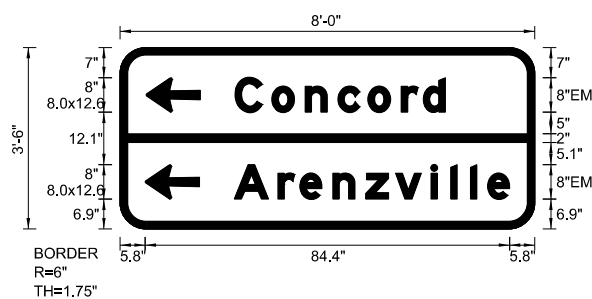


SIGN DETAIL
1:50



SIGN NUMBER	name 07
WIDTH x HIGHT.	8' -0" x 3' -6"
BORDER WIDTH	1.75"
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green/Green
LEGEND/BORDER	TYPE: Reflective COLOR: White / White

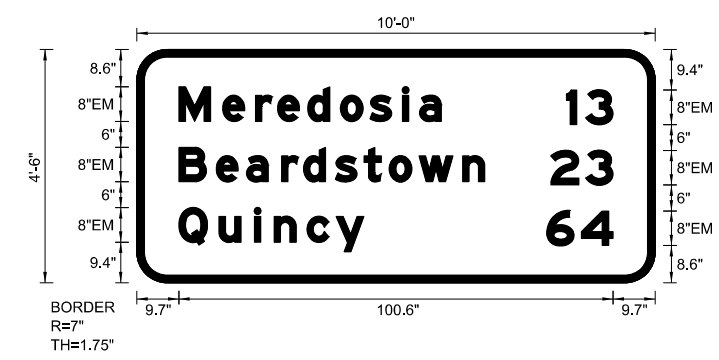
SYMBOL	X	Y	WID	HT
ARMED	6	27	8	12.6
ARMED	5.8	6.9	8	12.6

Panel Style: exp.advance.b.ssi
Dimensions: inches, tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE		
C	o	n	c	o	r	d										EM8/6
26.6	35.1	42.8	50.4	57.4	65.1	70.2										48.7
A	r	e	n	z	v	i	l	l	e							EM8/6
26.4	36.5	41.6	49.2	56.9	63.8	71.9	76.6	81.1	85.1							63.8

SIGN DETAIL
1:50



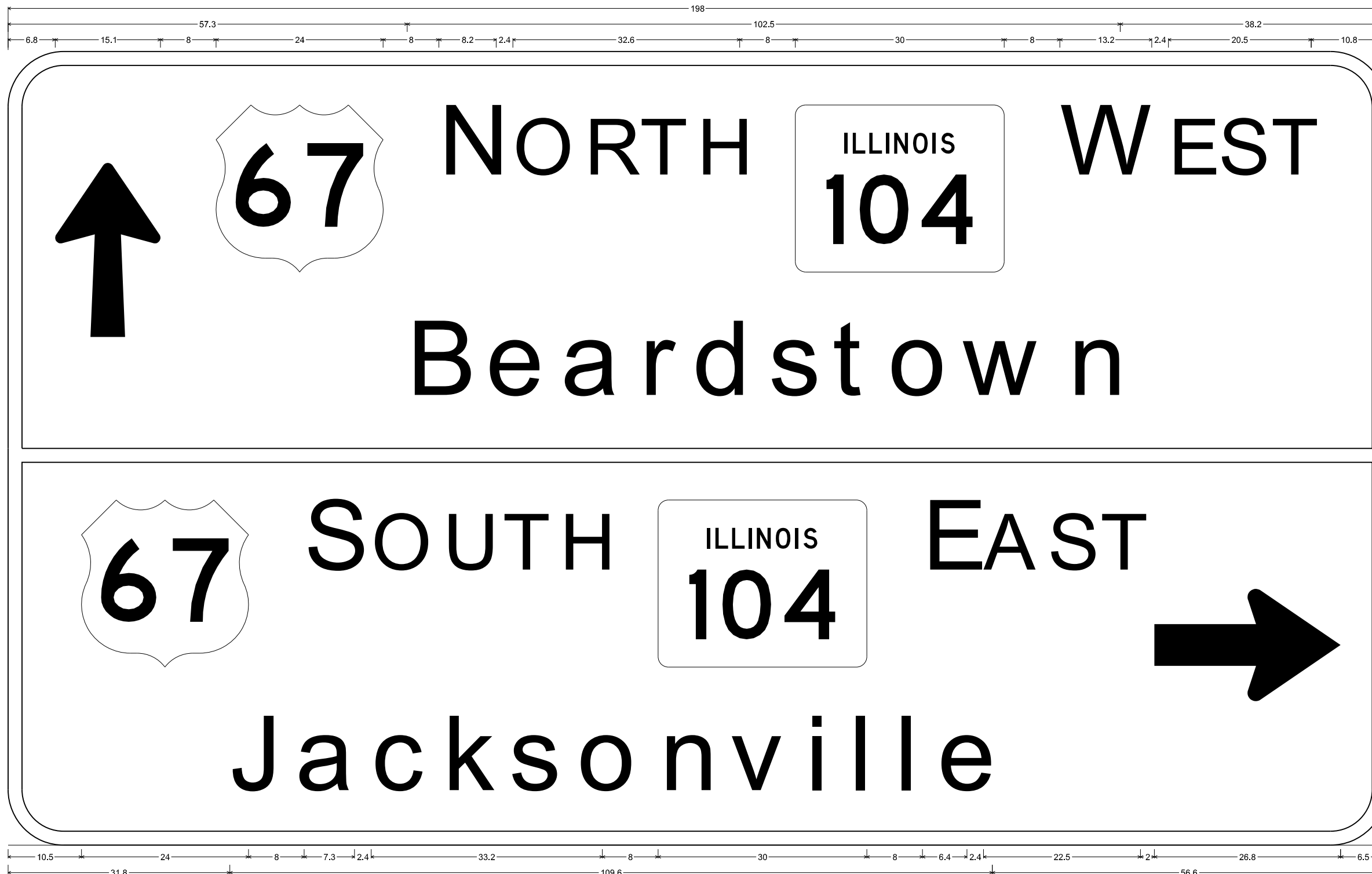
SIGN NUMBER	#12
WIDTH x HIGHT.	10' -0" x 4' -6"
BORDER WIDTH	1.75"
CORNER RADIUS	7"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White / White

SYMBOL	X	Y	WID	HT

Panel Style: exp.distance.ssi
Dimensions: inches, tenths

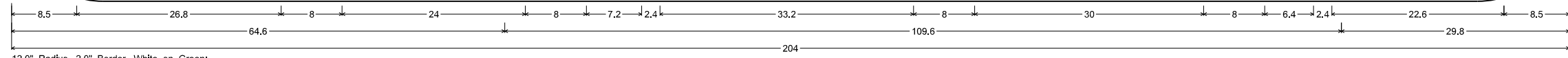
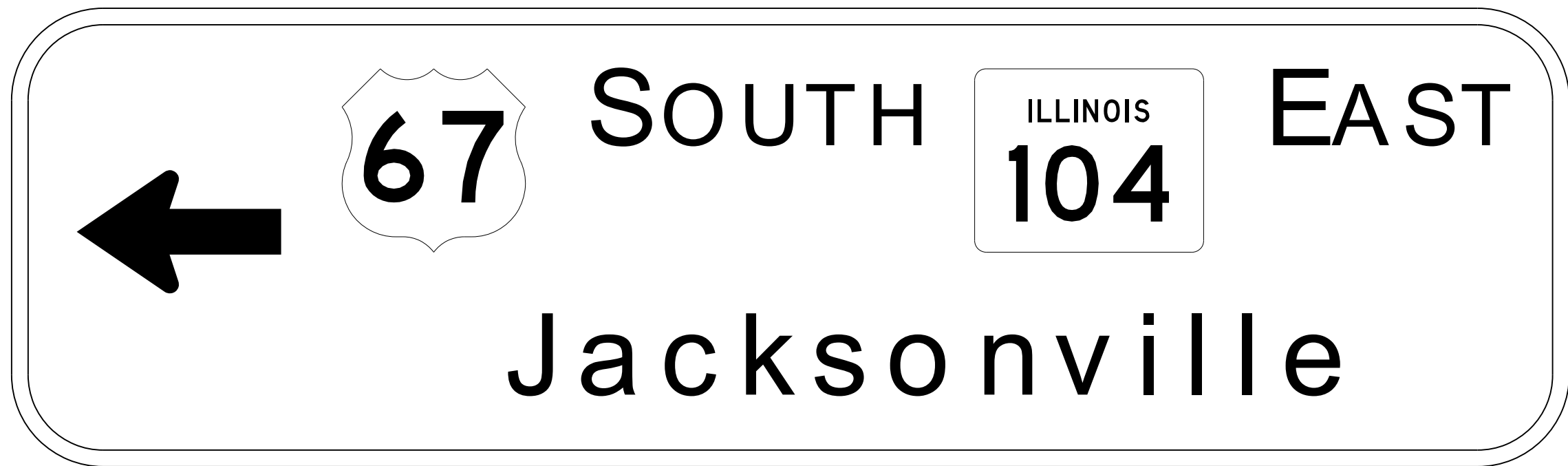
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE		
M	e	r	e	d	o	s	i	a								EM8/6
9.7	19.8	27.5	32.5	39.5	47.1	54	61.4	65.4								60.8
1	3															EM8
99.5	103.9															10.8
B	e	a	r	d	s	t	o	w	n							EM8/6
9.7	18.3	25.3	33.5	38.6	45.9	52.6	58.4	65.3	75.4							70.8
2	3															EM8
95.8	103.9															14.4
Q	u	i	n	c	y											EM8/6
9.7	19	27.2	31.8	39.4	46.1											42.9
6	4															EM8
94.9	102.9															15.4



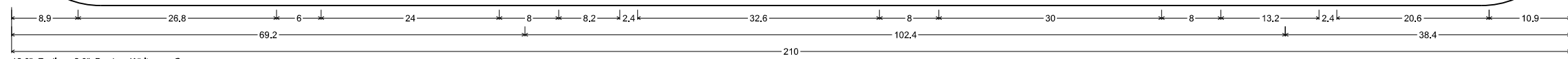
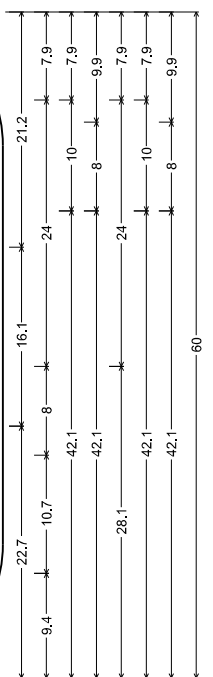
12.0" Radius, 2.0" Border, White on Green;
 Arrow 80 - 25.0° 90°; [N ORTH] ClearviewHwy-5-W; [W EST] ClearviewHwy-5-W; [Beardstown] ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 [S OUTH] ClearviewHwy-5-W; [E AST] ClearviewHwy-5-W; [Jacksonville] ClearviewHwy-5-W; Standard Arrow Custom 26.8" X 16.1" 0°;
 Table of distances between letter and object lefts.

↑	Ⓢ	N	O	R	T	H	Ⓢ	W	E	S	T	
6.8	23.1	32.0	10.6	10.3	8.0	8.2	14.1	38.0	15.6	7.2	7.6	10.8
B	e	a	r	d	s	t	o	w	n			
57.3	11.4	10.8	11.3	7.6	10.9	9.1	8.1	10.6	15.3	7.4	38.2	
Ⓢ	S	O	U	T	H	Ⓢ	E	A	S	T	⇒	
10.5	32.0	9.7	10.3	8.6	8.1	14.2	38.0	8.8	9.2	7.5	7.8	26.8
J	a	c	k	s	o	n	v	i	l	i	e	
31.8	9.5	10.9	10.3	9.5	9.8	11.9	10.1	10.7	6.4	6.5	6.2	56.6



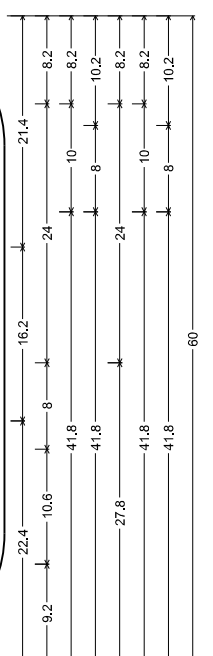
12.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 26.8" X 16.1" 180°; [S OUTH] ClearviewHwy-5-W; [E AST] ClearviewHwy-5-W; [Jacksonville] ClearviewHwy-5-W;
 Table of distances between letter and object lefts.

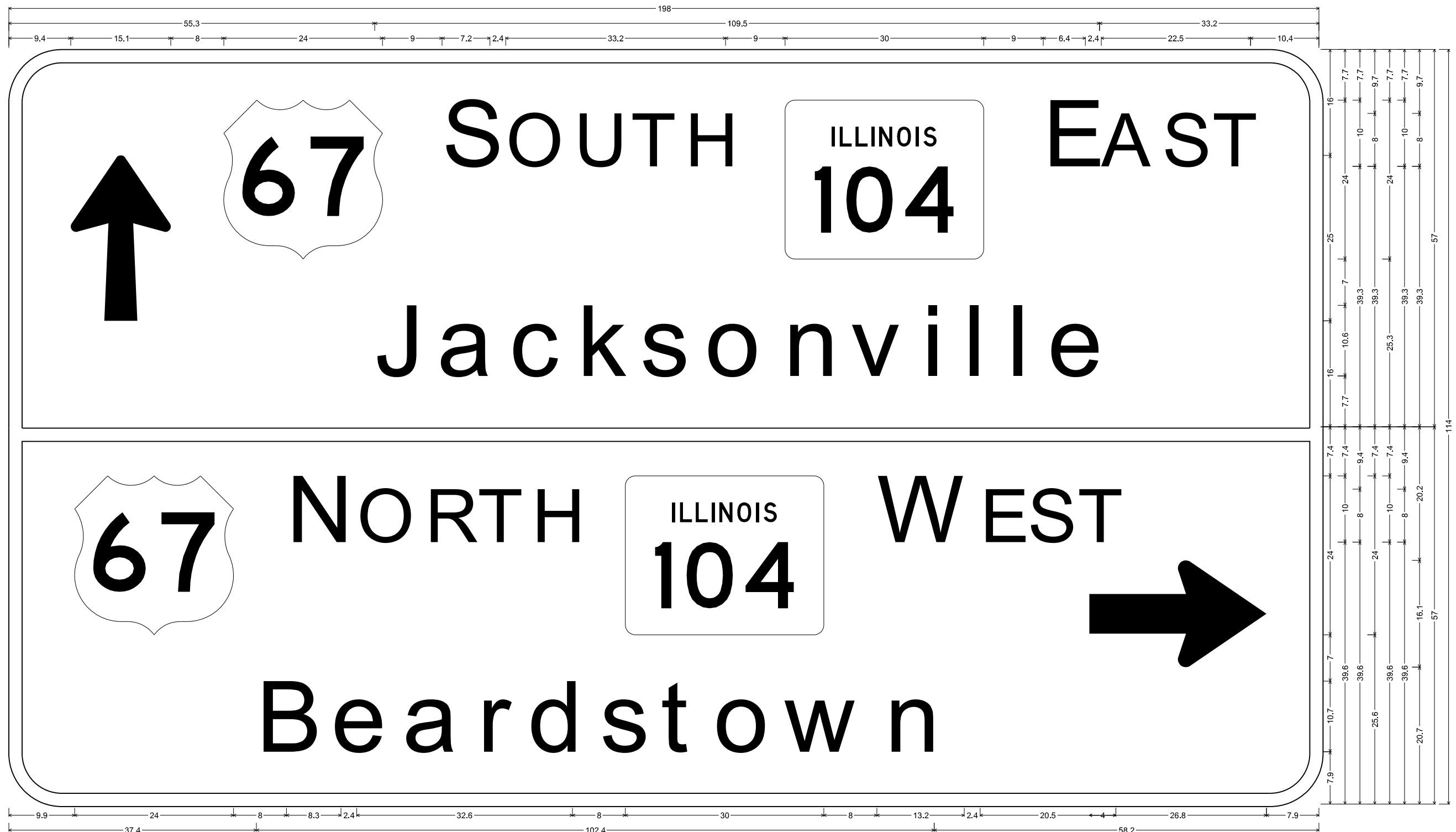
←	67	S	O	U	T	H	ILLINOIS	E	A	S	T		
8.5	34.8	32.0	9.6	10.3	8.6	8.2	14.1	38.0	8.8	9.2	7.6	5.8	8.5
64.6	9.5	10.9	10.2	9.5	9.9	11.8	10.2	10.7	6.3	6.6	6.1	7.9	29.8



12.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 26.8" X 16.1" 180°; [N ORTH] ClearviewHwy-5-W; [W EST] ClearviewHwy-5-W; [Beardstown] ClearviewHwy-5-W;
 Table of distances between letter and object lefts.

←	67	N	O	R	T	H	ILLINOIS	W	E	S	T		
8.9	32.8	32.0	10.6	10.3	8.0	8.2	14.1	38.0	15.6	7.2	7.6	5.8	10.9
69.2	11.3	10.8	11.3	7.6	10.9	9.2	8.0	10.6	15.3	7.4	38.4		





12.0" Radius, 2.0" Border, White on Green;
 Arrow 80 - 25.0" 90°; [SOUTH] ClearviewHwy-5-W; [EAST] ClearviewHwy-5-W; [Jacksonville] ClearviewHwy-5-W;
 12.0" Radius, 2.0" Border, White on Green;
 [NORTH] ClearviewHwy-5-W; [WEST] ClearviewHwy-5-W; [Beardstown] ClearviewHwy-5-W; Standard Arrow Custom 26.8" X 16.1" 0°;
 Table of distances between letter and object lefts.

9.4	23.1	33.0	9.6	10.3	8.6	8.2	15.1	39.0	8.8	9.2	7.6	5.7	10.4
55.3	9.4	11.0	10.2	9.5	9.8	11.9	10.1	10.8	6.3	6.6	6.1	7.8	33.2
9.9	32.0	10.7	10.3	7.9	8.2	14.2	38.0	15.6	7.2	7.5	1.8	26.8	7.9
37.4	11.3	10.8	11.3	7.6	10.9	9.2	8.0	10.7	15.2	7.4	58.2		

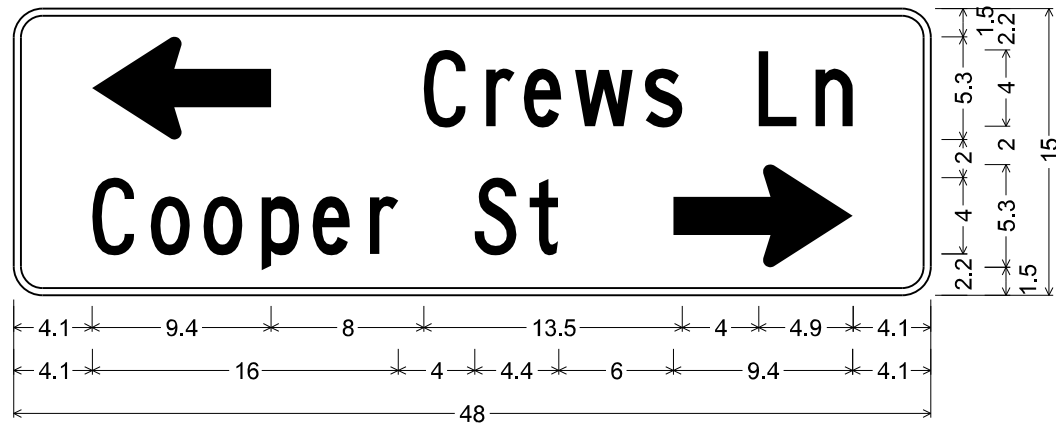
FILE NAME =	USER NAME = Sparksgw	DESIGNED -	REVISED -
ei:\pw\work\p1dot\sparksgw\10264881\Sign	Details.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Mar-30-2011 08:50:07AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGN DETAILS
FAP 310 (US 67/L 104)**

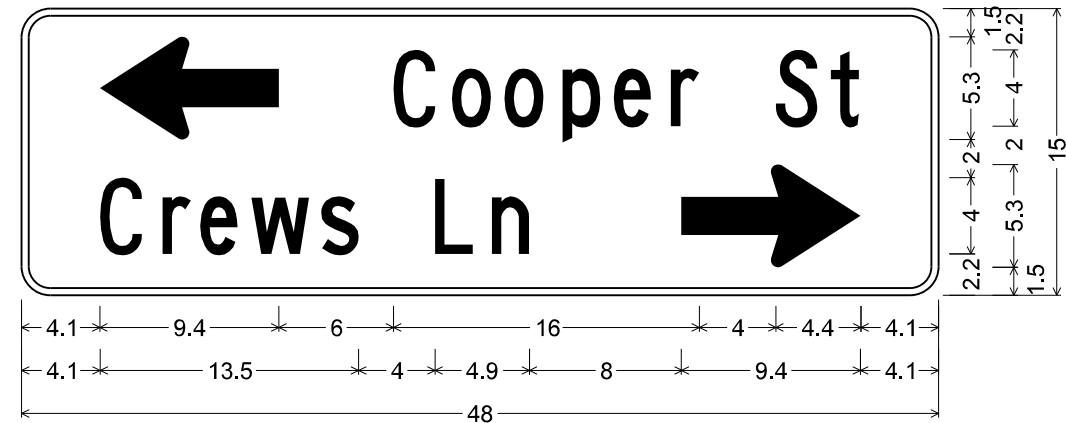
SCALE: SHEET NO. 7 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION 10/10	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	304
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



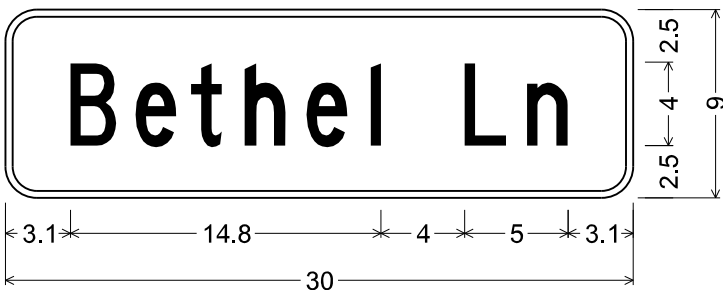
1.5" Radius, 0.4" Border, Black on Yellow;
 Standard Arrow Custom 9.4" X 5.4" 180°; [Crews Ln] C; [Cooper St] C;
 Standard Arrow Custom 9.4" X 5.4" 0°;
 Table of distances between letter and object lefts.

4.1	←	C	r	e	w	s	L	n	4.1
17.4	3.2	2.0	2.7	3.6	6.0	3.0	1.9	4.1	
4.1	C	o	o	p	e	r	S	t	→
3.1	3.1	2.7	3.1	2.6	3.0	5.5	2.9	7.5	9.4



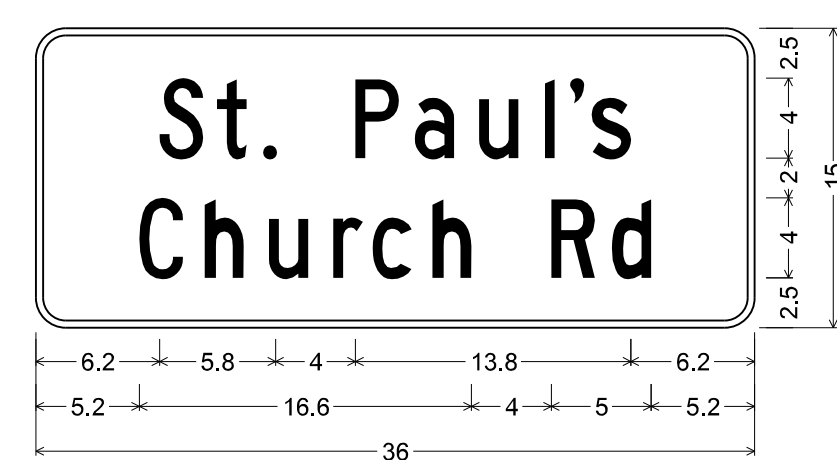
1.5" Radius, 0.4" Border, Black on Yellow;
 Standard Arrow Custom 9.4" X 5.4" 180°; [Cooper St] C; [Crews Ln] C;
 Standard Arrow Custom 9.4" X 5.4" 0°;
 Table of distances between letter and object lefts.

4.1	←	C	o	o	p	e	r	S	t	4.1
15.4	3.1	2.7	3.1	2.6	3.0	5.5	2.9	1.5	4.1	
4.1	C	r	e	w	s	L	n	→	4.1	
3.2	2.0	2.7	3.6	6.0	3.0	9.9	9.4	4.1		



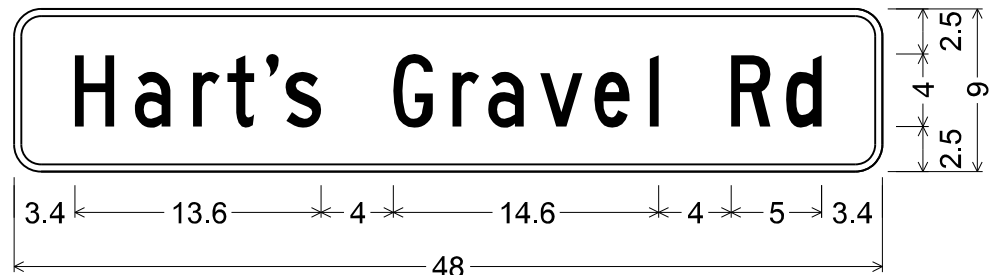
1.5" Radius, 0.4" Border, Black on Yellow;
 [Bethel Ln] C;
 Table of distances between letter and object lefts.

3.1	B	e	t	h	e	l	L	n	3.1
3.1	3.1	2.7	2.5	3.0	3.0	4.5	3.0	2.0	3.1



1.5" Radius, 0.4" Border, Black on Yellow;
 [St. Paul's] C; [Church Rd] C;
 Table of distances between letter and object lefts.

6.2	S	t	.	P	a	u	l	'	s	6.2
2.9	2.3	4.6	3.0	3.2	3.2	1.4	1.0	2.0	6.2	
5.2	C	h	u	r	c	h	R	d	5.2	
3.3	3.2	3.2	2.0	3.0	5.9	3.1	1.9	5.2		

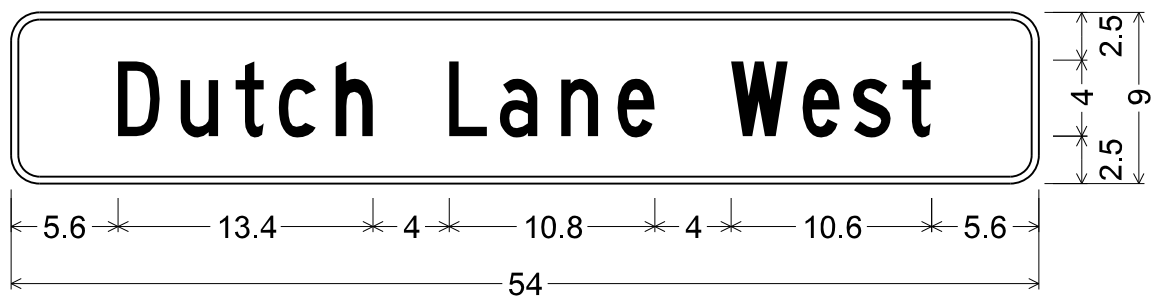


1.5" Radius, 0.4" Border, Black on Yellow;

[Hart's Gravel Rd] C;

Table of distances between letter and object lefts.

3.4	H	a	r	t	'	s	G	r	a	v	e	l
3.4	3.3	3.2	1.9	2.2	1.0	6.0	3.2	2.0	2.9	3.0	3.0	
	R	d										
4.5	3.1	1.9	3.4									



1.5" Radius, 0.4" Border, Black on Yellow;

[Dutch Lane West] C;

Table of distances between letter and object lefts.

5.6	D	u	t	c	h	L	a	n	e	W	e	s	t	
5.6	3.3	2.9	2.3	3.0	5.9	2.7	3.2	3.0	5.9	3.8	2.6	2.6	1.6	5.6

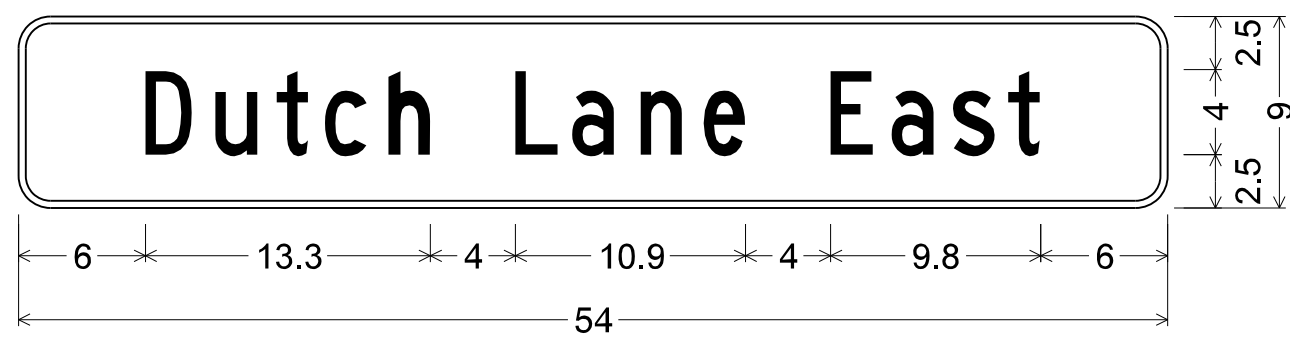


6.0" Radius, 1.3" Border, White on Green;

Standard Arrow Custom 13.4" X 8.1" 180°; [Beardstown] E Mod; [Jacksonville] E Mod; Standard Arrow Custom 13.4" X 8.1" 0°;

Table of distances between letter and object lefts.

13.0	←	B	e	a	r	d	s	t	o	w	n	→		
13.0	21.3	8.7	6.9	8.2	5.0	7.4	6.6	5.8	6.9	10.1	5.1	9.0		
9.0	J	a	c	k	s	o	n	v	i	l	i	e	→	
9.0	8.7	7.5	7.6	6.6	6.8	7.7	7.4	8.2	4.6	4.5	4.0	13.1	13.3	5.0

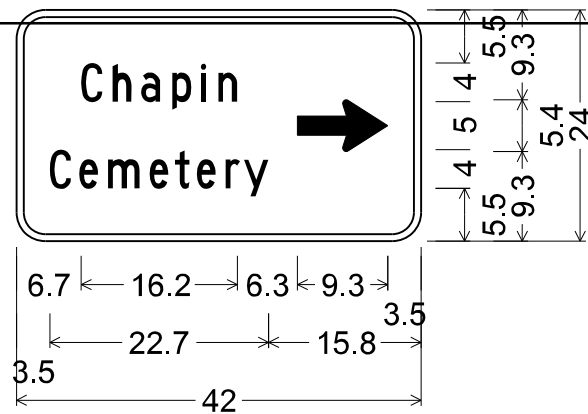


1.5" Radius, 0.4" Border, Black on Yellow;

[Dutch Lane East] C;

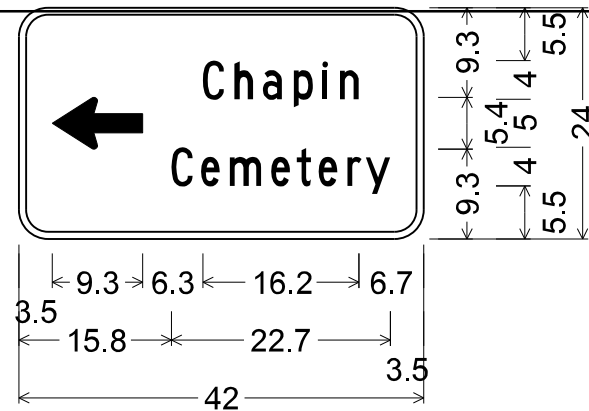
Table of distances between letter and object lefts.

6.0	D	u	t	c	h	L	a	n	e	E	a	s	t	
6.0	3.2	2.9	2.3	3.0	5.9	2.7	3.2	3.0	6.0	2.8	2.9	2.6	1.5	6.0



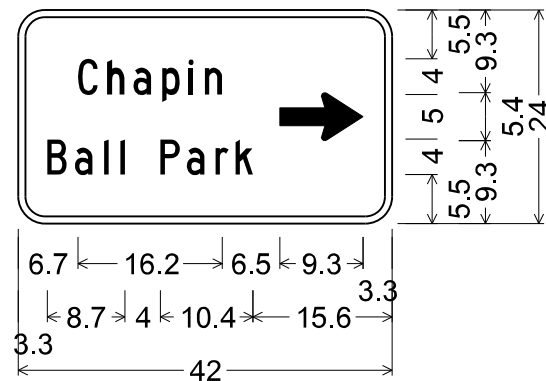
3.0" Radius, 1.0" Border, White on Brown;
 [Chapin] C;
 [Cemetery] C;
 Standard Arrow Custom 9.4" X 5.4" 0°;
 Table of distances between letter and object lefts.

6.7	C	h	a	p	i	n				
	3.3	2.9	3.3	2.9	1.9					
		→								
	8.2	9.3	3.5							
3.5	C	e	m	e	t	e	r	y	2.6	15.8
	3.0	3.0	4.3	2.7	2.2	3.0	1.9	2.6		



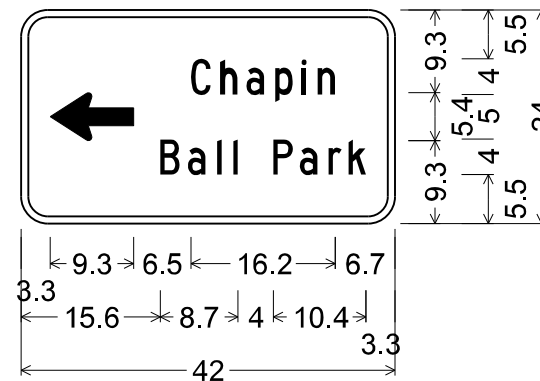
3.0" Radius, 1.0" Border, White on Brown;
 Standard Arrow Custom 9.4" X 5.4" 180°;
 [Chapin] C;
 [Cemetery] C;
 Table of distances between letter and object lefts.

3.5	←								
		9.3	6.3	16.2	6.7				
		15.8	22.7		3.5				
		C	h	a	p	i	n		
		15.6	3.3	2.9	3.2	3.0	1.8	2.0	6.7
15.8	C	e	m	e	t	e	r	y	3.5
	3.1	3.0	4.3	2.6	2.3	3.0	1.9	2.5	



3.0" Radius, 1.0" Border, White on Brown;
 [Chapin] C;
 [Ball Park] C;
 Standard Arrow Custom 9.4" X 5.4" 0°;
 Table of distances between letter and object lefts.

6.7	C	h	a	p	i	n
	3.3	2.9	3.3	2.9	1.9	
		→				
	8.4	9.3	3.3			
3.3	B	a	l	l		
	3.1	3.2	1.8			
		P	a	r	k	
	4.6	2.9	3.3	2.2	2.0	15.6



3.0" Radius, 1.0" Border, White on Brown;
 Standard Arrow Custom 9.4" X 5.4" 180°;
 [Chapin] C;
 [Ball Park] C;
 Table of distances between letter and object lefts.

3.3	←								
		9.3	6.5	16.2	6.7				
		15.6	8.7	4	10.4	3.3			
		C	h	a	p	i	n		
		15.8	3.3	2.9	3.2	3.0	1.8	2.0	6.7
15.6	B	a	l	l					
	3.1	3.3	1.8						
		P	a	r	k				
	4.5	3.0	3.2	2.3	1.9	3.3			

1:29:03 PM

May-19-2011 01:29:03PM

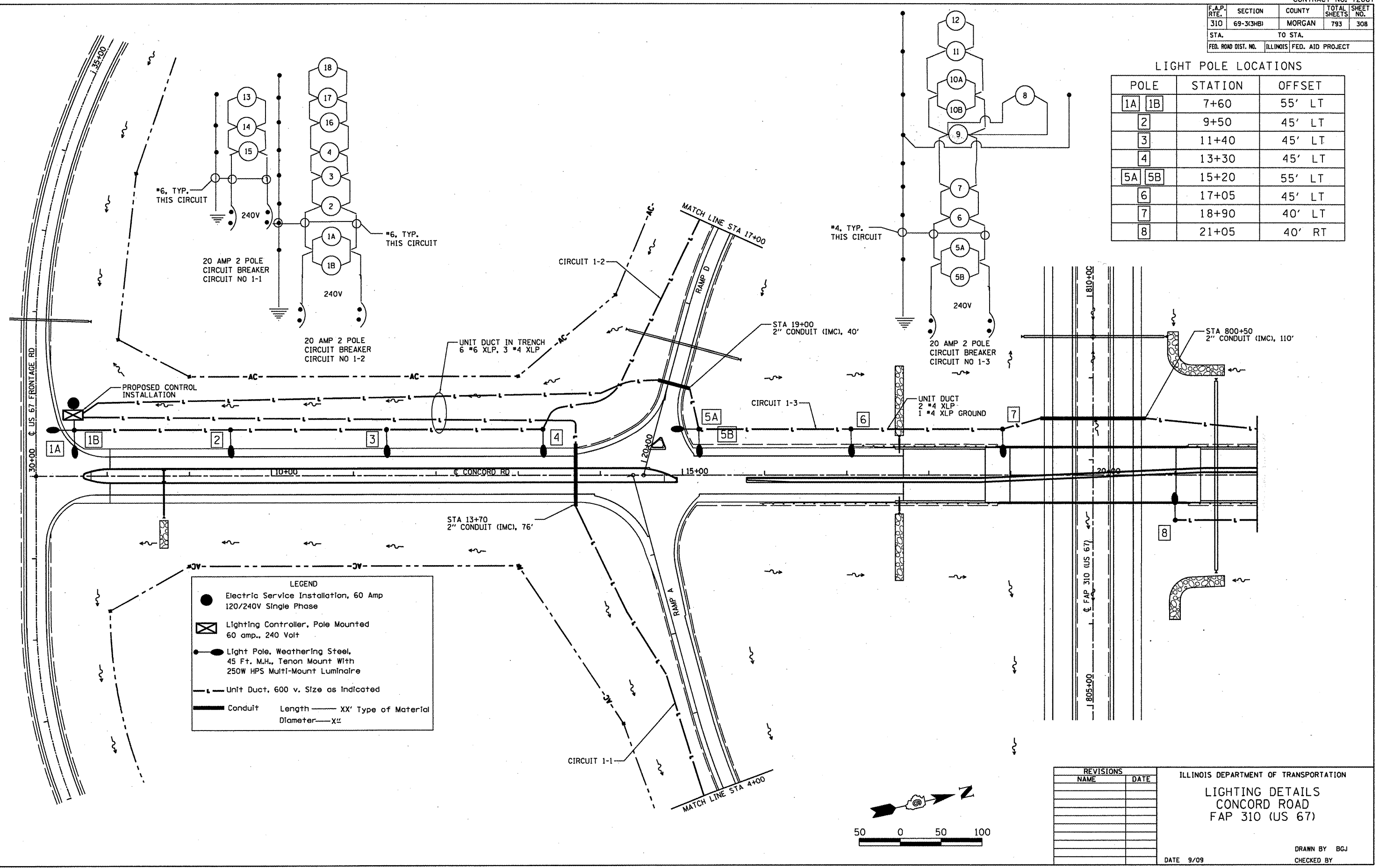
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	308
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

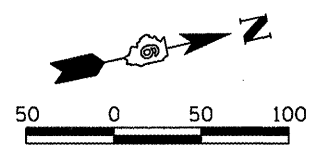
LIGHT POLE LOCATIONS

POLE	STATION	OFFSET
1A 1B	7+60	55' LT
2	9+50	45' LT
3	11+40	45' LT
4	13+30	45' LT
5A 5B	15+20	55' LT
6	17+05	45' LT
7	18+90	40' LT
8	21+05	40' RT



LEGEND

- Electric Service Installation, 60 Amp 120/240V Single Phase
- ⊠ Lighting Controller, Pole Mounted 60 amp., 240 Volt
- Light Pole, Weathering Steel, 45 Ft. M.H., Tenon Mount With 250W HPS Multi-Mount Luminaire
- Unit Duct, 600 v. Size as Indicated
- Conduit Length — XX' Type of Material Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
CONCORD ROAD
FAP 310 (US 67)

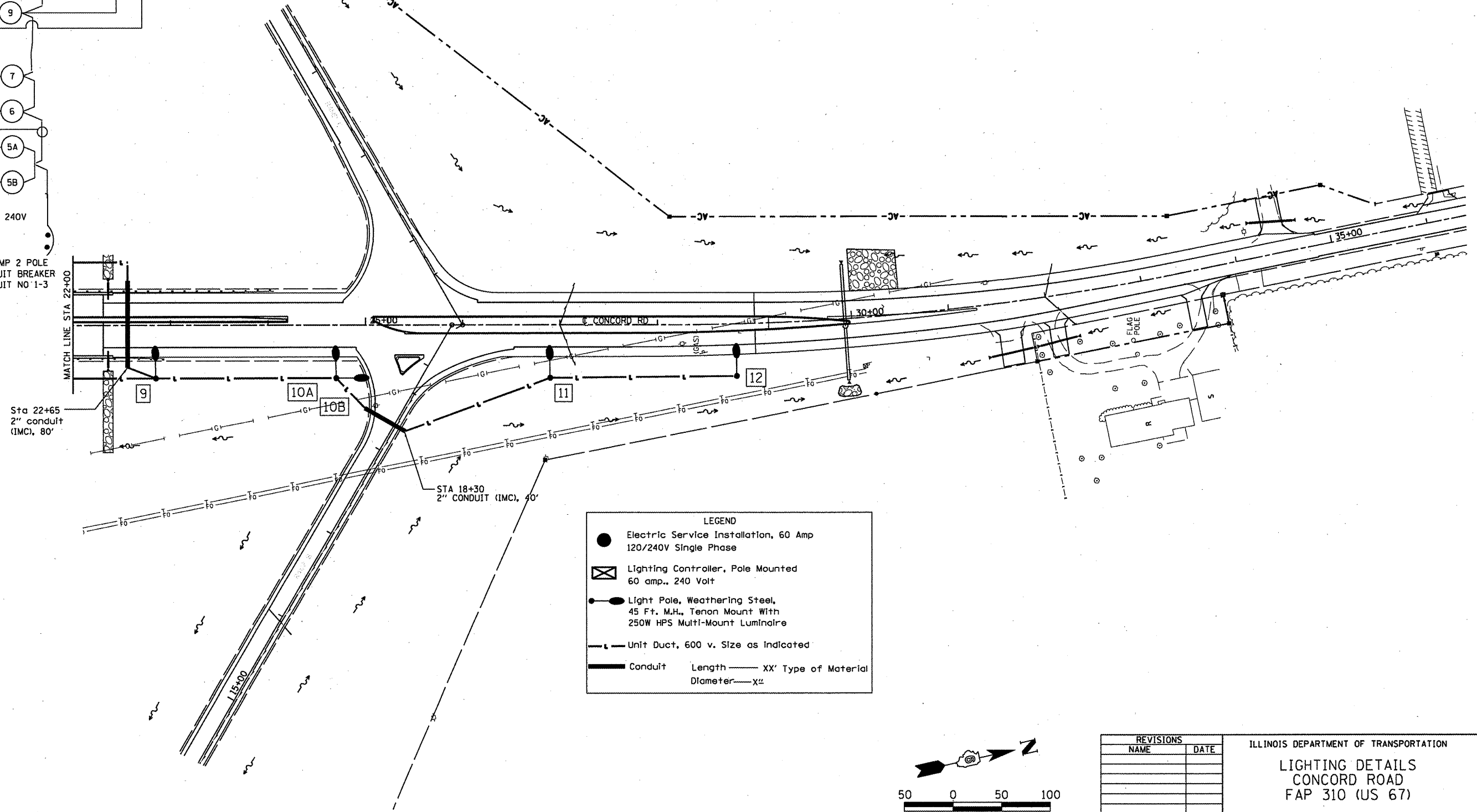
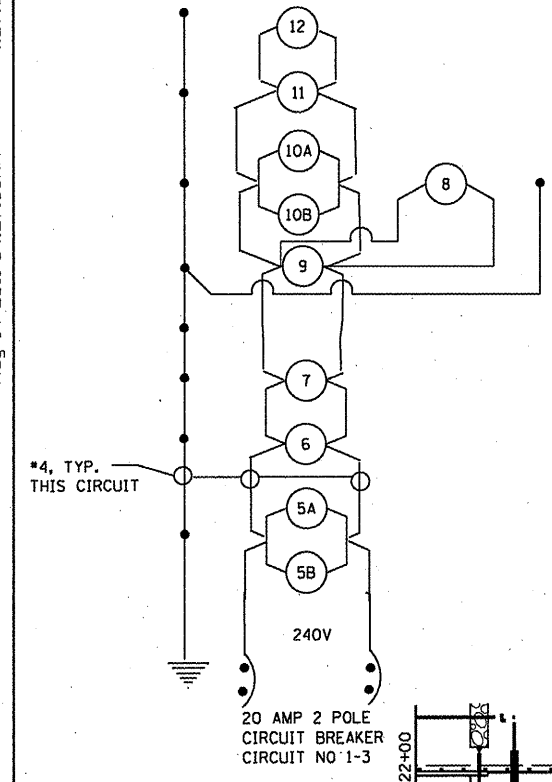
DATE 9/09
 DRAWN BY BGJ
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	309
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LIGHT POLE LOCATIONS

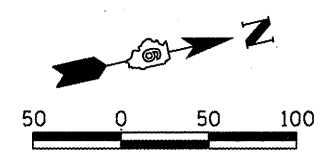
POLE	STATION	OFFSET
9	22+85	45' RT
10A 10B	24+70	55' RT
11	26+90	45' RT
12	28+80	45' RT

9:27:38 AM
May-19-2011 09:27:38AM



LEGEND

- Electric Service Installation, 60 Amp 120/240V Single Phase
- ⊠ Lighting Controller, Pole Mounted 60 amp., 240 Volt
- Light Pole, Weathering Steel, 45 Ft. M.H., Tenon Mount With 250W HPS Multi-Mount Luminaire
- Unit Duct, 600 v. Size as indicated
- Conduit Length — XX' Type of Material Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
CONCORD ROAD
FAP 310 (US 67)

DATE 9/09

DRAWN BY BGI
CHECKED BY

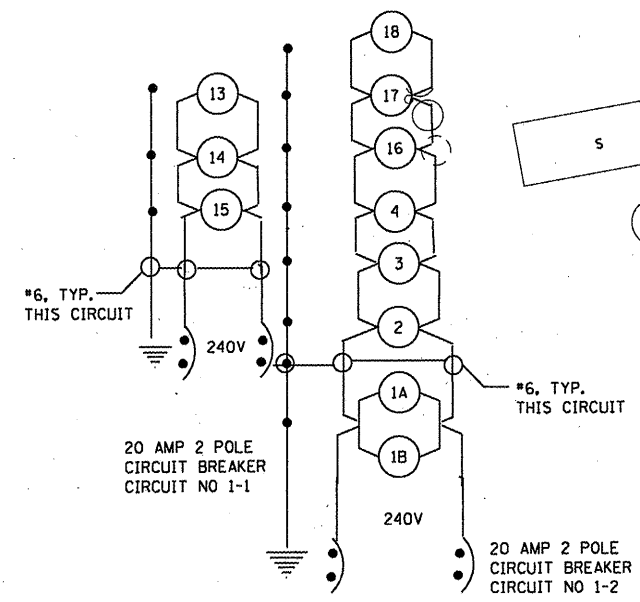
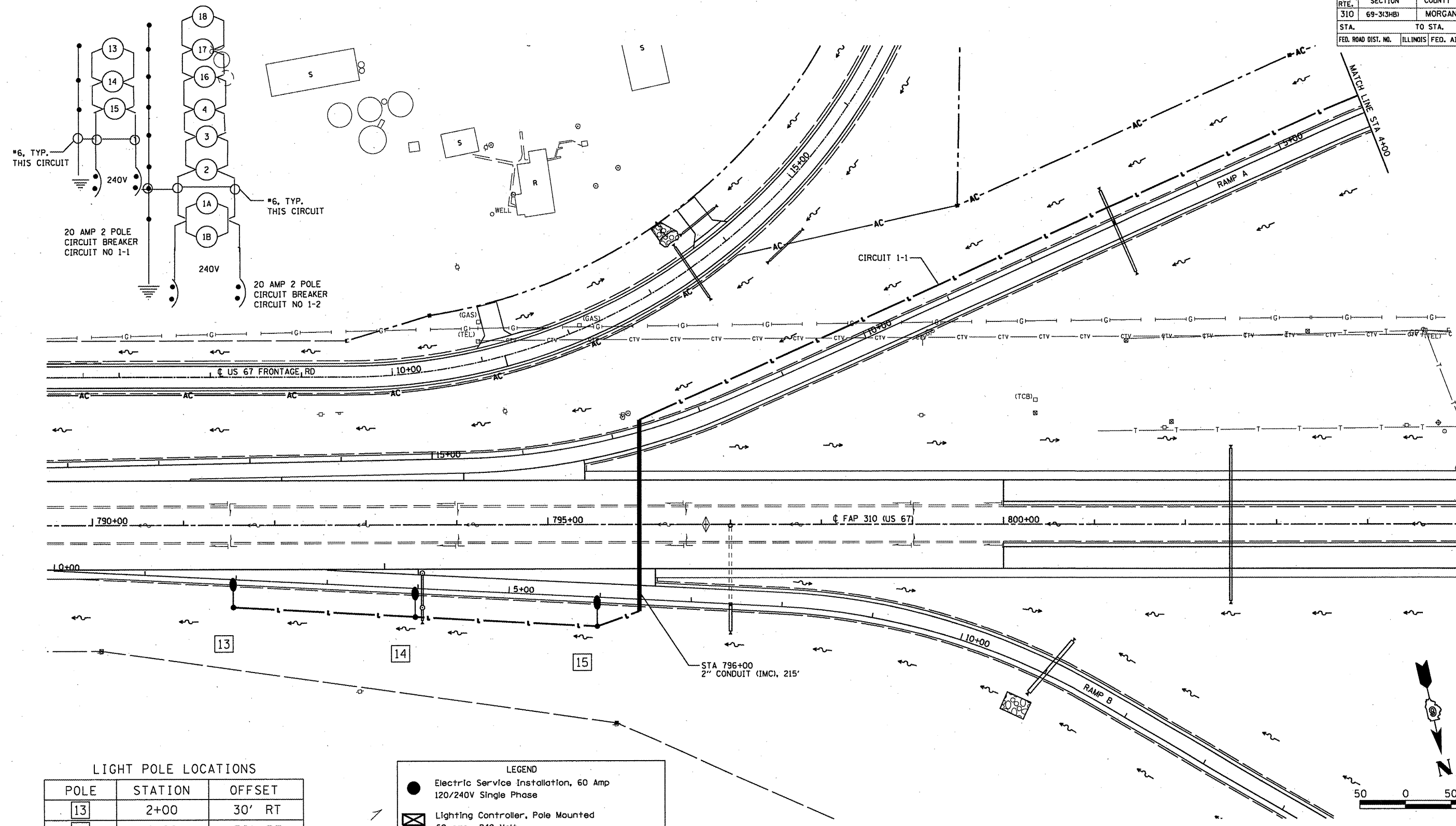
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May-19-2011 09:28:21AM

\$FILE\$

CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	310
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

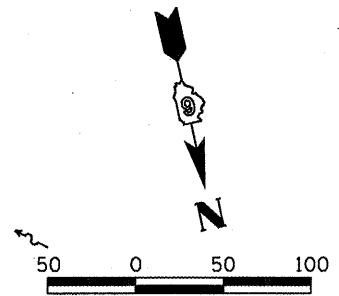


LIGHT POLE LOCATIONS

POLE	STATION	OFFSET
13	2+00	30' RT
14	4+00	30' RT
15	6+00	30' RT

LEGEND

- Electric Service Installation, 60 Amp 120/240V Single Phase
- ⊠ Lighting Controller, Pole Mounted 60 amp., 240 Volt
- Light Pole, Weathering Steel, 45 Ft. M.H., Tenon Mount With 250W HPS Multi-Mount Luminaire
- Unit Duct, 600 v. Size as Indicated
- Conduit Length — XX' Type of Material Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
RAMP B
FAP 310 (US 67)

DATE 9/09
 DRAWN BY BCG
 CHECKED BY

May-19-2011 09:29:03AM

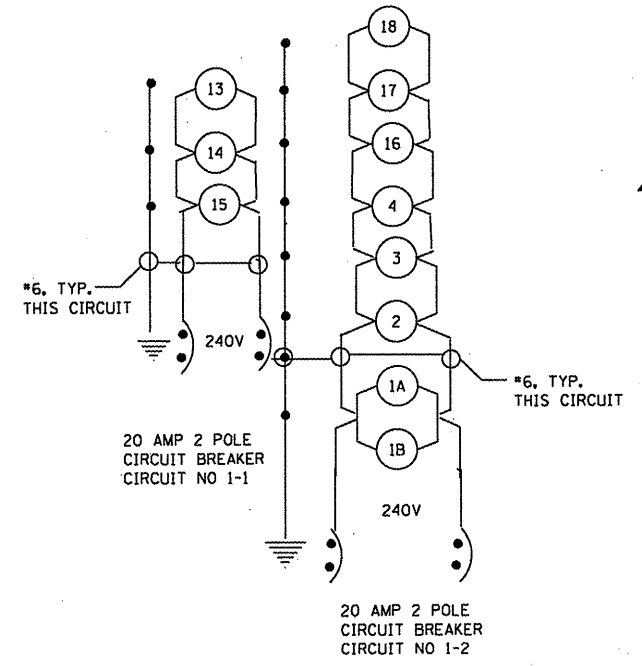
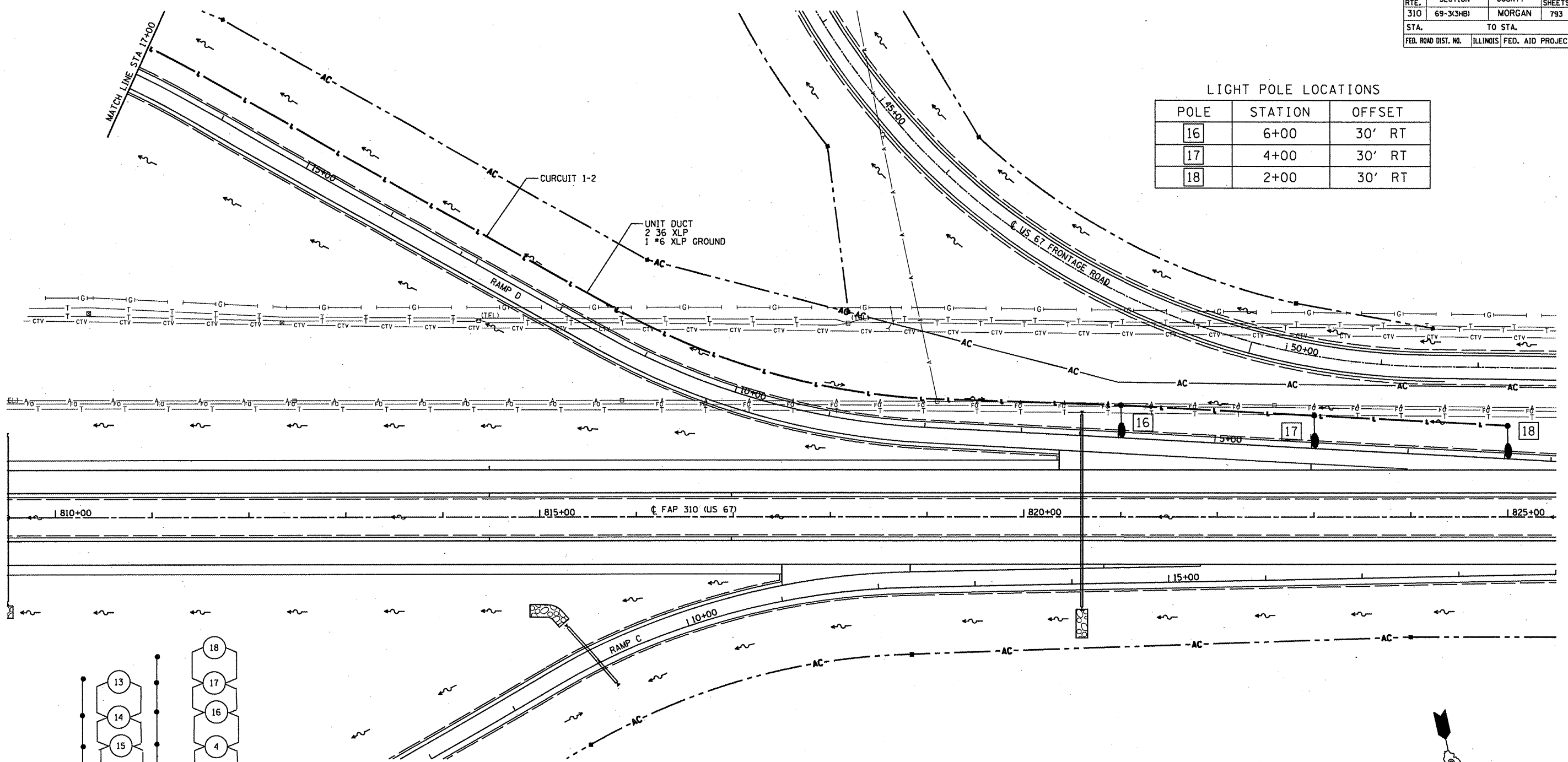
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	311
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

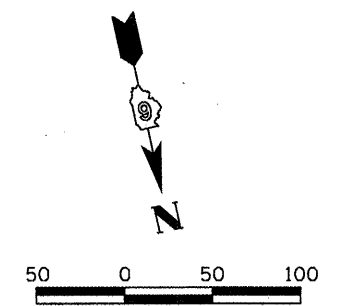
LIGHT POLE LOCATIONS

POLE	STATION	OFFSET
16	6+00	30' RT
17	4+00	30' RT
18	2+00	30' RT



LEGEND

- Electric Service Installation, 60 Amp 120/240V Single Phase
- ⊠ Lighting Controller, Pole Mounted 60 amp., 240 Volt
- Light Pole, Weathering Steel, 45 Ft. M.H., Tenon Mount With 250W HPS Multi-Mount Luminaire
- - - Unit Duct, 600 v. Size as Indicated
- Conduit Length — XX' Type of Material Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
RAMP D
FAP 310 (US 67)

DATE 9/09
 DRAWN BY BGL
 CHECKED BY

TEMPORARY LIGHTING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
2. THE MINIMUM HEIGHT OF AERIAL CABLE SPANS SHALL BE 20 FEET ABOVE THE TOP OF PAVEMENT OR GRADE. ANY AERIAL CABLE SPANS SAGGING BELOW 20 FEET SHALL BE ADJUSTED AT NO ADDITIONAL COST.
3. ALL RELOCATIONS AND ADJUSTMENTS TO TEMPORARY FACILITIES OR RECONNECTIONS OF THE TEMPORARY AERIAL CABLE DUE TO STAGING OR CONSTRUCTION SHALL BE MADE AT NO ADDITIONAL COST.

WOOD POLES SHALL BE GUYED AND ANCHORED AS INDICATED ON THE PLANS AND TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT, HARDWARE, AND ALL NECESSARY ADJUSTMENTS, SHALL BE INCLUDED IN THE "REMOVE AND RELOCATE LIGHTING SYSTEM" PAY ITEM.

GENERAL LIGHTING NOTES

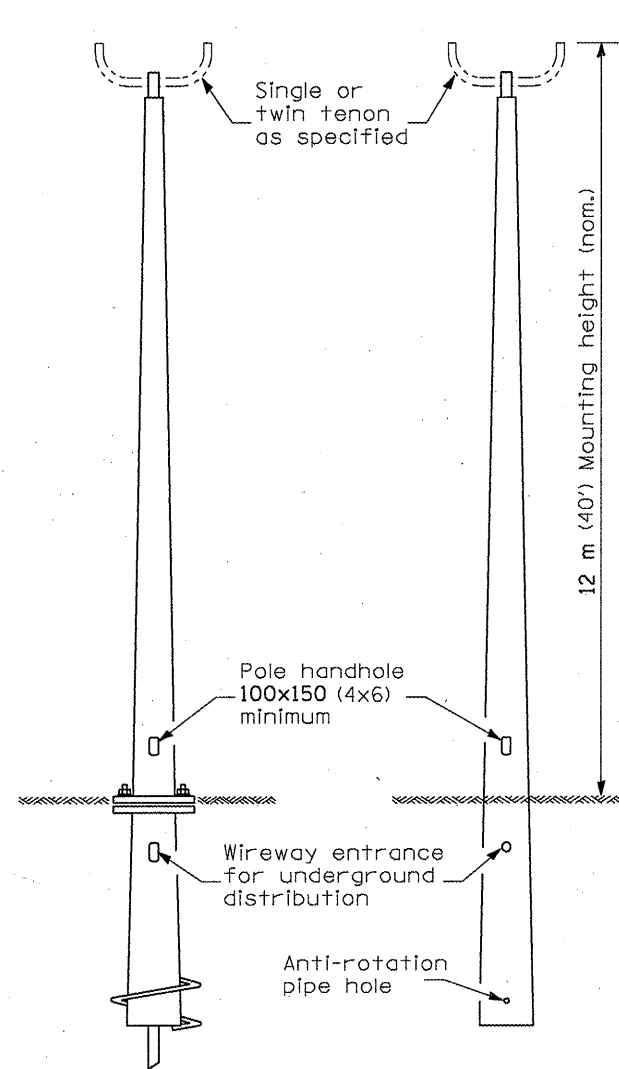
1. ALL PROPOSED LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, WITH POLE NUMBERS ATTACHED WITH STAINLESS STEEL BANDING. LIGHTING UNIT NUMBERING SHALL BE AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
3. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNIT DUCT OR UNDERGROUND CONDUIT PAY ITEM.
5. TWIN TENON POLES SHALL BE INSTALLED ON 8" X 8' FOUNDATIONS.

PERFORMANCE REQUIREMENTS

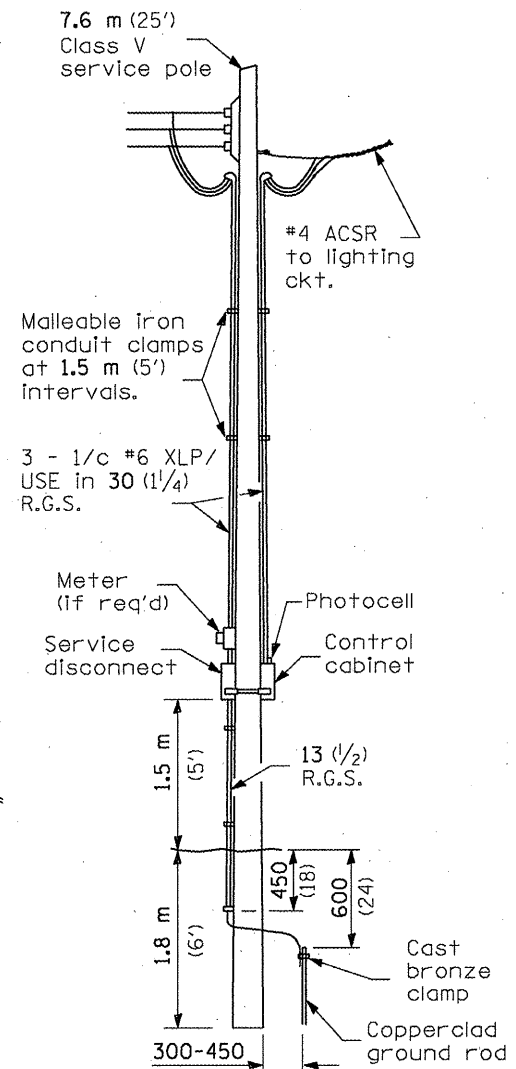
NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E _{AVE})	0.6 fc
	Uniformity Ratio, (E _{AVE} /E _{MIN})	3.0
LUMINANCE:	Average Luminance: (L _{AVE})	0.4 Cd/m ²
	Uniformity Ratios: (L _{AVE} /L _{MIN})	3.5
	(L _{MAX} /L _{MIN})	6.0
	Maximum Veiling Luminance Ratio: (L _v /L _{AVE})	0.3

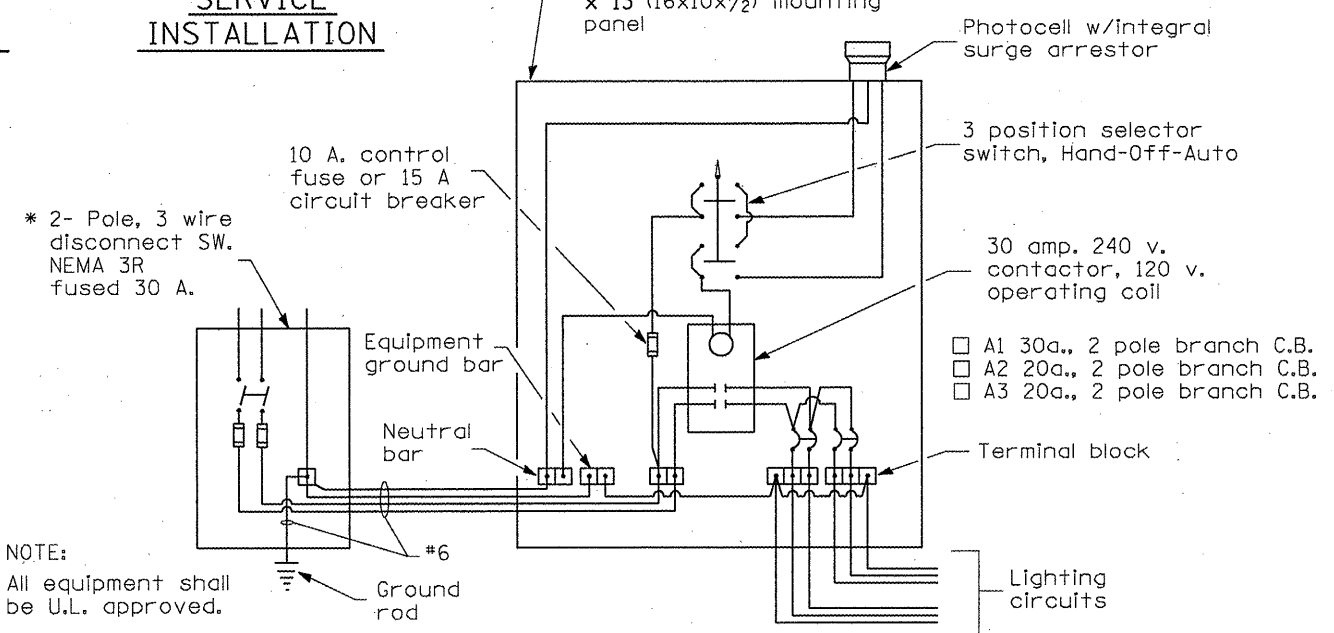
FILE NAME =	USER NAME = ba.j	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY ROADWAY LIGHTING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\ba.j\dms20086\d653882	shv-311B-1g1014.dgn	DRAWN -	REVISED -		310	69-3(3HB)	MORGAN	311A	311A			
	PLOT SCALE = 0:26.000 m / in.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 72667			
	PLOT DATE = May-19-2011 09:29:07AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



**ANCHOR BASE W/
METAL FOUNDATION** **BUTT BASE**
**POLE, FIBERGLASS
BREAKAWAY TYPE**



**SERVICE
INSTALLATION**

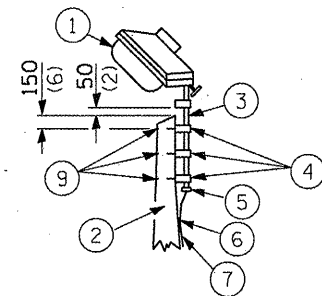


WIRING DIAGRAM

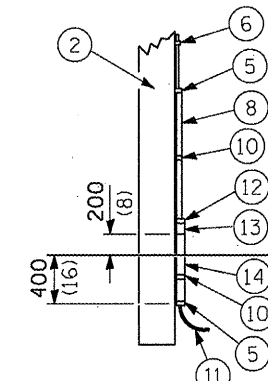
NOTE:
All equipment shall be U.L. approved.
* 30 A. or 60 A., dependent upon utility co. rules.

