

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	COMMENTS
60	24" W	14042722.330	2456684.337	414.24'	3.18'	417.42'	UTILITY QUALITY "A"
60A	4" UNK	14042725.390	2456680.732	409.70'	7.59'	417.29'	UTILITY QUALITY "A"
61	20" W	14042705.070	2456586.129	412.70'	4.01'	416.71'	UTILITY QUALITY "A"
62	20" W	14042690.440	2456899.898	415.02'	3.65'	418.67'	UTILITY QUALITY "A"
63	2" UNK	14042281.530	2456155.952	414.84'	3.61'	418.45'	UTILITY QUALITY "A"
64	36" W	14042316.230	2456136.414	413.76'	4.43'	418.19'	UTILITY QUALITY "A"
65	2" UNK	14042314.090	2456133.884	414.84'	3.51'	418.35'	UTILITY QUALITY "A"
66	8" UNK	14042450.450	2455994.052	414.83'	3.40'	418.23'	UTILITY QUALITY "A"
67	2" UNK	14042454.430	2455998.409	415.44'	2.85'	418.29'	UTILITY QUALITY "A"
68	4" UNK	14042457.470	2456002.037	414.82'	3.45'	418.27'	UTILITY QUALITY "A"
69	36" W	14042464.890	2456012.026	414.96'	3.67'	418.63'	UTILITY QUALITY "A"
70	20" W	14042286.640	2456154.851	412.22'	6.14'	418.36'	UTILITY QUALITY "A"
71	20" W	14042241.950	2455615.171	416.05'	5.87'	421.92'	UTILITY QUALITY "A"
72	20" W	14042232.410	2455517.658	418.91'	4.17'	423.08'	UTILITY QUALITY "A"
73	20" W	14042156.060	2455213.133	420.68'	4.48'	425.16'	UTILITY QUALITY "A"
74	20" W	14042120.280	2455122.182	420.08'	6.95'	427.03'	UTILITY QUALITY "A"
75	20" W	14042531.070	2457205.577	411.43'	3.76'	415.19'	UTILITY QUALITY "A"
76	24" W	14042583.630	2457375.789	410.73'	2.57'	413.30'	UTILITY QUALITY "A"
77	4" FOC	14042590.660	2457382.922	410.40'	3.30'	413.70'	UTILITY QUALITY "A"
78	(2)2" FOC	14042604.670	2457401.268	409.76'	3.79'	413.55'	UTILITY QUALITY "A"
79	(2)2" FOC	14042433.810	2457556.975	406.63'	7.50'	414.13'	UTILITY QUALITY "A"
80	4" FOC	14042430.280	2457546.292	407.51'	6.27'	413.78'	UTILITY QUALITY "A"
81	*36" W	14042421.610	2457539.600	410.78'	2.75'	413.53'	UTILITY QUALITY "A"
82	UNK W	14041858.440	2456590.499	411.89'	4.38'	416.27'	SEE NOTE
83	30" W	14041843.460	2456585.801	411.68'	4.99'	416.67'	UTILITY QUALITY "A"
84	30" W	14041740.290	2456692.758	410.76'	4.22'	414.98'	UTILITY QUALITY "A"
85	24" W	14041730.210	2456681.592	410.71'	5.75'	416.46'	UTILITY QUALITY "A"
86	30" W	14041566.250	2456872.950	408.39'	7.94'	416.33'	UTILITY QUALITY "A"
87	*36" FM	14038424.830	2459419.559	413.15'	5.95'	419.10'	UTILITY QUALITY "A"
88	24" E	14043097.290	2458118.122	409.90'	2.43'	412.33'	UTILITY QUALITY "A"
89	17" E	14043051.720	2457749.264	413.05'	3.58'	416.63'	UTILITY QUALITY "A"
90	12" FM	14038436.480	2459376.954	412.23'	7.27'	419.50'	UTILITY QUALITY "A"
90A	12" FM	14038435.290	2459376.674	412.21'	7.25'	419.46'	UTILITY QUALITY "A"

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	COMMENTS
91	12" FM	14038473.320	2459293.127	414.50'	4.29'	418.79'	UTILITY QUALITY "A"
91A	12" FM	14038471.500	2459292.633	414.50'	4.22'	418.72'	UTILITY QUALITY "A"
92	12" FM	14038504.490	2459205.834	415.49'	1.90'	417.39'	UTILITY QUALITY "A"
92A	12" FM	14038503.100	2459205.251	415.58'	1.91'	417.49'	UTILITY QUALITY "A"
93	36" FM	14038733.720	2458735.084	407.51'	6.87'	414.38'	UTILITY QUALITY "A"
94	12" FM	14039149.340	2458190.417	408.41'	5.80'	414.21'	UTILITY QUALITY "A"
94A	12" FM	14039151.160	2458191.975	408.38'	6.12'	414.50'	UTILITY QUALITY "A"
95	12" W	14040384.740	2456656.310	409.58'	3.88'	413.46'	UTILITY QUALITY "A"
96	10" W	14039395.970	2457628.719	409.76'	3.90'	413.66'	UTILITY QUALITY "A"
97	12" W	14040977.440	2456072.467	409.99'	4.94'	414.93'	UTILITY QUALITY "A"
98	6" W	14040949.580	2456102.818	409.77'	4.89'	414.66'	UTILITY QUALITY "A"
99	12" W	14040968.400	2456092.057	410.09'	4.55'	414.64'	UTILITY QUALITY "A"
100	6" W	14040514.240	2457280.956	410.83'	3.86'	414.69'	UTILITY QUALITY "A"
101	24" W	14041552.710	2456856.617	410.17'	7.13'	417.30'	UTILITY QUALITY "A"
102	36" W	14042207.970	2456242.068	412.43'	7.34'	419.77'	UTILITY QUALITY "A"
103	8" UNK	14042191.050	2456241.155	414.57'	5.03'	419.60'	UTILITY QUALITY "A"
104	8" SAN	14044643.210	2454401.789	412.73'	6.11'	418.84'	UTILITY QUALITY "A"
105	12" SAN	14044443.800	2454701.565	412.75'	4.88'	417.63'	UTILITY QUALITY "A"
106	12" SAN	14044163.280	2454980.991	412.62'	3.99'	416.61'	UTILITY QUALITY "A"
107	10" SAN	14044683.950	2454353.616	415.65'	3.63'	419.28'	UTILITY QUALITY "A"
108	8" SAN	14044685.280	2454352.426	413.15'	6.13'	419.28'	UTILITY QUALITY "A"

NOTES

* TH #81 - RECORDS SHOW A 24" WATER MAIN BUT WE EXPOSED A 36" STEEL PIPE WHICH WE BELIEVE COULD BE A CASING FOR THE WATER MAIN.

TH #82 - UNABLE TO EXPOSE UTILITY DUE TO COLLAPSING GRAVEL. BY UTILIZING THE AIR LANCE WE WERE ABLE TO FEEL THE TOP OF PIPE. UTILITY QUALITY LEVEL "B"

* TH #87 - WE EXPOSED A 36" STEEL PIPE WHICH WE BELIEVE TO BE THE CASING FOR THE 2- IDOT WELL DISCHARGE PIPES.

ABBREVIATIONS

BT = TELEPHONE
 FM = FORCE MAIN
 FOC = FIBER OPTIC
 G = GAS MAIN
 SAN = SANITARY
 UNK = UNKNOWN
 W = WATER
 OTHER = RETIRED GAS

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.



TBE GROUP, INC.
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL
 PLANNING • UTILITY ENGINEERING/LOCATING

Checked By: _____
 Date: _____

TBE Job No. IL09500601.602.603.604
 607.608.609

FILE NAME #	USER NAME #	DESIGNED EG	REVISED
#FILEL#		DRAWN KLC	REVISED
	PLOT SCALE = 1" = 50'	CHECKED JB	REVISED
	PLOT DATE = #DATE#	DATE 9/15/09	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

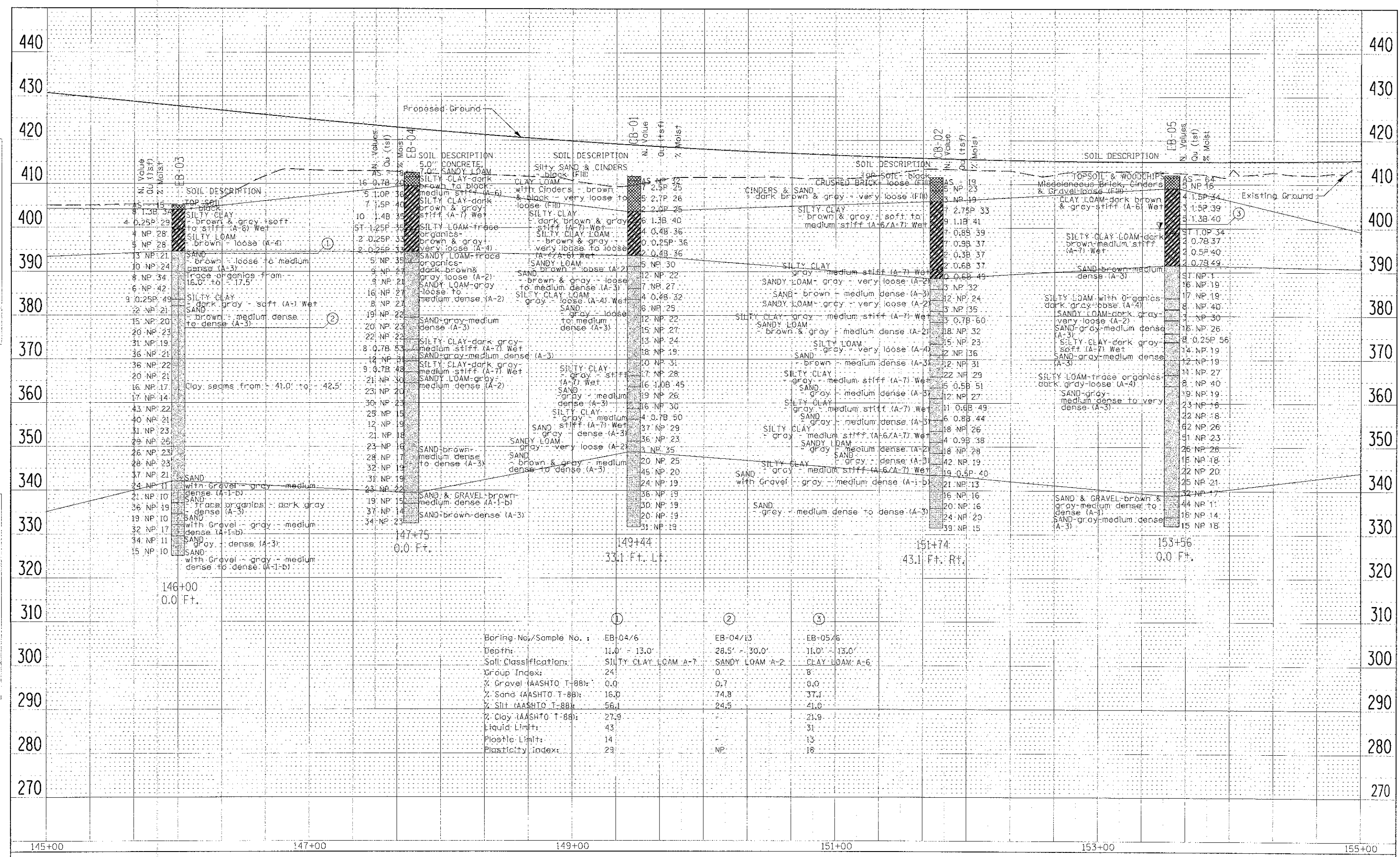
Mississippi River Bridge Project

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	St. Clair	294	101
PTB NO. 147-038				
FED. ROAD DIST. NO. ILLINOIS Job No. D-98-061-08				

SCALE: SHEET NO. STA. TO STA.

DATE: _____ BY: _____
 CHECKED: _____
 PLAN NO. _____
 DATE: _____

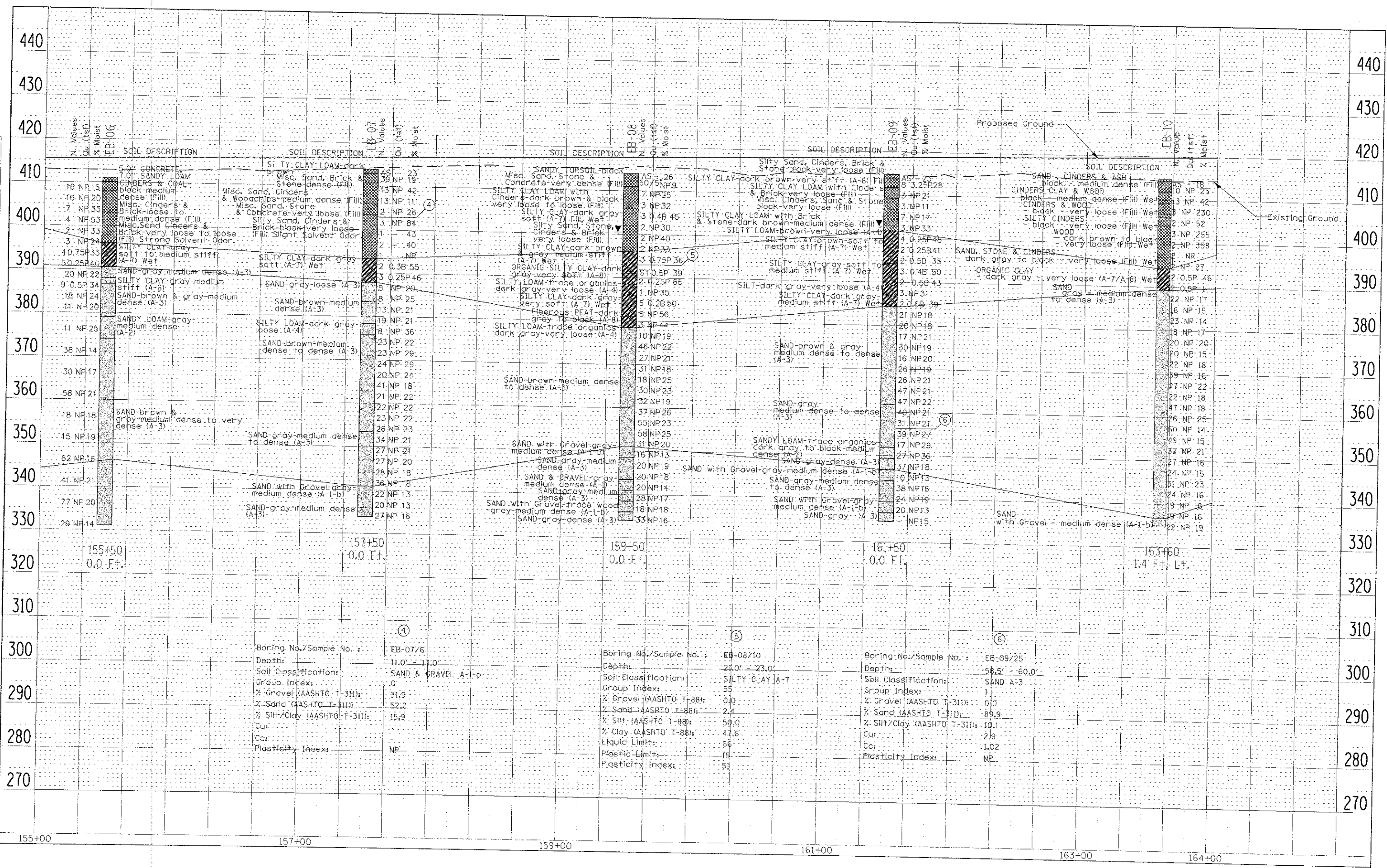
DATE: _____ BY: _____
 CHECKED: _____
 PROFILE NO. _____
 DATE: _____



Boring No./Sample No.	EB-04/6	EB-04/13	EB-05/6
Depth:	11.0' - 13.0'	28.5' - 30.0'	11.0' - 13.0'
Soil Classification:	SILTY CLAY LOAM A-7	SANDY LOAM A-2	CLAY LOAM A-6
Group Index:	24	0	8
% Gravel (AASHTO T-88):	0.0	0.7	0.0
% Sand (AASHTO T-88):	16.0	74.8	37.1
% Silt (AASHTO T-88):	56.1	24.5	41.0
% Clay (AASHTO T-88):	27.9	-	21.9
Liquid Limit:	43	-	31
Plastic Limit:	14	-	13
Plasticity Index:	29	NP	18

DATE: _____
 BY: _____
 CHECKED: _____
 DATE: _____
 NO. _____

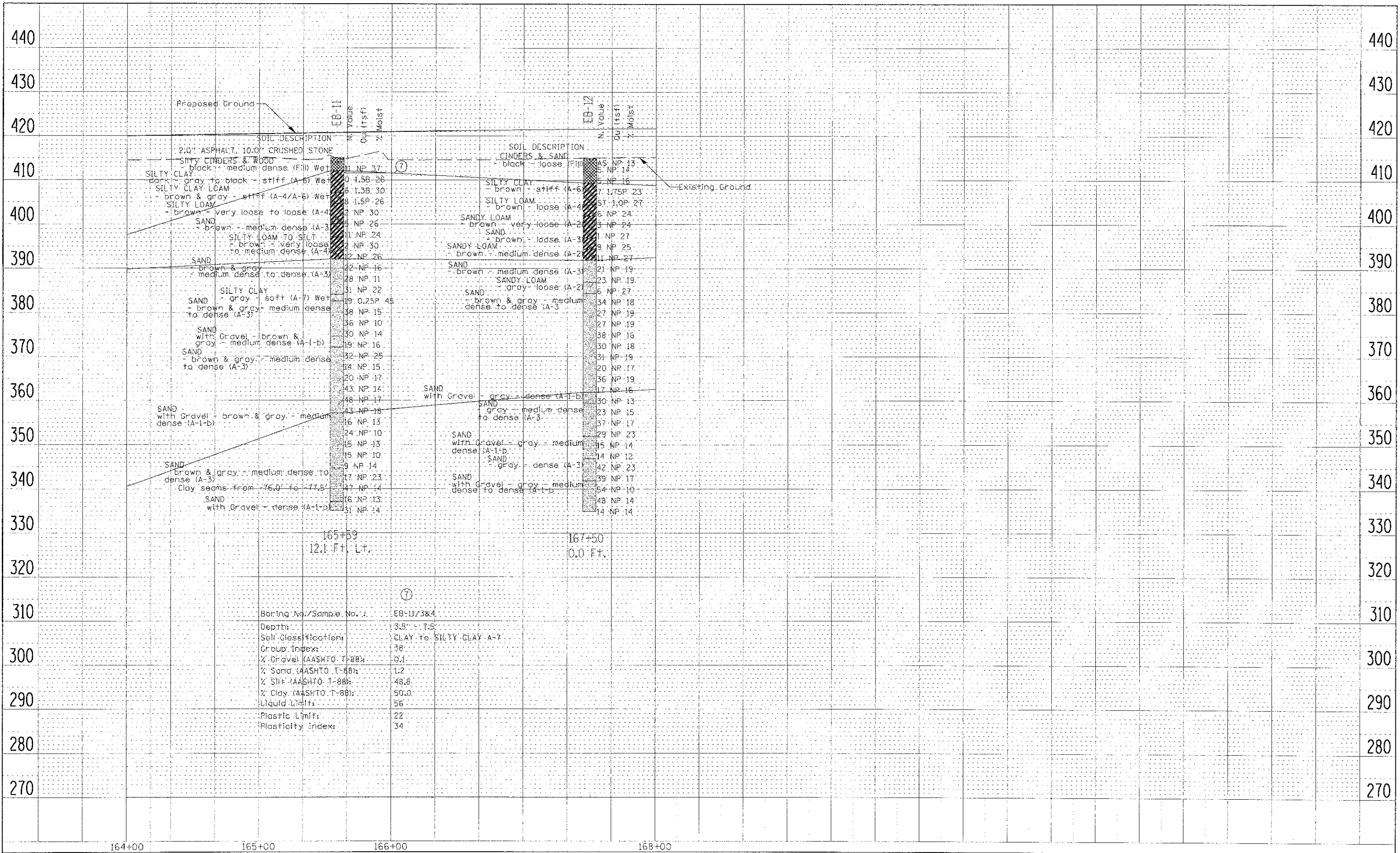
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 BY: _____
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 DATE: _____
 NO. _____

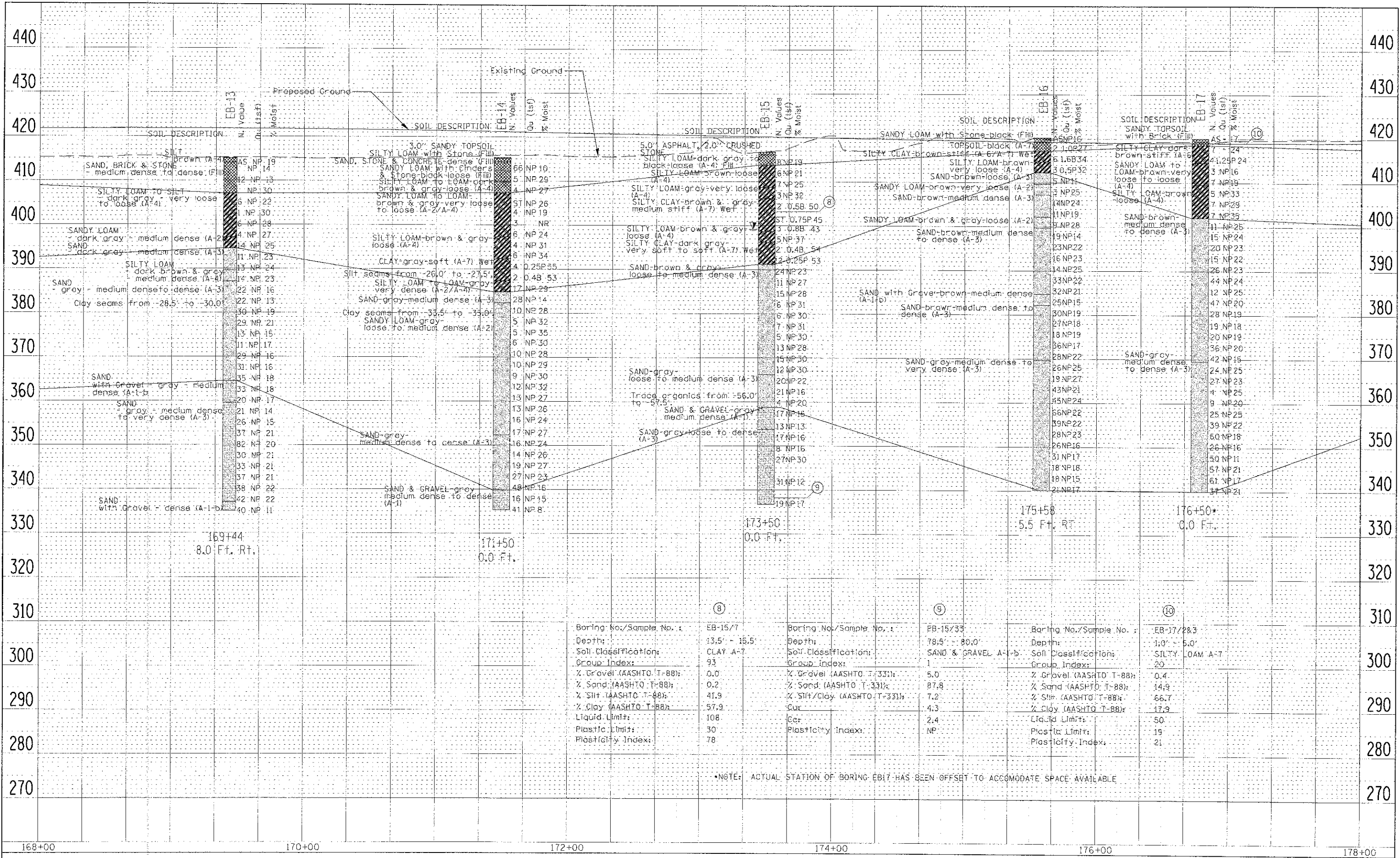


FILE NAME: _____	USER NAME: euser	DESIGNED: TSR	REVISED: SMS 5/27/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL PROFILE	F.A.I. RTE: 70	SECTION: 82-1R	COUNTY: ST. CLAIR	TOTAL SHEETS: 294	SHEET NO.: 105
SCALE: _____	PLT SCALE: ecm:fe	DRAWN: TSR	REVISED: _____			SHEET NO. 3 OF 7 SHEETS	STA. 155+00 TO STA. 164+00	CONTRACT NO. 76C43		ILLINOIS FED. AID PROJECT
DATE: 06/01/2009	PLT DATE: 06/01/09	CHECKED: MGM	REVISED: _____							

DATE	
BY	
REVISION	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

DATE	
BY	
REVISION	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	





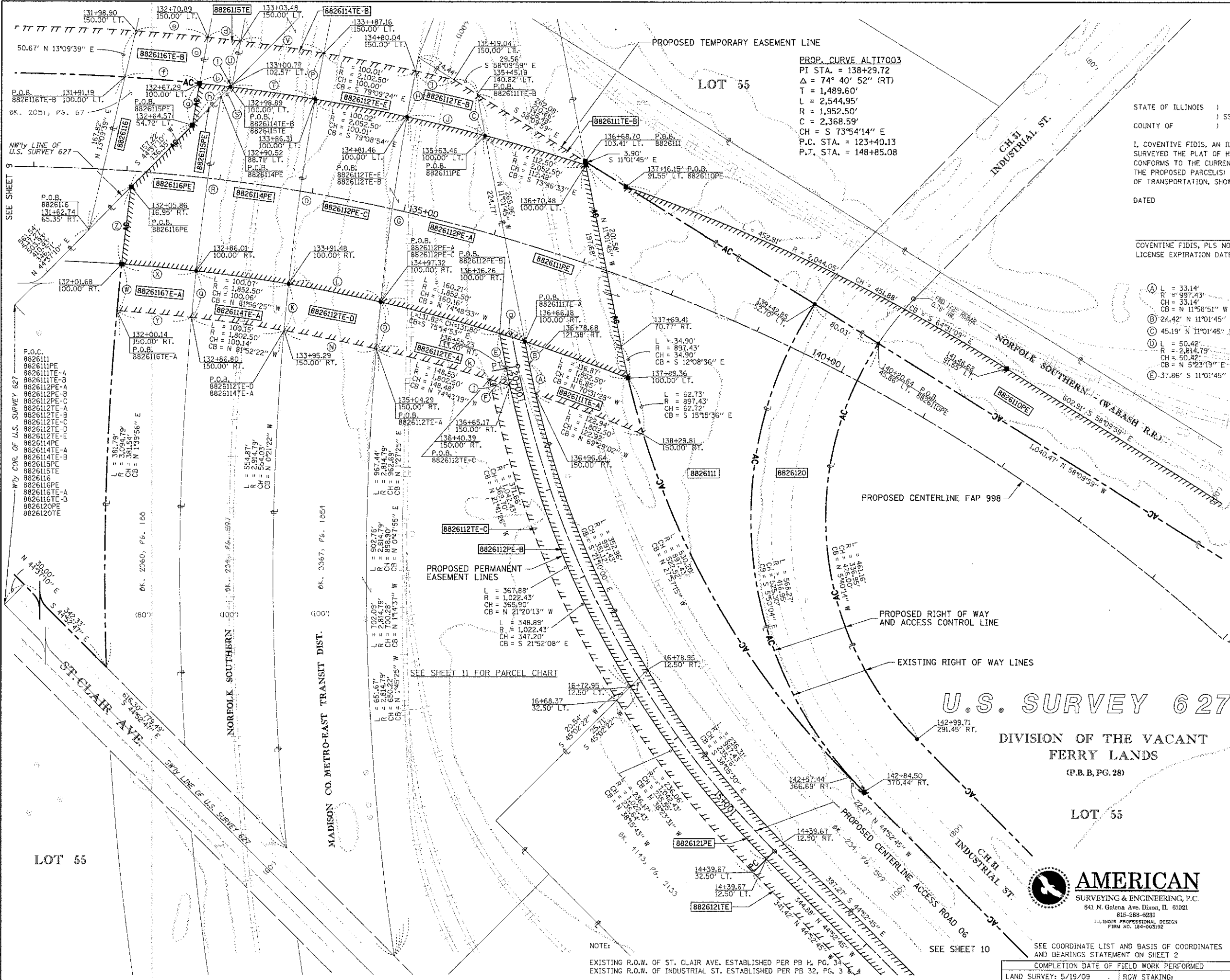
PLAN
 SURVEYED BY: []
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 CHECKED BY: []
 DATE: []

PROFILE
 SURVEYED BY: []
 DRAWN BY: []
 CHECKED BY: []
 DATE: []

Boring No./Sample No. :	EB-15/7	Boring No./Sample No. :	EB-15/33	Boring No./Sample No. :	EB-17/2&3
Depth:	13.5' - 15.5'	Depth:	78.5' - 80.0'	Depth:	1.0' - 5.0'
Soil Classification:	CLAY A-7	Soil Classification:	SAND & GRAVEL A-1-b	Soil Classification:	SILTY LOAM A-7
Group Index:	93	Group Index:	1	Group Index:	20
% Gravel (AASHTO T-88):	0.0	% Gravel (AASHTO T-88):	5.0	% Gravel (AASHTO T-88):	0.4
% Sand (AASHTO T-88):	0.2	% Sand (AASHTO T-331):	87.8	% Sand (AASHTO T-88):	14.9
% Silt (AASHTO T-88):	41.9	% Silt/Clay (AASHTO T-331):	7.2	% Silt (AASHTO T-88):	66.7
% Clay (AASHTO T-88):	57.9	Cur:	4.3	% Clay (AASHTO T-88):	17.9
Liquid Limit:	108	C _u :	2.4	Liquid Limit:	50
Plastic Limit:	30	Plasticity Index:	NP	Plastic Limit:	19
Plasticity Index:	78			Plasticity Index:	21

*NOTE: ACTUAL STATION OF BORING EB17 HAS BEEN OFFSET TO ACCOMMODATE SPACE AVAILABLE

PART OF U.S. SURVEY 627, SECTION 1, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS



STATE OF ILLINOIS)
COUNTY OF)

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



- (A) L = 33.14'
R = 997.43'
CH = 33.14'
CB = N 11°58'51" W
- (B) 24.42' N 11°01'45" W
- (C) L = 50.42'
R = 2,814.79'
CH = 50.42'
CB = N 5°23'19" E
- (D) 37.86' S 11°01'45" E
- (E) L = 18.99'
R = 1,022.43'
CH = 18.99'
CB = N 11°33'40" E
- (F) L = 200.67'
R = 2,814.79'
CH = 200.63'
CB = N 7°56'39" E
- (G) L = 50.02'
R = 2,814.79'
CH = 50.02'
CB = N 10°29'45" E
- (H) L = 42.00'
R = 2,102.50'
CH = 42.00'
CB = S 77°13'18" E
- (I) L = 86.20'
R = 2,052.50'
CH = 86.20'
CB = N 76°32'57" W
- (J) L = 50.13'
R = 2,914.79'
CH = 50.13'
CB = N 5°35'25" E
- (K) L = 100.42'
R = 1,802.50'
CH = 100.41'
CB = N 78°50'23" W
- (L) L = 100.63'
R = 1,802.50'
CH = 100.63'
CB = N 78°40'54" W
- (M) L = 200.11'
R = 2,914.79'
CH = 200.07'
CB = N 8°02'58" E
- (N) L = 50.01'
R = 3,014.79'
CH = 50.01'
CB = N 5°40'24" E
- (O) L = 188.80'
R = 3,014.79'
CH = 188.76'
CB = N 7°56'33" E
- (P) L = 14.30' N 44°37'10" E
- (Q) L = 26.38'
R = 1,802.50'
CH = 26.38'
CB = S 72°46'14" E
- (R) L = 91.90'
R = 2,052.50'
CH = 91.89'
CB = S 81°49'38" E
- (S) L = 47.52'
R = 3,004.79'
CH = 47.52'
CB = N 10°27'50" E
- (T) L = 90.11'
R = 2,102.50'
CH = 90.10'
CB = S 81°44'50" E
- (U) L = 50.02'
R = 3,094.79'
CH = 50.02'
CB = N 10°29'45" E
- (V) L = 80.01'
R = 1,802.50'
CH = 80.01'
CB = N 84°43'30" W
- (W) L = 80.01'
R = 3,094.79'
CH = 80.01'
CB = N 84°43'30" W
- (X) L = 80.01'
R = 3,094.79'
CH = 80.01'
CB = N 84°43'30" W
- (Y) L = 80.01'
R = 3,094.79'
CH = 80.01'
CB = N 84°43'30" W
- (Z) L = 80.01'
R = 3,094.79'
CH = 80.01'
CB = N 84°43'30" W
- (AA) L = 33.22'
R = 1,039.79'
CH = 33.22'
CB = N 8°34'25" E
- (AB) L = 50.15'
R = 3,039.79'
CH = 50.15'
CB = N 10°23'38" E
- (AC) L = 35.10'
R = 2,102.50'
CH = 35.10'
CB = S 83°27'12" E
- (AD) L = 77.51'
R = 2,102.50'
CH = 77.51'
CB = S 84°59'16" E
- (AE) L = 79.99'
R = 2,052.50'
CH = 79.99'
CB = N 85°09'13" W
- (AF) L = 26.38'
R = 1,802.50'
CH = 26.38'
CB = S 72°46'14" E
- (AG) L = 3.25' S 44°37'10" W
- (AH) L = 22.88'
R = 1,802.50'
CH = 22.88'
CB = S 72°43'30" E
- (AI) L = 125.65'
R = 1,802.50'
CH = 125.62'
CB = S 75°05'08" E

U.S. SURVEY 627

DIVISION OF THE VACANT FERRY LANDS
(P.B.B, PG. 28)

LOT 55

AMERICAN
SURVEYING & ENGINEERING, P.C.
841 N. Galena Ave. Dixon, IL 61021
815-288-6281
ILLINOIS PROFESSIONAL DESIGN
FIRM NO. 184-063192

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998
SECTION 82-2-1HVB
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 131+00 TO STATION 145+00

SCALE: 1" = 50'

SHEET 10 OF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	ST. CLAIR	294	110

CONTRACT NO. 76C43

FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT

PART OF U.S. SURVEY 627, T2N, 10W, OF THE 4TH PM, ST. CLAIR COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

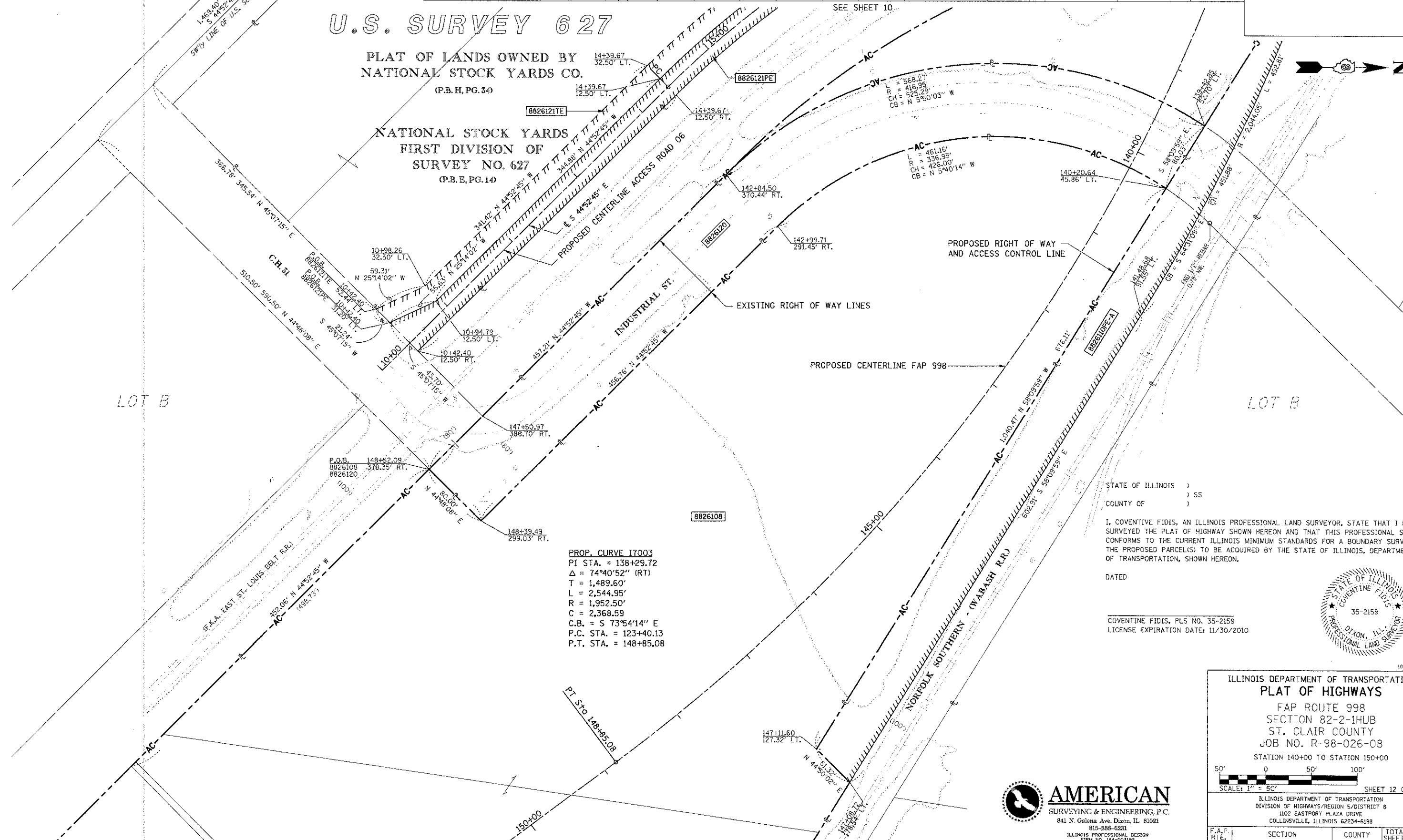
W/4 COR. OF U.S. SURVEY 627
P.O.C.
8826108
8826120
8826121PE
8826121TE

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	GROSS		PREVIOUSLY DEDICATED		NET		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SO. FT.	ACRES	SO. FT.	ACRES	SO. FT.		PE = PERMANENT ACRES	TE = TEMPORARY SO. FT.		
8826108	NORFOLK SOUTHERN RAILWAY COMPANY, FORMERLY THE NORFOLK & WESTERN RAILWAY COMPANY WHICH ACQUIRED TITLE AS THE WABASH RAILWAY COMPANY TITLE REPORT NO. SC-5589	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PE 0.2285 ACRES TE 0.9501 SO. FT.	PE 3.9521 ACRES TE 15,231 SO. FT.	BRIDGE CONSTRUCTION AND MAINTAINANCE	01-010-011-002
8826120	ST. LOUIS NATIONAL STOCKYARDS, A CORPORATION SC-6106	1.7846	1.7846	77,736	1.7846	77,736	0.0000	0	0.0000	N/A	N/A	N/A	N/A

U.S. SURVEY 627

PLAT OF LANDS OWNED BY NATIONAL STOCK YARDS CO. (P.B.H, PG. 34)

NATIONAL STOCK YARDS FIRST DIVISION OF SURVEY NO. 627 (P.B.E, PG. 14)



PROP. CURVE I7003
PI STA. = 138+29.72
 $\Delta = 74^\circ 40' 52''$ (RT)
T = 1,489.60'
L = 2,544.95'
R = 1,952.50'
C = 2,368.59
C.B. = S $73^\circ 54' 14''$ E
P.C. STA. = 123+40.13
P.T. STA. = 148+85.08

STATE OF ILLINOIS)
COUNTY OF) SS
I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998
SECTION 82-2-1HUB
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 140+00 TO STATION 150+00

SCALE: 1" = 50'

SHEET 12 OF

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 6
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	ST. CLAIR	294	112

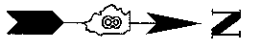
CONTRACT NO. 76C43

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

AMERICAN
SURVEYING & ENGINEERING, P.C.
841 N. Galena Ave. Dixon, IL 61021
815-988-6281
ILLINOIS PROFESSIONAL DESIGN
FIRM NO. 184-001982

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

SPACE RESERVED FOR RECORDING OFFICER



U.S. SURVEY 627

PLAT OF LANDS OWNED BY NATIONAL STOCK YARDS CO. (P.B.H, PG. 34)

NATIONAL STOCK YARDS FIRST DIVISION OF SURVEY NO. 627 (P.B.E, PG. 14)

NOTE A
01-01-0-300-050
01-01-0-300-034
01-01-0-300-033
01-01-0-300-028
01-01-0-300-048
01-01-0-300-047

SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING	AREA TO BE DEDICATED/ FEE SIMPLE		REMAINDER	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.			
8826107	PHILIP EDWARD THOMAS TITLE REPORT NO. SC-5576	6.5555	6.5555	285,557	0.0000	01-01-0-300-022	
8826108	ST. LOUIS NATIONAL STOCKYARDS COMPANY (formerly National Stockyards Company) TITLE REPORT NO. SC-5569 THRU SC-5574	13.1287	13.1287	573,887	0.0000	SEE NOTE A	
8826109	P & G MOTOR EXPRESS, INC. TITLE REPORT NO. SC-6033	0.0591	0.0597	2,601	0.0000	01-12-0-201-020(p1)	

AMERICAN
SURVEYING & ENGINEERING, P.C.
841 N. Galena Ave. Dixon, IL 61021
815-288-6221
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-003192 101046/97258

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998
SECTION 82-1K
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 160+00 TO STATION 150+00

SCALE: 1" = 100'

SHEET 13 OF

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	ST. CLAIR	294	113

CONTRACT NO. 76C43

STATE OF ILLINOIS)
) SS
COUNTY OF)

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



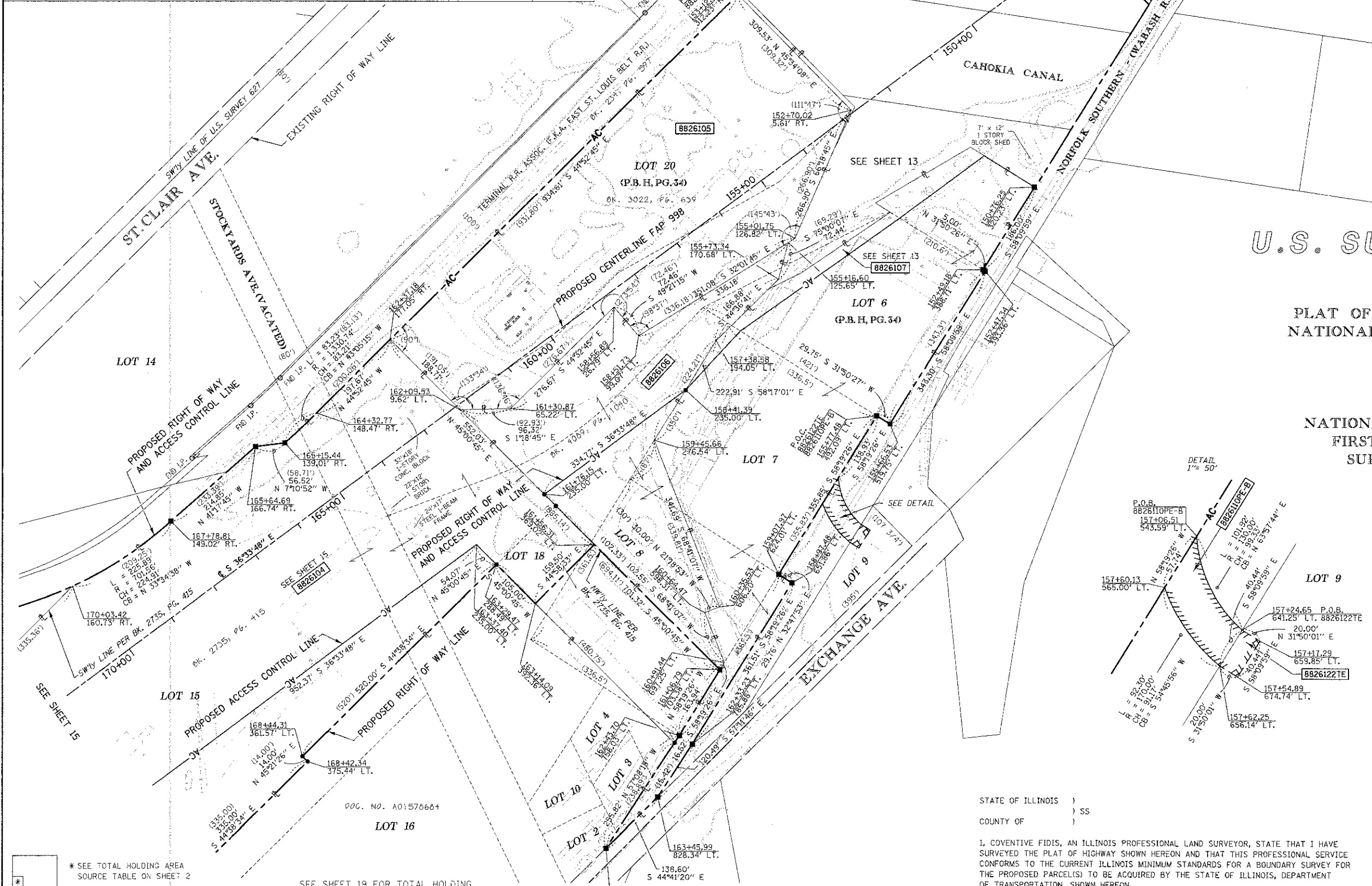
COMPLETION DATE OF FIELD WORK PERFORMED		CONTRACT NO. 76C43	
LAND SURVEY:	ROW STAKING:	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

PART OF U.S. SURVEY 627, T2N, 10W, OF THE 4TH PM, ST. CLAIR COUNTY, ILLINOIS

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			PE = PERMANENT ACRES	TE = TEMPORARY SQ. FT.		
8826122	ST. LOUIS NATIONAL STOCKYARDS TITLE REPORT NO. SC-5458	N/A	TE 0.0186	TE 809	ACCESS ROAD CONSTRUCTION	

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

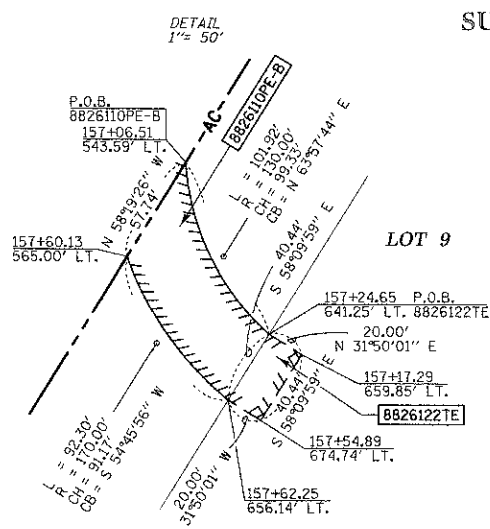
SPACE RESERVED FOR RECORDING OFFICER



U.S. SURVEY 627

PLAT OF LANDS OWNED BY NATIONAL STOCK YARDS CO. (P.B.H. PG. 34)

NATIONAL STOCK YARDS FIRST DIVISION OF SURVEY NO. 627 (P.B.E. PG. 14)



* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

SEE SHEET 19 FOR TOTAL HOLDING

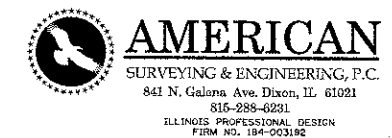
PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.			
8826104	JACK OATES, INC., A MISSOURI CORPORATION TITLE REPORT NO. SC-5458	15.4012	14.0953	613,993	1.3059	01-12.0-201-023 01-12.0-201-017 01-12.0-201-014	
8826105	J.P., INC. TITLE REPORT NO. SC-5538	6.8895	6.8895	300,105	0.0000	01-12.0-104-003	
8826106	BOBBY THOMAS & PHILIP THOMAS AS JOINT TENANTS TITLE REPORT NO. SC-5589	3.5739	3.5739	155,688	0.0000	01-12.0-201-020	

STATE OF ILLINOIS)
COUNTY OF) SS

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED

COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998
SECTION 82-1K
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 164+00 TO STATION 150+00

SCALE: 1" = 100'

SHEET 14 OF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	82-1R	ST. CLAIR	294	114

COMPLETION DATE OF FIELD WORK PERFORMED

LAND SURVEY:	ROW STAKING:
--------------	--------------

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PART OF U.S. SURVEY 627, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

SEE COORDINATE LIST AND BASIS OF COORDINATES AND BEARINGS STATEMENT ON SHEET 2

SEE SHEET 14

EXISTING RIGHT OF WAY LINE

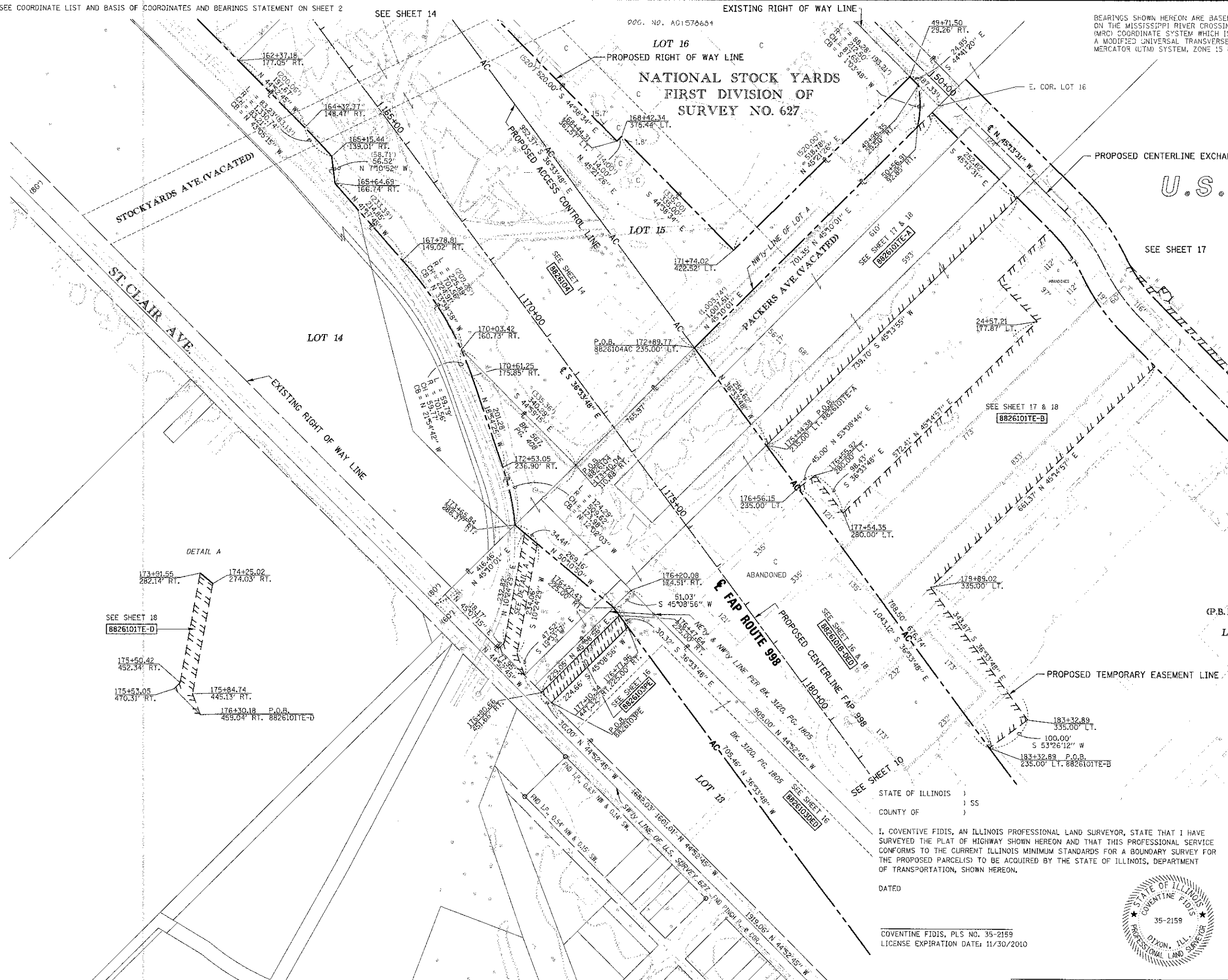
BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.



SPACE RESERVED FOR RECORDING OFFICER

NATIONAL STOCK YARDS
FIRST DIVISION OF
SURVEY NO. 627

U.S. SURVEY 627

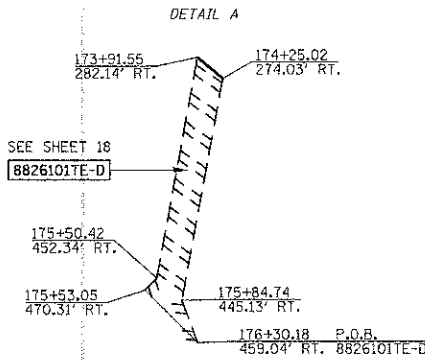


STOCKYARDS AVE. (VACATED)

ST. CLAIR AVE.

PACKERS AVE. (VACATED)

PROPOSED CENTERLINE EXCHANGE AVE.



SEE SHEET 18
8826101TE-D

175+50.42
452.34' RT.

175+53.05
470.31' RT.

174+84.74
445.13' RT.

