

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

F.A.P. ROUTE 0369 (75th STREET / CH33):  
ADAMS STREET TO PLAINFIELD ROAD  
LIGHT POLE INSTALLATION AND ENHANCEMENTS  
SECTION 15-00233-07-LT  
PROJECT NO. CMM-4003(505)  
COUNTY OF DuPAGE

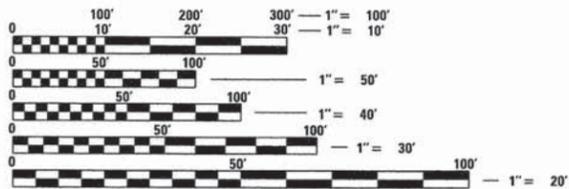
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	1
		ILLINOIS	CONTRACT NO. 61B79	



DESIGN DESIGNATION

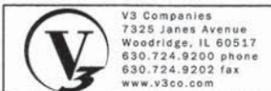
75th STREET - OTHER PRINCIPAL ARTERIAL  
(STRATEGIC REGIONAL ARTERIAL)  
DESIGN SPEED: 75th STREET = 45 MPH (45 MPH POSTED)  
CASS AVENUE = 45 MPH (40 MPH POSTED)  
PLAINFIELD ROAD = 45 MPH (40 MPH POSTED)  
2030 ADT: 75th STREET = 31,000  
CASS AVENUE = 27,000  
PLAINFIELD ROAD = 24,000

PROJECT LOCATED IN CITY OF DARIEN

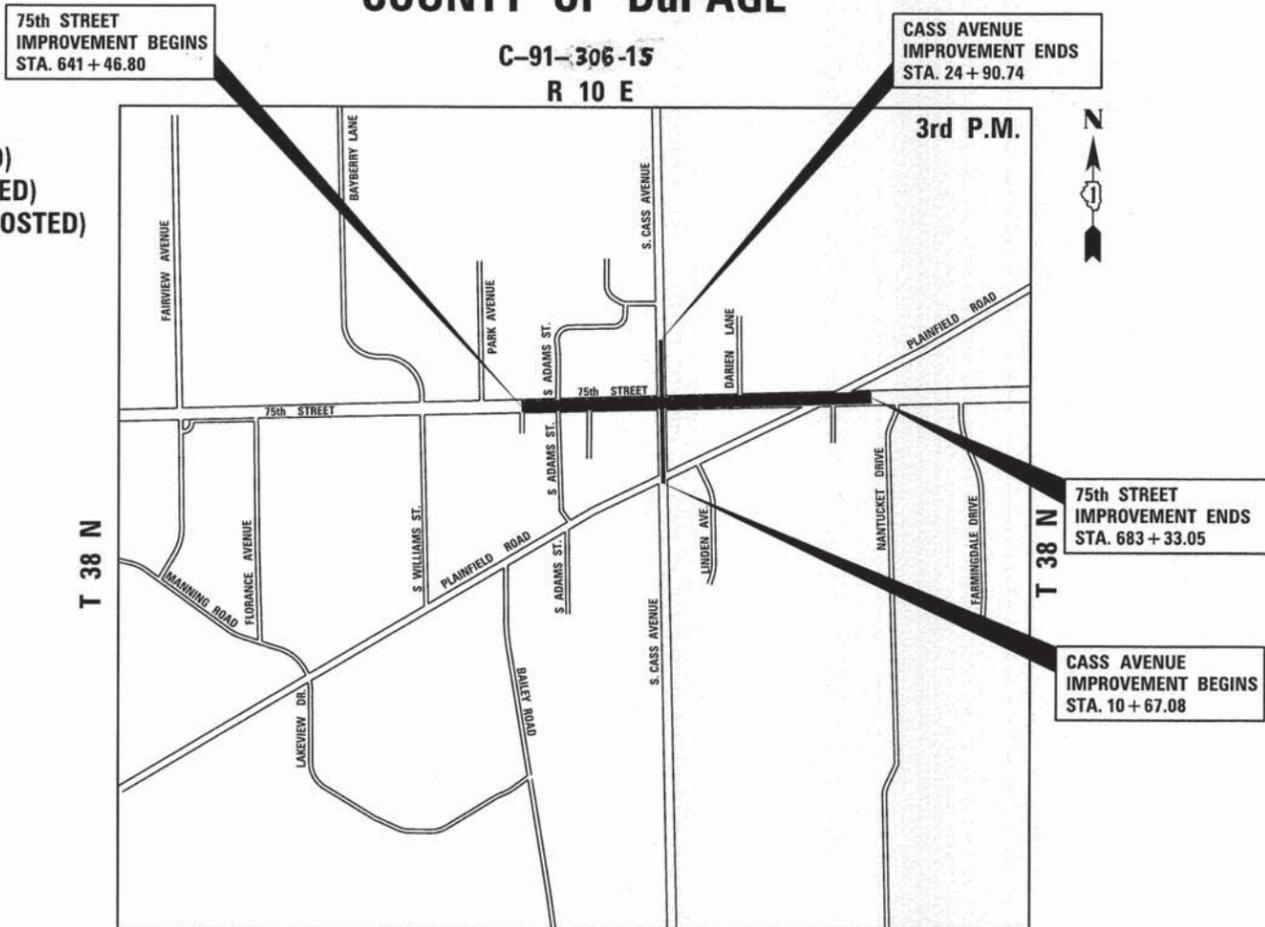


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



CONTRACT NO. 61B79



DOWNERS GROVE TOWNSHIP LOCATION MAP NOT TO SCALE

GROSS LENGTH OF 75th STREET = 4,186.25 FT. = 0.7929 MILE  
NET LENGTH OF 75th STREET = 4,186.25 FT. = 0.7929 MILE  
GROSS LENGTH OF CASS AVENUE = 1,423.66 FT. = 0.2697 MILE  
NET LENGTH OF CASS AVENUE = 1,423.66 FT. = 0.2697 MILE  
PROJECT TOTAL GROSS LENGTH = 5,609.91 FT. = 1.0625 MILE  
PROJECT TOTAL NET LENGTH = 5,609.91 FT. = 1.0625 MILE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	<i>May 4th</i> 2015 <i>Christopher Snyder</i> DU PAGE COUNTY ENGINEER
PASSED	<i>May 27</i> 2015 <i>Christopher Snyder</i> DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>May 28</i> 2015 <i>John F. ...</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E., 847-705-4021, SCHAUMBURG, IL

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**LIST OF HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
701101-04	OFF ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701427-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES
878001-10	CONCRETE FOUNDATION DETAILS

**LIST OF IDOT DISTRICT 1 STANDARDS (INCLUDED IN PLANS)**

BE220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE301	LIGHT POLE FOUNDATION, CONCRETE, <=35 FT, M.H. (11" B.C.)
BE310	LIGHT POLE FOUNDATION, OFFSET 40' (12.192m) TO 47.5' (14.478m) M.H. 15" (381mm) BOLT CIRCLE
BE702	MISCELLANEOUS ELECTRICAL DETAILS, SHEET A
TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC22	ARTERIAL ROAD INFORMATION SIGN

**LIST OF DUPAGE COUNTY DETAILS (INCLUDED IN PLANS)**

COMMERCIAL STREET LIGHT DETAILS
LIGHT POLE DETAIL
HANDHOLE DETAIL
POSITION OF HANDHOLE AND POLE NUMBER
TRANSFORMER BASE DETAILS

**GENERAL NOTES**

1. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY OR CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
2. FULL DEPTH SAW CUTS SHALL BE USED TO REMOVE EXISTING SIDEWALK OR BIKE PATH AND APPURTENANCES FROM MATERIAL TO REMAIN IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS. THE COST OF THE FULL DEPTH SAWING SHALL BE INCLUDED IN THE UNIT COST OF THE ITEM BEING REMOVED.
3. ALL UTILITIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 (48 HOURS NOTIFICATION REQUIRED).
4. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
5. ALL SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

SCHOOL DISTRICT 61 DR. ROBERT CARLO 7414 CASS AVENUE DARIEN, IL 60561 PHONE: (630)-968-7505	CITY OF DARIEN POLICE DEPARTMENT CHIEF ERNEST BROWN 1710 PLAINFIELD ROAD DARIEN, IL 60561 PHONE: (630)-971-3999	CITY OF DARIEN FIRE DEPARTMENT CHIEF DAVID LAMBRIGHT 7550 LYMAN AVENUE DARIEN, IL 60561 PHONE: (630)-910-2200
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6. UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
7. ALL EXCESS MATERIAL (BROKEN CONCRETE, CULVERT PIPE, WASTE ROADWAY EXCAVATION, SURPLUS MATERIAL FROM SEWER TRENCHES, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIAL AND BEGINNING CONSTRUCTION.
9. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 (REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE "MANUAL OF TEST PROCEDURES FOR MATERIALS".
10. ANY EXISTING SIDEWALK, CURB, PAVEMENT, AND/OR OTHER APPURTENANCES TO REMAIN AND IS DAMAGED DUE TO CONSTRUCTION SHALL BE REPLACED PROMPTLY AND IN COMPLIANCE WITH IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE EXPENSE.
11. WHENEVER, DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES ECT., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATION, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.
12. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONARY AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN AND PROTECT EXISTING UTILITIES, SEWERS, MAINS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES, SEWERS AND MAINS WHICH WILL REMAIN IN SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND UTILITY COMPANY IF IT IS DETERMINED THAT TEMPORARY BRACING OR SUPPORT OF THE UTILITIES IS REQUIRED. THE PROTECTION AND/OR TEMPORARY BRACING OR SUPPORT OF UTILITIES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
13. UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS SHOWN ON THE PLANS ARE BASED ON AVAILABLE SURVEYS AND AS-BUILT INFORMATION. THE LOCATION OF UNDERGROUND FACILITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO VERIFY ALL UTILITY LOCATION AND DEPTHS.

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC HIGHWAY STANDARDS AND PROTECTION SECTION 701 OF THE STANDARD SPECIFICATIONS.
2. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING TRAFFIC CONTROL DEVICES, LIGHTS, AND SIGNS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR HIGHWAY STANDARDS 701421, 701606, 701701 AND 701801.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS TO REMAIN DURING CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL PERFORM ALL WORK BETWEEN THE WEEKDAY HOURS OF 9:00AM AND 3:30PM, UNLESS OTHERWISE ALLOWED BY THE ENGINEER.



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Woodridge, IL 60517  
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www.v3co.com

USER NAME = jbauer	DESIGNED - JDH	REVISED - ---
	DRAWN - DRP	REVISED - ---
PLOT SCALE = 1:8000 @ 1/4" = 100'	CHECKED - VJD	REVISED - ---
PLOT DATE = 4/30/2015	DATE - 05/04/15	REVISED - ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS / HIGHWAY STANDARDS / GENERAL NOTES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	2
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	

ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% CITY OF DARIEN	100% CITY OF DARIEN
				LIGHTING	LIGHTING
				0021	NON-PARTICIPATING
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10	10	
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	500	500	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	7	7	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	7	7	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	7	7	
25200100	SODDING	SQ YD	500	500	
25200200	SUPPLEMENTAL WATERING	UNIT	75	75	
* 35101582	AGGREGATE BASE COURSE, TYPE B 2"	SQ YD	23	23	
* 35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	23	23	
* 40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1	1	
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	200	200	
* 44000600	SIDEWALK REMOVAL	SQ FT	200	200	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	62	62	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
67100100	MOBILIZATION	LSUM	1	1	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	

\* SPECIALTY ITEM  $\Delta$  SPECIAL PROVISION



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USER NAME: jbauer  
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DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15  
REVISIONS:  
REVISED - ---  
REVISED - ---  
REVISED - ---  
REVISED - ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

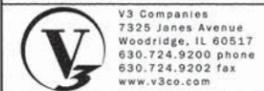
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT		33	3
CONTRACT NO. 61B79				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% CITY OF DARIEN	100% CITY OF DARIEN
				LIGHTING 0021	LIGHTING NON-PARTICIPATING
80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1	1	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	2,803	2,803	
81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	1,309	1,309	
81400100	HANDHOLE	EACH	7	7	
81603078	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	6,717	6,717	
81603085	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	3,698	3,698	
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	180	180	
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1	1	
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	16	16	
83050910	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS	EACH	5	5	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	488	488	
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	39	39	
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	5	5	
84200804	REMOVAL OF POLE FOUNDATION	EACH	3	3	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	4	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	750	750	
X0326617	PAINTING LIGHT POLE UNIT	EACH	21		21
X0327036	BIKE PATH REMOVAL	SQ YD	23	23	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100	
X8211125	LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	75	75	
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	26	26	

\* SPECIALTY ITEM    ▲ SPECIAL PROVISION



USER NAME = #USERS	DESIGNED - JDH	REVISED - ---
PLOT SCALE = #SCALE#	DRAWN - DRP	REVISED - ---
PLOT DATE = 5/1/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

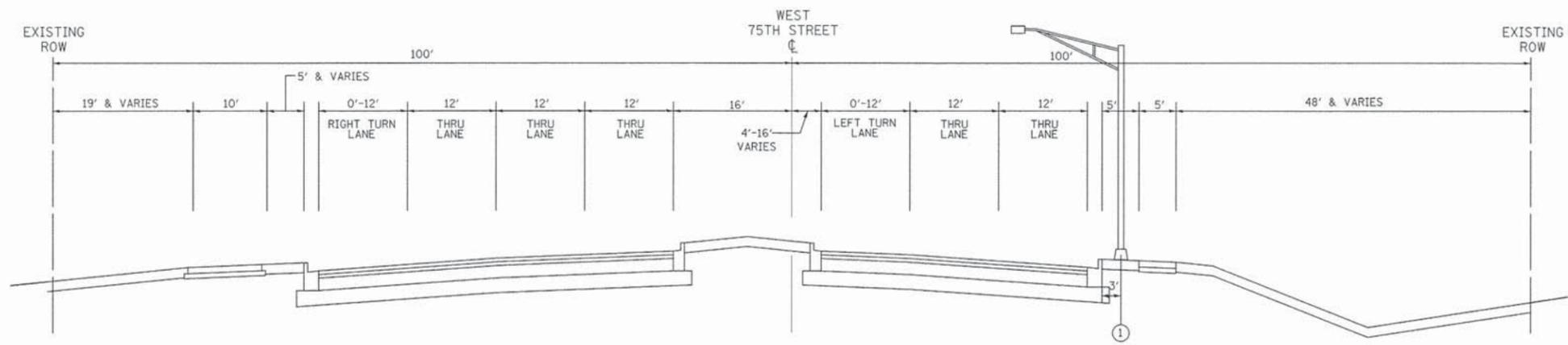
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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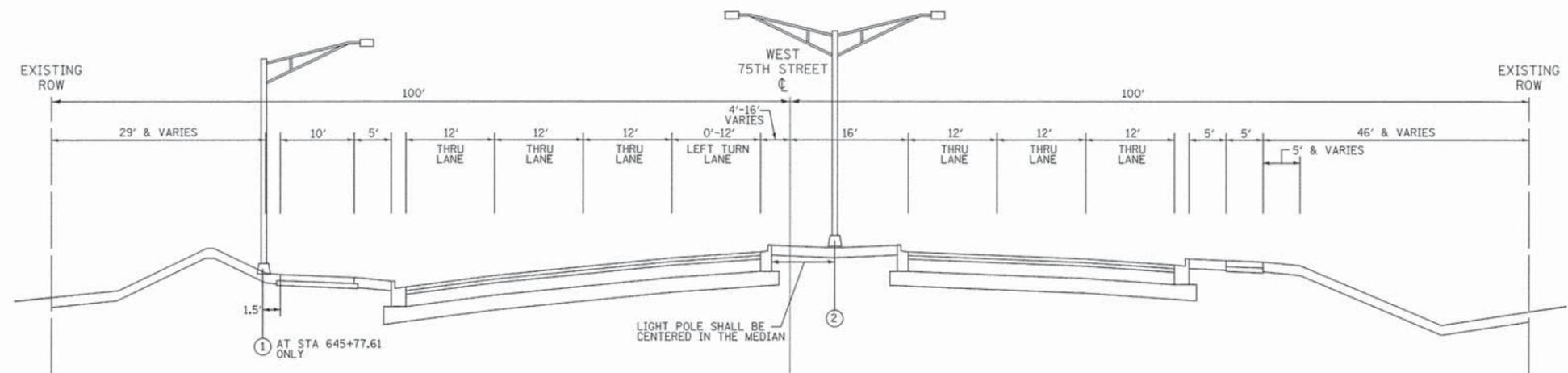
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT		33	4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	





**PROPOSED TYPICAL SECTION NO. 1  
75TH STREET**

STA 641+46.80 TO STA 644+73.55 (ADAMS STREET)



**PROPOSED TYPICAL SECTION NO. 2  
75TH STREET**

STA 644+73.55 (ADAMS STREET) TO STA 650+00.00

**LEGEND**

- ① EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
- ② EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW DOUBLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
- ③ PROPOSED STREET LIGHT POLE (ALUMINUM), DARK BRONZE POWDER COAT FINISH, WITH SINGLE L.E.D. ROADWAY LUMINAIRE, 47.5' MOUNTING HEIGHT, 15' MAST ARM DOUBLE L.E.D. DECORATIVE LUMINAIRE, 20' MOUNTING HEIGHT
- ④ PROPOSED STREET LIGHT POLE (ALUMINUM), DARK BRONZE POWDER COAT FINISH, WITH DOUBLE L.E.D. ROADWAY LUMINAIRE, 47.5' MOUNTING HEIGHT, 15' MAST ARM DOUBLE L.E.D. DECORATIVE LUMINAIRE, 20' MOUNTING HEIGHT



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USER NAME = jholy	DESIGNED - JDH	REVISED - ---
PLLOT SCALE = 1/8"	DRAWN - DRP	REVISED - ---
PLLOT DATE = 5/21/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

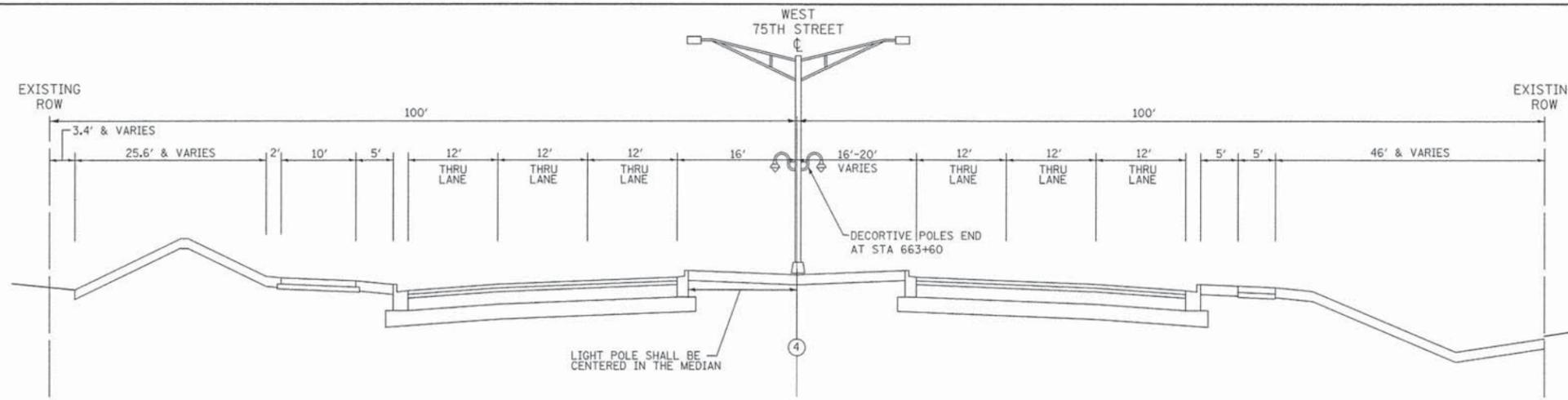
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS - 75TH STREET**

SCALE: 1/8"=10' SHEET NO. 1 OF 5 SHEETS

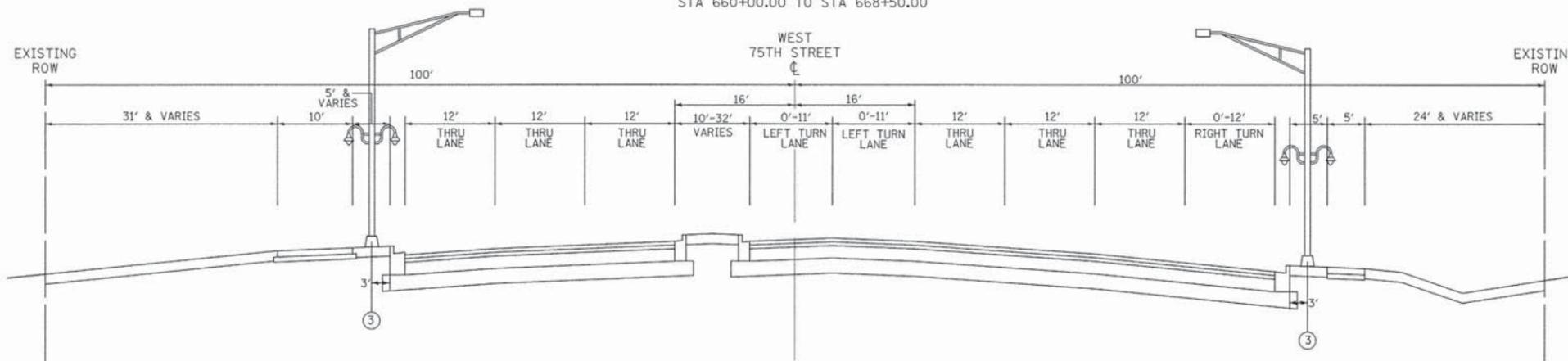
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	6
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61B79



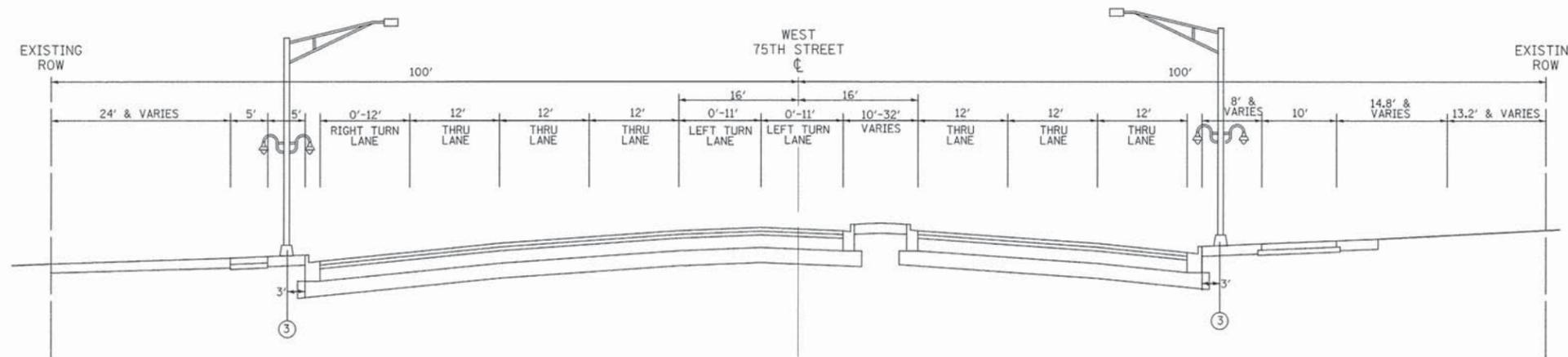
**PROPOSED TYPICAL SECTION NO. 3  
75TH STREET**