NOTE:

Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.
Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.
Connect luminaire equipment ground to ACSR messenger.



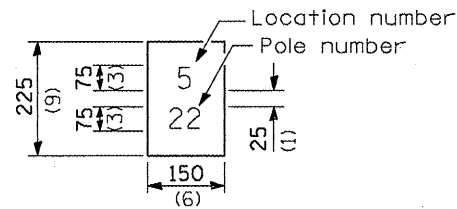
- ① Luminaire 250w HPS
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type USE cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length
- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



POLE, WOOD

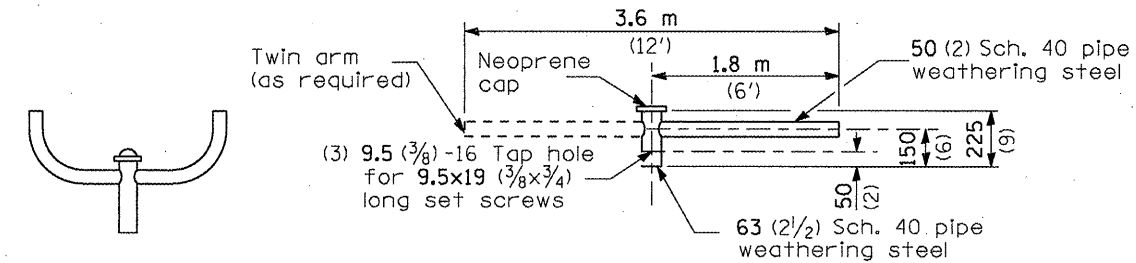
POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

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



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

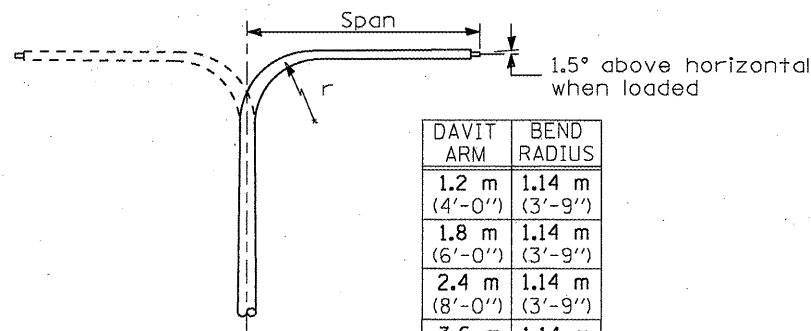
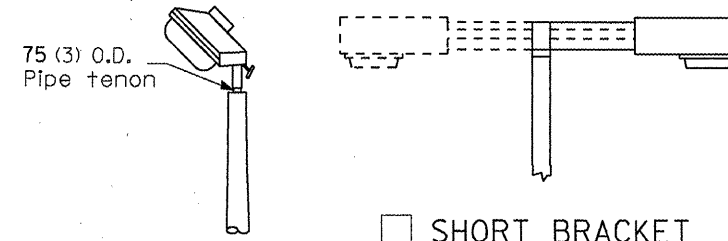
The light pole identification shall be applied to sign base material as specified in section 1069.06 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 720001.



TWIN TENON

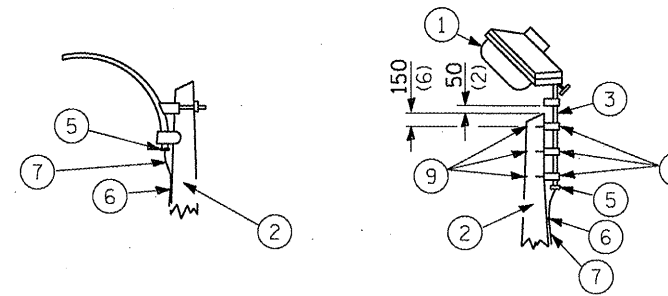
TENON MOUNT BRACKET ARM

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

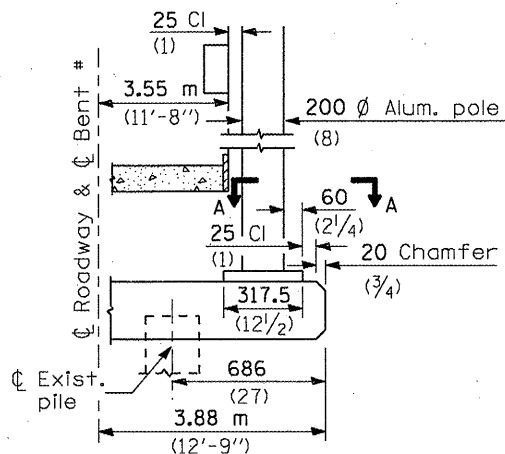


DAVIT ARM

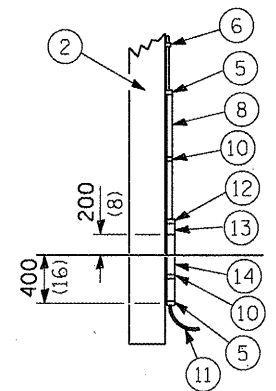
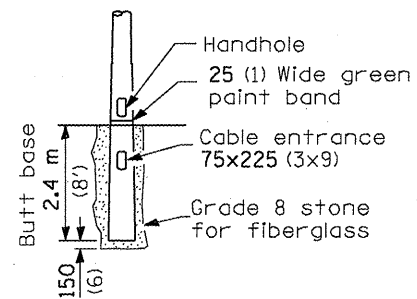
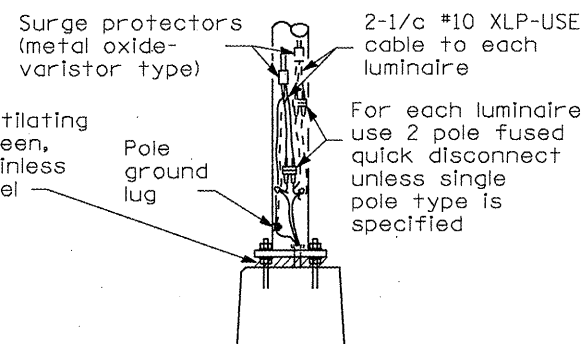
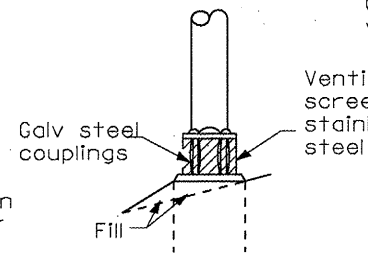
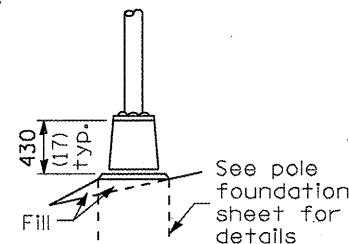
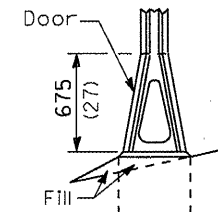
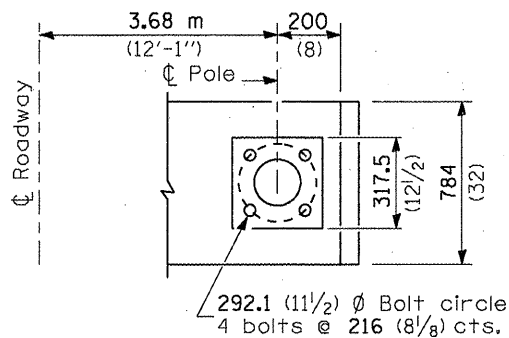
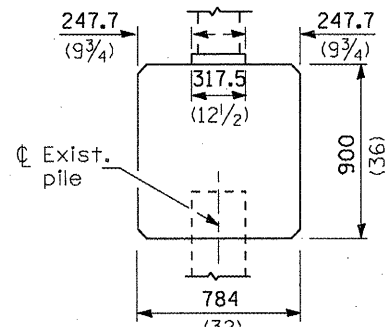
DAVIT ARM-TWIN



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



BENT #
(Looking)



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

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

Corrected 6/24/09

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FRANGIBLE

METAL

OR

CONCRETE

Details for underground distribution if required

Stainless steel standard grade wire cloth,
6x6 (1/4") mesh or less with #16 gauge
(0.062") diameter or heavier wire.

Attach with 1/2" stainless steel banding
or tie back on itself with stainless steel wire ties.
Finished installation must prevent rodent entry.

Cable splices according
to Art 1066.06 with
compression connectors
appropriately taped.

Surge protectors
(metal oxide-
varistor type)

2-1/c #10 XLP-USE
cable to each
luminaire

For each luminaire
use 2 pole fused
quick disconnect.
For receptacle
circuit (not shown)
use 2 pole
fuseholder with
solid neutral.

Pole base plate

1" leveling nuts

Pole
ground
lug

Wireway window
in pole foundation

WIRING DETAIL

NO SCALE

GENERAL NOTES

All taped splices shall use 2 layers of electrical tape
over 3 layers of rubber tape as required by the
Standard Specifications. Coat the finished taped
splice with bonding compound.

All cable splices shall be taped unless another method
has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base.
If the pole is required to be set on a breakaway base,
consult the Standard Specifications.

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

7/31/08 Updated

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FILE NAME =	USER NAME = baij	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POLE HANDHOLE WIRING DRAFT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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	PLOT DATE = May-19-2011 09:22:16AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									

9:38:29 AM

Mar-30-2011 09:38:29AM

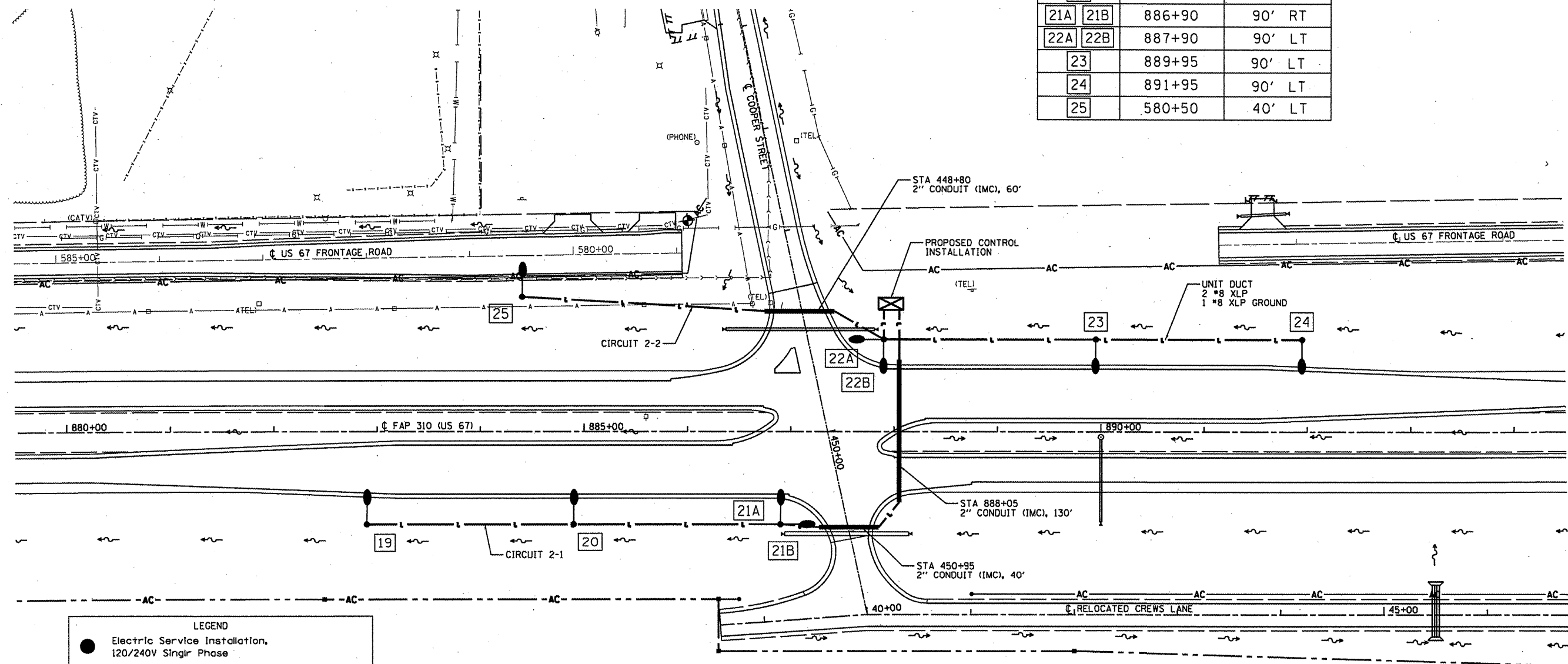
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	312
STA. TO STA.		ILLINOIS FED. AID PROJECT		

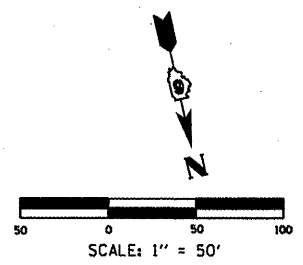
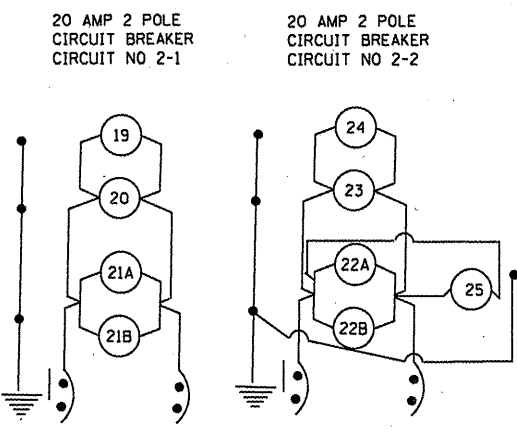
LIGHT POLE LOCATIONS

POLE	STATION	OFFSET
19	882+90	90' RT
20	884+90	90' RT
21A	886+90	90' RT
22A	887+90	90' LT
23	889+95	90' LT
24	891+95	90' LT
25	580+50	40' LT



LEGEND

- Electric Service Installation, 120/240V Single Phase
- ⊠ Lighting Controller, Relay 30 amp., 240 Volt
- LIGHT POLE, WEATHERING STEEL, 45 FT M.H., TENON MOUNT W/ 250W HPS MULTI-MOUNT LUMINAIRE
- Unit Duct, 600 v. 2-1C no. 8 1/C No. 8 Ground, (XLP-Type use), 3-4" Polyethylene
- Conduit Length — XX' Type of Material Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
 COOPER ST & REL CREWS LN
 FAP 310 (US 67)

DATE 9/09
 DRAWN BY BGY
 CHECKED BY

9:38:35 AM

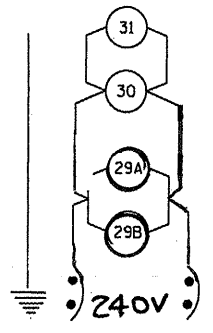
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	313
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

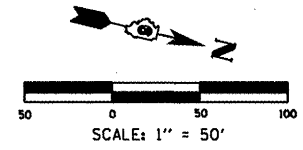
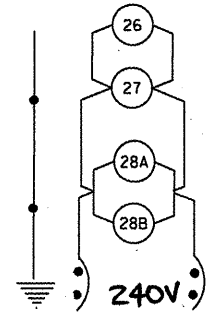
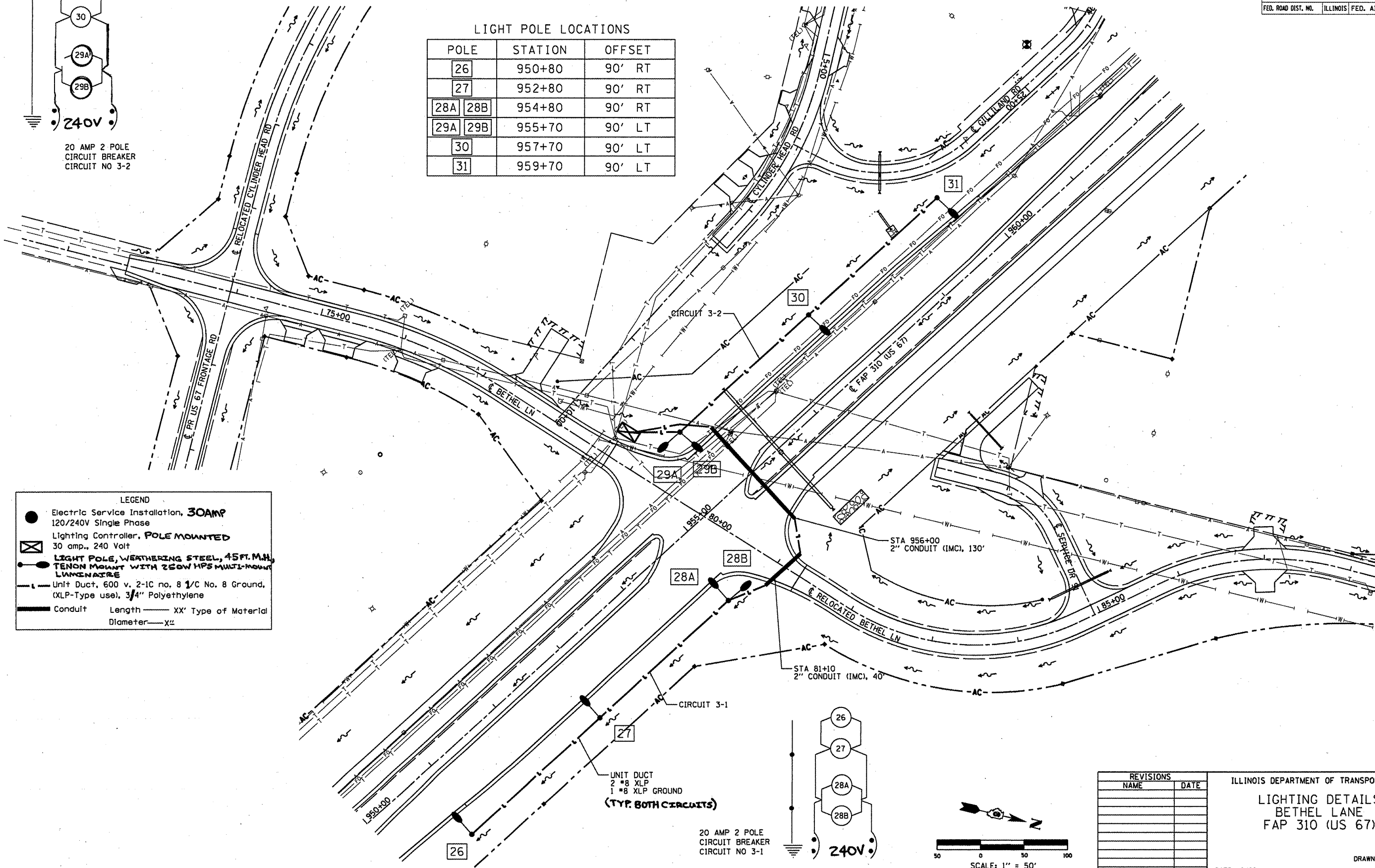
LIGHT POLE LOCATIONS

POLE	STATION	OFFSET	
26	950+80	90' RT	
27	952+80	90' RT	
28A	28B	954+80	90' RT
29A	29B	955+70	90' LT
30	957+70	90' LT	
31	959+70	90' LT	



LEGEND

- Electric Service Installation, **30AMP**
120/240V Single Phase
- ☒ Lighting Controller, **POLE MOUNTED**
30 amp., 240 Volt
- LIGHT POLE, WEATHERING STEEL, 45FT. M.H.,
TENON MOUNT WITH 250W HPS MULTI-MOUNT
LUMINAIRE
- Unit Duct, 600 v, 2-1C no. 8 1/C No. 8 Ground,
(XLP-Type use), 3/4" Polyethylene
- Conduit Length — XX' Type of Material
Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
BETHEL LANE
FAP 310 (US 67)

DATE 9/09
 DRAWN BY BGI
 CHECKED BY

SECTION 69-3(3HB)

MORGAN COUNTY

SHEET 6 OF 8

FILE\$

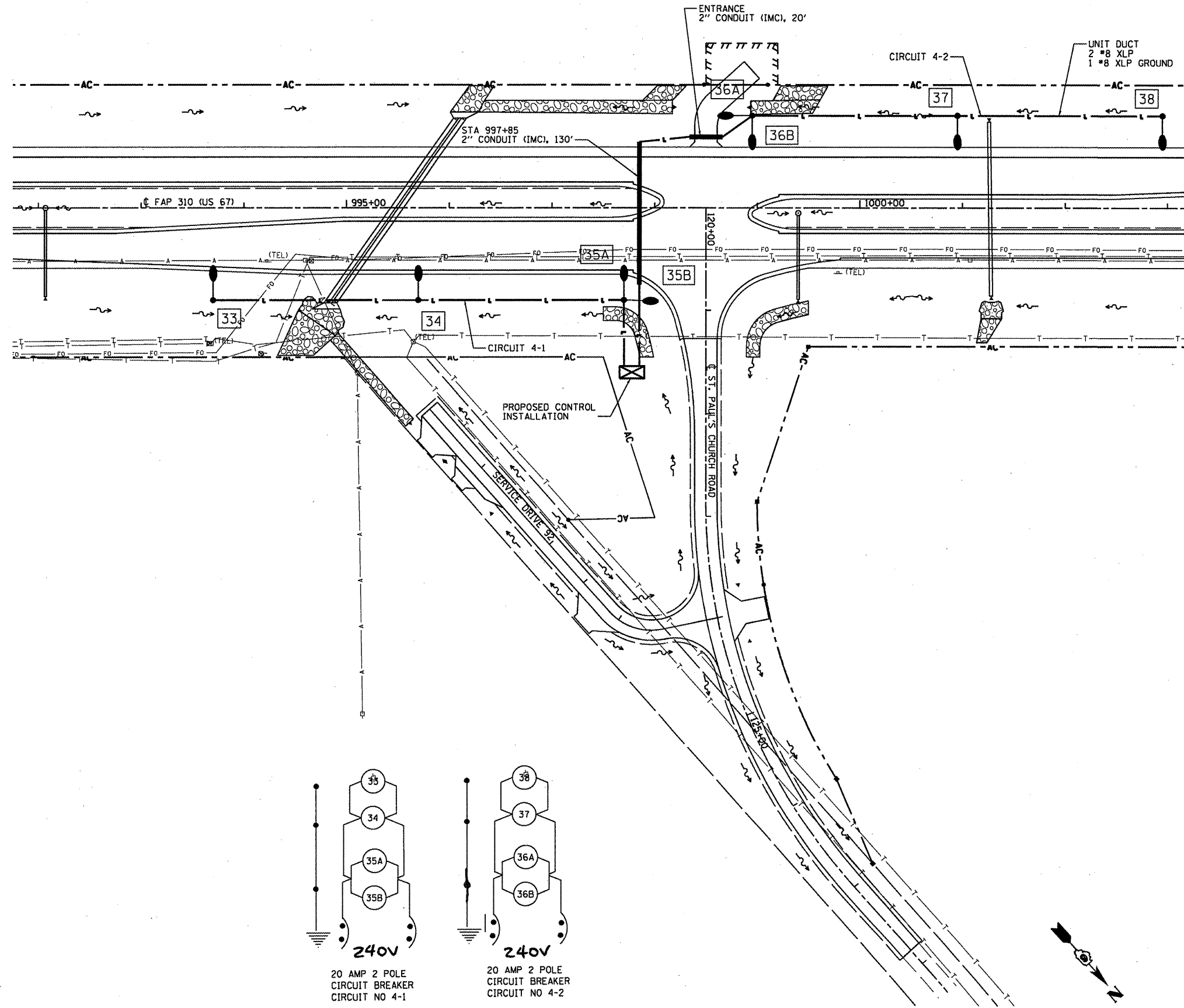
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	314
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

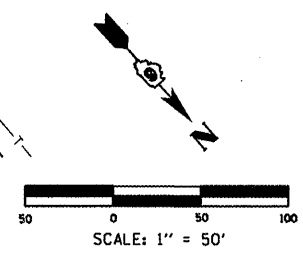
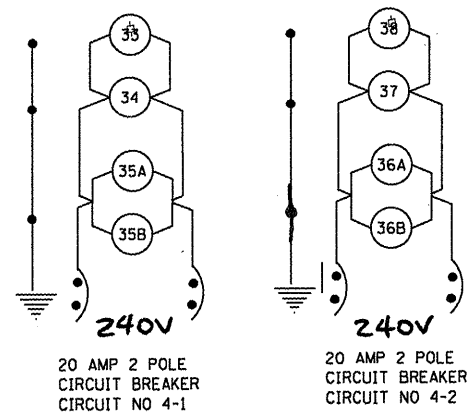


LIGHT POLE LOCATIONS

POLE	STATION	OFFSET
33	993+70	90' RT
34	995+70	90' RT
35A 35B	997+70	90' RT
36A 36B	998+95	80' LT
37	1000+95	80' LT
38	1002+95	80' LT

LEGEND

- Electric Service Installation, 120/240V Single Phase
- ⊗ Lighting Controller, Relay 30 amp., 240 Volt
- LIGHT POLE WEATHERING STEEL, 45 FT. MAH TENSION MOUNT W/ 250W HPS MULTI-MOUNT LUMINAIRE
- Unit Duct, 600 v. 2-1C no. 8 1/C No. 8 Ground, (XLP-Type use), 3/4" Polyethylene
- Conduit Length — XX' Type of Material Diameter — X"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
 ST. PAUL'S CHURCH RD (CH 17)
 FAP 310 (US 67)

DATE 9/09
 DRAWN BY BGC
 CHECKED BY

SECTION 69-3(3HB)

MORGAN COUNTY

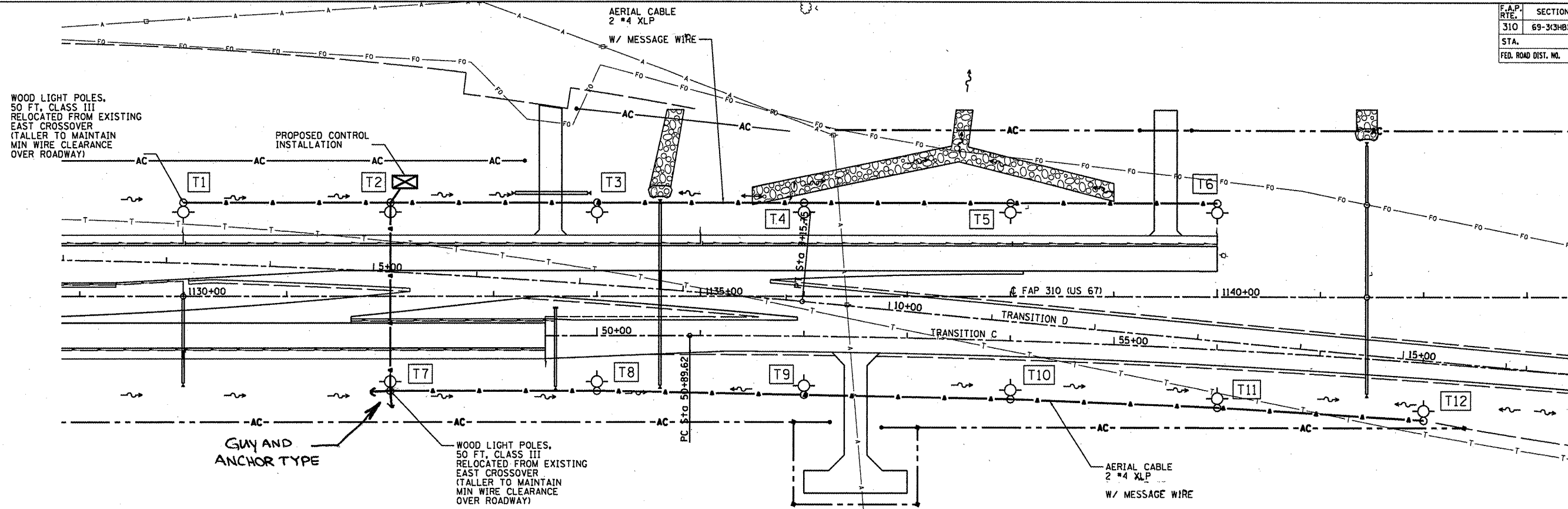
SHEET 7 OF 8

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CONTRACT NO. 72667

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

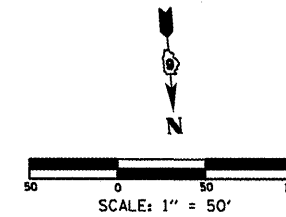
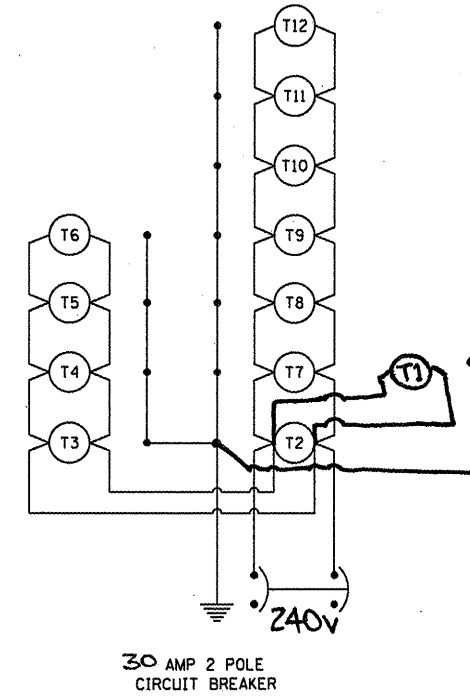


NOTE:

GUYS AND ANCHORS SHOWN AS AN EXAMPLE AND SHALL BE INSTALLED AS NECESSARY TO THE SATISFACTION OF THE ENGINEER.

LEGEND	
●	Electric Service Installation, 30AMP 120/240V Single Phase
⊠	Lighting Controller, Relay 30 amp., 240 Volt
○	Temporary Light pole, Wood, 50ft M.H., Class III
—	Aerial Cable, 2 #4 XLP, 1 #4 XLP Ground W/ Message Wire
—	Conduit Length — XX' Type of Material Diameter — X"

LIGHT POLE LOCATIONS		
POLE	STATION	OFFSET
T1	1130+00	80' LT
T2	1132+00	80' LT
T3	1134+00	80' LT
T4	1136+00	80' LT
T5	1138+00	80' LT
T6	1140+00	80' LT
T7	1132+00	80' RT
T8	1134+00	80' RT
T9	1136+00	84' RT
T10	1138+00	98' RT
T11	1140+00	106' RT
T12	1142+00	118' RT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING DETAILS
WEST CROSSOVER
FAP 310 (US 67)
 DATE 9/09
 DRAWN BY BGL
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	316
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

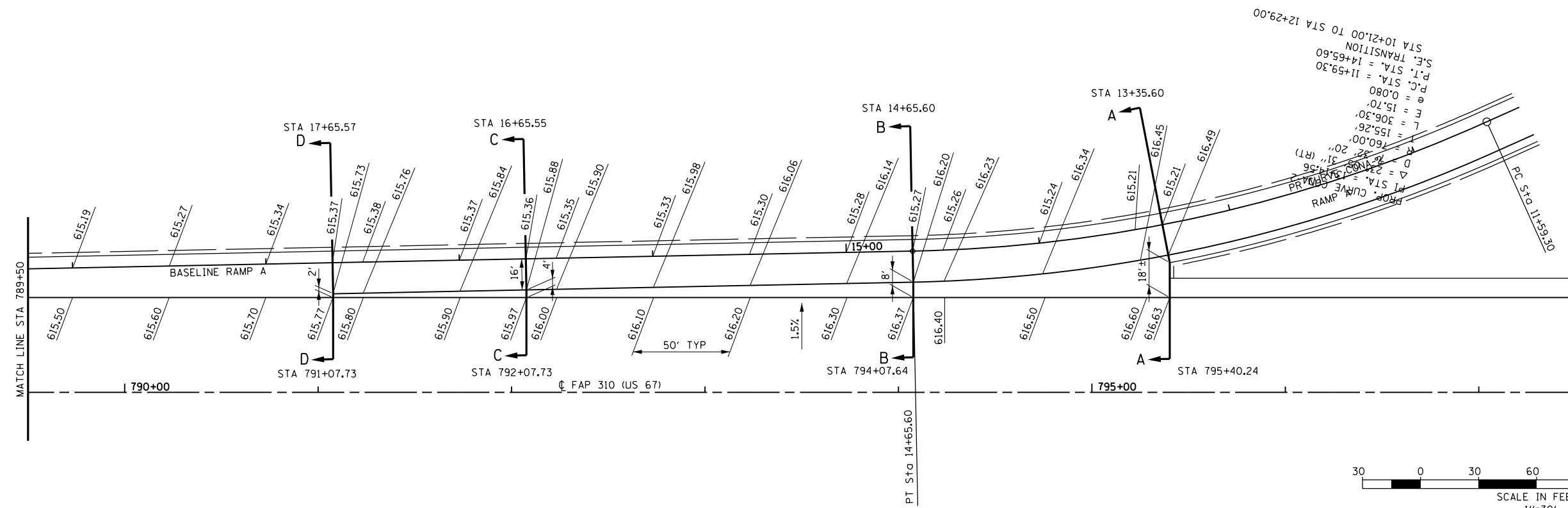
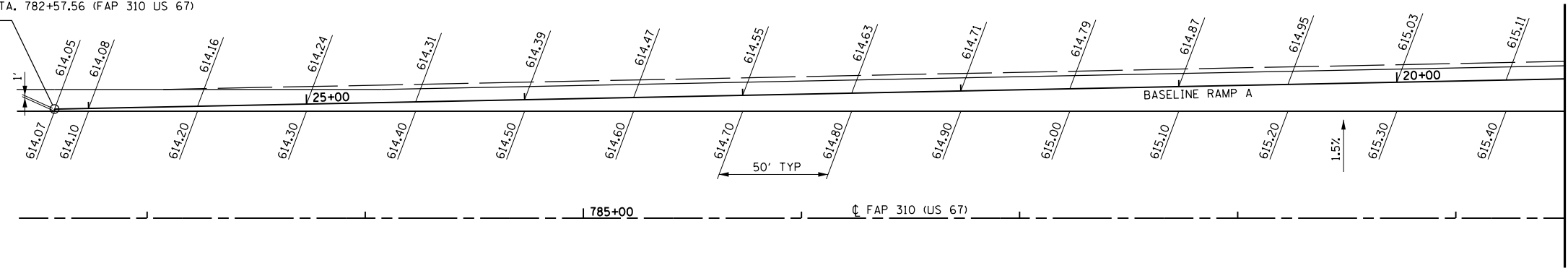
SEE SHEETS 181-182 FOR RAMP A PROFILE

SEE STANDARD 420201 FOR ENTRANCE TERMINAL SECTIONS & NOTES

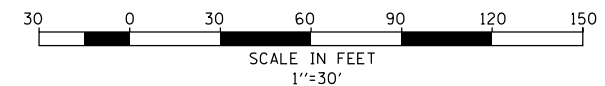
NOTE:

INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES TO RAMP BASELINE. OUTSIDE MAINLINE EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES FROM THE MAINLINE CENTERLINE TO THE INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS.

STA. 26+15.60 (RAMP A) = 50' LT. STA. 782+57.56 (FAP 310 US 67) 1' STUB



FROM CURVE DATA
 P.C. STA. = 11+59.30
 P.T. STA. = 14+65.60
 S.E. TRANSITION
 STA 10+21.00 TO STA 12+29.00
 L = 306.30
 E = 15.70
 e = 0.080
 W = 76.00
 Δ = 22° 31' (RT)
 PC STA = 11+59.30
 PT STA = 14+65.60
 PR. CURVE DATA



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP TERMINAL DETAILS
ENTRANCE RAMP A
FAP 310 (US 67/IL 104)
 DRAWN BY BCJ
 CHECKED BY
 DATE 7/06

9:38:53 AM
 Mar-30-2011 09:38:53AM
 \$FILE\$

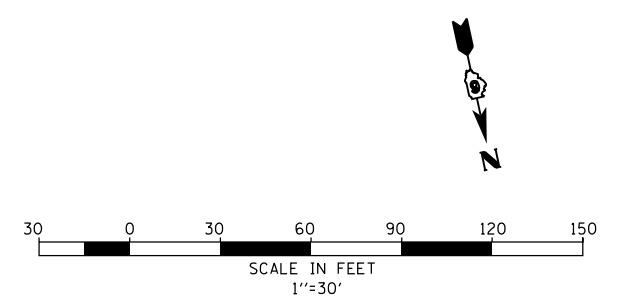
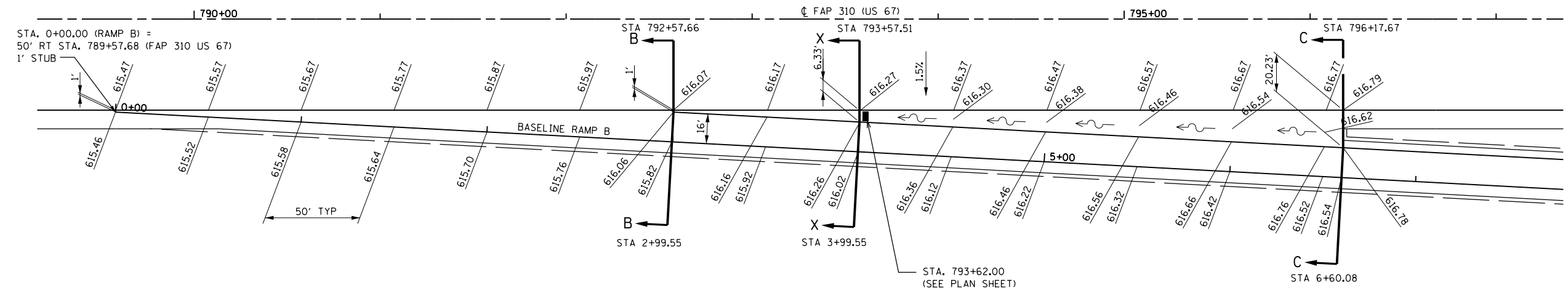
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	317
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE SHEETS 183-184 FOR RAMP B PROFILE

SEE STANDARD 420301 FOR EXIT TERMINAL SECTIONS & NOTES

← PROVIDE DRAINAGE SWALE SEE STANDARD

NOTE:
 INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES TO RAMP BASELINE. OUTSIDE MAINLINE EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES FROM THE MAINLINE CENTERLINE TO THE INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP TERMINAL DETAILS
EXIT RAMP B
FAP 310 (US 67/IL 104)

DATE 7/06
 DRAWN BY BCJ
 CHECKED BY

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Mar-30-2011 09:38:59AM

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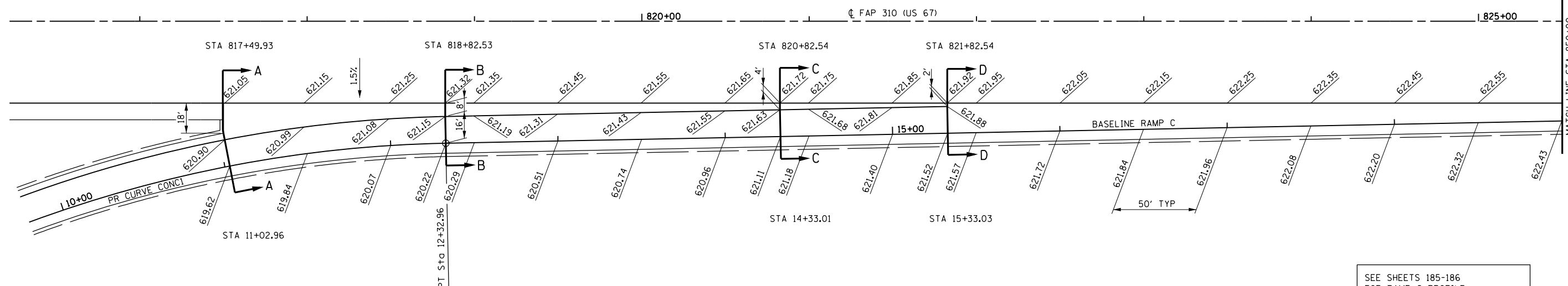
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Mar-30-2011 09:39:04AM

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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	318
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

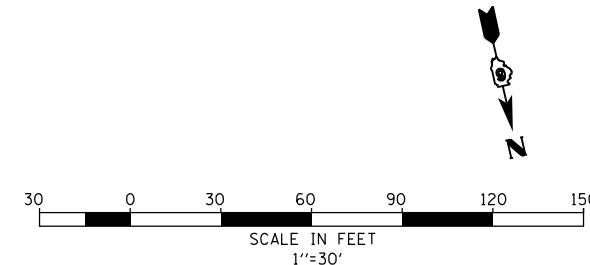
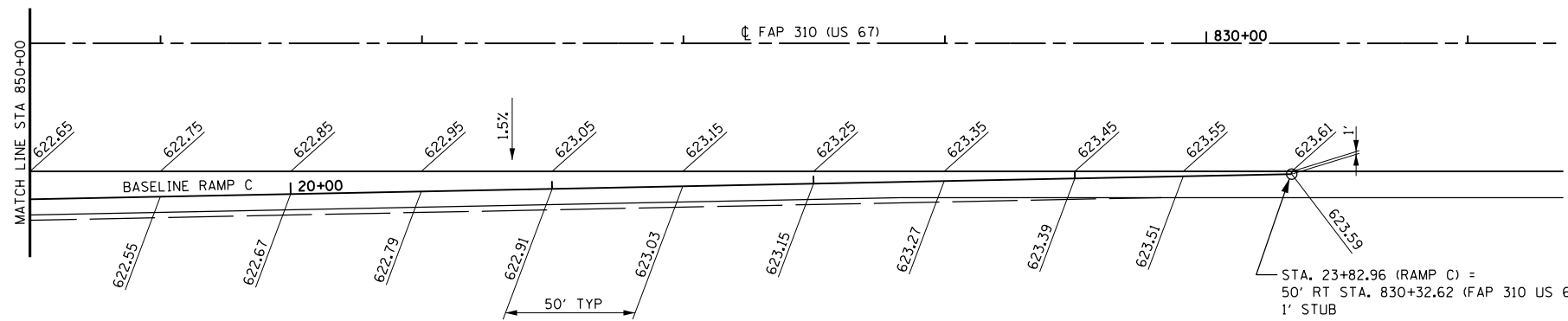


PROP. CURVE CONC1
 P.I. STA. = 10+45.63
 $\Delta = 28^\circ 52' 16''$ (RT)
 $D = 07^\circ 32' 20''$
 $R = 760.00'$
 $T = 195.64'$
 $L = 382.96'$
 $E = 24.78'$
 $e = 0.080$
 P.C. STA. = 8+50.00
 P.T. STA. = 12+32.96
 S.E. TRANSITION
 STA 7+11.00 TO STA 9+19.00

SEE SHEETS 185-186
 FOR RAMP C PROFILE

SEE STANDARD 420201 FOR ENTRANCE
 TERMINAL SECTIONS & NOTES

NOTE:
 INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES TO RAMP BASELINE. OUTSIDE MAINLINE EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES FROM THE MAINLINE CENTERLINE TO THE INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 RAMP TERMINAL DETAILS
 ENTRANCE RAMP C
 FAP 310 (US 67/IL 104)

DATE 7/06
 DRAWN BY BQJ
 CHECKED BY

SECTION 69-3(3HB)

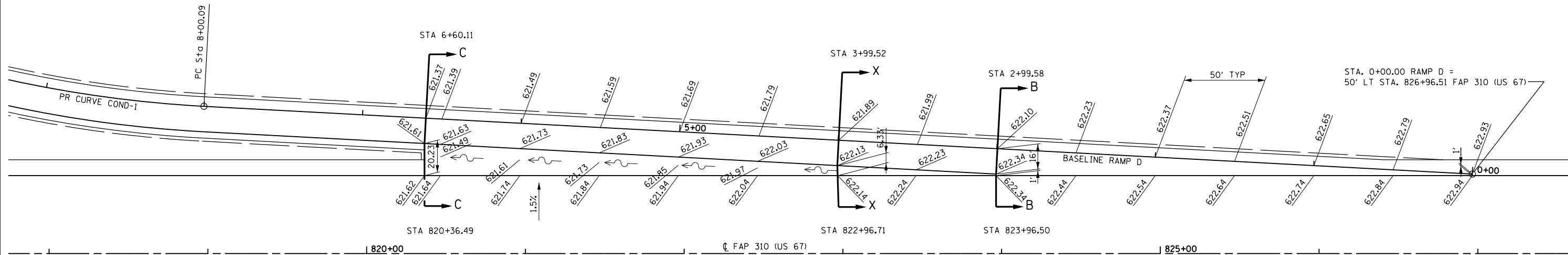
MORGAN COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	319
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

9:39:11 AM

Mar-30-2011 09:39:11 AM

PROP. CURVE COND-1
 PI STA. = 9+76.57
 $\Delta = 26^\circ 08' 47''$ (RT)
 $D = 07^\circ 32' 20''$
 $R = 760.00'$
 $T = 176.48'$
 $L = 346.82'$
 $E = 20.22'$
 $e = 0.080$
 P.C. STA. = 8+00.09
 P.T. STA. = 11+46.91
 S.E. TRANSITION
 STA 6+60.11 TO STA 8+70.11
 STA 10+62.00 TO STA 13+66.00



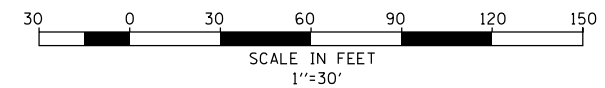
← PROVIDE DRAINAGE SWALE
 SEE STANDARD

SEE SHEETS 187-188
 FOR RAMP D PROFILE

SEE STANDARD 420301 FOR EXIT
 TERMINAL SECTIONS & NOTES

NOTE:

INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES TO RAMP BASELINE. OUTSIDE MAINLINE EDGE OF PAVEMENT ELEVATIONS ARE AT 90° ANGLES FROM THE MAINLINE CENTERLINE TO THE INSIDE RAMP EDGE OF PAVEMENT ELEVATIONS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP TERMINAL DETAILS
EXIT RAMP D
FAP 310 (US 67/IL 104)

DATE 7/06
 DRAWN BY BCG
 CHECKED BY

\$FILE\$

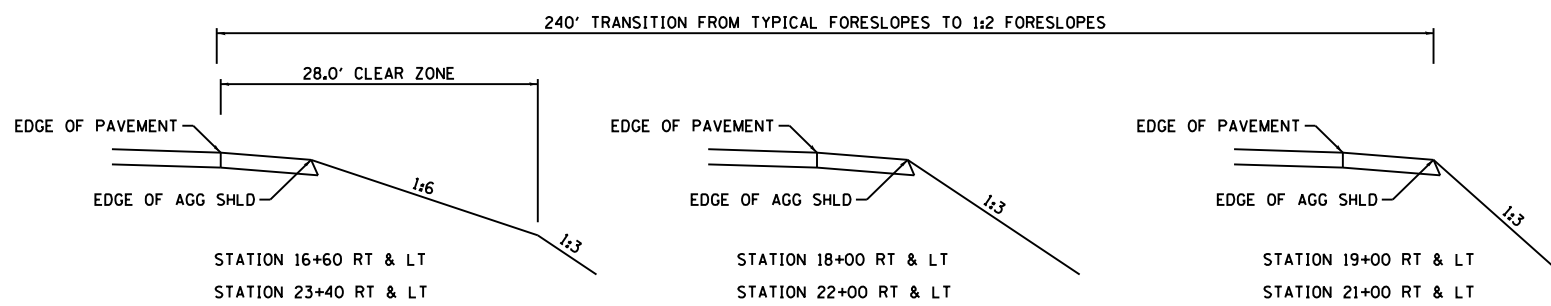
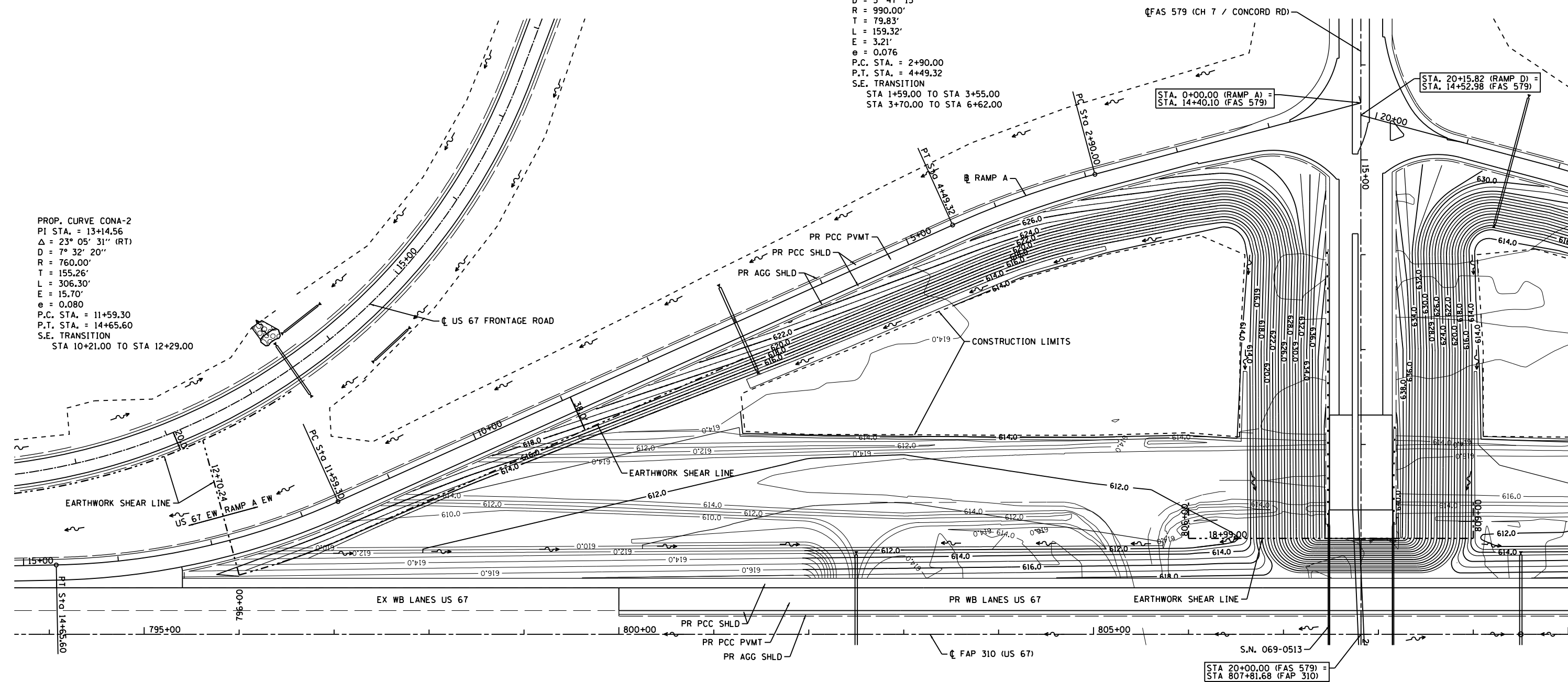
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	320
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. CURVE CON-A-1
 PI STA. = 3+69.83
 $\Delta = 9^\circ 13' 14''$ (LT)
 $D = 5^\circ 47' 15''$
 $R = 990.00'$
 $T = 79.83'$
 $L = 159.32'$
 $E = 3.21'$
 $e = 0.076$
 P.C. STA. = 2+90.00
 P.T. STA. = 4+49.32
 S.E. TRANSITION
 STA 1+59.00 TO STA 3+55.00
 STA 3+70.00 TO STA 6+62.00

PROP. CURVE CONA-2
 PI STA. = 13+14.56
 $\Delta = 23^\circ 05' 31''$ (RT)
 $D = 7^\circ 32' 20''$
 $R = 760.00'$
 $T = 155.26'$
 $L = 306.30'$
 $E = 15.70'$
 $e = 0.080$
 P.C. STA. = 11+59.30
 P.T. STA. = 14+65.60
 S.E. TRANSITION
 STA 10+21.00 TO STA 12+29.00



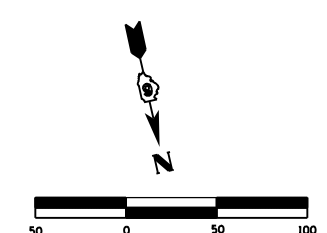
FORESLOPE TRANSITION DETAIL (CONCORD RD)

NOT TO SCALE
 SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR DETAILS NOT SHOWN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCHANGE INFIELD
 GRADING PLAN
 RAMP A
 FAP 310 (US 67) & CONCORD RD

DATE 3/09
 DRAWN BY SEB
 CHECKED BY



\$FILE\$

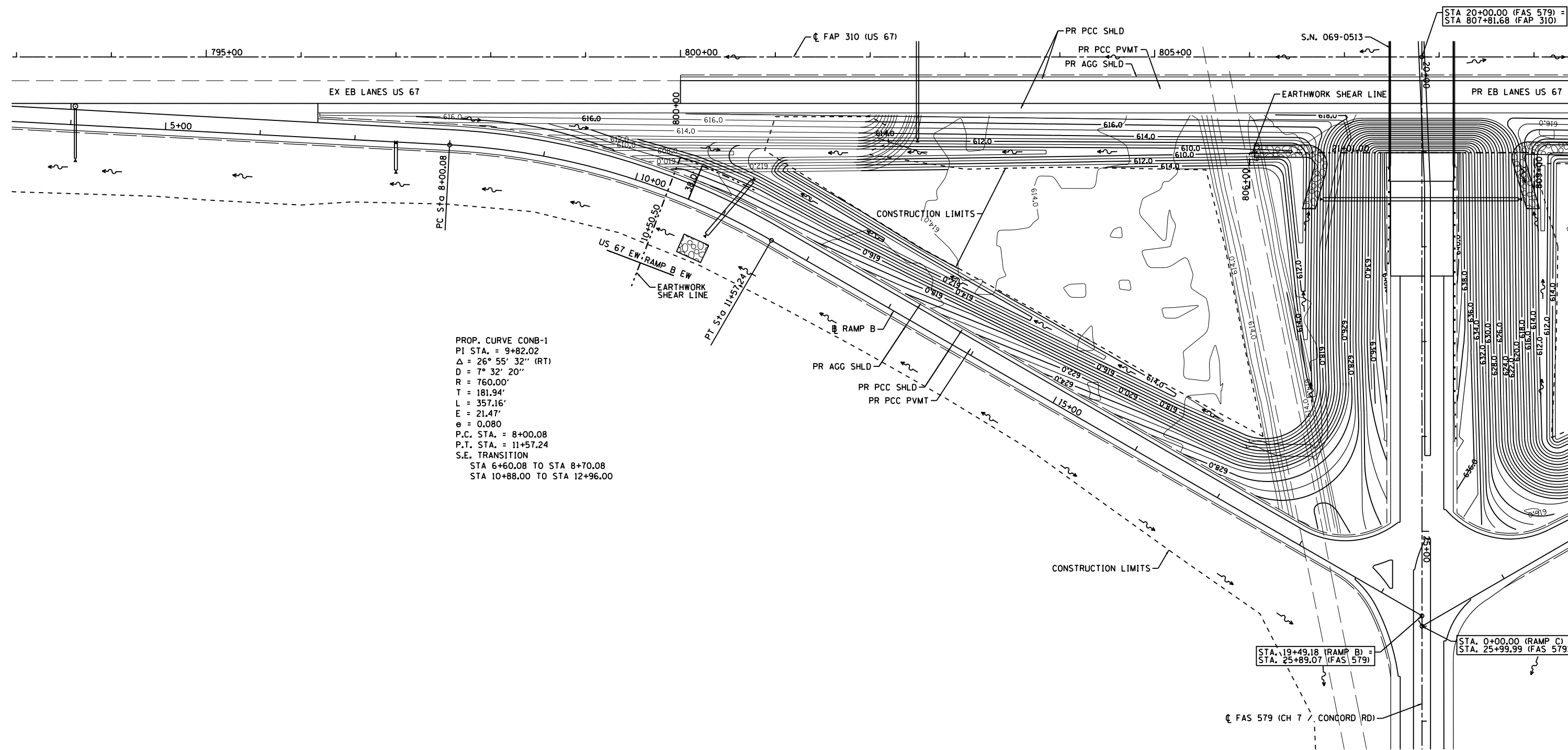
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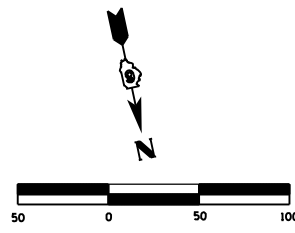
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	321
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROP. CURVE CONB-1
 PI STA. = 9+82.02
 Δ = 26° 55' 32" (RT)
 D = 7° 32' 20"
 R = 760.00'
 T = 181.94'
 L = 357.16'
 E = 21.47'
 e = 0.080
 P.C. STA. = 8+00.08
 P.T. STA. = 11+57.24
 S.E. TRANSITION
 STA 6+60.08 TO STA 8+70.08
 STA 10+88.00 TO STA 12+96.00



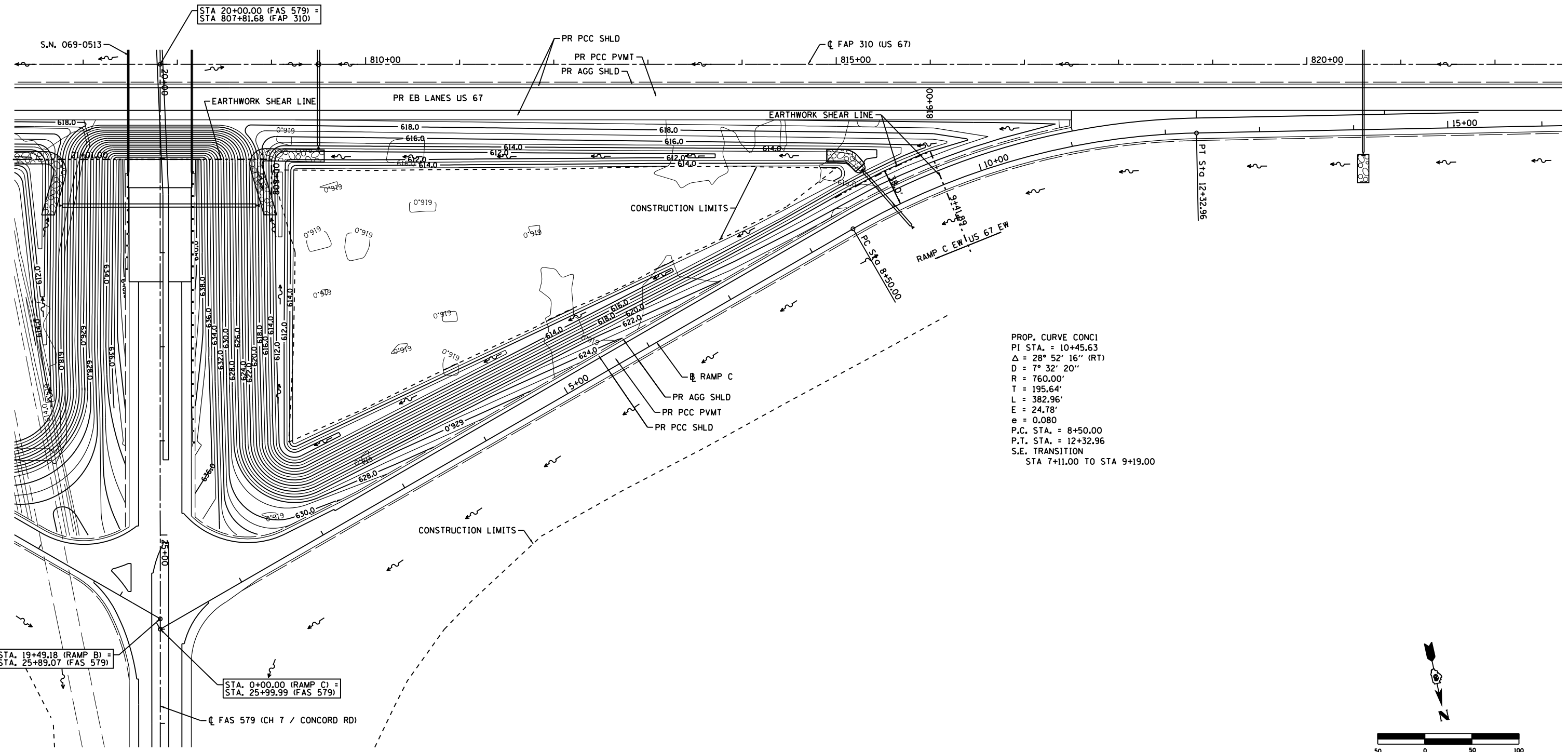
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCHANGE INFIELD
 GRADING PLAN
 RAMP B
 FAP 310 (US 67) & CONCORD RD
 DATE 3/09
 DRAWN BY SEB
 CHECKED BY

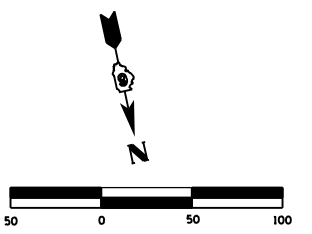
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	322
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

806100:28 AM

\$FILE\$



PROP. CURVE CONC1
 PI STA. = 10+45.63
 $\Delta = 28^\circ 52' 16''$ (RT)
 $D = 7^\circ 32' 20''$
 $R = 760.00'$
 $T = 195.64'$
 $L = 382.96'$
 $E = 24.78'$
 $e = 0.080$
 P.C. STA. = 8+50.00
 P.T. STA. = 12+32.96
 S.E. TRANSITION
 STA 7+11.00 TO STA 9+19.00



