








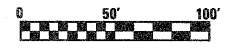
MATCH LINE STA. 2009+00.00

LEGEND

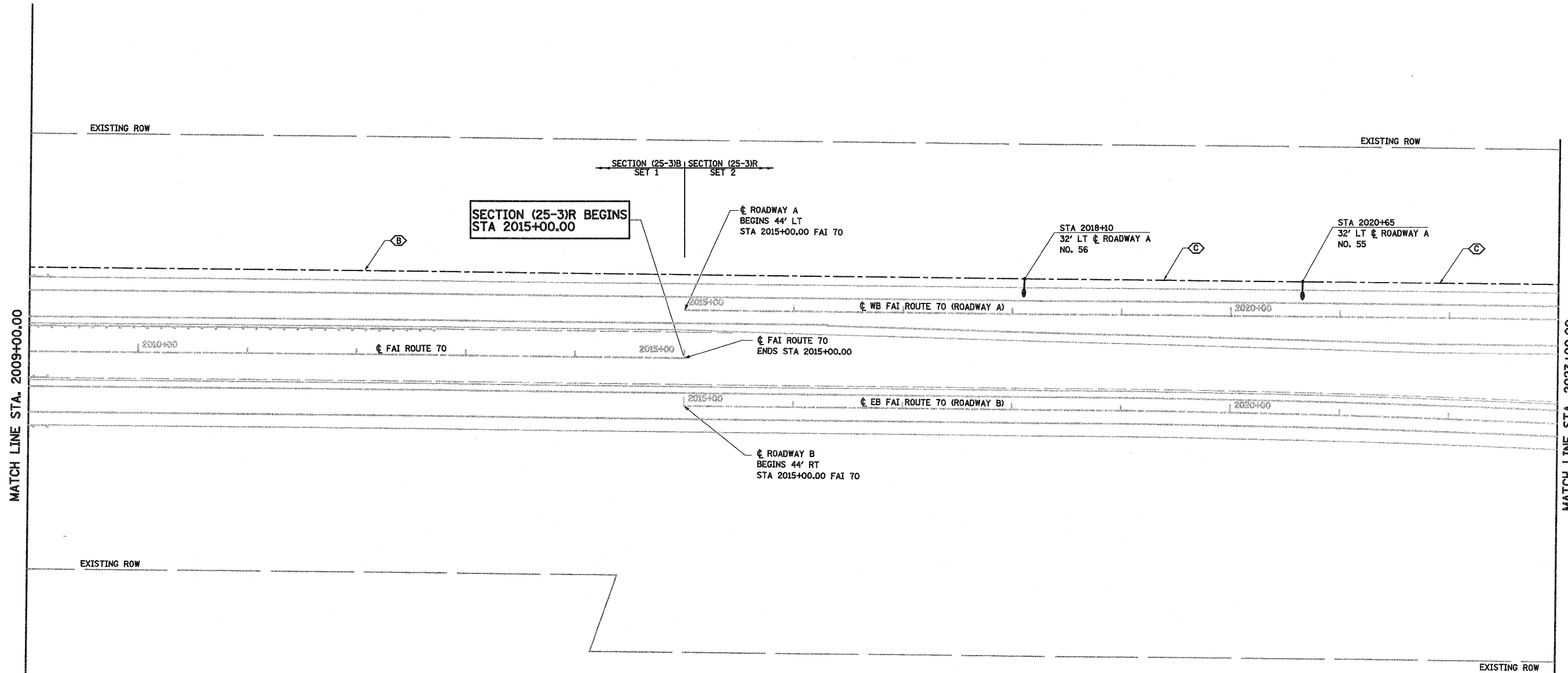
-  PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
-  PROPOSED LIGHTING CONTROLLER
-  SERVICE INSTALLATION
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
-  PROPOSED UNIT DUCT
-  PROPOSED CONDUIT ATTACHED TO STRUCTURE
-  PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE










FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 04-08-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SV:\projects\03-0072-57-70\plan\5 Tri-Lvl Lighting prop.sldwg		DRAWN - PDB	REVISED -		57/70	(25-3)R	EFFINGHAM	1416	401			
	PLOT SCALE = 100.0000' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=50'			CONTRACT NO. 74296				
	PLOT DATE = 4/21/2010	DATE - 3-4-08	REVISED -		SHEET NO. 12 OF 34 SHEETS			STA. 2005+92.13 TO STA. 2009+00.00				
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								









MATCH LINE STA. 2009+00.00

MATCH LINE STA. 2023+00.00

LEGEND

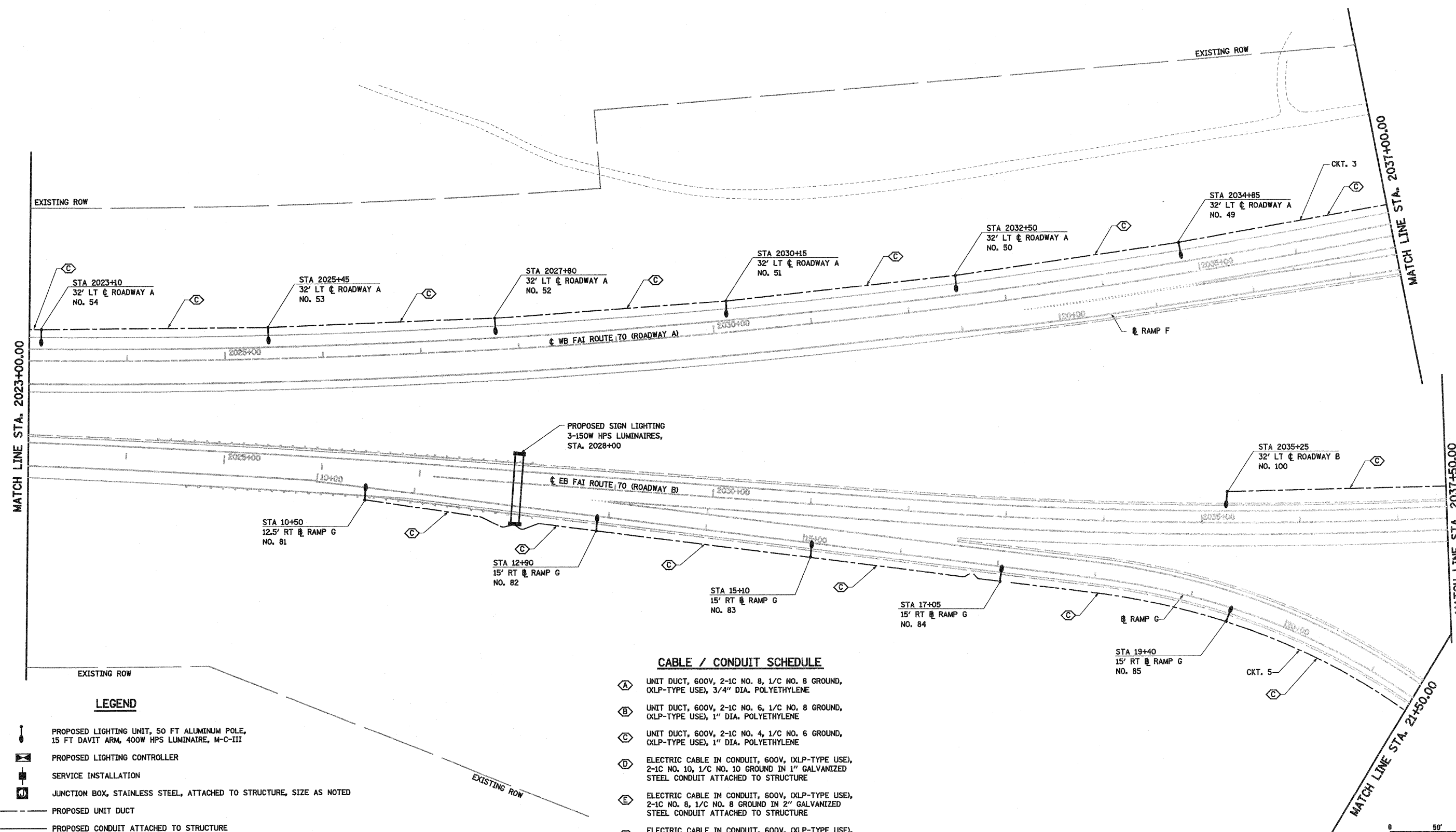
-  PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
-  PROPOSED LIGHTING CONTROLLER
-  SERVICE INSTALLATION
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
-  PROPOSED UNIT DUCT
-  PROPOSED CONDUIT ATTACHED TO STRUCTURE
-  PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

-  UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
-  UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
-  UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
-  ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
-  ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
-  ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 04-08-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SV\projects\MOE\007257-00\p15 Tri\Lighting\prop.st\ldgn		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 13 OF 34 SHEETS	STA. 2009+00.00 TO STA. 2023+00.00	57/70	(25-3)R	EFFINGHAM	1416	402
	PLOT SCALE = 100.0000' / IN.	CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
	PLOT DATE = 4/21/2010	DATE - 3-4-08	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

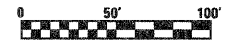


LEGEND

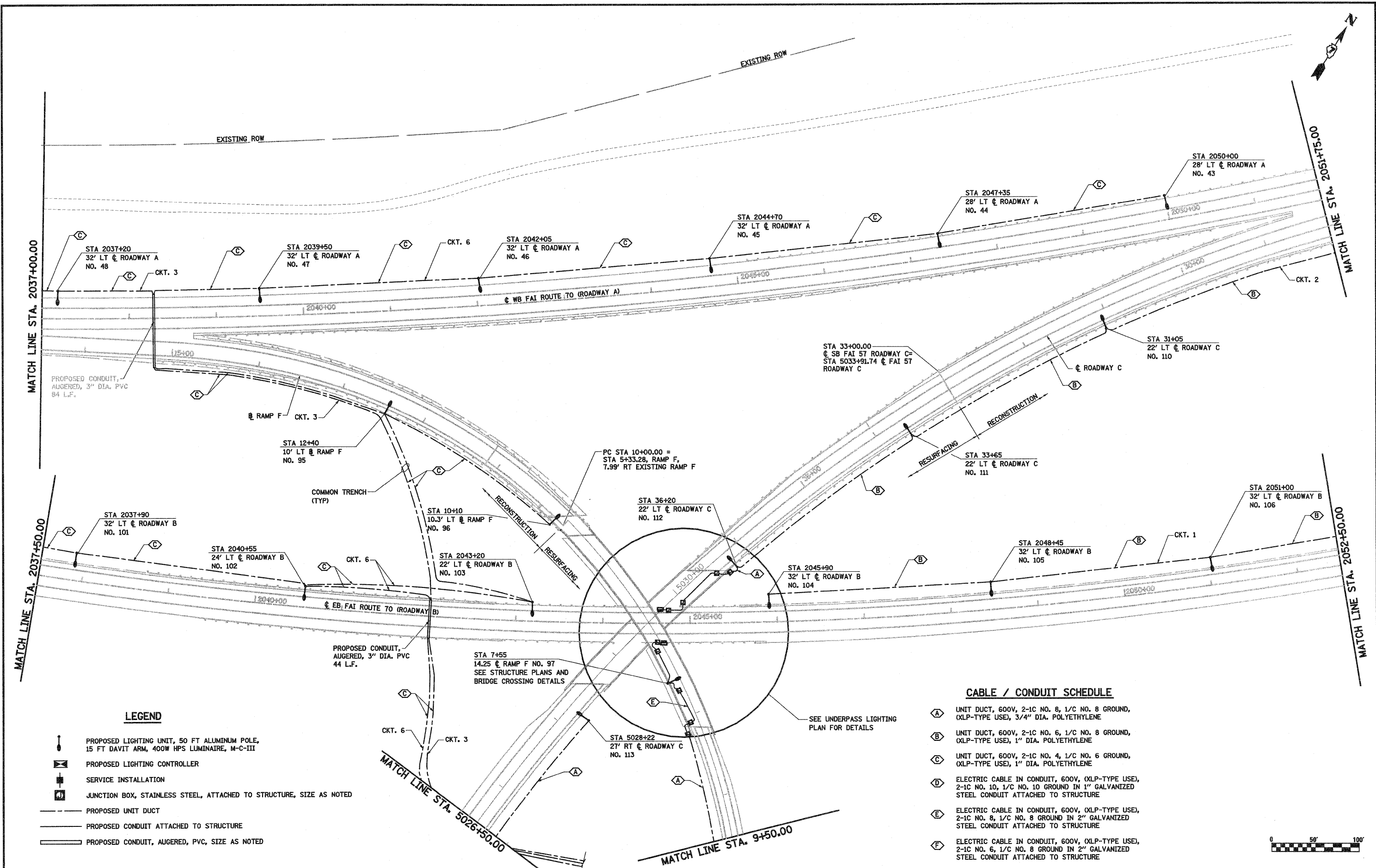
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Project: I183 00072.57 7/14/15 Trk Lighting prop.rld.dgn		DRAWN - PDB	REVISED -		57/70	(25-3)R	EFFINGHAM	1416	403	CONTRACT NO. 74296		
		CHECKED - BRM	REVISED -		SCALE: 1"=50'	SHEET NO. 14 OF 34 SHEETS	STA. 2023+00.00 TO STA. 2037+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
		DATE - 3-4-08	REVISED -									

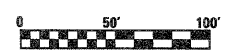


LEGEND

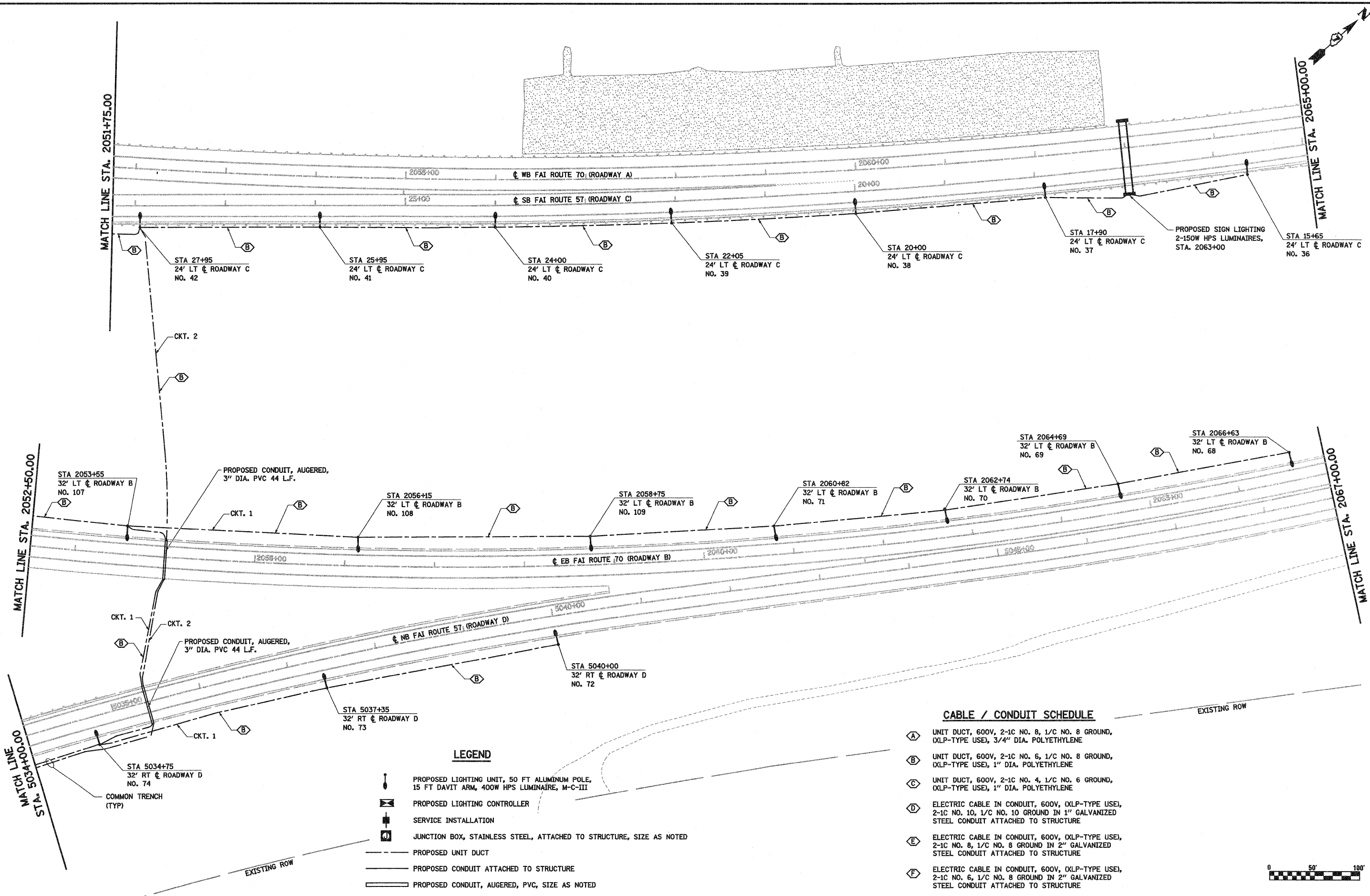
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 4-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
5/1/2010 10:07:57 AM 15 Tri Lighting prep.rtd.dgn		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 15 OF 34 SHEETS	57/70	(25-3)R	EFFINGHAM	1416	404
		CHECKED - BRM	REVISED -		STA. 2037+00.00 TO STA. 2052+50.00		CONTRACT NO. 74296				
		DATE - 3-4-08	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



LEGEND

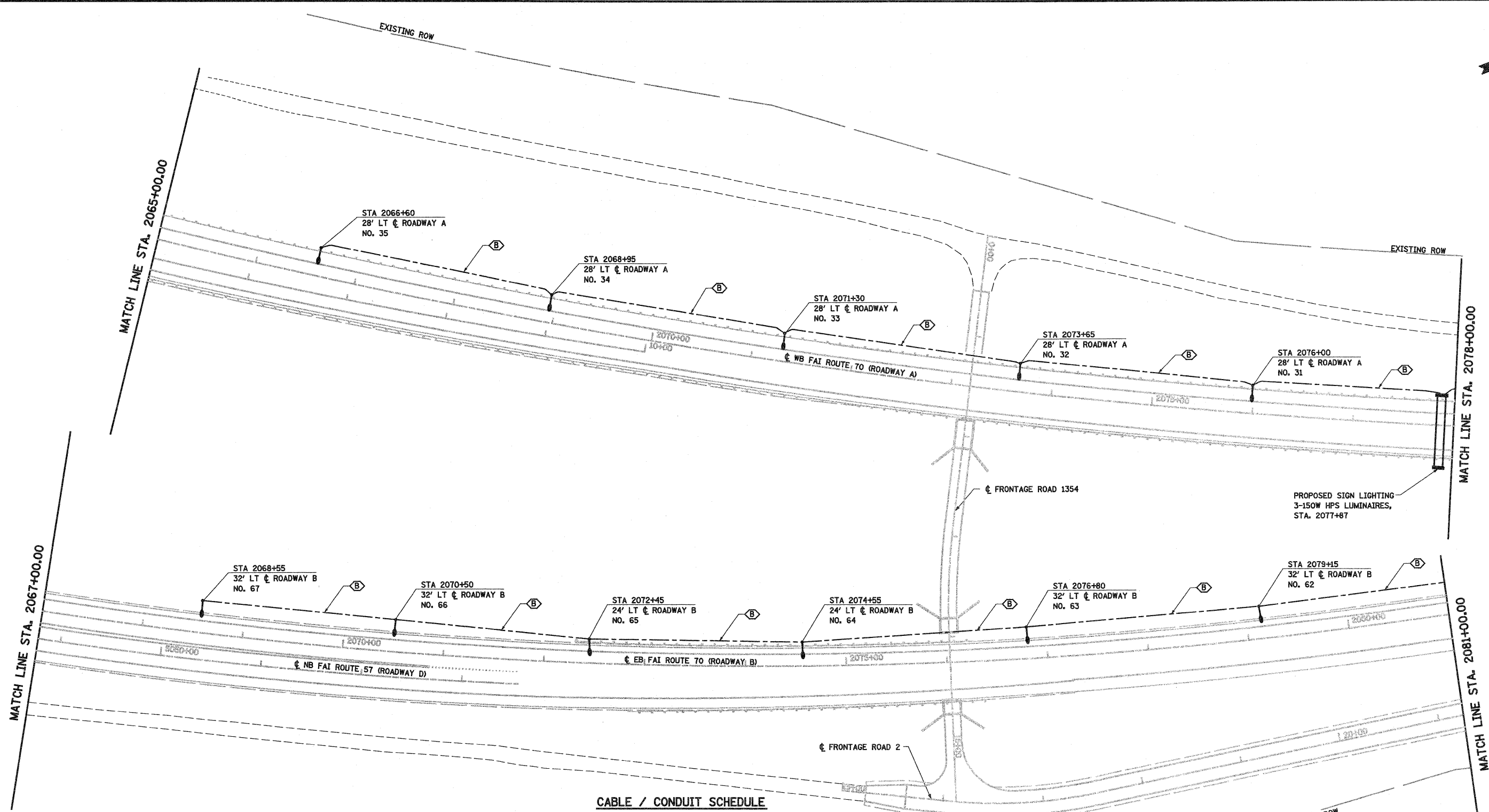
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 4-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL		F.A.I RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 405	
PLOT SCALE = 1/8" = 1' / IN.	CHECKED - BRM	DATE - 3-4-08	REVISED -		SCALE: 1"=50'	SHEET NO. 16 OF 34 SHEETS	STA. 2052+50.00 TO STA. 2067+00.00	CONTRACT NO. 74296				
PLOT DATE = 4/27/2010	DATE - 3-4-08	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
EXISTING ROW												



LEGEND

- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE



FILE NAME =
S:\Projects\103-00072-57-70\Lighting\prop.ctb

USER NAME = paul
PLOT SCALE = 100.0000' / IN.
PLOT DATE = 3/19/2010

DESIGNED - JWS
DRAWN - PDB
CHECKED - BRM
DATE - 3-4-08

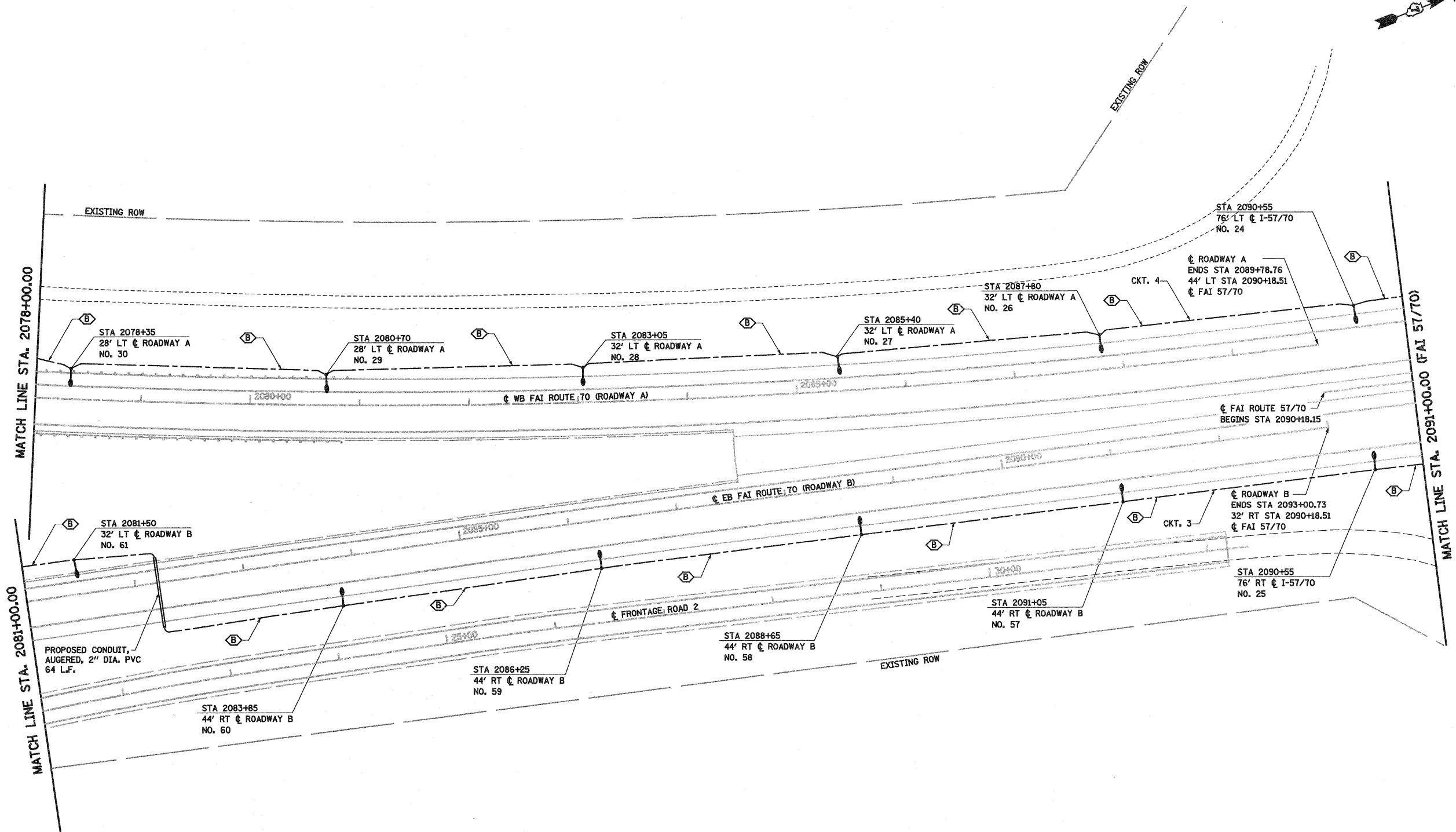
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING
SOUTH TRI LEVEL**

SCALE: 1"=50' SHEET NO. 17 OF 34 SHEETS STA. 2067+00.00 TO STA. 2081+00.00

F.A.I. RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 406
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74296	



LEGEND

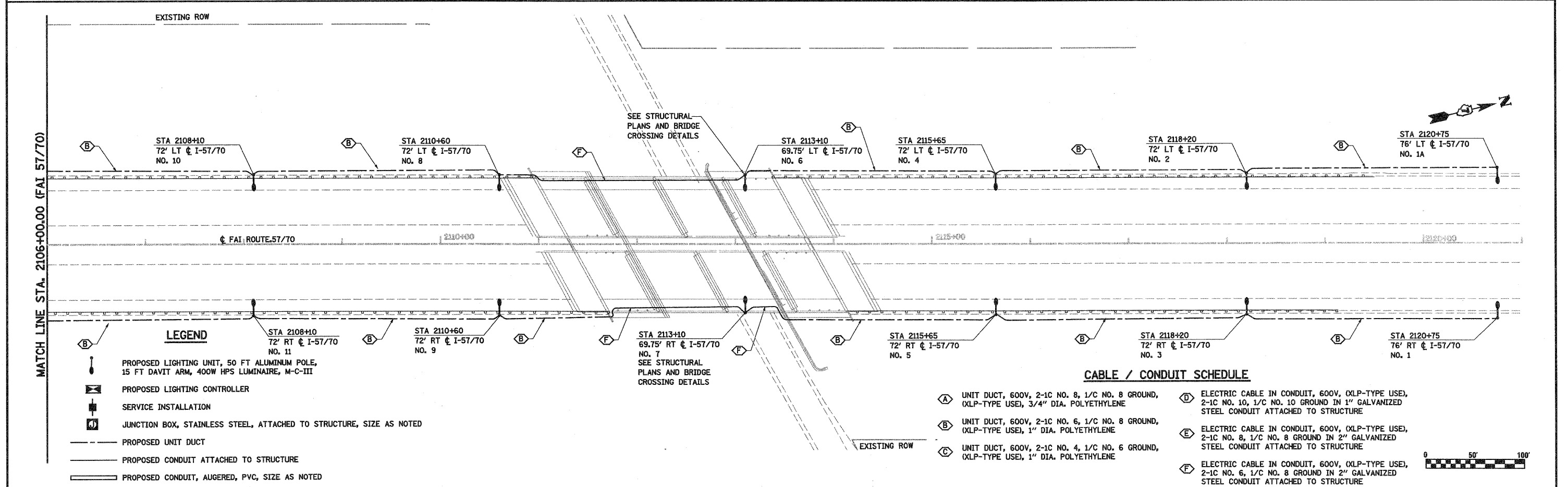
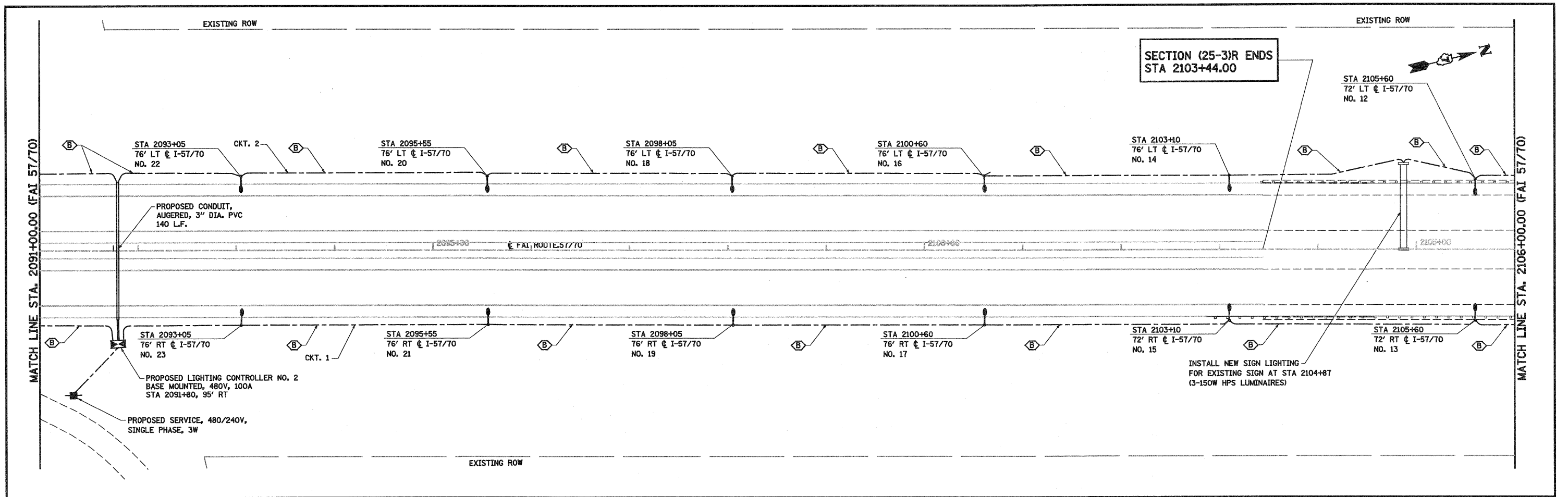
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

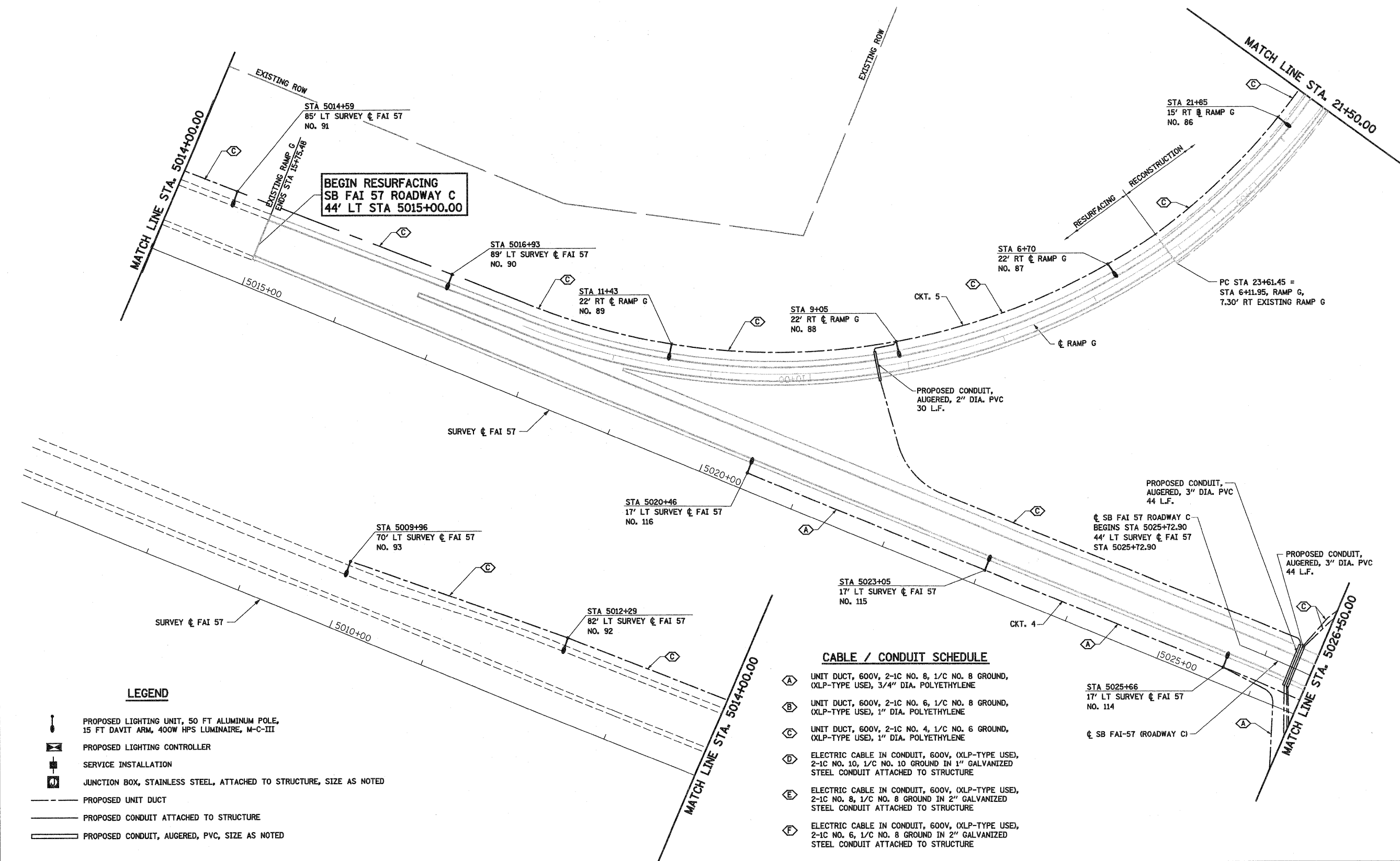
- A** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- B** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- C** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- D** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- E** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- F** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SAProject\MS\2257-70\sp\5 TriLevelLighting.dwg		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 18 OF 34 SHEETS	STA. 2081+00.00 TO STA. 2091+00.00	57/70	(25-3)R	EFFINGHAM	1416	407
		CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
		DATE - 3-4-08	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 04-08-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SV:\projects\10027237\10027237.dgn		DRAWN - PDB	REVISED -			57/70	(25-3)R	EFFINGHAM	1416	408	
PLOT SCALE = 1/80,00000 ' / IN.		CHECKED - BRM	REVISED -			CONTRACT NO. T4296					
PLOT DATE = 4/21/2010		DATE - 3-4-08	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



**BEGIN RESURFACING
SB FAI 57 ROADWAY C
44' LT STA 5015+00.00**

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE

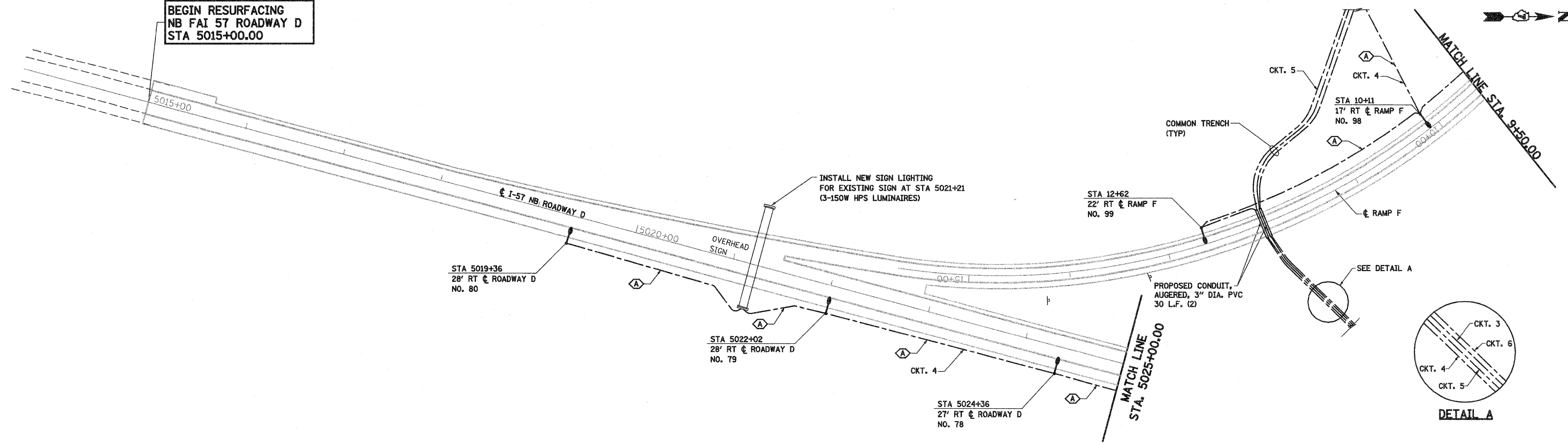
LEGEND

- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL			F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50\Projects\183\2012\7.57\7\Lighting\prop.plt.dgn		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 20 OF 34 SHEETS	STA. 5015+00.00 TO STA. 5026+50.00	57/70	(25-3)R	EFFINGHAM	1416	409
		CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
		DATE - 3-4-08	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BEGIN RESURFACING
NB FAI 57 ROADWAY D
STA 5015+00.00

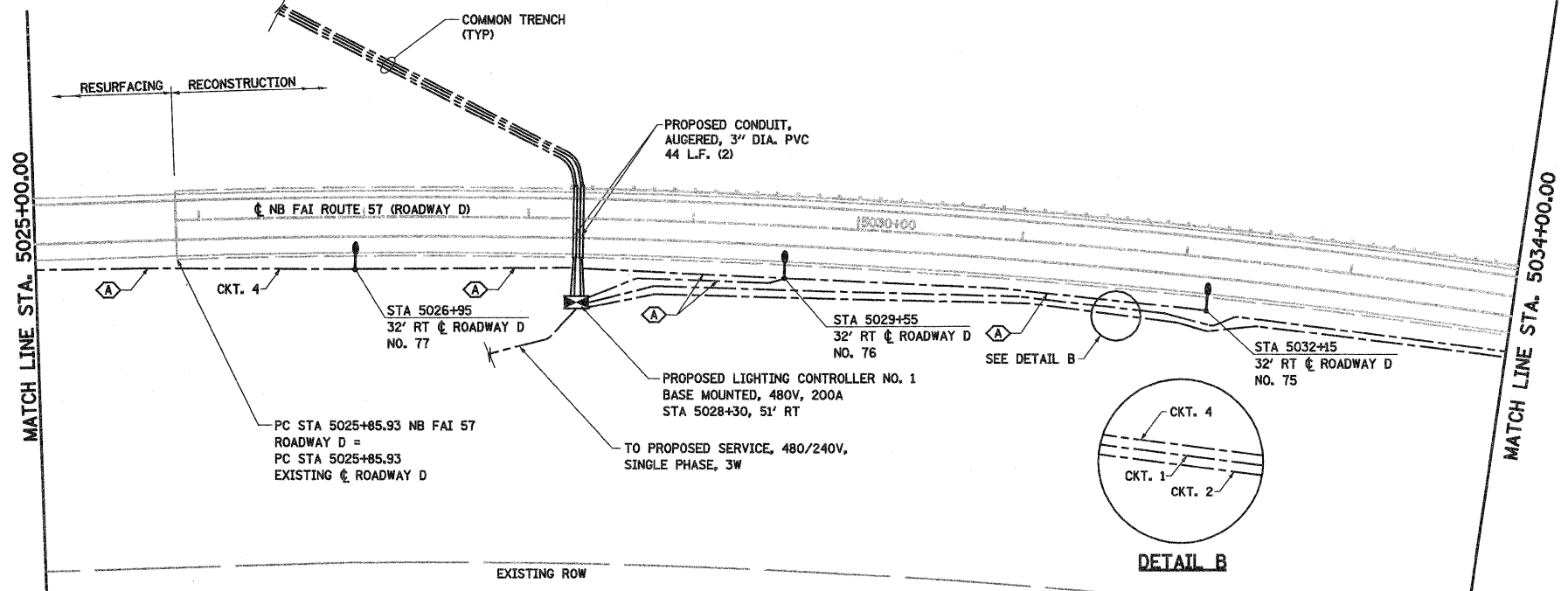


LEGEND

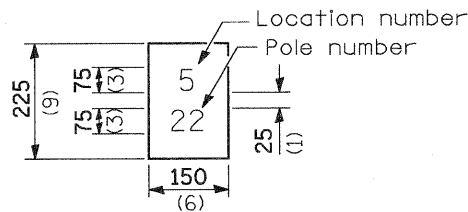
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT ATTACHED TO STRUCTURE
- PROPOSED CONDUIT, AUGERED, PVC, SIZE AS NOTED

CABLE / CONDUIT SCHEDULE

- A** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- B** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- C** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- D** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- E** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- F** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE

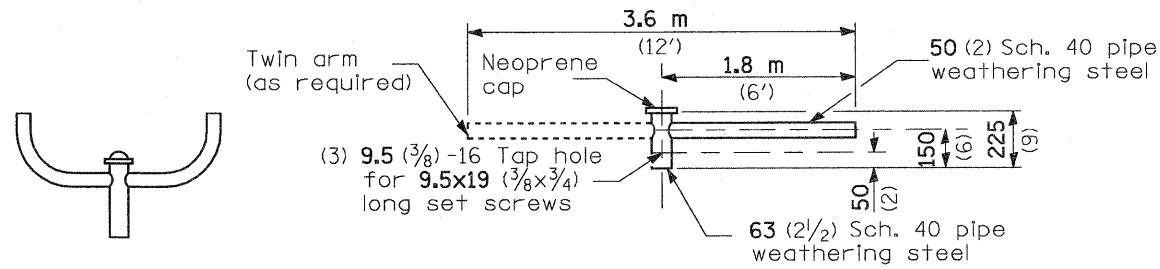


FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED - 4-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING SOUTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3:\Projects\180\18072.57\18072.57\Lighting\prop.dwg		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 21 OF 34 SHEETS	STA. 5015+00.00 TO STA. 5034+00.00	(25-3)R	EFFINGHAM	1416	410	
PLOT SCALE = 1/8"=1'-0" IN.		CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
PLOT DATE = 4/27/2010		DATE - 3-4-08	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



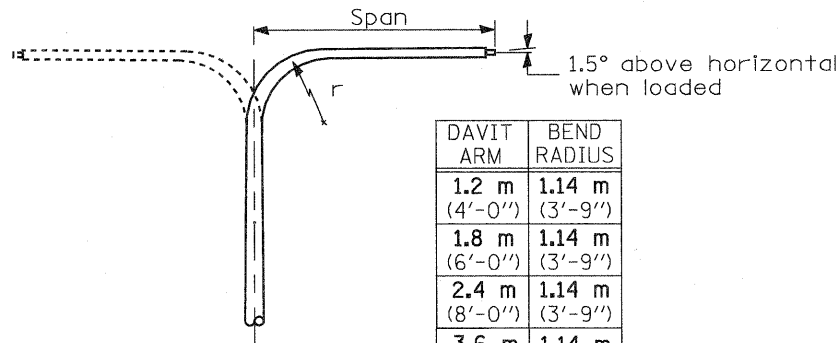
The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements 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.



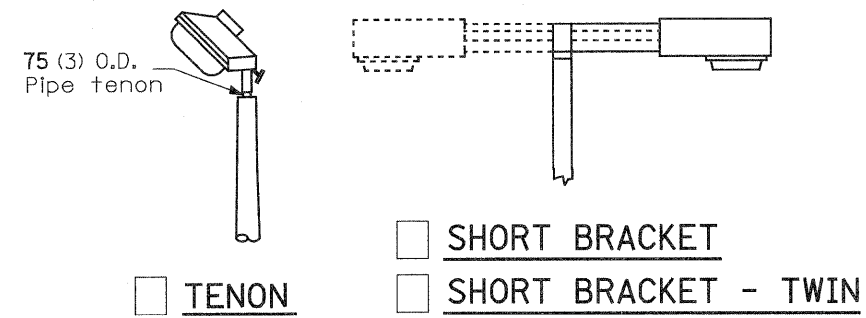
TWIN TENON TENON MOUNT BRACKET ARM

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

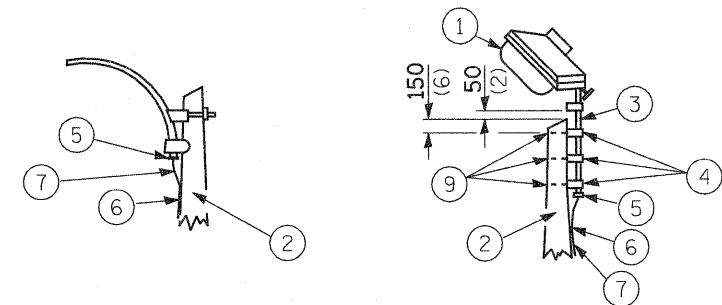


DAVIT ARM	BEND RADIUS
1.2 m (4'-0")	1.14 m (3'-9")
1.8 m (6'-0")	1.14 m (3'-9")
2.4 m (8'-0")	1.14 m (3'-9")
3.6 m (12'-0")	1.14 m (3'-9")

DAVIT ARM
 DAVIT ARM-TWIN

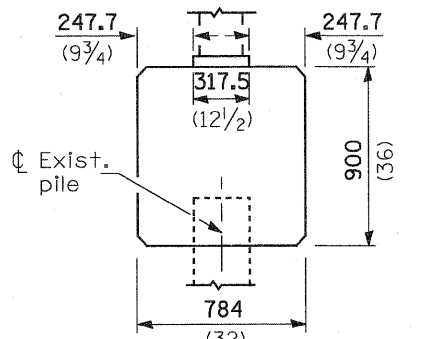
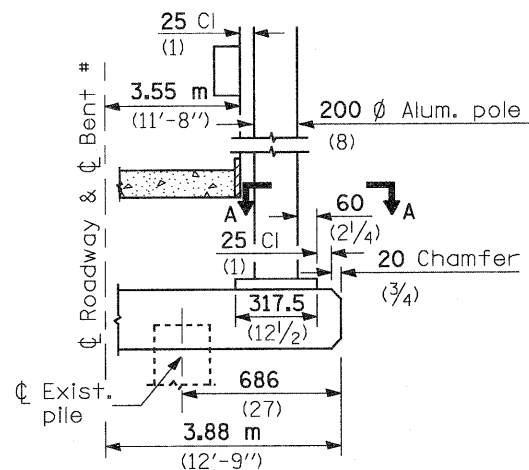


TENON SHORT BRACKET
 SHORT BRACKET - TWIN

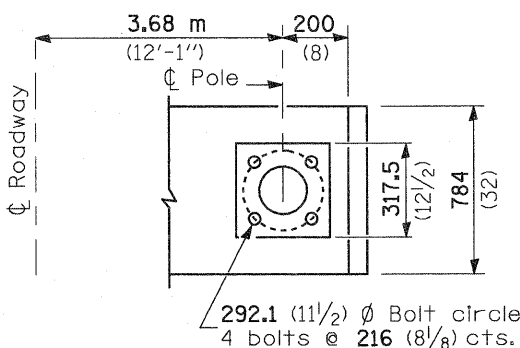


MAST ARM TENON

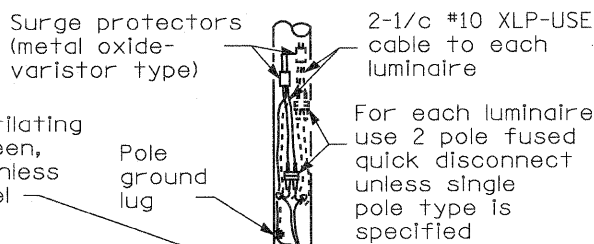
- ① Luminaire
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type use cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length
- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer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



BRIDGE PIER MOUNT



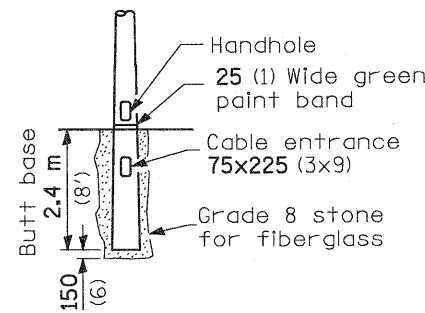
SECTION A-A



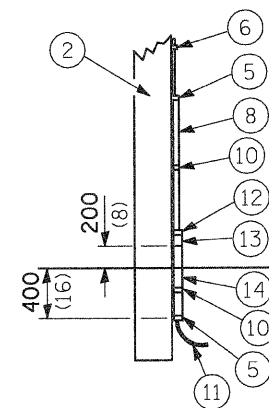
ANCHOR

METAL OR CONCRETE

Details for underground distribution if required

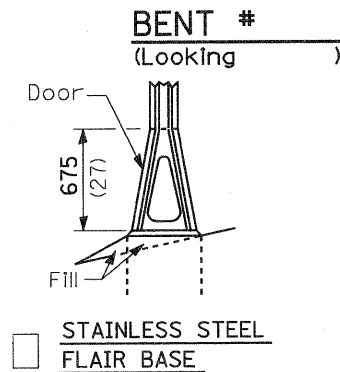


BUTT BASE

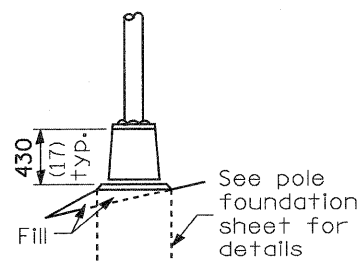


POLE, WOOD

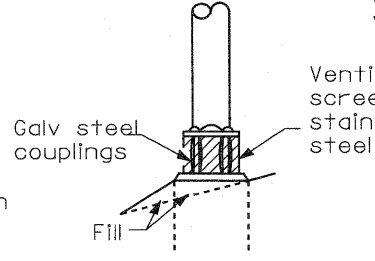
POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')



STAINLESS STEEL FLAIR BASE



TRANSFORMER BASE



BREAKAWAY COUPLING

FRANGIBLE

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

Surge protectors
(metal oxide-
varistor type)

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

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

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

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

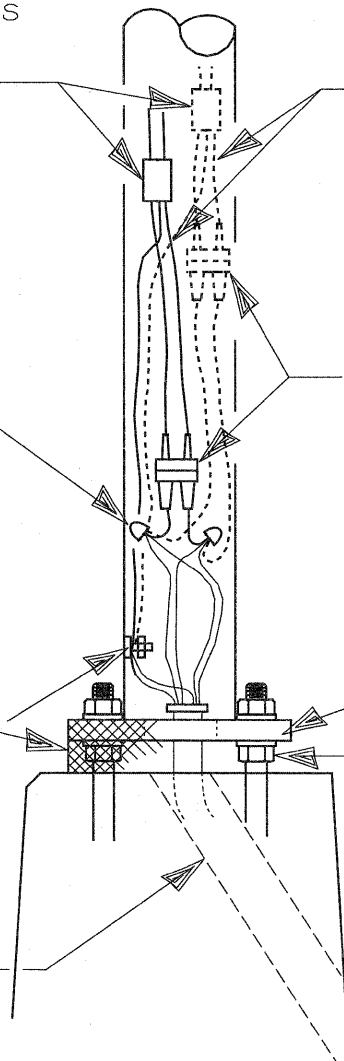
Attach with 1/2" stainless steel banding
or tie back on itself with stainless steel wire ties.
Finished installation must prevent rodent entry.

Pole
ground
lug

Pole base plate

1" leveling nuts

Wireway window
in pole foundation



WIRING DETAIL

NO SCALE

GENERAL NOTES

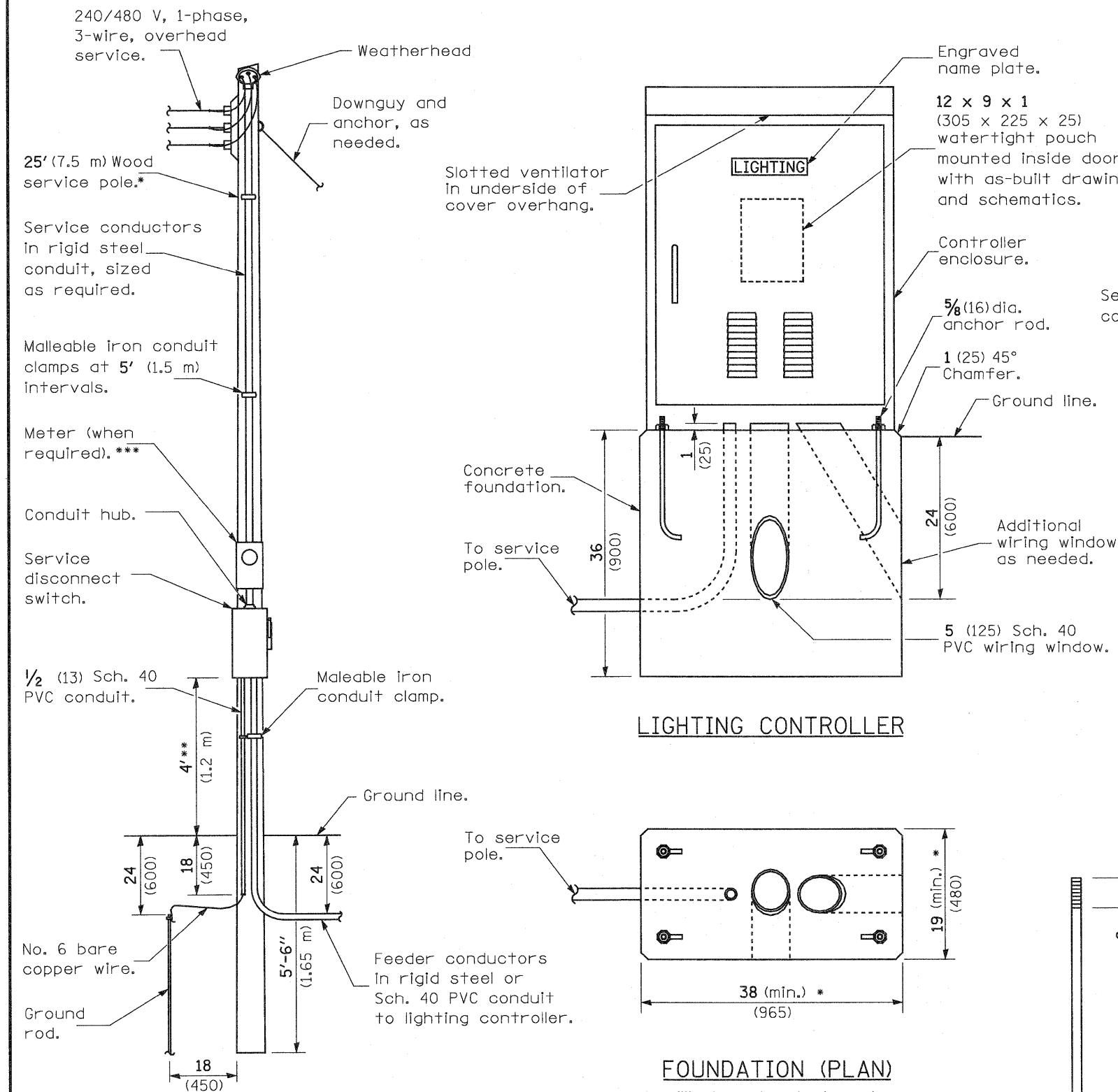
All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

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.

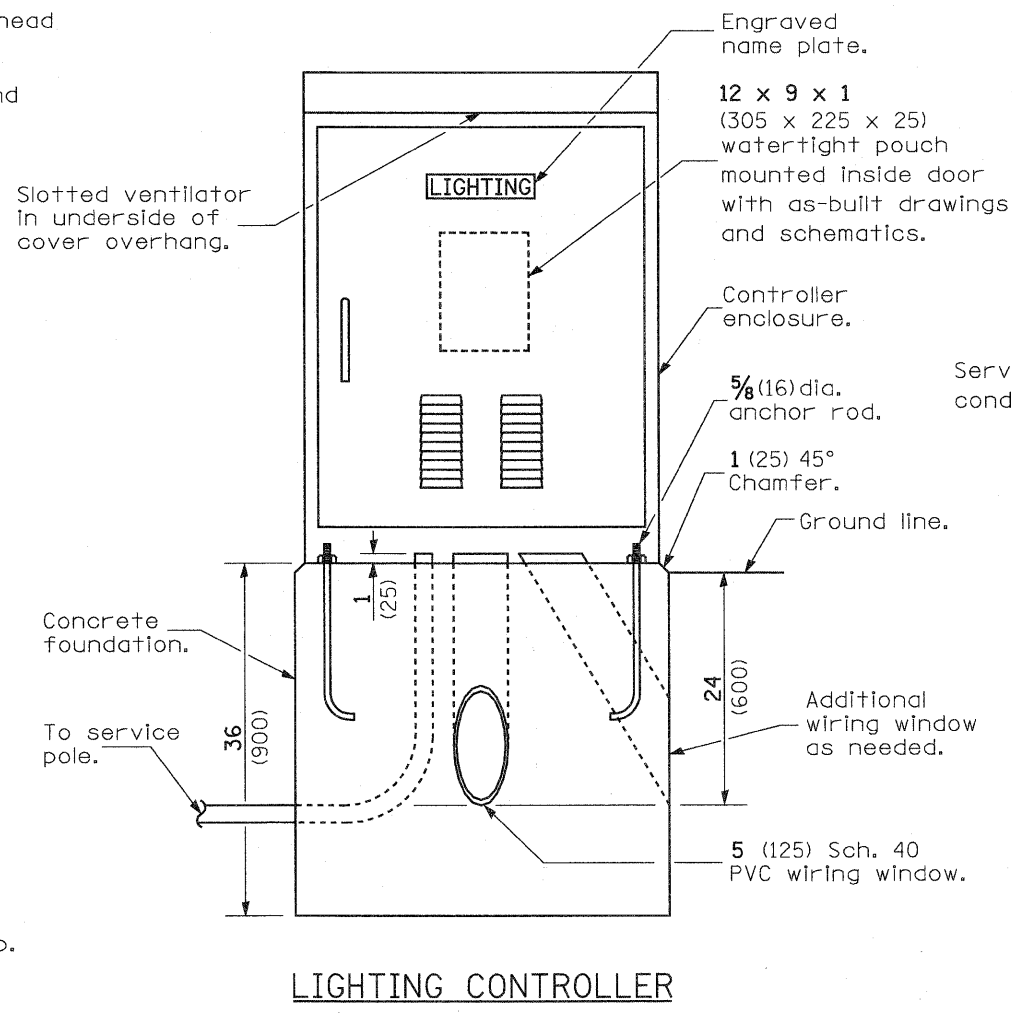
All dimensions are in millimeters (inches)
unless otherwise shown.

FILE NAME =	USER NAME = paul	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POLE HANDHOLE WIRING, SOUTH TRI LEVEL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072-57-70\dgn\5 Trl\wiring detail.dgn		DRAWN -	REVISED -			57/70	(25-3)-6	EFFINGHAM	1416	412
PLOT SCALE = 40,0000' / IN.		CHECKED -	REVISED -			SCALE: SHEET NO. 23 OF 34 SHEETS STA. TO STA.		CONTRACT NO. 74293		
PLOT DATE = 3/19/2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

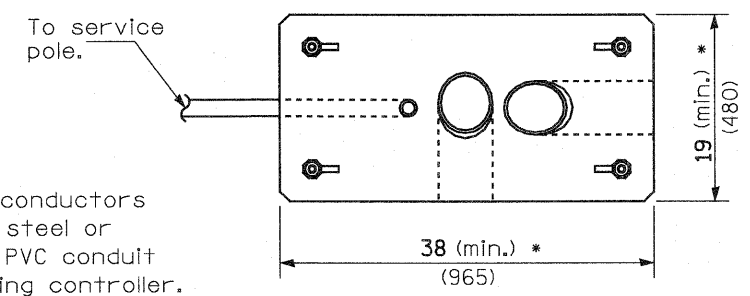


ELECTRIC SERVICE INSTALLATION

** Or as directed by Utility Company.
 *** When cold sequencing is required, provide a meter disconnect switch as directed by Utility Company.

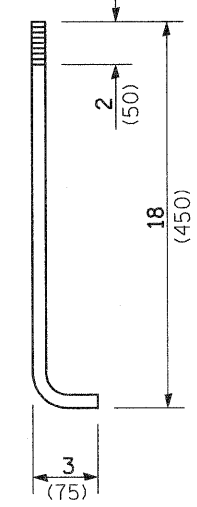


LIGHTING CONTROLLER

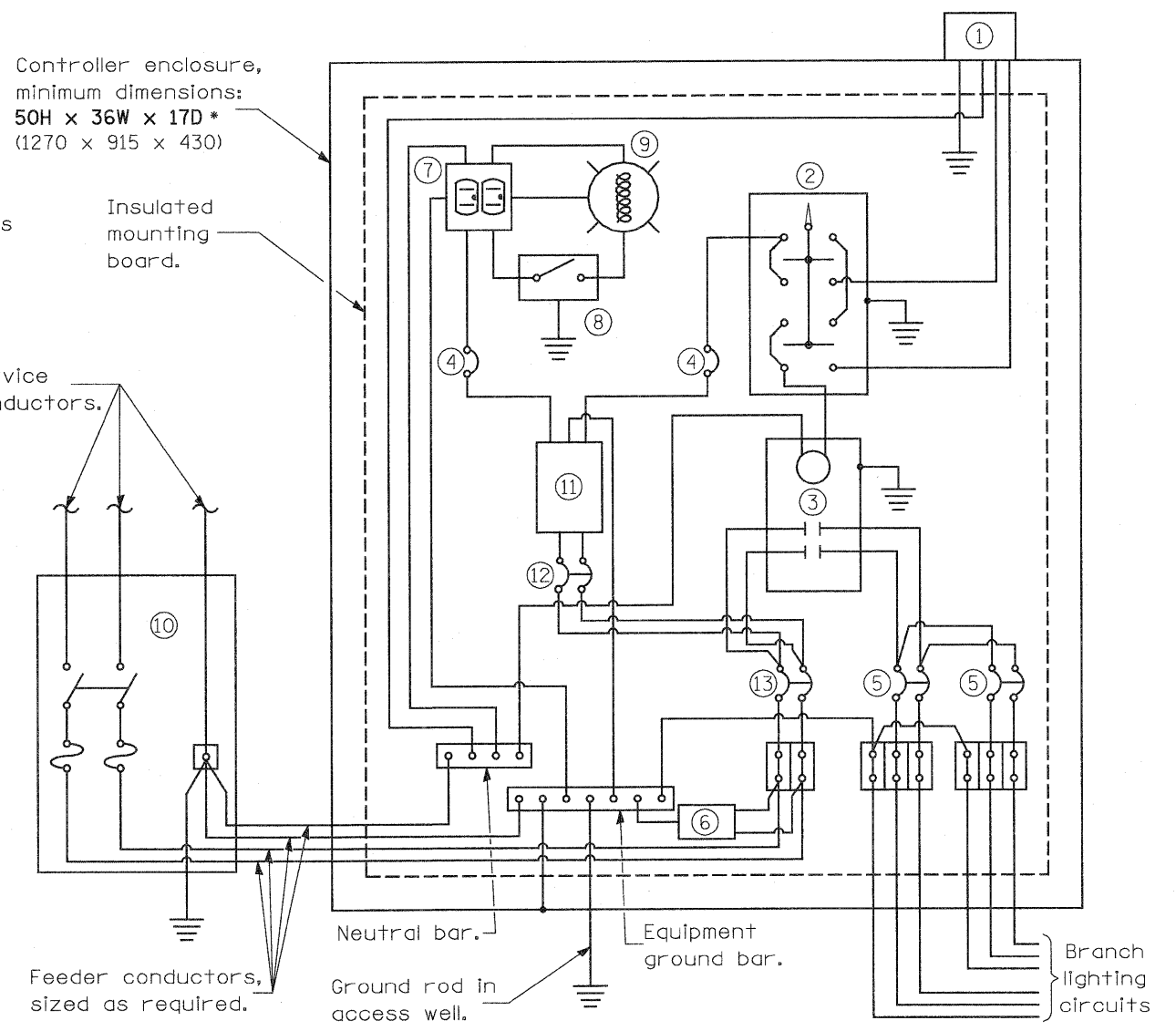


FOUNDATION (PLAN)

(Work pad not shown.)



ANCHOR ROD DETAIL



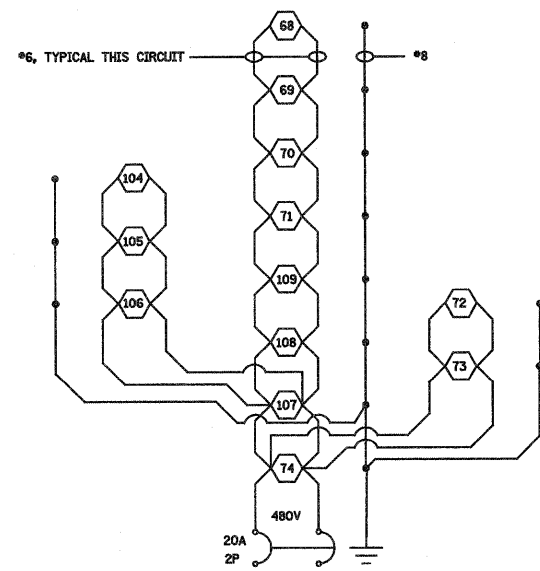
CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 3R enclosure having lockable external handle.
- ⑪ Transformer - 1KVA*, 480V primary, 120/240V secondary, single-phase, 60Hz.
- ⑫ 15 amp, 2-pole circuit breaker.
- ⑬ 100 amp*, 2-pole circuit breaker.

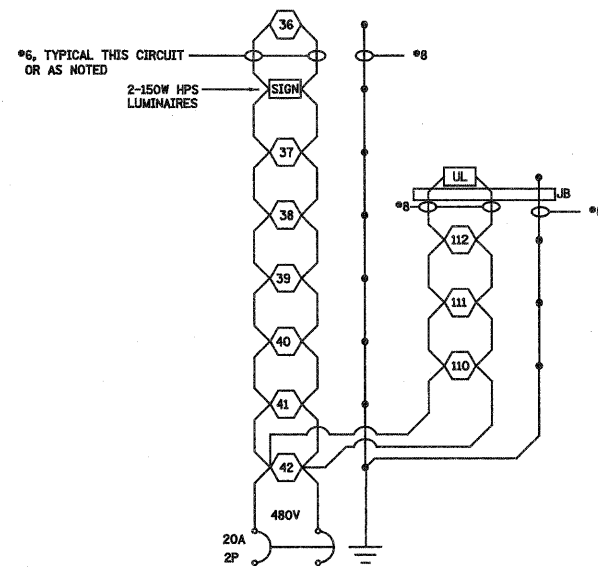
* Size larger as needed.

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

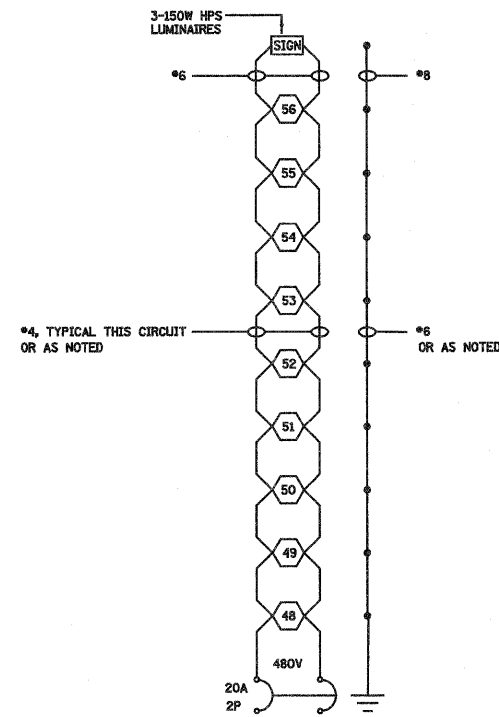
FILE NAME =	USER NAME = paul	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER 480V, BASE MOUNTED, SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
57/70	(25-3)-6	EFFINGHAM	1416			413						
						SCALE:	SHEET NO. 24 OF 34 SHEETS	STA.	TO STA.	CONTRACT NO. 74293		
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



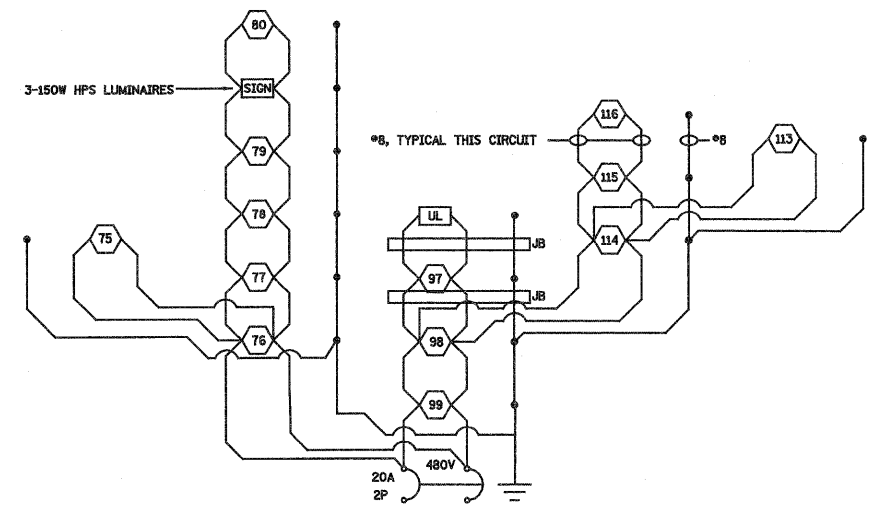
LIGHTING CKT 1
PROPOSED LIGHTING CONTROLLER NO. 1



LIGHTING CKT 2
PROPOSED LIGHTING CONTROLLER NO. 1







LIGHTING CKT 3
PROPOSED LIGHTING CONTROLLER NO. 1

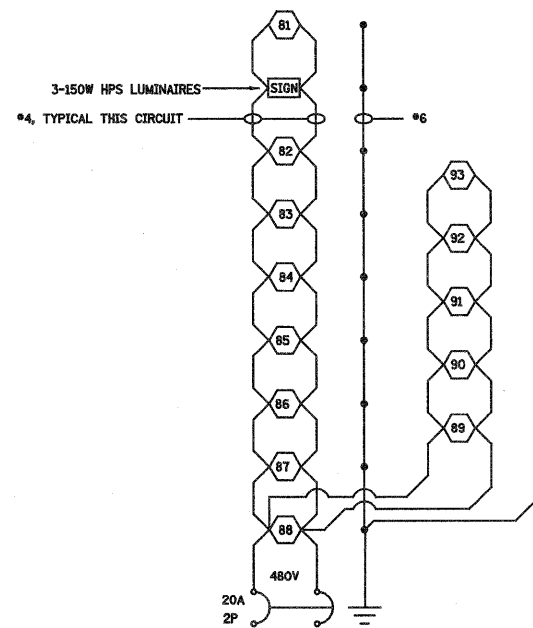


LIGHTING CKT 4
PROPOSED LIGHTING CONTROLLER NO. 1

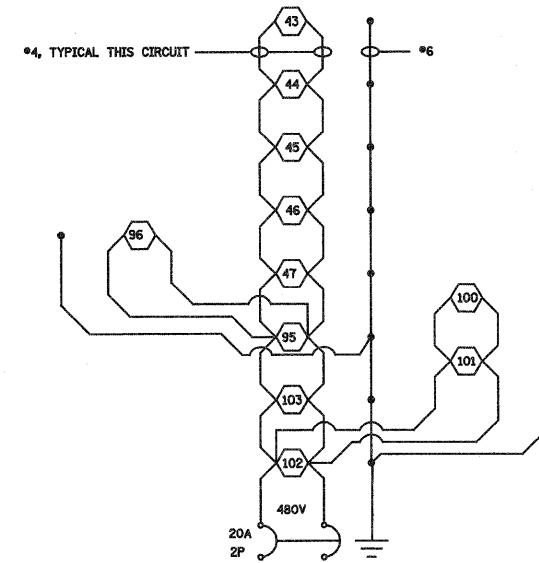
NOTES:

- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

-  400W ROADWAY LUMINAIRE
-  SIGN LIGHTING LUMINAIRE
-  150W UNDERPASS LUMINAIRE
-  JUNCTION BOX

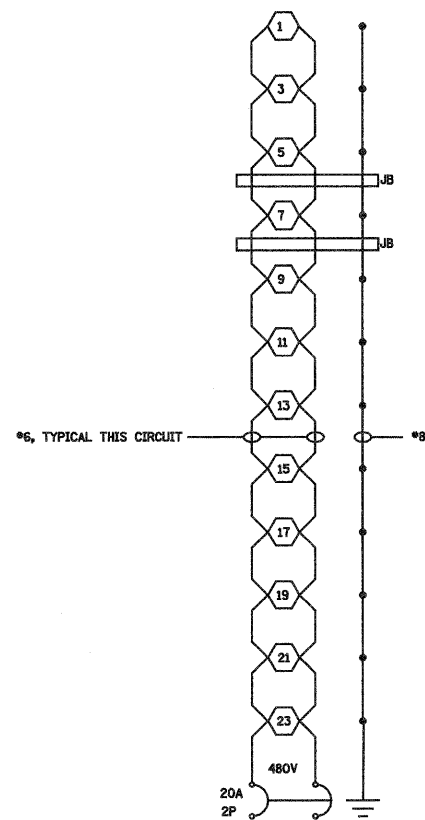


LIGHTING CKT 5
PROPOSED LIGHTING CONTROLLER NO. 1

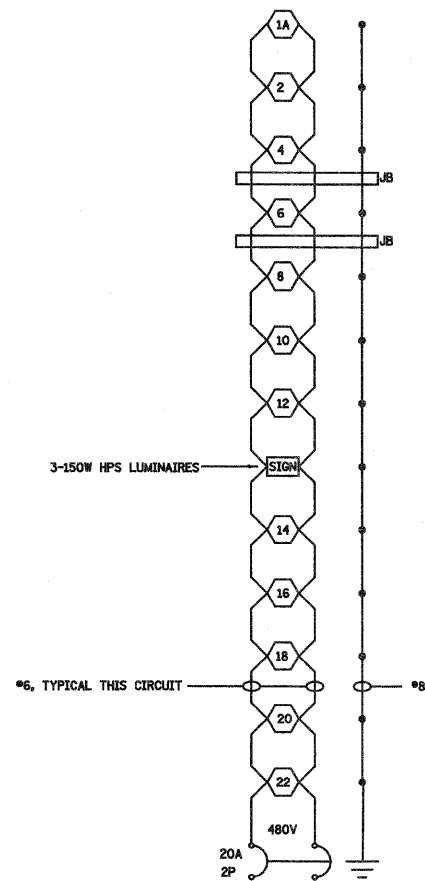


LIGHTING CKT 6
PROPOSED LIGHTING CONTROLLER NO. 1

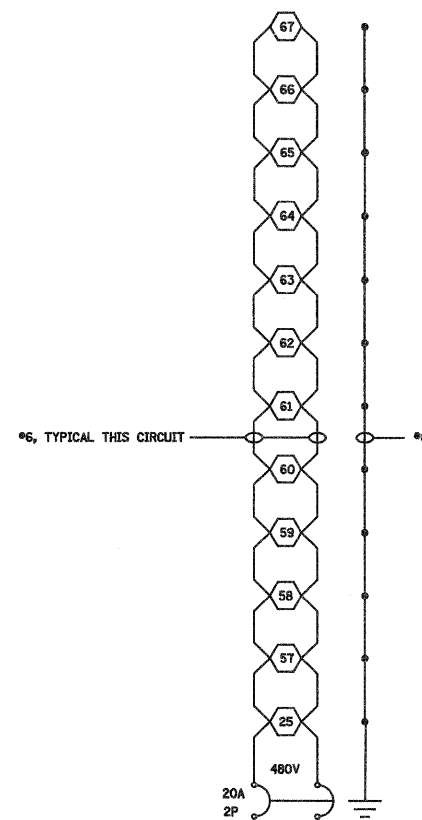
FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-08-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM CONTROLLER NO.1 SOUTH TRI LEVEL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Sn\Projects\403-00072.51-70\ dgn\ S Trilv\lighting det\ design		DRAWN -	REVISED -			57/70	(25-3)-6	EFFINGHAM	1416	414
		CHECKED -	REVISED -			SCALE: SHEET NO. 25 OF 34 SHEETS STA. TO STA.		CONTRACT NO. 74293		
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



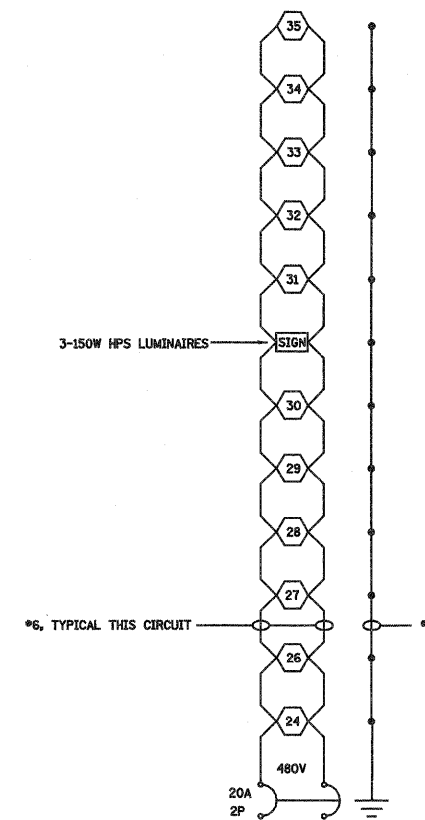
LIGHTING CKT 1
PROPOSED LIGHTING CONTROLLER NO. 2



LIGHTING CKT 2
PROPOSED LIGHTING CONTROLLER NO. 2



LIGHTING CKT 3
PROPOSED LIGHTING CONTROLLER NO. 2



LIGHTING CKT 4
PROPOSED LIGHTING CONTROLLER NO. 2

NOTES:

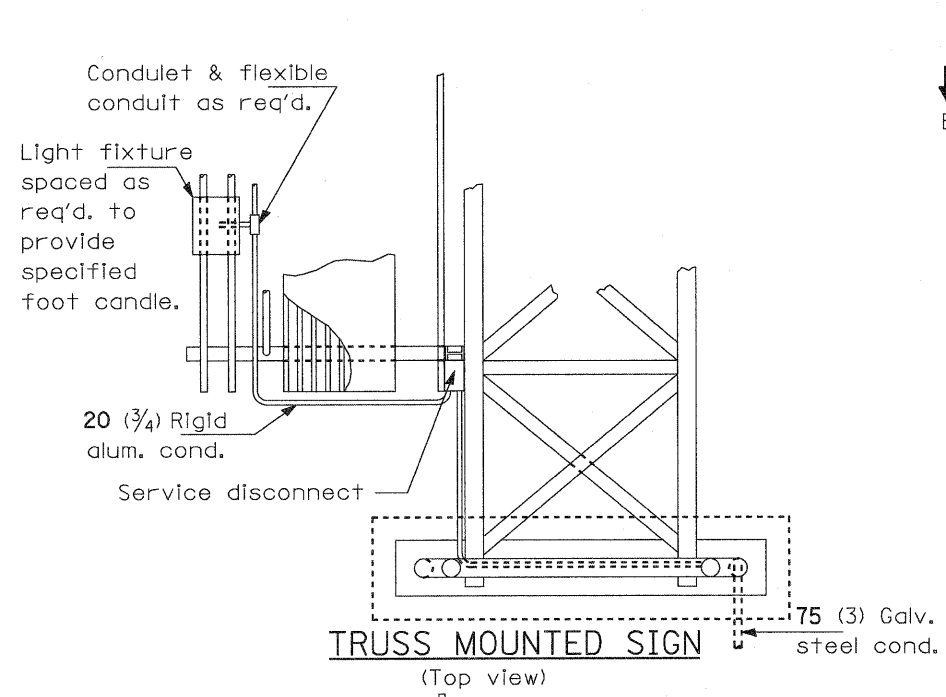
- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

⬡ 400W ROADWAY LUMINAIRE

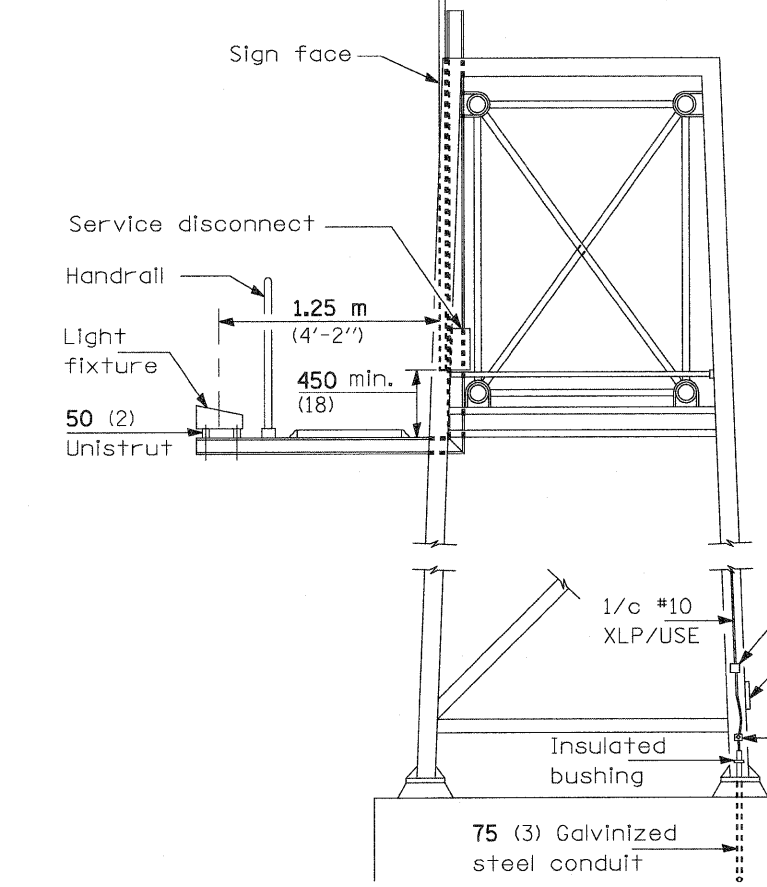
⬢ SIGN LIGHTING LUMINAIRE

▭ JUNCTION BOX

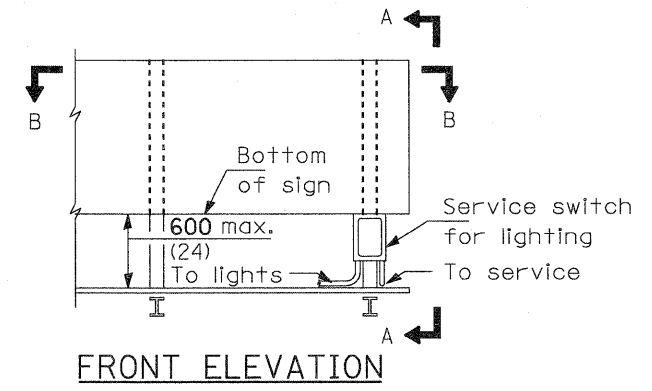
FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-08-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM CONTROLLER NO.2 SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SA\Projects\403-00072.51-70\dep\5 Tr.Lv\Lighting det.dgn		DRAWN -	REVISED -			57/70	(25-3)1-6	EFFINGHAM	1416	415
PLOT SCALE = 40,0000' / IN.		CHECKED -	REVISED -			SCALE: SHEET NO. 26 OF 34 SHEETS STA. TO STA.		CONTRACT NO. 74293		
PLOT DATE = 4/21/2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



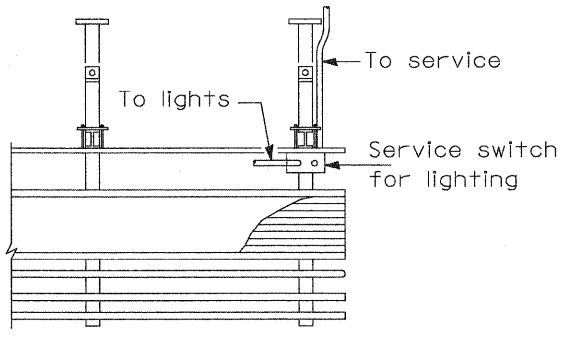
TRUSS MOUNTED SIGN
(Top view)



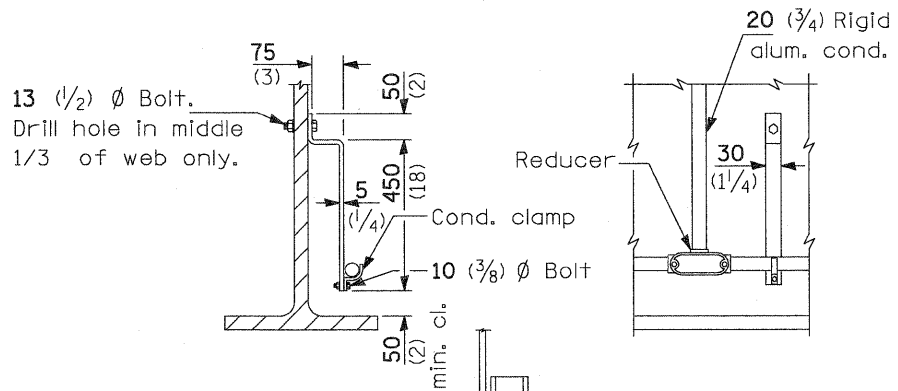
TRUSS MOUNTED SIGN
(Side elevation)



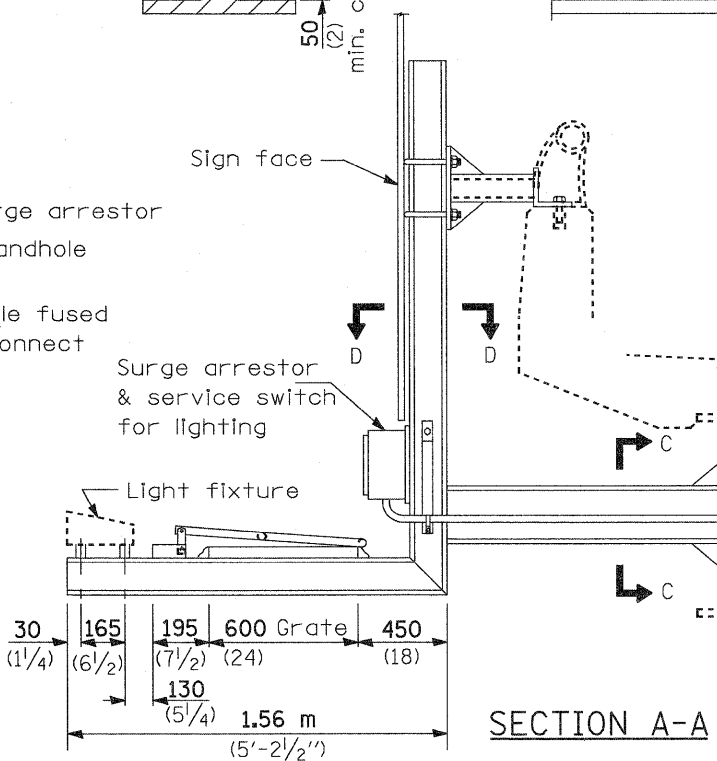
FRONT ELEVATION



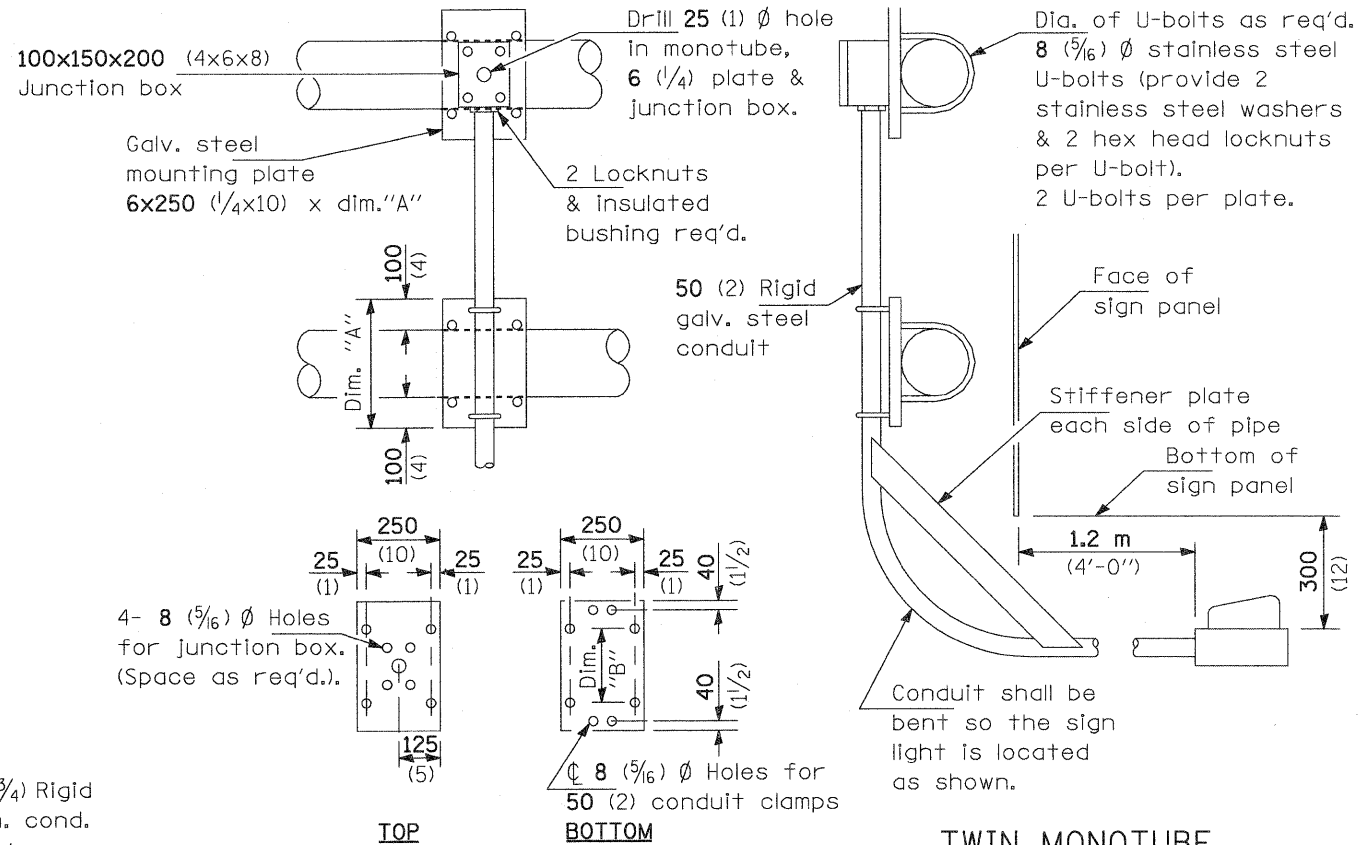
SECTION B-B



13 (1/2) Ø Bolt.
Drill hole in middle
1/3 of web only.



