MATCH LINE STA. 254+00
SEE SHEET 203

℄ PR. RAMP D

NOTES:

1. THIS SHEET IS FOR INFORMATION ONLY, NO SIGNS ARE REQUIRED ON THIS SHEET IN THIS CONTRACT.

CONTRACT 76E06
LIMITS STA. 258+00

CONTRACT 76E06

CONTRACT 76C43

℄ PR. RAMP C

℄ PROPOSED I-70

260+00

155+00

160+00

110+00

105+00

10+00

15+00

800+00

℄ PR. RAMP A

℄ CAHOKIA CANAL CULVERT

00+50

MATCH LINE STA. 165+00
SEE SHEET 202

MATCH LINE "B"
SEE SHEET 205

SIGNING LEGEND

- EXISTING GROUND SIGN
- PROPOSED GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD 2009 STANDARDS. (6' MIN. FROM EDGE OF SHOULDER)
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. SEE SIGNING DETAIL SHEETS FOR SIGN INFORMATION.

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

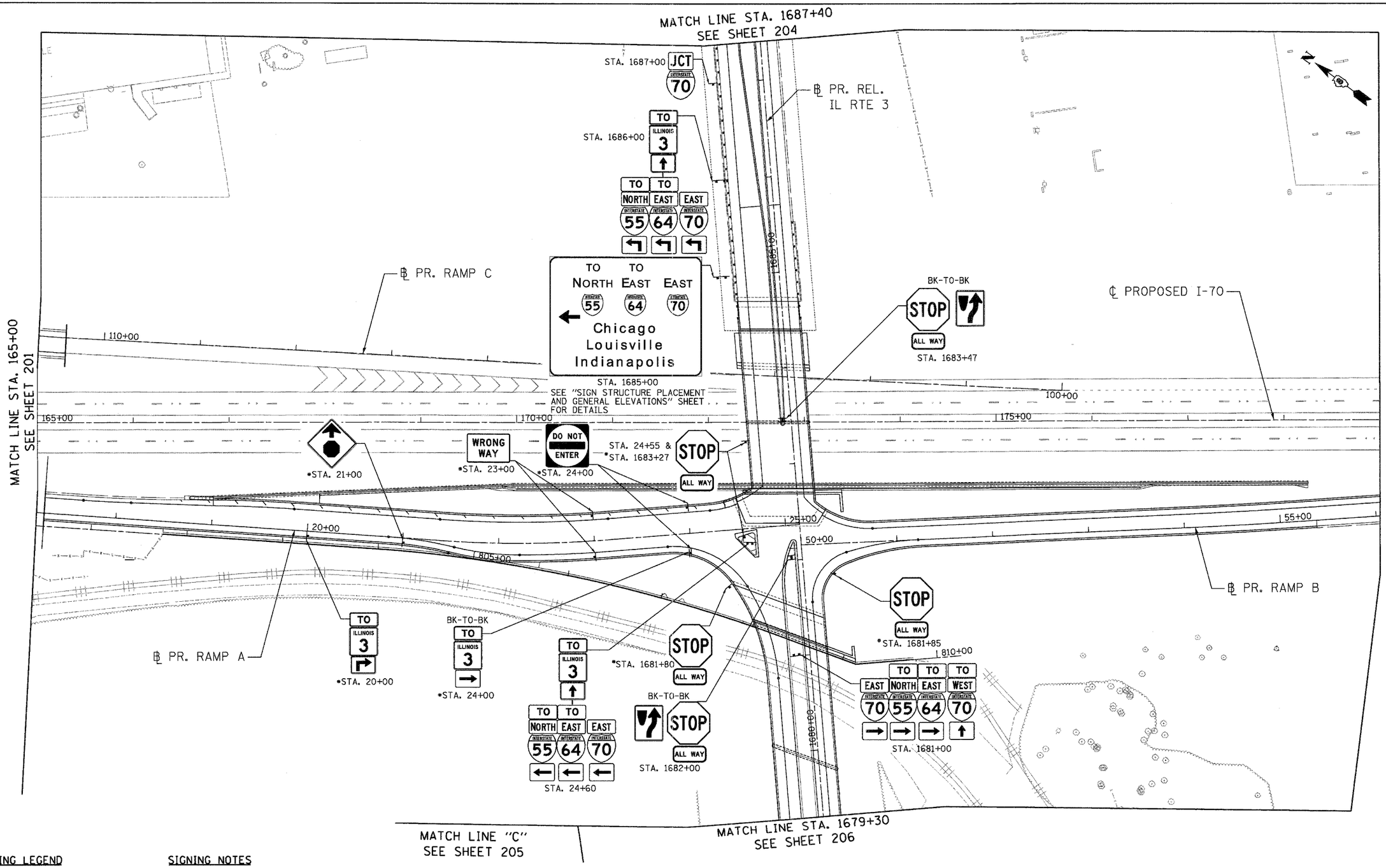
USER NAME = Plotted by Scott Wilkinson	DESIGNED - AS	REVISED -
	DRAWN - AS	REVISED -
PLOT SCALE = 50.2000 ' / IN.	CHECKED - ST	REVISED -
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

RAMPS C AND D
SIGNING PLANS
STA. 254+00 TO STA. 258+00, STA. 110+69 TO STA. 116+40
SCALE: 1" = 50' | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	201
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$$$$dgn_name$$$$ $$$$user_nm$$$$
$$$$date_time$$$$ $$$$xf_list_name$$$$



SIGNING LEGEND

- EXISTING GROUND SIGN
- PROPOSED GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD 2009 STANDARDS. (6' MIN. FROM EDGE OF SHOULDER)
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. SEE SIGNING DETAIL SHEETS FOR SIGN INFORMATION.
4. ZZ SHEETING SHALL BE USED FOR ALL GREEN BOARD DETAILS.

* INDICATES SIGN TO BE MOUNTED ON PARAPET WALL. (SEE DETAIL IN SIGNING PLANS)

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

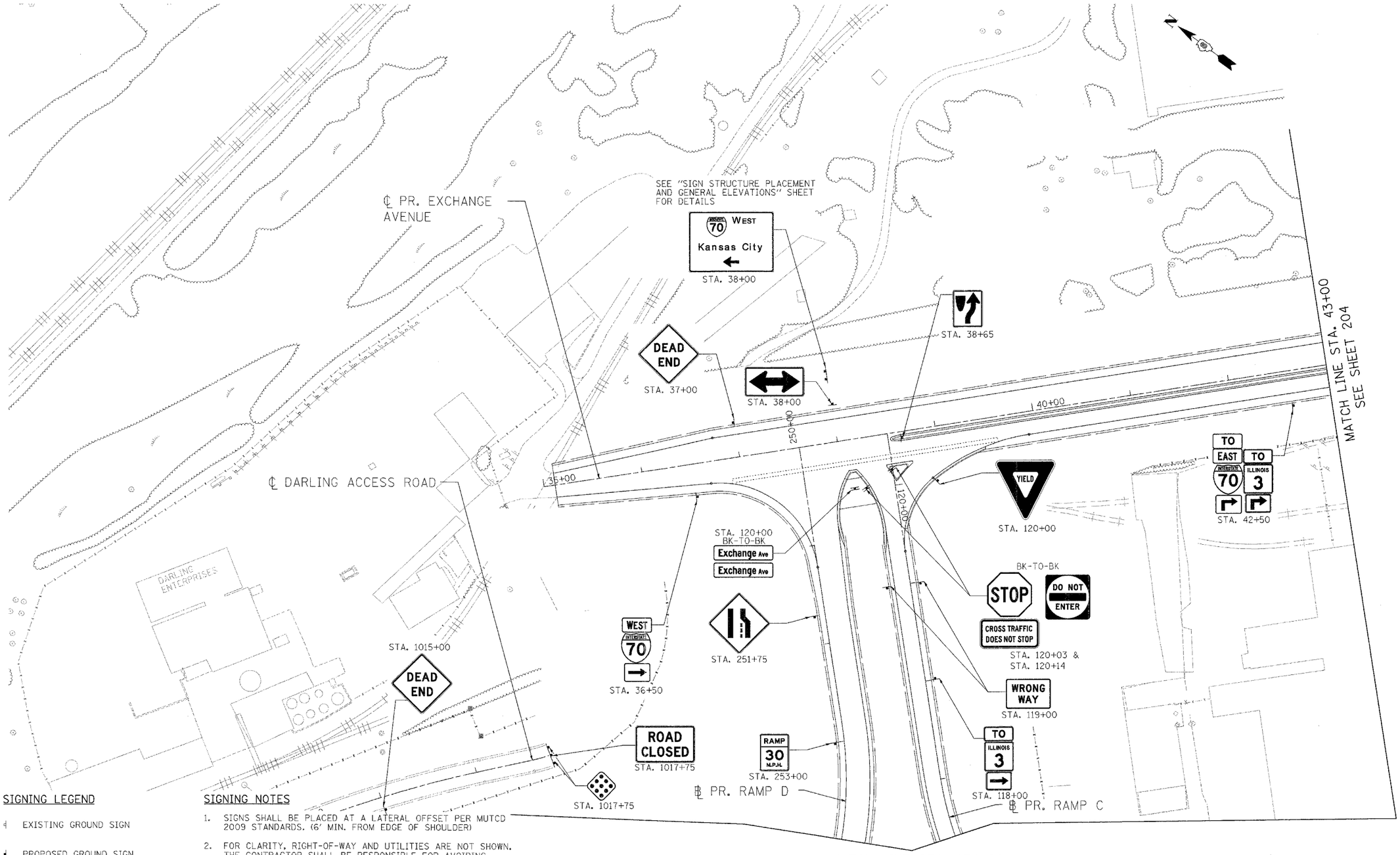
USER NAME = $USER$	DESIGNED - AS	REVISED -	
	DRAWN - AS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - ST	REVISED -	
PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PR. REL. IL RTE. 3, RAMPS A AND B
SIGNING PLANS
STA. 1679+30 TO STA. 1687+40

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	202
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SIGNING LEGEND

- EXISTING GROUND SIGN
- PROPOSED GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD 2009 STANDARDS. (6' MIN. FROM EDGE OF SHOULDER)
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. SEE SIGNING DETAIL SHEETS FOR SIGN INFORMATION.
4. ZZ SHEETING SHALL BE USED FOR ALL GREEN BOARD DETAILS.

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = $USER$	DESIGNED - AS	REVISED -
	DRAWN - AS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - ST	REVISED -
PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

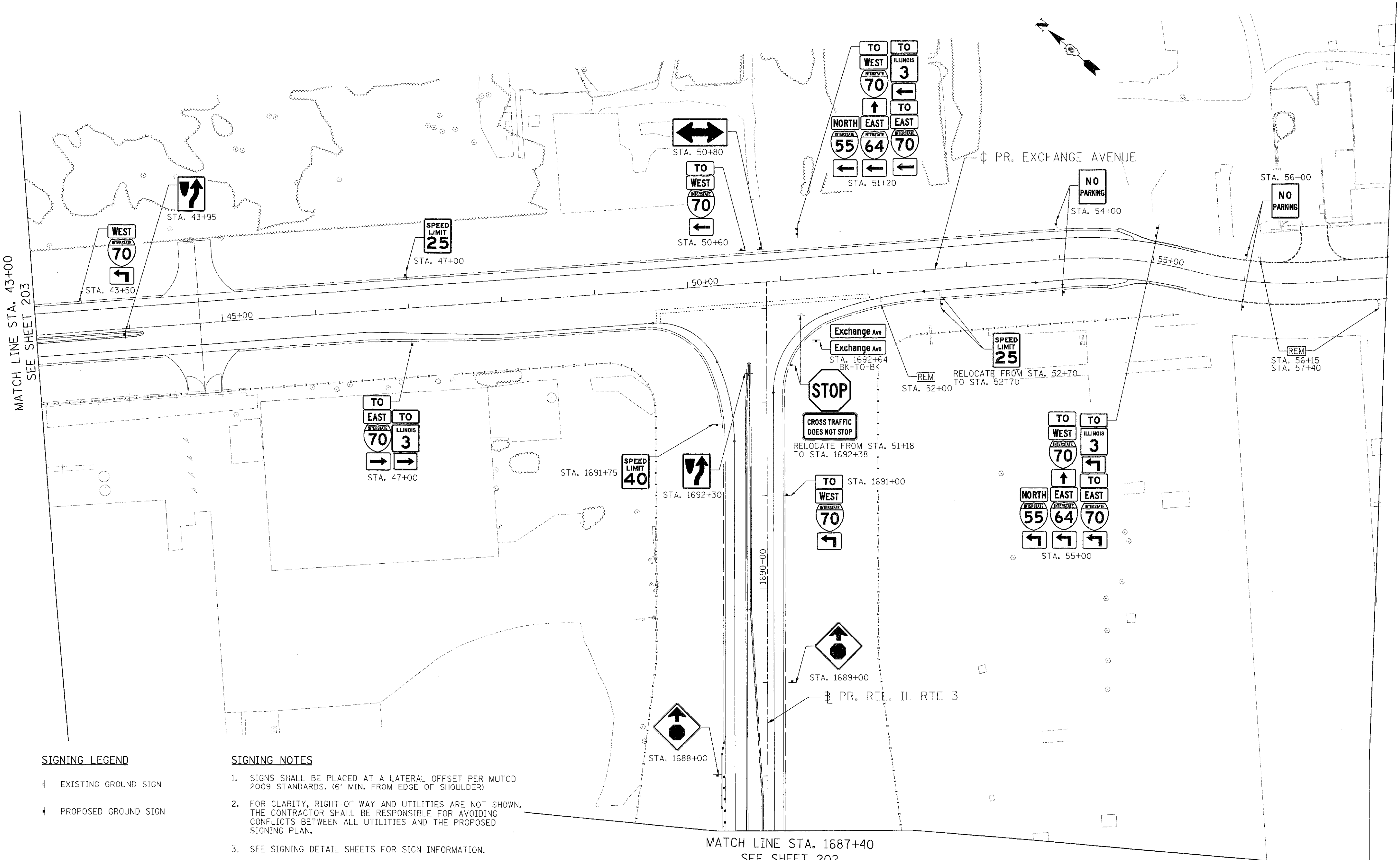
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

PR. EXCHANGE AVE., RAMPS C AND D
SIGNING PLANS
STA. 35+00 TO STA. 43+00

SCALE: 1"=50' | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	203
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$$$$dgn_name$$$$ $$$$user$$$$ $$$$date_time$$$$



SIGNING LEGEND

EXISTING GROUND SIGN

PROPOSED GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD 2009 STANDARDS. (6' MIN. FROM EDGE OF SHOULDER)
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. SEE SIGNING DETAIL SHEETS FOR SIGN INFORMATION.
4. ZZ SHEETING SHALL BE USED FOR ALL GREEN BOARD DETAILS.

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = $USER$	DESIGNED - AS	REVISED -	
	DRAWN - AS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - ST	REVISED -	
PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

PR. EXCHANGE AVE., AND PR. REL. IL RTE. 3
SIGNING PLANS
STA. 43+00 TO STA. 57+00

SCALE: 1"=50' | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	204
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

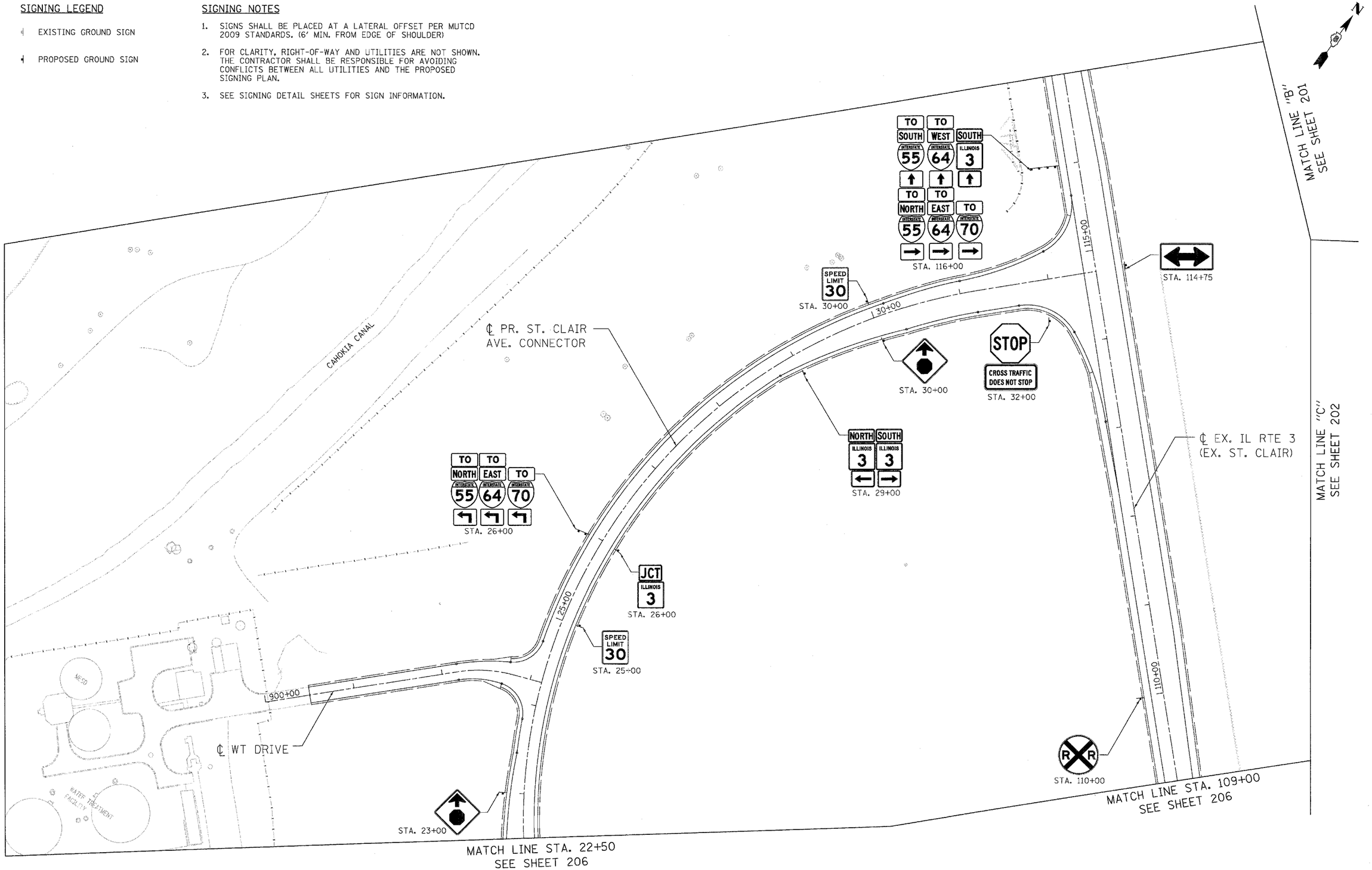
$$$ref_list_name$$$ $$$date_time$$$ $$usr$$ $$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$

SIGNING LEGEND

- EXISTING GROUND SIGN
- PROPOSED GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD 2009 STANDARDS. (6' MIN. FROM EDGE OF SHOULDER)
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. SEE SIGNING DETAIL SHEETS FOR SIGN INFORMATION.



LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Wasmont, Illinois

USER NAME = Plotted by Scott Wilkinson	DESIGNED - AS	REVISED -	
	DRAWN - AS	REVISED -	
PLOT SCALE = 50.2000 ' / IN.	CHECKED - ST	REVISED -	
PLOT DATE = 12/17/2011	DATE - 10/21/11	REVISED -	

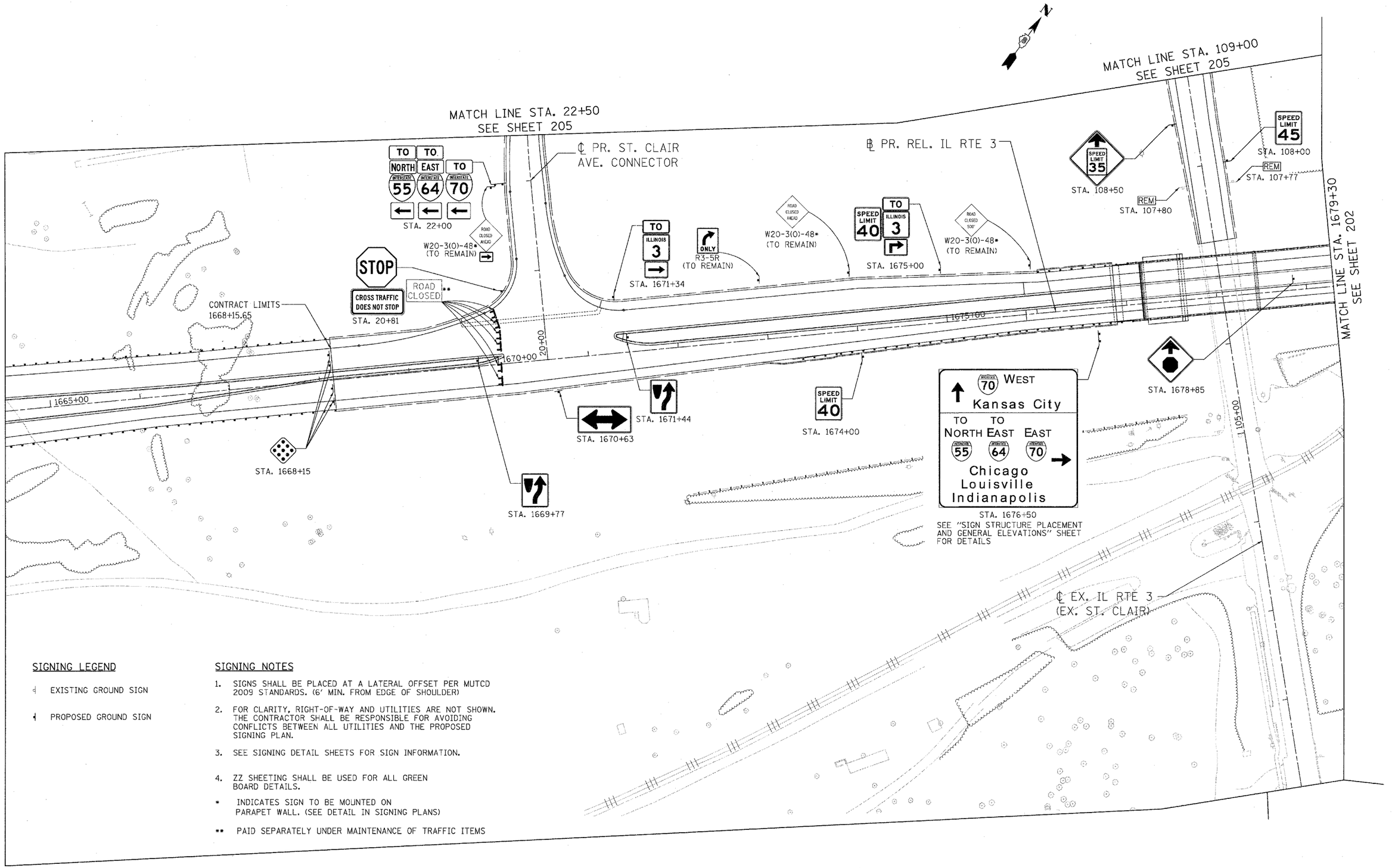
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

PR. ST. CLAIR AVE. CONNECTOR AND EX. IL RTE. 3 (ST. CLAIR AVE.)
SIGNING PLANS
STA. 109+00 TO STA. 117+00

SCALE: 1"=50' | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	205
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$$$$ref_list_name$$$$ $$user$$ $$$$$$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$$$ $$$$date_time$$$$



SIGNING LEGEND

- EXISTING GROUND SIGN
- PROPOSED GROUND SIGN

SIGNING NOTES

1. SIGNS SHALL BE PLACED AT A LATERAL OFFSET PER MUTCD 2009 STANDARDS. (6' MIN. FROM EDGE OF SHOULDER)
2. FOR CLARITY, RIGHT-OF-WAY AND UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN ALL UTILITIES AND THE PROPOSED SIGNING PLAN.
3. SEE SIGNING DETAIL SHEETS FOR SIGN INFORMATION.
4. ZZ SHEETING SHALL BE USED FOR ALL GREEN BOARD DETAILS.

* INDICATES SIGN TO BE MOUNTED ON PARAPET WALL. (SEE DETAIL IN SIGNING PLANS)

** PAID SEPARATELY UNDER MAINTENANCE OF TRAFFIC ITEMS

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = $USER$	DESIGNED - AS	REVISED -	
	DRAWN - AS	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - ST	REVISED -	
PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

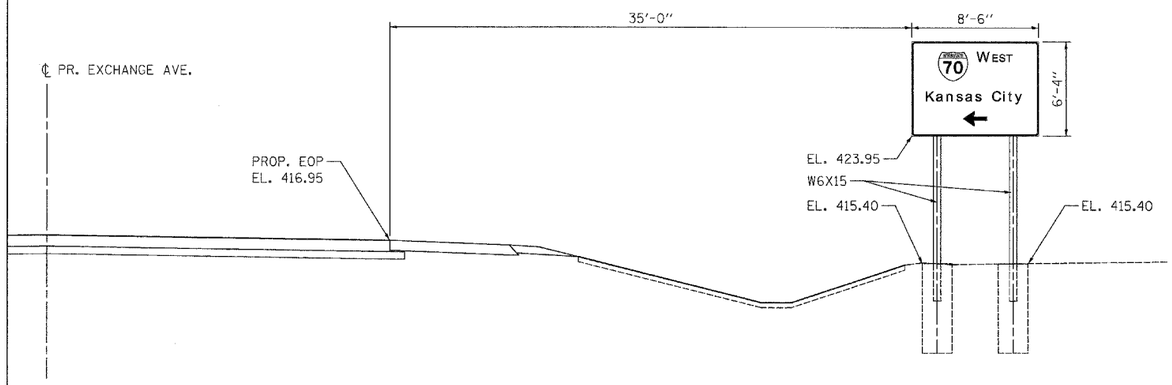
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

PR. REL. IL RTE. 3, PR. ST. CLAIR AVE. CONNECTOR AND EX. IL RTE. 3
SIGNING PLANS
STA. 1665+00 TO STA. 1679+30

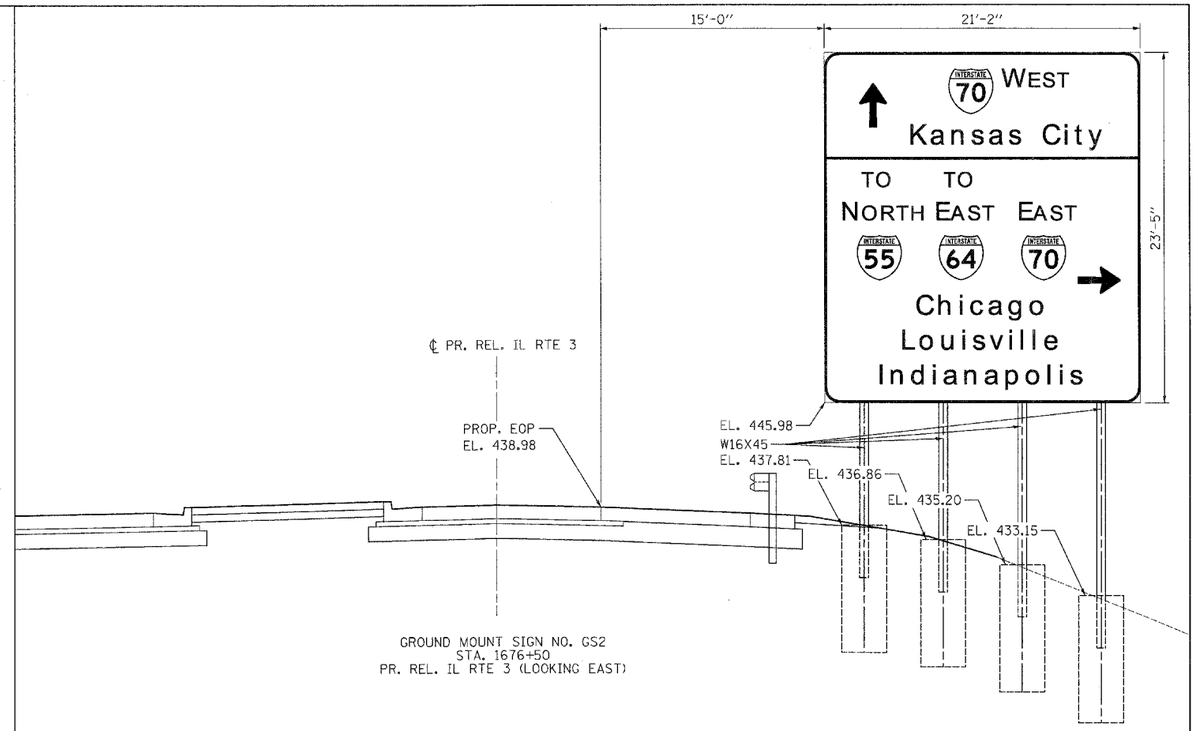
SCALE: 1"=50' | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	206
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

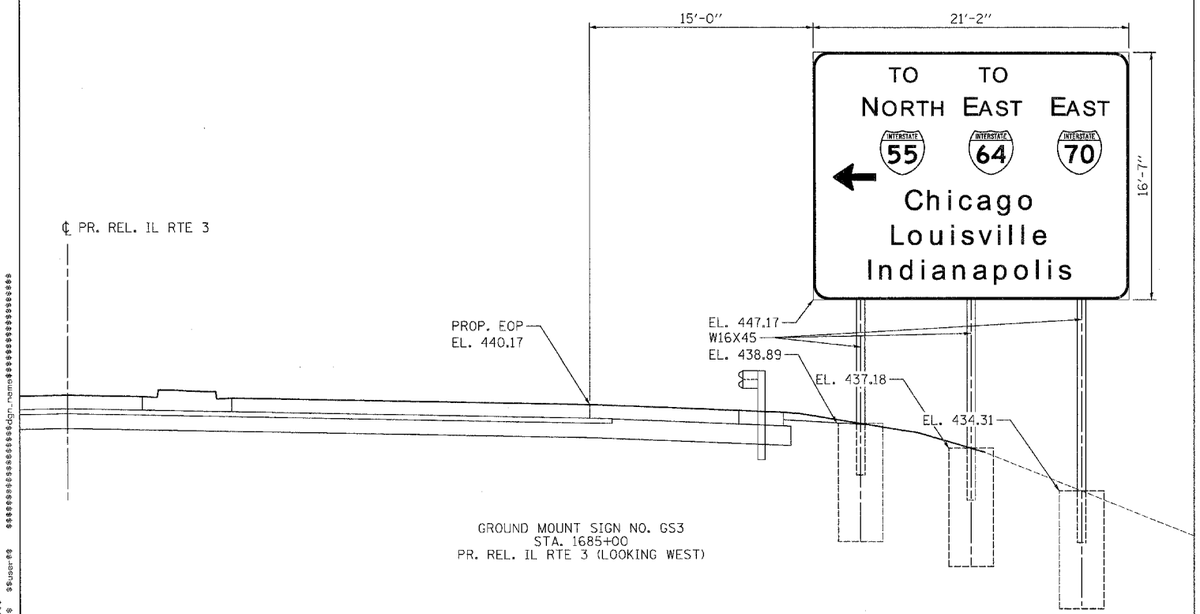
$$$$dgn_name$$$$ $$user$$ $$scale$$ $$date_time$$$$ $$ref_list_name$$$$



GROUND MOUNT SIGN NO. GS1
STA. 38+00
PR. EXCHANGE AVE. (LOOKING WEST)



GROUND MOUNT SIGN NO. GS2
STA. 1676+50
PR. REL. IL RTE 3 (LOOKING EAST)



GROUND MOUNT SIGN NO. GS3
STA. 1685+00
PR. REL. IL RTE 3 (LOOKING WEST)

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = Plotted by Scott Wilkinson	DESIGNED - SEW	REVISED -
	DRAWN - SEW	REVISED -
PLOT SCALE = 50.0000 ' / IN.	CHECKED - ST	REVISED -
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

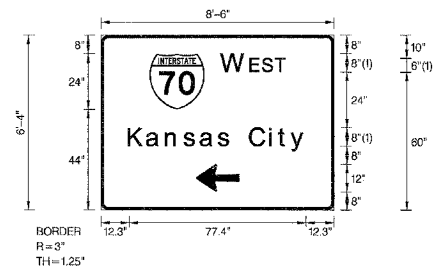
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGN STRUCTURE PLACEMENT AND GENERAL ELEVATIONS

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	207
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:75



BORDER
R=3"
TH=1.25"

FONT:
(1) ClearviewHwy-5-W

Panel Style: guide_con_destination.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	GS1
WIDTH x HGHT.	8'-6" x 6'-4"
BORDER WIDTH	1.25"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	21.2	44	24	24
ARMED	180	41.6	8	12	18.9

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

ZZ Sheeting shall be used for all green board details
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

											LENGTH	SERIES/SIZE
W	E	S	T									ClearviewHwy-5-W
52.9	65.4	70.8	76.5								28	8,6
K	a	n	s	a	s		C	i	t	y		ClearviewHwy-5-W
12.3	20.3	28.7	36.7	43.8	51.7	56.8	65.5	74.2	78.1	83.5	77.4	8/6.5

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by Scott Wilkinson	DESIGNED - ST	REVISED -
		DRAWN - AS	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - ST	REVISED -
	PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGNING DETAILS

SCALE: N/A | SHEET NO. 1 OF 7 SHEETS | STA. TO STA.

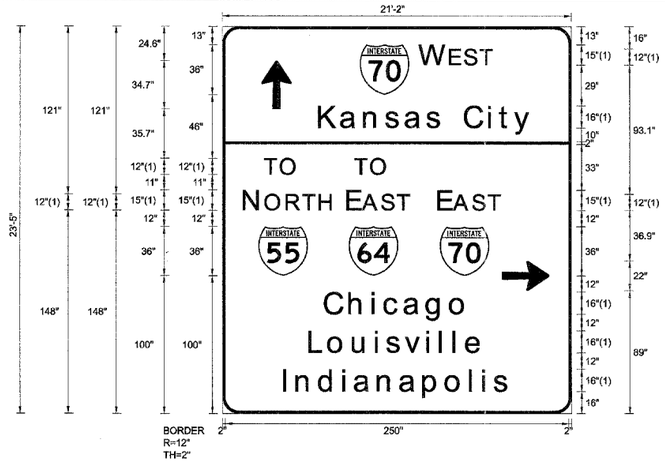
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	208
		CONTRACT NO. 76E06		

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

$$$ref_list_name$$$ $$$date_time$$$ $$user$$ $$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$

SIGN DETAIL

1:100



FONT:
(1) ClearviewHwy-5-W

Panel Style: guide_fwy_overhead.ssi
M.U.T.C.D.: 2009 Edition

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

ZZ Sheeting shall be used for all green board details
Letter locations are panel edge to lower left corner

SIGN NUMBER	GS2
WIDTH x HGHT.	21'-2" x 23'-5"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	100	232	36	36
ARMED	90	28.3	221.7	22	34.7
M1_1	0	26.1	100	36	36
M1_1	0	91.9	100	36	36
M1_1	0	158.2	99.9	36	36
ARMED	0	203.4	89	22	34.7

LETTER POSITIONS (X)

																															LENGTH	SERIES/SIZE
W	E	S	T																													ClearviewHwy-5-W
144	165.9	176.7	188.1																												52.7	15,12
K	a	n	s	a	s		C	i	t	y																						ClearviewHwy-5-W
71	86.9	103.8	119.7	134	149.7	159.9	177.2	194.7	202.5	213.2																					154.7	1613
T	O																															ClearviewHwy-5-W
31	42.7																														22.9	12
T	O																															ClearviewHwy-5-W
96.7	108.5																														22.9	12
N	O	R	T	H																												ClearviewHwy-5-W
16	31.5	46.9	58.9	71.1																											64.2	15,12
E	A	S	T																													ClearviewHwy-5-W
91.4	102.6	116.3	127.7																												44.9	15,12
E	A	S	T																													ClearviewHwy-5-W
157.8	168.9	182.6	194																												44.8	15,12
C	h	i	c	a	g	o																										ClearviewHwy-5-W
75.3	93.1	109.8	118.6	133.1	149.4	166.5																									103.5	1613
L	o	u	i	s	v	i	l	l	e																							ClearviewHwy-5-W
64.1	77.8	95.5	112.1	120.3	133.7	149.7	159.1	168.9	178.1																						125.7	1613
I	n	d	i	a	n	a	p	o	l	i	s																					ClearviewHwy-5-W
45.2	54.6	71.1	88.4	96.8	113.8	129.9	146.9	163.2	180.9	190.4	198.6																				163.6	1613

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = Plotted by Scott Wilkinson	DESIGNED - ST	REVISED -
	DRAWN - AS	REVISED -
PLOT SCALE = 65.5966 ' / IN.	CHECKED - ST	REVISED -
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

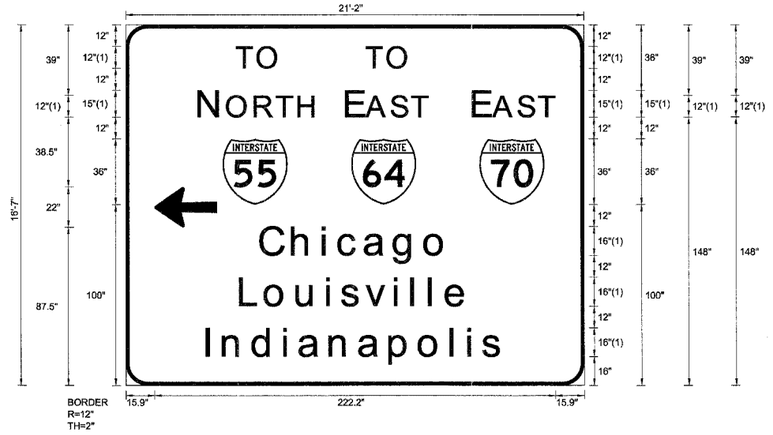
SIGNING DETAILS

SCALE: N/A | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	209
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



FONT:
(1) ClearviewHwy-5-W

Panel Style: guide_fwy_overhead.ssi
M.U.T.C.D.: 2009 Edition

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

ZZ Sheeting shall be used for all green board details
Letter locations are panel edge to lower left corner

SIGN NUMBER	GS3
WIDTH x HGHT.	21'-2" x 16'-7"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	53.7	100	36	36
M1_1	0	125	100	36	36
M1_1	0	196.1	100	36	36
ARMED	180	15.9	87.5	22	34.7

LETTER POSITIONS (X)												LENGTH	SERIES-SIZE
T	O												ClearviewHwy-5-W
61.8	73.6											22.9	12
T	O												ClearviewHwy-5-W
133.9	145.6											22.9	12
N	O	R	T	H									ClearviewHwy-5-W
41.2	56.6	72.1	84	96.2								64.2	15,12
E	A	S	T										ClearviewHwy-5-W
122.9	134	147.7	159.1									44.9	15,12
E	A	S	T										ClearviewHwy-5-W
193.2	204.3	218.1	229.5									44.9	15,12
C	h	i	c	a	g	o							ClearviewHwy-5-W
75.4	93.1	109.9	118.7	133.2	149.5	166.6						103.5	16\13
L	o	u	i	s	v	i	l	l	e				ClearviewHwy-5-W
64.2	77.9	95.6	112.2	120.4	133.8	149.8	159.2	169	178.2			125.7	16\13
I	n	d	i	a	n	a	p	o	l	i	s		ClearviewHwy-5-W
45.3	54.7	71.2	88.5	96.9	113.9	130	146.9	163.3	181	190.5	198.7	163.6	16\13

$$$$ref_list_name$$$$
$$$$data_type$$$$ $$User$$ $$$$sign_name$$$$

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = Plotted by Scott Wilkinson	DESIGNED - ST	REVISED -	
	DRAWN - AS	REVISED -	
PLOT SCALE = 50.0000 ' / IN.	CHECKED - ST	REVISED -	
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGNING DETAILS

SCALE: N/A | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	210
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Exchange Ave D3-1 48"X12"	STOP R1-1 36"X36" OR 30"X30"	YIELD R1-2 36"X36"X36"	ALL WAY R1-3P 18"X6"	SPEED LIMIT 25 R2-1 24"X30"	SPEED LIMIT 30 R2-1 24"X30"	SPEED LIMIT 40 R2-1 24"X30"	SPEED LIMIT 45 R2-1 24"X30"	ONLY R3-5R 30"X36"	R4-7 24"X30"
DO NOT ENTER R5-1 30"X30"	WRONG WAY R5-1a 36"X24"	NO PARKING R8-3a 24"X30"	ROAD CLOSED R11-2 48"X30"	W1-7 48"X24"	W2-2L 30"X30"	W3-1 30"X30"	SPEED LIMIT 35 W3-5 36"X36"	W4-2R 36"X36"	CROSS TRAFFIC DOES NOT STOP W4-4p 24"X12"
R R W10-1 36" DIA.	RAMP 30 M.P.H. W13-3 36"X48"	DEAD END W14-1 30"X30"	INTERSTATE 64 M1-1 24"X24"	INTERSTATE 55 M1-1 24"X24"	INTERSTATE 70 M1-1 24"X24"	ILLINOIS 3 M1-5 24"x24"	JCT M2-1 21"X15"	JCT M2-1 (INTERSTATE) 21"X15"	NORTH M3-1 24"X12"
NORTH M3-1 (INTERSTATE) 24"X12"	EAST M3-2 (INTERSTATE) 24"X12"	SOUTH M3-3 24"X12"	SOUTH M3-3 (INTERSTATE) 24"X12"	WEST M3-4 (INTERSTATE) 24"X12"	TO M4-5 24"X12"	TO M4-5 (INTERSTATE) 24"X12"	M5-1L 21"X15"	M5-1R 21"X15"	M6-1L 21"X15"
M6-1R 21"X15"	M6-3 21"X15"	M5-1L (INTERSTATE) 21"X15"	M5-1R (INTERSTATE) 21"X15"	M6-1L (INTERSTATE) 21"X15"	M6-1R (INTERSTATE) 21"X15"	M6-3 (INTERSTATE) 21"X15"	OM4-1 18"X18"		

GENERAL NOTES:

1. ZZ SHEETING SHALL BE USED FOR ALL GREEN BOARD DETAILS.

LIN ENGINEERING,LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = $USER$	DESIGNED - ST	REVISED -
		DRAWN - AS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ST	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

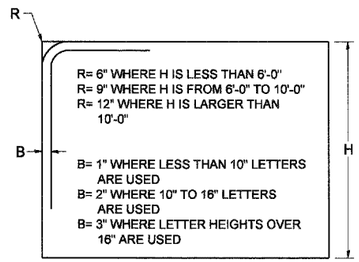
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGNING DETAILS

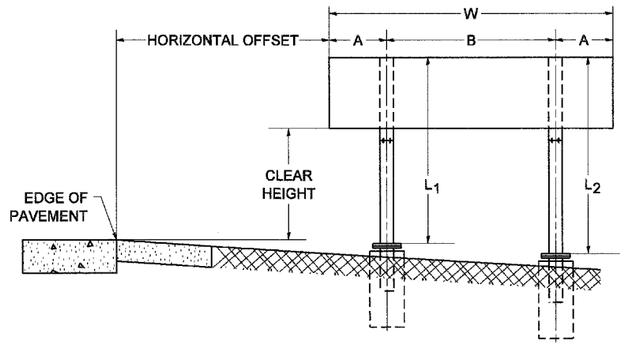
SCALE: N/A | SHEET NO. 4 OF 7 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	211
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

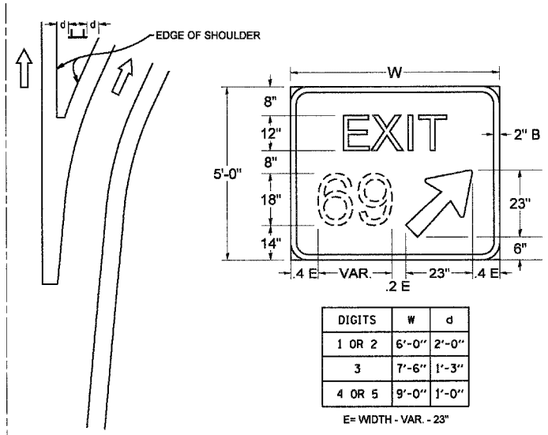


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

"L_1" IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

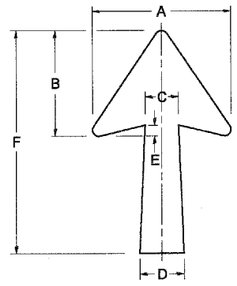
GORE SIGNS



DIGITS	W	d
1 OR 2	6'-0"	2'-0"
3	7'-6"	1'-3"
4 OR 5	9'-0"	1'-0"

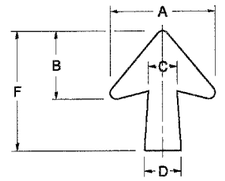
E= WIDTH - VAR. - 23"

STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



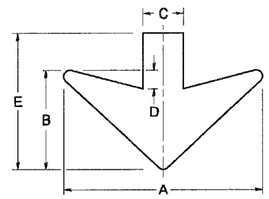
ARROW SYMBOL	A	B	C	D	E	F	R
24¼ x 15⅛	15⅛	11 3/16	3¾	5	1 5/16	24¼	1 5/16
29¼ x 18¼	18¼	14	4½	6	1½	29¼	¾
35⅝ x 22¼	22¼	17	5⅜	7⅛	1¾	35⅝	1
18¼ x 11¼	11¼	8¾	3⅛	3⅜		18¼	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS



ARROW SYMBOL	A	B	C	D	E	F	R
17¼ x 14¼	14¼	9 3/16	3⅜	4½	5/16	17¼	¾
20¼ x 17¼	17¼	11¾	4⅜	5⅝	1½	20¼	
25 x 21⅜	21⅜	14¼	5	6¾	1¾	25	1
9 9/16 x 8⅛	8⅛	5⅛	2 5/16	2 5/16		9 9/16	½

DOWN ARROWS



ARROW SYMBOL	A	B	C	D	E	R
16½ x 24	24	12	5	1½	16½	¾
22 x 32	32	16	6½	3	22	1

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

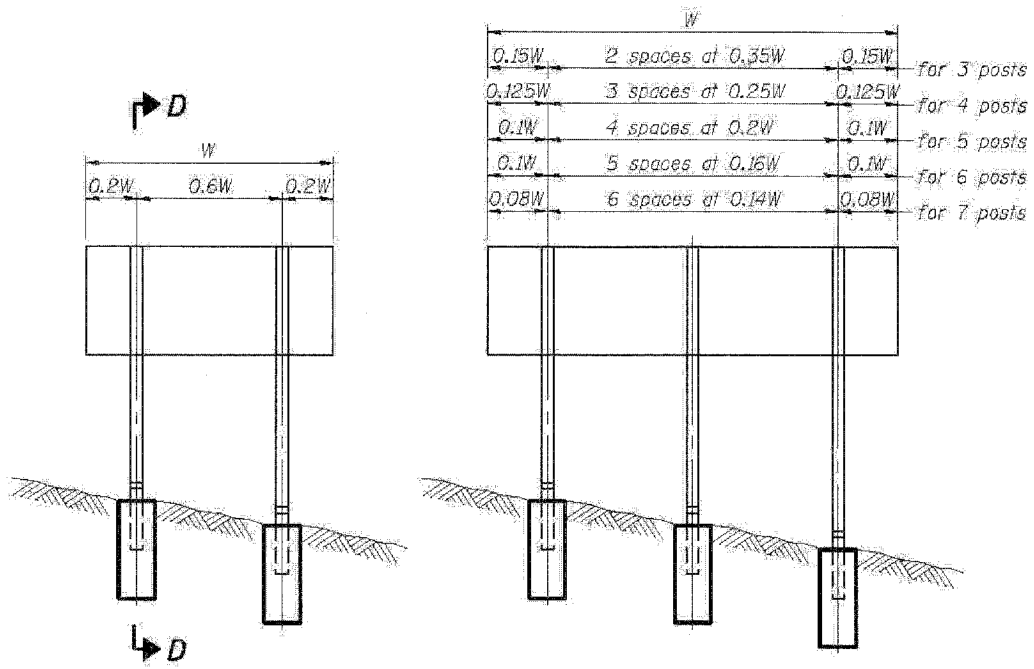
USER NAME = Plotted by Scott Wilkinson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

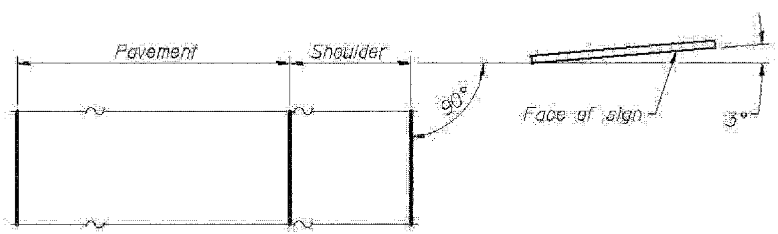
SIGNING DETAILS

SCALE: N/A | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

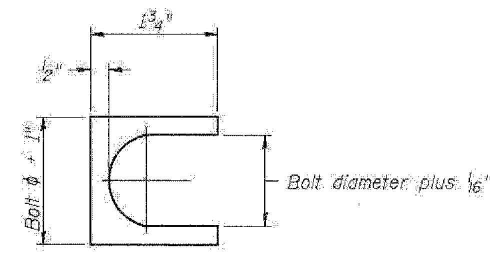
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	212
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELEVATION

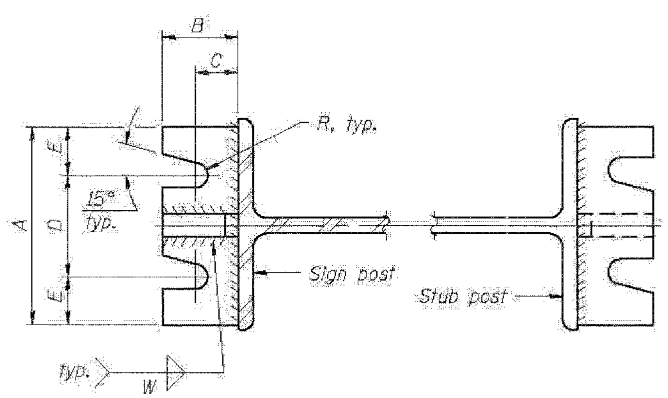


LOCATION SKETCH



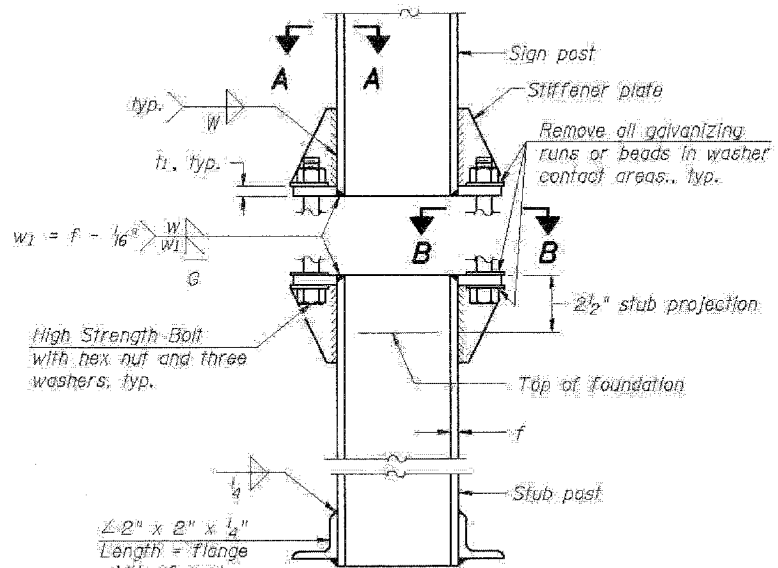
SHIM DETAIL

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

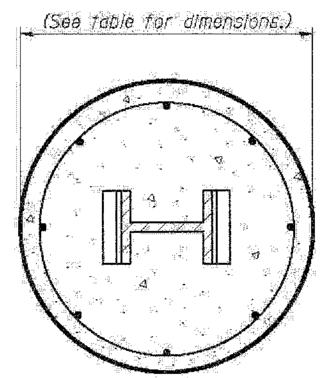


SECTION A-A

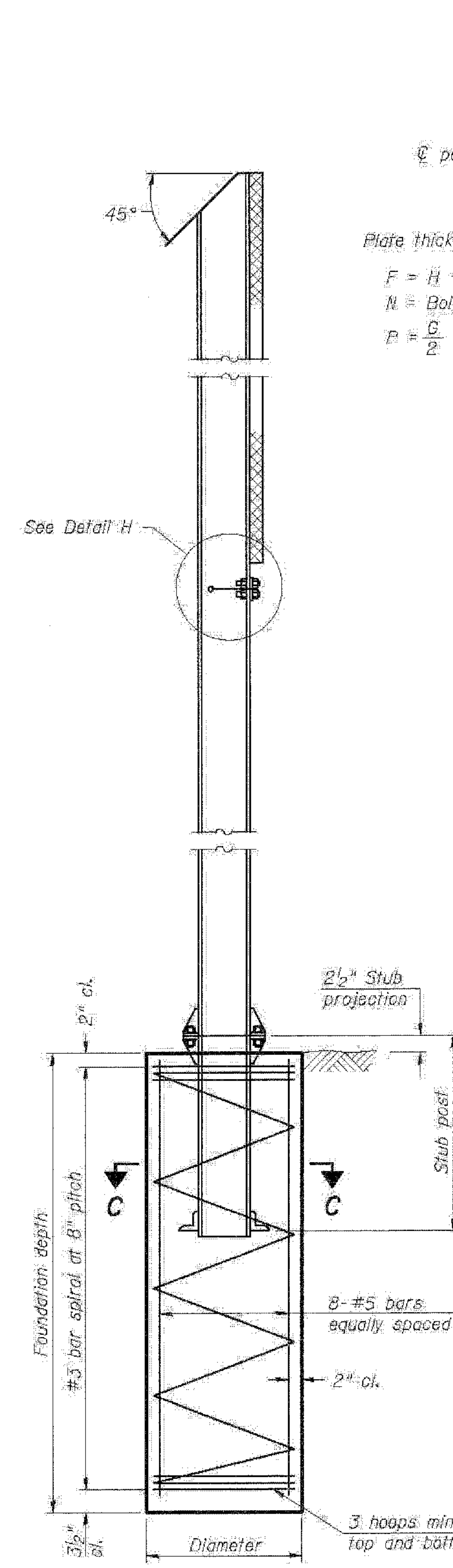
SECTION B-B



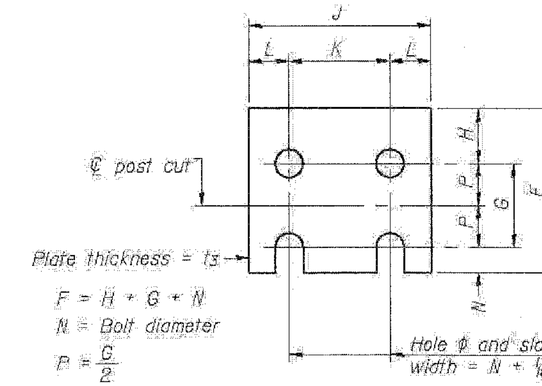
ELEVATION
SIGN POST & STUB POST



SECTION C-C



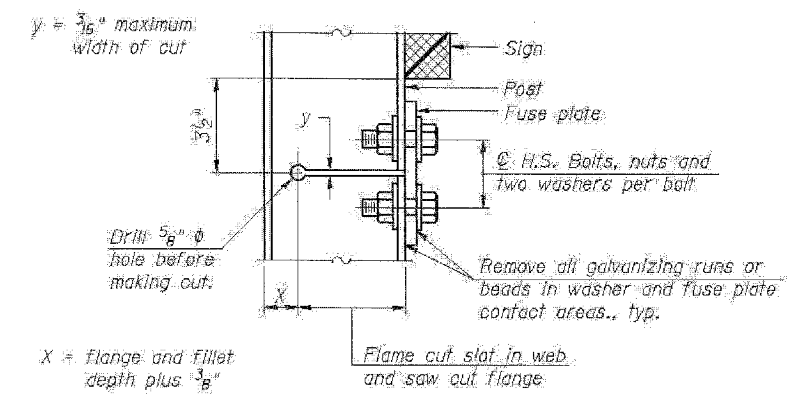
SECTION D-D



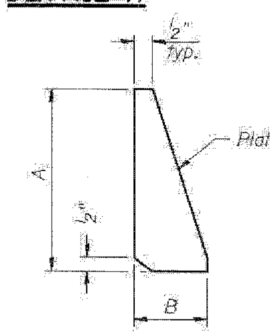
FUSE PLATE DETAIL

(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
½"	2"	1⅛"
⅝"	2¼"	1¼"
¾"	2½"	1⅜"
⅞"	2¾"	1½"
1"	3"	1⅝"
1⅛"	3¼"	1¾"
1¼"	3½"	1⅞"



DETAIL H



STIFFENER PLATE DETAIL

Diameter

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.

(Sheet 1 of 2)

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = Plotted by Scott Wilkinson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGNING DETAILS

SCALE: N/A | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	213
		CONTRACT NO. 76E06		

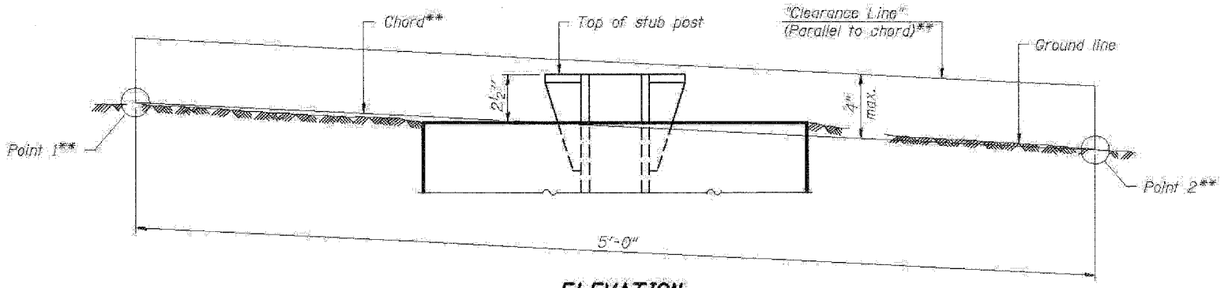
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

$$$ref_list_name$$$ $$$$date_time$$$$ $$user$$ $$$$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post														
	Diameter	*Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t_1	t_2	R	W	J	K	L	t_3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¾"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	7⅝"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3½"	6"	2¼"	1¾"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	11⅞"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	11¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	11½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	11½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	11½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	11⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	11⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	11¾"	½"

*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	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	—	—	—	—	—	—	—	—	—	—	—	—
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	—	—	—	—	—	—	—	—
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	—	—	—	—	—	—	—
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	—	—	—	—	—	—
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	—	—	—	—	—
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	—	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



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.

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = Plotted by Scott Wilkinson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/17/2011	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGNING DETAILS

SCALE: N/A | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	214
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF SIGNS

					PROPOSED PANEL DIMENSIONS		SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	WOOD SIGN SUPPORT	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT	SIGN SUPPORT SPECIAL	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	CONCRETE FOUNDATIONS
SIGN	STATION	OFFEST	ALIGNMENT	SHEET	WIDTH (IN)	HEIGHT (IN)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(POUND)	(CU YD)
R1-1	20+81	LT	CONNECTOR	206	36	36	9			17.5					
W4-4p	20+81	LT	CONNECTOR	206	24	12	2								
M4-5(INTERSTATE)	22+00	LT	CONNECTOR	206	24	12	2			37					
M4-5(INTERSTATE)	22+00	LT	CONNECTOR	206	24	12	2								
M4-5(INTERSTATE)	22+00	LT	CONNECTOR	206	24	12	2								
M6-1L(INTERSTATE)	22+00	LT	CONNECTOR	206	21	15	2.1875								
M6-1L(INTERSTATE)	22+00	LT	CONNECTOR	206	21	15	2.1875								
M6-1L(INTERSTATE)	22+00	LT	CONNECTOR	206	21	15	2.1875								
M1-1	22+00	LT	CONNECTOR	206	24	24	4								
M1-1	22+00	LT	CONNECTOR	206	24	24	4								
M1-1	22+00	LT	CONNECTOR	206	24	24	4								
M3-1(INTERSTATE)	22+00	LT	CONNECTOR	206	24	12	2								
M3-2(INTERSTATE)	22+00	LT	CONNECTOR	206	24	12	2								
W3-1	23+00	LT	CONNECTOR	205	30	30	6.25			16					
R2-1	25+00	RT	CONNECTOR	205	24	30	5			16					
M4-5(INTERSTATE)	26+00	LT	CONNECTOR	205	24	12	2			37					
M4-5(INTERSTATE)	26+00	LT	CONNECTOR	205	24	12	2								
M4-5(INTERSTATE)	26+00	LT	CONNECTOR	205	24	12	2								
M1-1	26+00	LT	CONNECTOR	205	24	24	4								
M3-1(INTERSTATE)	26+00	LT	CONNECTOR	205	24	12	2								
M3-2(INTERSTATE)	26+00	LT	CONNECTOR	205	24	12	2								
M1-1	26+00	LT	CONNECTOR	205	24	24	4								
M1-1	26+00	LT	CONNECTOR	205	24	24	4								
M5-1L(INTERSTATE)	26+00	LT	CONNECTOR	205	21	15	2.1875								
M5-1L(INTERSTATE)	26+00	LT	CONNECTOR	205	21	15	2.1875								
M5-1L(INTERSTATE)	26+00	LT	CONNECTOR	205	21	15	2.1875								
M2-1	26+00	RT	CONNECTOR	205	21	15	2.1875			17					
M1-5	26+00	RT	CONNECTOR	205	24	24	4								
M3-1	29+00	RT	CONNECTOR	205	24	12	2			17					
M3-3	29+00	RT	CONNECTOR	205	24	12	2								
M1-5	29+00	RT	CONNECTOR	205	24	24	4								
M1-5	29+00	RT	CONNECTOR	205	24	24	4								
M6-1L	29+00	RT	CONNECTOR	205	21	15	2.1875								
M6-1R	29+00	RT	CONNECTOR	205	21	15	2.1875								
R2-1	30+00	LT	CONNECTOR	205	24	30	5			16					
W3-1	30+00	RT	CONNECTOR	205	30	30	6.25			16					
R1-1	32+00	RT	CONNECTOR	205	30	30	6.25			17					
W4-4P	32+00	RT	CONNECTOR	205	24	12	2								
W14-1	1015+00	RT	DARLING ACCESS	203	30	30	6.25			16					
OM4-1	1017+75	LT	DARLING ACCESS	203	18	18	2.25				9	1			
OM4-1	1017+75	RT	DARLING ACCESS	203	18	18	2.25				9	1			
R11-2	1017+75	N/A	DARLING ACCESS	203	48	30		10			11	1			
R2-1	108+00	RT	EX. IL RTE. 3	206	24	30	5			15.5					
W3-5	108+50	LT	EX. IL RTE. 3	206	36	36	9			18					
W10-1	110+00	LT	EX. IL RTE. 3	205	36	DIA.	7.0685			16					
W1-7	114+75	RT	EX. IL RTE. 3	205	48	24	8			15					
M4-5(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M4-5(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M4-5(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M4-5(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M4-5(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M1-1	116+00	LT	EX. IL RTE. 3	205	24	24	4			37					
M1-5	116+00	LT	EX. IL RTE. 3	205	24	24	4								
M3-3	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M6-3	116+00	LT	EX. IL RTE. 3	205	21	15	2.1875								
M3-1(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M3-2(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M1-1	116+00	LT	EX. IL RTE. 3	205	24	24	4			35					
M1-1	116+00	LT	EX. IL RTE. 3	205	24	24	4								
M1-1	116+00	LT	EX. IL RTE. 3	205	24	24	4								
M1-1	116+00	LT	EX. IL RTE. 3	205	24	24	4								
M3-3(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M3-4(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	24	12	2								
M6-1R(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	21	15	2.1875								
M6-1R(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	21	15	2.1875								
M6-1R(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	21	15	2.1875								
M6-3(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	21	15	2.1875								
M6-3(INTERSTATE)	116+00	LT	EX. IL RTE. 3	205	21	15	2.1875								
M3-4(INTERSTATE)	36+50	RT	PR. EXCHANGE	203	24	12	2								
M1-1	36+50	RT	PR. EXCHANGE	203	24	24	4			17					
M6-1R(INTERSTATE)	36+50	RT	PR. EXCHANGE	203	21	15	2.1875								
W14-1	37+00	LT	PR. EXCHANGE	203	30	30	6.25			16					
GS1	38+00	LT	PR. EXCHANGE	203	102	76			54					510	1.40
W1-7	38+00	LT	PR. EXCHANGE	203	48	24	8			16					
R4-7	38+65	RT	PR. EXCHANGE	203	24	30	5				14.5	1			
M4-5(INTERSTATE)	42+50	RT	PR. EXCHANGE	203	24	12	2								

* TWO POSTS NECESSARY; DIVIDE LENGTH IN HALF FOR LENGTH OF ONE POST

SCHEDULE OF SIGNS CONT.