STA 650+00.00 TO STA 652+00.00  
STA 660+00.00 TO STA 668+50.00



**PROPOSED TYPICAL SECTION NO. 4  
75TH STREET**

STA 652+00.00 TO STA 656+22.96 (CASS AVE)



**PROPOSED TYPICAL SECTION NO. 5  
75TH STREET**

STA 656+22.96 (CASS AVE) TO STA 660+00.00

**LEGEND**

- ① EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
- ② EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW DOUBLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
- ③ PROPOSED STREET LIGHT POLE (ALUMINUM), DARK BRONZE POWDER COAT FINISH, WITH SINGLE L.E.D. ROADWAY LUMINAIRE, 47.5' MOUNTING HEIGHT, 15' MAST ARM DOUBLE L.E.D. DECORATIVE LUMINAIRE, 20' MOUNTING HEIGHT
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USER NAME = jholy  
DESIGNED - JDH  
DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15

PLOT SCALE = 1/8"  
PLOT DATE = 5/21/2015

REVISED - ---  
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REVISED - ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

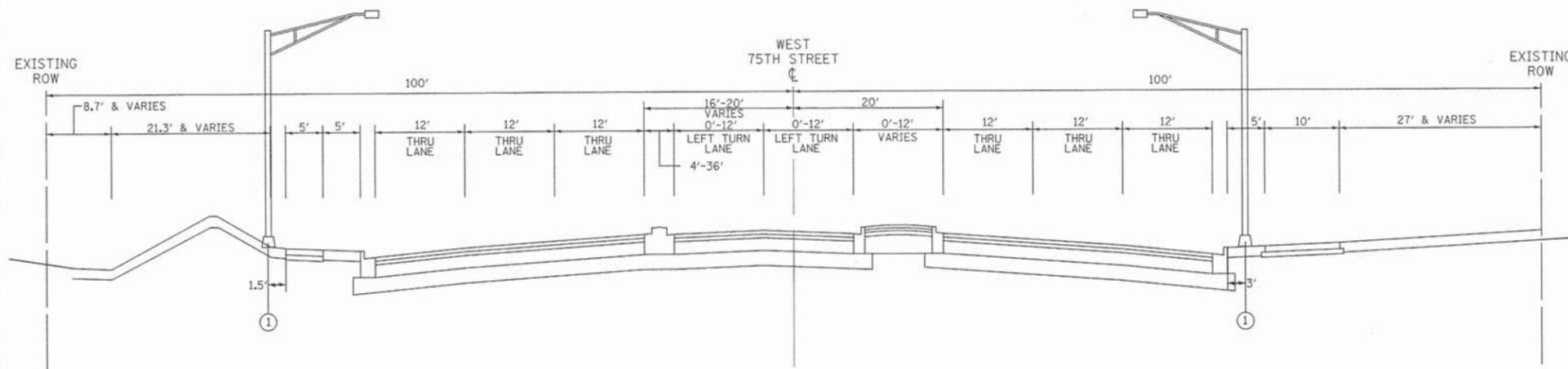
PROPOSED TYPICAL SECTIONS - 75TH STREET

SCALE: 1/4"=10'

SHEET NO. 2 OF 5 SHEETS

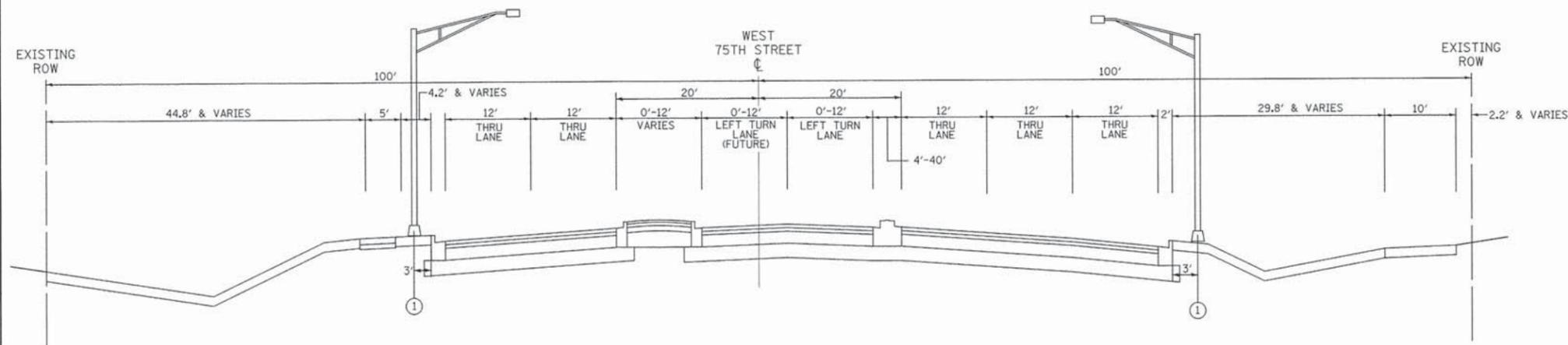
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	7
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	



**PROPOSED TYPICAL SECTION NO. 6**  
**75TH STREET**

STA 668+50.00 TO STA 674+55.14 (PLAINFIELD RD)



**PROPOSED TYPICAL SECTION NO. 7**  
**75TH STREET**

STA 674+55.14 (PLAINFIELD RD) TO STA 683+33.05

**LEGEND**

- ① EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
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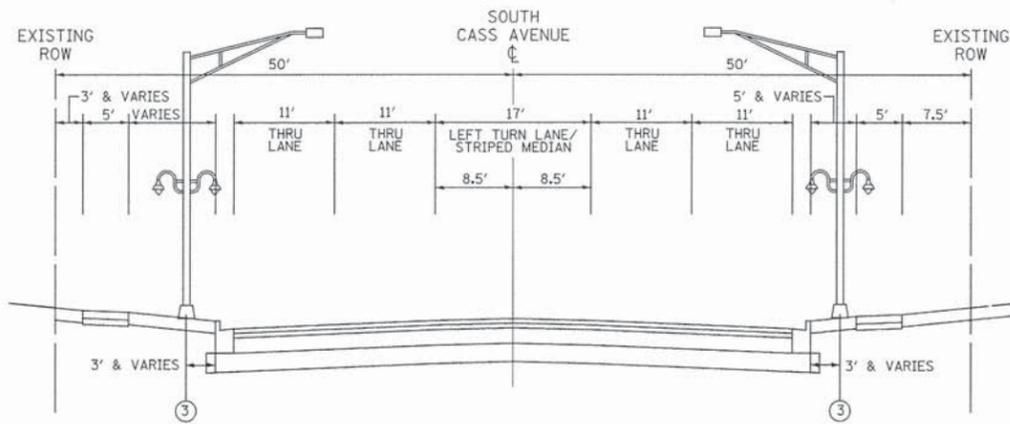
V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = jholly	DESIGNED - JDH	REVISED - ---
	PLOT SCALE = 1/8"	DRAWN - DRP	REVISED - ---
	PLOT DATE = 5/21/2015	CHECKED - VJD	REVISED - ---
		DATE - 05/04/15	REVISED - ---

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS - 75TH STREET**

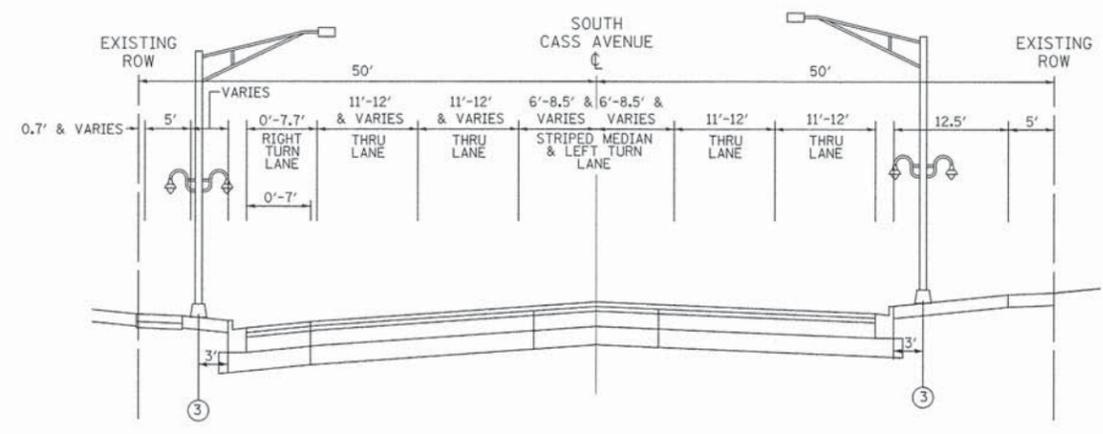
SCALE: 1"=10' SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	8
				CONTRACT NO. 61B79
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



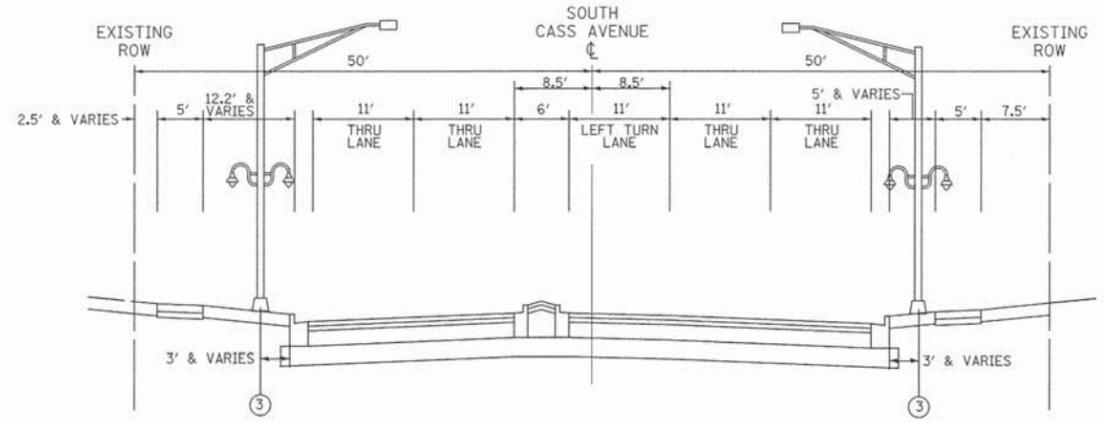
**PROPOSED TYPICAL SECTION NO. 1  
CASS AVENUE**

STA 10+67.08 TO STA 16+83.46



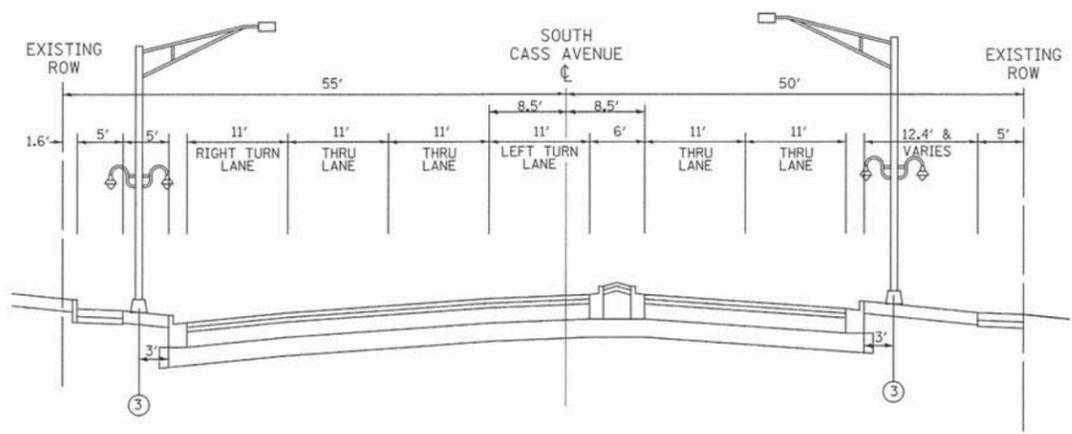
**PROPOSED TYPICAL SECTION NO. 4  
CASS AVENUE**

STA 24+00.00 TO STA 24+90.74



**PROPOSED TYPICAL SECTION NO. 2  
CASS AVENUE**

STA 16+83.46 TO STA 19+99.92 (75TH ST)

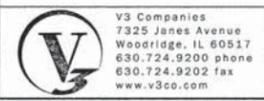


**PROPOSED TYPICAL SECTION NO. 3  
CASS AVENUE**

STA 19+99.92 (75TH ST) TO STA 24+00.00

**LEGEND**

- ① EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
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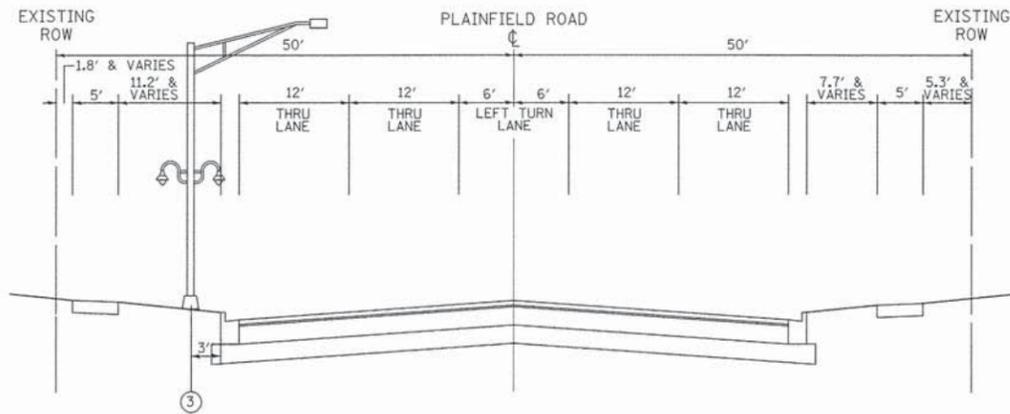


USER NAME = jholy	DESIGNED - JDH	REVISED - ---
PLLOT SCALE = 1/8"	DRAWN - DRP	REVISED - ---
PLLOT DATE = 5/21/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

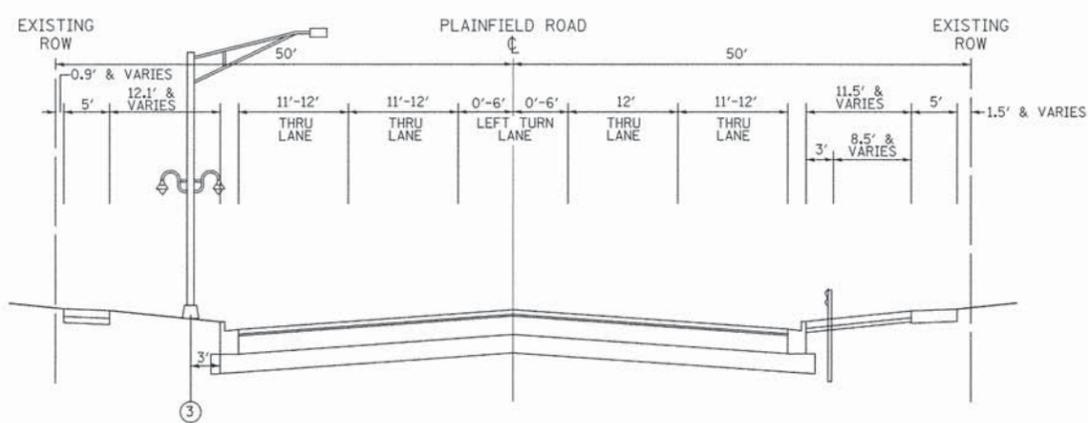
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS - CASS AVENUE**  
SCALE: 1"=10' SHEET NO. 4 OF 5 SHEETS STA. TO STA.

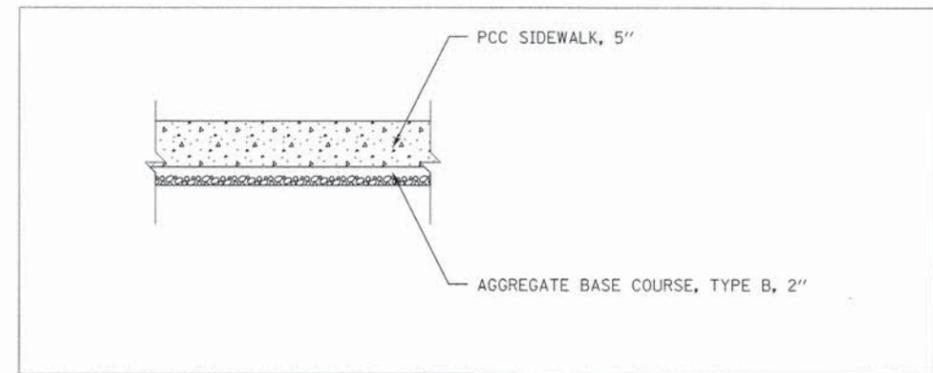
F.A.P. RTE. 0369	SECTION 15-00233-07-LT	COUNTY DU PAGE	TOTAL SHEETS 33	SHEET NO. 9
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



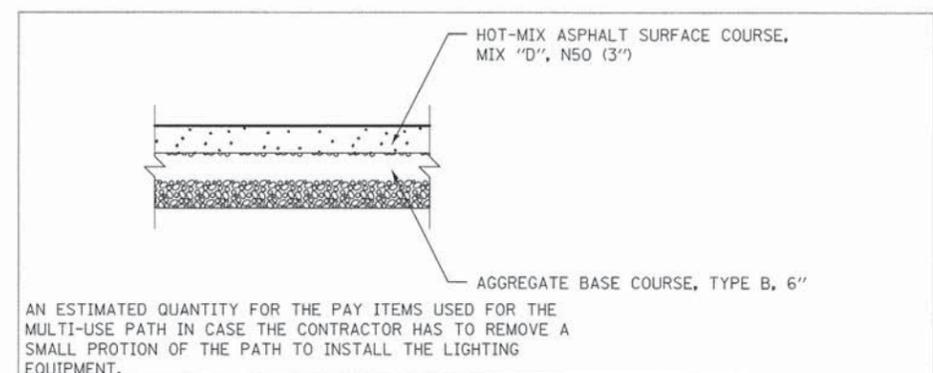
**PROPOSED TYPICAL SECTION NO. 1  
PLAINFIELD ROAD**  
STA 27+50.00 TO STA 29+69.05 (CASS AVE)



**PROPOSED TYPICAL SECTION NO. 2  
PLAINFIELD ROAD**  
STA 29+69.05 (CASS AVE) TO STA 32+00.00



**PCC SIDEWALK  
DETAIL**



**MULTI USE PATH  
DETAIL**

**HMA NOTES:**

- ① UNIT WEIGHT USED TO CALCULATE MOST HOT-MIX ASPHALT MIXTURES IS 112 LBS/SQ YD/IN.
- ② THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

**HOT-MIX ASPHALT REQUIREMENTS**

MIXTURE TYPE	VOIDS
MULTI USE PATH	
HMA SURFACE COURSE, MIX "D", N50, 3"	4% @ 50 GYR

**LEGEND**

- ① EXISTING STREET LIGHT POLE (ALUMINUM), SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
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USER NAME = jholy	DESIGNED - JDH	REVISED - ---
PLDT SCALE = 1/8"	DRAWN - DRP	REVISED - ---
PLDT DATE = 5/21/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

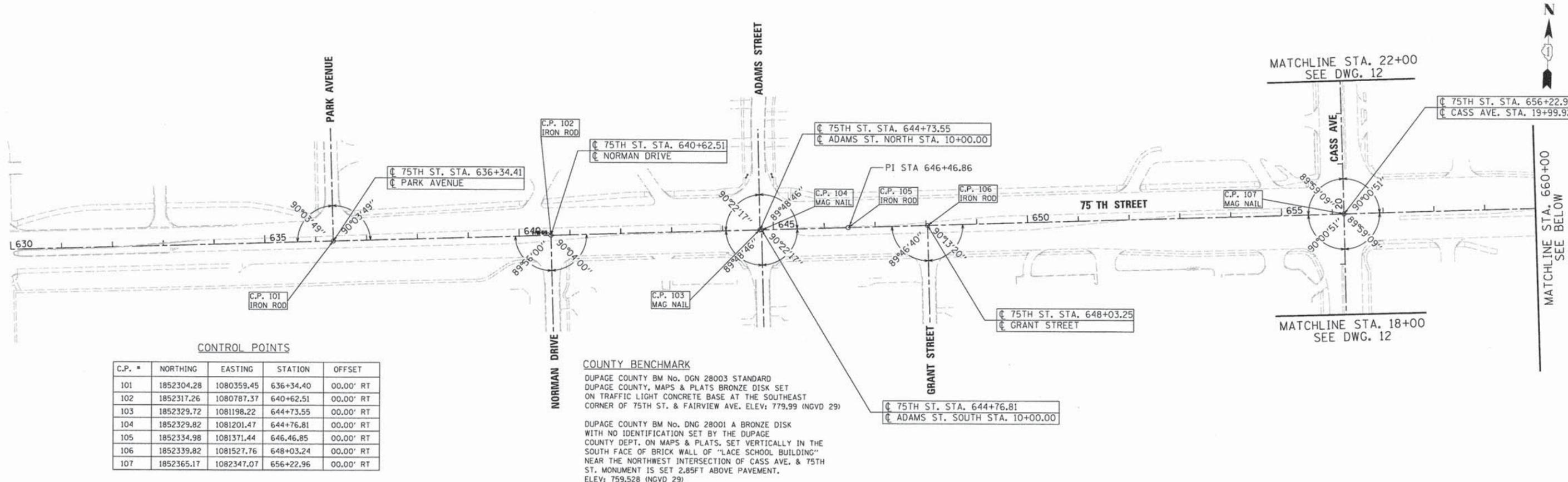
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS - PLAINFIELD ROAD**

SCALE: 1"=10' SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 0369	SECTION 15-00233-07-LT	COUNTY DU PAGE	TOTAL SHEETS 33	SHEET NO. 10
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61B79