SECTION A-A



100x150x200 (4x6x8)
Junction box

Galv. steel
mounting plate
6x250 (1/4x10) x dim. "A"

Drill 25 (1) Ø hole
in monotube,
6 (1/4) plate &
junction box.

Diag. of U-bolts as req'd.
8 (5/16) Ø stainless steel
U-bolts (provide 2
stainless steel washers
& 2 hex head locknuts
per U-bolt).
2 U-bolts per plate.

50 (2) Rigid
galv. steel
conduit

Face of
sign panel

Stiffener plate
each side of pipe
Bottom of
sign panel

1.2 m
(4'-0")

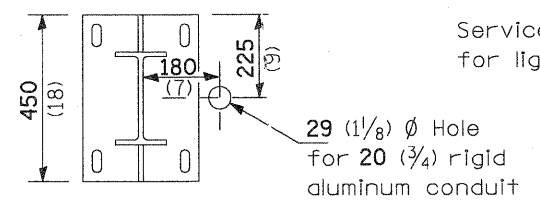
300
(12)

Conduit shall be
bent so the sign
light is located
as shown.

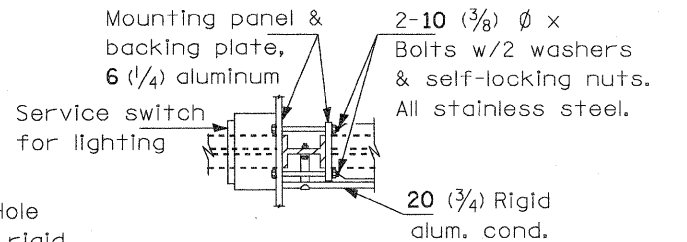
TWIN MONOTUBE

Dimension "A" = monotube dia. + 200 (8)
Dimension "B" = monotube dia. + 10 (3/8)

MOUNTING PLATES



SECTION C-C



SECTION D-D

GENERAL NOTES

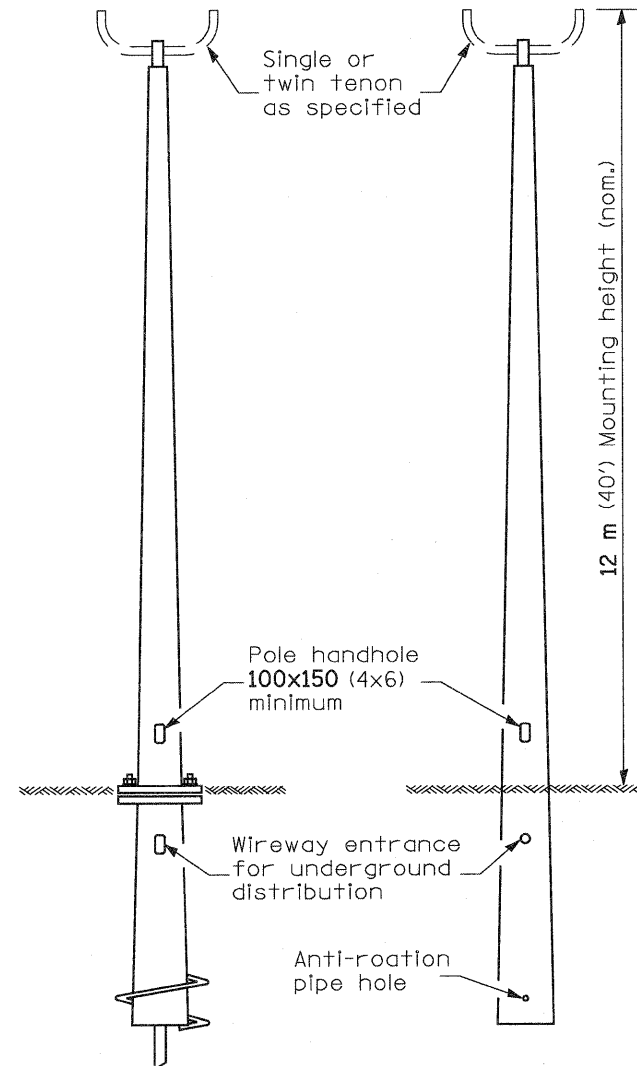
All sign lighting fixtures shall have a minimum of 3 mounting points.

All mounting hardware shall be stainless steel.

Service disconnect shall be stainless steel.

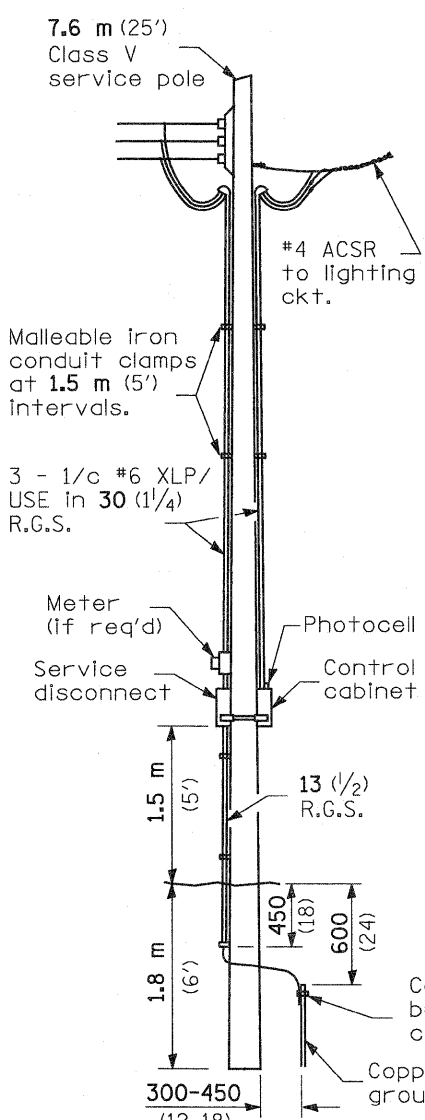
All dimensions are in millimeters (Inches) unless otherwise shown.

FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-08-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN LIGHTING DETAILS, SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\403-00072.51-TriLevel\Lighting details.dgn		DRAWN -	REVISED -			57/70	(25-3)I-6	EFFINGHAM	1416	416	
PLOT SCALE = 40.0000 / IN.		CHECKED -	REVISED -			CONTRACT NO. 74293					
PLOT DATE = 4/21/2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 27 OF 34 SHEETS	STA.	TO STA.			

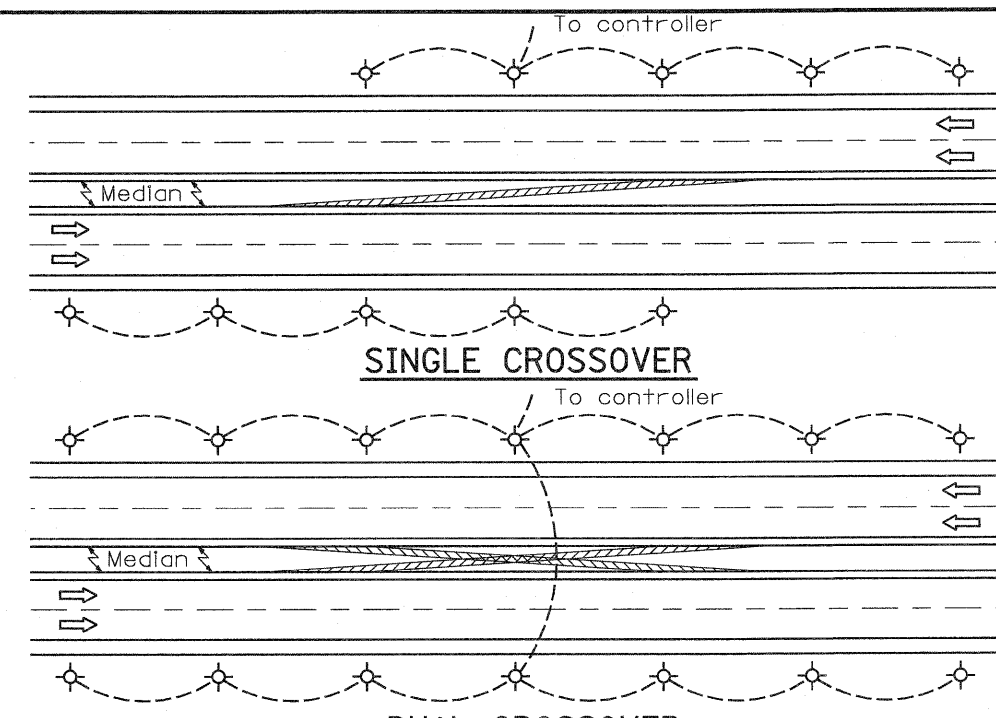


**ANCHOR BASE W/
METAL FOUNDATION** **BUTT BASE**

**POLE, FIBERGLASS
BREAKAWAY TYPE**



**SERVICE
INSTALLATION**



SINGLE CROSSOVER

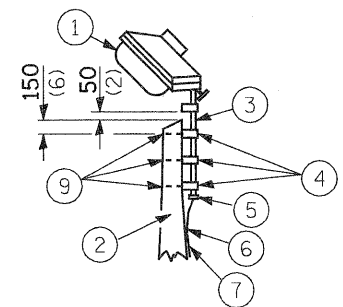
DUAL CROSSOVER

NOTE:
Min. Pole spacing 60 m (200')
Max. Pole spacing 75 m (250')

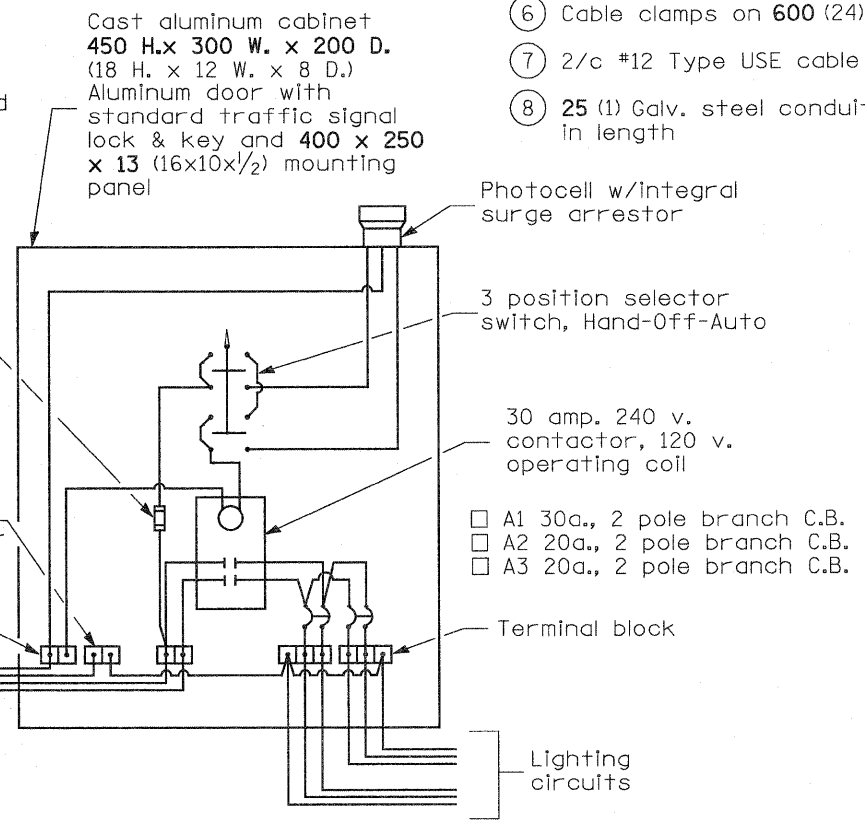
Setback shall be min. 9 m (30')
or 1.5 m (5') back of ditch, unless
breakaway type pole is used.

- 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

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.

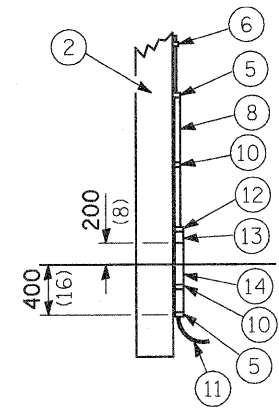


- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



WIRING DIAGRAM

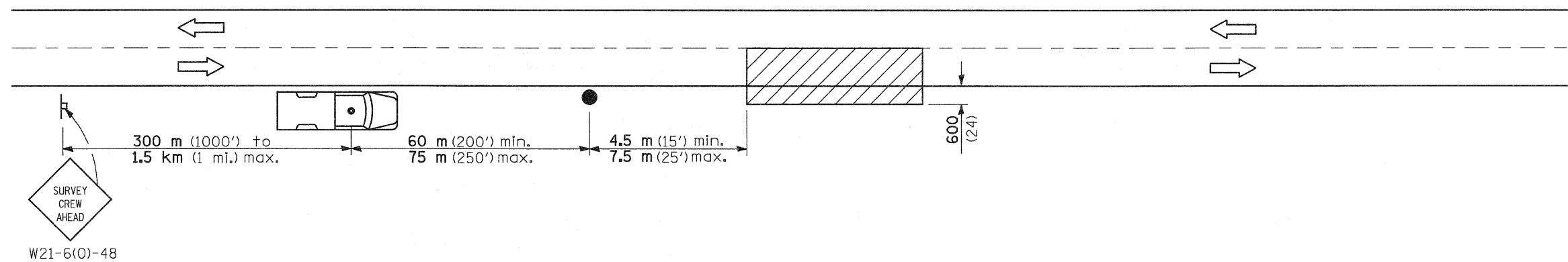
NOTE:
All equipment shall be U.L. approved.
* 30 A. or 60 A., dependent upon utility co. rules.



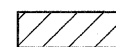
POLE, WOOD

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.



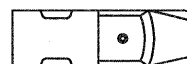
SYMBOLS



Work area



Sign on portable or permanent support



Truck with flashing amber light and dual emergency flashers



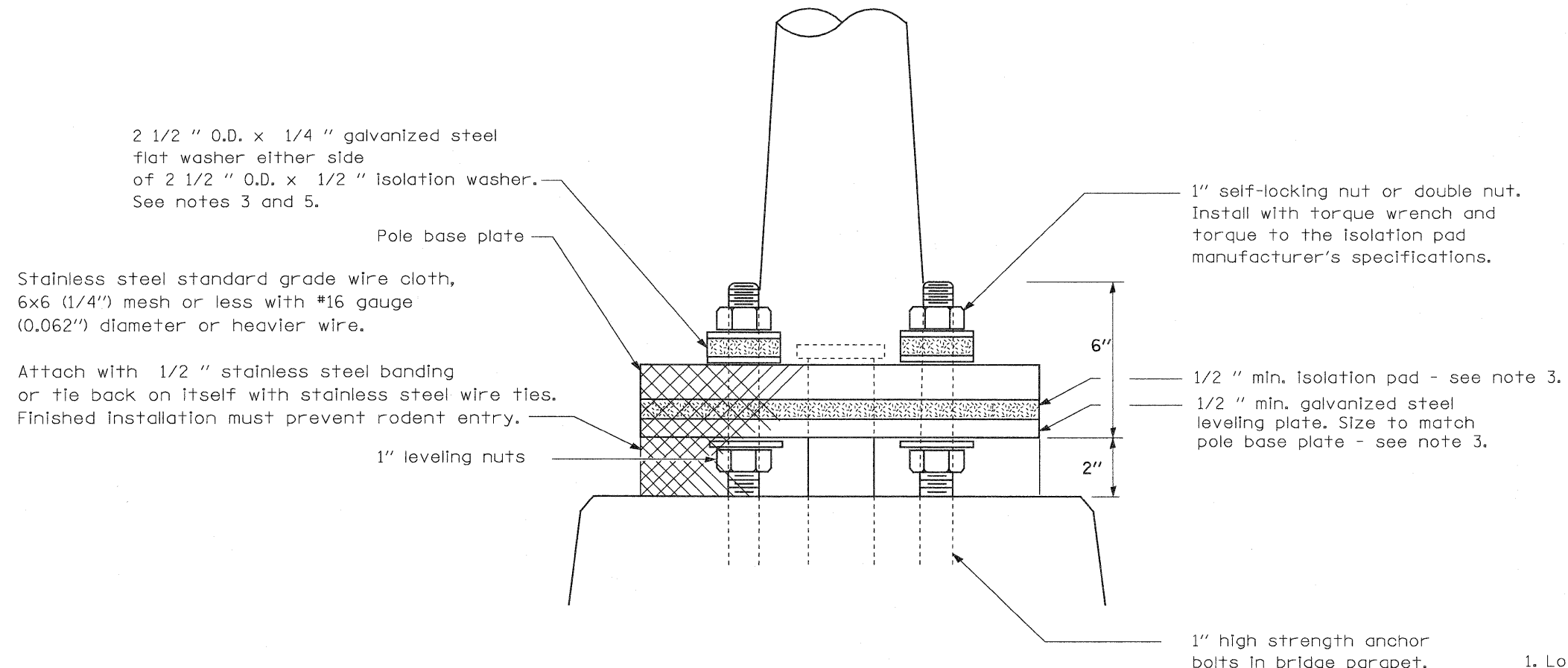
Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

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

FILE NAME =	USER NAME = paul	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR NIGHTTIME LIGHTING INSPECTION, SOUTH TRI LEVEL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\403-00072-57-70\dgn\5 Trl\Lighting detail.dgn		DRAWN -	REVISED -			57/70	(25-3)-6	EFFINGHAM	1416	418	
PLOT SCALE = 48,0000' / IN.		CHECKED -	REVISED -			SCALE: SHEET NO. 29 OF 34 SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 74293	
PLOT DATE = 3/19/2010		DATE -	REVISED -								



2 1/2 " O.D. x 1/4 " galvanized steel flat washer either side of 2 1/2 " O.D. x 1/2 " isolation washer. See notes 3 and 5.

Pole base plate

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.

1" leveling nuts

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

1/2 " min. isolation pad - see note 3.

1/2 " min. galvanized steel leveling plate. Size to match pole base plate - see note 3.

1" high strength anchor bolts in bridge parapet.

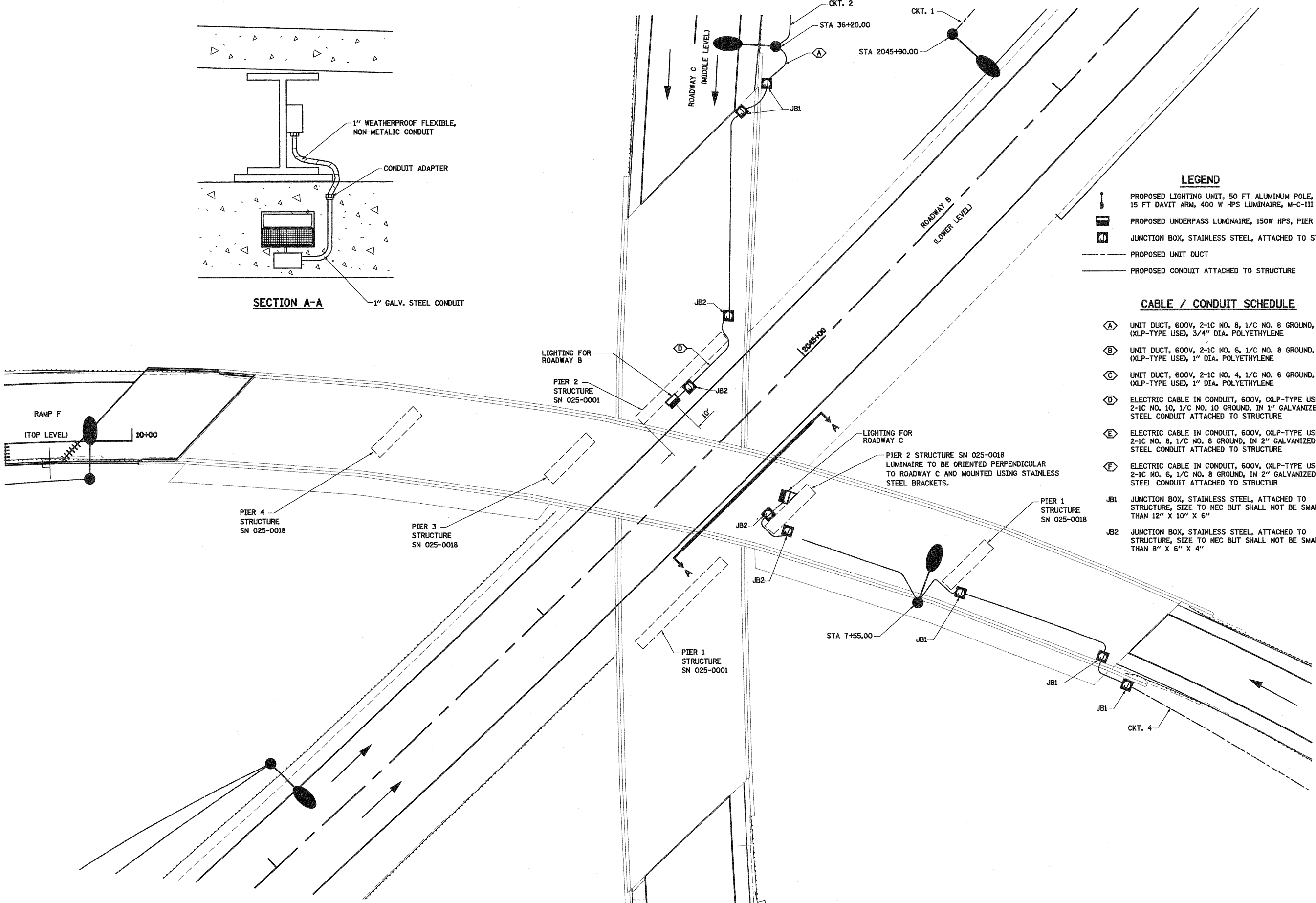
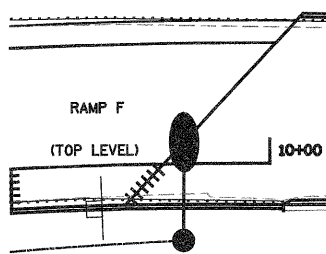
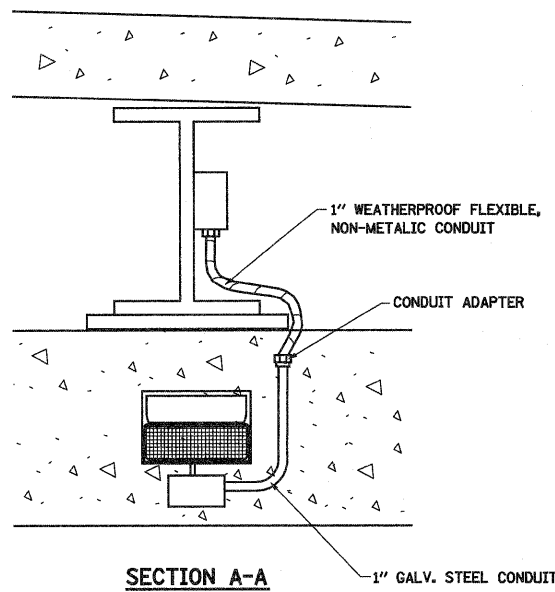
Pole Mounted on Bridge Parapet Detail

GENERAL NOTES

1. Locate poles over bridge piers where possible.
2. The vibration isolation pad and leveling plate shall match the footprint of the pole base plate.
3. Thickness of isolation pad and washers shall be according to the isolation pad manufacturer's recommendations based upon pole height and loading.
4. Should the length of the exposed anchor bolts be too short on an existing bridge to mount the poles as shown, then the leveling plate shall be mounted directly on the concrete and leveled with stainless steel washers. Remove concrete as directed by the Engineer to fully thread the top nut.
5. The diameter of the flat washer on either side of isolation washer shall be at least the same as diameter of isolation washer.

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

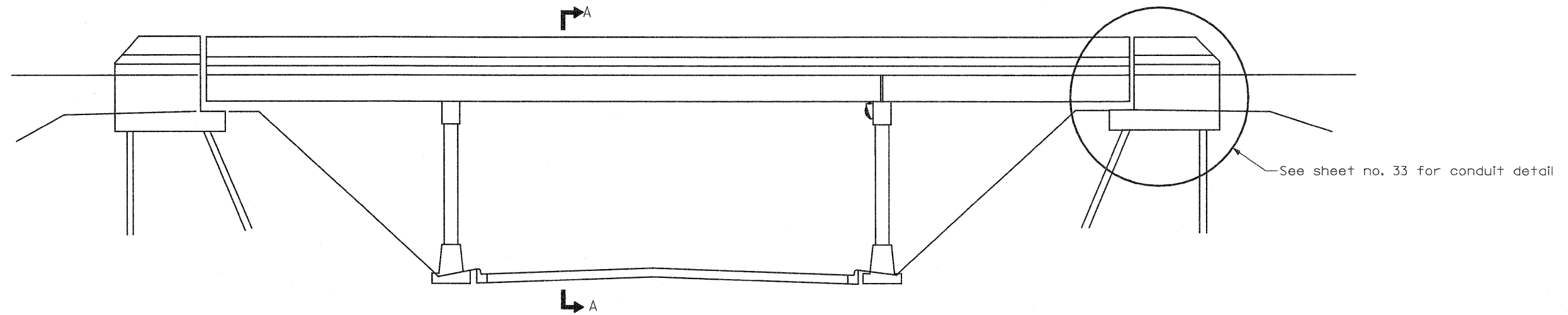
FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	POLE MOUNTED ON BRIDGE PARAPET, SOUTH TRI LEVEL	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SA\Projects\403-00072.57-70\ dgn\5 Trl\Lighting detail.dgn		DRAWN -	REVISED -			57/70	(25-3)I-6	EFFINGHAM	1416	419	
PLOT SCALE = 40.0000 ' / IN.		CHECKED -	REVISED -			SCALE: SHEET NO. 30 OF 34 SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 74293	
PLOT DATE = 4/27/2010		DATE -	REVISED -								



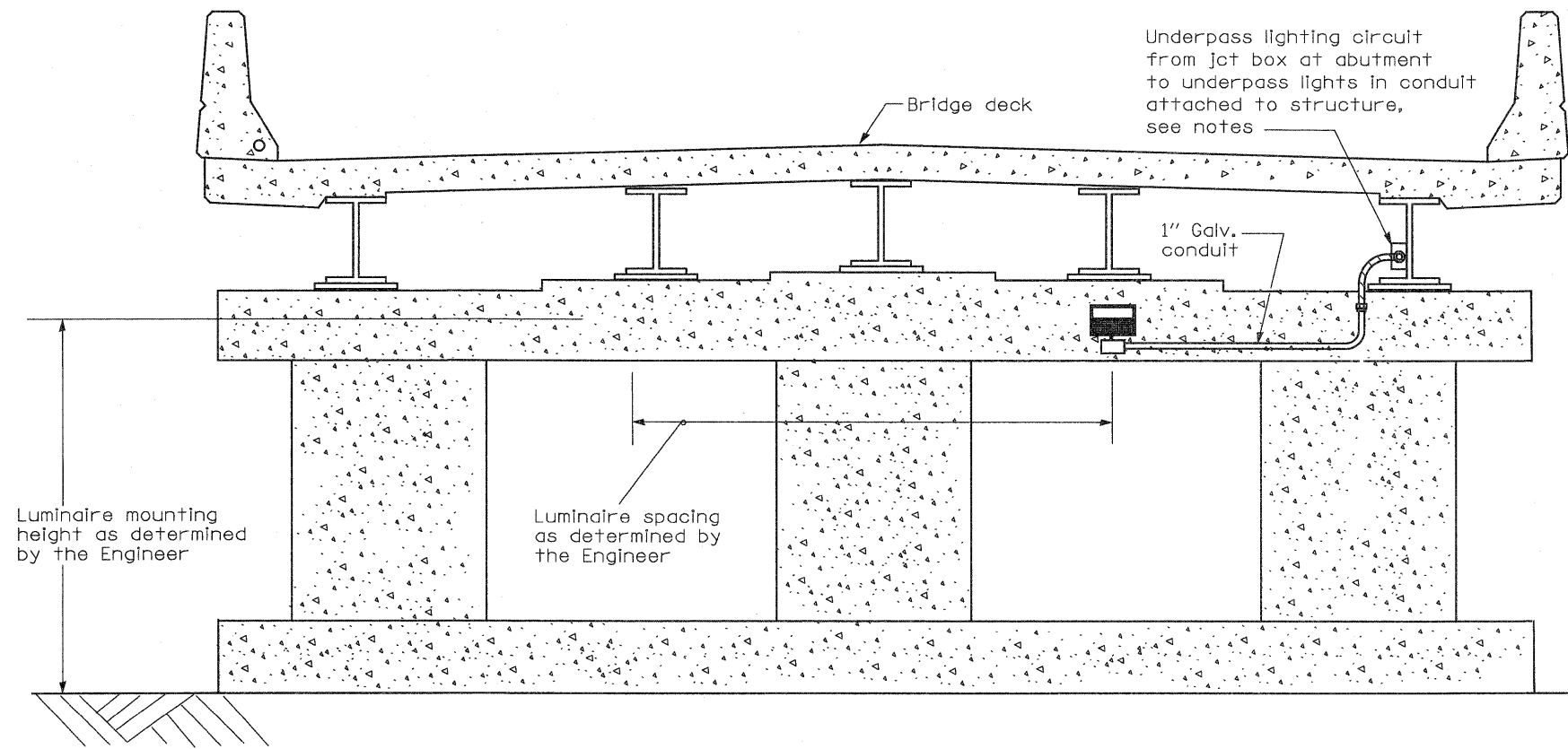
- LEGEND**
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400 W HPS LUMINAIRE, M-C-III
 - PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
 - JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS NOTED
 - PROPOSED UNIT DUCT
 - PROPOSED CONDUIT ATTACHED TO STRUCTURE

- CABLE / CONDUIT SCHEDULE**
- (A)** UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
 - (B)** UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
 - (C)** UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
 - (D)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 10, 1/C NO. 10 GROUND, IN 1" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
 - (E)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 1/C NO. 8 GROUND, IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
 - (F)** ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND, IN 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
 - JB1** JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE TO NEC BUT SHALL NOT BE SMALLER THAN 12" X 10" X 6"
 - JB2** JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE TO NEC BUT SHALL NOT BE SMALLER THAN 8" X 6" X 4"

FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED UNDERPASS LIGHTING PLAN DETAIL SOUTH TRI LEVEL		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072.57-70\dm\5 Tr Lvl Lighting detail.dgn		DRAWN -	REVISED -		57/70	(25-3)-6	EFFINGHAM	1416	420		
		CHECKED -	REVISED -		SCALE: SHEET NO. 31 OF 34 SHEETS STA. TO STA.		CONTRACT NO. 74293		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 74293		



OVERPASS ELEVATION
(Not to Scale)



Section A-A
(Underpass Lighting on Pier)

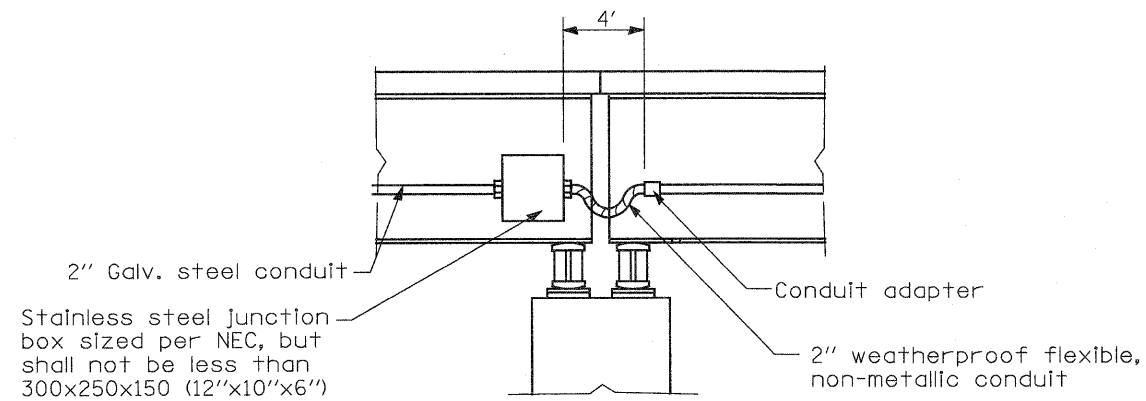
GENERAL NOTES

Conduit and wiring from junction box at bridge abutment or parapet mounted pole to the underpass luminaire(s) shall be incidental to the cost of the underpass luminaire(s). This includes all appurtenances including, but not limited to; straps, clamps, hangers, fittings, attachments, hardware, junction boxes, etc.

Conduit attached to structure shall be rigid galvanized conduit unless noted otherwise. All hardware shall be stainless steel and all conduit appurtenances, as noted above, shall be hot dip galvanized or stainless steel.

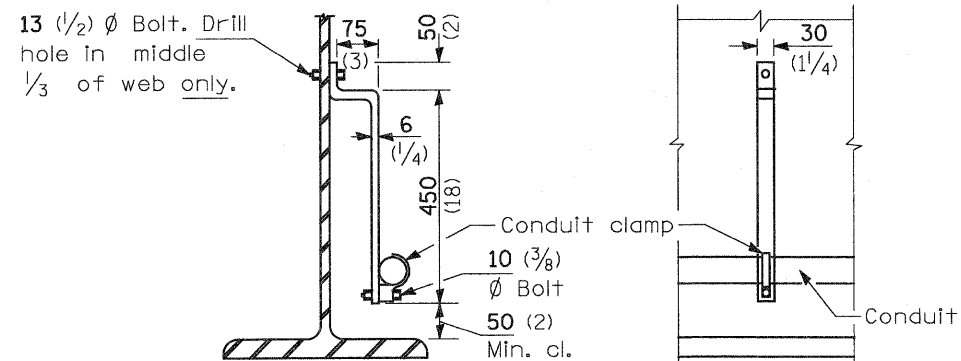
A stainless steel junction box and flex conduit shall be installed in the conduit at any opening in the bridge deck where road salt can run down onto the conduit system. Routing and method of attachment of the conduit on the bridge structure and across piers shall be as approved by the Engineer.

FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UNDERPASS LIGHTING, OUTSIDE PIERS, SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
St\Projects\403-00072.51-70\den\S Tri LV Lighting detail.dgn		DRAWN -	REVISED -			57/70	(25-3)I-6	EFFINGHAM	1416	421	
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -			SCALE: SHEET NO. 32 OF 34 SHEETS STA. TO STA.		CONTRACT NO. 74293			
PLOT DATE = 4/27/2010		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

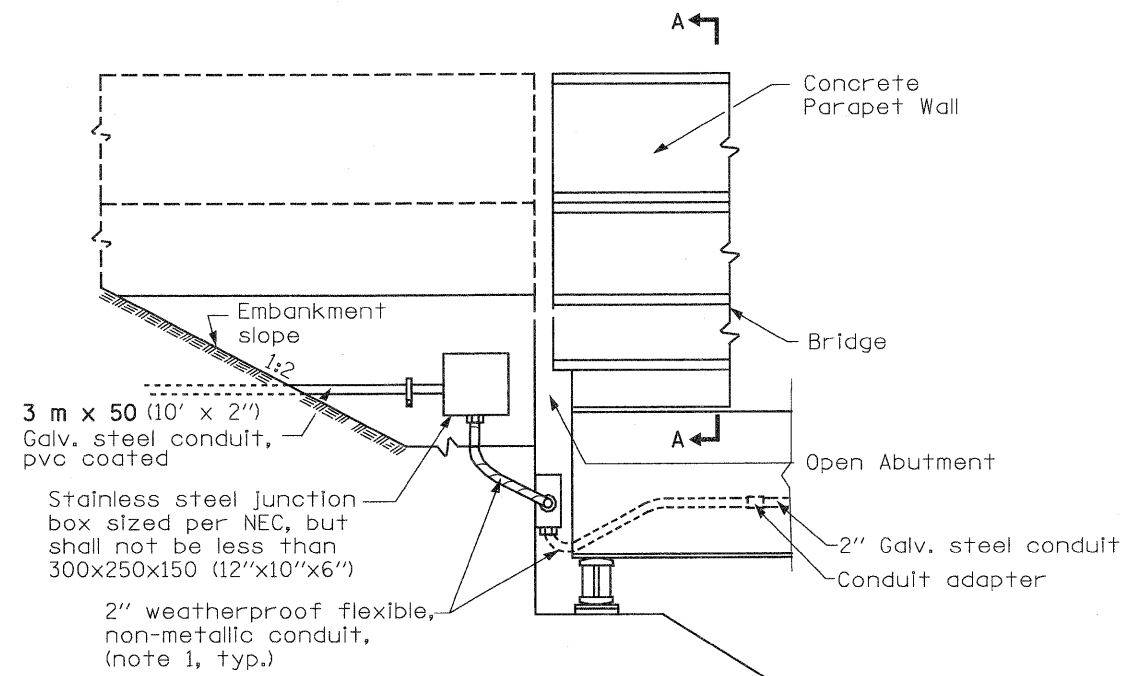


BRIDGE EXPANSION JOINT CROSSING DETAIL
not to scale

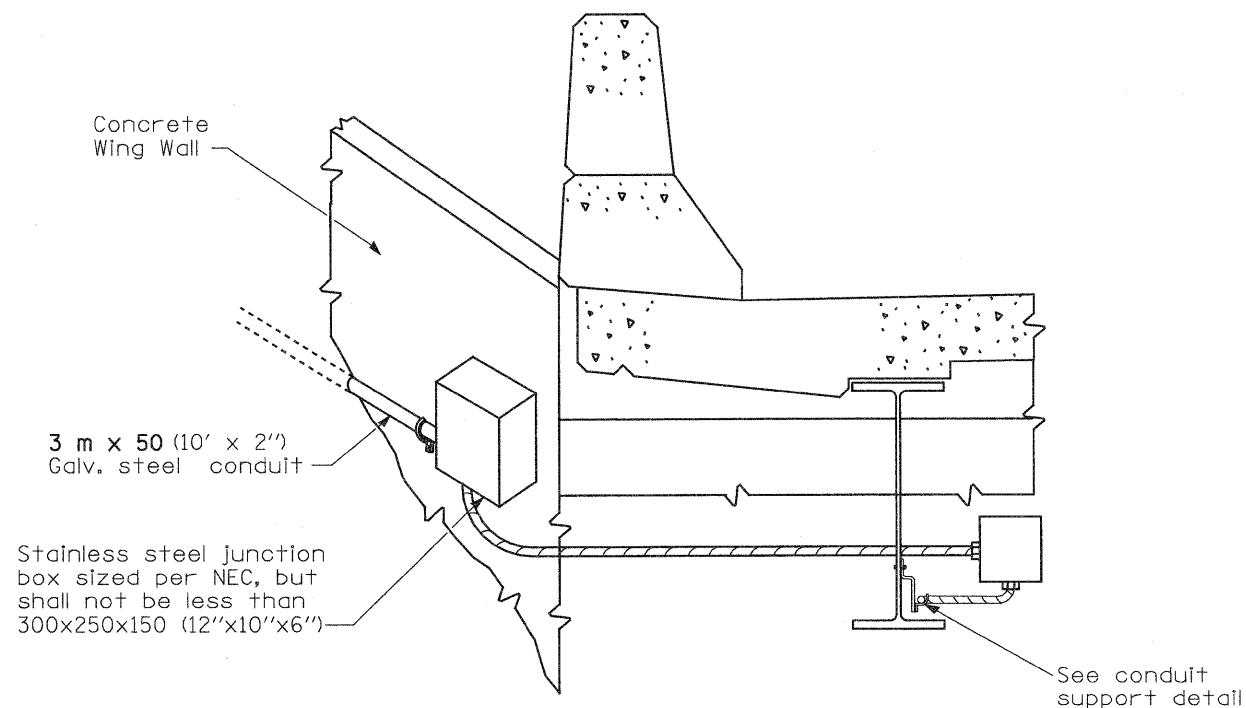
NOTE:
Conduit installation method shown in this detail shall be used at all bridge expansion joint crossings.



CONDUIT SUPPORT BRACKET



CONDUIT DETAIL
(Open Abutment)
not to scale



SECTION A-A

- NOTE:
1. LFNC shall be resistant to oil, water, chemical, and UV and shall be suitable for outdoor, direct bury, and extreme cold use according to NEC ART. 356.
 2. LFNC length shall not exceed 6'.

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

FILE NAME =	USER NAME = paul	DESIGNED -	REVISED - 04-26-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE CROSSING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\403-00072.57-70\dm\VS Trl\Lighting detail.dgn		DRAWN -	REVISED -					57/70	(25-3)-6	EFFINGHAM	1416	422
		CHECKED -	REVISED -		SCALE: SHEET NO. 33 OF 34 SHEETS STA. TO STA.			CONTRACT NO. 74293				
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - CONVENTIONAL

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36	FT
	Number Of Lanes	3	
	Median Width		FT
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	50	FT
	Mast Arm Length	15	FT
	Pole Set-Back From Edge Of Pavement	20	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	50000	
	IES Vertical Distribution	M	
	IES Control Of Distribution	FC	
	IES Lateral Distribution	3	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	240	FT
	Configuration	One Side	
	Luminaire Overhang Over Edge Of Pavement Lane	-5	FT

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

PERFORMANCE REQUIREMENTS

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

ILLUMINATION:	Average Horizontal Illumination, (E _{Ave})	0.90	fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0	
LUMINANCE:	Average Luminance: (L _{Ave})	0.60	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	

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - UNDERPASS

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24	FT
	Number Of Lanes	2	
	Median Width	N/A	
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	15	FT
	Mast Arm Length		
	Pole Set-Back From Edge Of Pavement	6	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	16,000	
	IES Vertical Distribution	Very Short	
	IES Control Of Distribution	Non-Cutoff	
	IES Lateral Distribution	4	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	45	FT
	Configuration	Single Side	
	Luminaire Overhang Over Edge Of Pavement Lane	-6	FT

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

PERFORMANCE REQUIREMENTS

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

ILLUMINATION:	Average Horizontal Illumination, (E _{Ave})	1.35	fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0	
LUMINANCE:	Average Luminance: (L _{Ave})	0.9	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	

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - TEMPORARY

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24	FT
	Number Of Lanes	2	
	Median Width		FT
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	45	FT
	Mast Arm Length		FT
	Pole Set-Back From Edge Of Pavement	30	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	28000	
	IES Vertical Distribution	M	
	IES Control Of Distribution	NC	
	IES Lateral Distribution	3	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	240	FT
	Configuration	One Side	
	Luminaire Overhang Over Edge Of Pavement Lane	-30	FT

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

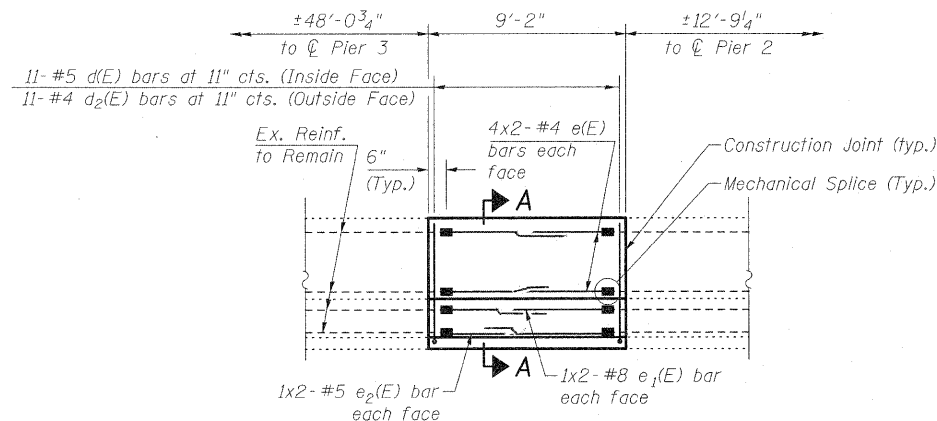
PERFORMANCE REQUIREMENTS

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

ILLUMINATION:	Average Horizontal Illumination, (E _{Ave})	0.60	fc
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0	
LUMINANCE:	Average Luminance: (L _{Ave})	0.40	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})	0.4	

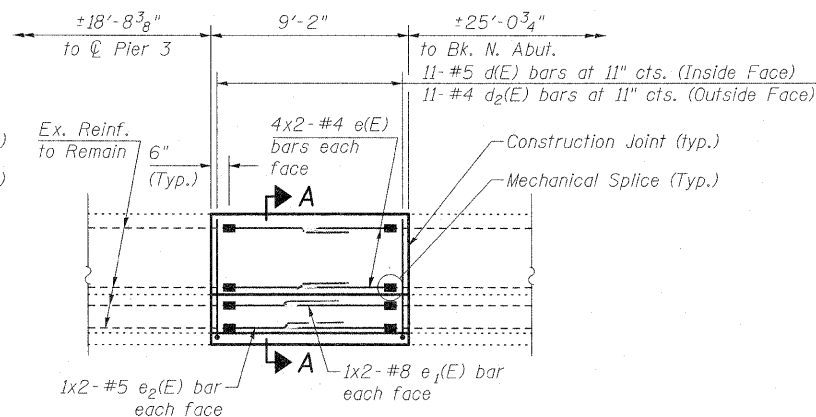
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Note: See Sheet 3 of 4 for Section A-A.



EAST PARAPET ELEVATION

Dimensions are along the length of the parapet.



WEST PARAPET ELEVATION

Dimensions are along the length of the parapet.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

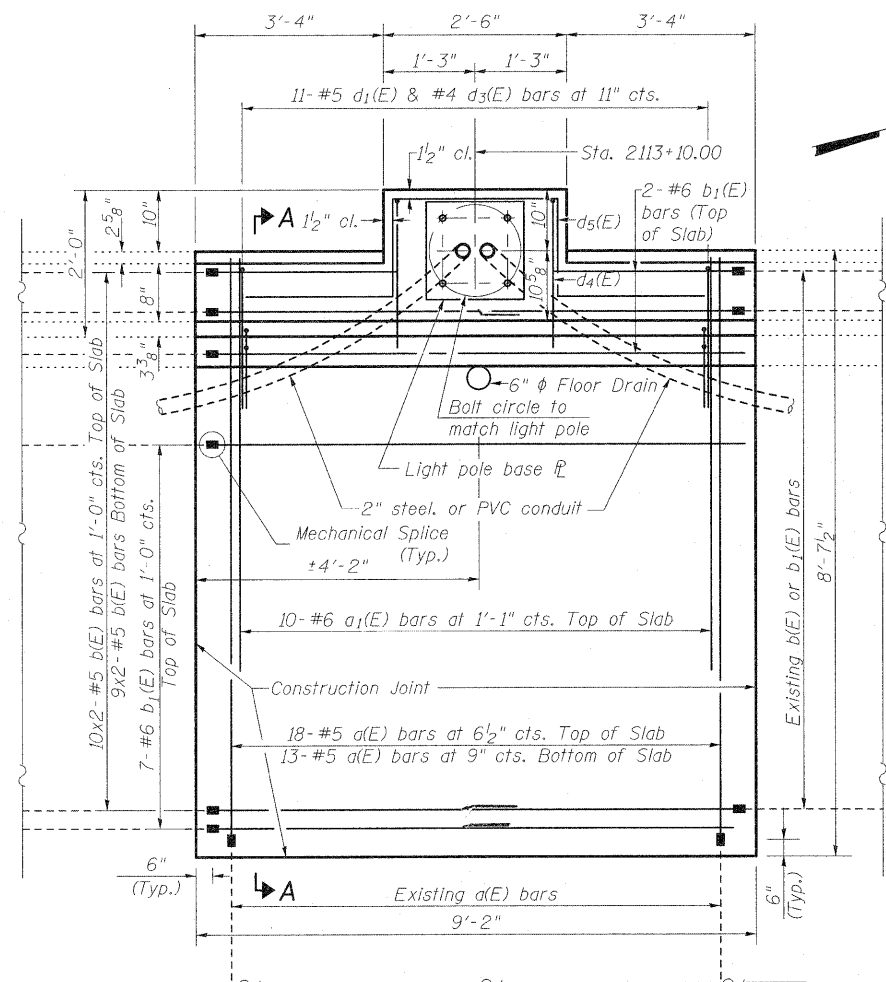
All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Floor Drains.

The SSPC-QP1 and SSPC-QP2 Painting Contractor Certifications will not be required for this bridge.

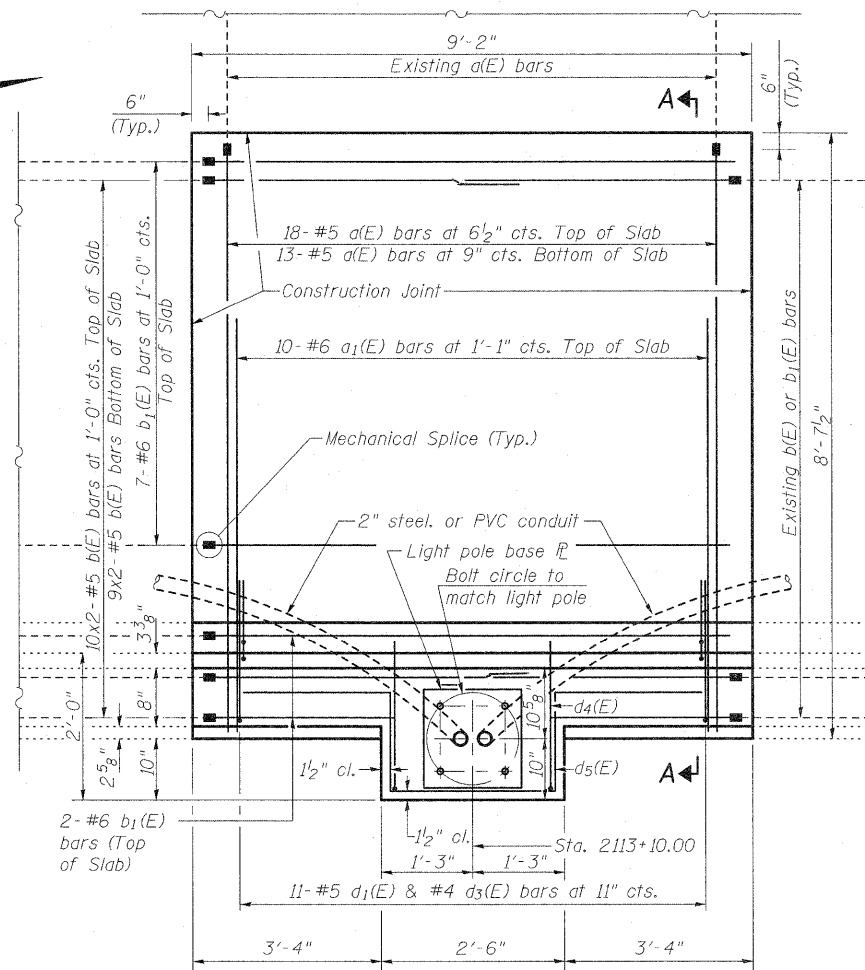
Floor drain removal included in the cost of Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09 (e) (1) of the Standard Specifications. Cost included with Concrete Structures.

Bars indicated thus 4 x 2 - #4 etc. indicates 4 lines of bars with 2 bars per line.



DETAIL A



DETAIL B

MINIMUM BAR LAP

- #4 bar = 2'-0"
- #5 bar = 2'-6"
- #6 bar = 3'-0"
- #8 bar = 5'-2"

PARAPET DETAILS
S.N. 025-0099 & 025-0100

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

Note:
Cost of anchor rods and conduit is included with Concrete Superstructure.

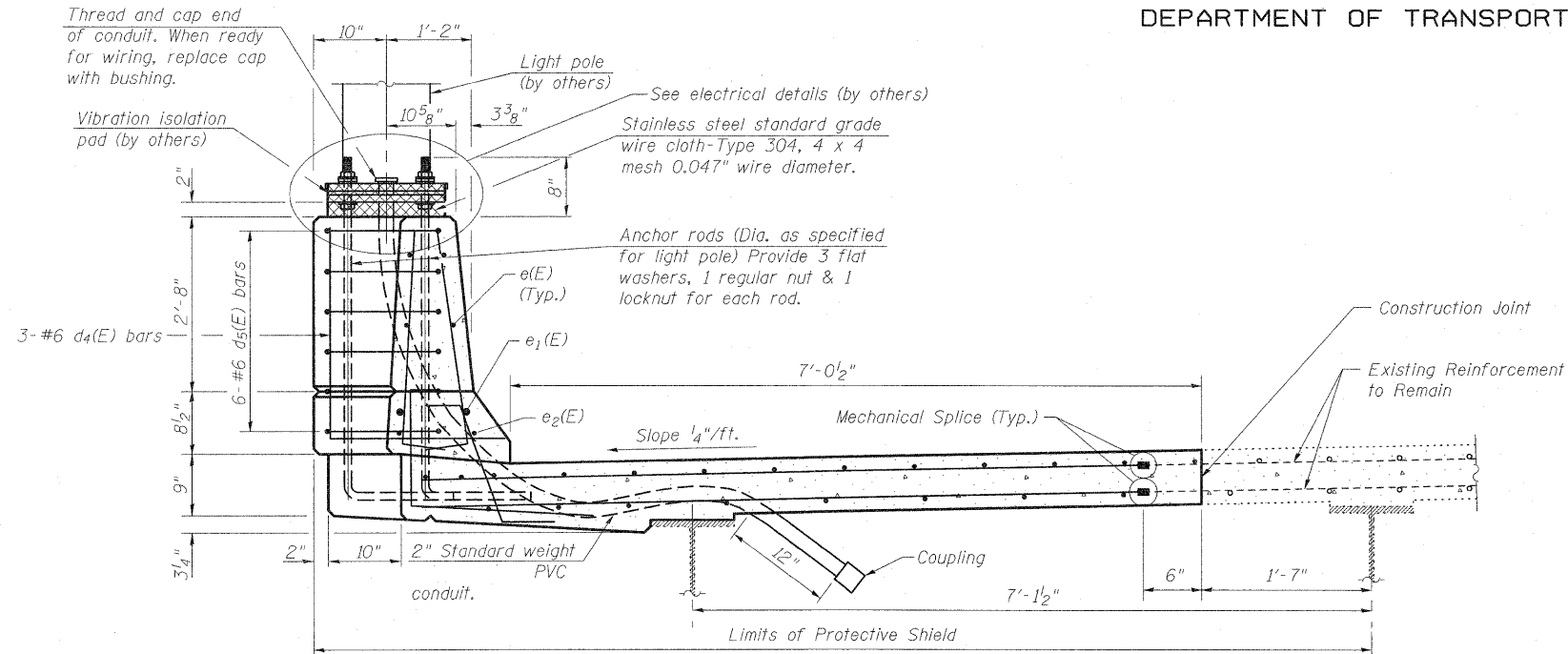


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

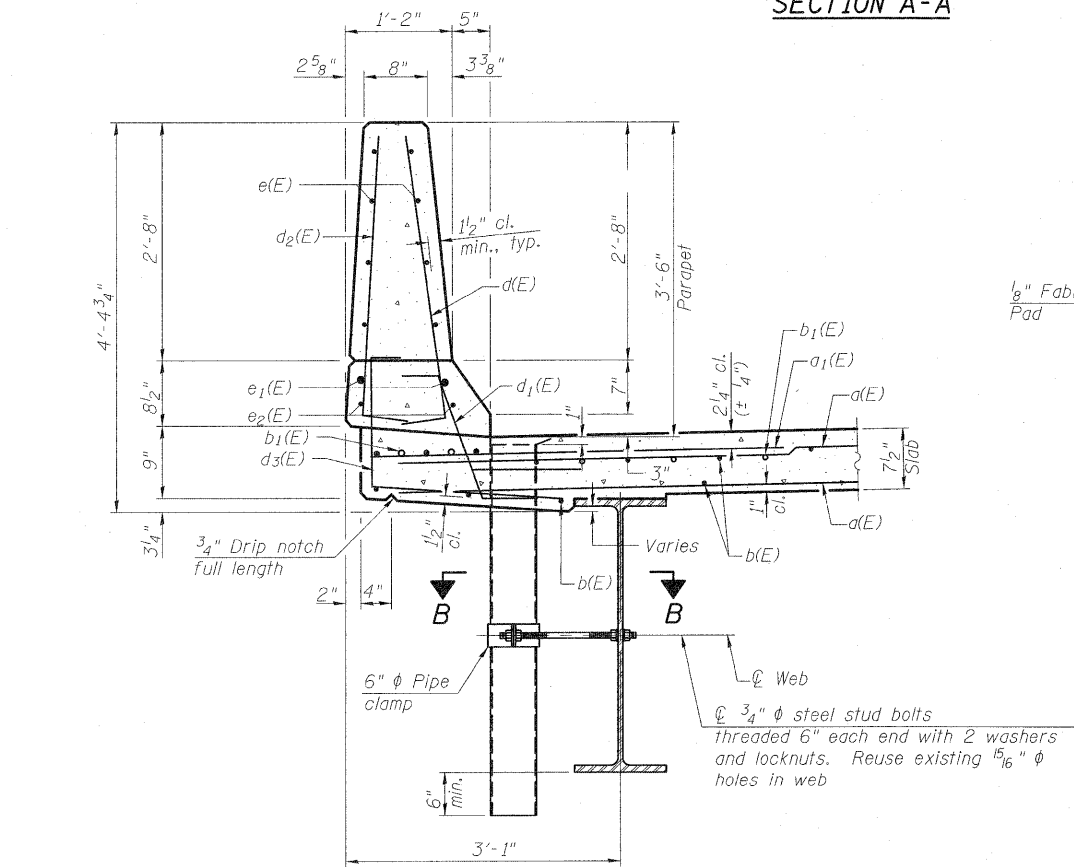
3 Oak Drive
Maryville, IL 62062-5655
Local (618) 298-4665
Fax 618-298-4666

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)R, BY	EFFINGHAM	1416	425
4 SHEETS	SN 025-0099 & 025-0100		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

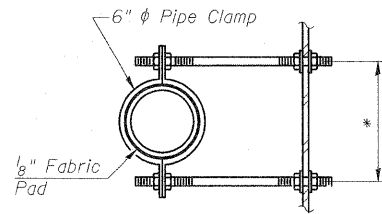


SECTION A-A



SECTION THRU PARAPET

(drain replacement on W. Parapet only)

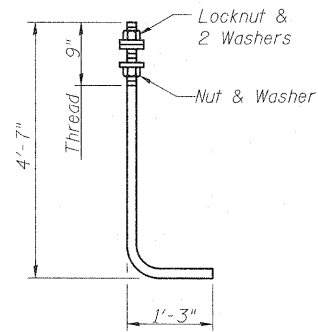


SECTION B-B

* Dimension as required by Pipe Clamp

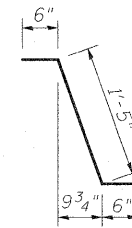
Notes:

The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

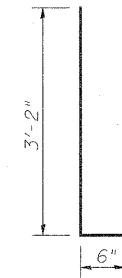


ANCHOR ROD

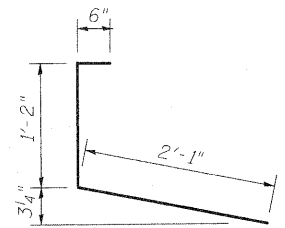
Diameter as specified for light poles.
(ASTM F 1554 Grade 105)



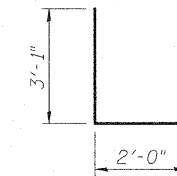
BAR d₁(E)



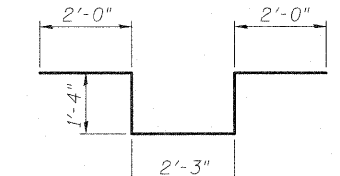
BAR d(E) & d₂(E)



BAR d₃(E)



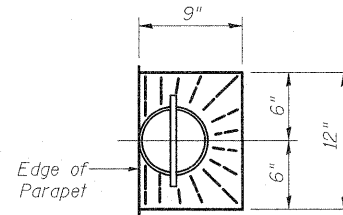
BAR d₄(E)



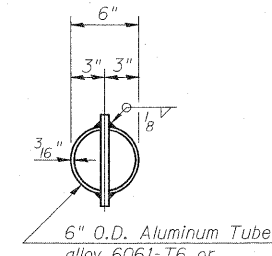
BAR d₅(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	62	#5	7'-10"	—	
a ₁ (E)	20	#6	4'-6"	—	
b(E)	76	#5	5'-4"	—	
b ₁ (E)	18	#6	8'-6"	—	
d(E)	22	#5	3'-8"	—	
d ₁ (E)	22	#5	2'-5"	—	
d ₂ (E)	22	#4	3'-8"	—	
d ₃ (E)	22	#4	3'-9"	—	
d ₄ (E)	6	#6	5'-1"	—	
d ₅ (E)	12	#6	8'-11"	—	
e(E)	32	#4	5'-1"	—	
e ₁ (E)	8	#8	6'-8"	—	
e ₂ (E)	8	#5	5'-4"	—	
Concrete Removal				Cu. Yd.	6.5
Concrete Superstructure				Cu. Yd.	7.2
Reinforcement Bars, Epoxy Coated				Pound	2050

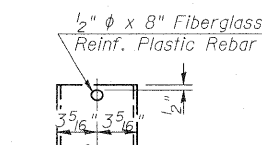


TOP PLAN

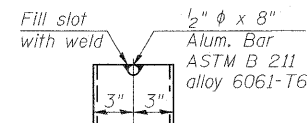


TOP PLAN

(Showing Aluminum Tube)



FIBERGLASS PIPE



ALUMINUM TUBE

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

PARAPET DETAILS
S.N. 025-0099 & 025-0100



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

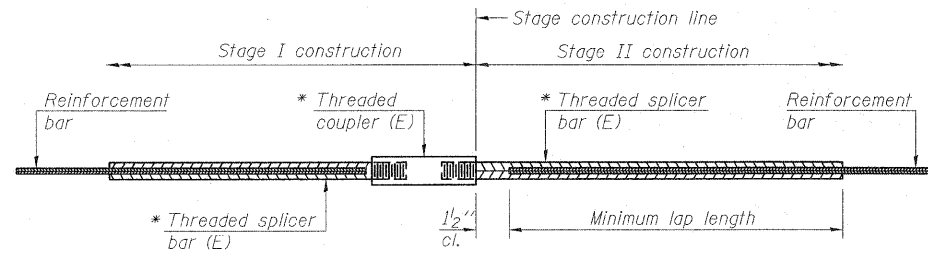
3 Oak Drive
Maryville, IL 62862-5655
Local (618) 388-4665
Fax 618-298-4665

SHEET NO. 3

4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)R, BY	EFFINGHAM	1416	426
SN 025-0099 & 025-0100		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

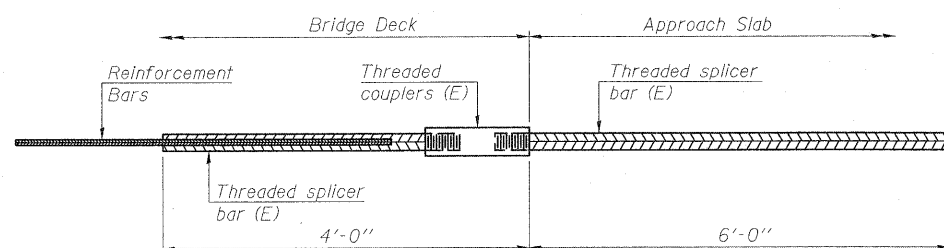
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

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

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

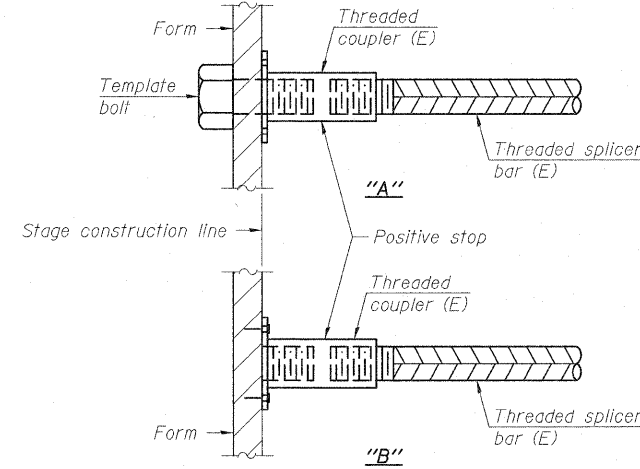
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



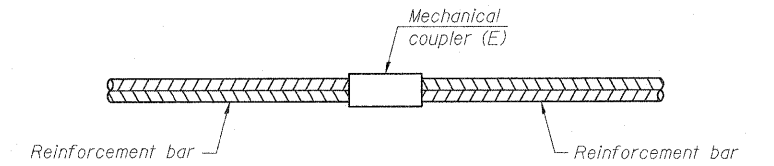
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



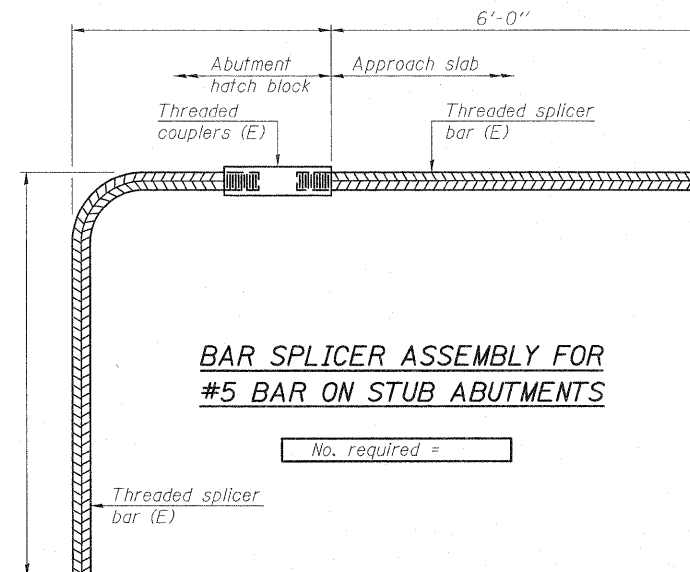
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Parapet	#4	32
Parapet	#5	8
Parapet	#8	8
Deck	#5	138
Deck	#6	18



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 AND MECHANICAL SPLICER DETAILS
S.N. 025-0099 & 025-0100

DESIGNED	
CHECKED	
DRAWN	B.B.
CHECKED	C.J.F. & B.B.

