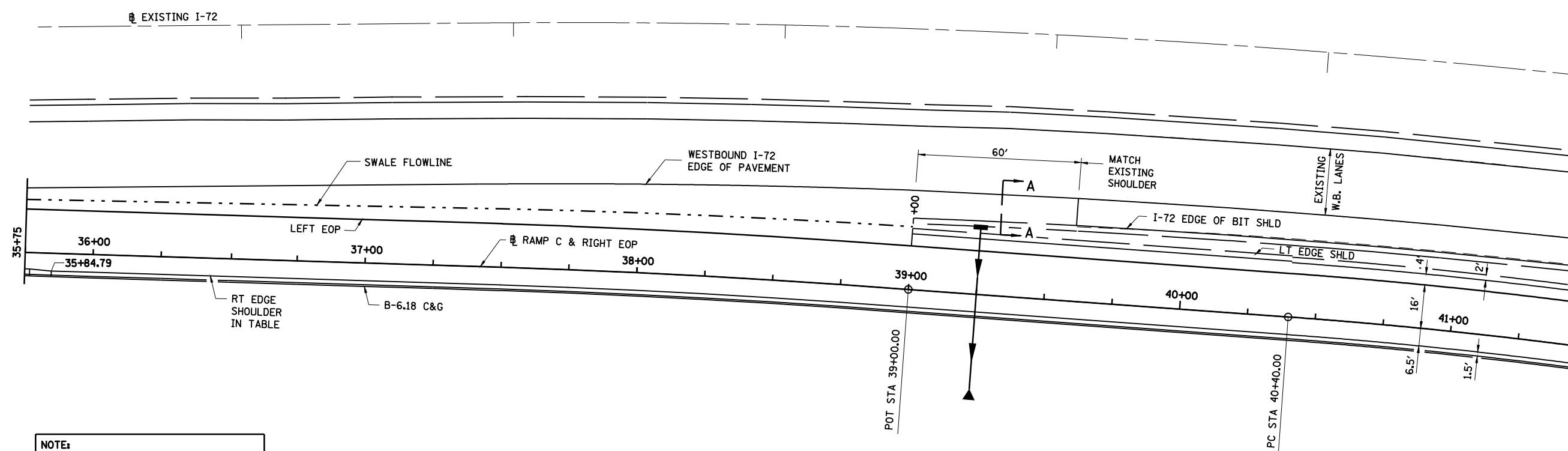


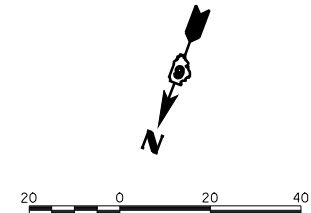
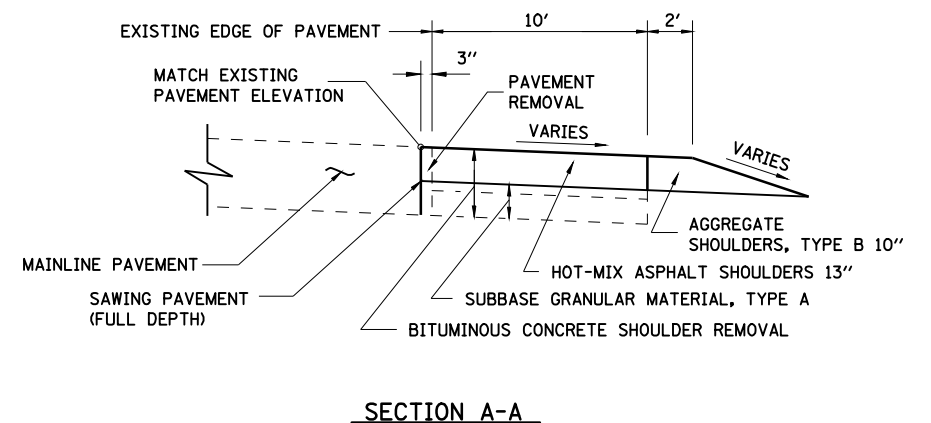
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	201
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



NOTE:  
I-72 EXISTING EDGE OF PAVEMENT SHOWN IN THE TABLE IS SET TO MATCH THE ELEVATION OF THE PROPOSED OVERLAY OF I-72 BY OTHERS.

STATION	NORTHING	EASTING	ELEVATION AT RAMP BASELINE	I-72 EXISTING EDGE OF PAVEMENT		I-72 EDGE OF BIT SHOULDER		SWALE FLOWLINE			RAMP LT EDGE SHOULDER		RAMP LT EDGE OF PAVEMENT		RAMP RT EDGE SHOULDER	
				OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET LT	ELEV	WIDTH	OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET RT	ELEV
36+00.00	1,120,197.986	2,437,848.199	619.55	24.48	619.79			19.80	619.72			16.00	619.79	6.50	619.29	
36+25.00	1,120,189.914	2,437,824.539	620.17	25.46	620.41			20.08	620.32			16.00	620.41	6.50	619.91	
36+50.00	1,120,181.841	2,437,800.878	620.70	26.44	620.94			20.35	620.85			16.00	620.94	6.50	620.44	
36+75.00	1,120,173.768	2,437,777.217	621.23	27.42	621.47			20.62	621.37			16.00	621.47	6.50	620.97	
37+00.00	1,120,165.695	2,437,753.557	621.72	28.40	621.99			20.90	621.88			16.00	621.99	6.50	621.46	
37+25.00	1,120,157.622	2,437,729.896	622.16	29.38	622.52			21.17	622.39			16.00	622.52	6.50	621.90	
37+50.00	1,120,149.557	2,437,706.233	622.59	30.36	623.04			21.45	622.91			16.00	623.04	6.50	622.33	
37+75.00	1,120,141.620	2,437,682.526	623.02	31.34	623.56			21.72	623.42			16.00	623.56	6.50	622.76	
38+00.00	1,120,133.851	2,437,658.764	623.46	32.33	624.09			22.00	623.93			16.00	624.09	6.50	623.20	
38+25.00	1,120,126.252	2,437,634.947	623.89	33.31	624.61			22.28	624.44			16.00	624.61	6.50	623.60	
38+50.00	1,120,118.823	2,437,611.077	624.35	34.29	625.07			22.55	624.89			16.00	625.07	6.50	624.06	
38+75.00	1,120,111.565	2,437,587.154	624.80	35.27	625.52			22.83	625.34			16.00	625.52	6.50	624.51	
39+00.00	1,120,104.477	2,437,563.180	625.25	36.25	625.97			23.10	625.78			16.00	625.97	6.50	624.96	
39+25.00	1,120,097.389	2,437,539.202	625.69	37.05	626.43	27.05	626.15	24.73	625.76	0.00	22.00	626.22	16.00	626.42	6.50	625.39
39+50.00	1,120,090.301	2,437,515.227	626.12	37.67	626.84	27.67	626.44	25.51	626.08	0.00	22.00	626.67	16.00	626.87	6.50	625.82
39+75.00	1,120,083.213	2,437,491.253	626.53	38.11	627.26	28.11	626.81	25.95	626.45	0.00	22.00	627.10	16.00	627.29	6.50	626.22
40+00.00	1,120,076.126	2,437,467.279	626.92	38.37	627.67	28.37	627.22	26.05	626.83	0.00	22.00	627.51	16.00	627.70	6.50	626.60
40+25.00	1,120,069.038	2,437,443.305	627.29	38.46	628.08	28.46	627.63	26.05	627.23	0.00	22.00	627.90	16.00	628.08	6.50	626.97
40+50.00	1,120,061.976	2,437,419.323	627.65	38.39	628.44	28.39	627.99	26.05	627.60	0.00	22.00	628.27	16.00	628.45	6.50	627.32
40+75.00	1,120,055.174	2,437,395.266	627.99	38.36	628.79	28.36	628.34	26.10	627.96	0.00	22.00	628.63	16.00	628.81	6.50	627.66
41+00.00	1,120,048.691	2,437,371.121	628.31	38.53	629.13	28.53	628.68	26.15	628.29	0.00	22.00	628.97	16.00	629.14	6.50	627.97
41+10.00	1,120,046.188	2,437,361.440	628.43	38.64	629.27	28.64	628.82	26.16	628.41	0.00	22.00	629.10	16.00	629.27	6.50	628.09
41+25.00	1,120,042.528	2,437,346.893	628.61	38.85	629.48	28.85	629.03	26.20	628.59	0.00	22.00	629.28	16.00	629.45	6.50	628.27
41+50.00	1,120,036.687	2,437,322.585	628.91	39.33	629.83	29.33	629.38	26.25	628.86	0.00	22.00	629.58	16.00	629.75	6.50	628.57

ESTIMATED EXISTING OFFSET/ELEVATION. MATCH EXISTING

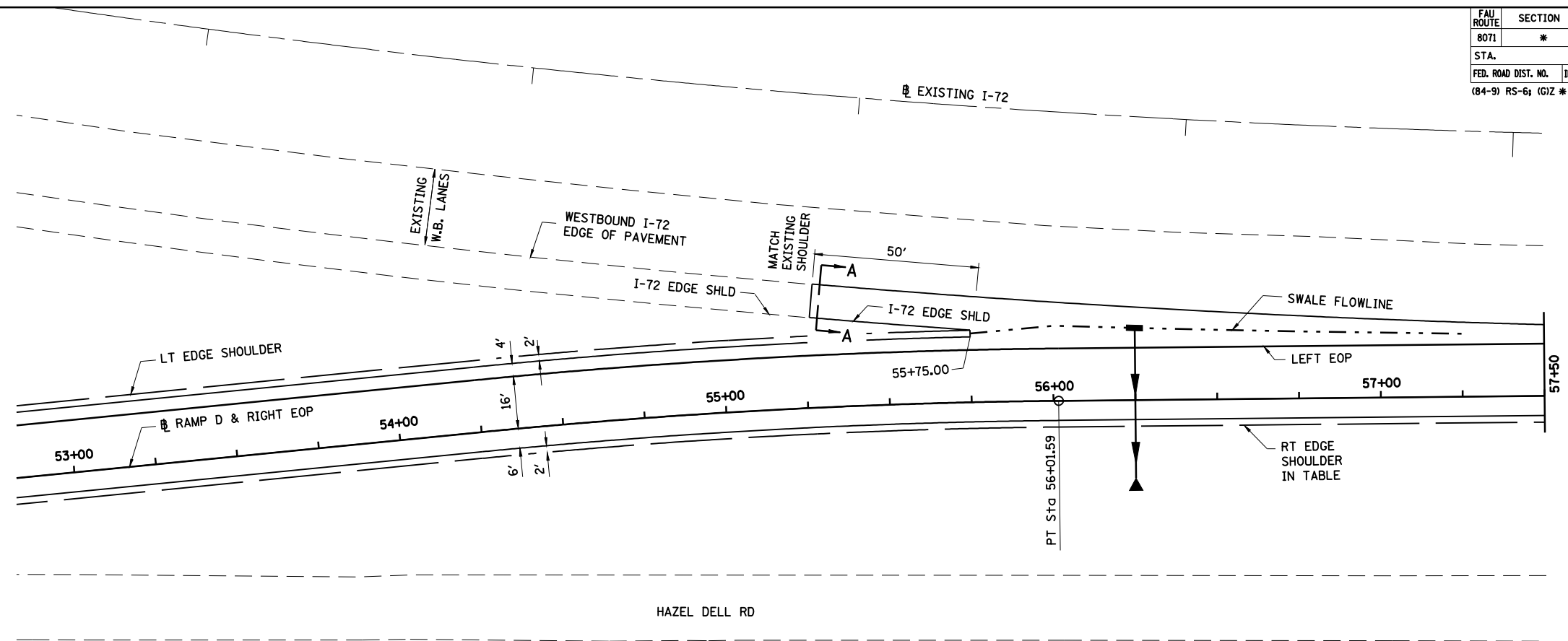


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
RAMP C TERMINAL DETAIL-2  
FAI-72, MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT.      DRAWN BY CLG  
          HORIZ.      CHECKED BY JAD  
DATE Mar-20-2008 09:36:18AM

LAYOUT CLG 09/17/07  
 DRAWN CLG 09/17/07  
 REVIEWED JMM 03/12/08  
 Mar-20-2008 09:36:18AM  
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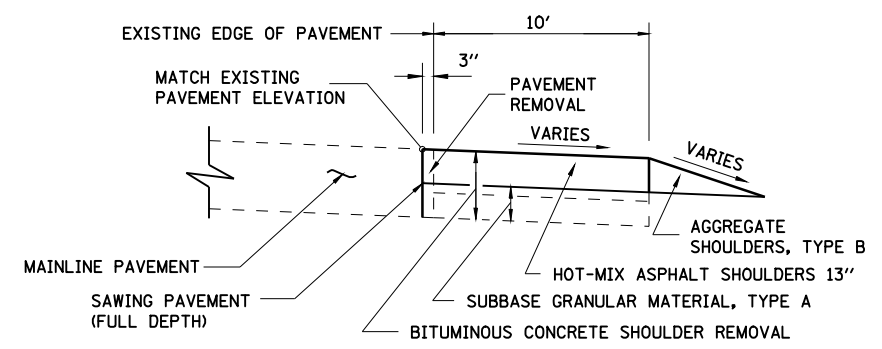
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	202
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



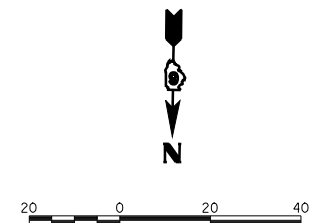
STATION	NORTHING	EASTING	ELEVATION AT RAMP BASELINE	I-72 EXISTING EDGE OF PAVEMENT		I-72 EDGE OF BIT SHOULDER		SWALE FLOWLINE			RAMP LT EDGE SHOULDER		RAMP LT EDGE OF PAVEMENT		RAMP RT EDGE SHOULDER	
				OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET LT	ELEV	WIDTH	OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET RT	ELEV
A 54+50.00	1,120,330.845	2,434,294.487	602.31	50.49	603.21	40.49	602.81	31.65	601.67	4.00	22.00	602.94	16.00	603.12	8.00	601.91
A 54+71.59	1,120,328.860	2,434,272.988	602.34	46.41	603.20	36.41	602.80	29.70	601.94	3.13	22.00	602.97	16.00	603.15	8.00	601.94
A 54+75.00	1,120,328.568	2,434,269.591	602.35	45.80	603.20	35.80	602.80	29.40	601.98	3.00	22.00	602.97	16.00	603.15	8.00	601.95
A 55+00.00	1,120,326.602	2,434,244.669	602.41	41.62	603.19	31.62	602.79	27.35	602.24	2.00	22.00	602.96	16.00	603.16	8.00	602.03
A 55+25.00	1,120,324.949	2,434,219.724	602.46	37.96	603.18	27.96	602.78	25.50	602.45	1.00	22.00	602.95	16.00	603.17	8.00	602.11
A 55+50.00	1,120,323.607	2,434,194.760	602.52	34.79	603.17	24.79	602.90	23.54	602.69	0.00	22.00	602.94	16.00	603.18	8.00	602.19
A 55+75.00	1,120,322.577	2,434,169.781	602.57	32.13	603.18			21.00	603.01		16.00	603.18	8.00	603.18	8.00	602.25
B 56+00.00	1,120,321.859	2,434,144.792	602.63	29.95	603.19			22.90	603.08		16.00	603.19	8.00	603.19	8.00	602.31
B 56+01.59	1,120,321.824	2,434,143.201	602.63	29.83	603.19			22.92	603.09		16.00	603.19	8.00	603.19	8.00	602.31
B 56+25.00	1,120,321.317	2,434,119.798	602.67	28.14	603.20			22.07	603.11		16.00	603.20	8.00	603.20	8.00	602.35
B 56+50.00	1,120,320.776	2,434,094.804	602.73	26.50	603.21			21.25	603.13		16.00	603.21	8.00	603.21	8.00	602.41
B 56+75.00	1,120,320.235	2,434,069.810	602.77	25.02	603.22			20.51	603.15		16.00	603.22	8.00	603.22	8.00	602.45
B 57+00.00	1,120,319.693	2,434,044.815	602.81	23.70	603.23			19.85	603.17		16.00	603.23	8.00	603.23	8.00	602.49
B 57+25.00	1,120,319.152	2,434,019.821	602.85	22.55	603.24			19.28	603.19		16.00	603.24	8.00	603.24	8.00	602.53
B 57+50.00	1,120,318.610	2,433,994.827	602.87	21.55	603.23						16.00	603.23	8.00	603.23	8.00	602.55

ESTIMATED EXISTING OFFSET/ELEVATION.  
MATCH EXISTING

NOTE:  
I-72 EXISTING EDGE OF PAVEMENT SHOWN IN THE TABLE IS SET TO MATCH THE ELEVATION OF THE PROPOSED OVERLAY OF I-72 BY OTHERS.



SECTION A-A

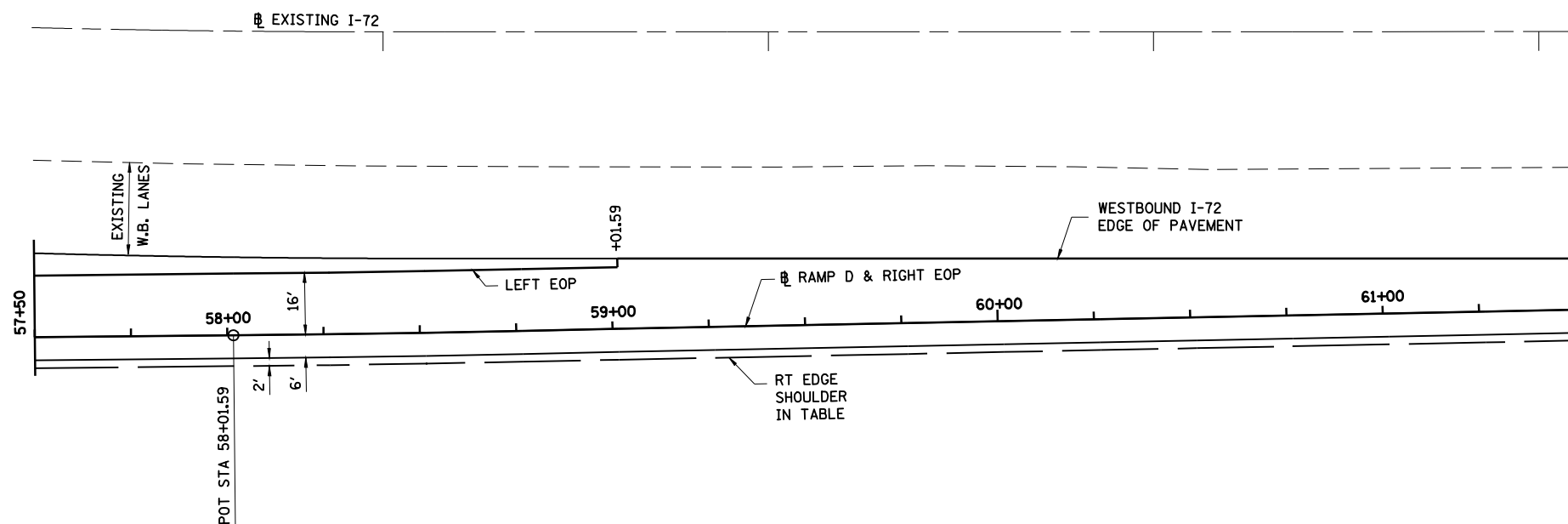


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
RAMP D TERMINAL DETAIL-1  
FAI-72, MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT. 1"=10'  
HORIZ. 1"=40'  
DATE: Mar-20-2008 09:36:24AM  
DRAWN BY: CLG  
CHECKED BY: JAD

LAYOUT: CLG 09/17/07  
 DRAWN: CLG 09/17/07  
 REVIEWED: JMM 03/12/08  
 Mar-20-2008 09:36:24AM  
 \$FILES\$

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	203
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



STATION	NORTHING	EASTING	ELEVATION AT RAMP BASELINE	I-72 EXISTING EDGE OF PAVEMENT		I-72 EDGE OF BIT SHOULDER		SWALE FLOWLINE			RAMP LT EDGE SHOULDER		RAMP LT EDGE OF PAVEMENT		RAMP RT EDGE SHOULDER	
				OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET LT	ELEV	WIDTH	OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET RT	ELEV
57+75.00	1,120,318.069	2,433,969.833	602.87	20.72	603.20								16.00	603.20	8.00	602.55
58+00.00	1,120,317.528	2,433,944.839	602.87	20.04	603.17								16.00	603.17	8.00	602.55
58+01.59	1,120,317.493	2,433,943.248	602.87	20.00	603.17								16.00	603.17	8.00	602.55
58+25.00	1,120,316.986	2,433,919.845	602.87	19.53	603.14								16.00	603.14	8.00	602.55
58+50.00	1,120,316.295	2,433,894.854	602.85	19.03	603.10								16.00	603.10	8.00	602.53
58+75.00	1,120,315.511	2,433,869.867	602.81	18.54	603.03								16.00	603.03	8.00	602.49
59+00.00	1,120,314.721	2,433,844.879	602.77	18.04	602.96								16.00	602.96	8.00	602.45
59+01.59	1,120,314.671	2,433,843.288	602.77	18.00	602.96								16.00	602.96	8.00	602.45
59+25.00	1,120,313.931	2,433,819.892	602.67	17.54	602.90										8.00	602.35
59+50.00	1,120,313.141	2,433,794.904	602.62	17.04	602.85										8.00	602.30
59+75.00	1,120,312.351	2,433,769.917	602.60	16.54	602.85										8.00	602.28
60+00.00	1,120,311.561	2,433,744.929	602.59	16.04	602.84										8.00	602.27
60+25.00	1,120,310.771	2,433,719.942	602.58	15.53	602.83										8.00	602.26
60+50.00	1,120,309.981	2,433,694.954	602.58	15.03	602.83										8.00	602.26
60+75.00	1,120,309.190	2,433,669.967	602.58	14.53	602.83										8.00	602.26
61+00.00	1,120,308.400	2,433,644.979	602.59	14.03	602.84										8.00	602.27
61+25.00	1,120,307.610	2,433,619.991	602.60	13.53	602.85										8.00	602.28
61+50.00	1,120,306.820	2,433,595.004	602.61	13.03	602.85										8.00	602.29

ESTIMATED EXISTING OFFSET/ELEVATION. MATCH EXISTING

NOTE:  
I-72 EXISTING EDGE OF PAVEMENT SHOWN IN THE TABLE IS SET TO MATCH THE ELEVATION OF THE PROPOSED OVERLAY OF I-72 BY OTHERS.



REVISIONS	
NAME	DATE

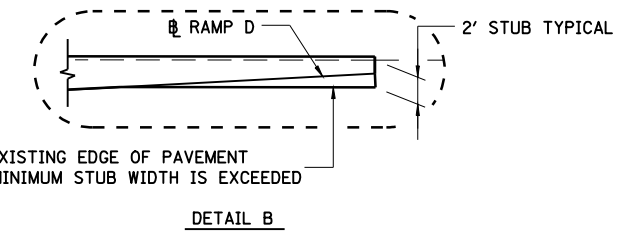
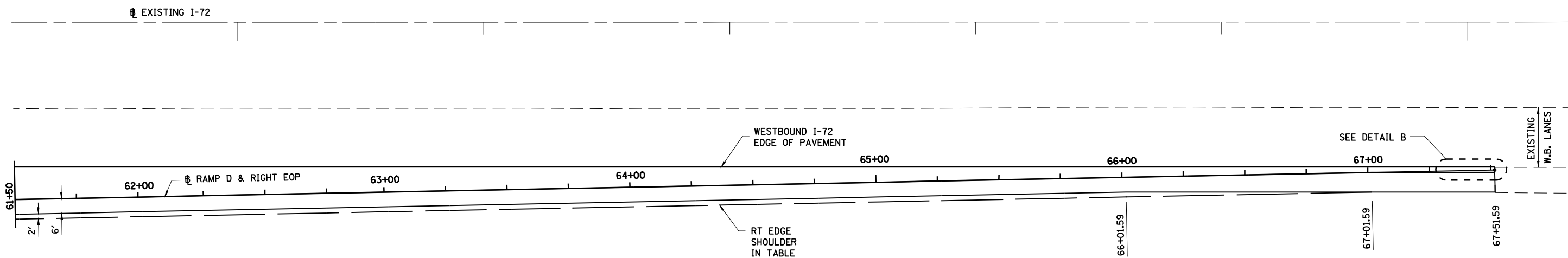
ILLINOIS DEPARTMENT OF TRANSPORTATION  
RAMP D TERMINAL DETAILS-2  
FAI-72, MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE Mar-20-2008 09:36:30AM

DRAWN BY CLG  
CHECKED BY JAD

LAYOUT CLG 09/17/07  
 DRAWN CLG 09/17/07  
 REVIEWED JMM 03/12/08  
 Mar-20-2008 09:36:30AM  
 \$FILES\$

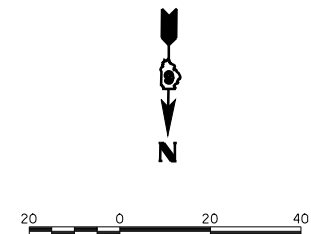
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	204
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



STATION	NORTHING	EASTING	ELEVATION AT RAMP BASELINE	I-72 EXISTING EDGE OF PAVEMENT		I-72 EDGE OF BIT SHOULDER		SWALE FLOWLINE			RAMP LT EDGE SHOULDER		RAMP LT EDGE OF PAVEMENT		RAMP RT EDGE SHOULDER	
				OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET LT	ELEV	WIDTH	OFFSET LT	ELEV	OFFSET LT	ELEV	OFFSET RT	ELEV
61+75.00	1,120,306.030	2,433,570.016	602.62	12.53	602.87										8.00	602.30
62+00.00	1,120,305.240	2,433,545.029	602.64	12.03	602.88										8.00	602.32
62+25.00	1,120,304.450	2,433,520.041	602.66	11.53	602.89										8.00	602.34
62+50.00	1,120,303.660	2,433,495.054	602.68	11.03	602.90										8.00	602.36
62+75.00	1,120,302.870	2,433,470.066	602.71	10.53	602.92										8.00	602.39
63+00.00	1,120,302.080	2,433,445.079	602.75	10.03	602.95										8.00	602.43
63+25.00	1,120,301.290	2,433,420.091	602.78	9.53	602.97										8.00	602.46
63+50.00	1,120,300.500	2,433,395.104	602.80	9.03	602.98										8.00	602.48
63+75.00	1,120,299.709	2,433,370.116	602.82	8.53	602.99										8.00	602.50
64+00.00	1,120,298.919	2,433,345.129	602.83	8.03	602.99										8.00	602.51
64+25.00	1,120,298.129	2,433,320.141	602.84	7.53	602.99										8.00	602.52
64+50.00	1,120,297.339	2,433,295.154	602.86	7.03	603.00										8.00	602.54
64+75.00	1,120,296.549	2,433,270.166	602.88	6.53	603.01										8.00	602.56
65+00.00	1,120,295.759	2,433,245.179	602.90	6.03	603.02										8.00	602.58
65+25.00	1,120,294.969	2,433,220.191	602.92	5.53	603.04										8.00	602.60
65+50.00	1,120,294.179	2,433,195.204	602.95	5.03	603.05										8.00	602.63
65+75.00	1,120,293.389	2,433,170.216	602.97	4.53	603.06										8.00	602.65
66+00.00	1,120,292.599	2,433,145.229	602.99	4.03	603.07										8.00	602.67
66+25.00	1,120,291.809	2,433,120.241	603.01	3.53	603.08										8.00	602.69
66+50.00	1,120,291.019	2,433,095.254	603.03	3.03	603.09										8.00	602.71
66+75.00	1,120,290.229	2,433,070.266	603.05	2.53	603.10										8.00	602.73
67+00.00	1,120,289.438	2,433,045.279	603.07	2.03	603.11										8.00	602.75
67+25.00	1,120,288.648	2,433,020.291	603.09	1.53	603.12										8.47	602.75
67+51.59	1,120,287.808	2,432,993.708	603.11	1.00	603.13										10.00	602.71

ESTIMATED EXISTING OFFSET/ELEVATION. MATCH EXISTING

NOTE:  
I-72 EXISTING EDGE OF PAVEMENT SHOWN IN THE TABLE IS SET TO MATCH THE ELEVATION OF THE PROPOSED OVERLAY OF I-72 BY OTHERS.



LAYOUT CLG 09/17/07  
 DRAWN CLG 09/17/07  
 REVIEWED JMM 03/12/08  
 Mar-20-2008 09:36:36AM  
 \$FILES\$

REVISIONS	
NAME	DATE

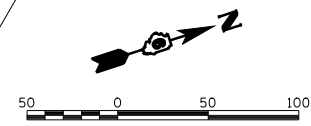
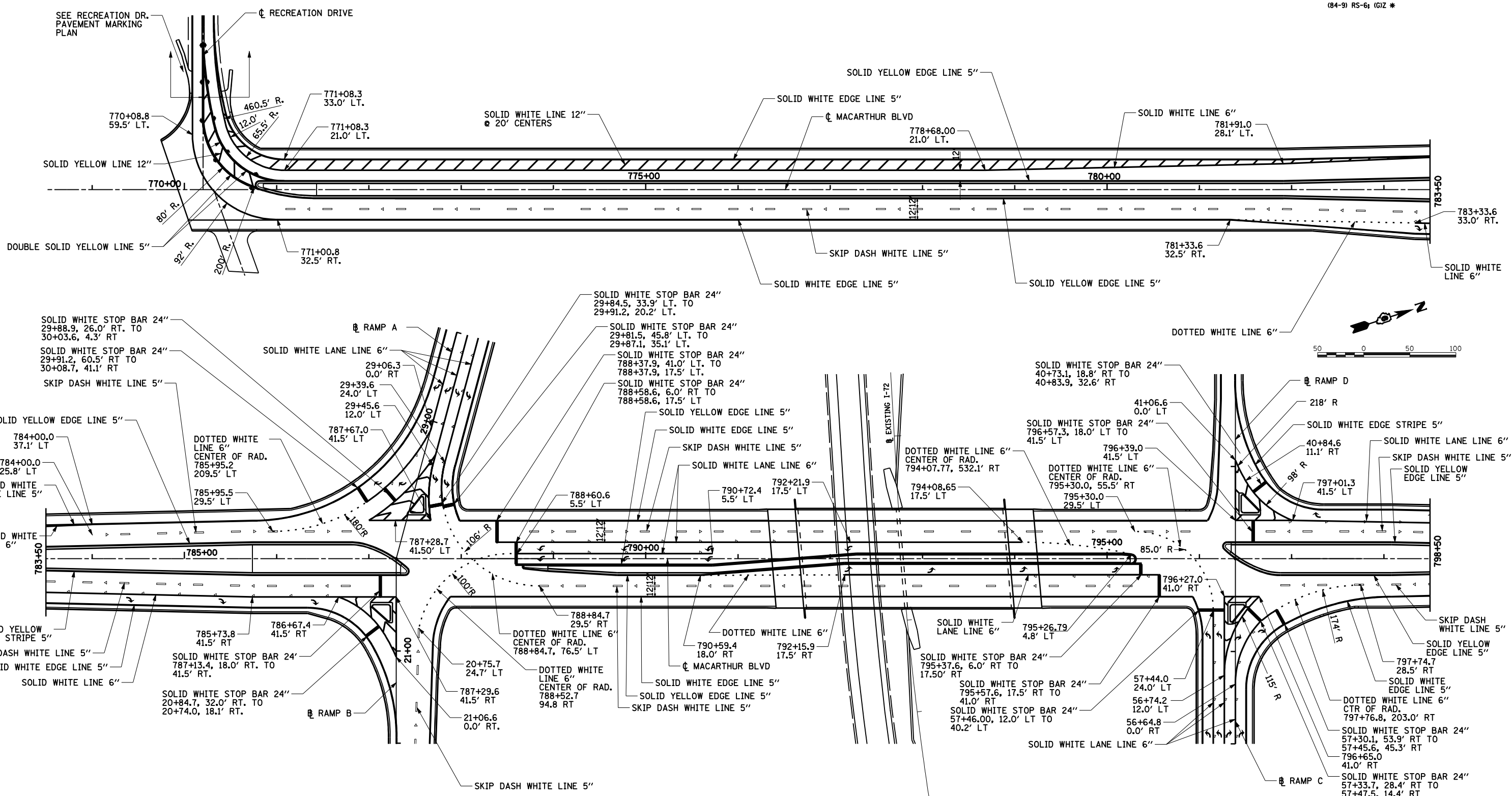
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 RAMP D TERMINAL DETAIL-3  
 FAI-72, MACARTHUR BLVD  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE Mar-20-2008 09:36:36AM

DRAWN BY CLG  
 CHECKED BY JAD



FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	205
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



NOTE  
SEE PAVEMENT MARKING DETAIL SHEET  
FOR ADDITIONAL PAVEMENT MARKING  
AND RAISED REFLECTIVE PAVEMENT MARKING  
LAYOUT AND MATERIALS.

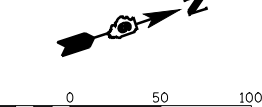
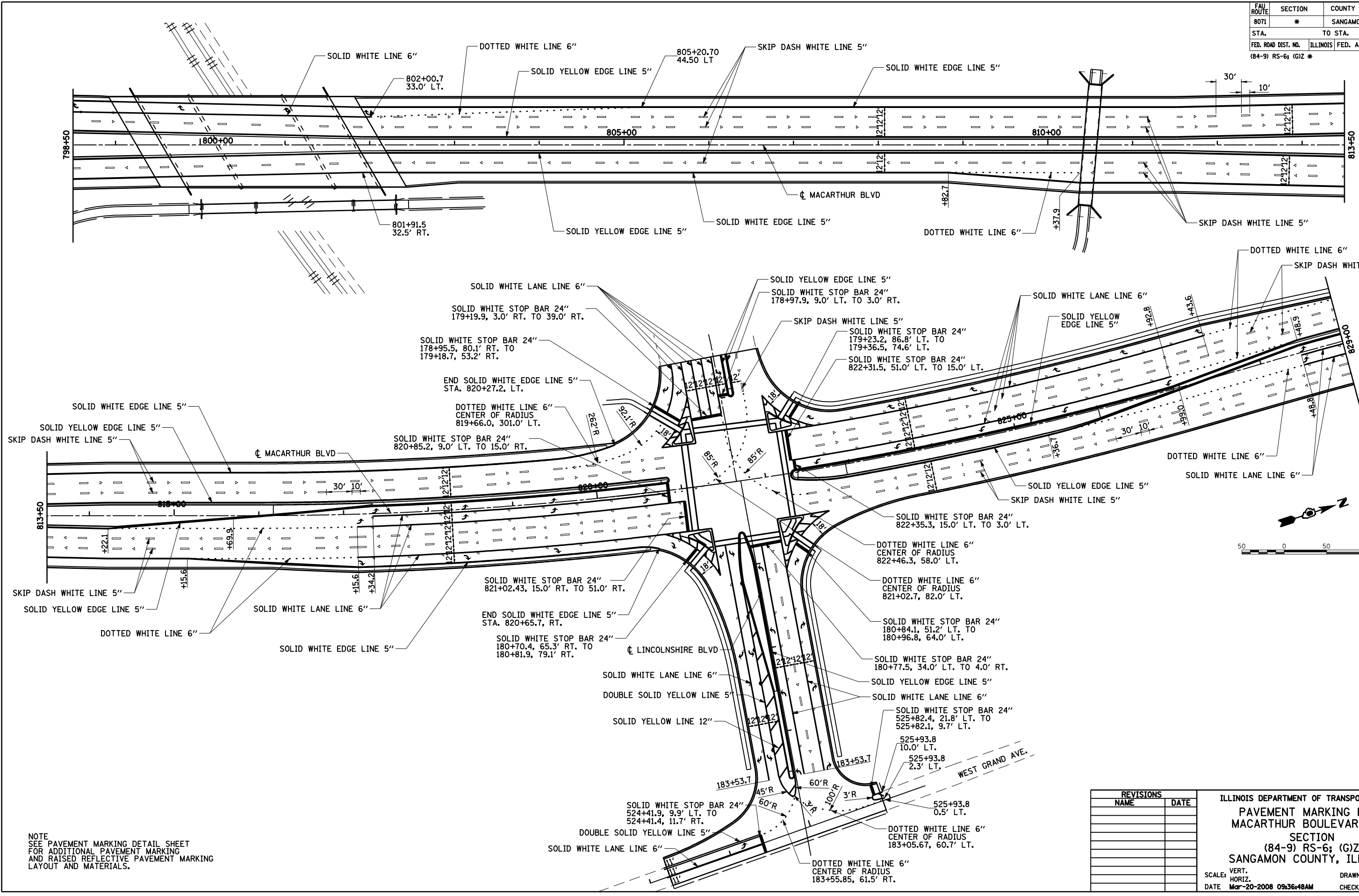
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKING PLAN  
MACARTHUR BOULEVARD - 1  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. DATE: Mar-20-2008 09:36:42AM  
DRAWN BY: JAP  
CHECKED BY: JWM

NO-20-2008 09:36:42AM	CLG	09/17/07
FILE#	CLG	09/17/07
	JMM	09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	206
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING PLAN  
 MACARTHUR BOULEVARD - 2  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. HORIZ.  
 DATE: Mar-20-2008 09:36:48AM

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 CHECKED BY: JWM

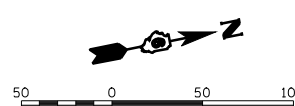
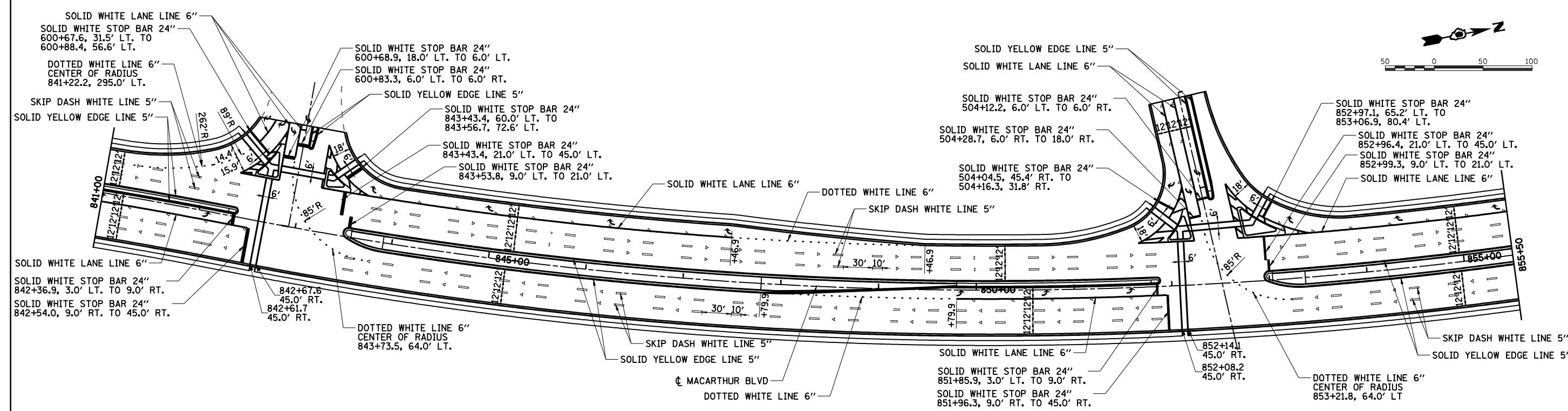
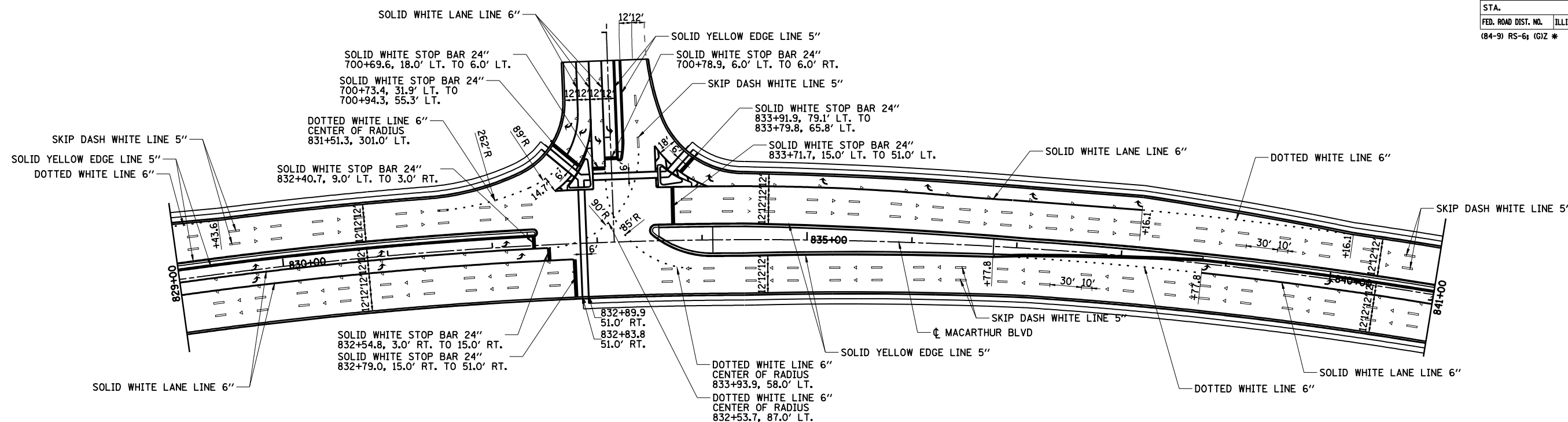


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LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

NOTE  
 SEE PAVEMENT MARKING DETAIL SHEET  
 FOR ADDITIONAL PAVEMENT MARKING  
 AND RAISED REFLECTIVE PAVEMENT MARKING  
 LAYOUT AND MATERIALS.

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	207
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		(84-9) RS-6; (G)Z *		



NOTE  
SEE PAVEMENT MARKING DETAIL SHEET  
FOR ADDITIONAL PAVEMENT MARKING  
AND RAISED REFLECTIVE PAVEMENT MARKING  
LAYOUT AND MATERIALS.

REVISIONS	
NAME	DATE

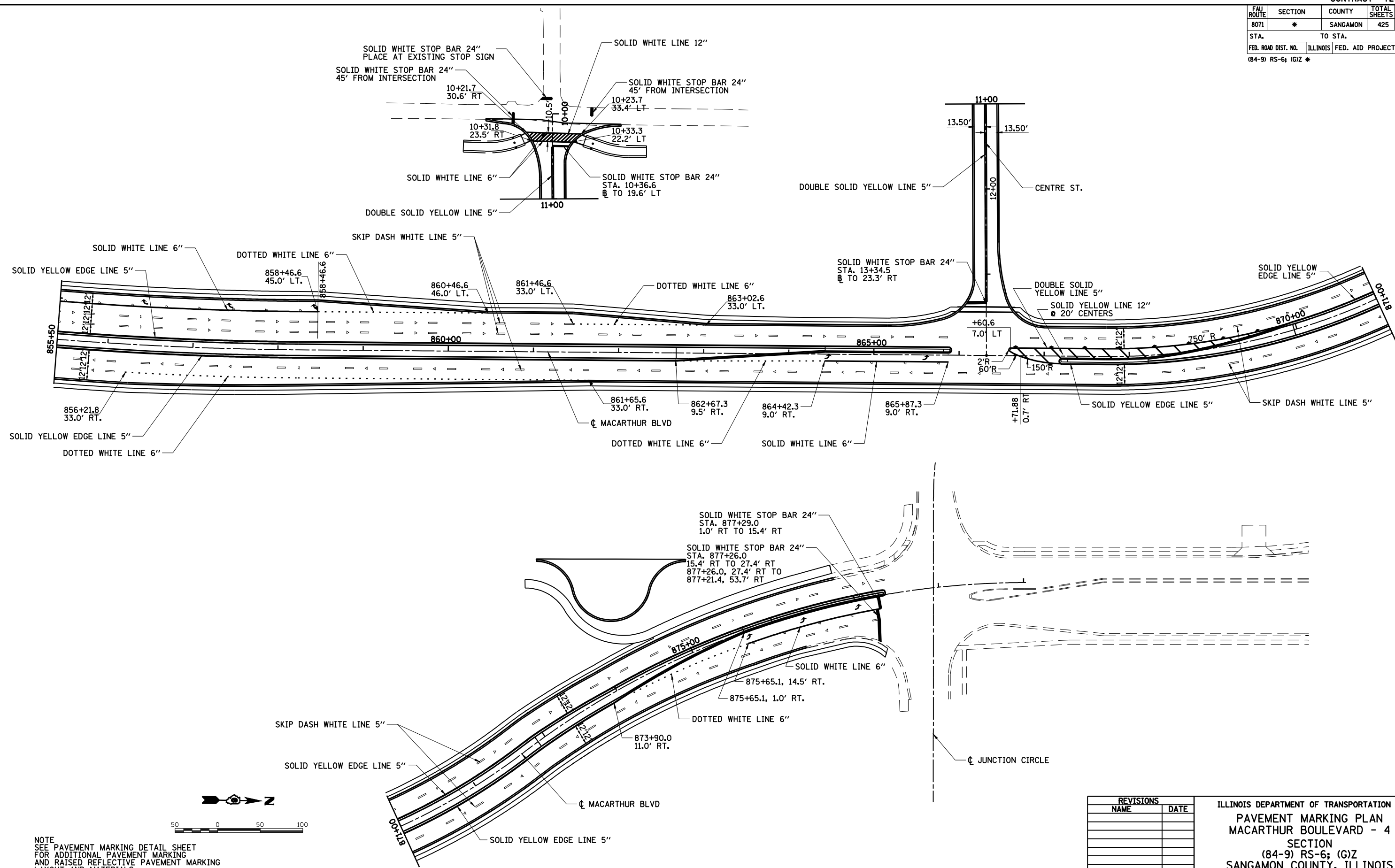
ILLINOIS DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKING PLAN  
MACARTHUR BOULEVARD - 3  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE: Mar-20-2008 09:36:54AM  
DRAWN BY: JAP  
CHECKED BY: JWM



Mar-20-2008 09:36:54AM  
#FILE#

LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	208
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

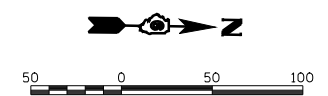


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10-20-2008 09:37:00AM  
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LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

NOTE  
 SEE PAVEMENT MARKING DETAIL SHEET  
 FOR ADDITIONAL PAVEMENT MARKING  
 AND RAISED REFLECTIVE PAVEMENT MARKING  
 LAYOUT AND MATERIALS.

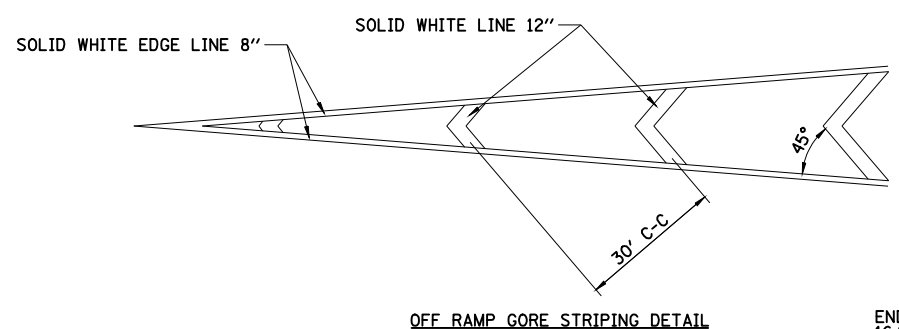


REVISIONS	
NAME	DATE

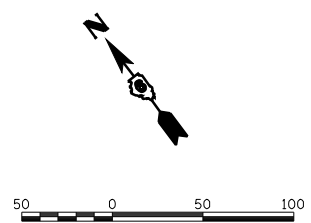
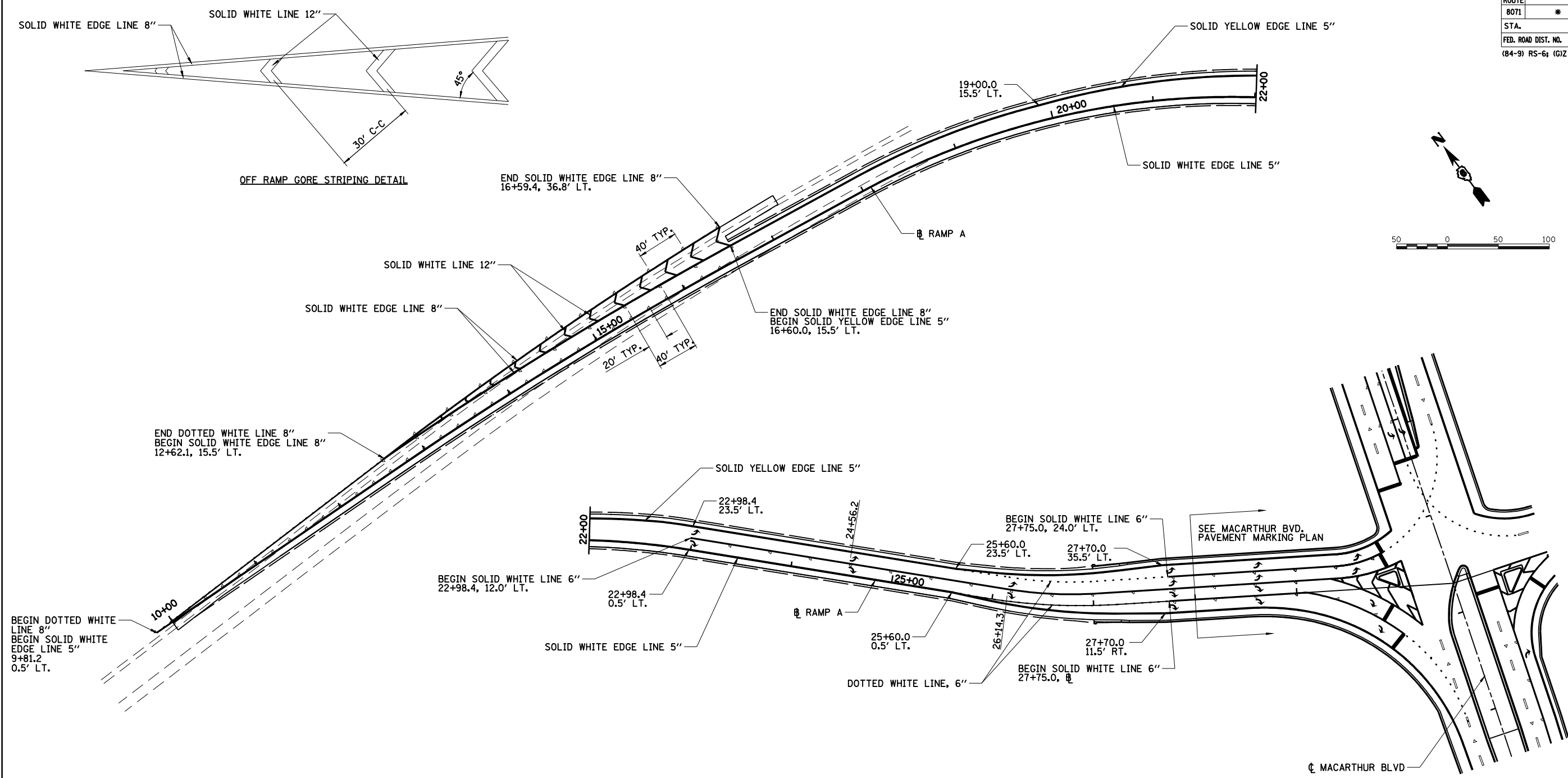
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING PLAN  
 MACARTHUR BOULEVARD - 4  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. DATE: Mar-20-2008 09:37:00AM  
 HORIZ. DRAWN BY: JAP  
 CHECKED BY: JMM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	209
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



OFF RAMP GORE STRIPING DETAIL



NOTE  
SEE PAVEMENT MARKING DETAIL SHEET  
FOR ADDITIONAL PAVEMENT MARKING  
AND RAISED REFLECTIVE PAVEMENT MARKING  
LAYOUT AND MATERIALS.

REVISIONS	
NAME	DATE

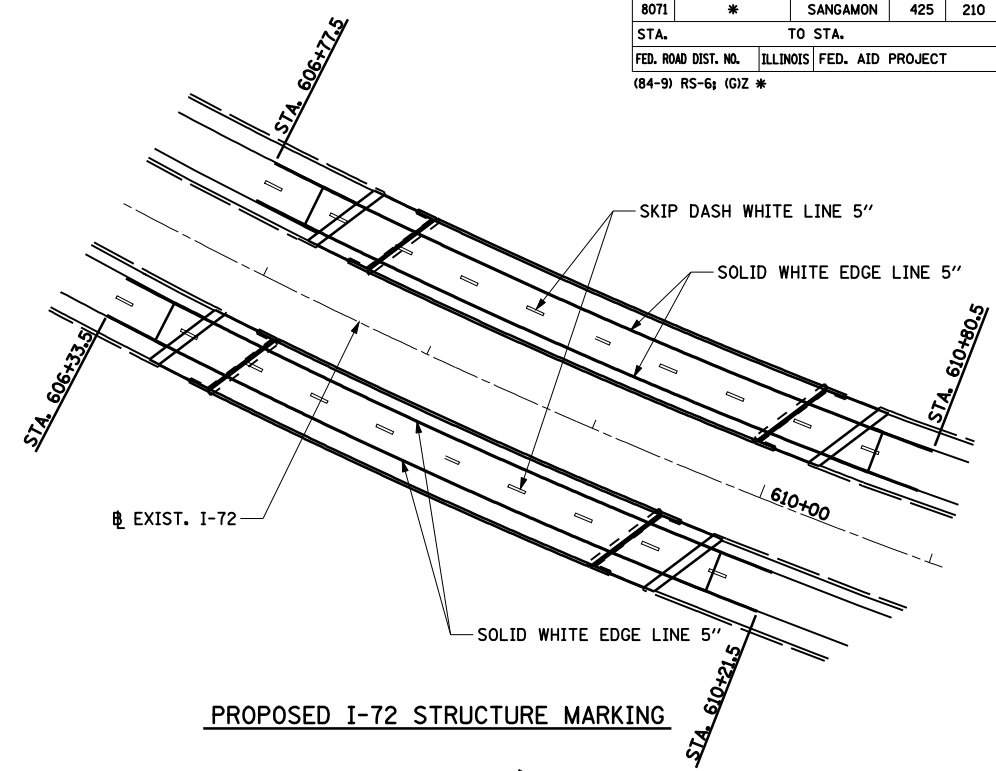
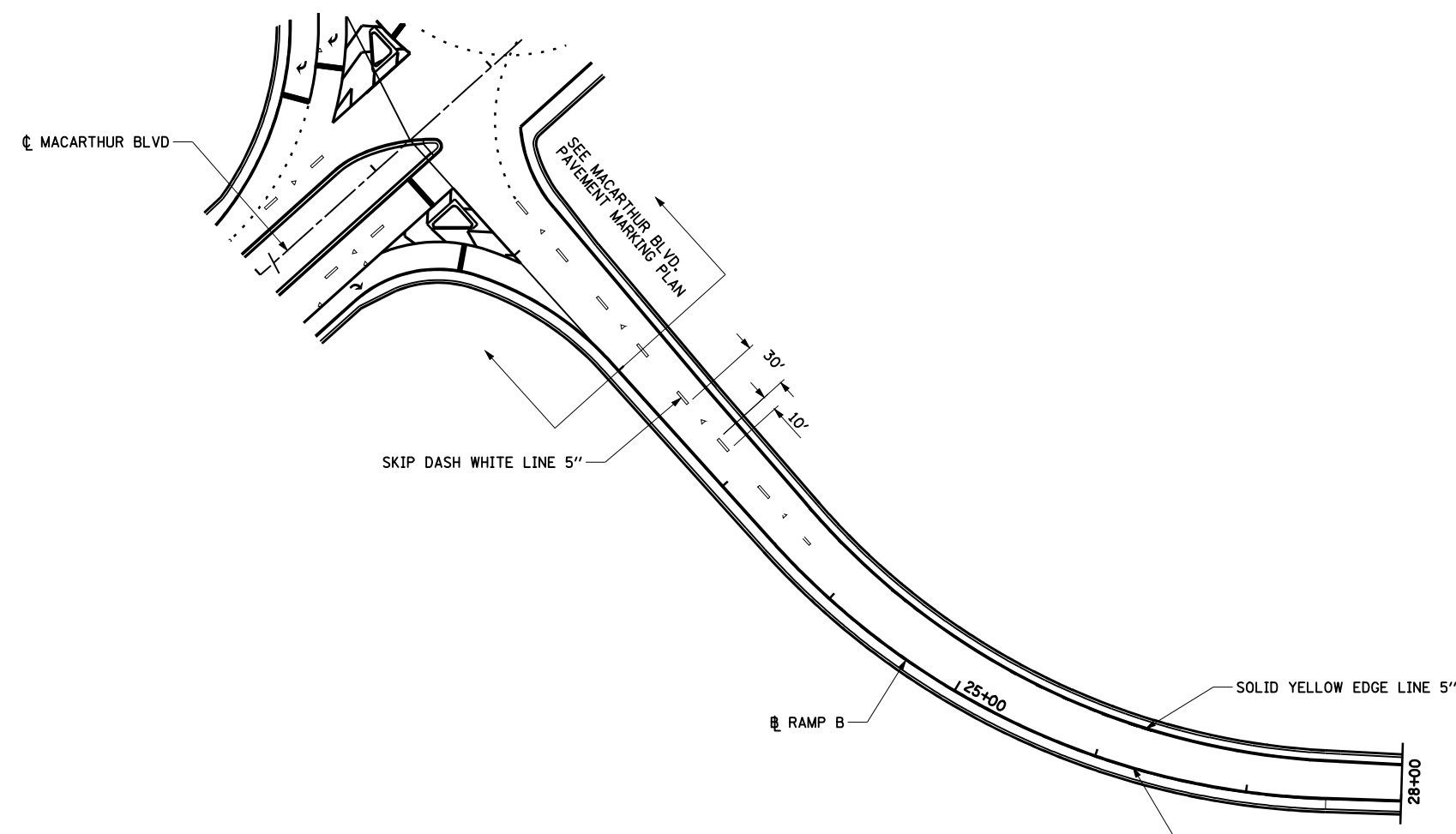
ILLINOIS DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKING PLAN  
RAMP A  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE: Mar-20-2008 09:37:05AM DRAWN BY: JAP  
CHECKED BY: JWM



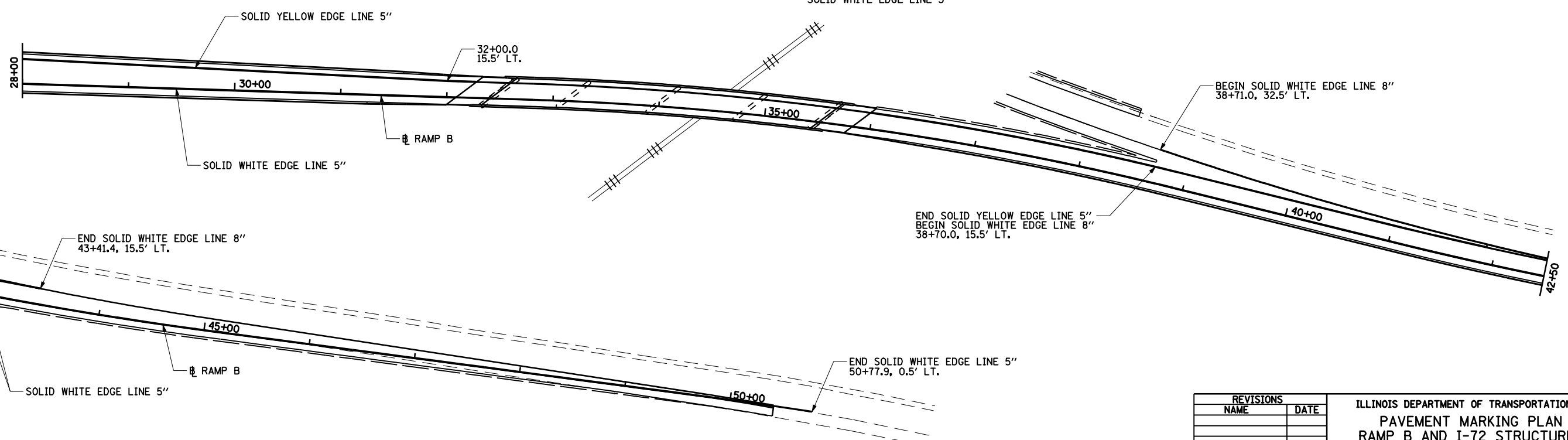
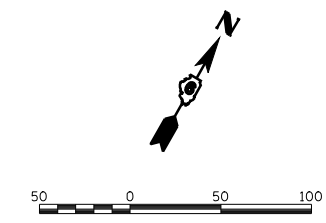
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DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	210
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



PROPOSED I-72 STRUCTURE MARKING

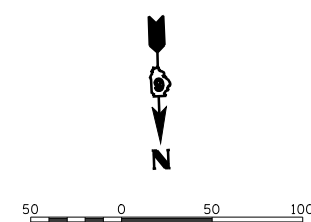
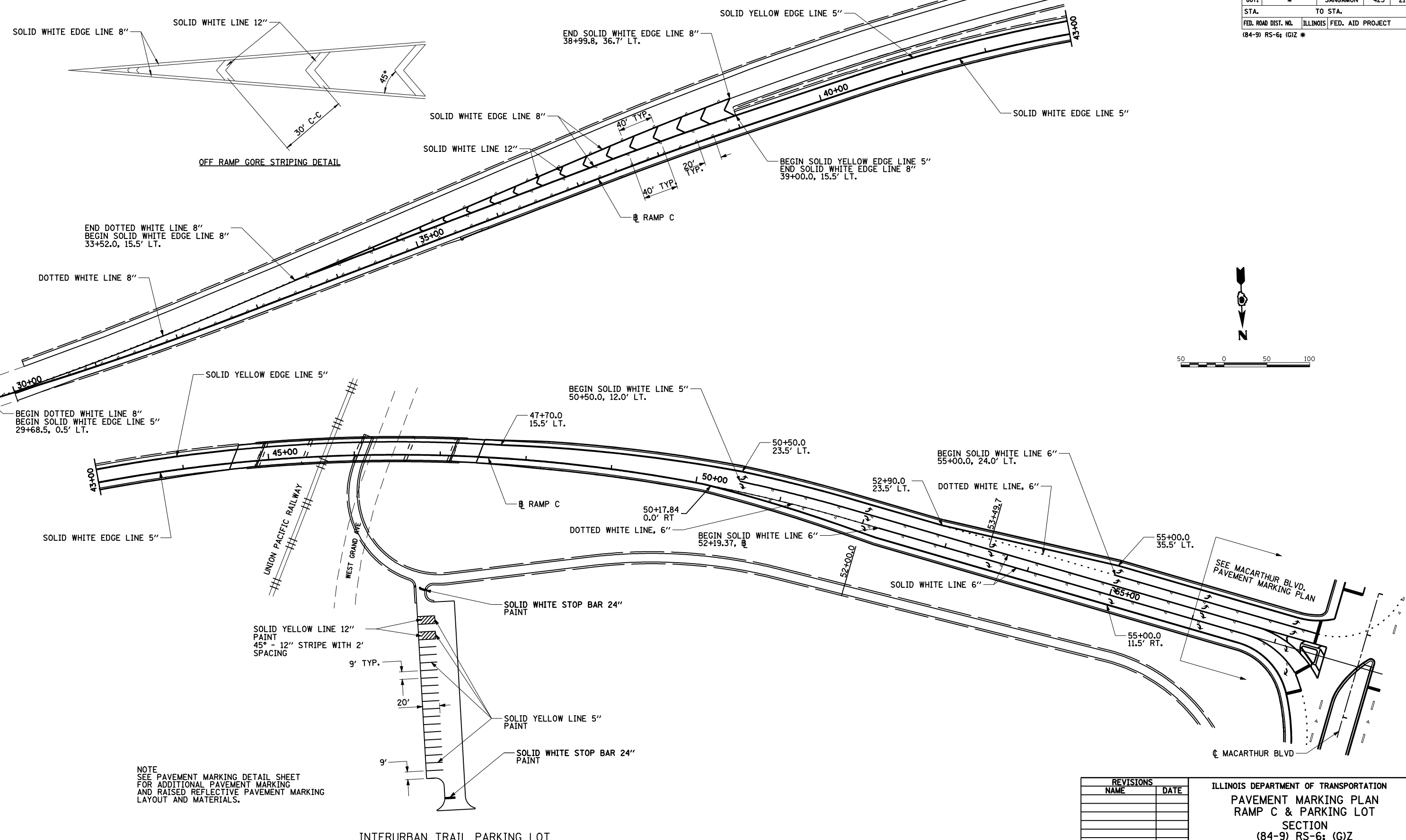


NOTE  
SEE PAVEMENT MARKING DETAIL SHEET  
FOR ADDITIONAL PAVEMENT MARKING  
AND RAISED REFLECTIVE PAVEMENT MARKING  
LAYOUT AND MATERIALS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PAVEMENT MARKING PLAN  
RAMP B AND I-72 STRUCTURES  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE: Mar-20-2008 09:37:11AM  
DRAWN BY: JAP  
CHECKED BY: JWM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	211
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



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LAYOUT	CLC	09/17/07
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REVIEWED	JMM	09/17/07

NOTE  
 SEE PAVEMENT MARKING DETAIL SHEET  
 FOR ADDITIONAL PAVEMENT MARKING  
 AND RAISED REFLECTIVE PAVEMENT MARKING  
 LAYOUT AND MATERIALS.

REVISIONS	
NAME	DATE

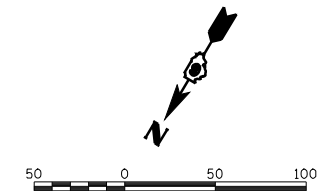
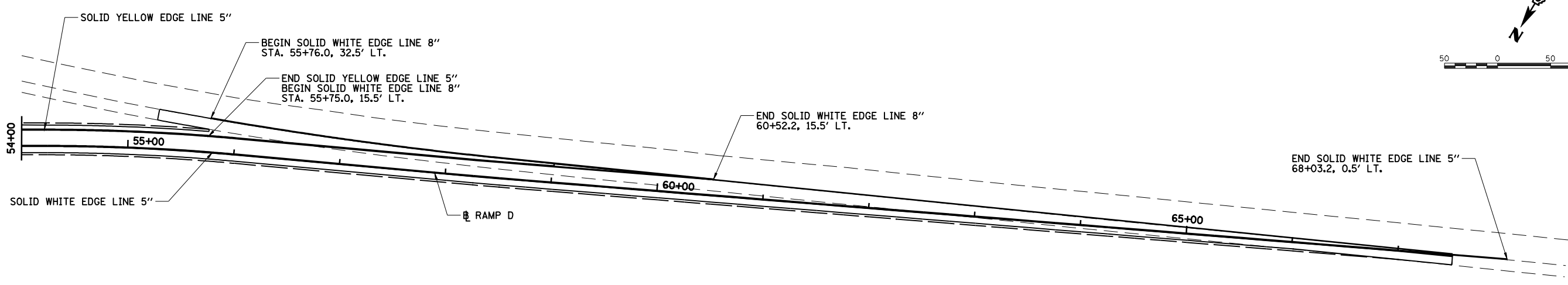
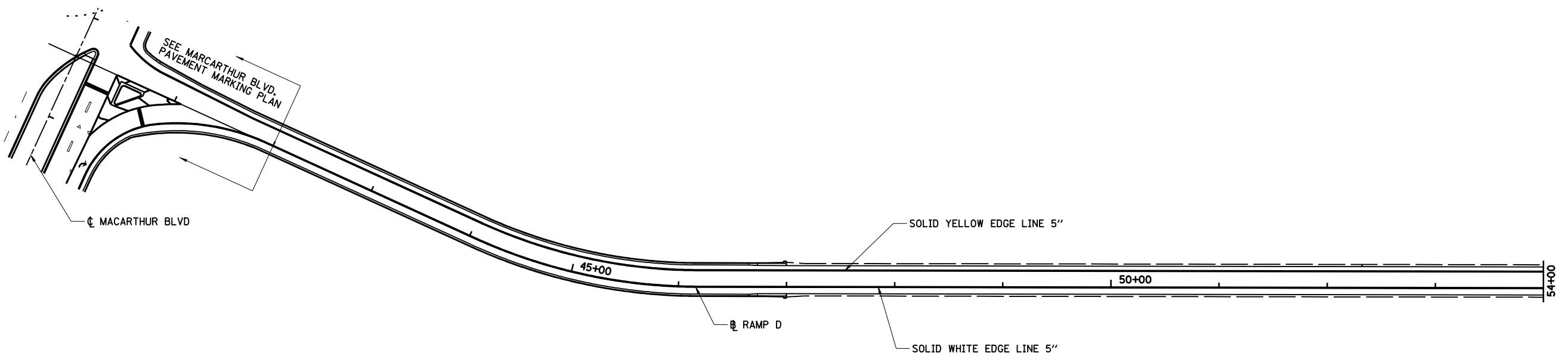
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING PLAN  
 RAMP C & PARKING LOT  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-20-2008 09:37:16AM

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 CHECKED BY: JMM

INTERURBAN TRAIL PARKING LOT

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	212
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



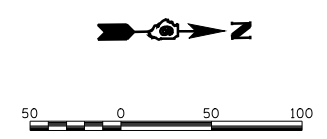
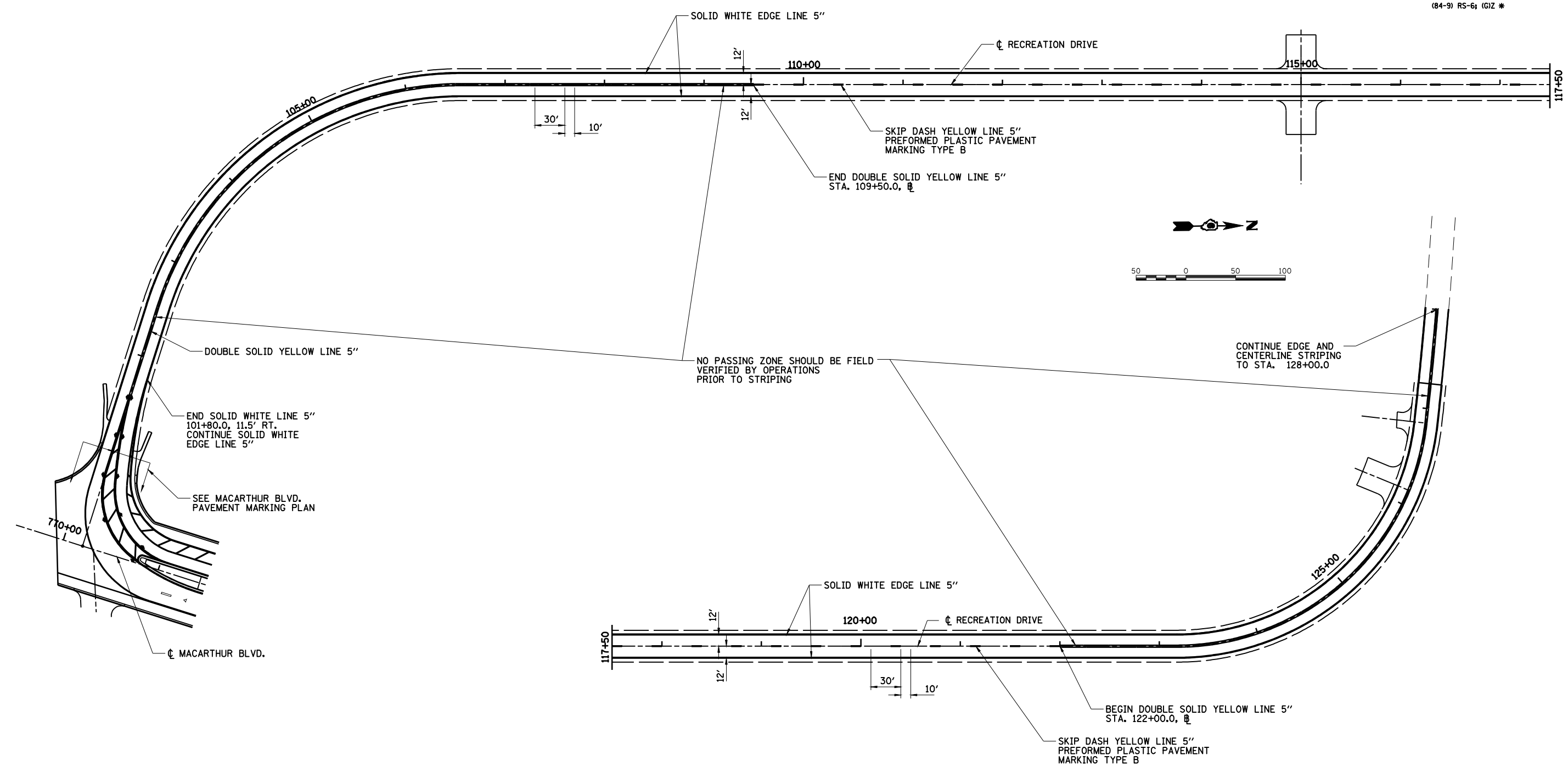
NOTE  
 SEE PAVEMENT MARKING DETAIL SHEET  
 FOR ADDITIONAL PAVEMENT MARKING  
 AND RAISED REFLECTIVE PAVEMENT MARKING  
 LAYOUT AND MATERIALS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING PLAN  
 RAMP D  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-20-2008 09:37:22AM  
 DRAWN BY: JAP  
 CHECKED BY: JWM



FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. TO STA.		ILLINOIS FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

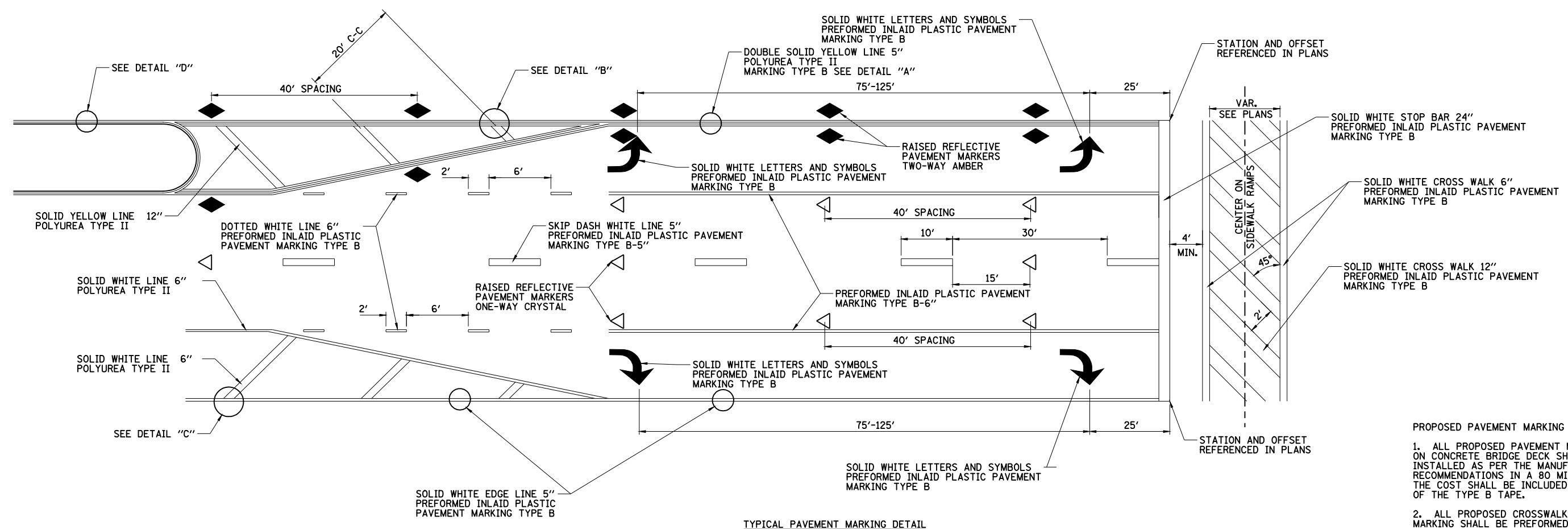
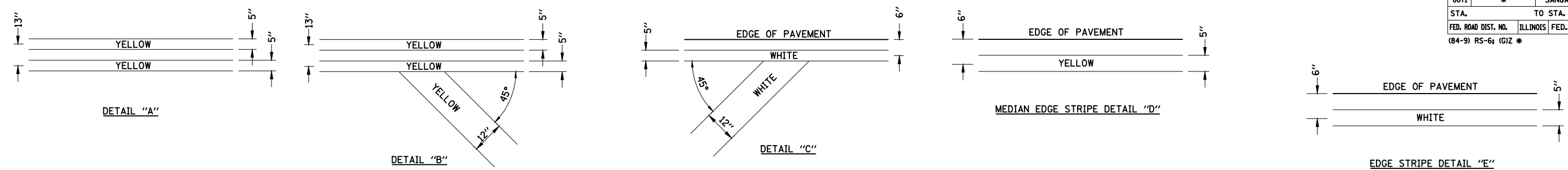


NOTE  
SEE PAVEMENT MARKING DETAIL SHEET  
FOR ADDITIONAL PAVEMENT MARKING  
AND RAISED REFLECTIVE PAVEMENT MARKING  
LAYOUT AND MATERIALS.