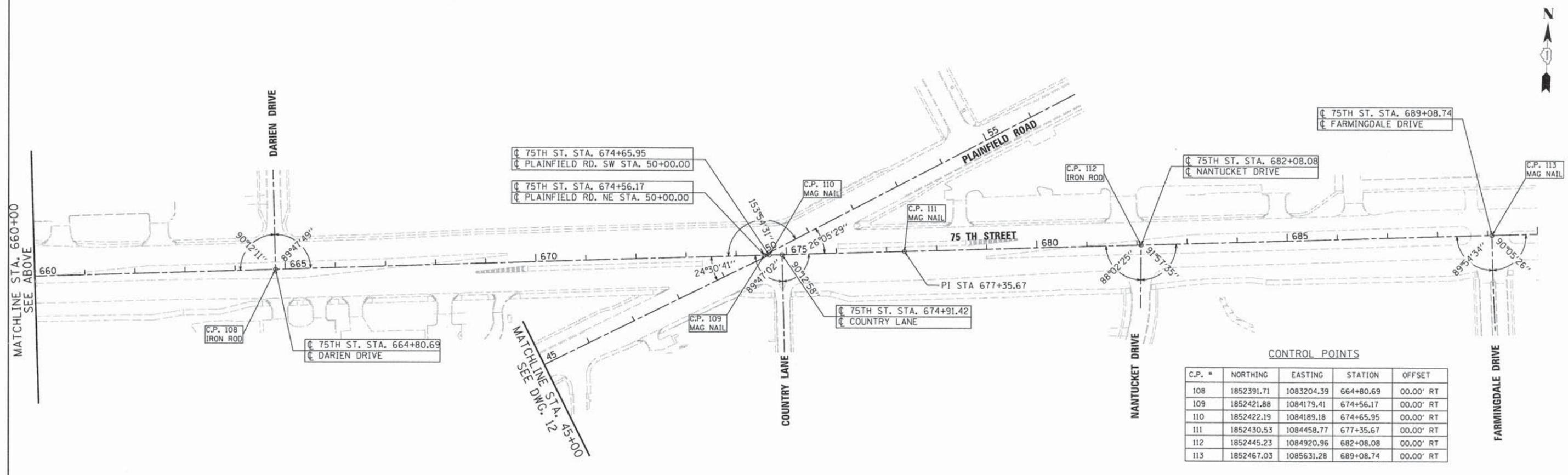


**CONTROL POINTS**

C.P. #	NORTHING	EASTING	STATION	OFFSET
101	1852304.28	1080359.45	636+34.40	00.00' RT
102	1852317.26	1080787.37	640+62.51	00.00' RT
103	1852329.72	1081198.22	644+73.55	00.00' RT
104	1852329.82	1081201.47	644+76.81	00.00' RT
105	1852334.98	1081371.44	646.46.85	00.00' RT
106	1852339.82	1081527.76	648+03.24	00.00' RT
107	1852365.17	1082347.07	656+22.96	00.00' RT

**COUNTY BENCHMARK**  
 DUPAGE COUNTY BM No. DGN 28003 STANDARD  
 DUPAGE COUNTY, MAPS & PLATS BRONZE DISK SET  
 ON TRAFFIC LIGHT CONCRETE BASE AT THE SOUTHEAST  
 CORNER OF 75TH ST. & FAIRVIEW AVE. ELEV: 779.99 (INGVD 29)

DUPAGE COUNTY BM No. DNG 28001 A BRONZE DISK  
 WITH NO IDENTIFICATION SET BY THE DUPAGE  
 COUNTY DEPT. ON MAPS & PLATS, SET VERTICALLY IN THE  
 SOUTH FACE OF BRICK WALL OF "LACE SCHOOL BUILDING"  
 NEAR THE NORTHWEST INTERSECTION OF CASS AVE. & 75TH  
 ST. MONUMENT IS SET 2.85FT ABOVE PAVEMENT.  
 ELEV: 759.528 (INGVD 29)



**CONTROL POINTS**

C.P. #	NORTHING	EASTING	STATION	OFFSET
108	1852391.71	1083204.39	664+80.69	00.00' RT
109	1852421.88	1084179.41	674+56.17	00.00' RT
110	1852422.19	1084189.18	674+65.95	00.00' RT
111	1852430.53	1084458.77	677+35.67	00.00' RT
112	1852445.23	1084920.96	682+08.08	00.00' RT
113	1852467.03	1085631.28	689+08.74	00.00' RT



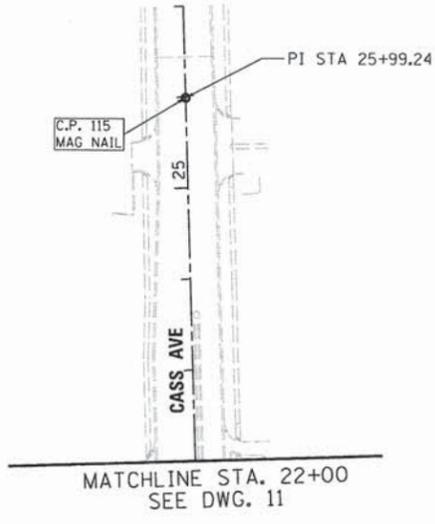
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 DESIGNED - JDH  
 DRAWN - DRP  
 CHECKED - VJD  
 DATE - 05/04/15

REVISED - ---  
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 REVISED - ---

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

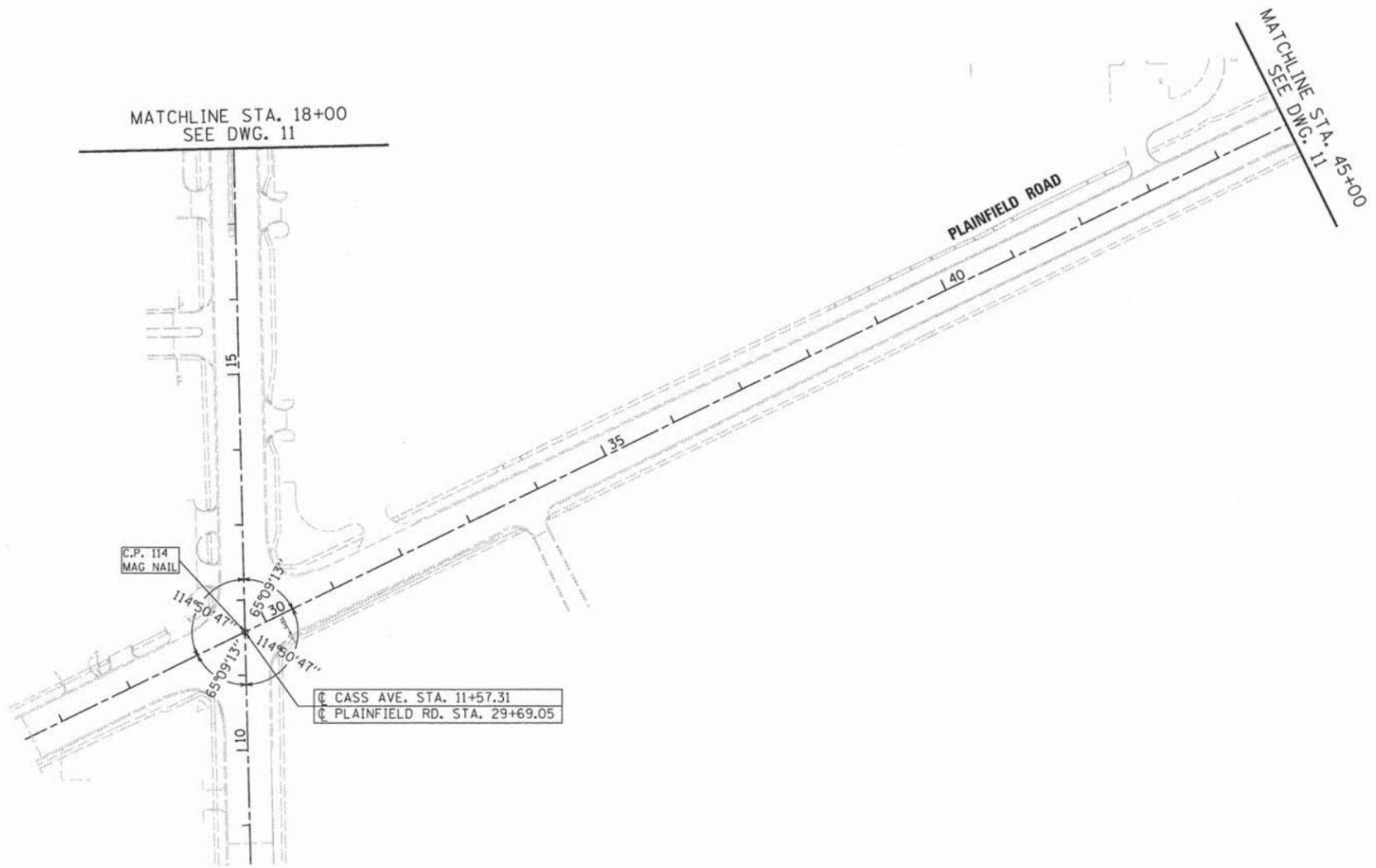
**ALIGNMENT TIES & BENCHMARKS  
 75TH STREET**  
 SCALE: 1"=100' SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	11
CONTRACT NO. 61B79				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONTROL POINTS

C.P. #	NORTHING	EASTING	STATION	OFFSET
114	1851522.83	1082368.21	11+57.31	00.00' RT
115	1852964.21	1082328.39	25+99.24	00.00' RT



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

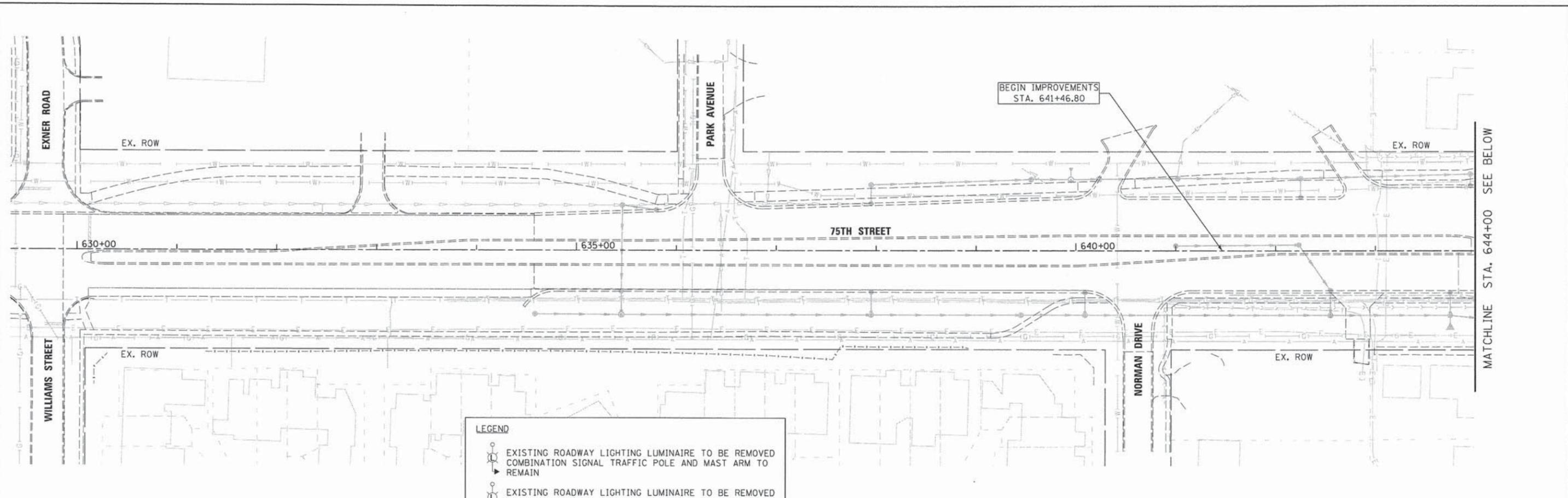
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PLOT SCALE = #SCALE#	DRAWN - DRP	REVISED - ---
PLOT DATE = 4/30/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS  
CASS AVENUE  
SCALE: 1"=100' SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	12
CONTRACT NO. 61B79				

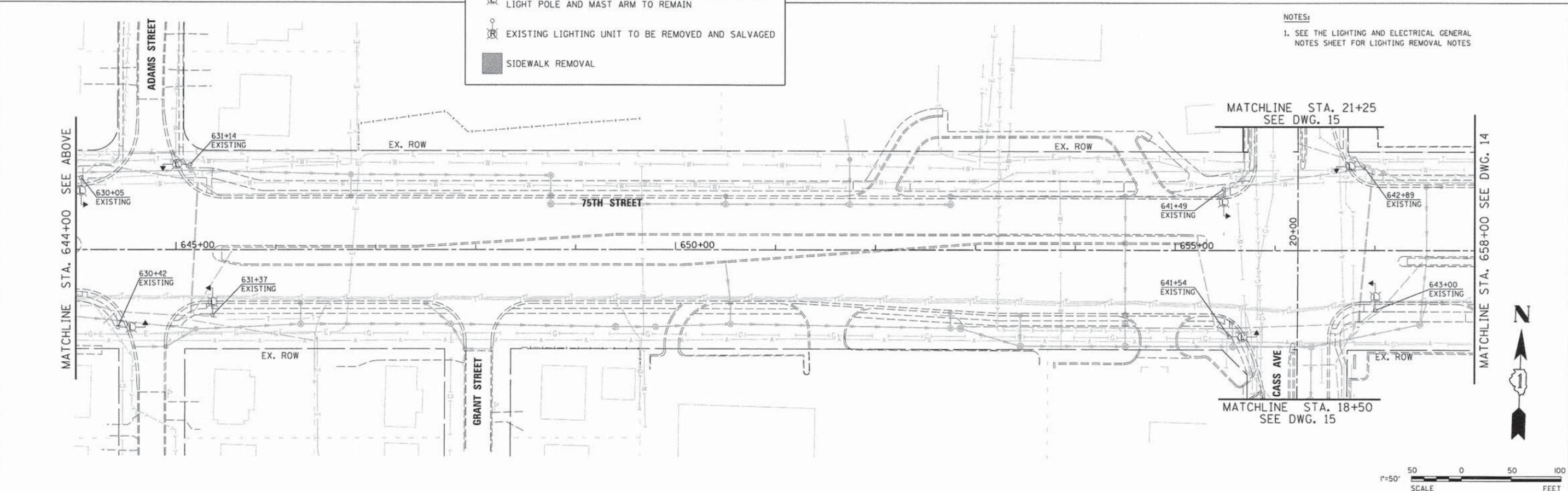
FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT



**LEGEND**

- EXISTING ROADWAY LIGHTING LUMINAIRE TO BE REMOVED COMBINATION SIGNAL TRAFFIC POLE AND MAST ARM TO REMAIN
- EXISTING ROADWAY LIGHTING LUMINAIRE TO BE REMOVED LIGHT POLE AND MAST ARM TO REMAIN
- EXISTING LIGHTING UNIT TO BE REMOVED AND SALVAGED
- SIDEWALK REMOVAL

**NOTES:**  
 1. SEE THE LIGHTING AND ELECTRICAL GENERAL NOTES SHEET FOR LIGHTING REMOVAL NOTES



**V3** Companies  
 7325 Janes Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 630.724.9202 fax  
 www.v3co.com

USER NAME = #USER#  
 PLOT SCALE = #SCALE#  
 PLOT DATE = 4/30/2015

DESIGNED - JDH  
 DRAWN - DRP  
 CHECKED - VJD  
 DATE - 05/04/15

REVISED - ---  
 REVISED - ---  
 REVISED - ---  
 REVISED - ---

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

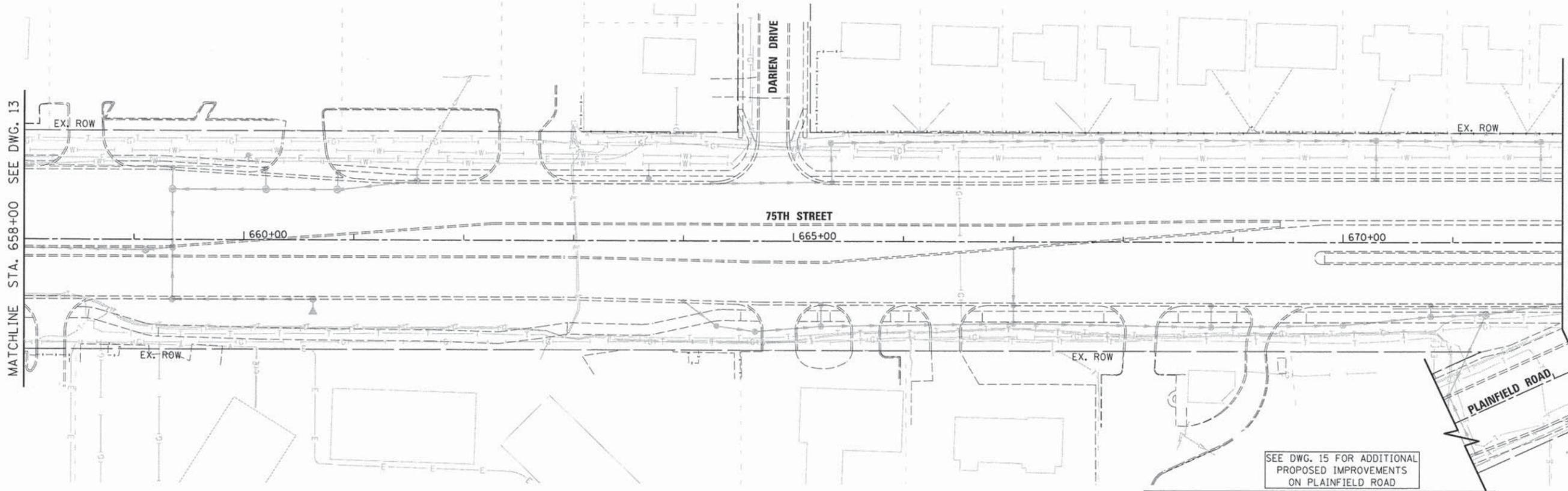
**REMOVAL PLAN  
 75TH STREET**  
 SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 630+00 TO STA. 658+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	13
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 61B79

MATCHLINE STA. 658+00 SEE DWG. 13

MATCHLINE STA. 672+00 SEE BELOW

MATCHLINE STA. 41+25 SEE BELOW



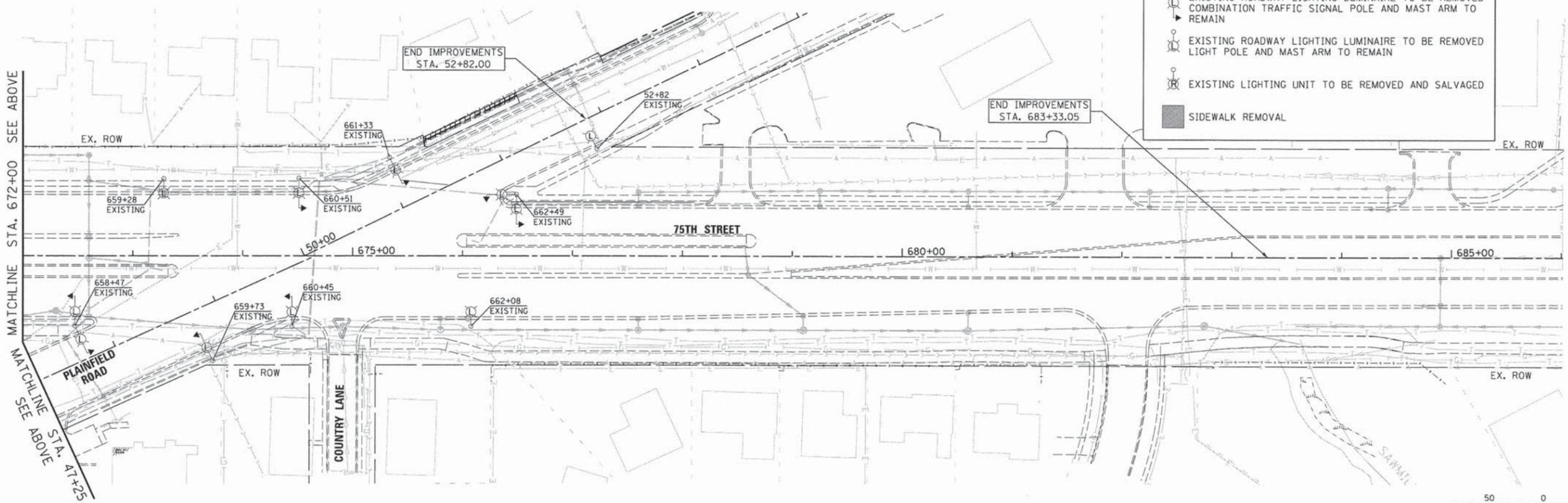
SEE DWG. 15 FOR ADDITIONAL PROPOSED IMPROVEMENTS ON PLAINFIELD ROAD

**LEGEND**

- EXISTING ROADWAY LIGHTING LUMINAIRE TO BE REMOVED COMBINATION TRAFFIC SIGNAL POLE AND MAST ARM TO REMAIN
- EXISTING ROADWAY LIGHTING LUMINAIRE TO BE REMOVED LIGHT POLE AND MAST ARM TO REMAIN
- EXISTING LIGHTING UNIT TO BE REMOVED AND SALVAGED
- SIDEWALK REMOVAL

