

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

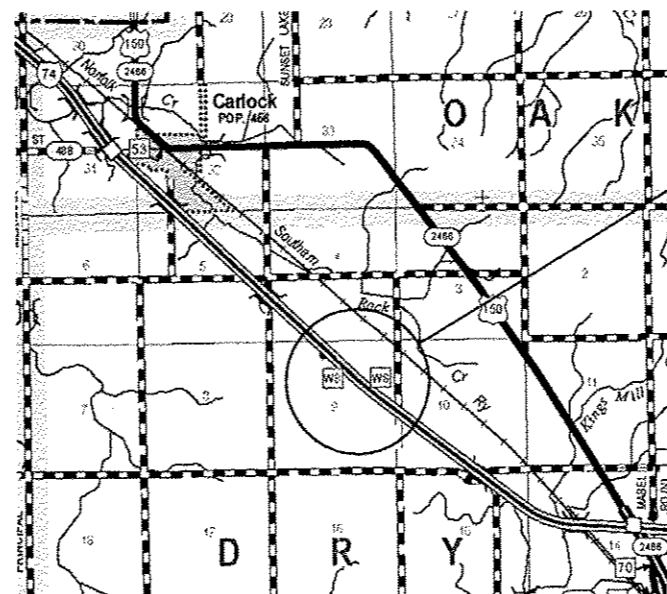
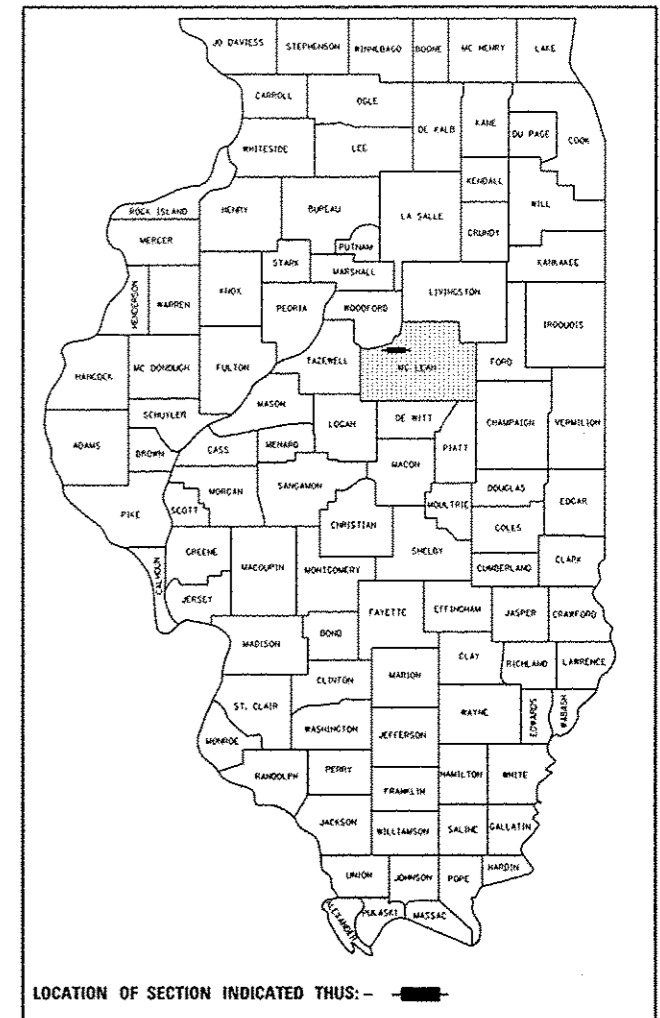
F.A.I. ROUTE 74 (1-74)
SECTION (57-18)WS-3
LIGHTING
MCLEAN COUNTY

C-95-014-15

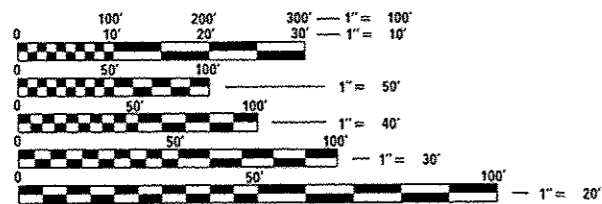
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-18)WS-3	MCLEAN	19	1
		ILLINOIS	CONTRACT NO. 70B18	

D-95-047-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 2



I-74 E.B. & W.B.
CARLOCK
WEIGH STATIONS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: JEFF ALLEN

CONTRACT NO. 70B18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 2 20 15

Kensil A. Barnett
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

MAY 8 20 15
John D. Baranzelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

MAY 8 20 15
Omer Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN PROPOSED LIGHT POLE LOCATIONS AND UTILITY LINES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNDERGROUND CONDUIT OR UNIT DUCT PAY ITEM.
3. PROPOSED LIGHT POLES TO BE INSTALLED AT A 20 FEET SETBACK FROM THE EDGE OF TRAVELED PAVEMENT UNLESS NOTED OTHERWISE ON THE PLANS. NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE INCREASED IF NECESSARY AS DIRECTED BY THE ENGINEER.
4. UNDERGROUND COILABLE NON-METALLIC CONDUIT SHALL BE SCHEDULE 80 AS NOTED IN THE PLANS.
5. STAINLESS STEEL SCREEN INSTALLED AROUND BREAKAWAY COUPLINGS OR ANCHOR RODS AND NUTS SHALL BE ACCORDING TO ARTICLE 1070.04(a)(2)c OF THE STANDARD SPECIFICATIONS EXCEPT THE MINIMUM WIRE DIAMETER SHALL BE AWG NO. 16 (1.6 mm).
6. PROPOSED UNIT DUCT SHALL BE SCHEDULE 40.
7. REMOVAL AND DISPOSAL OF THE HEIGHT DETECTOR POLES AND THEIR FOUNDATIONS AT THE EASTBOUND AND WESTBOUND WEIGH STATIONS SHALL BE PAID FOR UNDER THE PAY ITEMS, POLE AND CABLE REMOVAL AND REMOVAL OF POLE FOUNDATION.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, INDEX OF SHEETS AND LIST OF STANDARDS
3.	SUMMARY OF QUANTITIES
4.	SCHEDULE OF QUANTITIES
5.-8.	EASTBOUND WEIGH STATION PLAN SHEETS
9.-12.	WESTBOUND WEIGH STATION PLAN SHEETS
13.	CIRCUIT DIAGRAM
14.	LIGHTING CONTROLLER
15.	LUMINAIRE WIRING DIAGRAM
16.-17.	LIGHT POLE ALUMINUM DAVIT ARM
18.	LIGHT POLE FOUNDATION
19.	BREAKAWAY DEVICES

LIST OF STANDARDS

STANDARD NO.	NAME OF STANDARD
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701451-03	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-04	TRAFFIC CONTROL DEVICES
821101-01	LUMINAIRE WIRING DIAGRAM
830006-03	LIGHT POLE ALUMINUM DAVIT ARM
836001-02	LIGHT POLE FOUNDATION
838001	BREAKAWAY DEVICES

FILE NAME *	USER NAME * p1ereomb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS & LIST OF STANDARDS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\N\284EBIDINTEG.illinois.gov\PK1207\do	Documents\DOT Offices\District 5\Projects\057818\Drawings\Design\057818-shtrgenote.dwg	DRAWN	REVISED		74	(57-18)WS-3	MCLEAN	19	2	CONTRACT NO. 70B18	
#MODELNAME*	PLOT SCALE = 42.0000' / 1" in.	CHECKED -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/2/2015	DATE -	REVISED -								

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAI 74	FAI 74
RURAL	RURAL
INTERSTATE	INTERSTATE
MCLEAN COUNTY	MCLEAN COUNTY

FUNDING BREAKOUT:

100% STATE	100% STATE
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CONSTRUCTION TYPE CODE:

0021	0021
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	EASTBOUND	WESTBOUND
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
81028770	UNDERGROUND CONDUIT, COILABLE NONMET ALLIC CONDUIT, 3" DIA.	FOOT	575.0	294.0	281.0
81603000	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHELYNE	FOOT	1,191.0	603.0	588.0
81603030	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHELYNE	FOOT	5,539.00	2,773.0	2,766.0
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	30.0	15.0	15.0
83003400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM	EACH	30.0	15.0	15.0
83600355	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8"X6"	EACH	30.0	15.0	15.0
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	72.0	36.0	36.0
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	36.0	18.0	18.0
84200804	REMOVAL OF POLE FOUNDATION	EACH	40.0	20.0	20.0
X0327459	POLE AND CABLE REMOVAL	EACH	3.0	2.0	1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.5	0.5
X8950130	MODIFY EXITING LIGHTING CONTROLLER	EACH	2.0	1.0	1.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	0.5	0.5

FILE NAME #	USER NAME # pseranbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
g:\11\8846BID\INT\ED\Illinois.gov\PK\DOT\0	umerts\DOT_Offices\District 5\Projects\057	DRAWN Data\Design\0572818-ent-500	REVISED -			74	(57-18)WS-3	MCLEAN	19	3	
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#MODELNAME#	PLOT DATE = 2/2/2015	DATE -	REVISED -			SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.					

SCHEDULE OF QUANTITIES

Eastbound

81603030 - UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6
GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

TYPE A			
Pole 1	to	Pole 2	219.49 ft.
Pole 2	to	Pole 3	209.47 ft.
Pole 3	to	Pole 4	217.5 ft.
Pole 4	to	Pole 5	220.19 ft.
Pole 5	to	Pole 6	221.14 ft.
Pole 6	to	Pole 7	219.32 ft.
Pole 7	to	Pole 8	267.93 ft.
Pole 8	to	Pole 10	234.32 ft.
Pole 10	to	Pole 12	232.47 ft.
Pole 12	to	Scale House	313.95 ft.
Pole 8	to	Pole 14	416.64 ft.
			Total
			2772.42 ft.
			USE
			2773 ft.

81603000 - UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8
GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

TYPE B			
Pole 10	to	Scale House	129.29 ft.
Pole 9	to	Pole 15	77.59 ft.
Pole 15	to	Pole 13	172.26 ft.
Pole 13	to	Pole 11	90.61 ft.
Pole 11	to	Scale House	132.97 ft.
			Total
			602.72 ft.
			USE
			603 ft.

* INCLUDED IN LENGTH IS 3 FT AT EACH POLE
CONNECTION AND 25 FT A SCALE HOUSE.

81028770 - UNDERGROUND CONDUIT, COILABLE
NONMETALLIC CONDUIT, 3" DIA.

Pole 7	to	Pole 8	41 ft.
Pole 8	to	Pole 14	84 ft.
Pole 10	to	Scale House	47 ft.
Pole 12	to	Scale House	47 ft.
Pole 13	to	Pole 15	45 ft.
Pole 11	to	Scale House	30 ft.
			Total
			294 ft.
			USE
			294 ft.

82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	15 EACH
83003400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM	15 EACH
83600355	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6"	15 EACH
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN *	36 EACH
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	18 EACH
84200804	REMOVAL OF POLE FOUNDATION	20 EACH
X0327459	POLE AND CABLE REMOVAL	2 EACH
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	1 EACH

* INCLUDED FOR POLES NUMBERED 101, 102, 103, 104, 105, 106, 107, 108 AND 112 ONLY.

Westbound

81603030 - UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6
GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

TYPE A			
Pole 1	to	Pole 2	209.99 ft.
Pole 2	to	Pole 3	218.61 ft.
Pole 3	to	Pole 4	217.38 ft.
Pole 4	to	Pole 5	222.58 ft.
Pole 5	to	Pole 6	208.44 ft.
Pole 6	to	Pole 7	249.47 ft.
Pole 7	to	Pole 8	238.74 ft.
Pole 8	to	Pole 10	234.09 ft.
Pole 10	to	Pole 12	232.99 ft.
Pole 12	to	Scale House	315.16 ft.
Pole 8	to	Pole 14	418.45 ft.
			Total
			2765.9 ft.
			USE
			2766 ft.

81603000 - UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8
GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

TYPE B			
Pole 10	to	Scale House	123.48 ft.
Pole 9	to	Pole 15	75.64 ft.
Pole 15	to	Pole 13	173.19 ft.
Pole 13	to	Pole 11	93.95 ft.
Pole 11	to	Scale House	121.32 ft.
			Total
			587.58 ft.
			USE
			588 ft.

* INCLUDED IN LENGTH IS 3 FT AT EACH POLE
CONNECTION AND 25 FT A SCALE HOUSE

81028770 - UNDERGROUND CONDUIT, COILABLE
NONMETALLIC CONDUIT, 3" DIA.

Pole 7	to	Pole 8	40 ft.
Pole 8	to	Pole 14	88 ft.
Pole 10	to	Scale House	47 ft.
Pole 12	to	Scale House	47 ft.
Pole 13	to	Pole 15	45 ft.
Pole 11	to	Scale House	14 ft.
			Total
			281 ft.
			USE
			281 ft.