REVISIONS	
NAME	DATE

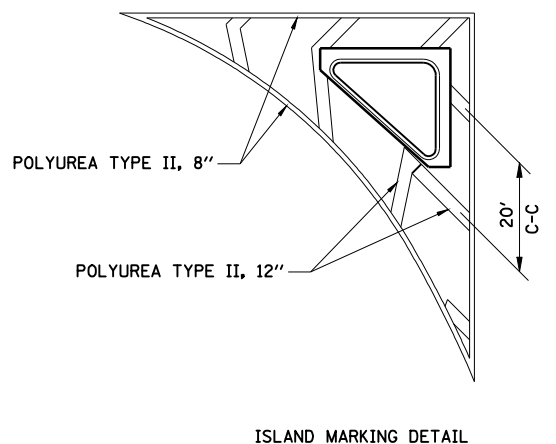
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING PLAN**  
**RECREATION DRIVE**  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-20-2008 09:37:27AM  
 DRAWN BY: JAP  
 CHECKED BY: JWM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	214
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



TYPICAL PAVEMENT MARKING DETAIL

- PROPOSED PAVEMENT MARKING NOTES
1. ALL PROPOSED PAVEMENT MARKING ON CONCRETE BRIDGE DECK SHALL BE INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS IN A 80 MIL GROOVE. THE COST SHALL BE INCLUDED IN THE PRICE OF THE TYPE B TAPE.
  2. ALL PROPOSED CROSSWALK PAVEMENT MARKING SHALL BE PERFORMED INLAID PLASTIC PAVEMENT MARKING TYPE B.



ISLAND MARKING DETAIL

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REVIEWED	JMM	09/17/07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PAVEMENT MARKING PLAN  
 DETAILS  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

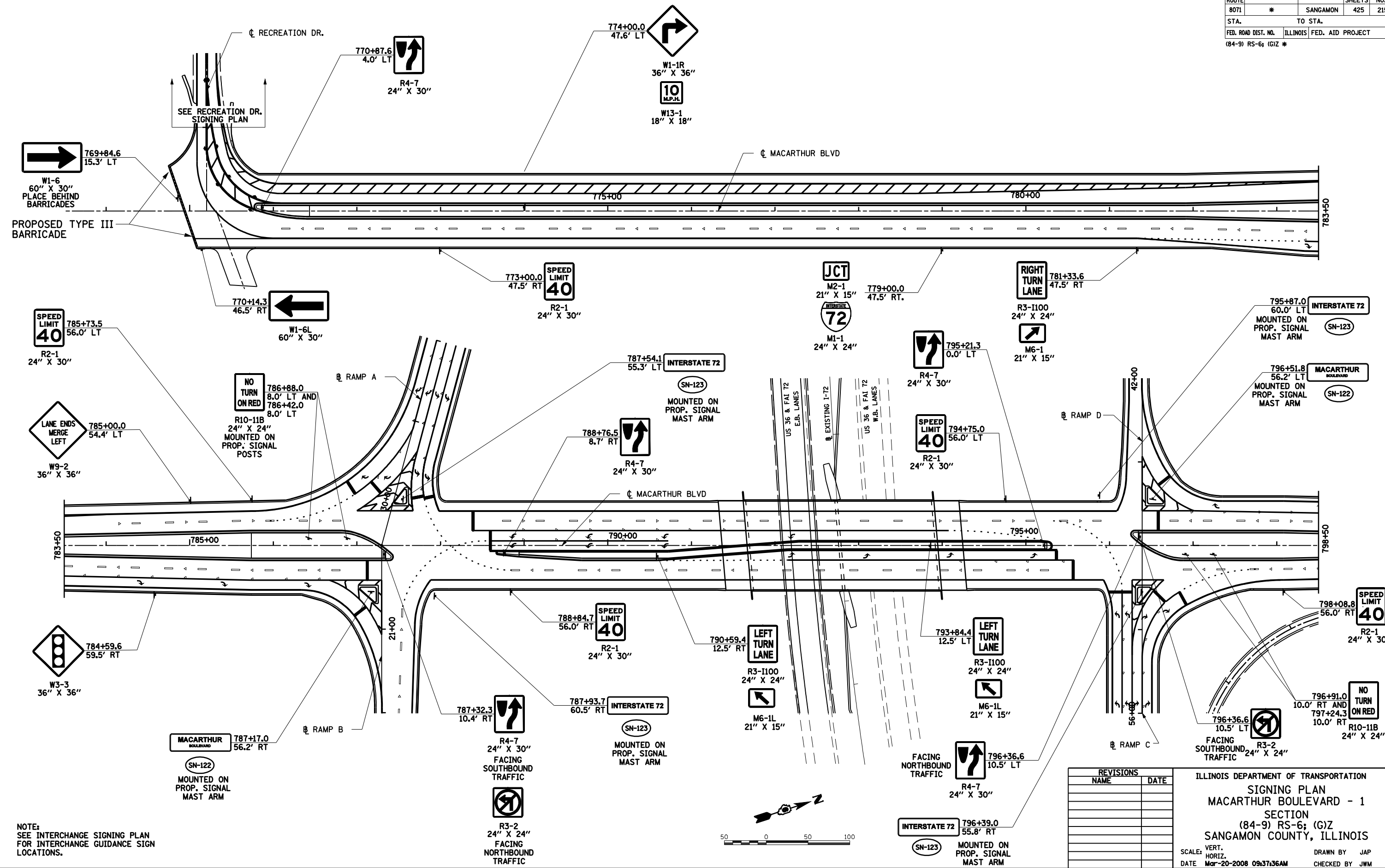
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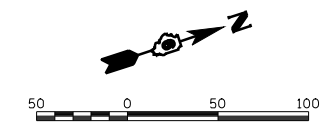
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



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 REVIEWED JMM 09/17/07



NOTE:  
 SEE INTERCHANGE SIGNING PLAN  
 FOR INTERCHANGE GUIDANCE SIGN  
 LOCATIONS.

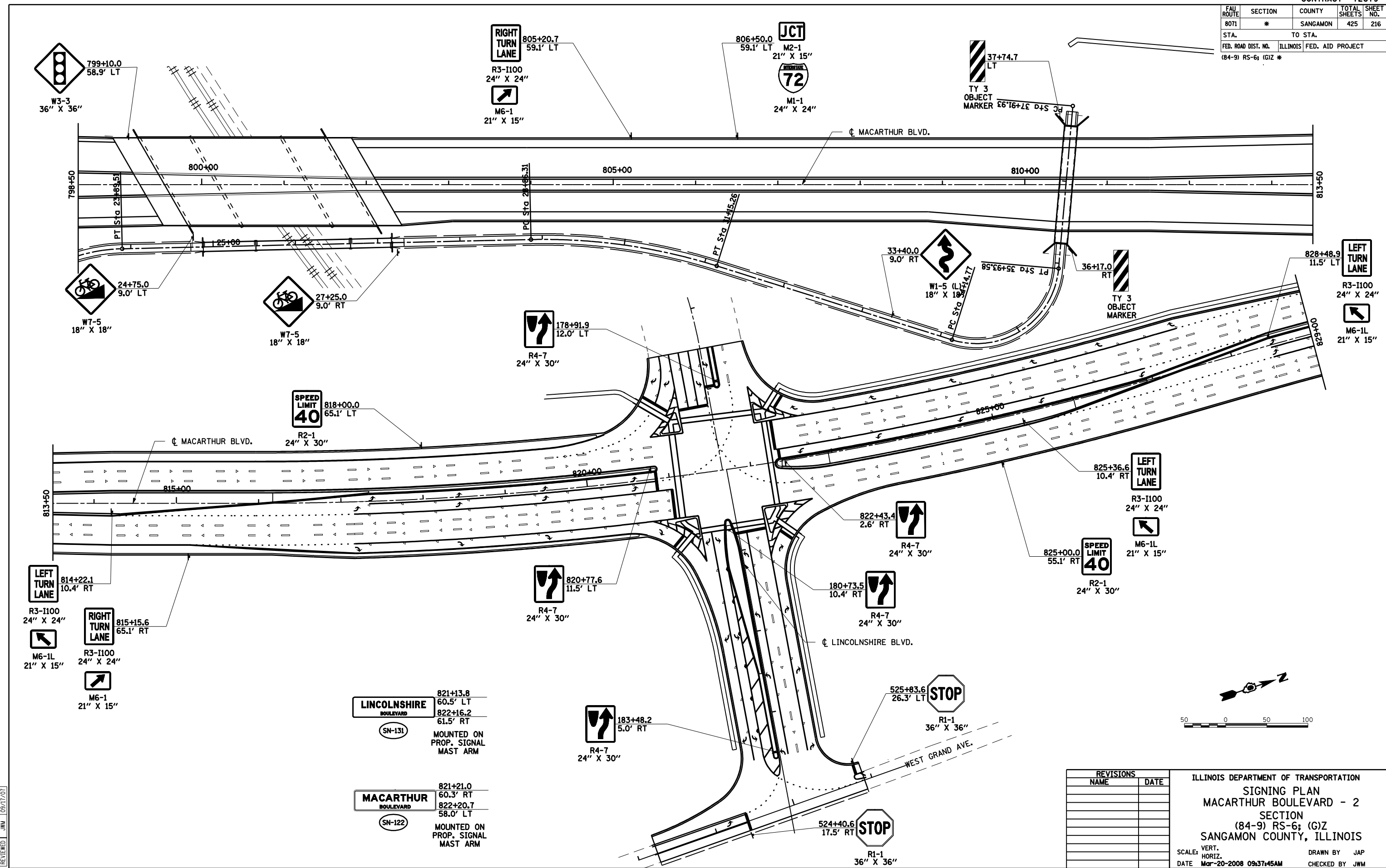


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 MACARTHUR BOULEVARD - 1  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. HORIZ.  
 DATE: Mar-20-2008 09:37:36AM  
 DRAWN BY: JAP  
 CHECKED BY: JWM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	216
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

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**LINCOLNSHIRE BOULEVARD**  
 SN-131  
 MOUNTED ON PROP. SIGNAL MAST ARM  
 821+13.8 60.5' LT  
 822+16.2 61.5' RT

**MACARTHUR BOULEVARD**  
 SN-122  
 MOUNTED ON PROP. SIGNAL MAST ARM  
 821+21.0 60.3' RT  
 822+20.7 58.0' LT

REVISIONS	
NAME	DATE

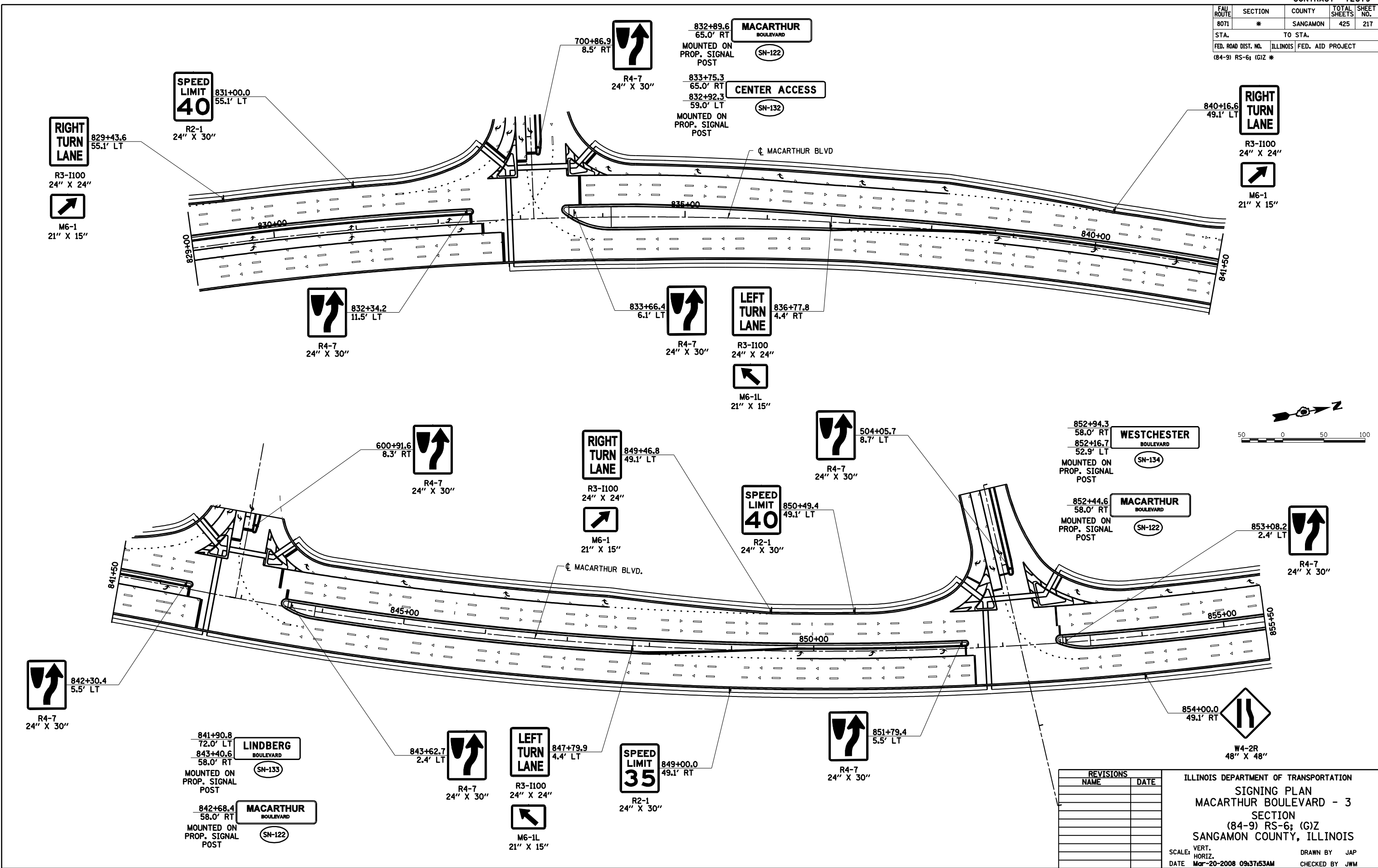
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLAN**  
**MACARTHUR BOULEVARD - 2**  
**SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**  
 SCALE: VERT. DATE: Mar-20-2008 09:37:45AM  
 DRAWN BY: JAP  
 CHECKED BY: JWM

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 REVIEWED: JMM 09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	217
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

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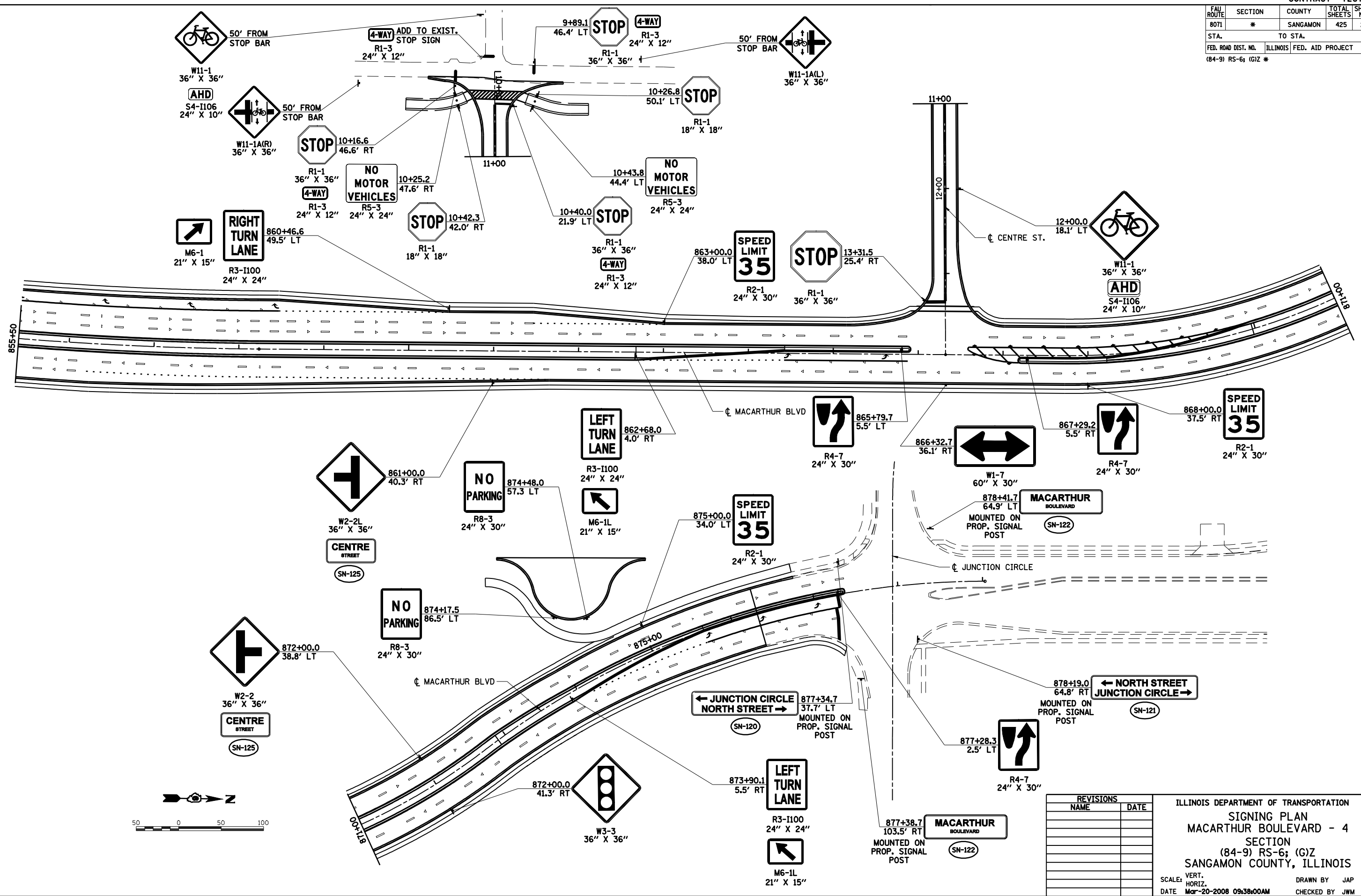
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 DRAWN CLG 09/17/07  
 REVIEWED JMW 09/17/07



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 MACARTHUR BOULEVARD - 3  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT.      DRAWN BY JAP  
 HORIZ.              CHECKED BY JMW  
 DATE Mar-20-2008 09:37:53AM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	218
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

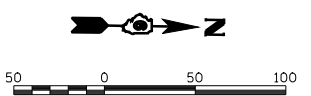


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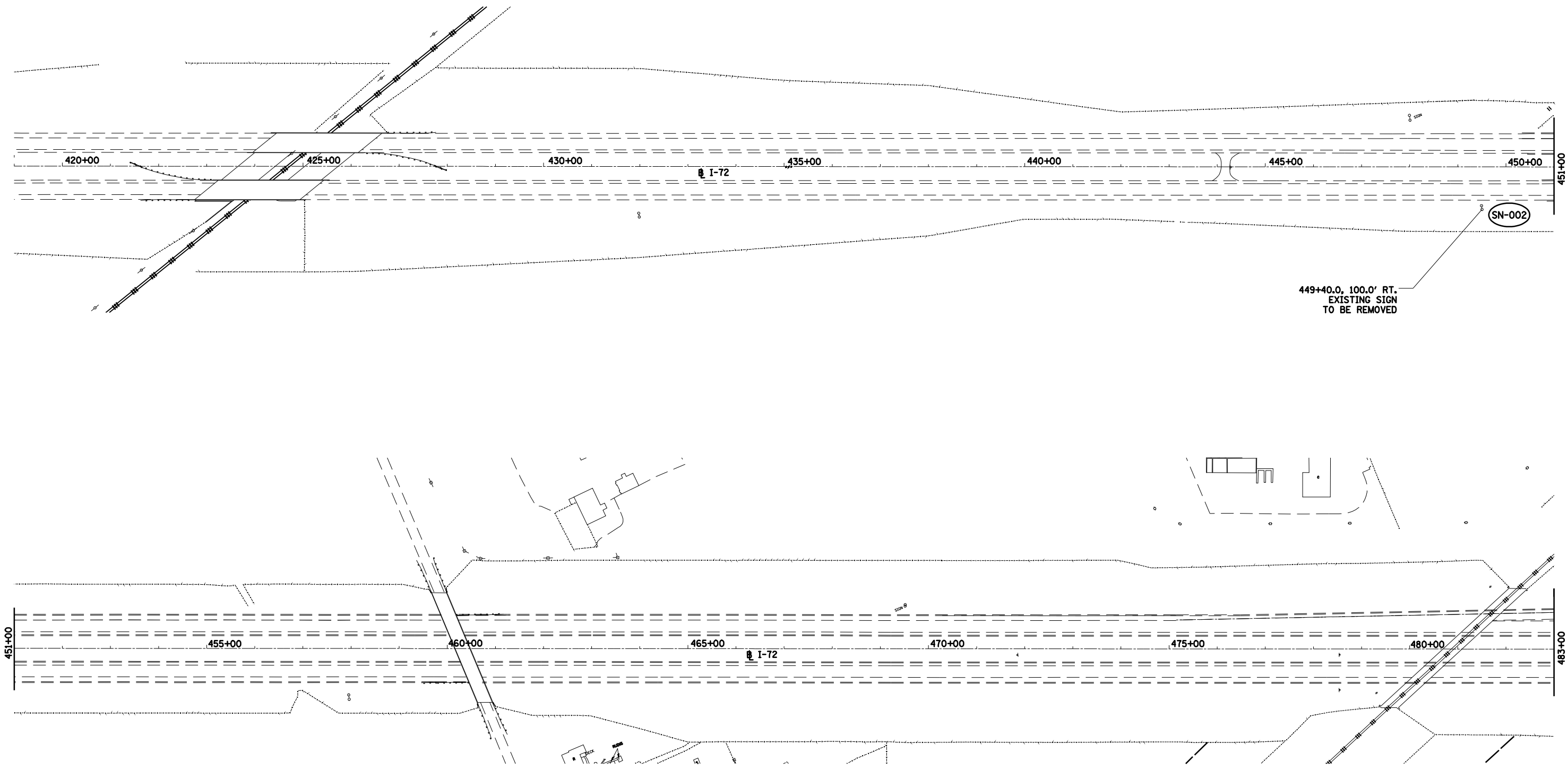
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DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
MACARTHUR BOULEVARD - 4  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
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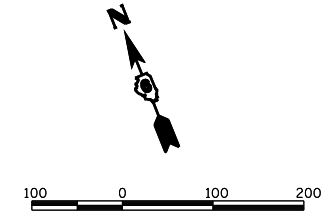
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	219
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



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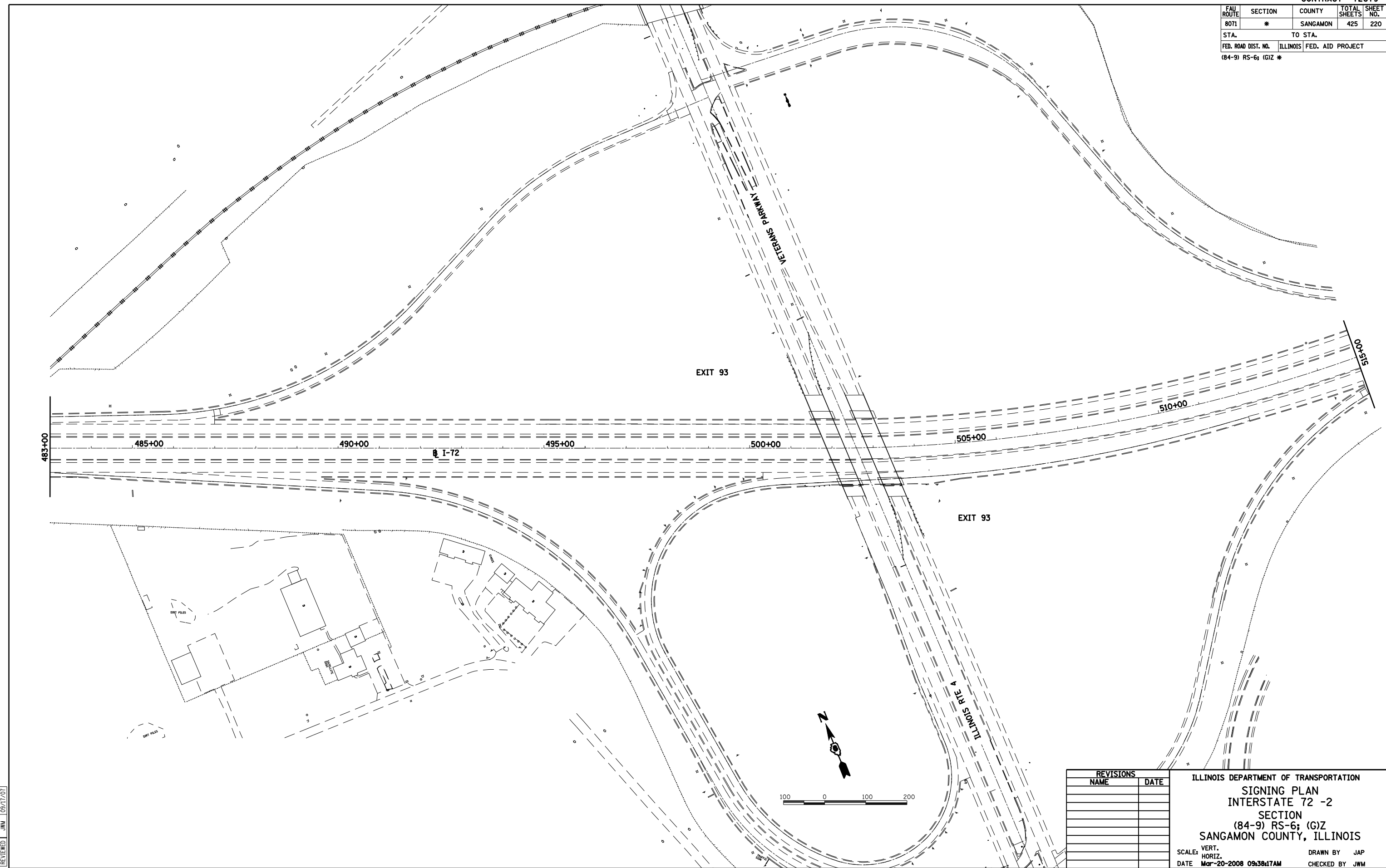
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DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 INTERSTATE 72 -1  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-20-2008 09:38:09AM  
 DRAWN BY: JAP  
 CHECKED BY: JMM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	220
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



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DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

REVISIONS	
NAME	DATE

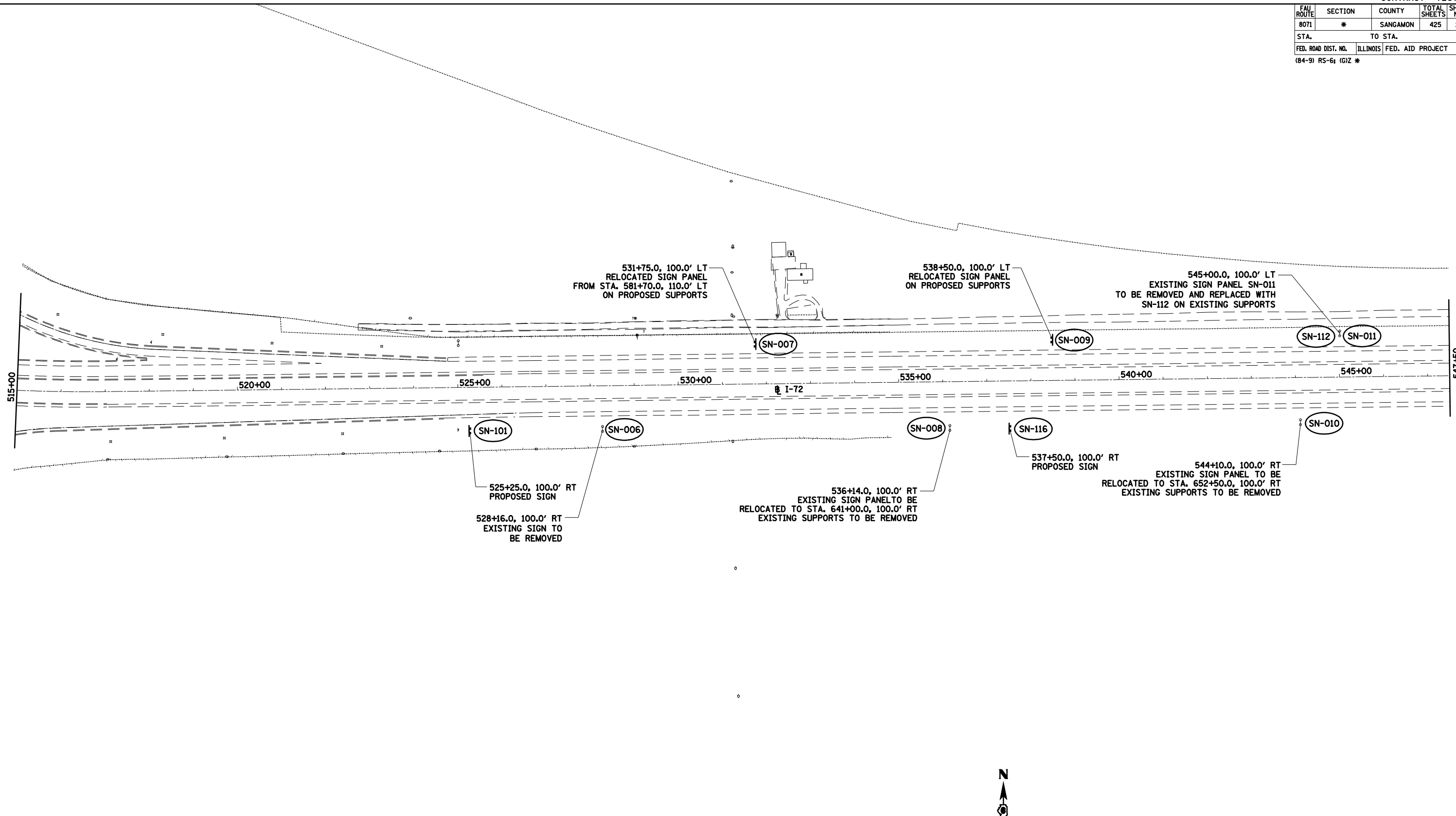
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLAN**  
**INTERSTATE 72 -2**  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
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 DATE: Mar-20-2008 09:38:17 AM

DRAWN BY: JAP  
 CHECKED BY: JWM



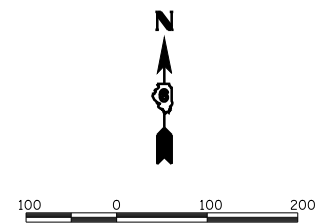
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8071	*	SANGAMON	425	221
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



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LAYOUT	CLG	09/17/01
DRAWN	CLG	09/17/01
REVIEWED	JMM	09/17/01



REVISIONS	
NAME	DATE

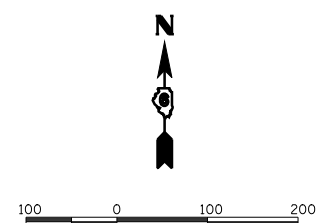
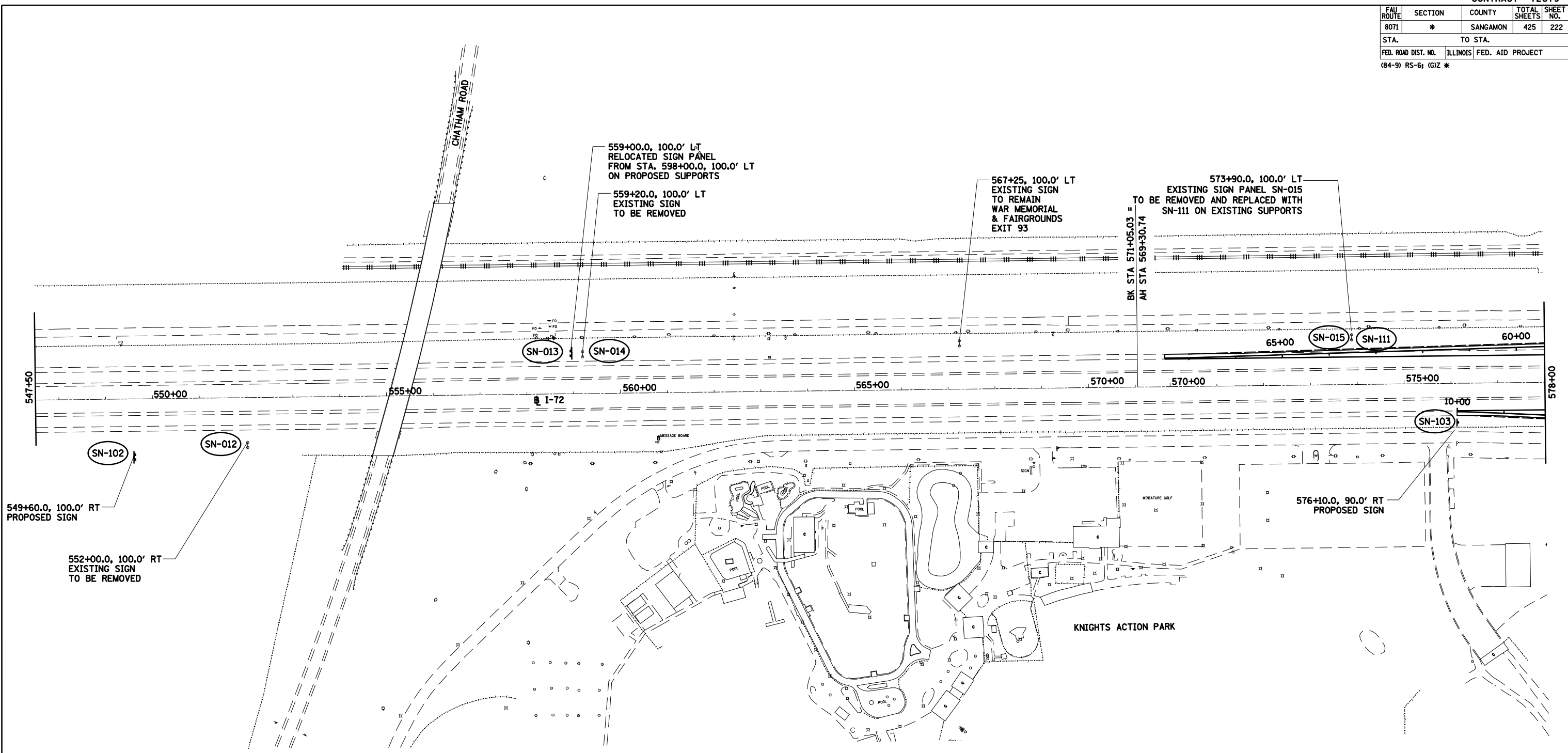
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 INTERSTATE 72 -3  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE Mar-20-2008 09:38:25AM  
 DRAWN BY JAP  
 CHECKED BY JMM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	222
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



Mar-20-2008 09:38:32AM  
 \$FILE\$

LAYOUT	CLG	09/17/01
DRAWN	CLG	09/17/01
REVIEWED	JMM	09/17/01



REVISIONS	
NAME	DATE

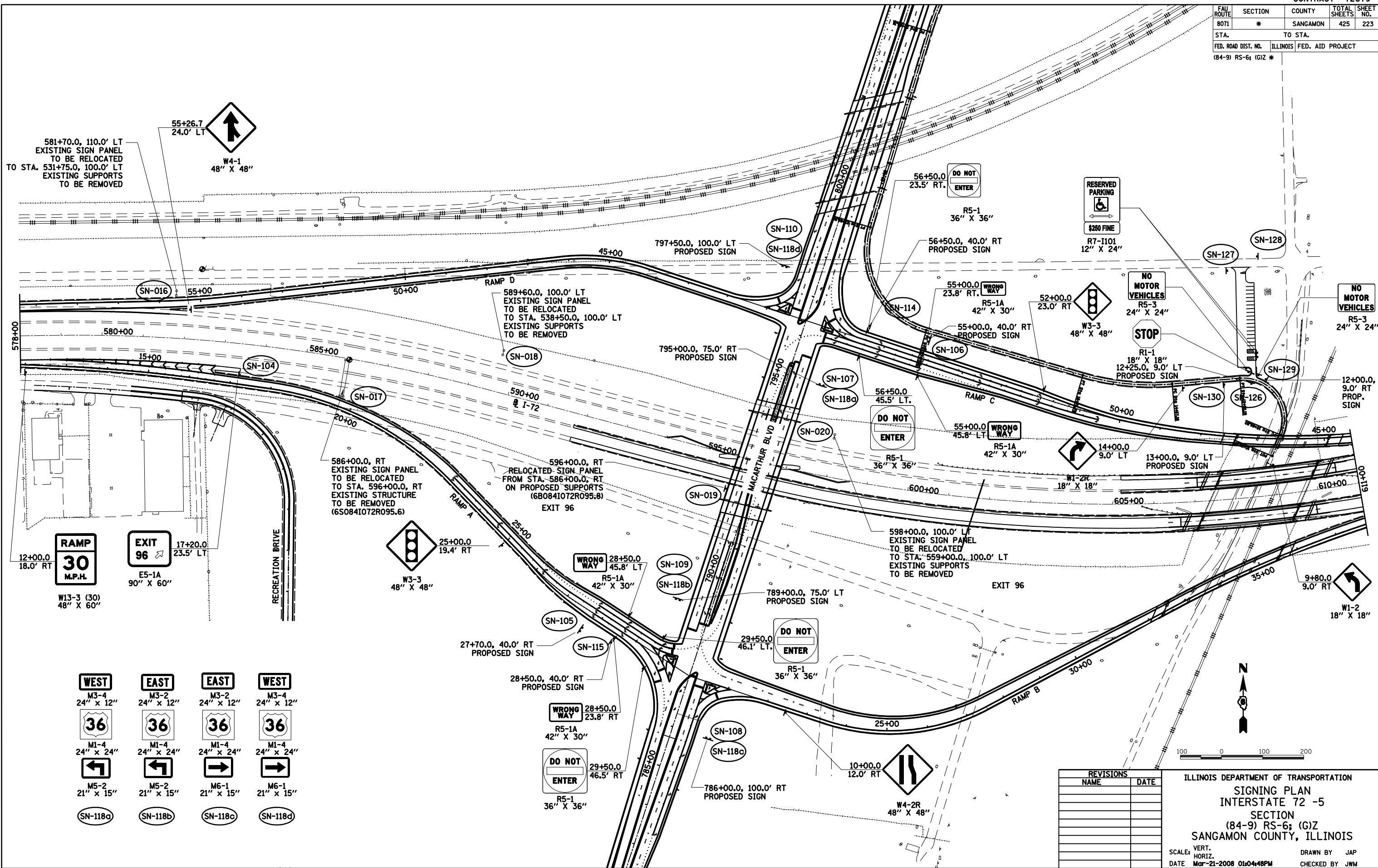
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 INTERSTATE 72 -4  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. DATE Mar-20-2008 09:38:32AM  
 HORIZ. DRAWN BY JAP  
 CHECKED BY JMM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	223
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



Mar-21-2008 01:04:48PM  
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 LAYOUT CLG 09/17/01  
 DRAWING CLG 09/17/01  
 REVIEWED JMW 09/17/01

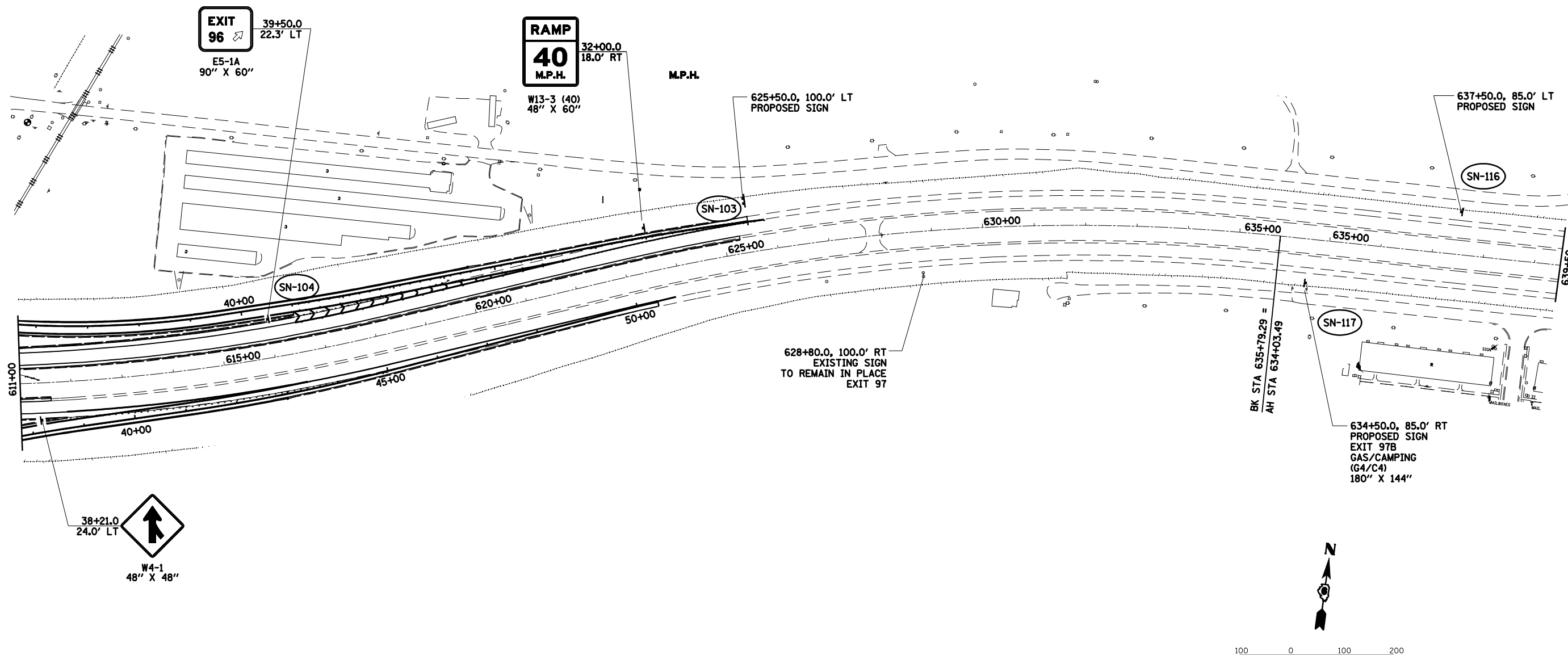


<b>WEST</b> M3-4 24" x 12"	<b>EAST</b> M3-2 24" x 12"	<b>EAST</b> M3-2 24" x 12"	<b>WEST</b> M3-4 24" x 12"
<b>36</b> M1-4 24" x 24"	<b>36</b> M1-4 24" x 24"	<b>36</b> M1-4 24" x 24"	<b>36</b> M1-4 24" x 24"
<b>←</b> M5-2 21" x 15"	<b>←</b> M5-2 21" x 15"	<b>→</b> M6-1 21" x 15"	<b>→</b> M6-1 21" x 15"
SN-118a	SN-118b	SN-118c	SN-118d

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 INTERSTATE 72 -5  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. 1" = 40'  
 HORIZ. 1" = 100'  
 DATE: Mar-21-2008 01:04:48PM  
 DRAWN BY: JAP  
 CHECKED BY: JMW

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	224
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



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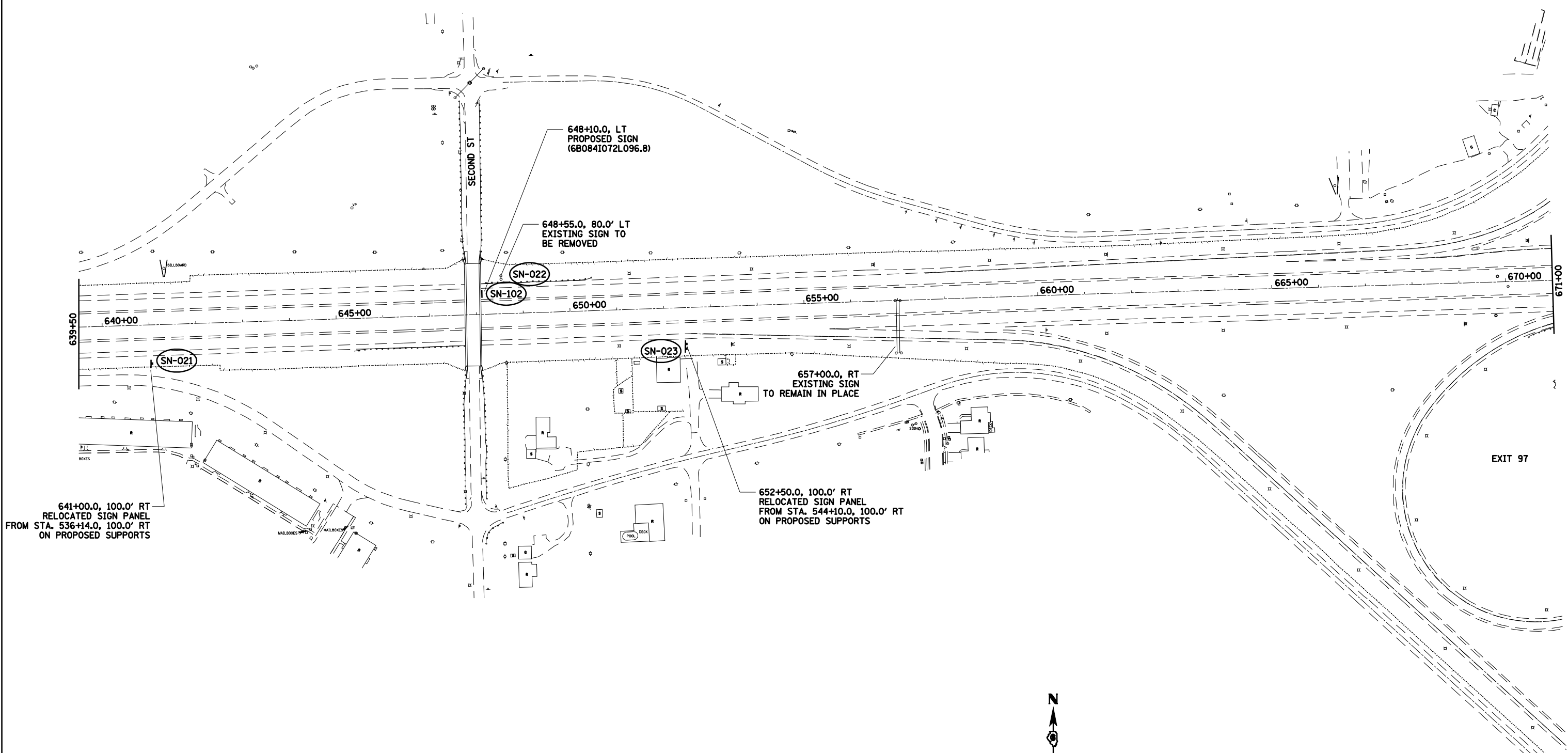
Mar-21-2008 01:04:55PM \$FILES\*

LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

REVISIONS	
NAME	DATE

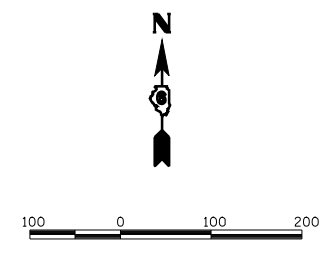
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 INTERSTATE 72 -6  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-21-2008 01:04:55PM  
 DRAWN BY: JAP  
 CHECKED BY: JWM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	225
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		(84-9) RS-6; (G)Z *		



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**HANSON**

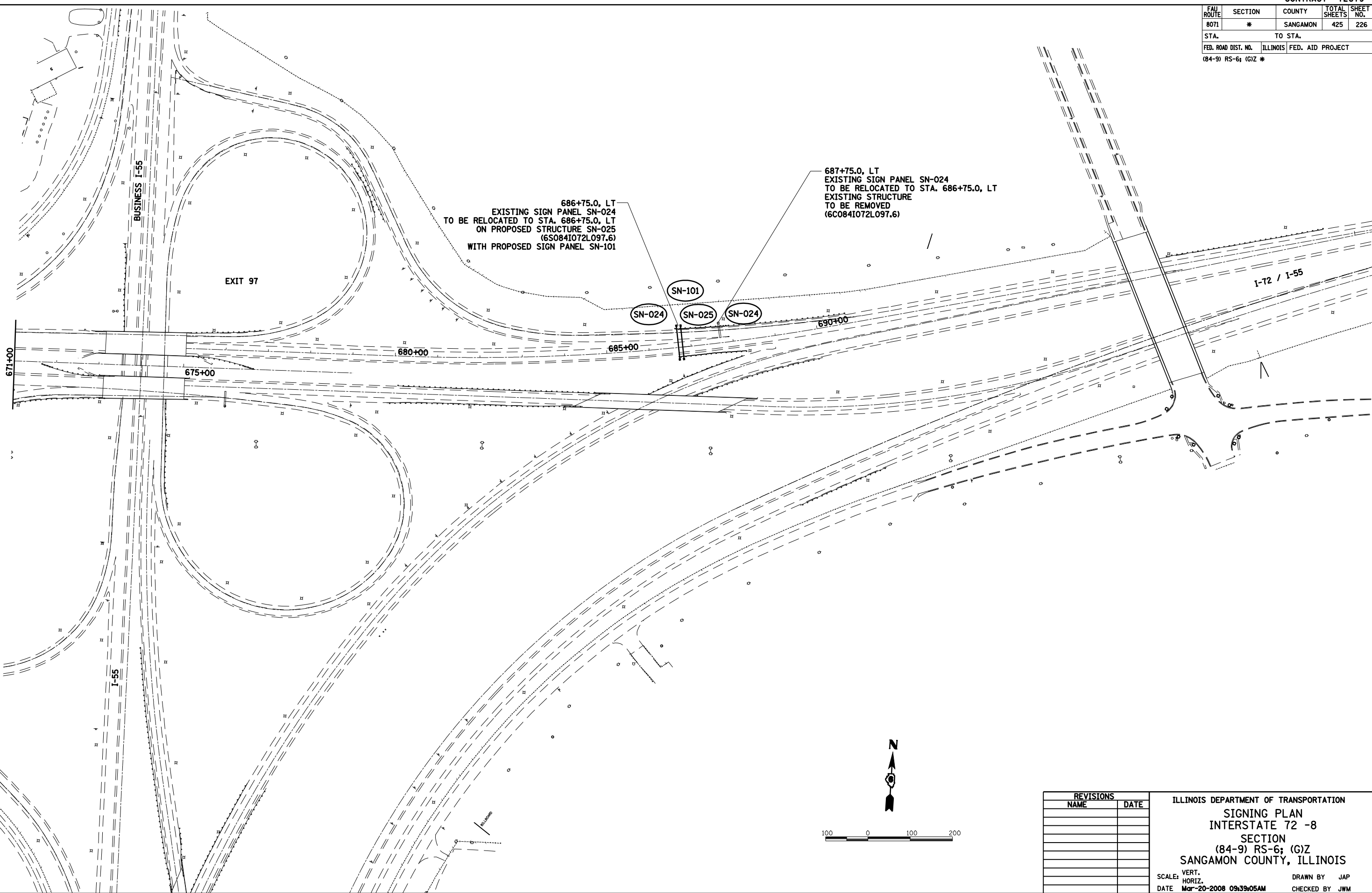
LAYOUT	CLG	09/17/01
DRAWN	CLG	09/17/01
REVIEWED	JMM	09/17/01



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SIGNING PLAN**  
**INTERSTATE 72 -7**  
**SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**  
 SCALE: VERT. \_\_\_\_\_ DRAWN BY JAP  
 HORIZ. \_\_\_\_\_ CHECKED BY JMM  
 DATE Mar-20-2008 09:38:57AM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	226
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



686+75.0, LT  
EXISTING SIGN PANEL SN-024  
TO BE RELOCATED TO STA. 686+75.0, LT  
ON PROPOSED STRUCTURE SN-025  
(6S0841072L097.6)  
WITH PROPOSED SIGN PANEL SN-101

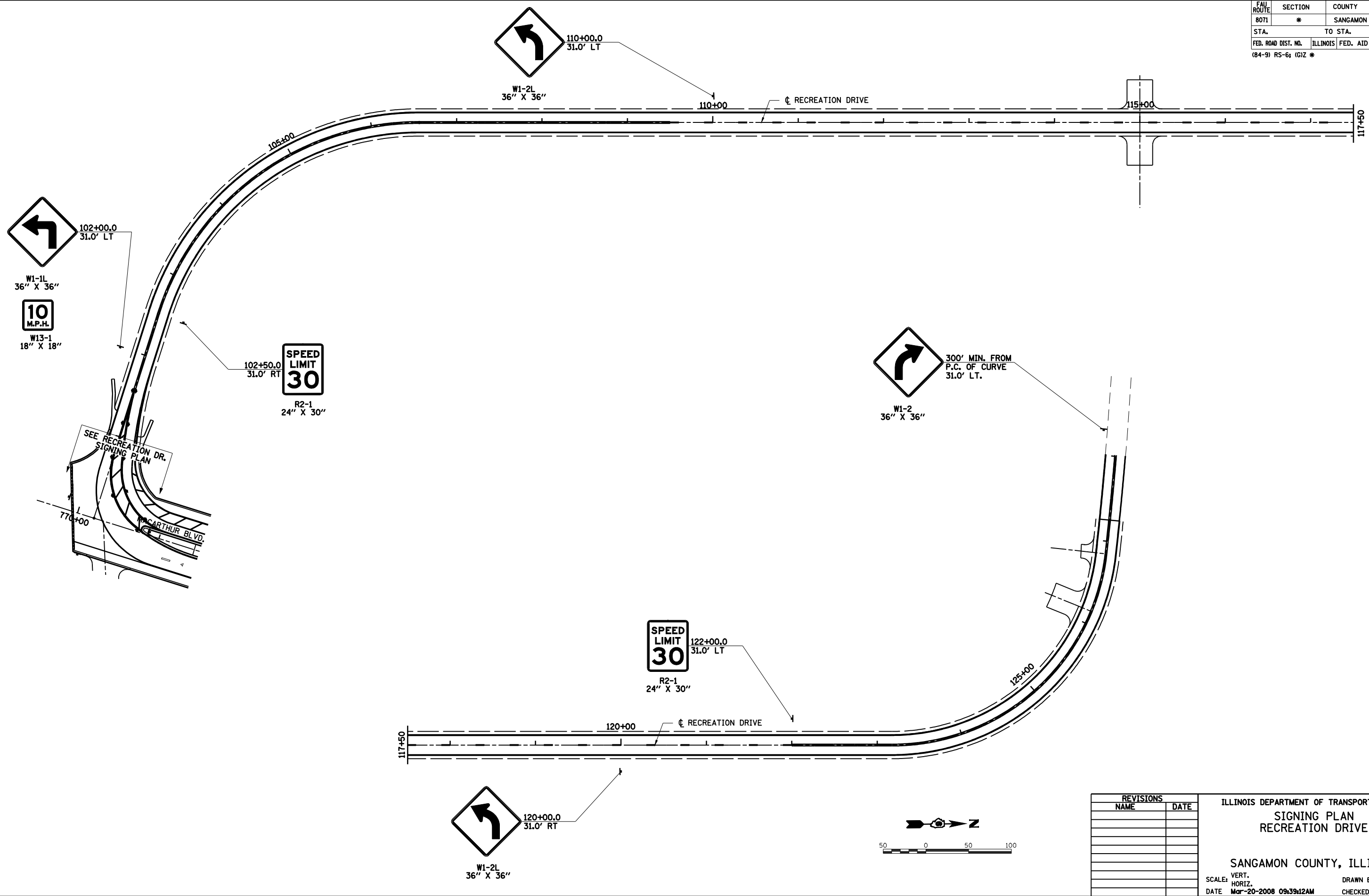
687+75.0, LT  
EXISTING SIGN PANEL SN-024  
TO BE RELOCATED TO STA. 686+75.0, LT  
EXISTING STRUCTURE  
TO BE REMOVED  
(6C0841072L097.6)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
INTERSTATE 72 -8  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE Mar-20-2008 09:39:05AM DRAWN BY JAP  
CHECKED BY JWM

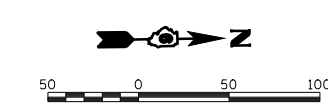
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	227
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



03/20/2008 09:39:22AM  
 \$FILES\$  
 LAYOUT CLG 09/17/07  
 DRAWN CLG 09/17/07  
 REVIEWED JMW 09/17/07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 RECREATION DRIVE  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-20-2008 09:39:22AM  
 DRAWN BY: JAP  
 CHECKED BY: JMW



FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	228
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

**SIGN DETAIL**

SIGN NUMBER	SNOO1
WIDTH x HEIGHT	20'-6" x 8'-6"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND / OVERHEAD
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT

Y FONT	LETTER POSITIONS (X)	HT LEN
80.8 EM	<b>E X I T</b>	10.0 31.5
78.3 EM	<b>9 6</b>	15.0 27.0
40.3 EM	<b>M a c A r t h u r B l v d .</b>	16.0 209.2
15.8 EM	<b>M I L E</b>	10.0 33.0
13.3 EM	<b>1</b>	15.0 4.4

SN-101

**SIGN DETAIL**

SIGN NUMBER	SNOO2
WIDTH x HEIGHT	20'-6" x 8'-6"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND / OVERHEAD
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT

Y FONT	LETTER POSITIONS (X)	HT LEN
81.7 EM	<b>E X I T</b>	10.0 31.5
79.2 EM	<b>9 6</b>	15.0 27.0
41.2 EM	<b>M a c A r t h u r B l v d .</b>	16.0 209.2
15.8 EM	<b>M I L E</b>	10.0 33.1
13.3 EM	<b>1 / 2</b>	15.0 24.6

SN-102

**SIGN DETAIL**

SIGN NUMBER	SNOO3
WIDTH x HEIGHT	20'-6" x 9'-6"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG,45deg	108.3	12.1	29.4	29.4

Y FONT	LETTER POSITIONS (X)	HT LEN
94.0 EM	<b>E X I T</b>	10.0 31.5
91.5 EM	<b>9 6</b>	15.0 27.0
53.5 EM	<b>M a c A r t h u r B l v d .</b>	16.0 209.2

SN-103

**SIGN DETAIL**

SIGN NUMBER	name
WIDTH x HEIGHT	11'-0" x 8'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	9"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green/Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ARMED	9.7	48.8	8	18.8
ARMED	109.8	18.8	18.8	8

Y FONT	LETTER POSITIONS (X)	LENGTH	SERIES/SIZE
80.8	<b>S p r i n g f i e l d</b>	68.8	EM86
79.2	<b>K n i g h t ' s</b>	51.5	EM86
77.6	<b>R e c r e a t i o n D r .</b>	90.1	EM86

SN-105

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
GUIDANCE SIGN DETAILS - 1  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT.  
HORIZ.  
DATE: Mar-20-2008 10:06:30AM

DRAWN BY: JAP  
CHECKED BY: JWM



Mar-20-2008 10:06:30AM  
\*FILES\*

LAYOUT: CLC 09/17/07  
DRAWN: CLC 09/17/07  
REVIEWED: JWM 09/17/07



FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	229
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

**SIGN DETAIL**  
150

SIGN NUMBER	name
WIDTH x HEIGHT	11'-0" x 5'-6"
BORDER WIDTH	1.75"
CORNER RADIUS	9"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green/Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	X	Y	WID	HT
ARMKD	109.6	48.3	12.6	8
ARMKD	9.7	18.7	8	12.6

Panel Styleguide\_exp\_01stanoos.sst  
Dimensions are in inches unless otherwise specified. Letter locations are panel edge to lower left corner.

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE			
S	p	r	i	n	g	f	i	e	l	d		EM96			
33.4	42.3	49.9	55.6	60.2	67.8	75.3	80.9	84.9	92.8	98.5	68.3				
K	n	i	g	h	t	'	a				EM96				
51.6	60.6	68.7	72.7	80.9	86.2	94.3	98				51.5				
R	e	c	r	e	a	t	i	o	n	D	r	.	EM96		
32.3	40.8	47.8	55.4	60.4	67.4	74.8	81.9	85.2	89	98.1	106.1	115.2	120.1	90.1	

SN-106

**SIGN DETAIL**

SIGN NUMBER	SN008
WIDTH x HEIGHT	11'-0" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	7.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
MI.1.2	40.6	26.0	24.0	24.0
ARLONG,180deg	12.8	25.0	15.7	10.0

DIMENSIONS IN INCHES COORDINATES ARE TO LOWER LEFT CORNERS

Y	LETTER POSITIONS (X)											HT
FONT	W	E	S	T								LEN
42.0	W	E	S	T								8.0
EM	72.6	82.6	88.3	94.3								6.0
10.0	J	a	c	k	s	o	n	v	i	i	e	8.0
EM	40.6	49.3	56.8	64.3	70.9	77.7	85.5	92.8	100.0	105.6	110.2	6.0
												26.1
												8.0
												6.0
												78.6

SN-107

**SIGN DETAIL**

SIGN NUMBER	SN009
WIDTH x HEIGHT	10'-6" x 10'-0"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG	89.4	25.0	15.8	10.0
ARLONG,90deg	12.7	82.2	10.0	15.7
MI.1.2	20.9	25.9	24.0	24.0
MI.1.2	43.9	86.1	24.0	24.0

DIMENSIONS IN INCHES COORDINATES ARE TO LOWER LEFT CORNERS

Y	LETTER POSITIONS (X)											HT
FONT	W	E	S	T								LEN
102.1	W	E	S	T								8.0
EM	77.9	88.0	93.6	99.7								6.0
70.1	J	a	c	k	s	o	n	v	i	i	e	8.0
EM	34.7	43.4	50.9	58.5	65.1	71.9	79.6	86.9	95.1	99.7	104.3	6.0
												24.6
42.1	E	A	S	T								8.0
EM	52.7	59.7	66.9	73.0								6.0
9.9	D	e	c	a	t	u	r					8.0
EM	25.0	33.5	40.4	47.3	54.6	61.1	69.3					6.0
												48.2

SN-108

**SIGN DETAIL**

SIGN NUMBER	SN011
WIDTH x HEIGHT	9'-0" x 5'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	7.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
MI.1.2	38.6	26.0	24.0	24.0
ARLONG,180deg	12.8	25.0	15.8	10.0

DIMENSIONS IN INCHES COORDINATES ARE TO LOWER LEFT CORNERS

Y	LETTER POSITIONS (X)											HT
FONT	E	A	S	T								LEN
42.0	E	A	S	T								8.0
EM	70.6	77.5	84.8	90.8								6.0
10.0	D	e	c	a	t	u	r					8.0
EM	42.8	51.3	58.2	65.1	72.4	78.9	87.0					6.0
												48.2

SN-109

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING PLAN GUIDANCE SIGN DETAILS - 2 SECTION (84-9) RS-6; (G)Z SANGAMON COUNTY, ILLINOIS SCALE: VERT. HORIZ. DATE: Mar-20-2008 10:12:27AM	DRAWN BY CHECKED BY
NAME	DATE		

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	230
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

**SIGN DETAIL**

SIGN NUMBER	SNO12
WIDTH x HEIGHT	10'-6" x 10'-0"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG,90deg	23.7	82.1	10.0	15.8
ARLONG	99.4	25.0	15.8	10.0
ML.1.2	10.8	26.0	24.0	24.0
ML.1.2	43.7	86.0	24.0	24.0

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	FONT	LETTER POSITIONS (X)	HT
102.0	EM	<b>E A S T</b>	8.0
77.7	EM	84.6 91.9 97.9	6.0
			24.6
70.0	EM	<b>D e c a t u r</b>	8.0
48.9	EM	57.4 64.3 71.2 78.5 85.0 93.2	6.0
			48.2
42.0	EM	<b>W E S T</b>	8.0
15.0	EM	44.8 54.9 60.5 66.5	6.0
			26.1
10.0	EM	<b>J a c k s o n v i l l e</b>	8.0
10.8	EM	19.5 27.0 34.6 41.2 48.0 55.7 63.0 71.3 75.8 80.4 84.4	6.0
			78.6

SN-110

**SIGN DETAIL**

SIGN NUMBER	SNO13
WIDTH x HEIGHT	19'-0" x 15'-0"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M162	96.0	97.3	36.0	36.0

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	FONT	LETTER POSITIONS (X)	HT
157.8	EM	<b>E X I T</b>	10.0
142.1	EM	142.1 151.5 162.2 166.2	31.5
155.3	EM	<b>9 3</b>	15.0
183.6	EM	183.6 198.6	27.0
69.3	EM	<b>V e t e r a n s P k w y .</b>	16.0
17.4	EM	34.7 48.1 59.8 74.9 85.2 101.4 116.0 142.1 159.4 172.7 191.6 206.6	193.2
41.3	EM	<b>C h a t h a m</b>	16.0
59.6	EM	77.6 92.6 107.2 120.3 135.3 151.5	12.0
			108.9
16.8	EM	<b>M I L E</b>	10.0
107.2	EM	119.0 123.5 132.9	33.1
14.3	EM	<b>1</b>	15.0
87.8	EM		4.4

SN-111

**SIGN DETAIL**

SIGN NUMBER	SNO14
WIDTH x HEIGHT	19'-0" x 16'-0"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M162	96.0	98.2	36.0	36.0

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	FONT	LETTER POSITIONS (X)	HT
158.7	EM	<b>E X I T</b>	10.0
142.1	EM	142.1 151.5 162.2 166.2	31.5
156.2	EM	<b>9 3</b>	15.0
183.6	EM	183.6 198.6	27.0
70.2	EM	<b>V e t e r a n s P k w y .</b>	16.0
17.4	EM	34.7 48.1 59.8 74.9 85.2 101.4 116.0 142.1 159.4 172.7 191.6 206.6	193.2
42.2	EM	<b>C h a t h a m</b>	16.0
59.6	EM	77.6 92.6 107.2 120.3 135.3 151.5	12.0
			108.9
16.7	EM	<b>M I L E</b>	10.0
114.8	EM	126.6 131.1 140.5	33.0
14.2	EM	<b>1 / 2</b>	15.0
80.2	EM	83.5 95.8	24.6

SN-112

**SIGN DETAIL**

SIGN NUMBER	SNO15
WIDTH x HEIGHT	19'-0" x 16'-0"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M162	96.0	110.4	36.0	36.0
ARLONG,45deg	99.3	13.1	29.4	29.4

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	FONT	LETTER POSITIONS (X)	HT
170.9	EM	<b>E X I T</b>	10.0
137.1	EM	137.1 146.5 157.2 161.2	31.5
168.4	EM	<b>9 3</b>	15.0
183.6	EM	183.6 198.6	27.0
82.4	EM	<b>V e t e r a n s P k w y .</b>	16.0
17.4	EM	34.7 48.1 59.8 74.9 85.1 101.4 116.0 142.1 159.4 172.7 191.6 206.6	193.2
54.4	EM	<b>C h a t h a m</b>	16.0
59.6	EM	77.6 92.6 107.2 120.3 135.3 151.5	12.0
			108.9

SN-113

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING PLAN GUIDANCE SIGN DETAILS - 3 SECTION (84-9) RS-6; (G)Z SANGAMON COUNTY, ILLINOIS
NAME	DATE	
		SCALE: VERT. HORIZ. DATE: Mar-20-2008 09:39:26AM
		DRAWN BY
		CHECKED BY

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	231
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

SIGN DETAIL

SIGN NUMBER	SNO10
WIDTH x HEIGHT	7'-0" x 2'-0"
BORDER WIDTH	0.8"
CORNER RADIUS	1.5"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG,180deg	6.3	9.0	9.5	6.0

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	LETTER POSITIONS (X)											HT				
FONT												LEN				
14.0	<b>K</b>	<b>N</b>	<b>I</b>	<b>G</b>	<b>H</b>	<b>T</b>	<b>S</b>									6.0
D	36.6	41.5	46.5	48.5	53.5	58.4	62.8									30.3
4.0	<b>A</b>	<b>C</b>	<b>T</b>	<b>I</b>	<b>O</b>	<b>N</b>	<b>P</b>	<b>A</b>	<b>R</b>	<b>K</b>						6.0
D	25.8	31.6	36.2	40.6	42.6	47.8	57.8	62.7	68.5	73.5						51.8

SN-114

SIGN DETAIL

SIGN NUMBER	SNO07
WIDTH x HEIGHT	7'-0" x 2'-0"
BORDER WIDTH	0.8"
CORNER RADIUS	1.5"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG	68.2	9.0	9.4	6.0

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	LETTER POSITIONS (X)											HT				
FONT												LEN				
14.0	<b>K</b>	<b>N</b>	<b>I</b>	<b>G</b>	<b>H</b>	<b>T</b>	<b>S</b>									6.0
D	17.1	22.1	27.1	29.0	34.1	38.9	43.4									30.3
4.0	<b>A</b>	<b>C</b>	<b>T</b>	<b>I</b>	<b>O</b>	<b>N</b>	<b>P</b>	<b>A</b>	<b>R</b>	<b>K</b>						6.0
D	6.3	12.2	16.7	21.2	23.1	28.3	38.4	43.2	49.0	54.1						51.8

SN-115

SIGN DETAIL

SIGN NUMBER	SNO04
WIDTH x HEIGHT	13'-0" x 7'-0"
BORDER WIDTH	2.0"
CORNER RADIUS	12.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
--------	---	---	-----	----

DIMENSIONS IN INCHES      COORDINATES ARE TO LOWER LEFT CORNERS

Y	LETTER POSITIONS (X)											HT				
FONT												LEN				
59.5	<b>K</b>	<b>n</b>	<b>i</b>	<b>g</b>	<b>h</b>	<b>t</b>	<b>s</b>									13.3
EM	38.8	53.6	67.1	73.7	87.2	99.4	108.8									10.0
36.2	<b>A</b>	<b>c</b>	<b>t</b>	<b>i</b>	<b>o</b>	<b>n</b>	<b>P</b>	<b>a</b>	<b>r</b>	<b>k</b>						13.3
EM	15.6	31.9	43.1	54.0	60.6	73.4	95.1	108.9	122.4	132.1						10.0
13.7	<b>E</b>	<b>X</b>	<b>I</b>	<b>T</b>												10.0
EM	43.7	53.1	63.8	67.9												31.5
11.2	<b>9</b>	<b>6</b>														15.0
EM	85.2	100.3														27.0

SN-116

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
GUIDANCE SIGN DETAILS - 4  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT.      DRAWN BY  
          HORIZ.      CHECKED BY  
DATE: Mar-20-2008 09:39:30AM



Mar-20-2008 09:39:30AM  
\$FILES  
LAYOUT: CLC 09/17/07  
DRAWN: CLC 09/17/07  
REVIEWED: JMM 09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	232
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

**SIGN DETAIL**

SIGN NUMBER	name
WIDTH x HIGHT.	9'-6" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: Green
	COLOR: White /White

SYMBOL	X	Y	WID	HT
ARMED	9	13.3	6	9.5
ARMED	88.6	2.7	9.5	6

Panel Style: Mast Arm, sd  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE				
J	U	N	C	T	I	O	N		C	I	R	C	L	E			80.5	E6
24.5	30.5	36.5	42.5	48.5	54.4	60.4	66.3	72.3	78.3	84.3	90.3	96.3	102.3	108.3				
N	O	R	T	H		S	T	R	E	E	T						88.6	E6
9	15.4	21.9	27.9	33.5	39.5	44.3	50.3	56	62.3	68	73.2							

SN-120

**SIGN DETAIL**

SIGN NUMBER	name
WIDTH x HIGHT.	9'-6" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: Green
	COLOR: White /White

SYMBOL	X	Y	WID	HT
ARMED	9	13.3	6	9.5
ARMED	96.6	2.7	9.5	6

Panel Style: Mast Arm, sd  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE				
N	O	R	T	H		S	T	R	E	E	T						88.6	E6
24.5	30.5	37.3	43.3	49	55.5	61.5	67.4	73.4	79.4	85.4	91.4							
J	U	N	C	T	I	O	N		C	I	R	C	L	E			80.5	E6
9	15.1	21.4	27.7	33.3	39	44.5	50.3	56.5	62.4	67.4	73.4	79.5	85.1					

SN-121

**SIGN DETAIL**

SIGN NUMBER	name
WIDTH x HIGHT.	8'-0" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: Green
	COLOR: White /White

SYMBOL	X	Y	WID	HT

Panel Style: Mast Arm, sd  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE				
M	A	C	A	R	T	H	U	R									74.6	E6
10.7	19.7	29.4	38.8	48.5	54.5	62.1	70.5	78.9										
B	O	U	L	E	Y	A	R	D									36	E4
30	34	38.4	42.6	48.4	49.6	53.7	58.5	62.8										

SN-122

**SIGN DETAIL**

SIGN NUMBER	name
WIDTH x HIGHT.	9'-6" x 1'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
LEGEND/BORDER	TYPE: Reflective
	COLOR: Green
	COLOR: White /White

SYMBOL	X	Y	WID	HT

Panel Style: Mast Arm, sd  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE				
I	N	T	E	R	S	T	A	T	E	7	2						93.4	E6
10.3	12.7	21.8	29.3	36.8	44.9	52.9	59.3	67.9	76.4	81.3	89.3	97.3						

SN-123



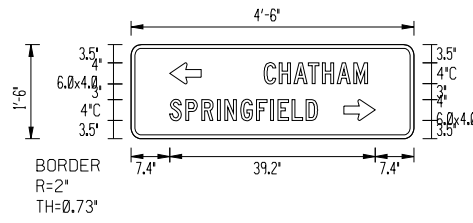
09-17-07  
09-17-07  
09-17-07  
09-17-07  
09-17-07  
09-17-07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
GUIDANCE SIGN DETAILS - 5  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT.  
HORIZ.  
DATE: Mar-20-2008 09:39:34AM  
DRAWN BY  
CHECKED BY

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	233
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

SIGN DETAIL  
1:80



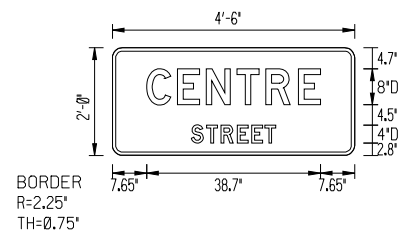
SIGN NUMBER	Signdet019			
WIDTH x HIGHT	4'-6" x 1'-6"			
BORDER WIDTH	0.75"			
CORNER RADIUS	3"			
MOUNTING	Ground			
BACKGROUND	TYPE:	Reflective		
	COLOR:	Green		
LEGEND/BORDER	TYPE:	Reflective		
	COLOR:	White/Pure White		
SYMBOL				
	X	Y	WID	HT
ARUP	7.4	10.5	4	8
ARUP	40.6	8.6	4	8

Panel Style: AWARD Sign.mat  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
C	H	A	T	H	A	M						19.7	C4
26.4	28.3	31.1	33.8	36.5	39.4	42.5							
S	P	R	I	N	G	F	I	E	L	D		28.3	C4
7.4	10.4	13.5	16.5	17.9	20.9	24	26.6	28	30.7	33.4			

SN-126

SIGN DETAIL



SIGN NUMBER	name			
WIDTH x HIGHT	4'-6" x 2'-0"			
BORDER WIDTH	0.75"			
CORNER RADIUS	3.25"			
MOUNTING	Overhead			
BACKGROUND	TYPE:	Reflective		
	COLOR:	Green		
LEGEND/BORDER	TYPE:	Reflective		
	COLOR:	White/White		
SYMBOL				
	X	Y	WID	HT

Panel Style: Mat Arm.mat  
Dimensions are in inches, tenths  
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
C	E	N	T	R	E							38.7	D8
7.6	14.6	20.9	27.8	34.2	41.6								
S	T	R	E	E	T							18.9	D4
17.6	21	24.2	27.9	31	34								

SN-125

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
GUIDANCE SIGN DETAILS - 6  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS  
SCALE: VERT.  
          HORIZ.  
DATE: Mar-20-2008 09:39:39AM  
DRAWN BY  
CHECKED BY



FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	234
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

**SIGN DETAIL**  
1:80

SIGN NUMBER	Signdet018
WIDTH x HGHT.	5'-0" x 12'-0"
BORDER WIDTH	0.73"
CORNER RADIUS	2"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Brown
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	48.4	12.5	7.9	5

Panel Style: Award Sign  
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
I	N	T	R	U	R	B	A	N		33.7	C5
6.7	8.5	12	15.4	18.7	22.5	26.3	30.1	33.7	37.7		
T	R	A	I	L						15.3	C5
18	19.3	22.9	26.9	28.6							
P	A	R	K	I	N	G				32.3	C5
12	15.5	19.5	23.3	26.9	28.6	32.4					

SN-127

**SIGN DETAIL**  
1:80

SIGN NUMBER	Signdet017
WIDTH x HGHT.	5'-0" x 12'-0"
BORDER WIDTH	0.73"
CORNER RADIUS	2"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	48.8	7	8.3	4

Panel Style: Award Sign  
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
H	A	Z	E	L		D	E	L	L	38.4	C4	
5.4	8.3	11.5	14.3	17	19	23	26	28.7	31.4			
P	A	R	K	I	N	G		L	O	T	30.3	C4
9.6	12.4	15.6	18.6	21.5	22.9	25.9	28.1	32.1	34.8			

SN-129

**SIGN DETAIL**  
1:80

SIGN NUMBER	Signdet018a
WIDTH x HGHT.	5'-0" x 12'-0"
BORDER WIDTH	0.73"
CORNER RADIUS	2"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Brown
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	6.7	12.5	5	7.9

Panel Style: Award Sign  
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
I	N	T	R	U	R	B	A	N		32.7	C5
19.8	21.4	24.9	28.5	31.6	35.4	39.2	43	46.6	50.5		
T	R	A	I	L						15.3	C5
28.9	32.2	35.8	39.6	41.5							
P	A	R	K	I	N	G				22.3	C5
24.9	28.4	32.4	36.2	39.8	41.5	45.3					

SN-128

**SIGN DETAIL**  
1:80

SIGN NUMBER	Signdet017a
WIDTH x HGHT.	5'-0" x 12'-0"
BORDER WIDTH	0.73"
CORNER RADIUS	2"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
ARMED	51	7	4	8.3

Panel Style: Award Sign  
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE	
H	A	Z	E	L		D	E	L	L	38.4	C4	
18.5	19.3	22.5	25.3	28	30	34	37.1	39.7	42.4			
P	A	R	K	I	N	G		L	O	T	30.3	C4
20.6	22.4	26.6	29.6	32.5	33.9	36.9	39.1	43.1	45.8			

SN-130

Copyright Hanson Professional Services Inc. SMS\_YEARS  
**HANSON**

Mar-20-2008 09:39:43AM  
 \$FILES\$  
 LAYOUT CJC 09/17/07  
 DRAWN CJC 09/17/07  
 REVIEWED JMM 09/17/07

REVISIONS	
NAME	DATE

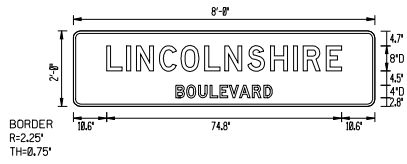
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SIGNING PLAN  
 GUIDANCE SIGN DETAILS - 7  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT.  
 HORIZ.  
 DATE: Mar-20-2008 09:39:43AM

DRAWN BY  
 CHECKED BY

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	235
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

**SIGN DETAIL**  
1:60



SIGN NUMBER	name
WIDTH x HGT.	8'-0" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WID	HT

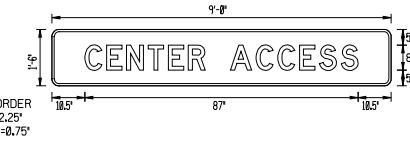
Panel Style: Mast Arm.mxd  
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
L	I	N	C	O	L	N	S	H	I	R	E	74.8	D8
10.6	17	20.1	27.4	34.8	41.8	48.2	55.5	62.8	70.1	73.2	80.5		
B	O	U	L	E	V	A	R	D	80.8	D4			
22.7	26.1	29.9	43.5	48.7	49.8	52.9	57	60.6					

SN-131

**SIGN DETAIL**  
1:60



SIGN NUMBER	name
WIDTH x HGT.	9'-0" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WID	HT

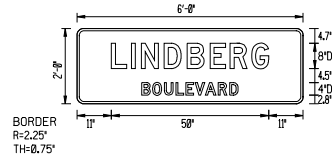
Panel Style: Mast Arm.mxd  
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE	
C	E	N	T	E	R	A	C	C	E	S	S	87	D8	
10.5	17.4	22.8	20.7	27.1	43.4	48.8	55.8	65	71.9	78.8	85.2	92.1		
B	O	U	L	E	V	A	R	D	80.8	D4				
22.7	26.1	29.9	43.5	48.7	49.8	52.9	57	60.6						

SN-132

**SIGN DETAIL**  
1:60



SIGN NUMBER	name
WIDTH x HGT.	6'-0" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WID	HT

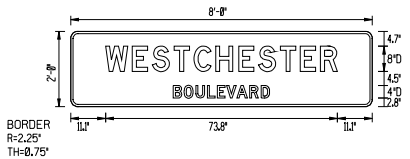
Panel Style: Mast Arm.mxd  
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
L	I	N	D	B	E	R	G	50	D8				
11	17.4	20.5	27.9	35.1	42.4	48.8	55.6						
B	O	U	L	E	V	A	R	D	80.8	D4			
20.7	24.1	27.9	31.5	34.7	37.8	40.9	45	48.6					

SN-133

**SIGN DETAIL**  
1:60



SIGN NUMBER	name
WIDTH x HGT.	8'-0" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	X	Y	WID	HT

Panel Style: Mast Arm.mxd  
Dimensions are in inches/teeth

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
W	E	S	T	C	H	E	S	T	E	R	73.8	D8	
11.1	19.8	28	32.9	39.8	48.2	55.5	59.8	68.7	73.1	79.5			
B	O	U	L	E	V	A	R	D	80.8	D4			
22.7	26.1	29.9	43.5	48.7	49.8	52.9	57	60.6					

SN-134

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING PLAN  
GUIDANCE SIGN DETAILS - 8  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT.      DRAWN BY  
                  HORIZ.      CHECKED BY  
DATE: Mar-20-2008 09:39:49AM



LAYOUT	CLC	09/17/07
DRAWN	CLC	09/17/07
REVIEWED	JMM	09/17/07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	236
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

\* (84-9) RS-6; (G)Z

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

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.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

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

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

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

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: All-threaded rod conforming to ASTM A307, 3/4"  $\phi$  x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- Bracket spacing  $g \leq 6'-0"$ , max. Spacing shall be uniform if possible but may vary  $\pm 6"$  to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

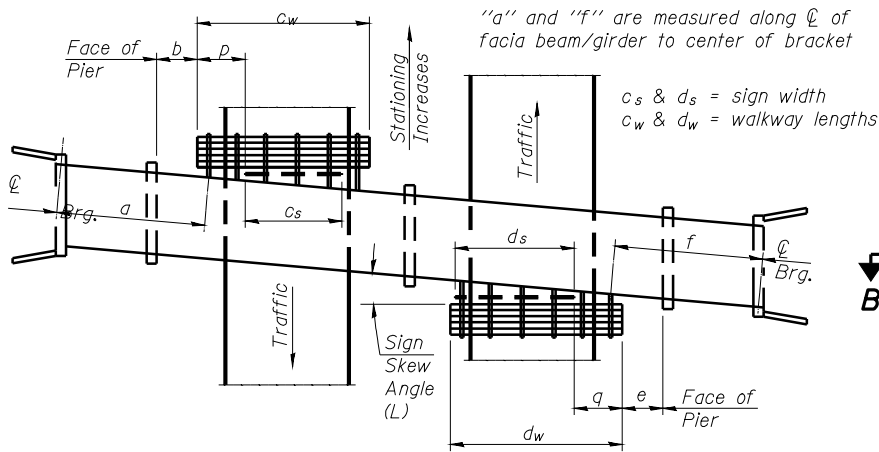
NUMBER	REVISION	DATE

TOTAL BILL OF MATERIAL

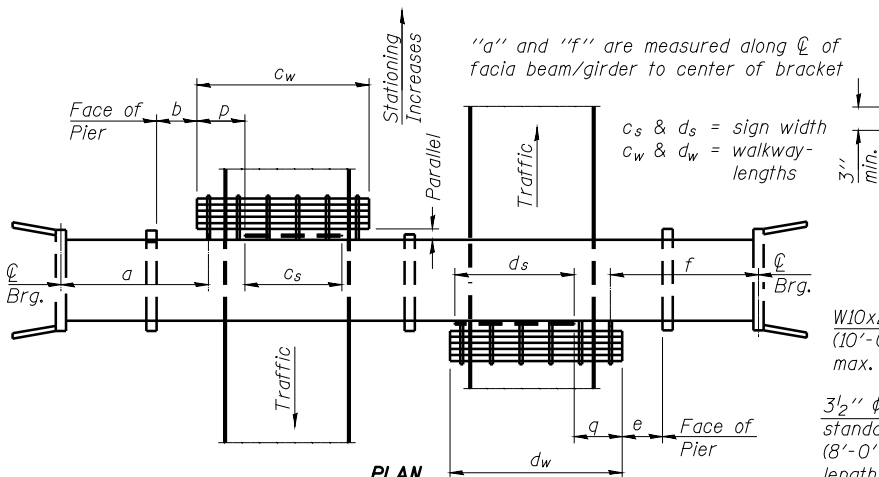
③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot
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BRIDGE MOUNT SIGN STRUCTURES  
GENERAL PLAN AND ELEVATION

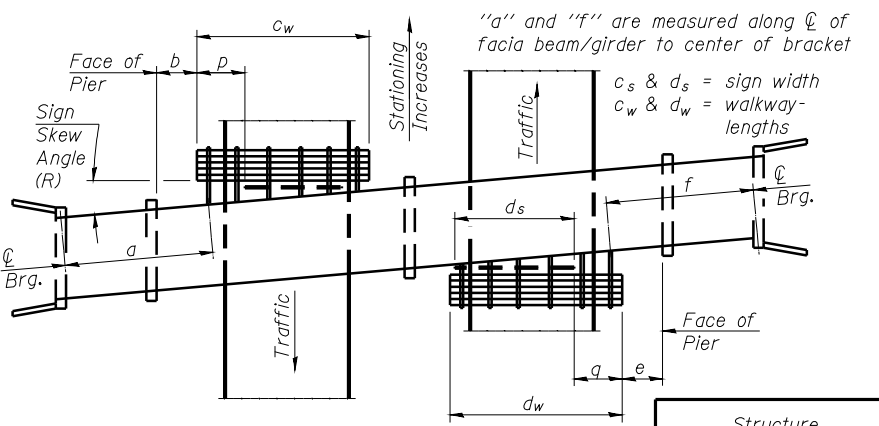
SIGNING DETAIL  
6B084I072R095.8  
6B084I072L096.8  
FAI-72, MACARTHUR BLVD



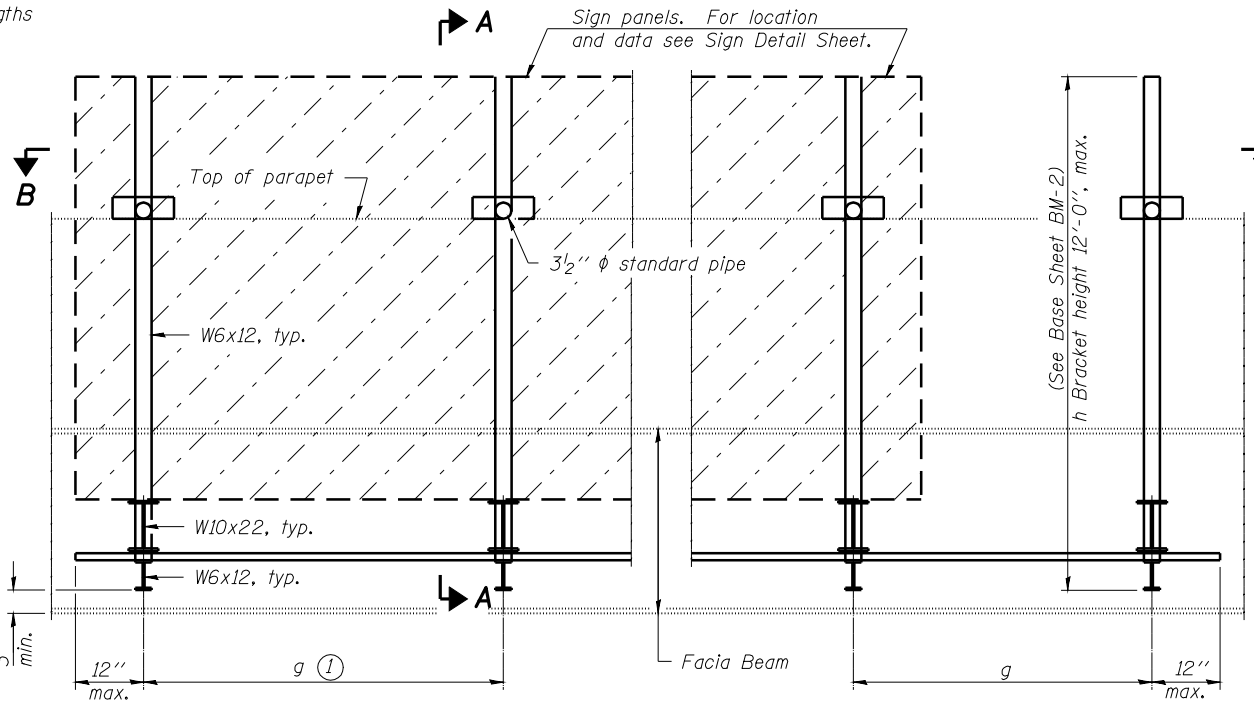
PLAN  
(Left Sign Skew > 15°)  
WALKWAY AND HANDRAIL SKETCH  
(Road plan beneath structure varies.)