MATCHLINE STA. 672+00 SEE ABOVE

MATCHLINE STA. 41+25 SEE ABOVE



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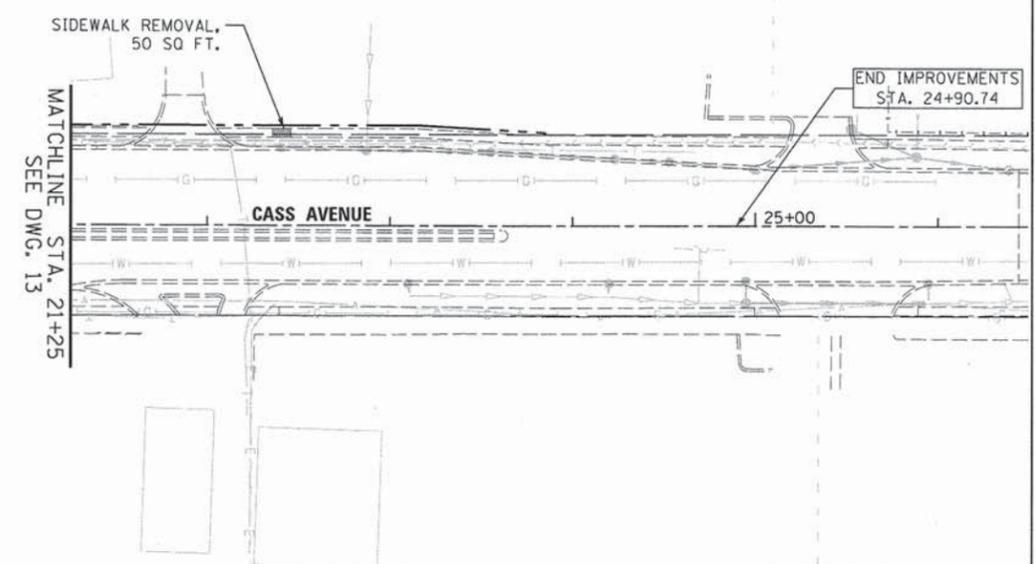
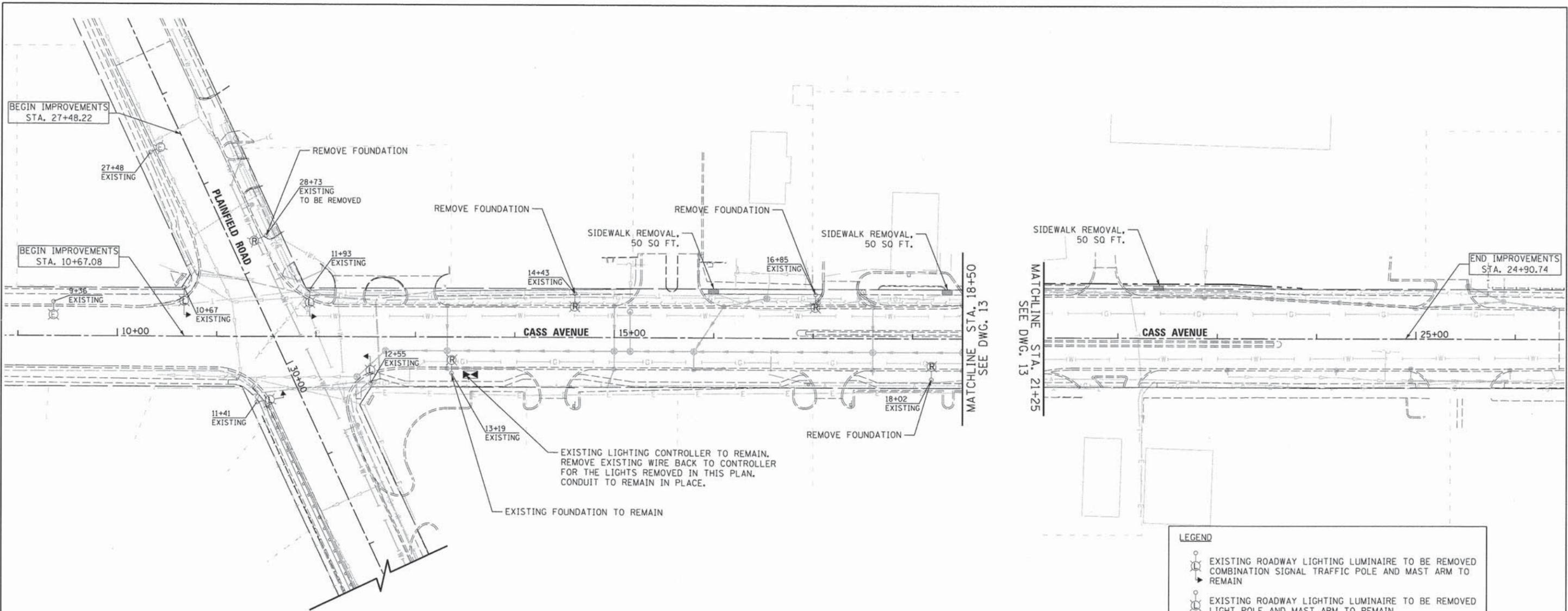
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PLOT DATE = 4/30/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
75TH STREET**

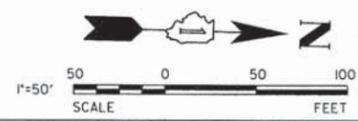
SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 658+00 TO STA. 686+00

F.A.P. RTE. 0369	SECTION 15-00233-07-LT	COUNTY DU PAGE	TOTAL SHEETS 33	SHEET NO. 14
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	



**LEGEND**

- EXISTING ROADWAY LIGHTING LUMINAIRE TO BE REMOVED  
COMBINATION SIGNAL TRAFFIC POLE AND MAST ARM TO REMAIN
- EXISTING ROADWAY LIGHTING LUMINAIRE TO BE REMOVED  
LIGHT POLE AND MAST ARM TO REMAIN
- EXISTING LIGHTING UNIT TO BE REMOVED AND SALVAGED
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- SIDEWALK REMOVAL



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USER NAME = #USER#  
DESIGNED - JDH  
DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15

REVISED - ---  
REVISED - ---  
REVISED - ---  
REVISED - ---

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
CASS AVENUE**  
SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 09+00 TO STA. 20+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	15
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	

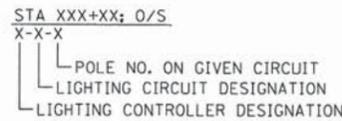
**CONDUIT AND WIRE TABLE**

- (A) UNIT DUCT, 3-1/C #4 & 1/C #4 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/4" DIA POLYETHYLENE
- (B) UNIT DUCT, 3-1/C #2 & 1/C #2 GND WIRE, 600 VOLT (XLP-TYPE USE), 1 1/2" DIA POLYETHYLENE
- (C) EMPTY CONDUIT WITH TRACER WIRE AND PULL STRING, 1 1/2" DIA UNDERGROUND COILABLE NONMETALLIC CONDUIT

**CONDUIT AND WIRE IDENTIFICATION**



**CIRCUIT DESIGNATION IDENTIFICATION**



**ELECTRICAL SYMBOLS LEGEND**

- EXISTING STREET LIGHT POLE (ALUMINUM), EXISTING SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
- EXISTING STREET LIGHT POLE (ALUMINUM), EXISTING SATIN FINISH, WITH NEW DOUBLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
- PROPOSED STREET LIGHT POLE (ALUMINUM), DARK BRONZE POWDER COAT FINISH, WITH SINGLE L.E.D. ROADWAY LUMINAIRE, 47.5' MOUNTING HEIGHT, 15' MAST ARM DOUBLE L.E.D. DECORATIVE LUMINAIRE, 20' MOUNTING HEIGHT
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- PROPOSED CONDUIT AND WIRE (SEE TABLE FOR DETAILS)
- PROPOSED RIGID GALVANIZED STEEL CONDUIT SLEEVE, 3" DIA.
- PROPOSED STREET LIGHT CONTROLLER AND CABINET WITH FOUNDATION
- PROPOSED ELECTRICAL HANDHOLE
- EXISTING COMBINATION TRAFFIC SIGNAL POLE AND MAST ARM, SATIN FINISH, WITH PROPOSED L.E.D. ROADWAY LUMINAIRE INSTALLATION, 45.0' MOUNTING HEIGHT
- EXISTING COMBINATION TRAFFIC SIGNAL POLE AND MAST ARM, SATIN FINISH, WITH PROPOSED L.E.D. ROADWAY LUMINAIRE, 15' MAST ARM INSTALLATION, 45.0' MOUNTING HEIGHT
- EXISTING ROADWAY LIGHTING POLE AND MAST ARM, SATIN FINISH, WITH PROPOSED L.E.D. ROADWAY LUMINAIRE INSTALLATION, 47.5' MOUNTING HEIGHT
- EXISTING ROADWAY LIGHTING POLE AND MAST ARM, SATIN FINISH, WITH EXISTING H.P.S. ROADWAY LUMINAIRE INSTALLATION TO REMAIN

**LIGHTING AND ELECTRICAL GENERAL NOTES**

1. LOCATION OF LIGHTING CONDUIT, DUCT HANDHOLES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGURING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
3. PRIOR TO INSTALLATION OF THE NEW UNIT DUCT, CONDUITS, JUNCTION BOXES, LIGHT STANDARD FOUNDATIONS AND APPURTENANCES, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
4. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
5. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE.
6. GROUNDING OF POLE AND CONTROLLER INCLUDING GROUND ROD, CONDUCTOR AND LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR WHICH IT IS INSTALLED.
7. ALL ELECTRICAL INSTALLATION AND MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS:
  - ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT)
  - NATIONAL ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
  - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IES)
  - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS (AAOT)
  - U.S. DEPARTMENT OF TRANSPORTATION (USDOT)
  - UNDERWRITERS LABORATORIES (UL)
  - AMERICAN STANDARD INSTITUTE (AS1)
  - INSULATED POWER AND CABLE ENGINEERS ASSOCIATION (IPCEA)
  - NATIONAL ELECTRICAL SAFETY CODE (NESC)
  - NATIONAL ELECTRICAL CODE 2014
  - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
  - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
8. ALL SPLICING MUST BE IN POLE BASES OR JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
9. PARALLEL ELECTRICAL CONDUIT RUNS SHALL BE PLACED IN A COMMON TRENCH IF POSSIBLE.
10. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH ELECTRICAL HANDHOLE THEY PASS THROUGH AS WELL AS EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. BOXES SHALL BE EQUIPPED FOR THE GROUNDING WIRE TERMINATIONS WITHOUT DEGRADATION OF BOX RATING.
11. ELECTRICAL SERVICE SHALL BE 240/480V, SINGLE-PHASE, UNLESS OTHERWISE NOTED.
12. INSTALL CABLE IN CONTINUOUS UN CUT LENGTHS BETWEEN HANDHOLES AND LIGHT POLES.
13. EMPTY CONDUIT RUNS SHALL INCLUDE A PULL STING FOR FUTURE WORK AN A TRACER WIRE FOR LOCATING. INCLUDED IN THE COST OF THE PAY ITEM FOR THE CONDUIT
14. HANDHOLE COVER ON LIGHT POLES SHALL HAVE STEEL/STAINLESS SCREWS. NO NYLON SCREWS ALLOWED.
15. UNLESS OTHERWISE NOTED, ALL LIGHT POLES LOCATED ON THE SAME BLOCK SHALL HAVE A CONSTANT OFFSET FROM THE EDGE OF SIDEWALK OR BACK OF CURB.
16. ONLY EMPTY CONDUITS (FOR FUTURE WORK) AND CONDUITS WITH CONDUCTORS REQUIRED AT THE LIGHT POLE SHALL BE ROUTED INTO THE LIGHT POLE BASE.
17. CONDUITS TERMINATING FOR STUB OUTS AT THE LIGHT POLE BASE SHALL BE INSTALLED TO 36" BELOW GRADE AND CAPPED.
18. ALL AREAS DISTURBED FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS AS PART OF THIS CONTRACT SHALL BE RESTORED IN KIND TO THE EXISTING CONDITION. RESTORATION OF LANDSCAPED AREAS SHALL BE PAID FOR AS SODDING AT LOCATIONS APPROVED BY THE ENGINEER PRIOR TO STARTING WORK.

**LIGHTING AND ELECTRICAL REMOVAL NOTES**

1. EXISTING ROADWAY LIGHTING LUMINAIRES REMOVED FROM EXISTING LIGHT POLES AND COMBINATION TRAFFIC SIGNAL POLES SHALL BE DELIVERED TO DUPAGE COUNTY.
2. ELECTRICAL WIRE SHALL BE REMOVED FROM EXISTING CONDUIT TO THE NEXT CONNECTED POLE WITH NEW WIRE SPLICES MADE IN THE BASE OF THE EXISTING LIGHT POLE TO REMAIN. THIS WORK SHALL INCLUDED IN THE COST OF REMOVE ELECTRICAL CABLE FROM CONDUIT.
3. EXISTING SIDEWALK AND BIKE PATH DISTURBED BY THE INSTALLATION OF LIGHTING CONDUIT AND WIRE SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE DETAIL SHOWN IN THE TYPICAL SECTIONS. THE EXACT LOCATIONS OF SIDEWALK AND BIKE PATH TO BE REMOVED AND REPLACED SHALL BE PER THE LOCATIONS SHOWN IN THE PLANS AND AS APPROVED BY THE ENGINEER PRIOR TO STARTING WORK. ADDITIONAL QUANTITY HAS BEEN PROVIDED FOR THIS WORK.
4. REMOVAL OF SPOILS FROM THE INSTALLATION OF LIGHT POLE FOUNDATION ON CASS AVENUE SHALL BE PAID FOR AS NON-SPECIAL WASTE DISPOSAL.



USER NAME = #USER#	DESIGNED - JDH	REVISED - ---
PLOT SCALE = #SCALE#	DRAWN - DRP	REVISED - ---
PLOT DATE = 4/30/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

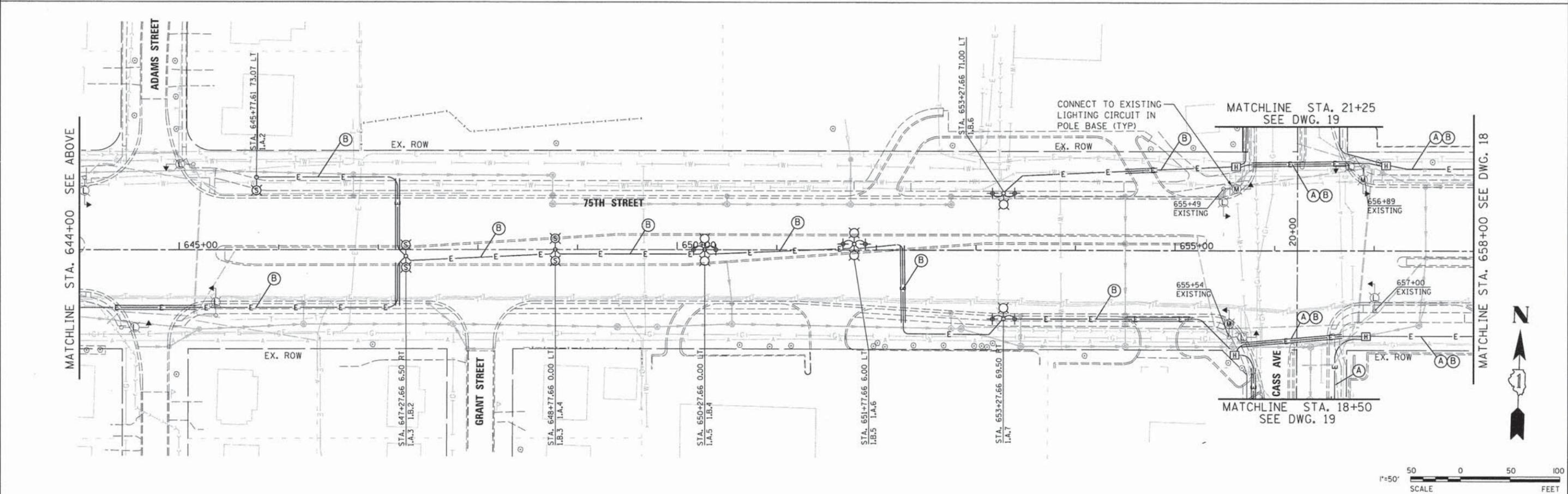
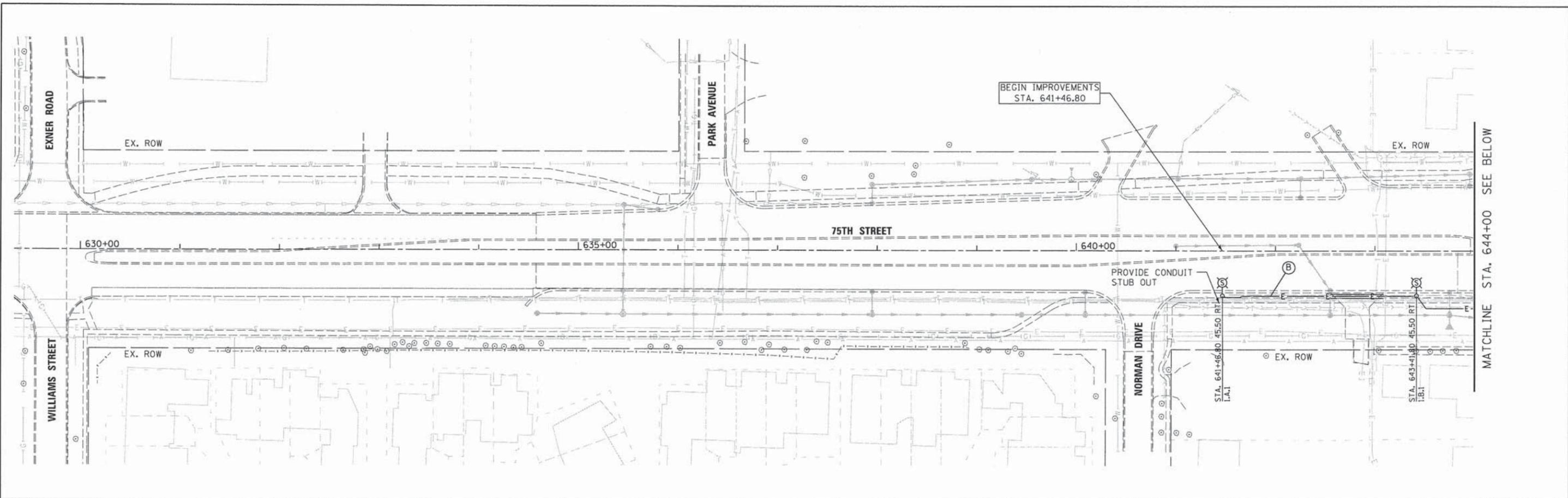
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING AND ELECTRICAL  
GENERAL NOTES**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	16
CONTRACT NO. 61B79				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



MATCHLINE STA. 644+00 SEE BELOW

MATCHLINE STA. 658+00 SEE DWG. 18



**V3** Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
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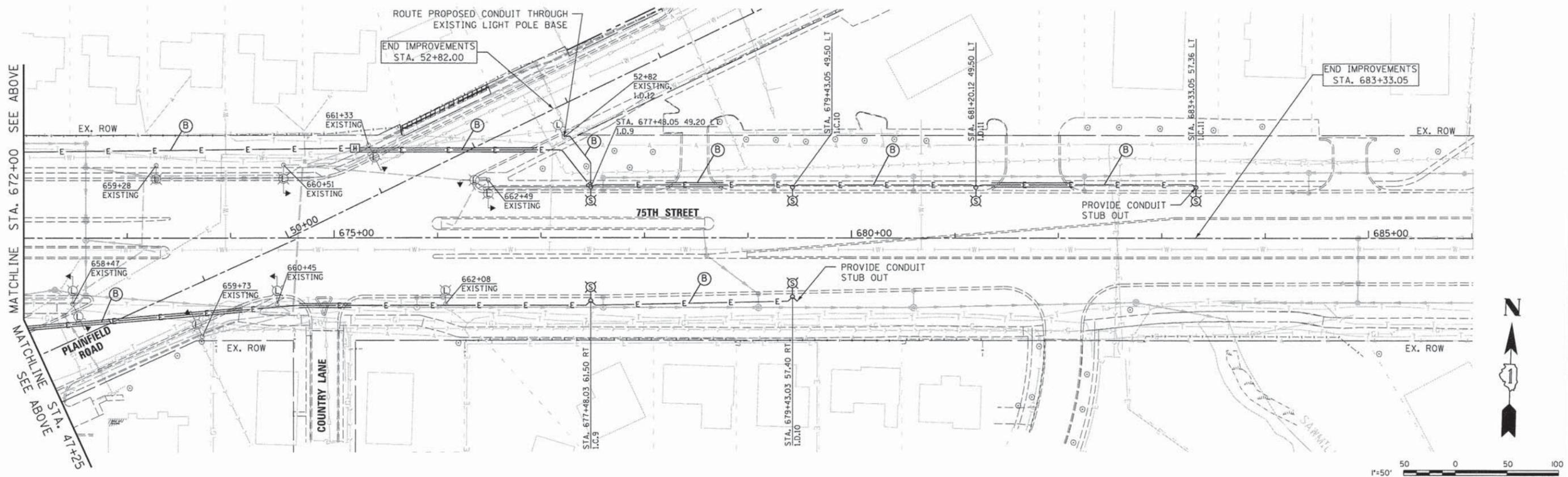
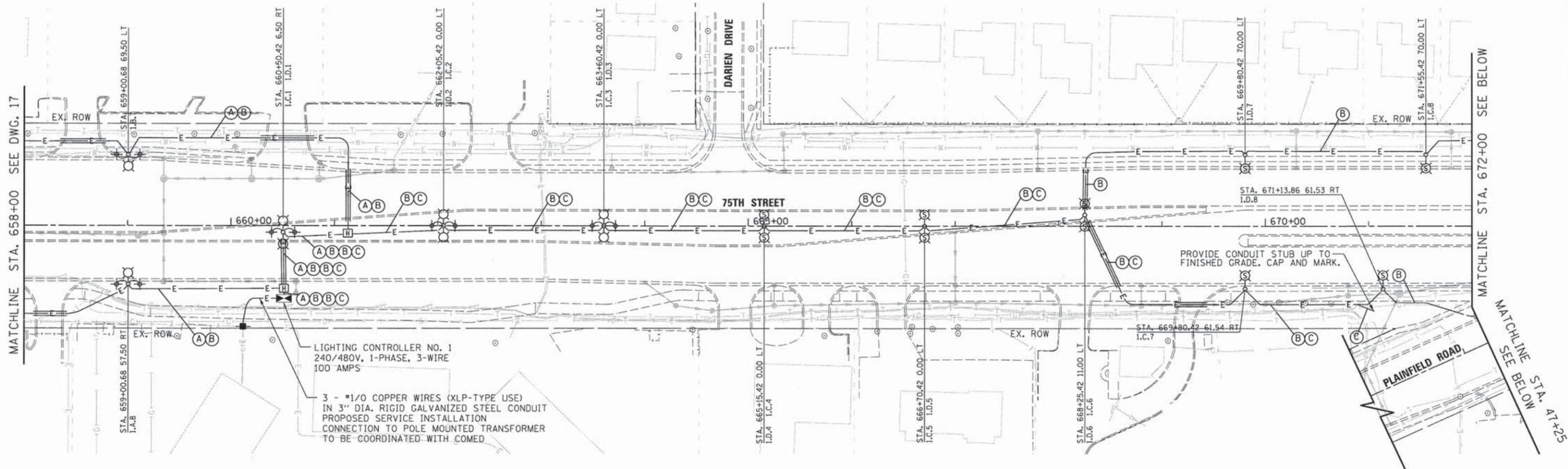
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PLOT DATE = 4/30/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