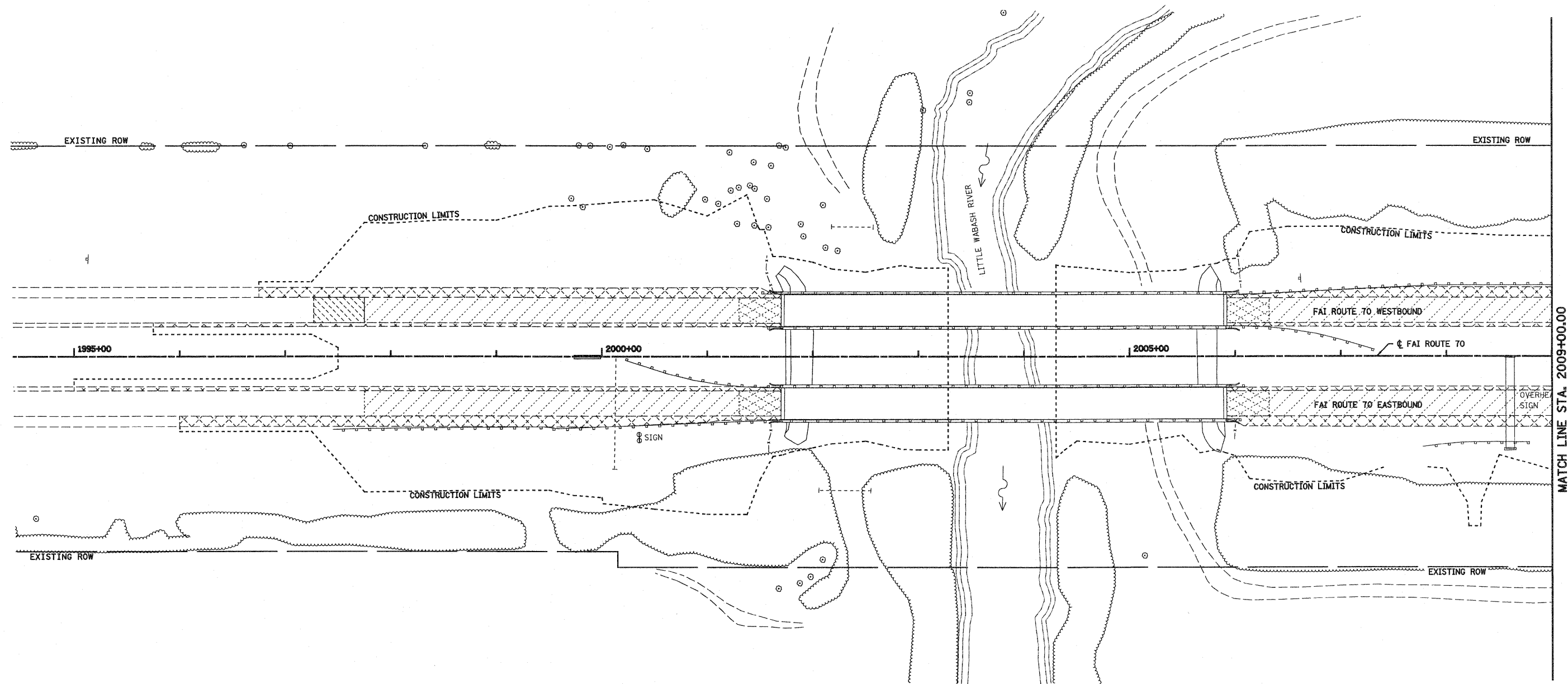
BSD-1 11-1-09



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Merrville, IL 62962-4635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 4 4 SHEETS	F.A.I. RTE. 70	SECTION (25-3)R, BY	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 426A
	SN 025-0099 & 025-0100 CONTRACT NO. 74296			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	



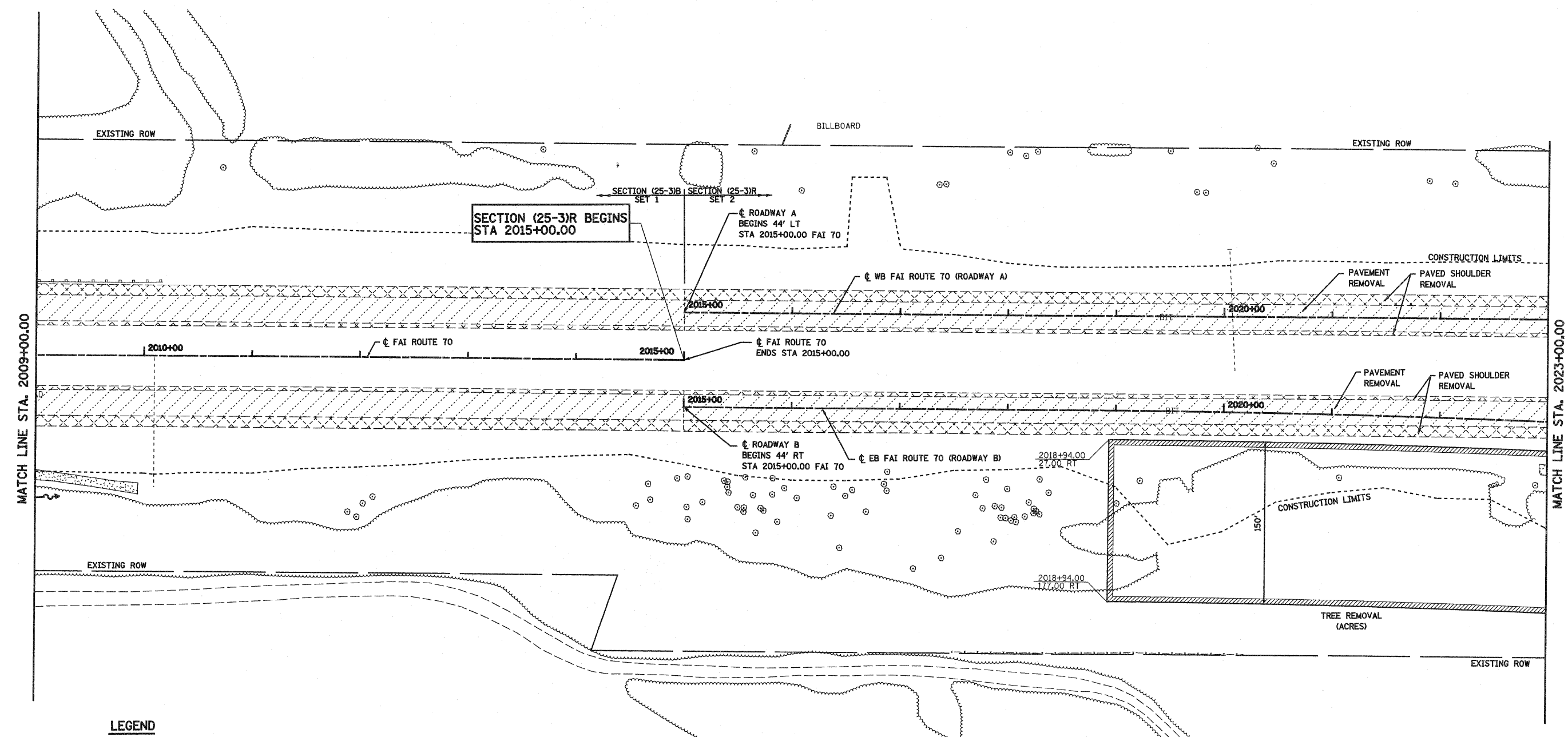
LEGEND

- | | | | |
|--|-------------------------------------|--|--|
| | HOT-MIX ASPHALT
REMOVAL, SPECIAL | | COMBINATION CURB
AND GUTTER REMOVAL |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL |
| | HOT-MIX ASPHALT
SURFACE REMOVAL | | APPROACH SLAB
REMOVAL |
| | TREE REMOVAL (ACRES) | | |

FOR INFORMATION ONLY

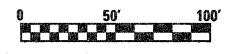


FILE NAME = <small>S:\Projects\483 0007257-70\dgn\5 Trk\Removal.sld</small>	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL	F.A.I RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 427
PLOT SCALE = 100.0000' / IN.		CHECKED - BRM	REVISED -	SCALE: 1"=50'		SHEET NO. 1 OF 10 SHEETS		STA. 2005+92.13 TO STA. 2009+00.00		CONTRACT NO. 74296
PLOT DATE = 2/11/2010		DATE - 3-4-08	REVISED -	<small>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</small>						

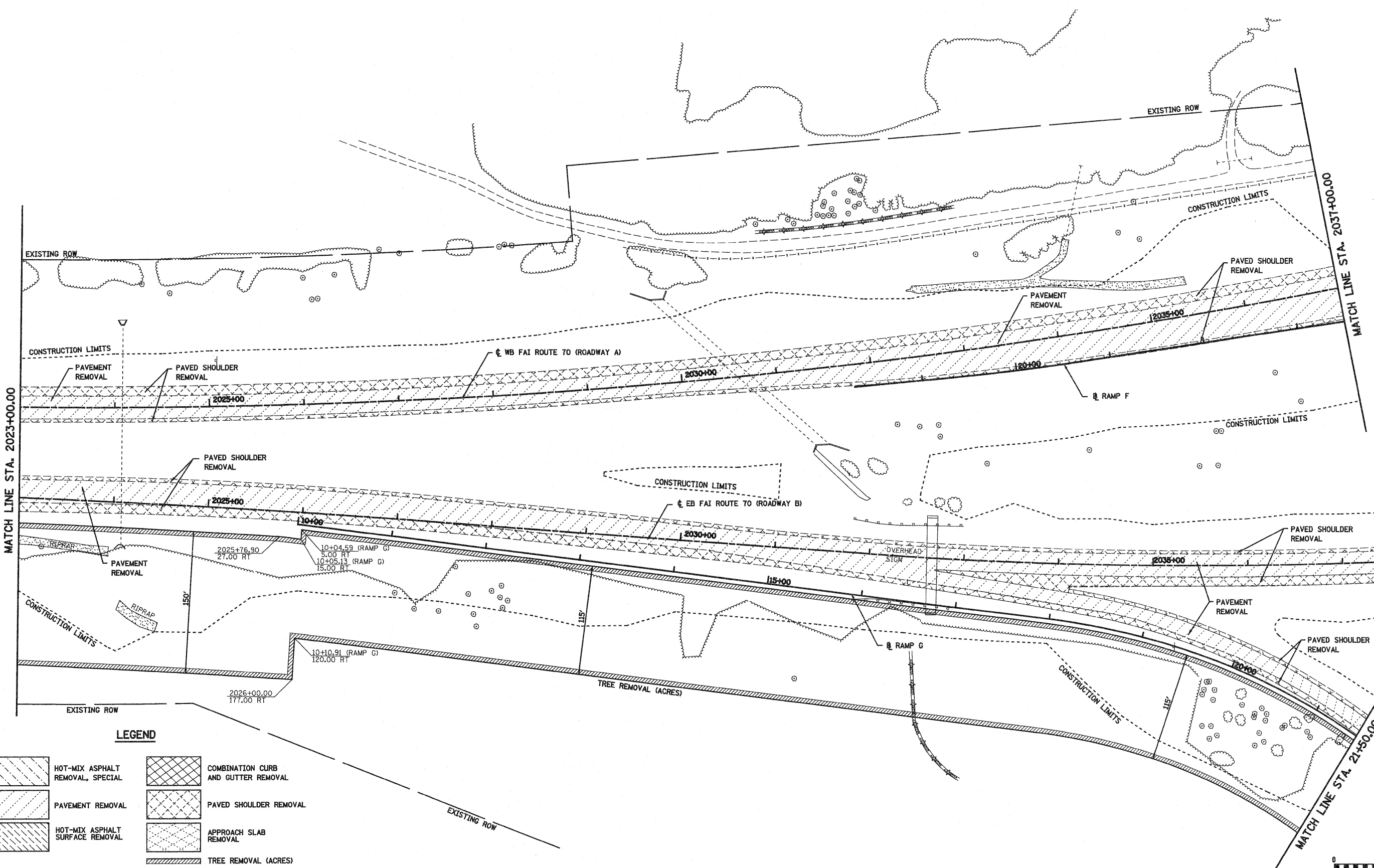


LEGEND

- | | | | |
|--|-------------------------------------|--|--|
| | HOT-MIX ASPHALT
REMOVAL, SPECIAL | | COMBINATION CURB
AND GUTTER REMOVAL |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL |
| | HOT-MIX ASPHALT
SURFACE REMOVAL | | APPROACH SLAB
REMOVAL |
| | TREE REMOVAL (ACRES) | | |



FILE NAME = S:\Projects\183\183-0072-57-70\Map\5_1\183removal.dwg	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL			F.A.I RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 428
	PLOT SCALE = 1/80.0000' / IN.	DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 10 SHEETS	STA. 2009+00.00 TO STA. 2023+00.00	CONTRACT NO. 74296				
	PLOT DATE = 2/11/2010	CHECKED - BRM	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 3-4-08	REVISED -									

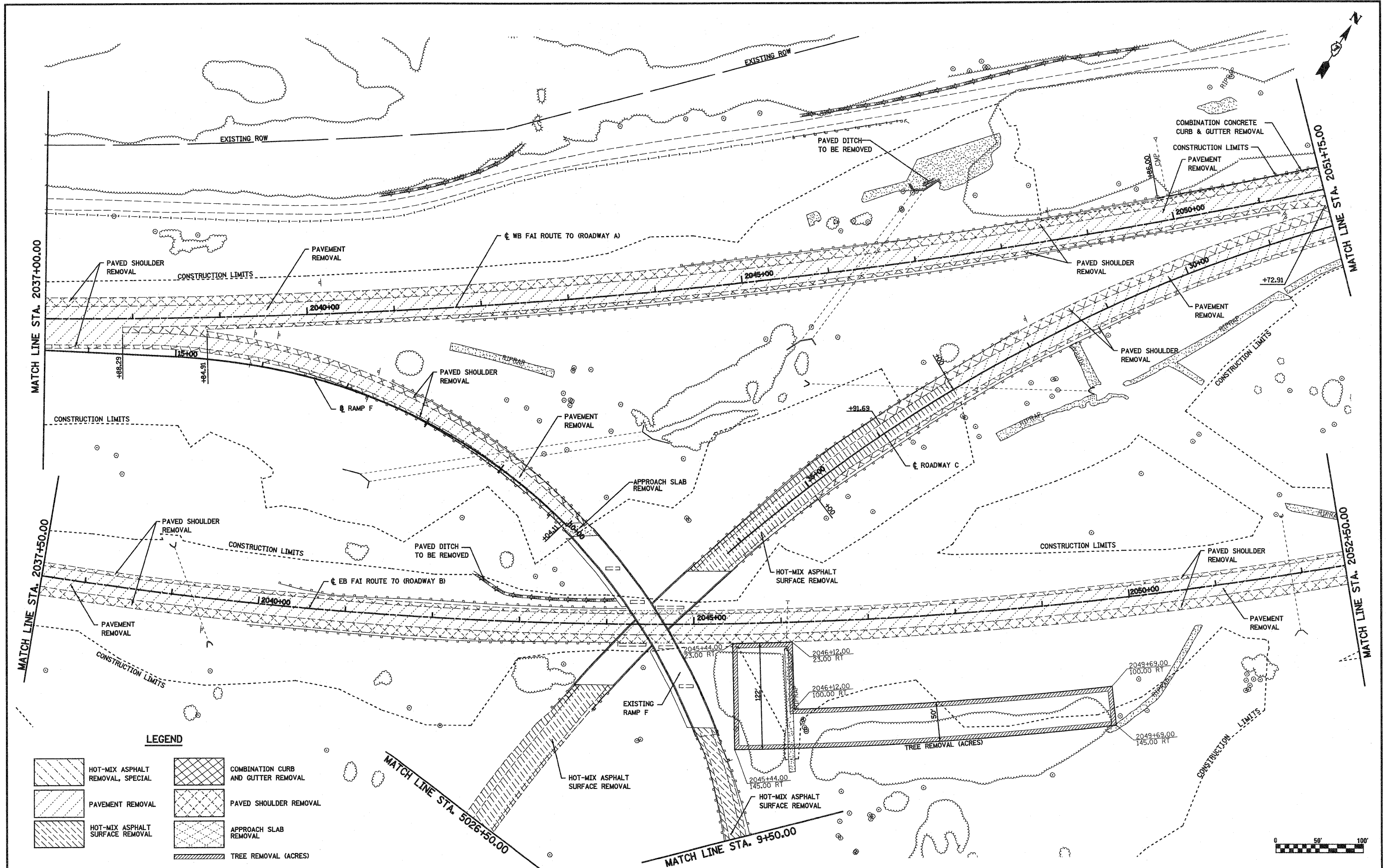


LEGEND

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | HOT-MIX ASPHALT REMOVAL, SPECIAL | | COMBINATION CURB AND GUTTER REMOVAL |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL |
| | HOT-MIX ASPHALT SURFACE REMOVAL | | APPROACH SLAB REMOVAL |
| | TREE REMOVAL (ACRES) | | |



FILE NAME = S:\Projects\103-00072-57-70\p15 Trk\Drawal.stb	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL	F.A.I. RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 429		
PLOT SCALE = 1/8"=100' / IN.		DRAWN - PDB	REVISED -			SCALE: 1"=50'	SHEET NO. 3 OF 10 SHEETS	STA. 2023+00.00 TO STA. 2037+50.00	CONTRACT NO. 74296			
PLOT DATE = 2/11/2010		CHECKED - BRM	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
		DATE - 3-4-08	REVISED -									



LEGEND

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | HOT-MIX ASPHALT REMOVAL, SPECIAL | | COMBINATION CURB AND GUTTER REMOVAL |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL |
| | HOT-MIX ASPHALT SURFACE REMOVAL | | APPROACH SLAB REMOVAL |
| | TREE REMOVAL (ACRES) | | |

FILE NAME =
 S:\Projects\183\8872.57\7\dep\183\183\removal.dwg

USER NAME = paul
 PLOT SCALE = 100.0000' / IN.
 PLOT DATE = 2/11/2010

DESIGNED - JWS
 DRAWN - PDB
 CHECKED - BRM
 DATE - 3-4-08

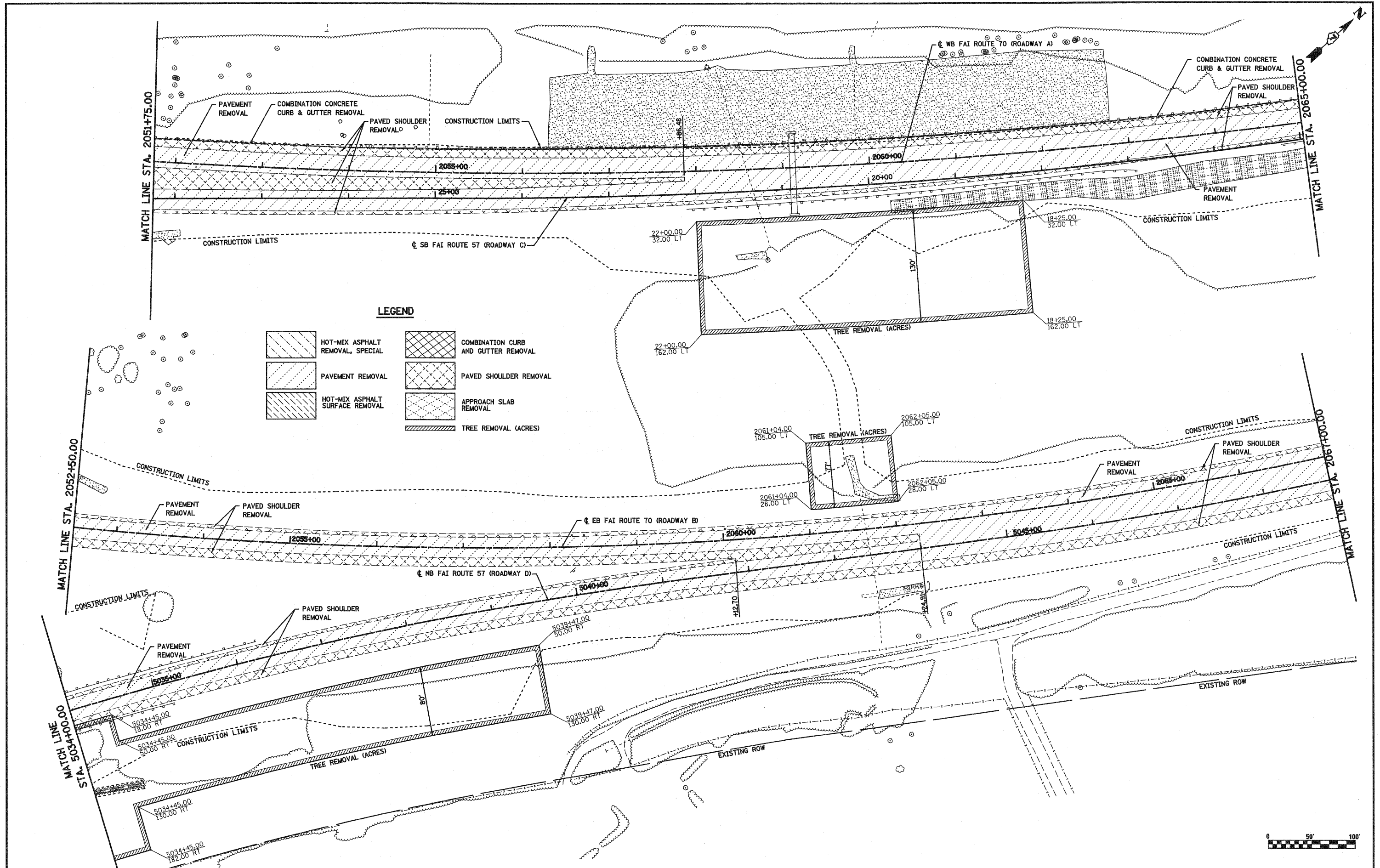
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, SOUTH TRI LEVEL

SCALE: 1"=50' SHEET NO. 4 OF 10 SHEETS STA. 2037+00.00 TO STA. 2052+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)R	EFFINGHAM	1416	430
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74296				

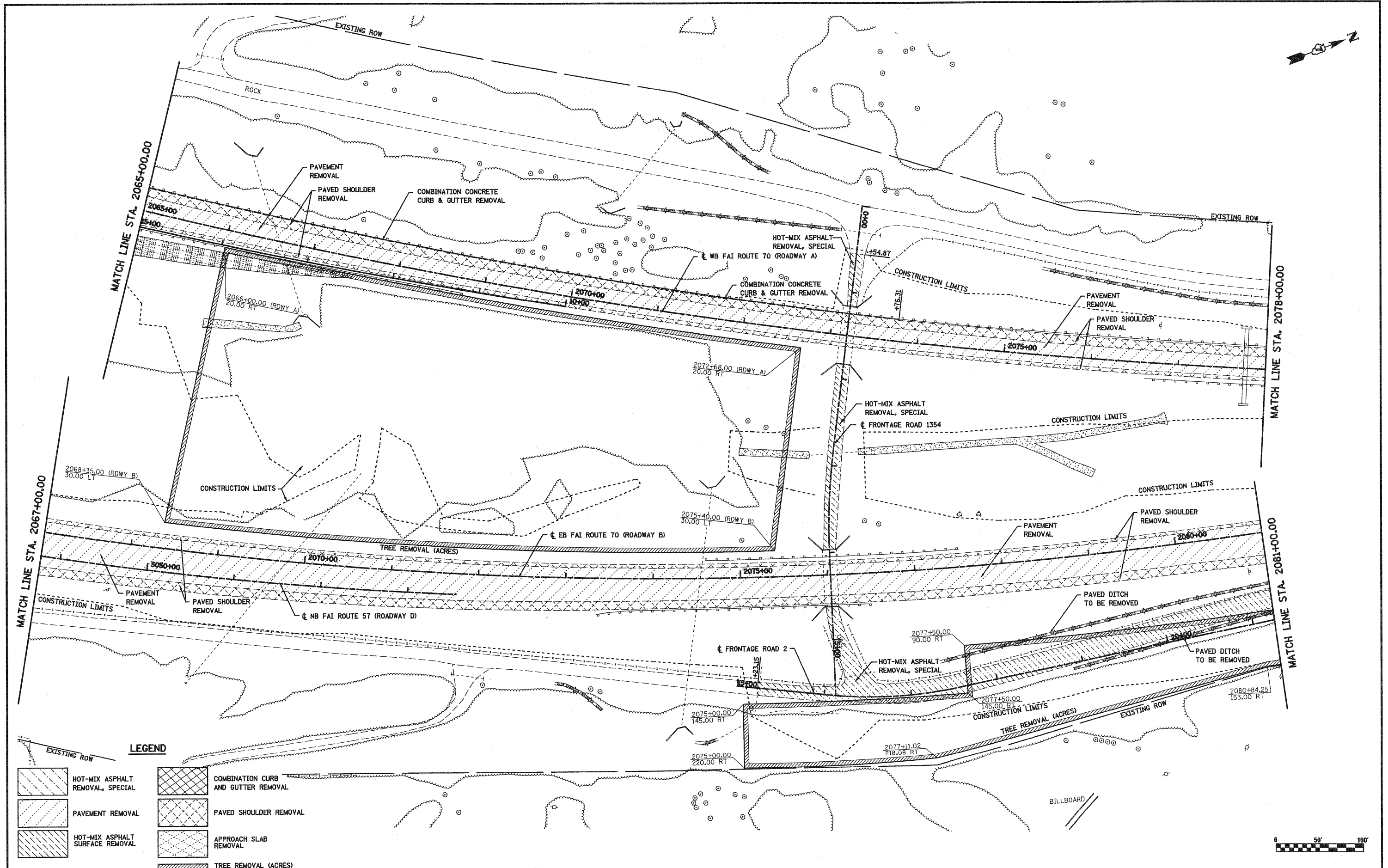


LEGEND

- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | HOT-MIX ASPHALT REMOVAL, SPECIAL | | COMBINATION CURB AND GUTTER REMOVAL |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL |
| | HOT-MIX ASPHALT SURFACE REMOVAL | | APPROACH SLAB REMOVAL |
| | TREE REMOVAL (ACRES) | | |



FILE NAME =	USER NAME = pswl	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SA\Projects\1807\1807257-70\Drawings\Removal.stb		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 5 OF 10 SHEETS	STA. 2052+50.00 TO STA. 2067+00.00	57/70	(25-3)R	EFFINGHAM	1416	431
	PLOT SCALE = 1/80,00000 ' / IN.	CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
	PLOT DATE = 2/11/2010	DATE - 3-4-08	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND



FILE NAME =
 S:\Projects\03-08\257-70\Drawings\1-1\Removal.dwg

USER NAME = paul
 PLOT SCALE = 1/80.0000' / IN.
 PLOT DATE = 2/11/2010

DESIGNED - JWS
 DRAWN - PDB
 CHECKED - BRM
 DATE - 3-4-08

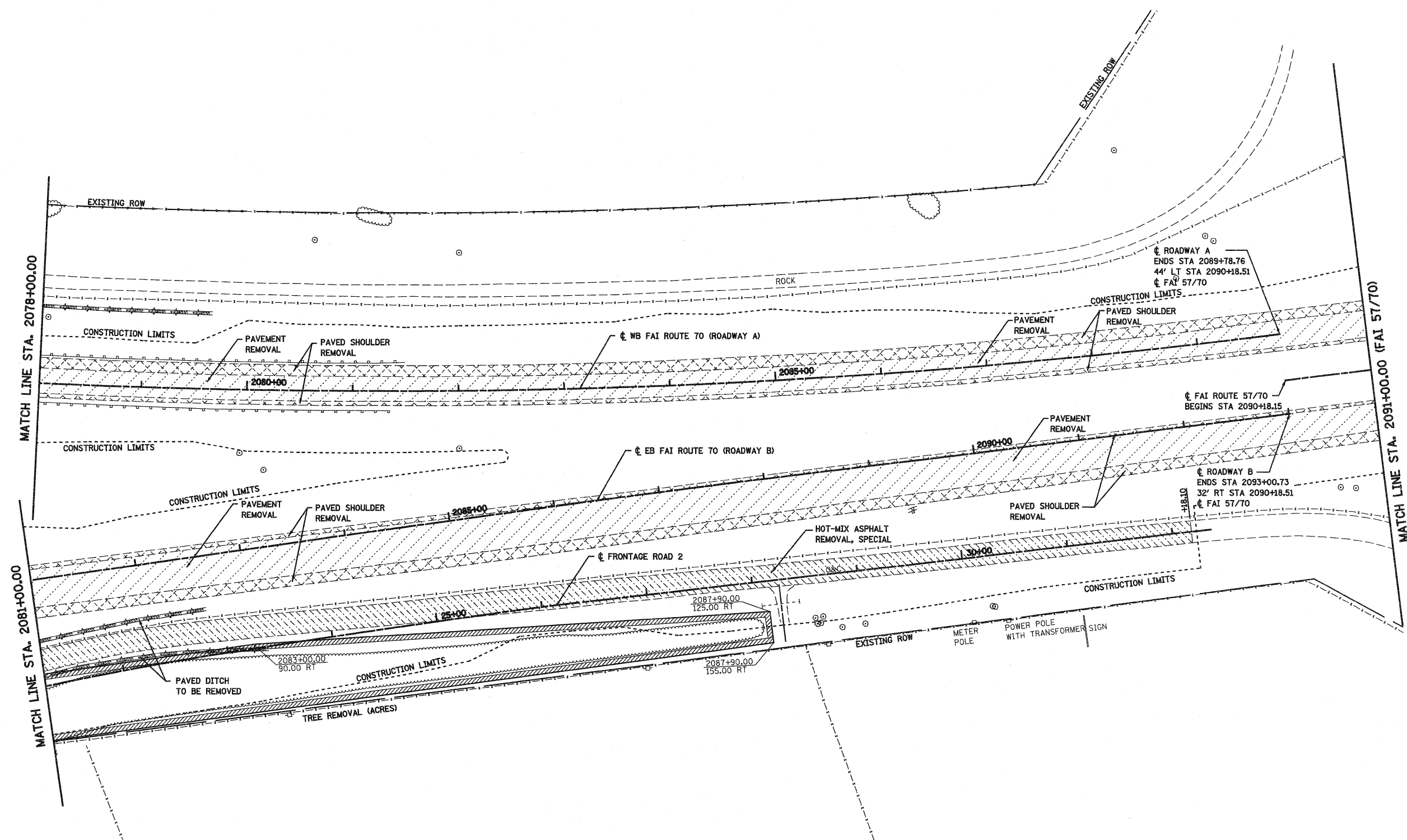
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN, SOUTH TRI LEVEL

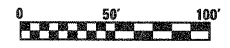
SCALE: 1"=50' SHEET NO. 6 OF 10 SHEETS STA. 2067+00.00 TO STA. 2081+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)R	EFFINGHAM	1416	432
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74296				

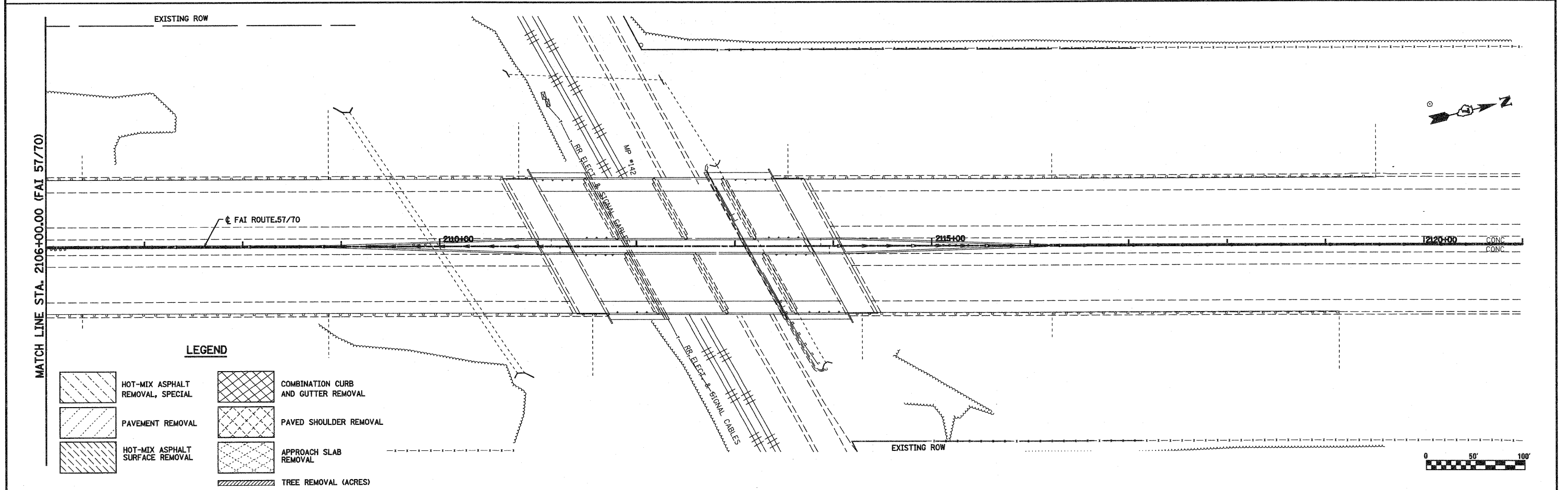
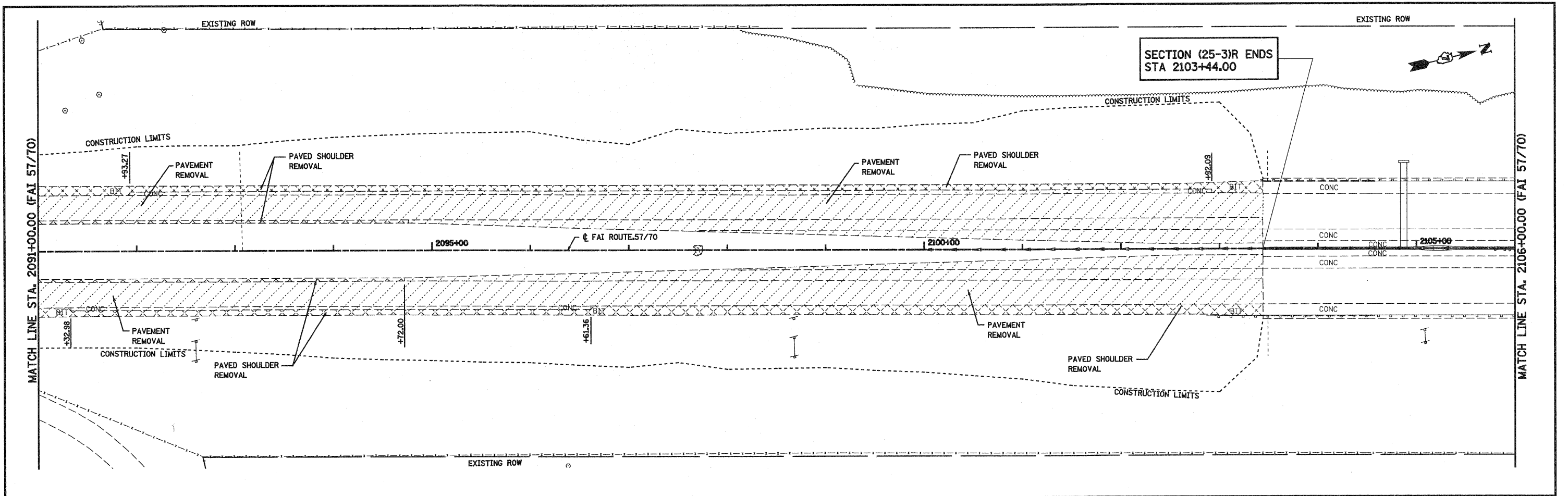


LEGEND

	HOT-MIX ASPHALT REMOVAL, SPECIAL		COMBINATION CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL		APPROACH SLAB REMOVAL
	TREE REMOVAL (ACRES)		



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SVProject\183\2011\25-3R\15 Trk\Vessel.stb	PLOT SCALE = 100.0000' / IN.	DRAWN - PDB	REVISED -			57/70	(25-3R)	EFFINGHAM	1416	433	
PLOT DATE = 2/11/2010	DATE - 3-4-08	CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 3-4-08	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 1"=50'						SHEET NO. 7 OF 10 SHEETS		STA. 2081+00.00 TO STA. 2091+00.00			



LEGEND

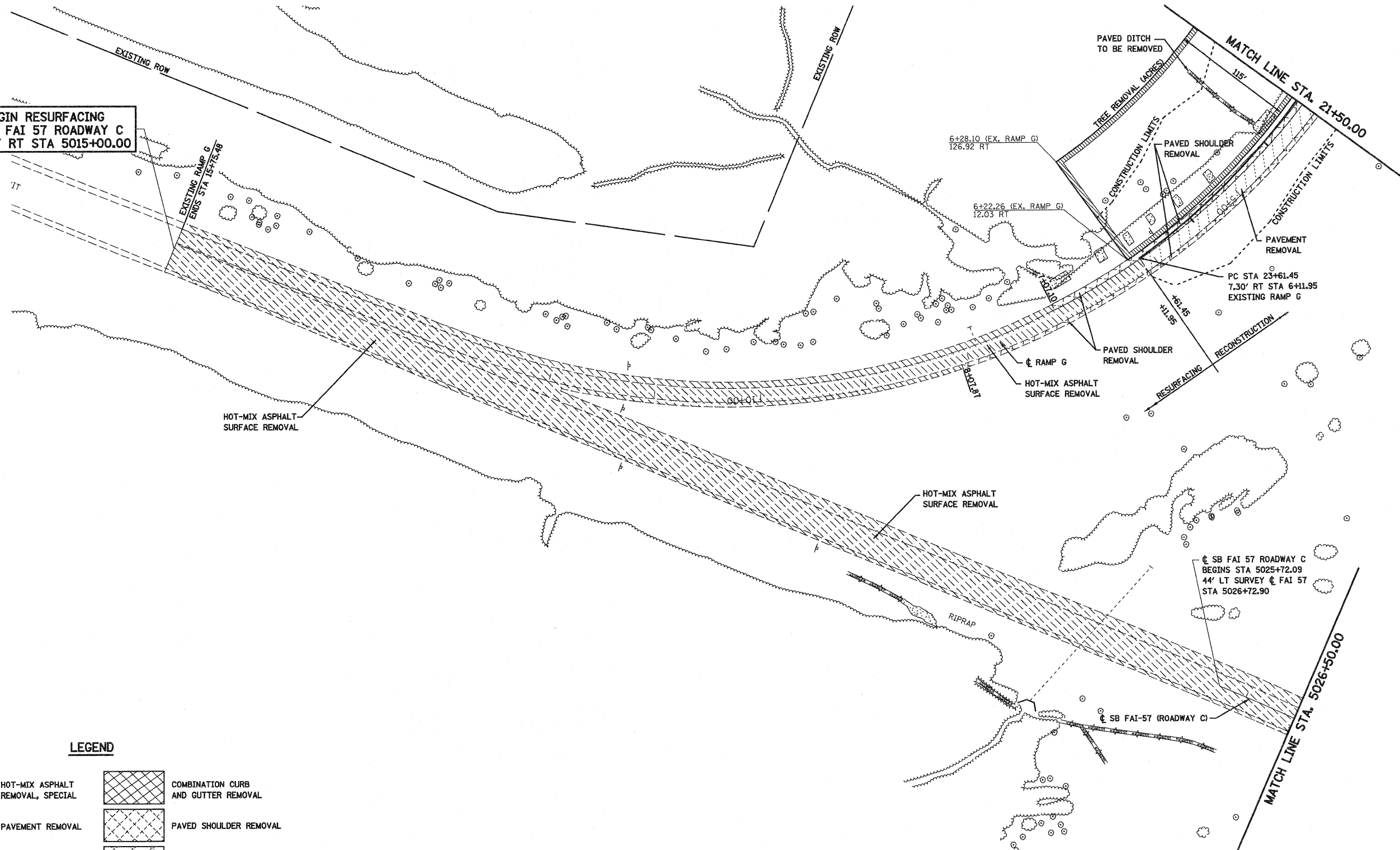
- HOT-MIX ASPHALT REMOVAL, SPECIAL
- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- PAVED SHOULDER REMOVAL
- APPROACH SLAB REMOVAL
- TREE REMOVAL (ACRES)



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
20\projects\103\10325770\10325770.dgn		DRAWN - PDB	REVISED -			57/70	(25-3)R	EFFINGHAM	1416	434	
		CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 3-4-08	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: 1"=50'	SHEET NO. 8 OF 10 SHEETS	STA. 2091+00.00 TO STA. 2115+00.00				



BEGIN RESURFACING
SB FAI 57 ROADWAY C
44' RT STA 5015+00.00

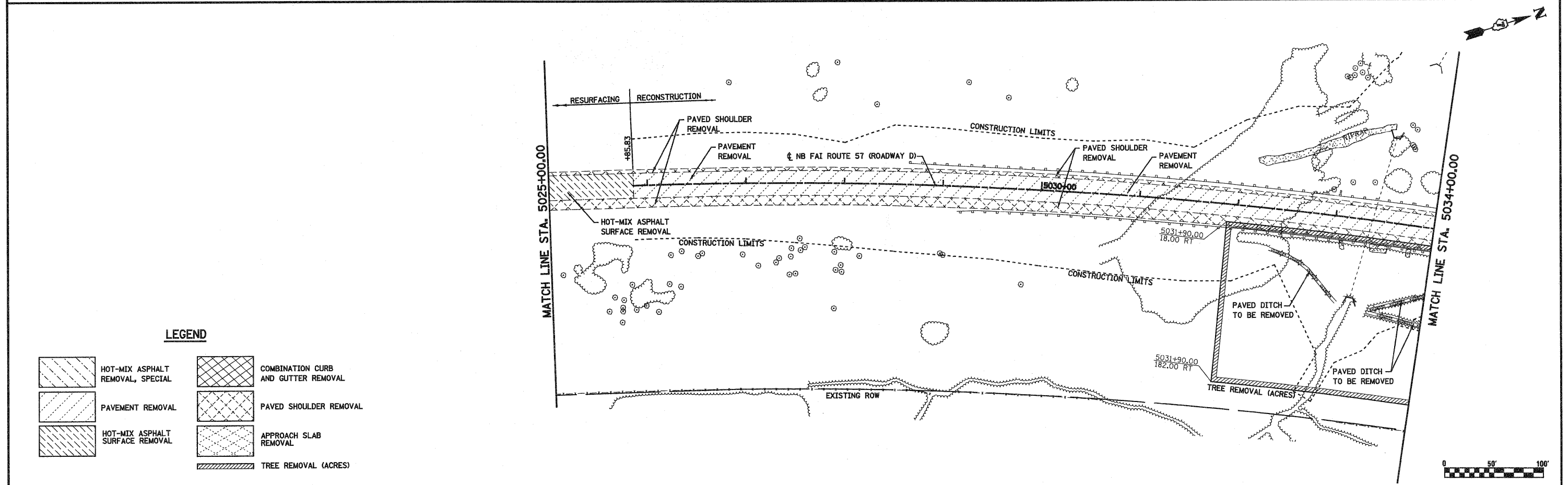
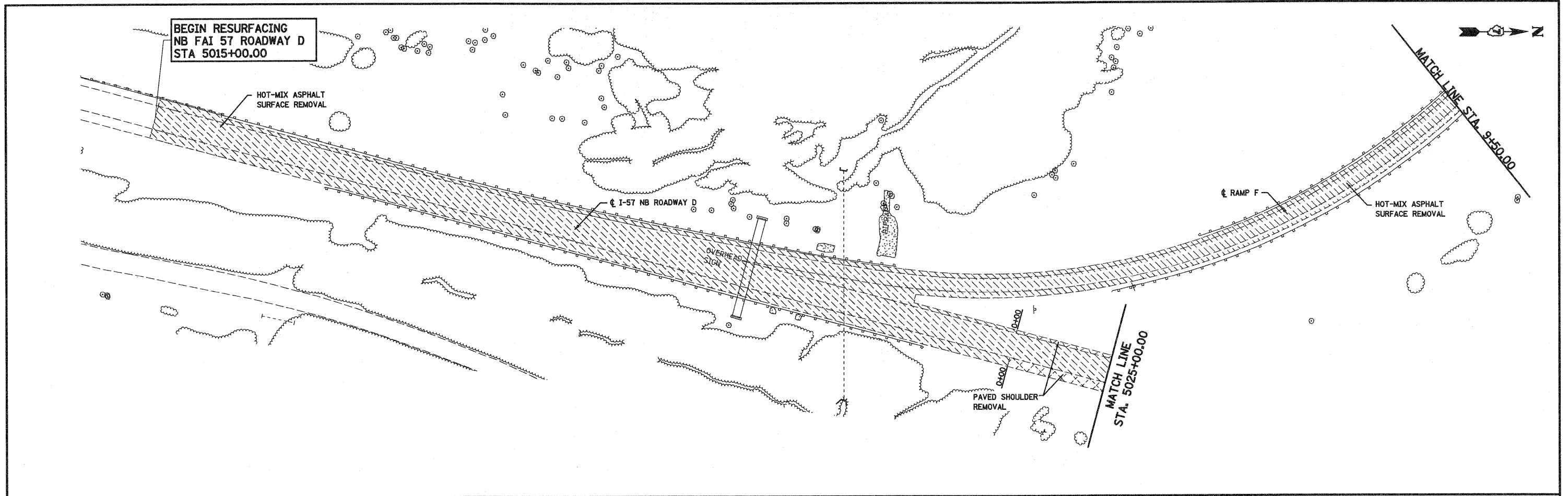


LEGEND

	HOT-MIX ASPHALT REMOVAL, SPECIAL		COMBINATION CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL		APPROACH SLAB REMOVAL
	TREE REMOVAL (ACRES)		



FILE NAME = S:\projects\183\2007\257\70\dtp\5 Trk\General.sld	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL	F.A.I. RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 435		
PLOT SCALE = 100.0000' / IN.	CHECKED - BRM	DATE - 3-4-08	REVISED -			SCALE: 1"=50'	SHEET NO. 9 OF 10 SHEETS	STA. 5015+00.00 TO STA. 5026+50.00	CONTRACT NO. 74296			
PLOT DATE = 2/11/2010	DATE - 3-4-08	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



LEGEND

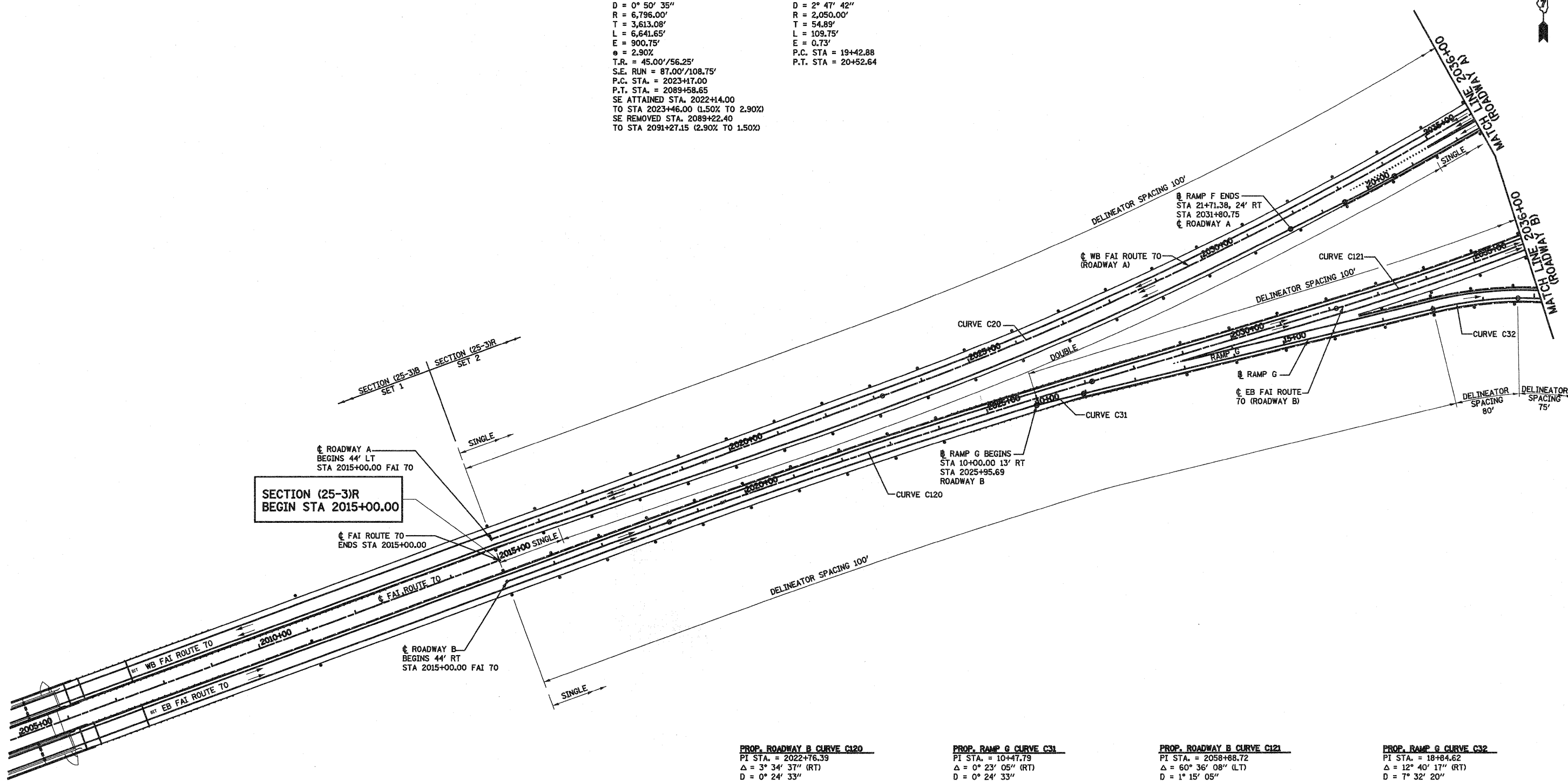
- | | | | |
|--|----------------------------------|--|-------------------------------------|
| | HOT-MIX ASPHALT REMOVAL, SPECIAL | | COMBINATION CURB AND GUTTER REMOVAL |
| | PAVEMENT REMOVAL | | PAVED SHOULDER REMOVAL |
| | HOT-MIX ASPHALT SURFACE REMOVAL | | APPROACH SLAB REMOVAL |
| | TREE REMOVAL (ACRES) | | |

FILE NAME = S:\Projects\MS 07257\7dgs\5 TriLevel\removal.dwg	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, SOUTH TRI LEVEL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PDB	REVISED -					(25-3)R	EFFINGHAM	1416	436	
		CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
		DATE - 3-4-08	REVISED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
				SCALE: 1"=50'			SHEET NO. 10 OF 10 SHEETS	STA. 5015+00.00 TO STA. 5034+00.00				



PROP. ROADWAY A CURVE C20
 PI STA. = 2059+30.08
 $\Delta = 55^\circ 59' 40''$ (LT)
 $D = 0^\circ 50' 35''$
 $R = 6,796.00'$
 $T = 3,613.08'$
 $L = 6,641.65'$
 $E = 900.75'$
 $e = 2.90\%$
 $T.R. = 45.00'/56.25'$
 $S.E. RUN = 87.00'/108.75'$
 P.C. STA. = 2023+17.00
 P.T. STA. = 2089+58.65
 SE ATTAINED STA. 2022+14.00
 TO STA 2023+46.00 (1.50% TO 2.90%)
 SE REMOVED STA. 2089+22.40
 TO STA 2091+27.15 (2.90% TO 1.50%)

PROP. RAMP F CURVE C200
 PI STA. = 19+97.77
 $\Delta = 3^\circ 04' 03''$ (RT)
 $D = 2^\circ 47' 42''$
 $R = 2,050.00'$
 $T = 54.89'$
 $L = 109.75'$
 $E = 0.73'$
 P.C. STA. = 19+42.88
 P.T. STA. = 20+52.64



**SECTION (25-3)R
 BEGIN STA 2015+00.00**

PROP. ROADWAY B CURVE C120
 PI STA. = 2022+76.39
 $\Delta = 3^\circ 34' 37''$ (RT)
 $D = 0^\circ 24' 33''$
 $R = 14,000.00'$
 $T = 437.16'$
 $L = 874.03'$
 $E = 6.82'$
 P.C. STA. = 2018+39.23
 P.T. STA. = 2027+13.26

PROP. RAMP G CURVE C31
 PI STA. = 10+47.79
 $\Delta = 0^\circ 23' 05''$ (RT)
 $D = 0^\circ 24' 33''$
 $R = 14,000.00'$
 $T = 47.02'$
 $L = 94.04'$
 $E = 0.08'$
 P.C. STA. = 10+00.77
 P.T. STA. = 10+94.81

PROP. ROADWAY B CURVE C121
 PI STA. = 2058+88.72
 $\Delta = 60^\circ 36' 08''$ (LT)
 $D = 1^\circ 15' 05''$
 $R = 4,578.30'$
 $T = 2,675.46'$
 $L = 4,842.50'$
 $E = 724.43'$
 $e = 4.00\%$
 $T.R. = 45.00'/56.25'$
 $S.E. RUN = 120.00'/150.00'$
 P.C. STA. = 2032+13.26
 P.T. STA. = 2080+55.76
 SE ATTAINED STA. 2030+88.26
 TO STA 2032+53.26 (1.50% TO 4.00%)
 SE REMOVED STA. 2080+05.76
 TO STA 2082+12.01 (4.00% TO 1.50%)

PROP. RAMP G CURVE C32
 PI STA. = 18+84.62
 $\Delta = 12^\circ 40' 17''$ (RT)
 $D = 7^\circ 32' 20''$
 $R = 760.00'$
 $T = 84.38'$
 $L = 168.08'$
 $E = 4.67'$
 $e = 8.00\%$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 P.C. STA. = 18+00.24
 P.C.C. STA. = 19+68.32

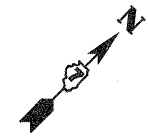
LEGEND

DELINEATOR •

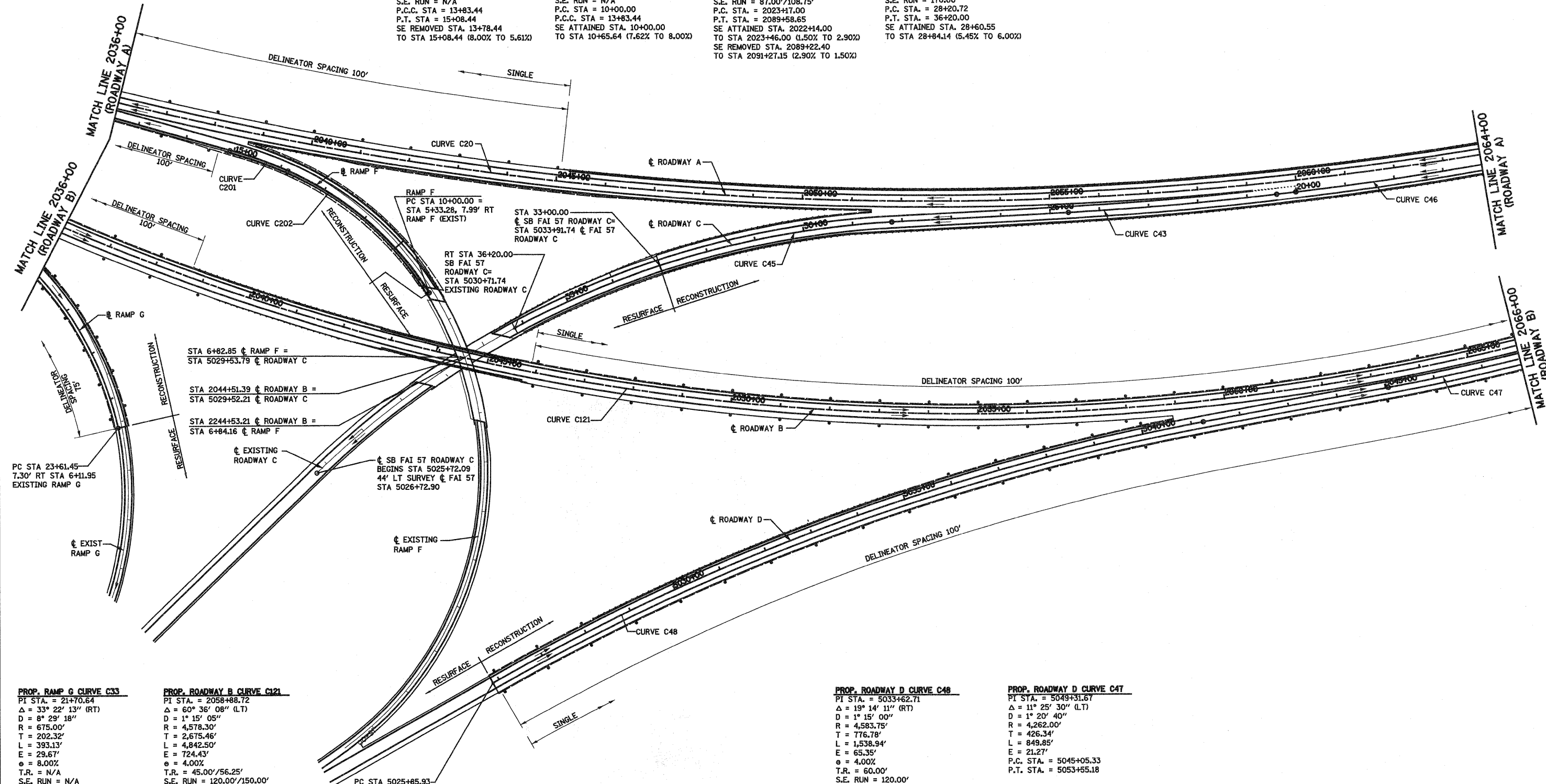
NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DELINEATOR DETAIL SOUTH TRI LEVEL		F.A.I. RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 437	
SVProject\MS3\07257-70\p15 Tr-L\vdelineator detail.dgn	PLOT SCALE = 200.0000' / IN.	DRAWN - PDB	REVISED -		SCALE: 1"=100'	SHEET NO. 1 OF 3 SHEETS	STA. 2005+00.00 TO STA. 2036+00.00	CONTRACT NO. 74296				
	PLOT DATE = 2/11/2010	CHECKED - BRM	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 3-04-08	REVISED -									



PROP. RAMP F CURVE C201 PI STA. = 14+46.05 $\Delta = 8^\circ 25' 33''$ (LT) $D = 6^\circ 44' 26''$ $R = 850.00'$ $T = 62.61'$ $L = 125.00'$ $E = 2.30'$ $e = 8.00\%$ $T.R. = N/A$ $S.E. RUN = N/A$ $P.C.C. STA. = 13+83.44$ $P.T. STA. = 15+08.44$ $SE REMOVED STA. 13+78.44$ $TO STA 15+08.44 (8.00\% TO 5.61\%)$	PROP. RAMP F CURVE C202 PI STA. = 11+97.53 $\Delta = 33^\circ 55' 47''$ (LT) $D = 8^\circ 50' 56''$ $R = 647.50'$ $T = 197.53'$ $L = 383.44'$ $E = 29.46'$ $e = 8.00\%$ $T.R. = N/A$ $S.E. RUN = N/A$ $P.C. STA. = 10+00.00$ $P.C.C. STA. = 13+83.44$ $SE ATTAINED STA. 10+00.00$ $TO STA 10+65.64 (7.62\% TO 8.00\%)$	PROP. ROADWAY A CURVE C20 PI STA. = 2059+30.08 $\Delta = 55^\circ 59' 40''$ (LT) $D = 0^\circ 50' 35''$ $R = 6,796.00'$ $T = 3,613.08'$ $L = 6,641.65'$ $E = 900.75'$ $e = 2.90\%$ $T.R. = 45.00'/56.25'$ $S.E. RUN = 87.00'/108.75'$ $P.C. STA. = 2023+17.00$ $P.T. STA. = 2089+58.65$ $SE ATTAINED STA. 2022+14.00$ $TO STA 2023+46.00 (1.50\% TO 2.90\%)$ $SE REMOVED STA. 2089+22.40$ $TO STA 2091+27.15 (2.90\% TO 1.50\%)$	PROP. ROADWAY C CURVE C45 PI STA. = 32+27.00 $\Delta = 25^\circ 19' 52''$ (LT) $D = 3^\circ 10' 09''$ $R = 1,807.88'$ $T = 406.28'$ $L = 799.28'$ $E = 45.09'$ $e = 6.00\%$ $T.R. = 42.50'$ $S.E. RUN = 170.00'$ $P.C. STA. = 28+20.72$ $P.T. STA. = 36+20.00$ $SE ATTAINED STA. 28+60.55$ $TO STA 28+84.14 (5.45\% TO 6.00\%)$	PROP. ROADWAY C CURVE C43 PI STA. = 22+51.31 $\Delta = 3^\circ 38' 37''$ (RT) $D = 0^\circ 51' 41''$ $R = 6,651.34'$ $T = 211.56'$ $L = 422.98'$ $E = 3.36'$ $e = 6.00\%$ $P.C. STA. = 20+39.74$ $P.T. STA. = 24+62.73$	PROP. ROADWAY C CURVE C46 PI STA. = 15+17.42 $\Delta = 8^\circ 41' 49''$ (RT) $D = 0^\circ 53' 51''$ $R = 6,384.82'$ $T = 485.50'$ $L = 969.14'$ $E = 18.43'$ $e = 6.00\%$ $P.C. STA. = 10+31.92$ $P.T. STA. = 20+01.06$
---	---	---	--	--	---



PROP. RAMP G CURVE C33
 PI STA. = 21+70.64
 $\Delta = 33^\circ 22' 13''$ (RT)
 $D = 8^\circ 29' 18''$
 $R = 675.00'$
 $T = 202.32'$
 $L = 393.13'$
 $E = 29.67'$
 $e = 8.00\%$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C.C. STA. = 19+68.32$
 $P.T. STA. = 23+61.45$

PROP. ROADWAY B CURVE C121
 PI STA. = 2058+88.72
 $\Delta = 60^\circ 36' 08''$ (LT)
 $D = 1^\circ 15' 05''$
 $R = 4,578.30'$
 $T = 2,675.46'$
 $L = 4,842.50'$
 $E = 724.43'$
 $e = 4.00\%$
 $T.R. = 45.00'/56.25'$
 $S.E. RUN = 120.00'/150.00'$
 $P.C. STA. = 2032+13.26$
 $P.T. STA. = 2080+55.76$
 $SE ATTAINED STA. 2030+88.26$
 $TO STA 2032+53.26 (1.50\% TO 4.00\%)$
 $SE REMOVED STA. 2080+05.76$
 $TO STA 2082+12.01 (4.00\% TO 1.50\%)$

PC STA 5025+85.93
 NB FAI 57
 ROADWAY D =
 PC STA 5025+85.93
 EXISTING ϕ ROADWAY D

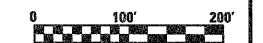
PROP. ROADWAY D CURVE C46
 PI STA. = 5033+62.71
 $\Delta = 19^\circ 14' 11''$ (RT)
 $D = 1^\circ 15' 00''$
 $R = 4,583.75'$
 $T = 776.78'$
 $L = 1,538.94'$
 $E = 65.35'$
 $e = 4.00\%$
 $T.R. = 60.00'$
 $S.E. RUN = 120.00'$
 $P.C. STA. = 5025+85.93$
 $P.T. STA. = 5041+24.87$
 $SE ATTAINED STA. 5024+45.93$
 $TO STA 5026+25.93 (2.00\% TO 4.00\%)$
 $SE REMOVED STA. 5039+94.87$
 $TO STA 5041+24.87 (4.00\% TO 2.68\%)$

PROP. ROADWAY D CURVE C47
 PI STA. = 5049+31.67
 $\Delta = 11^\circ 25' 30''$ (LT)
 $D = 1^\circ 20' 40''$
 $R = 4,262.00'$
 $T = 426.34'$
 $L = 849.85'$
 $E = 21.27'$
 $P.C. STA. = 5045+05.33$
 $P.T. STA. = 5053+55.18$

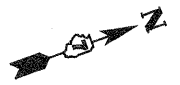
LEGEND

DELINEATOR \bullet

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DELINEATOR DETAIL SOUTH TRI LEVEL			F.A.I. RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 438
PLOT SCALE = 200.0000' / IN.		DRAWN - PDB	REVISED -		SCALE: 1"=100'	SHEET NO. 2 OF 3 SHEETS	STA. 2036+00.00 TO STA. 2066+00.00	CONTRACT NO. 74296				
PLOT DATE = 2/11/2010		CHECKED - BRM	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 3-04-08	REVISED -									



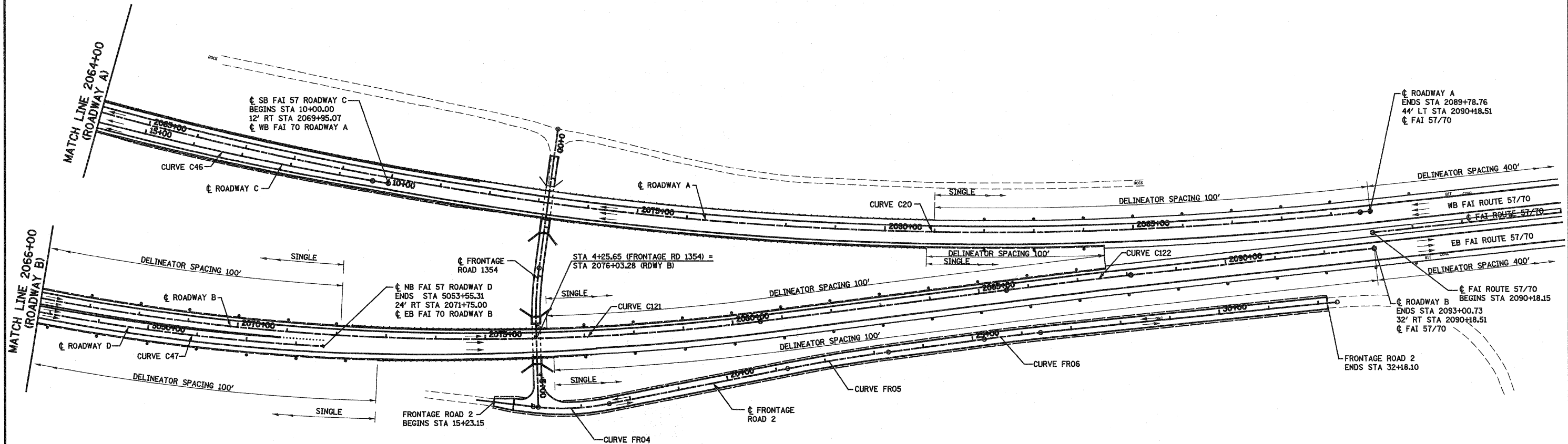
PROP. ROADWAY C CURVE C46
 PI STA. = 15+17.42
 $\Delta = 8^\circ 41' 49''$ (RT)
 $D = 0^\circ 53' 51''$
 $R = 6,384.82'$
 $T = 485.50'$
 $L = 969.14'$
 $E = 18.43'$
 P.C. STA. = 10+31.92
 P.T. STA. = 20+01.06

PROP. ROADWAY A CURVE C20
 PI STA. = 2059+30.08
 $\Delta = 55^\circ 59' 40''$ (LT)
 $D = 0^\circ 50' 35''$
 $R = 6,796.00'$
 $T = 3,613.08'$
 $L = 6,641.65'$
 $E = 900.75'$
 $e = 2.90\%$
 $T.R. = 45.00'/56.25'$
 $S.E. RUN = 87.00'/108.75'$
 P.C. STA. = 2023+17.00
 P.T. STA. = 2089+58.65
 SE ATTAINED STA. 2022+14.00
 TO STA 2023+46.00 (1.50% TO 2.90%)
 SE REMOVED STA. 2089+22.40
 TO STA 2091+27.15 (2.90% TO 1.50%)

PROP. ROADWAY D CURVE C47
 PI STA. = 5049+31.67
 $\Delta = 11^\circ 25' 30''$ (LT)
 $D = 1^\circ 20' 40''$
 $R = 4,262.00'$
 $T = 426.34'$
 $L = 849.85'$
 $E = 21.27'$
 P.C. STA. = 5045+05.33
 P.T. STA. = 5053+55.18

PROP. ROADWAY B CURVE C121
 PI STA. = 2058+88.72
 $\Delta = 60^\circ 36' 08''$ (LT)
 $D = 1^\circ 15' 05''$
 $R = 4,578.30'$
 $T = 2,675.46'$
 $L = 4,842.50'$
 $E = 724.43'$
 $e = 4.00\%$
 $T.R. = 45.00'/56.25'$
 $S.E. RUN = 120.00'/150.00'$
 P.C. STA. = 2032+13.26
 P.T. STA. = 2080+55.76
 SE ATTAINED STA. 2030+88.26
 TO STA 2032+53.26 (1.50% TO 4.00%)
 SE REMOVED STA. 2080+05.76
 TO STA 2082+12.01 (4.00% TO 1.50%)

PROP. ROADWAY B CURVE C122
 PI STA. = 2086+81.69
 $\Delta = 1^\circ 01' 51''$ (RT)
 $D = 0^\circ 24' 33''$
 $R = 14,000.00'$
 $T = 125.93'$
 $L = 251.85'$
 $E = 0.57'$
 P.C. STA. = 2085+55.76
 P.T. STA. = 2088+07.61



LEGEND

DELINEATOR

PROP. FRONTAGE ROAD 1 CURVE FR01
 PI STA. = 3+40.85
 $\Delta = 9^\circ 14' 24''$ (LT)
 $D = 8^\circ 00' 17''$
 $R = 715.78'$
 $T = 57.84'$
 $L = 115.43'$
 $E = 2.33'$
 P.C. STA. = 2+83.01
 P.T. STA. = 3+98.44

PROP. FRONTAGE ROAD 2 CURVE FR04
 PI STA. = 16+80.58
 $\Delta = 17^\circ 37' 24''$ (LT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 77.51'$
 $L = 153.79'$
 $E = 5.97'$
 P.C. STA. = 16+03.07
 P.T. STA. = 17+56.86

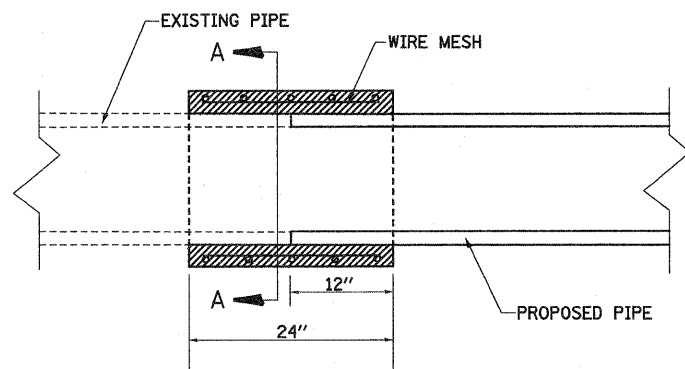
PROP. FRONTAGE ROAD 2 CURVE FR05
 PI STA. = 22+26.02
 $\Delta = 3^\circ 27' 51''$ (RT)
 $D = 1^\circ 41' 07''$
 $R = 3,400.00'$
 $T = 102.82'$
 $L = 205.57'$
 $E = 1.55'$
 P.C. STA. = 21+23.21
 P.T. STA. = 23+28.78

PROP. FRONTAGE ROAD 2 CURVE FR06
 PI STA. = 25+80.81
 $\Delta = 1^\circ 55' 19''$ (RT)
 $D = 1^\circ 41' 07''$
 $R = 3,400.00'$
 $T = 57.03'$
 $L = 114.04'$
 $E = 0.48'$
 P.C. STA. = 25+23.78
 P.T. STA. = 26+37.83

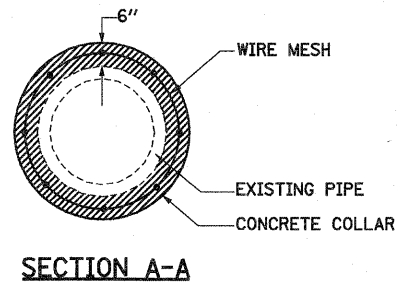
NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.



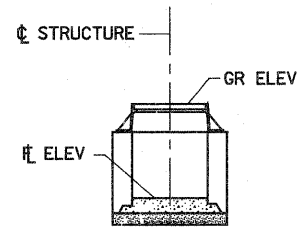
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DELINEATOR DETAIL SOUTH TRI LEVEL			F.A.I. RTE. 57/70	SECTION (25-3R)	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 439
SVProject\MS 88872.57-70.dwg\15 Delineator detail.dwg	PLOT SCALE = 200.0000' / IN.	DRAWN - PDB	REVISED -		SCALE: 1"=100'	SHEET NO. 3 OF 3 SHEETS	STA. 2066+00.00 TO STA. 2094+00.00	CONTRACT NO. 74296				
	PLOT DATE = 2/11/2018	CHECKED - BRM	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 3-04-08	REVISED -									



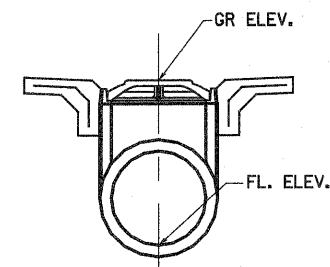
CONCRETE COLLAR DETAIL OPTION
NOT TO SCALE



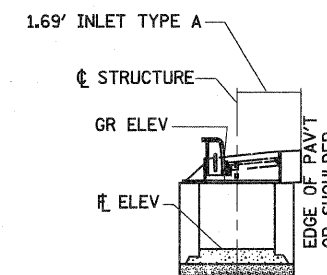
NOTE:
CLASS SI CONCRETE SHALL BE USED.



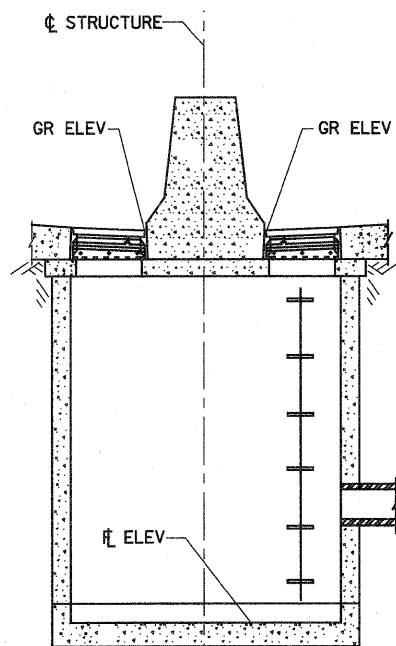
INLET TYPE A W/ TYPE 1 F&L



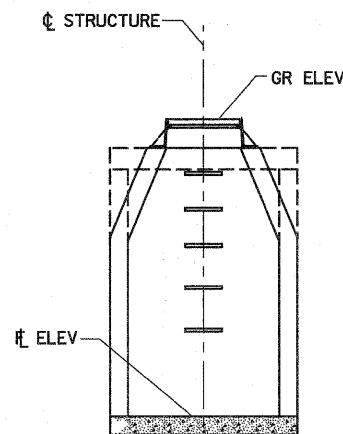
**24" MEDIAN INLET
WITH REINFORCED CONCRETE
PIPE TEE, 24" WITH 24" RISER**



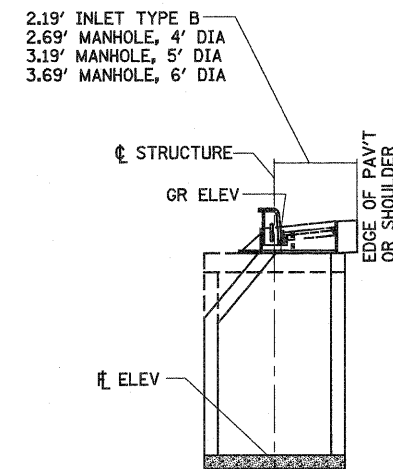
INLET TYPE A W/ TYPE 3 F&G



**DRAINAGE STRUCTURE TYPE 5
W/ TWO TYPE 22 F&G**



MANHOLES W/ TYPE 1 FRAME AND LID

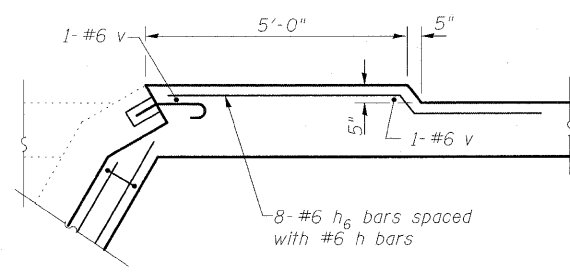
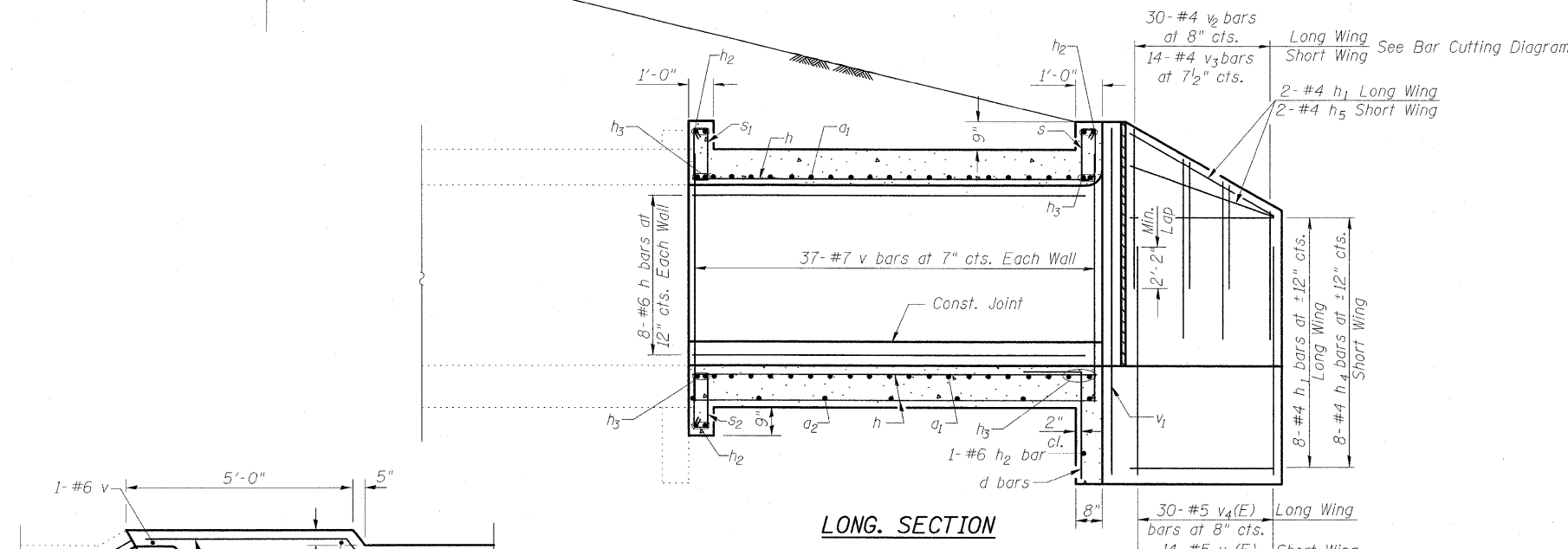


**INLET TYPE B AND MANHOLES
W/ TYPE 3 F&G**

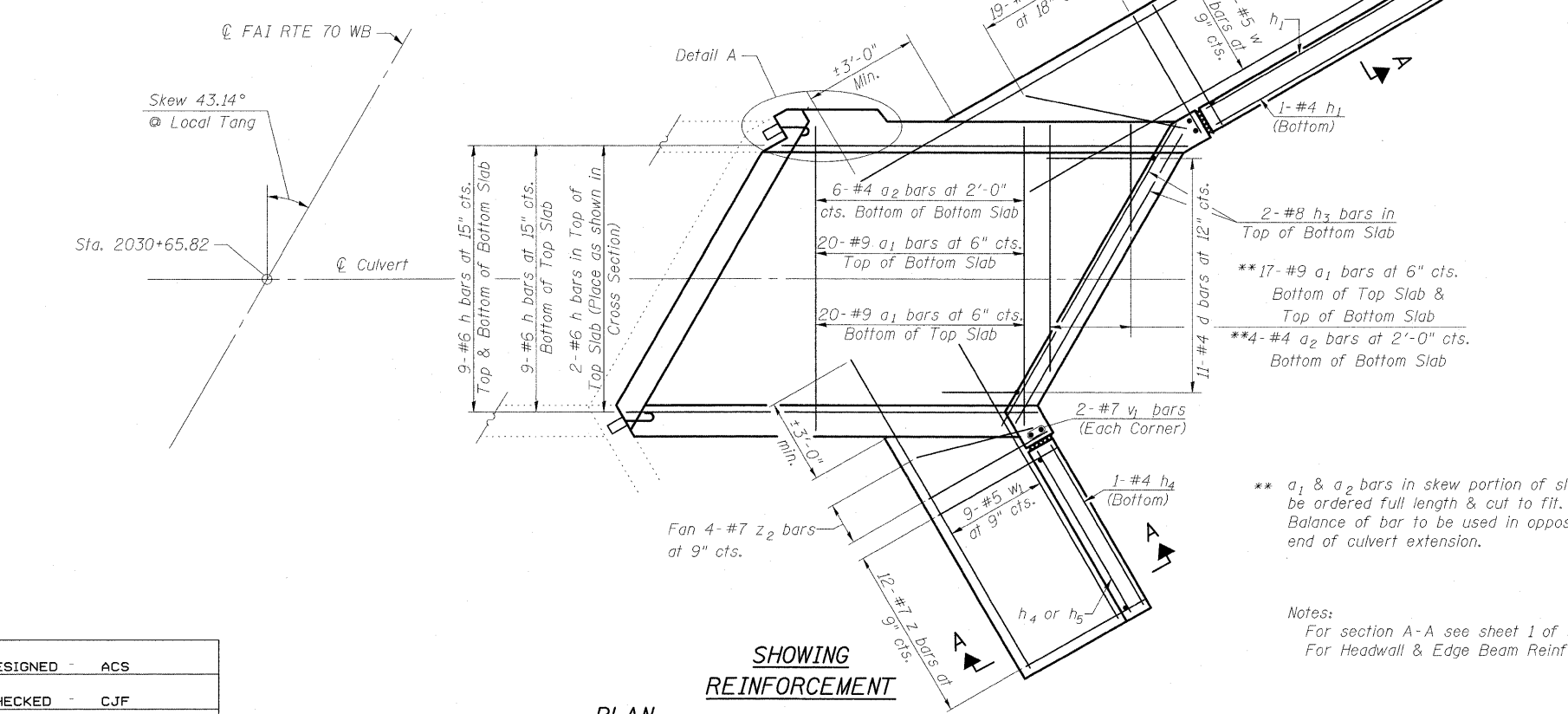
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DRAINAGE DETAILS, FAI ROUTE 57/70	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\403-00072-57-70\Drawings\5 Misc Drainage	Details.dgn	DRAWN - PDB	REVISED -			57/70	(25-3)R	EFFINGHAM	1416	441	
PLOT SCALE = 5.0000' / IN.	CHECKED - BRM	REVISIONS	REVISED -			CONTRACT NO. 74296					
PLOT DATE = 2/11/2010	DATE - 4-16-09	REVISED -	REVISED -			SCALE: 1"=5' SHEET NO. 2 OF 2 SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PG Elev. 535.48
FAI RTE TO WB

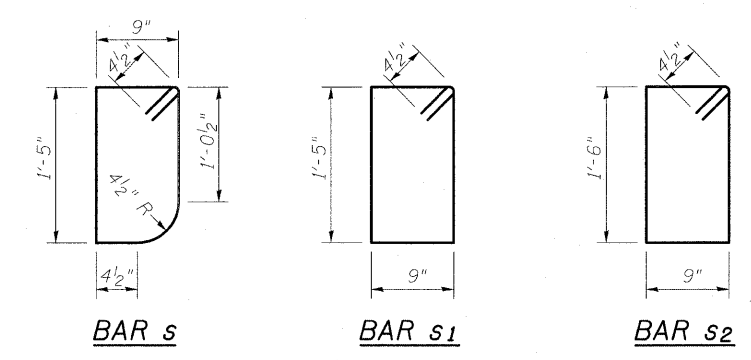


DETAIL A



PLAN

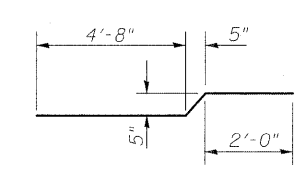
SHOWING REINFORCEMENT



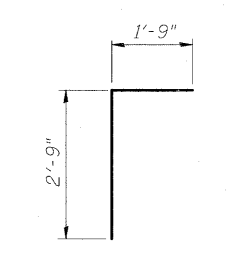
BAR s

BAR s1

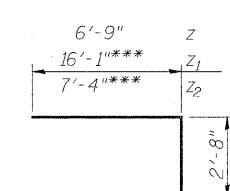
BAR s2



BAR h6

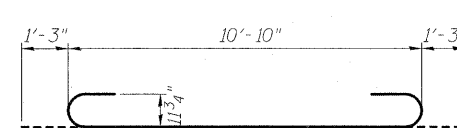


BAR d



BAR z & z1

*** Longest length required - 16'-1" for z1
7'-4" for z2
Field cut remaining bars to fit



BAR a1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	74	#9	13'-4"	
a2	10	#4	10'-10"	
d	11	#4	4'-6"	
h	45	#6	21'-0"	
h1	11	#4	19'-6"	
h2	3	#6	15'-0"	
h3	10	#8	15'-0"	
h4	9	#4	8'-0"	
h5	2	#4	8'-9"	
h6	8	#6	7'-3"	
s	15	#4	4'-11"	
s1	15	#4	5'-1"	
s2	15	#4	5'-3"	
v	76	#7	8'-8"	
v1	4	#7	11'-4"	
v2	15	#4	12'-3"	
v3	7	#4	12'-3"	
v4(E)	44	#5	6'-0"	
w	9	#5	38'-4"	
w1	9	#5	14'-4"	
z	40	#7	9'-5"	
z1	19	#7	18'-9"	
z2	4	#7	10'-0"	

Concrete Box Culverts	Cu. Yd.	41.3
Reinforcement Bars, Epoxy Coated	Pound	280
Reinforcement Bars	Pound	9490
3/4" Expansion Bolts	Each	26
Concrete Removal	Cu. Yd.	9.5
Removal & Disposal of Unsuitable Material	Cu. Yd.	39
Rockfill-Replacement	Ton	82

** a1 & a2 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert extension.

Notes:
For section A-A see sheet 1 of 3.
For Headwall & Edge Beam Reinforcement see sheet 1 of 1.