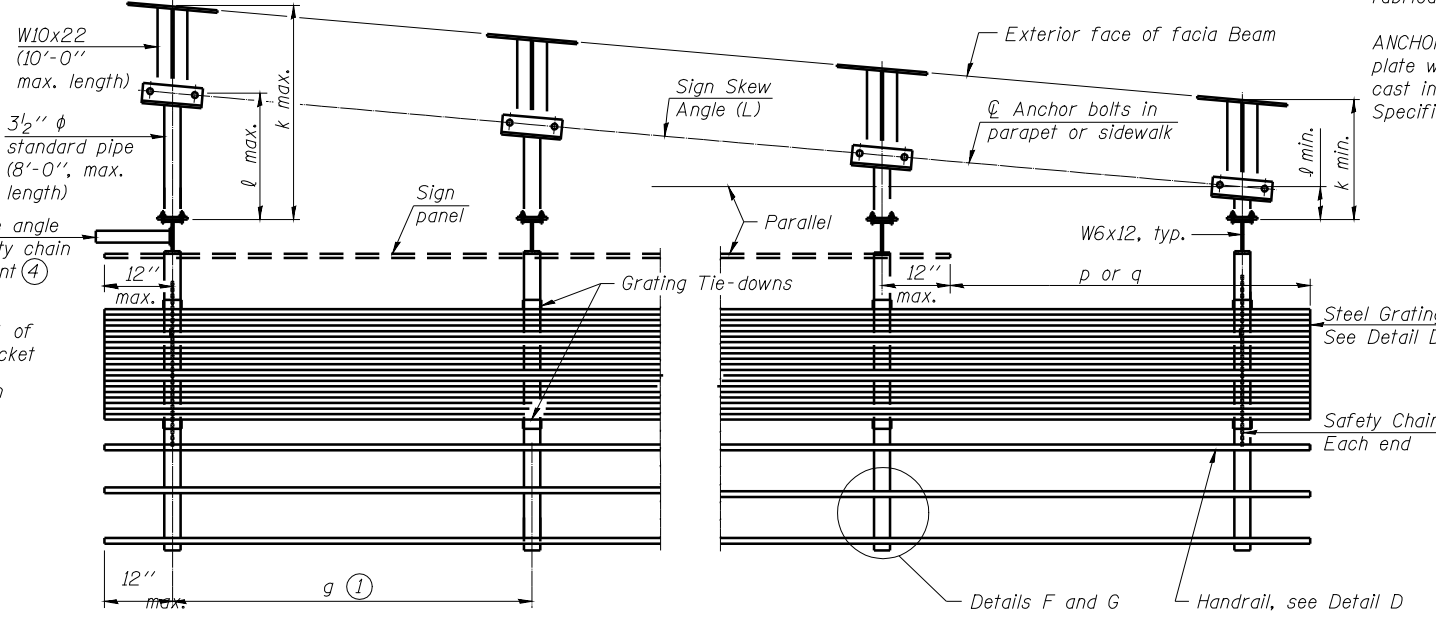
PLAN  
(For Sign Skew  $\leq 15^\circ$ , all brackets constant)  
WALKWAY AND HANDRAIL SKETCH  
(Road plan beneath structure varies.)



PLAN  
(Right Sign Skew > 15°)  
WALKWAY AND HANDRAIL SKETCH  
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION  
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B  
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c <sub>s</sub>	c <sub>w</sub>	d <sub>s</sub>	d <sub>w</sub>	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c <sub>w</sub> + d <sub>w</sub> )
6B084I072R095.8	0°	596+33	084-0513	I-72	47'-5"	-	26'-0"	30'-6"	-	-	-	-	5'-0"	7	4'-6"	-	30'-6"
6B084I072L096.8	L0°-55'	647+92.6	084-0104	I-72	49'-2"	6'-9"	20'-6"	26'-3"	-	-	-	-	5'-0"	6	5'-9"	-	26'-3"

Dimensions a, b, e, f & g may vary as approved by the Engineer, see (1).  
When c<sub>w</sub> < c<sub>s</sub> and/or d<sub>w</sub> < d<sub>s</sub>, use alternate brackets without walkway supports where applicable, see (3).

DESIGNED -	20
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

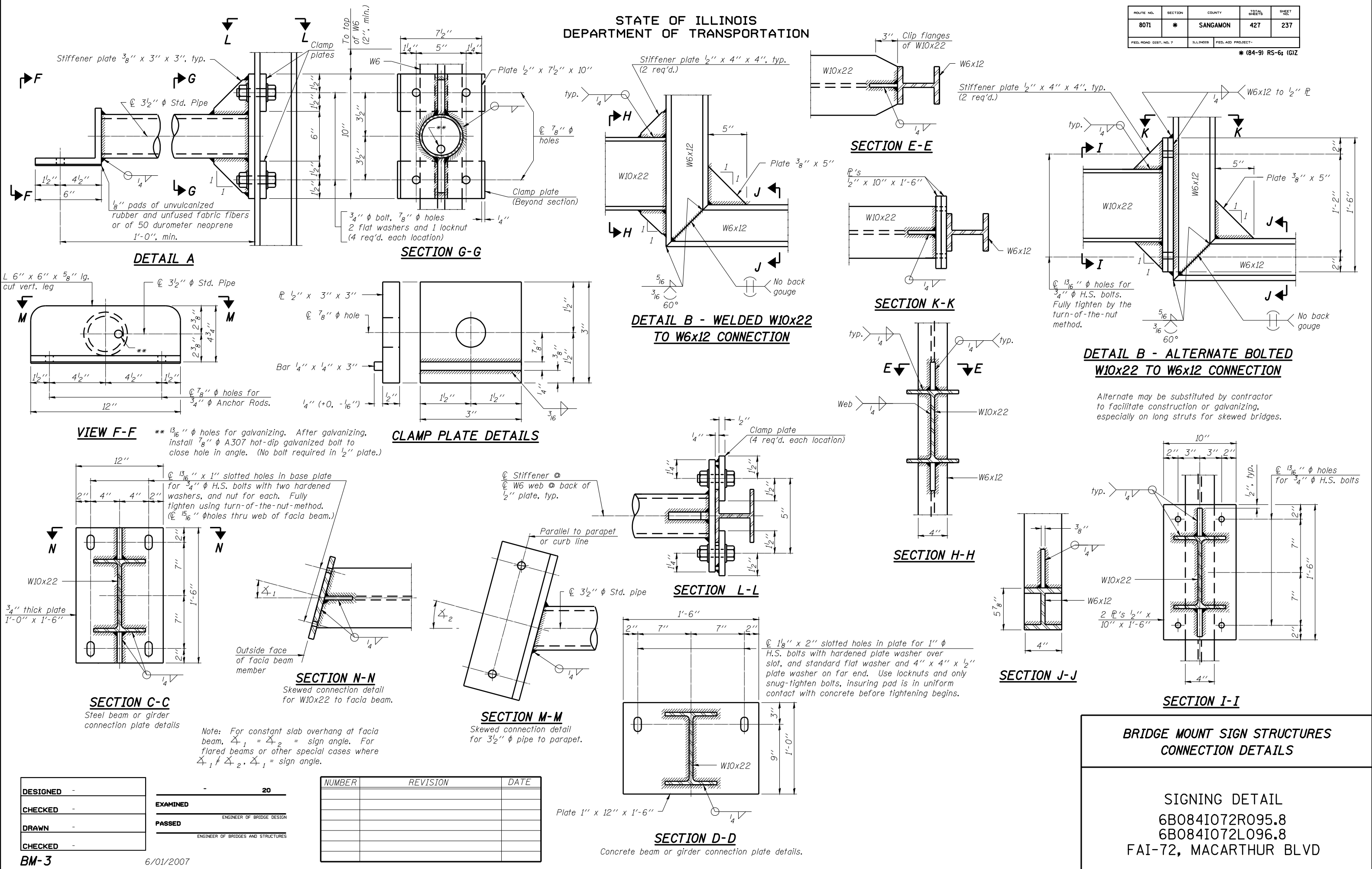
BM-1 6/01/2007



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	427	237
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\*(84-9) RS-6; (G)Z

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**VIEW F-F** \*\* 13/16" diameter holes for galvanizing. After galvanizing, install 7/8" diameter A307 hot-dip galvanized bolt to close hole in angle. (No bolt required in 1/2" plate.)

13/16" x 1" slotted holes in base plate for 3/4" diameter H.S. bolts with two hardened washers, and nut for each. Fully tighten using turn-of-the-nut method. (15/16" diameter holes thru web of fascia beam.)

3/4" thick plate 1'-0" x 1'-6"

Note: For constant slab overhang at fascia beam,  $\alpha_1 = \alpha_2 =$  sign angle. For flared beams or other special cases where  $\alpha_1 \neq \alpha_2$ ,  $\alpha_1 =$  sign angle.

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	-	20
PASSED	-	ENGINEER OF BRIDGE DESIGN
	-	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

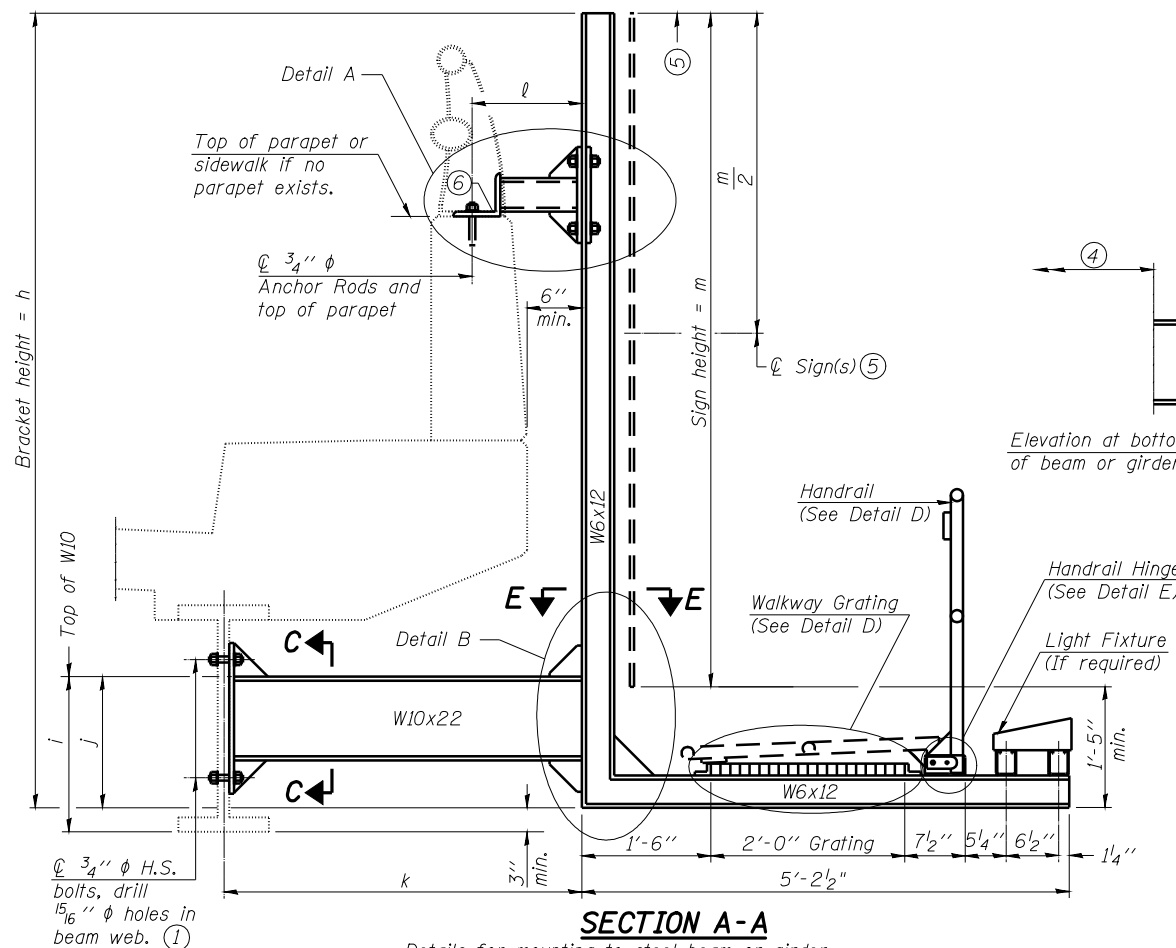
**BRIDGE MOUNT SIGN STRUCTURES CONNECTION DETAILS**

SIGNING DETAIL  
6B084I072R095.8  
6B084I072L096.8  
FAI-72, MACARTHUR BLVD

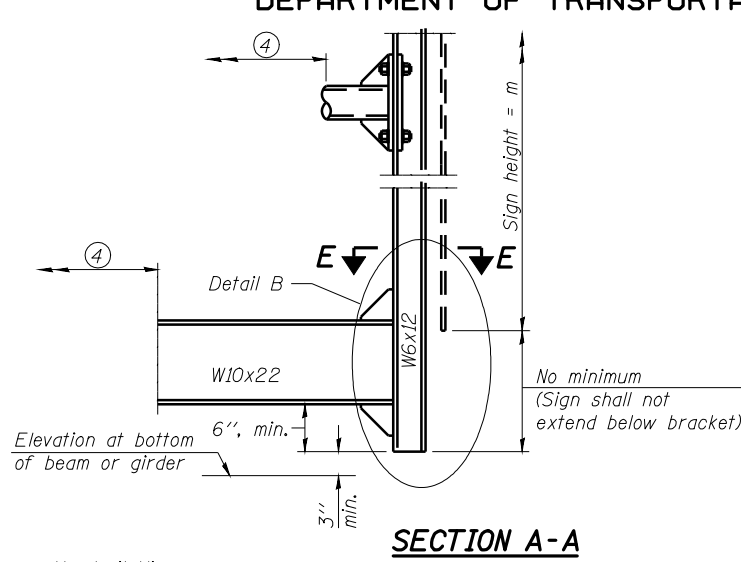
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	238
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

\*(84-9) RS-6; (G)Z

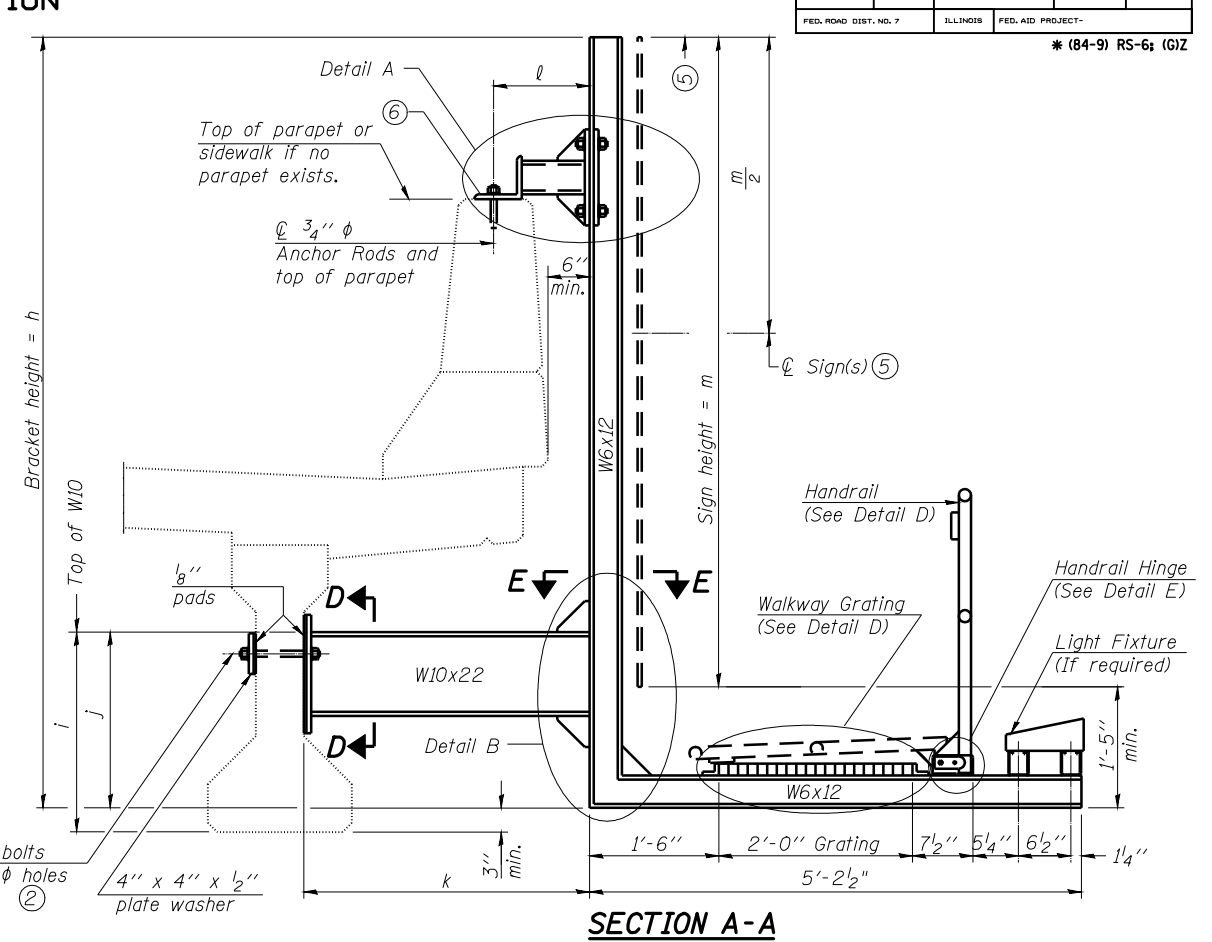
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**SECTION A-A**  
Details for mounting to steel beam or girder  
& Details for mounting with existing parapet mounted rail



**SECTION A-A**  
Alternate with no lights or walkways  
④ For attachment details of 3/2" pipe and W10x22, see other sections as applicable.



**SECTION A-A**  
Details for mounting to PPC I Beam or Bulb "T"  
& Details for mounting to parapet w/o rail

Notes:  
Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.  
Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.  
All holes in bridge beams or girders should be located in the middle half of the member's depth. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.  
The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

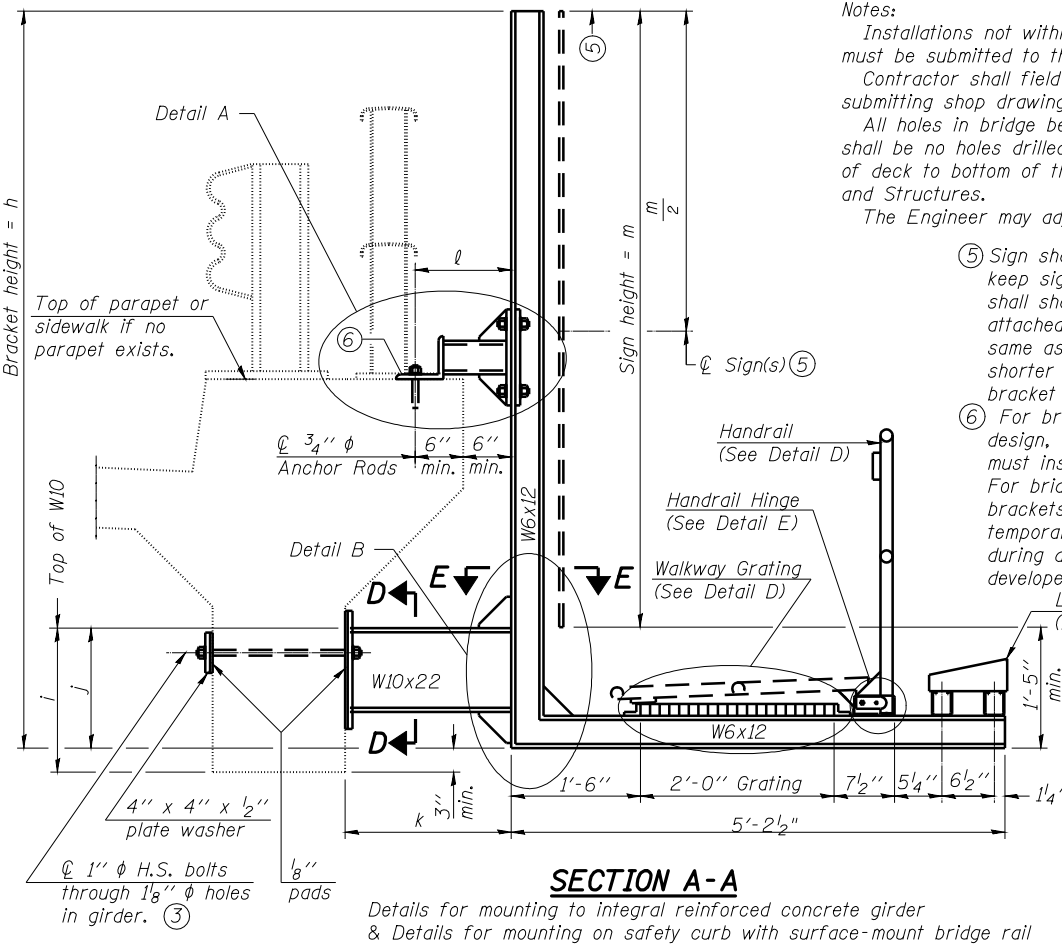
⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)

⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation.  
For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
6B0841072R095.8	596+33	14'-5"	3'-1 1/4"	2'-10 1/4"	3'-7 1/2"	1'-6"	13'-0"
6B0841072L096.8	647+93	9'-11"	1'-9 1/2"	1'-6 1/2"	3'-0"	1'-7"	8'-6"

For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.  
For Details D & E, see Base Sheet BM-4.

- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.



**SECTION A-A**  
Details for mounting to integral reinforced concrete girder  
& Details for mounting on safety curb with surface-mount bridge rail

DESIGNED -	20
CHECKED -	ENGINEER OF BRIDGE DESIGN
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

BM-2

6/01/2007

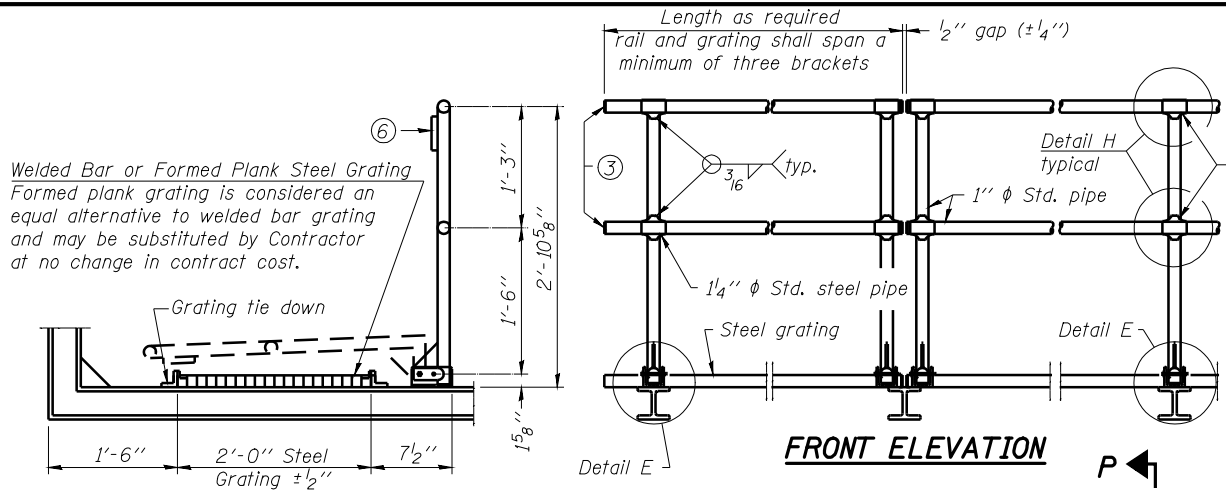
NUMBER	REVISION	DATE

**BRIDGE MOUNT SIGN STRUCTURES  
WALKWAY AND CONNECTION DETAILS**

SIGNING DETAIL  
6B0841072R095.8  
6B0841072L096.8  
FAI-72, MACARTHUR BLVD

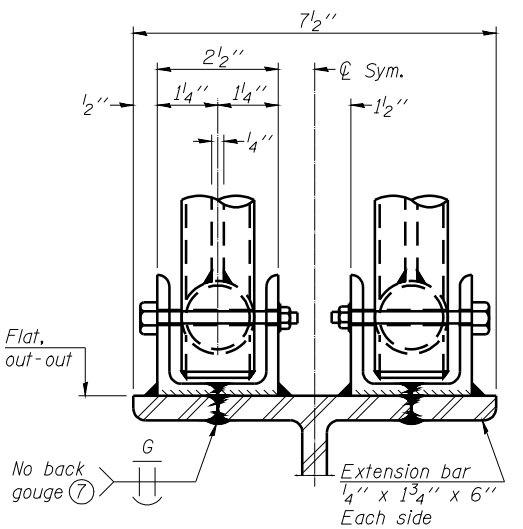
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	239
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

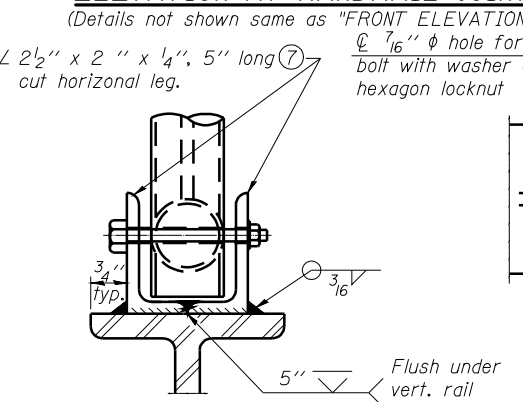


**SIDE ELEVATION**

**DETAIL D HANDRAIL**



**ELEVATION AT HANDRAIL JOINT**



**FRONT ELEVATION**

**PLAN AT SINGLE HANDRAIL HINGE**

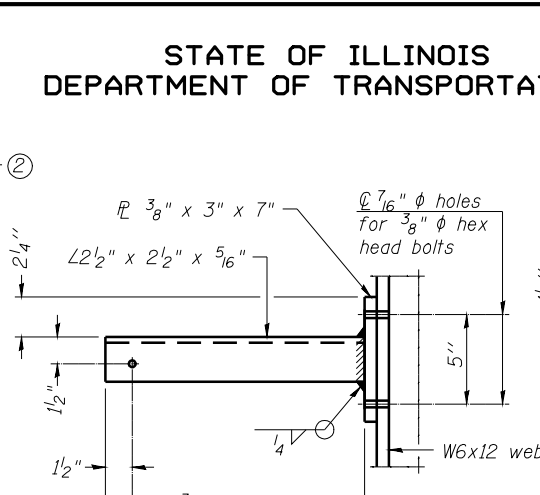
NUMBER	REVISION	DATE

DESIGNED	-	20
CHECKED	-	
DRAWN	-	
CHECKED	-	

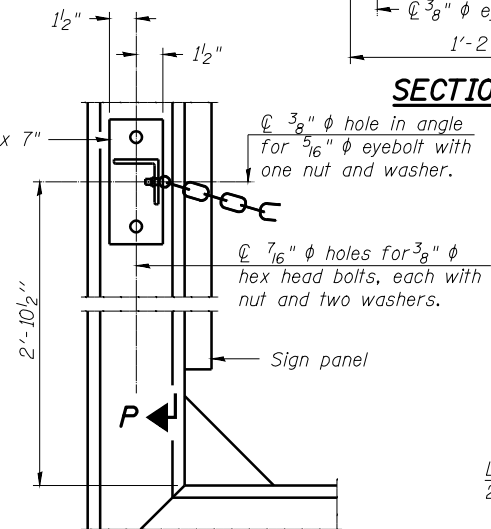
EXAMINED	-	
PASSED	-	

6/01/2007

BM-4

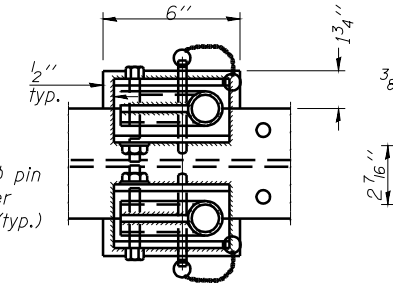


**SECTION P-P**



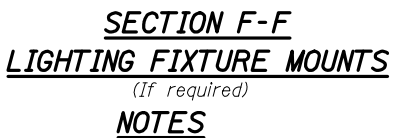
**SAFETY CHAIN ATTACHMENT**

(With Sign Present)  
Items not shown same as "SIDE ELEVATION" and "SAFETY CHAIN"



**PLAN AT HANDRAIL JOINT**

(For Details, see Elevations.)



**SECTION F-F LIGHTING FIXTURE MOUNTS**

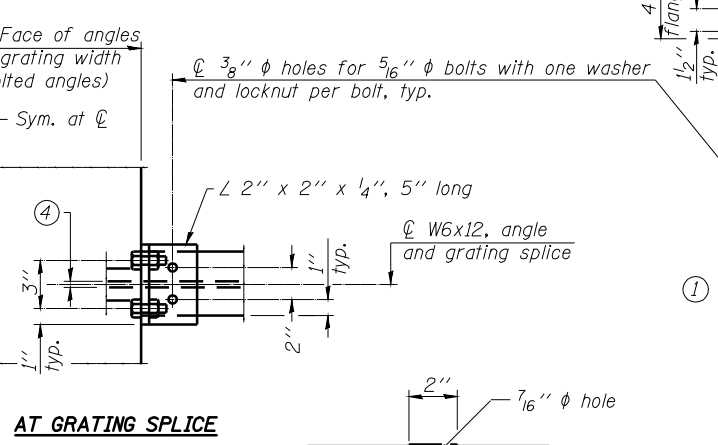
(If required)

**NOTES**

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.
- Horizontal rail member shall be continuous thru 1 1/4" diameter pipe. Provide 7/16" diameter hole in 1 1/4" diameter pipe for 3/8" diameter bolt. Field drill 7/16" diameter hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" diameter holes on top rail at ends only.)
- Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends.)
- 3/8" (+/- 1/4") gap between grating panels at splice.
- Chain to be type 304L stainless steel suitable for prolonged exterior exposure. Approximately 3'-6" long chain per location. Maximum sag with handrail erected = 4".
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Extrusions may be used in lieu of details shown, with approval by Engineer.
- Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

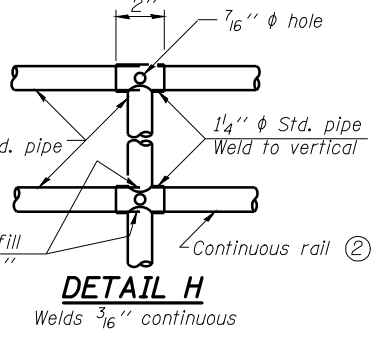
**ALTERNATE FORMED PLANK GRATING DETAILS**

Plank Grating: nominal depth = 2 1/2" (+/- 1/2"); perforated or expanded steel sheet with a non-skid surface (non-serrated) concentrated load capacity = 500 lbs. with 6'-0" clear span.



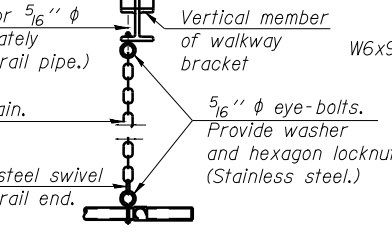
**GRATING CONTINUOUS AT GRATING SPLICE**

**VIEW W-W**



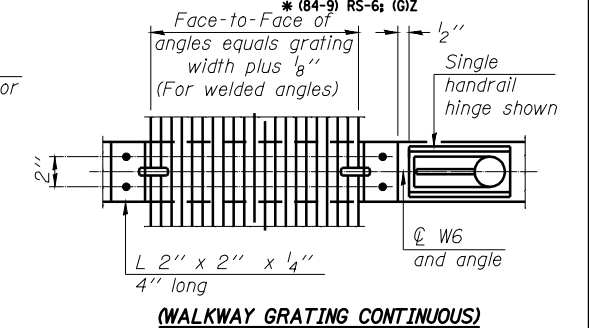
**DETAIL H**

Welds 3/8" continuous

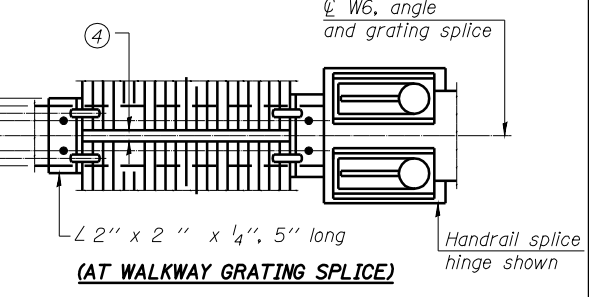


**SAFETY CHAIN**

One (1) required for each end of each walkway.

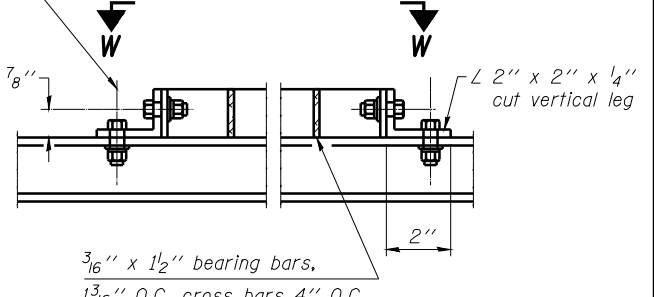


**WALKWAY GRATING CONTINUOUS**

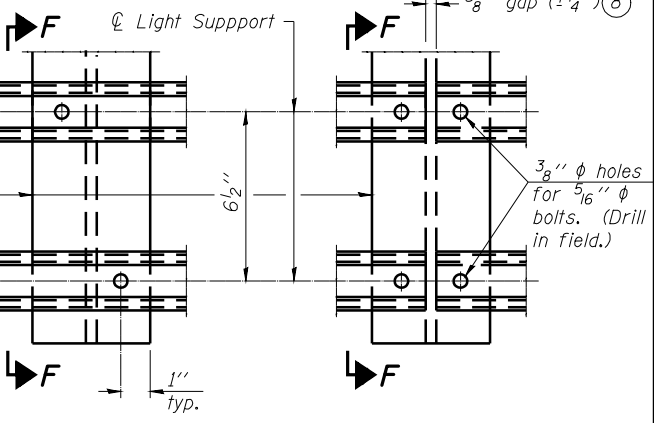


**PLAN**

**(AT WALKWAY GRATING SPLICE)**



**WELDED BAR GRATING DETAILS**



**DETAIL F**

**DETAIL G**

**BRIDGE MOUNT SIGN STRUCTURES WALKWAY DETAILS**

SIGNING DETAIL  
6B084I072R095.8  
6B084I072L096.8  
FAI-72, MACARTHUR BLVD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	240
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\*(84-9) RS-6; (G)Z

**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<sub>c</sub> = 3,500 p.s.i.  
fy = 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.

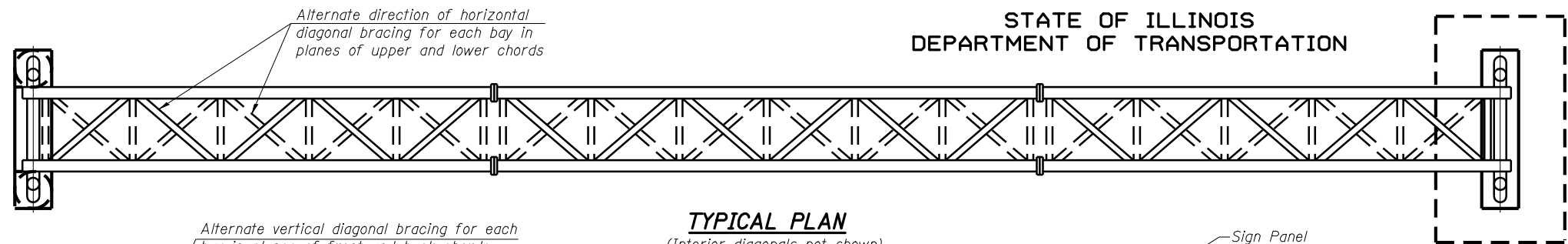
**ANCHOR RODS:** Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

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

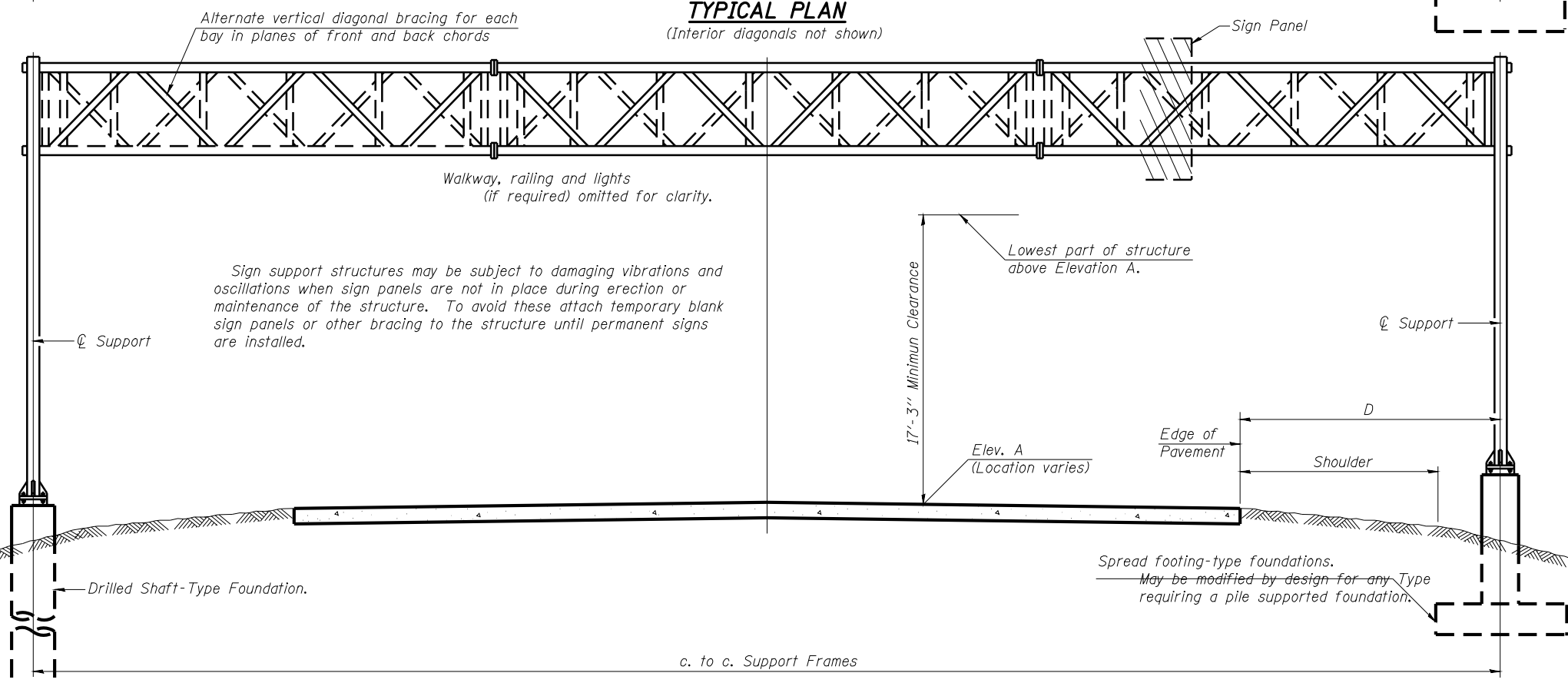
**REINFORCEMENT BARS:** Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

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

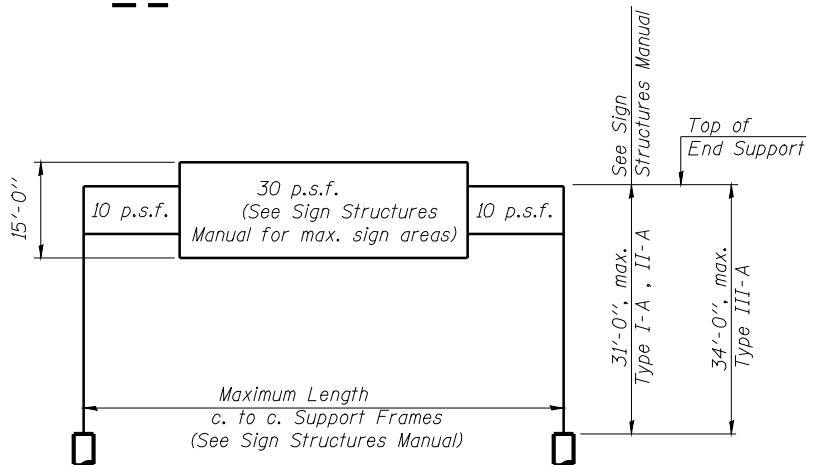
\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



**TYPICAL PLAN**  
(Interior diagonals not shown)



**TYPICAL ELEVATION**  
(Looking at Face of Signs)\*\*



**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.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
6S084I072L097.6	686+75	1-A	80'-0"	100.00	16'-7"	10'-0"	354.25

\*\*Looking upstation for structures with signs both sides.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	80'-0"
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	44'-9"
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	9.7

NUMBER	REVISION	DATE

**OVERHEAD SIGN STRUCTURES  
GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL SUPPORTS**

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

DESIGNED -		20
CHECKED -	EXAMINED	ENGINEER OF BRIDGE DESIGN
DRAWN -	PASSED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED -		

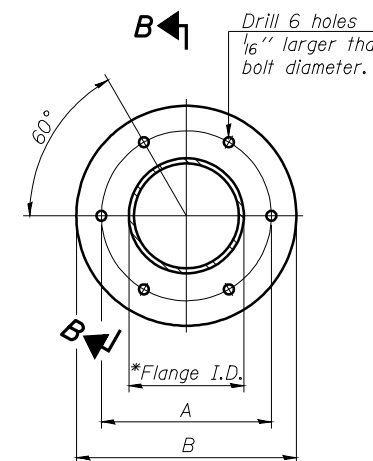
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	241
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

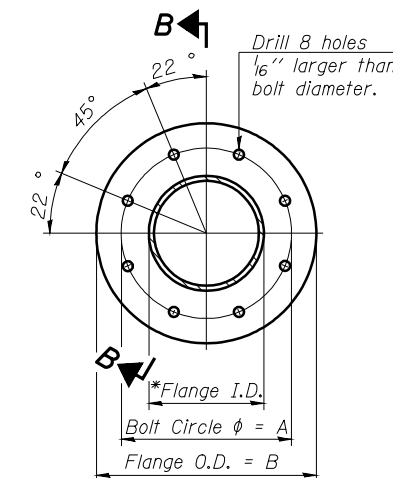
\* (84-9) RS-6; (G)Z

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 <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall	Bolts			Weld Sizes		A	B		
														No./Splice	Dia.		W	W <sub>1</sub>				
6S084I072L097.6	686+75	1-A	5	25'-10"	4'-9 1/2"	1	6	30'-0"	4'-9 1/2"	5"	5/16"	2 1/2"	5/16"	2 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"		

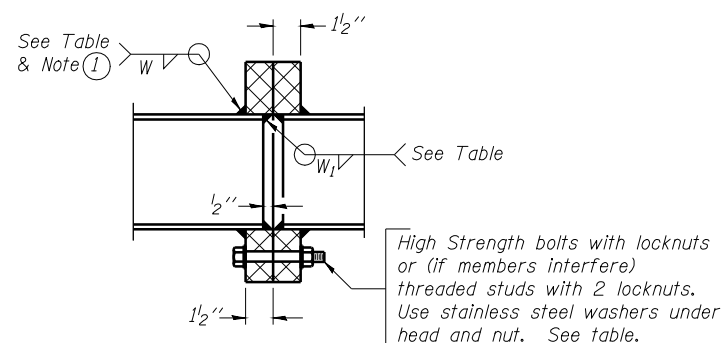


TRUSS TYPES I-A, II-A, & III-A



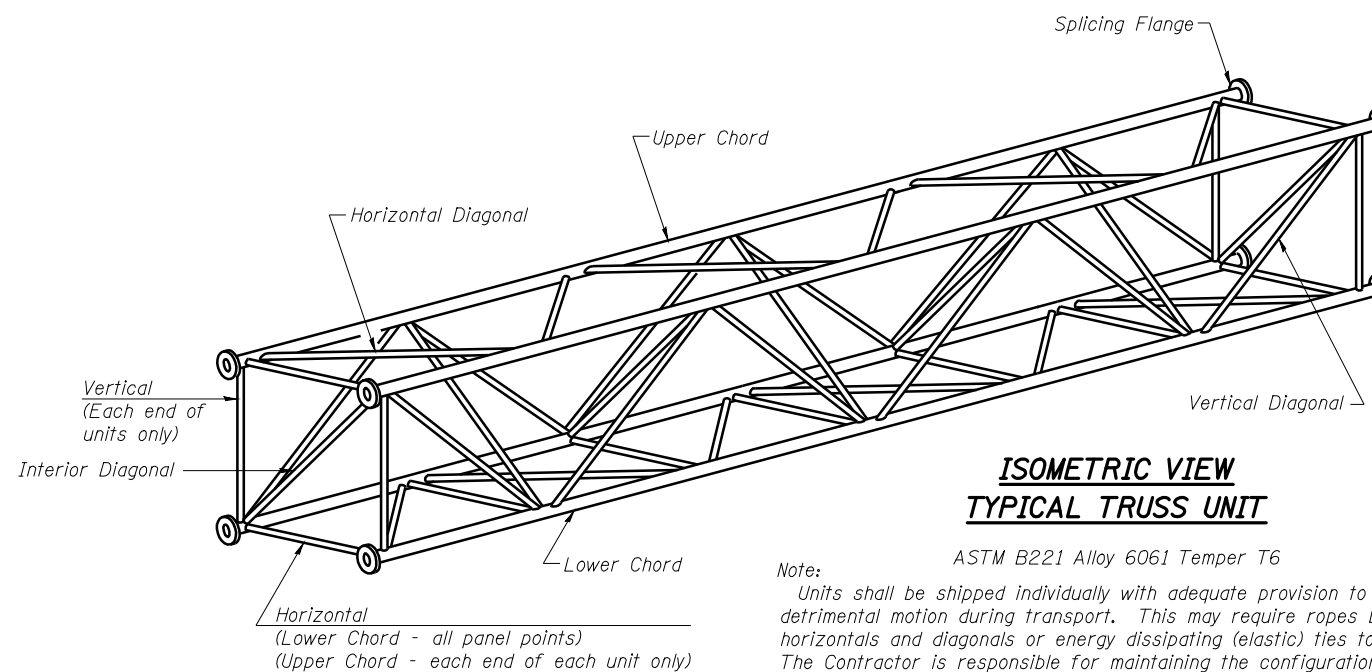
TRUSS TYPES II-A & III-A  
SPlicing FLANGES

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



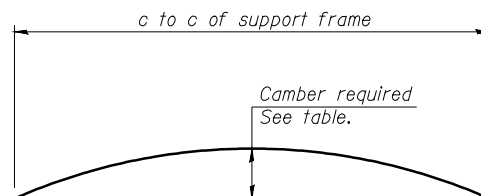
SECTION B-B

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

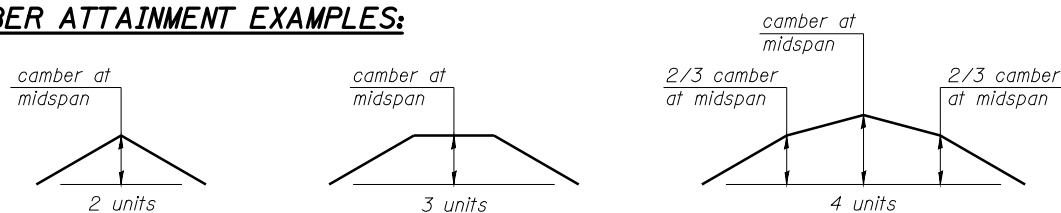
Note: ASTM B221 Alloy 6061 Temper T6  
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



CAMBER DIAGRAM

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

CAMBER ATTAINMENT EXAMPLES:



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

NUMBER	REVISION	DATE

DESIGNED -	20
CHECKED -	ENGINEER OF BRIDGE DESIGN
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

OS4-A-2

6/01/2007

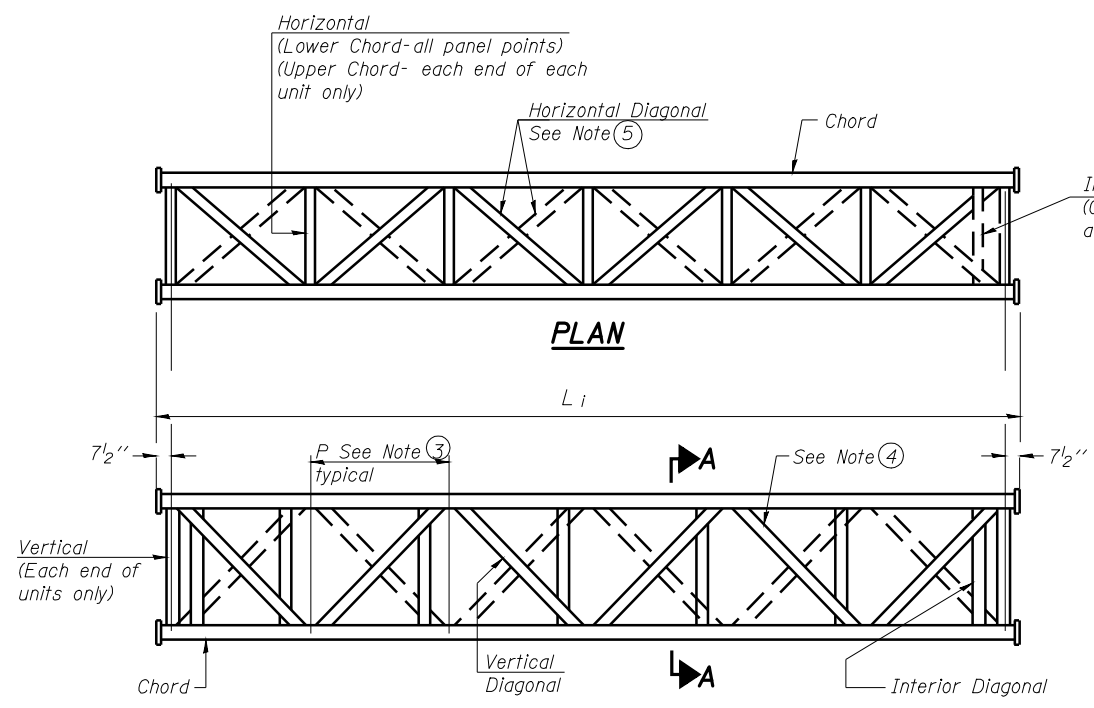
OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A AND III-A

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

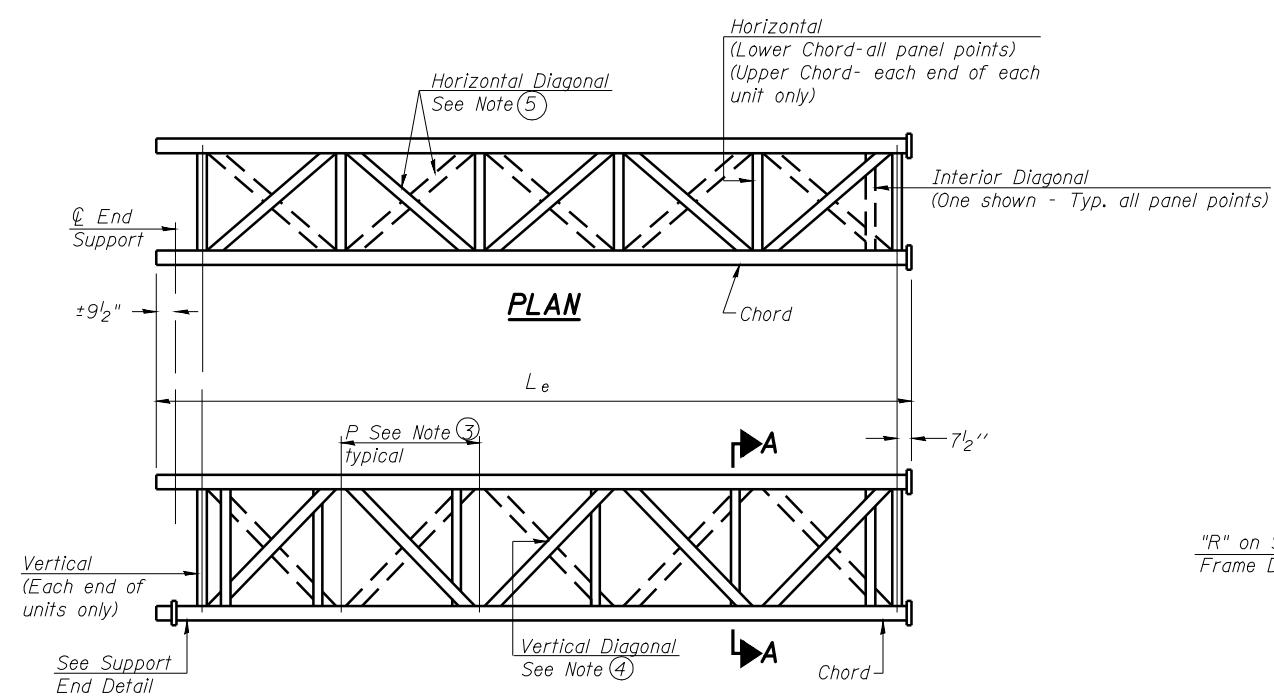
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	242
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\*(84-9) RS-6; (G)Z



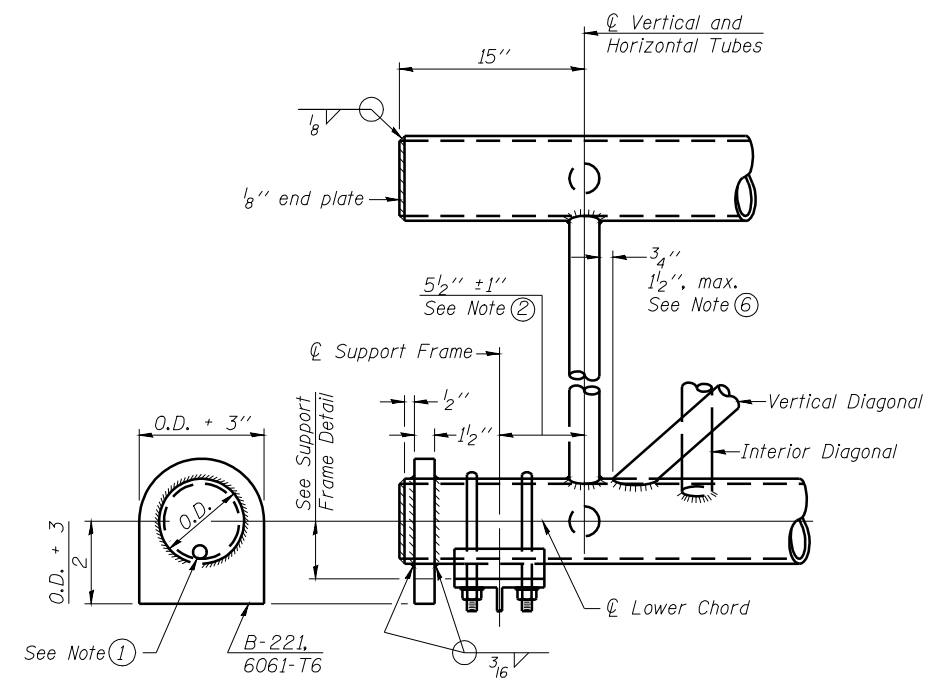
**ELEVATION  
TYPICAL INTERIOR UNIT**

Even number of panels/interior unit required.

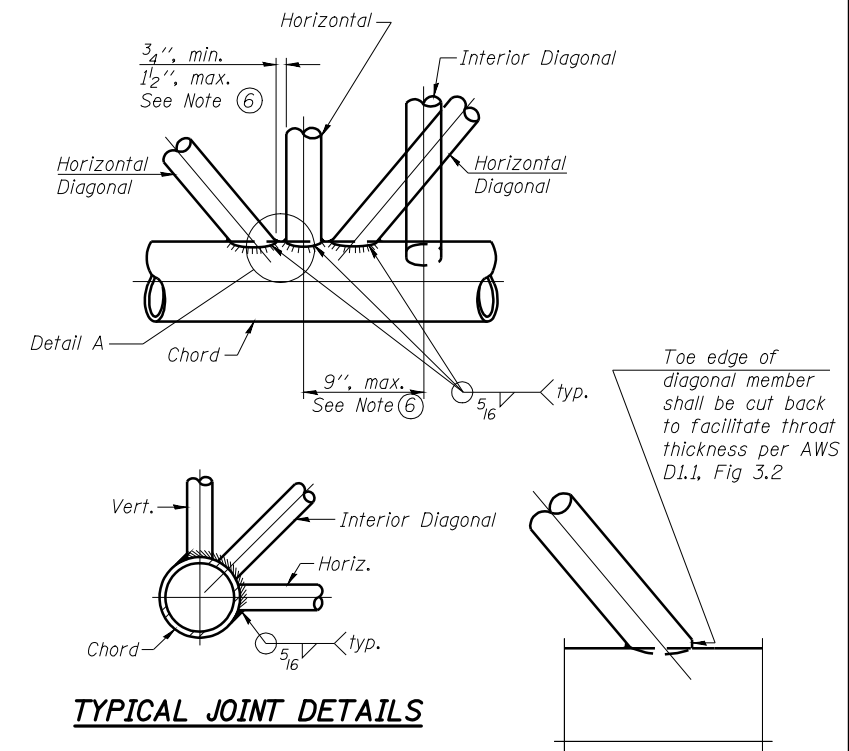


**ELEVATION  
TYPICAL EXTERIOR UNIT**

Even or odd number of panels/exterior units allowed.



**SUPPORT END DETAIL FOR EXTERIOR UNIT**

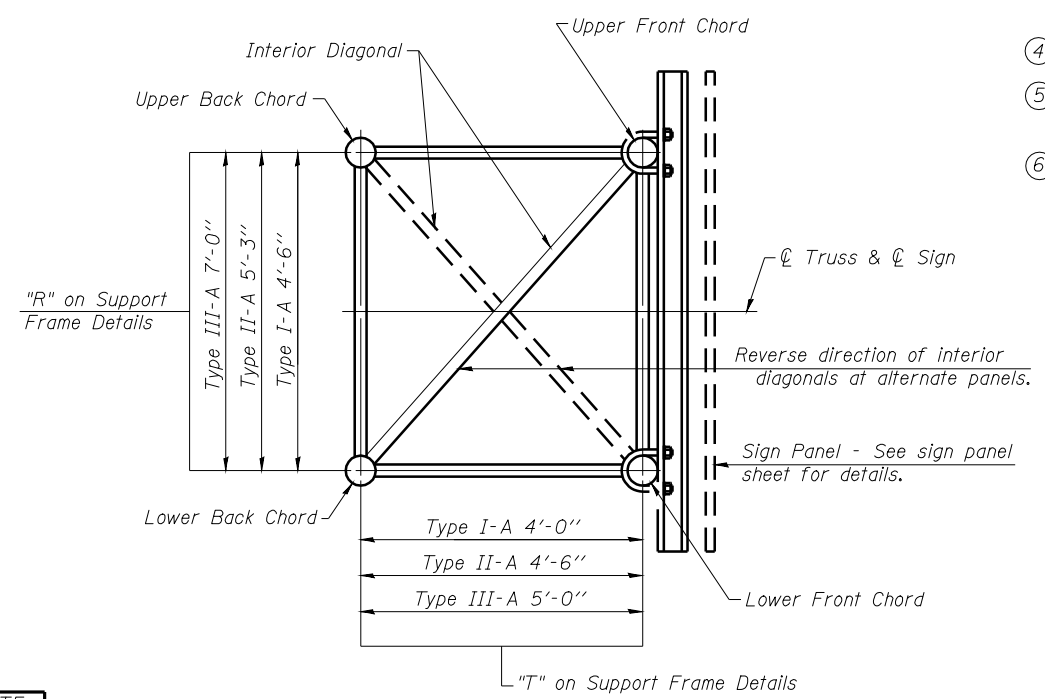


**TYPICAL JOINT DETAILS**

**DETAIL A**

**NOTES**

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 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 3/4" minimum to 1 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.