176+30.18 P.O.B.
459.04' RT. 8826101TE-D

SEE SHEET 17

SEE SHEET 17 & 18
8826101TE-B

SEE SHEET 16 & 18
8826101TE-C

SEE SHEET 16
8826101TE-E

SEE SHEET 16
8826101TE-F

SEE SHEET 16
8826101TE-G

SEE SHEET 16
8826101TE-H

SEE SHEET 16
8826101TE-I

SEE SHEET 16
8826101TE-J

SEE SHEET 16
8826101TE-K

SEE SHEET 16
8826101TE-L

SEE SHEET 16
8826101TE-M

SEE SHEET 16
8826101TE-N

SEE SHEET 16
8826101TE-O

SEE SHEET 16
8826101TE-P

SEE SHEET 16
8826101TE-Q

SEE SHEET 16
8826101TE-R

SEE SHEET 16
8826101TE-S

SEE SHEET 16
8826101TE-T

SEE SHEET 16
8826101TE-U

SEE SHEET 16
8826101TE-V

SEE SHEET 16
8826101TE-W

NOTE:

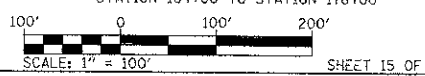
EXISTING R.O.W. OF ST. CLAIR AVE. ESTABLISHED PER BK OF DEEDS Y-5, PG. 97 & PB H, PG. 34



AMERICAN
SURVEYING & ENGINEERING, P.C.
841 N. Galena Ave. Dixon, IL 61021
815-288-6231
ILLINOIS PROFESSIONAL DESIGN
FIRM NO. 194-003192

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP ROUTE 998
SECTION 82-1K
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 164+00 TO STATION 178+00



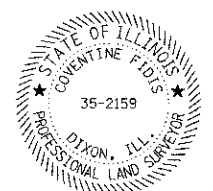
SCALE: 1" = 100'
SHEET 15 OF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	ST. CLAIR	294	115
COMPLETION DATE OF FIELD WORK PERFORMED			CONTRACT NO. 76C43	
LAND SURVEY:		ROW STAKING:		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS)
COUNTY OF) SS
I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED

COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



SEE COORDINATE LIST AND BASIS OF COORDINATES AND BEARINGS STATEMENT ON SHEET 2

SEE SHEET 15

SEE SHEET 18



SPACE RESERVED FOR RECORDING OFFICER

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

U.S. SURVEY 627

LOT A
NATIONAL STOCK YARDS
FIRST DIVISION OF
SURVEY NO. 627
(P.B.E. PG. 14)

SEE SHEET 20 FOR TOTAL HOLDING

STOCKYARDS DIVISION
P.B. No. 8 & 2000
(P.B. 99, PG. 33)

PROP. CURVE I7004
PI STA. = 186+31.10
Δ = 7° 39' 48" (LT)
T = 298.21'
L = 595.53'
R = 4,452.50'
C = 595.08'
C.B. = S 40°23'42" E
P.C. STA = 183+32.89
P.T. STA = 189+28.42

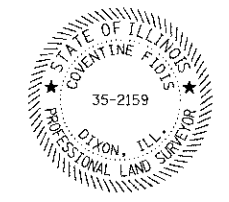
NOTE:
EXISTING R.O.W. OF ST. CLAIR AVE. ESTABLISHED PER BK OF DEEDS Y-5, PG. 97 & PB H, PG. 34

AMERICAN
SURVEYING & ENGINEERING, P.C.
841 N. Galena Ave. Dixon, IL 61021
815-268-6231
ILLINOIS PROFESSIONAL DESIGN
FIRM NO. 184-003182

STATE OF ILLINOIS)
COUNTY OF) SS

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998
SECTION 82-1K
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 178+00 TO STATION 193+00

SCALE: 1" = 100'

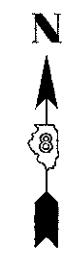
SHEET 16 OF

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	ST. CLAIR	294	116
COMPLETION DATE OF FIELD WORK PERFORMED			CONTRACT NO. 76C43	
LAND SURVEY:		ROW STAKING:		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	AREA TO BE DEDICATED ACRES	REMAINDER SO. FT.	REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						PE = PERMANENT TE = TEMPORARY	EASEMENT PURPOSE		
8826103DED	NATIONAL CITY LAND COMPANY, LLC A NEVADA LIMITED LIABILITY CO. TITLE REPORT NO. SC-5594	6.5944	2.7855	121,337	6.5944	PE 0.1562	PE 6.806	DRAINAGE MAINTAINENCE	01-12.0-202-002

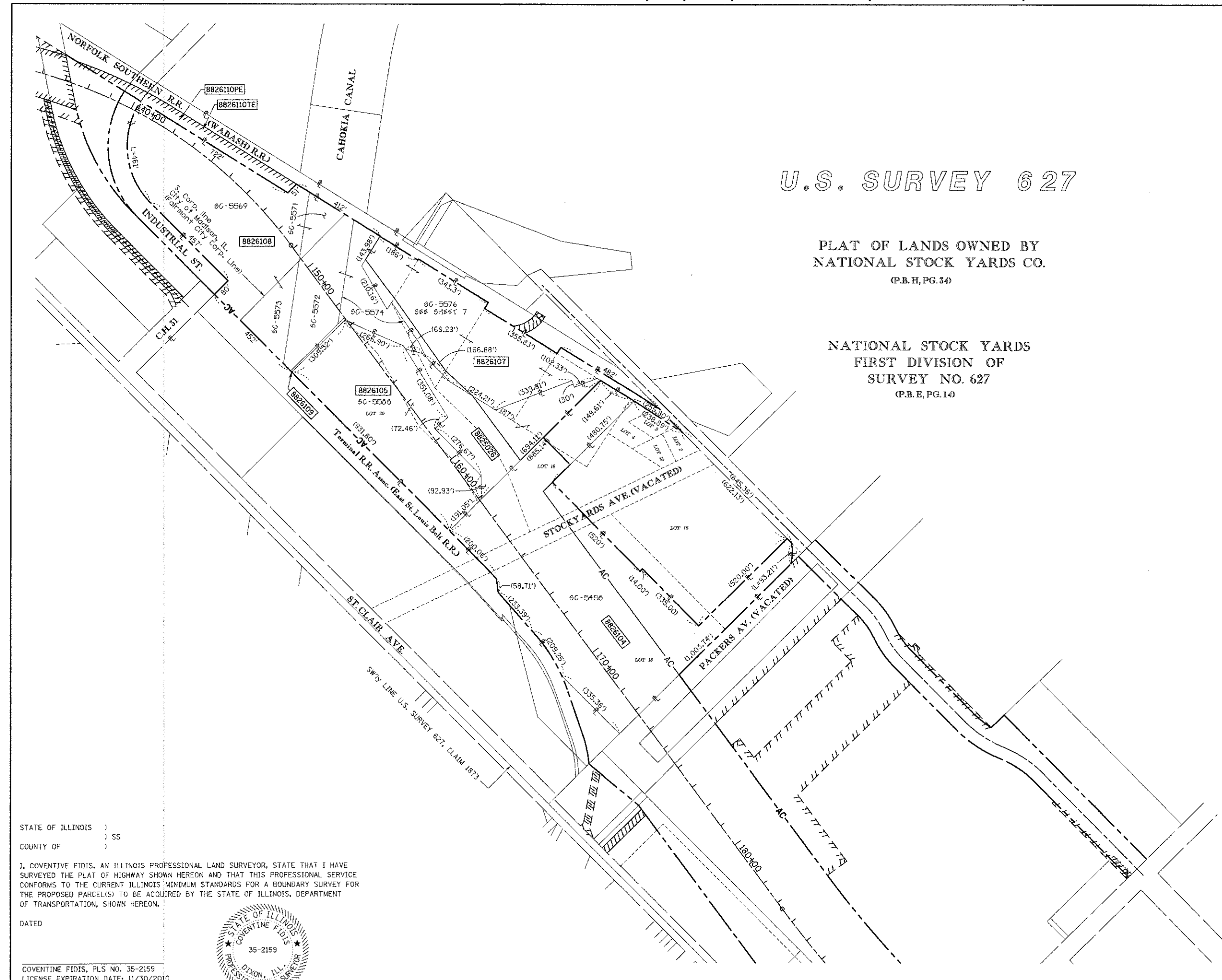


SPACE RESERVED FOR RECORDING OFFICER

U.S. SURVEY 627

PLAT OF LANDS OWNED BY
NATIONAL STOCK YARDS CO.
(P.B.H, PG. 34)

NATIONAL STOCK YARDS
FIRST DIVISION OF
SURVEY NO. 627
(P.B.E, PG. 14)



STATE OF ILLINOIS)
) SS
COUNTY OF)

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998 (IL 3)
SECTION 82-1K
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 140+00 TO STATION 175+00

200' 0 200' 400'
SCALE: 1" = 200' SHEET 19 OF

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

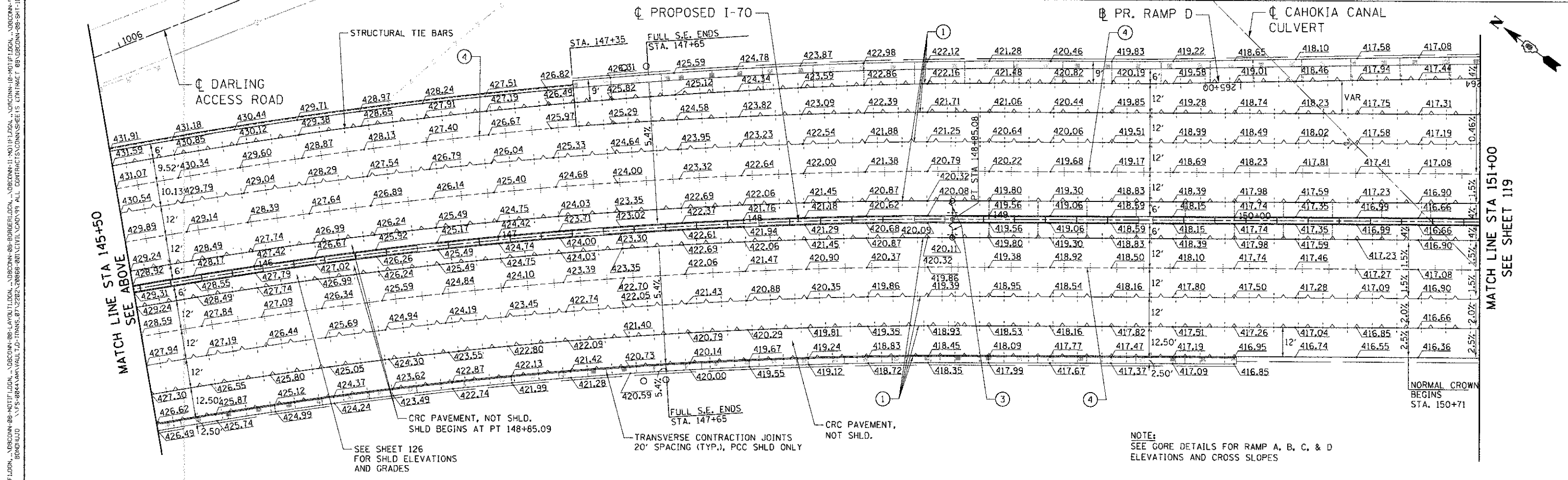
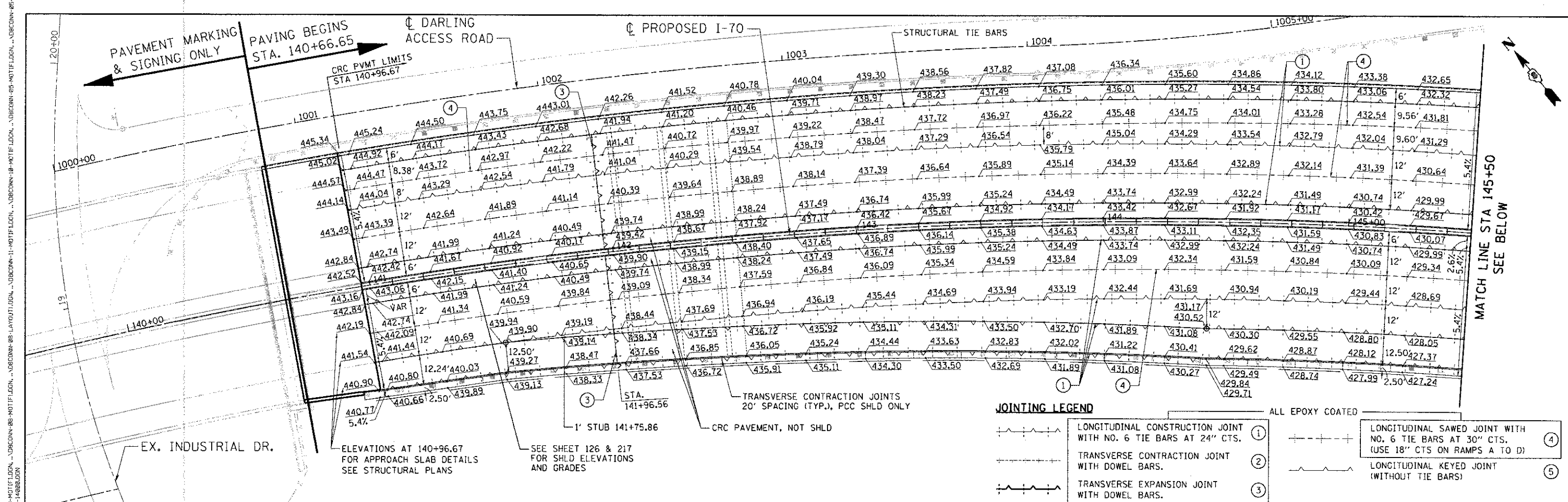
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	82-1R	ST. CLAIR	294	117

COMPLETION DATE OF FIELD WORK PERFORMED _____

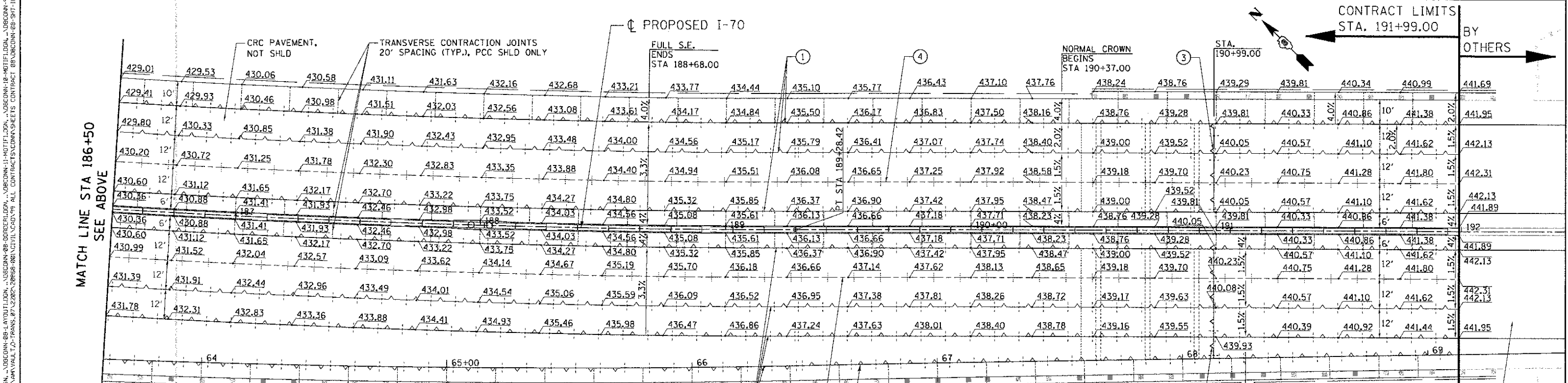
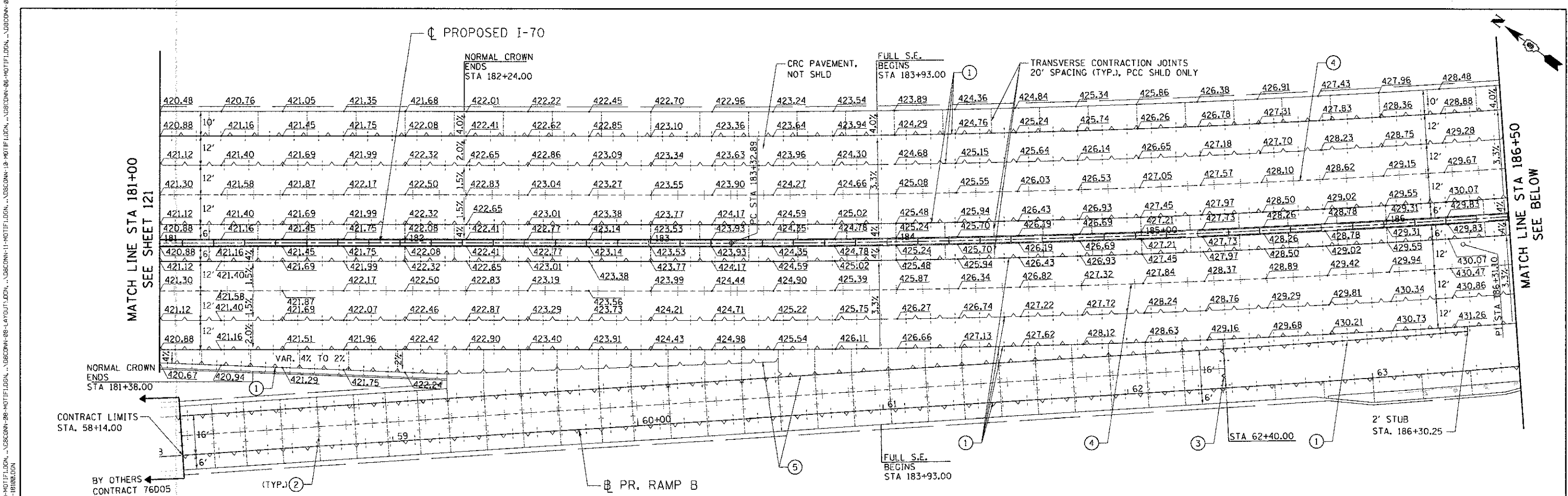
LAND SURVEY: _____ ROW STAKING: _____

FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____

CONTRACT NO. 76C43



FILE NAME =	USER NAME = #USERS	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION	I-70 PAVEMENT ELEVATION PLANS STA. 140 + 96.67 TO STA. 151 + 00		F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 118	
FILE#	PLOT SCALE = #SCALE#	DRAWN - MDN	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 5 SHEETS	STA. TO STA.	CONTRACT NO. 76C43				
	PLOT DATE = #DATE#	CHECKED - ACL	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DATE - 06/29/12	REVISED -									



JOINTING LEGEND

	LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS. (1)
	TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS. (2)
	TRANSVERSE EXPANSION JOINT WITH DOWEL BARS. (3)
	LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 30" CTS. (USE 18" CTS ON RAMPS A TO D) (4)
	LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS) (5)

NOTE:
SEE GORE DETAILS FOR RAMP A, B, C, & D ELEVATIONS AND CROSS SLOPES

APPROACH SLAB BY OTHERS (CONTRACT 76C50)

EASTBOUND I-70

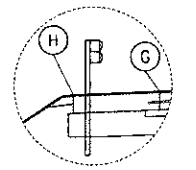
STATION	TOP OF WALL ELEV.	ELEV. A	SHOULDER		PGL ELEV. C	LANE 1		LANE 2		LANE 3		FUTURE LANE 4		SHOULDER			COMMENTS				
			WIDTH (FT) A TO C	SLOPE A TO C		WIDTH (FT) C TO D	SLOPE C TO D	WIDTH (FT) D TO E	SLOPE D TO E	WIDTH (FT) E TO F	SLOPE E TO F	WIDTH (FT) F TO G	SLOPE F TO G	ELEV. G	WIDTH (FT) G TO H	SLOPE G TO H		ELEV. H			
149+00.00	423.06	419.56	6.00	-4.00%	419.80	12.00	-3.52%	419.38	12.00	-3.52%	418.95	12.00	-3.52%	418.53	12.50	-3.52%	418.09	2.50	-4.00%	417.99	
149+25.00	422.56	419.06	6.00	-4.00%	419.30	12.00	-3.17%	418.92	12.00	-3.17%	418.54	12.00	-3.17%	418.16	12.50	-3.17%	417.77	2.50	-4.00%	417.67	
149+50.00	422.09	418.59	6.00	-4.00%	418.83	12.00	-2.82%	418.50	12.00	-2.82%	418.16	12.00	-2.82%	417.82	12.50	-2.82%	417.47	2.50	-4.00%	417.37	
149+75.00	421.69	418.19	6.00	-4.00%	418.43	12.00	-2.50%	418.13	12.00	-2.50%	417.83	12.00	-2.50%	417.53	12.50	-2.50%	417.22	2.50	-4.00%	417.12	
149+75.00	421.65	418.15	6.00	-4.00%	418.39	12.00	-2.46%	418.10	12.00	-2.46%	417.80	12.00	-2.46%	417.51	12.50	-2.50%	417.19	2.50	-4.00%	417.09	
150+00.00	421.24	417.74	6.00	-4.00%	417.98	12.00	-2.00%	417.74	12.00	-2.00%	417.50	12.00	-2.00%	417.26	12.50	-2.50%	416.95	2.50	-4.00%	416.85	CURB ENDS AT STA. 150+01.01
150+18.00	420.96	417.46	6.00	-4.00%	417.70	12.00	-1.50%	417.52	12.00	-1.50%	417.34	12.00	-2.00%	417.10	12.00	-2.50%	416.80				
150+25.00	420.85	417.35	6.00	-4.00%	417.59	12.00	-1.10%	417.46	12.00	-1.50%	417.28	12.00	-2.00%	417.04	12.00	-2.50%	416.74				
150+44.50	420.58	417.08	6.00	-4.00%	417.32	12.00	0.00%	417.32	12.00	-1.50%	417.14	12.00	-2.00%	416.90	12.00	-2.50%	416.60				
150+50.00	420.49	416.99	6.00	-4.00%	417.23	12.00	0.31%	417.27	12.00	-1.50%	417.09	12.00	-2.00%	416.85	12.00	-2.50%	416.55				
150+71.00	420.21	416.71	6.00	-4.00%	416.95	12.00	1.50%	417.13	12.00	-1.50%	416.95	12.00	-2.00%	416.71	12.00	-2.50%	416.41				NORMAL CROWN BEGINS
150+75.00	420.16	416.66	6.00	-4.00%	416.90	12.00	1.50%	417.08	12.00	-1.50%	416.90	12.00	-2.00%	416.66	12.00	-2.50%	416.36				
151+00.00	419.86	416.36	6.00	-4.00%	416.60	12.00	1.50%	416.78	12.00	-1.50%	416.60	12.00	-2.00%	416.36	12.00	-2.50%	416.06				
151+25.00	419.58	416.08	6.00	-4.00%	416.32	12.00	1.50%	416.50	12.00	-1.50%	416.32	12.00	-2.00%	416.08	12.00	-2.50%	415.78				
151+50.00	419.33	415.83	6.00	-4.00%	416.07	12.00	1.50%	416.25	12.00	-1.50%	416.07	12.00	-2.00%	415.83	12.00	-2.50%	415.53				
151+75.00	419.11	415.61	6.00	-4.00%	415.85	12.00	1.50%	416.03	12.00	-1.50%	415.85	12.00	-2.00%	415.61	12.00	-2.50%	415.31				
152+00.00	418.92	415.42	6.00	-4.00%	415.66	12.00	1.50%	415.84	12.00	-1.50%	415.66	12.00	-2.00%	415.42	12.00	-2.50%	415.12				
152+25.00	418.75	415.25	6.00	-4.00%	415.49	12.00	1.50%	415.67	12.00	-1.50%	415.49	12.00	-2.00%	415.25	12.00	-2.50%	414.95				
152+50.00	418.61	415.11	6.00	-4.00%	415.35	12.00	1.50%	415.53	12.00	-1.50%	415.35	12.00	-2.00%	415.11	12.00	-2.50%	414.81				
152+75.00	418.49	414.99	6.00	-4.00%	415.23	12.00	1.50%	415.41	12.00	-1.50%	415.23	12.00	-2.00%	414.99	12.00	-2.50%	414.69				
153+00.00	418.41	414.91	6.00	-4.00%	415.15	12.00	1.50%	415.33	12.00	-1.50%	415.15	12.00	-2.00%	414.91	12.00	-2.50%	414.61				
153+25.00	418.35	414.85	6.00	-4.00%	415.09	12.00	1.50%	415.27	12.00	-1.50%	415.09	12.00	-2.00%	414.85	12.00	-2.50%	414.55				
153+50.00	418.32	414.82	6.00	-4.00%	415.06	12.00	1.50%	415.24	12.00	-1.50%	415.06	12.00	-2.00%	414.82	12.00	-2.50%	414.52				
153+75.00	418.32	414.82	6.00	-4.00%	415.06	12.00	1.50%	415.24	12.00	-1.50%	415.06	12.00	-2.00%	414.82	12.00	-2.50%	414.52				
154+00.00	418.34	414.84	6.00	-4.00%	415.08	12.00	1.50%	415.26	12.00	-1.50%	415.08	12.00	-2.00%	414.84	12.00	-2.50%	414.54				
154+25.00	418.39	414.89	6.00	-4.00%	415.13	12.00	1.50%	415.31	12.00	-1.50%	415.13	12.00	-2.00%	414.89	12.00	-2.50%	414.59				
154+50.00	418.47	414.97	6.00	-4.00%	415.21	12.00	1.50%	415.39	12.00	-1.50%	415.21	12.00	-2.00%	414.97	12.00	-2.50%	414.67				
154+75.00	418.58	415.08	6.00	-4.00%	415.32	12.00	1.50%	415.50	12.00	-1.50%	415.32	12.00	-2.00%	415.08	12.00	-2.50%	414.78				
155+00.00	418.70	415.20	6.00	-4.00%	415.44	12.00	1.50%	415.62	12.00	-1.50%	415.44	12.00	-2.00%	415.20	12.00	-2.50%	414.90				
155+25.00	418.83	415.33	6.00	-4.00%	415.57	12.00	1.50%	415.75	12.00	-1.50%	415.57	12.00	-2.00%	415.33	12.00	-2.50%	415.03				
155+50.00	418.95	415.45	6.00	-4.00%	415.69	12.00	1.50%	415.87	12.00	-1.50%	415.69	12.00	-2.00%	415.45	12.00	-2.50%	415.15				
155+75.00	419.08	415.58	6.00	-4.00%	415.82	12.00	1.50%	416.00	12.00	-1.50%	415.82	12.00	-2.00%	415.58	12.00	-2.50%	415.28				
156+00.00	419.20	415.70	6.00	-4.00%	415.94	12.00	1.50%	416.12	12.00	-1.50%	415.94	12.00	-2.00%	415.70	12.00	-2.50%	415.40				
156+25.00	419.33	415.83	6.00	-4.00%	416.07	12.00	1.50%	416.25	12.00	-1.50%	416.07	12.00	-2.00%	415.83	12.00	-2.50%	415.53	3.58	-4.00%	415.38	
156+50.00	419.45	415.95	6.00	-4.00%	416.19	12.00	1.50%	416.37	12.00	-1.50%	416.19	12.00	-2.00%	415.95	12.00	-2.50%	415.65	4.00	-4.00%	415.49	
156+75.00	419.58	416.08	6.00	-4.00%	416.32	12.00	1.50%	416.50	12.00	-1.50%	416.32	12.00	-2.00%	416.08	12.00	-2.50%	415.78	3.00	-4.00%	415.66	
157+00.00	419.70	416.20	6.00	-4.00%	416.44	12.00	1.50%	416.62	12.00	-1.50%	416.44	12.00	-2.00%	416.20	12.00	-2.50%	415.90	3.00	-4.00%	415.78	
157+25.00	419.83	416.33	6.00	-4.00%	416.57	12.00	1.50%	416.75	12.00	-1.50%	416.57	12.00	-2.00%	416.33	12.00	-2.50%	416.03	3.00	-4.00%	415.91	
157+50.00	419.95	416.45	6.00	-4.00%	416.69	12.00	1.50%	416.87	12.00	-1.50%	416.69	12.00	-2.00%	416.45	12.00	-2.50%	416.15	3.00	-4.00%	416.03	
157+75.00	420.08	416.58	6.00	-4.00%	416.82	12.00	1.50%	417.00	12.00	-1.50%	416.82	12.00	-2.00%	416.58	12.00	-2.50%	416.28	3.00	-4.00%	416.16	
158+00.00	420.20	416.70	6.00	-4.00%	416.94	12.00	1.50%	417.12	12.00	-1.50%	416.94	12.00	-2.00%	416.70	12.00	-2.50%	416.40	3.00	-4.00%	416.28	SEE RAMP A CORE DETAILS
158+25.00	420.33	416.83	6.00	-4.00%	417.07	12.00	1.50%	417.25	12.00	-1.50%	417.07	12.00	-2.00%	416.83							
158+50.00	420.45	416.95	6.00	-4.00%	417.19	12.00	1.50%	417.37	12.00	-1.50%	417.19	12.00	-2.00%	416.95							
158+75.00	420.58	417.08	6.00	-4.00%	417.32	12.00	1.50%	417.50	12.00	-1.50%	417.32	12.00	-2.00%	417.08							
159+00.00	420.70	417.20	6.00	-4.00%	417.44	12.00	1.50%	417.62	12.00	-1.50%	417.44	12.00	-2.00%	417.20							
159+25.00	420.83	417.33	6.00	-4.00%	417.57	12.00	1.50%	417.75	12.00	-1.50%	417.57	12.00	-2.00%	417.33							
159+50.00	420.95	417.45	6.00	-4.00%	417.69	12.00	1.50%	417.87	12.00	-1.50%	417.69	12.00	-2.00%	417.45							
159+75.00	421.08	417.58	6.00	-4.00%	417.82	12.00	1.50%	418.00	12.00	-1.50%	417.82	12.00	-2.00%	417.58							
160+00.00	421.20	417.70	6.00	-4.00%	417.94	12.00	1.50%	418.12	12.00	-1.50%	417.94	12.00	-2.00%	417.70							
160+25.00	421.33	417.83	6.00	-4.00%	418.07	12.00	1.50%	418.25	12.00	-1.50%	418.07	12.00	-2.00%	417.83							
160+50.00	421.45	417.95	6.00	-4.00%	418.19	12.00	1.50%	418.37	12.00	-1.50%	418.19	12.00	-2.00%	417.95							
160+75.00	421.58	418.08	6.00	-4.00%	418.32	12.00	1.50%	418.50	12.00	-1.50%	418.32	12.00	-2.00%	418.08							
161+00.00	421.70	418.20	6.00	-4.00%	418.44	12.00	1.50%	418.62	12.00	-1.50%	418.44	12.00	-2.00%	418.20							
161+25.00	421.83	418.33	6.00	-4.00%	418.57	12.00	1.50%	418.75	12.00	-1.50%	418.57	12.00	-2.00%	418.33							
161+50.00	421.95	418.45	6.00	-4.00%	418.69	12.00	1.50%	418.87	12.00	-1.50%	418.69	12.00	-2.00%	418.45							
161+75.00	422.08	418.58	6.00	-4.00%	418.82	12.00	1.50%	419.00	12.00	-1.50%	418.82	12.00	-2.00%	418.58							
162+00.00	422.20	418.70	6.00	-4.00%	418.94	12.00	1.50%	419.12	12.00	-1.50%	418.94	12.00	-2.00%	418.70							
162+25.00	422.33	418.83	6.00	-4.00%	419.07	12.00	1.50%	419.25	12.00	-1.50%	419.07	12.00	-2.00%	418.83							
162+50.00	422.45	418.95	6.00	-4.00%	419.1																

EASTBOUND I-70

STATION	TOP OF WALL ELEV.	ELEV. A	SHOULDER		ELEV. C	LANE 1		LANE 2		LANE 3		FUTURE LANE 4		SHOULDER		ELEV. H	COMMENTS					
			WIDTH (FT) A TO C	SLOPE A TO C		WIDTH (FT) C TO D	SLOPE C TO D	WIDTH (FT) D TO E	SLOPE D TO E	WIDTH (FT) E TO F	SLOPE E TO F	WIDTH (FT) F TO G	SLOPE F TO G	WIDTH (FT) G TO H	SLOPE G TO H							
165+50.00	423.95	420.45	6.00	-4.00%	420.69	12.00	1.50%	420.87	12.00	-1.50%	420.69	12.00	-2.00%	420.45	6.41	-2.00%	420.32	6.00	-4.00%	420.08		
165+75.00	424.08	420.58	6.00	-4.00%	420.82	12.00	1.50%	421.00	12.00	-1.50%	420.82	12.00	-2.00%	420.58	5.91	-2.00%	420.46	6.00	-4.00%	420.22		
166+00.00	424.20	420.70	6.00	-4.00%	420.94	12.00	1.50%	421.12	12.00	-1.50%	420.94	12.00	-2.00%	420.70	5.41	-2.00%	420.59	6.00	-4.00%	420.35		
166+25.00	424.33	420.83	6.00	-4.00%	421.07	12.00	1.50%	421.25	12.00	-1.50%	421.07	12.00	-2.00%	420.83	4.91	-2.00%	420.73	6.00	-4.00%	420.49		
166+50.00	424.45	420.95	6.00	-4.00%	421.19	12.00	1.50%	421.37	12.00	-1.50%	421.19	12.00	-2.00%	420.95	4.41	-2.00%	420.86	6.00	-4.00%	420.62		
166+75.00	424.58	421.08	6.00	-4.00%	421.32	12.00	1.50%	421.50	12.00	-1.50%	421.32	12.00	-2.00%	421.08	3.91	-2.00%	421.00	6.00	-4.00%	420.76		
167+00.00	424.70	421.20	6.00	-4.00%	421.44	12.00	1.50%	421.62	12.00	-1.50%	421.44	12.00	-2.00%	421.20	3.41	-2.00%	421.13	6.00	-4.00%	420.89		
167+25.00	424.83	421.33	6.00	-4.00%	421.57	12.00	1.50%	421.75	12.00	-1.50%	421.57	12.00	-2.00%	421.33	2.91	-2.00%	421.27	6.00	-4.00%	421.03		
167+50.00	424.95	421.45	6.00	-4.00%	421.69	12.00	1.50%	421.87	12.00	-1.50%	421.69	12.00	-2.00%	421.45	2.41	-2.00%	421.40	6.00	-4.00%	421.16		
167+75.00	425.05	421.55	6.00	-4.00%	421.79	12.00	1.50%	421.97	12.00	-1.50%	421.79	12.00	-2.00%	421.55	1.91	-2.00%	421.51	6.00	-4.00%	421.27		
168+00.00	425.14	421.64	6.00	-4.00%	421.88	12.00	1.50%	422.06	12.00	-1.50%	421.88	12.00	-2.00%	421.64	1.41	-2.00%	421.61	6.00	-4.00%	421.37		
168+25.00	425.20	421.70	6.00	-4.00%	421.94	12.00	1.50%	422.12	12.00	-1.50%	421.94	12.00	-2.00%	421.70				6.91	-4.00%	421.43		
168+50.00	425.25	421.75	6.00	-4.00%	421.99	12.00	1.50%	422.17	12.00	-1.50%	421.99	12.00	-2.00%	421.75				6.41	-4.00%	421.49		
168+75.00	425.28	421.78	6.00	-4.00%	422.02	12.00	1.50%	422.20	12.00	-1.50%	422.02	12.00	-2.00%	421.78				5.91	-4.00%	421.54		
169+00.00	425.29	421.79	6.00	-4.00%	422.03	12.00	1.50%	422.21	12.00	-1.50%	422.03	12.00	-2.00%	421.79				5.41	-4.00%	421.57		
169+25.00	425.28	421.78	6.00	-4.00%	422.02	12.00	1.50%	422.20	12.00	-1.50%	422.02	12.00	-2.00%	421.78				4.91	-4.00%	421.58		
169+50.00	425.25	421.75	6.00	-4.00%	421.99	12.00	1.50%	422.17	12.00	-1.50%	421.99	12.00	-2.00%	421.75				4.41	-4.00%	421.57		
169+75.00	425.20	421.70	6.00	-4.00%	421.94	12.00	1.50%	422.12	12.00	-1.50%	421.94	12.00	-2.00%	421.70				3.91	-4.00%	421.55		
170+00.00	425.14	421.64	6.00	-4.00%	421.88	12.00	1.50%	422.06	12.00	-1.50%	421.88	12.00	-2.00%	421.64				3.41	-4.00%	421.50		
170+25.00	425.05	421.55	6.00	-4.00%	421.79	12.00	1.50%	421.97	12.00	-1.50%	421.79	12.00	-2.00%	421.55				2.91	-4.00%	421.44		
170+50.00	424.95	421.45	6.00	-4.00%	421.69	12.00	1.50%	421.87	12.00	-1.50%	421.69	12.00	-2.00%	421.45				2.41	-4.00%	421.35		
170+75.00	424.83	421.33	6.00	-4.00%	421.57	12.00	1.50%	421.75	12.00	-1.50%	421.57	12.00	-2.00%	421.33				1.91	-4.00%	421.25		
171+00.00	424.70	421.20	6.00	-4.00%	421.44	12.00	1.50%	421.62	12.00	-1.50%	421.44	12.00	-2.00%	421.20				1.41	-4.00%	421.14		
171+25.00	424.58	421.08	6.00	-4.00%	421.32	12.00	1.50%	421.50	12.00	-1.50%	421.32	12.00	-2.00%	421.08								
171+50.00	424.45	420.95	6.00	-4.00%	421.19	12.00	1.50%	421.37	12.00	-1.50%	421.19	12.00	-2.00%	420.95								
171+75.00	424.33	420.83	6.00	-4.00%	421.07	12.00	1.50%	421.25	12.00	-1.50%	421.07	12.00	-2.00%	420.83								
172+00.00	424.20	420.70	6.00	-4.00%	420.94	12.00	1.50%	421.12	12.00	-1.50%	420.94	12.00	-2.00%	420.70								
172+25.00	424.08	420.58	6.00	-4.00%	420.82	12.00	1.50%	421.00	12.00	-1.50%	420.82	12.00	-2.00%	420.58								
172+50.00	423.95	420.45	6.00	-4.00%	420.69	12.00	1.50%	420.87	12.00	-1.50%	420.69	12.00	-2.00%	420.45								
172+75.00	423.83	420.33	6.00	-4.00%	420.57	12.00	1.50%	420.75	12.00	-1.50%	420.57	12.00	-2.00%	420.33								
173+00.00	423.70	420.20	6.00	-4.00%	420.44	12.00	1.50%	420.62	12.00	-1.50%	420.44	12.00	-2.00%	420.20								
173+25.00	423.58	420.08	6.00	-4.00%	420.32	12.00	1.50%	420.50	12.00	-1.50%	420.32	12.00	-2.00%	420.08								
173+50.00	423.45	419.95	6.00	-4.00%	420.19	12.00	1.50%	420.37	12.00	-1.50%	420.19	12.00	-2.00%	419.95								
173+75.00	423.33	419.83	6.00	-4.00%	420.07	12.00	1.50%	420.25	12.00	-1.50%	420.07	12.00	-2.00%	419.83								
174+00.00	423.20	419.70	6.00	-4.00%	419.94	12.00	1.50%	420.12	12.00	-1.50%	419.94	12.00	-2.00%	419.70								
174+25.00	423.08	419.58	6.00	-4.00%	419.82	12.00	1.50%	420.00	12.00	-1.50%	419.82	12.00	-2.00%	419.58								
174+50.00	422.95	419.45	6.00	-4.00%	419.69	12.00	1.50%	419.87	12.00	-1.50%	419.69	12.00	-2.00%	419.45								
174+75.00	422.83	419.33	6.00	-4.00%	419.57	12.00	1.50%	419.75	12.00	-1.50%	419.57	12.00	-2.00%	419.33								
175+00.00	422.70	419.20	6.00	-4.00%	419.44	12.00	1.50%	419.62	12.00	-1.50%	419.44	12.00	-2.00%	419.20								
175+25.00	422.59	419.09	6.00	-4.00%	419.33	12.00	1.50%	419.51	12.00	-1.50%	419.33	12.00	-2.00%	419.09								
175+50.00	422.49	418.99	6.00	-4.00%	419.23	12.00	1.50%	419.41	12.00	-1.50%	419.23	12.00	-2.00%	418.99								
175+75.00	422.40	418.90	6.00	-4.00%	419.14	12.00	1.50%	419.32	12.00	-1.50%	419.14	12.00	-2.00%	418.90								
176+00.00	422.33	418.83	6.00	-4.00%	419.07	12.00	1.50%	419.25	12.00	-1.50%	419.07	12.00	-2.00%	418.83								
176+25.00	422.28	418.78	6.00	-4.00%	419.02	12.00	1.50%	419.20	12.00	-1.50%	419.02	12.00	-2.00%	418.78								
176+50.00	422.23	418.73	6.00	-4.31%	418.99	12.00	1.50%	419.17	12.00	-1.50%	418.99	12.00	-2.00%	418.75								
176+75.00	422.15	418.65	6.00	-5.31%	418.97	12.00	1.50%	419.15	12.00	-1.50%	418.97	12.00	-2.00%	418.73								
177+00.00	422.12	418.62	6.00	-5.69%	418.96	12.00	1.50%	419.14	12.00	-1.50%	418.96	12.00	-2.00%	418.72								
177+25.00	422.20	418.70	6.00	-4.69%	418.98	12.00	1.50%	419.16	12.00	-1.50%	418.98	12.00	-2.00%	418.74								
177+50.00	422.27	418.77	6.00	-4.00%	419.01	12.00	1.50%	419.19	12.00	-1.50%	419.01	12.00	-2.00%	418.77								
177+75.00	422.31	418.81	6.00	-4.00%	419.05	12.00	1.50%	419.23	12.00	-1.50%	419.05	12.00	-2.00%	418.81								
178+00.00	422.37	418.87	6.00	-4.00%	419.11	12.00	1.50%	419.29	12.00	-1.50%	419.11	12.00	-2.00%	418.87								
178+25.00	422.45	418.95	6.00	-4.00%	419.19	12.00	1.50%	419.37	12.00	-1.50%	419.19	12.00	-2.00%	418.95								
178+50.00	422.55	419.05	6.00	-4.00%	419.29	12.00	1.50%	419.47	12.00	-1.50%	419.29	12.00	-2.00%	419.05								
178+75.00	422.66	419.16	6.00	-4.00%	419.40	12.00	1.50%	419.58	12.00	-1.50%	419.40	12.00	-2.00%	419.16								
179+00.00	422.78	419.28	6.00	-4.00%	419.52	12.00	1.50%	419.70	12.00	-1.50%	419.52	12.00	-2.00%	419.28								
179+25.00	422.93	419.43	6.00	-4.00%	419.67	12.00	1.50%	419.85	12.00	-1.50%	419.67	12.00	-2.00%	419.43								
179+50.00	423.09	419.59	6.00	-4.00%	419.83	12.00	1.50%	420.01	12.00	-1.50%	419.83	12.00	-2.00%	419.59								
179+75.00	423.26	419.76	6.00	-4.00%	420.00	12.00	1.50%	420.18	12.00	-1.50%	420.00	12.00	-2.00%	419.76								
180+00.00	423.45	419.95	6.00	-4.00%	420.19	12.00	1.50%	420.37	12.00	-1.50%	420.19	12.00	-2.00%	419.95				1.32	-4.00%	419.90		
180+25.00	423.66	420.16	6.00	-4.00%	420.40	12.00	1.50%	420.58	12.00	-1.50%	420.40	12.00	-2.00%	420								

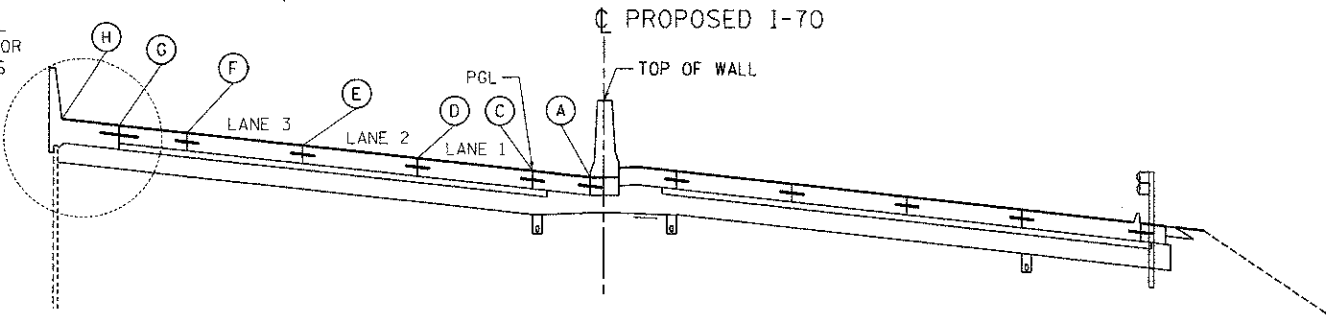
WESTBOUND I-70

STATION	TOP OF WALL ELEV.	ELEV. A	SHOULDER		ELEV. C	LANE 1		ELEV. D	LANE 2		ELEV. E	LANE 3		ELEV. F	FUTURE LANE 4		SHOULDER		ELEV. H	COMMENTS	
			WIDTH A TO C	SLOPE A TO C		WIDTH C TO D	SLOPE C TO D		WIDTH D TO E	SLOPE D TO E		WIDTH E TO F	SLOPE E TO F		WIDTH F TO G	SLOPE F TO G	WIDTH G TO H	SLOPE G TO H			
140+96.67	446.50	442.52	6.00	-5.40%	442.84	12.00	5.40%	443.49	12.00	5.40%	444.14	8.00	5.40%	444.57	8.29	5.40%	445.02	6.00	5.40%	445.34	MATCH APPROACH ELEV.
141+00.00	446.40	442.42	6.00	-5.40%	442.74	12.00	5.40%	443.39	12.00	5.40%	444.04	8.00	5.40%	444.47	8.31	5.40%	444.92	6.00	5.40%	445.24	
141+25.00	445.65	441.67	6.00	-5.40%	441.99	12.00	5.40%	442.64	12.00	5.40%	443.29	8.00	5.40%	443.72	8.40	5.40%	444.17	6.00	5.40%	444.50	
141+50.00	444.90	440.92	6.00	-5.40%	441.24	12.00	5.40%	441.89	12.00	5.40%	442.54	8.00	5.40%	442.97	8.51	5.40%	443.43	6.00	5.40%	443.75	
141+75.00	444.15	440.17	6.00	-5.40%	440.49	12.00	5.40%	441.14	12.00	5.40%	441.79	8.00	5.40%	442.22	8.62	5.40%	442.68	6.00	5.40%	443.01	
142+00.00	443.40	439.42	6.00	-5.40%	439.74	12.00	5.40%	440.39	12.00	5.40%	441.04	8.00	5.40%	441.47	8.75	5.40%	441.94	6.00	5.40%	442.26	
142+25.00	442.65	438.67	6.00	-5.40%	438.99	12.00	5.40%	439.64	12.00	5.40%	440.29	8.00	5.40%	440.72	8.88	5.40%	441.20	6.00	5.40%	441.52	
142+50.00	441.90	437.92	6.00	-5.40%	438.24	12.00	5.40%	438.89	12.00	5.40%	439.54	8.00	5.40%	439.97	9.03	5.40%	440.46	6.00	5.40%	440.78	
142+75.00	441.15	437.17	6.00	-5.40%	437.49	12.00	5.40%	438.14	12.00	5.40%	438.79	8.00	5.40%	439.22	9.17	5.40%	439.71	6.00	5.40%	440.04	
143+00.00	440.39	436.42	6.00	-5.40%	436.74	12.00	5.40%	437.39	12.00	5.40%	438.04	8.00	5.40%	438.47	9.34	5.40%	438.97	6.00	5.40%	439.30	
143+25.00	439.64	435.67	6.00	-5.40%	435.99	12.00	5.40%	436.64	12.00	5.40%	437.29	8.00	5.40%	437.72	9.51	5.40%	438.23	6.00	5.40%	438.56	
143+50.00	438.88	434.92	6.00	-5.40%	435.24	12.00	5.40%	435.89	12.00	5.40%	436.54	8.00	5.40%	436.97	9.69	5.40%	437.49	6.00	5.40%	437.82	
143+75.00	438.13	434.17	6.00	-5.40%	434.49	12.00	5.40%	435.14	12.00	5.40%	435.79	8.00	5.40%	436.22	9.88	5.40%	436.75	6.00	5.40%	437.08	
144+00.00	437.37	433.42	6.00	-5.40%	433.74	12.00	5.40%	434.39	12.00	5.40%	435.04	8.26	5.40%	435.48	9.81	5.40%	436.01	6.00	5.40%	436.34	
144+25.00	436.61	432.67	6.00	-5.40%	432.99	12.00	5.40%	433.64	12.00	5.40%	434.29	8.54	5.40%	434.75	9.74	5.40%	435.27	6.00	5.40%	435.60	
144+50.00	435.85	431.92	6.00	-5.40%	432.24	12.00	5.40%	432.89	12.00	5.40%	433.54	8.82	5.40%	434.01	9.68	5.40%	434.54	6.00	5.40%	434.86	
144+75.00	435.09	431.17	6.00	-5.40%	431.49	12.00	5.40%	432.14	12.00	5.40%	432.79	9.10	5.40%	433.28	9.63	5.40%	433.80	6.00	5.40%	434.12	
145+00.00	434.33	430.42	6.00	-5.40%	430.74	12.00	5.40%	431.39	12.00	5.40%	432.04	9.38	5.40%	432.54	9.59	5.40%	433.06	6.00	5.40%	433.38	
145+25.00	433.57	429.67	6.00	-5.40%	429.99	12.00	5.40%	430.64	12.00	5.40%	431.29	9.66	5.40%	431.81	9.55	5.40%	432.32	6.00	5.40%	432.65	
145+50.00	432.81	428.92	6.00	-5.40%	429.24	12.00	5.40%	429.89	12.00	5.40%	430.54	9.94	5.40%	431.07	9.53	5.40%	431.59	6.00	5.40%	431.91	
145+75.00	432.05	428.17	6.00	-5.40%	428.49	12.00	5.40%	429.14	12.00	5.40%	429.79	10.22	5.40%	430.34	9.51	5.40%	430.85	6.00	5.40%	431.18	
146+00.00	431.29	427.42	6.00	-5.40%	427.74	12.00	5.40%	428.39	12.00	5.40%	429.04	10.50	5.40%	429.60	9.51	5.40%	430.12	6.00	5.40%	430.44	
146+25.00	430.52	426.67	6.00	-5.40%	426.99	12.00	5.40%	427.64	12.00	5.40%	428.29	10.78	5.40%	428.87	9.51	5.40%	429.38	6.00	5.40%	429.71	
146+50.00	429.76	425.92	6.00	-5.40%	426.24	12.00	5.40%	426.89	12.00	5.40%	427.54	11.06	5.40%	428.13	9.53	5.40%	428.65	6.00	5.40%	428.97	
146+75.00	428.99	425.17	6.00	-5.40%	425.49	12.00	5.40%	426.14	12.00	5.40%	426.79	11.34	5.40%	427.40	9.55	5.40%	427.91	6.00	5.40%	428.24	
147+00.00	428.24	424.42	6.00	-5.40%	424.75	12.00	5.40%	425.40	12.00	5.40%	426.04	11.61	5.40%	426.67	9.58	5.40%	427.19	6.00	5.40%	427.51	
147+25.00	427.50	423.71	6.00	-5.40%	424.03	12.00	5.40%	424.68	12.00	5.40%	425.33	11.89	5.40%	425.97	9.63	5.40%	426.49	6.00	5.40%	426.82	
147+35.00	427.22	423.43	6.00	-5.40%	423.76	12.00	5.40%	424.40	12.00	5.40%	425.05	12.00	5.40%	425.70	9.64	5.40%	426.22	9.00	5.40%	426.71	BEGIN GUARDRAIL (ADD 3' TO SHLD)
147+50.00	426.80	423.02	6.00	-5.40%	423.35	12.00	5.40%	424.00	12.00	5.40%	424.64	12.00	5.40%	425.29	9.84	5.40%	425.82	9.00	5.40%	426.31	
147+65.00	426.39	422.62	6.00	-5.40%	422.95	12.00	5.40%	423.60	12.00	5.40%	424.24	12.00	5.40%	424.89	10.04	5.40%	425.43	9.00	5.40%	425.92	FULL S.E. ENDS
147+75.00	426.11	422.37	6.00	-5.26%	422.69	12.00	5.26%	423.32	12.00	5.26%	423.95	12.00	5.26%	424.58	10.18	5.26%	425.12	9.00	5.26%	425.59	
148+00.00	425.44	421.76	6.00	-4.91%	422.06	12.00	4.91%	422.64	12.00	4.91%	423.23	12.00	4.91%	423.82	10.53	4.91%	424.34	9.00	4.91%	424.78	
148+25.00	424.79	421.18	6.00	-4.56%	421.45	12.00	4.56%	422.00	12.00	4.56%	422.54	12.00	4.56%	423.09	10.88	4.56%	423.59	9.00	3.13%	423.87	
148+50.00	424.18	420.62	6.00	-4.21%	420.87	12.00	4.21%	421.38	12.00	4.21%	421.88	12.00	4.21%	422.39	11.25	4.21%	422.86	9.00	1.35%	422.98	
148+65.00	423.86	420.30	6.00	-4.00%	420.54	12.00	4.00%	421.02	12.00	4.00%	421.50	12.00	4.00%	421.98	11.47	4.00%	422.44	9.00	0.28%	422.46	
148+75.00	423.59	420.08	6.00	-4.00%	420.32	12.00	3.86%	420.79	12.00	3.86%	421.25	12.00	3.86%	421.71	11.62	3.86%	422.16	9.00	-0.44%	422.12	
148+85.08	423.37	419.87	6.00	-4.00%	420.11	12.00	3.72%	420.55	12.00	3.72%	421.00	12.00	3.72%	421.45	11.77	3.72%	421.89	9.00	-1.15%	421.78	PT
149+00.00	423.06	419.56	6.00	-4.00%	419.80	12.00	3.51%	420.22	12.00	3.51%	420.64	12.00	3.51%	421.06	11.94	3.51%	421.48	9.00	-2.22%	421.28	
149+25.00	422.56	419.06	6.00	-4.00%	419.30	12.00	3.16%	419.68	12.00	3.16%	420.06	12.00	3.16%	420.44	12.00	3.16%	420.82	9.00	-4.00%	420.46	
149+50.00	422.09	418.59	6.00	-4.00%	418.83	12.00	2.81%	419.17	12.00	2.81%	419.51	12.00	2.81%	419.85	12.00	2.81%	420.19	9.00	-4.00%	419.83	
149+66.77	421.80	418.30	6.00	-4.00%	418.54	12.00	2.58%	418.85	12.00	2.58%	419.16	12.00	2.58%	419.46							
149+75.00	421.65	418.15	6.00	-4.00%	418.39	12.00	2.46%	418.69	12.00	2.46%	418.99	12.00	2.46%	419.28							SEE RAMP D GORE DETAILS
150+00.00	421.24	417.74	6.00	-4.00%	417.98	12.00	2.12%	418.23	12.00	2.12%	418.49	12.00	2.12%	418.74							
150+25.00	420.85	417.35	6.00	-4.00%	417.59	12.00	1.77%	417.81	12.00	1.77%	418.02	12.00	1.77%	418.23							
150+44.00	420.58	417.08	6.00	-4.00%	417.32	12.00	1.50%	417.50	12.00	1.50%	417.68	12.00	1.50%	417.86							
150+50.00	420.49	416.99	6.00	-4.00%	417.23	12.00	1.50%	417.41	12.00	1.39%	417.58	12.00	1.39%	417.75							
150+75.00	420.16	416.66	6.00	-4.00%	416.90	12.00	1.50%	417.08	12.00	0.93%	417.19	12.00	0.93%	417.31							
151+00.00	419.86	416.36	6.00	-4.00%	416.60	12.00	1.50%	416.78	12.00	0.46%	416.83	12.00	0.46%	416.89							
151+25.00	419.58	416.08	6.00	-4.00%	416.32	12.00	1.50%	416.50	12.00	0.00%	416.50	12.00	0.00%	416.50							
151+48.41	419.35	415.85	6.00	-4.00%	416.09	12.00	1.50%	416.27	12.00	-0.43%	416.22	12.00	-0.43%	416.17							END GUARDRAIL
151+50.00	419.33	415.83	6.00	-4.00%	416.07	12.00	1.50%	416.25	12.00	-0.46%	416.20	12.00	-0.46%	416.14							
151+75.00	419.11	415.61	6.00	-4.00%	415.85	12.00	1.50%	416.03	12.00	-0.93%	415.92	12.00	-0.93%	415.81							
152+00.00	418.92	415.42	6.00	-4.00%	415.66	12.00	1.50%	415.84	12.00	-1.39%	415.67	12.00	-1.39%	415.50							



STA. 147+35.00 TO STA. 151+48.41

SEE DETAIL AT LEFT FOR VARIATIONS



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 PROJECT: I-70 CONNECTION
 SHEET: 5 OF 8

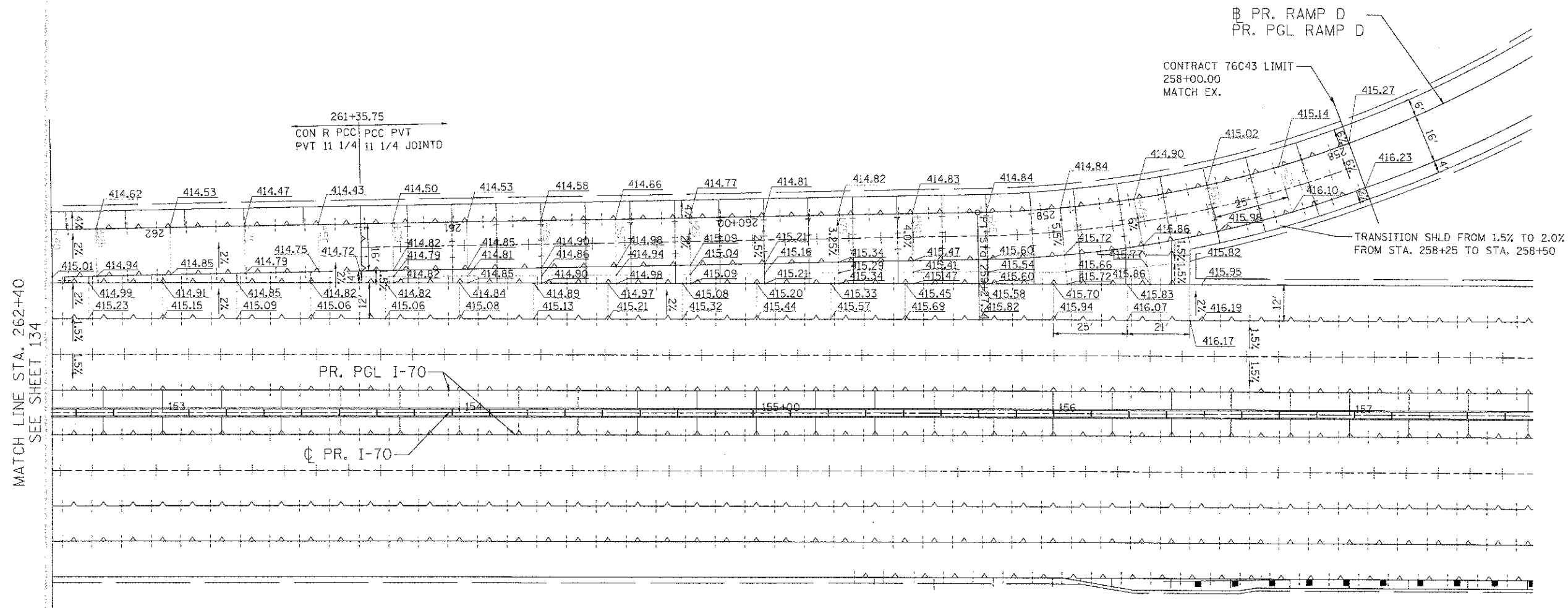
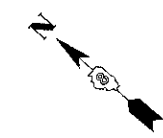
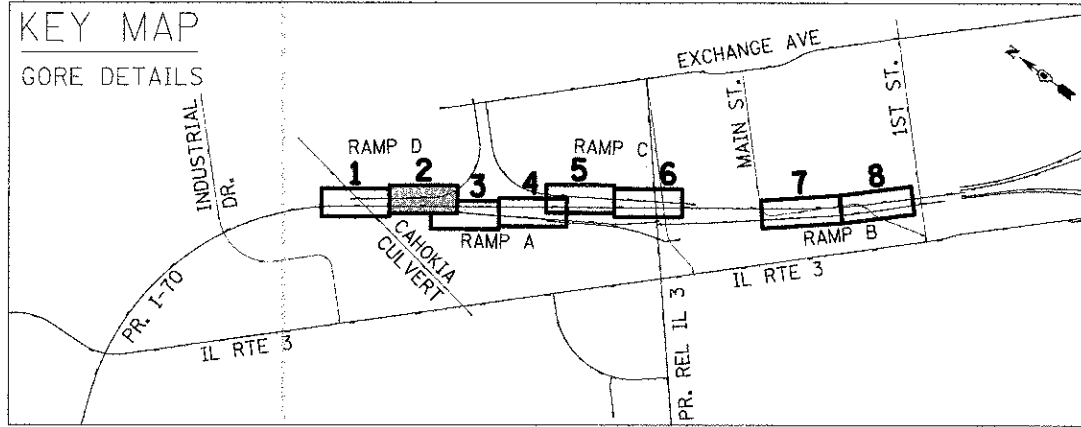
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	USER NAME = #USER# DESIGNED - RMM DRAWN - MDN CHECKED - DE DATE - 06/29/12	REVISED - REVISED - REVISED -
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WESTBOUND I-70

STATION	TOP OF WALL ELEV.	ELEV. A	SHOULDER		PGL ELEV. C	LANE 1		LANE 2		LANE 3		SHOULDER		SHOULDER		ELEV. G	ELEV. H	COMMENTS
			WIDTH A TO C	SLOPE A TO C		WIDTH C TO D	SLOPE C TO D	WIDTH D TO E	SLOPE D TO E	WIDTH E TO F	SLOPE E TO F	WIDTH F TO G	SLOPE F TO G	WIDTH G TO H	SLOPE G TO H			
169+25.00	425.28	421.78	6.00	-4.00%	422.02	12.00	1.50%	422.20	12.00	-1.50%	422.02	12.00	-2.00%	421.78				
169+50.00	425.25	421.75	6.00	-4.00%	421.99	12.00	1.50%	422.17	12.00	-1.50%	421.99	12.00	-2.00%	421.75				
169+75.00	425.20	421.70	6.00	-4.00%	421.94	12.00	1.50%	422.12	12.00	-1.50%	421.94	12.00	-2.00%	421.70				
170+00.00	425.14	421.64	6.00	-4.00%	421.88	12.00	1.50%	422.06	12.00	-1.50%	421.88	12.00	-2.00%	421.64				
170+25.00	425.05	421.55	6.00	-4.00%	421.79	12.00	1.50%	421.97	12.00	-1.50%	421.79	12.00	-2.00%	421.55				
170+50.00	424.95	421.45	6.00	-4.00%	421.69	12.00	1.50%	421.87	12.00	-1.50%	421.69	12.00	-2.00%	421.45				
170+75.00	424.83	421.33	6.00	-4.00%	421.57	12.00	1.50%	421.75	12.00	-1.50%	421.57	12.00	-2.00%	421.33				
171+00.00	424.70	421.20	6.00	-4.00%	421.44	12.00	1.50%	421.62	12.00	-1.50%	421.44	12.00	-2.00%	421.20				
171+25.00	424.58	421.08	6.00	-4.00%	421.32	12.00	1.50%	421.50	12.00	-1.50%	421.32	12.00	-2.00%	421.08				
171+50.00	424.45	420.95	6.00	-4.00%	421.19	12.00	1.50%	421.37	12.00	-1.50%	421.19	12.00	-2.00%	420.95				
171+75.00	424.33	420.83	6.00	-4.00%	421.07	12.00	1.50%	421.25	12.00	-1.50%	421.07	12.00	-2.00%	420.83				
172+00.00	424.20	420.70	6.00	-4.00%	420.94	12.00	1.50%	421.12	12.00	-1.50%	420.94	12.00	-2.00%	420.70				
172+25.00	424.08	420.58	6.00	-4.00%	420.82	12.00	1.50%	421.00	12.00	-1.50%	420.82	12.00	-2.00%	420.58				
172+50.00	423.95	420.45	6.00	-4.00%	420.69	12.00	1.50%	420.87	12.00	-1.50%	420.69	12.00	-2.00%	420.45				
172+75.00	423.83	420.33	6.00	-4.00%	420.57	12.00	1.50%	420.75	12.00	-1.50%	420.57	12.00	-2.00%	420.33				
173+00.00	423.70	420.20	6.00	-4.00%	420.44	12.00	1.50%	420.62	12.00	-1.50%	420.44	12.00	-2.00%	420.20				
173+25.00	423.58	420.08	6.00	-4.00%	420.32	12.00	1.50%	420.50	12.00	-1.50%	420.32	12.00	-2.00%	420.08				
173+50.00	423.45	419.95	6.00	-4.00%	420.19	12.00	1.50%	420.37	12.00	-1.50%	420.19	12.00	-2.00%	419.95				
173+75.00	423.33	419.83	6.00	-4.00%	420.07	12.00	1.50%	420.25	12.00	-1.50%	420.07	12.00	-2.00%	419.83				
174+00.00	423.20	419.70	6.00	-4.00%	419.94	12.00	1.50%	420.12	12.00	-1.50%	419.94	12.00	-2.00%	419.70	10.00	-4.00%	419.30	
174+25.00	423.08	419.58	6.00	-4.00%	419.82	12.00	1.50%	420.00	12.00	-1.50%	419.82	12.00	-2.00%	419.58	10.00	-4.00%	419.18	
174+50.00	422.95	419.45	6.00	-4.00%	419.69	12.00	1.50%	419.87	12.00	-1.50%	419.69	12.00	-2.00%	419.45	10.00	-4.00%	419.05	
174+75.00	422.83	419.33	6.00	-4.00%	419.57	12.00	1.50%	419.75	12.00	-1.50%	419.57	12.00	-2.00%	419.33	10.00	-4.00%	418.93	
175+00.00	422.70	419.20	6.00	-4.00%	419.44	12.00	1.50%	419.62	12.00	-1.50%	419.44	12.00	-2.00%	419.20	10.00	-4.00%	418.80	
175+25.00	422.59	419.09	6.00	-4.00%	419.33	12.00	1.50%	419.51	12.00	-1.50%	419.33	12.00	-2.00%	419.09	10.00	-4.00%	418.69	
175+50.00	422.49	418.99	6.00	-4.00%	419.23	12.00	1.50%	419.41	12.00	-1.50%	419.23	12.00	-2.00%	418.99	10.00	-4.00%	418.59	
175+75.00	422.40	418.90	6.00	-4.00%	419.14	12.00	1.50%	419.32	12.00	-1.50%	419.14	12.00	-2.00%	418.90	10.00	-4.00%	418.50	
176+00.00	422.33	418.83	6.00	-4.00%	419.07	12.00	1.50%	419.25	12.00	-1.50%	419.07	12.00	-2.00%	418.83	10.00	-4.00%	418.43	
176+25.00	422.28	418.78	6.00	-4.00%	419.02	12.00	1.50%	419.20	12.00	-1.50%	419.02	12.00	-2.00%	418.78	10.00	-4.00%	418.38	
176+50.00	422.23	418.73	6.00	-4.31%	418.99	12.00	1.50%	419.17	12.00	-1.50%	418.99	12.00	-2.00%	418.75	10.00	-4.00%	418.35	
176+75.00	422.15	418.65	6.00	-5.31%	418.97	12.00	1.50%	419.15	12.00	-1.50%	418.97	12.00	-2.00%	418.73	10.00	-4.00%	418.33	MEDIAN SHLD SLOPE VARIES FROM 4% TO 6% AT LOW POINT STA. 176+92.17
177+00.00	422.12	418.62	6.00	-5.69%	418.96	12.00	1.50%	419.14	12.00	-1.50%	418.96	12.00	-2.00%	418.72	10.00	-4.00%	418.32	
177+25.00	422.20	418.70	6.00	-4.69%	418.98	12.00	1.50%	419.16	12.00	-1.50%	418.98	12.00	-2.00%	418.74	10.00	-4.00%	418.34	
177+50.00	422.27	418.77	6.00	-4.00%	419.01	12.00	1.50%	419.19	12.00	-1.50%	419.01	12.00	-2.00%	418.77	10.00	-4.00%	418.37	
177+75.00	422.31	418.81	6.00	-4.00%	419.05	12.00	1.50%	419.23	12.00	-1.50%	419.05	12.00	-2.00%	418.81	10.00	-4.00%	418.41	
178+00.00	422.37	418.87	6.00	-4.00%	419.11	12.00	1.50%	419.29	12.00	-1.50%	419.11	12.00	-2.00%	418.87	10.00	-4.00%	418.47	
178+25.00	422.45	418.95	6.00	-4.00%	419.19	12.00	1.50%	419.37	12.00	-1.50%	419.19	12.00	-2.00%	418.95	10.00	-4.00%	418.55	
178+50.00	422.55	419.05	6.00	-4.00%	419.29	12.00	1.50%	419.47	12.00	-1.50%	419.29	12.00	-2.00%	419.05	10.00	-4.00%	418.65	
178+75.00	422.66	419.16	6.00	-4.00%	419.40	12.00	1.50%	419.58	12.00	-1.50%	419.40	12.00	-2.00%	419.16	10.00	-4.00%	418.76	
179+00.00	422.78	419.28	6.00	-4.00%	419.52	12.00	1.50%	419.70	12.00	-1.50%	419.52	12.00	-2.00%	419.28	10.00	-4.00%	418.88	
179+25.00	422.93	419.43	6.00	-4.00%	419.67	12.00	1.50%	419.85	12.00	-1.50%	419.67	12.00	-2.00%	419.43	10.00	-4.00%	419.03	
179+50.00	423.09	419.59	6.00	-4.00%	419.83	12.00	1.50%	420.01	12.00	-1.50%	419.83	12.00	-2.00%	419.59	10.00	-4.00%	419.19	
179+75.00	423.26	419.76	6.00	-4.00%	420.00	12.00	1.50%	420.18	12.00	-1.50%	420.00	12.00	-2.00%	419.76	10.00	-4.00%	419.36	
180+00.00	423.45	419.95	6.00	-4.00%	420.19	12.00	1.50%	420.37	12.00	-1.50%	420.19	12.00	-2.00%	419.95	10.00	-4.00%	419.55	
180+25.00	423.66	420.16	6.00	-4.00%	420.40	12.00	1.50%	420.58	12.00	-1.50%	420.40	12.00	-2.00%	420.16	10.00	-4.00%	419.76	
180+50.00	423.89	420.39	6.00	-4.00%	420.63	12.00	1.50%	420.81	12.00	-1.50%	420.63	12.00	-2.00%	420.39	10.00	-4.00%	419.99	
180+75.00	424.13	420.63	6.00	-4.00%	420.87	12.00	1.50%	421.05	12.00	-1.50%	420.87	12.00	-2.00%	420.63	10.00	-4.00%	420.23	
181+00.00	424.38	420.88	6.00	-4.00%	421.12	12.00	1.50%	421.30	12.00	-1.50%	421.12	12.00	-2.00%	420.88	10.00	-4.00%	420.48	
181+25.00	424.66	421.16	6.00	-4.00%	421.40	12.00	1.50%	421.58	12.00	-1.50%	421.40	12.00	-2.00%	421.16	10.00	-4.00%	420.76	
181+50.00	424.95	421.45	6.00	-4.00%	421.69	12.00	1.50%	421.87	12.00	-1.50%	421.69	12.00	-2.00%	421.45	10.00	-4.00%	421.05	
181+75.00	425.25	421.75	6.00	-4.00%	421.99	12.00	1.50%	422.17	12.00	-1.50%	421.99	12.00	-2.00%	421.75	10.00	-4.00%	421.35	
182+00.00	425.58	422.08	6.00	-4.00%	422.32	12.00	1.50%	422.50	12.00	-1.50%	422.32	12.00	-2.00%	422.08	10.00	-4.00%	421.68	
182+24.00	425.90	422.40	6.00	-4.00%	422.64	12.00	1.50%	422.82	12.00	-1.50%	422.64	12.00	-2.00%	422.40	10.00	-4.00%	422.00	
182+25.00	425.91	422.41	6.00	-4.00%	422.65	12.00	1.45%	422.83	12.00	-1.50%	422.65	12.00	-2.00%	422.41	10.00	-4.00%	422.01	NORMAL CROWN ENDS
182+50.00	426.27	422.77	6.00	-4.00%	423.01	12.00	0.28%	423.04	12.00	-1.50%	422.86	12.00	-2.00%	422.62	10.00	-4.00%	422.22	
182+56.00	426.36	422.86	6.00	-4.00%	423.10	12.00	0.00%	423.10	12.00	-1.50%	422.92	12.00	-2.00%	422.68	10.00	-4.00%	422.28	
182+75.00	426.64	423.14	6.00	-4.00%	423.38	12.00	-0.89%	423.27	12.00	-1.50%	423.09	12.00	-2.00%	422.85	10.00	-4.00%	422.45	
182+88.00	426.84	423.34	6.00	-4.00%	423.58	12.00	-1.50%	423.40	12.00	-1.50%	423.22	12.00	-2.00%	422.98	10.00	-4.00%	422.58	
183+00.00	427.03	423.53	6.00	-4.00%	423.77	12.00	-1.79%	423.55	12.00	-1.79%	423.34	12.00	-2.00%	423.10	10.00	-4.00%	422.70	
183+09.00	427.17	423.67	6.00	-4.00%	423.91	12.00	-2.00%	423.67	12.00	-2.00%	423.43	12.00	-2.00%	423.19	10.00	-4.00%	422.79	
183+25.00	427.43	423.93	6.00	-4.00%	424.17	12.00	-2.25%	423.90	12.00	-2.25%	423.63	12.00	-2.00%	423.36	10.00	-4.00%	422.96	
183+32.89	427.56	424.06	6.00	-4.00%	424.30	12.00	-2.37%	424.01	12.00	-2.37%	423.73	12.00	-2.37%	423.45	10.00	-4.00%	423.05	PC
183+50.00	427.85	424.35	6.00	-4.00%	424.59	12.00	-2.63%	424.27	12.00	-2.63%	423.96	12.00	-2.63%	423.64	10.00	-4.00%	423.24	
183+75.00	428.28	424.78	6.00	-4.00%	425.02													