BOX CULVERT DETAILS
RT STA 2030+65.82
FAI ROUTE 70 WB (RDWY A)

DESIGNED	ACS
CHECKED	CJF
DRAWN	RCB
CHECKED	CJF

Revised Sheet 5/21/10 CJF

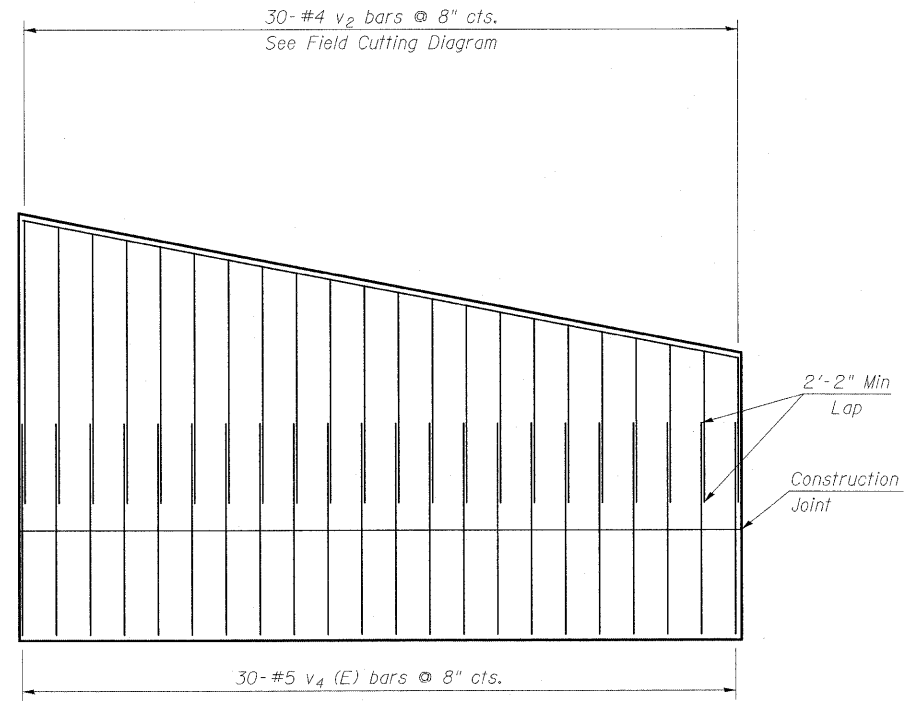
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5655
Local (618) 398-4665
Fax 618-398-4666

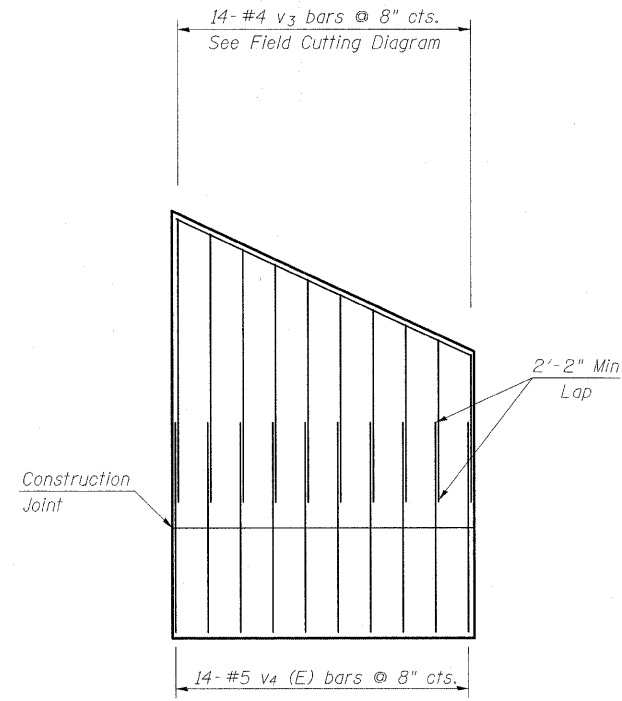
SHEET NO. 2	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 3 SHEETS	57/70	(25-3)R	EFFINGHAM	1416	443
			CONTRACT NO. 74296		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

1:05:47 PM 5/21/2010 ...\\server1\2030+65.82_sheets\sdm

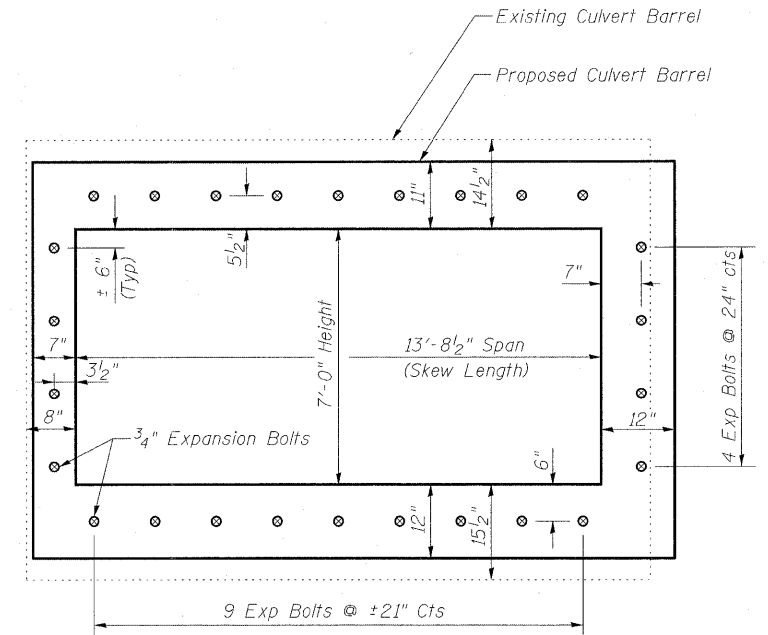
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**LONG WING
SHOWING REINFORCEMENT**

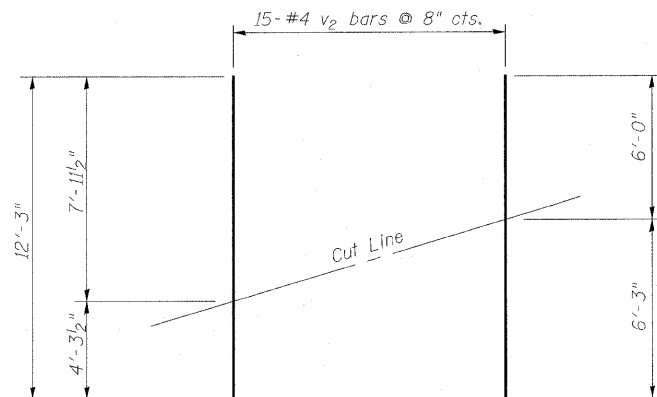


**SHORT WING
SHOWING REINFORCEMENT**

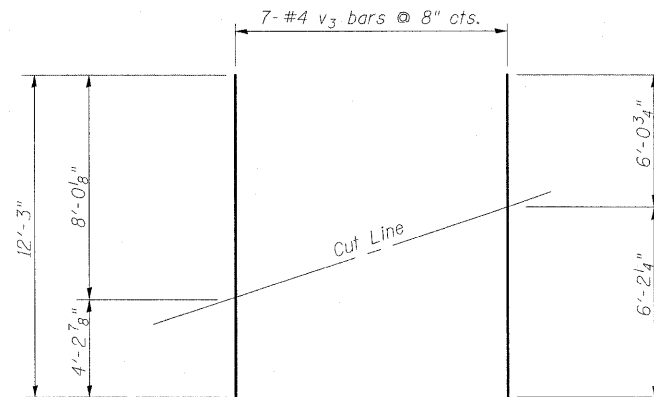


Notes
Expansion Bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete.

EXPANSION BOLT LAYOUT



FIELD CUTTING DIAGRAM
(v2 bars)



FIELD CUTTING DIAGRAM
(v3 bars)

DESIGNED -	ACS
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF

Revised Sheet 5/21/10 CJF

Order v2 & v3 bars full length. Cut as shown. Use remainder of bar in opposite end of Wing Wall.



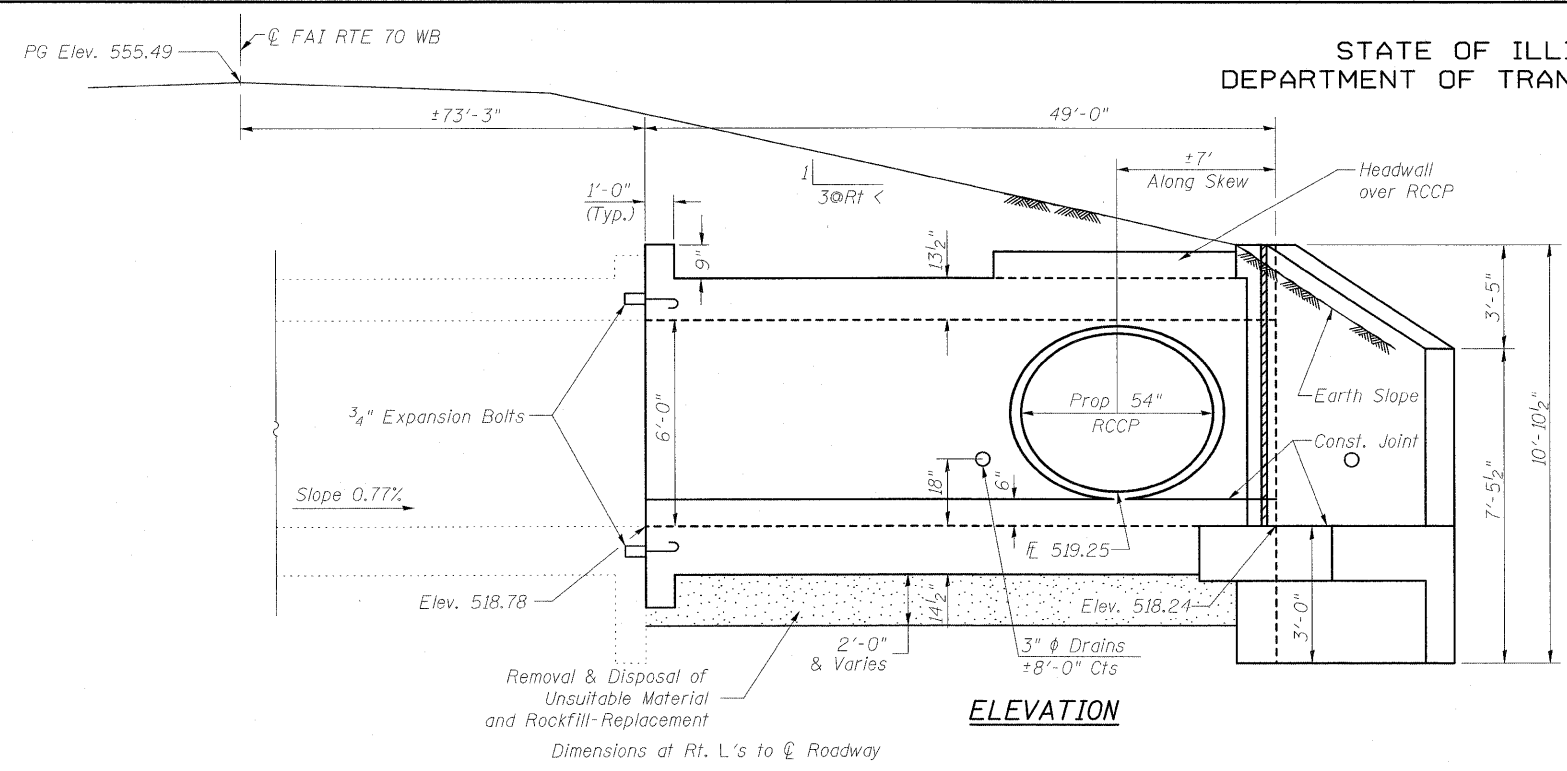
**BERNARD
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Merrville, IL 62962-6635
Local (618) 388-4665
Fax 618-288-4666

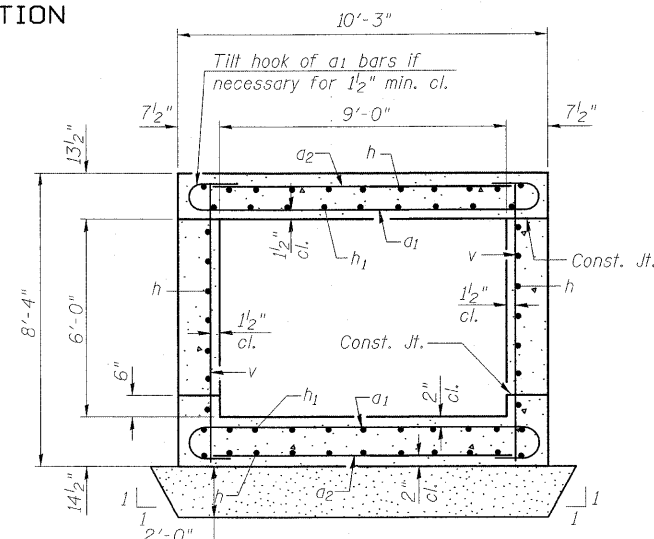
BOX CULVERT DETAILS
RT STA 2030+65.82
FAI ROUTE 70 WB (RDWY A)

SHEET NO. 3 OF 3 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	444
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74296					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

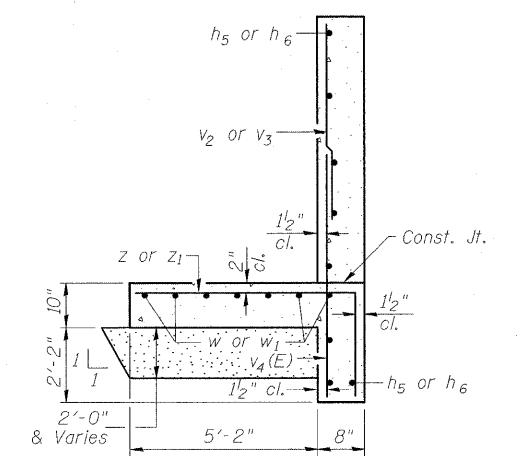


ELEVATION



SECTION THRU BARREL

Calculated Max. Soil Pressure Under Barrel = 2000 psf



SECTION A-A

Calculated Max. Soil Pressure Under Footing = 2250 psf

LOADING HS 20-44 & ALT.

DESIGN SPECIFICATIONS

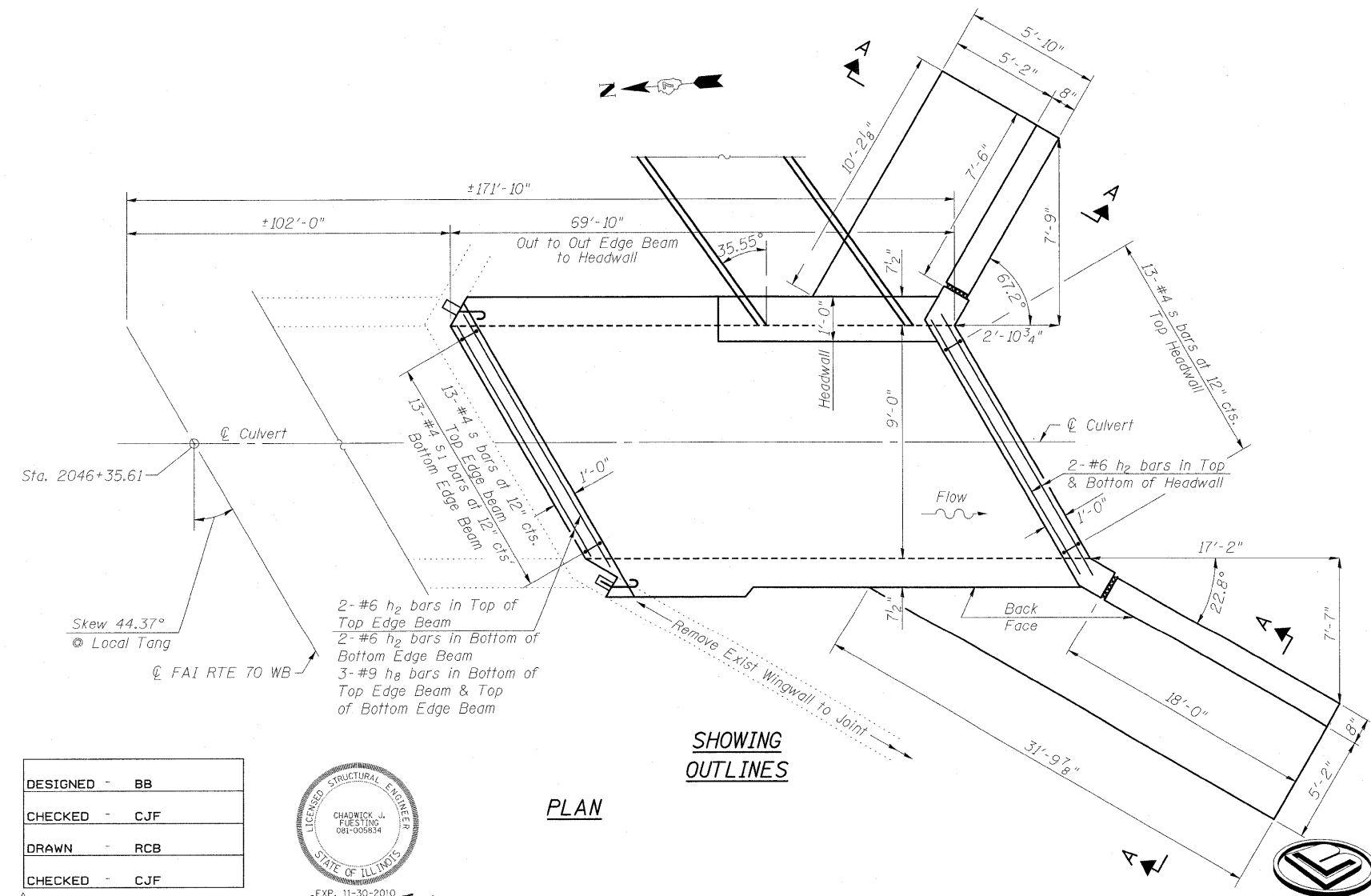
2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
$f_y = 40,000$ psi	$f_y = 60,000$ psi
$f'_c = 3,000$ psi	$f'_c = 3,500$ psi

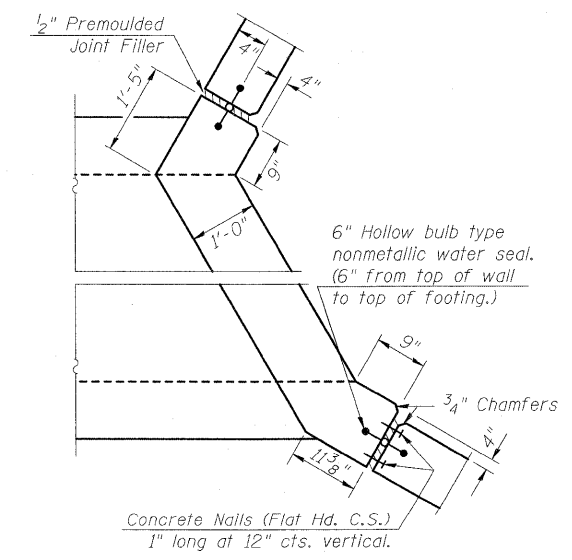
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.
Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.
Expansion bolts shall be according to Standard Specification Article 1006.10.
The depth of Removal and Replacement of Unsuitable Materials and Rockfill-Replacement as shown on the plans is estimated. The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers. The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.



SHOWING OUTLINES

PLAN



CORNER DETAIL

BOX CULVERT DETAILS
RT STA 2046+35.61
FAI ROUTE 70 WB (RDWY A)

DESIGNED -	BB
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF



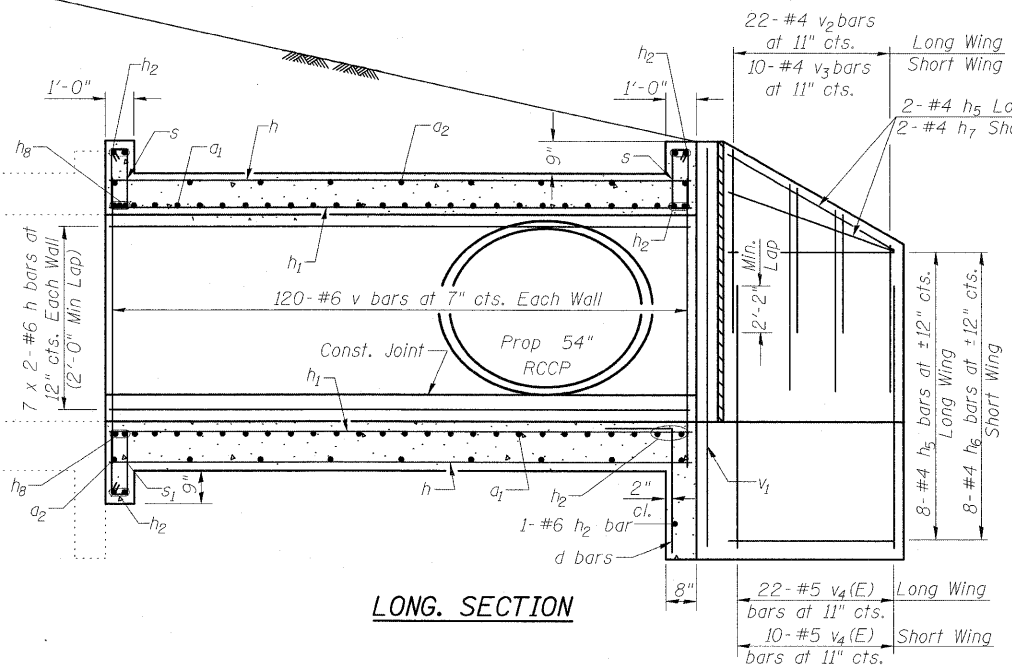
Revised Sheet 5/21/10 CJF

Illinois Design Firm Number 184.001670
BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Mareville, IL 62969-5635
Local (618) 288-4665
Fax 618-288-4666

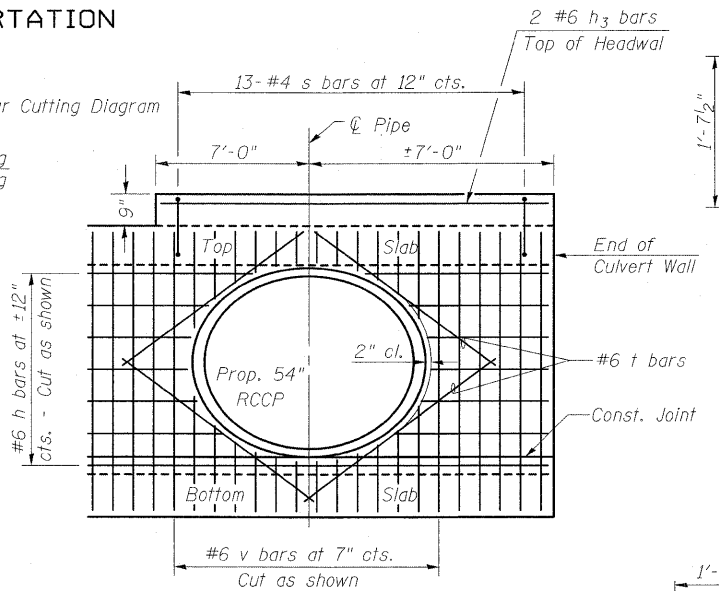
SHEET NO. 1 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	445
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74296					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

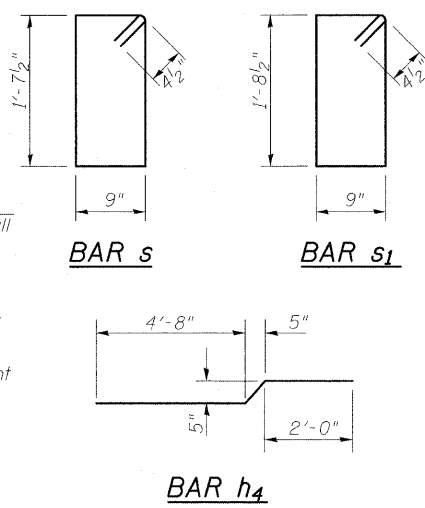
PG Elev. 555.49
FAI RTE TO WB



LONG. SECTION

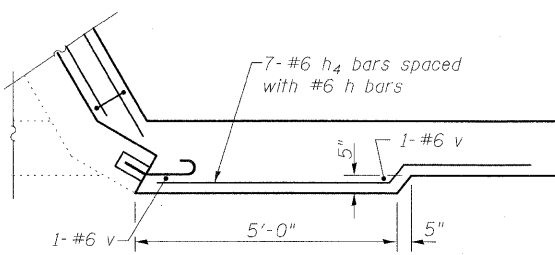


BAR DIAGRAM
AT PROP. PIPE



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	250	#10	12'-9"	
a2	68	#4	9'-11"	
d	10	#4	4'-6"	
h	68	#6	35'-10"	
h1	60	#6	24'-7"	
h2	11	#6	13'-9"	
h3	2	#6	13'-9"	
h4	7	#6	7'-3"	
h5	11	#4	17'-8"	
h6	9	#4	7'-2"	
h7	2	#4	7'-10"	
h8	6	#9	13'-9"	
s	39	#4	5'-6"	
s1	13	#4	5'-8"	
t	4	#6	6'-10"	
v	242	#6	8'-0"	
v1	4	#7	10'-6"	
v2	11	#4	11'-0"	
v3	5	#4	10'-11"	
v4(E)	32	#5	6'-0"	
w	7	#5	34'-3"	
w1	7	#5	13'-0"	
z	33	#7	8'-3"	
z1	13	#7	14'-10"	

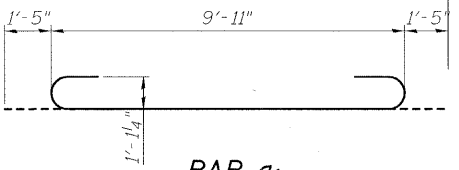


DETAIL A

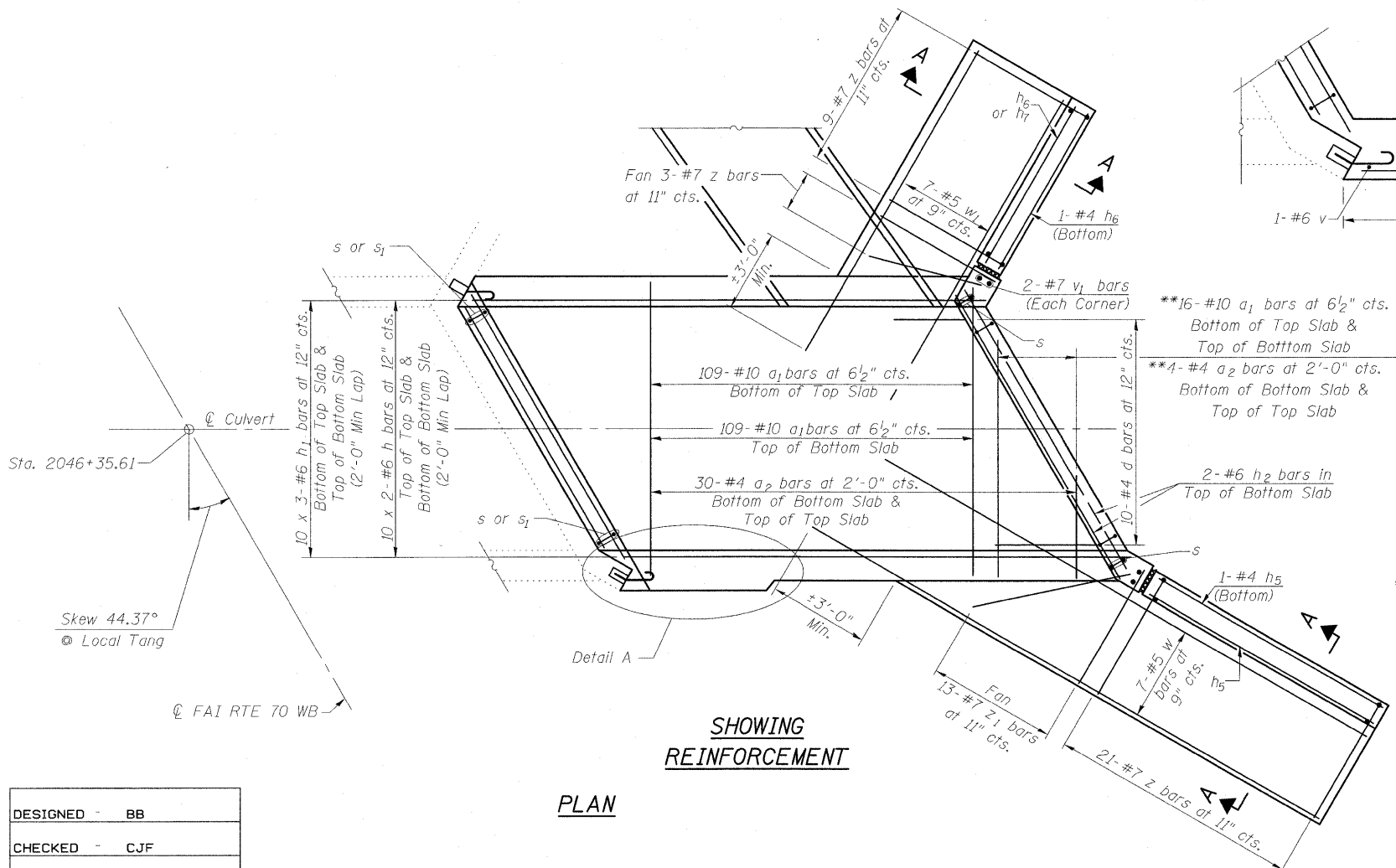
BAR d

BAR z & z1

*** Longest length required - 14'-10"
Field cut remaining bars to fit



BAR a1



PLAN

SHOWING
REINFORCEMENT

** a1 & a2 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert extension.

Notes:
Bars indicated thus 10 x 3-#6 etc. indicates 10 lines of bars with 3 lengths per line.
For Section A-A, see Sheet 1 of 3.
For Headwall & Edge Beam Reinforcement see Sheet 1 of 3.

BOX CULVERT DETAILS
RT STA 2046+35.61
FAI ROUTE 70 WB (RDWY A)

DESIGNED -	BB
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF

Revised Sheet 5/21/10 CJF



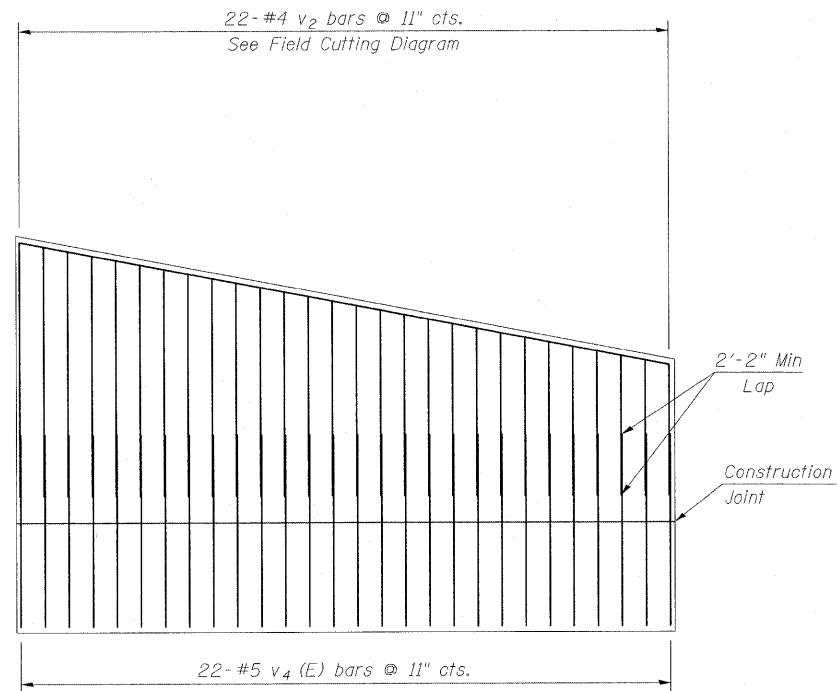
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Marysville, IL 62452-5635
Local (618) 288-4665
Fax 618-288-4666

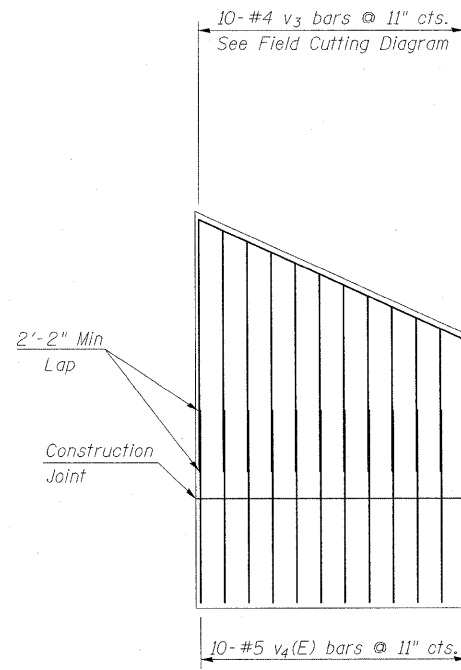
SHEET NO. 2 OF 3 SHEETS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	446
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 74296		

1:55:50 PM 5/21/2010 \\culvert\RT_2046+35.61\sheet\rdm

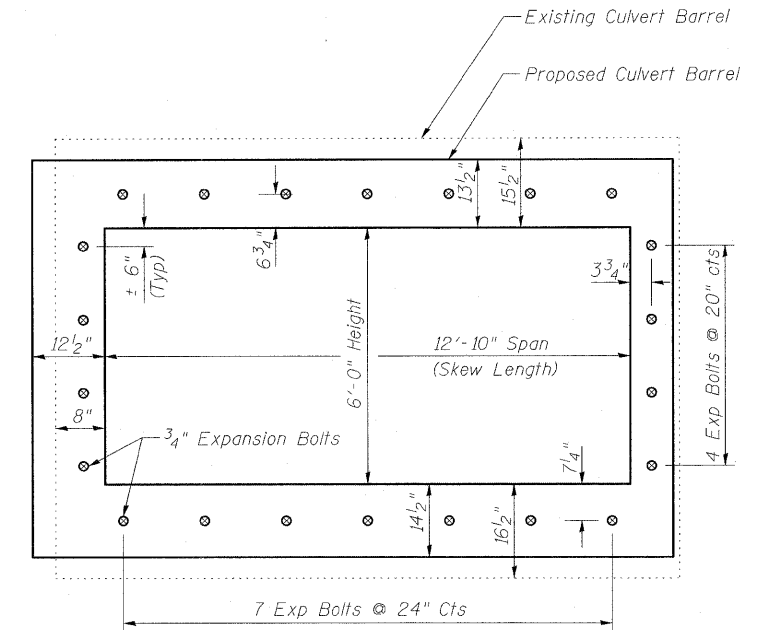
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**LONG WING
SHOWING REINFORCEMENT**

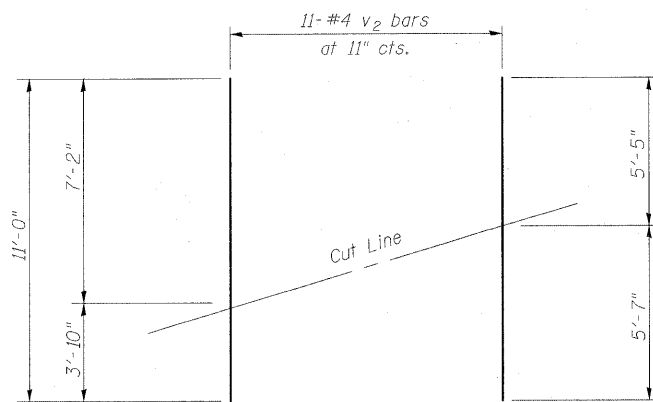


**SHORT WING
SHOWING REINFORCEMENT**

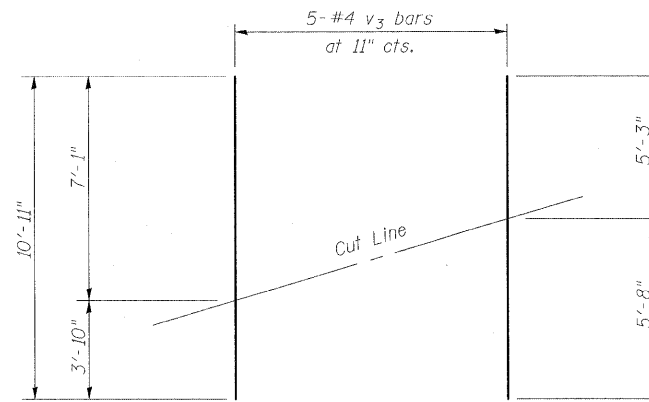


Note - Expansion Bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete

**EXPANSION BOLT LAYOUT
(at Face of Existing Culvert)**



**FIELD CUTTING DIAGRAM
(v2 bars)**



**FIELD CUTTING DIAGRAM
(v3 bars)**

DESIGNED -	BB
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF

Revised Sheet 5/21/10 CJF

Order v2 & v3 bars full length. Cut as shown. Use remainder of bar in opposite end of Wing Wall.



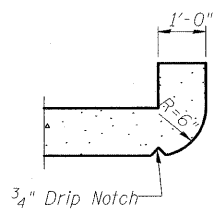
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62462-5685
Local (618) 328-4905
Fax 618-328-4995

**BOX CULVERT DETAILS
RT STA 2046+35.61
FAI ROUTE 70 WB (RDWY A)**

SHEET NO. 3 OF 3 SHEETS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	447
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74296					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
$f_y = 40,000 \text{ psi}$	$f_y = 60,000 \text{ psi}$
$f'_c = 3,000 \text{ psi}$	$f'_c = 3,500 \text{ psi}$

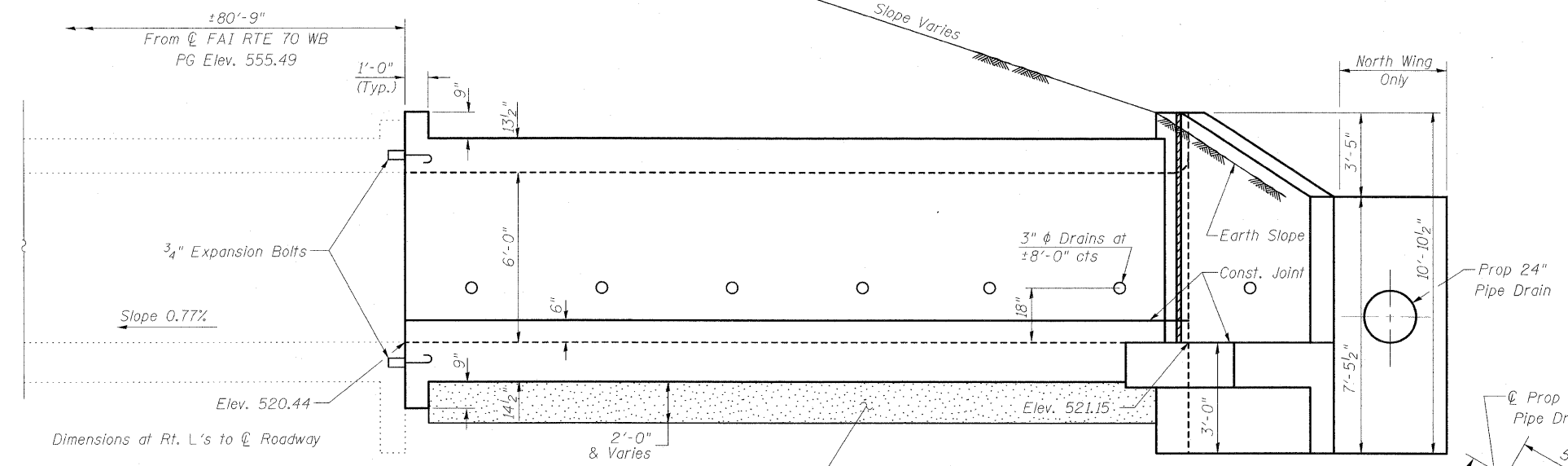
LOADING HS 20-44 & ALT.

DESIGN SPECIFICATIONS

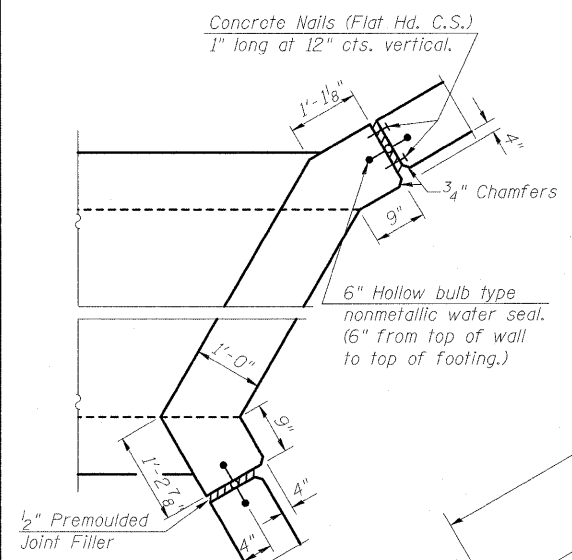
2002 AASHTO Standard Specifications
for Highway Bridges

GENERAL NOTES

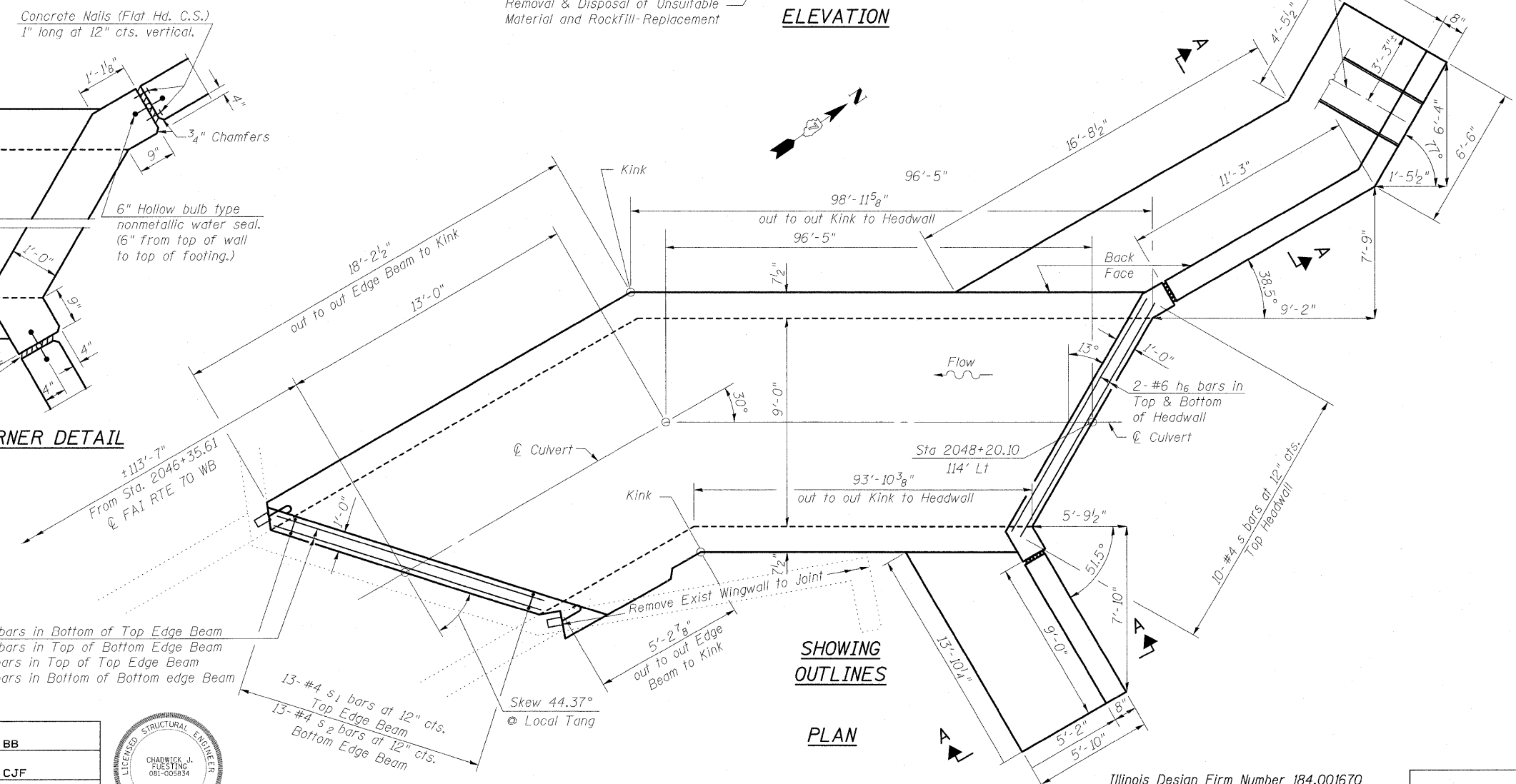
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.
Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.
Expansion bolts shall be according to Standard Specification Article 1006.10.
The depth of Removal and Replacement of Unsuitable Materials and Rockfill-Replacements as shown on the plans is estimated.
The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers.
The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.



ELEVATION



CORNER DETAIL



**SHOWING
OUTLINES**

PLAN

- 3- #10 h₅ bars in Bottom of Top Edge Beam
- 3- #10 h₅ bars in Top of Bottom Edge Beam
- 2- #6 h₄ bars in Top of Top Edge Beam
- 2- #6 h₄ bars in Bottom of Bottom edge Beam

- 13- #4 s₁ bars at 12" cts. Top Edge Beam
- 13- #4 s₂ bars at 12" cts. Bottom Edge Beam

DESIGNED -	BB
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF



EXP. 11-30-2010
Chadwick J. Rusting
5/21/2010

Revised Sheet 5/21/10 CJF

Note:
For Section A-A, see Sheet 2 of 3



Illinois Design Firm Number 184.001670
**BERNARD
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62902-5655
Local (618) 388-4665
Fax 618-288-4666

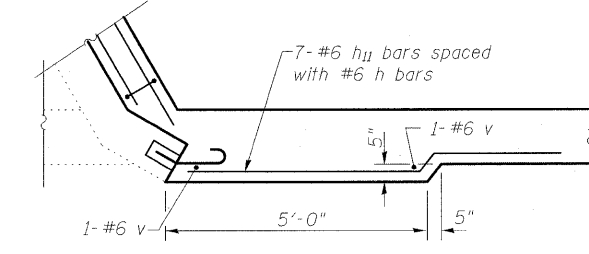
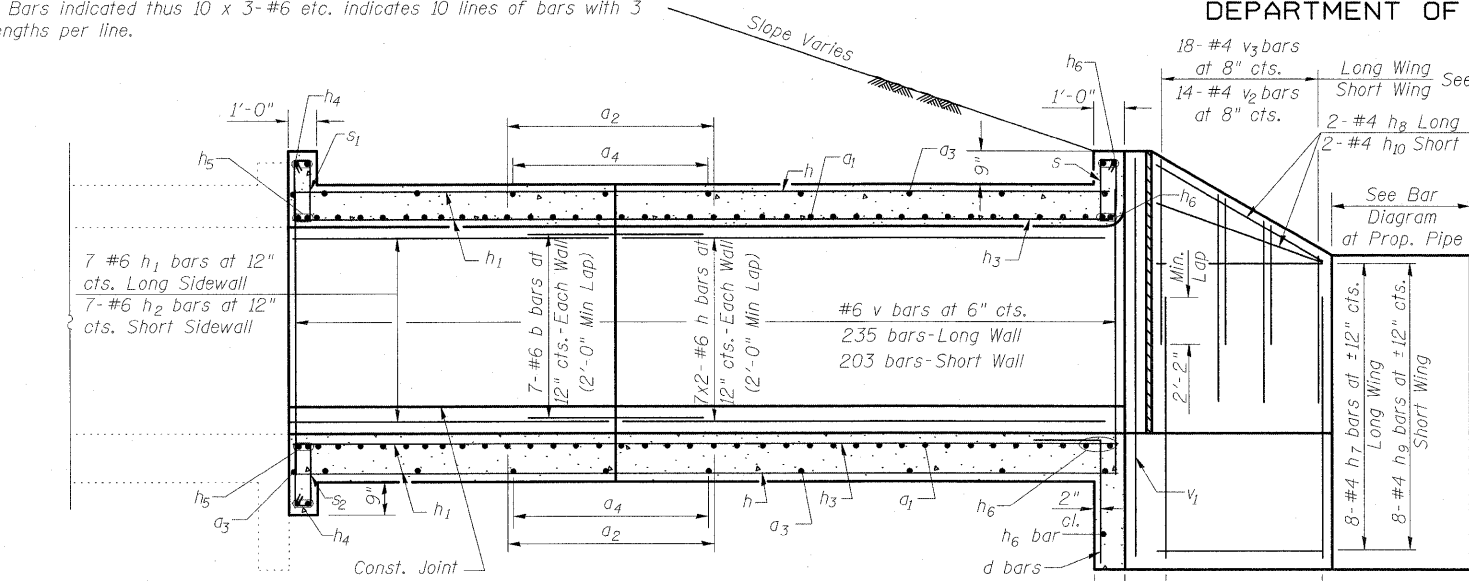
BOX CULVERT DETAILS
LT STA 2046+35.61
FAI ROUTE 70 WB (RDWY A)

SHEET NO. 1 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	448
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 74296		

1:55:46 PM 5/21/2010 \\schart\LT_2046-3561\sheet.dwg

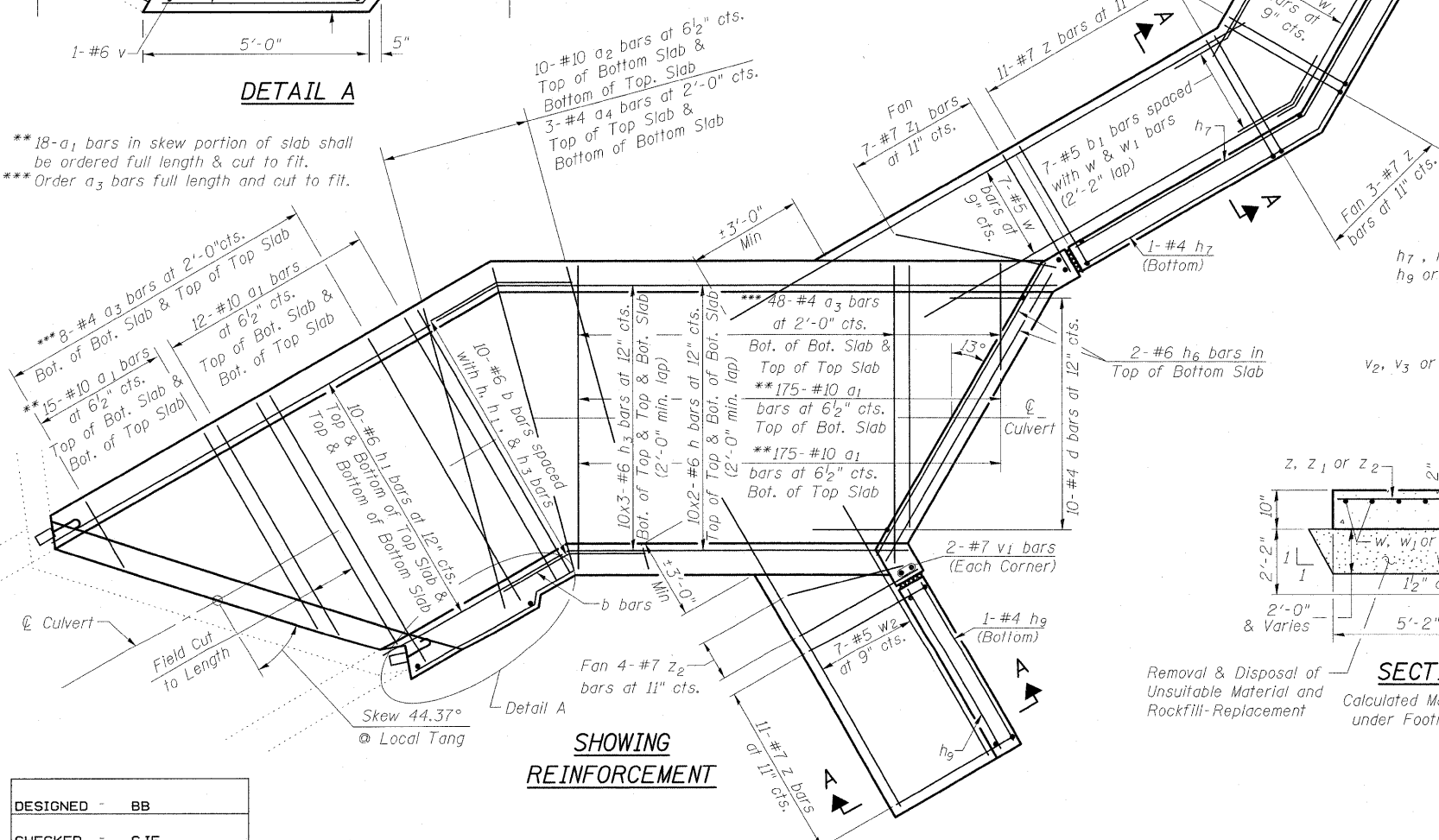
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
Bars indicated thus 10 x 3-#6 etc. indicates 10 lines of bars with 3 lengths per line.



LONG. SECTION

** 18- a_1 bars in skew portion of slab shall be ordered full length & cut to fit.
*** Order a_3 bars full length and cut to fit.

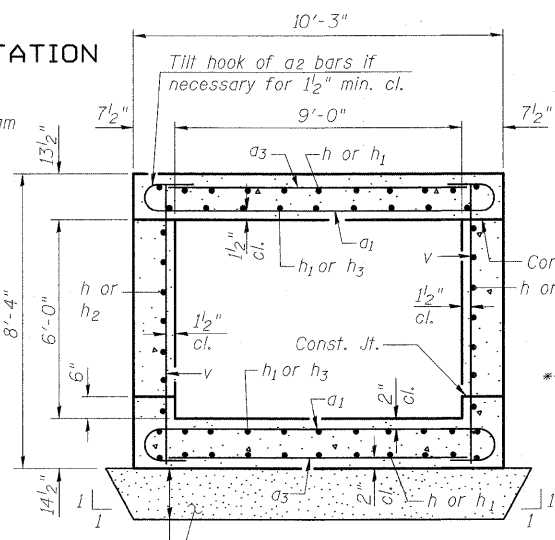


SHOWING REINFORCEMENT

PLAN

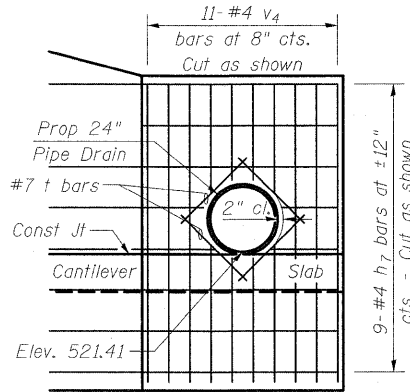
DESIGNED	BB
CHECKED	CJF
DRAWN	RCB
CHECKED	CJF

Revised Sheet 5/21/10 CJF

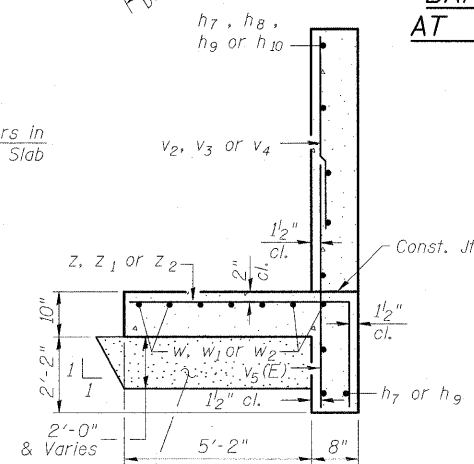


SECTION THRU BARREL

Calculated Max. Soil Pressure under Barrel = 2350 psf
Removal & Disposal of Unsuitable Material and Rockfill-Replacement

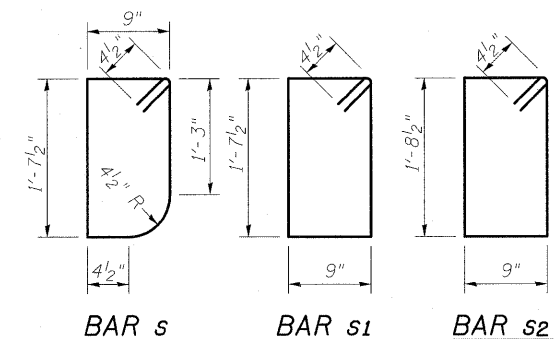


BAR DIAGRAM AT PROP. PIPE



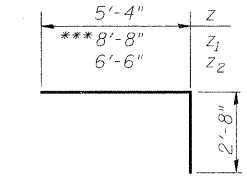
SECTION A-A

Calculated Max. Soil Pressure under Footing = 2250 psf
Removal & Disposal of Unsuitable Material and Rockfill-Replacement

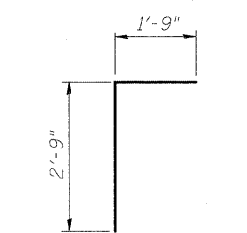


BAR s BAR s1 BAR s2

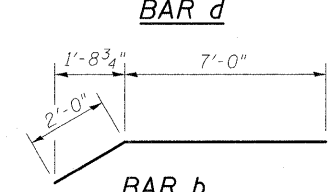
*** Longest length required - 8'-8"
Field cut remaining bars to fit



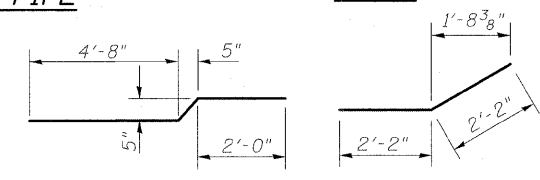
BAR z, z1 & z2



BAR d

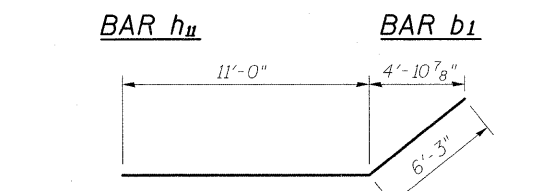


BAR b

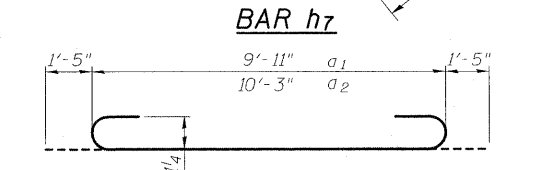


BAR hu

BAR b1



BAR h7



BAR a1 & a2

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	404	#10	12'-9"	[Shape]
a2	20	#10	13'-1"	[Shape]
a3	112	#4	9'-11"	[Shape]
a4	6	#4	10'-3"	[Shape]
b	54	#6	9'-0"	[Shape]
b1	7	#5	4'-4"	[Shape]
d	10	#4	4'-6"	[Shape]
h	68	#6	47'-10"	[Shape]
h1	47	#6	18'-0"	[Shape]
h2	7	#6	6'-9"	[Shape]
h3	60	#6	32'-7"	[Shape]
h4	4	#6	12'-2"	[Shape]
h5	6	#10	12'-2"	[Shape]
h6	7	#6	10'-0"	[Shape]
h7	9	#4	17'-3"	[Shape]
h8	2	#4	11'-4"	[Shape]
h9	9	#4	8'-8"	[Shape]
h10	2	#4	9'-3"	[Shape]
h11	7	#6	7'-3"	[Shape]
s	10	#4	5'-4"	[Shape]
s1	13	#4	5'-6"	[Shape]
s2	13	#4	5'-8"	[Shape]
t	4	#7	3'-4"	[Shape]
v	440	#6	8'-0"	[Shape]
v1	4	#7	10'-6"	[Shape]
v2	7	#4	10'-11"	[Shape]
v3	9	#4	11'-0"	[Shape]
v4	11	#4	3'-9"	[Shape]
v5(E)	43	#5	6'-0"	[Shape]
w	7	#5	19'-5"	[Shape]
w1	7	#5	6'-1"	[Shape]
w2	7	#5	16'-5"	[Shape]
z	31	#7	8'-0"	[Shape]
z1	7	#7	10'-8"	[Shape]
z2	4	#7	9'-2"	[Shape]
Concrete Box Culverts	Cu. Yd.		140.6	
Reinforcement Bars, Epoxy Coated	Pound		270	
Reinforcement Bars	Pound		41790	
3/4" Expansion Bolts	Each		22	
Concrete Removal	Cu. Yd.		6.9	
Removal & Disposal of Unsuitable Material	Cu. Yd.		112	
Rockfill-Replacement	Ton		235	

BOX CULVERT DETAILS
LT STA 2046+35.61
FAI ROUTE 70 WB (RDWY A)

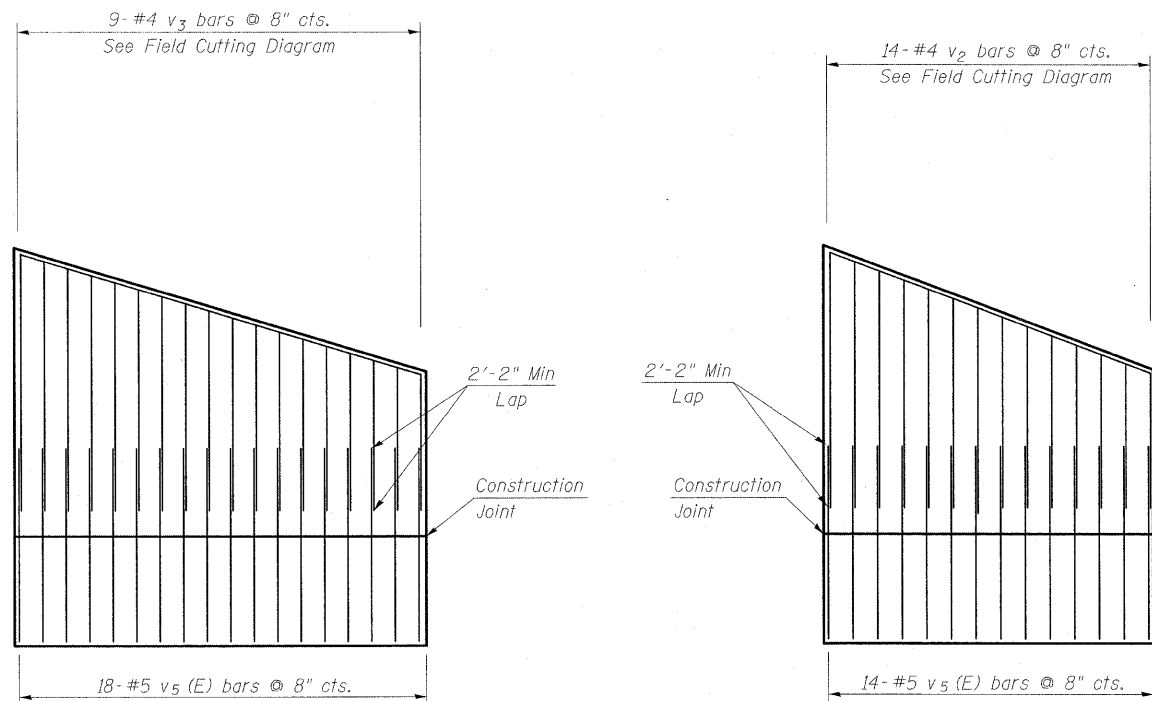


BERNARD LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62422-5655
Local (618) 288-4885
Fax (618) 288-4886

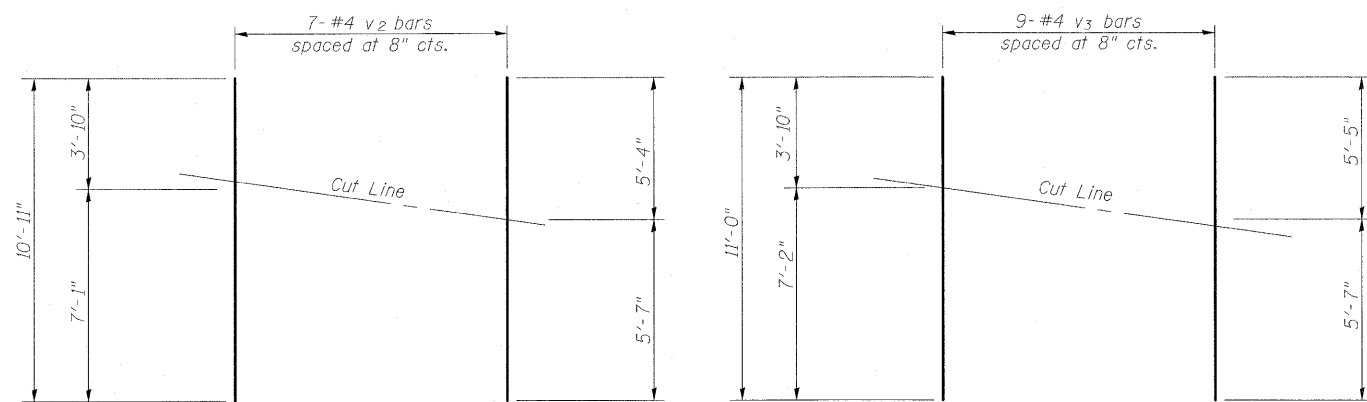
SHEET NO. 2 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	449
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 74296		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**LONG WING
SHOWING REINFORCEMENT**

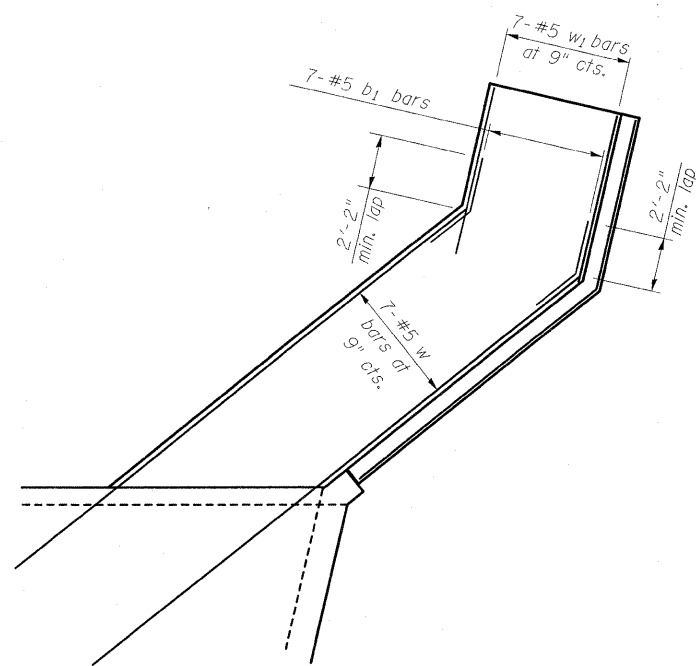
**SHORT WING
SHOWING REINFORCEMENT**



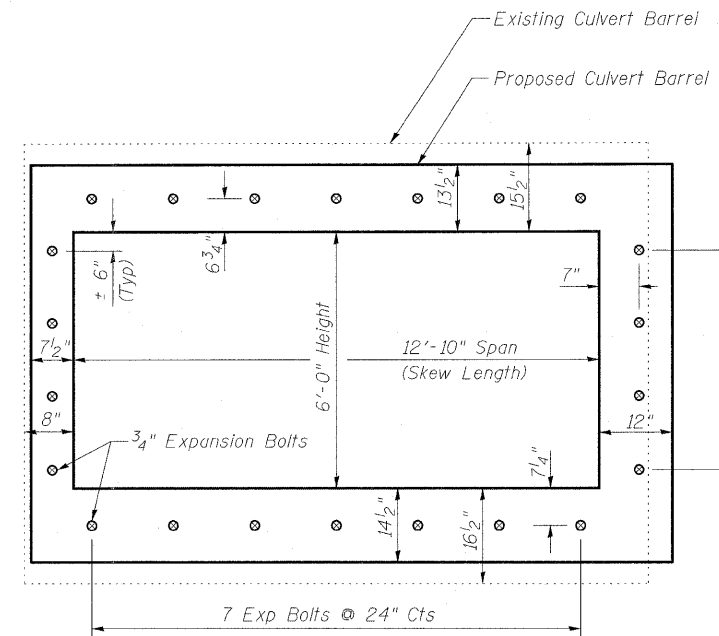
**FIELD CUTTING DIAGRAM
(v₂ bars)**

**FIELD CUTTING DIAGRAM
(v₃ bars)**

**FIELD CUTTING AND
PLACEMENT DIAGRAMS**

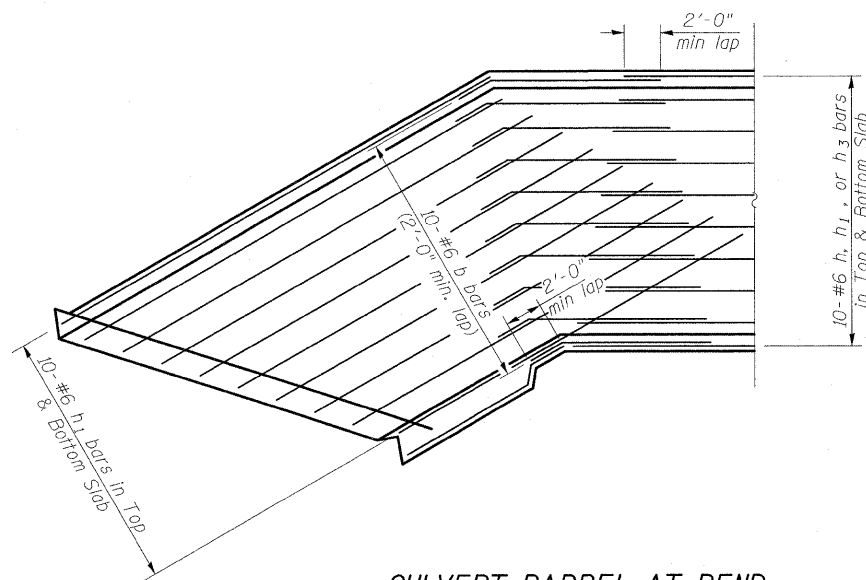


**LONG WING
SHOWING REINFORCEMENT**



Note - Expansion Bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete

**EXPANSION BOLT LAYOUT
(at Face of Culvert)**



**CULVERT BARREL AT BEND
SHOWING REINFORCEMENT**

DESIGNED	-	BB
CHECKED	-	CJF
DRAWN	-	RCB
CHECKED	-	CJF

Order v₂ & v₃ bars full length. Cut as shown. Use remainder of bar in opposite end of Wing Wall.

Revised Sheet 5/21/10 CJF



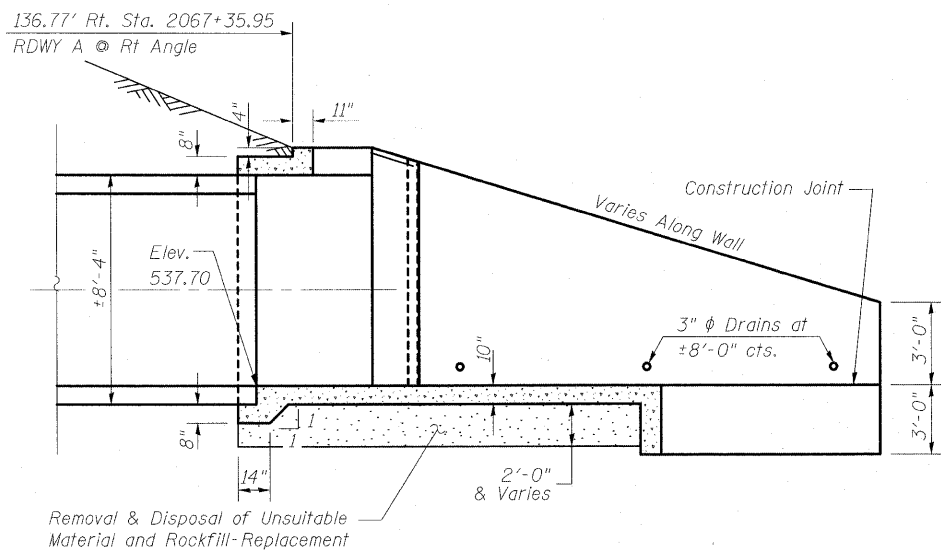
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62068-5685
Local (618) 288-4665
Fax 618-288-4666

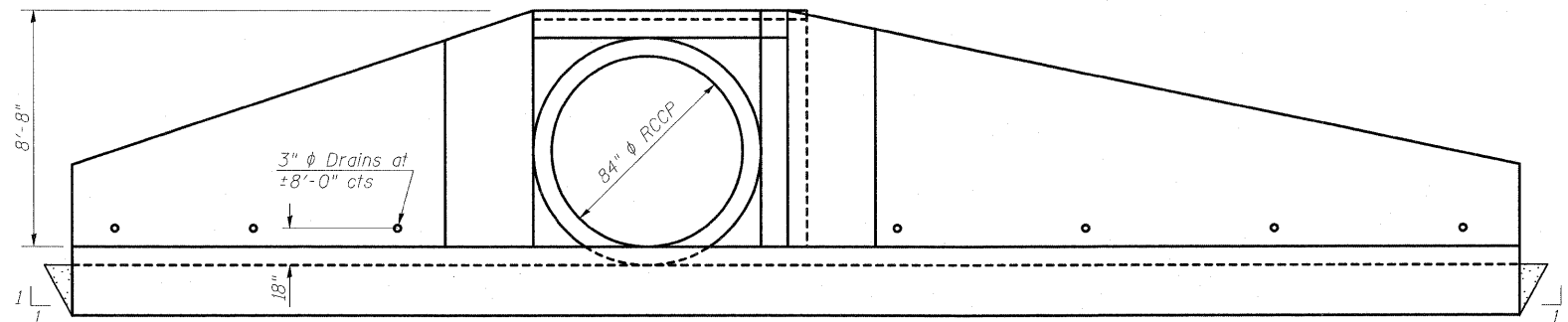
SHEET NO. 3 OF 3 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	450
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 74296		

**BOX CULVERT DETAILS
LT STA 2046+35.61
FAI ROUTE 70 WB (RDWY A)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

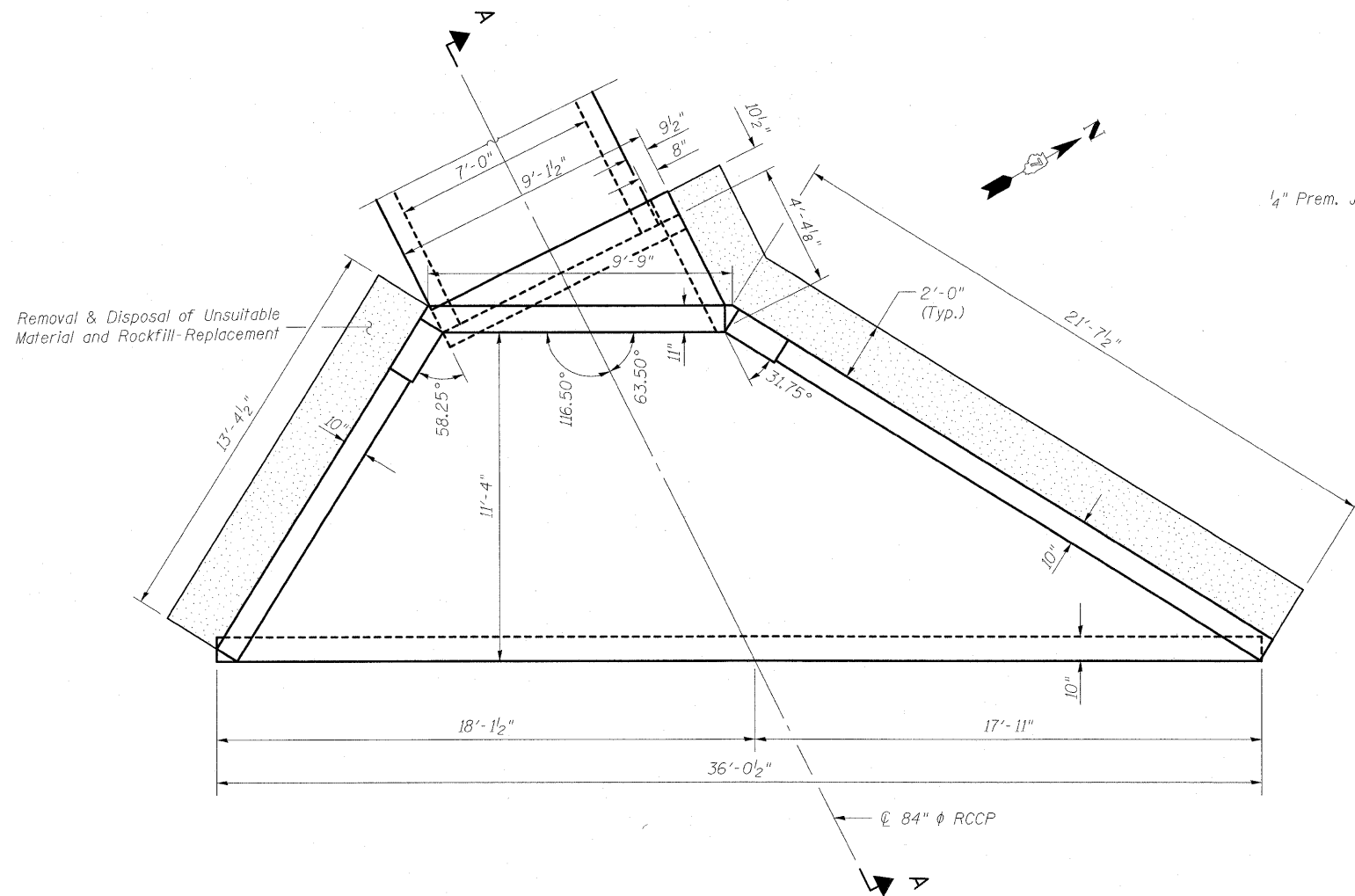


SECTION A-A

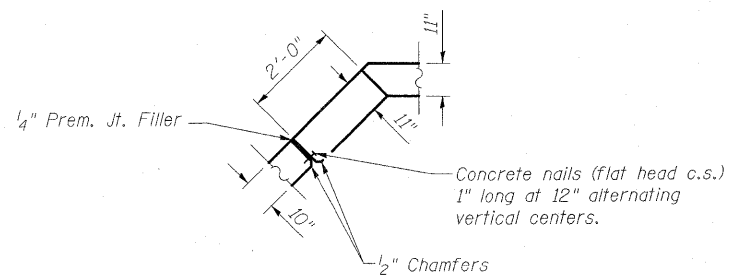


END ELEVATION

Calculated Max. Soil Pressure
under Box Culvert End Section = 500 psf



PLAN



CORNER DETAIL

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Build top of headwall parallel to grade line.
The depth of Removal and Replacement of Unsuitable Materials and Rockfill-Replacement as shown on the plans is estimated.
The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers.
The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Box Culvert End Section or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.

BILL OF MATERIAL

Item	Unit	Qty.
Removal & Disposal of Unsuitable Material	Cu. Yd.	24
Rockfill-Replacement	Ton	51
Cast-In-Place Reinforced Concrete End Sections 84"	Each	1

PIPE CULVERT DETAILS
RT STA 2066+58.72
FAI ROUTE 70 WB (RDWY A)

DESIGNED -	BB
CHECKED -	CJF
DRAWN -	WJS
CHECKED -	CJF



Chadwick J. Fuesting 5/24/2010

Revised Sheet 5/21/10 CJF

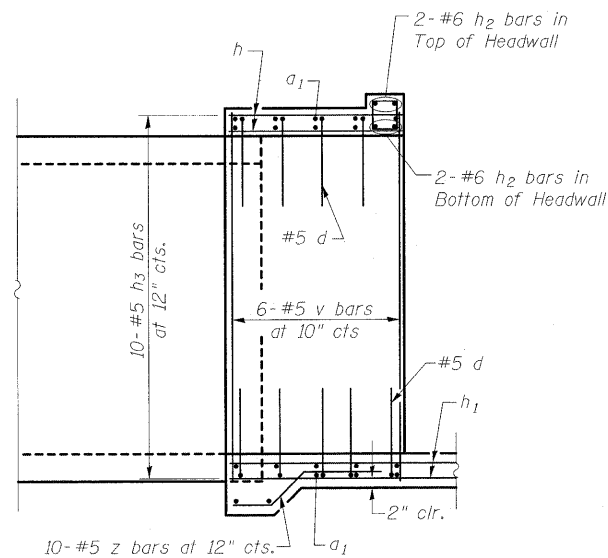


Illinois Design Firm Number 184.001670
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

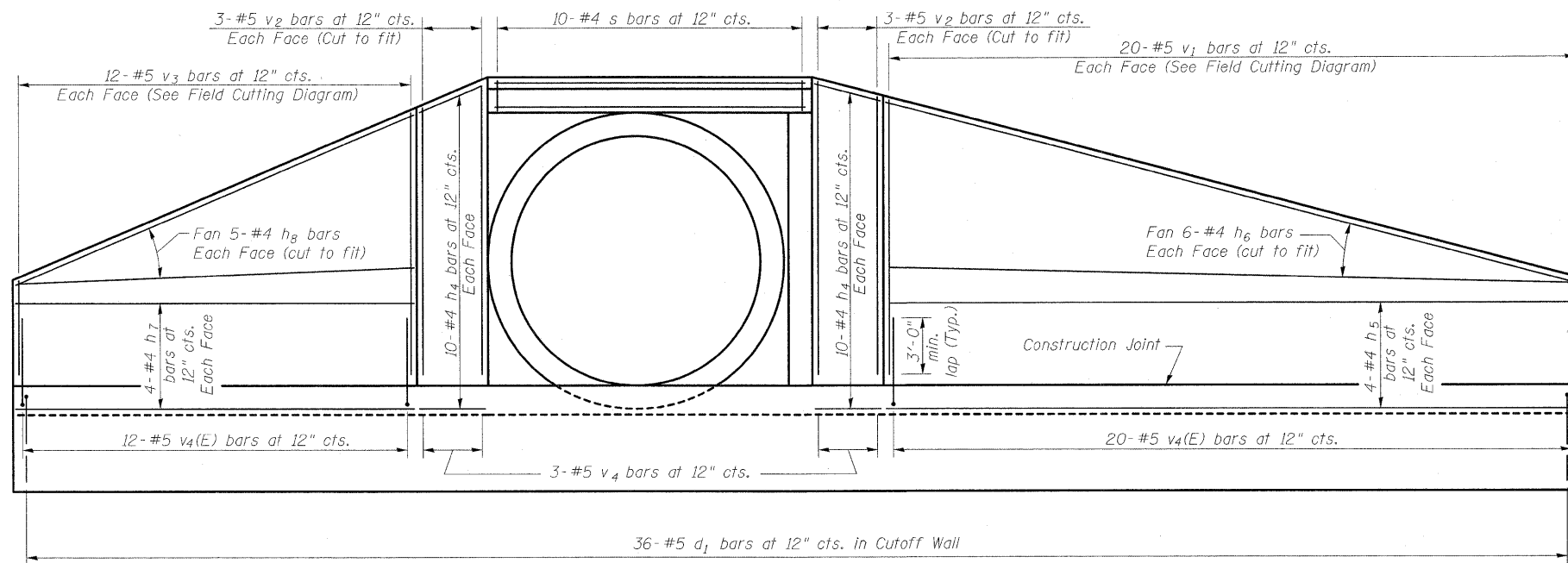
3 Oak Drive
Maryville, IL 62962-5635
Local-(618) 293-4655
Fax 618-298-4656

SHEET NO. 1	F.A.I. RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 451
OF 3 SHEETS	CONTRACT NO. 74296				
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

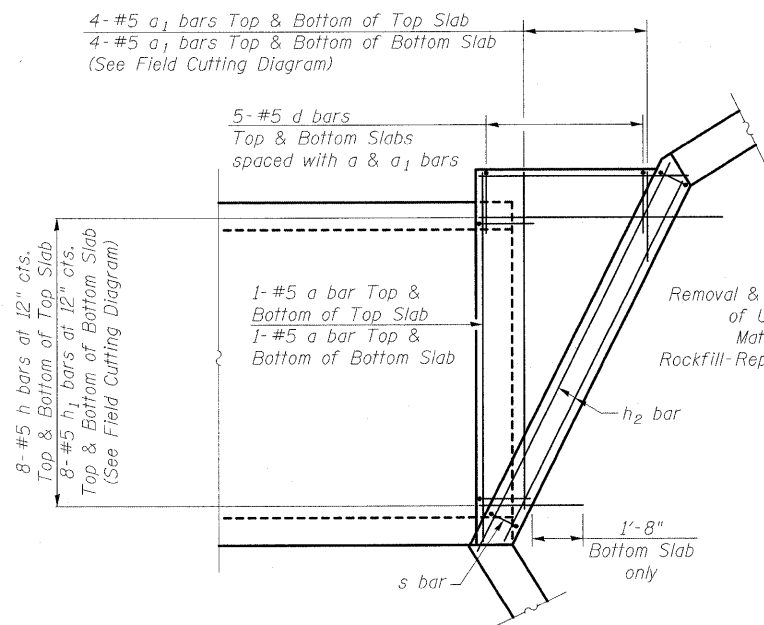


END OF PIPE ELEVATION

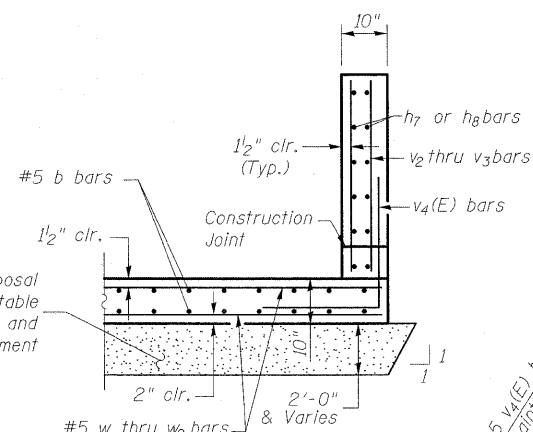


END ELEVATION

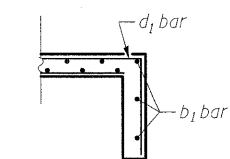
(Showing Wall Reinforcement)



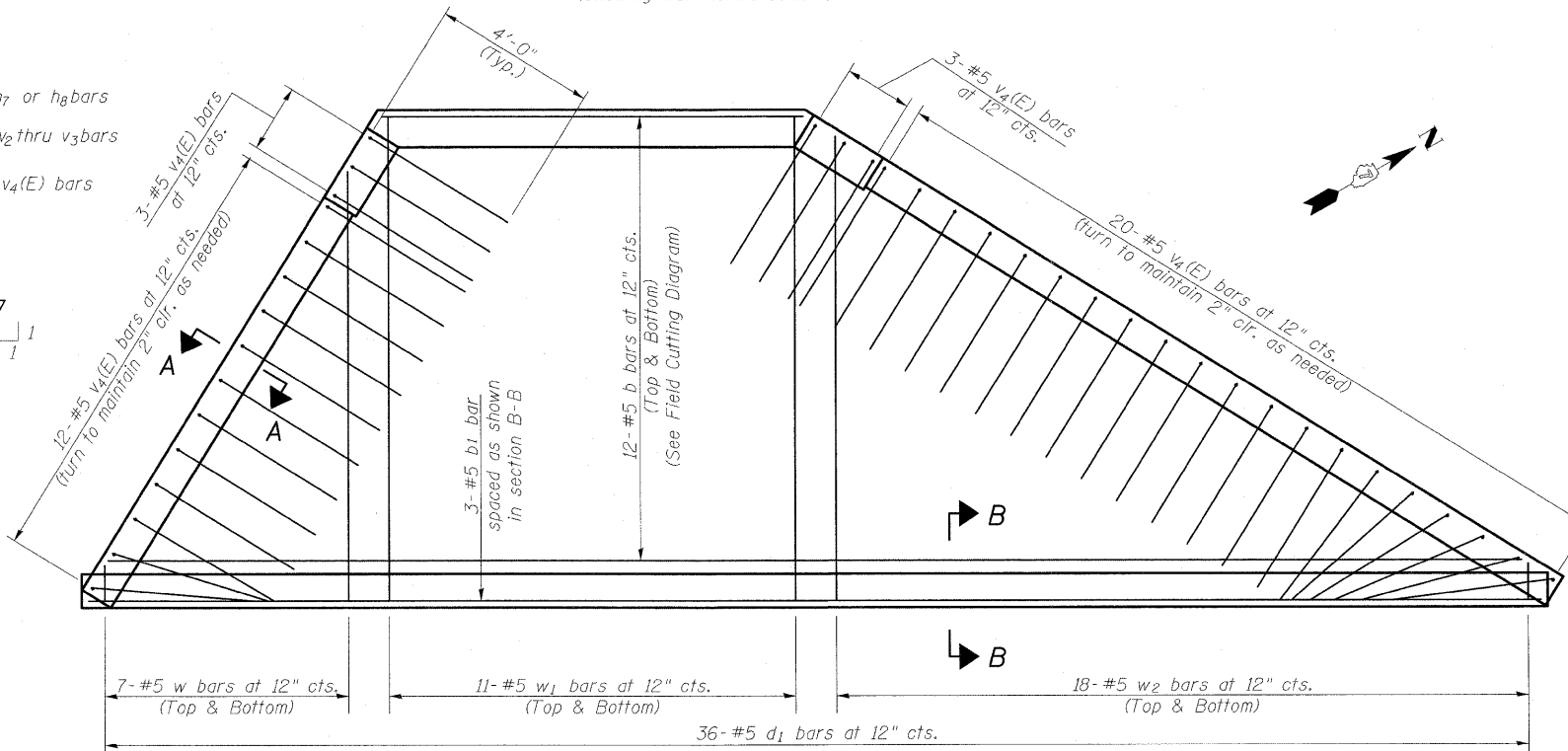
END OF PIPE PLAN



SECTION A-A



SECTION B-B



PLAN

(Showing Slab Reinforcement)

Note:
See sheet 3 of 3 for Bar Bends, Field
Cutting Diagrams and Bill of Materials.