**SECTION A-A**

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

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	20
PASSED	

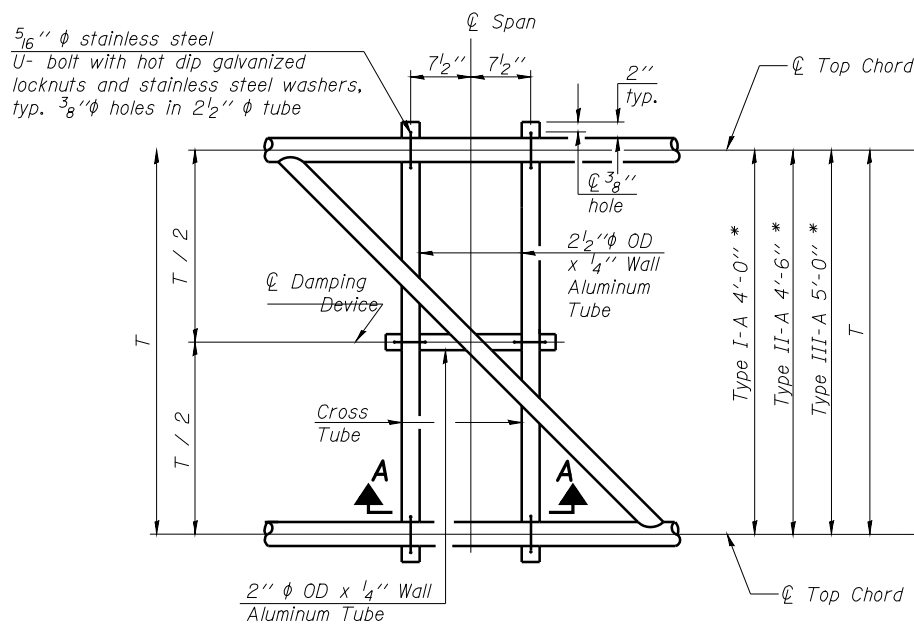
NUMBER	REVISION	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

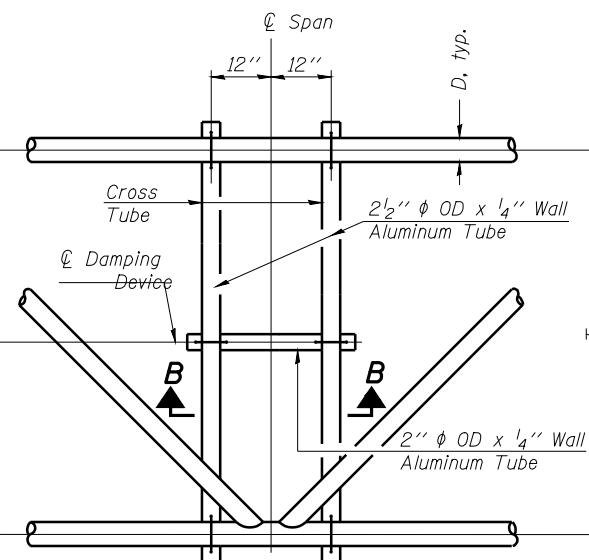
\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	243
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

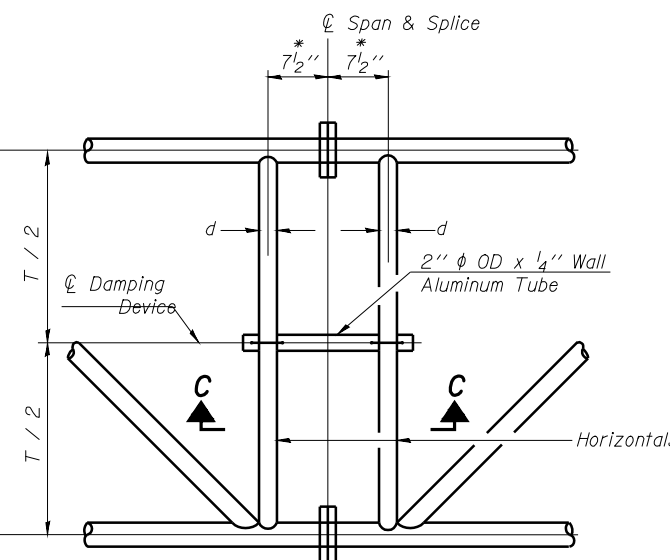
\*(84-9) RS-6; (G)Z



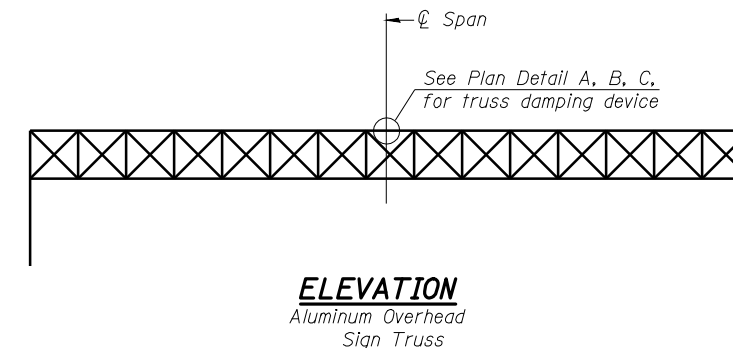
**PLAN DETAIL "A"**  
Span between Panel Points



**PLAN DETAIL "B"**  
Span at Panel Point



**PLAN DETAIL "C"**  
Span at Chord Splice

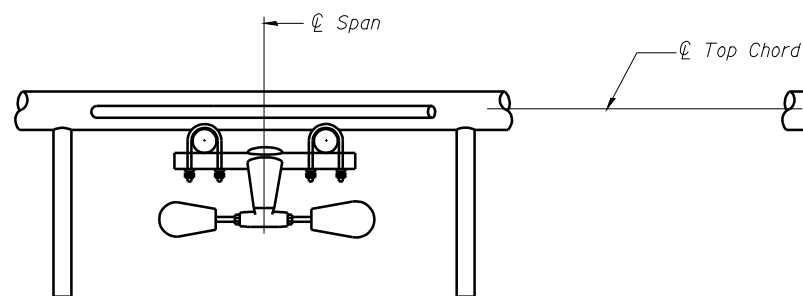


**ELEVATION**  
Aluminum Overhead Sign Truss

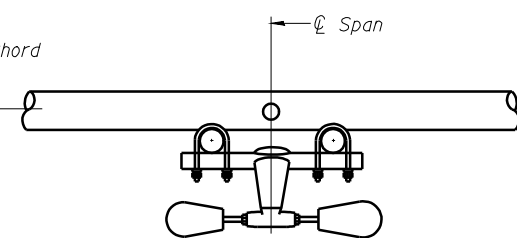
**NOTES**

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

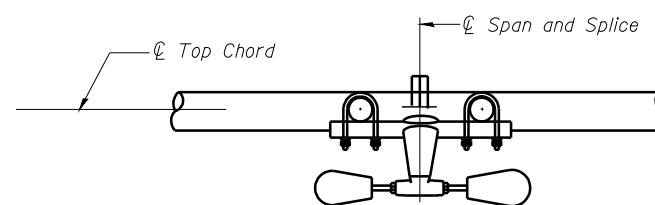
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



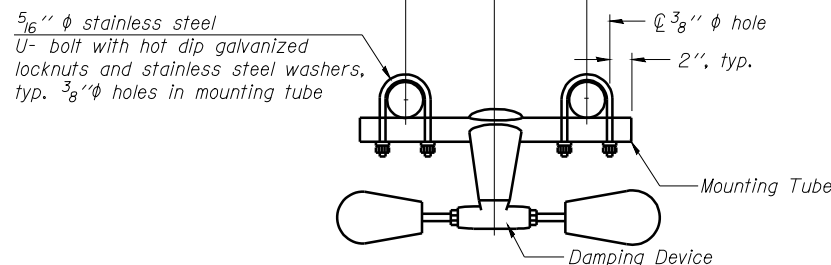
**SECTION A-A**



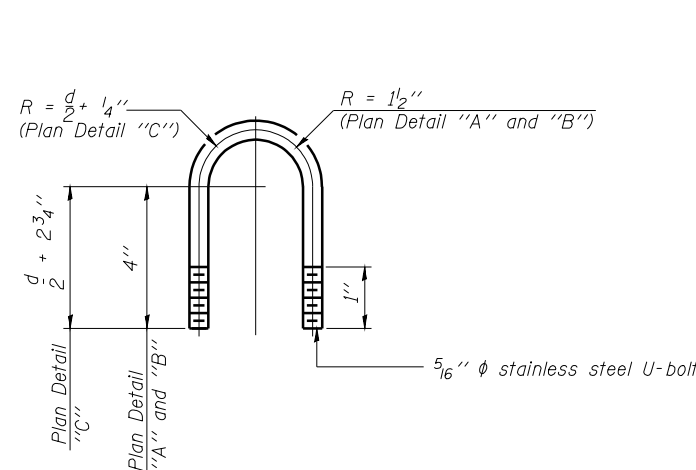
**SECTION B-B**



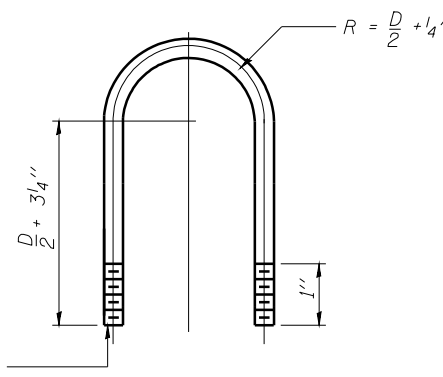
**SECTION C-C**



**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")

DESIGNED -	20
CHECKED -	ENGINEER OF BRIDGE DESIGN
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-D

6/01/2007

**OVERHEAD SIGN STRUCTURE DAMPING DEVICE**

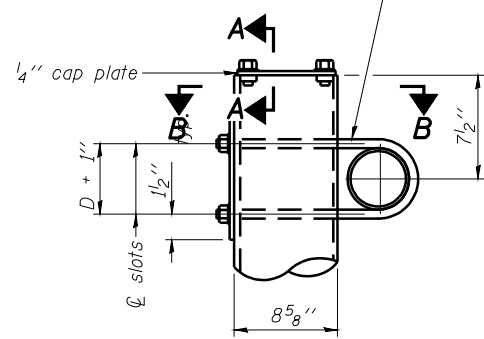
SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

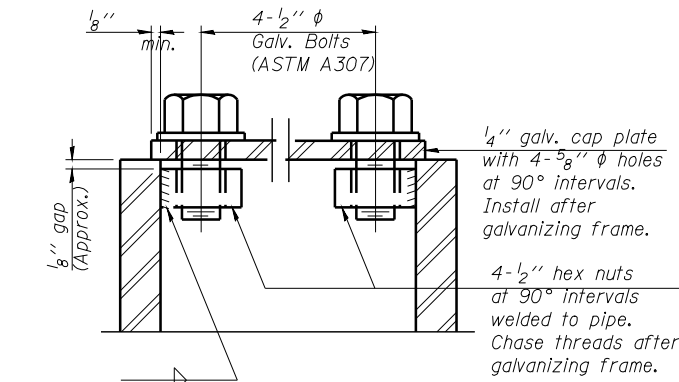
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	244
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\* (84-9) RS-6; (G)Z

3/4" φ stainless steel U-bolt.  
Provide two washers and two hexagon locknuts.  
1 3/16" x 2" slots on 8" φ pipe.  
(4 slots required per pipe)

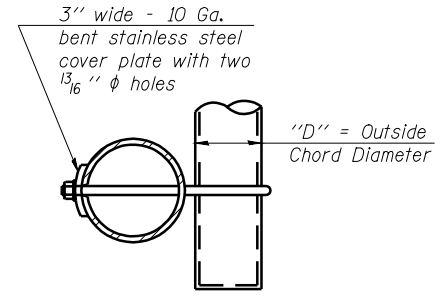


DETAIL A

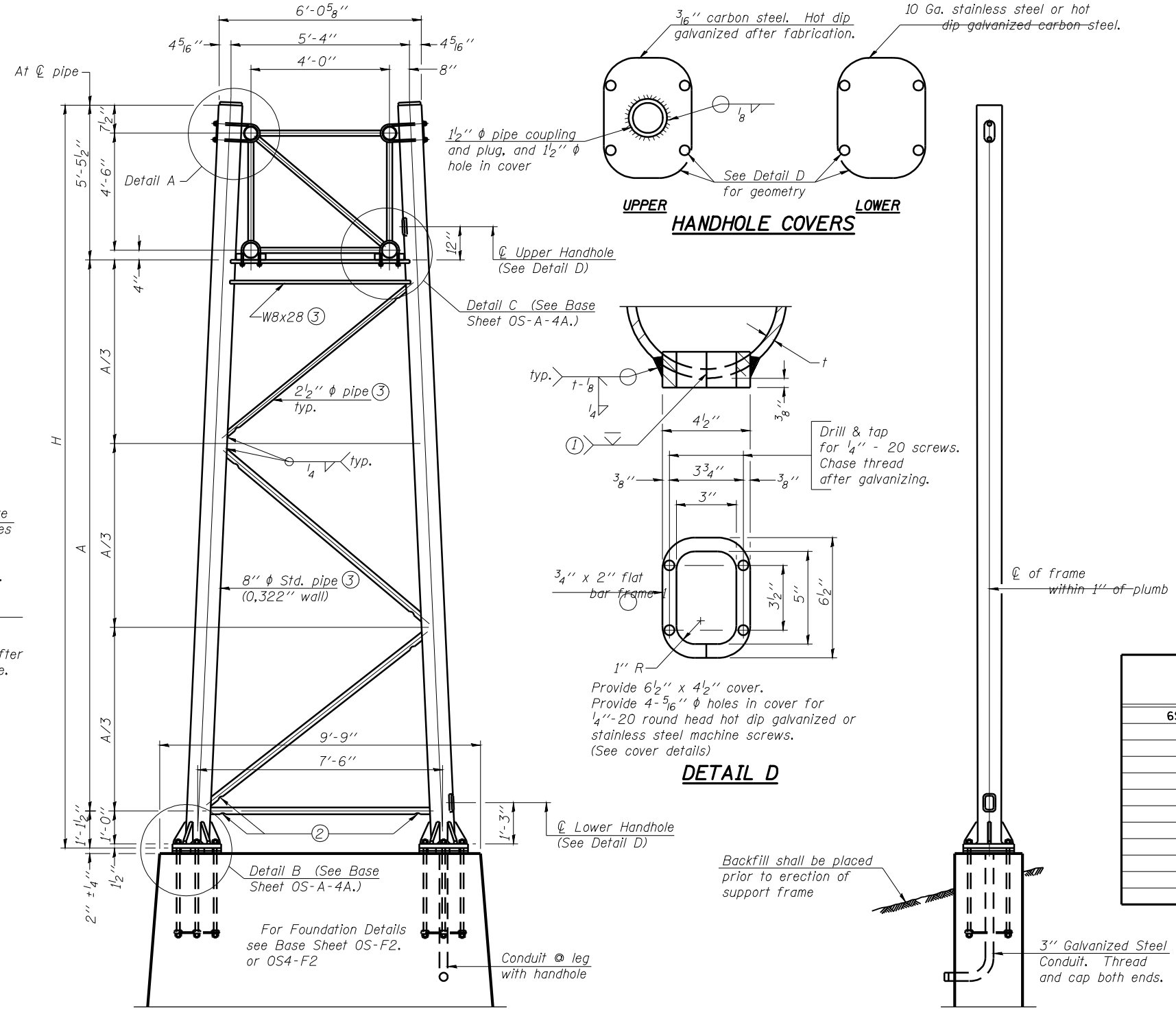


SECTION A-A

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

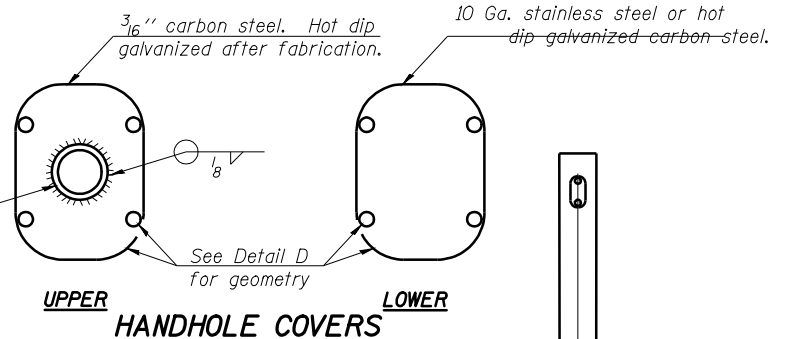


SECTION B-B

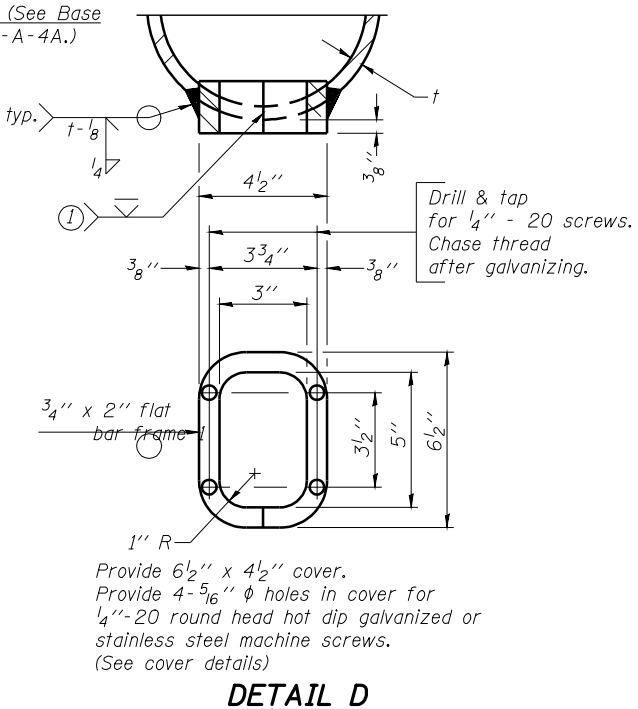


SIDE ELEVATION

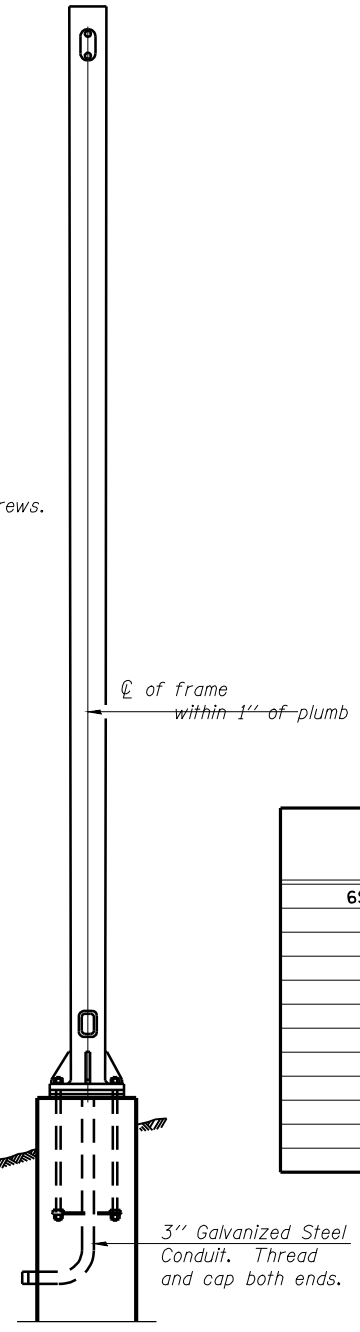
8" φ PIPE TRUSS SUPPORT FRAME



UPPER  
HANDHOLE COVERS  
LOWER



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

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

Structure Number	Station	Support		H (6)	A
		Left	Right		
6S084I072L097.6	686+75	X		30'-4 3/4"	23'-9 3/4"
			X	29'-2 3/4"	22'-7 3/4"

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

DESIGNED -	20
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-4 6/01/2007

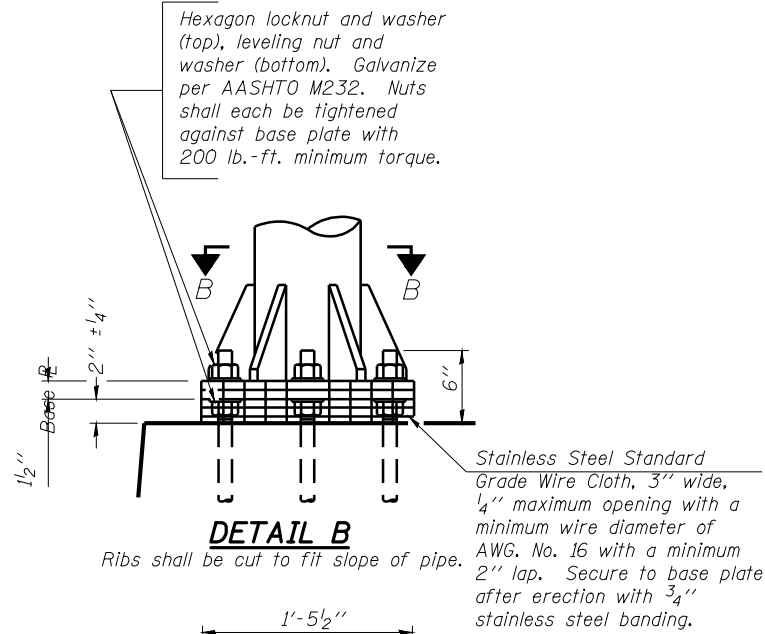
NUMBER	REVISION	DATE



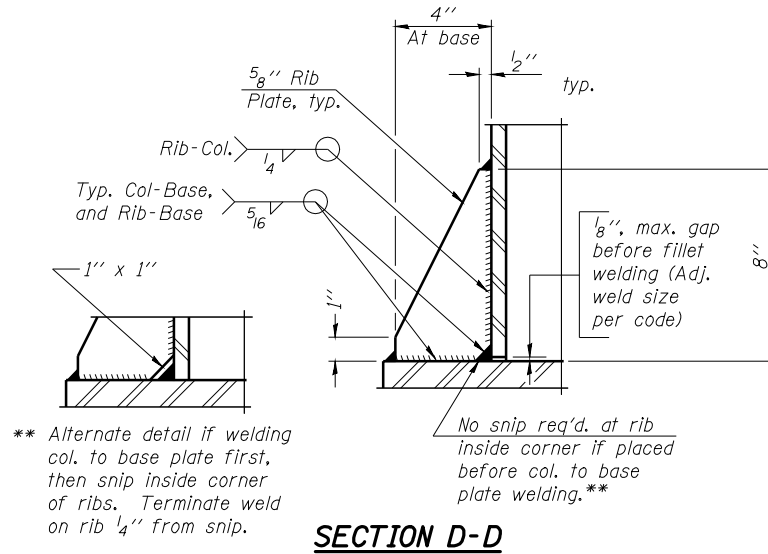
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	245
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

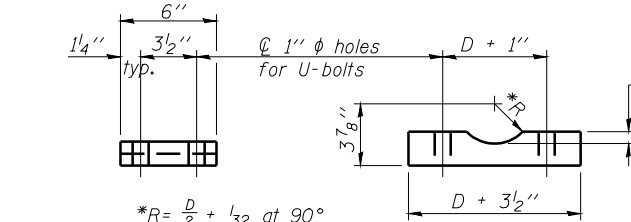
\* (84-9) RS-6; (G)Z



**DETAIL B**



**SECTION D-D**

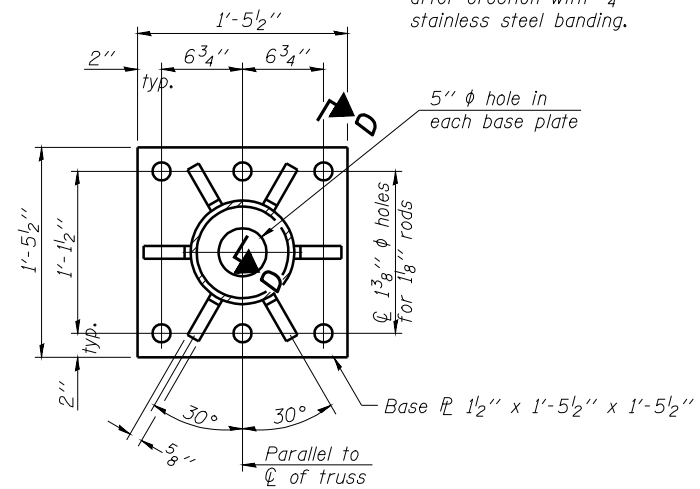


\*R =  $\frac{D}{2} + \frac{1}{32}$  at 90°  
D = Outside Diameter of Chord.

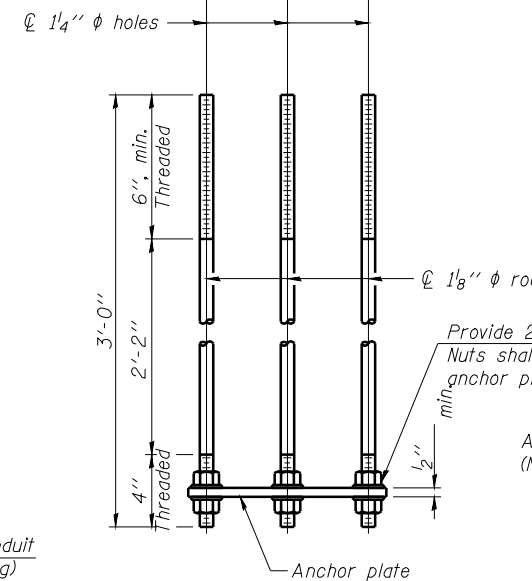
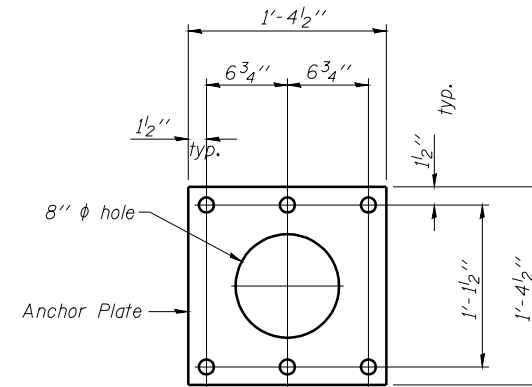
**SADDLE SHIM DETAIL**

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

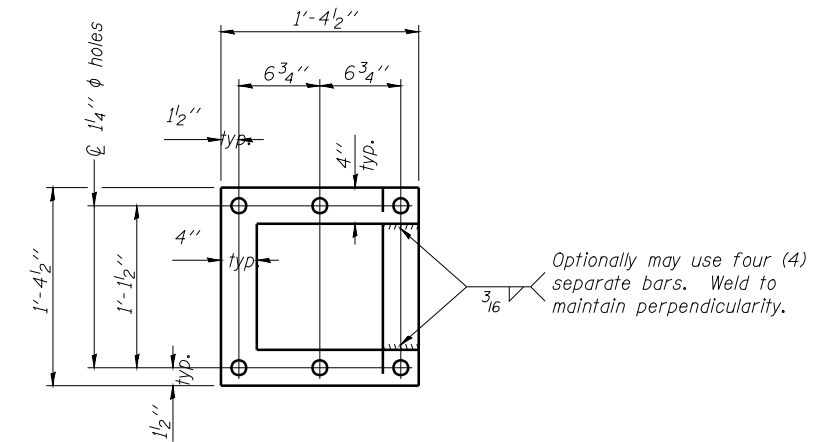
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"



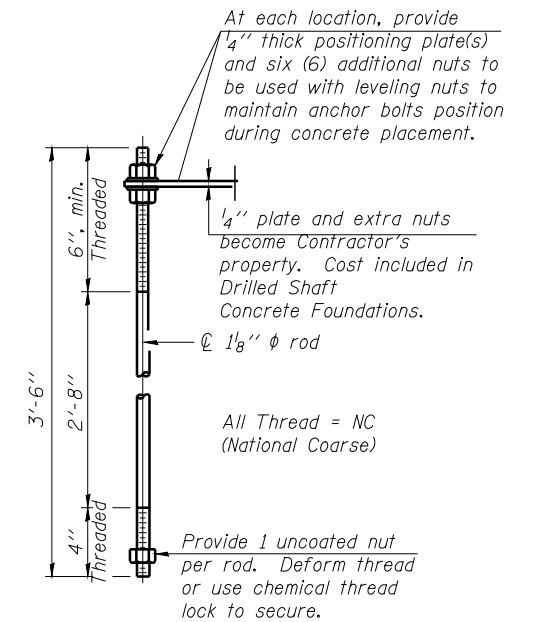
**SECTION B-B**



**ANCHOR ROD DETAIL**  
Spread Footing Foundation



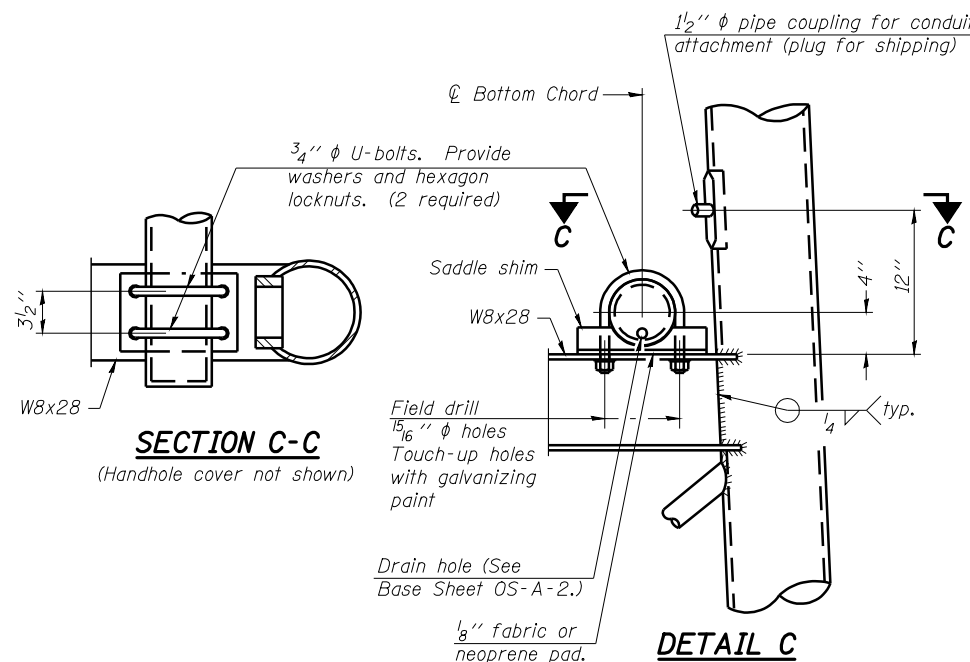
**POSITIONING PLATE(S)**



**ANCHOR ROD DETAIL**  
Drilled Shaft Foundation

Anchor rods shall conform to AASHTO M314 Grade 36 or 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

NUMBER	REVISION	DATE



**SECTION C-C**

(Handhole cover not shown)

**DETAIL C**

**TYPE I-A TRUSS**  
**8"  $\phi$  PIPE SUPPORT FRAME DETAILS**

**OVERHEAD SIGN STRUCTURES**  
**SUPPORT FRAME DETAILS ALUMINUM TRUSS**

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

DESIGNED -	20
CHECKED -	ENGINEER OF BRIDGE DESIGN
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

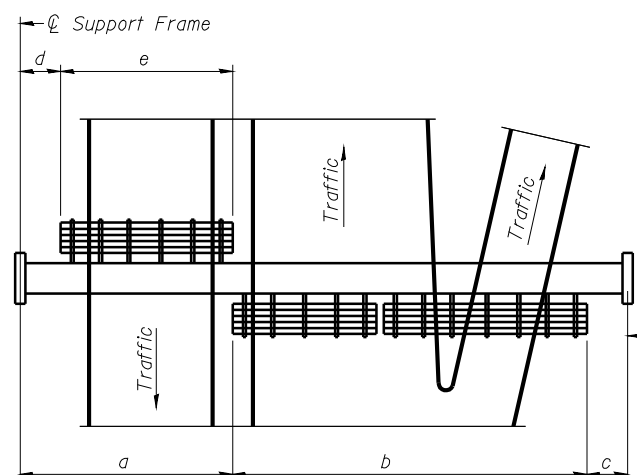
OS-A-4A

6/01/2007

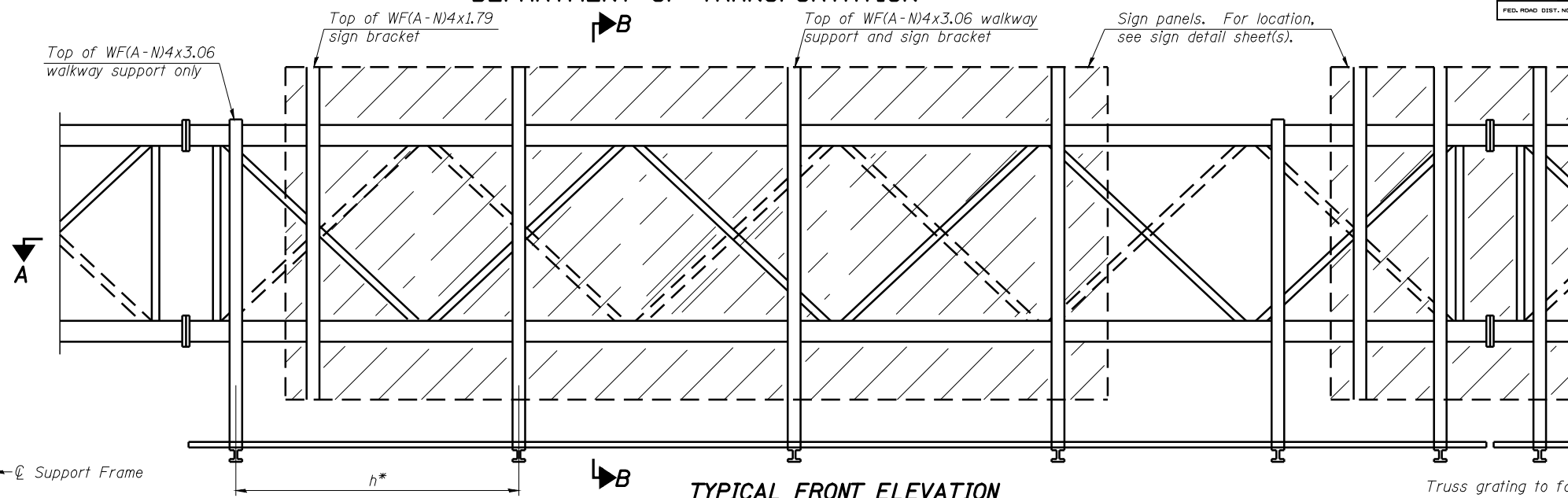
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	246
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\*(84-9) RS-6; (G)Z

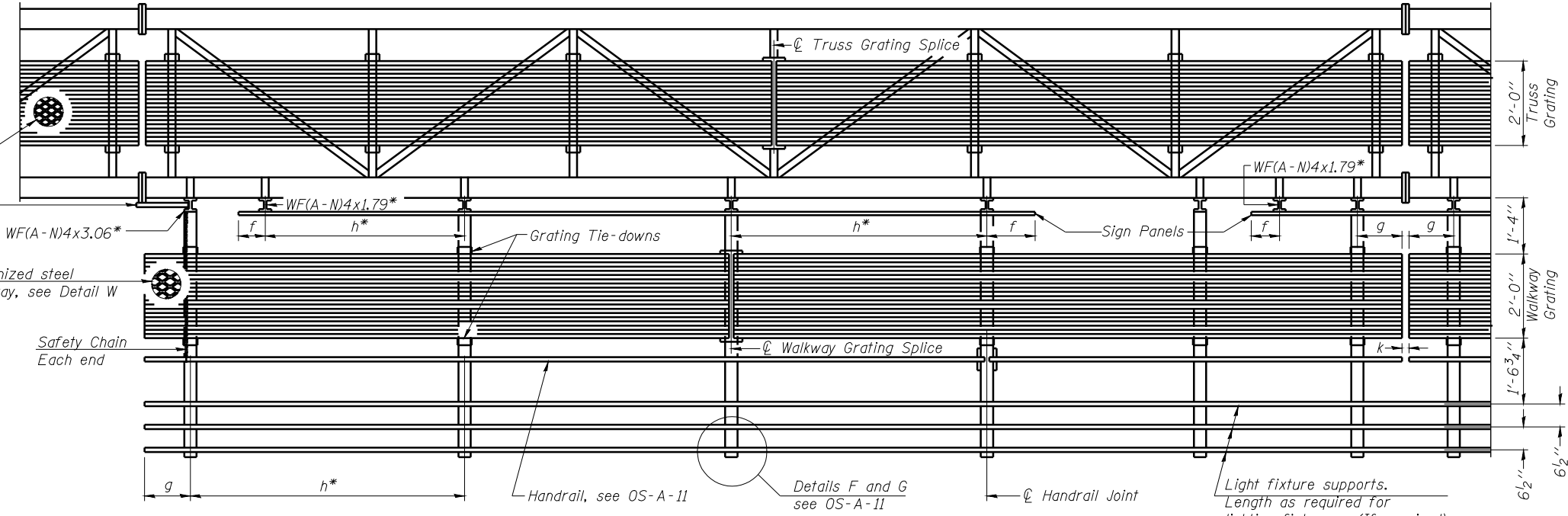


**PLAN WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)



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

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".



**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.

Note: Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-9, and may be substituted by Contractor at no change in contract cost.

**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  $\phi$  of nearest bracket)
  - g = 12" maximum, 4" minimum (End of walkway grating to  $\phi$  of nearest support bracket)
  - h = 6'-0" maximum ( $\phi$  to  $\phi$  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.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
6S084I072L097.6	686+75	21'-3"	44'-9"	14'-0"	-	-	

**OVERHEAD SIGN STRUCTURES  
ALTERNATE WALKWAY DETAILS**

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

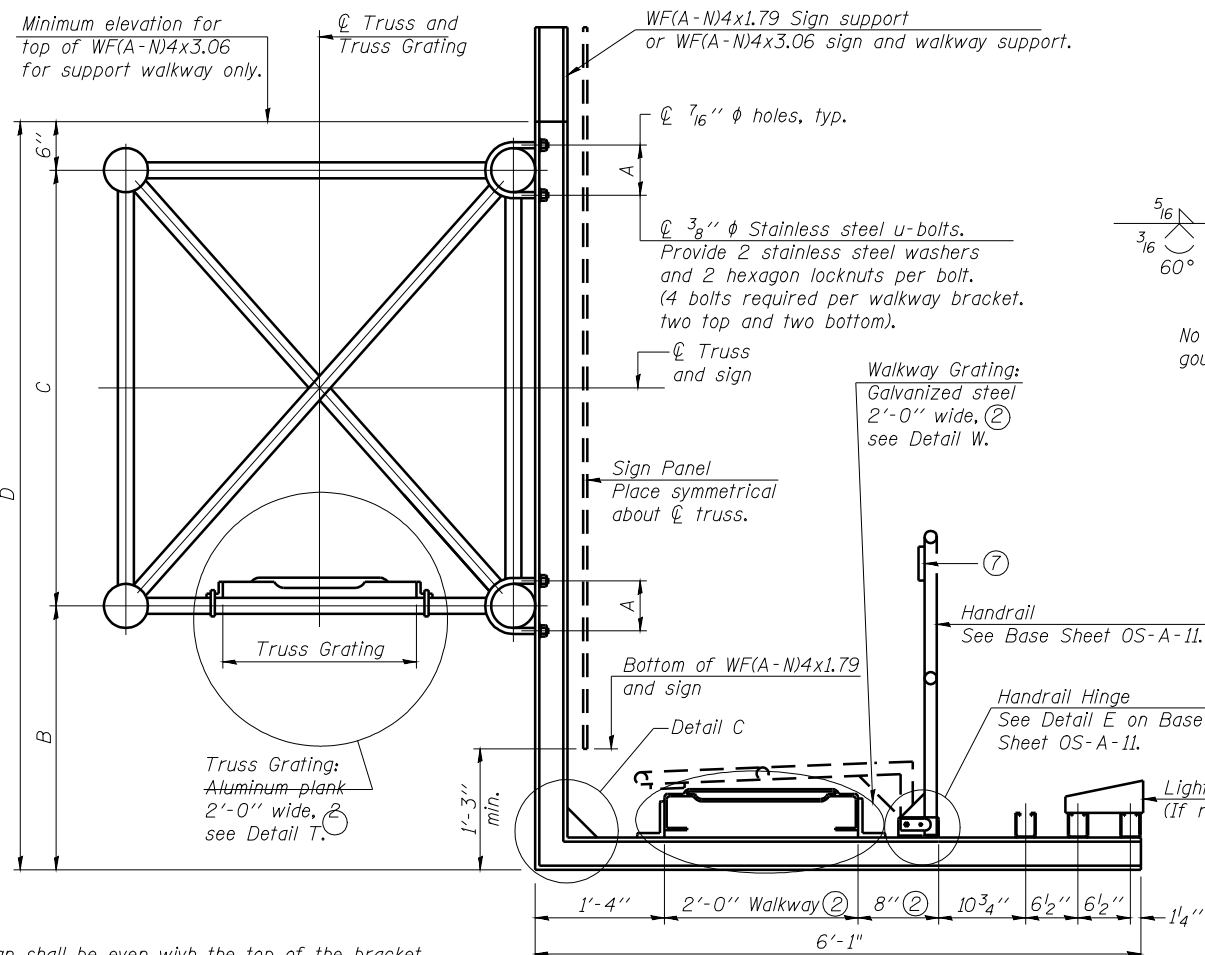
DESIGNED -	20
CHECKED -	ENGINEER OF BRIDGE DESIGN
DRAWN -	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED -	

NUMBER	REVISION	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

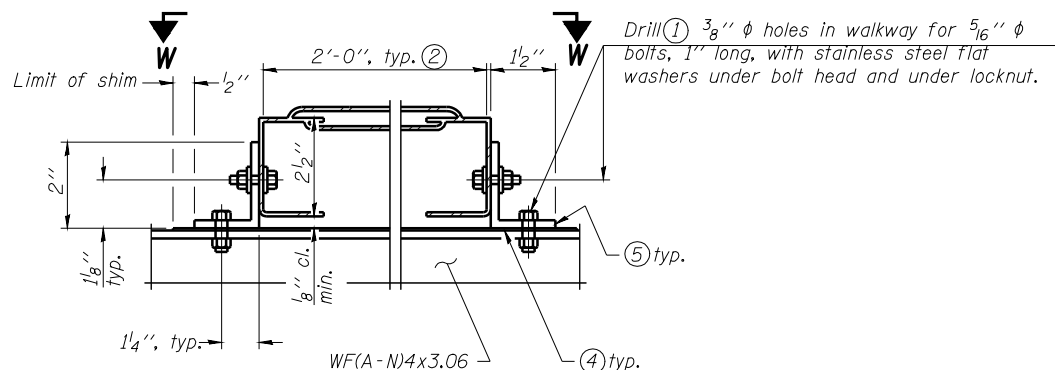
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	247
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\* (84-9) RS-6; (G)Z



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

SECTION B-B



DETAIL W

**GALVANIZED STEEL WALKWAY GRATING**

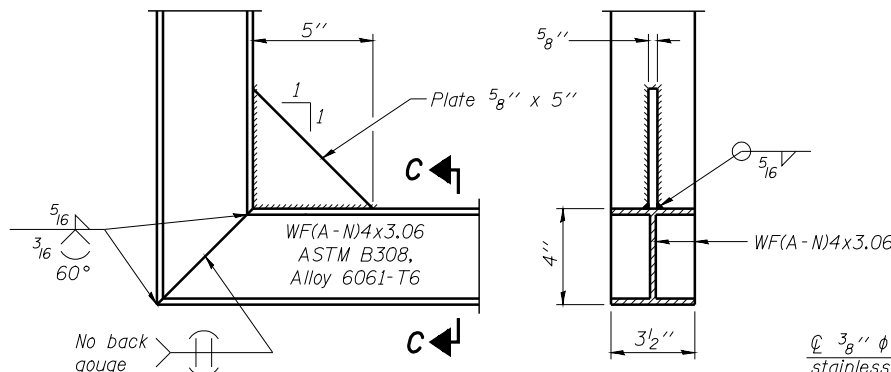
DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	20
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

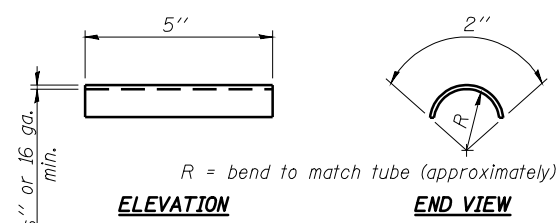
OS-A-10S

6/01/2007

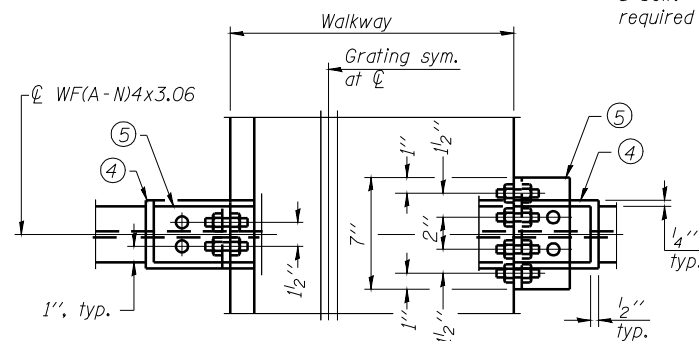


DETAIL C

SECTION C-C



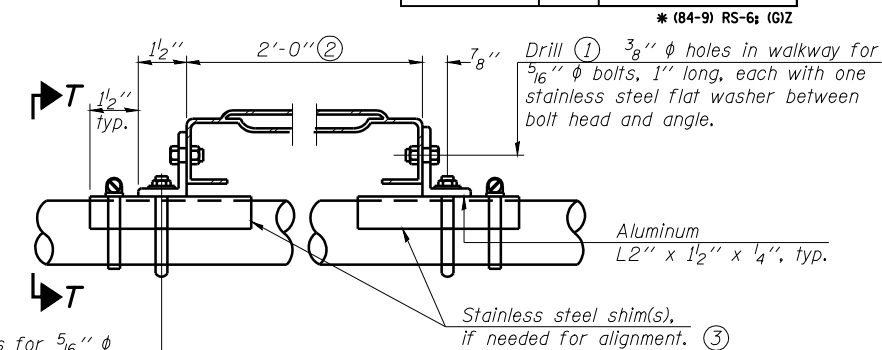
SHIM DETAIL



WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE

SECTION W-W

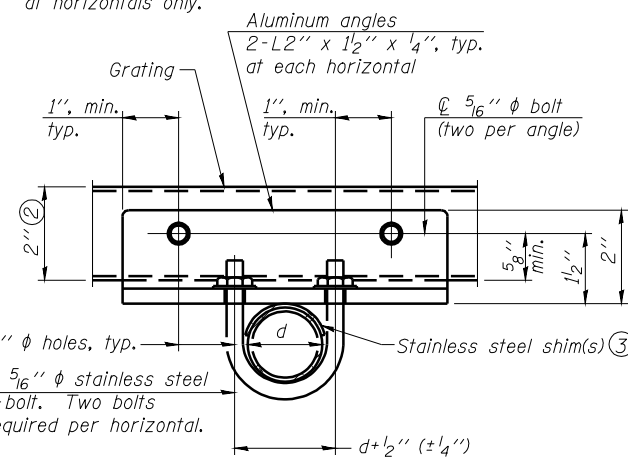
- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0" clear span. Walkway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



DETAIL T

(Truss grating at horizontal)

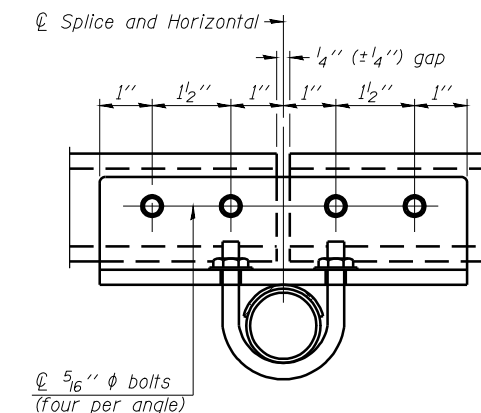
3/8" φ holes in angles for 5/16" φ stainless steel u-bolts. Two stainless steel washers and hot dip galvanized steel nuts required per bolt. U-bolt and angle connections required at horizontals only.



SECTION T-T

(Truss Grating Continuous)

d = outside diameter of horizontal



SECTION T-T

(Truss Grating Splice)

Alternate splice details and locations may be used subject to the Engineer's review and approval.

**ALUMINUM TRUSS GRATING**

Structure Number	Station	A	B	C	D
6S084I072L097.6	686+75	5 7/16"	4'-0"	4'-6"	9'-0"

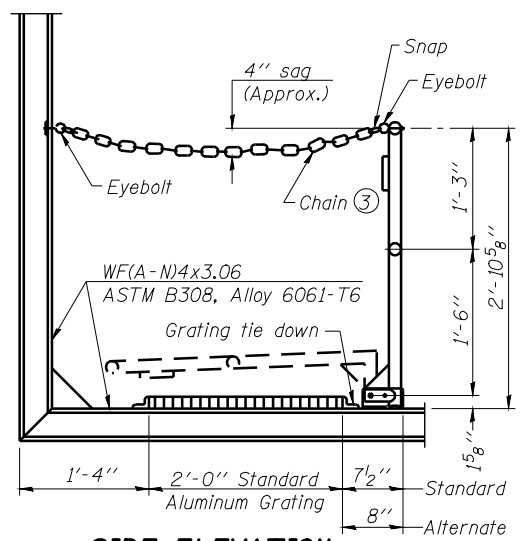
**OVERHEAD SIGN STRUCTURES  
ALTERNATE WALKWAY DETAILS**

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

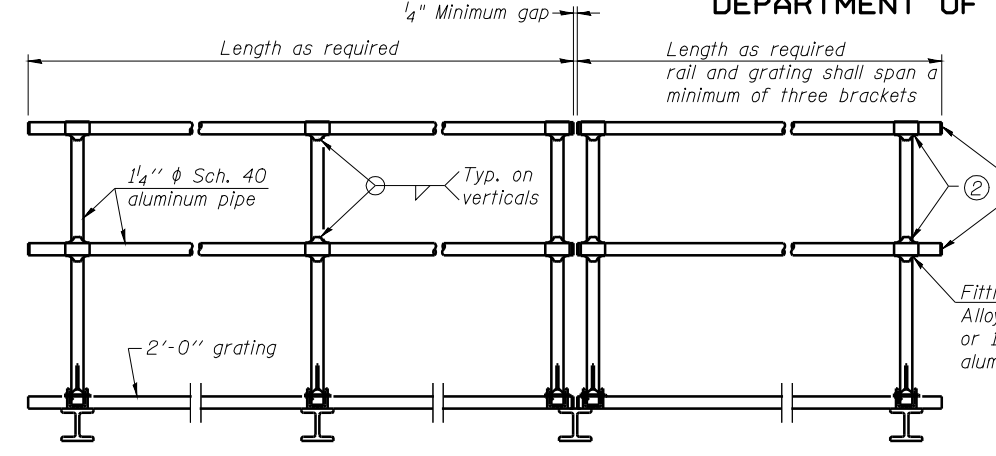
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	248
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\* (84-9) RS-6; (G)Z



**SIDE ELEVATION**  
(Showing safety chain w/o sign)

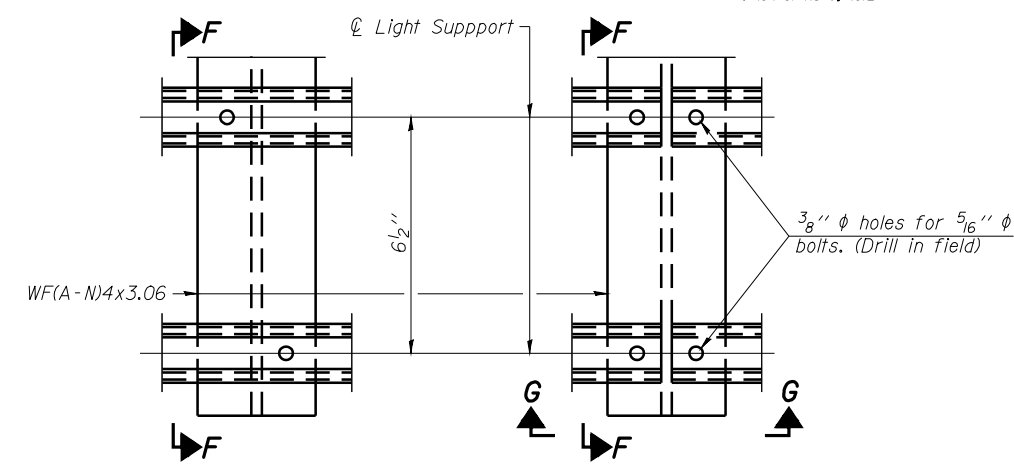


**FRONT ELEVATION**

**HANDRAIL DETAILS**

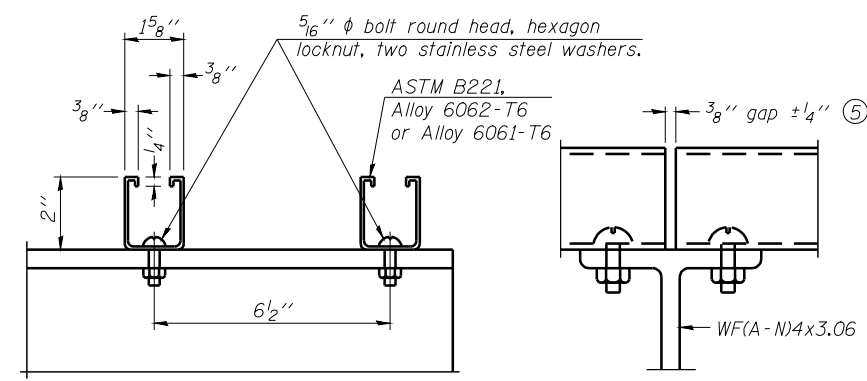
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- 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" diameter hole in fitting for 3/8" diameter bolt. Field drill 1/16" diameter hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" diameter eyebolts in 7/16" diameter holes on top rail at ends only.)



**DETAIL F**

**DETAIL G**

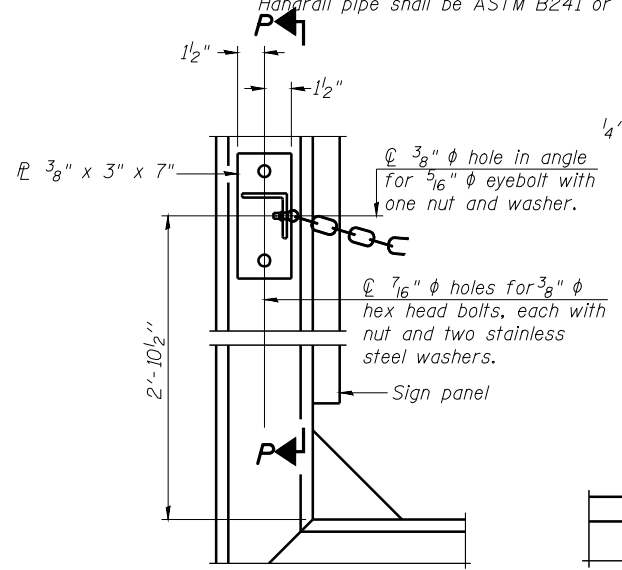


**SECTION F-F**

**SECTION G-G**

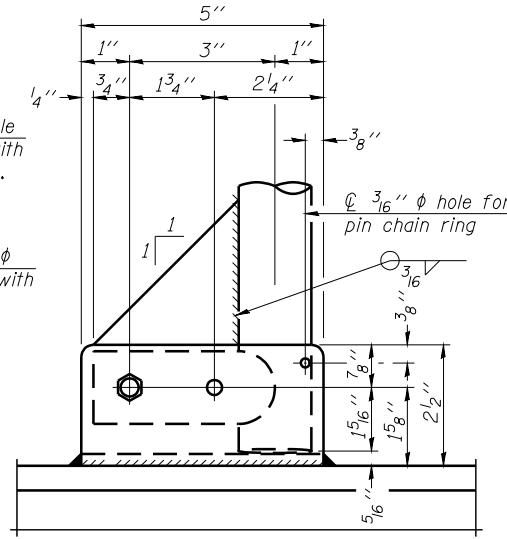
**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

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

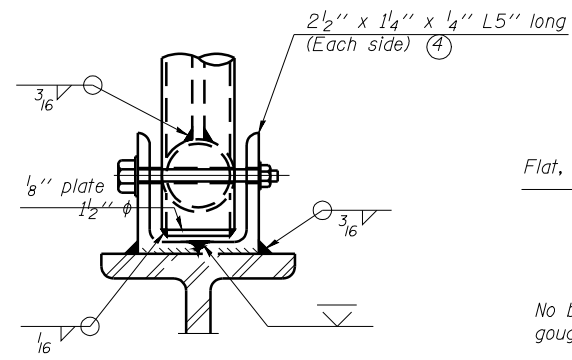


**ALTERNATE SAFETY CHAIN ATTACHMENT**  
(With Sign Present)

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

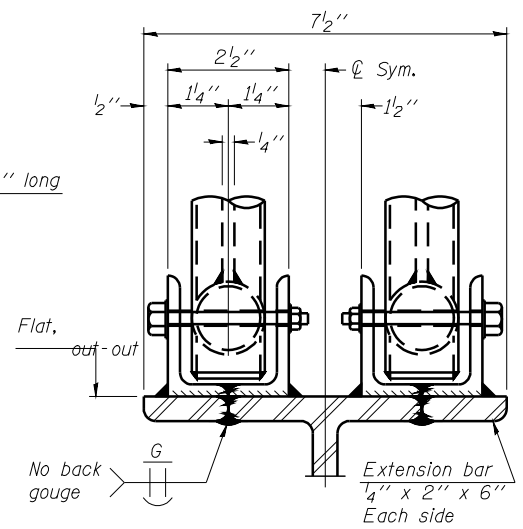


**SIDE ELEVATION**

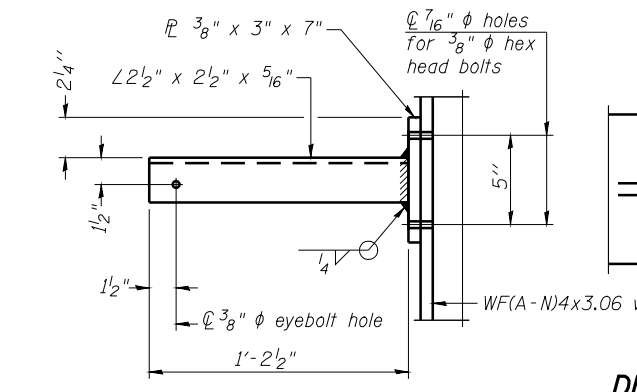


**FRONT ELEVATION**

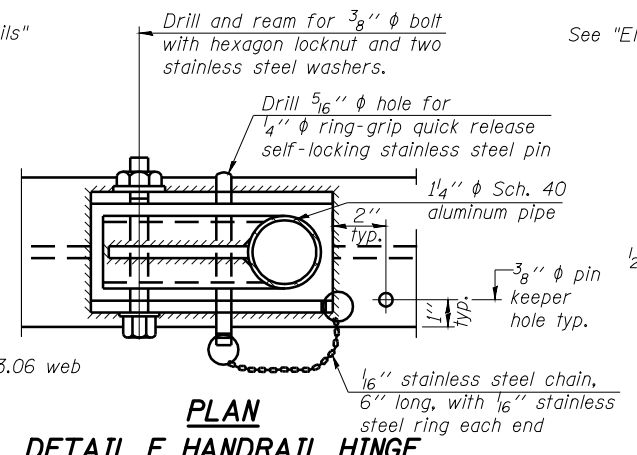
See "Elevation" at right for dimensions.



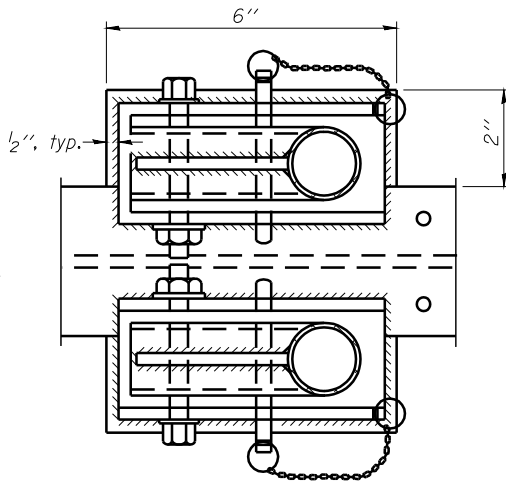
**ELEVATION AT HANDRAIL JOINT** ④



**SECTION P-P**

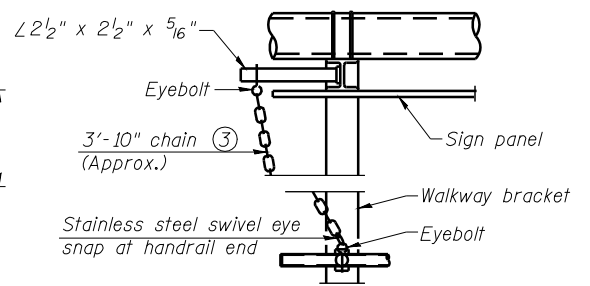


**PLAN**  
**DETAIL E HANDRAIL HINGE**



**PLAN AT HANDRAIL JOINT**

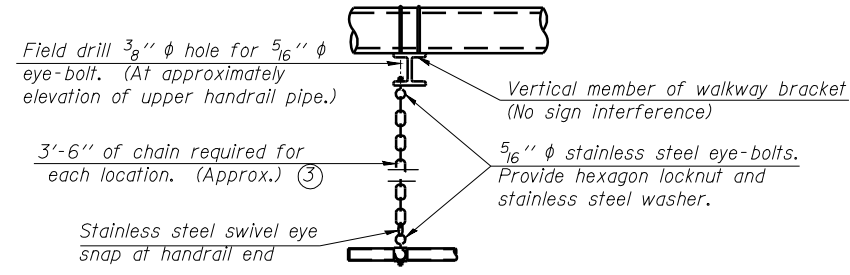
Details not shown same as "PLAN"



**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.

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	-	20
PASSED	-	

NUMBER	REVISION	DATE

**OVERHEAD SIGN STRUCTURES  
ALUMINUM HANDRAIL DETAILS**

SIGNING DETAIL  
6S084I072L097.6  
FAI-72, MACARTHUR BLVD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	249
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

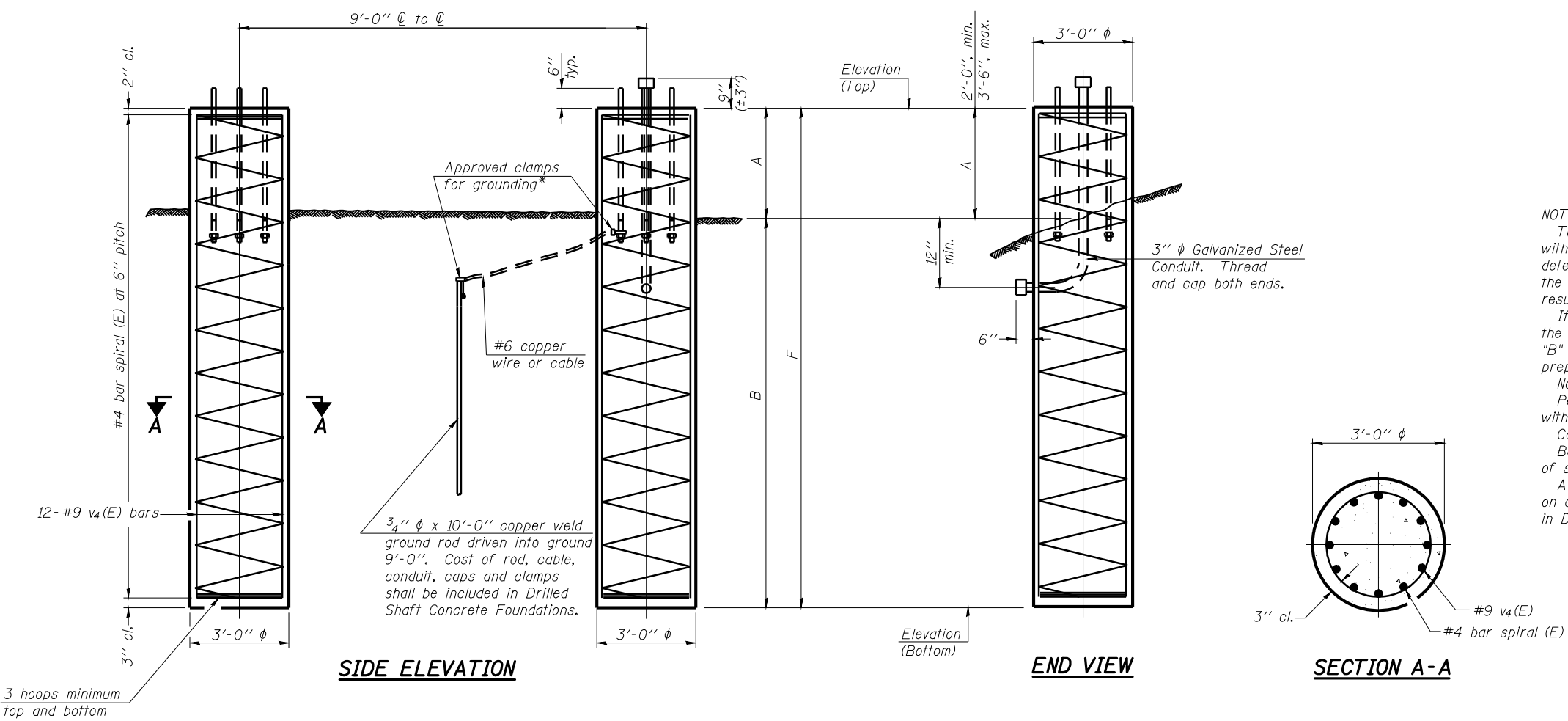
\* (84-9) RS-6; (G)Z

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

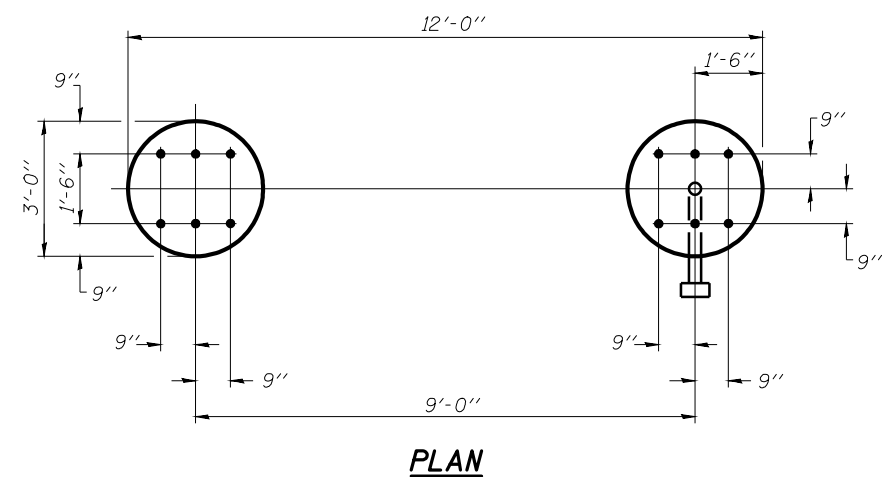
\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar Number	Size	Length	Shape
v4(E)	#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 ( $Q_u$ ) 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.  
 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.



Structure Number	Station	Elevation Top	Elevation Bottom	Left Foundation			Right Foundation			Class SI Concrete (Cu. Yds.)		
				A	B	F	Elevation Top	Elevation Bottom	A		B	F
6S0841072L097.6	686+75	98.32	81.83	2'-0"	16'-6"	18'-0"	99.48	82.98	2'-0"	16'-0"	18'-0"	9.7

DESIGNED	-	20
CHECKED	-	ENGINEER OF BRIDGE DESIGN
DRAWN	-	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	-	

OS4-F4 6/01/2007

NUMBER	REVISION	DATE

DETAILS FOR 12"  $\phi$  SUPPORT FRAME  
TYPE III-A TRUSS

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SIGNING DETAIL  
6S0841072L097.6  
FAI-72, MACARTHUR BLVD

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	250
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

Illinois Department of Transportation  
Division of Highways  
1001 District 6

### SOIL BORING LOG

Page 1 of 1  
Date 6/28/06

ROUTE FAI 72 DESCRIPTION Overhead Sign Truss for 6th Street Ramp from West Bound I-72 LOGGED BY M. Tappan

SECTION (84-9-4) HBK, BY-1 LOCATION SE 1/4, SEC. 15, TWP. 15 N, RNG. 5 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 6S0841072L097.6  
PR  
Station 687+75

BORING NO. 2 South (Left)  
Station 687+70  
Offset 34.0ft Lt  
Ground Surface Elev. 588.9 ft

DEPTH (ft)	DIAMETER (ft)	SOIL DESCRIPTION	TESTS	REMARKS
0		Light Grey Dry Silt		
2				
9	2.2			Refer STA to Existing Overhead Sign Structure 6C0841072L97.6 - S-10
7	S-10			Refer Elevation to cl. of I-72 at STA 687+75 -592.07'
2		Brown and Light Grey Moist SILTY CLAY		
3	0.8			
2	B			
-5				
1				
1	0.4			
1	B			
1				
1	1.0			
2	B			
578.90	-10	Light Olive Brown and Grey Moist SILTY CLAY (F11)		
1				
3	1.4			
3	B			
575.90		Light Olive Grey V. Poorly Cemented Fine Grained SANDSTONE (Note - Very Weak Material, Crumbled in Hand)		
15				
100	/6"			
-15				
572.90	20	Interbedded Grey Poorly Indurated SANDY SHALE and Calcareous SHALE Seams		
100	/5"			
5				
569.90	100	Grey Dry Fissile Silty SHALE w/ Sandy Shale Seams		
100	/4"			
-20		Boring Completed		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOLS\GINT FILES\SANGAMON\OVERHEAD SIGN TRUSS AT WB I-72 AND 6TH STREET\BMP\DP1 Data Template\BTEMP1.LOT Date Printed: 9/1/06  
Latitude: 39 Deg 44.891' N Longitude: 89 Deg 38.378' W Datum: NAD83 Job Number: C96-523-04

Illinois Department of Transportation  
Division of Highways  
1001 District 6

### SOIL BORING LOG

Page 1 of 1  
Date 6/28/06

ROUTE FAI 72 DESCRIPTION Overhead Sign Truss for 6th Street Ramp from West Bound I-72 LOGGED BY M. Tappan

SECTION (84-9-4) HBK, BY-1 LOCATION SE 1/4, SEC. 15, TWP. 15 N, RNG. 5 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 6S0841072L097.6  
PR  
Station 687+75

BORING NO. 1 North (Right)  
Station 687+62  
Offset 52.0ft Lt  
Ground Surface Elev. 589.7 ft

DEPTH (ft)	DIAMETER (ft)	SOIL DESCRIPTION	TESTS	REMARKS
0		Dark Grey and Brown Moist SILTY CLAY		
2				
3	2.6			
4	S-10			
2		Brown and Light Grey Moist SILTY CLAY		
2	0.5			
2	B			
-5				
583.20		Brown and Light Grey Moist SILTY CLAY		
2	0.5			
2	B			
581.20		Brown and Grey Moist SILTY CLAY (F11)		
2				
3	0.9			
4	B			
-10				
1				
3	1.0			
3	B			
576.70		Light Olive Grey Moist V. Poorly Cemented Fine Grained SANDSTONE (Note - Very Weak Material, Crumbled in Hand)		
11				
40				
60	/3"			
-15				
573.20	3	Grey Moist Poorly Indurated Micaceous SANDY SHALE w/ Friable Silty SHALE Seams		
20				
41				
5				
90		Grey Dry Fissile Silty SHALE		
10				
-20		Boring Completed		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOLS\GINT FILES\SANGAMON\OVERHEAD SIGN TRUSS AT WB I-72 AND 6TH STREET\BMP\DP1 Data Template\BTEMP1.LOT Date Printed: 9/1/06  
Latitude: 39 Deg 44.891' N Longitude: 89 Deg 38.378' W Datum: NAD83 Job Number: C96-523-04

MACARTHUR/I72 OVERHEAD SIGN STRUCTURE BORINGS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING - SOIL BORING LOG  
FAI-72, MACARTHUR BLVD SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. HORIZ.  
DATE: Mar-20-2008 09:40:38AM

DRAWN BY: IDOT  
CHECKED BY: IDOT



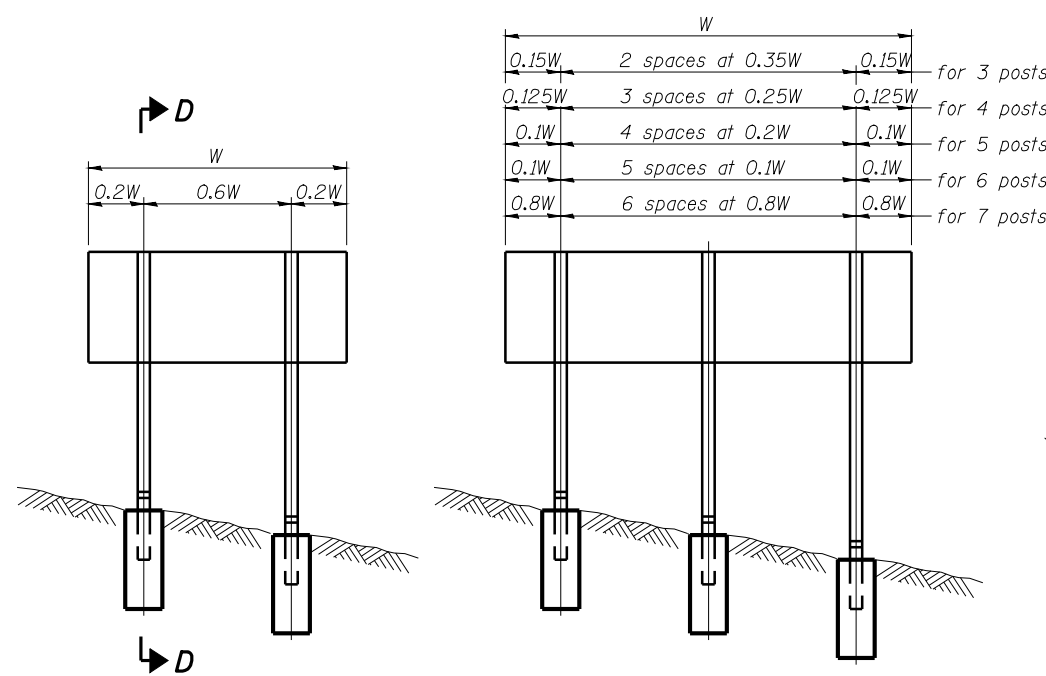
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LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

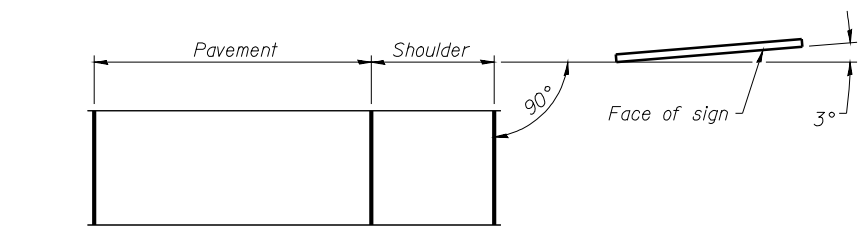
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	251
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

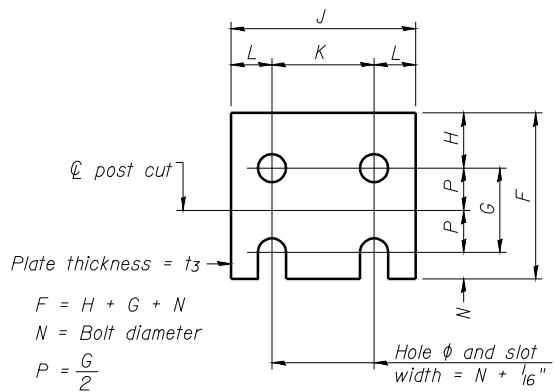
\*(84-9) RS-6; (G)Z



**ELEVATION**



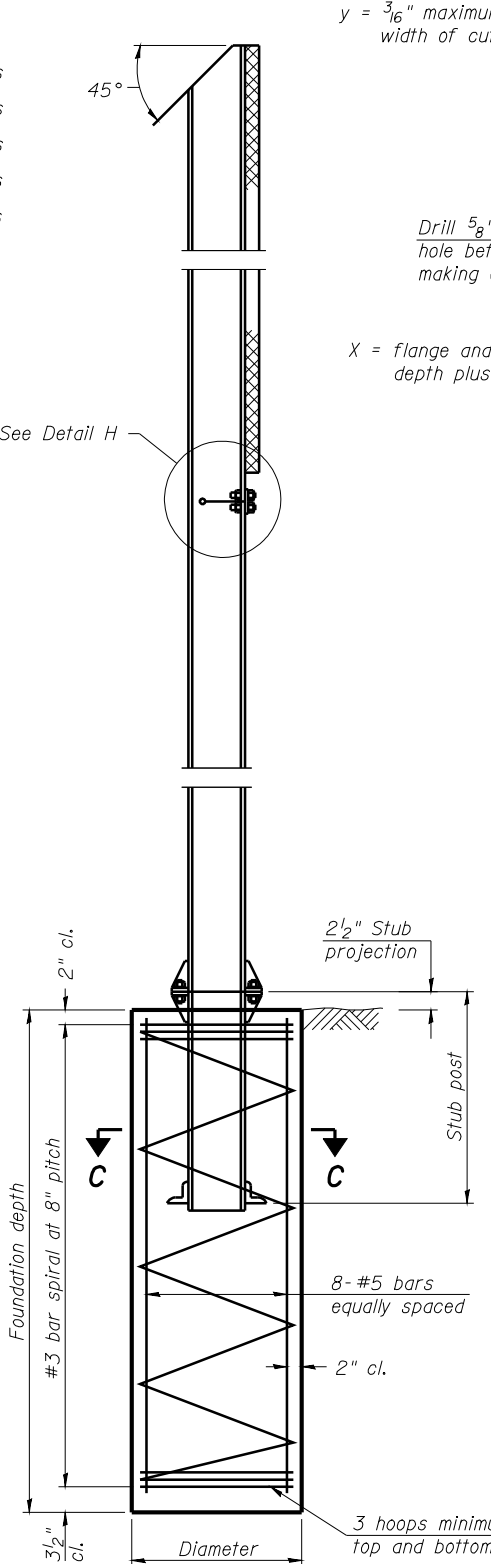
**LOCATION SKETCH**



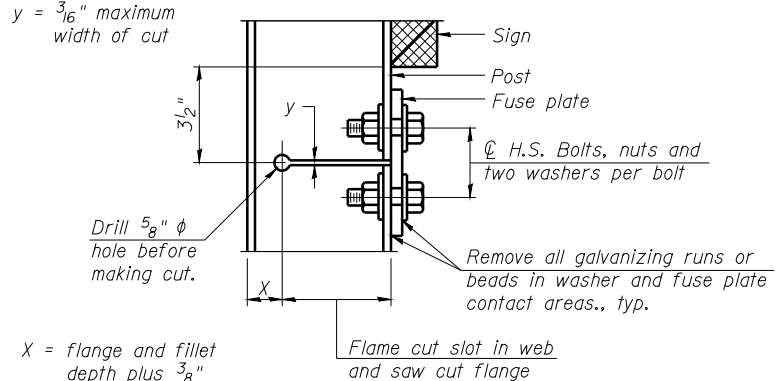
**FUSE PLATE DETAIL**

(Install with notches down.)

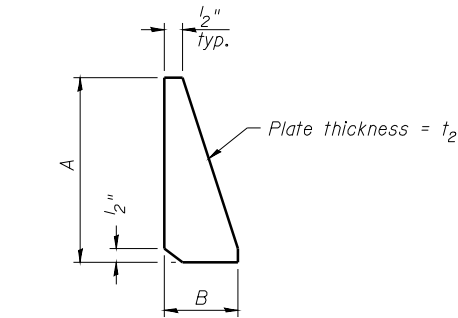
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



**SECTION D-D**

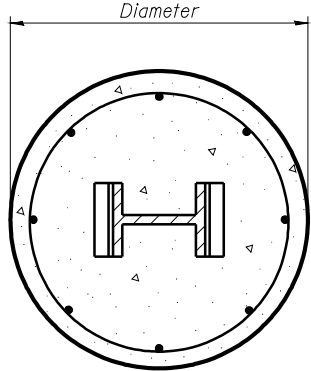


**DETAIL H**

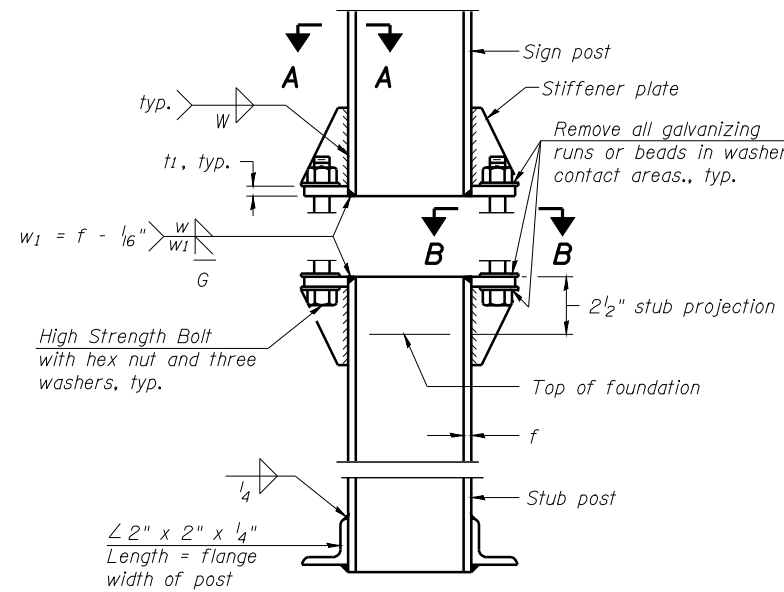


**STIFFENER PLATE DETAIL**

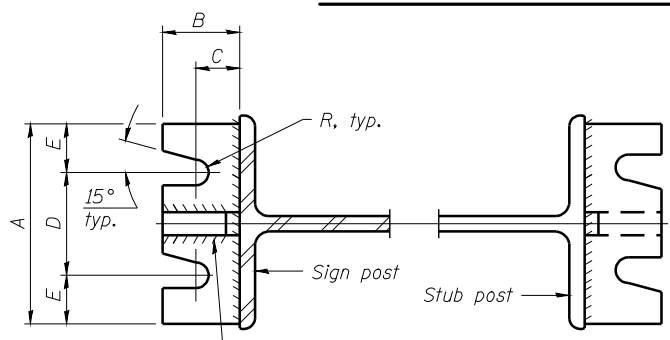
(See table for dimensions.)