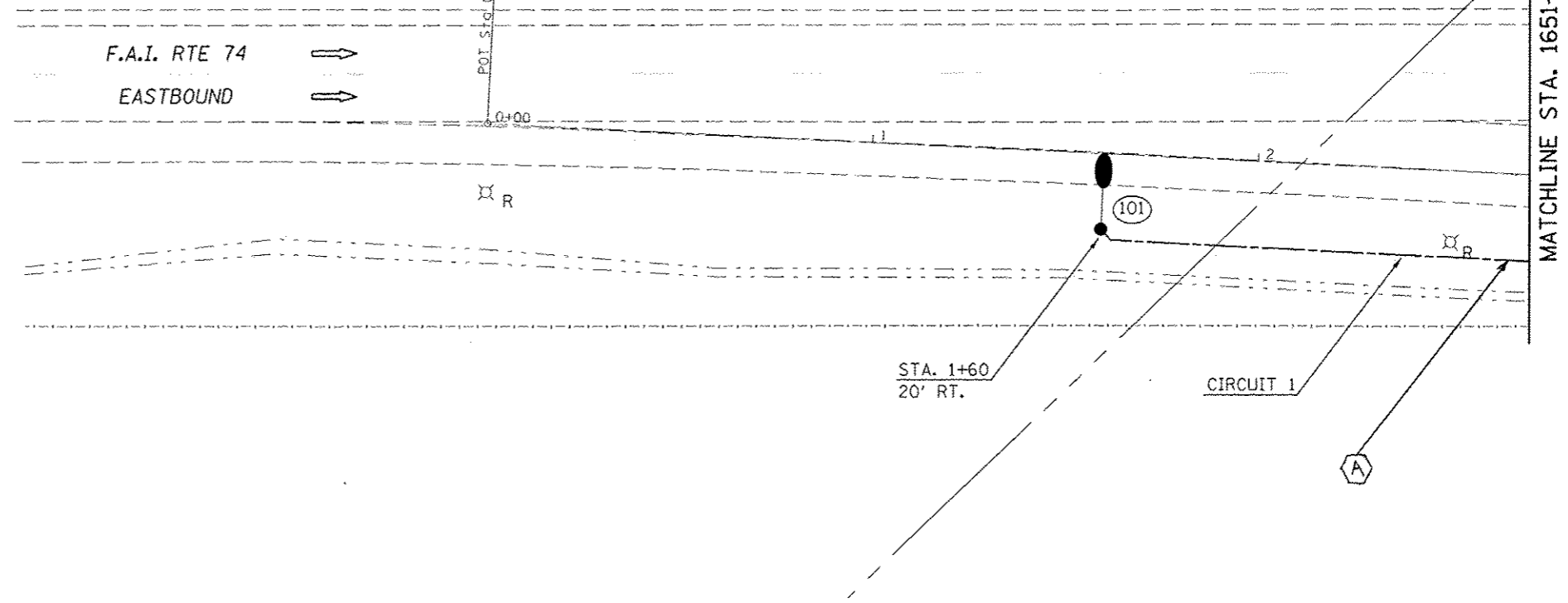
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	15 EACH
83003400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM	15 EACH
83600355	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6"	15 EACH
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN *	36 EACH
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	18 EACH
84200804	REMOVAL OF POLE FOUNDATION	20 EACH
X0327459	POLE AND CABLE REMOVAL	1 EACH
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	1 EACH

* INCLUDED FOR POLES NUMBERED 101, 102, 103, 104, 105, 106, 107, 108 AND 112 ONLY.



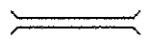


REV.

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\IL08MERIDINTC\Illinois.gov\PIDOT\Documents\1001 Offices\District 5\Projects\057\Drawn\Design\0570018-sht-schedule	personbr	-	-			74	(57-18)WS-3	MCLEAN	19	4
#MODEL NAME	PLOT SCALE: 40.0000 1/4 in.	CHECKED	REVISED		SCALE: N/A					CONTRACT NO. 70B18
	PLOT DATE: 3/2/2015	DATE	REVISED		SHEET 1 OF 1 SHEETS	STA.	TO STA.			ILLINOIS FED. AID PROJECT



1646 1647 1648 F.A.I. ROUTE 74 1649 1650+00 1651

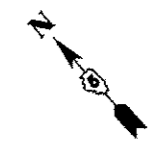


LEGEND

-  PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
-  PROPOSED UNIT DUCT, SIZE AS INDICATED
-  PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, 3" DIA., SCHEDULE 80
-  EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE
-  EXISTING HEIGHT DETECTION POLE TO BE REMOVED, NO SALVAGE

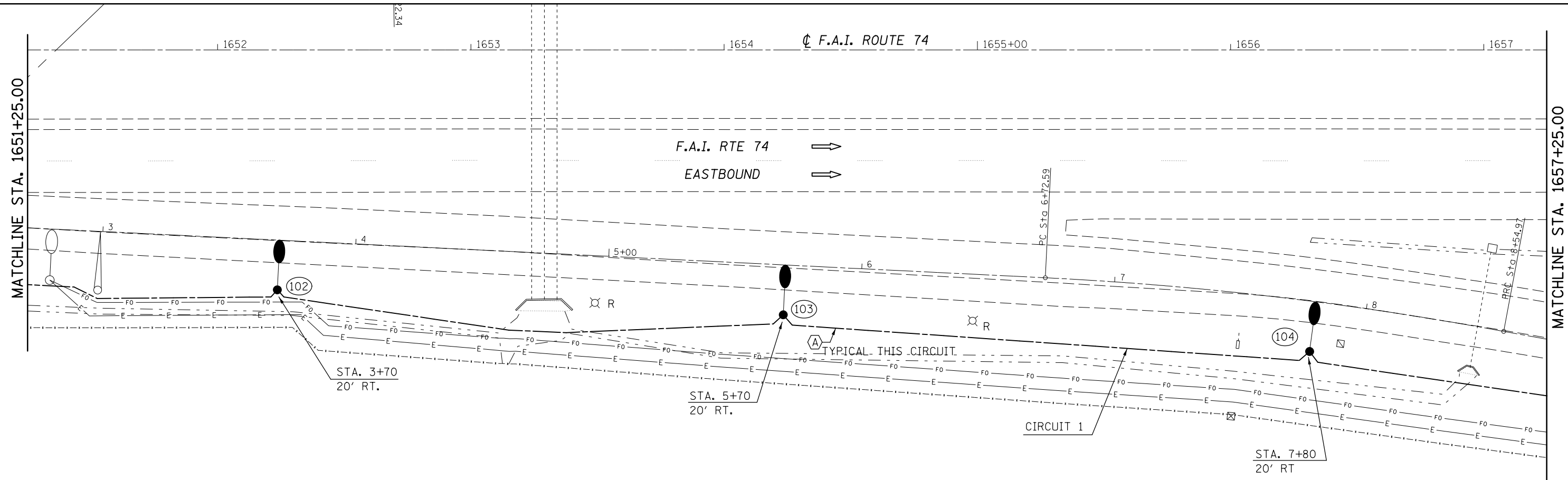
CABLE SCHEDULE

-  PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
-  PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE


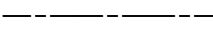
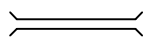




REV.

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EASTBOUND WEIGH STATION			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\NL884E01DINTEG\Illinois.gov\PK1001\Do	umants\1001_Offices\District 5\Projects\057	DRAWN	REVISED		74	(57-18)WS-3	MCLEAN	19	5			
		CHECKED	REVISED		CONTRACT NO. 70B18			ILLINOIS FED. AID PROJECT				
ENDDELNAME4	PLOT DATE * 3/2/2015	DATE	REVISED		SCALE: 1" = 20'	SHEET 1 OF 4 SHEETS	STA. 1647+00.00 TO STA. 1651+25.00					



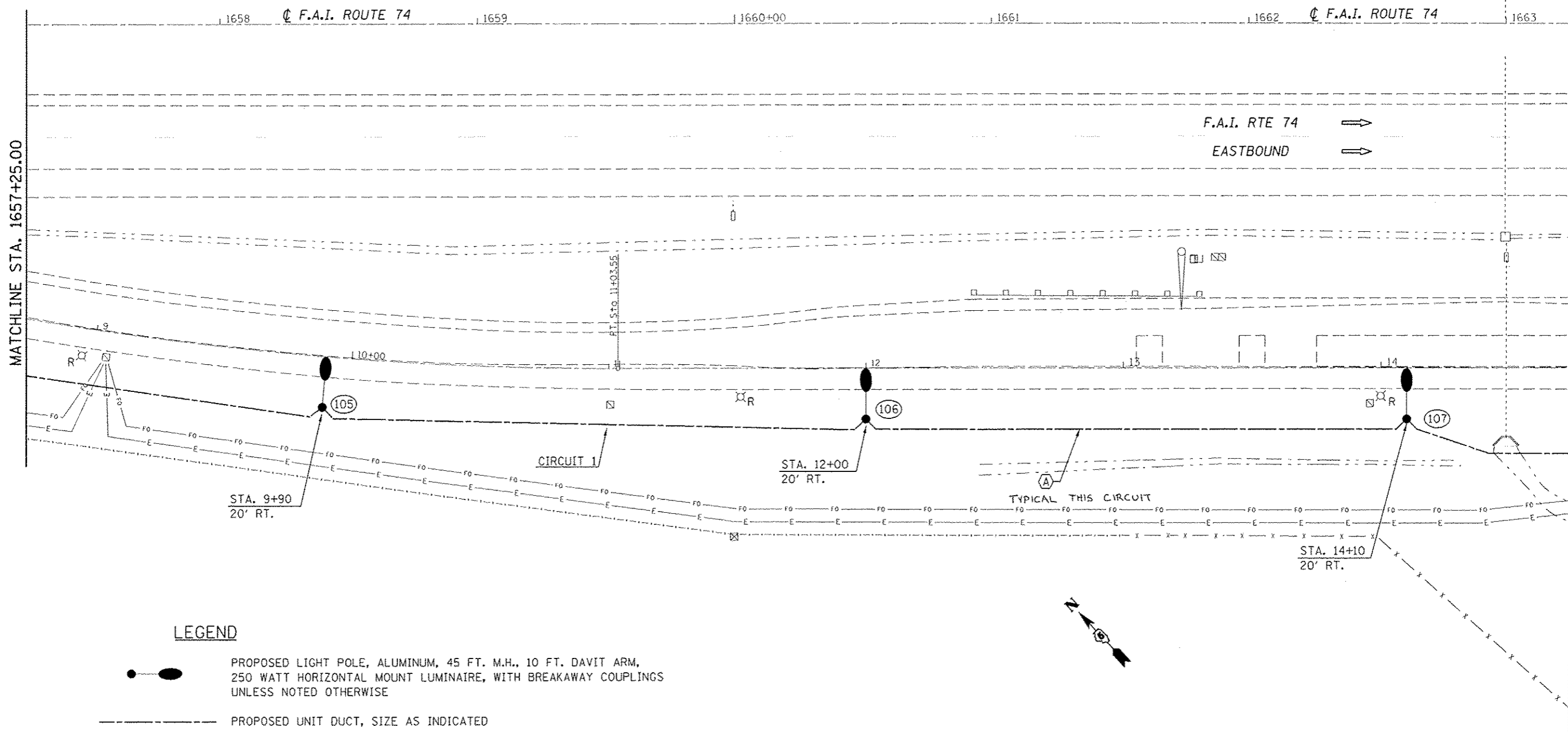
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-  PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
-  PROPOSED UNIT DUCT, SIZE AS INDICATED
-  PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, 3" DIA., SCHEDULE 80
-  EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE
-  EXISTING HEIGHT DETECTION POLE TO BE REMOVED, NO SALVAGE

CABLE SCHEDULE

- (A) PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (B) PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EASTBOUND WEIGH STATION			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.		DATE -	REVISED -		CONTRACT NO. 70B18			ILLINOIS FED. AID PROJECT				
\$MODELNAME\$					SCALE: 1" = 20'	SHEET 2 OF 4 SHEETS	STA. 1651+25.00 TO STA. 1657+25.00					