					PROPOSED PANEL DIMENSIONS		SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	WOOD SIGN SUPPORT	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT	SIGN SUPPORT SPECIAL	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	CONCRETE FOUNDATIONS
SIGN	STATION	OFFEST	ALIGNMENT	SHEET	WIDTH (IN)	HEIGHT (IN)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(POUND)	(CU YD)
M4-5	42+50	RT	PR. EXCHANGE	203	24	12	2			18					
M1-5	42+50	RT	PR. EXCHANGE	203	24	24	4								
M1-1	42+50	RT	PR. EXCHANGE	203	24	24	4								
M5-1R	42+50	RT	PR. EXCHANGE	203	21	15	2.1875								
M5-1R(INTERSTATE)	42+50	RT	PR. EXCHANGE	203	21	15	2.1875								
M3-2(INTERSTATE)	42+50	LT	PR. EXCHANGE	203	24	12	2								
M3-4(INTERSTATE)	43+50	LT	PR. EXCHANGE	204	24	12	2								
M1-1	43+50	LT	PR. EXCHANGE	204	24	24	4			17					
M5-1L(INTERSTATE)	43+50	LT	PR. EXCHANGE	204	21	15	2.1875								
R4-7	43+95	RT	PR. EXCHANGE	204	24	30	5				14.5	1			
R2-1	47+00	LT	PR. EXCHANGE	204	24	30	5			15.5					
M4-5(INTERSTATE)	47+00	RT	PR. EXCHANGE	204	24	12	2								
M4-5	47+00	RT	PR. EXCHANGE	204	24	12	2								
M3-2(INTERSTATE)	47+00	RT	PR. EXCHANGE	204	24	12	2								
M1-1	47+00	RT	PR. EXCHANGE	204	24	24	4			17.5					
M1-5	47+00	RT	PR. EXCHANGE	204	24	24	4								
M6-1R	47+00	RT	PR. EXCHANGE	204	21	15	2.1875								
M6-1R(INTERSTATE)	47+00	RT	PR. EXCHANGE	204	21	15	2.1875								
M4-5(INTERSTATE)	50+60	LT	PR. EXCHANGE	204	24	12	2								
M1-1	50+60	LT	PR. EXCHANGE	204	24	24	4			16.5					
M3-4(INTERSTATE)	50+60	LT	PR. EXCHANGE	204	24	12	2								
M6-1L	50+60	LT	PR. EXCHANGE	204	21	15	2.1875								
W1-7	50+80	LT	PR. EXCHANGE	204	48	24	8			16					
M4-5(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	24	12	2								
M4-5(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	24	12	2								
M1-1	51+20	LT	PR. EXCHANGE	204	24	24	4			39.5					
M1-1	51+20	LT	PR. EXCHANGE	204	24	24	4								
M3-4(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	24	12	2								
M3-2(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	24	12	2								
M3-2(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	24	12	2								
M6-1L(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	21	15	2.1875								
M6-1L(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	21	15	2.1875								
M6-1L(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	21	15	2.1875								
M6-3(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	21	15	2.1875								
M3-1(INTERSTATE)	51+20	LT	PR. EXCHANGE	204	24	12	2								
M1-1	51+20	LT	PR. EXCHANGE	204	24	24	4								
M1-1	51+20	LT	PR. EXCHANGE	204	24	24	4								
M4-5	51+20	LT	PR. EXCHANGE	204	24	12	2								
M1-5	51+20	LT	PR. EXCHANGE	204	24	24	4								
M6-1L	51+20	LT	PR. EXCHANGE	204	21	15	2.1875								
R8-3a	54+00	LT	PR. EXCHANGE	204	24	30	5			15.5					
R8-3a	54+00	RT	PR. EXCHANGE	204	24	30	5			15.5					
M4-5(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	24	12	2								
M4-5(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	24	12	2								
M1-1	55+00	LT	PR. EXCHANGE	204	24	24	4			39.5					
M1-1	55+00	LT	PR. EXCHANGE	204	24	24	4								
M3-2(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	24	12	2								
M3-4(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	24	12	2								
M5-1L(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	21	15	2.1875								
M6-3(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	21	15	2.1875								
M3-2(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	24	12	2								
M3-1(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	24	12	2								
M1-1	55+00	LT	PR. EXCHANGE	204	24	24	4								
M1-1	55+00	LT	PR. EXCHANGE	204	24	24	4								
M5-1L(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	21	15	2.1875								
M5-1L(INTERSTATE)	55+00	LT	PR. EXCHANGE	204	21	15	2.1875								
M4-5	55+00	LT	PR. EXCHANGE	204	24	12	2								
M1-5	55+00	LT	PR. EXCHANGE	204	24	24	4								
M5-1L	55+00	LT	PR. EXCHANGE	204	21	15	2.1875								
R8-3a	56+00	LT	PR. EXCHANGE	204	24	30	5			14.5					
R8-3a	56+00	RT	PR. EXCHANGE	204	24	30	5			14.5					
OM4-1	1668+15	RT	PR. REL. IL RTE. 3	206	18	18	2.25				9	1			
OM4-1	1668+15	RT	PR. REL. IL RTE. 3	206	18	18	2.25				9	1			
OM4-1	1668+15	LT	PR. REL. IL RTE. 3	206	18	18	2.25				9	1			
OM4-1	1668+15	LT	PR. REL. IL RTE. 3	206	18	18	2.25				9	1			
R4-7	1669+77	LT	PR. REL. IL RTE. 3	206	24	30	5				14.5	1			
W1-7	1670+63	RT	PR. REL. IL RTE. 3	206	48	24	8			15.5					
M4-5	1671+34	LT	PR. REL. IL RTE. 3	206	24	12	2			17					
M1-5	1671+34	LT	PR. REL. IL RTE. 3	206	24	24	4								
M6-1R	1671+34	LT	PR. REL. IL RTE. 3	206	21	15	2.1875								
R4-7	1671+44	LT	PR. REL. IL RTE. 3	206	24	30	5				14.5	1			
R3-5R	1673+00	LT	PR. REL. IL RTE. 3	92	30	36	7.5			16					
R2-1	1674+00	RT	PR. REL. IL RTE. 3	206	24	30	5			16					
M4-5	1675+00	LT	PR. REL. IL RTE. 3	206	24	12	2			17					
M1-5	1675+00	LT	PR. REL. IL RTE. 3	206	24	24	4								
M5-1R	1675+00	LT	PR. REL. IL RTE. 3	206	21	15	2.1875								

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

USER NAME = $USER$
PLOT SCALE = $SCALE$
PLOT DATE = $DATE$

DESIGNED - RK
DRAWN - RK
CHECKED - ST
DATE - 10/21/11

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED ILLINOIS ROUTE 3 INTERCHANGE

SIGNS
SCHEDULE OF QUANTITIES

SCALE: N/A
SHEET NO. 1 OF 2 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	215

CONTRACT NO. 76E06
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SCHEDULE OF SIGNS CONT.

SIGN	STATION	OFFEST	ALIGNMENT	SHEET	PROPOSED PANEL DIMENSIONS WIDTH (IN)	PROPOSED PANEL DIMENSIONS HEIGHT (IN)	SIGN PANEL TYPE 1 (SQ FT)	SIGN PANEL TYPE 2 (SQ FT)	SIGN PANEL TYPE 3 (SQ FT)	WOOD SIGN SUPPORT (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)	SIGN SUPPORT SPECIAL (EACH)	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY (POUND)	CONCRETE FOUNDATIONS (CU YD)
R2-1	1675+00	LT	PR. REL. IL RTE. 3	206	24	30	5								
GS2	1676+50	RT	PR. REL. IL RTE. 3	206	254	281			496					6165	8.92
W3-1	1678+85	LT	PR. REL. IL RTE. 3	206	30	30	6.25				14.5	1			
M3-2(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2				18.5	2			
M1-1	1681+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M6-1R(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M4-5(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M3-1(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M1-1	1681+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M6-1R(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M4-5(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M3-2(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M1-1	1681+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M6-1R(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M4-5(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M3-4(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M1-1	1681+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M6-3(INTERSTATE)	1681+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
R1-1	1681+80	LT	PR. REL. IL RTE. 3	202	36	36	9						1		
R1-3P	1681+80	LT	PR. REL. IL RTE. 3	202	18	6	0.75								
R1-1	1681+85	RT	PR. REL. IL RTE. 3	202	36	36	9						1		
R1-3P	1681+85	RT	PR. REL. IL RTE. 3	202	18	6	0.75								
R1-1	1682+00	LT	PR. REL. IL RTE. 3	202	36	36	9				11	1			
R1-3P	1682+00	LT	PR. REL. IL RTE. 3	202	18	6	0.75								
R4-7	1682+00	LT	PR. REL. IL RTE. 3	202	24	30	5								
R1-1	1683+27	LT	PR. REL. IL RTE. 3	202	36	36	9						1		
R1-3P	1683+27	LT	PR. REL. IL RTE. 3	202	18	6	0.75								
R1-1	1683+47	LT	PR. REL. IL RTE. 3	202	36	36	9				11	1			
R1-3P	1683+47	LT	PR. REL. IL RTE. 3	202	18	6	0.75								
R4-7	1683+47	LT	PR. REL. IL RTE. 3	202	24	30	5								
GS3	1685+00	LT	PR. REL. IL RTE. 3	202	254	199			351					3825	6.27
M4-5(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	24	12	2			39					
M4-5(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M5-1L(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M5-1L(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M4-5	1686+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M3-2(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M3-2(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M1-1	1686+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M6-3	1686+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M5-1L(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875								
M1-5	1686+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M3-1(INTERSTATE)	1686+00	LT	PR. REL. IL RTE. 3	202	24	12	2								
M1-1	1686+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M1-1	1686+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
M2-1(INTERSTATE)	1687+00	LT	PR. REL. IL RTE. 3	202	21	15	2.1875			16					
M1-1(INTERSTATE)	1687+00	LT	PR. REL. IL RTE. 3	202	24	24	4								
W3-1	1688+00	LT	PR. REL. IL RTE. 3	204	30	30	6.25			16.5					
W3-1	1689+00	RT	PR. REL. IL RTE. 3	204	30	30	6.25			15.75					
M4-5(INTERSTATE)	1691+00	RT	PR. REL. IL RTE. 3	204	24	12	2								
M3-4(INTERSTATE)	1691+00	RT	PR. REL. IL RTE. 3	204	24	12	2								
M1-1	1691+00	RT	PR. REL. IL RTE. 3	204	24	24	4			18					
M5-1L(INTERSTATE)	1691+00	RT	PR. REL. IL RTE. 3	204	21	15	2.1875								
R2-1	1691+75	LT	PR. REL. IL RTE. 3	204	24	30	5			15.75					
R4-7	1692+30	LT	PR. REL. IL RTE. 3	204	24	30	5				14.5	1			
D3-1	1692+64	RT	PR. REL. IL RTE. 3	204	48	12	4			14					
D3-1	1692+64	RT	PR. REL. IL RTE. 3	204	48	12	4								
M4-5	20+00	RT	RAMP A	202	24	12	2						1		
M1-5	20+00	RT	RAMP A	202	24	24	4								
M5-1R	20+00	RT	RAMP A	202	21	15	2.1875								
W3-1	21+00	RT	RAMP A	202	30	30	6.25						1		
R5-1a	23+00	LT	RAMP A	202	36	24	6						1		
R5-1a	23+00	RT	RAMP A	202	36	24	6						1		
R5-1	24+00	LT	RAMP A	202	30	30	6.25						1		
R5-1	24+00	RT	RAMP A	202	30	30	6.25						1		
M4-5	24+00	RT	RAMP A	202	24	12	2								
M1-5	24+00	RT	RAMP A	202	24	24	4								
M6-1R	24+00	RT	RAMP A	202	21	15	2.1875								
R1-1	24+55	RT	RAMP A	202	36	36	9				10	1			
R1-3P	24+55	RT	RAMP A	202	18	6	0.75								
M4-5	24+60	RT	RAMP A	202	24	12	2				35	2			
M1-5	24+60	RT	RAMP A	202	24	24	4								
M6-3	24+60	RT	RAMP A	202	21	15	2.1875								
M4-5(INTERSTATE)	24+60	RT	RAMP A	202	24	12	2								
M4-5(INTERSTATE)	24+60	RT	RAMP A	202	24	12	2								
M3-1(INTERSTATE)	24+60	RT	RAMP A	202	24	12	2								
M3-2(INTERSTATE)	24+60	RT	RAMP A	202	24	12	2								
M3-2(INTERSTATE)	24+60	RT	RAMP A	202	24	12	2								

SIGN	STATION	OFFEST	ALIGNMENT	SHEET	PROPOSED PANEL DIMENSIONS WIDTH (IN)	PROPOSED PANEL DIMENSIONS HEIGHT (IN)	SIGN PANEL TYPE 1 (SQ FT)	SIGN PANEL TYPE 2 (SQ FT)	SIGN PANEL TYPE 3 (SQ FT)	WOOD SIGN SUPPORT (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)	SIGN SUPPORT SPECIAL (EACH)	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY (POUND)	CONCRETE FOUNDATIONS (CU YD)
M1-1	24+60	RT	RAMP A	202	24	24	4								
M1-1	24+60	RT	RAMP A	202	24	24	4								
M1-1	24+60	RT	RAMP A	202	24	24	4								
M6-1L(INTERSTATE)	24+60	RT	RAMP A	202	21	15	2.1875								
M6-1L(INTERSTATE)	24+60	RT	RAMP A	202	21	15	2.1875								
M6-1L(INTERSTATE)	24+60	RT	RAMP A	202	21	15	2.1875								
M4-5	118+00	RT	RAMP C	203	24	12	2			17					
M1-5	118+00	RT	RAMP C	203	24	24	4								
M6-1R	118+00	RT	RAMP C	203	21	15	2.1875								
R5-1a	119+00	RT	RAMP C	203	36	24	6			15					
R5-1a	119+00	LT	RAMP C	203	36	24	6			14.75		1			
R1-2	120+00	RT	RAMP C	203	36	36	9			16					
D3-1	120+00	LT	RAMP C	203	48	12	4				16.25	1			
D3-1	120+00	LT	RAMP C	203	48	12	4								
R1-1	120+03	LT	RAMP C	203	36	36	9				16.25	1			
W4-4P	120+03	LT	RAMP C	203	24	12	2								
R5-1	120+03	LT	RAMP C	203	30	30	6.25								
R1-1	120+14	LT	RAMP C	203	36	36	9				16.25	1			
W4-4P	120+14	LT	RAMP C	203	24	12	2								
R5-1	120+14	LT	RAMP C	203	30	30	6.25								
W4-2R	251+75	RT	RAMP D	203	36	36	9			16					
W13-3	253+00	RT	RAMP D	203	36	48		12		15					
						TOTAL	851.38	22	901	957.75	286.25	24	9	10500	16.59
						ROUNDED TOTALS	852	22	901	958	287	24	9	10500	16.6

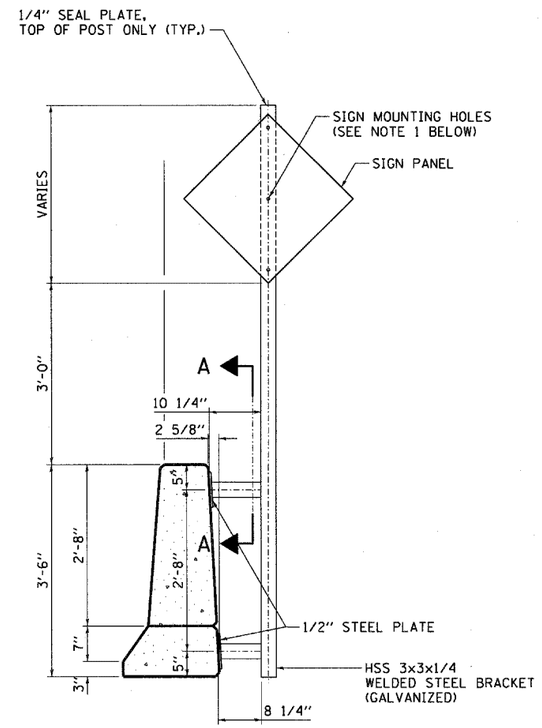
REMOVE SIGN PANEL ASSEMBLY - TYPE A

ALIGNMENT	STATION	OFFSET	EACH
EX. IL RTE. 3	107+77	RT	1
EX. IL RTE. 3	107+80	LT	1
PR. EXCHANGE	52+00	RT	1
PR. EXCHANGE	56+15	LT	1
PR. EXCHANGE	57+40	RT	1
		TOTAL	5

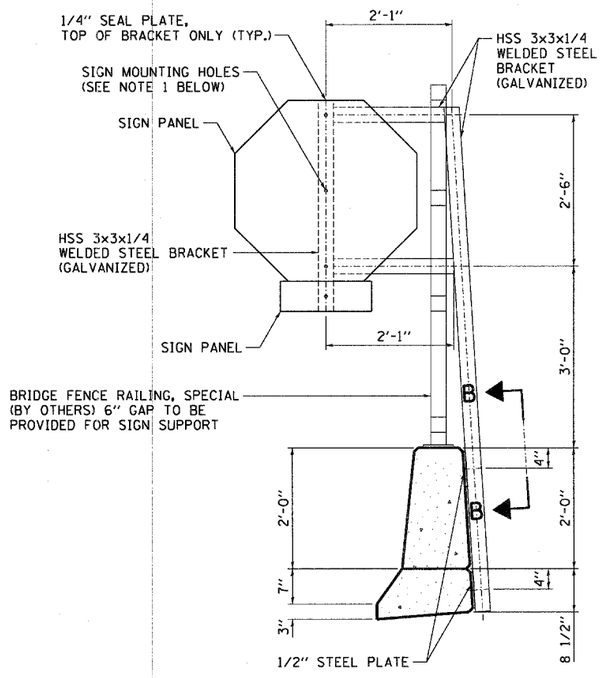
RELOCATE EXISTING SIGNS

	FROM		TO		
ALIGNMENT	STATION	LT/ RT	STATION	LT/ RT	EACH
PR. EXCHANGE	51+18	LT	1692+38	RT	1
PR. EXCHANGE	52+70	RT	52+70	RT	1
		TOTAL			2

* TWO POSTS NECESSARY; DIVIDE LENGTH IN HALF FOR LENGTH OF ONE POST

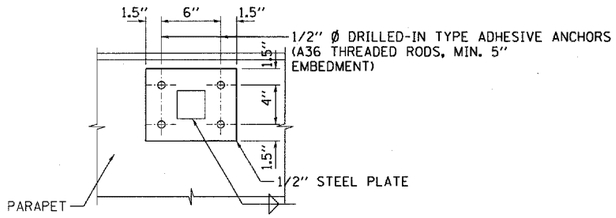


SIGN SUPPORT ATTACHED TO PARAPET

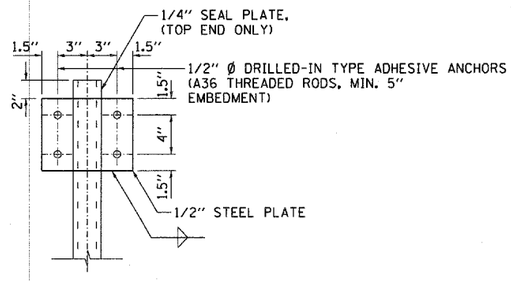


STA. 1683+27 LT (RELOCATED IL ROUTE 3)
LOOKING WEST

STOP SIGN SUPPORT ATTACHED TO PARAPET BETWEEN FENCE POSTS



SECTION A-A



SECTION B-B

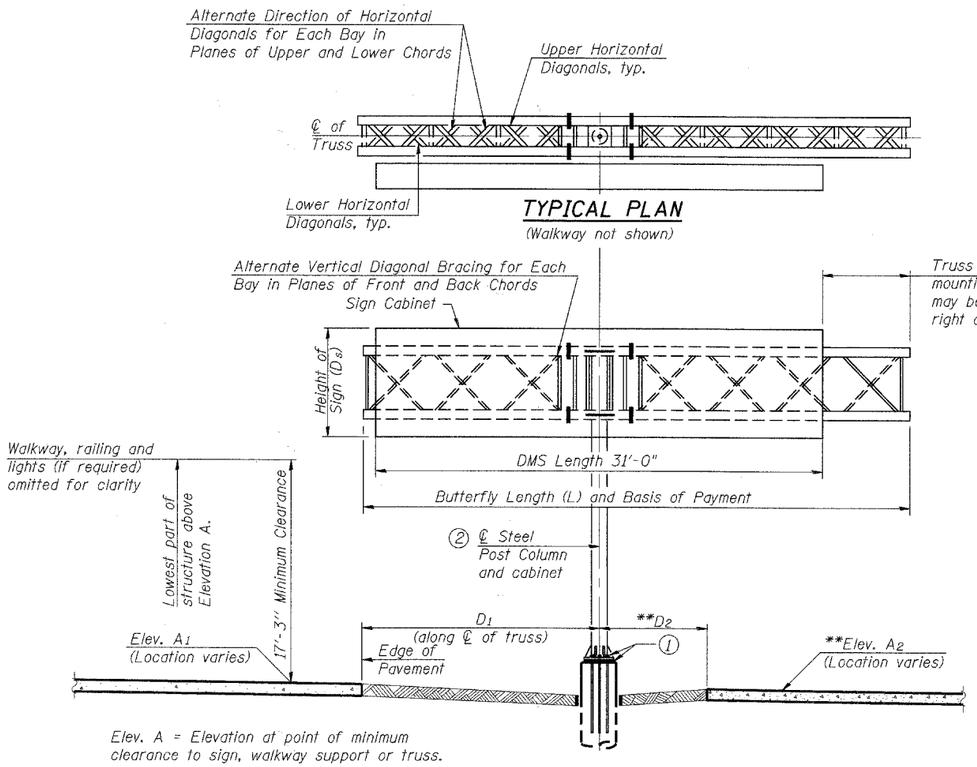
NOTE:
1. COORDINATE SIZE AND LOCATION OF SIGN MOUNTING HOLES WITH SIGN PANEL DETAILS (TYP.)

2. ALL SIGN SUPPORT CONFIGURATIONS PER THIS DETAIL SHALL BE PAID FOR AS SIGN SUPPORT SPECIAL.

..\DSCONN-11-BORDERLOGN
11-04-2011, 16:58:45 BONDHUJO \\FS-0244\JAM\VAULT\D-TRANS.07\2202\20858-201\CIVIL\CADD\99 ALL CONTRACTS\CONN\SHEETS CONTRACT 11\DSCONN-11-SHT-SIGNSLUDGN

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE	PARAPET MOUNTED SIGN DETAIL
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - JFS	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -		
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	217
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL ELEVATION

Looking in Direction of Traffic

** Elevation A2 and dimension D2 not used when butterfly structure is mounted on right side of the shoulder.

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

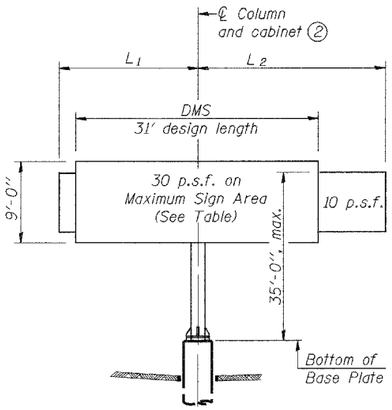
Structure Number	Station	Total Butterfly Length (L)	Elev. A_1	Elev. A_2	Dim. D_1	Dim. D_2	D_S	Total Sign Area	Access door and walkway location (Right or Left end)
8F0821070R000.9	116+90	38'-2"	470.91	---	12'-8"	---	9'-0"	279	Left

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE III-F-A	Foot	38.2
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	6.7
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	---

TRUSS TYPE	MAXIMUM TOTAL DMS SIGN CABINET AREA
III-F-A	300 Sq. Ft.

Mamimum DMS weight = 5000 LB.



DESIGN WIND LOADING DIAGRAM

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

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

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

② Centerline cabinet must be located at centerline of column.

* 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.

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
WIND LOADING: 30 p.s.f. normal to DMS Cabinet Area and truss elements not behind sign Loading Diagram.
WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 p.s.i.
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* (M183, M223 Gr. 50, or M222). Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

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

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

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

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

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

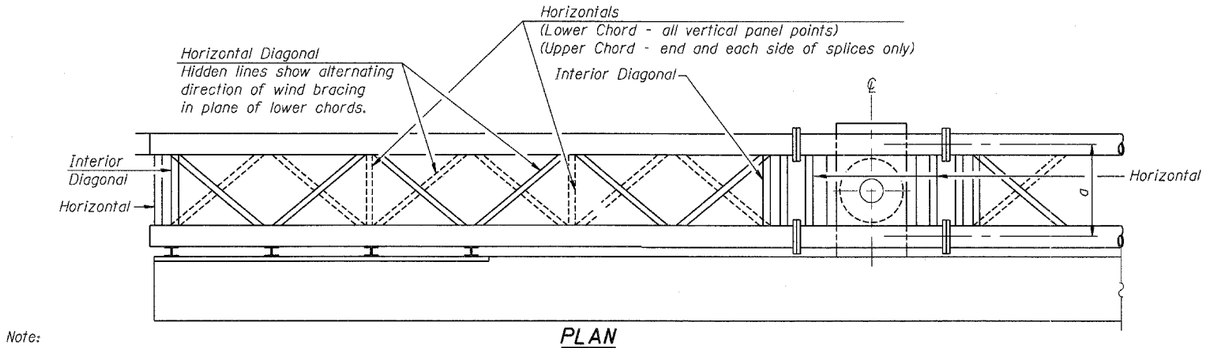
STATE OF ILLINOIS
BYRON T. DANLEY
081-004737
CHICAGO
IL
LICENSED STRUCTURAL ENGINEER

BYRON T. DANLEY
EXPIRES: 11/30/12
DATE : 10/26/11
SHEETS: 218-226

OSF-A-1-DMS-SPECIAL

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JLR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - JLR	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -	BUTTERFLY SIGN STRUCTURES - ALTERNATE PLAN & ELEVATION FOR DMS - ALUMINUM TRUSS & STEEL POST
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.

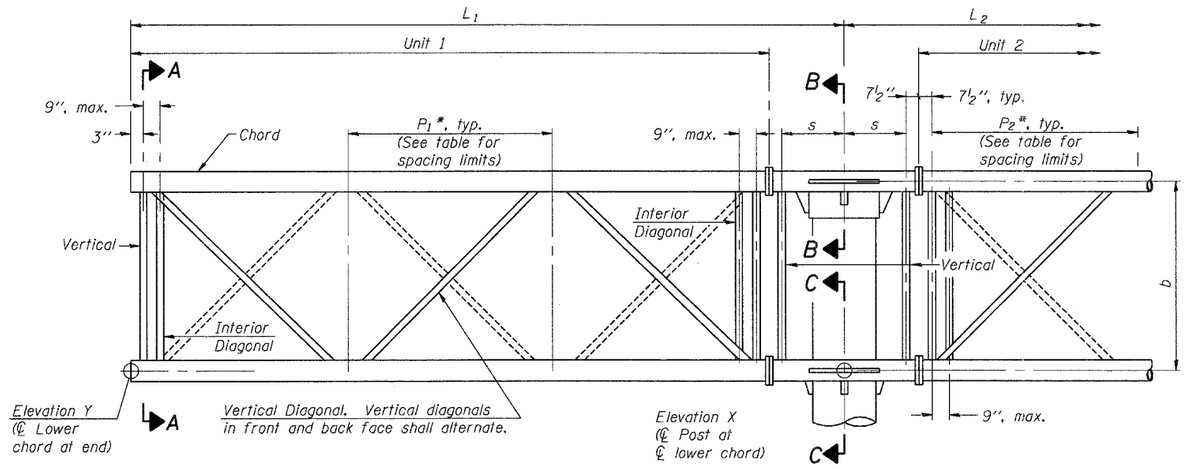
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	218
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Note:
There are twice as many horizontal diagonals as there are vertical diagonals.

PLAN

(Walkway not shown)



ELEVATION

(Sign and walkway omitted for clarity)

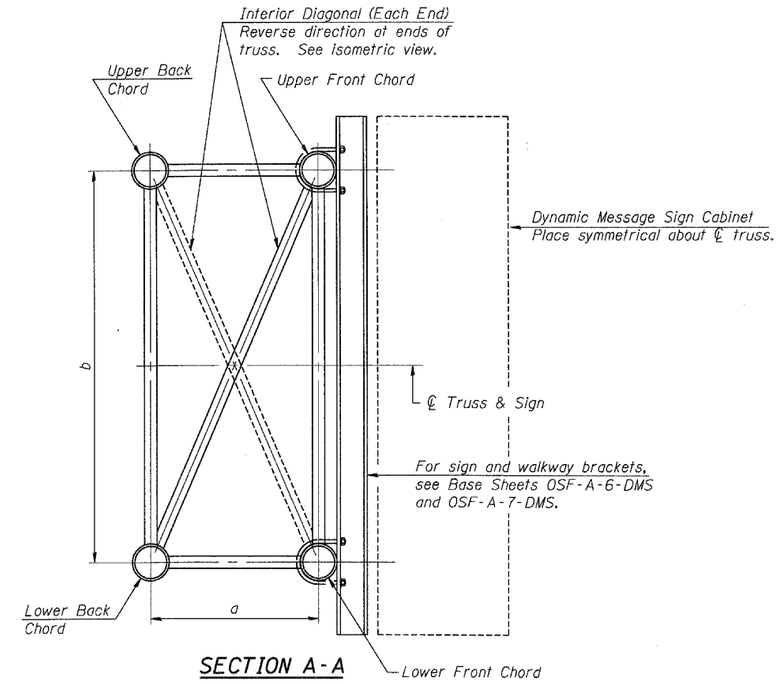
TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSF-A-3-DMS

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D.	Up. & Low. Chord Wall	Verticals; Horizontals; Vertical Horizontals; and Interior Diagonals	
III-F-A	36"	84"	21"	48" min. to 66" max.	7"	⅜"	3½"	⅜"

$$*P = \frac{L - s - 1'\text{-}6''}{\#\ \text{Panels}}$$



SECTION A-A

Structure Number	Station	Truss Type	L_1	L_2	Number of Panels Unit 1	Panel Length (P_1)*	Number of Panels Unit 2	Panel Length (P_2)*
8F0821070R000.9	116+90	III-F-A	16'-0"	22'-2"	3	4'-3"	4	4'-8¾"

OSF-A-2-DMS 1-20-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JLR	REVISED -
		DRAWN - JLR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

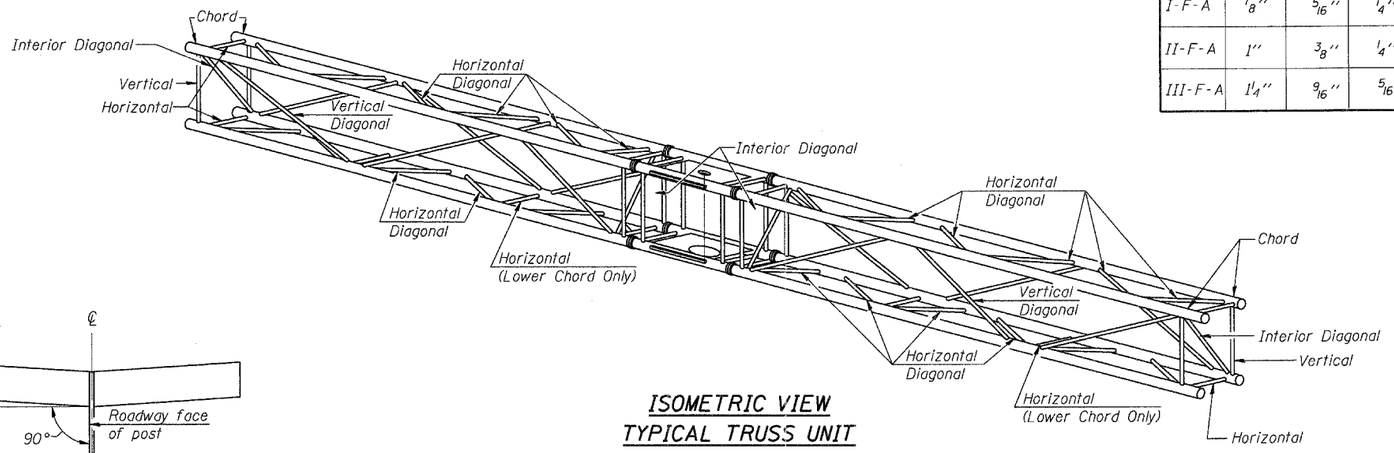
BUTTERFLY SIGN STRUCTURES – ALTERNATE TRUSS DETAILS FOR DMS
ALUMINUM TRUSS & STEEL POST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	219
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHOP CAMBER TABLE

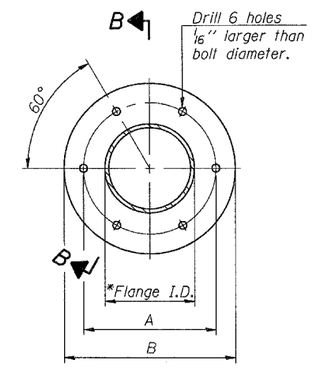
Unit Length L_1 or L_2	Shop Camber at End
15'	$1\frac{1}{2}$''
16'-17'	$1\frac{3}{4}$''
18'-20'	2''
21'-22'	$2\frac{1}{4}$''
23'-25'	$2\frac{1}{2}$''
26'-27'	$2\frac{3}{4}$''
28'-30'	3''
31'-32'	$3\frac{1}{4}$''
33'-35'	$3\frac{1}{2}$''



ISOMETRIC VIEW TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

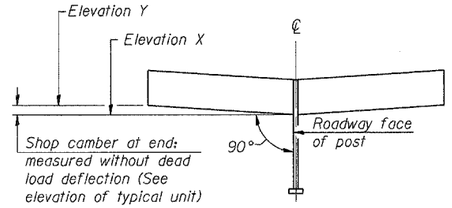
Truss Type	Bolts	Weld Sizes		A	B
	Dia.	W	W_1		
I-F-A	$\frac{7}{8}$''	$\frac{5}{16}$''	$\frac{1}{4}$''	$8\frac{3}{4}$''	$11\frac{3}{4}$''
II-F-A	1''	$\frac{3}{8}$''	$\frac{1}{4}$''	11''	$14\frac{1}{2}$''
III-F-A	$1\frac{1}{4}$''	$\frac{9}{16}$''	$\frac{5}{16}$''	$11\frac{1}{2}$''	15''



SPLICING FLANGE

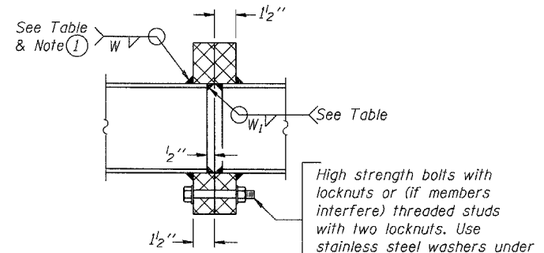
ASTM b221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651

* To fit O.D. of Chord with maximum gap of $\frac{1}{16}$''.

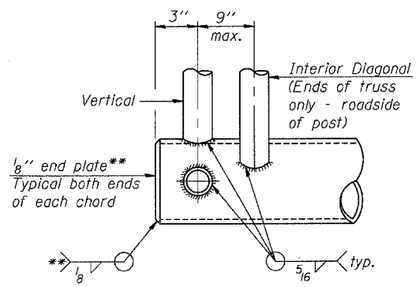


CAMBER DIAGRAM

(For Fabrication Only)

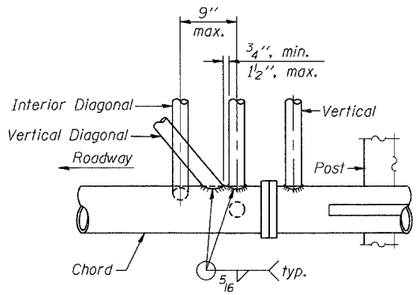


SECTION B-B

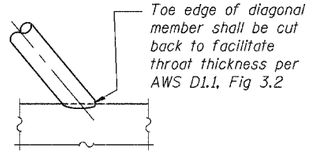


BUTTERFLY END JOINT DETAIL

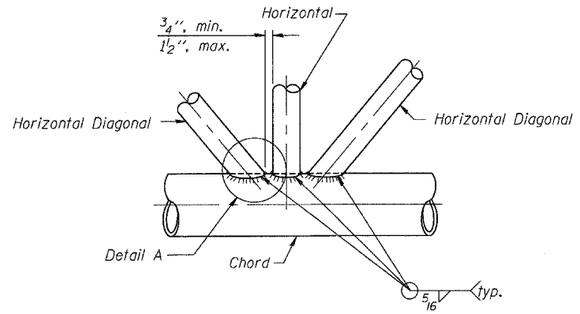
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.



POST END JOINT DETAIL



DETAIL A



TRUSS INTERIOR JOINT DETAIL

(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.

OSF-A-2A 1-20-11

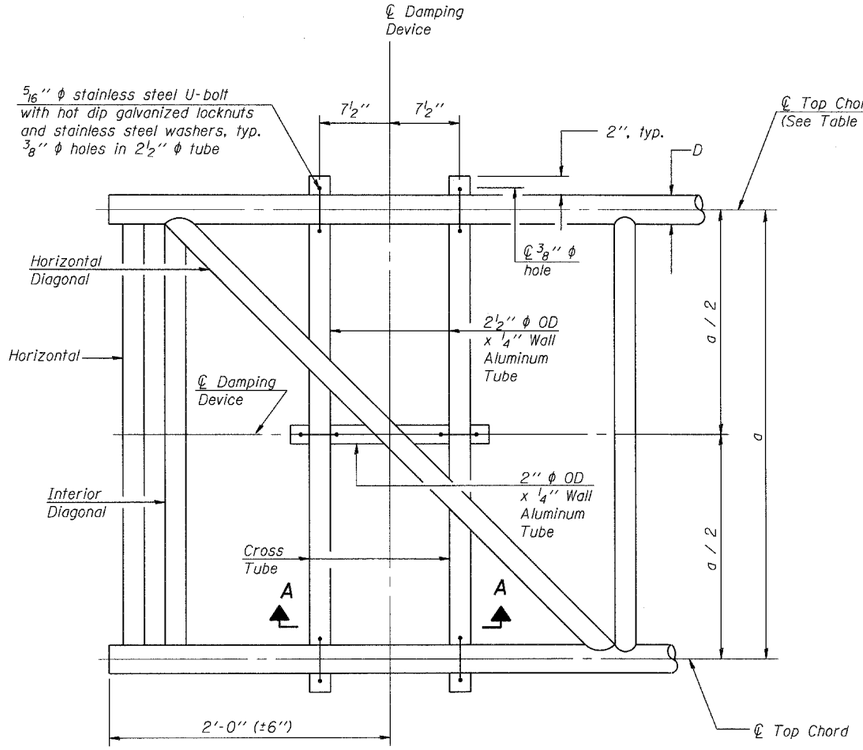
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JLR	REVISED -
		DRAWN - JLR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

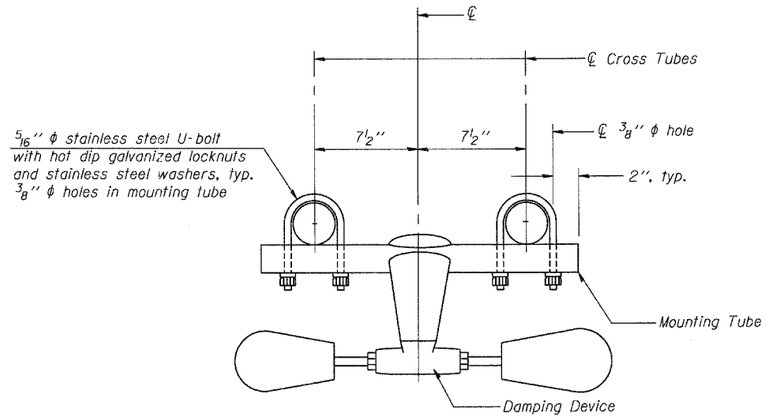
BUTTERFLY SIGN STRUCTURES – TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

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

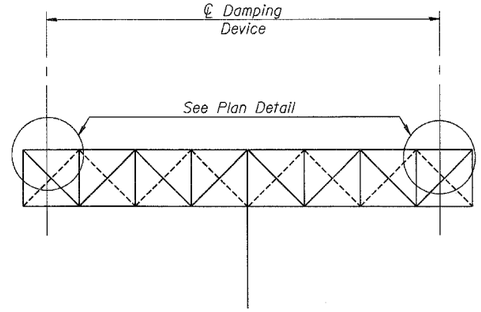
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	220
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL



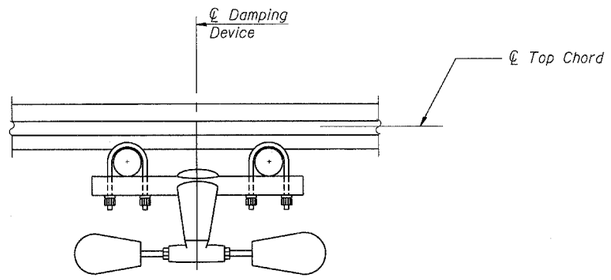
ELEVATION

Aluminum Butterfly Sign Structure

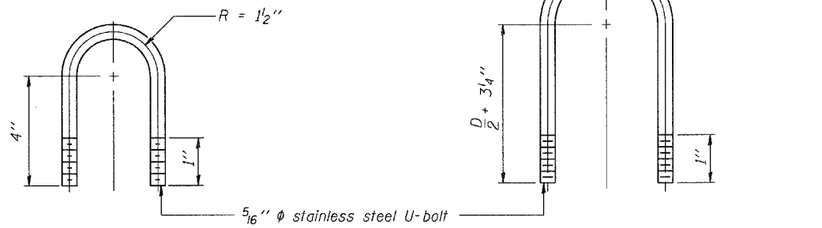
GENERAL NOTES

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

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



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

(Typical)

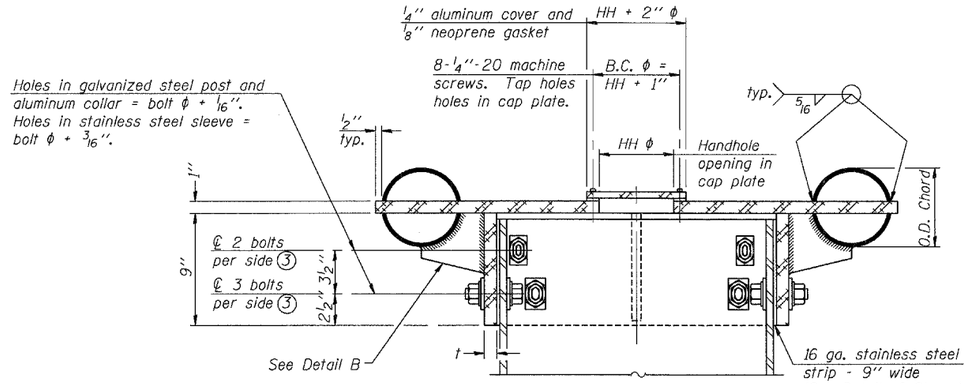
TOP CHORD TO CROSS TUBE U-BOLT DETAIL

(Typical)

OSF-A-D 1-20-11

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JLR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE	BUTTERFLY SIGN STRUCTURE DAMPING DEVICE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JLR	REVISED -						998	82-2-1K	ST. CLAIR	353	221
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			CONTRACT NO. 76E06		
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

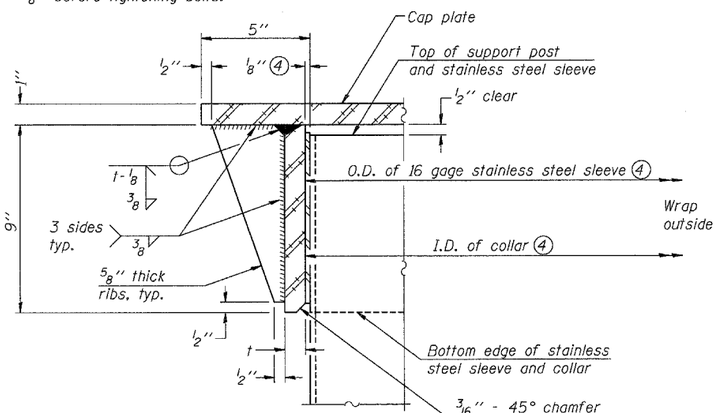
\\DBCONN-11-BORDER1.DGN, \\DBCONN-11-DESIGND.DGN
10-19-2011, 15:26:18 BONDHUJO \\FS-0044\APVAULT\D-TRANS_07\2202\28868-001\STRUCT\CADD\01 DESIGN\SIGNSTRUCTURE\SHEET\DBCONN-11-SHT-SIGNSD.DGN



SECTION B-B

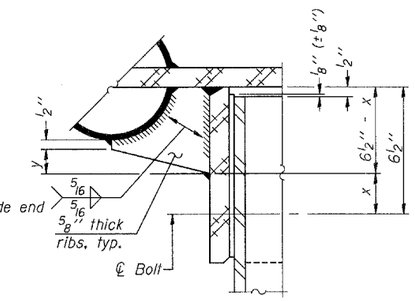
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

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



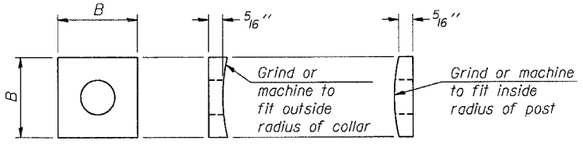
DETAIL A

(Two locations)



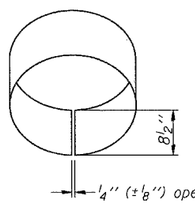
DETAIL B

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



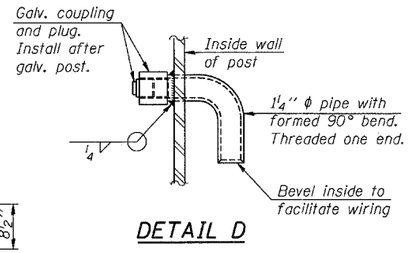
CONTOURED WASHERS

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

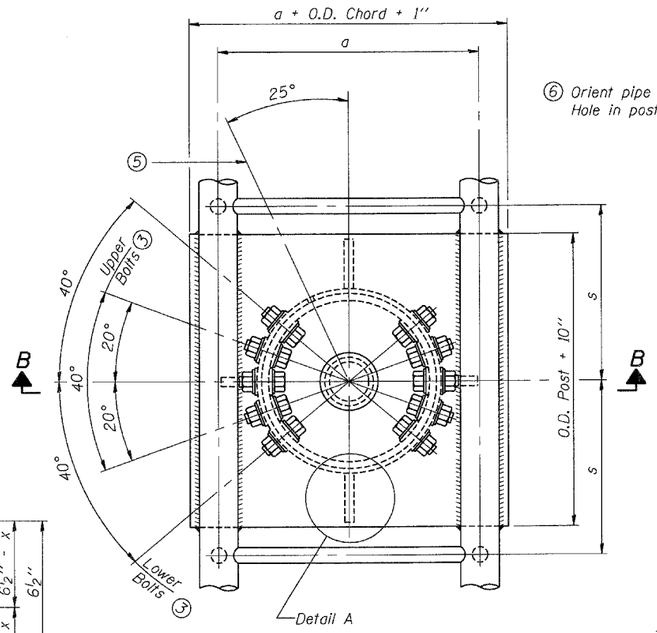


DETAIL OF STAINLESS STEEL SLEEVE

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



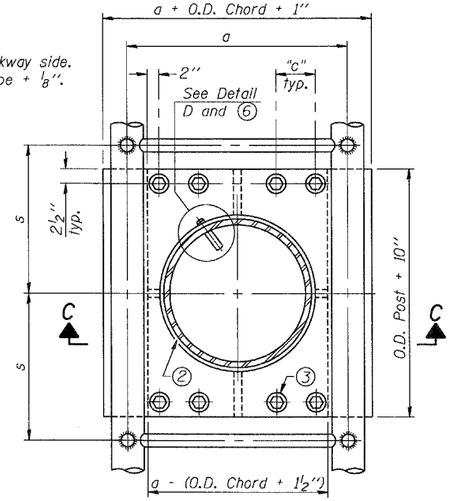
DETAIL D



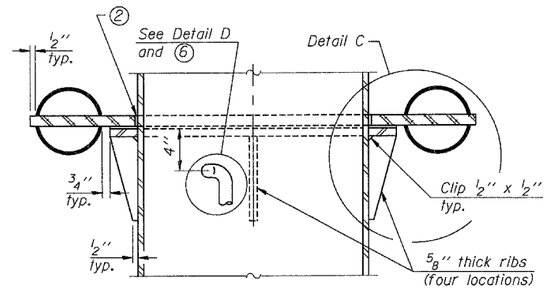
PLAN VIEW - TOP OF COLUMN

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

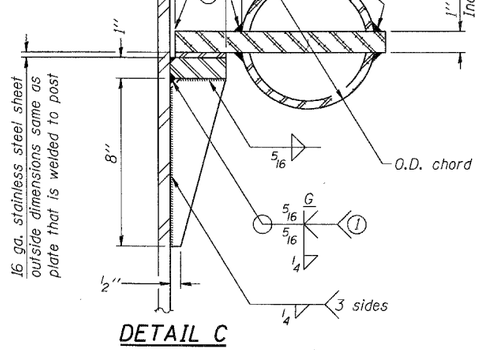
(6) Orient pipe toward walkway side. Hole in post = O.D. pipe + 1/8".



SECTION THRU POST ABOVE LOWER CHORDS



SECTION C-C



DETAIL C

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

(3) Upper and lower connection bolts in collar and bolts at lower chord connection must be high strength with matching locknuts. Connection bolts shall have two stainless steel flat washers each.

(1) Grind top if required to fully seat aluminum plate and stainless steel sheet.

(2) After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Butterfly.

OSF-A-3 1-20-11

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

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

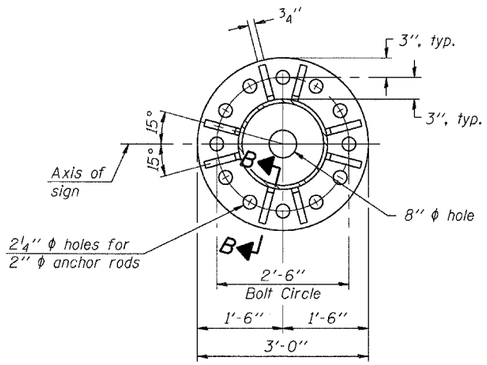
DESIGNED -	JLR	REVISED -
DRAWN -	JLR	REVISED -
CHECKED -	MDJ	REVISED -
DATE -	10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

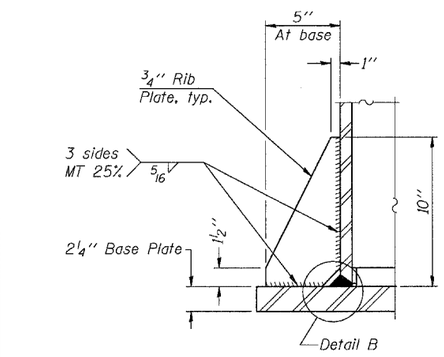
BUTTERFLY SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

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

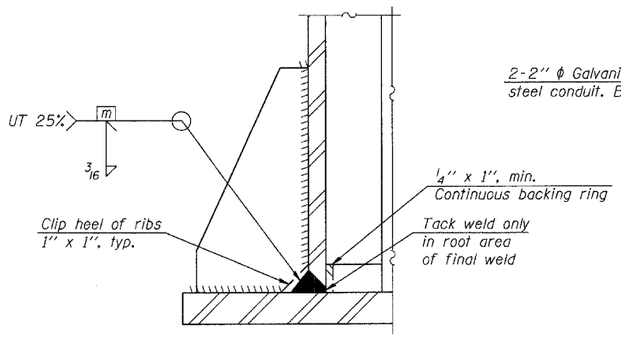
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	222
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A

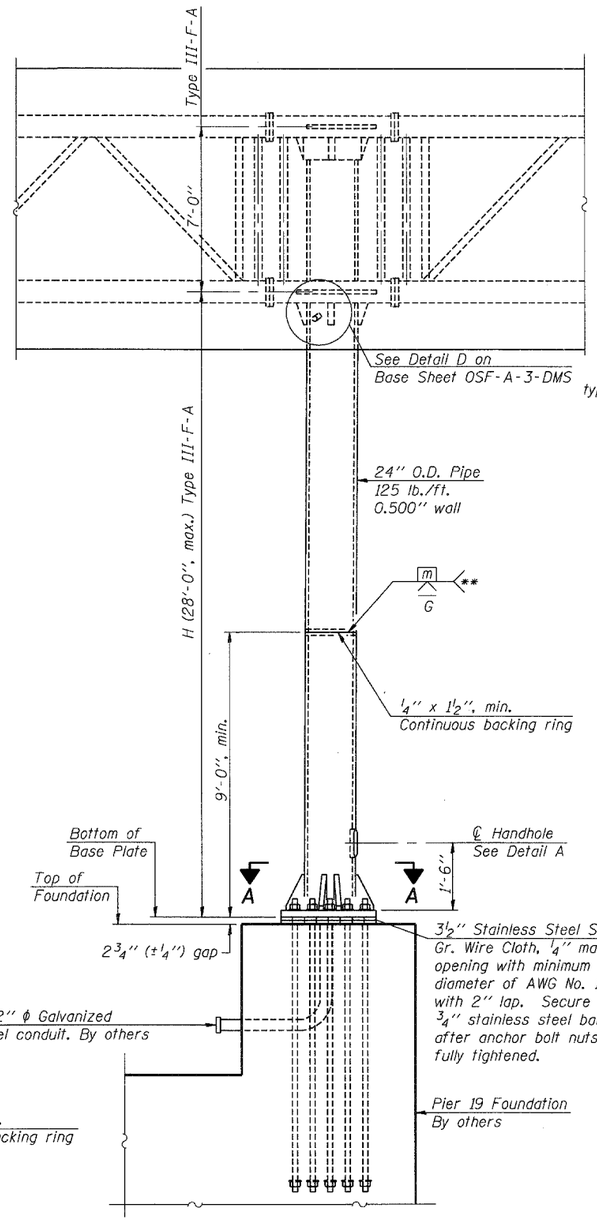


SECTION B-B

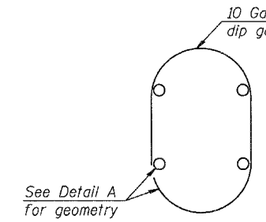


DETAIL B

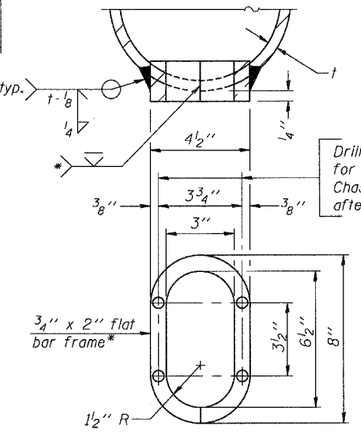
(Typical rib)



FRONT ELEVATION



HANDHOLE COVER

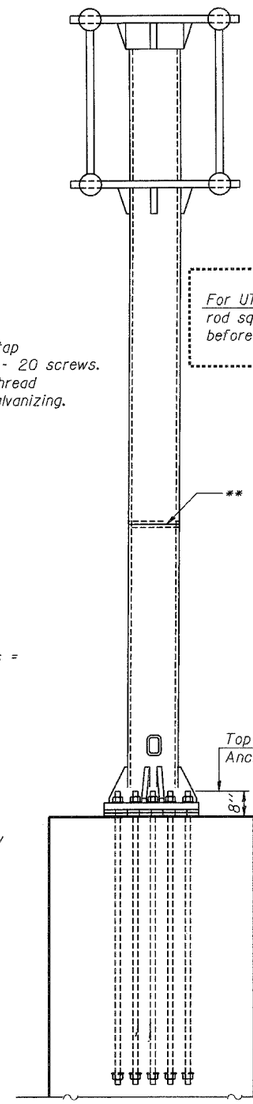


Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

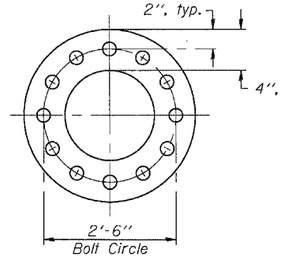
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. 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 m/in or less.

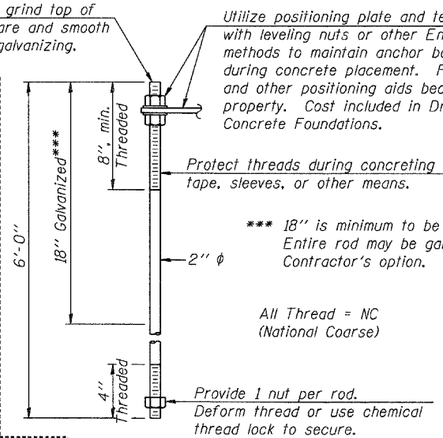
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

ANCHOR RODS BY OTHERS

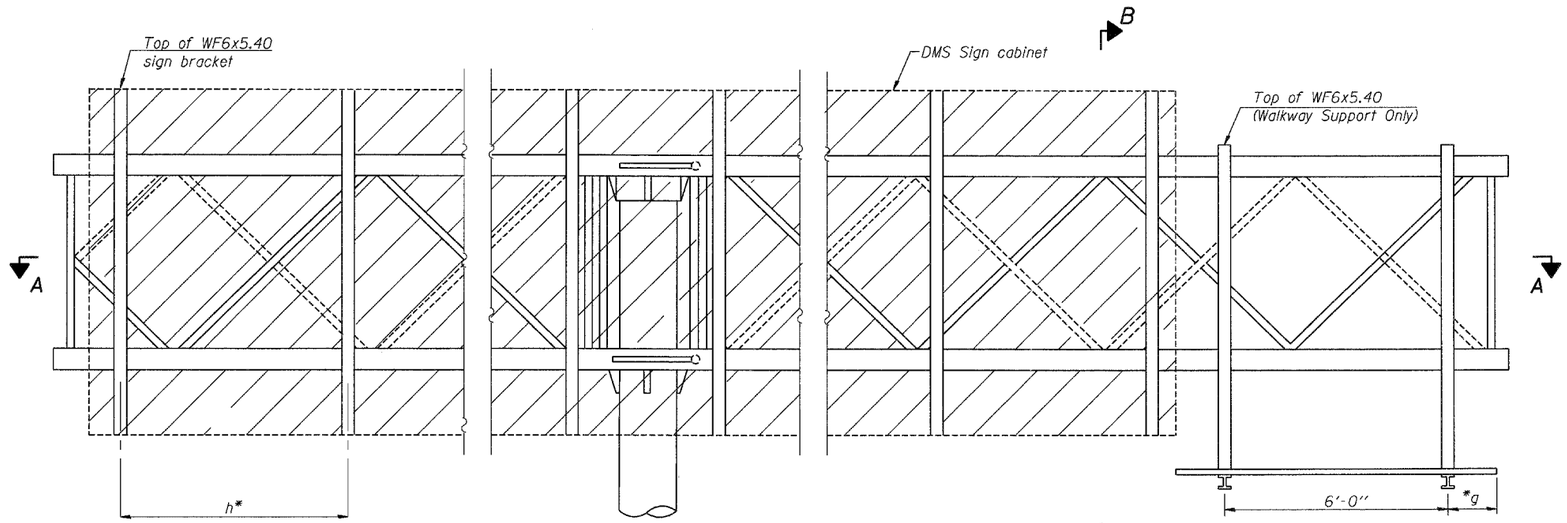
Structure Number	Station	H
8F0821070R000.9	116+90	25'-9"

Note: "H" based on actual sign height.

OSF-A-5-DMS-SPECIAL

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JLR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - JLR	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -	BUTTERFLY SIGN STRUCTURES – TYPE II-F-A TRUSS SUPPORT POST FOR DMS ALUMNINUM TRUSS & STEEL POST
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.

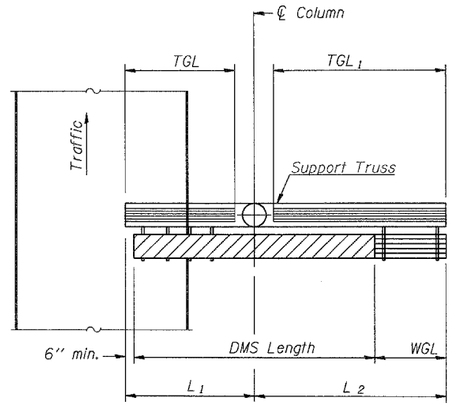
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	223
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.

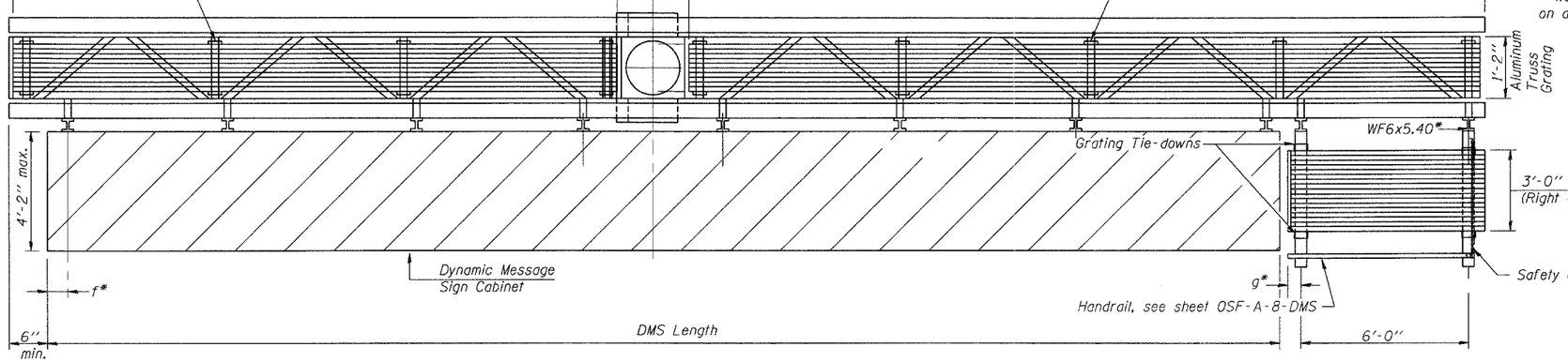
TYPICAL FRONT ELEVATION

With handrail omitted for clarity.
For section B-B see base sheet OSF-A-7-DMS



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)
Butterfly may be located in shoulder area.
Walkway may be located at right or left end of truss.



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.

** Grating splices and handrail joints placed as needed. Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in Butterfly Sign Structure.

$$TGL = L_1 \text{ (or } L_2\text{)} - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

Notes:
Space walkway brackets and sign brackets WF6x5.40 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF6x5.40

Maximun DMS weight = 5000 lbs.
4'-2" maximun cabinet depth includes depth of cabinet plus connection to WF6x5.40
For Section B-B and Grating Splice Details, see Base Sheet OSF-A-7-DMS.
For Handrail Splice Details, see Base Sheet OSF-A-8-DMS.
Walkway and truss grating width dimensions are nominal and may vary ±½" based on available standard width.