PIPE CULVERT DETAILS
RT STA 2066+58.72
FAI ROUTE 70 WB (RDWY A)

DESIGNED	BB
CHECKED	CJF
DRAWN	WJS
CHECKED	CJF

Revised Sheet 5/21/10 CJF

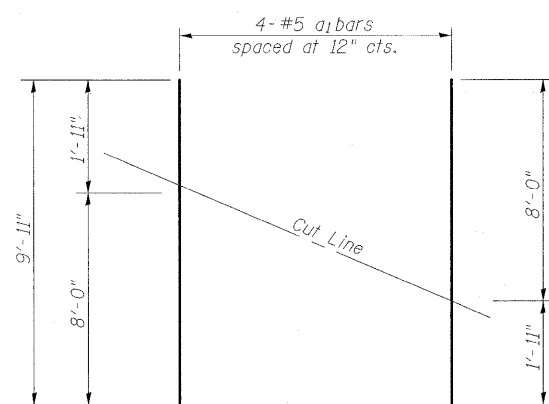


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

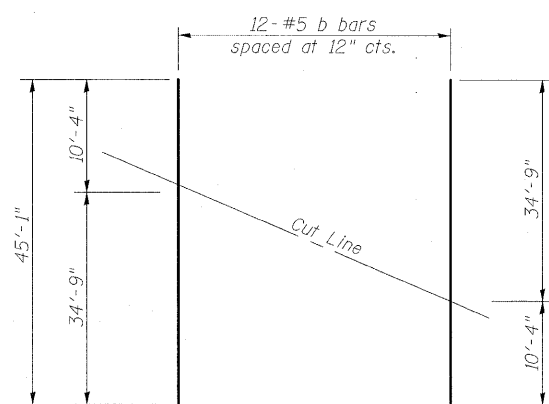
3 Oak Drive
Maryville, IL 62442-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 2 OF 3 SHEETS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	452
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74296					

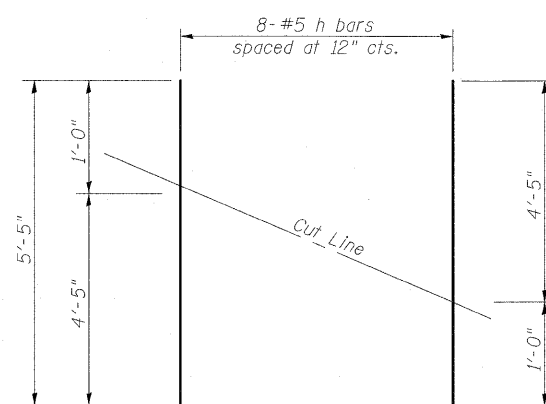
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



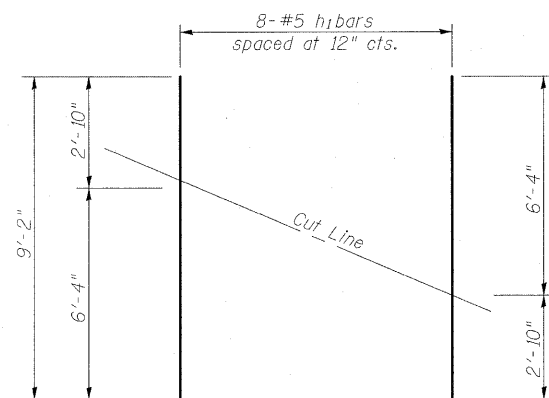
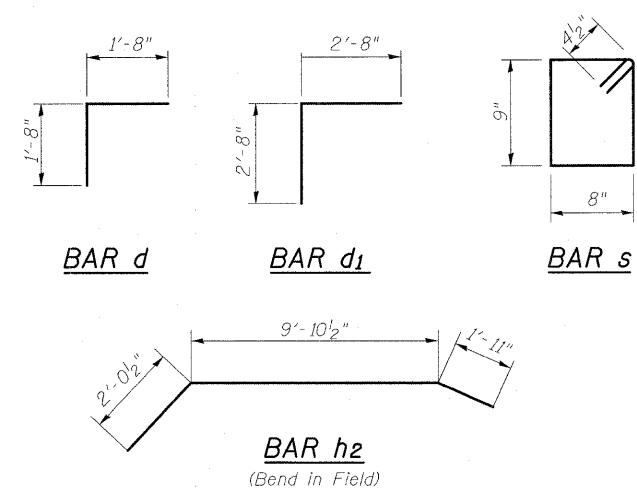
FIELD CUTTING DIAGRAM
(a₁ bars)



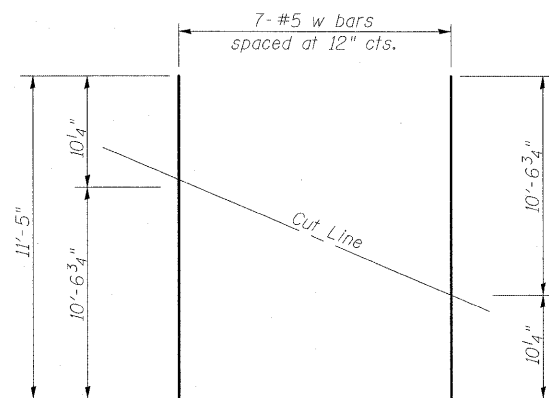
FIELD CUTTING DIAGRAM
(b bars)



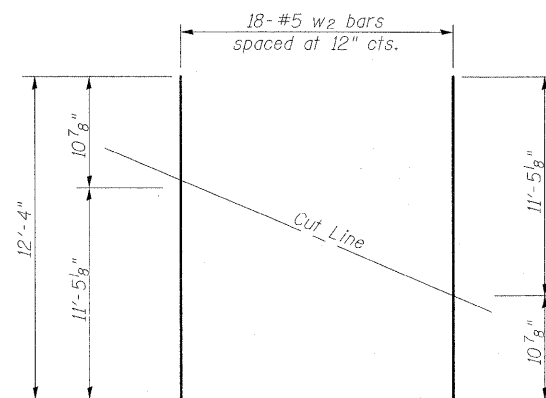
FIELD CUTTING DIAGRAM
(h bars)



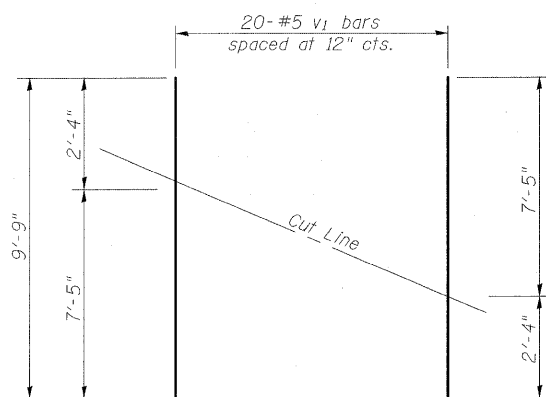
FIELD CUTTING DIAGRAM
(h₁ bars)



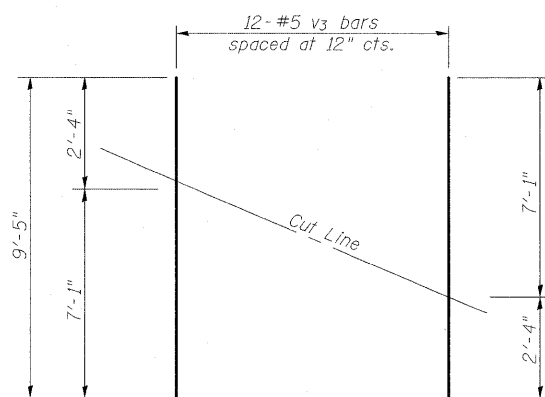
FIELD CUTTING DIAGRAM
(w bars)



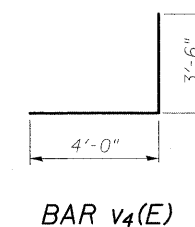
FIELD CUTTING DIAGRAM
(w₂ bars)



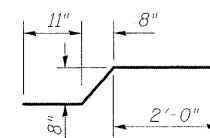
FIELD CUTTING DIAGRAM
(v₁ bars)



FIELD CUTTING DIAGRAM
(v₃ bars)



BAR v₄(E)



BAR z

**BILL OF MATERIAL
FOR INFORMATION ONLY**

Bar	No.	Size	Length	Shape
a	4	#5	8'-9"	—
a ₁	8	#5	9'-11"	—
b	12	#5	45'-1"	—
b ₁	3	#5	35'-8"	—
d	10	#5	3'-4"	┌
d ₁	36	#5	5'-4"	┌
h	8	#5	5'-5"	—
h ₁	8	#5	9'-2"	—
h ₂	4	#6	13'-10"	┌
h ₃	10	#5	4'-0"	—
h ₄	40	#4	1'-8"	—
h ₅	8	#4	19'-3"	—
h ₆	12	#4	19'-11"	—
h ₇	8	#4	11'-0"	—
h ₈	10	#4	12'-0"	—
s	10	#4	3'-7"	□
v	6	#5	8'-10"	—
v ₁	20	#5	9'-9"	—
v ₂	12	#5	7'-11"	—
v ₃	12	#5	9'-5"	—
v ₄ (E)	38	#5	7'-6"	┌
w	7	#5	11'-5"	—
w ₁	22	#5	11'-9"	—
w ₂	18	#5	12'-4"	—
z	8	#5	3'-10"	—
Class SI Concrete			Cu. Yd.	20.9
Reinforcement Bars, Epoxy Coated			Pound	300
Reinforcement Bars			Pound	2840

**PIPE CULVERT DETAILS
RT STA 2066+58.72
FAI ROUTE 70 WB (RDWY A)**

DESIGNED	BB
CHECKED	CJF
DRAWN	WJS
CHECKED	CJF

Order a₁, b, h, h₁, w, w₂, v₁ & v₃ bars full length. Cut as shown. Use remainder of bar in opposite face.

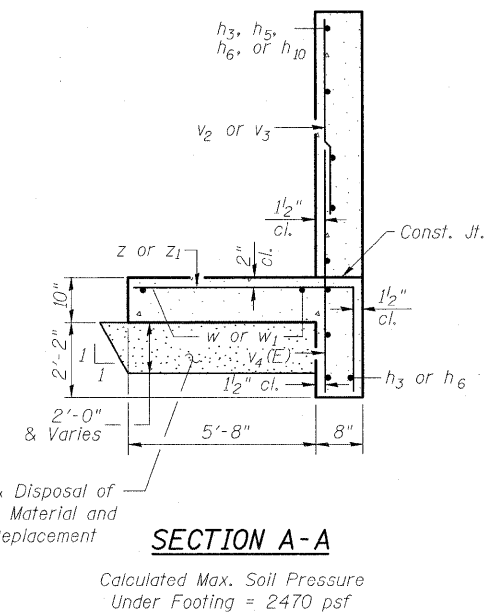
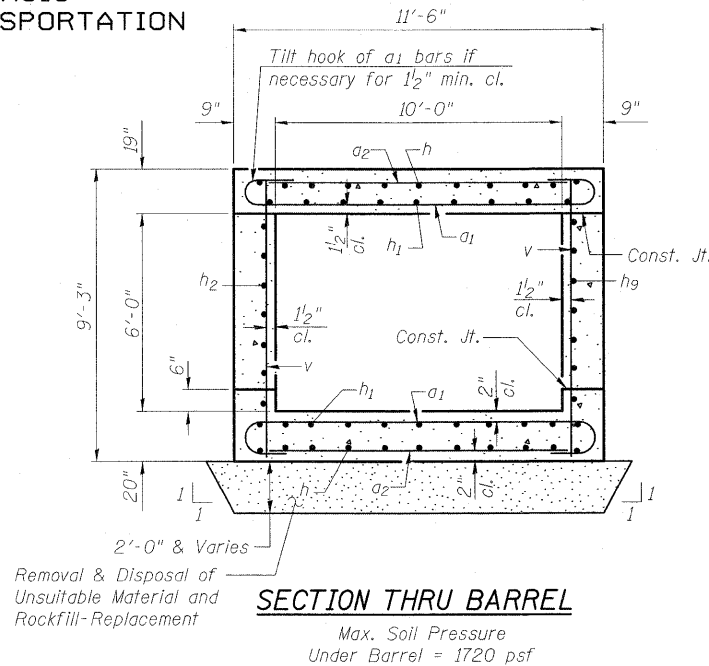
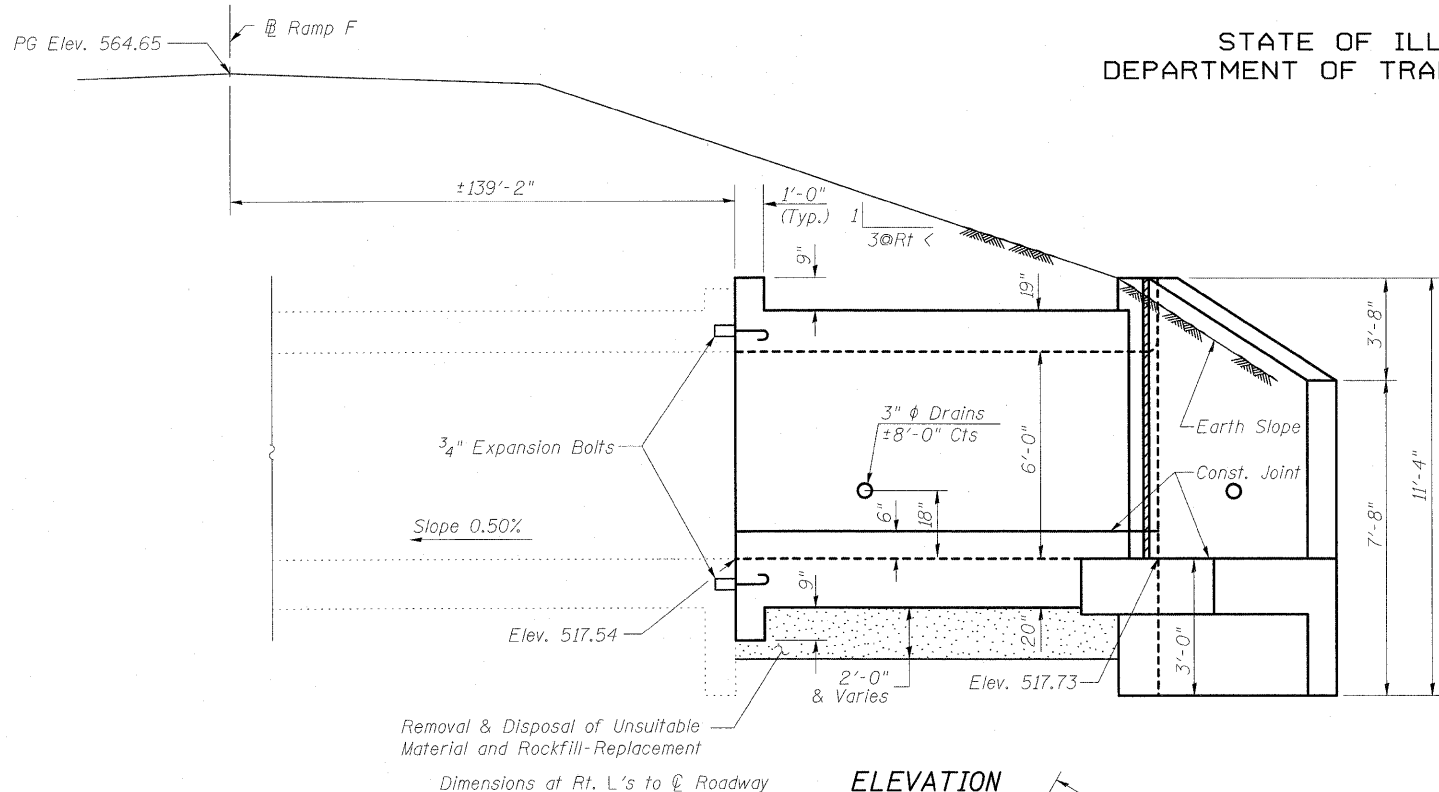


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Mareville, IL 62969-5635
Local (618) 288-4665
Fax 618-288-4666

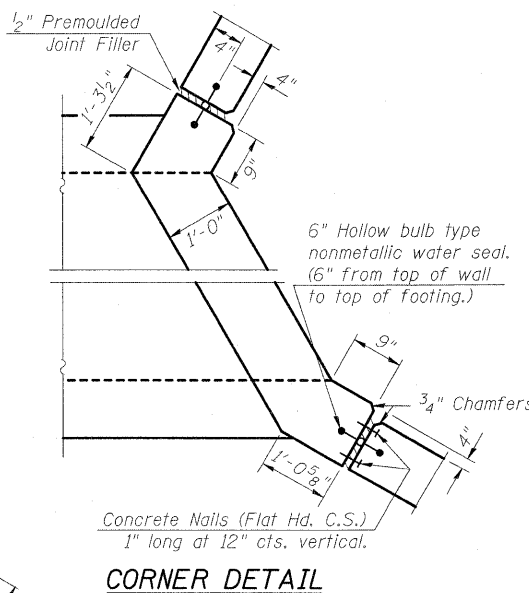
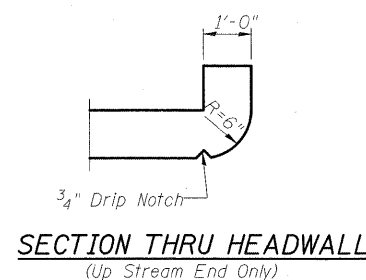
SHEET NO. 3 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	452A
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 74296		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.
Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.
Expansion bolts shall be according to Standard Specification Article 1006.10.
The depth of Removal and Replacement of Unsuitable Materials and Rockfill-Replacement as shown on the plans is estimated. The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers. The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.



DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
f _y = 40,000 psi	f _y = 60,000 psi
f'c = 3,000 psi	f'c = 3,500 psi

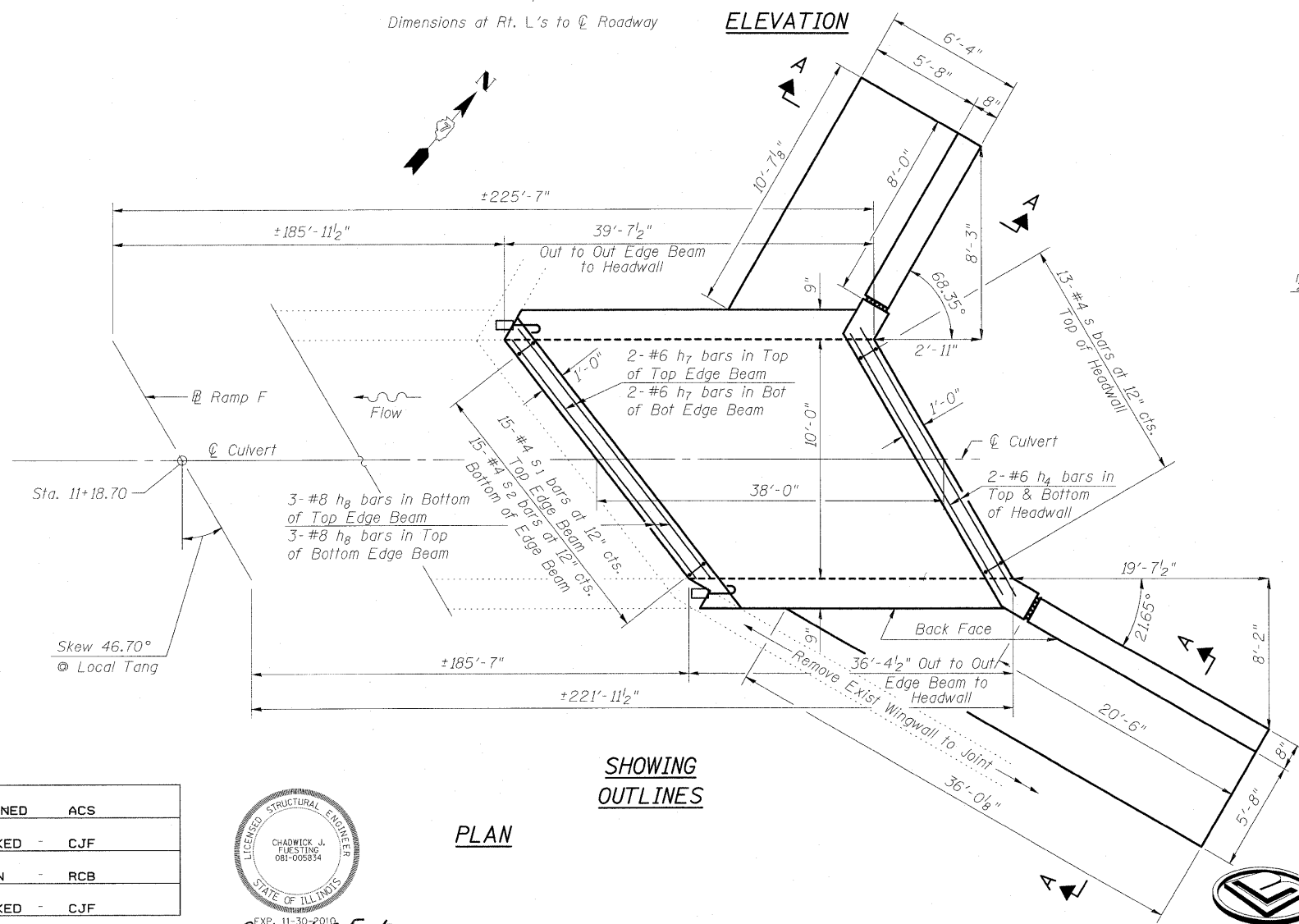
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44 & ALT.

BOX CULVERT DETAILS
RT STA 11+18.70
RAMP F WB

ELEVATION



DESIGNED	ACS
CHECKED	CJF
DRAWN	RCB
CHECKED	CJF



EXP. 11-30-2010
Chadwick J. Fuesting
5/21/2010

Revised Sheet 5/21/10 CJF

Illinois Design Firm Number 184.001670

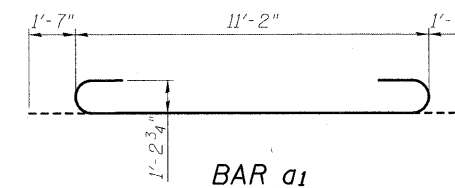
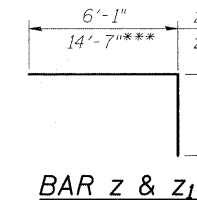
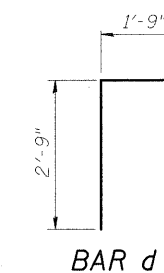
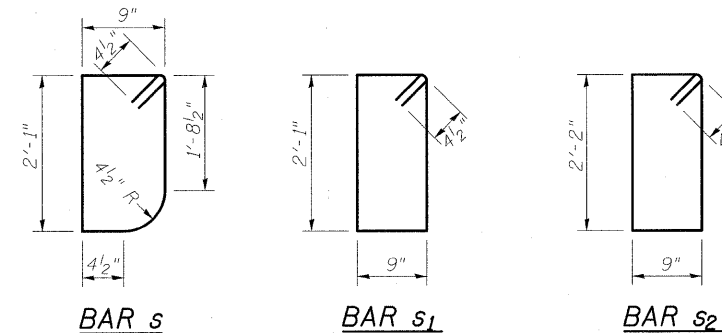
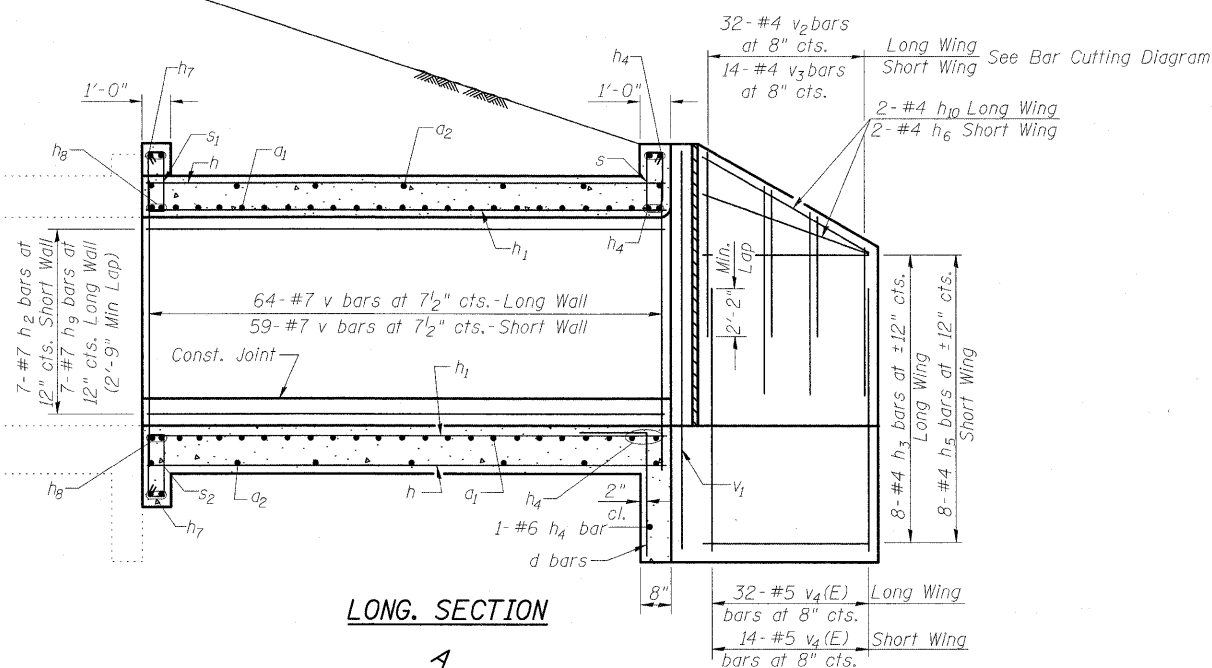
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62962-0633
Local: (618) 288-4665
Fax: 618-288-4666

SHEET NO. 1 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	453
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 74296					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PG Elev. 564.65 Ramp F



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a1	212	#11	14'-4"	U	
a2	46	#4	11'-2"	U	
d	11	#4	4'-6"	T	
h	44	#7	21'-1"	—	
h1	66	#7	15'-0"	—	
h2	7	#7	36'-0"	—	
h3	9	#4	20'-2"	—	
h4	7	#6	12'-9"	—	
h5	9	#4	7'-8"	—	
h6	2	#4	8'-6"	—	
h7	4	#6	14'-4"	—	
h8	6	#8	14'-4"	—	
h9	7	#7	39'-3"	—	
h10	2	#4	20'-5"	—	
s	13	#4	6'-3"	U	
s1	15	#4	6'-5"	U	
s2	15	#4	6'-7"	U	
v	123	#7	8'-11"	—	
v1	4	#7	11'-0"	—	
v2	16	#4	11'-8"	—	
v3	7	#4	11'-7"	—	
v4(E)	46	#5	6'-0"	—	
w	9	#5	38'-5"	—	
w1	9	#5	13'-4"	—	
z	48	#7	8'-9"	—	
z1	20	#7	17'-3"	—	
Concrete Box Culverts				Cu. Yd.	80.5
Reinforcement Bars, Epoxy Coated				Pound	290
Reinforcement Bars				Pound	26920
3/4" Expansion Bolts				Each	24
Concrete Removal				Cu. Yd.	7.2
Removal & Disposal of Unsuitable Material				Cu. Yd.	54
Rockfill- Replacement				Ton	114

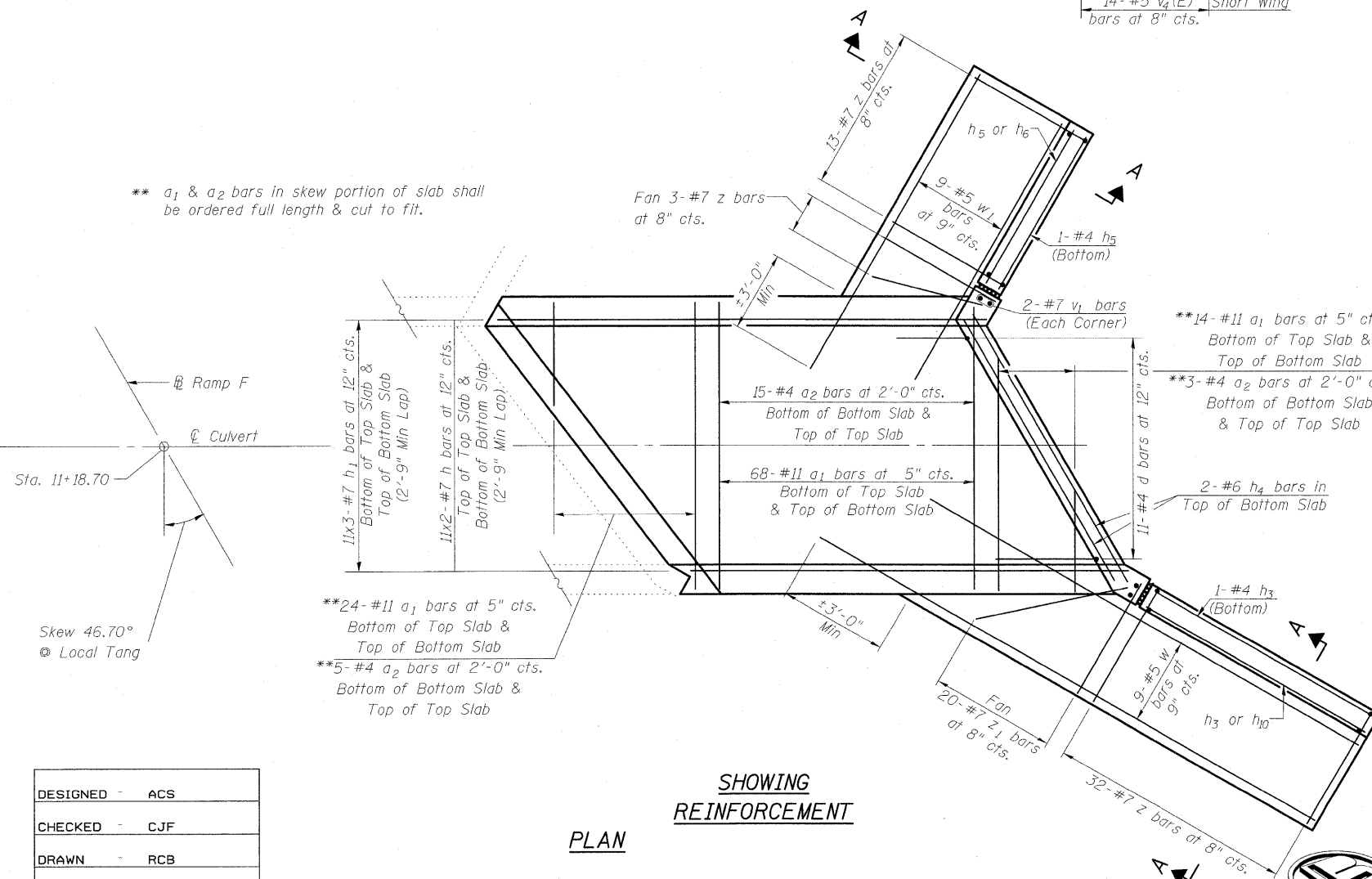
*** Longest length required - 14'-7"
Field cut remaining bars to fit

Notes:
Bars indicated thus 11 x 2-#7 etc. indicates 11 lines of bars with 2 lengths per line.
For Section A-A, see Sheet 1 of 3.
For Headwall and Edge Beam Reinforcement, see Sheet 1 of 3.

** a1 & a2 bars in skew portion of slab shall be ordered full length & cut to fit.

SHOWING REINFORCEMENT

PLAN



DESIGNED	ACS
CHECKED	CJF
DRAWN	RCB
CHECKED	CJF

Revised Sheet 5/21/10 CJF

BOX CULVERT DETAILS
RT STA 11+18.70
RAMP F WB

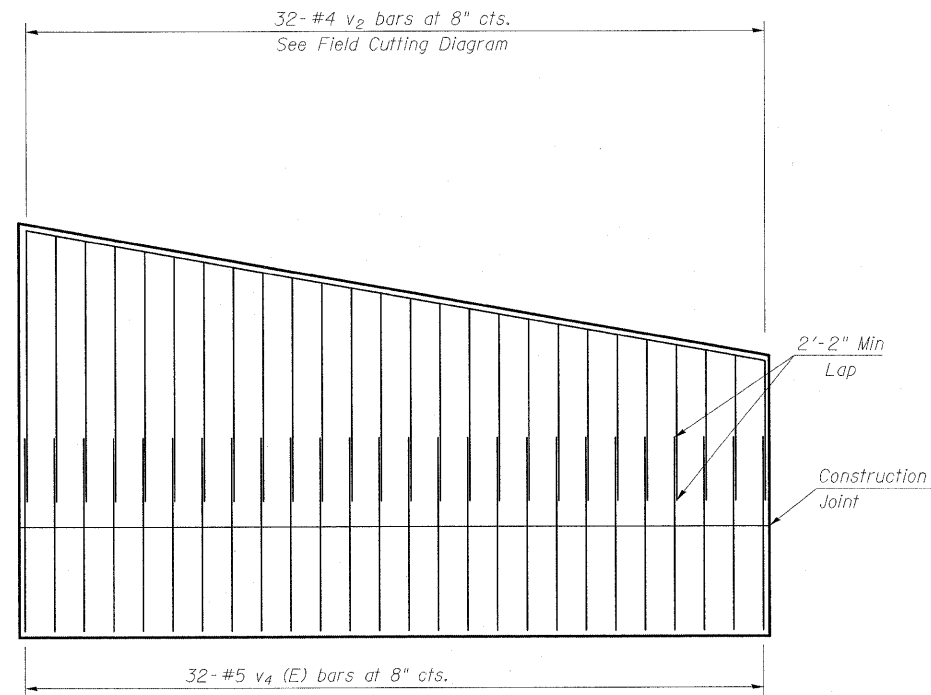
SHEET NO. 2 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	454
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74296					



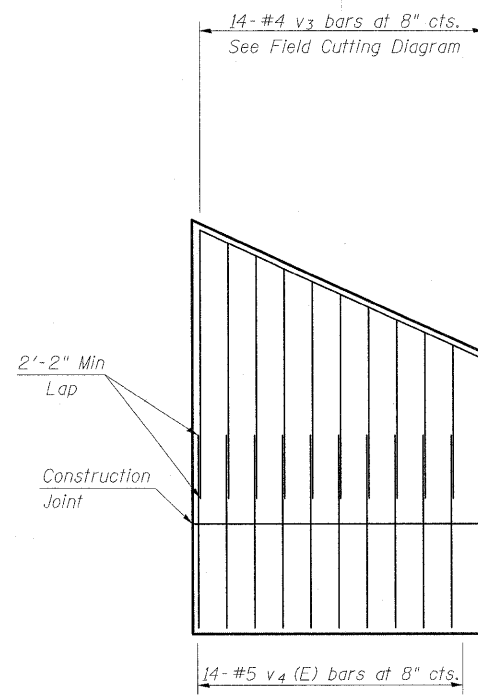
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62962-4635
Local (618) 288-4665
Fax 618-288-4666

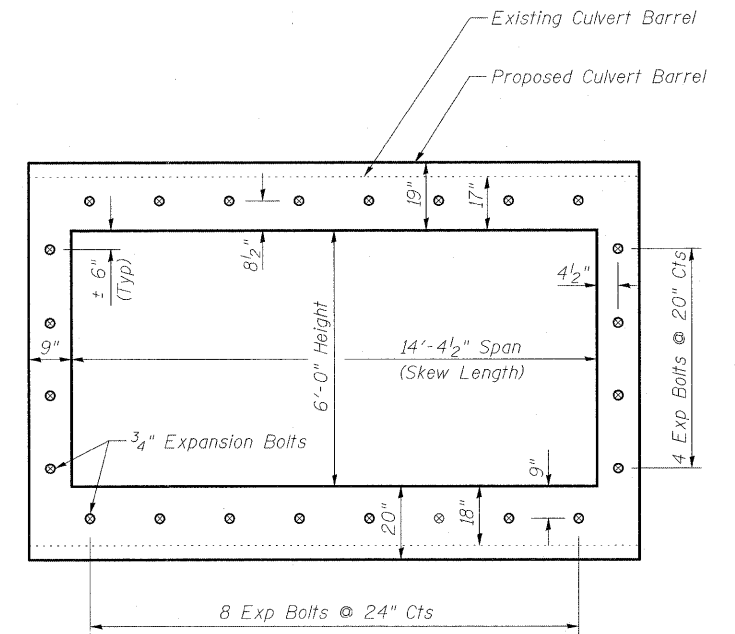
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**LONG WING
SHOWING REINFORCEMENT**

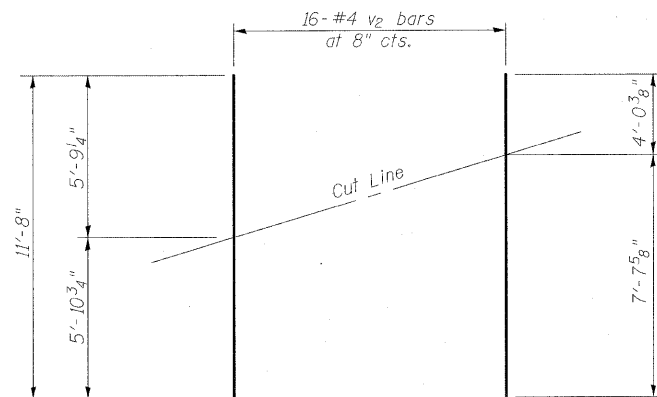


**SHORT WING
SHOWING REINFORCEMENT**



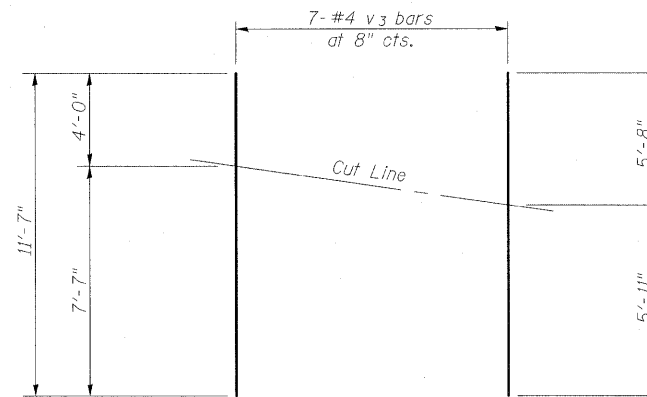
Note - Expansion Bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete

EXPANSION BOLT LAYOUT



**FIELD CUTTING DIAGRAM
(v2 bars)**

**FIELD CUTTING AND
PLACEMENT DIAGRAMS**



**FIELD CUTTING DIAGRAM
(v3 bars)**

Order v2 & v3 bars full length. Cut as shown. Use remainder of bar in opposite end of Wing Wall.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62962-4635
Local-(618) 288-4665
Fax 618-288-4666

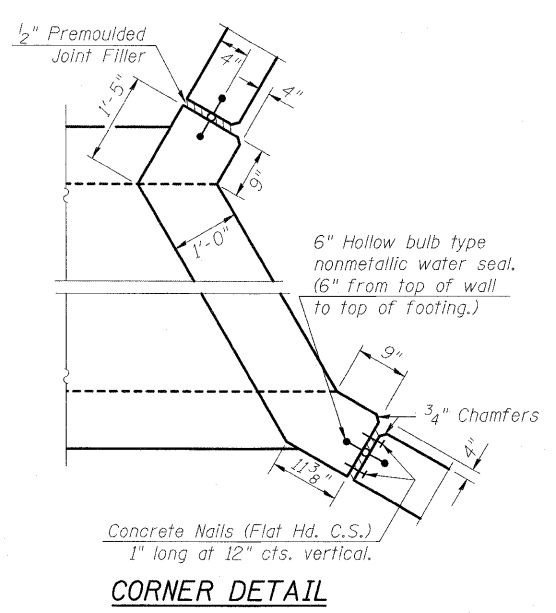
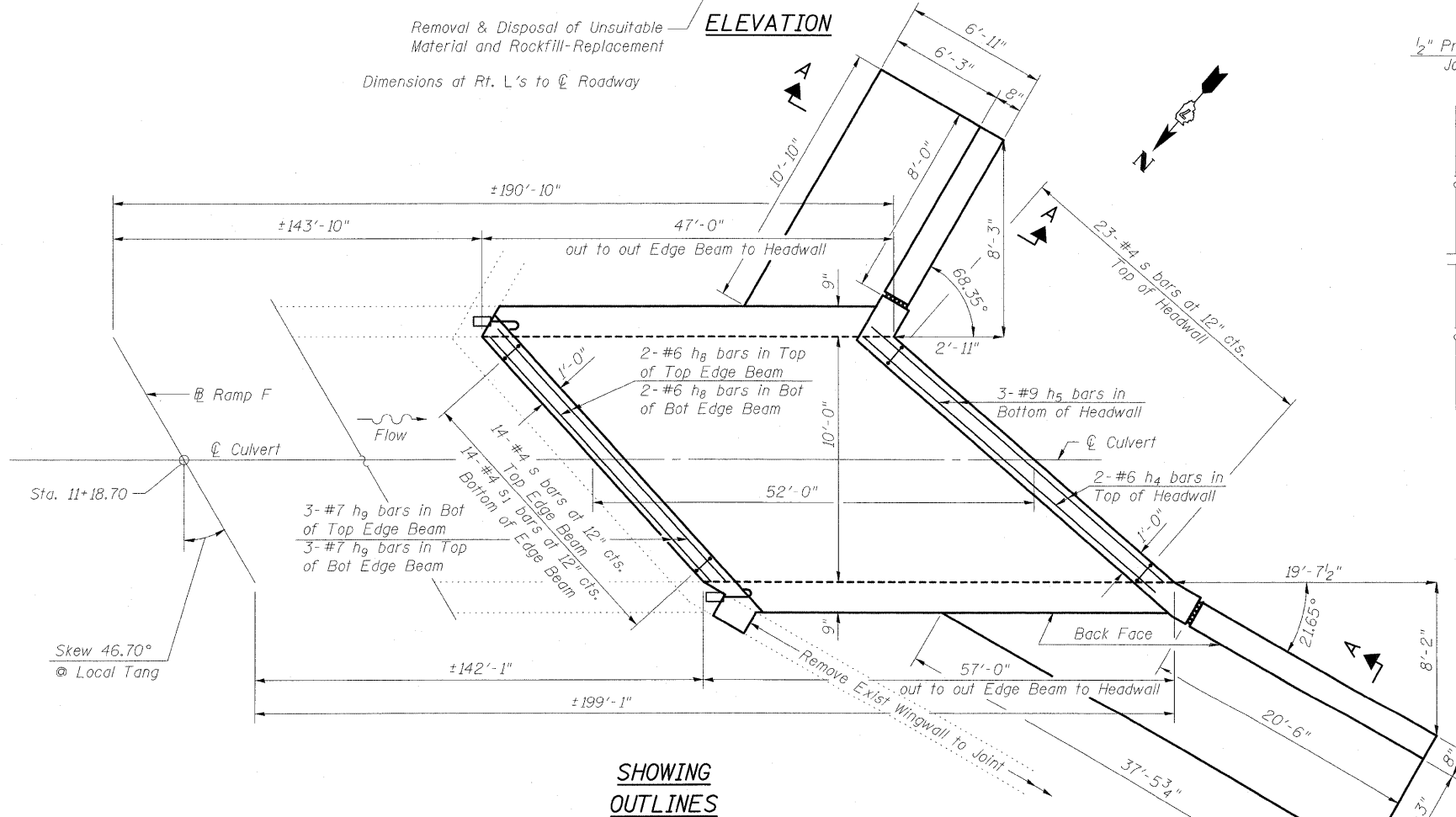
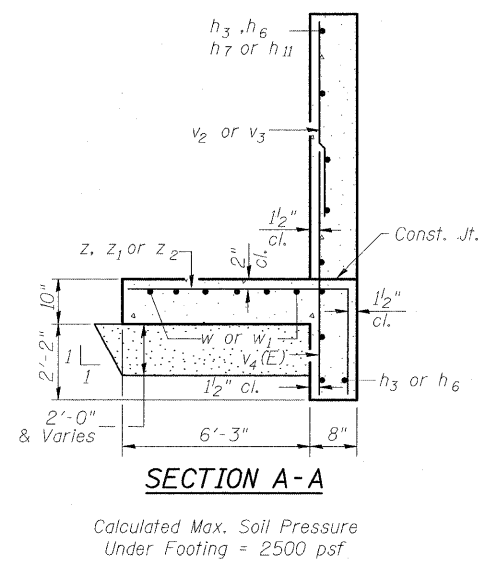
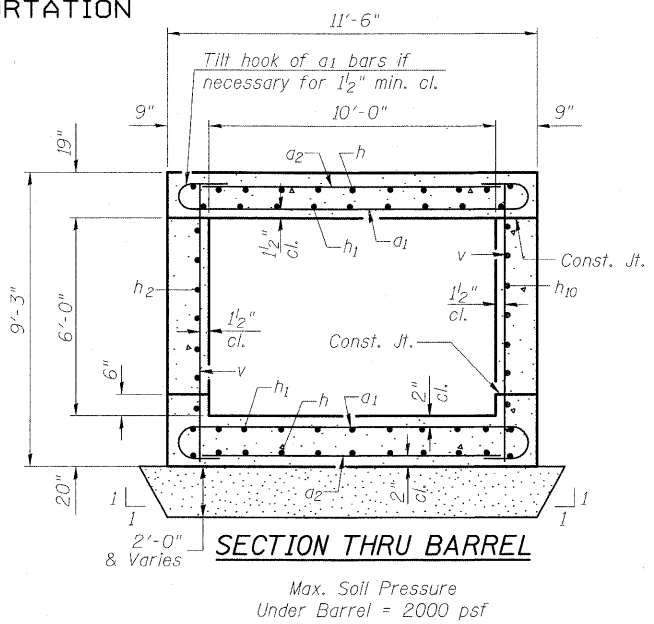
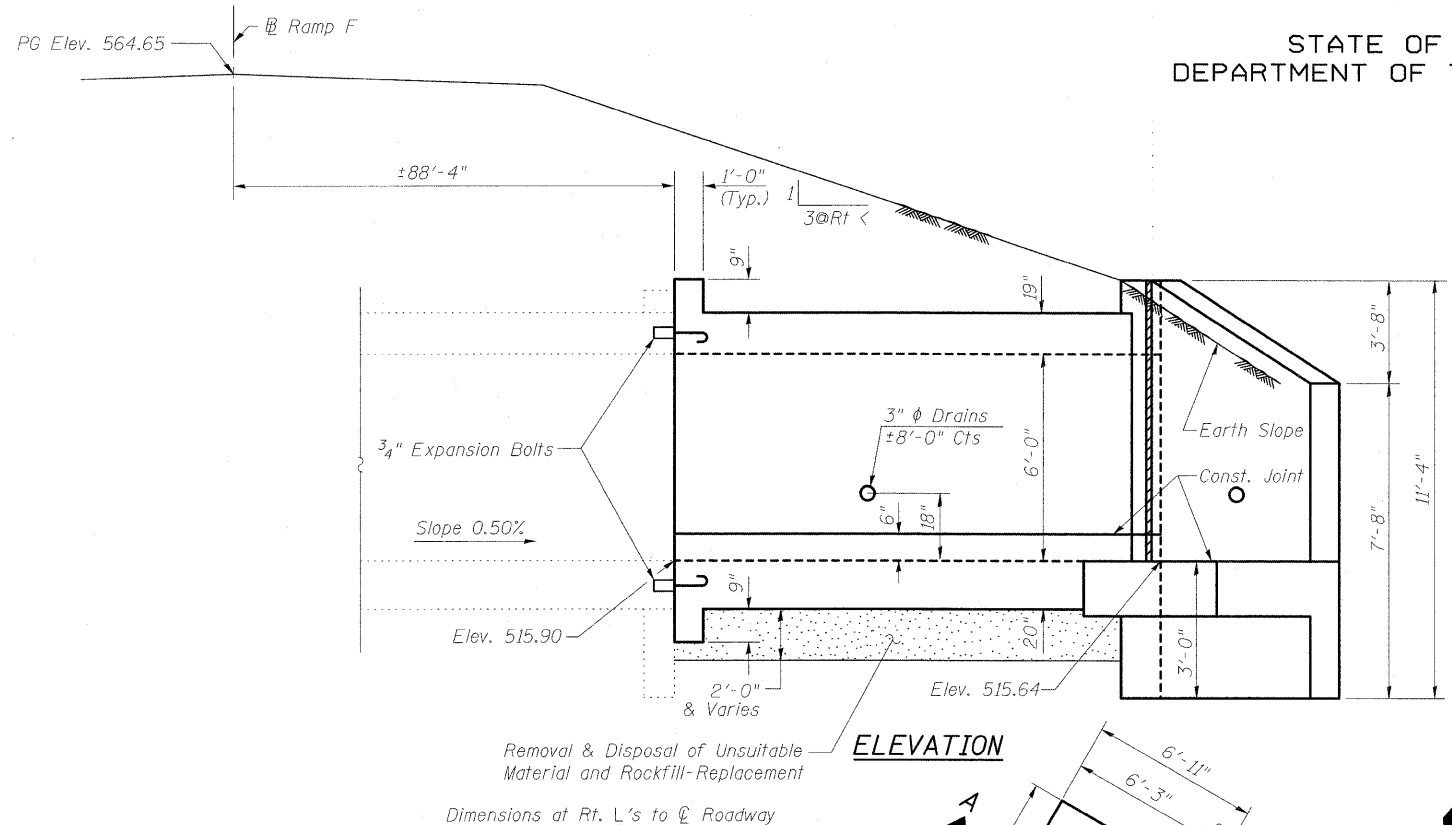
**BOX CULVERT DETAILS
RT STA 11+18.70
RAMP F WB**

DESIGNED -	ACS
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF

Revised Sheet 5/21/10 CJF

SHEET NO. 3 OF 3 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	455
			CONTRACT NO. 74296		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.

Expansion bolts shall be according to Standard Specification Article 1006.10.

The depth of Removal and Replacement of Unsuitable Materials and Rockfill Replacement as shown on the plans is estimated. The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers. The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.

DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
f _y = 40,000 psi	f _y = 60,000 psi
f'c = 3,000 psi	f'c = 3,500 psi

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44 & ALT.

BOX CULVERT DETAILS
LT STA 11+18.70
RAMP F WB

DESIGNED	ACS
CHECKED	CJF
DRAWN	RCB
CHECKED	CJF

Revised Sheet 5/21/10 CJF

CHADWICK J. FUESTING
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS
081-009854
EXP. 11-30-2010
Chadwick J. Fuesting
5/21/2016

Illinois Design Firm Number 184.001670

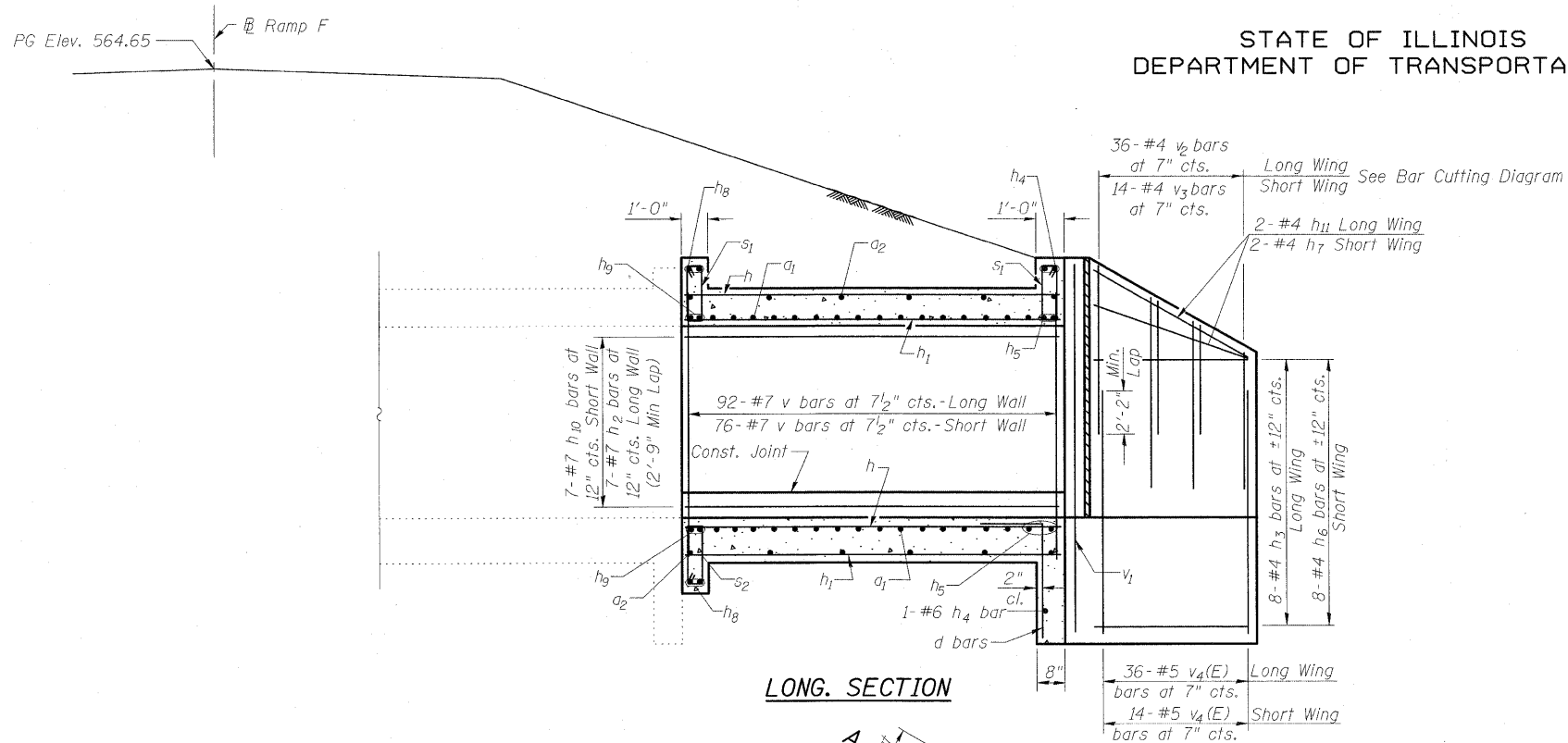
BERNARDIN LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Mareville, IL 62062-5655
Local (618) 288-4665
Fax (618) 288-4665

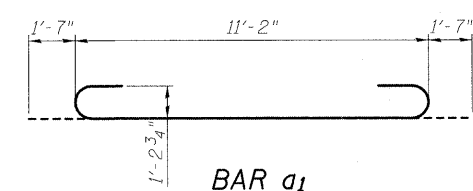
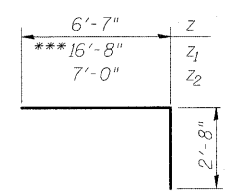
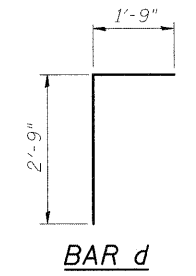
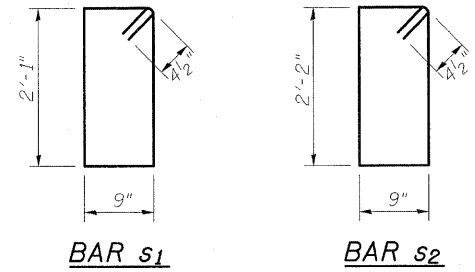
SHEET NO. 1	F.A.I RTE. 57/70	SECTION (25-3)R	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 456
OF 3 SHEETS	CONTRACT NO. 74296		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

1:56:30 PM 5/21/2010 -Culvert RT 11+18.70 sheet.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LONG SECTION



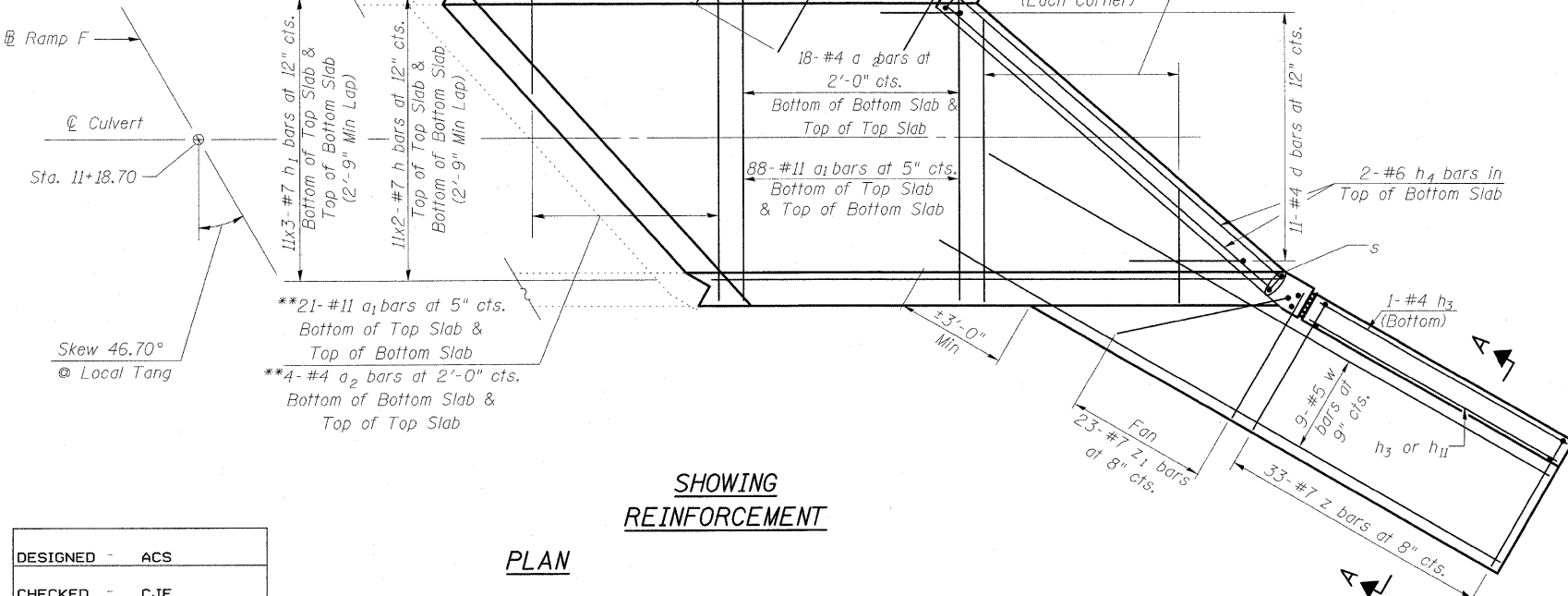
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a1	302	#11	14'-4"	U	
a2	60	#4	11'-2"	U	
d	11	#4	4'-6"	U	
h	44	#7	29'-9"	—	
h1	66	#7	20'-9"	—	
h2	7	#7	56'-8"	—	
h3	8	#4	20'-2"	—	
h4	3	#6	22'-0"	—	
h5	6	#9	22'-0"	—	
h6	8	#4	7'-8"	—	
h7	2	#4	8'-5"	—	
h8	4	#6	13'-7"	—	
h9	6	#7	13'-7"	—	
h10	7	#7	46'-9"	—	
h11	2	#4	20'-5"	—	
s	37	#4	6'-5"	U	
s1	14	#4	6'-7"	U	
v	168	#7	8'-11"	—	
v1	4	#7	11'-0"	—	
v2	18	#4	11'-8"	—	
v3	7	#4	11'-7"	—	
v4(E)	50	#5	6'-0"	—	
w	9	#5	39'-11"	—	
w1	9	#5	13'-7"	—	
z	50	#7	9'-3"	U	
z1	23	#7	19'-4"	U	
z2	4	#7	9'-8"	U	
Concrete Box Culverts				Cu. Yd.	105.8
Reinforcement Bars, Epoxy Coated				Pound	320
Reinforcement Bars				Pound	37350
3/4" Expansion Bolts				Each	24
Concrete Removal				Cu. Yd.	7.2
Removal & Disposal of Unsuitable Material				Cu. Yd.	70
Rockfill-Replacement				Ton	147

*** Longest length required - 16'-8"
Field cut remaining bars to fit

Notes:
Bars indicated thus 11 x 2-#8 etc. indicates 11 lines of bars with 2 lengths per line.
For Section A-A, see Sheet 1 of 3.

** a1 & a2 bars in skew portion of slab shall be ordered full length & cut to fit.



SHOWING REINFORCEMENT
PLAN

DESIGNED - ACS
CHECKED - CJF
DRAWN - RCB
CHECKED - CJF

Revised Sheet 5/21/10 CJF

BOX CULVERT DETAILS
LT STA 11+18.70
RAMP F WB

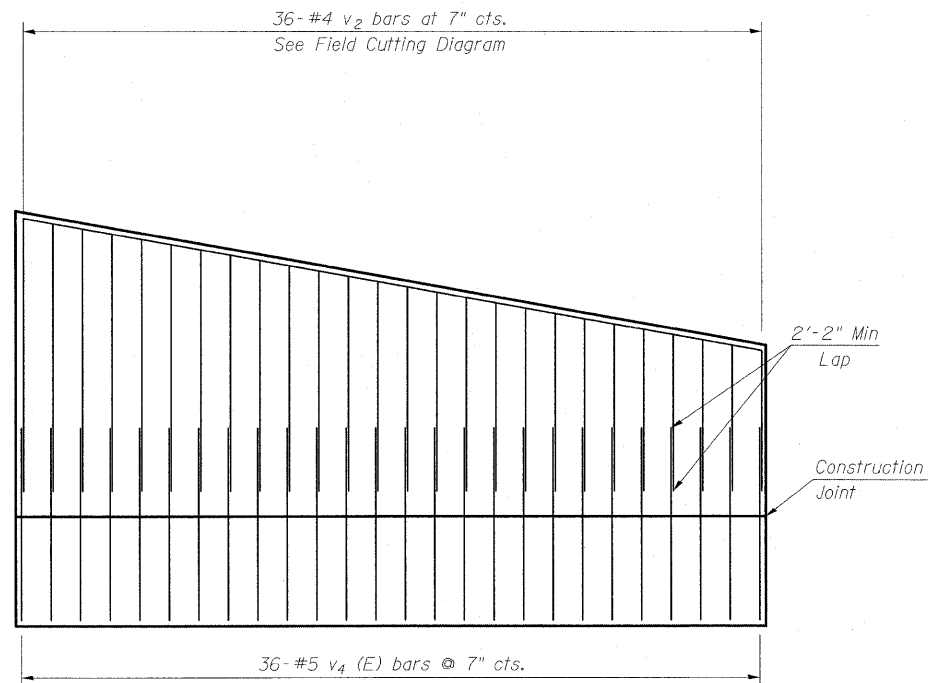


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

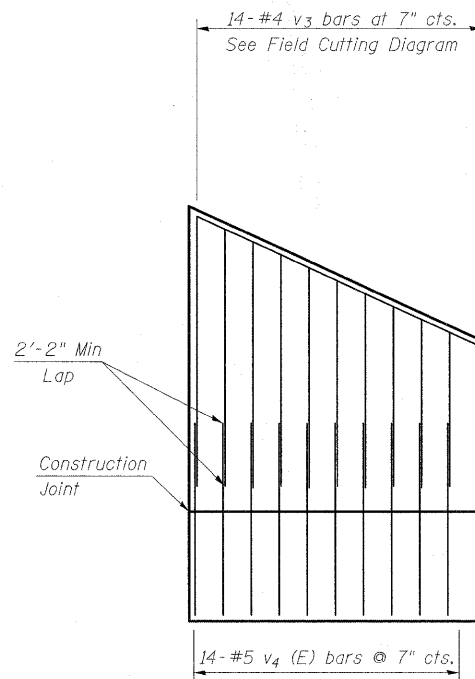
8 Oak Drive
Maryville, IL 62902-6635
Local (618) 288-4995
Fax 618-288-4666

SHEET NO. 2 OF 3 SHEETS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	457
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
				CONTRACT NO. 74296	

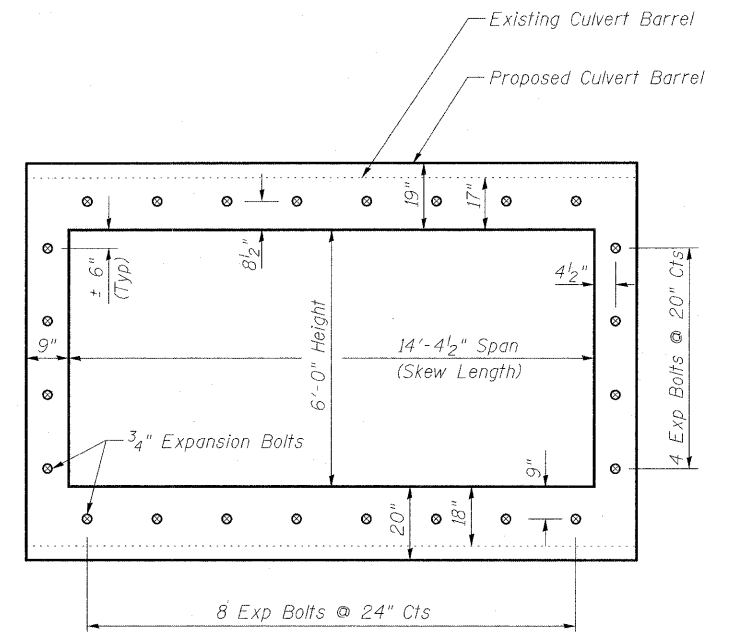
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**LONG WING
SHOWING REINFORCEMENT**

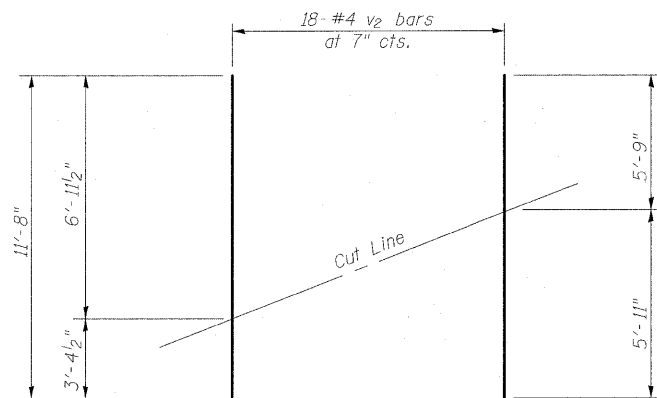


**SHORT WING
SHOWING REINFORCEMENT**

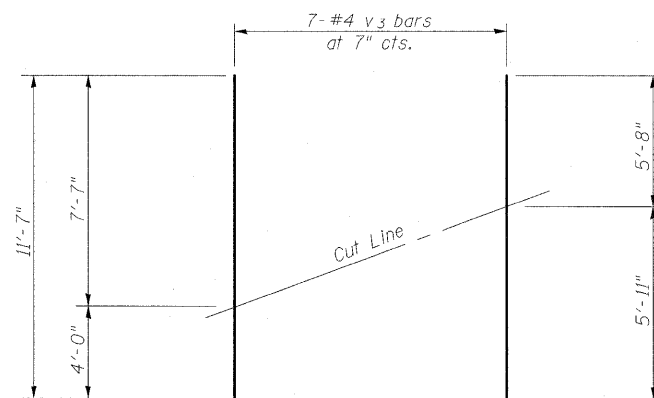


EXPANSION BOLT LAYOUT

**FIELD CUTTING AND
PLACEMENT DIAGRAMS**



**FIELD CUTTING DIAGRAM
(v2 bars)**



**FIELD CUTTING DIAGRAM
(v3 bars)**

Order v2 & v3 bars full length. Cut as shown. Use remainder of bar in opposite end of Wing Wall.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62962-6685
Local (618) 398-4655
Fax 618-298-4666

**BOX CULVERT DETAILS
LT STA 11+18.70
RAMP F WB**

DESIGNED	- ACS
CHECKED	- CJF
DRAWN	- RCB
CHECKED	- CJF

Revised Sheet 5/21/10 CJF

SHEET NO. 3 OF 3 SHEETS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	458
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 74296					

Bench Mark: Chiseled square on west concrete base of overhead sign on I-57 - I-70 "South Memphis, West St. Louis" Station 2078+07. Elevation 581.46, 86.8ft LT.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure: #025-2017 carries F.A.I. 70 WB Roadway B over Frontage Road 1354 previously Frontage Road 1355. The structure was constructed in 1960 as a cast in place concrete 16'-0" x 14'-0" single cell culvert subway with 67'-9" out to out headwalls. Traffic is to be maintained at all times on 57/70. FR 1354 is to be closed during construction.

No salvage.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 GR 60. See special provisions.

Removal of the existing wings during construction shall be completed according to section 501.05 of the standard spec.

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.

Expansion bolts shall be according to standard specifications article 1006.10. Precast concrete culvert alternative will not be allowed at this site.

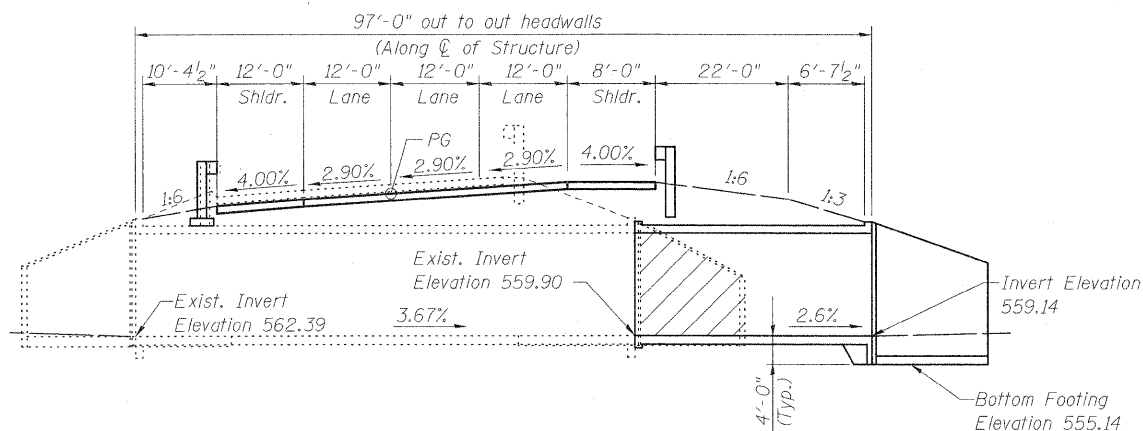
For the culvert extension, the outside surface of the walls, top, slab, and back of wingwalls below grade shall be waterproofed according to Article 503.18 of the Standard Specifications. Cost of waterproofing shall be included in the cost of "Concrete Box Culverts".

The final finish on the Culvert Extension bottom slabs shall be Type A according to Article 420.09 of the Standard Spec.

Epoxy Crack Injection shall be according to the Standard Specifications Section 590. Concrete Sealer shall be applied to the inside faces of the new & existing box culverts & the faces of the exposed wingwall.

For maintenance of traffic and Stage Construction Layout See Roadway Plans. Reinforcement bars designated (E) shall be epoxy coated.

Porous Granular Embankment (Special) needs to be crushed stone, Gradation CA7 or CA11.



STATION 2073+18.78
REBUILT 200_ BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. (25-3)BY
LOADING HS-20-44 & ALT.
STR. NO 025-2017

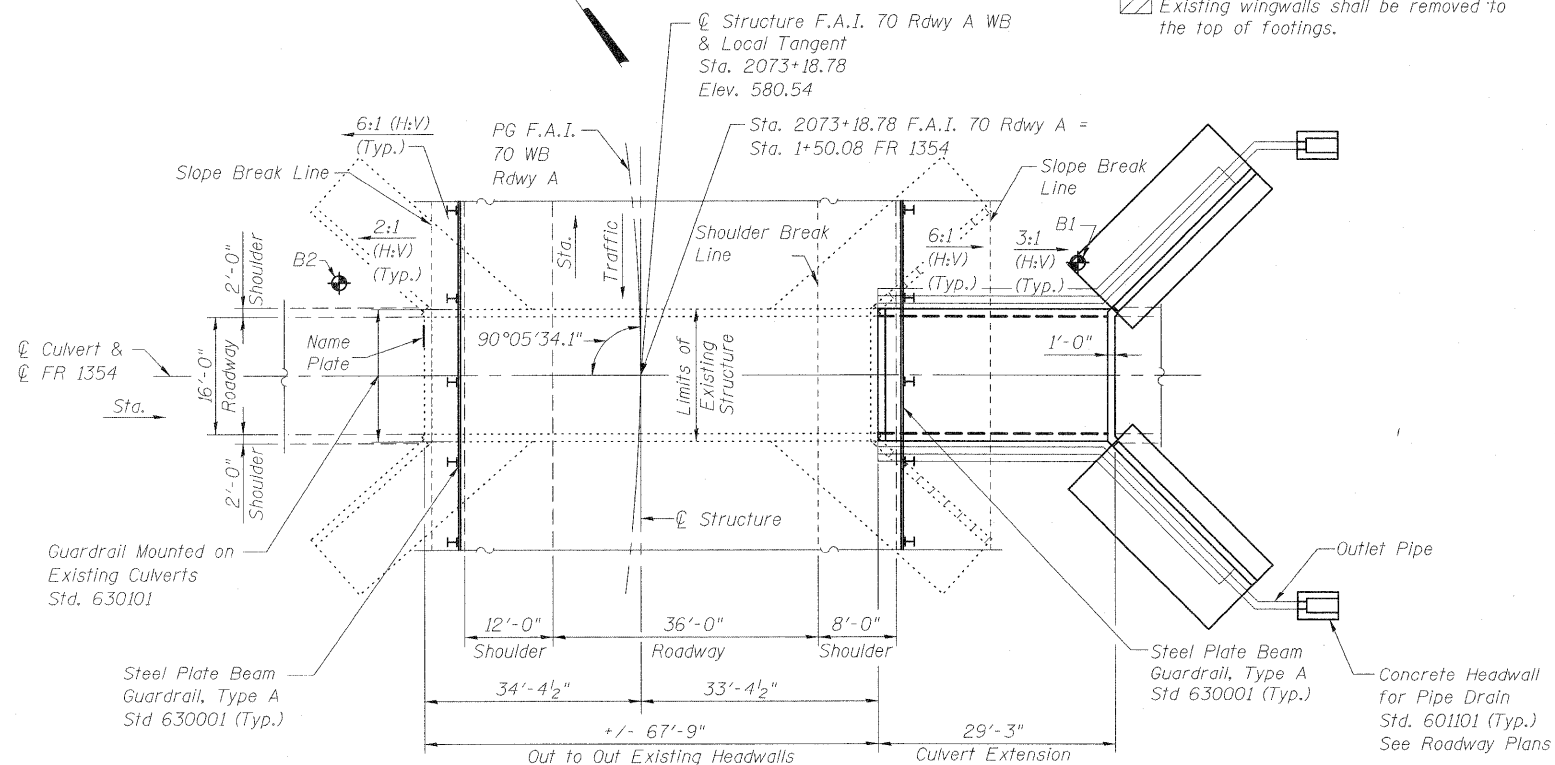
NAME PLATE
(See Std. 515001)

INDEX OF SHEETS

1. General Plan
2. Stage Construction Details
3. Concrete Removal & Expansion Bolt Details
4. Drainage Details
5. Culvert Details
6. East Extension Wing Walls
7. Existing Culvert Repair Details
8. Soil Borings

LONGITUDINAL SECTION
(Looking North)

Indicates Concrete Removal.
Existing wingwalls shall be removed to the top of footings.