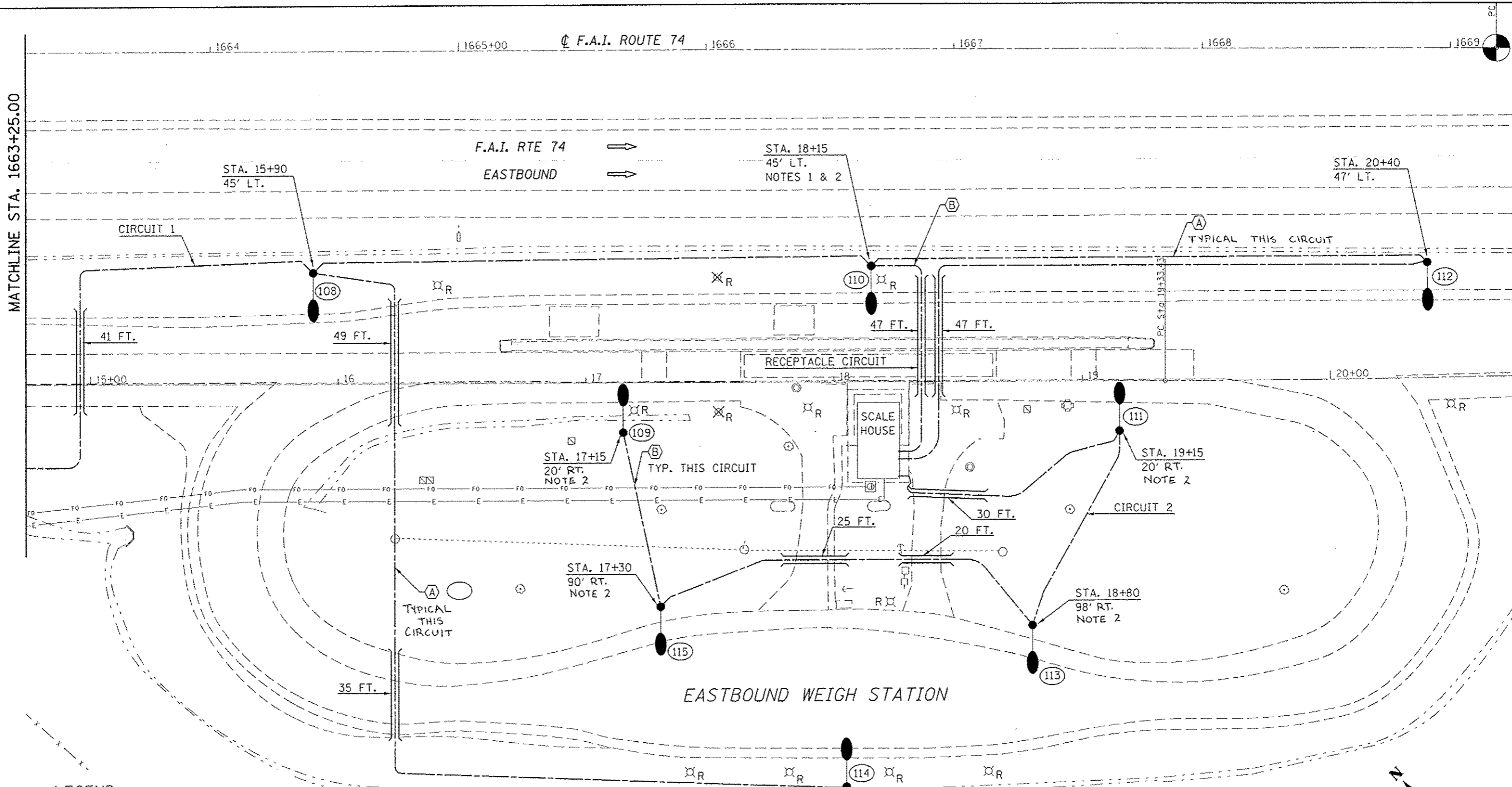
LEGEND

- PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
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- PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

FILE NAME : p:\114884E010\HTEG.illinois.gov\PI001\Documents\1001_01\Files\Dist\101_5N\Projects\057	USER NAME : p1e-aonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EASTBOUND WEIGH STATION		F.A.I. RTE. 74	SECTION 157-181WS-3	COUNTY MCLEAN	TOTAL SHEETS 19	SHEET NO. 7
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MODEL NAME :	PLOT SCALE : 40,0000' / in.	DATE -	REVISED -	SCALE: 1" = 20'			SHEET 3 OF 4 SHEETS			STA. 1657+25.00 TO STA. 1663+25.00	
	PLOT DATE : 3/2/2015			ILLINOIS FED. AID PROJECT							



LEGEND

- PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
- PROPOSED UNIT DUCT, SIZE AS INDICATED
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CABLE SCHEDULE



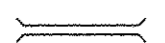


- (A) PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (B) PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

NOTES

1. FURNISH AND INSTALL A 20A DUPLEX GFI RECEPTACLE WITH IN-USE COVER AND GASKET. ATTACH THE RECEPTACLE TO THE LIGHT POLE 12 FEET UP FROM THE POLE BASE FACING THE SCALE HOUSE. FURNISH AND INSTALL A 2 POLE FUSEHOLDER WITH SOLID NEUTRAL IN THE POLE HANDHOLE TO FEED THE RECEPTACLE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM.
2. LIGHT POLE SHALL BE INSTALLED WITHOUT BREAKAWAY COUPLINGS.

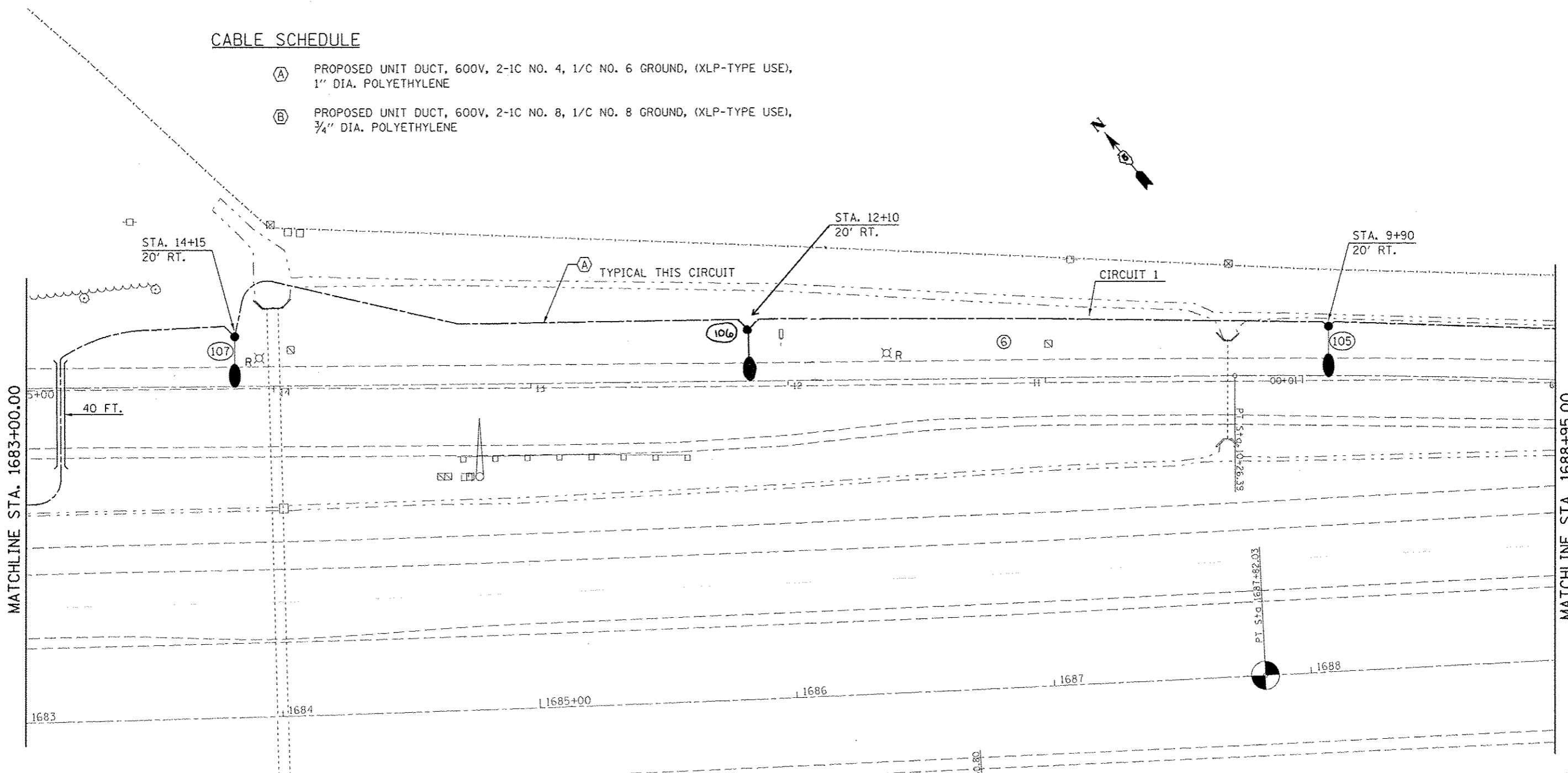
FILE NAME =	USER NAME = pieranbr	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EASTBOUND WEIGH STATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
per\\NLD04EBI01\TEG\Illinois\gov\WIDOT\Documents\1001_District\District 5\Projects\057\Drawings\10570010-01r-plan.dgn	PROJECT NO. 1001	DRAWN -	REVISIONS -			74	(57-18)W5-3	MCCLEAN	19	8	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISIONS -	REVISIONS -			SCALE: 1" = 20'		SHEET 4 OF 4 SHEETS		STA. 1663+25.00 TO STA. 1669+25.00	
MODEL NAME =	PLOT DATE = 3/2/2015	DATE -	REVISIONS -			CONTRACT NO. 70B18					
						ILLINOIS FED. AID PROJECT					

LEGEND

-  PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
-  PROPOSED UNIT DUCT, SIZE AS INDICATED
-  PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, 3" DIA., SCHEDULE 80
-  EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE
-  EXISTING HEIGHT DETECTION POLE TO BE REMOVED, NO SALVAGE


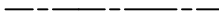
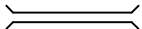


CABLE SCHEDULE

- (A) PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (B) PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE



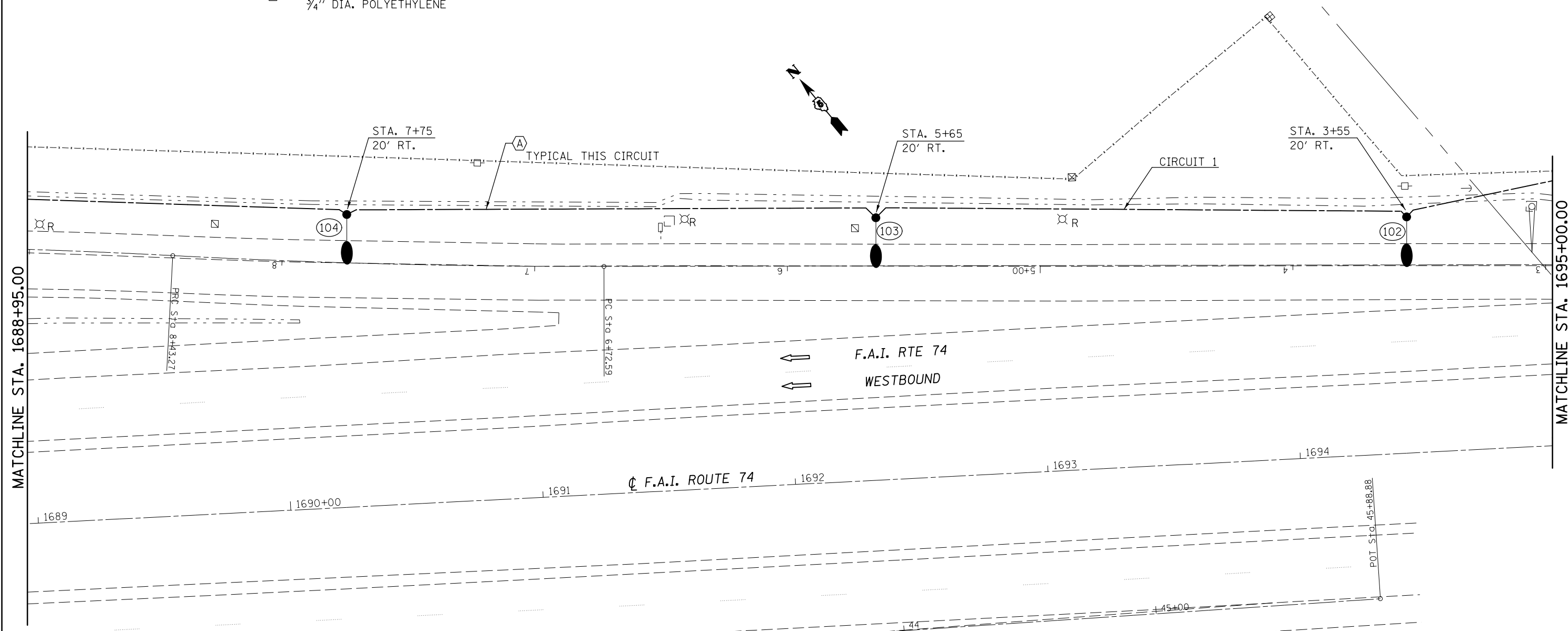
FILE NAME : p:\11004\FBID\REG.Illinois.gov\PIWIDOT\Do	USER NAME : j_perssonbr	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTBOUND WEIGH STATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN: j_perssonbr	CHECKED -	REVISD -			74	(57-18)WS-3	MCLEAN	19	10
#MODELNAME4	PLOT SCALE : 40,0000 / in.	DATE -	REVISD -	SCALE: 1" = 20'		SHEET 2 OF 4 SHEETS		STA. 1683+00.00 TO STA. 1688+95.00		CONTRACT NO. 70B18
	PLOT DATE : 3/2/2015			ILLINOIS FED. AID PROJECT						