BRACKET TABLE

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

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

Structure Number	Station	DMS Length	TGL	TGL 1	Walkway Location (Right or Left end of Truss)
8F082I070R000.9	116+90	30'-8"	13'-3"	19'-5"	Left

OSF-A-6-DMS 1-20-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JLR	REVISED -
		DRAWN - JLR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

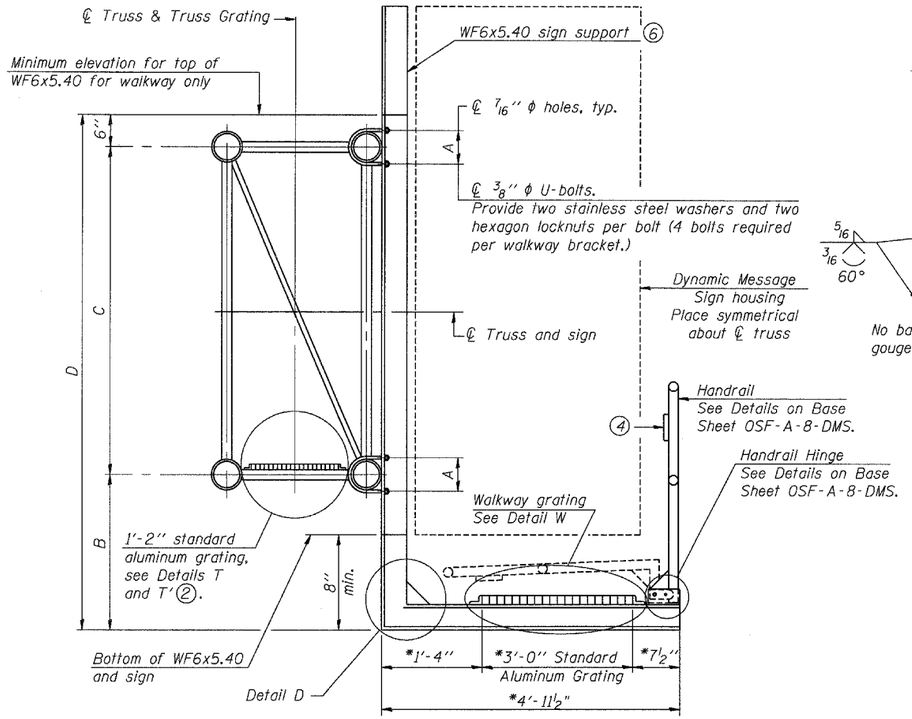
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

BUTTERFLY SIGN STRUCTURES – ALTERNATE
ALUMINUM WALKWAY DETAILS FOR DMS

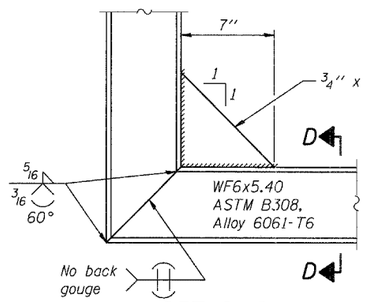
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	224
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

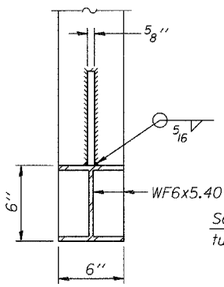
..\DGCONN-11-BORDER.DGN ..\DGCONN-11-DESIGN.DGN
10-19-2011, 15:26:25 BDNGHUJD \\FS-0044\VOL1\VAULT.JD TRANS.07\2282\20868-00\STRUCTV\CADD\BI DESIGN\SIGNSTRUCTURE SHEET\DGCONN-11-SHT-SIGNS.DGN



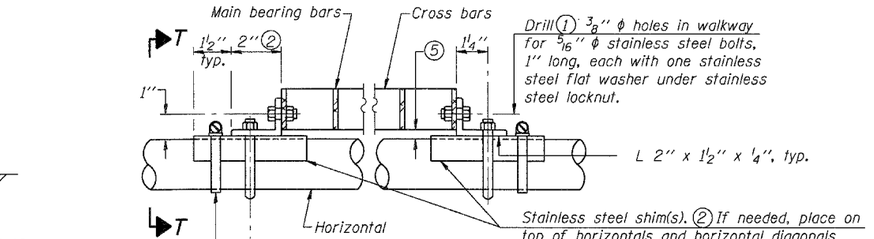
SECTION B-B



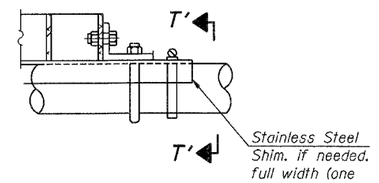
DETAIL D



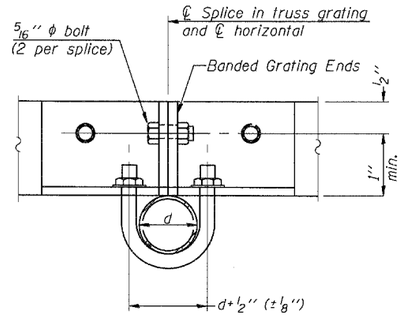
SECTION D-D



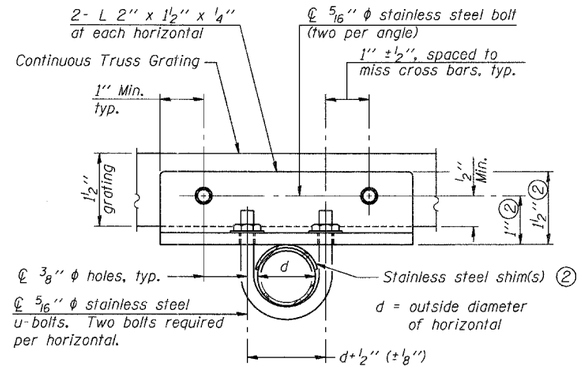
DETAIL T
(Continuous Truss grating)



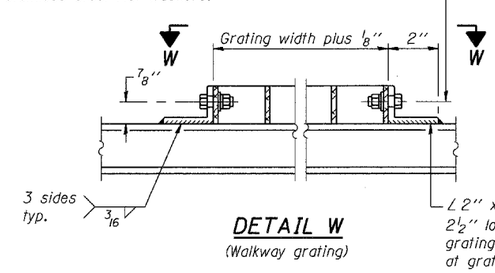
DETAIL T'
(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.



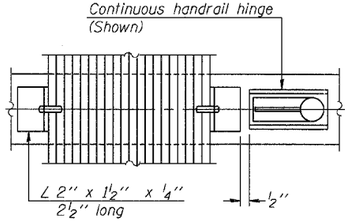
SECTION T'-T'



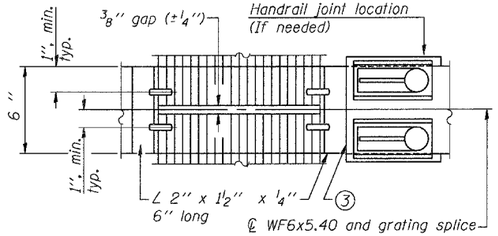
SECTION T-T



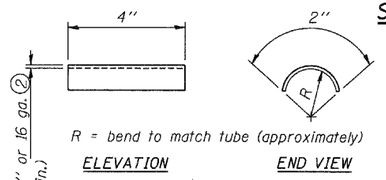
DETAIL W
(Walkway grating)



(CONTINUOUS WALKWAY GRATING)



(AT WALKWAY GRATING SPLICE)



SHIM DETAIL

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

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

OR

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

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

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

* Bracket and grading dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturers mounting device.

SECTION W-W

Structure Number	Station	A	(7) B	C	(7) D
8F082I070R000.9	116+90	7 1/2"	1'-8"	7'-0"	9'-2"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSF-A-8)

(4) ℄ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

(5) Tube to grating gap may very from 0 to 1/2" max. to align walkway, allow for camber, etc.

(6) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

(7) Based on actual sign height, Ds, given on OSF-A-1-DMS.

OSF-A-7-DMS 1-20-11

..\DGCONN-11-BORDER.DGN ..\DGCONN-11-DESIGN.DGN
10-19-2011, 15:26:28 BONDHUJD \\FS-8014\VM\VAULT\D-TRANS.07\2202\20868-001\STRUCTURE\CADD\DESIGN\SIGNSTRUCTURE\SHEET\DGCONN-11-SHT-SIGNSH.DGN

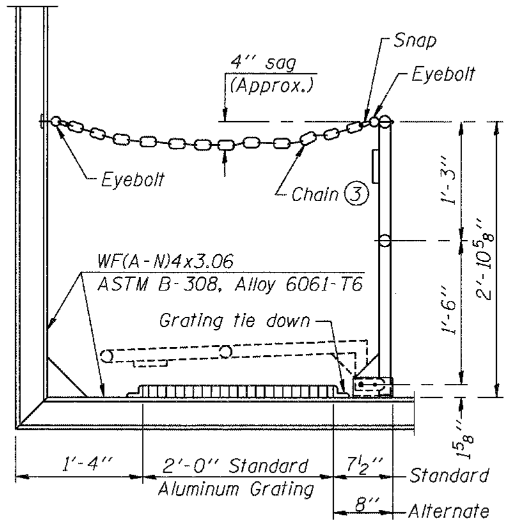
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JLR	REVISED -
		DRAWN - JLR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -
TENG ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

BUTTERFLY SIGN STRUCTURES – ALTERNATE WALKWAY
DETAILS FOR DMS – ALUMINUM TRUSS & STEEL POST

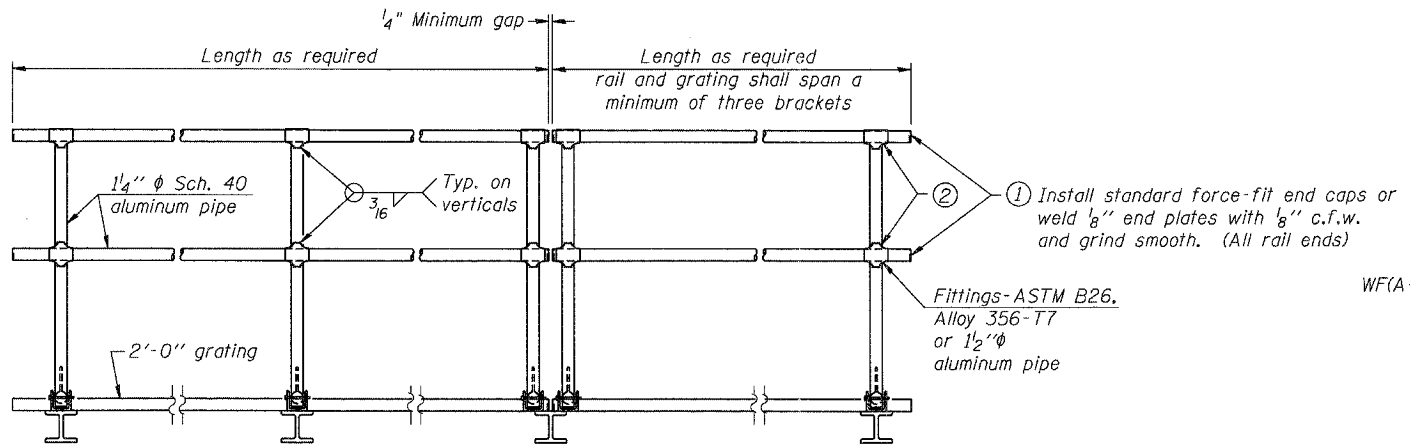
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	225
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SIDE ELEVATION

(Showing Safety Chain W/O Sign)

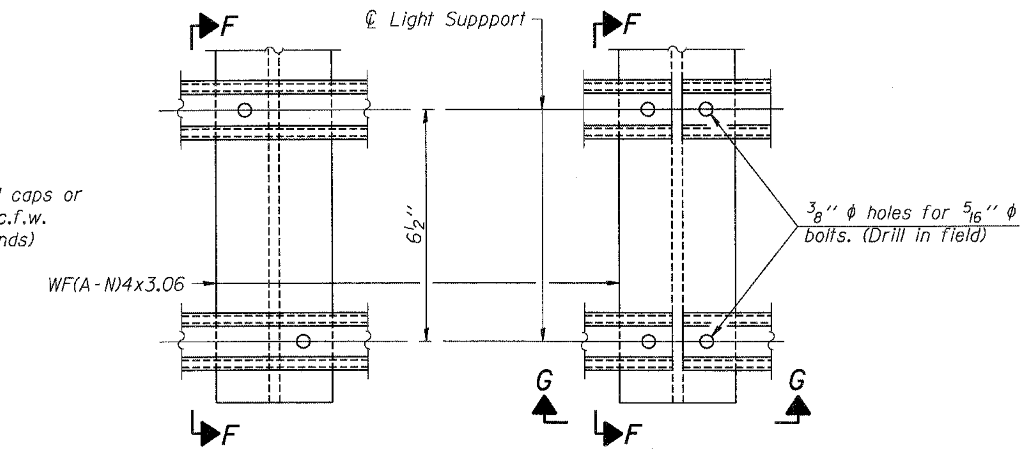


FRONT ELEVATION

HANDRAIL DETAILS

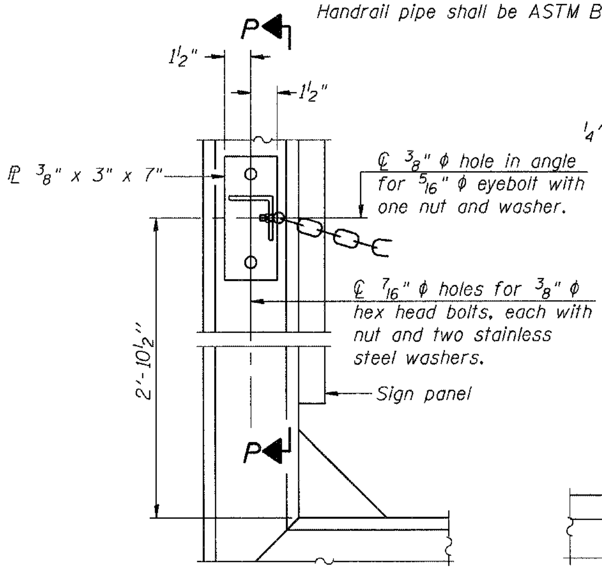
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for 3/8" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)



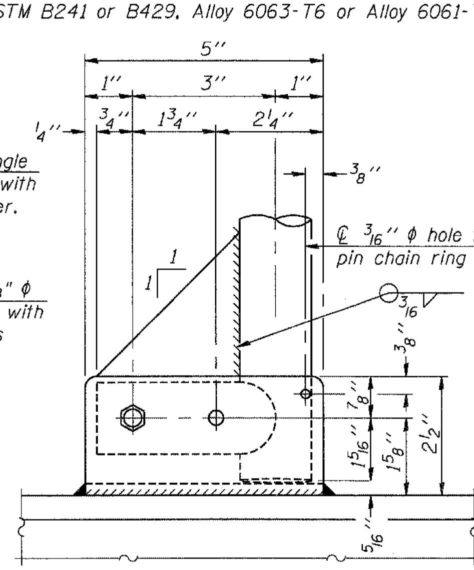
DETAIL F

DETAIL G

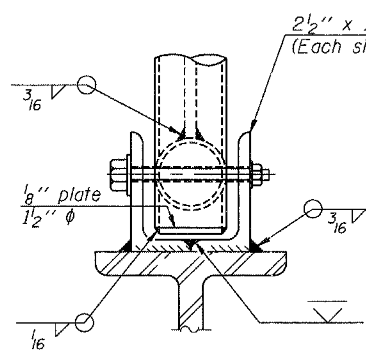


ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"

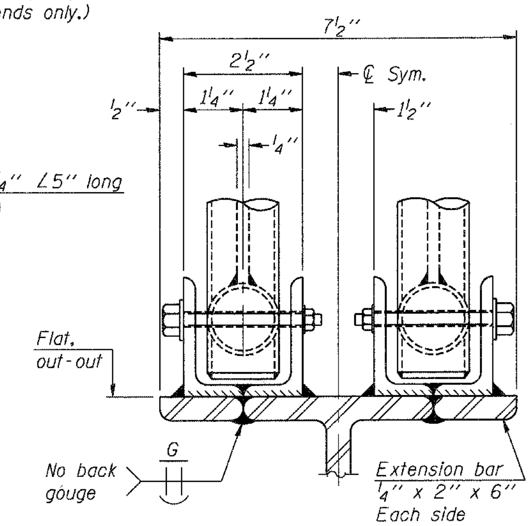


SIDE ELEVATION



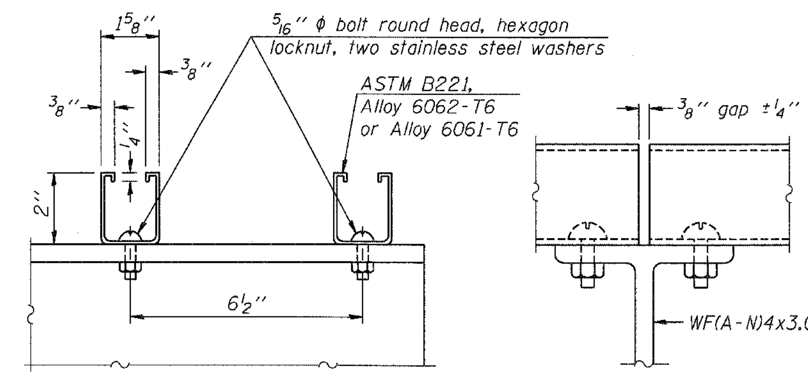
FRONT ELEVATION

Details not shown same as "ELEVATION" at right.



ELEVATION AT HANDRAIL JOINT (4)

Details not shown same as "FRONT ELEVATION"

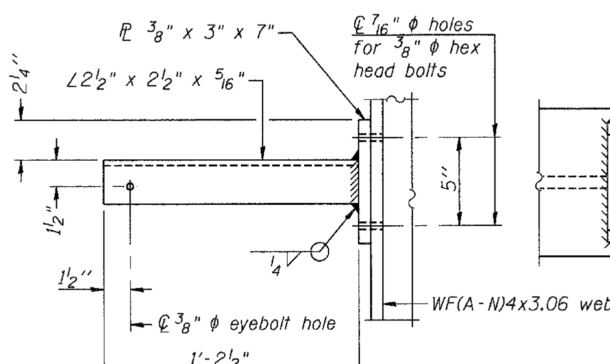


SECTION F-F

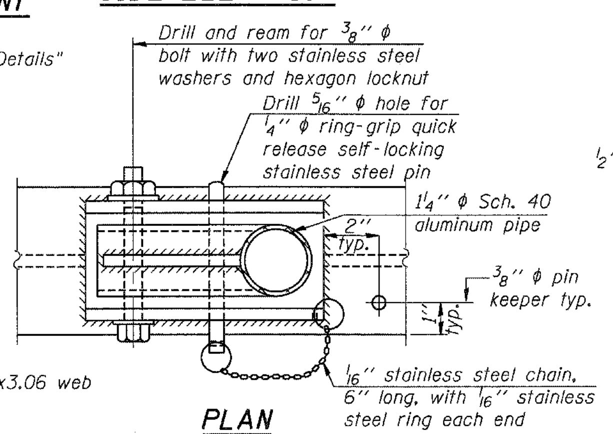
SECTION G-G

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.

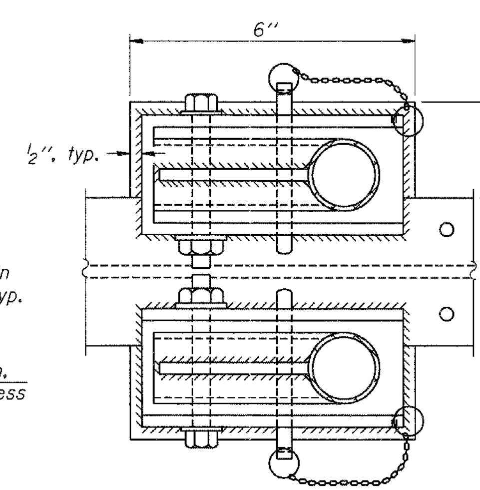


SECTION P-P



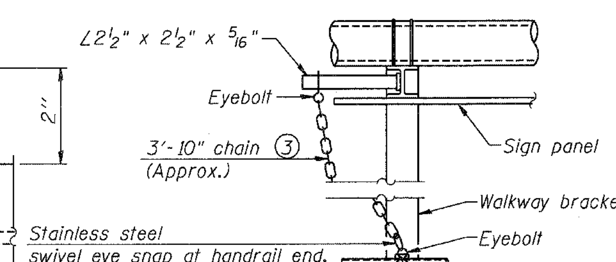
PLAN

DETAIL E HANDRAIL HINGE



PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"

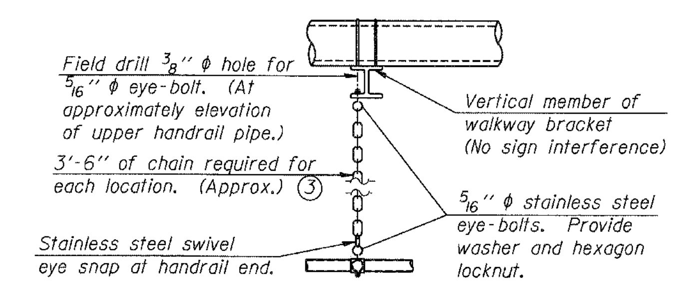


ALTERNATE SAFETY CHAIN ATTACHMENT

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.

OSF-A-8 1-20-11

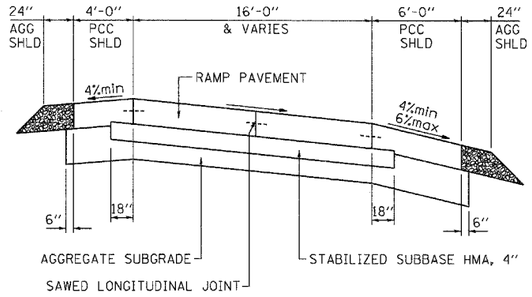
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JLR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - JLR	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
	PLOT SCALE = $SCALE$	CHECKED - MDJ	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

BUTTERFLY SIGN STRUCTURES – HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	226
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

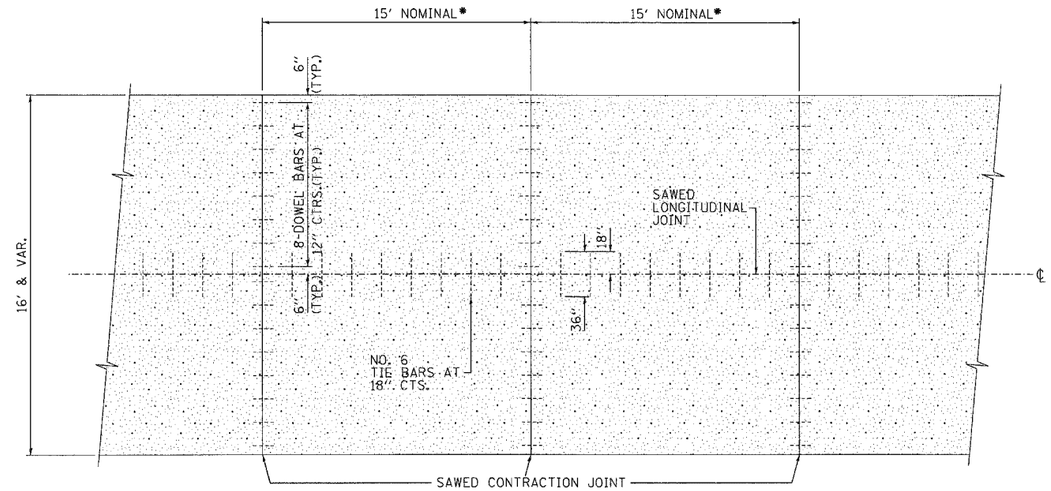
..\D8CONN-11-BORDER1.DGN, ..\D8CONN-11-DESIGND.DGN
10-19-2011, 15:26:32 BONDHUJD \\FS-0044\AM\VAULT,D-TRANS_07\2202\20868-001\STRUCT\CAD\01 DESIGN\SIGNSTRUCTURE\SHEET\D8CONN-11-SHT-SIGNS1.DGN



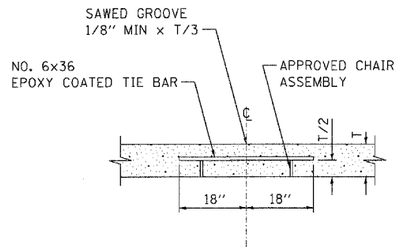
SECTION

NOTES:
1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) LANES AT 12' EACH.
2. ALL BARS TO BE EPOXY COATED.

* THE 15' DIMENSION SHALL BE ADJUSTED TO 12' MIN. TO 18' MAX. WHEN PLACED ADJACENT TO EXISTING PCC PAVEMENT STRUCTURE SO THAT JOINTS ARE IN PROLONGATION.



PLAN



SAWED LONGITUDINAL JOINT

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - JFS	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

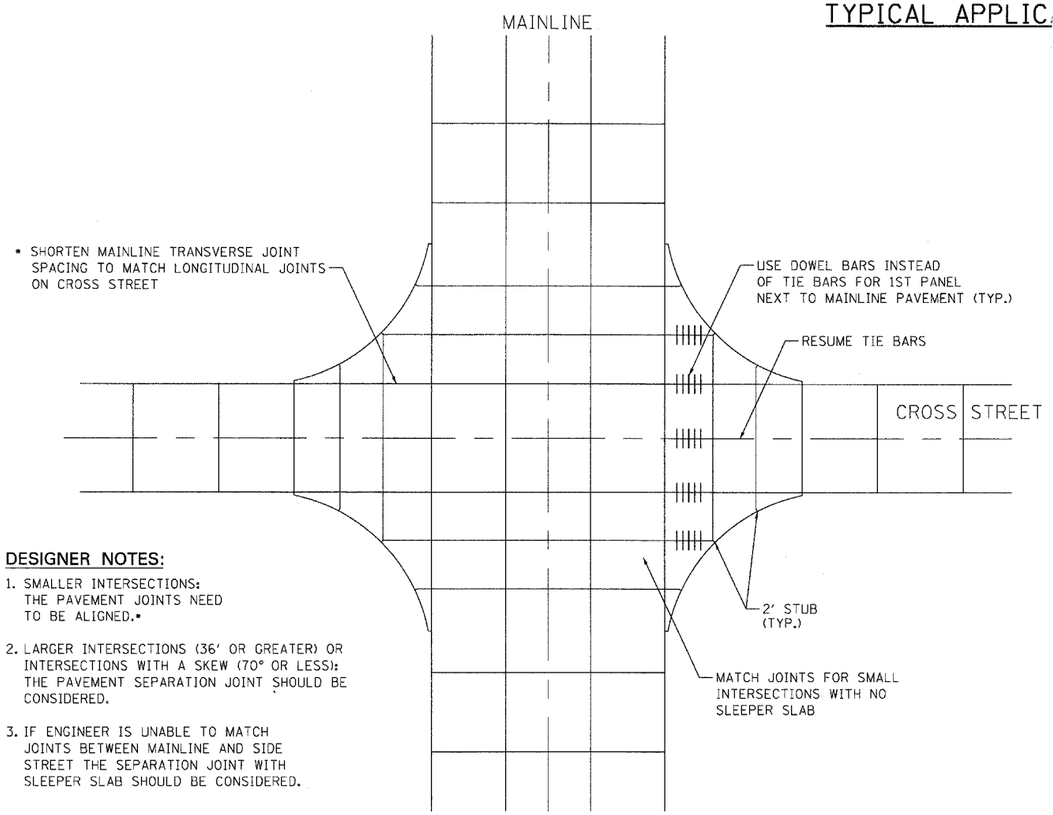
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

DETAIL FOR CENTERLINE SAW CUT 16' & VARIABLE JOINTED PCC PAVEMENT FOR RAMPS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	227
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

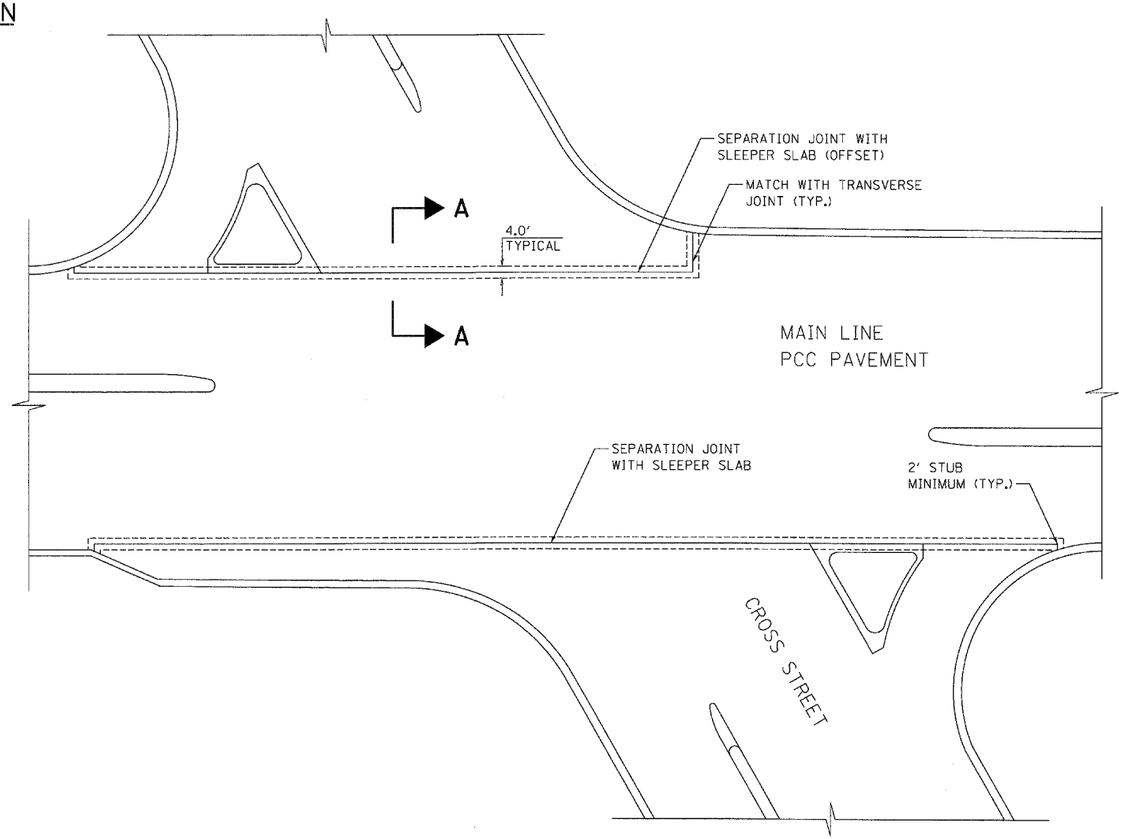
TYPICAL APPLICATION

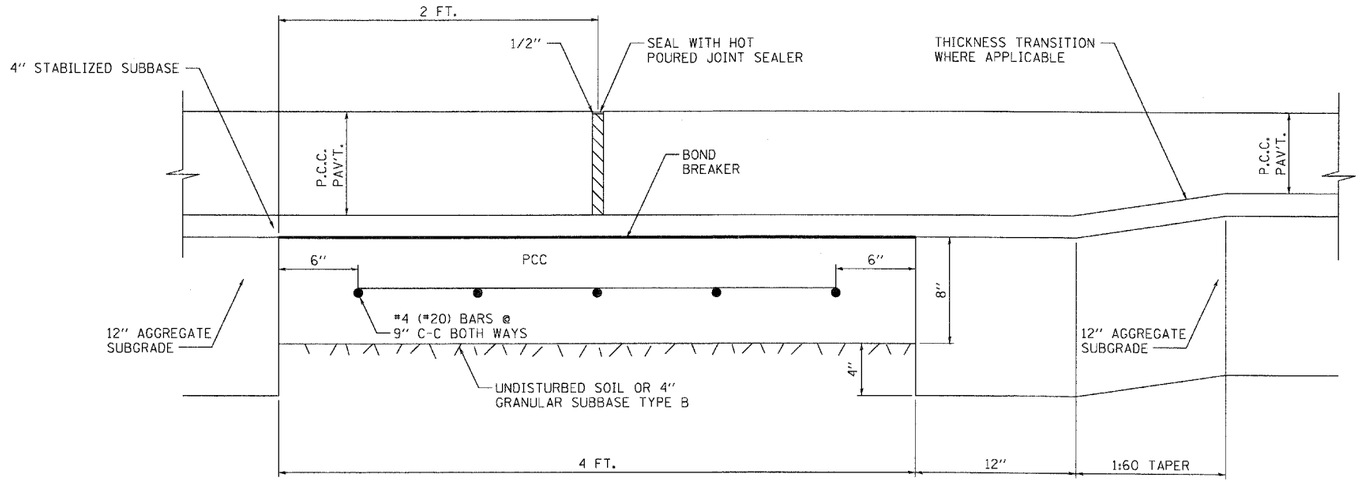


DESIGNER NOTES:

1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED.•
2. LARGER INTERSECTIONS (36' OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS): THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE SEPARATION JOINT WITH SLEEPER SLAB SHOULD BE CONSIDERED.

PLAN





PROPOSED SECTION A-A

NOTES:

(1) JOINT FILLER SHALL CONSIST OF A SHEET OF 1/2" BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 1051.03 OF THE STANDARD SPECIFICATIONS.

(2) THE JOINT SHALL BE SEALED WITH A HOT POURED JOINT SEALER CONFORMING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.

(3) A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.

(4) JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.

(5) TO BE PAID FOR AS "SEPARATION JOINT WITH SLEEPER SLAB" AND IS TO BE MEASURED IN PLACE BY THE LINEAL FOOT.

(6) BOND BREAKER AND 1/2" JOINT AND FILLER SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "SEPARATION JOINT WITH SLEEPER SLAB".

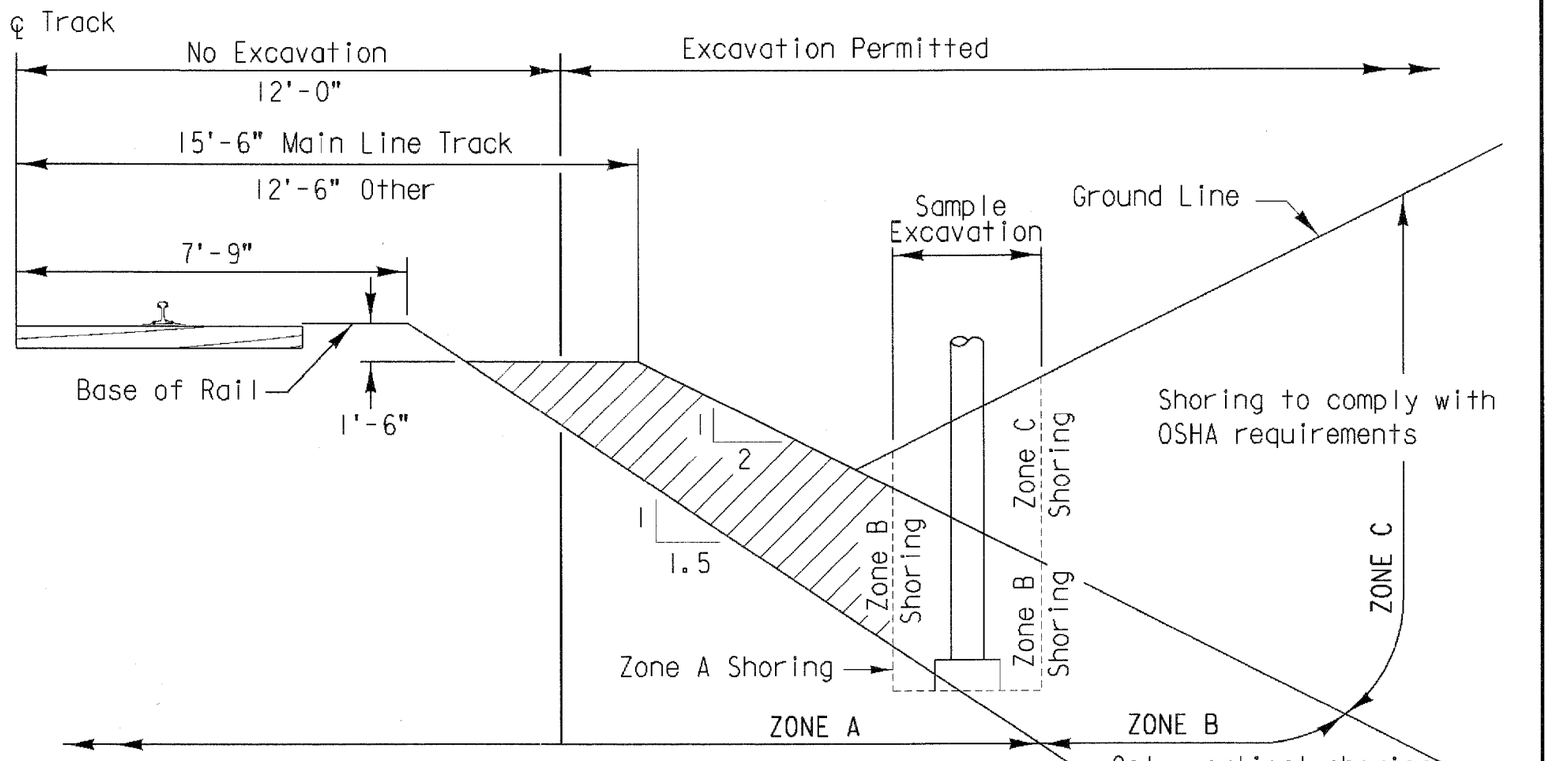
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - JFS	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

DETAIL OF PAVEMENT SEPARATION JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	228
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Shoring must be designed for Railroad live load surcharge in addition to OSHA Standard loads for excavation in Zone A.
APPLICABLE RAILROAD LIVE LOAD: COOPER E80

GENERAL NOTES:

All dimensions are measured perpendicular to ℄ of track.

Prior to commencing any work, the contractor shall submit for approval by the Railroad detailed plans indicating the nature and extent of the track protection shoring proposed. The contractor shall install the temporary shoring system per the approved plans. Design of the temporary shoring system to comply with **GUIDELINES FOR TEMPORARY SHORING.**

For excavations which encroach into zone A or B, shoring plans shall be accompanied by design calculations. Plans and calculations must be signed and stamped by a Professional Engineer registered in the state where the work will be performed.

GENERAL EXCAVATION ZONES

SCALE: (NOT TO SCALE)

REVISIONS		
DATE	LTR.	DESCRIPTION
5/03	1	FORMERLY UPRR C.E. 106613
/		
/		
/		
/		
/		

DESIGN BY: PGP | DRAWN BY: JFS | CHECKED BY: AA

APPROVED:

K.H. Jennison
BNSF - ASSISTANT DIRECTOR STRUCTURES DESIGN

George J. Mayer 9-1-04
UPRR - MGR SPECIAL PROJECTS STRUCTURES DESIGN

BRIDGE STANDARDS

GENERAL SHORING REQUIREMENTS

FILE OWNER: UPRR | DATE: 5-6-03
PLAN NO.: 710000 1 | SHEET 1 OF 1

PLOTTED: $$$$DATE$$$ $TIME

FOR INFORMATION ONLY

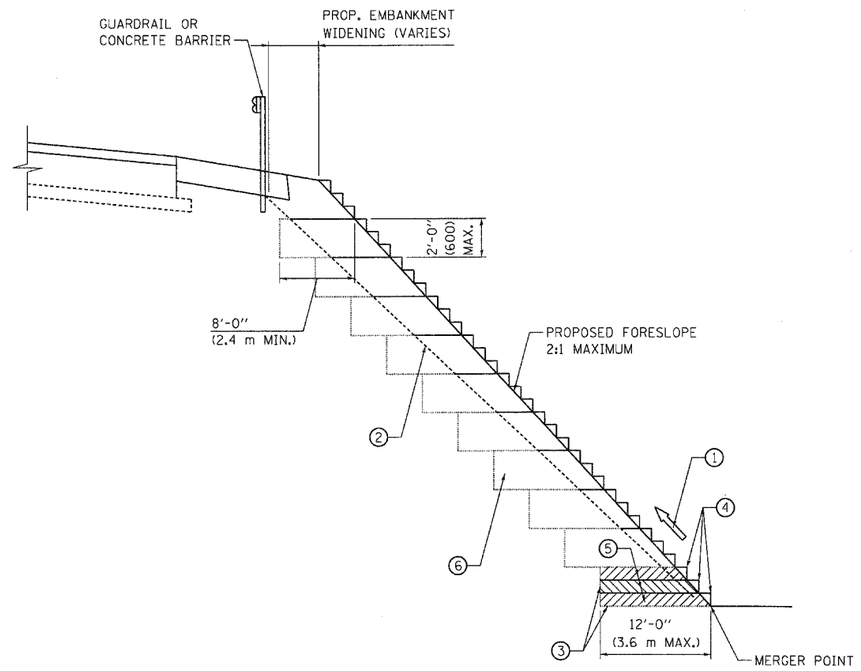
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - JFS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

GENERAL SHORING REQUIREMENTS ADJACENT TO RAILROAD

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	229
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
6. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5m).

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

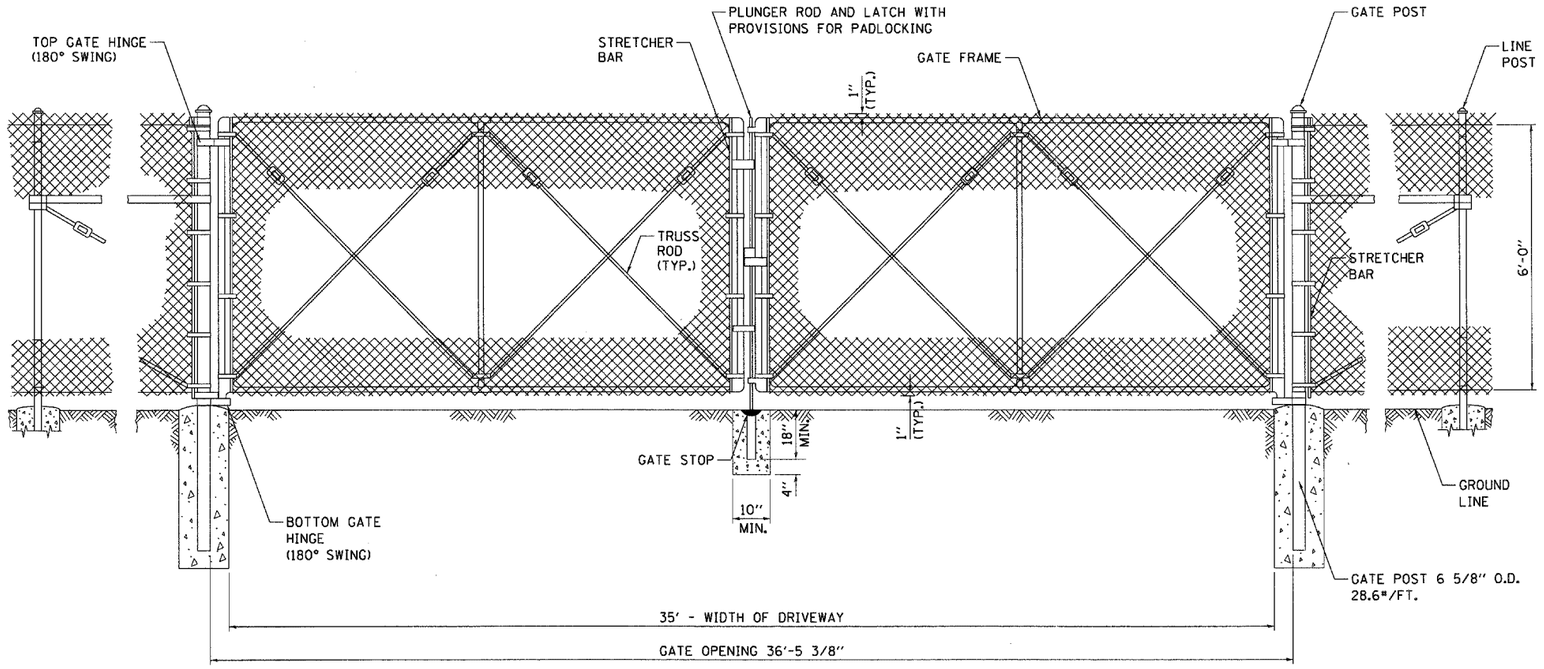
..\DBCONN-11-BORDER.DGN
10-19-2011, 15:26:58 BONDHUJO \\FS-0044\VAV\VAULT\D-TRANS.07\2202\20868-001\CIVIL\CAD\99 ALL CONTRACTS\CONN\SHEETS CONTRACT 11\DBCONN-11-SHT-PVTDET01L3.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -	**STATE OF ILLINOIS**
		DRAWN - JFS	REVISED -	**DEPARTMENT OF TRANSPORTATION**
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

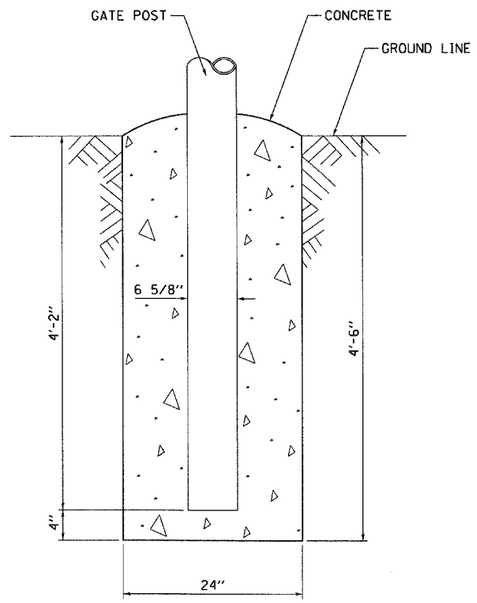
BENCHING DETAIL FOR EMBANKMENT WIDENING

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	230
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CHAIN LINK GATE (SPECIAL) DETAIL
POLARVILLE ENTRANCE, STA. 44+75.84 EXCHANGE AVE.



FOOTING FOR GATE

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - JB	REVISED -
		DRAWN - JFS	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = *SCALE*	CHECKED - ACL	REVISED -
	PLOT DATE = *DATE*	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

CHAIN LINK GATE (SPECIAL) DETAIL

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	231
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

DMS	DIGITAL MESSAGE SIGN
ATS	ATTACHED TO STRUCTURE
ITS	INTELLIGENT TRAFFIC SYSTEM
FO	FIBER OPTIC
PVC	POLYVINYL CHLORIDE
HDPE	HIGHT DENSITY POLYETHELYN
S.S.	STAINLESS STEEL
SM	SINGLE MODE
MM	MULTI MODE
PTZ	PAN TILT ZOOM
CCTV	CLOSED CIRCUT TELEVISION
VD	VEHICLE DETECTOR
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING CONTROLLER CABINET
	EXISTING SERVICE INSTALLATION
FO	EXISTING CONDUIT
	EXISTING JUNCTION BOX
	EXISTING SIGN TRUSS
	EXISTING HIGHWAY LIGHTING UNIT
	EXISTING UNDERGROUND LIGHTING CABLES
	PROPOSED HANDHOLE
	PROPOSED DOUBLE HANDHOLE
	PROPOSED CONTROLLER CABINET
FO	PROPOSED CONDUIT: "UNDRGRD" UNDERGROUND OR "AT ST" ATTACHED TO STRUCTURE, SIZE SPECIFIED
	PROPOSED SERVICE INSTALLATION
PTZ	PROPOSED CCTV CAMERA
J	PROPOSED JUNCTION BOX, SIZE SPECIFIED
P	PROPOSED PULL BOX, SIZE SPECIFIED
	PROPOSED LIGHT POLE, SIZE SPECIFIED
M	PROPOSED RADAR VEHICLE DETECTOR
	PROPOSED DMS SIGN
E-HH	EXISTING HANDHOLE
E-DHH	EXISTING DOUBLE HANDHOLE
E-JB	EXISTING JUNCITON BOX
E-PB	EXISTING PULL BOX
P-HH	PROPOSED HANDHOLE
P-DHH	PROPOSED DOUBLE HANDHOLE
P-JB	PROPOSED JUNCTION BOX
P-PB	PROPOSED PULL BOX

GENERAL NOTES

1. CCTV ARE LOCATION SENSITIVE. PROPOSED EQUIPMENT LOCATIONS ARE APPROXIMATE TO ENSURE THE OPTIMUM FIELD OF VIEW. ACTUAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR, PER THE MANUFACTURER REPRESENTATIVES' RECOMMENDATIONS AND THE ENGINEER'S APPROVAL. MR. JEFF ABEL OR MRS. LINDA LEONARD OF BUREAU OF OPERATIONS SHALL BE CONTACTED FOR ACTUAL CAMERA LOCATION VERIFICATION.
2. ALL MATERIALS SUPPLIED SHALL CONFORM TO SECTION 106 OF THE STANDARD SPECIFICATIONS FOR CONTROL OF MATERIALS.
3. THE CONTROLLER CABINETS AND JUNCTION BOXES SHALL BE UNPAINTED ALUMINUM SHEET METAL UNLESS OTHERWISE SPECIFIED ON THE PLANS.
4. UNDERGROUND CABLE MARKING TAPE SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLES 810.04A AND 1066.05 OF THE STANDARD SPECIFICATIONS.
5. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAMS, DECK, OR SUBSTRUCTURE OF THE BRIDGE. UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. ALL GROUND RODS SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH ARTICLE 1087.01 EXCEPT THAT THEY SHALL BE 3/4 " DIAMETER X 12'-0" LONG. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE VIA EXOTHERMIC WELD, COMPRESSION CLAMPS WILL NOT BE ALLOWED.
7. COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING SHALL BE DONE TO LOCATE HIGHWAY LIGHTING/PUMP STATION/ITS FACILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
8. BENDING RADIUS OF FIBER OPTIC CABLE SHALL EXCEED SIX (6) INCHES. PER MANUFACTURER'S STANDARD.
9. ALL HANDHOLES SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE PER SECTION 814 OF THE STANDARD SPECIFICATIONS. THE LEGEND ON THE COVER SHALL BE "ITS". SLOPE HANDHOLE TO MATCH FINAL GRADE ELEVATION.
10. ALL UTILITIES AND DRAINAGE STRUCTURES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS CCTV CAMERA SYTEMS AND VEHICLE DETECTION SYSTEMS. THE COST FOR LOCATING DRAINAGE STRUCTURES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCIDENTAL TO THE VARIOUS ITS EQUIPMENT.
11. A 9-1-1 ADDRESS MUST BE OBTAINED FROM THE ST. CLAIR COUNTY 9-1-1 COORDINATOR PRIOR TO OBTAINING ELECTRIC/ TELEPHONE SERVICE AT THE PROJECT LOCATIONS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER/TECHNICIAN A MINIMUM OF SIX WEEKS IN ADVANCE OF THE ANTICIPATED DATE THAT ELECTRIC/TELEPHONE SERVICE WILL BE REQUIRED IN ORDER THAT THE NECESSARY ADDRESS CAN BE OBTAINED. IF THERE ARE ANY QUESTIONS REGARDING THE ABOVE, CONTACT THE 9-1-1 COORDINATOR AT 618-277-7668, EXT.102 FOR ST. CLAIR COUNTY.
12. ALL FIBER BACKBONE CONDUIT SHALL BE PLACED A MINIMUM OF 5' FROM EDGE OF PAVEMENT OR AS INDICATED ON THE PLAN SHEETS OR PER FIELD ENGINEER'S RECOMMENDATION.
13. FIELD MEASUREMENTS ARE REQUIRED TO VERIFY DIMENSIONS OF EXISTING STRUCTURES PRIOR TO ORDERING MOUNTING HARDWARE.
14. FIBER OPTIC CABLE PULL TENSION WILL BE LIMITED BY PROVIDING JUNCTION BOXES OR HANDHOLES AT INTERVALS NO GREATER THAN 750 FEET.
15. A 1/4" DIA. NYLON ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS. THE COST OF PULL ROPE SHALL BE INCLUDED IN THE PROPOSED ELECTRIC CABLE INSTALLATION AND /OR FIBER OPTIC IN THAT CONDUIT.
16. PULL BOX TO BE PAID FOR WITH CORRESPONDING JUNCTION BOX PAY ITEM.

FIELD EQUIPMENT NUMBERING SYSTEM EXAMPLE : 006402.8W.12D	
0064	DESIGNATES HIGHWAY WHERE FIELD EQUIPMENT IS LOCATED.
0064**02.8**	DESIGNATES MILE MARKER WHERE FIELD EQUIPMENT IS LOCATED.
006402.8**W**	DESIGNATES DIRETION VIDEO DETECTOR IS MONITORING TRAFFIC OR DIRECTION TRAFFIC IS TRAVELLING TO RECEIVE DMS MESSAGE.
006402.8W.**12**	NUMBER ASSIGNED TO THAT FIELD EQUPIMENT
006402.8W.12**D**	A = ALL DIRECTIONS D = VEHICLE DETECTION C = CAMERA (P/T/Z SURVEILLANCE) H = HAR SIGNAGE WITH BEACON R = RADAR DETECTION

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
		DRAWN - ARM	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

GENERAL NOTES AND LEGEND FOR ITS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	232
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STA. 111+00 (BY OTHERS)

℄ PROPOSED I-70

TEMPORARY EASEMENT

PERMANENT EASEMENT

WB DYNAMIC MESSAGE SIGN (DMS) AT PIER 19
DMS STRUCTURE INSTALLED BY OTHERS

PIER 19

J 115+00

J 120+00

CONC

212091 S
E 2448830.380
N 1404703.185
Z 455.140

212091
Z 421.143

DMS JUNCTION BOX
P-JB-1

EX. 2" CONDUIT "ATS" BY OTHERS
EX. 72 COND S.M. F.O. CABLE BY OTHERS

EX. 2" CONDUIT "ATS" BY OTHERS - 1,088'
PR. FO CAB IC 62.5/125 6F
WITH ELCBL IC TRACER 14 1C
IN EXISTING CONDUIT

EB DYNAMIC MESSAGE SIGN (DMS)
AT PIER 19, STA. 116+90.42
007000.9E.09S
INSTALL DMS STRUCTURE ON PIER CAP
SEE SPECIAL PROVISIONS FOR DMS SPECIFICATIONS

SEE SIGN STRUCTURE PLANS
SHEETS 218 TO 226
FOR ADDITIONAL DETAILS

CONDUIT "ATS" AND FIBER PLACED BY OTHERS

CONDUIT "ATS" BY OTHERS
FIBER PLACED BY 76E06

TOWER

KANSAS CITY SOUTHERN RR

GATEWAY WESTERN RR

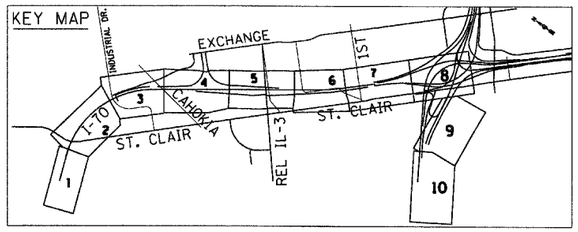
UNION PACIFIC RR

NORFOLK SOUTHERN RR

MATCH LINE STA. 125+00
SEE SHEET 234

N

KEY MAP



LEGEND

- PTZ — POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- M — RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- P — SERVICE INSTALLATION, TYPE A

ATS = ATTACHED TO STRUCTURE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

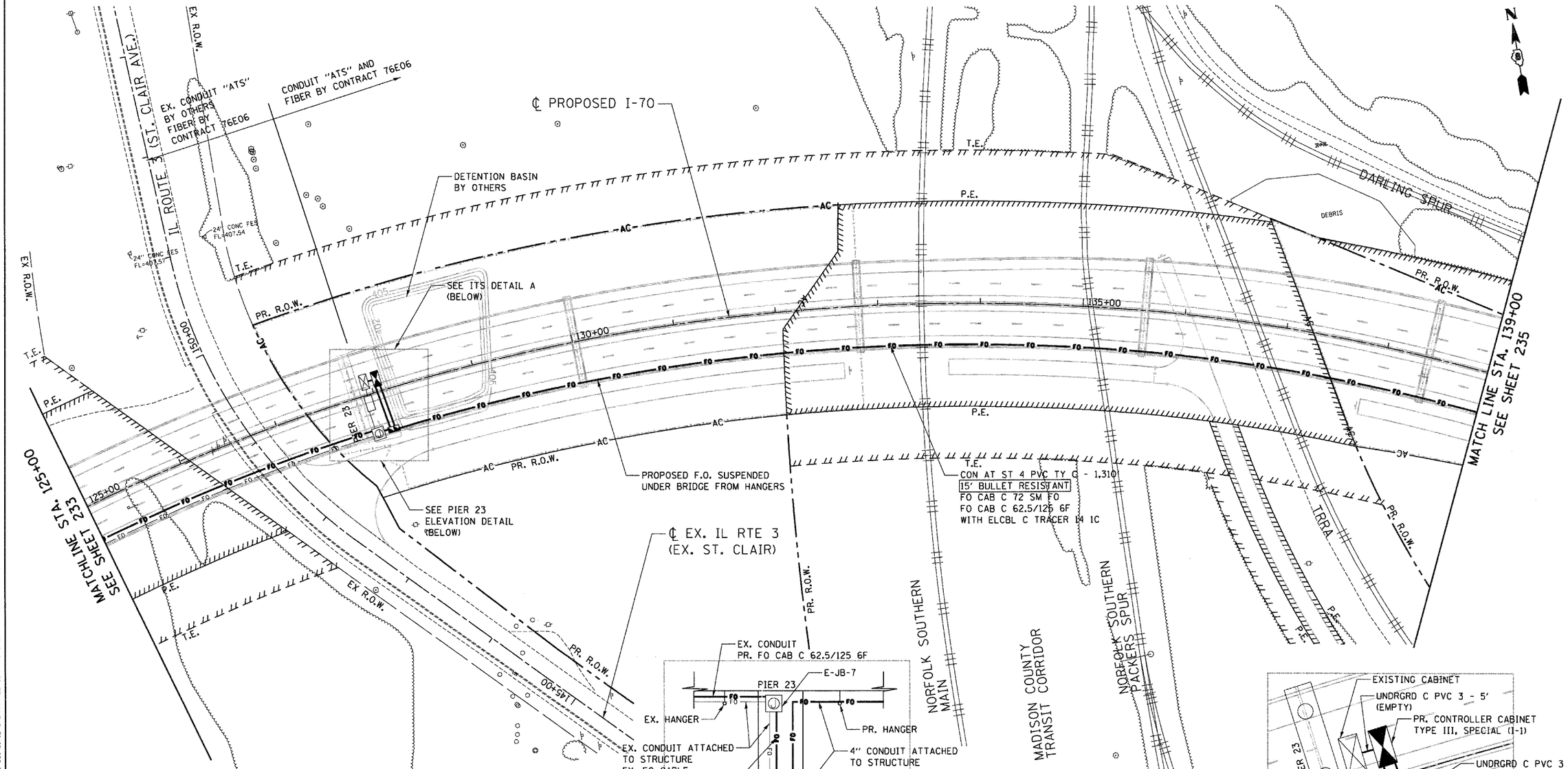
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

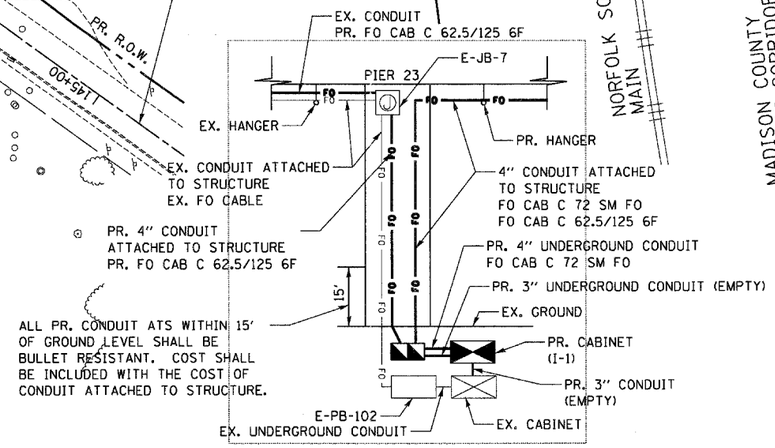
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
STA. 111+00 TO STA. 125+00

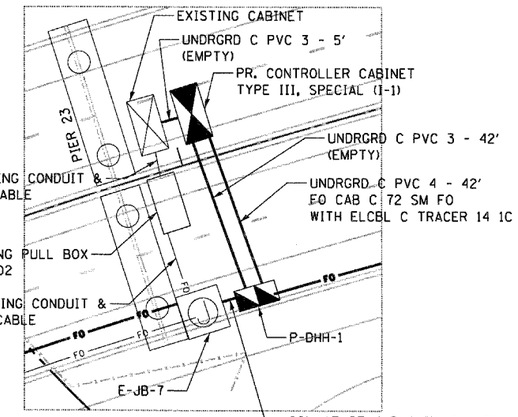
SCALE: 1"=50' | SHEET NO. 1 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	233
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





PIER 23 ELEVATION DETAIL



ITS DETAIL A

LEGEND

- PTZ — POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- M — RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- P — SERVICE INSTALLATION, TYPE A

ATS = ATTACHED TO STRUCTURE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

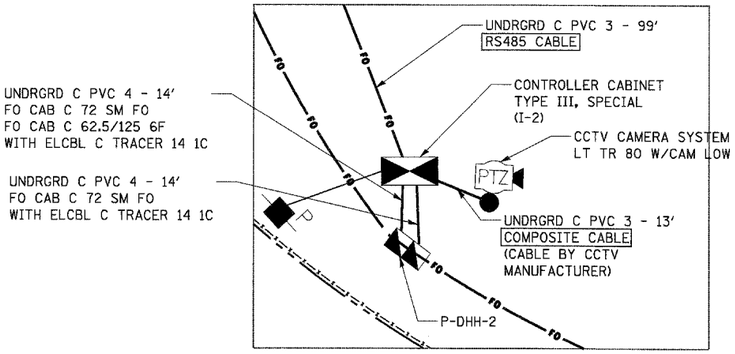
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
STA. 125+00 TO STA. 139+00

SCALE: 1"=50' | SHEET NO. 2 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	234
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ITS DETAIL B



LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A

ATS = ATTACHED TO STRUCTURE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

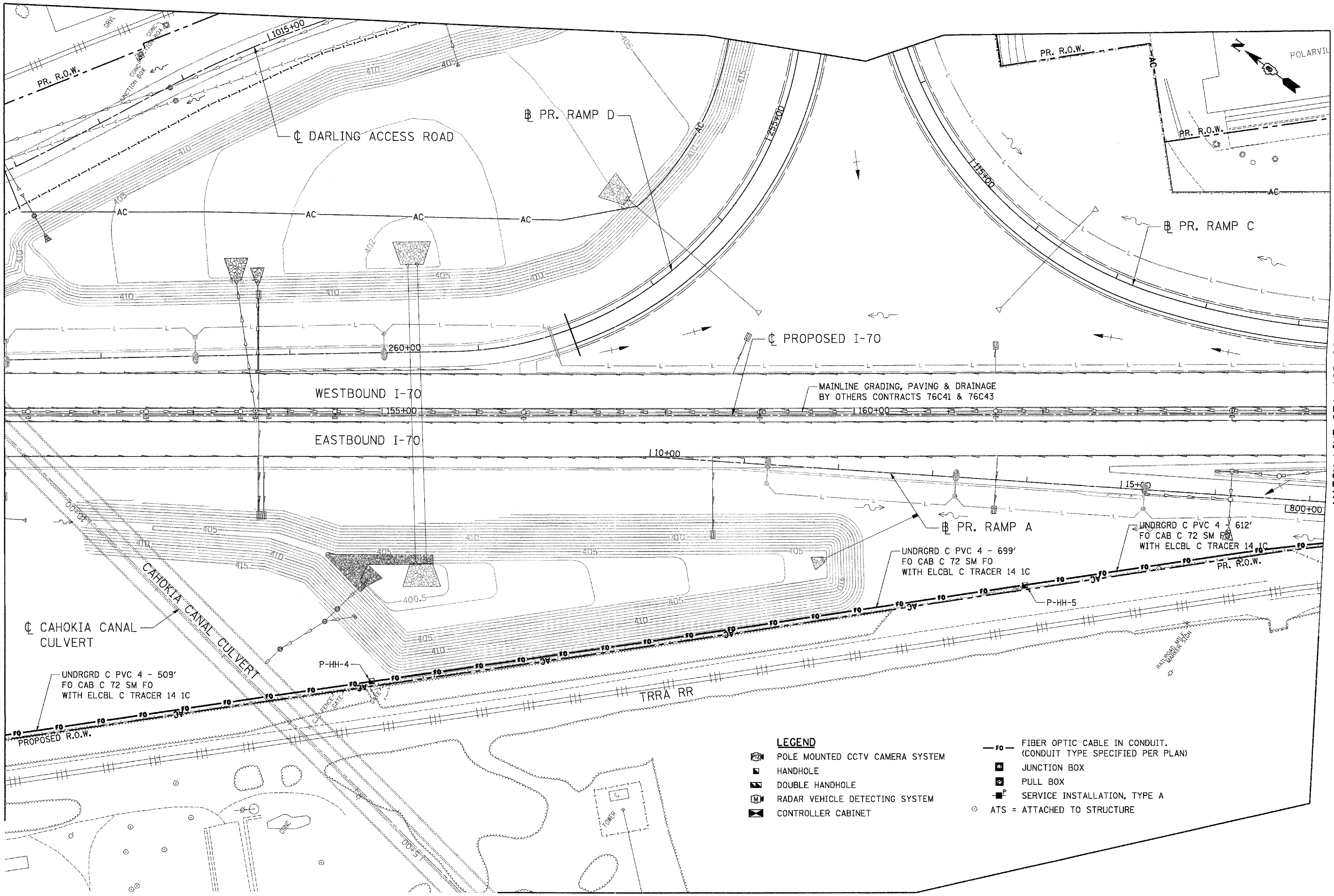
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
STA. 139+00 TO STA. 151+00

SCALE: 1"=50' | SHEET NO. 3 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	235
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA. 151+00
SEE SHEET 235



MATCH LINE STA. 165+00
SEE SHEET 237

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
TENG — TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

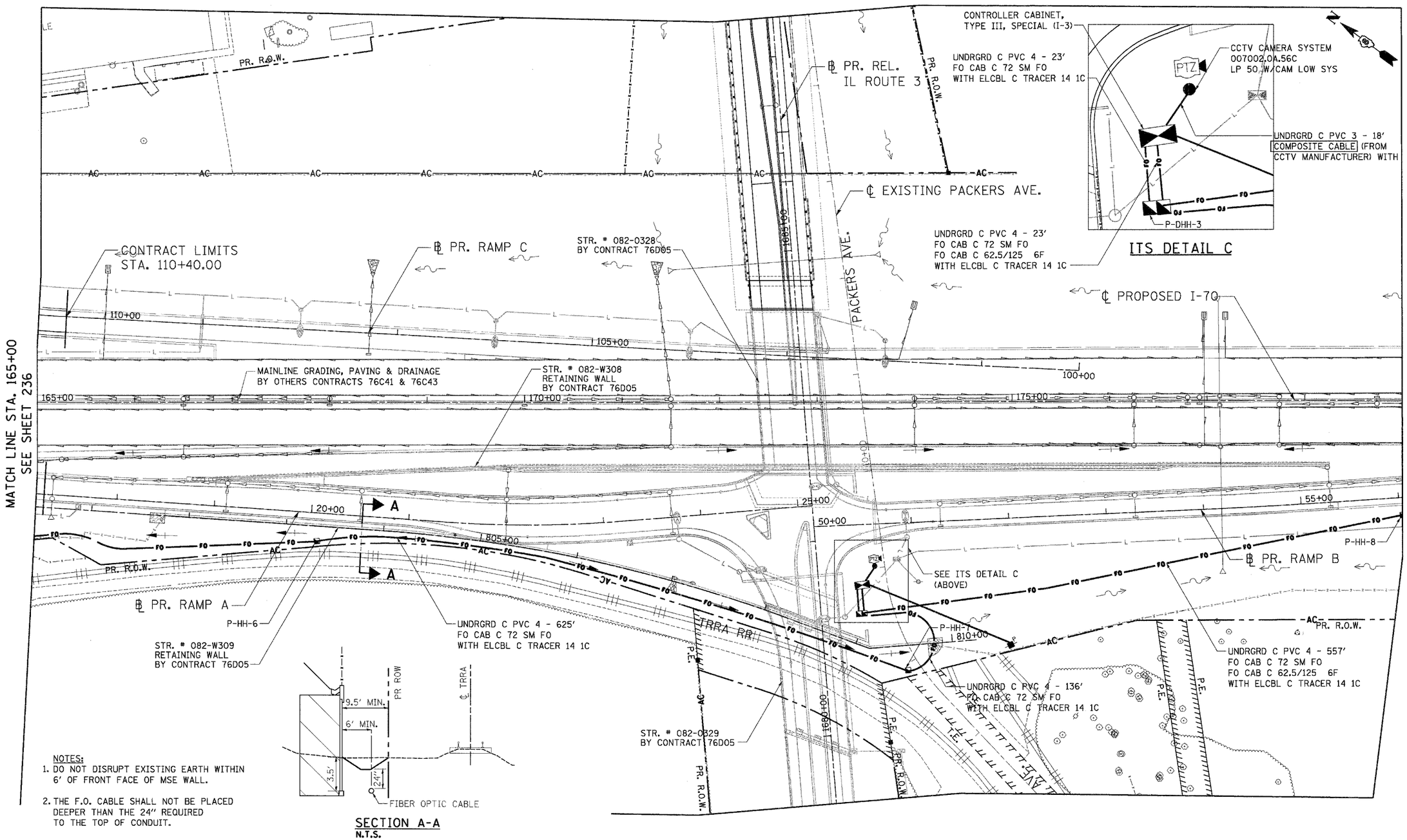
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
STA. 151+00 TO STA. 165+00

SCALE: 1"=50' | SHEET NO. 4 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	236
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

..\D8CONN-99-MOTIF1.DGN,..\D8CONN-11-BORDER1.DGN,..\D8CONN-11-MOTIF1.DGN,..\D8CONN-11-LEGEND1.DGN,..\D8CONN-11-LAYOUT1.DGN,..\D8CONN-05-MOTIF1.DGN,..\D8CONN-06-MOTIF1.DGN,..\D8CONN-08-MOTIF1.DGN,..\D8CONN-06-CONTOUR1.DGN,..\D8CONN-08-DRAIN6.DGN
12-16-2011, 14:08:38 BONDHUJD \\FS-0044\AM\VAULT,D-TRANS_07\2202\20868-001\CIVIL\CAD\99 ALL CONTRACTS\CONN\SHEETS CONTRACT 11\D8CONN-11-SHT-TSPLAN1-15100.DGN



SECTION A-A
N.T.S.