KEY MAP

GORE DETAILS



JOINTING LEGEND

	LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS. (1)		LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 30" CTS. (USE 18" CTS ON RAMPS A TO D) (4)
	TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS. (2)		LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS) (5)
	TRANSVERSE EXPANSION JOINT WITH DOWEL BARS. (3)		

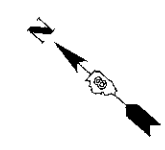


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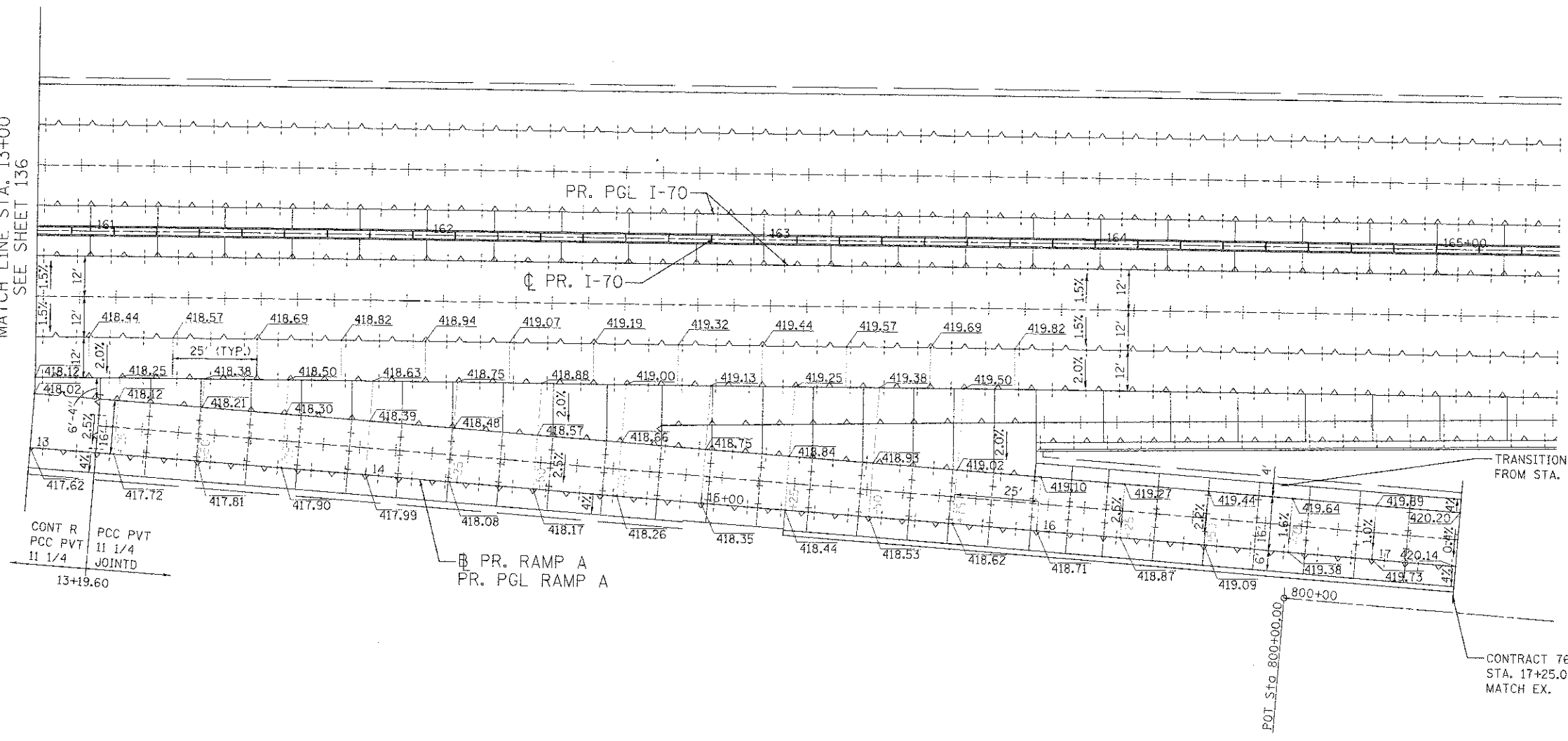
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70 AND RAMP D
GORE DETAILS
SCALE: 1"=20'
SHEET NO. 2 OF 8 SHEETS
STA. 262+40 TO STA. 258+00

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 135
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



MATCH LINE STA. 13+00
SEE SHEET 136

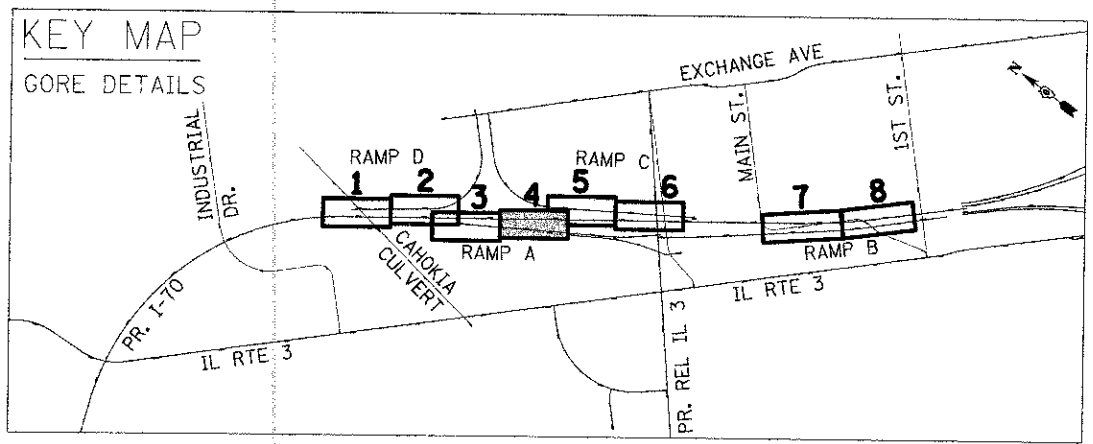


CONT R PCC PVT
PCC PVT II 1/4
II 1/4 JOINTD
13+19.60

PR. RAMP A
PR. PGL RAMP A

TRANSITION SHLD FROM 2.0% TO 4.0%
FROM STA. 16+16 TO STA. 16+67

CONTRACT 76C43 LIMITS
STA. 17+25.00
MATCH EX.



JOINTING LEGEND

- ① LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS.
 - ② TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS.
 - ③ TRANSVERSE EXPANSION JOINT WITH DOWEL BARS.
 - ④ LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 30" CTS. (USE 18" CTS ON RAMPS A TO D)
 - ⑤ LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)
- ALL EPOXY COATED



USER NAME = #USER#	DESIGNED - SEW	REVISED -
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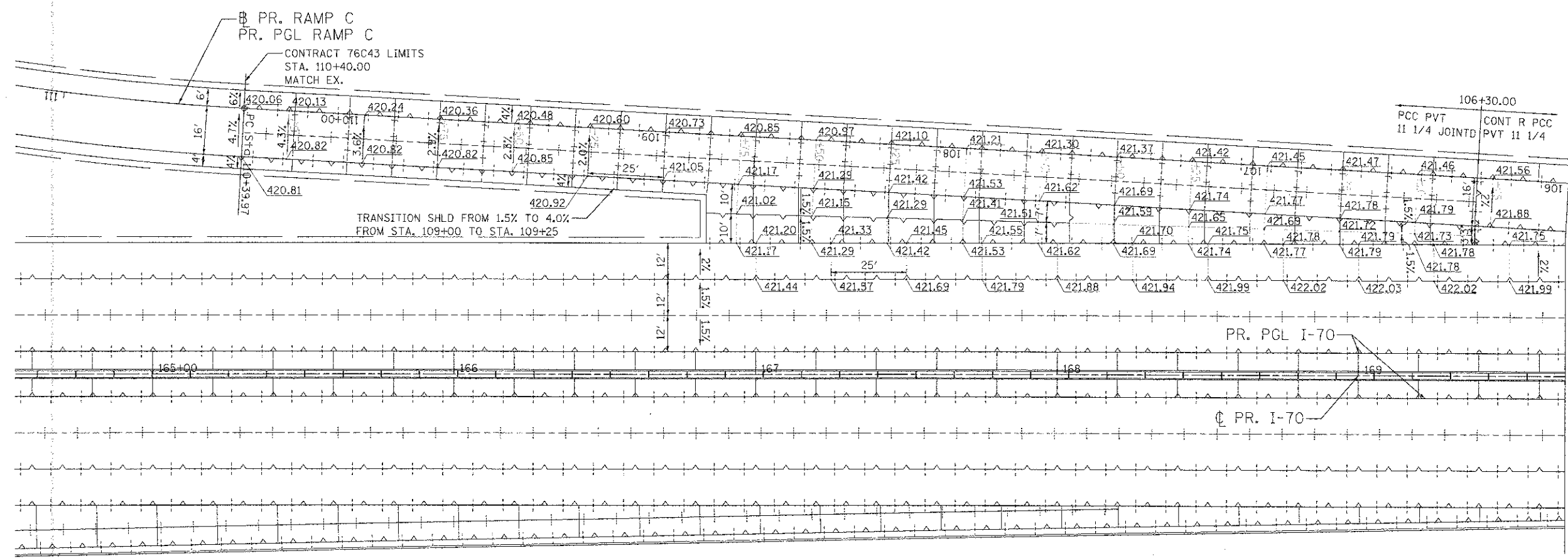
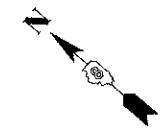
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
I-70 CONNECTION

**PROPOSED I-70 AND RAMP A
GORE DETAILS**

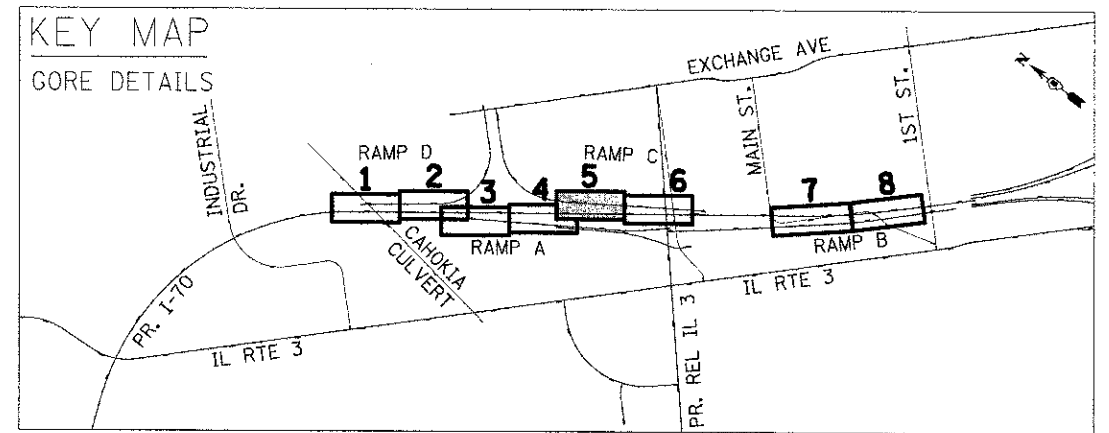
SCALE: 1"=20' SHEET NO. 4 OF 8 SHEETS STA. 13+00 TO STA. 17+25

F.A.P. 1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	137
CONTRACT NO. 76C43				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



MATCH LINE STA. 106+00
SEE SHEET 139



JOINTING LEGEND

	LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS. ①		LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 30" CTS. (USE 18" CTS ON RAMPS A TO D) ④
	TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS. ②		LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS) ⑤
	TRANSVERSE EXPANSION JOINT WITH DOWEL BARS. ③		

ALL EPOXY COATED



USER NAME = @USER@	DESIGNED - SEW	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
I-70 CONNECTION

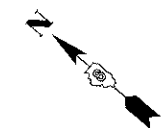
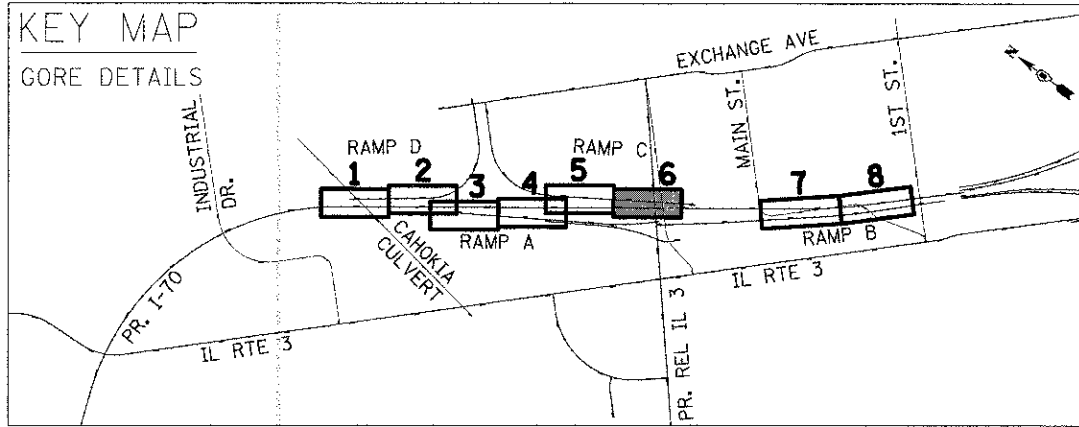
**PROPOSED I-70 AND RAMP C
GORE DETAILS**

SCALE: 1"=20' SHEET NO. 5 OF 8 SHEETS STA. 110+40 TO STA. 106+00

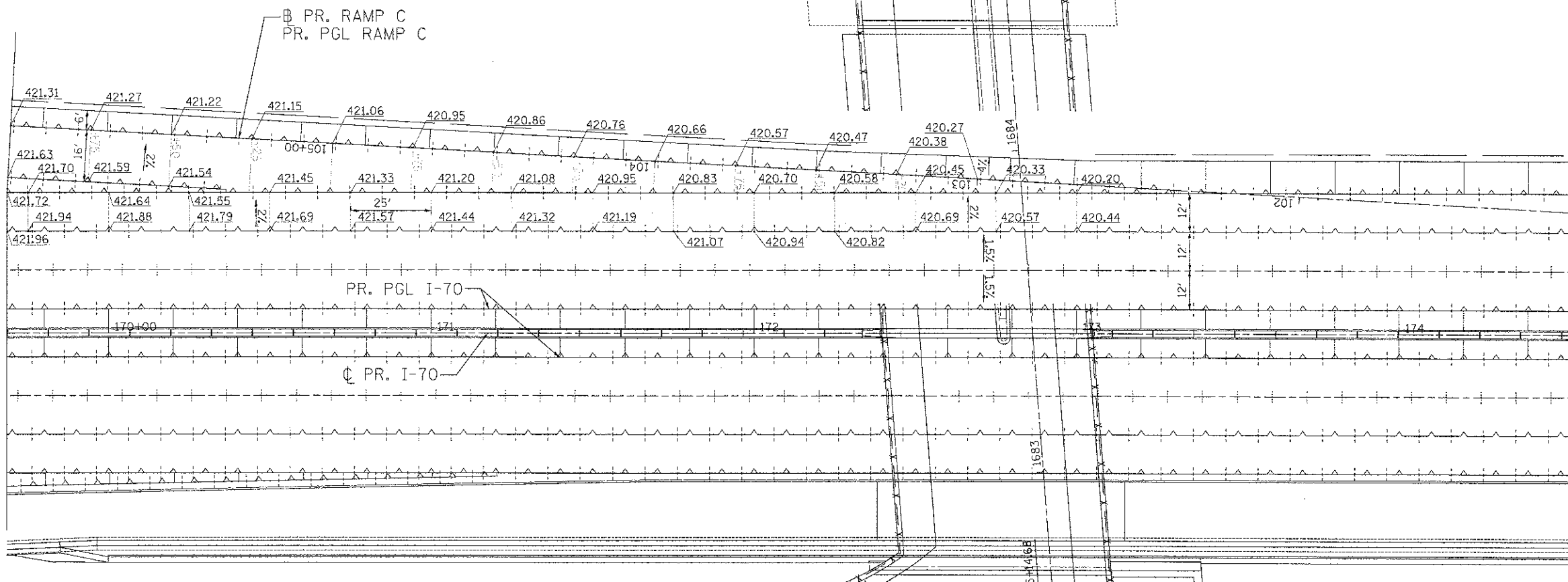
F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEETS NO. 138
FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 76C43	

KEY MAP

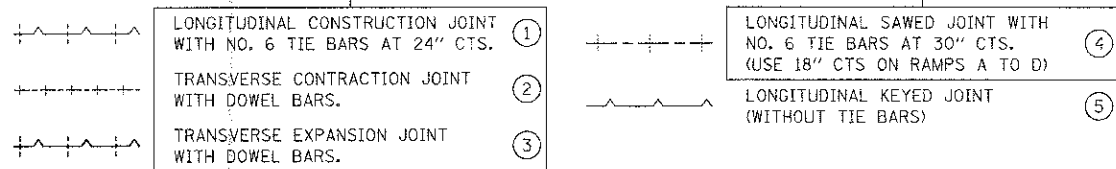
GORE DETAILS



MATCH LINE STA. 106+00 SEE SHEET 138



JOINTING LEGEND



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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

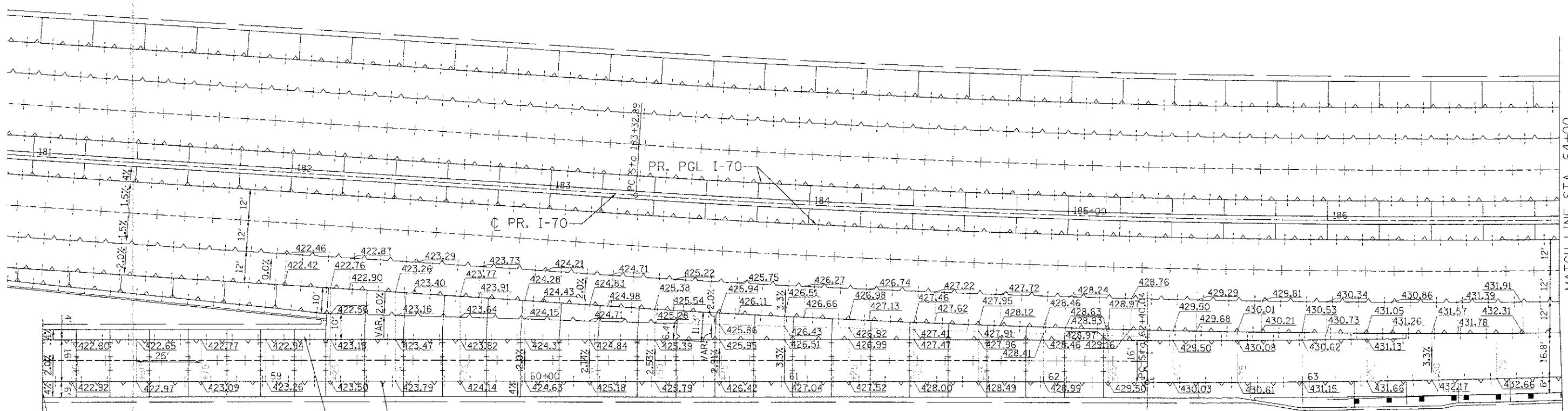
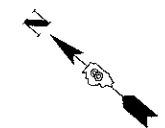
I-70 CONNECTION

PROPOSED I-70 AND RAMP C GORE DETAILS

SCALE: 1"=20' SHEET NO. 6 OF 8 SHEETS STA. 106+00 TO STA. 103+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	139
CONTRACT NO. 76C43				

FEB. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



MATCH LINE STA. 64+00
SEE SHEET 141

CONTRACT 76C43 LIMITS
STA. 58+14.00
MATCH EX.

PR. RAMP B
PR. PGL RAMP B

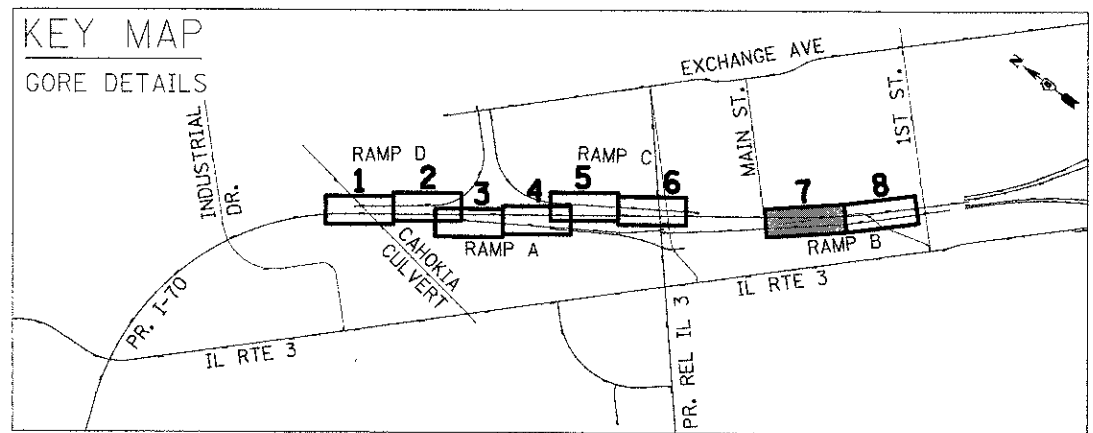
TRANSITION SHLD FROM 4.0% TO 6.0%
FROM STA. 59+00 TO STA. 59+23.21

PCC PVT CONT R PCC
11 1/4 JOINTD PVT 11 1/4
62+40.00

JOINTING LEGEND

- ① LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS.
- ② TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS.
- ③ TRANSVERSE EXPANSION JOINT WITH DOWEL BARS.
- ④ LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 30" CTS. (USE 18" CTS ON RAMPS A TO D)
- ⑤ LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)

ALL EPOXY COATED



USER NAME = #USER#	DESIGNED - SEW	REVISED -
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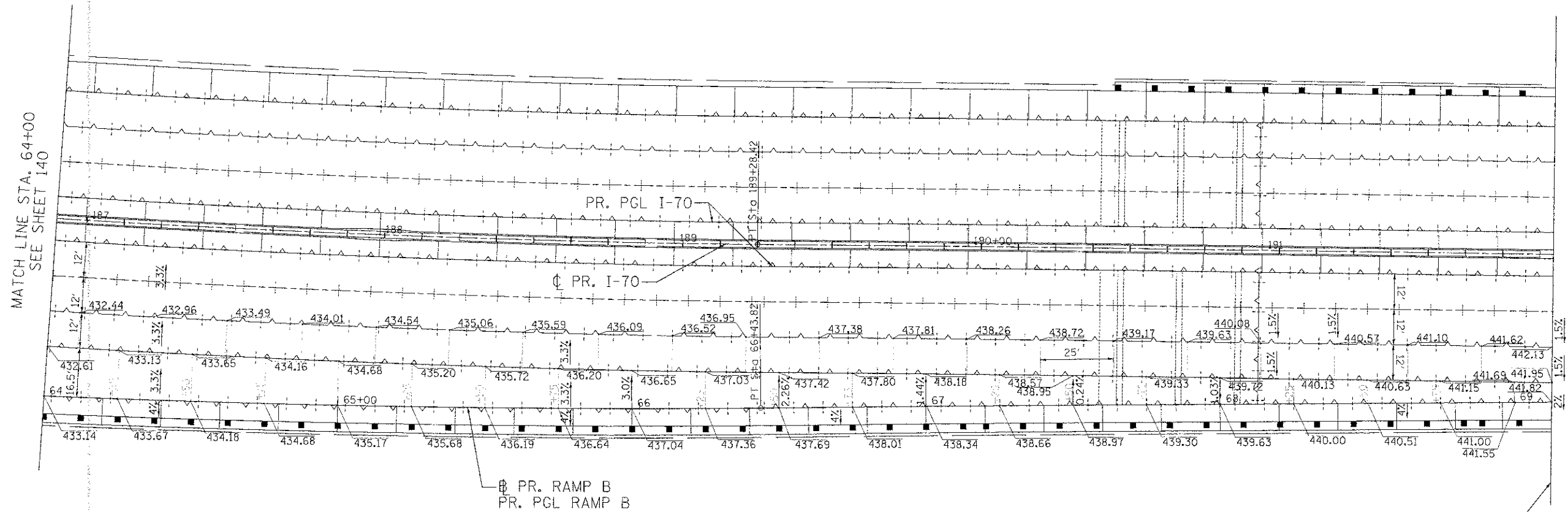
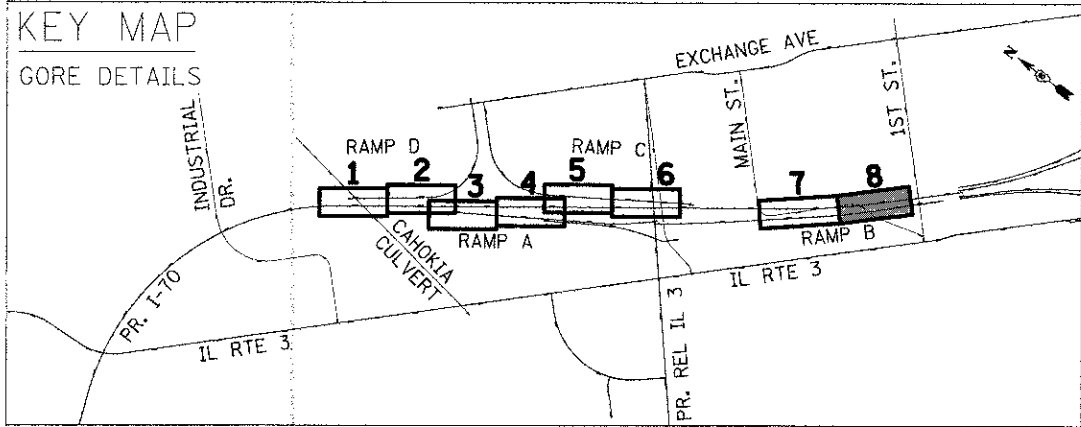
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70 AND RAMP B
GORE DETAILS

SCALE: 1/4"=20' SHEET NO. 7 OF 8 SHEETS STA. 58+14 TO STA. 64+00

F.A.P. RTE. 998	SECTION 82-IR	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 140
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	

KEY MAP
GORE DETAILS



MATCH LINE STA. 64+00
SEE SHEET 140

CONTRACT 76C43 LIMITS
STA. 191+99.00
MATCH EX.

JOINTING LEGEND

- ① LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS.
 - ② TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS.
 - ③ TRANSVERSE EXPANSION JOINT WITH DOWEL BARS.
 - ④ LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 30" CTS. (USE 18" CTS ON RAMPS A TO D)
 - ⑤ LONGITUDINAL KEYED JOINT (WITHOUT TIE BARS)
- ALL EPOXY COATED

45150101 LIN ENGINEERING LTD. 45150101 LIN ENGINEERING LTD. 45150101 LIN ENGINEERING LTD. 45150101 LIN ENGINEERING LTD. 45150101 LIN ENGINEERING LTD.



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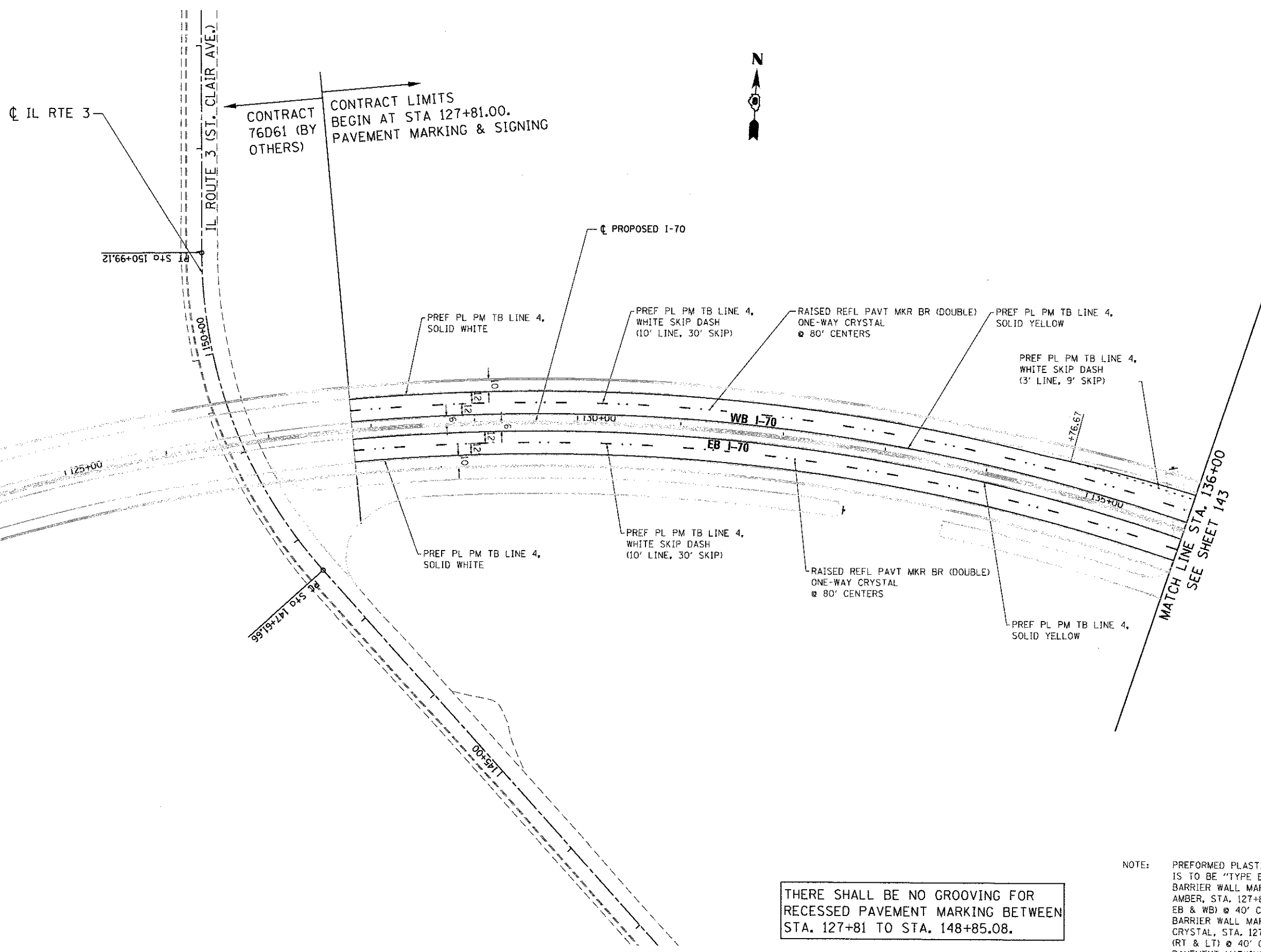
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 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

PROPOSED I-70 AND RAMP B
 GORE DETAILS
 SCALE: 1"=20'
 SHEET NO. 8 OF 8 SHEETS
 STA. 64+00 TO STA. 68+40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99B	B2-1R	ST. CLAIR	294	141
CONTRACT NO. 76C43				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



CONTRACT 76D61 (BY OTHERS)
 CONTRACT LIMITS BEGIN AT STA 127+81.00.
 PAVEMENT MARKING & SIGNING



BY OTHERS STA. 123+00 TO 123+40.13

MATCH LINE STA. 136+00
 SEE SHEET 143

THERE SHALL BE NO GROOVING FOR RECESSED PAVEMENT MARKING BETWEEN STA. 127+81 TO STA. 148+85.08.

NOTE: PREFORMED PLASTIC PAVEMENT MARKING IS TO BE "TYPE B"
 BARRIER WALL MARKERS, TYPE C, AMBER, STA. 127+81 TO STA. 140+64 (E & WB) @ 40' C-C.
 BARRIER WALL MARKERS, TYPE C, CRYSTAL, STA. 127+81 TO STA. 140+64 (RT & LT) @ 40' C-C
 PAVEMENT MARKING EDGE LINES SHOULD BE CUT AND LAPPED AT A MINIMUM OF 100' INTERVALS

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 88888-2
 88888-2
 88888-2

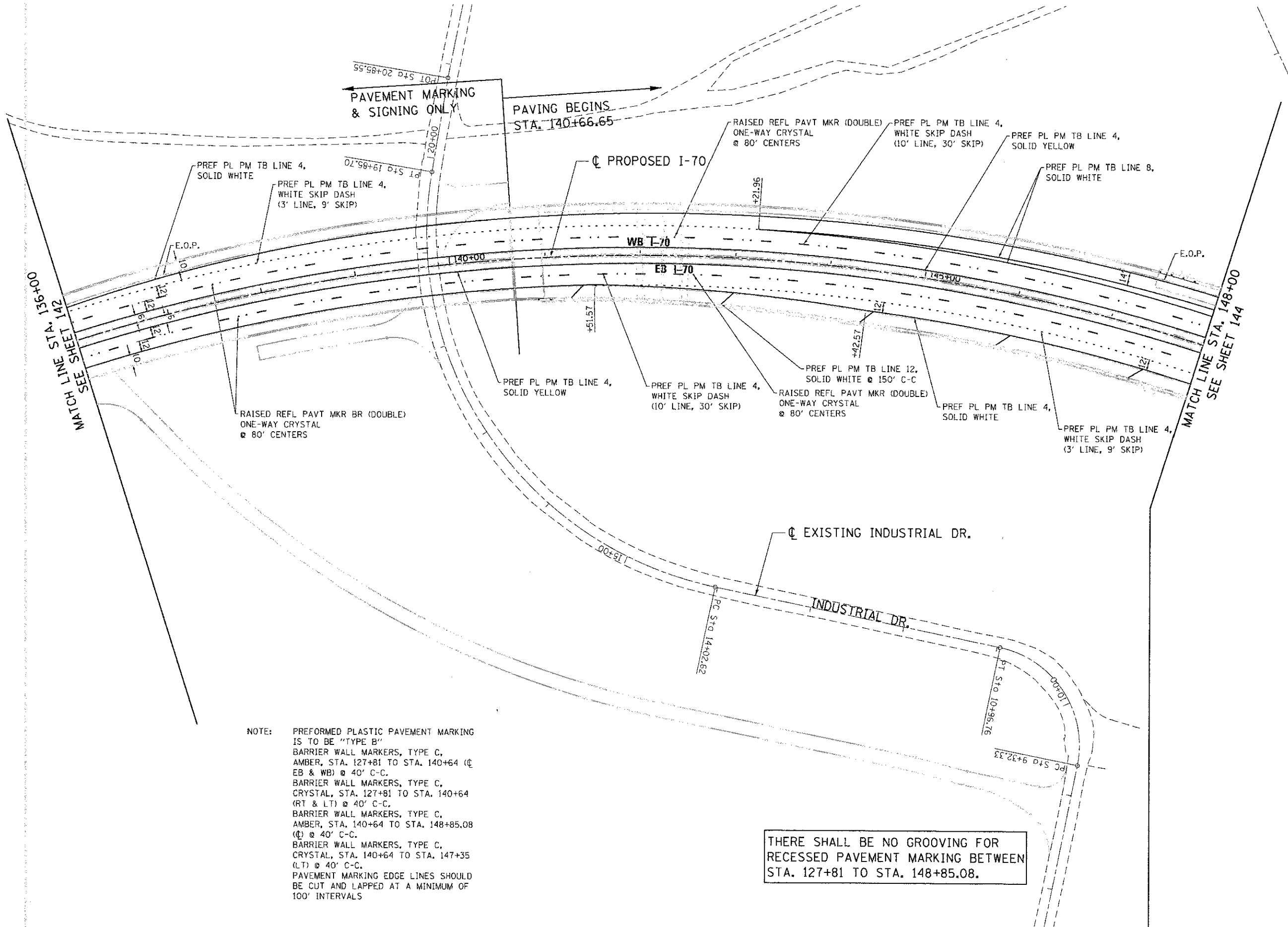


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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

PROPOSED I-70 PAVEMENT MARKING PLAN STA. 123+00 TO STA. 136+00		
SCALE: 1"=50'	SHEET NO. 1 OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	142
CONTRACT NO. 76C43				



MATCH LINE STA. 136+00
SEE SHEET 142

MATCH LINE STA. 148+00
SEE SHEET 144

PAVEMENT MARKING & SIGNING ONLY
PAVING BEGINS STA. 140+66.65

NOTE: PREFORMED PLASTIC PAVEMENT MARKING IS TO BE "TYPE B"
BARRIER WALL MARKERS, TYPE C, AMBER, STA. 127+81 TO STA. 140+64 (☉ EB & WB) @ 40' C-C.
BARRIER WALL MARKERS, TYPE C, CRYSTAL, STA. 127+81 TO STA. 140+64 (RT & LT) @ 40' C-C.
BARRIER WALL MARKERS, TYPE C, AMBER, STA. 140+64 TO STA. 148+85.08 (☉) @ 40' C-C.
BARRIER WALL MARKERS, TYPE C, CRYSTAL, STA. 140+64 TO STA. 147+35 (LT) @ 40' C-C.
PAVEMENT MARKING EDGE LINES SHOULD BE CUT AND LAPPED AT A MINIMUM OF 100' INTERVALS

THERE SHALL BE NO GROOVING FOR RECESSED PAVEMENT MARKING BETWEEN STA. 127+81 TO STA. 148+85.08.



USER NAME = #USER#	DESIGNED - SMS	REVISED -
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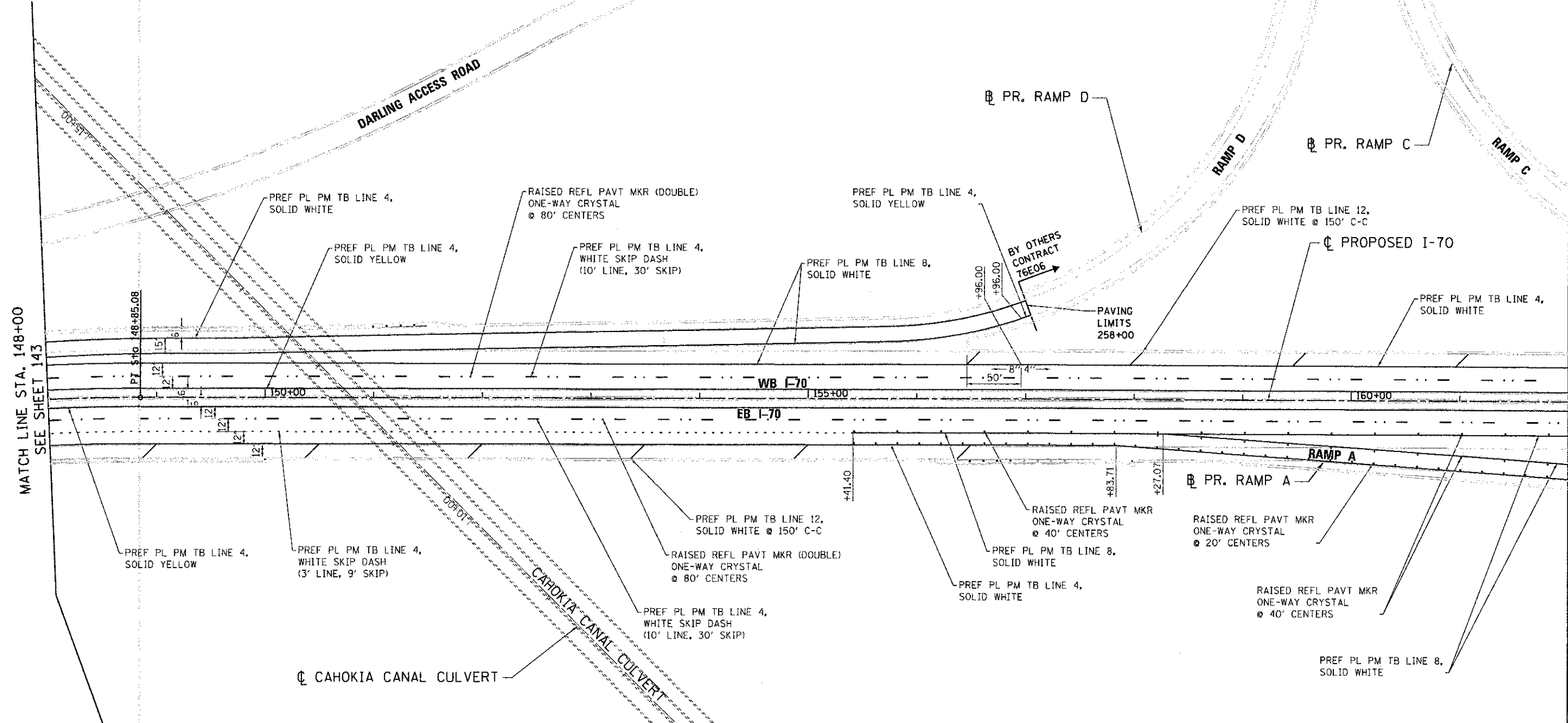
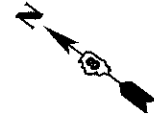
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CHECKED - LDC	REVISED -
DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED 1-70
PAVEMENT MARKING PLAN
STA. 136+00 TO STA 148+00

SCALE: 1"=50' SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 143
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT CONTRACT NO. 76C43				



NOTE: PREFORMED PLASTIC PAVEMENT MARKING IS TO BE "TYPE B". "GROOVING FOR RECESSED PAVEMENT MARKING" ON PCC SURFACE SHALL BEGIN AT STA. 148+85.08. NO GROOVING REQUIRED FOR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"

BARRIER WALL MARKERS, TYPE C, AMBER, STA. 152+85 TO STA. 155+85 (C) @ 80' C-C.
 BARRIER WALL MARKERS, TYPE C, AMBER, STA. 155+85.08 TO STA. 162+00 (C) @ 80' C-C.
 DELINEATORS, STA. 150+00 TO 155+50 (RT) @ 400' C-C. PER STD. 635001
 DELINEATORS, STA. 149+73.46 TO 156+00 (LT) @ 100' C-C. PER STD. 635001
 DELINEATORS, STA. 158+00 TO 162+82 (RT) @ 100' C-C. PER STD. 635001
 PAVEMENT MARKING EDGE LINES SHOULD BE CUT AND LAPPED AT A MINIMUM OF 100' INTERVALS

THERE SHALL BE NO GROOVING FOR RECESSED PAVEMENT MARKING BETWEEN STA. 127+81 TO STA. 148+85.08.



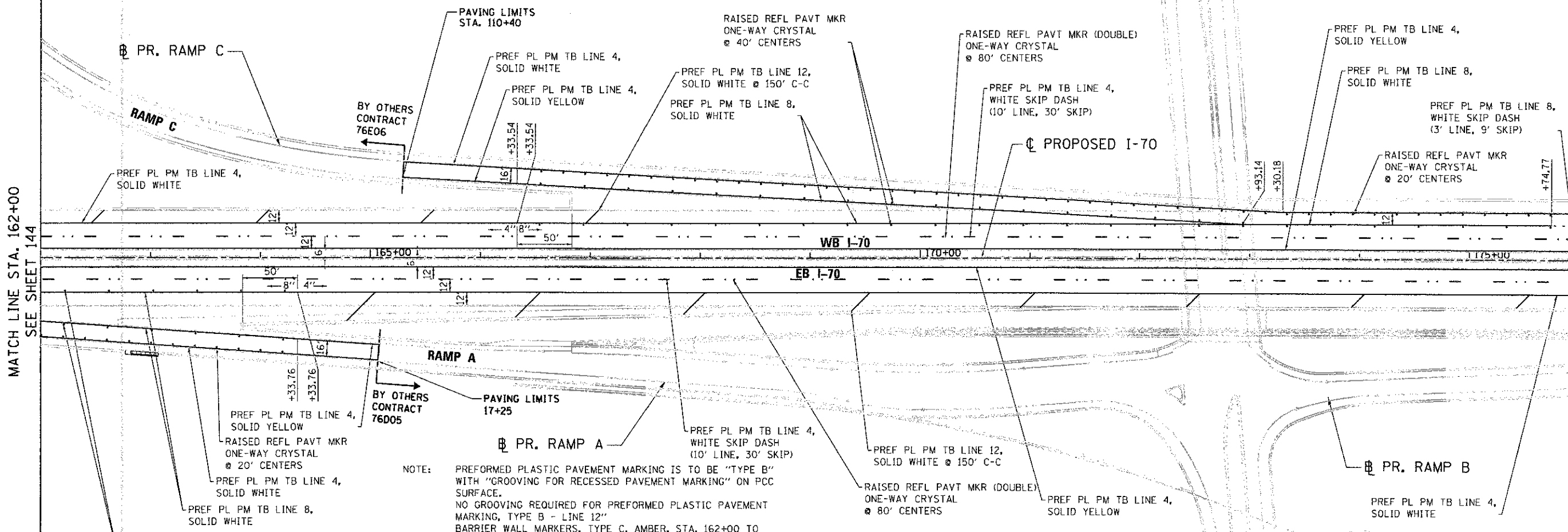
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

PROPOSED I-70
PAVEMENT MARKING PLAN
STA. 148+00 TO STA. 162+00

SCALE: 1"=50'
 SHEET NO. 3 OF 7 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-IR	ST. CLAIR	294	144
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 76C43



MATCH LINE STA. 162+00
SEE SHEET 144

MATCH LINE STA. 176+00
SEE SHEET 146

NOTE: PREFORMED PLASTIC PAVEMENT MARKING IS TO BE "TYPE B" WITH "GROOVING FOR RECESSED PAVEMENT MARKING" ON PCC SURFACE.
NO GROOVING REQUIRED FOR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"
BARRIER WALL MARKERS, TYPE C, AMBER, STA. 162+00 TO STA. 176+00 (C) @ 80' C-C.
BARRIER WALL MARKERS, TYPE C, CRYSTAL, STA. 166+83.32 TO STA. 178+25 (RT) @ 80' C-C.
DELINEATORS, STA. 158+00 TO STA. 162+82 (RT) @ 100' C-C. PER STD. 635001
DELINEATORS, STA. 157+00 TO STA. 166+83.54 (LT) @ 400' C-C. PER STD. 635001
DELINEATORS, STA. 163+81.64 TO STA. 179+92.09 (RT) @ 400' C-C. PER STD. 635001
DELINEATORS, STA. 165+31 TO STA. 174+00 (LT) @ 100' C-C. PER STD. 635001
DELINEATORS, STA. 174+00 TO STA. 189+86.84 (LT) @ 400' C-C. PER STD. 635001
PROVIDE A WHITE DELINEATOR REFLECTOR ON THE SIGN SUPPORT POST ON THE MAINLINE SIDE AND A YELLOW DELINEATOR REFLECTOR ON THE SIGN SUPPORT POST ON THE EXIT SIDE OF THE EXIT GORE SIGNS FOR RAMP A AND C.
SEE SIGNING PLAN FOR LOCATIONS.
PAVEMENT MARKING EDGE LINES SHOULD BE CUT AND LAPPED AT A MINIMUM OF 100' INTERVALS



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PLDT DATE = #DATE#	DATE - 06/29/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED I-70
PAVEMENT MARKING PLAN
STA. 162+00 TO STA. 176+00**

SCALE: 1"=50' SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 145
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NOTE: PREFORMED PLASTIC PAVEMENT MARKING IS TO BE "TYPE B" WITH "GROOVING FOR RECESSED PAVEMENT MARKING" ON PCC SURFACE. NO GROOVING REQUIRED FOR PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"

BARRIER WALL MARKERS, TYPE C, CRYSTAL, STA. 166+83.32 TO STA. 178+25 (RT) @ 80' C-C.

BARRIER WALL MARKERS, TYPE C, AMBER, STA. 176+00 TO STA. 183+32.89 (C) @ 80' C-C.

BARRIER WALL MARKERS, TYPE C, AMBER, STA. 183+32.89 TO STA. 189+28.42 (C) @ 40' C-C.

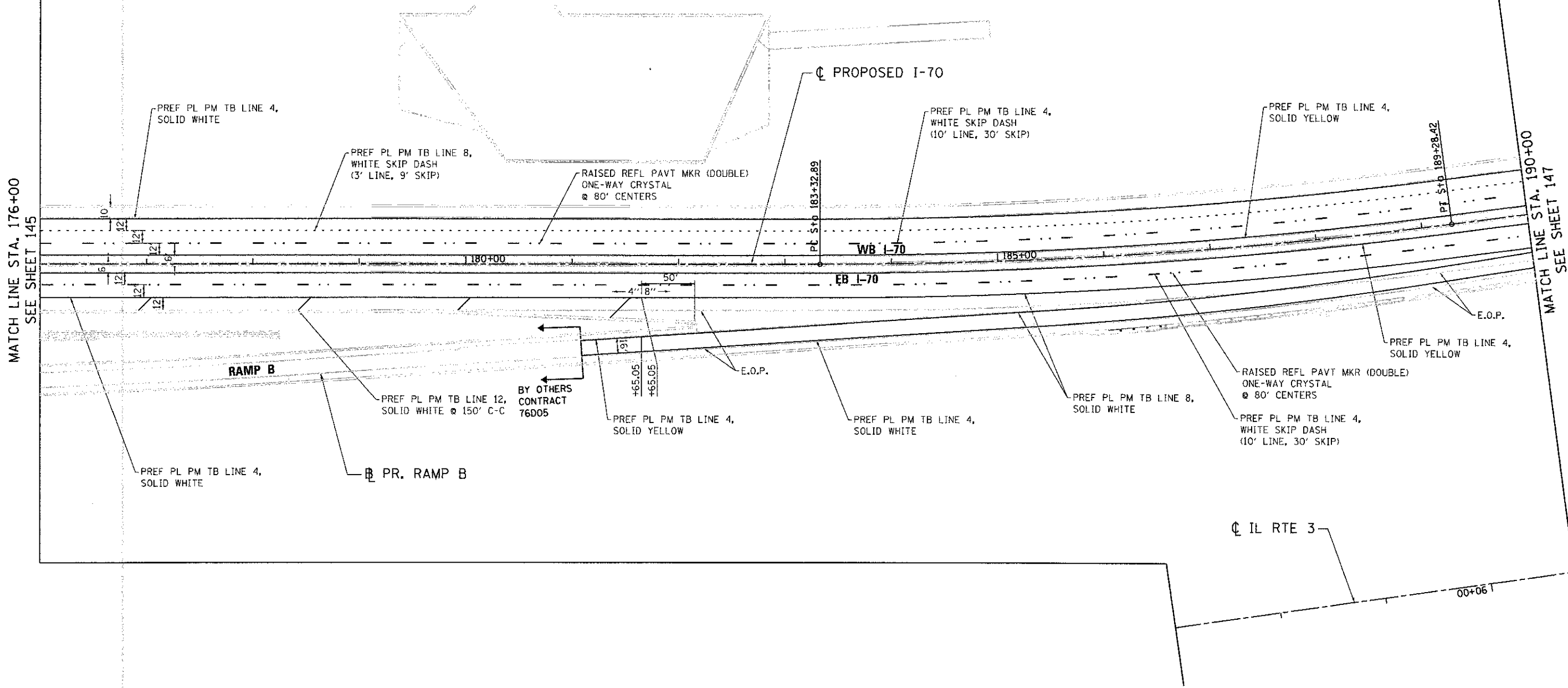
BARRIER WALL MARKERS, TYPE C, AMBER, STA. 189+28.42 TO STA. 190+00 (C) @ 80' C-C.

