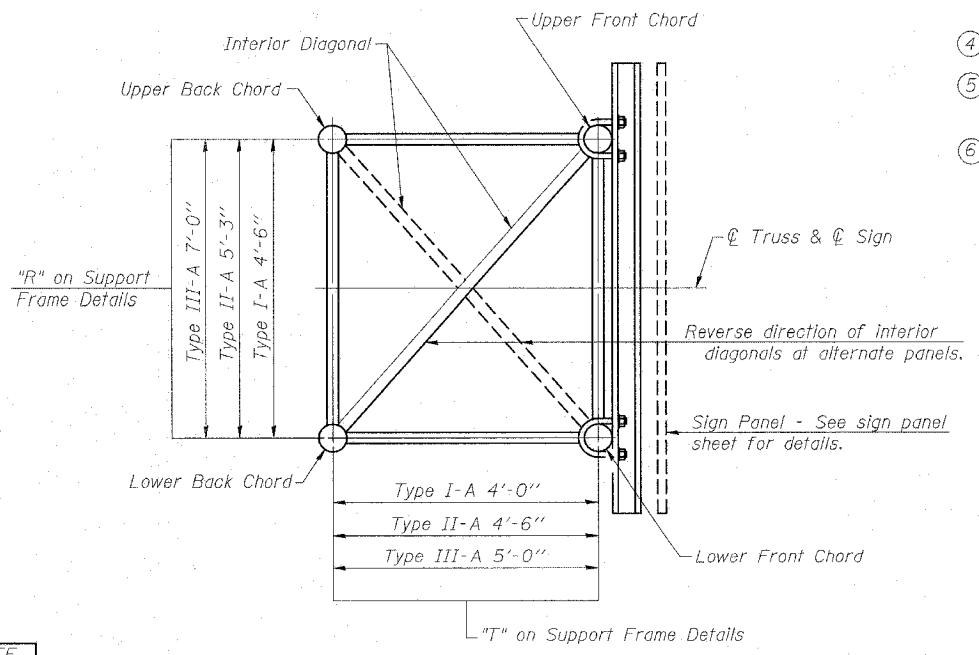
TYPICAL JOINT DETAILS

DETAIL A

- NOTES**
- Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
 - 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
 - Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
 - Vertical Diagonals in front and back face shall alternate.
 - Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
 - All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

NUMBER	REVISION	DATE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A and III-A
NAME	DATE	

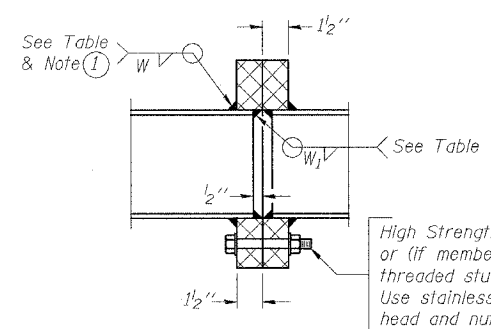
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HORIZ. DATE
DRAWN BY
CHECKED BY

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 USER NAME = puseletc

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		255
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRUSS UNIT TABLE

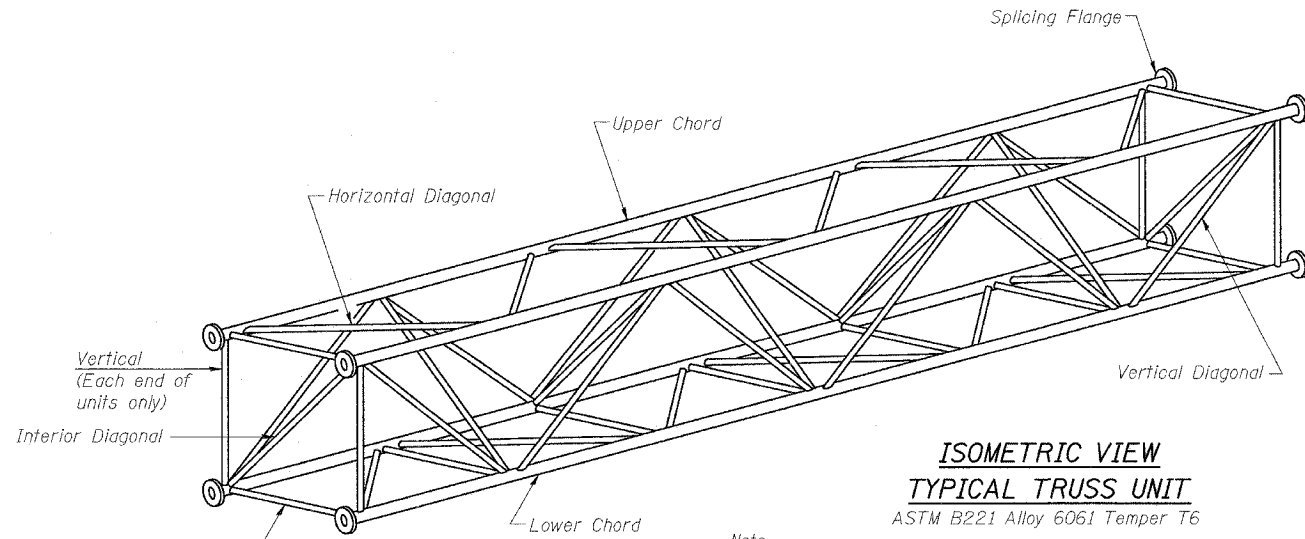
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit			Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange						
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.		Wall	Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W _i		
9S0411057R093.3	700+50	I-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	5"	5/16"	2 1/2"	5/16"	2.35"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
9S0411057L094.0	740+40	I-A	6	31'-1 1/2"	4'-10 1/2"	1	6	30'-6"	4'-10 1/2"	5 1/2"	5/16"	2 1/2"	5/16"	2.80"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"



SECTION B-B

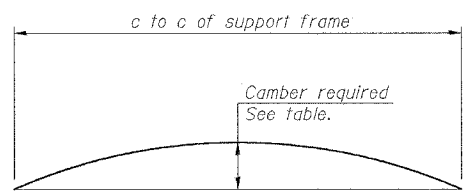
High Strength bolts with locknuts or (if members interfere) threaded studs with 2 locknuts. Use stainless steel washers under head and nut. See table.

1 Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



ISOMETRIC VIEW TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

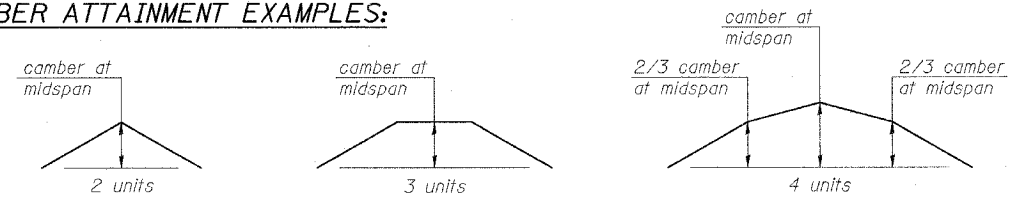
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



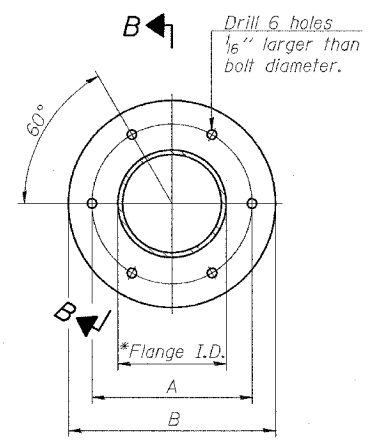
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

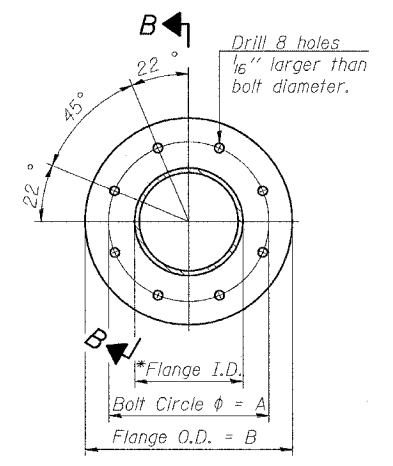
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

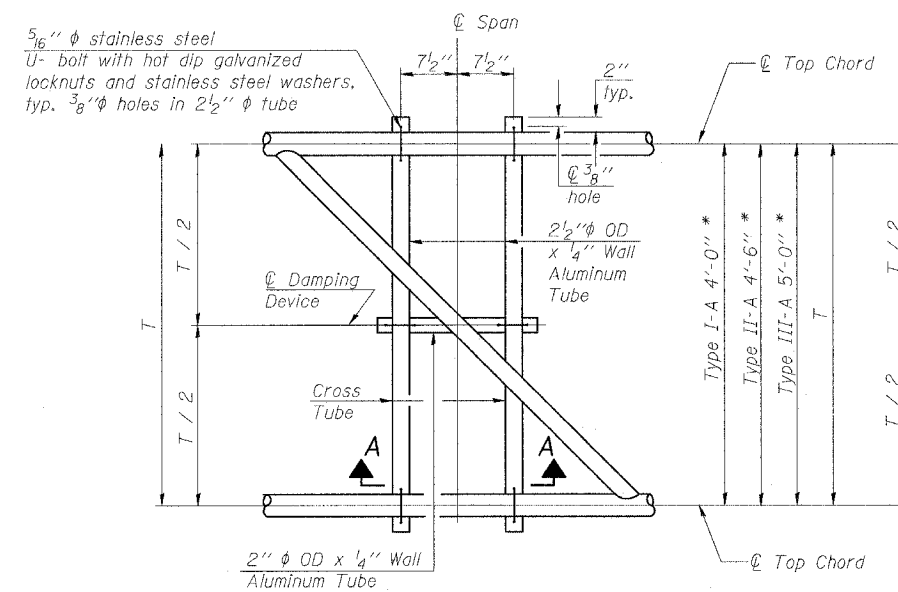
NUMBER	REVISION	DATE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A and III-A
SCALE: VERT. NONE	DRAWN BY	
DATE	CHECKED BY	

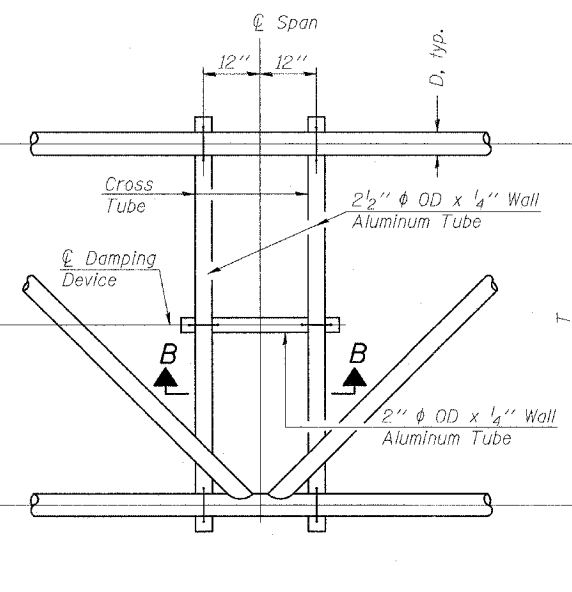
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 FILE NAME = c:\pvc\joe\user\final\consultant\ve\man\drive\dot supplied info\d982986.dgn
 PLOT SCALE = 50.0000 / IN.
 USER NAME = pmsellor

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		256
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

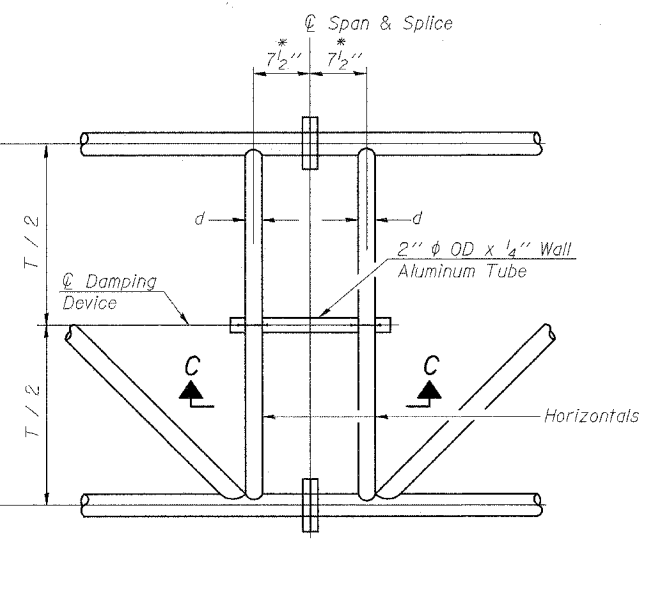
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.



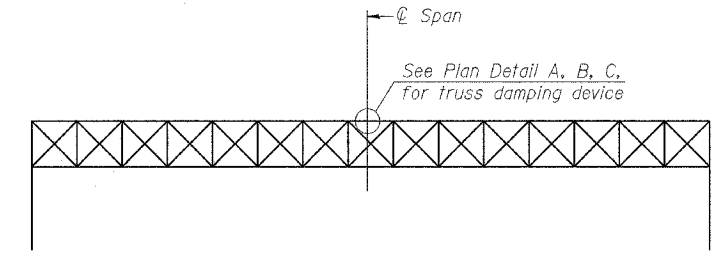
PLAN DETAIL "A"
Span between Panel Points



PLAN DETAIL "B"
Span at Panel Point



PLAN DETAIL "C"
Span at Chord Splice

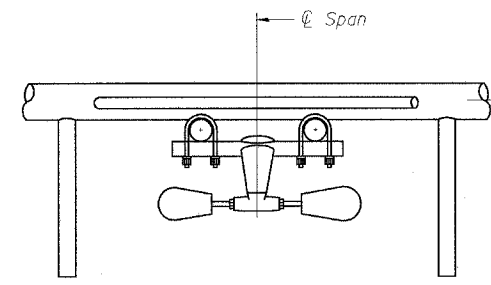


ELEVATION
Aluminum Overhead Sign Truss

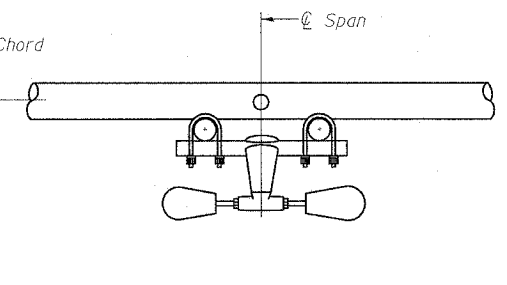
NOTES

Damper: One damper per truss.
(31 lbs. Stockbridge-Type Aluminum)
Cost included in Overhead Sign Structure...

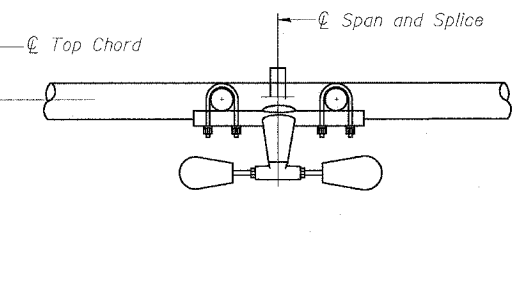
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



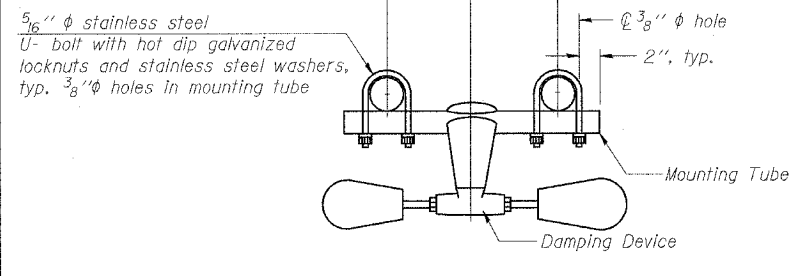
SECTION A-A



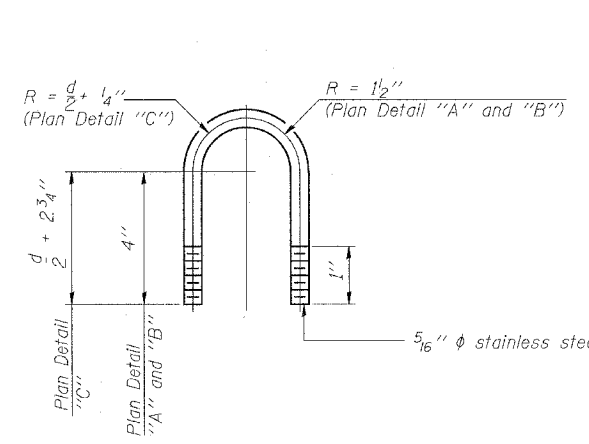
SECTION B-B



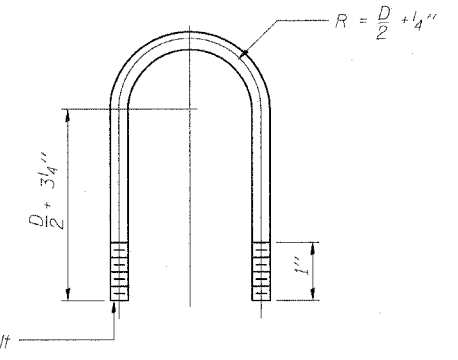
SECTION C-C



TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")

REVISIONS	
NAME	DATE

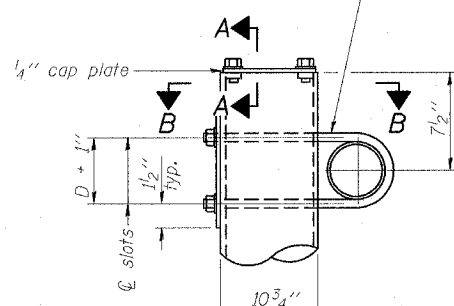
ILLINOIS DEPARTMENT OF TRANSPORTATION
OVERHEAD SIGN STRUCTURE DAMPING DEVICE
SCALE: VERT. NONE
DATE: HORIZ.
DRAWN BY: _____
CHECKED BY: _____

PLOT DATE = 5/11/2007
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 USER NAME = russellc

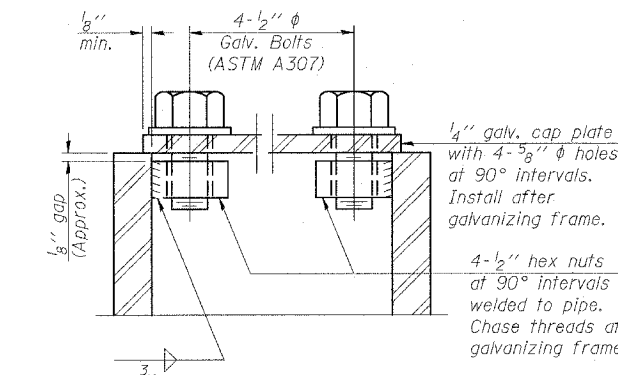
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		257
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
 Load combinations checked include deadload plus:
 a) 100% wind normal to sign, 20% parallel to sign
 b) 60% wind normal to sign, 30% parallel to sign

3/4" ϕ stainless steel U-bolt. Provide two washers and two hexagon locknuts. ④
 1/16" x 2" slots on 10" ϕ pipe. (4 slots required per pipe)

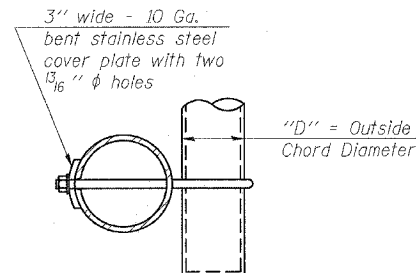


DETAIL A

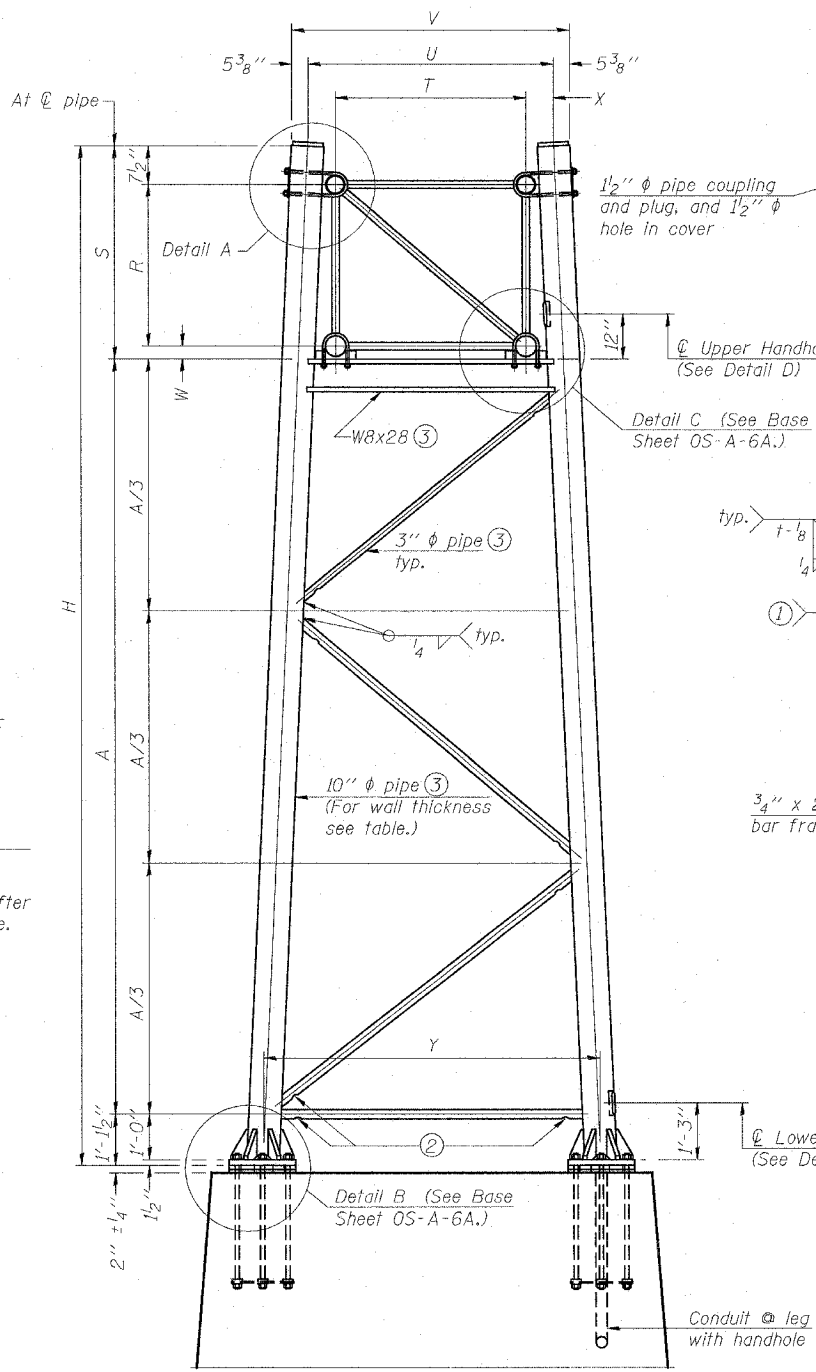


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

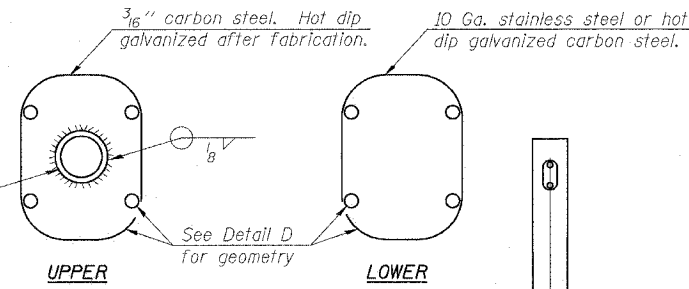


SECTION B-B

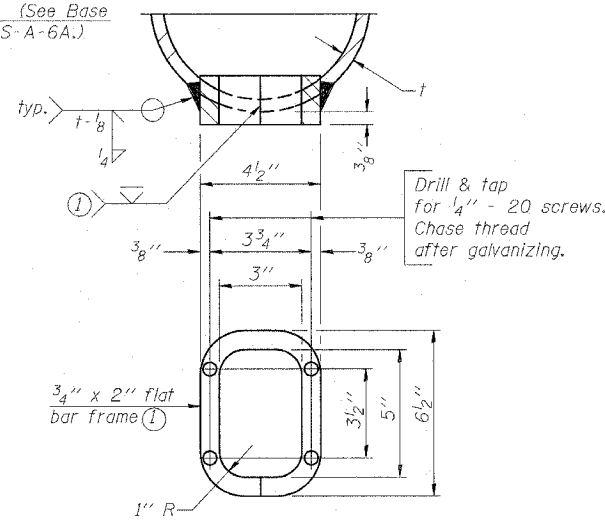


SIDE ELEVATION

For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

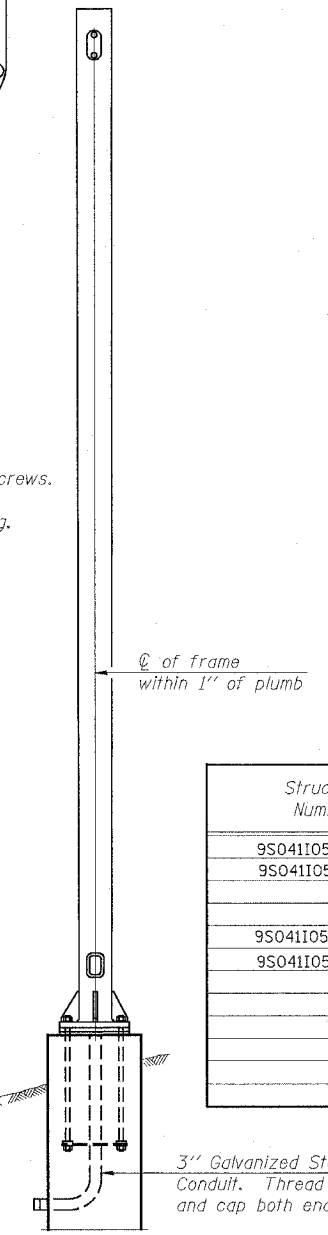


HANDHOLE COVERS



DETAIL D

Provide 6 1/2" x 4 1/2" cover. Provide 4-5/16" ϕ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws. (See cover details)



END ELEVATION

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μ in or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
9S041I057R093.3	700+50	X		I-A	0.279	28.8	22.3
9S041I057R093.3	700+50		X	I-A	0.279	28.0	21.5
9S041I057L094.0	740+40	X		I-A	0.279	28.0	21.5
9S041I057L094.0	740+40		X	I-A	0.279	29.8	23.3

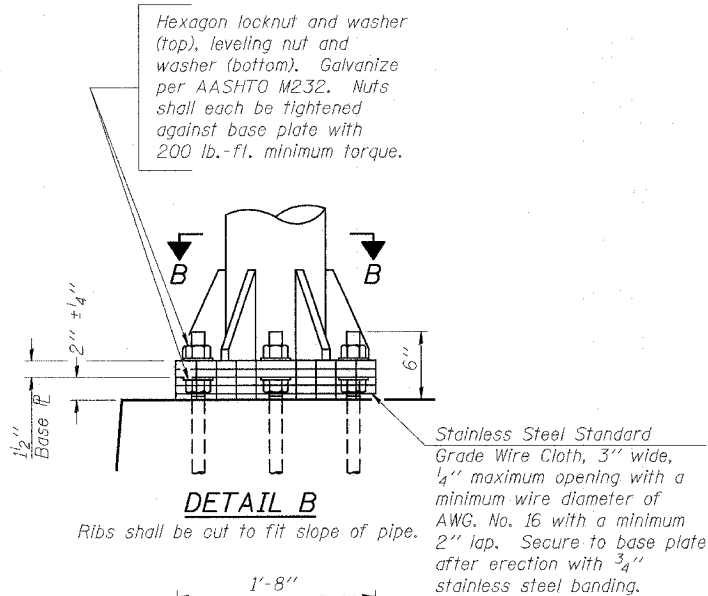
NUMBER	REVISION	DATE

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"

REVISIONS		DATE
NAME		

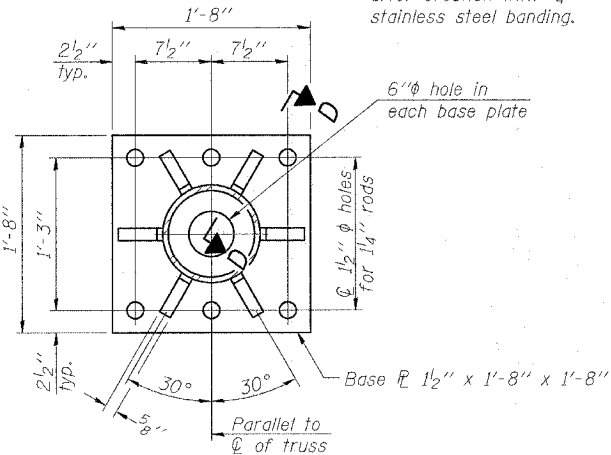
ILLINOIS DEPARTMENT OF TRANSPORTATION
**OVERHEAD SIGN STRUCTURES
 SUPPORT FRAME for ALUMINUM TRUSS**
 SCALE: VERT. NONE HORIZ.
 DATE: DRAWN BY: CHECKED BY:

CONTRACT NO. 98963				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	25	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

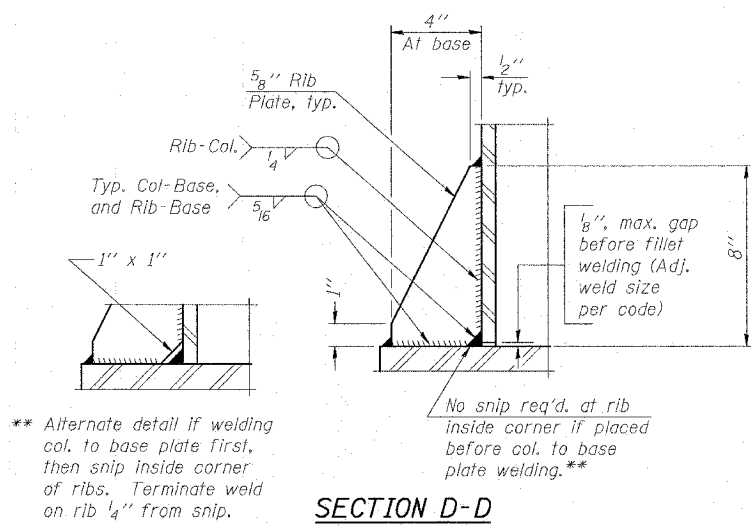


DETAIL B

Ribs shall be cut to fit slope of pipe.

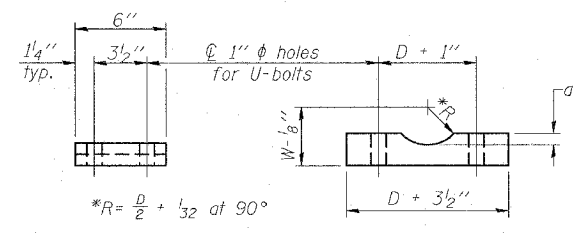


SECTION B-B



SECTION D-D

** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



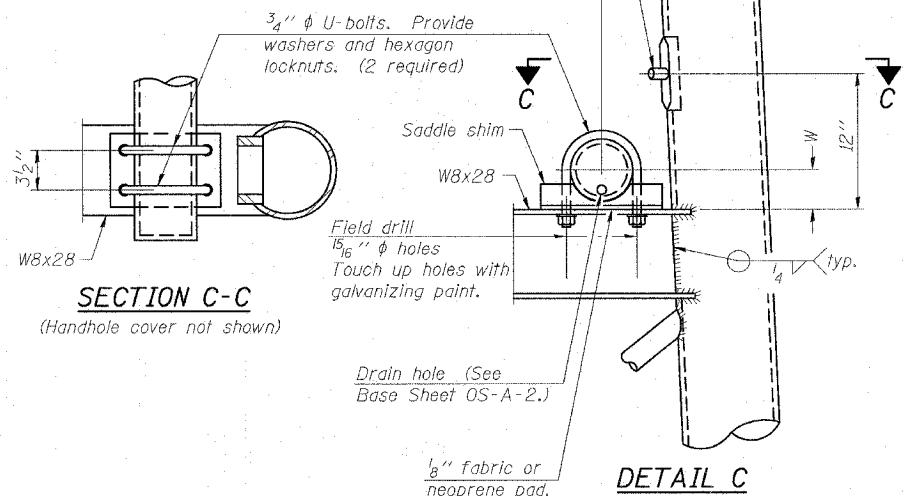
D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"
7"	1"

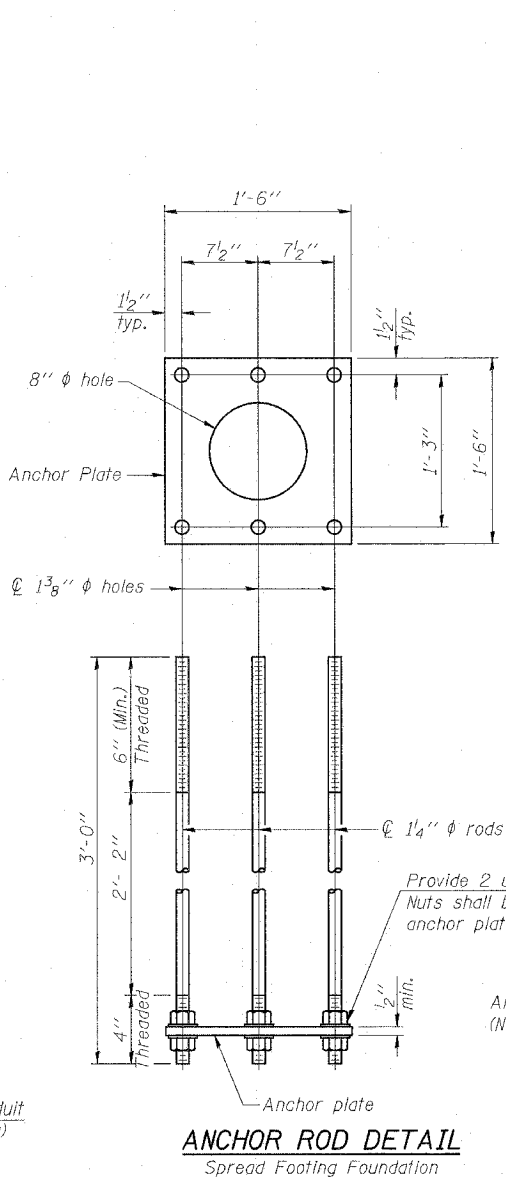
NUMBER	REVISION	DATE



SECTION C-C

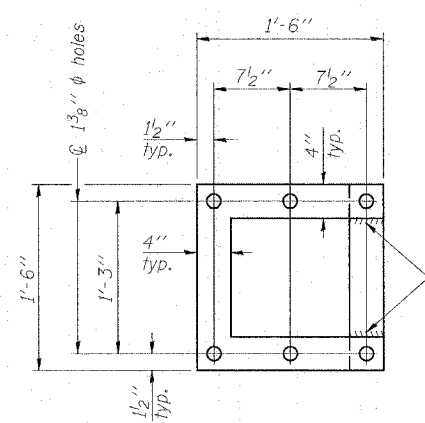
(Handhole cover not shown)

DETAIL C

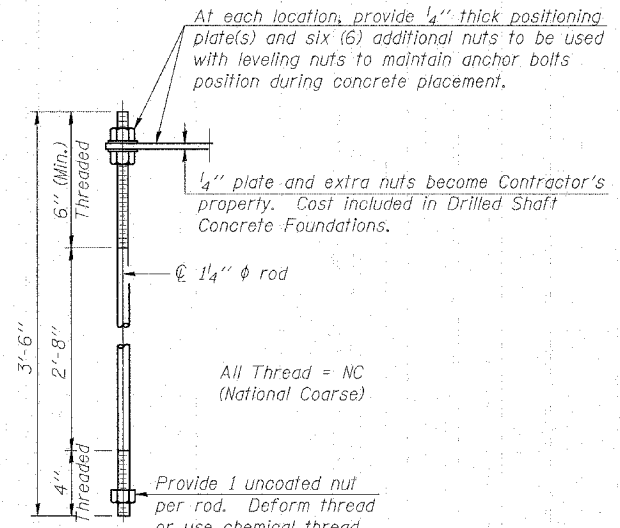


ANCHOR ROD DETAIL
Spread Footing Foundation

Anchor rods shall conform to AASHTO M314 Grade 36 or 50 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.



POSITIONING PLATE(S)



ANCHOR ROD DETAIL
Drilled Shaft Foundation

10" PIPE SUPPORT FRAME DETAILS

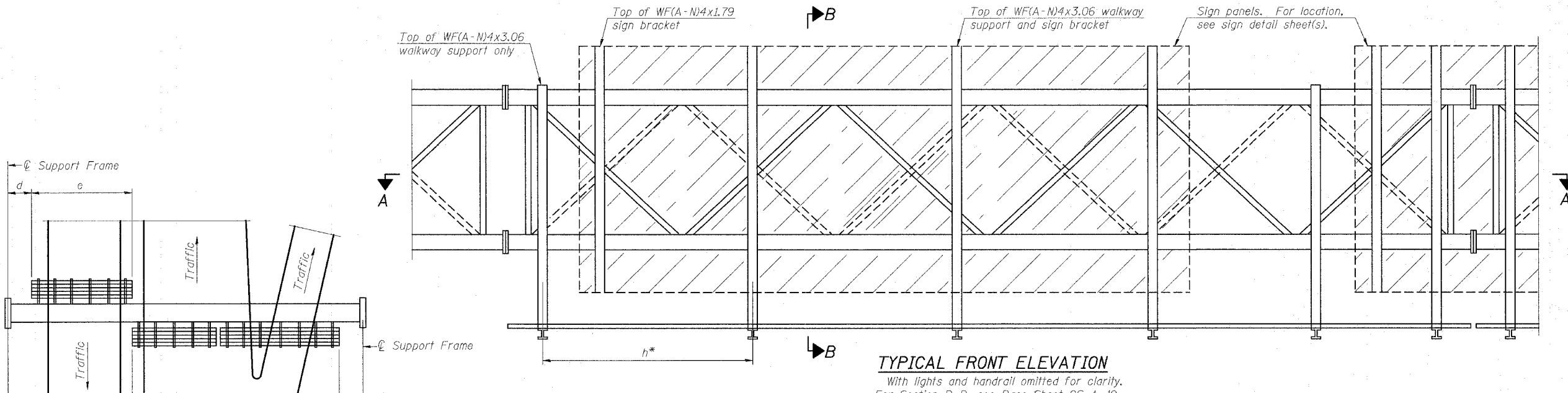
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS
ALUMINUM TRUSS

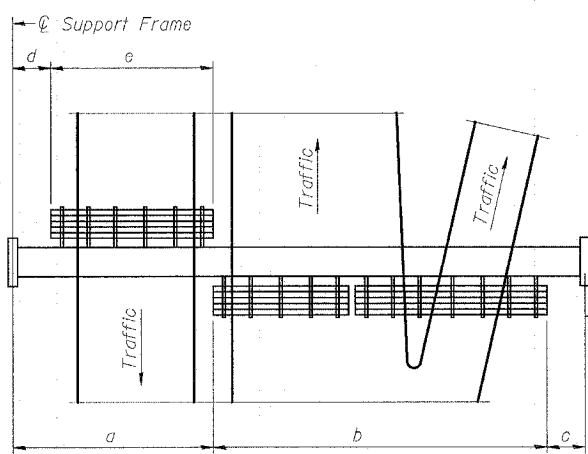
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HORIZ.
DATE _____ DRAWN BY _____ CHECKED BY _____

PLOT DATE = 5/11/2007
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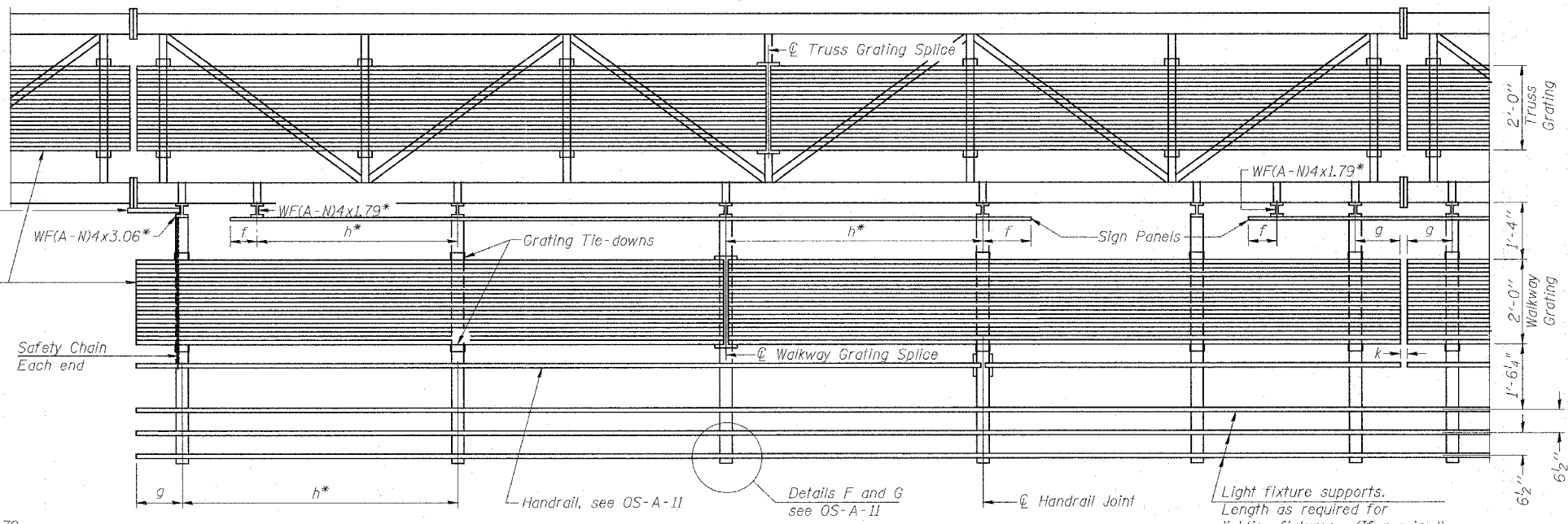
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		259
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



Walkway and Truss Grating width dimensions are nominal and may vary ±1/2" based on available standard widths.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

** Alternate angle for safety chain attachment
Standard Aluminum Grating, see Details T and W
Safety Chain Each end

Notes:
* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
f = 12" maximum, 4" minimum (End of sign to © of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to © of nearest support bracket)
h = 6'-0" maximum © to © sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

