

SUMMARY OF QUANTITIES					FUNDING CATEGORY \ CONSTRUCTION TYPE CODE			
SPECIALTY ITEM	PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	ITEP 50/50 0031	ITEP 80/20 0028	NON-PARTICIPATING 0043	STATE ONLY 100% STATE 0005
	60601805	CONCRETE CURB TRANSITION	FOOT	63		63		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	16				16
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	5224				5224
	60626500	TRANSITIONAL COMBINATION CONCRETE CURB AND GUTTER	FOOT	357		236		121
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	310		310		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2		2		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1		1		
*	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	5		5		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1		1		
○	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	12		7.2		4.8
○	67100100	MOBILIZATION	LSUM	1		0.6		0.4
○	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	200		120		80
○	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	180		108		72
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	5100				5100
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1700				1700
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	413				413
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5538				5538

○ FINAL QUANTITIES SHALL BE SPLIT 40% STATE ONLY / 60% ITEP 80/20

SUMMARY OF QUANTITIES					FUNDING CATEGORY \ CONSTRUCTION TYPE CODE			
SPECIALTY ITEM	PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY	ITEP 50/50 0031	ITEP 80/20 0028	NON-PARTICIPATING 0043	STATE ONLY 100% STATE 0005
*	Z0015300	CURB STOPS 2"	EACH	3			3	
	Z0023600	FILLING EXISTING CULVERTS	EACH	2				2
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	13500				13500
	Z0034105	MATERIAL TRANSFER DEVICE	TON	1513				1513
	Z0041500	PLUG EXISTING CULVERTS	EACH	1				1
*	Z0049901	REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1	LSUM	1		1		
	Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	197				197
	Z0056652	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 18"	FOOT	30				30
	Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	327				327
	Z0056678	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 36"	FOOT	35				35
*	81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	5429				5429
*	87900200	DRILL EXISTING HANDHOLE	EACH	8				8
*	X0326812	CAT 5 ETHERNET CABLE	FOOT	288.5				288.5
*	X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	2				2
*	X0327607	FIBER OPTIC SPLICE-MAINLINE	EACH	2				2
*	X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	2519				2519
*	X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	2				2
*	Z0033052	COMMUNICATIONS VAULT	EACH	3				3



USER NAME = IDOTCAD	DESIGNED - KMC	REVISED - 2/22/19
PLOT SCALE = 2,000 FT / In.	DRAWN - KRS DLC	REVISED -
PLOT DATE = 1/22/2019	CHECKED - RDC	REVISED -
	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. RTE. 29
SUMMARY OF QUANTITIES**

SCALE: NONE SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 669	SECTION 16-00045-01-SW	COUNTY TAZEWELL	TOTAL SHEETS 155	SHEET NO. 16
CONTRACT NO. 89713			ILLINOIS FED. AID PROJECT 05E2(122)	