LEGEND

-  PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
-  PROPOSED UNIT DUCT, SIZE AS INDICATED
-  PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, 3" DIA., SCHEDULE 80
-  EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE
-  EXISTING HEIGHT DETECTION POLE TO BE REMOVED, NO SALVAGE


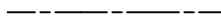
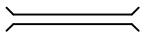


CABLE SCHEDULE

- (A) PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (B) PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE



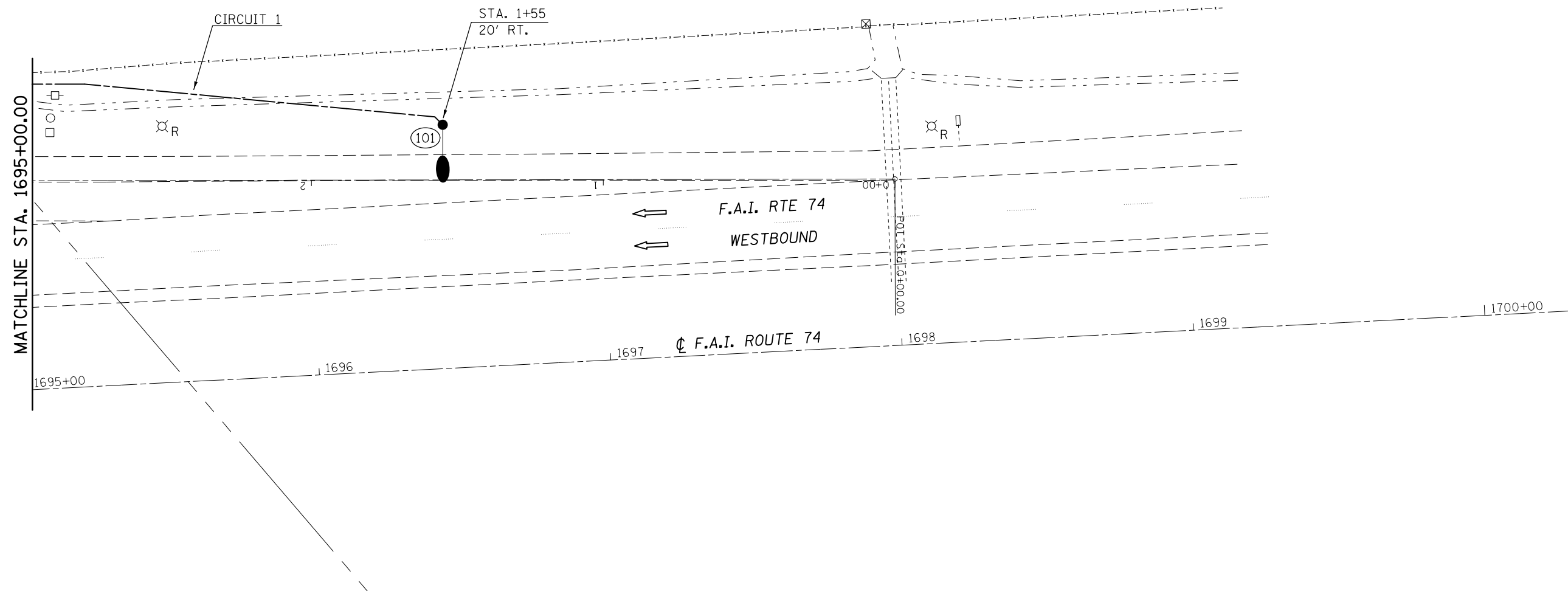
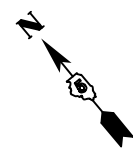
FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTBOUND WEIGH STATION			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\0570818-sht-plan.dgn	PLotted	CHECKED -	REVISED -					74	(57-18)WS-3	MCLEAN	19	11
\$MODELNAME\$	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		CONTRACT NO. 70B18			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/2/2015				SCALE: 1" = 20'			SHEET 3 OF 4 SHEETS			STA. 1688+95.00 TO STA. 1695+00.00	

LEGEND

-  PROPOSED LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. DAVIT ARM, 250 WATT HORIZONTAL MOUNT LUMINAIRE, WITH BREAKAWAY COUPLINGS UNLESS NOTED OTHERWISE
-  PROPOSED UNIT DUCT, SIZE AS INDICATED
-  PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, 3" DIA., SCHEDULE 80
-  EXISTING LIGHTING UNIT TO BE REMOVED, NO SALVAGE
-  EXISTING HEIGHT DETECTION POLE TO BE REMOVED, NO SALVAGE

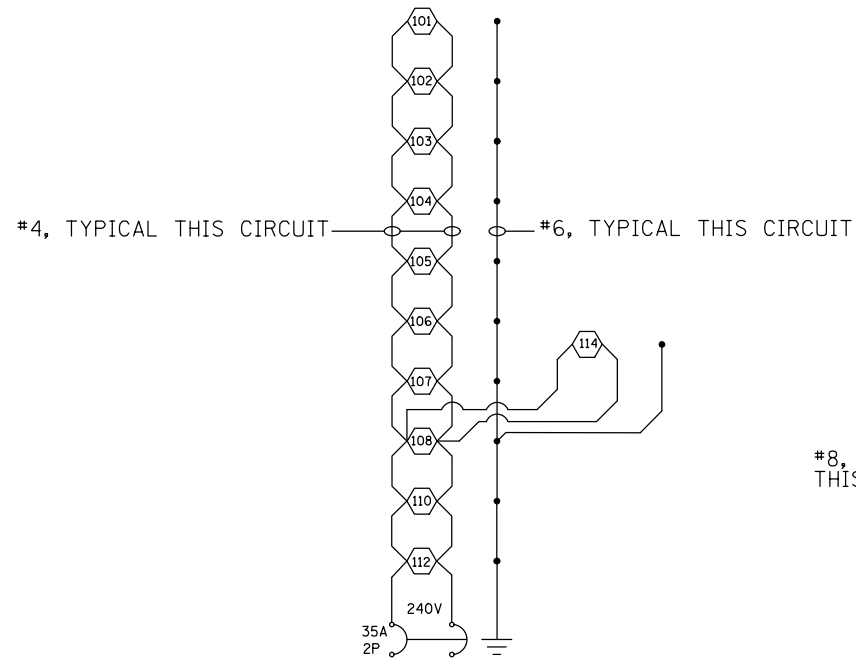
CABLE SCHEDULE

- (A) PROPOSED UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (B) PROPOSED UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

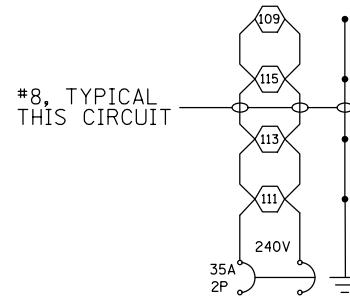


FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WESTBOUND WEIGH STATION			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\0570818-sht-plan.dgn					REVISED -	74	(57-18)WS-3	MCLEAN	19	12		
PLOT SCALE = 40.0000' / in.					CHECKED -	SCALE: 1" = 20'			SHEET 4 OF 4 SHEETS			CONTRACT NO. 70B18
PLOT DATE = 3/2/2015					DATE -	STA. 1695+00.00 TO STA. 1700+00.00			ILLINOIS FED. AID PROJECT			

CIRCUIT DIAGRAM



PROPOSED LIGHTING CIRCUIT 1
EASTBOUND WEIGH STATION

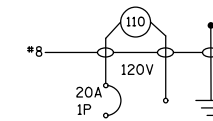


PROPOSED LIGHTING CIRCUIT 2
EASTBOUND WEIGH STATION

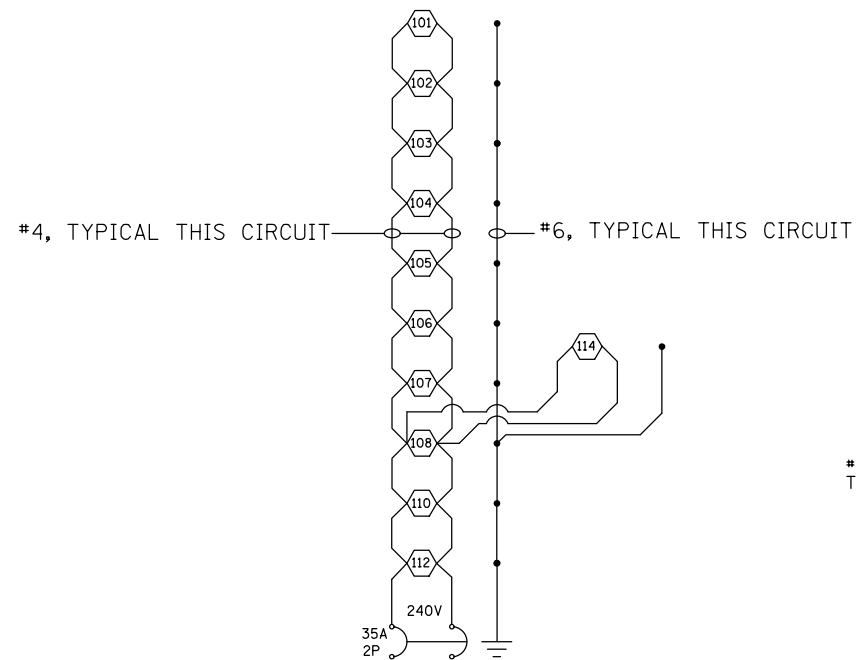
- NOTES:
- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

LEGEND

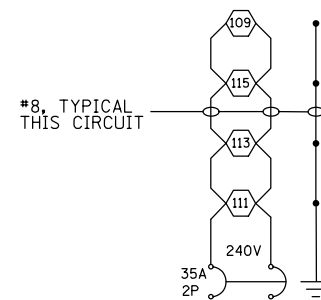
- PROPOSED DUPLEX GFCI RECEPTACLE MOUNTED ON LIGHT POLE (NUMBER INDICATES LIGHT POLE)
- PROPOSED 250W ROADWAY LUMINAIRE
- PROPOSED ELECTRIC CABLE