DELINEATORS, STA. 163+81.64 TO STA. 179+92.09 (RT) @ 400' C-C. PER STD. 635001

DELINEATORS, STA. 174+00 TO STA. 189+86.84 (LT) @ 400' C-C. PER STD. 635001

DELINEATORS, STA. 181+10 TO STA. 186+00 (RT) @ 100' C-C. PER STD. 635001

PAVEMENT MARKING EDGE LINES SHOULD BE CUT AND LAPPED AT A MINIMUM OF 100' INTERVALS



MATCH LINE STA. 176+00
SEE SHEET 145

MATCH LINE STA. 190+00
SEE SHEET 147

KASKASKIA ENGINEERING GROUP, LLC
PROJECT: I-70 CONNECTION
DRAWN: JLT
CHECKED: LDC
DATE: 06/29/12



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DEPARTMENT OF TRANSPORTATION	DRAWN - JLT	REVISED -
I-70 CONNECTION	CHECKED - LDC	REVISED -
	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS	DESIGNED - SMS	REVISED -
DEPARTMENT OF TRANSPORTATION	DRAWN - JLT	REVISED -
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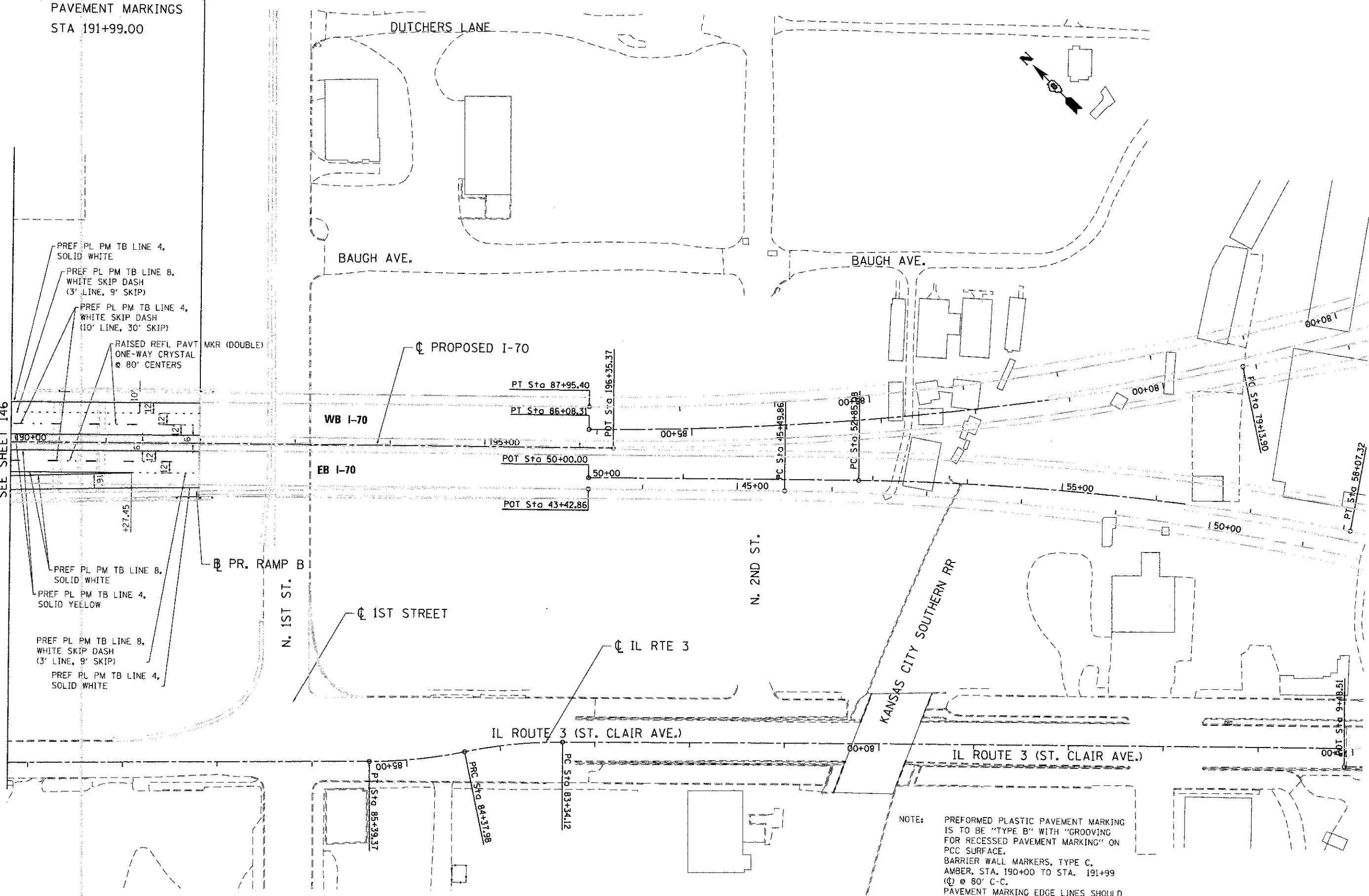
PROPOSED 1-70 PAVEMENT MARKING PLAN STA. 176+00 TO STA. 190+00	
SCALE: 1"=50'	SHEET NO. 5 OF 7 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-IR	ST. CLAIR	294	146
CONTRACT NO. 76C43				

LIMITS OF I-70
PAVEMENT MARKINGS
STA 191+99.00

SEE ADDITIONAL PAVEMENT MARKING SHEETS FOR PAVEMENT MARKINGS SOUTH OF STA. 191+99

MATCH LINE STA. 190+00
SEE SHEET 146



PREF PL PM TB LINE 4,
SOLID WHITE
PREF PL PM TB LINE 8,
WHITE SKIP DASH
(3' LINE, 9' SKIP)
PREF PL PM TB LINE 4,
WHITE SKIP DASH
(10' LINE, 30' SKIP)
RAISED REFL PAVT MKR (DOUBLE)
ONE-WAY CRYSTAL
@ 80' CENTERS

PREF PL PM TB LINE 8,
SOLID WHITE
PREF PL PM TB LINE 4,
SOLID YELLOW
PREF PL PM TB LINE 8,
WHITE SKIP DASH
(3' LINE, 9' SKIP)
PREF PL PM TB LINE 4,
SOLID WHITE

NOTE: PREFORMED PLASTIC PAVEMENT MARKING IS TO BE "TYPE B" WITH "GROOVING FOR RECESSED PAVEMENT MARKING" ON PCC SURFACE. BARRIER WALL MARKERS, TYPE C, AMBER, STA. 190+00 TO STA. 191+99 @ 80' C-C. PAVEMENT MARKING EDGE LINES SHOULD BE CUT AND LAPPED AT A MINIMUM OF 100' INTERVALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70
PAVEMENT MARKING PLAN
STA. 190+00 TO 191+99

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PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

SCALE: 1"=50' SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 147
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

Kaskaskia Engineering Group, LLC

PREFORMED PLASTIC PAVEMENT MARKING,
TYPE B - LINE 4"

TYPE	DESC
4SW	4" SOLID WHITE
4SY	4" SOLID YELLOW
4SDW	4" SKIP-DASH WHITE

ALIGNMENT	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	TYPE	LENGTH (FT)
PR I-70	127+81.00	31.50'	LT	156+99.81	91.56'	LT	4SW	2,965
PR I-70	127+81.00	19.50'	LT	191+99.00	19.50'	LT	4SDW	1,610
PR I-70	127+81.00	7.50'	LT	191+99.00	7.50'	LT	4SY	6,427
PR I-70	134+76.67	31.50'	LT	143+21.96	31.50'	LT	4SDW	215
PR I-70	141+51.57	31.50'	RT	155+41.40	31.50'	RT	4SDW	345
PR I-70	156+96.00	31.50'	LT	166+33.54	31.50'	LT	4SW	938
PR I-70	156+96.00	74.31'	LT	157+04.70	77.44'	LT	4SY	10
PR I-70	165+30.18	88.12'	LT	191+99.00	43.50'	LT	4SW	2,665
PR I-70	165+29.42	73.14'	LT	166+33.54	67.46'	LT	4SY	105
PR I-70	127+81.00	7.50'	RT	191+99.00	7.50'	RT	4SY	6,410
PR I-70	127+81.00	19.50'	RT	191+99.00	19.50'	RT	4SDW	1,600
PR I-70	127+81.00	31.50'	RT	165+06.94	93.08'	RT	4SW	3,692
PR I-70	164+33.76	31.50'	RT	181+65.05	31.50'	RT	4SW	1,732
PR I-70	164+33.76	73.92'	RT	165+07.92	79.11'	RT	4SY	75
PR I-70	181+08.39	70.55'	RT	181+65.05	66.88'	RT	4SY	57
PR I-70	181+09.29	85.52'	RT	191+99.00	47.69'	RT	4SW	1,099
TOTAL								29,945

GROOVING FOR RECESSED PAVEMENT MARKING 5"

TYPE	DESC
4SW	4" SOLID WHITE
4SY	4" SOLID YELLOW
4SDW	4" SKIP-DASH WHITE

ALIGNMENT	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	TYPE	LENGTH (FT)
PR I-70	148+85.08	55.22'	LT	156+99.81	91.56'	LT	4SW	818
PR I-70	148+85.08	19.50'	LT	191+99.00	19.50'	LT	4SDW	1,078
PR I-70	148+85.08	7.50'	LT	191+99.00	7.50'	LT	4SY	4,313
PR I-70	156+96.00	31.50'	LT	166+33.54	31.50'	LT	4SW	938
PR I-70	156+96.00	74.31'	LT	157+04.70	77.44'	LT	4SY	10
PR I-70	165+30.18	88.12'	LT	191+99.00	43.50'	LT	4SW	2,665
PR I-70	165+29.42	73.14'	LT	166+33.54	67.46'	LT	4SY	105
PR I-70	148+85.08	31.50'	RT	155+41.40	31.50'	RT	4SDW	165
PR I-70	148+85.08	7.50'	RT	191+99.00	7.50'	RT	4SY	4,316
PR I-70	148+85.08	19.50'	RT	191+99.00	19.50'	RT	4SDW	1,080
PR I-70	148+85.08	42.50'	RT	165+06.94	93.08'	RT	4SW	1,624
PR I-70	164+33.76	31.50'	RT	181+65.05	31.50'	RT	4SW	1,732
PR I-70	164+33.76	73.92'	RT	165+07.92	79.11'	RT	4SY	75
PR I-70	181+08.39	70.55'	RT	181+65.05	66.88'	RT	4SY	57
PR I-70	181+09.29	86.52'	RT	191+99.00	47.69'	RT	4SW	1,099
TOTAL								20,075

PREFORMED PLASTIC PAVEMENT MARKING,
TYPE B - LINE 8"

TYPE	DESC
8SW	8" SOLID WHITE
8SDW	8" SKIP-DASH WHITE

ALIGNMENT	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	TYPE	LENGTH (FT)
PR I-70	143+21.96	LT	31.50'	156+96.00	74.31'	LT	8SW	1,387
PR I-70	143+21.96	LT	31.50'	156+96.00	31.50'	LT	8SW	1,384
PR I-70	166+33.54	LT	67.46'	172+93.14	31.50'	LT	8SW	661
PR I-70	166+33.54	LT	31.50'	175+74.77	31.50'	LT	8SW	942
PR I-70	175+74.77	LT	31.50'	191+99.00	31.50'	LT	8SDW	406
PR I-70	155+41.40	RT	31.50'	164+33.76	31.50'	RT	8SW	893
PR I-70	158+27.07	RT	31.50'	164+33.76	73.92'	RT	8SW	609
PR I-70	181+65.05	RT	31.50'	191+27.45	31.50'	RT	8SW	967
PR I-70	181+65.05	RT	67.88'	191+27.45	31.50'	RT	8SW	970
PR I-70	191+27.45	RT	31.50'	191+99.00	31.50'	RT	8SDW	18
TOTAL								8,237

GROOVING FOR RECESSED PAVEMENT MARKING 9"

TYPE	DESC
8SW	8" SOLID WHITE
8SDW	8" SKIP-DASH WHITE

ALIGNMENT	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	TYPE	LENGTH (FT)
PR I-70	148+85.08	LT	40.22'	156+96.00	74.31'	LT	8SW	814
PR I-70	148+85.08	LT	31.50'	156+96.00	31.50'	LT	8SW	811
PR I-70	166+33.54	LT	67.46'	172+93.14	31.50'	LT	8SW	661
PR I-70	166+33.54	LT	31.50'	175+74.77	31.50'	LT	8SW	942
PR I-70	175+74.77	LT	31.50'	191+99.00	31.50'	LT	8SDW	406
PR I-70	155+41.40	RT	31.50'	164+33.76	31.50'	RT	8SW	893
PR I-70	158+27.07	RT	31.50'	164+33.76	73.92'	RT	8SW	609
PR I-70	181+65.05	RT	31.50'	191+27.45	31.50'	RT	8SW	967
PR I-70	181+65.05	RT	67.88'	191+27.45	31.50'	RT	8SW	970
PR I-70	191+27.45	RT	31.50'	191+99.00	31.50'	RT	8SDW	18
TOTAL								7,091

PREFORMED PLASTIC PAVEMENT MARKING,
TYPE B - LINE 12"

TYPE	DESC
12SW	12" SOLID WHITE

ALIGNMENT	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	TYPE	LENGTH (FT)
PR I-70	141+39.59	31.50'	RT	156+50.00	43.50'	RT	12SW	202
PR I-70	156+45.93	31.50'	LT	166+95.93	31.50'	LT	12SW	136
PR I-70	165+04.55	31.50'	RT	181+54.55	31.50'	RT	12SW	268
TOTAL								606

RAISED REFLECTIVE PAVEMENT MARKER

TYPE	DESC
OWC	ONE WAY CRYSTAL
OWCB	ONE WAY CRYSTAL BRIDGE

ALIGNMENT	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	TYPE	EACH
PR I-70	127+81.00	19.50'	LT	140+67.00	19.50'	LT	OWCB	33
PR I-70	140+67.00	19.50'	LT	191+99.00	19.50'	LT	OWC	129
PR I-70	166+33.54	31.50'	LT	172+93.14	31.50'	LT	OWC	17
PR I-70	166+33.54	67.46'	LT	172+93.14	31.50'	LT	OWC	17
PR I-70	166+33.54	80.85'	LT	175+74.77	43.50'	LT	OWC	47
PR I-70	172+93.14	31.50'	LT	175+74.77	31.50'	LT	OWC	7
PR I-70	127+81.00	19.50'	RT	140+67.00	19.50'	RT	OWCB	33
PR I-70	140+67.00	19.50'	RT	191+99.00	19.50'	RT	OWC	129
PR I-70	155+41.40	31.50'	RT	158+27.07	31.50'	RT	OWC	8
PR I-70	155+41.40	42.50'	RT	164+33.76	87.96'	RT	OWC	45
PR I-70	158+27.07	31.50'	RT	164+33.76	31.50'	RT	OWC	15
PR I-70	158+27.07	31.50'	RT	164+33.76	73.92'	RT	OWC	16
TOTAL								496

Kaskaskia Engineering Group, LLC



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PLOT DATE = #DATE#

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DRAWN - JLT
CHECKED - LDC
DATE - 06/29/12

REVISED -
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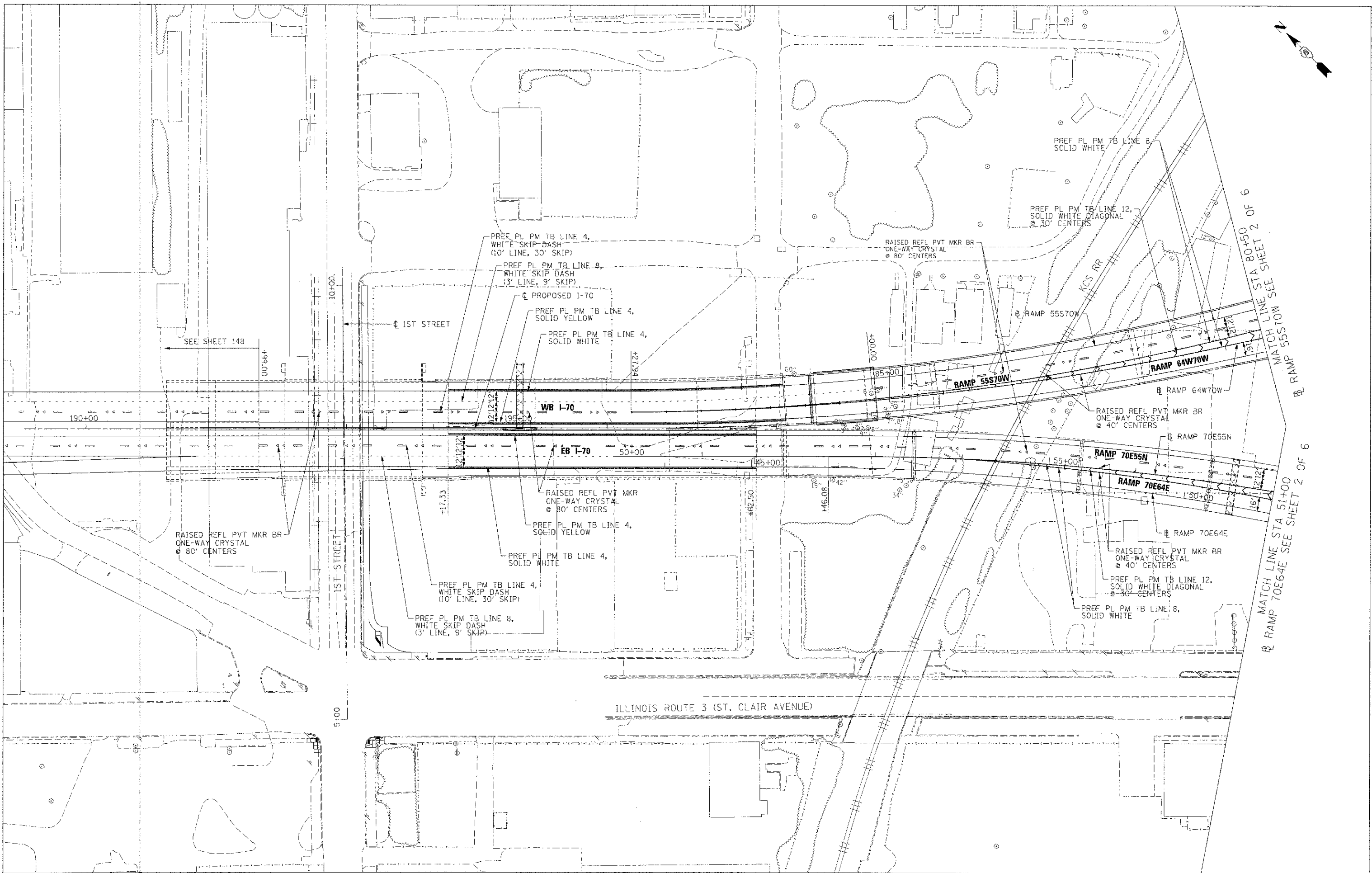
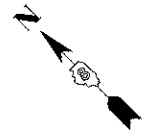
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70
PAVEMENT MARKING PLAN
SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	148
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 76C43

SCALE: 1"=1' SHEET NO. 7 OF 7 SHEETS STA. TO STA.



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 DATE 06/29/12

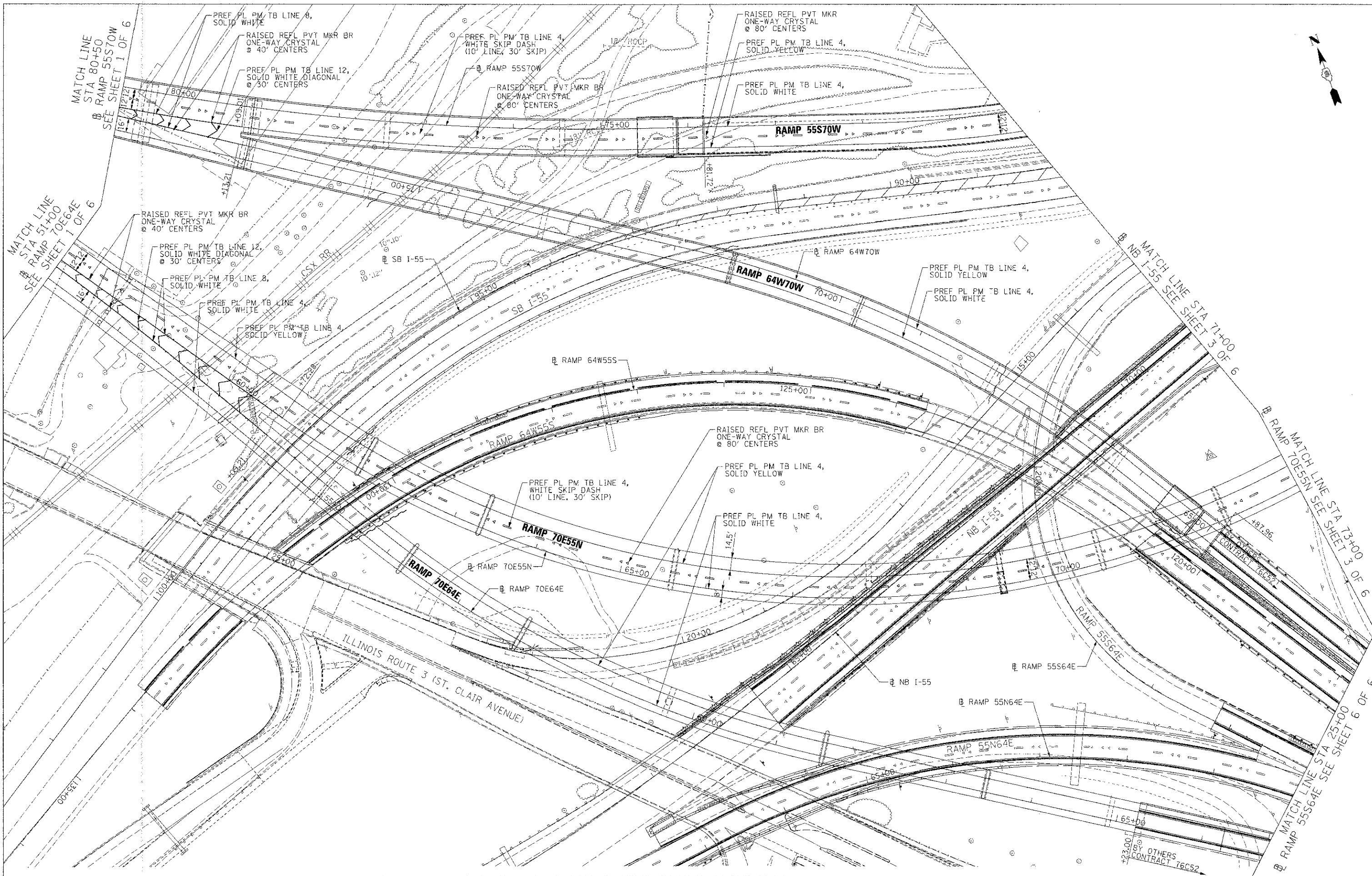
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED PAVEMENT MARKING PLANS

SCALE: 1"=50' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	149
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME = D8173-76C43-SHT-PMK-B2.dgn
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DESIGNED BY
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 CHECKED BY
 DATE 06/29/12

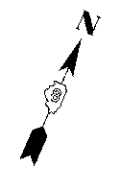
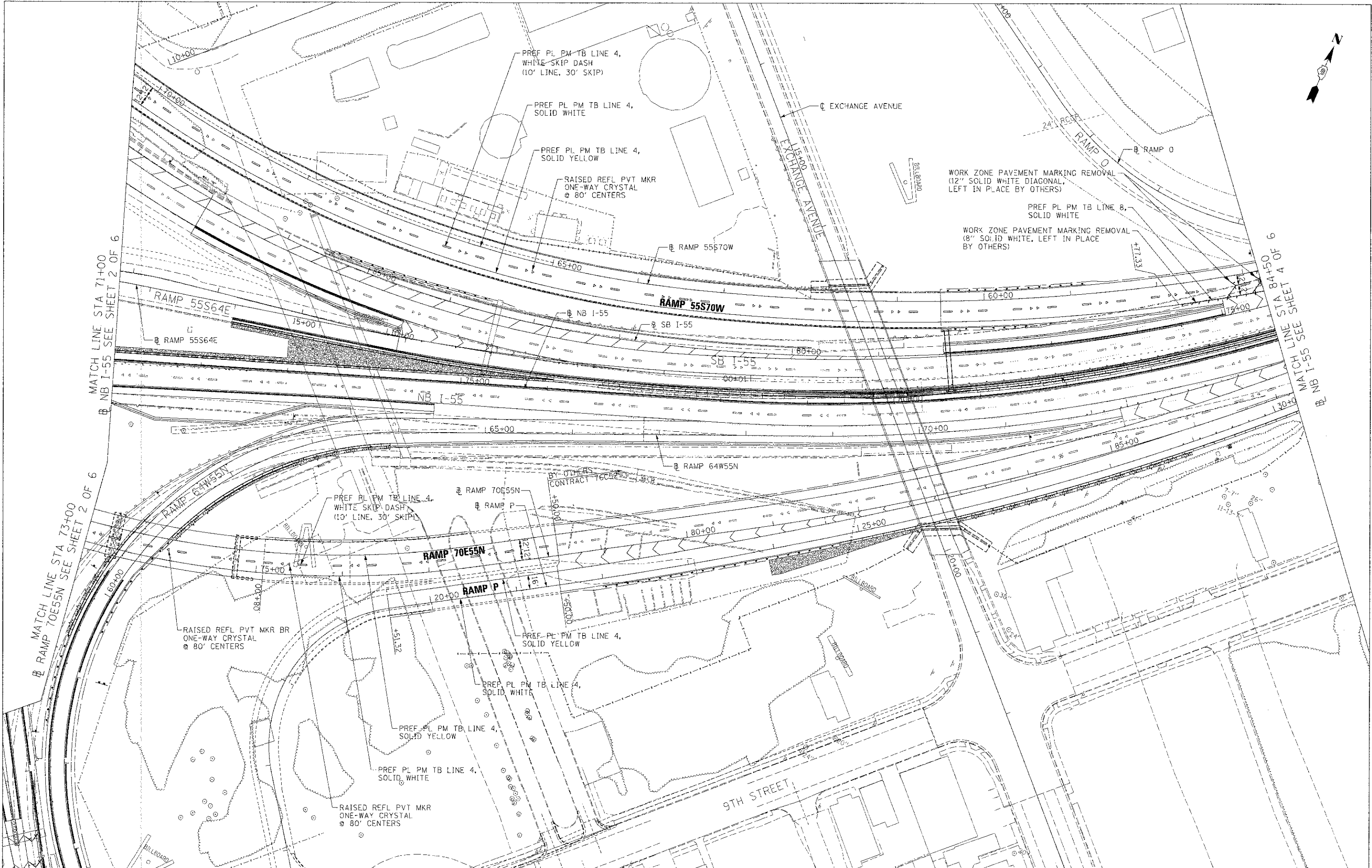
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED PAVEMENT MARKING PLANS

SCALE: 1"=50'
 SHEET NO. 2 OF 6 SHEETS
 S.A. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	150
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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 CHECKED DBM
 DATE 06/29/12

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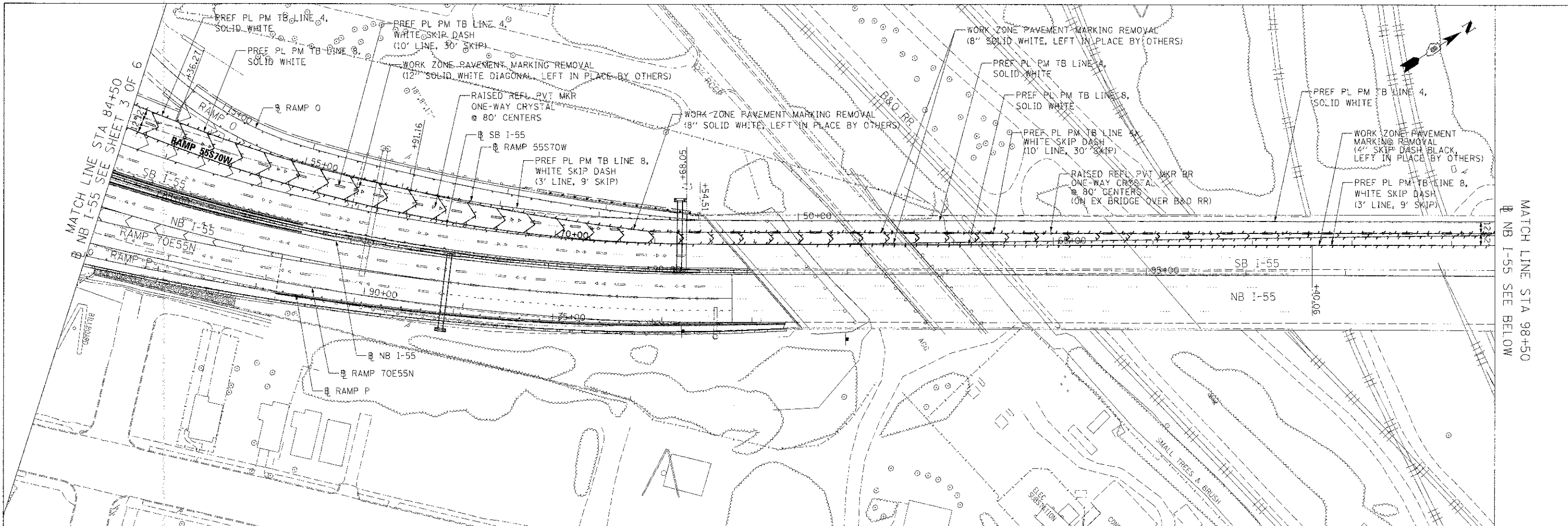
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED PAVEMENT MARKING PLANS
 SCALE: 1"=50'
 SHEET NO. 3 OF 6 SHEETS STA. TO STA.

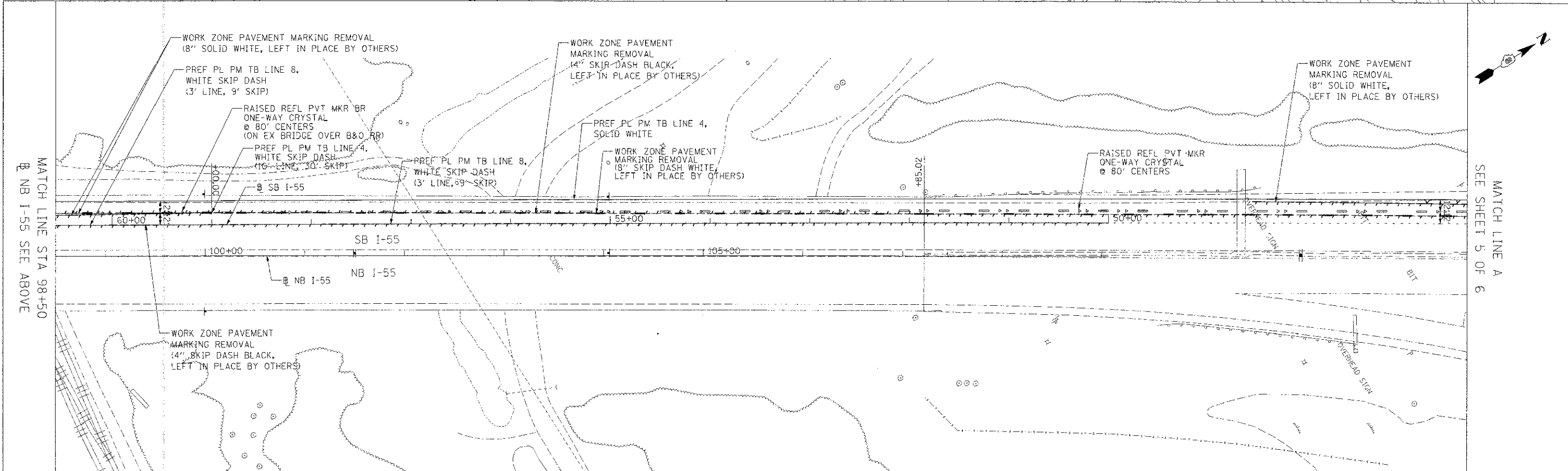
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
82-1-RIA, 82-1-R(B)	ST. CLAIR	294	151	

CONTRACT NO. 76C52
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 76C52
 ILLINOIS FED. AID PROJECT

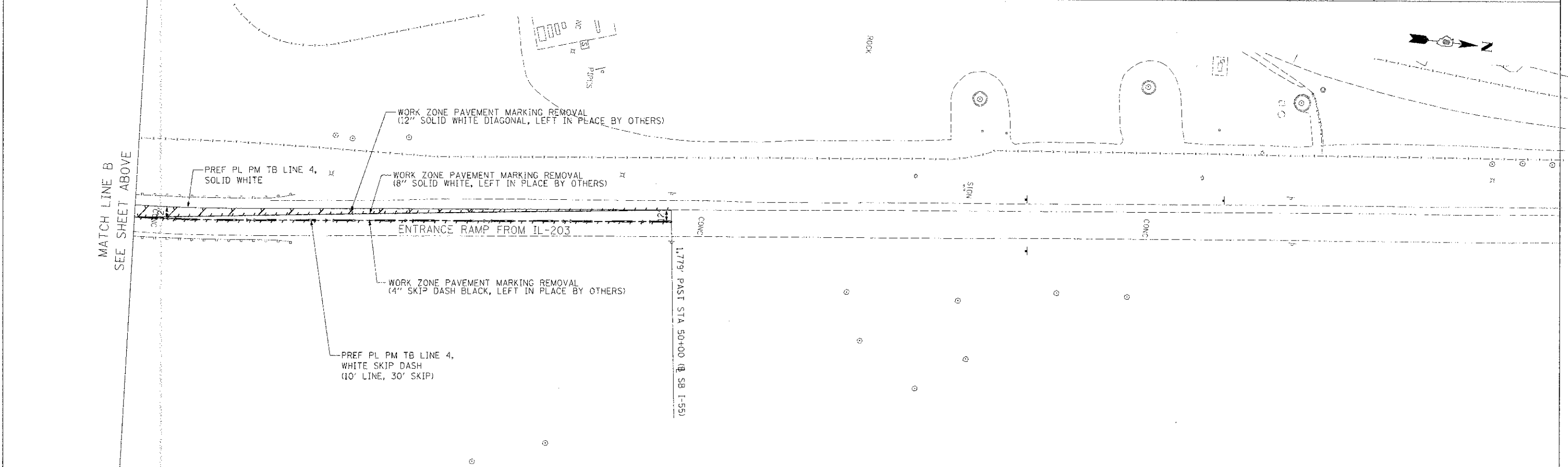
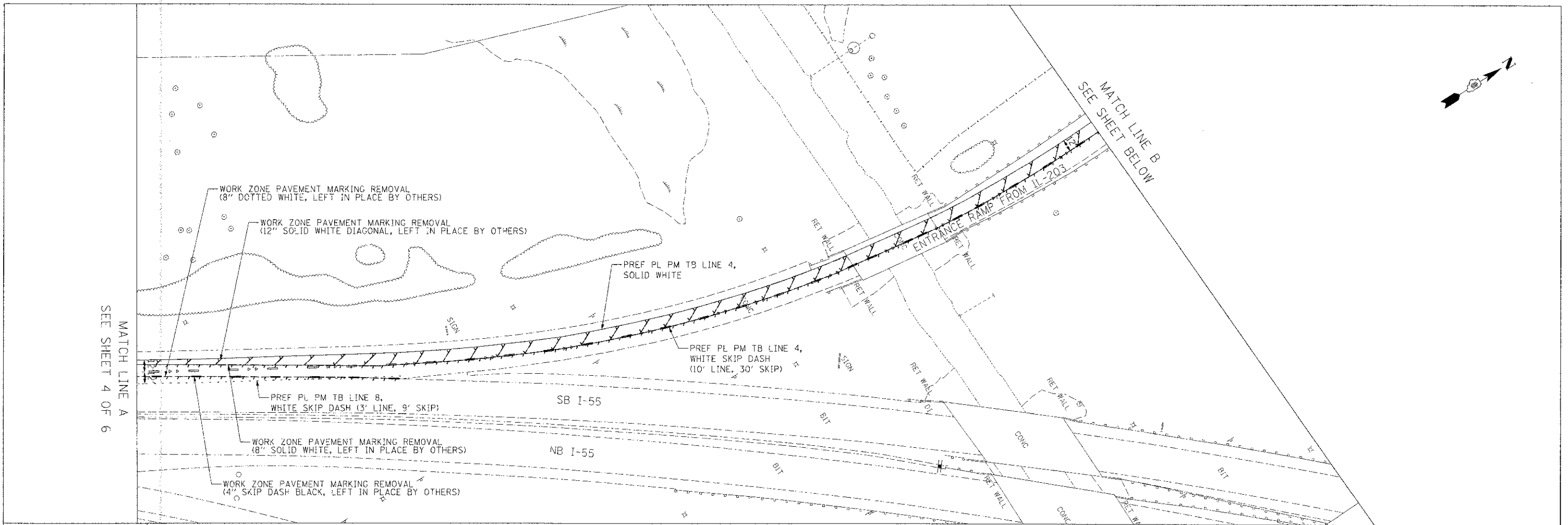


MATCH LINE STA 98+50
 NB I-55 SEE BELOW



MATCH LINE A
 SEE SHEET 5 OF 6

FILE NAME DBTAI-76C43-SHT-1PK-04.dgn	USER NAME & USER#	DESIGNED BY DRAWN CHECKED DATE	REVISIONS REVISOR DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PROPOSED PAVEMENT MARKING PLANS		F.A.P. 1 RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 152
SCALE: 1"=50' SHEET NO. 4 OF 6 SHEETS STA. TO STA.								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 76C43				



FILE NAME = DBTR1-76C43-SHT-PMK-02.dgn
 USER NAME = BUSLH8
 PLOT SCALE = 50.0000 1/1
 PLOT DATE = 5/27/2012

DESIGNED OP
 DRAWN OP
 CHECKED OBM
 DATE 06/29/12

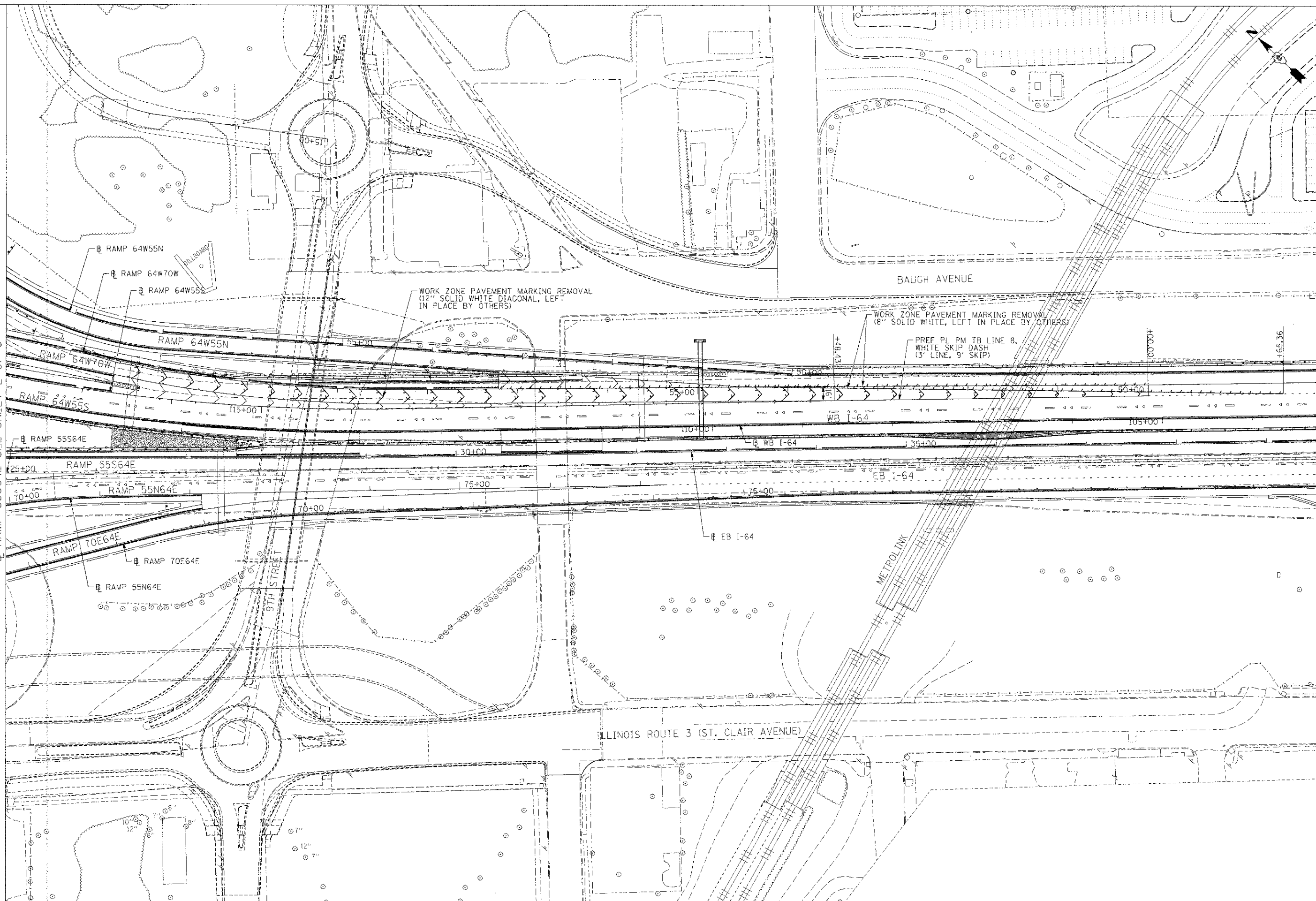
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED PAVEMENT MARKING PLANS
 SCALE: 1"=50'
 SHEET NO. 5 OF 6 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	B2-1R	ST. CLAIR	294	153
CONTRACT NO. 76C43			ILLINOIS FED. AID PROJECT	

MATCH LINE STA 25+00
 RAMP 55S64E SEE SHEET 2 OF 6



FILE NAME :
 DBTR1-76C43-SHT-PMK-06.dgn

USER NAME : SUSEP
 PLOT SCALE : 50.0000' / 1" =
 PLOT DATE : 6/27/2012

DESIGNED : DP
 DRAWN : DP
 CHECKED : DBM
 DATE : 06/29/12

REVISED : -
 REVISED : -
 REVISED : -
 REVISED : -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED PAVEMENT MARKING PLANS

SCALE: 1"=50' SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	154
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 76C43

PAVEMENT MARKING SCHEDULE

SHEET	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 8"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	GROOVING FOR RECESSED PAVEMENT MARKING 13"
	SQ FT	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
1	0	26	88	5,178	2,690	200	5,178	2,690	200
2	0	12	78	10,408	907	274	10,408	907	274
3	138	46	8	4,595	80	0	4,595	80	0
4	3,554	32	44	2,974	1,920	0	2,974	1,920	0
5	1,809	42	2	1,947	67	0	1,947	67	0
6	1,627	0	0	0	88	0	0	88	0
TOTAL	7,128	158	220	25,102	5,752	474	25,102	5,752	474

FILE NAME = D8TRI-76C43-SHT-PHK-06.dgn

USER NAME = jmsrnc

DESIGNED CP

REVISED -

DRAWN CP

REVISED -

PLOT SCALE = 20,0000 1/4 in.

CHECKED DBM

REVISED -

PLOT DATE = 7/11/2012

DATE 06/29/12

REVISED -

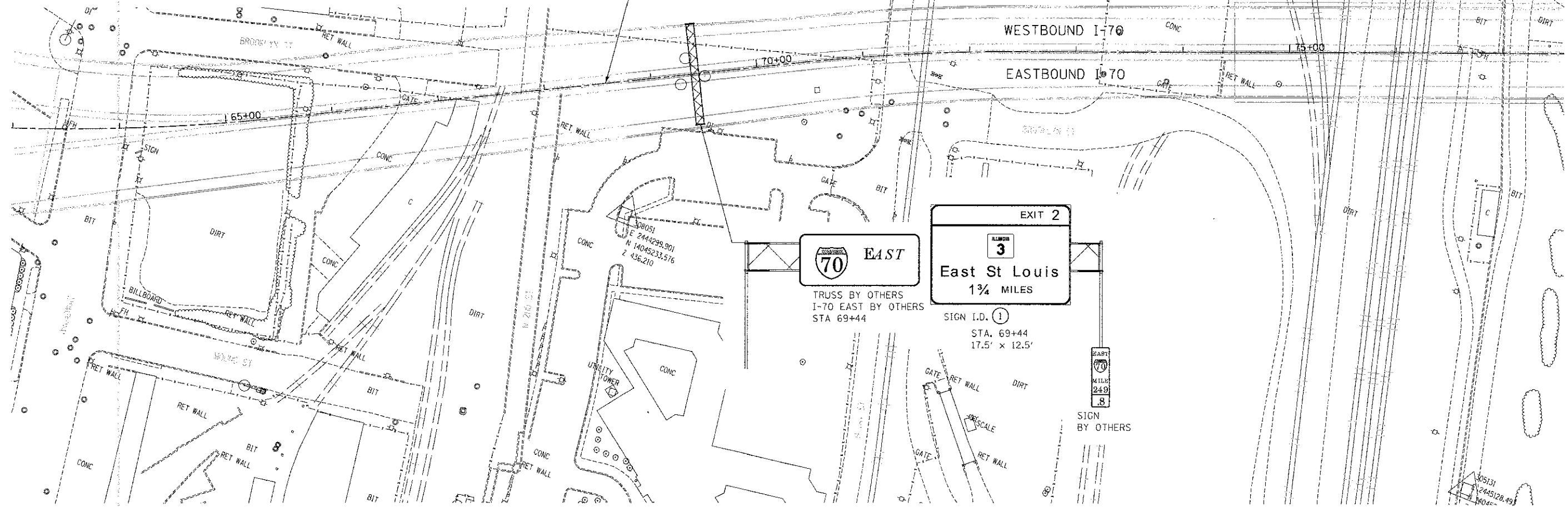
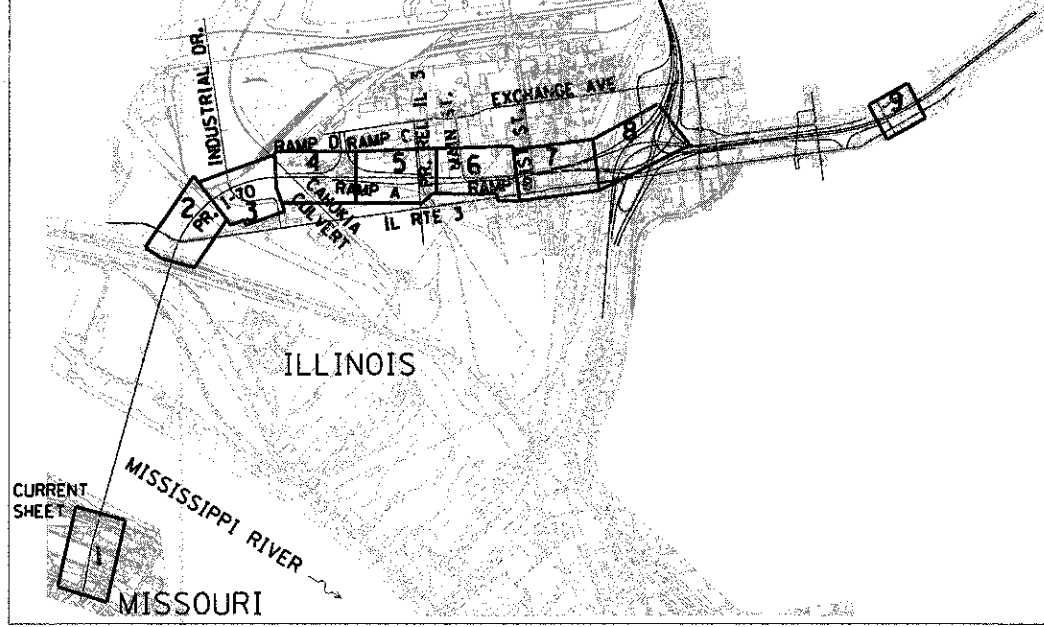
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING SCHEDULE

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	155
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76C43	

**KEY MAP
FOR SIGNING PLANS**



SIGNING LEGEND

- PROPOSED SIGN TRUSS
- PROPOSED CANTILEVER SIGN FOUNDATION
- PROPOSED GROUND/ BRIDGE MOUNTED SIGN
- EXISTING GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD AND PER DETAILS.
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. COORDINATE SIZE AND LOCATION OF SIGN MOUNTING HOLES WITH SIGN PANEL DETAILS.

FILE NAME =
#FILE#

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

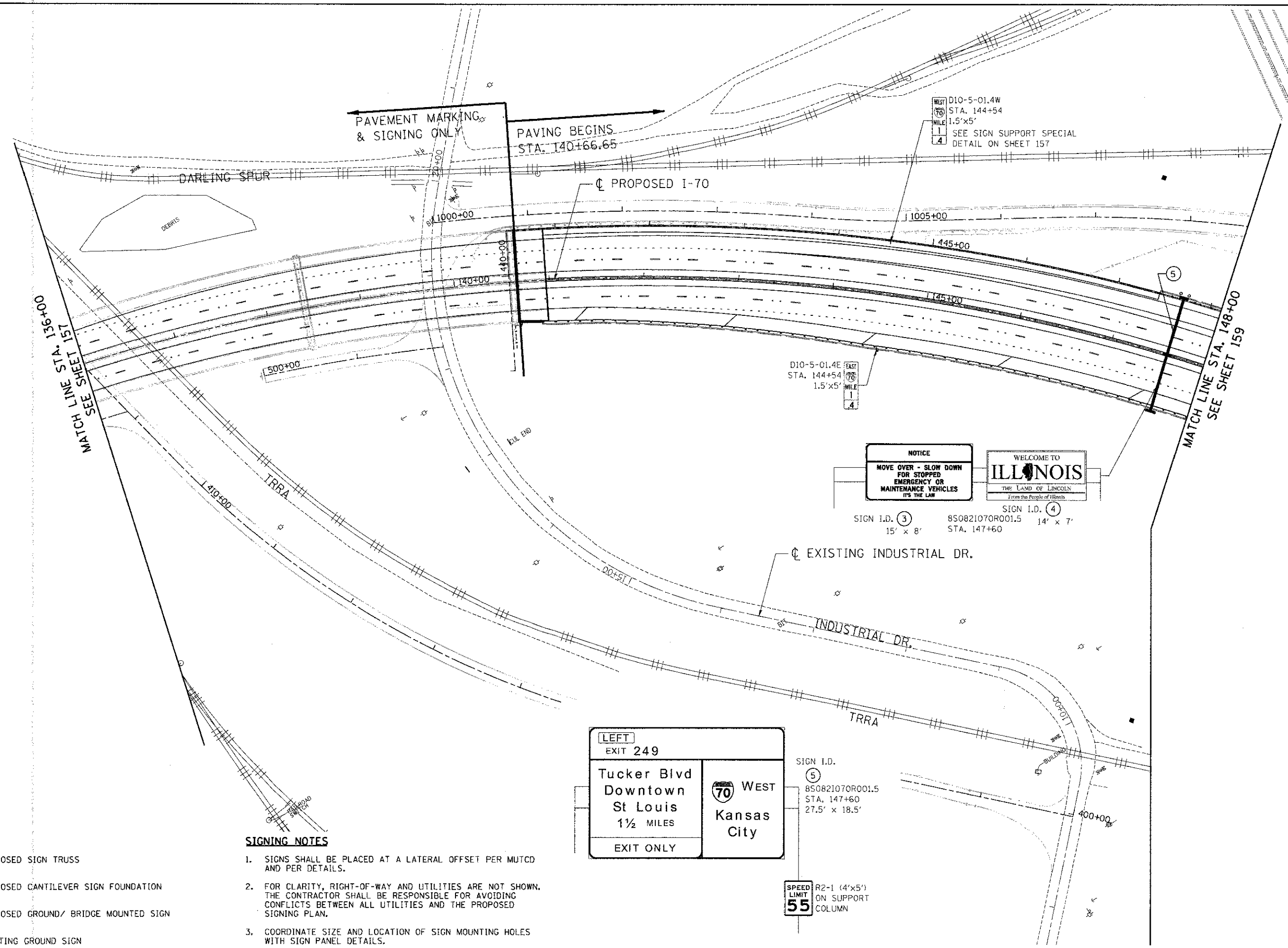
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PLOT SCALE = #SCALE#	DRAWN - JB	REVISED -
PLOT DATE = #DATE#	CHECKED - ACL	REVISED -
	DATE - 06/29/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
I-70 CONNECTION

**PROPOSED I-70
SIGNING PLAN
STA. 63+00 TO STA. 77+50**

SCALE: 1"=50'
SHEET NO. 1 OF 9 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	156
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	



PAVEMENT MARKING & SIGNING ONLY
 PAVING BEGINS STA. 140+66.65

D10-5-01.4W
 STA. 144+54
 1.5'x5'
 SEE SIGN SUPPORT SPECIAL
 DETAIL ON SHEET 157

D10-5-01.4E
 STA. 144+54
 1.5'x5'
 SEE SIGN SUPPORT SPECIAL
 DETAIL ON SHEET 157

NOTICE
 MOVE OVER - SLOW DOWN
 FOR STOPPED
 EMERGENCY OR
 MAINTENANCE VEHICLES
 IT'S THE LAW

WELCOME TO
 ILLINOIS
 THE LAND OF LINCOLN
 From the People of Illinois

SIGN I.D. (3) 15' x 8' 8S0821070R001.5 STA. 147+60
 SIGN I.D. (4) 14' x 7' 8S0821070R001.5 STA. 147+60

LEFT EXIT 249
 Tucker Blvd
 Downtown St Louis
 1 1/2 MILES
 EXIT ONLY

WEST 70
 Kansas City

SIGN I.D. (5)
 8S0821070R001.5
 STA. 147+60
 27.5' x 18.5'

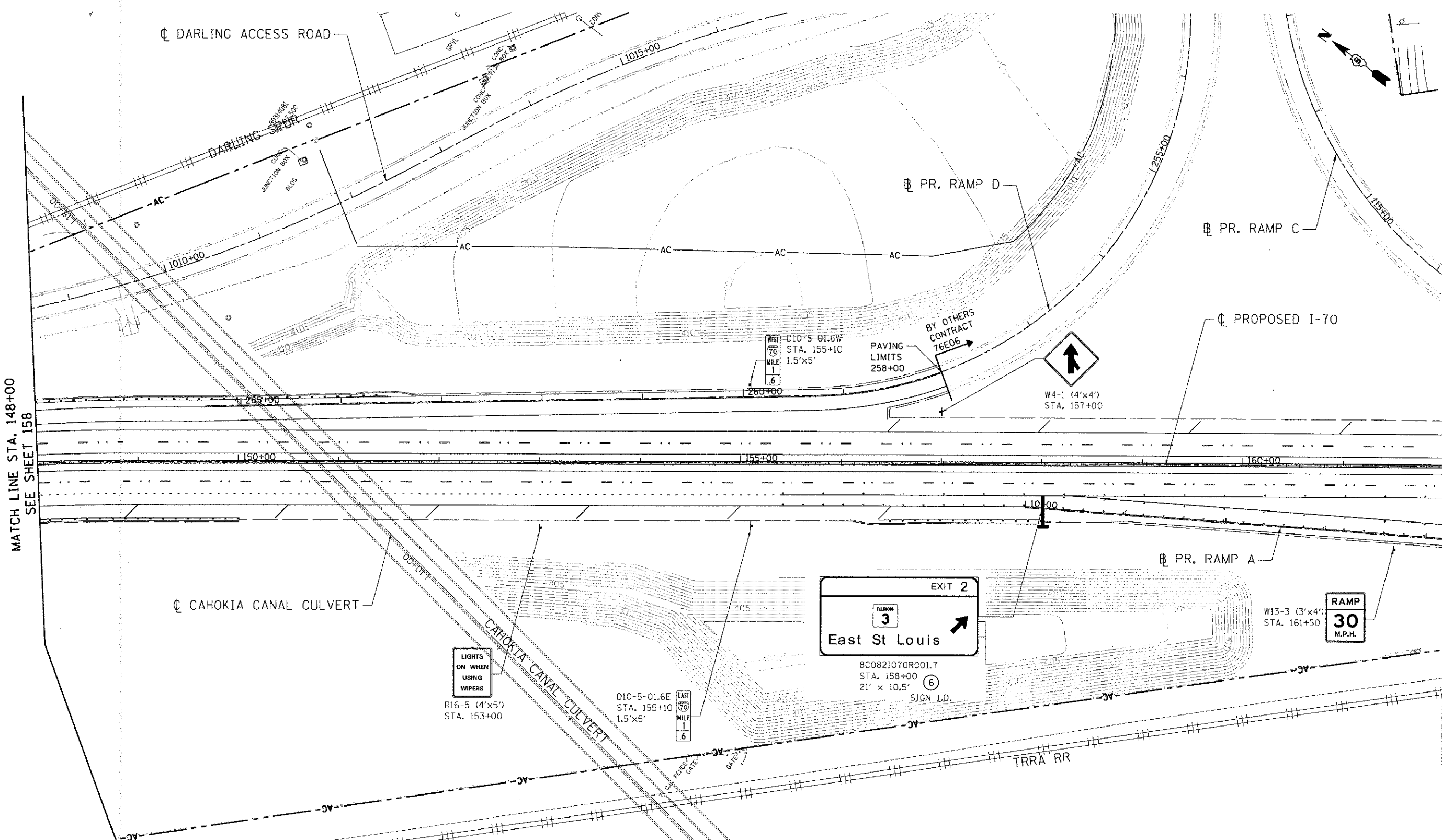
SPEED LIMIT 55
 R2-1 (4'x5') ON SUPPORT COLUMN

- SIGNING LEGEND**
- PROPOSED SIGN TRUSS
 - PROPOSED CANTILEVER SIGN FOUNDATION
 - PROPOSED GROUND/ BRIDGE MOUNTED SIGN
 - EXISTING GROUND SIGN

- SIGNING NOTES**
1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD AND PER DETAILS.
 2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
 3. COORDINATE SIZE AND LOCATION OF SIGN MOUNTING HOLES WITH SIGN PANEL DETAILS.

FILE NAME *	USER NAME = #USER#	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PROPOSED I-70 SIGNING PLAN STA. 136+00 TO STA. 148+00		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE = #SCALE#	DRAWN - JB	REVISED -					998	82-1R	ST. CLAIR	294	158
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = #DATE#	CHECKED - ACL	REVISED -	I-70 CONNECTION		SCALE: 1"=50'	SHEET NO. 3 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 76C43		
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





\\S:\COMMON\08-MOTIF\LDN..._S:\COMMON\08-GEOME\TRNS\LDN..._S:\COMMON\08-MOTIF\LDN..._S:\COMMON\08-LEGE\LDN..._S:\COMMON\08-CONTR\LDN...
 6-27-2012, 10:53



MATCH LINE STA. 148+00
SEE SHEET 158

MATCH LINE STA. 162+00
SEE SHEET 160

SIGNING LEGEND

-  PROPOSED SIGN TRUSS
-  PROPOSED CANTILEVER SIGN FOUNDATION
-  PROPOSED GROUND/ BRIDGE MOUNTED SIGN
-  EXISTING GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD AND PER DETAILS.
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3. COORDINATE SIZE AND LOCATION OF SIGN MOUNTING HOLES WITH SIGN PANEL DETAILS.

FILE NAME *
#FILE#

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

USER NAME *#USER#	DESIGNED - JB	REVISED -
PLOT SCALE *#SCALE#	DRAWN - JB	REVISED -
PLOT DATE *#DATE#	CHECKED - ACL	REVISED -
	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70 SIGNING PLAN
STA. 148+00 TO STA. 162+00

SCALE: 1"=50'

SHEET NO. 4 OF 9 SHEETS

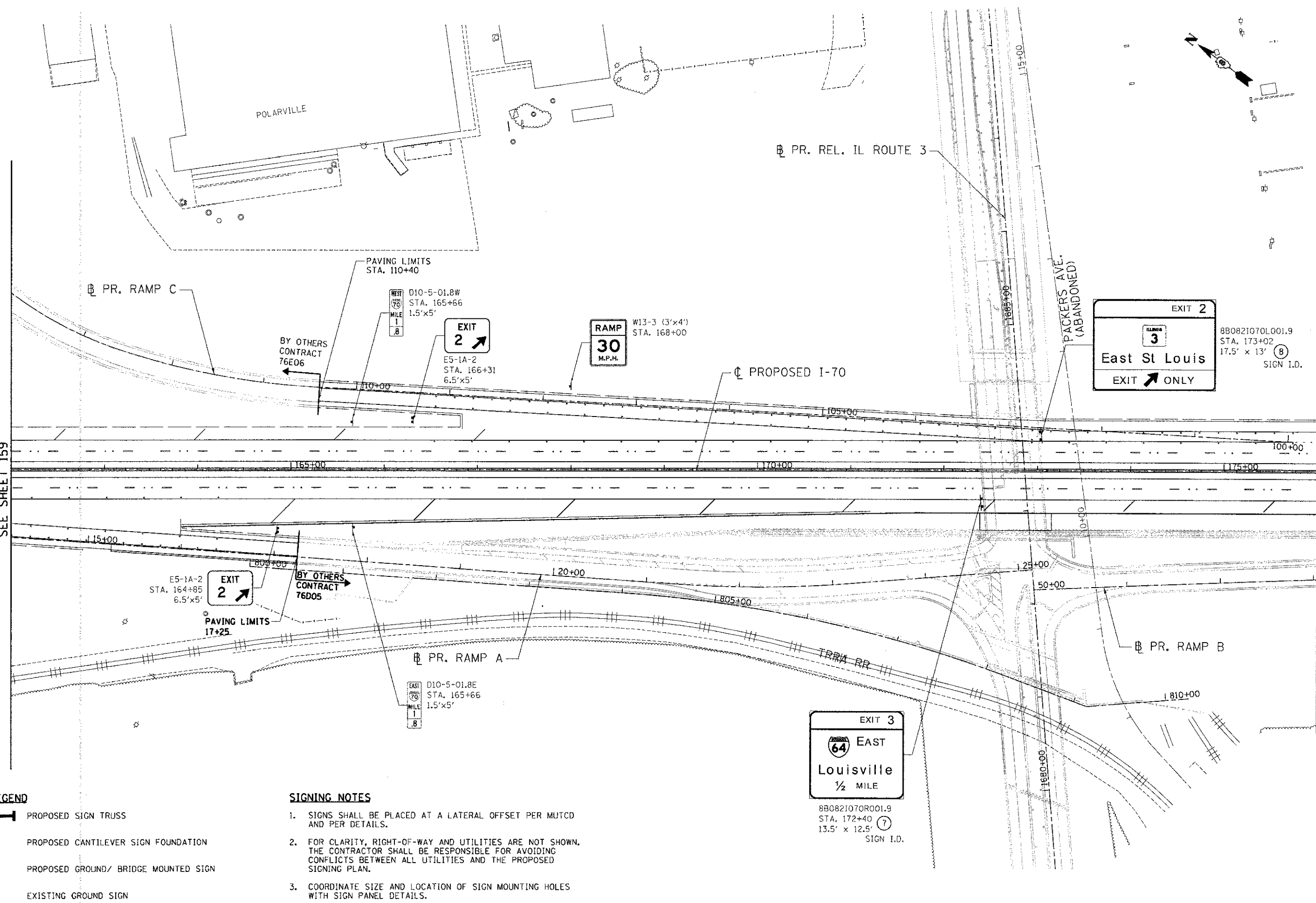
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	159
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

TO STA.	TO STA.
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
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 6-27-2012 10:25:58
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 6-27-2012 10:25:58

MATCH LINE STA. 162+00
SEE SHEET 159

MATCH LINE STA. 176+00
SEE SHEET 161



SIGNING LEGEND

-  PROPOSED SIGN TRUSS
-  PROPOSED CANTILEVER SIGN FOUNDATION
-  PROPOSED GROUND/ BRIDGE MOUNTED SIGN
-  EXISTING GROUND SIGN

SIGNING NOTES

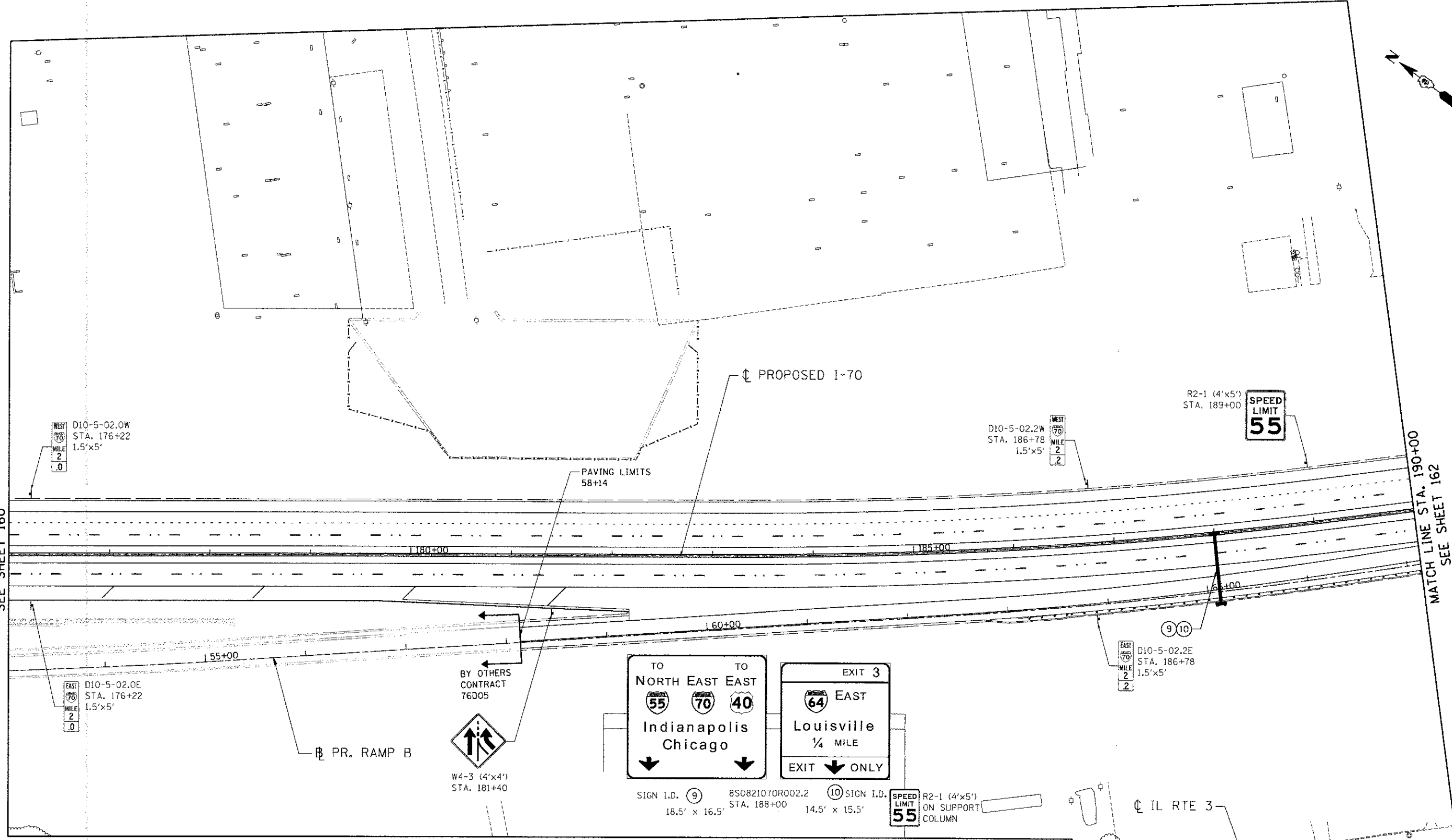
1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD AND PER DETAILS.
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. COORDINATE SIZE AND LOCATION OF SIGN MOUNTING HOLES WITH SIGN PANEL DETAILS.