KEYED NOTES: #

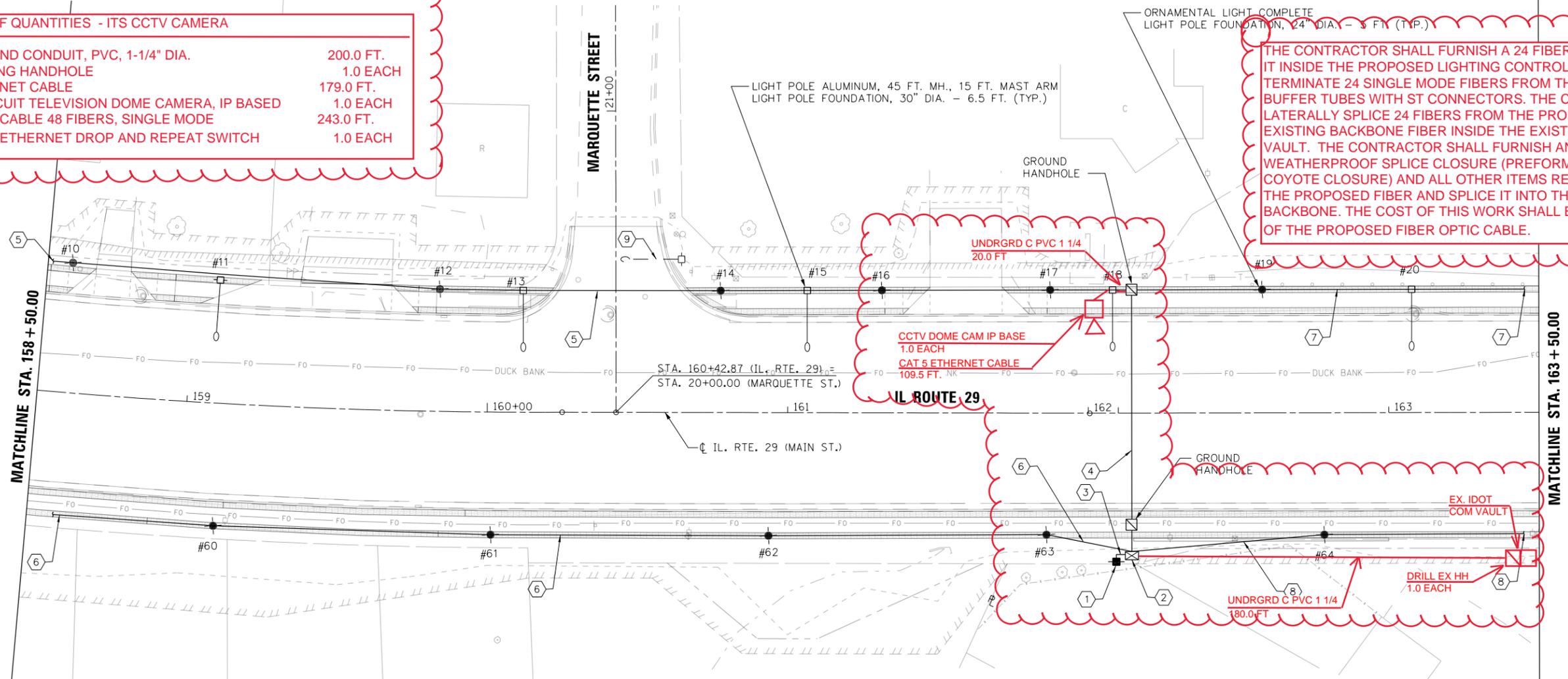
- APPROXIMATE LOCATION OF NEW AMEREN SERVICE DROP. COORDINATE WITH AMEREN FOR REQUIREMENTS.
- LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100 AMP.
- ELECTRIC SERVICE INSTALLATION PER SHEET 74 PROVIDE (2)#2 AND (1)#4 IN 2" PVC CONDUIT
- (4)#4, (2)#2 AND (2)#6 + (1)#2 GND IN 4" CONDUIT.
- (2)#4, FOR LIGHTING, AND (2)#2 FOR RECEPTACLES WITH (1)#2 GND IN 2" CONDUIT.
- (2)#10 FOR LIGHTING, AND (2)#4 FOR RECEPTACLES WITH (1)#4 GND IN 2" CONDUIT.
- (2)#6 FOR LIGHTING, AND (2)#4 FOR RECEPTACLES WITH (1)#4 GND IN 2" CONDUIT.
- (2)#10 FOR LIGHTING, AND (2)#6 FOR RECEPTACLES WITH (1)#6 GND IN 2" CONDUIT.
- CONTRACTOR TO REMOVE EXISTING LIGHT FIXTURE, POLE AND FOUNDATION. COORDINATE WITH AMEREN (REMOVAL OF LIGHTING UNIT, SALVAGE)

ELECTRIC CABLE SCHEDULE		ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1	UNDERGROUND CONDUIT, PVC, 2" DIA.	UNDERGROUND CONDUIT, PVC, 4" DIA.	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM	ORNAMENTAL LIGHT UNIT, COMPLETE	LUMINAIRE, LED, HORIZONTAL MOUNT, HW	ELECTRIC SERVICE INSTALLATION	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP
LOCATION		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
LT. STA 158+50.00	TO RT. STA. 163+50.00		425	1848	1422		616		5	6	5		
RT. STA 158+50.00	TO RT. STA. 163+50.00	1674	384	1290			558			5		1	1
LT. STA 162+33.00	TO RT. STA. 162+33.00		324	648	324	60	20	108					
TOTAL		1,674	1,134	3,786	1,746	60	1,194	108	5	11	5	1	1

SCHEDULE OF QUANTITIES - ITS CCTV CAMERA

UNDERGROUND CONDUIT, PVC, 1-1/4" DIA.	200.0 FT.
DRILL EXISTING HANDHOLE	1.0 EACH
CAT 5 ETHERNET CABLE	179.0 FT.
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	1.0 EACH
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	243.0 FT.
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	1.0 EACH

