

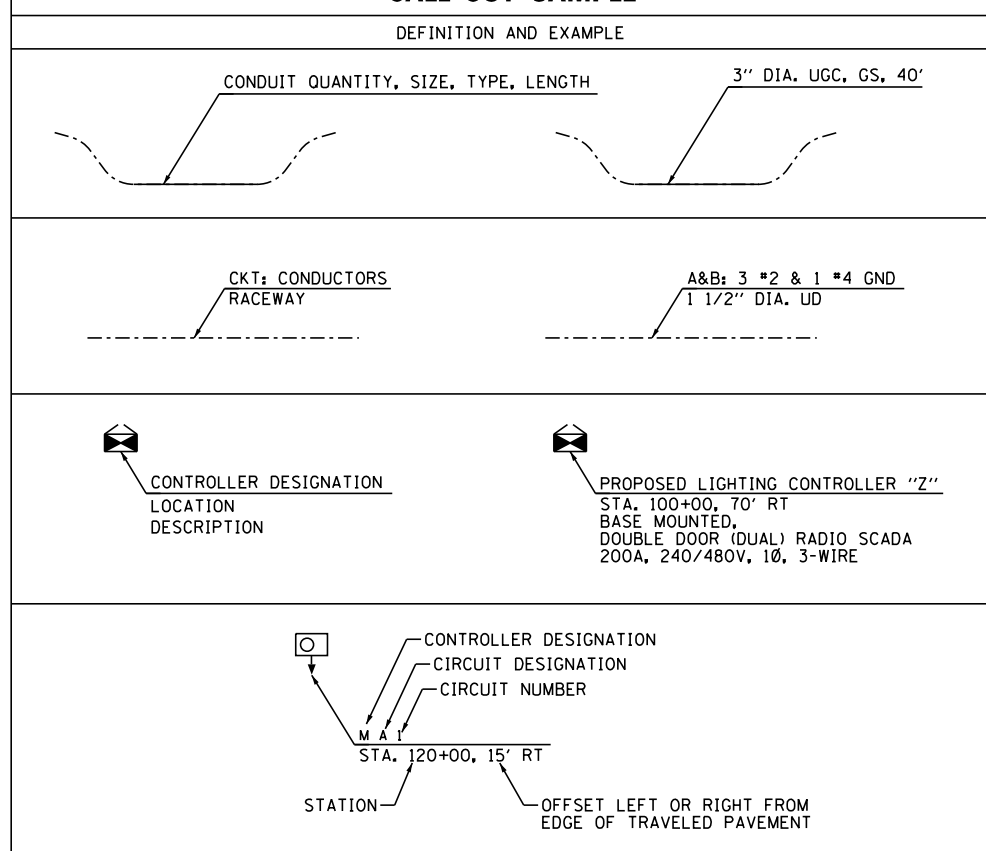
LIGHTING AND ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXISTING HIGH MAST LIGHTING TOWER UNIT 750W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES
	EXISTING HIGH MAST LIGHTING TOWER UNIT TO BE REMOVED, 120 FT, 750W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES
	EXISTING UNDERPASS LUMINAIRE
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	EXISTING BASE MOUNTED LIGHTING CONTROLLER, TO BE REMOVED
	EXISTING ELECTRIC UTILITY POLE
	EXISTING JUNCTION BOX
	EXISTING CONDUIT TO BE REMOVED
	EXISTING UNDERGROUND UNIT DUCT TO BE ABANDONED
	EXISTING SIGN LIGHTING
	EXISTING SIGN LIGHTING TO BE REMOVED
	EXISTING LIGHT POLE
	EXISTING LIGHT POLE, TO BE REMOVED
	EXISTING NAVIGATION LIGHT
	EXISTING NAVIGATION LIGHT, TO BE REMOVED
	PROPOSED TEMPORARY LIGHTING UNIT, SIZE AND TYPE AS NOTED
	PROPOSED LIGHTING UNIT MOUNTED ON BREAKAWAY TRANSFORMER BASE, 47.5 FT, M.H., 400W HPS TYPE M-C-III COBRAHEAD LUMINAIRE MOUNTED ON 15 FT DAVIT ARM U.N.O.
	PROPOSED STRUCTURE MOUNTED LIGHTING UNIT, 47.5 FT, M.H., 400W HPS TYPE M-C-III COBRAHEAD LUMINAIRE MOUNTED ON 6 FT DAVIT ARM U.N.O.
	PROPOSED NAVIGATION LIGHT, RED 180 DEGREE
	PROPOSED NAVIGATION LIGHT, GREEN 360 DEGREE
	PROPOSED UNDERPASS LUMINAIRE, PIER MOUNT, 100W HPS TYPE M-C-IV
	PROPOSED LIGHTING CONTROLLER, SIZE AND TYPE AS NOTED
	PROPOSED ELECTRIC UTILITY POLE
	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN EXPOSED OR EMBEDDED CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED
	ELECTRIC GROUND ROD