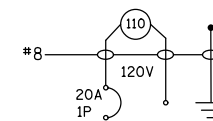
PROPOSED RECEPTACLE CIRCUIT
EASTBOUND WEIGH STATION



PROPOSED LIGHTING CIRCUIT 1
WESTBOUND WEIGH STATION



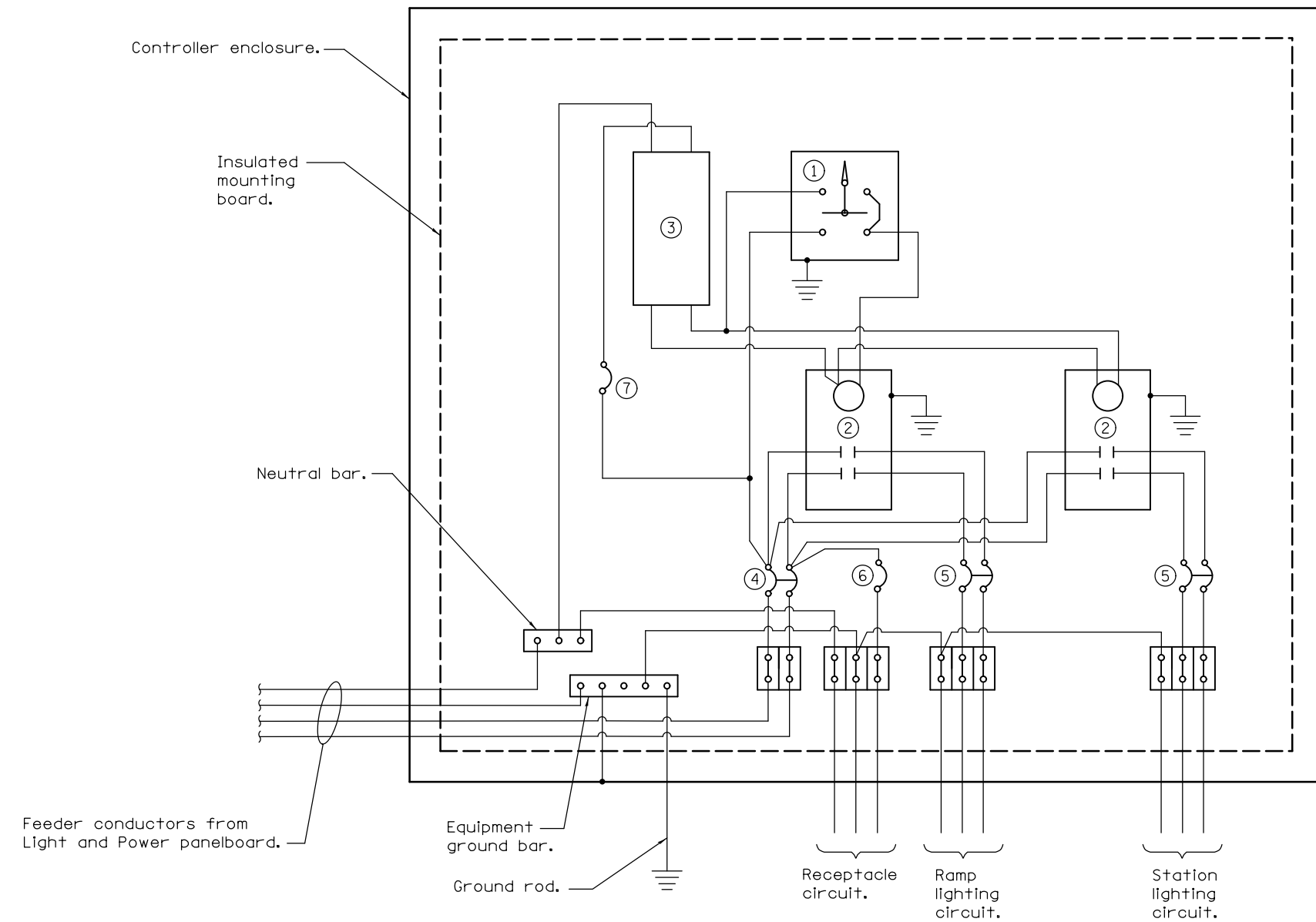
PROPOSED LIGHTING CIRCUIT 2
WESTBOUND WEIGH STATION



PROPOSED RECEPTACLE CIRCUIT
WESTBOUND WEIGH STATION

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CIRCUIT DIAGRAM			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0577\DRAWING\Design\0570818-sht-details.dgn					REVISIONS			74	(57-18)WS-3	MCLEAN	19	13
PLOT SCALE = 40.0000' / in.					CHECKED -	REVISED -	CONTRACT NO. 70B18					
PLOT DATE = 3/2/2015					DATE -	REVISED -	ILLINOIS FED. AID PROJECT					
				SCALE:			SHEET 1 OF 1 SHEETS			STA. TO STA.		

LIGHTING CONTROLLER WIRING DIAGRAM



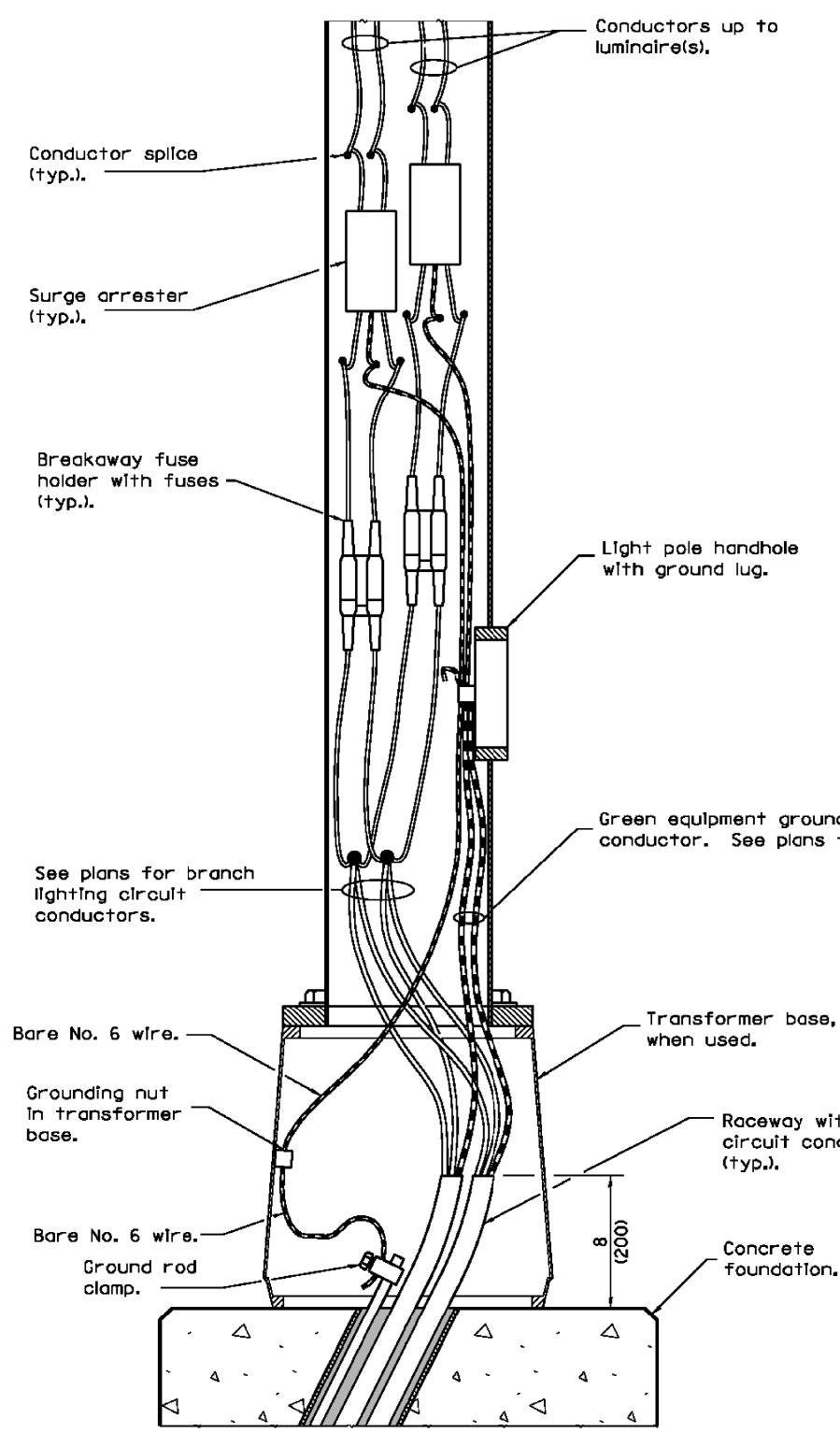
- ① HAND-OFF-AUTO selector switch for ramp lighting circuit, mounted to enclosure door.
 - ② 60 amp*, electrically held contactor.
 - ③ Timeclock with manual override switch.
 - ④ 50 amp*, 2-pole circuit breaker.
 - ⑤ 35 amp*, 2-pole circuit breaker.
 - ⑥ 20 amp*, 1-pole circuit breaker.
 - ⑦ 15 amp*, 1-pole circuit breaker.
- * Size larger as needed.

GENERAL NOTES

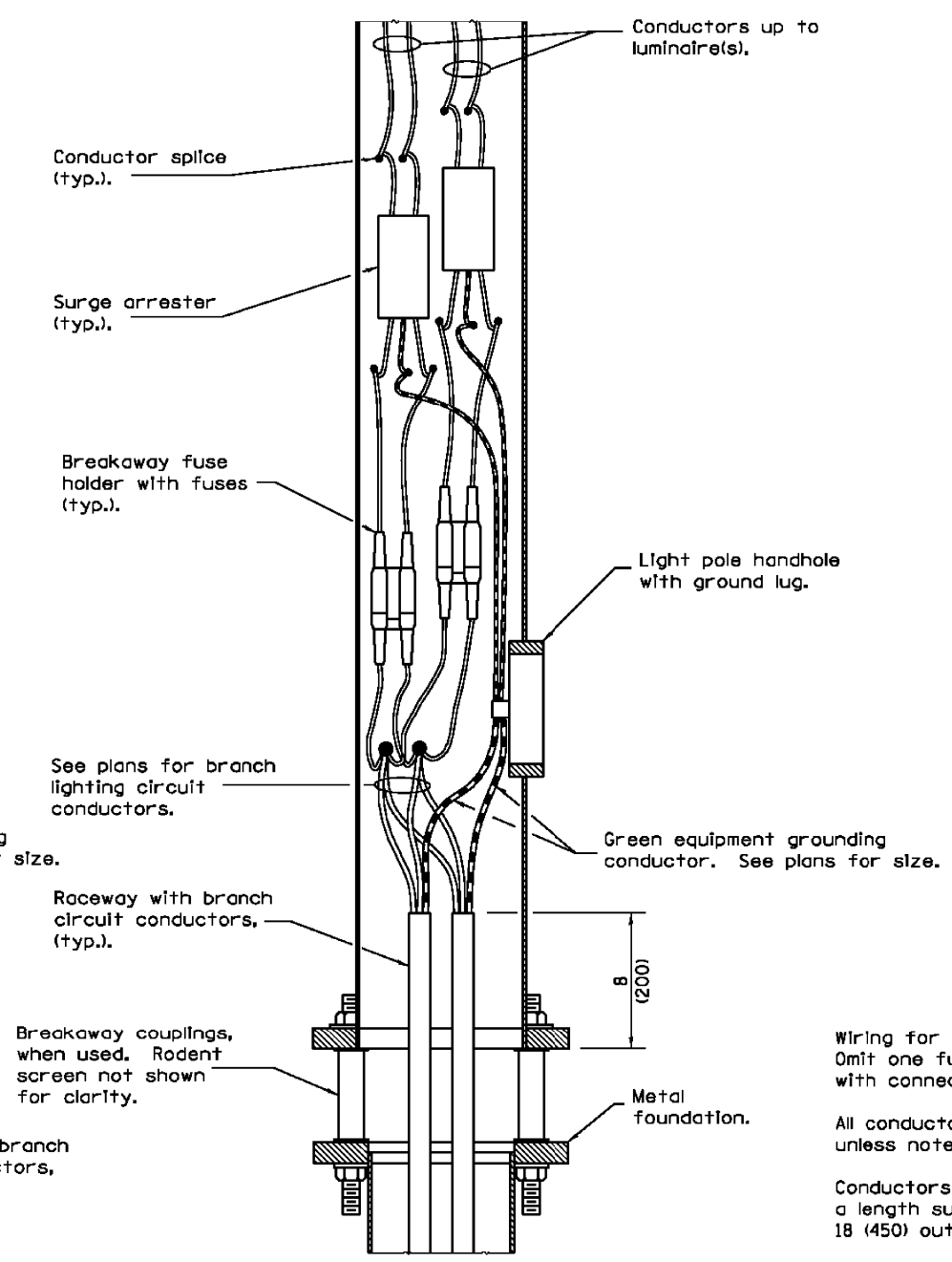
1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.
2. WIRING AND CONTROLS FOR EXISTING BLANK-OUT SIGN NOT SHOWN.
3. PROVIDE PHOTOCCELL OVERRIDE WIRING TO TIMECLOCK AS NEEDED. TIMECLOCK WIRING SHALL BE ACCORDING TO MANUFACTURER RECOMMENDATIONS.
4. THE CONTRACTOR SHALL VERIFY THE NEUTRAL CONDUCTOR IS GROUNDED AND BONDED IN THE EXISTING LIGHT AND POWER PANELBOARD ACCORDING TO ARTICLE 250 OF THE NEC.

CONTROL SCHEMATIC

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER WIRING DIAGRAM	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Design\0570818-sht-details.dgn						74	(57-18)WS-3	MCLEAN	19	14	
PLOT SCALE = 40.0000' / in.						CONTRACT NO. 70B18					
PLOT DATE = 3/2/2015						ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.					



ELEVATION AT POLE BASE WITH CONCRETE FOUNDATION



ELEVATION AT POLE BASE WITH METAL FOUNDATION
(Rodent screen not shown)

GENERAL NOTES

Wiring for twin luminaire installation shown. Omit one fuse holder and one surge arrester with connections for single luminaire installation.

All conductors originating in pole shall be No. 10 unless noted otherwise.

Conductors extended into light poles shall be of a length sufficient for splices to be withdrawn 18 (450) out of pole handhole.

Any voids in the foundation shall be filled with fine aggregate.