THE CONTRACTOR SHALL FURNISH A 24 FIBER ENCLOSURE AND INSTALL IT INSIDE THE PROPOSED LIGHTING CONTROLLER CABINET AND TERMINATE 24 SINGLE MODE FIBERS FROM THE BLUE AND ORANGE BUFFER TUBES WITH ST CONNECTORS. THE CONTRACTOR SHALL LATERALLY SPLICE 24 FIBERS FROM THE PROPOSED CABLE INTO THE EXISTING BACKBONE FIBER INSIDE THE EXISTING COMMUNICATION VAULT. THE CONTRACTOR SHALL FURNISH AND INSTALL A SEALED, WEATHERPROOF SPLICE CLOSURE (PREFORMED LINE PRODUCTS COYOTE CLOSURE) AND ALL OTHER ITEMS REQUIRED TO TERMINATE THE PROPOSED FIBER AND SPLICE IT INTO THE EXISTING FIBER BACKBONE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED FIBER OPTIC CABLE.



LEGEND:

- UNDERGROUND RACEWAY
- EXISTING LIGHT POLE
- POLE MOUNTED ROADWAY LIGHTING FIXTURE (F1)
- POLE MOUNTED ORNAMENTAL LIGHTING FIXTURE (F2)
- LIGHTING CONTROLLER
- HANDHOLE
- PROPOSED ELECTRIC SERVICE 100A WITH NEMA 4X STAINLESS STEEL DISCONNECT

POLE NUMBER	STATION	OFFSET	ITEM TYPE	FIXTURE TAG	LIGHTING FIXTURE		RECEPTACLE	
					CONTROLLER	CIRCUIT	CONTROLLER	CIRCUIT
#10	158+58.42	43.13 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	A	1	E
#11	159+08.86	40.88 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	1	A	NONE	NONE
#12	159+83.55	40.57 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	A	1	E
#13	160+11.87	40.41 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	1	A	NONE	NONE
#14	160+77.61	40.45 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	A	1	E
#15	161+06.43	40.56 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	1	A	NONE	NONE
#16	161+31.25	40.65 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	A	1	E
#17	161+87.25	40.90 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	A	1	E
#18	162+08.18	40.92 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	1	A	NONE	NONE
#19	162+57.93	40.91 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	B	1	F
#20	163+07.68	40.91 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	1	B	NONE	NONE
#60	159+10.95	40.70 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	C	1	G
#61	160+01.41	40.69 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	C	1	G
#62	160+93.65	40.83 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	C	1	G
#63	161+86.15	40.32 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	C	1	G
#64	162+78.49	40.44 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	1	D	1	H



USER NAME = IDOT	DESIGNED - KMC	REVISED - 2/22/19
PLOT SCALE = 48.0000' / in.	DRAWN - KRS DLC	REVISED -
PLOT DATE = 1/22/2019	CHECKED - RDC	REVISED -
	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL. RTE. 29 LIGHTING PLAN	
SCALE: 1" = 20'	SHEET 2 OF 6 SHEETS STA. 158+50 TO STA. 163+50

F.A.P. RTE. 669	SECTION 16-00045-01-SW	COUNTY TAZEWELL	TOTAL SHEETS 155	SHEET NO. 66
ILLINOIS FED. AID PROJECT 05E2(122)			CONTRACT NO. 89713	