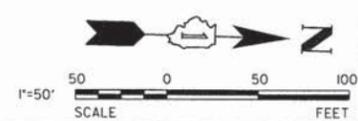
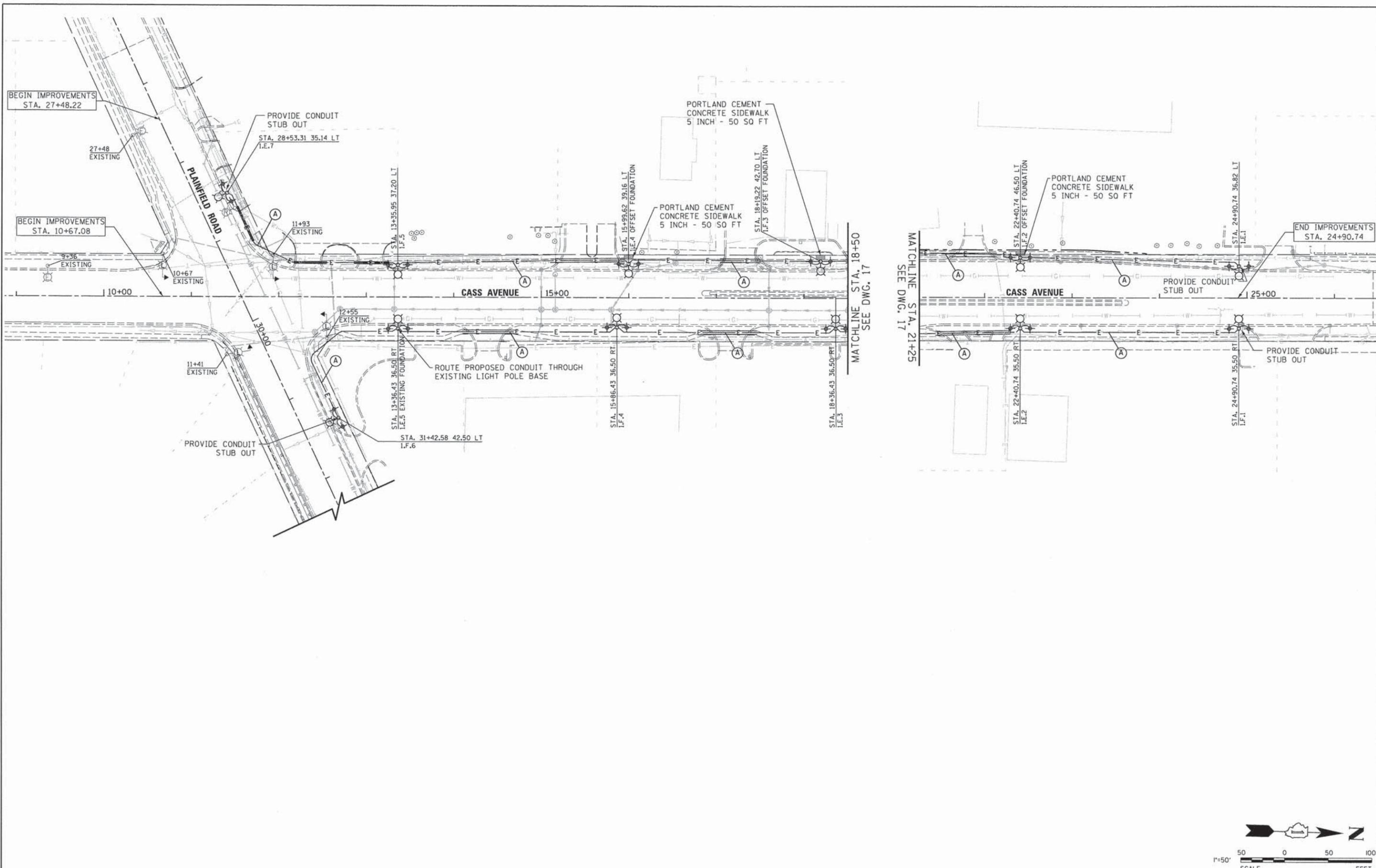
**LIGHTING AND ELECTRICAL PLAN  
75TH STREET**

SCALE: 1"=50'    SHEET NO. 1 OF 3 SHEETS    STA. 630+00 TO STA. 658+00

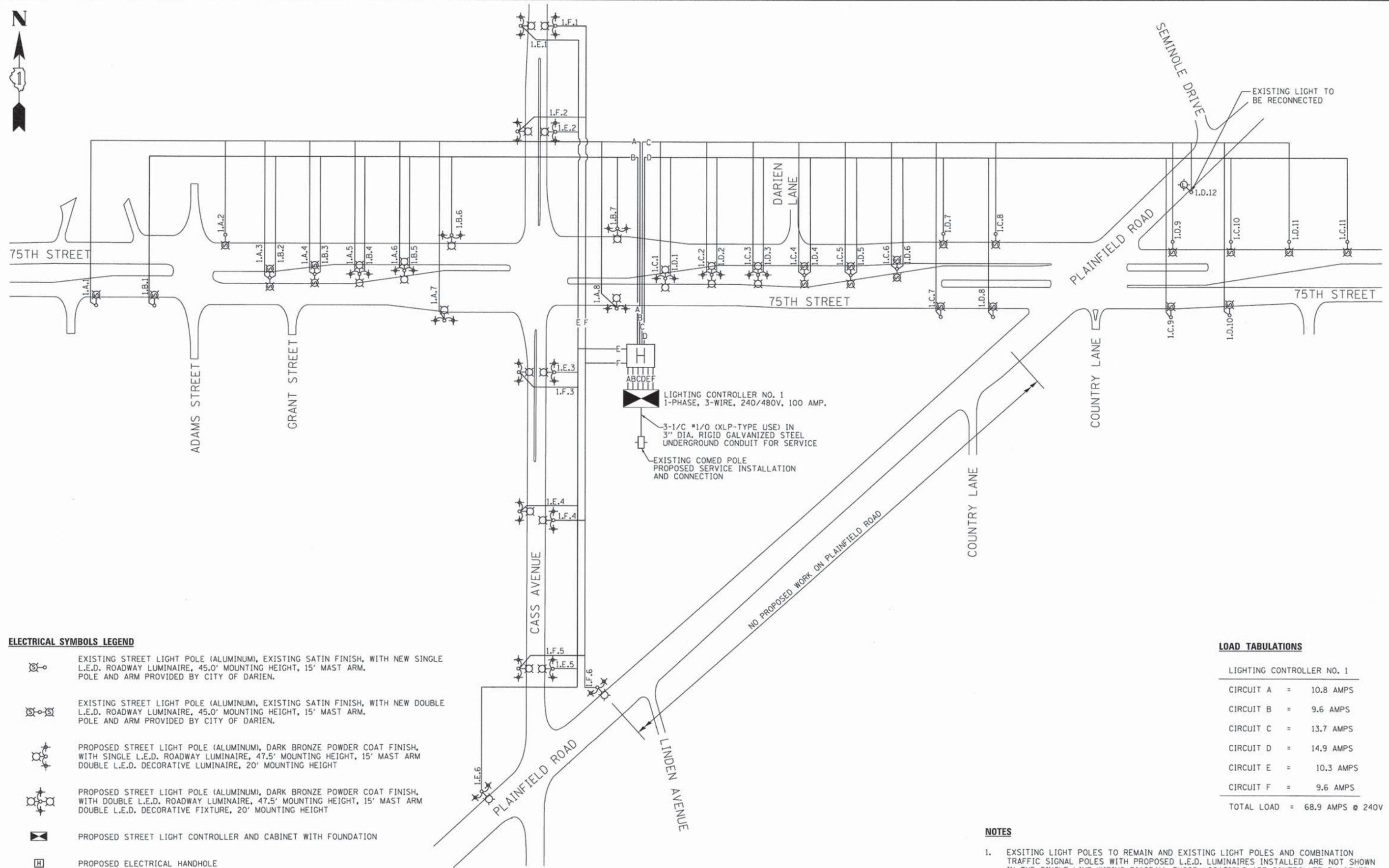
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	



V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = 4/30/2015	DESIGNED - JDH DRAWN - DRP CHECKED - VJD DATE - 05/04/15	REVISED - --- REVISED - --- REVISED - --- REVISED - ---	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>LIGHTING AND ELECTRICAL PLAN</b> <b>75TH STREET</b>		F.A.P. RTE. 0369	SECTION 15-00233-07-LT	COUNTY DU PAGE	TOTAL SHEETS 33	SHEET NO. 18
	SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 658+00 TO STA. 686+00				CONTRACT NO. 61B79		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT					



 V3 Companies 7325 Janes Avenue Woodridge, IL 60517 830.724.9200 phone 830.724.9202 fax www.v3co.com	USER NAME = #USER#	DESIGNED - JDH	REVISED - ---	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING AND ELECTRICAL PLAN</b> <b>CASS AVENUE AND PLAINFIELD ROAD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - DRP	REVISED - ---			0369	15-00233-07-LT	DU PAGE	33	19
	PLOT DATE = 5/1/2015	CHECKED - VJD	REVISED - ---			CONTRACT NO. 61B79				
	DATE - 05/04/15	REVISED - ---	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							
SCALE: 1"=50'					SHEET NO. 3 OF 3 SHEETS		STA. 09+00 TO STA. 26+00			



LIGHTING CONTROLLER NO. 1  
 1-PHASE, 3-WIRE, 240/480V, 100 AMP.

3-1/C #1/0 (XLP-TYPE USE) IN  
 3" DIA. RIGID GALVANIZED STEEL  
 UNDERGROUND CONDUIT FOR SERVICE

EXISTING COMED POLE  
 PROPOSED SERVICE INSTALLATION  
 AND CONNECTION

**ELECTRICAL SYMBOLS LEGEND**

-  EXISTING STREET LIGHT POLE (ALUMINUM), EXISTING SATIN FINISH, WITH NEW SINGLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
-  EXISTING STREET LIGHT POLE (ALUMINUM), EXISTING SATIN FINISH, WITH NEW DOUBLE L.E.D. ROADWAY LUMINAIRE, 45.0' MOUNTING HEIGHT, 15' MAST ARM. POLE AND ARM PROVIDED BY CITY OF DARIEN.
-  PROPOSED STREET LIGHT POLE (ALUMINUM), DARK BRONZE POWDER COAT FINISH, WITH SINGLE L.E.D. ROADWAY LUMINAIRE, 47.5' MOUNTING HEIGHT, 15' MAST ARM. DOUBLE L.E.D. DECORATIVE LUMINAIRE, 20' MOUNTING HEIGHT
-  PROPOSED STREET LIGHT POLE (ALUMINUM), DARK BRONZE POWDER COAT FINISH, WITH DOUBLE L.E.D. ROADWAY LUMINAIRE, 47.5' MOUNTING HEIGHT, 15' MAST ARM. DOUBLE L.E.D. DECORATIVE FIXTURE, 20' MOUNTING HEIGHT
-  PROPOSED STREET LIGHT CONTROLLER AND CABINET WITH FOUNDATION
-  PROPOSED ELECTRICAL HANDHOLE

**LOAD TABULATIONS**

LIGHTING CONTROLLER NO. 1	
CIRCUIT A	= 10.8 AMPS
CIRCUIT B	= 9.6 AMPS
CIRCUIT C	= 13.7 AMPS
CIRCUIT D	= 14.9 AMPS
CIRCUIT E	= 10.3 AMPS
CIRCUIT F	= 9.6 AMPS
<b>TOTAL LOAD</b>	<b>= 68.9 AMPS @ 240V</b>

**NOTES**

- EXISTING LIGHT POLES TO REMAIN AND EXISTING LIGHT POLES AND COMBINATION TRAFFIC SIGNAL POLES WITH PROPOSED L.E.D. LUMINAIRES INSTALLED ARE NOT SHOWN IN THE SINGLE LINE WIRING DIAGRAM. THOSE LOCATIONS ARE CONTROLLED BY OTHER EXISTING CONTROLLERS.



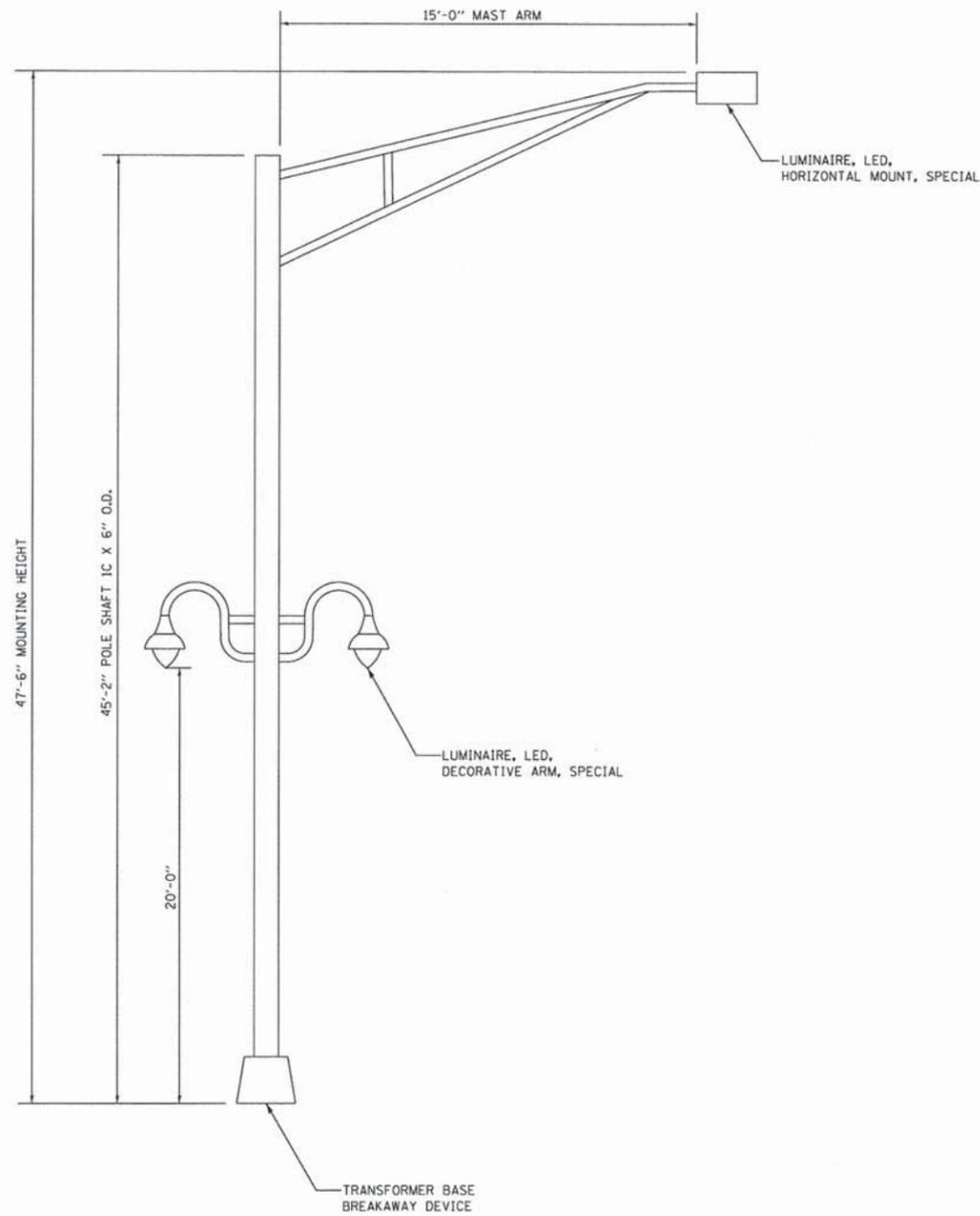
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	DATE - 05/04/15	REVISED - ---

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

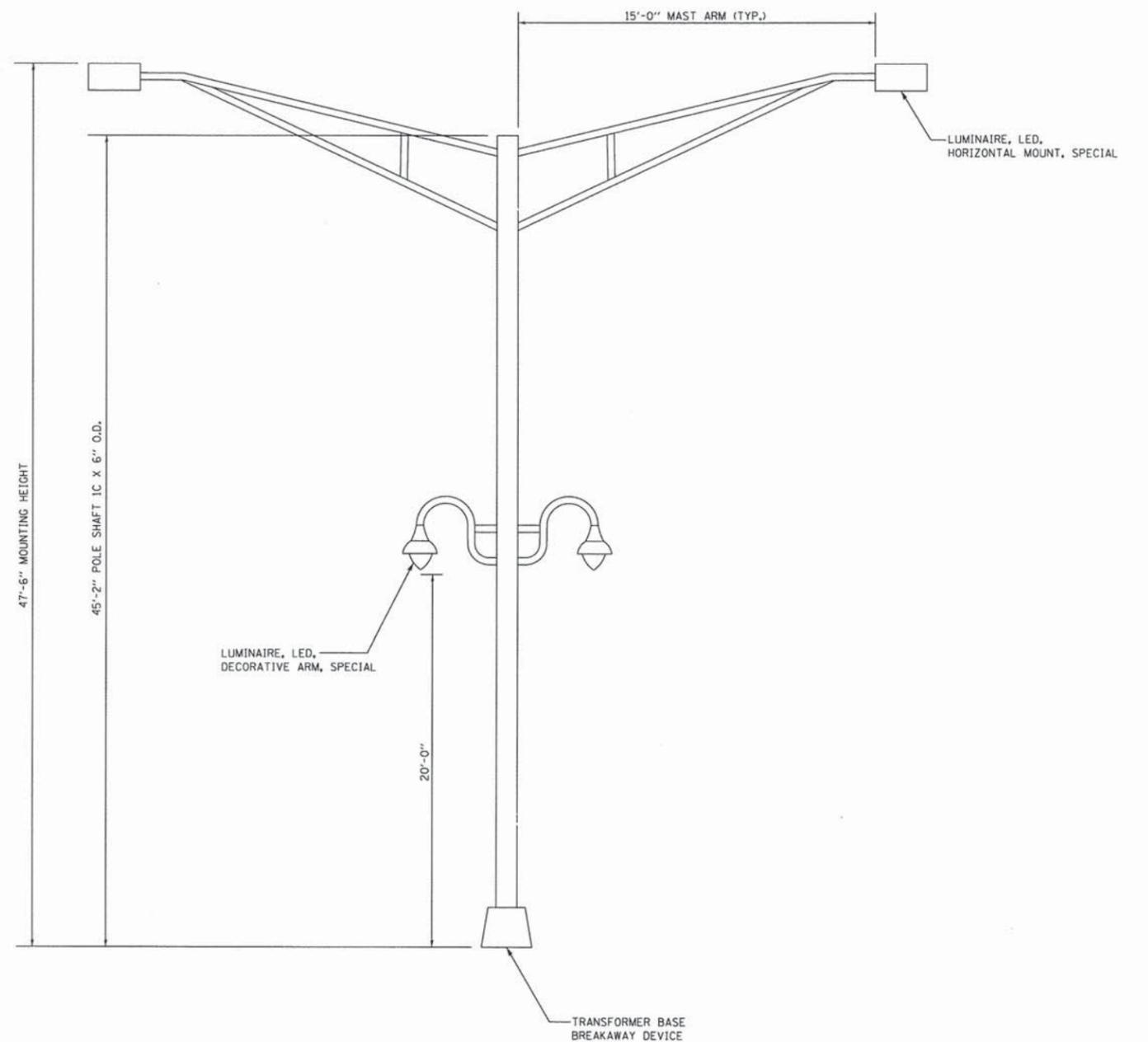
**SINGLE LINE WIRING DIAGRAM**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	20
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B79	



**LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM**  
**LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL, 1 EACH**  
**LUMINAIRE, LED, DECORATIVE ARM, SPECIAL, 2 EACH**



**LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS**  
**LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL, 2 EACH**  
**LUMINAIRE, LED, DECORATIVE ARM, SPECIAL, 2 EACH**

**NOTES:**

- SEE DUPAGE COUNTY COMMERCIAL STREET LIGHT DETAIL ON DRAWING 33 FOR ADDITIONAL LIGHT POLE INFORMATION.