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCHANGE INFIELD
 GRADING PLAN
 RAMP C
 FAP 310 (US 67) & CONCORD RD

DATE 3/09
 DRAWN BY SEB
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	323
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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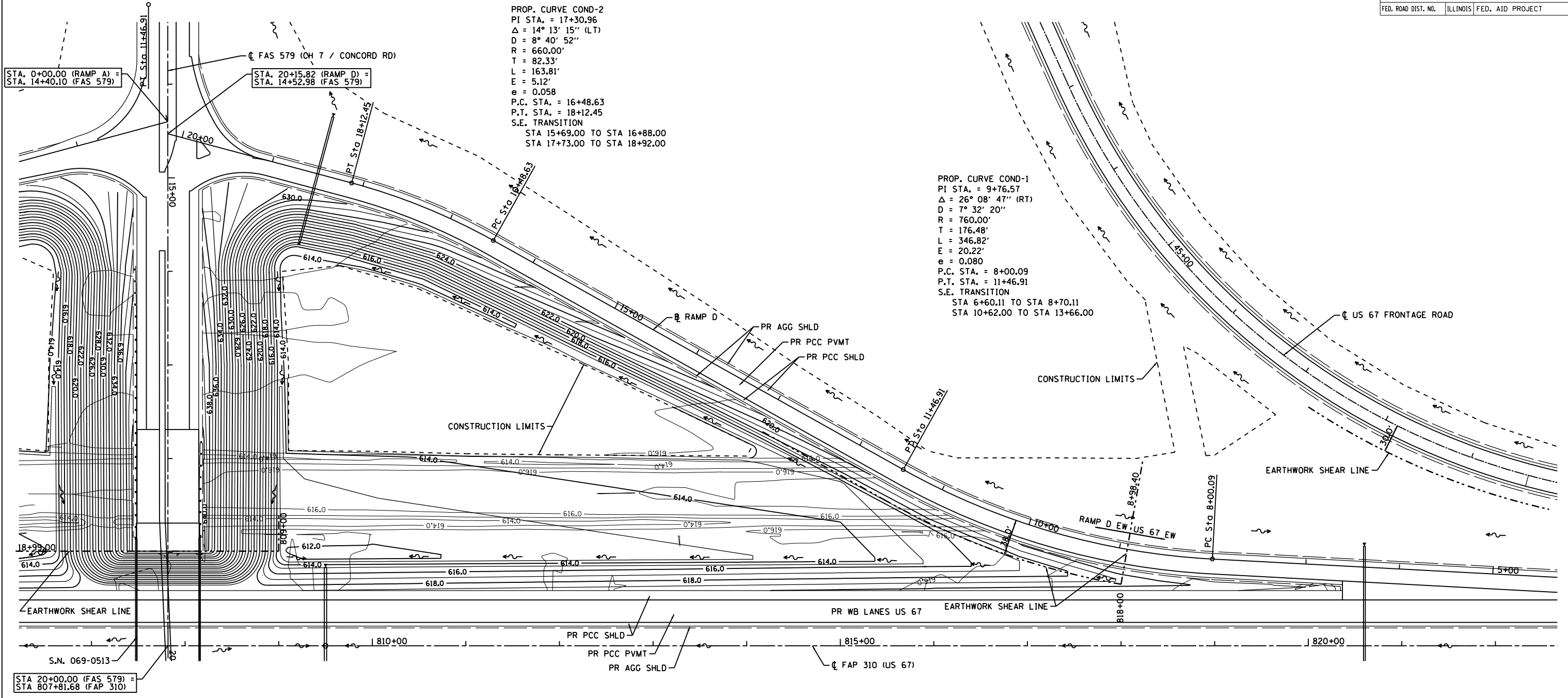
Mar-30-2011 09:39:35AM

806+00

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PROP. CURVE COND-2
 PI STA. = 17+30.96
 $\Delta = 14^\circ 13' 15''$ (LT)
 $D = 8^\circ 40' 52''$
 $R = 660.00'$
 $T = 82.33'$
 $L = 163.81'$
 $E = 5.12'$
 $e = 0.058$
 P.C. STA. = 16+48.63
 P.T. STA. = 18+12.45
 S.E. TRANSITION
 STA 15+69.00 TO STA 16+88.00
 STA 17+73.00 TO STA 18+92.00

PROP. CURVE COND-1
 PI STA. = 9+76.57
 $\Delta = 26^\circ 08' 47''$ (RT)
 $D = 7^\circ 32' 20''$
 $R = 760.00'$
 $T = 176.48'$
 $L = 346.82'$
 $E = 20.22'$
 $e = 0.080$
 P.C. STA. = 8+00.09
 P.T. STA. = 11+46.91
 S.E. TRANSITION
 STA 6+60.11 TO STA 8+70.11
 STA 10+62.00 TO STA 13+66.00



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INTERCHANGE INFIELD
 GRADING PLAN
 RAMP D
 FAP 310 (US 67) & CONCORD RD

DATE 3/09
 DRAWN BY SEB
 CHECKED BY

Benchmark: BM#PC3 - 60d Spike in Power Pole at Northeast quad of U.S. 67/IL 104 and Arenzville/Concord Road. Sta. 804+42.4, 108.6' Lt. of Proposed C of Roadway. Elev. 615.941

Existing Structure: None

INDEX OF SHEETS

Sheet No.	Description
1	- General Plan & Elevation
2-4	- Top of Slab Elevations
5	- Top of South Approach
6	- Top of North Approach
7	- Superstructure
8	- Diaphragm Details
9	- Superstructure Details
10-11	- Bridge Approach Slab Details
12	- 54" PPC I-Beam Details
13	- 54" PPC I-Beam Details
14	- Abutments
15	- Pier
16	- Pier Details
17	- Bar Splicer Assembly Details
18-20	- Boring Logs

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	324
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1 OF 20 SHEETS

Contract No. 72667

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		322.3	322.3
Structure Excavation	Cu. Yd.		214.1	214.1
Concrete Structures	Cu. Yd.		240.6	240.6
Concrete Superstructure	Cu. Yd.	721.4		721.4
Bridge Deck Grooving	Sq. Yd.	1634		1634
Protective Coat	Sq. Yd.	2141		2141
F & E Precast Prestressed Conc. I-Beams, 54 In.	Foot	2200		2200
Reinforcement Bars, Epoxy Coated	Pound	161780	27520	189300
Slope Wall 4 Inch	Sq. Yd.	713		713
Furnishing Steel Piles, HP 12x63	Foot		1968	1968
Furnishing Steel Piles, HP 14x73	Foot		2448	2448
Driving Piles	Foot		4416	4416
Test Pile, HP 14x73	Each		2	2
Name Plate	Each	1		1
Bar Splicers	Each	138		138
Pipe Underdrains For Structures 4"	Foot		220	220
Concrete Encasement	Cu. Yd.		14.2	14.2

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).
 Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq.ft.
 Slipping of the parapets is not allowed.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3500$ p.s.i.
 $f_y = 60000$ p.s.i. (Reinforcement)
PRECAST PRESTRESSED UNITS

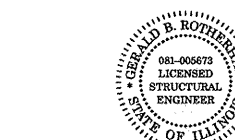
$f'_c = 6000$ p.s.i.
 $f'_{ci} = 5000$ p.s.i.
 $f'_s = 270000$ p.s.i. ($\frac{1}{2}$ " low lax strands)
 $f_{si} = 201960$ p.s.i. ($\frac{1}{2}$ " low lax strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.048g
 Site Coefficient (S) = 1.5

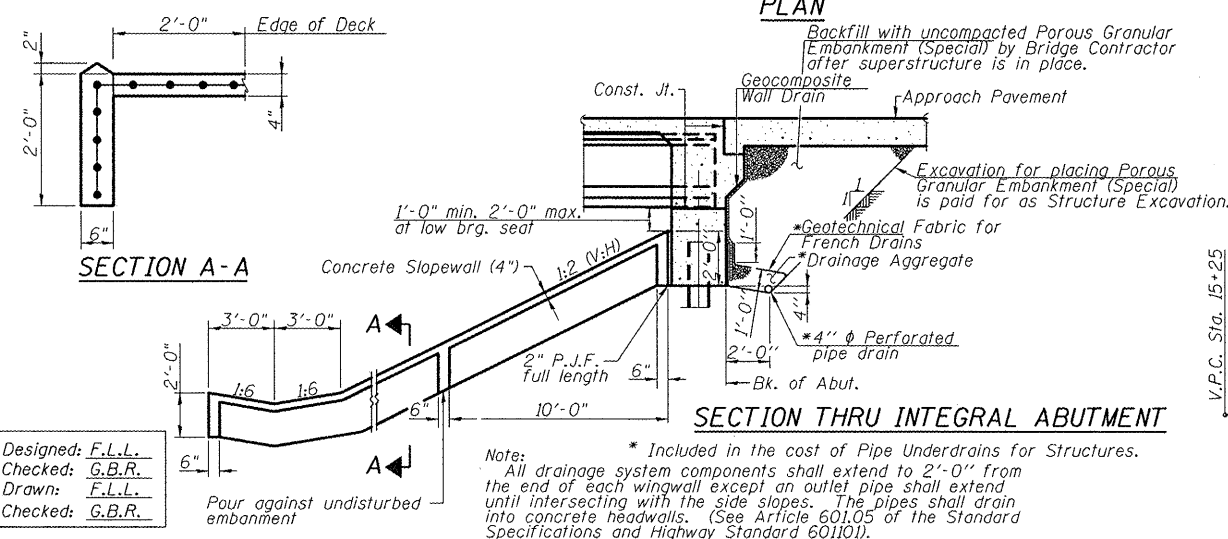
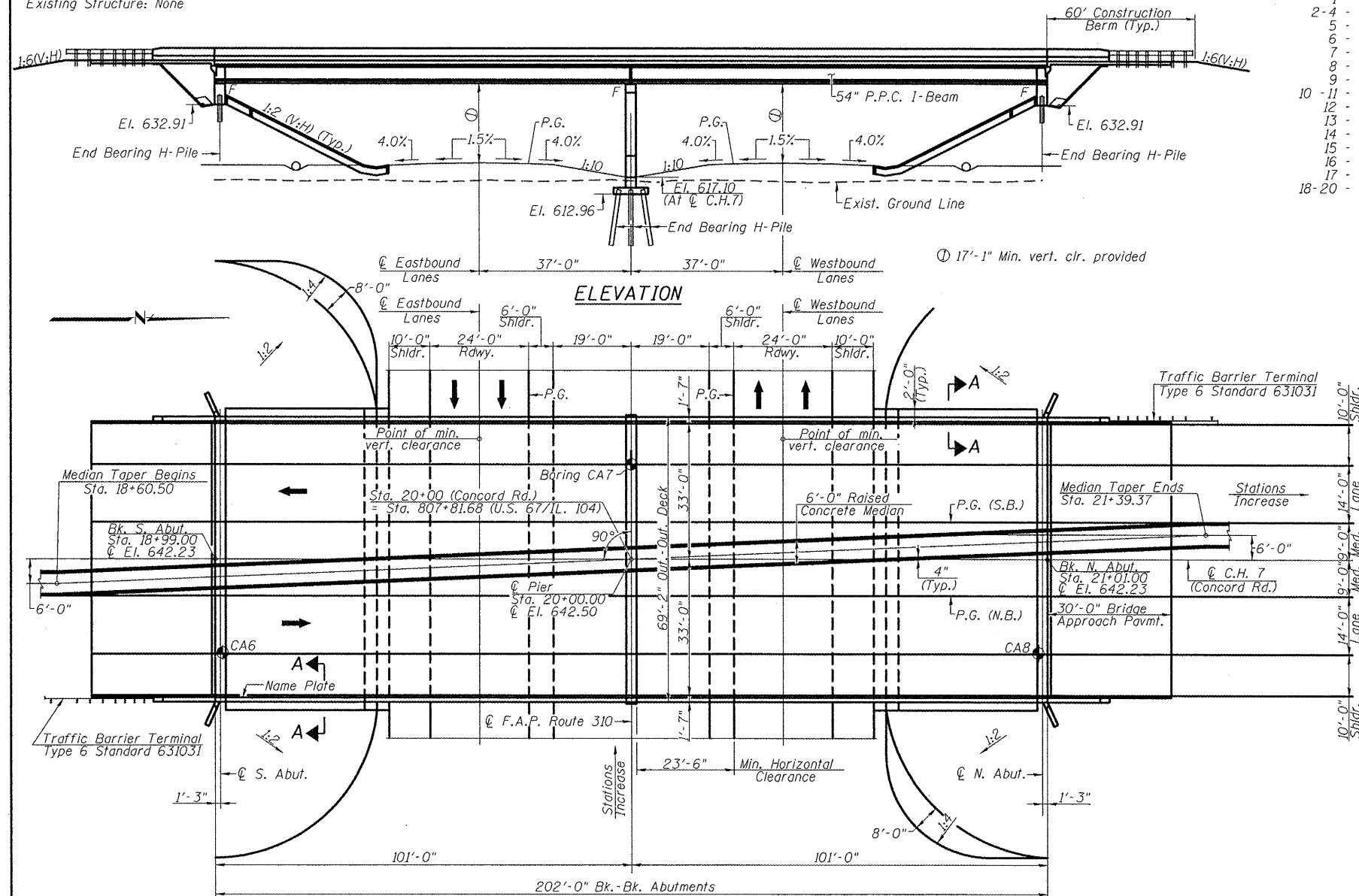
NAME PLATE

(Standard 515001)

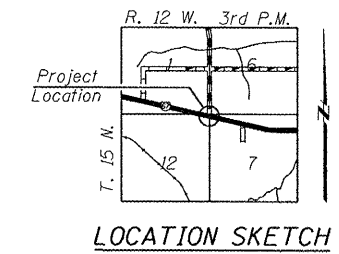
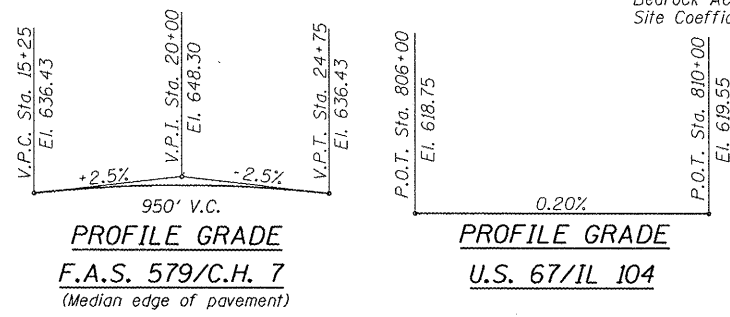


Gerald R. Rothert 5/4/11
 Expiration: 11/30/2012

GENERAL PLAN AND ELEVATION
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
D. Carl Pusey (150)
 ENGINEER OF BRIDGES AND STRUCTURES



Benchmark: BM#PC3 - 60d Spike in Power Pole at Northeast quad of U.S. 67/IL 104 and Arenzville/Concord Road. Sta. 804+42.4, 108.6' Lt. of Proposed C of Roadway. Elev. 615.941

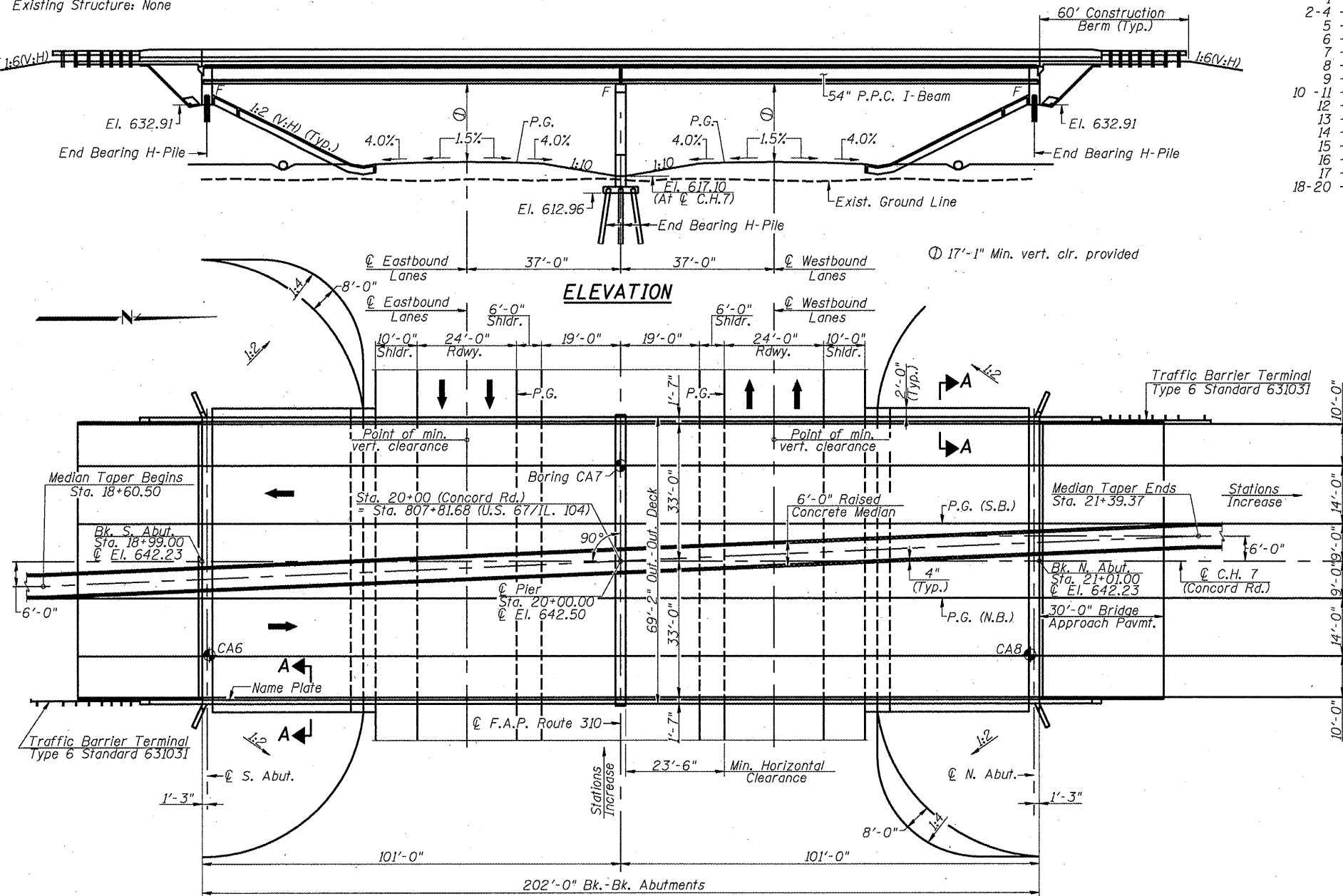
Existing Structure: None

INDEX OF SHEETS

Sheet No.	Description
1	General Plan & Elevation
2-4	Top of Slab Elevations
5	Top of South Approach
6	Top of North Approach
7	Superstructure
8	Diaphragm Details
9	Superstructure Details
10-11	Bridge Approach Slab Details
12	54" PPC I-Beam Details
13	54" PPC I-Beam Details
14	Abutments
15	Pier
16	Pile Details
17	Bar Splicer Assembly Details
18-20	Boring Logs

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	324A
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET NO. 1 OF 20 SHEETS	

Contract No. 72667



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		322.3	322.3
Structure Excavation	Cu. Yd.		214.1	214.1
Concrete Structures	Cu. Yd.		240.6	240.6
Concrete Superstructure	Cu. Yd.	721.4		721.4
Bridge Deck Grooving	Sq. Yd.	1634		1634
Protective Coat	Sq. Yd.	2141		2141
F & E Precast Prestressed Conc. I-Beams, 54 In.	Foot	2200		2200
Reinforcement Bars, Epoxy Coated	Pound	161780	27520	189300
Slope Wall 4 Inch	Sq. Yd.	713		713
Furnishing Steel Piles, HP 12x63	Foot		1968	1968
Furnishing Steel Piles, HP 14x73	Foot		2448	2448
Driving Piles	Foot		4416	4416
Test Pile, HP 14x73	Each		2	2
Name Plate	Each	1		1
Bar Splicers	Each	138		138
Pipe Underdrains For Structures 4"	Foot		220	220
Concrete Encasement	Cu. Yd.		14.2	14.2

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).
 Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq.ft.
 Slipforming of the parapets is not allowed.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications.

DESIGN STRESSES

FIELD UNITS

f'c = 3500 p.s.i.

f'y = 60000 p.s.i. (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6000 p.s.i.

f'ci = 5000 p.s.i.

f's = 270000 p.s.i. (1/2" low lax strands)

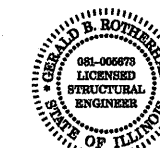
f'si = 201960 p.s.i. (1/2" low lax strands)

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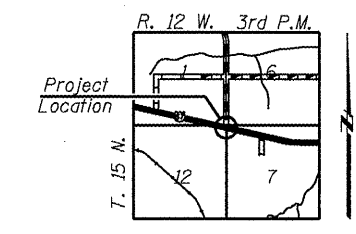
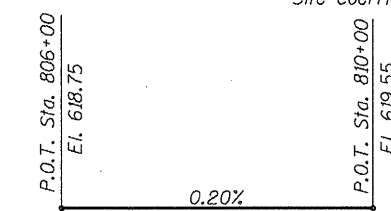
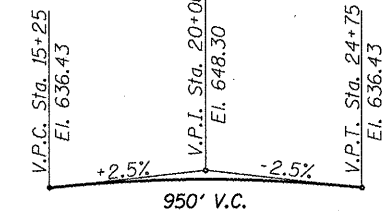
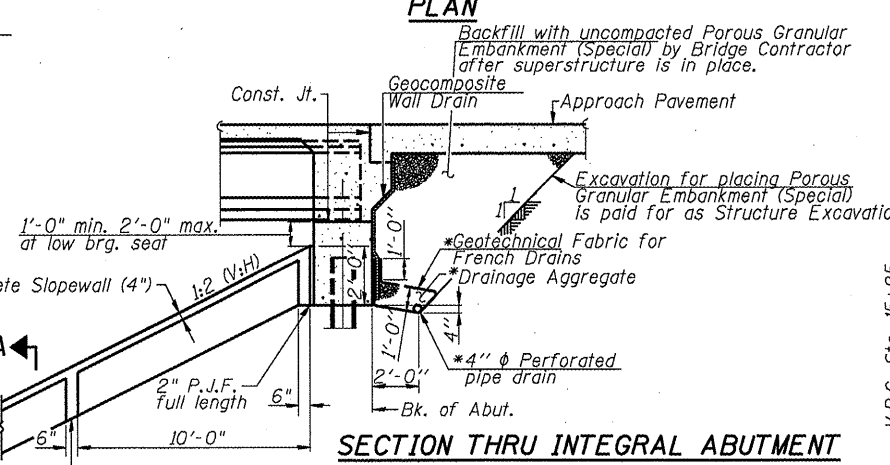
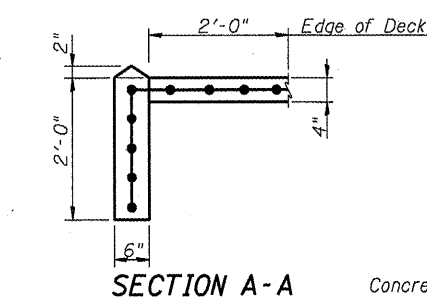
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.048g
 Site Coefficient (S) = 1.5

STA. 807+81.68
 BUILT BY
 STATE OF ILLINOIS
 F.A.S. RTE. 579 SECTION 69-3(3HB)
 LOADING HS20
 STR. NO. 069-0513

NAME PLATE
 (Standard 515001)



5/4/11
 Expiration: 11/30/2012



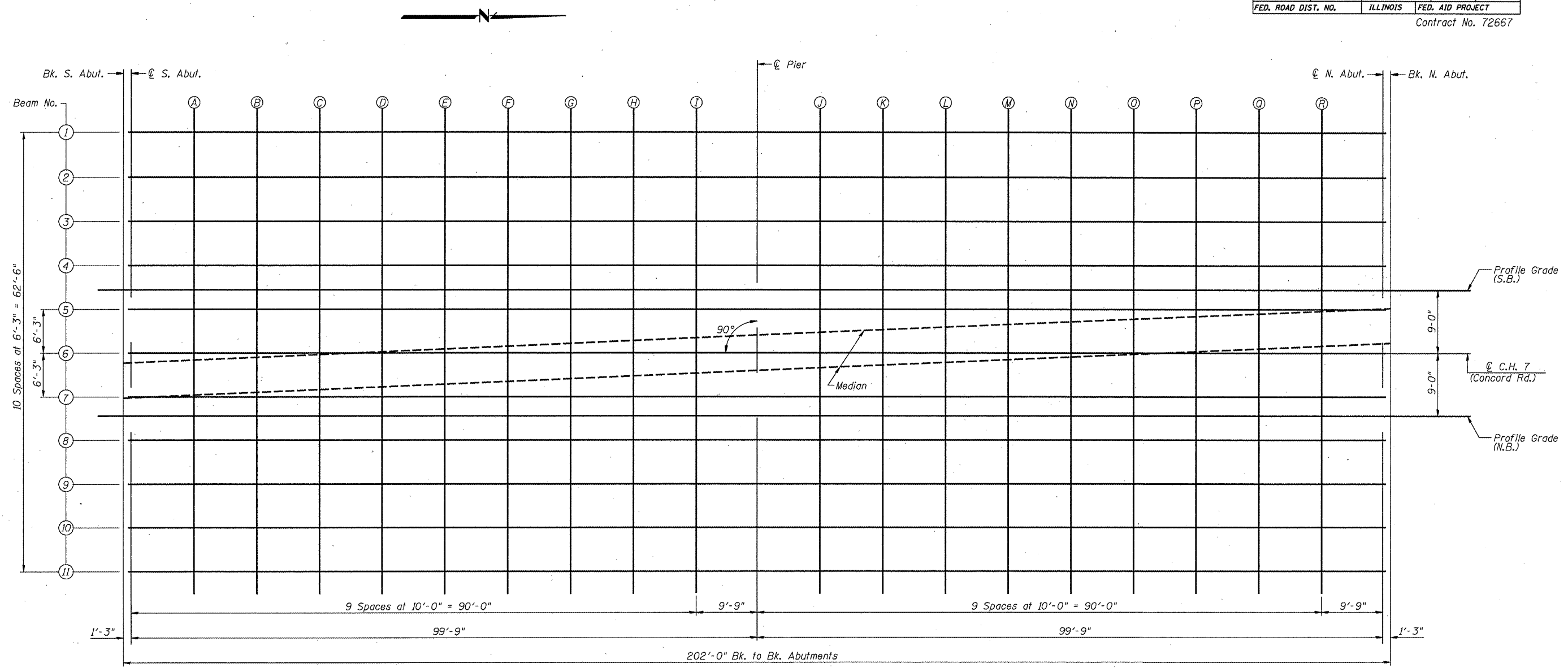
GENERAL PLAN AND ELEVATION
 C.H. 7 (CONCORD RD.) (F.A.S. 579)
 OVER U.S. 67/IL 104 (F.A.P. 310)
 MORGAN COUNTY
 STA. 807+81.68 - SECTION 69-3(3HB)
 S.N. 069-0513

Designed: F.L.L.
 Checked: G.B.R.
 Drawn: F.L.L.
 Checked: G.B.R.

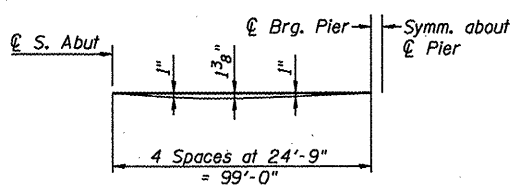
Note: * Included in the cost of Pipe Underdrains for Structures. All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	325
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	Contract No. 72667	

SHEET NO. 2
OF 20 SHEETS

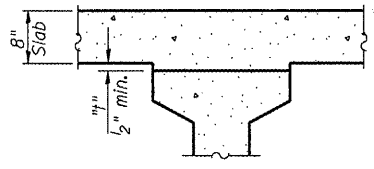


PLAN



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

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets 3 and 4 of 20.



To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

TOP OF SLAB ELEVATIONS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	328
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 5
OF 20 SHEETS

Contract No. 72667

CURB LINE (S.B.)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	-33.00	641.51
A	18+79.00	-33.00	641.57
B	18+89.00	-33.00	641.63
Bk. S. ABut	18+99.00	-33.00	641.69

EDGE OF PAVEMENT (S.B.)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	-23.00	641.71
A	18+79.00	-23.00	641.77
B	18+89.00	-23.00	641.83
Bk. S. ABut	18+99.00	-23.00	641.89

PROFILE GRADE (S.B.)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	-9.00	641.92
A	18+79.00	-9.00	641.98
B	18+89.00	-9.00	642.04
Bk. S. ABut	18+99.00	-9.00	642.10

CENTERLINE ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	0.00	642.05
A	18+79.00	0.00	642.12
B	18+89.00	0.00	642.18
Bk. S. ABut	18+99.00	0.00	642.23

PROFILE GRADE (N.B.)

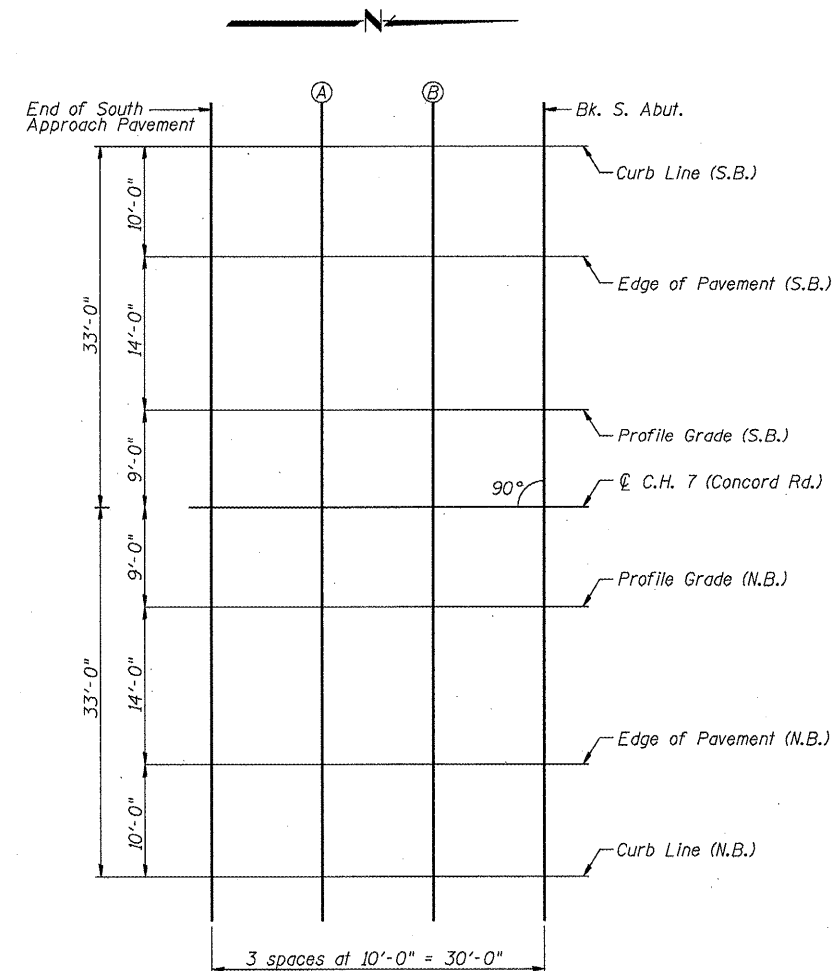
Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	9.00	641.92
A	18+79.00	9.00	641.98
B	18+89.00	9.00	642.04
Bk. S. ABut	18+99.00	9.00	642.10

EDGE OF PAVEMENT (N.B.)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	23.00	641.71
A	18+79.00	23.00	641.77
B	18+89.00	23.00	641.83
Bk. S. ABut	18+99.00	23.00	641.89

CURB LINE (N.B.)

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Pav't	18+69.00	33.00	641.51
A	18+79.00	33.00	641.57
B	18+89.00	33.00	641.63
Bk. S. ABut	18+99.00	33.00	641.69



PLAN

Note: Offsets are from C.H. 7 (Concord Rd.)

**TOP OF SOUTH APPROACH
SLAB ELEVATIONS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	329
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 6
OF 20 SHEETS

Contract No. 72667

CURB LINE (S.B.)

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	-33.00	641.69
A	21+11.00	-33.00	641.63
B	21+21.00	-33.00	641.57
End N. Appr. Pav't	21+31.00	-33.00	641.51

EDGE OF PVEMENT (S.B.)

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	-23.00	641.89
A	21+11.00	-23.00	641.83
B	21+21.00	-23.00	641.77
End N. Appr. Pav't	21+31.00	-23.00	641.71

PROFILE GRADE (S.B.)

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	-9.00	642.10
A	21+11.00	-9.00	642.04
B	21+21.00	-9.00	641.98
End N. Appr. Pav't	21+31.00	-9.00	641.92

CENTERLINE ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	0.00	642.23
A	21+11.00	0.00	642.18
B	21+21.00	0.00	642.12
End N. Appr. Pav't	21+31.00	0.00	642.05

PROFILE GRADE (N.B.)

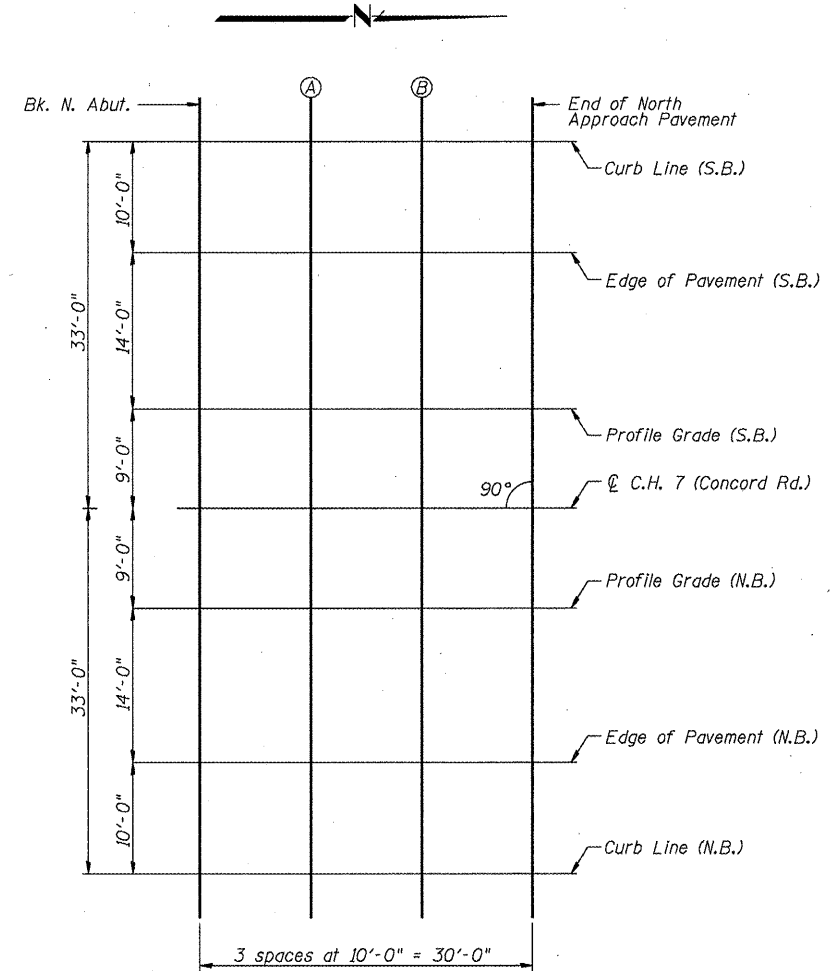
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	9.00	642.10
A	21+11.00	9.00	642.04
B	21+21.00	9.00	641.98
End N. Appr. Pav't	21+31.00	9.00	641.92

EDGE OF PAVEMENT (N.B.)

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	23.00	641.89
A	21+11.00	23.00	641.83
B	21+21.00	23.00	641.77
End N. Appr. Pav't	21+31.00	23.00	641.71

CURB LINE (N.B.)

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	21+01.00	33.00	641.69
A	21+11.00	33.00	641.63
B	21+21.00	33.00	641.57
End N. Appr. Pav't	21+31.00	33.00	641.51



PLAN

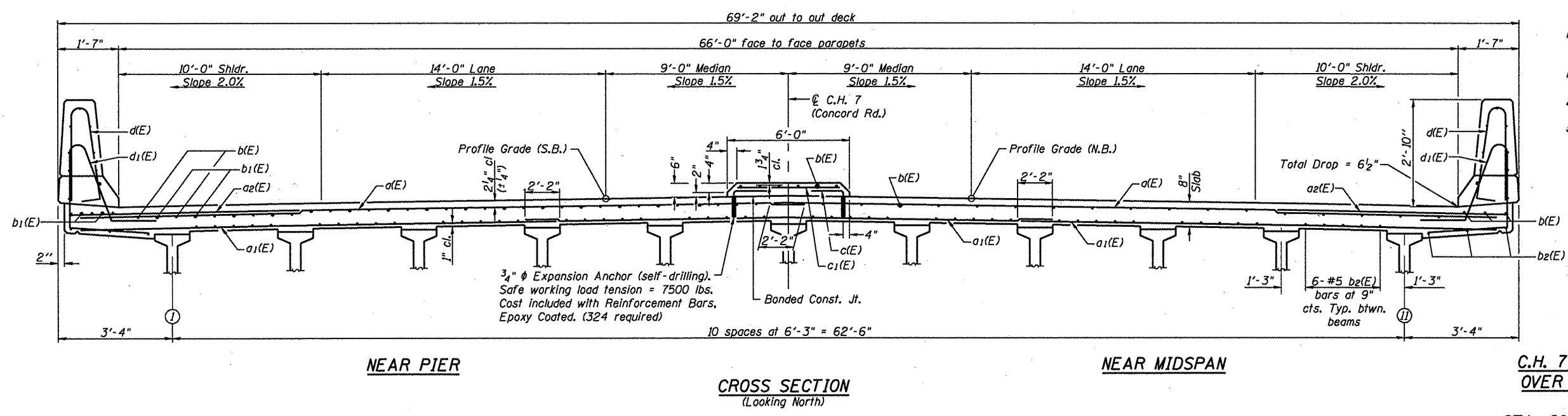
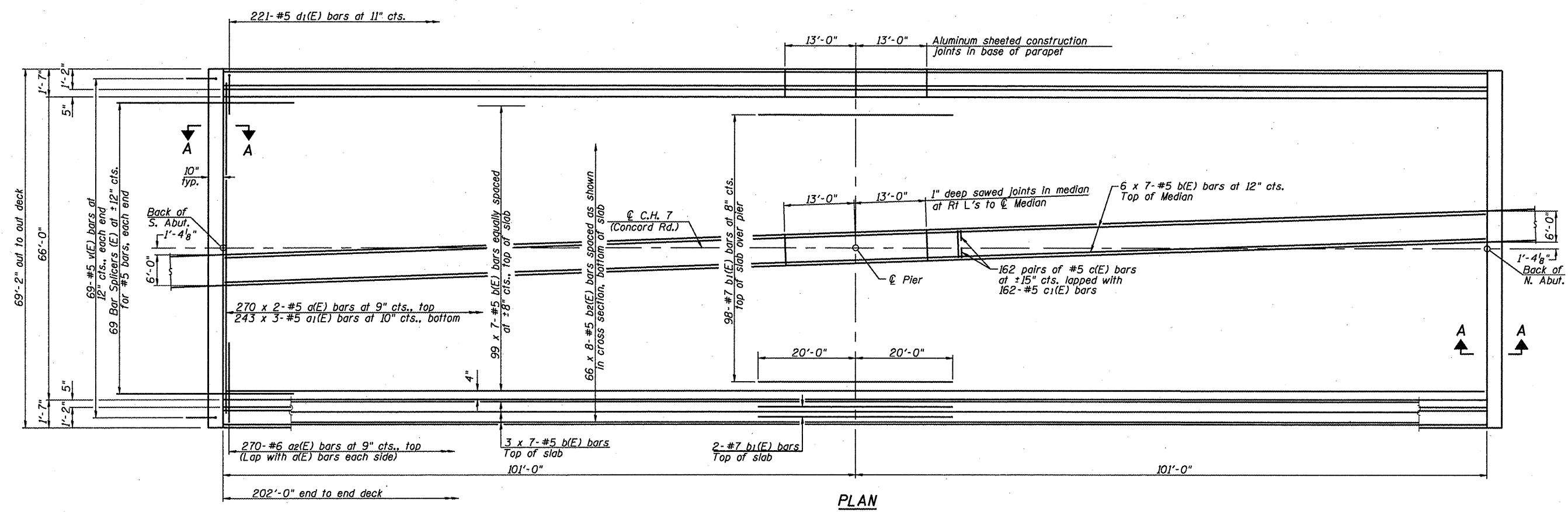
Note: Offsets are from C.H. 7 (Concord Rd.)

**TOP OF NORTH APPROACH
SLAB ELEVATIONS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	330
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 7
OF 20 SHEETS

Contract No. 72667



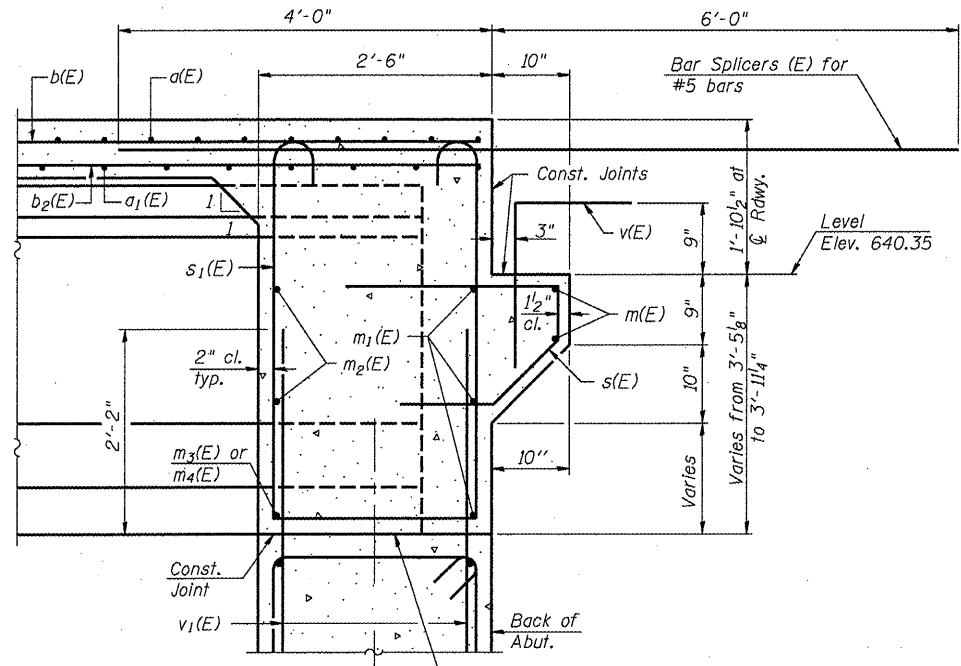
Notes:
See Sheet 9 of 20 for Superstructure Details, Parapet Reinforcement, and Bill of Material.
Bars Indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
For Section A-A and Diaphragm Details see Sheet 8 of 20.
See Sheet 17 of 20 for Bar Splicer Details.

MINIMUM BAR LAP
(Unless otherwise noted)
#5 bar = 1'-8"

SUPERSTRUCTURE
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

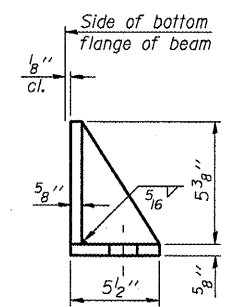
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 OF 20 SHEETS
F.A.S. 579	69-3(3HB)	MORGAN	793	331	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

Contract No. 72667



SECTION A-A

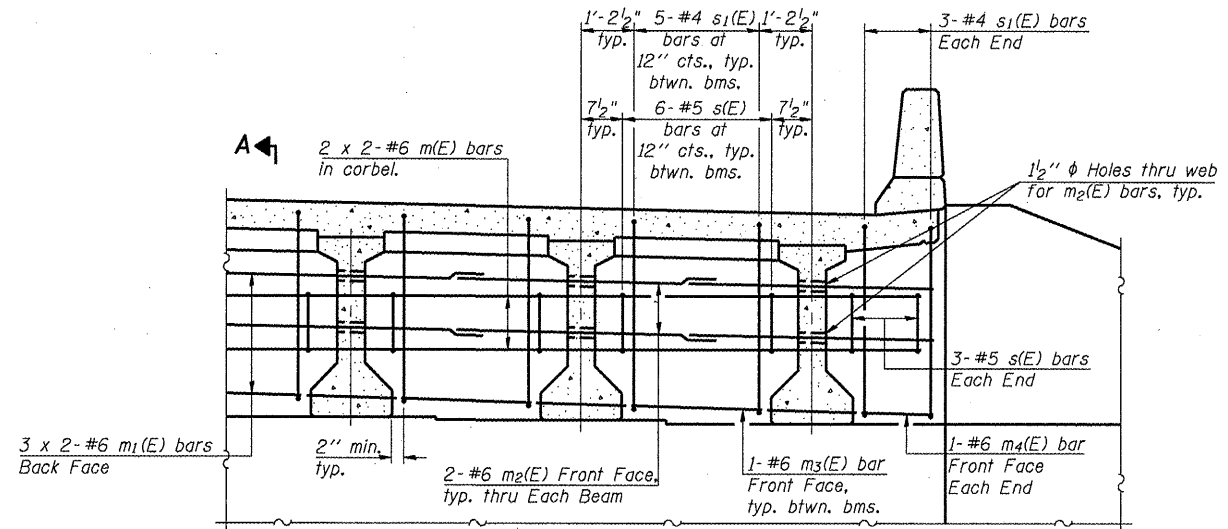
Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.



SIDE RETAINER

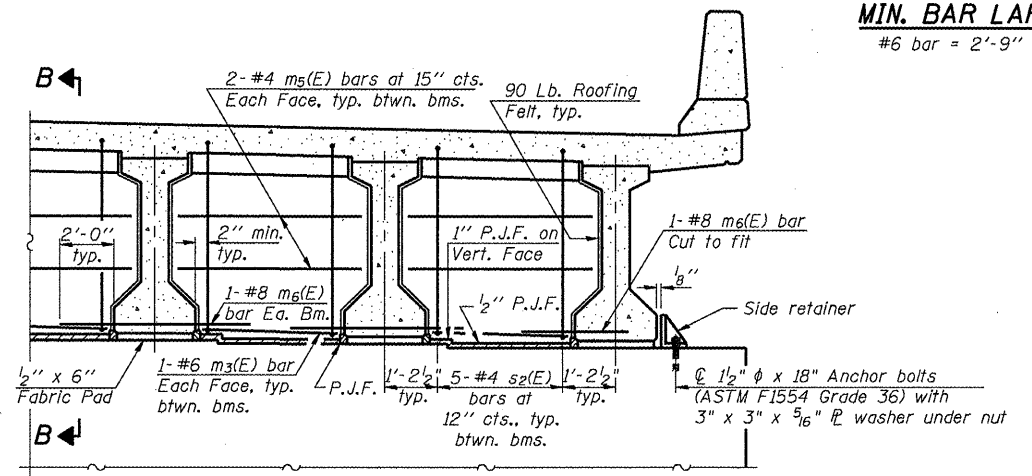
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

1/2" x 6" Fabric Pad
1-#6 m3(E) bar Each Face, typ. btwn. bms.
1-#8 m6(E) bar Ea. Bm.
1/2" P.J.F. on vertical face
1/2" P.J.F.
1-#6 m3(E) bar Each Face, typ. btwn. bms.
1-#8 m6(E) bar Cut to fit
1/2" P.J.F.
1-#6 m3(E) bar Each Face, typ. btwn. bms.
1-#8 m6(E) bar Cut to fit
1/2" P.J.F.
1-#6 m3(E) bar Each Face, typ. btwn. bms.
1-#8 m6(E) bar Cut to fit
1/2" P.J.F.



DIAPHRAGM ELEVATION AT ABUTMENT

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

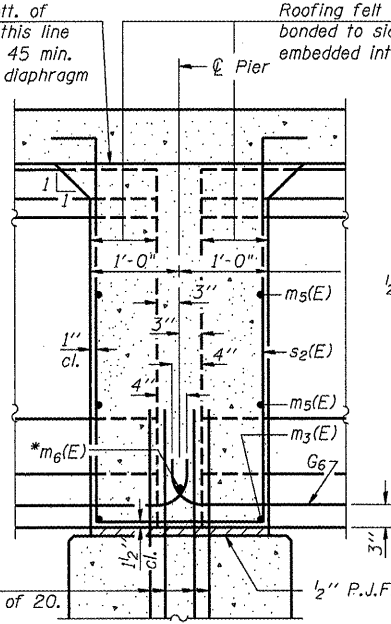


DIAPHRAGM ELEVATION AT PIER

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 20.
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 20.
For details of bars s(E), s1(E) and s2(E) see sheet 9 of 20.
The s(E), s1(E) and s2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
Cost of 90 Lb. roofing felt is included with Concrete Superstructure.
The side retainer shall be galvanized after shop fabrication according to AASHTO M 111. Cost of side retainer and anchor bolts shall be included with Concrete Structures.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

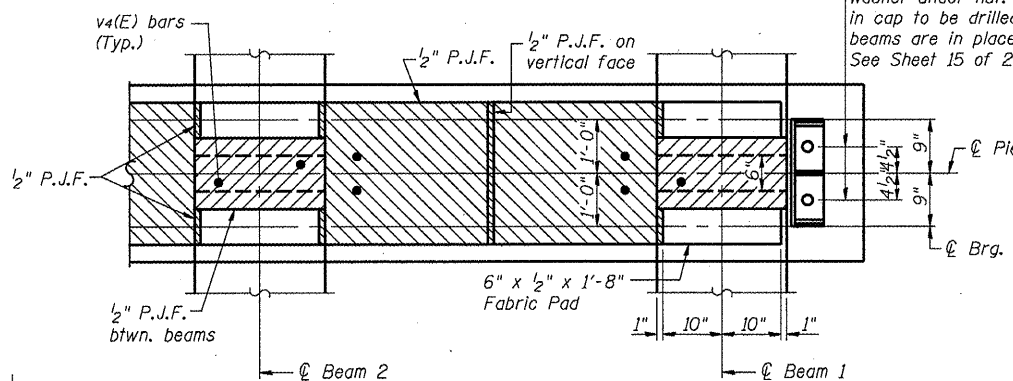
DIAPHRAGM DETAILS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.
Roofing felt shall be bonded to side of beam embedded into diaphragm.



SECTION B-B

* Tightly fasten the #8 bars together with No. 9 wire ties.

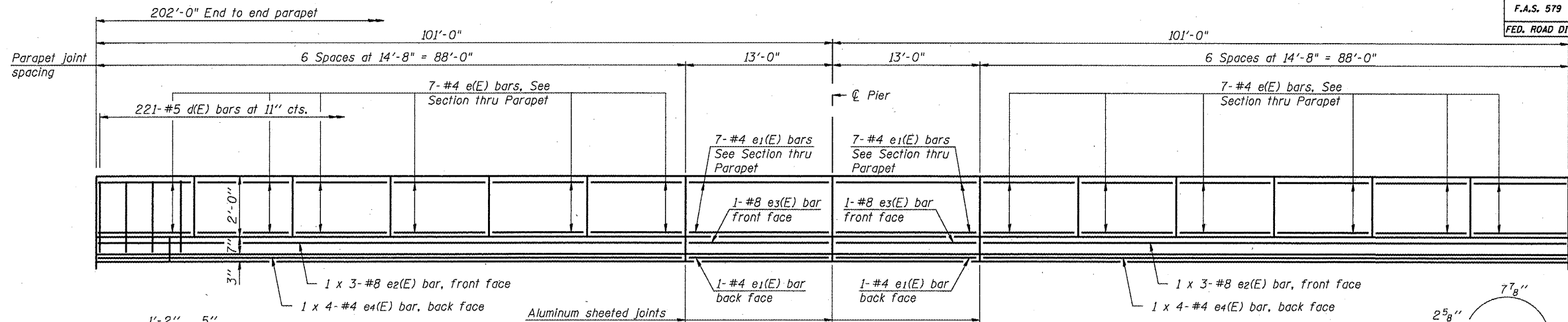


PARTIAL PLAN AT PIER CAP
(Showing bearing pad and P.J.F. details)

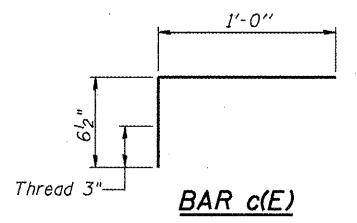
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	332
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 9
OF 20 SHEETS

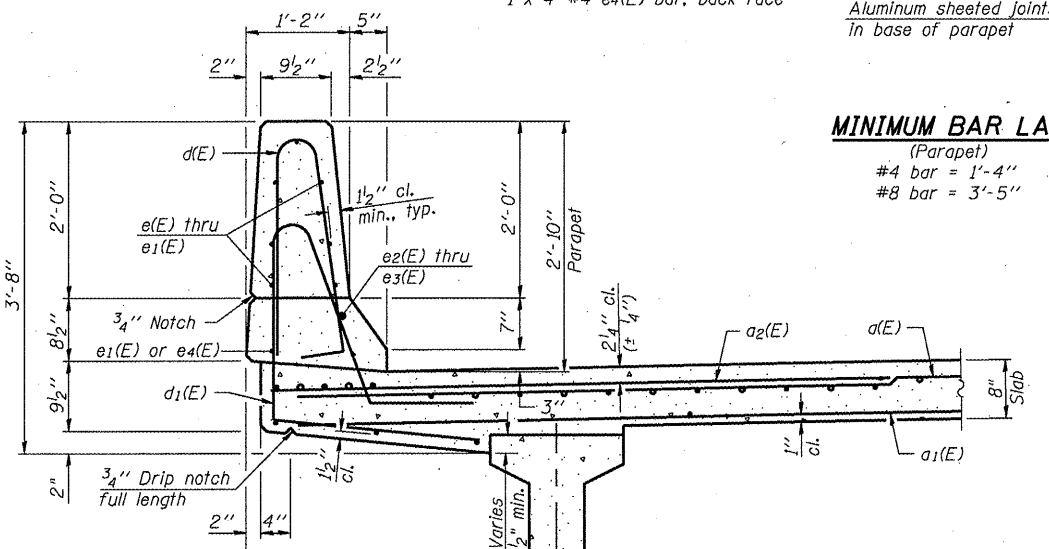
Contract No. 72667



INSIDE ELEVATION OF PARAPET

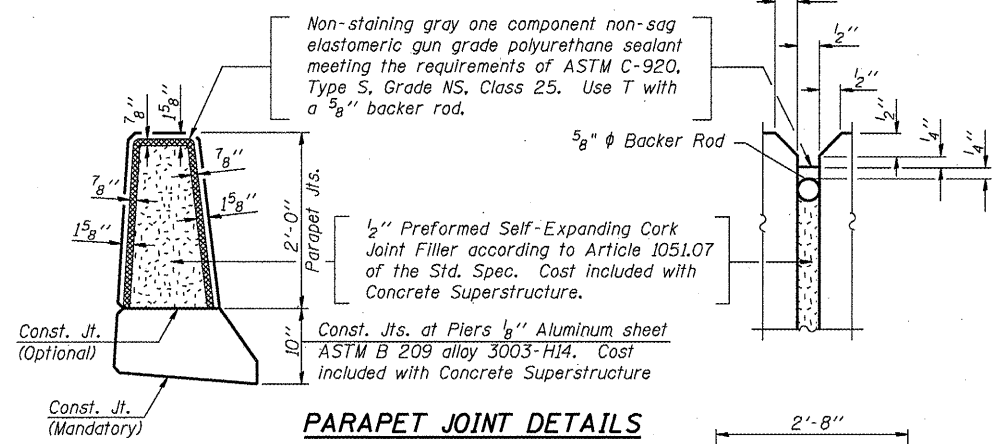


BAR c(E)

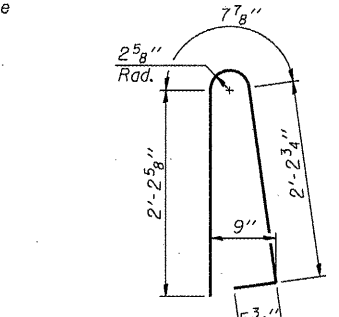


SECTION THRU PARAPET

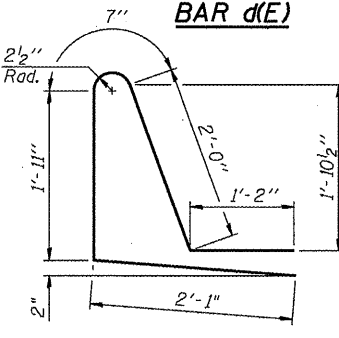
MINIMUM BAR LAP
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



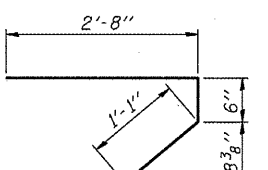
PARAPET JOINT DETAILS



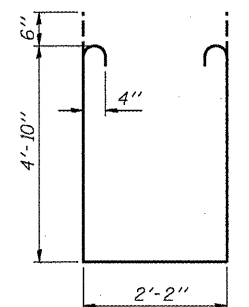
BAR d(E)



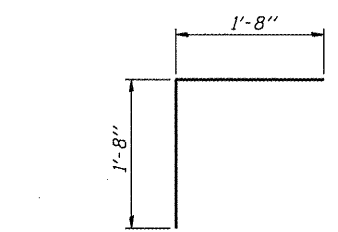
BAR d1(E)



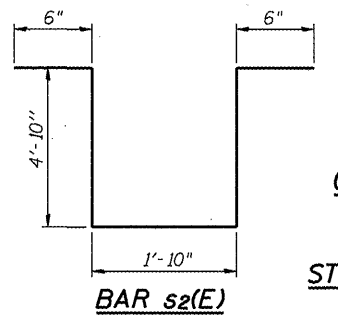
BAR s(E)



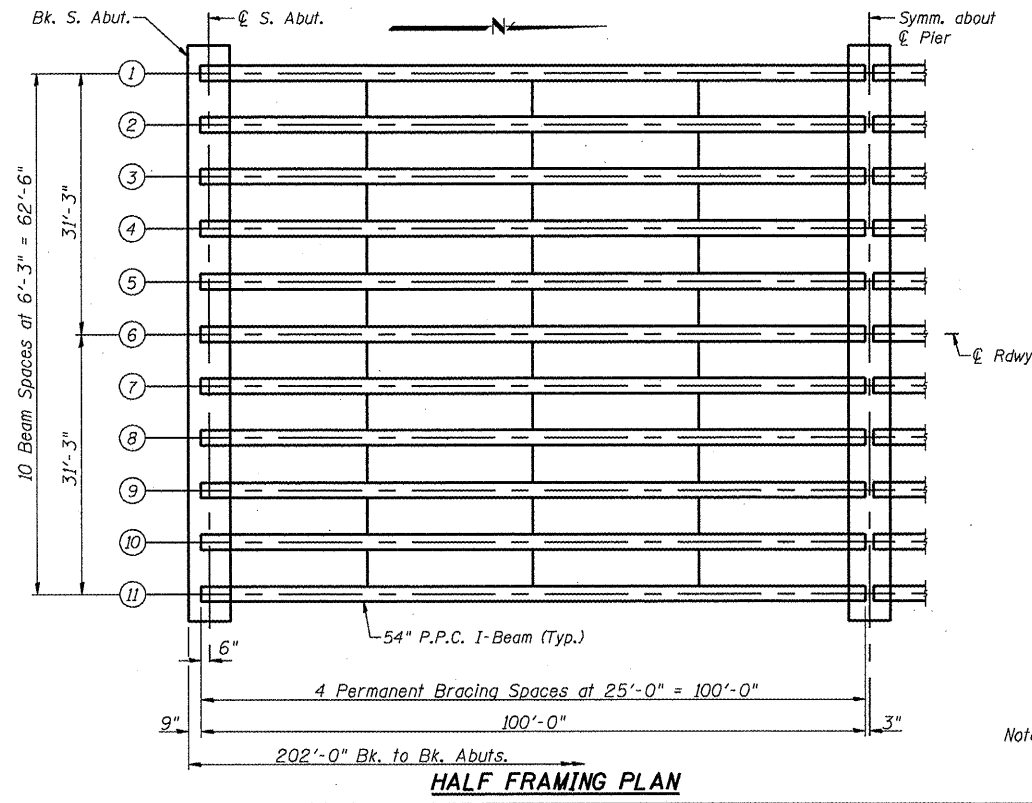
BAR s1(E)



BAR v(E)



BAR s2(E)



HALF FRAMING PLAN

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	540	#5	35'-0"	—
a1(E)	729	#5	24'-9"	—
a2(E)	540	#6	6'-6"	—
b(E)	777	#5	30'-6"	—
b1(E)	102	#7	40'-0"	—
b2(E)	528	#5	26'-10"	—
c(E)	324	#5	1'-6"	┌
c1(E)	162	#5	5'-2"	—
d(E)	442	#5	5'-7"	┌
d1(E)	442	#5	7'-9"	┌
e(E)	168	#4	14'-4"	—
e1(E)	32	#4	12'-8"	—
e2(E)	12	#8	32'-8"	—
e3(E)	4	#8	12'-8"	—
e4(E)	16	#4	23'-3"	—
m(E)	8	#6	34'-11"	—
m1(E)	12	#6	35'-10"	—
m2(E)	44	#6	9'-0"	—
m3(E)	40	#6	4'-1"	—
m4(E)	4	#6	2'-1"	—
m5(E)	40	#4	5'-5"	—
m6(E)	11	#8	5'-10"	—
s(E)	132	#5	6'-1"	┌
s1(E)	112	#4	12'-10"	┌
s2(E)	50	#4	12'-6"	┌
v(E)	138	#5	3'-4"	┌
Reinforcement Bars, Epoxy Coated			Lbs.	107410
Concrete Superstructure			Cu. Yds.	503.0

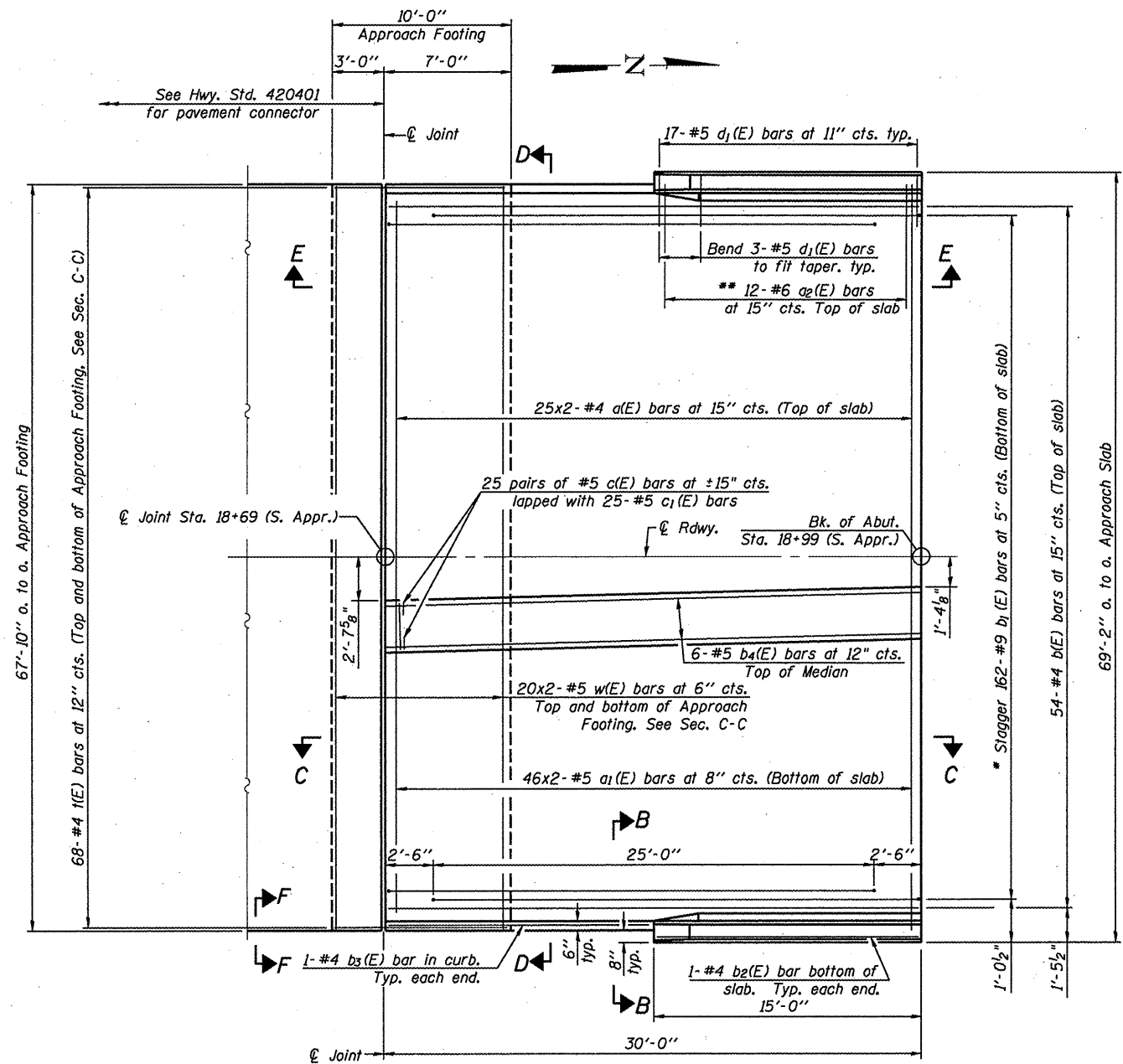
Bars indicated thus 1 x 3-#5 etc. indicates 1 line of bars with 3 lengths per line.

