




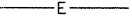

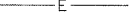


LIGHTING NOTES

1. CAST A GROUND ROD 5/8 " IN DIAMETER BY 10 FEET IN LENGTH INSIDE EVERY CONCRETE POLE FOUNDATION AND CONNECT TO THE POLE GROUNDING LUG VIA A #6 SOLID COPPER WIRE WITH A MECHANICAL CONNECTION AT THE GROUND ROD AND PIGTAIL SPLICE INSIDE THE POLE HANDHOLE.
2. ALL POLE HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
3. UNIT DUCT SHALL BE 1" DIAMETER SCH 40 HDPE WITH 1/C #10, 1/C #10 NEUTRAL & 1/C #10 GROUND XLP-TYPE USE CABLES.
4. LUMINAIRES SHALL BE LEVEL & HAVE A TIGHT FIT ON MAST ARMS TO THE OWNER'S SATISFACTION. THIS WORK SHALL INCLUDE FIELD ADJUSTING OF THE LUMINAIRE WHICH WILL BE INCIDENTAL TO THE "LIGHTPOLE" PAY ITEM.
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE VILLAGE OF FOREST PARK BEFORE THE START OF WORK.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT.
 - B. "THE NATIONAL ELECTRICAL CODE".
 - C. MUNICIPAL CODES & STANDARDS.
7. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED SUFFICIENTLY.
8. TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE CONTRACTOR SHALL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED.
9. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD UTILITIES CALL COM ED FOR LOCATION APPROVAL.
10. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE OWNER'S REPRESENTATIVE.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO AUGERING FOR LIGHT POLE FOUNDATIONS. THE EXACT LOCATIONS OF ALL PROPOSED ITEMS SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
12. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE MECHANICAL TYPE UL LISTED FOR DIRECT BURIAL USE, AS SPECIFIED, AND SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
13. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE REVIEWED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING FLOWING OPERATIONS, AS APPLICABLE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE AND THE TOP OF THE FOUNDATIONS HEIGHTS.
15. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
16. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
17. ALL DISTURBED AREA WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
18. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
19. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
20. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
21. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.

BILL OF MATERIALS

CODE NO.	DESCRIPTION	UNIT	QUANTITY
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	510
81000700	CONDUIT IN TRENCH, 2 1/2 " DIA., GALVANIZED STEEL	FOOT	75
81017515	CONDUIT IN TRENCH, 1 1/4 " DIA., COILABLE NONMETALLIC CONDUIT	FOOT	820
81030100	CONDUIT SPLICE	EACH	11
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1
81702415	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3-1/C NO. 6	FOOT	1390
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2640
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	124
83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	20
84200700	LIGHTING FOUNDATION REMOVAL	EACH	5
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3
X0321478	MAINTENANCE OF EXISTING LIGHTING SYSTEMS	LSUM	1
X0322951	CABLE SPLICE, SPECIAL	EACH	9
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	4
X8950215	RELOCATE EXISTING HANDHOLE	EACH	3
XX004887	ORNAMENTAL LIGHTING UNIT, COMPLETE	EACH	16
XX006937	GROUND ROD, 5/8 " X 10FT.	EACH	21
	REMOVE, STORE AND REINSTALL EXISTING LIGHTING UNIT	EACH	2
	UNIT DUCT, 600V, 1/C #10, 1/C #10 NEUTRAL & 1/C #10 GND. (XLP TYPE-USE) IN 1" DIA. SCH 40 HDPE, BORED & PULLED	FOOT	1970
	UNIT DUCT, 600V, 2/C #6, 2/C #6 NEUTRAL & 1/C #6 GND. (XLP TYPE-USE) IN 1 1/4 " DIA. SCH 40 HDPE, BORED & PULLED	FOOT	200

LEGEND

       	<p>50W HIGH PRESSURE SODIUM POST TOP LUMINAIRE WITH TYPE V CUTOFF OPTICS MOUNTED ON A 10'-0" ORNAMENTAL LIGHT POLE</p> <p>RELOCATED COBRA HEAD TYPE LUMINAIRE MOUNTED ON AN 8' MAST ARM ON A 25' SPUN ALUMINUM LIGHT POLE (OWNED & MAINTAINED BY THE VILLAGE OF FOREST PARK)</p> <p>EXISTING COBRA HEAD TYPE LUMINAIRE MOUNTED ON AN 8' MAST ARM ON A 25' SPUN ALUMINUM LIGHT POLE (OWNED & MAINTAINED BY THE VILLAGE OF FOREST PARK)</p> <p>PROPOSED WIRE IN UNIT DUCT AS SHOWN ON LIGHTING PLANS</p> <p>PROPOSED RGS CONDUIT SLEEVE FOR UNIT DUCT UNDER PAVEMENT</p> <p>EXISTING ELECTRIC CABLES IN UNIT DUCT</p> <p>EXISTING LIGHTING CONTROLLER</p> <p>PROPOSED COMPOSITE CONCRETE HANDHOLE</p> <p>EXISTING CONCRETE HANDHOLE</p>	<p>P1 ← PROPOSED POLE NUMBER</p> <p>E(2) ← EXISTING LIGHTING CIRCUIT IDENTIFIER</p> <p>← EXISTING CONTROLLER IDENTIFIER</p> <p>RP ← RELOCATED POLE</p> <p>EP ← EXISTING POLE</p> <p>2" RGS ← RIGID GALVANIZED STEEL CONDUIT</p> <p>T OR P ← TRENCHED OR PUSHED</p> <p>—) —) —) —) ← EXISTING SANITARY SEWER</p> <p>—) —) ← EXISTING STORM SEWER</p> <p>— W — ← EXISTING WATERMAIN</p> <p>— OH — ← EXISTING OVERHEAD WIRES</p> <p>— G — ← EXISTING GAS LINE</p>
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