NOTES:
1. DO NOT DISRUPT EXISTING EARTH WITHIN 6' OF FRONT FACE OF MSE WALL.
2. THE F.O. CABLE SHALL NOT BE PLACED DEEPER THAN THE 24" REQUIRED TO THE TOP OF CONDUIT.

LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A
- ATS = ATTACHED TO STRUCTURE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - JB	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

PROPOSED I-70
ITS PLAN
STA. 165+00 TO STA. 179+00

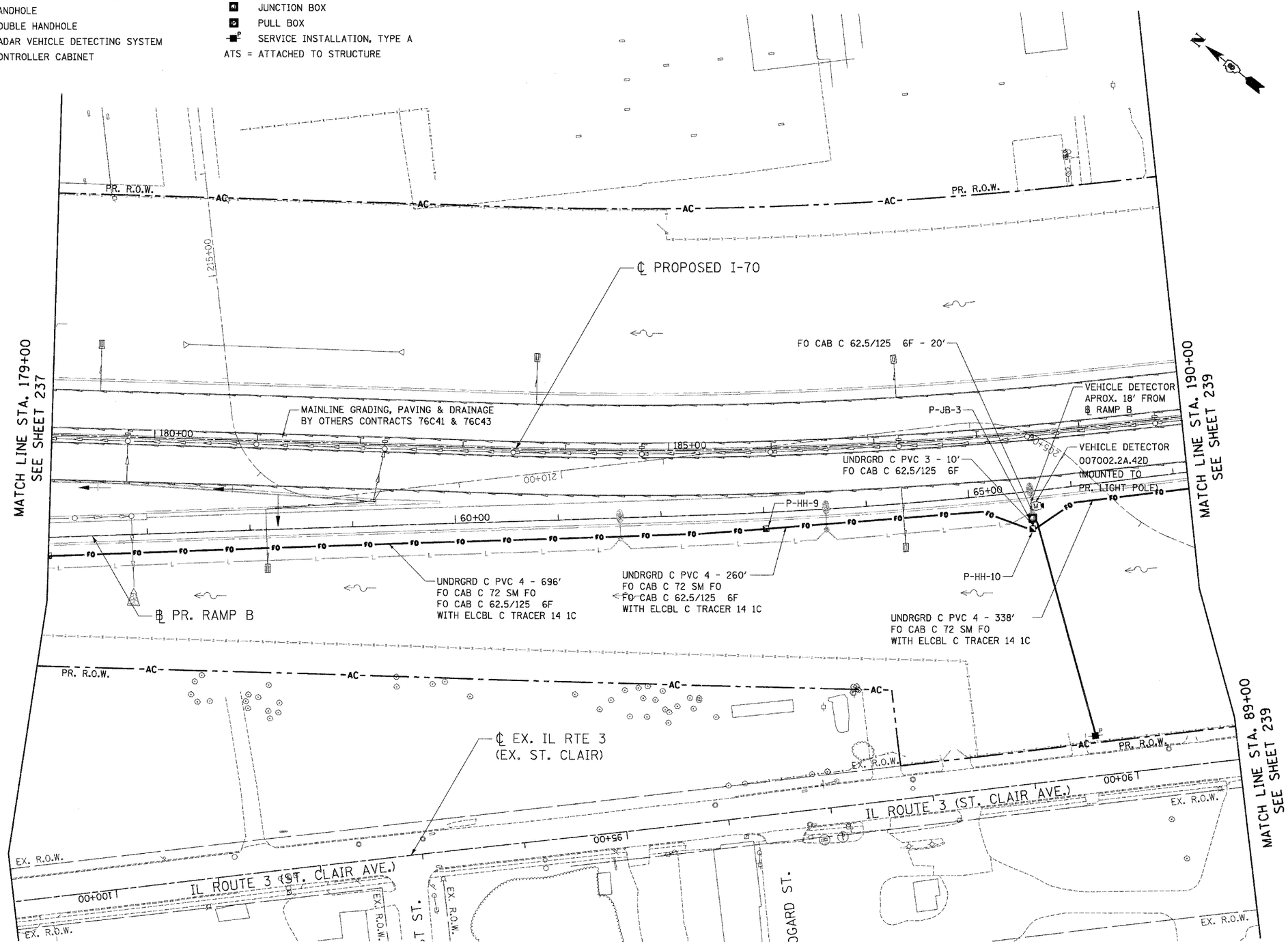
SCALE: 1"=50' | SHEET NO. 5 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	237
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A

ATS = ATTACHED TO STRUCTURE



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

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

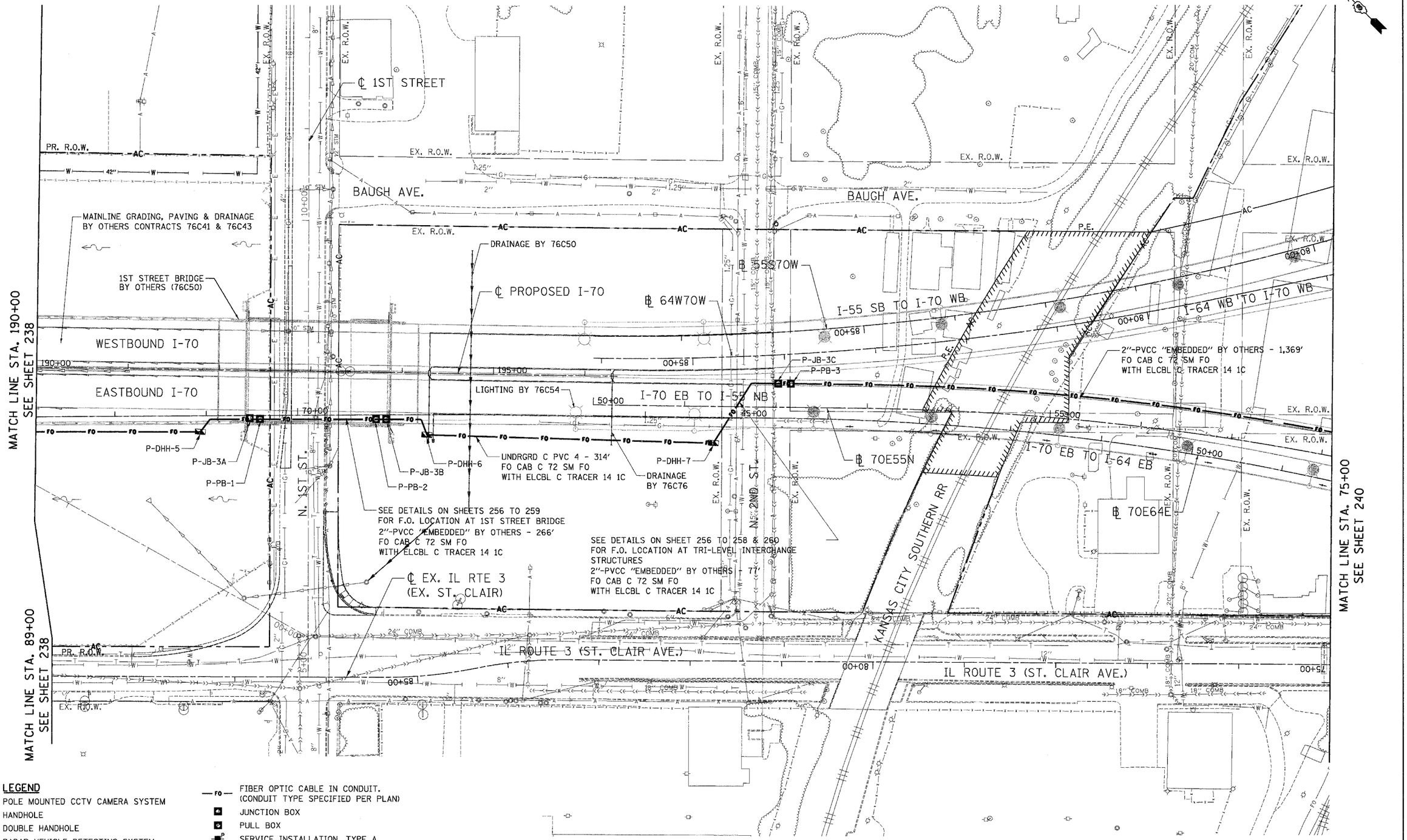
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
STA. 179+00 TO STA. 190+00

SCALE: 1"=50' | SHEET NO. 6 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	238
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

..\DBCONN-99-MOTIF.LDGN, ..\DBCONN-11-BORDER.LDGN, ..\DBCONN-11-MOTIF.LDGN, ..\DBCONN-11-LEGEND.LDGN, ..\DBCONN-11-LAYOUT.LDGN, ..\DBCONN-85-MOTIF.LDGN, ..\DBCONN-86-MOTIF.LDGN, ..\DBCONN-88-MOTIF.LDGN, ..\DBCONN-88-DRAINE.DGN
12-16-2011, 14:09:20 BDNGHUJO \\FS-0044\AM\VAULT.D-TRANS.07\2202\20568-001\CIVIL\CAD\99 ALL CONTRACTS\CONN\SHEETS CONTRACT 11\DBCONN-11-SHT-TSPLAN1-17402A.DGN



LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A

ATS = ATTACHED TO STRUCTURE

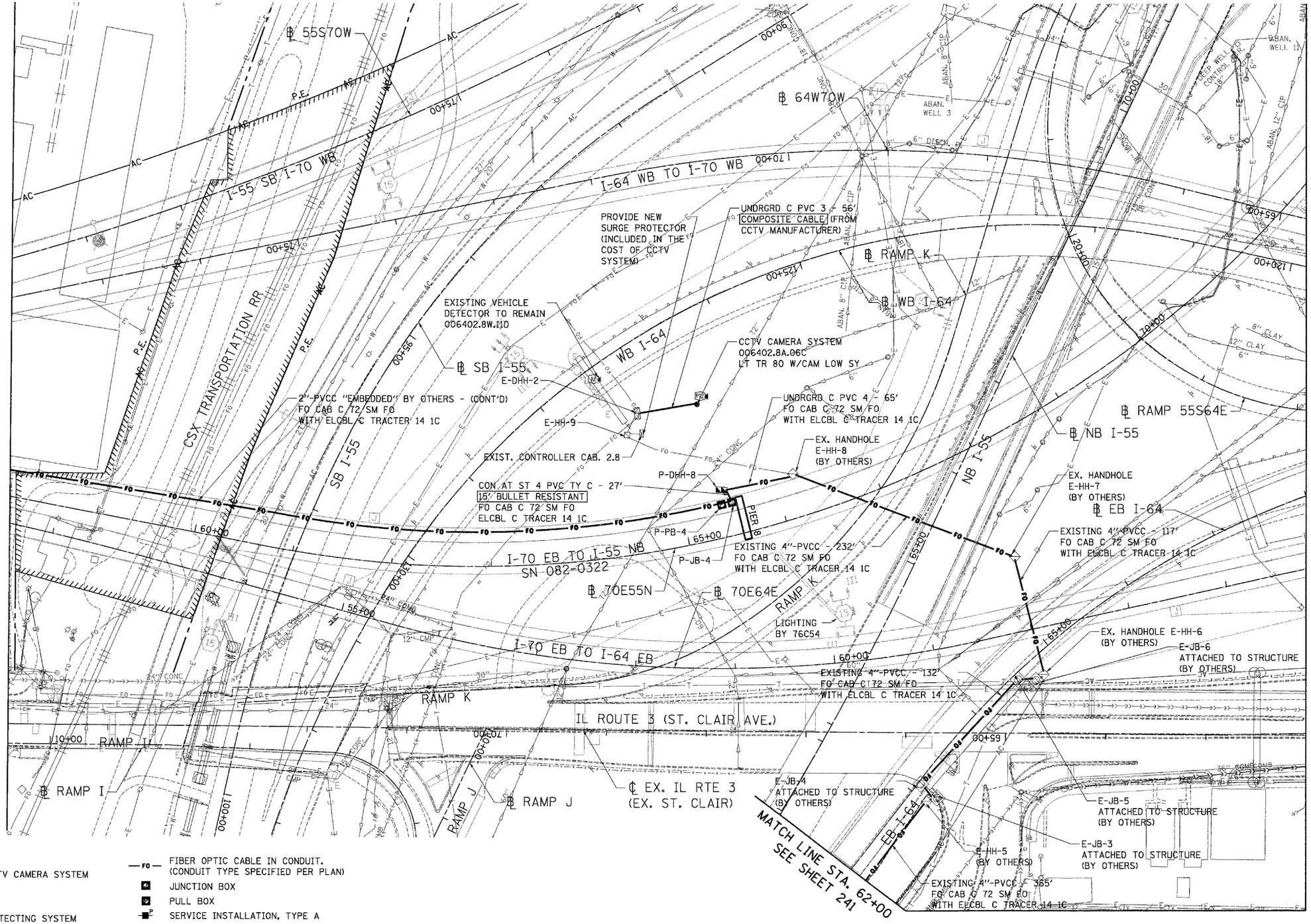
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
STA. 190+00 TO STA. 196+35.37

SCALE: 1"=50' | SHEET NO. 7 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	239
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A

ATS = ATTACHED TO STRUCTURE

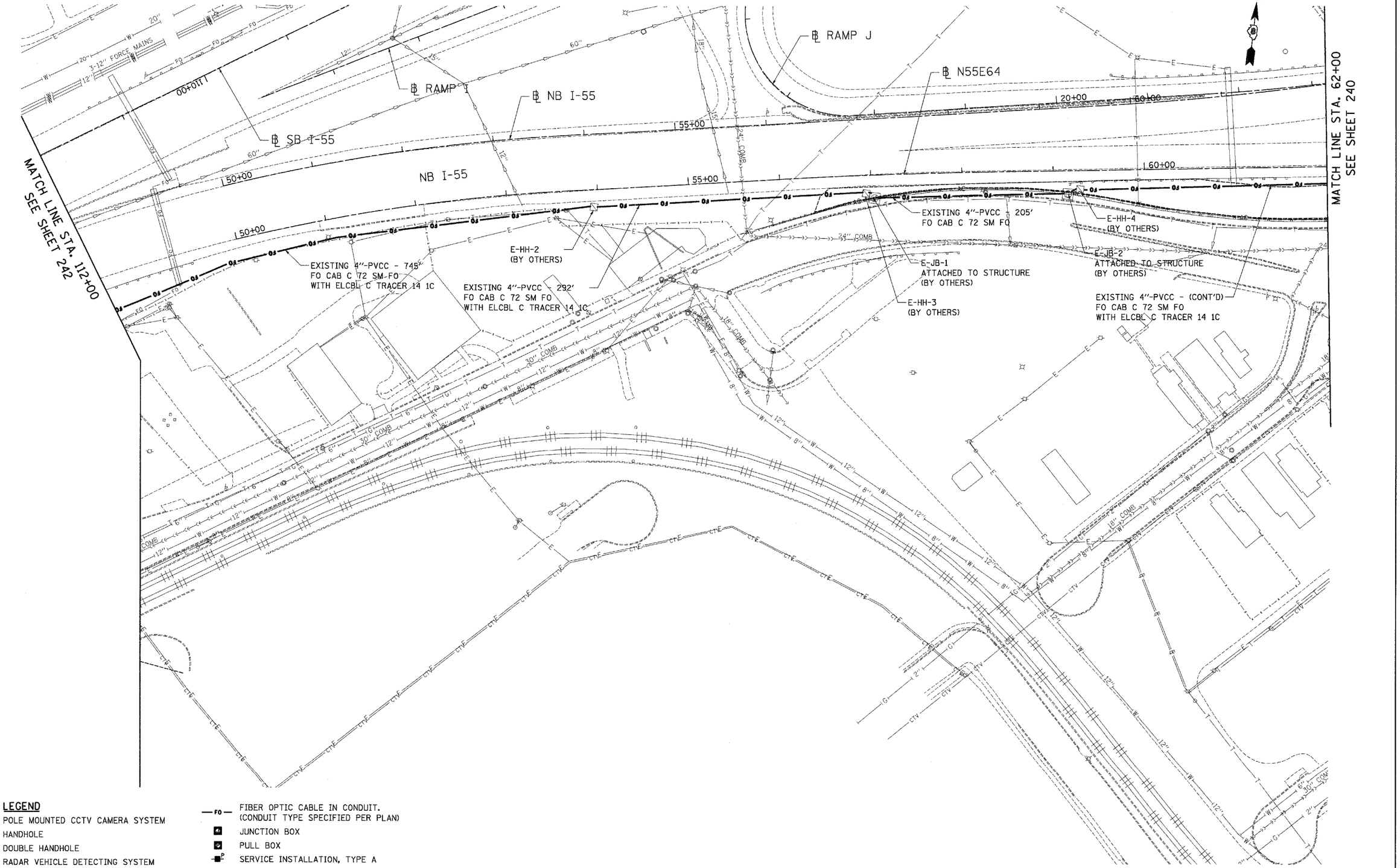
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70
ITS PLAN
TRI-LEVEL

SCALE: 1"=50' | SHEET NO. 8 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	240
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A
- ATS = ATTACHED TO STRUCTURE

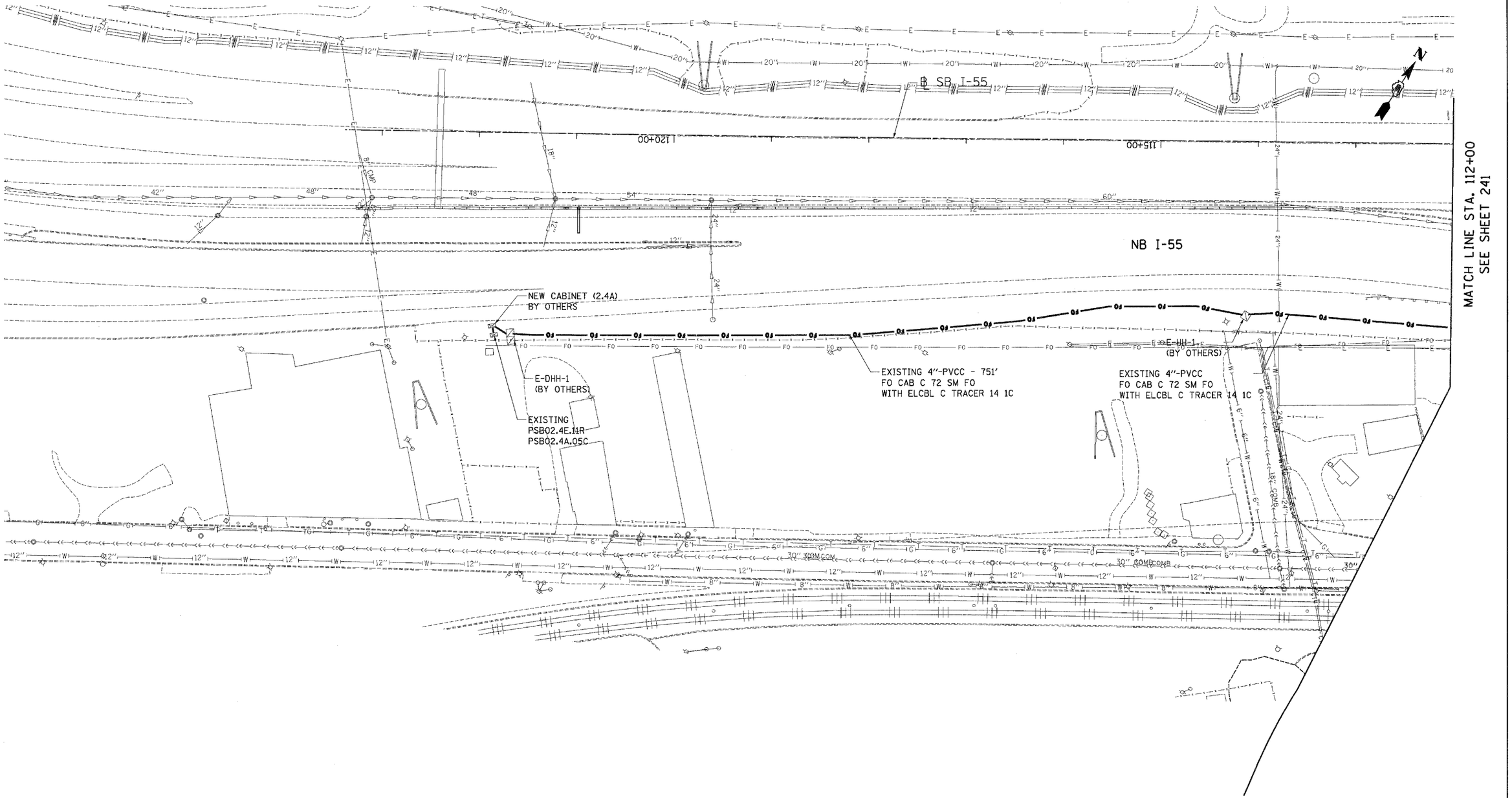
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - JB	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

PROPOSED I-70 /I-55
ITS PLAN 1
TRI-LEVEL

SCALE: 1"=50' | SHEET NO. 9 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	241
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- POLE MOUNTED CCTV CAMERA SYSTEM
- HANDHOLE
- DOUBLE HANDHOLE
- RADAR VEHICLE DETECTING SYSTEM
- CONTROLLER CABINET
- —FO— FIBER OPTIC CABLE IN CONDUIT. (CONDUIT TYPE SPECIFIED PER PLAN)
- JUNCTION BOX
- PULL BOX
- SERVICE INSTALLATION, TYPE A
- ATS = ATTACHED TO STRUCTURE

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS**
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - JB	REVISED -	**DEPARTMENT OF TRANSPORTATION**
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

PROPOSED I-70 /I-55
ITS PLAN 2
TRI-LEVEL

SCALE: 1"=50' | SHEET NO. 10 OF 10 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	242
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\\DBCONN-99-MOTIFLDGN, \\DBCONN-11-BORDERLDGN, \\DBCONN-11-MOTIFLDGN, \\DBCONN-11-ENGNDLDGN, \\DBCONN-11-LAYOUTLDGN, \\DBCONN-85-MOTIFLDGN, \\DBCONN-86-MOTIFLDGN, \\DBCONN-11-SHT-TSPLAN1-7200.DGN
12-14-2011 8:45:15 BONDHOJO \\FS-68641-PRV\VAULT\D-TRANS_87\2292\28868-00\CIVIL\CADD\99 ALL CONTRACTS\CONN\SHEETS CONTRACT 1\\DBCONN-11-SHT-TSPLAN1-7200.DGN

CONDUIT & CABLE SCHEDULES

FROM I.D.	TO I.D.	LENGTH (FEET)	CABLE SLACK AT "TO I.D."	CABLE LENGTH EMBEDDED IN FOUNDATION	CONDUIT TYPE	CABLE TYPE	ELCBL C TRACER 14 1C
E-JB-1	P-JB-1	1088			EXISTING 2" PVC	FO CAB C 62.5/125 6F	1088
I-1	P-DHH-1	42	30	5	UNDRGRD C PVC 4	FO CAB C 72 SM FO	42
I-1	EX. CAB	5			UNDRGRD C PVC 3		
I-1	P-DHH-1	42			UNDRGRD C PVC 3		
P-DHH-1	E-JB-7	55	10		CON AT ST 4 PVC TY C	FO CAB C 62.5/125 6F	55
P-DHH-1	P-HH-1	1310	30		CON AT ST 4 PVC TY C	FO CAB C 72 SM FO	1310
P-DHH-1	P-HH-1	1310	30			FO CAB C 62.5/125 6F	
P-HH-1	P-DHH-2	128	40		UNDRGRD C PVC 4	FO CAB C 72 SM FO	128
P-HH-1	P-DHH-2	128	40			FO CAB C 62.5/125 6F	
P-DHH-2	I-2	14	20	5	UNDRGRD C PVC 4	FO CAB C 72 SM FO	14
P-DHH-2	I-2	14	20	5		FO CAB C 62.5/125 6F	
P-DHH-2	I-2	14	20	5	UNDRGRD C PVC 4	FO CAB C 72 SM FO	14
I-2	P-JB-2	99		5	UNDRGRD C PVC 3	RS485 CABLE	
I-2	P-JB-2	30		5		RS485 CABLE	
I-2	CCTV1	13		5	UNDRGRD C PVC 3	COMPOSITE CABLE	
I-2	CCTV1	80		5		COMPOSITE CABLE	
P-DHH-2	P-HH-2	658	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	658
P-HH-2	P-HH-3	161	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	161
P-HH-3	P-HH-4	509	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	509
P-HH-4	P-HH-5	699	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	699
P-HH-5	P-HH-6	612	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	612
P-HH-6	P-HH-7	625	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	625
P-HH-7	P-DHH-3	136	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	136
P-DHH-3	I-3	23	20	5	UNDRGRD C PVC 4	FO CAB C 72 SM FO	23
P-DHH-3	I-3	23	20	5	UNDRGRD C PVC 4	FO CAB C 72 SM FO	23
P-DHH-3	I-3	23	20	5		FO CAB C 62.5/125 6F	
I-3	CCTV2	18		5	UNDRGRD C PVC 3	COMPOSITE CABLE	
I-3	CCTV2	50		5		COMPOSITE CABLE	
P-DHH-3	P-HH-8	557	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	557
P-DHH-3	P-HH-8	557	30			FO CAB C 62.5/125 6F	
P-HH-8	P-HH-9	696	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	696
P-HH-8	P-HH-9	696	30			FO CAB C 62.5/125 6F	
P-HH-9	P-HH-10	260	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	260
P-HH-9	P-HH-10	260	30			FO CAB C 62.5/125 6F	
P-HH-10	P-JB-3	10	10		UNDRGRD C PVC 3	FO CAB C 62.5/125 6F	
P-HH-10	P-JB-3	20		5		FO CAB C 62.5/125 6F	
P-HH-10	P-DHH-5	338	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	338
P-DHH-5	P-DHH-6	266	30		EMBEDDED (BY OTHERS)	FO CAB C 72 SM FO	266
	P-JB-3A		10			FO CAB C 72 SM FO	
	P-JB-3B		10			FO CAB C 72 SM FO	
P-DHH-6	P-DHH-7	314	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	314
P-DHH-7	P-JB-4	1446	10		EMBEDDED (BY OTHERS)	FO CAB C 72 SM FO	1446
	P-JB-3C		10			FO CAB C 72 SM FO	
P-JB-4	P-DHH-8	27	30		CON AT ST 4 PVC TY C	FO CAB C 72 SM FO	27
P-DHH-8	E-HH-8	65	30		UNDRGRD C PVC 4	FO CAB C 72 SM FO	65
CCTV3	E-DHH-2	56	20	5	UNDRGRD C PVC 3	COMPOSITE CABLE	
CCTV3	E-DHH-2	80				COMPOSITE CABLE	
E-DHH-2	E-HH-9	17	20		EX. CONDUIT	COMPOSITE CABLE	
E-HH-9	(2.8)	10	20		EX. CONDUIT	COMPOSITE CABLE	
E-HH-8	E-HH-7	232	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	232
E-HH-7	E-HH-6	117	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	117
E-HH-6	E-JB-6	2	10		EXISTING 4"-PVCC	FO CAB C 72 SM FO	2
E-JB-6	E-JB-5	27	10		EXISTING 4"-PVCC	FO CAB C 72 SM FO	27
E-JB-5	E-JB-4	132	10		EXISTING 4"-PVCC	FO CAB C 72 SM FO	132
E-JB-4	E-JB-3	27	10		EXISTING 4"-PVCC	FO CAB C 72 SM FO	27
E-JB-3	E-HH-5	2	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	2
E-HH-5	E-HH-4	365	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	365
E-HH-4	E-JB-2	17	10		EXISTING 4"-PVCC	FO CAB C 72 SM FO	17
E-JB-2	E-JB-1	205	10		EXISTING 4"-PVCC	FO CAB C 72 SM FO	205
E-JB-1	E-HH-3	14	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	14
E-HH-3	E-HH-2	292	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	292
E-HH-2	E-HH-1	745	30		EXISTING 4"-PVCC	FO CAB C 72 SM FO	745
E-HH-1	E-DHH-1	751	40		EXISTING 4"-PVCC	FO CAB C 72 SM FO	751
E-DHH-1	(2.4A)	13	20	5	EXISTING 4"-PVCC	FO CAB C 72 SM FO	13

TOTALS

CONDUITS	(FOOT) LENGTH
UNDERGROUND CONDUIT, PVC, 3" DIA.	243
UNDERGROUND CONDUIT, PVC, 4" DIA.	5,874
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC TYPE C	1,392
CABLES	**LENGTH**
FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	12,894
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F	4,396
RS485 (INCLUDED IN THE COST OF RADAR DETECTOR)	139
COMPOSITE CABLE (INCLUDED IN THE COST OF CCTV)	409
OTHER	**LENGTH**
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	13,007

EMBEDDED CONDUIT SCHEDULE

I.D.	STRUCT TYPE	LOCATION	STA.	O/S	NUMBER OF CONDUITS 2" PVC	3" PVC	4" PVC	LENGTH OF EACH FEET / CONDUIT	CON EMB STR 2 PVC FEET	CON EMB STR 3 PVC FEET	CON EMB STR 4 PVC FEET
I-1	CABINET	PR. I-70	128+06.30	12.6 LT	0	2	1	3	0	6	3
I-2	CABINET	PR. I-70	141+20.58	159.0 RT	1	2	2	3	3	6	6
I-3	CABINET	PR. I-70	173+45.89	187.7 RT	1	1	2	3	3	3	6
VD1	LP FOUNDATION	PR. I-70	141+08.26	52.4 RT	0	1	0	3	0	3	0
VD2	LP FOUNDATION	PR. I-70	188+47.76	77.1 RT	0	1	0	3	0	3	0
CCTV1	LP FOUNDATION	PR. I-70	141+40.67	172.34 RT	0	1	0	3	0	3	0
CCTV2	LP FOUNDATION	PR. I-70	173+58.72	168.4 RT	0	1	0	3	0	3	0
CCTV3	LP FOUNDATION	64W55E	126+62.08	88.6 LT	0	1	0	3	0	3	0

	CON EMB STR 2 PVC	CON EMB STR 3 PVC	CON EMB STR 4 PVC
TOTALS (FEET)	6	30	15

FILE NAME = #FILEL#	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE	**ITS SCHEDULES 1**
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - JB	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -		
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	243
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CABINET EQUIPMENT

PAY ITEM	DMS P-JB-1	SPLICE BOX (I-1)	JUNCTION BOX P-JB-2	CONTROLLER (I-2)	CONTROLLER (I-3)	JUNCTION BOX P-JB-3	JUNCTION BOX P-JB-4	CONTROLLER 2.8	CONTROLLER 2.4A	TOTALS
SFP-GE-L SFP MODULE				2	2				1	5
WIRED COMMUNICATION DATA CONVERTOR	1		1			1				3
3000 LAYER 2 SWITCH				1	1					2
ETHERNET MODEM			1	1	1	1				4
OPTICAL ETHERNET TRANSCEIVER	1			1						2

CAMERAS AND VEHICLE DETECTORS

I.D.	TYPE	LOCATION	STA.	OFF.	MOUNT TO	LIGHT POLE FDN 24D	LIGHT POLE FDN 30D	LT TOWER FDN 48D
CCTV1	CCTV CAMERA SYSTEM	PR. I-70	141+40.67	172.34 RT	LT TR 80 W/CAM LOW SYS			16.5
VD1	RADAR VEH DETECT SYST	PR. I-70	141+08.26	52.4 RT	LT P A 30MH TEN MT	5.0		
CCTV2	CCTV CAMERA SYSTEM	PR. I-70	173+58.72	168.4 RT	LP 50 W/CAM LOW SYS		7.0	
VD2	RADAR VEH DETECT SYST	PR. I-70	188+47.76	77.1 RT	PR LIGHT POLE			
CCTV3	CCTV CAMERA SYSTEM	64W55E	126+62.08	88.6 LT	LT TR 80 W/CAM LOW SYS			16.5

	LIGHT POLE FDN 24D	LIGHT POLE FDN 30D	LT TOWER FDN 48D
TOTALS (FOOT)	5.0	7.0	33.0

CABINETS AND CONTROLLERS

I.D.	TYPE	LOCATION	STA.	OFF.	CONC FDN TY D SPL (FOOT)
DMS	TR MTD LED DYN MSG SN	PR. I-70	116+90.94	47.6 RT	
I-1	CONT CAB TYPE III SPL	PR. I-70	128+06.30	12.6 LT	3.5
I-2	CONT CAB TYPE III SPL	PR. I-70	141+20.58	159.0 RT	3.5
I-3	CONT CAB TYPE III SPL	PR. I-70	173+45.89	187.7 RT	3.5
(2.8)	EXISTING	70E55N	64+73.71	119.2 LT	
(2.4A)	BY OTHERS	SB I-55	121+84.56	198.7 LT	

SERVICE INSTALLATION, TYPE A — TOTAL 4 EACH

LOCATION	STA.	OFF.	SUBTOTALS
PR. I-70	117+08.84	92.8 RT	1
PR. I-70	140+80.91	160.5 RT	1
PR. I-70	174+98.35	249.7 RT	1
PR. I-70	188+87.24	299.9 RT	1

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 10" — TOTAL 4 EACH

I.D.	LOCATION	STA.	OFF.	SUBTOTALS
P-JB-1	PR. I-70	116+78.39	48.3 RT	1
P-JB-2	PR. I-70	141+05.63	60.7 RT	1
P-JB-3	PR. I-70	188+47.60	80.0 RT	1
P-JB-4	70E55N	65+51.46	32.9 LT	1

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 20" X 20" X 8" — TOTAL EACH

I.D.	LOCATION	STA.	OFF.	SUBTOTALS
P-JB-3A	PR. I-70	192+33.96	52.5 RT	1
P-JB-3B	PR. I-70	193+83.07	51.4 RT	1
P-JB-3C	70E55N	52+01.98	25.9 LT	1

DOUBLE HANDHOLE — TOTAL 7 EACH

I.D.	LOCATION	STA.	OFF.	SUBTOTALS
P-DHH-1	PR. I-70	128+08.88	39.1 RT	1
P-DHH-2	PR. I-70	141+14.10	178.8 RT	1
P-DHH-3	PR. I-70	173+45.04	217.2 RT	1
P-DHH-5	PR. I-70	191+80.00	67.9 RT	1
P-DHH-6	PR. I-70	194+28.00	67.4 RT	1
P-DHH-7	70E55N	51+32.00	40.0 RT	1
P-DHH-8	70E55N	65+44.12	47.5 LT	1

PULL BOX ATTACHED TO STRUCTURE, AISI TYPE 316 STAINLESS STEEL NEMA 4X, 8" X 18" X 6" (HXWXD) — TOTAL 4 EACH

I.D.	LOCATION	STA.	OFF.	SUBTOTALS
P-PB-1	PR. I-70	192+45.03	52.9 RT	1
P-PB-2	PR. I-70	193+72.19	51.3 RT	1
P-PB-3	70E55N	52+15.84	26.0 LT	1
P-PB-4	70E55N	65+40.69	33.0 LT	1

HANDHOLE — TOTAL 10 EACH

I.D.	LOCATION	STA.	OFF.	SUBTOTALS
P-HH-1	PR. I-70	140+86.44	49.2 RT	1
P-HH-2	PR. I-70	148+36.66	279.2 RT	1
P-HH-3	PR. I-70	149+85.42	355.0 RT	1
P-HH-4	PR. I-70	154+88.46	281.2 RT	1
P-HH-5	PR. I-70	161+80.58	180.8 RT	1
P-HH-6	PR. I-70	167+86.53	142.7 RT	1
P-HH-7	PR. I-70	173+92.85	275.1 RT	1
P-HH-8	PR. I-70	179+00.27	118.1 RT	1
P-HH-9	PR. I-70	185+92.55	78.1 RT	1
P-HH-10	PR. I-70	188+46.59	93.8 RT	1

EXISTING ITS ITEMS (BY OTHERS) FOR INFORMATION ONLY

I.D.	TYPE	LOCATION	STA.	OFF.
E-HH-9	EXISTING HANDHOLE	70E55N	64+55.4	119.8 LT
E-HH-8	EXISTING HANDHOLE	70E55N	66+20.4	43.5 LT
E-HH-7	EXISTING HANDHOLE	70E55N	67+89.8	117.8 RT
E-HH-6	EXISTING HANDHOLE	55N64E	64+77.4	19.4 RT
E-HH-5	EXISTING HANDHOLE	55N64E	63+00.7	17.8 RT
E-HH-4	EXISTING HANDHOLE	55N64E	59+29.3	20.4 RT
E-HH-3	EXISTING HANDHOLE	55N64E	56+94.4	19.9 RT
E-HH-2	EXISTING HANDHOLE	55N64E	53+95.3	19.1 RT
E-HH-1	EXISTING HANDHOLE	SB I-55	114+10.8	179.2 RT
E-DHH-2	EXISTING DOUBLE HANDHOLE	70E55N	64+70.4	139.7 LT
E-DHH-1	EXISTING DOUBLE HANDHOLE	SB I-55	121+65.3	209.3 LT
E-JB-7	EXISTING JUNCTION BOX	PR. I-70	127+93.5	39.2 RT
E-JB-6	EXISTING JUNCTION BOX	55N64E	64+66.9	18.7 RT
E-JB-5	EXISTING JUNCTION BOX	55N64E	66+54.5	5.8 RT
E-JB-4	EXISTING JUNCTION BOX	55N64E	63+10.8	2.6 RT
E-JB-3	EXISTING JUNCTION BOX	55N64E	63+09.4	24.1 RT
E-JB-2	EXISTING JUNCTION BOX	55N64E	59+15.6	25.6 RT
E-JB-1	EXISTING CABINET	55N64E	57+03.2	25.4 RT
E-PB-102		PR. I-70	12793.86	9.6 RT
(2.4)EX		SB I-55	121+82.2	208.0 LT

NOTE:
LOCATIONS OF ALL EXISTING I.T.S ITEMS ARE APPROXIMATIONS. ACTUAL LOCATION TO BE VERIFIED IN THE FIELD

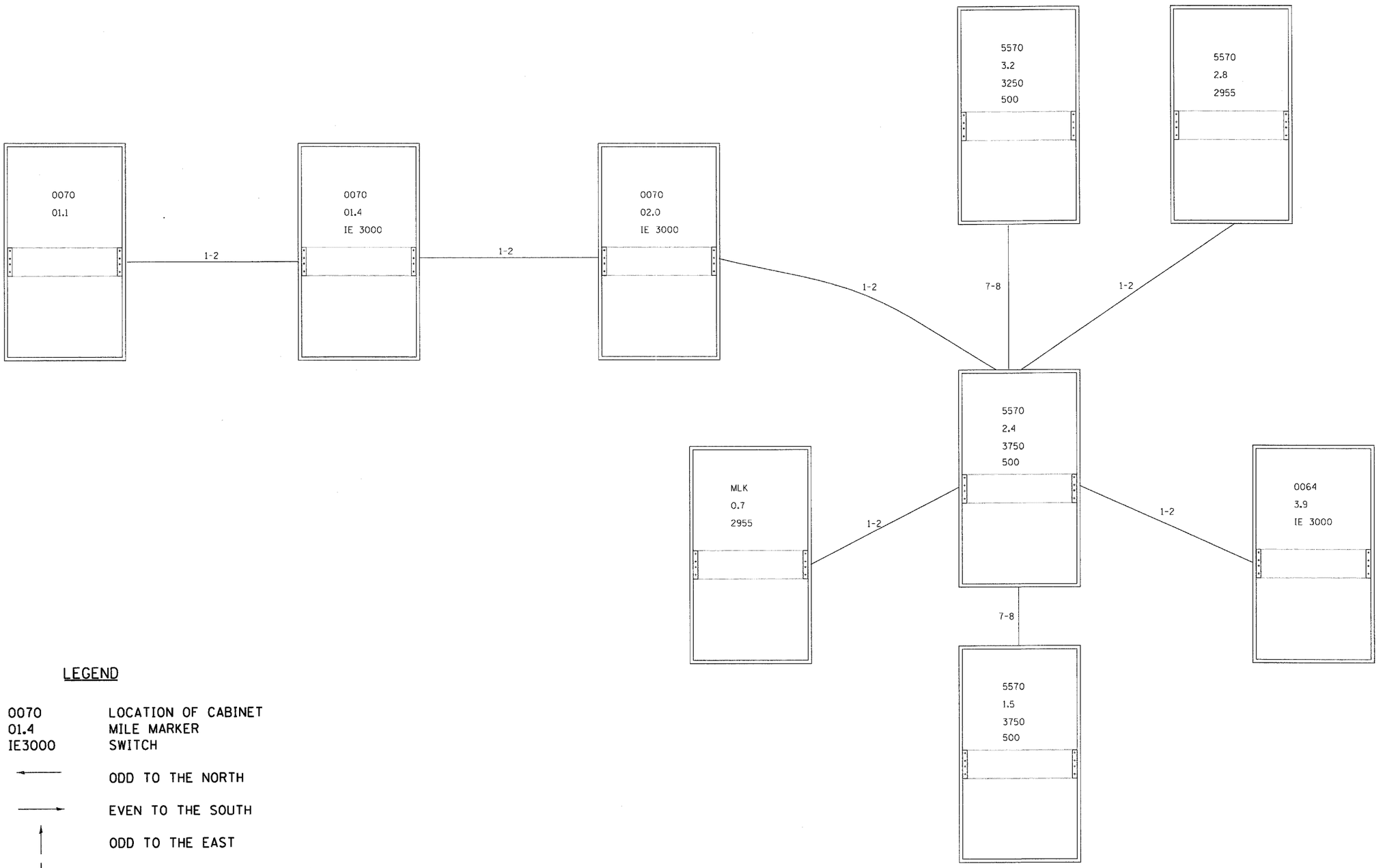
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	
		DRAWN - JB	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

ITS SCHEDULES 2

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	244
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

0070	LOCATION OF CABINET
01.4	MILE MARKER
IE3000	SWITCH
←	ODD TO THE NORTH
→	EVEN TO THE SOUTH
↑	ODD TO THE EAST
↓	EVEN TO THE WEST

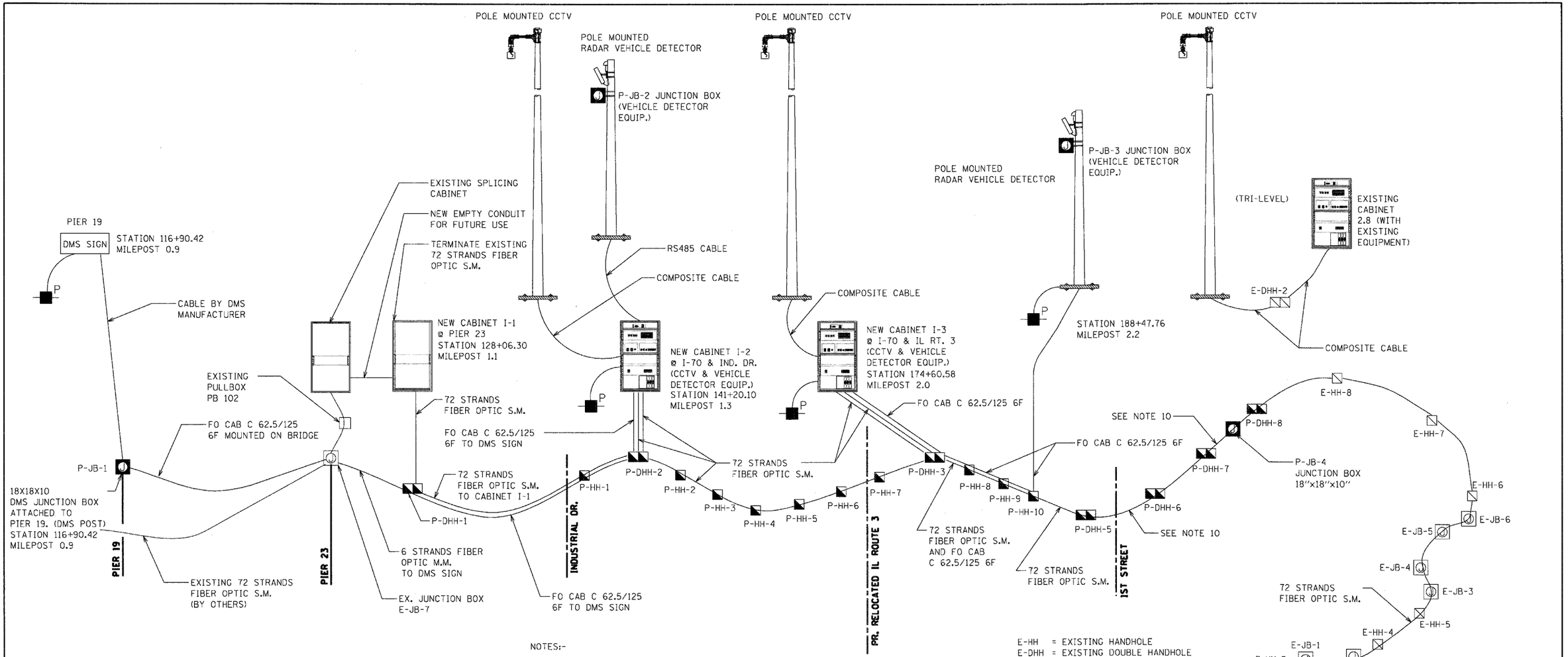
..\DGN\..11-BORDER1.DGN
10-19-2011, 15:31:58 BDNDHUD \\FS-0044\AM\VAULT\D-TRANS.07\2202\28868-001\ARCH\CAD\ITS TECH SYS\CONN\SHEETS CONTRACT 11\USECONN-11-SHT-TSPLANS.DGN

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS**
		DRAWN - ARM	REVISED -	**DEPARTMENT OF TRANSPORTATION**
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

SCHEMATIC DIAGRAM
SHOWING CABINETS AND ONE LINE DIAGRAM OF ACTIVE FIBERS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	245
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:-

1. LOCATIONS OF SINGLE HANDHOLES AND DOUBLE HANDHOLES SHALL BE AS SHOWN ON THE PLAN SHEETS.
2. REFER TO SHEET 250 FOR ENLARGED VIEW OF CABINET EQUIPMENT. AND REFER SPECIFICATIONS FOR EXACT EQUIPMENT DETAILS.
3. REFER TO SHEET 251 AND 252 FOR DETAILS OF CAMERA POLE AND LOWERING DEVICE & VEHICLE DETECTOR DEVICE. REFER SPECIFICATIONS FOR DETAILS.
4. 6 STRAND FIBER OPTIC CABLE FROM DMS @ PIER 19 TO CABINET I-2 @ I-70 & INDUSTRIAL DRIVE.
5. 72 STRAND FIBER OPTIC CABLE FROM DOUBLE HANDHOLE #7 NEAR EXISTING CABINET 2.8 TO NEW CABINET I-5 SHALL BE RUN WITHIN CONDUIT INSTALLED BY OTHERS.
6. POLES SHOWN SHALL BE NEW.
7. DISTANCE BEWTEEN HANDHOLES SHALL NOT EXCEED 750'
8. REFER TO SHEET 249 FOR SPLICING DETAILS.
9. ONE CONTINIOUS TRACER CABLE TO BE INSTALLED WITH THE 72 STRAND FIBER CABLE. THE TRACER CABLE COULD BE SPLICED AS NEEDED SO LONG AS IT ENABLES PASSAGE OF AN ELECTRICAL CHARGE FROM THE START TO FINISH OF THE CABLE.
10. SEE SHEETS 239 & 240 FOR PLAN VIEW OF ITS FIBER THROUGH BRIDGE CONDUIT. SEE SHEETS 256 TO 260 FOR ADDITIONAL CONNECTION DETAILS.

E-HH = EXISTING HANDHOLE
E-DHH = EXISTING DOUBLE HANDHOLE
E-JB = EXISTING JUNCITON BOX
P-HH = PROPOSED HANDHOLE
P-DHH = PROPOSED DOUBLE HANDHOLE
P-JB = PROPOSED JUNCTION BOX
PB = PULL BOX

FIBER CABLE SPLICING CHART.

	CABINET I-1 @ PIER 23		CABINET I-2 @ I-70 & INDUSTRIAL DRIVE		CABINET I-3 @ I-70 & IL RT. 3		CABINET I-4 @ EXISTING CABINET 2.4	
	NORTH	SOUTH	NORTH	SOUTH	NORTH	SOUTH	NORTH	
FIBER 1-2		T	T	T	T	T	J	
FIBER 3-4		T	T	T	T	T	J	
FIBER 5-6		T	T	T	T	T	T	
FIBER 7-8		T	T	T	T	T	T	
FIBER 9-10		T	T	T	T	T	T	
FIBER 11-12		T	T	T	T	T	T	
FIBER 13-14		T	T	T	T	T	T	
FIBER 15-16		T	T	T	T	T	T	
FIBER 17-18		T	T	T	T	T	T	
FIBER 19-20		T	T	T	T	T	T	
FIBER 21-22		T	T	T	T	T	T	
FIBER 23-24		T	T	T	T	T	T	
FIBER 25-26		T	S	S	S	S	T	
FIBER 27-28		T	S	S	S	S	T	
FIBER 29-36		T	S	S	S	S	T	
FIBER 37-72		T	S	S	S	S	T	

T = TERMINATE
S = SPLICE
J = JUMPER

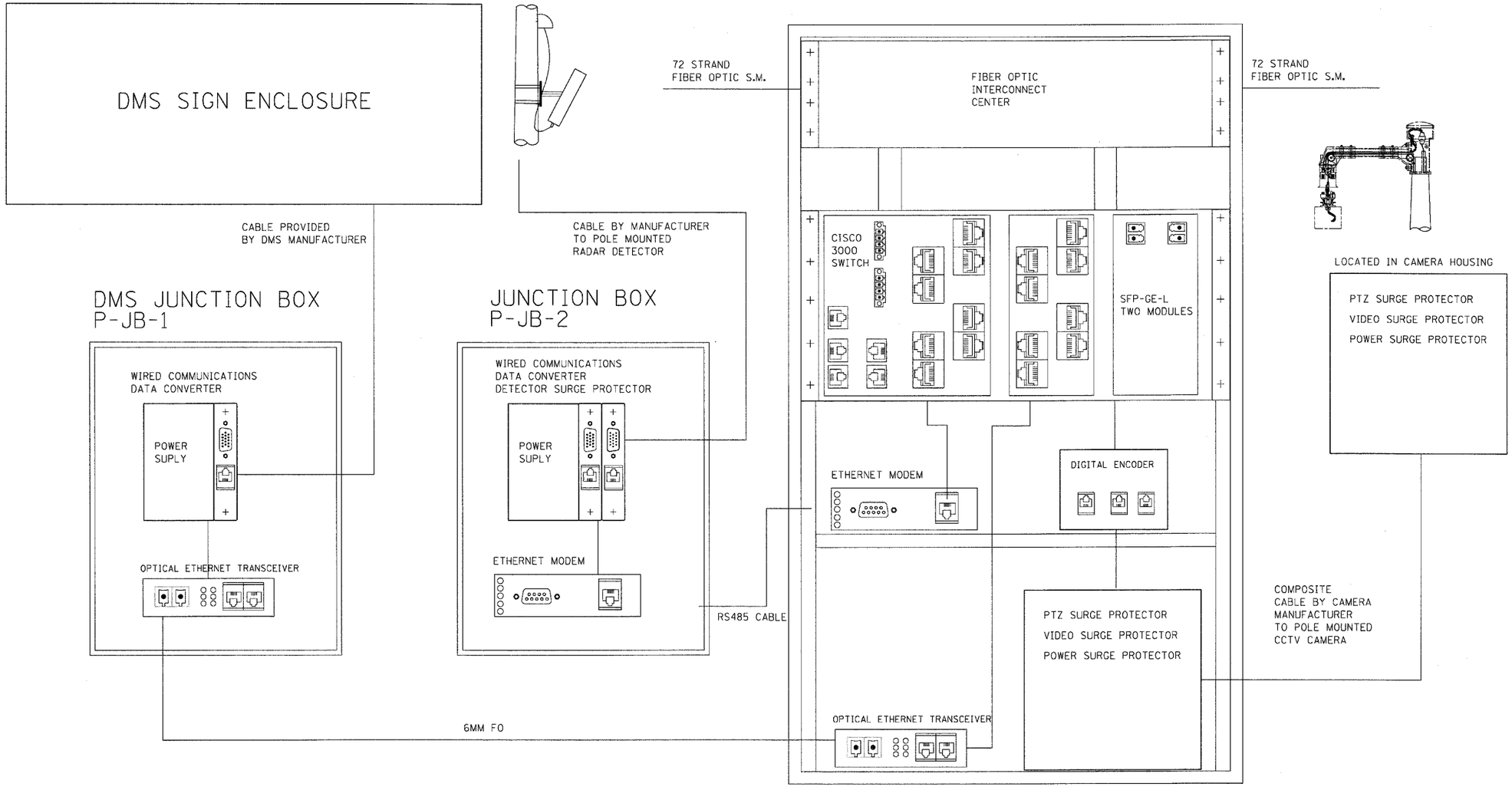
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	
		DRAWN - ARM	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

SCHEMATIC DIAGRAM

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	246
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



1. SCHEMATIC DIAGRAM OF EQUIPMENT CABINET (I-2) FOR BOTH CCTV CAMERA SYSTEM AND RADAR VEHICLE DETECTION SYSTEM, AND CONNECTION TO DMS SIGN

NOTES:-

1. REFER TO SHEET 249 FOR FIBER CABLE SPLICING CHART.

..\DBCONN-11-BORDERLDGN,..\DBCONN-11-SHT-TSPLAN2-ALDGN
10-19-2011,15:32:07 BONDHUJD \\FS-0044\AMVAULT\D-TRANS_07\2202\28868-001\ARCH\CAD\ITS TECH SYS\CONN\SHEETS CONTRACT 11\DBCONN-11-SHT-TSPLAN2-BLDGN

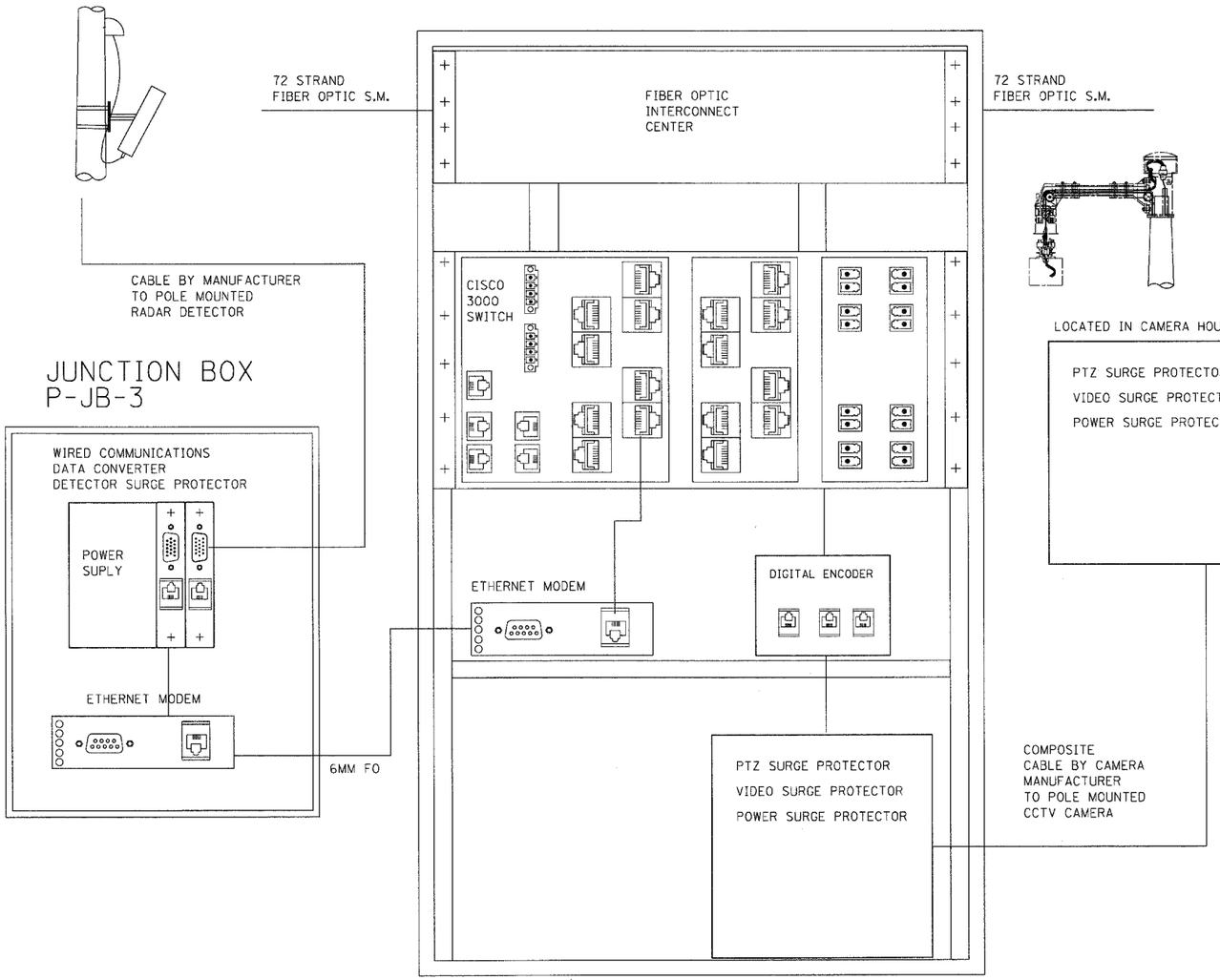
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	
		DRAWN - ARM	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

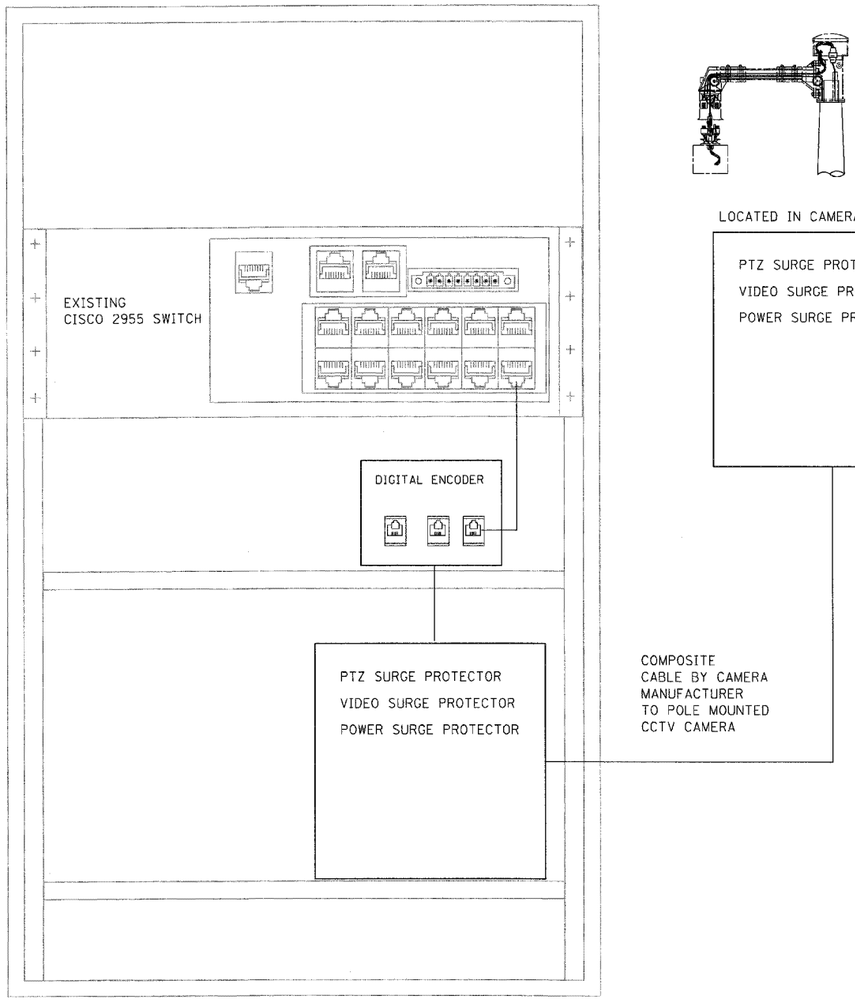
SCHEMATIC CABINET EQUIPMENT CONNECTION DIAGRAM 1

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	247
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



