LIGHTING NOTES

1. ALL LIGHT POLE ANCHOR BOLTS SHALL BE BONDED TO BRIDGE REBAR/STEEL.
2. ALL POLE HANDHOLES SHALL FACE STREETSIDE.
3. ELECTRIC SERVICE CONDUIT AND ALL CONDUIT UNDER ROADWAYS SHALL BE RIGID GALVANIZED STEEL. ALL UNDERGROUND BRANCH CIRCUIT CONDUIT SHALL BE 1½" SCH40 HDPE. ALL CONDUIT EMBEDDED IN CONCRETE SHALL BE SCH40 PVC. ALL WIRING SHALL BE XLP-TYPE USE.
4. 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.
5. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE OWNER'S REPRESENTATIVE.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL EQUIPMENT FOR EXAMINATION AND CONFIRMATION WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
7. 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.
8. 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 PLOWING OPERATIONS, AS APPLICABLE.
9. THE CONTRACTOR SHALL TAG ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY POLE BASE, HAND HOLE AND SPLICE/CONNECTION POINT.
10. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED IN EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. NO SPLICING SHALL BE ALLOWED IN CONCRETE HAND HOLES.
11. 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.
12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
13. 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.
14. THE ELECTRICAL CONTRACTOR SHALL FURNISH ONE SET OF RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATION OF ALL LIGHTS, UNDERGROUND WIRING & CONTROLLER CABINETS.
15. THE CONTRACTOR SHALL PROVIDE A GUARANTEE FOR ALL MATERIAL AND WORKMANSHIP FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE.
16. 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.

ITS NOTES

1. ITS HANGAR SPACING SHALL NOT EXCEED 8'. INSTALLATION AND MATERIALS FOR HANGAR INSTALLATION IS INCIDENTAL TO INSTALLATION OF ITS CONDUIT.
2. THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS WITH THE BRIDGE DECK CONTRACTOR.
3. SECURE THE ITS CONDUIT WITH CONDUIT CLAMPS WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX OR CHANGE IN DIRETION. ALL CONDUIT CLAMPS WILL BE INCLUDED WITH THE COST OF THE CONDUIT.
4. PROVIDE EXPANSION/DEFLECTION FITTINGS FOR CONDUIT AS REQUIRED BY THE MANUFACTURER. THESE FITTINGS ARE TO ACCOMODATE MOVEMENT UP TO 2" IN EACH DIRECTION. COST AND INSTALLATION OF EXPANSION/DEFLECTION FITTINGS ARE INCIDENTAL TO COST OF THE CONDUIT PAY ITEM.

LIGHTING BILL OF MATERIALS

CODE NO.	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	280
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	70
81017520	CONDUIT IN TRENCH, 1 1/2" DIA., COILABLE NONMETALLIC CONDUIT	FOOT	840
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	3
81702400	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3-1/C NO. 2	FOOT	330
81702420	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3-1/C NO. 8	FOOT	3140
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1050
82500530	LIGHTING CONTROLLER TYPE CB-RCS 100AMP-240VOLT	EACH	1
XX000303	ORNAMENTAL LIGHTING UNIT COMPLETE	EACH	12
XX006937	GROUND ROD, 5/8"x10 FT.	EACH	3

ITS BILL OF MATERIALS

CODE NO.	DESCRIPTION	UNIT	QUANTITY
81000700	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL	FOOT	1450
81100700	CONDUIT ATTACHED TO STRUCTURE, 2½" DIA., GALVANIZED STEEL	FOOT	3880
81300710	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 12" X 6"	EACH	8
81300948	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	8
81400100	HANDHOLE	EACH	4
81400300	DOUBLE HANDHOLE	EACH	4
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1450
	5" RIGID GALVANIZED STEEL MULTI-DUCT W/ 4 1-1/4" INNER DUCT IN TRENCH	FOOT	1450
	5" RIGID GALVANIZED STEEL MULTI-DUCT W/ 4 1-1/4" INNER DUCT ATTACHED TO STRUCTURE	FOOT	3880

LEGEND

- 12' ORNAMENTAL LIGHT POLE WITH A 50W METAL HALIDE POST TOP LUMINAIRE WITH TYPE 3 CUTOFF OPTICS
- UD — PROPOSED WIRE IN UNIT DUCT AS SHOWN ON PLANS (LIGHTING)
- UD — PROPOSED RGS CONDUIT SLEEVE FOR UNIT DUCT UNDER PAVEMENT (LIGHTING)
- E — PROPOSED ELECTRIC CABLES IN CONDUIT AS SHOWN ON PLANS (LIGHTING)
- PROPOSED RGS CONDUIT (ITS)
- PROPOSED LIGHTING CONTROLLER
- H — PROPOSED COMPOSITE CONCRETE HANDHOLE (LIGHTING)
- PROPOSED CONCRETE HANDHOLE (ITS)
- PROPOSED CONCRETE DOUBLE HANDHOLE (ITS)
- PROPOSED STAINLESS STEEL JUNCTION BOX (ITS)
- P1 = CKT A — PROPOSED LIGHT POLE NUMBER; LIGHTING CIRCUIT IDENTIFIER
- 2" RGS-T OR P — RIGID GALVANIZED STEEL CONDUIT; TRENCHED OR PUSHED
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- W — EXISTING WATERMAIN
- OH — EXISTING OVERHEAD WIRES
- G — EXISTING GAS LINE

FILE NAME = NOT_070793-01.pln	USER NAME = GTINE	DESIGNED AJD	REVISED -
		DRAWN KWB	REVISED -
	PLOT SCALE = 30'	CHECKED AJD	REVISED -
	PLOT DATE = 2/12/2009	DATE 01/16/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEARNS ROAD BRIDGE
LIGHTING / ITS NOTES AND BILL OF MATERIALS

SCALE: 1"= 30' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-00214-20-BR	KANE	320	92
		CONTRACT NO. 63075		

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