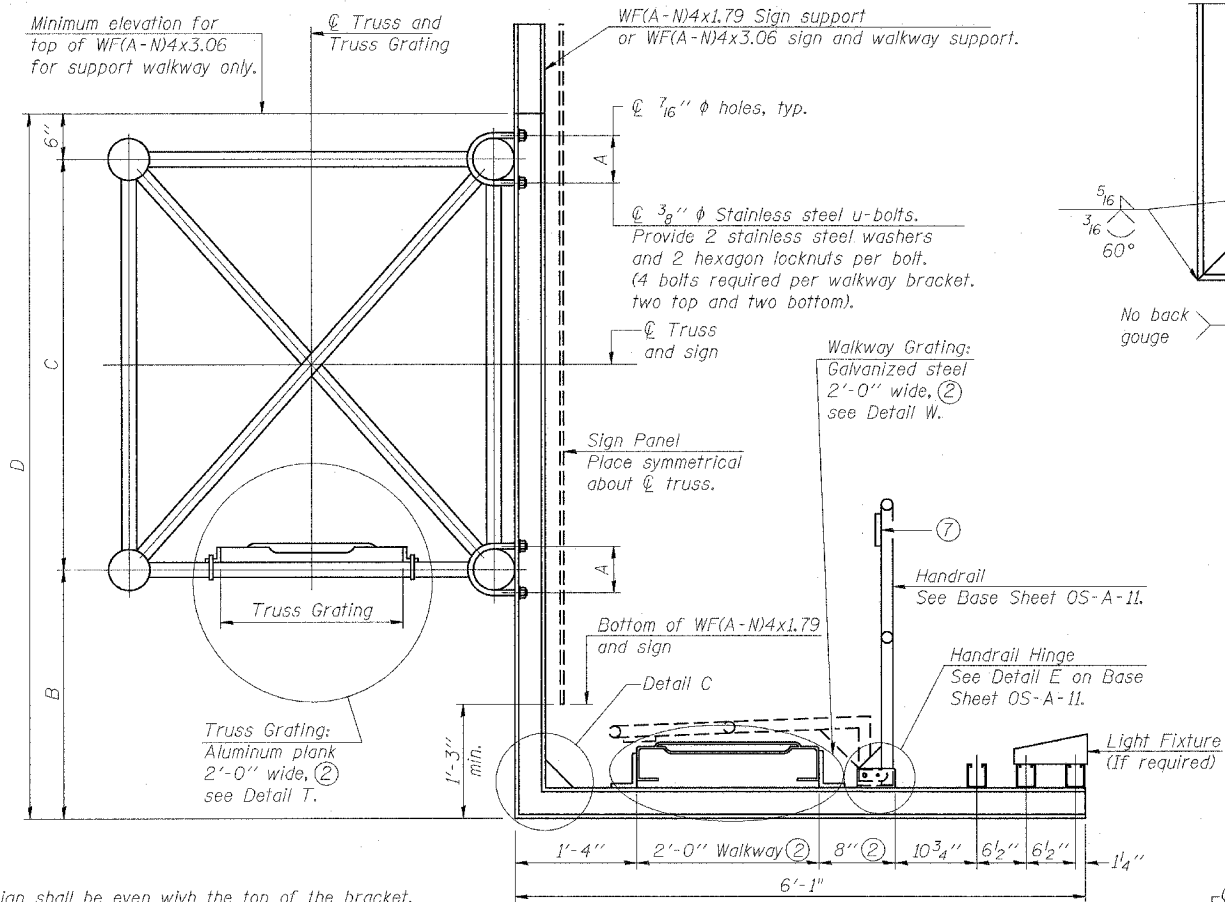
Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
9S0411057R093.3	700+50	42.5'	37.5'	2'	-	-	37.5'
9S0411057L094.0	740+40	31.5'	48.5'	11'	-	-	48.5'

NUMBER	REVISION	DATE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS</p> <p>SCALE: VERT. NONE HORIZ. DATE</p> <p>DRAWN BY CHECKED BY</p>

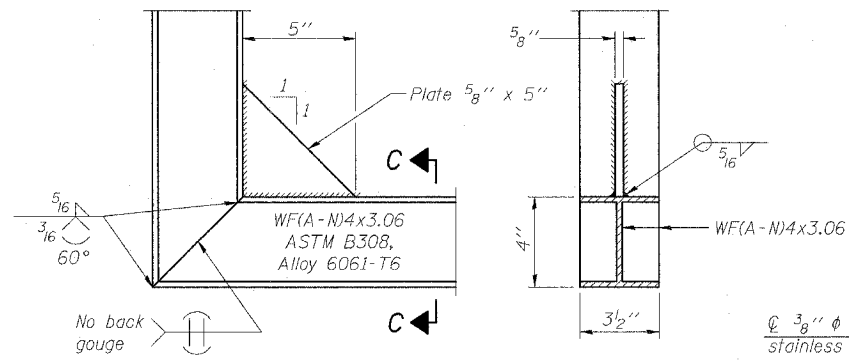
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 USER NAME = pmsellor

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		260
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



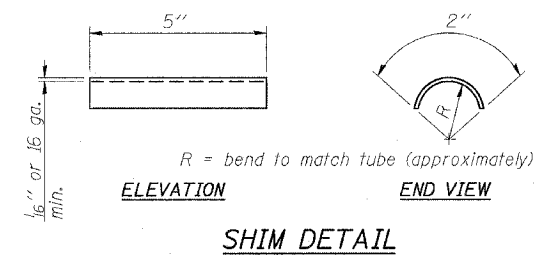
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

SECTION B-B

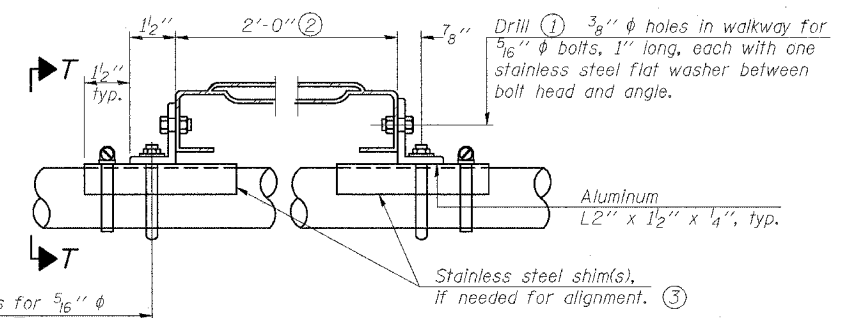


DETAIL C

SECTION C-C

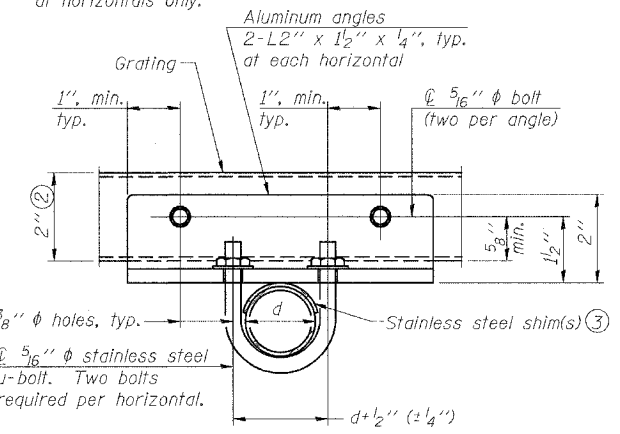


SHIM DETAIL



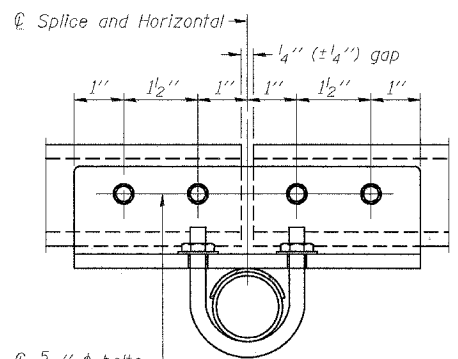
DETAIL T

3/8" holes in angles for 5/16" stainless steel u-bolts. Two stainless steel washers and hot dip galvanized steel nuts required per bolt. U-bolt and angle connections required at horizontals only.



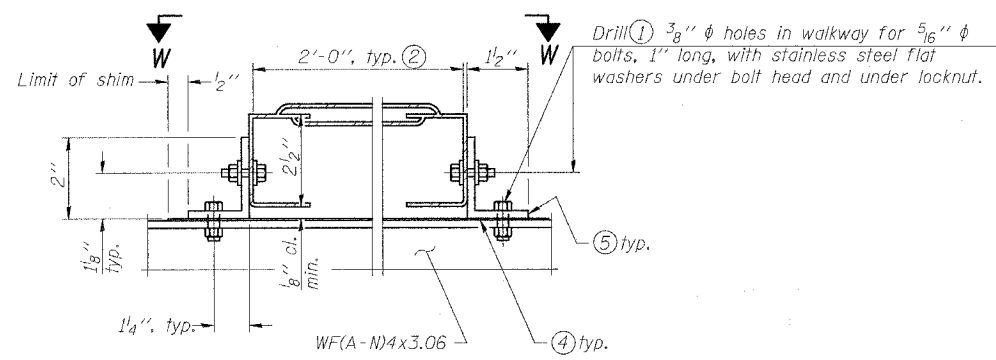
SECTION T-T

(Truss Grating Continuous) d = outside diameter of horizontal



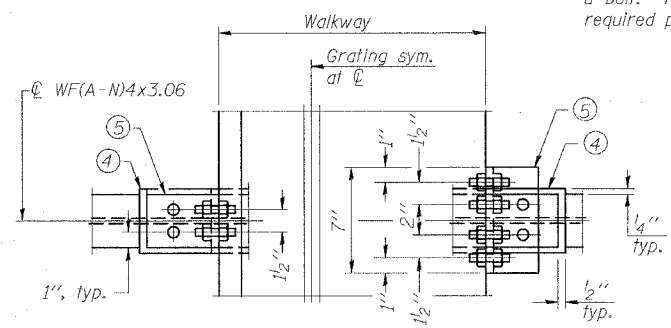
SECTION T-T

(Truss Grating Splice) Alternate splice details and locations may be used subject to the Engineer's review and approval.



DETAIL W

GALVANIZED STEEL WALKWAY GRATING



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway and truss grating dimensions are nominal and may vary (width $\pm 1/2$ ", depth $\pm 1/2$ ") based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.
- Stainless steel shims shall be placed under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, see "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.
- 1/8" (or 16 ga.) x 2 1/2" x 4" stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle. Adhesives for shims shall be suitable for materials joined and full exposure conditions.
- Galvanized steel L2" x 2" x 1/4", 3 1/2" long with continuous grating, 7" long at grating splice.
- Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-10 and may be substituted by Contractor at no change in contract cost.
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

ALUMINUM TRUSS GRATING

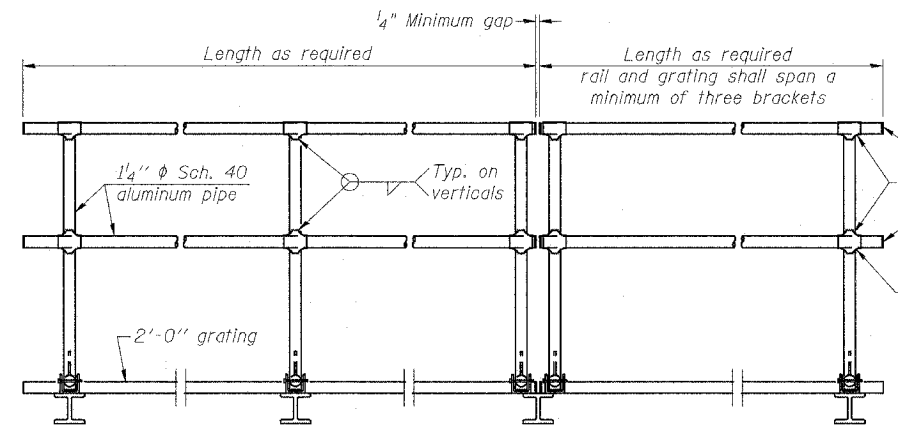
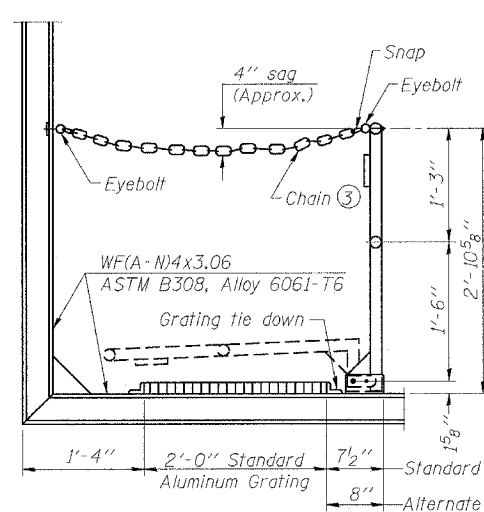
Structure Number	Station	A	B	C	D
9S041057R093.3	700+50	5 1/2"	6'-0"	4'-6"	11'-0"
9S041057L094.0	740+40	6"	5'-3"	4'-6"	10'-3"

NUMBER	REVISION	DATE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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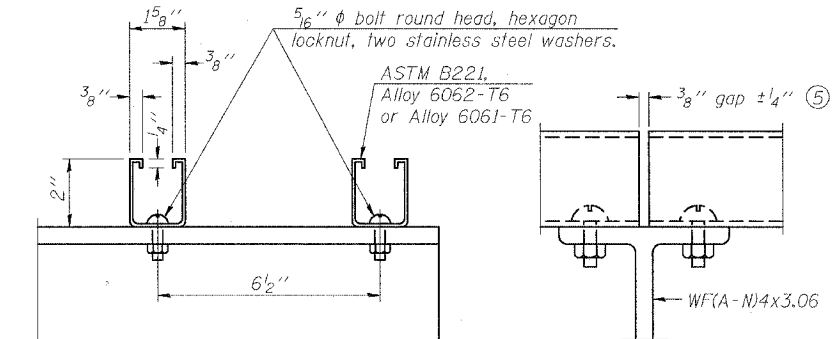
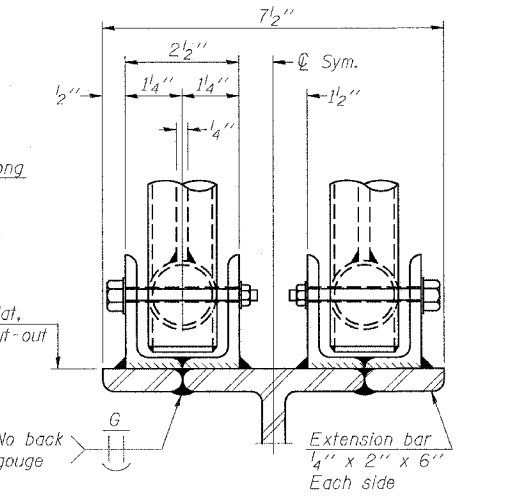
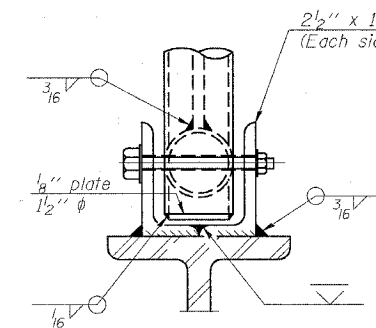
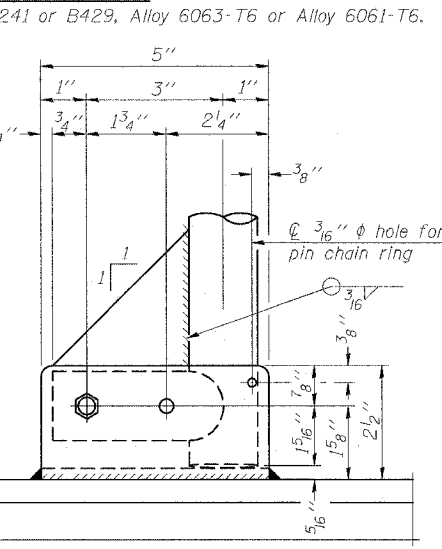
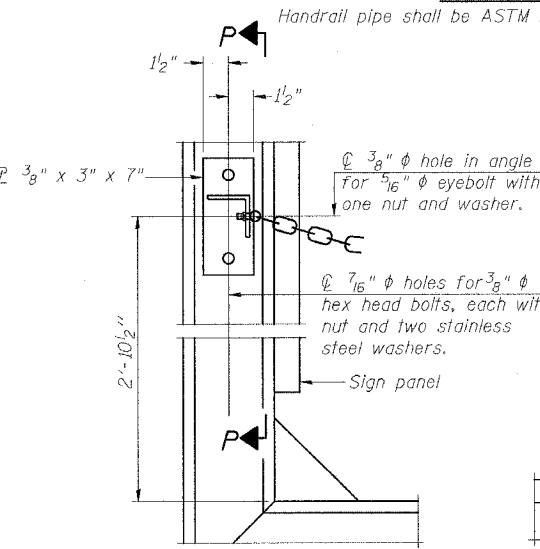
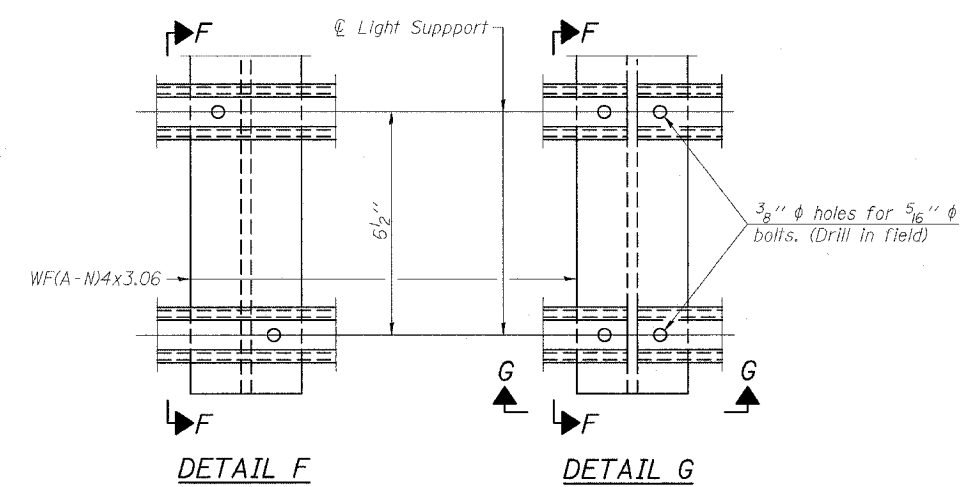
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		261
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



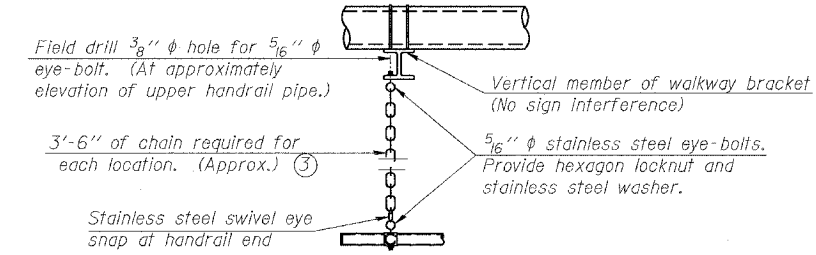
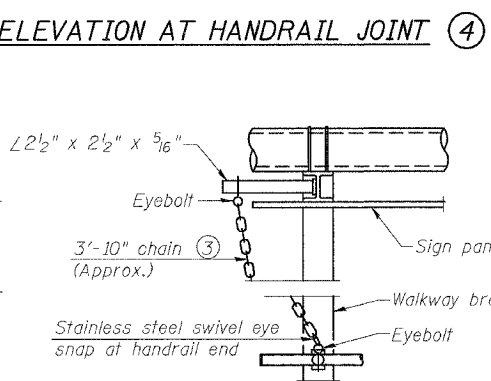
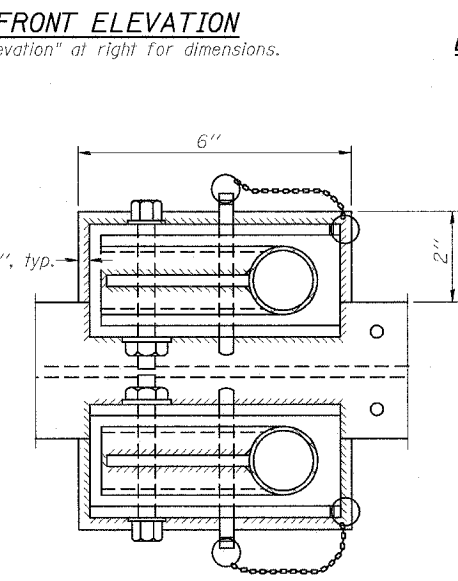
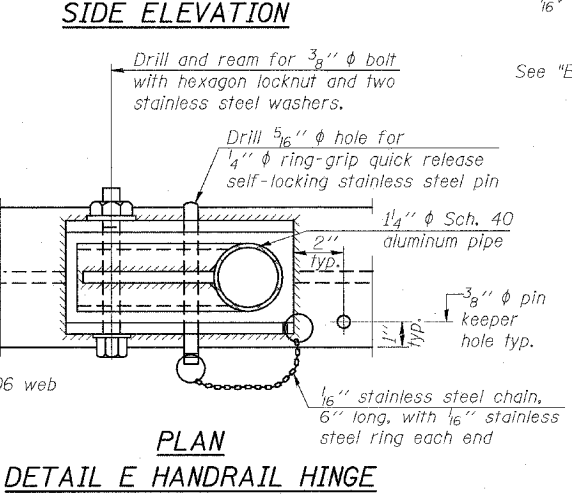
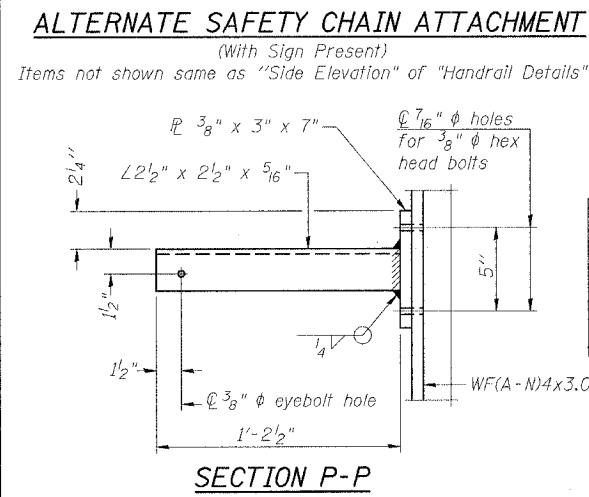
① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

② Horizontal handrail member shall be continuous thru fitting. Provide 1/16" hole in fitting for 3/8" bolt. Field drill 1/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 3/16" eyebolts in 1/16" holes on top rail at ends only.)



SECTION F-F **SECTION G-G**
LIGHTING FIXTURE MOUNTS (IF REQUIRED)

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		OVERHEAD SIGN STRUCTURES ALUMINUM HANDRAIL DETAILS
		SCALE: VERT. NONE HORIZ. DATE
		DRAWN BY CHECKED BY

NUMBER	REVISION	DATE

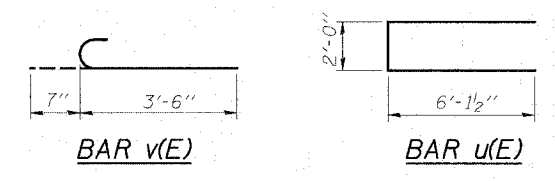
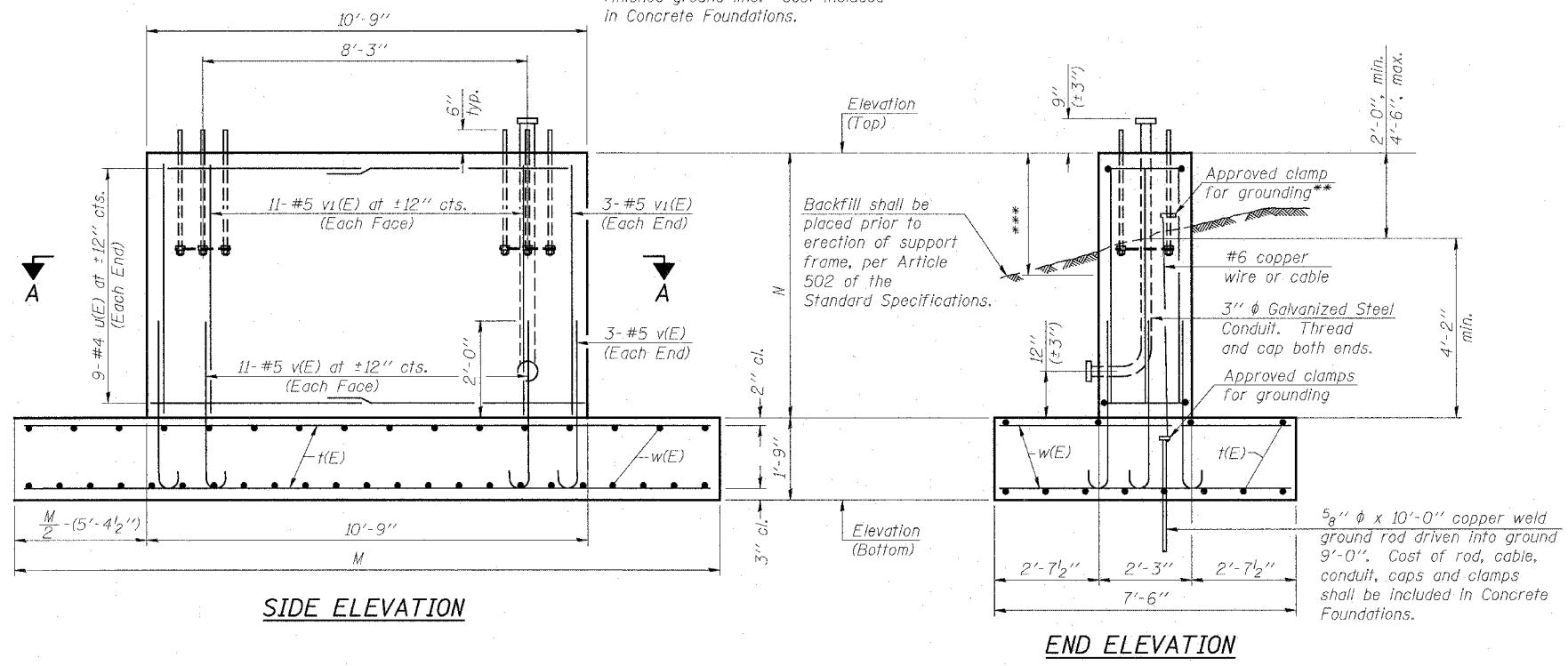
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		262
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

For anchor rod size and placement, see Support Frame Detail Sheet.

** Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

*** A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Concrete Foundations.

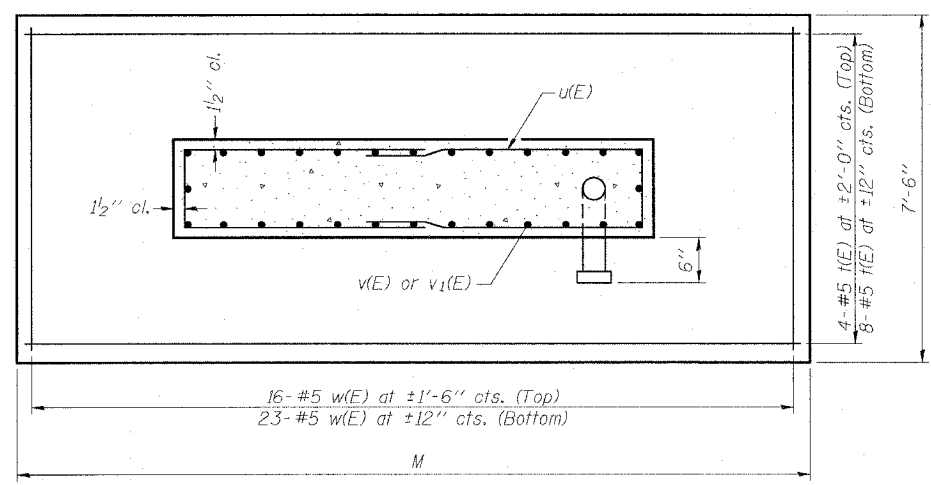


BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
t(E)	12	#5	*	—
u(E)	18	#4	14'-3"	—
v(E)	28	#5	4'-1"	C
v1(E)	28	#5	*	—
w(E)	39	#5	7'-3"	—

*Length of t(E) bar = (Dim. M) - 6"
v1(E) bar = (Dim. N) - 3"

5/8" φ x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Concrete Foundations.



SECTION A-A

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	N	M	Elevation Top	Elevation Bottom	N	M	
9S041I057R093.3	700+50	498.95	488.20	9'-0"	21'-6"	499.78	489.03	9'-0"	21'-6"	37.0
9S041I057L094.0	740+40	515.30	504.55	9'-0"	21'-6"	513.50	502.75	9'-0"	21'-6"	37.0

Note:
The Foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.0 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.
During construction, if footing length or width or wall height change by more than 12", or if reinforcement is changed, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

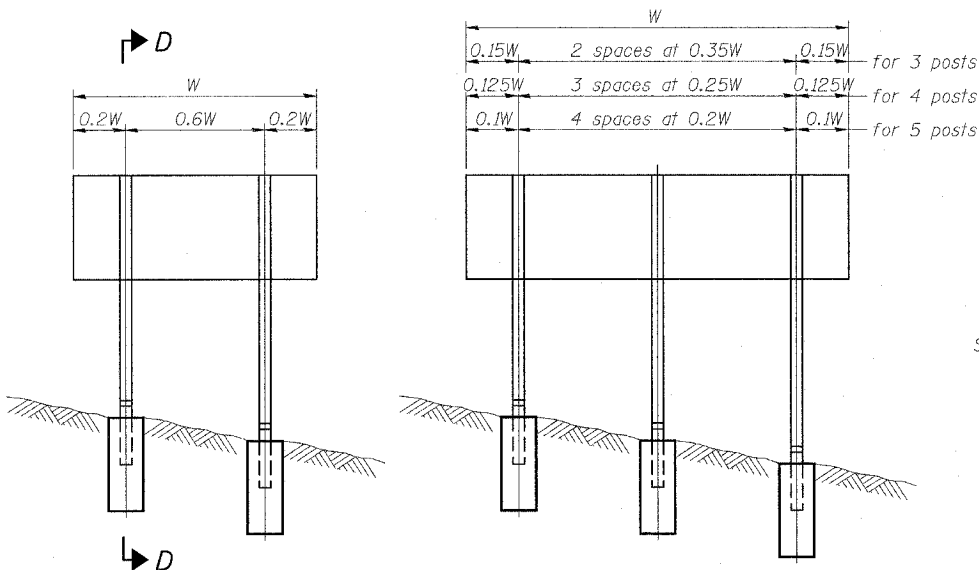
NUMBER	REVISION	DATE

DETAILS FOR 10" φ SUPPORT FRAME

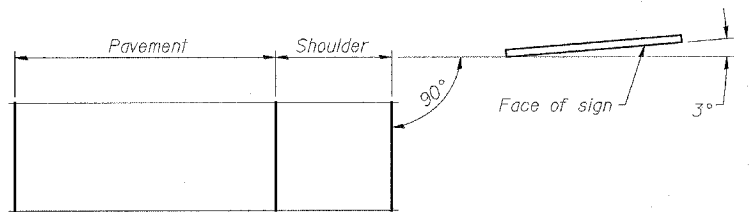
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NAME	DATE	
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		SCALE: VERT. NONE HORIZ.
		DRAWN BY CHECKED BY

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 USER NAME = muellet

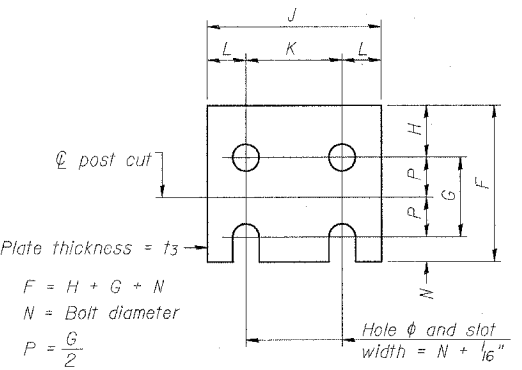
F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64		(41-3)HBK	JEFFERSON		264
STA.		TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



ELEVATION

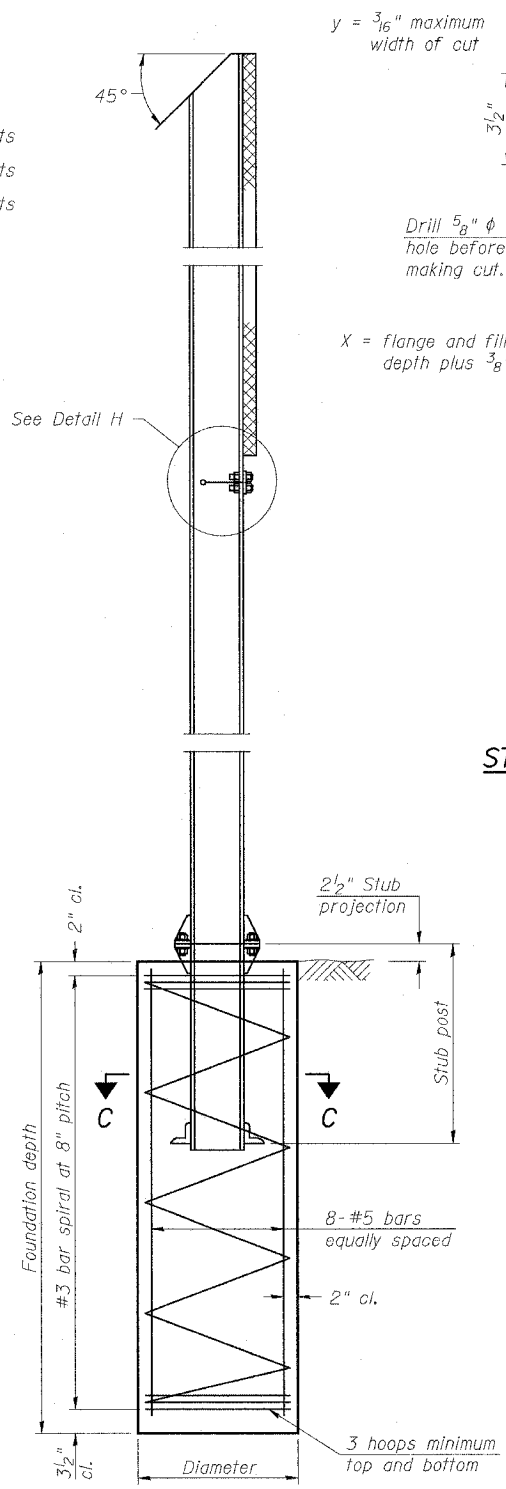


LOCATION SKETCH

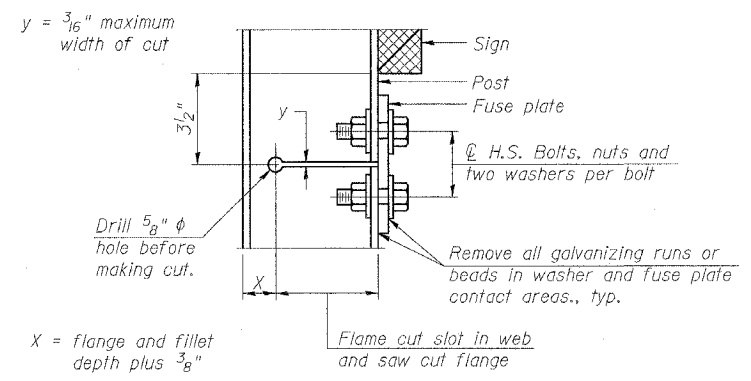


FUSE PLATE DETAIL
(Install with notches down.)

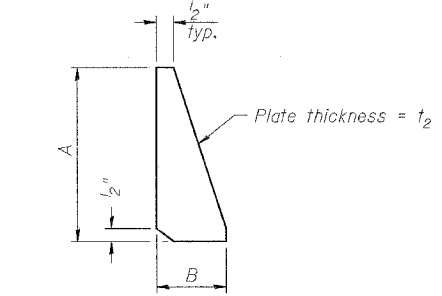
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"



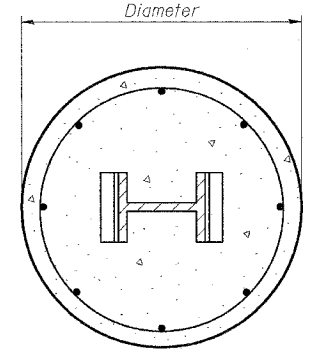
SECTION D-D



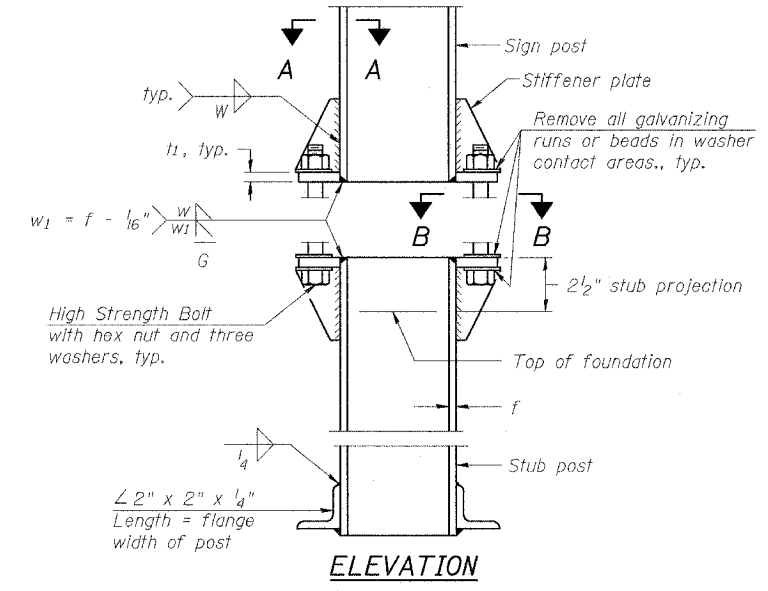
DETAIL H



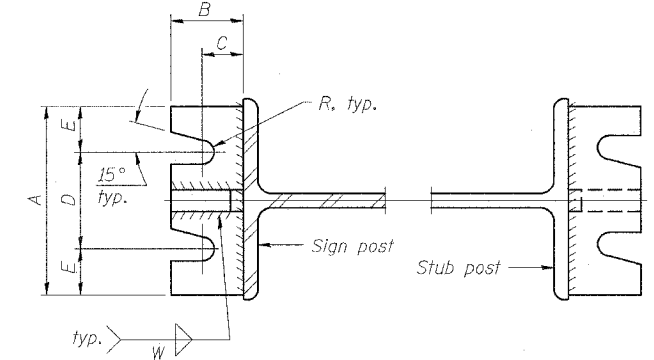
STIFFENER PLATE DETAIL
(See table for dimensions.)



SECTION C-C

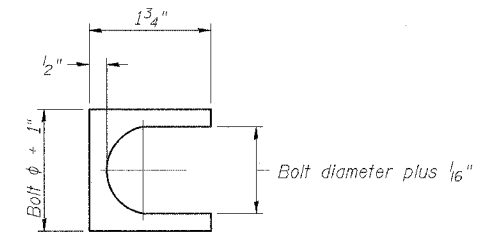


ELEVATION SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M11. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

NUMBER	REVISION	DATE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS SCALE: VERT. NONE HORIZ. DATE DRAWN BY CHECKED BY

(Sheet 1 of 2)

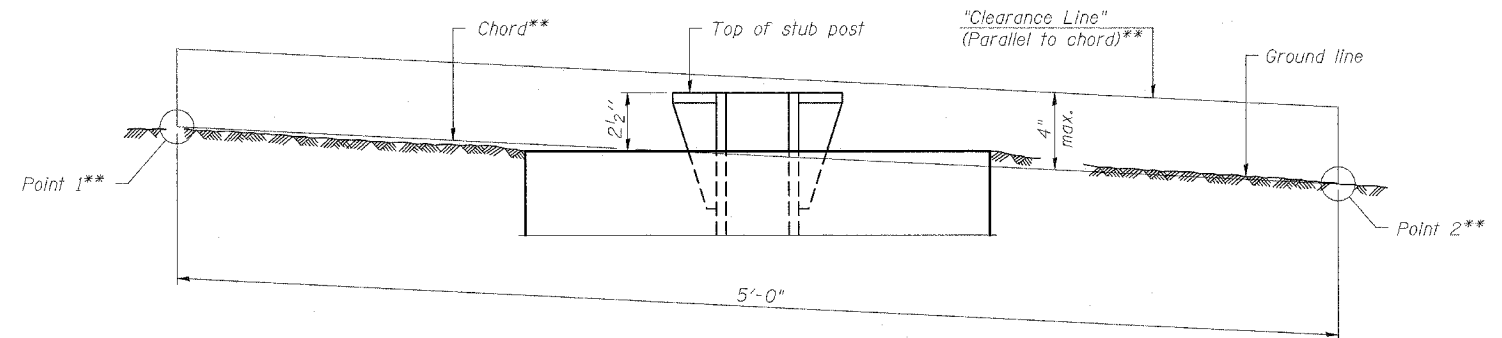
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON		265
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)															
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1 1/4"	4"	2 1/4"	7/8"	1 1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1 1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	11/32"	5 1/4"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	11/32"	5 1/4"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	11/32"	5 3/4"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	11/32"	5 3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	11/32"	5 3/8"	6 3/4"	3 1/2"	1 5/8"	1 1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	11/32"	5 3/8"	6 3/4"	3 1/2"	1 5/8"	1 1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	11/32"	5 3/8"	7"	3 1/2"	1 3/4"	1 1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE												
	Sign Depth												
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"	5/8" x 2"
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"
W12x26	---	---	---	---	---	5/8" x 2 1/4"	---	---	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W14x38	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	---	---	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

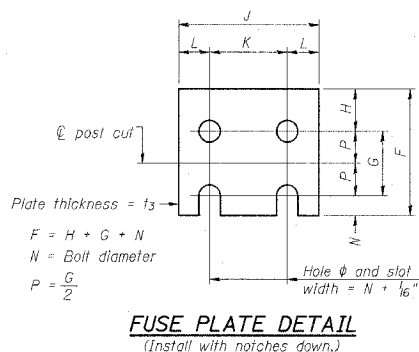
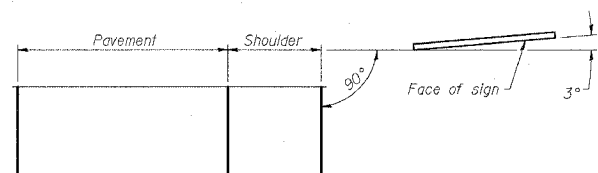
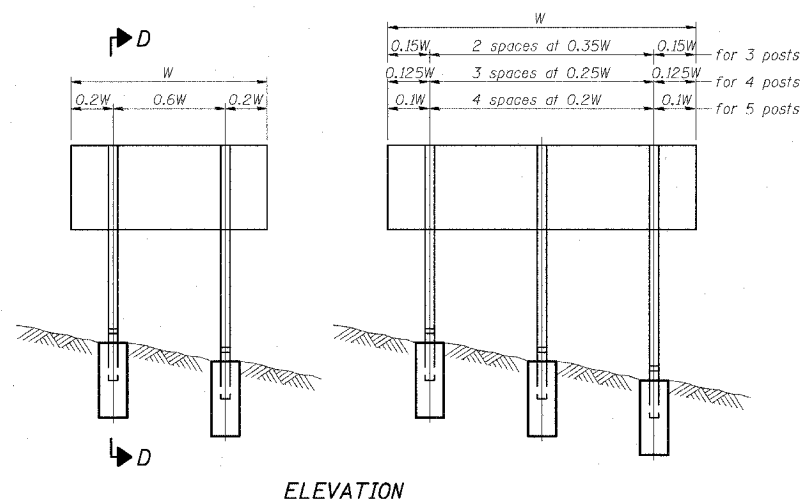
- (1) Quantity includes all concrete necessary for one foundation.
- (2) Includes reinforcement bars and spiral hooping for one foundation.