1. SCHEMATIC DIAGRAM OF EQUIPMENT CABINET (I-3) FOR BOTH CCTV CAMERA SYSTEM AND RADAR VEHICLE DETECTION SYSTEM.



2. SCHEMATIC DIAGRAM OF EXISTING EQUIPMENT CABINET (MP2.8) FOR BOTH CCTV CAMERA SYSTEM

NOTES:-

1. REFER TO SHEET 249 FOR FIBER CABLE SPLICING CHART.

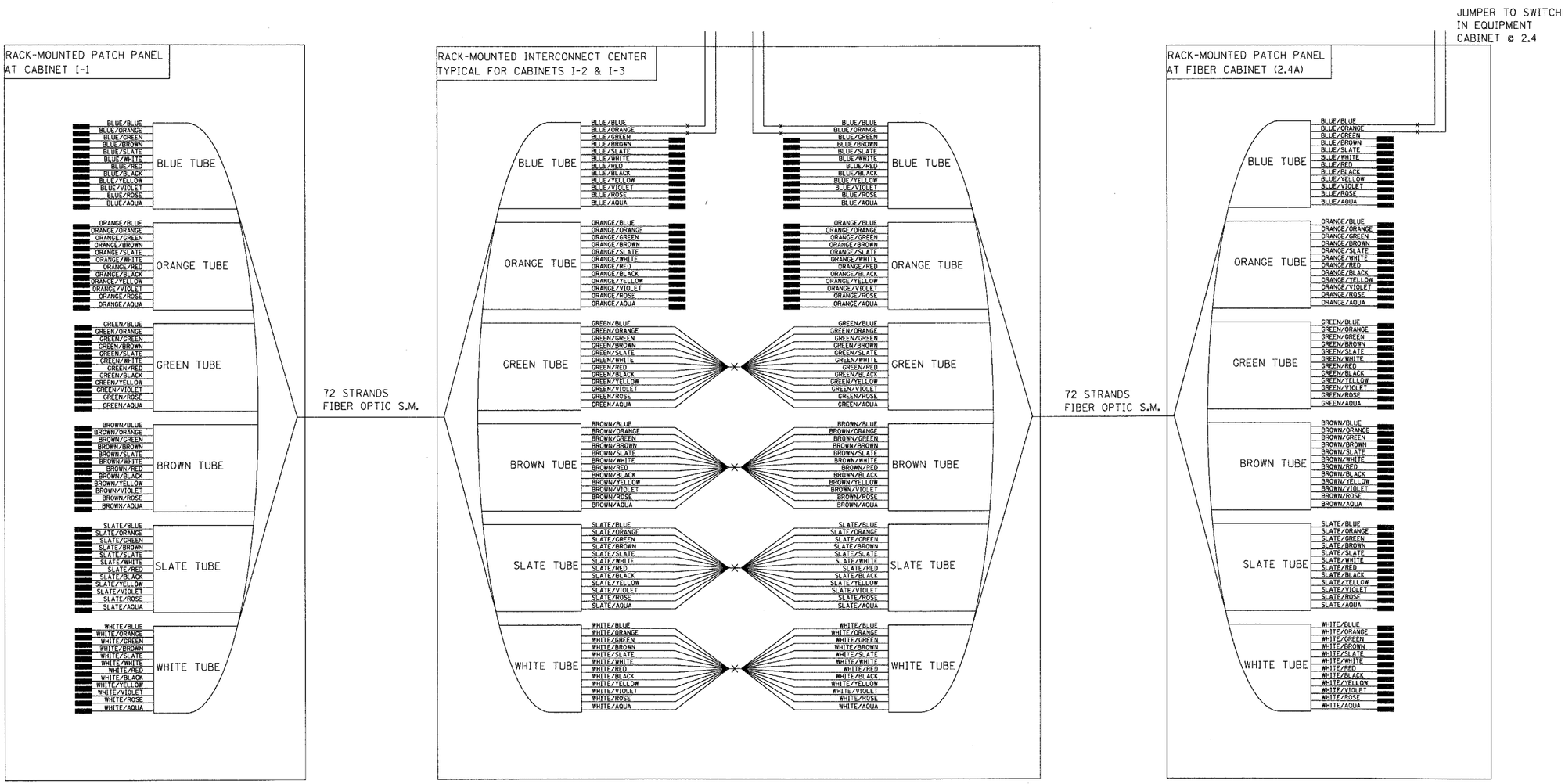
..\DGCONN-11-BORDER1.DGN
10-19-2011, 15:32:12
BONGHUJO
\\VFS-0044\VAV\VAULT\D-TRANS_07\2222\20868-001\ARCH\CADD\ITS TECH SYS\CONN\SHEETS CONTRACT 11\DBCONN-11-SHT-TSPLAN2-A.DGN

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - ARM	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

SCHEMATIC CABINET EQUIPMENT CONNECTION DIAGRAM 2

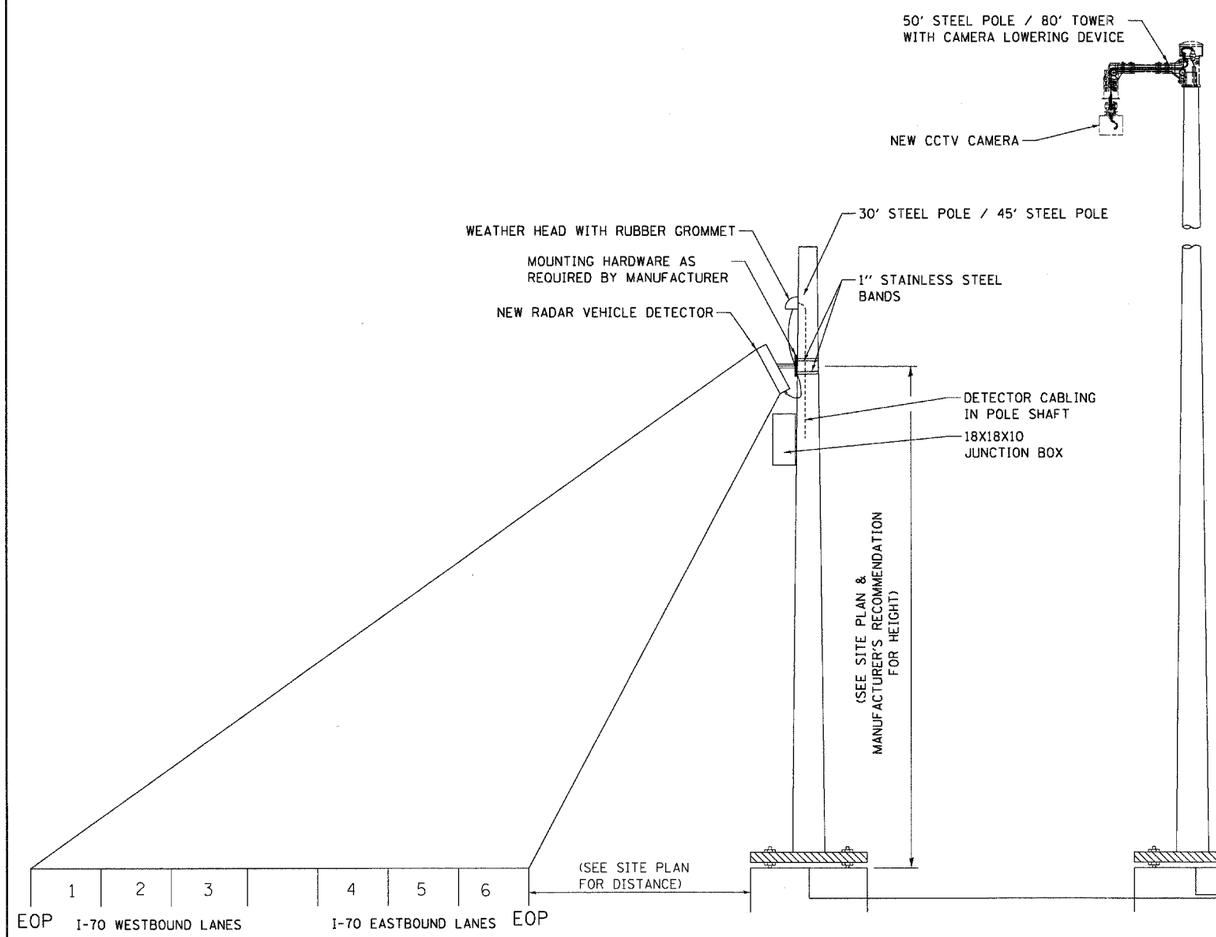
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	248
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE	**SPLICING DETAIL** **CABINETS I-1, I-2, I-3 & I-4**
		DRAWN - ARM	REVISED -		
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -		SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	249
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

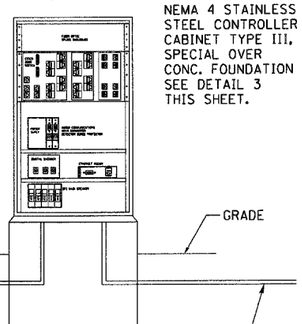


1. RADAR VEHICLE DETECTOR

NOT TO SCALE

LOCATIONS:

1. STA. 141+08.26, 52.4' RT (I-70)
   30' TOWER W/3 LANES PER DIRECTION
2. STA. 188+47.76, 77.1 RT (I-70)
   45' LIGHT POLE W/3 LANES PER DIRECTION

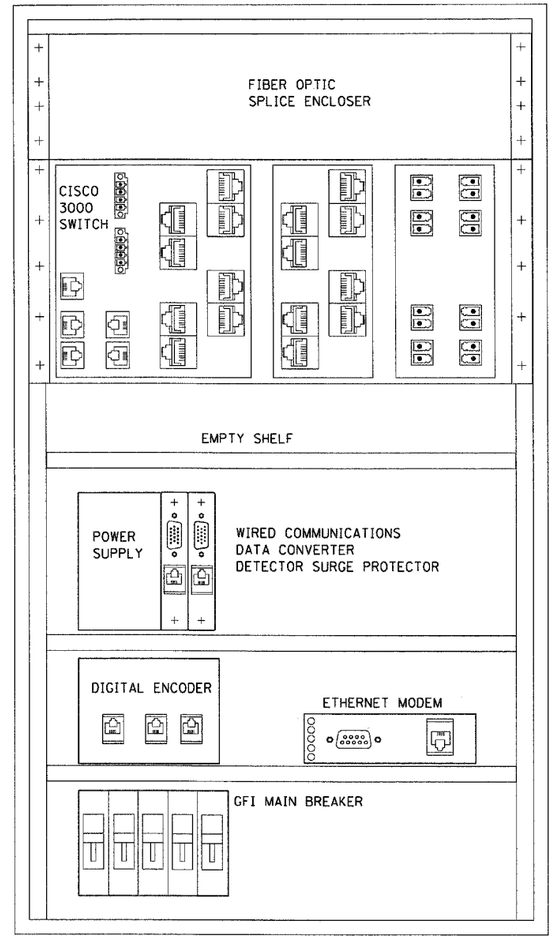


2. CCTV CAMERA

NOT TO SCALE

LOCATIONS:

1. STA. 141+40.67, 172.3' RT (I-70)
   80' TOWER
2. STA. 173+58.72, 168.4' RT (I-70)
   50' ON STEEL POLE
3. STA. 126+62.08, 88.64' LT (64W55E)
   80' TOWER



3. ELEVATION OF EQUIPMENT IN CABINET

NOT TO SCALE

..\DBCONN-11-BORDER.DGN
10-19-2011, 15:32:20 BONDHUJD \\FS-0244\AM\VAULT\D-TRANS\07-2282-20868-B01\ARCH\CADVITS TECH SYS\CONN\SHEETS CONTRACT 11\DBCONN-11-SHT-TSPLAN3.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - ARM	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

RADAR VEHICLE DETECTION & CCTV CAMERA DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	250
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE TOP TENON, TENON PLATE AND POLE/TOWER TOP DETAILS

NEW RADAR VEHICLE DETECTOR (SEE RADAR VEHICLES DETECTOR DETAIL)

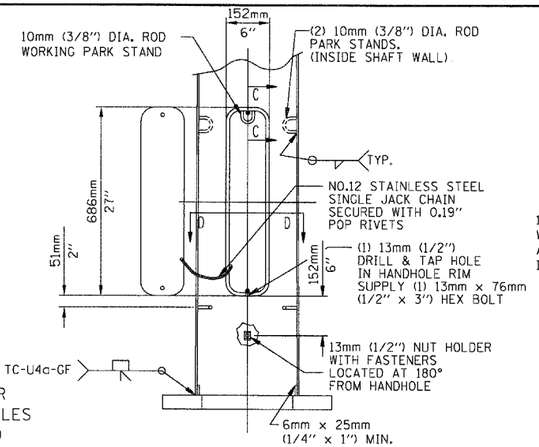
(50'-0") OVERALL POLE/(80'-0") OVERALL TOWER HEIGHT

REFER MANUFACTURERS GUIDE FOR HEIGHT OF RADAR VEHICLE DETECTOR

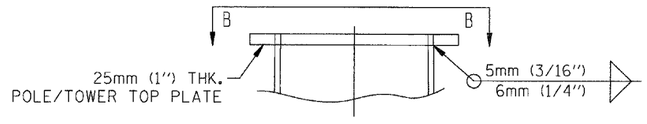
SEE HANDHOLE DETAIL

45°

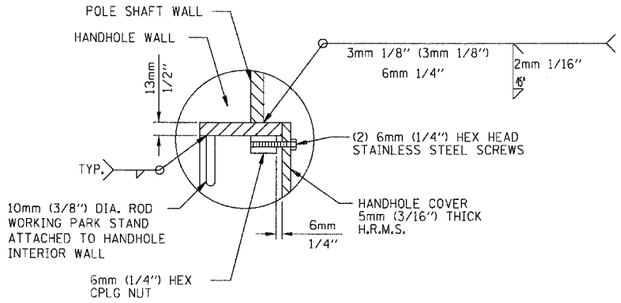
EOP



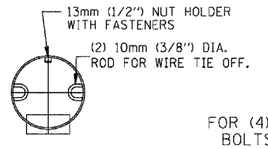
DETAIL A
6x27 HANDHOLE



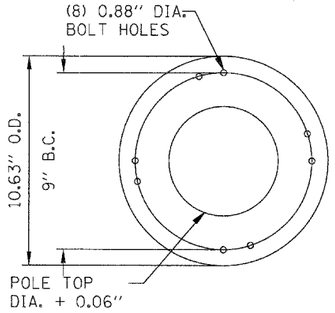
POLE/TOWER TOP DETAIL



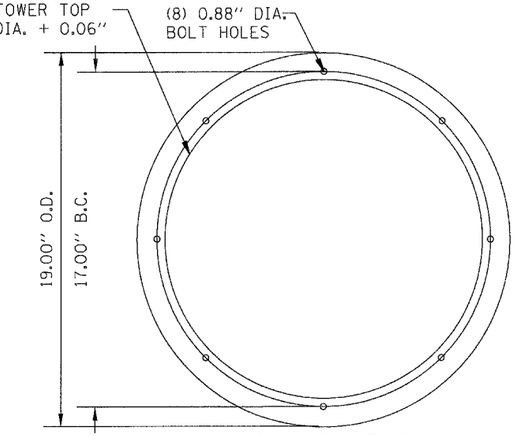
SECTION C-C



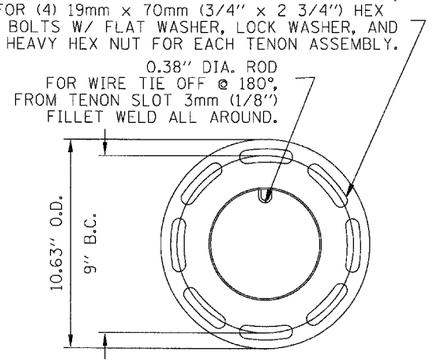
SECTION D-D



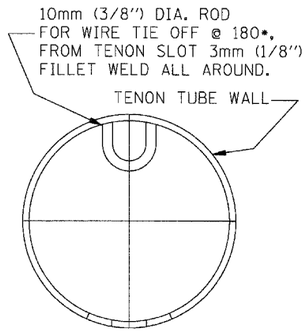
SECTION B-B
50'-0" POLE
PLATE DETAIL



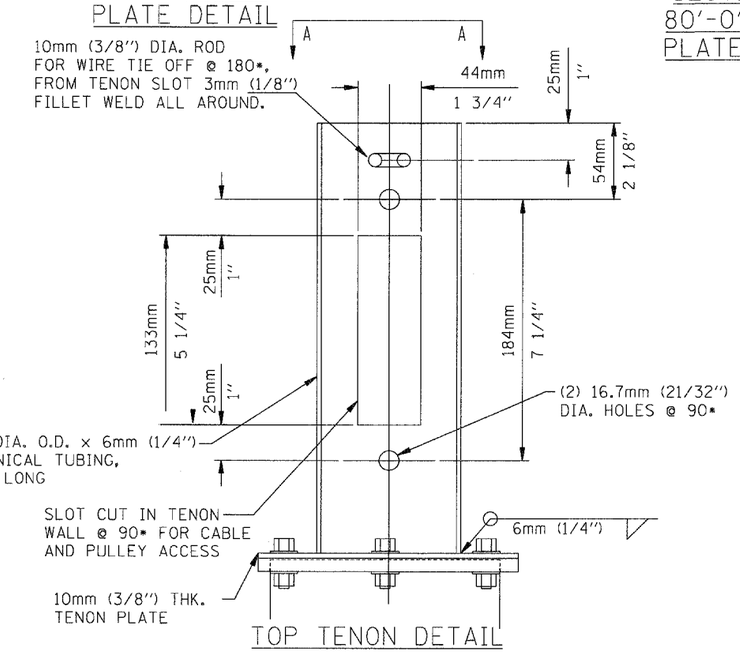
SECTION B-B
80'-0" TOWER
PLATE DETAIL



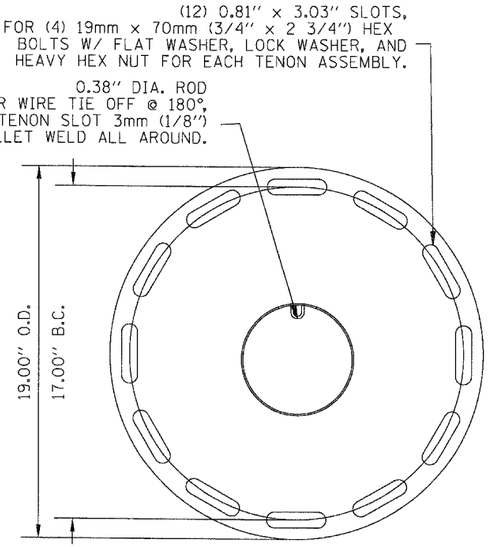
TENON PLATE DETAIL
50'-0" POLE



SECTION A-A
WIRE TIE OFF
ORIENTATION DETAIL



TOP TENON DETAIL



TENON PLATE DETAIL
80'-0" TOWER

NOTE:
50' POLE MATERIALS SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 830 OF THE STANDARD SPECIFICATIONS.
80' TOWER MATERIALS SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 835 OF THE STANDARD SPECIFICATIONS

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - ARM	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

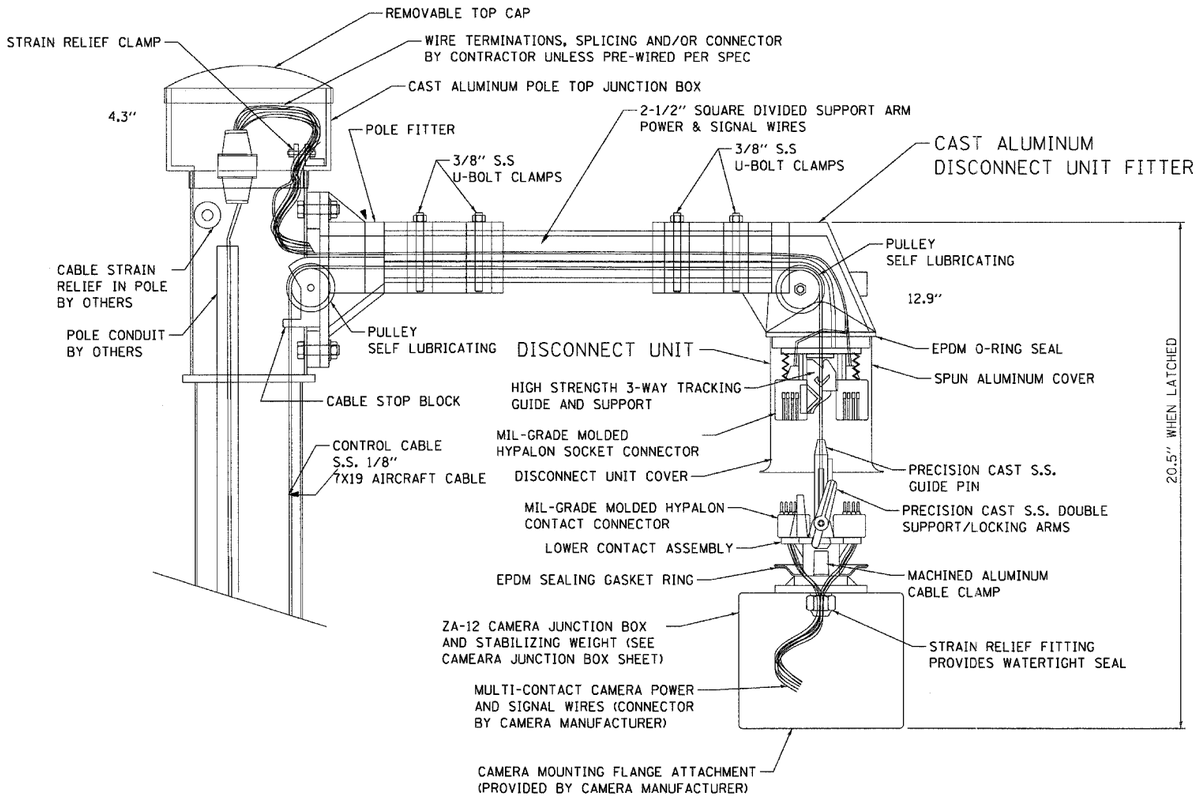
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

POLE AND TOWER MOUNTED CCTV WITH CAMERA LOWERING DEVICE

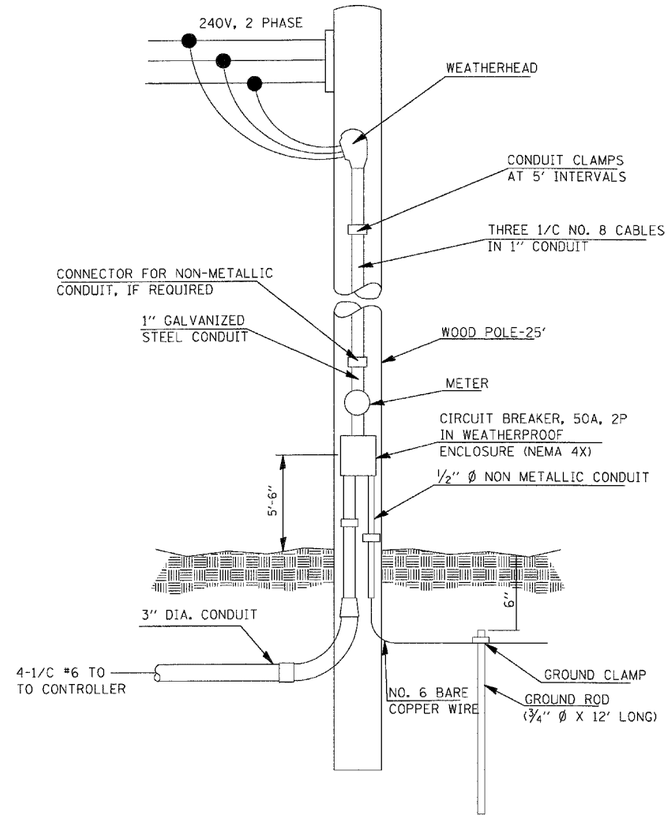
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	251
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CAMER LOWERING DEVICE FOR POLE MOUNTING MULTI-FUNCTION SURVEILLANCE CAMERAS CLDMG2-HYP-050-ST-D & CLDMG2-HYP-080-ST-D

NOT TO SCALE

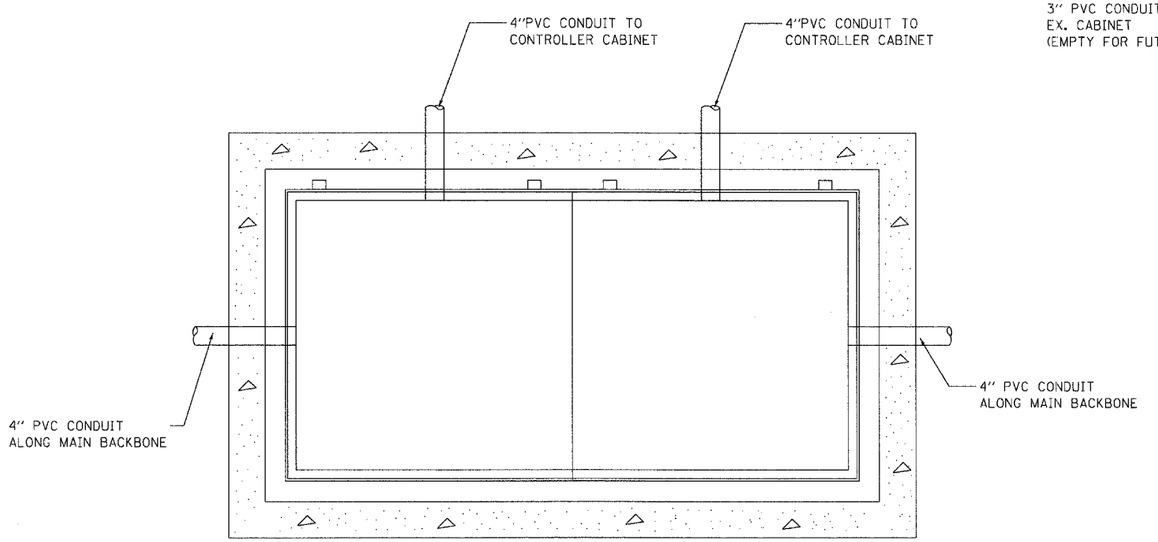


SERVICE INSTALLATION, TYPE A

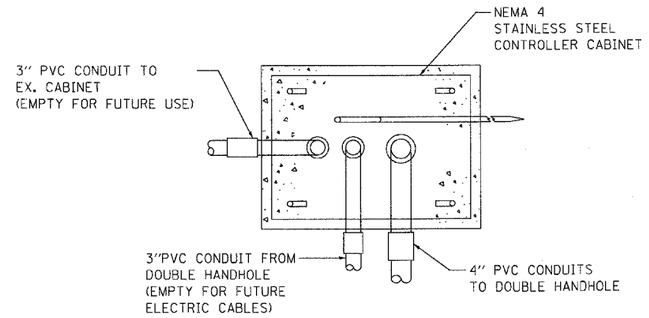
NOT TO SCALE

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE	**POLE AND TOWER MOUNTED CCTV WITH CAMERA LOWERING DEVICE DETAIL & SERVICE INSTALLATION, TYPE A DETAIL**
		DRAWN - ARM	REVISED -		
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -		

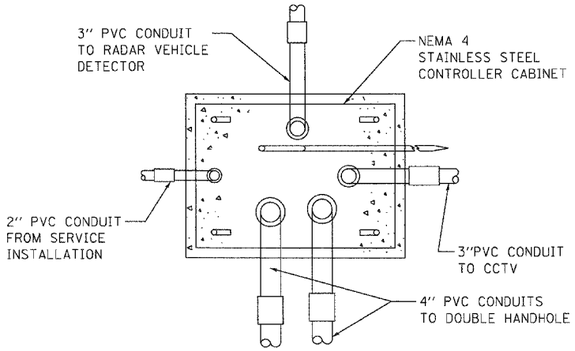
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	252
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



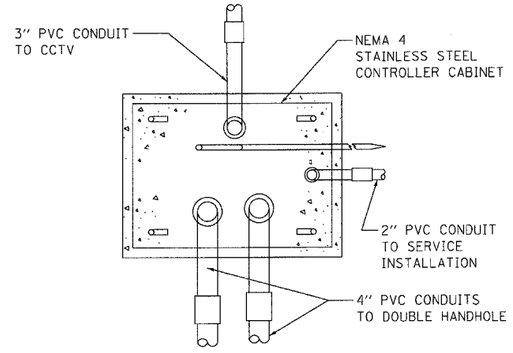
PLAN DOUBLE HANDHOLE



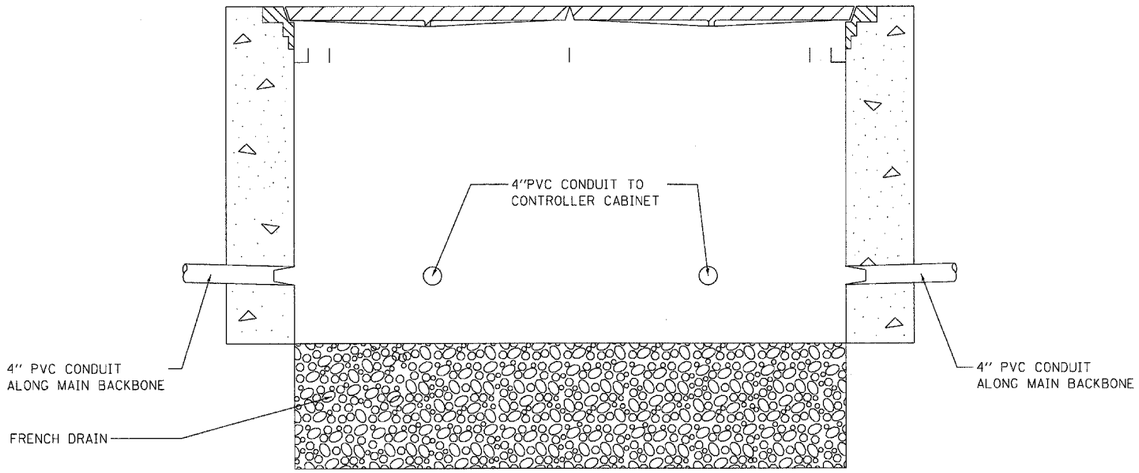
PLAN (I-1) CONTROLLER CABINET



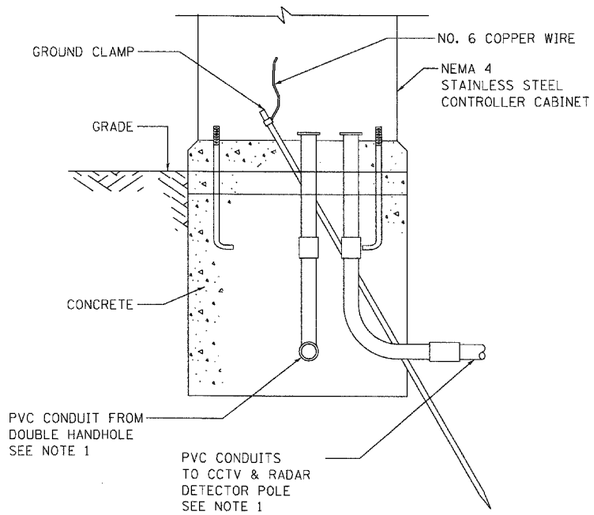
PLAN (I-2) CONTROLLER CABINET



PLAN (I-3) CONTROLLER CABINET



SECTION DOUBLE HANDHOLE



ELEVATION CONTROLLER CABINET

NOTES:
1. SEE SHEET 243 FOR NUMBER AND SIZE OF CONDUITS LOCATED IN EACH FOUNDATOIN.

\\DBCONN-11-BORDER.DGN
10-19-2011, 15:32:30 BONDHALIO \\FS-0044\VAM\VAULT\D-TRANS_07\2202\20868-001\ARCH\CADD\ITS TECH SYS\CONN\SHEETS CONTRACT II\DBCONN-11-SHT-TSPL4N4.DGN

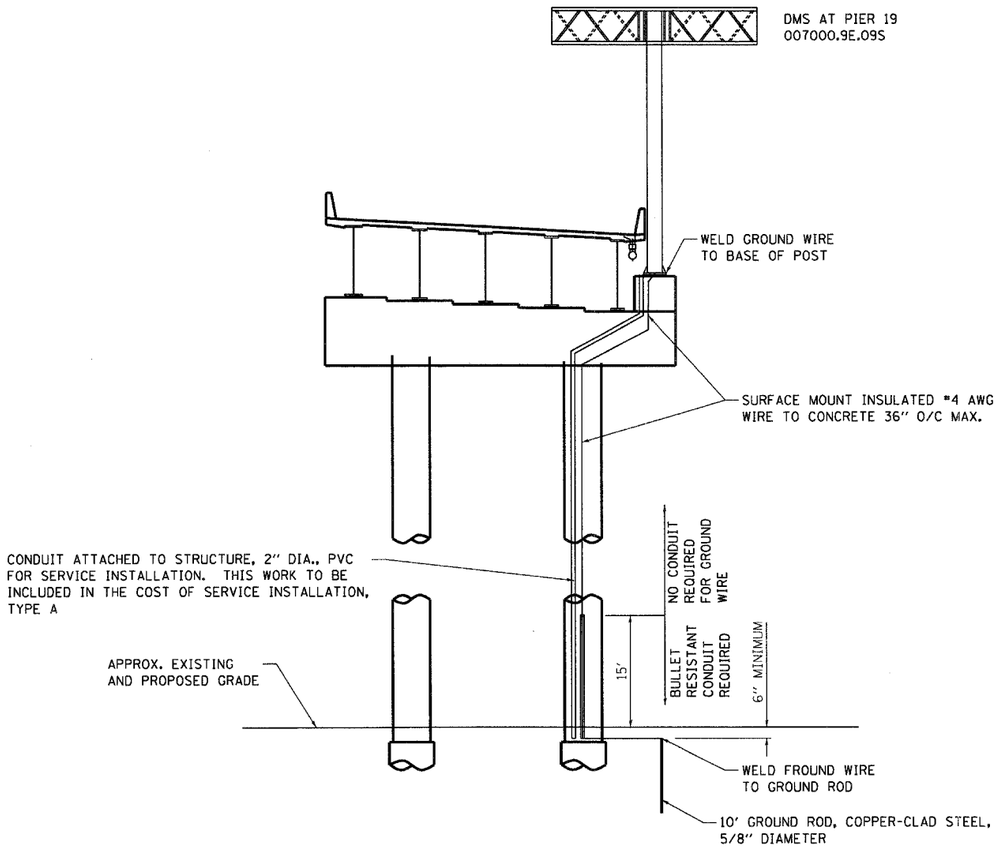
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	
		DRAWN - ARM	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

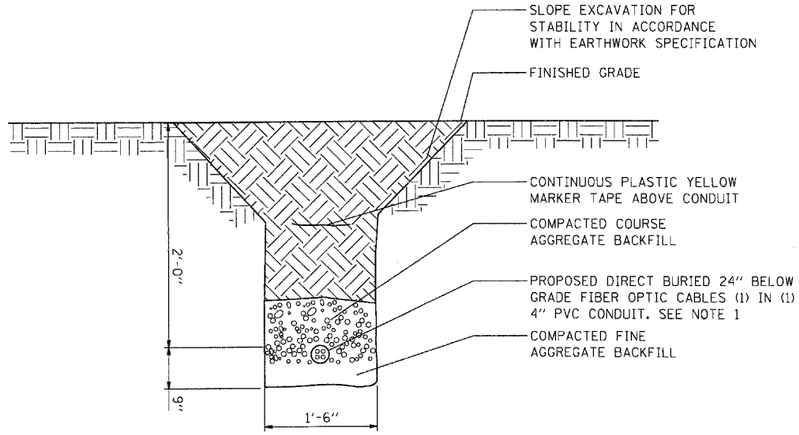
SCHEMATIC CONDUIT ROUTING DETAIL
HANDHOLES & CONTROLLER CABINET

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

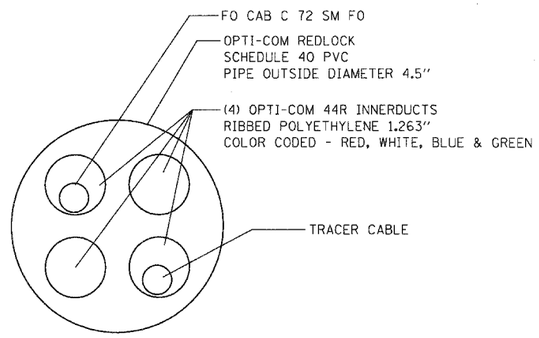
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	253
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 76E06	



EB I-70 ELEVATION
PIER 19



1. TYP. SECTION OF CONDUIT
TRENCH PARALLEL TO ROAD



2. CONDUIT CROSS SECTION

NOTES

1. OPTI-COM REDLOCK SCHEDULE 40 PVC PIPE OUTSIDE DIAMETER 4.5" WITH (4) OPTI-COM 44R INNERDUCTS RIBBED POLYETHYLENE 1.263"
2. EACH INNERDUCT SHALL BE A DIFFERENT COLOR
3. TRENCH WIDTH SHALL BE DETERMINED BY NUMBER OF CONDUITS AND SIDE WALL COMPACTION.

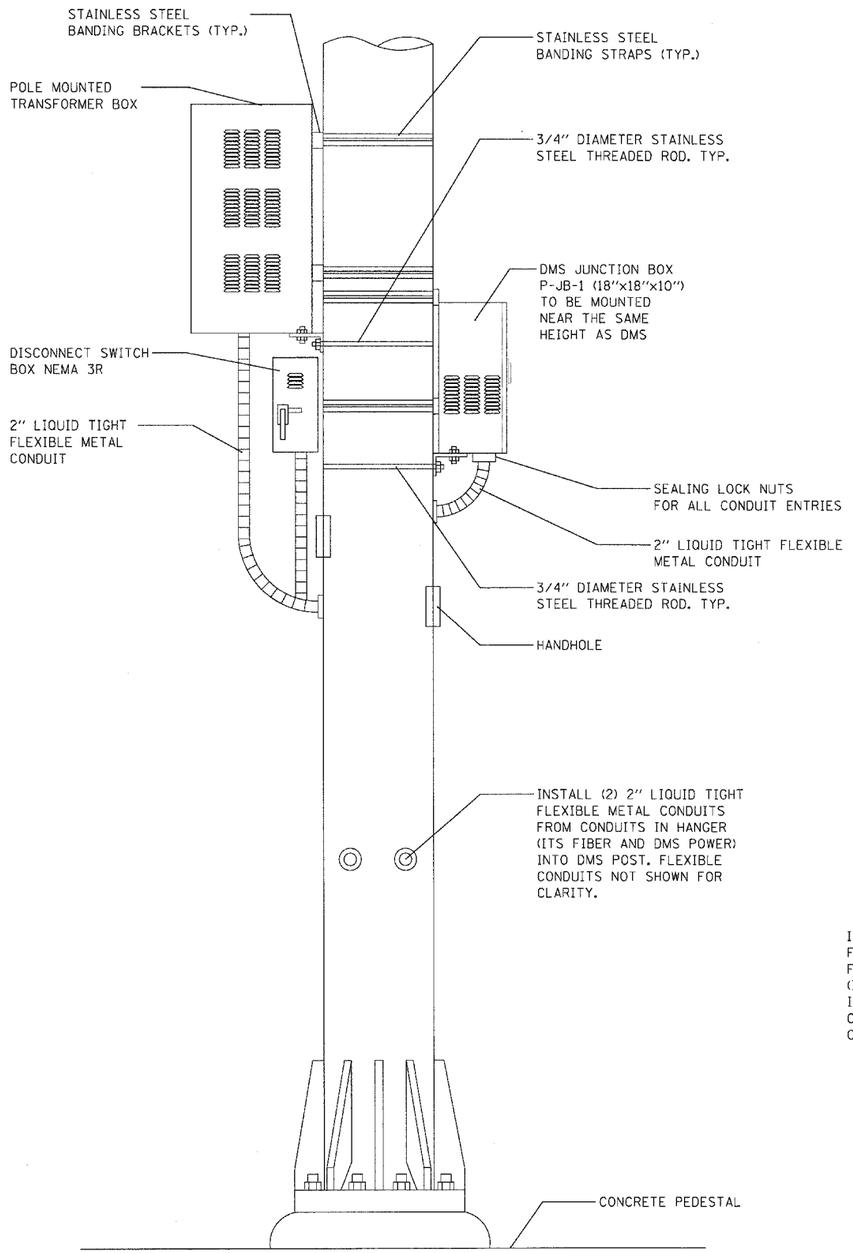
..\DBCONN-11-BORDERLDGN..\DBCONN-88-SIGNS3.DGN
10-19-2011 16:32:49 BONGHUJD \\FS-0944\AM\VAULT\D-TRANS.07\2282\28858-001\ARCH\CAD\ITS TECH SYS\CONN\SHEETS CONTRACT 11\DBCONN-11-SHT-TSPLANS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
		DRAWN - ARM	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

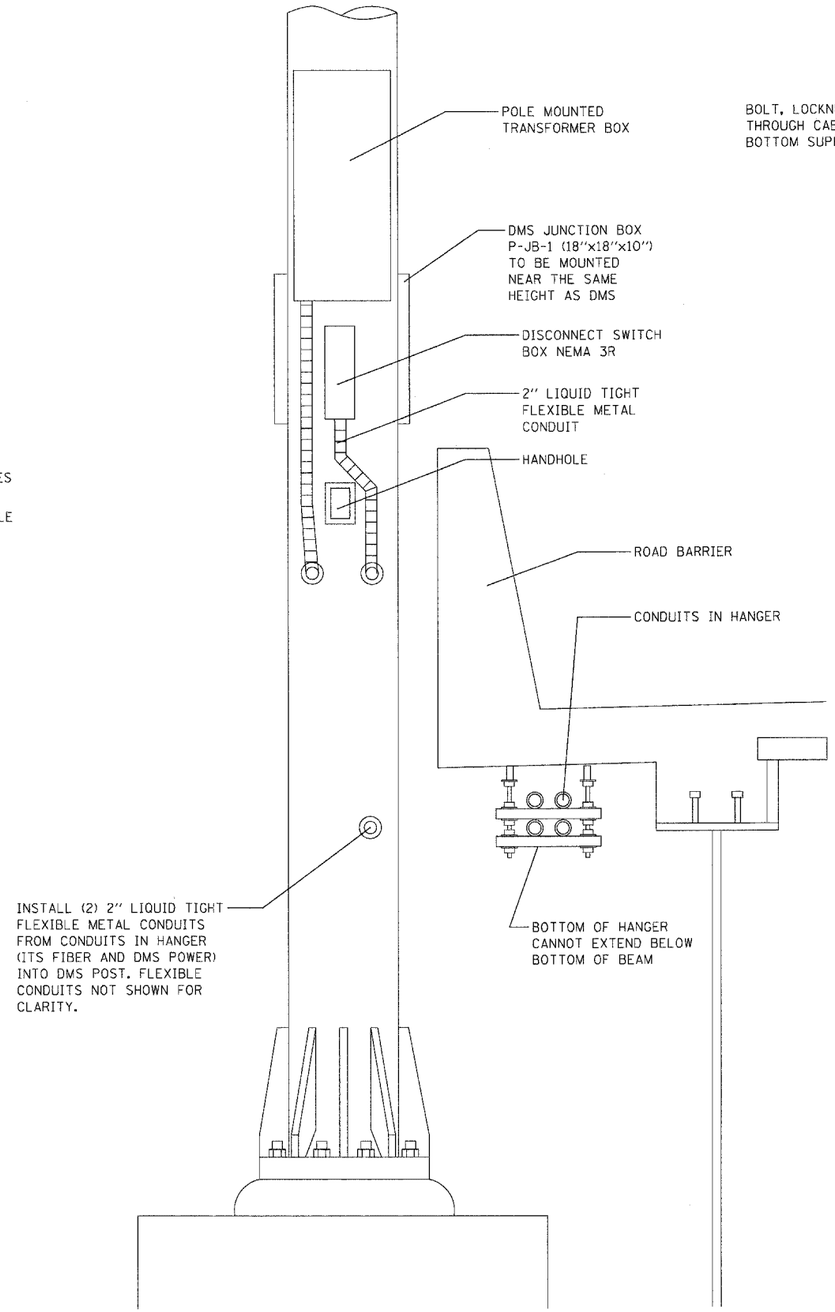
TRENCH FOR CONDUIT DETAILS & DMS GROUNDING DETAIL

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

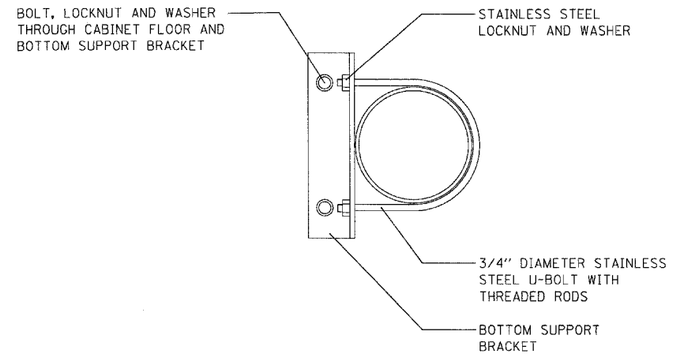
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	254
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CABINET DETAIL ON DMS STRUCTURE
FRONT VIEW

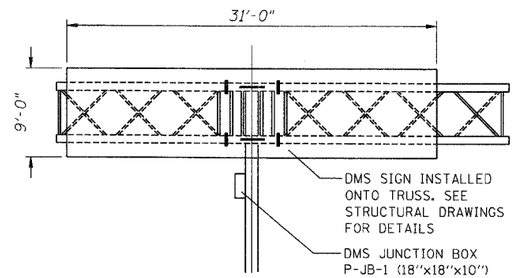


CABINET DETAIL ON DMS STRUCTURE
SIDE VIEW



TYPICAL BOTTOM SUPPORT
BRACKET DETAIL

DMS SIGN PLAN



DMS SIGN ELEVATION

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	
		DRAWN - ARM	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

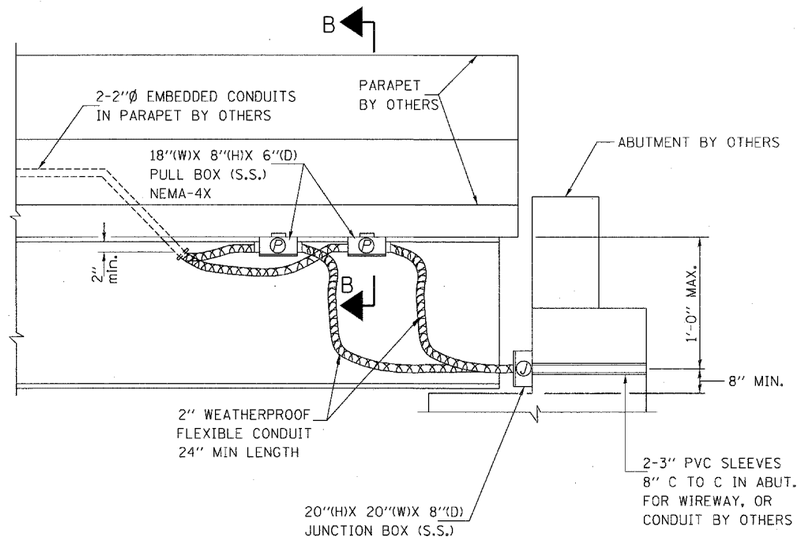
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

DMS SIGN
DETAIL FOR CABINET & POST

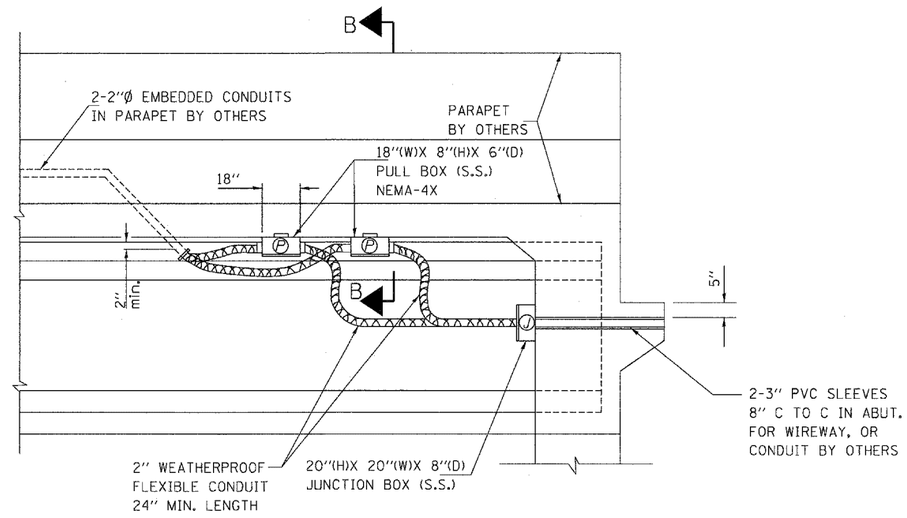
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	255
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



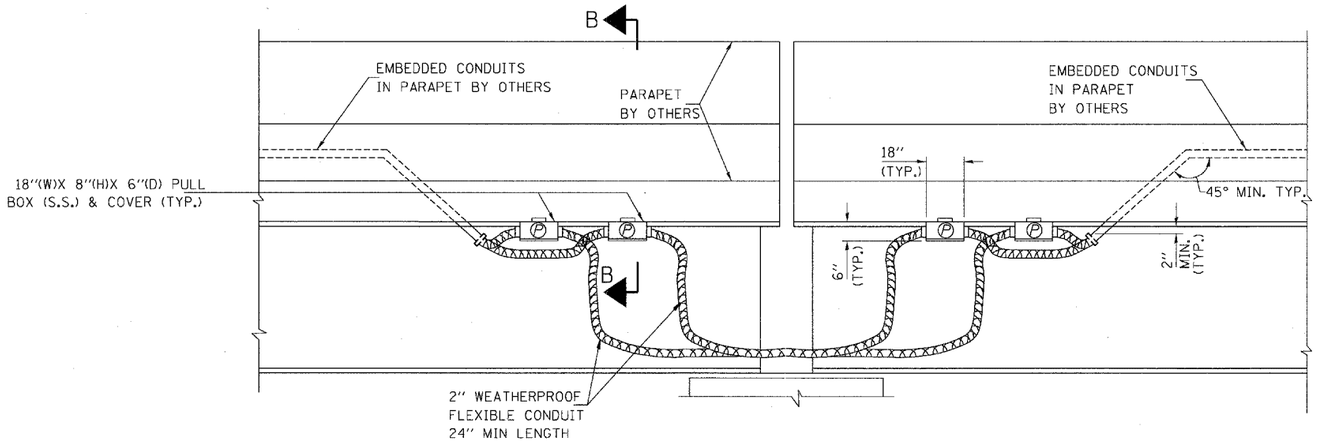
SECTION AT CONVENTIONAL ABUTMENTS

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING
JUNCTION BOX PAY ITEM (TYP.)



SECTION AT INTEGRAL ABUTMENTS

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING
JUNCTION BOX PAY ITEM (TYP.)



SECTION AT EXPANSION PIERS

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING
JUNCTION BOX PAY ITEM (TYP.)

LOCATION

TYPICAL DETAIL AT 1ST STREET BRIDGE

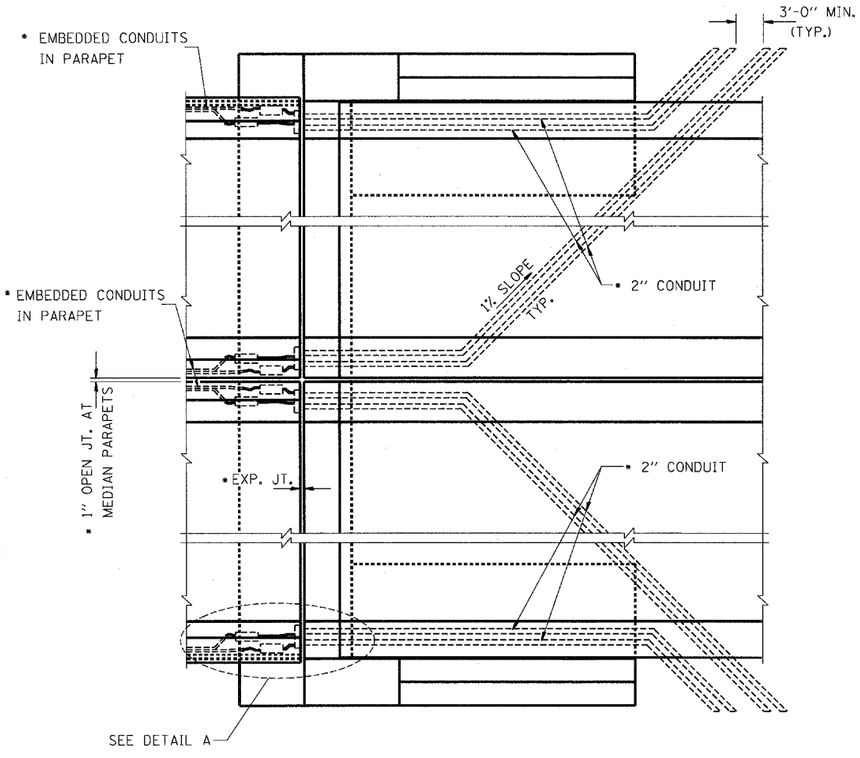
Ⓟ = PULL BOX
Ⓙ = JUNCTION BOX

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS**
		DRAWN - ARM	REVISED -	**DEPARTMENT OF TRANSPORTATION**
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

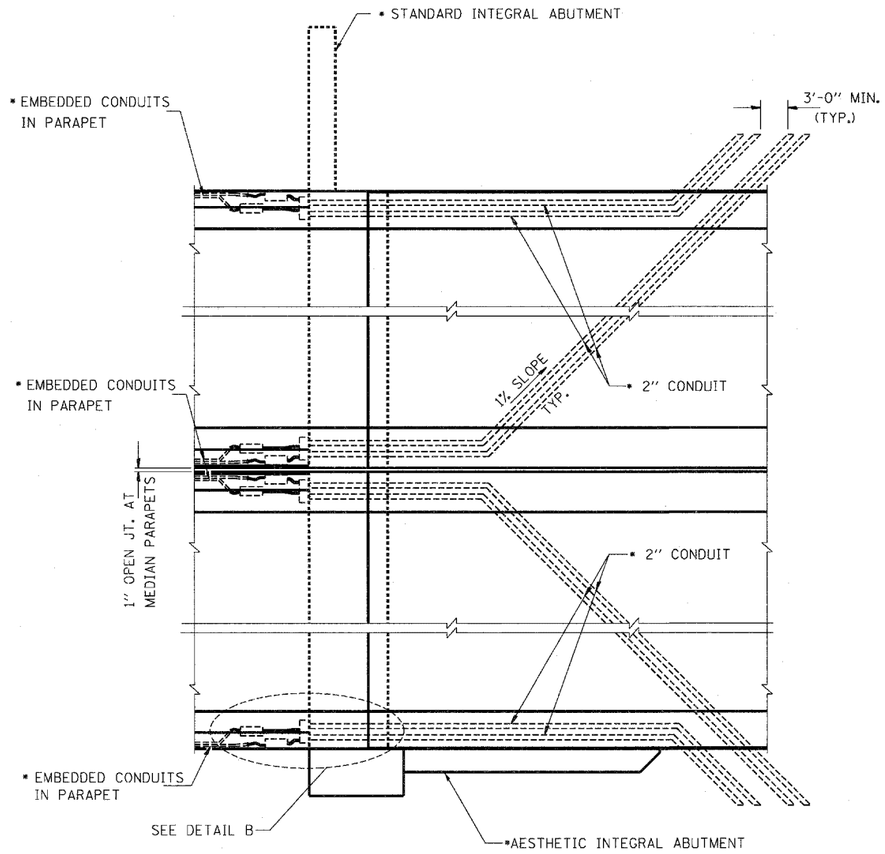
CONDUIT DETAILS 1

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

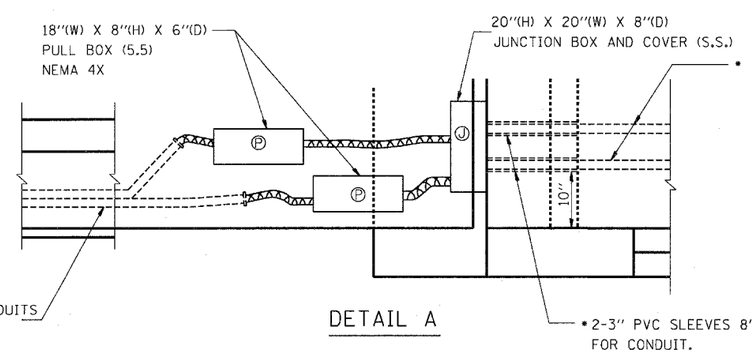
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	256
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN AT CONVENTIONAL ABUTMENTS

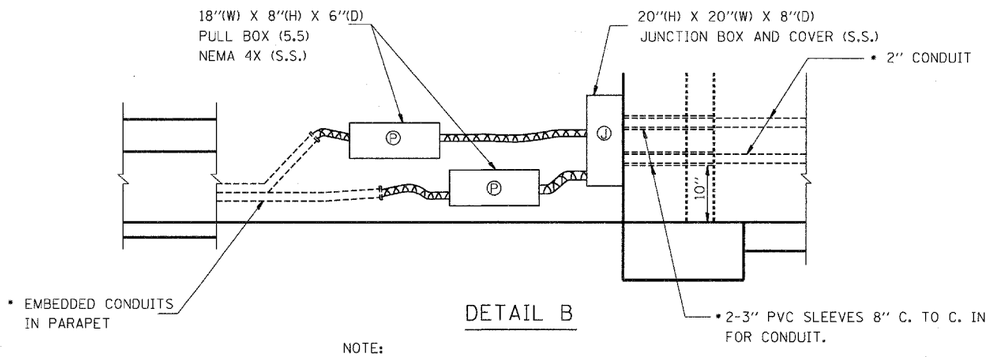


PLAN AT INTEGRAL ABUTMENTS



DETAIL A

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING JUNCTION BOX PAY ITEM (TYP.)



DETAIL B

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING JUNCTION BOX PAY ITEM (TYP.)

NOTES:

1. 2" PVCC SHALL HAVE MINIMUM BENDING RADIUS OF 10".
2. 2" FLEXIBLE CONDUIT SHALL BE 24" (MIN.) IN LENGTH. IT SHALL HAVE SUFFICIENT SLACK TO ALLOW DESIGNED DEFLECTION AND EXPANSION. THESE DIMENSIONS (SLACK) CAN BE OBTAINED FROM THE RESIDENT ENGINEER.
3. ALL JUNCTION BOXES AND PULL BOXES ATTACHED TO THE STRUCTURE SHALL BE STAINLESS STEEL NEMA 4X (PER ARTICLE 1088.04), SIZE AS SPECIFIED. THE DOOR SHALL HAVE A STAINLESS STEEL CONTINUOUS HINGE PIN AND CLAMP ASSEMBLY.
4. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAM, DECK OR SUPERSTRUCTURE OF THE BRIDGE OR WELD TO THE STRUCTURE UNLESS SPECIFIED BY THE ENGINEER.
5. THE MAXIMUM SPACING OF PULL BOXES SHALL BE 310'-0".
6. ALL JUNCTION BOXES SHALL HAVE A 1 1/2 "Ø WIRE MESH DRAIN IN THE BOTTOM.
7. ALL JUNCTION BOXES SHALL BE EQUIPPED WITH A PADLOCK.
8. LIQUID-TIGHT FLEXIBLE METAL CONDUIT WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICE FOR PULL BOX 18"X8"X6"

LOCATION

TYPICAL DETAIL AT 1ST STREET BRIDGE

* = BY OTHERS
Ⓟ = PULL BOX
Ⓙ = JUNCTION BOX

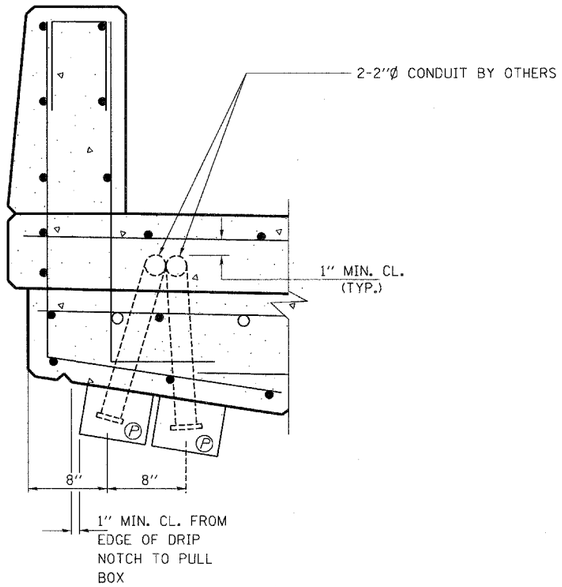
FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - KRR	REVISED -	
		DRAWN - ARM	REVISED -	
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = *SCALE*	CHECKED - KRR	REVISED -	
	PLOT DATE = *DATE*	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

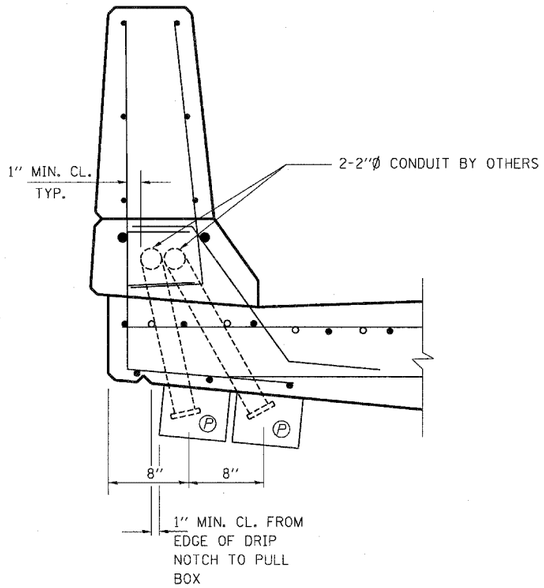
CONDUIT DETAILS 2

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

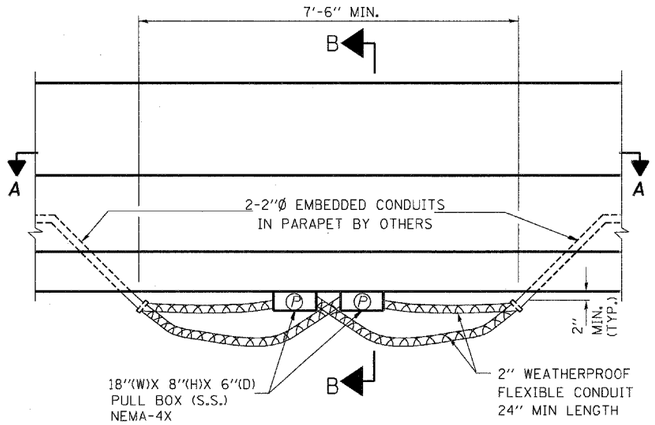
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	257
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



VIEW B-B
(WITH SIDEWALK)

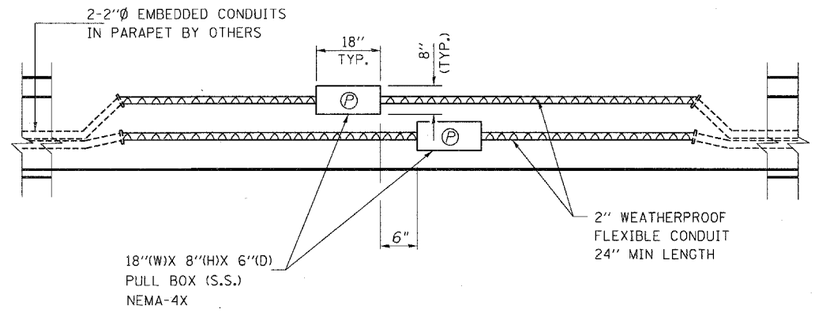


VIEW B-B
(WITHOUT SIDEWALK)



ELEVATION AT PULL BOX
(FOR BRIDGES 310' OR LONGER)

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING
JUNCTION BOX PAY ITEM (TYP.)