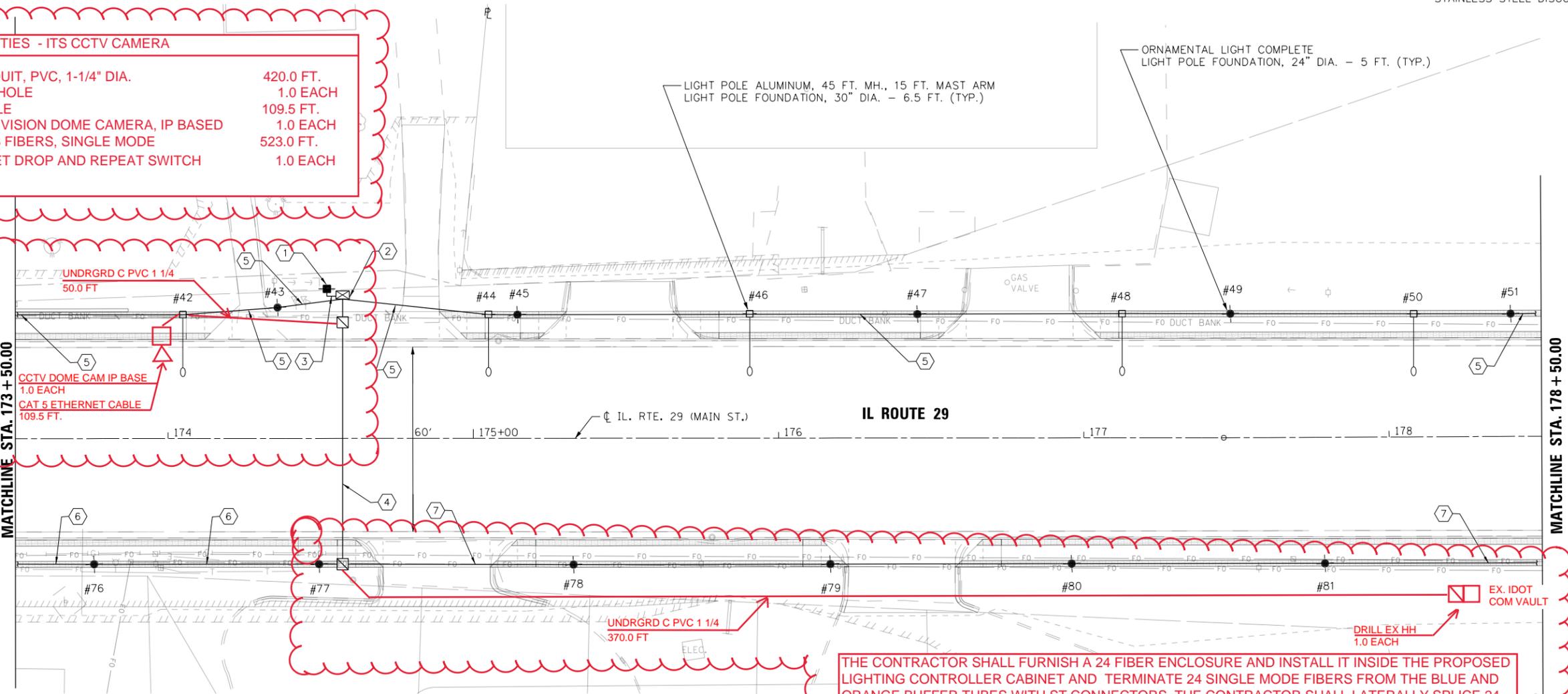
ELECTRIC CABLE SCHEDULE			ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1	UNDERGROUND CONDUIT, PVC, 2" DIA.	UNDERGROUND CONDUIT, PVC, 4" DIA.	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM	ORNAMENTAL LIGHT UNIT, COMPLETE	LUMINAIRE, LED, HORIZONTAL MOUNT, HW	ELECTRIC SERVICE INSTALLATION	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP
LOCATION			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
LT. STA 173+50.00	TO	LT. STA. 178+50.00		1842	300	1842	1416		614		5	5	5	1	1
RT. STA 173+50.00	TO	RT. STA. 178+50.00	1716						572			6			
LT. STA 174+34.00	TO	RT. STA 174+34.00	648		324		324	60	20	108					
TOTAL			2,364	1,842	624	1,842	1,740	60	1,206	108	5	11	5	1	1

LEGEND:

- UNDERGROUND RACEWAY
- EXISTING LIGHT POLE
- POLE MOUNTED ROADWAY LIGHTING FIXTURE (F1)
- POLE MOUNTED ORNAMENTAL LIGHTING FIXTURE (F2)
- LIGHTING CONTROLLER
- HANDHOLE
- PROPOSED ELECTRIC SERVICE 100A WITH NEMA 4X STAINLESS STEEL DISCONNECT

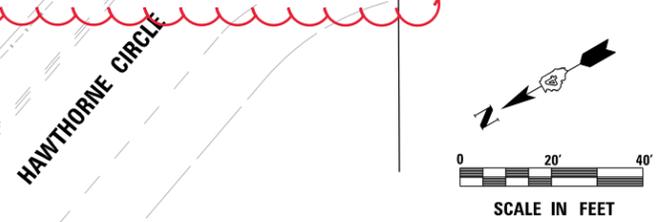
SCHEDULE OF QUANTITIES - ITS CCTV CAMERA

UNDERGROUND CONDUIT, PVC, 1-1/4" DIA. 420.0 FT.
 DRILL EXISTING HANDHOLE 1.0 EACH
 CAT 5 ETHERNET CABLE 109.5 FT.
 CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED 1.0 EACH
 FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE 523.0 FT.
 FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH 1.0 EACH