(Sheet 2 of 2)

NUMBER	REVISION	DATE

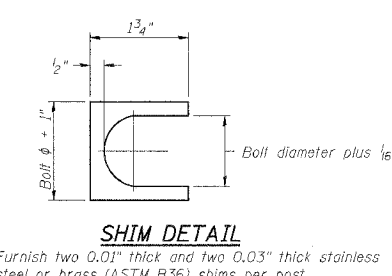
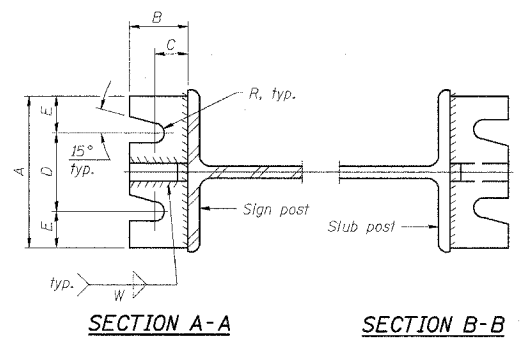
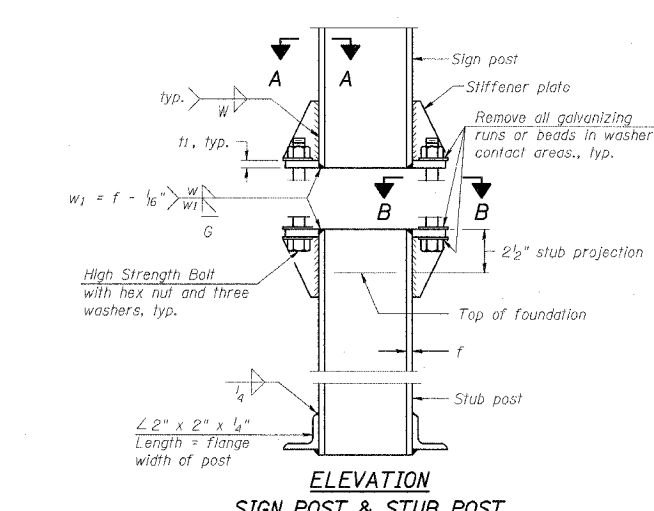
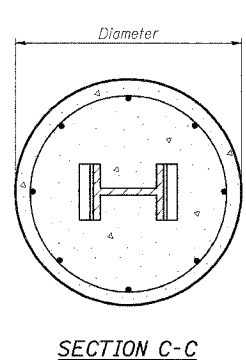
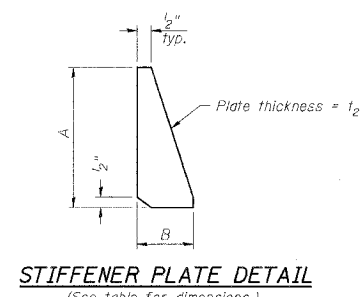
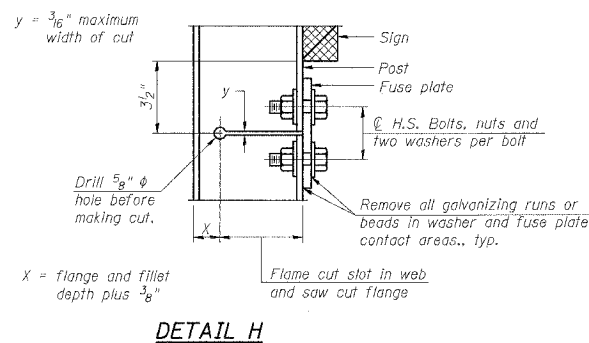
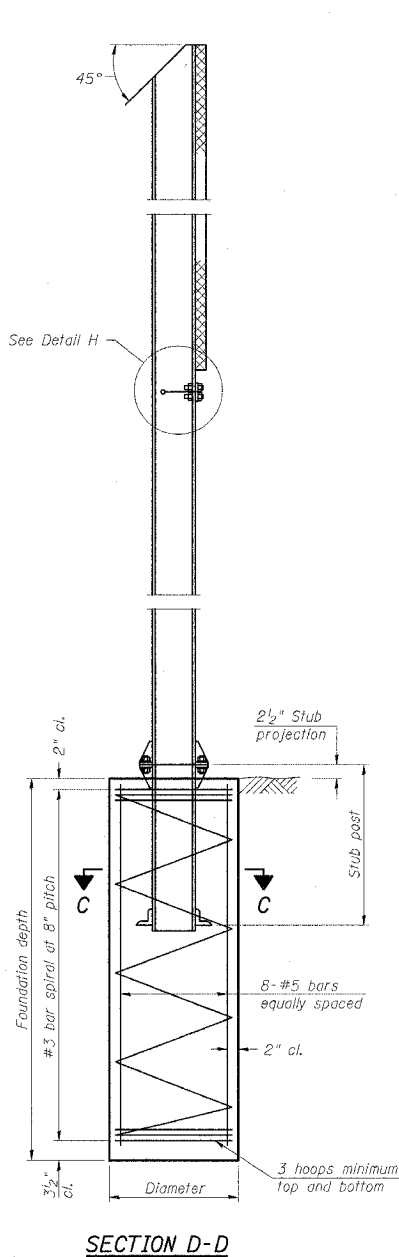
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center">BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES</p> <p>SCALE: VERT. NONE HORIZ. DATE</p> <p>DRAWN BY CHECKED BY</p>

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 USER NAME = russellor



FUSE PLATE DATA		
N = Bolt Diameter	G	H

NUMBER	REVISION	DATE



GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(f)(3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
 Structural steel - 20,000 p.s.i.
 Reinforcing steel - 20,000 p.s.i.
 Concrete - 1,400 p.s.i.
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

(Sheet 1 of 2)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS SCALE: VERT. NONE HORIZ. DATE DRAWN BY CHECKED BY

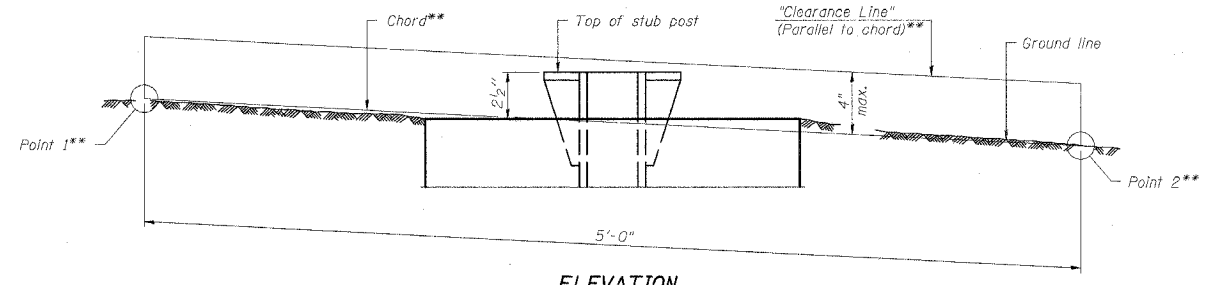
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	267
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA							FUSE PLATE DATA						
	Foundation		Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃
	Diameter	Minimum Depth	Concrete (1) cu. yds.	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length															

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE												
	Sign Depth												
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"



**ELEVATION
GROUND LINE & STUB POST**

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- (1) Quantity Includes all concrete necessary for one foundation.
- (2) Includes reinforcement bars and spiral hooping for one foundation.

(Sheet 2 of 2)

NUMBER	REVISION	DATE

BAW-A-2 1-7-05

REVISIONS		NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION	
					ILLINOIS DEPARTMENT OF TRANSPORTATION
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DATE		DATE			

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	263
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log

Sign Truss Soil Borings Over FAI 57

Sheet 1 of 1

Route: FAI 57/64 Structure Number: Date: 11/20/2006
 Section (41-3)HBK Bored By: Bryan Keller
 County: Jefferson Location: Checked By: Rob Graeff

Boring No 3-S Station 702+50 Offset 3' Rt. Ground Surface 98.0 Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: Hrs:	D E P T H	B L O W	Qu tsf	W%
Very stiff, very moist, brown, Silty Clay A-6									
		2							
		6	2.9S	22					
		9							
93.5									
Stiff, moist, brown, Silty Clay A-6 with some Gravel	5.0	3			30.0				
		7	1.8S	17					
		7							
91.0									
Hard, dry, brown, Sandstone		100/3"							
10.0					35.0				
Hard, dry, brown, Sandstone		100/9"							
15.0					40.0				
Hard, dry, grey, Sandy Clay Shale	80.0	100/7"							
Bottom of hole = 18.0 ft									
No free water observed.	20.0				45.0				
Elevation referenced to CL Sta 702+50 NB. Assume Ele = 100.0 ft									
To convert "N" values to "N60" values multiply by 1.25.									
25.0					50.0				

N-Std Penetr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log

Sign Truss Soil Borings Over FAI 57

Sheet 1 of 1

Route: FAI 57/64 Structure Number: Date: 11/21/2006
 Section (41-3)HBK Bored By: Bryan Keller
 County: Jefferson Location: Checked By: Rob Graeff

Boring No 4-S Station 704+40 Offset 3' Lt. Ground Surface 98.9 Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: Ground Water Elevation when Drilling At Completion At: Hrs:	D E P T H	B L O W	Qu tsf	W%
Very stiff, moist, brown, Silty Clay A-6									
		6							
		9	3.3B	17					
		9							
92.4									
Very stiff, moist, brown mottled grey, Silty Clay to Clay A7-6		4			30.0				
	5.0	5	2.1S	19					
		7							
92.4									
Very stiff, moist, brown mottled grey, Silty Clay to Clay A7-6		2							
		5	3.5S	18					
		8							
89.9									
Hard, moist, brown mottled grey, Silty Clay to Clay A7-6 with some Gravel		4			35.0				
	10.0	9	4.5B	17					
		13							
87.4									
Hard, dry, brown, Sandstone		100/5"							
15.0					40.0				
Hard, dry, brown, Sandstone	81.9	100/2"							
Bottom of hole = 17.0 ft									
No free water observed.									
Elevation referenced to CL Sta 702+50 NB. Assume Ele = 100.0 ft	20.0				45.0				
To convert "N" values to "N60" values multiply by 1.25.									
25.0					50.0				

N-Std Penetr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrrometer)

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	270
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SIGNS

LOCATION	SIGN PANEL - TYPE 3 SQ FT	CONCRETE FOUNDATION, GROUND MOUNT CU YD	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY POUND	CONCRETE FOUNDATIONS CU YD	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6") FOOT	OVERHEAD SIGN WALKWAY, TYPE A FOOT	REMOVE SIGN COMPLETE EACH	REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH	REMOVE SIGN PANEL EACH
INTERSTATE 57/64									
634B+00 RT - CAMPING/ATTRACTIONS (SIGN #1)	240	4.18	2125						
634B+00 RT - SECOND RIGHT (SIGN #2)	50								
642B+00 RT - LODGING (SIGN #3)	200	2.82	1394						
642B+00 RT - SECOND RIGHT (SIGN #2)	50								
650+00 RT - VETERANS MEM 1 MI (SIGN #4)	162.75	2.36	1017						
658+00 RT - LODGING (SIGN #5)	200	4.18	2193						
658+00 RT - SECOND RIGHT (SIGN #2)	50								
663+21 RT							1	2	
666+00 RT - FOOD (SIGN #6)	200	4.18	2178						
666+00 RT - SECOND RIGHT (SIGN #2)	50								
674+00 RT - VETERANS MEM 1/2 MI (SIGN #7)	162.75	2.36	1054				1	3	
681+90 RT							1	3	
682+00 RT - FOOD (SIGN # 8)	200	4.18	2254						
682+00 RT - SECOND RIGHT (SIGN #2)	50								
690+00 RT - GAS (SIGN #9)	150	2.36	986				1	3	
690+00 RT - SECOND RIGHT (SIGN #9A)	37.5								
698+00 RT							1	2	
700+50 RT - PROPOSED TRUSS				74	82	37.5			
VETERANS MEM (SIGN #10)	157.25 *								
ILL 15 3/4 MI (SIGN #11)	196 *								
716+00 RT - MT VERNON AIRPORT (#12)	80.5	1.4	564				1	2	
722+70 RT							1	2	
729+35 RT							1	2	
736+00 RT							1	2	
740+40 LT - PROPOSED TRUSS				74	91	48.5			
VETERANS MEM (SIGN #13)	157.25 *								
64/57 JUNCTION (SIGN #14)	300 *								
RAMP B STATION 322+00 RT - IL 15 1/4 MI (SIGN #15)	196	2.54	1378						
759+00 LT - VETERANS MEM 1/4 MI (SIGN #16)	162.75	2.36	1028						
STA 789+15 LT- EXISTING TRUSS									2
ILL 15 (SIGN #17)	198 *								
VETERANS MEM 3/4 MI (SIGN #18)	162.75 *								
VETERANS MEMORIAL DRIVE									
43+00 RT - (SIGN #19)	238	4.18	2175						
57N - 64W EFFINGHAM EAST ST LOUIS									
57S - 64E CAIRO EVANSVILLE									
45+35 LT - (SIGN #20)	119	3.8	2094						
57N - 64E CAIRO EVANSVILLE									
47+70 RT - (SIGN #21)	72	1.4	735						
57N - 64W DOUBLE ARROWS									
51+50 LT - (SIGN #22)	72	3.6	1215						
57S- 64E COUBLE ARROWS									
54+00 RT - (SIGN #23)	119	3.6	1239						
57N - 64W EFFINGHAM EAST ST LOUIS									
56+30 LT - (SIGN #24)	238	4.46	3182						
57S - 64E CAIRO EVANSVILLE									
57N - 64W EFFINGHAM EAST ST LOUIS									
TOTALS	4272	54	26811	148	173	86	9	21	2

* PROPOSED SIGN PANELS PLACED ON TRUSSES (1171.25 SQ FT) WILL BE PAID FOR AS 100% STATE. A FLEXIBLE COLORED SUPER-HIGH EFFICIENCY FULL CUBE RETROFLECTIVE SHEETING WILL BE APPLIED TO THESE PANELS, SEE SPECIAL PROVISIONS FOR DETAILS.

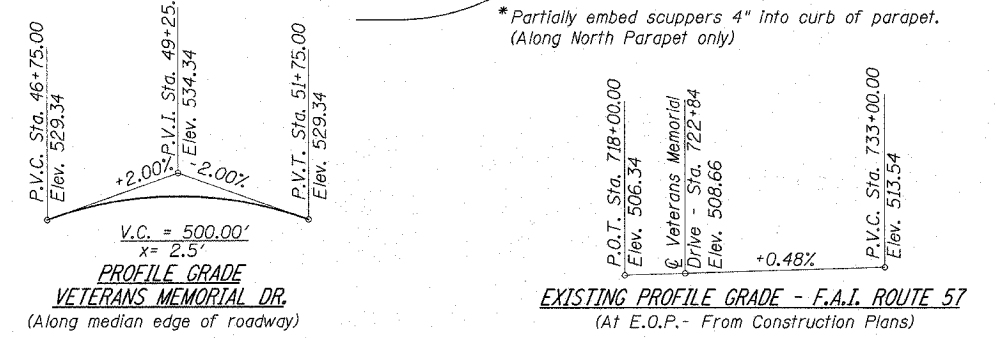
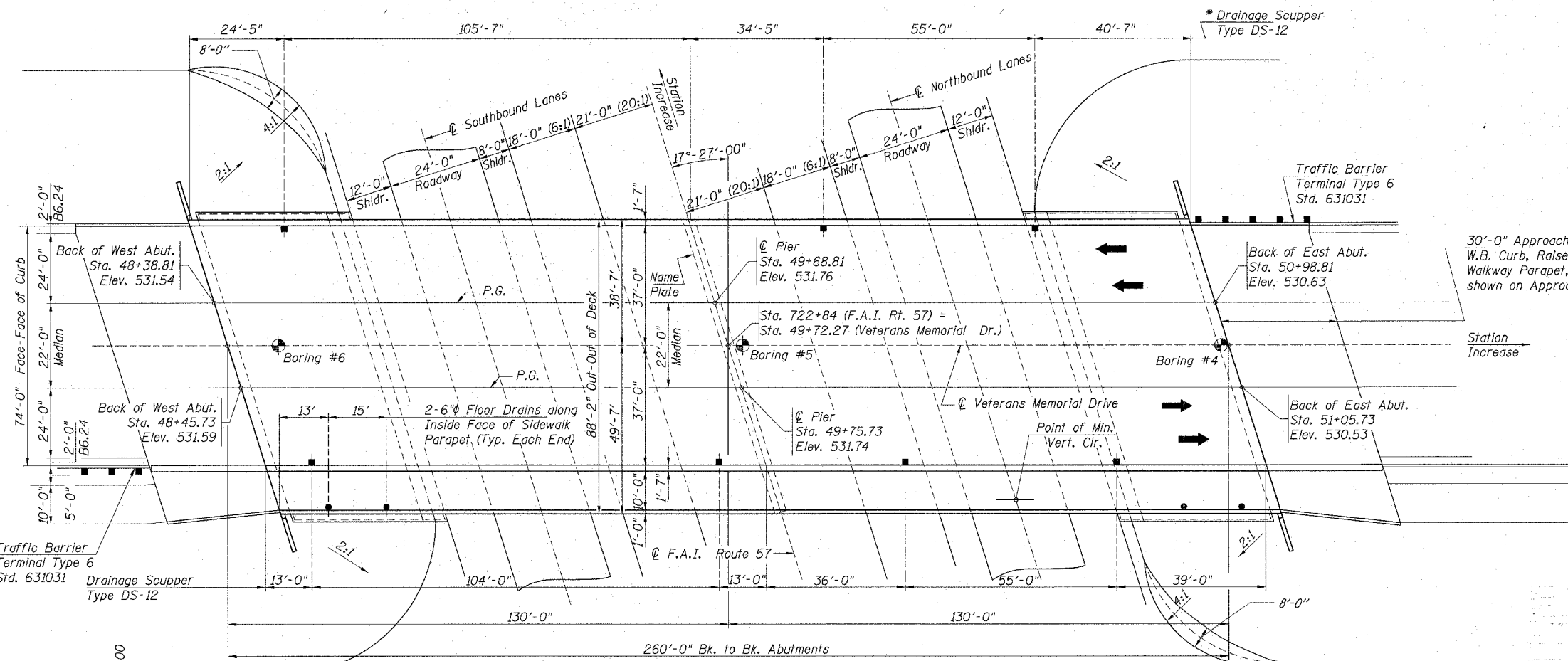
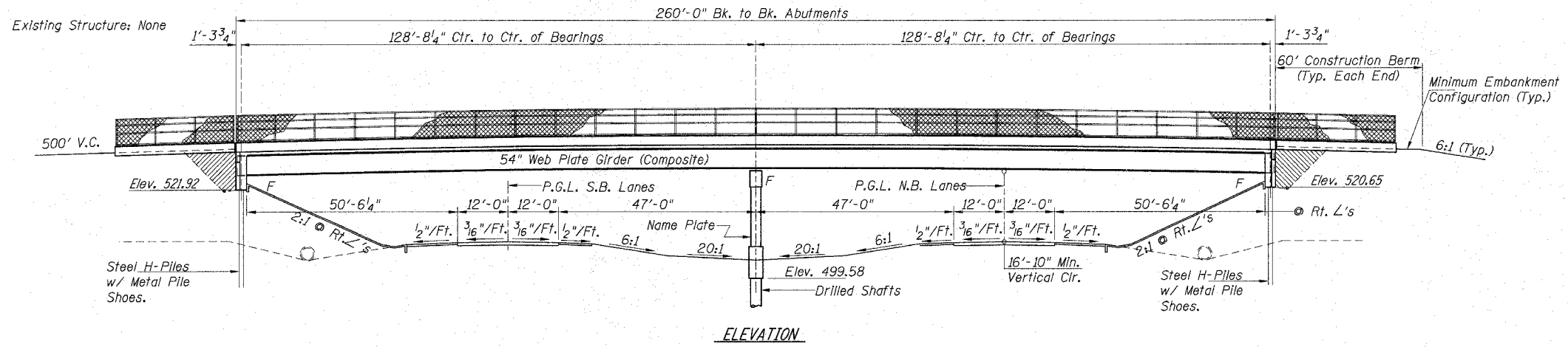
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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DATE	CHECKED BY	

Bench Mark Data: #9805-Top of Iron Pin, flush with ground, located 21.6 ft. east of centerline of Wells By-Pass, 7.9 ft. west of fence corner post, and 360 ft. north of Graham Road. Elev. 507.67

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	271
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 98963				

Sheet 1 of 25



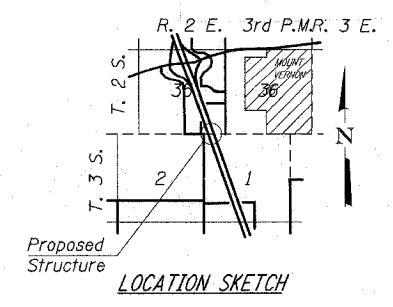
PLAN

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES
 $f_c' = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_y = 50$ K.s.i. (AASHTO M 270, Gr. 50)
 $f_y = 36$ K.s.i. (AASHTO M 270, Gr. 36)

LOADING HS20-44
Allow for 50 lbs./sq.ft. for future wearing surface

SEISMIC DATA
 Seismic Performance Category = B
 Bedrock Acceleration Coefficient (A) = 0.10g
 Site Coefficient (S) = 1.0



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	496	496
Structure Excavation	Cu. Yd.	-	576	576
Concrete Structures	Cu. Yd.	-	285.8	285.8
Concrete Superstructure	Cu. Yd.	814.5	-	814.5
Bridge Deck Grooving	Sq. Yd.	1387	-	1387
Protective Coat	Sq. Yd.	2853	-	2853
Furnishing and Erecting Structural Steel	L. Sum	1	-	-
Stud Shear Connectors	Each	5280	-	5280
Reinforcement Bars, Epoxy Coated	Pound	195970	73440	269410
Reinforcement Bars	Pound	-	4970	4970
Slopedwall 4 Inch	Sq. Yd.	-	971	971
Furnishing Steel Piles HP 12x84	Foot	-	990	990
Driving Piles	Foot	-	990	990
Test Pile Steel HP 12x84	Each	-	2	2
Pile Shoes	Each	-	24	24
Name Plates	Each	1	-	1
Drainage Scupper, DS-12	Each	7	-	7
Bar Splacers	Each	174	-	174
Drilled Shaft in Soil	Cu. Yd.	-	68.4	68.4
Drilled Shaft in Rock	Cu. Yd.	-	16.3	16.3
Bridge Fence Railing	Foot	260	-	260
Parapet Railing	Foot	260	-	260
Floor Drains	Each	4	-	4
Pipe Underdrains for Structures 4"	Foot	-	311	311
Geocomposite Wall Drain	Sq. Yd.	-	187	187
Concrete Encasement	Cu. Yd.	-	8.4	8.4

STATION 49+72.27
 BUILT BY
 STATE OF ILLINOIS
 SEC. (41-3)HBK
 F.A.I. RTE. 57/64
 LOADING HS20
 STR. NO. 041-0108
NAME PLATE
 See Std. 515001



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

SIGNATURE:
 DATE SIGNED: 3/21/07
 LIC. EXP. DATE: 11/30/08

GENERAL PLAN and ELEVATION
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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JOB NO. 98S2019A
 DATE 03-14-07

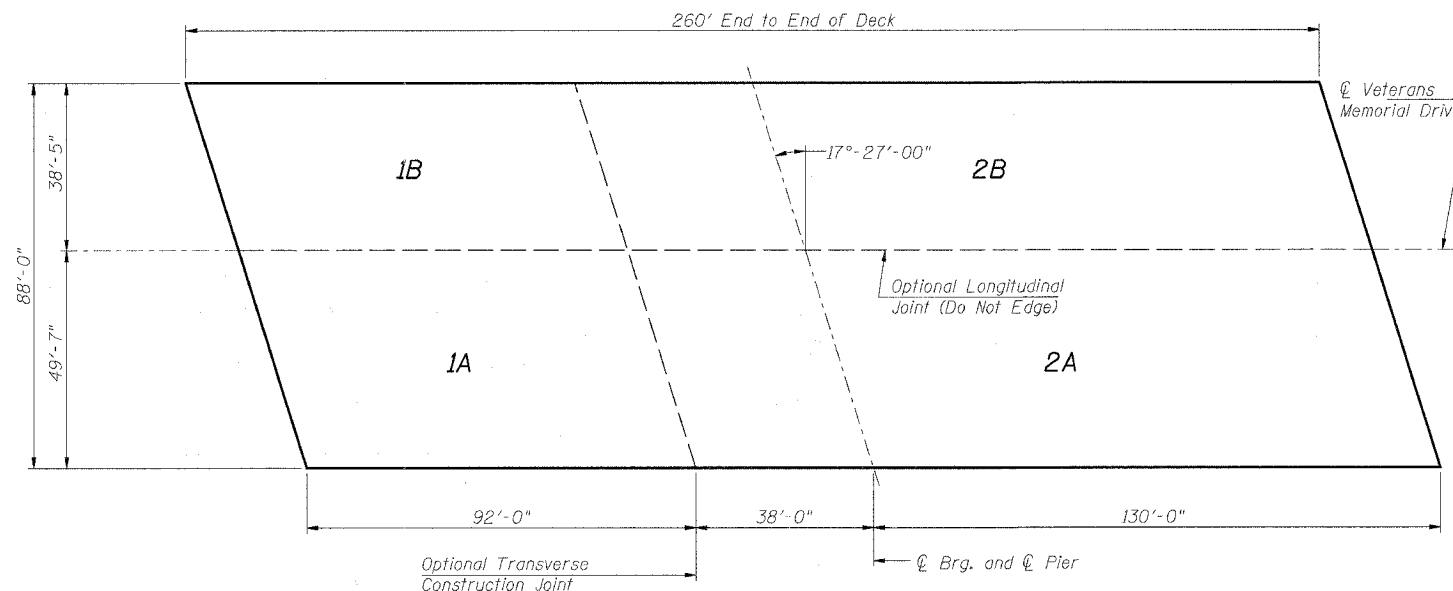
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	41-3)HBK	JEFFERSON	518	272
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

Sheet 2 of 25

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel: AASHTO M270 Grade 36 = 50280 lbs.
AASHTO M270 Grade 50 = 708350 lbs.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
- Reinforcement bars designated (E) shall be epoxy coated.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.
- When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".
- Slipforming of parapet at south edge of structure will not be allowed.

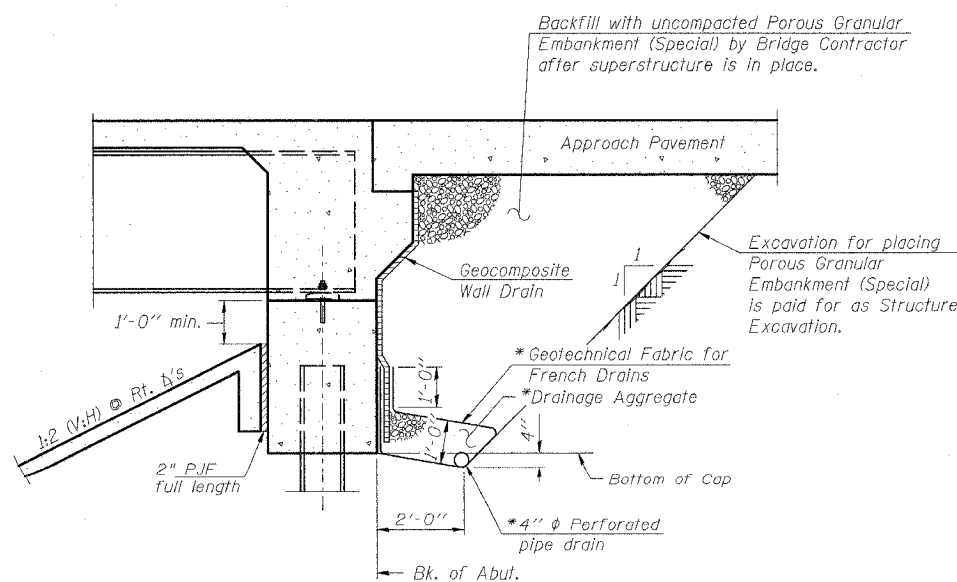


DECK POURING SEQUENCE

The concrete deck segments shall be poured in the numerical order shown above.

INDEX OF SHEETS

- GENERAL PLAN and ELEVATION
- GENERAL NOTES
- TOP of SLAB ELEVATIONS (Sheet 1)
- TOP of SLAB ELEVATIONS (Sheet 2)
- TOP of SLAB ELEVATIONS (Sheet 3)
- TOP of WEST APPROACH SLAB ELEVATIONS
- TOP of EAST APPROACH SLAB ELEVATIONS
- SUPERSTRUCTURE
- RAISED MEDIAN DETAILS
- PARAPET DETAILS
- END DIAPHRAGM DETAILS
- SUPERSTRUCTURE DETAILS
- BRIDGE FENCE RAILING PARAPET MOUNTED BICYCLE RAILING
- DRAINAGE SCUPPER, DS-12
- STRUCTURAL STEEL
- STRUCTURAL STEEL DETAILS
- BEARING DETAILS
- WEST ABUTMENT
- EAST ABUTMENT
- PIER DETAILS (Sheet 1 of 2)
- PIER DETAILS (Sheet 2 of 2)
- BAR SPLICER ASSEMBLY DETAILS
- PILE DETAILS
- BORINGS

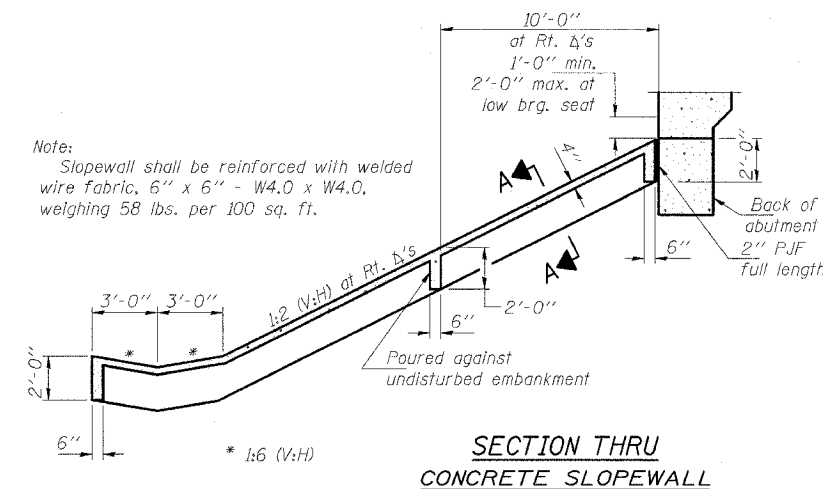


SECTION THRU INTEGRAL ABUTMENT

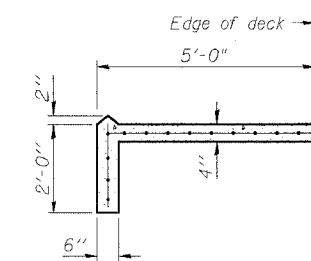
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* Included in the cost of Pipe Underdrains for Structures 4".

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION THRU CONCRETE SLOPEWALL



SECTION A-A

GENERAL NOTES
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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JOB NO.

98S2019A

DATE

03-14-07

March 2007 Submittal
05/03/07 03:43 PM
RFL/EB

LAYOUT	MMK	05/12/07
DRAWN	DAB	05/12/07
REVIEWED		

LAYOUT	GBR	02/02/04
DRAWN	TRD	02/02/04
REVIEWED	TEH	02/02/04

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+31.164	35.333	531.001	531.001
⊕ Brg.	48+32.474	35.333	531.011	531.011
a	48+42.474	35.333	531.081	531.129
b	48+52.474	35.333	531.143	531.240
c	48+62.474	35.333	531.197	531.342
d	48+72.474	35.333	531.243	531.404
e	48+82.474	35.333	531.281	531.448
f	48+92.474	35.333	531.311	531.484
g	49+02.474	35.333	531.333	531.491
h	49+12.474	35.333	531.347	531.474
i	49+22.474	35.333	531.353	531.449
j	49+32.474	35.333	531.351	531.418
k	49+42.474	35.333	531.341	531.385
m	49+52.474	35.333	531.323	531.343
⊕ Brg. Pier	49+61.164	35.333	531.301	531.301
n	49+71.164	35.333	531.268	531.291
p	49+81.164	35.333	531.227	531.274
q	49+91.164	35.333	531.178	531.248
r	50+01.164	35.333	531.121	531.221
s	50+11.164	35.333	531.056	531.187
t	50+21.164	35.333	530.983	531.146
u	50+31.164	35.333	530.903	531.075
v	50+41.164	35.333	530.814	530.980
w	50+51.164	35.333	530.717	530.877
x	50+61.164	35.333	530.612	530.751
y	50+71.164	35.333	530.499	530.589
z	50+81.164	35.333	530.378	530.420
⊕ Brg.	50+89.854	35.333	530.266	530.266
Bk. East Abut.	50+91.164	35.333	530.249	530.249

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+33.730	27.167	531.183	531.183
⊕ Brg.	48+35.041	27.167	531.193	531.193
a	48+45.041	27.167	531.261	531.309
b	48+55.041	27.167	531.321	531.418
c	48+65.041	27.167	531.373	531.518
d	48+75.041	27.167	531.417	531.578
e	48+85.041	27.167	531.453	531.620
f	48+95.041	27.167	531.481	531.654
g	49+05.041	27.167	531.501	531.659
h	49+15.041	27.167	531.513	531.640
i	49+25.041	27.167	531.517	531.612
j	49+35.041	27.167	531.513	531.580
k	49+45.041	27.167	531.501	531.544
m	49+55.041	27.167	531.481	531.501
⊕ Brg. Pier	49+63.730	27.167	531.457	531.457
n	49+73.730	27.167	531.422	531.445
p	49+83.730	27.167	531.379	531.425
q	49+93.730	27.167	531.328	531.398
r	50+03.730	27.167	531.269	531.369
s	50+13.730	27.167	531.202	531.333
t	50+23.730	27.167	531.127	531.289
u	50+33.730	27.167	531.044	531.216
v	50+43.730	27.167	530.953	531.119
w	50+53.730	27.167	530.854	531.014
x	50+63.730	27.167	530.747	530.886
y	50+73.730	27.167	530.632	530.722
z	50+83.730	27.167	530.509	530.551
⊕ Brg.	50+92.420	27.167	530.396	530.396
Bk. East Abut.	50+93.730	27.167	530.378	530.378

GIRDER 3

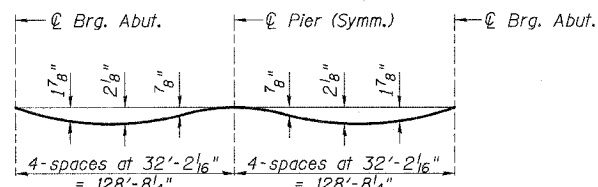
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+36.297	19.000	531.365	531.365
⊕ Brg.	48+37.607	19.000	531.375	531.375
a	48+47.607	19.000	531.440	531.489
b	48+57.607	19.000	531.498	531.595
c	48+67.607	19.000	531.548	531.694
d	48+77.607	19.000	531.590	531.751
e	48+87.607	19.000	531.624	531.791
f	48+97.607	19.000	531.650	531.823
g	49+07.607	19.000	531.668	531.826
h	49+17.607	19.000	531.678	531.805
i	49+27.607	19.000	531.680	531.775
j	49+37.607	19.000	531.674	531.741
k	49+47.607	19.000	531.660	531.703
m	49+57.607	19.000	531.637	531.658
⊕ Brg. Pier	49+66.297	19.000	531.612	531.612
n	49+76.297	19.000	531.575	531.598
p	49+86.297	19.000	531.530	531.577
q	49+96.297	19.000	531.477	531.547
r	50+06.297	19.000	531.416	531.515
s	50+16.297	19.000	531.347	531.478
t	50+26.297	19.000	531.270	531.432
u	50+36.297	19.000	531.185	531.357
v	50+46.297	19.000	531.091	531.258
w	50+56.297	19.000	530.990	531.150
x	50+66.297	19.000	530.881	531.020
y	50+76.297	19.000	530.764	530.855
z	50+86.297	19.000	530.639	530.681
⊕ Brg.	50+94.987	19.000	530.524	530.524
Bk. East Abut.	50+96.297	19.000	530.506	530.506

PROFILE GRADE LINE (W.B.L.)

Sheet 3 of 25

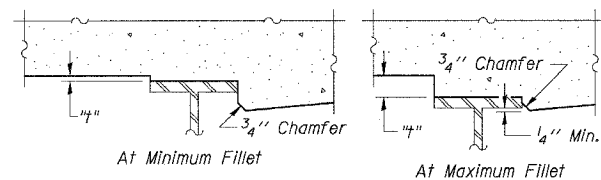
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+38.813	11.000	531.543	531.543
⊕ Brg.	48+40.123	11.000	531.552	531.552
a	48+50.123	11.000	531.616	531.664
b	48+60.123	11.000	531.672	531.769
c	48+70.123	11.000	531.720	531.865
d	48+80.123	11.000	531.759	531.920
e	48+90.123	11.000	531.791	531.958
f	49+00.123	11.000	531.815	531.989
g	49+10.123	11.000	531.831	531.989
h	49+20.123	11.000	531.839	531.966
i	49+30.123	11.000	531.839	531.935
j	49+40.123	11.000	531.831	531.898
k	49+50.123	11.000	531.815	531.858
m	49+60.123	11.000	531.791	531.811
⊕ Brg. Pier	49+68.813	11.000	531.763	531.763
n	49+78.813	11.000	531.724	531.748
p	49+88.813	11.000	531.677	531.724
q	49+98.813	11.000	531.622	531.692
r	50+08.813	11.000	531.559	531.659
s	50+18.813	11.000	531.488	531.619
t	50+28.813	11.000	531.409	531.571
u	50+38.813	11.000	531.322	531.494
v	50+48.813	11.000	531.227	531.393
w	50+58.813	11.000	531.124	531.284
x	50+68.813	11.000	531.013	531.152
y	50+78.813	11.000	530.894	530.984
z	50+88.813	11.000	530.767	530.809
⊕ Brg.	50+97.502	11.000	530.650	530.650
Bk. East Abut.	50+98.813	11.000	530.632	530.632

Note: Offsets are from ⊕ Veterans Memorial Drive



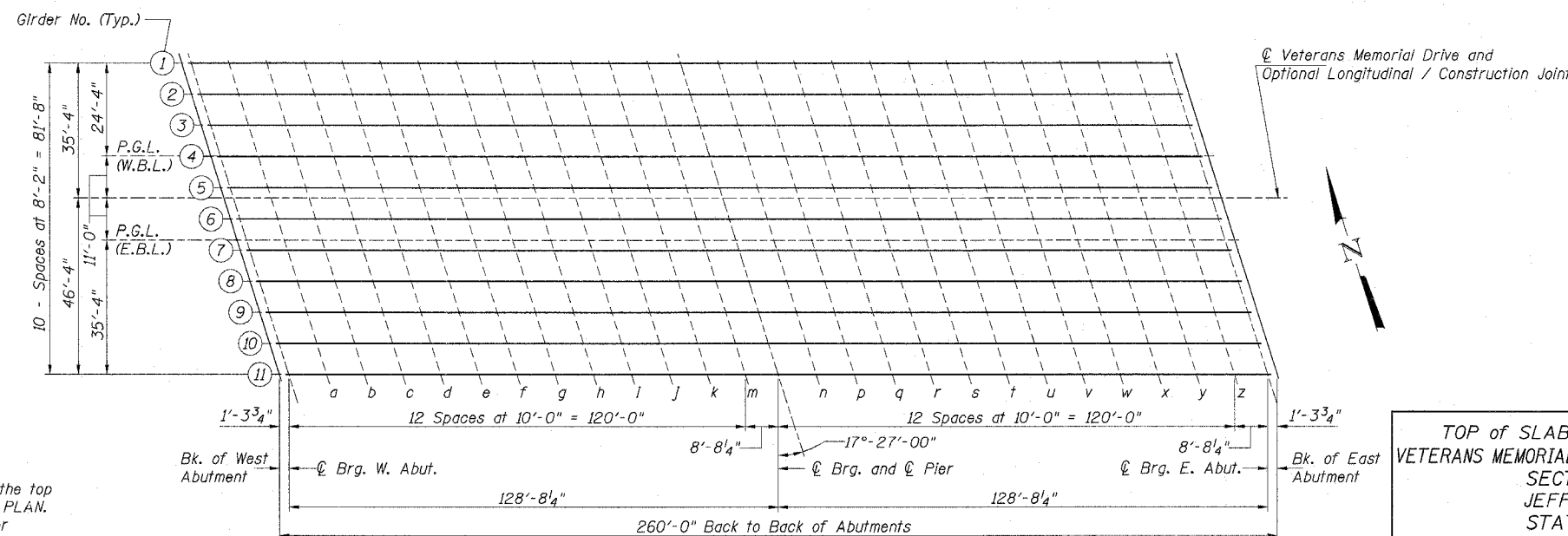
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on the tables above and on the following 2 sheets.



To determine "h": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown on the DIAGRAMATIC PLAN. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on the tables above and on the following 2 sheets, minus slab thickness, equals the fillet heights "h" above top flange of girders.