See Standard 836001 for Light Pole Foundation and ground rod.

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

Illinois Department of Transportation

PASSED January 1, 2015
Cheryl Cooney
 ENGINEER OF PRELIMINARY ENGINEERING

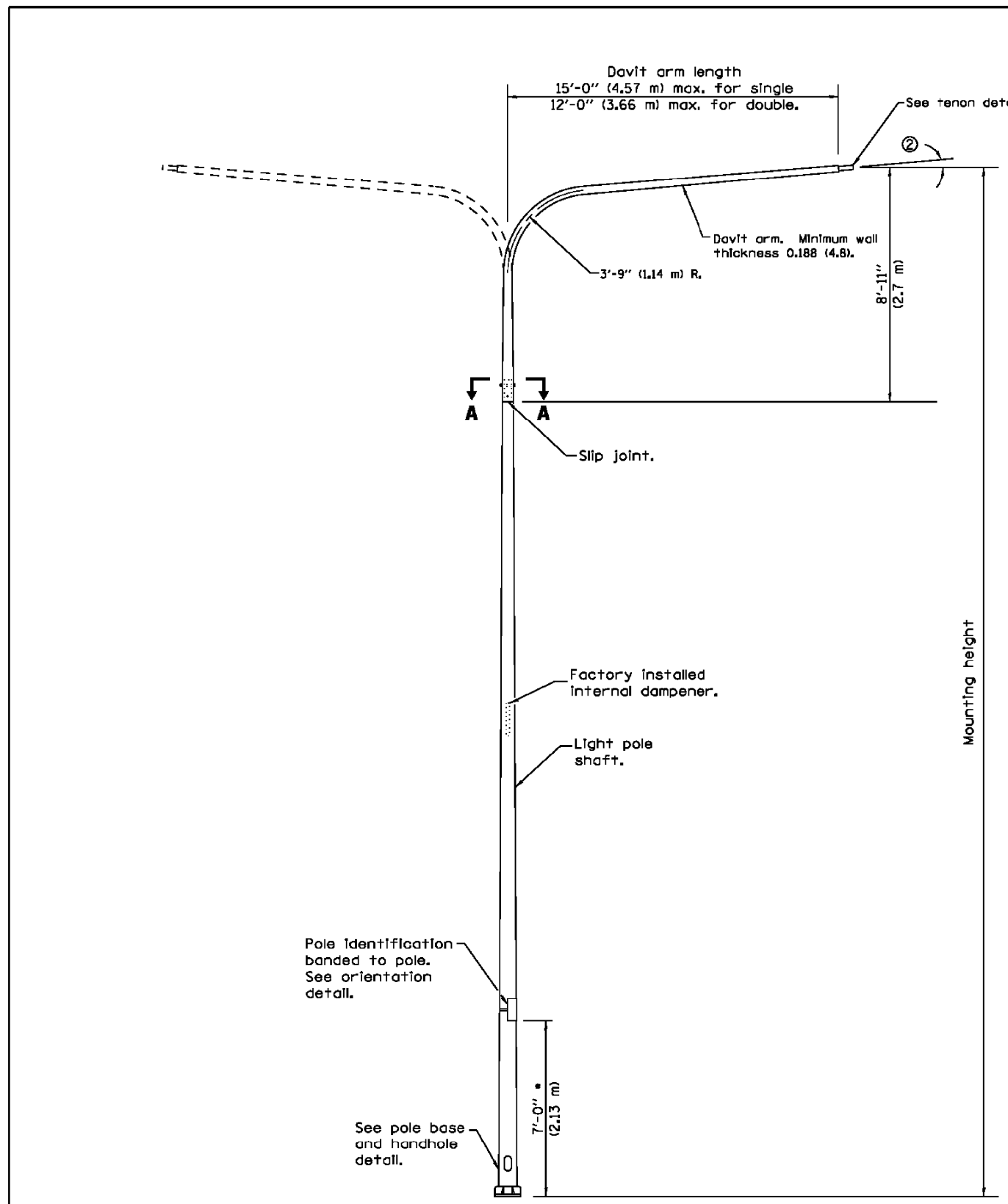
APPROVED January 1, 2015
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-14

DATE	REVISIONS
1-1-15	Changed 'protector' to 'arrester'.
1-1-14	New standard.

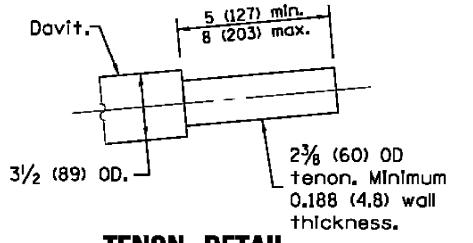
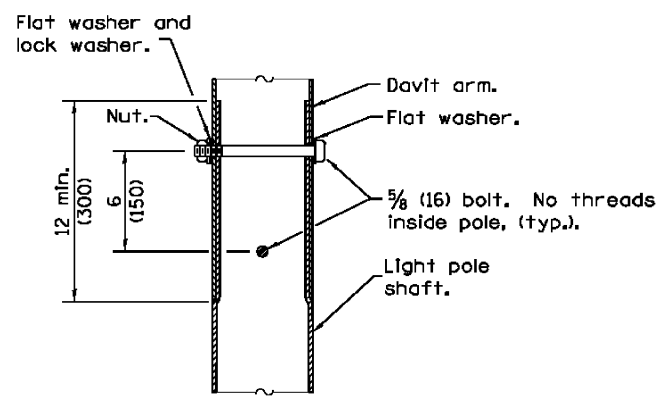
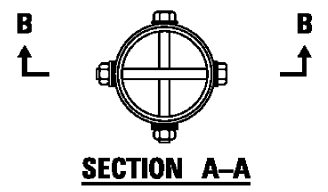
LUMINAIRE WIRING DIAGRAM

STANDARD 821101-01



POLE BASE	
MOUNTING HEIGHT	BOLT CIRCLE DIAMETER
35' (10.7 m) or less	11/2 (290)
Greater than 35' (10.7 m) to 50' (15.2 m)	15 (380)

POLE LOWER SHAFT			
MOUNTING HEIGHT	LOWER SHAFT LENGTH ①	MINIMUM SHAFT DIAMETER	MINIMUM WALL THICKNESS
30' (9.1 m)	21'-1" (6.4 m)	8 tapered to 6 (200 to 114)	0.25 (6)
35' (10.7 m)	26'-1" (7.9 m)	8 tapered to 6 (200 to 114)	0.25 (6)
40' (12.2 m)	31'-1" (9.5 m)	10 tapered to 6 (250 to 150)	0.25 (6)
45' (13.7 m)	36'-1" (11.0 m)	10 tapered to 6 (250 to 150)	0.25 (6)
50' (15.2 m)	41'-1" (12.5 m)	10 tapered to 6 (250 to 150)	0.312 (8)



- ① Lower shaft length shall be from the bottom of the pole base to the bottom of the slip joint.
- ② 5° max. for unloaded pole, 1.5° max. for loaded pole.

GENERAL NOTES

See Standard 836001 for Light Pole Foundation and grounding electrode.

See Standard 720001 for pole identification banding to pole.

voids in light pole base shall be sealed to prevent rodent entry.

Provide breakaway devices where required.

Where anchor rods on existing bridge parapets are too short to mount poles as shown, install leveling plate directly on concrete and level with stainless steel washers.

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

Illinois Department of Transportation

PASSED January 1, 2015
Cheryl Cooney
 ENGINEER OF PRELIMINARY ENGINEERING

ISSUED 1-1-12

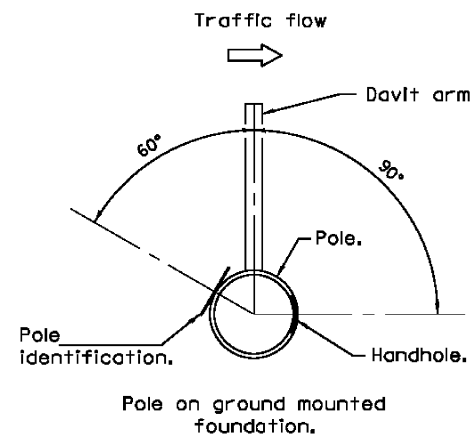
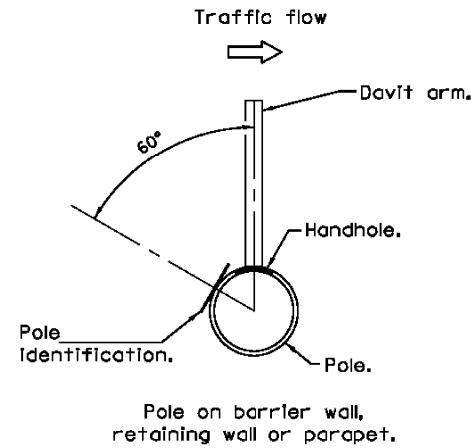
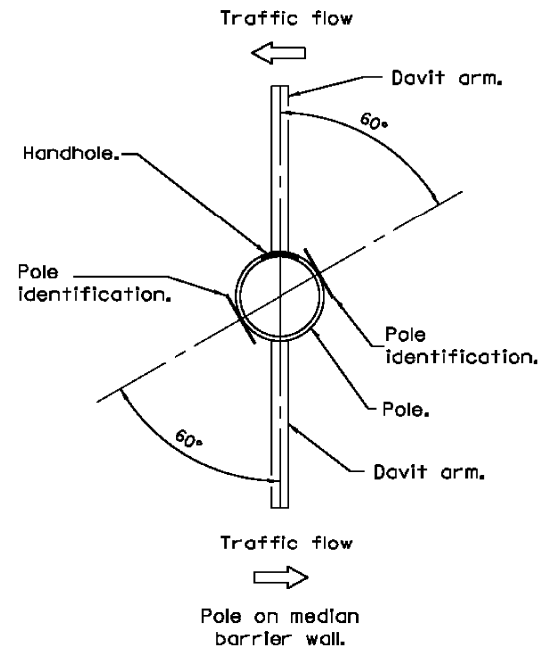
APPROVED January 1, 2015
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

DAVIT LIGHT POLE
 (Single or twin mount)
 • Unless directed otherwise by the Engineer.