FILE NAME =	USER NAME = #USER#	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION I-70 CONNECTION	PROPOSED I-70 SIGNING PLAN STA. 162+00 TO STA. 176+00	F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 160
#FILE#	PLOT SCALE = #SCALE#	DRAWN - JB	REVISED -		SCALE: 1"=50'	SHEET NO. 5 OF 9 SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 76C43	
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		DATE - 06/29/12	REVISED -							







MATCH LINE STA. 176+00
SEE SHEET 160

MATCH LINE STA. 190+00
SEE SHEET 162



SIGNING LEGEND

-  PROPOSED SIGN TRUSS
-  PROPOSED CANTILEVER SIGN FOUNDATION
-  PROPOSED GROUND/ BRIDGE MOUNTED SIGN
-  EXISTING GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD AND PER DETAILS.
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FILE NAME *
*FILEL#

TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

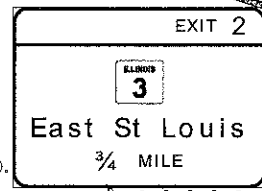
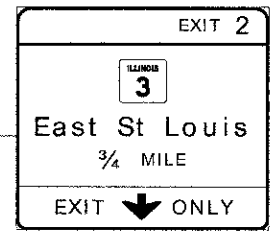
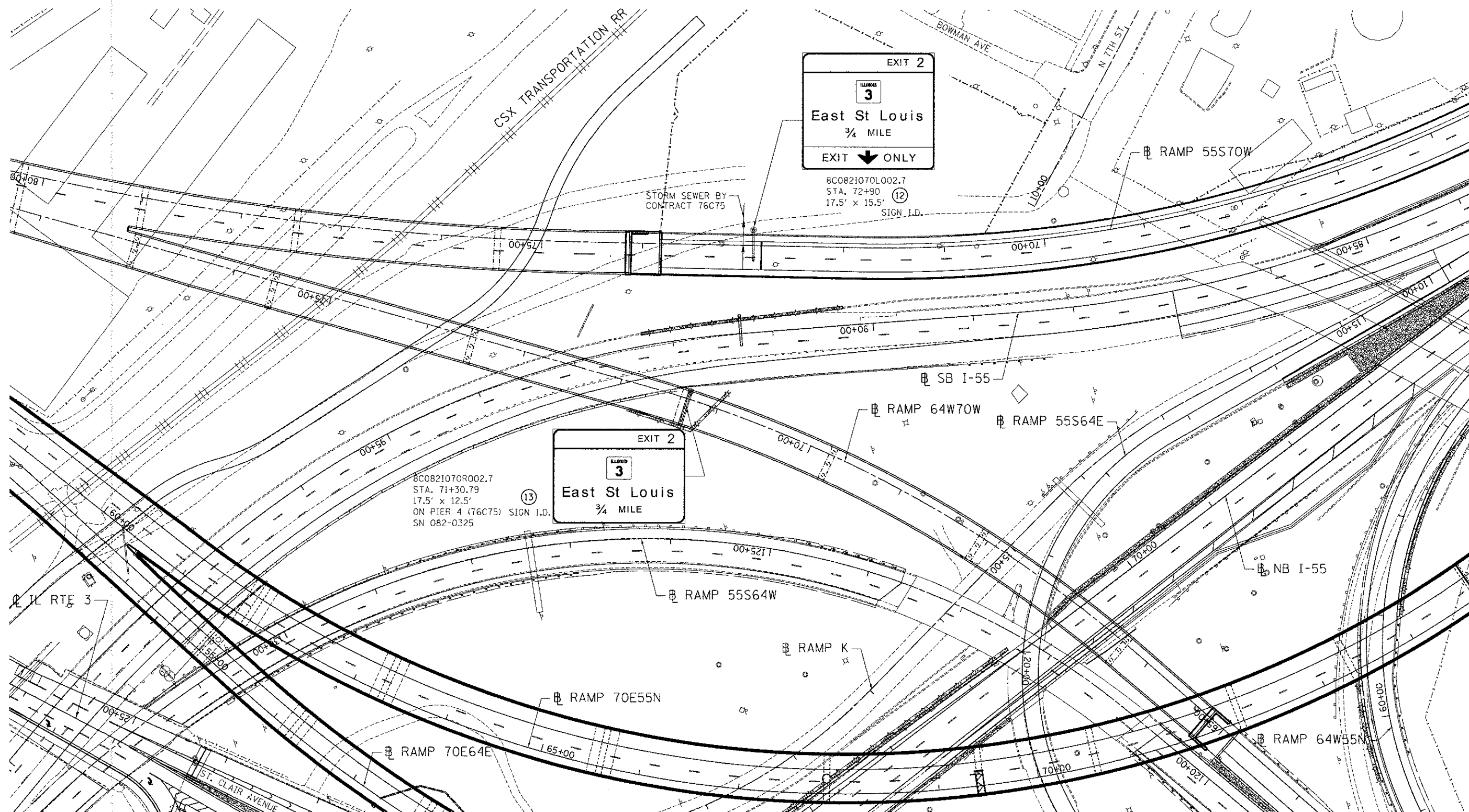
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PLOT SCALE = #SCALE#	DRAWN - JB	REVISED -
PLOT DATE = #DATE#	CHECKED - ACL	REVISED -
	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION





PROPOSED I-70 SIGNING PLAN	
STA. 176+00 TO STA. 190+00	
SCALE: 1"=50'	SHEET NO. 6 OF 9 SHEETS
STA. TO STA.	

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 161
CONTRACT NO. 76C43				

\NDRCON\96-MOTIFL.DGN, \NDRCON\06-BOSCH.DGN, \NDRCON\11-MOTIFL.DGN, \NDRCON\18-MOTIFL.DGN, \NDRCON\08-MOTIFL.DGN, \NDRCON\09-MOTIFL.DGN, \NDRCON\04-LEGEND.DGN, \NDRCON\05-LEGEND.DGN, \NDRCON\07-LEGEND.DGN, \NDRCON\02-LEGEND.DGN, \NDRCON\03-LEGEND.DGN, \NDRCON\01-LEGEND.DGN, \NDRCON\00-LEGEND.DGN, \NDRCON\04-LEGEND.DGN, \NDRCON\05-LEGEND.DGN, \NDRCON\06-LEGEND.DGN, \NDRCON\07-LEGEND.DGN, \NDRCON\08-LEGEND.DGN, \NDRCON\09-LEGEND.DGN, \NDRCON\10-LEGEND.DGN, \NDRCON\11-LEGEND.DGN, \NDRCON\12-LEGEND.DGN, \NDRCON\13-LEGEND.DGN, \NDRCON\14-LEGEND.DGN, \NDRCON\15-LEGEND.DGN, \NDRCON\16-LEGEND.DGN, \NDRCON\17-LEGEND.DGN, \NDRCON\18-LEGEND.DGN, \NDRCON\19-LEGEND.DGN, \NDRCON\20-LEGEND.DGN, \NDRCON\21-LEGEND.DGN, \NDRCON\22-LEGEND.DGN, \NDRCON\23-LEGEND.DGN, \NDRCON\24-LEGEND.DGN, \NDRCON\25-LEGEND.DGN, \NDRCON\26-LEGEND.DGN, \NDRCON\27-LEGEND.DGN, \NDRCON\28-LEGEND.DGN, \NDRCON\29-LEGEND.DGN, \NDRCON\30-LEGEND.DGN, \NDRCON\31-LEGEND.DGN, \NDRCON\32-LEGEND.DGN, \NDRCON\33-LEGEND.DGN, \NDRCON\34-LEGEND.DGN, \NDRCON\35-LEGEND.DGN, \NDRCON\36-LEGEND.DGN, \NDRCON\37-LEGEND.DGN, \NDRCON\38-LEGEND.DGN, \NDRCON\39-LEGEND.DGN, \NDRCON\40-LEGEND.DGN, \NDRCON\41-LEGEND.DGN, \NDRCON\42-LEGEND.DGN, \NDRCON\43-LEGEND.DGN, \NDRCON\44-LEGEND.DGN, \NDRCON\45-LEGEND.DGN, \NDRCON\46-LEGEND.DGN, \NDRCON\47-LEGEND.DGN, \NDRCON\48-LEGEND.DGN, \NDRCON\49-LEGEND.DGN, \NDRCON\50-LEGEND.DGN, \NDRCON\51-LEGEND.DGN, \NDRCON\52-LEGEND.DGN, \NDRCON\53-LEGEND.DGN, \NDRCON\54-LEGEND.DGN, \NDRCON\55-LEGEND.DGN, \NDRCON\56-LEGEND.DGN, \NDRCON\57-LEGEND.DGN, \NDRCON\58-LEGEND.DGN, \NDRCON\59-LEGEND.DGN, \NDRCON\60-LEGEND.DGN, \NDRCON\61-LEGEND.DGN, \NDRCON\62-LEGEND.DGN, \NDRCON\63-LEGEND.DGN, \NDRCON\64-LEGEND.DGN, \NDRCON\65-LEGEND.DGN, \NDRCON\66-LEGEND.DGN, \NDRCON\67-LEGEND.DGN, \NDRCON\68-LEGEND.DGN, \NDRCON\69-LEGEND.DGN, \NDRCON\70-LEGEND.DGN, \NDRCON\71-LEGEND.DGN, \NDRCON\72-LEGEND.DGN, \NDRCON\73-LEGEND.DGN, \NDRCON\74-LEGEND.DGN, \NDRCON\75-LEGEND.DGN, \NDRCON\76-LEGEND.DGN, \NDRCON\77-LEGEND.DGN, \NDRCON\78-LEGEND.DGN, \NDRCON\79-LEGEND.DGN, \NDRCON\80-LEGEND.DGN, \NDRCON\81-LEGEND.DGN, \NDRCON\82-LEGEND.DGN, \NDRCON\83-LEGEND.DGN, \NDRCON\84-LEGEND.DGN, \NDRCON\85-LEGEND.DGN, \NDRCON\86-LEGEND.DGN, \NDRCON\87-LEGEND.DGN, \NDRCON\88-LEGEND.DGN, \NDRCON\89-LEGEND.DGN, \NDRCON\90-LEGEND.DGN, \NDRCON\91-LEGEND.DGN, \NDRCON\92-LEGEND.DGN, \NDRCON\93-LEGEND.DGN, \NDRCON\94-LEGEND.DGN, \NDRCON\95-LEGEND.DGN, \NDRCON\96-LEGEND.DGN, \NDRCON\97-LEGEND.DGN, \NDRCON\98-LEGEND.DGN, \NDRCON\99-LEGEND.DGN, \NDRCON\00-LEGEND.DGN



SIGNING LEGEND

-  PROPOSED SIGN TRUSS
-  PROPOSED CANTILEVER SIGN FOUNDATION
-  PROPOSED GROUND/ BRIDGE MOUNTED SIGN
-  EXISTING GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD AND PER DETAILS.
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. COORDINATE SIZE AND LOCATION OF SIGN MOUNTING HOLES WITH SIGN PANEL DETAILS.

FILE NAME =
#FILE#

TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

USER NAME = #USER#

DESIGNED - JB
DRAWN - JB
CHECKED - ACL
DATE - 06/29/12

REVISED -
REVISED -
REVISED -
REVISED -

PLOT SCALE = #SCALE#

PLOT DATE = #DATE#

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70
SIGNING PLAN
TRI-LEVEL INTERCHANGE

SCALE: 1"=50'

SHEET NO. 8 OF 9 SHEETS

STA. _____ TO STA. _____

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 163
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\ORCON\90-MOTIF\1.DGN, \ORCON\96-GOODFIELD.DGN, \ORCON\11-MOTIF.DGN, \ORCON\96-MOTIF.DGN, \ORCON\96-LEGEND.DGN, \ORCON\99-GEOMETRICS.DGN, \ORCON\99-SIGNS.DGN, \ORCON\99-SIGNS1.DGN, \ORCON\99-SIGNS2.DGN, \ORCON\99-SIGNS3.DGN, \ORCON\99-SIGNS4.DGN, \ORCON\99-SIGNS5.DGN, \ORCON\99-SIGNS6.DGN, \ORCON\99-SIGNS7.DGN, \ORCON\99-SIGNS8.DGN, \ORCON\99-SIGNS9.DGN, \ORCON\99-SIGNS10.DGN, \ORCON\99-SIGNS11.DGN, \ORCON\99-SIGNS12.DGN, \ORCON\99-SIGNS13.DGN, \ORCON\99-SIGNS14.DGN, \ORCON\99-SIGNS15.DGN, \ORCON\99-SIGNS16.DGN, \ORCON\99-SIGNS17.DGN, \ORCON\99-SIGNS18.DGN, \ORCON\99-SIGNS19.DGN, \ORCON\99-SIGNS20.DGN, \ORCON\99-SIGNS21.DGN, \ORCON\99-SIGNS22.DGN, \ORCON\99-SIGNS23.DGN, \ORCON\99-SIGNS24.DGN, \ORCON\99-SIGNS25.DGN, \ORCON\99-SIGNS26.DGN, \ORCON\99-SIGNS27.DGN, \ORCON\99-SIGNS28.DGN, \ORCON\99-SIGNS29.DGN, \ORCON\99-SIGNS30.DGN, \ORCON\99-SIGNS31.DGN, \ORCON\99-SIGNS32.DGN, \ORCON\99-SIGNS33.DGN, \ORCON\99-SIGNS34.DGN, \ORCON\99-SIGNS35.DGN, \ORCON\99-SIGNS36.DGN, \ORCON\99-SIGNS37.DGN, \ORCON\99-SIGNS38.DGN, \ORCON\99-SIGNS39.DGN, \ORCON\99-SIGNS40.DGN, \ORCON\99-SIGNS41.DGN, \ORCON\99-SIGNS42.DGN, \ORCON\99-SIGNS43.DGN, \ORCON\99-SIGNS44.DGN, \ORCON\99-SIGNS45.DGN, \ORCON\99-SIGNS46.DGN, \ORCON\99-SIGNS47.DGN, \ORCON\99-SIGNS48.DGN, \ORCON\99-SIGNS49.DGN, \ORCON\99-SIGNS50.DGN

\ADBCONN-99-MOTIF1.DGN, \ADBCONN-99-RDRDRFLD.DGN, \ADBCONN-99-MOTIF1.DGN, \ADBCONN-99-LEVENOL.DGN, \ADBCONN-99-27-2013_902957.BOND.HLD, \V-F-0844-APAVAU1.D-TRANS.07.2202.2008-001\CIVIL\CA01\99 ALL CONTRACTS\CUNNASHEETS CONTRACT, \RYURCON-00-SHT-SIGS1-4.DGN

DIRECTION	STATION	OFFSET	SHEET NO.	SIGN I.D.	DESCRIPTION	SIGN STRUCTURE #	PROPOSED SIGN SIZE			SIGN PANEL TYPE 1 SQ FT	SIGN PANEL TYPE 2 SQ FT	SIGN PANEL TYPE 3 SQ FT	SIGN PANEL TYPE 3 (SPECIAL) SQ FT	WOOD SIGN SUPPORT (FT)	TELESCOPING STEEL SIGN (FT)	SIGN SUPPORT SPECIAL (EA)
							WIDTH (FT)	HEIGHT (FT)	AREA SQ FT							
EB I-70	69+44	RT	156	1	EXIT 2, IL 3, 1 3/4 MILES	N/A - MODOT	17.5	12.5	218.75							
EB I-70	130+03	RT	157	2	EXIT 2, IL 3, 1/2 MILE	8C0821070R001.1	17.5	12.5	218.75				218.75			
EB I-70	133+98	RT	157	D10-5-01.2E	EAST I-70 MILE 1.2	N/A	1.5	5	7.5	7.5						1
WB I-70	133+98	LT	157	D10-5-01.2W	WEST I-70 MILE 1.2	N/A	1.5	5	7.5	7.5						1
EB I-70	144+54	RT	158	D10-5-01.4E	EAST I-70 MILE 1.4	N/A	1.5	5	7.5	7.5						1
WB I-70	144+54	LT	158	D10-5-01.4W	WEST I-70 MILE 1.4	N/A	1.5	5	7.5	7.5						1
EB I-70	147+60	RT	158	3	MOVE OVER - SLOW DOWN	8S0821070R001.5	15	8	120				120		18	
WB I-70	147+60	LT	158	4	WELCOME TO ILLINOIS	8S0821070R001.5	14	7	98				98			
WB I-70	147+60	LT	158	5	EXIT 249, TUCKER BLVD, I-70 WEST	8S0821070R001.5	27.5	18.5	508.75				508.75			
EB I-70	153+00	RT	159	R2-1	SPEED LIMIT 55	N/A	4	5	20		20					
EB I-70	153+00	RT	159	R16-5	LIGHTS ON WHEN USING WIPERS	N/A	4	5	20		20			18		
EB I-70	155+10	RT	159	D10-5-01.6E	EAST I-70 MILE 1.6	N/A	1.5	5	7.5	7.5					18	
WB I-70	155+10	LT	159	D10-5-01.6W	WEST I-70 MILE 1.6	N/A	1.5	5	7.5	7.5					18	
WB I-70	157+00	LT	159	W4-1	MERGE AHEAD	N/A	4	4	16		16			17		
EB I-70	158+00	RT	159	6	EXIT 2 IL 3, RIGHT	8C0821070R001.7	21	10.5	220.5				220.5			
EB I-70	161+50	RT	159	W13-3	RAMP 30 M.P.H.	N/A	3	4	12		12			17		
EB I-70	164+85	RT	160	E5-1A-2	EXIT 2, RIGHT	N/A	6.5	5	32.5			32.5		36		
EB I-70	165+66	RT	160	D10-5-01.8E	EAST I-70 MILE 1.8	N/A	1.5	5	7.5	7.5					18	
WB I-70	165+66	LT	160	D10-5-01.8W	WEST I-70 MILE 1.8	N/A	1.5	5	7.5	7.5					18	
WB I-70	166+31	LT	160	E5-1A-2	EXIT 2, RIGHT	N/A	6.5	5	32.5			32.5		36		
WB I-70	168+00	LT	160	W13-3	RAMP 30 M.P.H.	N/A	3	4	12		12			17		
EB I-70	172+40	RT	160	7	EXIT 3, I-64 EAST LOUISVILLE 1/2 MILE	8B0821070R001.9	13.5	12.5	168.75				168.75			
WB I-70	173+02	LT	160	8	EXIT 2, IL 3 EXIT ONLY RIGHT	8B0821070L001.9	17.5	13	227.5				227.5			
EB I-70	176+22	RT	161	D10-5-02.0E	EAST I-70 MILE 2.0	N/A	1.5	5	7.5	7.5					18	
WB I-70	176+22	LT	161	D10-5-02.0W	WEST I-70 MILE 2.0	N/A	1.5	5	7.5	7.5					18	
EB I-70	181+40	RT	161	W4-3	MERGE AHEAD	N/A	4	4	16		16			18		
EB I-70	186+78	RT	161	D10-5-02.2E	EAST I-70 MILE 2.2	N/A	1.5	5	7.5	7.5					18	
WB I-70	186+78	LT	161	D10-5-02.2W	WEST I-70 MILE 2.2	N/A	1.5	5	7.5	7.5					18	
EB I-70	188+00	RT	161	9	EAST I-70 TO EAST 40 TO NORTH I-55	8S0821070R002.2	18.5	16.5	305.25				305.25			
EB I-70	188+00	RT	161	10	EXIT 3, I-64 EAST LOUISVILLE 1/4 MILE, EXIT ONLY	8S0821070R002.2	14.5	15.5	224.75				224.75			
WB I-70	188+00	LT	161	R2-1	SPEED LIMIT 55	N/A	4	5	20		20					
WB I-70	189+00	LT	161	R2-1	SPEED LIMIT 55	N/A	4	5	20		20					
WB I-70	195+00	LT	162	11	EXIT 2, IL 3, 1/2 MILE EXIT ONLY	8S0821070L002.4	17.5	15.5	271.25				271.25			
55S70W	72+90	RT	163	12	EXIT 2, IL 3, 3/4 MILE EXIT ONLY	8C0821070L002.7	17.5	15.5	271.25				271.25			
64W70W	71+30.79	RT	163	13	EXIT 2, IL 3, 3/4 MILE	8C0821070R002.7	17.5	12.5	218.75				218.75			
							TOTAL			90.0	136.0	65.0	3,072.25	159.0	162.0	3

* NOTE: TWO SIGN POSTS ARE INCLUDED IN THE TOTAL LENGTH

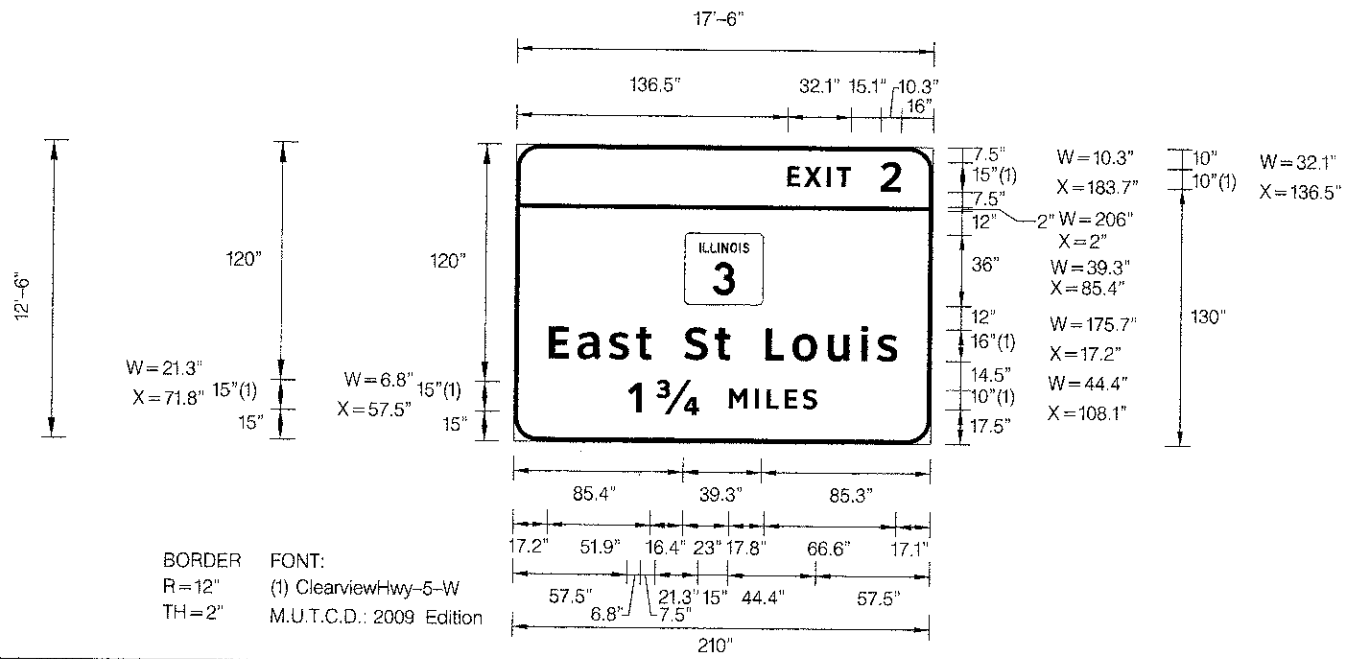
SIGN REMOVALS

DIRECTION	STATION	OFFSET	SHEET NO.	DESCRIPTION	REMOVE SIGN PANEL ASSEMBLY - TYPE B EACH
BAUGH AVE.	403+00	RT	164	TO / NORTH / IL 3 / UP ARROW	1

SIGN DETAIL

1:100

①
SIGN I.D.



Panel Style: guide_fwy_advance_a_2009 MUTCD.ssi
Dimensions are in inches.tenths

BORDER: R=12" TH=2"
FONT: (1) ClearviewHwy-5-W M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

STR. NUMBER	69+44
WIDTH x HGHT.	17'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-2-22-10D	0	85.4	70	39.3	36

LETTER POSITIONS (X)

Letter	X	Y	W	H	Series/Size												
E	136.5	145.1	156.5	161.5	183.7	ClearviewHwy-5-W											
X	145.1	156.5	161.5	183.7	57.5	10,15											
I	156.5	161.5	183.7	17.2	31.7	47.4	61.2	69.1	85.5	100.6	108.5	126.3	140	157.8	174.5	182.7	ClearviewHwy-5-W
T	161.5	183.7	17.2	31.7	47.4	61.2	69.1	85.5	100.6	108.5	126.3	140	157.8	174.5	182.7	ClearviewHwy-5-W	
2	183.7	17.2	31.7	47.4	61.2	69.1	85.5	100.6	108.5	126.3	140	157.8	174.5	182.7	ClearviewHwy-5-W		
S	69.1	85.5	100.6	108.5	126.3	140	157.8	174.5	182.7	95	15,10						
t	85.5	100.6	108.5	126.3	140	157.8	174.5	182.7	95	15,10							
L	100.6	108.5	126.3	140	157.8	174.5	182.7	95	15,10								
o	108.5	126.3	140	157.8	174.5	182.7	95	15,10									
u	126.3	140	157.8	174.5	182.7	95	15,10										
i	140	157.8	174.5	182.7	95	15,10											
s	157.8	174.5	182.7	95	15,10												
1	57.5	71.8	108.1	121.3	127.2	136.3	145.3	95	15,10								
34	71.8	108.1	121.3	127.2	136.3	145.3	95	15,10									
M	108.1	121.3	127.2	136.3	145.3	95	15,10										
I	121.3	127.2	136.3	145.3	95	15,10											
L	127.2	136.3	145.3	95	15,10												
E	136.3	145.3	95	15,10													
S	145.3	95	15,10														



USER NAME = *USER*	DESIGNED - SMS	REVISED -
FILE NAME = *FILEL*	DRAWN - RJO	REVISED -
PLT SCALE = *SCALE*	CHECKED - LDC	REVISED -
PLT DATE = *DATE*	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
1-70 CONNECTION

SIGN PANEL DETAILS	
SCALE:	SHEET NO. 1 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 166
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	

SIGN DETAIL

1:60

4

SIGN I.D.



Panel Style: guide_exp_pull-thru.ssi
Dimensions are in inches tenths

FONT:
(1) Times New Roman

Letter locations are panel edge to lower left corner

STR. NUMBER	8S0821070R001.4RT
WIDTH x HGHT.	14'-0" x 7'-0"
BORDER WIDTH	0"
CORNER RADIUS	0"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Color 24
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/White/Color 41

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

																				LENGTH	SERIES SIZE							
W	E	L	C	O	M	E		T	O												78	Times New Roman 8						
45.1	56.3	63.6	71	78.8	87.1	97.7	104.6	108	115.3												153.1	Times New Roman 24						
I	L	L			N	O	I	S													116.9	Times New Roman 6,8						
7.7	19.3	40.9	61.2	70.7	79.1	106.4	131.6	144.8													95.1	Times New Roman 64						
T	H	E	L	A	N	D	O	F	L	I	N	C	O	L	N													
25.6	30.9	37.4	50.4	57.1	63.3	70	83.9	90.1	102.6	109.3	111.9	118.7	124.6	130.9	136													
F	r	o	m		t	h	e		P	e	o	p	l	e		o	f	i	l	i	l	i	n	o	i	s		
36.5	41.4	44.6	48.8	55.5	57.9	60.3	65	68.4	71	76.1	80	84.1	88.8	91.3	94.7	97.5	101.9	105.2	107	110	112.4	114.9	117.1	121.8	126.2	128.8		

Kaskaskia Engineering Group, LLC



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

DESIGNED -
DRAWN -
CHECKED -
DATE - 06/29/12

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

SIGN PANEL DETAILS

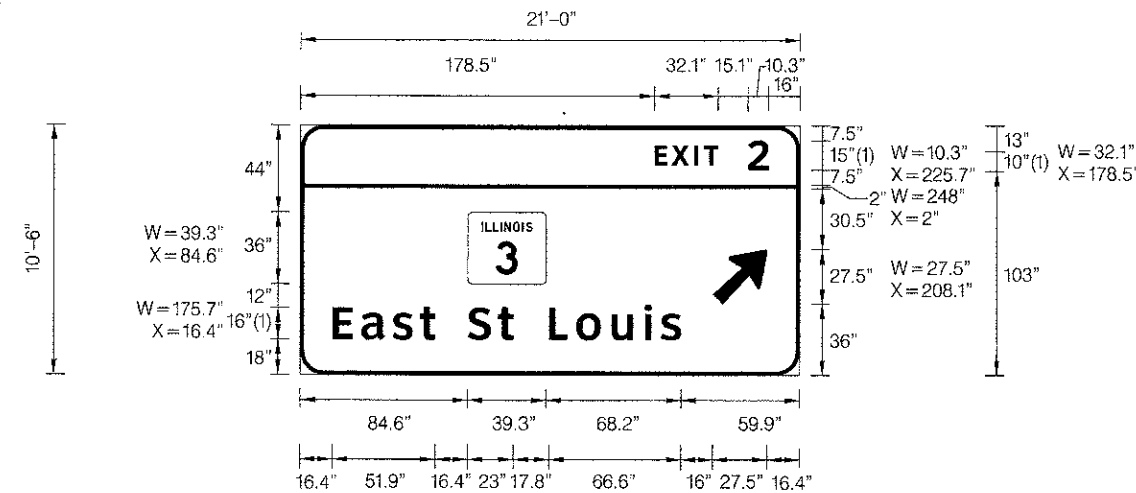
SCALE: SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-IR	ST. CLAIR	294	169
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 76C43	

SIGN DETAIL

1:100

6 SIGN I.D.



STR. NUMBER	8C0821070R001.7
WIDTH x HGHT.	21'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
M100A-2-22-10D	0	84.6	46	39.3	36
AR_Type A	315	208.1	36	22.2	34.9

Panel Style: guide_fwy_advance_a_2009 MUTCD.ssi
 Dimensions are in inches.tenths
 BORDER R=12" TH=2"
 FONT: (I) ClearviewHwy-5-W M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																LENGTH	SERIESSIZE		
E	X	I	T	2													ClearviewHwy-5-W		
178.5	187.1	198.5	203.5	225.7												57.5	10,15		
E	a	s	t	S	t	L	o	u	i	s							ClearviewHwy-5-W		
16.4	30.9	46.6	60.4	68.3	84.7	99.8	107.7	125.5	139.2	157	173.7	181.9						175.7	1613

Kaskaskia Engineering Group, LLC
 223 S. Fourth Street, Suite 200
 Peoria, IL 61614
 Phone: 309.691.9333
 Fax: 309.691.9334

USER NAME = *USER*	DESIGNED = SMS	REVISED =
FILE NAME = *FILEL*	DRAWN = RJO	REVISED =
PLOT SCALE = *SCALE*	CHECKED = LDC	REVISED =
PLOT DATE = *DATE*	DATE = 06/29/12	REVISED =

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

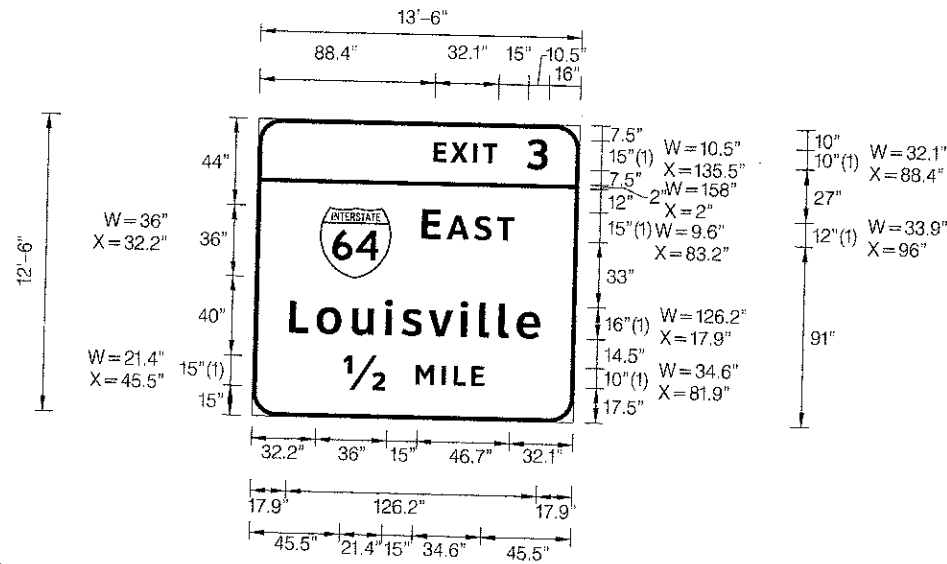
SIGN PANEL DETAILS

SCALE: SHEET NO. 6 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	171
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 76C43

SIGN DETAIL
1:100

7
SIGN I.D.



STR. NUMBER	8B0821070R001.9
WIDTH x HGHT.	13'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	32.2	70	36	36

Panel Style: guide_fwy_overhead_2009.ssi
Dimensions are in inches, tenths

BORDER FONT:
R=12" (1) ClearviewHwy-5-W
TH=2" M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

LETTER	X	Y	WID	HT	LENGTH	SERIES/SIZE
E	88.4	96.9	36	36	36	ClearviewHwy-5-W
X	96.9	96.9	36	36	36	ClearviewHwy-5-W
I	108.4	96.9	36	36	36	ClearviewHwy-5-W
T	113.3	96.9	36	36	36	ClearviewHwy-5-W
3	135.5	96.9	36	36	36	ClearviewHwy-5-W
E	83.2	95.9	36	36	57.7	10,15
A	95.9	95.9	36	36	57.7	10,15
S	109.7	95.9	36	36	57.7	10,15
T	121.2	95.9	36	36	57.7	10,15
L	17.9	31.6	126.2	16	46.7	15,12
o	31.6	49.4	126.2	16	46.7	15,12
u	49.4	66.1	126.2	16	46.7	15,12
i	66.1	82.8	126.2	16	46.7	15,12
s	74.3	99.5	126.2	16	46.7	15,12
v	87.7	116.2	126.2	16	46.7	15,12
i	103.8	132.9	126.2	16	46.7	15,12
l	113.3	149.6	126.2	16	46.7	15,12
l	123.1	166.3	126.2	16	46.7	15,12
e	132.4	183.0	126.2	16	46.7	15,12
1/2	45.5	81.9	126.2	16	126.2	16/13
M	81.9	95.1	126.2	16	126.2	16/13
I	95.1	108.3	126.2	16	126.2	16/13
L	101.1	121.5	126.2	16	126.2	16/13
E	110.2	134.7	126.2	16	126.2	16/13
1/2	45.5	110.2	126.2	16	71	15,10
M	81.9	123.4	126.2	16	71	15,10
I	95.1	136.6	126.2	16	71	15,10
L	101.1	149.8	126.2	16	71	15,10
E	110.2	163.0	126.2	16	71	15,10



USER NAME = #USERS	DESIGNED - SMS	REVISED -
FILE NAME = #FILE#	DRAWN - RJO	REVISED -
PLOT SCALE = #SCALE#	CHECKED - LDC	REVISED -
PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

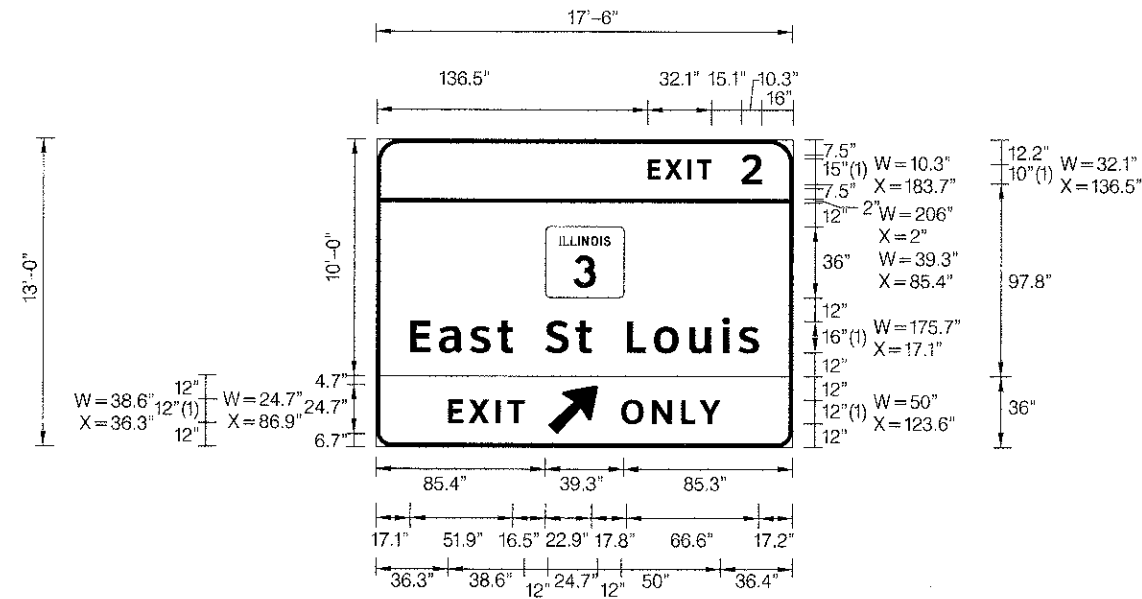
SIGN PANEL DETAILS	
SCALE:	SHEET NO. 7 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	172

CONTRACT NO. 76C43

SIGN DETAIL
1:100

8
SIGN I.D.



Panel Style: guide_fwy_overhead_2009_exit.ssi
Dimensions are in inches.tenths

BORDER R=12" TH=2"
FONT: (1) ClearviewHwy-5-W
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

STR. NUMBER	8B0821070L1.9
WIDTH x HGHT.	17'-6" x 13'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24 /Color 9
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100 /Color 218 /Black /White

SYMBOL	ROT	X	Y	WID	HT
M1-100A-2-22-10D	0	85.4	40	39.3	36
AR_Type A	315	86.9	6.7	19.9	31.4

LETTER POSITIONS (X)

LETTER	X	Y	W	H	LENGTH	SERIES/SIZE
E	136.5	145.1	156.6	161.5	183.7	ClearviewHwy-5-W
X	17.1	31.6	47.4	61.1	69	57.5
I	69	85.5	100.6	108.4	126.2	10,15
T	126.2	139.9	157.7	174.4	182.6	ClearviewHwy-5-W
2	17.1	31.6	47.4	61.1	69	175.7
S	69	85.5	100.6	108.4	126.2	1613
t	126.2	139.9	157.7	174.4	182.6	ClearviewHwy-5-W
L	17.1	31.6	47.4	61.1	69	38.6
o	69	85.5	100.6	108.4	126.2	12
u	126.2	139.9	157.7	174.4	182.6	ClearviewHwy-5-W
i	17.1	31.6	47.4	61.1	69	50
s	69	85.5	100.6	108.4	126.2	12
E	123.6	139	153.7	163		ClearviewHwy-5-W
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USER NAME * #USER#	DESIGNED - SMS	REVISED -
FILE NAME * #FILEL#	DRAWN - RJO	REVISED -
PLOT SCALE * #SCALE#	CHECKED - LDC	REVISED -
PLOT DATE * #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

SIGN PANEL DETAILS			
SCALE:	SHEET NO. 8 OF 14 SHEETS	STA.	TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 173
CONTRACT NO. 76C45				

SIGN DETAIL
1:100

9
SIGN I.D.



SIGN NUMBER	8S0821070R002.2
WIDTH x HGHT.	18'-6" x 16'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	30.1	103.4	36	36
M1_1	0	102.7	103.4	36	36
M1_4	0	164.4	103.4	36	36
ARDDOWN	0	19	13.4	32	22
ARDDOWN	0	171	13.4	32	22

Panel Style: guide_fwy_overhead_2009.ssi
Dimensions are in inches.tenths

LETTER POSITIONS (X)												LENGTH	SERIESSIZE
T	O											19.1	ClearviewHwy-5-W 10
38.6	48.4											19.1	ClearviewHwy-5-W 10
T	O											66.2	ClearviewHwy-5-W 15,12
172.9	182.7											46.7	ClearviewHwy-5-W 15,12
N	O	R	T	H								46.7	ClearviewHwy-5-W 15,12
16.2	33.5	49	60.9	73.2								103.9	ClearviewHwy-5-W 16/13
E	A	S	T										
97.4	110.2	124	135.4										
E	A	S	T										
159.1	171.9	185.7	197.1										
I	N	D	I	A	N	A	P	O	L	I	S		
28.9	38.3	54.8	72.2	80.7	97.7	113.9	130.9	147.3	165.1	174.7	182.9		
C	H	I	C	A	G	O							
59	76.9	93.7	102.6	117.1	133.5	150.6							



USER NAME = #USER#	DESIGNED - SMS	REVISED -
FILE NAME = #FILEL#	DRAWN - RJO	REVISED -
PLOT SCALE = #SCALE#	CHECKED - LDC	REVISED -
PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

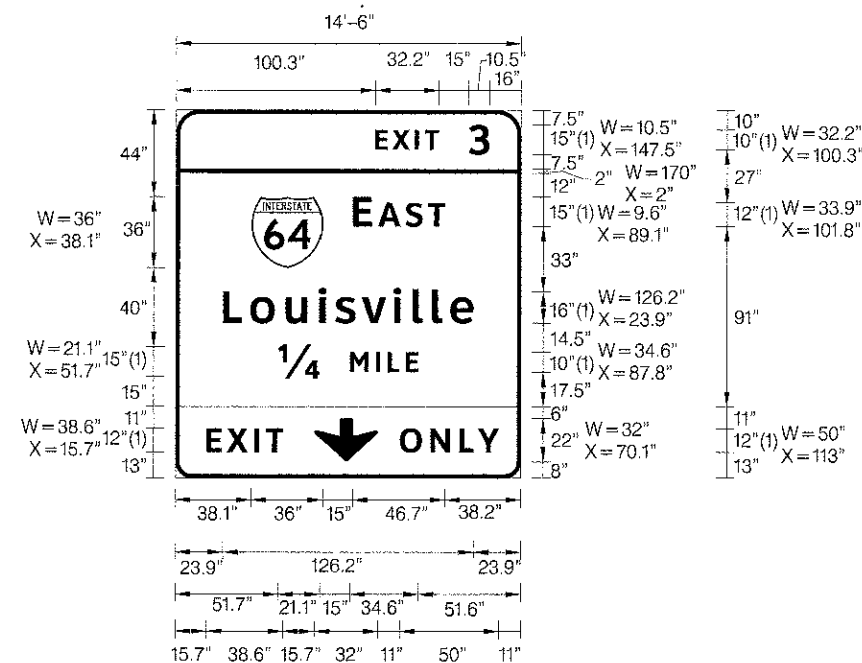
SIGN PANEL DETAILS			
SCALE:	SHEET NO. 9 OF 14 SHEETS	STA.	TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 174
FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 76C43	

SIGN DETAIL

1:100

10
SIGN I.D.



Panel Style: guide_fwy_overhead_2009_exit.ssi
 Dimensions are in inches.tenths
 FONT: (1) ClearviewHwy-5-W
 M.U.T.C.D.: 2009 Edition
 BORDER: R=12"
 TH=2"

Letter locations are panel edge to lower left corner

SIGN NUMBER	8S0821070R002.2
WIDTH x HGHT.	14'-6" x 15'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24 / Color 9
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100 /Color 218 /Color 100

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	38.1	70	36	36
ARDOWN	0	70	8	32	22

LETTER POSITIONS (X)

LETTER	W	X	Y	HT	Series	SIZE						
E	100.3	108.9	120.3	125.3	147.5	ClearviewHwy-5-W						
X	38.1	36	15	46.7	38.2	10,15						
I	23.9	126.2	23.9	51.7	21.1	15,12						
T	51.7	21.1	15	34.6	51.6	ClearviewHwy-5-W						
3	15.7	38.6	15.7	32	11	15,12						
E	89.1	101.8	115.6	127.1		ClearviewHwy-5-W						
A	23.9	37.6	55.4	72.1	80.3	93.7	109.8	119.2	129.1	138.4	126.2	1613
S	51.7	87.8	101	106.9	116		ClearviewHwy-5-W					
T	15.7	26	39.7	45.7			ClearviewHwy-5-W					
L	113	128.4	143.1	152.4			ClearviewHwy-5-W					
O							ClearviewHwy-5-W					
N							ClearviewHwy-5-W					
L							ClearviewHwy-5-W					
E							ClearviewHwy-5-W					
1/4							ClearviewHwy-5-W					
M							ClearviewHwy-5-W					
I							ClearviewHwy-5-W					
L							ClearviewHwy-5-W					
E							ClearviewHwy-5-W					
EXIT ONLY							ClearviewHwy-5-W					

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USER NAME = #USER#	DESIGNED - SMS	REVISED -
FILE NAME = #FILE#	DRAWN - RJO	REVISED -
PLOT SCALE = #SCALE#	CHECKED - LDC	REVISED -
PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

SIGN PANEL DETAILS

SCALE: SHEET NO. 10 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 175
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	

SIGN DETAIL
1:100

11
SIGN I.D.



Panel Style: guide_fw_Overhead_2009_exit.ssi
Dimensions are in inches.tenths

BORDER R=12" TH=2"
FONT: (1) ClearviewHwy-5-W
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

STR. NUMBER	8S0821070L002.4
WIDTH x HGHT.	17'-6" x 15'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24 /Color 9
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100 /Color 218 /Color 100

SYMBOL	ROT	X	Y	WID	HT
M1100A-2-22-10D	0	85.4	70	39.3	36
ARDOWN	0	88	8	32	22

LETTER POSITIONS (X)

LETTER	X	Y	W	H	LENGTH	SERIES	SIZE
E	136.5	15.6	10.3	12.0	57.5	ClearviewHwy-5-W	10,15
X	145.1	15.6	10.3	12.0			
I	156.6	15.6	10.3	12.0	175.7	ClearviewHwy-5-W	16/13
T	161.5	15.6	10.3	12.0			
2	183.7	15.6	10.3	12.0	71	ClearviewHwy-5-W	15;10
E	17.1	119.1	10.3	12.0	38.6	ClearviewHwy-5-W	12
a	31.6	119.1	10.3	12.0			
s	47.4	119.1	10.3	12.0	50	ClearviewHwy-5-W	12
t	61.1	119.1	10.3	12.0			
S	69	119.1	10.3	12.0			
L	85.5	119.1	10.3	12.0			
o	100.6	119.1	10.3	12.0			
u	108.4	119.1	10.3	12.0			
i	126.2	119.1	10.3	12.0			
s	139.9	119.1	10.3	12.0			
M	157.7	119.1	10.3	12.0			
I	174.4	119.1	10.3	12.0			
L	182.6	119.1	10.3	12.0			
E	33.7	15.6	10.3	12.0			
X	44	15.6	10.3	12.0			
I	57.7	15.6	10.3	12.0			
T	63.7	15.6	10.3	12.0			
O	131	15.6	10.3	12.0			
N	146.4	15.6	10.3	12.0			
L	161.1	15.6	10.3	12.0			
Y	170.4	15.6	10.3	12.0			



USER NAME = #USER#	DESIGNED - SMS	REVISED -
FILE NAME = #FILE#	DRAWN - RJO	REVISED -
PLOT SCALE = #SCALE#	CHECKED - LDC	REVISED -
PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

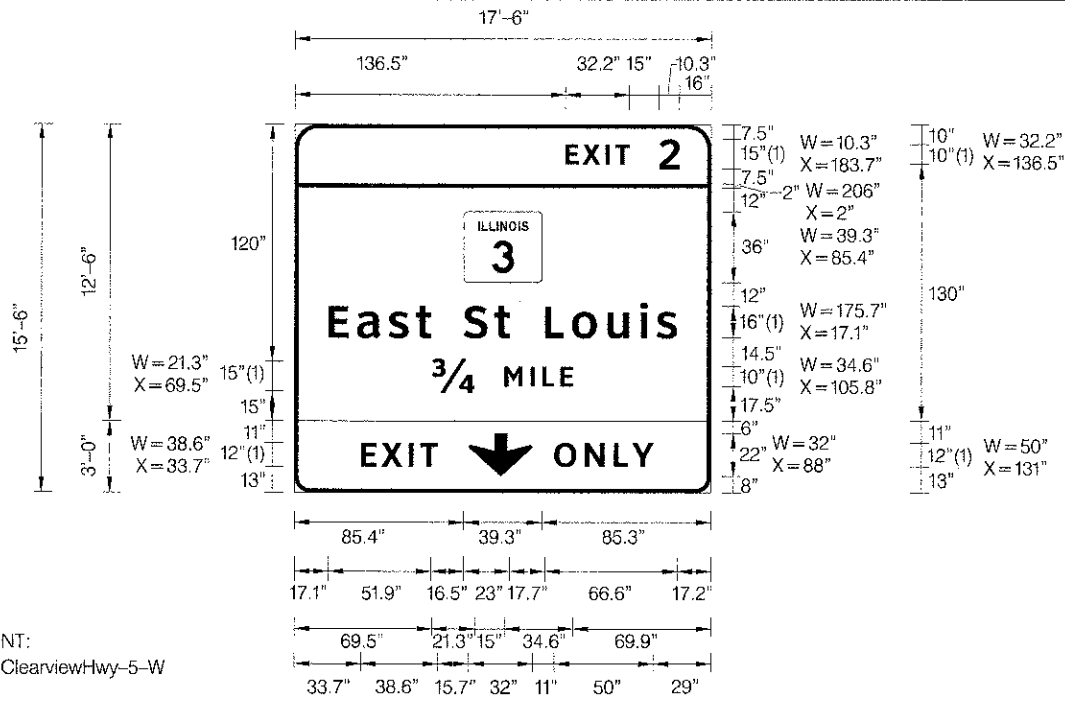
SCALE:	SHEET NO. 11 OF 14 SHEETS	STA. TO STA.
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F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 176
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	

SIGN DETAIL
1:100

1:100

12
SIGN I.D.



Panel Style: guide_fwy_overhead_2009_exit.ssi
Dimensions are in inches.tenths

BORDER FONT:
R=12" (1) ClearviewHwy-5-W

Letter locations are panel edge to lower left corner

STR. NUMBER	8C0821070L002.7
WIDTH x HGHT.	17'-6" x 15'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24 /Color 9
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100 /Color 218 /Color 100

SYMBOL	ROT	X	Y	WID	HT
M1-100A-2-22-10D	0	85.4	70	39.3	36
ARDOWN	0	84.4	8.4	29.9	20.5

LETTER POSITIONS (X)

LETTER	X	Y	W	H	SERIES	SIZE
E	136.5	145.1	156.6	161.5	183.7	ClearviewHwy-5-W
X	136.5	145.1	156.6	161.5	183.7	10,15
I	17.1	31.7	47.4	61.1	69	ClearviewHwy-5-W
T	17.1	31.7	47.4	61.1	69	16/13
2	69.5	105.8	118.9	124.9	134	ClearviewHwy-5-W
	69.5	105.8	118.9	124.9	134	15,10
E	33.7	44	57.7	63.7		ClearviewHwy-5-W
X	33.7	44	57.7	63.7		12
I	131	146.4	161.1	170.4		ClearviewHwy-5-W
L	131	146.4	161.1	170.4		12
Y						

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

DESIGNED - SMS
DRAWN - RJO
CHECKED - LDC
DATE - 06/29/12

REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

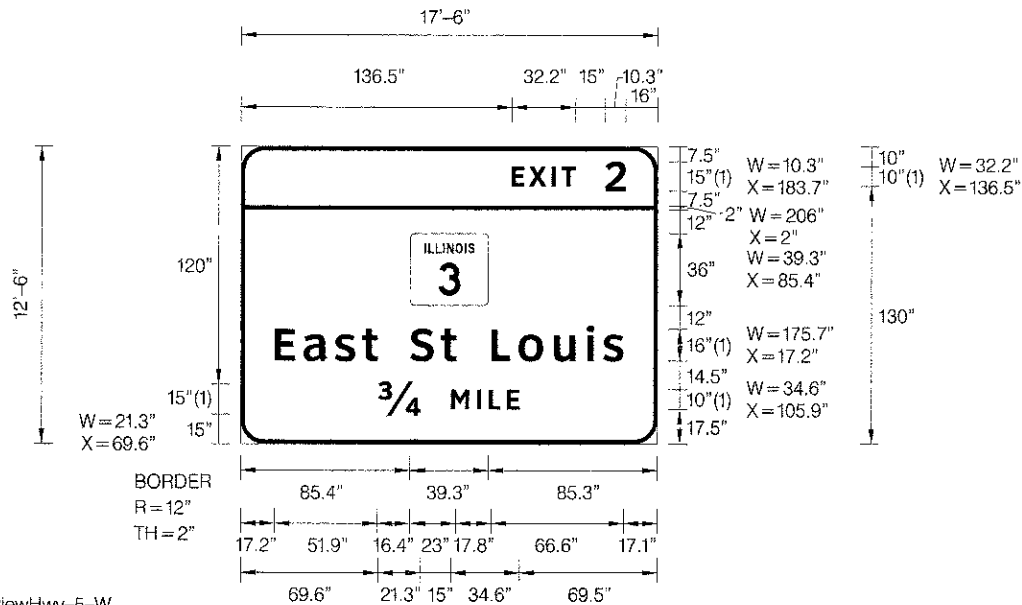
SIGN PANEL DETAILS

SCALE: SHEET NO. 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	177
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76C43	

SIGN DETAIL
1:100

13
SIGN I.D.



Panel Style: guide_fwy_advance_a_2009 MUTCD.ssi
Dimensions are in inches.tenths

BORDER R=12" TH=2"
FONT: (1) ClearviewHwy-5-W
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

STR. NUMBER	8C0821070R002.7
WIDTH x HGHT.	17'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective
	COLOR: Color 24
LEGEND/BORDER	TYPE: ZZ Retro Reflective
	COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-2-22-10D	0	85.4	70	39.3	36

LETTER POSITIONS (X)

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE			
E	X	I	T	2													ClearviewHwy-5-W
136.5	145.1	156.5	161.5	183.7												57.5	10,15
E	a	s	t		S	t		L	o	u	i	s					ClearviewHwy-5-W
17.2	31.7	47.4	61.2	69.1	85.5	100.6	108.5	126.3	140	157.8	174.5	182.7			175.7	1613	
3/4	M	I	L	E												ClearviewHwy-5-W	
69.6	105.9	119.1	125	134.1											70.9	15,10	



USER NAME = USER	DESIGNED = SMS	REVISED =
FILE NAME = 41.LLR	DRAWN = RJO	REVISED =
PLOT SCALE = SCALE	CHECKED = LDC	REVISED =
PLOT DATE = DATE	DATE = 06/29/12	REVISED =

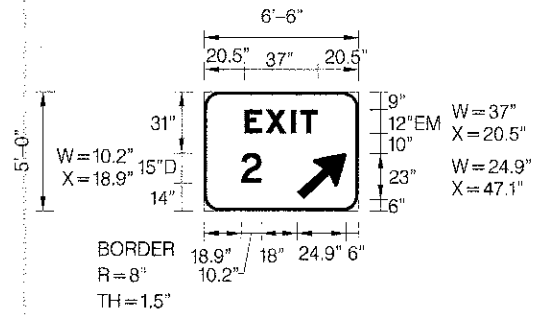
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

SIGN PANEL DETAILS

SCALE: SHEET NO. 13 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 178
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 76C43	

SIGN DETAIL
1:100



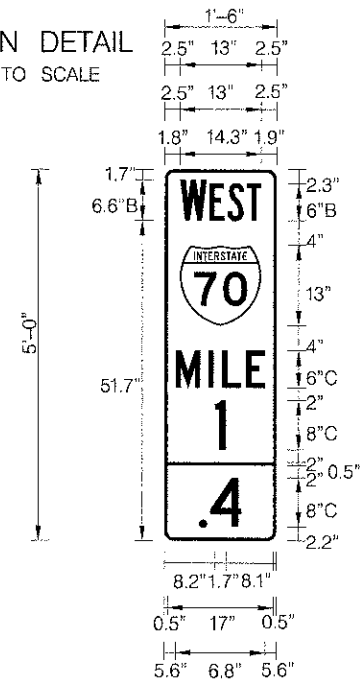
SIGN NUMBER	E5-1a-2
WIDTH x HGHT.	6'-6" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	8"
MOUNTING	Ground
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: ZZ Retro Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
ARMED	42.3	47.1	6	18	31.1

M.U.T.C.D.: 2009 Edition
Panel Style: guide_fw_gore.ssi
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIESSIZE
E	X	I	T				EM 2000
20.5	31.1	44	48.6			37	12
2							D 2000
18.9						10.2	15

SIGN DETAIL
NOT TO SCALE



SIGN NUMBER	D10-5-01.4W
WIDTH x HGHT.	1'-6" x 5'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	2.5	34.8	13	13

Panel Style: guide_exp_ref-location.ssi
Dimensions are in inches.tenths
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)						LENGTH	SERIESSIZE
W	E	S	T				B 2000
2.5	7.2	10.1	13.2			12.9	6.6
M	I	L	E				C 2000
1.8	7.1	9.2	13.1			14.3	6
1							C 2000
8.2						1.7	8
	4						C 2000
5.6	7.4					6.8	8

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USER NAME = #USER#	DESIGNED - SMS	REVISED -
FILE NAME = #FILE#	DRAWN - RJC	REVISED -
PLOT SCALE = #SCALE#	CHECKED - LDC	REVISED -
PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

SIGN PANEL DETAILS

SCALE: SHEET NO. 14 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 179
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	

GENERAL NOTES

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

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 or A500 Grade B or C. 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 Mill. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

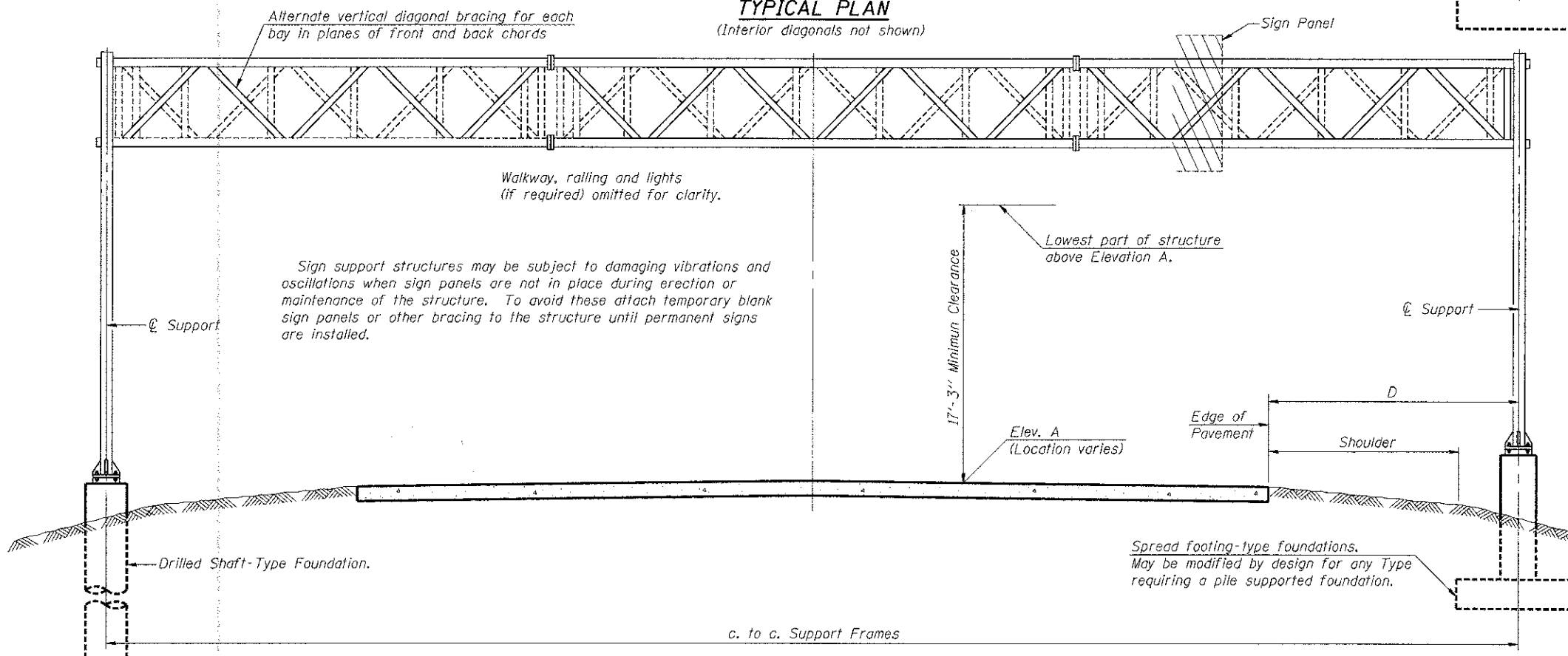
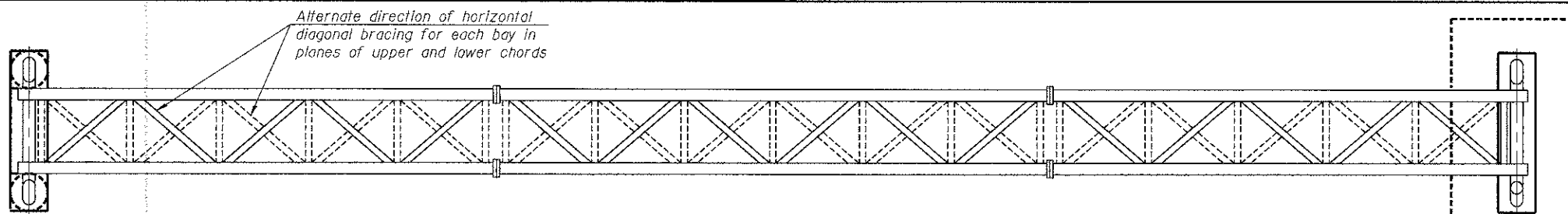
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	71.0
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	-
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	128.0
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	124.7
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	45.7

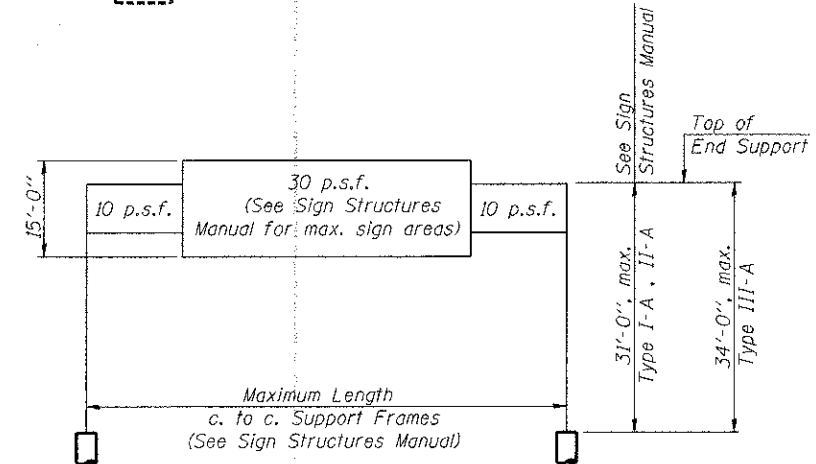


TYPICAL ELEVATION
(Looking at Face of Signs**)

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
8S0821070R001.5	147+60	III-A	128'-0"	425.24	6'-6"	18'-6"	727
8S0821070R002.2	188+00	I-A	71'-0"	435.41	12'-11"	16'-6"	530