FILLET HEIGHTS



DIAGRAMATIC PLAN

TOP of SLAB ELEVATIONS (Sheet 1)
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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LAYOUT	02/07/04
REV	02/07/04
DRAWN	02/07/04
REVIEWED	02/07/04

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+38.865	10.833	531.547	531.547
C Brg.	48+40.175	10.833	531.556	531.556
a	48+50.175	10.833	531.619	531.668
b	48+60.175	10.833	531.675	531.772
c	48+70.175	10.833	531.723	531.868
d	48+80.175	10.833	531.763	531.924
e	48+90.175	10.833	531.795	531.962
f	49+00.175	10.833	531.819	531.992
g	49+10.175	10.833	531.835	531.993
h	49+20.175	10.833	531.842	531.969
i	49+30.175	10.833	531.842	531.938
j	49+40.175	10.833	531.834	531.901
k	49+50.175	10.833	531.818	531.862
m	49+60.175	10.833	531.794	531.814
C Brg. Pier	49+68.865	10.833	531.766	531.766
n	49+78.865	10.833	531.727	531.751
p	49+88.865	10.833	531.680	531.727
q	49+98.865	10.833	531.625	531.695
r	50+08.865	10.833	531.562	531.662
s	50+18.865	10.833	531.491	531.622
t	50+28.865	10.833	531.412	531.574
u	50+38.865	10.833	531.325	531.497
v	50+48.865	10.833	531.230	531.396
w	50+58.865	10.833	531.127	531.286
x	50+68.865	10.833	531.015	531.154
y	50+78.865	10.833	530.896	530.987
z	50+88.865	10.833	530.769	530.811
C Brg.	50+97.555	10.833	530.652	530.652
Bk. East Abut.	50+98.865	10.833	530.634	530.634

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+41.432	2.667	531.727	531.727
C Brg.	48+42.742	2.667	531.736	531.736
d	48+52.742	2.667	531.798	531.846
b	48+62.742	2.667	531.852	531.949
c	48+72.742	2.667	531.897	532.043
d	48+82.742	2.667	531.935	532.096
e	48+92.742	2.667	531.965	532.132
f	49+02.742	2.667	531.987	532.160
g	49+12.742	2.667	532.001	532.159
h	49+22.742	2.667	532.006	532.133
i	49+32.742	2.667	532.004	532.100
j	49+42.742	2.667	531.994	532.061
k	49+52.742	2.667	531.976	532.020
m	49+62.742	2.667	531.950	531.970
C Brg. Pier	49+71.432	2.667	531.920	531.920
n	49+81.432	2.667	531.879	531.903
p	49+91.432	2.667	531.830	531.877
q	50+01.432	2.667	531.773	531.843
r	50+11.432	2.667	531.708	531.808
s	50+21.432	2.667	531.635	531.766
t	50+31.432	2.667	531.554	531.716
u	50+41.432	2.667	531.464	531.637
v	50+51.432	2.667	531.367	531.534
w	50+61.432	2.667	531.262	531.422
x	50+71.432	2.667	531.149	531.288
y	50+81.432	2.667	531.028	531.118
z	50+91.432	2.667	530.899	530.941
C Brg.	51+00.122	2.667	530.780	530.780
Bk. East Abut.	51+01.432	2.667	530.762	530.762

**OPTIONAL LONGITUDINAL CONSTRUCTION JOINT
AND C VETERANS MEMORIAL DRIVE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+42.270	0.000	531.786	531.786
C Brg.	48+43.580	0.000	531.795	531.795
a	48+53.580	0.000	531.856	531.904
b	48+63.580	0.000	531.909	532.006
c	48+73.580	0.000	531.954	532.100
d	48+83.580	0.000	531.991	532.152
e	48+93.580	0.000	532.021	532.188
f	49+03.580	0.000	532.042	532.215
g	49+13.580	0.000	532.055	532.213
h	49+23.580	0.000	532.060	532.187
i	49+33.580	0.000	532.057	532.153
j	49+43.580	0.000	532.046	532.113
k	49+53.580	0.000	532.027	532.071
m	49+63.580	0.000	532.000	532.021
C Brg. Pier	49+72.270	0.000	531.971	531.971
n	49+82.270	0.000	531.929	531.952
p	49+92.270	0.000	531.879	531.926
q	50+02.270	0.000	531.821	531.891
r	50+12.270	0.000	531.755	531.855
s	50+22.270	0.000	531.682	531.813
t	50+32.270	0.000	531.600	531.762
u	50+42.270	0.000	531.510	531.682
v	50+52.270	0.000	531.412	531.578
w	50+62.270	0.000	531.306	531.466
x	50+72.270	0.000	531.192	531.331
y	50+82.270	0.000	531.071	531.161
z	50+92.270	0.000	530.941	530.983
C Brg.	51+00.960	0.000	530.822	530.822
Bk. East Abut.	51+02.270	0.000	530.803	530.803

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+43.999	5.500	531.688	531.688
C Brg.	48+45.309	5.500	531.696	531.696
a	48+55.309	5.500	531.756	531.804
b	48+65.309	5.500	531.807	531.904
c	48+75.309	5.500	531.851	531.997
d	48+85.309	5.500	531.887	532.048
e	48+95.309	5.500	531.915	532.082
f	49+05.309	5.500	531.935	532.108
g	49+15.309	5.500	531.946	532.105
h	49+25.309	5.500	531.950	532.077
i	49+35.309	5.500	531.946	532.041
j	49+45.309	5.500	531.933	532.001
k	49+55.309	5.500	531.913	531.957
m	49+65.309	5.500	531.885	531.905
C Brg. Pier	49+73.999	5.500	531.854	531.854
n	49+83.999	5.500	531.811	531.834
p	49+93.999	5.500	531.760	531.806
q	50+03.999	5.500	531.700	531.771
r	50+13.999	5.500	531.633	531.733
s	50+23.999	5.500	531.558	531.689
t	50+33.999	5.500	531.475	531.637
u	50+43.999	5.500	531.384	531.556
v	50+53.999	5.500	531.284	531.451
w	50+63.999	5.500	531.177	531.337
x	50+73.999	5.500	531.062	531.201
y	50+83.999	5.500	530.939	531.029
z	50+93.999	5.500	530.808	530.850
C Brg.	51+02.689	5.500	530.687	530.687
Bk. East Abut.	51+03.999	5.500	530.668	530.668

PROFILE GRADE LINE (E.B.L.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+45.728	11.000	531.589	531.589
C Brg.	48+47.038	11.000	531.597	531.597
a	48+57.038	11.000	531.655	531.704
b	48+67.038	11.000	531.706	531.803
c	48+77.038	11.000	531.748	531.893
d	48+87.038	11.000	531.782	531.943
e	48+97.038	11.000	531.809	531.976
f	49+07.038	11.000	531.827	532.000
g	49+17.038	11.000	531.837	531.996
h	49+27.038	11.000	531.840	531.967
i	49+37.038	11.000	531.834	531.930
j	49+47.038	11.000	531.821	531.888
k	49+57.038	11.000	531.799	531.843
m	49+67.038	11.000	531.769	531.790
C Brg. Pier	49+75.728	11.000	531.737	531.737
n	49+85.728	11.000	531.693	531.716
p	49+95.728	11.000	531.640	531.687
q	50+05.728	11.000	531.579	531.650
r	50+15.728	11.000	531.511	531.611
s	50+25.728	11.000	531.434	531.565
t	50+35.728	11.000	531.350	531.512
u	50+45.728	11.000	531.257	531.430
v	50+55.728	11.000	531.156	531.323
w	50+65.728	11.000	531.048	531.208
x	50+75.728	11.000	530.931	531.070
y	50+85.728	11.000	530.807	530.897
z	50+95.728	11.000	530.674	530.716
C Brg.	51+04.417	11.000	530.552	530.552
Bk. East Abut.	51+05.728	11.000	530.534	530.534


Note: Offset are from C Veterans Memorial Drive

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LAYOUT	AW	12/12/04
DRAWN	AW	12/12/04
REVIEWED	TEH	12/12/04

TOP of SLAB ELEVATIONS (Sheet 2)
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+46.566	13.667	531.541	531.541
Ⓞ Brg.	48+47.876	13.667	531.549	531.549
a	48+57.876	13.667	531.606	531.655
b	48+67.876	13.667	531.656	531.753
c	48+77.876	13.667	531.698	531.843
d	48+87.876	13.667	531.732	531.892
e	48+97.876	13.667	531.757	531.924
f	49+07.876	13.667	531.775	531.948
g	49+17.876	13.667	531.785	531.943
h	49+27.876	13.667	531.786	531.913
i	49+37.876	13.667	531.780	531.876
j	49+47.876	13.667	531.766	531.833
k	49+57.876	13.667	531.743	531.787
m	49+67.876	13.667	531.713	531.733
Ⓞ Brg. Pier	49+76.566	13.667	531.680	531.680
n	49+86.566	13.667	531.635	531.658
p	49+96.566	13.667	531.582	531.629
q	50+06.566	13.667	531.521	531.591
r	50+16.566	13.667	531.451	531.551
s	50+26.566	13.667	531.374	531.505
t	50+36.566	13.667	531.289	531.451
u	50+46.566	13.667	531.196	531.368
v	50+56.566	13.667	531.094	531.261
w	50+66.566	13.667	530.985	531.145
x	50+76.566	13.667	530.868	531.007
y	50+86.566	13.667	530.742	530.833
z	50+96.566	13.667	530.609	530.651
Ⓞ Brg.	51+05.256	13.667	530.487	530.487
Bk. East Abut.	51+06.566	13.667	530.468	530.468

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+49.133	21.833	531.393	531.393
Ⓞ Brg.	48+50.443	21.833	531.401	531.401
a	48+60.443	21.833	531.457	531.505
b	48+70.443	21.833	531.504	531.601
c	48+80.443	21.833	531.544	531.689
d	48+90.443	21.833	531.576	531.736
e	49+00.443	21.833	531.599	531.766
f	49+10.443	21.833	531.615	531.788
g	49+20.443	21.833	531.622	531.781
h	49+30.443	21.833	531.622	531.749
i	49+40.443	21.833	531.614	531.709
j	49+50.443	21.833	531.597	531.665
k	49+60.443	21.833	531.573	531.617
m	49+70.443	21.833	531.541	531.561
Ⓞ Brg. Pier	49+79.133	21.833	531.506	531.506
n	49+89.133	21.833	531.459	531.482
p	49+99.133	21.833	531.404	531.450
q	50+09.133	21.833	531.340	531.410
r	50+19.133	21.833	531.269	531.369
s	50+29.133	21.833	531.190	531.321
t	50+39.133	21.833	531.102	531.265
u	50+49.133	21.833	531.007	531.179
v	50+59.133	21.833	530.904	531.070
w	50+69.133	21.833	530.792	530.952
x	50+79.133	21.833	530.673	530.812
y	50+89.133	21.833	530.546	530.636
z	50+99.133	21.833	530.410	530.453
Ⓞ Brg.	51+07.823	21.833	530.286	530.286
Bk. East Abut.	51+09.133	21.833	530.267	530.267

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+51.700	30.000	531.245	531.245
Ⓞ Brg.	48+53.010	30.000	531.253	531.253
a	48+63.010	30.000	531.306	531.355
b	48+73.010	30.000	531.352	531.449
c	48+83.010	30.000	531.389	531.535
d	48+93.010	30.000	531.419	531.580
e	49+03.010	30.000	531.441	531.608
f	49+13.010	30.000	531.454	531.628
g	49+23.010	30.000	531.460	531.618
h	49+33.010	30.000	531.457	531.584
i	49+43.010	30.000	531.447	531.543
j	49+53.010	30.000	531.429	531.496
k	49+63.010	30.000	531.402	531.446
m	49+73.010	30.000	531.368	531.388
Ⓞ Brg. Pier	49+81.700	30.000	531.331	531.331
n	49+91.700	30.000	531.282	531.305
p	50+01.700	30.000	531.225	531.271
q	50+11.700	30.000	531.159	531.229
r	50+21.700	30.000	531.086	531.186
s	50+31.700	30.000	531.005	531.136
t	50+41.700	30.000	530.915	531.078
u	50+51.700	30.000	530.818	530.990
v	50+61.700	30.000	530.713	530.879
w	50+71.700	30.000	530.599	530.759
x	50+81.700	30.000	530.478	530.617
y	50+91.700	30.000	530.348	530.439
z	51+01.700	30.000	530.211	530.253
Ⓞ Brg.	51+10.390	30.000	530.085	530.085
Bk. East Abut.	51+11.700	30.000	530.066	530.066

GIRDER 10

Sheet 5 of 25

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+54.267	38.167	531.097	531.097
Ⓞ Brg.	48+55.577	38.167	531.104	531.104
a	48+65.577	38.167	531.155	531.204
b	48+75.577	38.167	531.199	531.296
c	48+85.577	38.167	531.234	531.380
d	48+95.577	38.167	531.262	531.423
e	49+05.577	38.167	531.282	531.449
f	49+15.577	38.167	531.293	531.466
g	49+25.577	38.167	531.297	531.455
h	49+35.577	38.167	531.292	531.419
i	49+45.577	38.167	531.280	531.375
j	49+55.577	38.167	531.259	531.326
k	49+65.577	38.167	531.231	531.274
m	49+75.577	38.167	531.194	531.215
Ⓞ Brg. Pier	49+84.267	38.167	531.156	531.156
n	49+94.267	38.167	531.105	531.128
p	50+04.267	38.167	531.045	531.092
q	50+14.267	38.167	530.978	531.048
r	50+24.267	38.167	530.903	531.002
s	50+34.267	38.167	530.819	530.950
t	50+44.267	38.167	530.728	530.890
u	50+54.267	38.167	530.628	530.801
v	50+64.267	38.167	530.521	530.687
w	50+74.267	38.167	530.405	530.565
x	50+84.267	38.167	530.282	530.421
y	50+94.267	38.167	530.151	530.241
z	51+04.267	38.167	530.011	530.053
Ⓞ Brg.	51+12.957	38.167	529.884	529.884
Bk. East Abut.	51+14.267	38.167	529.864	529.864

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	48+56.834	46.333	530.947	530.947
Ⓞ Brg.	48+58.145	46.333	530.955	530.955
a	48+68.145	46.333	531.004	531.052
b	48+78.145	46.333	531.046	531.142
c	48+88.145	46.333	531.079	531.224
d	48+98.145	46.333	531.104	531.265
e	49+08.145	46.333	531.122	531.289
f	49+18.145	46.333	531.131	531.305
g	49+28.145	46.333	531.133	531.291
h	49+38.145	46.333	531.126	531.253
i	49+48.145	46.333	531.112	531.208
j	49+58.145	46.333	531.089	531.157
k	49+68.145	46.333	531.059	531.103
m	49+78.145	46.333	531.020	531.041
Ⓞ Brg. Pier	49+86.834	46.333	530.980	530.980
n	49+96.834	46.333	530.927	530.950
p	50+06.834	46.333	530.865	530.912
q	50+16.834	46.333	530.796	530.866
r	50+26.834	46.333	530.719	530.818
s	50+36.834	46.333	530.633	530.764
t	50+46.834	46.333	530.540	530.702
u	50+56.834	46.333	530.438	530.611
v	50+66.834	46.333	530.329	530.495
w	50+76.834	46.333	530.211	530.371
x	50+86.834	46.333	530.086	530.225
y	50+96.834	46.333	529.952	530.043
z	51+06.834	46.333	529.811	529.853
Ⓞ Brg.	51+15.524	46.333	529.681	529.681
Bk. East Abut.	51+16.834	46.333	529.661	529.661

Note: Offset are From Ⓞ Veterans Memorial Drive

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 DRAWN Rvw 12/12/04
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TOP of SLAB ELEVATIONS (Sheet 3)
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+01.27	-37.00	530.71
a	48+10.64	-37.00	530.80
b	48+20.64	-37.00	530.88
Bk. West Abut.	48+30.64	-37.00	530.96

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+01.27	-35.00	530.75
a	48+11.27	-35.00	530.84
b	48+21.27	-35.00	530.93
Bk. West Abut.	48+31.27	-35.00	531.01

PROFILE GRADE LINE (W.B.L.)

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+08.81	-11.00	531.30
a	48+18.81	-11.00	531.39
b	48+28.81	-11.00	531.47
Bk. West Abut.	48+38.81	-11.00	531.54

⊕ ROADWAY (VETERANS MEMORIAL DRIVE)

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+12.27	0.00	531.55
a	48+22.27	0.00	531.64
b	48+32.27	0.00	531.72
Bk. West Abut.	48+42.27	0.00	531.79

PROFILE GRADE LINE (E.B.L.)

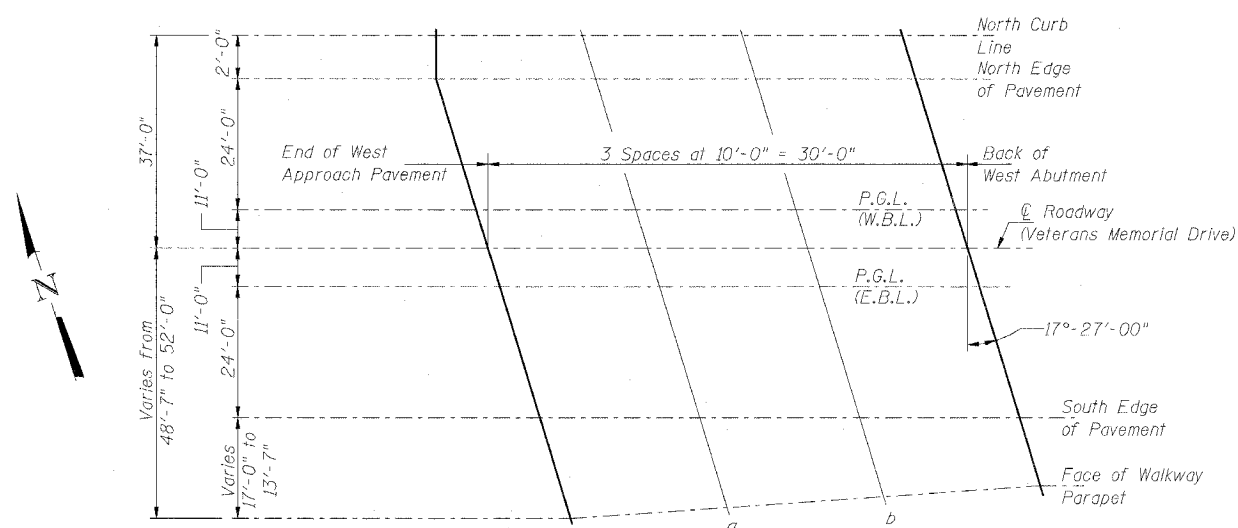
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+15.73	11.00	531.36
a	48+25.73	11.00	531.45
b	48+35.73	11.00	531.52
Bk. West Abut.	48+45.73	11.00	531.59

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+23.27	35.00	530.95
a	48+33.27	35.00	531.02
b	48+43.27	35.00	531.09
Bk. West Abut.	48+53.27	35.00	531.15

FACE OF WALKWAY PARAPET

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't.	48+28.62	52.00	530.65
a	48+38.26	50.86	530.74
b	48+47.90	49.72	530.83
Bk. West Abut.	48+57.54	48.58	530.91



DIAGRAMMATIC PLAN

Note: Offsets are from ⊕ Roadway (Veterans Memorial Drive)

TOP of WEST APPROACH SLAB ELEVATIONS
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	50+90.64	-37.00	530.22
a	51+00.64	-37.00	530.09
b	51+10.64	-37.00	529.94
End E. Appr. Pav't.	51+21.27	-37.00	529.78

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	50+91.27	-35.00	530.25
a	51+01.27	-35.00	530.12
b	51+11.27	-35.00	529.97
End E. Appr. Pav't.	51+21.27	-35.00	529.82

PROFILE GRADE LINE (W.B.L.)

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	50+98.81	-11.00	530.63
a	51+08.81	-11.00	530.49
b	51+18.81	-11.00	530.34
End E. Appr. Pav't.	51+28.81	-11.00	530.18

☉ ROADWAY (VETERANS MEMORIAL DRIVE)

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+02.27	0.00	530.80
a	51+12.27	0.00	530.66
b	51+22.27	0.00	530.50
End E. Appr. Pav't.	51+32.27	0.00	530.34

PROFILE GRADE LINE (E.B.L.)

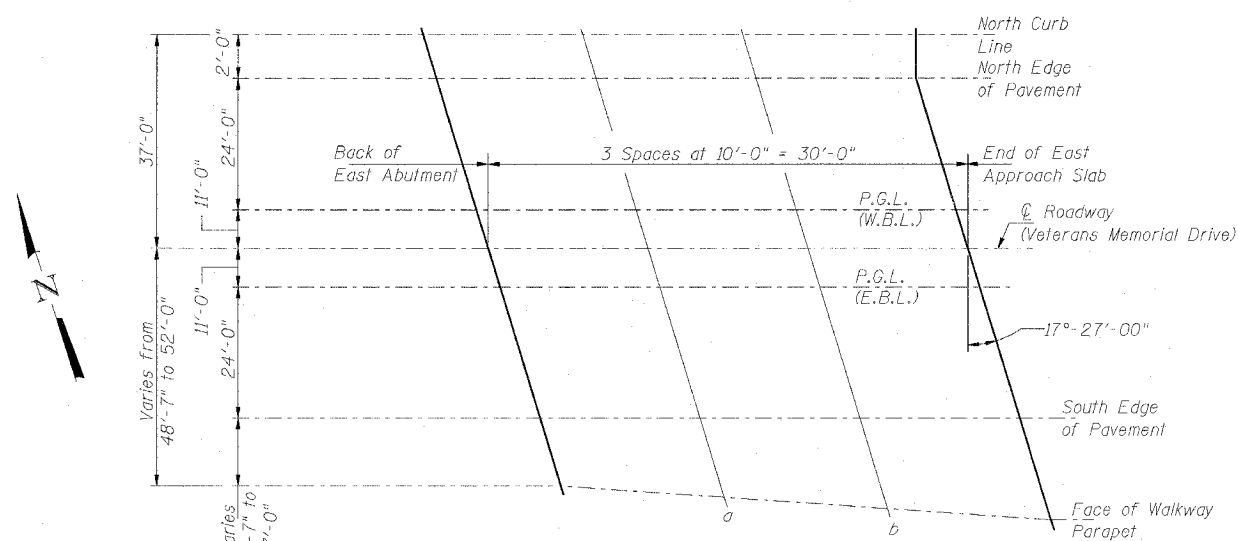
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Bk. East Abut.	51+05.73	11.00	530.53
a	51+15.73	11.00	530.38
b	51+25.73	11.00	530.23
End E. Appr. Pav't.	51+35.73	11.00	530.06

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+13.27	35.00	529.94
a	51+23.27	35.00	529.79
b	51+33.27	35.00	529.62
End E. Appr. Pav't.	51+43.27	35.00	529.45

FACE OF WALKWAY PARAPET

Location	Station	Offset	Theoretical Grade Elevations
Bk. East Abut.	51+17.54	48.58	529.61
a	51+27.90	49.72	529.42
b	51+38.26	50.86	529.22
End E. Appr. Pav't.	51+48.62	52.00	529.02



DIAGRAMMATIC PLAN

Note: Offsets are from ☉ Roadway (Veterans Memorial Drive)

TOP of EAST APPROACH SLAB ELEVATIONS
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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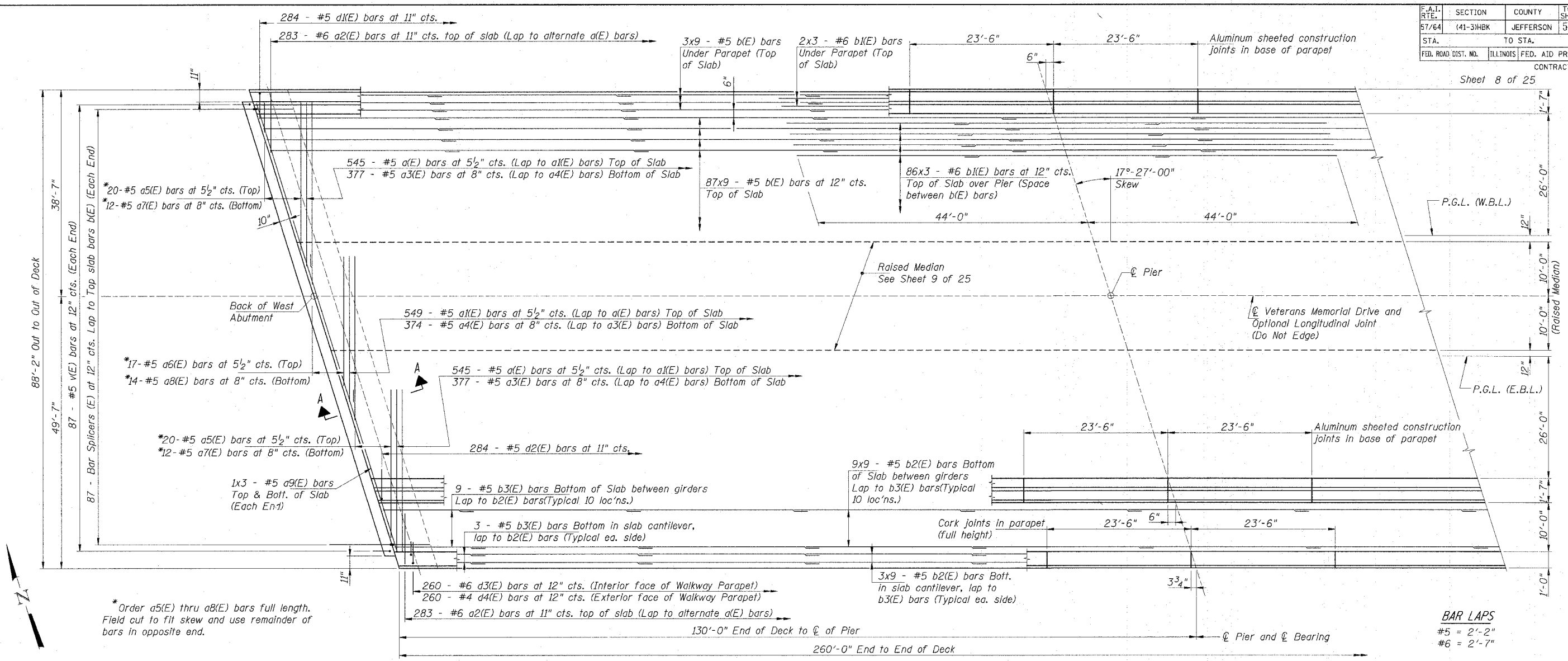
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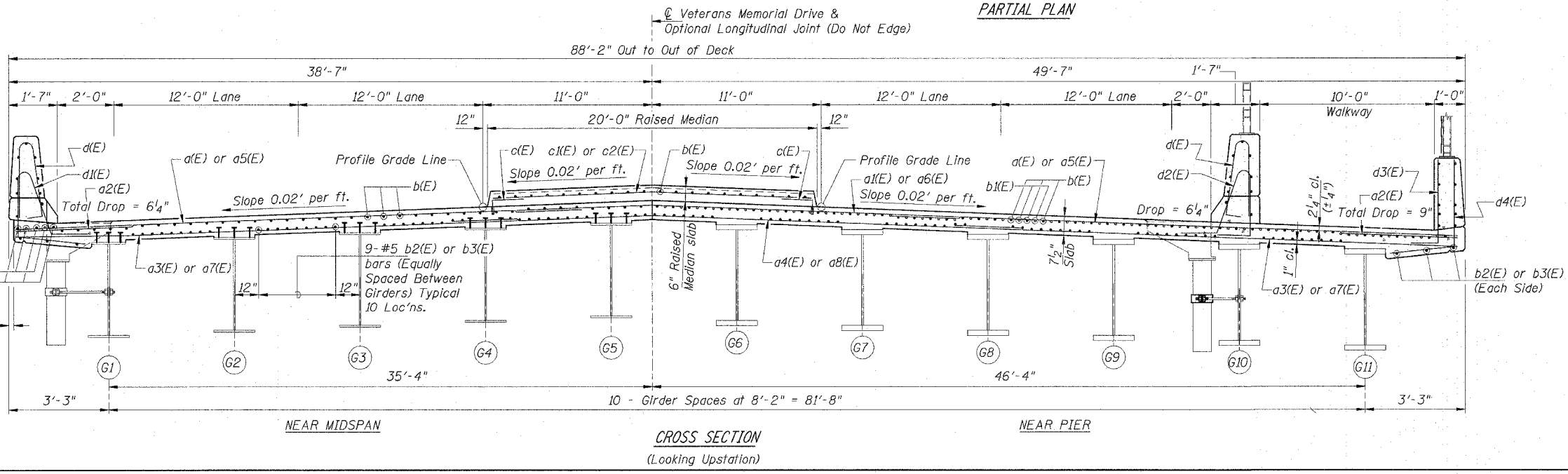
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 98963				

Sheet 8 of 25



* Order a5(E) thru a8(E) bars full length. Field cut to fit skew and use remainder of bars in opposite end.

BAR LAPS
 #5 = 2'-2"
 #6 = 2'-7"



Notes:
 See Sheets 9, 10, 11 and 12 of 25 for superstructure details and Bill of Material.
 Bars indicated thus 87 x 9-#5 etc. indicates 87 lines of bars with 9 lengths per line.
 See Sheet 10 of 25 for parapet reinforcement. Cut longitudinal reinforcement to clear drainage scuppers.
 See Sheet 11 of 25 for Section A-A
 See Sheet 1 of 25 for Location of Scuppers and Floor Drains.
 See Sheet 2 of 25 for Deck Pouring Sequence.

SUPERSTRUCTURE
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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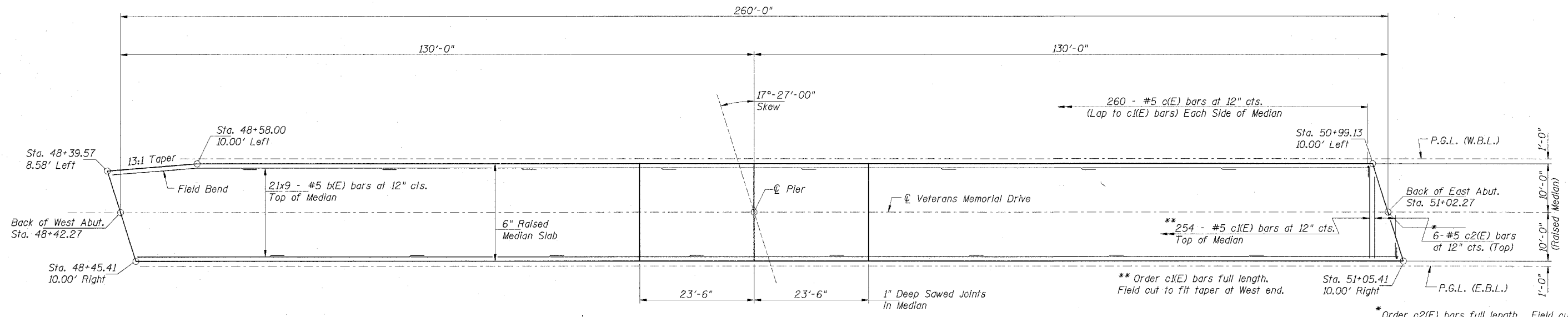
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Sheet 9 of 25

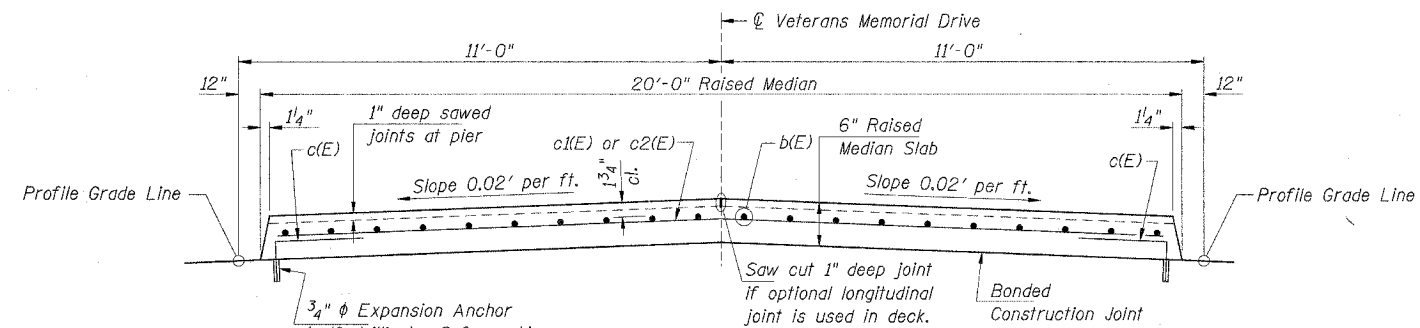


RAISED MEDIAN PLAN

** Order c(E) bars full length. Field cut to fit taper at West end.

* Order c2(E) bars full length. Field cut to fit skew at East end and use remainder of bars in West end and field cut to fit taper.

BAR LAPS
#5 = 2'-2"



SECTION THRU RAISED MEDIAN
(Looking Upstation)

Note:
The cost of Expansion Anchors (self-drilling) is included in the cost of "Reinforcement Bars, Epoxy Coated".

Note:
The cost of 1" deep sawed joints is included with the cost of "Concrete Superstructure".

RAISED MEDIAN DETAILS
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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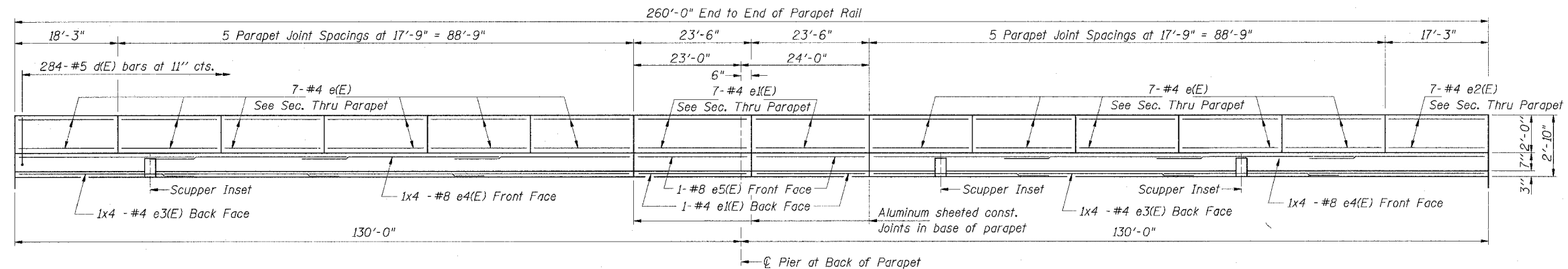
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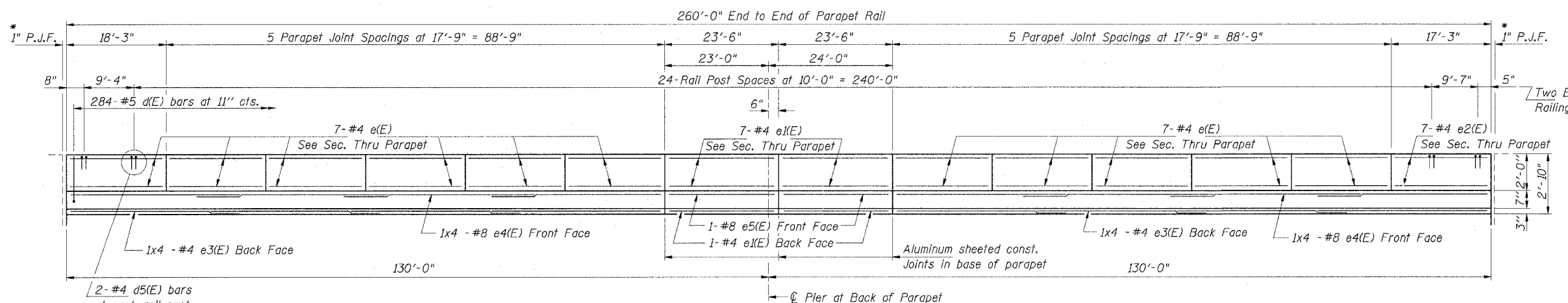
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Sheet 10 of 25



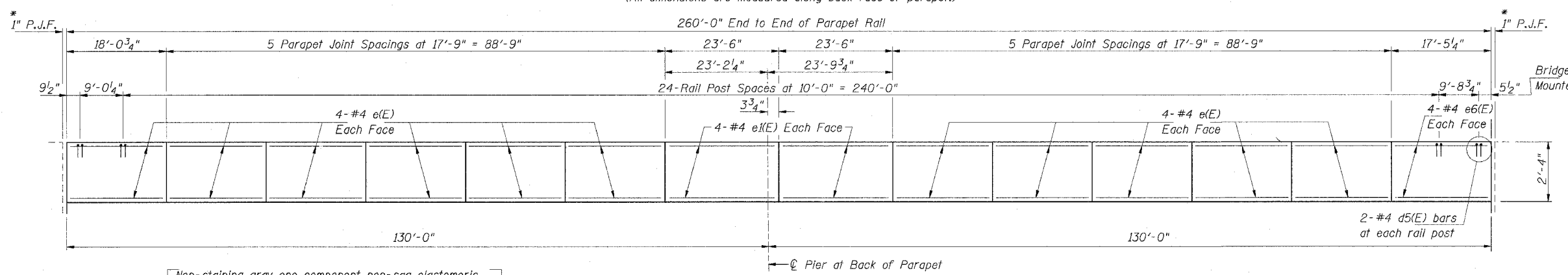
INSIDE ELEVATION - NORTH ROADWAY PARAPET
(All dimensions are measured along back face of parapet.)

* Cost included with Concrete Superstructure



INSIDE ELEVATION - SOUTH ROADWAY PARAPET
(All dimensions are measured along back face of parapet.)

Two Element Parapet Bicycle Railing - Post Spaces

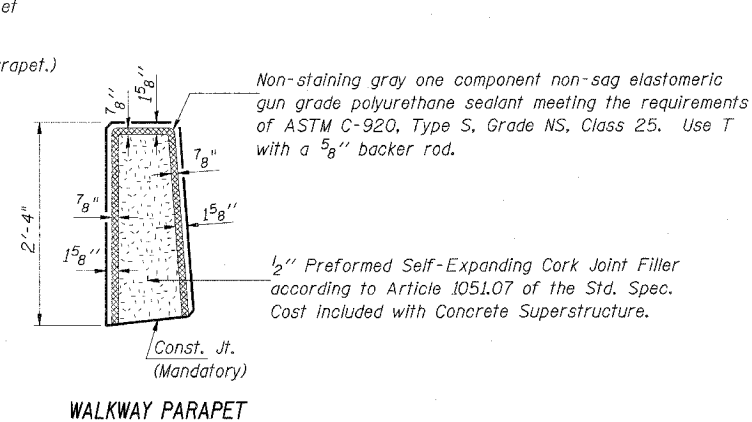
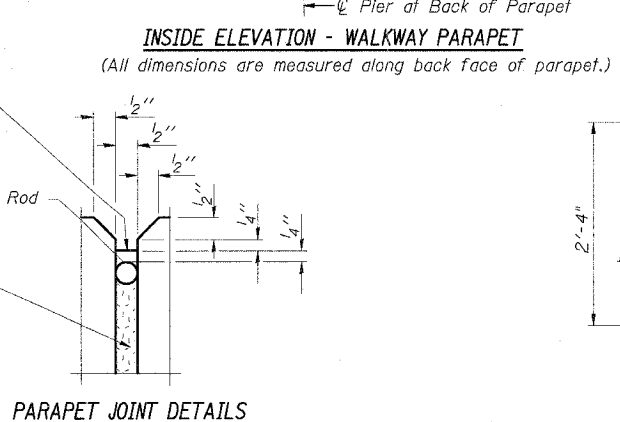
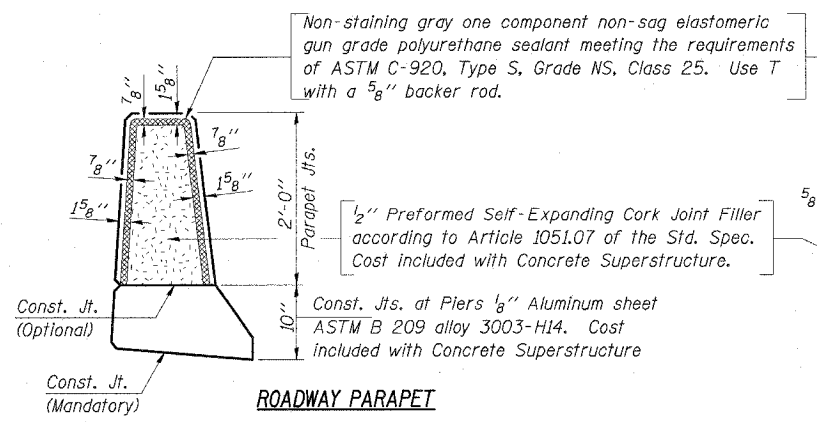


INSIDE ELEVATION - WALKWAY PARAPET
(All dimensions are measured along back face of parapet.)

Bridge Fence Railing Parapet Mounted - Rail Post Spaces

BAR LAPS
#4 = 1'-8"
#8 = 4'-6"

Note:
Space reinforcement to miss railing anchor bolts.



PARAPET DETAILS
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

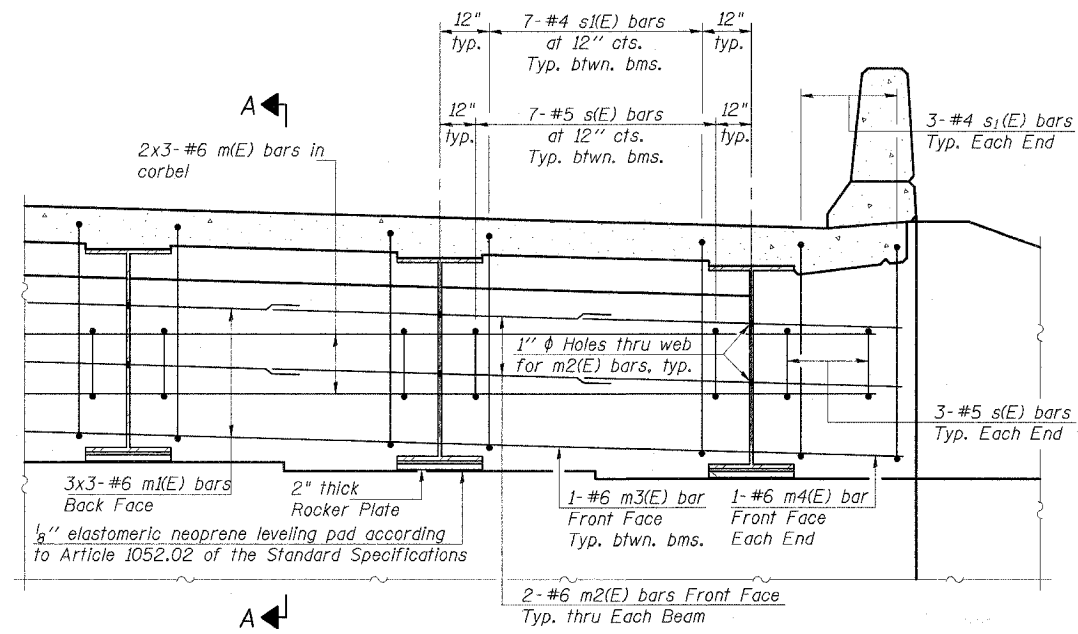
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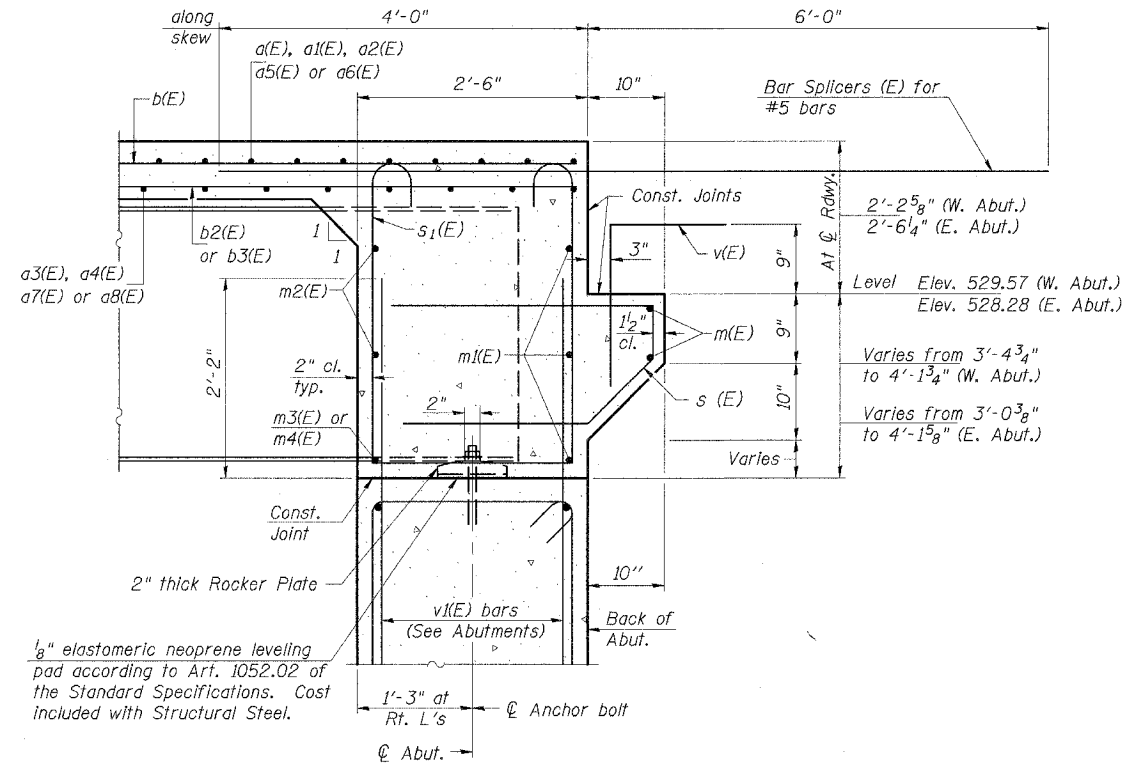
Sheet 11 of 25



DIAPHRAGM ELEVATION AT ABUTMENT

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 25.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 25.
 For details of bars s(E) & s1(E) see sheet 12 of 25.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 Bars indicated thus 2x3-#6 etc. indicates 2 lines of bars with 3 lengths per line.
 See Sheet 23 of 25 for Bar Splicer Details.