SUPERSTRUCTURE DETAILS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

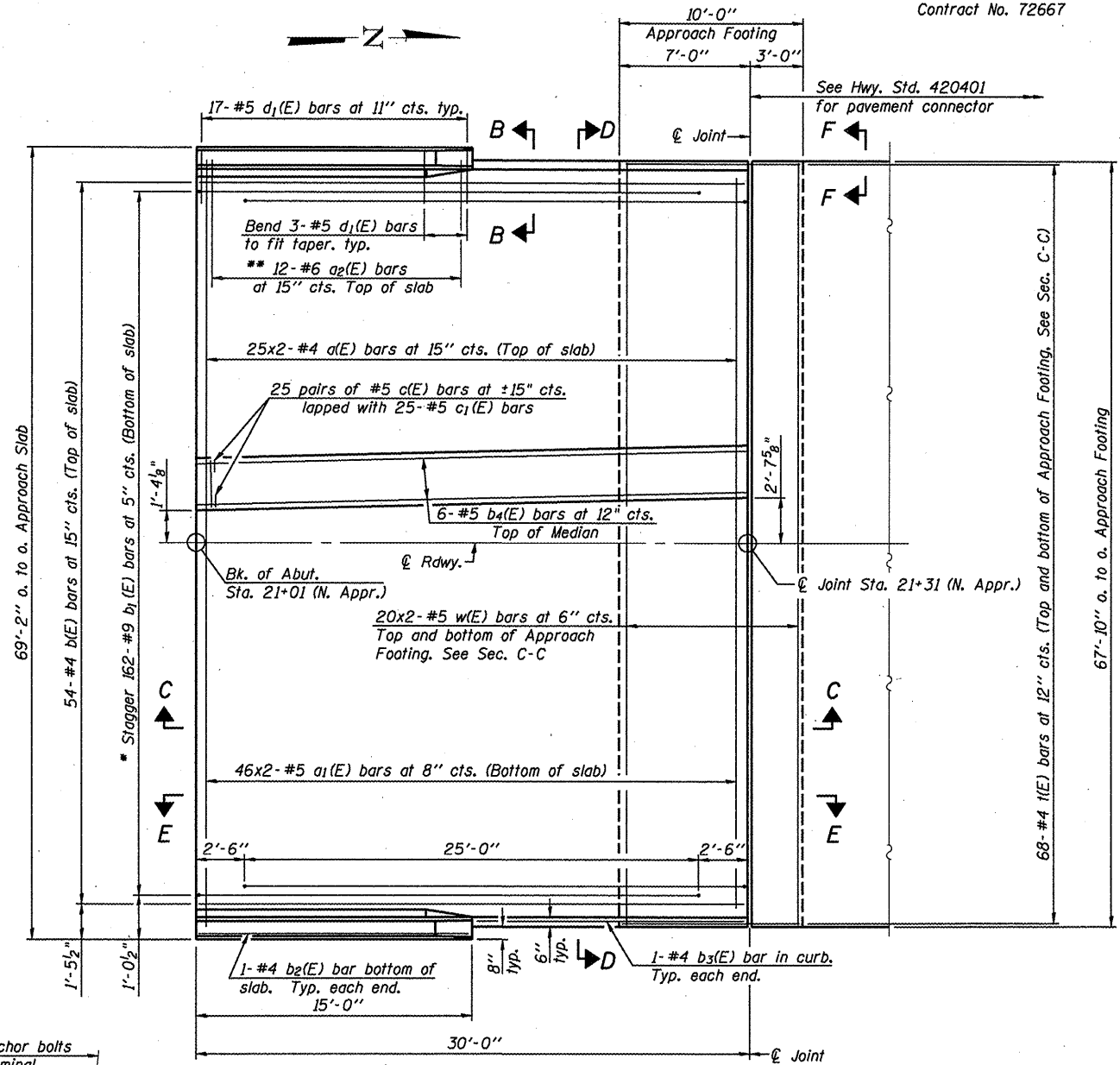
Note: See Sheet 13 of 20 for details of Permanent Bracing.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	333
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	Contract No. 72667	

SHEET NO. 10
OF 20 SHEETS



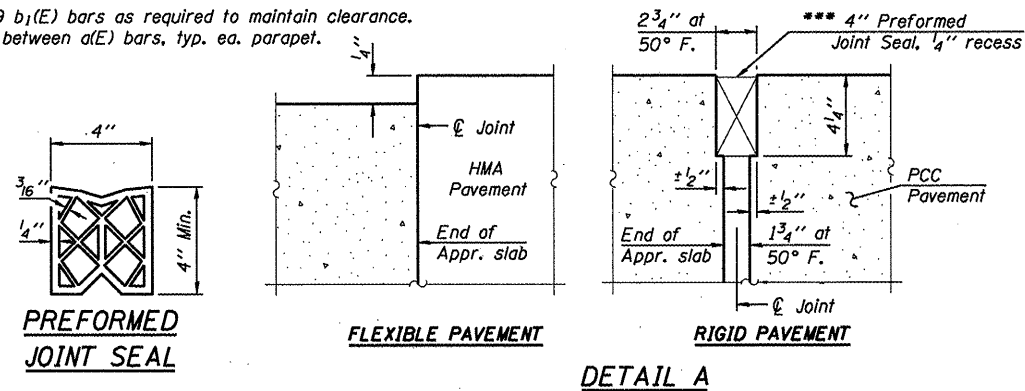
PLAN
(South Abutment)



PLAN
(North Abutment)

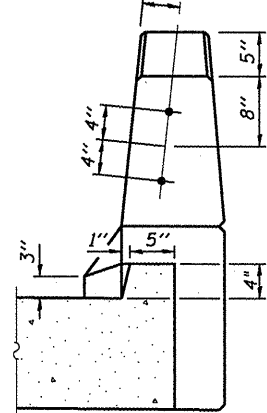
MIN. BAR LAP
#4 Bar = 1'-4"
#5 Bar = 1'-8"

- * Tilt #9 b1(E) bars as required to maintain clearance.
- ** Space between a(E) bars, typ. ea. parapet.

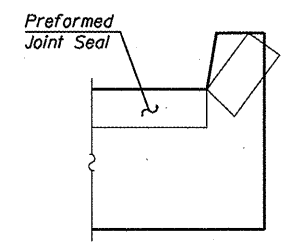


DETAIL A

1" Ø Anchor bolts
Type 5 terminal
connections only.



VIEW B-B



VIEW F-F

Angle Preformed Joint Seal at 45°
at curbs when req'd for drainage.

Notes:
See sheet 11 of 20 for Sections C-C & D-D and View E-E.
a(E) and a1(E) bar spacings measured along Rdwy.

*** Cost included with Concrete Superstructure.

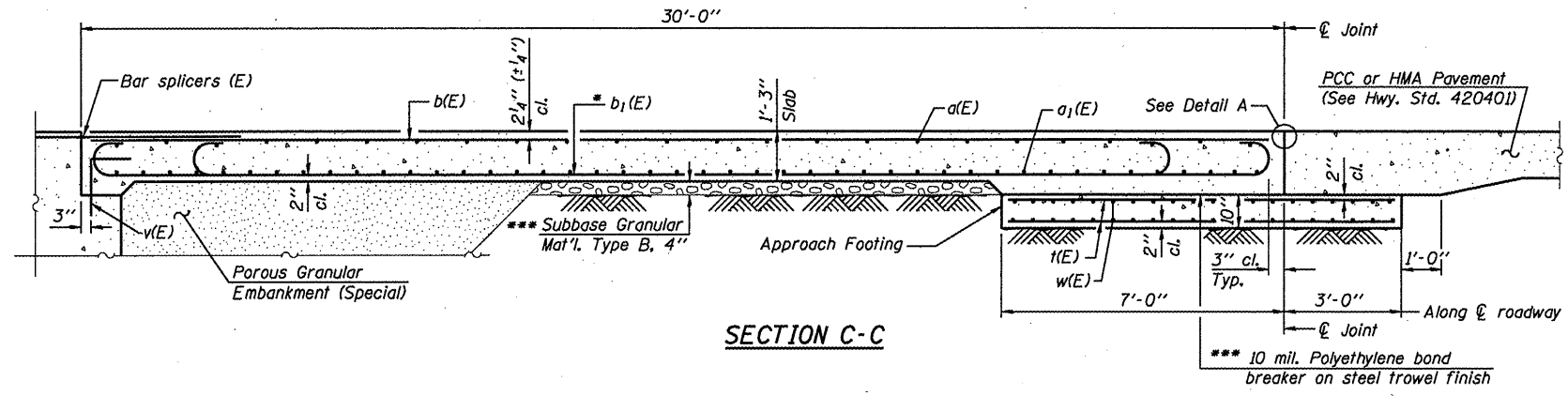
(Sheet 1 of 2)
APPROACH SLAB DETAILS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 OF 20 SHEETS
F.A.S. 579	69-3(3HB)	MORGAN	793	334	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

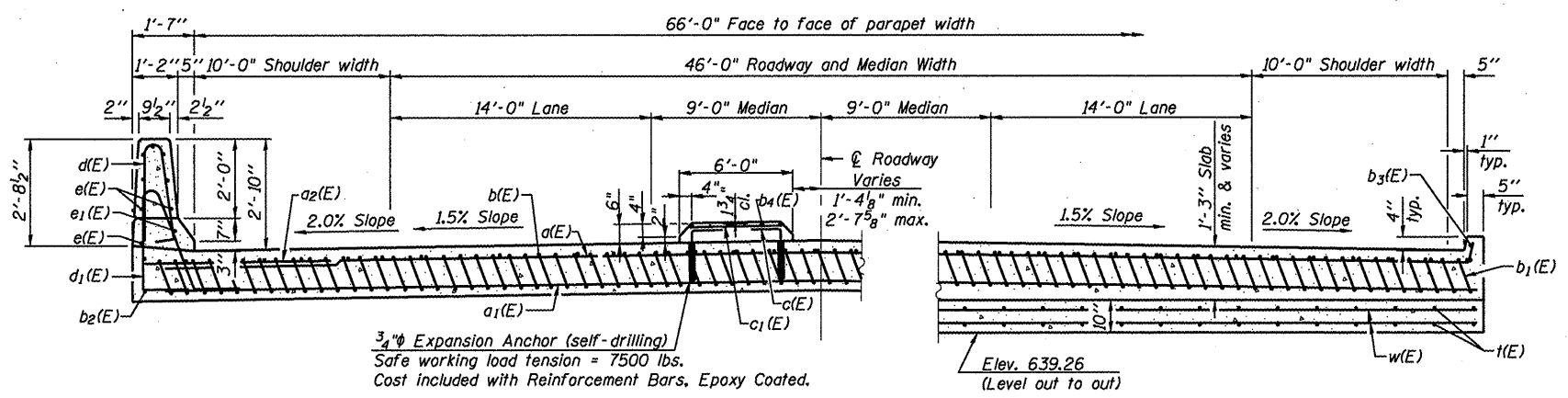
Contract No. 72667

Notes:

See sheet 10 of 20 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 9 of 20.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 17 of 20.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 1 of 20.
 For additional parapet details, see sheet 9 of 20.



SECTION C-C

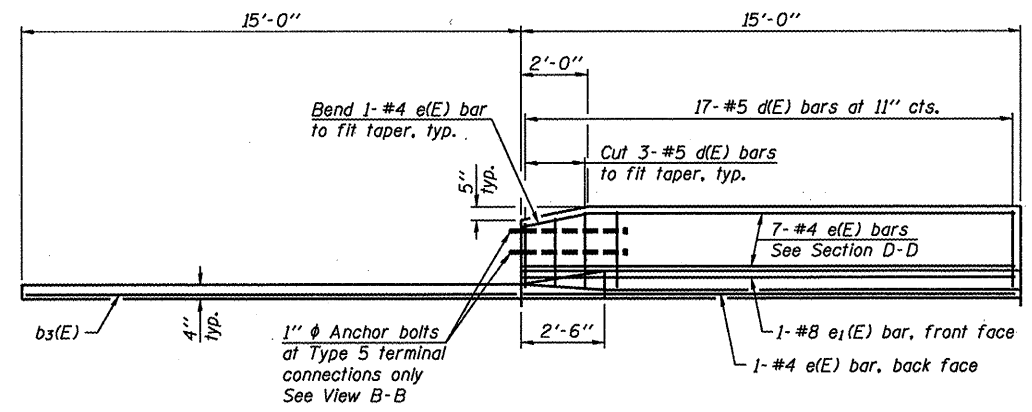


NEAR ABUTMENT

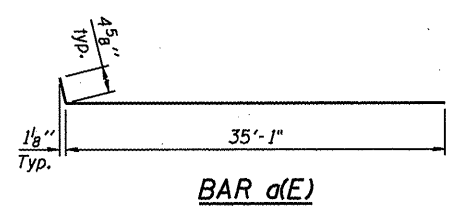
SECTION D-D

AT APPROACH FOOTING

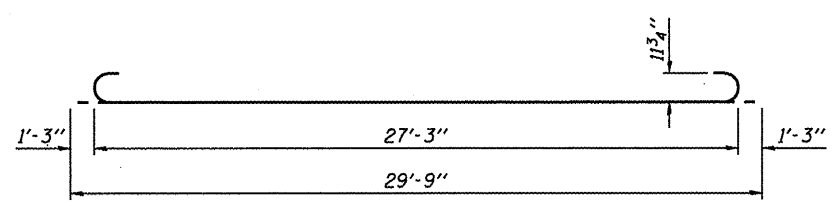
(North Approach - Looking North)
 (South Approach - Looking South)
 (See Plan for dimensions not shown)



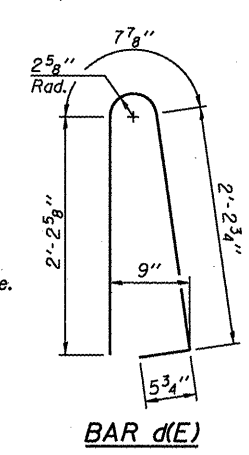
VIEW E-E



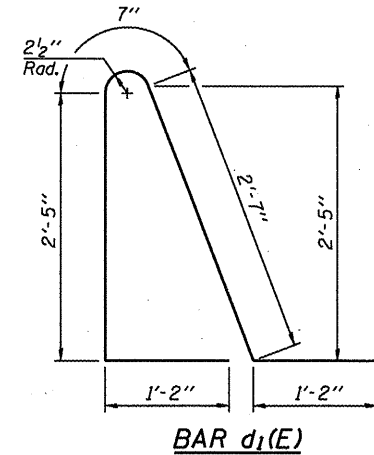
BAR d(E)



BAR b1(E)

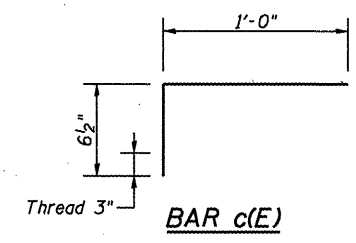


BAR d(E)

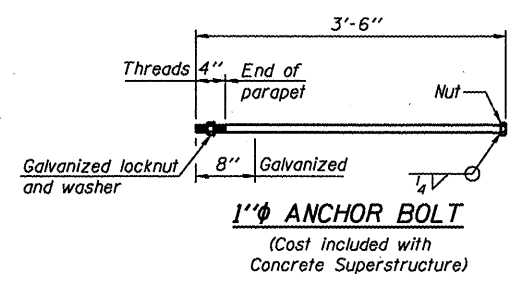


BAR d1(E)

* Tilt #9 b1(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



BAR c(E)



1" ANCHOR BOLT

(Cost included with Concrete Superstructure)

**TWO APPROACHES
 BILL OF MATERIAL**

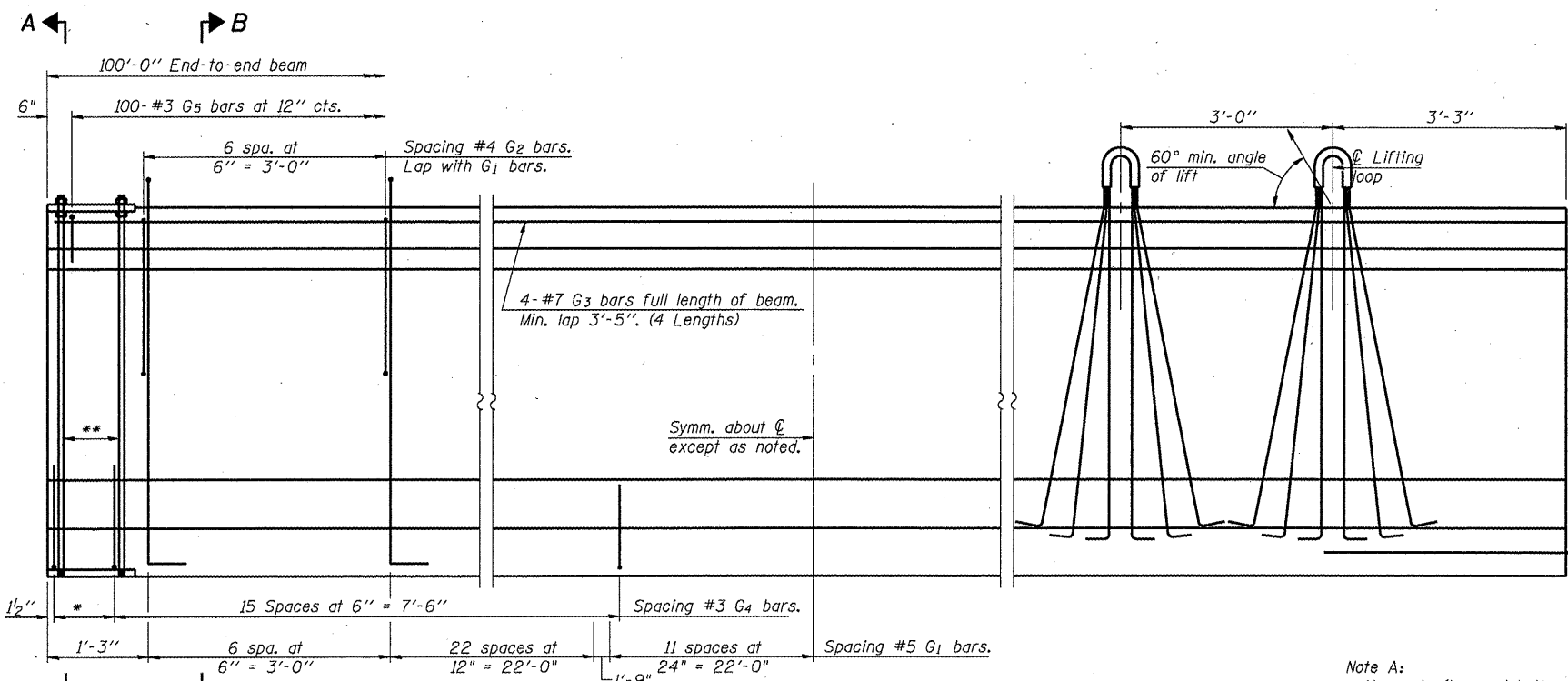
Bar	No.	Size	Length	Shape
a(E)	100	#4	35'-6"	—
a1(E)	184	#5	35'-3"	—
a2(E)	48	#6	6'-6"	—
b(E)	108	#4	29'-8"	—
b1(E)	324	#9	29'-9"	—
b2(E)	4	#4	14'-8"	—
b3(E)	4	#4	14'-7"	—
b4(E)	12	#5	29'-8"	—
c(E)	100	#5	1'-7"	—
c1(E)	50	#5	5'-2"	—
d(E)	68	#5	5'-7"	—
d1(E)	68	#5	7'-11"	—
e(E)	32	#4	14'-8"	—
e1(E)	4	#8	14'-8"	—
f(E)	272	#4	9'-8"	—
w(E)	160	#5	34'-8"	—
Concrete Superstructure		Cu. Yd.	218.4	
Concrete Structures		Cu. Yd.	42.4	
Reinforcement Bars, Epoxy Coated		Pound	54370	

(Sheet 2 of 2)

APPROACH SLAB DETAILS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	335
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	Contract No. 72667	

SHEET NO. 12
OF 20 SHEETS



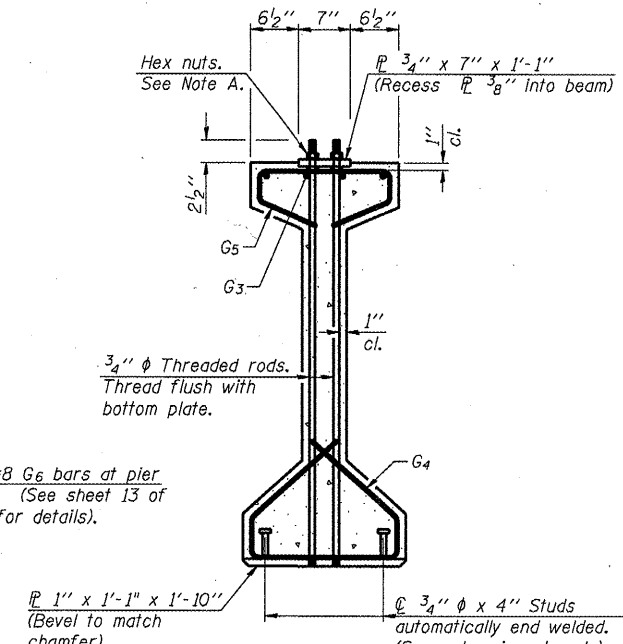
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

A ← B

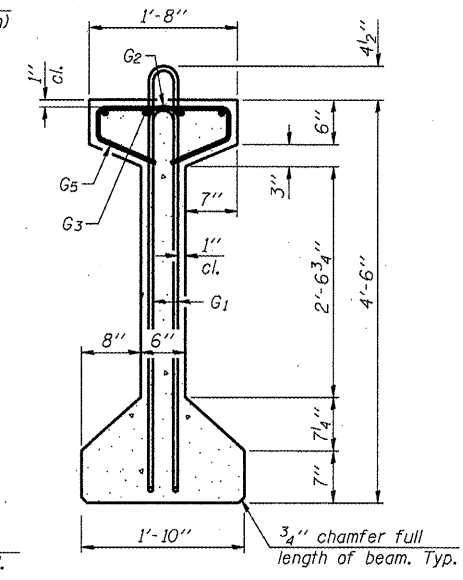
* 3 spaces at 3" = 9".

** 4-3/4" ϕ threaded dowel rods at 3" cts., each face.

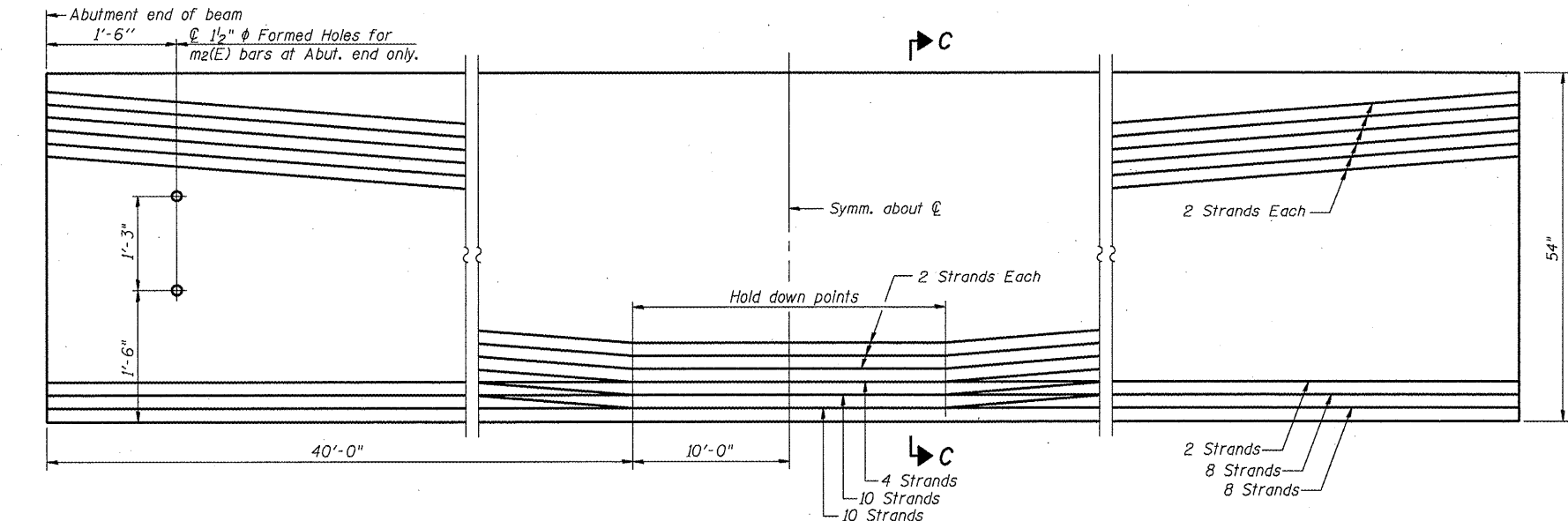
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



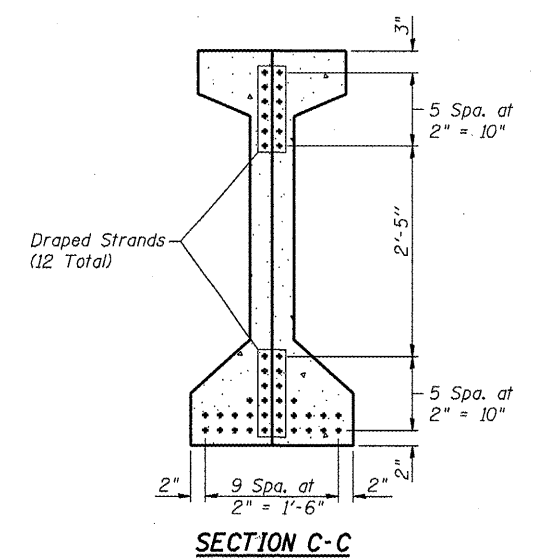
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G1	81	#5	10'-5"	nl
G2	14	#4	8'-8"	n
G3	16	#7	28'-4"	—
G4	38	#3	4'-11"	—
G5	100	#3	3'-5"	—
G6	2	#8	3'-9"	—

*** For information only

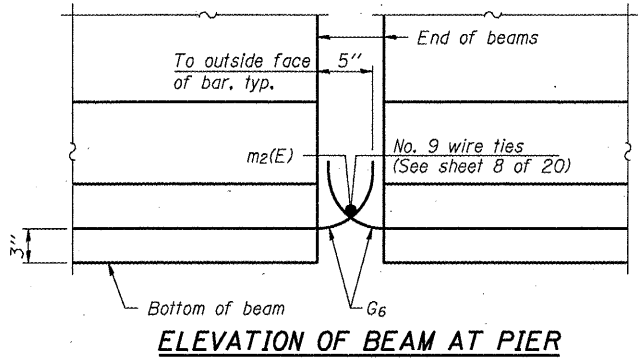
Notes:
See sheet 13 of 20 for additional details and Bill of Material.
Required release strength, f'cl, shall be 5000 psi.

54" PPC I-BEAM DETAILS
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	336
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

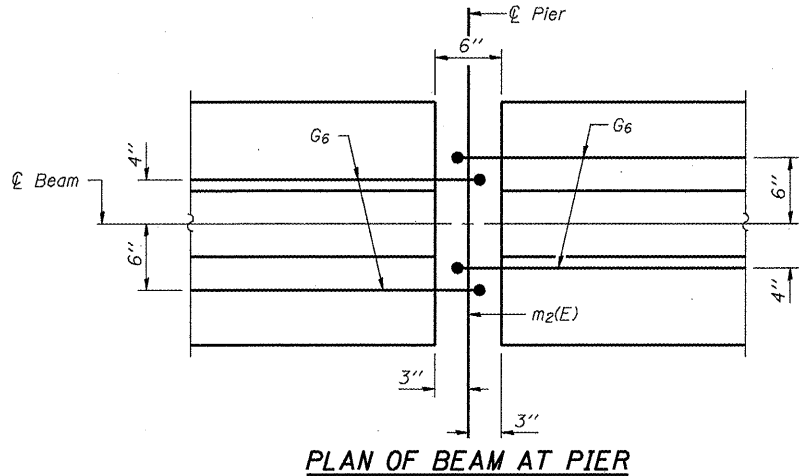
SHEET NO. 13
OF 20 SHEETS

Contract No. 72667



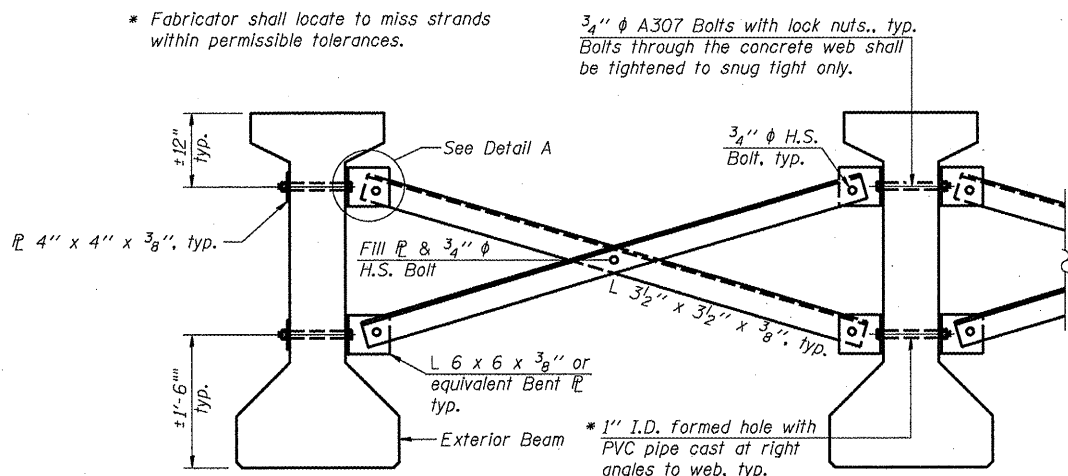
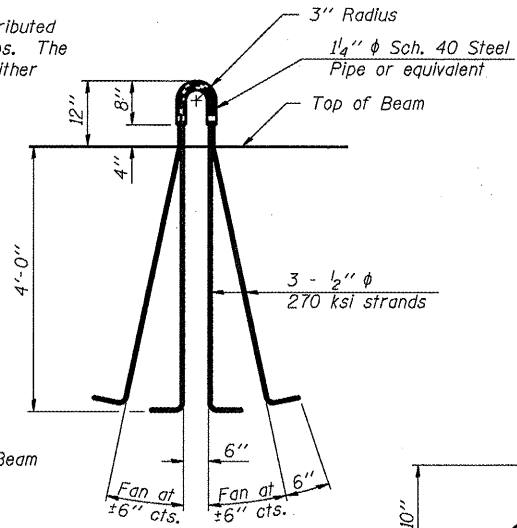
INTERIOR BEAM MOMENT TABLE		
	0.4 Sp. 1	Pier
I	(in ⁴) 213715	
I'	(in ⁴) 499417	
S _b	(in ³) 8559	
S _b '	(in ³) 12711	
S _t	(in ³) 7362	
S _t '	(in ³) 33950	
ℓ	(k/')	1.270
M _D	(k)	1556
s _D	(k/')	0.414
M _s	(k)	289
M _l	(k)	693
M _{imp}	(k)	154

- I: Non-composite moment of inertia of beam section (in⁴).
 I': Composite moment of inertia of beam section (in⁴).
 S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
 S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
 ℓ: Un-factored non-composite dead load (kips/ft.).
 M_D: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
 s_D: Un-factored long-term composite (superimposed) dead load (kips/ft.).
 M_s: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 M_l: Un-factored live load moment on the composite section (kip-ft.).
 M_{imp}: Un-factored moment due to impact on the composite section (kip-ft.).

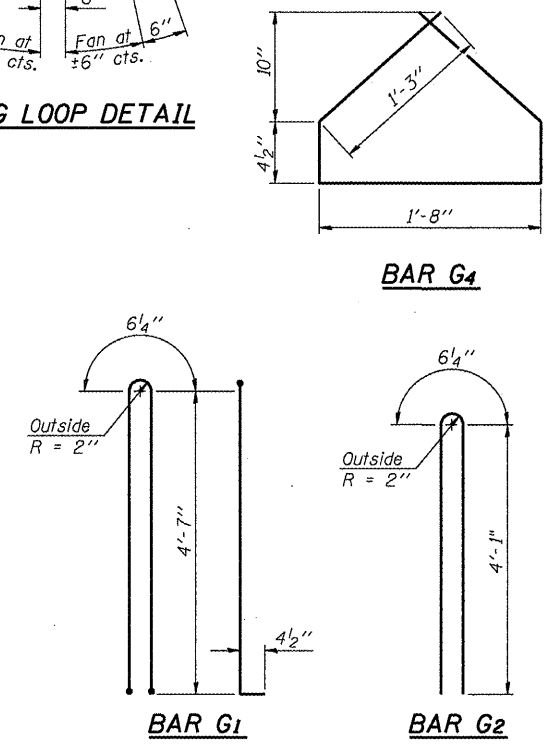
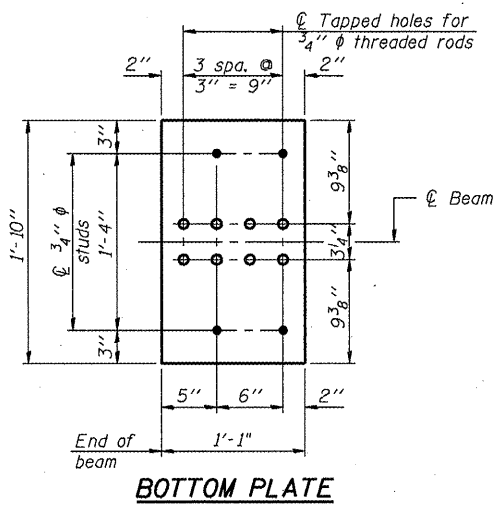
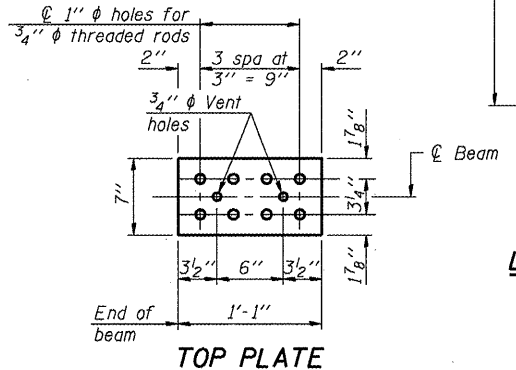
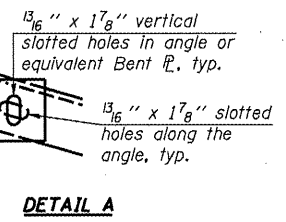


INTERIOR BEAM REACTION TABLE		
	Abut.	Pier 1 Span 1 Pier 2 Span 3
R _D	(k) 62.8	62.8
R _s	(k) 15.5	25.8
R _l	(k) 36.1	30.0
Imp.	(k) 8.1	6.8
R _{Total}	(k) 122.5	125.4

* The total R_s, R_l, and impact reactions are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios. The bearing design at a pier is based on the maximum reactions of either span.



Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be 1/16 inch diameter unless otherwise noted.
 5/16 inch x 3 inch x 3 inch plate washers are required over all slotted holes.
 All bolts shall be galvanized according to AASHTO M232.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.



NOTES

Inserts for 3/4 inch diameter threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
 The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in.
 Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.
 A minimum 2 1/2 inch diameter lifting pin shall be used to engage the lifting loops during handling.
 Cut G₆ bars when necessary to maintain 1/2 inch clearance.
 The bottom plates and studs shall be galvanized according to AASHTO M111.
 Threaded rods shall be ASTM F 1554 Grade 55.
 The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the I-beam or Bulb-T beam, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 54 inches. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

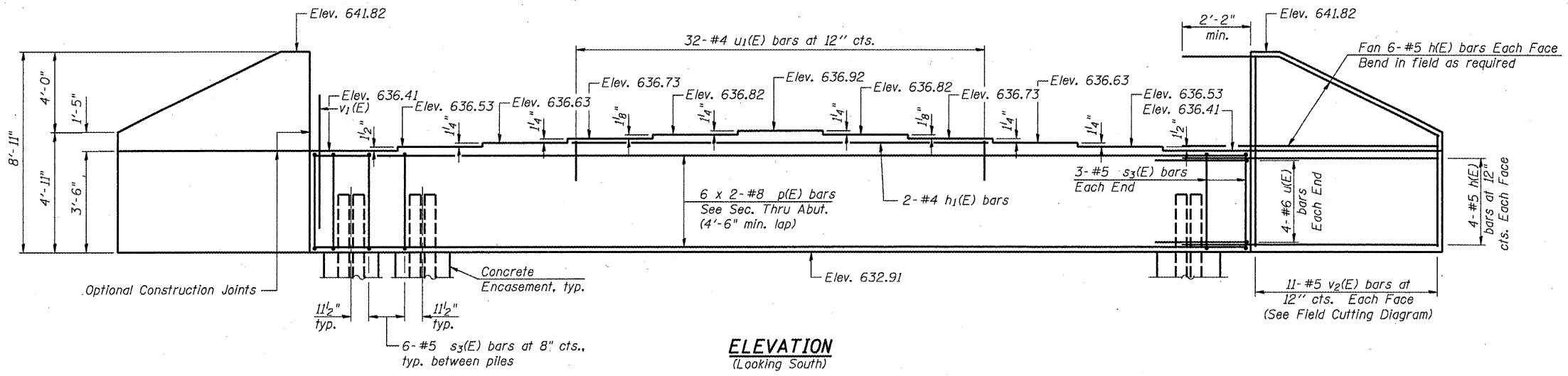
BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	2200

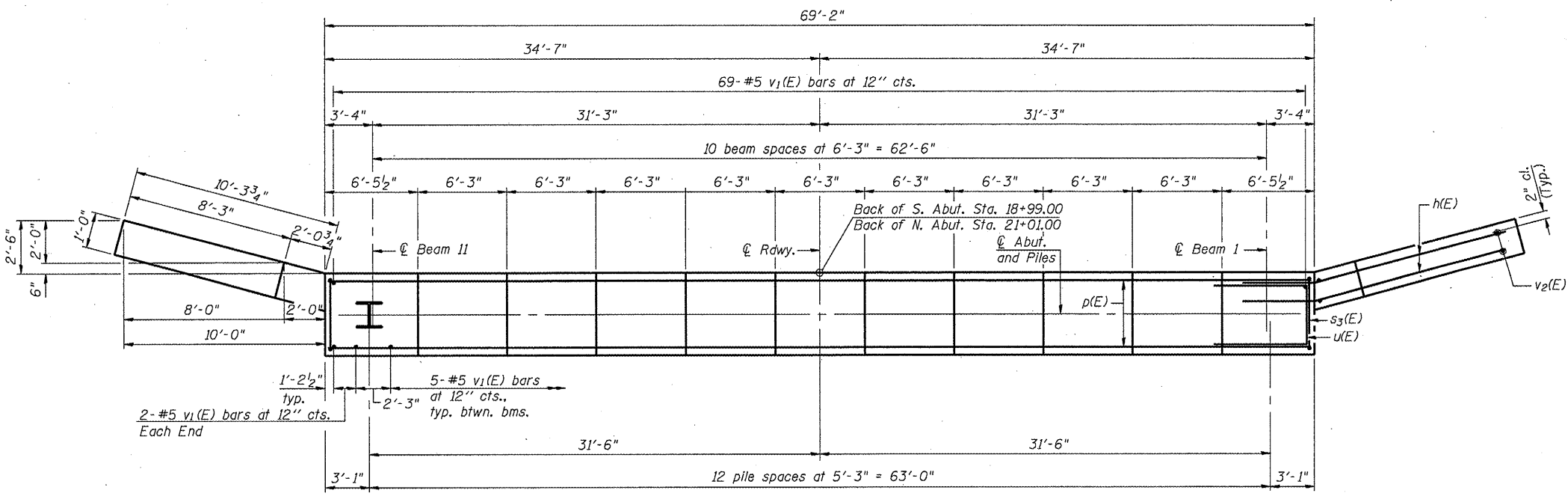
54" PPC I-BEAM DETAILS
 C.H. 7 (CONCORD RD.) (F.A.S. 579)
 OVER U.S. 67/IL 104 (F.A.P. 310)
 MORGAN COUNTY
 STA. 807+81.68 - SECTION 69-3(3HB)
 S.N. 069-0513

Notes: Pour steps monolithically with cap.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	337
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	Contract No. 72667	



ELEVATION
(Looking South)

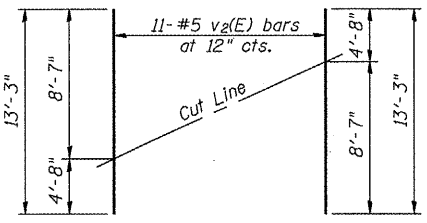


PLAN
(S. Abut. shown, N. Abut. is mirror image)

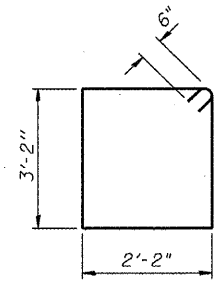
SOUTH ABUTMENT PILE DATA
 Type: HP 14x73
 Nominal Required Bearing: 578 kips
 Allowable Resistance Available: 141 kips
 Est. Length: 102 ft.
 No. Production Piles: 12
 No. Test Piles: 1

NORTH ABUTMENT PILE DATA
 Type: HP 14x73
 Nominal Required Bearing: 578 kips
 Allowable Resistance Available: 129 kips
 Est. Length: 102 ft.
 No. Production Piles: 12
 No. Test Piles: 1

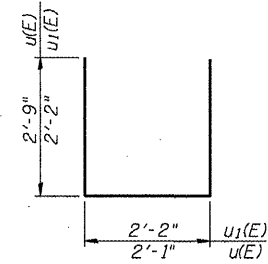
Note: Piles shall be driven through 18" diameter precored holes extending to elevation 612 ft. according to Article 512.09(c) of the Standard Specifications. Cost Included in Driving Piles.



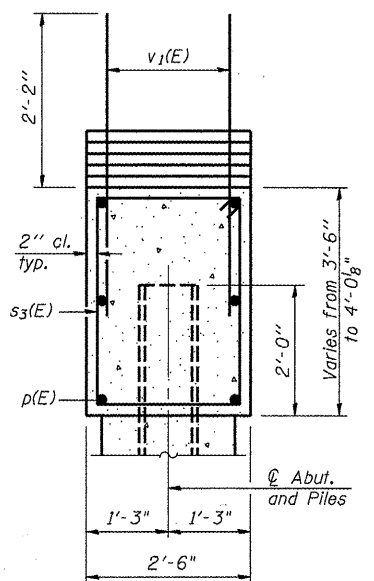
FIELD CUTTING DIAGRAM
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s3(E)



BAR u1(E) & u2(E)



SEC. THRU ABUT.

**BILL OF MATERIAL
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
h(E)	80	#5	13'-3"	—
h1(E)	4	#4	30'-11"	—
p(E)	24	#8	36'-8"	—
s3(E)	156	#5	11'-8"	U
u1(E)	16	#6	7'-7"	U
u2(E)	64	#4	6'-6"	U
v1(E)	246	#5	4'-4"	—
v2(E)	44	#5	13'-3"	—
Structure Excavation	Cu. Yd.	83.4		
Concrete Structures	Cu. Yd.	59.2		
Reinforcement Bars, Epoxy Coated	Pound	7620		
Furnishing Steel	Foot	2448		
Piles, HP 14x73	Foot	2448		
Driving Piles	Foot	2448		
Test Pile, HP 14x73	Each	2		
Concrete Encasement	Cu. Yd.	14.2		

For details of Bar Splicers, see sheet 17 of 20.
 For details of piles and Concrete Encasement, see sheet 16 of 20.

**SOUTH AND NORTH ABUTMENTS
 C.H. 7 (CONCORD RD.) (F.A.S. 579)
 OVER U.S. 67/IL 104 (F.A.P. 310)
 MORGAN COUNTY
 STA. 807+81.68 - SECTION 69-3(3HB)
 S.N. 069-0513**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	338
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

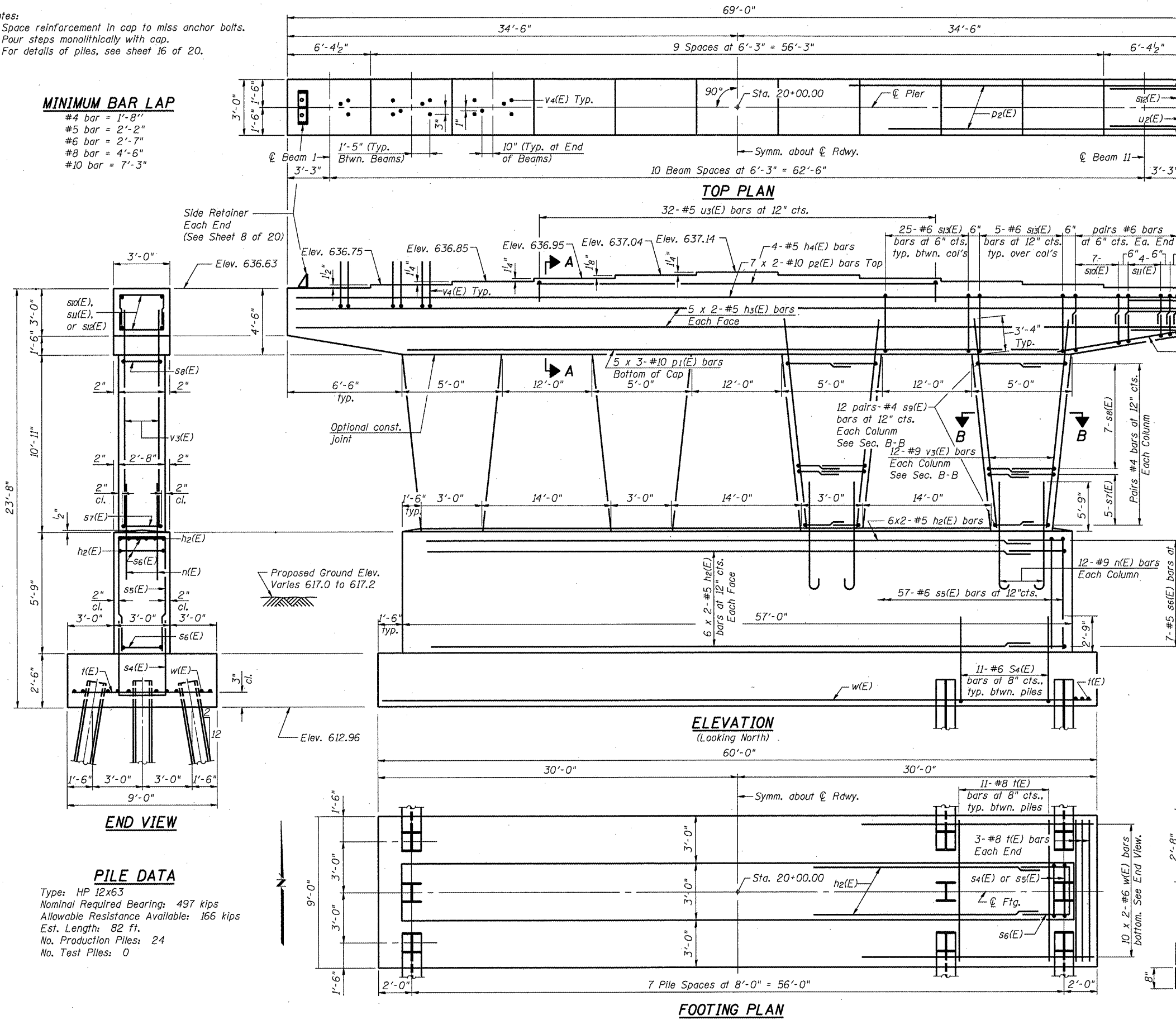
SHEET NO. 15
OF 20 SHEETS

Contract No. 72667

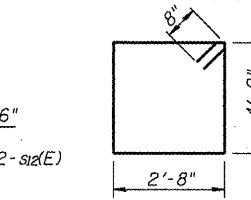
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 16 of 20.

MINIMUM BAR LAP

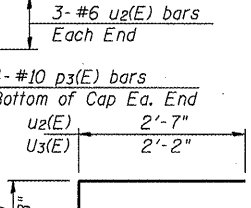
- #4 bar = 1'-8"
- #5 bar = 2'-2"
- #6 bar = 2'-7"
- #8 bar = 4'-6"
- #10 bar = 7'-3"



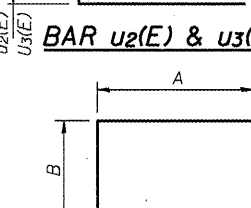
BAR n(E) & v4(E)



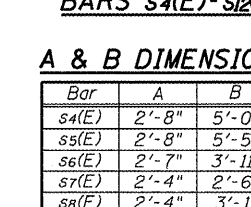
BAR s1x(E)



BAR u2(E) & u3(E)

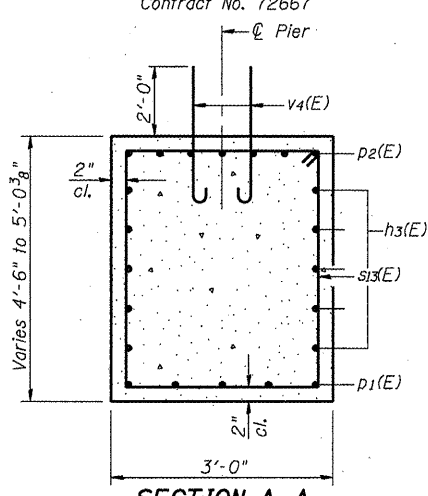


BARS s4(E)-s12(E)



A & B DIMENSIONS

Bar	A	B
s4(E)	2'-8"	5'-0"
s5(E)	2'-8"	5'-5"
s6(E)	2'-7"	3'-11"
s7(E)	2'-4"	2'-6"
s8(E)	2'-4"	3'-1"
s9(E)	2'-8"	3'-5"
s10(E)	2'-8"	3'-0"
s11(E)	2'-8"	2'-8"



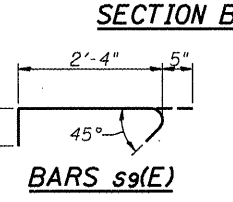
SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	36	#5	27'-8"	▬
h3(E)	20	#5	35'-5"	▬
h4(E)	4	#5	30'-11"	▬
n(E)	48	#9	9'-0"	U
p1(E)	15	#10	23'-6"	▬
p2(E)	14	#10	38'-0"	▬
p3(E)	8	#10	6'-6"	▬
s4(E)	77	#6	12'-8"	▬
s5(E)	57	#6	13'-6"	▬
s6(E)	14	#5	10'-5"	▬
s7(E)	40	#4	7'-4"	▬
s8(E)	56	#4	8'-6"	▬
s9(E)	96	#4	3'-5"	▬
s10(E)	28	#6	9'-6"	▬
s11(E)	16	#6	8'-8"	▬
s12(E)	8	#6	8'-0"	▬
s1x(E)	95	#6	15'-0"	▬
v(E)	83	#8	8'-8"	▬
u2(E)	6	#6	7'-9"	▬
u3(E)	32	#5	7'-0"	▬
v3(E)	48	#9	14'-2"	▬
v4(E)	60	#8	4'-2"	▬
w(E)	20	#6	31'-2"	▬
Structure Excavation		Cu. Yd.	130.7	
Concrete Structures		Cu. Yd.	139.0	
Reinforcement Bars, Epoxy Coated		Pound	19900	
Furnishing Steel Piles, HP 12x63		Foot	1968	
Driving Piles		Foot	1968	

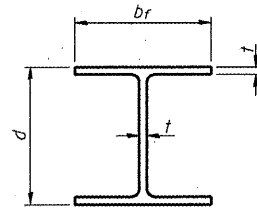
Bars indicated thus 4 x 2-#5 etc. indicates 4 lines of bars with 2 lengths per line.
Reinforcement bars designated (E) shall be epoxy coated.

PIER
C.H. 7 (CONCORD RD.) (F.A.S. 579)
OVER U.S. 67/IL 104 (F.A.P. 310)
MORGAN COUNTY
STA. 807+81.68 - SECTION 69-3(3HB)
S.N. 069-0513



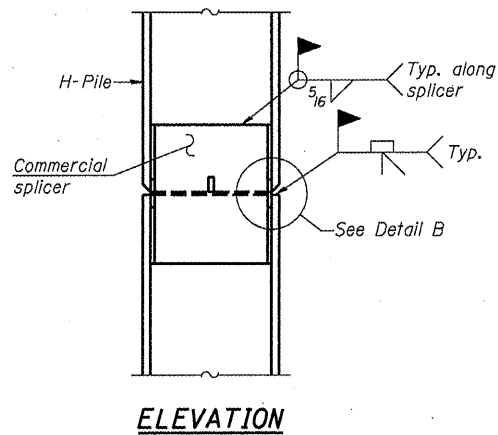
SECTION B-B

BARS s9(E)

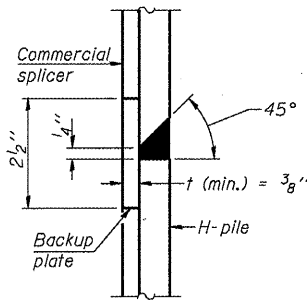


STEEL PILE TABLE

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

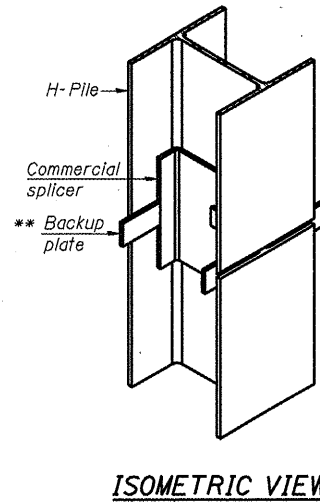


ELEVATION

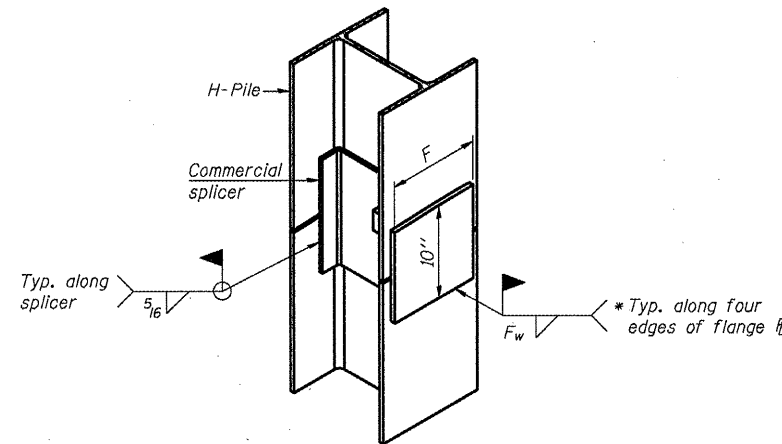


DETAIL "B"

WELDED COMMERCIAL SPLICE

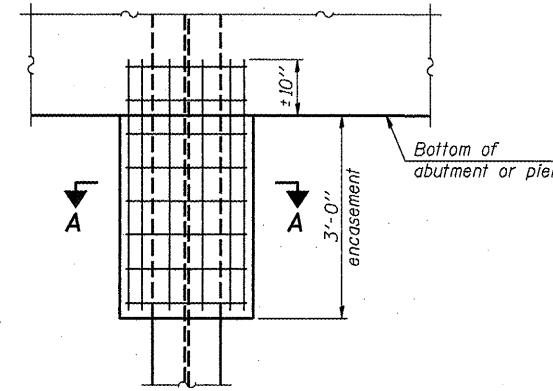


ISOMETRIC VIEW



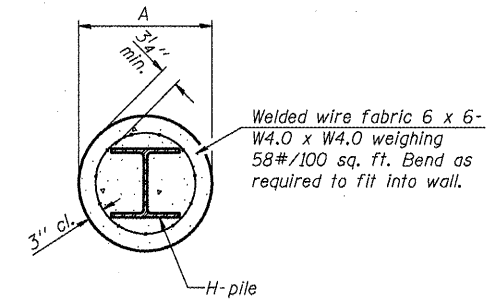
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds $\frac{1}{4}$ " from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer ($\frac{5}{16}$ " min.).



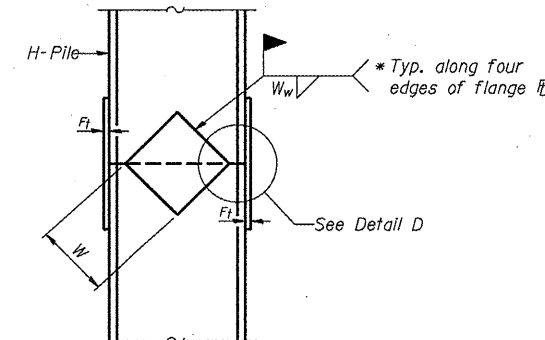
ELEVATION

PILE ENCASEMENT

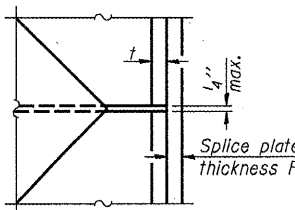


SECTION A-A

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

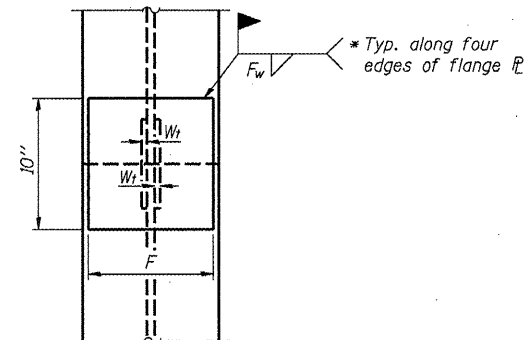


ELEVATION



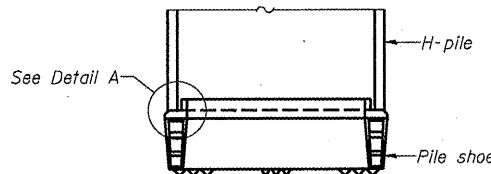
DETAIL D

WELDED PLATE FIELD SPLICE



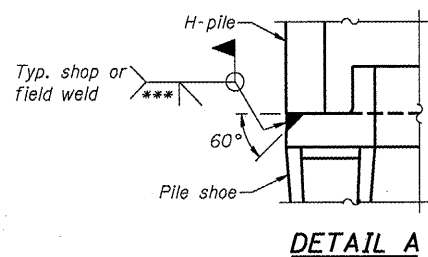
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 $\frac{1}{2}$ "	1"	7 $\frac{8}{16}$ "	7 $\frac{3}{4}$ "	5 $\frac{8}{16}$ "	1 $\frac{1}{2}$ "
x102	12 $\frac{1}{2}$ "	7 $\frac{8}{16}$ "	3 $\frac{4}{16}$ "	7 $\frac{3}{4}$ "	5 $\frac{8}{16}$ "	1 $\frac{1}{2}$ "
x89	12 $\frac{1}{2}$ "	3 $\frac{4}{16}$ "	1 $\frac{16}{16}$ "	7 $\frac{3}{4}$ "	5 $\frac{8}{16}$ "	1 $\frac{1}{2}$ "
x73	12 $\frac{1}{2}$ "	5 $\frac{8}{16}$ "	9 $\frac{16}{16}$ "	7 $\frac{3}{4}$ "	5 $\frac{8}{16}$ "	1 $\frac{1}{2}$ "
HP 12x84	10"	7 $\frac{8}{16}$ "	1 $\frac{16}{16}$ "	6 $\frac{1}{2}$ "	5 $\frac{8}{16}$ "	1 $\frac{1}{2}$ "
x74	10"	7 $\frac{8}{16}$ "	1 $\frac{16}{16}$ "	6 $\frac{1}{2}$ "	5 $\frac{8}{16}$ "	1 $\frac{1}{2}$ "
x63	10"	5 $\frac{8}{16}$ "	1 $\frac{2}{16}$ "	6 $\frac{1}{2}$ "	1 $\frac{2}{16}$ "	3 $\frac{8}{16}$ "
x53	10"	5 $\frac{8}{16}$ "	1 $\frac{2}{16}$ "	6 $\frac{1}{2}$ "	1 $\frac{2}{16}$ "	3 $\frac{8}{16}$ "
HP 10x57	8"	3 $\frac{4}{16}$ "	9 $\frac{16}{16}$ "	5 $\frac{1}{4}$ "	1 $\frac{2}{16}$ "	3 $\frac{8}{16}$ "
x42	8"	5 $\frac{8}{16}$ "	9 $\frac{16}{16}$ "	5 $\frac{1}{4}$ "	1 $\frac{2}{16}$ "	3 $\frac{8}{16}$ "
HP 8x36	7"	5 $\frac{8}{16}$ "	7 $\frac{16}{16}$ "	4 $\frac{1}{4}$ "	1 $\frac{2}{16}$ "	3 $\frac{8}{16}$ "



ELEVATION

H-PILE SHOE ATTACHMENT



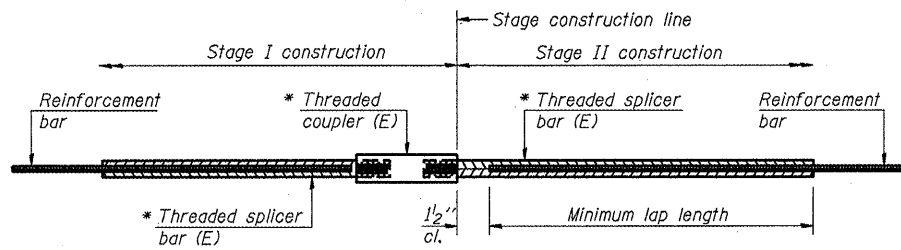
DETAIL A

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 579	69-3(3HB)	MORGAN	793	340
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 17
OF 20 SHEETS

Contract No. 72667



STANDARD BAR SPLICER ASSEMBLY

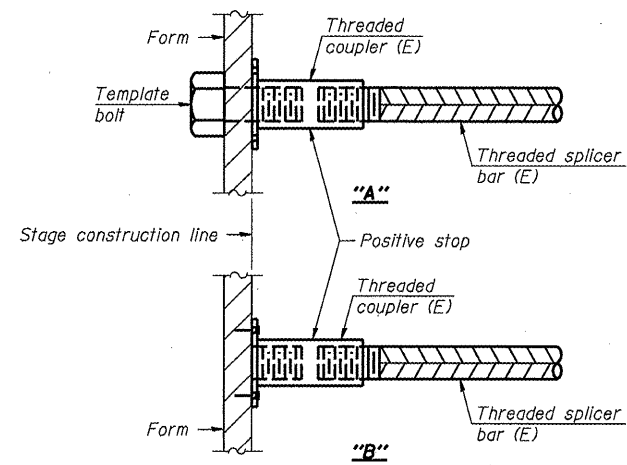
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

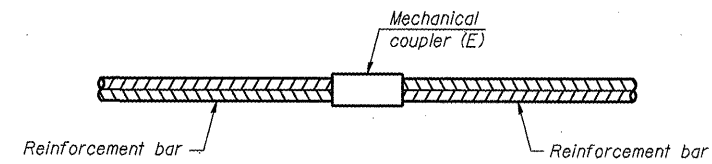
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



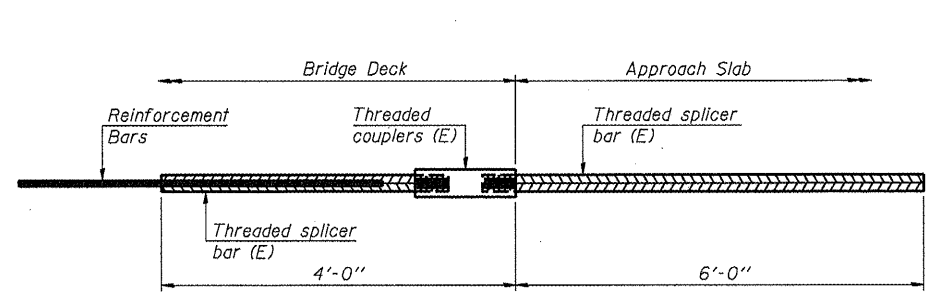
INSTALLATION AND SETTING METHODS

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



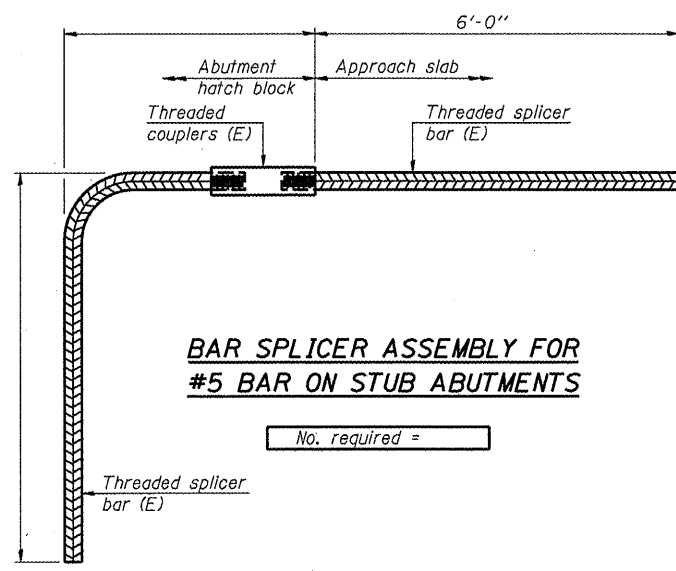
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 138




BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES


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

BAR SPLICER ASSEMBLY DETAILS
 C.H. 7 (CONCORD RD.) (F.A.S. 579)
 OVER U.S. 67/IL 104 (F.A.P. 310)
 MORGAN COUNTY
 STA. 807+81.68 - SECTION 69-3(3HB)
 S.N. 069-0513