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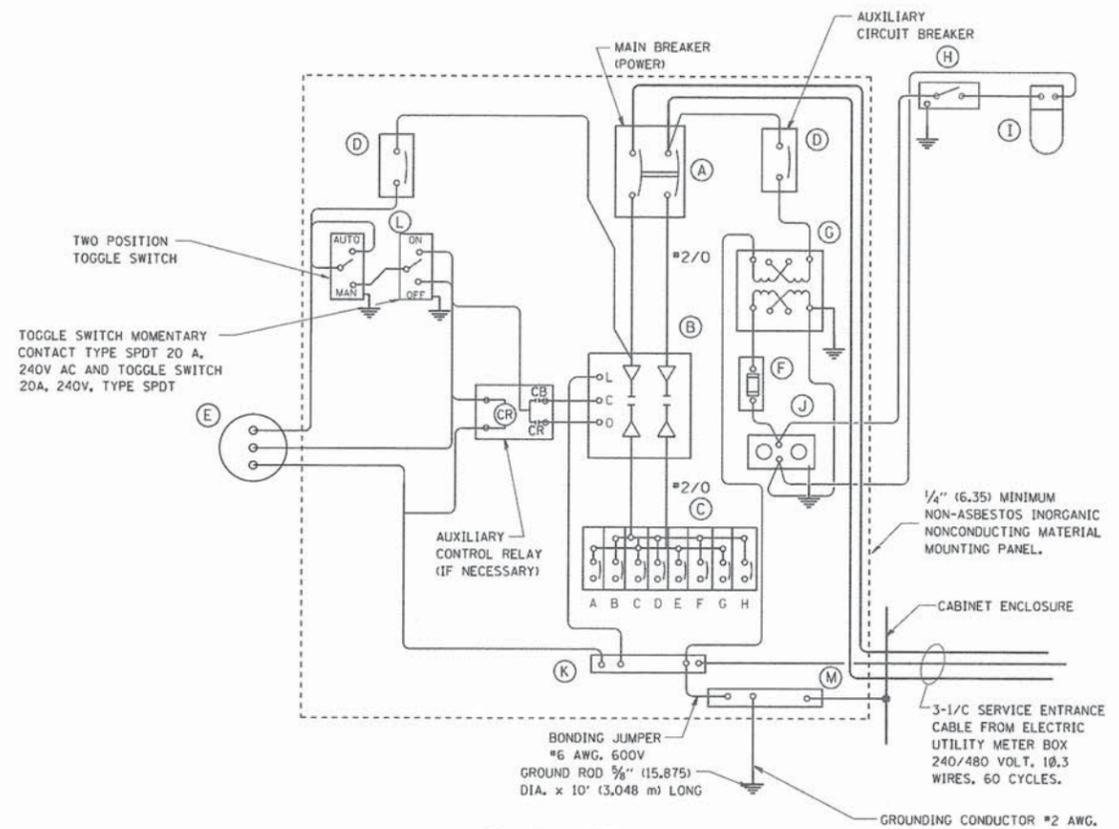
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PLOT DATE = 4/30/2015	CHECKED - VJD	REVISED - ---
	DATE - 05/04/15	REVISED - ---

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING AND ELECTRICAL DETAILS**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT		33	21
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61B79	



PANEL WIRING DIAGRAM

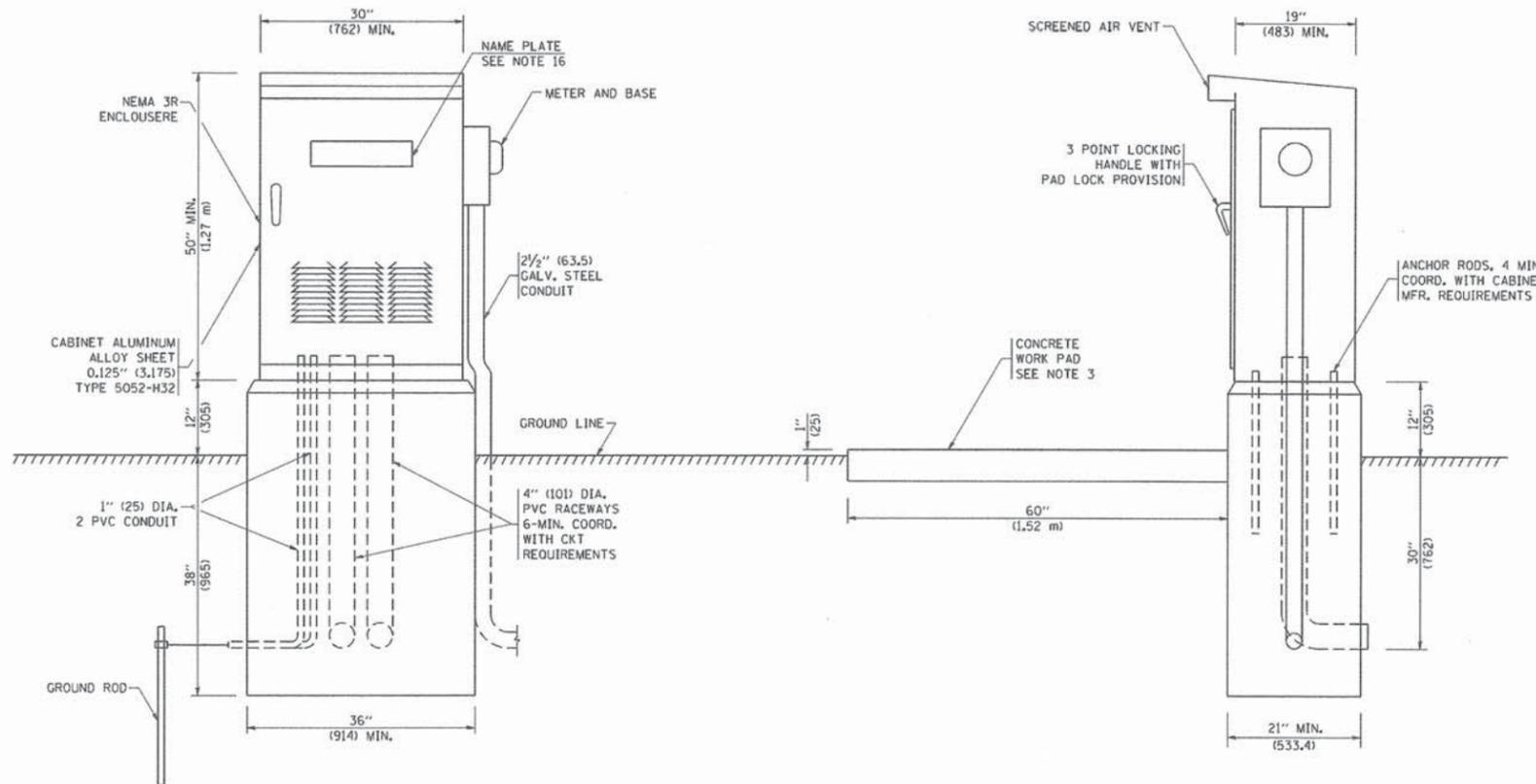
PANEL EQUIPMENT

BILL OF MATERIAL

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	PHOTOCELL WITH INTEGRAL SURGE ARRESTOR
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (1524 mm) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE      W = WHITE  
B = BLACK      Y = YELLOW      G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "CITY OF DARIEN" LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.



LIGHTING CONTROLLER, 240VOLT, 100AMP



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME = jbauer  
DESIGNED - JDH  
DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15

REVISED - ---  
REVISED - ---  
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REVISED - ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING AND ELECTRICAL DETAILS

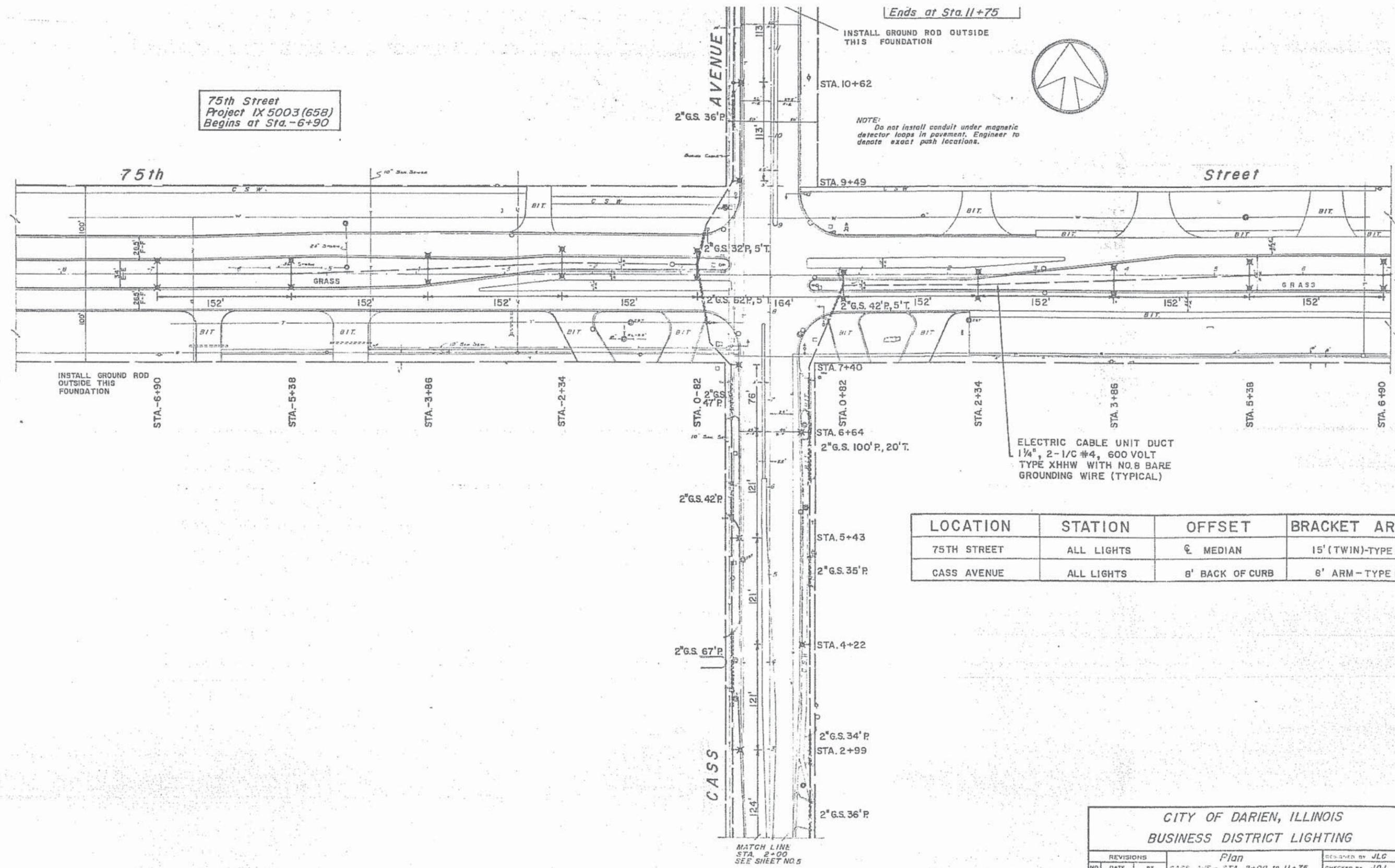
SCALE: NTS SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	22
CONTRACT NO. 61B79				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

75th Street  
Project IX 5003 (658)  
Begins at Sta. -6+90

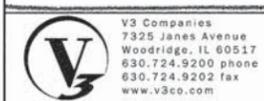
Ends at Sta. 11+75



LOCATION	STATION	OFFSET	BRACKET ARM
75TH STREET	ALL LIGHTS	℄ MEDIAN	15' (TWIN)-TYPE A
CASS AVENUE	ALL LIGHTS	6' BACK OF CURB	6' ARM - TYPE B

REVISIONS			CITY OF DARIEN, ILLINOIS BUSINESS DISTRICT LIGHTING	
NO.	DATE	BY	Plan	DESIGNED BY JLC
			CASS AVE - STA. 2+00 TO 11+75	CHECKED BY JDJ
			75th St - STA. -8+50 TO 7+00	APPROVED BY RGB
			FRANK NOVOTNY AND ASSOCIATES, INC. CONSULTING ENGINEERS	FIELD BOOK NO. 676, 676A
				DATE OCTOBER, 1960
				SCALE 1" = 80'
				SHEET NO. 6 OF 9

**INFORMATIONAL USE ONLY**



USER NAME = jbour  
DESIGNED - JDH  
DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15

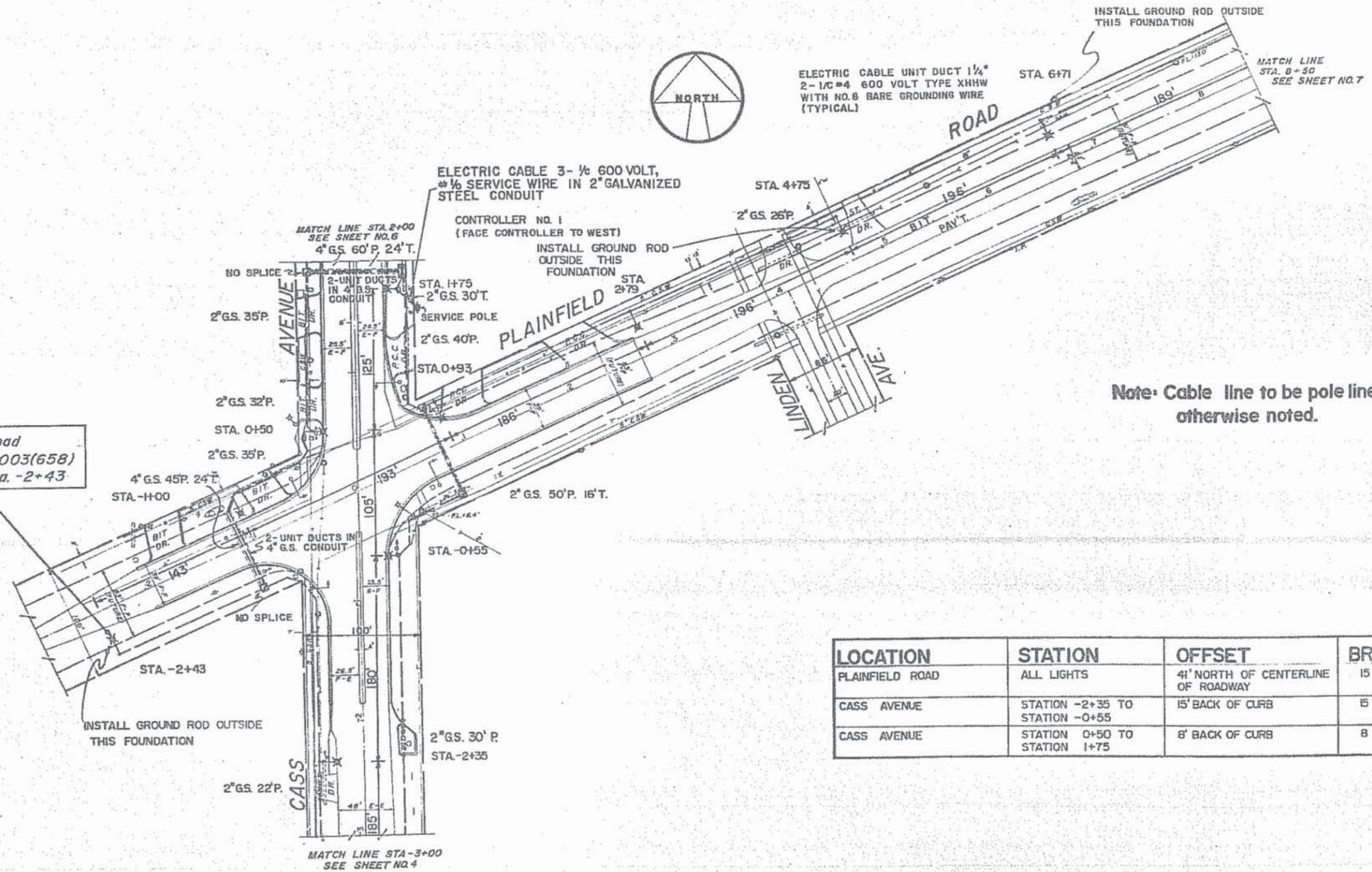
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHT PLANS FOR PROJECT LIMITS  
SCALE: NONE SHEET NO. 1 OF 4 SHEETS

F.A.P. RTE. 0369 SECTION 15-00233-07-LT COUNTY DU PAGE TOTAL SHEETS 33 SHEET NO. 23 CONTRACT NO. 61B79  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

Plainfield Road  
Project 1X-5003(658)  
Begins at Sta. -2+43



Note: Cable line to be pole line, unless otherwise noted.

LOCATION	STATION	OFFSET	BRACKET ARM
PLAINFIELD ROAD	ALL LIGHTS	41' NORTH OF CENTERLINE OF ROADWAY	15 FEET - TYPE C
CASS AVENUE	STATION -2+35 TO STATION -0+55	15' BACK OF CURB	5 FEET - TYPE C
CASS AVENUE	STATION 0+50 TO STATION 1+75	8' BACK OF CURB	8 FEET - TYPE B

CITY OF DARIEN, ILLINOIS BUSINESS DISTRICT LIGHTING			
REVISIONS		Plan	DESIGNED BY JLC
NO.	DATE	BY	CHECKED BY JDJ
			APPROVED BY RGB
		PLAINFIELD RD - STA. 3+00 TO 8+50	FIELD BOOK NO. 676, 676A
		CASS AVE. - STA. -3+00 TO 2+00	DATE OCTOBER, 1980
		FRANK NOVOTNY AND ASSOCIATES, INC.	SCALE 1" = 50'
		CONSULTING ENGINEERS	SHEET NO. 5 OF 9
PROJECT NUMBER 00026			

**INFORMATIONAL USE ONLY**



USER NAME = jbover  
DESIGNED - JDH  
DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15  
PLOT SCALE = 1:8000 1/4" = 100'  
PLOT DATE = 4/30/2015

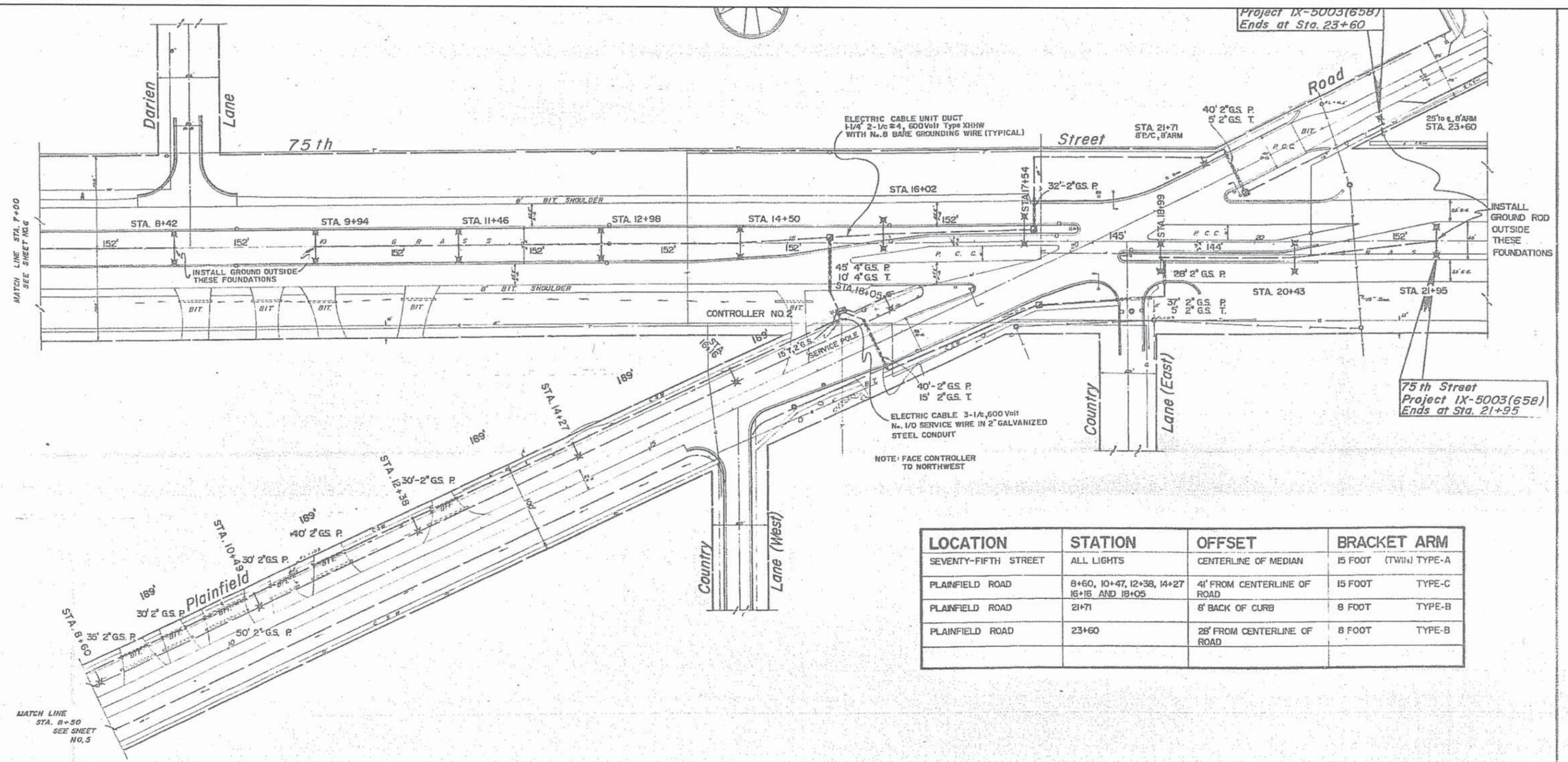
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHT PLANS FOR PROJECT LIMITS  
SCALE: NONE SHEET NO. 2 OF 4 SHEETS

F.A.P. RTE. 0369 SECTION 15-00233-07-LT COUNTY DU PAGE TOTAL SHEETS 33 SHEET NO. 24 CONTRACT NO. 61B79  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

Project IX-5003(658)  
Ends at Sta. 23+60



75th Street  
Project IX-5003(658)  
Ends at Sta. 21+95

LOCATION	STATION	OFFSET	BRACKET ARM
SEVENTY-FIFTH STREET	ALL LIGHTS	CENTERLINE OF MEDIAN	15 FOOT (TWIN) TYPE-A
PLAINFIELD ROAD	8+60, 10+47, 12+38, 14+27 16+16 AND 18+05	4' FROM CENTERLINE OF ROAD	15 FOOT TYPE-C
PLAINFIELD ROAD	21+71	8' BACK OF CURB	8 FOOT TYPE-B
PLAINFIELD ROAD	23+60	28' FROM CENTERLINE OF ROAD	8 FOOT TYPE-B

MATCH LINE  
STA. 8+50  
SEE SHEET  
NO. 5

**INFORMATIONAL USE ONLY**

**CITY OF DARIEN, ILLINOIS  
BUSINESS DISTRICT LIGHTING**

DESIGNED BY JLC		DESIGNED BY JLC
CHECKED BY JDJ		CHECKED BY JDJ
APPROVED BY RGB		APPROVED BY RGB
FIELD BOOK NO. 676, 676A		FIELD BOOK NO. 676, 676A
DATE OCTOBER, 1980		DATE OCTOBER, 1980
SCALE 1" = 80'		SCALE 1" = 80'
SHEET NO. 7 OF 9		SHEET NO. 7 OF 9

FRANK NOVOTNY AND ASSOCIATES, INC.  
CONSULTING ENGINEERS

PROJECT NUMBER 80028



V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

USER NAME: jbeaver

PLOT SCALE = 1:8000 1/4" = 100'

PLOT DATE = 4/30/2015

DESIGNED - JDH  
DRAWN - DRP  
CHECKED - VJD  
DATE - 05/04/15

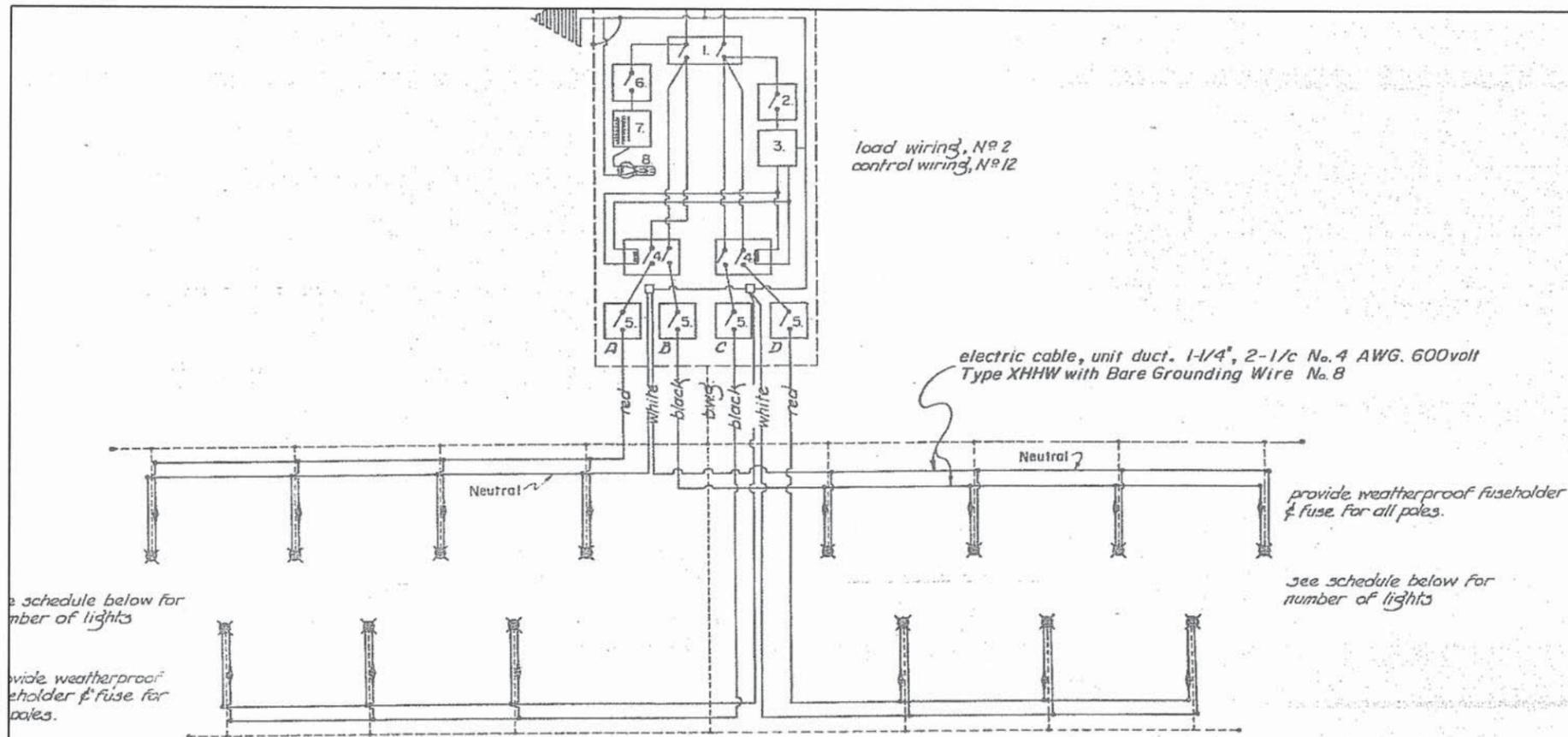
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHT PLANS FOR PROJECT LIMITS

SCALE: NONE SHEET NO. 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	25
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61B79	



**CONTROLLER DETAILS**

For explanation of equipment code numbers, see schedule of controller equipment, below

LOCATION	CIRCUIT A—Red	CIRCUIT B—Black	CIRCUIT C—Black	CIRCUIT D—Red	TOTAL NO. OF LUMINAIRES
controller no. 1 n.e. cor. plainfield rd & cass ave.	14 ea. 400 watt h.p.s.	16 ea. 400 watt h.p.s.	16 ea. 400 watt h.p.s.	14 ea. 400 watt h.p.s.	60 ea.
controller no. 2 s.w. cor. plainfield rd & 75th st.	7 ea. 400 watt h.p.s.	6 ea. 400 watt h.p.s.	6 ea. 400 watt h.p.s.	8 ea. 400 watt h.p.s.	27 ea.