MIN. BAR LAP
 #6 bar = 2'-9"



SECTION A-A

Dimensions at right angles to abutment, except as shown.

END DIAPHRAGM DETAILS
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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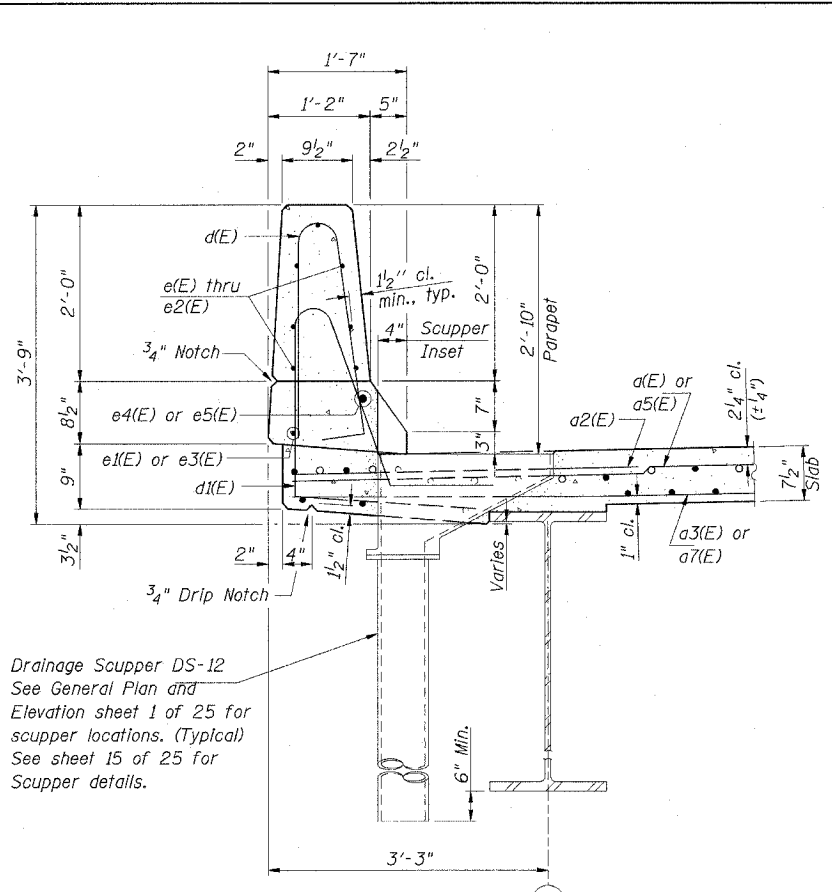
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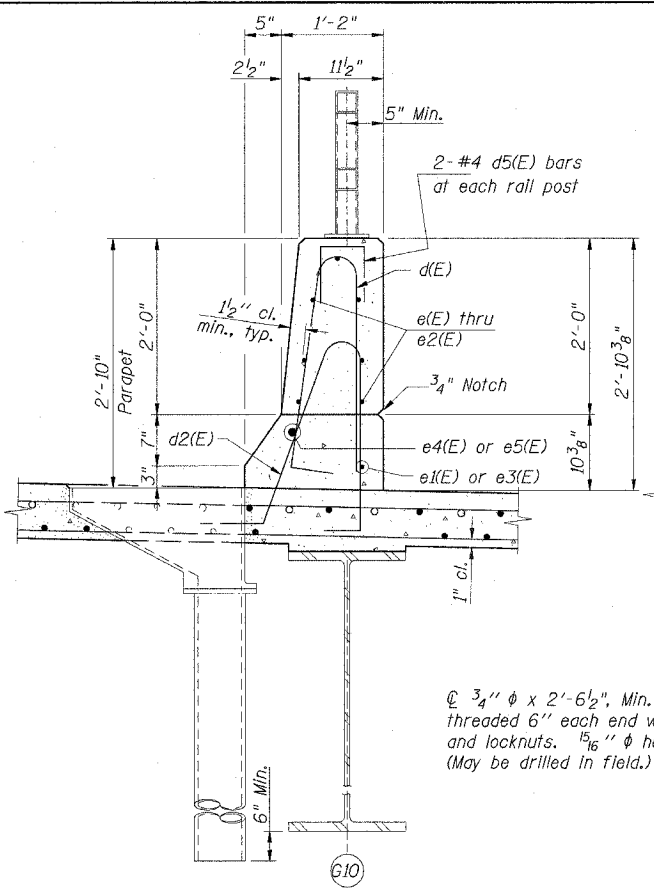
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SUPERSTRUCTURE BILL OF MATERIAL

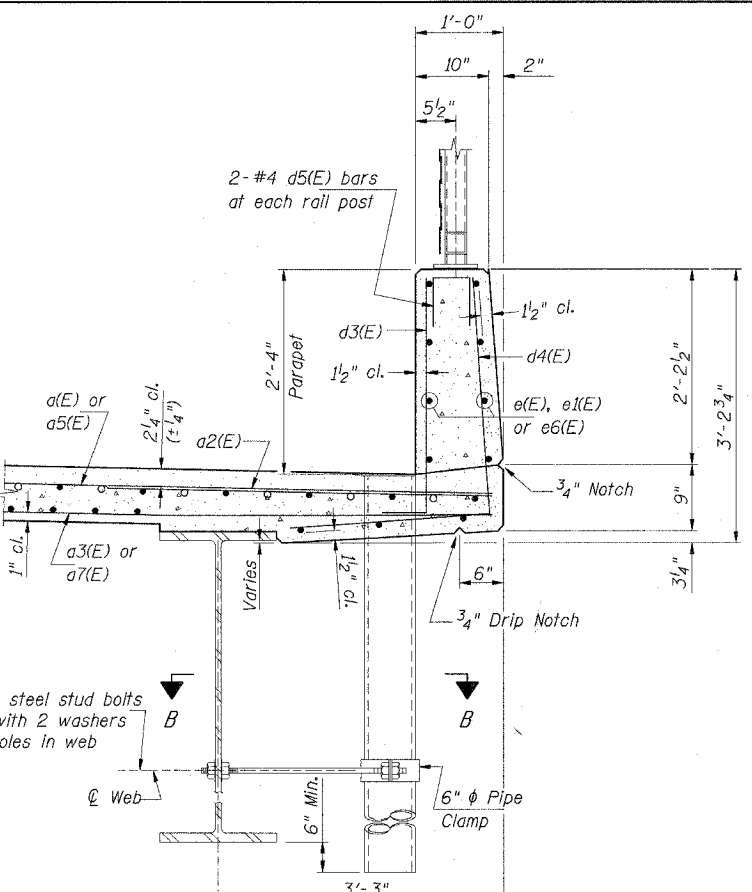
Bar	No.	Size	Length	Shape
a(E)	1090	#5	32'-7"	—
a1(E)	549	#5	26'-8"	—
a2(E)	566	#6	6'-0"	—
a3(E)	754	#5	27'-10"	—
a4(E)	374	#5	34'-10"	—
a5(E)	40	#5	34'-1"	—
a6(E)	17	#5	27'-6"	—
a7(E)	24	#5	28'-10"	—
a8(E)	14	#5	35'-10"	—
a9(E)	12	#5	31'-6"	—
a10(E)	56	#5	2'-0"	—
b(E)	999	#5	30'-10"	—
b1(E)	264	#6	31'-1"	—
b2(E)	864	#5	29'-5"	—
b3(E)	96	#5	14'-9"	—
c(E)	520	#5	1'-3"	└
c1(E)	254	#5	19'-6"	—
c2(E)	6	#5	19'-1"	—
d(E)	568	#5	5'-7"	└
d1(E)	284	#5	7'-10"	└
d2(E)	284	#5	6'-9"	└
d3(E)	260	#6	3'-2"	└
d4(E)	260	#4	4'-10"	└
d5(E)	108	#4	2'-0"	└
e(E)	242	#4	17'-5"	—
e1(E)	48	#4	23'-2"	—
e2(E)	14	#4	17'-0"	—
e3(E)	16	#4	28'-0"	—
e4(E)	16	#8	30'-1"	—
e5(E)	4	#8	23'-2"	—
e6(E)	8	#4	17'-1"	—
m(E)	12	#6	31'-11"	—
m1(E)	18	#6	32'-7"	—
m2(E)	44	#6	11'-4"	—
m3(E)	20	#6	8'-3"	—
m4(E)	4	#6	2'-10"	—
s(E)	152	#5	6'-9"	└
s1(E)	152	#4	13'-7"	└
v(E)	174	#5	3'-4"	└
Reinforcement Bars, Epoxy Coated Concrete Superstructure	Pound	195970		
	Cu. Yds.	814.5		



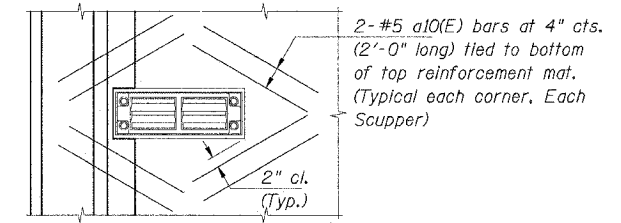
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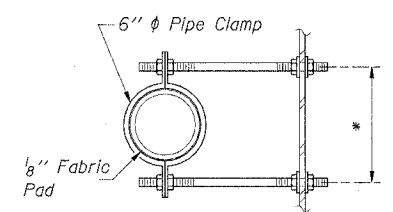
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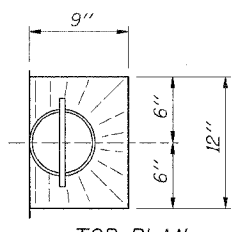
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(Exterior Parapet at Walkway)



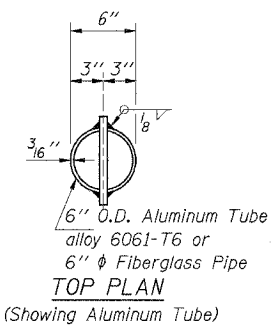
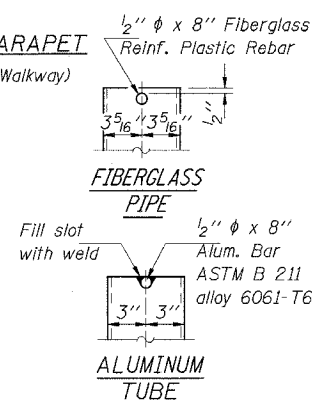
PARTIAL PLAN - SCUPPERS
Inset Scuppers at North Parapet shown, flush mounted South Parapet Scuppers similar.



SECTION B-B
* Dimension as required by Pipe Clamp

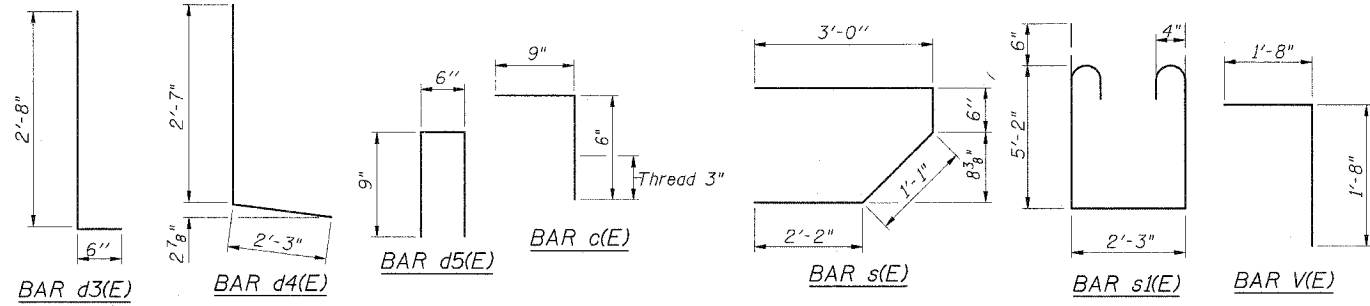
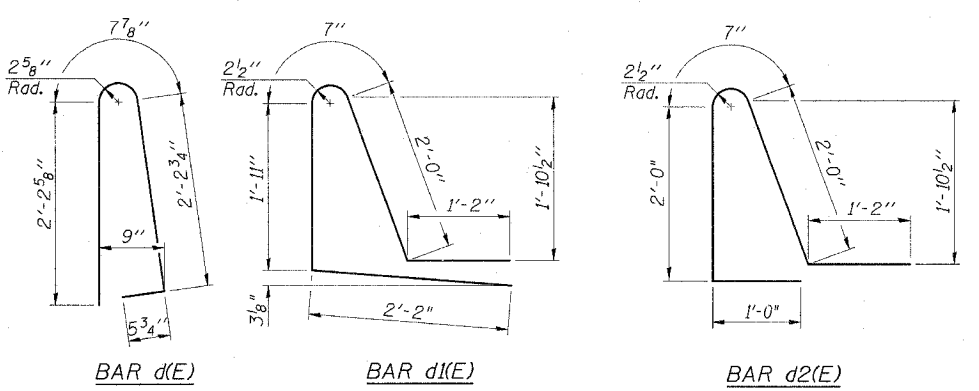


TOP PLAN



TOP PLAN
(Showing Aluminum Tube)

Notes:
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SP1 prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Drains shall be located clear of all cross frames.



SUPERSTRUCTURE DETAILS
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

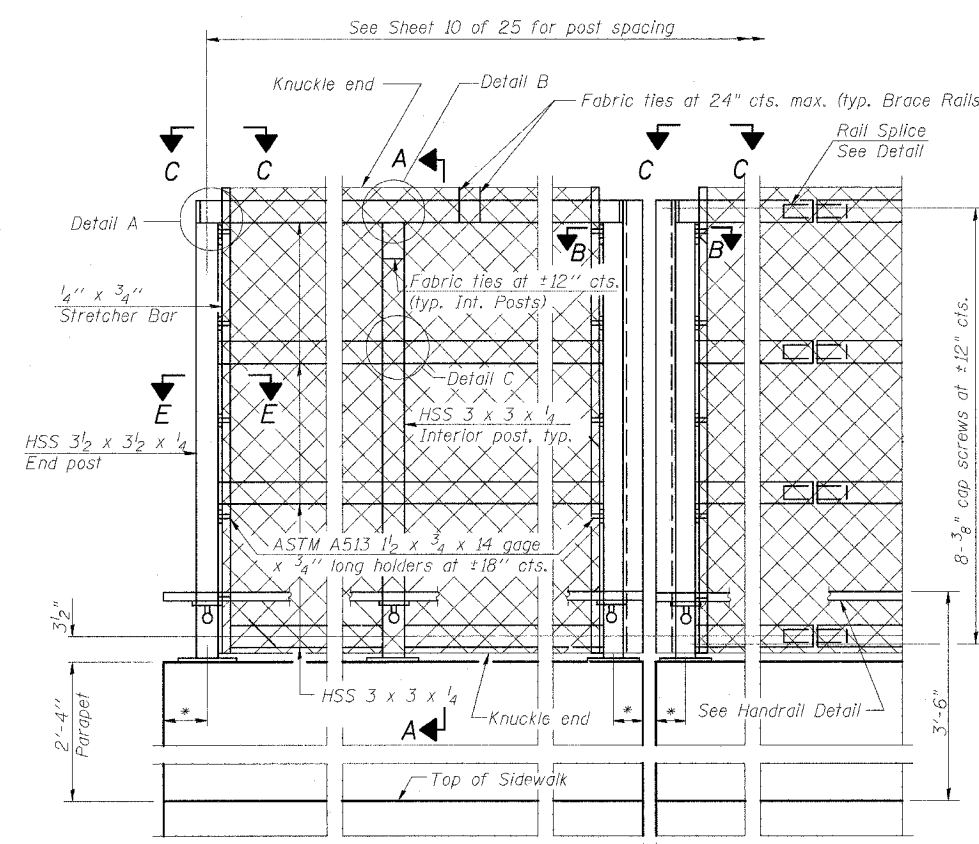
March 2007 Submit to
LAYOUT: WMM 03/12/07
DRAWN: DAB 03/12/07
REVIEWED: J. J.
GSP 02/02/04
PBG 02/02/04
TEH 02/02/04

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	283
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 98963				

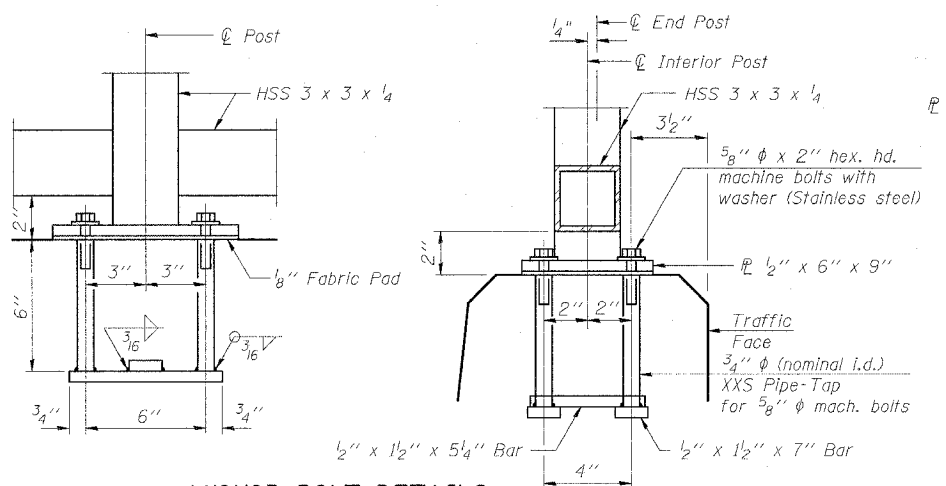
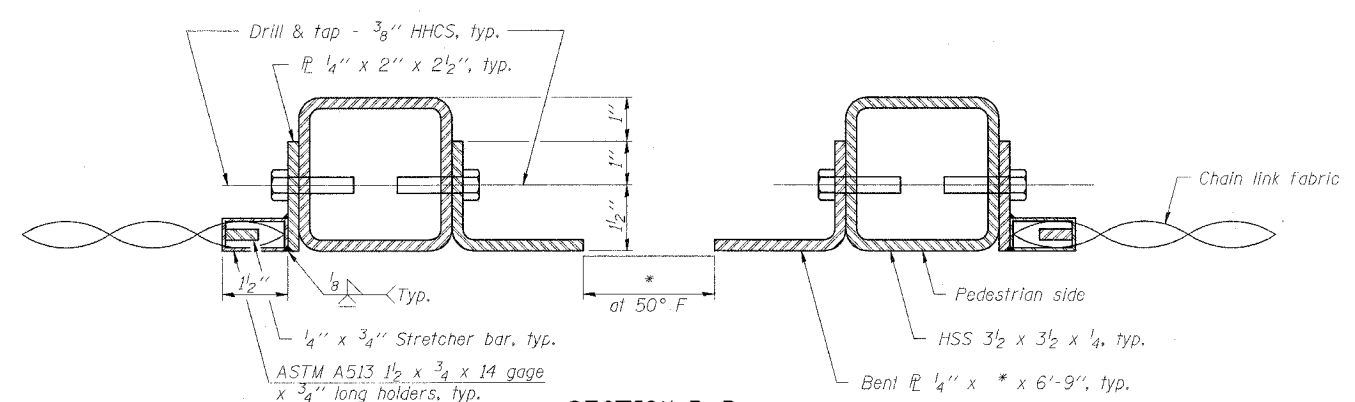
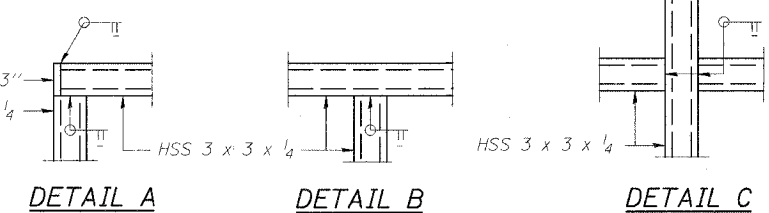
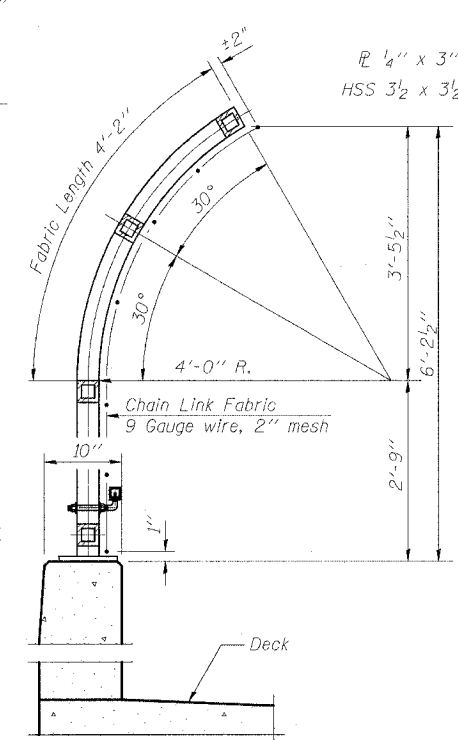
Sheet 13 of 25

NOTE

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

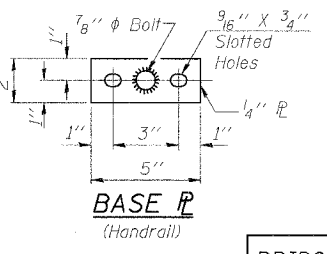
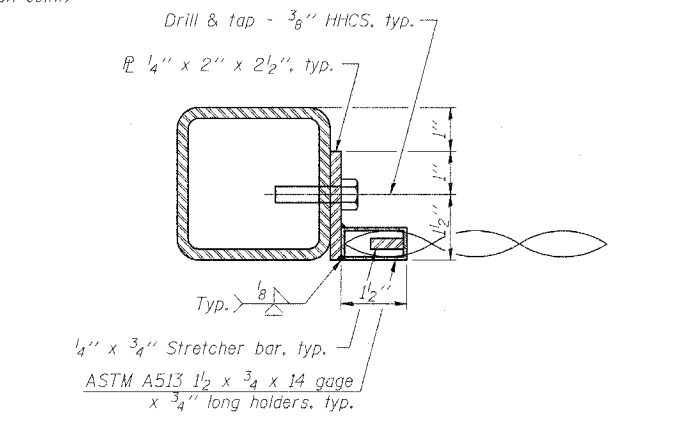
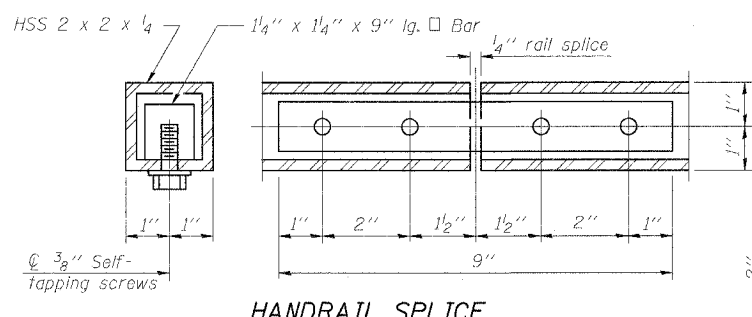
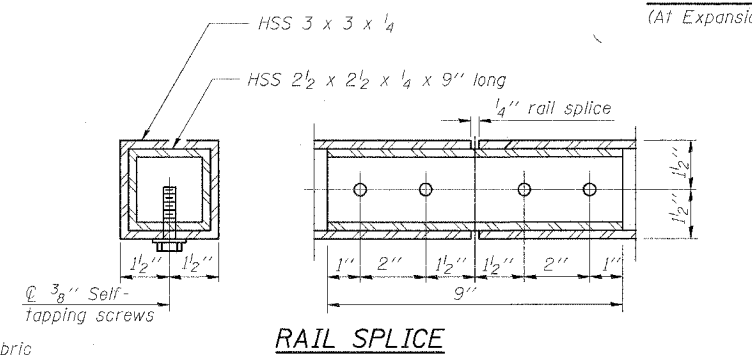
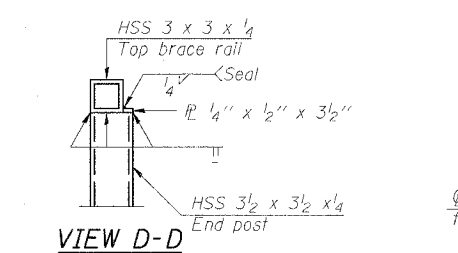
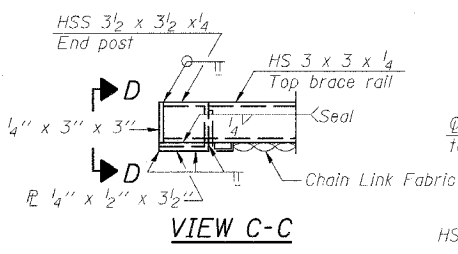


ELEVATION
(Inside Face)



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



HANDRAIL DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	260

BRIDGE FENCE RAILING PARAPET MOUNTED
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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JOB NO. 98S2019A
DATE 03-14-07

March 2007 Submittal

LAYOUT	MM	02/12/07
DRAWN	DAB	02/12/07
REVIEWED		

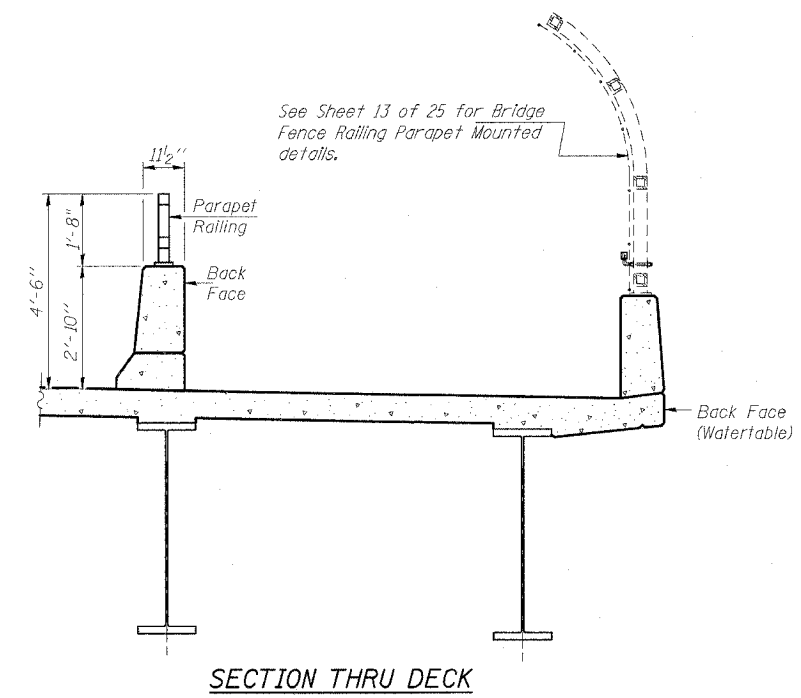
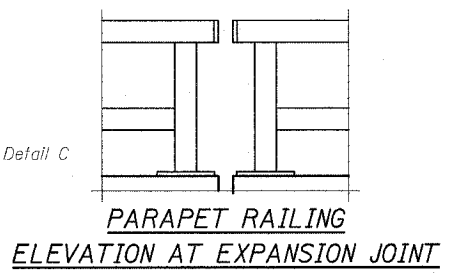
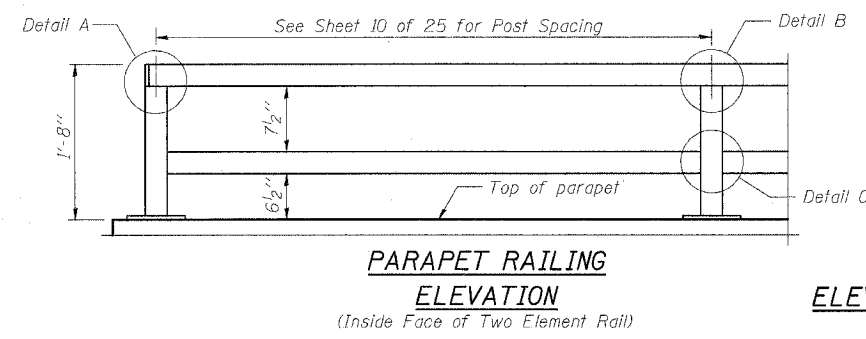
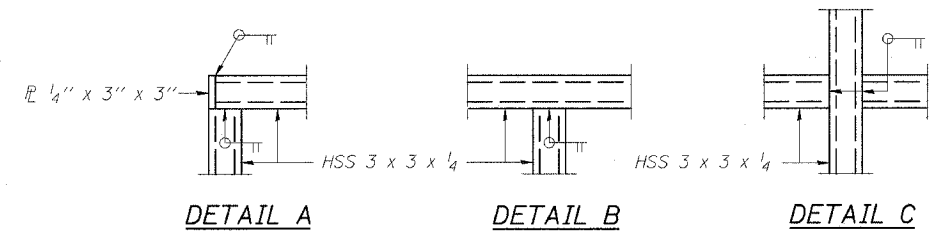
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REVIEWED	TEH	02/02/04

R-32

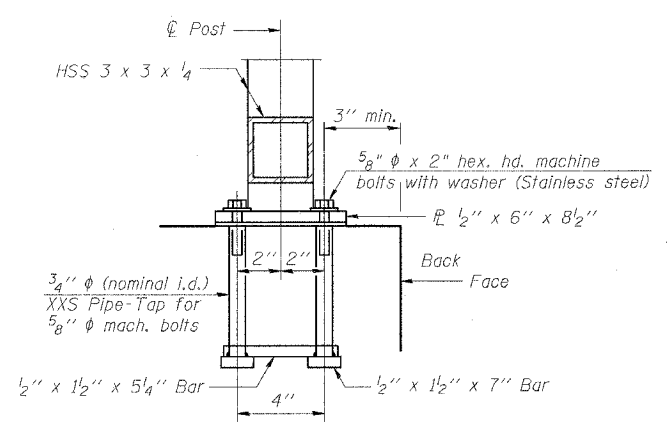
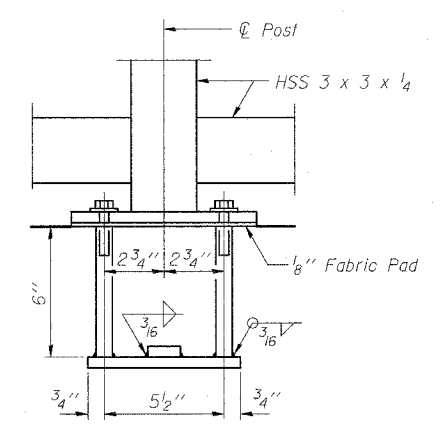
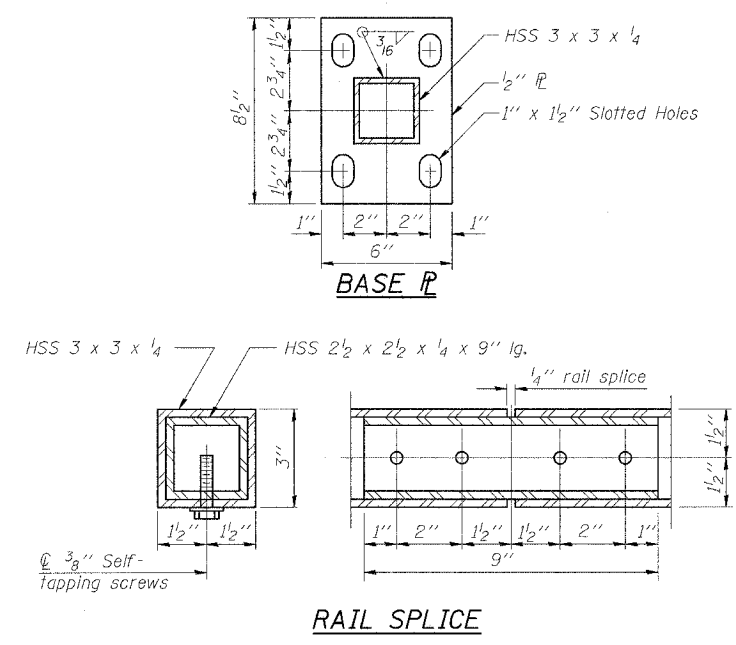
11-1-06

*Variable - See Plans
(10'-0" Maximum Post Spacing)



NOTE

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" phi anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	260

BICYCLE RAILING
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

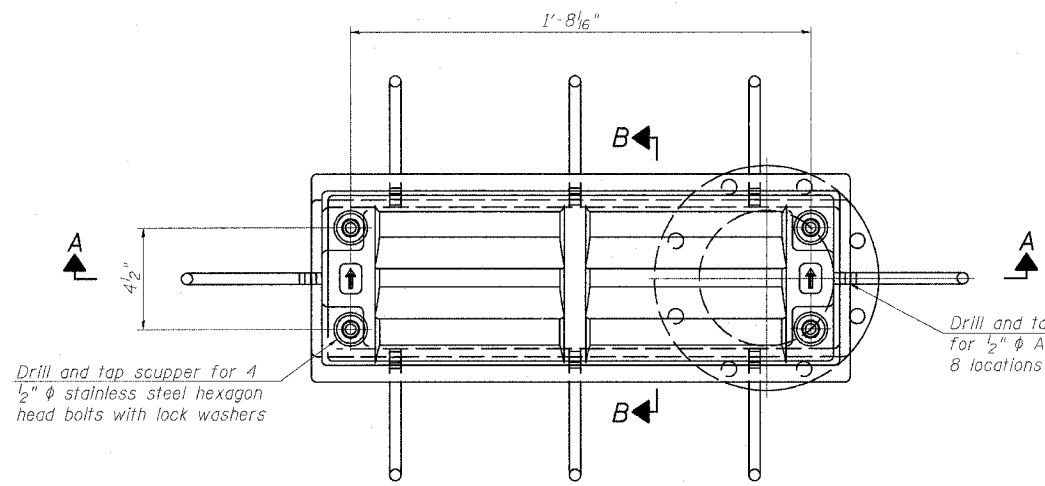
March 2007 Submittal
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 DRAWN: DAB 03/12/07
 REVIEWED: / /
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	318	285
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98963	

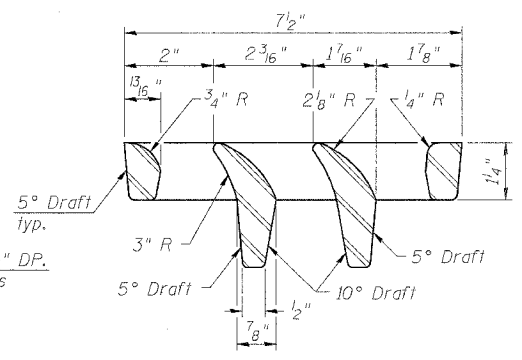
Sheet 15 of 25

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

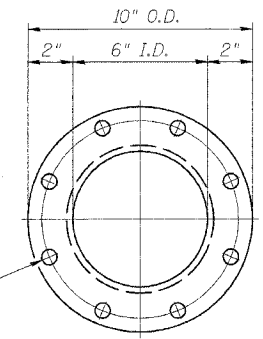


PLAN

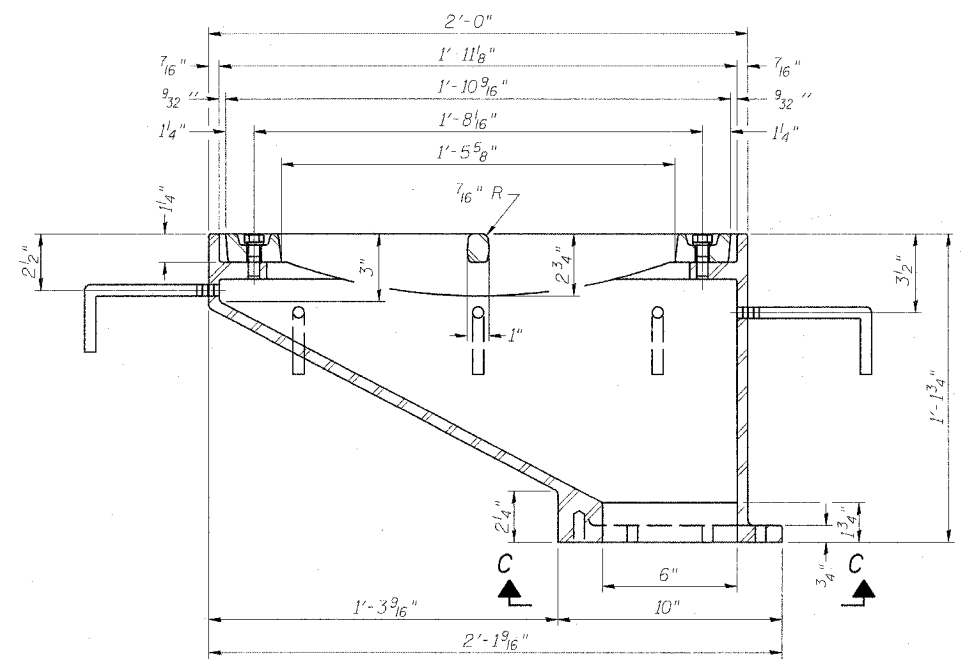


VANE GRATE DETAIL

8-9/16" φ holes on an 8-3/4" φ bolt circle

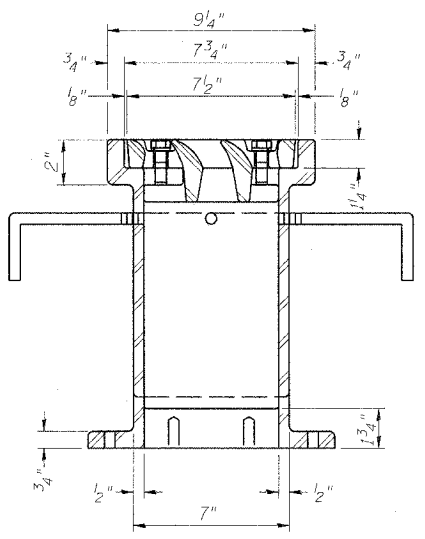


VIEW C-C

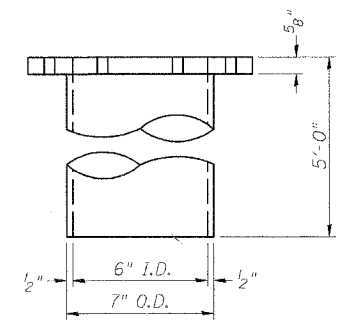


SECTION A-A

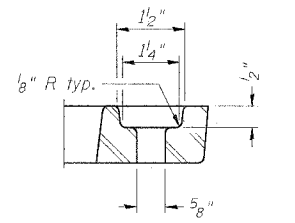
See sheet 12 of 25 for scupper location relative to parapet.