**Looking upstation for structures with signs both sides.

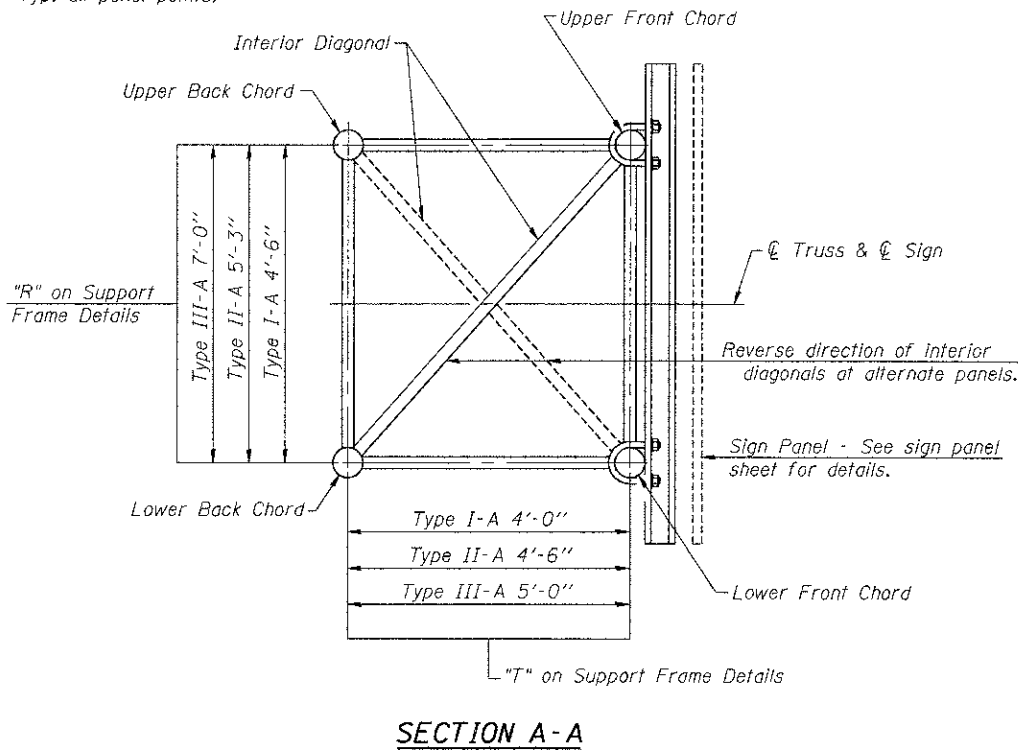
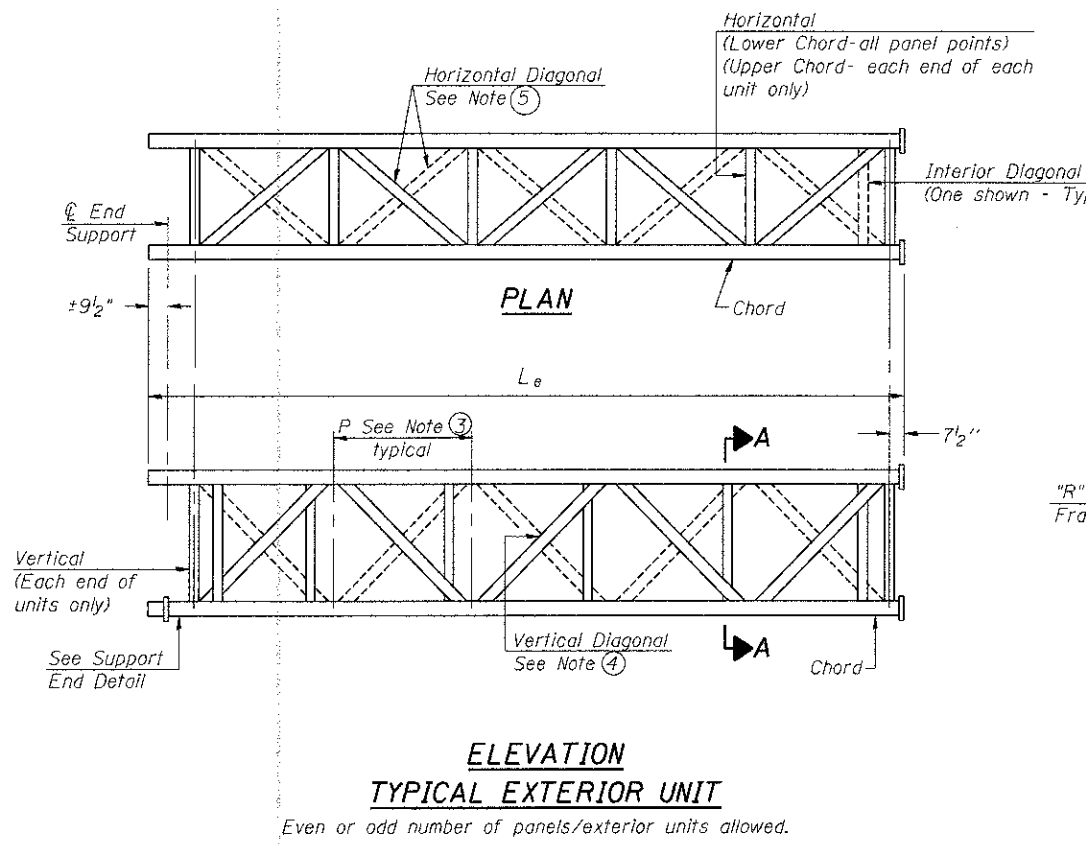
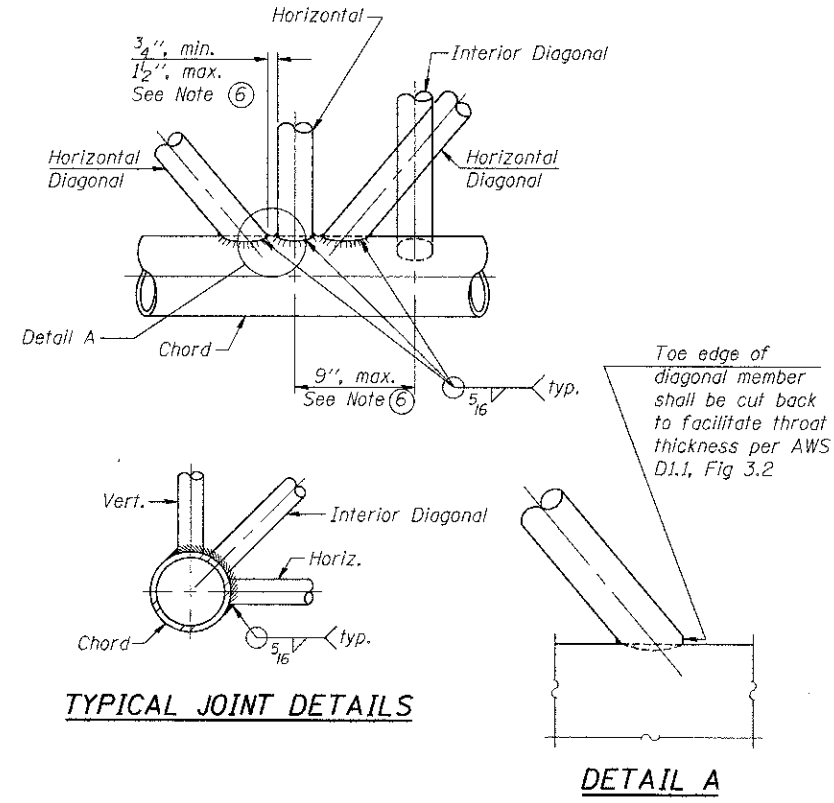
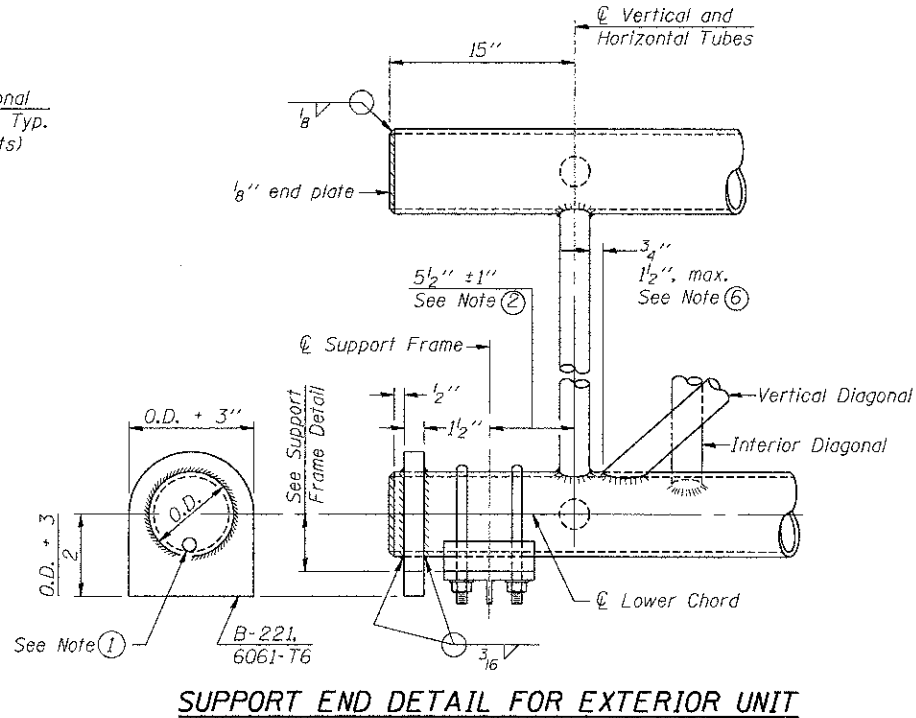
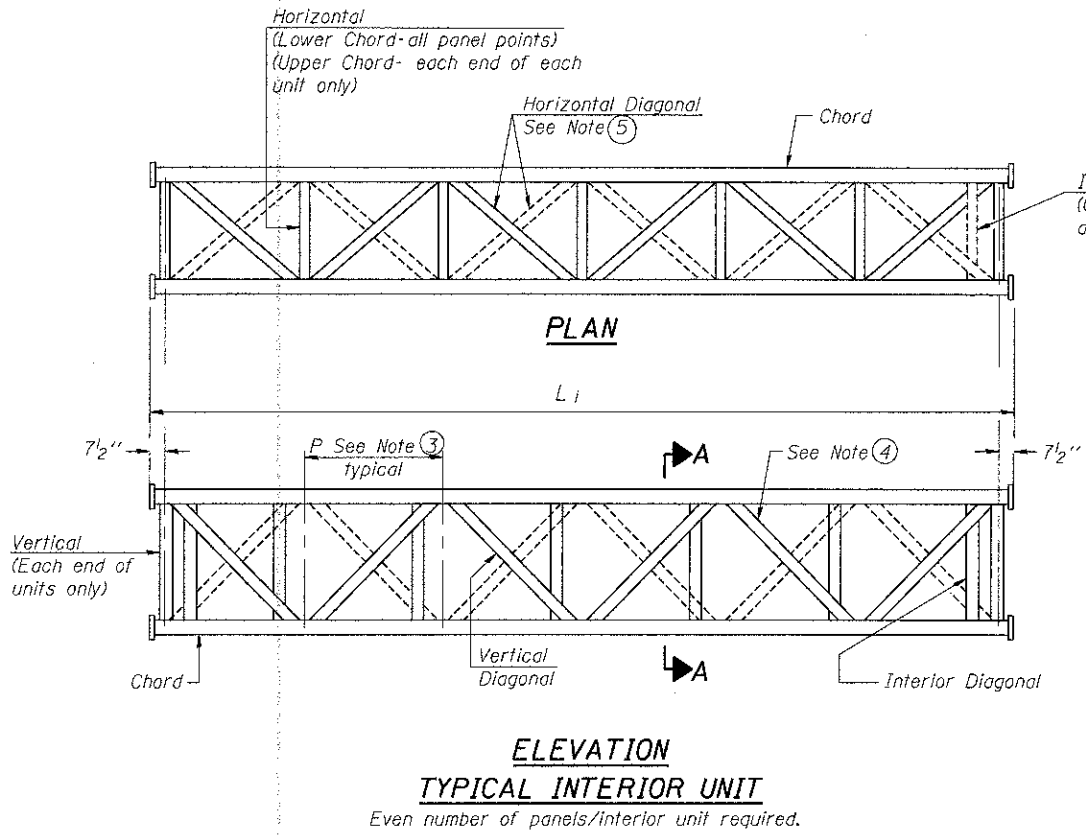
* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



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.

6-27-2012 08:52:20 BONDHILL N:\F5\0841\VA\VALT.LP-TRANS.07\2002\206689-001\STRUCT.CAD\DR. DESIGN SIGN STRUCTURE SHEET DECONN.08-SIT-SIGNA.DGN
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- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. $\frac{1}{2}$ " ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② $5\frac{1}{2}$ " end dimension may vary by ± 1 " to provide uniform panel spacing (P).
- ③ 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.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a $\frac{3}{4}$ " minimum to $1\frac{1}{2}$ " maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

FILE NAME: OS-A-2
 USER: MDJ
 DATE: 06/29/12
 SCALE: AS SHOWN
 PROJECT: STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS

OS-A-2

6-7-12

DESIGNED - MDJ	REVISIONS -
DRAWN - MDJ	REVISIONS -
CHECKED - JLR	REVISIONS -
DATE - 06/29/12	REVISIONS -

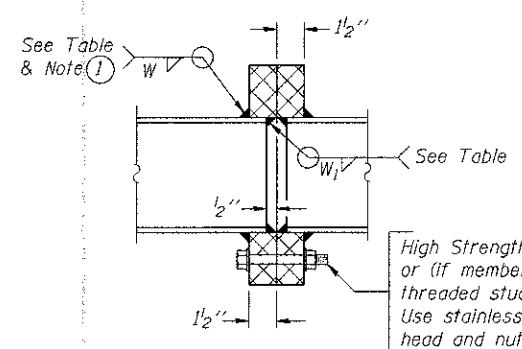
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 181
SCALE: SHEET NO. 2 OF 14 SHEETS		STA. TO STA.	CONTRACT NO. 76C43	

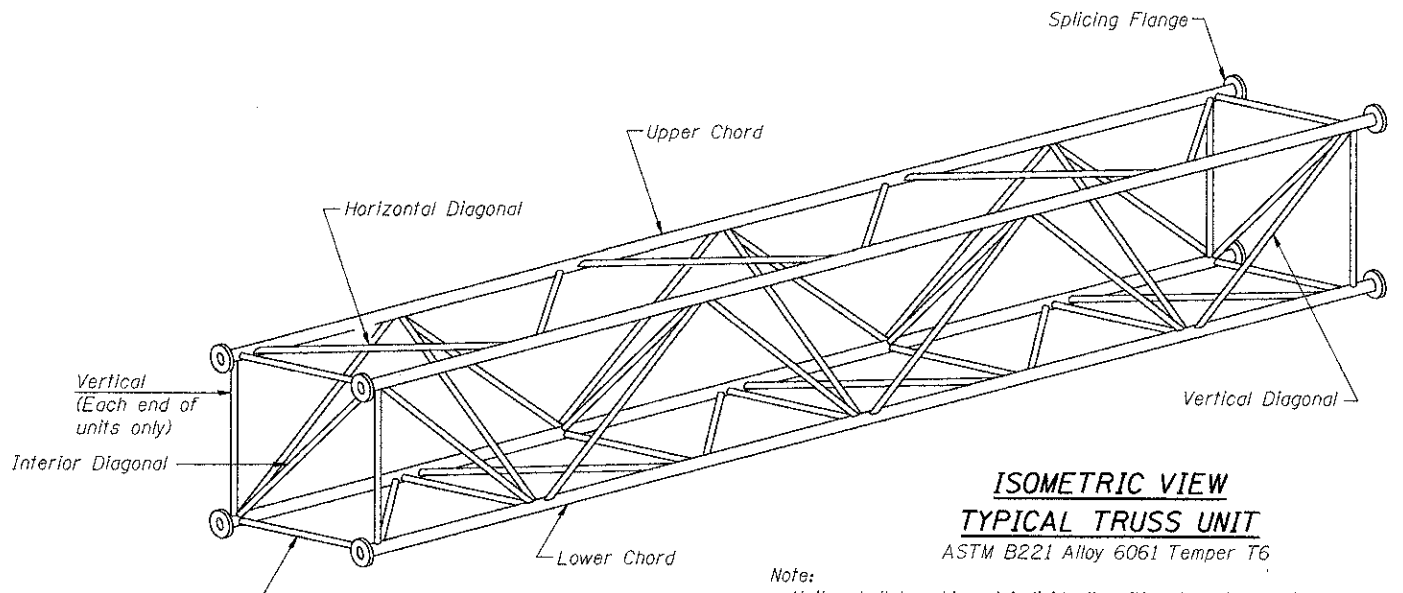
TRUSS UNIT TABLE

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 ₁				
BS0821070R001.5	147+60	III-A	6	32'-9"	5'-1 ³ / ₄ "	2	6	32'-1 ¹ / ₂ "	5'-1 ³ / ₄ "	7"	³ / ₈ "	3 ¹ / ₄ "	⁵ / ₁₆ "	3.65"	8	1"	⁹ / ₁₆ "	⁷ / ₁₆ "	11 ¹ / ₂ "	1'-3"		
BS0821070R002.2	188+00	I-A	7	36'-3 ¹ / ₂ "	4'-11"	0	-	-	-	5"	⁵ / ₁₆ "	2 ¹ / ₂ "	⁵ / ₁₆ "	1.8"	6	⁷ / ₈ "	⁵ / ₁₆ "	¹ / ₄ "	8 ³ / ₄ "	11 ³ / ₄ "		



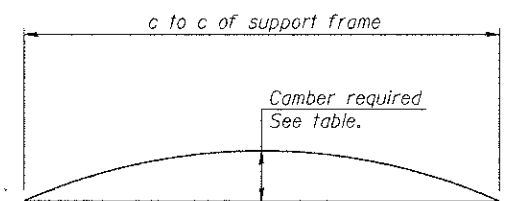
SECTION B-B

(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

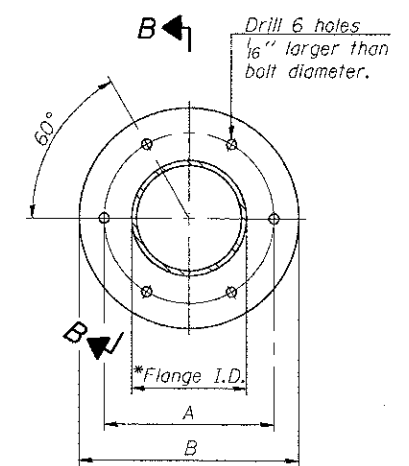
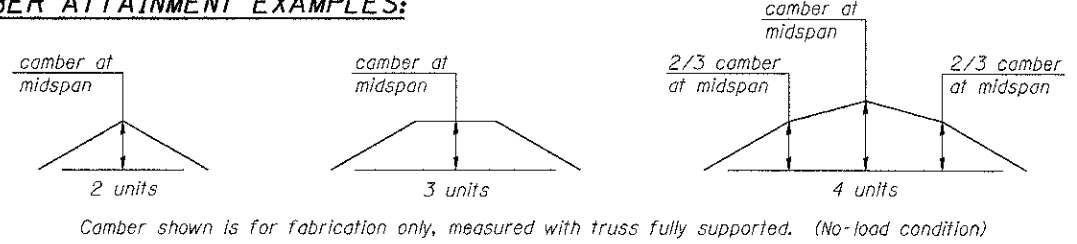
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



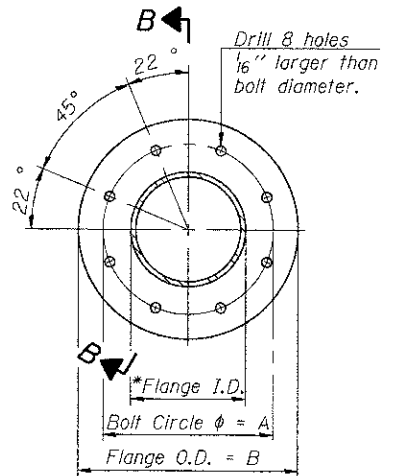
CAMBER DIAGRAM

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

CAMBER ATTAINMENT EXAMPLES:



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".

C:\CONNECTIONS\DESIGN\CAD\A08\PROJECTS\08-BRANDER\L101\DESIGN\STRUCTURE\FIGURE\FIGURE\08-SHT-SHENG\08-SHT-SHENG.DGN
 6-27-2012 9:56:25
 A:\5 2014\101\101.L101\DESIGN\STRUCTURE\FIGURE\FIGURE\08-SHT-SHENG\08-SHT-SHENG.DGN
 6-27-2012 9:56:25
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

OS4-A-2

6-1-12

FILE NAME =	USER NAME = #USER#
*FILEL#	DESIGNED - MDJ
	DRAWN - MDJ
	CHECKED - JLR
	DATE - 06/29/12
	REVISIONS -
	REVISIONS -
	REVISIONS -
	REVISIONS -

DESIGNED - MDJ	REVISIONS -
DRAWN - MDJ	REVISIONS -
CHECKED - JLR	REVISIONS -
DATE - 06/29/12	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

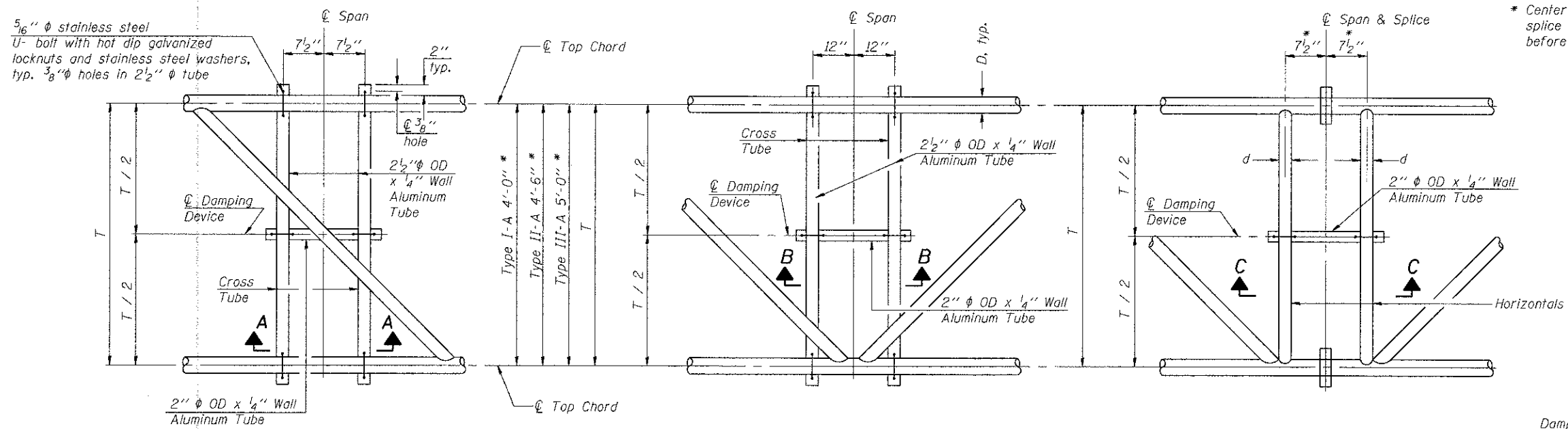
I-70 CONNECTION

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SCALE: SHEET NO. 3 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
998	82-1R	ST. CLAIR	294 182
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C43

OS-A-D 6-1-12
 FILE NAME = USER NAME = #USER#
 #FILE#.6 PLOT SCALE = #SCALE#
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS
 DESIGNED - MDJ
 DRAWN - MDJ
 CHECKED - JLR
 DATE - 06/29/12
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION
 OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE
 SCALE: SHEET NO. 4 OF 14 SHEETS STA. TO STA.
 F.A.P. RTE. 998 SECTION 82-1R COUNTY ST. CLAIR TOTAL SHEETS 294 SHEET NO. 183
 CONTRACT NO. 76C43
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



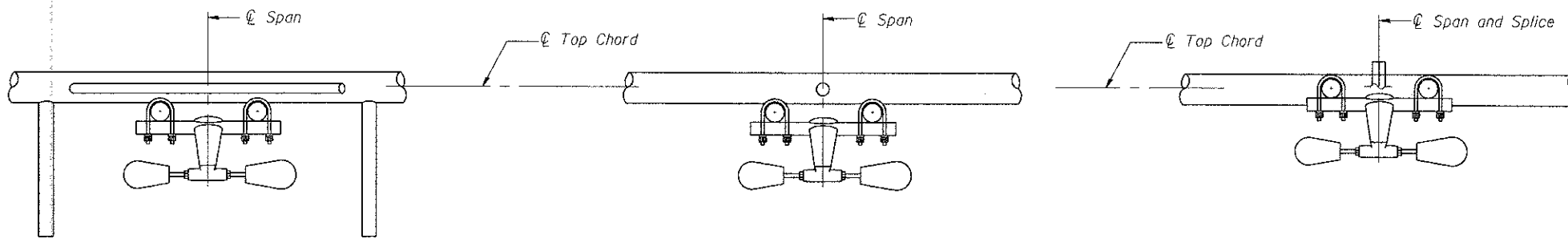
PLAN DETAIL "A"
Span between Panel Points

PLAN DETAIL "B"
Span at Panel Point

PLAN DETAIL "C"
Span at Chord Splice

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

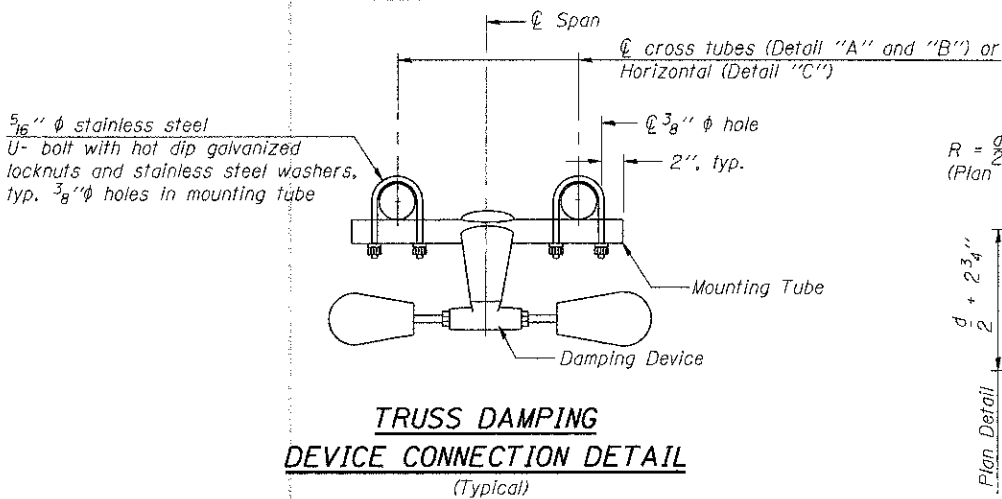
- NOTES**
- Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
- Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



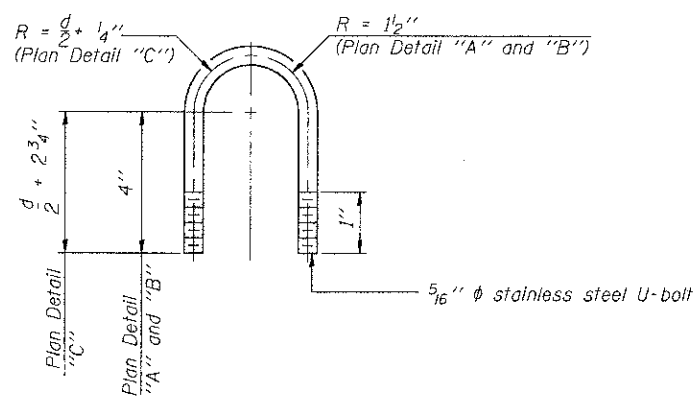
SECTION A-A

SECTION B-B

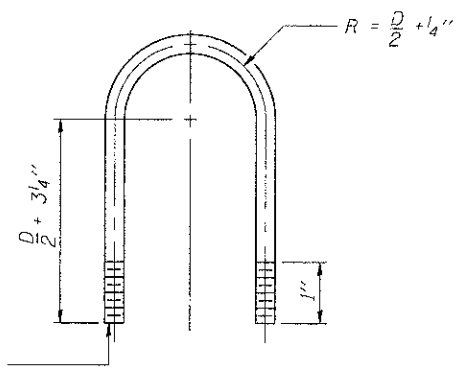
SECTION C-C



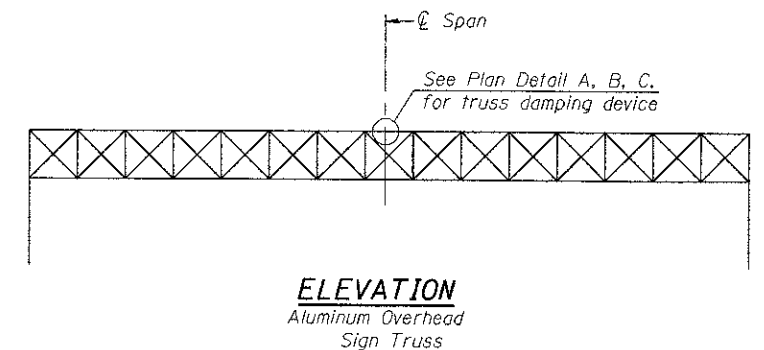
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

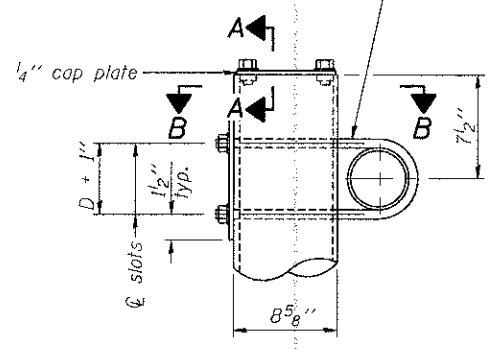


TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")

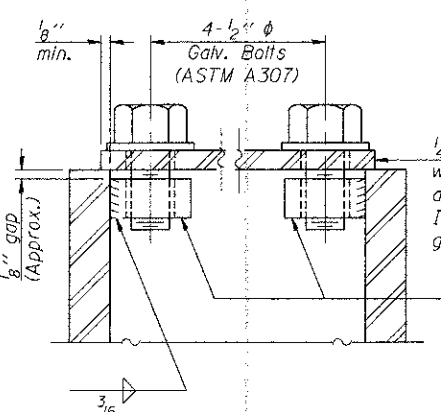


ELEVATION
Aluminum Overhead Sign Truss

$\frac{3}{4}$ " ϕ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
 $\frac{13}{16}$ " x 2" slots on ϕ 8" ϕ pipe.
(4 slots required per pipe)

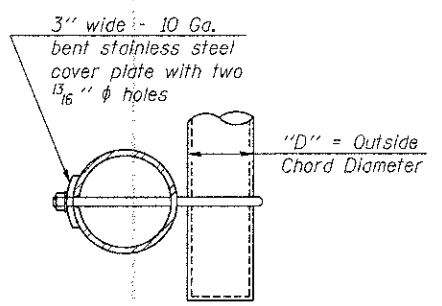


DETAIL A

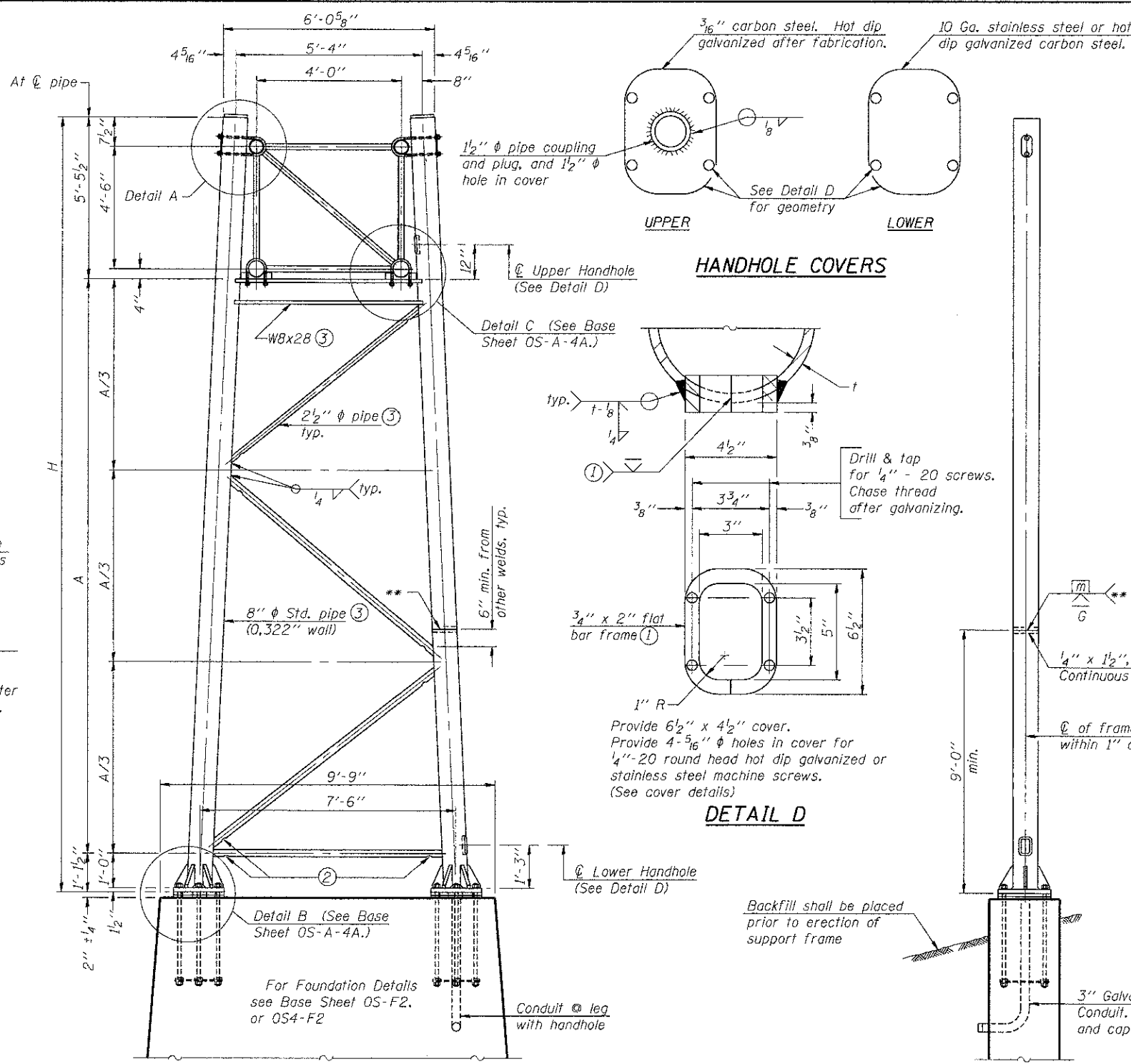


SECTION A-A

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

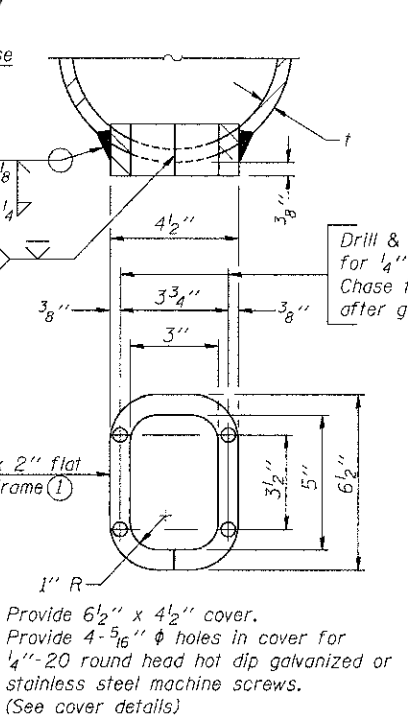


SECTION B-B



SIDE ELEVATION

HANDHOLE COVERS



DETAIL D

END ELEVATION

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

- ① 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 min or less.
- ② 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.
- ③ 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.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

8" ϕ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

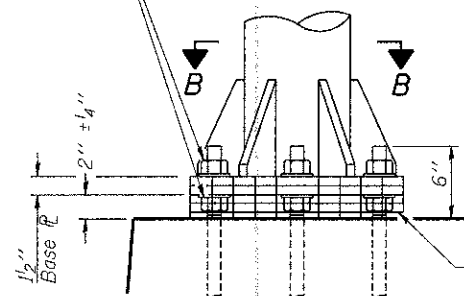
Structure Number	Station	Support		H ⑥	A
		Left	Right		
BS0821070R002.2	188+00	X	-	27'-10 $\frac{1}{4}$ "	21'-3 $\frac{1}{4}$ "
BS0821070R002.2	188+00	-	X	28'-1 $\frac{1}{4}$ "	21'-6 $\frac{1}{4}$ "

N:\WORK\08 RESIDENTIAL\CD\CONTRACT\STRUCTURE\08-01\STRUCTURE\CAD\01 DESIGN\STRUCTURE\SHEET\08-SHT-SIENSGC.DWG
 6/27/2012 10:55:00 AM JLR
 TENG & ASSOCIATES, INC.
 CHICAGO, ILLINOIS

OS-A-4

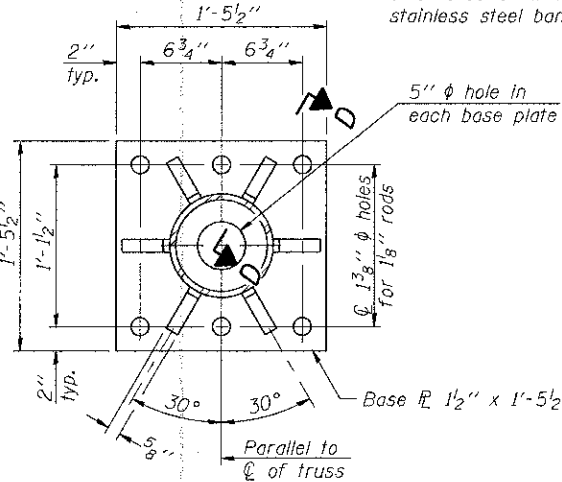
6-1-12

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

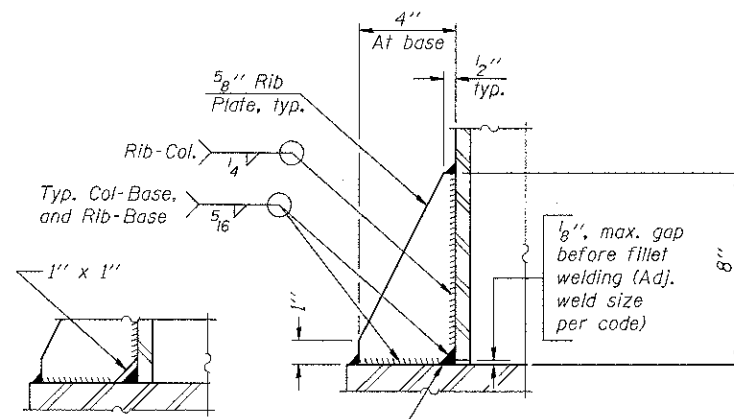


DETAIL B

Ribs shall be cut to fit slope of pipe. Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



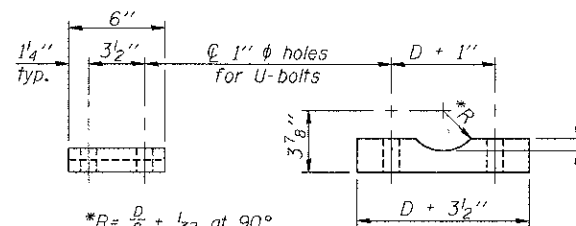
SECTION B-B



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.

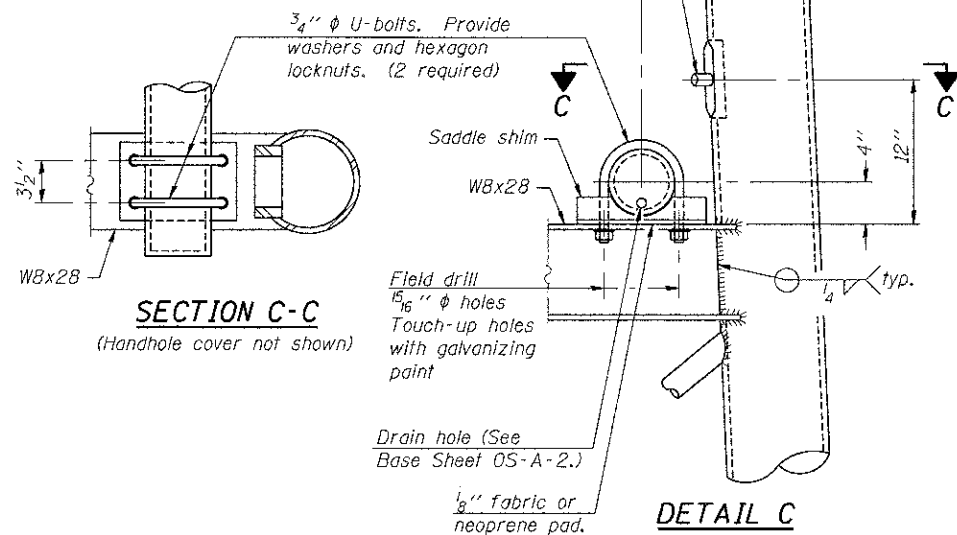
No snip req'd. at rib inside corner if placed before col. to base plate welding.**



SADDLE SHIM DETAIL

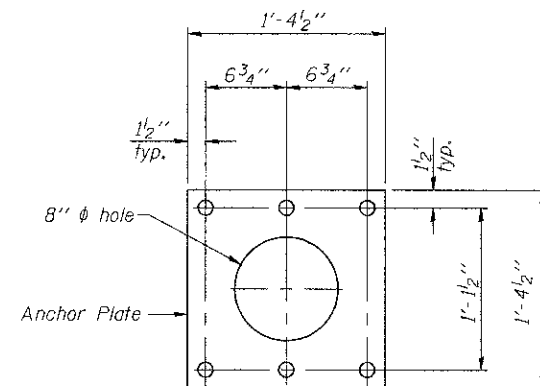
ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

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

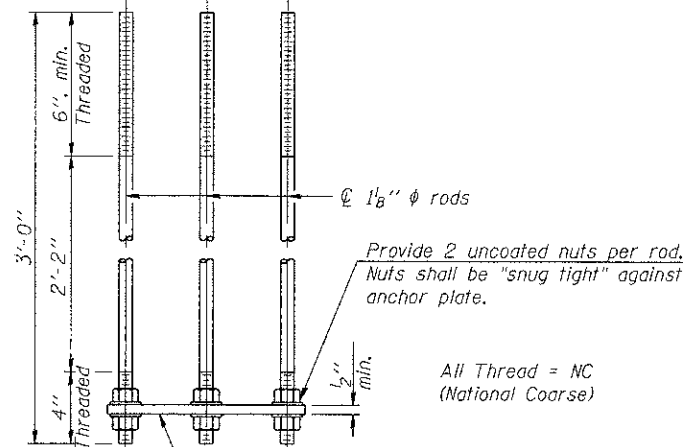


SECTION C-C

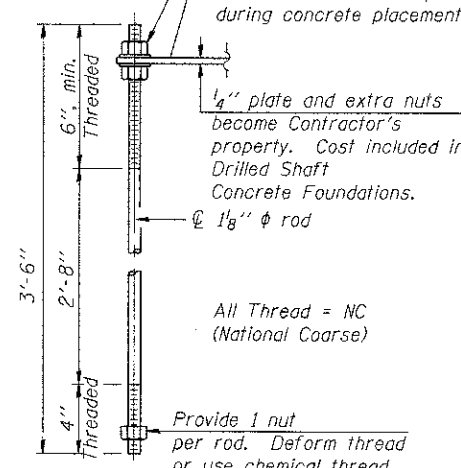
DETAIL C



Anchor Plate

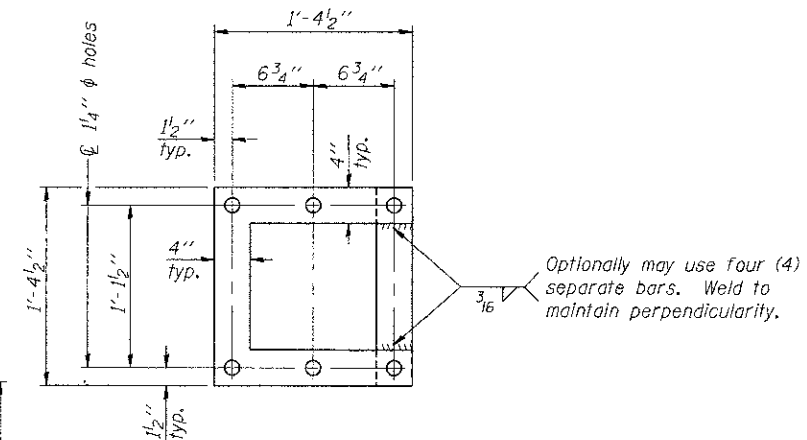


ANCHOR ROD DETAIL
Spread Footing Foundation



ANCHOR ROD DETAIL
Drilled Shaft Foundation

POSITIONING PLATE(S)



Optionally may use four (4) separate bars. Weld to maintain perpendicularity.

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.

1/4" plate and extra nuts become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.

All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

All Thread = NC (National Coarse)

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE I-A TRUSS
8" φ PIPE SUPPORT FRAME DETAILS

OS-A-4A

6-1-12

FILE NAME	USER NAME	DESIGNED	REVISED
#FILE#	#USER#	MDJ	
		DRAWN	REVISED
		MDJ	
		CHECKED	REVISED
		JLR	
		DATE	REVISED
		06/29/12	

SCALE	SHEET NO.	OF	TOTAL SHEETS
	6	OF	14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-TO CONNECTION

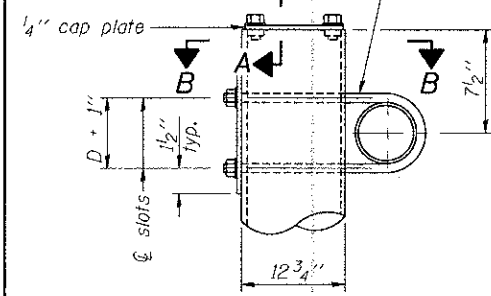
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SCALE: SHEET NO. 6 OF 14 SHEETS STA. TO STA.

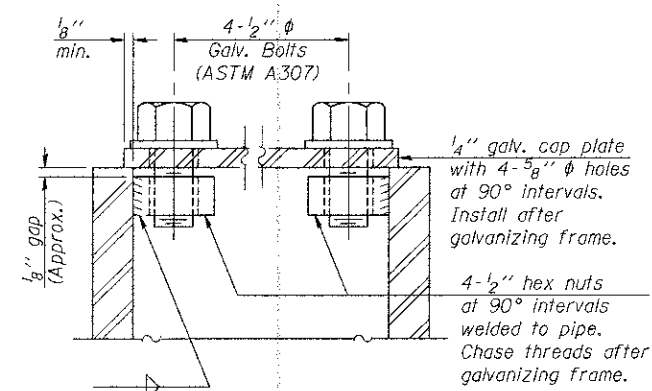
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	185
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

OS-A-4A DESIGN: DGN., ...
 6-27-2012, 15:58:36
 BONDHOLD
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
13/16" x 2" slots on 12" φ pipe.
(4 slots required per pipe)

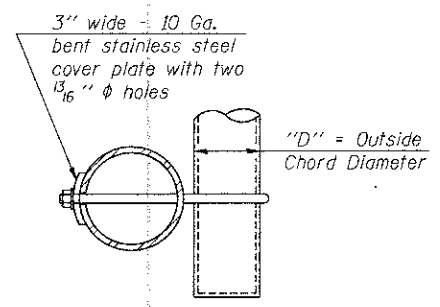


DETAIL A

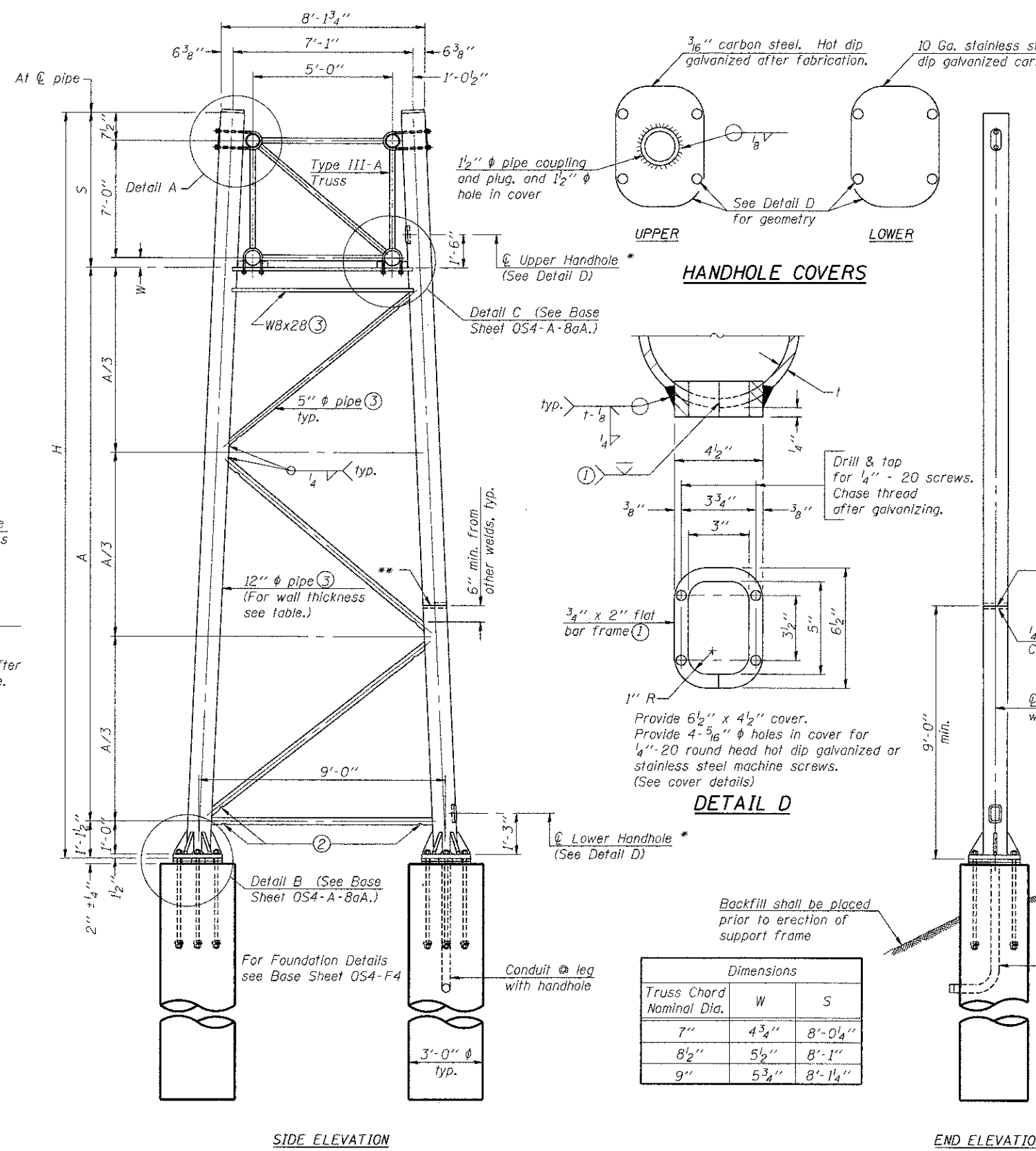


SECTION A-A

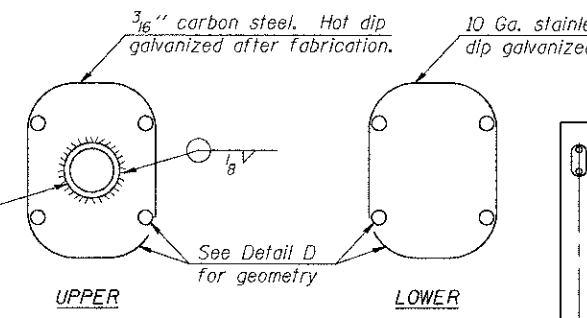
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



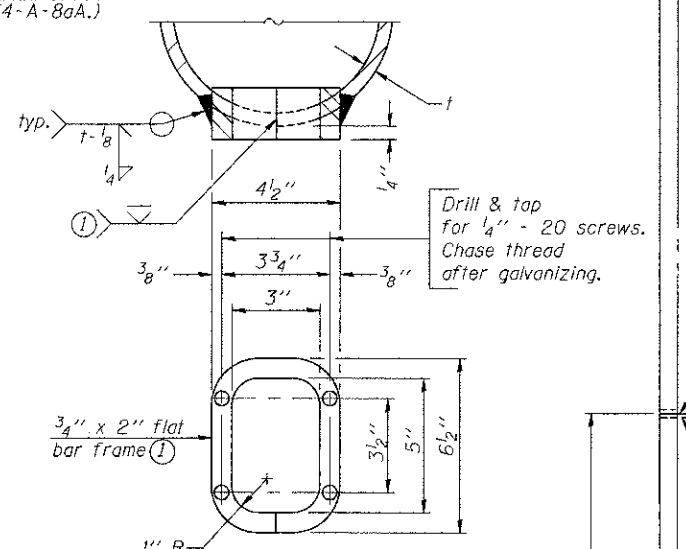
SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS



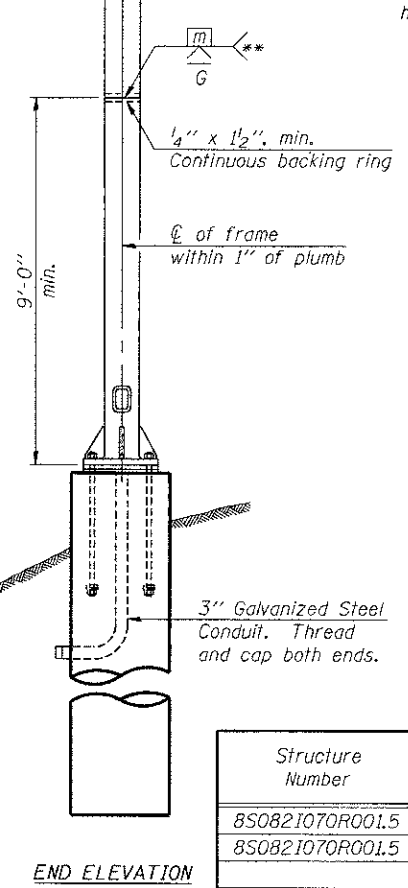
DETAIL D

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

TRUSS SUPPORT DETAILS

(12" φ Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



END ELEVATION

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

- ① 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 min or less.
 - ② 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.
 - ③ 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.
 - ④ See General Notes for fasteners.
 - ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
 - ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.
- * For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
BS0821070R001.5	147+60	X	-	0.33	29'-11 1/2"	20'-9 3/4"
BS0821070R001.5	147+60	-	X	0.33	33'-10"	24'-8 1/4"

6-27-2012 9:05:37 AM C:\WORK\08 DESIGN\08 STRUCTURE\08 DESIGN\08 STRUCTURE SHEET\08-SHT-SIGN-08A.DWG
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OS4-A-8a

6-1-12

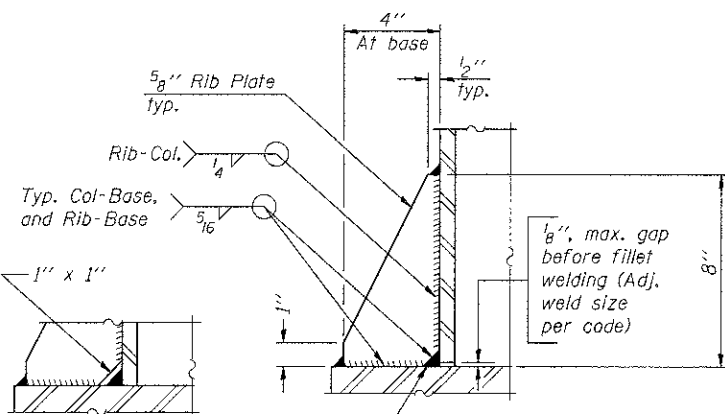
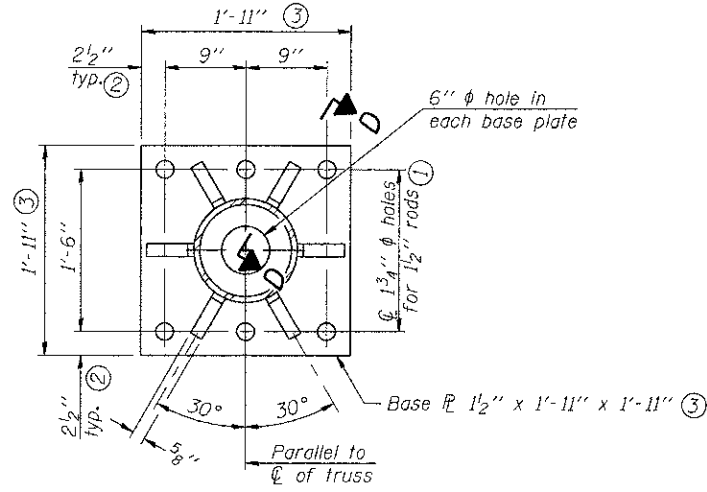
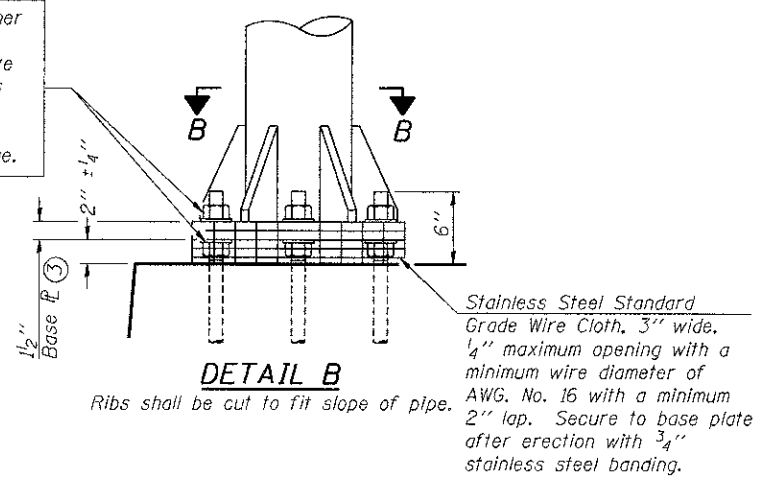
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#FILE#		DRAWN - MDJ	REVISED -
PLOT SCALE = #SCALE#		CHECKED - JLR	REVISED -
PLOT DATE = #DATE#		DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
1-70 CONNECTION

OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS
SCALE: SHEET NO. 7 OF 14 SHEETS STA. TO STA.