POLE NUMBER	STATION	OFFSET	ITEM TYPE	FIXTURE TAG	LIGHTING FIXTURE		RECEPTACLE	
					CONTROLLER	CIRCUIT	CONTROLLER	CIRCUIT
#42	174+04.90	40.48 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	2	A	NONE	NONE
#43	174+35.89	42.79 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	A	2	E
#44	175+05.00	40.53 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	2	B	NONE	NONE
#45	175+14.47	40.40 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	B	2	F
#46	175+90.57	40.64 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	2	B	NONE	NONE
#47	176+45.49	40.50 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	B	2	F
#48	177+12.57	40.62 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	2	B	NONE	NONE
#49	177+48.19	40.56 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	B	2	F
#50	178+08.24	40.23 LT	LED LUMINAIRE, 45' POLE, 15' MAST ARM	F1	2	B	NONE	NONE
#51	178+40.00	40.12 LT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	B	2	F
#76	173+75.76	41.08 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	C	2	G
#77	174+49.46	41.10 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	C	2	G
#78	175+32.82	41.29 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	D	2	H
#79	176+16.94	41.18 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	D	2	H
#80	176+96.01	41.07 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	D	2	H
#81	177+78.81	41.20 RT	ORNAMENTAL LIGHT UNIT, COMPLETE	F2	2	D	2	H

- KEYED NOTES:**
- APPROXIMATE LOCATION OF NEW AMEREN SERVICE DROP. COORDINATE WITH AMEREN FOR REQUIREMENTS.
 - LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100 AMP.
 - ELECTRIC SERVICE INSTALLATION PER SHEET 74 PROVIDE (2)#2 AND (1)#4 IN 2" PVC CONDUIT
 - (4)#10, (2)#4, AND (2)#3 WITH (1) #3 GND IN 4" CONDUIT.
 - (2)#8 FOR LIGHTING, AND (2)#4 FOR RECEPTACLES WITH (1) #4 GND IN 2" CONDUIT.
 - (2)#10 FOR LIGHTING, AND (2)#4 FOR RECEPTACLES WITH (1) #4 GND IN 2" CONDUIT.
 - (2)#10 FOR LIGHTING, AND (2)#3 FOR RECEPTACLES WITH (1) #3 GND IN 2" CONDUIT.



THE CONTRACTOR SHALL LOCATE AND MARK THE ENTIRE RUN OF EXISTING IDOT FIBER OPTIC CABLE BETWEEN THE PROJECT LIMITS PRIOR TO COMMENCING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL WORK WITH THE ELECTRICAL CONTRACTOR AND IDOT TO IDENTIFY AREAS WHERE THE PROPOSED CONSTRUCTION IS IN CONFLICT WITH THE EXISTING IDOT FIBER OPTIC CABLE. THE CONTRACTOR SHALL MEET WITH THE RESIDENT ENGINEER TO IDENTIFY THESE AREAS AND TO DETERMINE THE EXTENT OF RELOCATION THAT IS REQUIRED TO ACCOMODATE THE PROPOSED CONSTRUCTION. IN SOME CASES, THE EXISTING DUCT CAN BE EXPOSED AND RE-ROUTED OUT OF THE WAY OF THE PROPOSED CONSTRUCTION.

THE EXISTING CONDUIT CONSISTS OF THREE 1-1/4" DIAMETER DUCTS (LOCATED IN COMMON TRENCH), 48SM FIBER OPTIC CABLE, AND COMMUNICATIONS VAULTS.

THE FOLLOWING LOCATIONS HAVE BEEN IDENTIFIED BY THE DESIGNER AS AREAS WHERE THE EXISTING CONDUITS MAY BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS:

- STATION 159+80 (CAUTION, POSSIBLE CONFLICT WITH PROPOSED INLET)
- STATION 161+59 (CAUTION, POSSIBLE CONFLICT WITH PROPOSED INLET)
- STATION 163+78 (CAUTION, POSSIBLE CONFLICT WITH PROPOSED INLET AND STORM SEWER CROSSING)
- STATION 164+50 TO STATION 180+53 (MULTIPLE CONFLICTS, CROSSING AND LONGITUDINAL, THAT MAY REQUIRE RELOCATION)