PLAN

BOX FLOOR LOADING H15-44

LOADING OVER BOX
HS20-44 & ALT.
No Future Wearing Surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

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

Existing Structure
f'c = 3,500 psi (Top Slab & Bottom Slab)
f'c = 2,500 psi (Side Walls & Footings)
fy = 40,000 psi (Reinforcement)

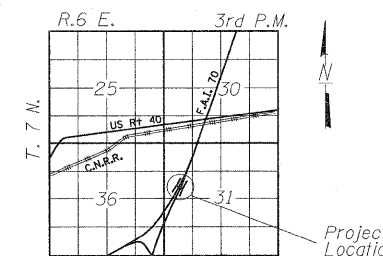
Illinois Design Firm Number 184.001670

BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62052-5635
Local (618) 288-4665
Fax 618-288-4666

TOTAL BILL OF MATERIAL

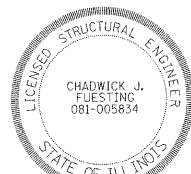
ITEM	UNIT	TOTAL
Geocomposite Wall Drain	Sq. Yd.	170.2
Pipe Underdrains for Structures, 4"	Foot	110
Porous Granular Embankment (Special)	Cu. Yd.	234
Expansion Bolts 3/4"	Each	34
Concrete Box Culverts	Cu. Yd.	172.5
Reinforcement Bars, Epoxy Coated	Pound	29,800
Name Plates	Each	1
Concrete Removal	Cu. Yd.	23.8
Epoxy Crack Injection	Foot	32
Concrete Sealer	Sq. Ft.	798
Porous Granular Embankment	Cu. Yd.	29
Removal and Disposal of Unsuitable Material	Cu. Yd.	29



LOCATION SKETCH

GENERAL PLAN
WESTBOUND F.A.I. ROUTE 70
ROADWAY A.W.B.
OVER FRONTAGE ROAD 1354
STATION 2073+18.78
STRUCTURE NO. 025-2017

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



EXP. 11-30-2010

Chadwick J. Fuesting 3/16/10

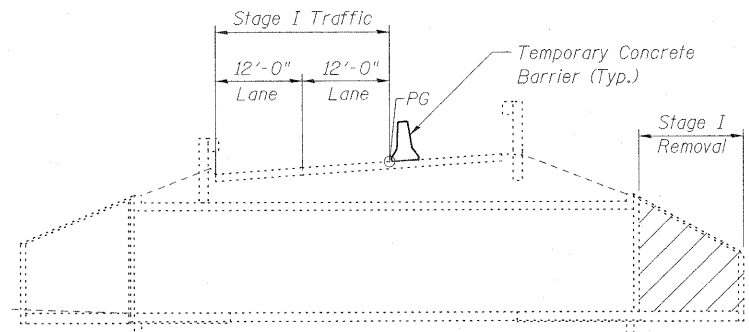
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES



SHEET NO. 1	F.A.I. RTE. 70	SECTION (25-3)BY	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 459
8 SHEETS	SN 025-2017		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

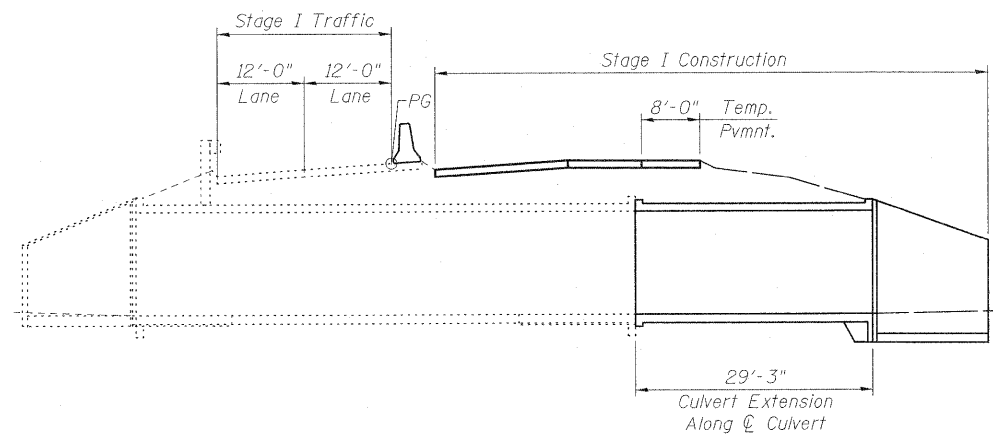
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



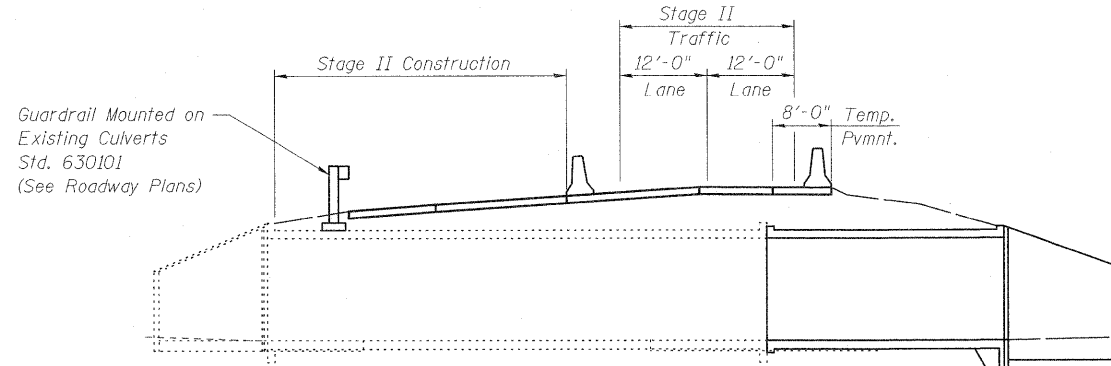
STAGE I REMOVAL

Indicates Concrete Removal

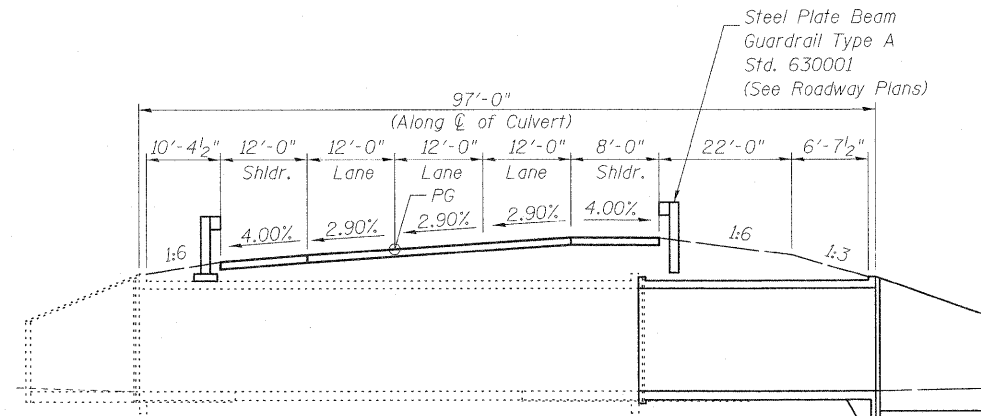
Note: All dimensions are radial to 57/70 unless otherwise noted.
All Cross-Sections Looking North.
For quantity of concrete barrier see Roadway Plans.



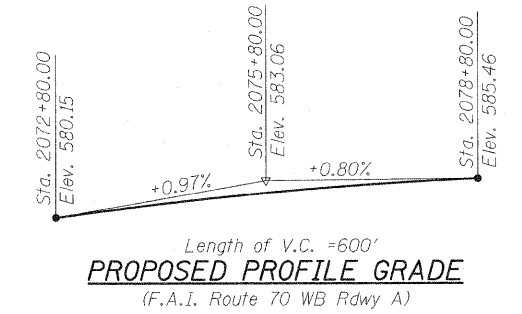
STAGE I CONSTRUCTION



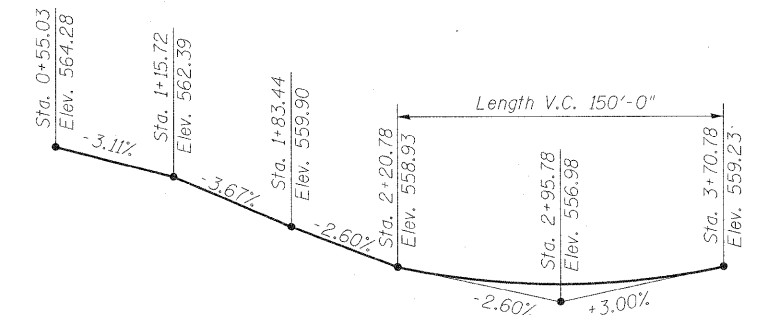
STAGE II CONSTRUCTION



FINAL CONFIGURATION



PROPOSED PROFILE GRADE
(F.A.I. Route 70 WB Rdwy A)



PROPOSED PROFILE GRADE
(Frontage Road 1354)

PROPOSED HORIZONTAL CURVE DATA FR 1354

P.I. Sta. 3+40.85 FR 1354
Δ = 9° 14' 24"
D = 8° 00' 17"
R = 715.78'
T = 57.84'
L = 115.43'
E = 2.33'
P.C. Sta. = 2+83.01
P.T. Sta. = 3+98.44

PROPOSED HORIZONTAL CURVE DATA

P.I. Sta. 2059+30.08 F.A.I. 70 (Rdwy A)
Δ = 55°59'40" (LT)
D = 0°50'35"
R = 6,796.00'
T = 3,613.08'
L = 6,641.65'
E = 900.75'
P.C. Sta. = 2023+17.00
P.T. Sta. = 2090+01.65

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 025-2017**

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

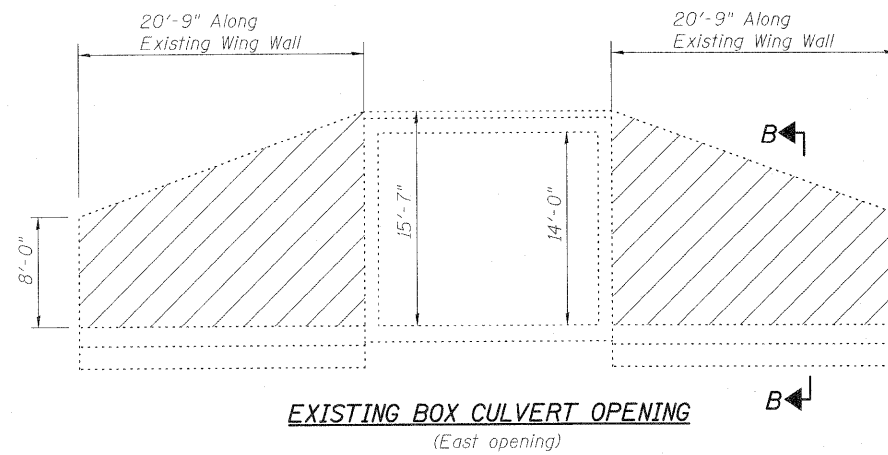


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

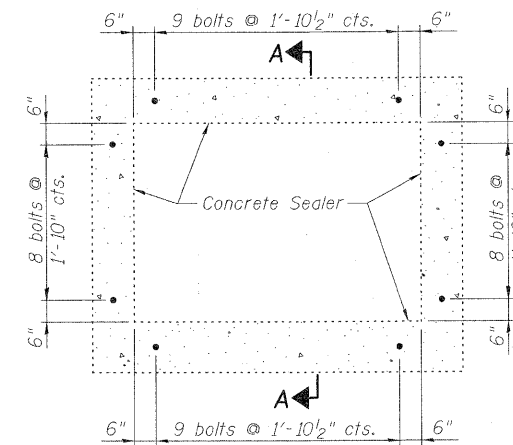
3 Oak Drive
Maryville, IL 62462-5635
Local (618) 283-4666
Fax 618-283-4666

SHEET NO. 2 8 SHEETS	F.A.I. RTE. 70	SECTION (25-3)BY	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 460
	SN 025-2017		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

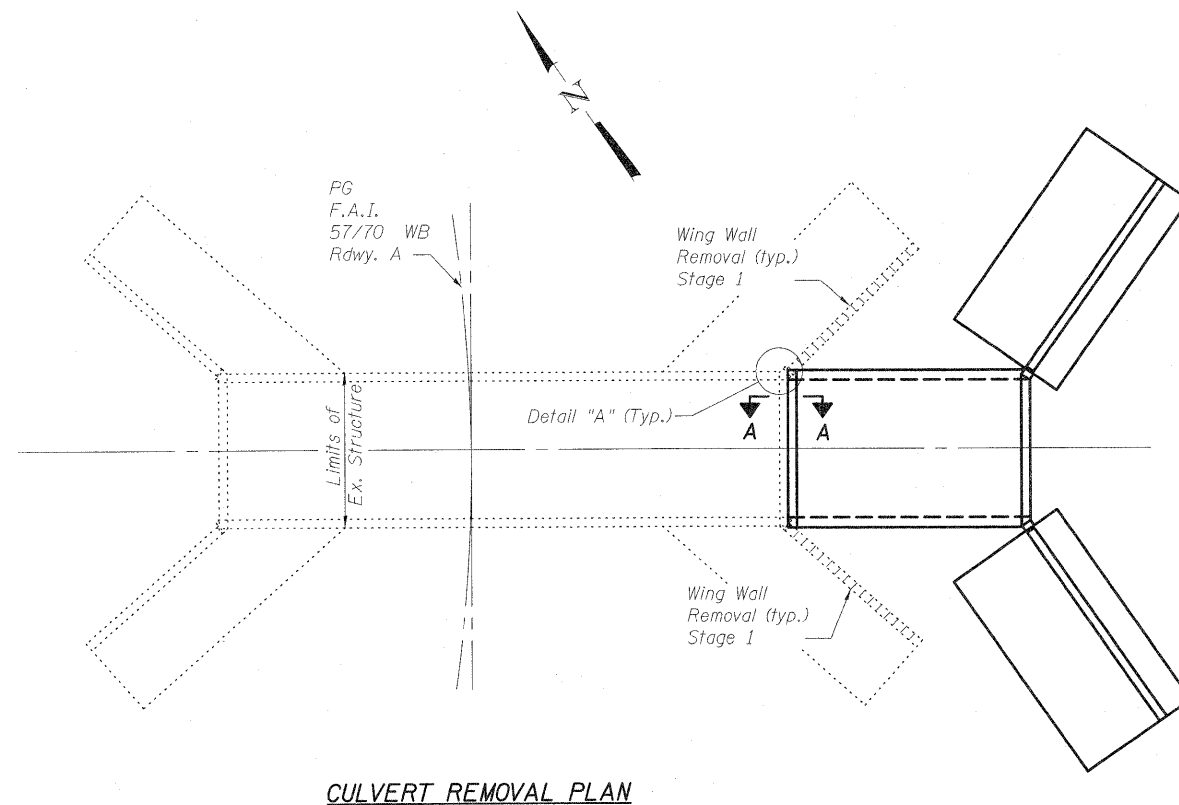
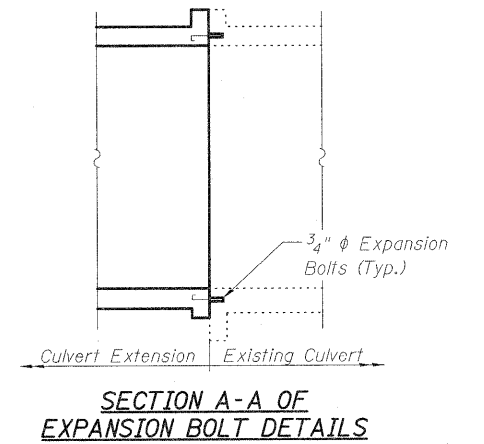


Indicates Concrete Removal.
 Existing wingwalls shall be removed to the top of footings. Removal of existing wingwall shall be paid for as Concrete Removal.

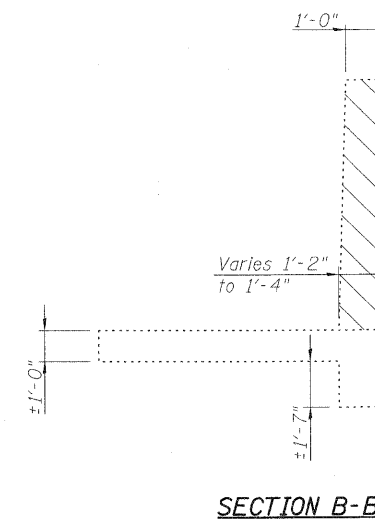


EXPANSION BOLT INSTALLATION FOR CULVERT EXTENSIONS

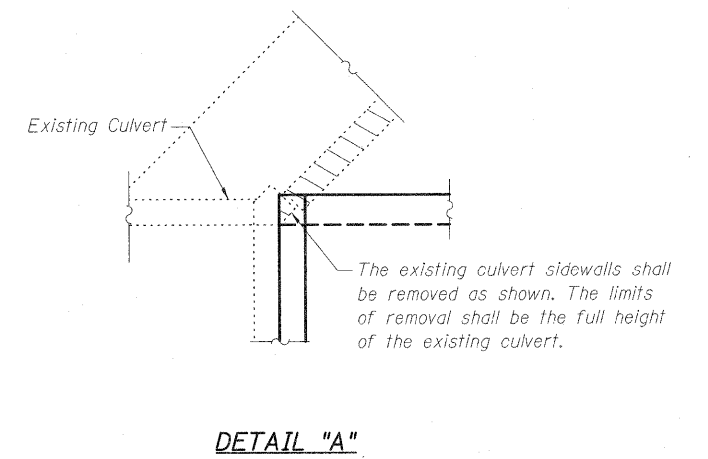
(Expansion bolts shall be $\frac{3}{4}$ " ϕ hooked bolts. The hooked bolts shall extend 9" into the new concrete)



CULVERT REMOVAL PLAN



SECTION B-B



DETAIL "A"

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	23.8
Expansion Bolts $\frac{3}{4}$ "	Each	34

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

**CONCRETE REMOVAL & EXPANSION BOLT DETAILS
STRUCTURE NO. 025-2017**

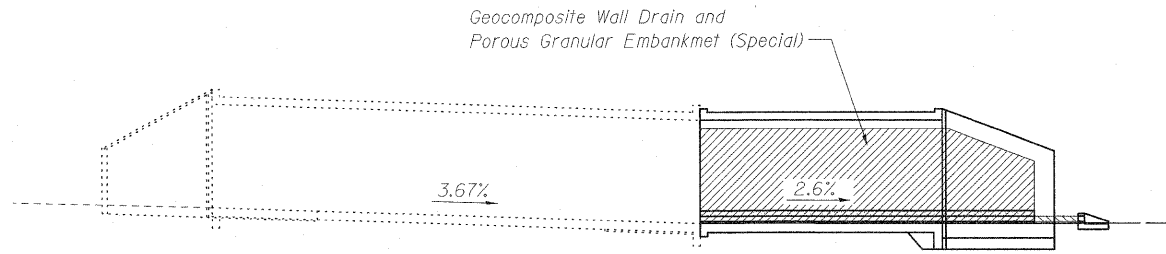
SHEET NO. 3 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)BY	EFFINGHAM	1416	461
SN 025-2017			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



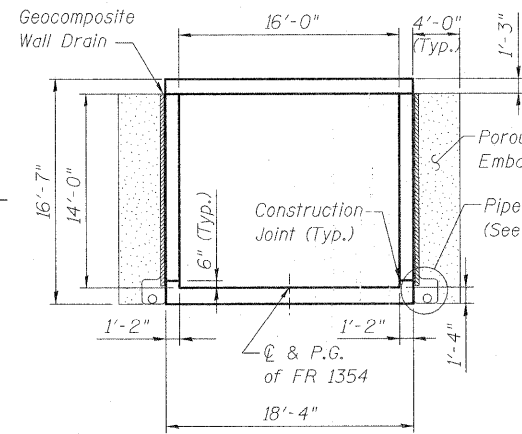
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4965
Fax 618-288-4966

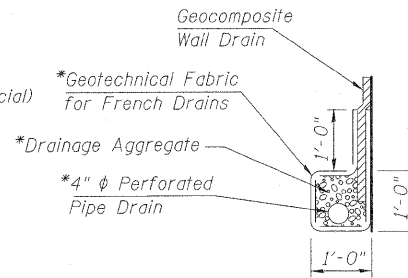
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DRAINAGE ELEVATION

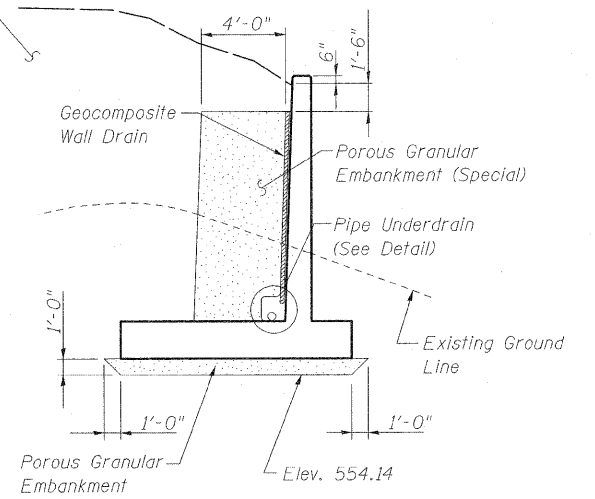


SECTION THRU BARREL

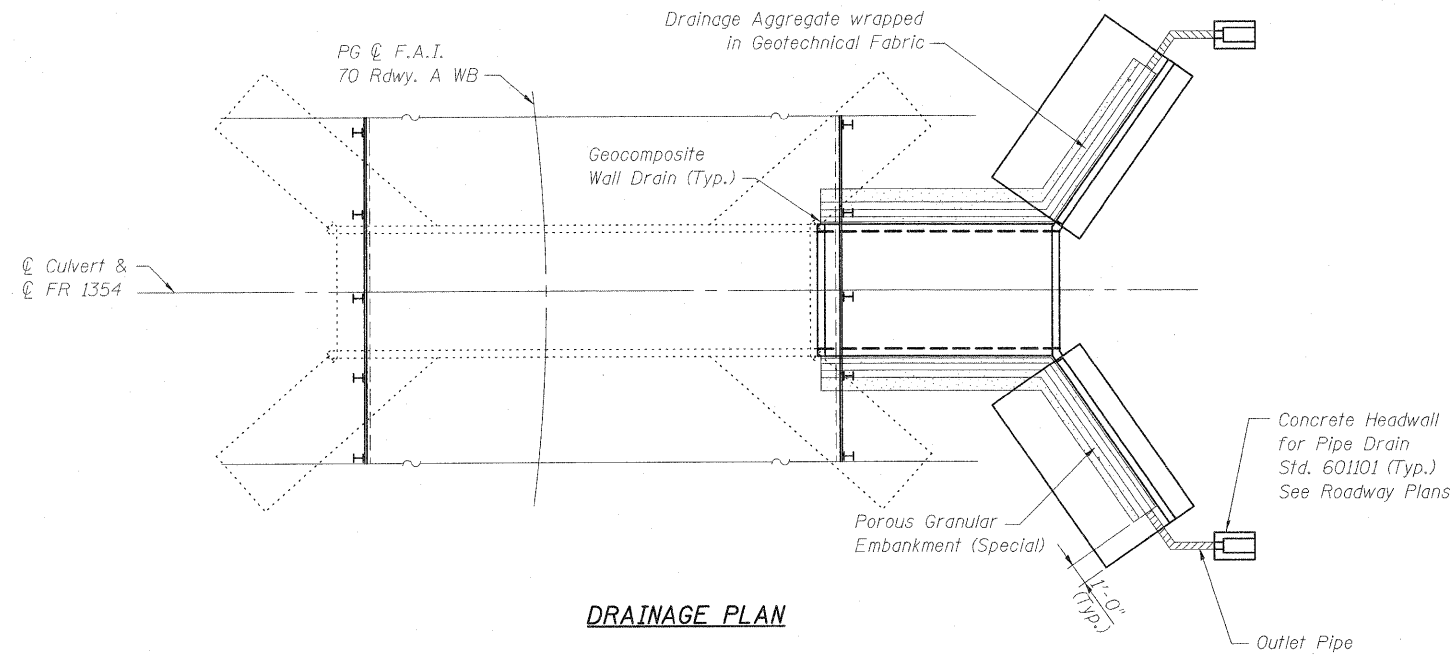


PIPE UNDERDRAIN DETAIL

*Included in the cost of "Pipe Underdrain for Structures".



SECTION THRU WINGWALL



DRAINAGE PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Geocomposite Wall Drain	Sq. Yd.	170.2
Pipe Underdrains for Structures, 4"	Foot	110
Porous Granular Embankment (Special)	Cu. Yd.	234
Porous Granular Embankment	Cu. Yd.	29
Removal and Disposal of Unsuitable Materials	Cu. Yd.	29

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

Note:
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

Notes:
A Geocomposite Wall Drain shall be installed on the fill faces of the culvert extension walls and wings and draped under the approximate 1'-0" x 1'-0" block of wrapped drainage aggregate.
A 4" diameter perforated drain shall be situated within an approximate 1'-0" x 1'-0" block of drainage aggregate shall be wrapped completely in Geotechnical Fabric for French Drains. Extend perforated drain and wrapped drainage aggregate past wings parallel to & tunnel to intersection with fill slope at the low end of tunnel. Pipes shall drain onto concrete headwalls (Article 601.05 of the Std. Specifications and Highway Std. 601101).
Cost of perforated drain pipes, outlet pipe concrete headwalls, drainage aggregate, and geotechnical fabric shall be included with the pay item Pipe Underdrain for Structures. Per GBSP 51.

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

**DRAINAGE DETAILS
STRUCTURE NO. 025-2017**

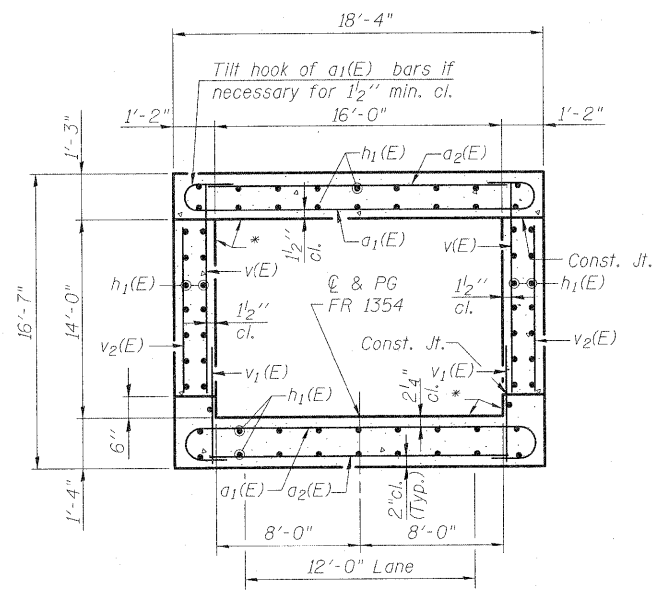
SHEET NO. 4 8 SHEETS	F.A.I. RTE. 70	SECTION (25-3)BY	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 462
	SN 025-2017		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4665
Fax 618-288-4666

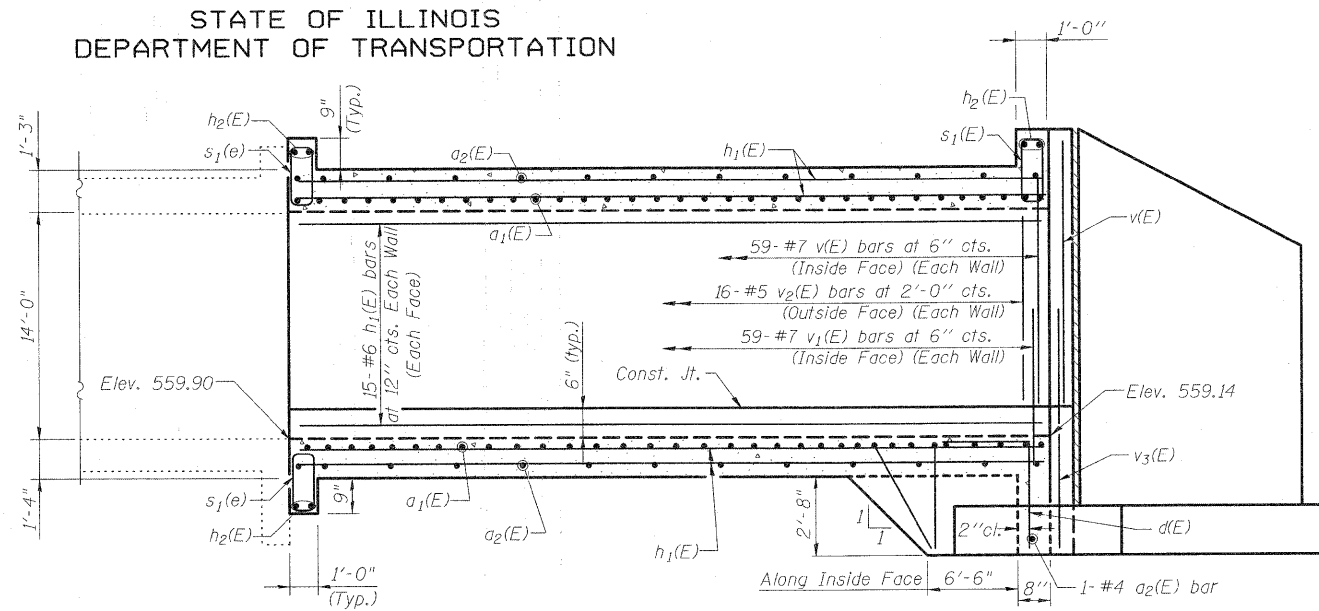
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



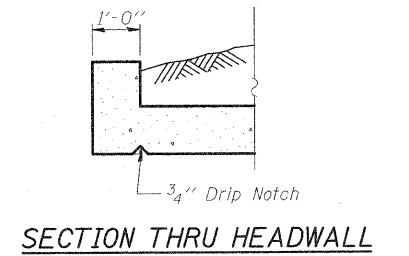
SECTION THRU BARREL EXTENSION

(Looking Upstation)

* Apply Concrete Sealer

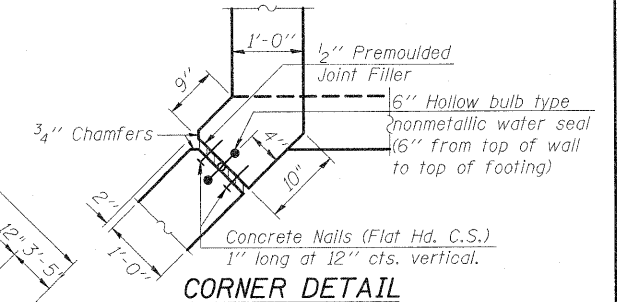


SECTION

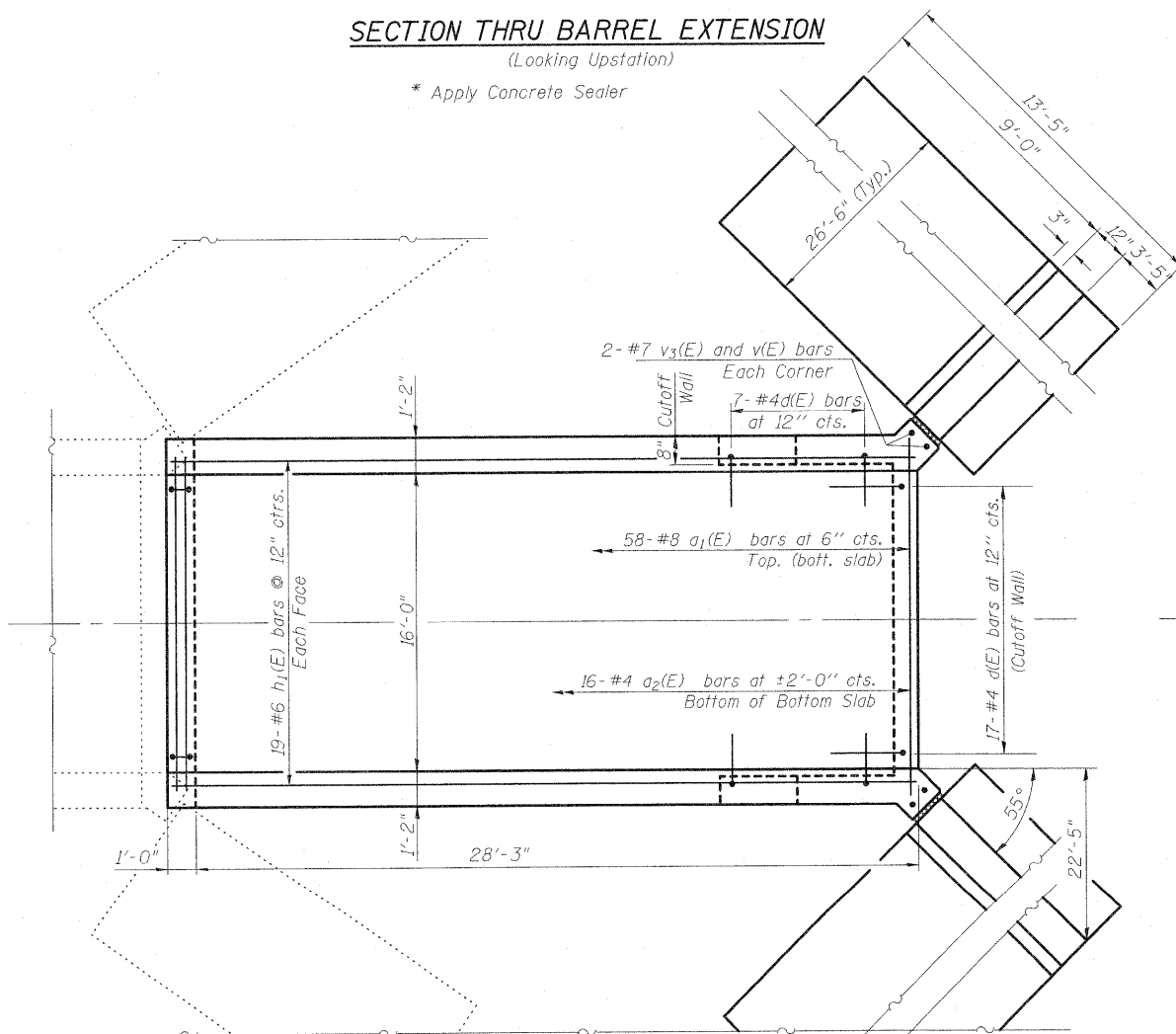


SECTION THRU HEADWALL

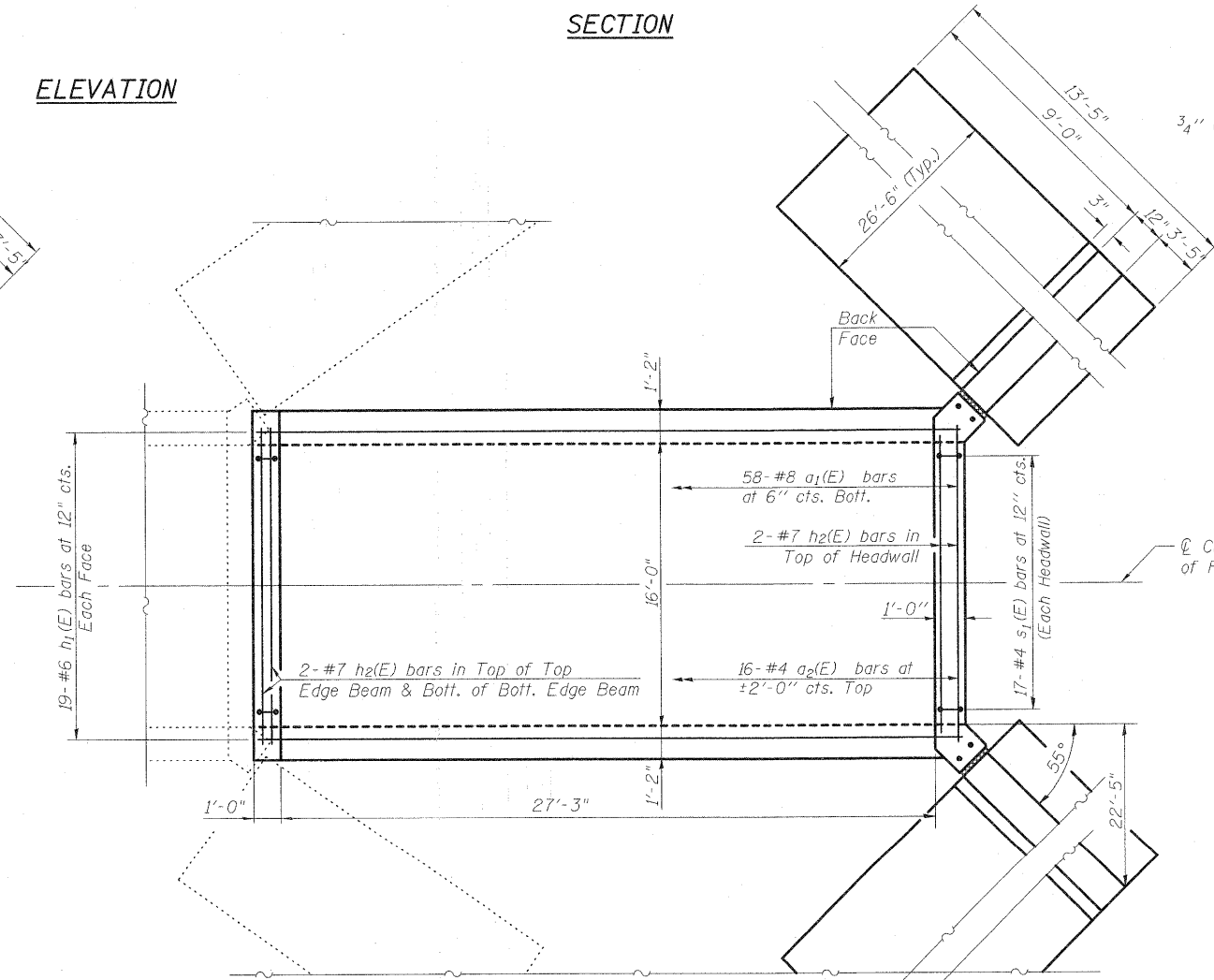
ELEVATION



CORNER DETAIL



BOTTOM SLAB



TOP SLAB

PLAN

**CULVERT DETAILS
STRUCTURE NO. 025-2017**

Notes:
See Sheets 6 of 8 for
Wingwall Layout and Reinforcement.
For Bill of Materials see Sheet 6 of 8.

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

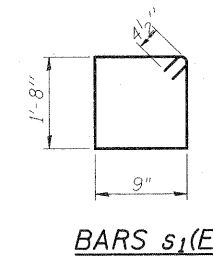
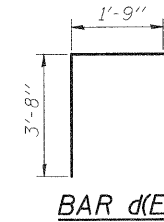
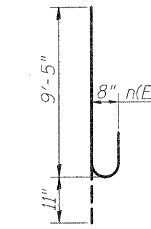
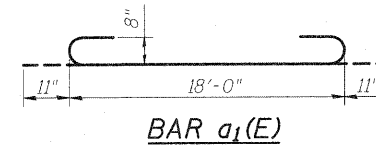
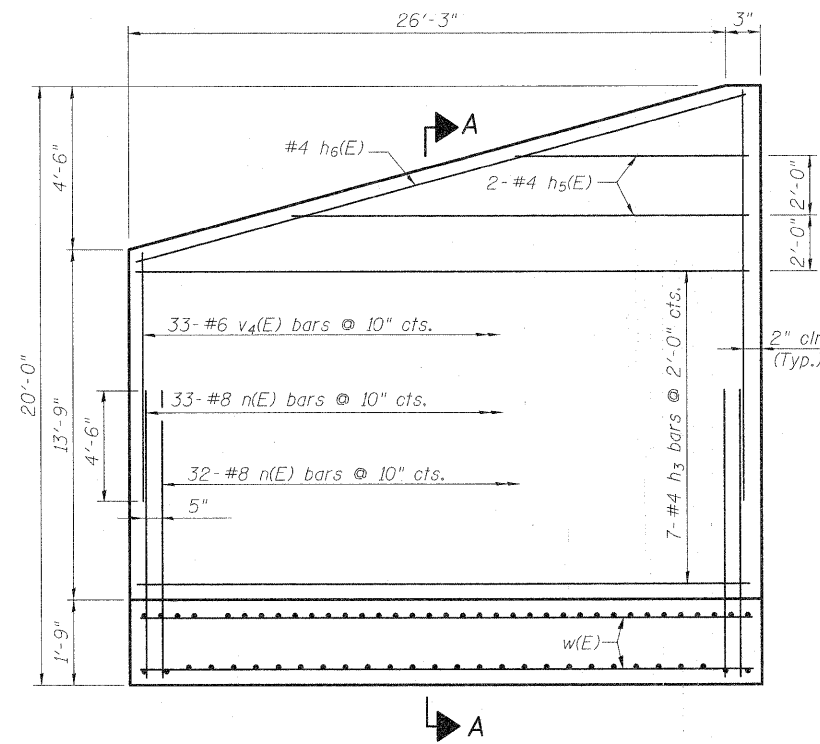
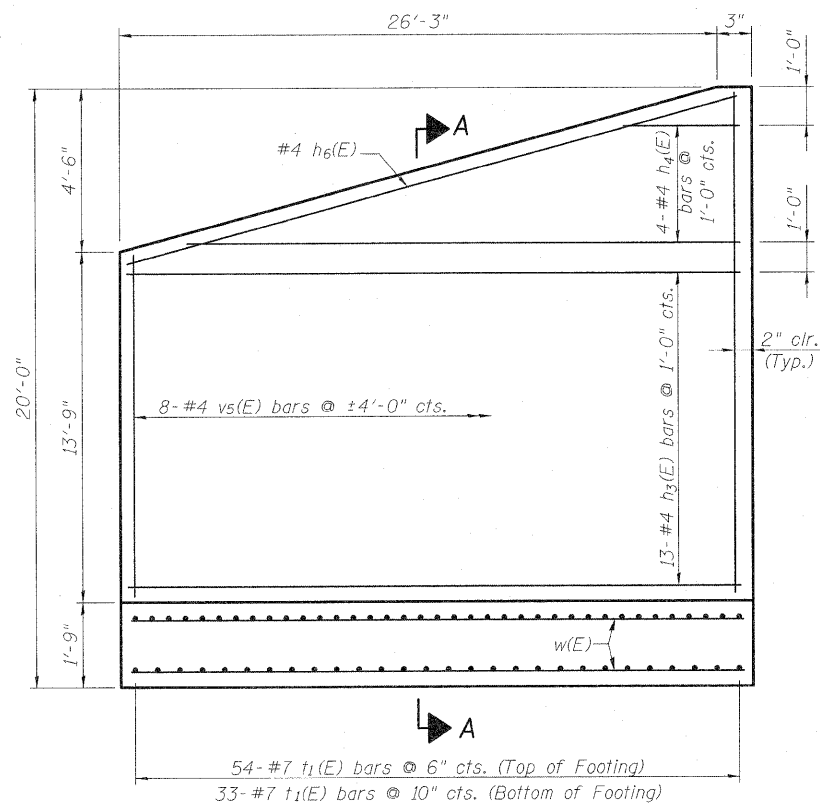
3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4666
Fax 618-288-4666

SHEET NO. 5 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)BY	EFFINGHAM	1416	463
SN 025-2017			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIAL

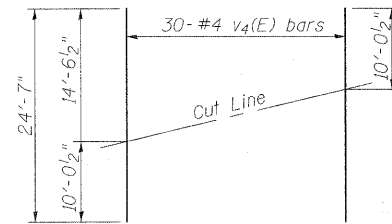
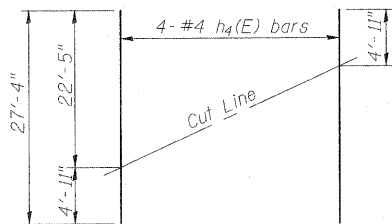
Bar	No.	Size	Length	Shape
a ₁ (E)	116	#8	19'-10"	
a ₂ (E)	33	#4	18'-0"	
d(E)	31	#4	5'-5"	
h ₁ (E)	136	#6	28'-11"	
h ₂ (E)	6	#7	18'-0"	
h ₃ (E)	40	#4	26'-2"	
h ₄ (E)	4	#4	27'-4"	
h ₅ (E)	2	#4	32'-0"	
h ₆ (E)	4	#4	26'-6"	
n(E)	130	#8	10'-4"	
s ₁ (E)	51	#4	5'-7"	
t ₁ (E)	174	#7	13'-1"	
v(E)	122	#7	14'-7"	
v ₁ (E)	118	#7	4'-5"	
v ₂ (E)	32	#5	13'-4"	
v ₃ (E)	4	#7	8'-0"	
v ₄ (E)	33	#6	24'-8"	
v ₅ (E)	8	#4	31'-8"	
w(E)	40	#5	26'-2"	
Concrete Box Culverts			Cu. Yd.	172.5
Reinforcement Bars, Epoxy Coated			Pound	29,800
Concrete Sealer			Sq. Yd.	798



FRONT FACE

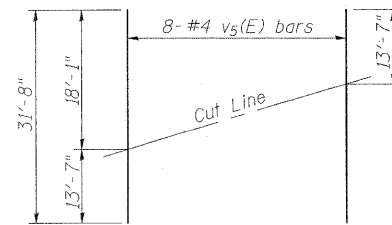
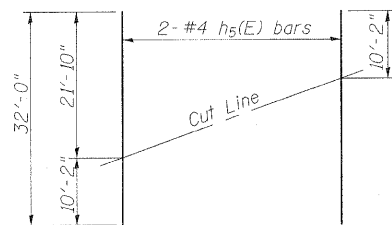
BACK FACE

EAST WINGWALL REINFORCEMENT



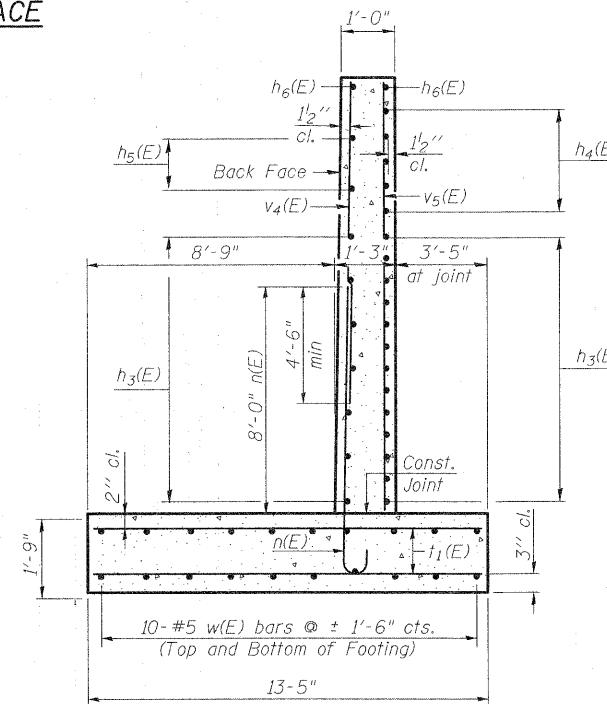
FIELD CUTTING DIAGRAM
(h₄(E) bars Front Face)

FIELD CUTTING DIAGRAM
(v₄(E) bars Back Face)



FIELD CUTTING DIAGRAM
(h₅(E) bars Back Face)

FIELD CUTTING DIAGRAM
(v₅(E) bars Front Face)



SECTION A-A

EAST EXTENSION WING WALLS
STRUCTURE NO. 025-2017

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

Order bars full length. Cut as shown and use remainder of bars in opposite wing.