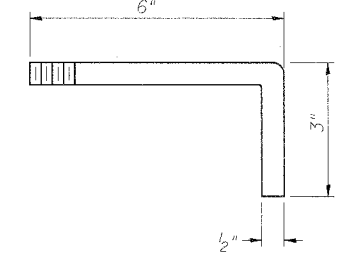
SECTION B-B



DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	7

DRAINAGE SCUPPER, DS-12
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108



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98S2019A
DATE
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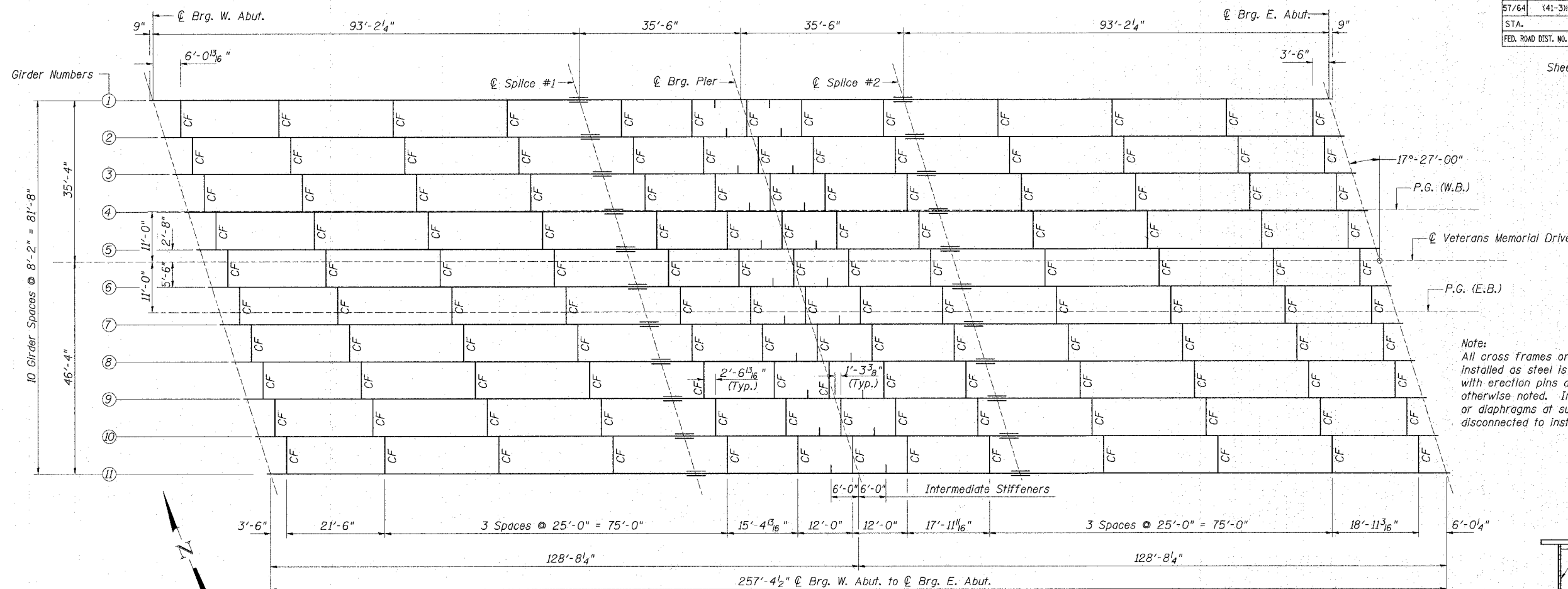
March 2007 Submittal
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 DRAWN: DMB 03/12/07
 REVIEWED: TCH 03/12/07
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DS-12

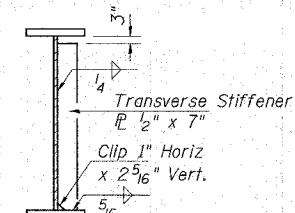
11-1-06

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

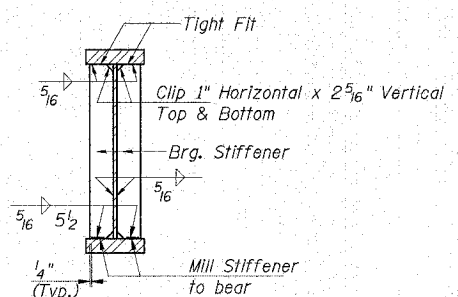
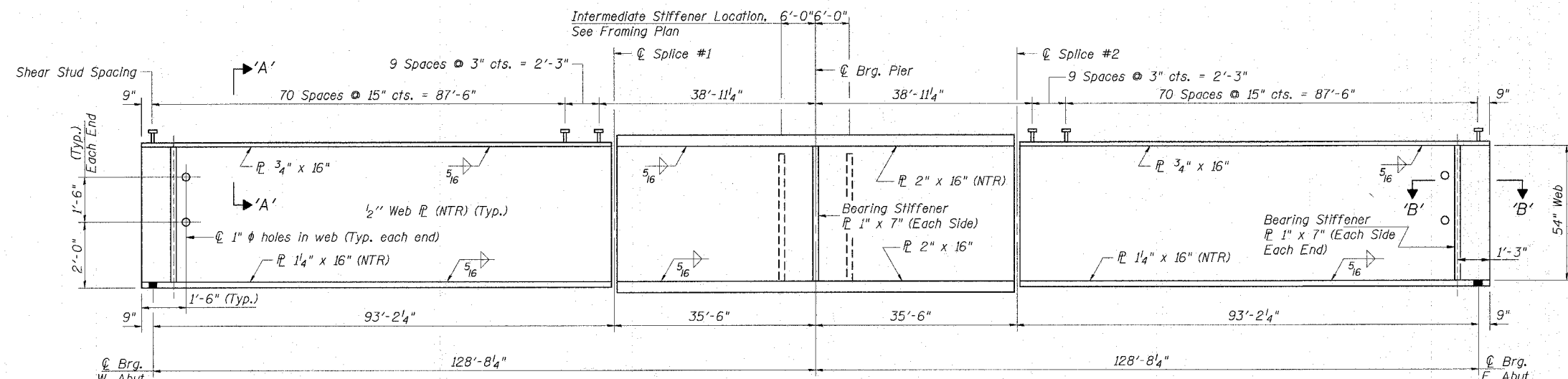
CONTRACT NO. 98963
Sheet 16 of 25



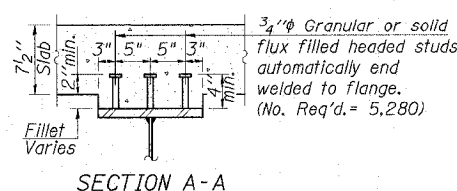
Note:
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



INTERMEDIATE STIFFENER DETAIL

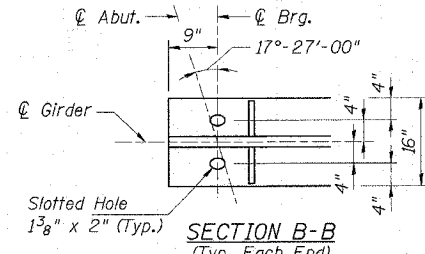


BEARING STIFFENER DETAIL



SECTION A-A

GIRDER ELEVATION
All plates of the girders, including bearing stiffeners and transverse stiffeners, shall be AASHTO M270 Grade 50.
For cross frame details and splice plate details see sheet 17 of 25.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



SECTION B-B (Typ. Each End)

STRUCTURAL STEEL
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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JOB NO. 98S2019A
DATE 03-14-07

March 2007 Submittal	LAYOUT	MAN	03/12/07
	DRAWN	DAB	03/12/07
	REVIEWED		7
	APP		
	TEH		

		0.4 Sp. 1	Pier
I_s	(in ⁴)	29969	56758
I_c (n)	(in ⁴)	71440	—
I_c (3n)	(in ⁴)	51939	—
S_s	(in ³)	1226	1957
S_c (n)	(in ³)	1616	—
S_c (3n)	(in ³)	1486	—
D	(k/ft.)	1.06	1.53
M_D	(k)	1042	3651
s_D	(k/ft.)	0.47	—
M_{sD}	(k)	532	—
M_L	(k)	1250	1237
M (Imp)	(k)	246	244
$5/8[M_L + M$ (Imp)]	(k)	2493	2468
M_a	(k)	5287	7955
f_s (non-comp) (k.s.i.)		10.2	22.4
f_s (comp) (k.s.i.)		4.3	—
f_s (L+Imp) (k.s.i.)		18.5	15.1
f_s (Overload) (k.s.i.)		33.0	37.5
f_s (Total) (k.s.i.)		42.9	49.0
VR	(k)	70	—

		Abut.	Pier
R_D	(k)	69.9	253.3
R_L	(k)	53.4	94.9
Imp.	(k)	10.6	18.7
R (Total)	(k)	133.9	366.9

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in⁴ and in³).

D : Un-factored non-composite dead load (kips/ft.).

M_D : Un-factored moment due to non-composite dead load (kip-ft.).

s_D : Un-factored long-term composite (superimposed) dead load (kips/ft.).

M_{sD} : Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_L : Un-factored live load moment (kip-ft.).

M_{Imp} : Un-factored moment due to impact (kip-ft.).

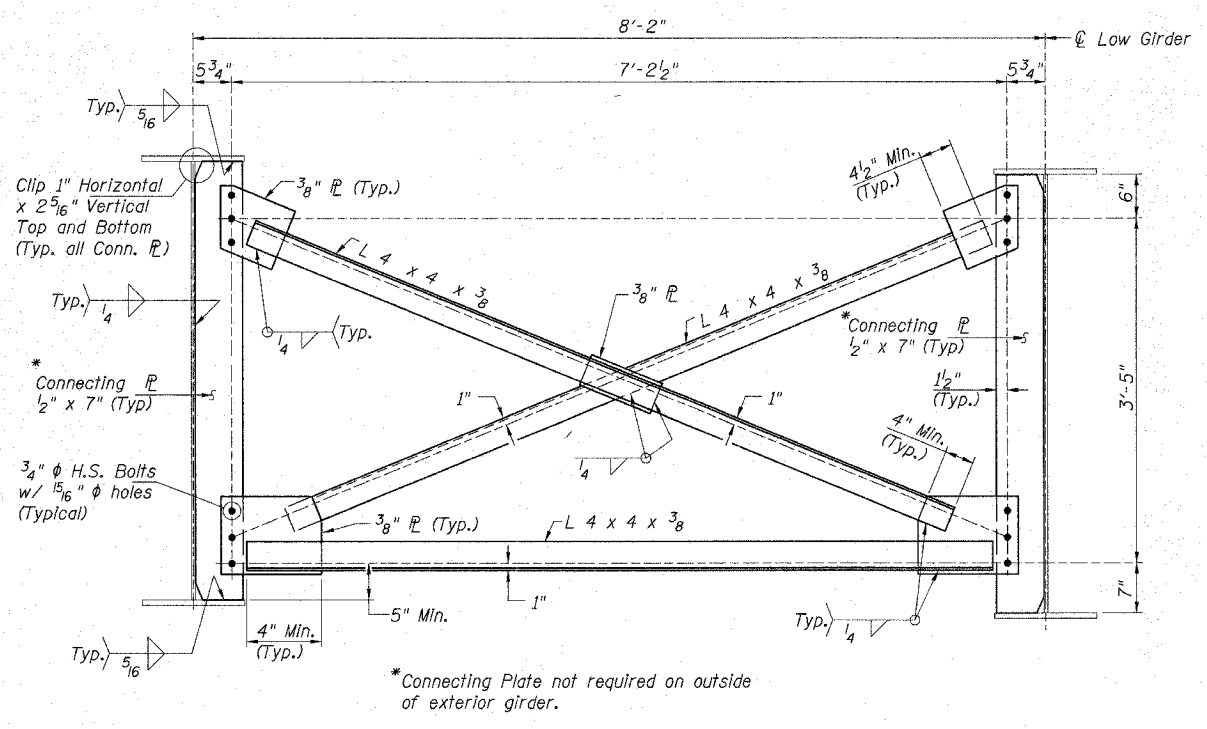
M_a : Factored design moment (kip-ft.).

$1.3 [M_D + M_{sD} + \frac{5}{3} (M_L + M_{Imp})]$

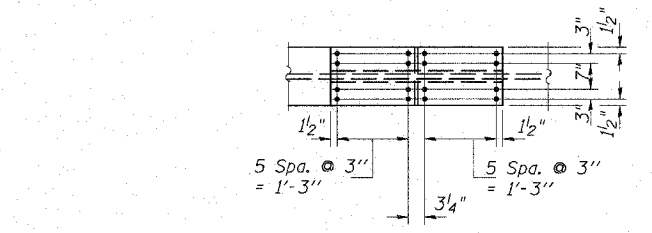
f_s (Overload): Sum of stresses as computed from the moments below (ksi). $M_D + M_{sD} + \frac{5}{3} (M_L + M_{Imp})$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi). $1.3 [M_D + M_{sD} + \frac{5}{3} (M_L + M_{Imp})]$

VR: Maximum \pm impact horizontal shear range within the composite portion of the span for stud shear connector design (kips).

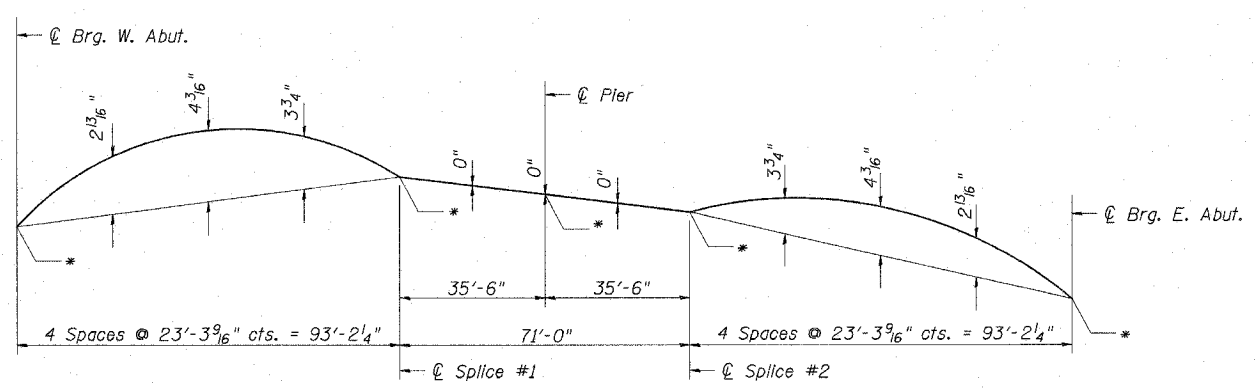


INTERIOR CROSS FRAME CF
(130 Required)



FIELD SPLICE DETAIL
(22 Required)

Notes:
Use 7/8" ϕ H.S. Bolts with 15/16" ϕ holes, for all Splice Connections.
All splice plate material except fill plates, shall be AASHTO M270 Grade 50.
"NTR" denotes plates to which Notch Toughness Requirements are applicable.
Use 3/4" ϕ H.S. Bolts with 15/16" ϕ holes in all Cross Frame connections.
Two hardened washers shall be required over all oversized holes.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



CAMBER DIAGRAM
* See Table for Top of Web Elevations

** TOP OF WEB ELEVATIONS

	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11
ϕ Brg. W. Abut.	530.261	530.443	530.625	530.806	530.986	530.946	530.799	530.651	530.503	530.354	530.205
ϕ Splice No. 1	530.546	530.709	530.872	531.034	531.195	531.136	530.970	530.803	530.635	530.467	530.299
ϕ Brg. Pier	530.444	530.600	530.755	530.909	531.063	530.997	530.823	530.649	530.474	530.299	530.123
ϕ Splice No. 2	530.341	530.489	530.637	530.785	530.931	530.858	530.677	530.495	530.313	530.131	529.948
ϕ Brg. E. Abut.	529.516	529.646	529.774	529.902	530.030	529.937	529.737	529.536	529.335	529.134	528.931

** For Fabrication Only

March 2007 Submittal
 LAYOUT: MMW 03/12/07
 DRAWN: DAB 03/12/07
 REVIEWED: 7/7
 3/21/2007
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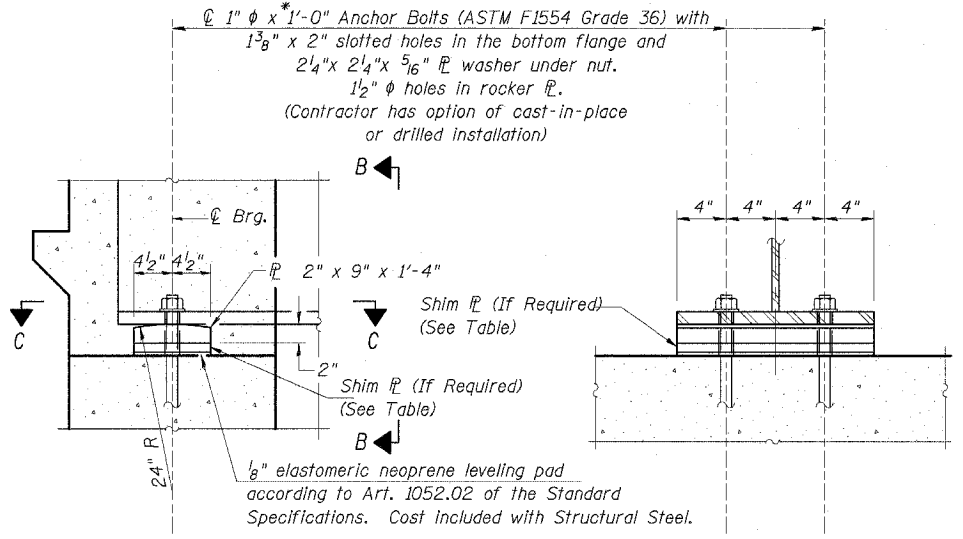
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 TEH 02/02/04

STRUCTURAL STEEL DETAILS
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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 DATE: 03-14-07

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	288
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 98963
Sheet 18 of 25

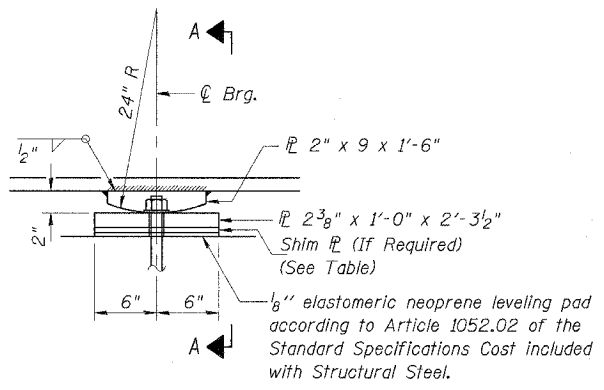


ELEVATION AT ABUTMENT

SECTION B-B

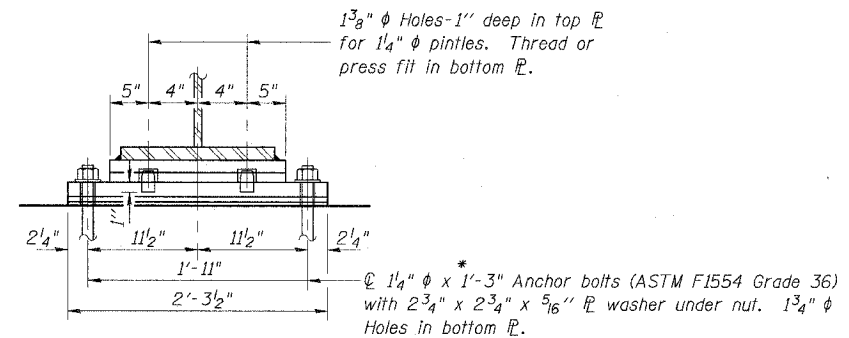
FIXED ABUTMENT BEARINGS

* Length shown is the required total length for cast-in-place headed anchor bolts. The required total length for the sealed capsule alternate anchor bolt shall be according to the manufacturer's recommendations.

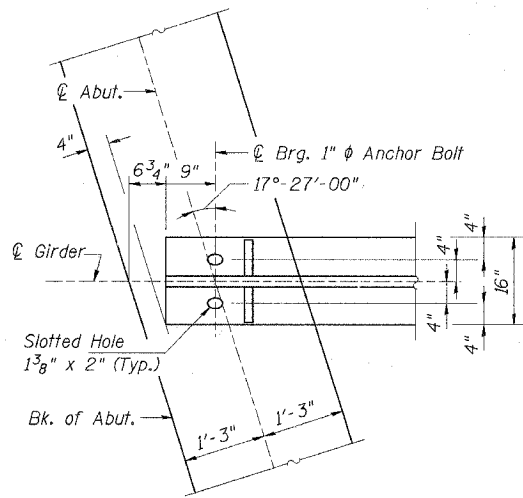


ELEVATION AT PIER

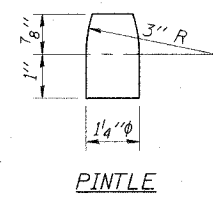
FIXED PIER BEARINGS



SECTION A-A

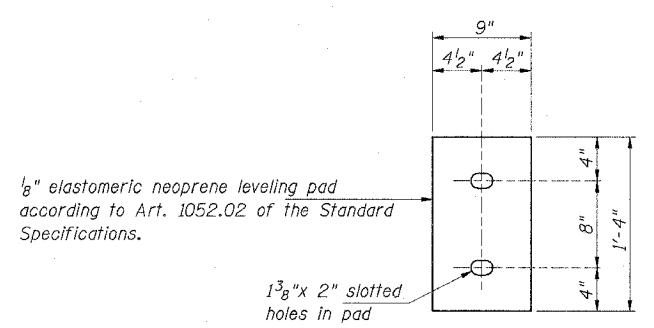


SECTION C-C



SHIM TABLE

Girder Location	#5
West Abut.	3/8"



PLAN-ELASTOMERIC NEOPRENE LEVELING PAD (At Abutments)

Notes:

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

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 (Fy=36ksil). 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.

The anchor bolts, furnished and installed and including the epoxy capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Steel.

All bearing plates, pintles and shim plates shall conform to the requirements of AASHTO M270, Grade 50.

BEARING DETAILS
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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JOB NO. 98S2019A

DATE 03-14-07

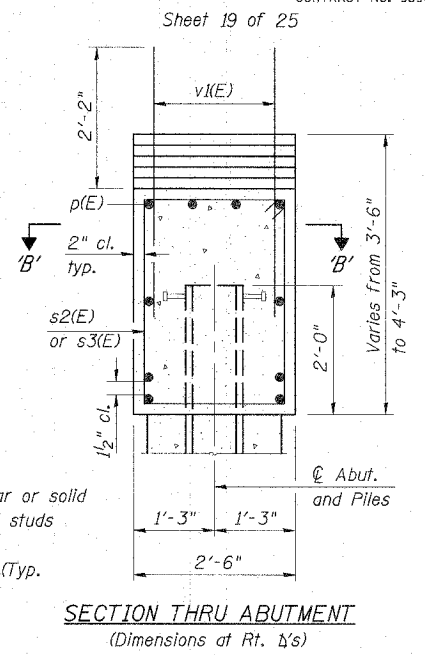
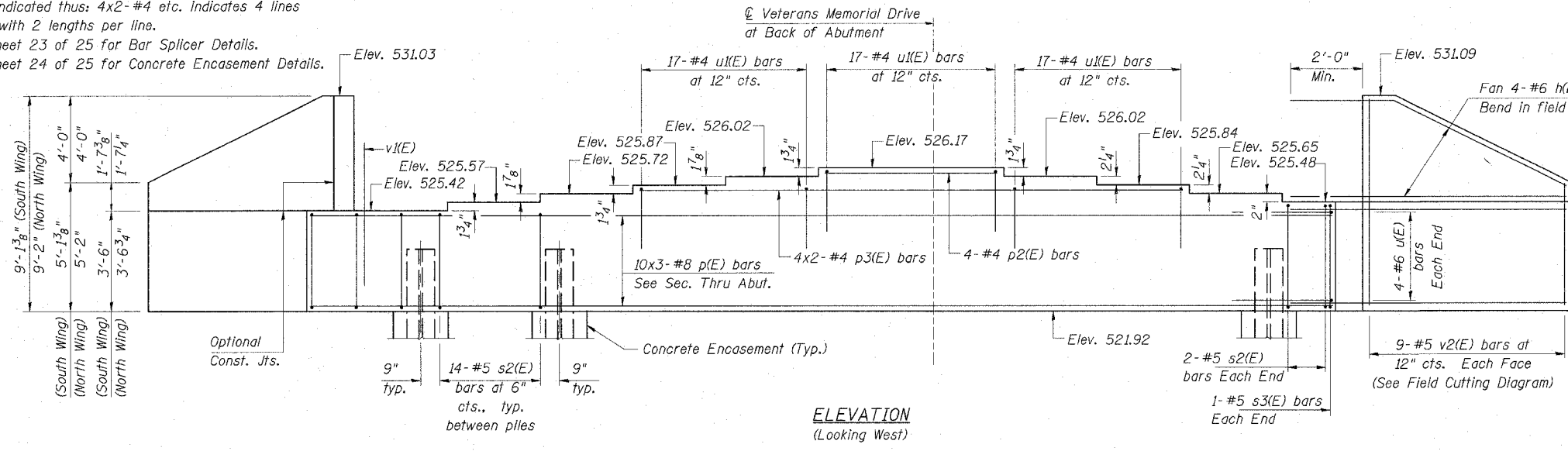
March 2007 Submittal

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DRW	02/02/04	DHB	02/12/07
REVIEWED	02/02/04		

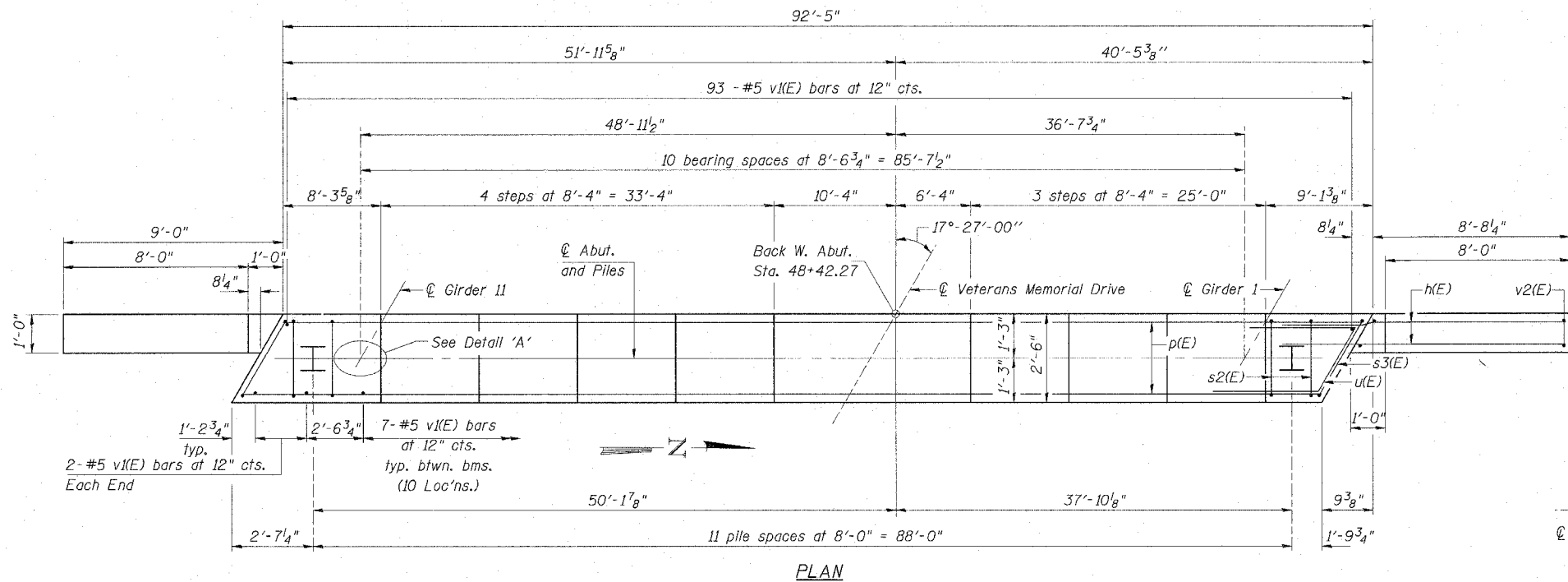
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	289
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 98963				

Notes:
 Pour steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 Bars indicated thus: 4x2-#4 etc. Indicates 4 lines of bars with 2 lengths per line.
 See sheet 23 of 25 for Bar Splicer Details.
 See sheet 24 of 25 for Concrete Encasement Details.



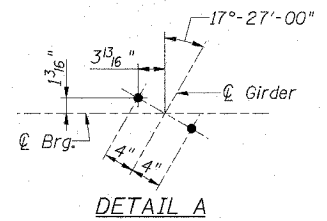
SECTION B-B
 ** Cost Included with "Furnishing Steel Piles HP 12x84".



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#6	12'-0"	—
p(E)	30	#8	34'-1"	—
p3(E)	8	#4	25'-10"	—
p2(E)	4	#4	16'-4"	—
s2(E)	158	#5	11'-7"	□
s3(E)	2	#5	11'-9"	□
u(E)	8	#6	11'-2"	—
u(E)	51	#4	6'-6"	—
v(E)	167	#5	4'-4"	—
v2(E)	18	#5	13'-5"	—
Concrete Structures			Cu. Yd.	37.9
Reinforcement Bars, Epoxy Coated			Pound	6860
Structure Excavation			Cu. Yd.	234
Furnishing Steel Piles HP12x84			Ft.	495
Driving Piles			Ft.	495
Test Pile Steel HP12x84			Each	1
Pile Shoes			Each	12
Concrete Encasement			Cu. Yd.	4.2

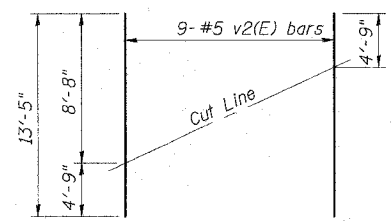
MIN. BAR LAPS
 #4 bar - 1'-11"
 #8 bar - 5'-1"



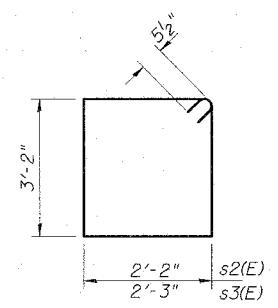
PILE DATA

Type:	Steel - HP12x84 (w/ Pile Shoes)
Nominal Required Bearing :	664 kips
Allowable Resistance Factor:	161 kips
Est. Length:	45 ft.
No. of Production Piles:	11
No of Test Piles:	1

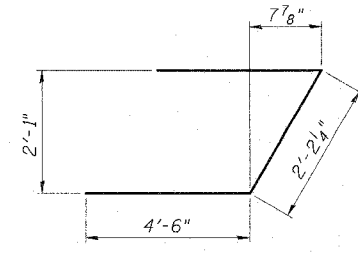
Piles shall be driven through 18 in. diameter precored holes extending to natural ground according to Article 512.09(c) of the Standard Specifications.
 Cost included in driving piles.



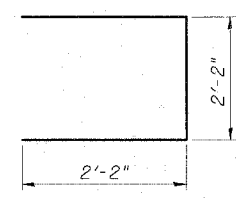
FIELD CUTTING DIAGRAM
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)



BAR v(E)

WEST ABUTMENT
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

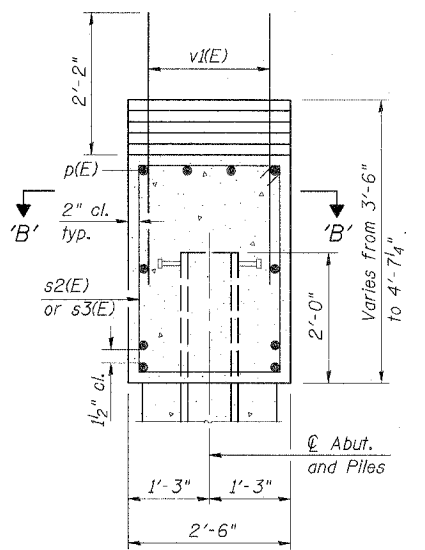
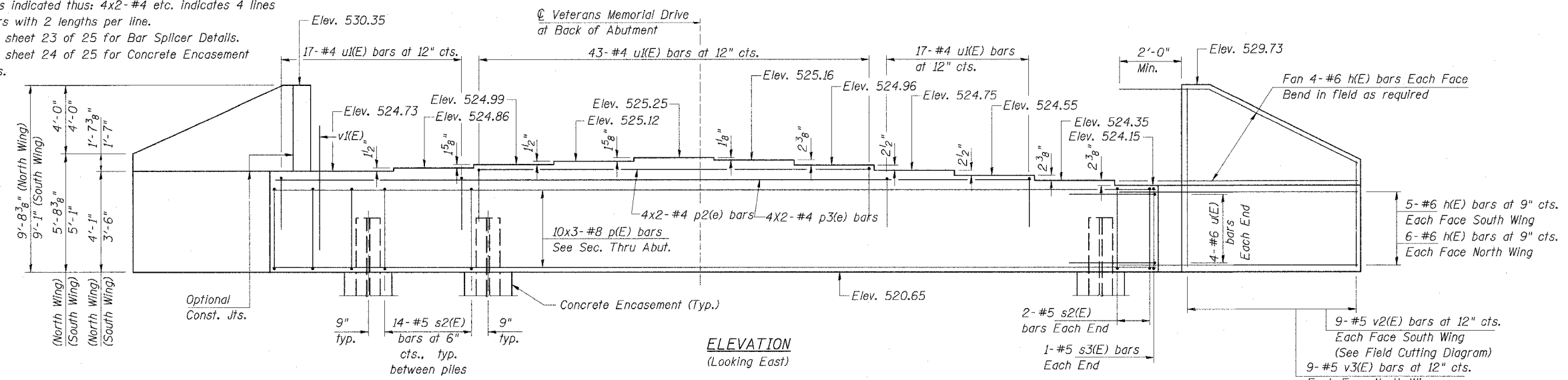
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 98S2019A
 DATE
 03-14-07

March 2007 Submittal
 LAYOUT: MMW 02/12/07
 DRAWN: DAB 02/12/07
 REVIEWED: / / /
 GBR 02/02/04
 DAP 02/02/04
 TEH 02/02/04
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	230
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

Sheet 20 of 25

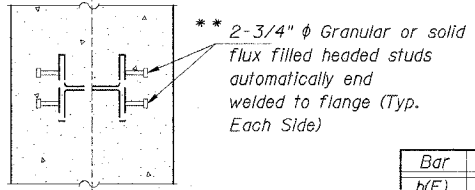
Notes:
 Four steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 Bars indicated thus: 4x2-#4 etc. indicates 4 lines of bars with 2 lengths per line.
 See sheet 23 of 25 for Bar Splicer Details.
 See sheet 24 of 25 for Concrete Encasement Details.



SECTION THRU ABUTMENT
 (Dimensions at Rt. L's)

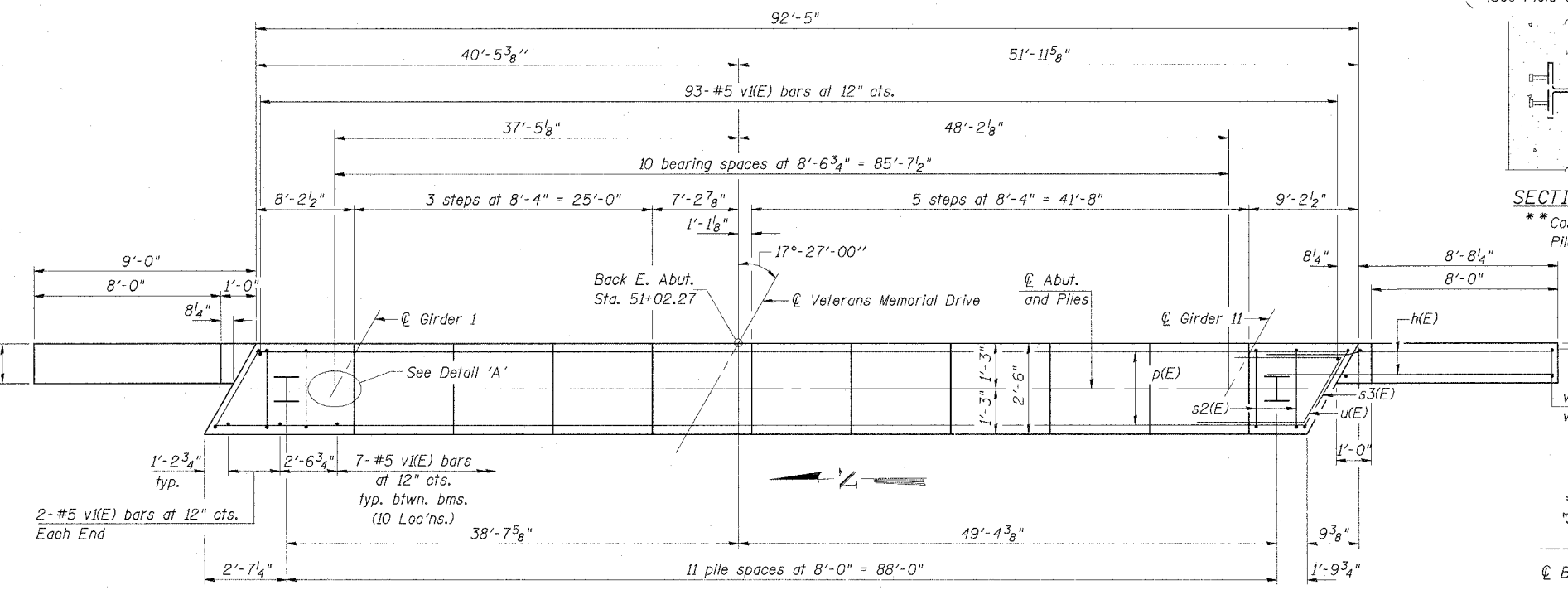
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	38	#6	12'-0"	
p(E)	30	#8	34'-1"	
p2(E)	8	#4	21'-9"	
p3(E)	8	#4	10'-0"	
s2(E)	158	#5	11'-7"	□
s3(E)	2	#5	11'-9"	□
u(E)	8	#6	11'-2"	┌
u(E)	77	#4	6'-6"	┌
v(E)	167	#5	4'-4"	
v2(E)	9	#5	13'-5"	
v3(E)	9	#5	14'-10"	
Concrete Structures		Cu. Yd.	38.2	
Reinforcement Bars, Epoxy Coated		Pound	7010	
Structure Excavation		Cu. Yd.	234	
Furnishing Steel Piles HP12x84		Ft.	495	
Driving Piles		Ft.	495	
Test Pile Steel HP12x84		Each	1	
Pile Shoes		Each	12	
Concrete Encasement		Cu. Yd.	4.2	

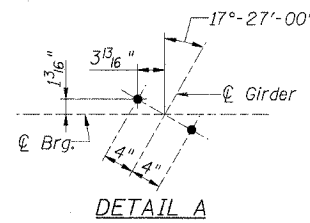


SECTION B-B
 ** Cost Included with "Furnishing Steel Piles HP 12x84".

MIN. BAR LAPS
 #4 bar - 1'-11"
 #8 bar - 5'-1"



PLAN

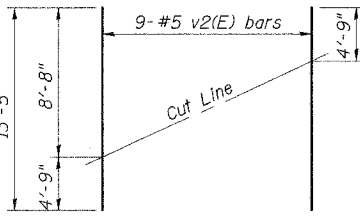


DETAIL A

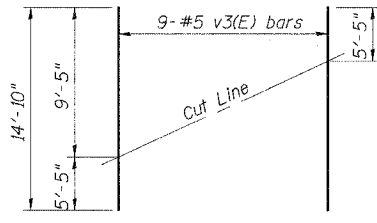
PILE DATA

Type: Steel - HP12x84 (w/ Pile Shoes)
 Nominal Required Bearing : 664 kips
 Allowable Resistance Factor: 161 kips
 Est. Length: 45 ft.
 No. of Production Piles: 11
 No of Test Piles: 1

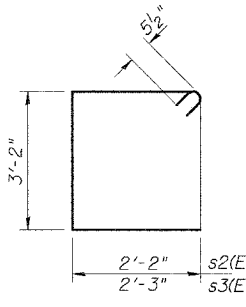
Piles shall be driven through 18 in. diameter precored holes extending to natural ground according to Article 512.09(c) of the Standard Specifications.
 Cost included in driving piles.



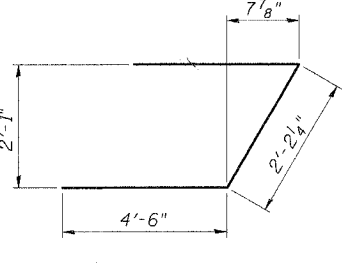
FIELD CUTTING DIAGRAM SOUTH WING



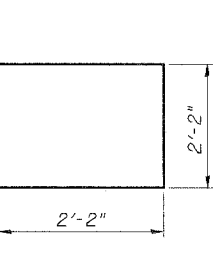
FIELD CUTTING DIAGRAM NORTH WING



BARS s2(E) & s3(E)



BAR u(E)



BAR u(E)

EAST ABUTMENT
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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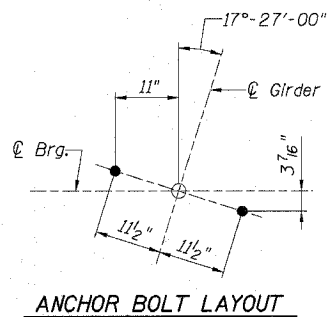
98S2019A

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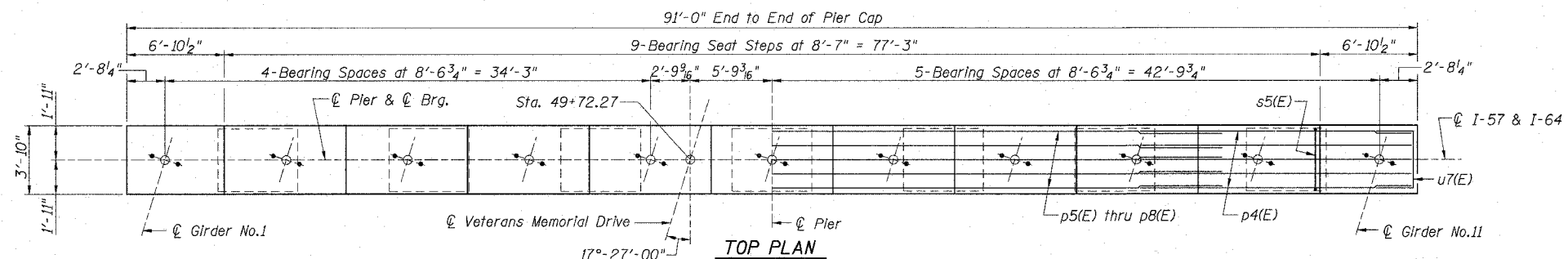
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 03/21/07
 REVIEWED
 7 / 7
 GBR
 02/02/04
 DAP
 02/02/04
 REVIEWED
 03/21/07

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	318	241
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 98963				

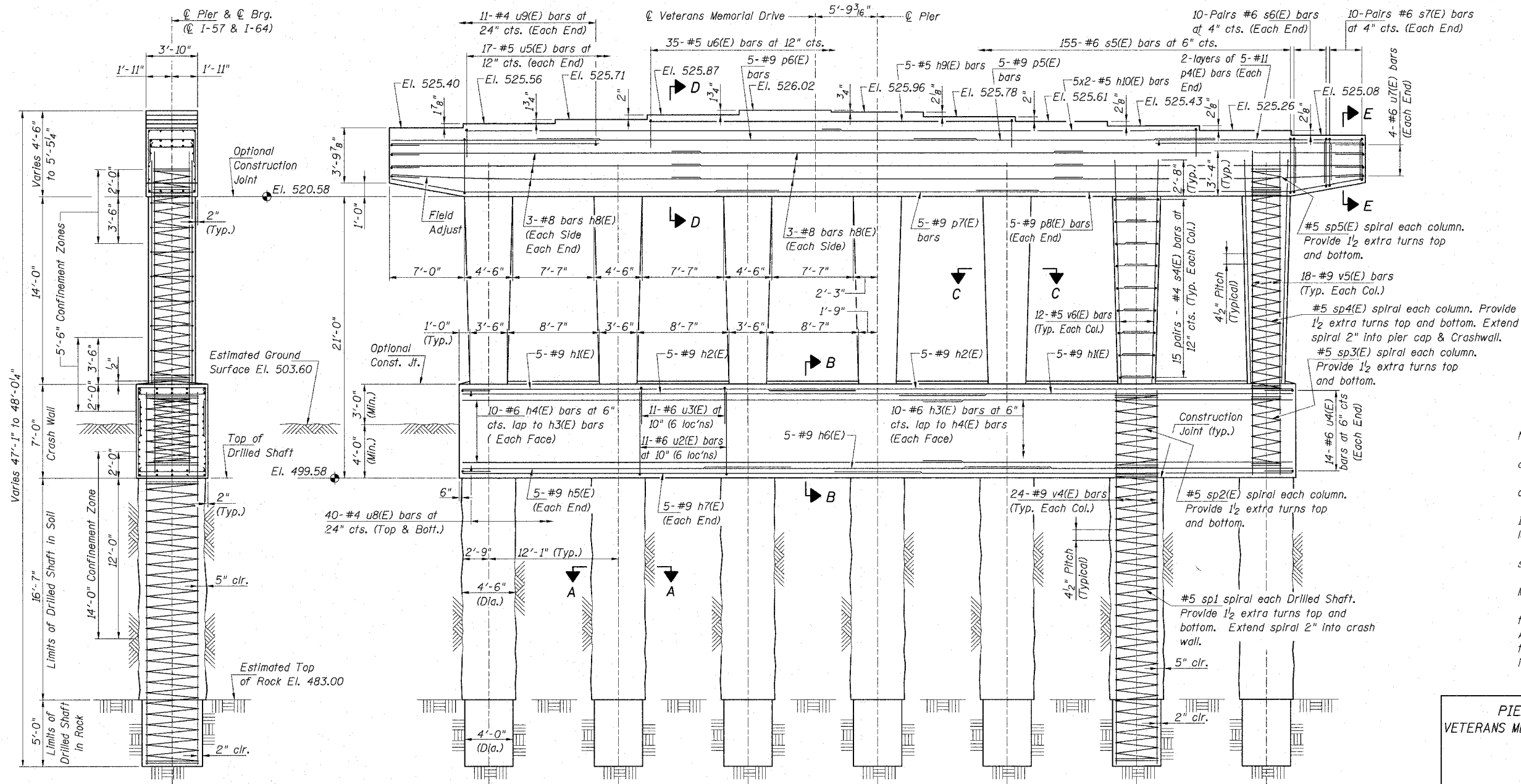
Sheet 21 of 25



ANCHOR BOLT LAYOUT



TOP PLAN



ELEVATION
(Looking Upstation)

MIN. BAR LAPS

- #4 - 1'-8"
- #5 - 2'-2"
- #6 - 2'-7"
- #8 - 4'-6"
- #9 - 8'-1"

Note:
Space cap reinforcement to miss anchor bolts.
Cast steps monolithically with cap.
Bars indicated thus, 5x2 #5 etc. Indicates 5 lines of bars with 2 lengths per line.
Provide each spiral with 4-#4 spacers or equivalent.
See Sheet 22 of 25 for Pier Bill of Material, Sections and Details.
Shop weld together extra 1/2 spiral turns at top and bottom of spiral per AWS D1.4 or provide 1/2 extra turns top and bottom with 135° standard hook into core at ends of spiral.