VIEW A-A

NOTE:
PULL BOX TO BE PAID FOR WITH CORRESPONDING
JUNCTION BOX PAY ITEM (TYP.)

(P) = PULL BOX
(J) = JUNCTION BOX

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -
		DRAWN - ARM	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE

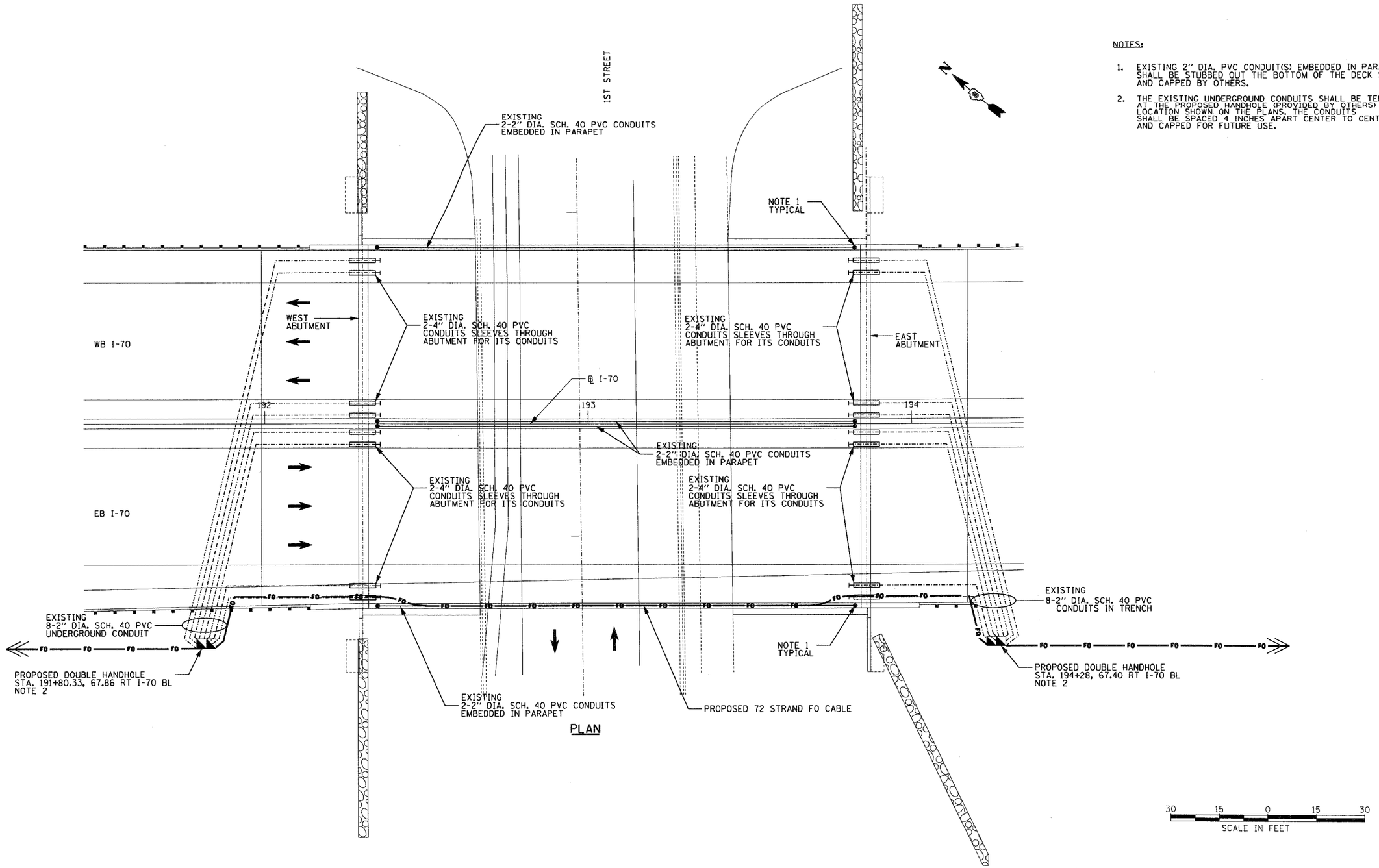
CONDUIT DETAILS 3

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	258
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES:

1. EXISTING 2" DIA. PVC CONDUIT(S) EMBEDDED IN PARAPET FOR ITS SHALL BE STUBBED OUT THE BOTTOM OF THE DECK SLAB AND CAPPED BY OTHERS.
2. THE EXISTING UNDERGROUND CONDUITS SHALL BE TERMINATED AT THE PROPOSED HANDHOLE (PROVIDED BY OTHERS) LOCATION SHOWN ON THE PLANS. THE CONDUITS SHALL BE SPACED 4 INCHES APART CENTER TO CENTER AND CAPPED FOR FUTURE USE.



PLAN

30 15 0 15 30
SCALE IN FEET

ME-03

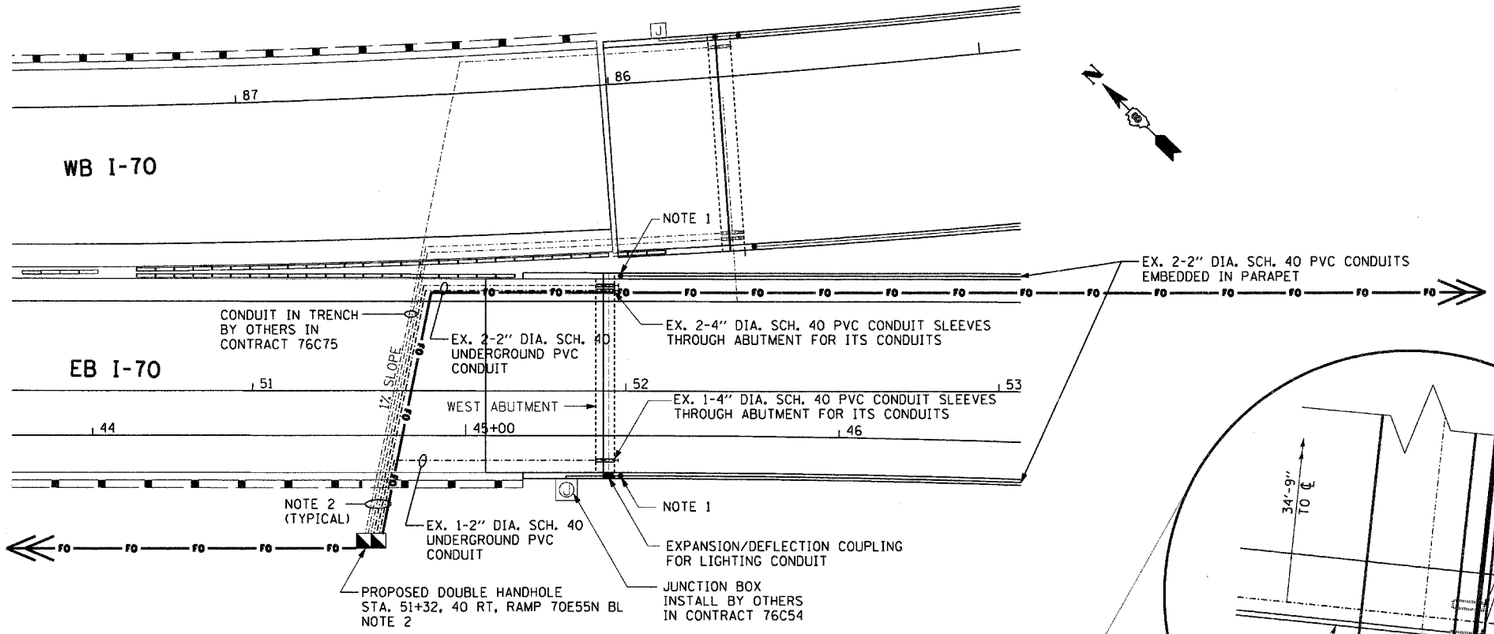
..\DBCONN-II-BORDERLDGN
10-19-2011,15:32:52 BONDHLDD \\FS-02044\DMVAULT\D-TRANS_07\2202\20868-001\ARCH\CAD\ITS TECH SYS\CONN\SHEETS CONTRACT II\DBCONN-II-SHT-TSPLAN7-ALDGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - ARM	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

CONDUIT EXISTING ITS PLAN (BY OTHERS 1)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

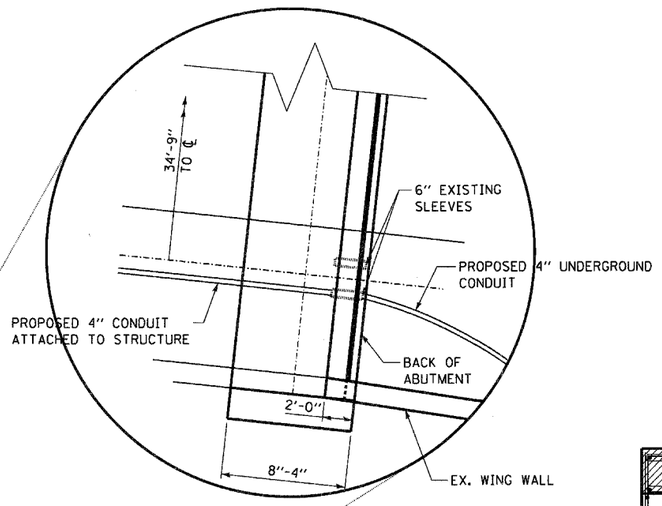
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	259
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

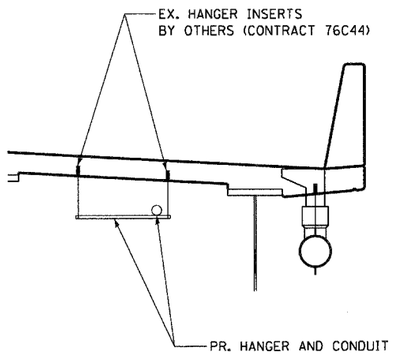


CONDUIT INSTALLATION PLAN - WEST ABUTMENT FOR STRUCTURE NO. 082-0322

NOTES:

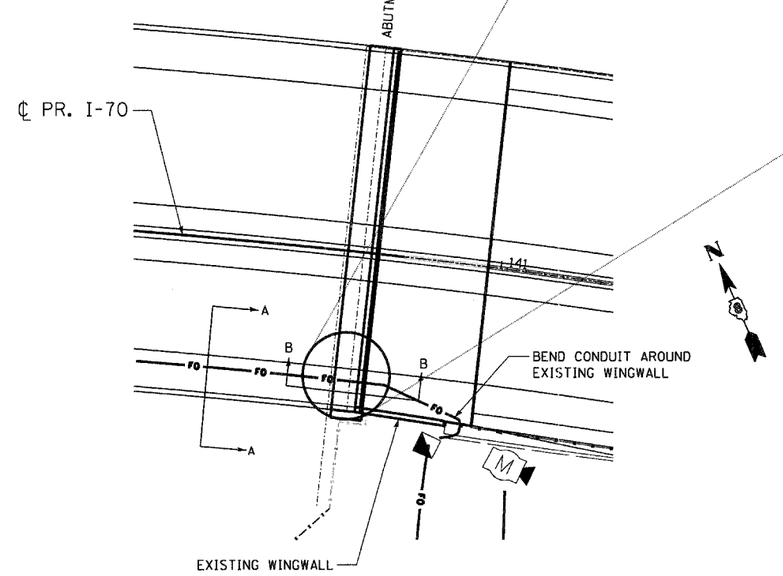
1. THE EXISTING 2" DIA. PVC CONDUIT EMBEDDED IN PARAPET FOR ITS SHALL BE STUBBED OUT THE BOTTOM OF THE DECK SLAB AND CAPPED BY OTHERS.
2. THE EXISTING UNDERGROUND CONDUITS SHALL BE TERMINATED AT THE FUTURE HANDHOLE (PROVIDED BY OTHERS) LOCATION SHOWN ON THE PLANS. THE CONDUITS SHALL BE SPACED 4 INCHES APART CENTER-TO-CENTER AND CAPPED FOR FUTURE USE.
3. CONTRACTOR SHALL TRENCH CAREFULLY AT THE LOCATIONS OF EXISTING MSE WALL STRAPS TO AVOID DAMAGING THE STRAPS. IF REQUIRED THE CONTRACTOR SHALL REMOVE THE MSE WALL STRAPS DURING TRENCHING AND REPLACE DURING BACKFILL OPPERATION. THIS WORK IS INCLUDED IN THE COST OF CONDUIT IN TRENCH, 4" DIA., PVC TYPE C.



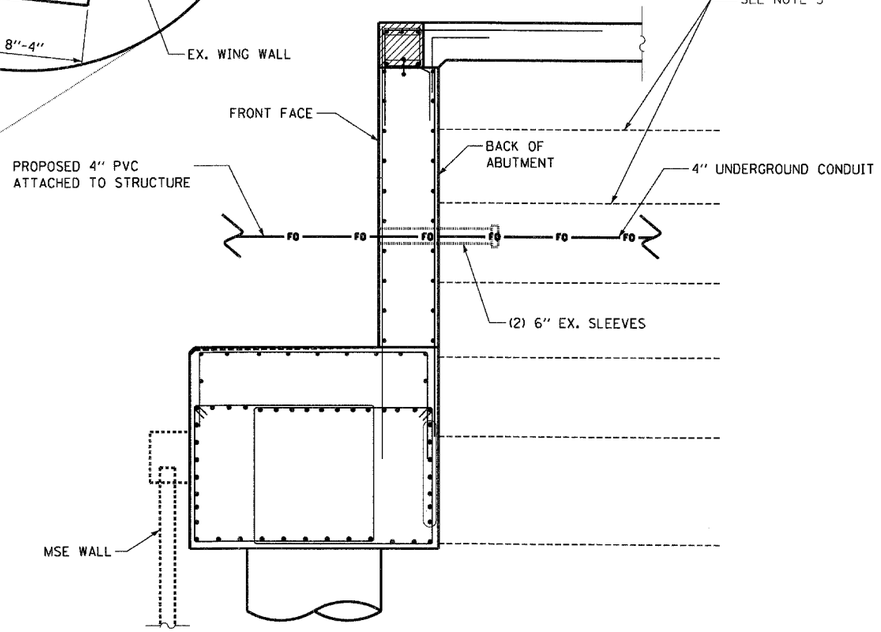


SECTION A-A

NOTE:
CABLE HANGERS INCLUDED IN THE COST OF CONDUIT ATTACHED TO STRUCTURE, 4" DIA. TYPE C



CONDUIT INSTALLATION PLAN - EAST ABUTMENT FOR STRUCTURE NO. 082-0319



SECTION B-B

ME-04

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - KRR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENT CONDUIT INSTALLATION PLANS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - ARM	REVISED -	PROPOSED RELOCATED IL ROUTE 3 INTERCHANGE		998	82-2-1K	ST. CLAIR	353	260
	PLOT SCALE = $SCALE$	CHECKED - KRR	REVISED -					CONTRACT NO. 76E06		
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. NEW WIRE IN THE POLE, SPLICES, FUSES, FUSEHOLDER AND SURGE PROTECTORS SHALL BE PROVIDED AND INSTALLED FOR ALL LUMINAIRES BEING INSTALLED. THIS WORK SHALL BE INCLUDED IN THE COST OF THE LUMINAIRE.
2. ALL LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, ARTICLE 1069.06. LIGHTING UNIT NUMBERS, WATTAGE, AND VOLTAGE SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
3. ALL MEASUREMENTS FOR ATTACHMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND FABRICATE TO FIT.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
5. THE EQUIPMENT GROUNDING CONDUCTOR (GREEN GROUND) MUST BE CONTINUOUS THROUGHOUT EACH CIRCUIT.
6. EACH CABLE SHALL BE UNIQUELY MARKED FOR IDENTIFICATION IN ORDER TO DISTINGUISH BETWEEN CIRCUITS AND INDIVIDUAL CABLES WITHIN A CIRCUIT. MARKERS SHALL BE VISIBLE AT ALL POINTS OF ENTRY, SUCH AS JUNCTION BOXES, PULL BOXES, HANDHOLES, ETC.
7. EXCEPT FOR WIRES AND/OR CABLES ON STRUCTURE, OR CROSSING BENEATH PAVED AREAS, WIRES AND CABLES BETWEEN POLES OR BOXES SHALL BE DIRECT BURIED.

GROUND MOUNTED POLE NOTES

1. AFTER NEW CABLE IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "LIGHT POLE FOUNDATION."

LEGEND

PROPOSED ELECTRIC SERVICE INSTALLATION

LIGHT POLE, ALUMINUM TRANSFORMER BASE MOUNTED, 45 FT. M.H., 15 FT. MAST ARM, LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT AND 15" BOLT CIRCLE, 30" DIA. CONCRETE FOUNDATION

LIGHT POLE, ALUMINUM POLE BASE MOUNTED, 45 FT. M.H., 15 FT. MAST ARM, LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT AND 15" BOLT CIRCLE, INSTALL ON EXISTING 30" DIA. CONCRETE FOUNDATION

PROPOSED LIGHTING CONTROLLER

(A) PROPOSED UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.

(B) PROPOSED ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO.6

(C) PROPOSED ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE USE) 3-1/C NO.6

(D) PROPOSED UNDERGROUND CONDUIT, 2 1/2" DIAMETER GALVANIZED STEEL

(E) EXISTING CONDUIT UNDER PAVEMENT, 2 1/2" DIAMETER, PVC

(F) EXISTING CONDUIT EMBEDDED IN PARAPET WALL, 2 - 2" DIAMETER, PVC

(J) EXISTING JUNCTION BOX, STAINLESS STEEL, ATTACHED TO OR EMBEDDED IN STRUCTURE

EXISTING UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR

— L — PROPOSED ELECTRICAL BURIED CABLE

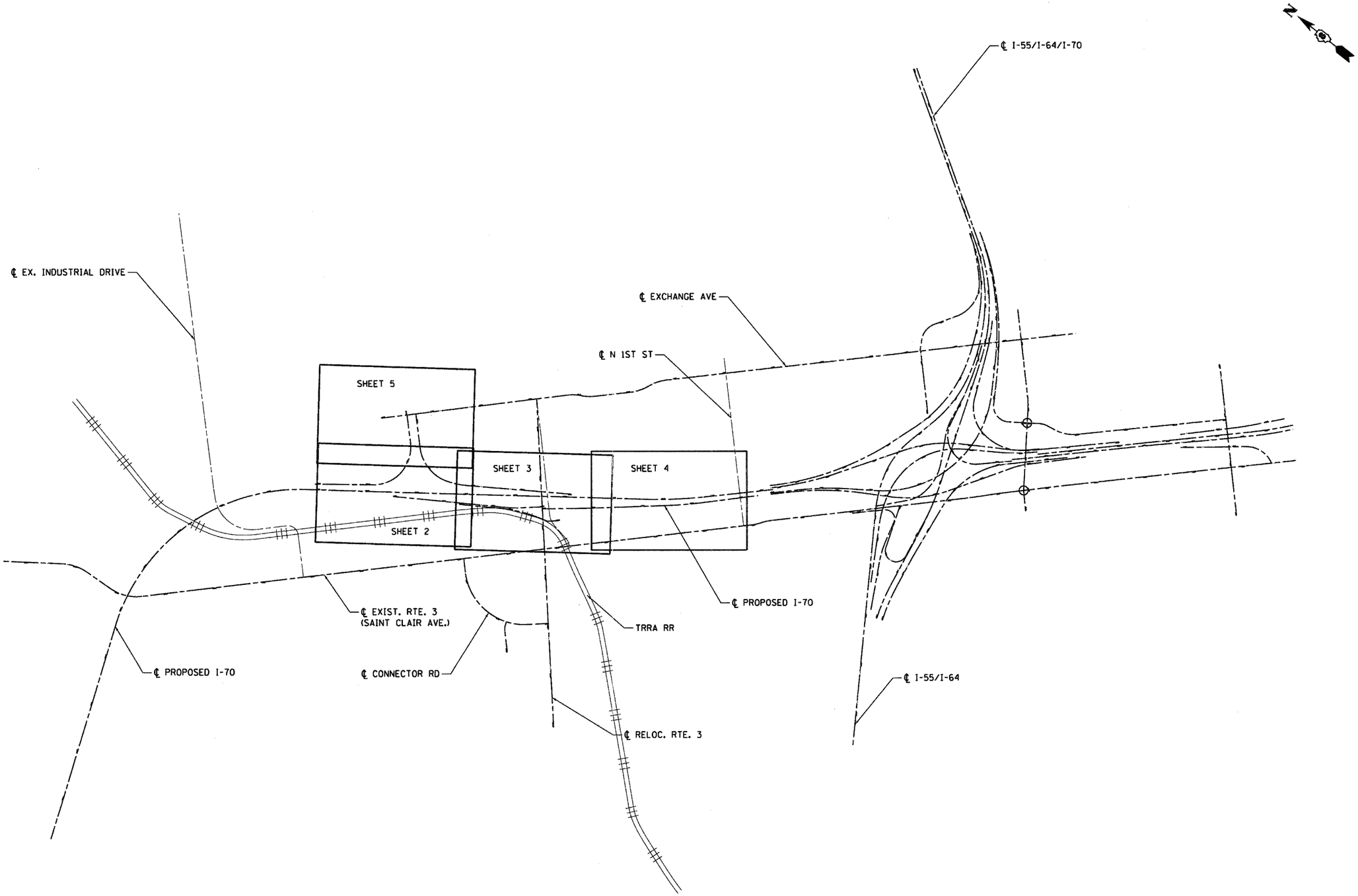
$$$$ref_list_name$$$$ $$$$date_time$$$$ $$user$$ $$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - AAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		DRAWN - MNR	REVISED -	I-70 CONNECTION
ABNA engineering	PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

LIGHTING NOTES & LEGEND

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	261
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



$$$$-pf_list_name$$$$ $$$$data_time$$$$ $$user-66 $$$$design_name$$$$

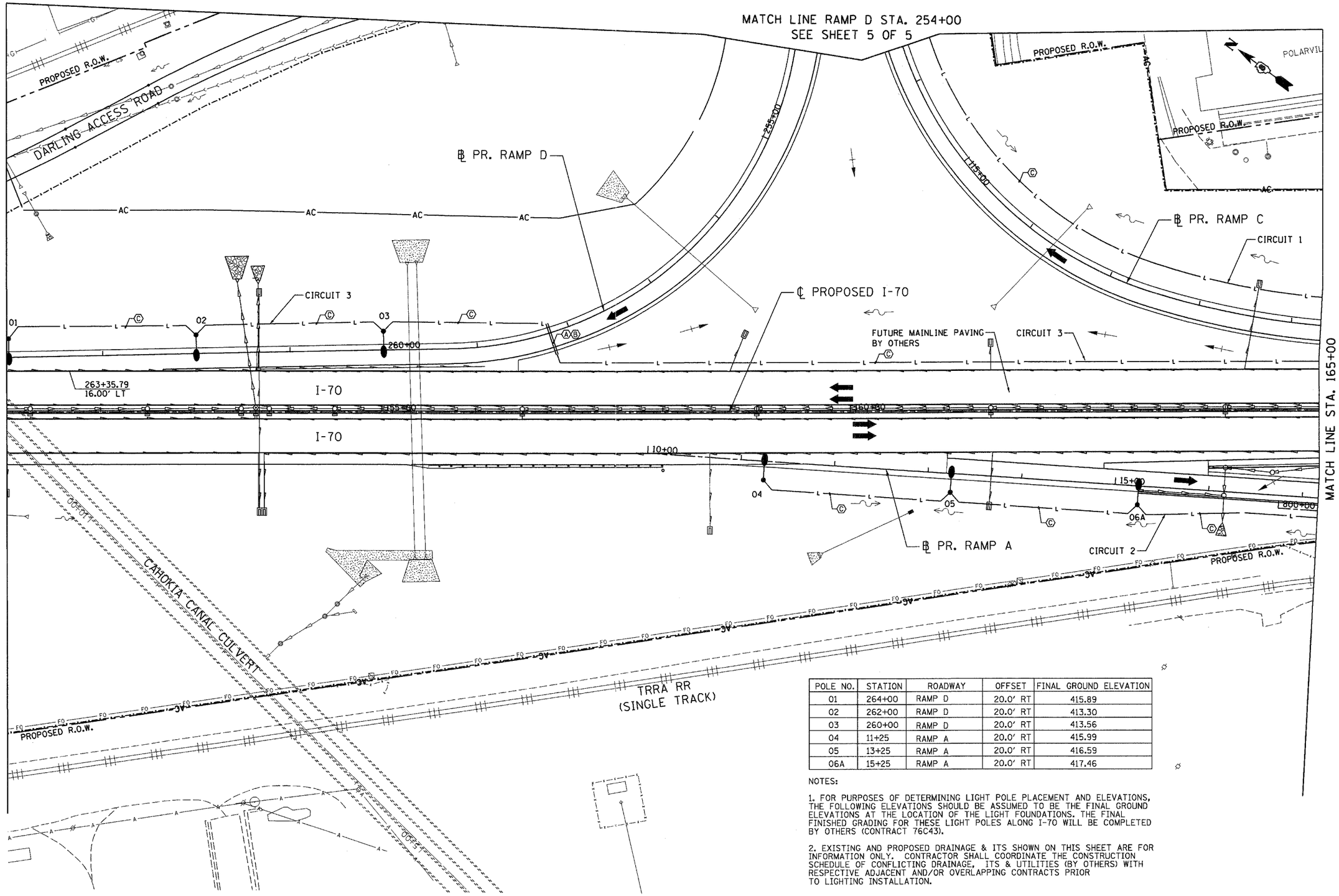
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - AAB	REVISED -	
		DRAWN - MNR	REVISED -	
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -	
ABNA engineering	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

LIGHTING KEYMAP LAYOUT

SCALE: 1"=500' | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	262
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



POLE NO.	STATION	ROADWAY	OFFSET	FINAL GROUND ELEVATION
01	264+00	RAMP D	20.0' RT	415.89
02	262+00	RAMP D	20.0' RT	413.30
03	260+00	RAMP D	20.0' RT	413.56
04	11+25	RAMP A	20.0' RT	415.99
05	13+25	RAMP A	20.0' RT	416.59
06A	15+25	RAMP A	20.0' RT	417.46

NOTES:

1. FOR PURPOSES OF DETERMINING LIGHT POLE PLACEMENT AND ELEVATIONS, THE FOLLOWING ELEVATIONS SHOULD BE ASSUMED TO BE THE FINAL GROUND ELEVATIONS AT THE LOCATION OF THE LIGHT FOUNDATIONS. THE FINAL FINISHED GRADING FOR THESE LIGHT POLES ALONG I-70 WILL BE COMPLETED BY OTHERS (CONTRACT 76C43).

2. EXISTING AND PROPOSED DRAINAGE & ITS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE OF CONFLICTING DRAINAGE, ITS & UTILITIES (BY OTHERS) WITH RESPECTIVE ADJACENT AND/OR OVERLAPPING CONTRACTS PRIOR TO LIGHTING INSTALLATION.

FILE NAME = $FILE$

ABNA ENGINEERING INC.
PROFESSIONAL ENGINEERS
EAST ST. LOUIS, ILLINOIS

ABNA engineering

USER NAME = $USER$	DESIGNED - AAB	REVISED -
	DRAWN - MNR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -
PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

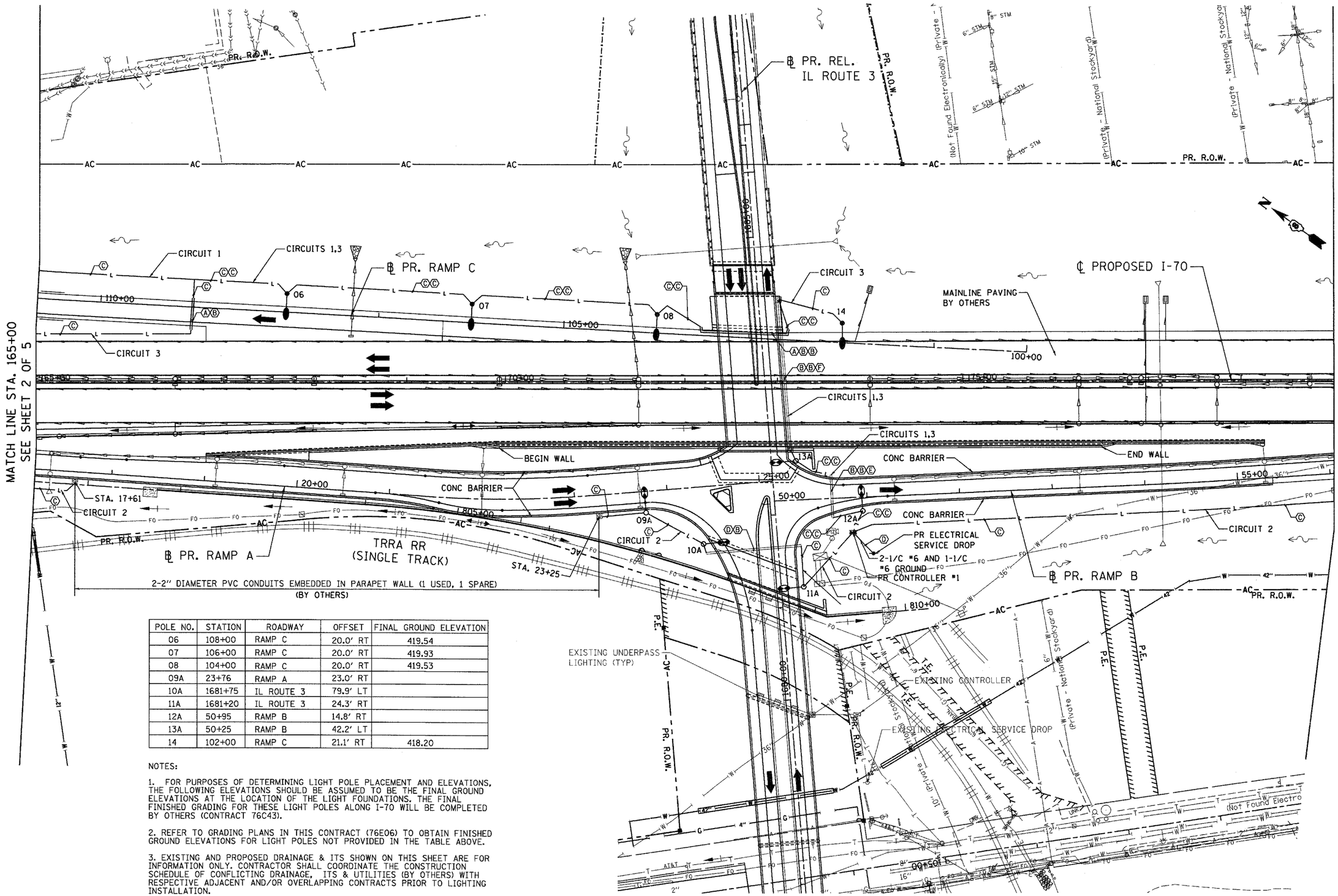
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70
LIGHTING PLANS
STA. 151+00 TO STA. 165+00

SCALE: 1"=50' | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	263
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$$$$prof_list_name$$$$ $$$$date_time$$$$ $$$$user$$$$ $$$$design_name$$$$



POLE NO.	STATION	ROADWAY	OFFSET	FINAL GROUND ELEVATION
06	108+00	RAMP C	20.0' RT	419.54
07	106+00	RAMP C	20.0' RT	419.93
08	104+00	RAMP C	20.0' RT	419.53
09A	23+76	RAMP A	23.0' RT	
10A	1681+75	IL ROUTE 3	79.9' LT	
11A	1681+20	IL ROUTE 3	24.3' RT	
12A	50+95	RAMP B	14.8' RT	
13A	50+25	RAMP B	42.2' LT	
14	102+00	RAMP C	21.1' RT	418.20

NOTES:

1. FOR PURPOSES OF DETERMINING LIGHT POLE PLACEMENT AND ELEVATIONS, THE FOLLOWING ELEVATIONS SHOULD BE ASSUMED TO BE THE FINAL GROUND ELEVATIONS AT THE LOCATION OF THE LIGHT FOUNDATIONS. THE FINAL FINISHED GRADING FOR THESE LIGHT POLES ALONG I-70 WILL BE COMPLETED BY OTHERS (CONTRACT 76C43).

2. REFER TO GRADING PLANS IN THIS CONTRACT (76E06) TO OBTAIN FINISHED GROUND ELEVATIONS FOR LIGHT POLES NOT PROVIDED IN THE TABLE ABOVE.

3. EXISTING AND PROPOSED DRAINAGE & ITS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE OF CONFLICTING DRAINAGE, ITS & UTILITIES (BY OTHERS) WITH RESPECTIVE ADJACENT AND/OR OVERLAPPING CONTRACTS PRIOR TO LIGHTING INSTALLATION.

$$$$ref_list_name$$$$
$$$$data_tune$$$$ $$$$dgn_name$$$$

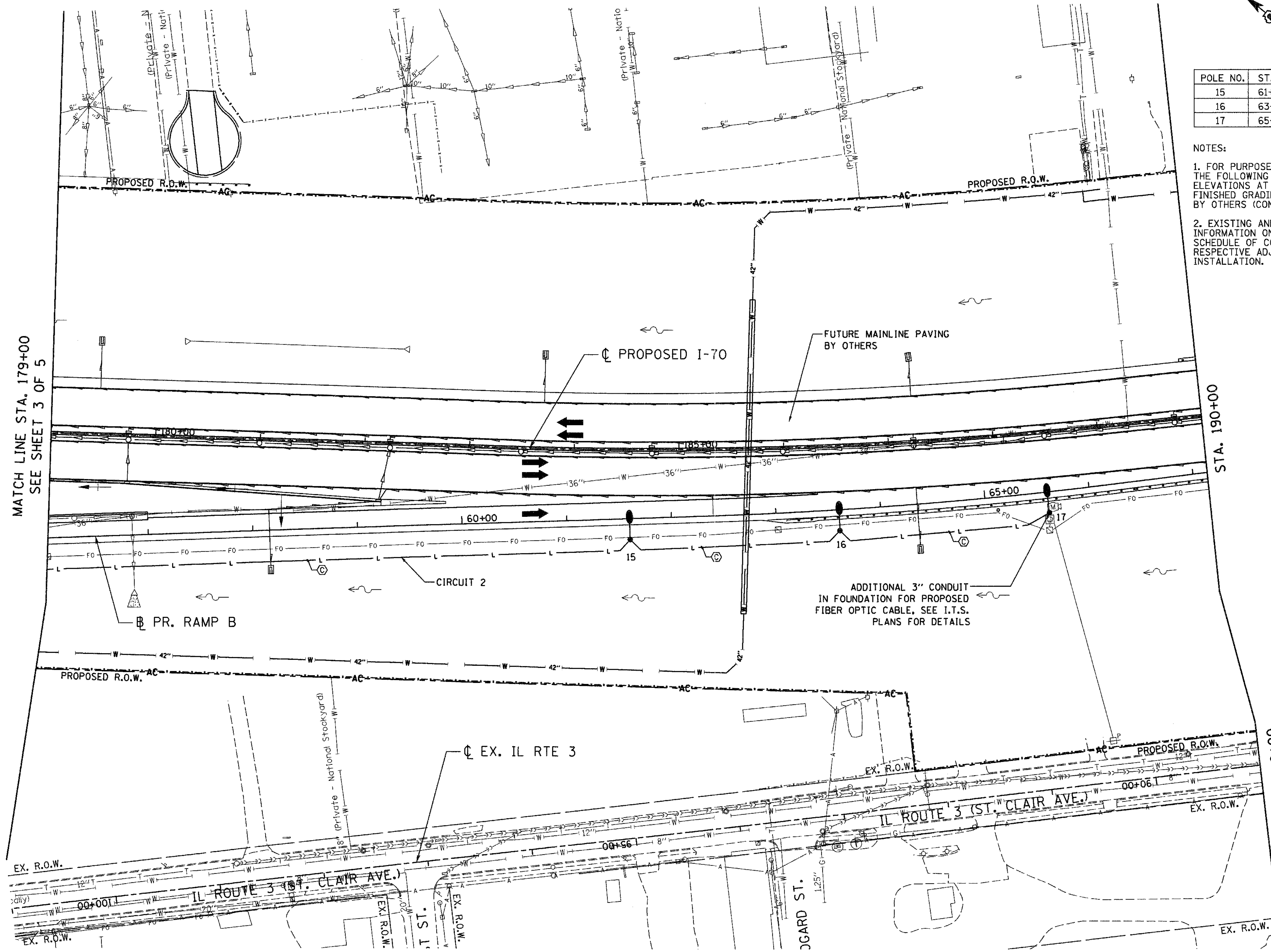
FILE NAME = #FILE1#	USER NAME = #USER#	DESIGNED - AAB	REVISED -	
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		DRAWN - MNR	REVISED -	
ABNA engineering	PLOT SCALE = #SCALE#	CHECKED - JL	REVISED -	
	PLOT DATE = #DATE#	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70
LIGHTING PLAN
STA. 165+00 TO STA. 179+00

SCALE: 1"=50' | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	264
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



POLE NO.	STATION	ROADWAY	OFFSET	FINAL GROUND ELEVATION
15	61+60	RAMP B	20.0' RT	427.09
16	63+60	RAMP B	20.0' RT	431.04
17	65+60	RAMP B	20.0' RT	435.05

NOTES:

1. FOR PURPOSES OF DETERMINING LIGHT POLE PLACEMENT AND ELEVATIONS, THE FOLLOWING ELEVATIONS SHOULD BE ASSUMED TO BE THE FINAL GROUND ELEVATIONS AT THE LOCATION OF THE LIGHT FOUNDATIONS. THE FINAL FINISHED GRADING FOR THESE LIGHT POLES ALONG I-70 WILL BE COMPLETED BY OTHERS (CONTRACT 76C43).

2. EXISTING AND PROPOSED DRAINAGE & ITS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE OF CONFLICTING DRAINAGE, ITS & UTILITIES (BY OTHERS) WITH RESPECTIVE ADJACENT AND/OR OVERLAPPING CONTRACTS PRIOR TO LIGHTING INSTALLATION.

$$$$ref_list_name$$$$ $$$$date_time$$$$ $$user$$ $$$$$$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$$$

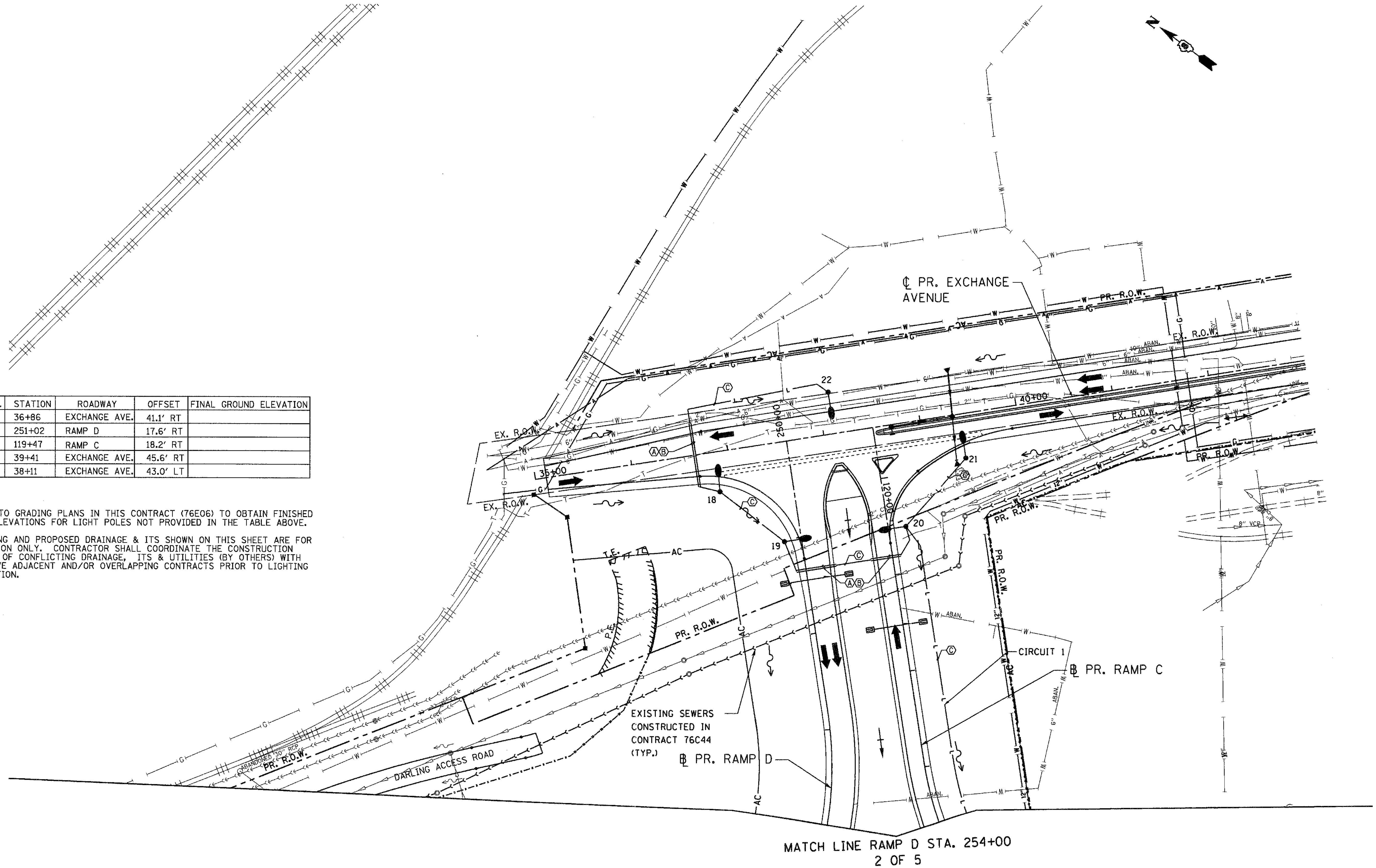
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - AAB	REVISED -
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		DRAWN - MNR	REVISED -
ABNA engineering	PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED I-70
LIGHTING PLAN
STA. 179+00 TO STA. 190+00

SCALE: 1"=50' | SHEET NO. 4 OF 5 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	265
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



POLE NO.	STATION	ROADWAY	OFFSET	FINAL GROUND ELEVATION
18	36+86	EXCHANGE AVE.	41.1′ RT	
19	251+02	RAMP D	17.6′ RT	
20	119+47	RAMP C	18.2′ RT	
21	39+41	EXCHANGE AVE.	45.6′ RT	
22	38+11	EXCHANGE AVE.	43.0′ LT	

NOTES:

1. REFER TO GRADING PLANS IN THIS CONTRACT (76E06) TO OBTAIN FINISHED GROUND ELEVATIONS FOR LIGHT POLES NOT PROVIDED IN THE TABLE ABOVE.

2. EXISTING AND PROPOSED DRAINAGE & ITS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE OF CONFLICTING DRAINAGE, ITS & UTILITIES (BY OTHERS) WITH RESPECTIVE ADJACENT AND/OR OVERLAPPING CONTRACTS PRIOR TO LIGHTING INSTALLATION.

$$$$ref_list_name$$$$ $$$$date_time$$$$ $$user$$ $$$$$$$$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$$$$$

FILE NAME = $FILEL$	ABNA engineering	USER NAME = $USER$	DESIGNED - AAB	REVISED -
			DRAWN - MNR	REVISED -
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -
		PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

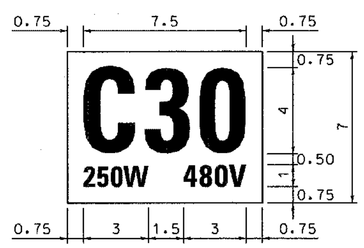
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

PROPOSED EXCHANGE AVENUE
LIGHTING PLAN
STA. 35+00 TO STA. 43+00

SCALE: 1"=50′ | SHEET NO. 5 OF 5 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	266
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NO BORDER, BLACK ON WHITE;
[C30] C 52Ø SPACING; [250W] C; [480V] C.

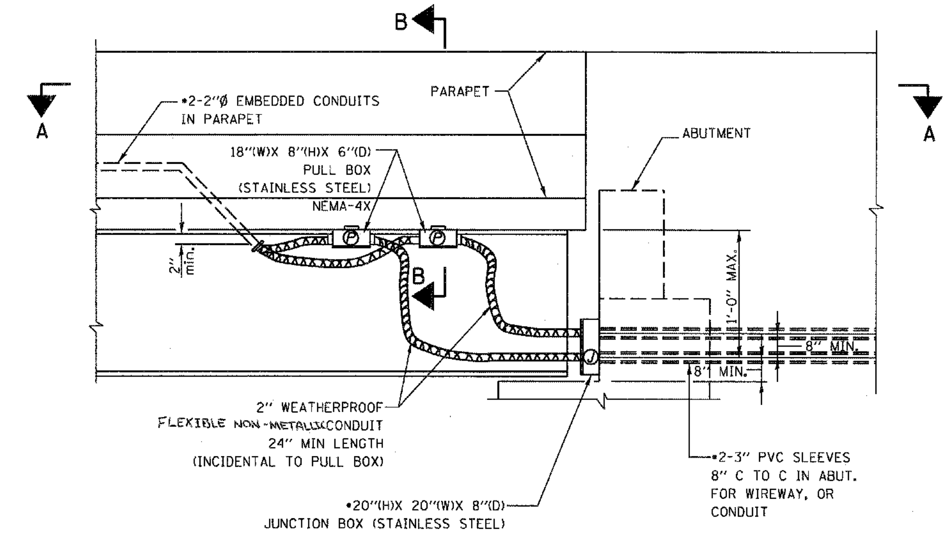


THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION OF EACH NEW LIGHT POLE, AS SHOWN ABOVE, AND CONFORMING TO THE REQUIREMENTS OF SECTION 830 AND ARTICLE 1069.06 OF THE STANDARD SPECIFICATIONS.

THE LIGHT POLE IDENTIFICATION PANEL SHALL BE MOUNTED, APPROXIMATEY 7 FT. ABOVE THE ADJACENT PAVEMENT GRADE, VISIBLE TO APPROACHING TRAFFIC.

LIGHT POLE IDENTIFICATION

N.T.S.

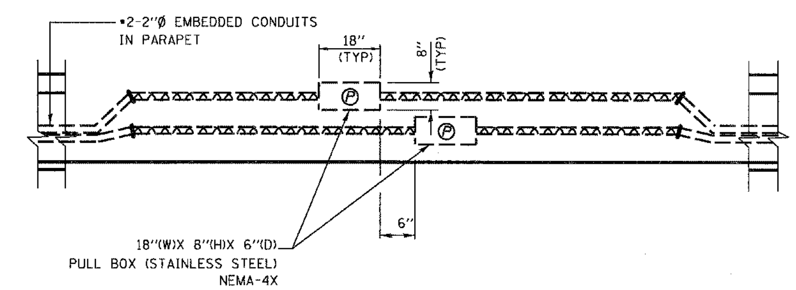


SECTION AT CONVENTIONAL ABUTMENTS

•BY OTHERS

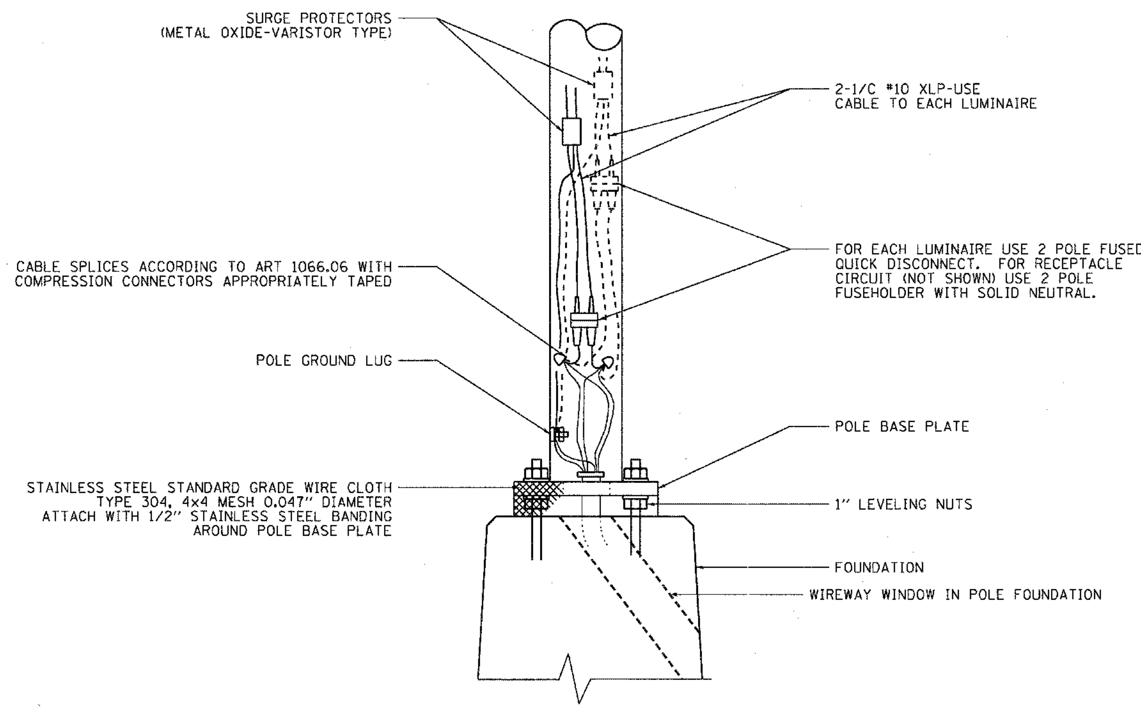
N.T.S.

NOTE: PULLBOX TO BE PAID FOR WITH CORRESPONDING JUNCTION BOX PAY ITEM (TYP.)



VIEW A-A

N.T.S.

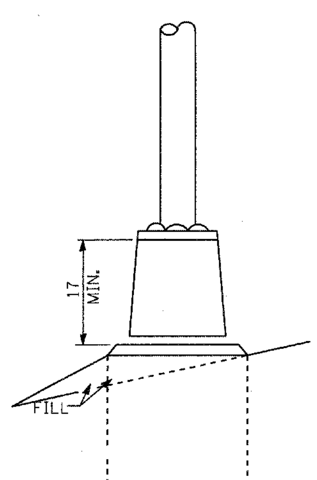


POLE BASE WIRING DETAIL

N.T.S.

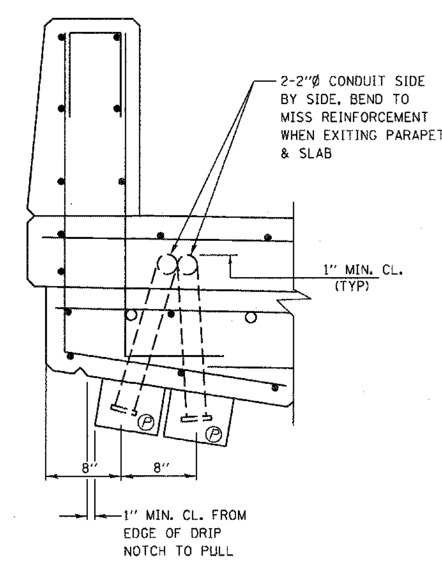
NOTES:

1. ALL TAPED SPLICES SHALL USE 2 LAYERS OF ELECTRIC TAPE AND 3 LAYERS OF RUBBER TAPE AS REQUIRED BY THE STANDARD SPECIFICATIONS. COAT THE FINISHED TAPED SPLICE WITH BONDING COMPOUND.
2. ALL CABLE SPLICES SHALL BE TAPED UNLESS ANOTHER METHOD HAS BEEN SPECIFICALLY APPROVED BY THE ENGINEER.



TRANSFORMER BASE MOUNTED ON FOUNDATION DETAIL

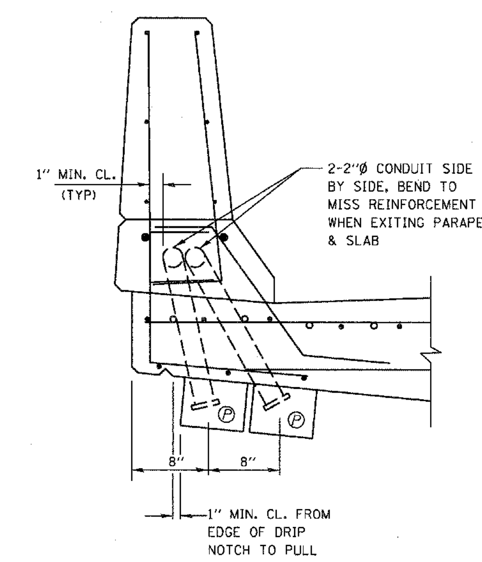
N.T.S.



VIEW B-B

(WITH SIDEWALK)

N.T.S.



VIEW B-B

(WITHOUT SIDEWALK)

N.T.S.

FILE NAME = $FILEL$	ABNA engineering	USER NAME = $USER$	DESIGNED - AAB	REVISED -
			DRAWN - MNR	REVISED -
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -
		PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

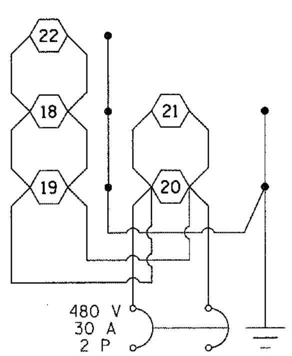
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

LIGHTING DETAILS

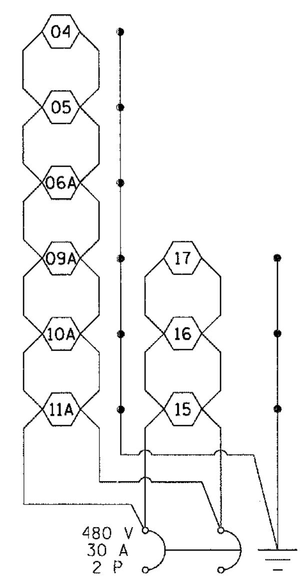
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	267
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

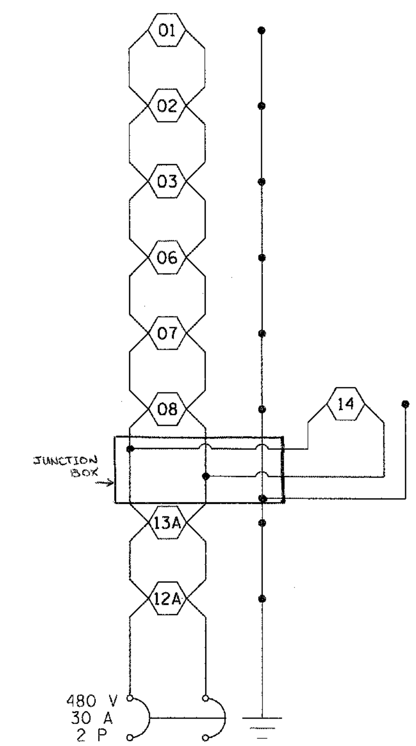
$$$$ref_list_name$$$$ $$$$date_time$$$$ $$user$$ $$$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$$$$



CIRCUIT 1



CIRCUIT 2



CIRCUIT 3

NEW CONTROLLER #1 WIRING DIAGRAM

FILE NAME =		USER NAME = $USER$	DESIGNED - AAB	REVISED -
$FILEL$			DRAWN - MNR	REVISED -
	ABNA engineering	PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

CONTROLLER WIRING DIAGRAMS

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	268
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE

I-70 IL RELOCATED RTE 3 INTERCHANGE POLE MOUNTED LUMINAIRES

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width (Ramps)	16 FT
	Number of Lanes (Ramps)	1
	Median Width	N/A
	IES Surface Classification	R3
	Q-Zero Value	0.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Pole Set-Back from Edge of Pavement	20 FT
	Aiming Angle	N/A
	Arm Length	15 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	M
	IES Control Distribution	FC
	IES Lateral Distribution	3 (III)
	Total Light Loss Factor	0.7
LAYOUT DATA:	Spacing	200 FT
	Configuration	SINGLE SIDED
	Luminaire Overhang Over Edge of Pavement Lane	-5 FT

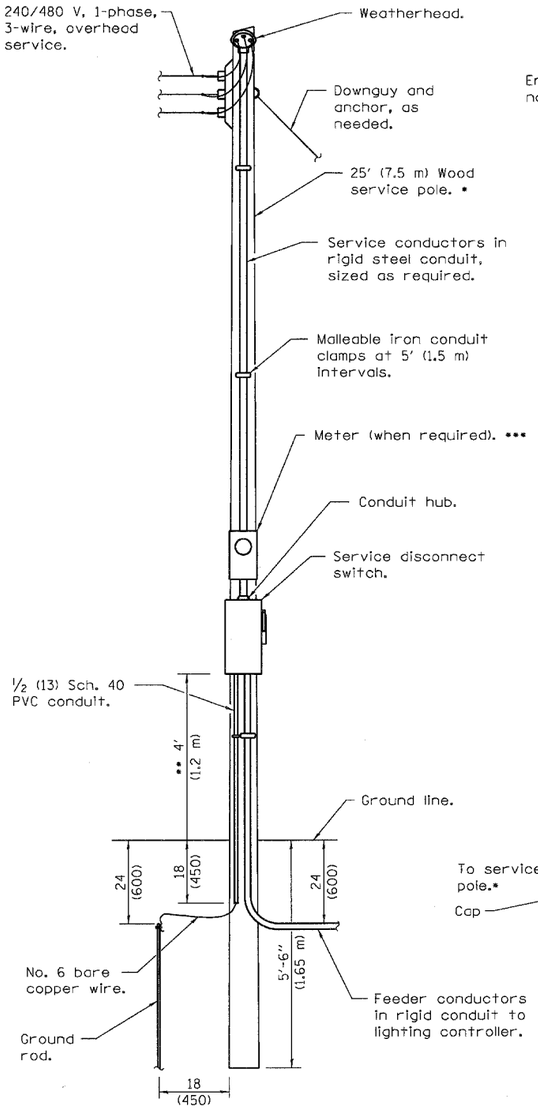
NOTE: Variations from the above specified IES distribution pattern may be requested and accepted of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

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

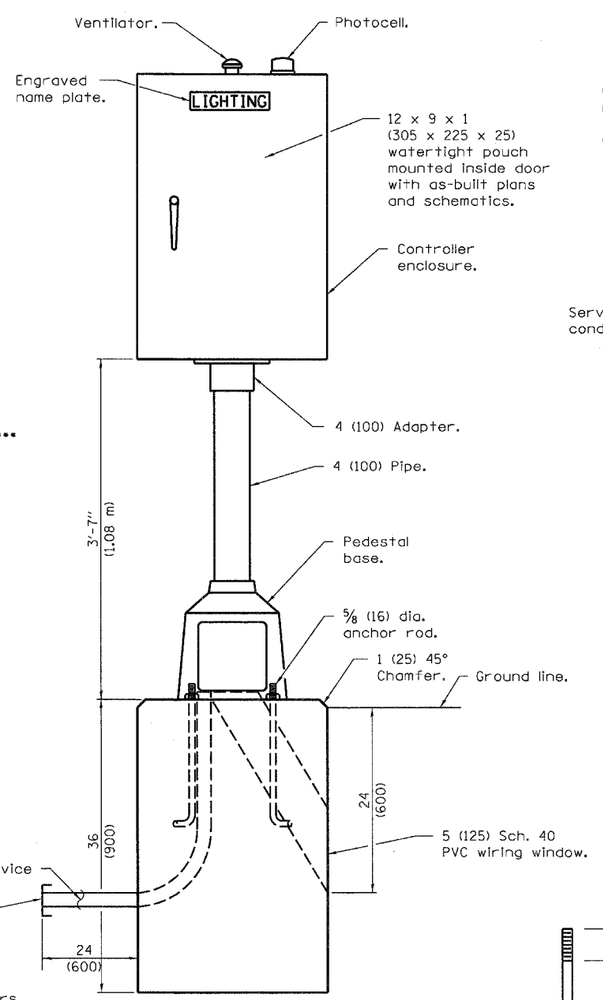
ILLUMINATION:	Average Horizontal Illumination,	(E_{Ave})	0.6 FC
	Uniformity Ratio,	(E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance:	(L_{Ave})	0.4
	Uniformity Ratios:	(L_{Ave}/L_{Min})	3.5
		(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio:	(L_V/L_{Ave})	0.3

$$$ref_list_name$$$
$$$$date_time$$$$ $$user$$ $$$$$$$$$$$$$$$$$$$dgn_name$$$$$$$$$$$$$$$$$$$$

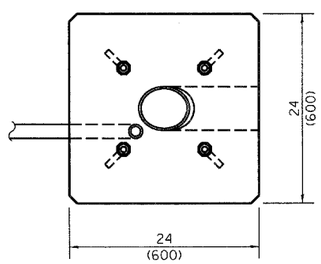


240/480 V ELECTRIC SERVICE INSTALLATION #1

- • Size larger as needed.
- •• Or as directed by Utility Company.
- ••• When cold sequencing is required, provide a meter disconnect switch as directed by Utility Company.

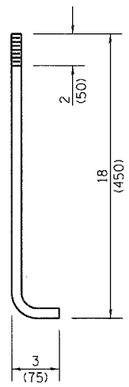


LIGHTING CONTROLLER

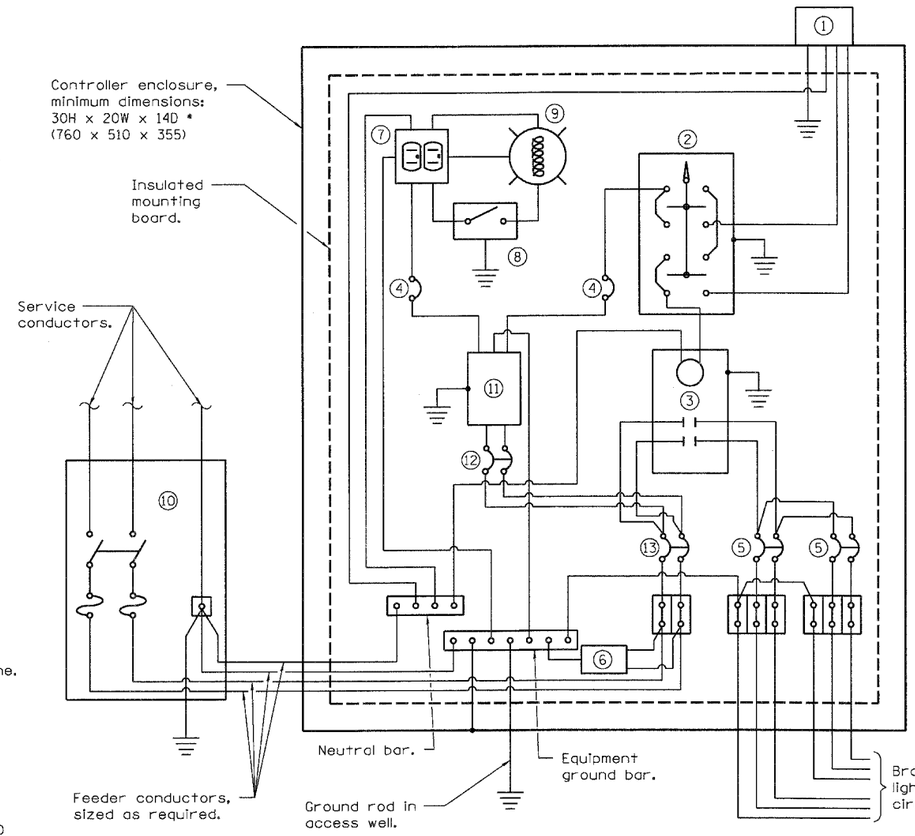


FOUNDATION (PLAN)

(Work pad not shown.)



