

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	03-00247-00-BR	KANE	121	33
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

E-01 OF E-09  
CONTRACT #: 83867

GENERAL NOTES

- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRANCH AND BACKFILL FOR ELECTRICAL WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL OTHER ROADWAY LIGHTING ITEMS, INCLUDING THE LIGHTING CONTROLLER SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT EIGHT (8) COPIES OF APPROVABLE MANUFACTURER'S PRODUCT DATA AND DETAIL SHOP DRAWINGS FOR ENGINEER APPROVAL WITHIN 30 DAYS AFTER CONTRACT EXECUTION TO THE MCHENRY OFFICE OF SMITH ENGINEERING CONSULTANTS, 4500 PRIME PARKWAY MCHENRY, IL 60050 PH. (815) 385-1778. THE FOLLOWING SHALL BE INCLUDED:
  - TRENCH: ELECTRICAL WARNING TAPE
  - FOUNDATION: CLASS "SI" CONCRETE, REINFORCEMENT, RACEWAYS, ANCHOR BOLTS WITH NUTS AND WASHERS.
  - CONDUIT: CONDUIT AND CONDUIT FITTINGS.
  - GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.
  - UNIT DUCT/CABLES
  - ELECTRIC CABLES
  - LIGHT POLE/ARM: POLE DETAILS, SHOP DRAWINGS, AND WIND LOAD CALCULATIONS, POLE WIRE.
  - LUMINAIRE: ROADWAY LUMINAIRE WITH BALLAST ASSEMBLY.
  - ELECTRICAL ITEMS: ELECTRIC TAPES, QUICK DISCONNECT WITH FUSE, LAMPS.
  - LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS, PAINT.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZE COMPLETE, ACCURATE "RECORD DRAWING" PLAN SETS TO THE ENGINEER FOR REVIEW AND COMMENT, AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL GIVE CONSTRUCTION STAGING FOR THE PROPOSED LIGHTING WORK IN WRITING TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.
- THE LIGHT POLE SETBACK SHALL BE 6' FROM THE BACK OF CURB TO THE FACE OF THE FOUNDATION UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
- THE PROPOSED TRENCH SHALL BE 36 INCHES BELOW FINISHED GRADE.
- BALLAST LOSSES SHALL NOT EXCEED 17.5% FOR A 250 WATT HPS, 55 V LAMP LUMINAIRE.
- THE EXISTING LIGHT POLES ON THE SOUTH SIDE OF ILLINOIS AVENUE SHALL BE MAINTAINED AND REMAIN FUNCTIONAL FOR THE DURATION OF STAGE I CONSTRUCTION. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL PROTECTION."
- THE PROPOSED LIGHT POLES TO BE INSTALLED ON THE NORTH SIDE OF THE ILLINOIS AVENUE, THE PROPOSED LIGHTING CONTROLLERS, AND PROPOSED WIRING AND CONDUIT REQUIRED TO SERVICE THESE LIGHT POLES SHALL BE INSTALLED DURING STAGE I CONSTRUCTION AND SHALL BE FUNCTIONAL PRIOR TO BEGINNING STAGE II CONSTRUCTION. THE CONTRACTOR HAS THE OPTION TO TEMPORARILY RE-INSTALL EXISTING SALVAGED LIGHT POLES AT PROPOSED LIGHT POLE LOCATIONS TO PROVIDE TEMPORARY ROADWAY LIGHTING DURING STAGE II UNTIL THE PROPOSED LIGHT POLES CAN BE INSTALLED. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION."

BILL OF MATERIALS			TOTAL QUANTITIES
CODE NO.	ITEM	UNIT	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
80700140	GROUND ROD, 3/4" DIA. x 10 FT	EACH	15
81000600	CONDUIT IN TRENCH, 2" DIA. GALVANIZED STEEL	FOOT	790
81018500	CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL	FOOT	137
81100200	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA. GALVANIZED STEEL	FOOT	152
81400100	HANDHOLES	EACH	24
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,544
81702440	ELECTRIC CABLE IN CONDUIT 600V (XLP TYPE USE) 3-1/C NO. 1/0	FOOT	200
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	23
82500530	LIGHTING CONTROLLER TYPE CB-RCS 100 AMP - 240 VOLT	EACH	2
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	121
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	16
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
XX003070	LUMINAIRE (SPECIAL)	EACH	8
	UNIT DUCT WITH 2-1/C NO. 8 AND 1/C NO. 8 GROUND 600 V (XHHW-2), 1" DIA. POLYETHYLENE	FOOT	2,470
	UNIT DUCT WITH 4-1/C NO. 8 AND 2-1/C NO. 8 GROUND 600 V (XHHW-2), 1" DIA. POLYETHYLENE	FOOT	20
	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 6 1/C NO. 8	FOOT	162
	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 3 1/C NO. 8	FOOT	77
	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 2-1/C NO. 12	FOOT	168
	ELECTRIC CABLE IN CONDUIT 600 V (XHHW-2), 1/C NO. 12 GROUND	FOOT	168
	LIGHT POLE, STEEL, 31 FT M.H., 12 FT MAST ARM	EACH	15
	LIGHT POLE, STEEL, 31 FT M.H., 12 FT MAST ARM, TWIN	EACH	4

THE FOLLOWING ITEMS ARE EMBEDDED IN THE BRIDGE SUPERSTRUCTURES

- ANCHOR BOLTS FOR LIGHTING UNIT FOUNDATION
- 2" DIA. PVC CONDUIT (SCHEDULE 40)
- EXPANSION FITTINGS SHALL BE INSTALLED AT BRIDGE EXPANSION JOINTS FOR ALL ELECTRICAL RACEWAY RUNS

THE COST OF FURNISHING THESE MATERIALS SHALL BE INCLUDED WITH "CONCRETE SUPERSTRUCTURE" AND SHALL NOT BE PAID FOR SEPARATELY. SEE BRIDGE PLANS FOR ADDITIONAL DETAILS.

REVISIONS	
NO.	DATE
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ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CITY OF AURORA  
ILLINOIS AVENUE OVER THE FOX RIVER  
LIGHTING GENERAL NOTES AND BILL OF MATERIALS

SCALE: "NTS"  
DATE 07-28-2006

DRAWN BY MPL  
CHECKED BY GB