The quantities and reinforcement detailing are based on the top of shaft and estimated rock elevations shown and may change based on the actual top of rock elevation encountered at each shaft and the final top of shaft elevation.

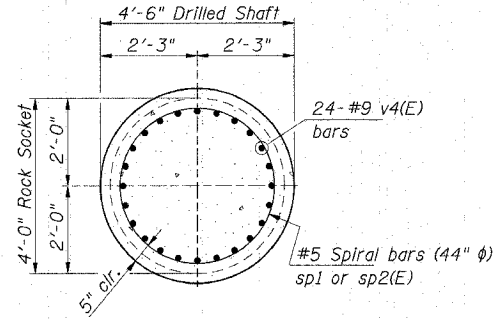
PIER DETAILS (Sheet 1 of 2)
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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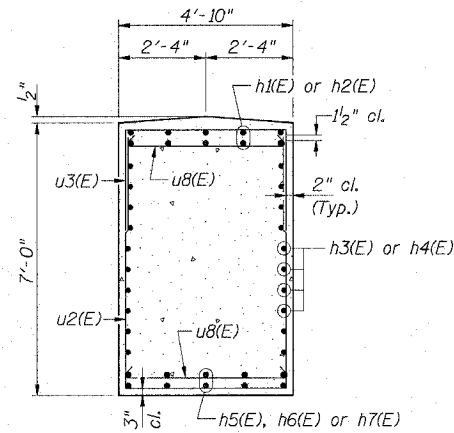


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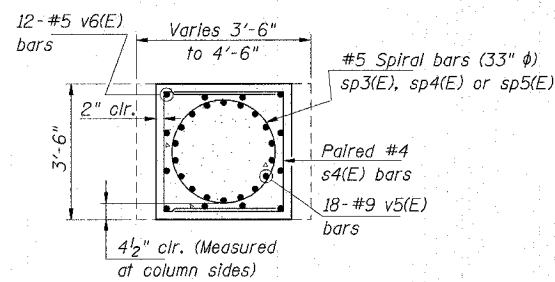
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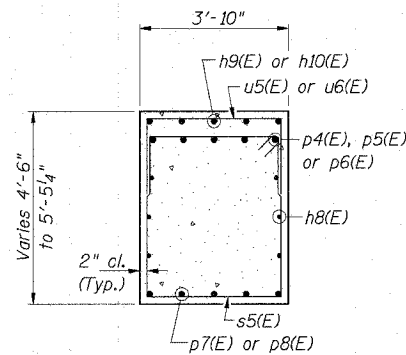
SECTION A-A



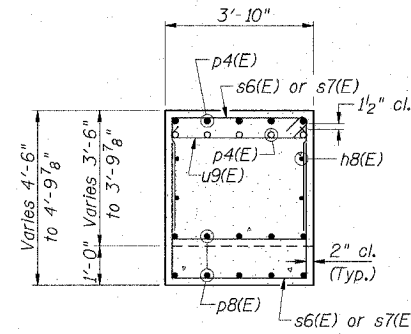
SECTION B-B



SECTION C-C



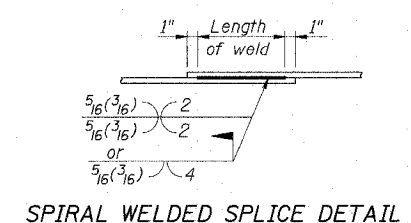
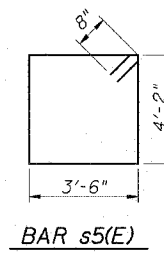
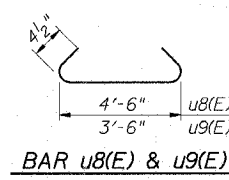
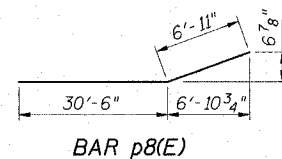
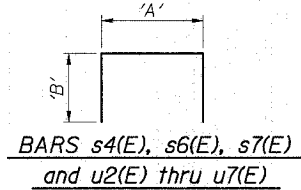
SECTION D-D



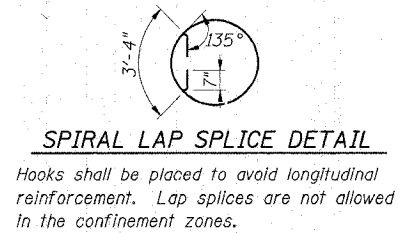
SECTION E-E

A & B DIMENSIONS

Bar	'A'	'B'
s4(E)	3'-2"	3'-2"
s6(E)	3'-6"	3'-5"
s7(E)	3'-6"	3'-2"
u2(E)	4'-6"	6'-7"
u3(E)	4'-6"	2'-7"
u4(E)	4'-0"	2'-7"
u5(E)	3'-6"	2'-8"
u6(E)	3'-6"	3'-1"
u7(E)	3'-4"	2'-7"



SPIRAL WELDED SPLICE DETAIL



SPIRAL LAP SPLICE DETAIL

Hooks shall be placed to avoid longitudinal reinforcement. Lap splices are not allowed in the confinement zones.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	10	#9	36'-10"	—
h2(E)	10	#9	48'-11"	—
h3(E)	20	#6	34'-1"	—
h4(E)	20	#6	46'-2"	—
h5(E)	10	#9	30'-9"	—
h6(E)	5	#9	32'-3"	—
h7(E)	10	#9	42'-10"	—
h8(E)	18	#8	33'-3"	—
h9(E)	5	#5	34'-0"	—
h10(E)	10	#5	35'-4"	—
p4(E)	20	#11	23'-11"	—
p5(E)	5	#9	27'-6"	—
p6(E)	5	#9	39'-7"	—
p7(E)	5	#9	32'-3"	—
p8(E)	10	#9	37'-5"	—
s4(E)	210	#4	9'-6"	—
s5(E)	155	#6	16'-8"	—
s6(E)	40	#6	10'-4"	—
s7(E)	40	#6	9'-10"	—
* sp1	7	#5	21'-4"	WWWWW
* sp2(E)	7	#5	5'-9"	WWWWW
* sp3(E)	7	#5	5'-9"	WWWWW
* sp4(E)	7	#5	14'-4"	WWWWW
* sp5(E)	7	#5	2'-0"	WWWWW
u2(E)	66	#6	17'-8"	—
u3(E)	66	#6	9'-8"	—
u4(E)	28	#6	9'-2"	—
u5(E)	34	#5	8'-10"	—
u6(E)	35	#5	9'-8"	—
u7(E)	8	#6	8'-6"	—
u8(E)	80	#4	5'-3"	—
u9(E)	22	#4	4'-3"	—
v4(E)	168	#9	27'-8"	—
v5(E)	126	#9	24'-2"	—
v6(E)	84	#5	17'-4"	—
Structure Excavation	Cu. Yd.		108	
Drilled Shaft in Soil	Cu. Yd.		68.4	
Drilled Shaft in Rock	Cu. Yd.		16.3	
Concrete Structures	Cu. Yd.		209.7	
Reinforcement Bars, Epoxy Coated	Pound		59570	
Reinforcement Bars	Pound		4970	

* Length of spiral is equal to its required height.

March 2007 Submittal
 05/01/2007 03:43 PM #FLEB
 LAYOUT: MMJ 03/12/07
 DRAWN: DAB 03/12/07
 REVIEWED: / /
 GBR 02/02/04
 Rsd 02/02/04
 LEH 02/02/04

PIER DETAILS (Sheet 2 of 2)
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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HANSON

JOB NO. 98S2019A
 DATE 03-14-07

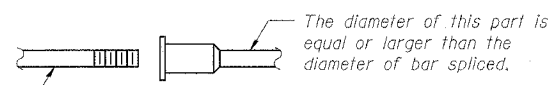
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is the same as the diameter of the bar spliced.

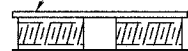


ROLLED THREAD DOWEL BAR



** ONE PIECE

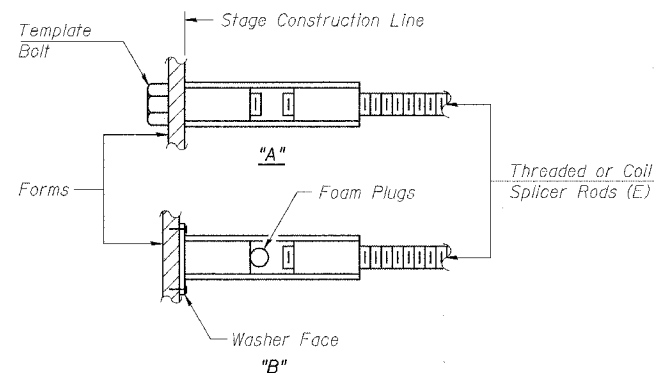
Wire Connector



WELDED SECTIONS

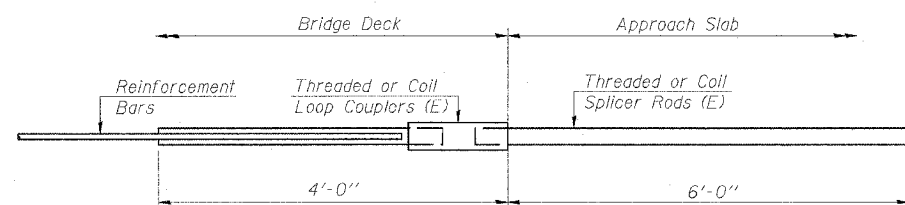
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



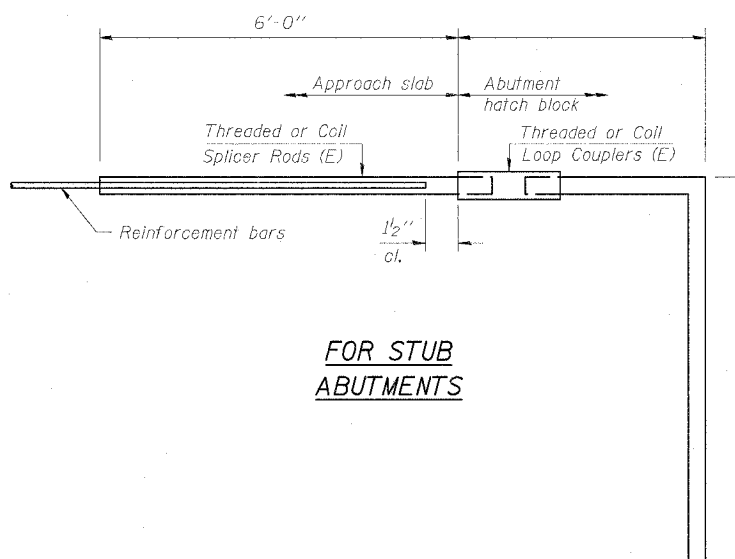
INSTALLATION AND SETTING METHODS

"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.



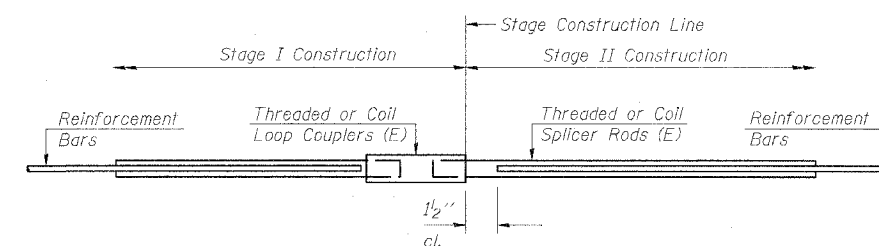
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 174



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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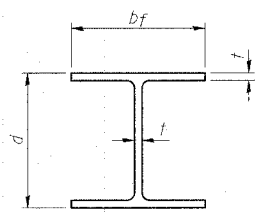


JOB NO.
9852019A
DATE
03-14-07

March 2007 Submittd
 LAYOUT: MMJ 03/12/07
 DRAWN: DAB 03/12/07
 REVIEWED: / /
 LAYOUT: GBF 02/02/04
 DRAWN: TEH / /
 REVIEWED: / /
 03/27/2007 10:51 AM
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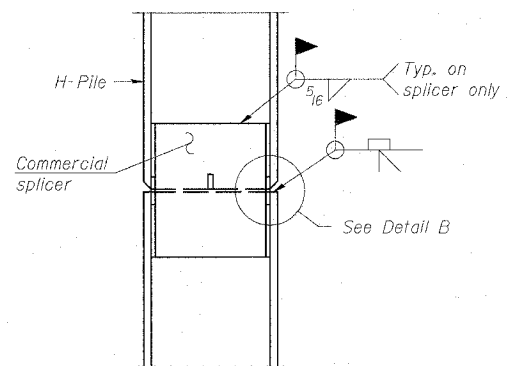
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	294
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98963				

Sheet 24 of 25

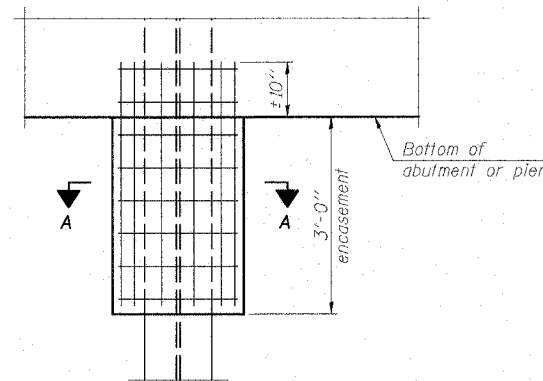


STEEL PILE TABLE

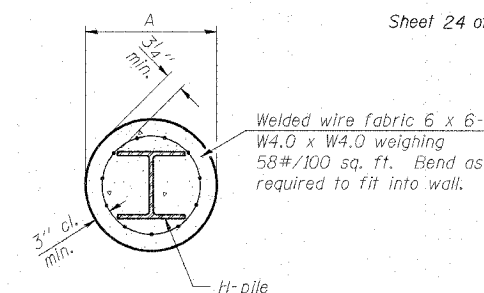
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 5/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 5/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 5/8"	7/16"	18"



ELEVATION



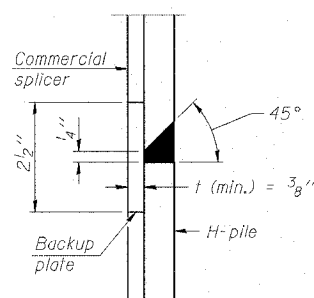
ELEVATION



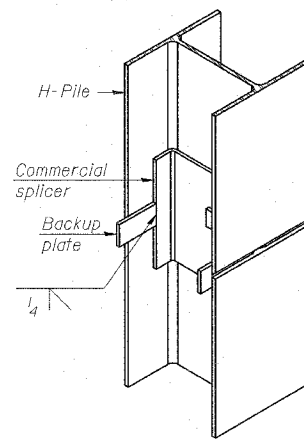
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

PILE ENCASEMENT

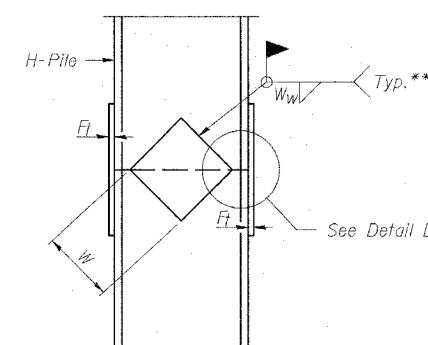


DETAIL "B"

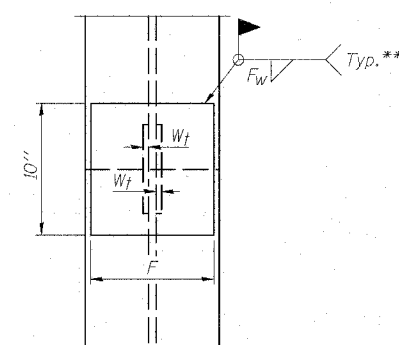


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION

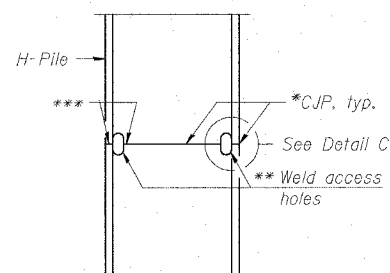


END VIEW

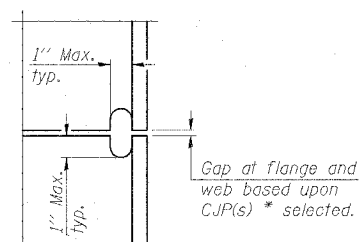
Designation	F	Ft	Fw	W	Wf	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 5/8"	1/2"
x89	12 1/2"	3/4"	1/2"	7 3/4"	5 5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 5/8"	1/2"
HP 12x84	10"	7/8"	1/2"	6 1/2"	5 5/8"	1/2"
x74	10"	7/8"	1/2"	6 1/2"	5 5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	5 5/8"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	5 5/8"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	5 5/8"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	5 5/8"	3/8"
HP 8x36	7"	5/8"	1/2"	4 1/4"	5 5/8"	3/8"

WELDED PLATE FIELD SPLICE

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



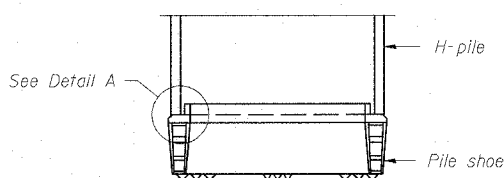
ELEVATION



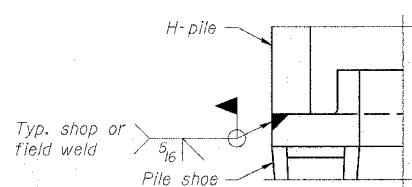
DETAIL C

COMPLETE PENETRATION WELD SPLICE

- * Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- ** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- *** Interrupt welds 1/4" from end of each pile.



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

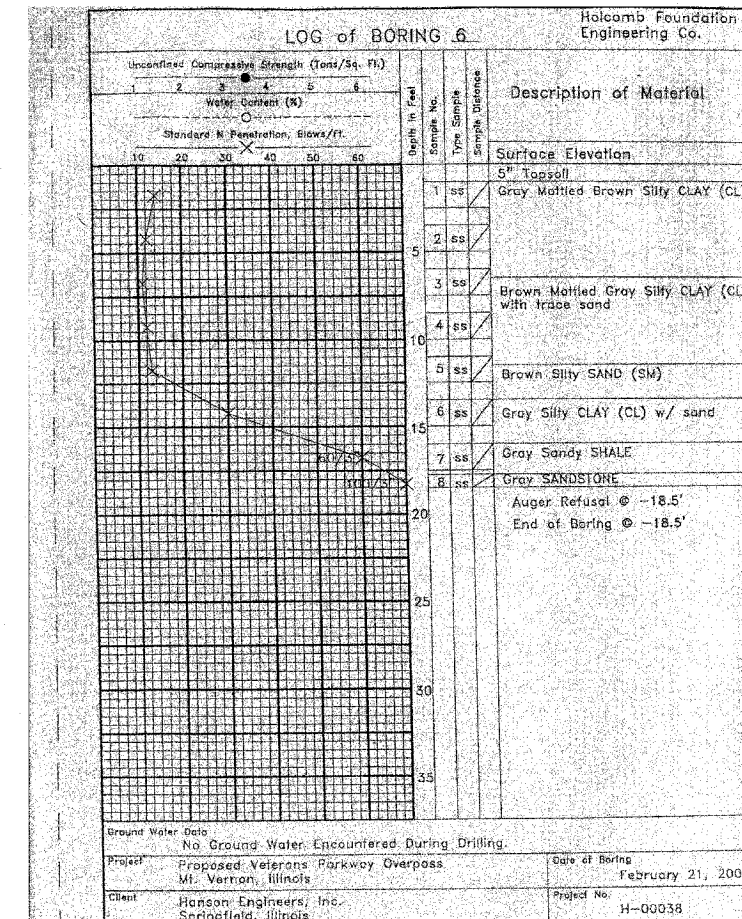
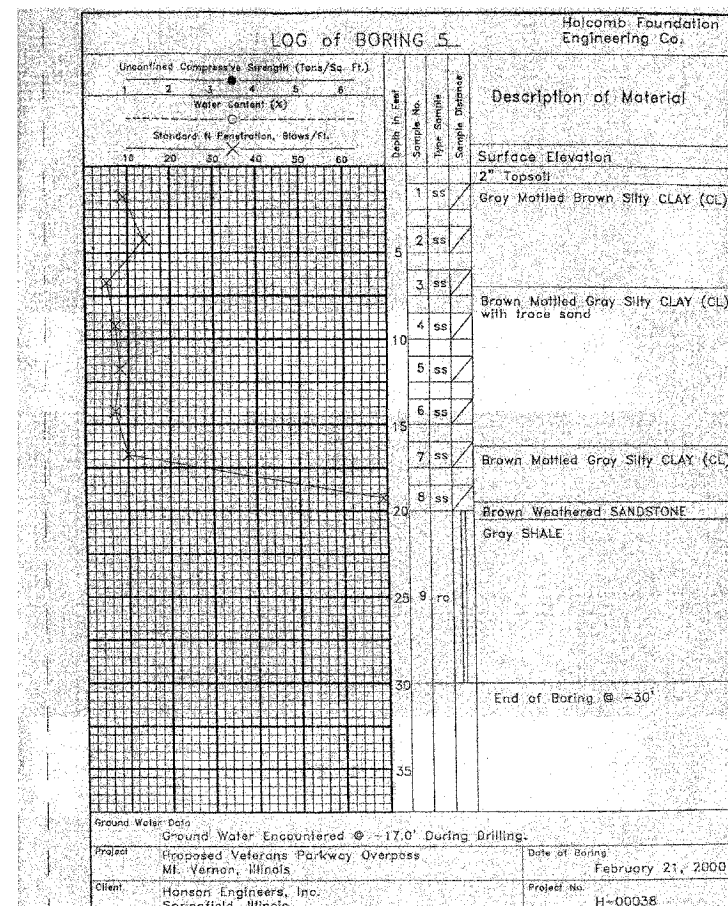
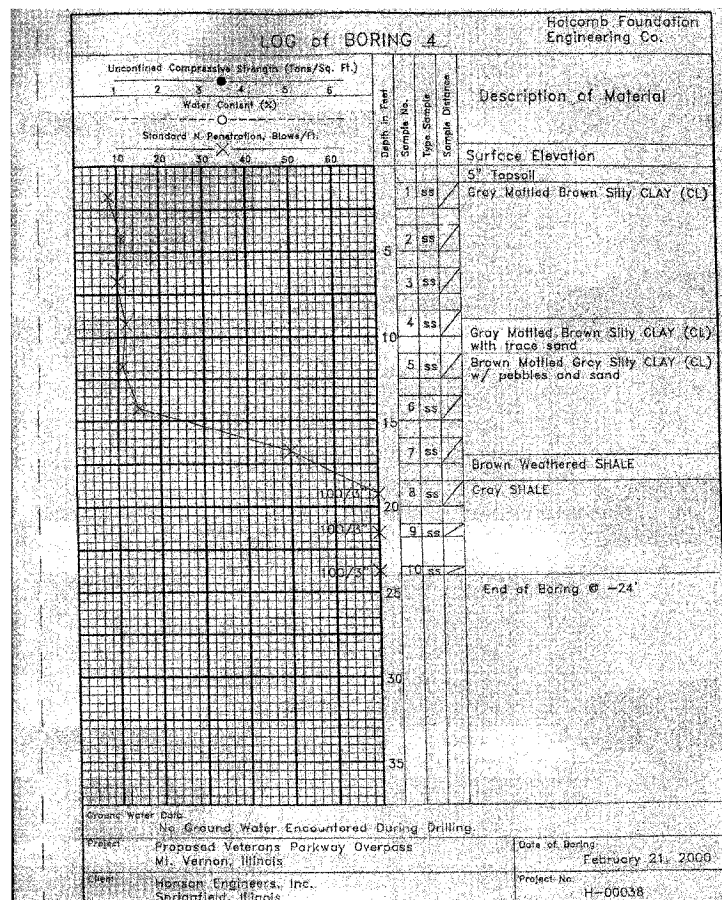
PILE DETAILS
VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
SECTION (41-3)HBK
JEFFERSON COUNTY
STATION 49+72.27
STRUCTURE NO. 041-0108

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DATE
03-14-07

March 2007 Submittal
 LAYOUT: MMN 03/12/07
 DRAWING: DAB 03/12/07
 REVIEWED: / / /



3/21/2007
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LAYOUT	GRB	02/22/04
DRAWN	DMP	02/22/04
REVIEWED	TEH	02/22/04

BORINGS
 VETERANS MEMORIAL DR. over F.A.I. ROUTES 57/64
 SECTION (41-3)HBK
 JEFFERSON COUNTY
 STATION 49+72.27
 STRUCTURE NO. 041-0108

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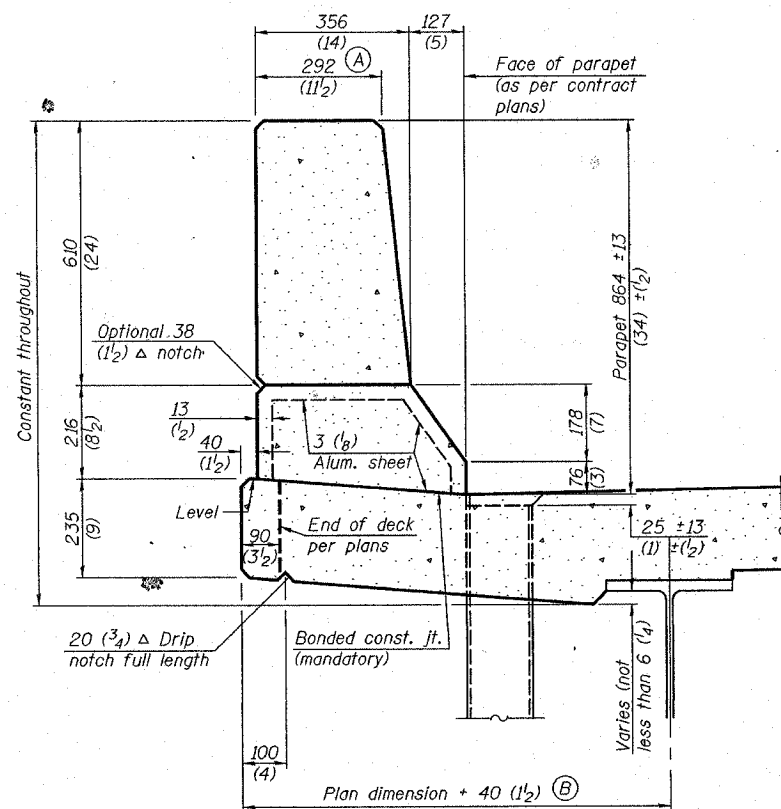
SHEET NO.
 98S2019A
 DATE
 03-14-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

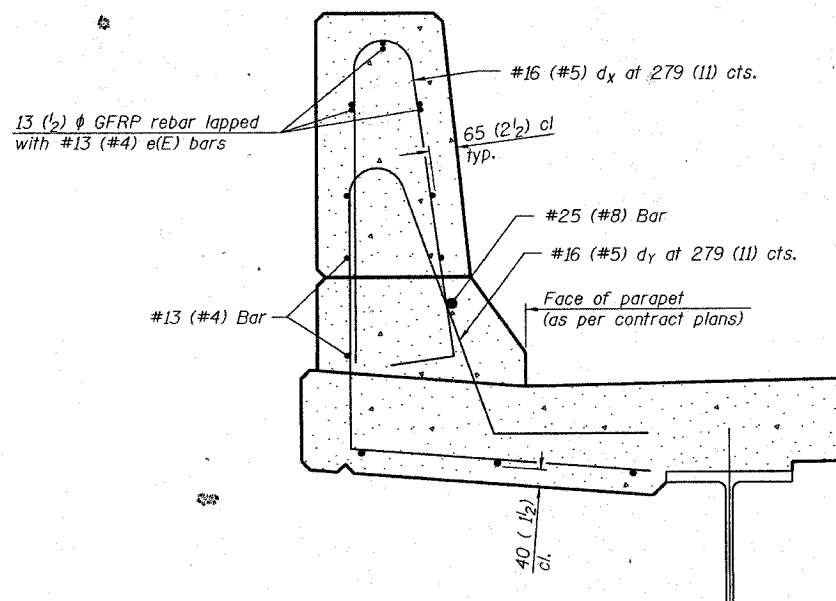
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
P.A.L. 57/64	41-5...	Jefferson	5/8	295A.	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract # 98963

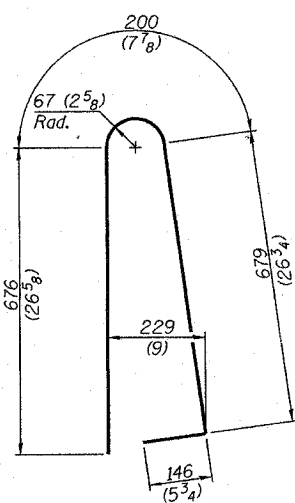
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SHEETS



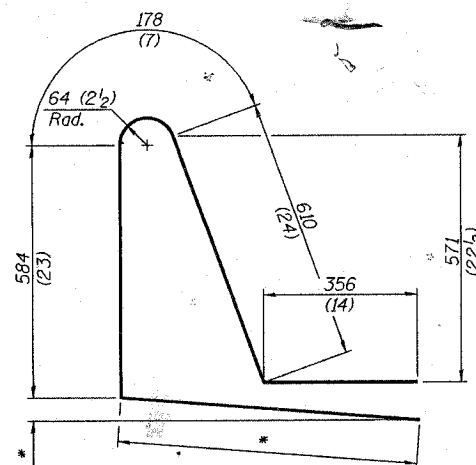
SECTION
(Showing dimensions)



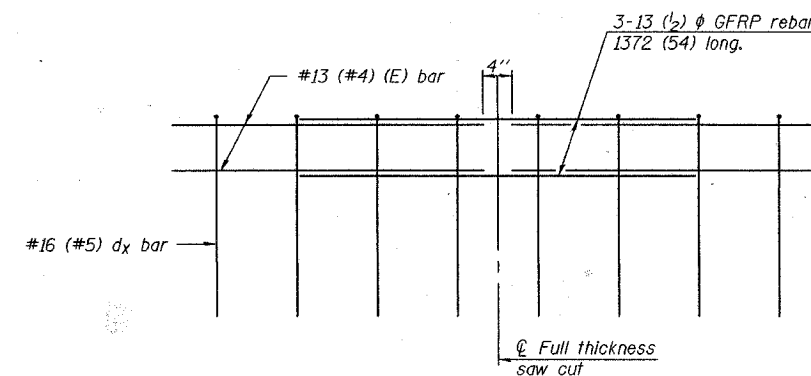
SECTION
(Showing required reinforcement)



BAR dx(e)



BAR dx(e)
* Per contract plans

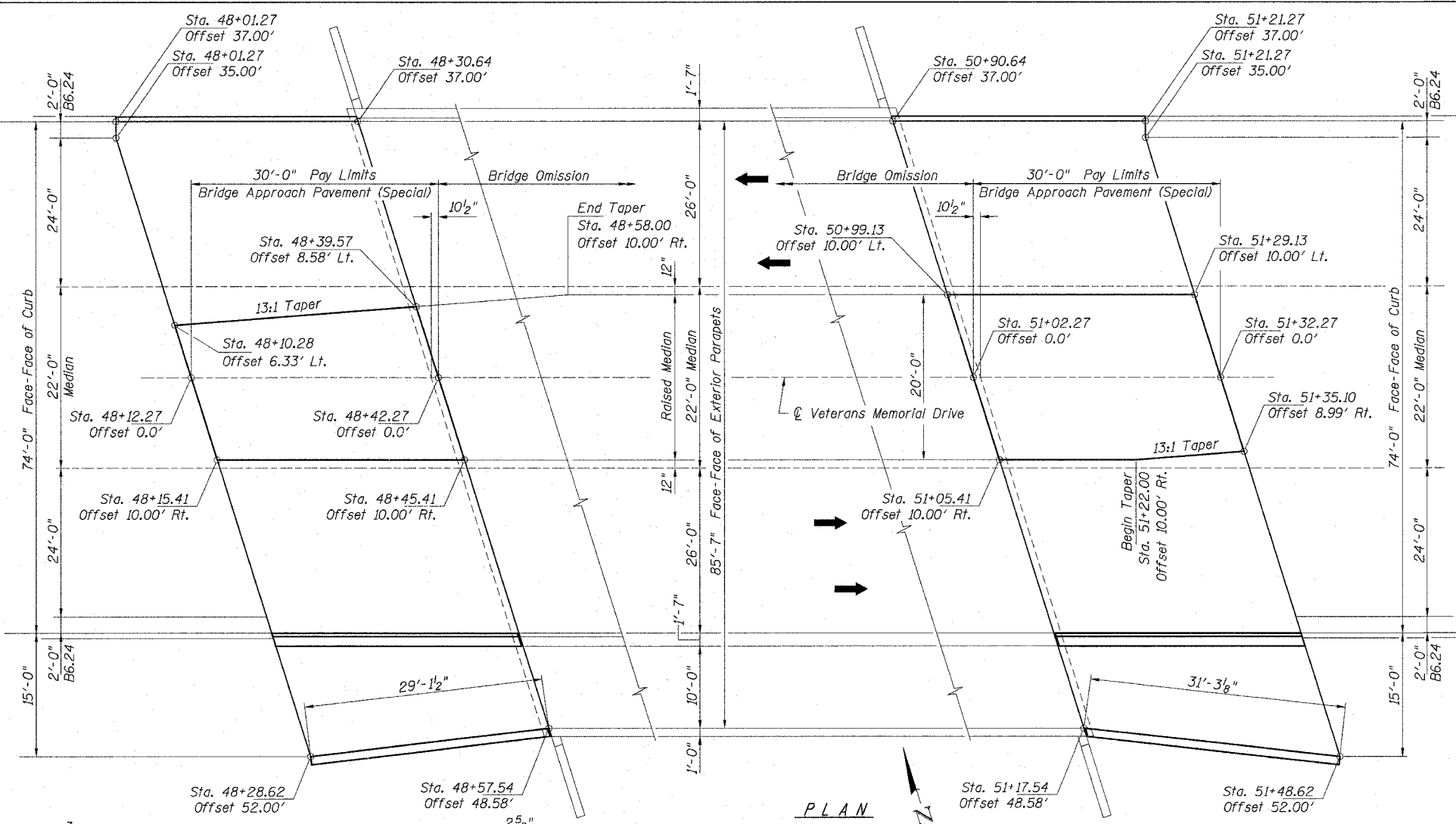


GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section)

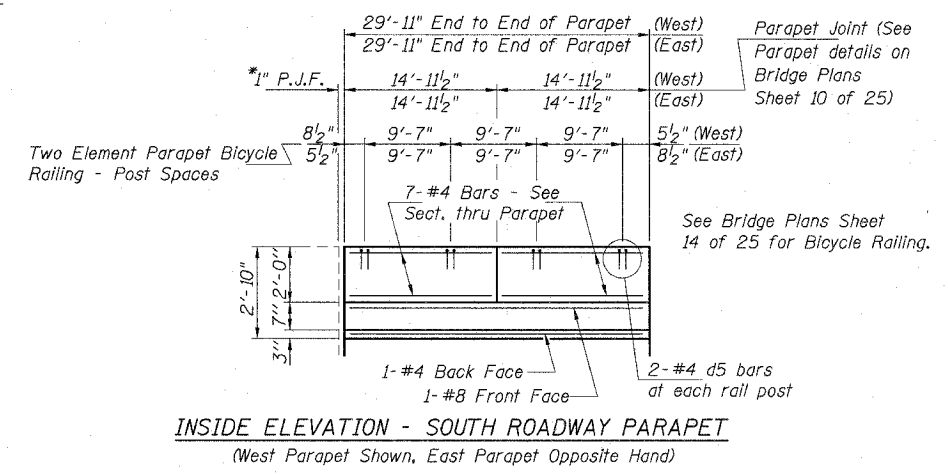
GENERAL NOTES
All dimensions shall remain the same as shown on contract plans, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0422 m³/m (0.165 cu. yds./ft.) of parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all other locations. Adjust/add joint locations to maintain 3 to 6 meter (10 to 20 foot) spacing.

**CONCRETE PARAPET
SLIPFORMING OPTION**

F.A.I. SECTION COUNTY TOTAL SHEETS SHEET NO.	57/64 (41-3)HBK JEFFERSON 18 296
STA. TO STA.	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
CONTRACT NO. 98963	

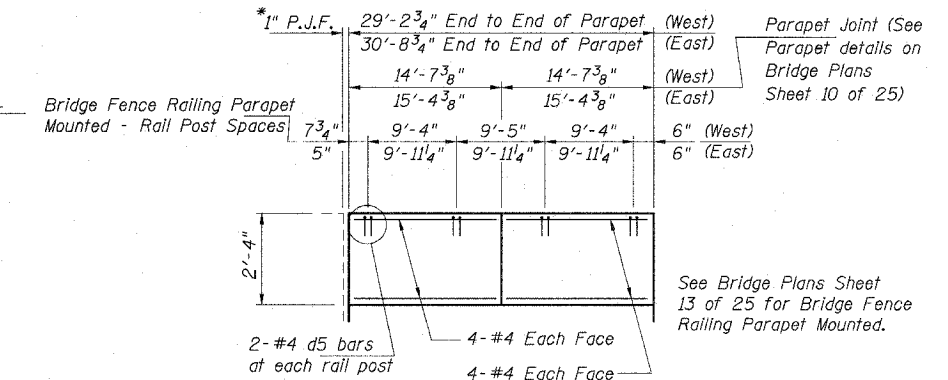


PLAN



INSIDE ELEVATION - SOUTH ROADWAY PARAPET
 (West Parapet Shown, East Parapet Opposite Hand)

Note:
 All dimensions are measured along back face of parapets.

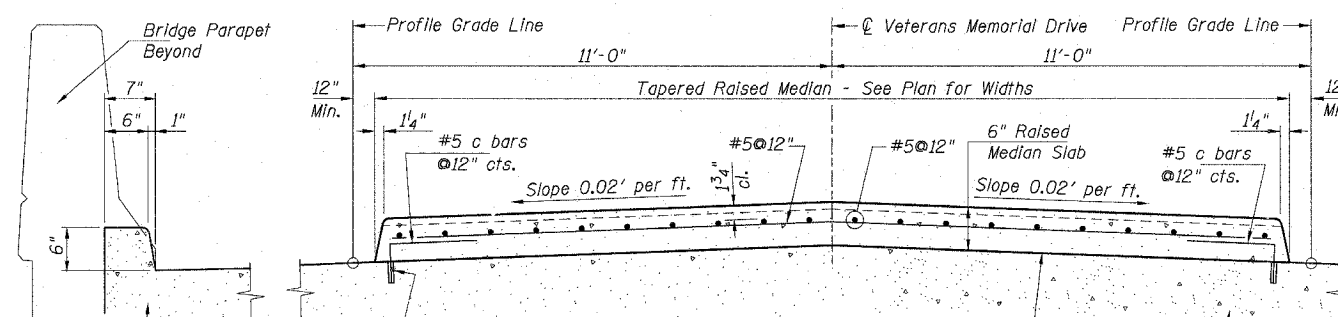
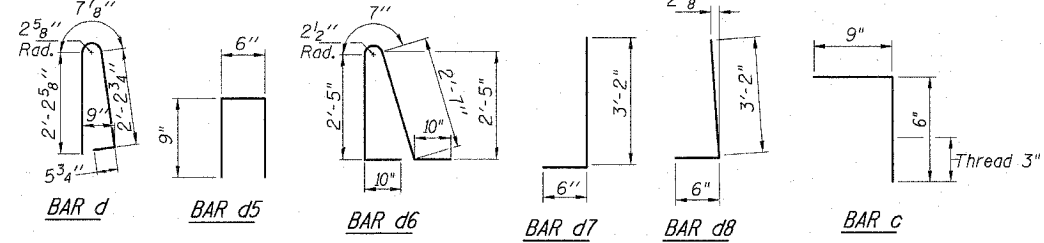


INSIDE ELEVATION - WALKWAY PARAPET
 (West Parapet Shown, East Parapet Opposite Hand)

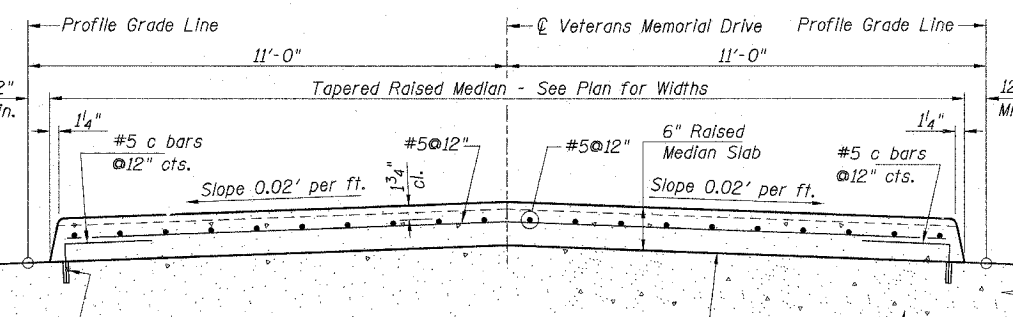
Notes:
 The cost of, W.B. Curb, Raised Median, Roadway Parapet, Walkway Parapet, and reinforcement bars shown shall be included with the cost for 30'-0" Approach Pavement (Special).
 All Parapet and Median Reinforcement shall be Epoxy Coated.