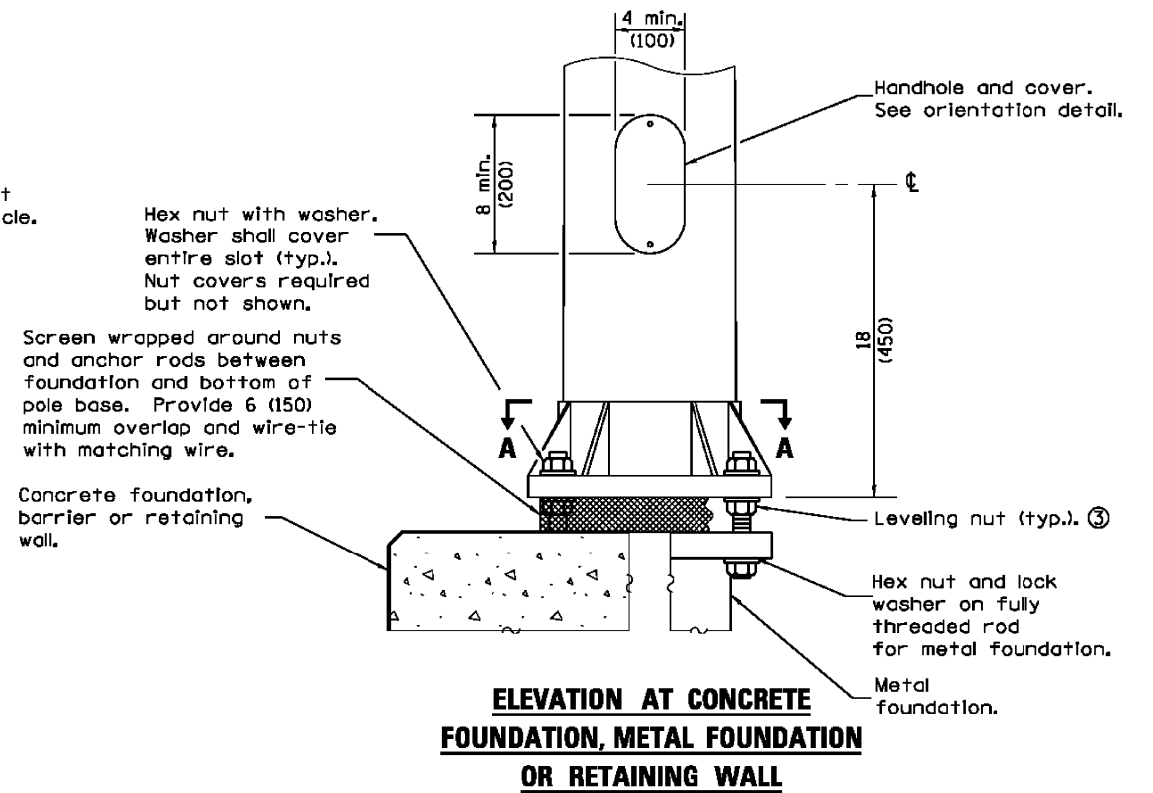
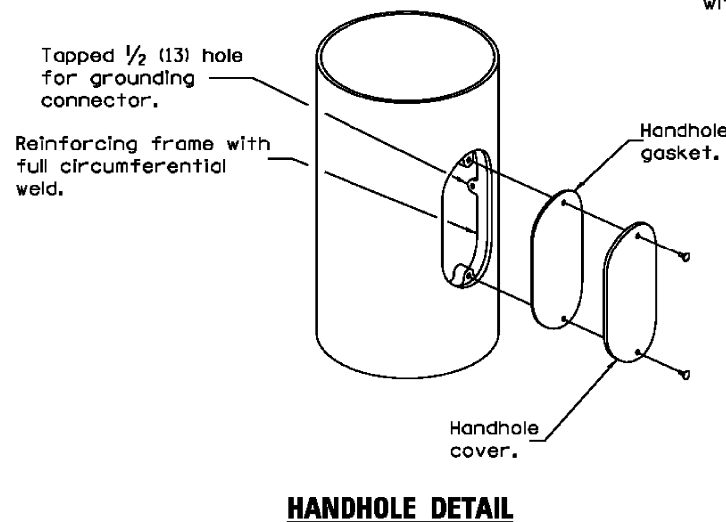
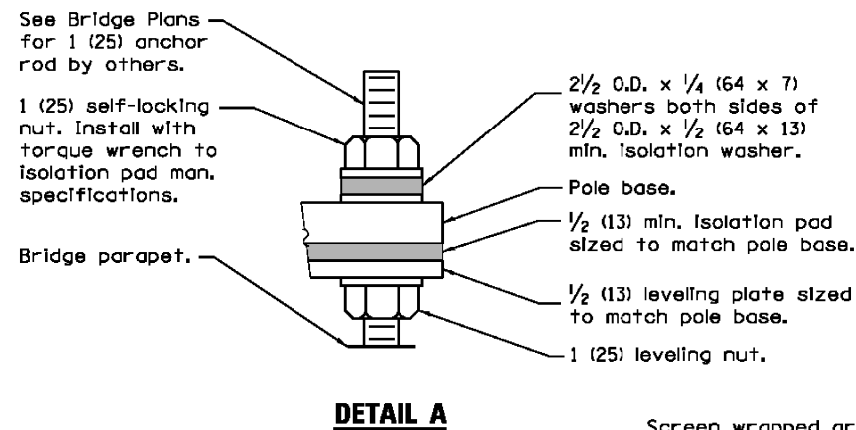
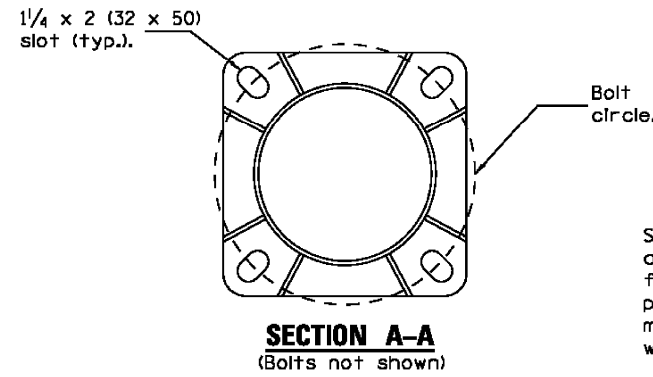
DATE	REVISIONS
1-1-15	Revised note on HANDHOLE DETAIL.
1-1-14	Added pole mounted on bridge parapet. Modified attachment of screen.

LIGHT POLE ALUMINUM DAVIT ARM
 (Sheet 1 of 2)

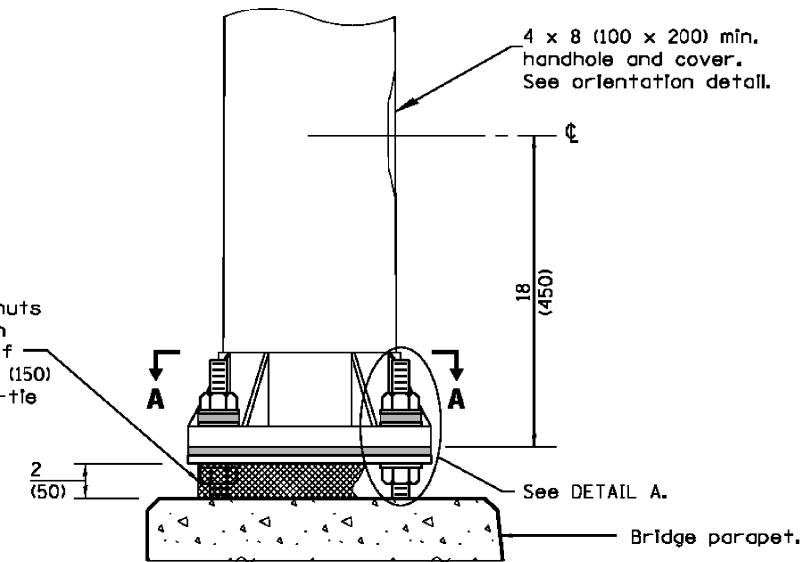
STANDARD 830006-03



HANDHOLE / IDENTIFICATION ORIENTATION DETAIL



ELEVATION AT CONCRETE FOUNDATION, METAL FOUNDATION OR RETAINING WALL



**ELEVATION AT BRIDGE PARAPET
POLE BASE DETAILS**

LIGHT POLE ALUMINUM DAVIT ARM
(Sheet 2 of 2)

STANDARD 830006-03

Illinois Department of Transportation	
PASSED January 1, 2015	ISSUED 1-1-12
ENGINEER OF PRELIMINARY ENGINEERING	
APPROVED January 1, 2015	
ENGINEER OF DESIGN AND ENVIRONMENT	

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\057\Drawings\Design\0570818-sht-Hwg5tds.dgn		DRAWN -	REVISED -
MODELNAME	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	DATE = 3/2/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

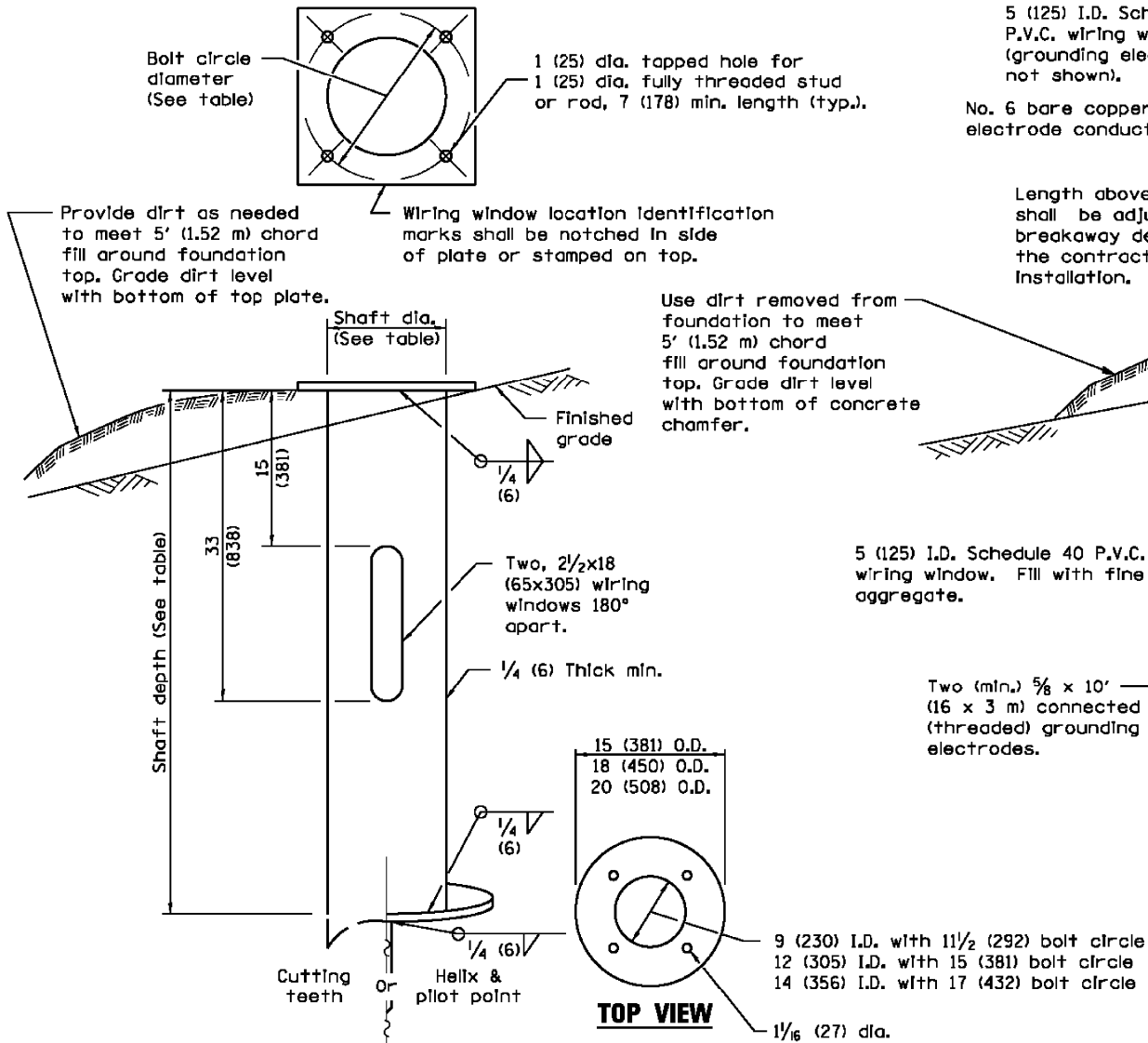
LIGHT POLE ALUMINUM DAVIT ARM

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-18)WS-3	MCLEAN	19	17
CONTRACT NO. 70B18			ILLINOIS FED. AID PROJECT	

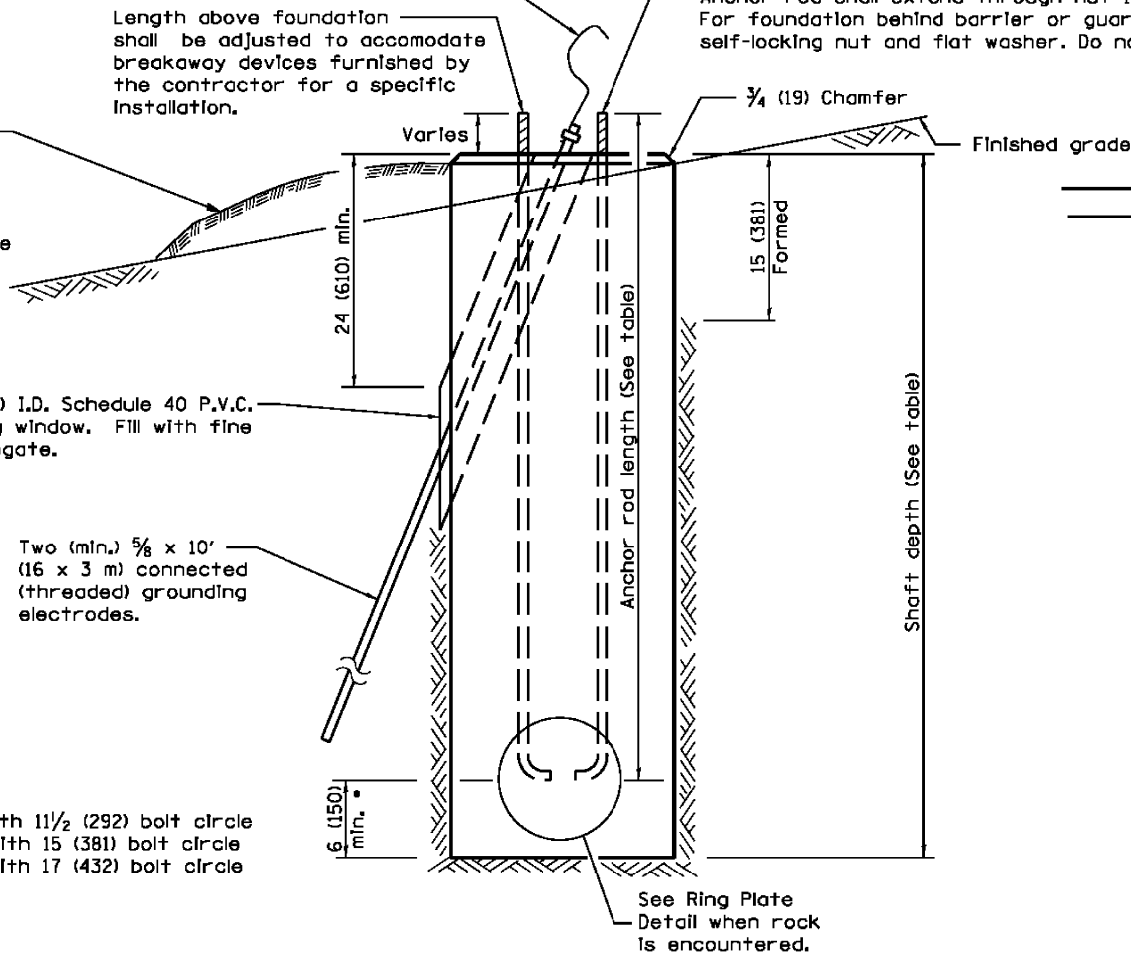
LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	METAL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
≤30' (9.1 m)	11 1/2 (292)	8 5/8 (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-0" (1.52 m)	4'-9" (1.45 m)
31'-35' (9.4 m - 10.7 m)	11 1/2 (292)	8 5/8 (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-6" (1.67 m)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15 (381) ③	8 5/8 (220)	6' (1.83 m) ②	15 x 15 x 1 1/4 (375 x 375 x 31)	30 (762)	6'-0" (1.83 m)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15 (381) ③	8 5/8 (220)	6' (1.83 m) ②	15 x 15 x 1 1/4 (375 x 375 x 31)	30 (762)	6'-6" (1.98 m)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15 (381) ③	8 5/8 (220)	8' (2.44 m)	15 x 15 x 1 1/4 (375 x 375 x 31)	30 (762)	7'-0" (2.13 m)	6'-9" (2.00 m)