Illinois Department of Transportation
 SOIL BORING LOG Page 1 of 2
 Date 10/25/04
 ROUTE Concord Road DESCRIPTION Concord Road over US 67 LOGGED BY M. Tappan
 SECTION 69-3 LOCATION NE 1/4, SEC. 12, TWP. 15 N, R1G. 11 W, 3 PM
 COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 069-0513 Station 20+00		SURFACE WATER Elev. N/A ft		DELT		COLS		UCS		M	
BORING NO. CA6 S Abut Station 19+00 Offset 25.08 RI Ground Surface Elev. 615.1 ft		Groundwater Elev.: 1st First Encounter 601.1 ft 2nd Upon Completion Phugged ft		TWS		HQS					
(ft)	(%)	(ft)	(%)	(ft)	(%)	(ft)	(%)	(ft)	(%)	(ft)	(%)
V Dark Grey to Brown and Grey Moist SILTY CLAY Refer Classification CA-9-1											
612.10											
Tan and Light Grey V. Moist SILT Refer Classification CA-9-2											
0 0.4 28											
1 B											
2 B											
0 0.3 27											
2 B											
587.60											
Grey and Brown Moist CLAY LOAM (Til) Refer Classification CA-10-1											
0 1.2 22											
1 B											
12 5.2 10											
18 S-11											
604.10											
Dark Greyish Brown Moist Slightly Organic SILTY CLAY											
1 2 0.8 28											
3 S-10											
601.60											
Grey Moist SILT Refer Classification CA-9-4 Free Water											
1 2 1.1 26											
2 B											
0 0.3 27											
1 B											
597.10											
Grey V. Moist SILTY CLAY LOAM Refer Classification CA-9-5											
0 1.0 27											
1 B											
2 B											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 The SPT (ft value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)


Illinois Department of Transportation
 SOIL BORING LOG Page 2 of 2
 Date 10/25/04
 ROUTE Concord Road DESCRIPTION Concord Road over US 67 LOGGED BY M. Tappan
 SECTION 69-3 LOCATION NE 1/4, SEC. 12, TWP. 15 N, R1G. 11 W, 3 PM
 COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 069-0513 Station 20+00		SURFACE WATER Elev. N/A ft		DELT		COLS		UCS		M	
BORING NO. CA6 S Abut Station 19+00 Offset 25.08 RI Ground Surface Elev. 615.1 ft		Groundwater Elev.: 1st First Encounter 601.1 ft 2nd Upon Completion Phugged ft		TWS		HQS					
(ft)	(%)	(ft)	(%)	(ft)	(%)	(ft)	(%)	(ft)	(%)	(ft)	(%)
Olive Brown and Grey Moist CLAY (Til) (continued)											
572.60											
Grey Moist SILT (Til)											
0 1.2 22											
1 B											
4 4.0 16											
17 S-10											
22 11 8 15											
Grey Moist SILT (Til)											
10 12 5.2 10											
18 S-11											
604.10											
w/ Sandy Shale Inclusions											
5 17 5.3 17											
36 S-12											
Boring Completed to 65 Yards Bearing											
592.60											
Olive Brown and Grey Moist CLAY (Til)											
4 11 3.1 22											
12 B											
0 3.4 20											
7 B											
9 9											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
 The SPT (ft value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

BORING LOGS
 C.H. 7 (CONCORD RD.) (F.A.S. 579)
 OVER U.S. 67/IL 104 (F.A.P. 310)
 MORGAN COUNTY
 STA. 807+81.68 - SECTION 69-3(3HB)
 S.N. 069-0513

ROUTE Concord Road DESCRIPTION Concord Road over US 67 LOGGED BY M. Tappan SECTION 69-3 LOCATION NE 1/4, SEC. 12, TWP. 15 N, RNG. 11 W, 3 PM COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

Table with columns for Depth (ft), Blows (10', 6", 15'), Moisture (%), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., and Groundwater Elev.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

ROUTE Concord Road DESCRIPTION Concord Road over US 67 LOGGED BY M. Tappan SECTION 69-3 LOCATION NE 1/4, SEC. 12, TWP. 15 N, RNG. 11 W, 3 PM COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

Table with columns for Depth (ft), Blows (10', 6", 15'), Moisture (%), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., and Groundwater Elev.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

ROUTE Concord Road DESCRIPTION Concord Road over US 67 LOGGED BY M. Tappan SECTION 69-3 LOCATION NE 1/4, SEC. 12, TWP. 15 N, RNG. 11 W, 3 PM COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

Table with columns for Depth (ft), Blows (10', 6", 15'), Moisture (%), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., and Groundwater Elev.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

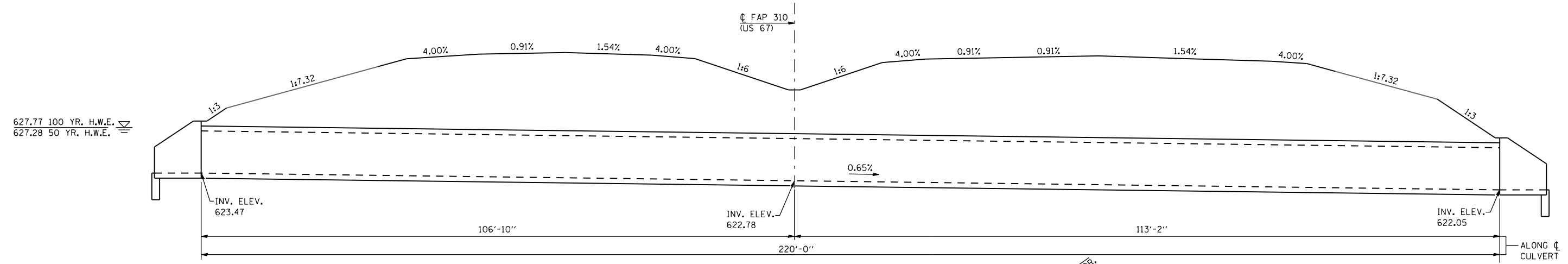
BORING LOGS C.H. 7 (CONCORD RD.) (F.A.S. 579) OVER U.S. 67/IL 104 (F.A.P. 310) MORGAN COUNTY STA. 807+81.68 - SECTION 69-3(3HB) S.N. 069-0513

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	344
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

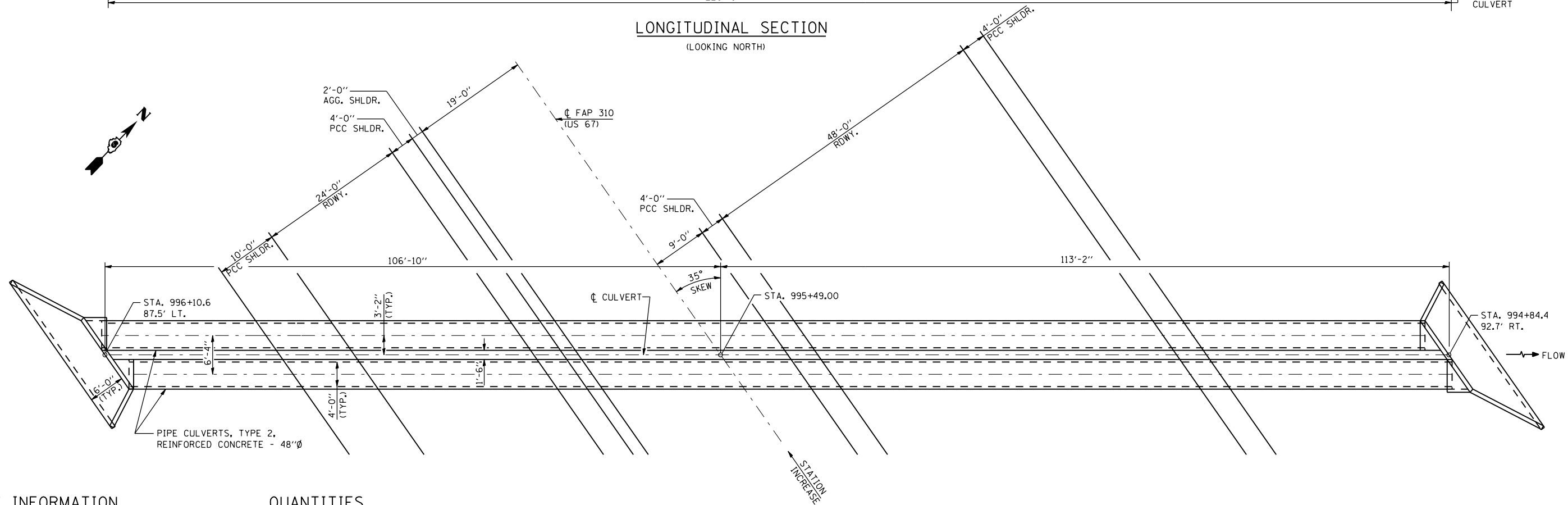
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Mar-30-2011 09:40:21AM

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LONGITUDINAL SECTION
(LOOKING NORTH)



PLAN

WATERWAY INFORMATION

STATION 995+49
 DRAINAGE AREA = 158.0 ACRES (0.247 SQ. MI.)
 PROPOSED OPENING = 25.1 SQ. FT.
 $Q_{(50)} = 136$ CFS
 $Q_{(100)} = 161$ CFS
 U.S.F.L. STA. 996+10.6, 87.5' LT., ELEV. 623.47
 D.S.F.L. STA. 994+84.4, 92.7' RT., ELEV. 622.05

QUANTITIES

ITEM	UNIT	QTY.
PIPE CULVERTS, TYPE 2, RCCP 48"	L.F.	440
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS	CU. YD.	19.1
REINFORCEMENT BARS	POUND	1250

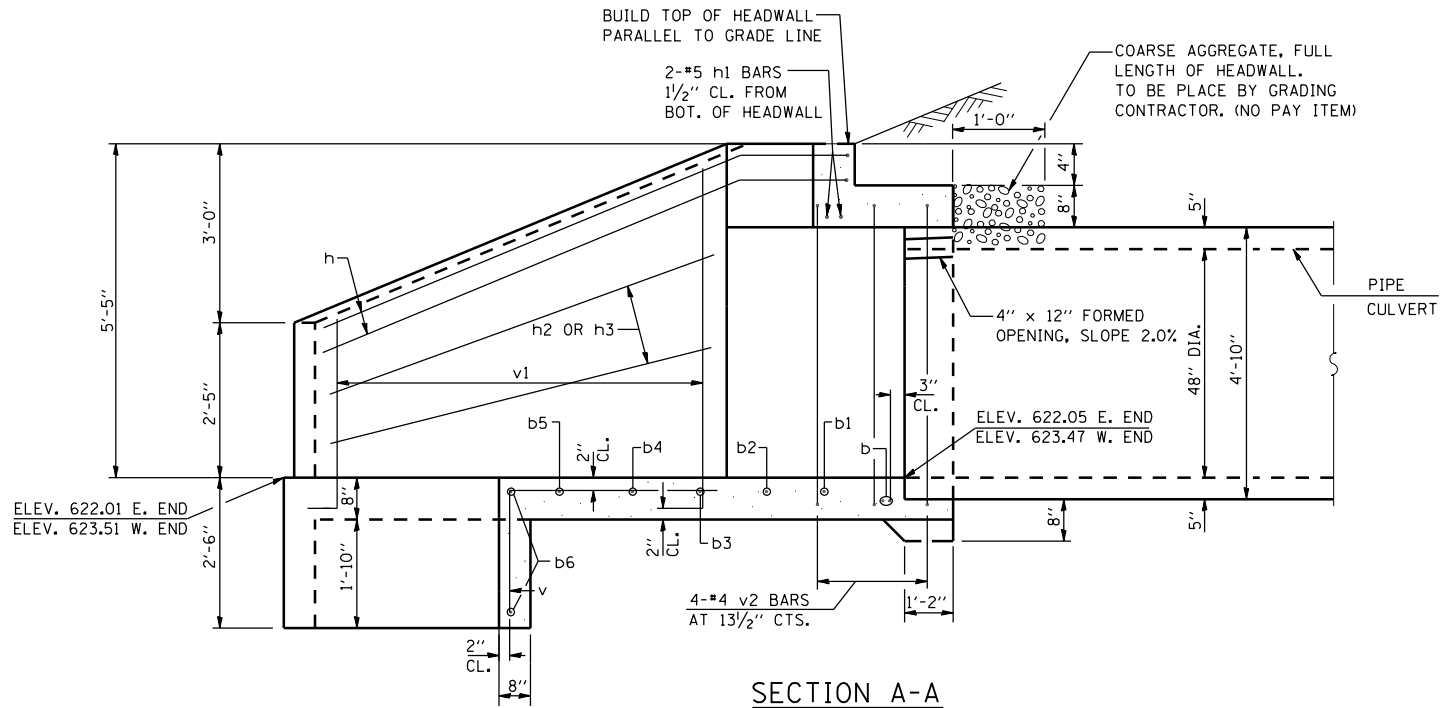
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
 STATION 995+49.00
 FAP 310 (US 67/IL 104)
 DATE 10/07
 DRAWN BY ADB
 CHECKED BY MTH

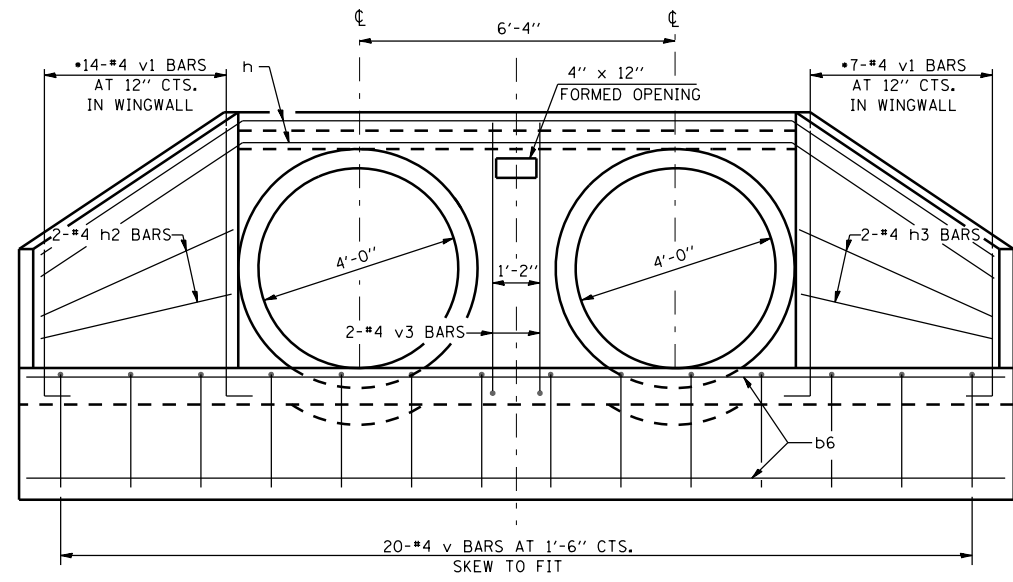
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	345
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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Mar-30-2011 09:40:22AM

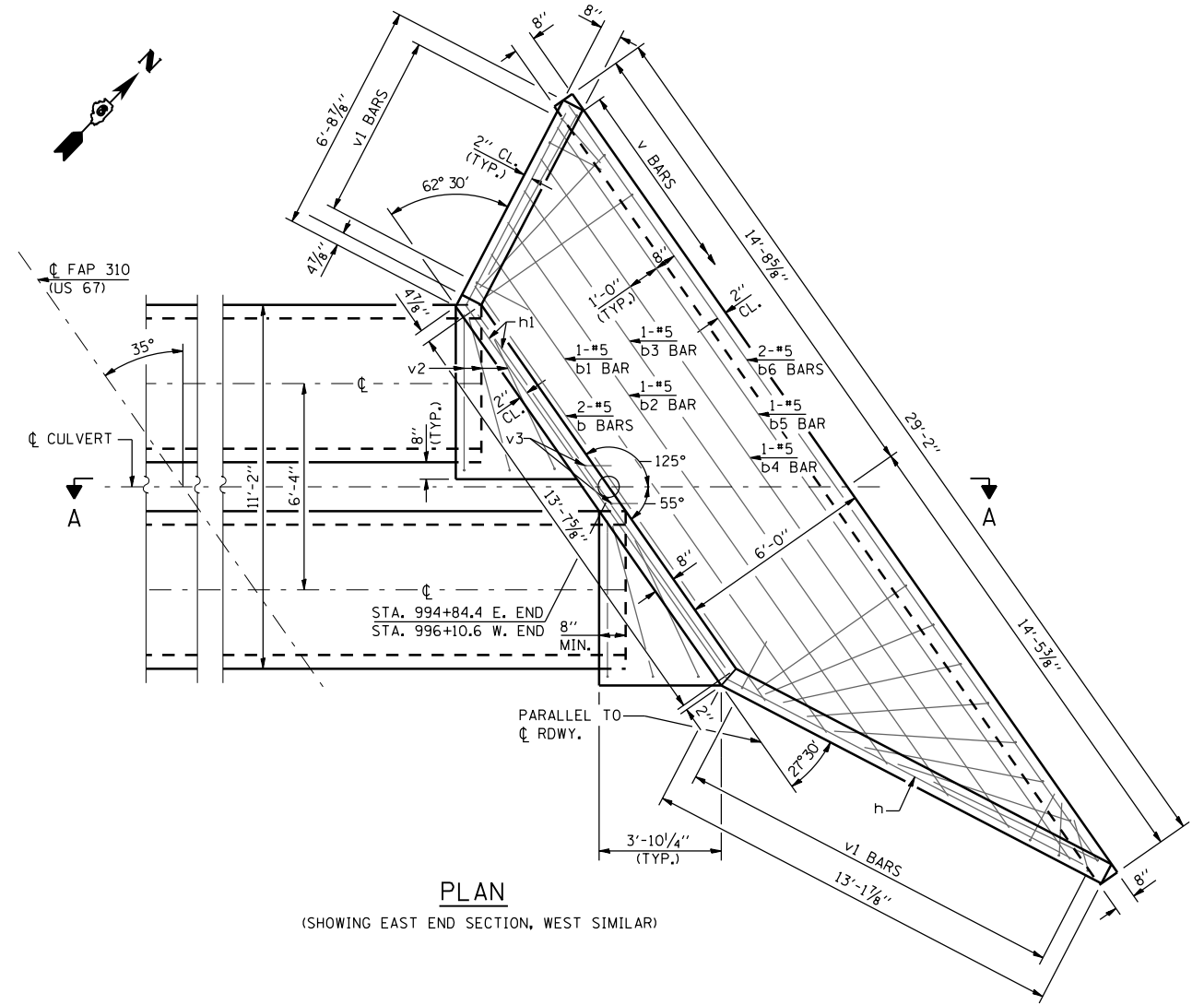


SECTION A-A

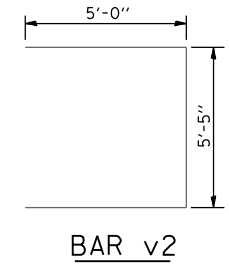


END ELEVATION

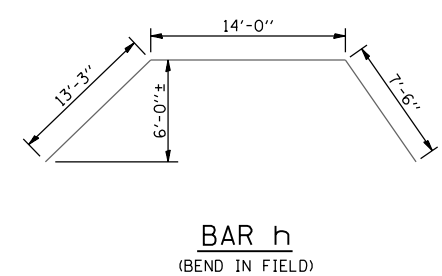
• SEE FIELD CUTTING DIAGRAM



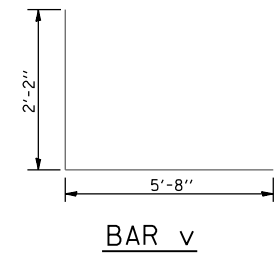
PLAN
(SHOWING EAST END SECTION, WEST SIMILAR)



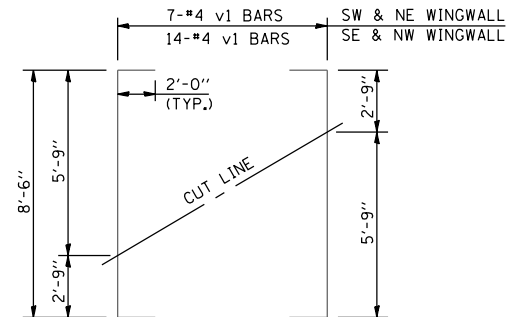
BAR v2



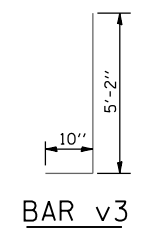
BAR h
(BEND IN FIELD)



BAR v



FIELD CUTTING DIAGRAM
ORDER v1 BARS FULL LENGTH



BAR v3

•• BILL OF MATERIAL
(2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
b	4	#5	15'-8"	U
b1	2	#5	18'-1"	—
b2	2	#5	20'-6"	—
b3	2	#5	23'-0"	—
b4	2	#5	25'-5"	—
b5	2	#5	27'-10"	—
b6	4	#5	28'-10"	—
h	4	#5	34'-9"	∩
h1	4	#5	13'-7"	—
h2	4	#4	12'-10"	—
h3	4	#4	6'-11"	—
v	40	#4	7'-10"	U
v1	21	#4	12'-6"	∩
v2	16	#4	15'-5"	U
v3	4	#4	6'-0"	U

•• FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT END SECTIONS
STATION 995+49.00
FAP 310 (US 67/IL 104)
DRAWN BY ADB
CHECKED BY MTH
DATE 10/07

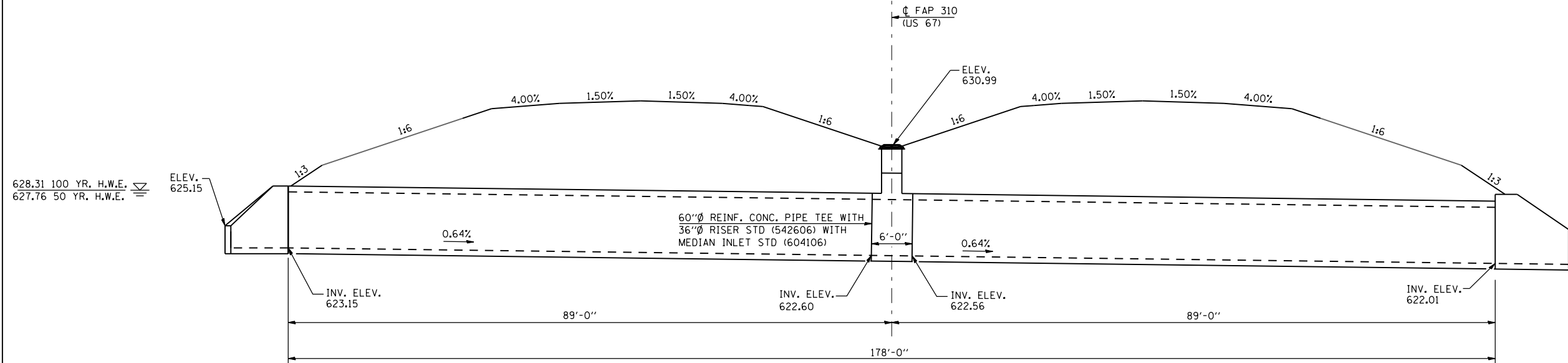
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	346
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

9:40:27 AM

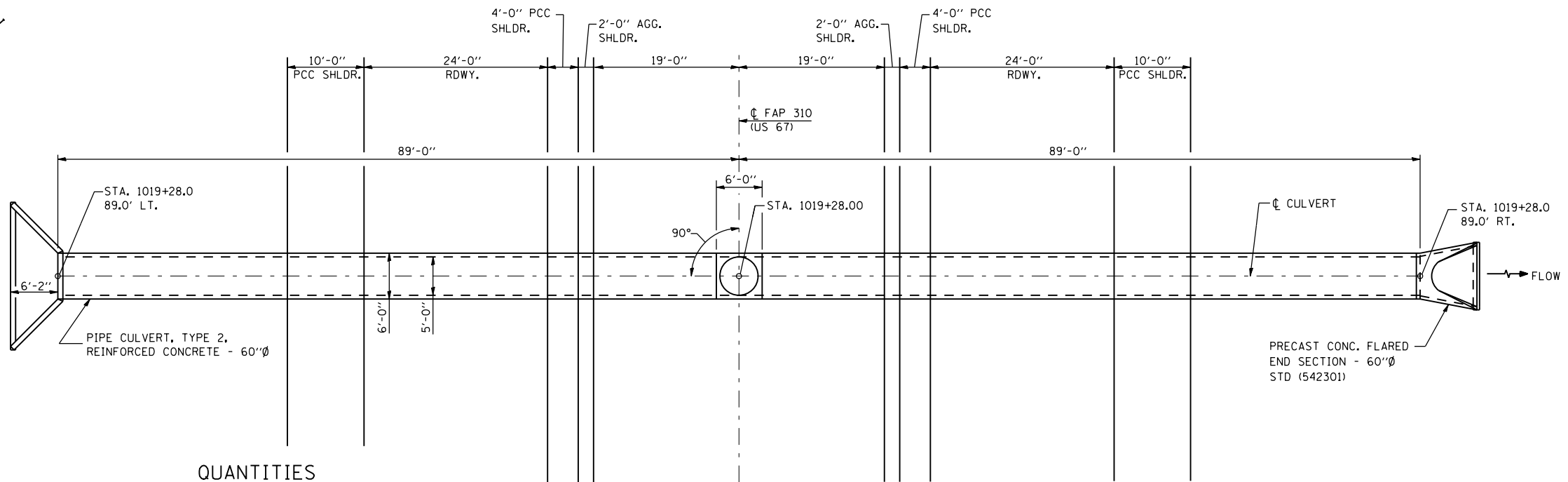
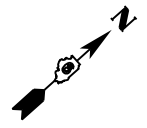
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LONGITUDINAL SECTION
(LOOKING NORTH)

NOTES:
SEE STANDARD 604106, 542606 AND 542301



PLAN

QUANTITIES

ITEM	UNIT	QTY.
PIPE CULVERTS, TYPE 2, RCCP 60"	L.F.	172
REINFORCED CONCRETE PIPE TEE, 60"Ø WITH 36"Ø RISER WITH MEDIAN INLET	EA.	1
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 60"Ø	EA.	1
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS	CU. YD.	5.1
REINFORCEMENT BARS	POUND	380

WATERWAY INFORMATION

STATION 1019+28
 DRAINAGE AREA = 61.6 ACRES (0.096 SQ. MI.)
 PROPOSED OPENING = 19.6 SQ. FT.
 Q₍₅₀₎ = 112 CFS
 Q₍₁₀₀₎ = 132 CFS
 U.S.F.L. STA. 1019+28.0, 89.0' LT., ELEV. 623.15
 D.S.F.L. STA. 1019+28.0, 89.0' RT., ELEV. 622.01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
 STATION 1019+28.00
 FAP 310 (US 67/IL 104)

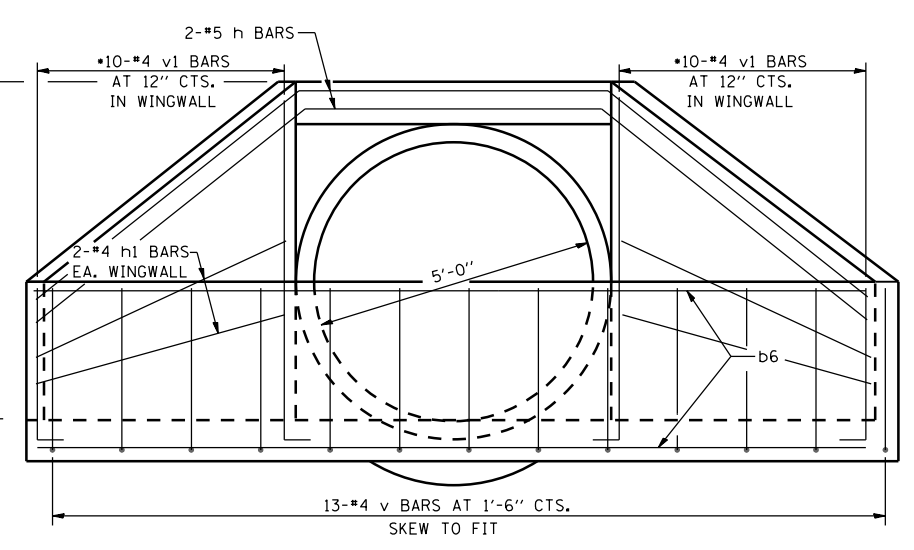
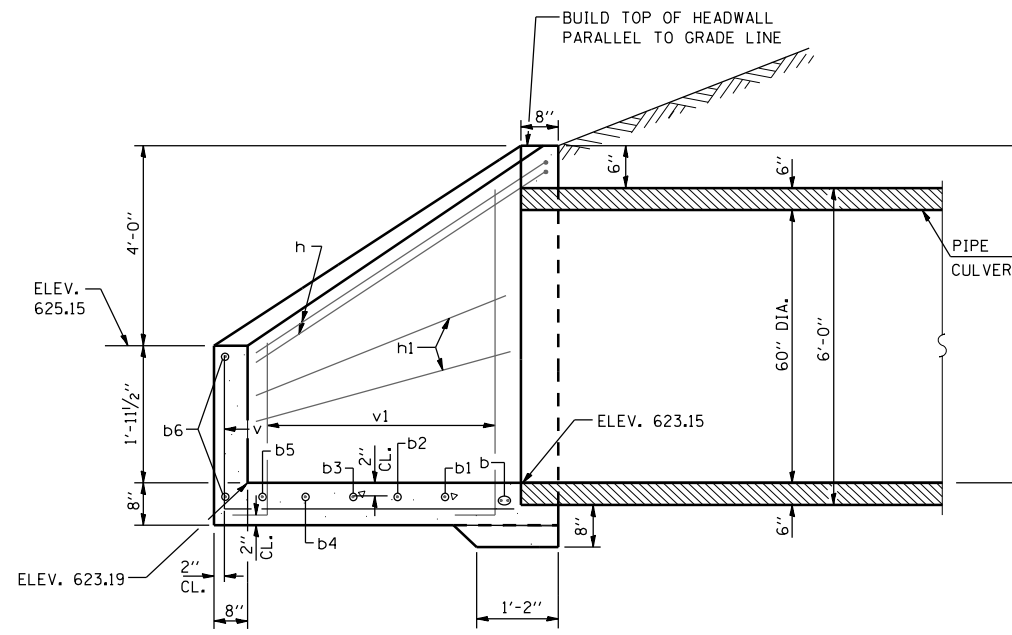
DATE 10/07
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 CHECKED BY MTH

9:40:27 AM

Mar-30-2011 09:40:27 AM

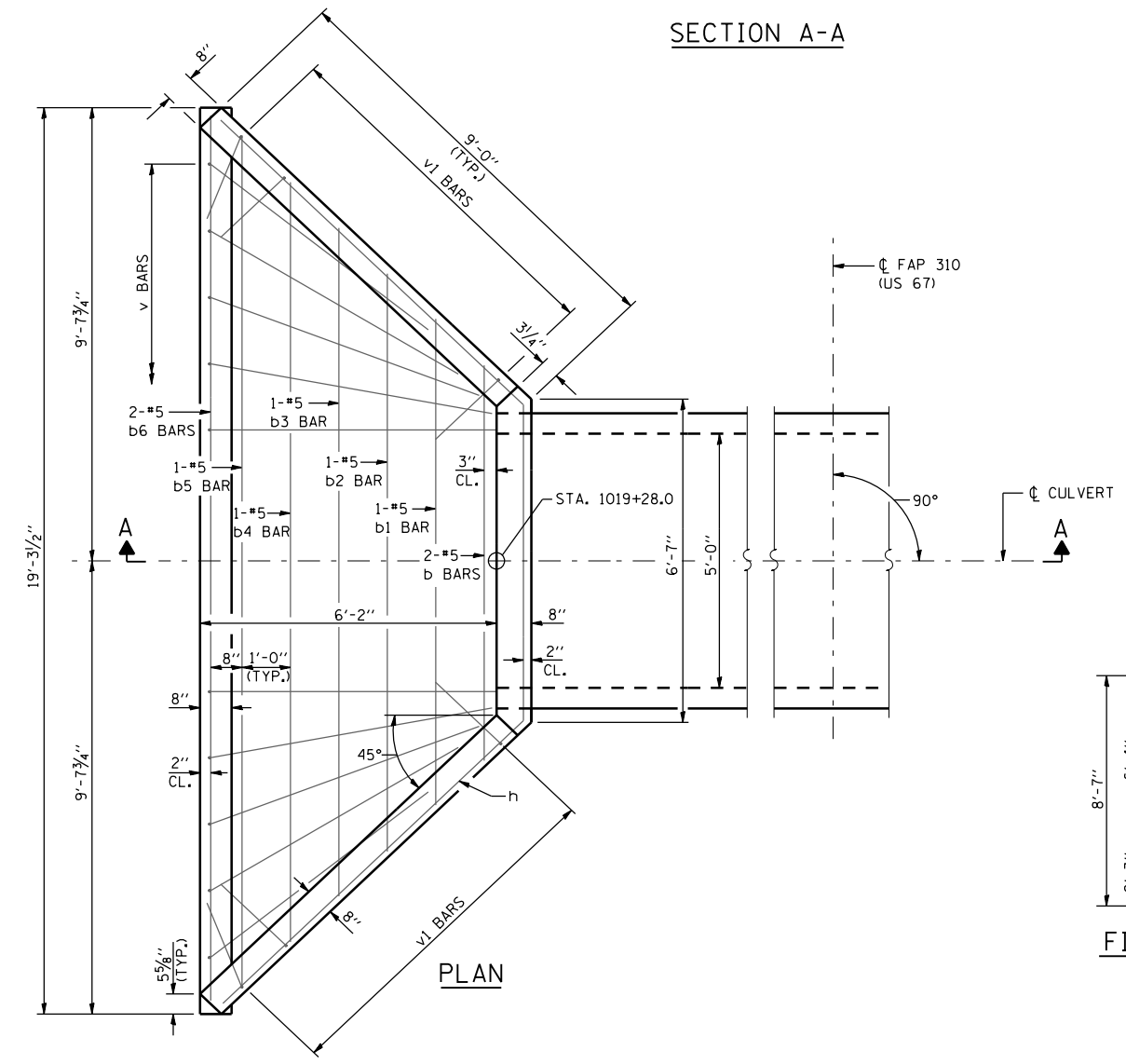
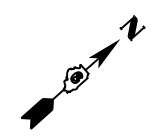
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	347
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

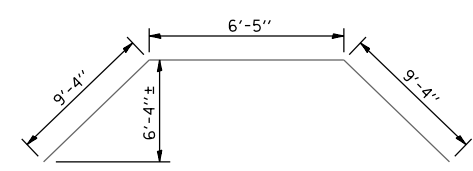


END VIEW • SEE FIELD CUTTING DIAGRAM

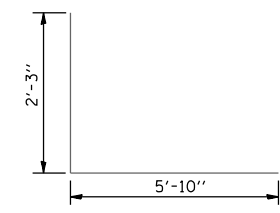
SECTION A-A



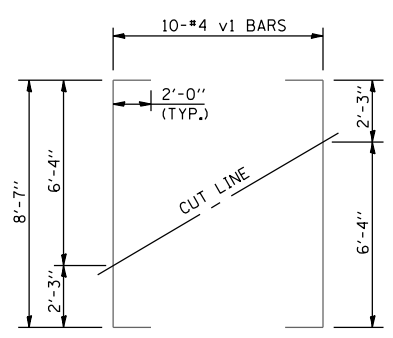
PLAN



BAR h (BEND IN FIELD)



BAR v



FIELD CUTTING DIAGRAM ORDER v1 BARS FULL LENGTH

•• BILL OF MATERIAL (1 END SECTION)

BAR NO.	SIZE	LENGTH	SHAPE
b	2 #5	8'-1"	—
b1	1 #5	10'-1"	—
b2	1 #5	12'-1"	—
b3	1 #5	14'-1"	—
b4	1 #5	16'-1"	—
b5	1 #5	18'-1"	—
b6	2 #5	18'-11"	—
h	2 #5	25'-1"	∩
h1	4 #4	8'-10"	—
v	13 #4	8'-1"	└
v1	10 #4	12'-7"	└

•• FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

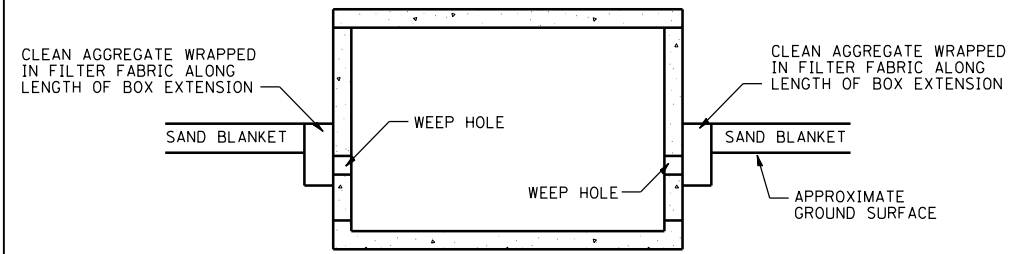
ILLINOIS DEPARTMENT OF TRANSPORTATION
 CULVERT END SECTION
 STATION 1019+28.00
 FAP 310 (US 67/IL 104)

DATE 10/07

DRAWN BY ADB
 CHECKED BY MTH

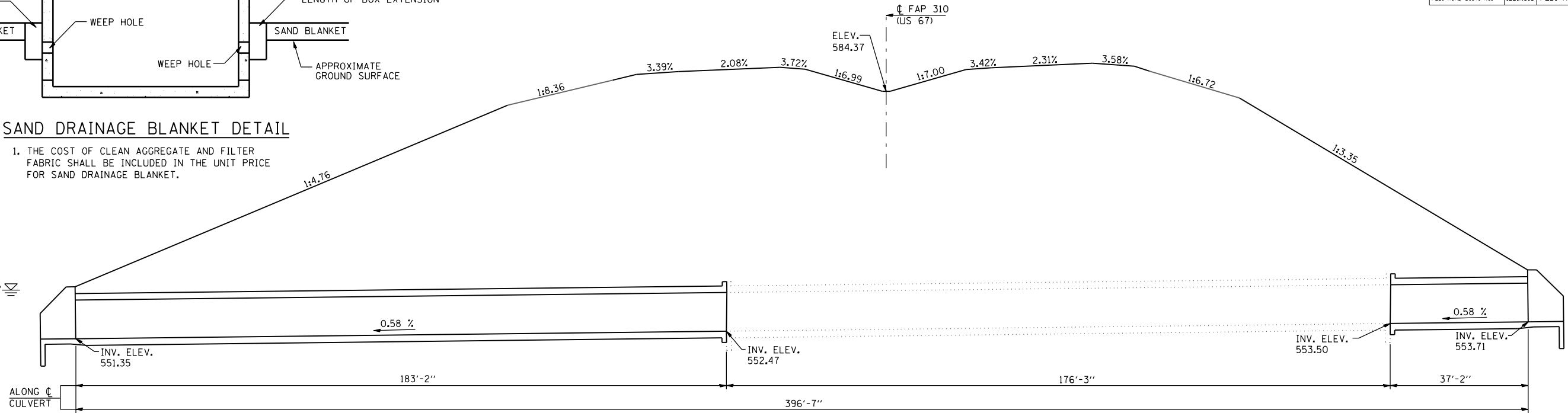
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	348
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

9:40:33 AM
Mar-30-2011 09:40:33AM

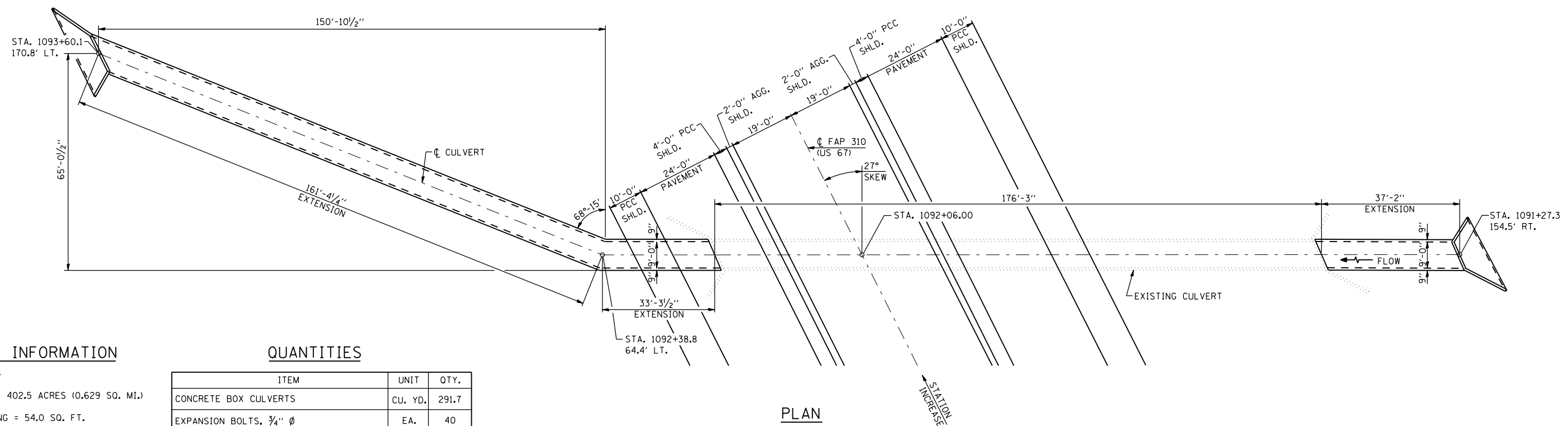


SAND DRAINAGE BLANKET DETAIL

1. THE COST OF CLEAN AGGREGATE AND FILTER FABRIC SHALL BE INCLUDED IN THE UNIT PRICE FOR SAND DRAINAGE BLANKET.



LONGITUDINAL SECTION
(LOOKING NORTH)



PLAN

WATERWAY INFORMATION

STATION 1092+06

DRAINAGE AREA = 402.5 ACRES (0.629 SQ. MI.)

PROPOSED OPENING = 54.0 SQ. FT.

Q₍₅₀₎ = 645 CFS
Q₍₁₀₀₎ = 751 CFS

U.S.F.L. STA. 1091+30.7, 155.2' RT., ELEV. 553.71
D.S.F.L. STA. 1093+61.2, 170.0' LT., ELEV. 551.47

QUANTITIES

ITEM	UNIT	QTY.
CONCRETE BOX CULVERTS	CU. YD.	291.7
EXPANSION BOLTS, 3/4" Ø	EA.	40
REINFORCEMENT BARS	POUND	70,070
GRANULAR CULVERT BACKFILL	CU. YD.	896

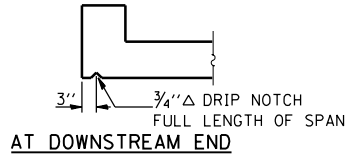
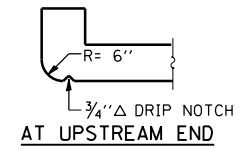
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
STATION 1092+06.00
FAP 310 (US 67/IL 104)

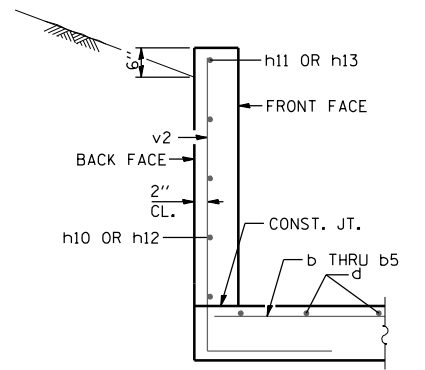
DATE 5/09
DRAWN BY RJP
CHECKED BY ADL

\$FILE\$

F.A.P. RTE. 310	SECTION 69-3(3HB)	COUNTY MORGAN	TOTAL SHEETS 793	SHEET NO. 349
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

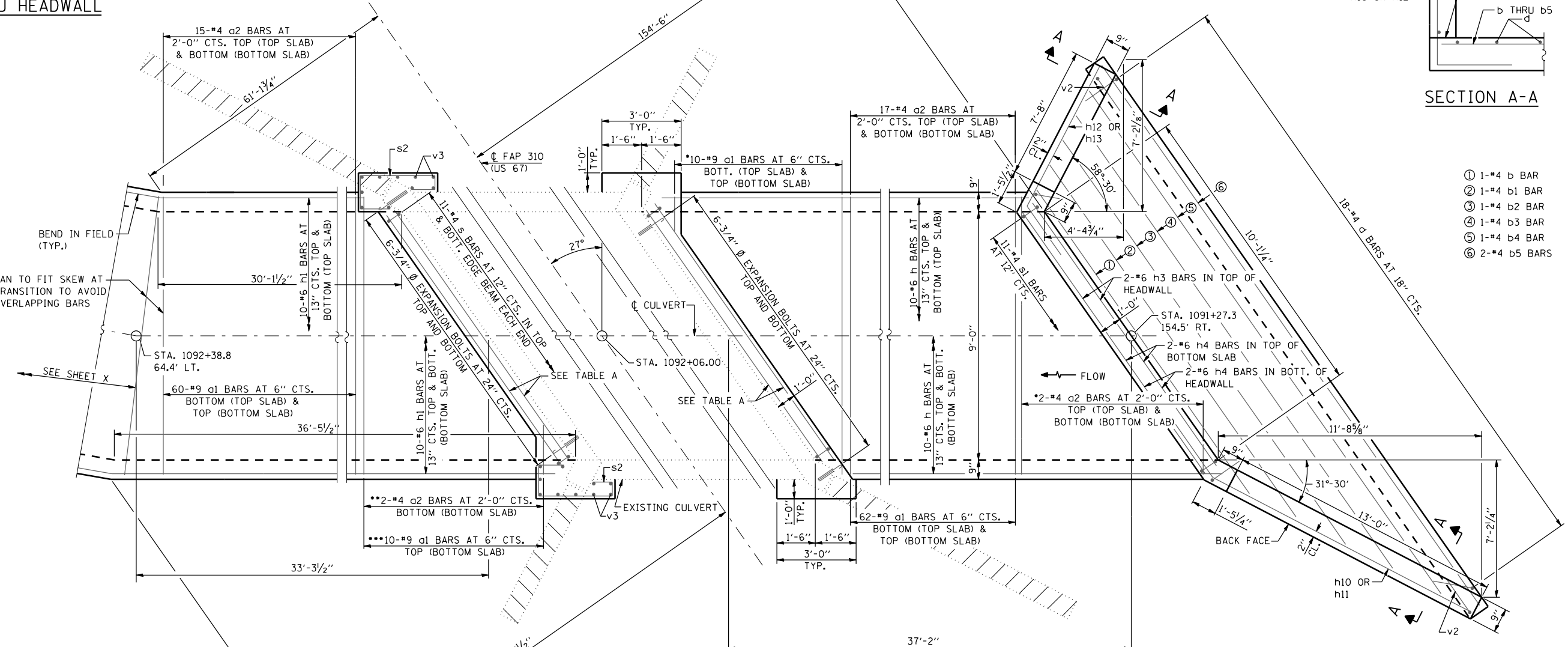


SECTION THRU HEADWALL



SECTION A-A

- ① 1-#4 b BAR
- ② 1-#4 b1 BAR
- ③ 1-#4 b2 BAR
- ④ 1-#4 b3 BAR
- ⑤ 1-#4 b4 BAR
- ⑥ 2-#4 b5 BARS



PLAN

NOTE:
IF ROCK EXCAVATION IS REQUIRED, IT SHOULD EXTEND 6" BELOW THE BOTTOM OF THE CULVERT WITH 6" OF POROUS GRANULAR EMBANKMENT BELOW THE BOX. QUANTITIES FOR ROCK EXCAVATION AND POROUS GRANULAR EMBANKMENT ARE INCLUDED IN THE PLANS SHOULD THIS BE REQUIRED.

NOTE:
HATCHED AREA INDICATES CONCRETE REMOVAL. COST INCLUDED WITH CONCRETE BOX CULVERTS.

- ORDER a1 & a2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER IN OPPOSITE END. ALTERNATE HOOK OF a1 BARS FOR PLACEMENT.
- ORDER a2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER OF BARS FROM BOTTOM SLAB IN TOP OF TOP SLAB.
- ORDER a1 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER OF BARS FROM BOTTOM SLAB IN BOTTOM OF TOP SLAB. ALTERNATE HOOK OF a1 BARS FOR PLACEMENT.

TABLE A

LOCATION	NO. OF BARS	BAR
TOP OF TOP EDGE BEAM	2	h3
BOTT. OF TOP EDGE BEAM	2	h4
TOP OF BOTT. EDGE BEAM	2	h4
BOTT. OF BOTT. EDGE BEAM	2	h3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT EXTENSIONS-1
STATION 1092+06.00
FAP 310 (US 67/IL 104)

DATE 5/09
DRAWN BY RJP
CHECKED BY ADL

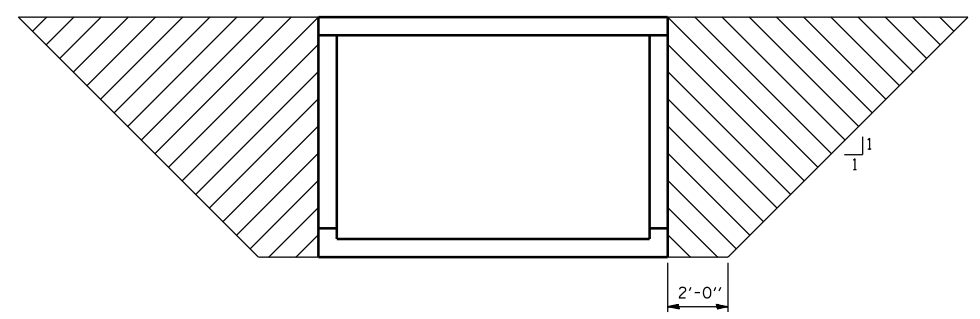
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	350
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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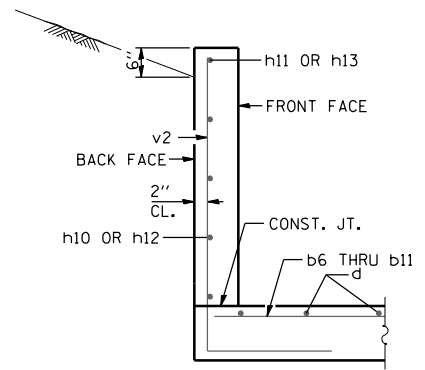
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MIN. BAR LAP
#6 = 2'-0"

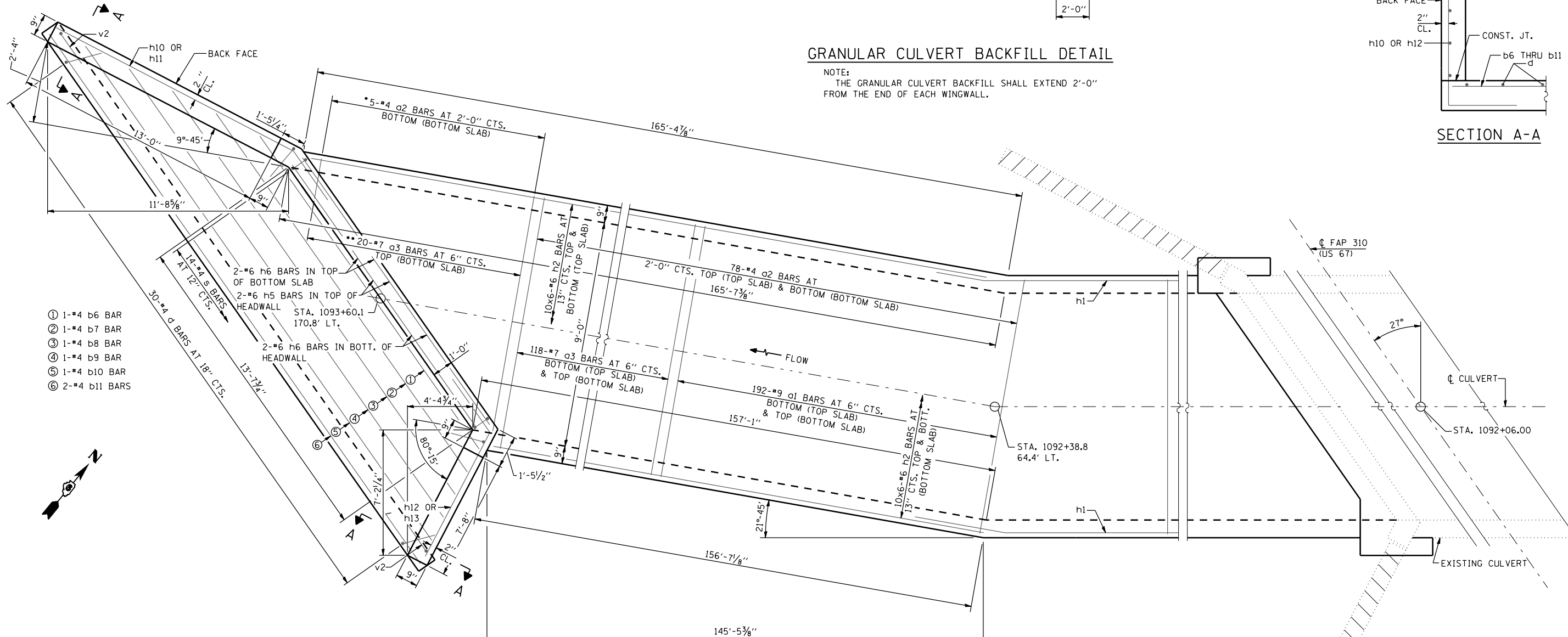


GRANULAR CULVERT BACKFILL DETAIL

NOTE:
THE GRANULAR CULVERT BACKFILL SHALL EXTEND 2'-0" FROM THE END OF EACH WINGWALL.



SECTION A-A



- ① 1-#4 b6 BAR
- ② 1-#4 b7 BAR
- ③ 1-#4 b8 BAR
- ④ 1-#4 b9 BAR
- ⑤ 1-#4 b10 BAR
- ⑥ 2-#4 b11 BARS

NOTE:
HATCHED AREA INDICATES CONCRETE REMOVAL.
COST INCLUDED WITH CONCRETE REMOVAL.

NOTE:
IF ROCK EXCAVATION IS REQUIRED, IT SHOULD EXTEND 6" BELOW THE BOTTOM OF THE CULVERT WITH 6" OF POROUS GRANULAR EMBANKMENT BELOW THE BOX. QUANTITIES FOR ROCK EXCAVATION AND POROUS GRANULAR EMBANKMENT ARE INCLUDED IN THE PLANS SHOULD THIS BE REQUIRED.

- ORDER q2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER OF BARS FROM BOTTOM SLAB IN TOP OF TOP SLAB.
- ORDER q3 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER OF BARS FROM BOTTOM SLAB IN BOTTOM OF TOP SLAB. ALTERNATE HOOK OF q3 BARS FOR PLACEMENT.

PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT EXTENSIONS-2
STATION 1092+06.00
FAP 310 (US 67/IL 104)

DATE 5/09

DRAWN BY RJP
CHECKED BY ADL

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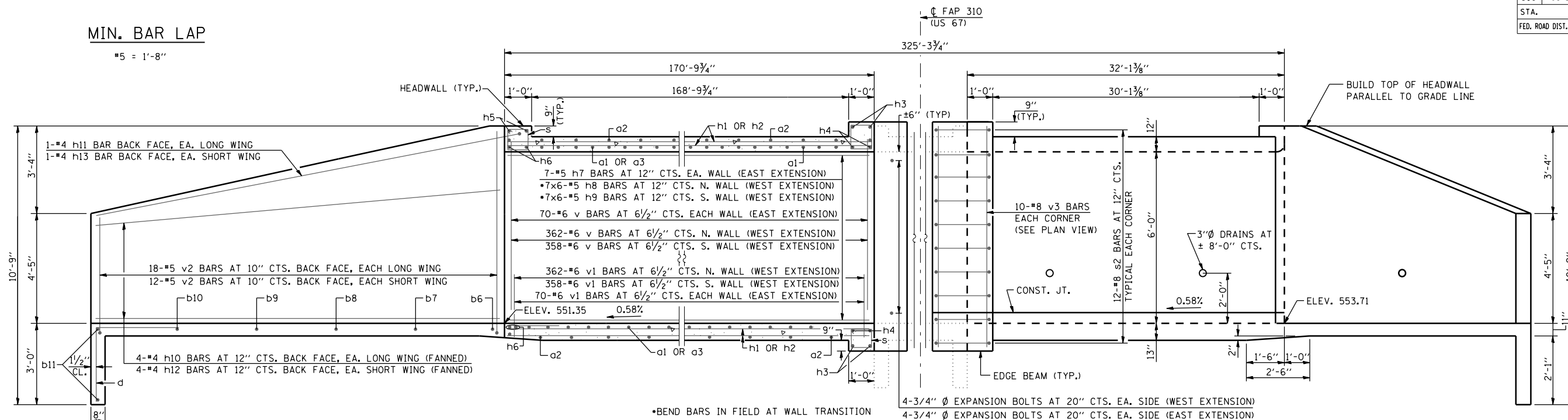
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	351
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

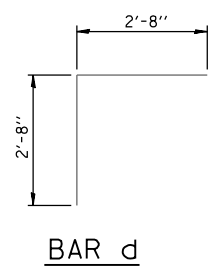
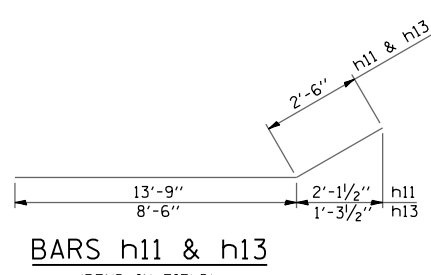
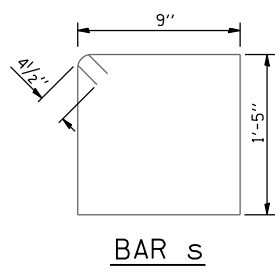
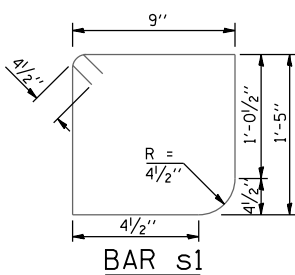
MIN. BAR LAP

*5 = 1'-8"



BILL OF MATERIAL

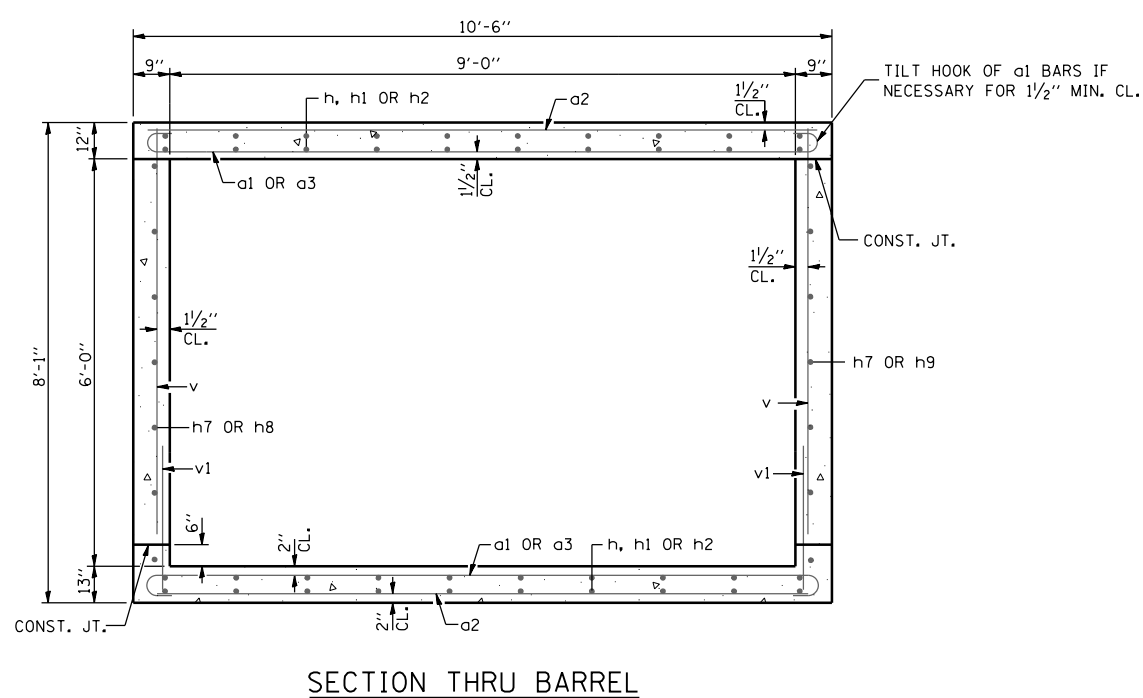
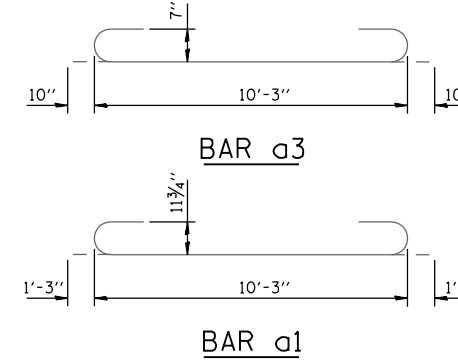
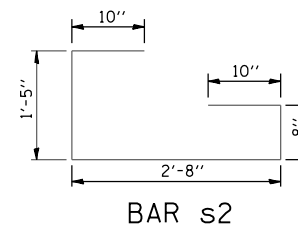
BAR	NO.	SIZE	LENGTH	SHAPE
a1	658	#9	12'-9"	□
a2	231	#4	10'-3"	□
a3	256	#7	11'-11"	□
b	1	#4	12'-0"	□
b1	1	#4	14'-0"	□
b2	1	#4	17'-4"	□
b3	1	#4	20'-9"	□
b4	1	#4	24'-1"	□
b5	2	#4	26'-8"	□
b6	1	#4	15'-6"	□
b7	1	#4	17'-7"	□
b8	1	#4	21'-0"	□
b9	1	#4	24'-3"	□
b10	1	#4	27'-8"	□
b11	2	#4	30'-2"	□
d	48	#4	5'-4"	□
h	40	#6	36'-9"	□
h1	40	#6	36'-2"	□
h2	240	#6	29'-9"	□
h3	10	#6	10'-0"	□
h4	10	#6	11'-2"	□
h5	2	#6	13'-5"	□
h6	4	#6	15'-5"	□
h7	14	#5	36'-9"	□
h8	42	#5	29'-5"	□
h9	42	#5	28'-0"	□
h10	8	#4	13'-9"	□
h11	2	#4	16'-3"	□
h12	8	#4	8'-6"	□
h13	2	#4	11'-0"	□
s	58	#4	5'-1"	□
s1	14	#4	4'-11"	□
s2	40	#8	6'-5"	□
v	860	#6	6'-3"	□
v1	860	#6	3'-3"	□
v2	30	#5	17'-7"	□
v3	40	#8	7'-10"	□
REINFORCEMENT BARS		POUND	70,070	



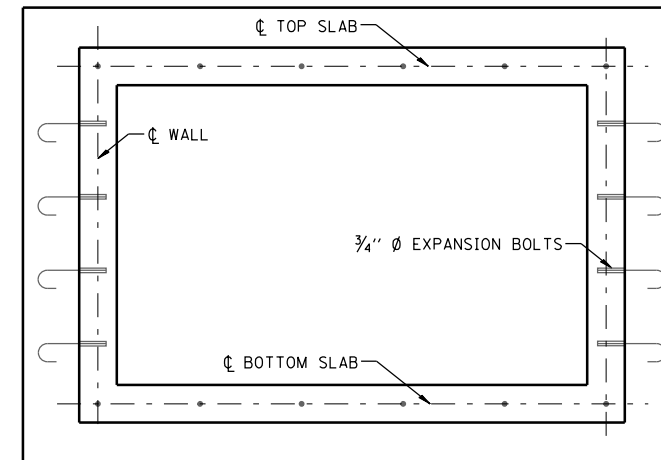
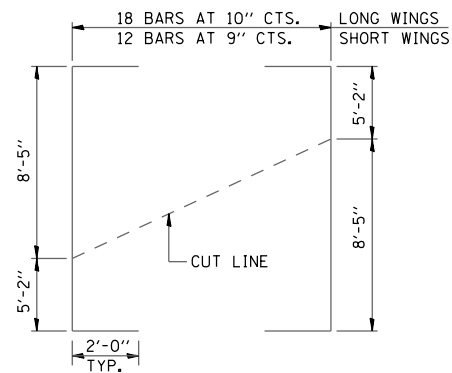
DESIGN STRESSES

(NEW CONSTRUCTION)
 f_y = 60,000 PSI
 f'c = 3,500 PSI

LOADING HS 20-44 & ALT.
(NEW CONSTRUCTION)



FIELD CUTTING DIAGRAM BAR v2



NOTES:

1. EXPOSED EDGES SHALL BE BEVELED 3/4".
2. FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
3. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR. 60 (IL MODIFIED), SEE SPECIAL PROVISIONS.
4. EXPANSION BOLTS SHALL BE 3/4" Ø HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.
5. BARS INDICATED THUS 7x6-#5 ETC. INDICATES 7 LINES OF BARS WITH 6 LENGTHS PER LINE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT DETAILS
 STATION 1092+06.00
 FAP 310 (US 67/IL 104)

DATE 5/09
 DRAWN BY RJP
 CHECKED BY ADL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	353
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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Mar-30-2011 09:40:35AM



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 3/31/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. . TWP. . RNG. . PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. <u>N/A</u>	D	B	U	M	Surface Water Elev. <u>550.1 ft</u>
Station <u>1092+77</u>	E	L	C	O	Stream Bed Elev. <u>549.7 ft</u>
	P	O	S	I	
BORING NO. <u>85</u>	T	W	Q	S	Groundwater Elev.:
Station <u>1094+00</u>	H	S	Qu	T	<u>First Encounter</u> <u>546.8 ft</u>
Offset <u>130.0ft Lt</u>					<u>Upon Completion</u> <u>545.8 ft</u>
Ground Surface Elev. <u>560.3 ft</u>	(ft)	/6"	(1st)	(%)	<u>After 5 Days Hrs.</u> <u>550.3 ft</u>