**SECTION C-C**

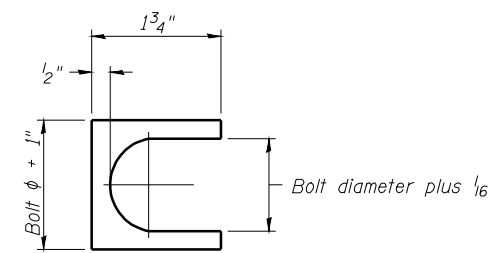


**ELEVATION  
SIGN POST & STUB POST**



**SECTION A-A**

**SECTION B-B**



**SHIM DETAIL**

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

**GENERAL NOTES**

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

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

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

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

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

**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS**

**SIGNING DETAIL  
FAI-72, MACARTHUR BLVD**

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

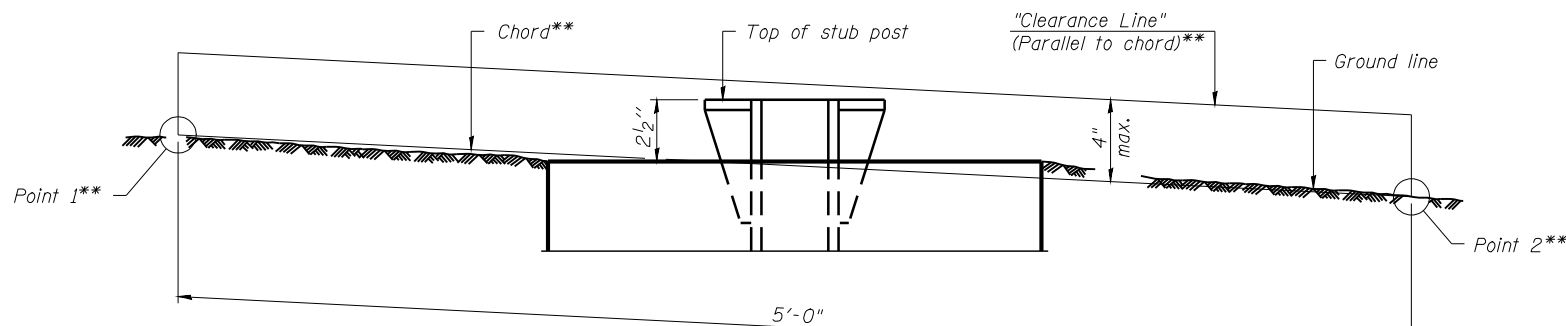
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	252
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\*(84-9) RS-6; (G)Z

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA					
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>
	Diameter	* Minimum Depth	Concrete cu. yds. (1)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)															
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/2"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/2"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 7/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 7/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

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

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—	—	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	—	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	—	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



**ELEVATION**  
**GROUND LINE & STUB POST**

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

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

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

BAW-A-2

6/01/2007

**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST TABLES**

**SIGNING DETAIL  
FAI-72, MACARTHUR BLVD**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	253
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

\* (84-9) RS-6; (G)Z

**GENERAL NOTES**

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

One foundation requires 0.7 cubic yards of concrete and 46 pounds of reinforcement bars and spiral hoops.

LOADING: 80 mph wind with 30% gust factor, normal to sign.

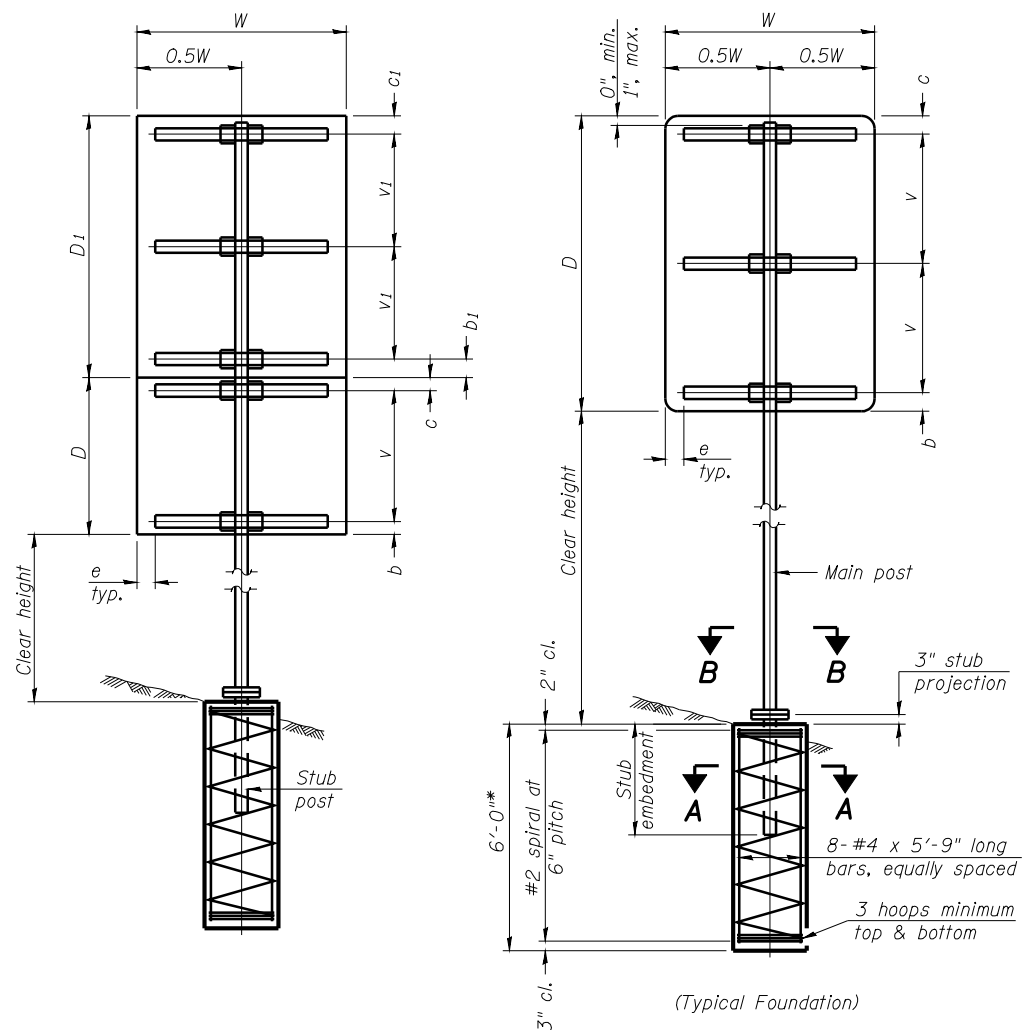
DESIGN STRESSES:  
Structural steel - 20,000 psi  
Reinforcing steel - 20,000 psi  
Concrete - 1,400 psi  
Footing soil pressure - 2,000 psf

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

For Sections A-A and B-B, see Base Sheet BAT-A-2.

FOUNDATIONS:  
All necessary excavation or drilling (except in rock); backfilling with excavated material; disposal of unsuitable or surplus material; formwork; and furnishing and placing the Class SI Concrete and reinforcement bars, shall be included in the pay item used for foundations.

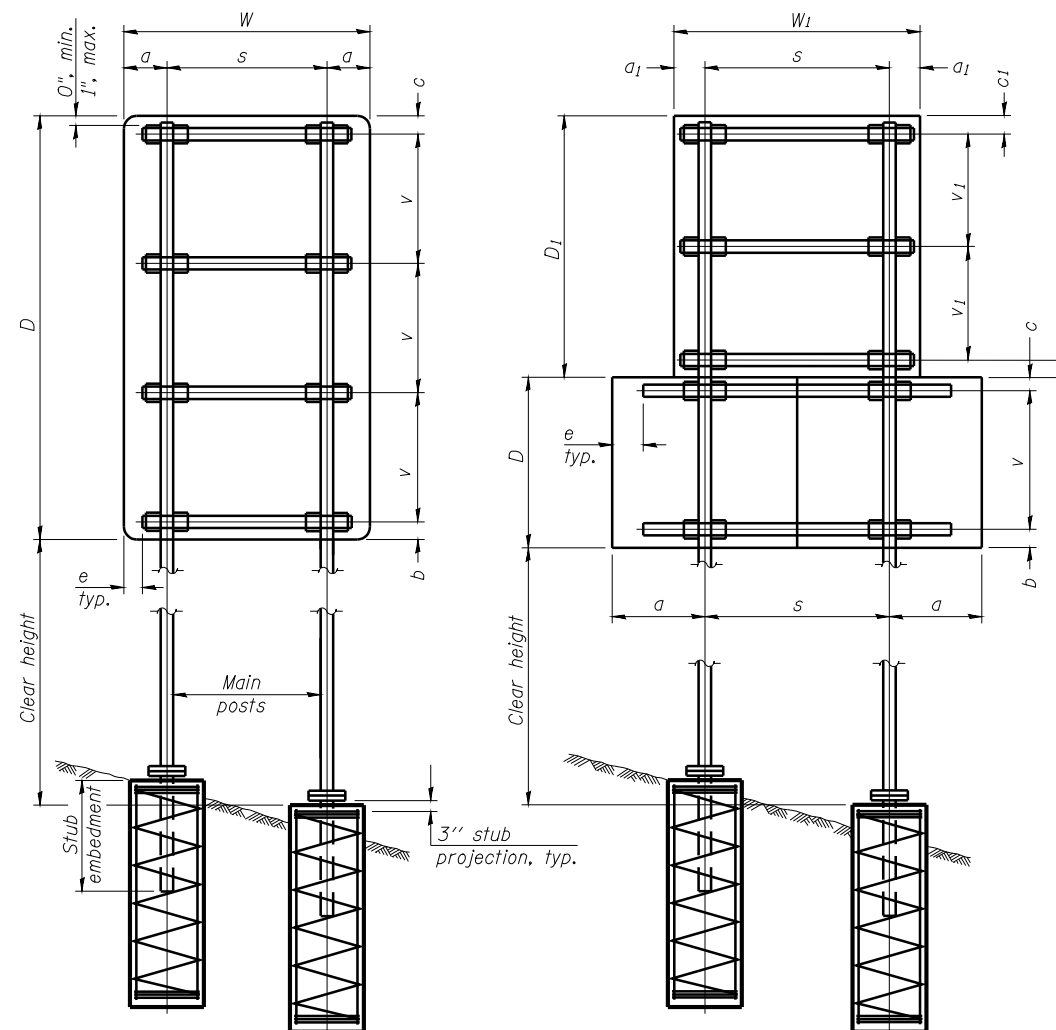
The measurement of the tubular steel shall be computed on the basis of the weight per foot of the support, multiplied by the combined length of the main posts and stub posts.



**SINGLE POST ASSEMBLY EXAMPLES**

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

a or a<sub>1</sub> = 6" min. to 2'-0" max. (Approximately 0.2W or 0.2W<sub>1</sub>)  
b or b<sub>1</sub> = 3" min. to 4" max  
c or c<sub>1</sub> = 3" min. to 4" max  
e = 0" min. to 6" max  
s = 3'-0" min. to 6'-0" max. (Approximately 0.6W or 0.6W<sub>1</sub>)  
v or v<sub>1</sub> = 2'-0" min. to 2'-11" max.



**DUAL POST ASSEMBLY EXAMPLES**

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	20
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

MAIN POST STEEL TUBING	WEIGHT PER FOOT (POUND)	STUB POST TABLE		MAIN POST TABLE				
		Stub Embedment	Stub Post Length	Bolt Size	A	t	R	Bolt Circle
3" x 2" x 1/4"	7.11	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 2" x 1/4"	8.81	2'-0"	2'-3"	1/2" x 2 3/4"	8 1/4"	5/8"	9/32"	6 1/2"
4" x 3" x 1/4"	10.51	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
5" x 3" x 1/4"	12.21	2'-3"	2'-6"	5/8" x 3 1/4"	10"	3/4"	11/32"	8"
6" x 3" x 1/4"	13.91	2'-3"	2'-6"	5/8" x 3 1/4"	11 1/2"	3/4"	11/32"	9 1/2"
6" x 4" x 1/4"	15.62	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	13/32"	9 1/2"
6" x 4" x 5/16"	19.08	2'-3"	2'-6"	3/4" x 3 1/2"	11 1/2"	3/4"	13/32"	9 1/2"
7" x 5" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	13/32"	1'-0"
8" x 4" x 1/4"	19.02	2'-6"	2'-9"	3/4" x 3 1/2"	1'-2"	3/4"	13/32"	1'-0"
8" x 6" x 1/4"	22.42	2'-6"	2'-9"	7/8" x 3 1/2"	1'-2"	3/4"	15/32"	1'-0"

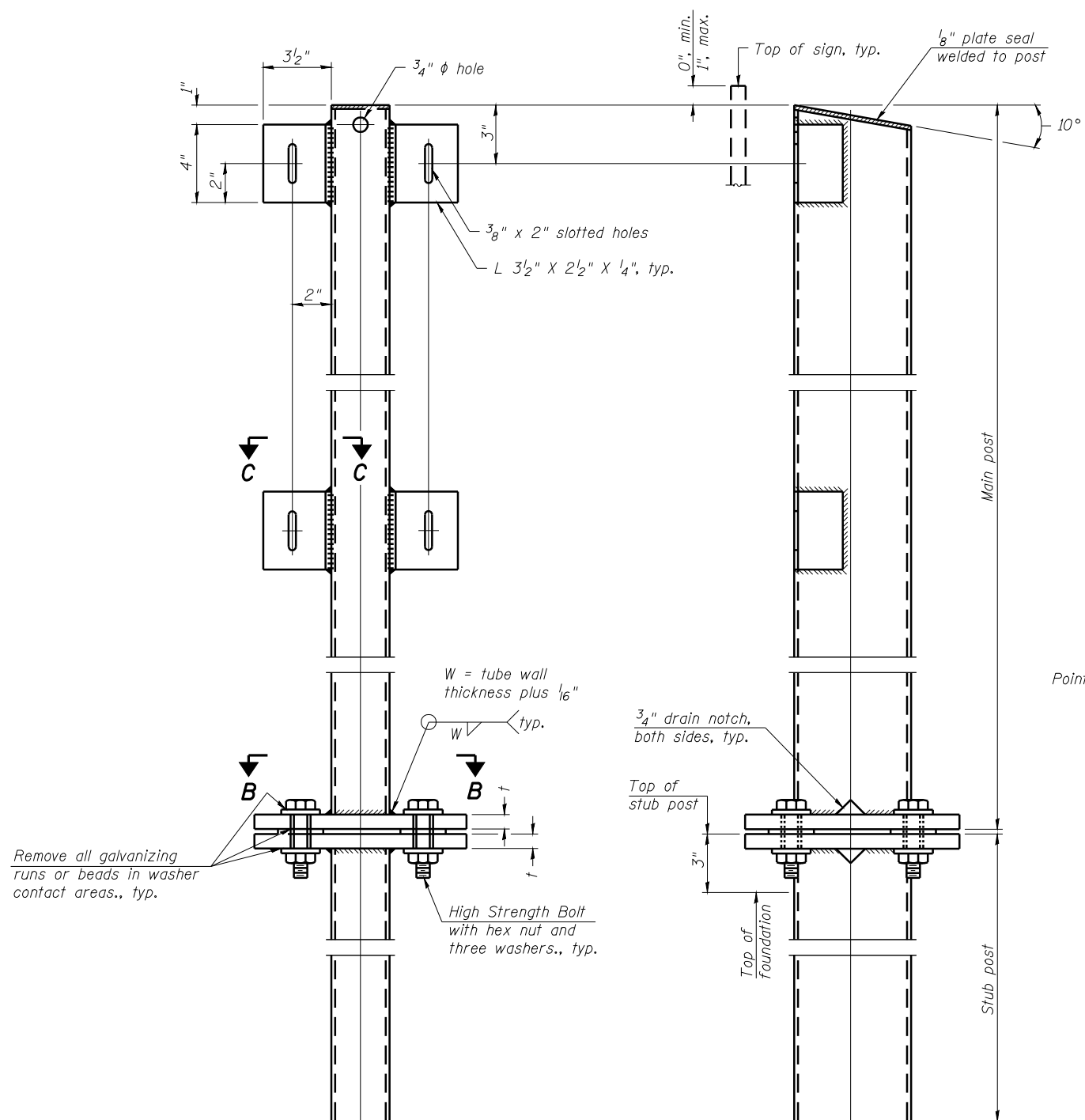
**BREAK-AWAY TUBULAR STEEL SIGN POSTS AND FOUNDATIONS**

**SIGNING DETAIL  
FAI-72, MACARTHUR BLVD**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	254
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

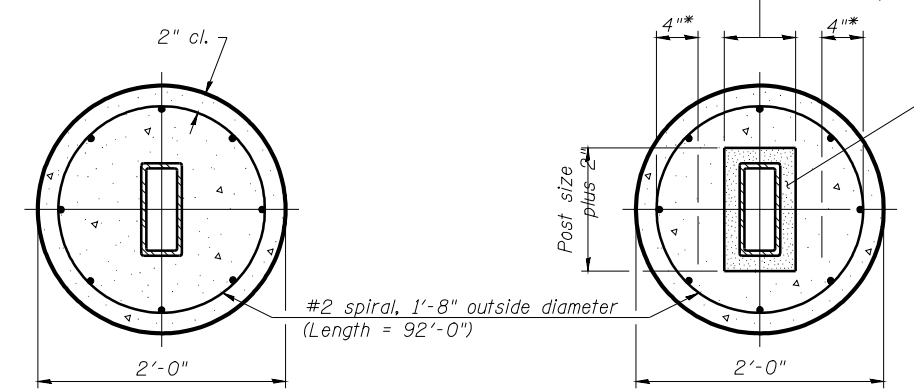
\*(84-9) RS-6; (G)Z



**FRONT ELEVATION**

**SIDE ELEVATION**

**MAIN POST & STUB POST**

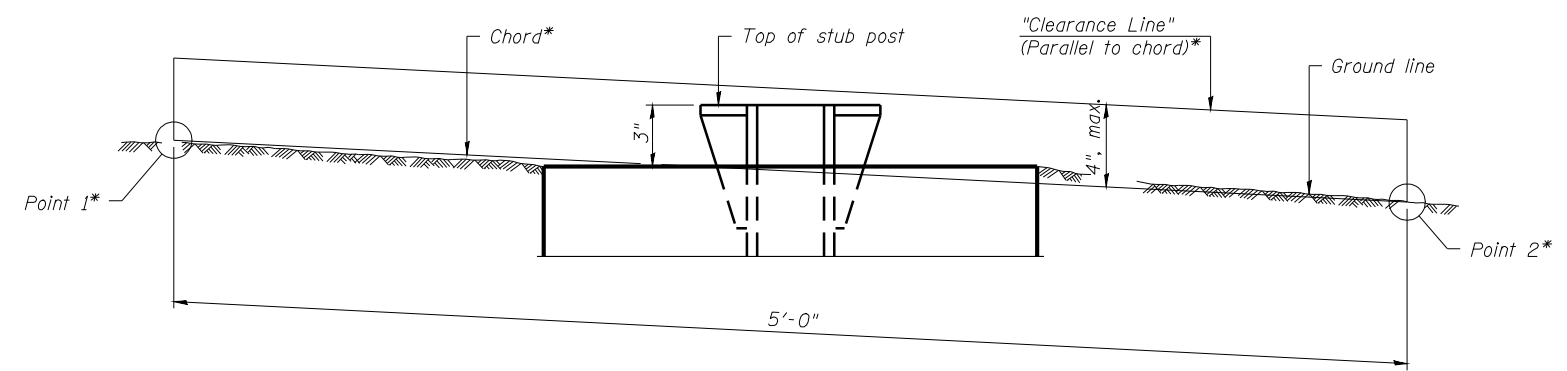


**SECTION A-A (CAST-IN-PLACE)**

OR

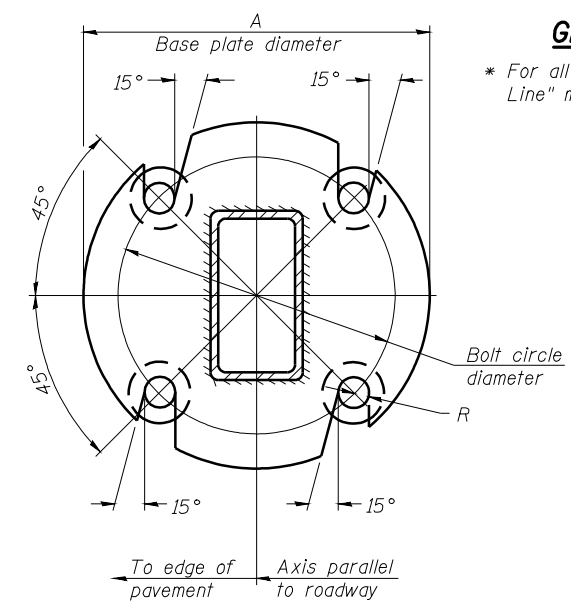
**SECTION A-A (PRECAST)**

\* Hot dip galvanized lifting loops or inserts may be placed in precast foundation inside the spiral reinforcement but not within 6" of the long axis of the post. Inserts must be adequate for safely lifting a total of 3,000 pounds and must not interfere with installation of the stub post or proper functioning of the slip base.

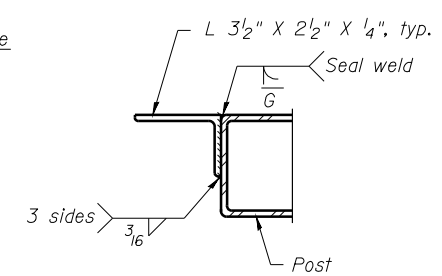


**ELEVATION GROUND LINE & STUB POST**

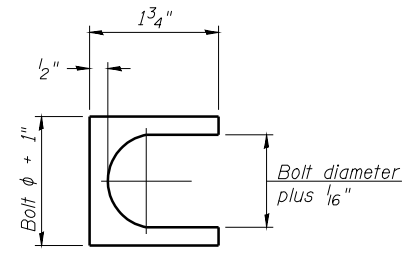
\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.



**SECTION B-B**



**SECTION C-C**



**SHIM DETAIL**

**BREAK-AWAY TUBULAR STEEL SIGN POSTS AND DETAILS**

**SIGNING DETAIL**  
FAI-72, MACARTHUR BLVD

(Sheet 2 of 2)

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	255
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
* (84-9)RS-6; (G)Z				

**TRAFFIC SIGNAL PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		TEMPORARY SIGNAL HEAD
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN PUSHBUTTON DETECTOR
		DETECTOR LOOP
		QUADRAPOLE DETECTOR LOOP
		SIGNAL POST
		ALUMINUM MAST ARM ASSEMBLY AND POLE
		STEEL MAST ARM ASSEMBLY AND POLE
		WOOD POLE
		WOOD POLE WITH GUY
		SERVICE INSTALLATION
		CONTROLLER
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		JUNCTION BOX
		GULFBOX JUNCTION
		AERIAL CABLE
		CONDUIT
		CONDUIT SPLICE
		SPAN WIRE / TETHER WIRE
		21 SIDEWALK REMOVAL IN SQ FT
		9 PC CONC SDWLK 4 IN. IN SQ FT
		12 PC CONC SDWLK 4 IN. SPECIAL IN SQ FT

LENGTH - CONSTRUCTION (T=TRENCH P=PUSHED A=AUGERED E=EXISTING)  
 SIZE - TYPE (S=STEEL P=PVC F=FIBER DUCT U=UNI-DUCT)

**TRAFFIC SIGNAL WIRING DIAGRAM LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		8" SIGNAL SECTION
		DIRECTIONAL SIGNAL SECTION
		9" PEDESTRIAN SIGNAL FACE
		12" PEDESTRIAN SIGNAL FACE
		SIGNAL FACE WITH BACKPLATE
		PROGRAMMED SIGNAL SECTION
		SIGNAL SECTION WITH LOUVRE
		DUAL-INDICATION SIGNAL SECTION
		INDUCTION DETECTOR LOOP
		QUADRAPOLE DETECTOR LOOP
		DIRECT-CONNECTED LOOP LEAD-IN ( TWISTED )
		ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS
		ELECTRIC CABLE TO BE REMOVED
		ELECTRIC CABLE IDENTIFIER TAPE CODES (R= RED W= WHITE Y= YELLOW G= GREEN B= BLUE O= ORANGE)
		PEDESTRIAN PUSHBUTTON DETECTOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC SIGNAL LEGEND**  
 MACARTHUR BLVD  
 SANGAMON COUNTY

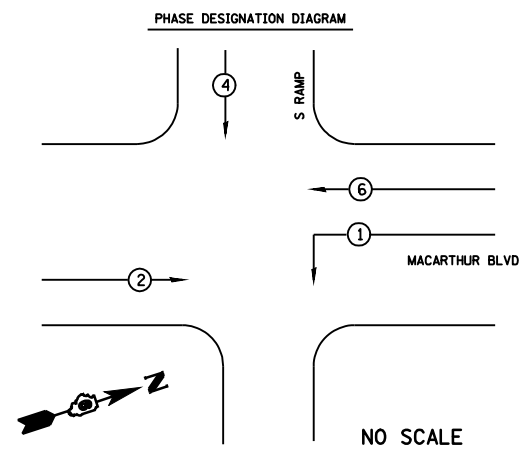
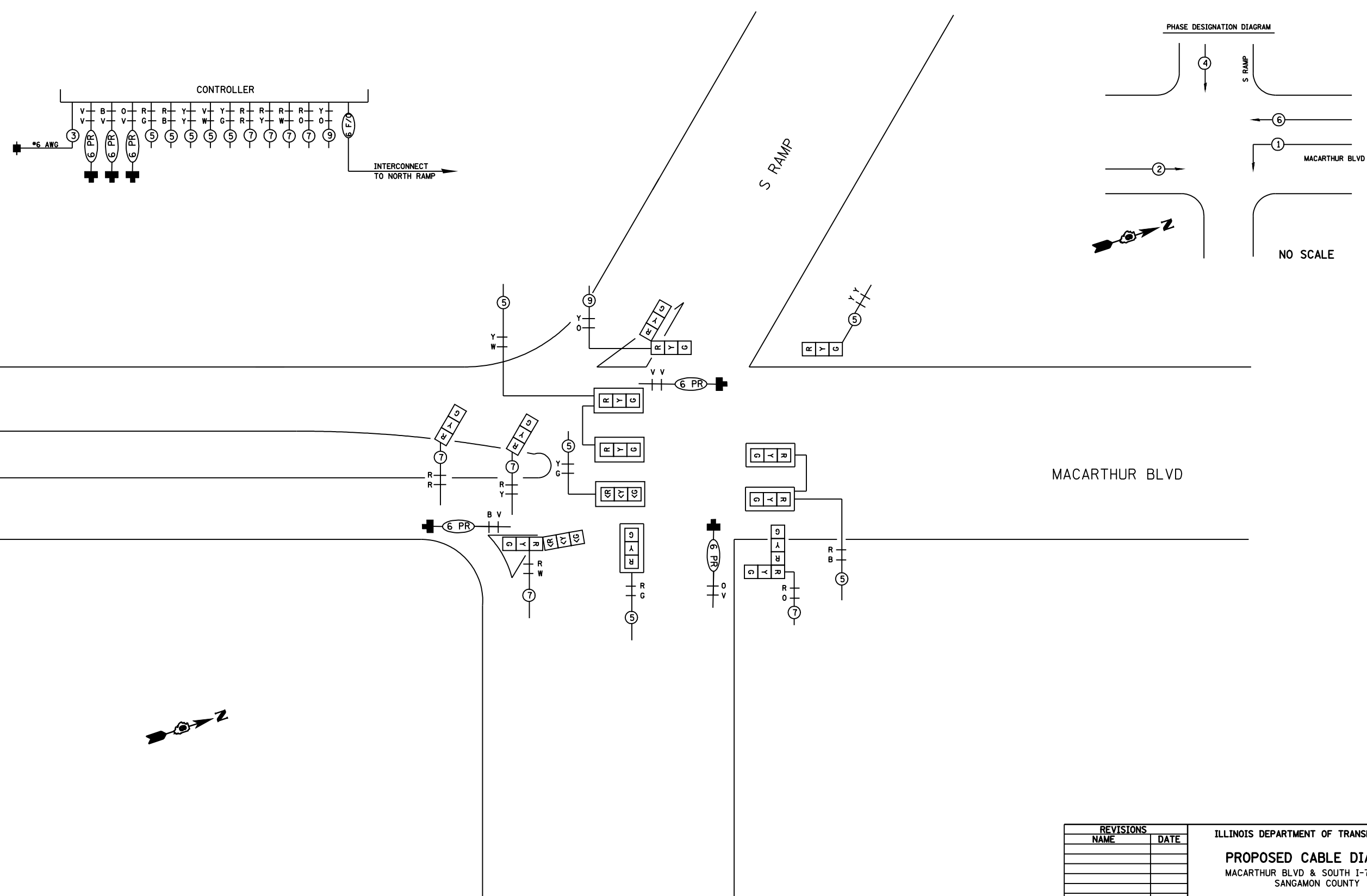
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 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

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 CHECKED BY IDOT

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DRAWN	IDOT	007/07/06
REVIEWED	IDOT	007/07/06

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	256
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (84-9)RS-6; (G)Z				



MACARTHUR BLVD

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PROPOSED CABLE DIAGRAM**

MACARTHUR BLVD & SOUTH I-72 RAMPS  
SANGAMON COUNTY

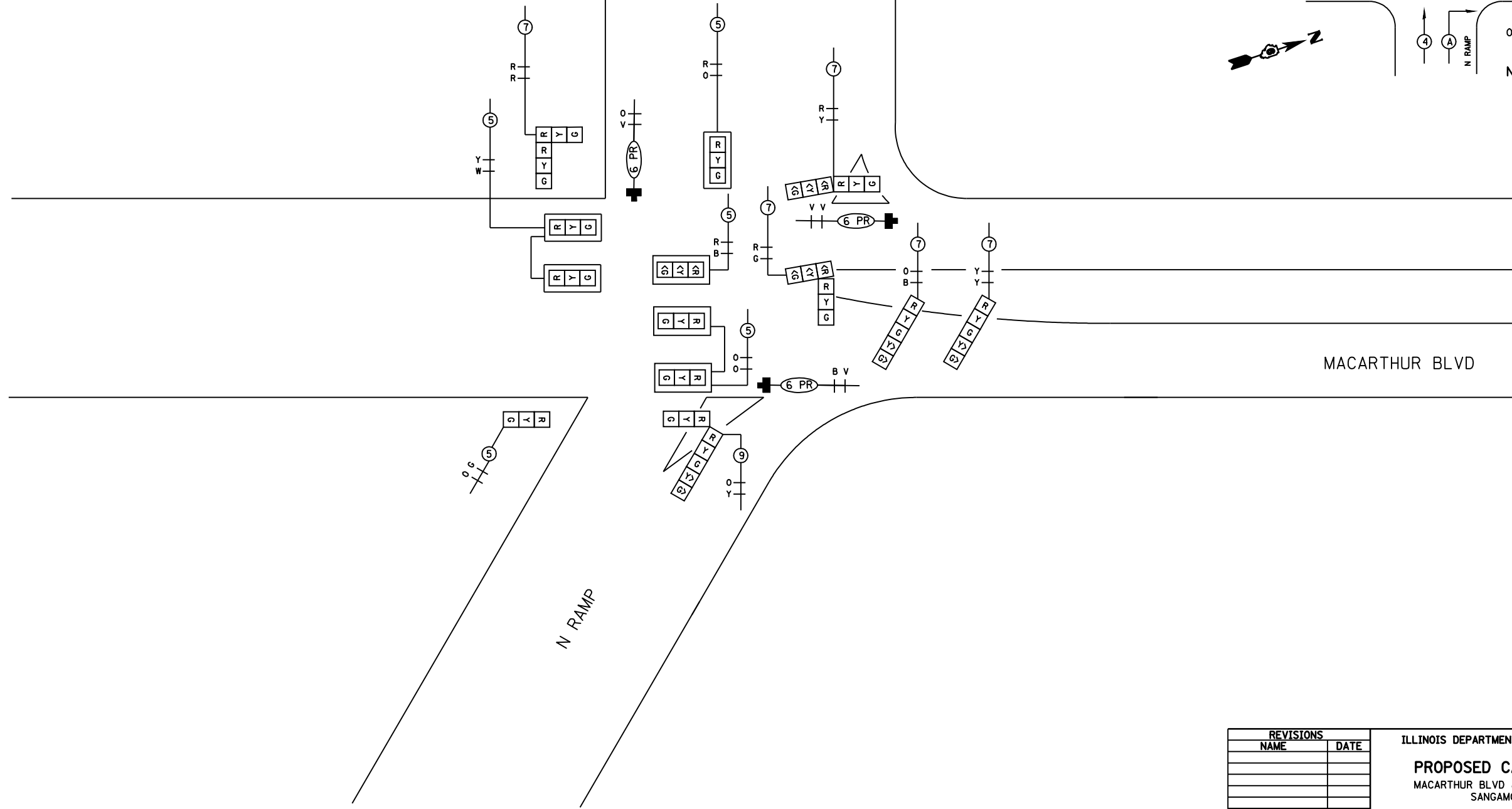
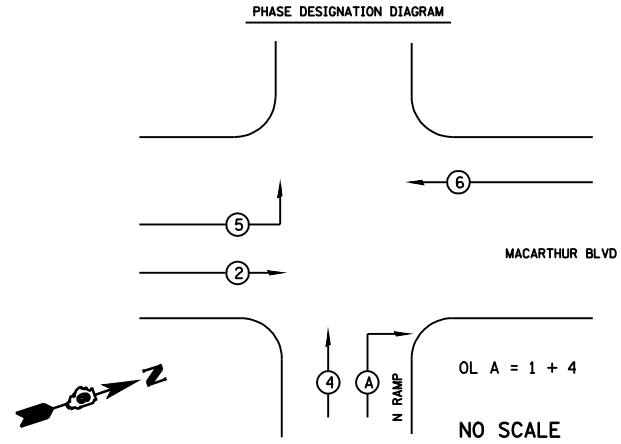
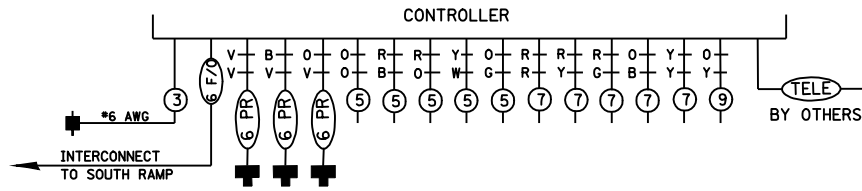
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DATE    DEC. 2004

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REVIEWED	IDOT	007/07/06

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	257
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (84-9)RS-6; (G)Z				



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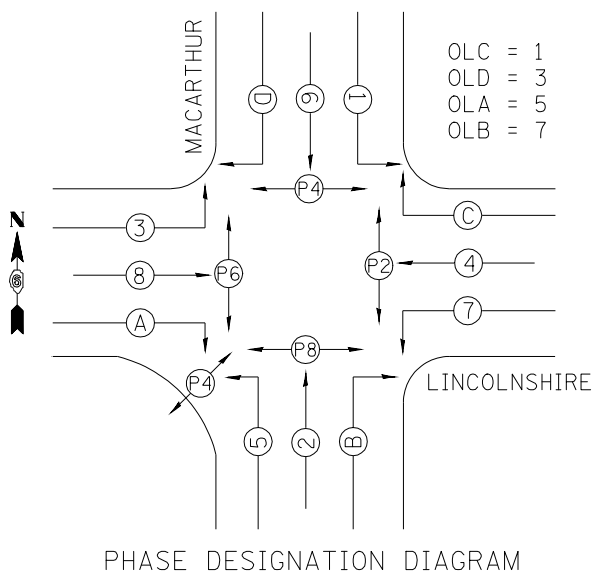
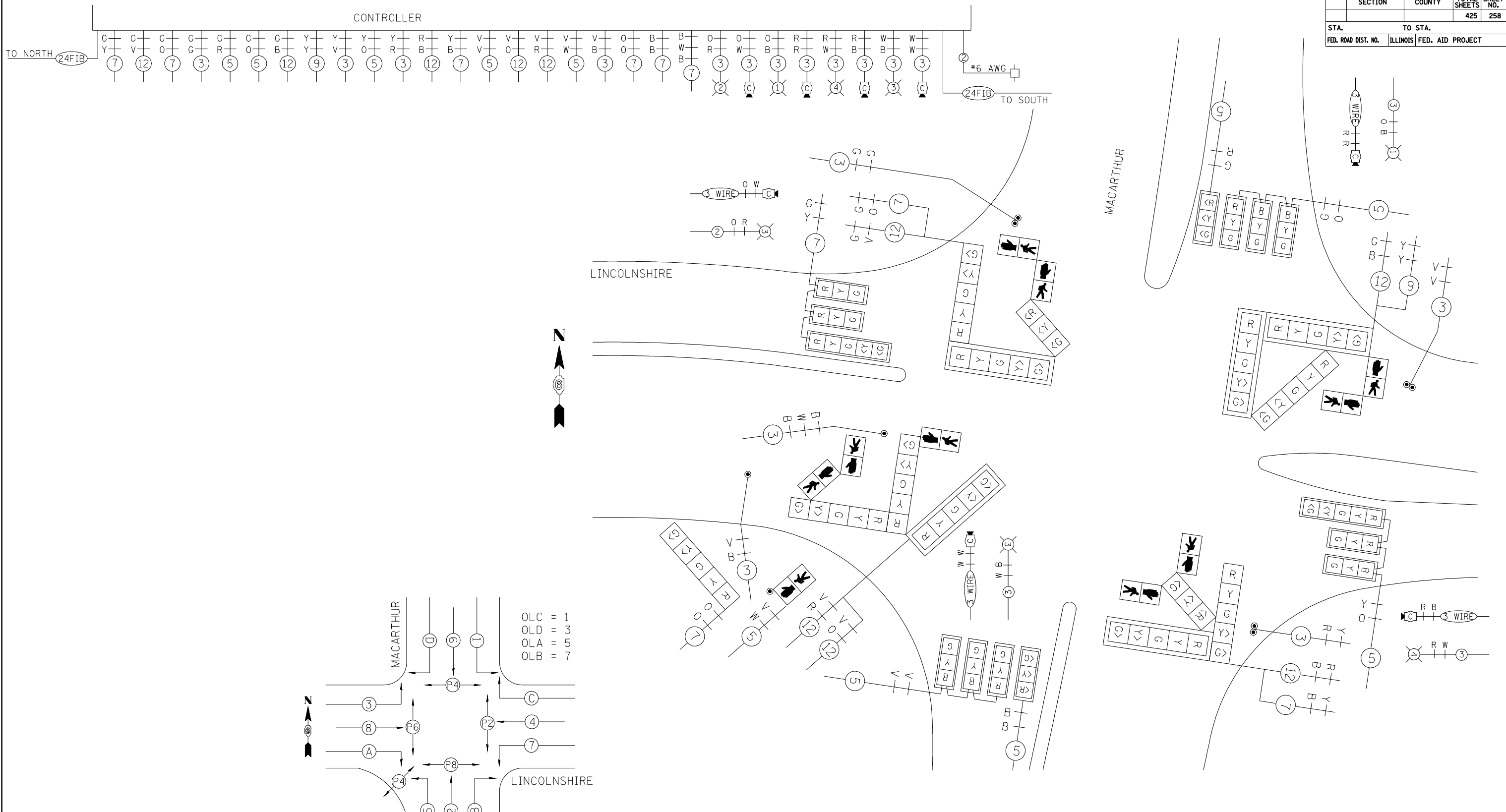
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DRAWN	IDOT	007/07/06
REVIEWED	IDOT	007/07/06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED CABLE DIAGRAM**  
 MACARTHUR BLVD & NORTH I-72 RAMPS  
 SANGAMON COUNTY

SCALE: VERT.     DRAWN BY KDA  
 HORIZ.     CHECKED BY IDOT  
 DATE DEC. 2004

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		425	258
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

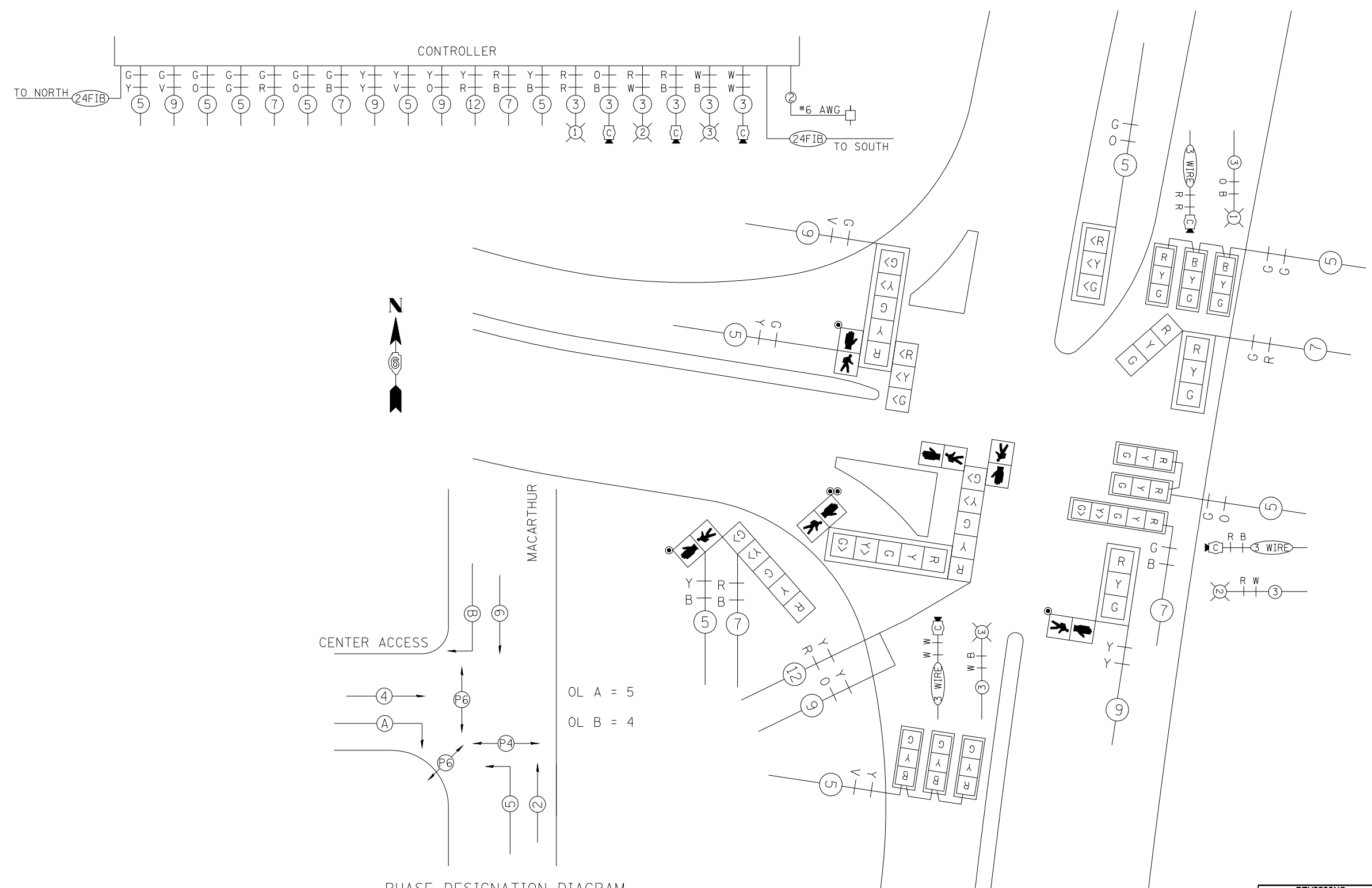
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED CABLE DIAGRAM**  
 MACARTHUR BLVD & LINCOLNSHIRE BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	259
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



REVISIONS	
NAME	DATE

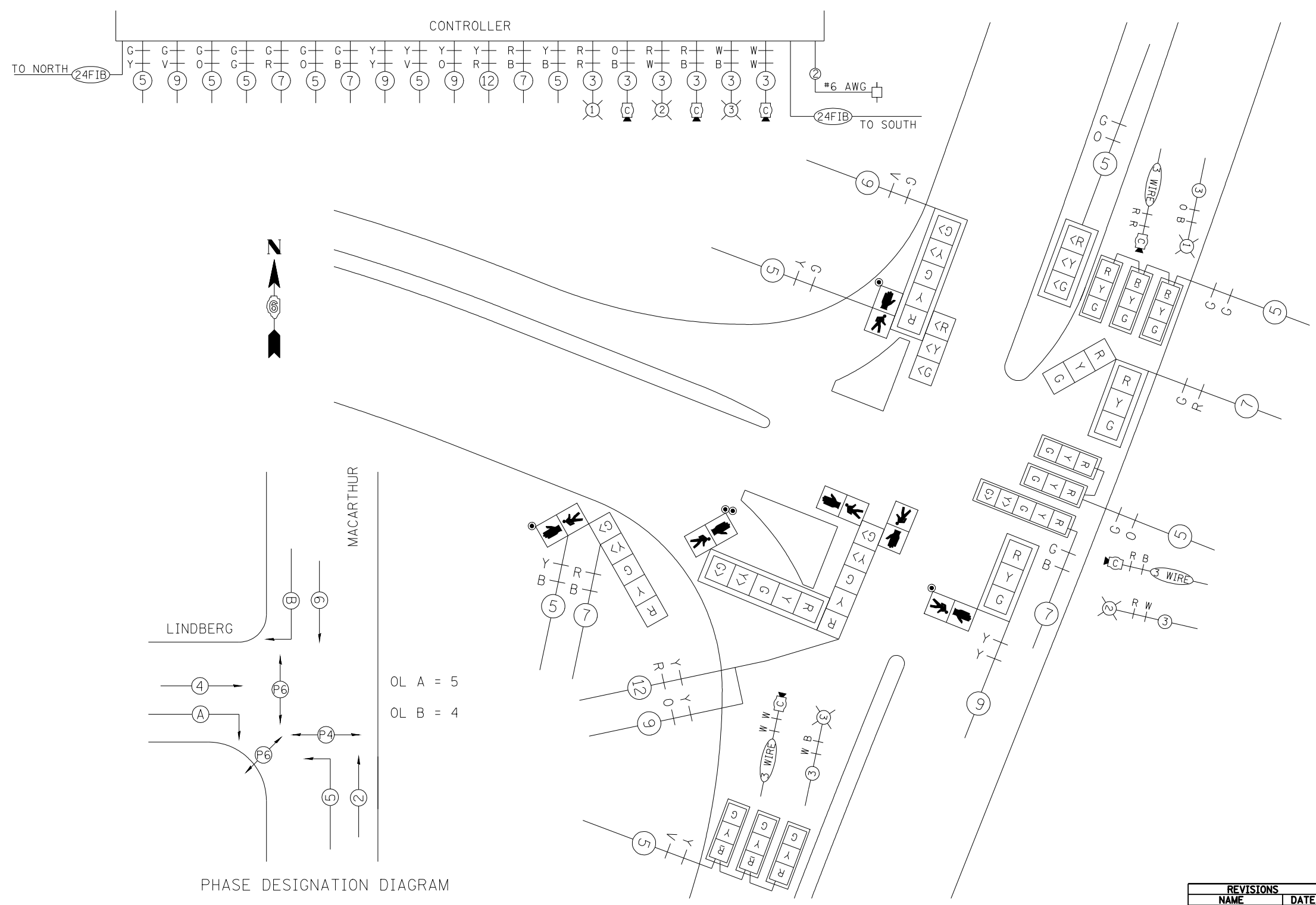
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED CABLE DIAGRAM**  
 MACARTHUR BLVD & CENTER ACCESS  
 SANGAMON COUNTY

SCALE: VERT. / HORIZ.  
 DATE

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 CHECKED BY IDOT

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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	260
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



PHASE DESIGNATION DIAGRAM

OL A = 5  
OL B = 4

REVISIONS	
NAME	DATE

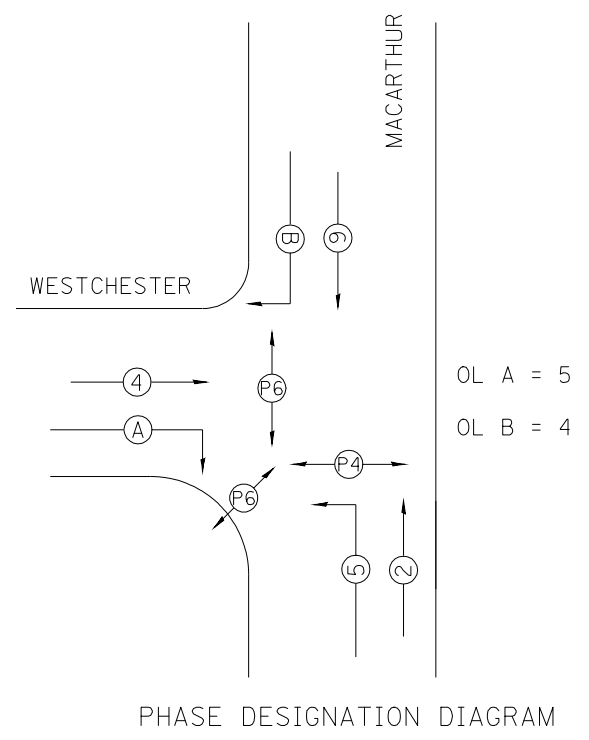
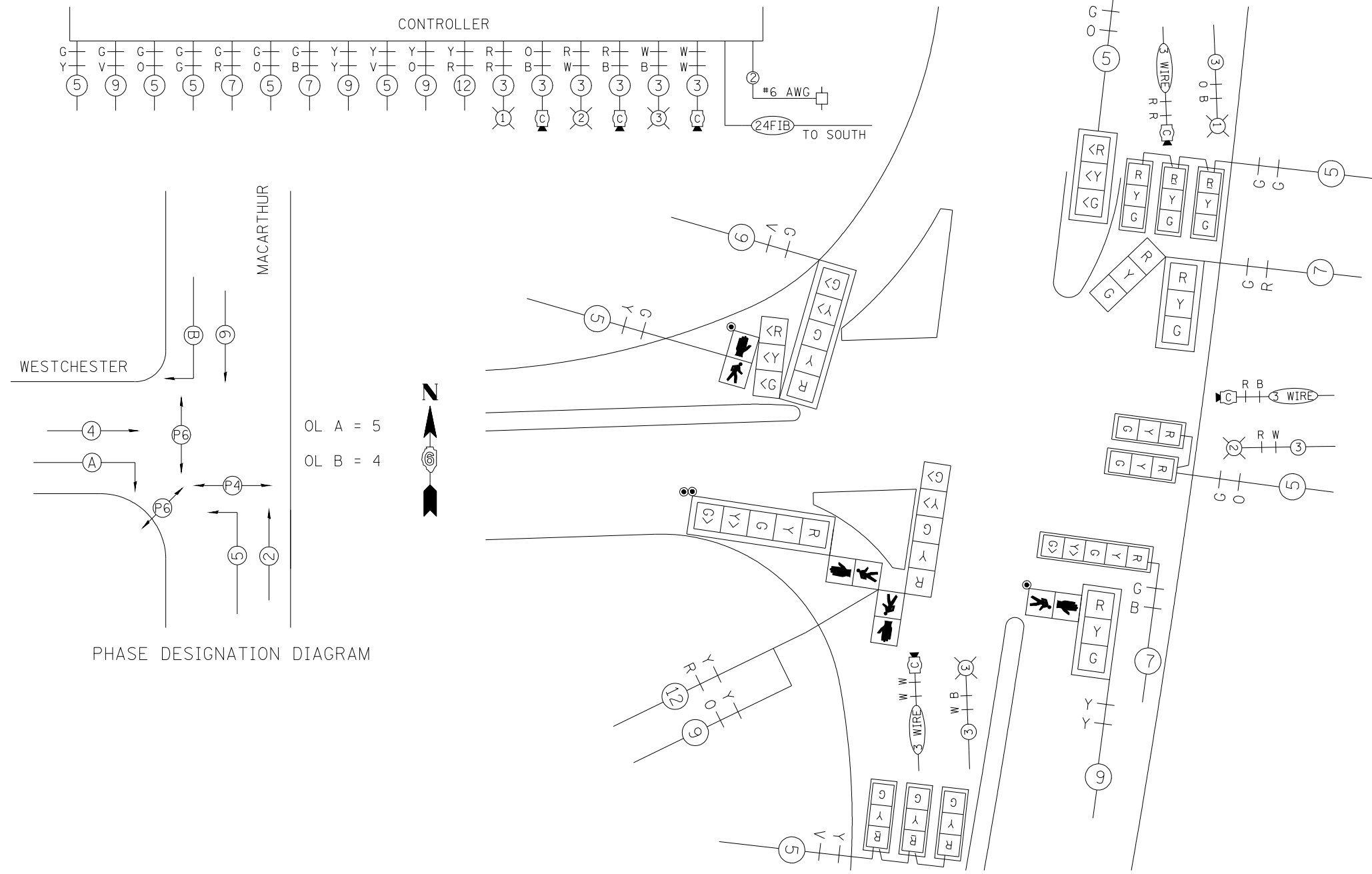
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED CABLE DIAGRAM**  
 MACARTHUR BLVD & LINDBERG BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	261
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED CABLE DIAGRAM**  
 MACARTHUR BLVD & WESTCHESTER BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

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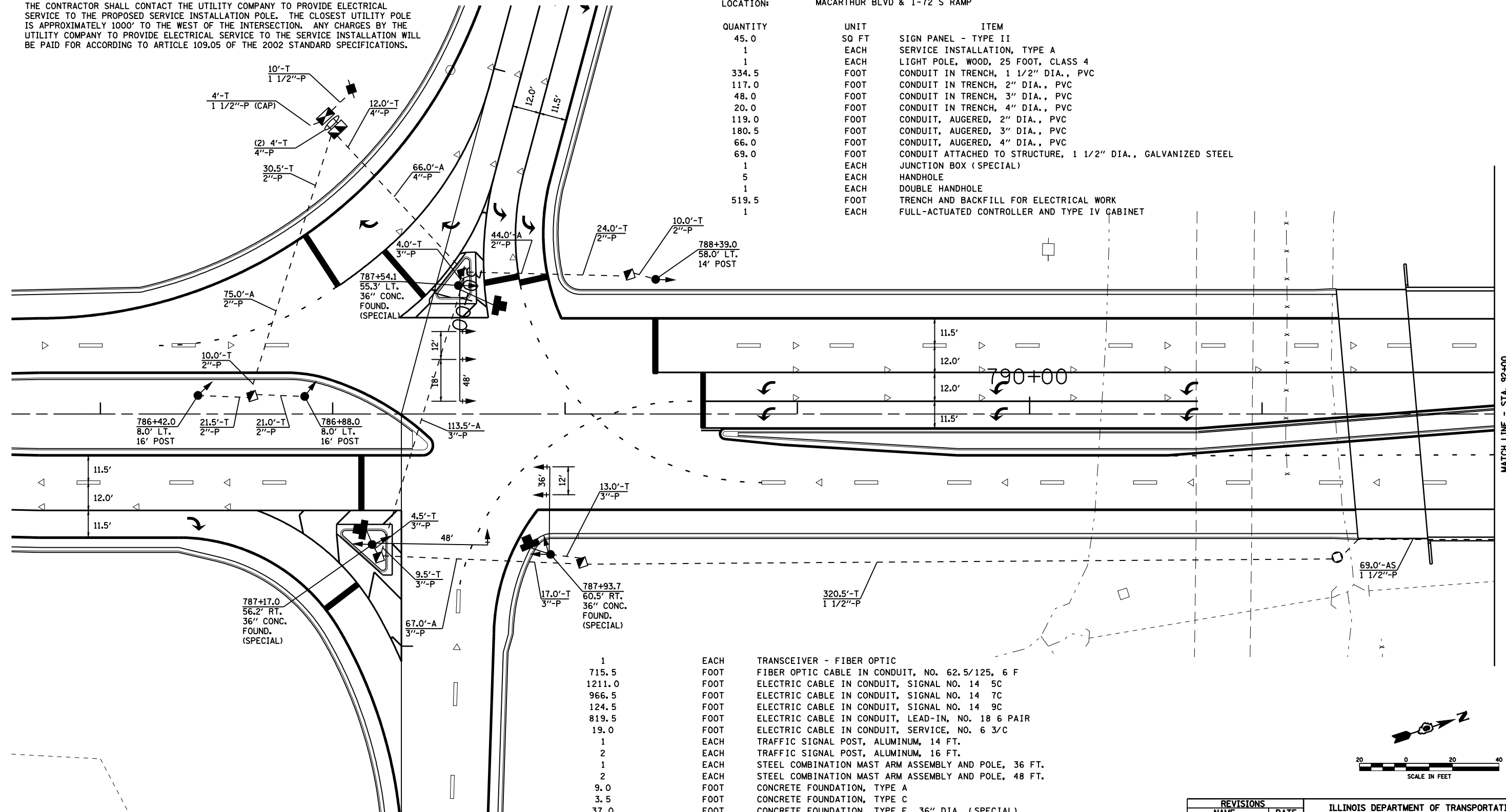
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	263
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (84-9)RS-6; (G)Z				

TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER.

THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO PROVIDE ELECTRICAL SERVICE TO THE PROPOSED SERVICE INSTALLATION POLE. THE CLOSEST UTILITY POLE IS APPROXIMATELY 1000' TO THE WEST OF THE INTERSECTION. ANY CHARGES BY THE UTILITY COMPANY TO PROVIDE ELECTRICAL SERVICE TO THE SERVICE INSTALLATION WILL BE PAID FOR ACCORDING TO ARTICLE 109.05 OF THE 2002 STANDARD SPECIFICATIONS.

TRAFFIC SIGNAL QUANTITIES

LOCATION:	QUANTITY	UNIT	ITEM
MACARTHUR BLVD & I-72 S RAMP	45.0	SQ FT	SIGN PANEL - TYPE II
	1	EACH	SERVICE INSTALLATION, TYPE A
	1	EACH	LIGHT POLE, WOOD, 25 FOOT, CLASS 4
	334.5	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
	117.0	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
	48.0	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC
	20.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
	119.0	FOOT	CONDUIT, AUGERED, 2" DIA., PVC
	180.5	FOOT	CONDUIT, AUGERED, 3" DIA., PVC
	66.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
	69.0	FOOT	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL
	1	EACH	JUNCTION BOX (SPECIAL)
	5	EACH	HANDHOLE
	1	EACH	DOUBLE HANDHOLE
	519.5	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET



1	EACH	TRANSCEIVER - FIBER OPTIC
715.5	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6 F
1211.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
966.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
124.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 9C
819.5	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 6 PAIR
19.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3/C
1	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.
9.0	FOOT	CONCRETE FOUNDATION, TYPE A
3.5	FOOT	CONCRETE FOUNDATION, TYPE C
37.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA. (SPECIAL)
6	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	VIDEO VEHICLE DETECTION SYSTEM
6	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, STANDARD
1218.0	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1/C (GREEN)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD & SOUTH I-72 RAMPS  
 SANGAMON COUNTY

SCALE: VERT. DEC. 2004  
 HORIZ.  
 DATE

DRAWN BY KDA  
 CHECKED BY IDOT

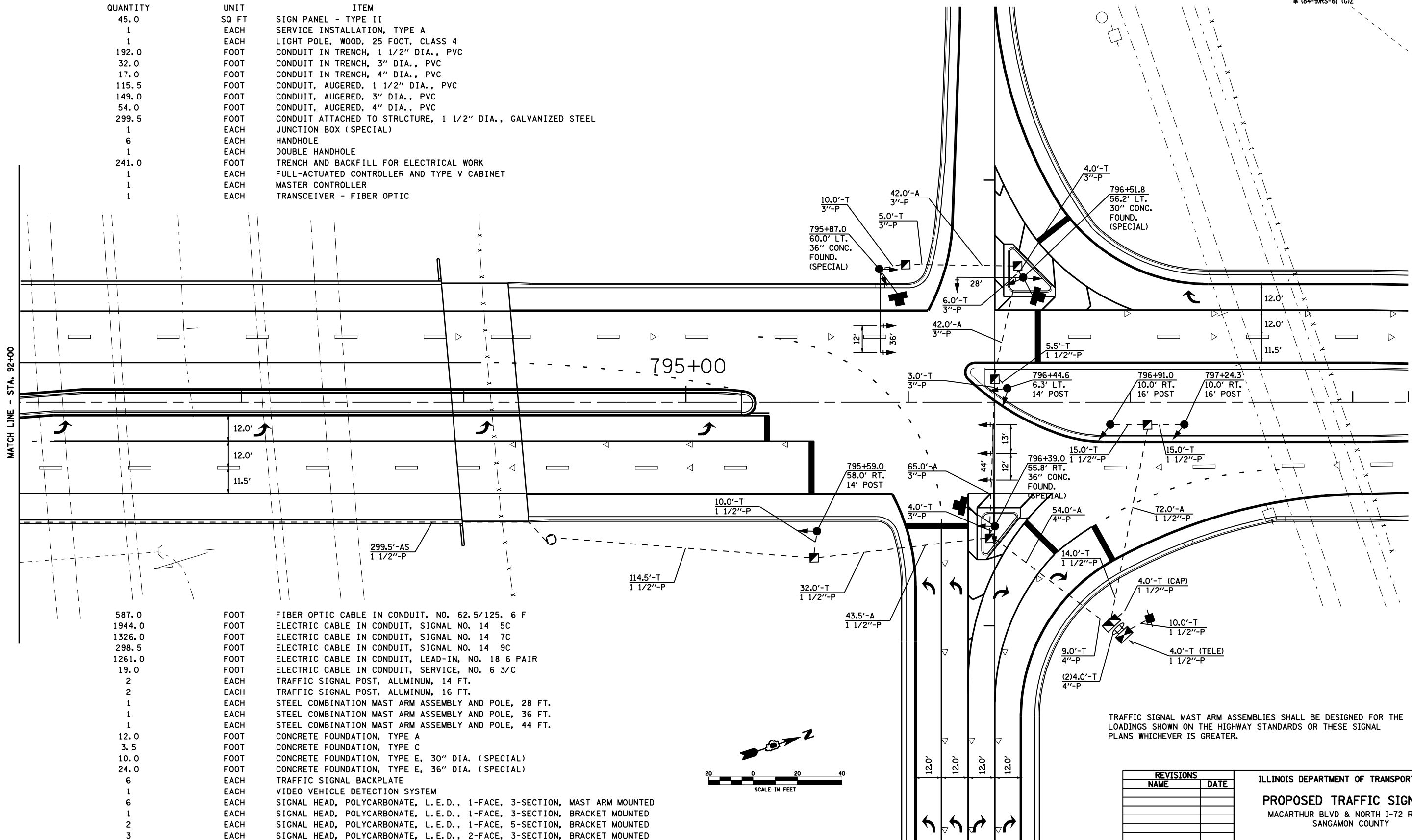
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TRAFFIC SIGNAL QUANTITIES

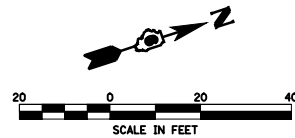
LOCATION: MACARTHUR BLVD & I-72 N RAMP

QUANTITY	UNIT	ITEM
45.0	SQ FT	SIGN PANEL - TYPE II
1	EACH	SERVICE INSTALLATION, TYPE A
1	EACH	LIGHT POLE, WOOD, 25 FOOT, CLASS 4
192.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
32.0	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC
17.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
115.5	FOOT	CONDUIT, AUGERED, 1 1/2" DIA., PVC
149.0	FOOT	CONDUIT, AUGERED, 3" DIA., PVC
54.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
299.5	FOOT	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL
1	EACH	JUNCTION BOX (SPECIAL)
6	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
241.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET
1	EACH	MASTER CONTROLLER
1	EACH	TRANSCEIVER - FIBER OPTIC

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	264
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* (84-9)RS-6; (G)Z				



TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER.



587.0	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6 F
1944.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1326.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
298.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 9C
1261.0	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 6 PAIR
19.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3/C
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.
12.0	FOOT	CONCRETE FOUNDATION, TYPE A
3.5	FOOT	CONCRETE FOUNDATION, TYPE C
10.0	FOOT	CONCRETE FOUNDATION, TYPE E, 30" DIA. (SPECIAL)
24.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA. (SPECIAL)
6	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	VIDEO VEHICLE DETECTION SYSTEM
6	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, STANDARD
1225.0	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1/C (GREEN)

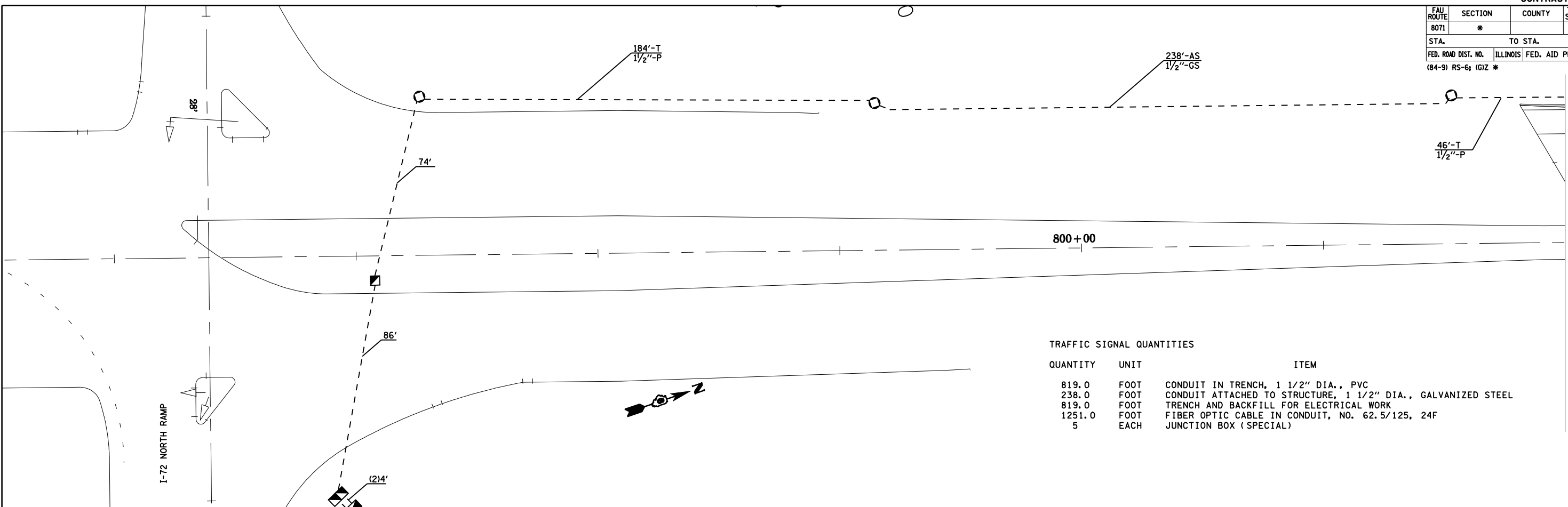
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD & NORTH I-72 RAMPS  
 SANGAMON COUNTY

SCALE: VERT. DATE: HORIZ. DEC. 2004  
 DRAWN BY: KDA  
 CHECKED BY: IDOT

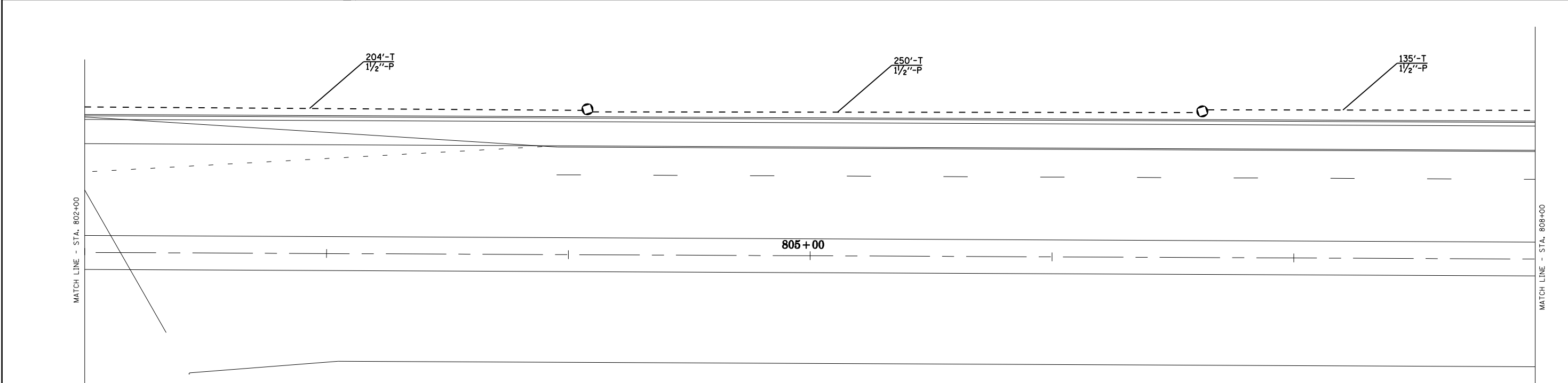
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REVIEWED	IDOT	06/07/06

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	265
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				

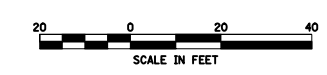


TRAFFIC SIGNAL QUANTITIES

QUANTITY	UNIT	ITEM
819.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
238.0	FOOT	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL
819.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1251.0	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F
5	EACH	JUNCTION BOX (SPECIAL)



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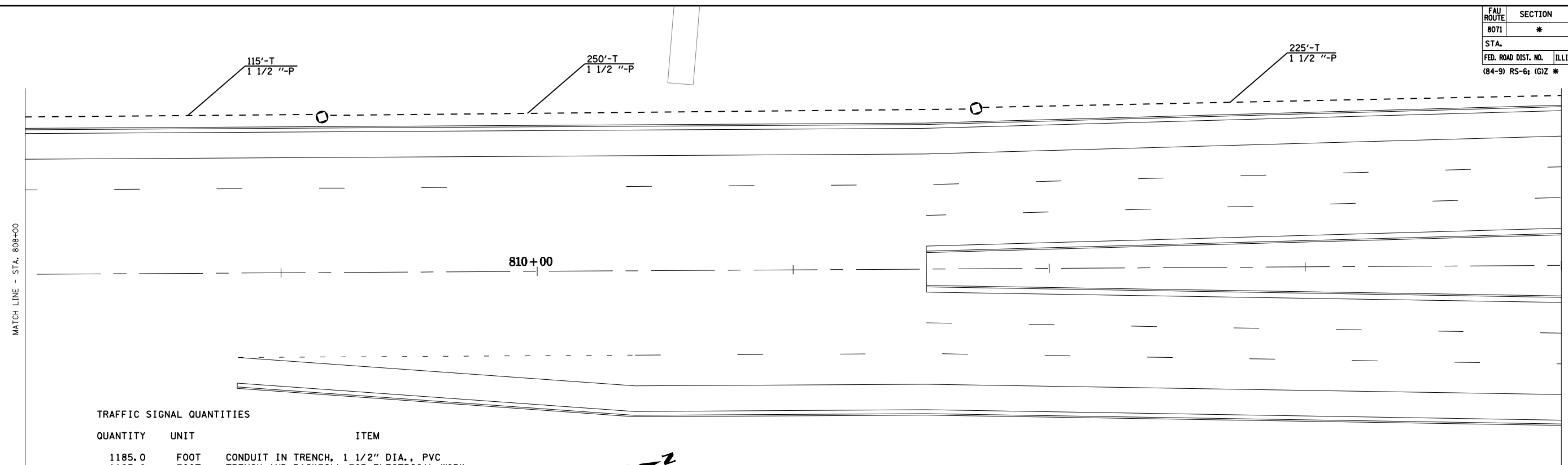
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROPOSED TRAFFIC SIGNALS  
 MACARTHUR BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

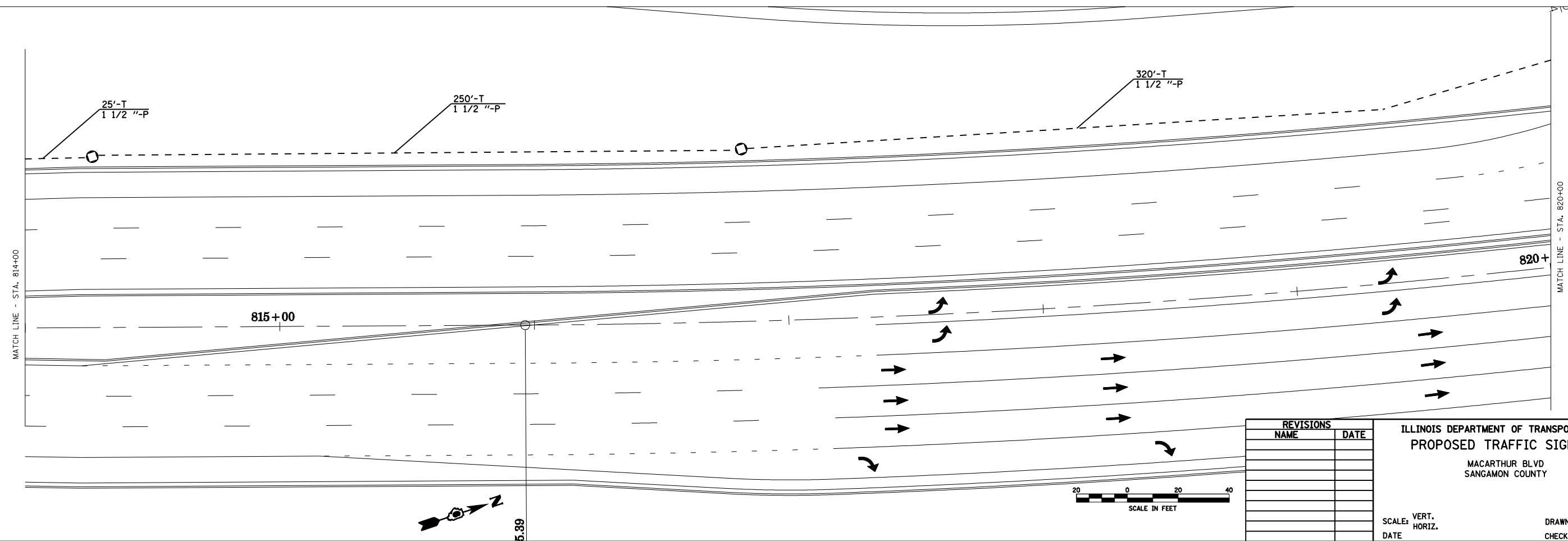
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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	266
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; IGIZ *				



TRAFFIC SIGNAL QUANTITIES

QUANTITY	UNIT	ITEM
1185.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
1185.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1938.0	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F
4	EACH	JUNCTION BOX (SPECIAL)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY IDOT  
 CHECKED BY IDOT



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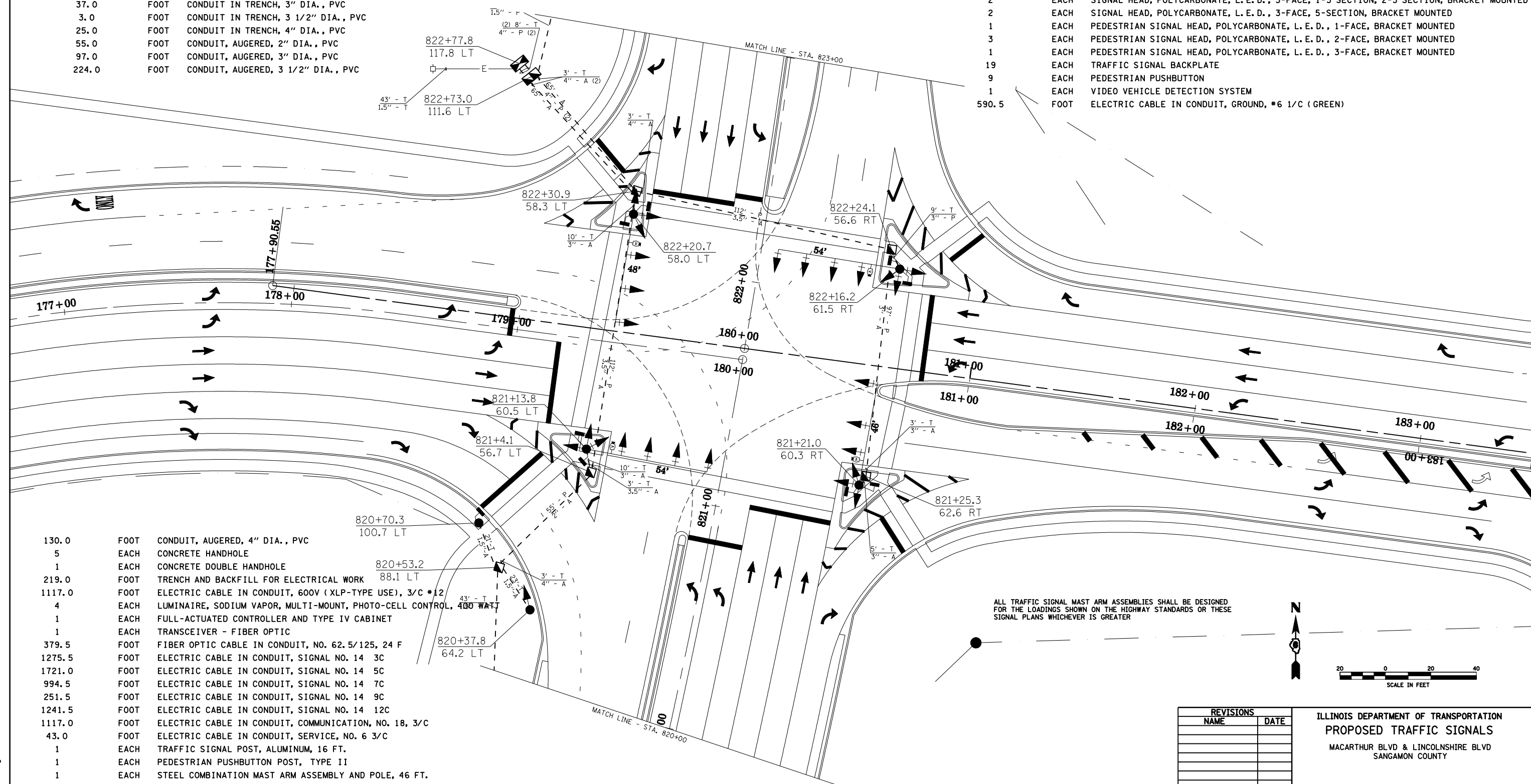
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	267
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				

TRAFFIC SIGNAL QUANTITIES

LOCATION: MACARTHUR BLVD & LINCOLNSHIRE

QUANTITY	UNIT	ITEM
64.0	SO FT	SIGN PANEL - TYPE II
1	EACH	SERVICE INSTALLATION, TYPE A
1	EACH	LIGHT POLE, WOOD, 25 FOOT, CLASS 4
154.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
37.0	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC
3.0	FOOT	CONDUIT IN TRENCH, 3 1/2" DIA., PVC
25.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
55.0	FOOT	CONDUIT, AUGERED, 2" DIA., PVC
97.0	FOOT	CONDUIT, AUGERED, 3" DIA., PVC
224.0	FOOT	CONDUIT, AUGERED, 3 1/2" DIA., PVC

6.0	FOOT	CONCRETE FOUNDATION, TYPE A
3.5	FOOT	CONCRETE FOUNDATION, TYPE D
56.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA.
12	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 3-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, BRACKET MOUNTED
3	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 3-FACE, BRACKET MOUNTED
19	EACH	TRAFFIC SIGNAL BACKPLATE
9	EACH	PEDESTRIAN PUSHBUTTON
1	EACH	VIDEO VEHICLE DETECTION SYSTEM
590.5	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, #6 1/C (GREEN)



ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER



130.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
5	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
219.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1117.0	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3/C *12
4	EACH	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 400 WATT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1	EACH	TRANSCIEVER - FIBER OPTIC
379.5	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24 F
1275.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1721.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
994.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
251.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 9C
1241.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 12C
1117.0	FOOT	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18, 3/C
43.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3/C
1	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	PEDESTRIAN PUSHBUTTON POST, TYPE II
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 54 FT.