**CONTROLLER CIRCUITS**

NO.	ITEM	CONT. NO.	RATING	DESCRIPTION
1	Main Circuit Breaker	411	150	Two pole, 600 volt 15 amp circuit breaker minimum interrupting capacity 14,000
2	Branch Circuit Breaker	411	15	Single pole, 600 volt, 15 amp circuit breaker minimum interrupting capacity 7,500
3	Time Clock	411	1 Reg'd.	240 volt, two pole, single throw clock with spring carry over & astronomical dial
4	Magnetic Contactor	411	100	R.C.C. relay, mechanically held, two pole, 100 amp with 240 volt, 60 cycle operating coil, less case
5	Branch Circuit Breaker	411	75	One pole, 600 volt 75 amp circuit breaker minimum interrupting capacity 7,500
6	Branch Circuit Breaker	411	15	Single pole 600 volt 15 amp circuit breaker minimum interrupting capacity 7,500
7	Dry Type Transformer	411	1 Reg'd.	500 watt, 240/230 volt to 120, or Equal
8	Lampholder w/ Grounded Outlet	411	1 Reg'd.	Porcelain lampholder with pull chain and lamp, and grounded duplex convenience outlet.

SCHEDULE OF CONTROLLER EQUIPMENT- 2 EACH

TYPE OF SOIL	TYPE "A" POLE (30" FOUNDATION)		TYPE "B" & "C" POLE (24" FOUNDATION)			
	DESIGN DEPTH OF FNDTN.	REINFORCEMENT IN FNDTN.		DESIGN DEPTH OF FNDTN.	REINFORCEMENT IN FNDTN.	
		VERT. BARS	SPIRAL		VERT. BARS	SPIRAL
SOFT CLAY OR LOOSE SAND	16' 0"	6-#5 x 15'0"	#4 x 14'7 1/2"	16' 3"	6-#5 x 15'3"	#4 x 14'10 1/2"
MEDIUM CLAY OR MEDIUM SAND	10' 6"	6-#5 x 9'6"	#4 x 9'1 1/4"	10' 9"	6-#5 x 9'9"	#4 x 9' 4 1/2"
HARD CLAY OR DENSE SAND	7' 3"	6-#5 x 6'3"	#4 x 5'10 1/2"	7' 3"	6-#5 x 6'3"	#4 x 5'10 1/2"
ROCK OR SOLID SLAG	6' 0"	6-#5 x 5'0"	#4 x 4'7 1/2"	6' 0"	6-#5 x 5'0"	#4 x 4' 7 1/2"

"DESIGN TABLE FOR FOUNDATIONS"

NOTE: THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.

CITY OF DARIEN, ILLINOIS BUSINESS DISTRICT LIGHTING		
DESIGNED BY	J.L.C.	
CHECKED BY	J.D.J.	
APPROVED BY	R.G.B.	
FIELD BOOK NO.	—	
DATE	OCTOBER, 1980	
SCALE	NONE	
PROJECT NUMBER	80026	
FRANK NOVOTNY AND ASSOCIATES, INC. CONSULTING ENGINEERS		
SHEET NO.	9 OF 9	

**INFORMATIONAL USE ONLY**



USER NAME = jbauer	DESIGNED - JDH	REVISED - ---
PLOT SCALE = 1:0000 "/> <td>CHECKED - VJD</td> <td>REVISED - ---</td>	CHECKED - VJD	REVISED - ---
PLOT DATE = 4/30/2015	DATE - 05/04/15	REVISED - ---

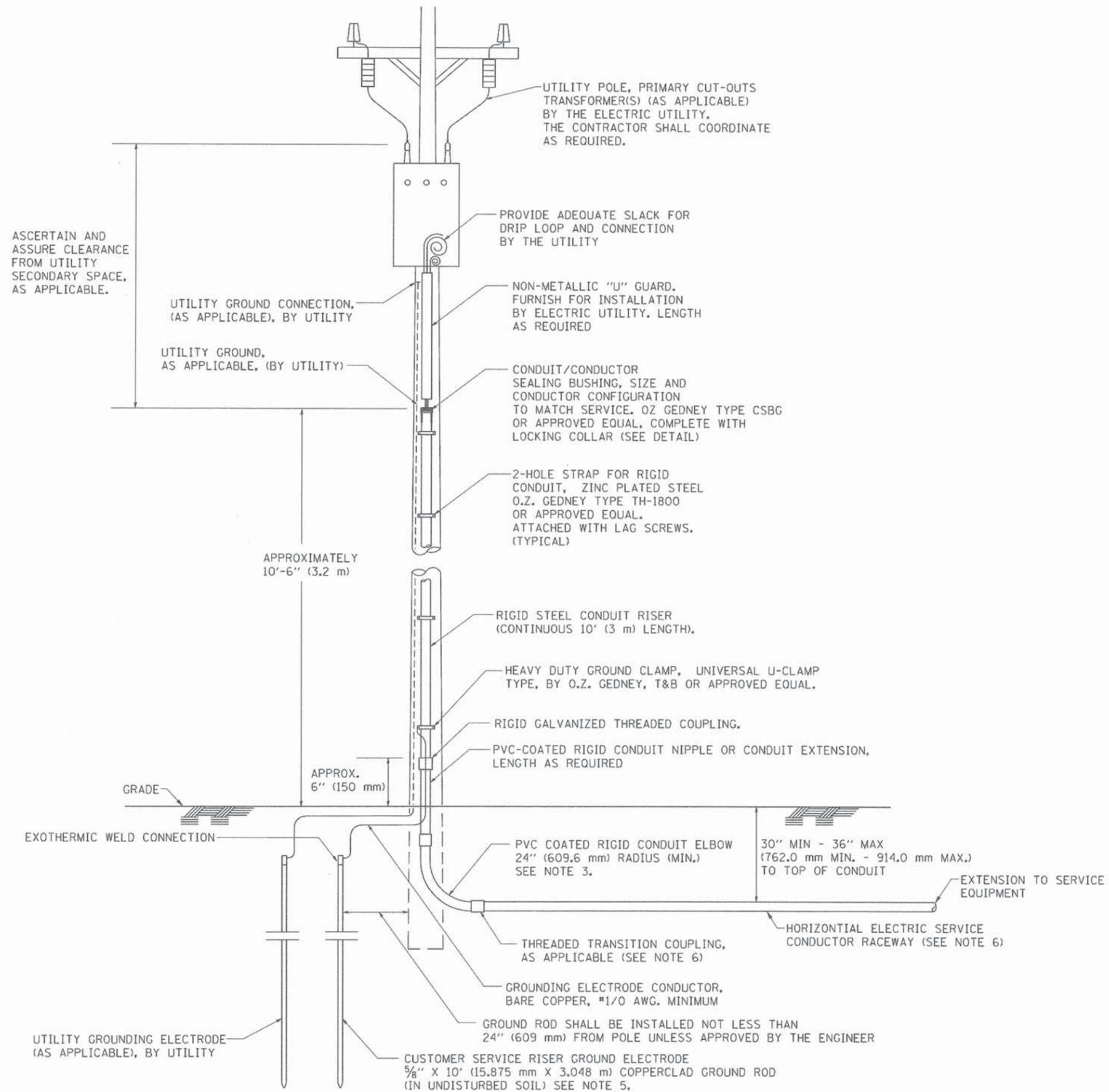
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHT PLANS FOR PROJECT LIMITS

SCALE: NONE SHEET NO. 4 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DU PAGE	33	26
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				CONTRACT NO. 61B79

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

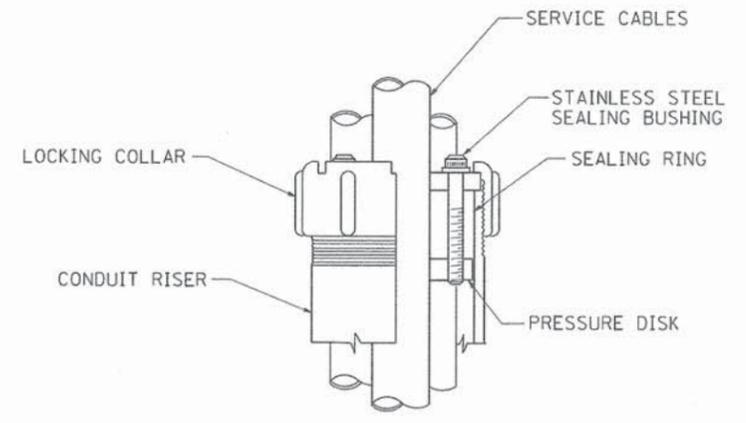


**APPLICATION**

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

**NOTES**

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

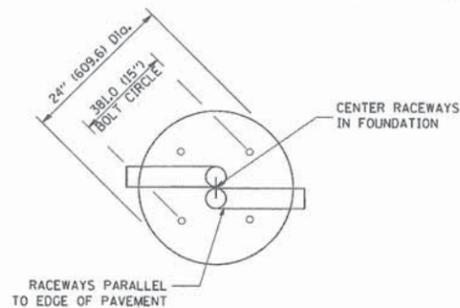


**SEALING BUSHING DETAIL**

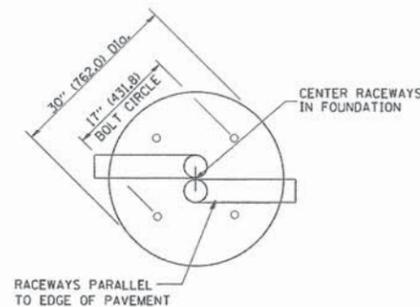
FILE NAME = W:\dststd\22x34\be228.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 03-03-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,0000' / IN.	DRAWN -	REVISED -		0369	15-00233-07-LT	DUPAGE	33	27		
	PLOT DATE = 1/4/2008	CHECKED - MEA	REVISED -		<b>BE-220</b>		<b>CONTRACT NO. 61B79</b>				
	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY 0u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY 0u = 0.75 TON/SO. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY 0u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



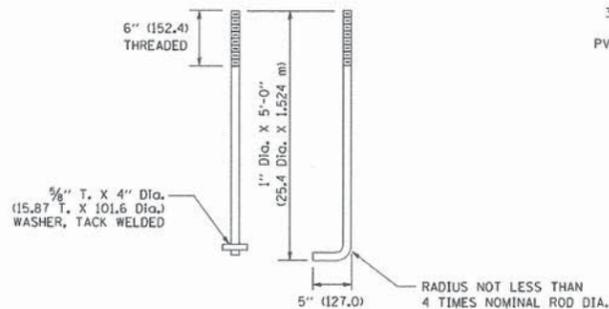
**TOP VIEW**



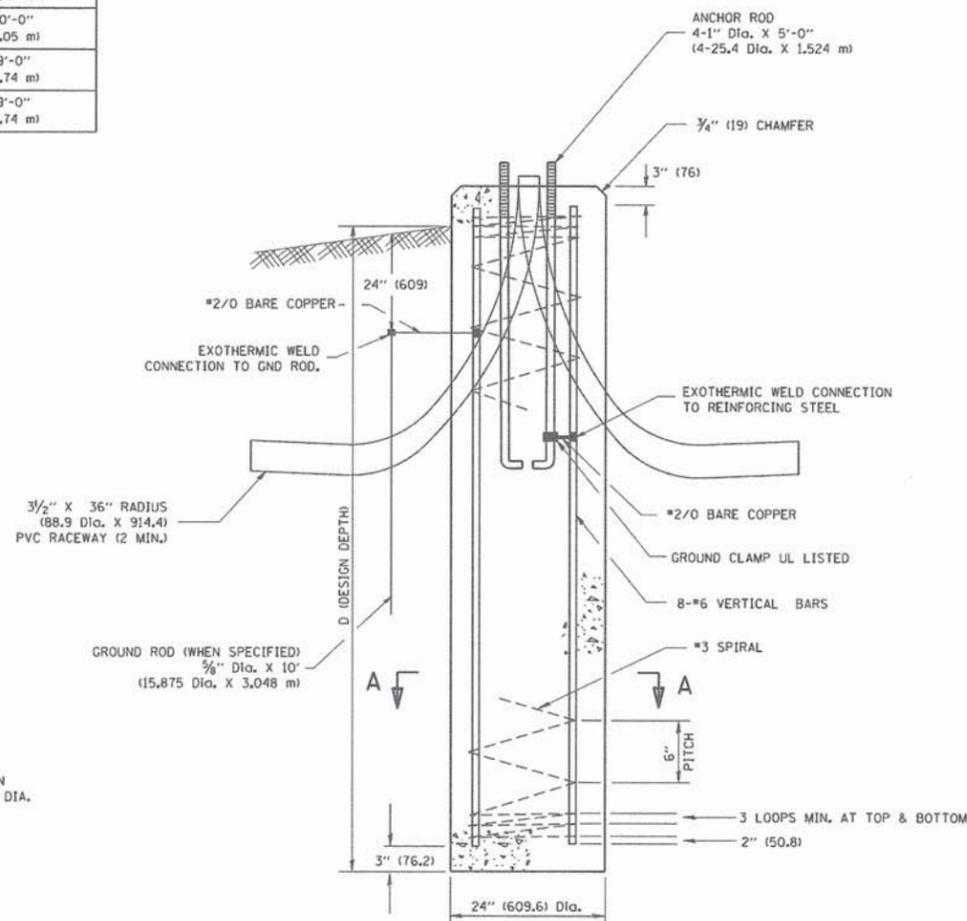
**TOP VIEW**

**NOTES**

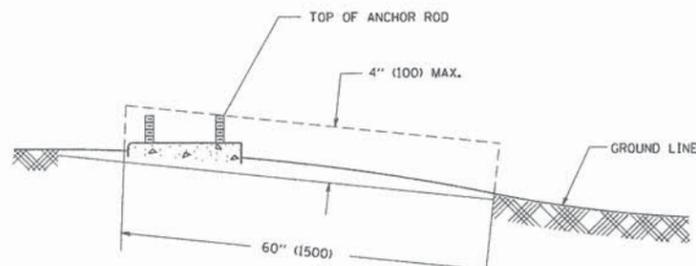
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS S1. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



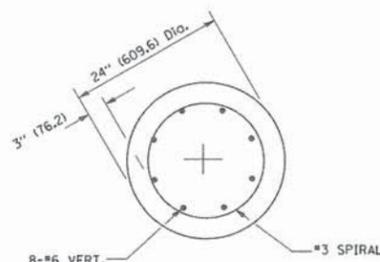
**ANCHOR ROD DETAIL**



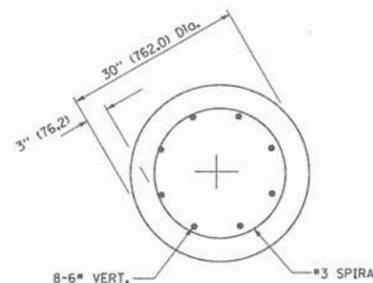
**FOUNDATION DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**



**SECTION A-A**

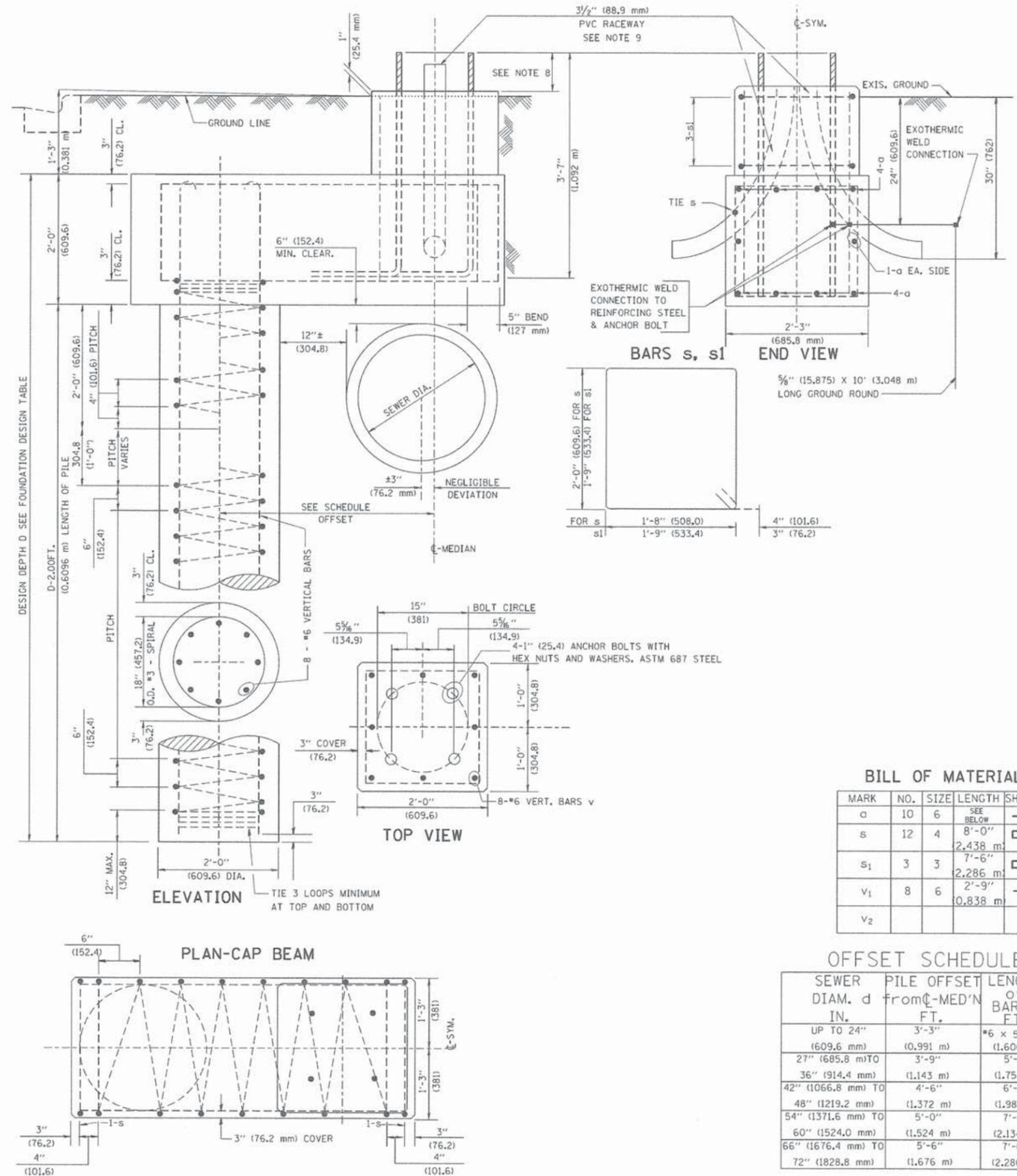
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		DRAWN -	REVISED -		40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE			0369	15-00233-07-LT	DUPAGE	33	28
		CHECKED -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BE-301		CONTRACT NO. 61B79		
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT							

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERRECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2,438 m)	□
s1	3	3	7'-6" (2,286 m)	□
v1	8	6	2'-9" (0,838 m)	—
v2				

OFFSET SCHEDULE

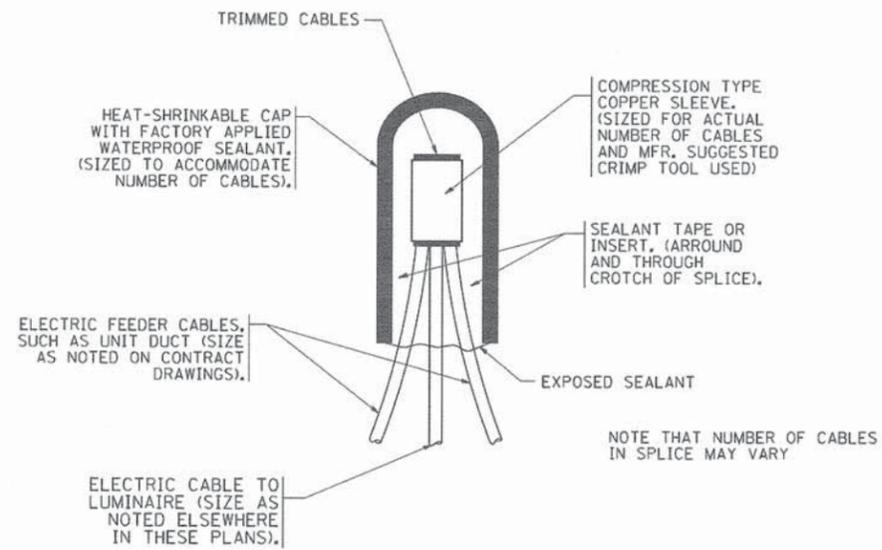
SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1,600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1,753 m)
36" (914.4 mm)	(1,143 m)	(1,753 m)
42" (1066.8 mm) TO	4'-6" (1,372 m)	6'-6" (1,981 m)
48" (1219.2 mm)	(1,372 m)	(1,981 m)
54" (1371.6 mm) TO	5'-0" (1,524 m)	7'-0" (2,134 m)
60" (1524.0 mm)	(1,524 m)	(2,134 m)
66" (1676.4 mm) TO	5'-6" (1,676 m)	7'-6" (2,286 m)
72" (1828.8 mm)	(1,676 m)	(2,286 m)