Dark Grey to Grey Moist SILTY CLAY LOAM CLASSIFICATION 85-1					
	0				
	1	0.5	25		
	2	B			
555.30					
Brown and Grey Moist SILTY CLAY LOAM CLASSIFICATION 85-2					
	0				
	1	0.5	24		
	2	B			
552.30					
Brown and Grey V. Moist Shaley SILTY CLAY LOAM (Residuum) CLASSIFICATION 85-3					
	1				
	2	0.3	28		
	1	B			
549.30					
Tan and Light Blue Grey Dry Micaceous Weathered Clayey SHALE					
	14		14		
	14				
Grey Dry Fissile Clayey SHALE interbedded w/ calcareous shale seams Free Water					
	100		10		
	/3"				
	25				
	100		7		
	/3"				
540.80					
Boring Completed					

File Name: S:\SOILS\DRY FILES\MORGAN\US 67 PROPOSED\DR-00-04 CHRN-BETHEL SURVEY\DATA Template\DRBML1.DAT Date Printed 3/17/11
Latitude 39 Deg 47.728 N Longitude 90 Deg 27.838 W Datum NAD83 Job Number

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

FILE \$

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT BORINGS
STATION 1092+06.00
FAP 310 (US 67/IL 104)

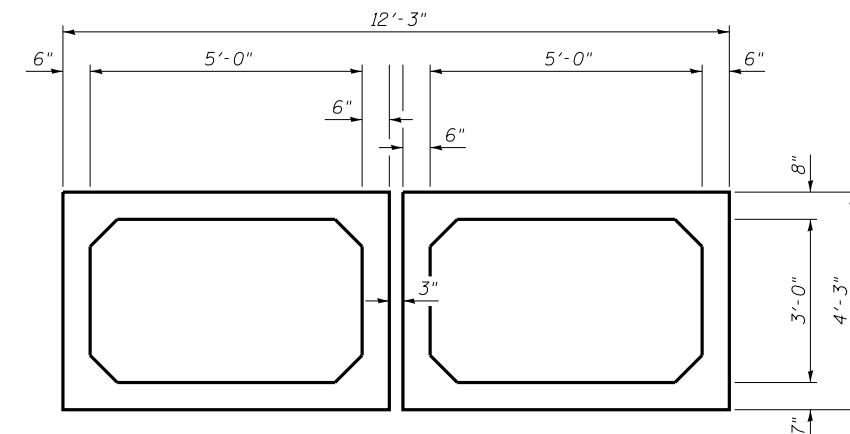
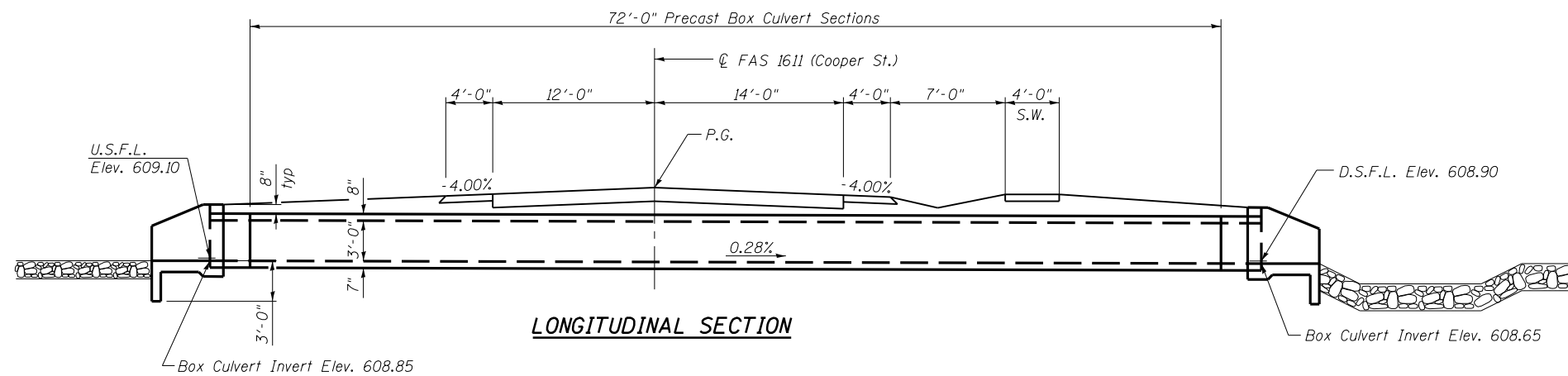
DRAWN BY EBB
CHECKED BY
DATE 3/11

9:40:41 AM

Mar-30-2011 09:40:41AM

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	354
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION THRU BARREL

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

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

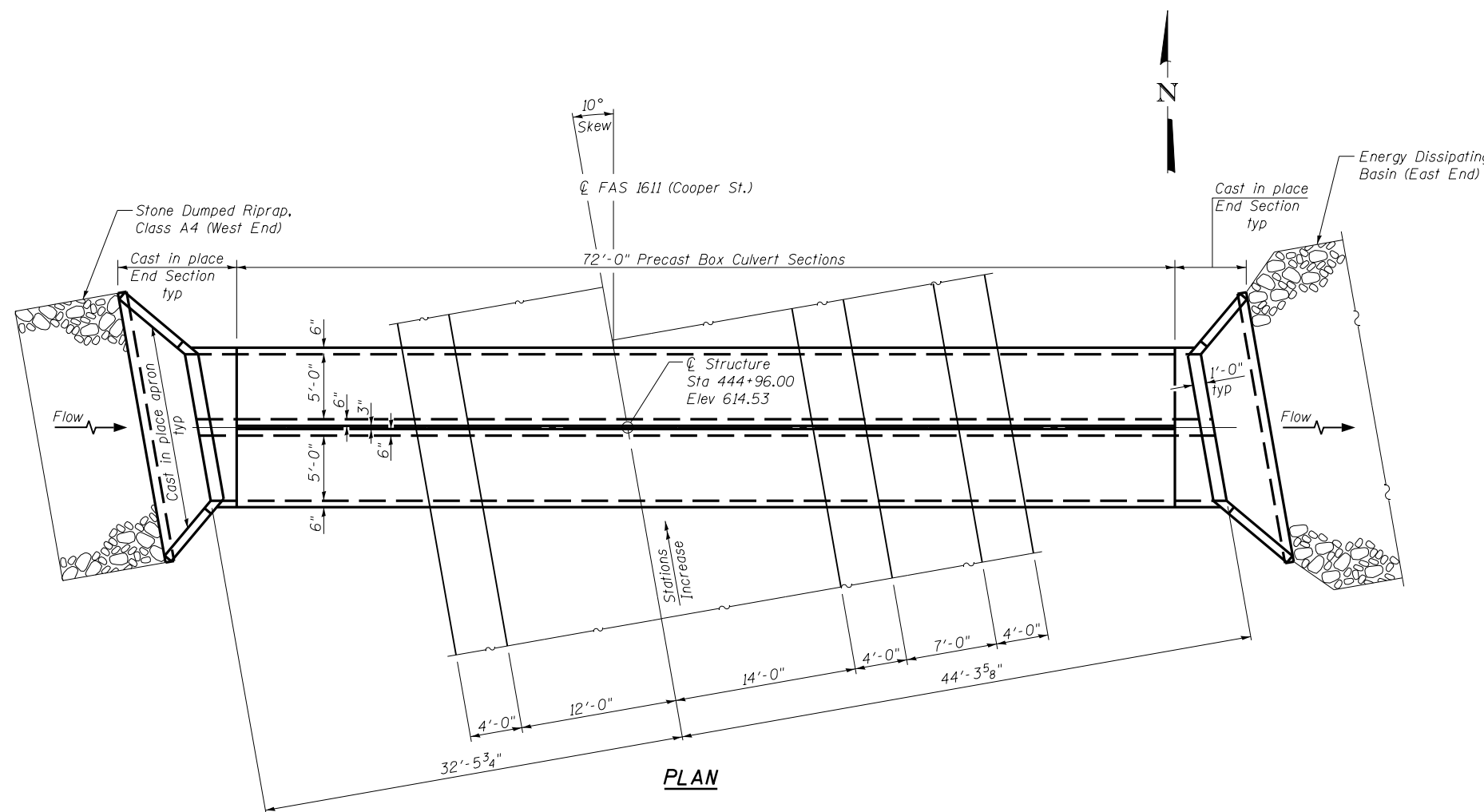
PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)

Note:
 The precast concrete box culverts shall conform to the requirements of AASHTO M 273.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	16.4
Granular Culvert Backfill	Cu. Yd.	110
Precast Concrete Box Culvert 5'x3' (M273)	Foot	72.0
Reinforcement Bars	Pound	1,930



PLAN

REVISIONS	
NAME	DATE

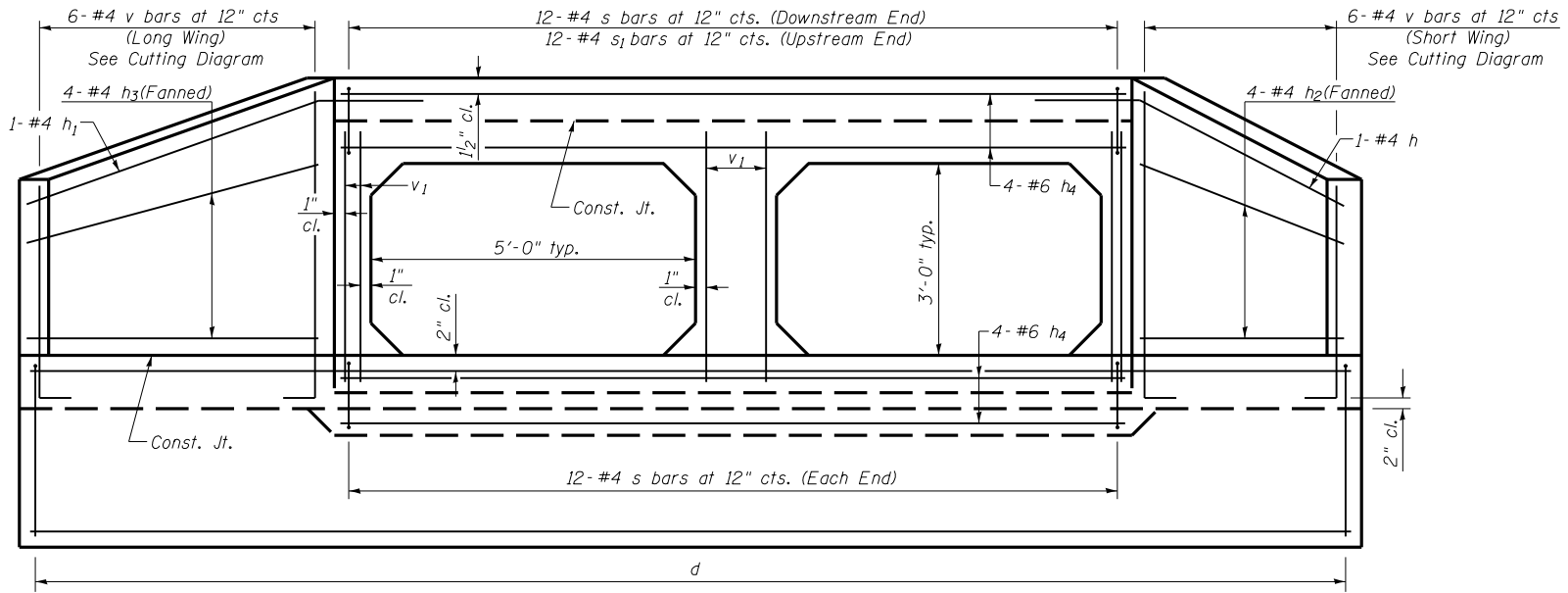
ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 STATION 444+96.00
 FAS 1611 (COOPER STREET)

DRAWN BY
 CHECKED BY
 DATE

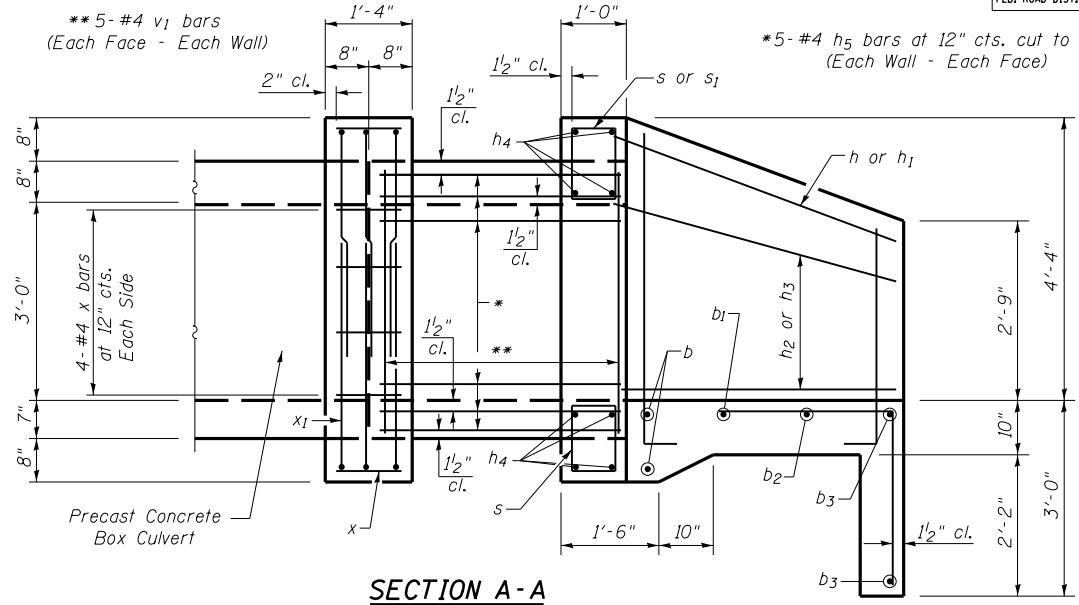
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310	69-3(3HB)	MORGAN	793	355
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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Mar-30-2011 09:40:41AM



END ELEVATION



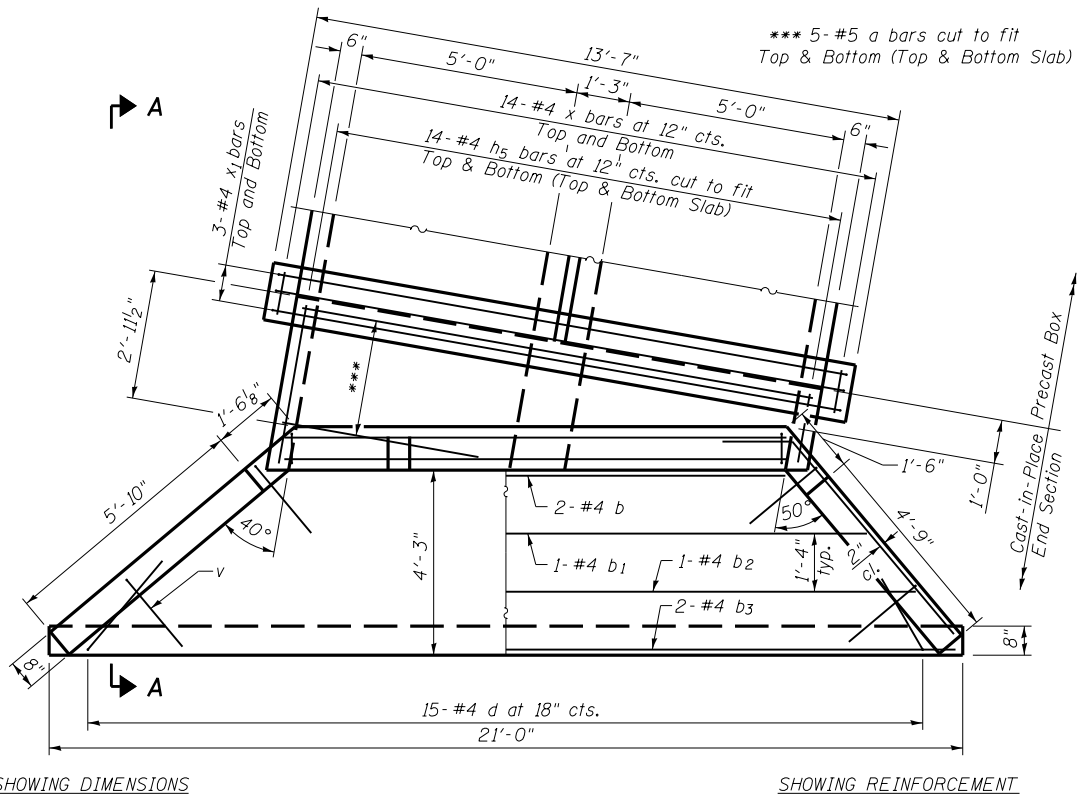
SECTION A-A

NOTES:

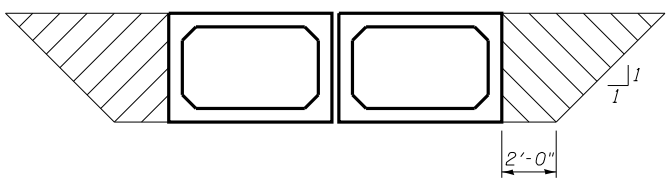
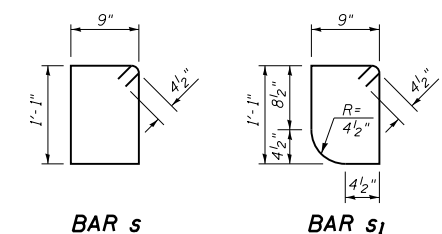
- Bill of Material for 2 end sections.
- Bar dimensions are out to out.
- Not to scale or proper orientation.
- Exposed edges shall be beveled 3_4 ".
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- Headwall at 10° skew to culvert ϕ .
- Minimum bar laps:
#4 bar = 1'-9"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	40	#6	11'-11"	
b	4	#4	13'-1"	
b1	2	#4	15'-9"	
b2	2	#4	18'-6"	
b3	4	#4	20'-8"	
d	30	#4	5'-4"	
h	2	#4	8'-6"	
h1	2	#4	9'-7"	
h2	8	#4	6'-2"	
h3	8	#4	7'-4"	
h4	16	#6	11'-3"	
h5	60	#4	3'-8"	
s	36	#4	4'-5"	
s1	12	#4	4'-3"	
v	24	#4	12'-1"	
v1	60	#4	3'-11"	
x	72	#4	1'-0"	
x1	12	#4	16'-9"	
Reinforcement Bars			Pound	1,930

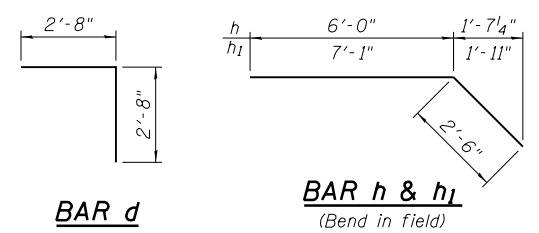


PLAN



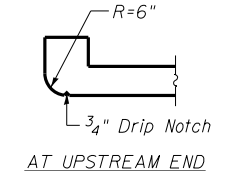
GRANULAR CULVERT BACKFILL DETAIL

Note:
The Granular Culvert Backfill shall extend 2'-0" from the end of each wingwall.

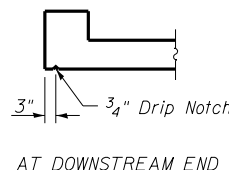


BAR d

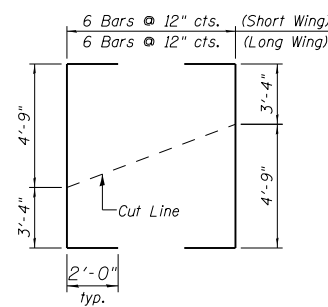
BAR h & h1
(Bend in field)



AT UPSTREAM END



AT DOWNSTREAM END



FIELD CUTTING DIAGRAM
BAR v

REVISIONS	
NAME	DATE

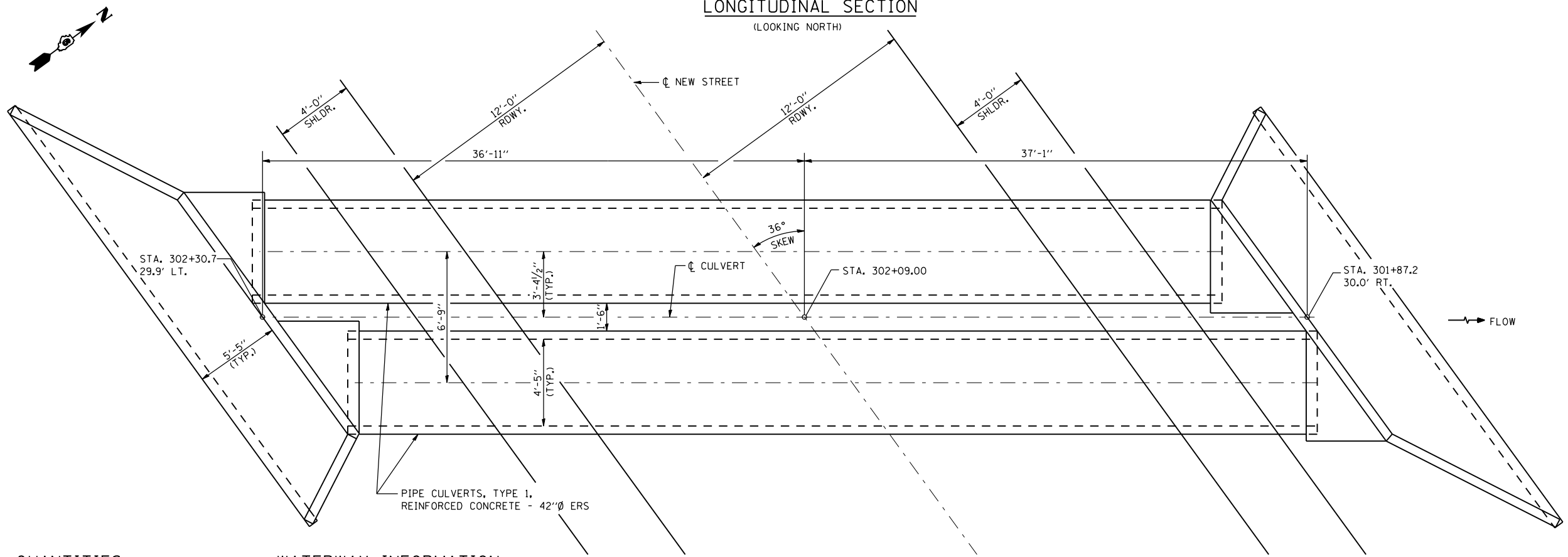
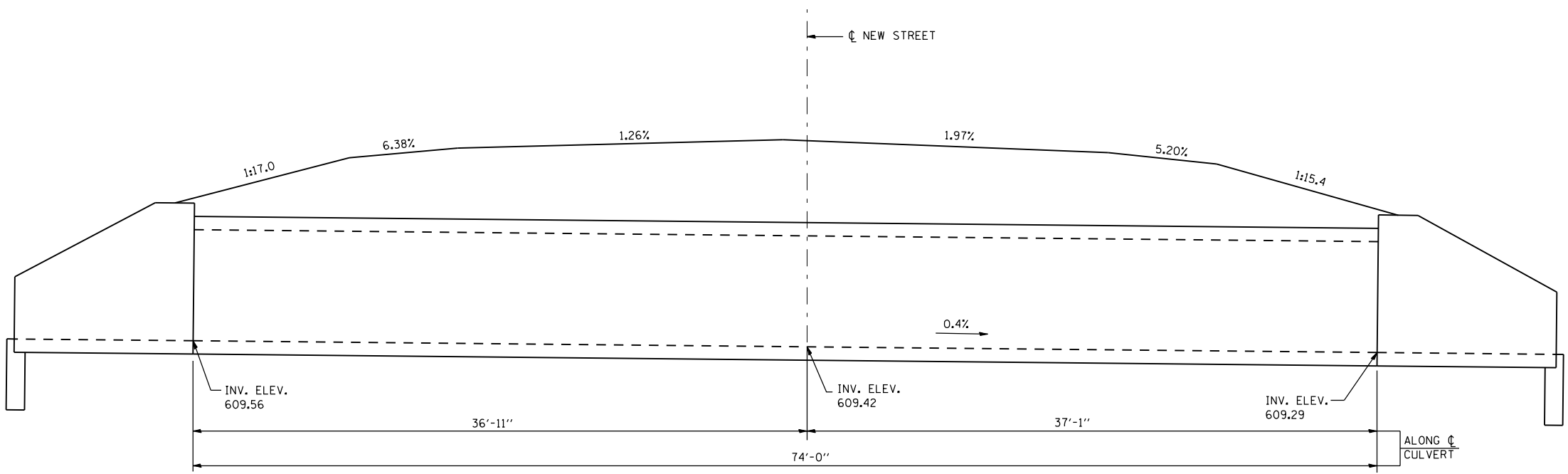
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS
STATION 444+96.00
FAS 1611 (COOPER STREET)
 DRAWN BY
 CHECKED BY
 DATE

\$ FILE \$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	356
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

9:40:47 AM
Mar-30-2011 09:40:47AM

612.23 100 YR. H.W.E.
611.98 50 YR. H.W.E.



QUANTITIES

ITEM	UNIT	QTY.
PIPE CULVERTS, REINFORCED CONCRETE, TYPE 1, 42"Ø ERS	L.F.	148
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS	CU. YD.	17.4
REINFORCEMENT BARS	POUND	1110

WATERWAY INFORMATION

STATION 302+09
 DRAINAGE AREA = 91.3 ACRES (0.143 SQ. MI.)
 PROPOSED OPENING = 20.4 SQ. FT.
 Q₍₅₀₎ = 80 CFS
 Q₍₁₀₀₎ = 92 CFS
 U.S.F.L. STA. 302+30.7, 29.9' LT., ELEV. 609.56
 D.S.F.L. STA. 301+87.2, 30.0' RT., ELEV. 609.29

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 STATION 302+09.00
 NEW STREET

DATE 10/07
 DRAWN BY ADB
 CHECKED BY MTH

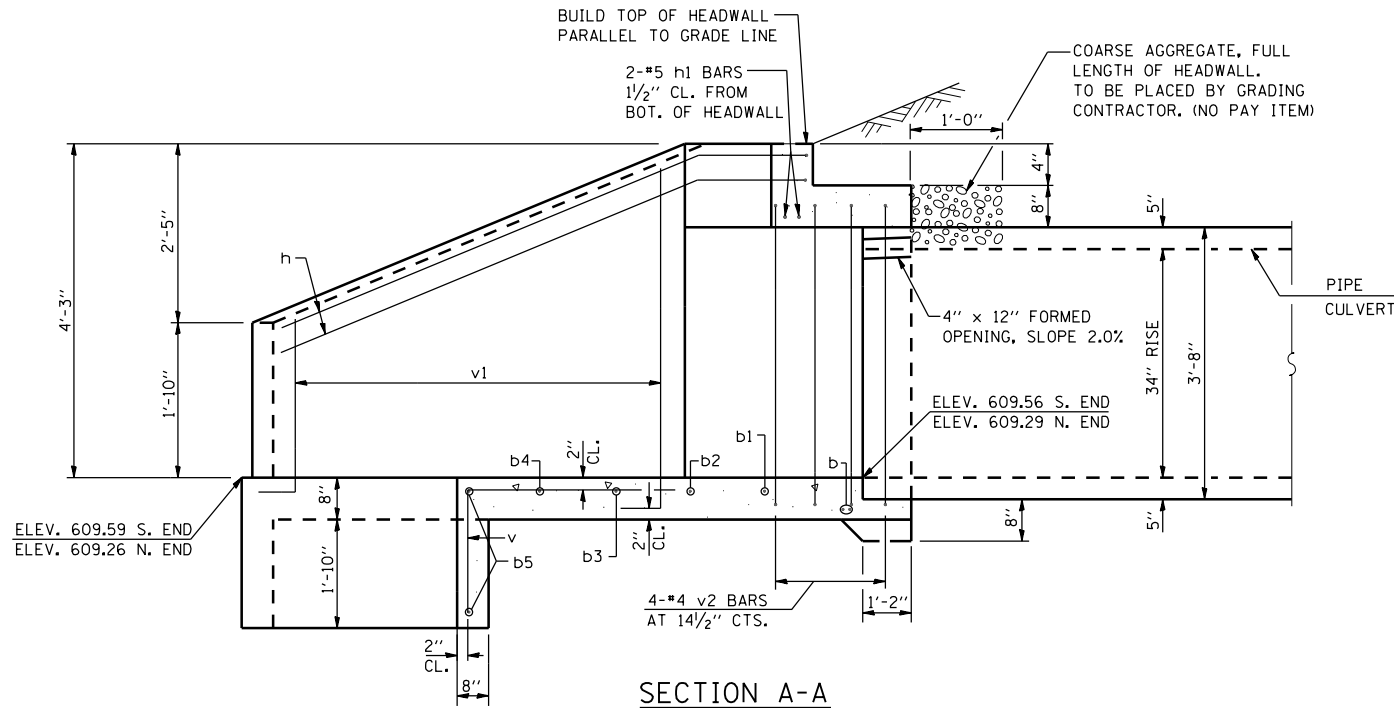
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	357
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

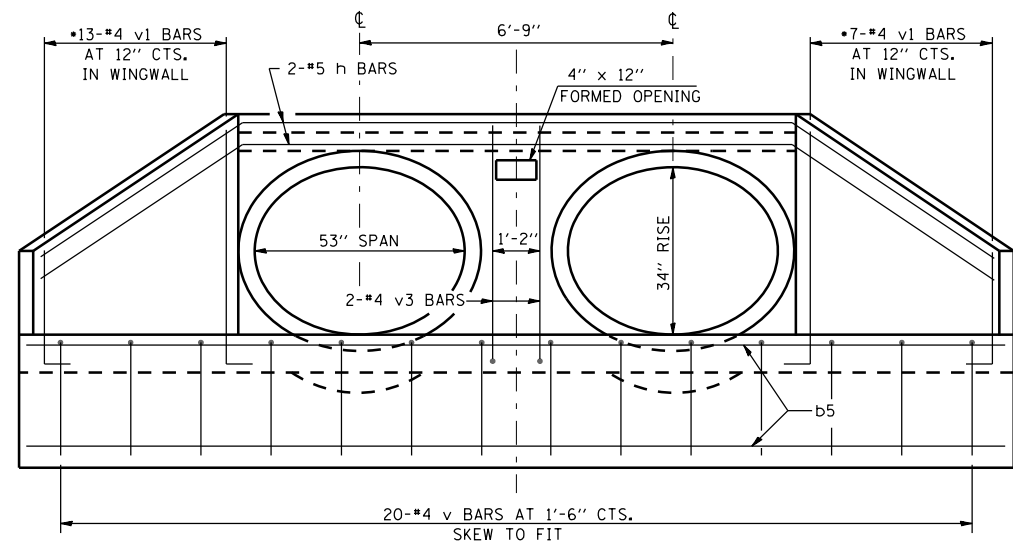
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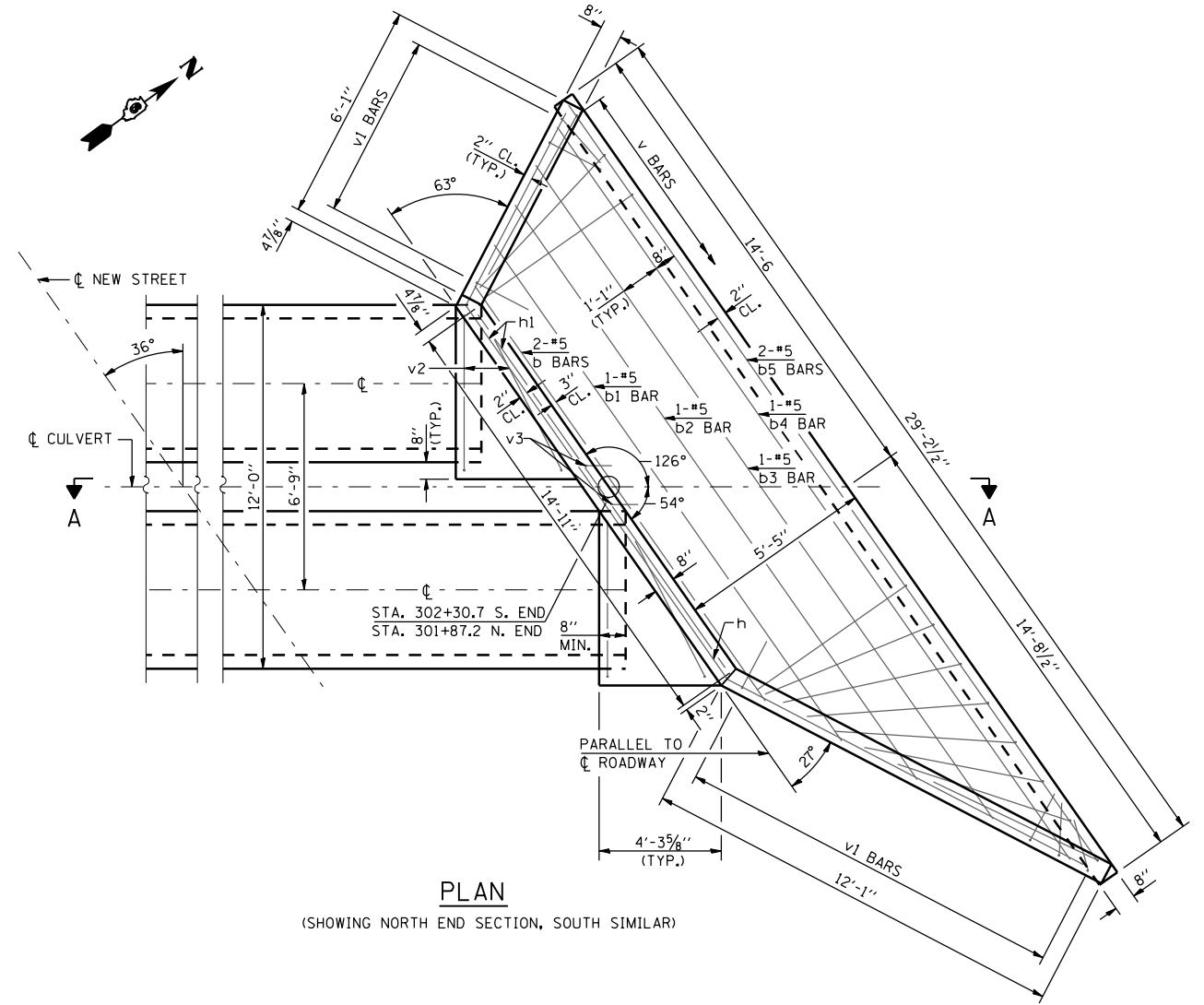


SECTION A-A



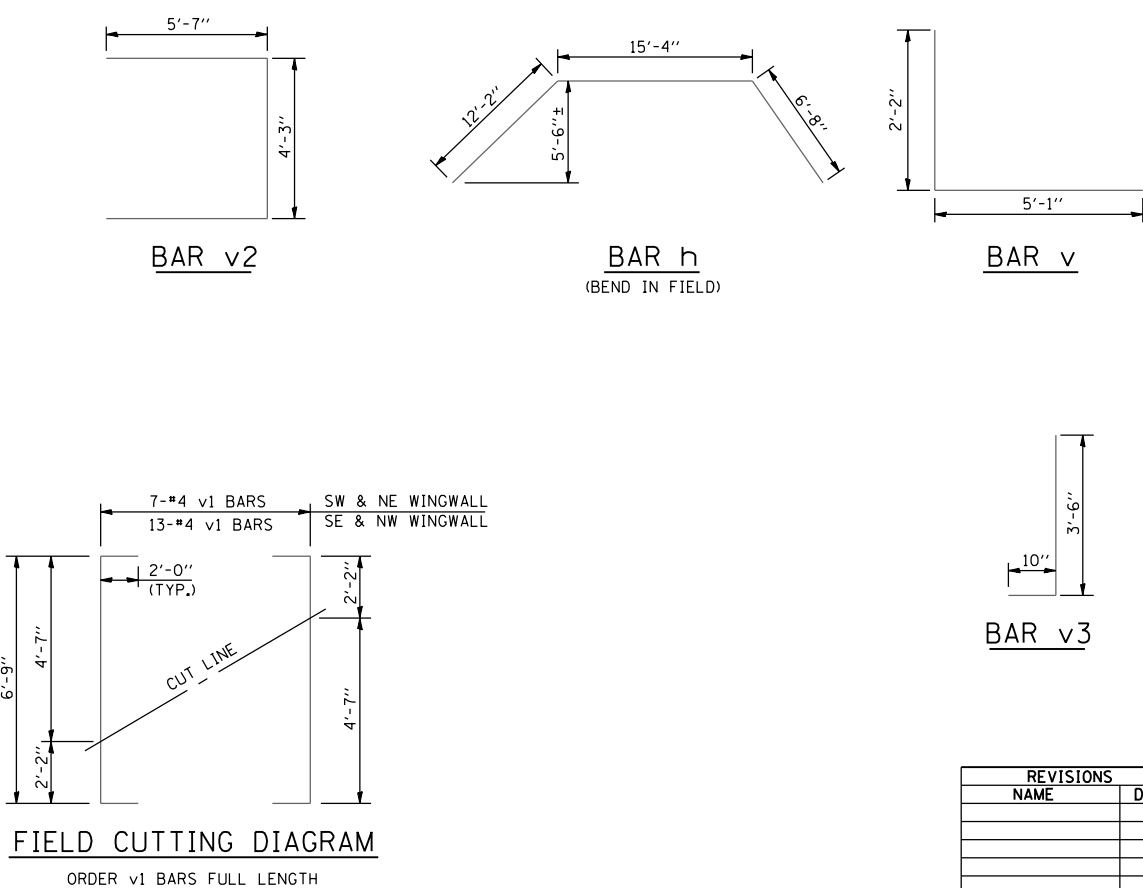
END ELEVATION

• SEE FIELD CUTTING DIAGRAM



PLAN

(SHOWING NORTH END SECTION, SOUTH SIMILAR)



FIELD CUTTING DIAGRAM

ORDER v1 BARS FULL LENGTH

BILL OF MATERIAL
(2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
b	4	#5	17'-2"	—
b1	2	#5	19'-10"	—
b2	2	#5	22'-6"	—
b3	2	#5	25'-2"	—
b4	2	#5	27'-10"	—
b5	4	#5	28'-10"	—
h	4	#5	34'-2"	∩
h1	4	#5	14'-7"	—
v	40	#4	7'-3"	∩
v1	20	#4	10'-9"	∩
v2	16	#4	15'-5"	∩
v3	4	#4	4'-4"	∩

•• FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

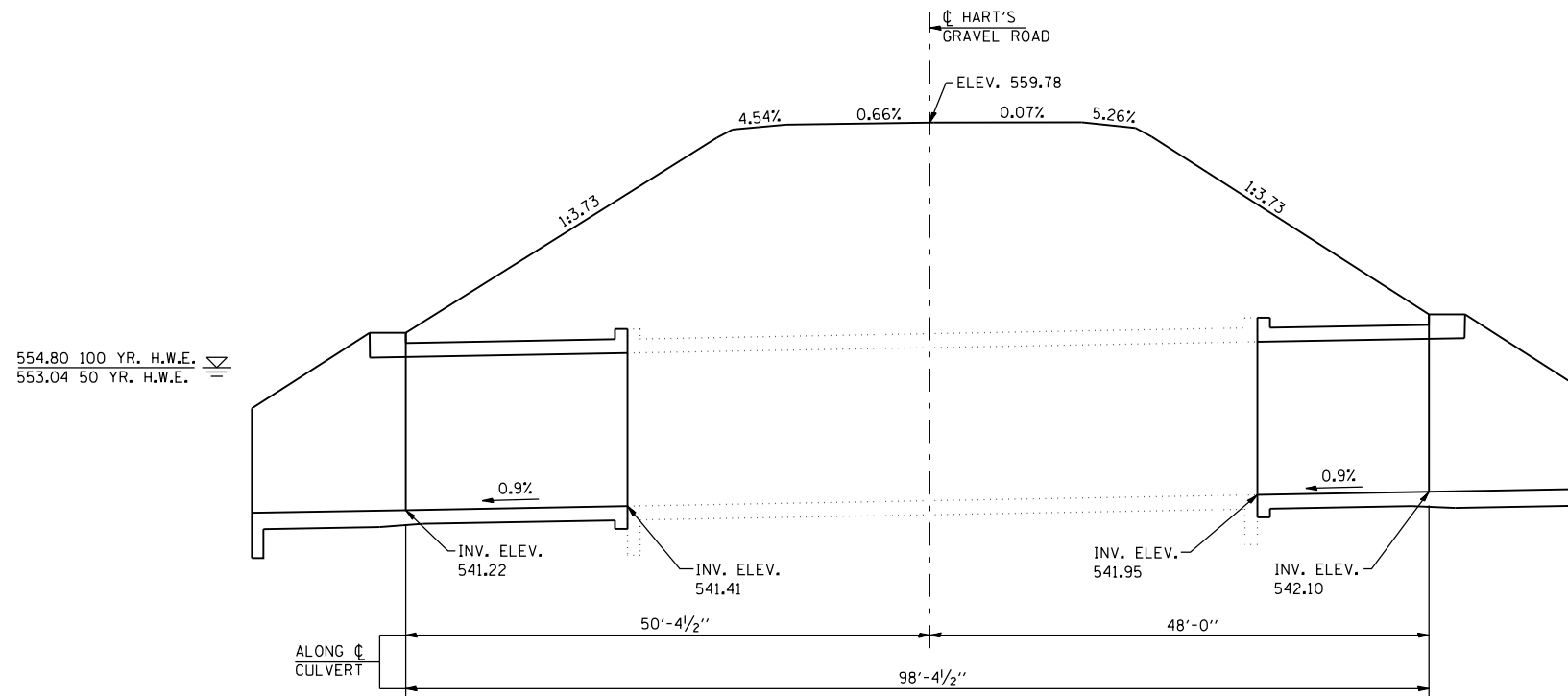
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT END SECTIONS
STATION 302+09.00
NEW STREET

DATE 10/07
DRAWN BY ADB
CHECKED BY MTH

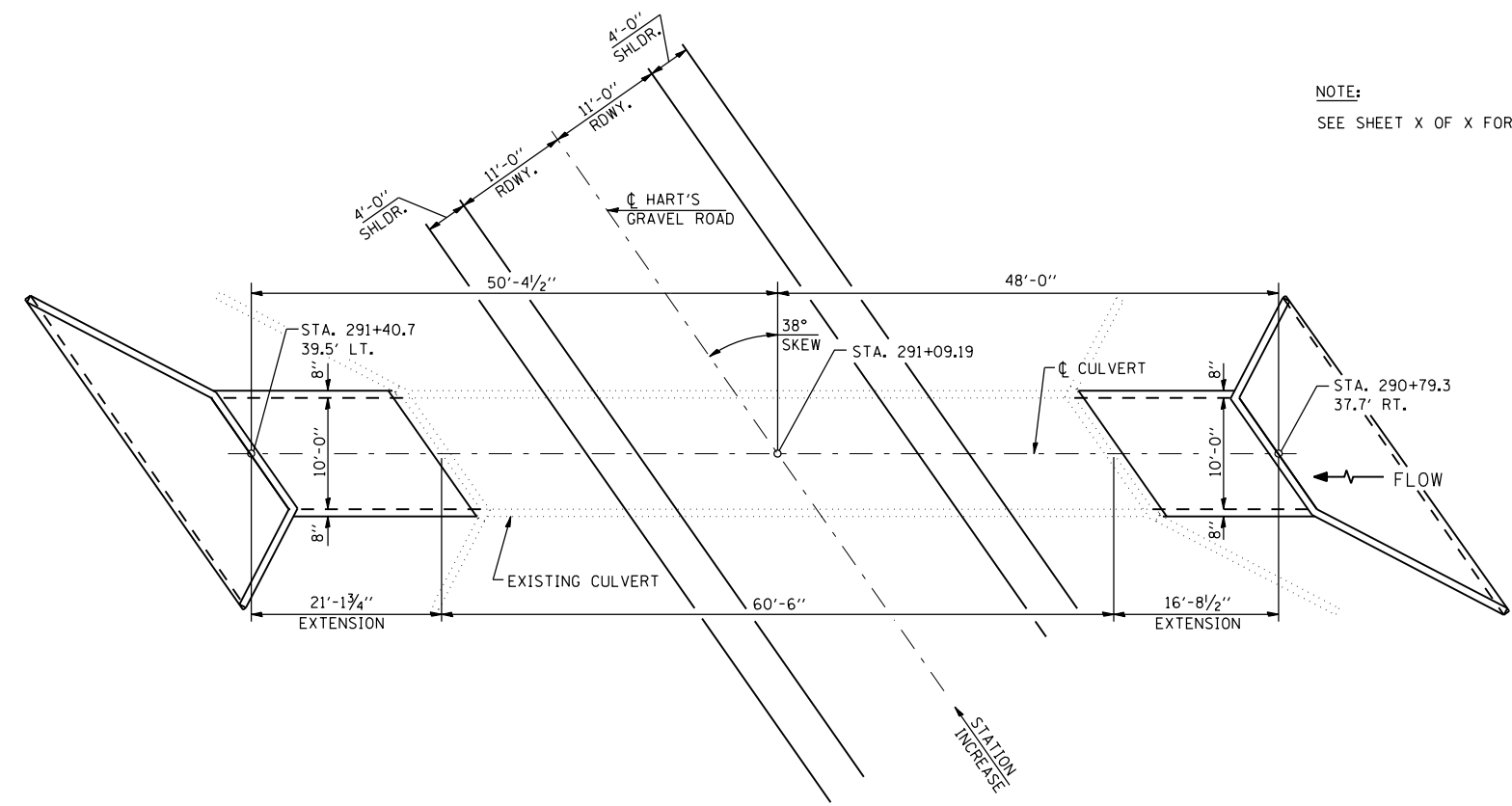
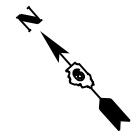
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	358
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

9:40:53 AM

Mar-30-2011 09:40:53AM



LONGITUDINAL SECTION
(LOOKING NORTH)



PLAN

NOTE:
SEE SHEET X OF X FOR STONE DUMPED RIPRAP DETAILS

WATERWAY INFORMATION

STATION 291+09
 DRAINAGE AREA = 516.3 ACRES (0.807 SQ. MI.)
 PROPOSED OPENING = 80.0 SQ. FT.
 $Q_{(50)} = 877$ CFS
 $Q_{(100)} = 1023$ CFS
 U.S.F.L. STA. 290+79.3, 37.7' RT., ELEV. 542.10
 D.S.F.L. STA. 291+40.7, 39.5' RT., ELEV. 541.22

QUANTITIES

ITEM	UNIT	QTY.
CONCRETE BOX CULVERTS	CU. YD.	80.7
EXPANSION BOLTS, 3/4" Ø	EA.	52
REINFORCEMENT BARS	POUND	11,900
GRANULAR CULVERT BACKFILL	CU. YD.	265

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
 STATION 291+09.19
 TR 18 (HART'S GRAVEL ROAD)

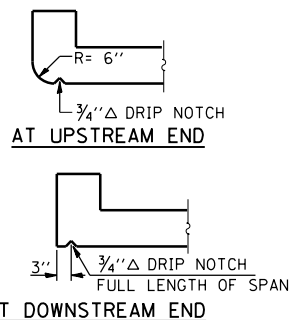
DATE 5/09
 DRAWN BY RJP
 CHECKED BY ADL

\$FILE\$

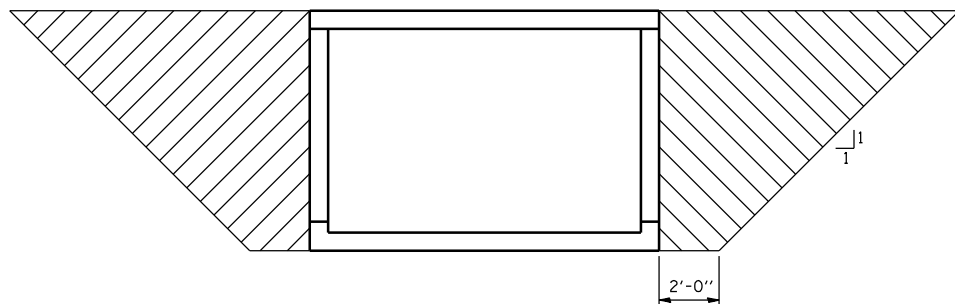
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	359
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

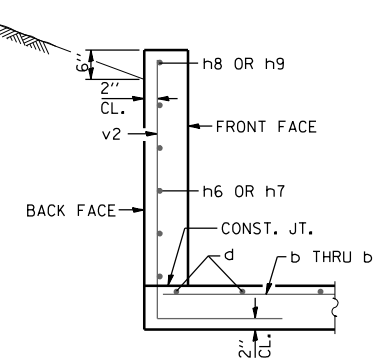


SECTION THRU HEADWALL

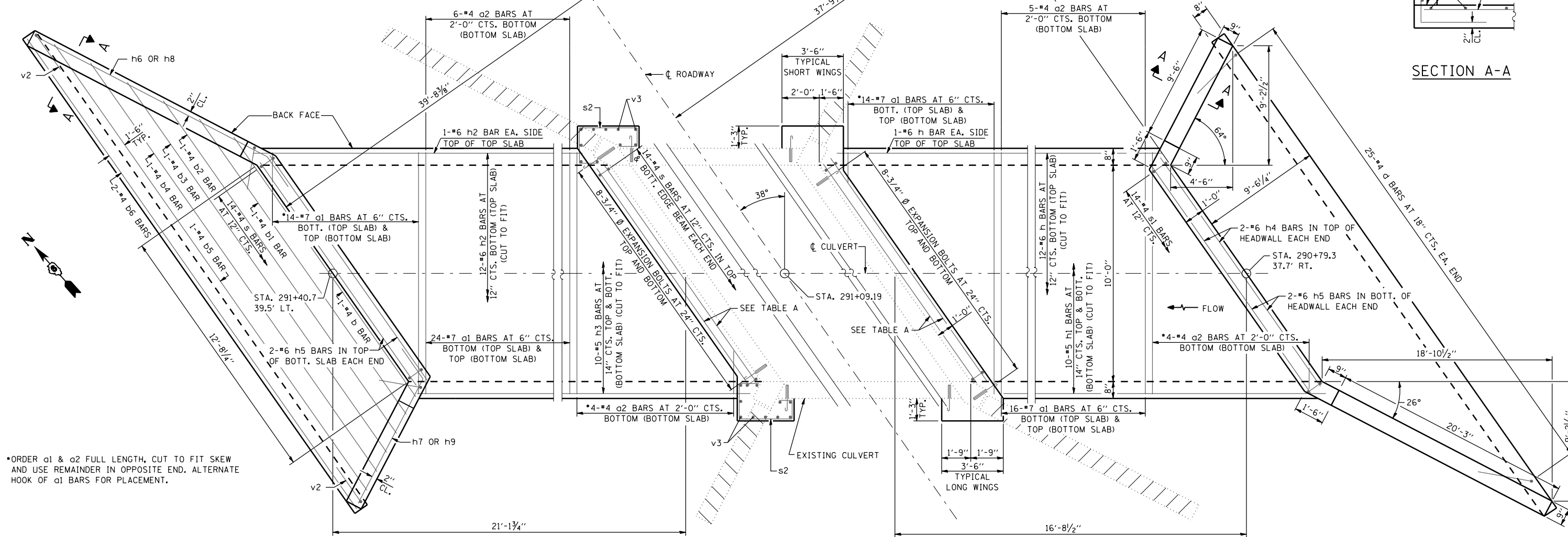


GRANULAR CULVERT BACKFILL DETAIL

NOTE:
 THE GRANULAR CULVERT BACKFILL SHALL EXTEND 2'-0" FROM THE END OF EACH WINGWALL.



SECTION A-A



*ORDER a1 & a2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER IN OPPOSITE END. ALTERNATE HOOK OF a1 BARS FOR PLACEMENT.

NOTE:
 HATCHED AREA INDICATES CONCRETE REMOVAL. COST INCLUDED WITH CONCRETE BOX CULVERTS.

PLAN

TABLE A

LOCATION	NO. OF BARS	BAR
TOP OF TOP EDGE BEAM	2	h4
BOTT. OF TOP EDGE BEAM	2	h5
TOP OF BOTT. EDGE BEAM	2	h5
BOTT. OF BOTT. EDGE BEAM	2	h4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BOX CULVERT EXTENSIONS
 STATION 291+09.19
 TR 18 (HART'S GRAVEL ROAD)

DATE 5/09
 DRAWN BY RJP
 CHECKED BY ADL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	360
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

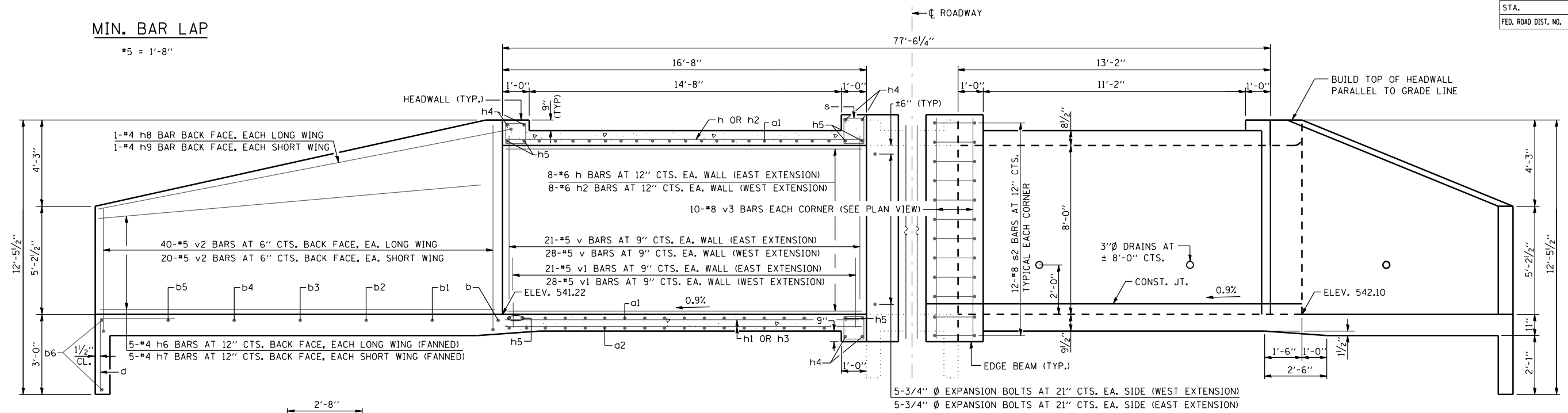
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Mar-30-2011 09:40:54 AM

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MIN. BAR LAP

#5 = 1'-8"



HALF LONG. SECTION

(DIMENSIONS AT RT. L'S TO CL ROADWAY)

HALF ELEVATION

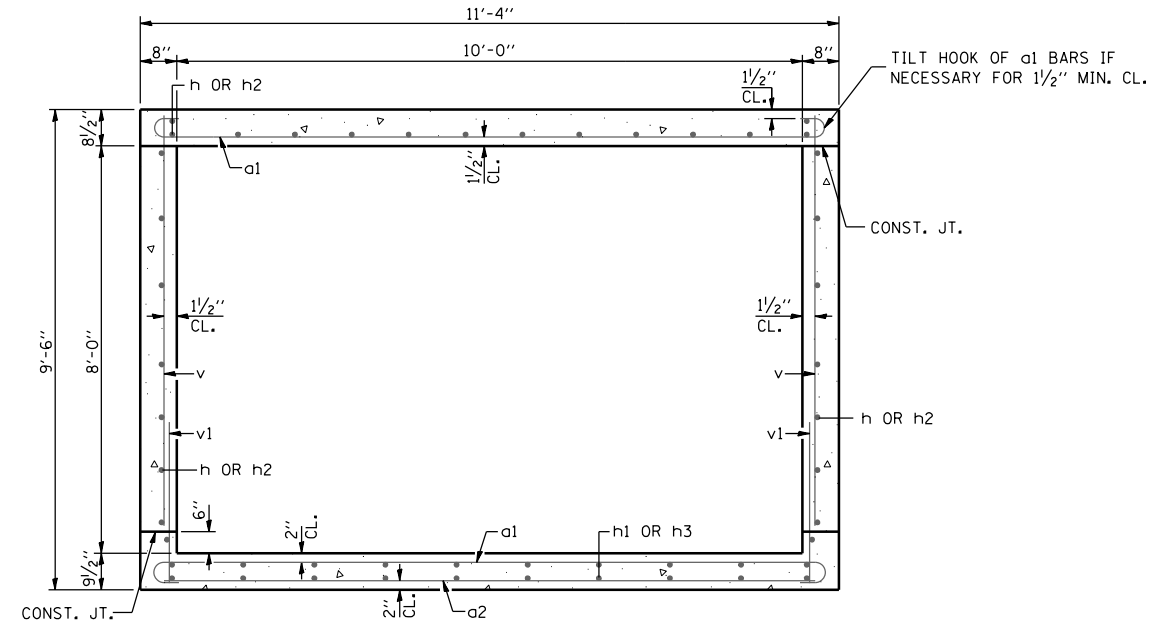
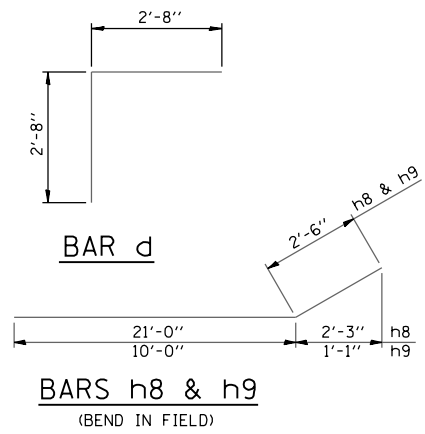
DESIGN STRESSES

(NEW CONSTRUCTION)
 f_y = 60,000 PSI
 f'_c = 3,500 PSI

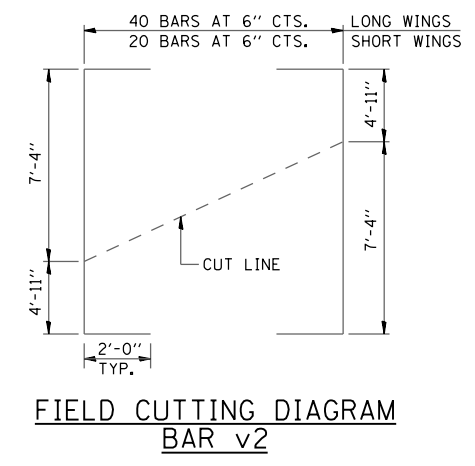
LOADING HS 20-44 & ALT.
 (NEW CONSTRUCTION)

BILL OF MATERIAL

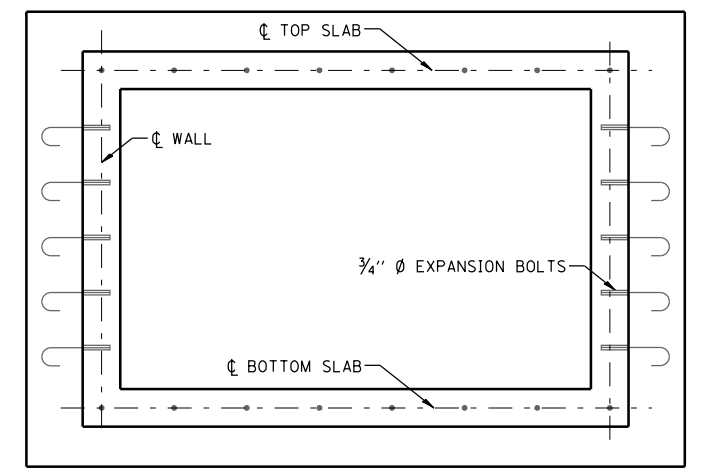
BAR	NO.	SIZE	LENGTH	SHAPE
a1	136	#7	12'-9"	□
a2	19	#4	10'-3"	□
b	2	#4	15'-0"	□
b1	2	#4	18'-7"	□
b2	2	#4	22'-4"	□
b3	2	#4	26'-2"	□
b4	2	#4	30'-0"	□
b5	2	#4	33'-9"	□
b6	4	#4	38'-8"	□
d	50	#4	5'-4"	□
h	30	#6	16'-5"	□
h1	20	#5	16'-5"	□
h2	30	#6	20'-10"	□
h3	20	#5	20'-10"	□
h4	12	#6	12'-10"	□
h5	16	#6	13'-8"	□
h6	10	#4	21'-0"	□
h7	10	#4	10'-0"	□
h8	2	#4	23'-6"	□
h9	2	#4	12'-6"	□
s	70	#4	4'-7"	□
s1	14	#4	4'-5"	□
s2	48	#8	7'-4"	□
v	98	#5	8'-0"	□
v1	98	#5	3'-0"	□
v2	60	#5	16'-3"	□
v3	40	#8	10'-8"	□
REINFORCEMENT BARS			POUND	11,900



SECTION THRU BARREL



FIELD CUTTING DIAGRAM BAR v2



EXPANSION BOLT LOCATION DETAIL

NOTES:

- EXPOSED EDGES SHALL BE BEVELED 3/4".
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR. 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- EXPANSION BOLTS SHALL BE 3/4" Ø HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT DETAILS
 STATION 291+09.19
 TR 18 (HART'S GRAVEL ROAD)

DATE 5/09

DRAWN BY RJP
 CHECKED BY ADL

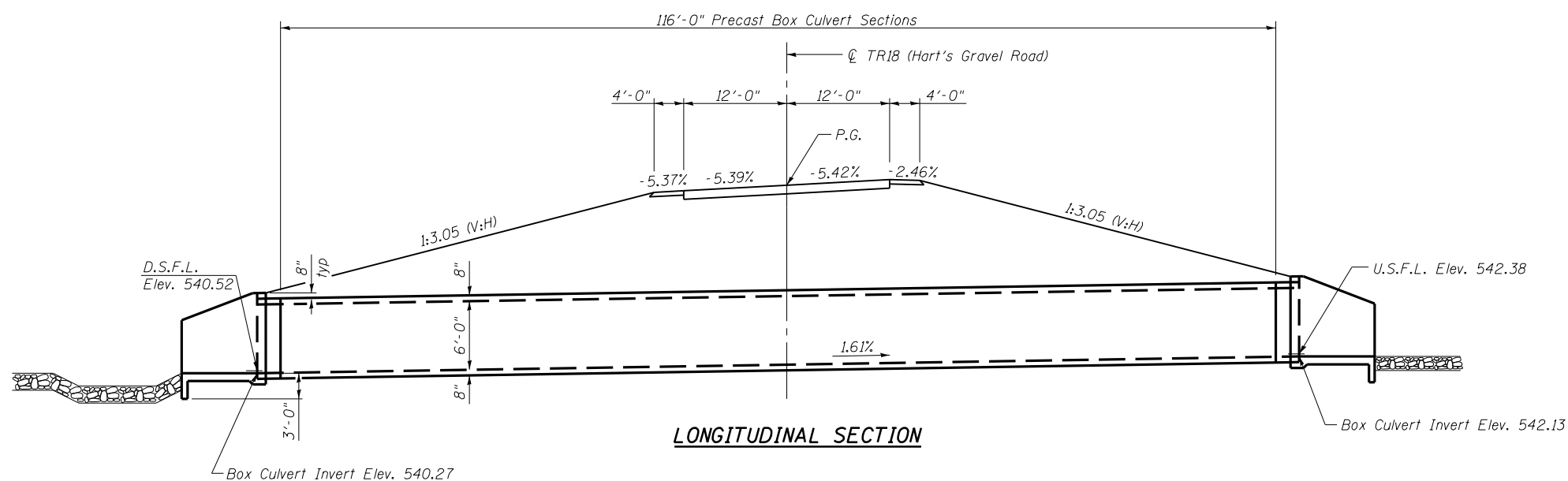
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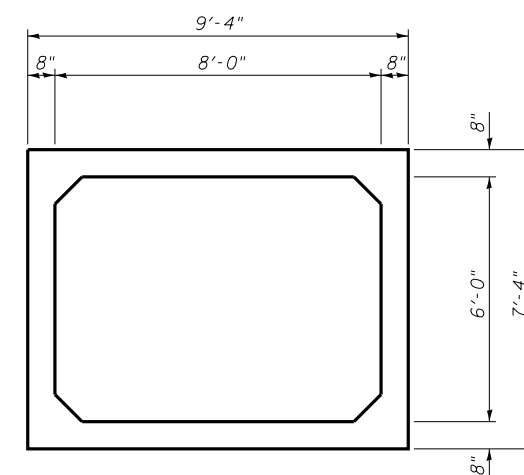
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CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	361
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LONGITUDINAL SECTION