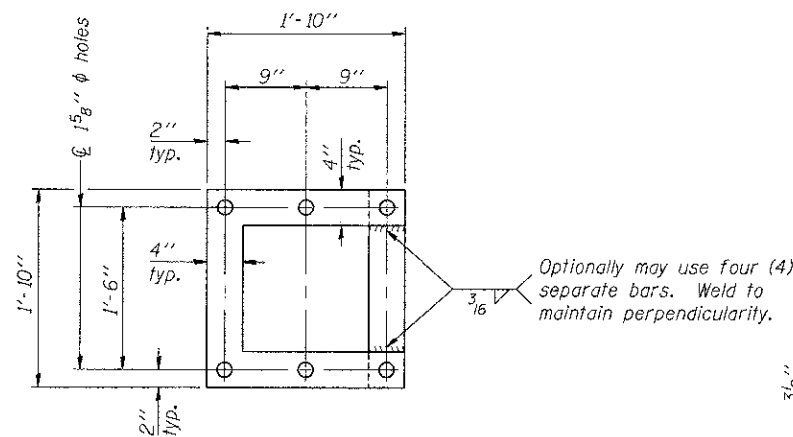
F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 186
FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 76C43	

Hexagon locknut and washer (top), leveling nut and washer (bottom), Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

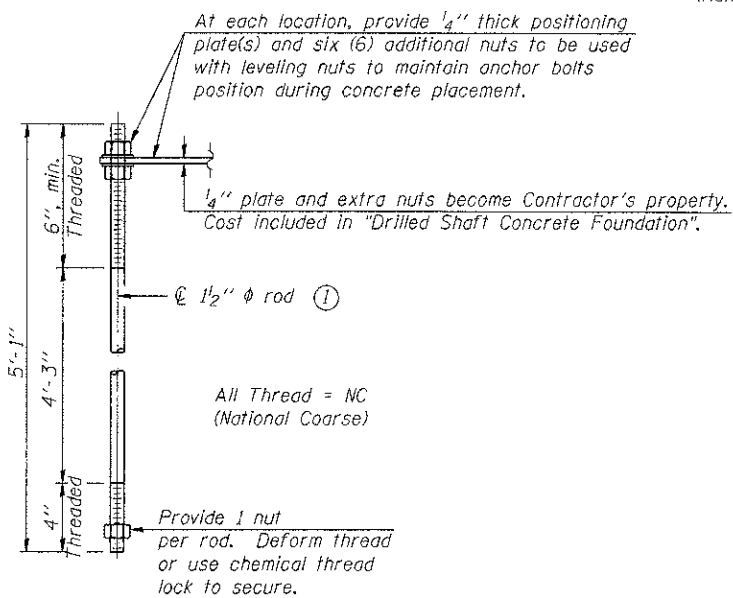


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

SECTION D-D



POSITIONING PLATE(S)



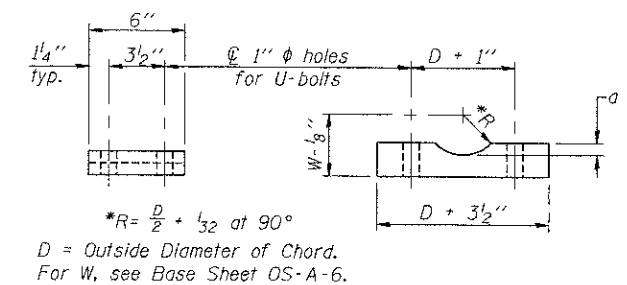
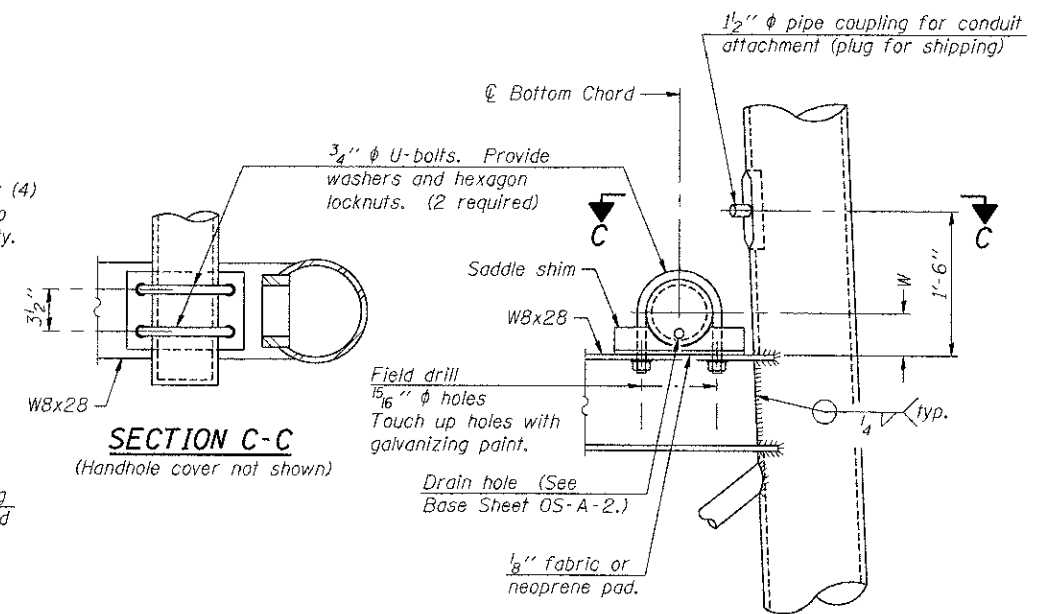
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS
12" ϕ PIPE SUPPORT FRAME DETAILS**

Notes:
For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

- ① 1 3/4" ϕ rod, 2" ϕ holes
- ② 2 3/4" edge distance
- ③ Base Pl. 1 5/8" x 1 1/2" x 1 1/2"



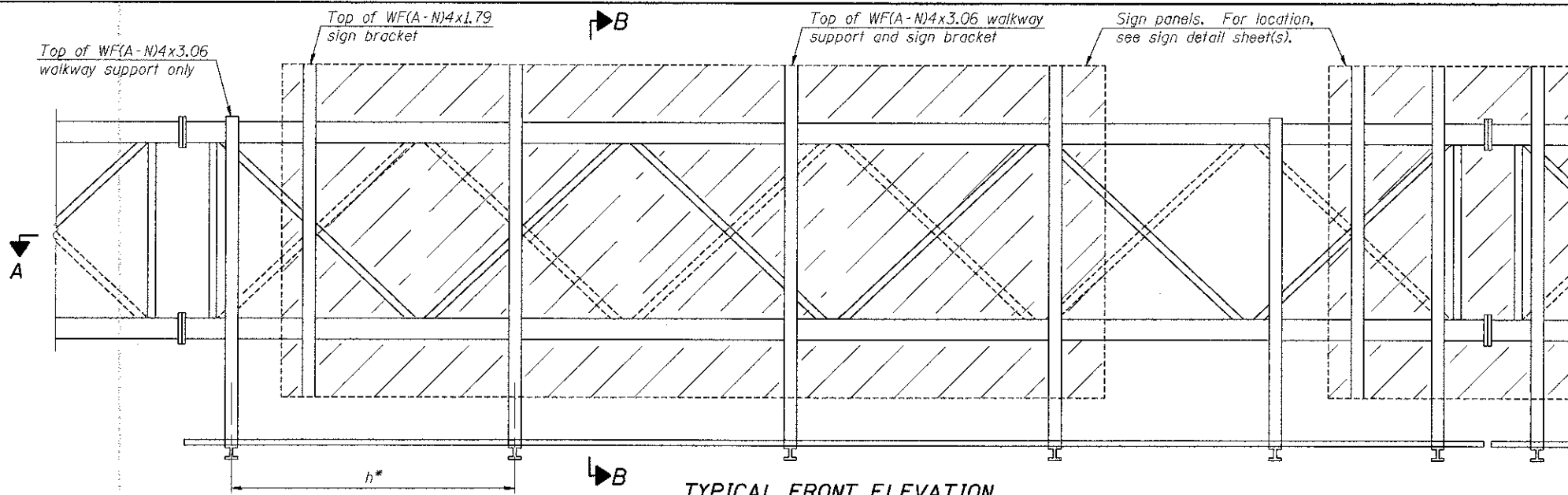
Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

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

OS4-A-8aA

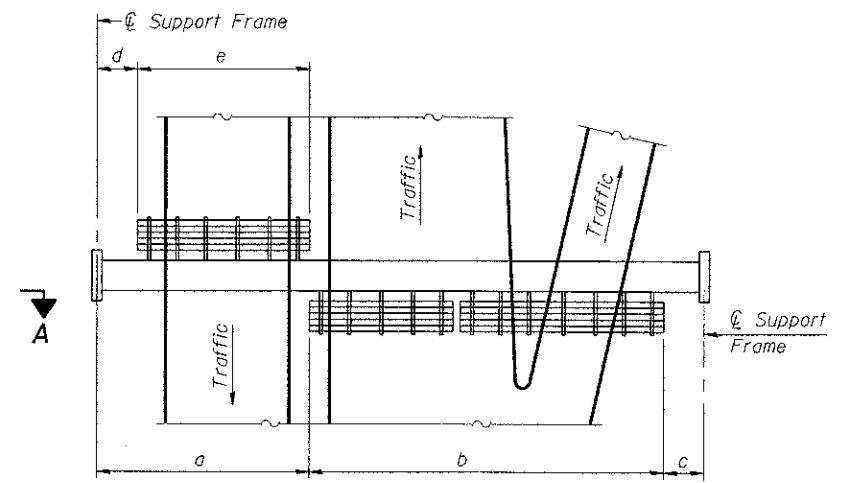
6-1-12

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	#USER#	MDJ		1-70 CONNECTION		SHEET NO. 8 OF 14 SHEETS STA.		998	82-1R	ST. CLAIR	294	187
DESIGNED - MDJ	CHECKED - JLR	DATE - 06/29/12	REVISED -	SCALE:		TO STA.		CONTRACT NO. 76C43				
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS				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)

BRACKET TABLE

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

Notes:

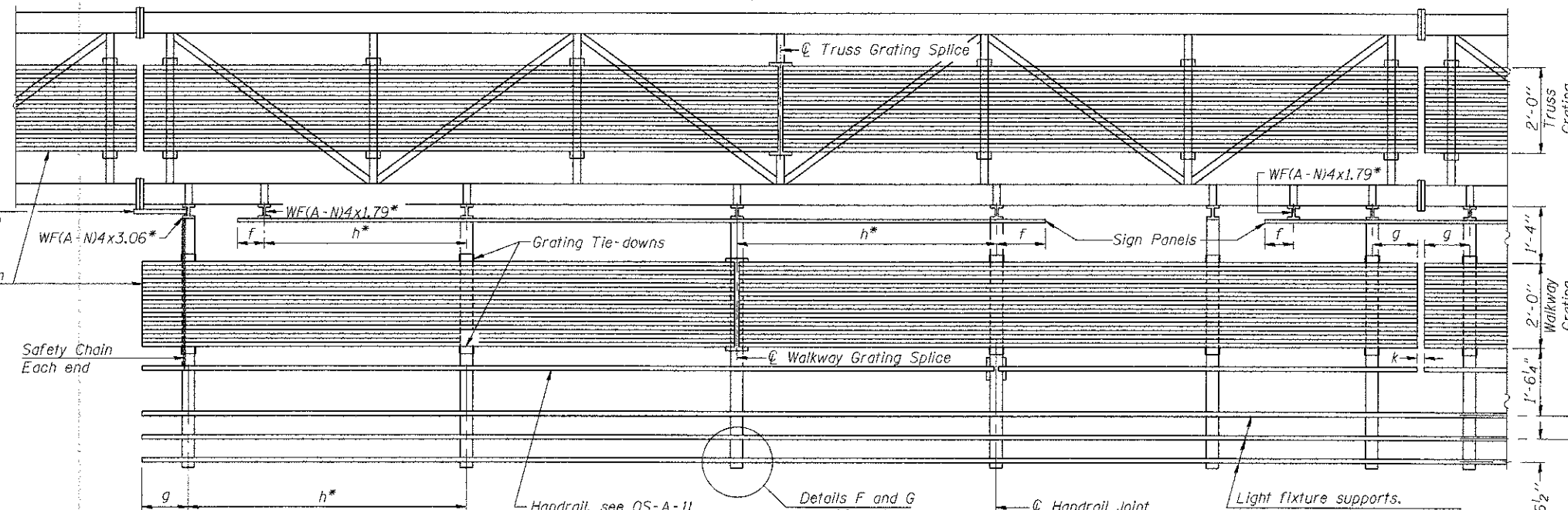
* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

- f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)
- h = 6'-0" maximum (center to center 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

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.



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.

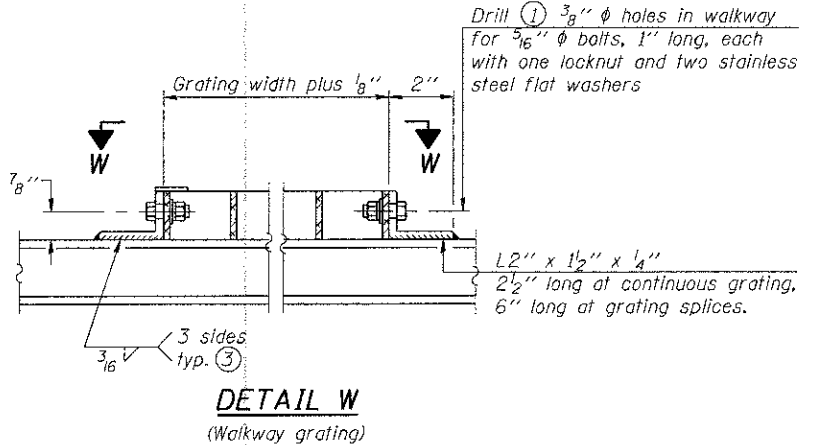
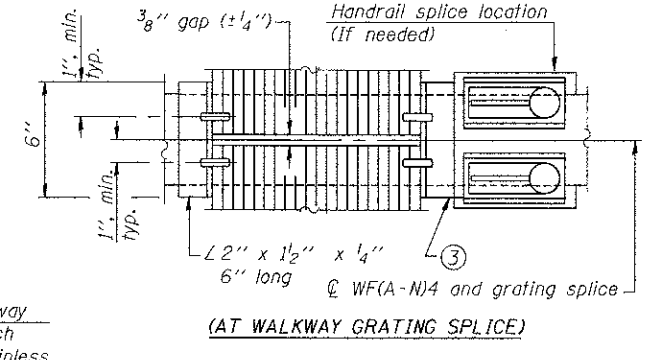
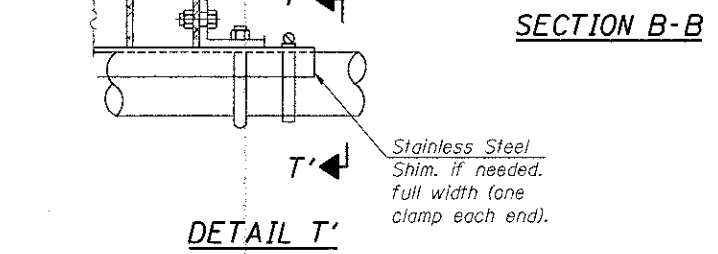
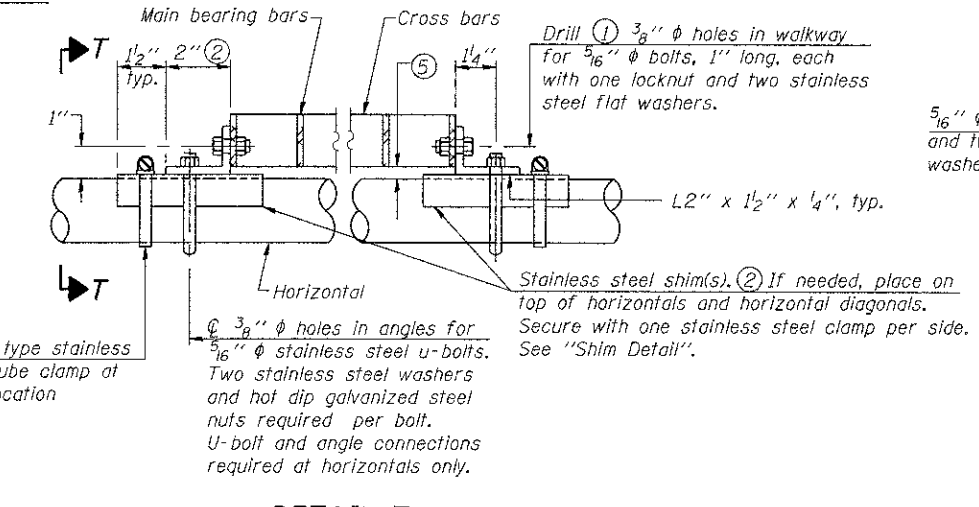
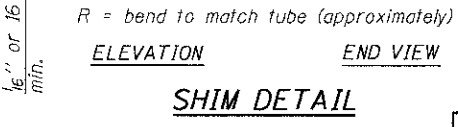
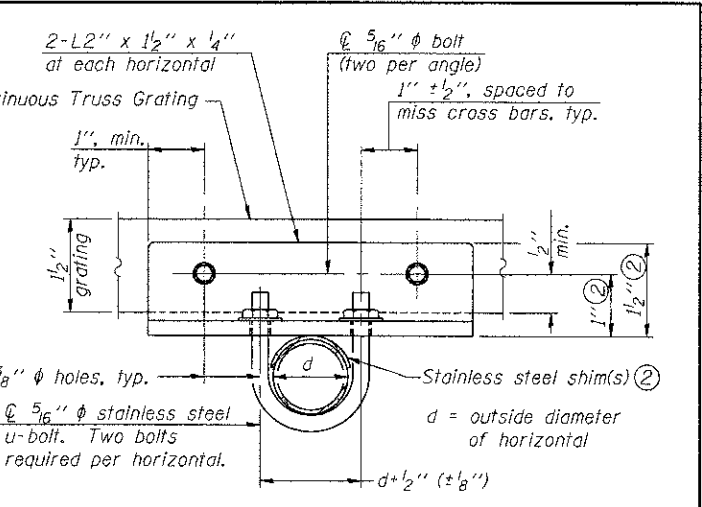
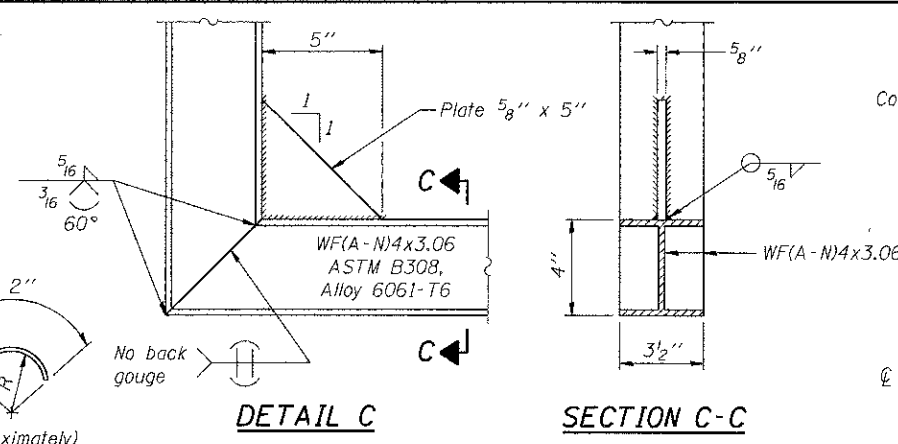
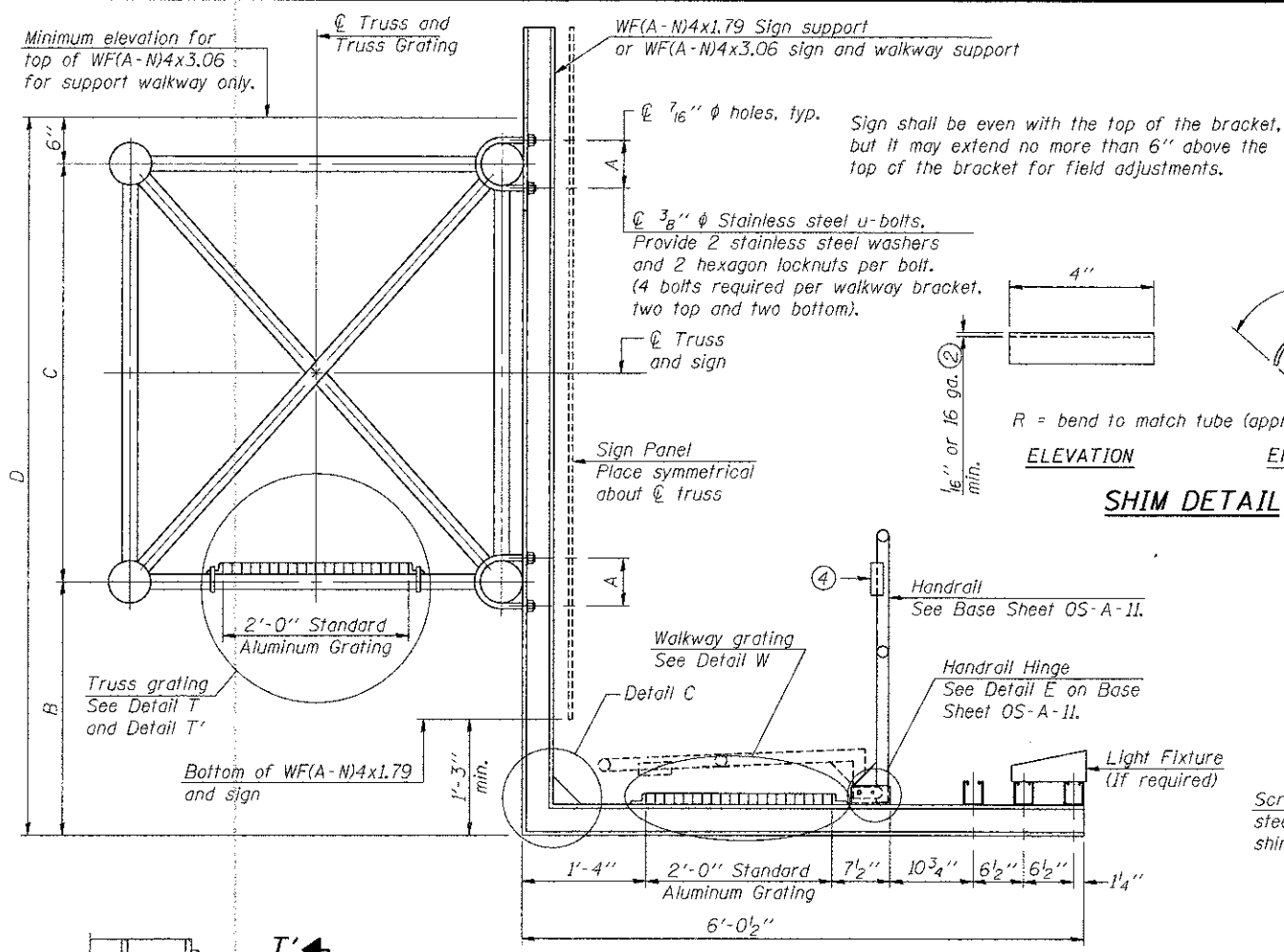
Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
8S0821070R001.5	147+60	76'-9"	36'-9"	14'-6"	18'-6"	40'-0"	76'-9"
8S0821070R002.2	188+00	10'-2"	47'-11"	12'-11"	-	-	47'-11"

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".

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

OS-A-9
 FILE NAME = USER NAME = #USER#
 #FILE#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#
 DESIGNED - MDJ
 DRAWN - MDJ
 CHECKED - JLR
 DATE - 06/29/12
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION
 OVERHEAD SIGN STRUCTURES
 ALUMINUM WALKWAY DETAILS
 SCALE: SHEET NO. 9 OF 14 SHEETS STA. TO STA.
 F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 998 82-1R ST. CLAIR 294 188
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 76C43

OS-A-9 6-1-12



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
BS0821070R001.5 - EB	147+60	7 1/2"	1'-9"	7'-0"	9'-3"
BS0821070R001.5 - WB	147+60	7 1/2"	7'-0"	7'-0"	9'-3"
BS0821070R002.2	188+00	5 1/2"	7'-3"	4'-6"	12'-3"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-II.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

6-27-2012, 15:56:56 BONDPROD \15-2804\VALLEY T.D. TRIMS, 8712282-28658-881\STRUCTURE.CHDR\DESIGN\SIGN\STRUCTURE SHEET\OSCONN-08-SHT-SUNSHODN

OS-A-10

6-1-12

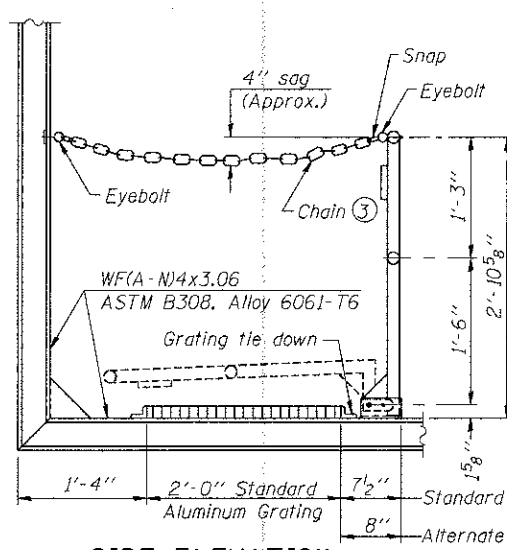
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#FILE#		DRAWN - MDJ	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - JLR	REVISED -
	PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

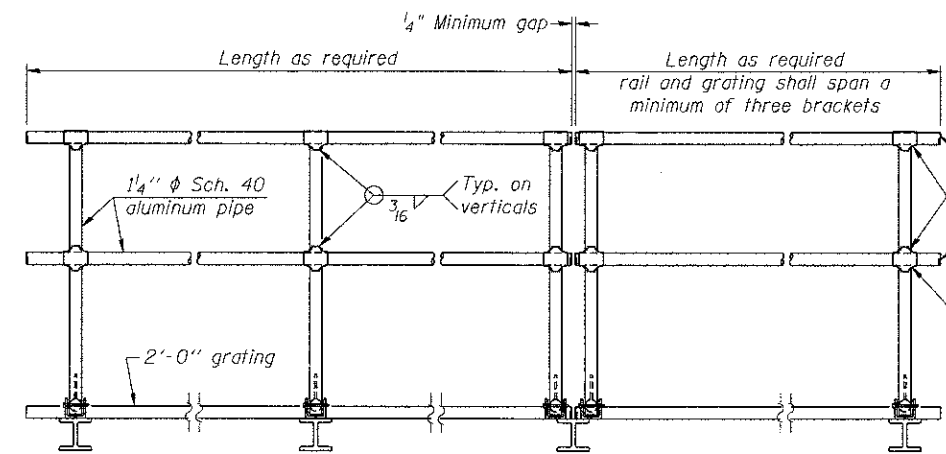
OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS
SCALE:
SHEET NO. 10 OF 14 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	189
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 76C43

FILE NAME =	USER NAME = #USER#	DESIGNED - MDJ	REVISED -
#FILE#		DRAWN - MDJ	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - JLR	REVISED -
	PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -



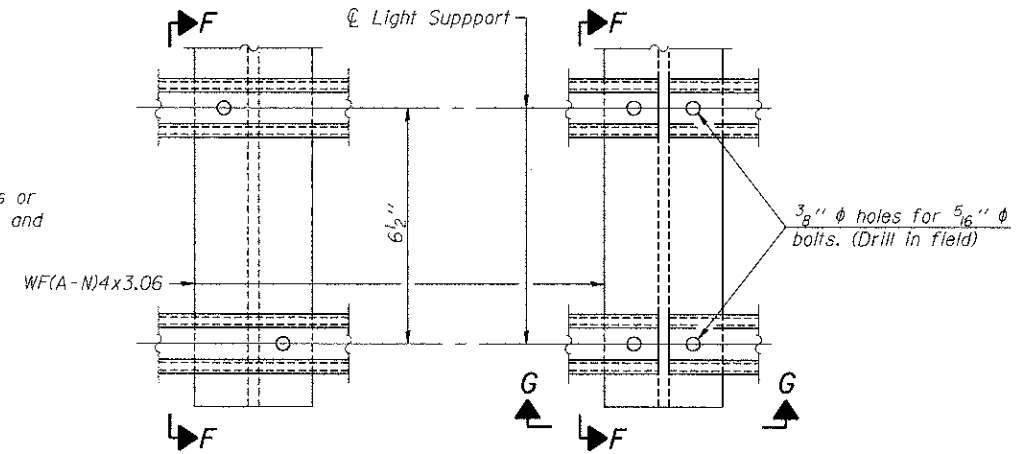
SIDE ELEVATION
(Showing safety chain w/o sign)



HANDRAIL DETAILS

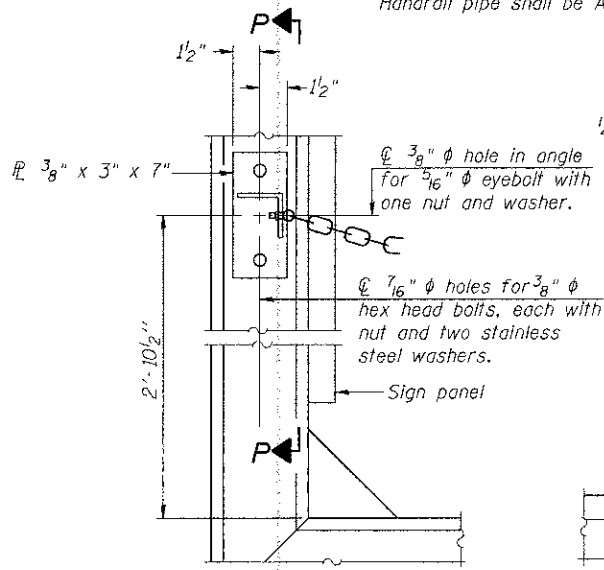
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- 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 7/16" 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 5/16" eyebolts in 7/16" holes on top rail at ends only.)



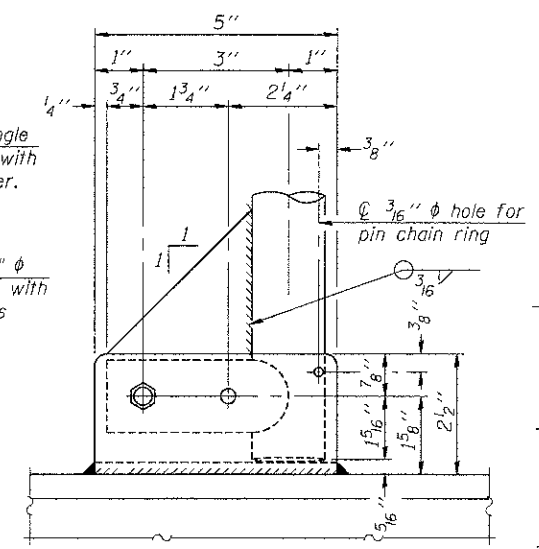
DETAIL F

DETAIL G

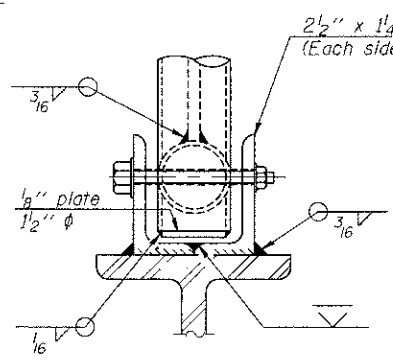


ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"

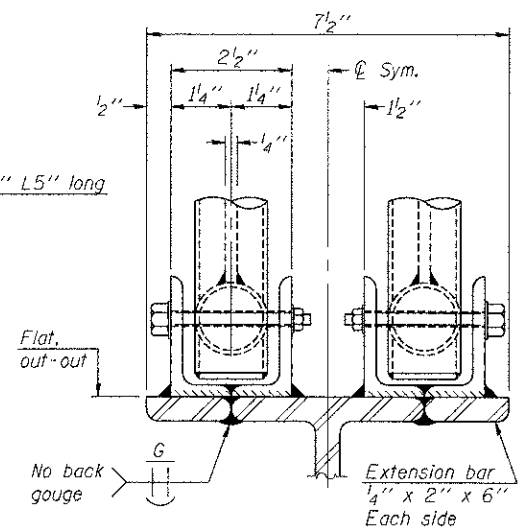


SIDE ELEVATION

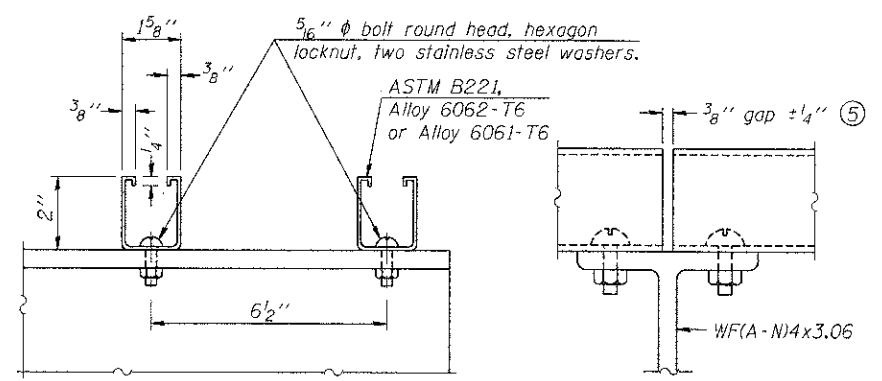


FRONT ELEVATION

See "Elevation" at right for dimensions.



ELEVATION AT HANDRAIL JOINT ④

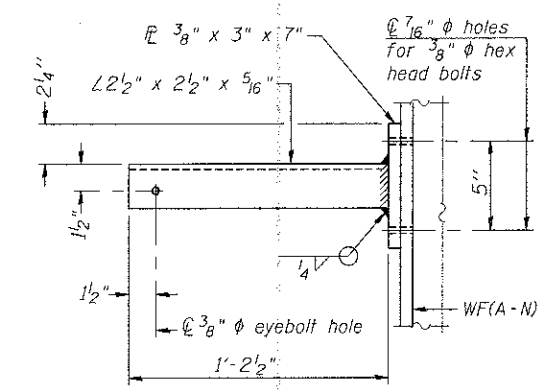


SECTION F-F

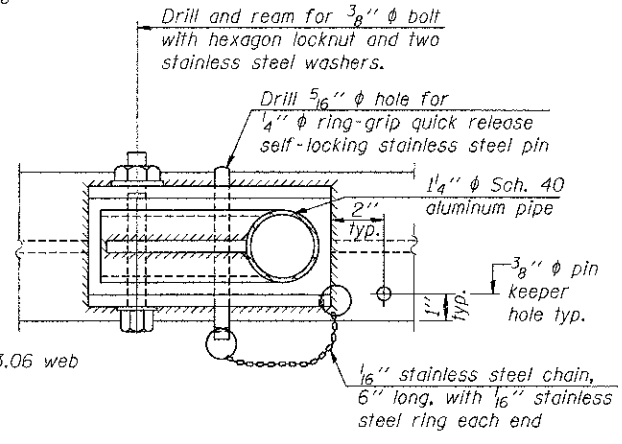
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

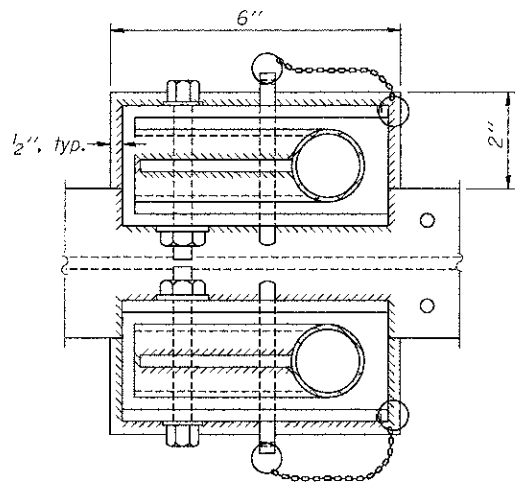
- ⑤ Field cut ends of light support channels shall be free of burrs and hazardous projections and coated with zinc-rich primer or equivalent.



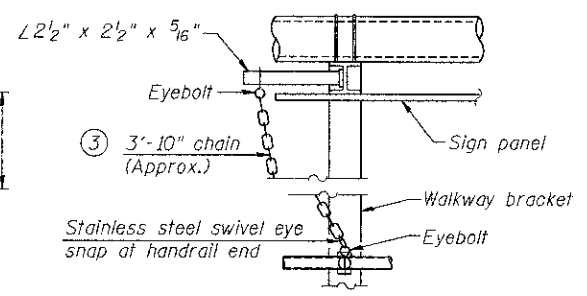
SECTION P-P



**PLAN
DETAIL E HANDRAIL HINGE**

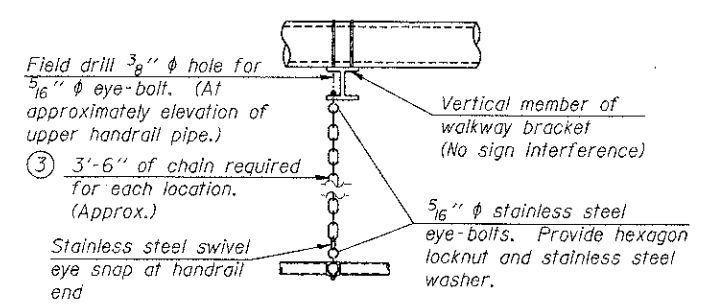


PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

- ③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



SAFETY CHAIN

One required for each end of each walkway.

FILE NAME = OS-A-11 USER NAME = USER# DESIGNED - MDJ REVISED - DRAWN - MDJ REVISED - CHECKED - JLR REVISED - DATE - 06/29/12 REVISED -
 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS
 62-27-2012 9:55:55 AM VALL I.P. TRANS. 0712292-28868-0801 STRUCT. CAD/311 DESIGN/STRUCTURE/LIBR. SHEET/DESIGN/08_SHT - SIGN/BLDGR

OS-A-11

6-1-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	190
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C43	

SCALE: SHEET NO. 11 OF 14 SHEETS STA. TO STA.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 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.

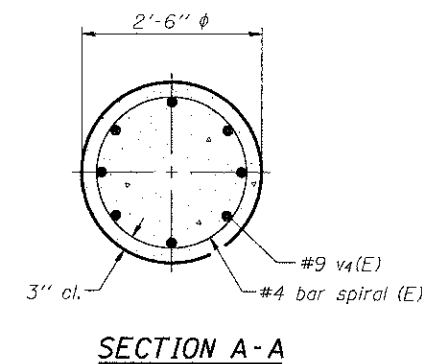
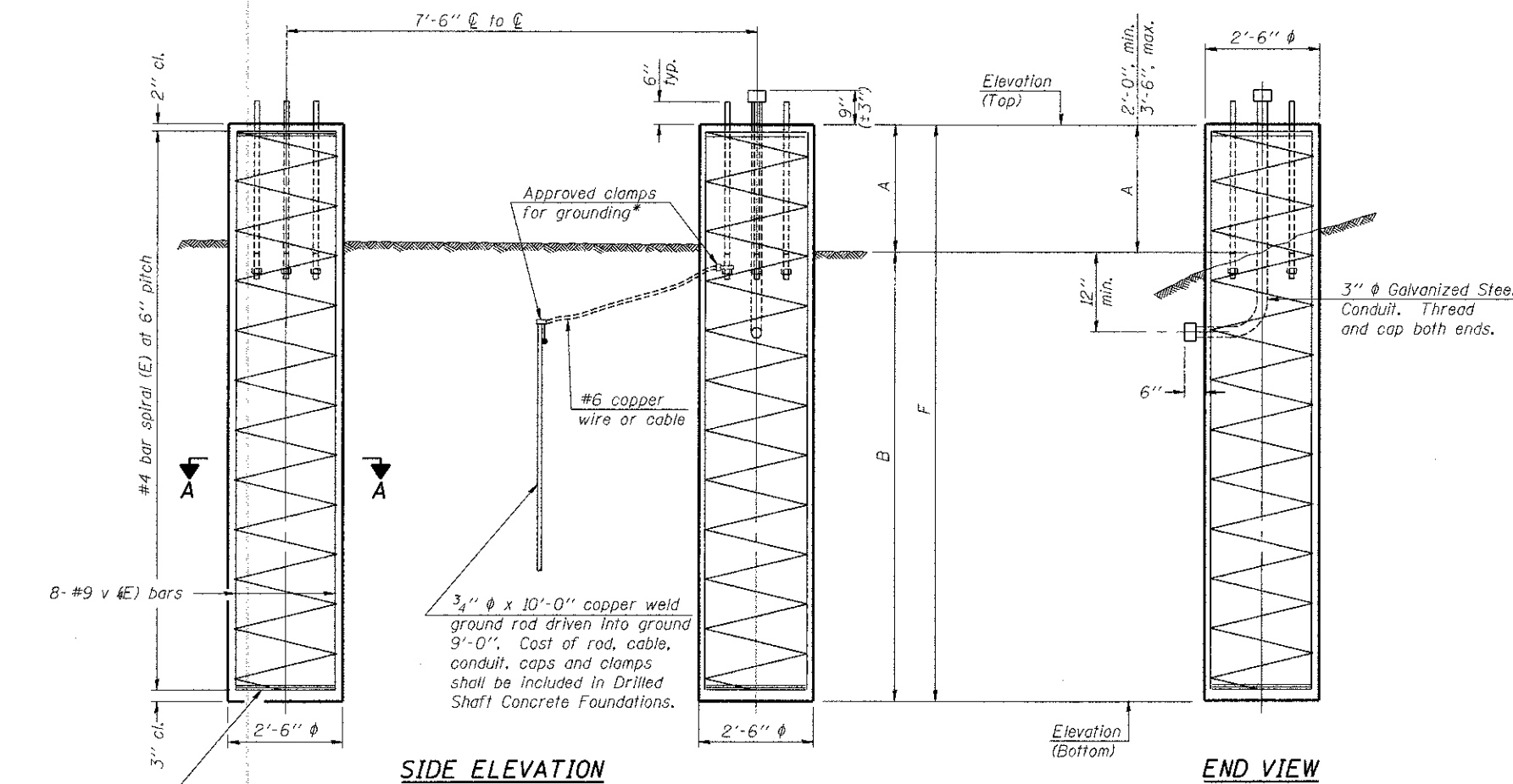
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

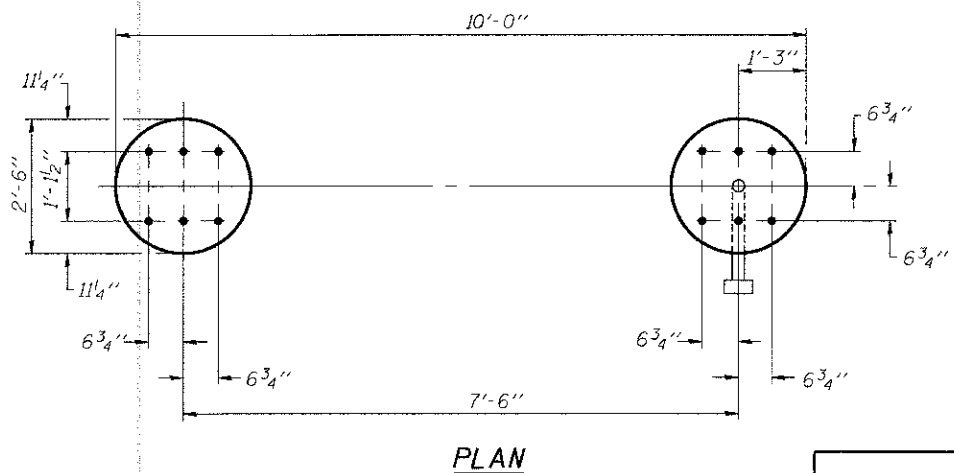
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

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 Drilled Shaft Concrete Foundation.



3 hoops minimum top and bottom



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.

DETAILS FOR 8" Ø SUPPORT FRAME TYPE I-A TRUSS

Structure Number	Station	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)		
		Elevation Top	Elevation Bottom	F	Elevation Top	Elevation Bottom	F			
850821070R002.2	188+00	-	-	-	436.77	418.27	2'-0"	16'-6"	18'-6"	6.7

OS4-F2 6-1-12

FILE NAME = USER NAME = #USER#
 #FILE#
 PLOT SCALE = #SCALE#
 PCT DATE = #DATE#

DESIGNED - MDJ
 DRAWN - MDJ
 CHECKED - JLR
 DATE - 06/29/12

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SCALE: SHEET NO. 12 OF 14 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 191
CONTRACT NO. 76C43			ILLINOIS FED. AID PROJECT	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 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.

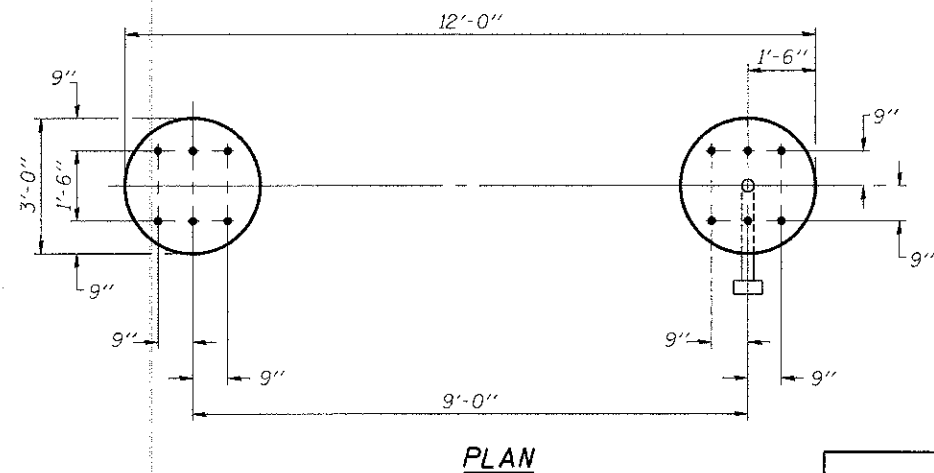
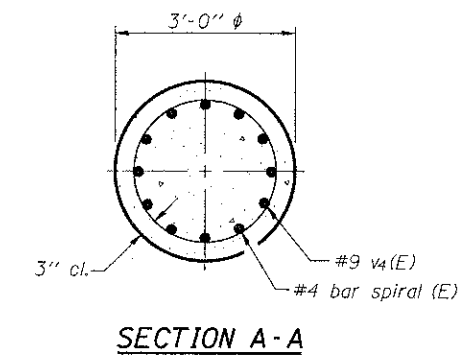
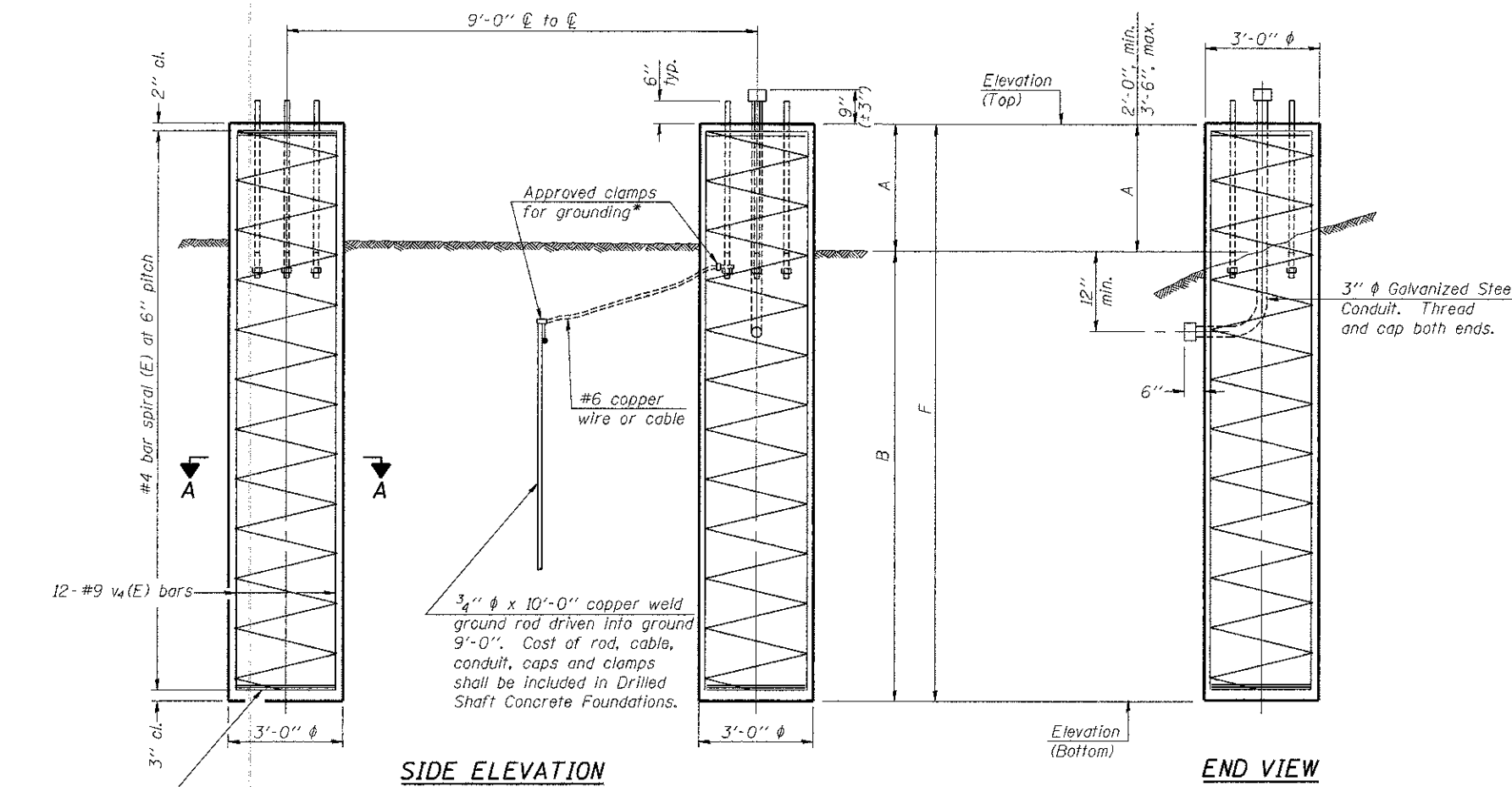
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

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 Drilled Shaft Concrete Foundation.



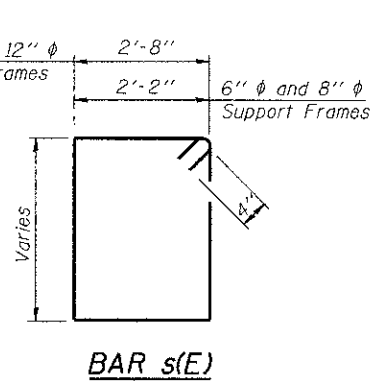
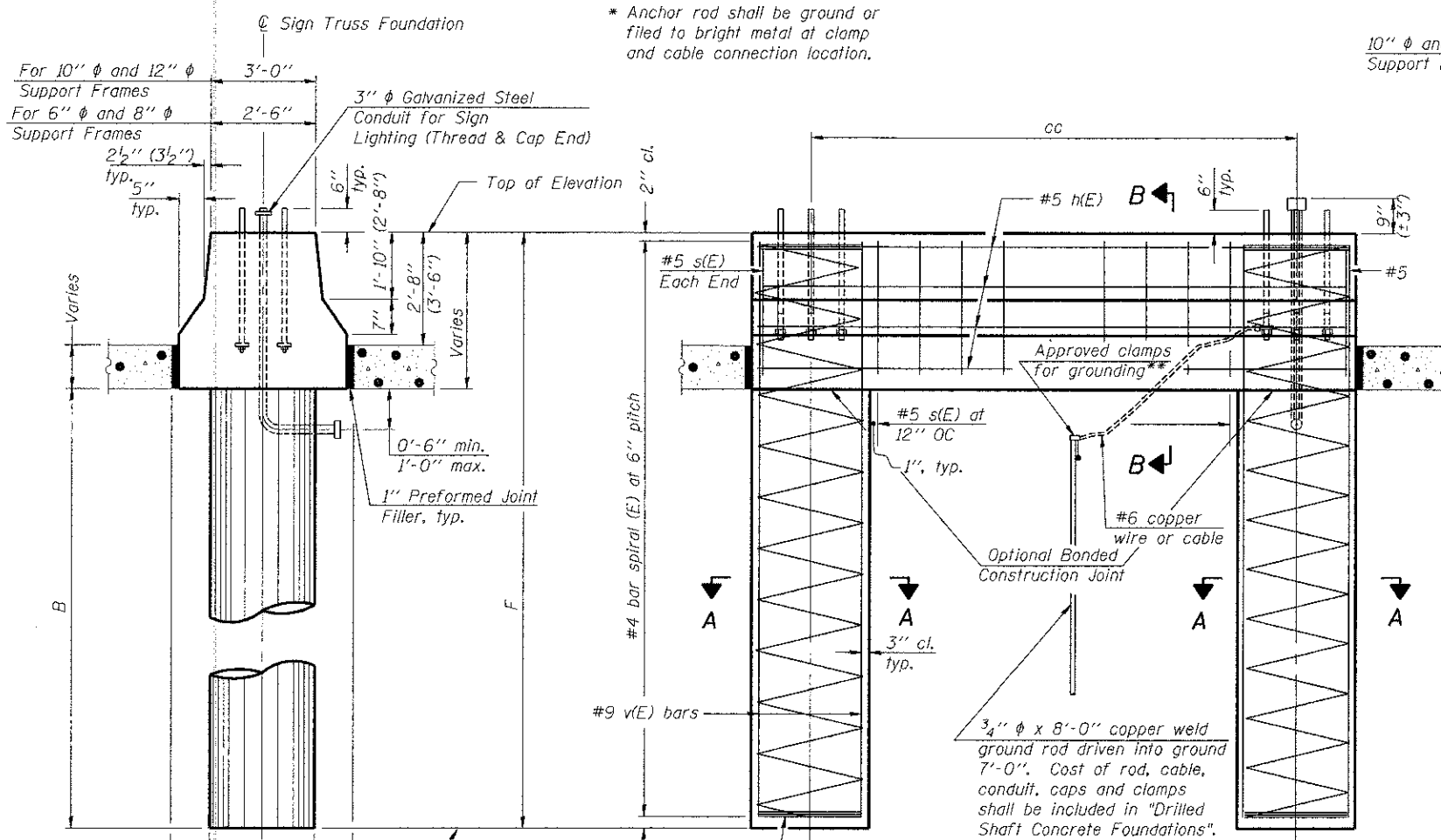
For anchor rod size and placement, see Support Frame Detail Sheet.

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

**DETAILS FOR 12" Ø SUPPORT FRAME
TYPE III-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
BS0821070R001.5	147+60	426.98	399.98	2'-0"	25'-0"	27'-0"	423.12	395.12	3'-0"	25'-0"	28'-0"	28.8

OS4-F4 6-1-12



NOTES:
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Q_u) of at least 1.25 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.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
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 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 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 Drilled Shaft Concrete Foundation.

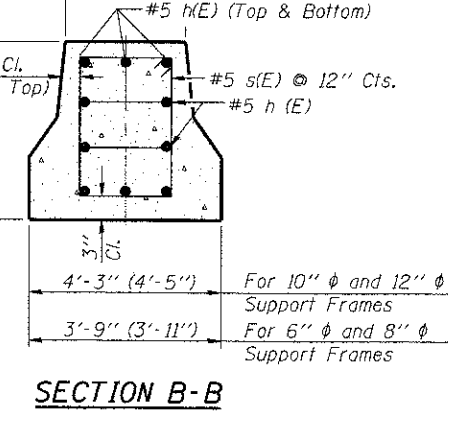
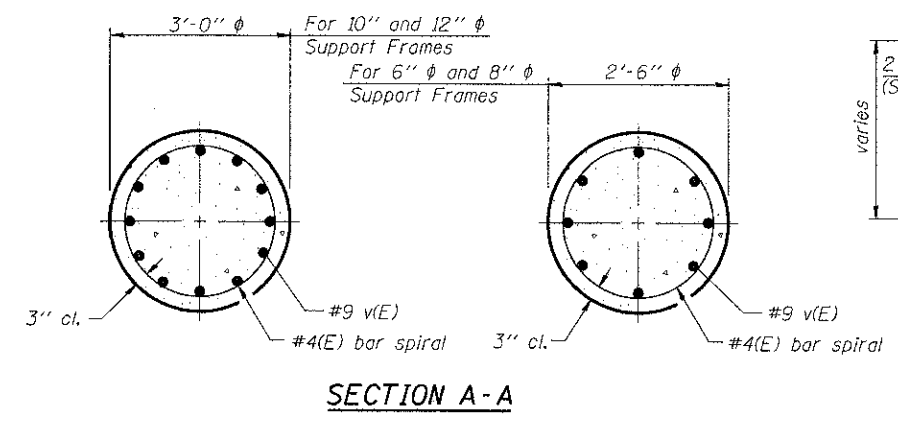
BAR LIST - EACH FOUNDATION

Pipe Support Frames	cc	M	a	a/2
6"φ	7'-0"	9'-6"	0'-11"	5 1/2"
8"φ	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"φ	8'-3"	11'-3"	1'-3"	7 1/2"
12"φ	9'-0"	12'-0"	1'-6"	9"

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral - see Side Elevation				

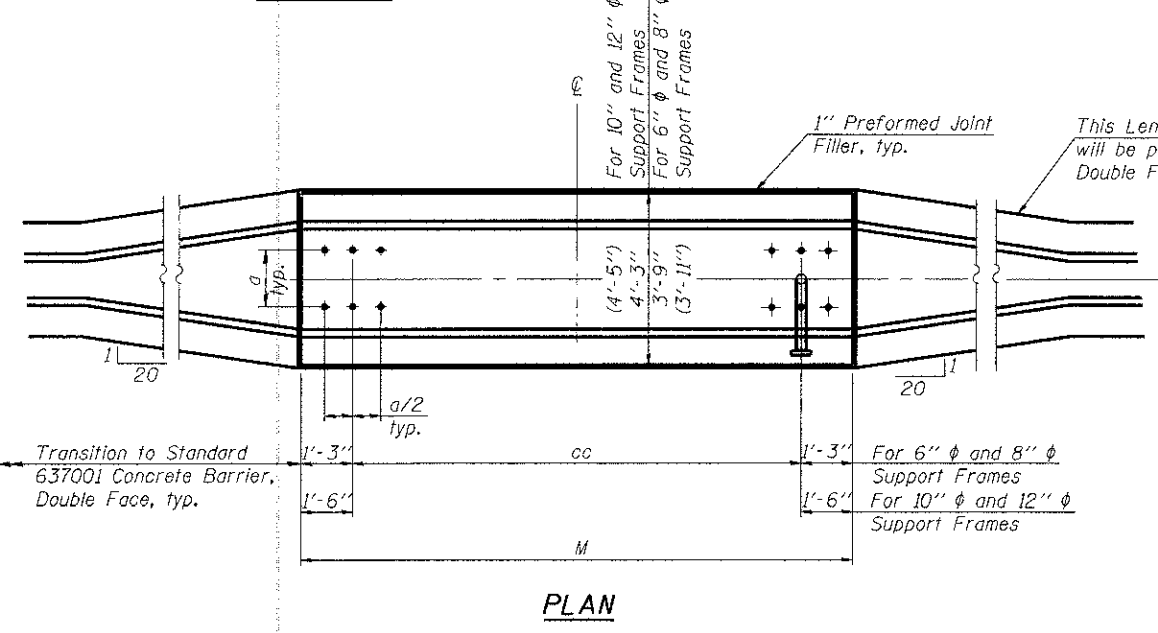
All dimensions in parenthesis are for 42" high barrier.

SIDE ELEVATION
 Concrete Foundation poured monolithically with no construction joint.



END VIEW

Support Frames	cc	M	a	a/2
For 6" φ and 8" φ	7 1/2"	2'-6"	7 1/2"	(8 1/2")
For 10" φ and 12" φ	7 1/2"	3'-0"	7 1/2"	(8 1/2")



Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
8S0821070R002.2	188+00	437.01	416.07	16'-6"	20'-11 1/4"	-	-	-	-	10.2

1:00/CON/09 DESIGN/DCN...
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6-1-12

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PLOT DATE = #DATE#		DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	193
CONTRACT NO. 76C43				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

GENERAL NOTES

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

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 or A500 Grade B or C. 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 ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line of 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.