ANCHOR ROD DETAIL



CONTROL SCHEMATIC

1. Photocell with integral surge arrester.
2. HAND-OFF-AUTO selector switch.
3. 100 amp•, electrically held contactor.
4. 15 amp, 1-pole circuit breaker.
5. 30 amp•, 2-pole circuit breaker (one additional and two spares required but not shown).
6. Surge arrester.
7. GFCI duplex receptacle.

• Size larger as needed.

8. Single-pole, single-throw switch.
9. Incandescent luminaire, enclosed and gasketted with 100 watt lamp.
10. Service disconnect switch - 2-pole, 3-wire, 60 amp•, fused at 60 amp•, solid neutral in NEMA 4X enclosure having lockable external handle.
11. Transformer - 1KVA•, 480V primary, 120/240V secondary, single-phase, 60Hz.
12. 15 amp, 2-pole circuit breaker.
13. 60 amp•, 2-pole circuit breaker.

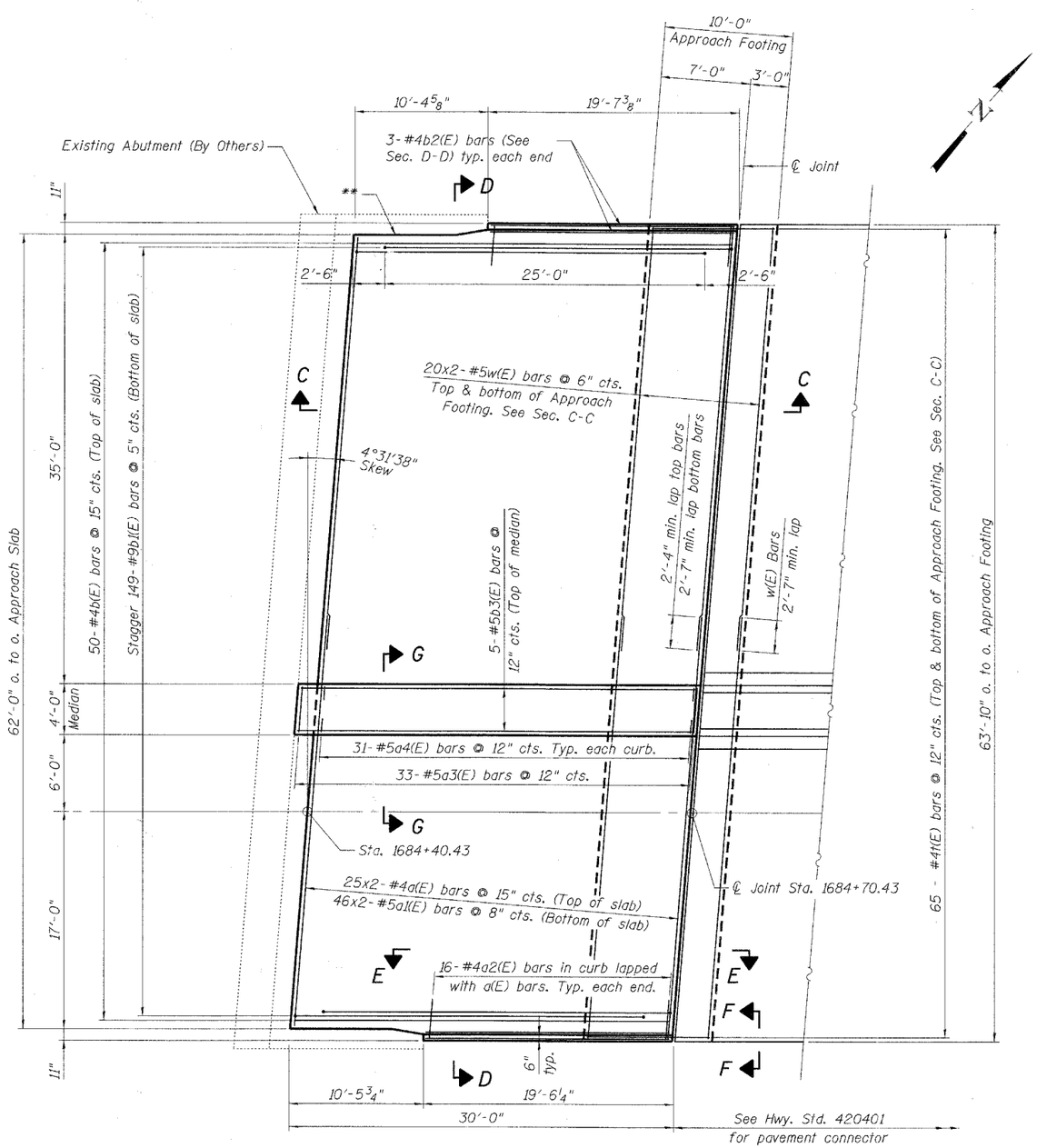
All dimensions are in inches (millimeters) unless otherwise shown.

CONTROLLER #1

Concrete foundation already installed under separate contract (76D05).

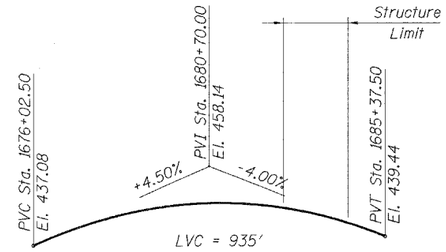
FILE NAME = $FILE$	ABNA engineering	USER NAME = $USER$	DESIGNED - AAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS			DRAWN - MNR	REVISED -	I-70 CONNECTION
		PLOT SCALE = $SCALE$	CHECKED - JL	REVISED -	CONTROL INSTALLATION
		PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	270
		CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



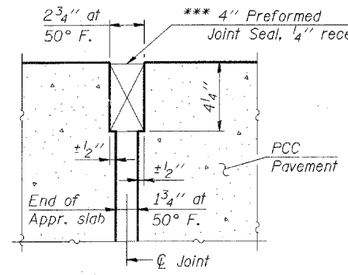
PLAN

** Closed cell joint filler according to Article 1051.08 of the Std. Specifications; full depth of slab, full length of parapet. Typ. each parapet

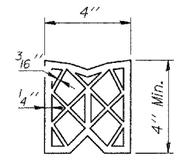


PROFILE GRADE ℄ RELOCATED IL-3

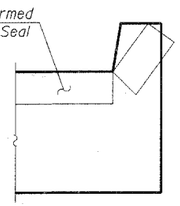
*** Cost included with Concrete Superstructure.



DETAIL A



PREFORMED JOINT SEAL



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

STATE OF ILLINOIS
BYRON T. DANLEY
081-004737
CHICAGO IL
LICENSED STRUCTURAL ENGINEER

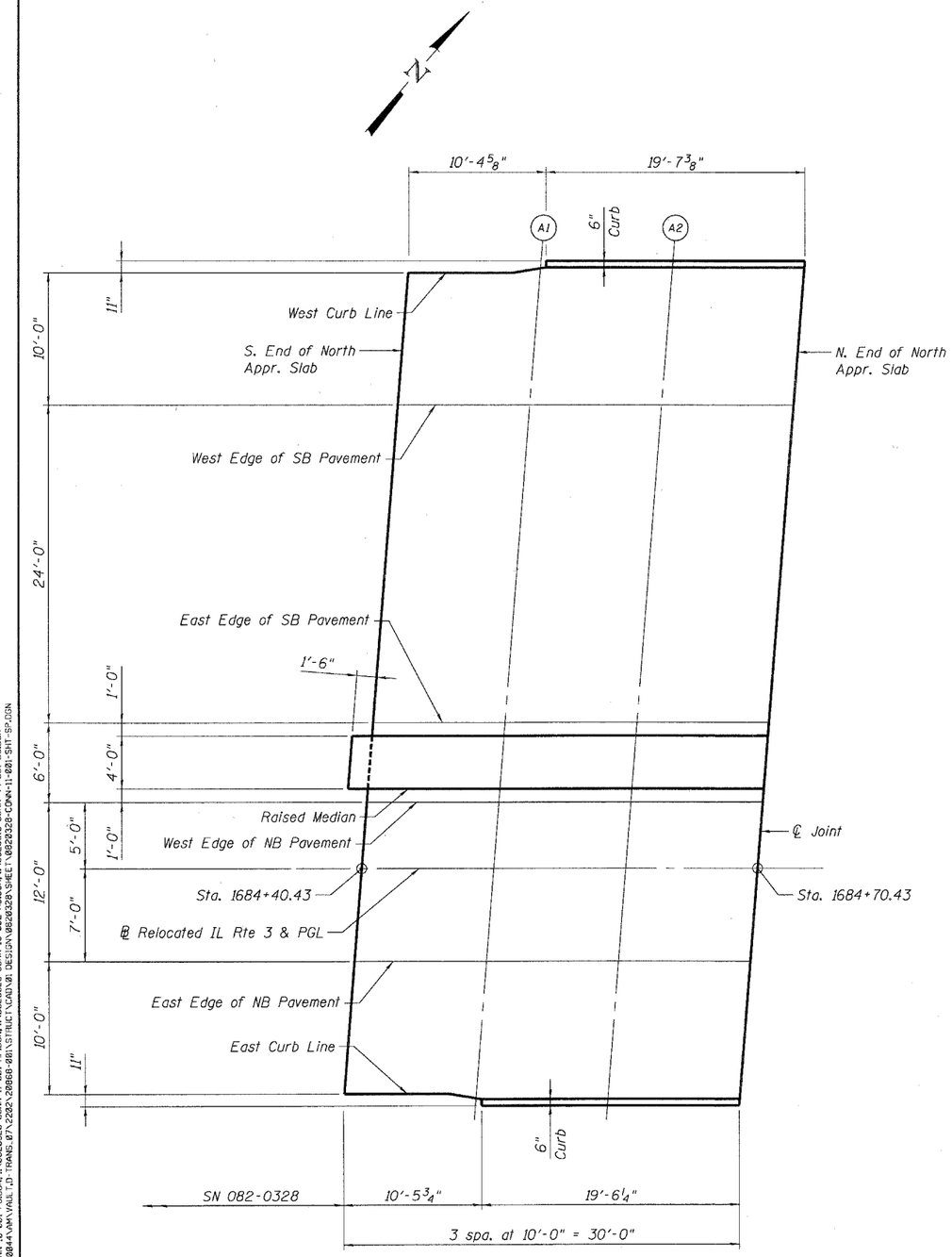
BYRON T. DANLEY
EXPIRES: 11/30/12
DATE : 10/19/11
SHEETS: 271-273

NOTES:

1. See sheet S-3 for Sections C-C & D-D and View E-E. a(E) and a1(E) bar spacings measured along ℄ Rdwy.
2. Bars indicated thus 25x3-#5 etc. indicated 25 lines of bars with 3 lengths per line.
3. Tilt #9b1(E) bars as required to maintain clearance.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.

..\082032B-CONN-11-001-AP.DGN, ..\082031B-CONN-99-001-BD.DGN
08-19-2011, 14:26:30 BONDHUU \\FS-05\44\MAYHAULTO-TRANS_87\2267\28868-00A\STRUCT\CADD\ DESIGN\082032B.SHEET\082032B-CONN-11-001-SHT-AP.DGN

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - TCG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	NORTH APPROACH SLAB PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TCG	REVISED -			998	82-2-1HVB-1	ST. CLAIR	353	271
	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -				SN 082-0328		CONTRACT NO. 76E06	
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -		SCALE:	SHEET NO. S-1 OF S-6	STA. 1683+43.17 TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



PLAN

North Approach SN 082-0328

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+44.00	-45.00	441.88
A1	1684+54.02	-45.34	441.56
A2	1684+64.03	-45.42	441.23
N. End North Appr. Slab	1684+74.03	-45.42	440.89

WEST EDGE OF NB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+40.83	-5.00	442.78
A1	1684+50.83	-5.00	442.47
A2	1684+60.83	-5.00	442.14
N. End North Appr. Slab	1684+70.83	-5.00	441.80

WEST EDGE OF SB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+43.20	-35.00	442.11
A1	1684+53.20	-35.00	441.79
A2	1684+63.20	-35.00	441.46
N. End North Appr. Slab	1684+73.20	-35.00	441.12

℄ RELOCATED IL RTE 3 & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+40.43	0.00	442.89
A1	1684+50.43	0.00	442.58
A2	1684+60.43	0.00	442.25
N. End North Appr. Slab	1684+70.43	0.00	441.92

EAST EDGE OF SB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+41.30	-11.00	442.65
A1	1684+51.30	-11.00	442.33
A2	1684+61.30	-11.00	442.00
N. End North Appr. Slab	1684+71.30	-11.00	441.67

EAST EDGE OF NB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+39.88	7.00	442.77
A1	1684+49.88	7.00	442.46
A2	1684+59.88	7.00	442.13
N. End North Appr. Slab	1684+69.88	7.00	441.80

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	1684+39.09	17.00	442.60
A1	1684+49.06	17.34	442.28
A2	1684+59.05	17.42	441.95
N. End North Appr. Slab	1684+69.05	17.42	441.62

..\DECONN-11-ALIGNMENT.DGN, ..\V8202328-CONN-10-001-PG.DGN, ..\V8202328-CONN-11-001-AP.DGN, ..\V8202328-CONN-10-002-AG.DGN, ..\V8202328-CONN-99-001-BG.DGN
10-19-2011, 15:43:13 BONDHUJO \\FS-2044\VAH\VAULT\D-TRANS.87\2202\20868-001\STRUCTCAD\VD DESIGN\V8202328\SHEET\V8202328-CONN-11-001-SHT-SP.DGN

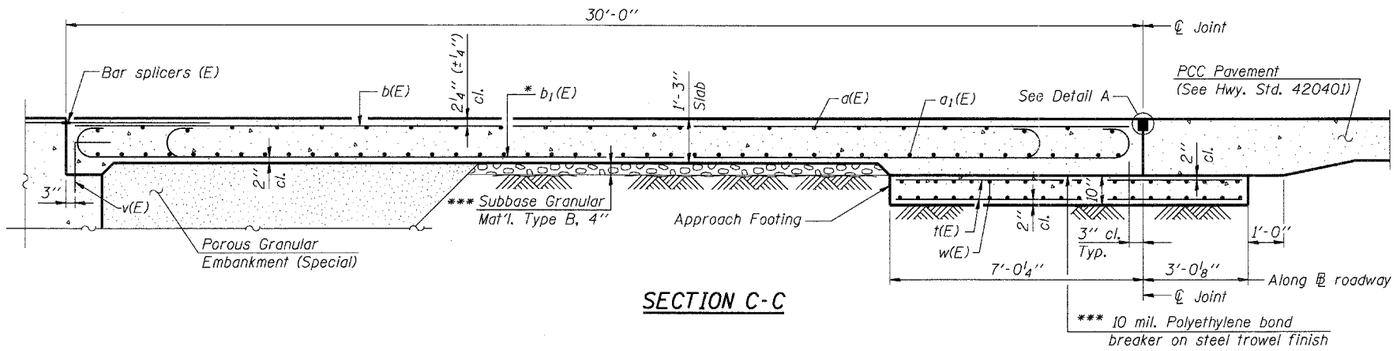
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - TCG	REVISED -
		DRAWN - TCG	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

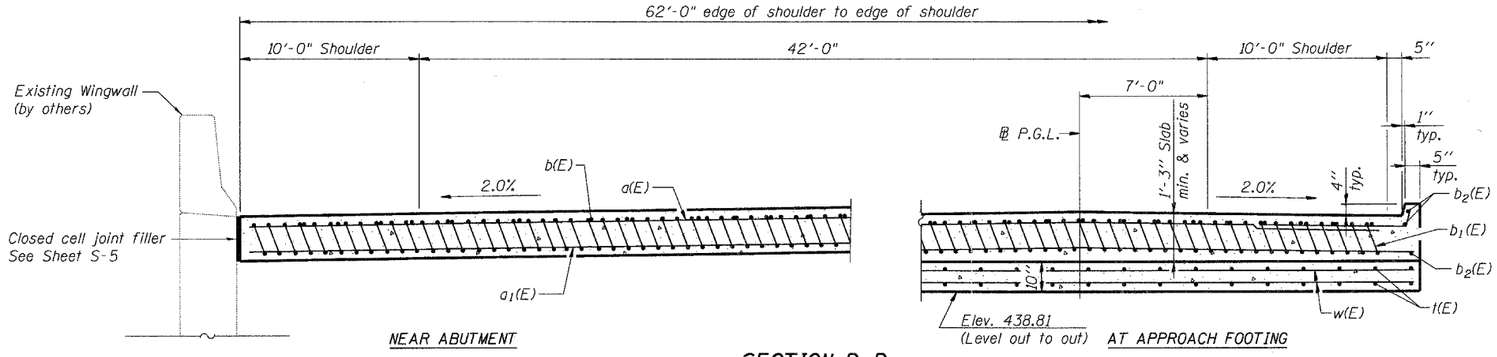
TOP OF SLAB ELEVATIONS

SCALE: | SHEET NO. S-2 OF S-6 | STA. 1683+43.17 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	353	272
	SN 082-0328	CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION C-C



SECTION D-D

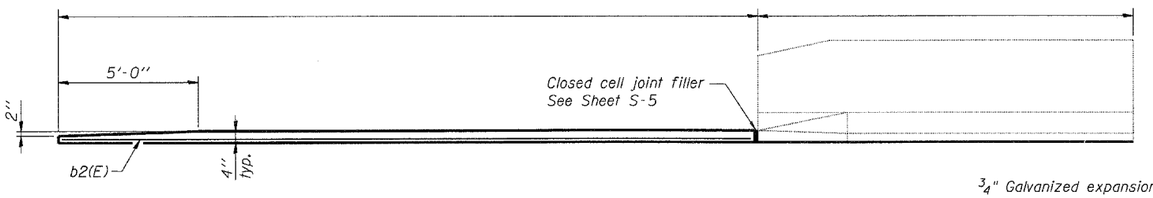
(See Plan for dimensions not shown, median not shown)

* Tilt #9 b_1(E) bars as required to maintain clearance.

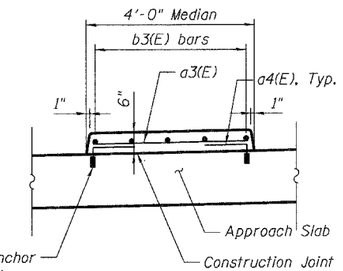
*** Cost included with Concrete Superstructure.

BILL OF MATERIAL

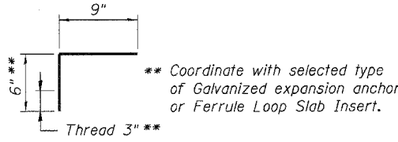
Bar	No.	Size	Length	Shape
a(E)	50	#4	32'-1"	
a1(E)	92	#5	33'-2"	
a2(E)	32	#4	3'-6"	
a3(E)	33	#5	3'-6"	
a4(E)	62	#5	1'-10"	
b(E)	50	#4	29'-8"	
b1(E)	149	#9	29'-9"	
b2(E)	6	#4	19'-2"	
b3(E)	5	#5	31'-0"	
t(E)	130	#4	9'-8"	
w(E)	80	#5	33'-2"	
Concrete Structures		Cu Yd	19.8	
Concrete Superstructure		Cu Yd	101.3	
Bridge Deck Grooving		Sq Yd	181	
Protective Coat		Sq Yd	216	
Reinforcement Bars, Epoxy Coated		Pound	24,480	



VIEW E-E

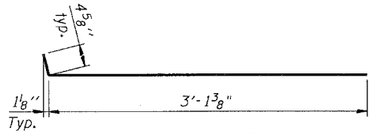


SECTION G-G

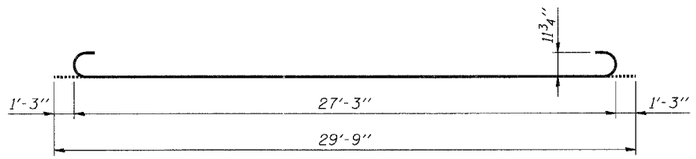


** Coordinate with selected type of Galvanized expansion anchor or Ferrule Loop Slab Insert.

BAR a4(E)



BAR a2(E)



BAR b1(E)

NOTES:

1. See sheet S-1 for Detail A and View F-F.
2. Approach slab and curb concrete shall be paid for as Concrete Superstructure.
3. Approach footing concrete shall be paid for as Concrete Structures.
4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
5. Bar splicers (E) and v(E) bars supplied by others (contract 76D05).
6. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7. Cost of excavation for approach footing included with Concrete Structures.
8. Cost of expansion anchors/inserts included with Reinforcement Bars, Epoxy Coated.

..\B328318-CONN-99-080-BDLDGN, ..\B328328-CONN-11-001-APLDGN
10-19-2011, 15:43:17 BONDHLJO \\FS-0244\AM\VAULT\D_TRANS_87\2202-28868-001\STRUCTCAD\GI DESIGN\B328328\SHEET\B328328-CONN-11-002

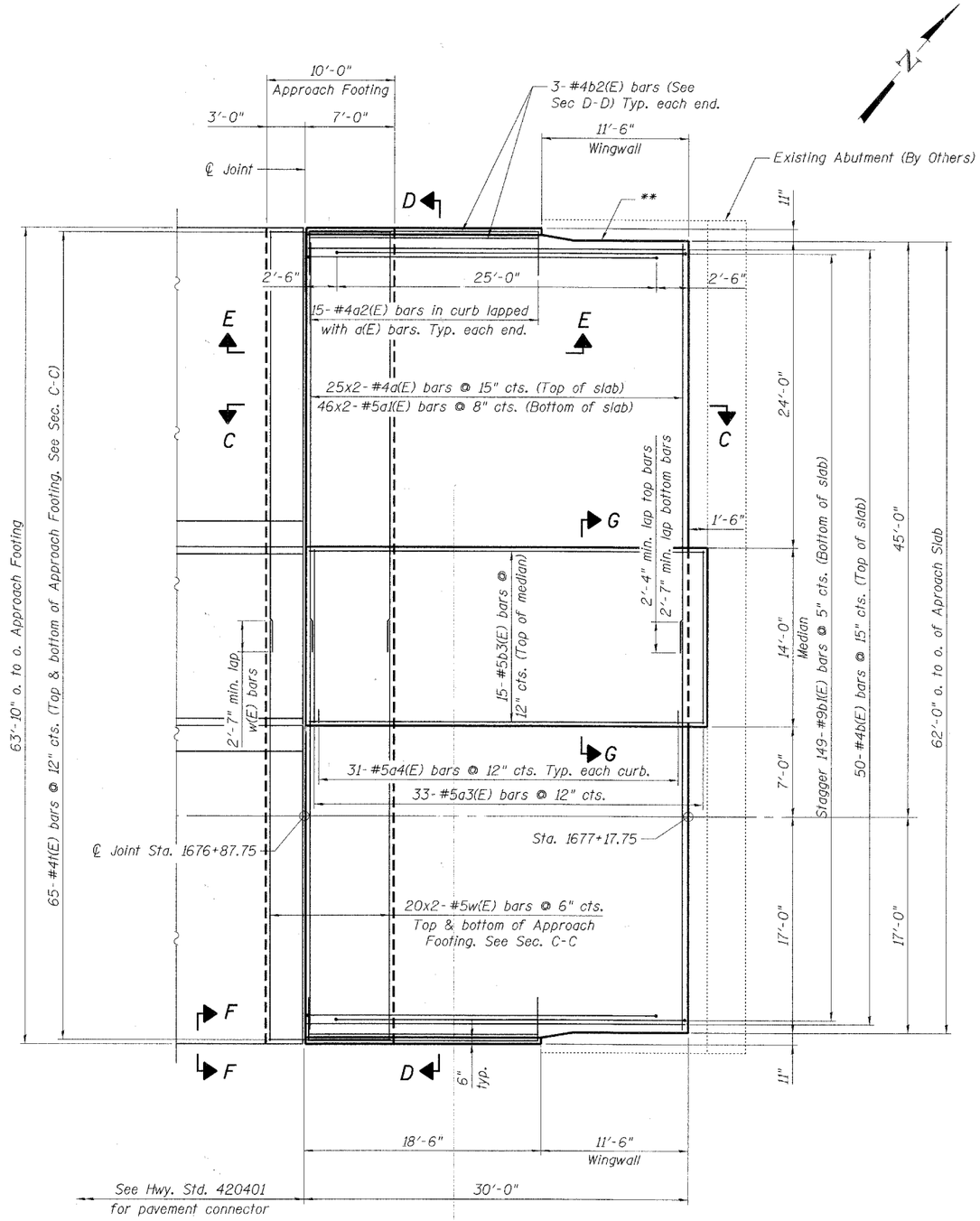
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - TCG	REVISED -	
		DRAWN - TCG	REVISED -	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

BRIDGE APPROACH SLAB DETAILS

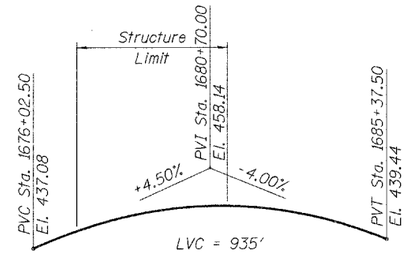
SCALE: | SHEET NO. S-3 OF S-6 | STA. 1683+43.17 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	353	273
	SN 082-0328	CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



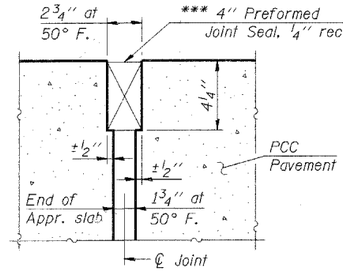
PLAN

** Closed cell joint filler according to Article 1051.08 of the Std. Specifications; full depth of slab, full length of parapet. Typ. each parapet

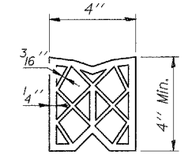


PROFILE GRADE ℄ RELOCATED IL-3

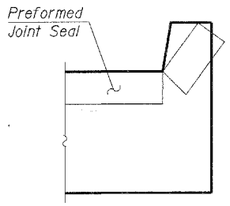
*** Cost included with Concrete Superstructure.



DETAIL A



PREFORMED JOINT SEAL



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

STATE OF ILLINOIS
BYRON T. DANLEY
081-004737
CHICAGO IL
LICENSED STRUCTURAL ENGINEER

BYRON T. DANLEY
EXPIRES: 11/30/12
DATE : 10/19/11
SHEETS: 274-276

NOTES:

1. See sheet S-6 for Sections C-C & D-D and View E-E. a(E) and a1(E) bar spacings measured along ℄ Rdwy.
2. Bars indicated thus 25x3-#5 etc. indicated 25 lines of bars with 3 lengths per line.
3. Tilt #9b1(E) bars as required to maintain clearance.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.

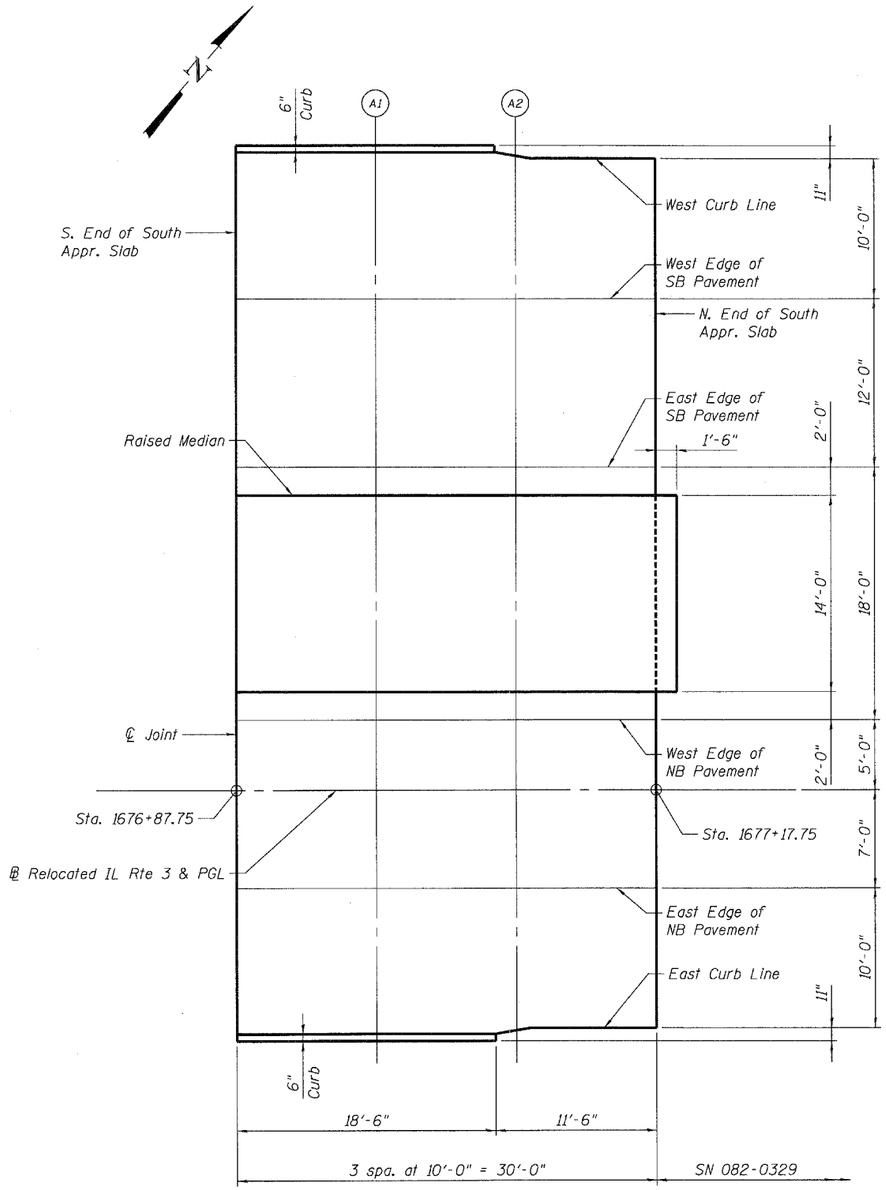
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - TCG	REVISED -
		DRAWN - TCG	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER
TRRA & ST. CLAIR AVENUE

SOUTH APPROACH SLAB PLAN

SCALE: | SHEET NO. S-4 OF S-6 | STA. 1679+16.65 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	353	274
	SN 082-0329	CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

South Approach

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	-45.42	439.69
A1	1676+97.75	-45.42	440.05
A2	1677+07.75	-45.17	440.42
N. End South Appr. Slab	1677+17.75	-45.00	440.77

WEST EDGE OF NB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	-5.00	440.49
A1	1676+97.75	-5.00	440.86
A2	1677+07.75	-5.00	441.22
N. End South Appr. Slab	1677+17.75	-5.00	441.57

WEST EDGE OF SB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	-35.00	439.89
A1	1676+97.75	-35.00	440.26
A2	1677+07.75	-35.00	440.62
N. End South Appr. Slab	1677+17.75	-35.00	440.97

℄ RELOCATED IL RTE 3 & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	0.00	440.59
A1	1676+97.75	0.00	440.96
A2	1677+07.75	0.00	441.32
N. End South Appr. Slab	1677+17.75	0.00	441.67

EAST EDGE OF SB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	-23.00	440.13
A1	1676+97.75	-23.00	440.50
A2	1677+07.75	-23.00	440.86
N. End South Appr. Slab	1677+17.75	-23.00	441.21

EAST EDGE OF NB PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	7.00	440.45
A1	1676+97.75	7.00	440.82
A2	1677+07.75	7.00	441.18
N. End South Appr. Slab	1677+17.75	7.00	441.53

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	1676+87.75	17.42	440.25
A1	1676+97.75	17.42	440.61
A2	1677+07.75	17.17	440.98
N. End South Appr. Slab	1677+17.75	17.00	441.33

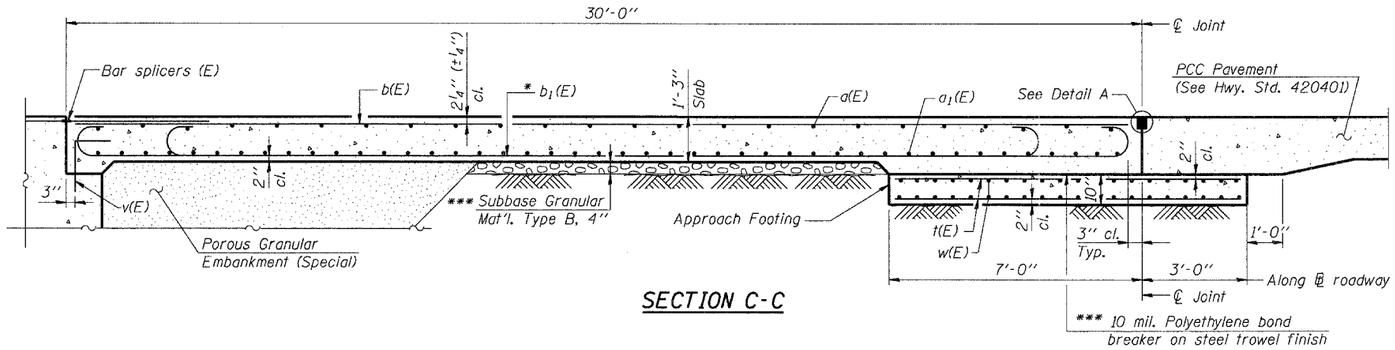
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - TCG	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS		DRAWN - TCG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER
TRRA & ST. CLAIR AVENUE

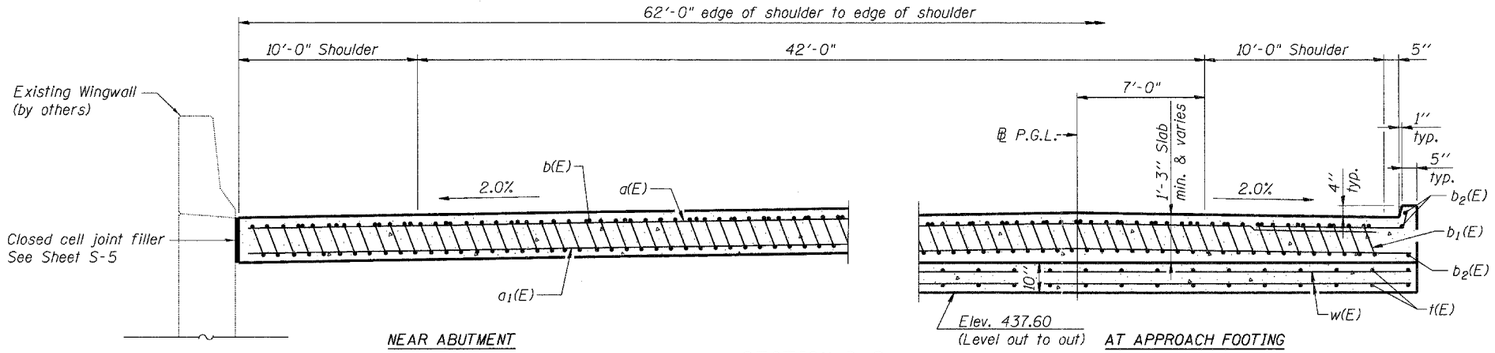
TOP OF APPROACH SLAB ELEVATIONS

SCALE: | SHEET NO. S-5 OF S-6 | STA. 1679+16.65 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	353	275
	SN 082-0329	CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION C-C



SECTION D-D

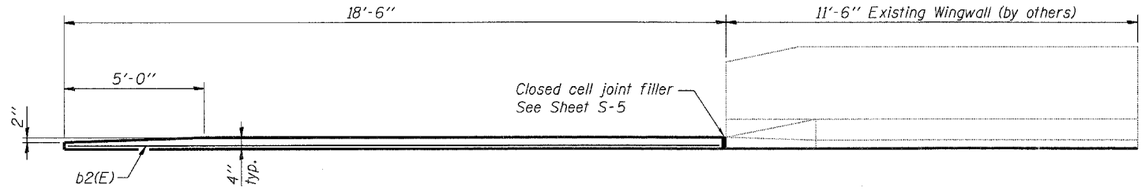
(See Plan for dimensions not shown, median not shown)

* Tilt #9 b_1(E) bars as required to maintain clearance.

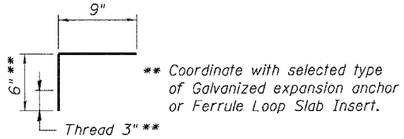
*** Cost included with Concrete Superstructure.

BILL OF MATERIAL

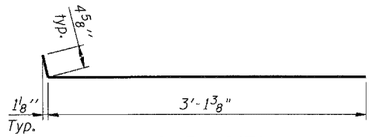
Bar	No.	Size	Length	Shape
a(E)	50	#4	32'-0"	
a1(E)	92	#5	33'-1"	
a2(E)	30	#4	3'-6"	
a3(E)	33	#5	13'-6"	
a4(E)	62	#5	1'-10"	
b(E)	50	#4	29'-8"	
b1(E)	149	#9	29'-9"	
b2(E)	6	#4	18'-2"	
b3(E)	15	#5	31'-0"	
t(E)	130	#4	9'-8"	
w(E)	80	#5	33'-1"	
Concrete Structures			Cu Yd	19.7
Concrete Superstructure			Cu Yd	105.3
Bridge Deck Grooving			Sq Yd	147
Protective Coat			Sq Yd	217
Reinforcement Bars, Epoxy Coated			Pound	25,120



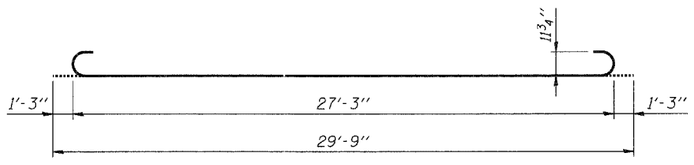
VIEW E-E



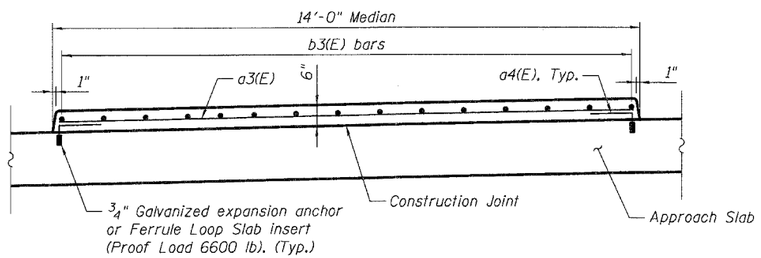
BAR a4(E)



BAR a2(E)



BAR b1(E)



SECTION G-G

NOTES:

1. See sheet S-4 for Detail A and View F-F.
2. Approach slab and curb concrete shall be paid for as Concrete Superstructure.
3. Approach footing concrete shall be paid for as Concrete Structures.
4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
5. Bar splicers (E) and v(E) bars supplied by others (contract 76D05).
6. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
7. Cost of excavation for approach footing included with Concrete Structures.
8. Cost of expansion anchors/inserts included with Reinforcement Bars, Epoxy Coated.

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - TCG	REVISED -
		DRAWN - TCG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JLR	REVISED -
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

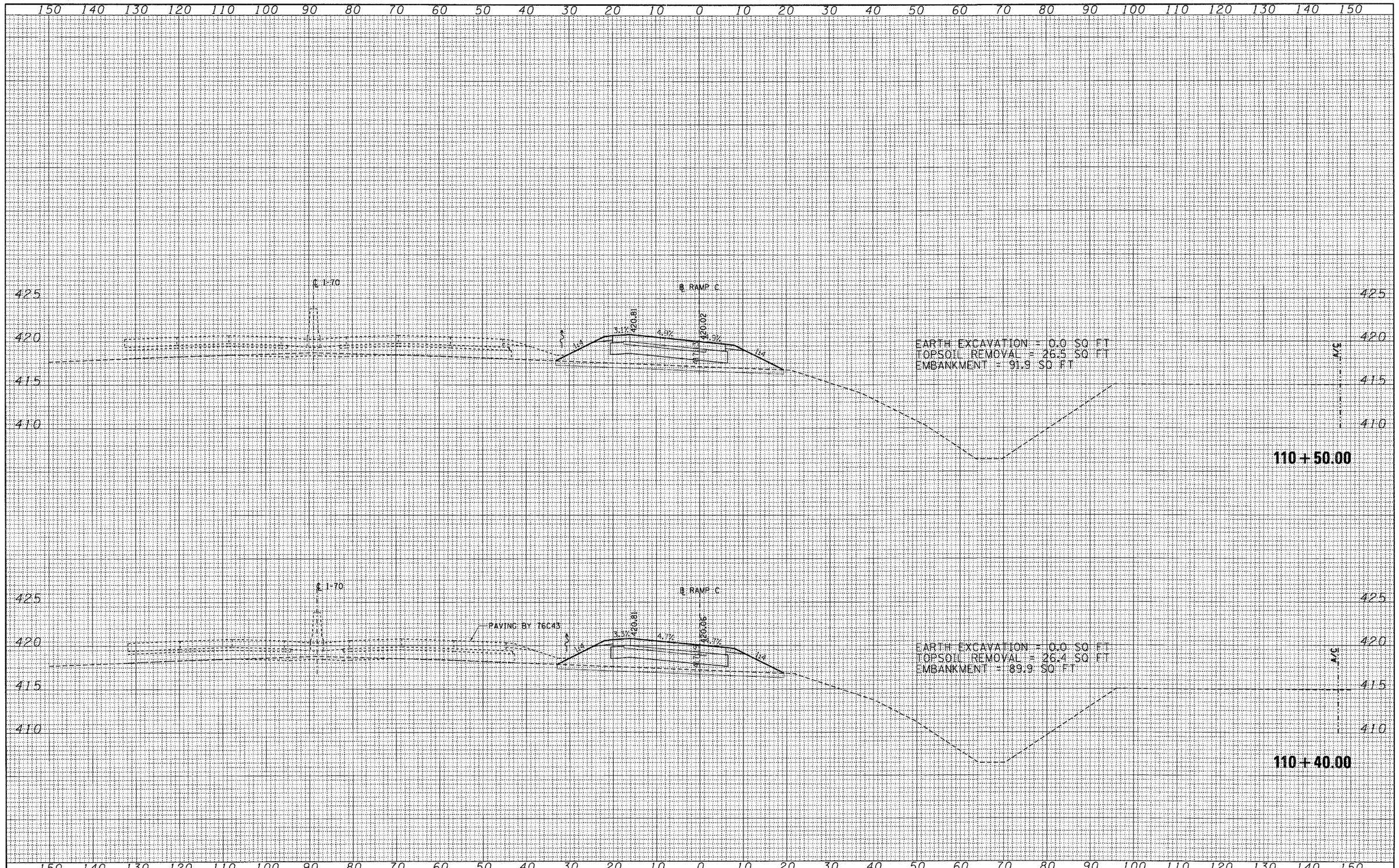
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER
TRRA & ST. CLAIR AVENUE

BRIDGE APPROACH SLAB DETAILS
2 OF 2

SCALE: | SHEET NO. S-6 OF S-6 | STA. 1679+16.65 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	353	276
	SN 082-0329	CONTRACT NO. 76E06		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED	DATE	



ORIGINAL SURVEY	SURVEYED	BY	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED	DATE	

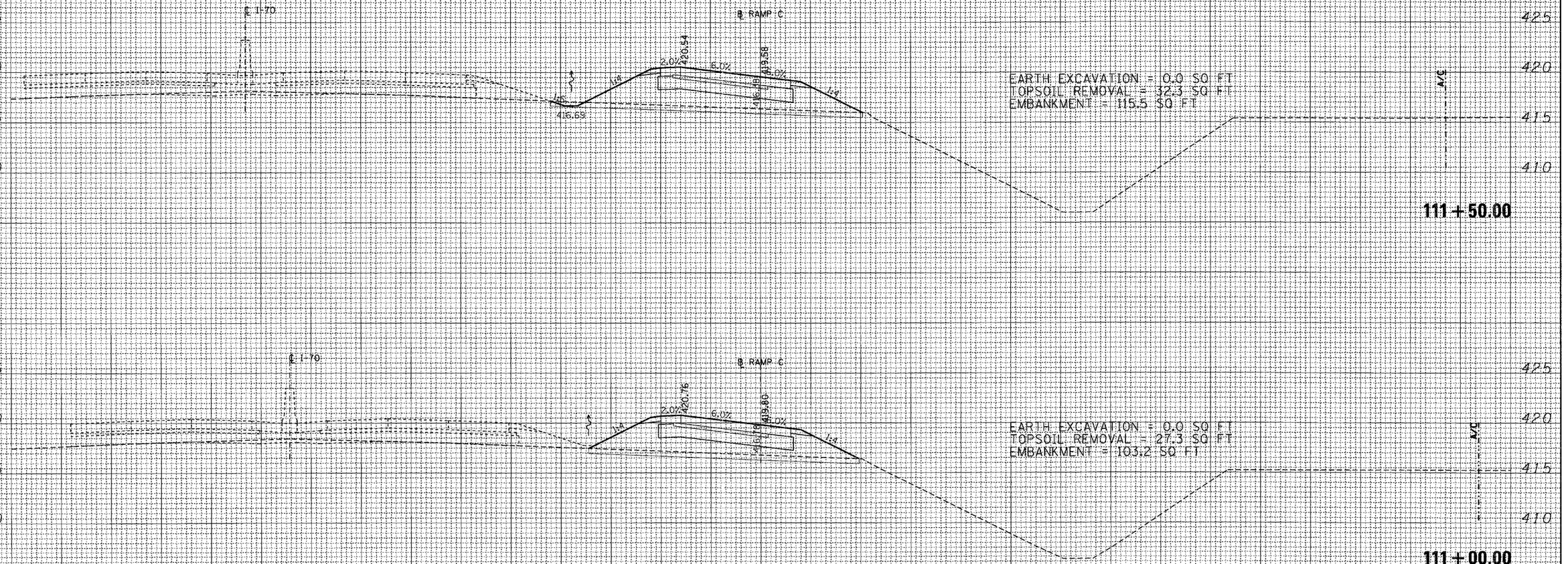
FILE NAME = ®FILEL®	USER NAME = ®USER®	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = ®SCALE®	CHECKED - ACL	REVISED -
	PLOT DATE = ®DATE®	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 110+40.00 | TO STA. 110+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	277
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

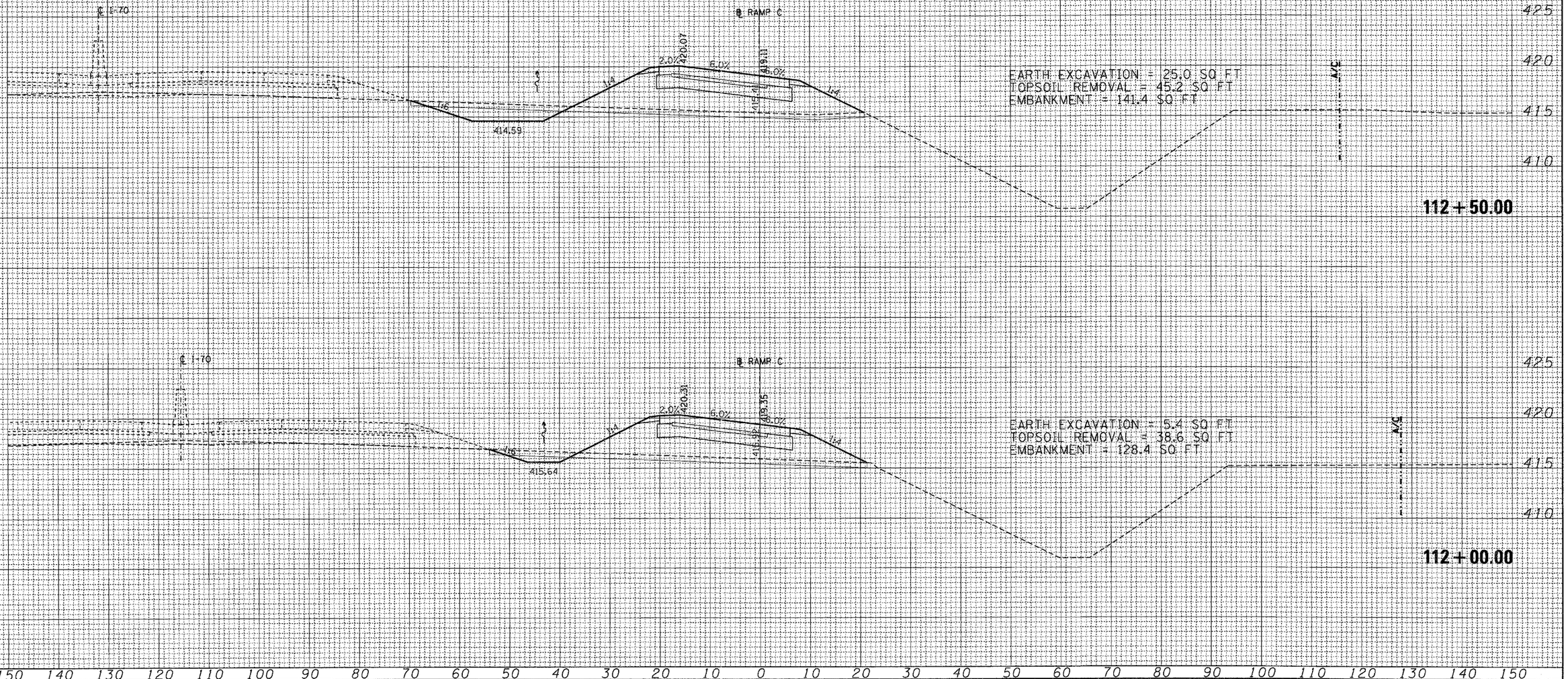
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 111+00.00 | TO STA. 111+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	278
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	



ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

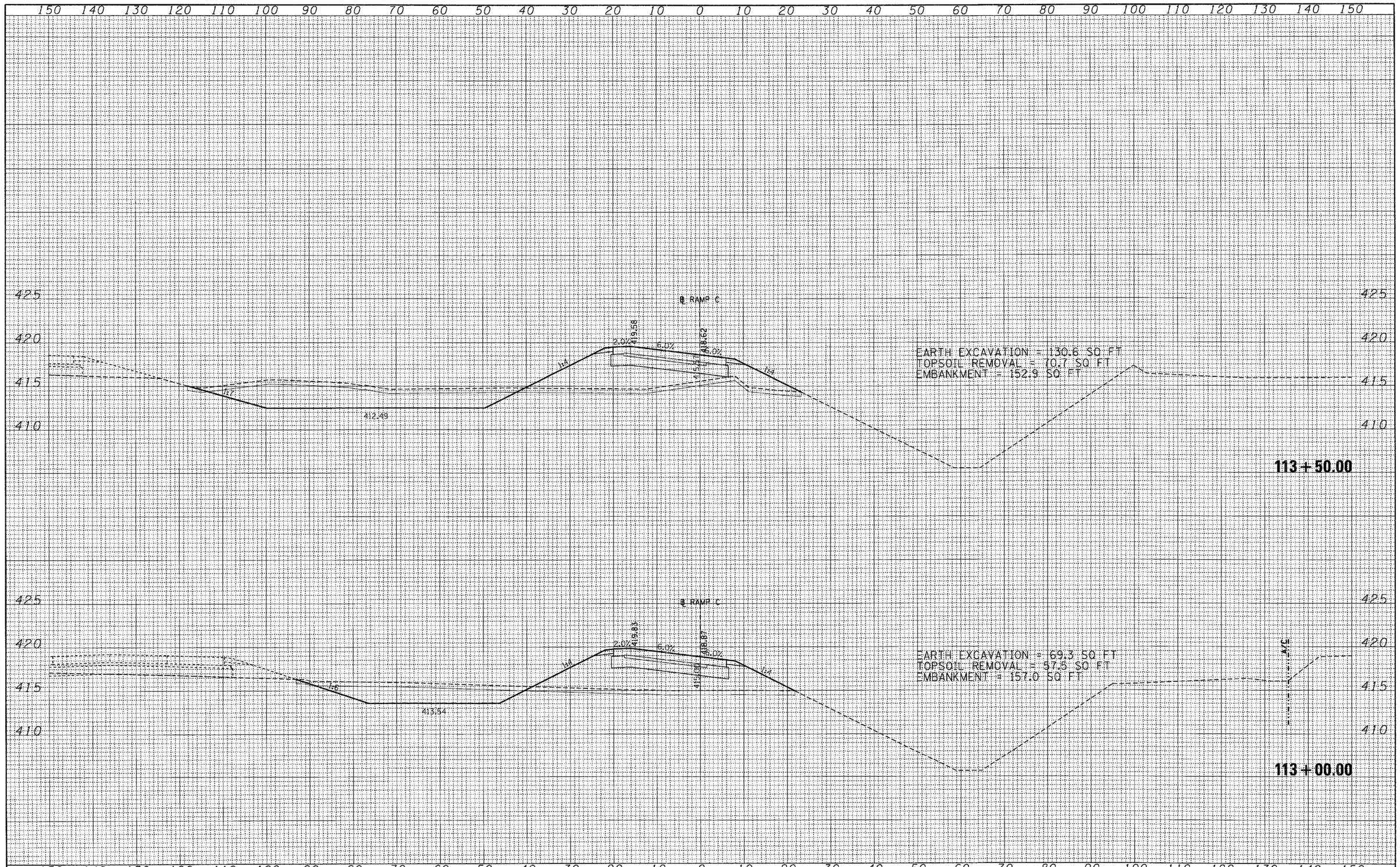
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 112+00.00 TO STA. 112+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	279
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE



ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

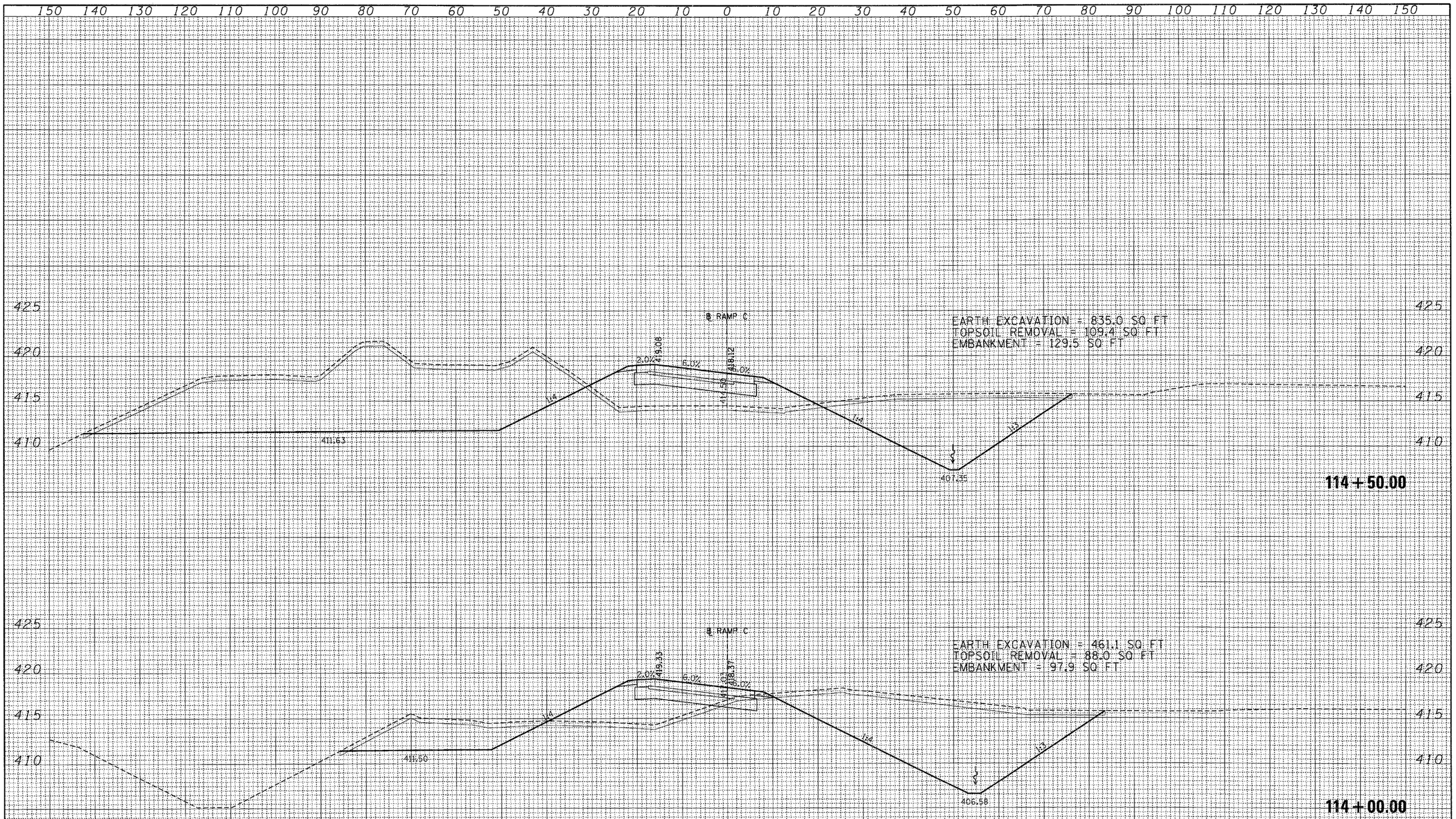
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 113+00.00 TO STA. 113+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	280
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		

NO.	NOTE BOOK	FINAL SURVEY
	AREAS CHECKED	SURVEYED
	AREAS	PLOTTED
	TEMPLATE	
		BY
		DATE



NO.	NOTE BOOK	ORIGINAL SURVEY
	AREAS CHECKED	SURVEYED
	AREAS	PLOTTED
	TEMPLATE	
		BY
		DATE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -	
		DRAWN - AG	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -	
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

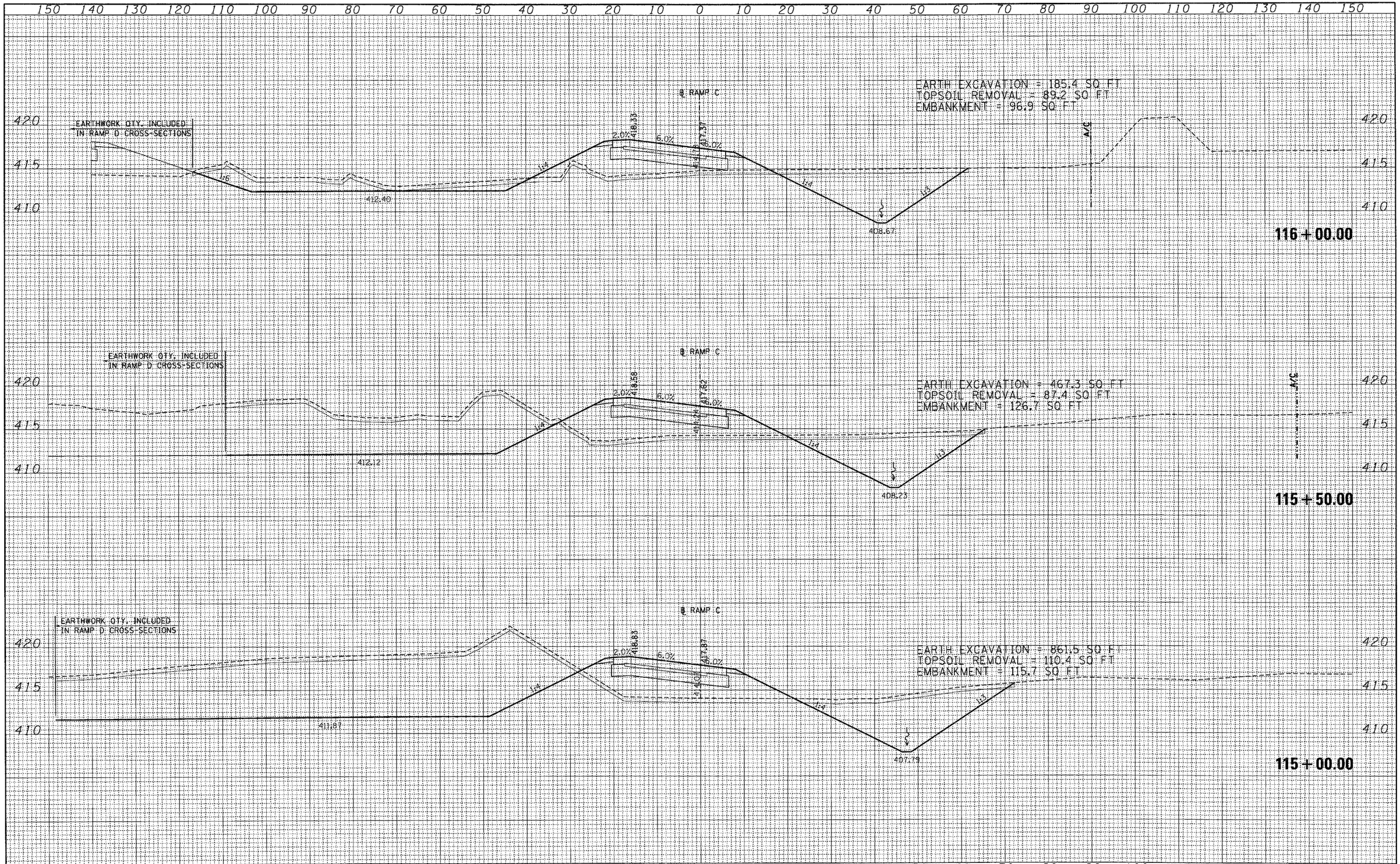
CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 114+00.00 | TO STA. 114+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	281
		CONTRACT NO. 76E06		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED			
	PLOTTED			
NOTE BOOK	TEMPLATE			
	AREAS			
NO.	AREAS CHECKED			

ORIGINAL SURVEY	SURVEYED			
	PLOTTED			
NOTE BOOK	TEMPLATE			
	AREAS			
NO.	AREAS CHECKED			



FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

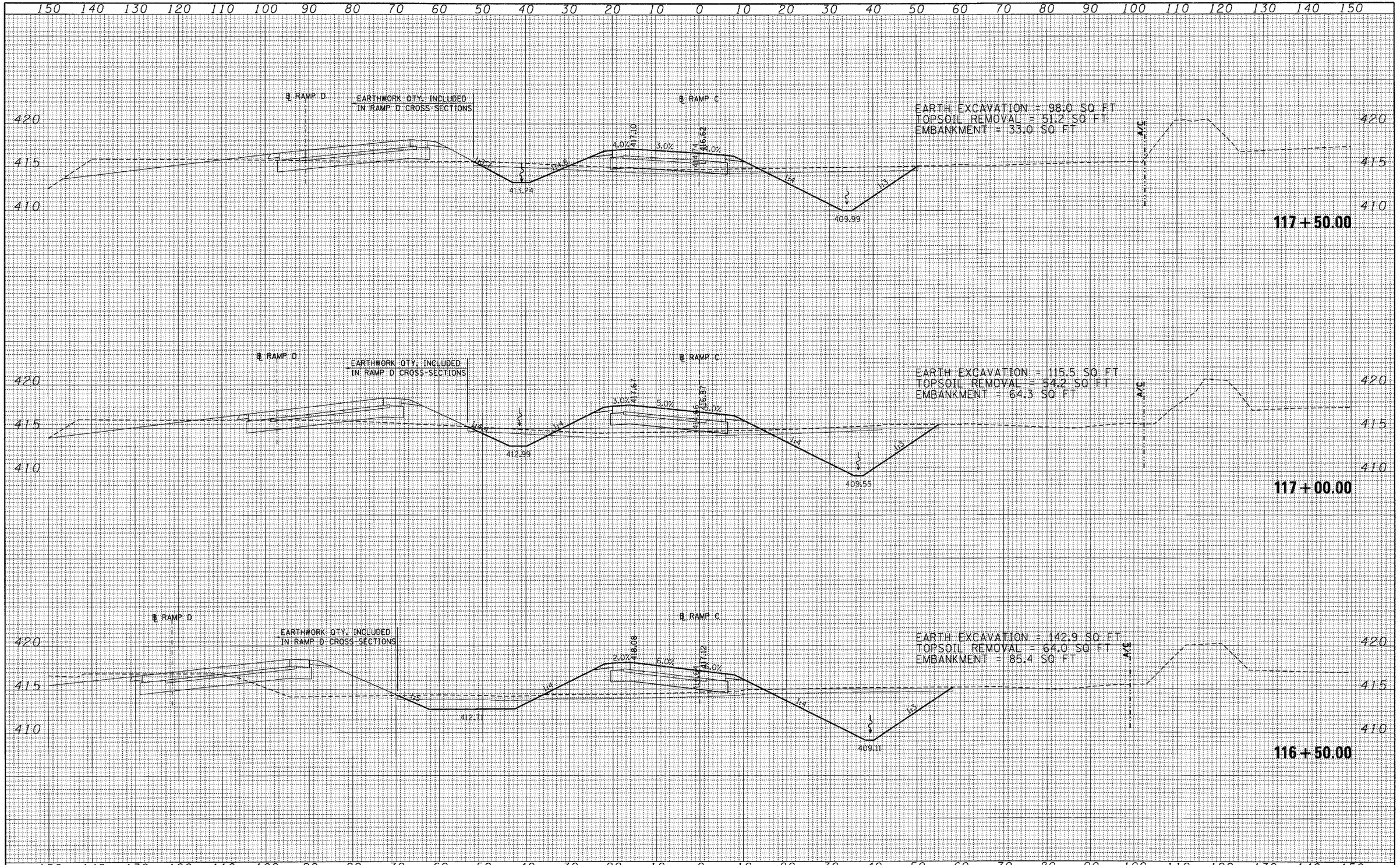
SCALE: | SHEET NO. OF SHEETS | STA. 115+00.00 TO STA. 116+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	282