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



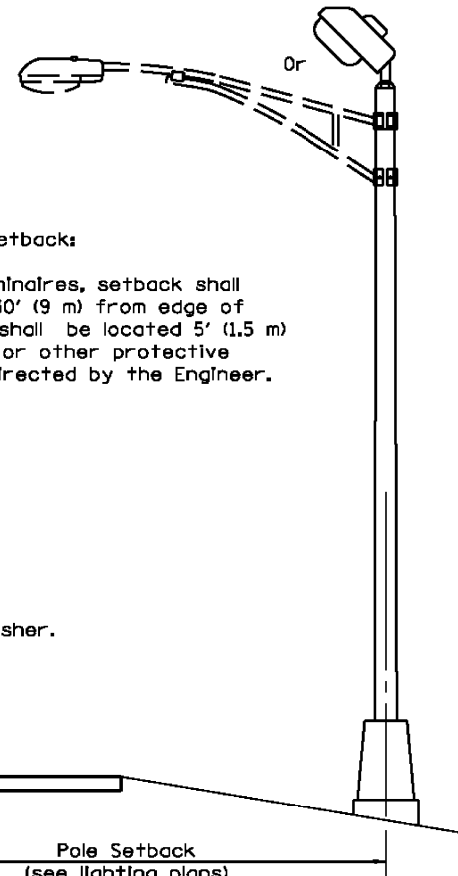
METAL FOUNDATION

RING PLATE DETAIL



CONCRETE FOUNDATION

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



GENERAL NOTES

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The Contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance of metal foundations and notify the Engineer if other conditions are encountered.

When rock is encountered the foundation depth may be reduced 6 (150) for every 12 (300) of embedment in rock. The minimum foundation depth shall be 4'-6" (1.37 m) with cut anchor rods 6 (150) above bottom of excavated hole. See ring plate detail.

Anchor rods shall be increased in diameter as needed for 50' (15.2 m) mounting height or above. The Contractor shall match the breakaway device size or slotted hole size in the pole base plate to accommodate larger rod sizes.

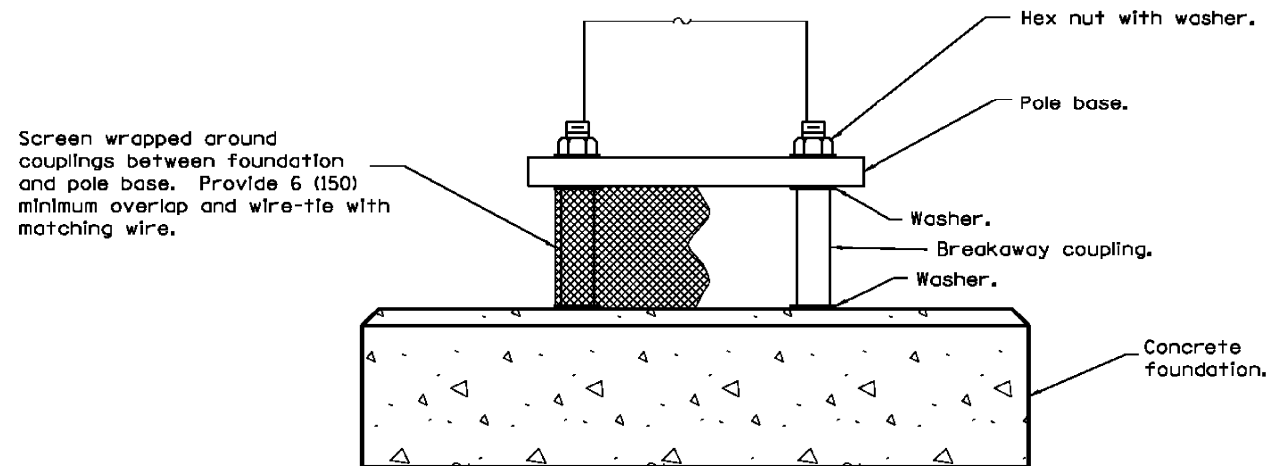
Transformer bases shall not be used on metal foundations.

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

DATE	REVISIONS
1-1-13	Revised concrete foundation notes, pole foundation setback notes, ring plate det.
1-1-12	Revised metal foundation wiring window dimensions.

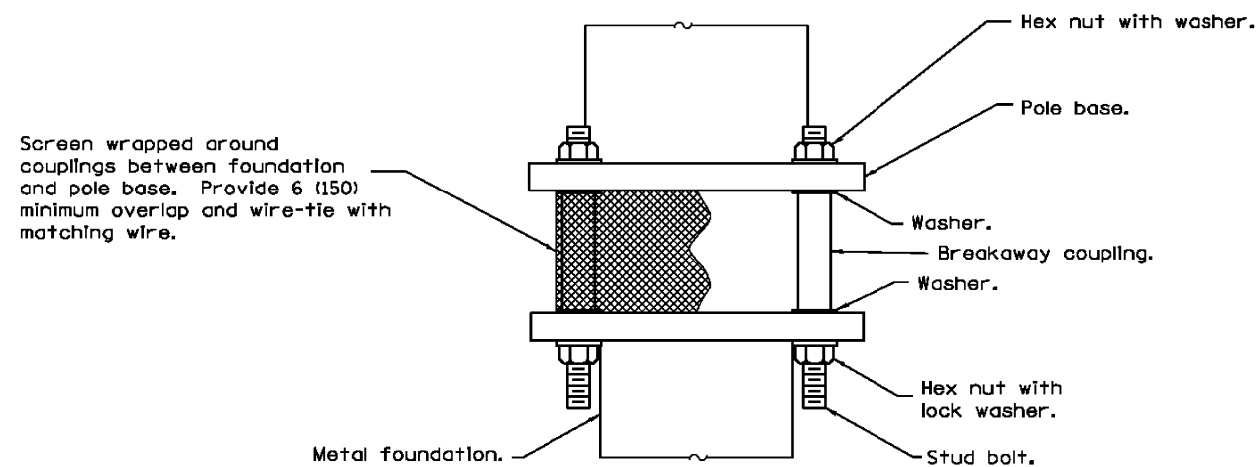
LIGHT POLE FOUNDATION

STANDARD 836001-02



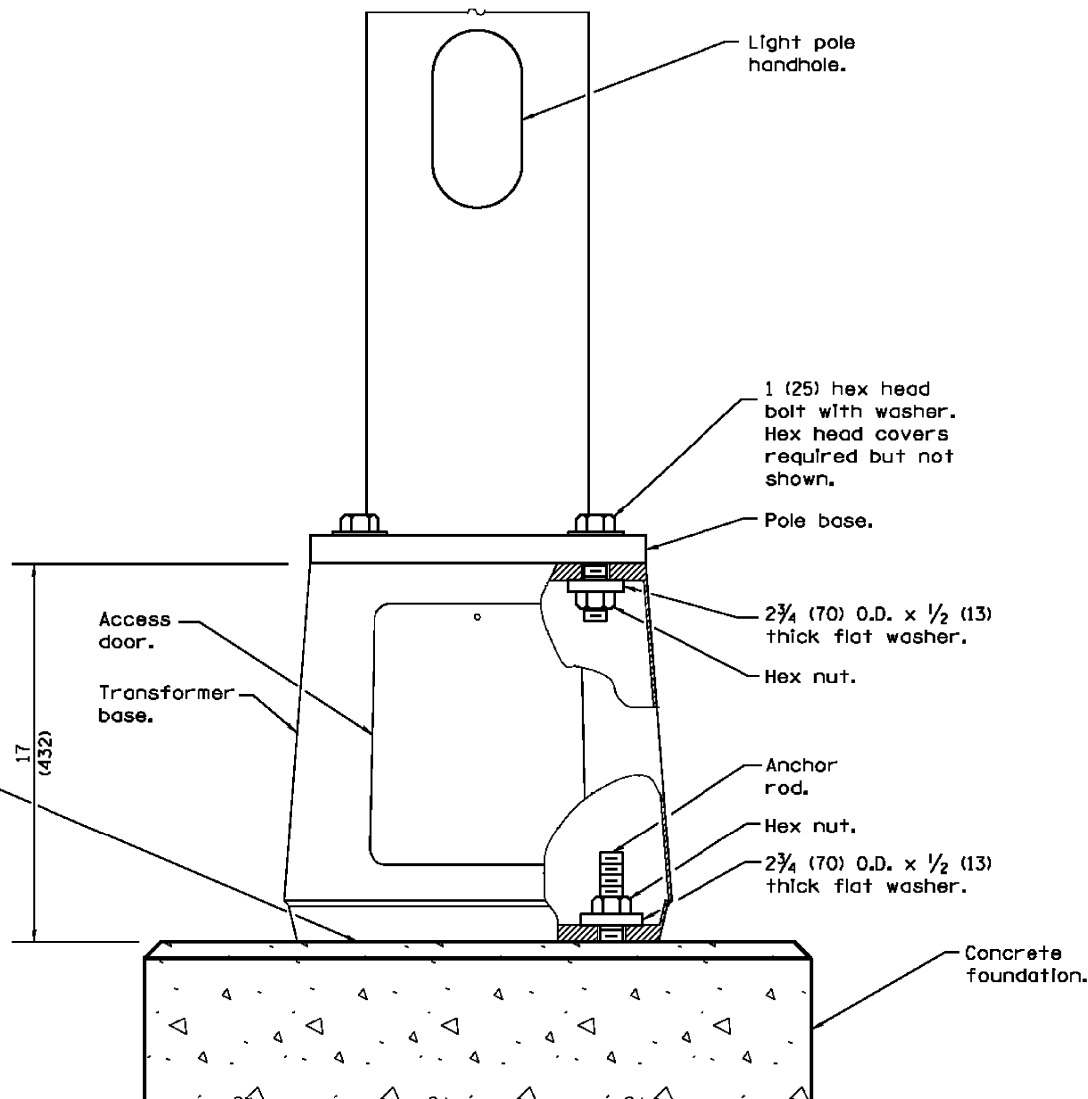
**BREAKAWAY COUPLINGS
ON CONCRETE FOUNDATION**

(Provide pole base skirt around screen when required.)



**BREAKAWAY COUPLINGS
ON METAL FOUNDATION**

(Provide pole base skirt around screen when required.)



BREAKAWAY TRANSFORMER BASE

GENERAL NOTES

- See light pole standard for details not shown.
- Use largest transformer base bolt circle possible.
- Transformer bases shall not be installed on metal foundations.
- Washers on top of pole base shall cover the entire bolt slot.
- See Standard 836001 for Light Pole Foundation.
- All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2014
Cheryl Cooney
 ENGINEER OF PRELIMINARY ENGINEERING

APPROVED January 1, 2014
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

DATE	REVISIONS
1-1-14	New Standard.

BREAKAWAY DEVICES

STANDARD 838001