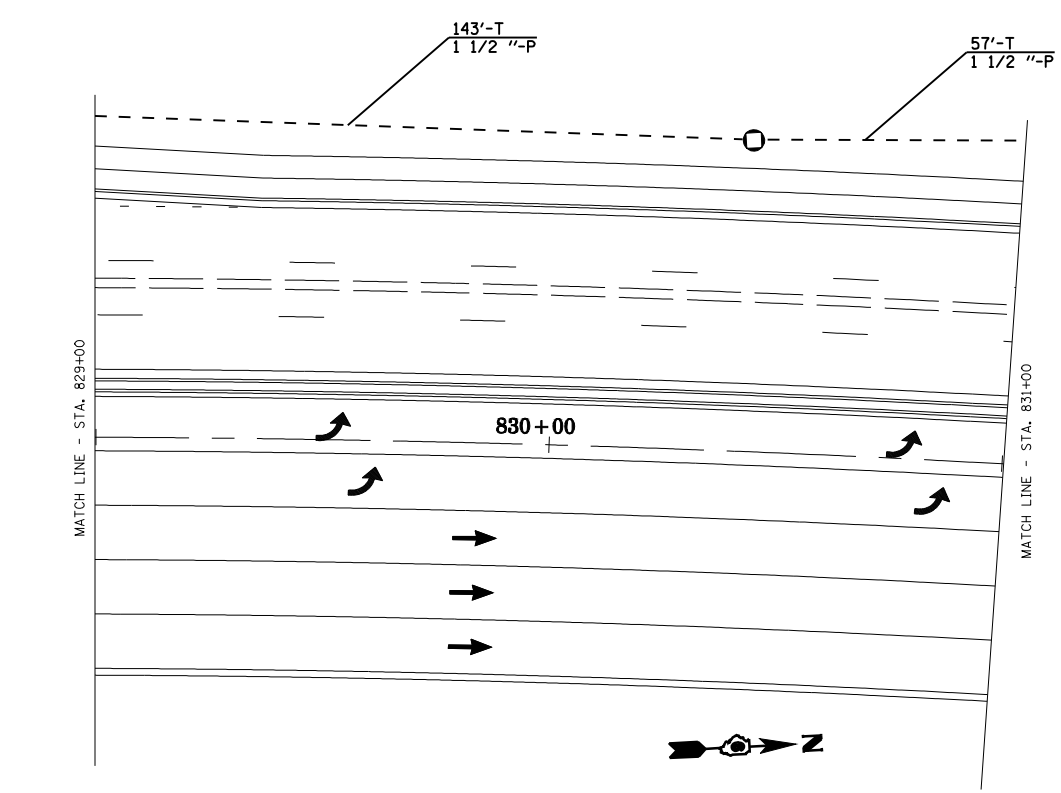
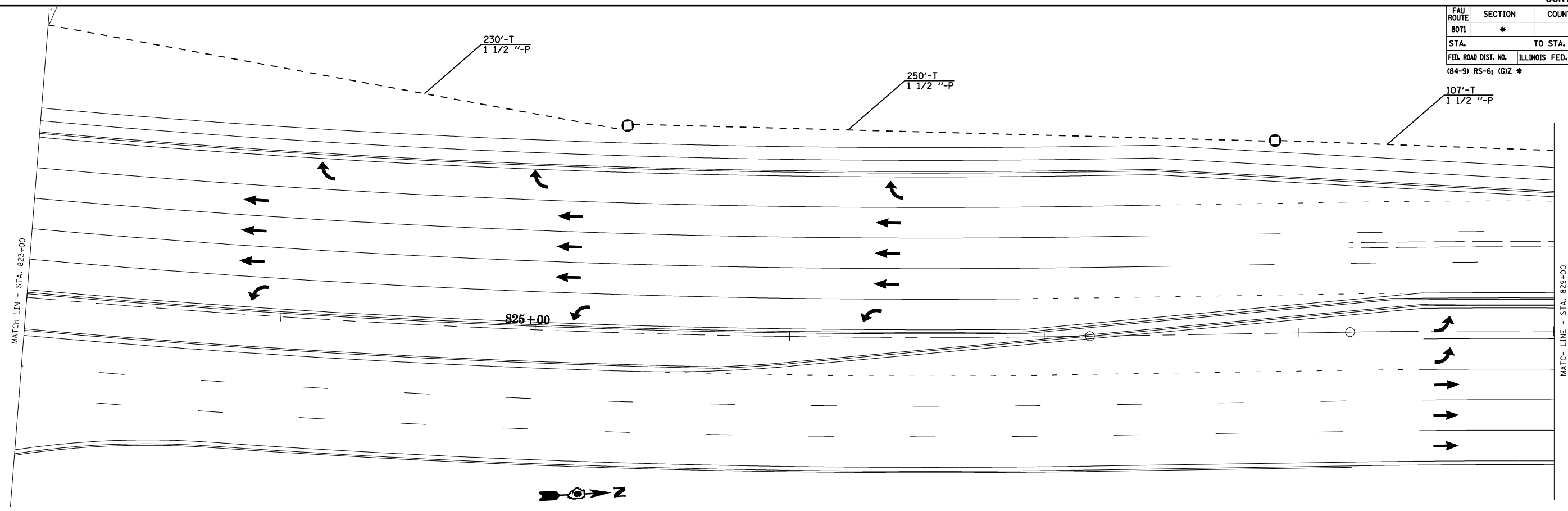
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROPOSED TRAFFIC SIGNALS  
 MACARTHUR BLVD & LINCOLNSHIRE BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	268
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; IGIZ *				



TRAFFIC SIGNAL QUANTITIES

QUANTITY	UNIT	ITEM
787.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
787.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
791.5	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F
3	EACH	JUNCTION BOX (SPECIAL)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

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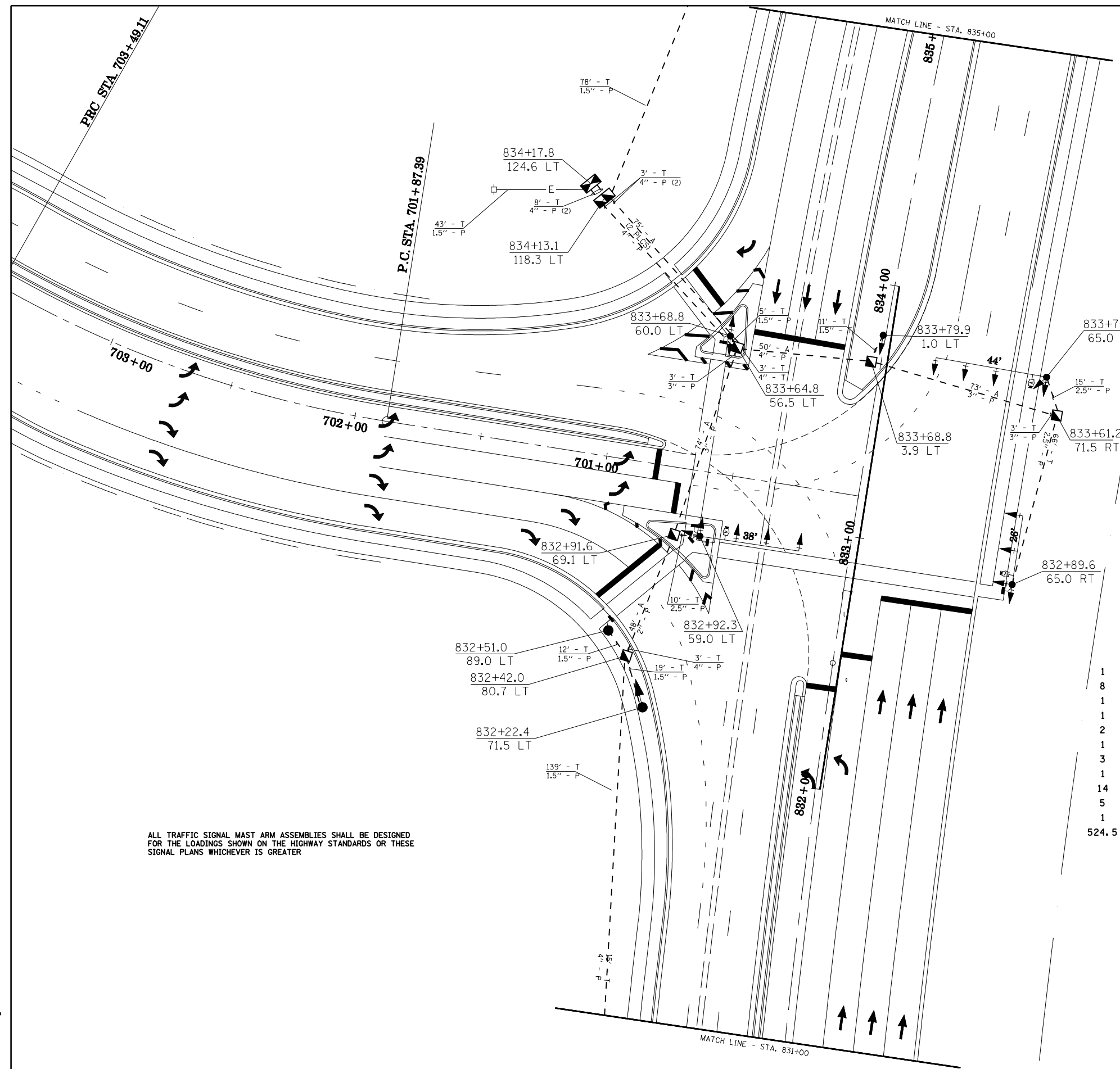


FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	269
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				
ITEM				

TRAFFIC SIGNAL QUANTITIES

LOCATION: MACARTHUR BLVD & CENTER ACCESS

QUANTITY	UNIT	ITEM
43.0	SQ FT	SIGN PANEL - TYPE II
1	EACH	SERVICE INSTALLATION, TYPE A
1	EACH	LIGHT POLE, WOOD, 25 FOOT, CLASS 4
307.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
91.0	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., PVC
6.0	FOOT	CONDUIT IN TRENCH, 3" DIA., PVC
25.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
48.0	FOOT	CONDUIT, AUGERED, 2" DIA., PVC
147.0	FOOT	CONDUIT, AUGERED, 3" DIA., PVC
200.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
5	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
429.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1126.0	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3/C #12
3	EACH	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 400 WATT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1	EACH	TRANSCEIVER - FIBER OPTIC
490.5	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24 F
1613.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1111.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
706.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 9C
228.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 12C
1126.0	FOOT	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18, 3/C
43.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3/C
1	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	PEDESTRIAN SIGNAL POST, TYPE II
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT.
12.0	FOOT	CONCRETE FOUNDATION, TYPE A
3.5	FOOT	CONCRETE FOUNDATION, TYPE D
10.0	FOOT	CONCRETE FOUNDATION, TYPE E, 30" DIA.
24.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA.
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 3-SECTION, BRACKET MOUNTED
8	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 3-FACE, BRACKET MOUNTED
14	EACH	TRAFFIC SIGNAL BACKPLATE
5	EACH	PEDESTRIAN PUSHBUTTON
1	EACH	VIDEO VEHICLE DETECTION SYSTEM
524.5	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, #6 1/C (GREEN)



ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER

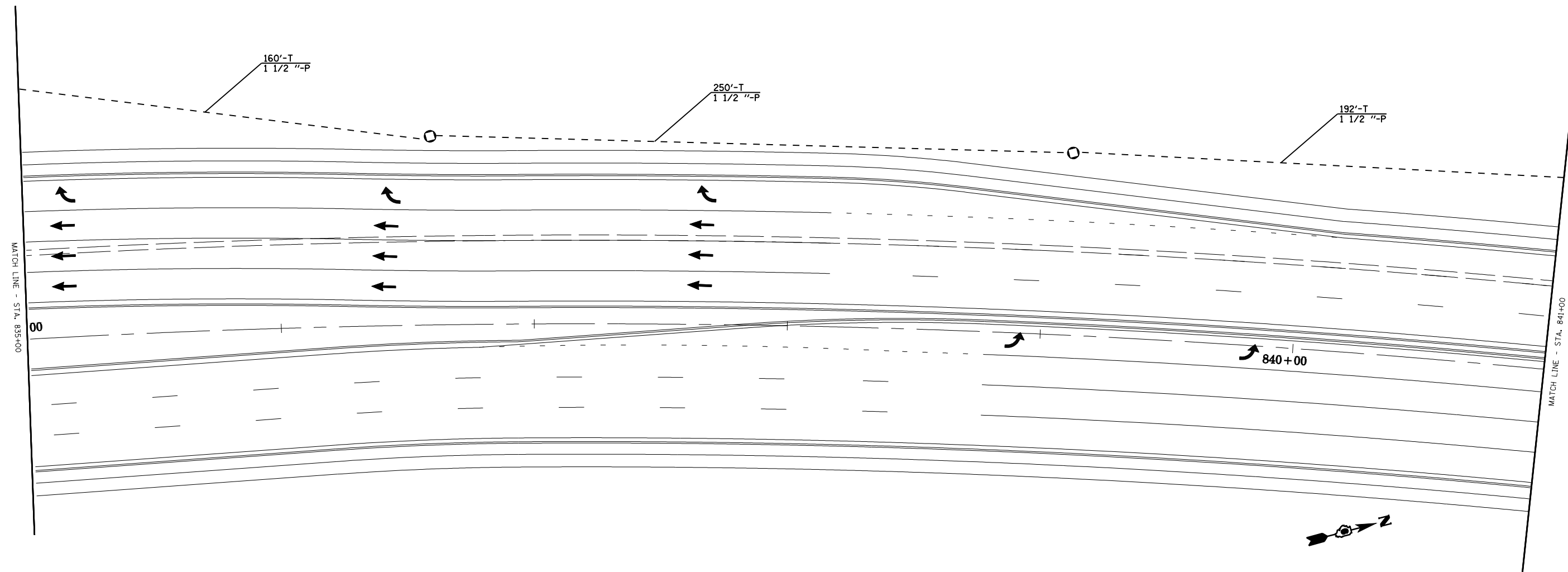
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD & CENTER ACCESS  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	270
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



TRAFFIC SIGNAL QUANTITIES

QUANTITY	UNIT	ITEM
602.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
602.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
605.0	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F
2	EACH	JUNCTION BOX (SPECIAL)



REVISIONS	
NAME	DATE

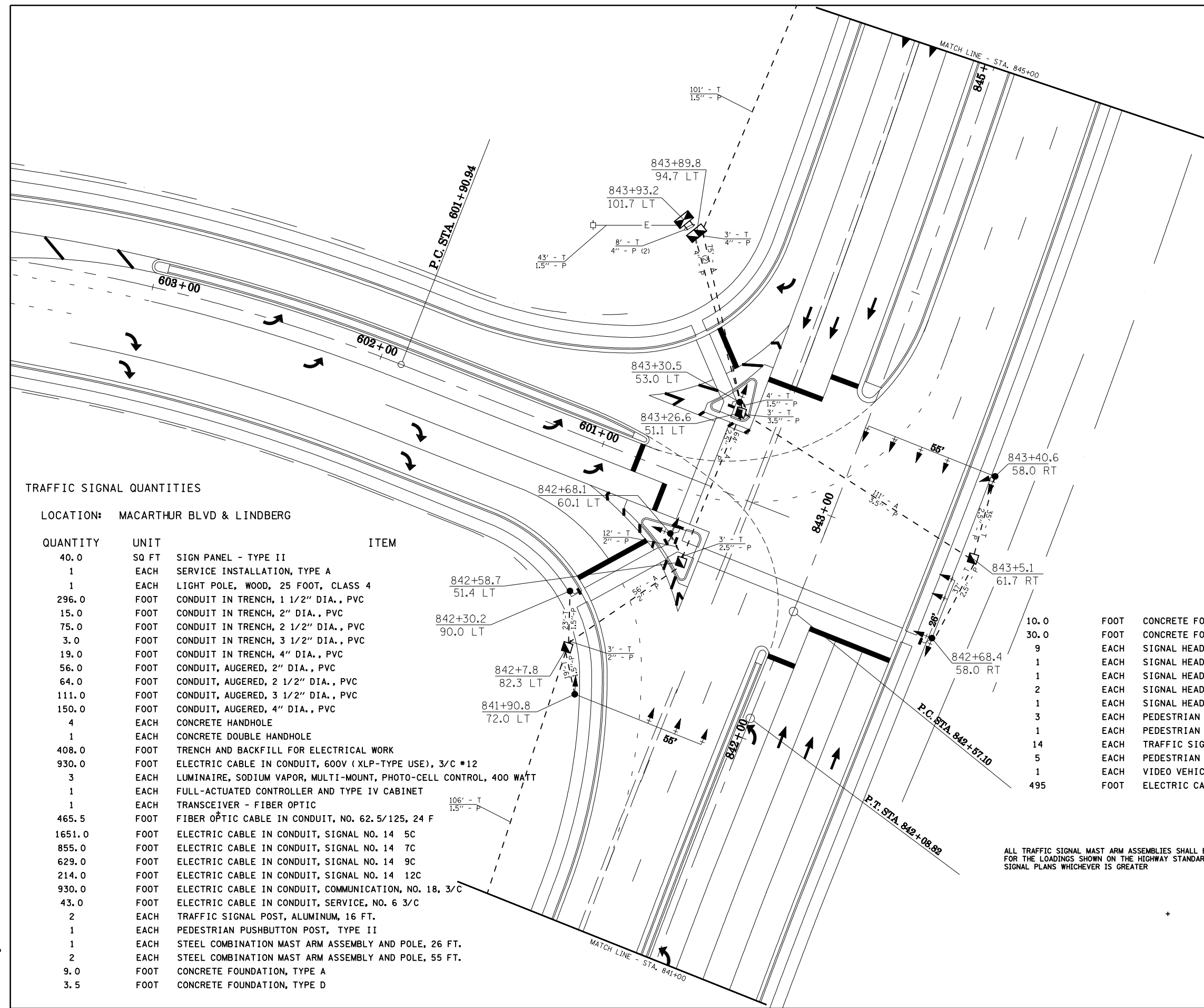
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	271
STA. 8071		TO STA. 8072		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



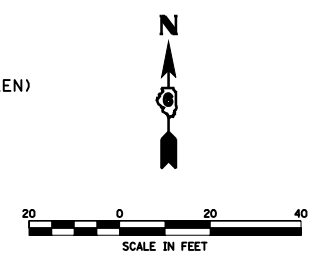
TRAFFIC SIGNAL QUANTITIES

LOCATION: MACARTHUR BLVD & LINDBERG

QUANTITY	UNIT	ITEM
40.0	SQ FT	SIGN PANEL - TYPE II
1	EACH	SERVICE INSTALLATION, TYPE A
1	EACH	LIGHT POLE, WOOD, 25 FOOT, CLASS 4
296.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
15.0	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
75.0	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., PVC
3.0	FOOT	CONDUIT IN TRENCH, 3 1/2" DIA., PVC
19.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
56.0	FOOT	CONDUIT, AUGERED, 2" DIA., PVC
64.0	FOOT	CONDUIT, AUGERED, 2 1/2" DIA., PVC
111.0	FOOT	CONDUIT, AUGERED, 3 1/2" DIA., PVC
150.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
4	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
408.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
930.0	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3/C #12
3	EACH	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 400 WATT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1	EACH	TRANSCEIVER - FIBER OPTIC
465.5	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24 F
1651.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
855.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
629.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 9C
214.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 12C
930.0	FOOT	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18, 3/C
43.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3/C
2	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	PEDESTRIAN PUSHBUTTON POST, TYPE II
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.
9.0	FOOT	CONCRETE FOUNDATION, TYPE A
3.5	FOOT	CONCRETE FOUNDATION, TYPE D

10.0	FOOT	CONCRETE FOUNDATION, TYPE E, 30" DIA.
30.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA.
9	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 3-FACE, BRACKET MOUNTED
14	EACH	TRAFFIC SIGNAL BACKPLATE
5	EACH	PEDESTRIAN PUSHBUTTON
1	EACH	VIDEO VEHICLE DETECTION SYSTEM
495	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, #6 1/C (GREEN)

ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER



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REVISIONS	
NAME	DATE

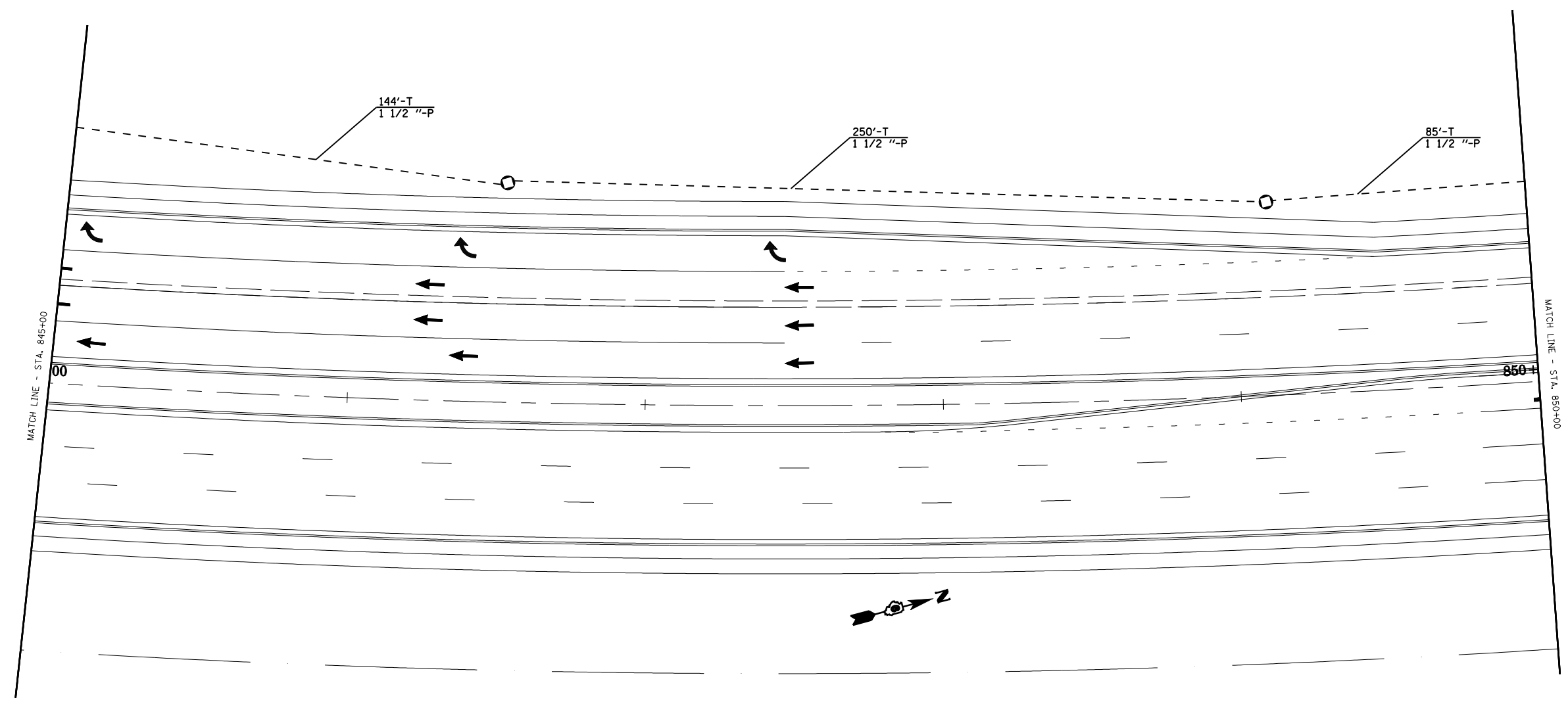
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD & LINDBERG BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY IDOT  
 CHECKED BY IDOT

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	272
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; IGIZ *				



TRAFFIC SIGNAL QUANTITIES

QUANTITY	UNIT	ITEM
479.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
479.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
482.0	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24F
2	EACH	JUNCTION BOX (SPECIAL)



REVISIONS	
NAME	DATE

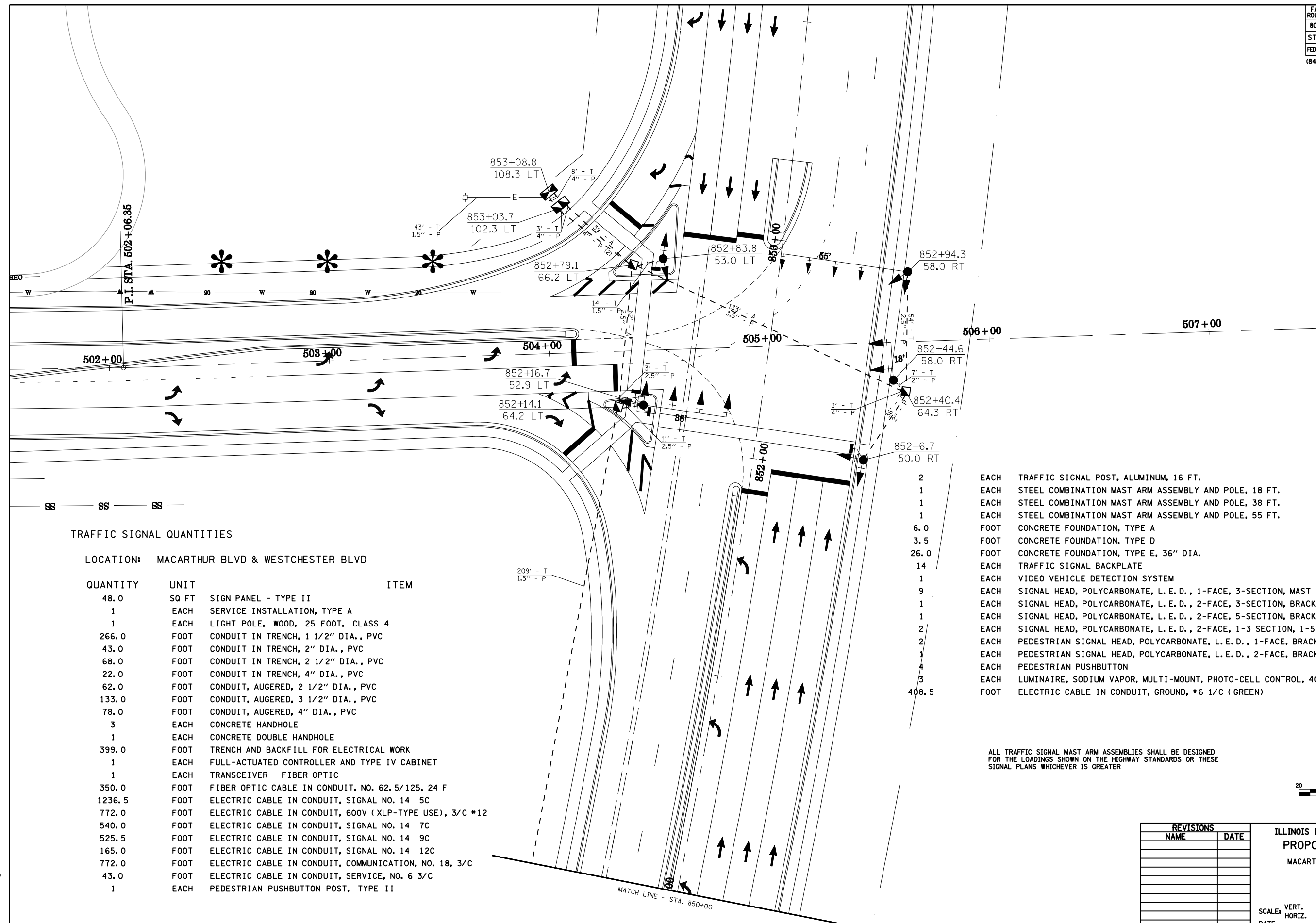
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD  
 SANGAMON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

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FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*		425	273
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; IGIZ *				



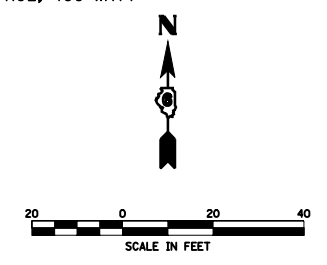
TRAFFIC SIGNAL QUANTITIES

LOCATION: MACARTHUR BLVD & WESTCHESTER BLVD

QUANTITY	UNIT	ITEM
48.0	SQ FT	SIGN PANEL - TYPE II
1	EACH	SERVICE INSTALLATION, TYPE A
1	EACH	LIGHT POLE, WOOD, 25 FOOT, CLASS 4
266.0	FOOT	CONDUIT IN TRENCH, 1 1/2" DIA., PVC
43.0	FOOT	CONDUIT IN TRENCH, 2" DIA., PVC
68.0	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., PVC
22.0	FOOT	CONDUIT IN TRENCH, 4" DIA., PVC
62.0	FOOT	CONDUIT, AUGERED, 2 1/2" DIA., PVC
133.0	FOOT	CONDUIT, AUGERED, 3 1/2" DIA., PVC
78.0	FOOT	CONDUIT, AUGERED, 4" DIA., PVC
3	EACH	CONCRETE HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
399.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1	EACH	TRANSCEIVER - FIBER OPTIC
350.0	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 24 F
1236.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
772.0	FOOT	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3/C #12
540.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
525.5	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 9C
165.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 12C
772.0	FOOT	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18, 3/C
43.0	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3/C
1	EACH	PEDESTRIAN PUSHBUTTON POST, TYPE II

2	EACH	TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 18 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.
6.0	FOOT	CONCRETE FOUNDATION, TYPE A
3.5	FOOT	CONCRETE FOUNDATION, TYPE D
26.0	FOOT	CONCRETE FOUNDATION, TYPE E, 36" DIA.
14	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	VIDEO VEHICLE DETECTION SYSTEM
9	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, L. E. D., 2-FACE, BRACKET MOUNTED
4	EACH	PEDESTRIAN PUSHBUTTON
3	EACH	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, PHOTO-CELL CONTROL, 400 WATT
408.5	FOOT	ELECTRIC CABLE IN CONDUIT, GROUND, #6 1/C (GREEN)

ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES SHALL BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS WHICHEVER IS GREATER



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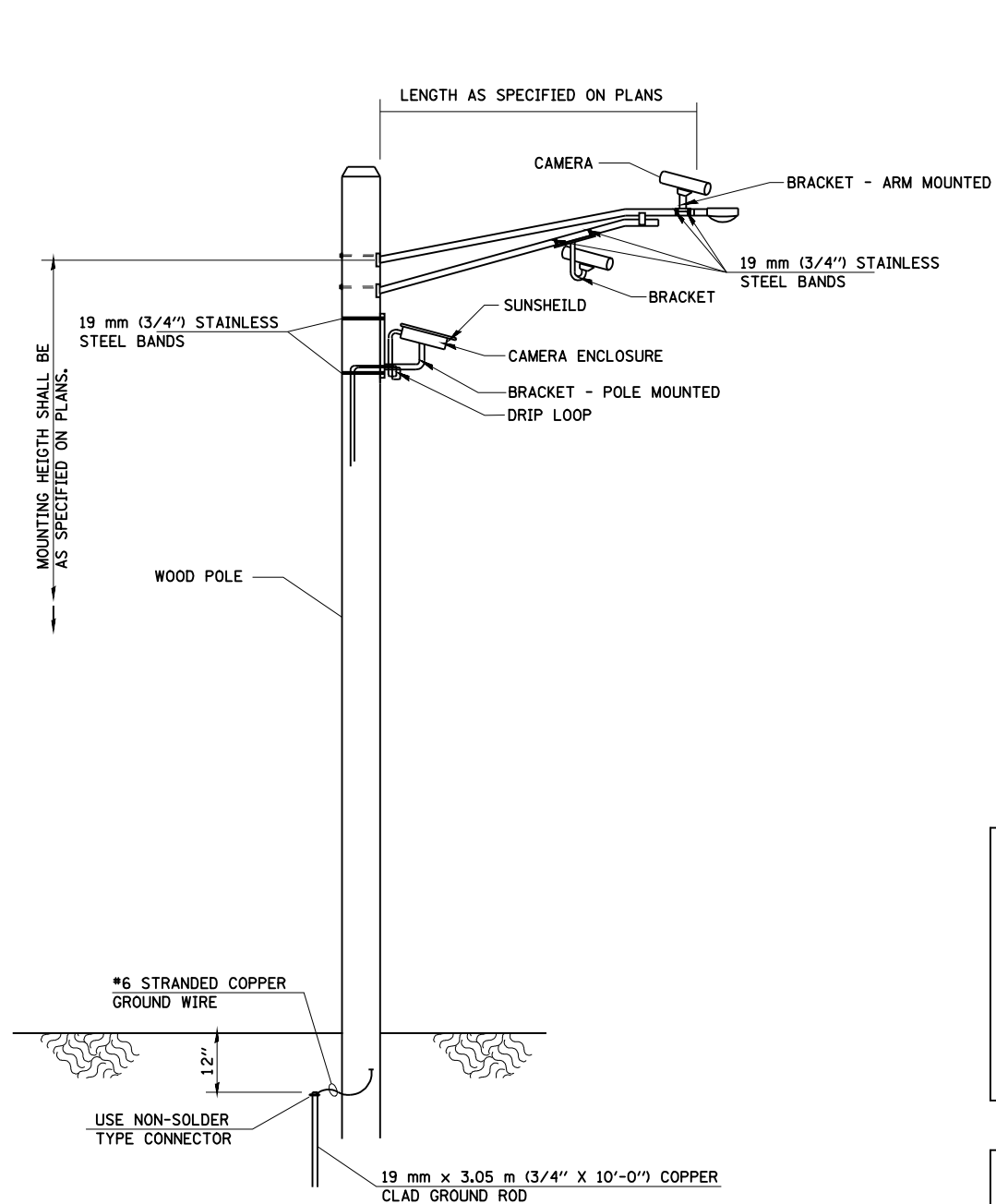
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED TRAFFIC SIGNALS**  
 MACARTHUR BLVD & WESTCHESTER BLVD  
 SANGAMON COUNTY

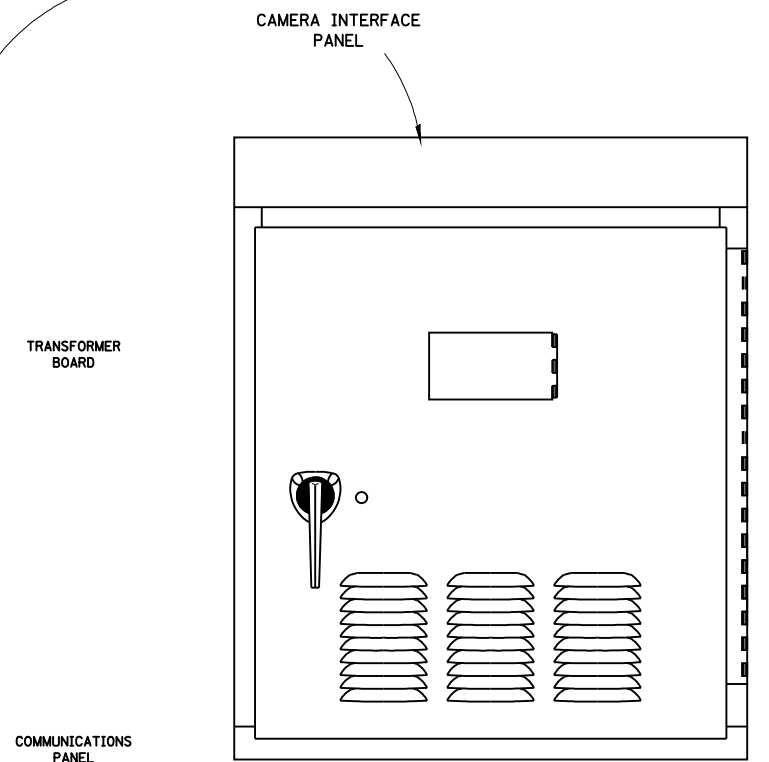
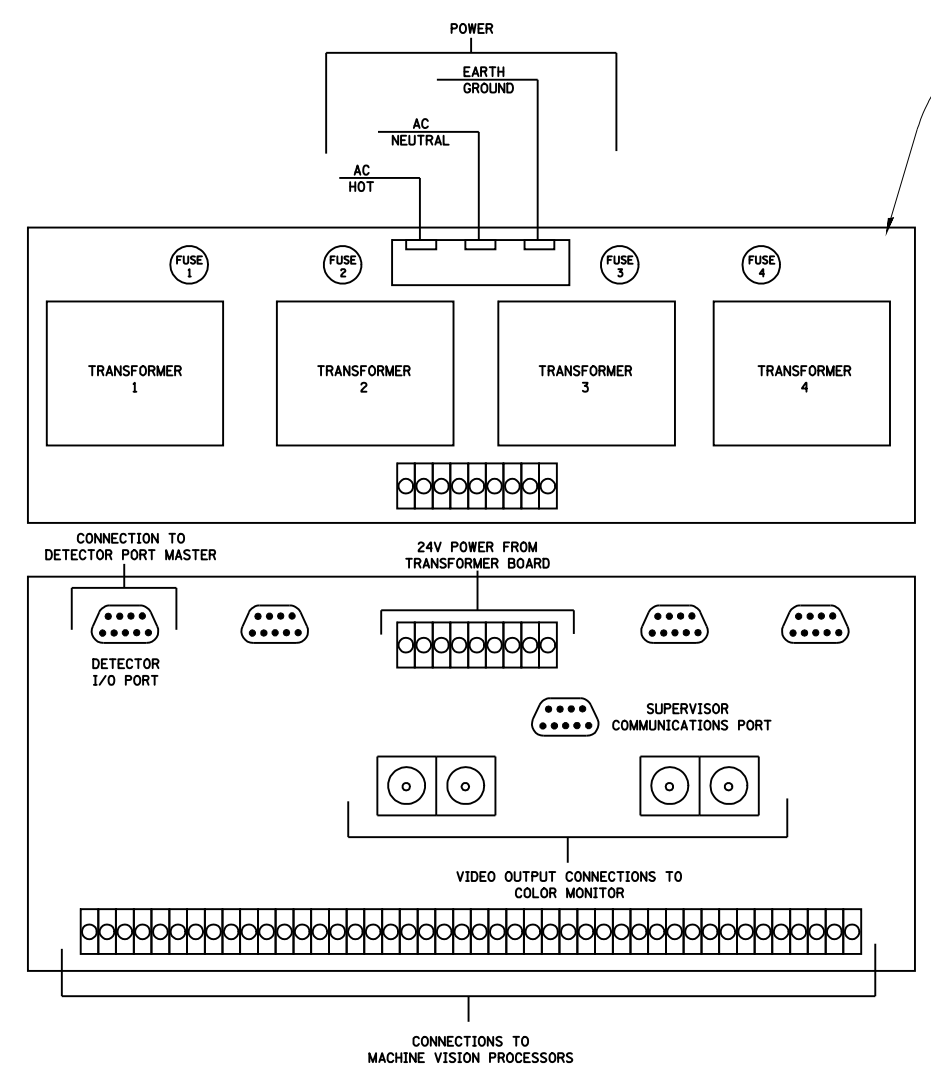
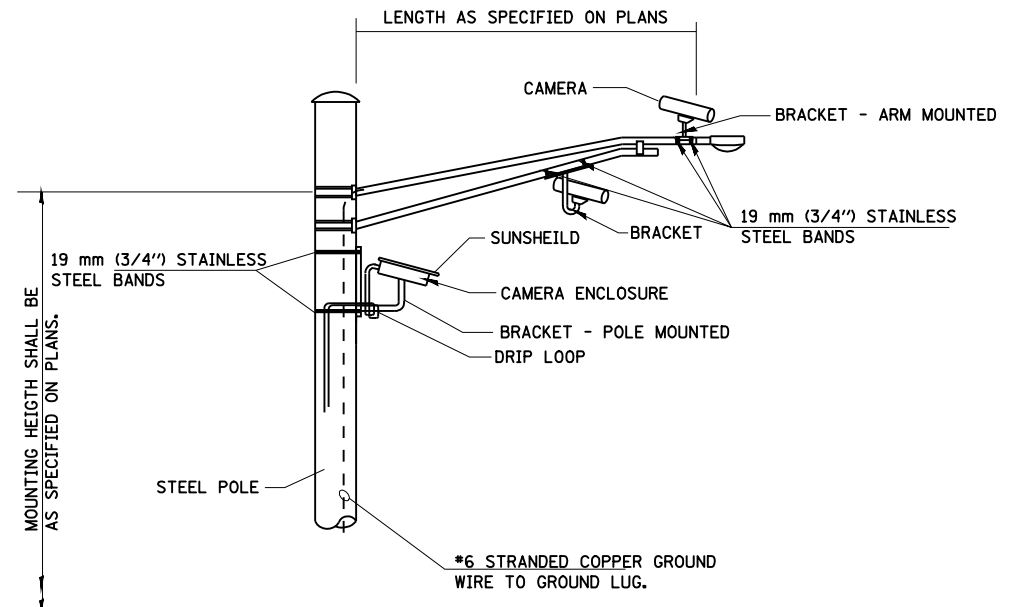
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 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 DRAWN BY IDOT  
 CHECKED BY IDOT



FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	275
STA. #		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (84-9)RS-6; (G)Z				



**VIDEO DETECTION SYSTEM INSTALLATION  
ARM MOUNTED OR POLE MOUNTED CAMERA**



REVISIONS	
NAME	DATE
WCD	31OCT97

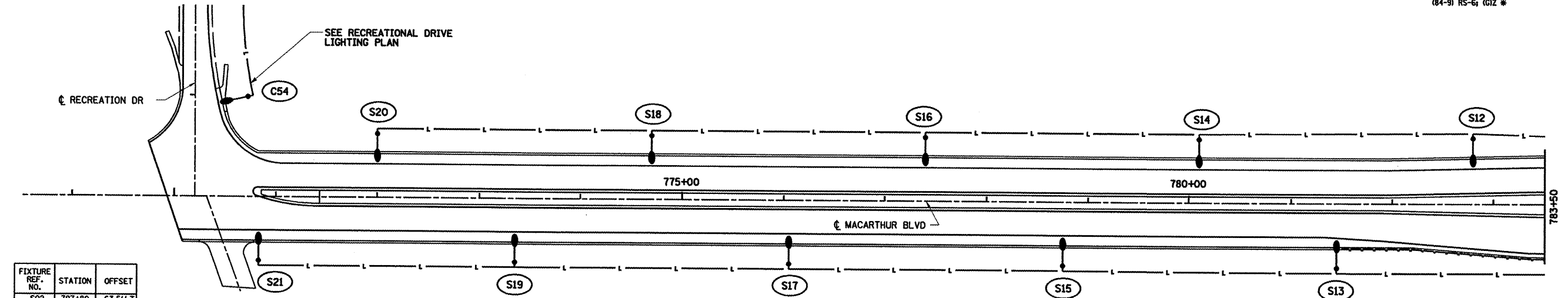
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**VIDEO DETECTION SYSTEM  
 INSTALLATION DETAIL**  
 MACARTHUR BLVD  
 SANGAMON COUNTY

VERT. SCALE: 1\"/>

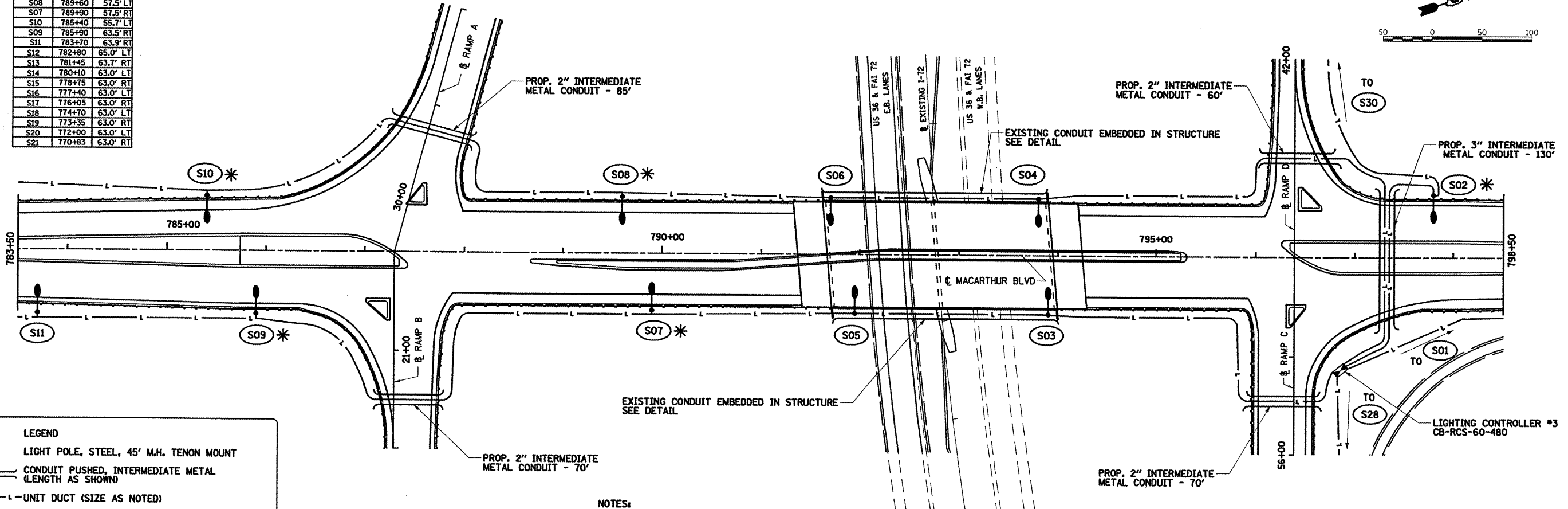
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CONTRACT #72679

FAH ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	#	SANGAMON	425	276
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z #				



FIXTURE REF. NO.	STATION	OFFSET
S02	797+80	63.5' LT
S04	793+80	STRUCT.
S03	793+90	STRUCT.
S06	791+70	STRUCT.
S05	791+95	STRUCT.
S08	789+60	57.5' LT
S07	789+90	57.5' RT
S10	785+40	55.7' LT
S09	785+90	63.5' RT
S11	783+70	63.9' RT
S12	782+80	65.0' LT
S13	781+45	63.7' RT
S14	780+10	63.0' LT
S15	778+75	63.0' RT
S16	777+40	63.0' LT
S17	776+05	63.0' RT
S18	774+70	63.0' LT
S19	773+35	63.0' RT
S20	772+00	63.0' LT
S21	770+83	63.0' RT



**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- ⊠ LIGHTING CONTROLLER
- (C01) CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- (S01) STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- \* CONCRETE SPECIAL FOUNDATION - 8' DEPTH

- NOTES:**
- SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE.
  - ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6' METAL - UNLESS OTHERWISE INDICATED.
  - DISTRICT WILL PROVIDE THE NUMBERING SCHEME FOR INSTALLING POLE NUMBERS ON INTERCHANGE POLES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
**MACARTHUR BOULEVARD - 1**  
**SECTION**  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
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 DATE May-16-2008 01:27:08PM

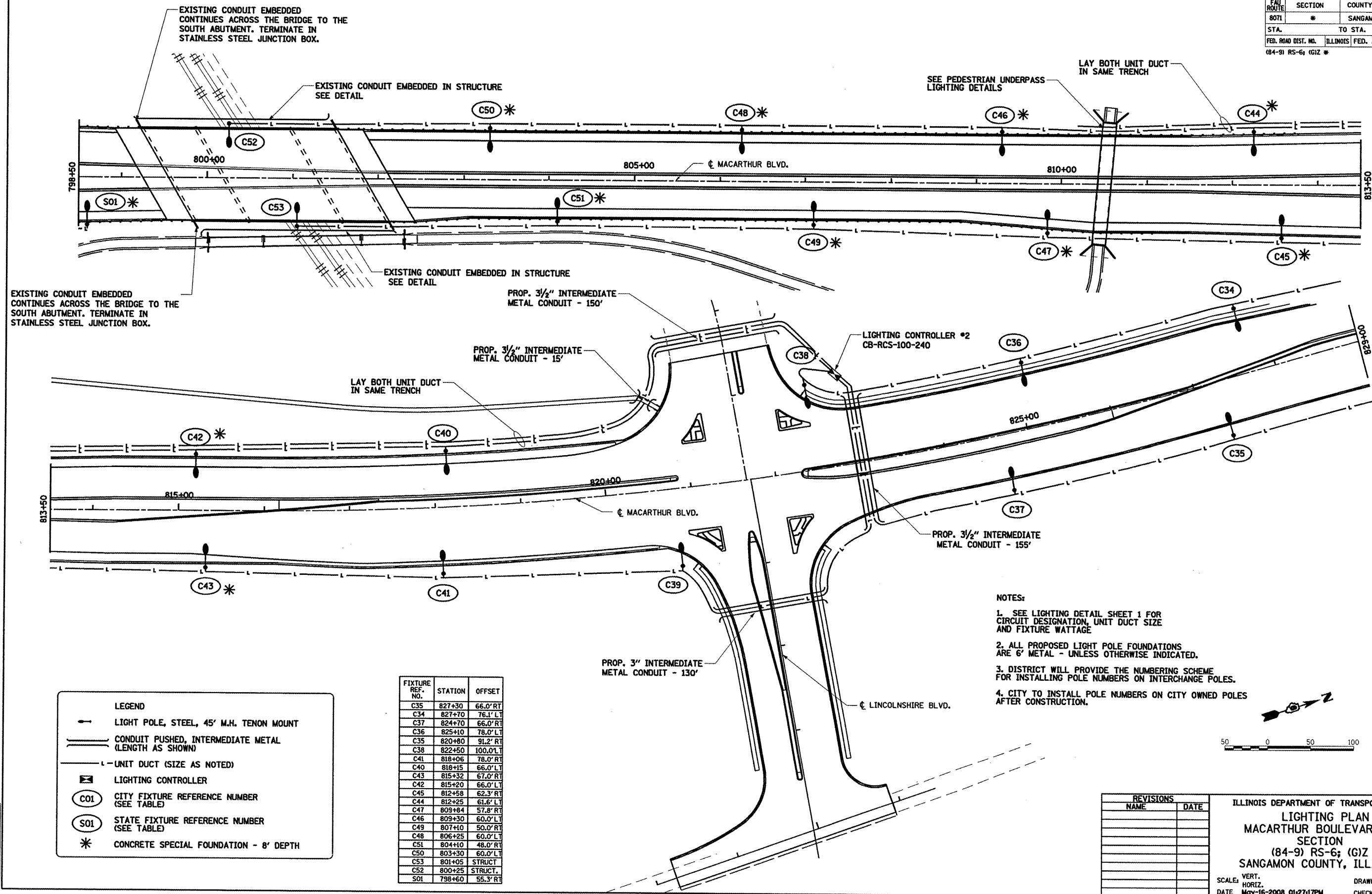
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**HANSON**

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FAH ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	277
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		(84-9) RS-6; (G)Z *		



EXISTING CONDUIT EMBEDDED CONTINUES ACROSS THE BRIDGE TO THE SOUTH ABUTMENT. TERMINATE IN STAINLESS STEEL JUNCTION BOX.

EXISTING CONDUIT EMBEDDED IN STRUCTURE SEE DETAIL

SEE PEDESTRIAN UNDERPASS LIGHTING DETAILS

LAY BOTH UNIT DUCT IN SAME TRENCH

EXISTING CONDUIT EMBEDDED IN STRUCTURE SEE DETAIL

PROP. 3/2" INTERMEDIATE METAL CONDUIT - 150'

LIGHTING CONTROLLER #2 CB-RCS-100-240

LAY BOTH UNIT DUCT IN SAME TRENCH

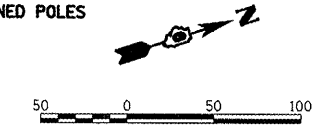
PROP. 3/2" INTERMEDIATE METAL CONDUIT - 15'

PROP. 3/2" INTERMEDIATE METAL CONDUIT - 155'

PROP. 3" INTERMEDIATE METAL CONDUIT - 130'

NOTES:

1. SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE
2. ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6" METAL - UNLESS OTHERWISE INDICATED.
3. DISTRICT WILL PROVIDE THE NUMBERING SCHEME FOR INSTALLING POLE NUMBERS ON INTERCHANGE POLES.
4. CITY TO INSTALL POLE NUMBERS ON CITY OWNED POLES AFTER CONSTRUCTION.



**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- ☒ LIGHTING CONTROLLER
- (C01) CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- (S01) STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- \* CONCRETE SPECIAL FOUNDATION - 8' DEPTH

FIXTURE REF. NO.	STATION	OFFSET
C35	827+30	66.0' RT
C34	827+70	76.1' LT
C37	824+70	66.0' RT
C36	825+10	78.0' LT
C35	820+80	91.2' RT
C38	822+50	100.0' LT
C41	818+06	78.0' RT
C40	818+15	66.0' LT
C43	815+32	67.0' RT
C42	815+20	66.0' LT
C45	812+58	62.3' RT
C44	812+25	61.6' LT
C47	809+84	57.8' RT
C46	809+30	60.0' LT
C49	807+10	50.0' RT
C48	806+25	60.0' LT
C51	804+10	48.0' RT
C50	803+30	60.0' LT
C53	801+05	STRUCT.
C52	800+25	STRUCT.
S01	798+60	55.3' RT

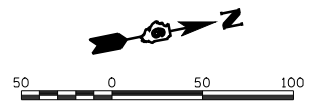
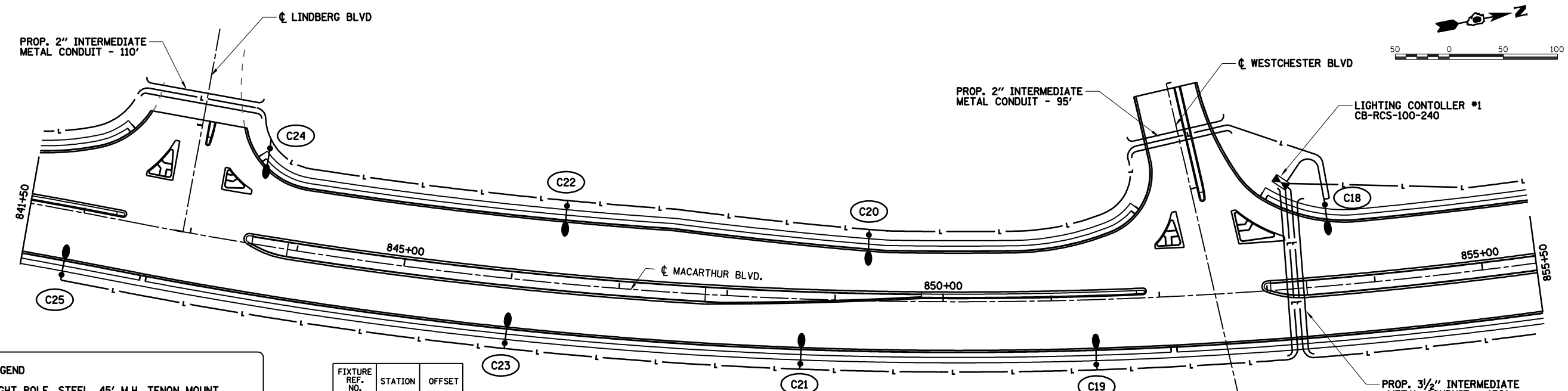
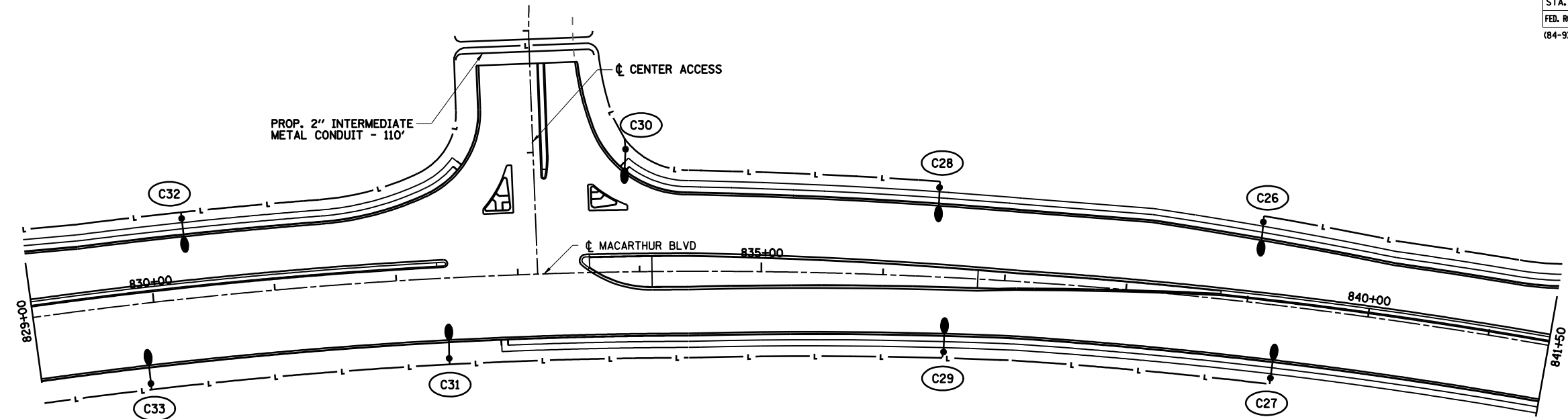
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
**MACARTHUR BOULEVARD - 2**  
**SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**

SCALE: VERT. HORIZ.  
 DATE May-16-2008 01:27:17PM

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 CHECKED BY JWM

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	278
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- LIGHTING CONTROLLER
- CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- CONCRETE SPECIAL FOUNDATION - 8' DEPTH

FIXTURE REF. NO.	STATION	OFFSET
C18	853+60	75.2' LT
C19	851+40	60.0' RT
C20	849+30	61.0' LT
C21	848+70	60.0' RT
C22	846+45	72.0' LT
C23	846+00	60.0' RT
C24	843+60	89.8' LT
C25	841+90	60.0' RT
C26	839+06	66.6' LT
C27	839+26	60.0' RT
C28	836+43	73.4' LT
C29	836+53	61.2' RT
C30	833+90	100.7' LT
C31	832+40	66.0' RT
C33	829+90	66.0' RT
C32	830+30	66.0' LT

- NOTES:**
- SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE
  - ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6' METAL - UNLESS OTHERWISE INDICATED.
  - CITY TO INSTALL POLE NUMBERS ON CITY OWNED POLES AFTER CONSTRUCTION.

REVISIONS	
NAME	DATE

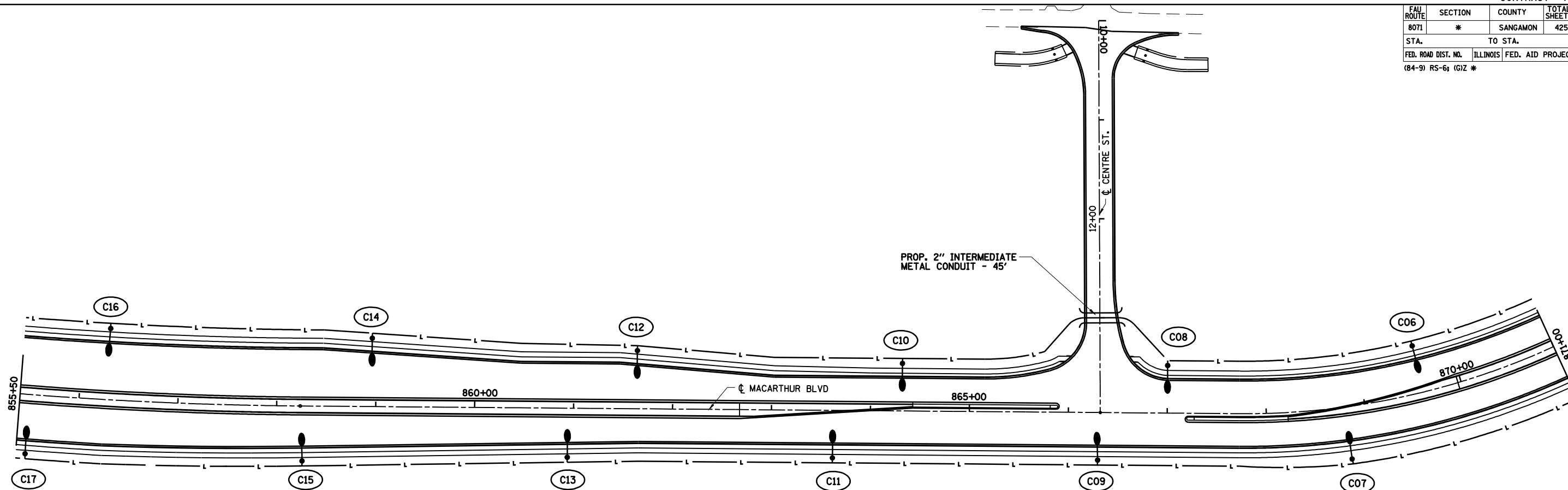
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
**MACARTHUR BOULEVARD - 3**  
**SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Apr-30-2008 01:57:01PM

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 LAYOUT: CLG 09/17/07  
 DRAWN: CLG 09/17/07  
 REVIEWED: JWM 09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	279
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

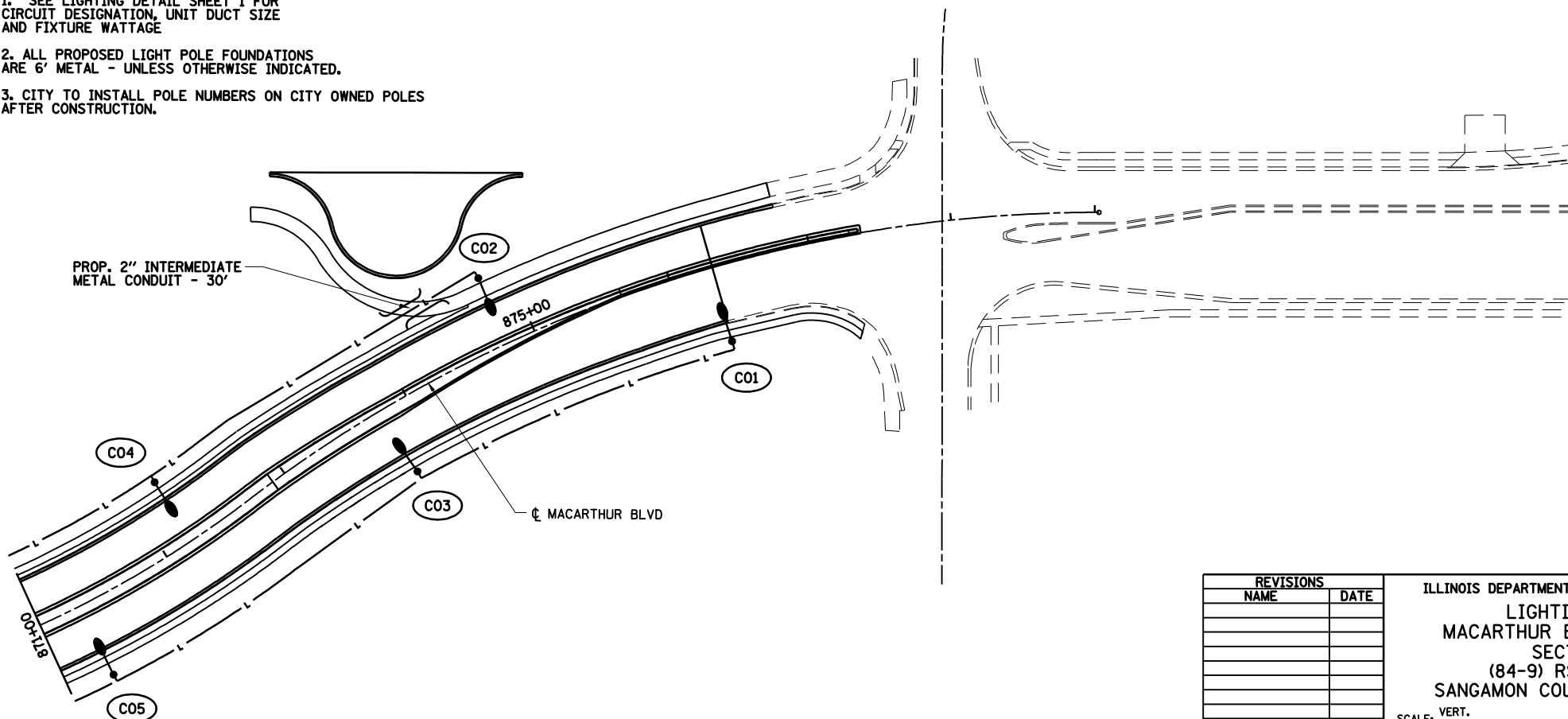


**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- LIGHTING CONTROLLER
- CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- CONCRETE SPECIAL FOUNDATION - 8' DEPTH

- NOTES:**
- SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE
  - ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6' METAL - UNLESS OTHERWISE INDICATED.
  - CITY TO INSTALL POLE NUMBERS ON CITY OWNED POLES AFTER CONSTRUCTION.

FIXTURE REF. NO.	STATION	OFFSET
C01	876+30	53.4' RT
C02	874+80	49.5' LT
C03	873+80	49.3' RT
C04	872+20	48.0' LT
C05	871+30	53.0' RT
C06	869+60	48.0' LT
C07	868+80	53.0' RT
C08	867+00	48.0' LT
C09	866+30	48.0' RT
C10	864+32	48.0' LT
C11	863+62	48.0' RT
C12	861+64	58.7' LT
C13	860+94	49.5' RT
C14	858+96	69.0' LT
C15	858+26	55.5' RT
C16	856+28	72.0' LT
C17	855+50	60.0' RT



REVISIONS	
NAME	DATE

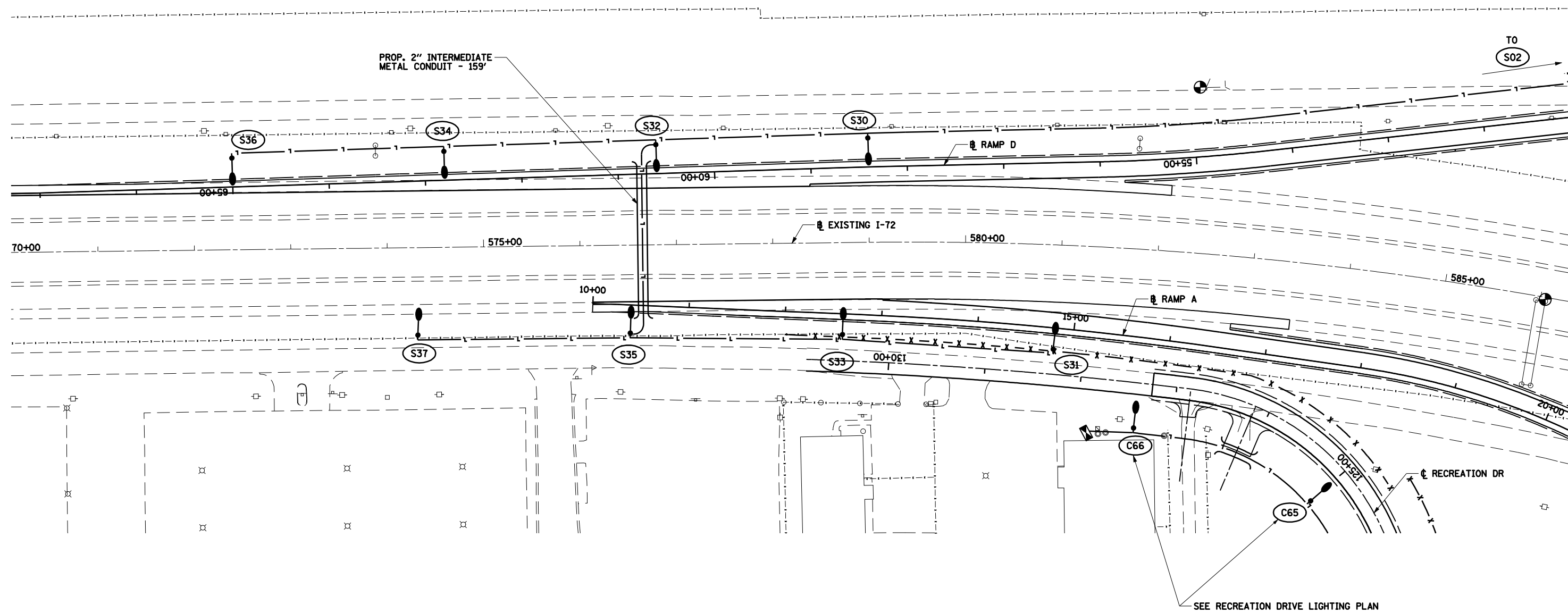
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING PLAN  
 MACARTHUR BOULEVARD - 4  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT.      DRAWN BY JAP  
 HORIZ.              CHECKED BY JWM  
 DATE: Apr-30-2008 01:57:07PM



LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	280
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



PROP. 2" INTERMEDIATE METAL CONDUIT - 159'

TO S02

70+00

575+00

580+00

585+00

10+00

15+00

20+00

SEE RECREATION DRIVE LIGHTING PLAN

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**HANSON**

APR-30-2008 01:57:44PM  
 \$FILES\$

LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- LIGHTING CONTROLLER
- CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- CONCRETE SPECIAL FOUNDATION - 8' DEPTH

FIXTURE REF. NO.	STATION	OFFSET
S31	14+80	22.0' RT
S33	12+60	21.5' RT
S35	10+40	29.0' RT
S37	8+20	32.0' RT
S30	58+40	30.0' RT
S32	60+60	30.0' RT
S34	62+80	30.0' RT
S36	65+00	30.0' RT

- NOTES:**
- SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE
  - ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6' METAL - UNLESS OTHERWISE INDICATED.
  - DISTRICT WILL PROVIDE THE NUMBERING SCHEME FOR INSTALLING POLE NUMBERS ON INTERCHANGE POLES.
  - CITY TO INSTALL POLE NUMBERS ON CITY OWNED POLES AFTER CONSTRUCTION.



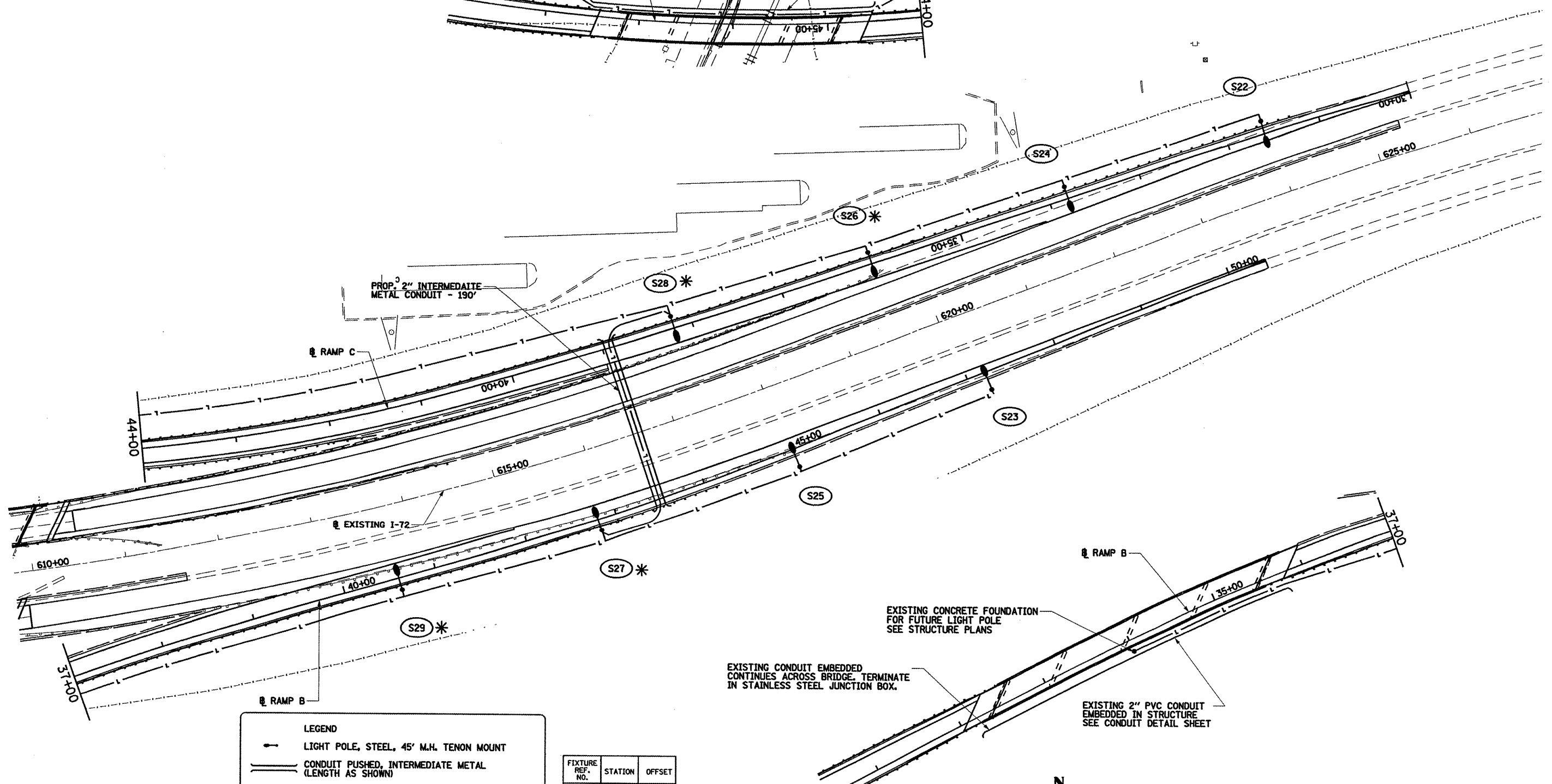
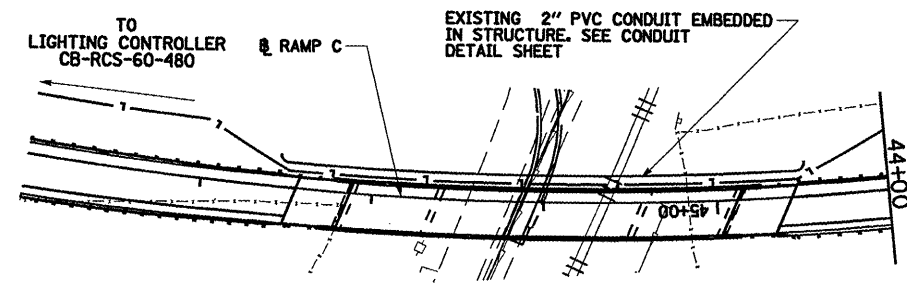
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
 MACARTHUR BOULEVARD - 5  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. DATE: APR-30-2008 01:57:44PM  
 HORIZ. DATE: APR-30-2008 01:57:44PM  
 DRAWN BY: JAP  
 CHECKED BY: JWM

CONTRACT #72679

FAH ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	281
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6;	(G)Z *			



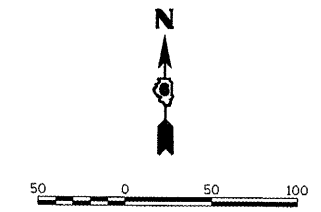
**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- ⊠ LIGHTING CONTROLLER
- (CO1) CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- (SO1) STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- \* CONCRETE SPECIAL FOUNDATION - 8' DEPTH

FIXTURE REF. NO.	STATION	OFFSET
S29	40+60	13.0' RT
S27	42+80	13.0' RT
S25	45+00	20.0' RT
S23	47+20	20.0' RT
S28	38+20	13.0' RT
S26	36+00	13.0' RT
S24	33+80	13.0' RT
S22	31+60	13.0' RT

**NOTES:**

- SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE
- ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6' METAL - UNLESS OTHERWISE INDICATED.
- DISTRICT WILL PROVIDE THE NUMBERING SCHEME FOR INSTALLING POLE NUMBERS ON INTERCHANGE POLES.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
**MACARTHUR BOULEVARD - 6**  
**SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE May-16-2008 01:30:50PM

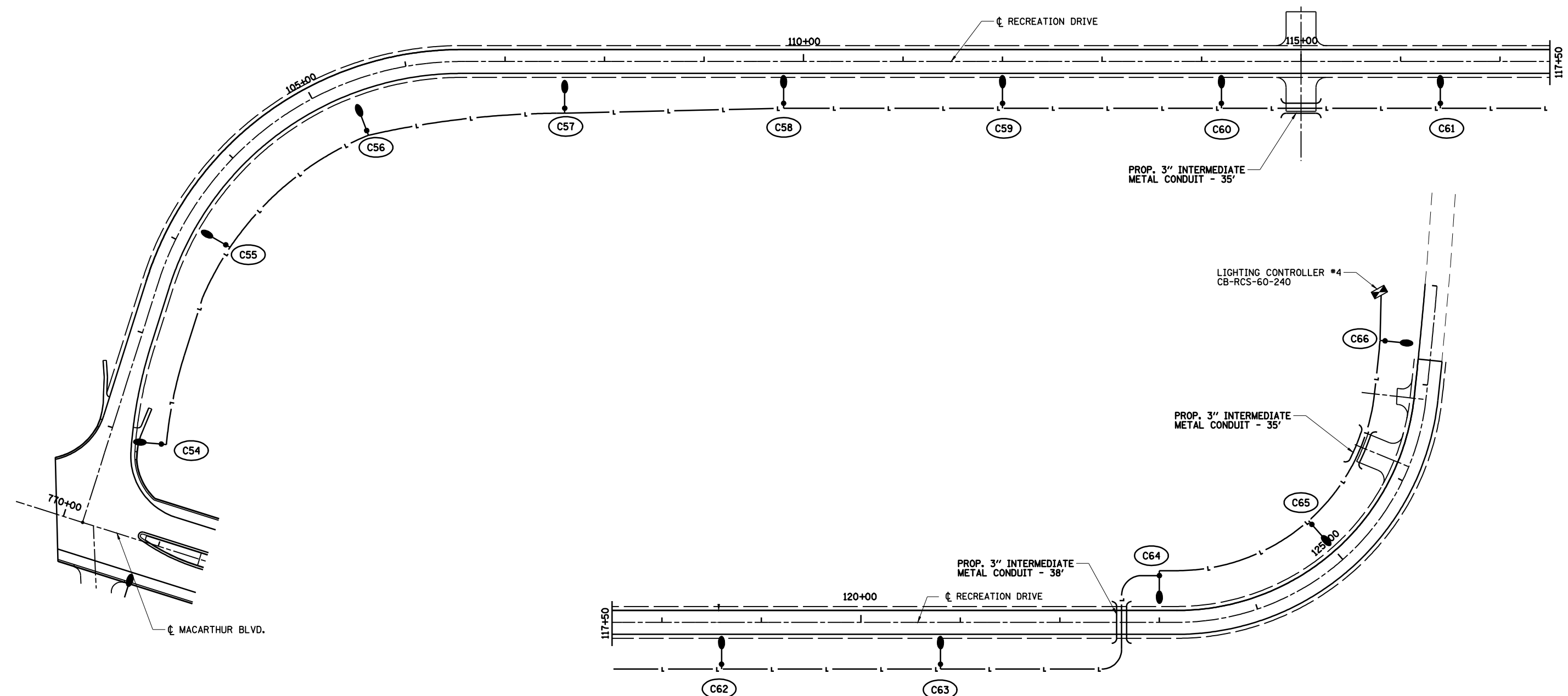
DRAWN BY JAP  
 CHECKED BY JWM

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**HANSON**

May-16-2008 01:30:50PM  
 #71154

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	282
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

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**HANSON**

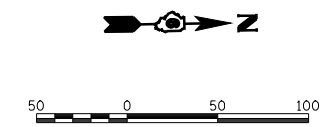


**LEGEND**

- LIGHT POLE, STEEL, 45' M.H. TENON MOUNT
- CONDUIT PUSHED, INTERMEDIATE METAL (LENGTH AS SHOWN)
- UNIT DUCT (SIZE AS NOTED)
- LIGHTING CONTROLLER
- CITY FIXTURE REFERENCE NUMBER (SEE TABLE)
- STATE FIXTURE REFERENCE NUMBER (SEE TABLE)
- CONCRETE SPECIAL FOUNDATION - 8' DEPTH

FIXTURE REF. NO.	STATION	OFFSET
C54	101+00	51.8' RT
C55	103+20	47.0' RT
C56	105+40	52.0' RT
C57	107+60	47.0' RT
C58	109+80	42.0' RT
C59	112+00	42.0' RT
C60	114+20	42.0' RT
C61	116+40	42.0' RT
C62	118+60	42.0' RT
C63	120+80	42.0' RT
C64	123+00	47.0' LT
C65	125+00	47.0' LT
C66	127+40	47.0' LT

- NOTES:**
- SEE LIGHTING DETAIL SHEET 1 FOR CIRCUIT DESIGNATION, UNIT DUCT SIZE AND FIXTURE WATTAGE
  - ALL PROPOSED LIGHT POLE FOUNDATIONS ARE 6' METAL - UNLESS OTHERWISE INDICATED.
  - CITY TO INSTALL POLE NUMBERS ON CITY OWNED POLES AFTER CONSTRUCTION.