SECTION THRU BARREL

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

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

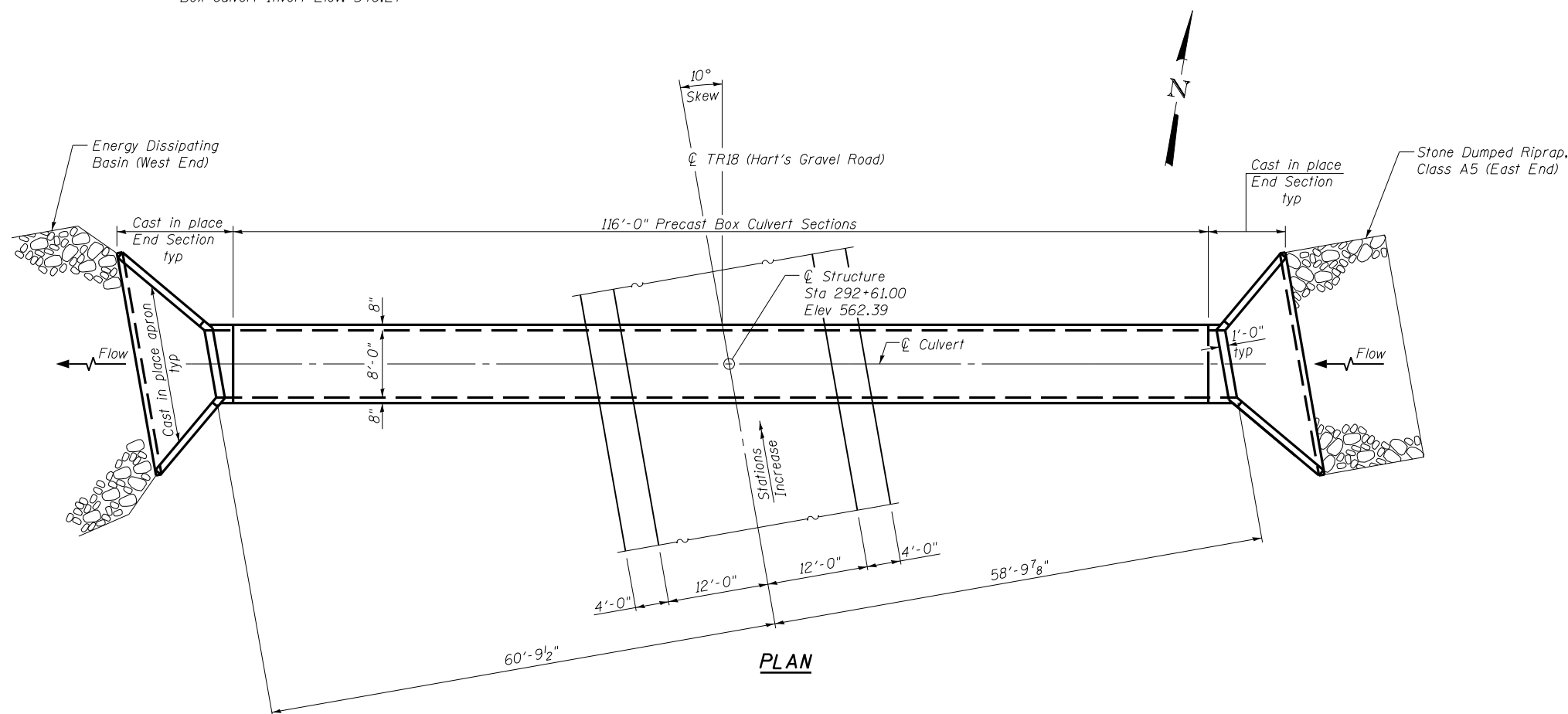
PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Fabric)

Note:
 The precast concrete box culverts shall conform to the requirements of AASHTO M 259.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	29.5
Granular Culvert Backfill	Cu. Yd.	421
Precast Concrete Box Culvert 8'x6' (M259)	Foot	116.0
Reinforcement Bars	Pound	2,390



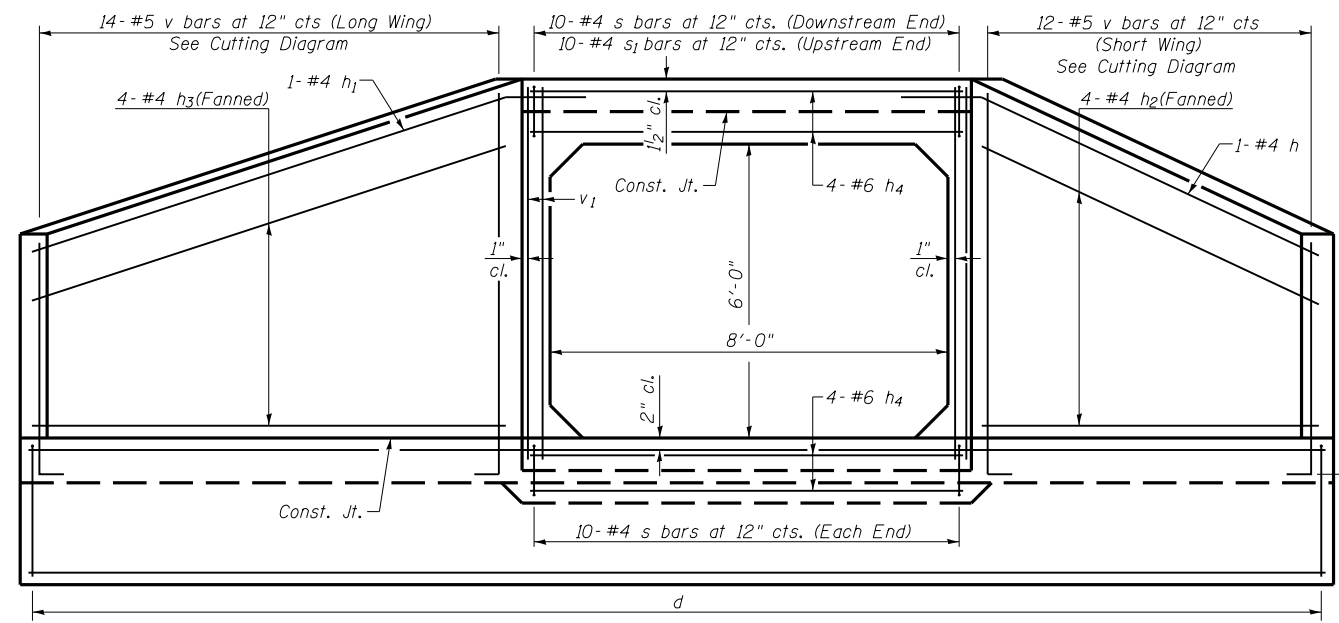
PLAN

REVISIONS	
NAME	DATE

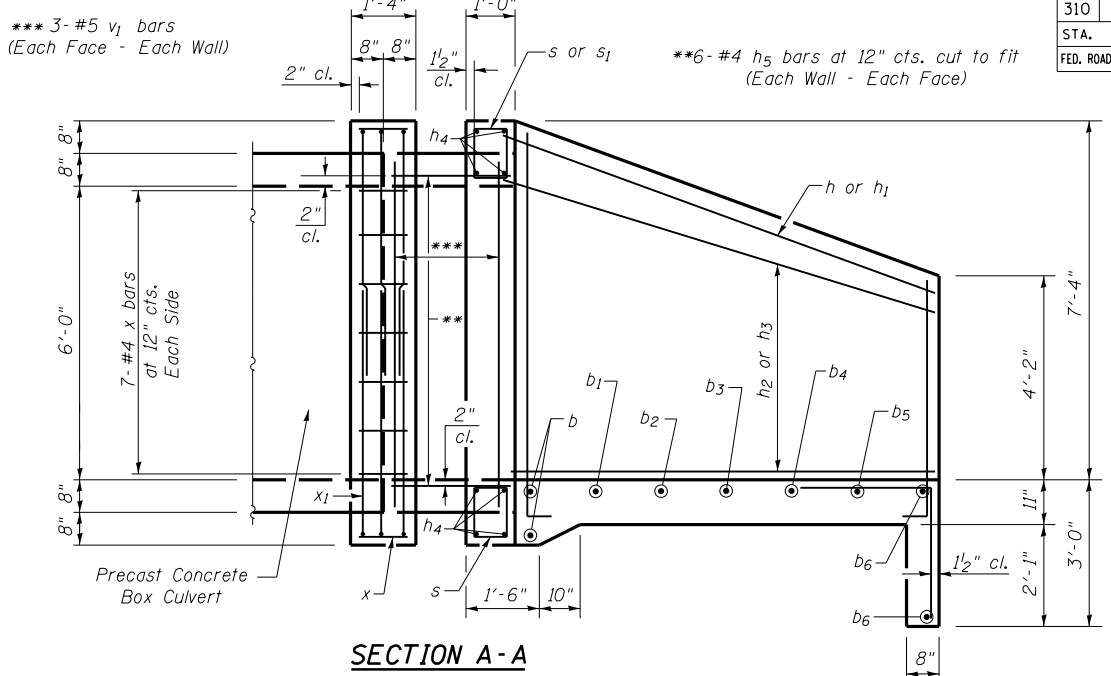
ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 STATION 292+61.00
 TR 18 (HART'S GRAVEL ROAD)

DRAWN BY
 CHECKED BY
 DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	362
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



END ELEVATION



SECTION A-A

NOTES:

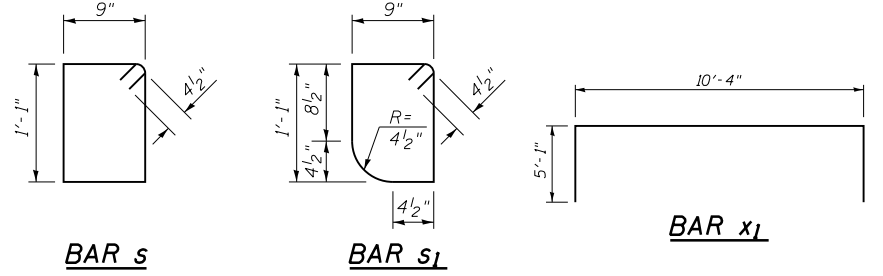
- Bill of Material for 2 end sections.
- Bar dimensions are out to out.
- Not to scale or proper orientation.
- Exposed edges shall be beveled 3/4".
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- Headwall at 10° skew to culvert C.
- Minimum bar laps:
#4 bar = 1'-9"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	12	#6	9'-0"		
b	4	#4	10'-3"		
b1	2	#4	13'-2"		
b2	2	#4	16'-0"		
b3	2	#4	18'-11"		
b4	2	#4	21'-9"		
b5	2	#4	24'-8"		
b6	4	#4	26'-6"		
d	38	#4	5'-4"		
h	2	#4	14'-0"		
h1	2	#4	16'-3"		
h2	8	#4	11'-10"		
h3	8	#4	13'-11"		
h4	16	#6	8'-9"		
h5	32	#4	3'-2"		
s	30	#4	4'-5"		
s1	10	#4	4'-3"		
v	52	#5	16'-8"		
v1	24	#5	7'-0"		
x	72	#4	1'-0"		
x1	12	#4	20'-6"		
Reinforcement Bars				Pound	2,390

*10- #4 h5 bars at 12" cts. cut to fit Bottom (Top Slab) Top (Bottom Slab)

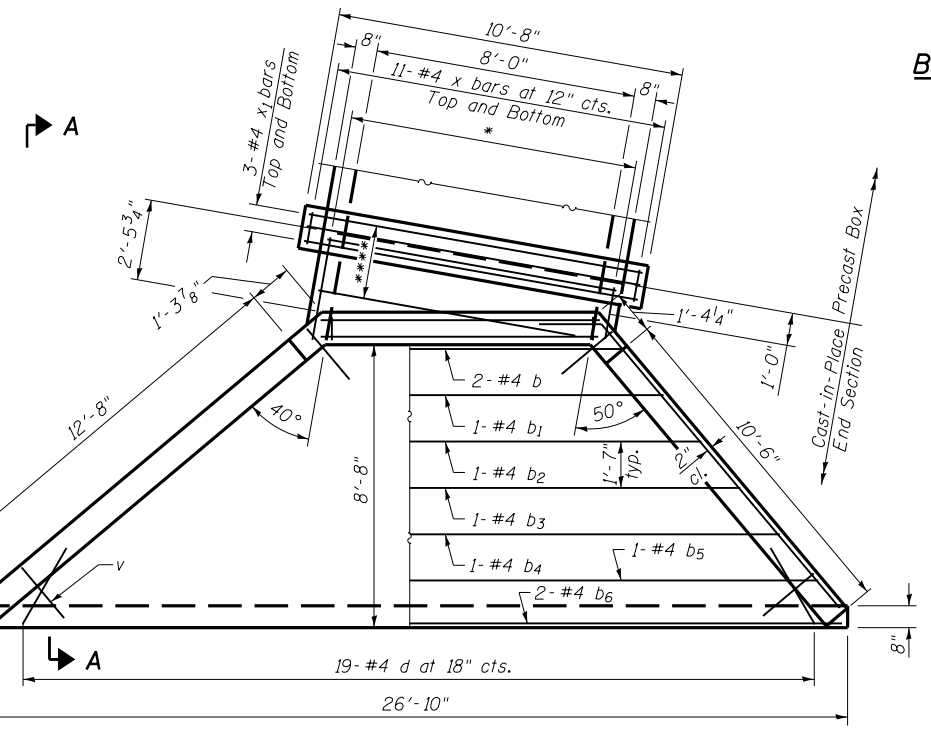
**** 3- #6 a bars cut to fit Bottom (Top Slab) Top (Bottom Slab)



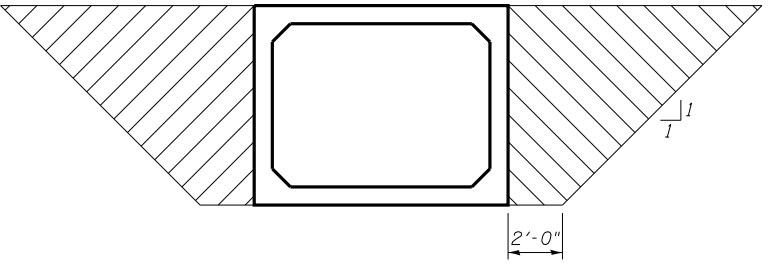
BAR s

BAR s1

BAR x1

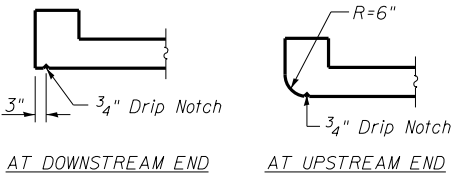


PLAN

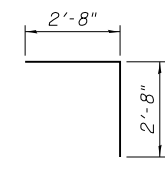


GRANULAR CULVERT BACKFILL DETAIL

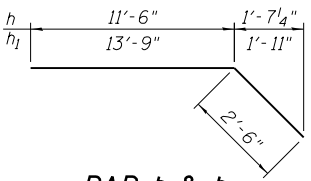
Note:
The Granular Culvert backfill shall extend 2'-0" from the end of each wingwall.



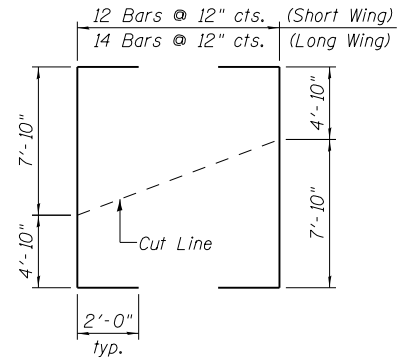
SECTION THRU HEADWALL



BAR d



BAR h & h1
(Bend in field)



FIELD CUTTING DIAGRAM
BAR v

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS
 STATION 292+61.00
 TR 18 (HART'S GRAVEL ROAD)
 DRAWN BY _____
 CHECKED BY _____
 DATE _____

9:41:00 AM

Mar-30-2011 09:41:00AM

FILE\$

9:41:06 AM

Mar-30-2011 09:41:06AM

\$ FILE \$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	364
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 4/20/05

ROUTE FAP 310 DESCRIPTION Culvert over Unnamed Ditch LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. , TWP. , RNG. , PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	<u>N/A</u>		D E P T H H S Qu T	B L O W S	U C S	M O I S T	Surface Water Elev.	<u>601.9</u> ft
Station	<u>866+07</u>						Stream Bed Elev.	<u>601.0</u> ft
BORING NO.	<u>12</u>						Groundwater Elev.:	
Station	<u>866+30</u>						☑ First Encounter	<u>No Encounter</u> ft
Offset	<u>88.0ft RI</u>						☑ Upon Completion	<u>Dry</u> ft
Ground Surface Elev.	<u>601.9</u> ft	<u>(ft)</u>					☑ After <u>24</u> Hrs.	<u>597.9</u> ft

Tan and Lt Gray Moist SILT Ref Classification 8-2									
		1							
		3	1.1			22			
		3	B						
V. Moist		0							
		1	0.4			30			
		1	B						
	596.40								
Gray and Brown Moist CLAY LOAM (Till) Ref Classification 15-1									
		1							
		2	1.0			24			
		2	B						
		0							
		2	0.7			25			
		2	B						
		1							
		2	1.2			24			
		3	B						
		0							
		1	0.6			22			
		2	B						
	586.40								
Gray Moist CLAY LOAM (Till) Ref Classification 15-1									
		1							
		5	3.1			11			
		7	B						
	584.40								

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

File Name: S:\SOS\GINT FILES\MORGAN\US 67 PROPOSED\098-003-04 CAMPBELL-BETHEL SURVEY\DATA Template DTEXT\LOG Date Printed 3/7/11
Latitude 39 Deg 46.271 N Longitude 90 Deg 23.756 W Datum NAD83 Job Number



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 4/20/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. , TWP. , RNG. , PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	<u>N/A</u>		D E P T H H S Qu T	B L O W S	U C S	M O I S T	Surface Water Elev.	<u>604.1</u> ft
Station	<u>877+21</u>						Stream Bed Elev.	<u>603.8</u> ft
BORING NO.	<u>17</u>						Groundwater Elev.:	
Station	<u>877+21</u>						☑ First Encounter	<u>596.0</u> ft
Offset	<u>88.0ft Lt</u>						☑ Upon Completion	<u>599.0</u> ft
Ground Surface Elev.	<u>607.5</u> ft	<u>(ft)</u>					☑ After <u>48</u> Hrs.	<u>605.5</u> ft

V. Dk Gray Moist SILTY CLAY Ref Classification 14-1									
		0							
		1	0.5			29			
		2	B						
		0							
		1	0.9			30			
		2	B						
		0							
		1	0.7			30			
		2	B						
		0							
		1	0.4			30			
		1	B						
	597.00								
Brown and Gray Moist CLAY LOAM (Till) Ref Classification 15-1 Free Water									
		0							
		1	0.9			25			
		2	B						
		0							
		1	0.7			24			
		1	B						
		0							
		1							
		1	0.5			20			
		1	B						
	591.50								
Gray and Brown Moist CLAY LOAM (Till)									
		1							
		1	0.5			20			
		1	B						
		1							
		6	3.7			10			
		8	S-1.3						
	587.50								

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

File Name: S:\SOS\GINT FILES\MORGAN\US 67 PROPOSED\098-003-04 CAMPBELL-BETHEL SURVEY\DATA Template DTEXT\LOG Date Printed 3/7/11
Latitude 39 Deg 46.271 N Longitude 90 Deg 23.756 W Datum NAD83 Job Number

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT BORINGS
FAP 310 (US 67/IL 104)
SHEET 2 OF 9

DATE 3/11
DRAWN BY EBB
CHECKED BY

9:41:06 AM Mar-30-2011 09:41:06AM \$FILE\$



SOIL BORING LOG

Page 1 of 1 Date 4/20/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

Table with columns for Depth (ft), Blows (B), Unconfined Compressive Strength (UCS) (Tst), Moisture (M), Soil Description, and Soil Classification. Includes data for Surface Water Elev. (604.1 ft), Stream Bed Elev. (603.8 ft), and various soil layers like Tan and Lt Gray Moist SILT and Brown and Lt Gray V. Moist SILT.

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

File Name: S:\SOVS\GINT FILES\MORGAN\US 67 PROPOSED\098-003-04 CHAMP-BEHEL SURVEY\DATA Template DREMPLOY.DAT Date Printed 3/17/11 Latitude 39 Deg 46.331' N Longitude 90 Deg 23.753' W Datum NAD83 Job Number



SOIL BORING LOG

Page 1 of 1 Date 4/19/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

Table with columns for Depth (ft), Blows (B), Unconfined Compressive Strength (UCS) (Tst), Moisture (M), Soil Description, and Soil Classification. Includes data for Surface Water Elev. (604.1 ft), Stream Bed Elev. (603.8 ft), and various soil layers like Brown Moist SILTY CLAY and Lt Blue Gray Moist CLAY LOAM.

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

File Name: S:\SOVS\GINT FILES\MORGAN\US 67 PROPOSED\098-003-04 CHAMP-BEHEL SURVEY\DATA Template DREMPLOY.DAT Date Printed 3/17/11 Latitude 39 Deg 46.331' N Longitude 90 Deg 23.748' W Datum NAD83 Job Number

Table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 310, 69-3(3HB), MORGAN, 793, 365

Table with columns: REVISIONS, NAME, DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION CULVERT BORINGS FAP 310 (US 67/IL 104) SHEET 3 OF 9 DATE 3/11 DRAWN BY EBB CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	366
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Mar-30-2011 09:41:07AM



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/19/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	N/A	D	B	U	M	Surface Water Elev.	615.0 ft
Station	922+35	E	L	C	O	Stream Bed Elev.	615.0 ft
BORING NO.	31	P	O	S	I	Groundwater Elev.:	
Station	922+35	T	W	Qu	S	First Encounter	604.0 ft
Offset	88.0ft Lt	H	S	(%)	T	Upon Completion	605.5 ft
Ground Surface Elev.	615.5 ft	(ft)	/6"	(1st)	(%)	After	48 Hrs. 612.5 ft
Dk Gray Moist SILTY CLAY Ref Classification 34-1 Disturbed 1 0.6 32 2 B V. 1 0.5 30 2 B V. Dk Gray V. Moist 1 0.4 32 1 B 0 0 0.1 38 0 B 605.50 Dk Gray and Brown and Gray Moist SILTY CLAY Ref Classification 29-1 Free Water 0 0.1 30 0 B 602.50 Brown and Gray Moist CLAY (Till) 0 1 0.7 27 1 B -15 0 2 1.4 23 3 B 0 1 0.8 22 2 B 595.50							

File Name: S:\SOVS\GINT FILES\MORGAN\US 67 PROPOSED\098-003-04 CHAMP-BETHEL SURVEY\DWI Data Template\098\DWI\DWI Date Printed 3/17/11
Latitude 39 Deg 46.855 N Longitude 90 Deg 24.704 W Datum NAD83 Job Number

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



Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/19/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	N/A	D	B	U	M	Surface Water Elev.	615.0 ft
Station	922+35	E	L	C	O	Stream Bed Elev.	615.0 ft
BORING NO.	32	P	O	S	I	Groundwater Elev.:	
Station	922+35	T	W	Qu	S	First Encounter	No Encounter ft
Offset	0.0ft cL	H	S	(%)	T	Upon Completion	601.1 ft
Ground Surface Elev.	614.6 ft	(ft)	/6"	(1st)	(%)	After	48 Hrs. 610.6 ft
Dk Gray to Brown and Gray Moist SILTY CLAY Ref Classification 34-1 1 1.0 25 2 B Brown and Gray 0 1 0.5 31 2 B 609.10 Tan and Lt Gray V. Moist SILT Ref Classification 34-2 0 0 0.1 29 1 B 0 0 0.4 28 1 B 604.60 -10 Brown and Gray Moist SILTY CLAY Ref Classification 29-1 0 1 1.0 26 2 B 601.60 Brown and Gray Moist CLAY (Till) 0 1 0.7 26 2 B -15 1 2 1.4 22 3 B 597.10 -20							

File Name: S:\SOVS\GINT FILES\MORGAN\US 67 PROPOSED\098-003-04 CHAMP-BETHEL SURVEY\DWI Data Template\098\DWI\DWI Date Printed 3/17/11
Latitude 39 Deg 46.855 N Longitude 90 Deg 24.704 W Datum NAD83 Job Number

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

FILE \$

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT BORINGS
FAP 310 (US 67/IL 104)
SHEET 4 OF 9

DRAWN BY EBB
CHECKED BY
DATE 3/11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	367

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

Mar-30-2011 09:41:07AM

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SOIL BORING LOG

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	DEP T H	B L O W S	U C S Q u	M O I S T %	Surface Water Elev.	Stream Bed Elev.
<u>N/A</u>	<u>922+35</u>					<u>615.0</u> ft	<u>615.0</u> ft
<u>33</u>	<u>922+35</u>					<u>602.5</u> ft	
	<u>88.0ft RI</u>					<u>599.5</u> ft	
	<u>614.0</u> ft	(ft)	/6"	(1st)	(%)	<u>610.0</u> ft	
V. Dk Gray Moist SILTY CLAY Ref Classification 34-1 0 1 0.6 29 2 B 622.00 0 1 0.7 32 1 B 0 1 0.5 33 1 B Dk Gray V. Moist SILTY CLAY 0 0.1 31 0 B -10 Brown and Gray Moist SILTY CLAY Ref Classification 29-1 0 0.2 29 1 B 601.00 Brown and Gray Moist CLAY (Till) 0 2 1.2 24 2 B -15 0 2 1.0 20 2 B 596.50 -20							

File Name: S:\SOILS\DRGT FILES\MORGAN\US 67 PROPOSED\096-003-04 CHAMP-BEHEM SURVEY\DRGT Data Template DRGTMP1.DAT Date Printed: 3/17/11
 Latitude: 38 Deg 46.617' N Longitude: 90 Deg 23.613' W Datum: NAD83 Job Number:

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



SOIL BORING LOG

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	DEP T H	B L O W S	U C S Q u	M O I S T %	Surface Water Elev.	Stream Bed Elev.
<u>N/A</u>	<u>969+05</u>					<u>617.0</u> ft	<u>617.0</u> ft
<u>43</u>	<u>969+05</u>					<u>611.0</u> ft	
	<u>105.0ft LI</u>					<u>611.0</u> ft	
	<u>625.0</u> ft	(ft)	/6"	(1st)	(%)	<u>616.5</u> ft	
Brownish Gray Moist SILTY CLAY Ref Classification 47-1 0 1 0.8 24 2 B 622.00 Tan and Lt Gray V. Moist SILT Ref Classification 42-2 0 1 0.4 30 -5 1 B 600.00 -25 Moist, w/ Silt Loam Seams 1 3 1.2 27 4 B 612.00 1 2 0.7 25 -10 3 B 0 1 0.7 26 2 B 612.00 Brown and Gray Moist SILTY CLAY Ref Classification 42-1 Free Water 0 0.6 27 -15 2 B -35 609.50 Gray and Brown to Gray Moist CLAY (Till) Ref Classification 50-2 0 2 1.3 25 3 B 0 1 0.7 23 -20 2 B -40							

File Name: S:\SOILS\DRGT FILES\MORGAN\US 67 PROPOSED\096-003-04 CHAMP-BEHEM SURVEY\DRGT Data Template DRGTMP1.DAT Date Printed: 3/17/11
 Latitude: 38 Deg 46.617' N Longitude: 90 Deg 23.613' W Datum: NAD83 Job Number:

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

REVISIONS NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
		CULVERT BORINGS
		FAP 310 (US 67/IL 104)
		SHEET 5 OF 9
		DRAWN BY EBB
		CHECKED BY
		DATE 3/11

9:41:08 AM

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	368
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev.	Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.:				
												∇ First Encounter	∇ Upon Completion	∇ After 72 Hrs.		
N/A	969+05					617.0 ft	617.0 ft									
44	969+05					611.8 ft	613.8 ft									
	12.0ft RI						615.8 ft									
	623.3 ft	(ft)	/6"	(1st)	(%)											
Brownish Gray Moist SILTY CLAY						Gray and Brown Moist CLAY (Till)										
Ref Classification 47-1						(continued)										
						602.30		1								
	621.30						600.80	4	3.9		11					
Tan and Lt Gray V. Moist SILT						Gray and Brown Moist CLAY										
Ref Classification 42-2						LOAM (Till)										
				0												
				0	0.1						31					
				0	B											
				0												
				1	0.6						27					
				2	B											
Moist, w/ Silt Loam Seams																
				1	0.6						27					
				2	B											
				0												
				1	0.6						25					
				2	B											
				0												
				1	0.7						25					
				2	B											
				0												
				1	0.8						27					
				2	B											
				0												
				1	0.8						27					
				2	B											
				0												
				2	1.0						25					
				3	B											
Gray and Brown Moist CLAY (Till)						Gray and Brown Moist CLAY (Till)										
				0												
				2	1.0						25					
				3	B											

File Name: S:\SOILS\GINT FILES\MORGAN\US 67 PROPOSED\086-005-04 CHAMPA-BEHEL SURVEY\DATA Template DREMPLE.DAT Date Printed 3/7/11
Latitude 39 Deg 46.838' N Longitude 90 Deg 25.388' W Datum: NAD83 Job Number:

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



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION SEC. TWP. RNG. PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev.	Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.:				
												∇ First Encounter	∇ Upon Completion	∇ After 72 Hrs.		
N/A	969+05					617.0 ft	617.0 ft									
45	969+00					608.4 ft	609.9 ft									
	88.0ft RI						613.9 ft									
	617.4 ft	(ft)	/6"	(1st)	(%)											
Tan and Lt Gray Moist SILT						Gray and Brown Moist CLAY (Till)										
Ref Classification 42-2						(continued)										
						611.40		1	0.4		26					
							600.80	4	3.9		11					
				0												
				1	0.4						26					
				2	B											
				0												
				1	0.4						29					
				1	B											
				0												
				1	0.9						26					
				2	B											
				0												
				1	0.9						26					
				2	B											
				0												
				1	1.0						24					
				2	B											
				0												
				2	1.4						22					
				3	B											
				0												
				1	0.6						22					
				2	B											
				0												
				2	4.2						10					
				9	S-12											
				14	S-12											
				0												
				2												
				9	4.2						10					
				14	S-12											
				0												
				2												
				9	4.2						10					
				14	S-12											

File Name: S:\SOILS\GINT FILES\MORGAN\US 67 PROPOSED\086-005-04 CHAMPA-BEHEL SURVEY\DATA Template DREMPLE.DAT Date Printed 3/7/11
Latitude 39 Deg 46.838' N Longitude 90 Deg 25.388' W Datum: NAD83 Job Number:

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CULVERT BORINGS
FAP 310 (US 67/IL 104)
SHEET 6 OF 9

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DATE 3/11

Mar-30-2011 09:41:09AM

FILE



SOIL BORING LOG

Page 1 of 1
Date 4/18/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. , TWP. , RNG. , PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. N/A	DEP	B	UC	MO	Surface Water Elev.	620.2 ft
Station 979+00 +/-	T	L	S	O	Stream Bed Elev.	620.2 ft
	H	W	Qu	S	Groundwater Elev.:	
BORING NO. 48				T	First Encounter	609.7 ft
Station 978+90					Upon Completion	617.2 ft
Offset 110.0ft R					After	72 Hrs. 617.7 ft
Ground Surface Elev. 621.2 ft	(ft)	/6"	(1st)	(%)		

Dk Gray V. Moist SILTY CLAY Ref Classification 47-1						
	0					
	1	0.4		29		
	1	B				
613.20						
	0					
	1	0.5		28		
	1	B				
Brown and Gray V. Moist SILTY CLAY	0					
	0	0.2		33		
	1	B				
Free Water	0					
	0	0.1		33		
	0	B				
607.20						
Brown and Gray Moist CLAY (Till)	0					
	1	0.9		29		
	2	B				
	0					
	1	0.7		26		
	1	B				
	0					
	1	0.6		25		
	1	B				
601.20						

File Name: S:\SOILS\DRIFT FILES\MORGAN\US 67 PROPOSED\DR-005-04 CHAMP-BETHEL SURVEY\DR Data Template DRTEMPLATE Date Printed 3/7/11
Latitude 39 Deg 46.25' N Longitude 90 Deg 23.73' W Datum NAD83 Job Number

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

CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	369
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SOIL BORING LOG

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Date 4/18/05

ROUTE FAP 310 DESCRIPTION US 67 Soil Survey LOGGED BY M. Tappan

SECTION 69-3 LOCATION . SEC. , TWP. , RNG. , PM

COUNTY Morgan DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. N/A	DEP	B	UC	MO	Surface Water Elev.	620.2 ft
Station 979+00 +/-	T	L	S	O	Stream Bed Elev.	620.2 ft
	H	W	Qu	S	Groundwater Elev.:	
BORING NO. 49				T	First Encounter	606.4 ft
Station 979+10					Upon Completion	Plugged ft
Offset 5.0ft L					After	72 Hrs. 619.4 ft
Ground Surface Elev. 622.9 ft	(ft)	/6"	(1st)	(%)		

Brownish Gray Moist SILT CLAY Ref Classification 47-1						
	1					
	2	1.0		24		
	3	S-12				
	0					
	1	0.6		30		
	2	B				
Brown and Gray	0					
	1	0.8		27		
	2	B				
614.90						
Brown and Gray V. Moist SILTY CLAY	0					
	1	0.5		30		
	1	B				
Free Water	0					
	0	0.2		33		
	1	B				
607.40						
Brown and Gray Moist CLAY (Till)	0					
	0	0.2		32		
	1	B				
Free Water	0					
	2	1.0		25		
	2	B				
	0					
	2	1.4		22		
	2	B				
602.90						

File Name: S:\SOILS\DRIFT FILES\MORGAN\US 67 PROPOSED\DR-005-04 CHAMP-BETHEL SURVEY\DR Data Template DRTEMPLATE Date Printed 3/7/11
Latitude 39 Deg 46.25' N Longitude 90 Deg 23.73' W Datum NAD83 Job Number

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT BORINGS
FAP 310 (US 67/IL 104)
SHEET 7 OF 9
DRAWN BY EBB
CHECKED BY
DATE 3/11

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP 310 Marked: US 67 / IL 104
 Section: 69-3(3HB) Project No.: NA
 County: MORGAN Contract No.: 72667

Starting Station: (Longitude: Latitude:)
 Ending Station: (Longitude: Latitude:)

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Regan Z. Anderson
 (Signature)

3-30-11
 (Date)

Regan Z. Anderson
 (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1st of each construction year and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of new construction of a new four-lane expressway from 0.8 miles east of County Highway 7 (Concord Road) to 1.8 miles east of IL 100 in Morgan County.
2. This contract involves grading and paving the entire 7.3 miles of the four lane expressway, including building on interchange at Concord Road.
3. One two-span structure will be constructed at Concord Road. Several additional small drainage structures will be constructed through the limits of the project.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Excavation will be completed to grade out for proposed roadway ditches and waterways, and to lower the existing ground elevation to meet the proposed roadway grade / vertical alignment.
2. Embankment will be completed in fill areas to raise the existing ground elevation to meet the proposed roadway grade/vertical alignment.
3. Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage across the proposed four lane facility.
4. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, temporary ditch checks, sediment basins, temporary seeding, etc.
5. Placement of permanent erosion control, such as riprap ditch lining, riprap stilling basins, riprap dry dams, excelsior blanket, seeding, etc.
6. Final grading, paving and other miscellaneous items.
7. Stage construction of the above items will be required to maintain traffic as discussed previously herein.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be approx. 1,750 sq miles (2.73 square miles) in which 320 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.
2. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Mauvaise Terre Creek
2. Indian Creek
3. Coon Run
4. Minor tributaries of the above

FILE NAME : P:\077\files\070102\Work\070102\CD\070102\SWPPLAN.DGN	USER NAME : #USER#	DESIGNED -	REVISED - AUG 2007 (JCN)	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ErosionCtrl\SWPPP_standard_sheets.dgn	DRAWN - CADD	REVISED - OCT 2010 (JCN)		310	69-3(3HB)	MORGAN	793	372			
	PLOT SCALE = 41.2487' / IN.	CHECKED - JCN	REVISED -	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 72667		
	PLOT DATE = 3/24/2011	DATE - APRIL 5, 1999	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:
 - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.
 - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
 - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.
3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
 - i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
 - ii. Temporary seed highly erodible areas outside the construction slope limits
 - iii. Construct roadside ditches and provide temporary erosion control systems
 - iv. Temporary divert water around proposed culvert locations
 - v. Build necessary embankment at culvert locations and then excavate and place culvert
 - vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes
- (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
- (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

- (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- (g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.
- (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.
- (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.
2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.
2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 2200 Churchill Road, P.O. Box 19276
 Springfield, IL 62794-9276
 Attn: Compliance Assurance Section

<small>FILE NAME =</small> c:\pwwork\pwwork\sparksgw\10264875\SWPPP standard sheets.dgn	<small>USER NAME =</small> Sparksgw	<small>DESIGNED -</small> DRAWN - CADD	<small>REVISED - AUG 2007 (JCN)</small> REVISED - OCT 2010 (JCN)	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN	<small>F.A.P. RTE.</small> 310	<small>SECTION</small> 69-3(3HB)	<small>COUNTY</small> MORGAN	<small>TOTAL SHEETS</small> 793	<small>SHEET NO.</small> 373
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<small>PLOT DATE =</small> Mar-30-2011 09:43:55AM		<small>DATE -</small> APRIL 5, 1999	<small>REVISED -</small>				<small>FED. ROAD DIST. NO.</small>		<small>ILLINOIS FED. AID PROJECT</small>	
CONTRACT NO. 72667										

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

Route: FAP 310 Marked: US 67 / IL 104
 Section: 69-3(3HB) Project No.: NA
 County: MORGAN Contract No.: 72667

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____
 Title _____
 Name of Firm _____
 Street Address _____
 City, State, Zip _____
 Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

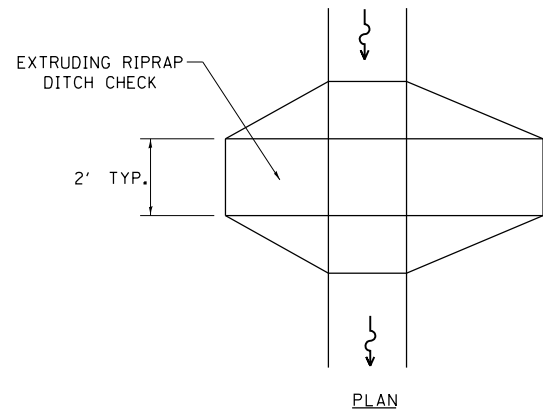
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

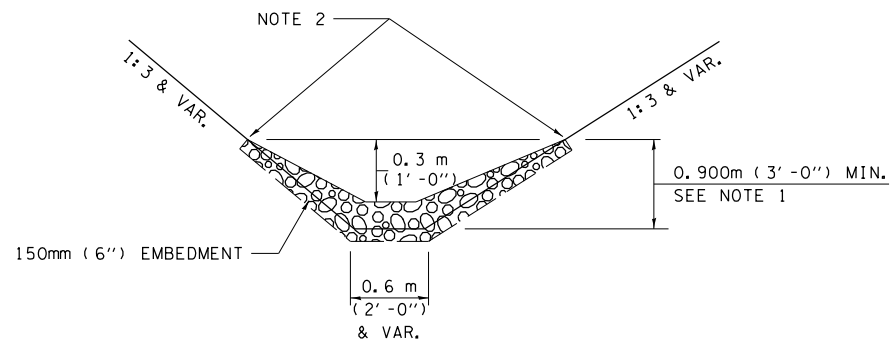
STORM WATER POLLUTION
PREVENTION PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	374
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



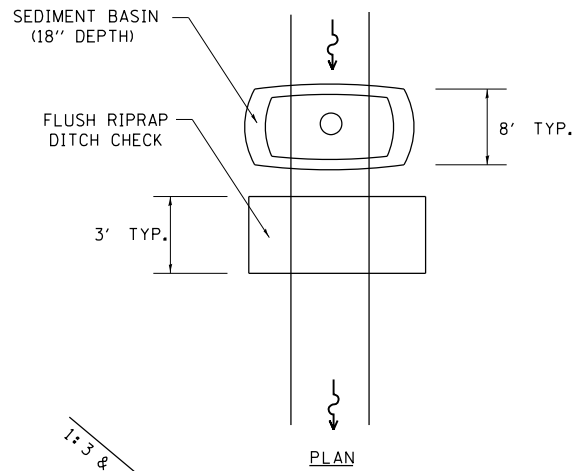
PLAN



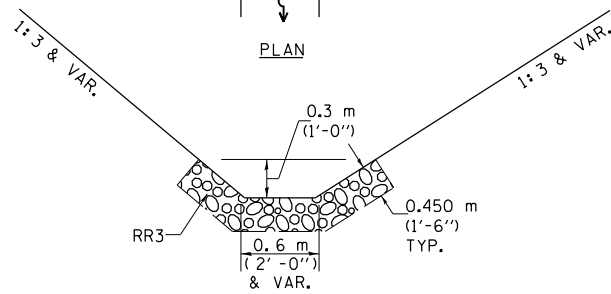
ELEVATION

OPTION 1

(EXTRUDING DITCH CHECK)
RECOMMENDED FOR AREAS
W/ RIPRAP DITCH LINING



PLAN



ELEVATION

OPTION 2

(FLUSH DITCH CHECK)
RECOMMENDED FOR AREAS
W/O RIPRAP DITCH LINING

STONE DUMPED RIPRAP DITCH CHECK

(TYPICAL & OPTIONS 1 & 2
AS DIRECTED BY THE ENGINEER)

NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')]]	
TEMPORARY DITCH CHECKS	
INLET PIPE PROTECTION (I&PP)	
EROSION CONTROL FENCE	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:

All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.

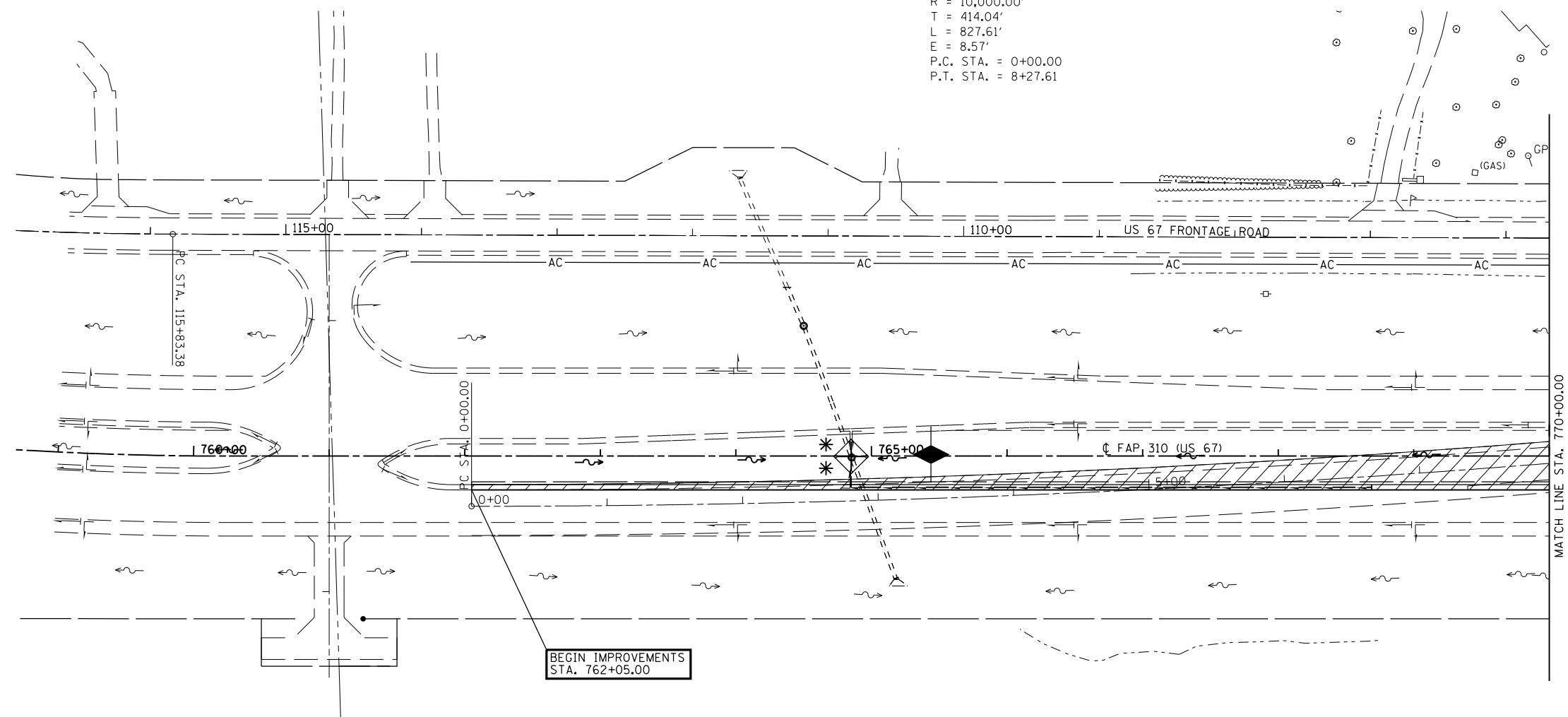
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STORM WATER POLLUTION PREVENTION PLAN			
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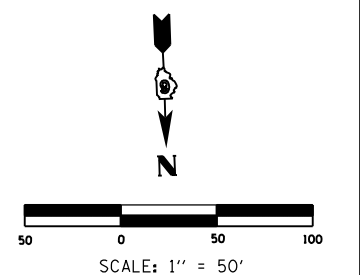
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310	69-3(3HB)	MORGAN	793	375
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EXIST. CURVE TRANS001
 PI STA. = 4+14.04
 $\Delta = 4^\circ 44' 31''$ (LT)
 $D = 0^\circ 34' 23''$
 $R = 10,000.00'$
 $T = 414.04'$
 $L = 827.61'$
 $E = 8.57'$
 P.C. STA. = 0+00.00
 P.T. STA. = 8+27.61



BEGIN IMPROVEMENTS
 STA. 762+05.00

MATCH LINE STA. 770+00.00



FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Mar-30-2011 09:44:03AM	DATE -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA. 762+05.00 TO STA. 770+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

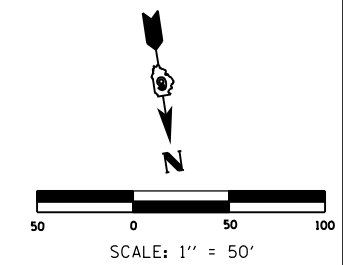
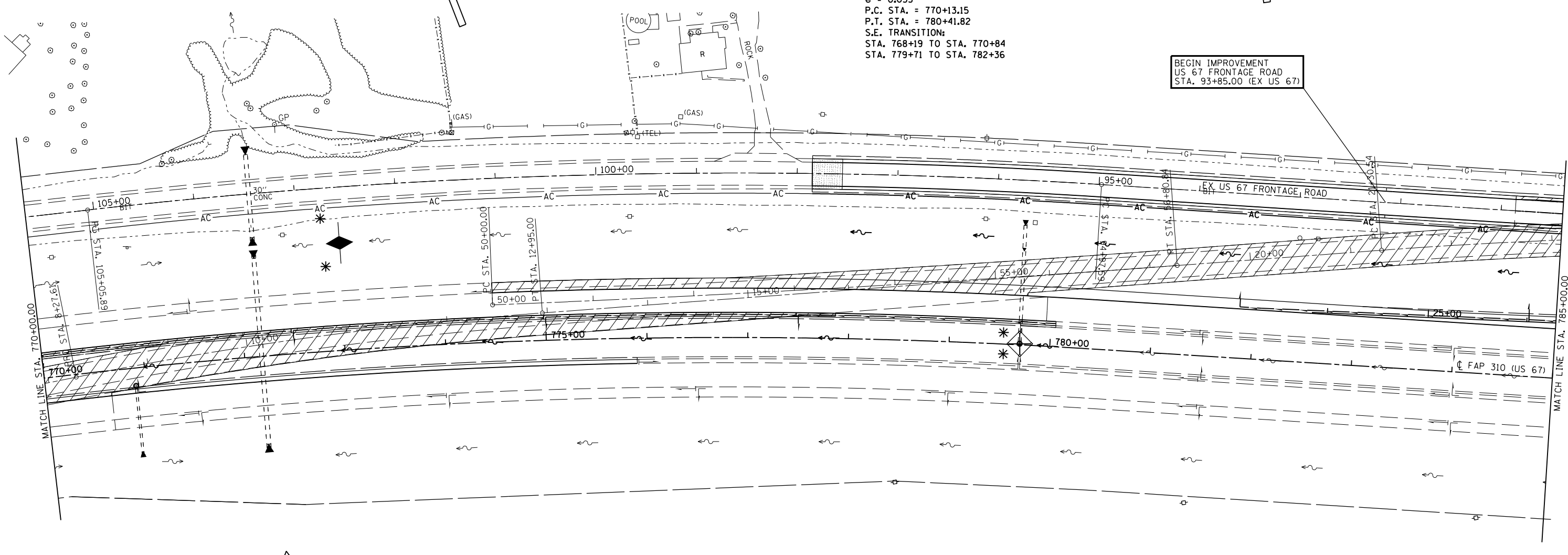
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 PI STA. = 53+40.45
 $\Delta = 1^\circ 57' 02''$ (LT)
 D = 0° 17' 11"
 R = 20,000.00'
 T = 340.45'
 L = 680.84'
 E = 2.90'
 P.C. STA. = 50+00.00
 P.T. STA. = 56+80.84

EXIST. CURVE 307
 PI STA. = 100+03.06
 $\Delta = 10^\circ 08' 04''$ (LT)
 D = 1° 00' 18"
 R = 5,700.43'
 T = 505.47'
 L = 1,008.30'
 E = 22.37'
 P.C. STA. = 94+97.59
 P.T. STA. = 105+05.89

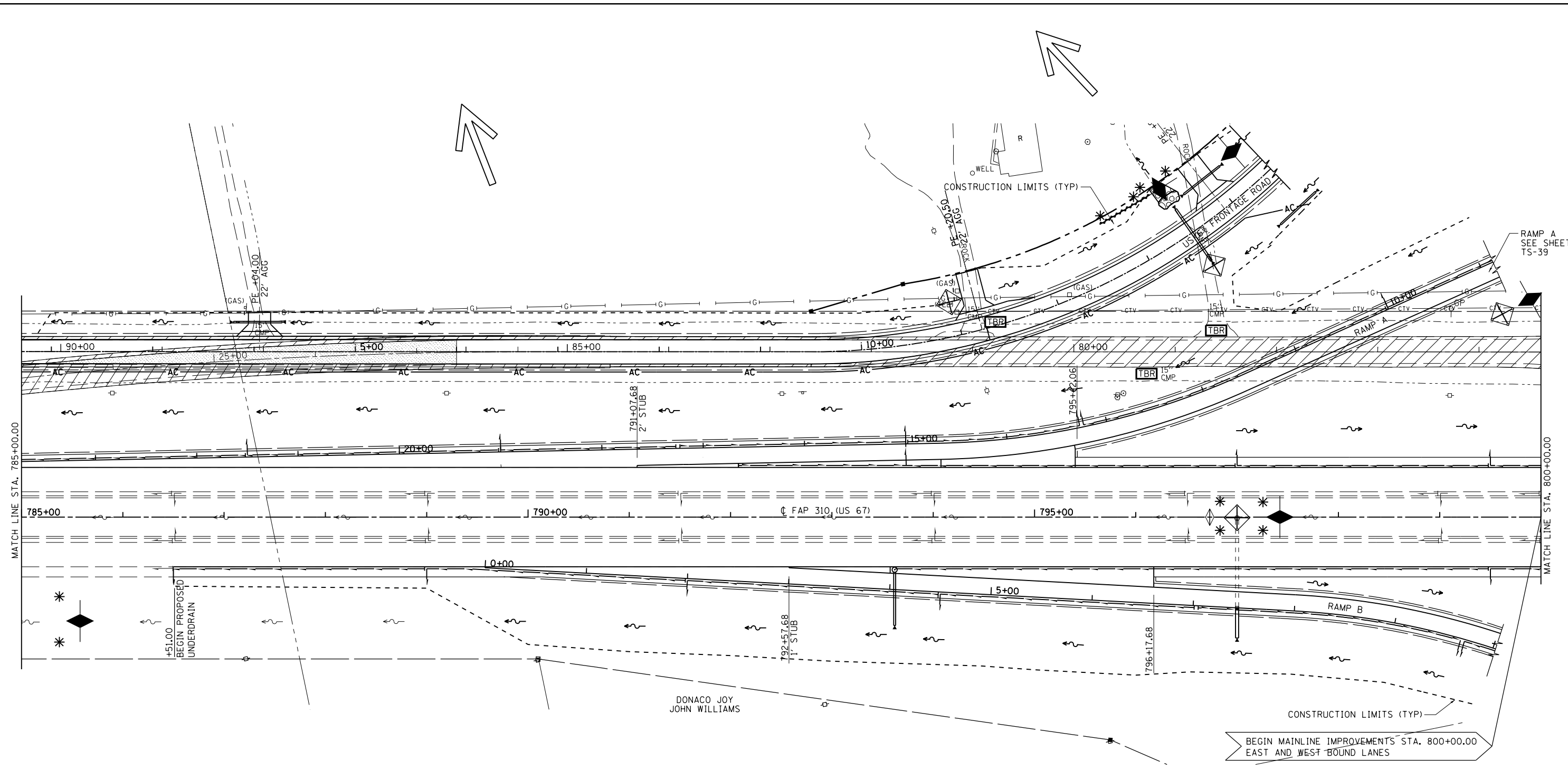
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 PI STA. = 10+61.61
 $\Delta = 7^\circ 08' 29''$ (RT)
 D = 1° 31' 40"
 R = 3,750.00'
 T = 234.00'
 L = 467.39'
 E = 7.29'
 e = 0.033
 P.R.C. STA. = 8+27.61
 P.T. STA. = 12+95.00
 S.E. TRANSITION:
 STA. 7+50 (+1.5%) TO STA. 8+75 (-3.3%)

PROP. CURVE 13
 PI STA. = 775+28.87
 $\Delta = 10^\circ 17' 12''$ (RT)
 D = 1° 00' 00"
 R = 5,729.58'
 T = 515.72'
 L = 1,028.67'
 E = 23.16'
 e = 0.033
 P.C. STA. = 770+13.15
 P.T. STA. = 780+41.82
 S.E. TRANSITION:
 STA. 768+19 TO STA. 770+84
 STA. 779+71 TO STA. 782+36

BEGIN IMPROVEMENT
 US 67 FRONTAGE ROAD
 STA. 93+85.00 (EX US 67)



FILE NAME =	USER NAME = Sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Mar-30-2011 09:44:03AM	DATE -	CHECKED -	REVISED -		CONTRACT NO. 72667							
					SCALE:	SHEET NO.	OF SHEETS	STA. 770+00.00 TO STA. 785+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



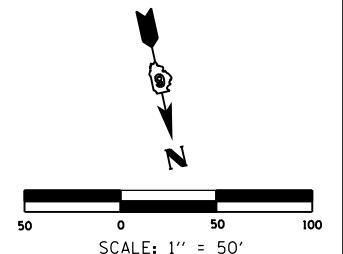
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

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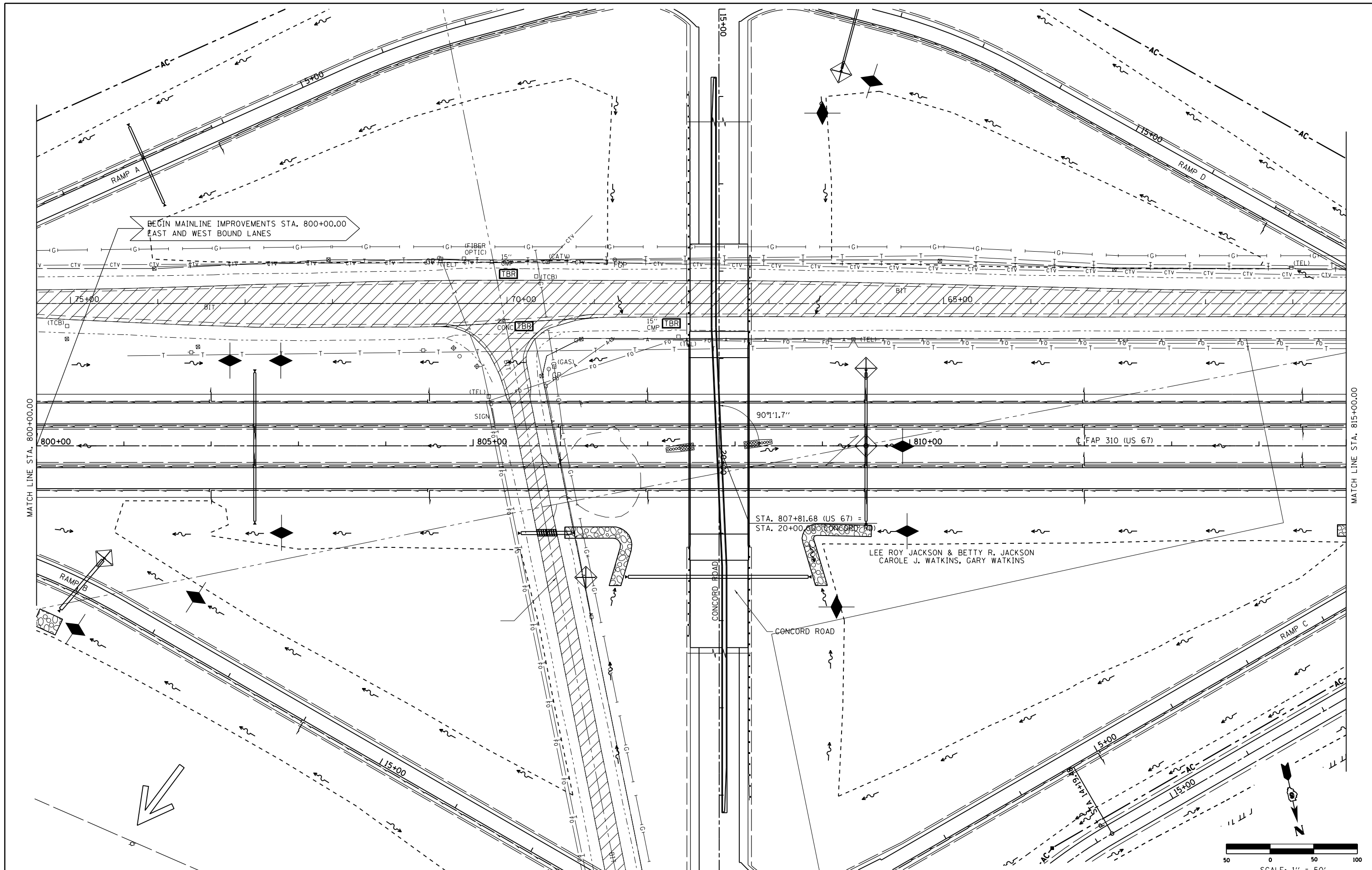
SCALE: SHEET NO. OF SHEETS STA. 785+00.00 TO STA. 800+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	378
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DONACO JOY
JOHN WILLIAMS

BEGIN MAINLINE IMPROVEMENTS STA. 800+00.00
EAST AND WEST BOUND LANES



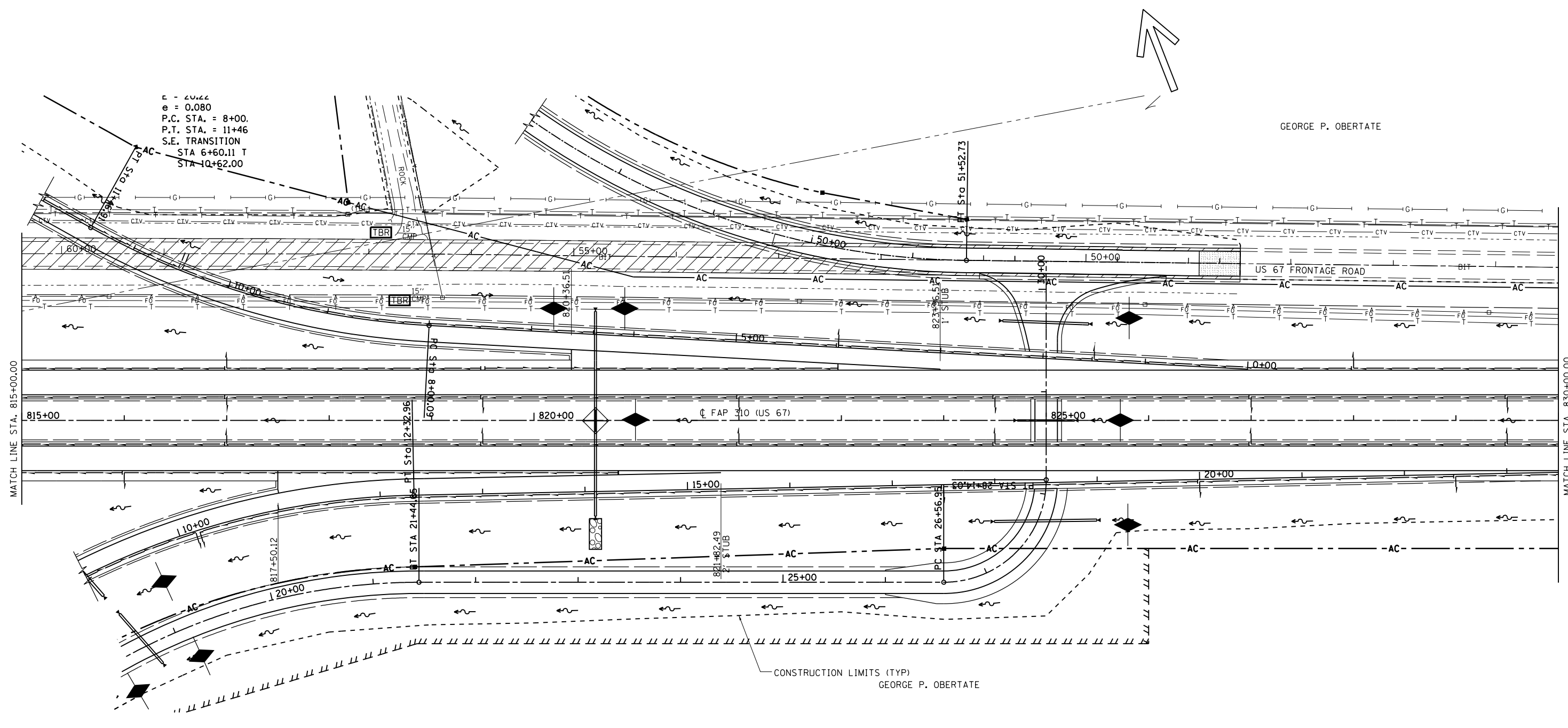
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	PLOT DATE = Mar-30-2011 09:44:05AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

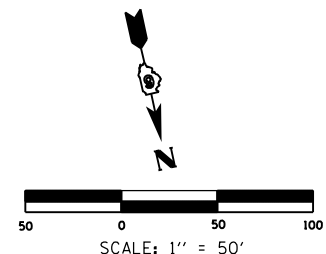
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	379
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. OF SHEETS STA. 800+00.00 TO STA. 815+00.00



GEORGE P. OBERTATE

CONSTRUCTION LIMITS (TYP)
GEORGE P. OBERTATE



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		CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

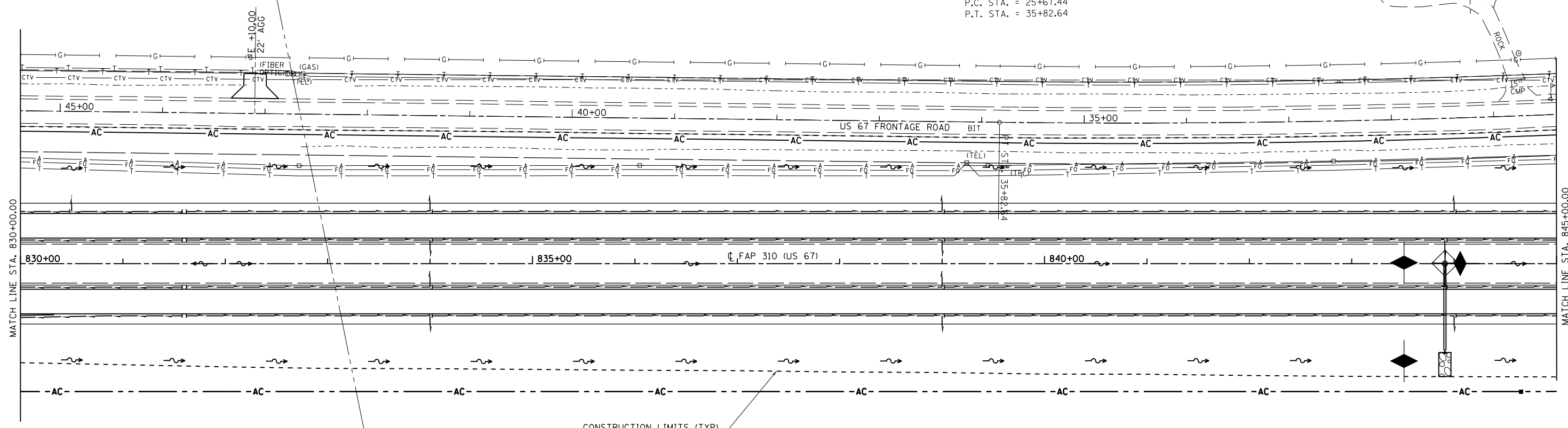
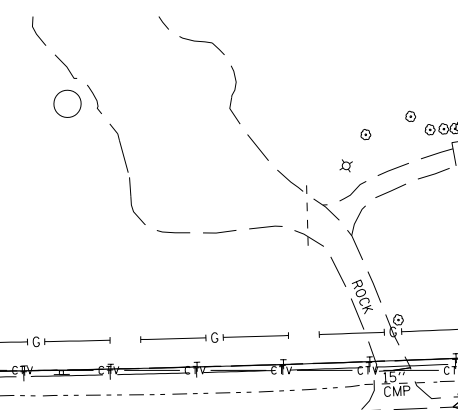
**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 815+00.00 TO STA. 830+00.00

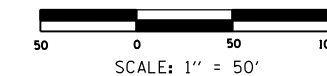
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	380
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GEORGE P. OBERTATE

EXIST. CURVE 305
 PI STA. = 30+75.44
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 $T = 508.00'$
 $L = 1,015.20'$
 $E = 12.30'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. \text{ RUN} = \text{-----}$
 $P.C. \text{ STA.} = 25+67.44$
 $P.T. \text{ STA.} = 35+82.64$