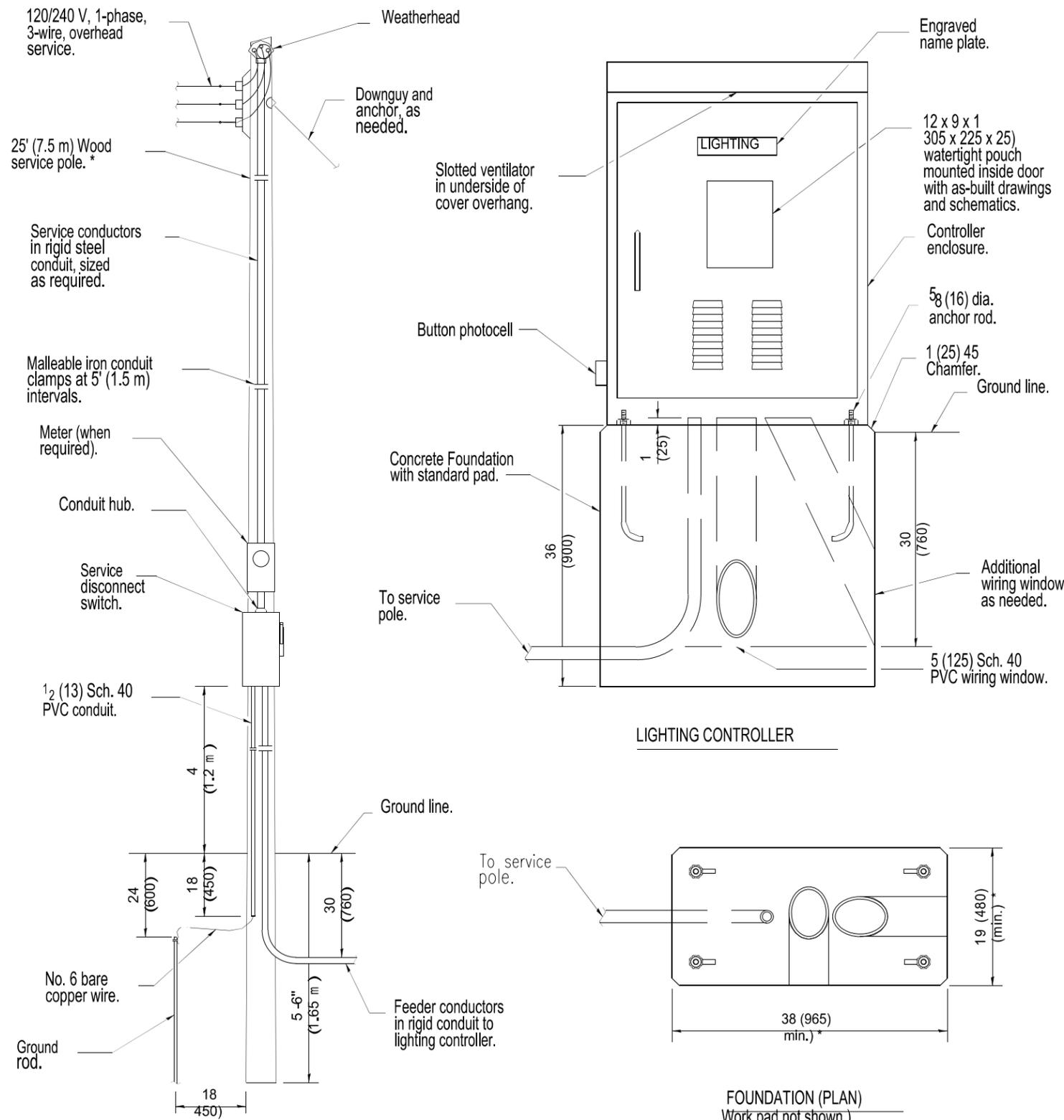
THE QUANTITIES ASSOCIATED WITH FIBER RELOCATION ARE ESTIMATED QUANTITIES AND MAY VARY DEPENDING UPON FIELD CONDITIONS.

ALL UTILITY COORDINATION AND EXISTING FIBER MARKING SHALL BE INCLUDED IN THE COST OF THE THE PROPOSED 1-1/4" DIA. UNDERGROUND CONDUIT.

RELOCATED FIBERS SHALL BE FUSION SPLICED INTO EXISTING FIBERS INSIDE COMMUNICATIONS VAULTS. THE CONTRACTOR SHALL FURNISH AND INSTALL A SEALED WATERPROOF SPLICE CLOSURE (PREFORMED LINE PRODUCTS COYOYTE CLOSURE), AND ALL ITEMS REQUIRED FOR FIBER OPTIC CABLE SPLICE. ALL SPLICE LOCATIONS WILL BE DETERMINED BY IDOT AND THE MAXIMUM NUMBER OF ALLOWABLE SPLICES IN THE RUN WILL BELIMITED TO TWO MAINLINE SPLICES. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR FIBER OPTIC SPLICE-MAINLINE.