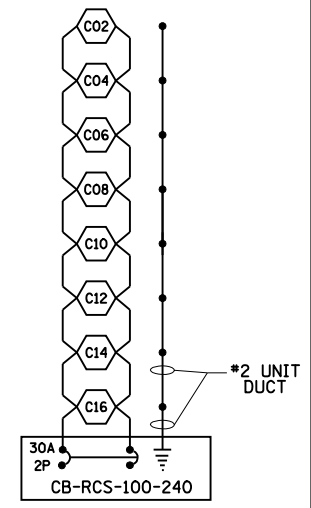
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
 RECREATION DRIVE  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

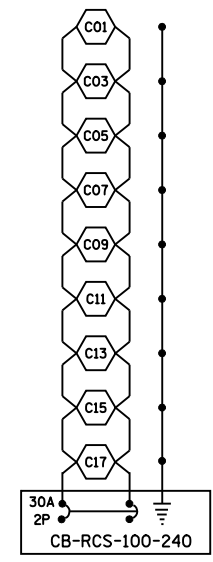
SCALE: VERT. DATE: Apr-30-2008 01:57:29PM  
 HORIZ. DATE: Apr-30-2008 01:57:29PM  
 DRAWN BY: JAP  
 CHECKED BY: JWM

AD-30-2008 01:57:29PM  
 \$FILE\$  
 LAYOUT CLG 09/17/07  
 DRAWN CLG 09/17/07  
 REVIEWED JWM 09/17/07

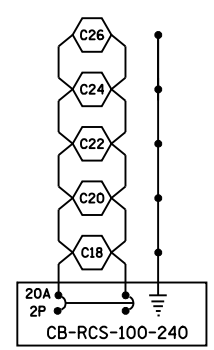
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	283
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



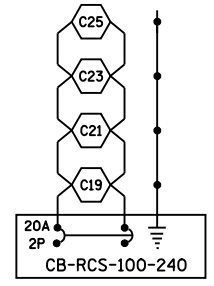
CONTROLLER 1 CKT A  
ALL \*4 UNIT DUCT UNLESS OTHERWISE NOTED



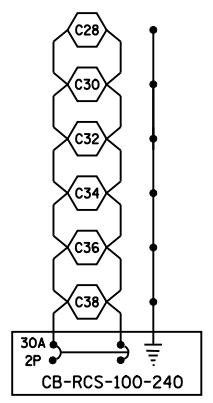
CONTROLLER 1 CKT B  
ALL \*2 UNIT DUCT



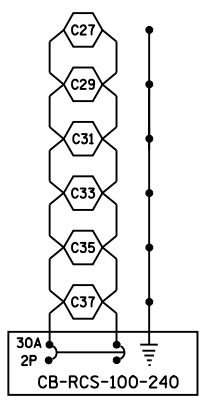
CONTROLLER 1 CKT D  
ALL \*6 UNIT DUCT



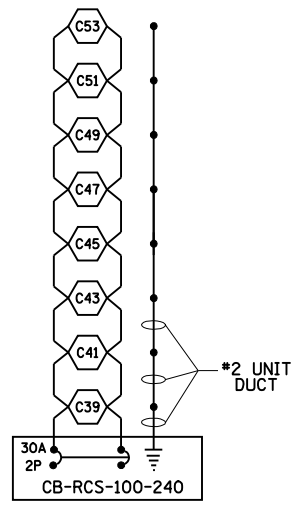
CONTROLLER 1 CKT C  
ALL \*8 UNIT DUCT



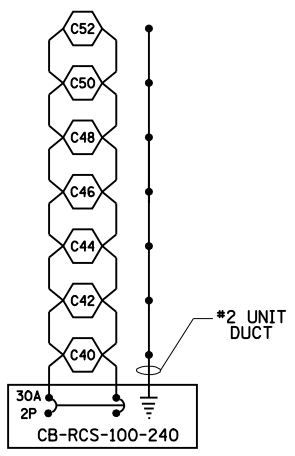
CONTROLLER 2 CKT A  
ALL \*6 UNIT DUCT



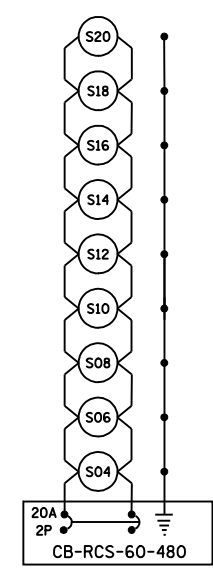
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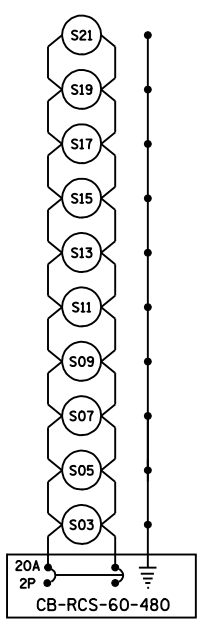
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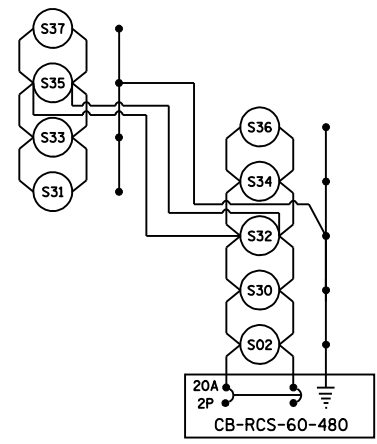
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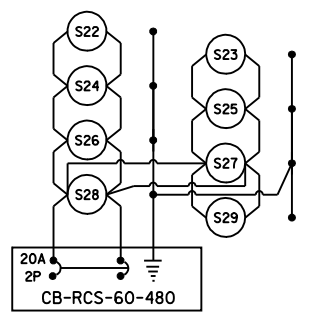
CONTROLLER 3 CKT A  
ALL \*8 UNIT DUCT



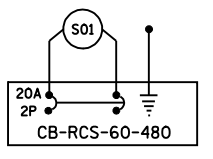
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ALL \*8 UNIT DUCT



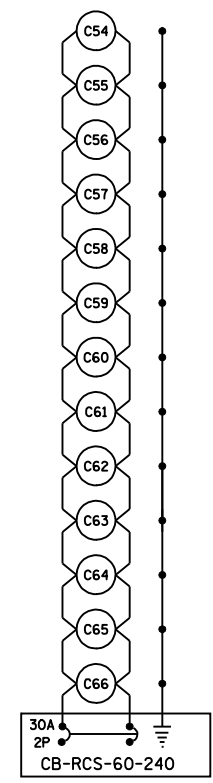
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ALL \*8 UNIT DUCT



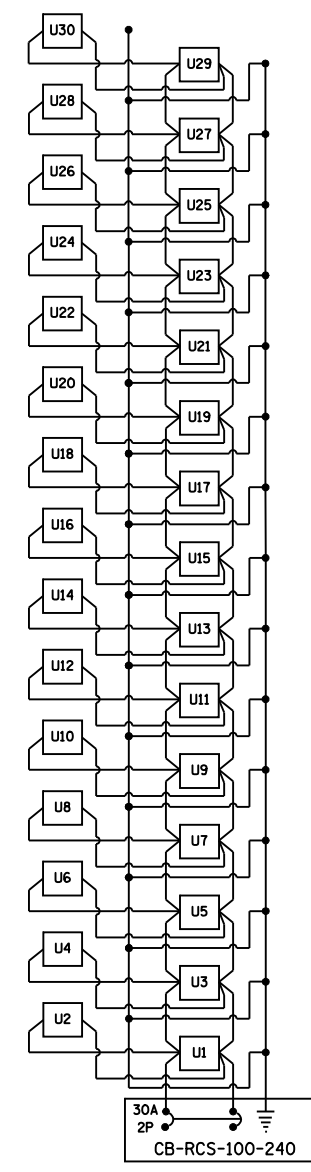
CONTROLLER 3 CKT D  
ALL \*8 UNIT DUCT



CONTROLLER 3 CKT E  
ALL \*8 UNIT DUCT



CONTROLLER 4 CKT A  
ALL \*2 UNIT DUCT



CONTROLLER 2 CKT E  
ALL \*4 UNIT DUCT

- LEGEND**
- 400 WATT HPS FIXTURE
  - 250 WATT HPS FIXTURE
  - EXISTING PEDESTRIAN UNDERPASS LUMINAIRE 70 WATT

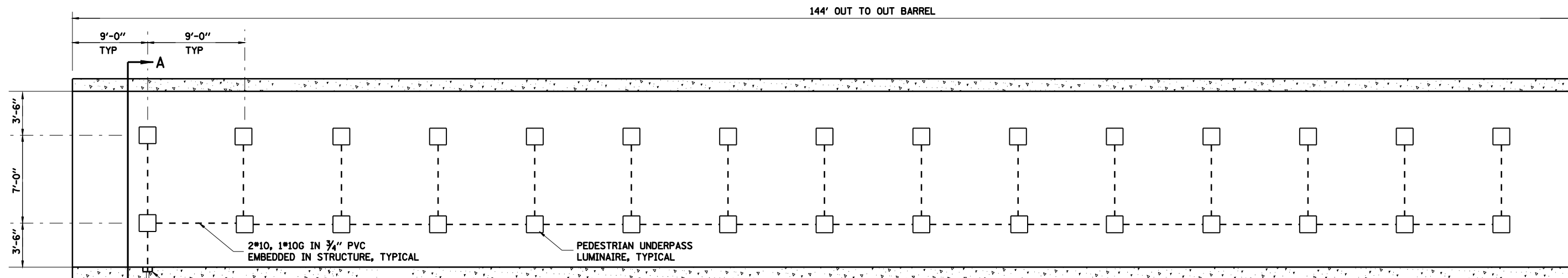
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING DETAILS -1**  
**MACARTHUR BOULVARD SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**  
 SCALE: VERT.      DRAWN BY JAP  
           HORIZ.      CHECKED BY JWM  
 DATE: Apr-30-2008 01:57:31PM

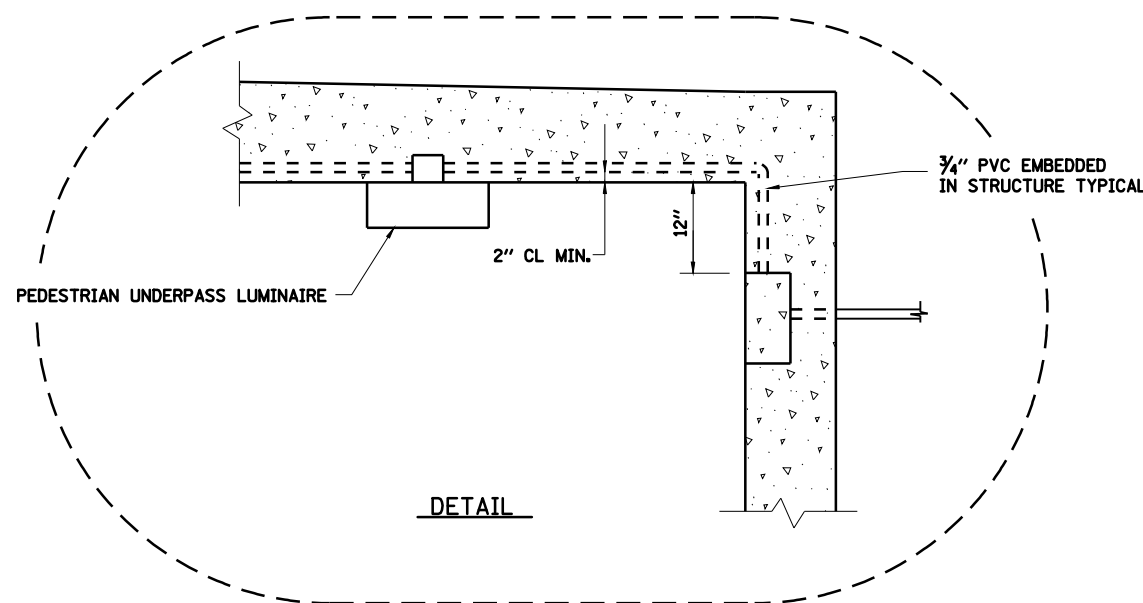
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LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

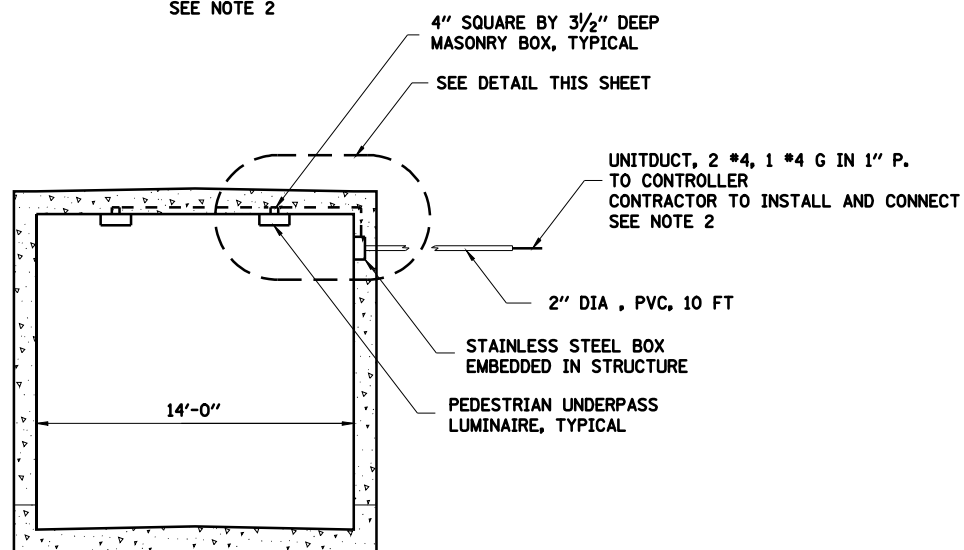
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	284
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



BARREL PLAN VIEW



DETAIL



SECTION A-A  
(SECTION THRU BOX CULVERT)

NOTE: 2" PVC, 3/4" PVC, WIRING AND MASONRY BOXES TO THE LUMINAIRES SHALL BE INCLUDED IN THE COST OF LUMINAIRES.

- NOTES:
- CULVERT AND PEDESTRIAN UNDERPASS LIGHTING WORK COMPLETED IN THE PRIOR GRADING AND STRUCTURES CONTRACT.
  - CONTRACTOR TO INSTALL ELECTRICAL SERVICE FROM THE LIGHTING CONTROLLER TO THE STAINLESS STEEL JUNCTION BOX EMBEDDED IN THE STRUCTURE.

REVISIONS	
NAME	DATE

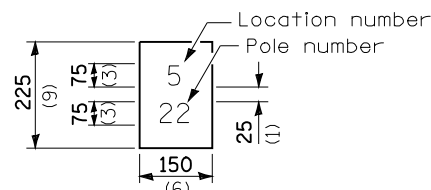
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS -2  
 PEDESTRIAN UNDERPASS  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. HORIZ.  
 DATE: Apr-30-2008 01:57:33PM  
 DRAWN BY: CLG  
 CHECKED BY: JWM

LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JWM	09/17/07



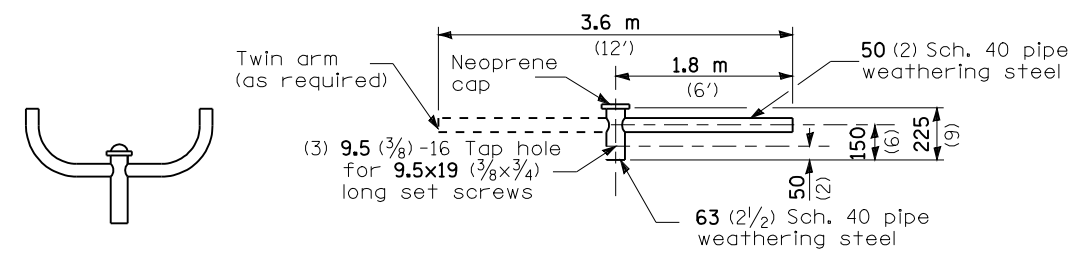
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	285
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a  $\frac{3}{64}$  diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional  $\frac{1}{4}$  to  $\frac{3}{8}$  turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."



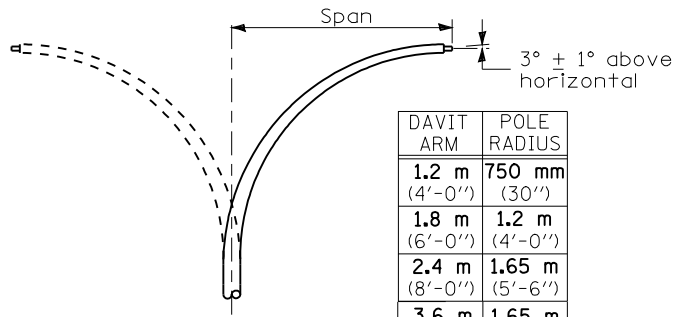
The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

The light pole identification shall be applied to sign base material as specified in the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.

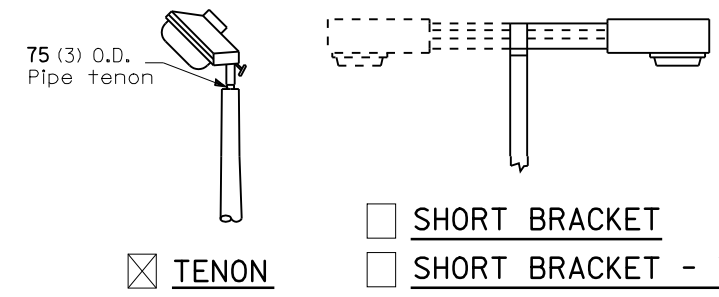


- TWIN TENON
- TENON MOUNT BRACKET ARM

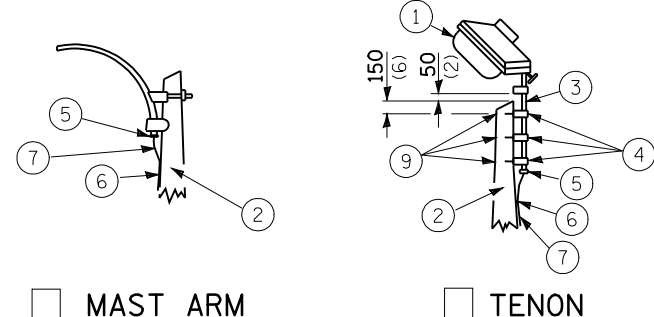
NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



- DAVIT ARM
- DAVIT ARM-TWIN

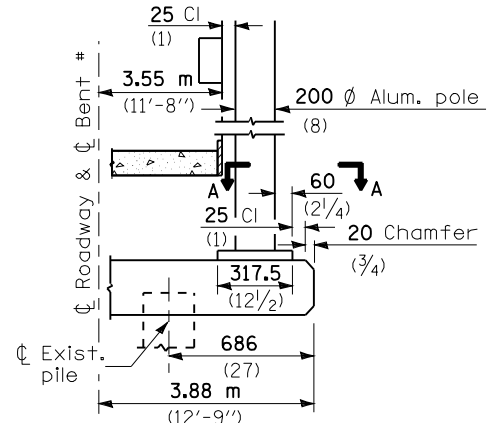


- TENON
- SHORT BRACKET
- SHORT BRACKET - TWIN

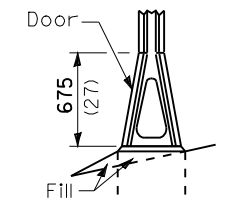


- MAST ARM
- TENON

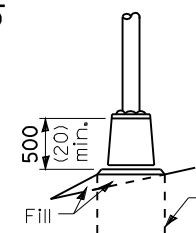
- ① Luminaire
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type use cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length
- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



BENT # (Looking )

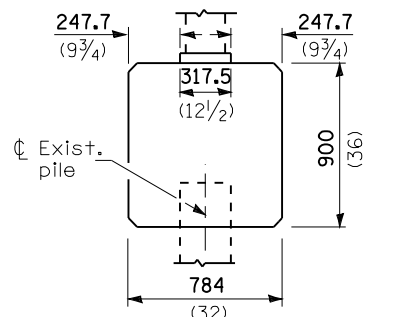


STAINLESS STEEL FLAIR BASE

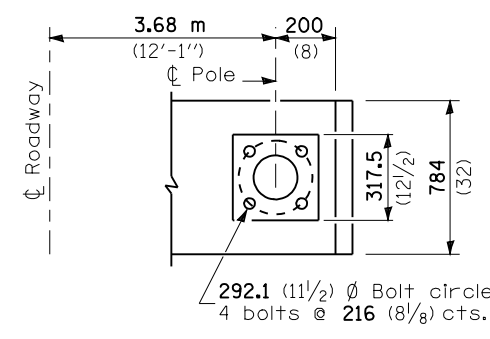


TRANSFORMER BASE

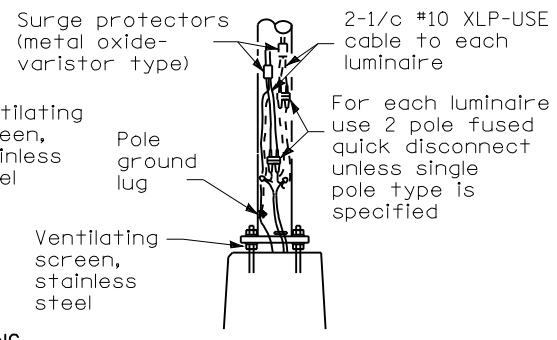
FRANGIBLE



BRIDGE PIER MOUNT



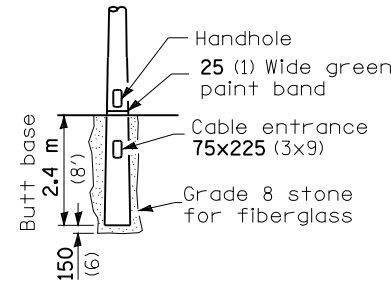
SECTION A-A



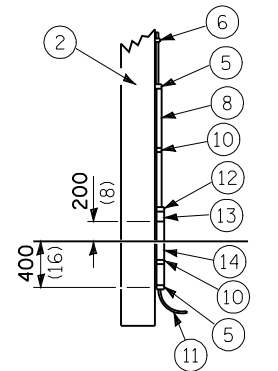
ANCHOR

METAL OR  CONCRETE

Details for underground distribution if required



BUTT BASE



POLE, WOOD

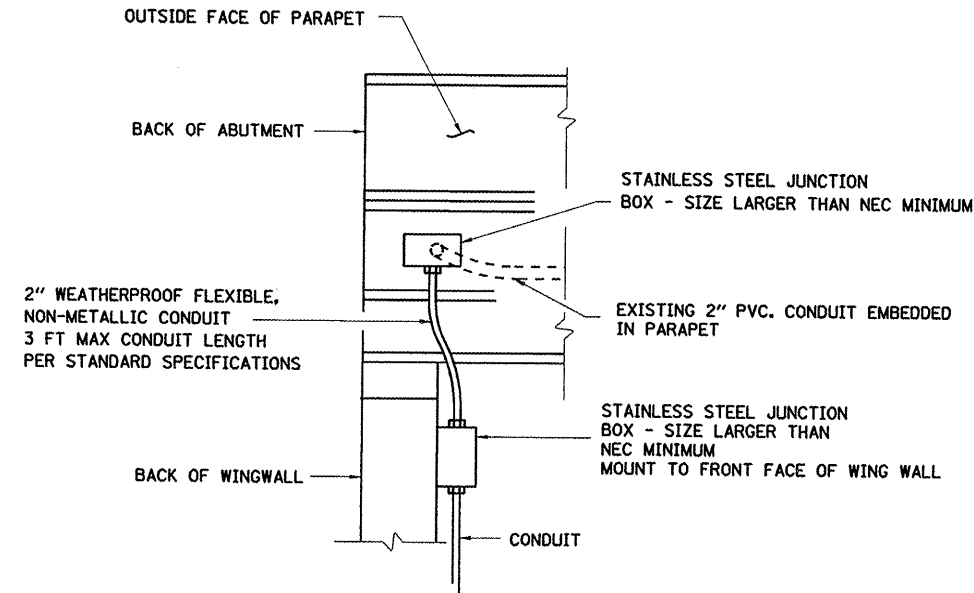
POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

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

REVISIONS	
NAME	DATE

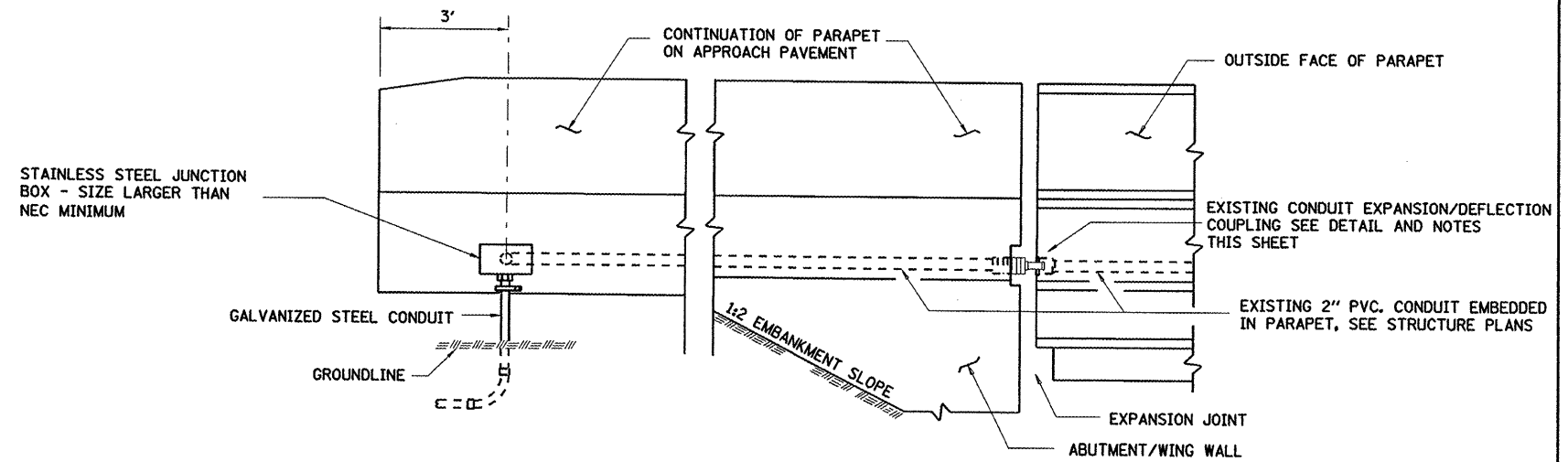
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS -3  
 MACARTHUR BLVD  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. DATE: Apr-30-2008 01:57:35PM  
 DRAWN BY: CHECKED BY:

FAH ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	#	SANGAMON	425	286
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



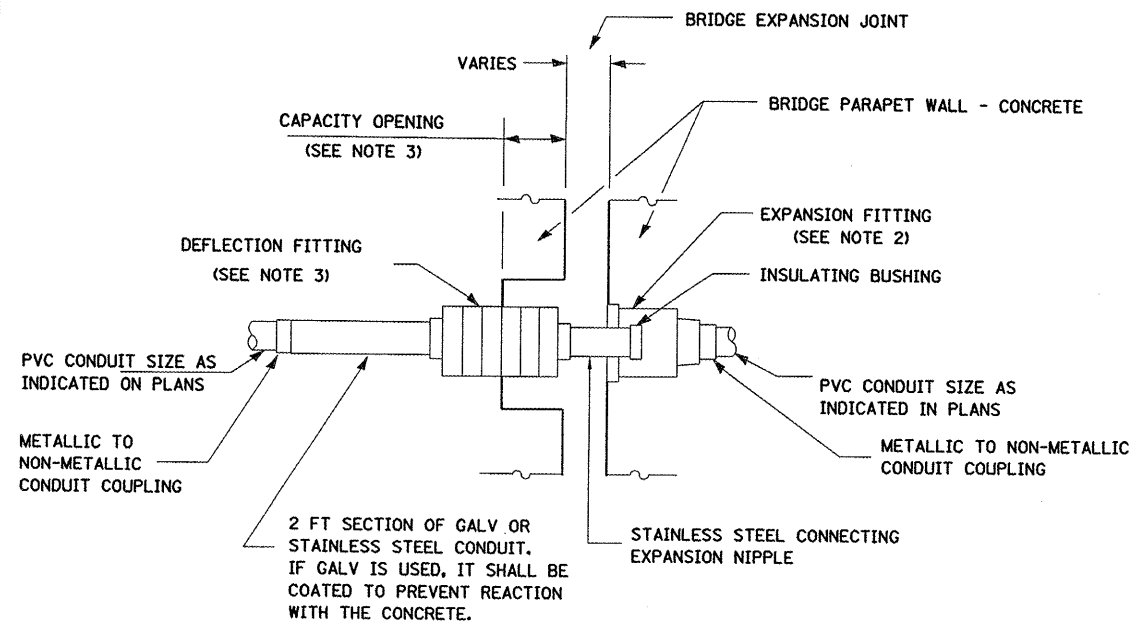
**PARTIAL PARAPET ELEVATION AT ABUTMENT SHOWING CONDUIT ENTRY/EXIT**

TYPICAL BOTH ENDS OF EACH PARAPET FOR S.N. 084-0513  
 TYPICAL BOTH ENDS OF EACH PARAPET FOR S.N. 084-0512



**PARTIAL PARAPET ELEVATION AT ABUTMENT SHOWING CONDUIT ENTRY/EXIT**

TYPICAL BOTH ENDS OF NORTH PARAPET FOR S.N. 084-0516  
 TYPICAL BOTH ENDS OF SOUTH PARAPET FOR S.N. 084-0514



**EXISTING CONDUIT EXPANSION / DEFLECTION COUPLING DETAIL**  
 FOR INFORMATION ONLY

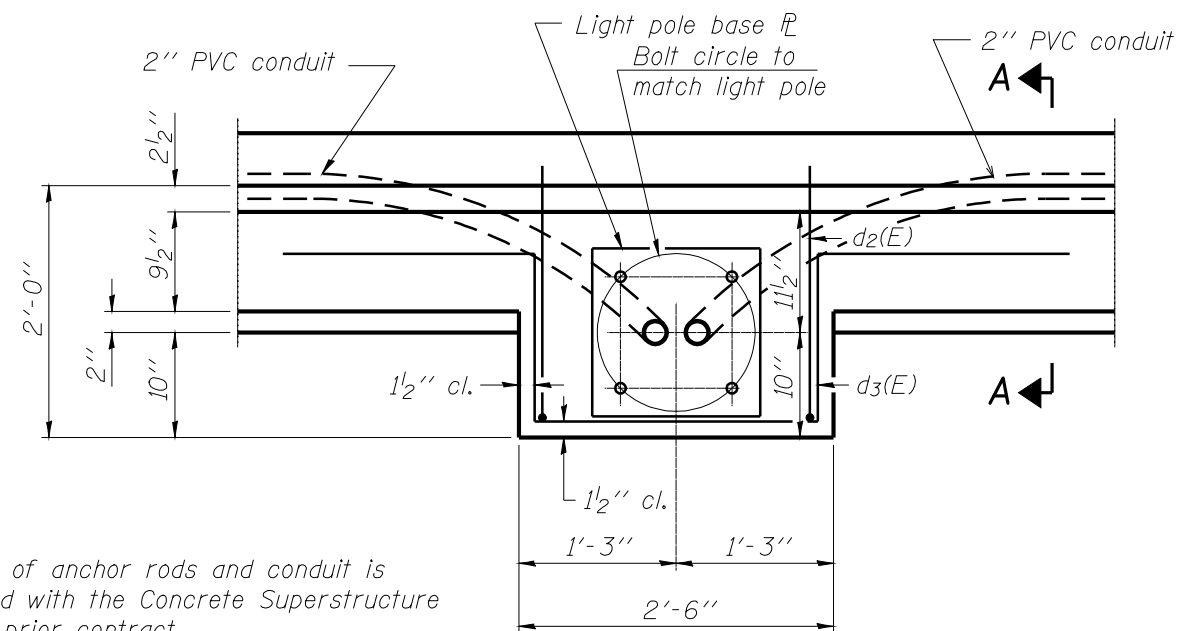
**NOTES**

1. THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION / DEFLECTION COUPLING AT THE JOINTS IN THE CONCRETE PARAPET ON THE BRIDGE CAPABLE OF ACCEPTING THE LONGITUDINAL MOVEMENT. THE METALLIC PARTS OF THE COUPLING SHALL BE MADE OF STAINLESS STEEL OR AS APPROVAL BY THE ENGINEER. THE COST OF THE COUPLING SHALL BE A PART OF AND INCIDENTAL TO THE CONDUIT SYSTEM.
2. THE BARREL IN THE EXPANSION FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT.
3. ONE HALF OF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF THE EXPANSION JOINT. A CAVITY OPENING 3" LARGER THAN THE DIAMETER OF THE DEFLECTION SLEEVE LENGTH SHALL BE PROVIDED TO ENSURE PROPER PERFORMANCE OF THE COUPLING.
4. CAREFUL ATTENTION TO JOINT MOVEMENT OVER A RANGE OF TEMPERATURES SHALL BE COORDINATED WITH THE SELECTION AND INSTALLATION OF THE COUPLING TO ENSURE THE RANGE OF MOVEMENT OF THE COUPLING IS NOT EXCEEDED AT TEMPERATURE EXTREMES.
5. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE CAREFULLY FOLLOWED TO ENSURE OPTIMUM PERFORMANCE OF THE EXPANSION / DEFLECTION COUPLING.
6. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSION JOINTS AND SHALL BE RESPONSIBLE TO DETERMINE THE PROPER NUMBER OF COUPLINGS REQUIRED.
7. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE TWO (2) STAINLESS STEEL JUNCTION BOXES ATTACHED TO THE BACK OF THE WALL AND CONNECTED BY A HIGH GRADE OF FLEXIBLE NON-METALLIC CONDUIT FOR ALL EXPANSION JOINTS. THIS SUBSTITUTION SHALL BE MADE AT NO COST TO THE DEPARTMENT.

REVISIONS	
NAME	DATE

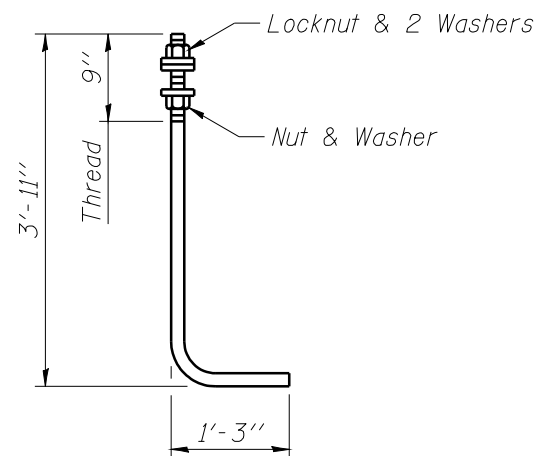
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS -4  
 BRIDGE CROSSING DETAILS  
 LGT001.M32  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE May-19-2008 08:57:30AM  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	287
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



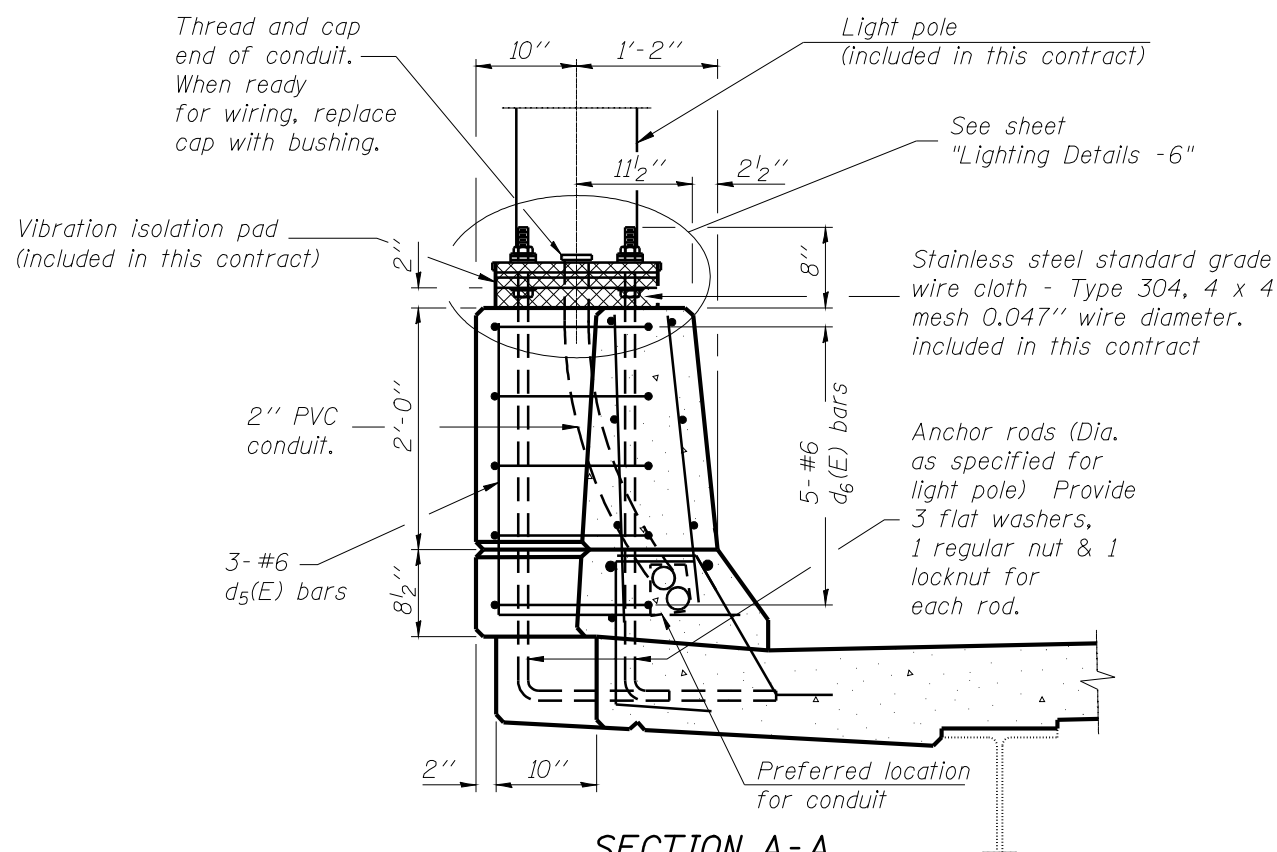
Note:  
Cost of anchor rods and conduit is included with the Concrete Superstructure in the prior contract.

**LIGHT POLE FOUNDATION**  
in bridge parapet

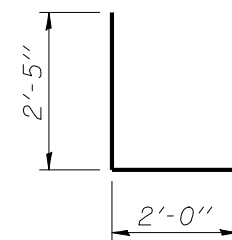


**ANCHOR ROD**

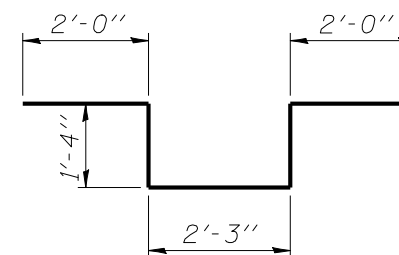
Diameter as specified for light poles.  
(ASTM F 1554 Grade 105)



**SECTION A-A**



**BAR d2(E)**



**BAR d3(E)**

Note:  
Concrete pedestal, reinforcement and anchor rods included in the prior contract

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LIGHTING DETAILS -5  
MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. HORIZ. DATE: Apr-30-2008 01:57:40PM DRAWN BY: CHECKED BY:

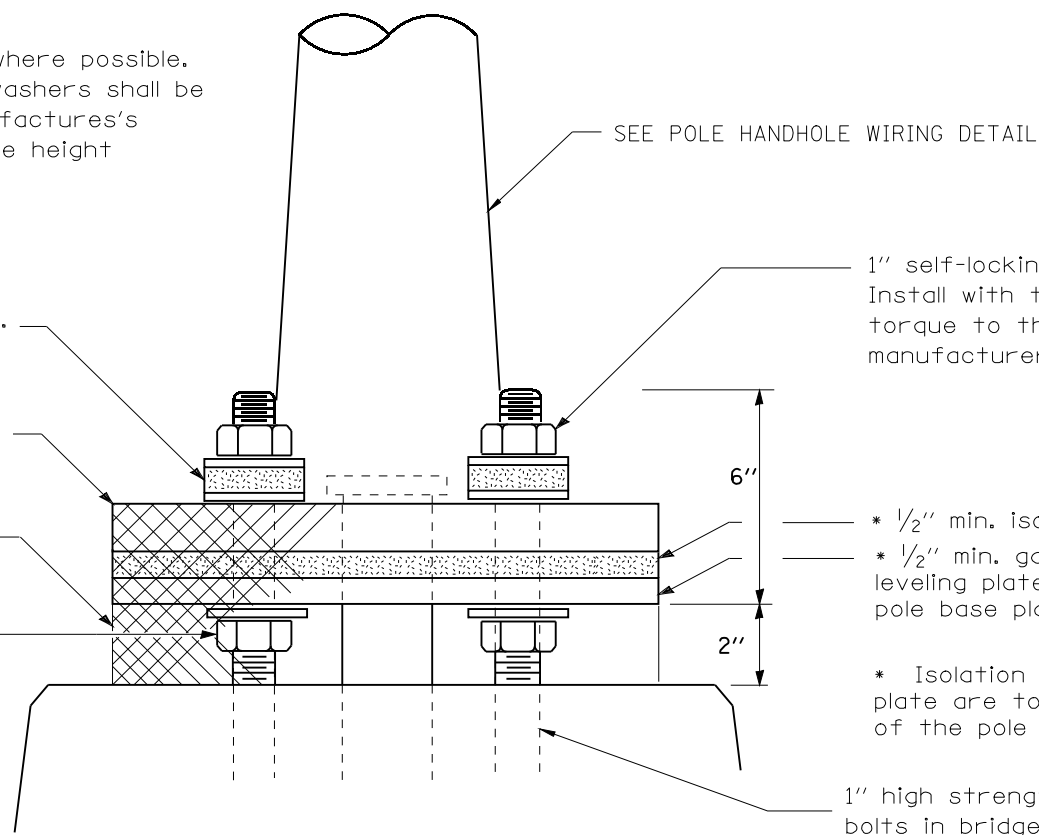
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	288
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

Notes:

- 1) Locate poles over bridge piers where possible.
- 2) Thickness of isolation pad and washers shall be according to isolation pad manufacturer's recommendations based upon pole height and loading.

2 1/2" O.D. x 1/4" galvanized steel flat washer either side of 2 1/2" O.D. x 1/2" isolation washer.

Pole base plate  
Stainless steel standard grade wire cloth Type 304, 102X102 mesh 0.047" diam. Attach with 1/2" stainless steel banding.  
1" leveling nuts

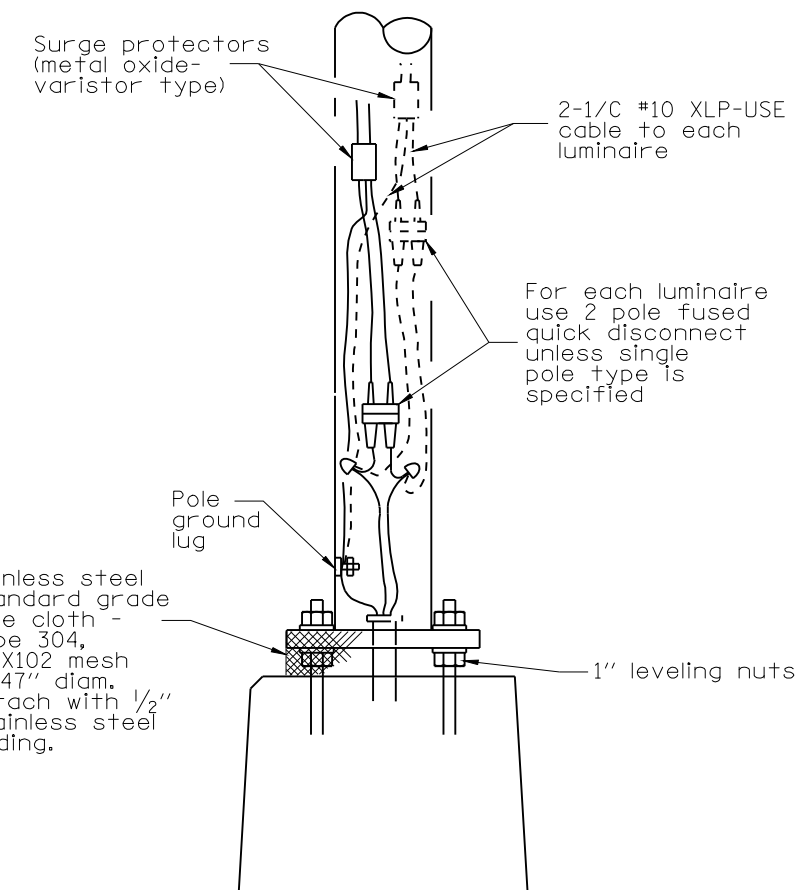


POLE MOUNTED ON BRIDGE PARAPET DETAIL

1" self-locking nut or double nut. Install with torque wrench and torque to the isolation pad manufacturer's specifications.

- \* 1/2" min. isolation pad
- \* 1/2" min. galvanized steel leveling plate. Size to match pole base plate
- \* Isolation pad and leveling plate are to match the footprint of the pole baseplate

1" high strength anchor bolts in bridge parapet.



POLE HANDHOLE WIRING DETAIL

REVISIONS	
NAME	DATE

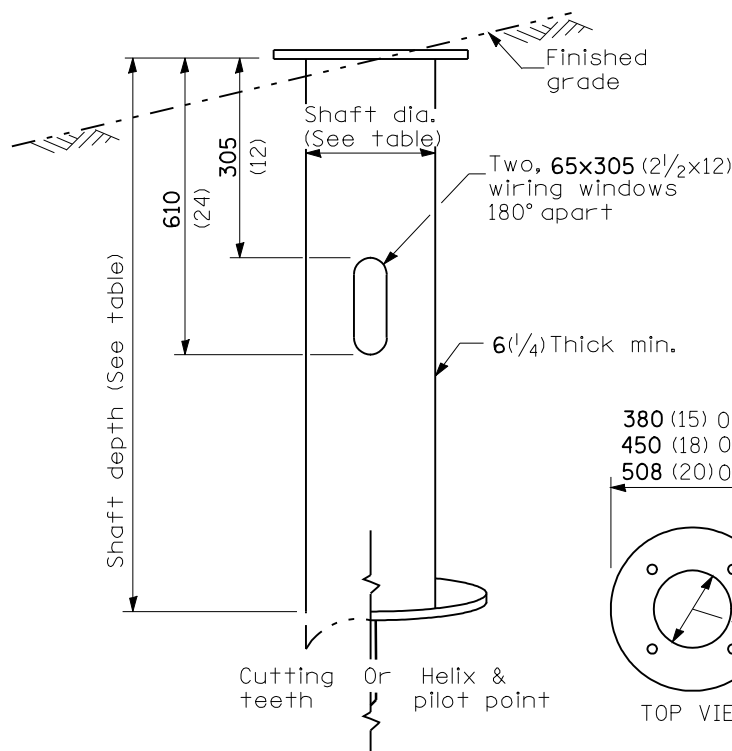
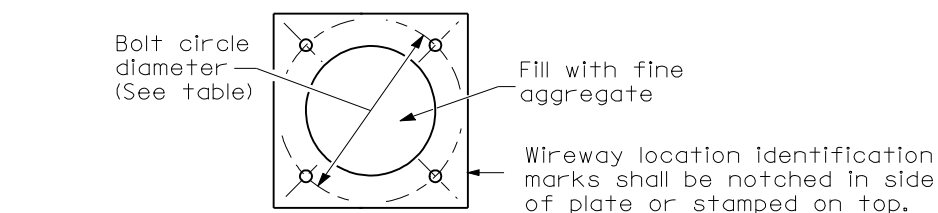
ILLINOIS DEPARTMENT OF TRANSPORTATION  
LIGHTING DETAILS -6  
MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. HORIZ.  
DATE: Apr-30-2008 01:57:42PM  
DRAWN BY:      CHECKED BY:

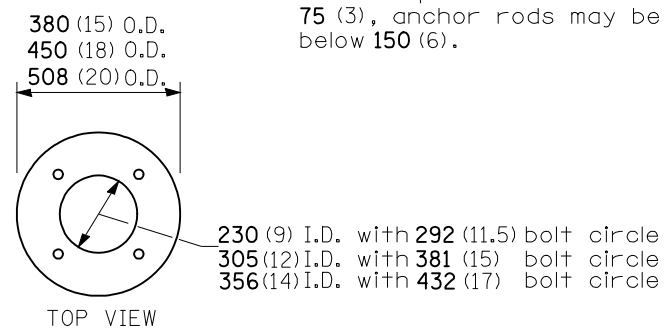
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	289
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
< 9.1 m (30')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8 5/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



**STEEL FOUNDATION**



**RING PLATE DETAIL**

(When rock is encountered and foundation is shallower)

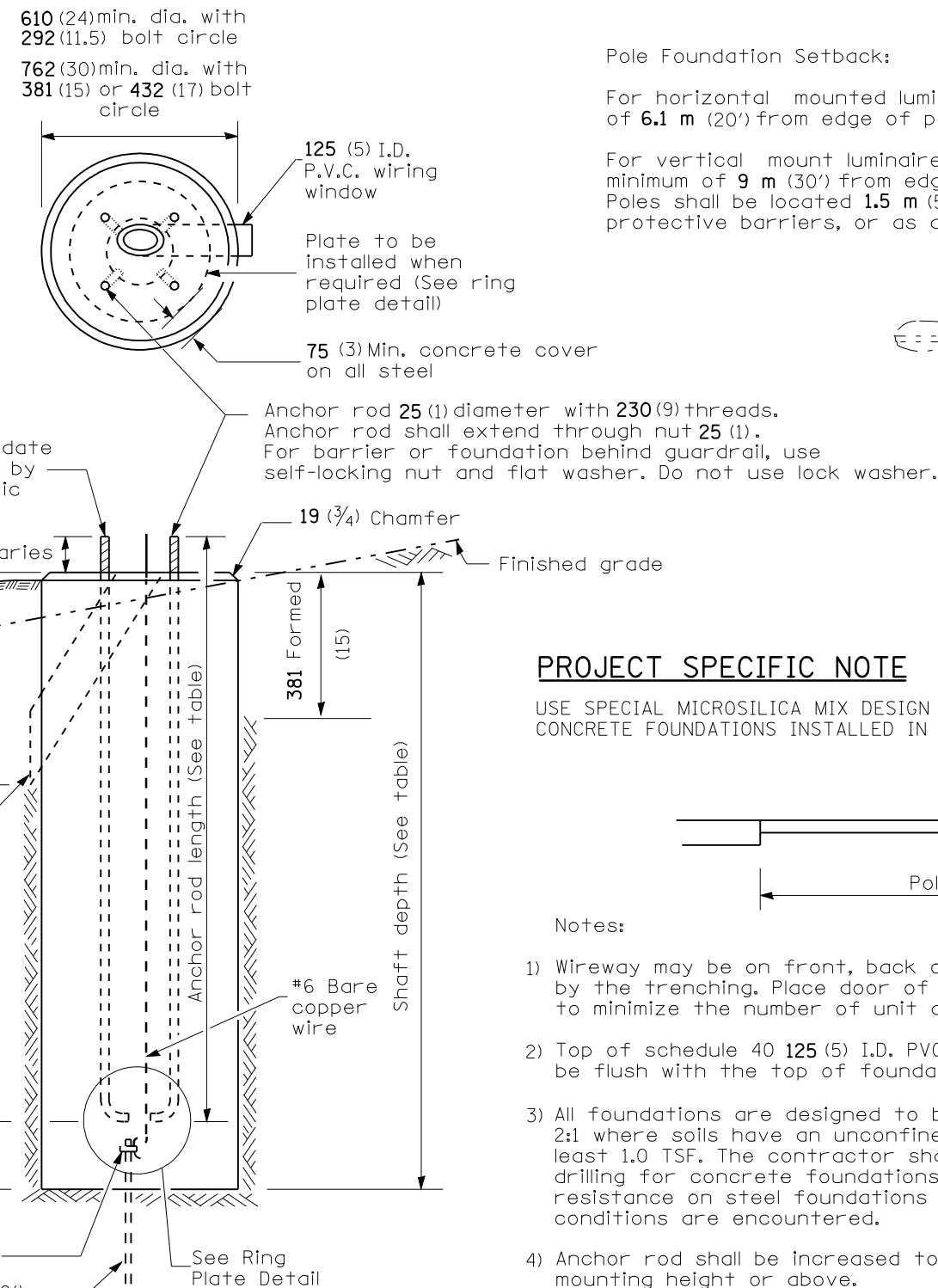
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

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

- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).

Cast bronze clamp  
16 mm x 3 m (5/8" x 10') Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

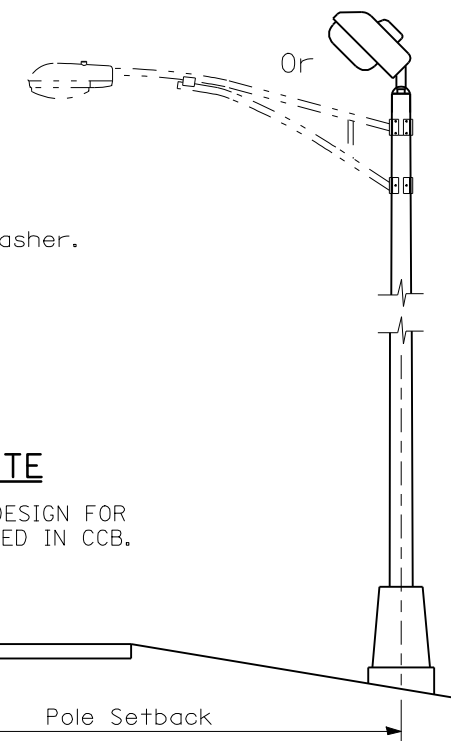
**CONCRETE FOUNDATION**



**Pole Foundation Setback:**

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.



**PROJECT SPECIFIC NOTE**

USE SPECIAL MICROSILICA MIX DESIGN FOR CONCRETE FOUNDATIONS INSTALLED IN CCB.

**Notes:**

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

REVISIONS	
NAME	DATE

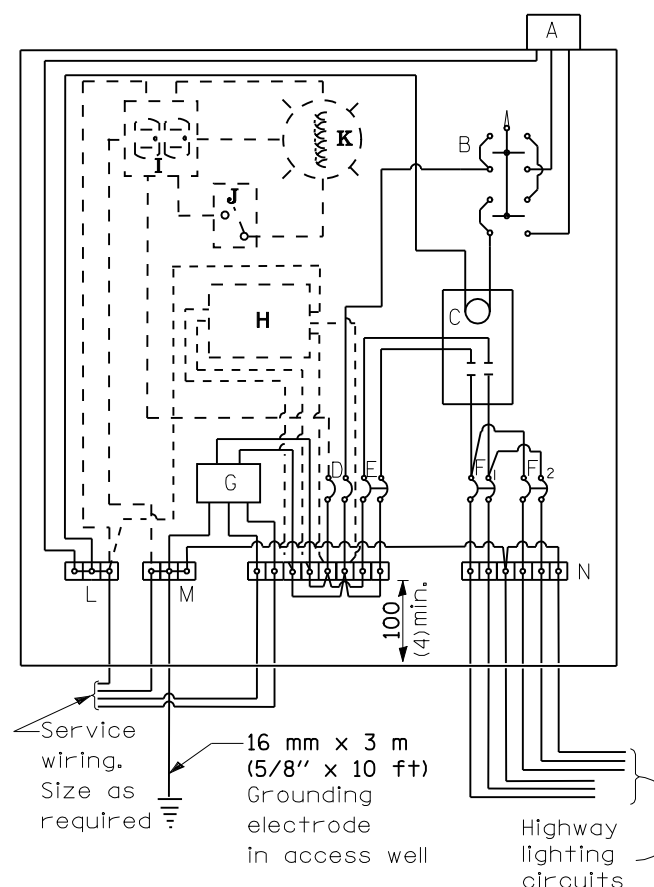
ILLINOIS DEPARTMENT OF TRANSPORTATION  
LIGHTING DETAILS -7  
LIGHT POLE FOUNDATION  
LGT007.836  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. HORIZ. DATE: Apr-30-2008 01:57:44PM DRAWN BY: CHECKED BY:

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

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

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	290
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



- ### MATERIALS
- A Photocell w/ integral surge arrester (remote mount in urban areas)
  - B 3 position selector switch HAND-OFF-AUTO
  - C 100 amp\* electrically held contactor, 120V operating coil
  - D 15 amp, 1 pole, circuit breaker
  - E 100 amp\*, 2 pole, main circuit breaker
  - F 20 amp\*, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
  - G Surge arrester
  - H Transformer (see notes), 1 KVA\*, 240/480V primary, 120/240V sec, single phase
  - I GFCI duplex receptacle
  - J Single pole, single throw switch
  - K Shielded security fixture with 100W lamp
  - L Neutral bar
  - M Equipment ground bar
  - N Terminal block (typ)
- (\* = Size larger as needed)

CONTROL SCHEMATIC

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, when specified.

For 480 V service, a step down transformer (dashed lines) is required.

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

Label equipment ground buss and neutral buss.

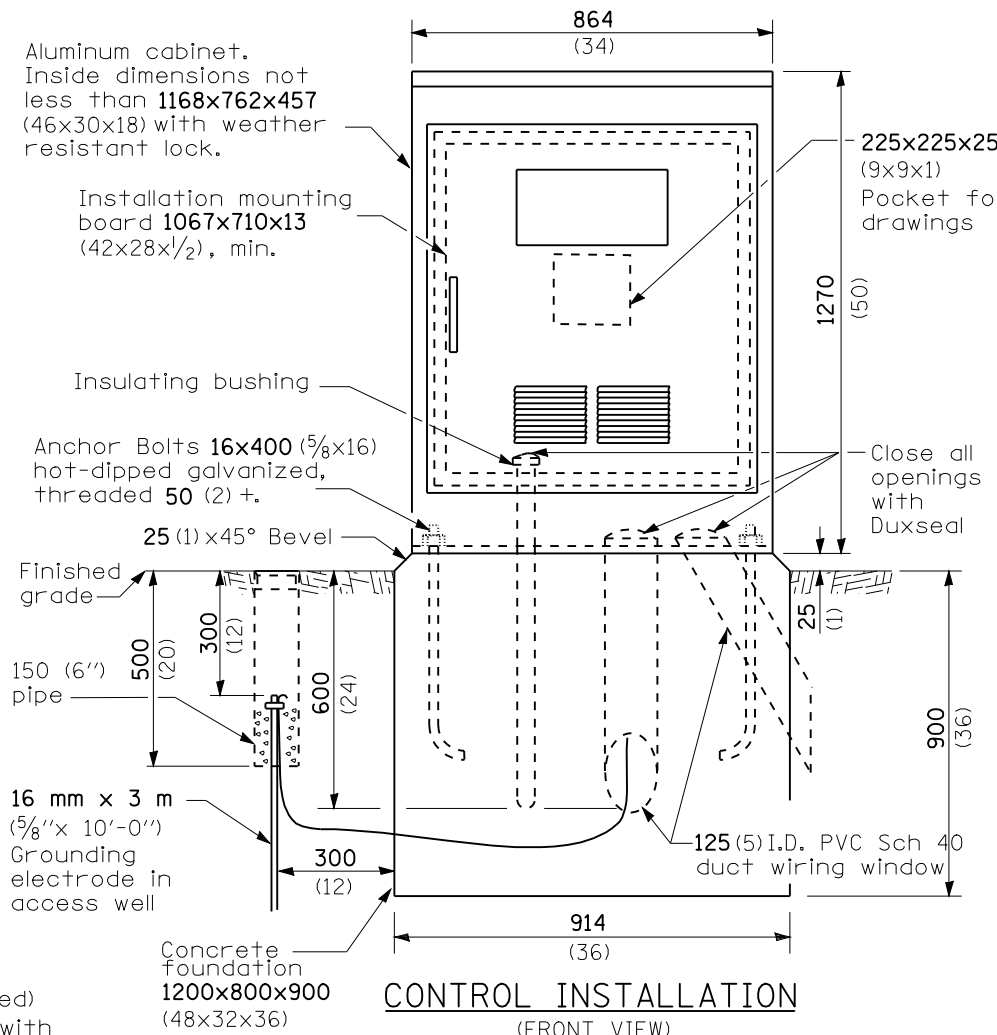
- (2) 240 V. SERVICE
- (1) 480 V. SERVICE

REVISIONS	
NAME	DATE

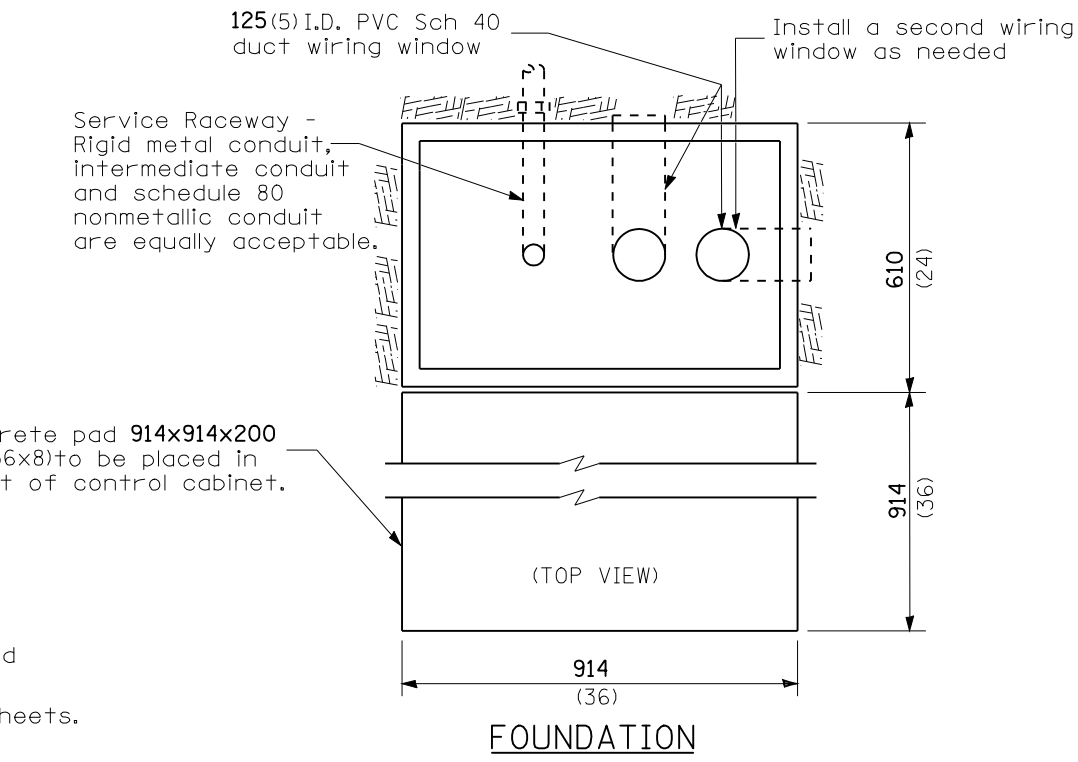
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS -8  
 CONTROL INSTALLATION  
 LGT005  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. DATE: Apr-30-2008 01:57:47PM  
 HORIZ. DRAWN BY: CHECKED BY:

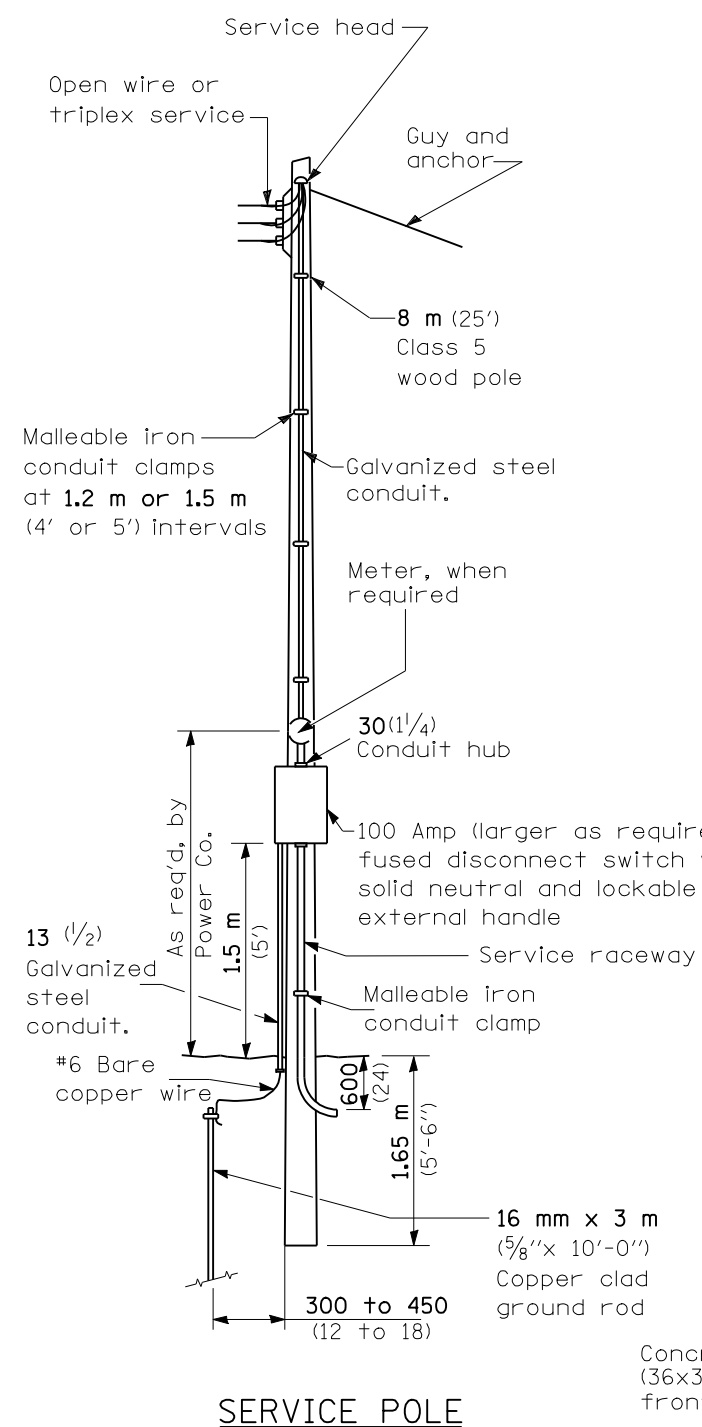
Corrected 1/19/06



CONTROL INSTALLATION (FRONT VIEW)



FOUNDATION



SERVICE POLE

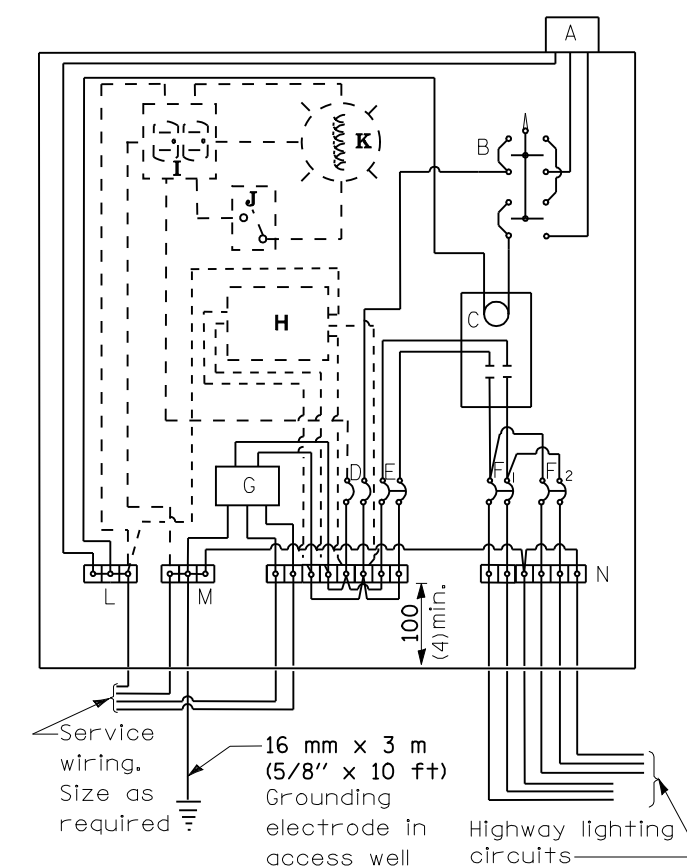
PROJECT SPECIFIC NOTE

Electric service installations will be connected to cwp and will be located in the vicinity of each lighting controller. Not shown on plan sheets.

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	291
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				

**MATERIALS**

- A Photocell w/ integral surge arrester (remote mount in urban areas)
  - B 3 position selector switch HAND-OFF-AUTO
  - C 2 pole, 100 amp\*, electrically held contactor, 120V operating coil
  - D 15 amp, 1 pole, circuit breaker
  - E 60 amp\*, 2 pole, main circuit breaker
  - F 20 amp\*, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
  - G Surge arrester
  - H Transformer (see notes), 1 KVA\*, 240/480V primary, 120/240V sec, single phase
  - I GFCI duplex receptacle
  - J Single pole, single throw switch
  - K Shielded security fixture with 100W lamp
  - L Neutral bar
  - M Equipment ground bar
  - N Terminal block (typ)
- (\* = Size larger as needed)



**CONTROL SCHEMATIC**

**GENERAL NOTES**

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, when specified.

For 480 V service, a step down transformer (dashed lines) is required.

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

Label equipment ground buss and neutral buss.

- 240 V. SERVICE
  - 480 V. SERVICE
- CB-RCS-60-240

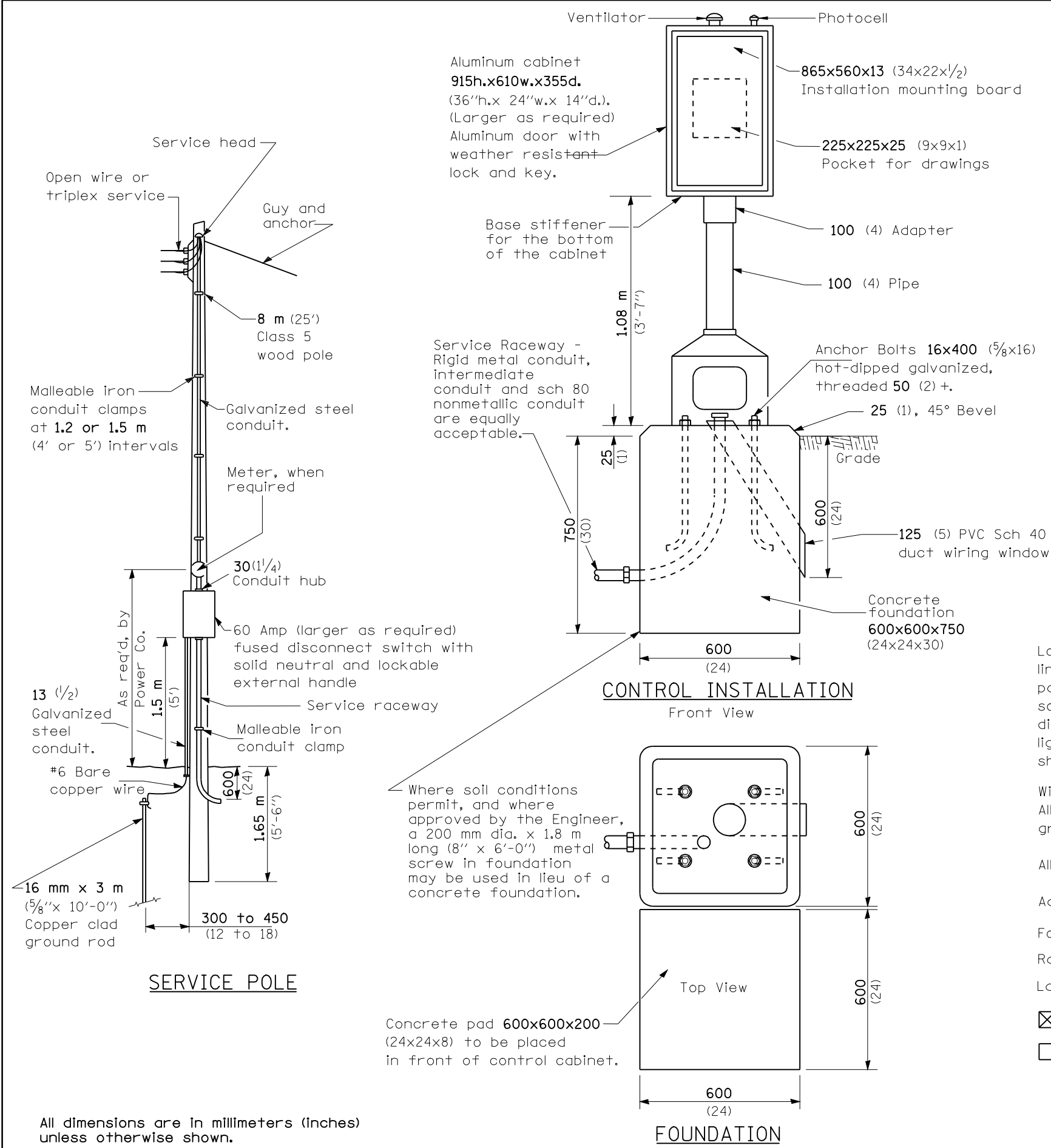
DATE	REVISIONS
1/20/06	Corrected
1/31/08	Cabinet size increased

**PEDESTAL MOUNT DETAIL**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS -9  
 CONTROL INSTALLATION  
 LGT006  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

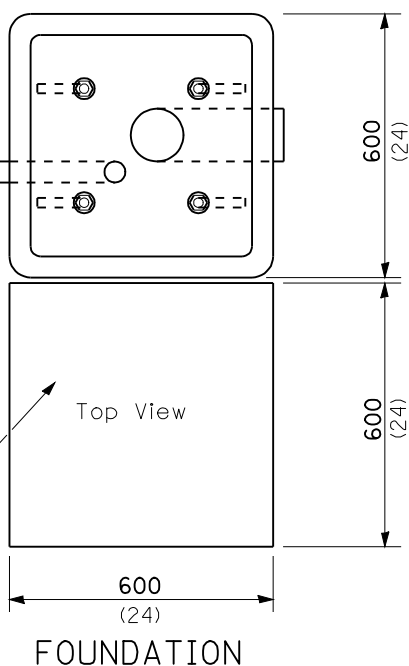
SCALE: VERT. HORIZ.  
 DATE: Apr-30-2008 01:57:49PM

DRAWN BY  
 CHECKED BY



**CONTROL INSTALLATION**

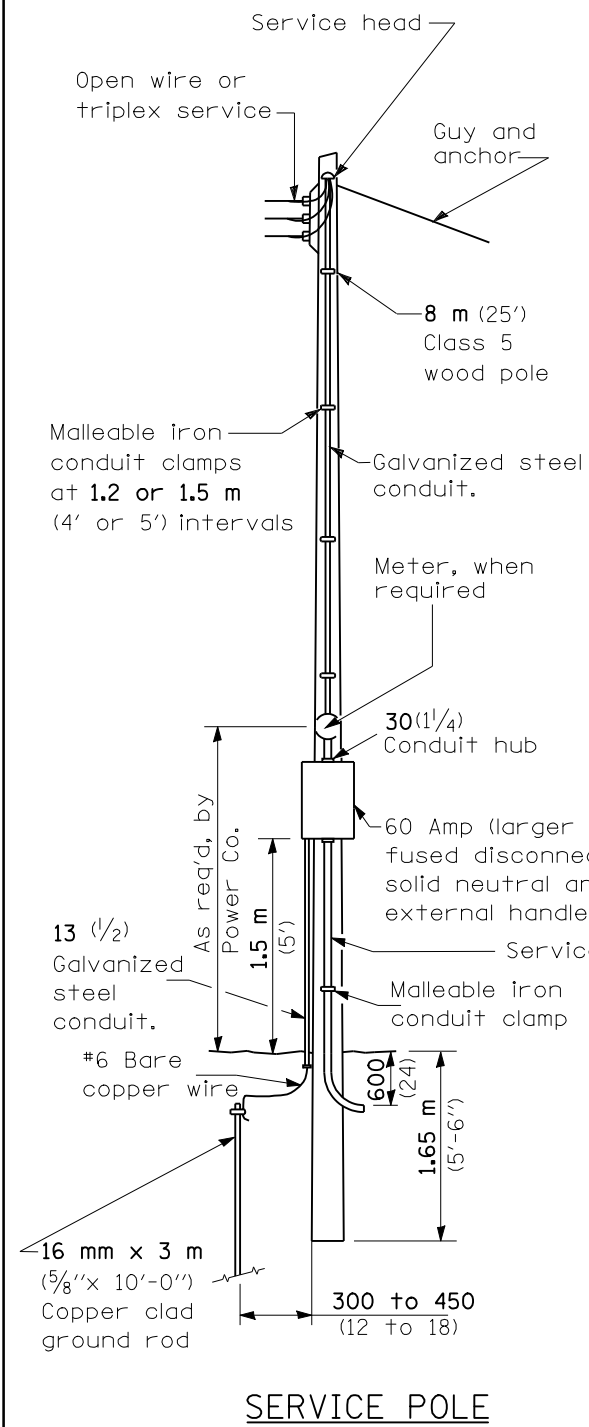
Front View



**FOUNDATION**

Where soil conditions permit, and where approved by the Engineer, a 200 mm dia. x 1.8 m long (8" x 6'-0") metal screw in foundation may be used in lieu of a concrete foundation.