FILE NAME = K:\d1ststd22x34\be310.dgn	USER NAME = boardl	DESIGNED -	REVISED - 06-16-08 R. TOMSONS
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

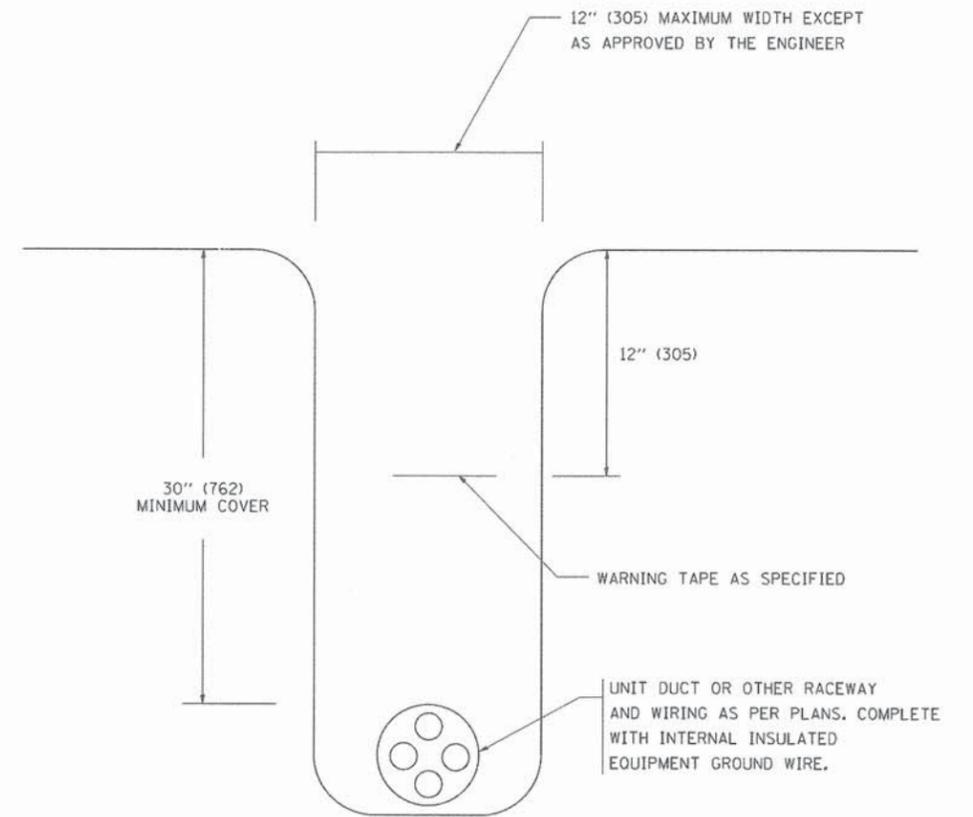
LIGHT POLE FOUNDATION OFFSET  
40' (12.192 m) TO 47 1/2' (14.478 m) M.H.  
15" (381 mm) BOLT CIRCLE

F.A.P. RTE. 0369	SECTION 15-00233-07-LT	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 29
BE-310		CONTRACT NO. 61B79		



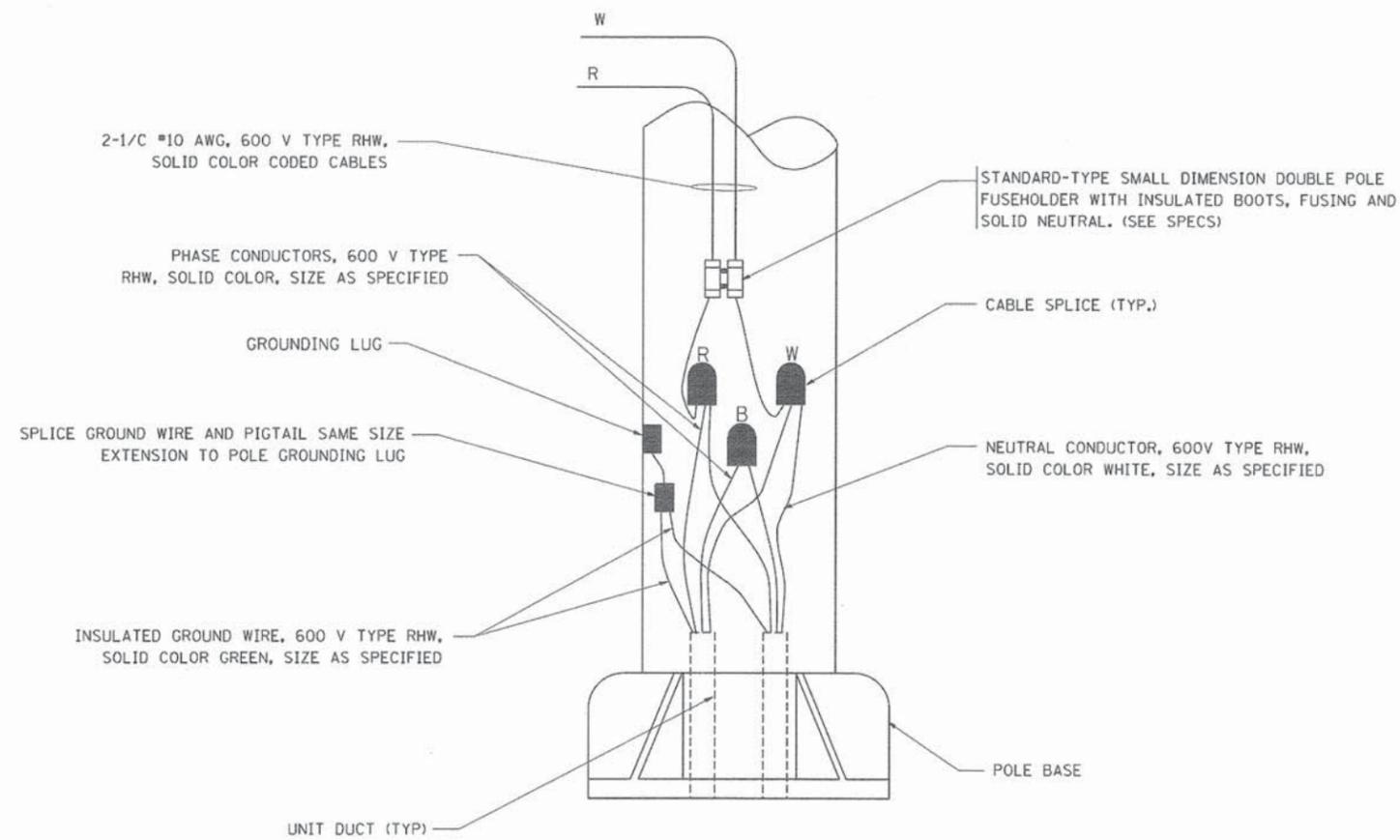
TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

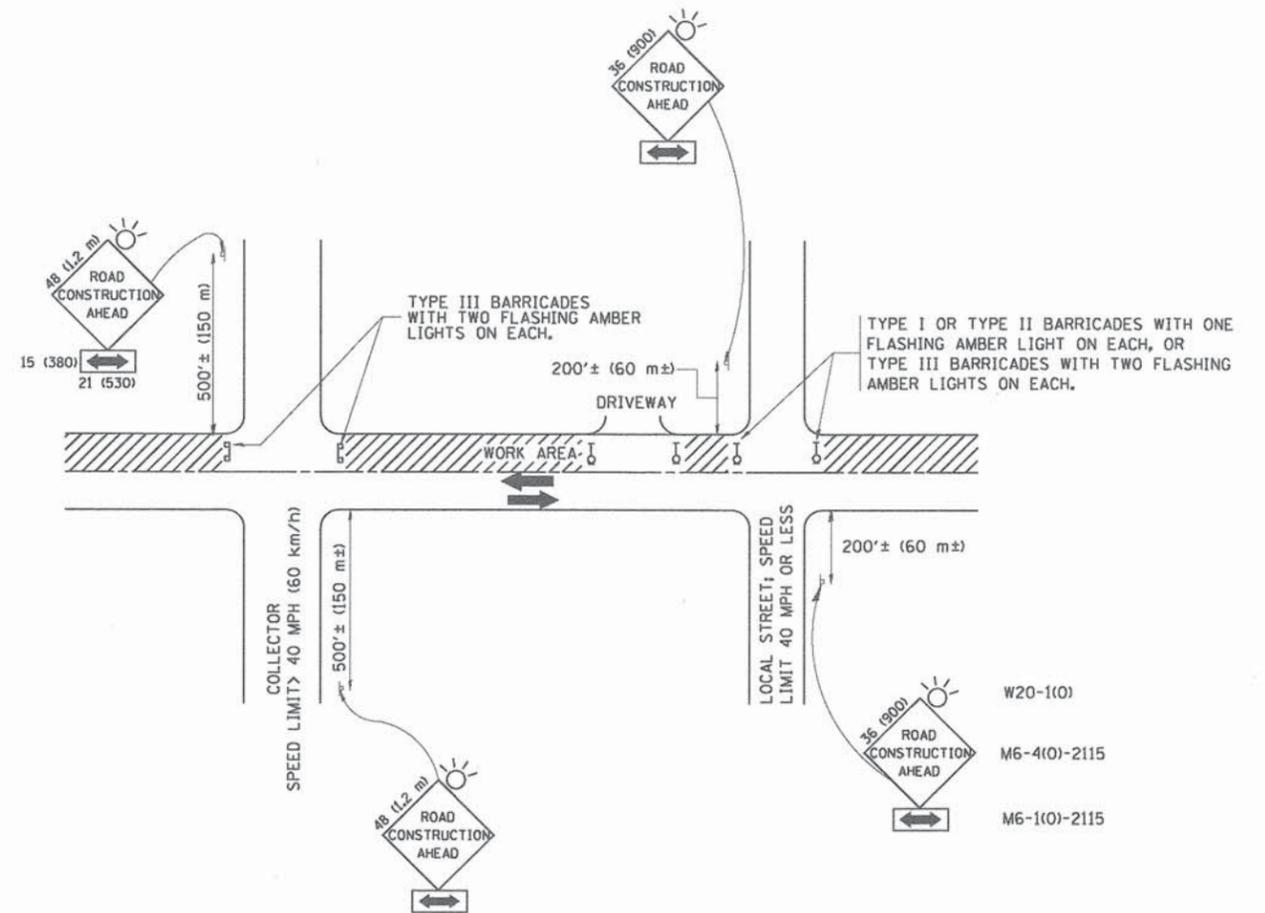
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POLE WIRING DETAIL

N.T.S.

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	PLOT SCALE = 50,000 ' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	15-00233-07-LT	DUPAGE	33	30	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -					BE-702				
		DATE -	REVISED -					CONTRACT NO. 61B79		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

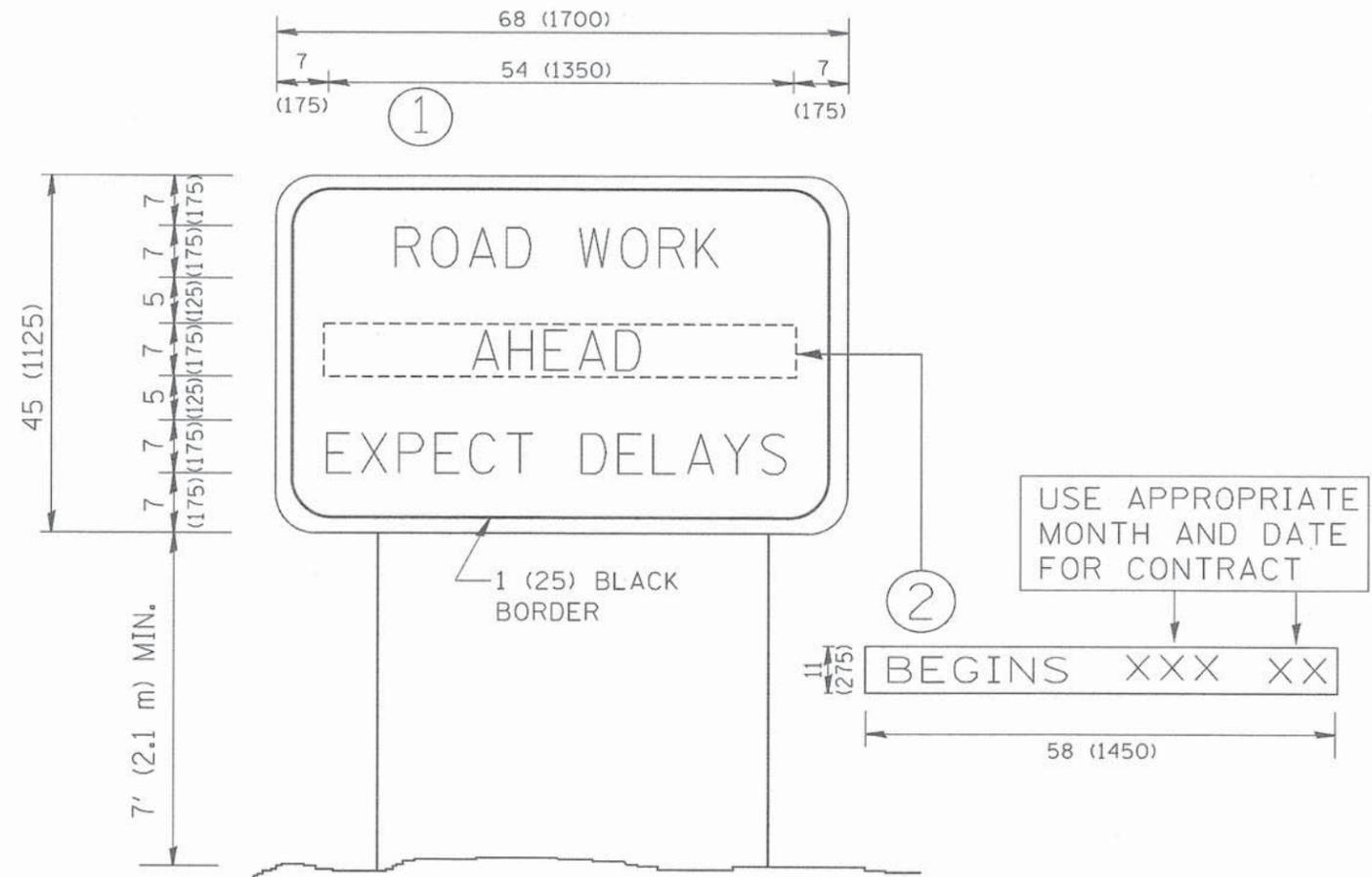
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DUPAGE	33	31
TC-10			CONTRACT NO. 61B79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = goglienbt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCLUS 01-31-07

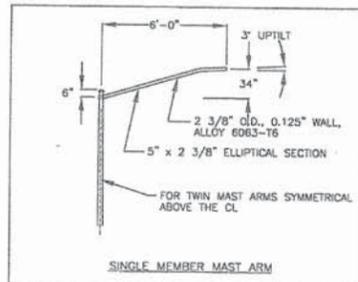
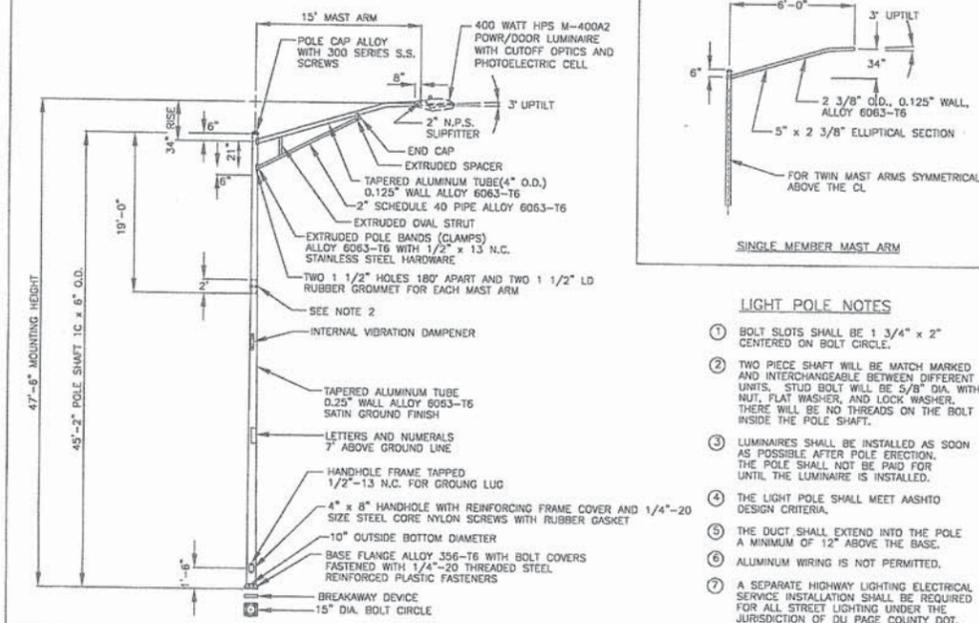
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DUPAGE	33	32
TC-22		CONTRACT NO. 61B79		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				

### COMMERCIAL STREET LIGHT DETAIL

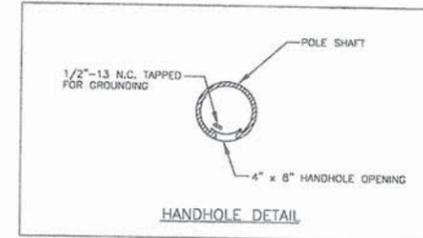
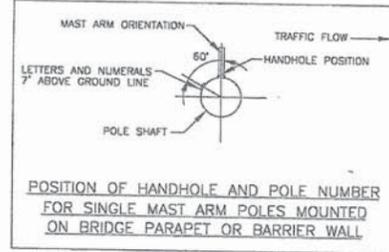
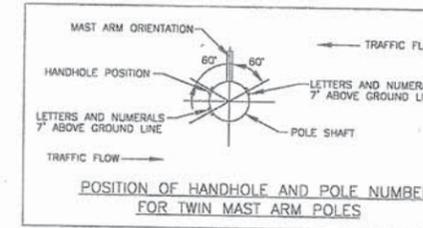
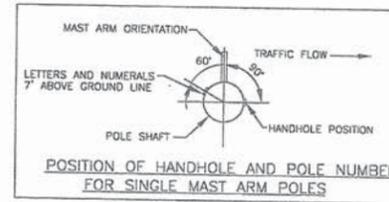


#### LIGHT POLE NOTES

- BOLT SLOTS SHALL BE 1 3/4" x 2" CENTERED ON BOLT CIRCLE.
- TWO PIECE SHAFT WILL BE MATCH MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. STUD BOLT WILL BE 5/8" DIA. WITH NUT, FLAT WASHER, AND LOCK WASHER. THERE WILL BE NO THREADS ON THE BOLT INSIDE THE POLE SHAFT.
- LUMINAIRE SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER POLE ERECTION. THE POLE SHALL NOT BE PAID FOR UNTIL THE LUMINAIRE IS INSTALLED.
- THE LIGHT POLE SHALL MEET AASHTO DESIGN CRITERIA.
- THE DUCT SHALL EXTEND INTO THE POLE A MINIMUM OF 12" ABOVE THE BASE.
- ALUMINUM WIRING IS NOT PERMITTED.
- A SEPARATE HIGHWAY LIGHTING ELECTRICAL SERVICE INSTALLATION SHALL BE REQUIRED FOR ALL STREET LIGHTING UNDER THE JURISDICTION OF DU PAGE COUNTY DOT.

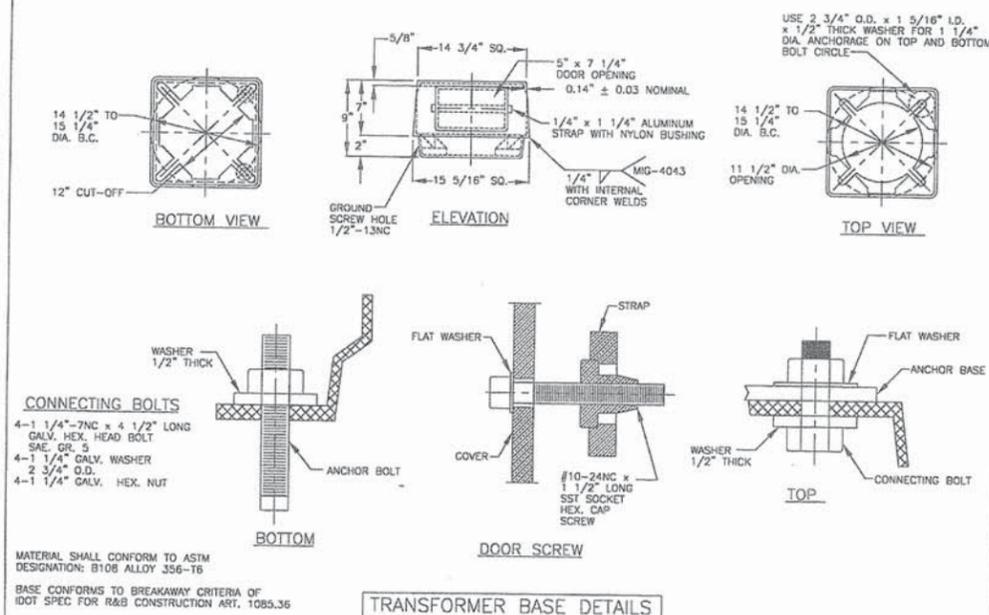
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 TOM H 08-03-00

### COMMERCIAL STREET LIGHT DETAIL



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 TOM H 08-03-00

### COMMERCIAL STREET LIGHT DETAIL



\\DOTSERVER\ENGINEERING\STANDARD\DETAILS\LTSTAN.DWG  
 TOM H 08-03-00



V3 Companies  
 7325 Jones Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 630.724.9202 fax  
 www.v3co.com

USER NAME = jbaup  
 DESIGNED - JQH  
 DRAWN - DRP  
 CHECKED - VJD  
 DATE - 02/17/15

REVISED - ---  
 REVISED - ---  
 REVISED - ---  
 REVISED - ---

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COMMERCIAL STREET LIGHT DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	15-00233-07-LT	DUPAGE	33	33
			CONTRACT NO. 61B79	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				