SCHEDULE OF QUANTITIES - FIBER RELOCATION	
UNDERGROUND CONDUIT, PVC, 1-1/4" DIA.	4809.0 FOOT
DRILL EXISTING HANDHOLE	6.0 EACH
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	1753.0 FOOT
COMMUNICATIONS VAULT	3.0 EACH

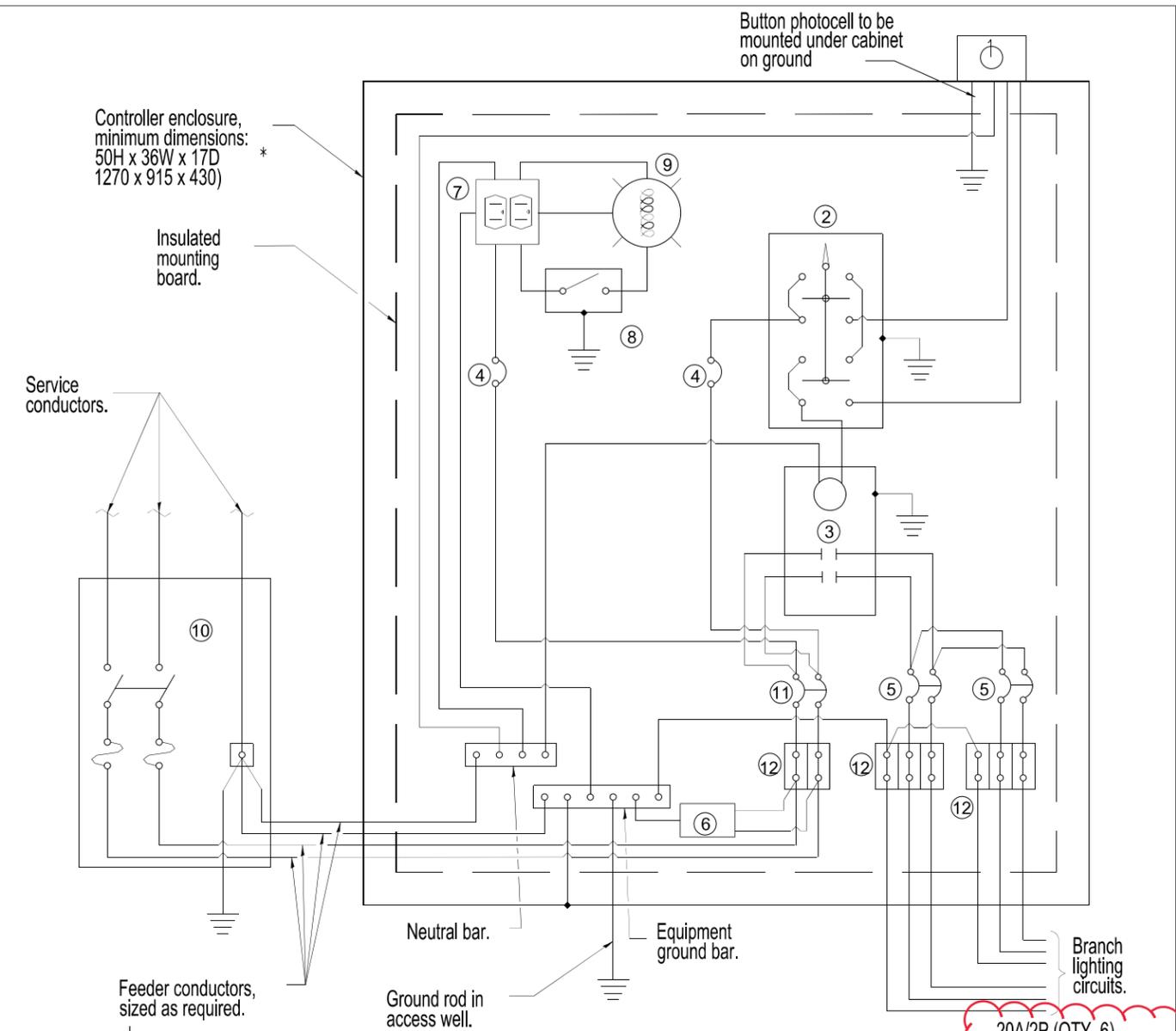
LIGHTING FIXTURES								
TAG	DESCRIPTION	LIGHTING DISTRIBUTION	LAMP				REMARKS	
			APPROXIMATE LUMENS	APPROX. WATTAGE	TYPE	COLOR TEMP		VOLTAGE
F1	ROADWAY LIGHTING FIXTURE ASSEMBLY CONSISTING OF A TAPERED ALUMINUM POLE, & 15' LONG CURVED TRUSS ARM WITH AN OVERALL MOUNTING HEIGHT OF 45' WITH A ROADWAY TYPE LIGHTING LUMINAIRE WITH A CAST ALUMINUM POWER-PAD HOUSING, FULL CUT-OFF OPTICS, AND IES TYPE III DISTRIBUTION. ENTIRE FIXTURE ASSEMBLY SHALL COMPLY WITH IDOT PERFORMANCE SPECIFICATIONS. ASSEMBLY SHALL BE AS DETAILED ON DRAWINGS.	ROADWAY TYPE III	41,857	388	LED	4,000K	240	
F2	SITE LIGHTING FIXTURE ASSEMBLY CONSISTING OF A 14' CAST ALUMINUM ORNAMENTAL POLE WITH CAST RAISED FLUTED BASE WITH A 16" TO 24" OVERALL HEIGHT, TAPERED 6 1/2" TO 4" FLUTED POLE WITH (1) POST TOP MOUNTED ACORN STYLE LUMINAIRE WITH CAST ALUMINUM HOUSING, AND PRESSED PRISMATIC GLASS REFLECTOR. LUMINAIRE SHALL HAVE IES TYPE III LUNAR OPTIC LIGHTING DISTRIBUTION AS REQUIRED. ASSEMBLY SHALL BE AS DETAILED ON THE DRAWINGS.	TYPE III LUNAR OPTIC	1,340	26	LED	4,000K	240	GFCI RECEPTACLE MOUNTED IN POLE, (2) BANNER ARMS ON POLES, FUSED ON EACH PHASE, AND ON RECEPTACLE, & FIXED FLAG HOLDER.
NOTES: 1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE AND MOUNTING COMPONENTS FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. 2. ALL IDOT SPECIFICATIONS SHALL BE FOLLOWED WHEN SELECTING FIXTURES AND HARDWARE. 3. REFER TO DETAILS FOR MOUNTING, POLES, AND ADDITIONAL REQUIREMENTS. 4. COORDINATE WITH EXISTING FIXTURES FOR LOOK AND COLOR TO MATCH THE APPEARANCE. 5. CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FROM THE MANUFACTURER USING A LIGHT LOSS FACTOR OF 0.684 TO THE ENGINEER DURING THE SUBMITTAL PROCESS. ALL PHOTOMETRIC REQUIREMENTS LISTED IN PERFORMANCE REQUIREMENTS ON THE LUMINAIRE PERFORMANCE TABLE SHALL BE MET.								