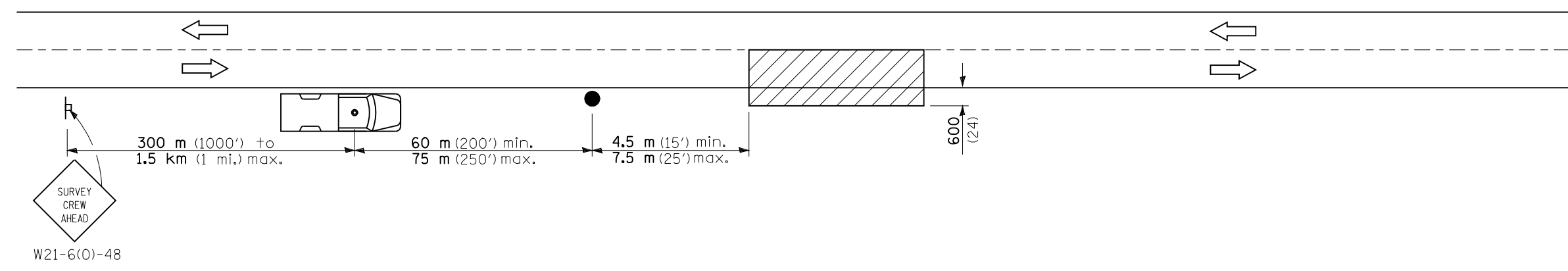
Concrete pad 600x600x200 (24x24x8) to be placed in front of control cabinet.



**SERVICE POLE**


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

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	292
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



SYMBOLS

 Work area

 Sign on portable or permanent support

 Truck with flashing amber light and dual emergency flashers

 Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

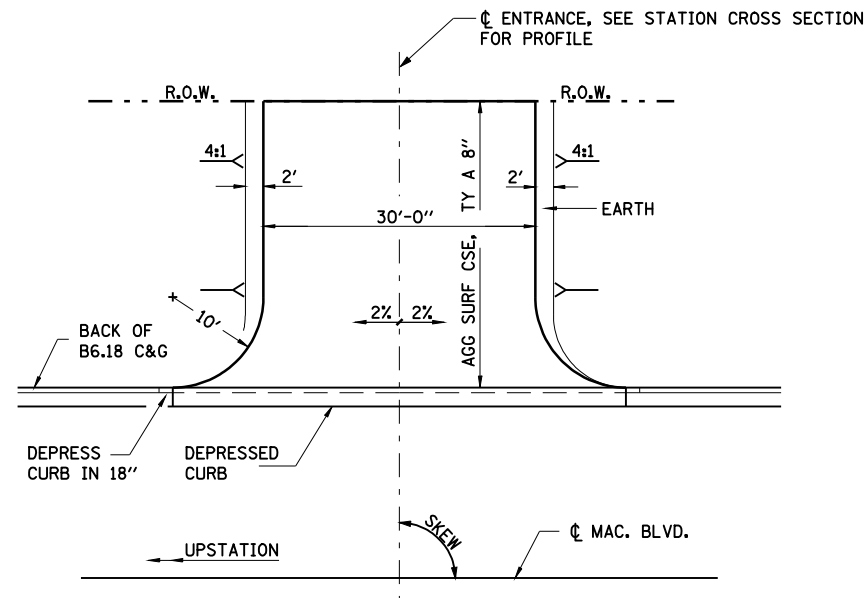
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS -10  
 NIGHTTIME LIGHTING INSPECTION  
 LGT017.M32  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Apr-30-2008 01:57:52PM  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

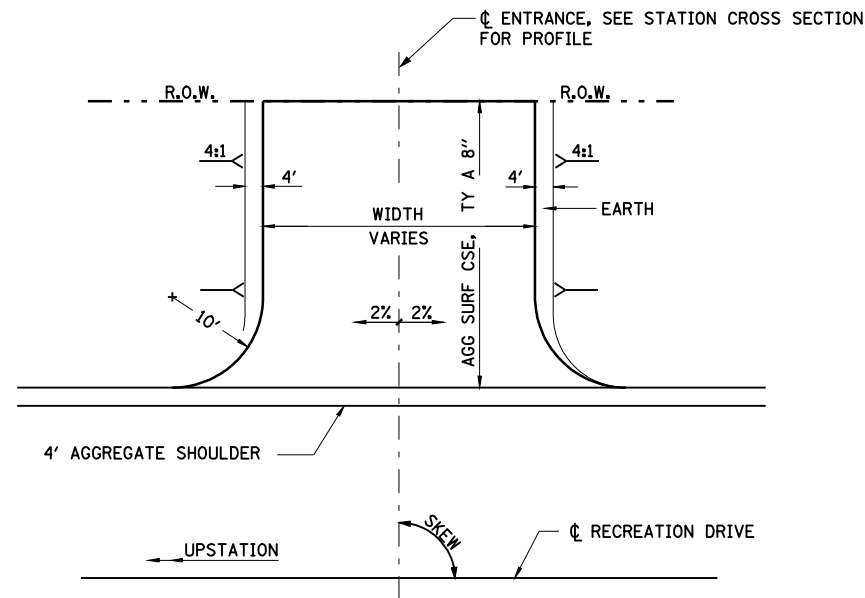
All dimensions are in millimeters (inches) unless otherwise shown.



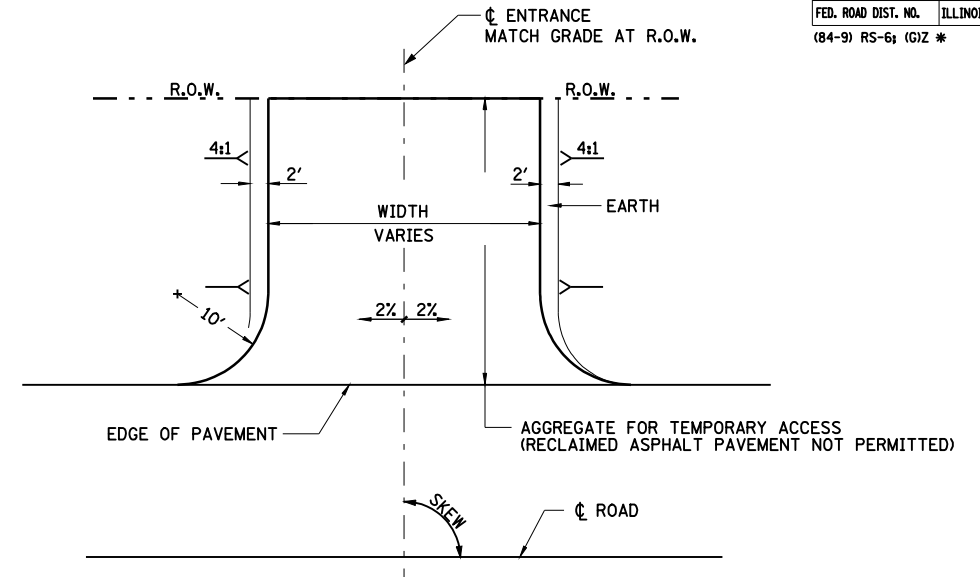
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	293
STA. 8071		TO STA. 8072		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



TYPICAL FIELD ENTRANCE TYPE 1



TYPICAL FIELD / COMMERCIAL ENTRANCE TYPE 2



TYPICAL FIELD / PRIVATE ENTRANCE TYPE 3

(APPLICABLE TO ENTRANCE ALONG WEST GRAND AVENUE AND HAZEL DELL ROAD AS DIRECTED BY THE ENGINEER)

ENTRANCE SCHEDULE

ROADWAY	STATION	L/R	SKEW	TYPE	WIDTH
MAC. BLVD.	770+31.70	RT.	110°	1	30'
REC. DRIVE	115+00.00	LT.	90°	2	30'
REC. DRIVE	115+00.00	RT.	90°	2	30'
REC. DRIVE	126+15.40	LT.	90°	2	30'
REC. DRIVE	126+85.20	LT.	90°	2	16'

GENERAL NOTES

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES. SIDE ROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

REVISIONS	
NAME	DATE

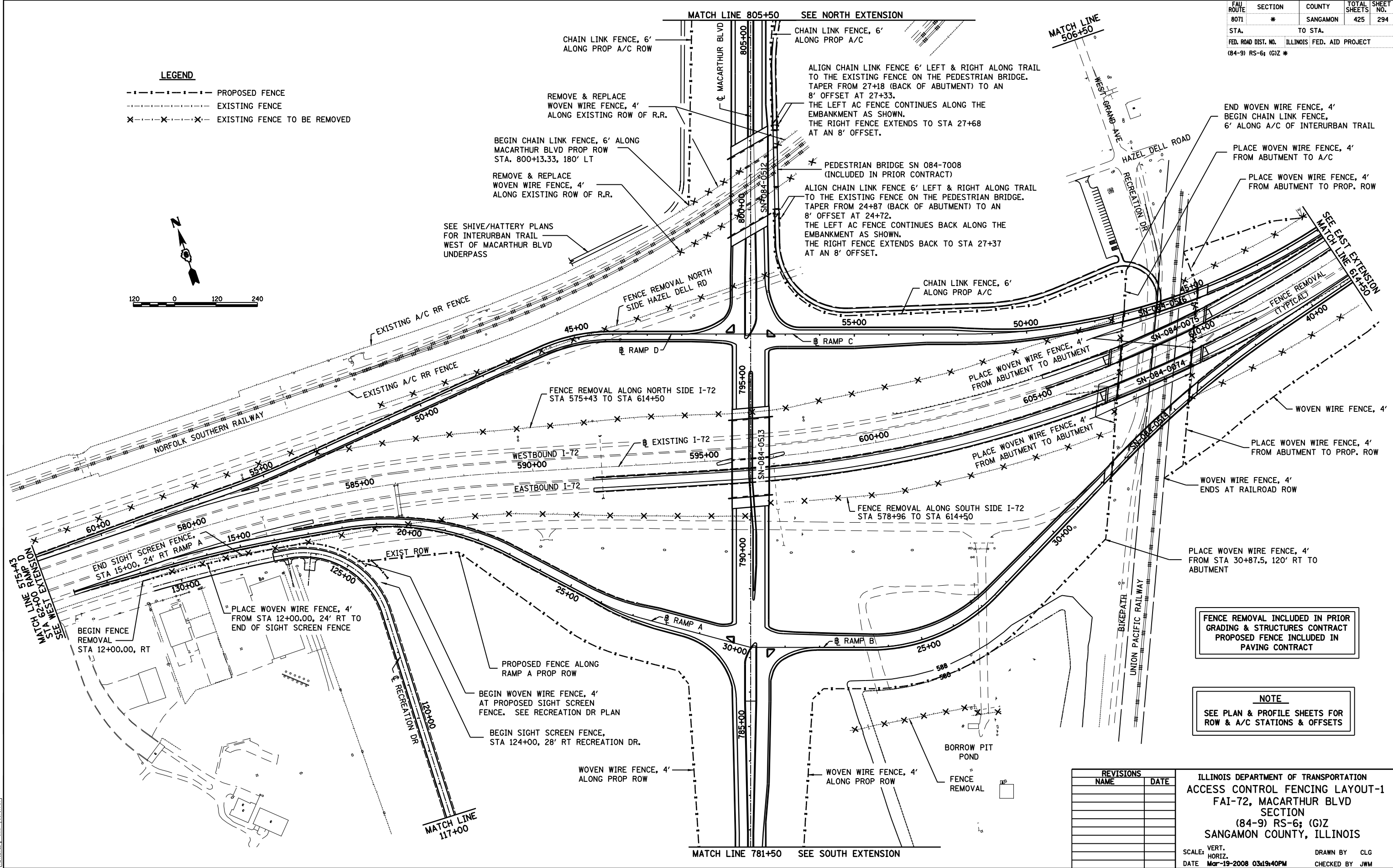
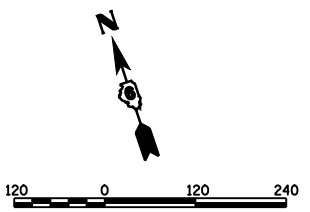
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ENTRANCE DETAILS  
 FAI-72, MACARTHUR BLVD  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-19-2008 03:19:32PM  
 DRAWN BY: CLG  
 CHECKED BY: JAD

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	294
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

**LEGEND**

- - - - - PROPOSED FENCE
- - - - - EXISTING FENCE
- × - - - - EXISTING FENCE TO BE REMOVED



FENCE REMOVAL INCLUDED IN PRIOR GRADING & STRUCTURES CONTRACT PROPOSED FENCE INCLUDED IN PAVING CONTRACT

**NOTE**  
SEE PLAN & PROFILE SHEETS FOR ROW & A/C STATIONS & OFFSETS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ACCESS CONTROL FENCING LAYOUT-1  
FAI-72, MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. HORIZ.  
DATE: Mar-19-2008 03:19:40PM

DRAWN BY: CLG  
CHECKED BY: JWM

PLAN	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK NO. _____	PLOTTED	DATE
DATE _____	BY _____	_____
NO. _____	RT. OF WAY CHECKED	DATE
DATE _____	BY _____	_____
NO. _____	ADD FILE NAME	DATE
DATE _____	BY _____	_____



PROFILE	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK NO. _____	PLOTTED	DATE
DATE _____	BY _____	_____
NO. _____	RT. OF WAY CHECKED	DATE
DATE _____	BY _____	_____
NO. _____	STRUCTURE NOTATIONS CHKD	DATE
DATE _____	BY _____	_____

LAYOUT	CLG	09/17/01
DRAWN	CLG	09/17/01
REVIEWED	JMM	09/17/01
DATE	Mar-19-2008	03:19:40PM
FILE #	\$FILE#	

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	295
STA. 8071 TO STA. 8072				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

**LEGEND**

- - - - - PROPOSED FENCE
- - - - - EXISTING FENCE
- × - - - - × EXISTING FENCE TO BE REMOVED



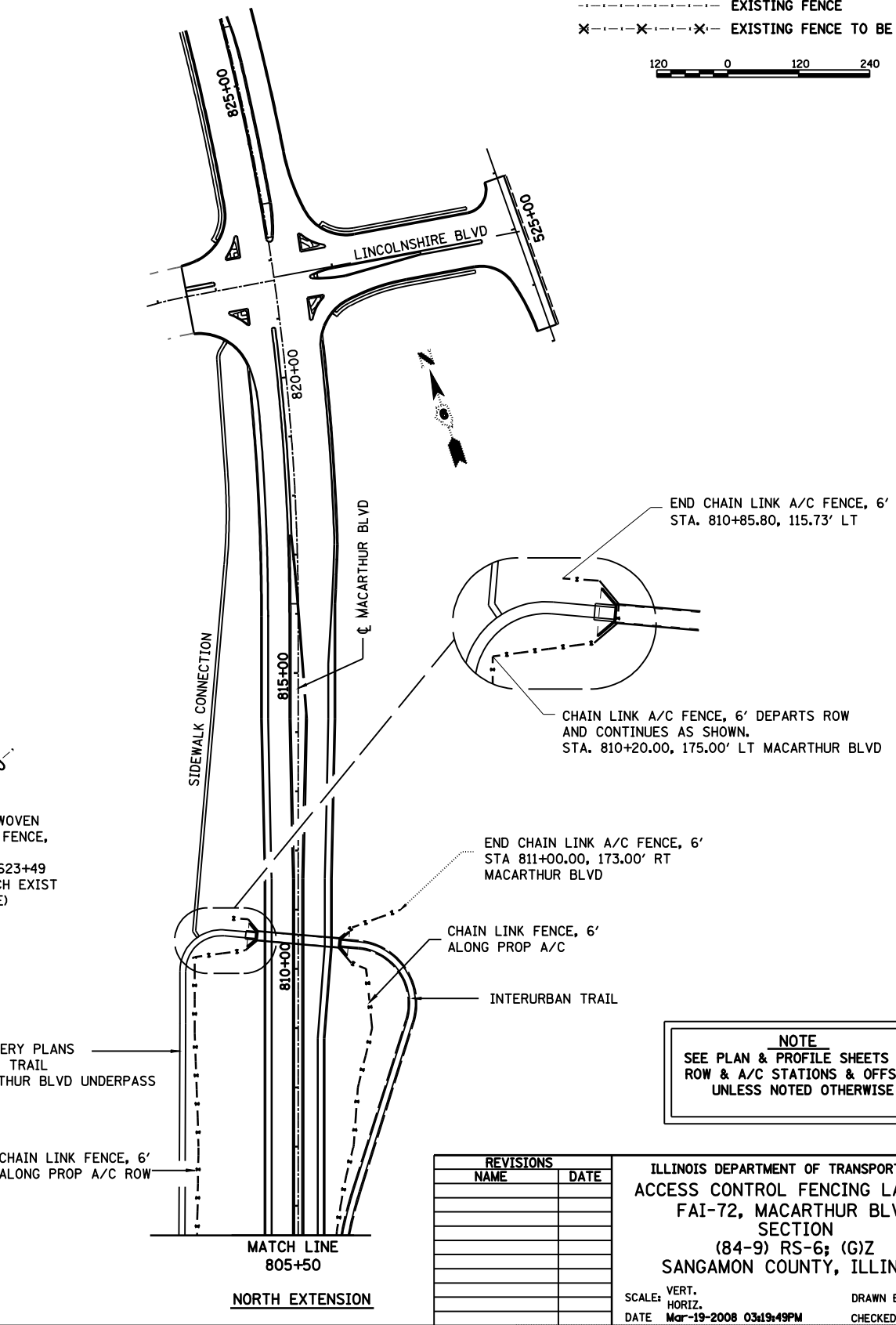
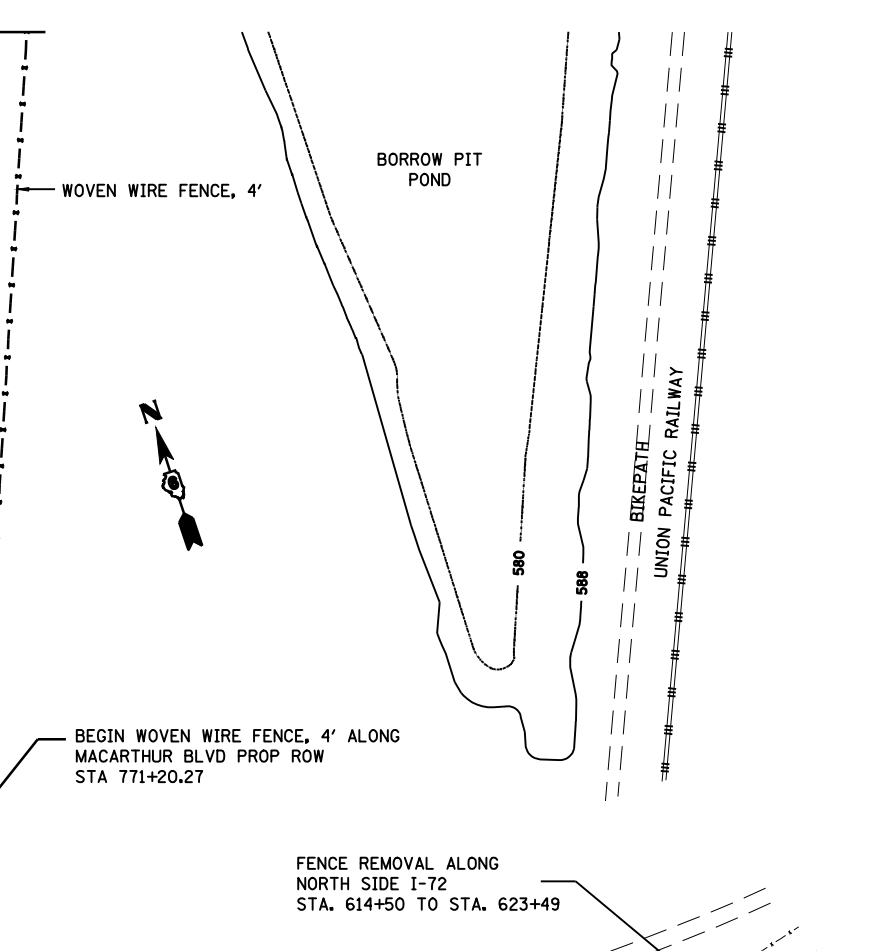
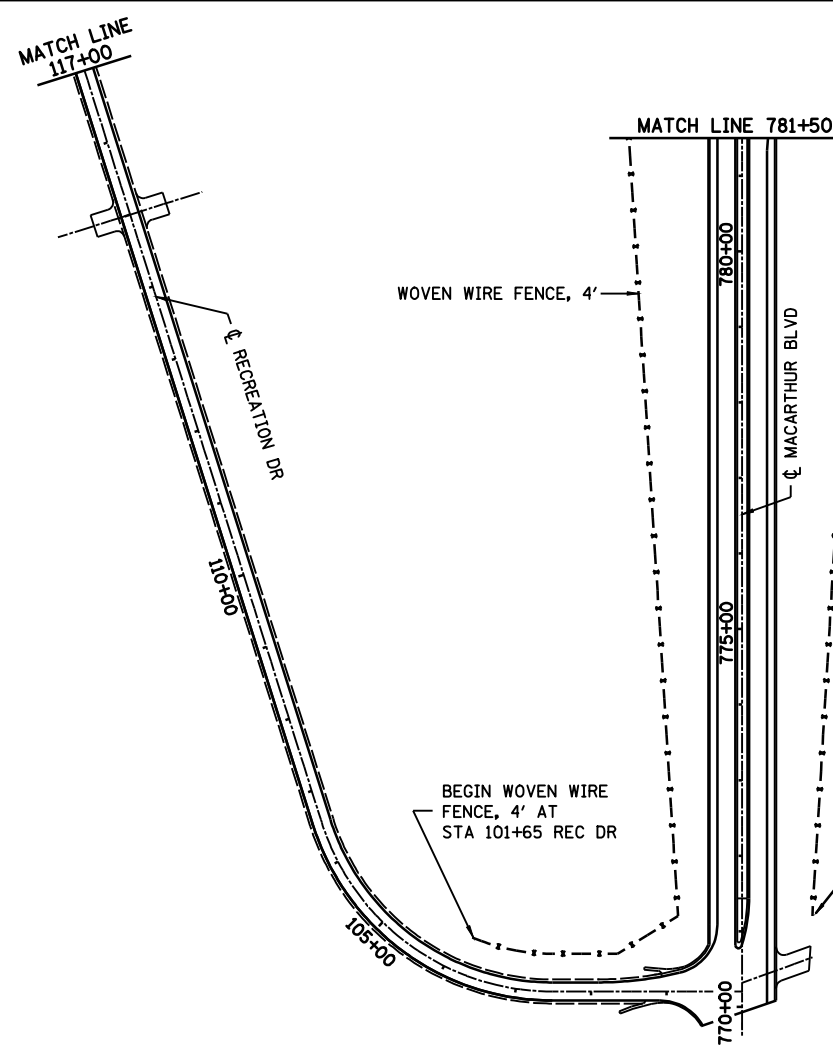
FENCE REMOVAL INCLUDED IN PRIOR GRADING & STRUCTURES CONTRACT  
 PROPOSED FENCE INCLUDED IN PAVING CONTRACT

PLAN	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	

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PROFILE	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	

LAYOUT	CLG	05/17/07
DRAWN	CLG	05/17/07
REVIEWED	JMM	05/17/07



**NOTE**  
 SEE PLAN & PROFILE SHEETS FOR ROW & A/C STATIONS & OFFSETS

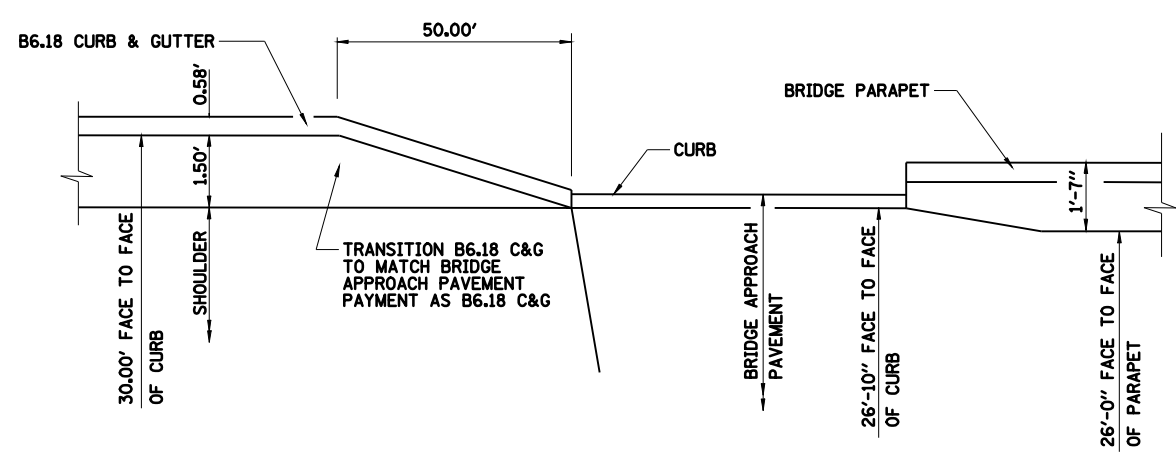
**NOTE**  
 SEE PLAN & PROFILE SHEETS FOR ROW & A/C STATIONS & OFFSETS UNLESS NOTED OTHERWISE

REVISIONS	
NAME	DATE

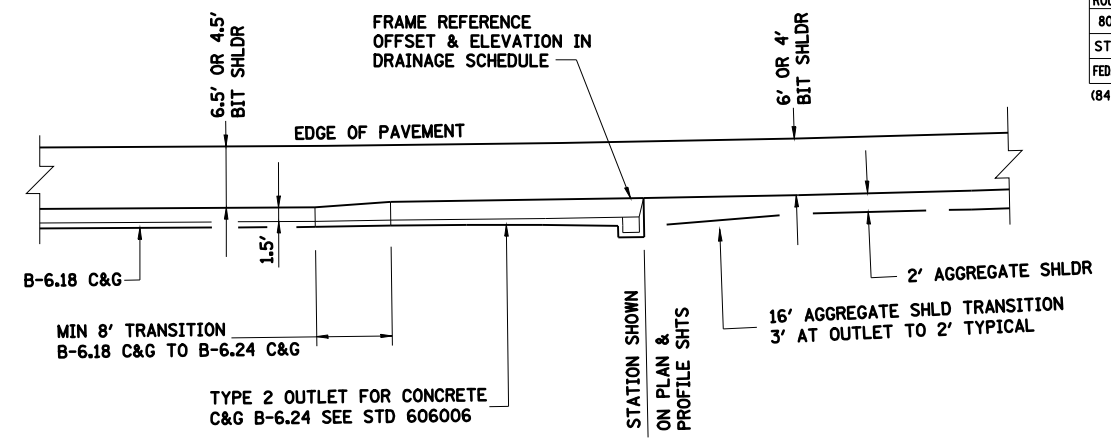
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ACCESS CONTROL FENCING LAYOUT-2  
 FAI-72, MACARTHUR BLVD SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT.     DRAWN BY CLG  
 HORIZ.     CHECKED BY JMM  
 DATE Mar-19-2008 03:19:49PM

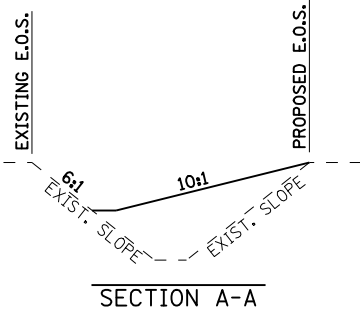
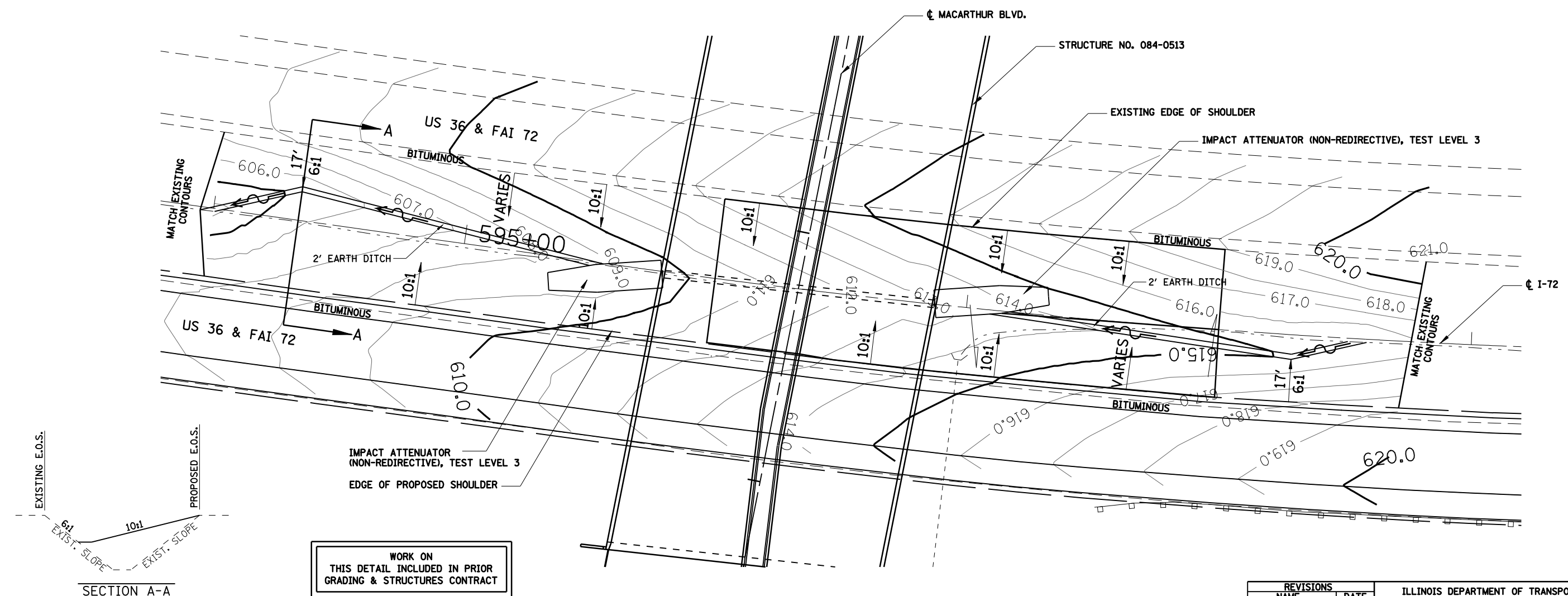
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	296
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



**PLAN**  
**CURB & GUTTER TRANSITION AT BRIDGE APPROACH PAVEMENT**  
**AT RAMP B&C STRUCTURES**



**PLAN**  
**SHOULDER & CURB & GUTTER TRANSITIONS AT OUTLET STD 606006 LOCATIONS**  
 NOT TO SCALE



WORK ON THIS DETAIL INCLUDED IN PRIOR GRADING & STRUCTURES CONTRACT

**GRADING FOR IMPACT ATTENUATOR**  
**STRUCTURE NO. 084-0513**

- GENERAL NOTES:**
- ALL 10:1 SLOPES SHOWN ON THIS DETAIL SHEET SHALL BE CONSTRUCTED 10:1 OR FLATTER.
  - SLOPES VARY TO MATCH EXISTING. SEE PLAN ABOVE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ROADWAY DETAILS  
 FAI-72, MACARTHUR BLVD  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

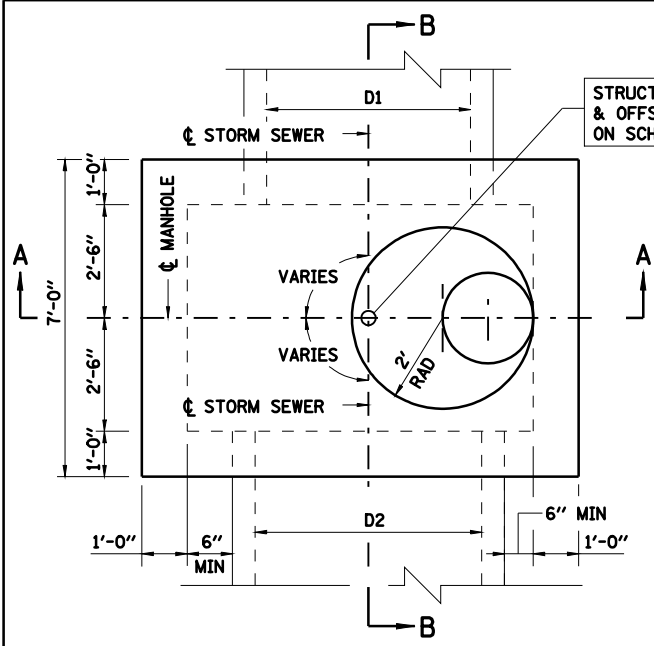
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 HORIZ. \_\_\_\_\_  
 DATE: Mar-19-2008 03:19:55PM

DRAWN BY: CLG  
 CHECKED BY: JAD

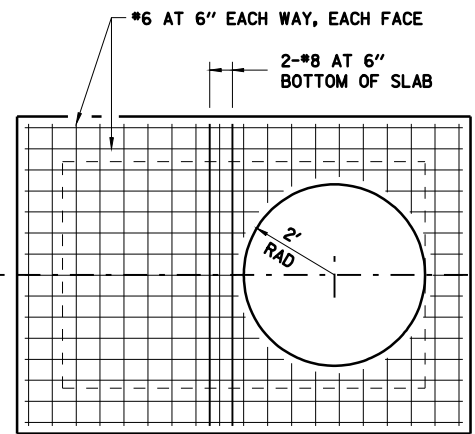
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LAYOUT	CLG	09/17/07
DRAWN	CLG	09/17/07
REVIEWED	JMM	09/17/07

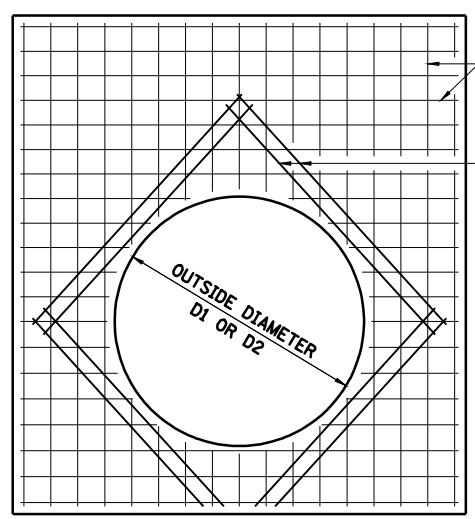
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	297
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



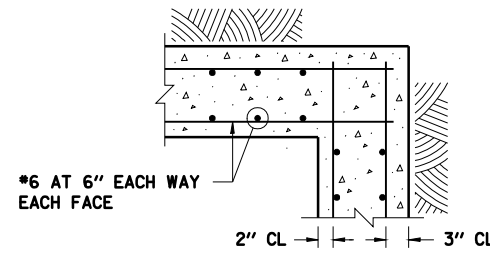
**MANHOLE SPECIAL, TYPE 5**  
NOT TO SCALE



**REINFORCEMENT PLAN AT OPENING IN TOP SLAB**  
**MANHOLE SPECIAL, TYPE 5**  
NOT TO SCALE

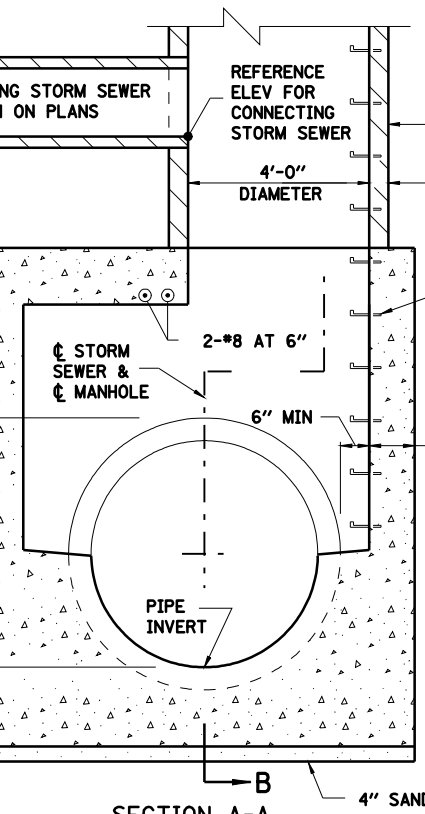
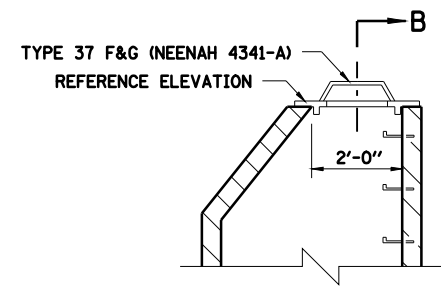


**REINFORCEMENT PLAN AT PIPE OPENING IN SIDE**  
**MANHOLE SPECIAL, TYPE 5**  
NOT TO SCALE



**REINFORCEMENT AT ALL CORNERS**  
**MANHOLE SPECIAL, TYPE 5**  
NOT TO SCALE

MANHOLE TYPE	DIAMETER
MANHOLE SPECIAL, TYPE 1	72" Ø
MANHOLE SPECIAL, TYPE 2	66" Ø
MANHOLE SPECIAL, TYPE 3	60" Ø
MANHOLE SPECIAL, TYPE 4	54" Ø



**SECTION A-A**  
**MANHOLE SPECIAL, TYPE 5**  
NOT TO SCALE

**NOTES:**

PROVIDE 1/2" KEY AT ALL CONSTRUCTION JOINTS. CONTRACTOR MAY SUBSTITUTE PRECAST FOR CAST-IN-PLACE MANHOLE. DESIGN MUST BE PREPARED BY LICENSED STRUCTURAL ENGINEER, SUBMIT SHOP PLANS IN ACCORDANCE WITH ARTICLE 504.04.

ALL WORK SHOWN WILL BE PAID FOR AS MANHOLE SPECIAL TYPE 5.

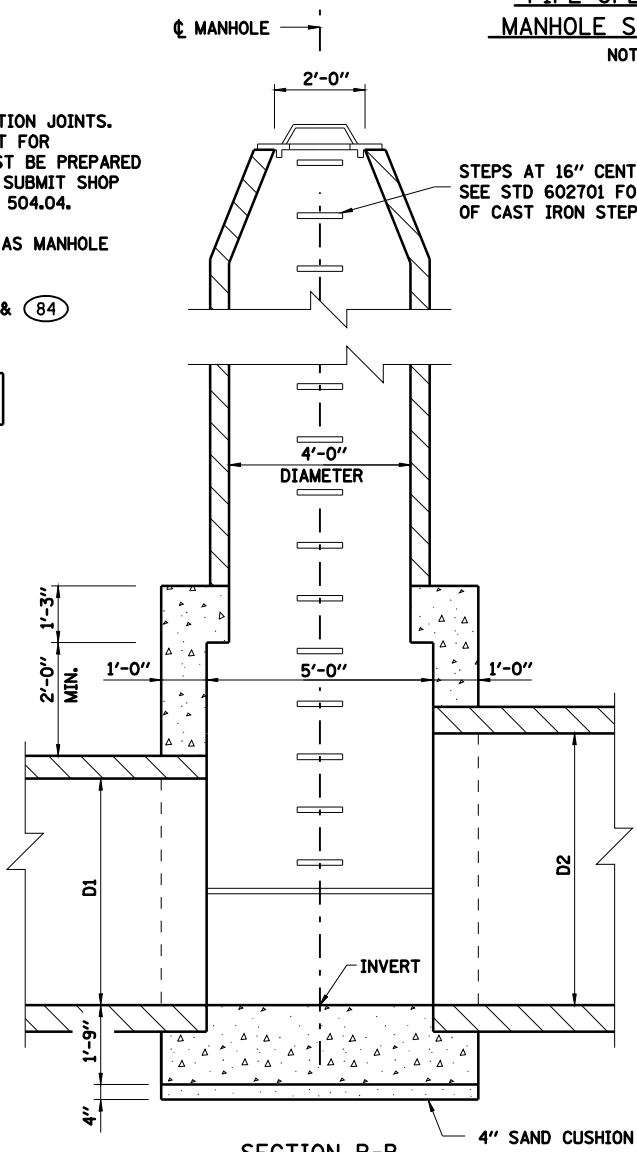
USE FLAT SLAB TOP AT (72) (78) & (84)

**REINFORCEMENT**

\*6 AT 6" EACH WAY, EACH FACE IN TOP, BOTTOM & SIDES

STEPS AT 16" CENTERS SEE STD 602701 FOR DETAILS OF CAST IRON STEPS

MANHOLE SPECIAL, TYPE 5		
LOCATION	D1	D2
844+00	54"	60"
824+00	60"	66"
807+00	66"	72"



**MANHOLE SPECIAL, TYPE 1, 2, 3, 4**  
NOT TO SCALE

**MANHOLE SPECIAL, TYPE 1, 2, 3, 4**  
**SECTION C-C**  
NOT TO SCALE

NOTE: THIS SHEET INCLUDED FOR INFORMATION ONLY. WORK ON THIS SHEET COMPLETED IN THE PRIOR GRADING & STRUCTURES CONTRACT.

REVISIONS	
NAME	DATE

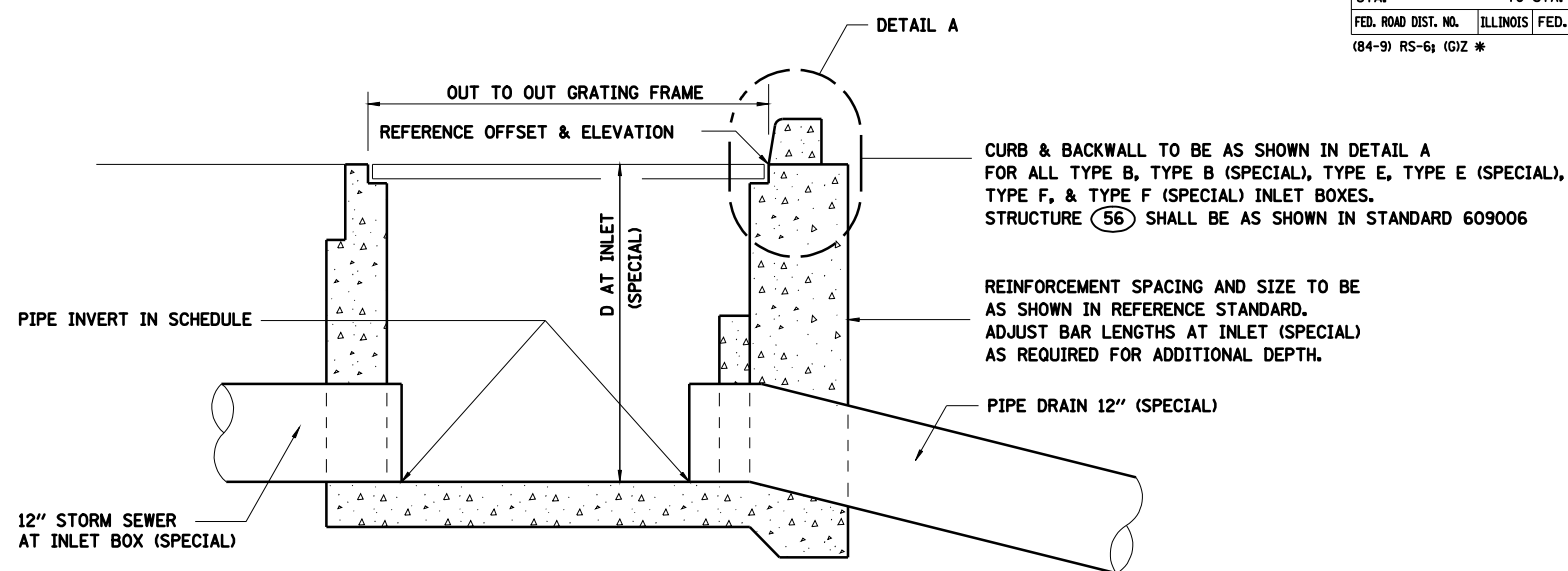
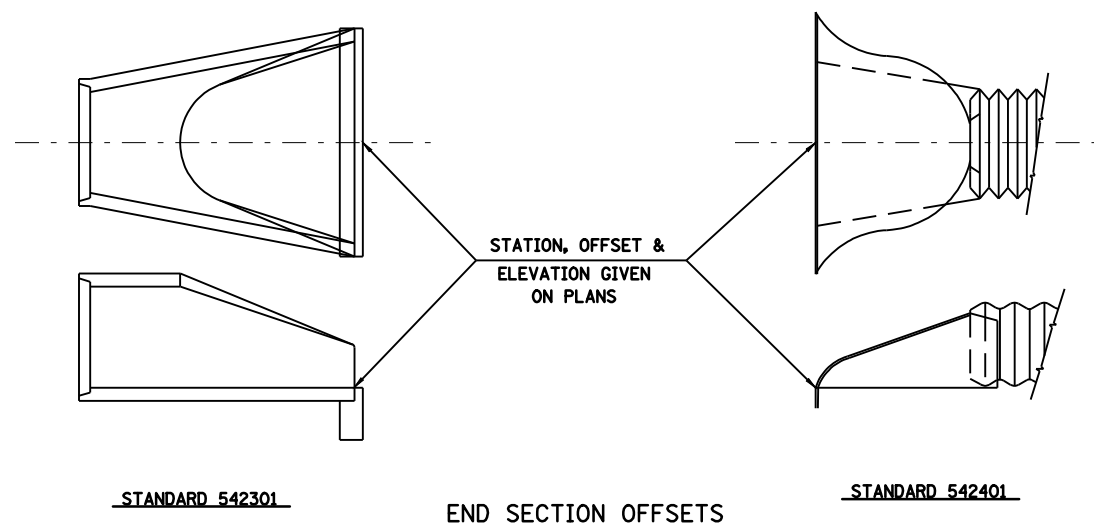
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DRAINAGE STRUCTURE DETAILS -1  
FAI-72, MACARTHUR BLVD  
SECTION  
(84-9) RS-6; (G)Z  
SANGAMON COUNTY, ILLINOIS

SCALE: VERT. DATE  
HORIZ. DATE  
Mar-19-2008 03:19:57PM

DRAWN BY CLG  
CHECKED BY JAD

LAYOUT	CLG	09/17/01
CLG	09/17/01	
DRAWN	CLG	09/17/01
REVIEWED	JMM	09/17/01

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	298
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(84-9) RS-6; (G)Z *				

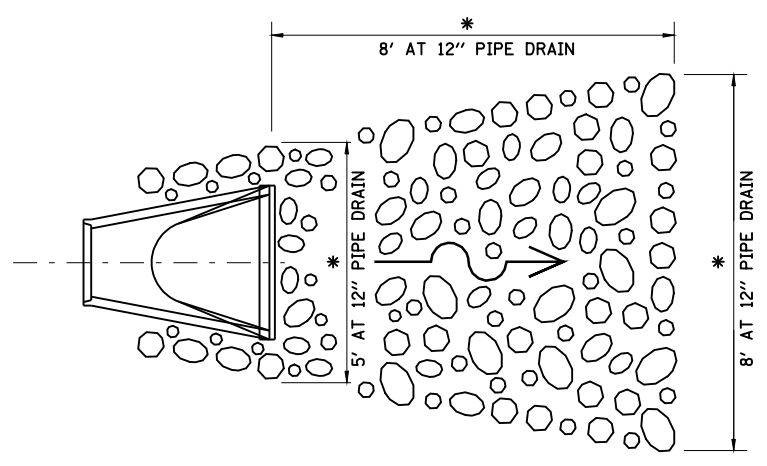


**INLET BOX SECTION**  
 FOR BRIDGE APPROACH PAVEMENT DRAINS  
 AND SHOULDER INLETS WITH CURB  
 NOT TO SCALE

INLET BOX TYPE B, TYPE B (SPECIAL) TYPE C, TYPE C (SPECIAL), TYPE D, AND TYPE D (SPECIAL) TO BE IN ACCORDANCE WITH STD 609006 EXCEPT AS SHOWN. INLET BOX TYPE E, TYPE E (SPECIAL), TYPE F, AND TYPE F (SPECIAL) TO BE IN ACCORDANCE WITH STD 610001 EXCEPT AS SHOWN.

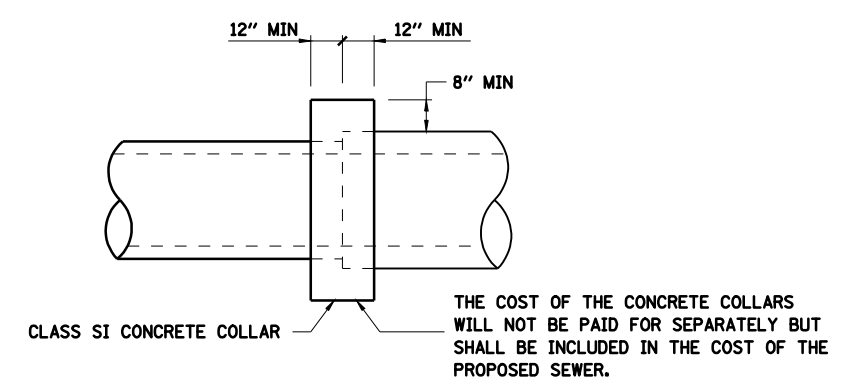
INLET BOX DEPTH TO BE AS SHOWN IN STANDARD EXCEPT AS NOTED BELOW

INLET TYPE B (SPECIAL)	3.50'
INLET TYPE C (SPECIAL)	4.17'
INLET TYPE D (SPECIAL)	3.50'
INLET TYPE E (SPECIAL)	3.50'
INLET TYPE F (SPECIAL)	3.50'
STRUCTURE (85) D=	2.00'
STRUCTURE (23) D=	2.67'
STRUCTURE (46) D=	2.67'

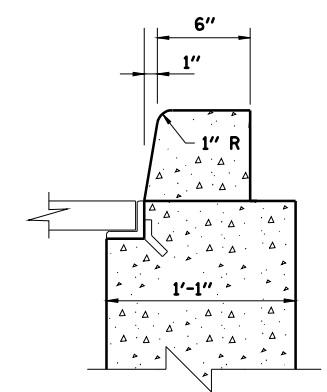


\* = DIMENSIONS SHOWN AT LOCATIONS ON PLAN & PROFILE SHEETS

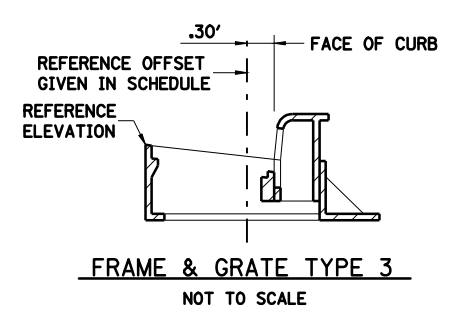
**TYPICAL RIPRAP LAYOUT AT PIPE OUTLETS**  
 NOT TO SCALE



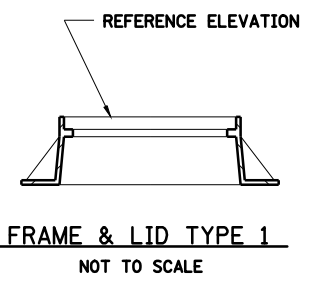
**TYPICAL CONCRETE COLLAR DETAIL**  
 NOT TO SCALE



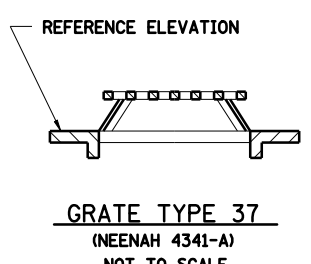
**DETAIL A**  
 NOT TO SCALE



**FRAME & GRATE TYPE 3**  
 NOT TO SCALE



**FRAME & LID TYPE 1**  
 NOT TO SCALE



**GRATE TYPE 37**  
 (NEENAH 4341-A)  
 NOT TO SCALE

STATION & OFFSET TO INLETS TYPE A & B & MANHOLE TYPE A ARE TO THE  $\phi$  OF THE OPENING

STATION & OFFSET TO INLETS TYPE A & B & MANHOLE TYPE A ARE TO THE  $\phi$  OF THE STRUCTURE.

REVISIONS	
NAME	DATE

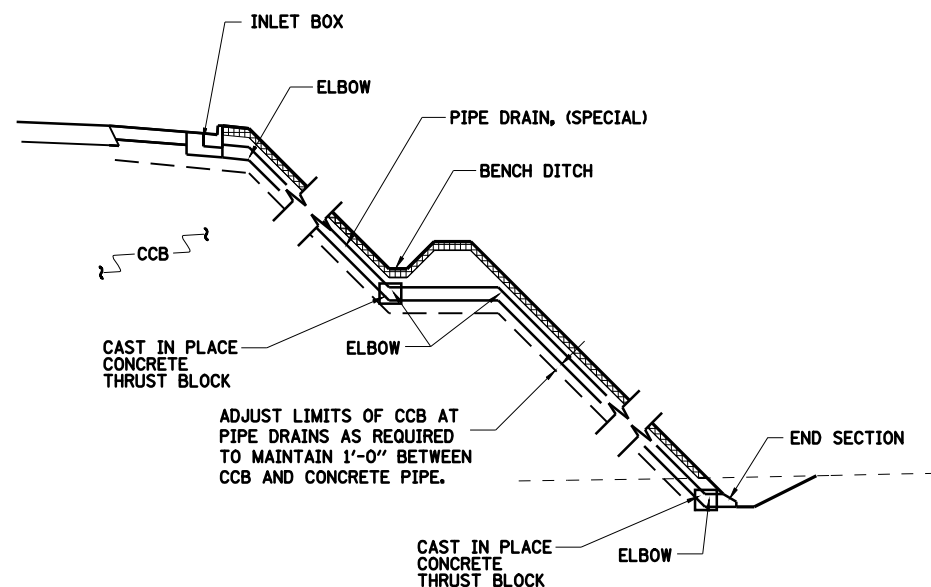
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DRAINAGE STRUCTURE DETAILS -2  
 FAI-72, MACARTHUR BLVD  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-19-2008 03:19:59PM

DRAWN BY: CLG  
 CHECKED BY: JAD

Mar-19-2008 03:19:59PM  
 \*FILE\*  
 LAYOUT CLG 09/17/07  
 DRAWN CLG 09/17/07  
 REVIEWED JMM 09/17/07

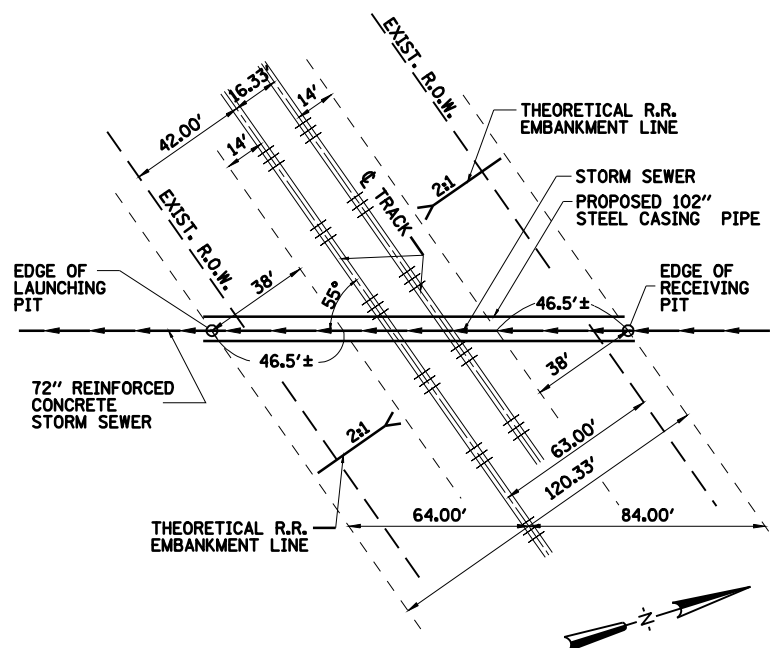
FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	299
STA. 8071		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(84-9) RS-6; (G)Z *				



NOTE:  
ALL ELBOWS AND THRUST BLOCKS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PIPE DRAIN, (SPECIAL) OF THE TYPE AND SIZE SPECIFIED

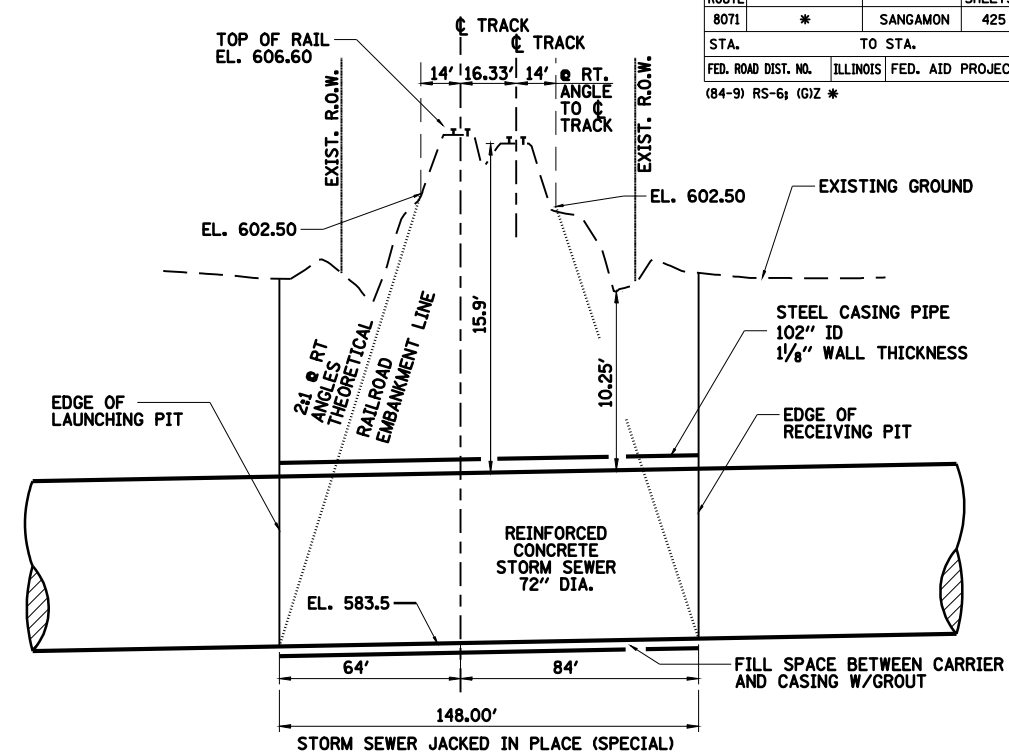
**PIPE DRAINS @ BENCH**  
NOT TO SCALE

NOTE: THIS DETAIL INCLUDED FOR INFORMATION ONLY.



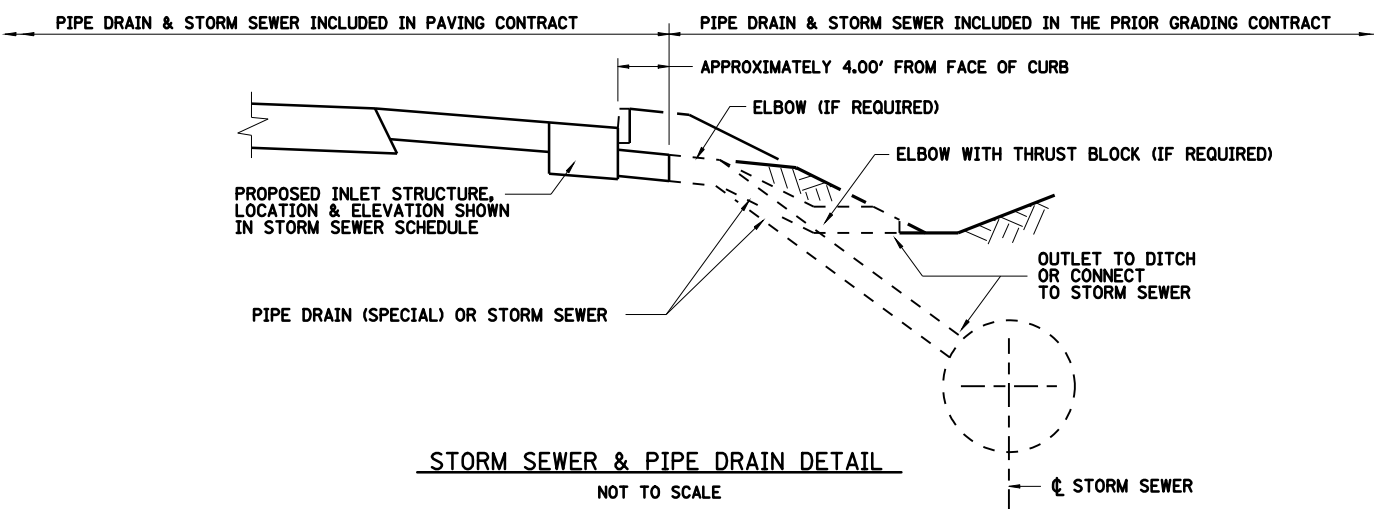
**PLAN**  
**MACARTHUR BOULEVARD STORM SEWER BENEATH**  
**NORFOLK SOUTHERN RAILWAY**  
NOT TO SCALE

NOTE: THIS DETAIL INCLUDED FOR INFORMATION ONLY.



**ELEVATION**  
**MACARTHUR BOULEVARD STORM SEWER BENEATH**  
**NORFOLK SOUTHERN RAILWAY**  
NOT TO SCALE

NOTE: THIS DETAIL INCLUDED FOR INFORMATION ONLY.



**STORM SEWER & PIPE DRAIN DETAIL**  
NOT TO SCALE

NOTE:  
ALL ELBOWS & THRUST BLOCKS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STORM SEWER OR PIPE DRAIN (SPECIAL) OF THE TYPE & DIAMETER SPECIFIED.

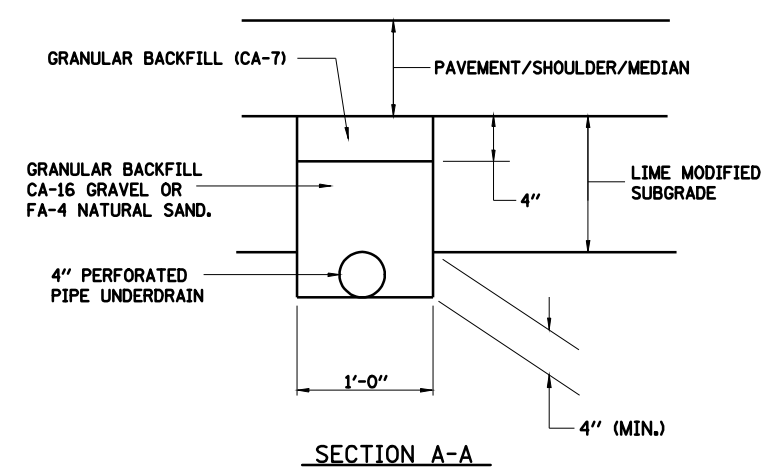
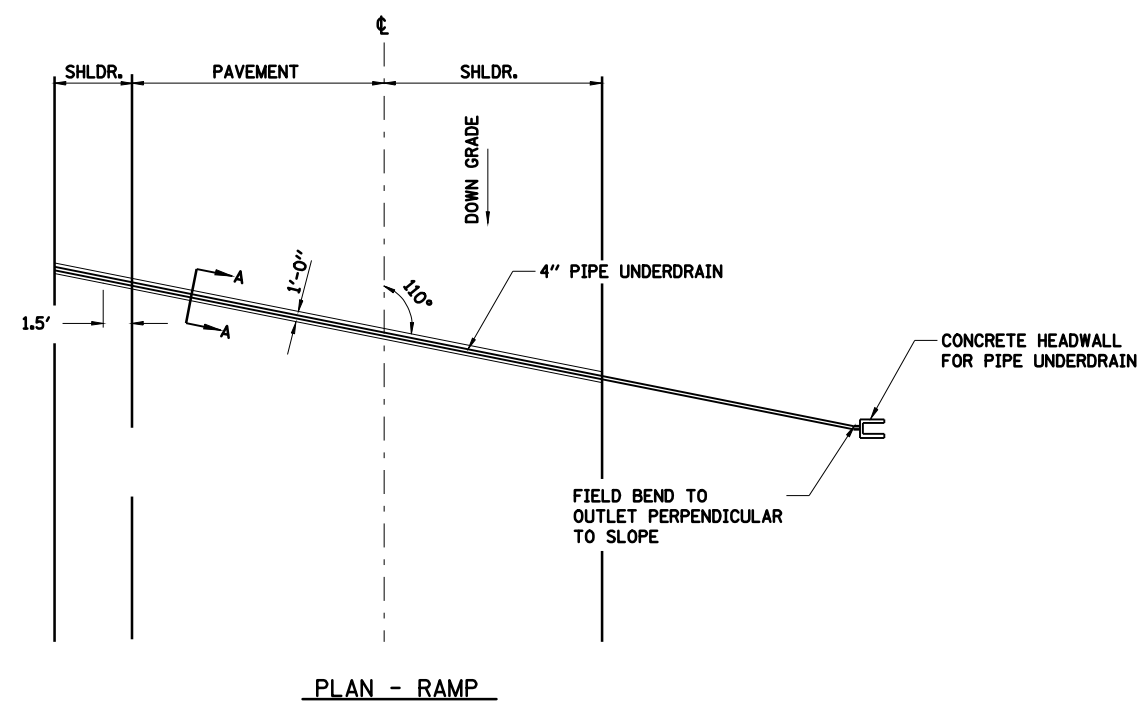
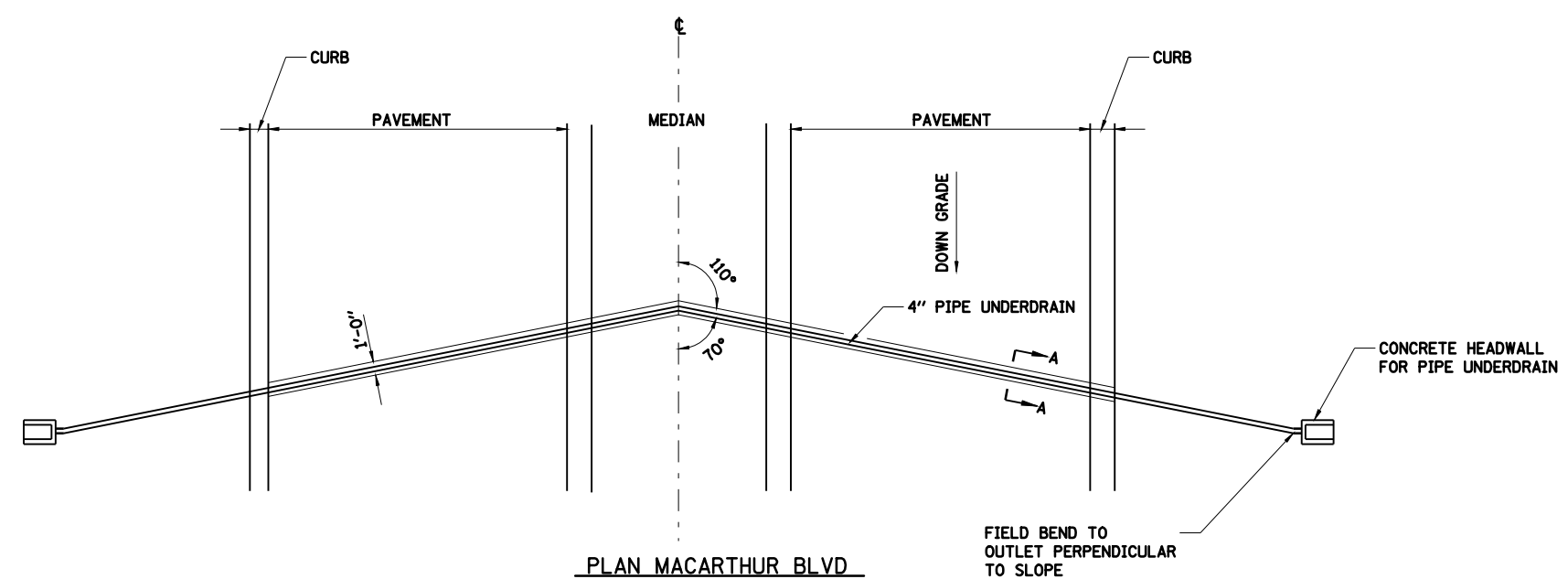
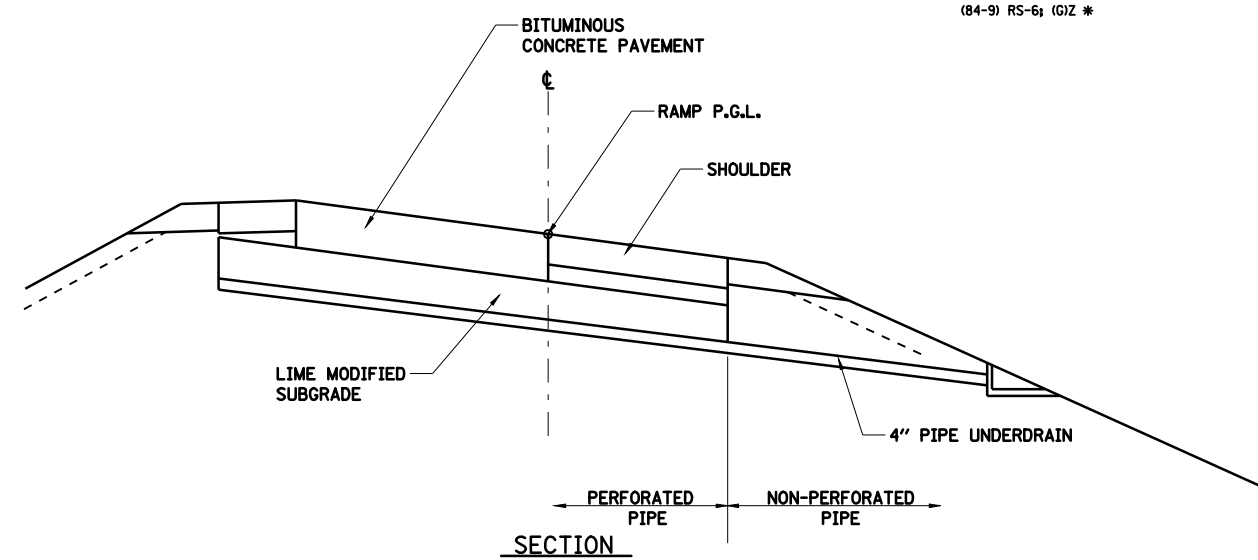
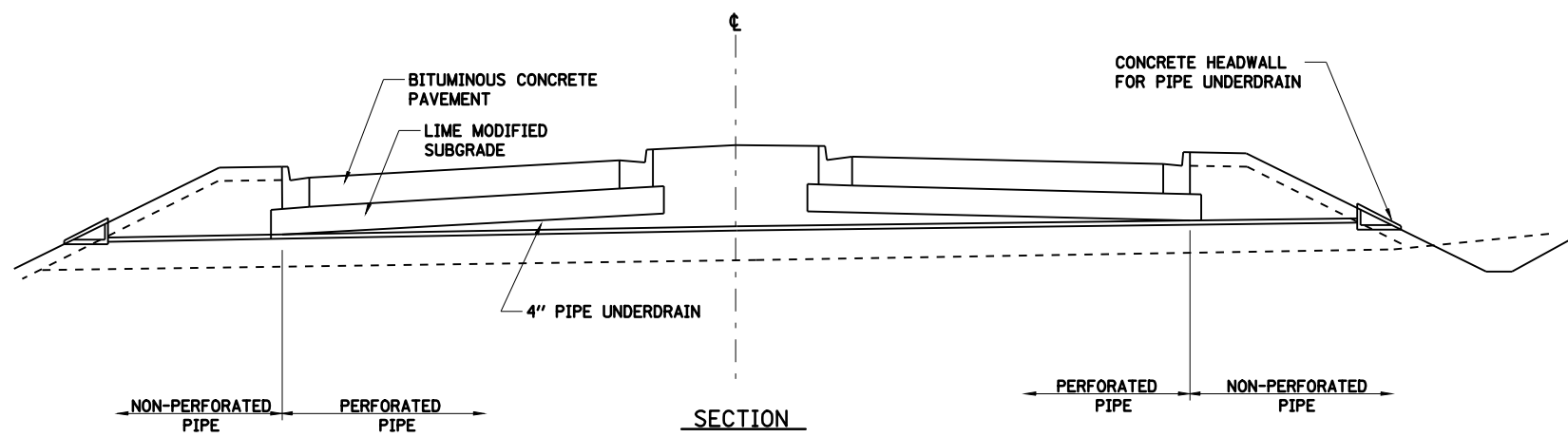
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PIPE DRAIN & STORM SEWER DETAILS**  
**FAI-72, MACARTHUR BLVD**  
**SECTION**  
**(84-9) RS-6; (G)Z**  
**SANGAMON COUNTY, ILLINOIS**  
SCALE: VERT. \_\_\_\_\_  
          HORIZ. \_\_\_\_\_  
DATE: Mar-19-2008 03:20:01PM  
DRAWN BY: CLG  
CHECKED BY: JWM



LAYOUT	CLG	03/17/07
DRAWN	CLG	03/17/07
REVIEWED	JWM	03/17/07

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8071	*	SANGAMON	425	300
STA. TO STA.		ILLINOIS FED. AID PROJECT		
(84-9) RS-6; (G)Z *				



**GENERAL NOTES**

TRANSVERSE DRAIN MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 601 OF THE STANDARD SPECIFICATIONS EXCEPT THAT NO FABRIC ENVELOPE IS REQUIRED ON PERFORATED PIPE AND THE GRANULAR BACKFILL GRADATION SHALL BE CA-16 GRAVEL OR FA-4 NATURAL SAND.

ALL MATERIALS WILL NOT BE MEASURED SEPARATELY, BUT WILL BE INCLUDED IN THE COST PER UNIT TRANSVERSE DRAINS.

PERFORATED PIPE SHALL BE CORRUGATED PE WITH A SMOOTH INTERIOR MEETING ARTICLE 1040.19.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRANSVERSE DRAIN DETAILS  
 FAI-72, MACARTHUR BLVD  
 SECTION  
 (84-9) RS-6; (G)Z  
 SANGAMON COUNTY, ILLINOIS

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE: Mar-19-2008 03:24:19PM  
 DRAWN BY: HEI  
 CHECKED BY: JWM



03:24:19PM  
 Mar-19-2008  
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