GEORGE P. OBERTATE

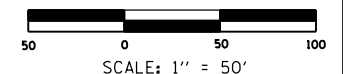
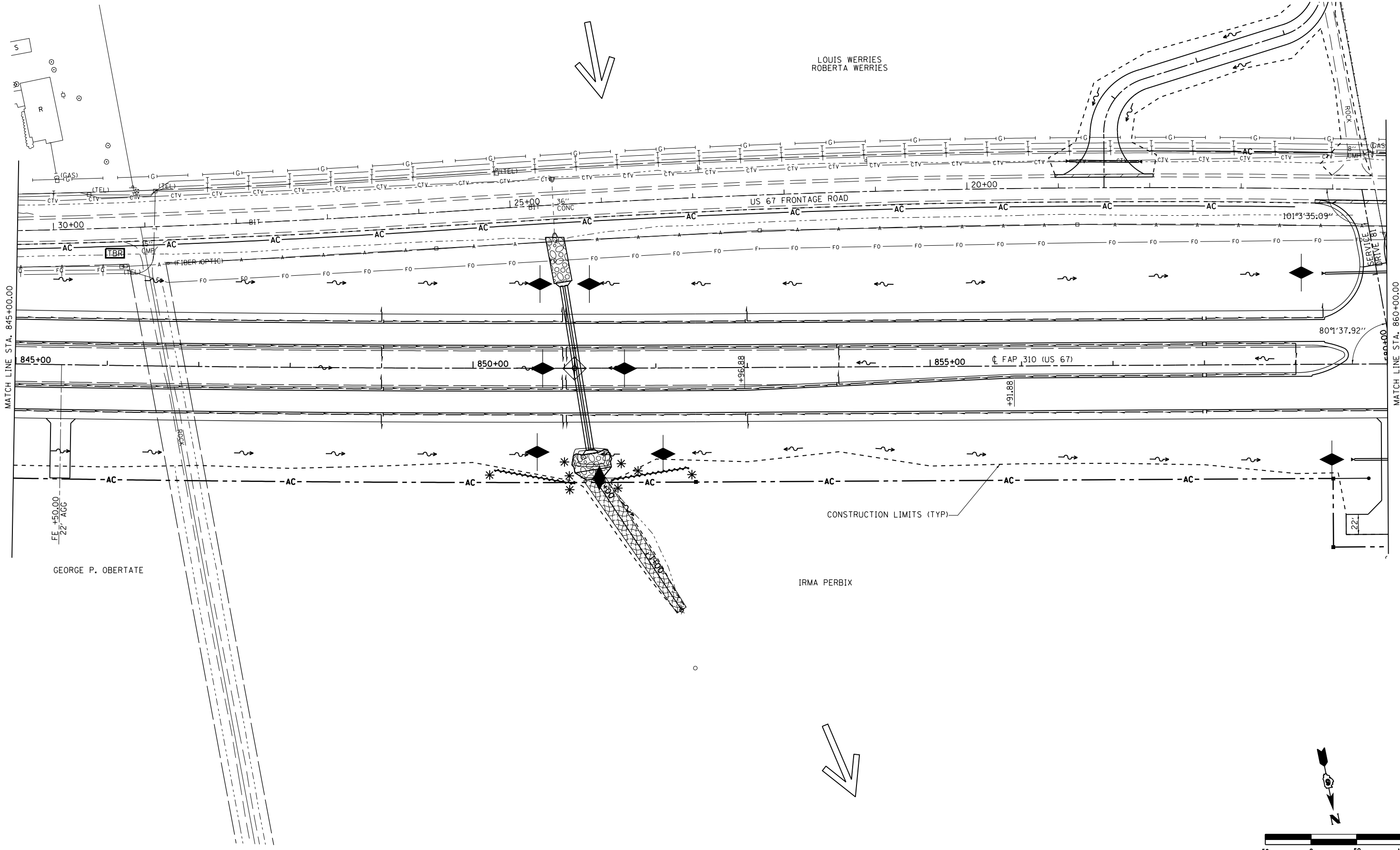


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	PLOT DATE = Mar-30-2011 09:44:06AM	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STORM WATER POLLUTION PREVENTION PLAN			
SCALE:	SHEET NO.	OF SHEETS	STA. 830+00.00 TO STA. 845+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	381
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

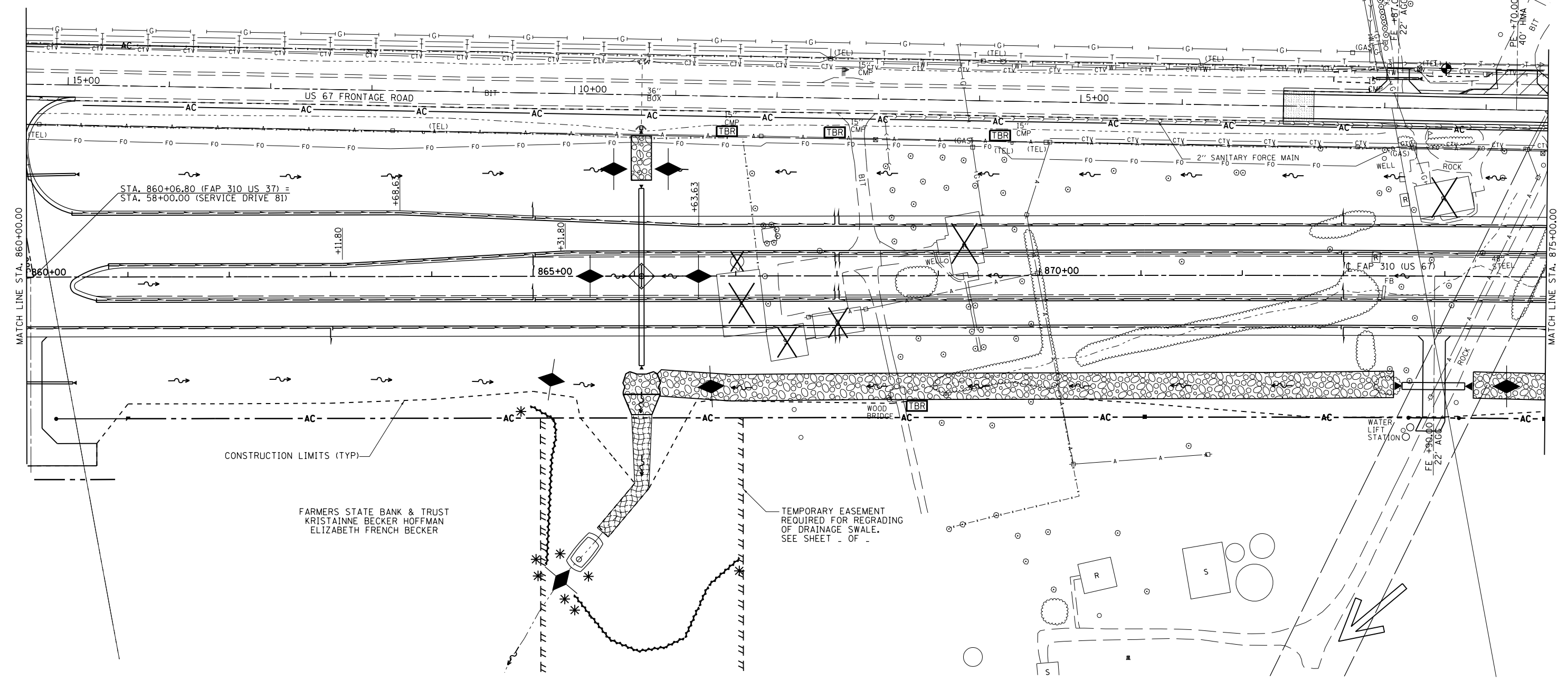
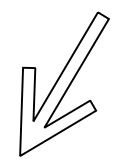
**STORM WATER POLLUTION
PREVENTION PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	382
CONTRACT NO. 72667				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE: SHEET NO. OF SHEETS STA. 845+00.00 TO STA. 860+00.00

FARMERS STATE BANK & TRUST
 KRISTAINNE BECKER HOFFMAN
 ELIZABETH FRENCH BECKER

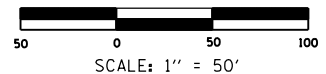
PAUL W. MILLER
 PAMELA S. MILLER



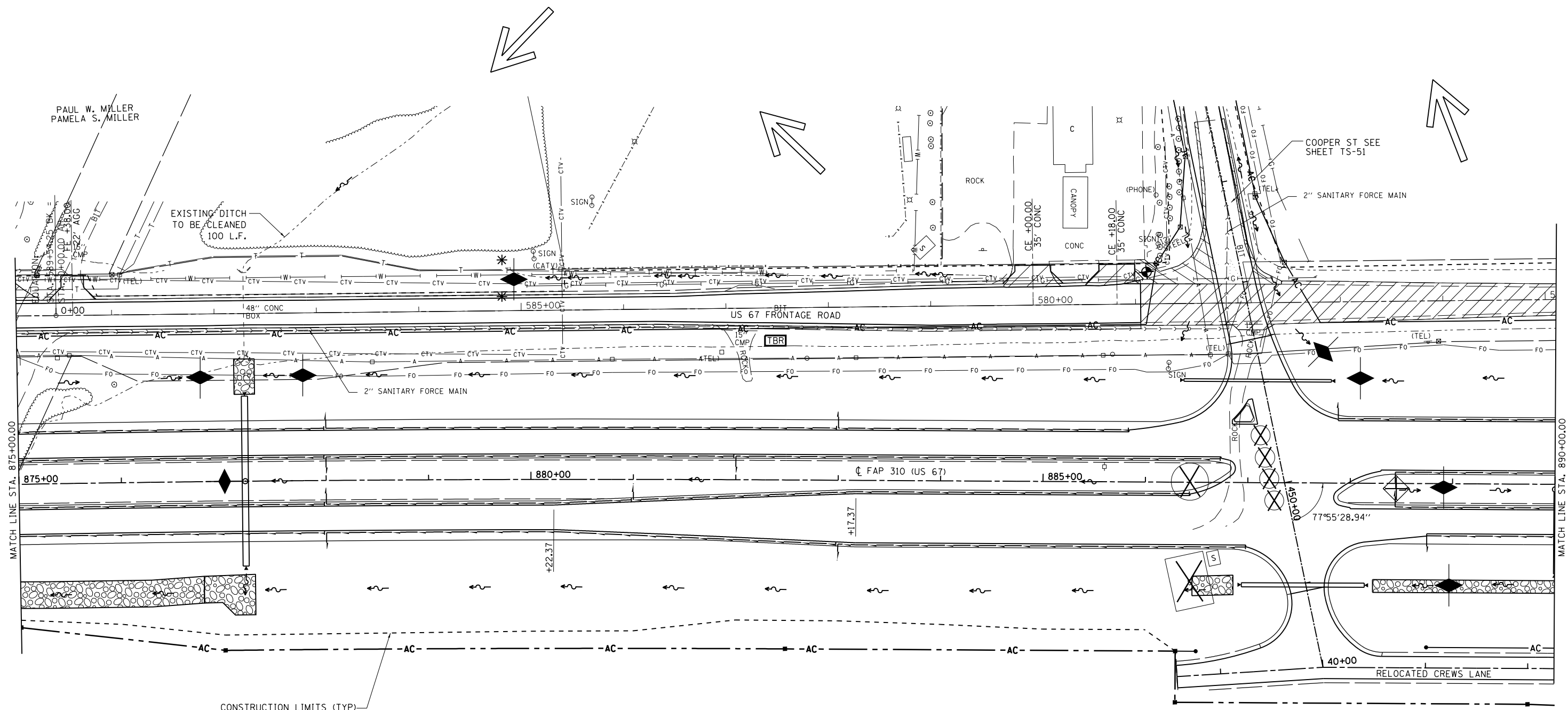
CONSTRUCTION LIMITS (TYP)

FARMERS STATE BANK & TRUST
 KRISTAINNE BECKER HOFFMAN
 ELIZABETH FRENCH BECKER

TEMPORARY EASEMENT
 REQUIRED FOR REGRADING
 OF DRAINAGE SWALE.
 SEE SHEET - OF -



FILE NAME = e:\pwwork\pwwidot\sparksg\1d0264875\EC_Mainline1-14.dgn	USER NAME = Sparksgw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					310	69-3	MORGAN	793	383
PLOT DATE = Mar-30-2011 09:44:07AM	DATE -	REVISED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 860+00.00 TO STA. 875+00.00			CONTRACT NO. 72667					
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



PAUL W. MILLER
PAMELA S. MILLER

COOPER ST SEE
SHEET TS-51

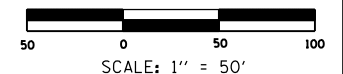
US 67 FRONTAGE ROAD

FAP 310 (US 67)

RELOCATED CREWS LANE

CONSTRUCTION LIMITS (TYP)

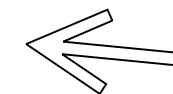
MARIAN JOY FRENCH BECKER



FILE NAME = c:\pwwork\pwwid\sparksg\10264875\EC_Mainline1-14.dgn	USER NAME = Sparksg	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE. 310	SECTION 69-3	COUNTY MORGAN	TOTAL SHEETS 793	SHEET NO. 384
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 72667				
PLOT DATE = Mar-30-2011 09:44:08AM	DATE -	REVISED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. 875+00.00 TO STA. 890+00.00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



MARIAN JOY FRENCH BECKER



STA. 573+55.00
BEGIN IMPROVEMENT
US 67 FRONTAGE RD
PROPOSED BUTT JOINT

LE #32.00
22' AGG

EXISTING PIPE
TO BE PLUGGED

2'x2'
CONC BOX
570+00
US 67 FRONTAGE ROAD

ABSH STREET

18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

(TEL) 18" CONC

MATCH LINE STA. 890+00.00

890+00

895+00

900+00

FAP 310 (US 67)

MATCH LINE STA. 905+00.00



RELOCATED CREWS LANE

145+00

150+00

30:1 TAPER

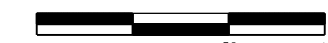
30:1 TAPER

EXISTING ROADWAY
TO BE REGRADED

CONSTRUCTION LIMITS (TYP)



MARIAN JOY FRENCH BECKER



SCALE: 1" = 50'

FILE NAME =	USER NAME = Sparksgw	DESIGNED -	REVISED -
c:\pwwork\pwwork\sparksgw\10264875\EC_Mainline1-14.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION
PREVENTION PLAN

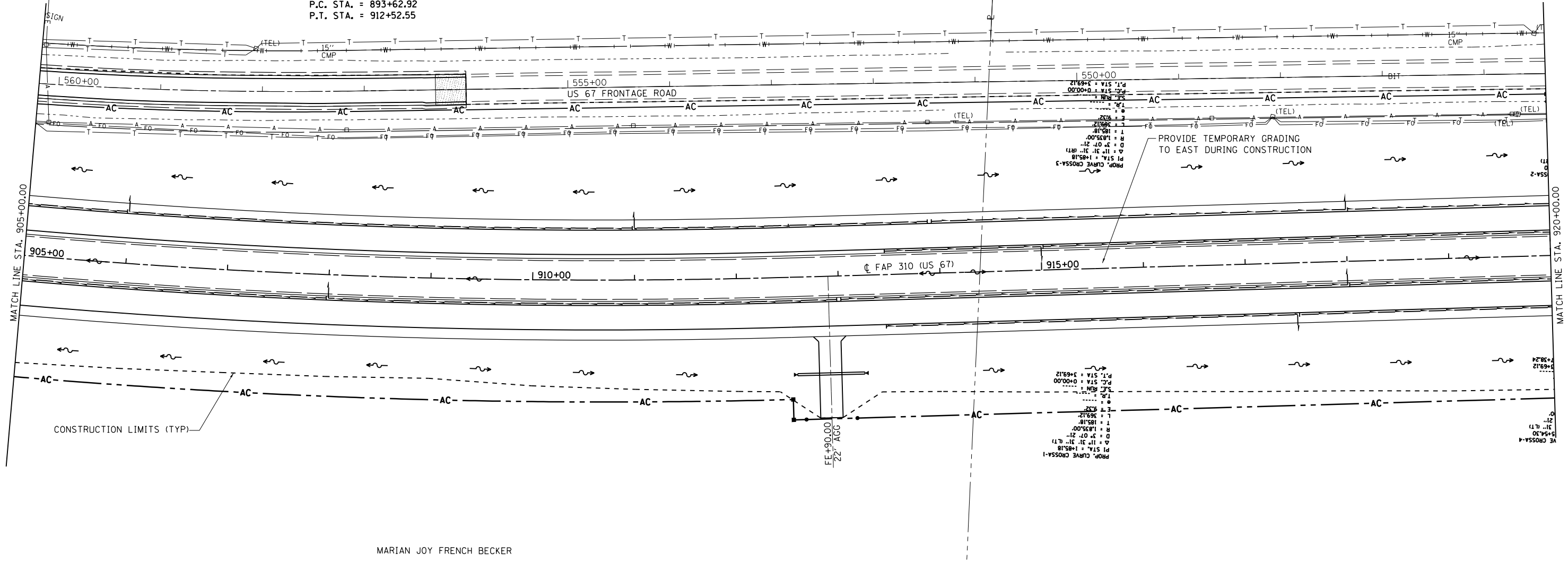
SCALE: SHEET NO. OF SHEETS STA. 890+00.00 TO STA. 905+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	385
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

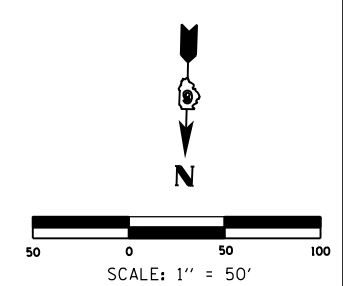
PROP. CURVE MLE15BR2
 PI STA. = 903+14.32
 $\Delta = 16^\circ 30' 00''$ (LT)
 $D = 0^\circ 52' 23''$
 $R = 6,561.67'$
 $T = 951.40'$
 $L = 1,889.62'$
 $E = 68.61'$
 $e = 0.031$
 $T.R. = 45$
 $S.E. RUN = 138$
 $P.C. STA. = 893+62.92$
 $P.T. STA. = 912+52.55$

MARIAN JOY FRENCH BECKER

HOBART F. RIGG (REVOCABLE TRUST)
 PHYLLIS A. RIGG (REVOCABLE TRUST)



MARIAN JOY FRENCH BECKER



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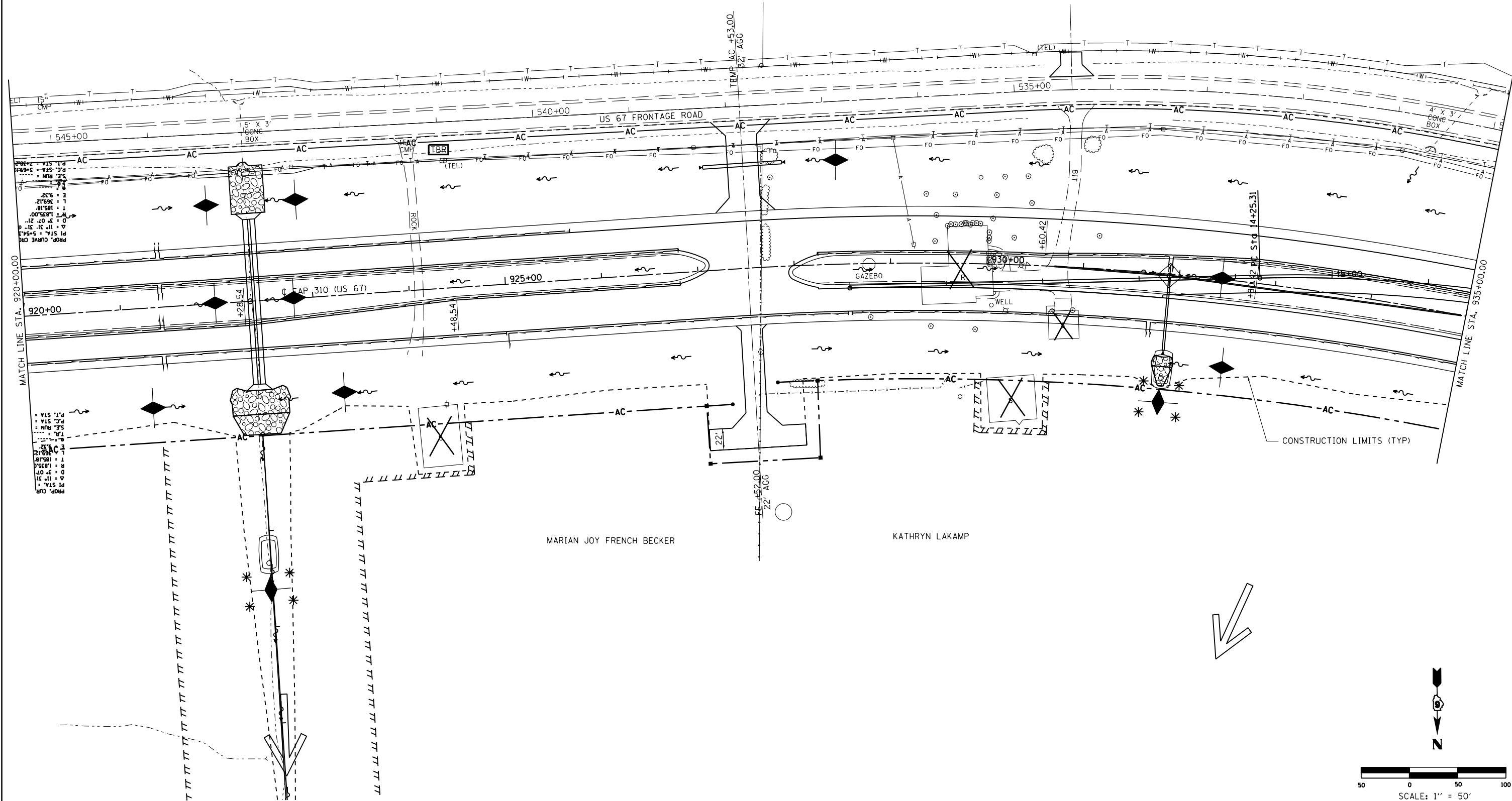
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STORM WATER POLLUTION PREVENTION PLAN			
SCALE:	SHEET NO.	OF SHEETS	STA. 905+00.00 TO STA. 920+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	386
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

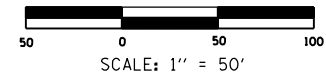
HOBART F. RIGG (REVOCABLE TRUST)
 PHYLLIS A. RIGG (REVOCABLE TRUST)

KATHRYN LAKAMP



MARIAN JOY FRENCH BECKER

KATHRYN LAKAMP



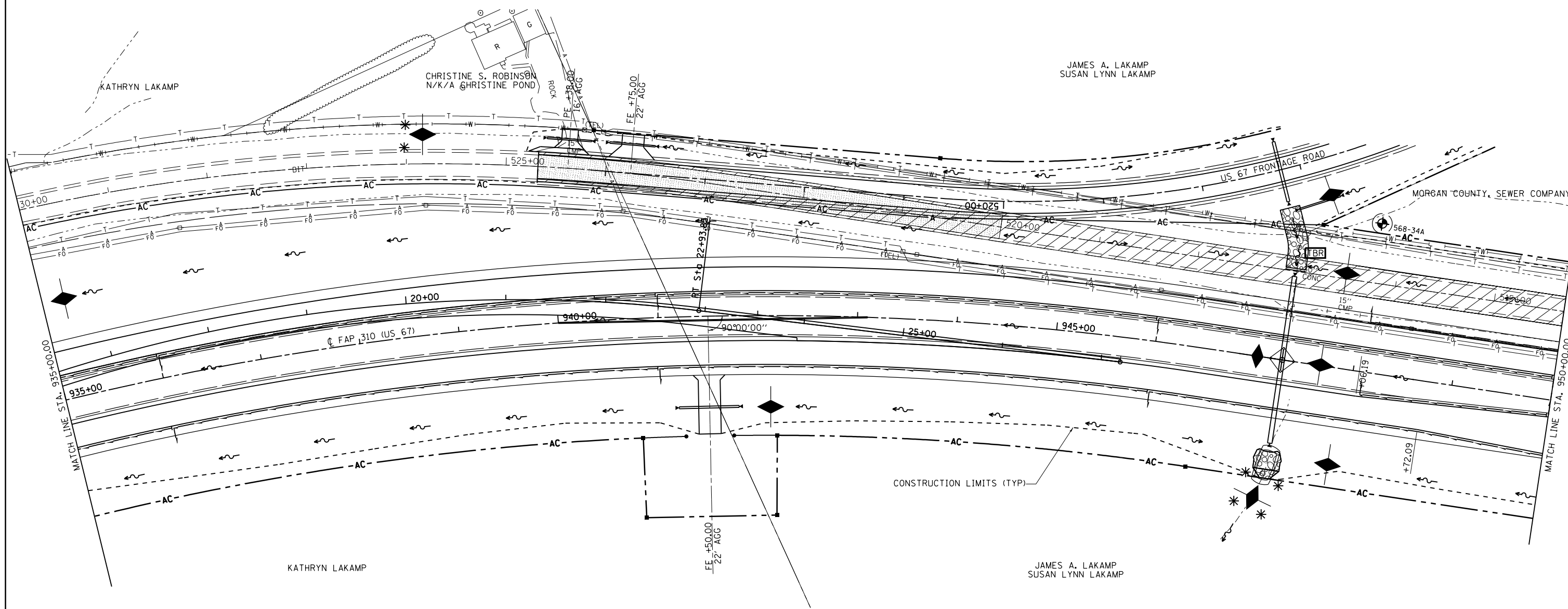
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	PLOT DATE = Mar-30-2011 09:44:10AM	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
 PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 920+00.00 TO STA. 935+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	387
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



JAMES A. LAKAMP
SUSAN LYNN LAKAMP

JAMES A. LAKAMP
SUSAN LYNN LAKAMP

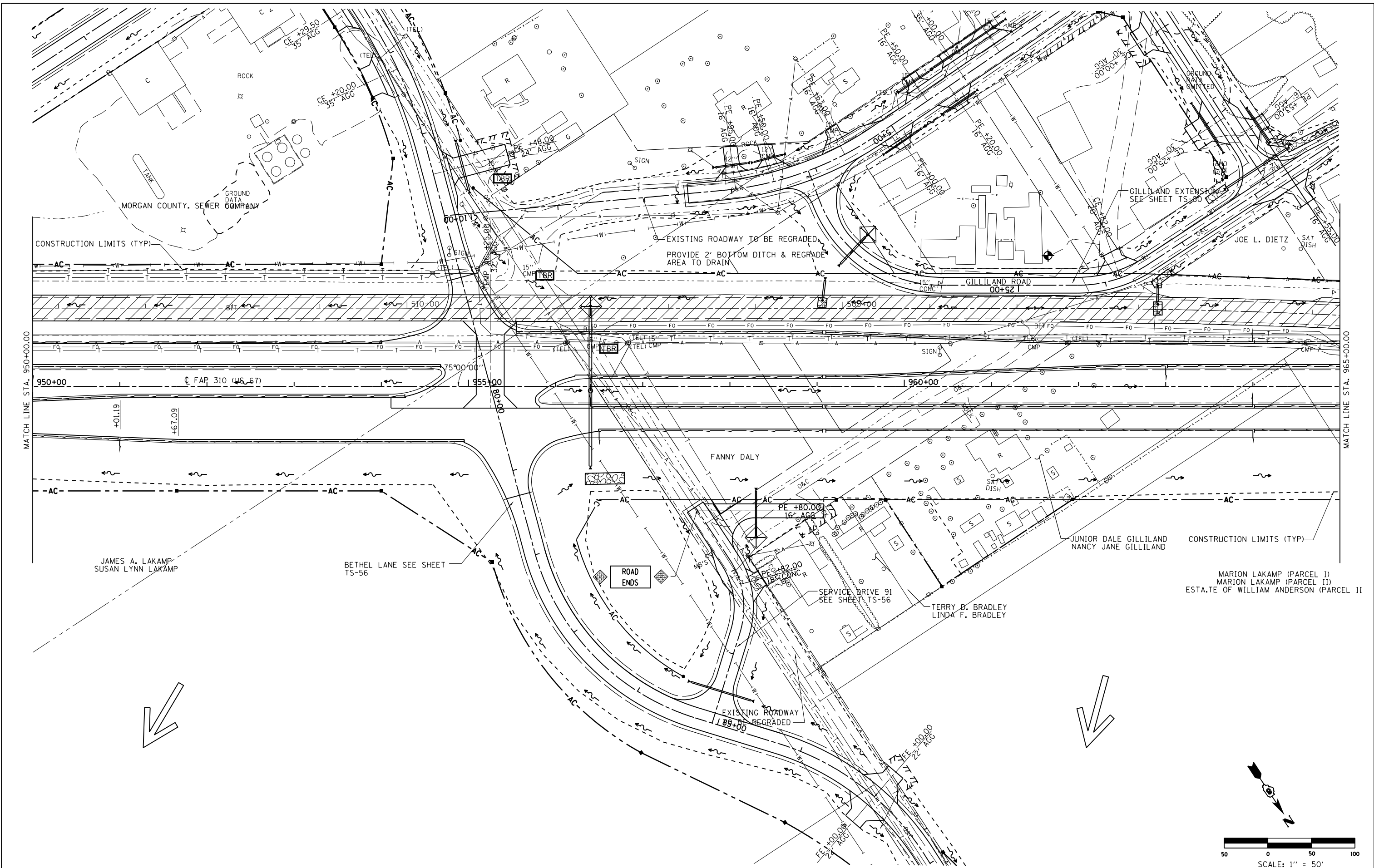
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	PLOT DATE = Mar-30-2011 09:44:10AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

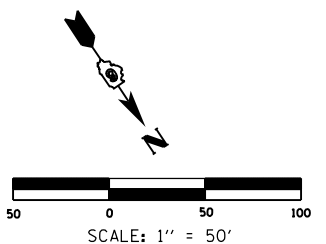
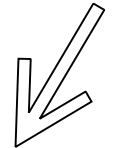
SCALE: SHEET NO. OF SHEETS ST 935+00.00 TO ST 950+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	388
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 950+00.00

MATCH LINE STA. 965+00.00



FILE NAME =	USER NAME = Sparksgw	DESIGNED -	REVISED -
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PLOT DATE = Mar-30-2011 09:44:11AM		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 950+00.00 TO STA. 965+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3	MORGAN	793	389
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CHARLES F. MOWRY
MARY R. MOWRY
(CHARLES F. MOWRY REVOCABLE TRUST)

JOE L. DIETZ

CONSTRUCTION LIMITS (TYP)

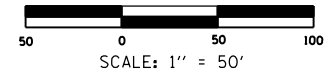
STA. 975+50.00 (FAP 310 US 67)
STA. 610+00.00 (SERVICE DRIVE 93)

CONSTRUCTION LIMITS (TYP)

CHARLES F. MOWRY
MARY R. MOWRY
(CHARLES F. MOWRY REVOCABLE TRUST)

MATCH LINE STA. 965+00.00

MATCH LINE STA. 980+00.00



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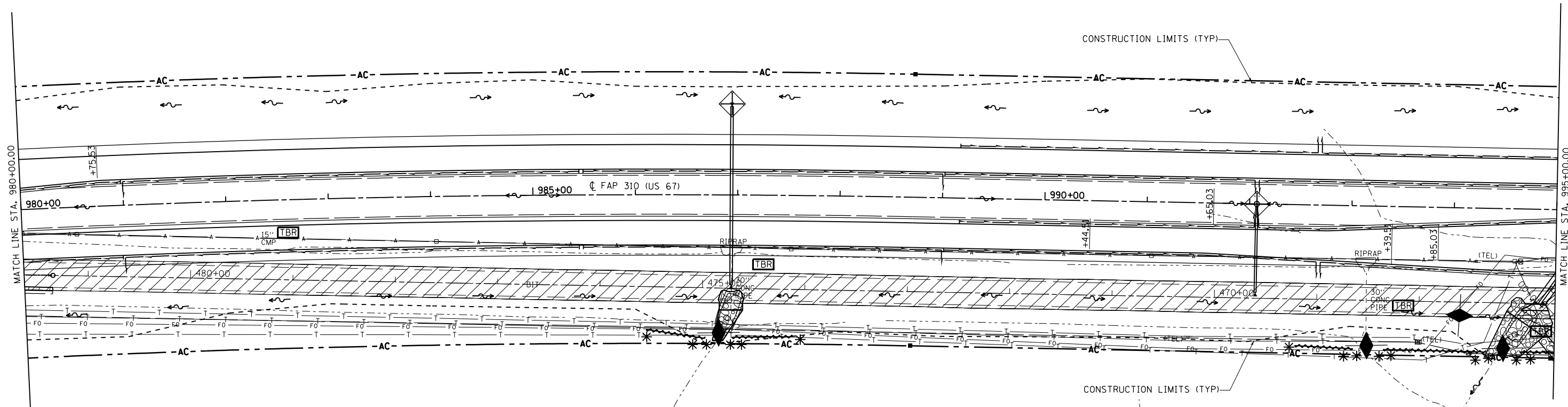
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

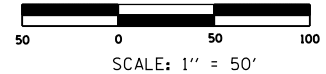
SCALE: SHEET NO. OF SHEETS STA. 965+00.00 TO STA. 980+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	390
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CHARLES F. MOWRY
 MARY R. MOWRY
 (CHARLES F. MOWRY REVOCABLE TRUST)



CHARLES F. MOWRY
 MARY R. MOWRY
 (CHARLES F. MOWRY REVOCABLE TRUST)

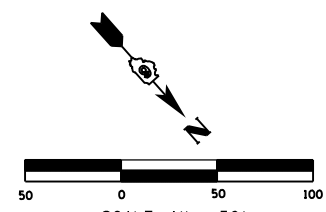
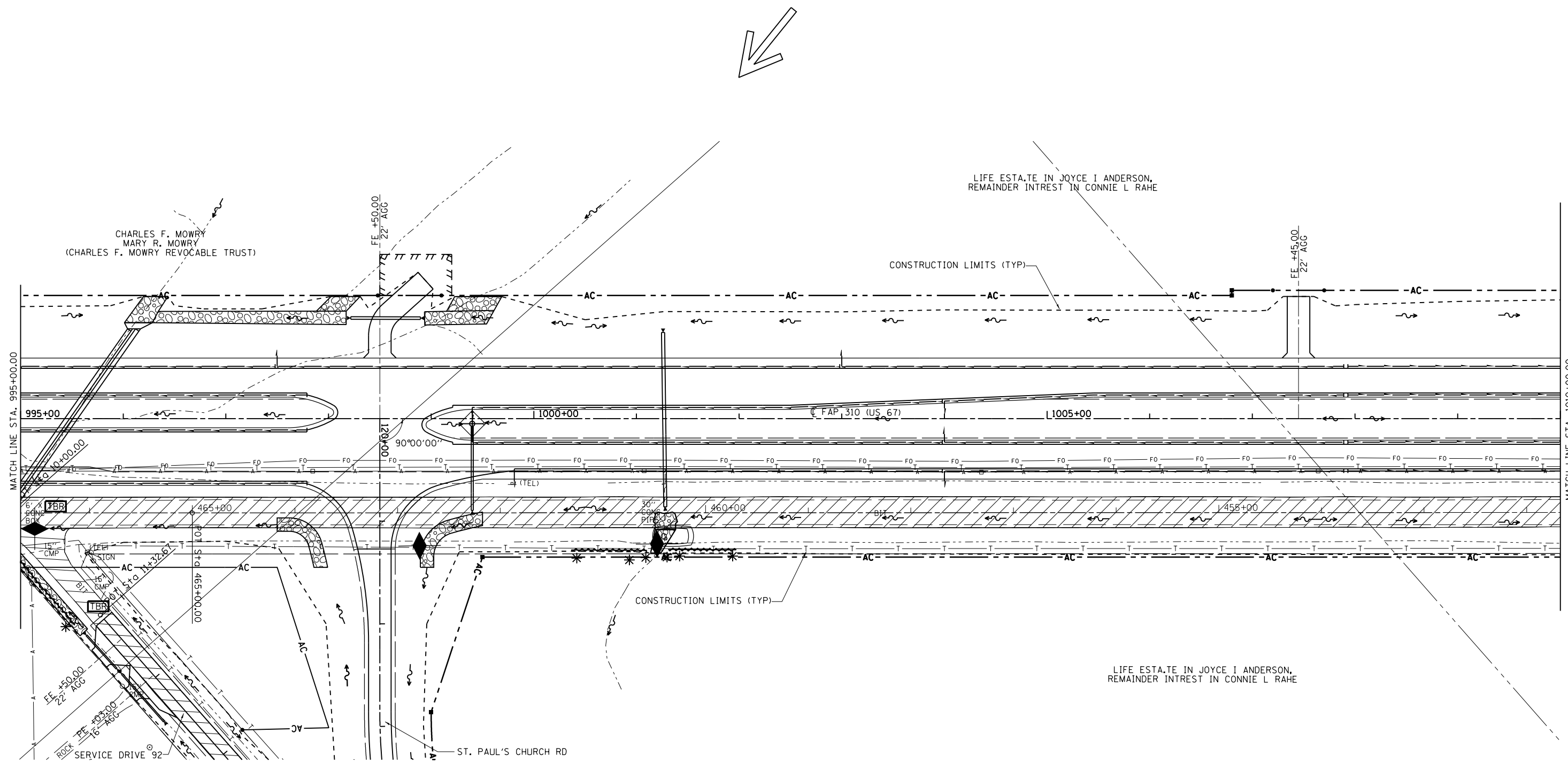


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STORM WATER POLLUTION PREVENTION PLAN			
SCALE:	SHEET NO.	OF SHEETS	STA. 980+00.00 TO STA. 995+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	391
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



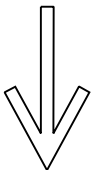
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		DATE - APRIL 5, 1999	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

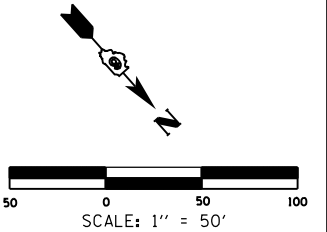
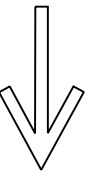
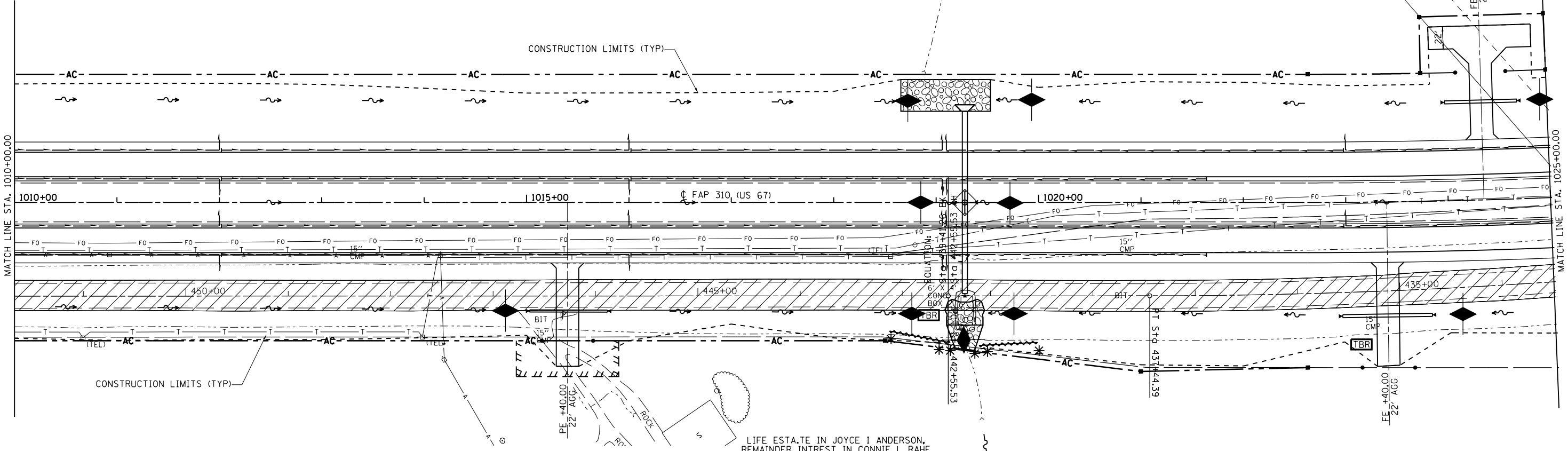
**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 995+00.00 TO STA. 1010+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	392
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LIFE ESTATE IN JOYCE I ANDERSON,
REMAINDER INTREST IN CONNIE L RAHE



FILE NAME =	USER NAME = Sparksgw	DESIGNED -	REVISED - AUG 2007 (JCN)
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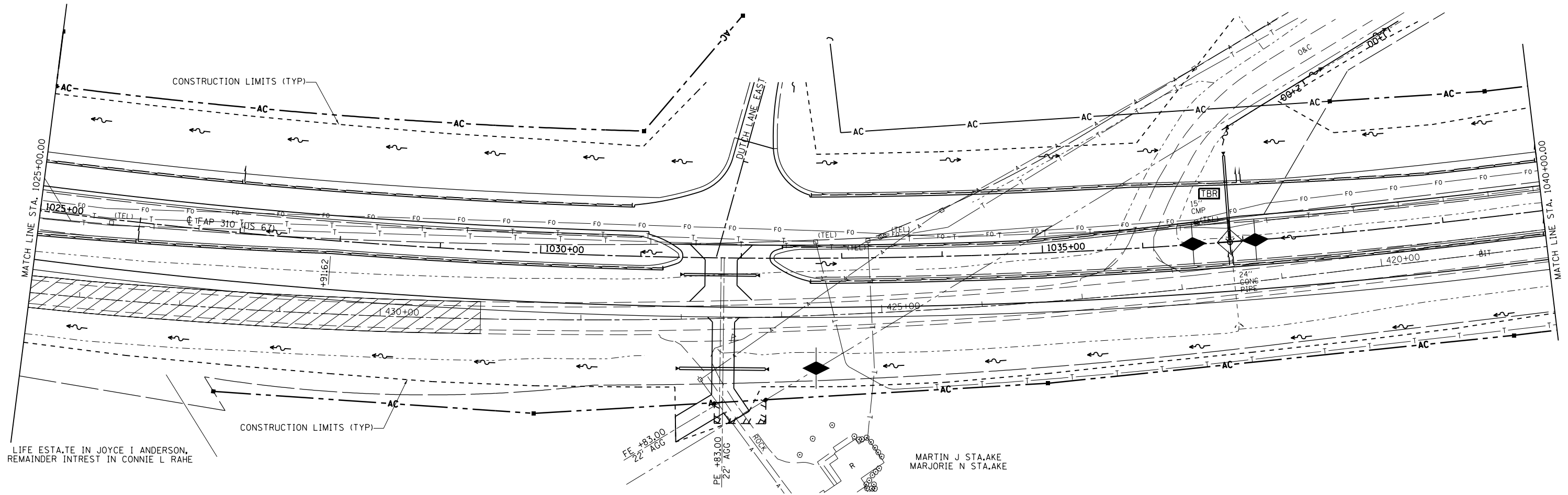
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 1010+00.00 TO STA. 1025+00.00

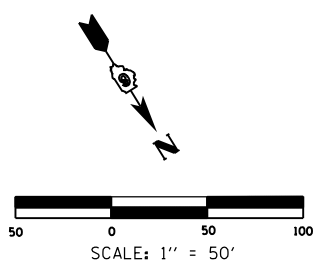
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	393
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

JOSEPH M KUNZEMAN
VERNA M KUNZEMAN



LIFE ESTATE IN JOYCE I ANDERSON,
REMAINDER INTREST IN CONNIE L RAHE

MARTIN J STA.AKE
MARJORIE N STA.AKE



FILE NAME = c:\pwwork\pwwork\sparksgw\10264875\ECMainline15-28.dgn	USER NAME = Sparksgw	DESIGNED -	REVISED - AUG 2007 (JCN)
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PLOT DATE = Mar-30-2011 09:44:20AM	DATE - APRIL 5, 1999		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STORM WATER POLLUTION PREVENTION PLAN			
SCALE:	SHEET NO.	OF SHEETS	STA. 1025+00.00 TO STA. 1040+00.00

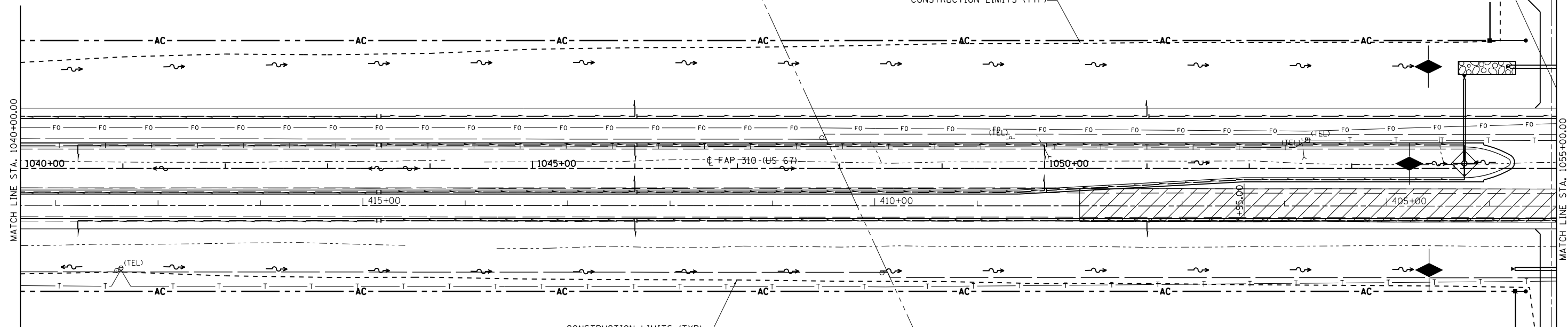
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	394
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

2-20-82

MARTIN J STA.AKE
MARJORIE N STA.AKE

DELLA E GILLILAND

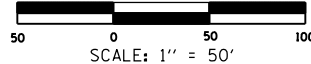
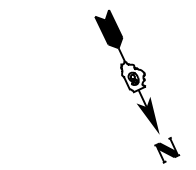
CONSTRUCTION LIMITS (TYP)



CONSTRUCTION LIMITS (TYP)

MARTIN J STA.AKE
MARJORIE N STA.AKE

DELLA E GILLILAND



FILE NAME = c:\pwwork\pwwidot\sparksgw\10264875\EC	USER NAME = sparksgw Mainline15-28.dgn	DESIGNED - DRAWN - CADD	REVISED - AUG 2007 (JCN) REVISED - OCT 2010 (JCN)
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

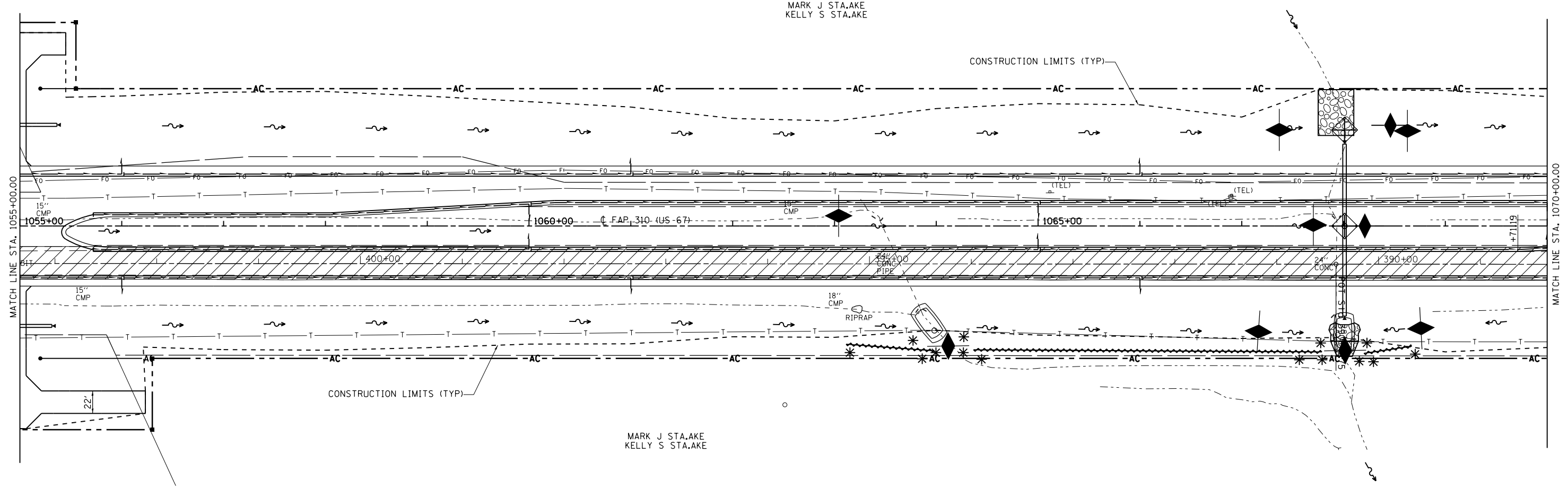
SCALE: SHEET NO. OF SHEETS STA. 1040+00.00 TO STA. 1055+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	395
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

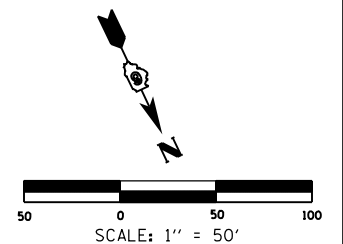
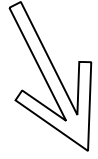


MARK J STA.AKE
KELLY S STA.AKE

CONSTRUCTION LIMITS (TYP)



MARK J STA.AKE
KELLY S STA.AKE



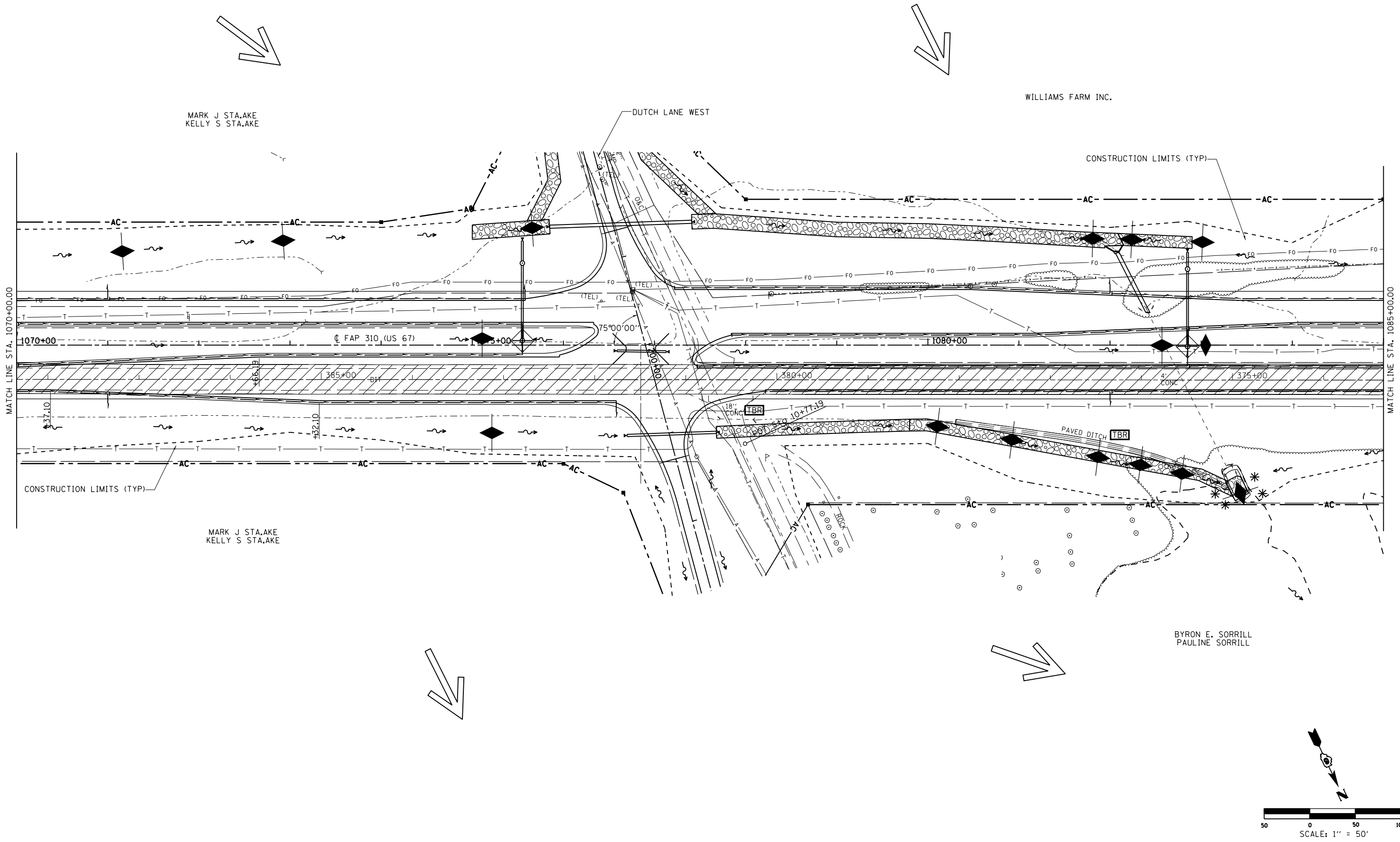
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

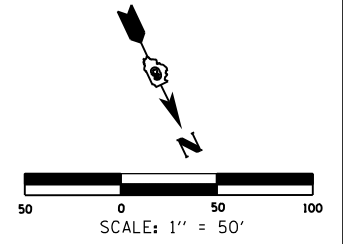
**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 1055+00.00 TO STA. 1070+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	396
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BYRON E. SORRILL
PAULINE SORRILL



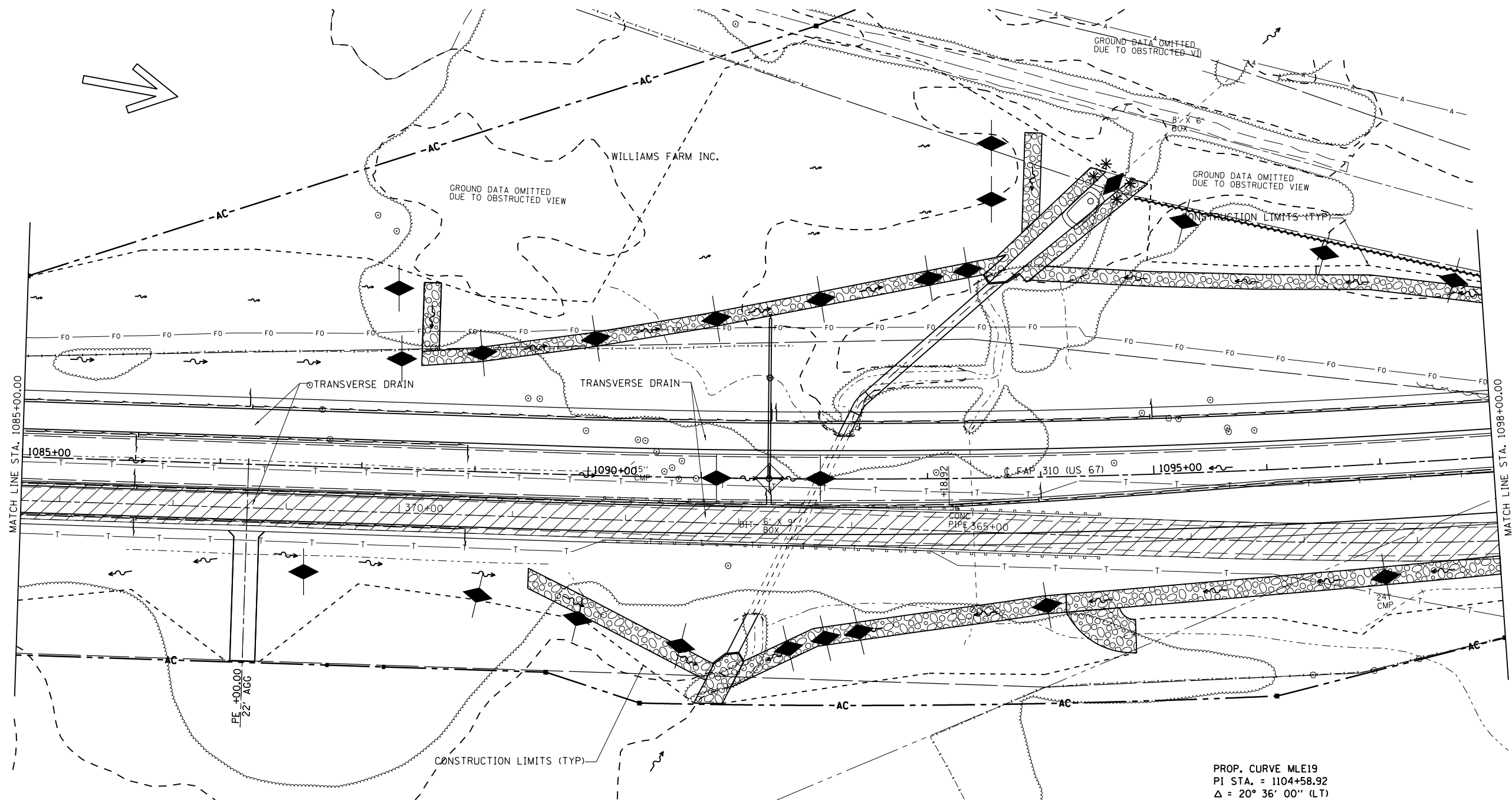
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		CHECKED - JCN	REVISED -
		DATE - APRIL 5, 1999	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 1070+00.00 TO STA. 1085+00.00

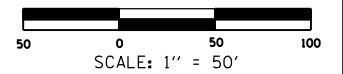
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CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BYRON E. SORRILL
PAULINE SORRILL

PROP. CURVE MLE19
 PI STA. = 1104+58.92
 $\Delta = 20^\circ 36' 00''$ (LT)
 $D = 0^\circ 41' 55''$
 $R = 8,202.08'$
 $T = 1,490.57'$
 $L = 2,948.96'$
 $E = 134.34'$
 $e = 0.025$
 $T.R. = 48$
 $S.E. RUN = 113$
 $P.C. STA. = 1089+68.35$
 $P.T. STA. = 1119+17.31$

PAUL J WERRIES



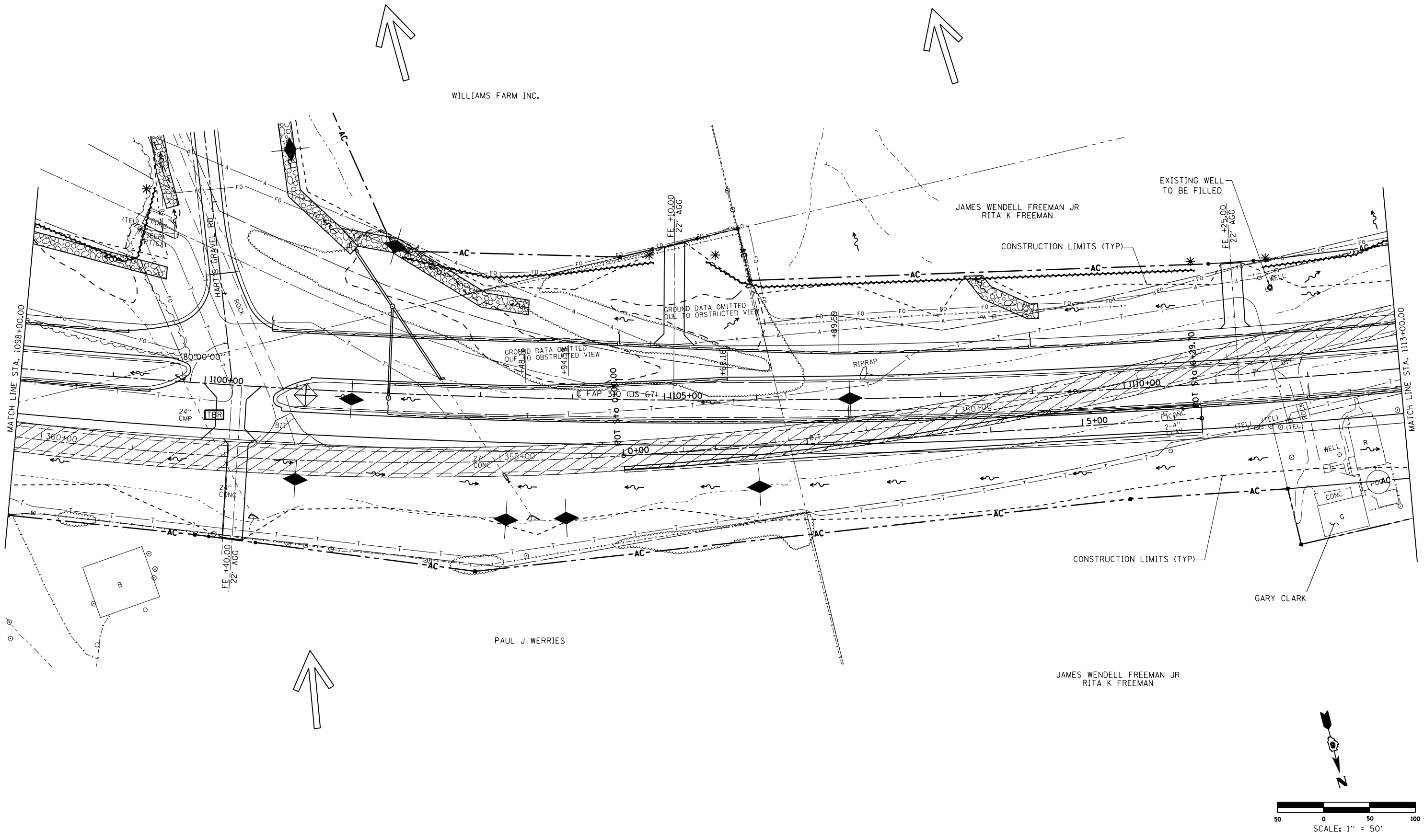
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PLOT DATE = Mar-30-2011 09:44:22AM			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 1085+00.00 TO STA. 1098+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	398
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



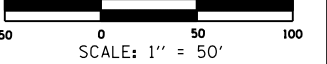
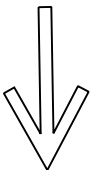
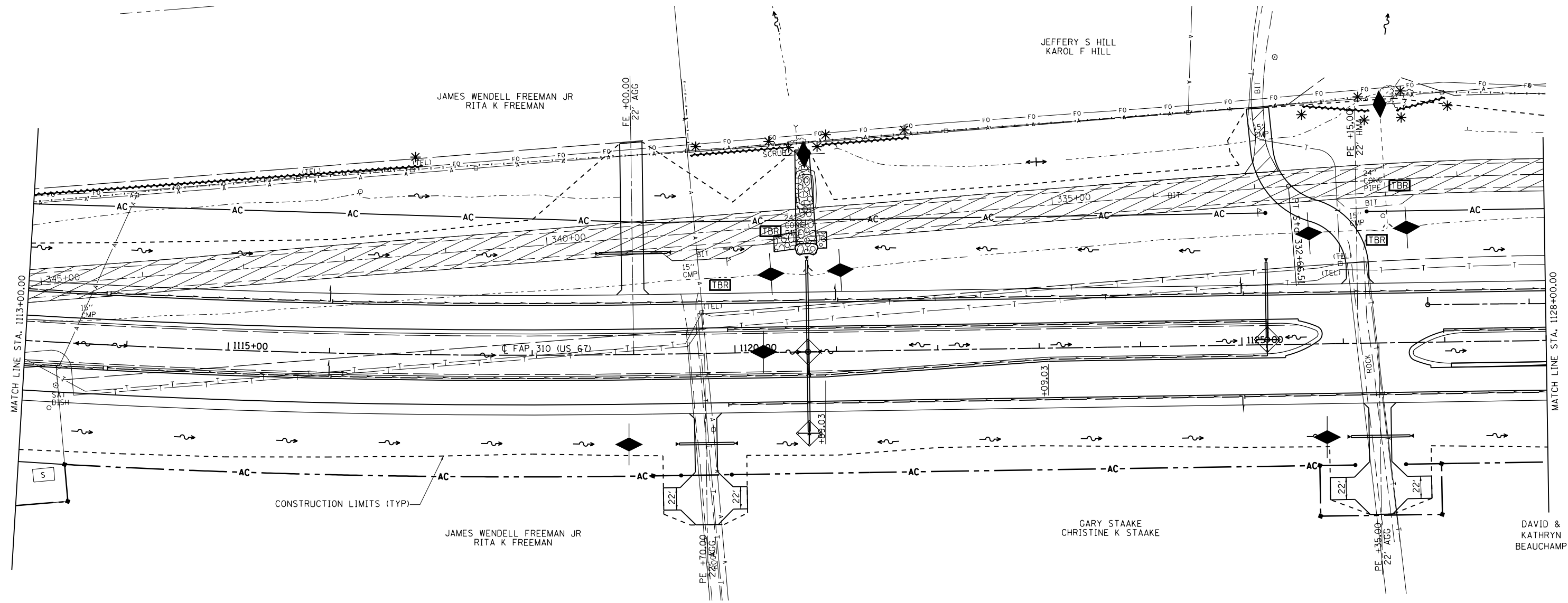
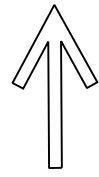
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 1098+00.00 TO STA. 1113+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	399
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = sparksgw	DESIGNED -	REVISED - AUG 2007 (JCN)
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: SHEET NO. OF SHEETS STA. 1113+00.00 TO STA. 1128+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	400
CONTRACT NO. 72667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				