(Typical overhead service shown. Cut pole off for underground service and treat cut surface with preservative. Consult utility company standards for exact requirements.)
* Size larger as needed.

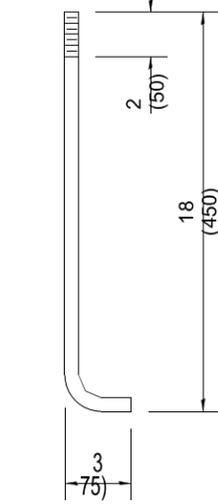
LIGHTING CONTROLLER SHALL BE EQUIPPED WITH ONE NEMA 5-15 DUPLEX RECEPTACLE (NON GFCI) THAT IS CONNECTED TO A SEPARATE 20A//1P CIRCUIT BREAKER TO BE USED FOR ITS EQUIPMENT

CONTRACTOR SHALL INSTALL A 12" SECTION OF DIN RAIL FOR THE ITS EQUIPMENT AND EQUIPMENT SURGE PROTECTOR/POWER STRIP (INCLUDED IN PAY ITEM FOR FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH) INSIDE LIGHTING CONTROLLER CABINET



- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ LED lamp, 800 lumen, enclosed and gasketed
- ⑩ Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ 100 amp*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.

20A/2P (QTY. 6)
20A/1P (QTY. 6) ~~7~~
(QTY Includes Spare Breakers)



* Size larger as needed.

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

LIGHTING CONTROLLER BASE MOUNTED, 240V DETAIL	
CONTRACT 89713	
TOTAL SHEETS 155	SHEET NO. 74