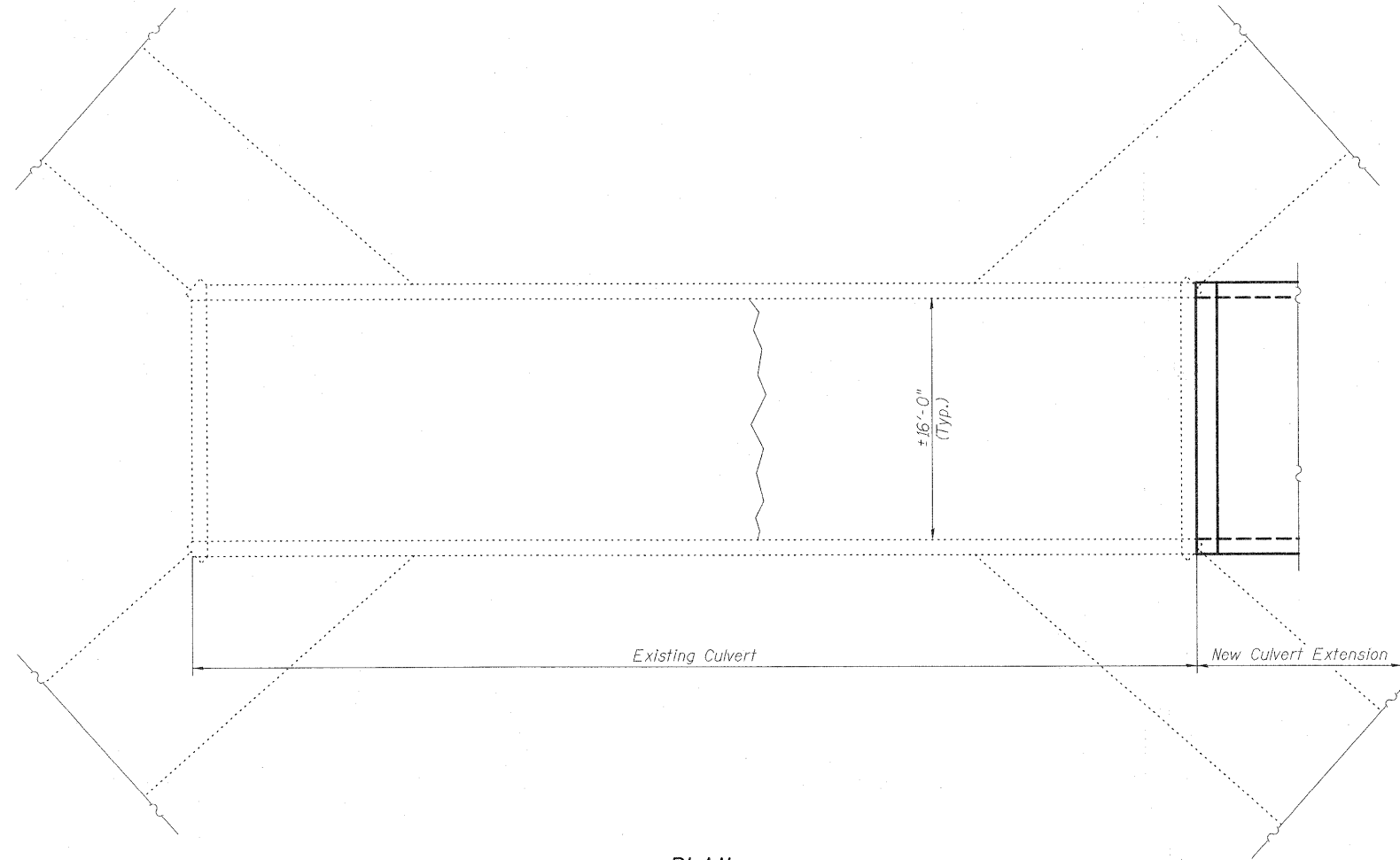


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62963-6635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 6 8 SHEETS	F.A.I. RTE. 70	SECTION (25-3)BY	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 464
	SN 025-2017		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN
(Bottom of Top Slab)

~~~~~ Indicates Epoxy Crack Injection Required.

Note:  
The limits of Epoxy Crack Injection shown are approximate. The limits of Crack Injection may vary in the field. Changes in the quantity of Epoxy Crack Injection shall be approved by the Engineer.

**BILL OF MATERIAL**

| ITEM                  | UNIT | TOTAL |
|-----------------------|------|-------|
| Epoxy Crack Injection | Foot | 32    |
|                       |      |       |

**EXISTING CULVERT  
REPAIR DETAILS  
STRUCTURE NO. 025-2017**

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | W.J.S.        |
| CHECKED  | C.J.F. & B.B. |



**BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.**

3 Oak Drive  
Maryville, IL 62062-5635  
Local (618) 288-4505  
Fax 618-288-4666

|                                                     |             |          |                    |              |           |
|-----------------------------------------------------|-------------|----------|--------------------|--------------|-----------|
| SHEET NO. 7<br><br>8 SHEETS                         | F.A.I. RTE. | SECTION  | COUNTY             | TOTAL SHEETS | SHEET NO. |
|                                                     | 70          | (25-3)BY | EFFINGHAM          | 1416         | 465       |
| SN 025-2017                                         |             |          | CONTRACT NO. 74296 |              |           |
| FED. ROAD DIST. NO. 7   ILLINOIS   FED. AID PROJECT |             |          |                    |              |           |





Bench Mark: Chiseled square on west concrete base of overhead sign on I-57 - I-70 "South Memphis, West St. Louis" Station 2078+07. Elevation 581.46, 86.8ft LT.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure: #025-2018 carries FAI 70 EB RDWY B over Frontage Road 1354 previously Frontage Road 1355. The Structure was constructed in 1960 as a cast in place concrete 16'-0" x 14'-0" single cell culvert subway with 66'-3" out to out headwalls. Traffic is to be maintained at all times on 57/70. FR 1354 is to be closed during construction.

No salvage.

GENERAL NOTES

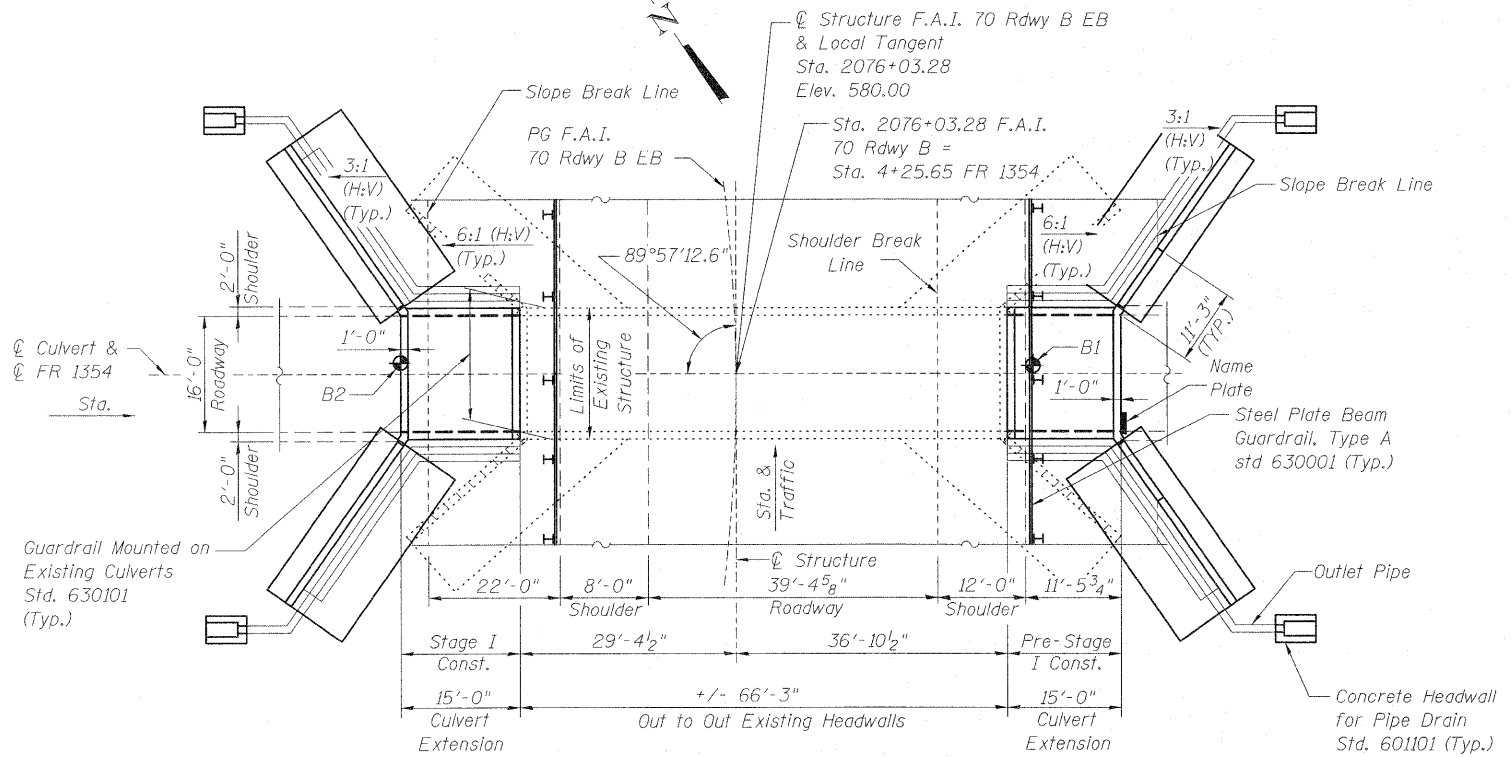
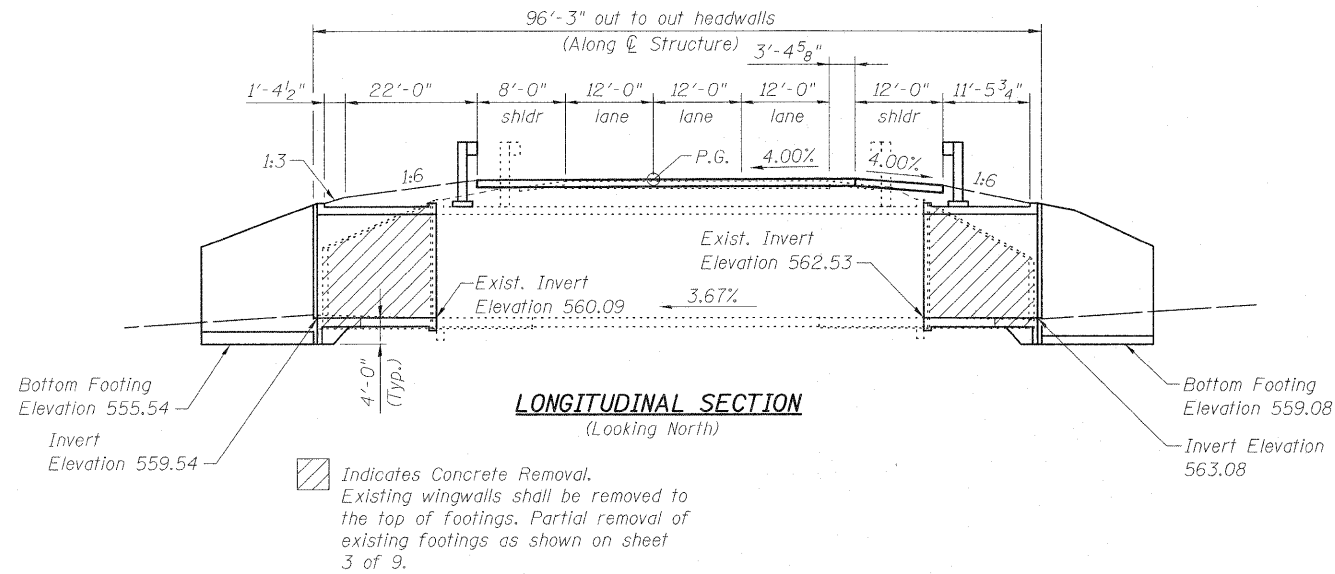
Reinforcement bars shall conform to the requirements of ASTM A 706 GR 60. See special provisions.  
Removal of the existing wings during construction shall be completed according to section 501.05 of the standard spec.  
Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.  
Expansion bolts shall be according to standard specifications article 1006.10. Precast concrete culvert alternative will not be allowed at this site.  
For the culvert extension, the outside surface of the walls, top, slab, and back of wingwalls below grade shall be waterproofed according to Article 503.18 of the Standard Specifications. Cost of waterproofing shall be included in the cost of "Concrete Box Culverts".  
The final finish on the Culvert Extension bottom slabs shall be Type A according to Article 420.09 of the Standard Spec.  
Epoxy Crack Injection shall be according to the Standard Specifications Section 590. Concrete Sealer shall be applied to the inside faces of the new & existing box culverts & the faces of the exposed wingwall.  
For maintenance of traffic and Stage Construction Layout See Roadway Plans. Reinforcement bars designated (E) shall be epoxy coated.  
Porous Granular Embankment (Special) needs to be crushed stone, Gradation CA7 or CA11.

STATION 2076+03.28  
REBUILT 200\_ BY  
STATE OF ILLINOIS  
F.A.I. RT. 70 SEC. (25-3)BY  
LOADING HS-20-44 & ALT.  
STR. NO 025-2018

NAME PLATE  
(See Std. 515001)

INDEX OF SHEETS

1. General Plan
2. Stage Construction Details
3. Concrete Removal & Expansion Bolt Details
4. Drainage Details
5. Culvert Details
6. West Extension Wing Walls
7. East Extension Wing Walls
8. Existing Culvert Repair Details
9. Soil Borings



BOX FLOOR LOADING H15-44

LOADING OVER BOX

HS20-44 & ALT.

No Future Wearing Surface

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

New Construction

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

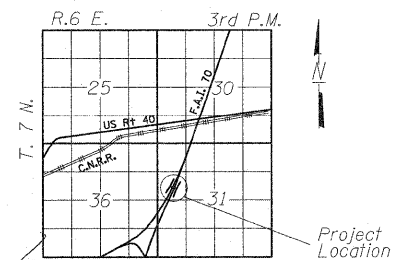
Existing Structure

f'c = 3,500 psi (Top Slab & Bottom Slab)  
f'c = 2,500 psi (Side Walls & Footings)  
fy = 40,000 psi (Reinforcement)

Illinois Design Firm Number 184.001670

BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.

3 Oak Drive  
Maryville, IL 62062-5685  
Local (618) 288-4665  
Fax 618-288-4666



TOTAL BILL OF MATERIAL

| ITEM                                         | UNIT    | TOTAL  |
|----------------------------------------------|---------|--------|
| Geocomposite Wall Drain                      | Sq. Yd. | 258    |
| Pipe Underdrains for Structures, 4"          | Foot    | 164    |
| Porous Granular Embankment (Special)         | Cu. Yd. | 350    |
| Expansion Bolts 3/4"                         | Each    | 96     |
| Concrete Box Culverts                        | Cu. Yd. | 255.3  |
| Reinforcement Bars, Epoxy Coated             | Pound   | 43,260 |
| Name Plates                                  | Each    | 1      |
| Concrete Removal                             | Cu. Yd. | 50.9   |
| Epoxy Crack Injection                        | Foot    | 70     |
| Concrete Sealer                              | Sq. Ft. | 7,511  |
| Porous Granular Embankment                   | Cu. Yd. | 60     |
| Removal and Disposal of Unsuitable Materials | Cu. Yd. | 60     |

GENERAL PLAN  
EASTBOUND F.A.I. ROUTE 70  
ROADWAY B E.B.  
OVER FRONTAGE ROAD 1354  
STATION 2076+03.28  
STRUCTURE NO. 025-2018

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |



APPROVED

FOR STRUCTURAL ADEQUACY ONLY

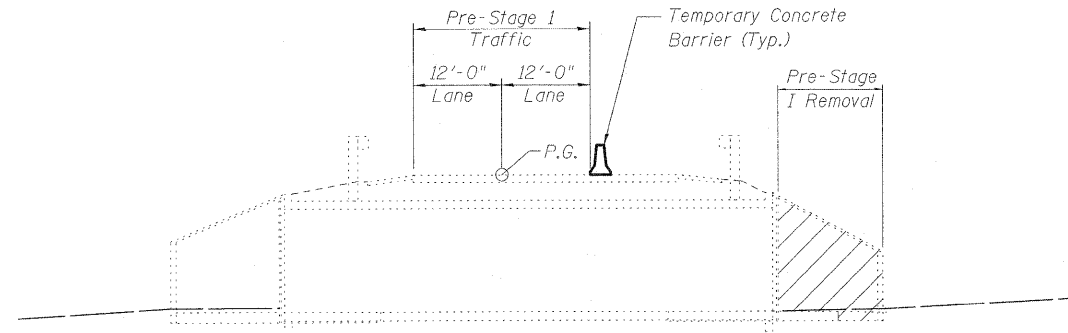
Ralph E. Anderson (TSP)  
ENGINEER OF BRIDGES AND STRUCTURES

EXP. 11-30-2010  
Chadwick J. Fuesting 3/18/10

|                                                 |                   |                     |                     |                      |                  |
|-------------------------------------------------|-------------------|---------------------|---------------------|----------------------|------------------|
| SHEET NO. 1<br>9 SHEETS                         | F.A.I. RTE.<br>70 | SECTION<br>(25-3)BY | COUNTY<br>EFFINGHAM | TOTAL SHEETS<br>1416 | SHEET NO.<br>467 |
|                                                 | SN 025-2018       |                     | CONTRACT NO. 74296  |                      |                  |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |                   |                     |                     |                      |                  |

5/18/2010 3:18:20 PM 025-2018.dgn

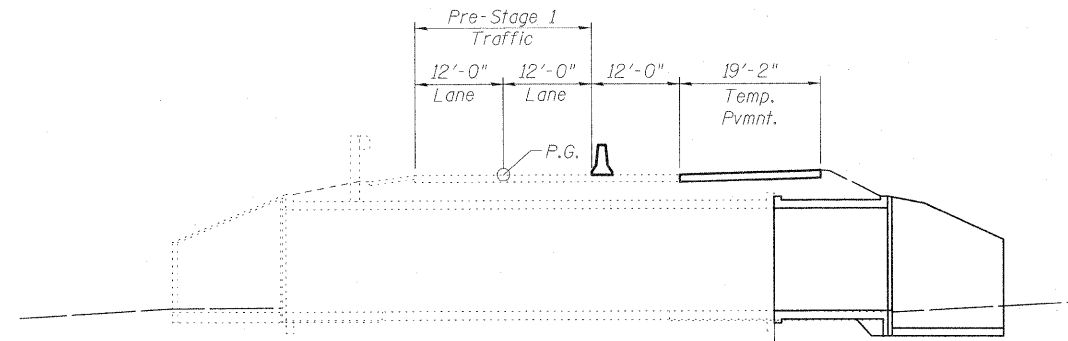
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**PRE STAGE 1 REMOVAL**

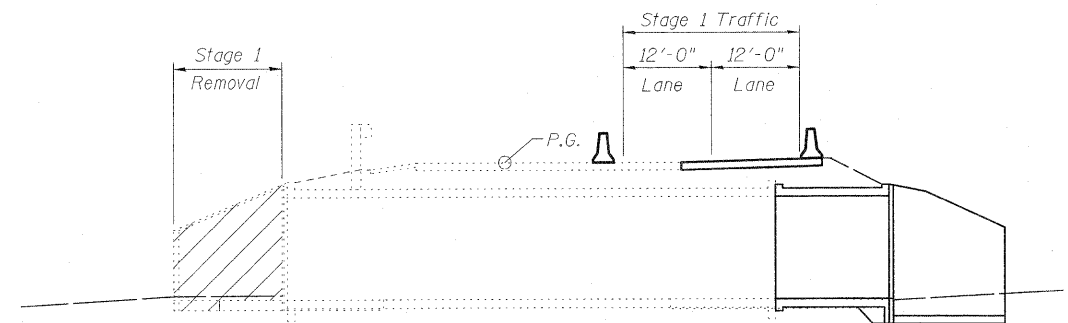
Indicates Concrete Removal

Note: All dimensions are radial to 57/70 unless otherwise noted. All Cross-Sections Looking North. For quantity of Concrete barrier see Roadway Plans.

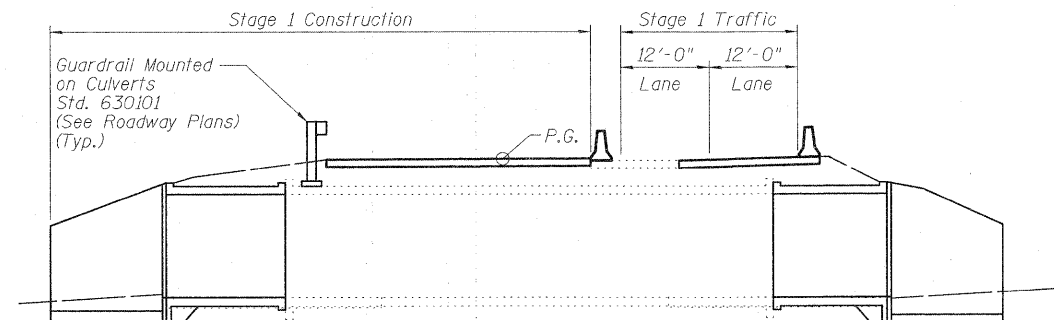


**PRE STAGE 1 CONSTRUCTION**

Culvert Extension Along  $\phi$  of Culvert

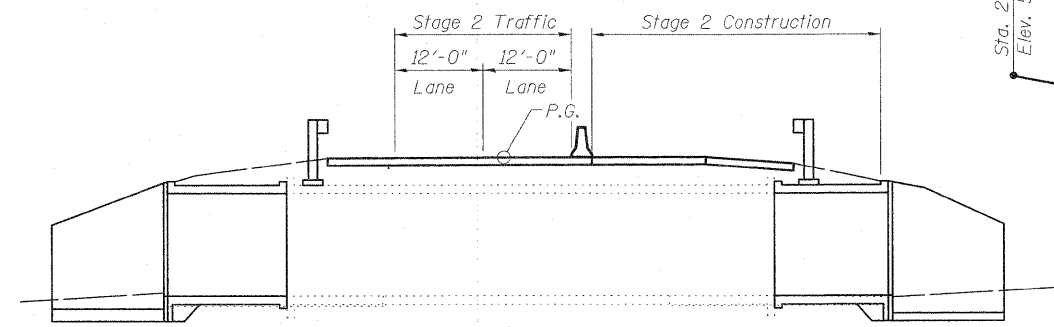


**STAGE 1 REMOVAL**

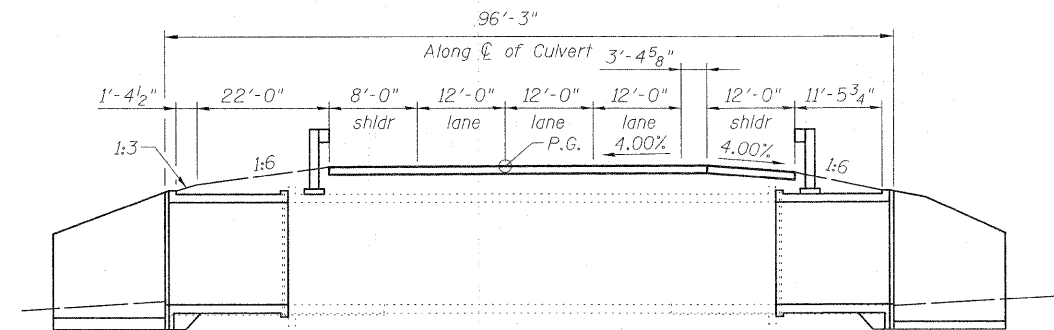


**STAGE 1 CONSTRUCTION**

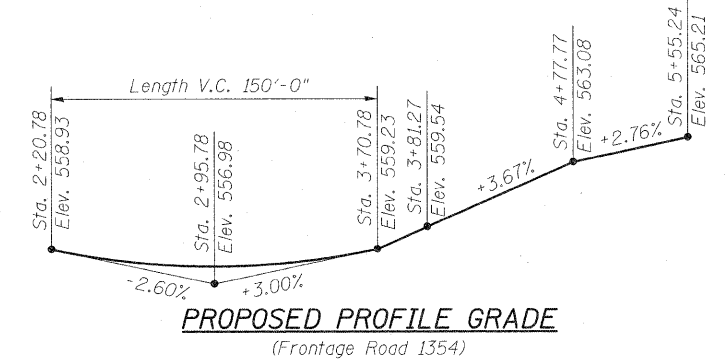
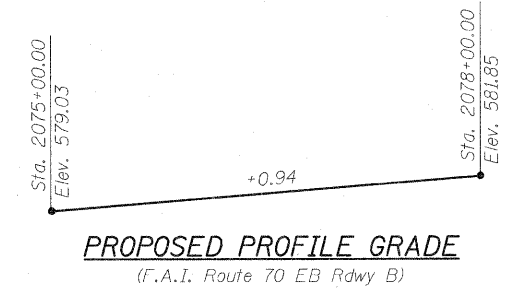
Culvert Extension Along  $\phi$  of Culvert



**STAGE 2 CONSTRUCTION**



**FINAL CONFIGURATION**



**PROPOSED HORIZONTAL CURVE DATA FR 1354**

P.I. Sta. 3+40.85 FR 1354  
 $\Delta = 9^\circ 14' 24''$   
 $D = 8^\circ 00' 17''$   
 $R = 715.78'$   
 $T = 57.84'$   
 $L = 115.43'$   
 $E = 2.33'$   
 P.C. Sta. = 2+83.01  
 P.T. Sta. = 3+98.44

**PROPOSED HORIZONTAL CURVE DATA F.A.I. 70 EB RDWY B**

P.I. Sta. 2058+88.72  
 $\Delta = 60^\circ 36' 08''$  (LT)  
 $D = 1^\circ 15' 05''$   
 $R = 4578.30'$   
 $T = 2675.46'$   
 $L = 4842.50'$   
 $E = 724.43'$   
 $SE = 0.04$  ft/ft  
 $SE$  Run = 120.00'  
 P.C. Sta. = 2032+13.26  
 P.T. Sta. = 2080+55.76

**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 025-2018**

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |

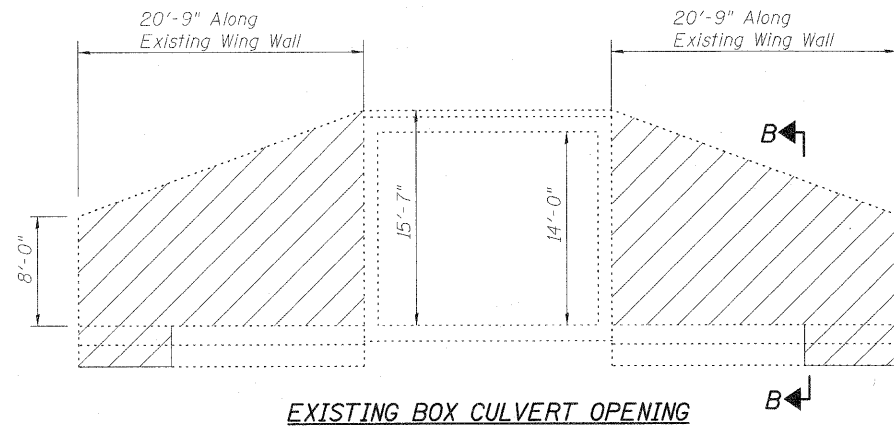


**BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.**

3 Oak Drive  
 Maryville, IL 62062-6685  
 Local (618) 288-4665  
 Fax 618-288-4666

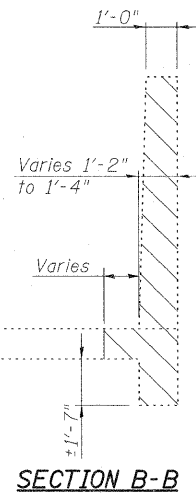
|                                                 |                   |                     |                     |                      |                  |
|-------------------------------------------------|-------------------|---------------------|---------------------|----------------------|------------------|
| SHEET NO. 2<br><br>9 SHEETS                     | F.A.I. RTE.<br>70 | SECTION<br>(25-3)BY | COUNTY<br>EFFINGHAM | TOTAL SHEETS<br>1416 | SHEET NO.<br>468 |
|                                                 | SN 025-2018       |                     | CONTRACT NO. 74296  |                      |                  |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |                   |                     |                     |                      |                  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

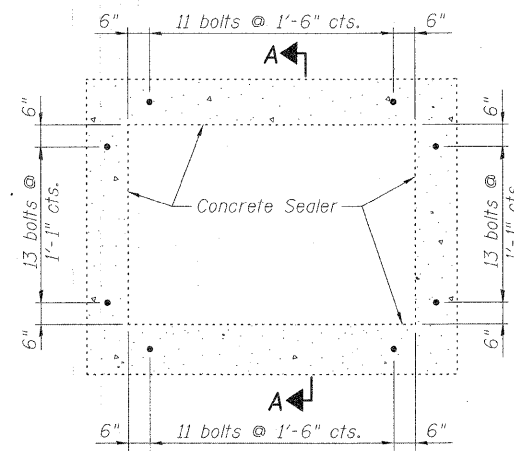


**EXISTING BOX CULVERT OPENING**  
(same for both culvert extensions)

▨ Indicates Concrete Removal.  
Existing wingwalls shall be removed to the top of footings. Removal of existing wingwall shall be paid for as Concrete Removal.

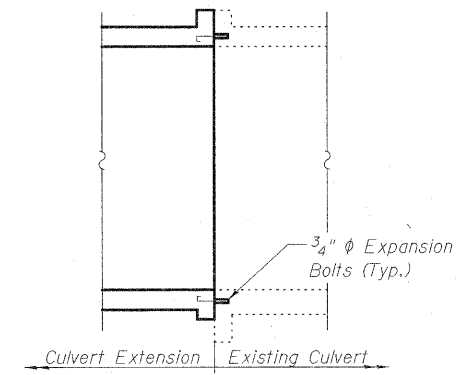


**SECTION B-B**

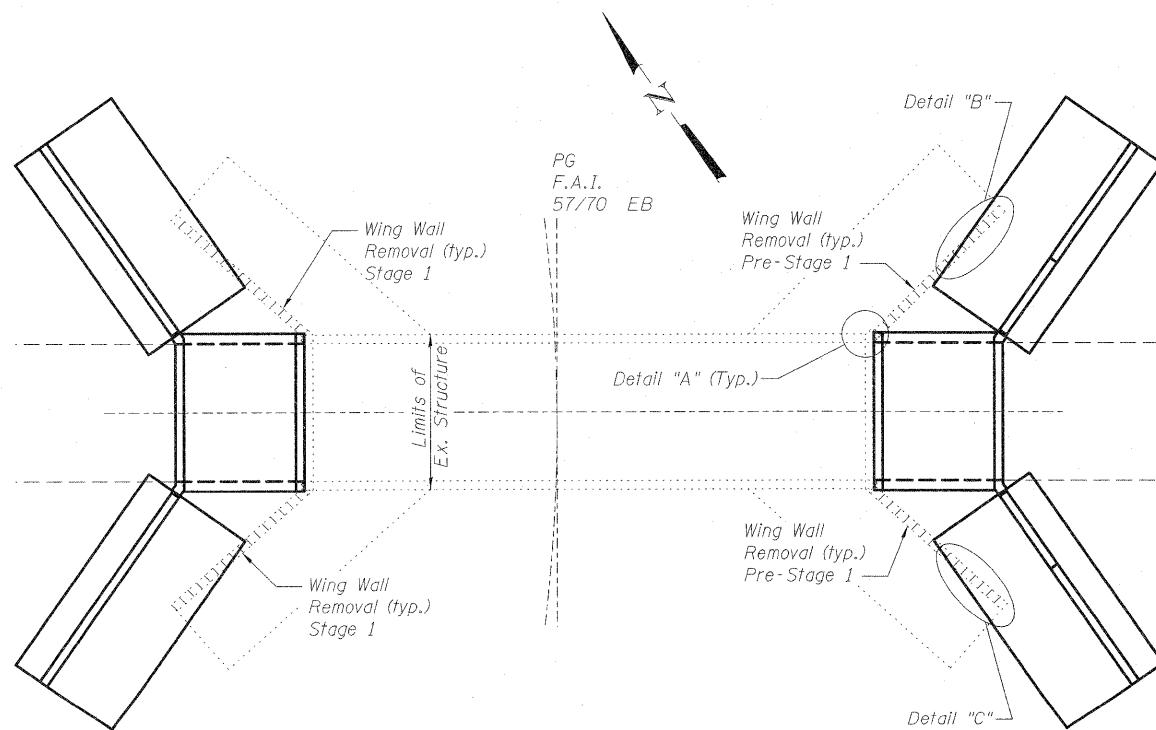


**EXPANSION BOLT INSTALLATION FOR CULVERT EXTENSIONS**

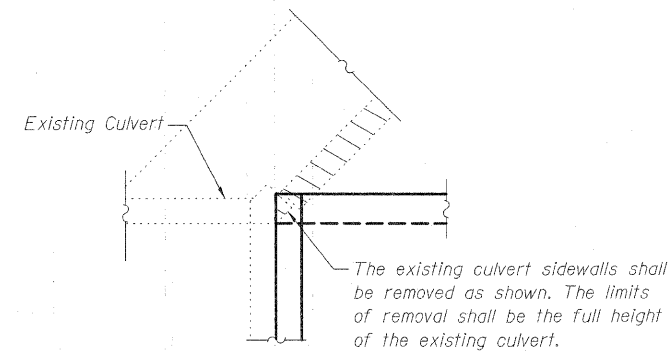
(Expansion bolts shall be  $\frac{3}{4}$ "  $\phi$  hooked bolts. The hooked bolts shall extend 9" into the new concrete)



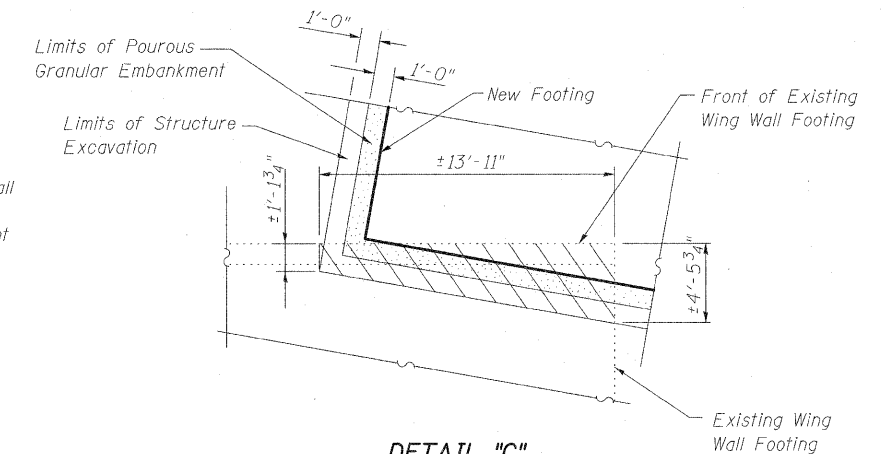
**SECTION A-A OF EXPANSION BOLT DETAILS**



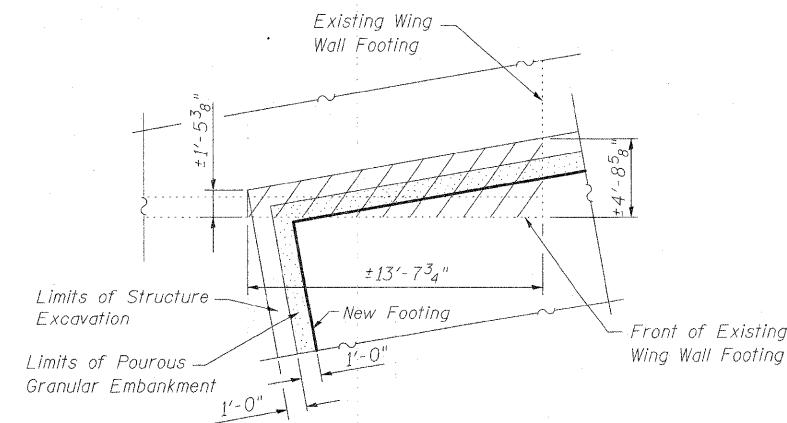
**CULVERT REMOVAL PLAN**



**DETAIL "A"**



**DETAIL "C"**  
(Typ. South Wing Walls)



**DETAIL "B"**  
(Typ. North Wing Walls)

**BILL OF MATERIAL**

| ITEM                            | UNIT    | TOTAL |
|---------------------------------|---------|-------|
| Concrete Removal                | Cu. Yd. | 50.9  |
| Expansion Bolts $\frac{3}{4}$ " | Each    | 96    |

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |

**CONCRETE REMOVAL & EXPANSION BOLT DETAILS  
STRUCTURE NO. 025-2018**

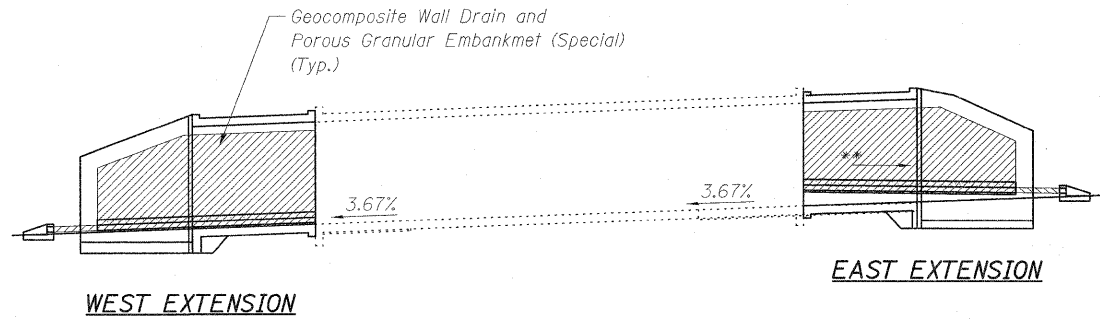
|                                                 |                   |                     |                     |                      |                  |
|-------------------------------------------------|-------------------|---------------------|---------------------|----------------------|------------------|
| SHEET NO. 3<br>9 SHEETS                         | F.A.I. RTE.<br>70 | SECTION<br>(25-3)BY | COUNTY<br>EFFINGHAM | TOTAL SHEETS<br>1416 | SHEET NO.<br>469 |
|                                                 | SN 025-2018       |                     | CONTRACT NO. 74296  |                      |                  |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |                   |                     |                     |                      |                  |



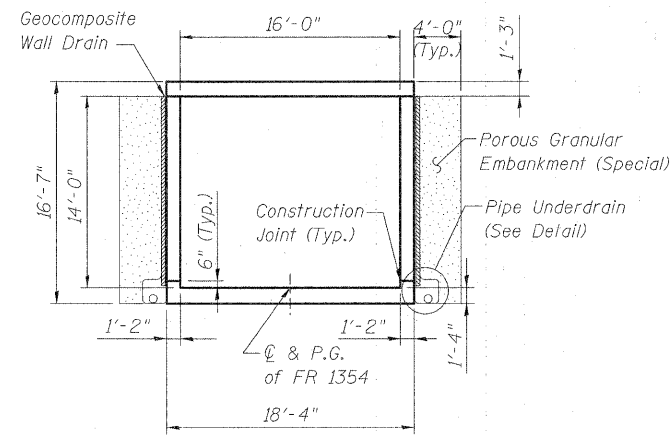
**BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.**

3 Oak Drive  
Maryville, IL 62062-6635  
Local (618) 288-4665  
Fax 618-288-4666

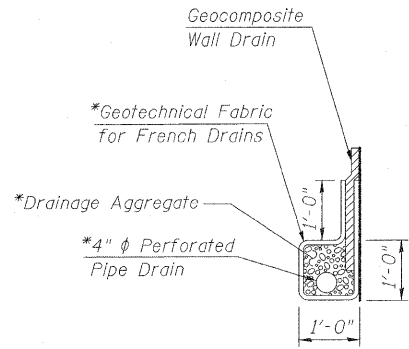
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



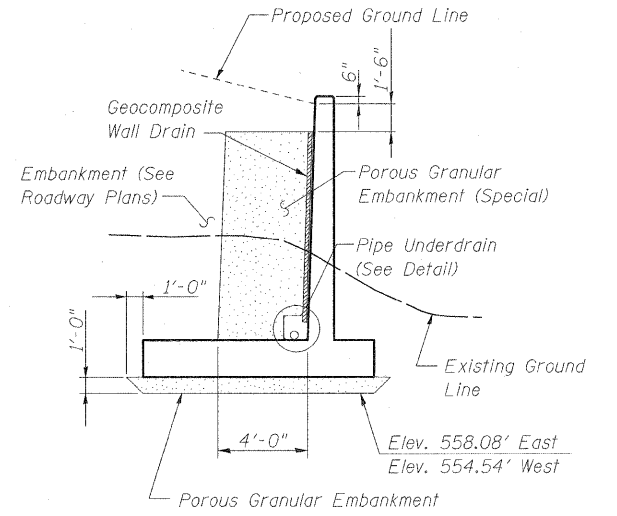
**DRAINAGE ELEVATION**  
\*\*For East Extension slope to drain 1.0% min.



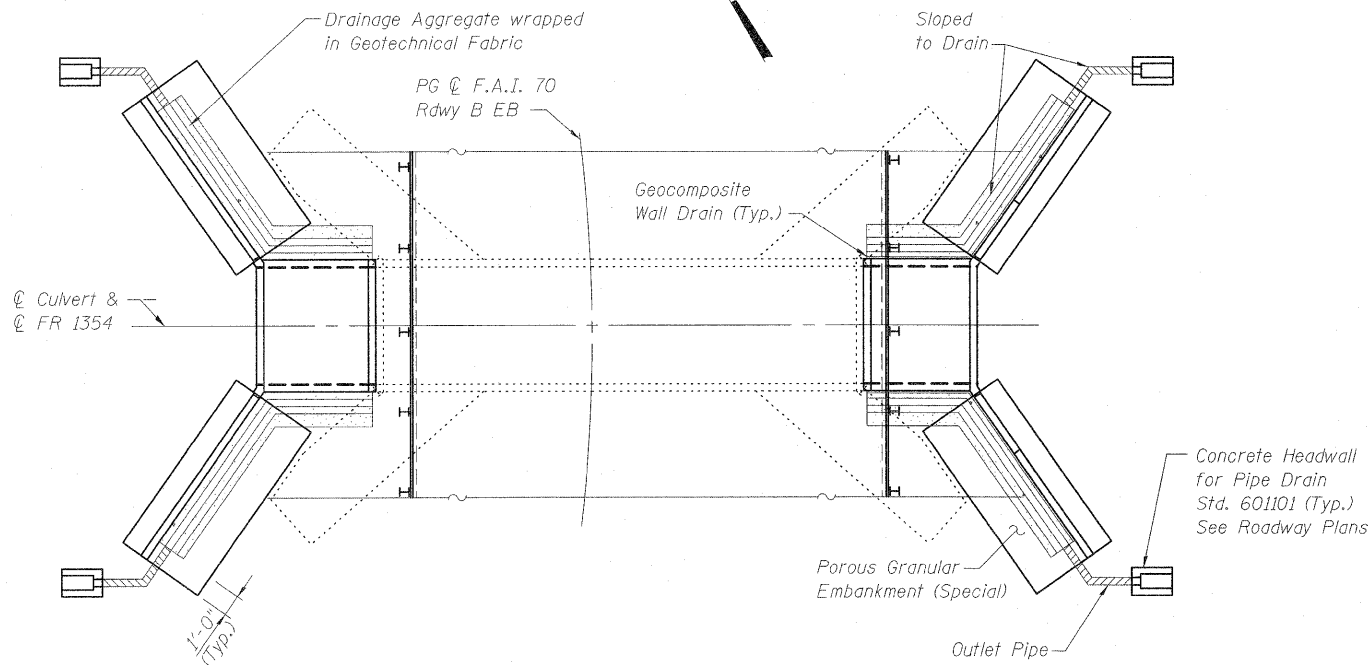
**SECTION THRU BARREL**



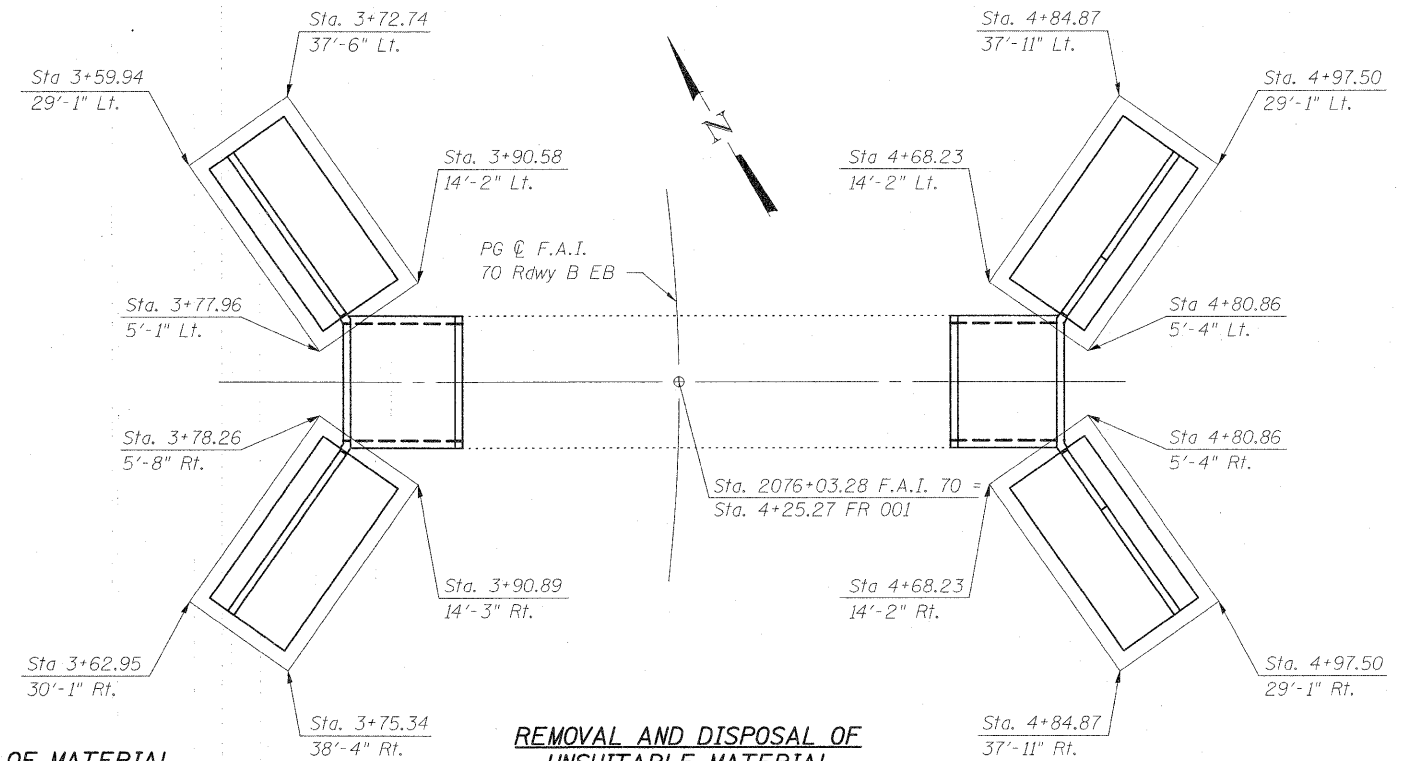
**PIPE UNDERDRAIN DETAIL**  
\*Included in the cost of "Pipe Underdrain for Structures".



**SECTION THRU WINGWALL**



**DRAINAGE PLAN**



**BILL OF MATERIAL**

| ITEM                                         | UNIT    | TOTAL |
|----------------------------------------------|---------|-------|
| Geocomposite Wall Drain                      | Sq. Yd. | 258   |
| Pipe Underdrains for Structures, 4"          | Foot    | 164   |
| Porous Granular Embankment                   | Cu. Yd. | 60    |
| Porous Granular Embankment (Special)         | Cu. Yd. | 350   |
| Removal and Disposal of Unsuitable Materials | Cu. Yd. | 60    |

**REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL**

Note:  
The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

Notes:  
A Geocomposite Wall Drain shall be installed on the fill faces of the culvert extension walls and wings and draped under the approximate 1'-0" x 1'-0" block of wrapped drainage aggregate.  
A 4" diameter perforated drain shall be situated within an approximate 1'-0" x 1'-0" block of drainage aggregate shall be wrapped completely in Geotechnical Fabric for French Drains. Extend perforated drain and wrapped drainage aggregate past wings parallel to centerline of tunnel to intersection with fill slope at the low end of tunnel. Pipes shall drain onto concrete headwalls (Article 601.05 of the Std. Specifications and Highway Std. 601101).  
Cost of perforated drain pipes, outlet pipe concrete headwalls, drainage aggregate, and geotechnical fabric shall be included with the pay item Pipe Underdrain for Structures, Per GBSP 51.

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |

**DRAINAGE AND EXCAVATION DETAILS  
STRUCTURE NO. 025-2018**

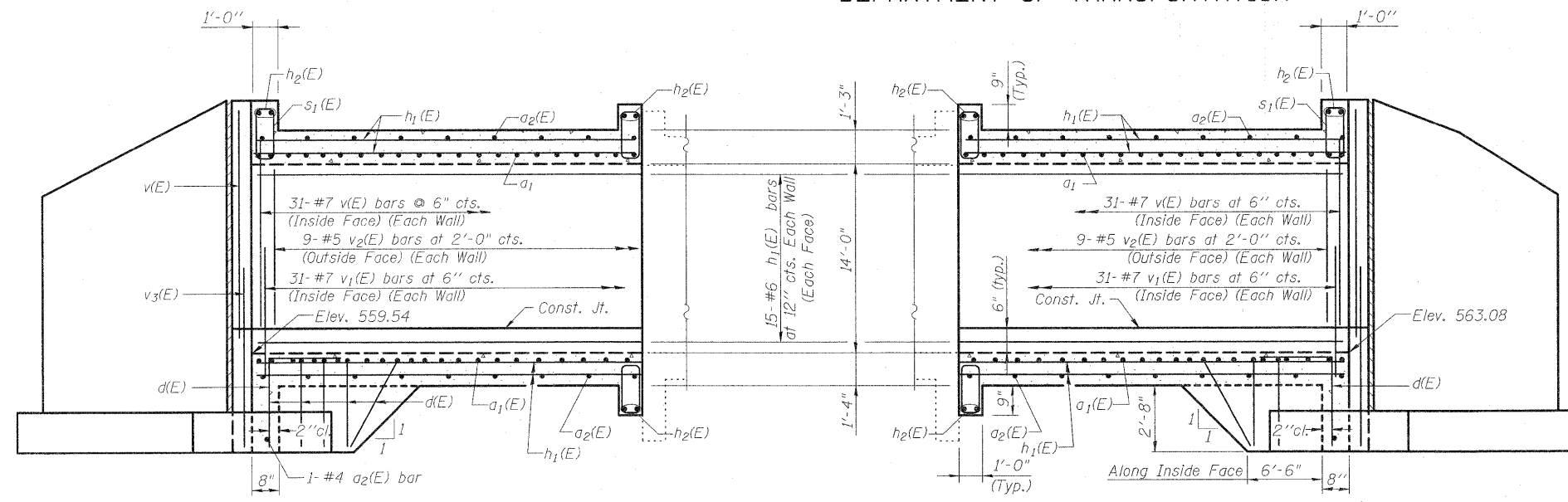
|                                                 |                   |                     |                     |                      |                  |
|-------------------------------------------------|-------------------|---------------------|---------------------|----------------------|------------------|
| SHEET NO. 4<br>9 SHEETS                         | F.A.I. RTE.<br>70 | SECTION<br>(25-3)BY | COUNTY<br>EFFINGHAM | TOTAL SHEETS<br>1416 | SHEET NO.<br>470 |
|                                                 | SN 025-2018       |                     | CONTRACT NO. 74296  |                      |                  |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |                   |                     |                     |                      |                  |



**BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.**

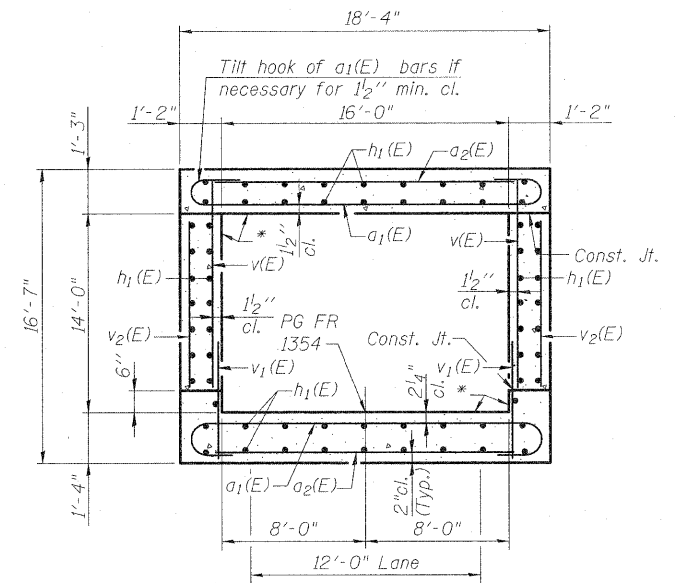
3 Oak Drive  
Maryville, IL 62963-5635  
Local (618) 288-4666  
Fax 618-288-4666

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



WEST EXTENSION SECTION

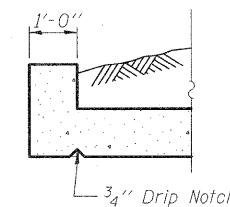
EAST EXTENSION SECTION



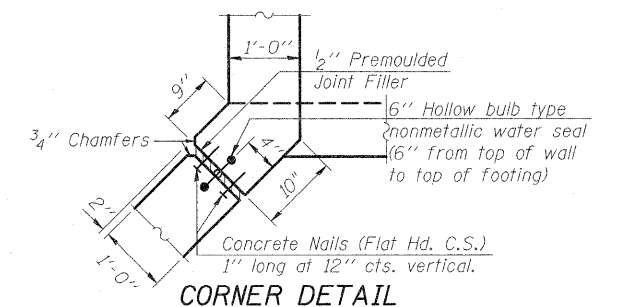
SECTION THRU BARREL EXTENSION

(Looking Upstation)

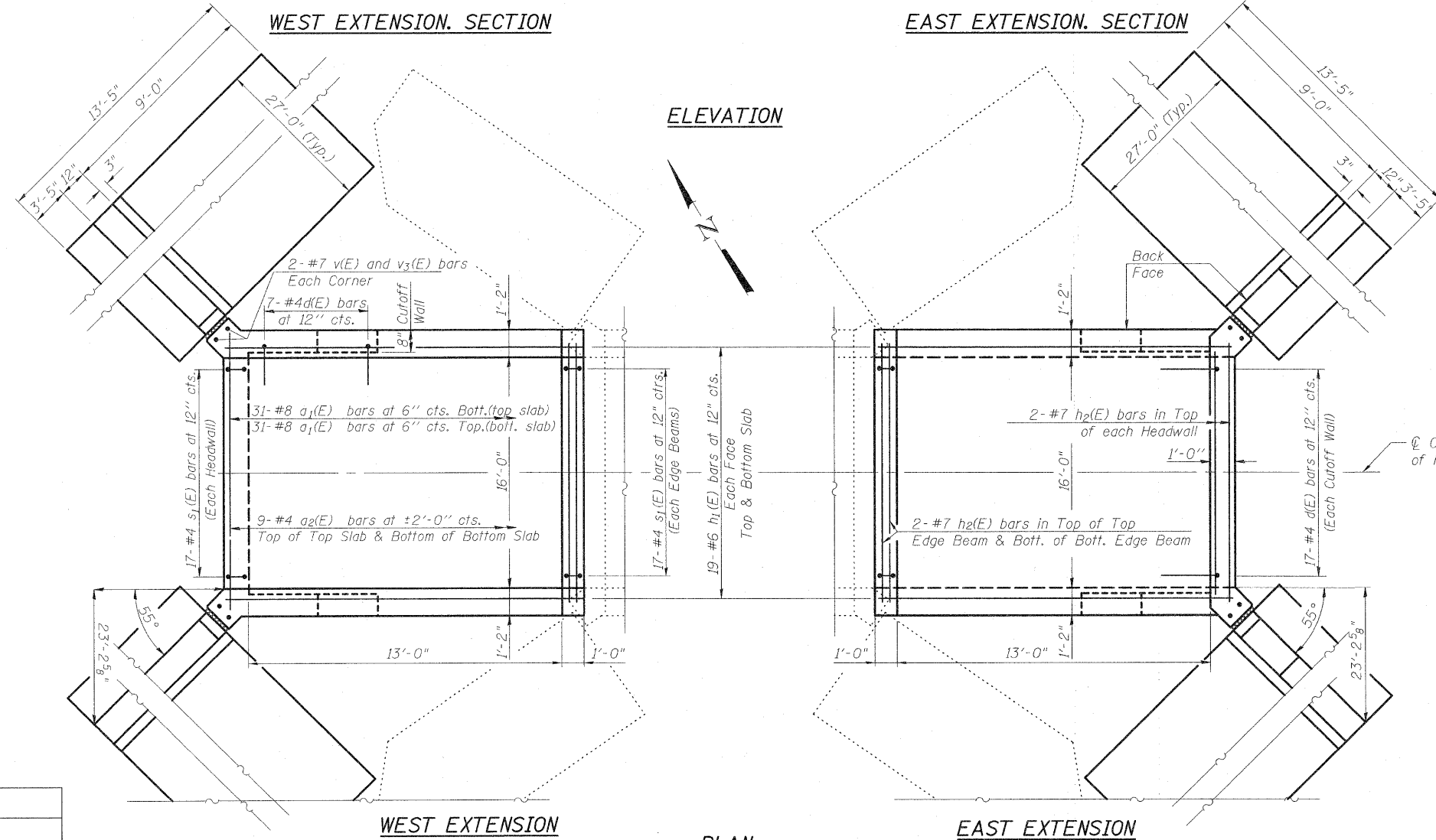
\* Apply Concrete Sealer



SECTION THRU HEADWALL



CORNER DETAIL



ELEVATION

WEST EXTENSION

EAST EXTENSION

PLAN

Notes:  
Barrel Dimensions and reinforcement are the same for both extensions.  
See Sheets 6 and 7 of 9 for Wingwall Layout and Reinforcement.  
For Bill of Materials see Sheet 7 of 9.

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |



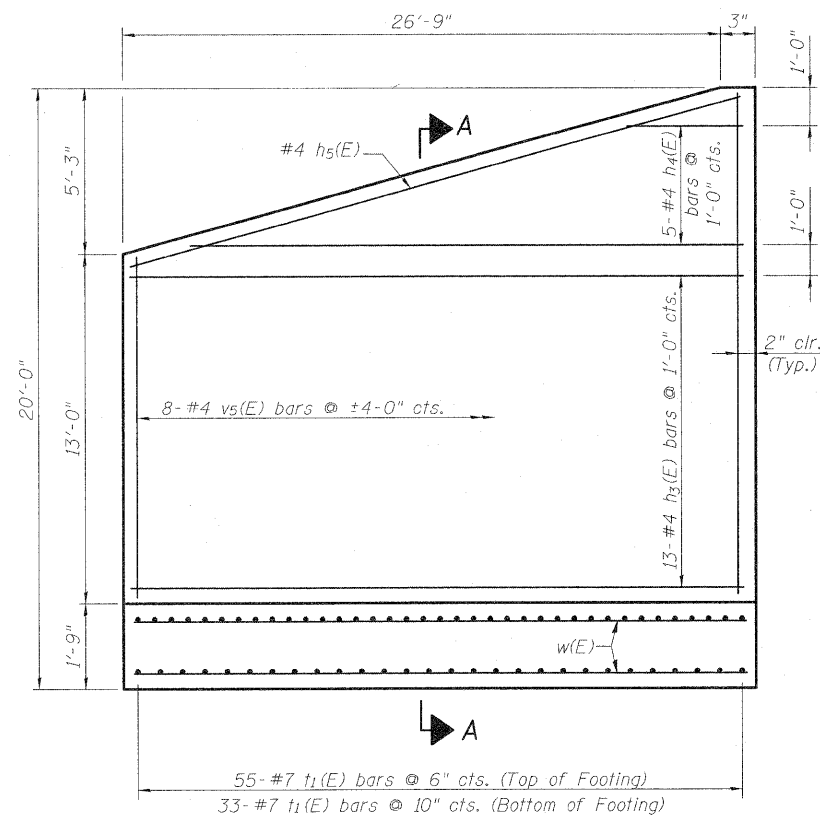
BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.

3 Oak Drive  
Maryville, IL 62062-5635  
Local (618) 288-4666  
Fax 618-288-4666

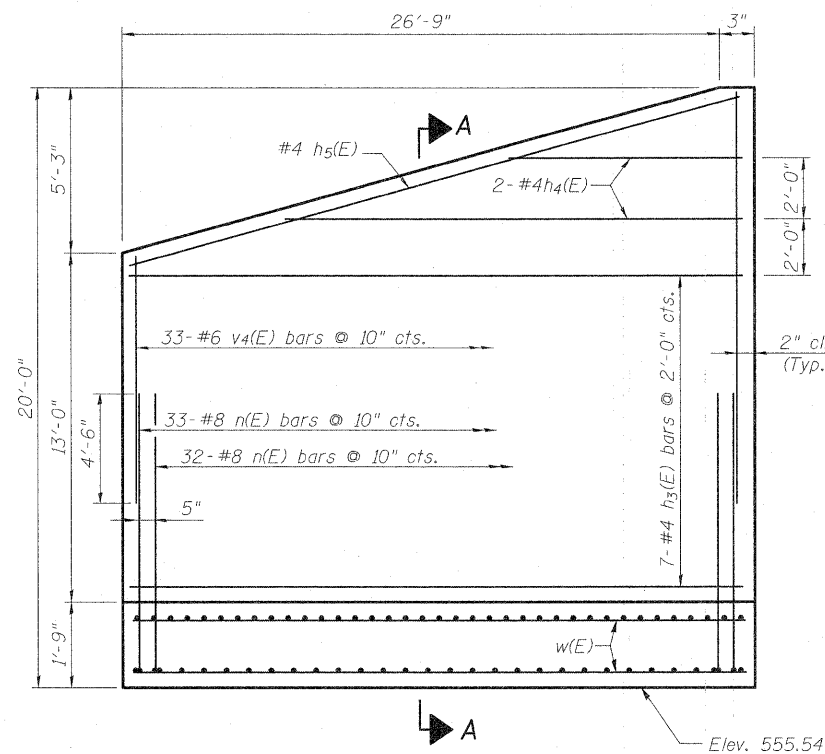
|                                                 |             |          |                    |              |           |
|-------------------------------------------------|-------------|----------|--------------------|--------------|-----------|
| SHEET NO. 5                                     | F.A.I. RTE. | SECTION  | COUNTY             | TOTAL SHEETS | SHEET NO. |
|                                                 | 70          | (25-3)BY | EFFINGHAM          | 1416         | 471       |
| 9 SHEETS                                        | SN 025-2018 |          | CONTRACT NO. 74296 |              |           |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT |             |          |                    |              |           |

CULVERT DETAILS  
STRUCTURE NO. 025-2018

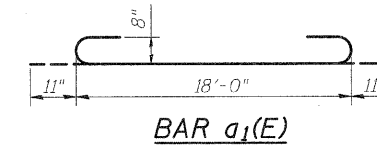
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



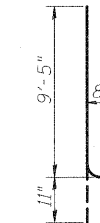
**FRONT FACE**



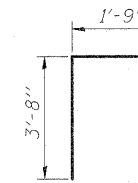
**BACK FACE**



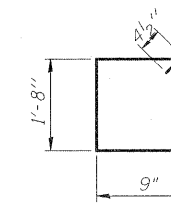
**BAR a<sub>1</sub>(E)**



**BARS n(E)**

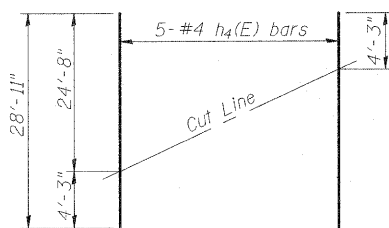


**BAR d(E)**

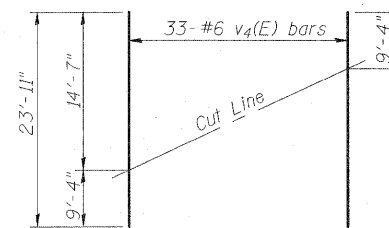


**BARS s<sub>1</sub>(E)**

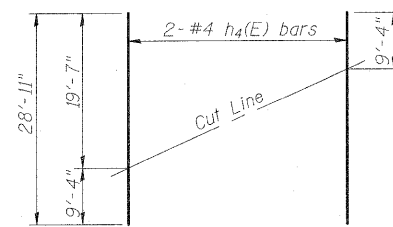
**WEST WINGWALL REINFORCEMENT**



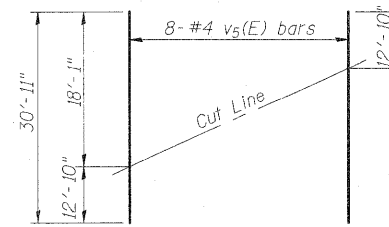
**FIELD CUTTING DIAGRAM**  
(h<sub>4</sub>(E) bars Front Face)



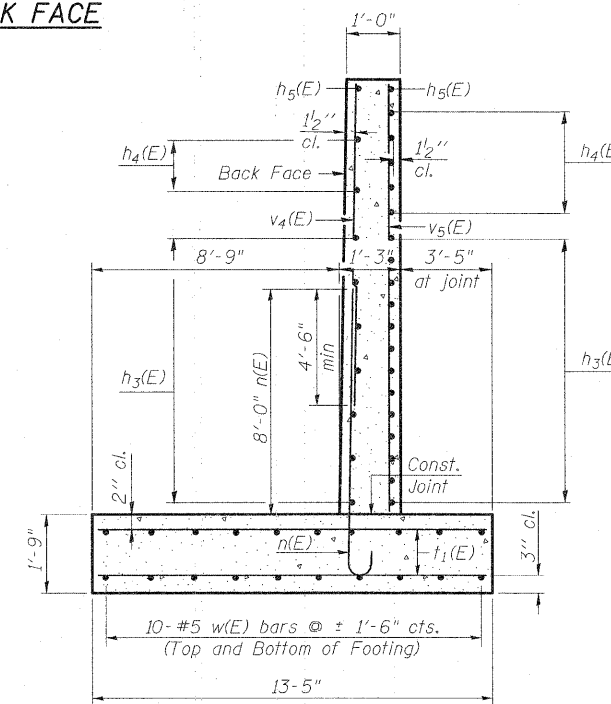
**FIELD CUTTING DIAGRAM**  
(v<sub>4</sub>(E) bars Back Face)



**FIELD CUTTING DIAGRAM**  
(h<sub>4</sub>(E) bars Back Face)



**FIELD CUTTING DIAGRAM**  
(v<sub>5</sub>(E) bars Front Face)



**SECTION A-A**

Note:  
For Bill of Material see Sheet 7 of 9.

**WEST EXTENSION WING WALLS  
STRUCTURE NO. 025-2018**

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |

Order bars full length. Cut as shown and use remainder of bars in opposite wingwall.



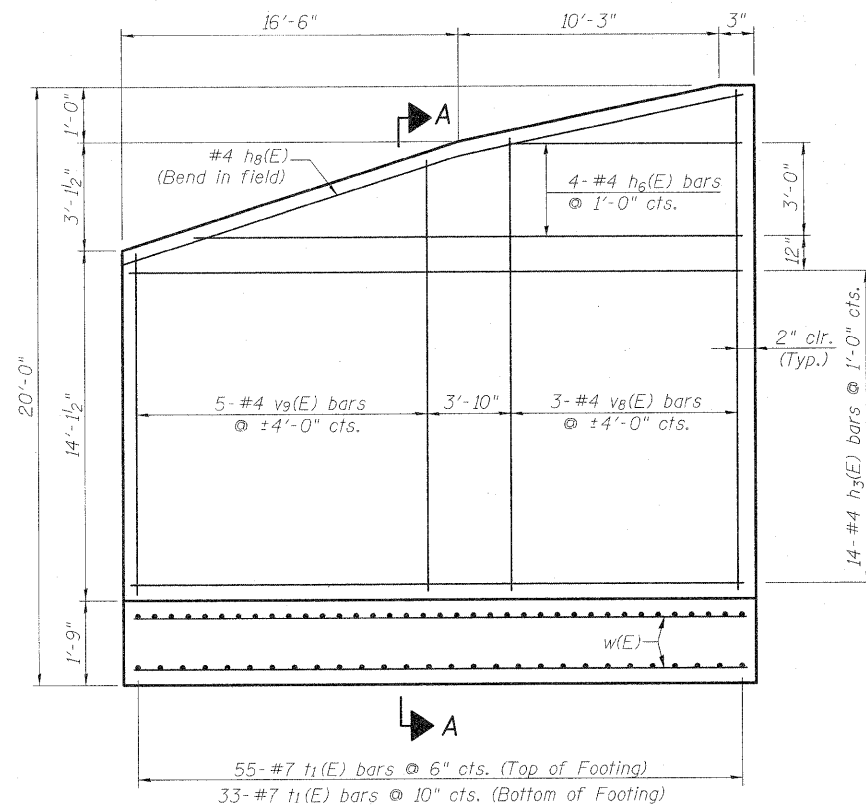
**BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.**

3 Oak Drive  
Maryville, IL 62062-5635  
Local (618) 288-4666  
Fax 618-288-4666

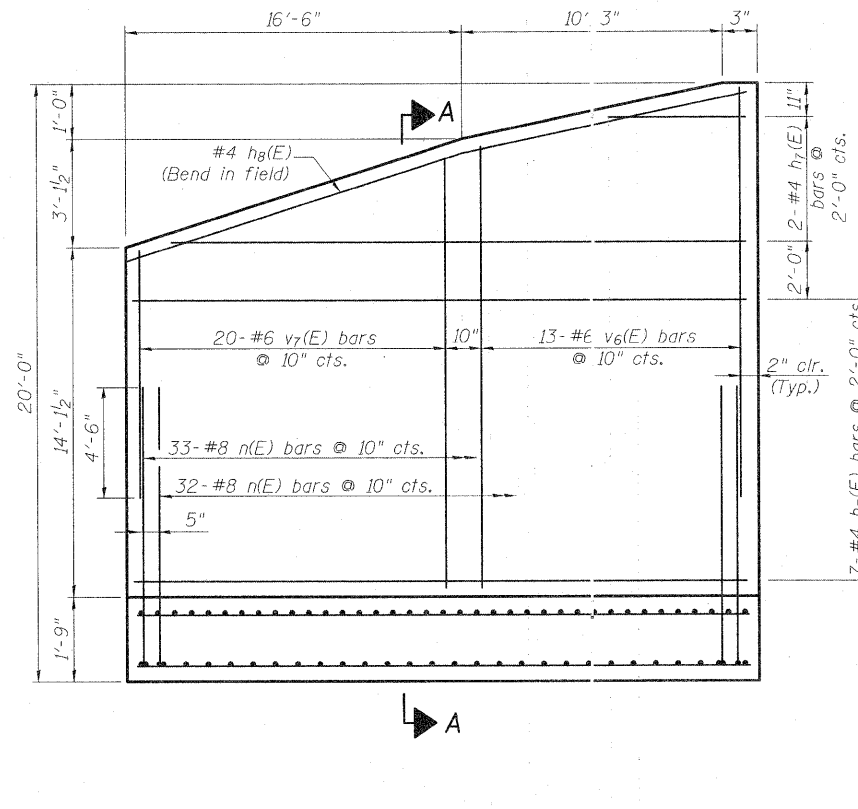
|                                                 |             |          |                    |              |           |
|-------------------------------------------------|-------------|----------|--------------------|--------------|-----------|
| SHEET NO. 6<br>9 SHEETS                         | F.A.I. RTE. | SECTION  | COUNTY             | TOTAL SHEETS | SHEET NO. |
|                                                 | 70          | (25-3)BY | EFFINGHAM          | 1416         | 472       |
| SN 025-2018                                     |             |          | CONTRACT NO. 74296 |              |           |
| FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT |             |          |                    |              |           |



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

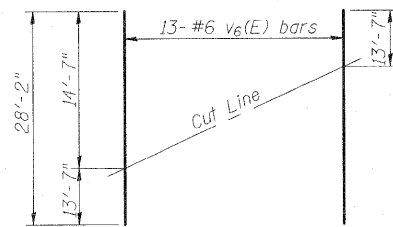


FRONT FACE

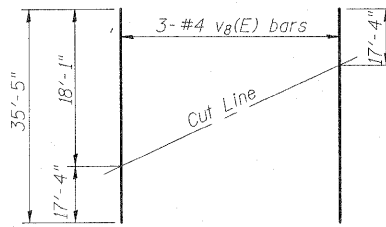


BACK FACE

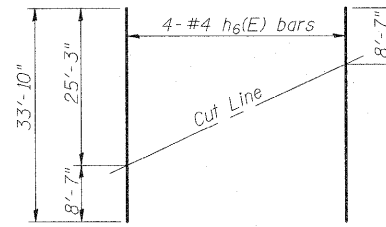
EAST WINGWALL REINFORCEMENT



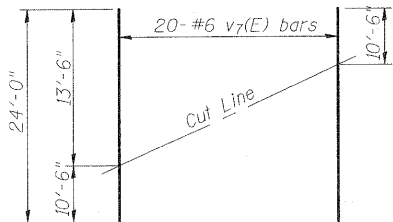
FIELD CUTTING DIAGRAM (v<sub>6</sub>(E) bars)



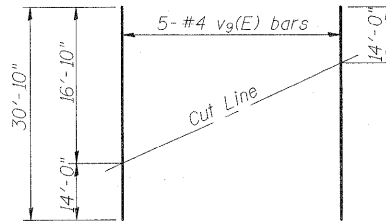
FIELD CUTTING DIAGRAM (v<sub>8</sub>(E) bars)



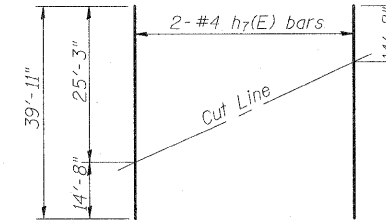
FIELD CUTTING DIAGRAM (h<sub>6</sub>(E) bars Front Face)



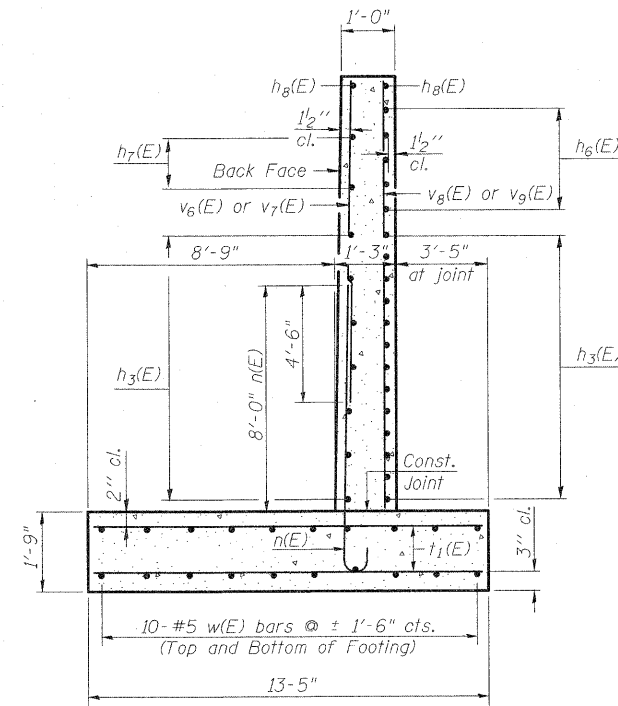
FIELD CUTTING DIAGRAM (v<sub>7</sub>(E) bars)



FIELD CUTTING DIAGRAM (v<sub>9</sub>(E) bars)



FIELD CUTTING DIAGRAM (h<sub>7</sub>(E) bars Back Face)



SECTION A-A

BILL OF MATERIAL

| Bar                              | No. | Size | Length  | Shape  |
|----------------------------------|-----|------|---------|--------|
| a <sub>1</sub> (E)               | 124 | #8   | 19'-10" | U      |
| a <sub>2</sub> (E)               | 38  | #4   | 18'-0"  | U      |
| d (E)                            | 62  | #4   | 5'-5"   | L      |
| h <sub>1</sub> (E)               | 272 | #6   | 14'-8"  | —      |
| h <sub>2</sub> (E)               | 12  | #7   | 18'-0"  | —      |
| h <sub>3</sub> (E)               | 82  | #4   | 26'-8"  | —      |
| h <sub>4</sub> (E)               | 7   | #4   | 28'-11" | —      |
| h <sub>5</sub> (E)               | 4   | #4   | 27'-2"  | —      |
| h <sub>6</sub> (E)               | 4   | #4   | 33'-10" | —      |
| h <sub>7</sub> (E)               | 2   | #4   | 39'-11" | —      |
| h <sub>8</sub> (E)               | 4   | #4   | 28'-0"  | —      |
| n (E)                            | 260 | #8   | 10'-4"  | U      |
| s <sub>1</sub> (E)               | 102 | #4   | 5'-7"   | □      |
| t <sub>1</sub> (E)               | 352 | #7   | 13'-1"  | —      |
| v (E)                            | 132 | #7   | 14'-7"  | —      |
| v <sub>1</sub> (E)               | 124 | #7   | 4'-5"   | —      |
| v <sub>2</sub> (E)               | 36  | #5   | 13'-10" | —      |
| v <sub>3</sub> (E)               | 8   | #7   | 8'-0"   | —      |
| v <sub>4</sub> (E)               | 33  | #6   | 23'-11" | —      |
| v <sub>5</sub> (E)               | 8   | #4   | 30'-11" | —      |
| v <sub>6</sub> (E)               | 13  | #6   | 28'-2"  | —      |
| v <sub>7</sub> (E)               | 20  | #6   | 24'-0"  | —      |
| v <sub>8</sub> (E)               | 3   | #4   | 35'-5"  | —      |
| v <sub>9</sub> (E)               | 5   | #4   | 30'-10" | —      |
| w (E)                            | 80  | #5   | 26'-8"  | —      |
| Concrete Box Culverts            |     |      | Cu. Yd. | 255.3  |
| Reinforcement Bars, Epoxy Coated |     |      | Pound   | 43,260 |

|          |               |
|----------|---------------|
| DESIGNED | B.B.          |
| CHECKED  | C.J.F.        |
| DRAWN    | J.G.          |
| CHECKED  | C.J.F. & B.B. |

Order bars full length. Cut as shown and use remainder of bars in opposite wing.



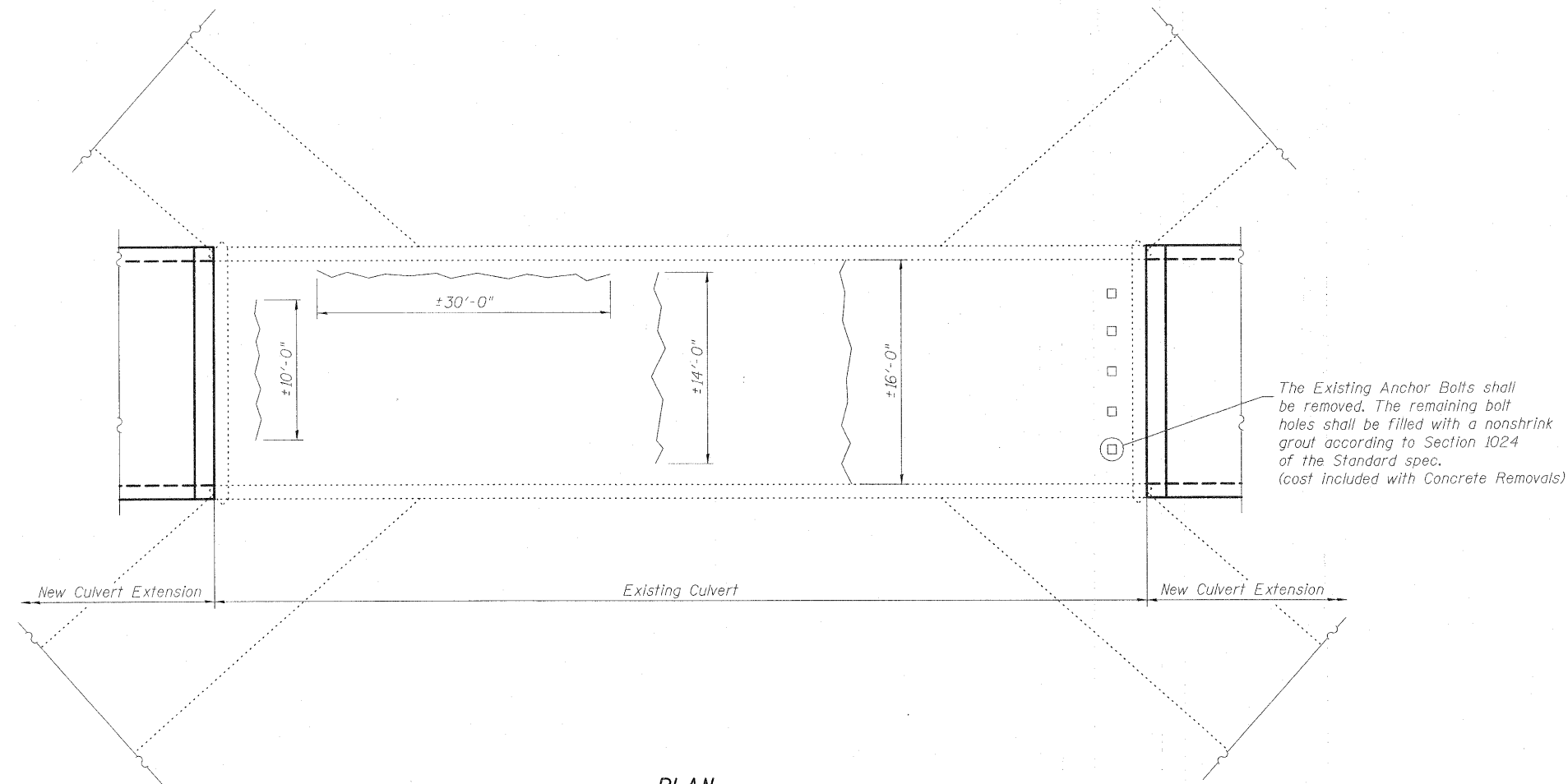
**BERNARDIN  
LOCHMUELLER &  
ASSOCIATES, INC.**

3 Oak Drive  
Maryville, IL 62132-5655  
Local (618) 288-4665  
Fax 618-288-4666

|                         |                                |                                    |                     |                                        |                  |
|-------------------------|--------------------------------|------------------------------------|---------------------|----------------------------------------|------------------|
| SHEET NO. 7<br>9 SHEETS | F.A.I. RTE.<br>70              | SECTION<br>(25-3)BY<br>SN 025-2018 | COUNTY<br>EFFINGHAM | TOTAL SHEETS<br>1416                   | SHEET NO.<br>473 |
|                         | FED. ROAD DIST. NO. 7 ILLINOIS |                                    |                     | CONTRACT NO. 74296<br>FED. AID PROJECT |                  |

EAST EXTENSION WING WALLS  
STRUCTURE NO. 025-2018

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



The Existing Anchor Bolts shall be removed. The remaining bolt holes shall be filled with a nonshrink grout according to Section 1024 of the Standard spec. (cost included with Concrete Removals)

**PLAN**  
(Bottom of Top Slab)

~~~~~ Indicates Epoxy Crack Injection Required.

Note:
The limits of Epoxy Crack Injection shown are approximate. The limits of Crack Injection may vary in the field. Changes in the quantity of Epoxy Crack Injection shall be approved by the Engineer.

BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|-----------------------|------|-------|
| Epoxy Crack Injection | Foot | 70 |

**EXISTING CULVERT
REPAIR DETAILS
STRUCTURE NO. 025-2018**

| | |
|----------|---------------|
| DESIGNED | B.B. |
| CHECKED | C.J.F. |
| DRAWN | J.G. |
| CHECKED | C.J.F. & B.B. |



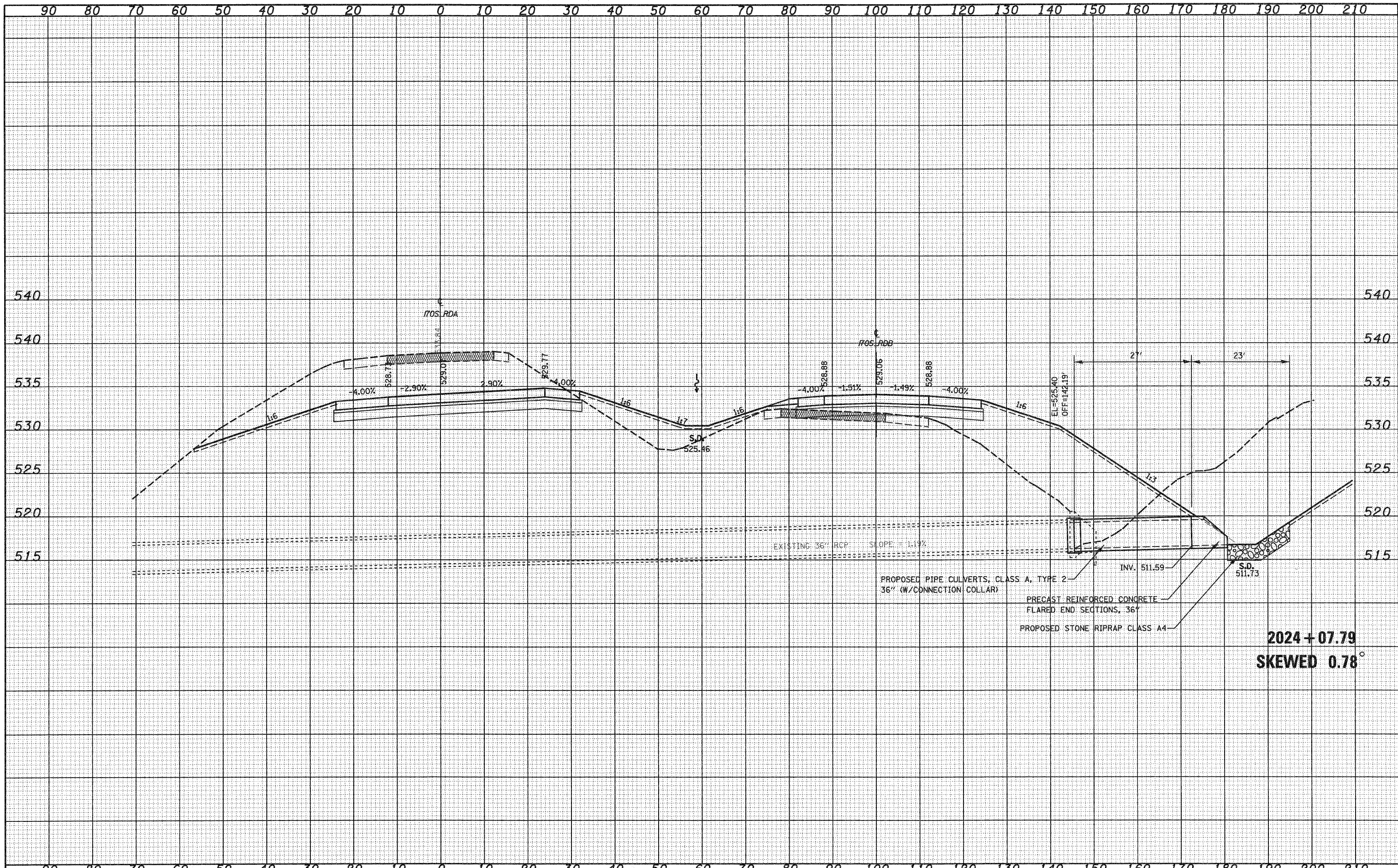
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4965
Fax 618-288-4966

| | | | | | |
|---|-------------|----------|--------------------|--------------|-----------|
| SHEET NO. 8
9 SHEETS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 70 | (25-3)BY | EFFINGHAM | 1416 | 474 |
| SN 025-2018 | | | CONTRACT NO. 74296 | | |
| FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT | | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |

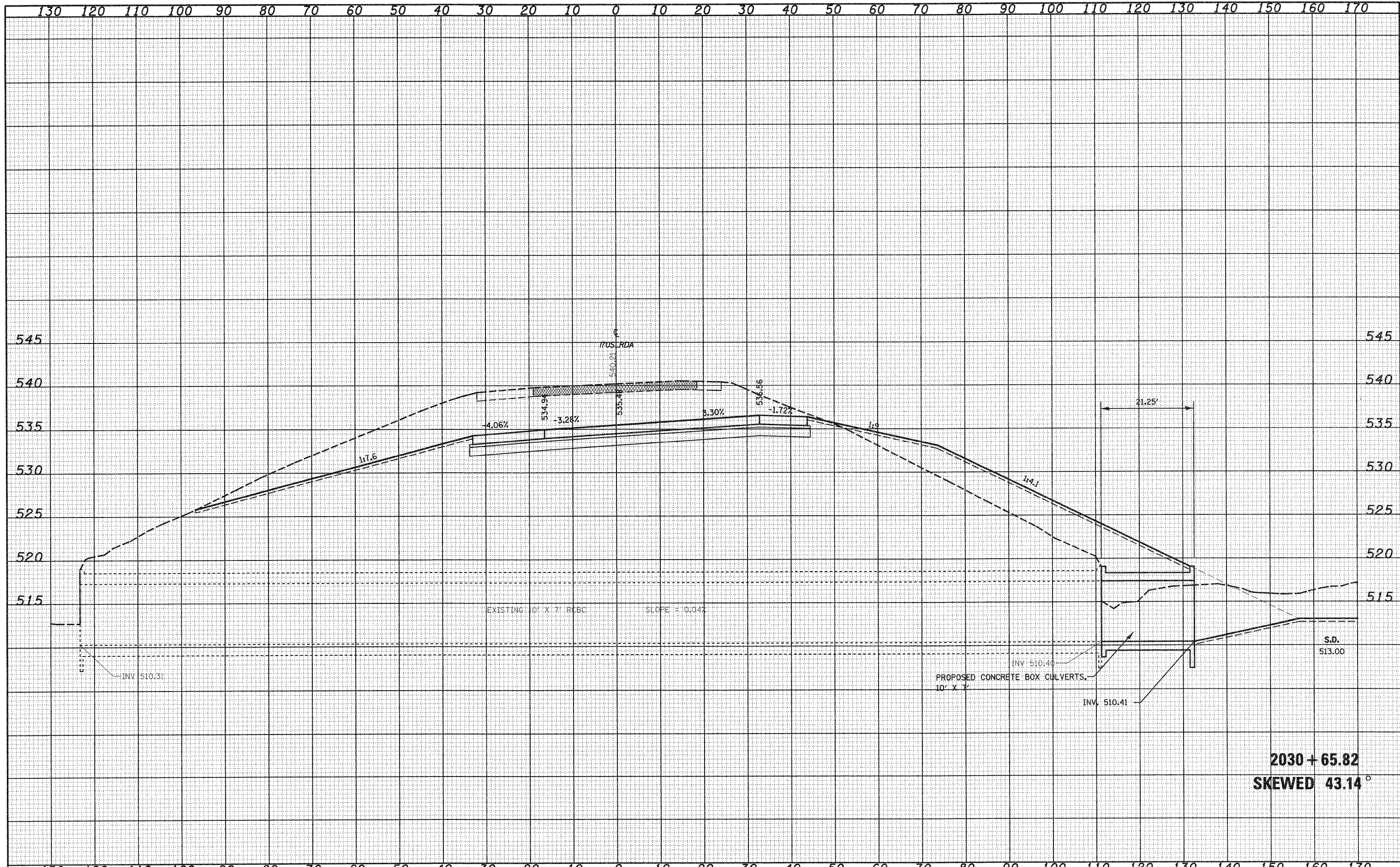
| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |



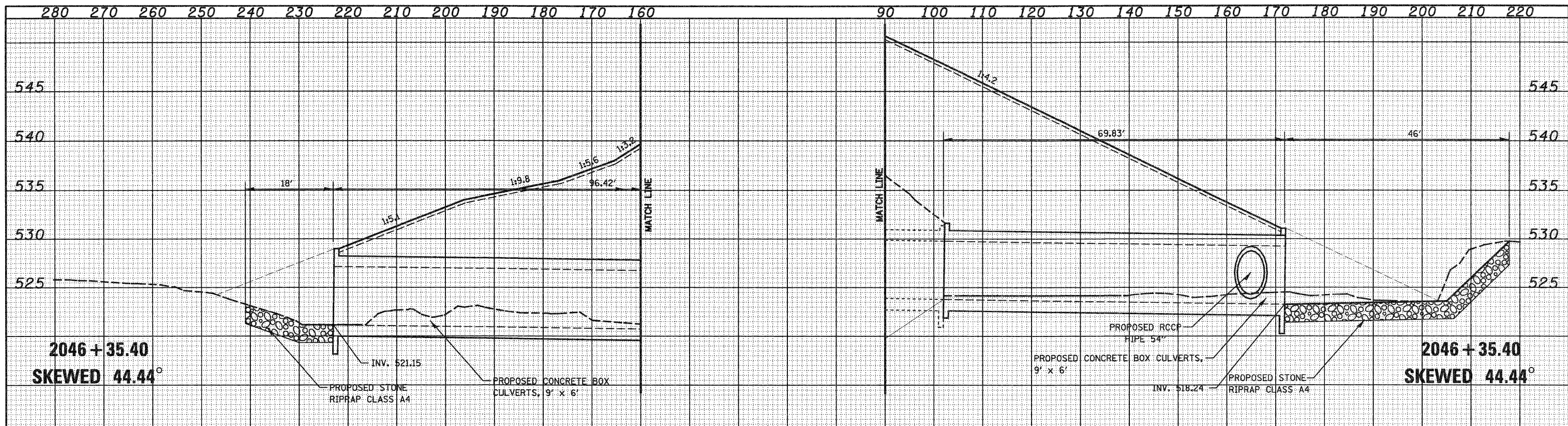
| | | | | | | | | | | | |
|---|-----------------------------|----------------|-----------|---|--|---|---------|--------------------------|--------------|------------------------------------|--|
| FILE NAME = | USER NAME = psul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY A | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| Project: MO 0072.57-70dps TrkVestSubgrpr38Adp | PLOT SCALE = 20,0000' / IN. | DRAWN - LEC | REVISED - | | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 476 | |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | | SCALE: 1"=10' | | SHEET NO. 1 OF 17 SHEETS | | STA. 2015+00.00 TO STA. 2024+07.79 | |
| | | DATE - 2-25-08 | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | CONTRACT NO. 74296 | | | |

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

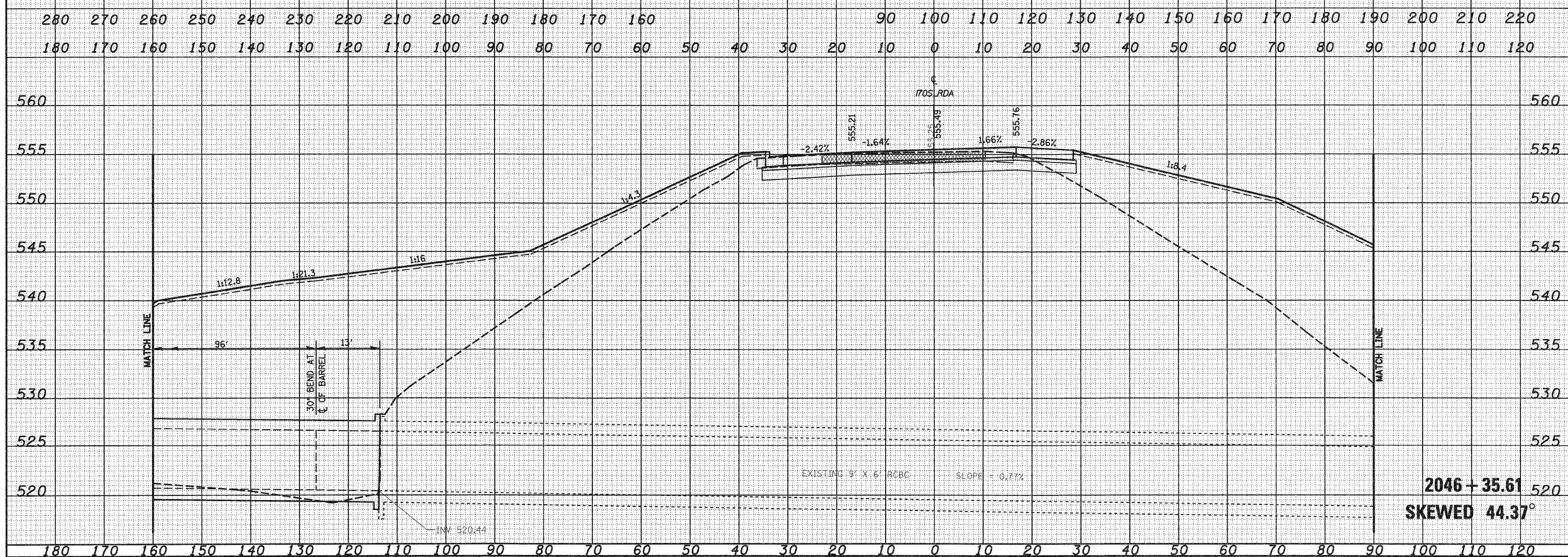
| | | | |
|-----------------|---------------|----|------|
| ORIGINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK | PLOTTED | | |
| NO. | TEMPLATE | | |
| | AREAS CHECKED | | |



DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



FILE NAME = S:\Projects\2008\25-31R\Drawings\Roadway\Profile\2503.dwg
 USER NAME = psul
 PLOT SCALE = 28.0000' / IN.
 PLOT DATE = 2/11/2010

DESIGNED - JWS
 DRAWN - LEC
 CHECKED - BRM
 DATE - 2-25-08

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY A

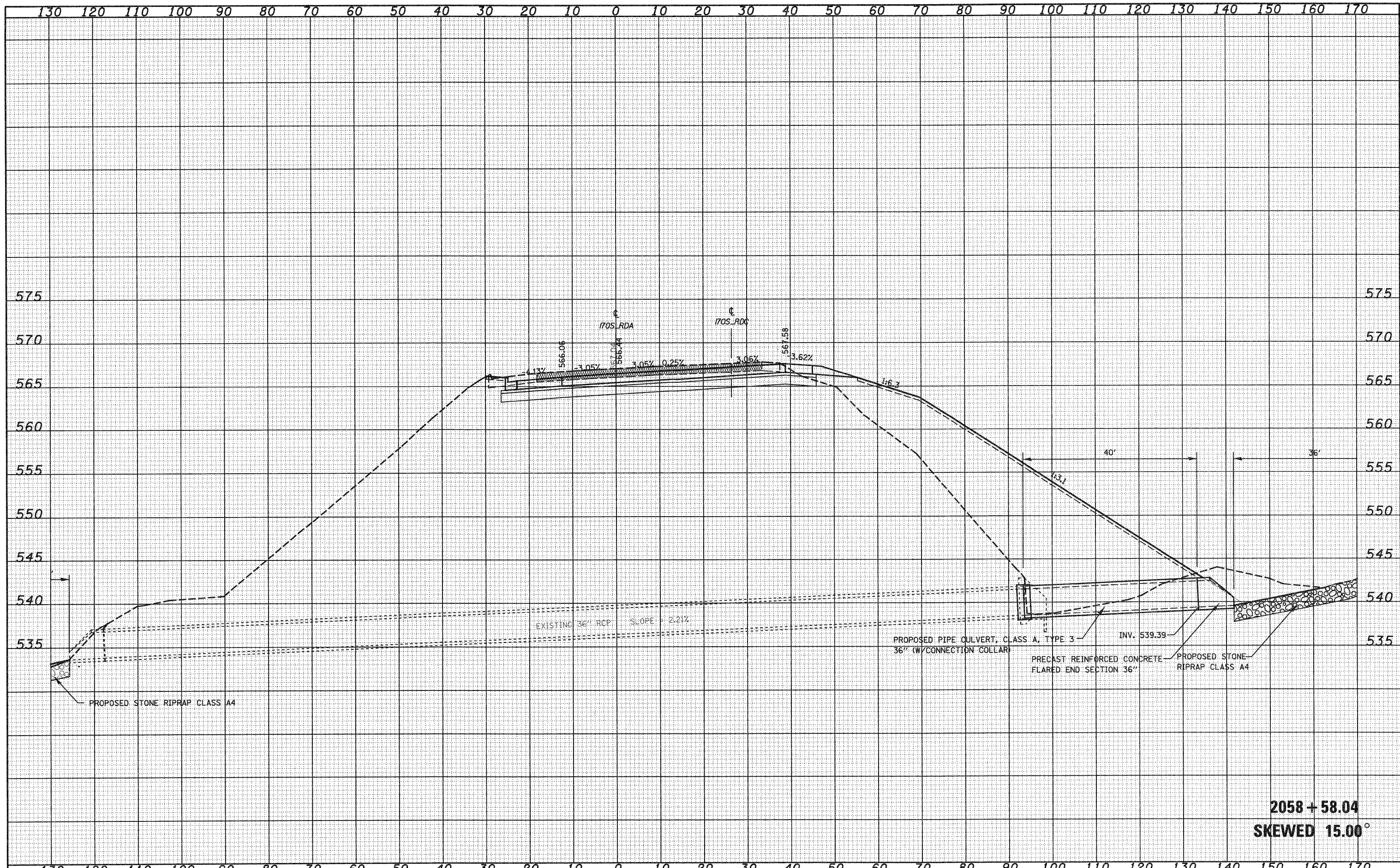
SCALE: 1"=10' SHEET NO. 3 OF 17 SHEETS STA. 2046+35.40 TO STA. 2046+35.40

| F.A.T. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------|-----------|--------------|-----------|
| 57/70 | (25-31R) | EFFINGHAM | 1416 | 478 |
| CONTRACT NO. 74296 | | | | |

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

| | |
|----------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| NO. | |

| | |
|----------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| NO. | |

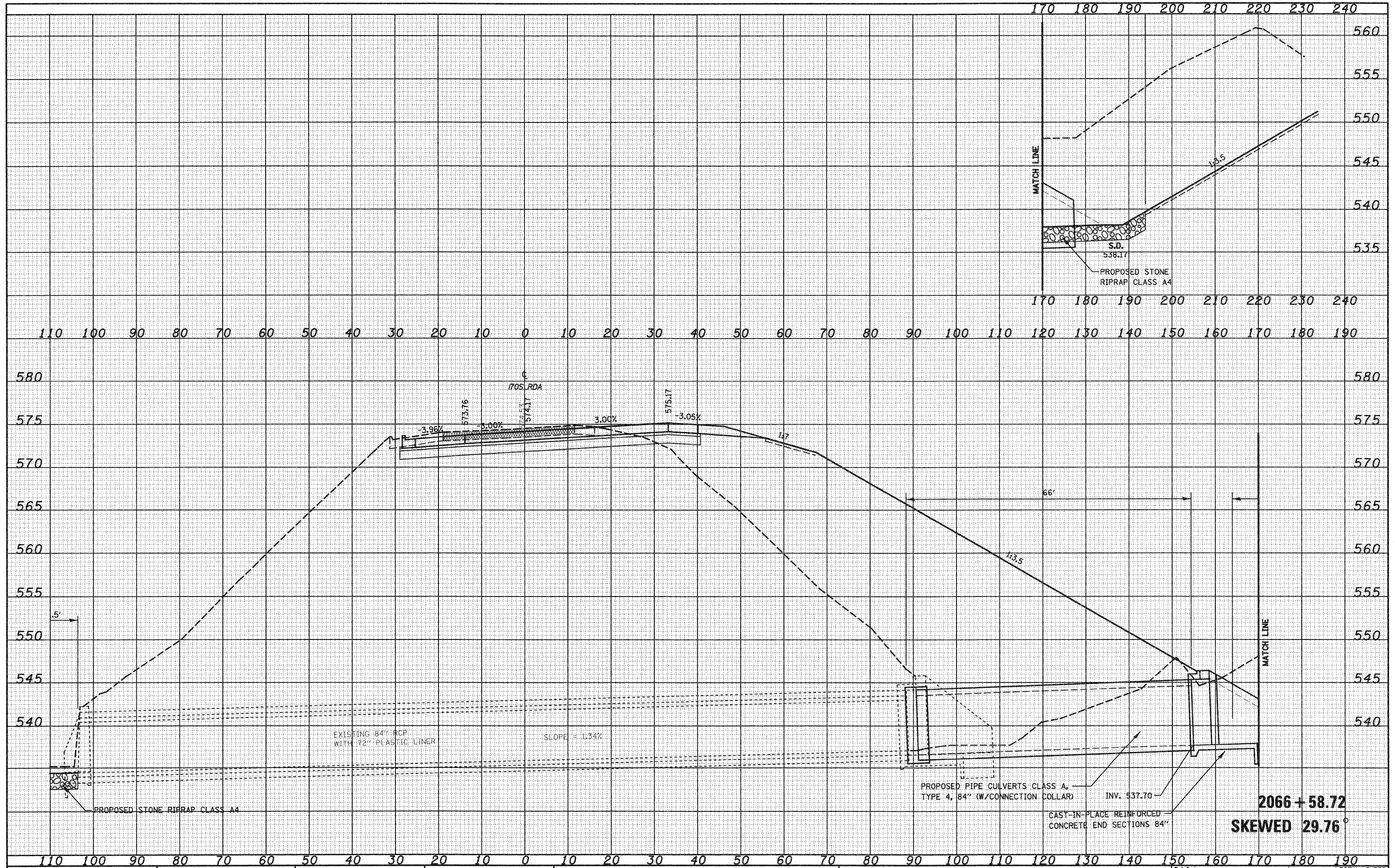


2058 + 58.04
SKEWED 15.00°

| | | | | | | | | | | | | |
|---|------------------------------|----------------|-----------|---|--|--------------------------|------------------------------------|---------------------------|------------------|-------------------|---------------|--|
| FILE NAME = | USER NAME = poul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY A | | F.A.I. RTE. 57/70 | SECTION (25-31R) | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 479 | |
| SAProject\MD\007257\70\p15\In\hsh\cubert\p15\30\Adj | PLOT SCALE = 20,0000 ' / IN. | DRAWN - LEC | REVISED - | | SCALE: 1"=10' | SHEET NO. 4 OF 17 SHEETS | STA. 2058+58.04 TO STA. 2058+58.04 | CONTRACT NO. 74296 | | | | |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |
| | | DATE - 2-25-08 | REVISED - | | | | | | | | | |

| | |
|-----------|--|
| DATE | |
| BY | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |
| FILE NAME | |
| USER NAME | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |

| | |
|-----------|--|
| DATE | |
| BY | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |
| FILE NAME | |
| USER NAME | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |



FILE NAME =
 USER NAME = pau

DESIGNED JWS
 DRAWN LEC
 CHECKED BRM
 DATE 2-25-08

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

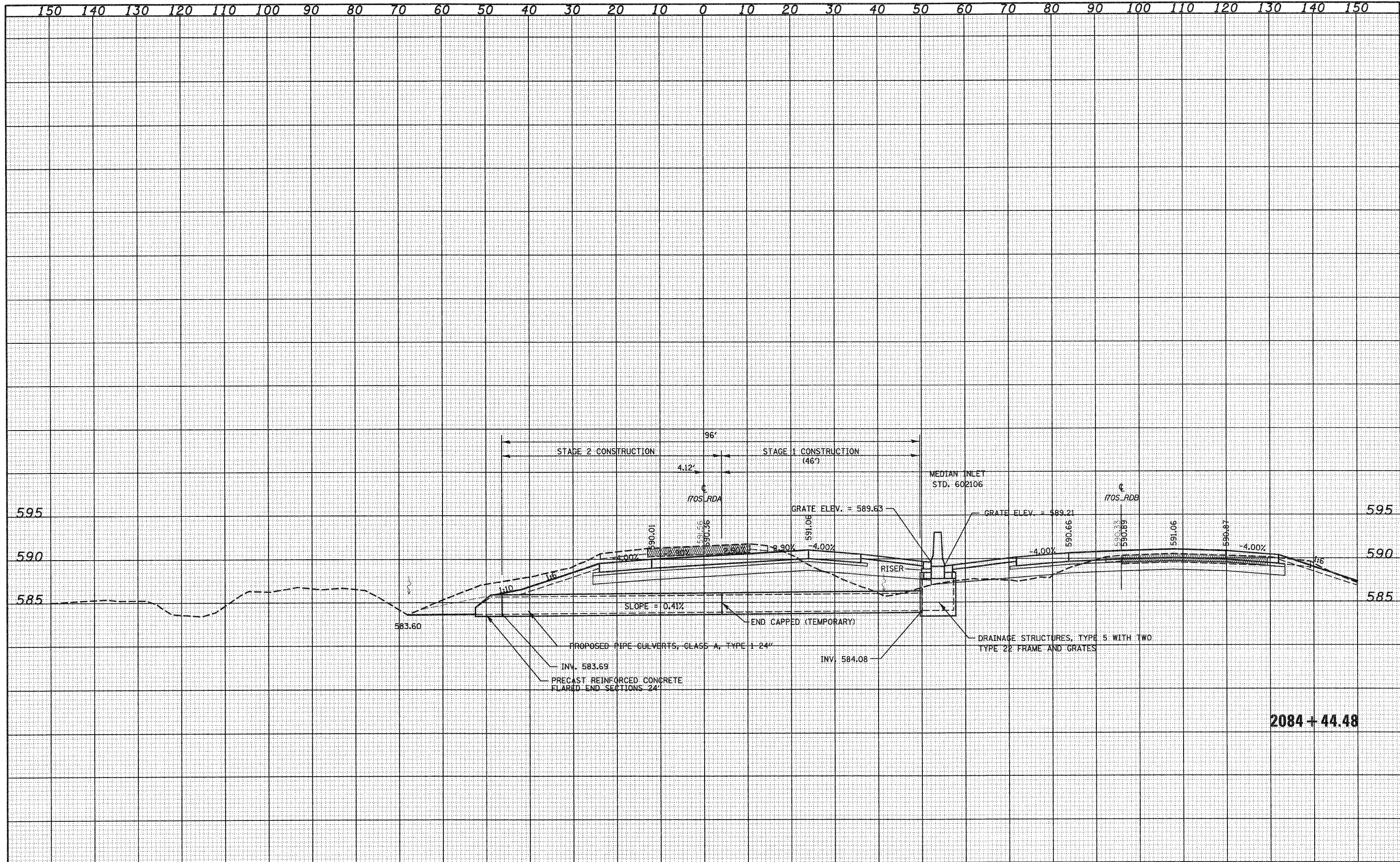
CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY A

SCALE: 1"=10' SHEET NO. 5 OF 17 SHEETS STA. 2066+58.72 TO STA. 2066+58.72

| | | | | |
|----------------------|--------------------|---------------------|---------------------------|------------------|
| F.A.I. RTE.
57/70 | SECTION
(25-3R) | COUNTY
EFFINGHAM | TOTAL SHEETS
1416 | SHEET NO.
480 |
| CONTRACT NO. 74296 | | | ILLINOIS FED. AID PROJECT | |

| | |
|----------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| NO. | |

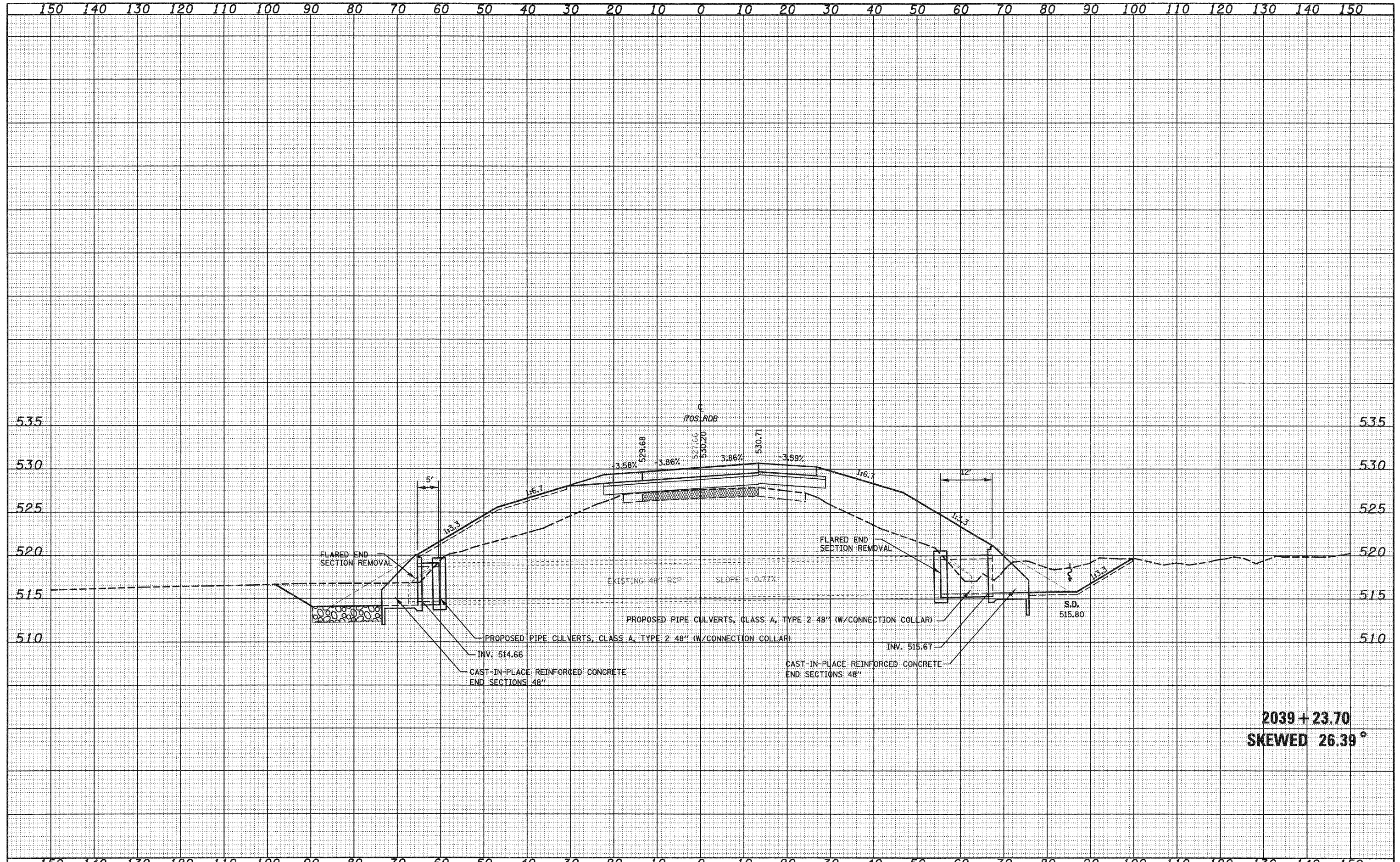
| | |
|----------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| NO. | |



| | | | | | | | | | | | |
|--|-----------------------------|----------------|-----------|---|--|--------------------------|------------------------------------|---------------------------|--------|--------------|-----------|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY A | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SAProject\403\0007257\705\15.1\1.v\vert.culvert\prof\584.dwg | PLOT SCALE = 20.0000' / IN. | DRAWN - LEC | REVISED - | | 57/70 | (25-3R) | EFFINGHAM | 1416 | 481 | | |
| PLOT DATE = 2/11/2018 | DATE - 2-25-08 | CHECKED - BRM | REVISED - | | SCALE: 1"=10' | SHEET NO. 6 OF 17 SHEETS | STA. 2084+44.48 TO STA. 2084+44.48 | CONTRACT NO. 74296 | | | |
| | | DATE - 2-25-08 | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | |

| | |
|--------------|--|
| DATE | |
| BY | |
| DESIGNED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| FINAL SURVEY | |
| NOTE BOOK | |
| NO. | |

| | |
|-----------------|--|
| DATE | |
| BY | |
| DESIGNED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| ORIGINAL SURVEY | |
| NOTE BOOK | |
| NO. | |

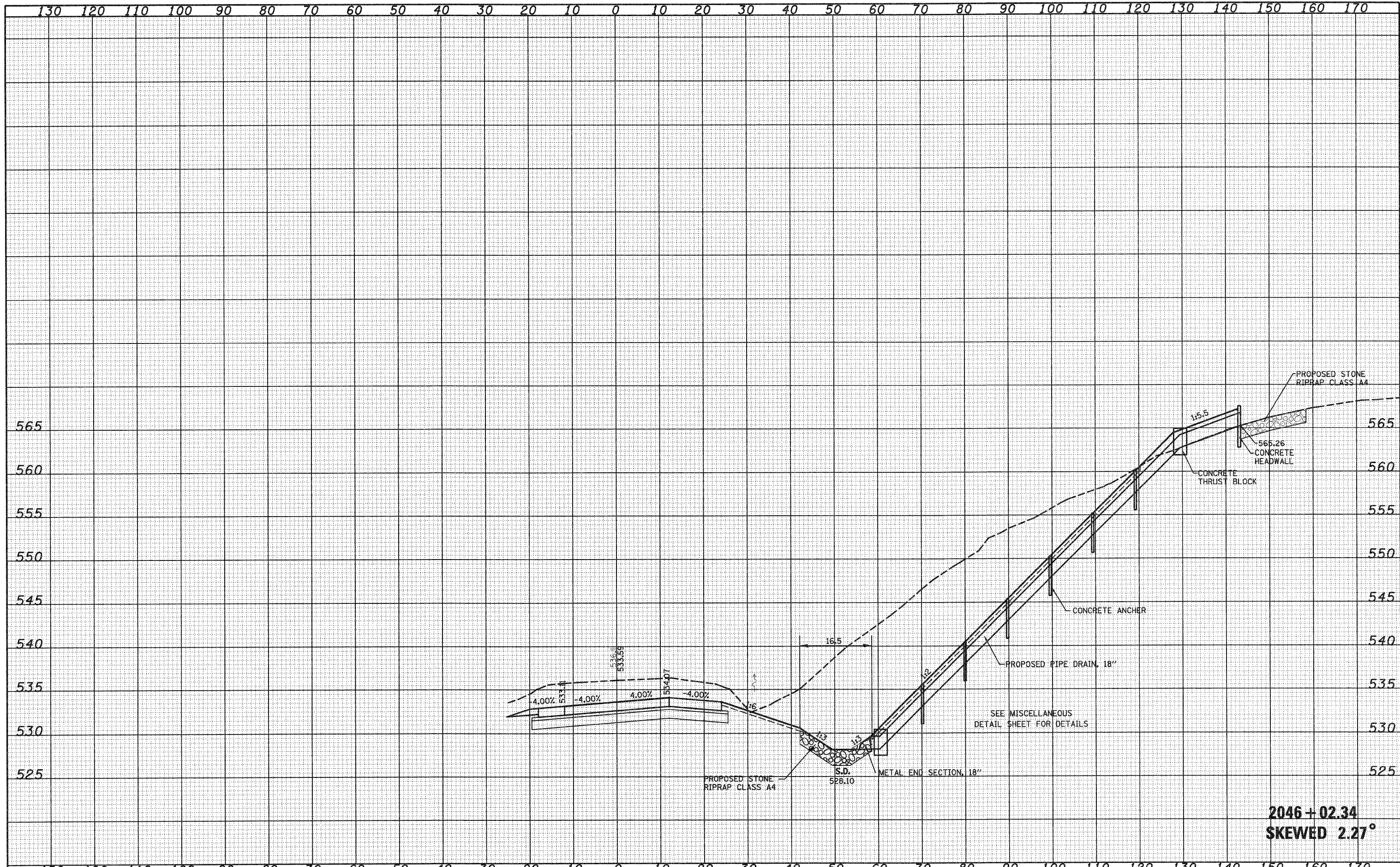


2039 + 23.70
SKEWED 26.39°

| | | | | | | | | | | | | |
|--|------------------|----------------|-----------|---|--|--------------------------|------------------------------------|---------|---------------------------|--------------|-----------|-----|
| FILE NAME = | USER NAME = poui | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY B | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 3:\Projects\03-0007-57-70\dwg\5 TriLevelCulvertProfile.dwg | | DRAWN - LEC | REVISED - | | SCALE: 1"=10' | SHEET NO. 7 OF 17 SHEETS | STA. 2039+23.70 TO STA. 2039+23.70 | 57/70 | (25-3)R | EFFINGHAM | 1416 | 482 |
| | | CHECKED - BRM | REVISED - | | CONTRACT NO. 74296 | | FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |
| | | DATE - 2-25-08 | REVISED - | | | | | | | | | |