BILL OF MATERIAL

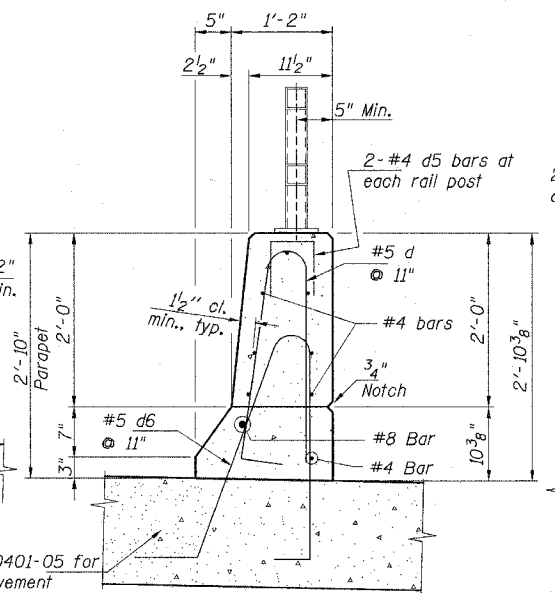
Item	Unit	Quantity
Bicycle Railing	Foot	58
Bridge Fence Railing	Foot	58
Bridge Approach Pavement (Special)	Sq. Yd.	593



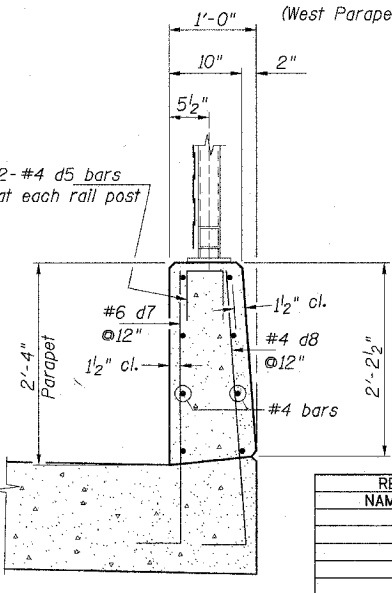
SECTION THRU APPR. CURB
 (At Exterior Curb West Bound Lanes)



SECTION THRU RAISED MEDIAN



SECTION THRU PARAPET
 (Parapet Between Roadway & Walkway)



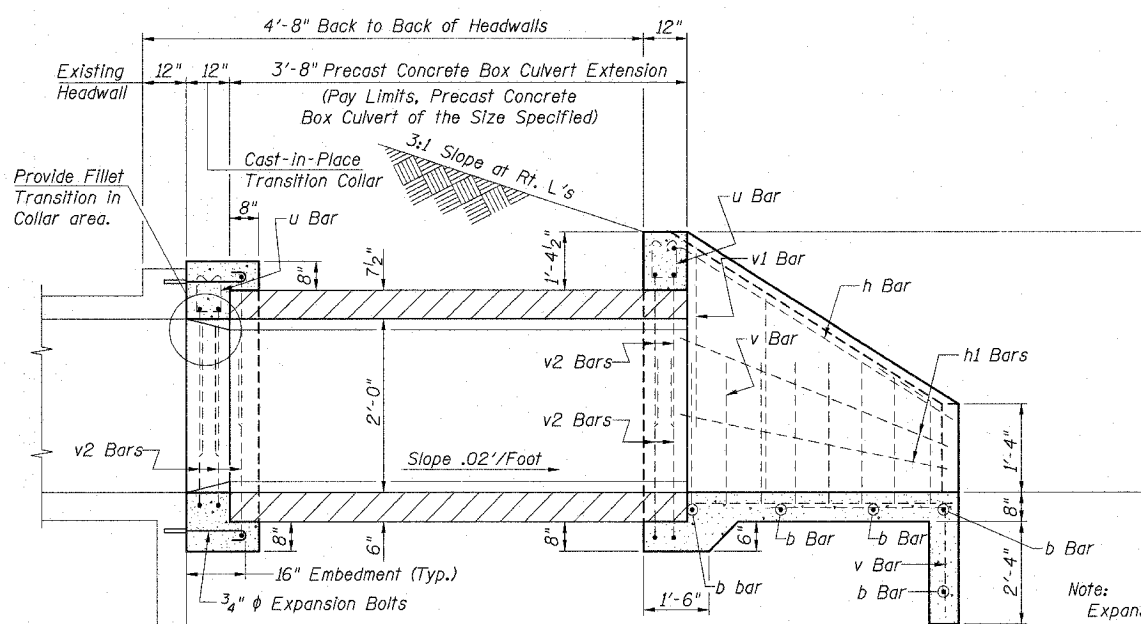
SECTION THRU PARAPET
 (Exterior Parapet at Walkway)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
APPROACH PAVEMENT DETAILS SHEET
VETERANS MEMORIAL DRIVE INTERCHANGE SECTION (41-3)HBK
 SCALE: DATE 3-22-07 DRAWN BY RLT CHECKED BY MTM

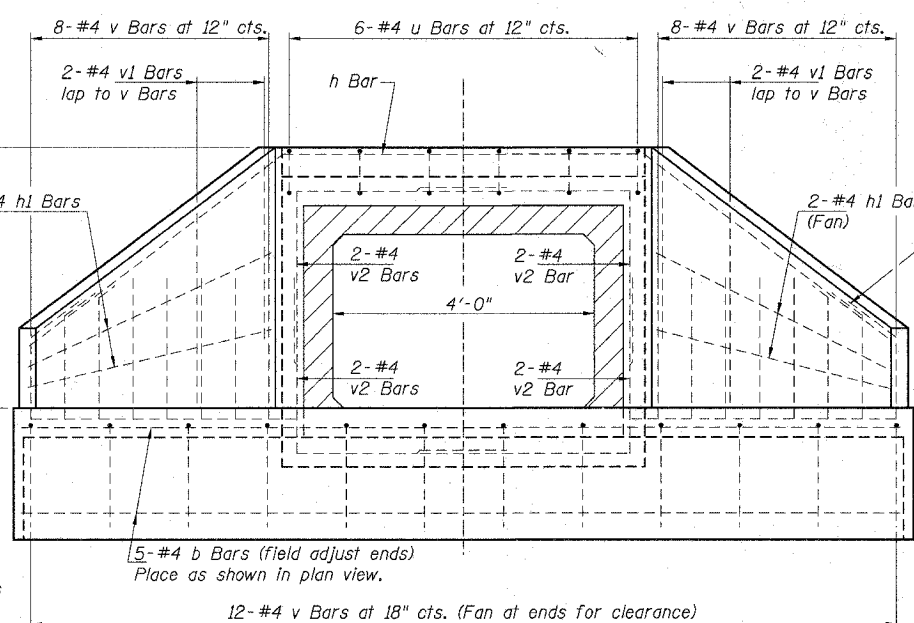
LAYOUT	RLT	02/26/04
DRAWN	LEO	04/12/04
REVIEWED	MTM	03/22/07

3/21/2007
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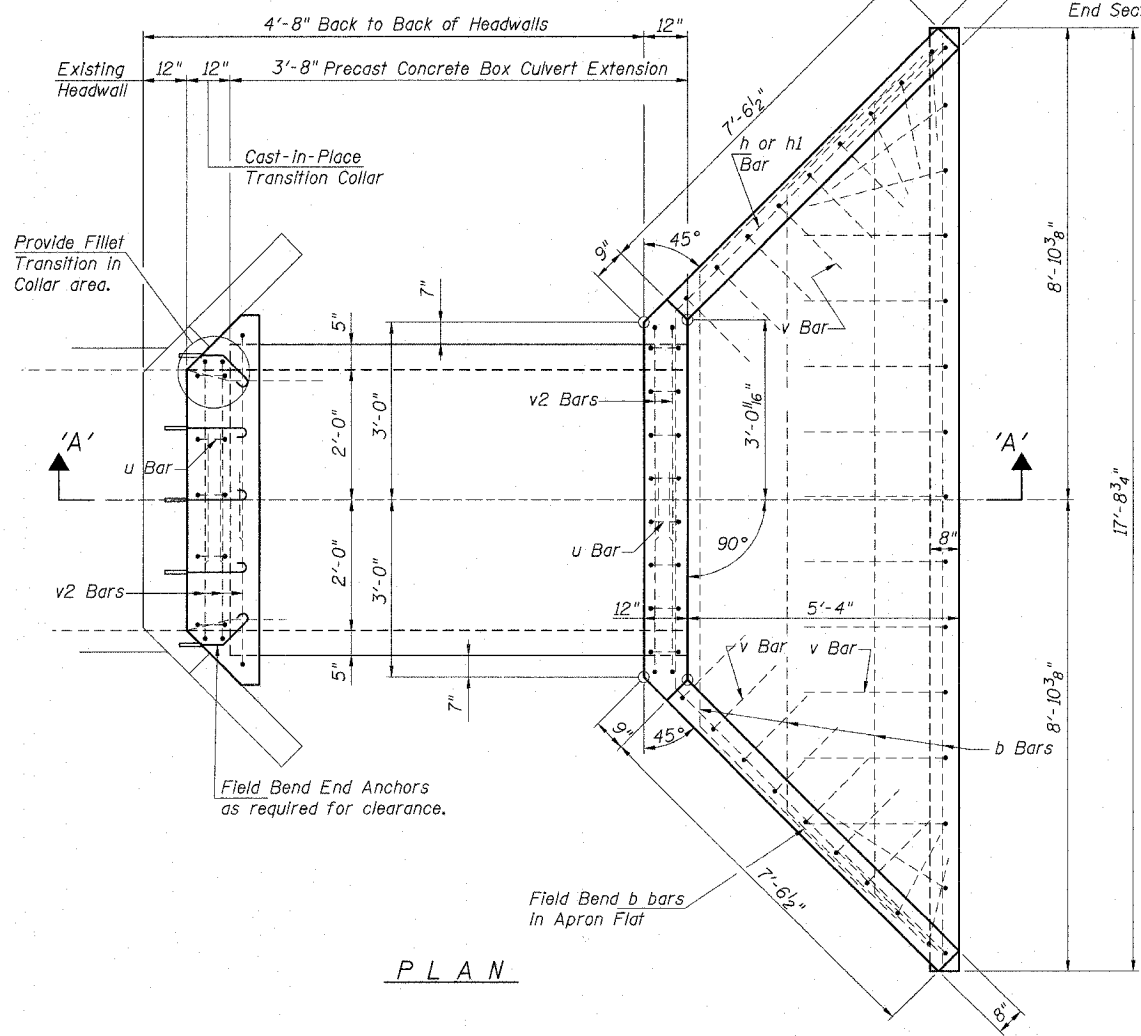


SECTION 'A'-A'
(Along C of Culvert)

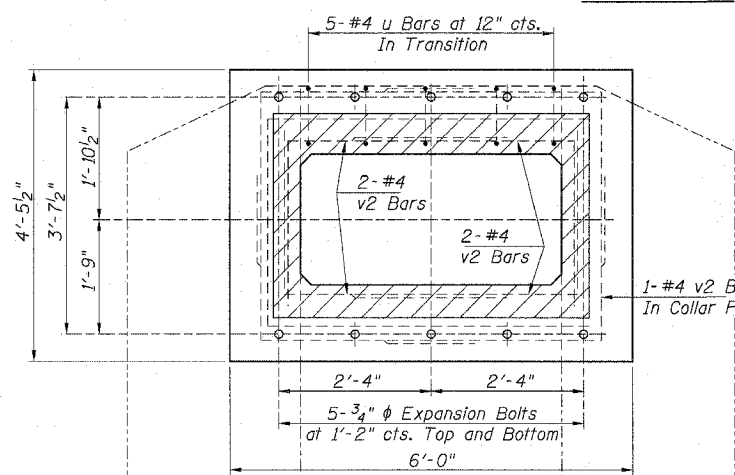
Note:
Expansion bolts shall be 3/4" ϕ hooked bolts. Hooked bolts shall extend a minimum of 16" into new concrete. Cost of Expansion bolts shall be included with 'Box Culvert End Sections'.



END VIEW



PLAN



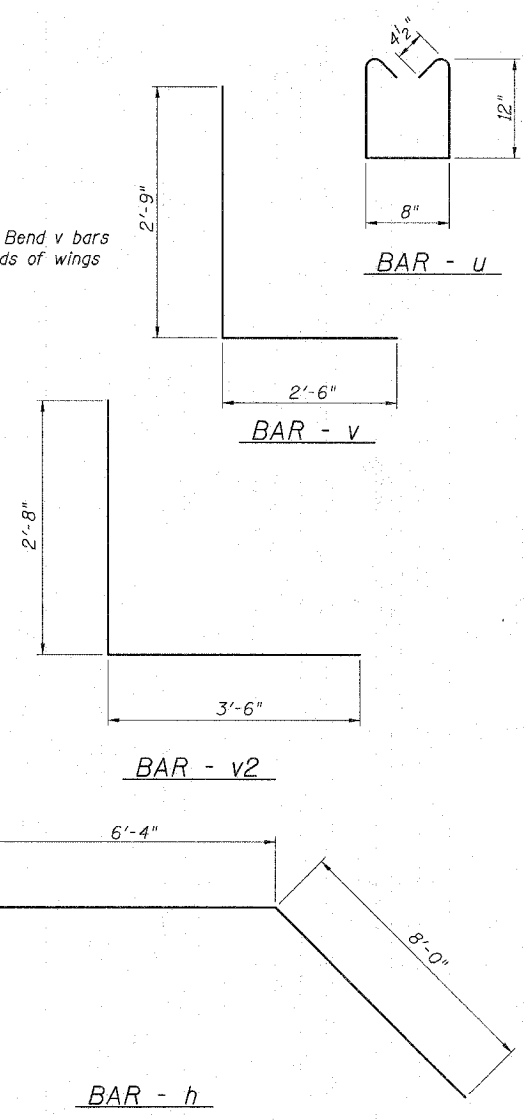
END ELEVATION VIEW
(At existing Culvert Showing Transition Collar)

REINFORCEMENT TABLE
(One End Section)

Bar	No.	Size	Length	Shape
b	5	#4	17'-3"	—
h	1	#4	22'-4"	∧
h1	4	#4	7'-8"	—
u	11	#4	3'-5"	⊔
v	28	#4	5'-3"	⊔
v1	4	#4	3'-1"	—
v2	20	#4	6'-2"	⊔

GENERAL NOTES

Build tops of headwalls parallel to grade line.
If embankment slope above headwall is flatter than 2:1, provide wings for 2:1 slope.
Reinforcing shapes shown, may be either shop or field formed.
The following quantities are for 1 (one) Concrete End Section with Transition Collar, and are for estimation purposes only. The end section shall be paid for at the unit price each for 'Box Culvert End Sections' of the size specified and shall include the cost of concrete and steel reinforcement.
Concrete for End section = 4.6 Cu. Yds.
Reinforcement for End Section = 250 Lbs.
Concrete for Transition Collar = 0.8 Cu. Yds.
Reinforcement for Transition Collar = 60 lbs.
The cost for Transition Collar quantities shall be included in the unit price for 'Box Culvert End Sections'



March 2007 Submittal
3/21/2007
i:\984095\984095\Struct\Sheet\Final Plans\03-18-04\F-Culvert-Ext 7.13.88

LAYOUT	MM	03/12/07
DRAWN	DAB	03/12/07
REVIEWED	GBR	05/20/04
REVIEWED	GBR	05/20/04

REINFORCED CONCRETE END SECTION FOR PRECAST BOX CULVERT
24" HIGH x 48" WIDE
STATION 74+13.88

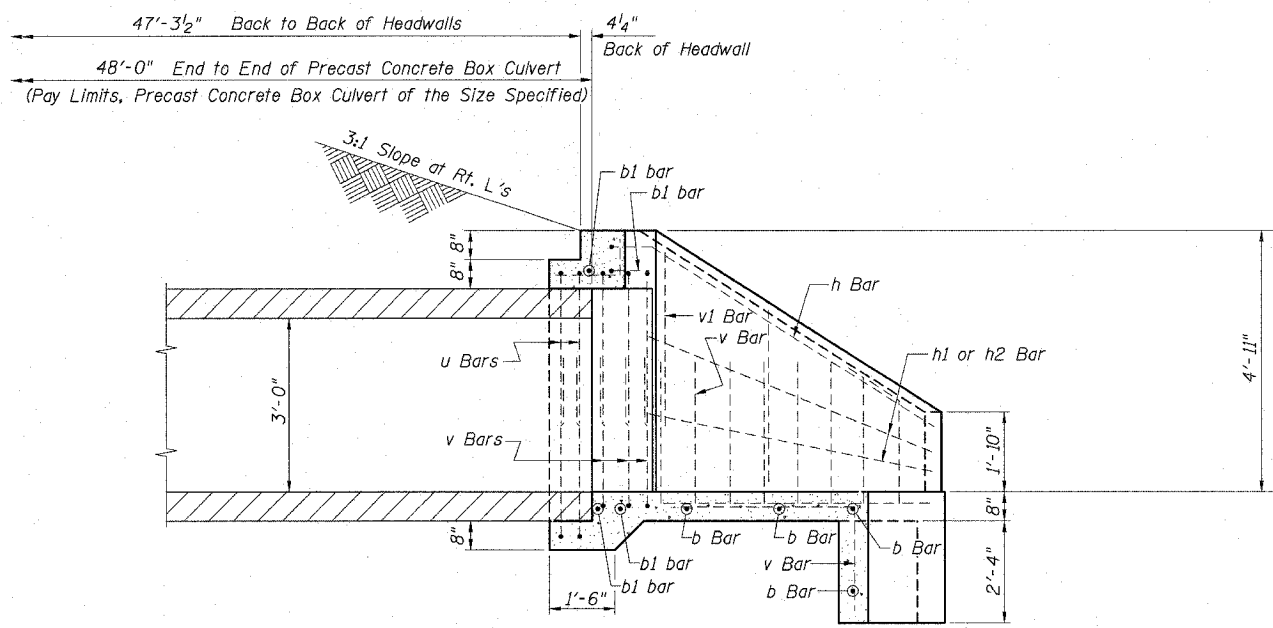
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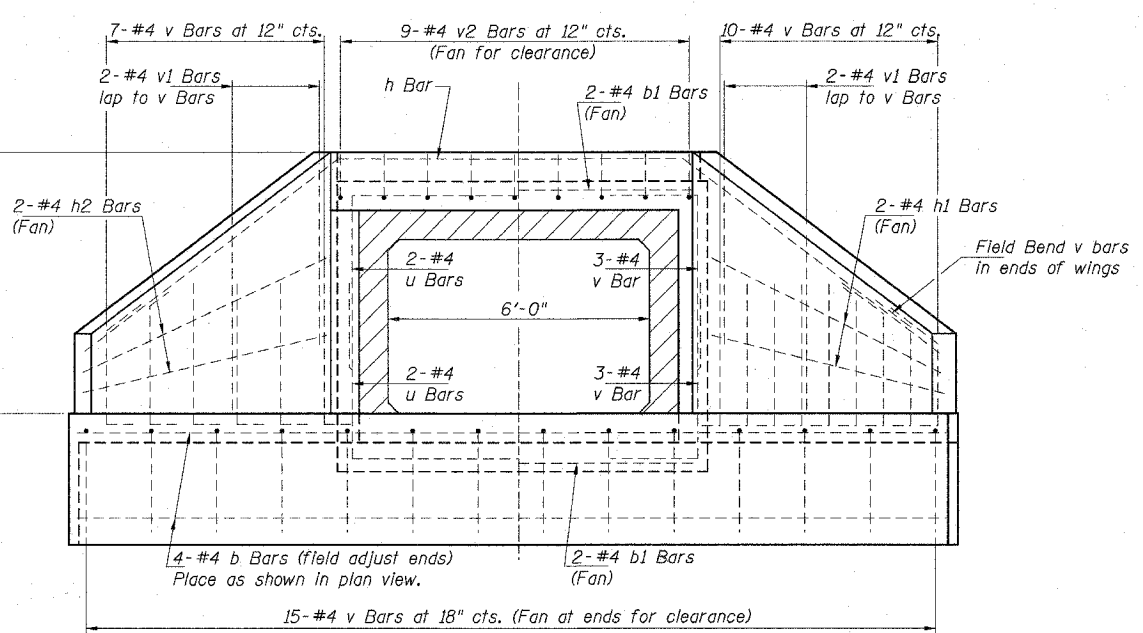
JOB NO. 98S2019A
DATE 03-14-07

For construction requirements, See Section 540 of the Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction.

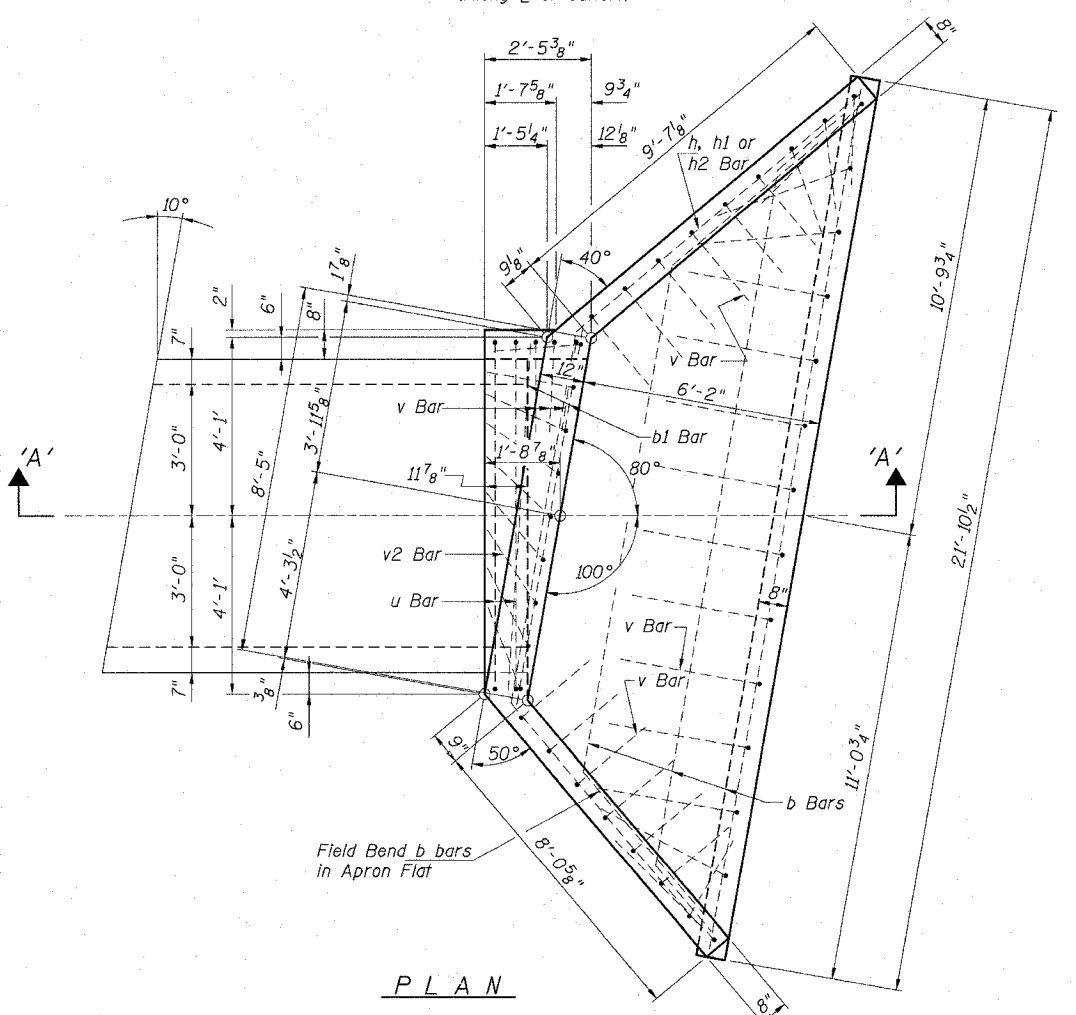
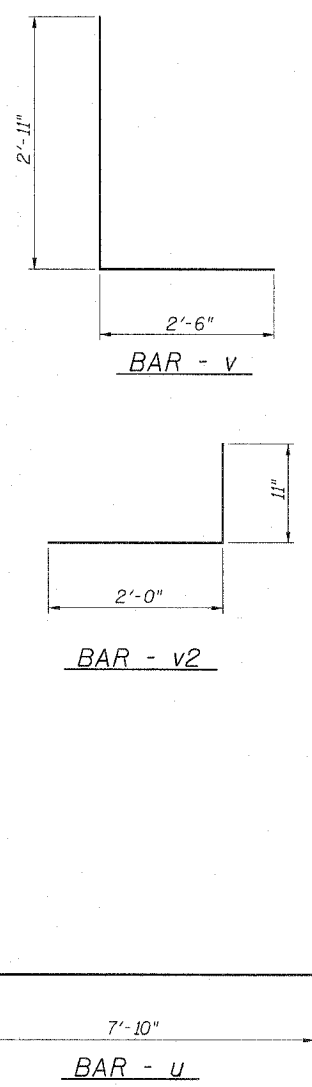
F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64 (41-3)HBK	JEFFERSON	518	298
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 98963			



SECTION 'A'-A'
(Along C of Culvert)



END VIEW



PLAN

REINFORCEMENT TABLE

Bar	No.	Size	Length	Shape
b	4	#4	21'-4"	—
b1	4	#4	8'-5"	—
h	1	#4	27'-7"	∩
h1	2	#4	10'-0"	—
h2	2	#4	8'-9"	—
u	4	#4	14'-4"	⊔
v	38	#4	5'-5"	—
v1	4	#4	3'-9"	—
v2	9	#4	2'-11"	—

GENERAL NOTES

Build tops of headwalls parallel to grade line.
 If embankment slope above headwall is flatter than 2:1, provide wings for 2:1 slope.
 Reinforcing shapes shown, may be either shop or field formed.
 The following quantities are for 1 (one) Concrete End Section and are for estimation purposes only. The end section shall be paid for at the unit price each for 'Box Culvert End Sections' of the size specified and shall include the cost of concrete and steel reinforcement.
 Cubic Yards of Concrete = 6.8 Cu. Yds.
 Pounds of Reinforcement Bars = 330 Lbs.

For construction requirements, See Section 540 of the Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction.

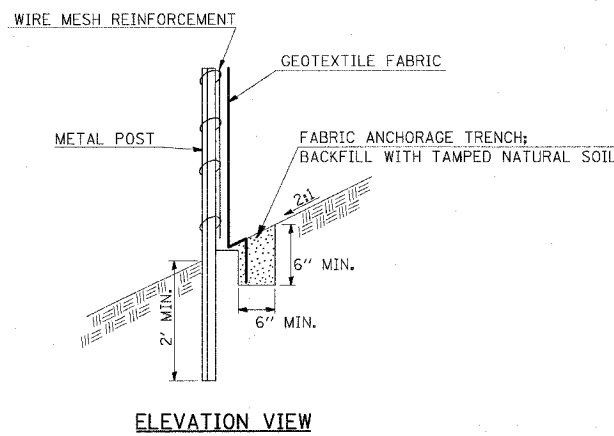
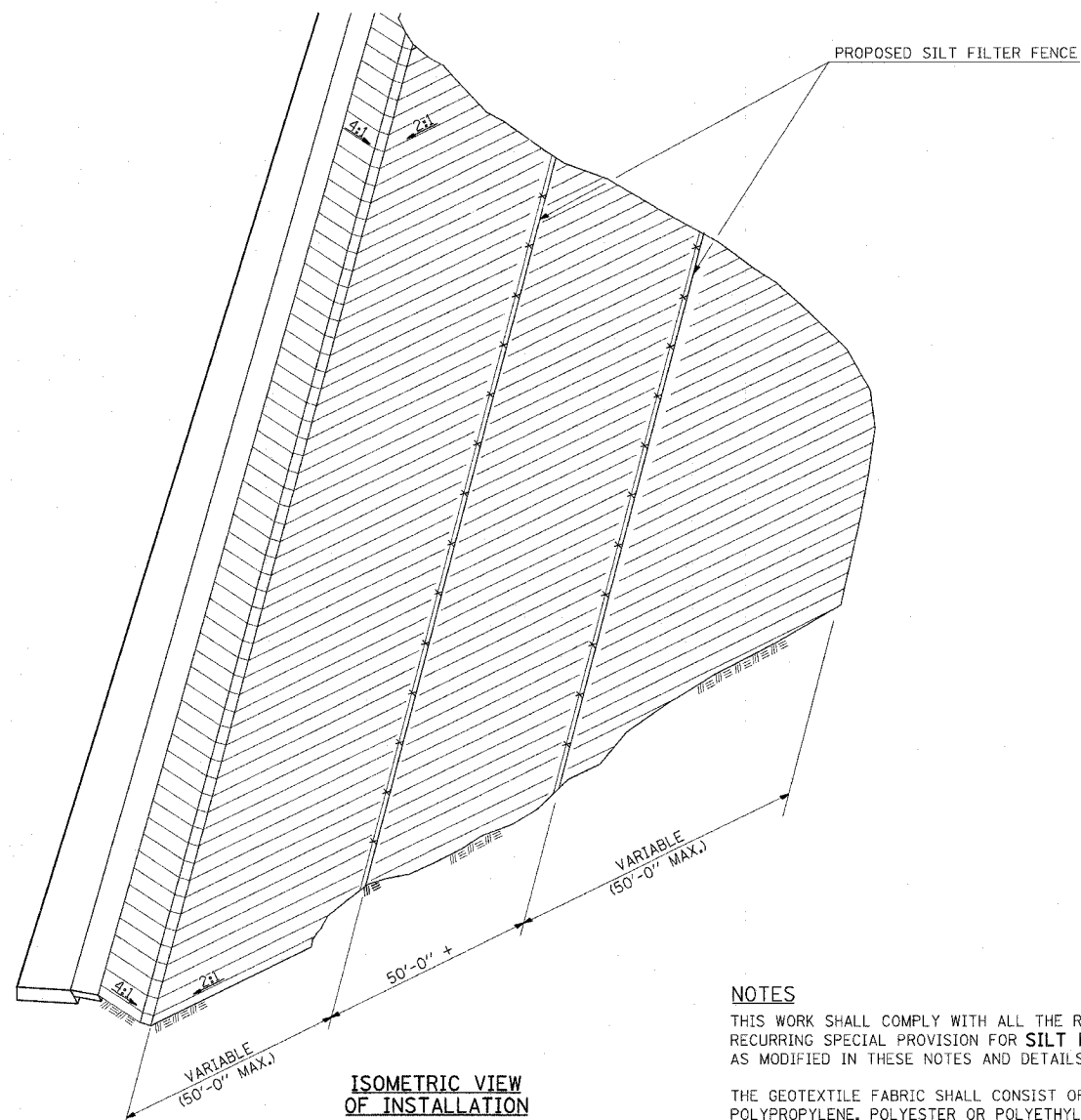
REINFORCED CONCRETE END SECTION
 FOR PRECAST BOX CULVERT
 36" HIGH x 72" WIDE
 AT 42nd STREET & ILLINOIS POWER ACCESS ROAD

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 JOB NO. 98S2019A
 DATE 03-14-07

3/21/2007
 I:\98\05\98&20\98\Struct\Sheet\Final Plans 03-18-04\FP-42nd Sheet Culvert.rvt
 LAYOUT: RMD 05/20/04
 DRAWN: RMD 05/20/04
 REVIEWED: GBR 05/20/04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)HBK	JEFFERSON	518	299
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETAIL OF SILT FILTER FENCE



NOTES

THIS WORK SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE RECURRING SPECIAL PROVISION FOR SILT FILTER FENCE, EXCEPT AS MODIFIED IN THESE NOTES AND DETAILS.

THE GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN FILAMENTS OF POLYPROPYLENE, POLYESTER OR POLYETHYLENE. NEEDLE PUNCHED, HEAT-BONDED OR RESIN BONDED FABRIC WILL NOT BE PERMITTED.

THE WIRE MESH REINFORCEMENT SHALL BE A MINIMUM OF 36" IN HEIGHT, HAVE A MINIMUM WIRE SIZE OF .14 GAGE AND A MAXIMUM WIRE SPACING OF SIX INCHES. WOVEN WIRE FENCING MAY BE USED PROVIDED IT MEETS THESE REQUIREMENTS.

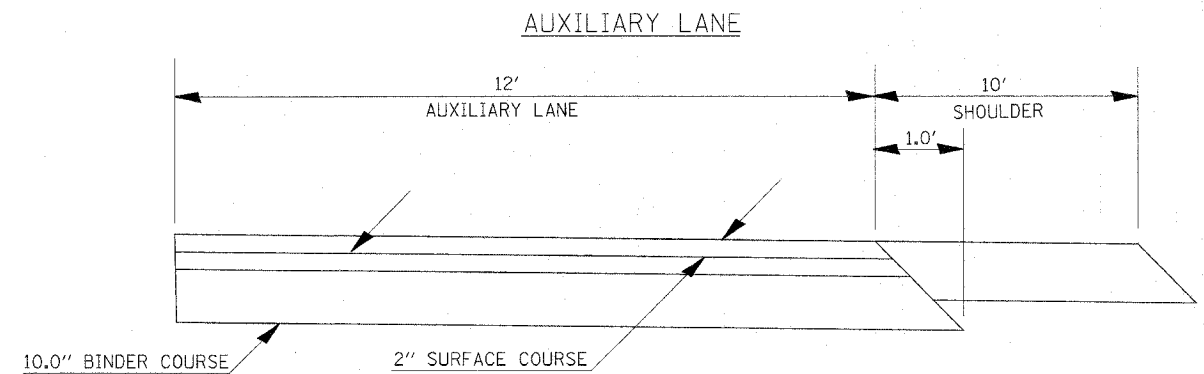
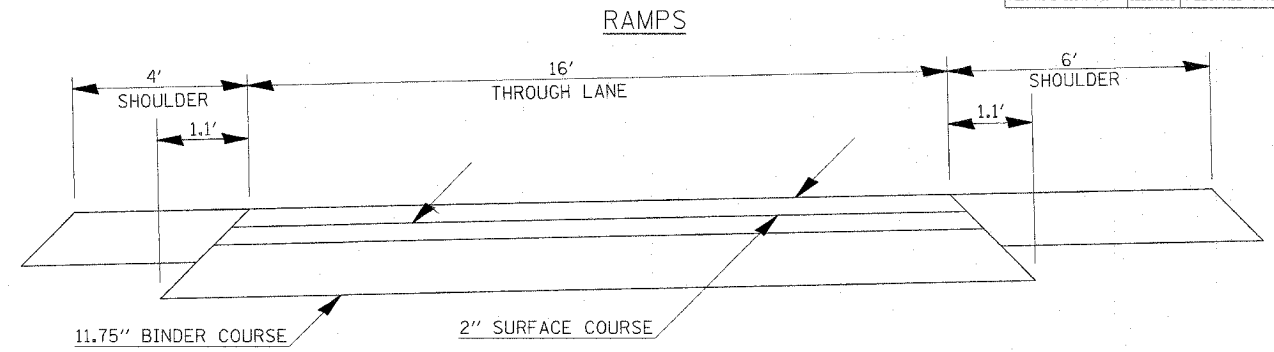
THE WIRE MESH REINFORCEMENT SHALL BE ATTACHED TO THE STEEL POST WITH TIE WIRES. THE GEOTEXTILE FABRIC SHALL BE ATTACHED TO THE WIRE MESH REINFORCEMENT WITH HOG RINGS. THE STEEL POSTS SHALL BE A MINIMUM OF 6' LONG AND SHALL BE PLACED ON 10' CENTERS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PERIMETER EROSION BARRIER AND FENCE, AS MEASURED (EROSION CONTROL) IN PLACE. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL MATERIAL, EQUIPMENT AND LABOR TO CONSTRUCT THE FENCE AS DESCRIBED.

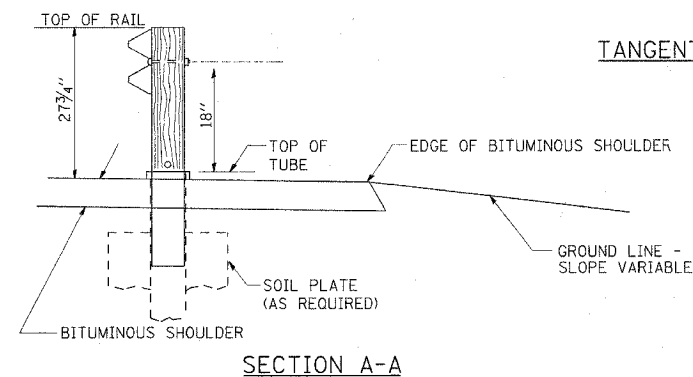
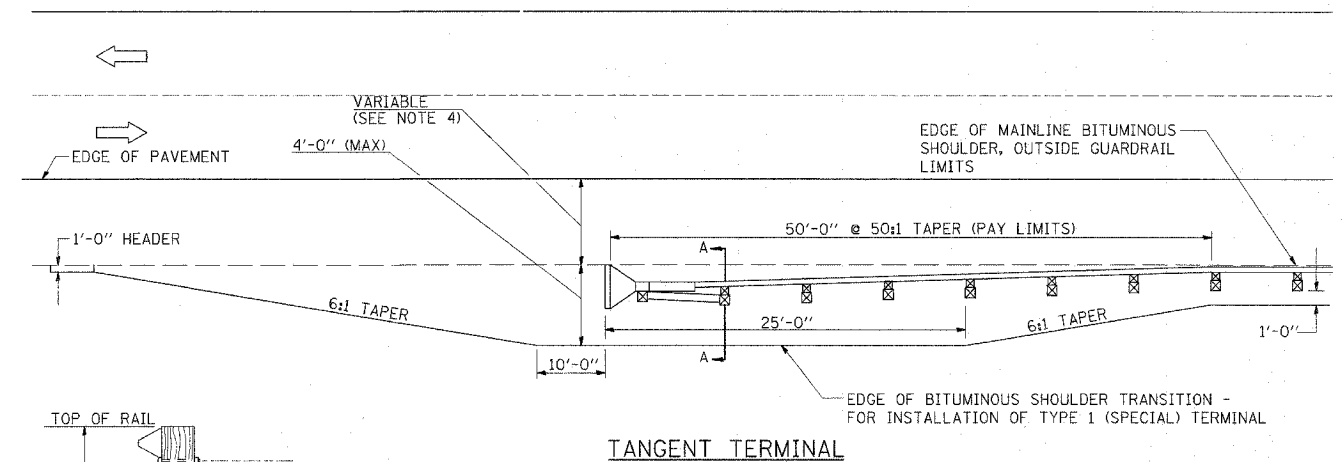
REVISIONS	
REVISION	DATE
REVISION	DATE
REVISION	DATE
REVISION	DATE

STD. 9-40

EDGE OF BINDER COURSE



DETAIL - BITUMINOUS SHOULDER AT GUARDRAIL TERMINAL



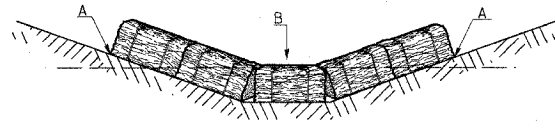
NOTES

- 50:1 TAPER REQUIRED SO THE EXTRUDER HEAD WILL NOT ENCRUSH ON THE SHOULDER.
- ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF HORIZONTAL DISPLACEMENT (V:H).
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- EDGE OF EXTRUDER HEAD SHALL BE PLACED AT THE OUTSIDE EDGE OF MAINLINE SHOULDER.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/64	(41-3)H&K	JEFFERSON	308	300
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

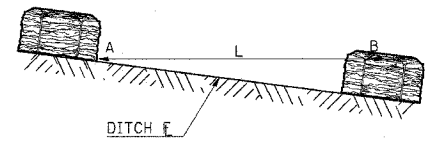
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY STRAW BALE DITCH CHECK IN DRAINAGEWAY



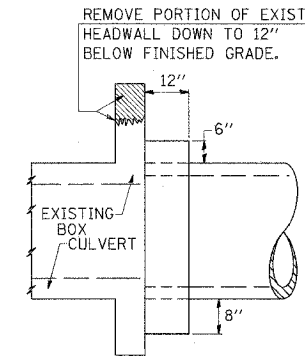
POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS

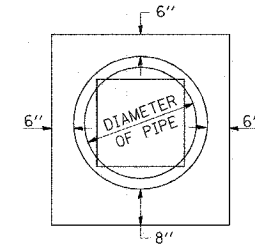


L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION
 B = THE LOW POINT IN CENTER OF CHECK

DETAILS OF CONCRETE COLLAR



SIDE VIEW



END VIEW

TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.16
15"	0.19
18"	0.21
24"	0.29
30"	0.37
36"	0.44
42"	0.53
48"	0.62
54"	0.71
60"	0.81
72"	1.03

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR**, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
REVISED	
REVISED	

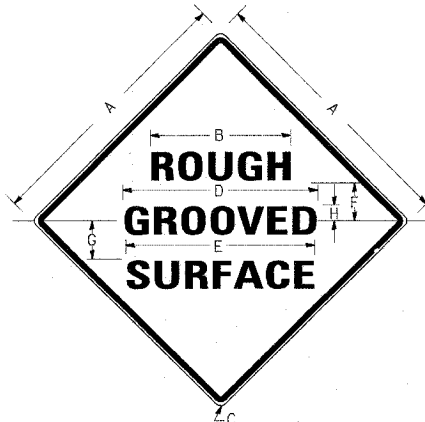
STD. 9-108

REVISIONS	
REDRAWN	2-15-89
REVISED	8-19-94
REVISED	
REVISED	

STD. 9-19

ILLINOIS STANDARD

W8-I106



COLORS:

LEGEND AND BORDER- BLACK NON-REFLECTORIZED
 BACKGROUND- ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
48X48	48.0	24.1	3.0	34.0	33.0	6.0	13.0	3.5

SIGN SIZE	SERIES LINES			MAR-GIN	BOR-DER	BLANK STD.
	1	2	3			
48X48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES

NOTES:

PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED, THE CONTRACTOR SHALL HAVE ERECTED "ROUGH GROOVED SURFACE" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "ROUGH GROOVED SURFACE" SIGNS UNTIL THE COLDMILLED SURFACE IS COVERED WITH LEVELING BINDER OR SURFACE COURSE.

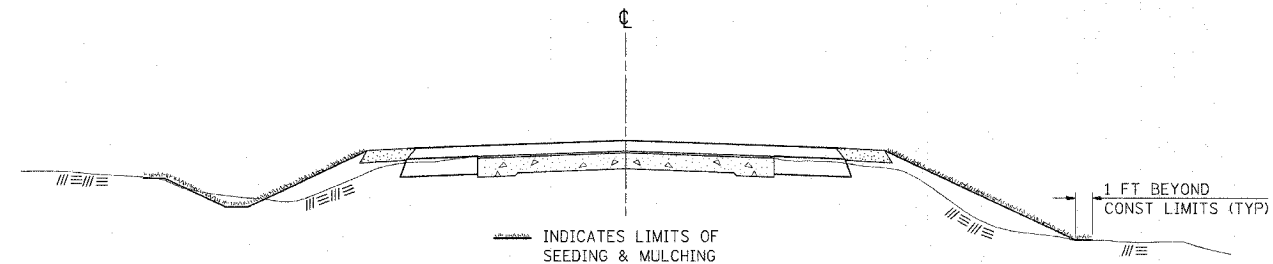
IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS	
REDRAWN	2-15-89
REVISED	4-6-93
REVISED	
REVISED	

STD. 9-39

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	

STD. 9-12

PLOT DATE = 8/31/2007 10:22 AM
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