CONTRACT NO. 76E06

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	ADJUSTED		
NO.	TEMPLATE AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	ADJUSTED		
NO.	TEMPLATE AREAS		
	AREAS CHECKED		

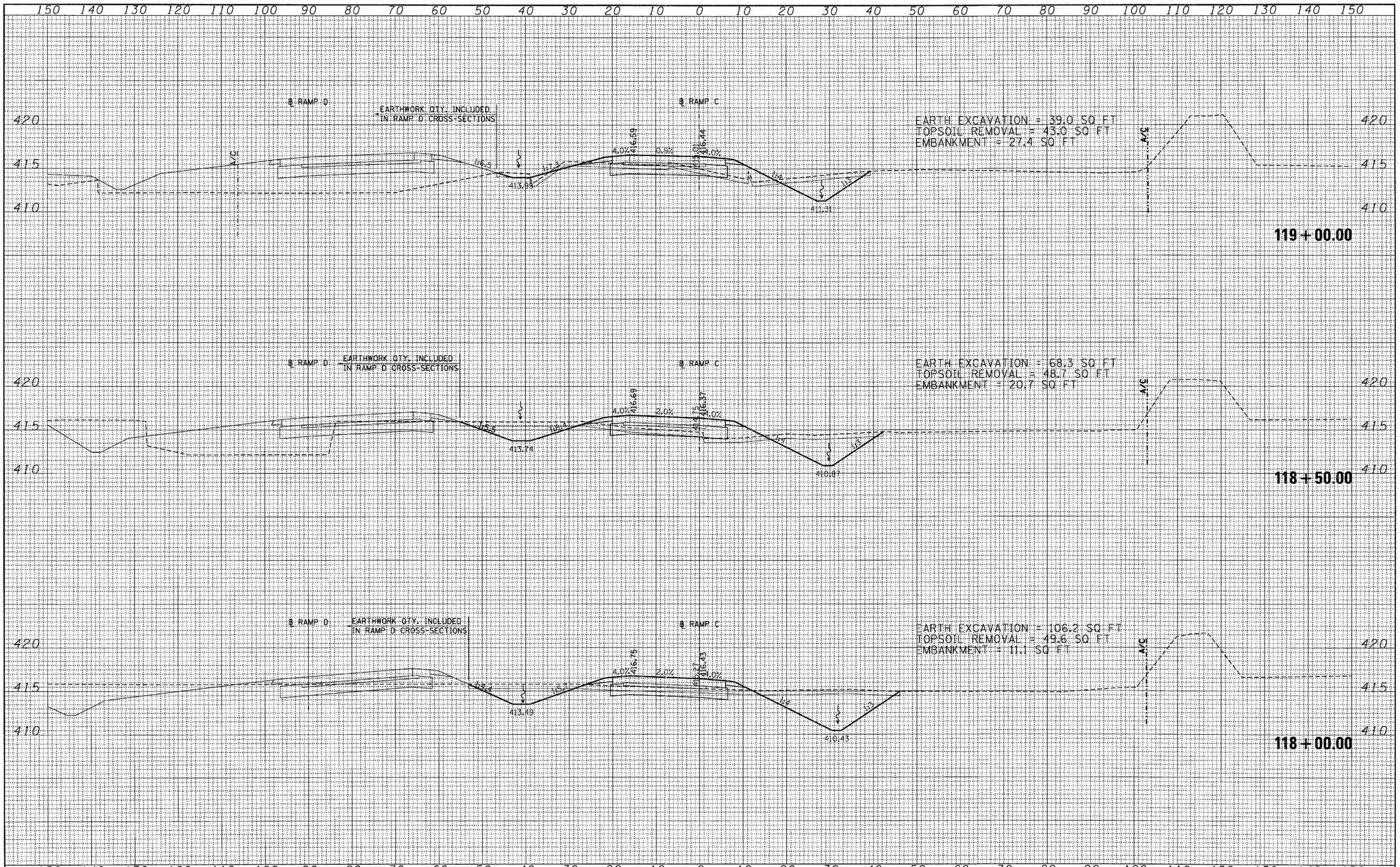
FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 116+50.00 | TO STA. 117+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	283
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

FILE NAME = ®FILEL®	USER NAME = ®USER®	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = ®SCALE®	CHECKED - ACL	REVISED -
	PLOT DATE = ®DATE®	DATE - 10/21/11	REVISED -

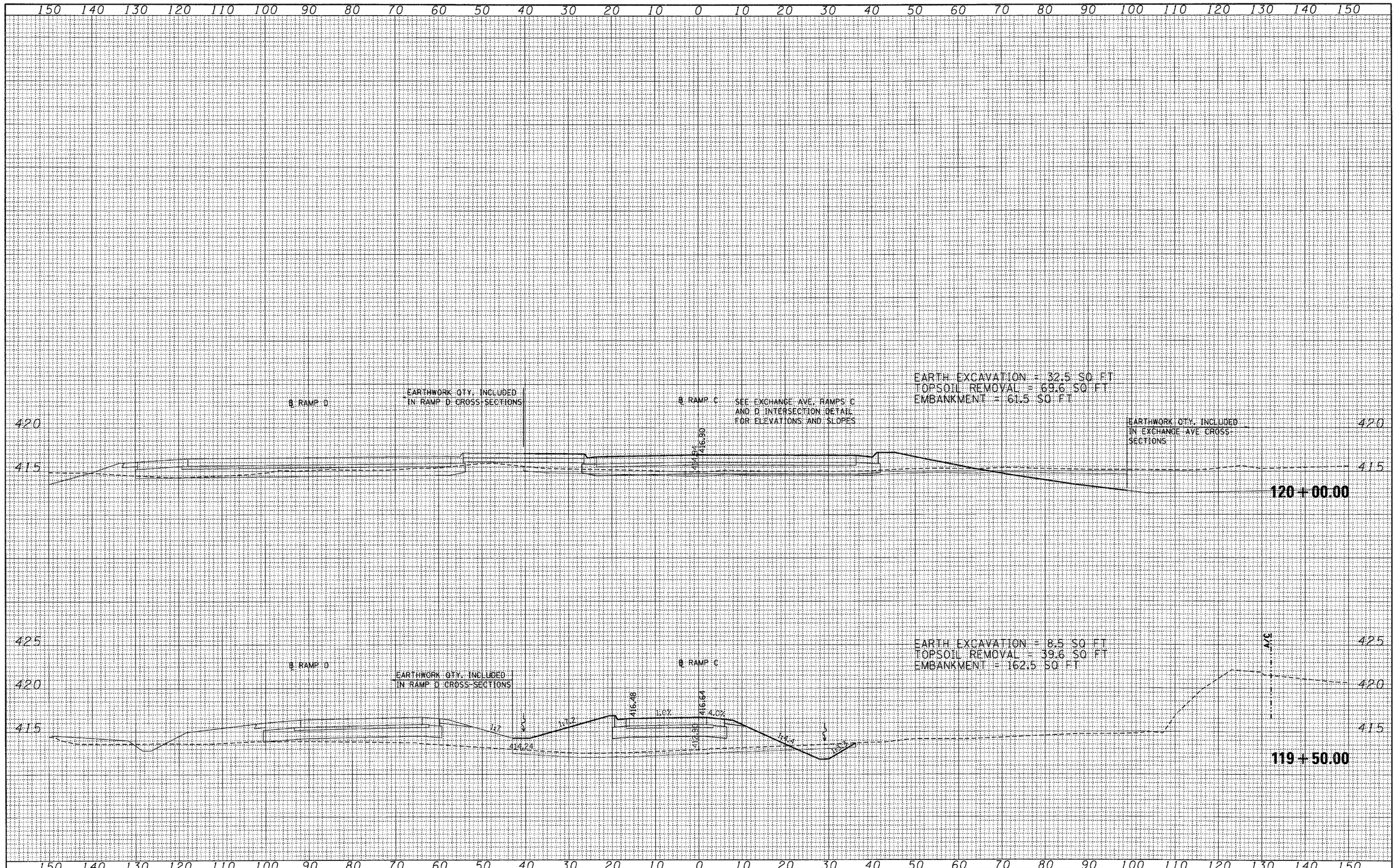
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 118+00.00 TO STA. 119+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	284
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE AREAS		
	AREAS CHECKED		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

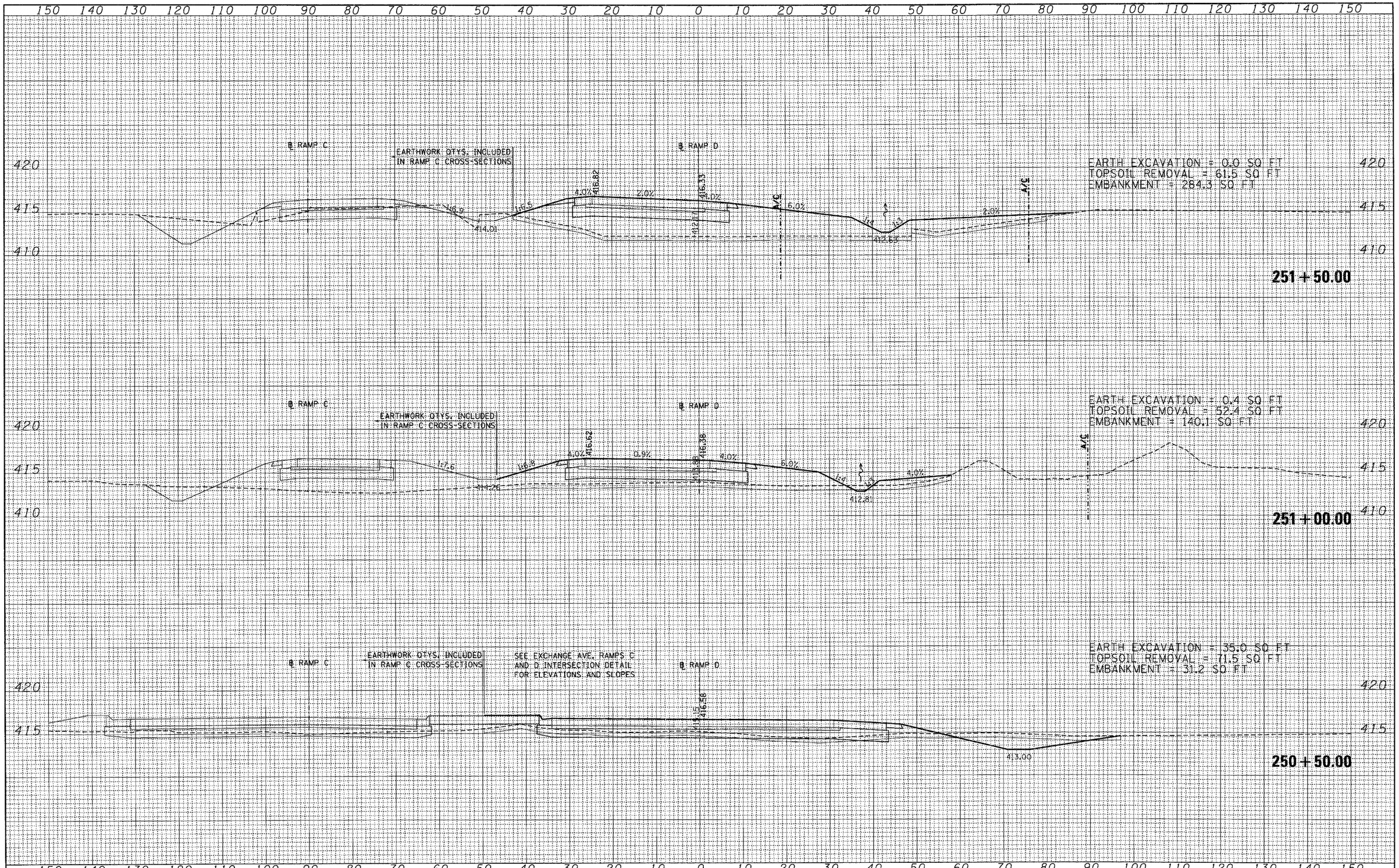
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP C

SCALE: | SHEET NO. OF SHEETS | STA. 119+50.00 TO STA. 120+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	285
		CONTRACT NO. 76E06		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	



ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

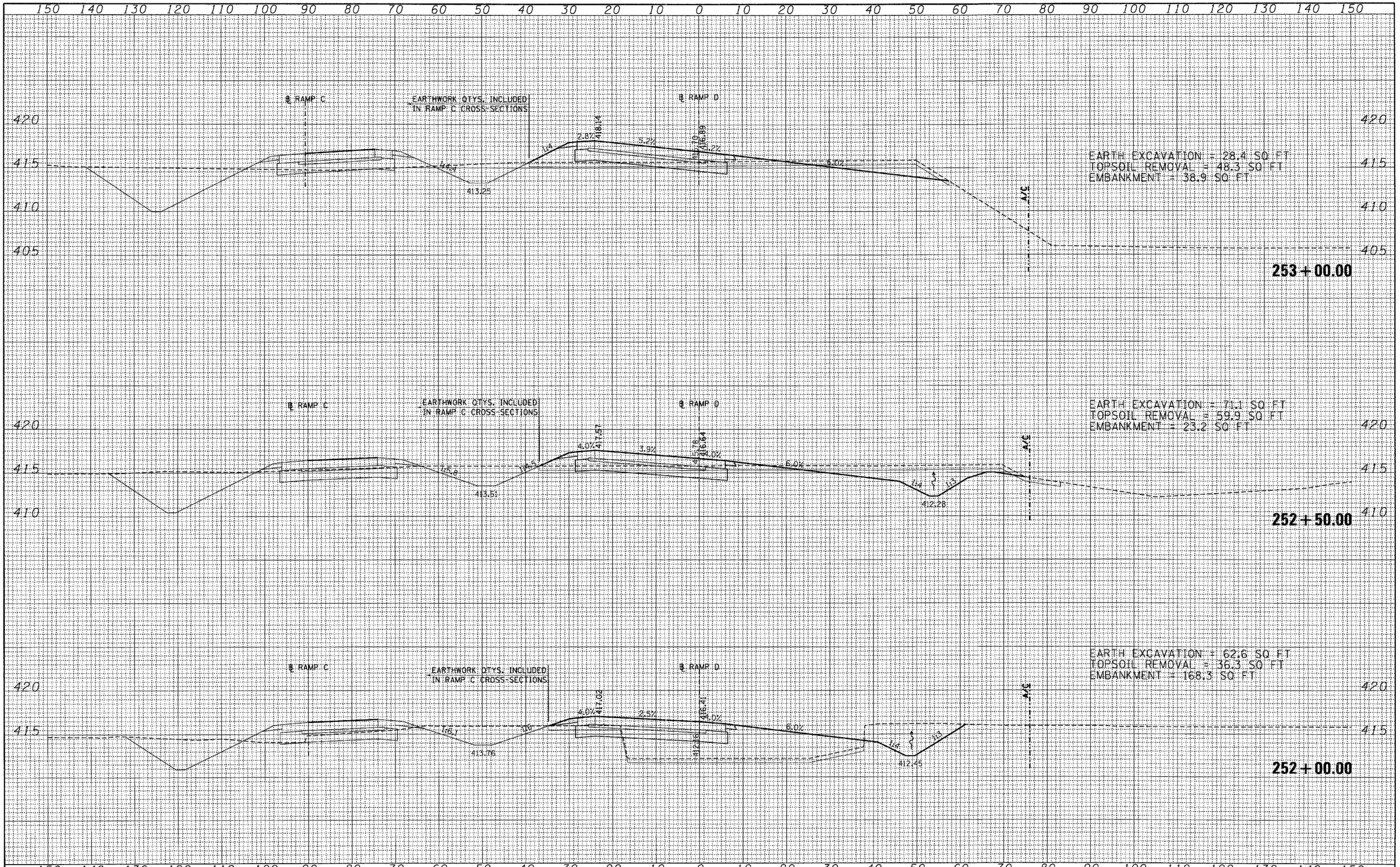
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

SCALE: | SHEET NO. OF SHEETS | STA. 250+50.00 TO STA. 251+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	286
		CONTRACT NO. 76E06		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

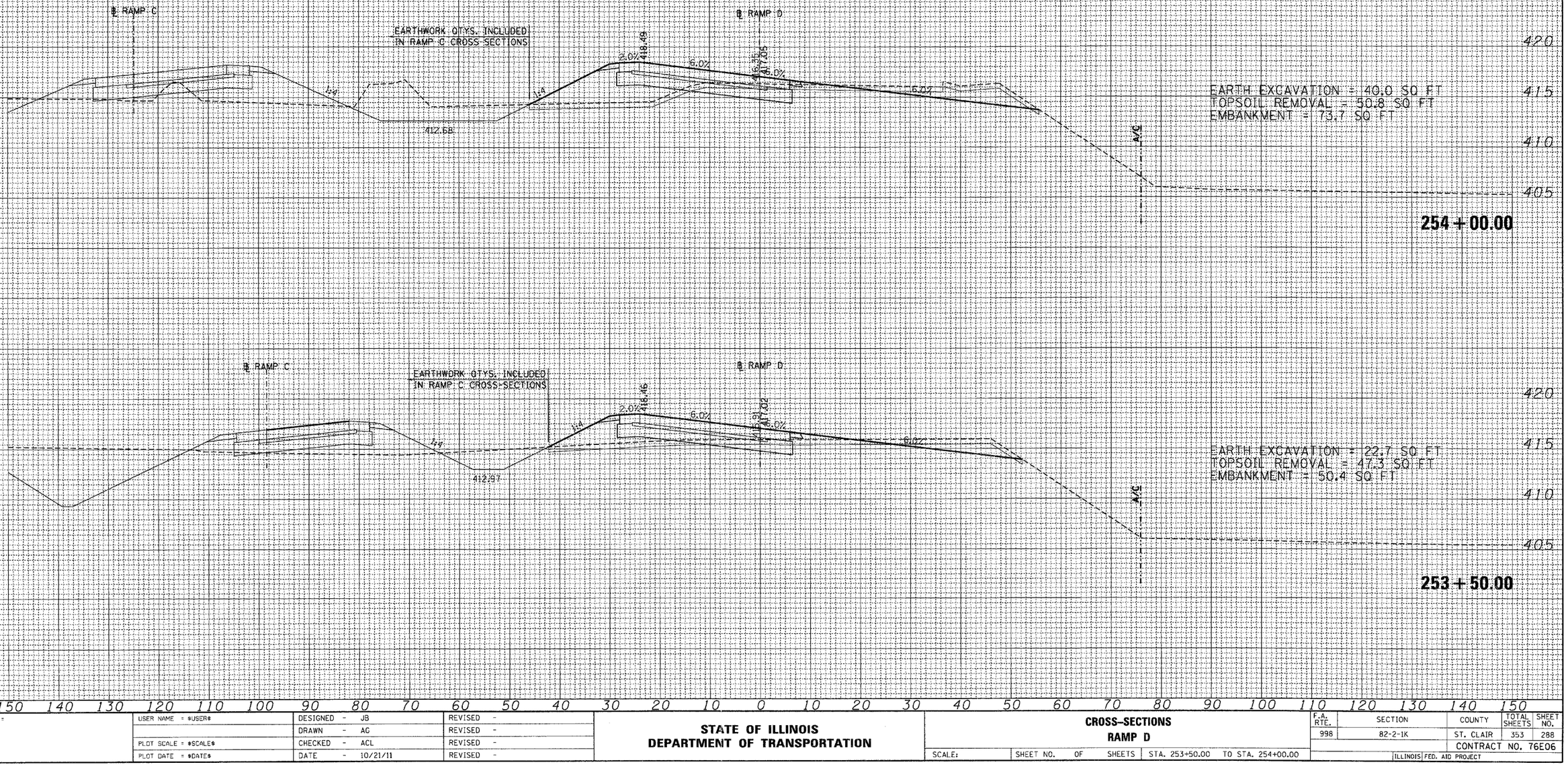
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

SCALE: | SHEET NO. OF SHEETS | STA. 252+00.00 TO STA. 253+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	287
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	
	ADDED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		DATE



ORIGINAL SURVEY	SURVEYED	BY	
	ADDED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		DATE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

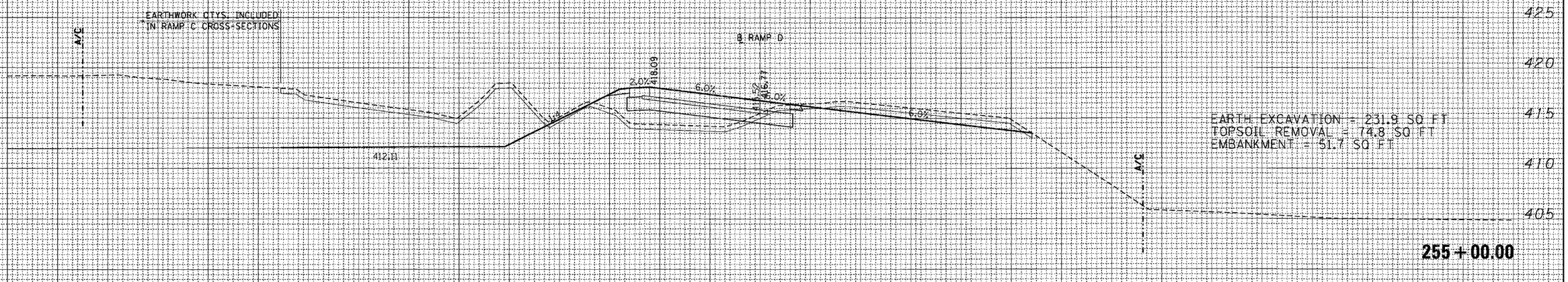
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

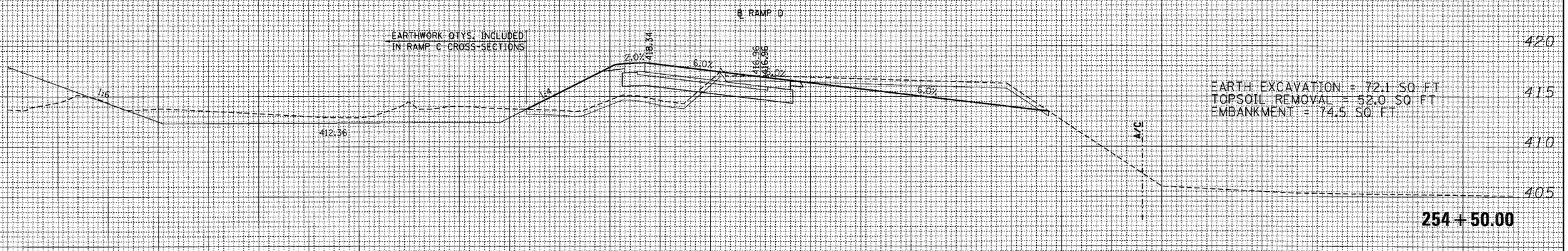
SCALE: | SHEET NO. OF SHEETS | STA. 253+50.00 TO STA. 254+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	288
		CONTRACT NO. 76E06		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

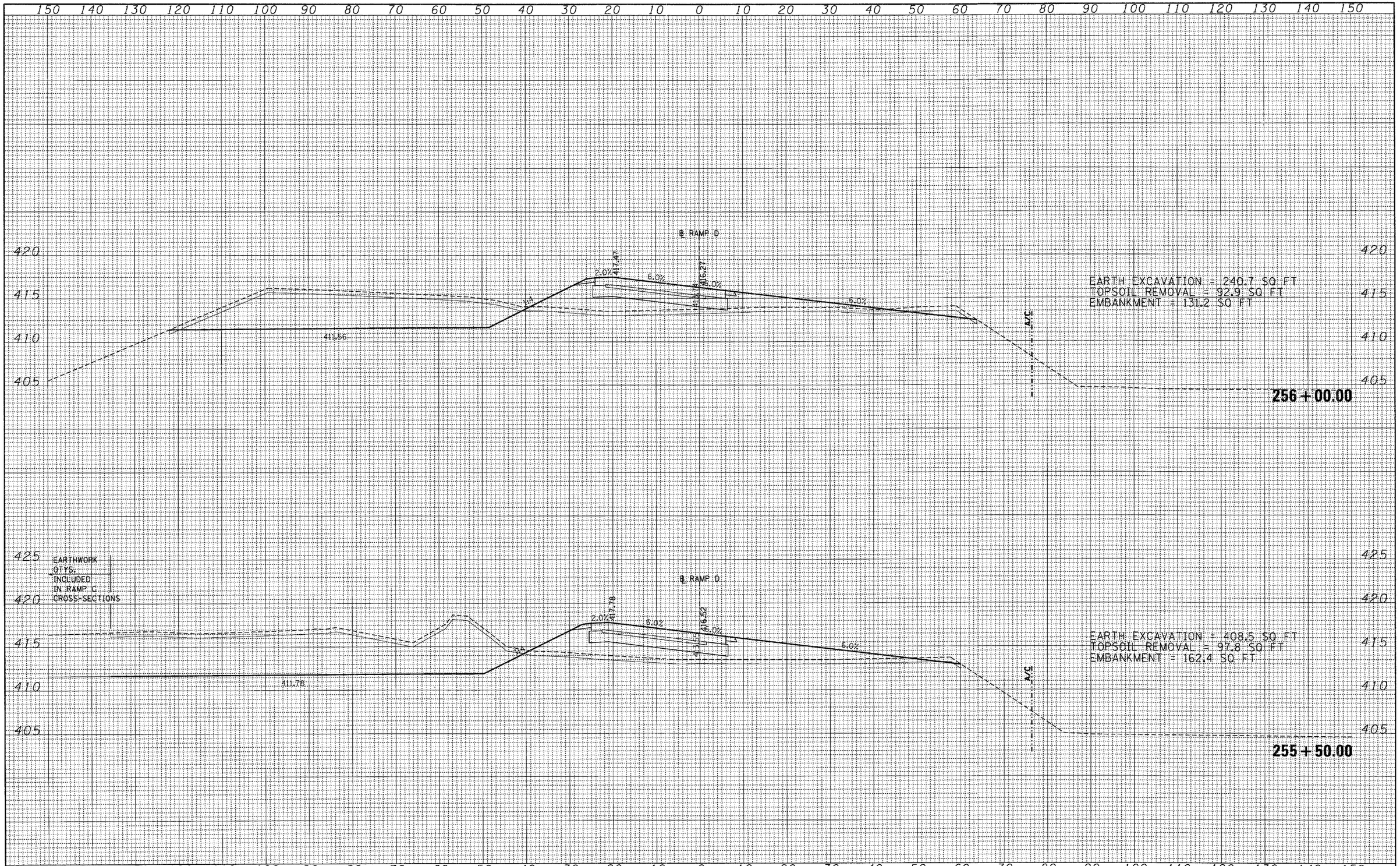
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

SCALE: | SHEET NO. OF SHEETS | STA. 254+50.00 TO STA. 255+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	289
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE



ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

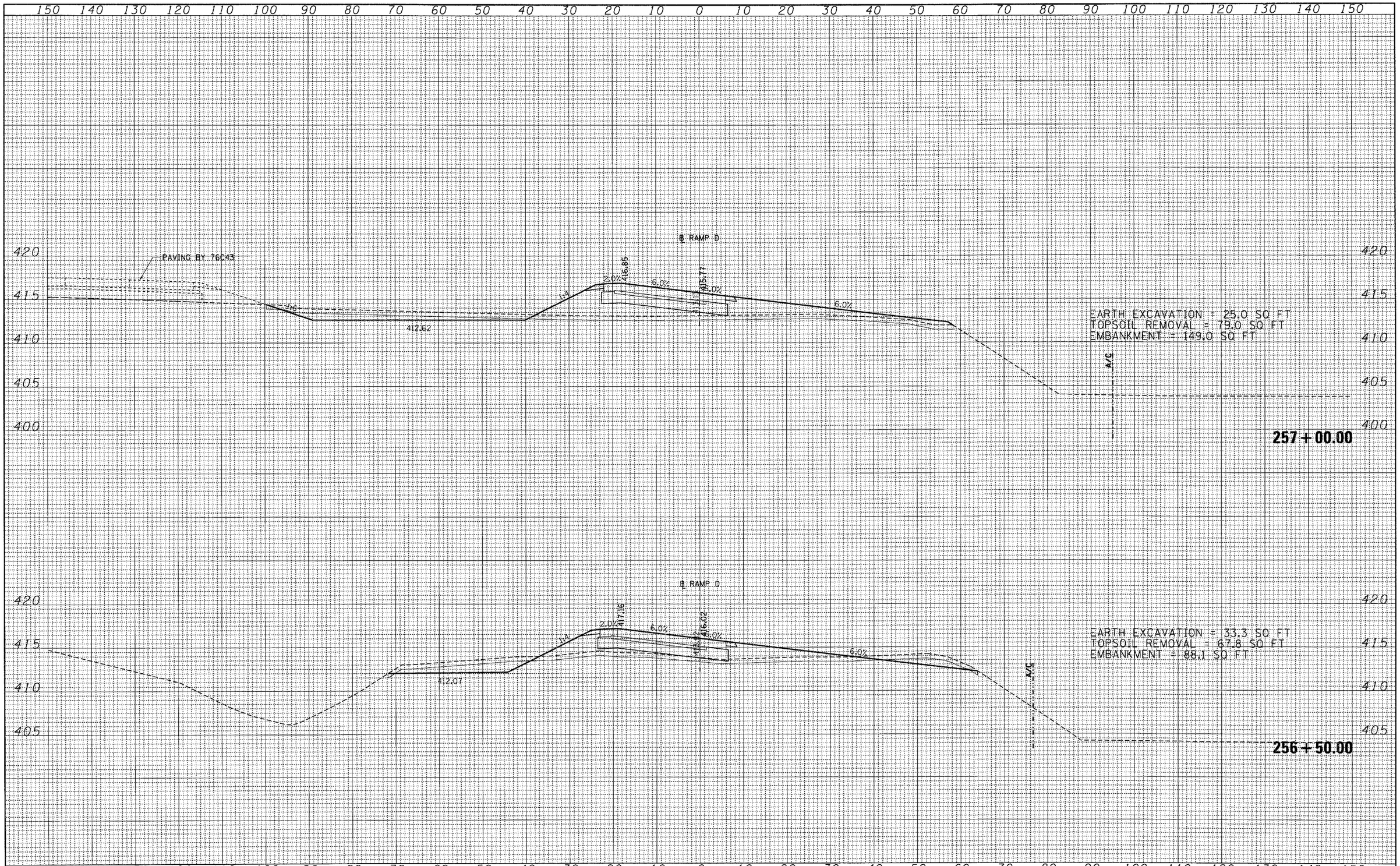
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

SCALE: | SHEET NO. OF SHEETS | STA. 255+50.00 TO STA. 256+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	290
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		



ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		

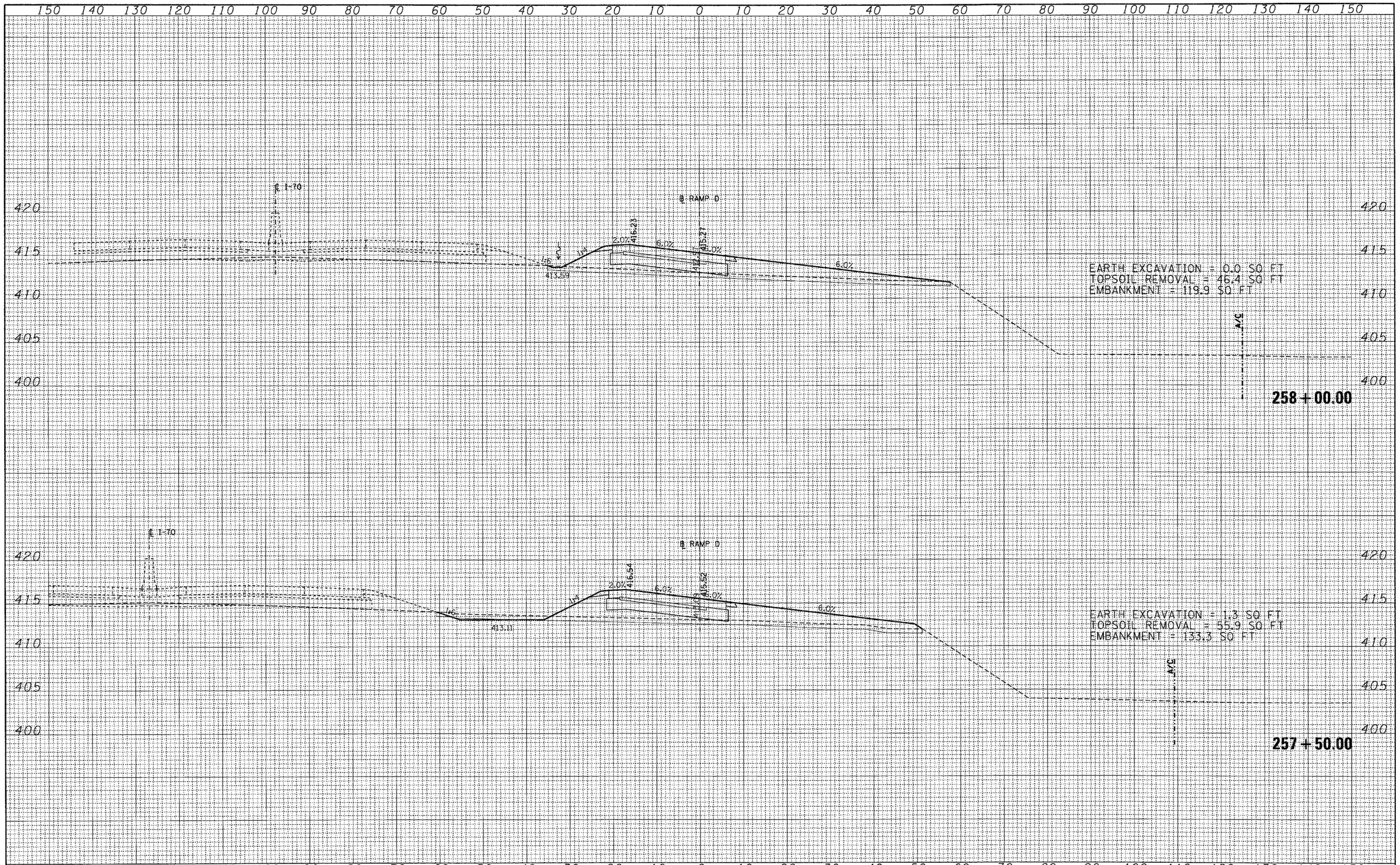
FILE NAME = ®FILE®	USER NAME = ®USER®	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = ®SCALE®	CHECKED - ACL	REVISED -
	PLOT DATE = ®DATE®	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

SCALE: | SHEET NO. OF SHEETS | STA. 256+50.00 TO STA. 257+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	291
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

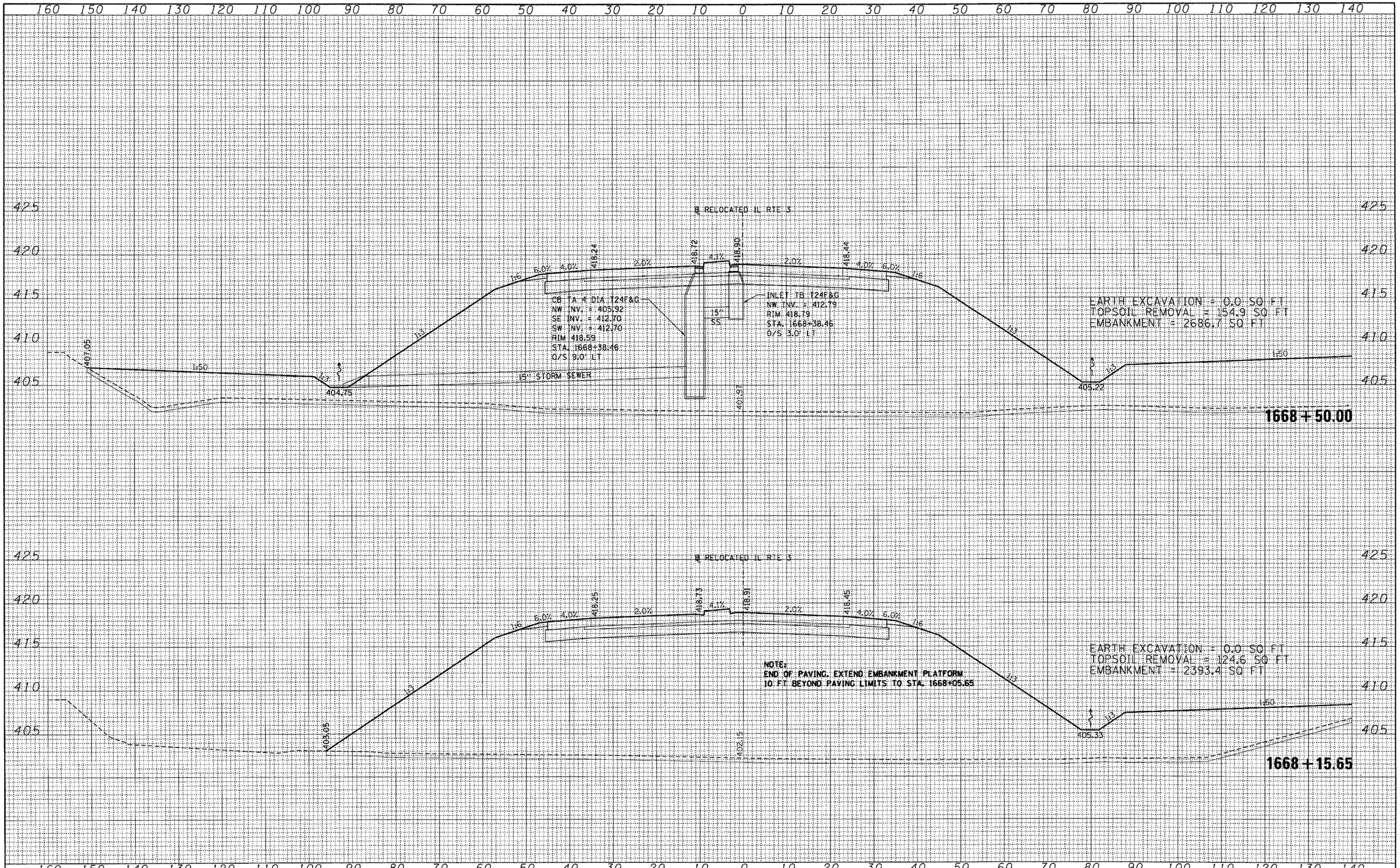
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS
RAMP D

SCALE: | SHEET NO. OF SHEETS | STA. 257+50.00 TO STA. 258+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	292
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		DATE



ORIGINAL SURVEY	SURVEYED	BY	
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		DATE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

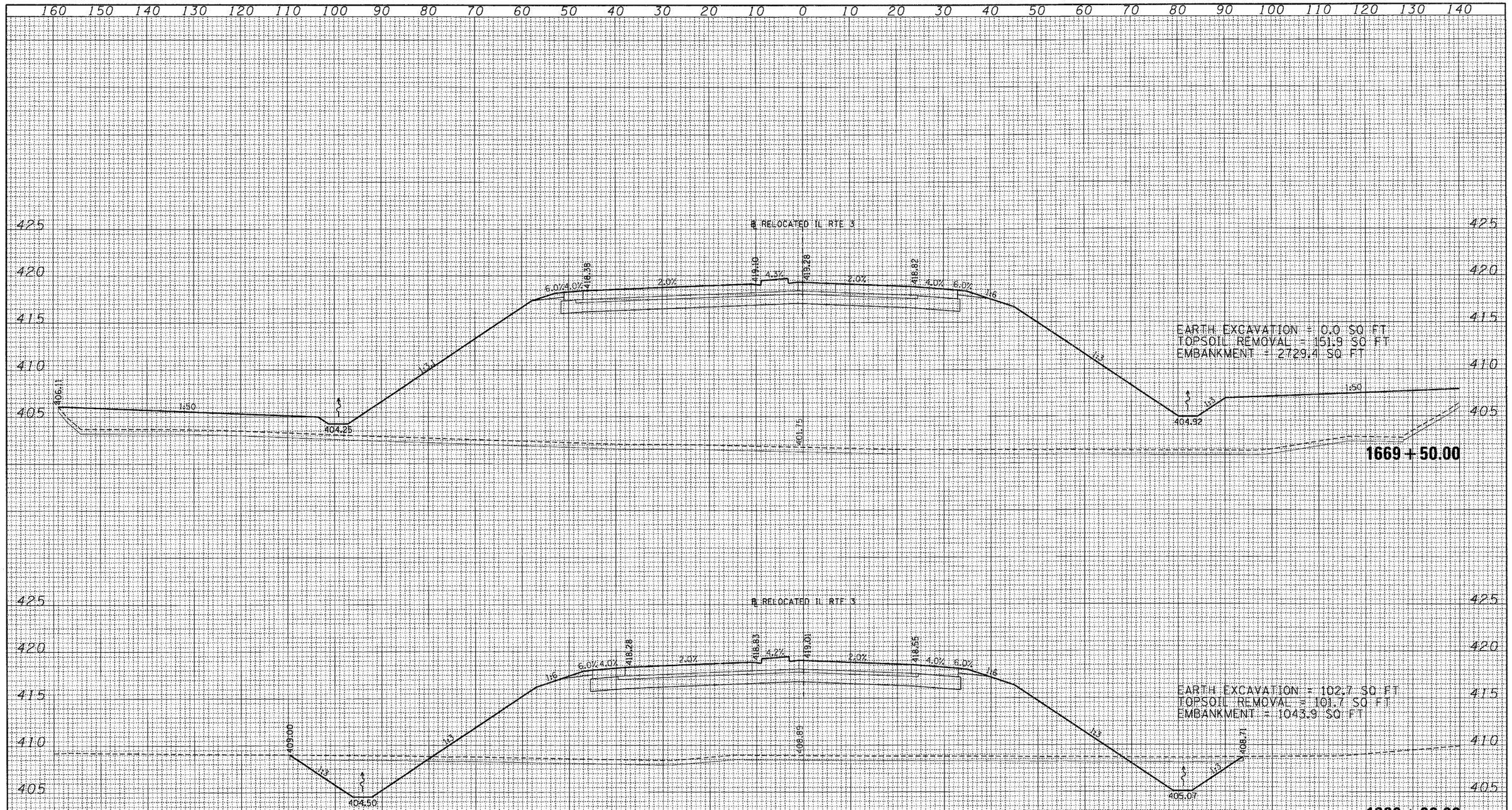
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1668+15.65 TO STA. 1668+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	293
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	



ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS CHECKED	

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1669+00.00 TO STA. 1669+50.00

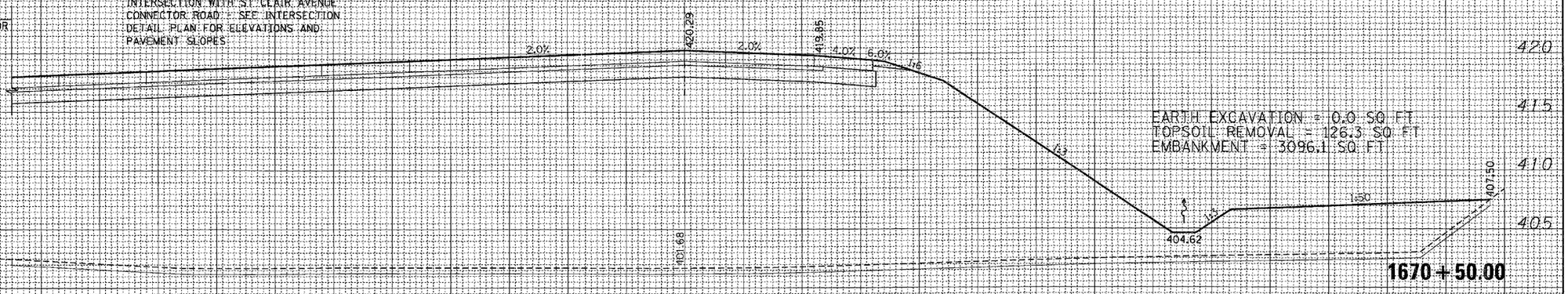
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	294
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

℄ RELOCATED IL RTE 3

EARTHWORK QTYS. INCLUDED IN ST. CLAIR AVE CONNECTOR CROSS-SECTIONS.

INTERSECTION WITH ST. CLAIR AVENUE CONNECTOR ROAD - SEE INTERSECTION DETAIL PLAN FOR ELEVATIONS AND PAVEMENT SLOPES.



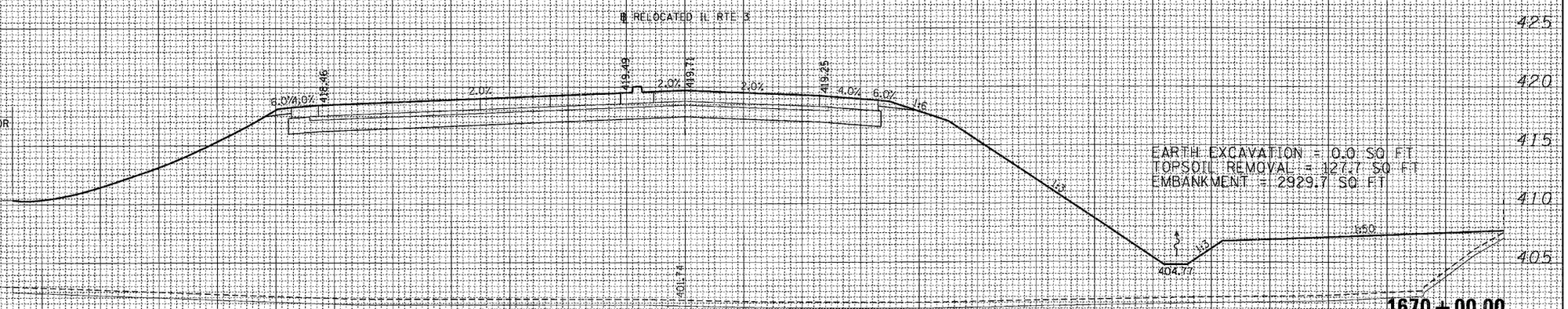
EARTH EXCAVATION = 0.0 SQ FT
TOPSOIL REMOVAL = 126.3 SQ FT
EMBANKMENT = 3096.1 SQ FT

1670+50.00

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

℄ RELOCATED IL RTE 3

EARTHWORK QTYS. INCLUDED IN ST. CLAIR AVE CONNECTOR CROSS-SECTIONS.



EARTH EXCAVATION = 0.0 SQ FT
TOPSOIL REMOVAL = 127.7 SQ FT
EMBANKMENT = 2929.7 SQ FT

1670+00.00

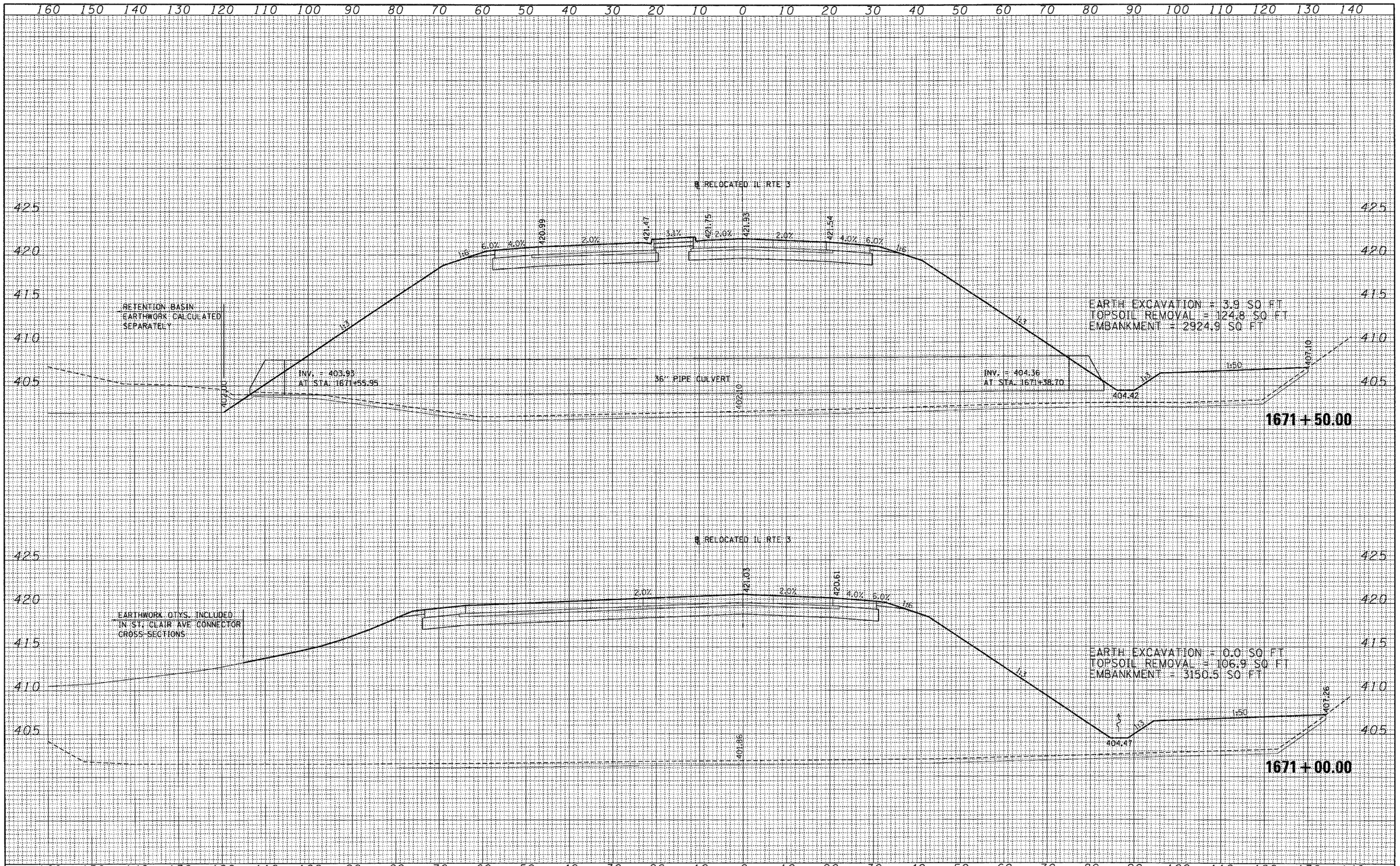
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1670+00.00 TO STA. 1670+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	295
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY — NOTE BOOK — NO.
SURVEYED — BY — DATE
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO.
SURVEYED — BY — DATE
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

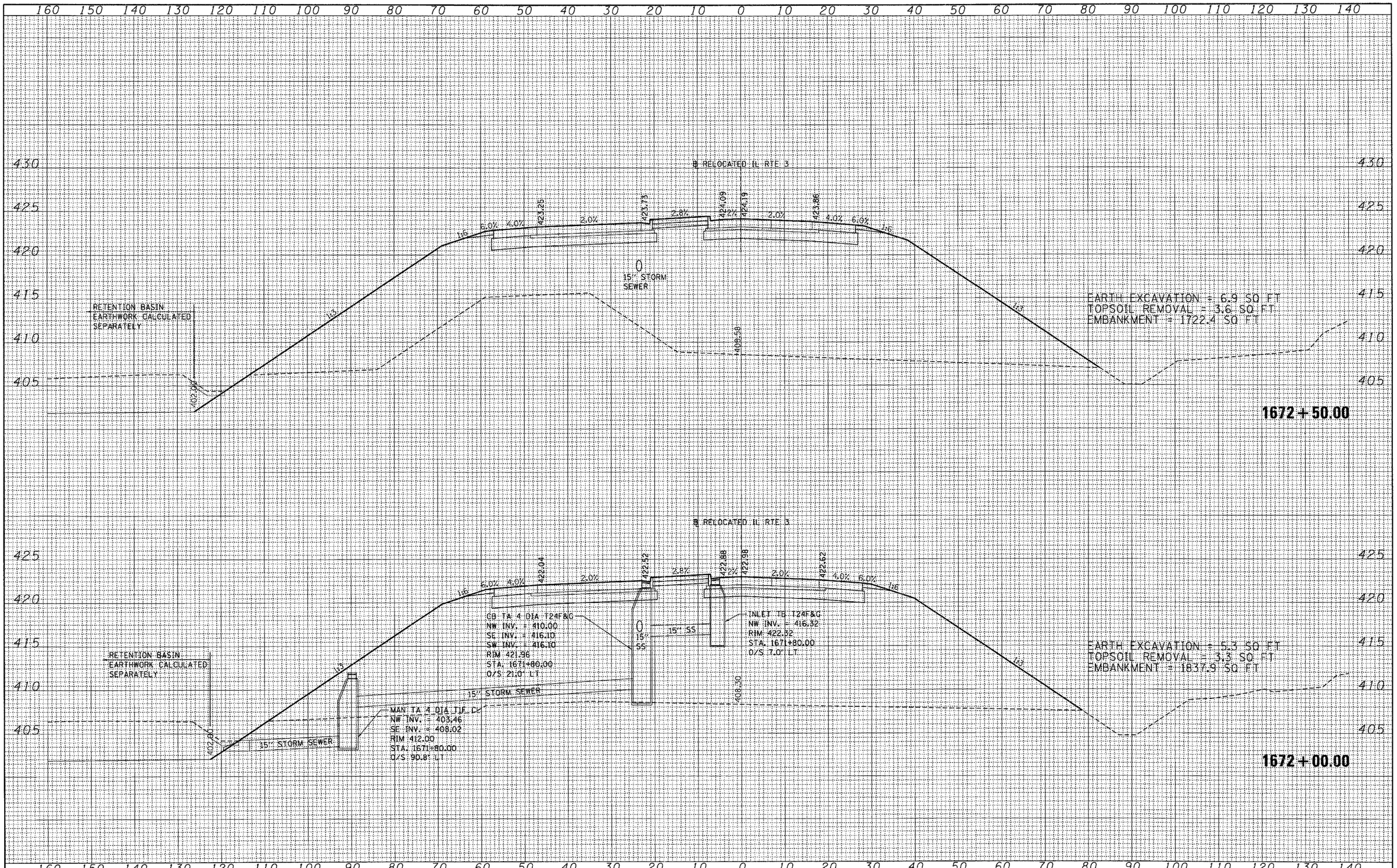
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1671+00.00 TO STA. 1671+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	296
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	SURVEYED	BY	DATE
ORIGINAL SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1672+00.00 TO STA. 1672+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	297
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

430 425 420 415 410 405

℄ RELOCATED IL RTE 3

1:6 6.0% 4.0% 426.13 2.0% 426.61 2.8% 426.97 427.07 2.0% 426.80 4.0% 1:6 6.0% 1:6

0
15" STORM SEWER

RETENTION BASIN
EARTHWORK CALCULATED
SEPARATELY

402.06

EARTH EXCAVATION = 13.0 SQ FT
TOPSOIL REMOVAL = 4.1 SQ FT
EMBANKMENT = 58.1 SQ FT

1673 + 50.00

℄ RELOCATED IL RTE 3

1:6 6.0% 4.0% 424.61 2.0% 425.09 2.8% 425.45 425.55 2.0% 425.25 4.0% 5.9% 1:6.1

0
15" STORM SEWER

RETENTION BASIN
EARTHWORK CALCULATED
SEPARATELY

402.06

EARTH EXCAVATION = 11.2 SQ FT
TOPSOIL REMOVAL = 3.9 SQ FT
EMBANKMENT = 60.2 SQ FT

1673 + 00.00

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

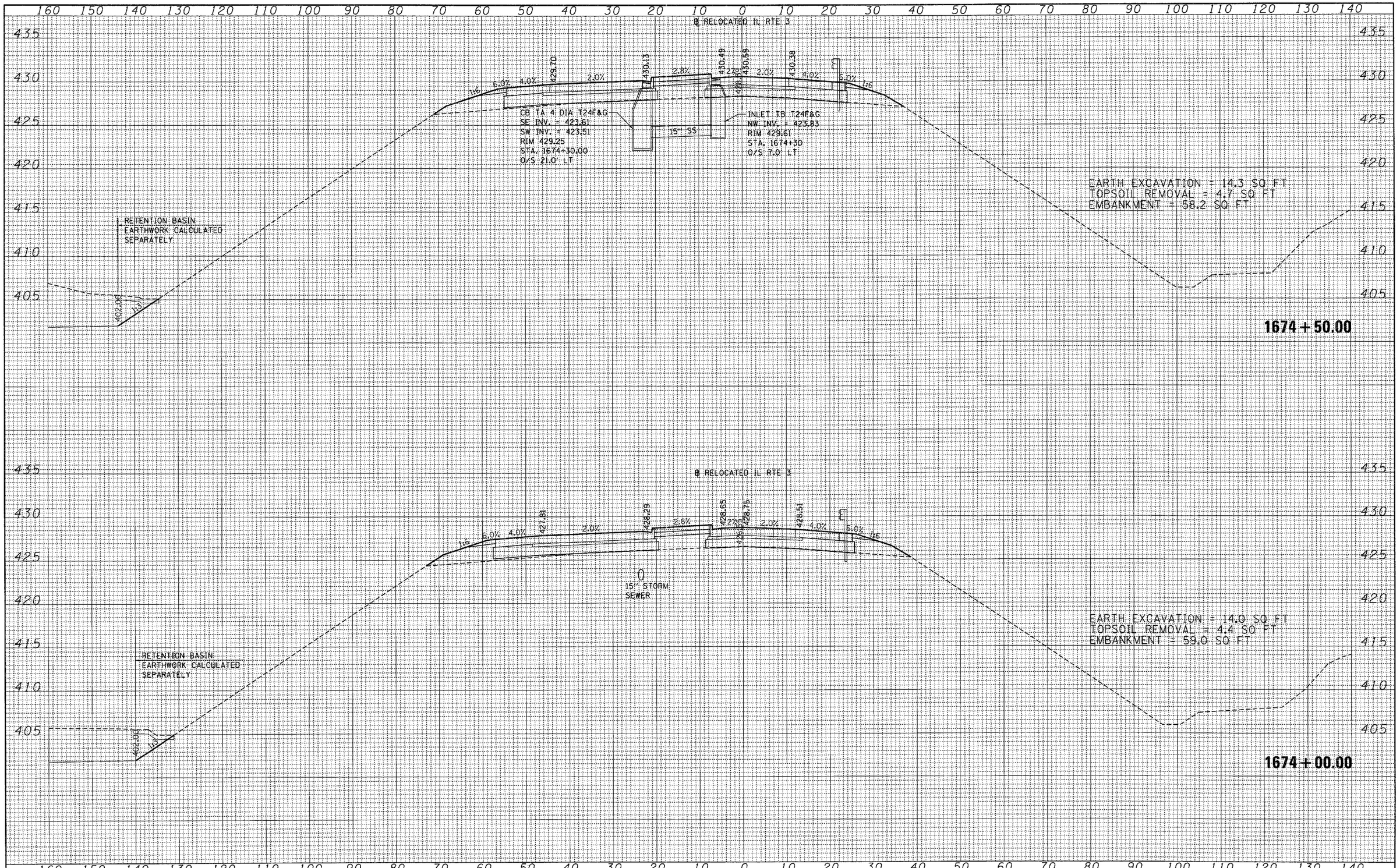
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1673+00.00 TO STA. 1673+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	298
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	COMPUTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	COMPUTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

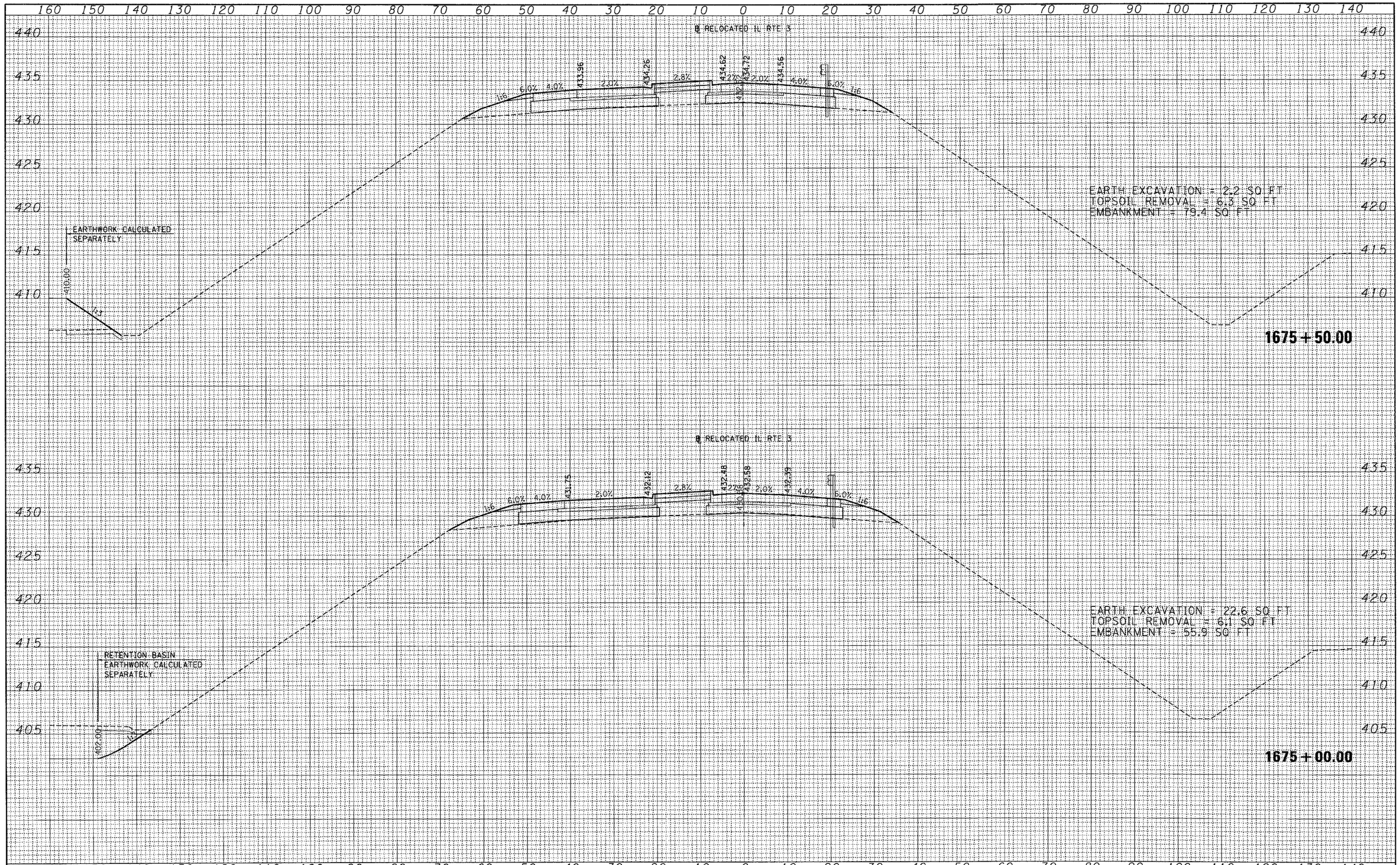
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1674+00.00 TO STA. 1674+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	299
		CONTRACT NO. 76E06		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED - JB	REVISED -
		DRAWN - AG	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ACL	REVISED -
	PLOT DATE = $DATE$	DATE - 10/21/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RELOCATED IL ROUTE 3

SCALE: | SHEET NO. OF SHEETS | STA. 1675+00.00 TO STA. 1675+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1K	ST. CLAIR	353	300
		CONTRACT NO. 76E06		
		ILLINOIS FED. AID PROJECT		