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

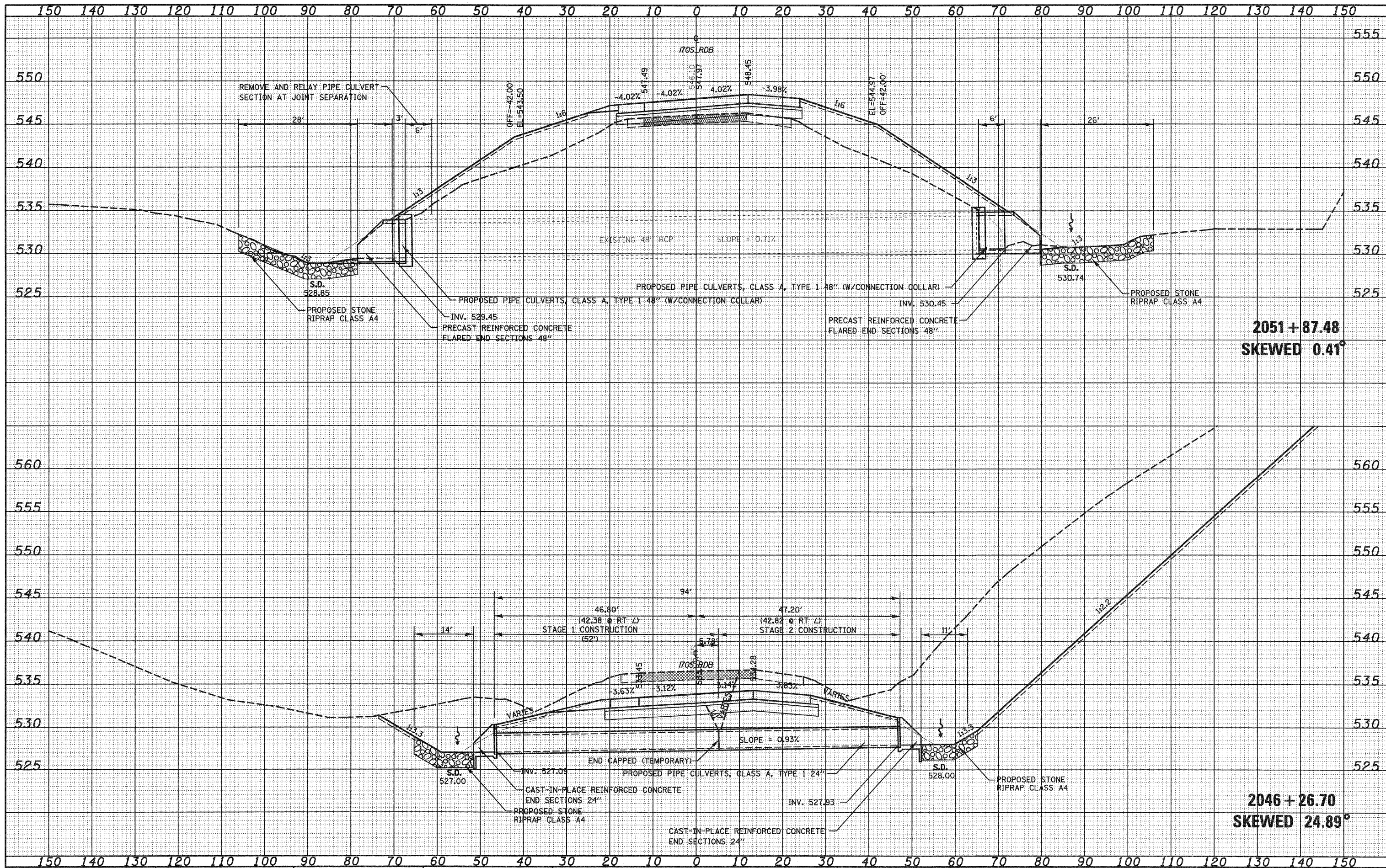


2046+02.34
 SKEWED 2.27°

| | | | | | | | | | | | | |
|--|-----------------------------|----------------|-----------|---|--|--------------------------|------------------------------------|--------------------|------------------|-------------------|---------------|--|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY B | | F.A.I. RTE. 57/70 | SECTION (25-3)R | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 483 | |
| S:\Projects\403-00072-57-70\dgn\5 Trill.v\kash.cuwer\tpof15R08.dgn | PLOT SCALE = 20,0000' / IN. | DRAWN - MAB | REVISED - | | SCALE: 1"=10' | SHEET NO. 8 OF 17 SHEETS | STA. 2046+02.34 TO STA. 2046+02.34 | CONTRACT NO. 74296 | | | | |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |
| | | DATE - 2-25-08 | REVISED - | | | | | | | | | |

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

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



2051 + 87.48
SKewed 0.41°

2046 + 26.70
SKewed 24.89°

FILE NAME =
S:\Project\MS 0072.57-7\rdg\5\Tnd\work\culvert\9300.dgn

USER NAME = pau
PLOT SCALE = 28.0000' / IN.
PLOT DATE = 2/11/2010

DESIGNED - JWS
DRAWN - LEC
CHECKED - BRM
DATE - 2-25-08

REVISED -
REVISED -
REVISED -
REVISED -

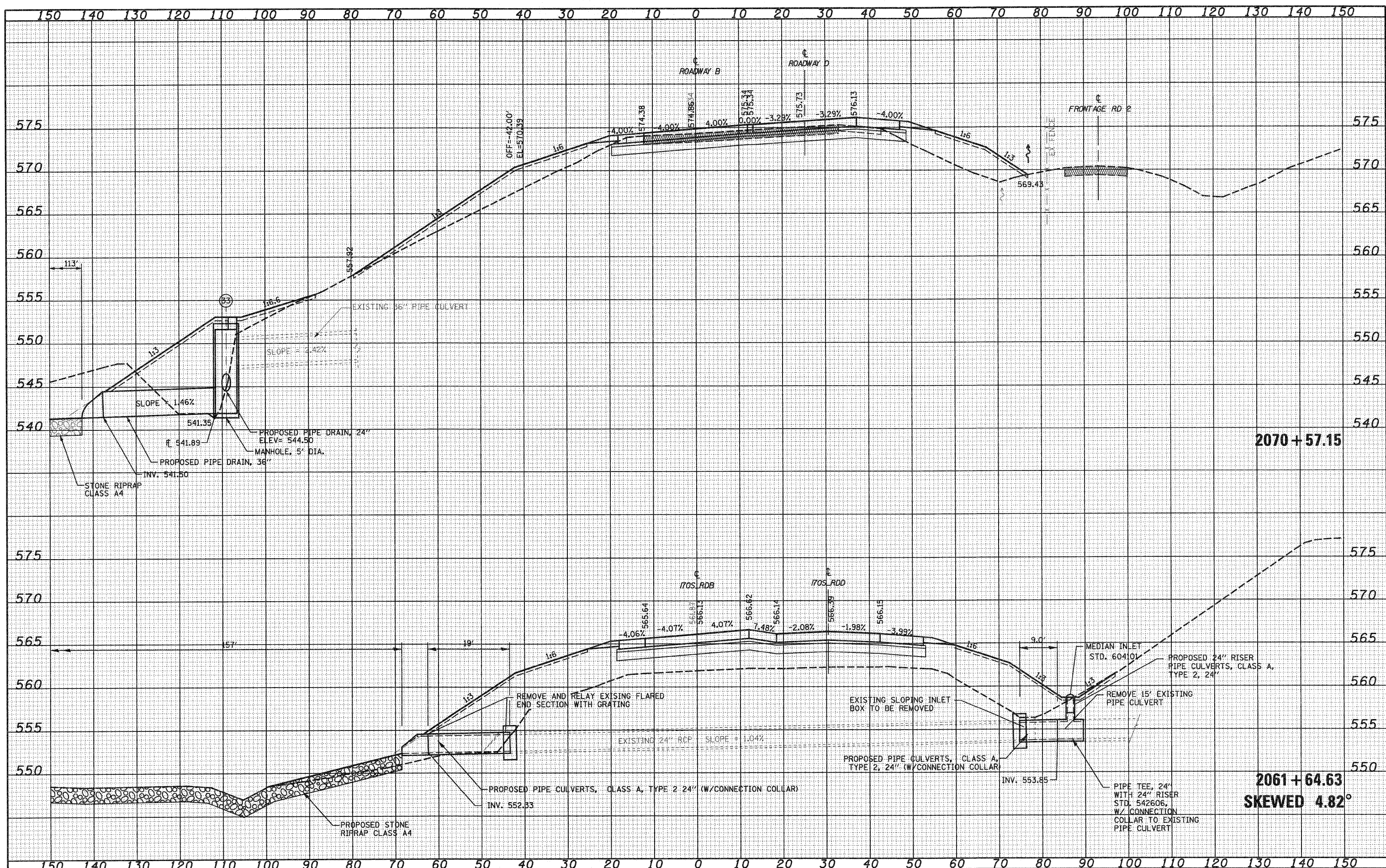
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY B
SCALE: 1"=10'
SHEET NO. 9 OF 17 SHEETS
STA. 2046+26.70 TO STA. 2051+87.48

| | | | | |
|---|---------|-----------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 57/70 | (25-3)R | EFFINGHAM | 1416 | 484 |
| CONTRACT NO. 74296 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

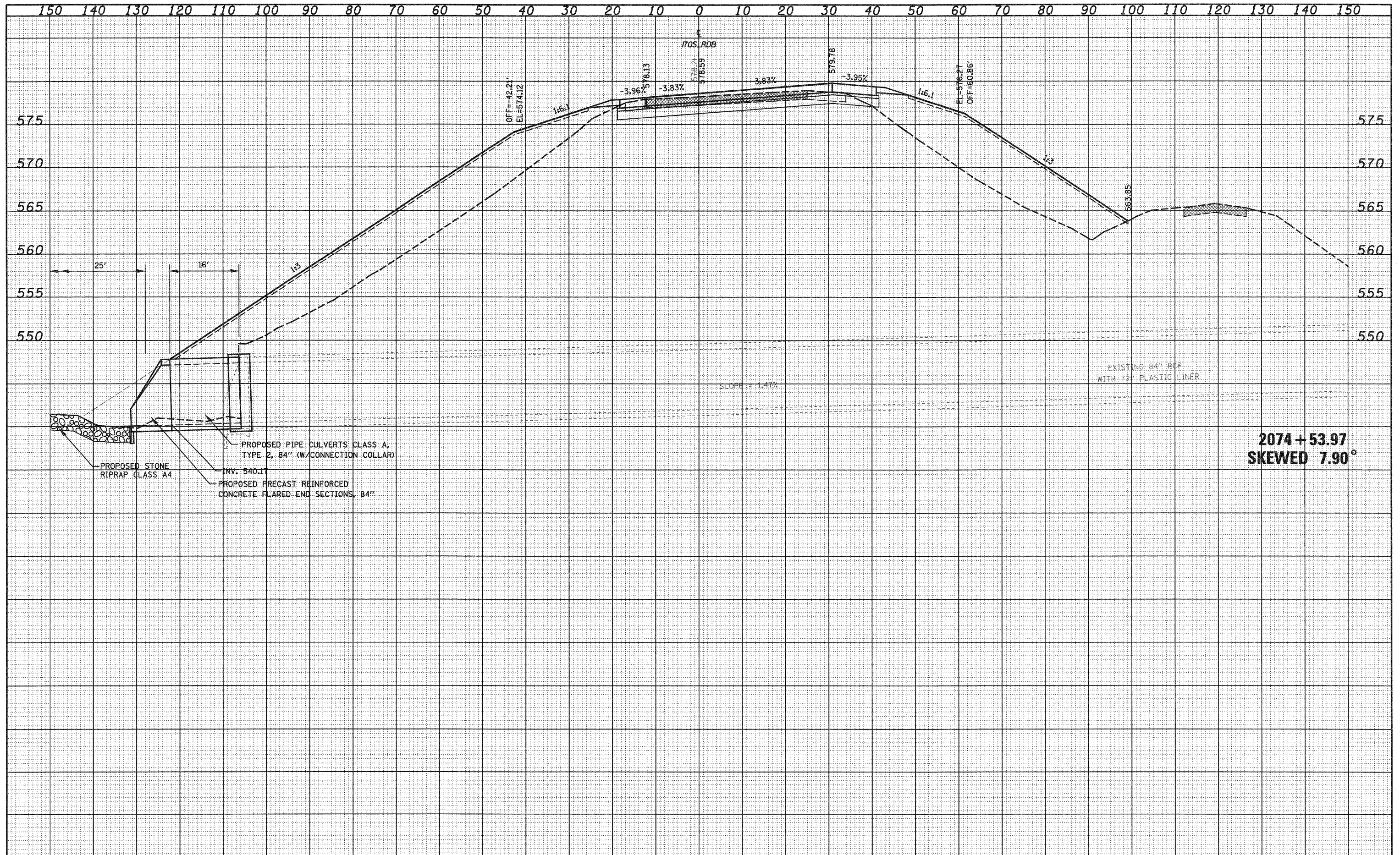
| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |



| | | | | | | | | | | | |
|---|-----------------------------|----------------|-----------|---|--|-------------------|---------------------------|------------------------------------|---------------------|---------------------------|--------------------|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY B | F.A.I. RTE. 57/70 | SECTION (25-3)R | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 485 | |
| SAProject\03\002\57-70\p15.tbl\ink\culvert\0308.dwg | PLOT SCALE = 20,0000' / IN. | DRAWN - LEC | REVISED - | | | SCALE: 1"=10' | SHEET NO. 10 OF 17 SHEETS | STA. 2061+64.63 TO STA. 2070+57.15 | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. 74296 |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | | | | | | | |
| | | DATE - 2-25-08 | REVISED - | | | | | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| FINAL SURVEY | |
| PLANNED | |
| TEMP | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| PLANNED | |
| TEMP | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

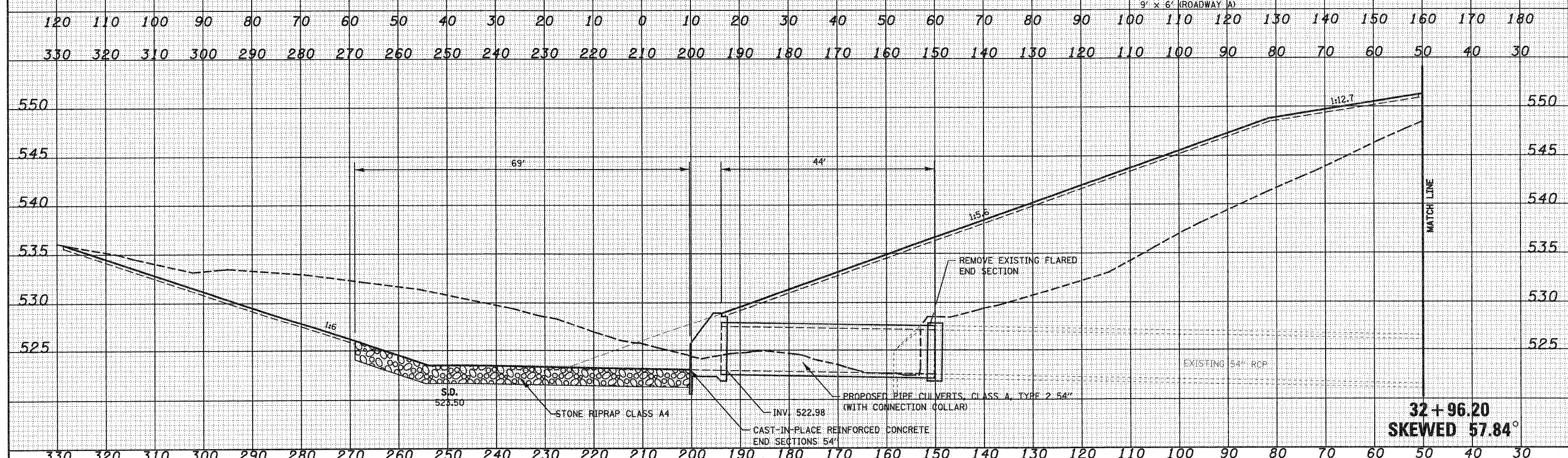
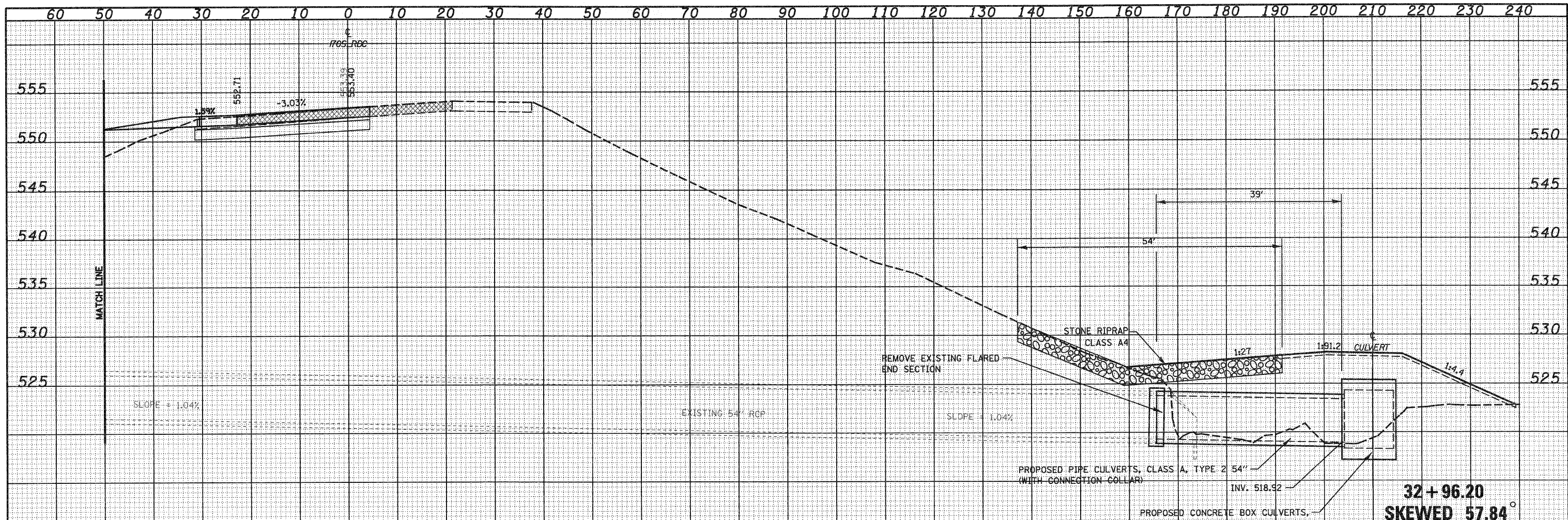


**2074 + 53.97
SKEWED 7.90°**

| | | | | | | | | | | | | |
|---|-----------------------------|----------------|-----------|---|--|---------|-----------|--------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY B | | | F.A.T. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PROJECT: 143-1000(2.5)-700p/S TriLevel.culvert.profiles.dwg | PLOT SCALE = 20.0000" / IN. | DRAWN - LEC | REVISED - | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 486 | | | |
| PLOT DATE = 2/11/2010 | DATE - 2-25-08 | CHECKED - BRM | REVISED - | | SCALE: 1"=10' SHEET NO. 11 OF 17 SHEETS STA. 2074+53.97 TO STA. 2074+53.97 | | | CONTRACT NO. 74296 | | | | |
| | | DATE - 2-25-08 | REVISED - | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |

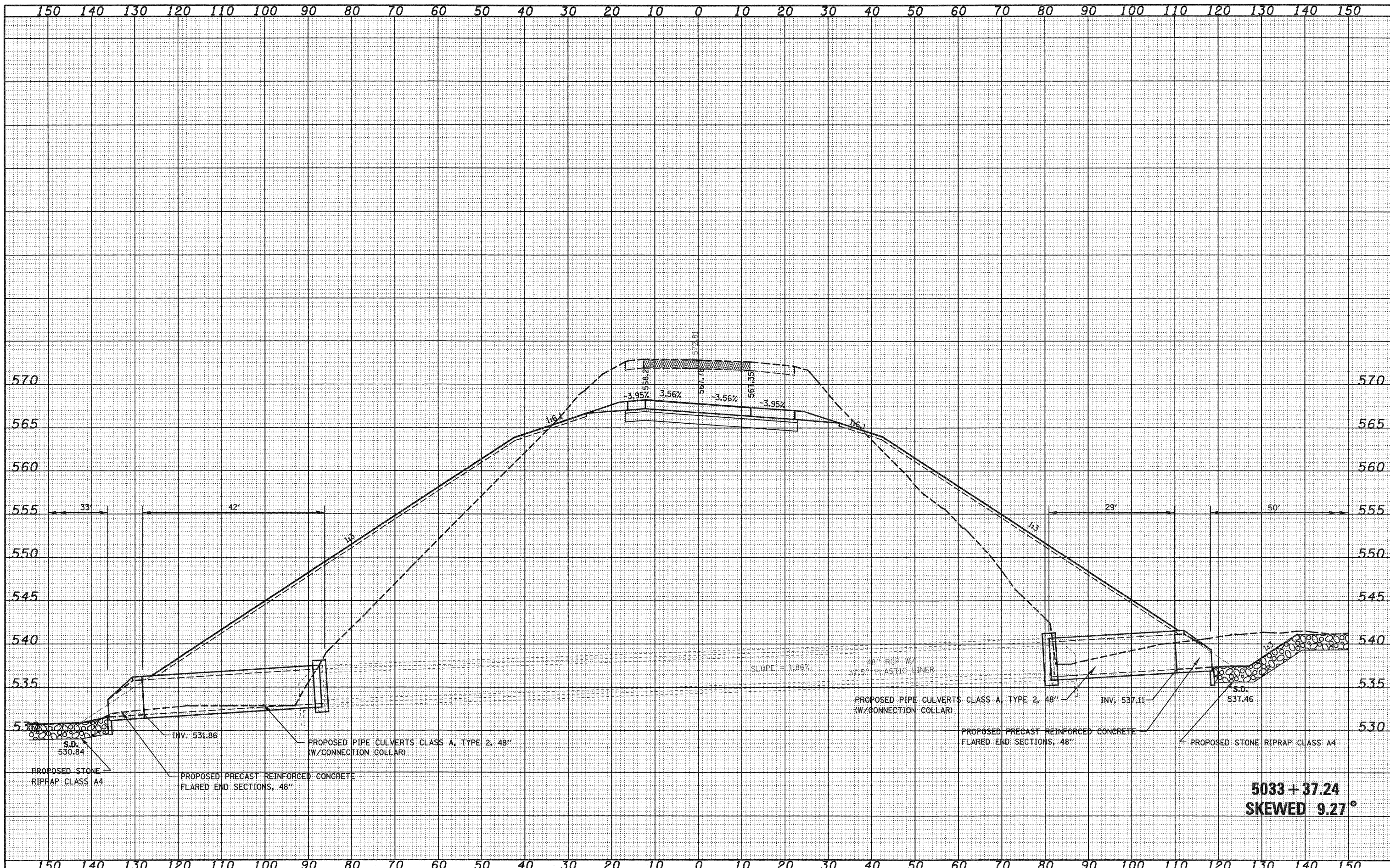
| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |



| | | | | | | | | | | | |
|---|------------------------------|----------------|-----------|---|--|-------------------|---------------------------|--------------------------------|---|--------------------|--|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY C | F.A.I. RTE. 57/70 | SECTION (25-3)R | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 487 | |
| SAProjects\43\0007257\Roadway C In\A\work\end\end\300.dwg | PLOT SCALE = 28,00000' / IN. | DRAWN - LEC | REVISED - | | | SCALE: 1"=10' | SHEET NO. 12 OF 17 SHEETS | STA. 32+96.20 TO STA. 32+96.20 | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | CONTRACT NO. 74296 | |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | | | | | | | |
| | | DATE - 2-25-08 | REVISED - | | | | | | | | |

| | |
|-----------|--|
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |

| | |
|-----------|--|
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |

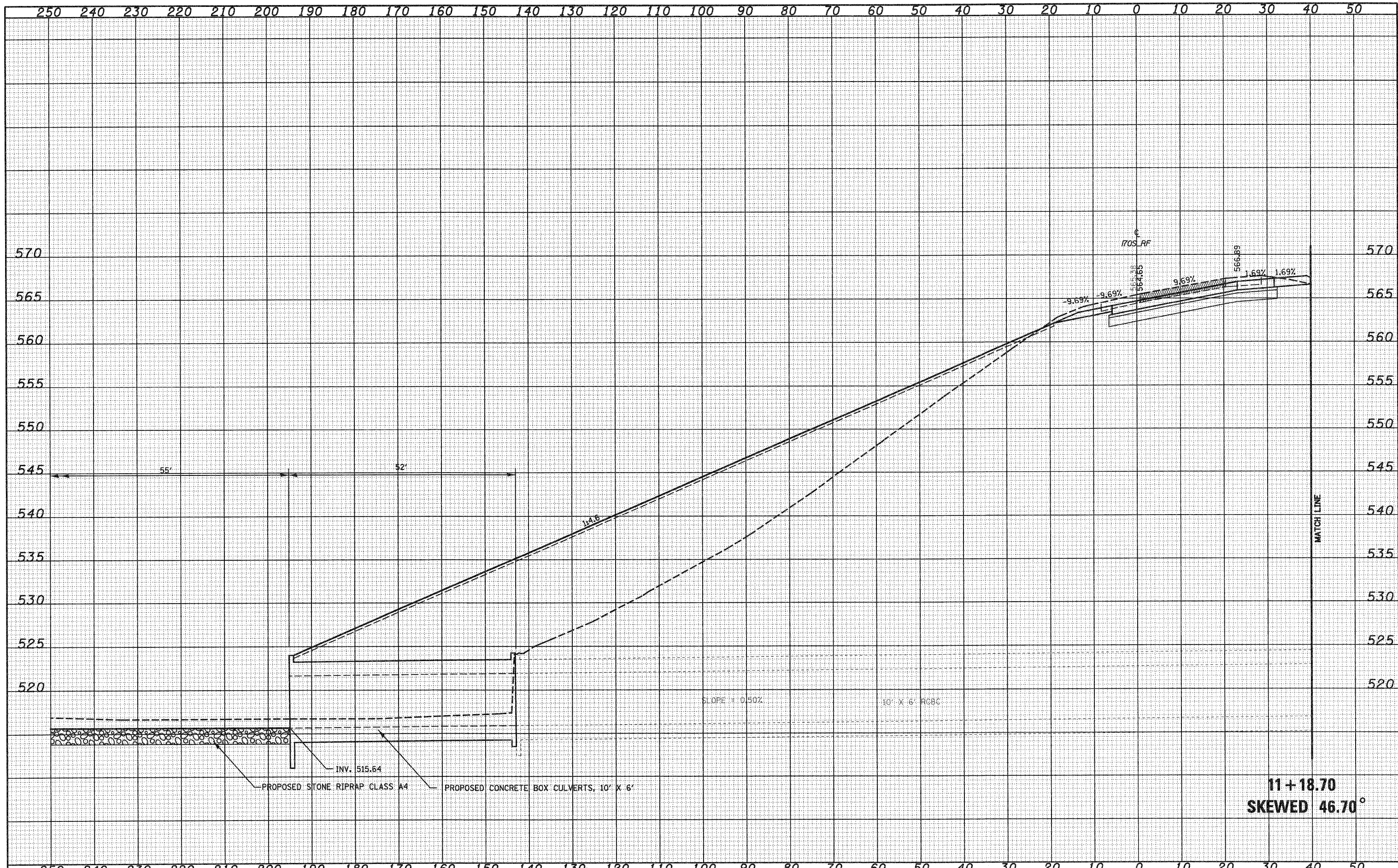


5033+37.24
SKewed 9.27°

| | | | | | | | | | | | |
|---|-----------------------------|----------------|-----------|---|--|---------------------------|------------------------------------|---------------------|---------------------------|--------------------|---------------|
| FILE NAME = | USER NAME = pau | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL ROADWAY D | | F.A.I. RTE. 57/70 | SECTION (24-31R) | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 488 |
| SAProject\MD\00757\TJdy\5 In\Task\cubert\prof\300.dwg | PLOT SCALE = 20,0000' / IN. | DRAWN - LEC | REVISED - | | SCALE: 1"=10' | SHEET NO. 13 OF 17 SHEETS | STA. 5033+37.24 TO STA. 5033+37.24 | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. 74296 | |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | | | | | | | |
| | | DATE - 2-25-08 | REVISED - | | | | | | | | |

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

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

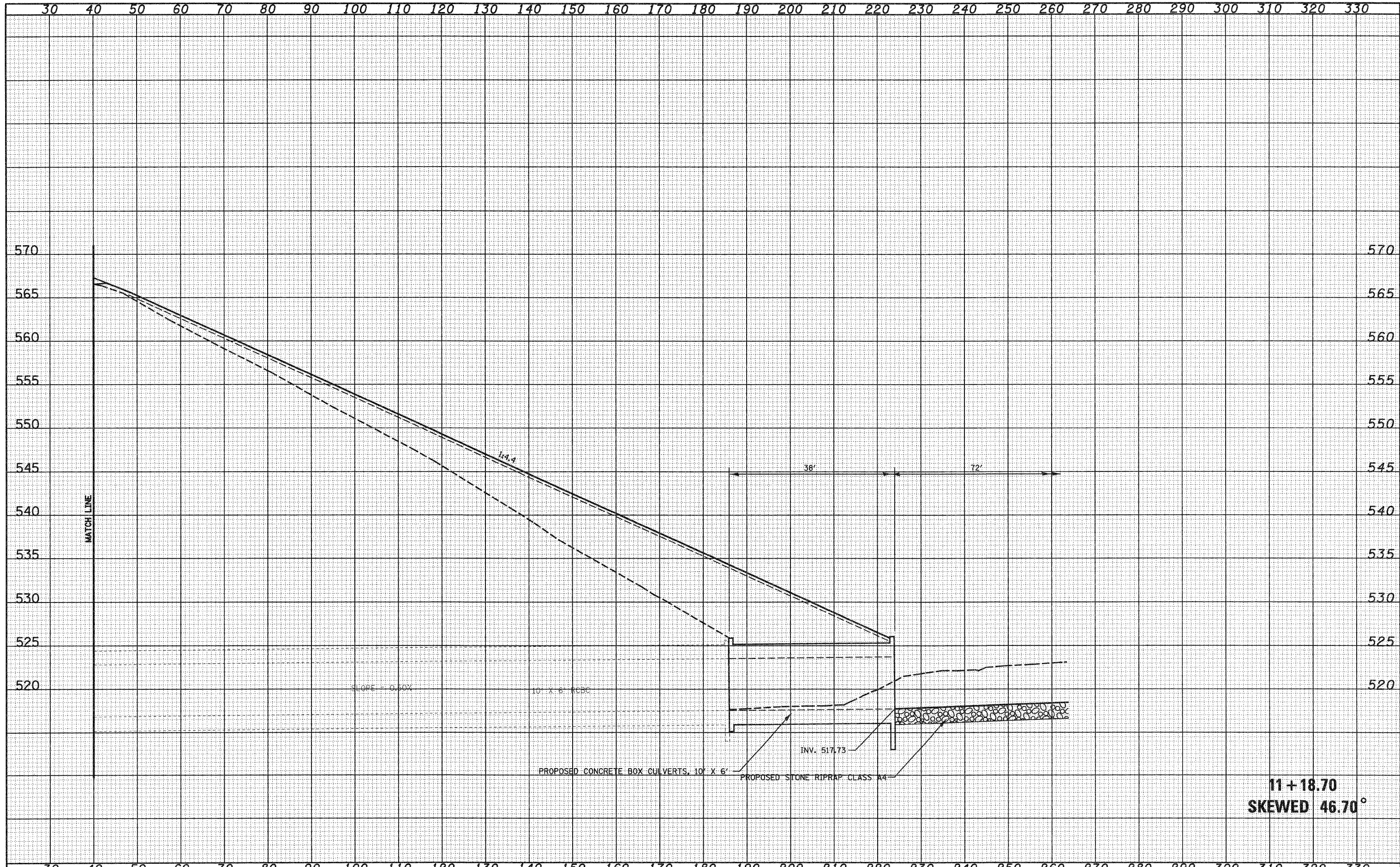


11+18.70
SKewed 46.70°

| | | | | | | | | | | | | | | |
|---------------------------------|-----------------|----------------|-----------|---|---|--|---|---------|---------------------------|--------------|--------------------------------|--|--------------------|--|
| FILE NAME - | USER NAME = pou | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL RAMP F | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
| S:\Projects\1102257\1102257.dwg | | DRAWN - LEC | REVISED - | | | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 489 | | | |
| PLOT SCALE = 20,0000' / IN. | | CHECKED - BRM | REVISED - | | | | SCALE: 1"=10' | | SHEET NO. 14 OF 17 SHEETS | | STA. 11+18.32 TO STA. 11+18.32 | | CONTRACT NO. 74296 | |
| PLOT DATE = 2/11/2010 | | DATE - 2-25-08 | REVISED - | | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |

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

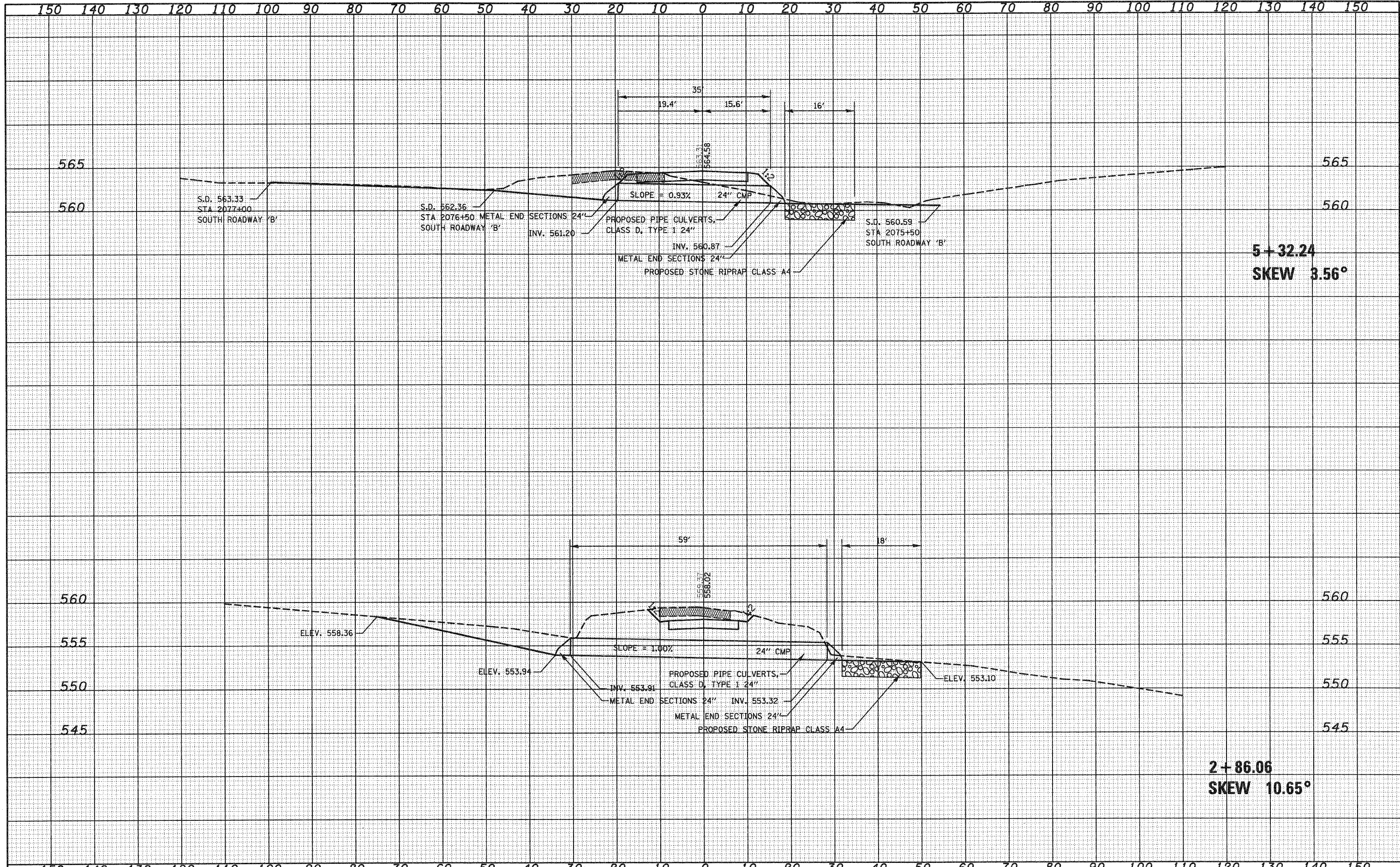
| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |



| | | | | | | | | | | | | | |
|--|------------------|----------------|-----------|---|---|---------------------------|--------------------------------|---------------------|---------------------------|-----------|--------------|-----------|--------------------|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, SOUTH TRI LEVEL RAMP F | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 20Project\M3\B072.57\11d\15 TriLevelSubgrade.dwg | | DRAWN - LEC | REVISED - | | SCALE: 1"=10' | SHEET NO. 15 OF 17 SHEETS | STA. 11+18.32 TO STA. 11+18.32 | 57/70 | (25-3)R | EFFINGHAM | 1416 | 490 | |
| | | CHECKED - BRM | REVISED - | | | | | | | | | | |
| | | DATE - 2+25+08 | REVISED - | | | | | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | | CONTRACT NO. 74296 |

| | |
|----------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| NO. | |

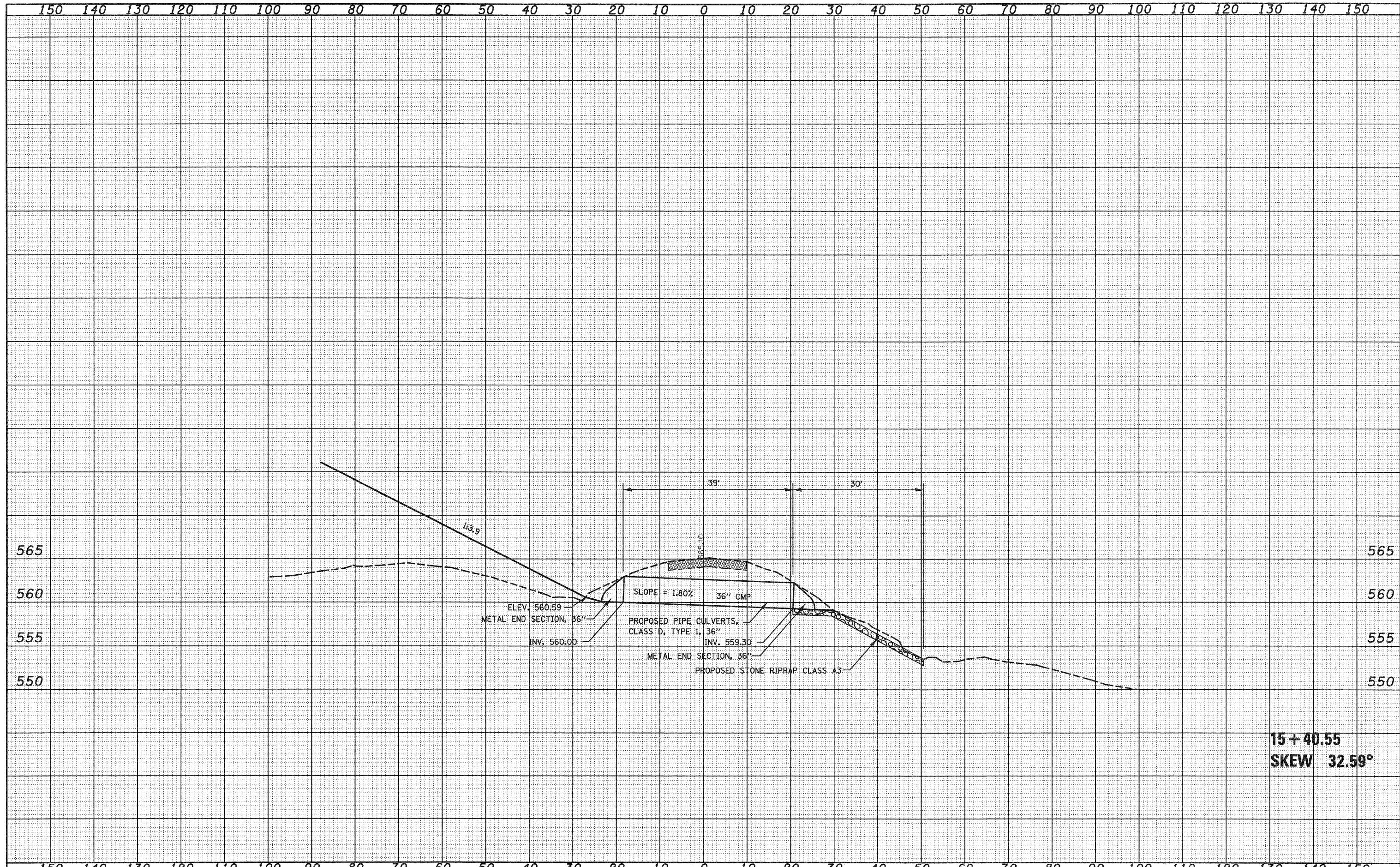
| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| NO. | |



| | | | | | | | | | | | |
|---|------------------------------|----------------|-----------|---|--|---------------------------|------------------------------|---|------------------|--------------------|---------------|
| FILE NAME = | USER NAME = poul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT SECTION PROFILES, FRONTAGE ROAD 1 | | F.A.J. RTE. 57/70 | SECTION (25-3)R | COUNTY EFFINGHAM | TOTAL SHEETS 1416 | SHEET NO. 491 |
| SAProject\M03-2007\25-3R\Drawings\FrontageRoad1.dwg | PLOT SCALE = 20,0000 ' / IN. | DRAWN - LEC | REVISED - | | SCALE: 1"=10' | SHEET NO. 16 OF 17 SHEETS | STA. 2+86.06 TO STA. 5+32.24 | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | CONTRACT NO. 74296 | |
| | PLOT DATE = 2/11/2010 | CHECKED - BRM | REVISED - | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | |

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

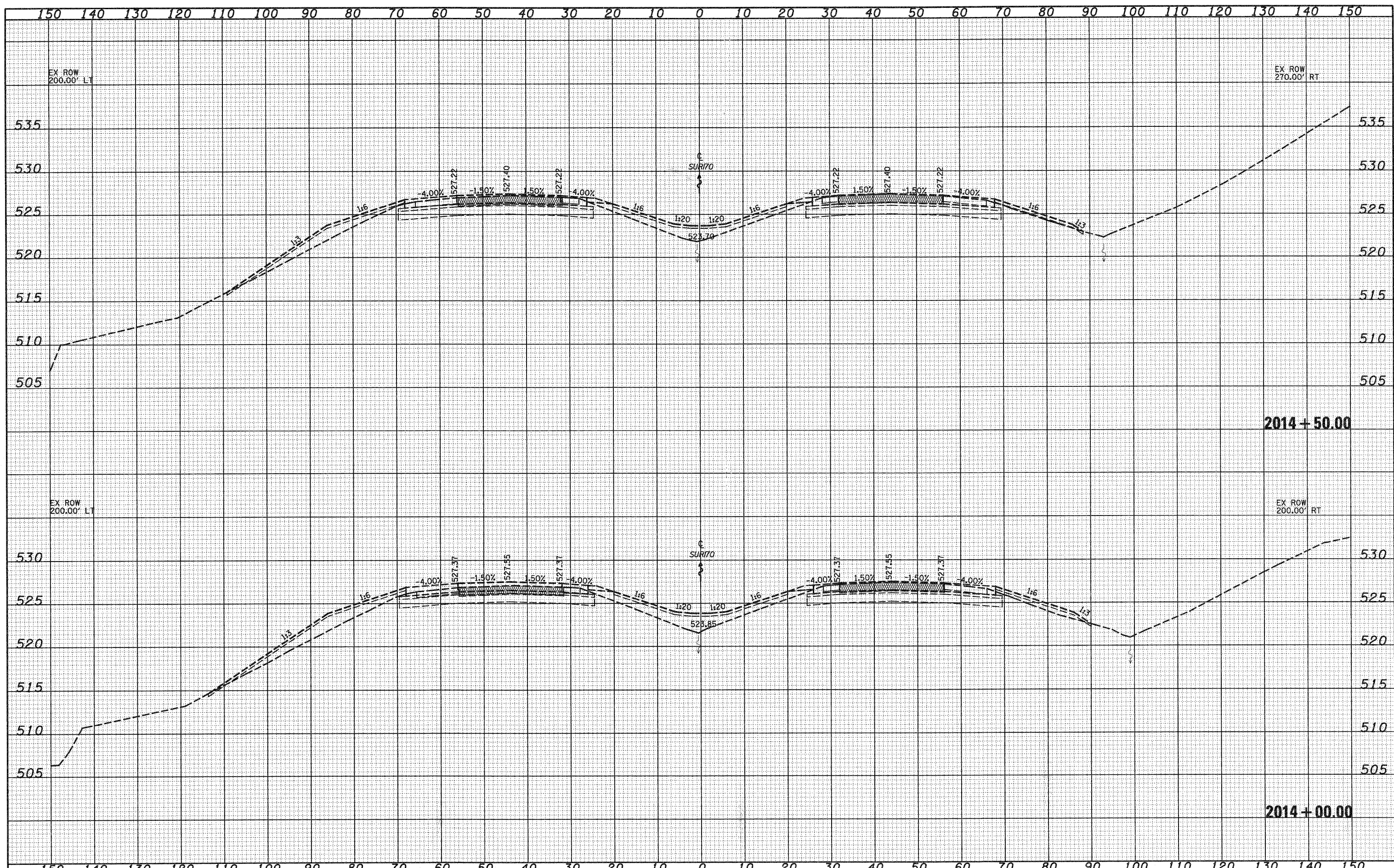
| | |
|-----------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| CHECKED | |
| ORIGINAL SURVEY | |
| NOTE BOOK | |
| NO. | |



| | | | | | | | | | | | | |
|--|------------------------------|----------------|-----------|---|--|---------------------------|--------------------------------|---------|-----------|--------------|-----------|-----|
| FILE NAME = | USER NAME = paul | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CULVERT PROFILES, FRONTAGE ROAD 2 | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 50\Projects\MD 0072.57\04dps15\Task\FR02.dwg | PLOT SCALE = 20.00000' / IN. | DRAWN - LEC | REVISED - | | SCALE: 1"=10' | SHEET NO. 17 OF 17 SHEETS | STA. 15+40.55 TO STA. 15+40.55 | 57/70 | (25-3,4)R | EFFINGHAM | 1416 | 492 |
| PLOT DATE = 2/11/2010 | DATE - | CHECKED - BRM | REVISED - | | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. 74296 | | | | | |
| | | DATE - | REVISED - | | | | | | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| NOTE BOOK | |
| AREAS CHECKED | |

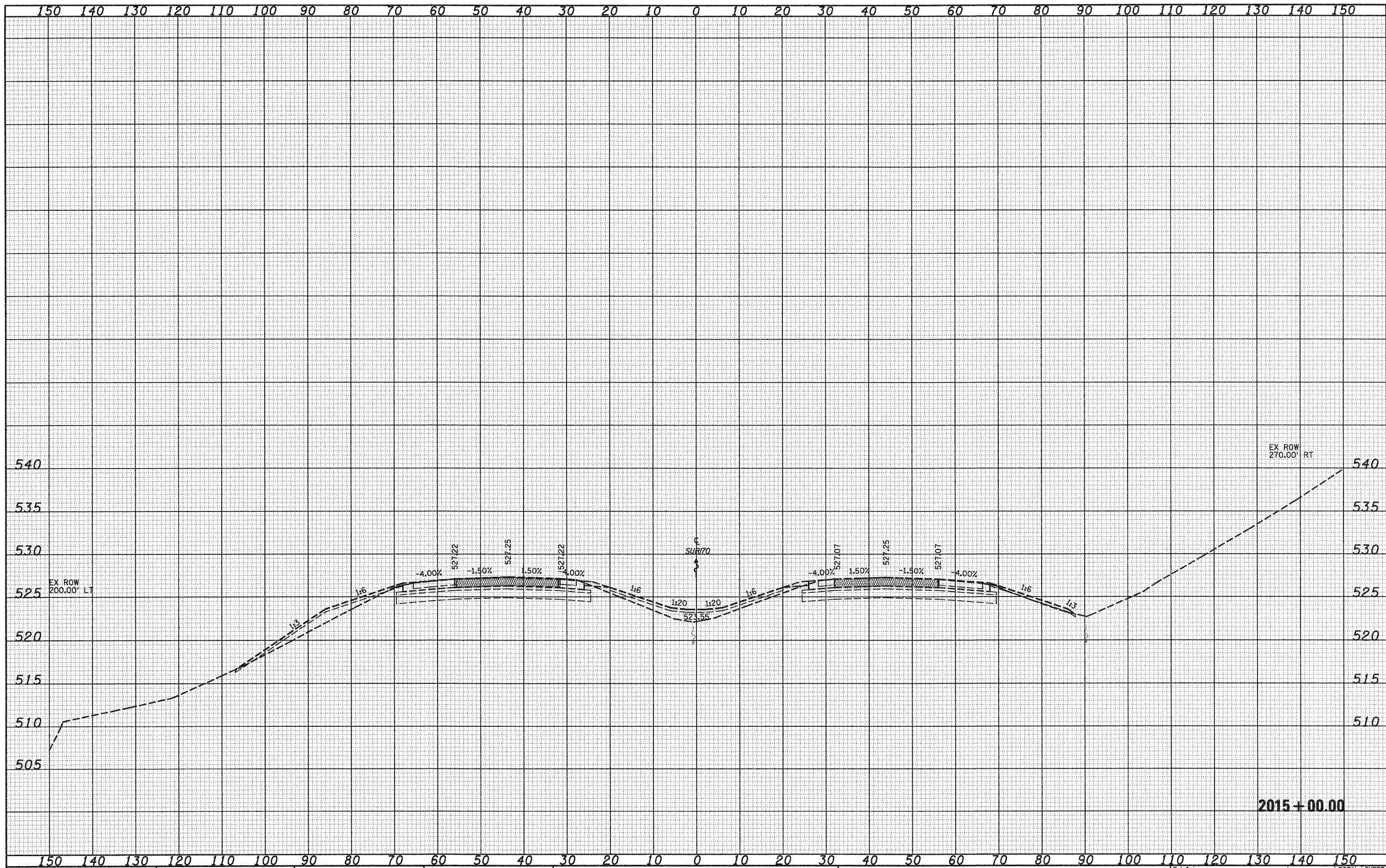
| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| PLOTTED | |
| TEMPLATE | |
| NOTE BOOK | |
| AREAS CHECKED | |



| | | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-----------|---|--------------------------------------|--------------------|---------|-------------------------|--------------|------------------------------------|--|
| FILE NAME = | USER NAME = lunda | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS - FAI ROUTE 70 | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 2/Project/MS-000257-70.dgn | | DRAWN - LEC | REVISED - | | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 493 | |
| PLOT SCALE = 20,0000' / IN. | | CHECKED - BRM | REVISED - | | | CONTRACT NO. 74296 | | | | | |
| PLOT DATE = 2/9/2010 | | DATE - 2-25-08 | REVISED - | | | SCALE: 1"=10' | | SHEET NO. 1 OF 2 SHEETS | | STA. 2014+00.00 TO STA. 2014+50.00 | |

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

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



FILE NAME = S:\Projects\430007237\Drawings\150\150.dwg

USER NAME = linda
 PLOT SCALE = 20,00000' / IN.
 PLOT DATE = 2/9/2010

DESIGNED - JWS
 DRAWN - LEC
 CHECKED - BRM
 DATE - 2-25-08

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

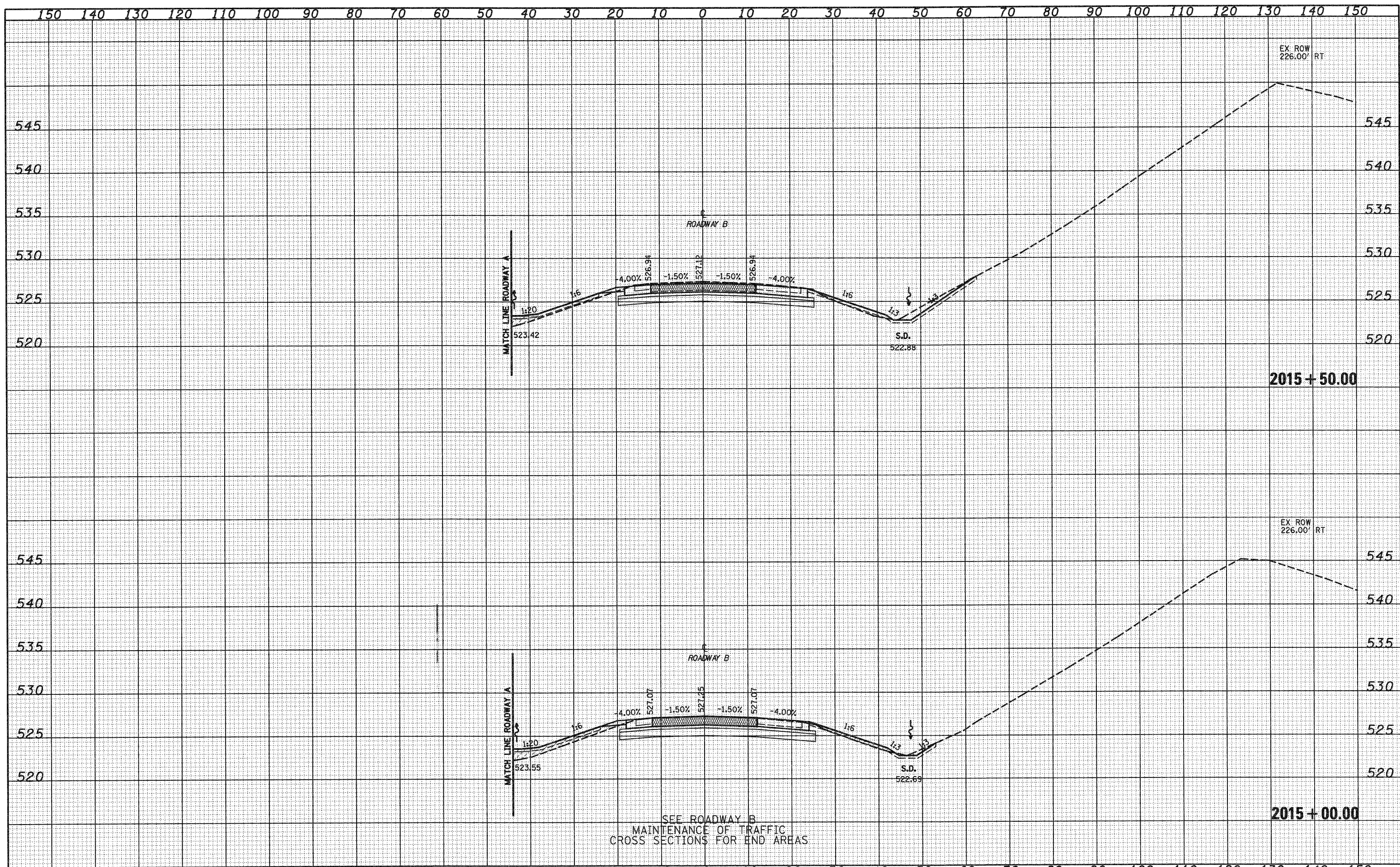
CROSS SECTIONS - FAI ROUTE 70

SCALE: 1"=10' SHEET NO. 2 OF 2 SHEETS STA. 2015+00.00 TO STA. 2015+00.00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|-----------|---------------------------|-----------|
| 57/70 | (25-3)R | EFFINGHAM | 1416 | 494 |
| CONTRACT NO. 74296 | | | ILLINOIS FED. AID PROJECT | |

| | |
|-----------|--|
| DATE | |
| BY | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |
| FILE NAME | |
| USER NAME | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |

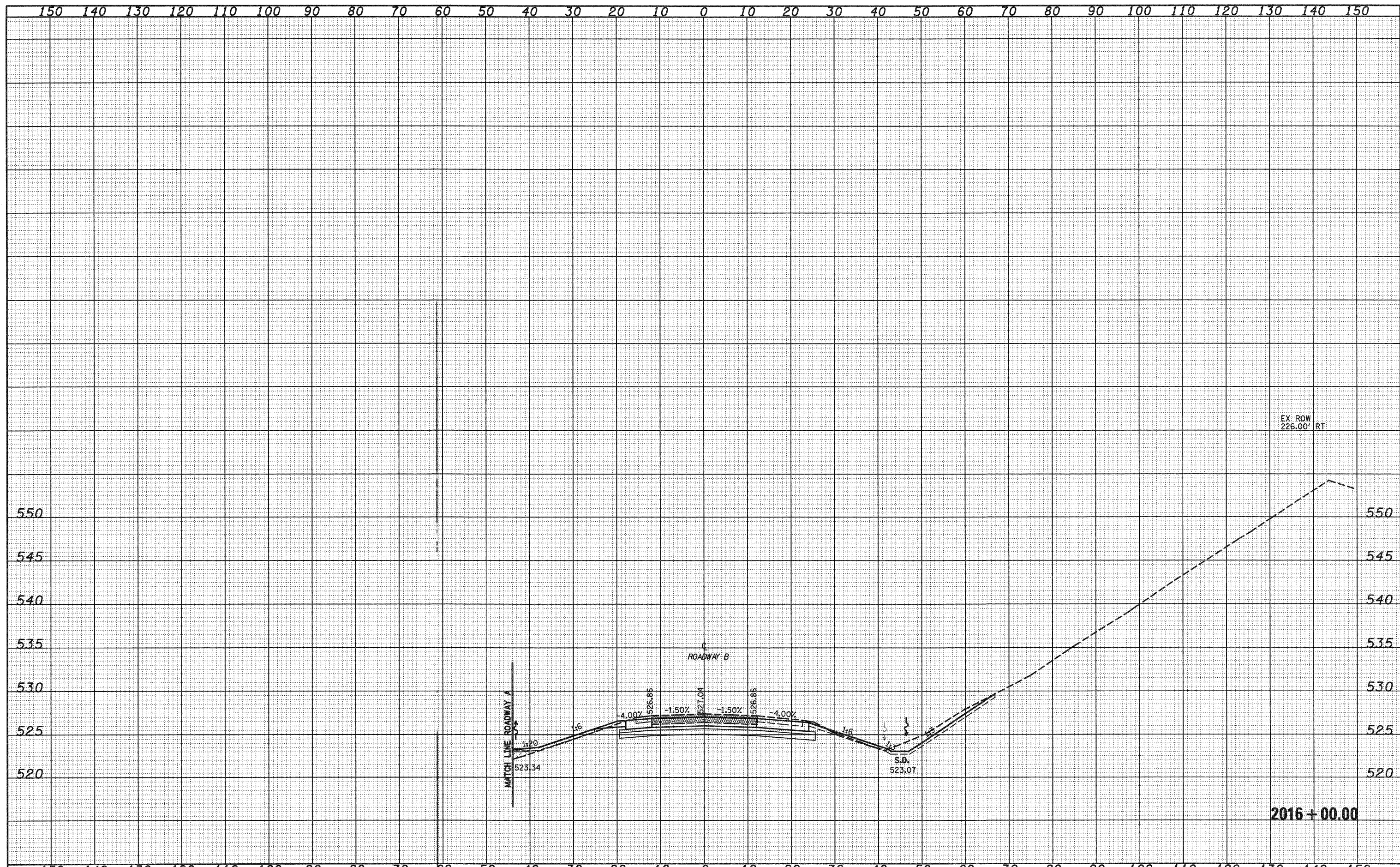
| | |
|-----------|--|
| DATE | |
| BY | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |
| FILE NAME | |
| USER NAME | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |



| | | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-----------|---|---|---------------------------|------------------------------------|---------------------|---------------------------|--------------------|--|
| FILE NAME = | USER NAME = lunda | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS SOUTH TRI LEVEL - ROADWAY B | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| 57/70 | (25-3)R | EFFINGHAM | 1416 | | | 495 | | | | | |
| SCALE: 1"=10' | | | | | | SHEET NO. 1 OF 108 SHEETS | STA. 2015+00.00 TO STA. 2015+50.00 | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT NO. 74296 | |
| PLOT SCALE = 20,0000' / IN. | | CHECKED - BRM | REVISED - | | | | | | | | |
| PLOT DATE = 2/9/2010 | | DATE - 2-25-08 | REVISED - | | | | | | | | |

| | |
|--------------|---------------|
| DATE | |
| BY | |
| FINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMP. DATE |
| | AREAS CHECKED |

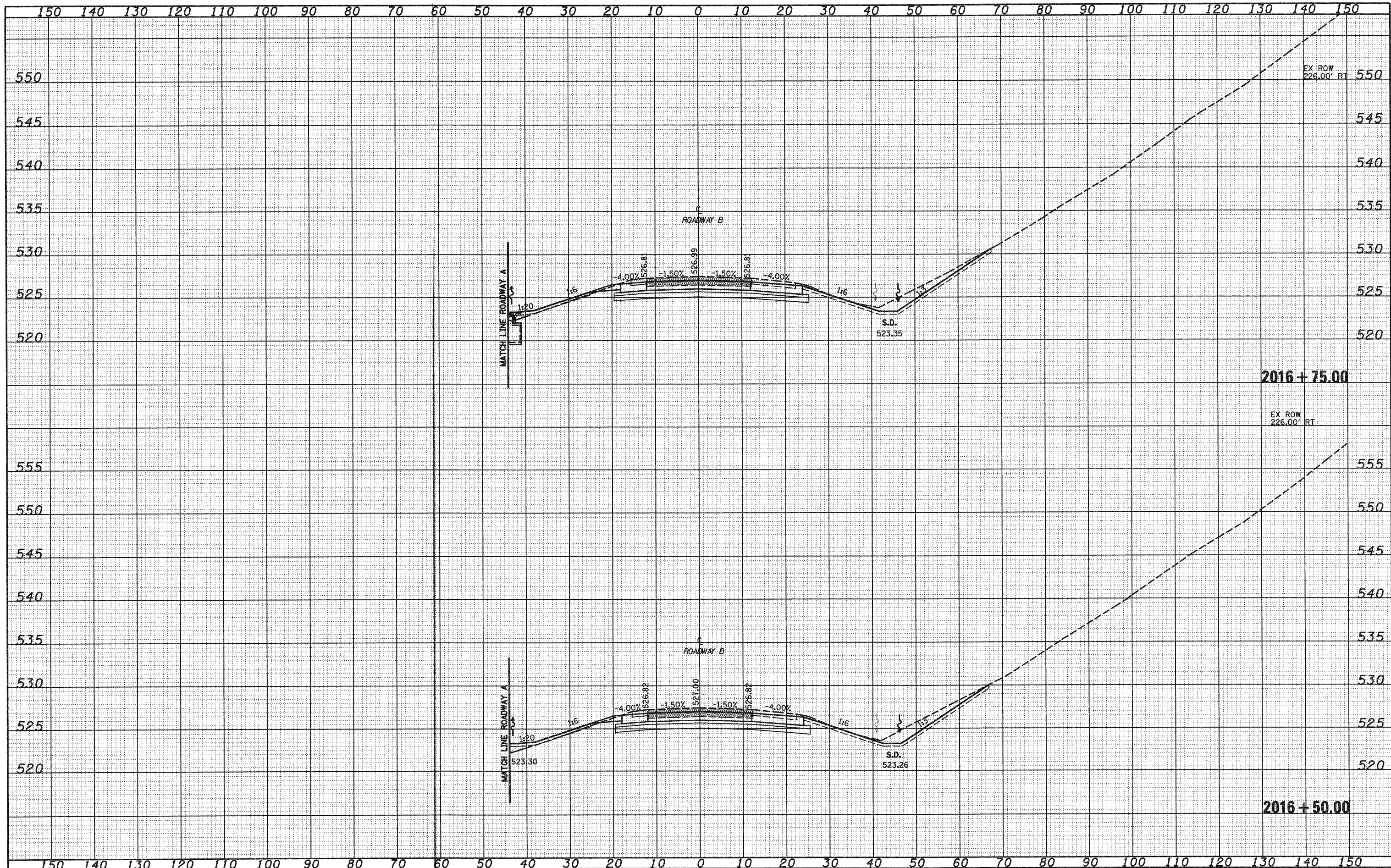
| | |
|-----------------|---------------|
| DATE | |
| BY | |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | TEMP. DATE |
| | AREAS CHECKED |



| | | | | | | | | | | | |
|---|-----------------------------|----------------|-----------|---|---|---|---------|-----------|--------------|-----------|--|
| FILE NAME = | USER NAME = lmda | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS SOUTH TRI LEVEL - ROADWAY B | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| SAProjects\03\002\257\04p15_1ra\asb\JTR02.dgn | PLOT SCALE = 20.0000' / IN. | DRAWN - LEC | REVISED - | | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 496 | |
| PLOT DATE = 2/9/2010 | DATE - 2-25-08 | CHECKED - BRM | REVISED - | | | CONTRACT NO. 74296 | | | | | |
| | | DATE - 2-25-08 | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |

| | |
|----------|--|
| DATE | |
| BY | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |

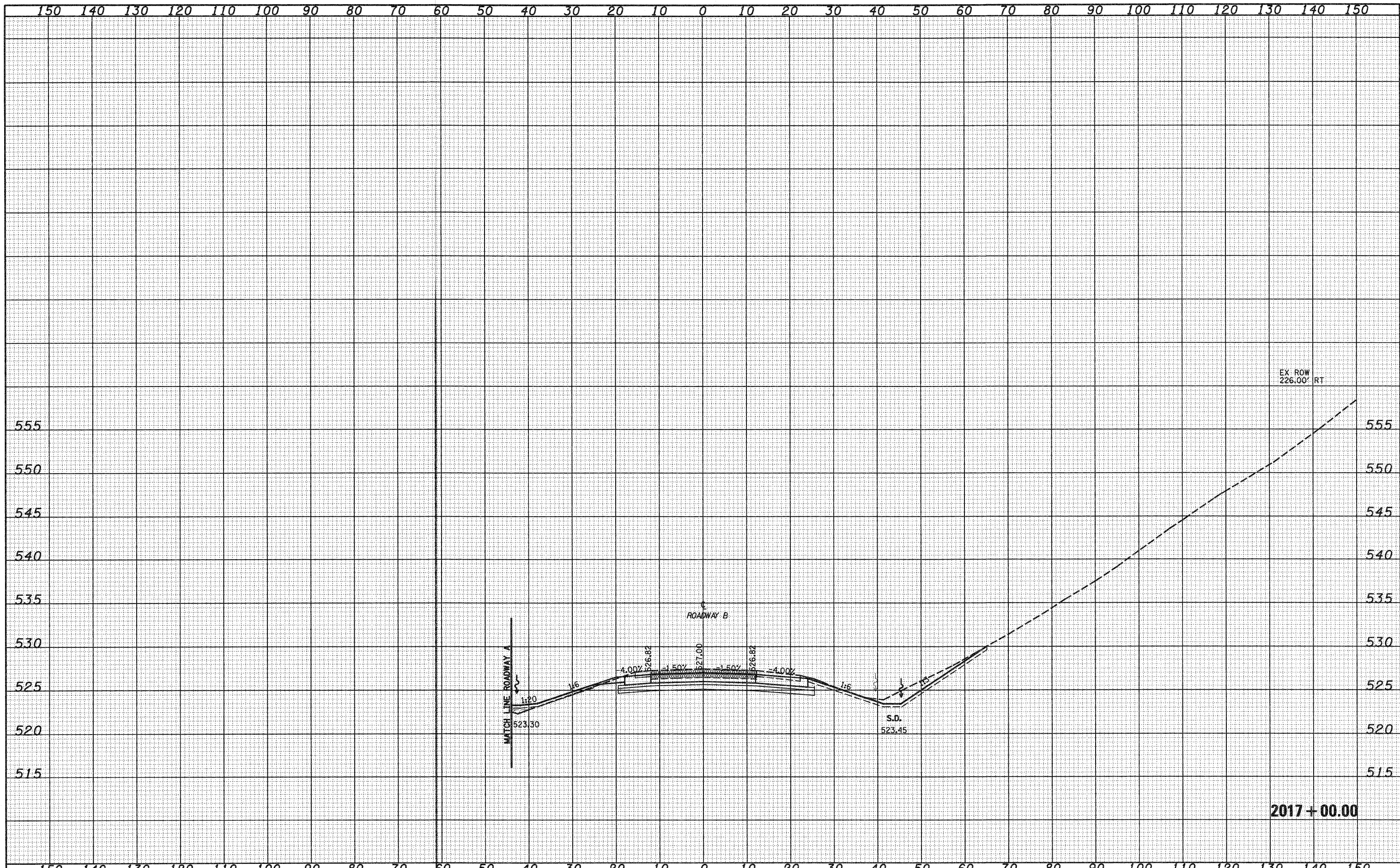
| | |
|----------|--|
| DATE | |
| BY | |
| DESIGNED | |
| DRAWN | |
| CHECKED | |
| DATE | |



| | | | | | | | | | | |
|-----------------------|-----------------------------|----------------|-----------|---|---|--------------------|---------|---------------------------|--------------|------------------------------------|
| FILE NAME - | USER NAME - linda | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS SOUTH TRI LEVEL - ROADWAY B | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PROJECT NO. 000257-70 | PLOT SCALE - 20,0000' / IN. | DRAWN - LEC | REVISED - | | | 57/70 | (25-3R) | EFFINGHAM | 1416 | 497 |
| PLOT DATE - 2/9/2010 | DATE - 2-25-08 | CHECKED - BRM | REVISED - | | | CONTRACT NO. 74296 | | | | |
| | | DATE - 2-25-08 | REVISED - | | | SCALE: 1"=10' | | SHEET NO. 3 OF 108 SHEETS | | STA. 2016+50.00 TO STA. 2016+50.00 |

| | |
|--------------|--|
| DATE | |
| BY | |
| FINAL SURVEY | |
| EXTRACTED | |
| NOTED | |
| NO. | |

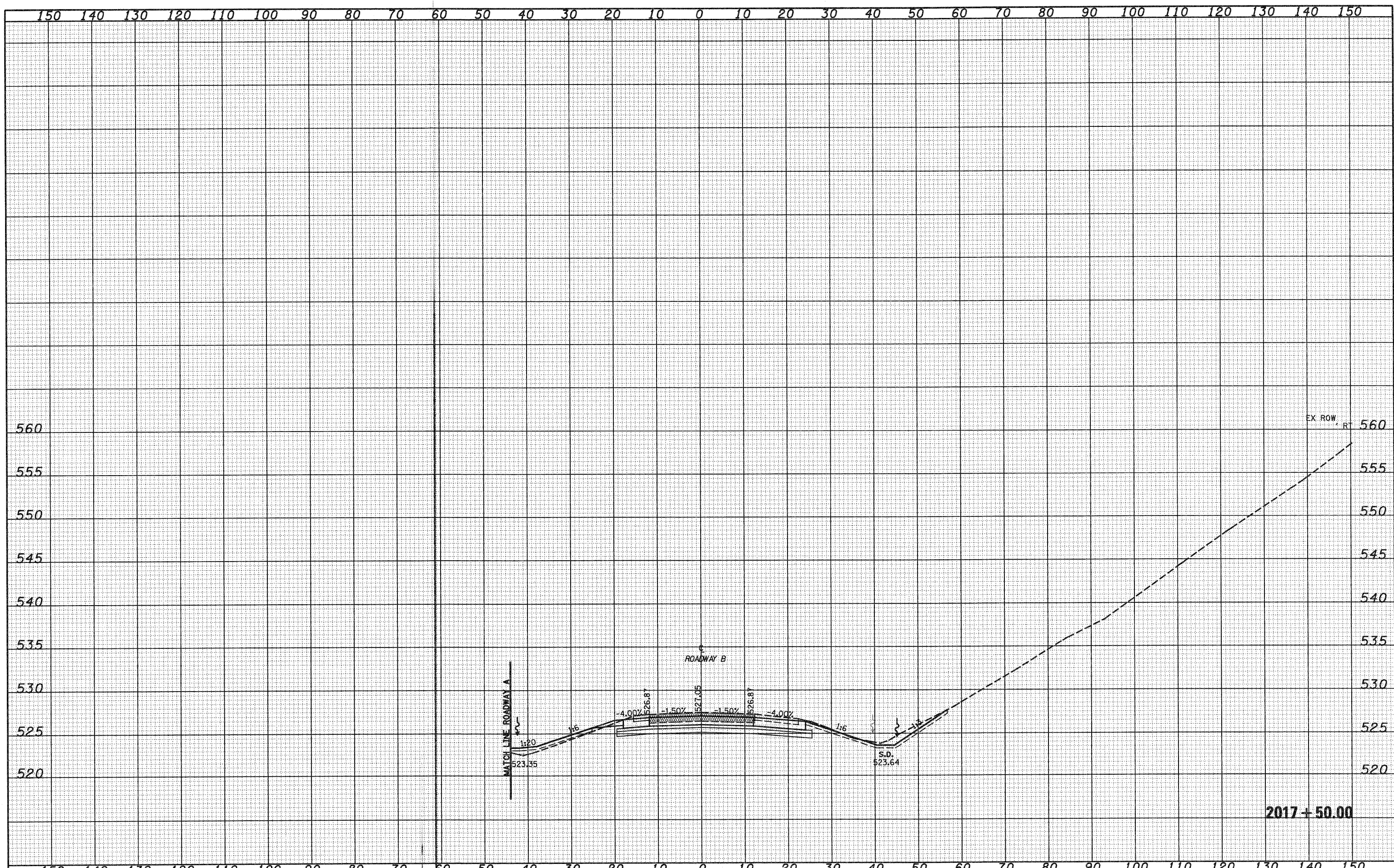
| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| EXTRACTED | |
| NOTED | |
| NO. | |



| | | | | | | | | | | |
|--|-----------------------------|----------------|-----------|---|---|--------------------|---------------------------|---|--------------|-----------|
| FILE NAME = | USER NAME = lunde | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS SOUTH TRI LEVEL - ROADWAY B | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 50\Projects\407\007257\Wdgs\15\TriLevelA.DWG | PLOT SCALE = 20,0000' / IN. | DRAWN - LEC | REVISED - | | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 498 |
| PLOT DATE = 2/9/2010 | DATE - | CHECKED - BRM | REVISED - | | | CONTRACT NO. 74296 | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | |
| | | DATE - | REVISED - | | | SCALE: 1"=10' | SHEET NO. 4 OF 108 SHEETS | STA. 2017+00.00 TO STA. 2017+00.00 | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| FINAL SURVEY | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

| | |
|-----------------|--|
| DATE | |
| BY | |
| ORIGINAL SURVEY | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

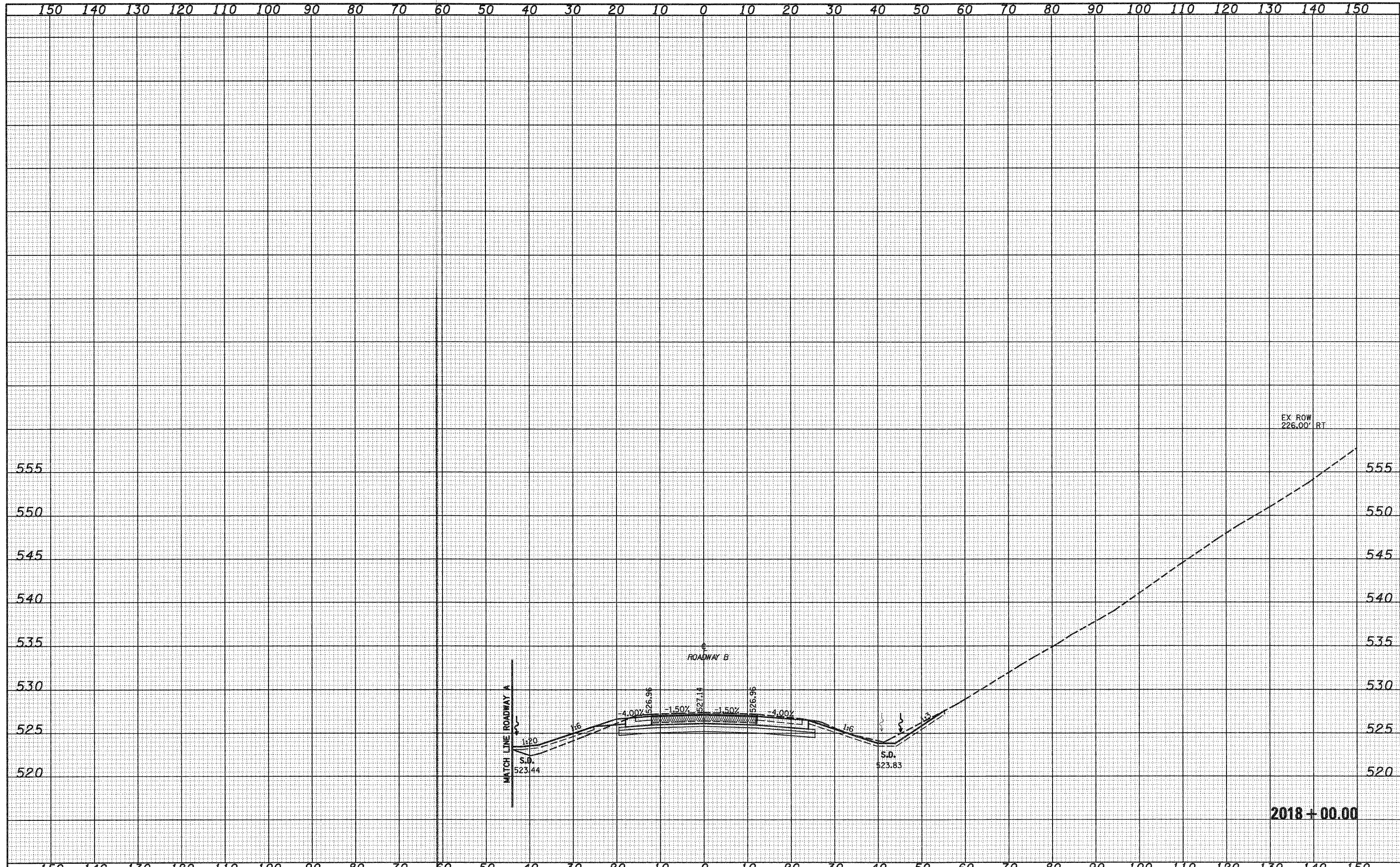


2017 + 50.00

| | | | | | | | | | | | | |
|---|-------------------|----------------|-----------|---|---|---------|-----------|---------------------------|---------|------------------------------------|--------------------|-----------|
| FILE NAME = | USER NAME = linda | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS SOUTH TRI LEVEL - ROADWAY B | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| S:\Projects\401007.57-7\Drawings\176500.dwg | | DRAWN - LEC | REVISED - | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 499 | | | |
| PLOT SCALE = 20.0000' / IN. | | CHECKED - BEM | REVISED - | | SCALE: 1"=10' | | | SHEET NO. 5 OF 108 SHEETS | | STA. 2017+50.00 TO STA. 2017+50.00 | CONTRACT NO. 74296 | |
| PLOT DATE = 2/9/2010 | | DATE - 2-25-08 | REVISED - | | FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| FINISHED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

| | |
|---------------|--|
| DATE | |
| BY | |
| ORIGINAL | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |



2018 + 00.00

| | | | | | | | | | | | |
|--|-------------------|----------------|-----------|---|---|--------------------|---------|---------------------------|--------------|------------------------------------|--|
| FILE NAME = | USER NAME = lunde | DESIGNED - JWS | REVISED - | STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS SOUTH TRI LEVEL - ROADWAY B | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| SAProjects\43-88872.57-1\43p15 Tri\AreaA\76888.dgn | | DRAWN - LEC | REVISED - | | | 57/70 | (25-3)R | EFFINGHAM | 1416 | 500 | |
| PLOT SCALE = 20,0000 ' / IN. | | CHECKED - BRM | REVISED - | | | CONTRACT NO. 74296 | | | | | |
| PLOT DATE = 2/9/2018 | | DATE - 2-28-08 | REVISED - | | | SCALE: 1"=10' | | SHEET NO. 6 OF 108 SHEETS | | STA. 2018+00.00 TO STA. 2018+00.00 | |