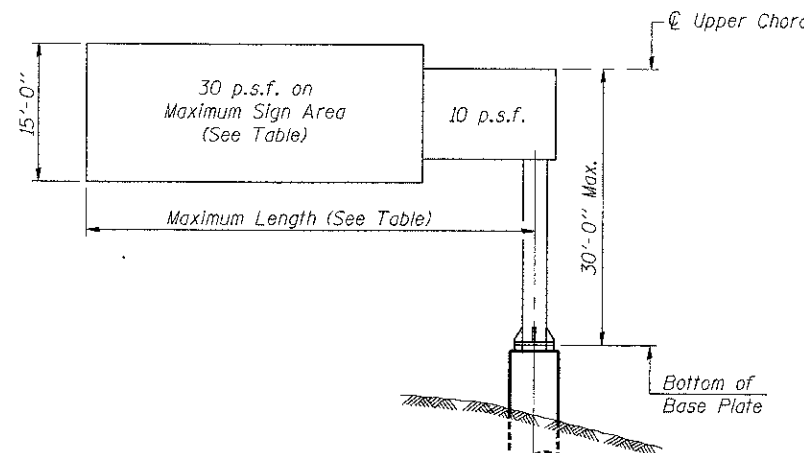
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A	Foot	-
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A	Foot	115.3
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A	Foot	-
OVERHEAD SIGN STRUCTURE, WALKWAY, CANTILEVER, TYPE A	Foot	78.8
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	16.7

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area
8C0821070R001.1	130+03	II-C-A	27'-5"	464.10	2'-8"	12'-6"	219
8C0821070R001.7	158+00	II-C-A	30'-0"	416.93	6'-6"	10'-6"	221
8C0821070R002.7	71+30.79	II-C-A	27'-11"	450.69	3'-2"	12'-6"	219
8C0821070L002.7	72+90	II-C-A	30'-0"	447.27	5'-9"	15'-6"	272

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

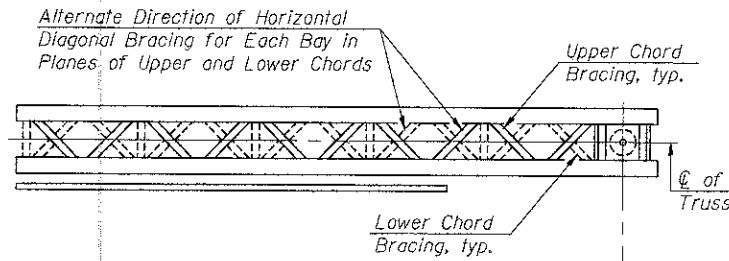
Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

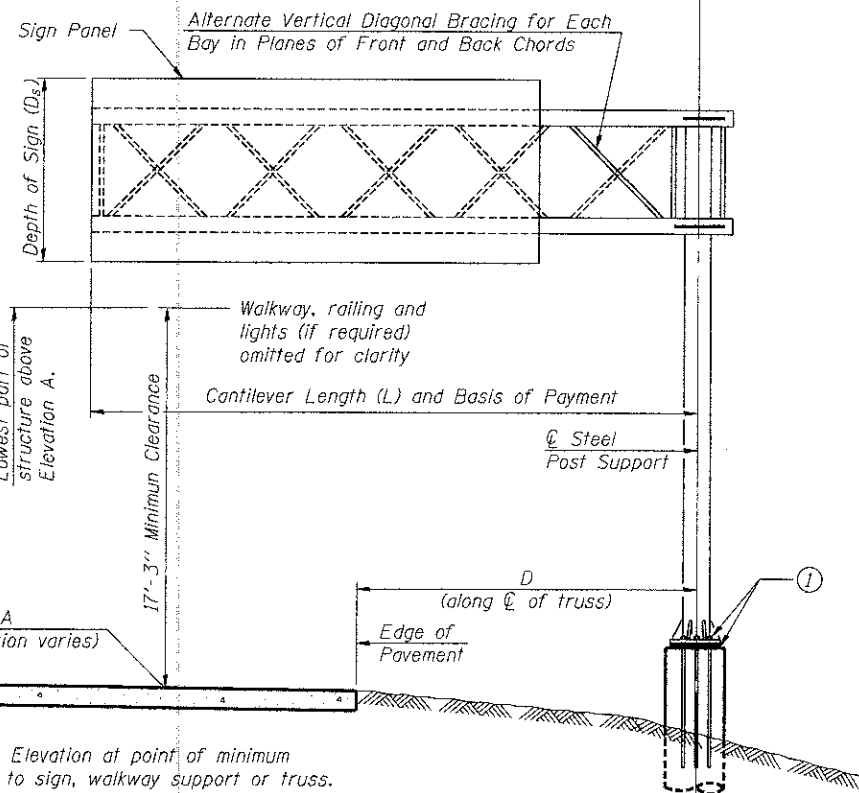
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of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

① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* 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 PLAN
(Walkway not shown)



TYPICAL ELEVATION
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

OSC-A-1 6-1-12

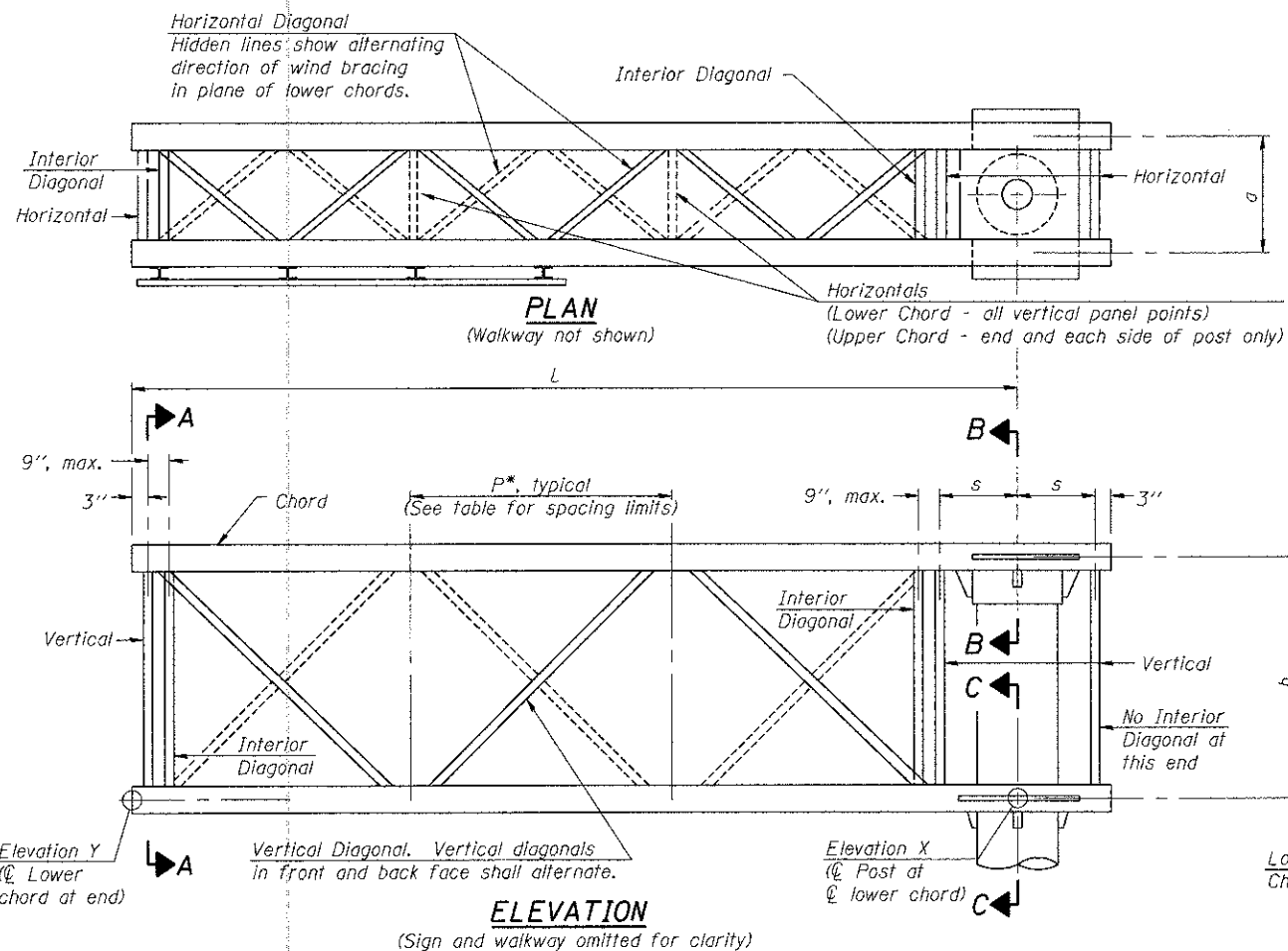
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
 ALUMINUM TRUSS & STEEL POST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	194

SCALE: SHEET NO. 1 OF 9 SHEETS STA. TO STA. CONTRACT NO. 76C43

\\BCCORP-09-BESIGNS.DSN, \\BCCORP-09-BORDER.DSN, \\BCCORP-09-DESIGN\STRUCTURE\DESIGN\STRUCTURE\SHEET\ADDCOM\08-SHT-SIGNSS.DGN
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TYPICAL TRUSS UNIT

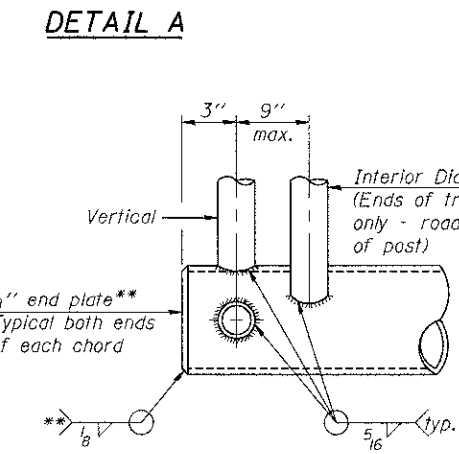
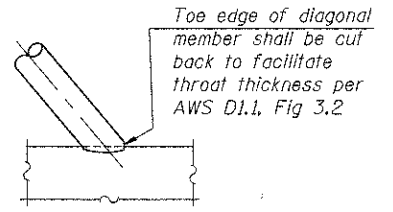
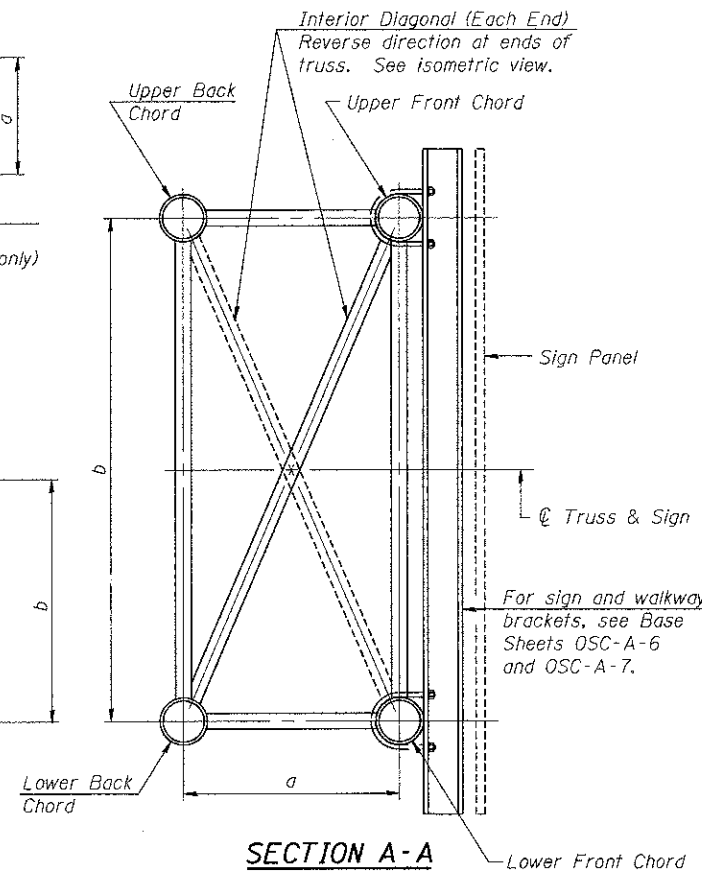
Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

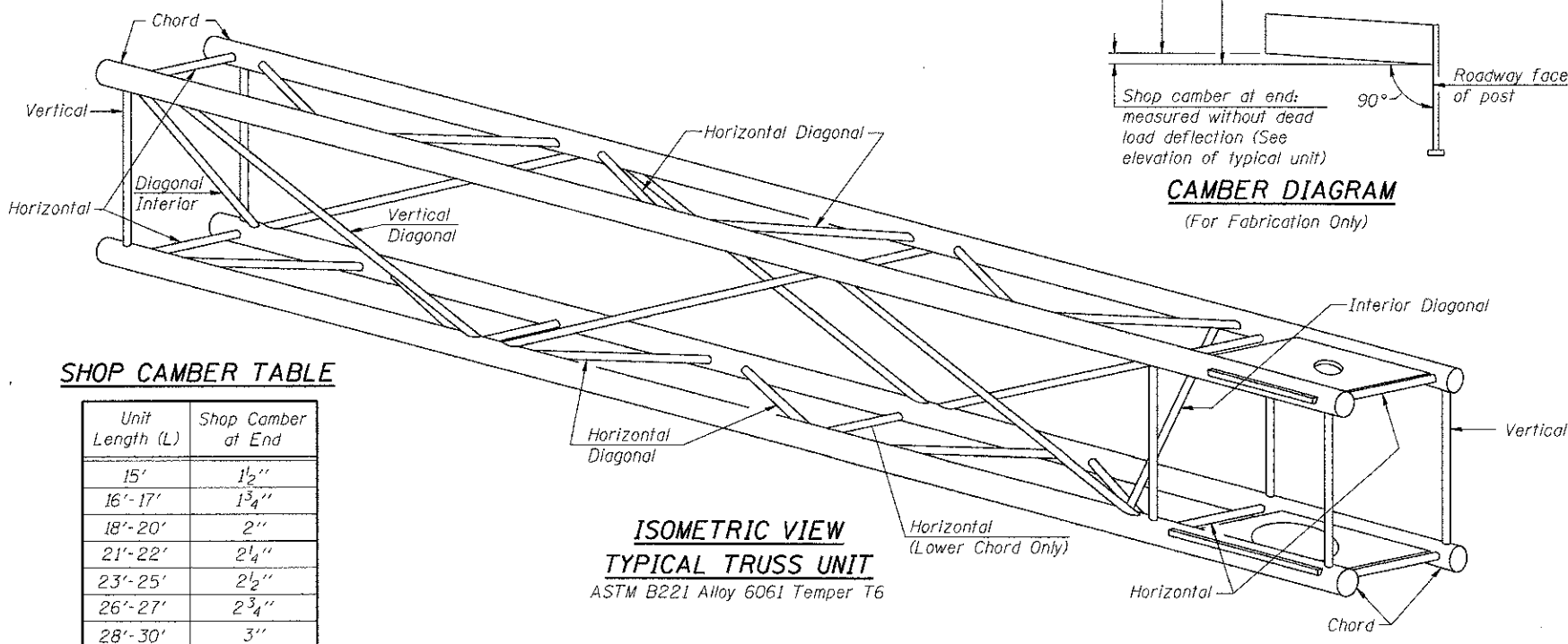
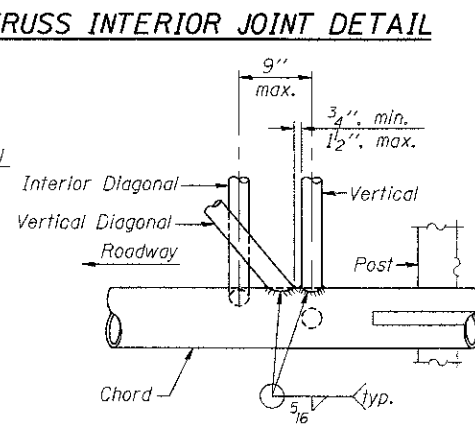
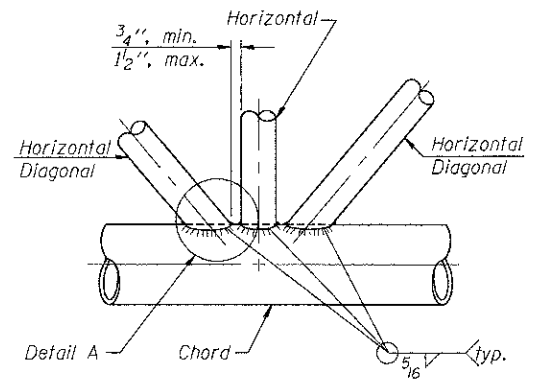
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L - s - 3"}{\# \text{ Panels}}$$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
8C0821070R001.1	130+03	II-C-A	27'-5"	6	4'-2 3/4"
8C0821070R001.7	158+00	II-C-A	30'-0"	7	4'-0"
8C0821070R002.7	71+30,79	II-C-A	27'-11"	6	4'-3 3/4"
8C0821070L002.7	72+90	II-C-A	30'-0"	7	4'-0"

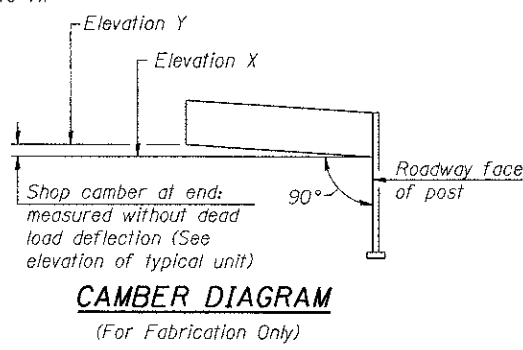


** Contractor may alternatively use standard aluminum drive-fit cap to close ends.
1/2" Ø Drain hole in end plate / drive-fit cap.



SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



OSC-A-2 6-J-12

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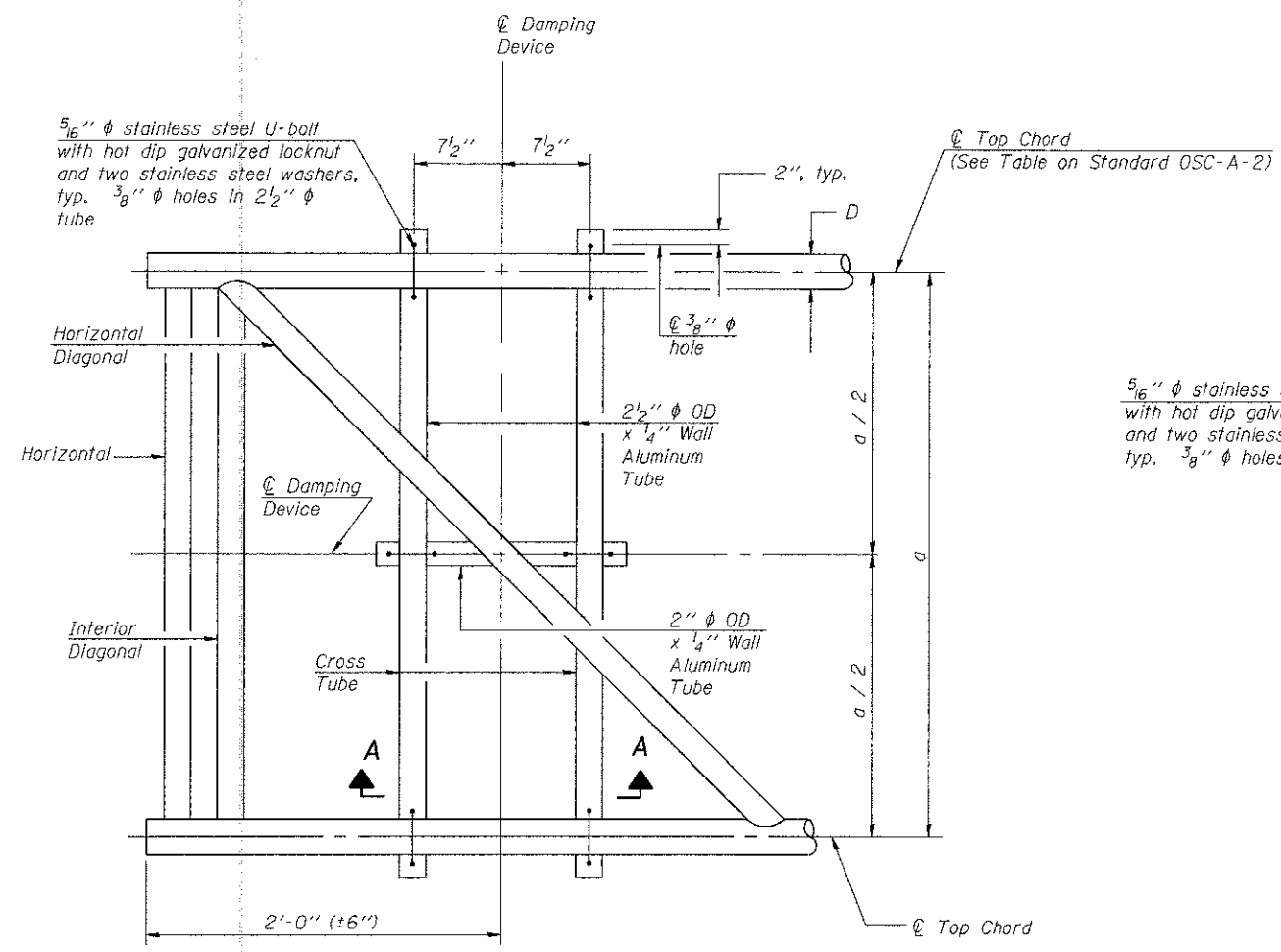
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

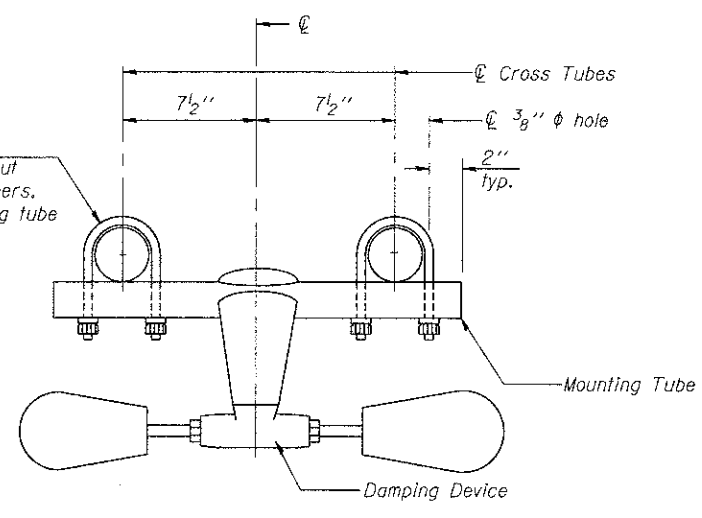
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F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 195
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76C43	

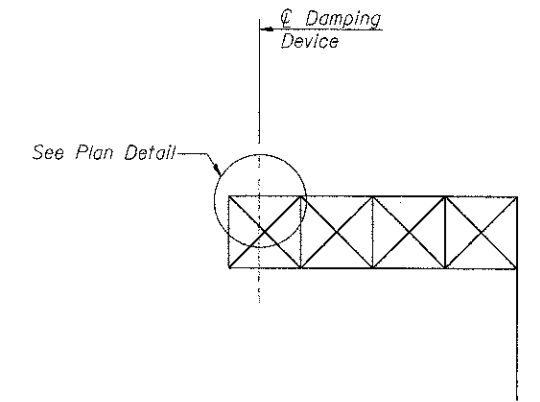
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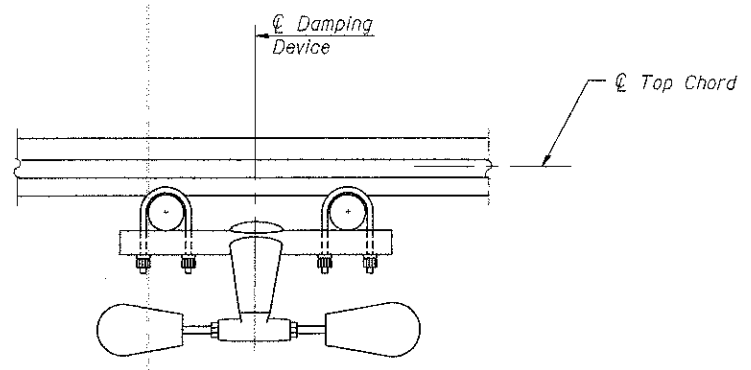
PLAN DETAIL



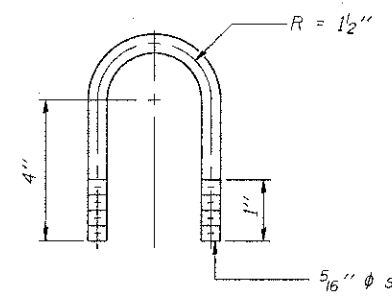
TRUSS DAMPING DEVICE CONNECTION DETAIL



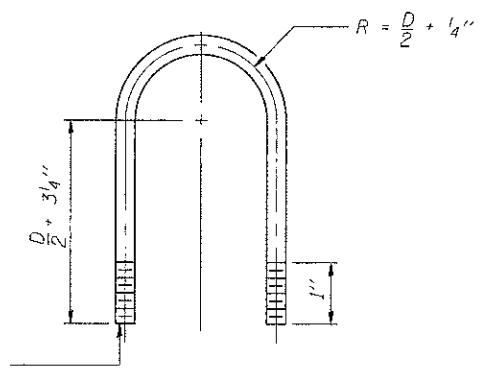
ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29' minimum between ends of weights)

Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

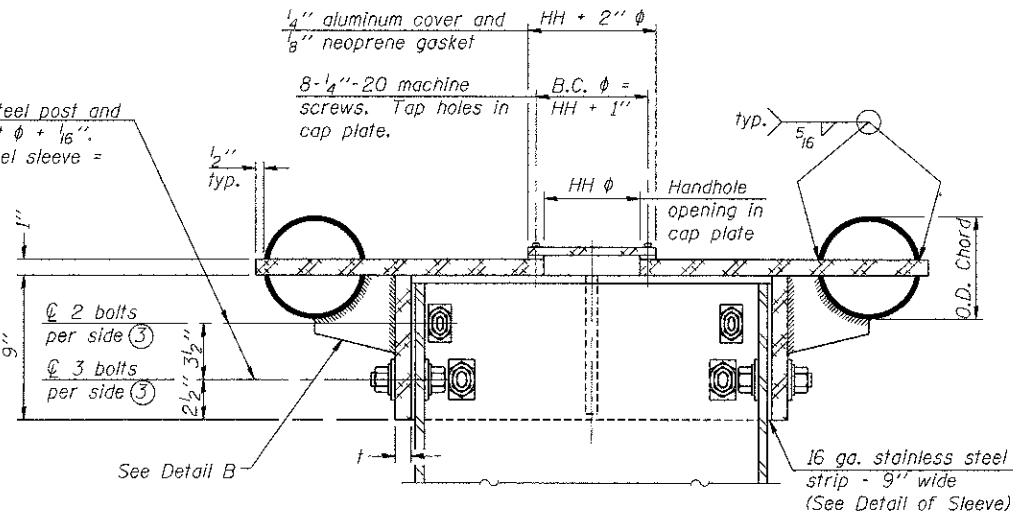
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 CHECKED - JLR
 DATE - 06/29/12
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 REVISED -
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 I-70 CONNECTION
 CANTILEVER SIGN STRUCTURE
 DAMPING DEVICE
 F.A.P. RTE. 998 SECTION 82-1R COUNTY ST. CLAIR TOTAL SHEETS 294 SHEET NO. 196
 CONTRACT NO. 76C43
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

OSC-A-D

6-1-12

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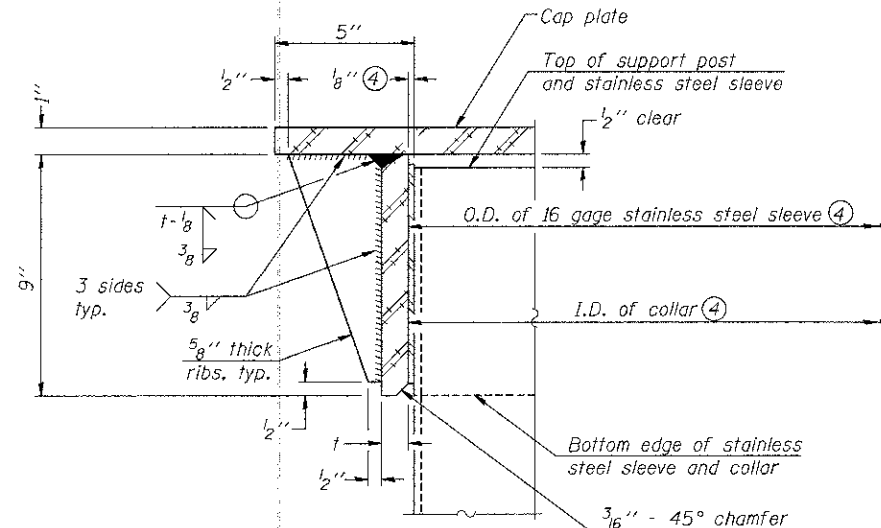
Holes in galvanized steel post and aluminum collar = bolt $\phi + \frac{1}{16}$ ".
Holes in stainless steel sleeve = bolt $\phi + \frac{3}{16}$ ".



④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus $\frac{1}{8}$ " ($\pm \frac{1}{16}$ "). Maximum gap between post and collar at any location equals $\frac{1}{8}$ " before tightening bolts.

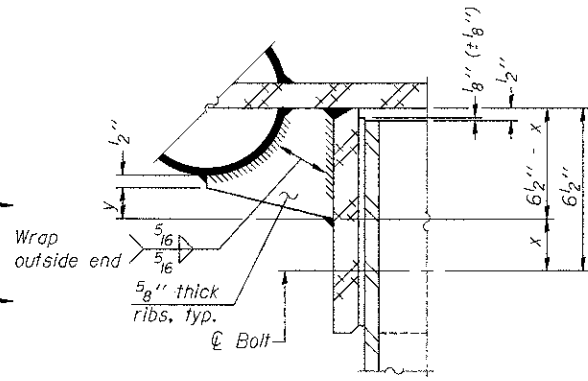
SECTION B-B

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



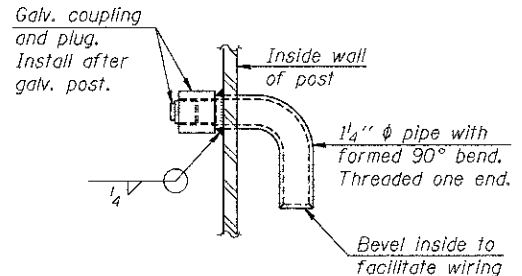
DETAIL A
(Two locations)

3/16" - 45° chamfer on inside of collar to facilitate field assembly

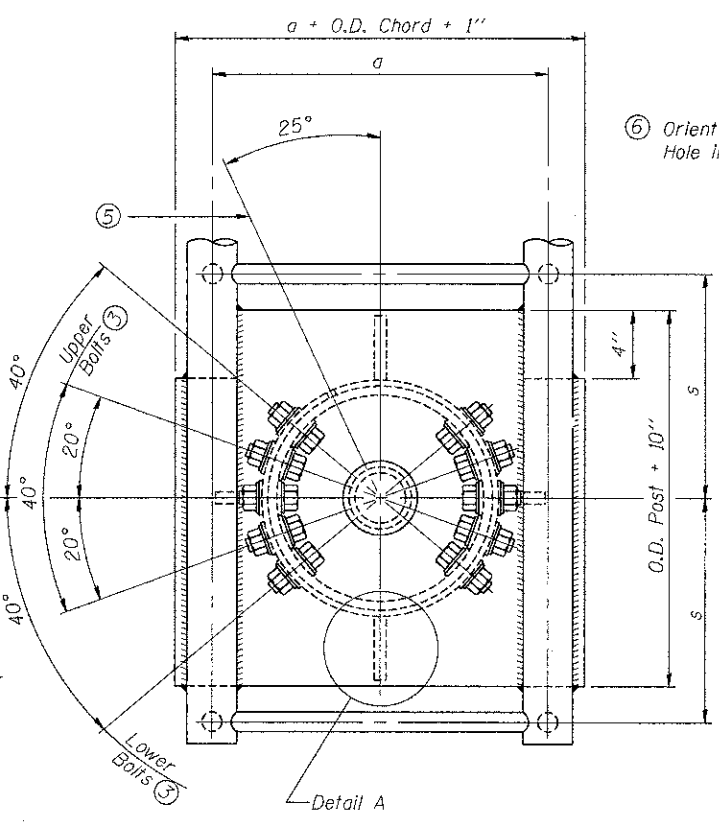


DETAIL B

Two locations
(For details not shown, see Detail C)

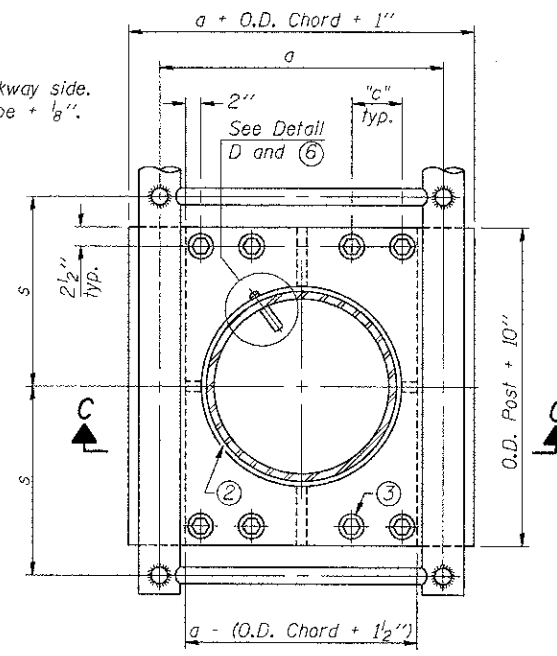


DETAIL D



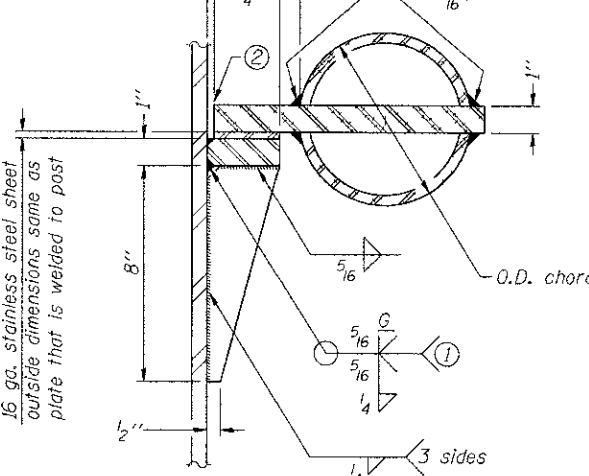
PLAN VIEW - TOP OF COLUMN

⑤ Optional full penetration weld in collar.
(Two locations maximum....(180° apart)....X-ray or UT 100%)

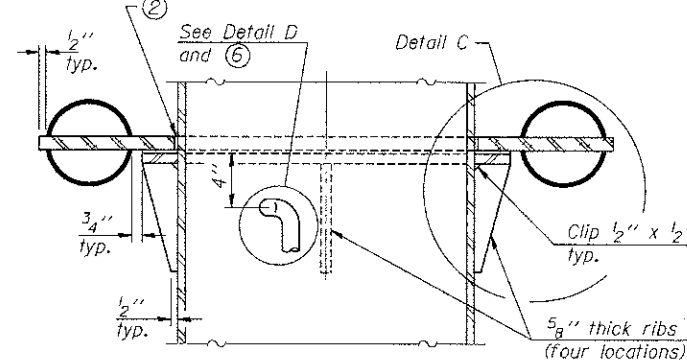


SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



DETAIL C



SECTION C-C

CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1/2" long at 6" cts. along top edge and at 1/4" opening.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" phi (83#/'')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" phi (125#/'')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" phi (125#/'')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" phi (171#/'')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

6-1-12

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TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

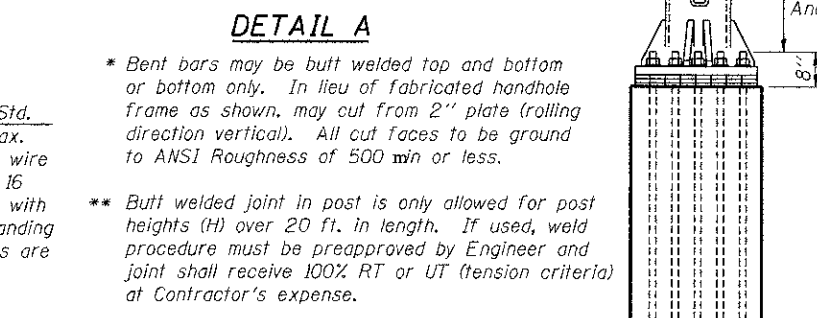
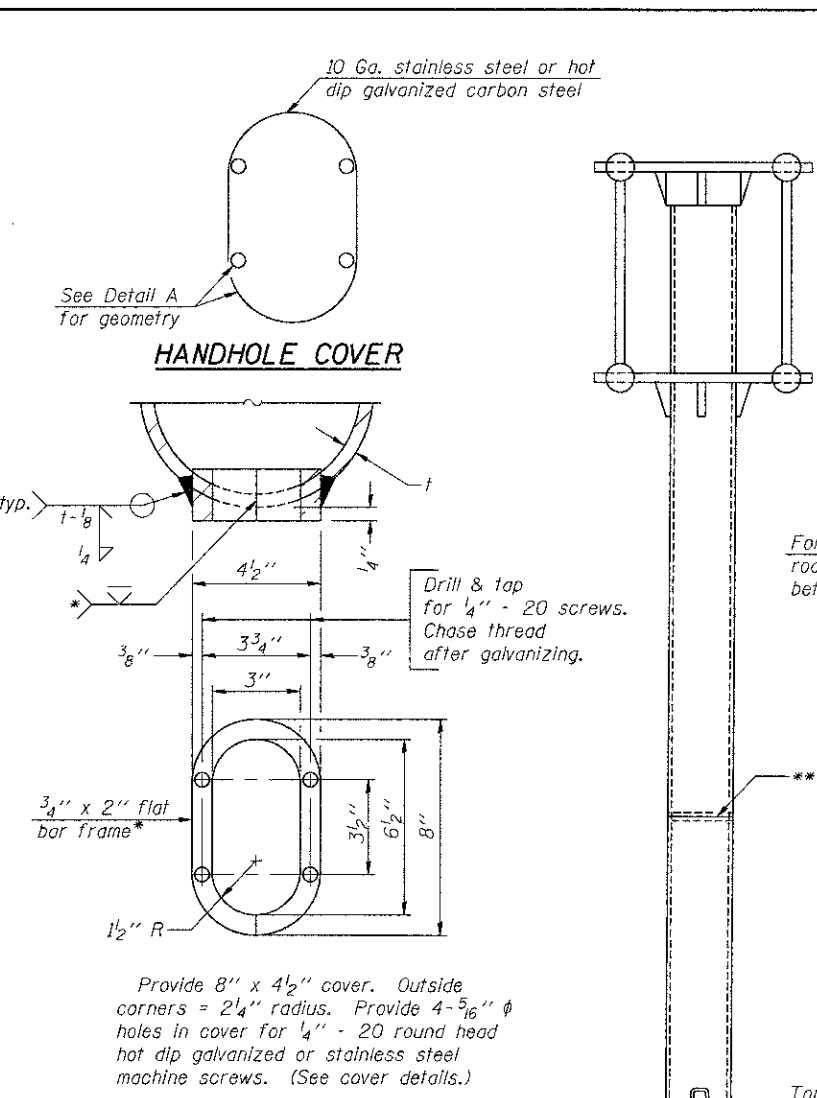
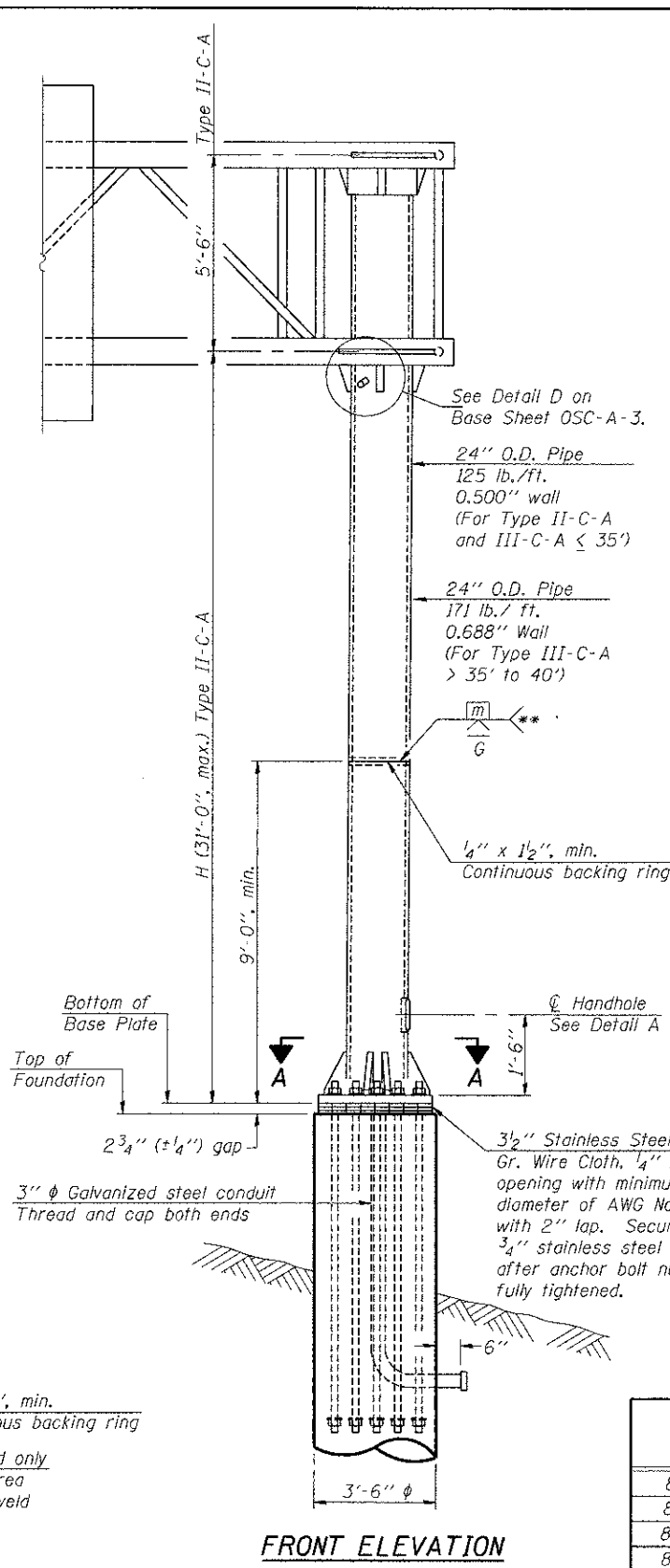
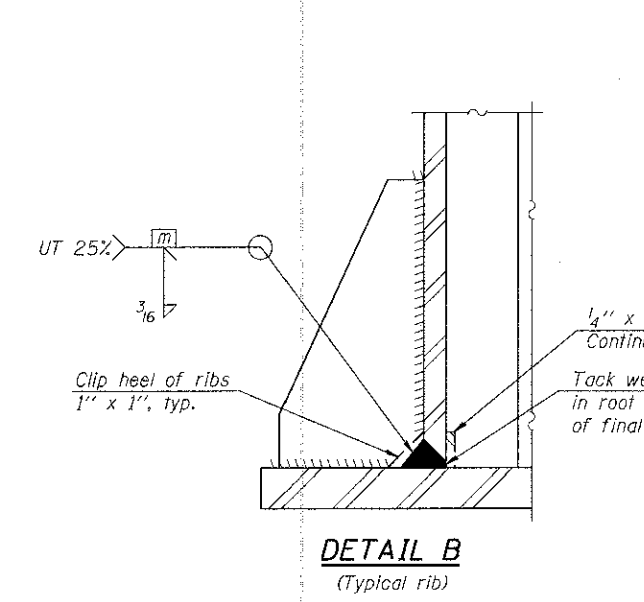
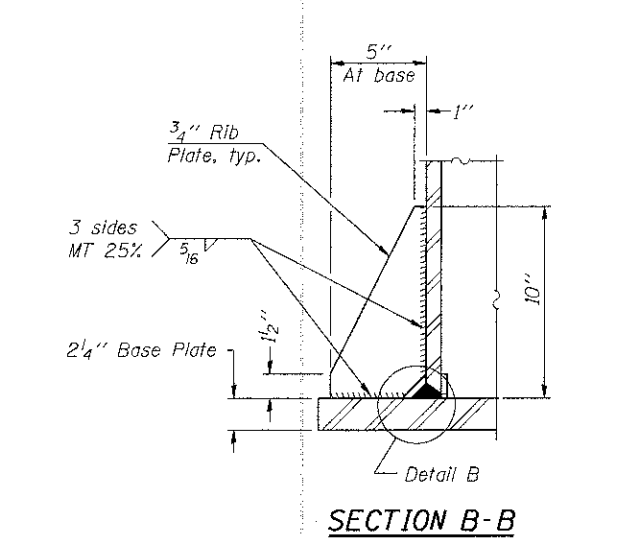
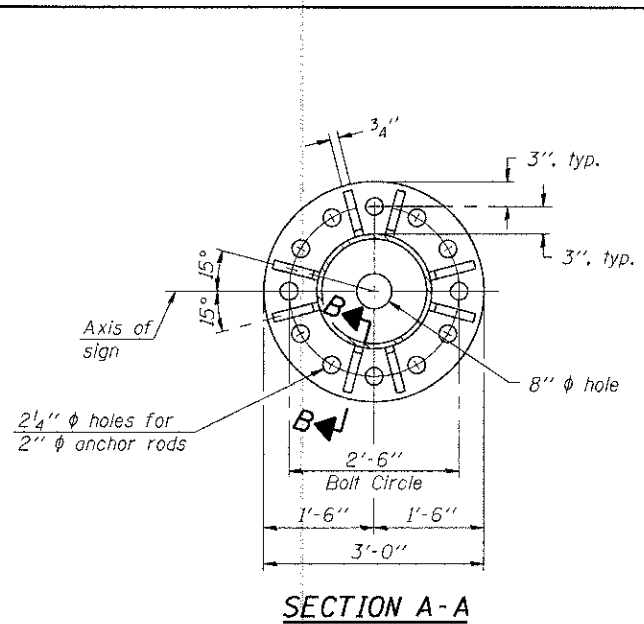
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DRAWN - MDJ
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DATE - 06/29/12

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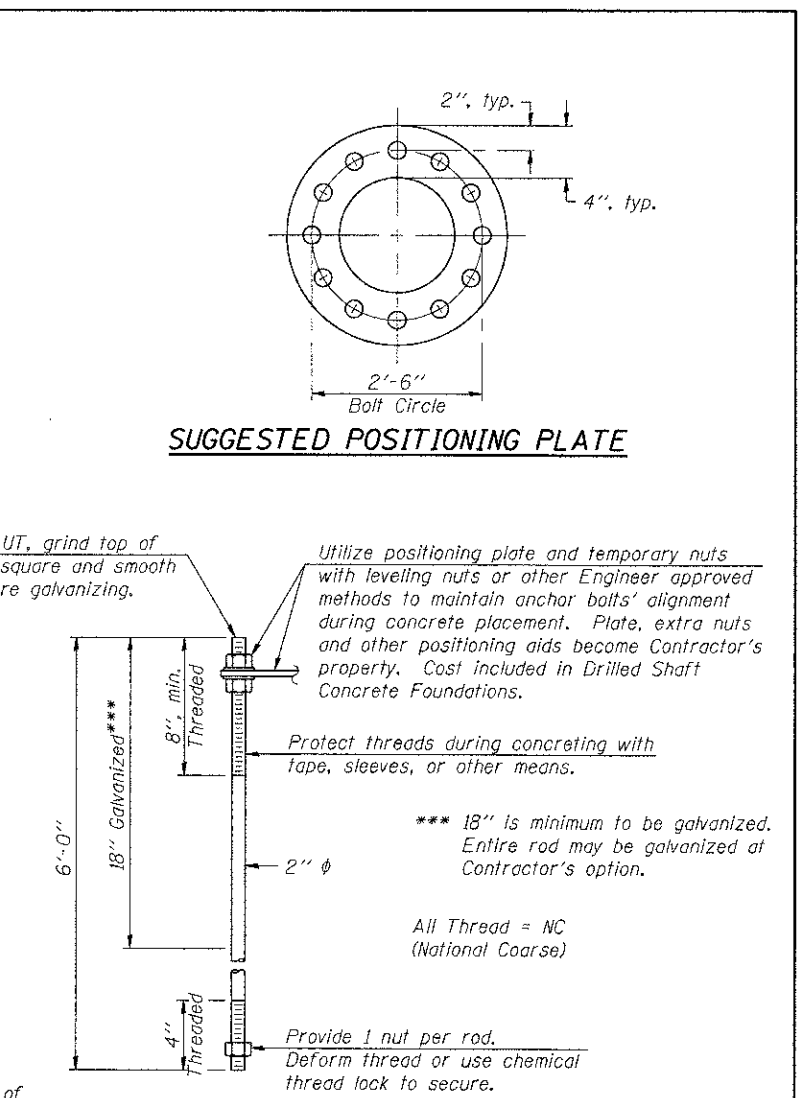
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST
SCALE: SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 197
CONTRACT NO. 76C43			ILLINOIS FED. AID PROJECT	



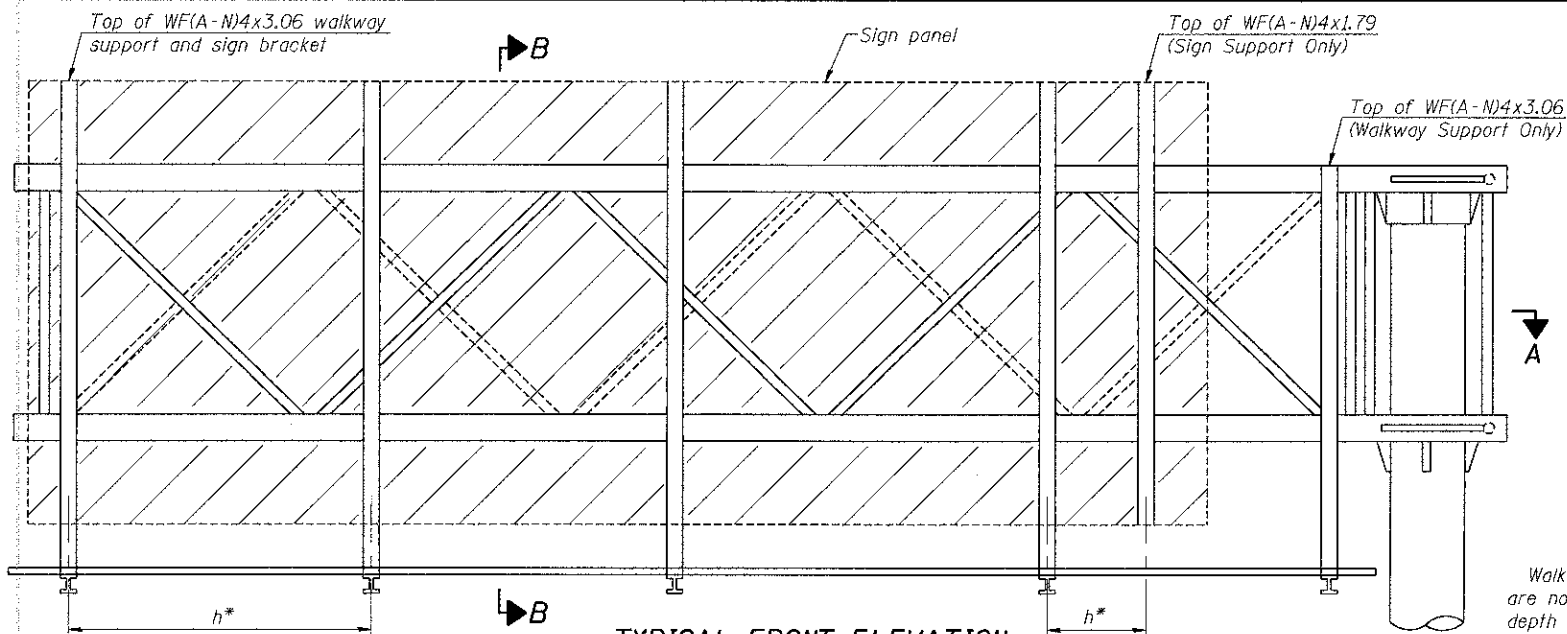
Structure Number	Station	H
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8C0821070R001.7	158+00	21'-11"
8C0821070R002.7	71+30.79	29'-9"
8C0821070L002.7	72+90	22'-11"



Note: "H" based on 15'-0" or actual sign height, whichever is greater.

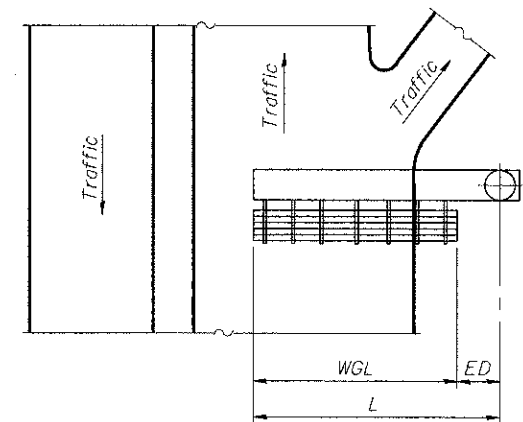
OSC-A-5 (Special) 6-1-12

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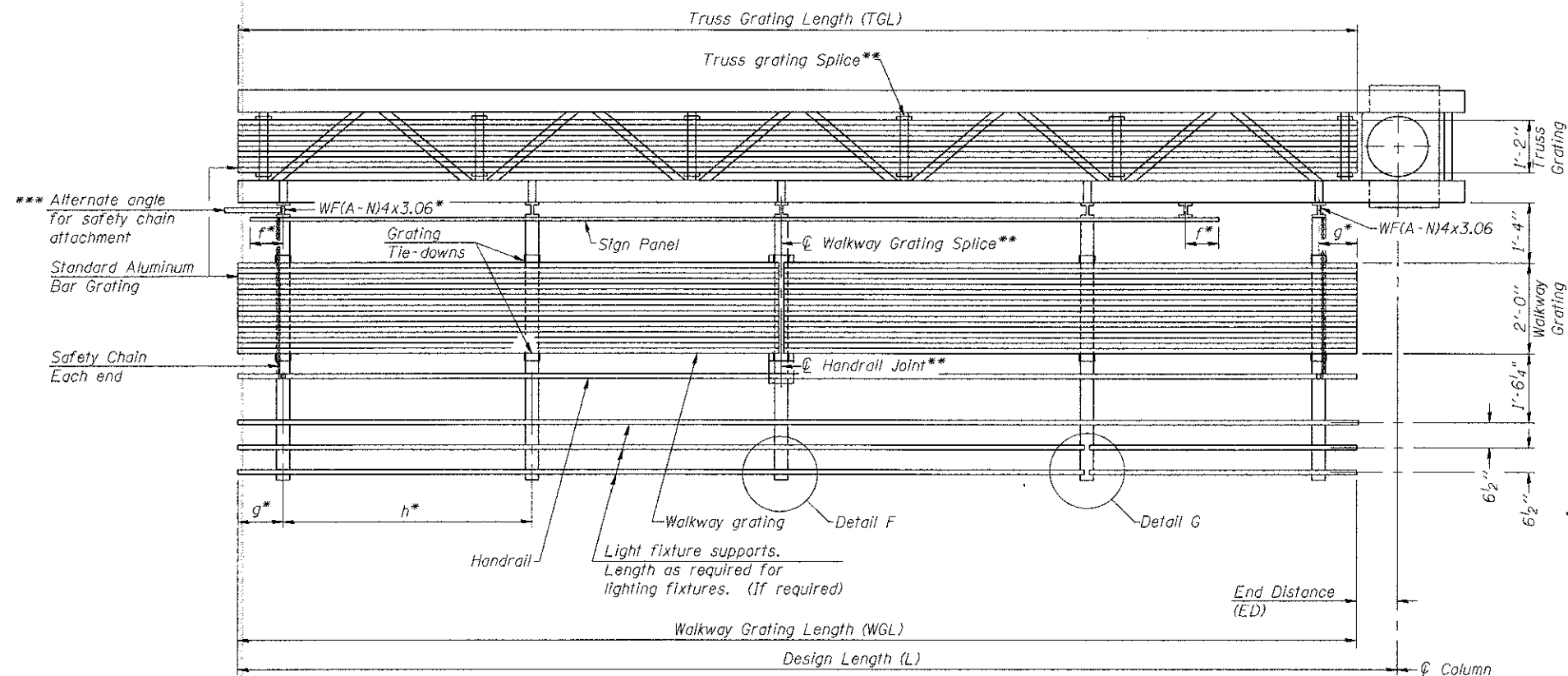


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



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



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

Structure Number	Station	WGL	ED	TGL
8C0821070R001.1	130+03	18'-9"	8'-8"	25'-11"
8C0821070R001.7	158+00	21'-0"	9'-0"	28'-6"
8C0821070R002.7	71+30.79	20'-9"	7'-2"	26'-5"
8C0821070L002.7	72+90	18'-3"	11'-9"	28'-6"

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 center of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

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

OSC-A-6

6-1-12

FILE NAME =
#FILE#
TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

USER NAME = #USER#
DESIGNED - MDJ
DRAWN - MDJ
CHECKED - JLR
DATE - 06/29/12

REVISED -
REVISED -
REVISED -
REVISED -

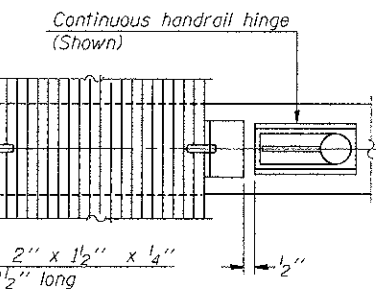
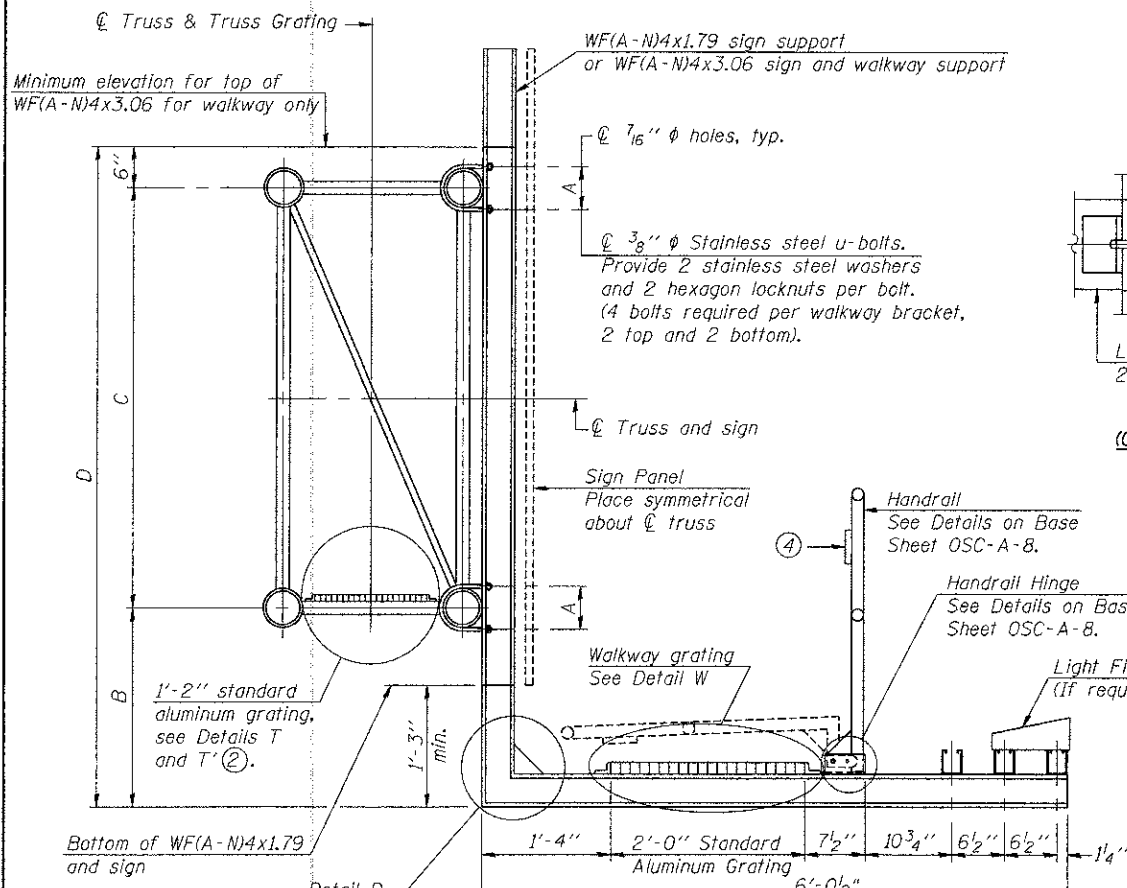
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

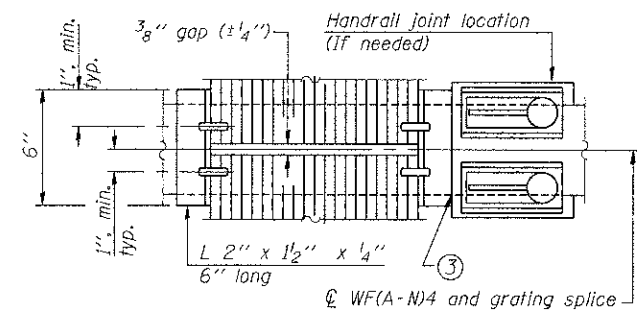
SCALE: SHEET NO. 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 199
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

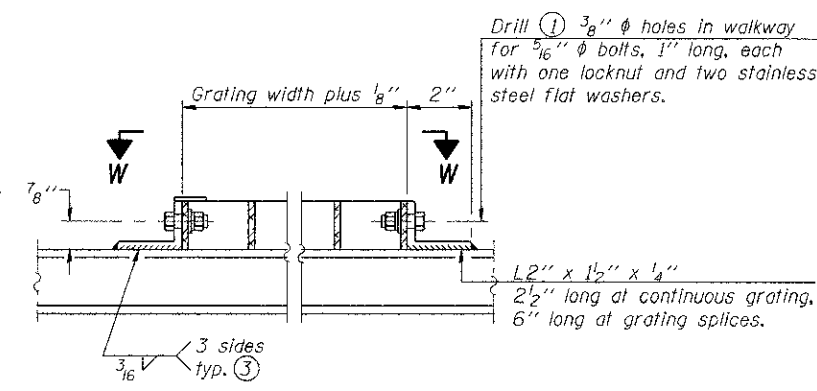
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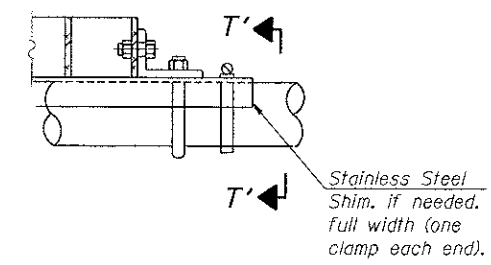
SECTION W-W



(AT WALKWAY GRATING SPLICE)



DETAIL W
(Walkway grating)

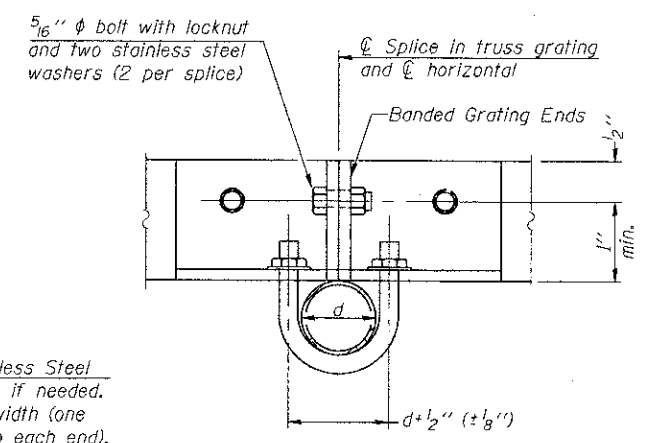


DETAIL T'

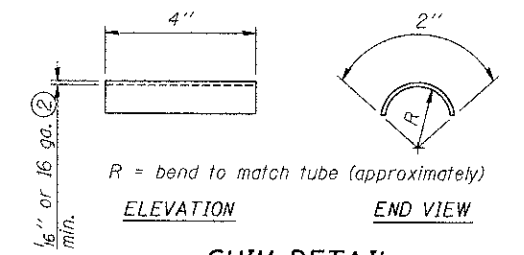
(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

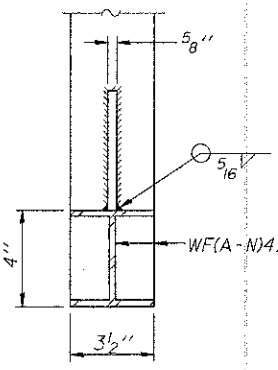
OR
Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



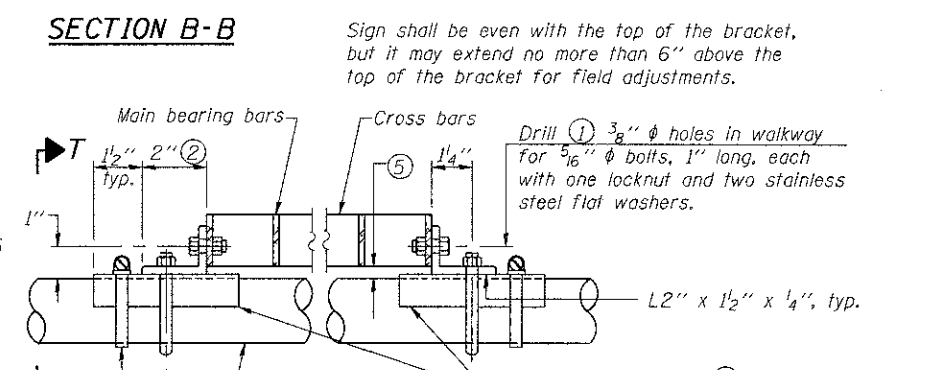
SECTION T'-T'



SHIM DETAIL



SECTION D-D

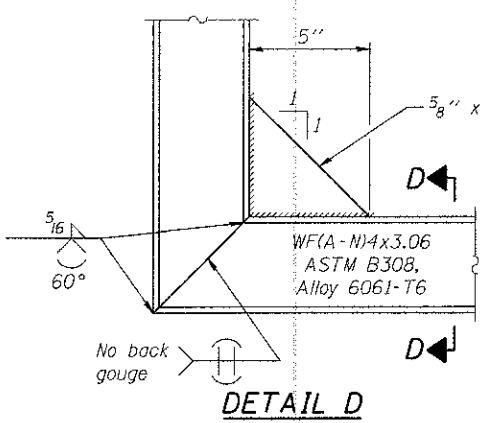


SECTION B-B

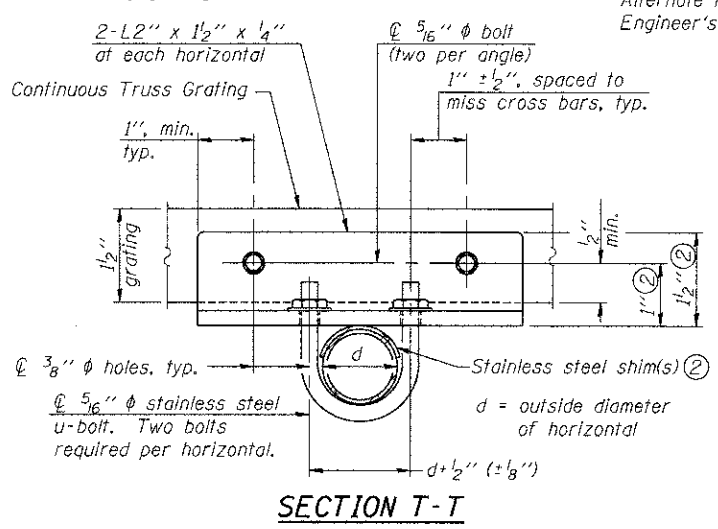
Screw type stainless steel tube clamp at shim location

Drill 3/8" diameter holes in angles for 5/16" diameter 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.

DETAIL T
(Continuous Truss grating)



DETAIL D



SECTION T-T

Structure Number	Station	A	⑥ B	C	⑥ D
8C0821070R001.1	130+03	7"	4'-9"	5'-6"	10'-9"
8C0821070R001.7	158+00	7"	3'-9"	5'-6"	9'-9"
8C0821070R002.7	71+30.79	7"	4'-9"	5'-6"	10'-9"
8C0821070L002.7	72+90	7"	6'-3"	5'-6"	12'-3"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual sign height. D_s, given on OSC-A-1.

OSC-A-7 6-1-12