INDEX OF SHEETS

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CALL OUT SAMPLE



IDOT-D1 STANDARDS:

DRAWING NO.	STANDARD NO.	TITLE
35	BE-205A	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
36	BE-205B	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
37	BE-205C	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
38	BE-205D	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
39	BE-215	LIGHTING CONTROLLER, SINGLE DOOR
40	BE-220	ELECTRIC SERVICE INSTALLATION, AERIAL, REMOTE DISCONNECT
41	BE-305	LIGHT POLE FOUNDATION, METAL
42	BE-330	LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL, 15" (381 MM) BOLT CIRCLE
43	BE-410	DAVIT LIGHT POLE, 47'-6" (14.478 M) MOUNTING HEIGHT
44	BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
45	BE-702	MISC. ELECTRICAL DETAILS, SHEET A
46	BE-703	MISC. ELECTRICAL DETAILS, SHEET B
47	BE-800	TEMPORARY LIGHT POLE DETAILS
48	BE-801	TEMPORARY AERIAL CABLE INSTALLATION
49	BE-902	PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

GENERAL NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST VERSION), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AS NEEDED PER IDOT-D1 STANDARD DRAWING NO. BE-703 AT NO ADDITIONAL COST.
- CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE PAY ITEM REQUIRING THIS WORK.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CABLE
A/C	AERIAL CABLE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SS	STAINLESS STEEL
STA.	STATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFN	LIQUID TIGHT FLEXIBLE NON-METALLIC

5. THE CONTRACTOR SHALL CALL NEIL THAKKAR AT (708) 524-2145 TO TRANSFER THE MAINTENANCE PRIOR TO ANY WORK PERFORMED ON LIGHTING.

6. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER. ALL EXISTING LIGHT POLES SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS. SPECIFIC LIGHT POLES SHALL BE REMOVED AND REPLACED PER THE PLANS BY THE CONTRACTOR DURING SPECIFIC STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

7. THE SUGGESTED CONSTRUCTION STAGING FOR LIGHTING WORK IS AS FOLLOWS:

STAGE 1A:
 - INSTALL NEW LIGHTING CONTROLLER "V" AND ELECTRIC SERVICE.
 - REMOVE AND REPLACE SOUTHBOUND LIGHTING SOUTH OF THE CANAL.
 - REMOVE AND REPLACE NAVIGATION LIGHTING.
 - INSTALL TEMPORARY LIGHTS FOR NORTHBOUND IL-171 JUST NORTH OF THE I-55 INTERCHANGE.
 - CUTOVER LIGHTING CIRCUITS DURING DAY TO AVOID OUTAGES AT NIGHT IN CROSSOVER AREA AND TO THE EAST.

STAGE 1B:
 - SOUTHBOUND ROADWAY AND NAVIGATION LIGHTING SOUTH OF THE CANAL SHALL BE OPERATIONAL.
 - INSTALL TEMPORARY CONNECTION FOR SOUTHBOUND LIGHTING NEAR RAMP E GORE.
 - INTERCEPT EXISTING CIRCUIT FEED TO SOUTHBOUND LIGHTING AT BRIDGE NEAR STA. 48+00.
 - REMOVE AND REPLACE SOUTHBOUND LIGHTING CONCURRENT WITH BRIDGE WORK FOR S.N. 016-0483.
 - LOCATE EXISTING UNDERGROUND LIGHTING CABLES AT THE 47TH STREET INTERCHANGE.
 - INSTALL PROPOSED 47TH STREET INTERCHANGE LIGHTING.
 - CUTOVER LIGHTING CIRCUITS DURING DAY TO AVOID OUTAGES AT NIGHT.
 - REMOVE EXISTING LIGHTING AS PROPOSED LIGHTING BECOMES OPERATIONAL.

STAGE 1C:
 - REMOVE AND REPLACE SOUTHBOUND LIGHTING CONCURRENT WITH BRIDGE WORK FOR S.N. 016-2457.
 - REMOVE AND REPLACE SOUTHBOUND LIGHTING NEAR THE JOLIET ROAD INTERCHANGE.
 - INSTALL CONDUIT SYSTEMS AND UNDERPASS LIGHTING FOR THE IL-171 BRIDGES OVER 47TH STREET.

FILE NAME =	DESIGNED - GRR	REVISED -
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USER NAME = tblank	CHECKED - GHT	REVISED -
PLOT DATE = 8/7/2014	DATE - 6/23/2014	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND, ABBREVIATIONS,
GENERAL NOTES & INDEX OF DRAWINGS

SCALE: SHEET 1 OF 49 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-038B-R	COOK	821	200
CONTRACT NO. 60J16				
ILLINOIS FED. AID PROJECT				