

**CITY OF COLUMBUS LIGHTING SPECIFICATIONS**

THE CITY OF COLUMBUS DIVISION OF POWER HAS UNDERGROUND STREET LIGHTING AT THIS WORK LOCATION. ANY REQUIRED RELOCATION, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEMS AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL INSTALLATION SPECIFICATIONS" (MIS) AND FOLLOWING THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR REINSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REQUIRED BY SECTION 1001.18 OF THE CMS. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM, MIS-95. COPIES OF THIS STANDARD ARE AVAILABLE FROM THE DOP.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

TRENCH LOCATION SHALL DEFLECT AROUND OBSTACLES AS ILLUSTRATED IN THE PLANS. WHERE THE TRENCH IS OFFSET FROM THE CENTERLINE OF FOUNDATIONS, THE CONDUIT SHALL BE DIRECTED TOWARDS THE ELL AT THE FOUNDATION AT AN ANGLE OF APPROXIMATELY 45 DEGREES, TO FACILITATE CONNECTION TO THE CONDUIT WITH THE LEAST AMOUNT OF BENDS.

LIGHT POLE FOUNDATIONS AND TRENCH SHALL BE LOCATED APPROXIMATELY WHERE SHOWN IN THE PLANS WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD AFTER CONSIDERATION IS GIVEN TO EXACT UNDERGROUND AND OVERHEAD UTILITIES, PAVEMENTS, GRADES, ETC.

AS BUILT RECORD - THE CONTRACTOR SHALL MAINTAIN A SET OF PROJECT RECORD DOCUMENTS. THESE DOCUMENTS SHALL INCLUDE REVIEWED SHOP DRAWINGS, CHANGE ORDERS, EQUIPMENT OPERATING INSTRUCTIONS, FIELD TEST RECORDS, AND AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS SHALL BE MARKED LEGIBLY IN RED, THE ACTUAL LOCATION OF EQUIPMENT AND CONDUITS AS CONSTRUCTED. ALL EQUIPMENT AND UNDERGROUND CONDUITS INSTALLED SHALL HAVE LOCATIONS MARKED IN DISTANCES OFF A LANDMARK AT LEAST EVERY 25 FEET AND AS NECESSARY AT BENDS FOR LOCATION AT A LATER DATE.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE UNIT BID COST OF THESE ITEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS RELOCATED MAIL BOXES, SAW CUTTING, AND REMOVAL AND/OR RELOCATION OF SIGNS, RAILROAD ITEMS, SPRINKLERS, RELOCATION OF ROOF OR SUMP DRAINS AROUND LIGHT POLE FOUNDATIONS, HAND DIGGING AROUND UNDERGROUND UTILITIES OR OTHER MISCELLANEOUS ITEMS.

ALL ITEMS SHALL CONFORM TO THE CITY OF COLUMBUS DIVISION OF POWER, MATERIAL AND INSTALLATION SPECIFICATIONS (MIS) DRAWING AS WELL AS THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED NOVEMBER 1, 2017. THE APPLICABLE MIS REFERENCES AND DETAILS HAVE BEEN PROVIDED IN THE PLAN FOR EACH SPECIFIED ITEM.

**ODOT LIGHTING SPECIFICATIONS**

THE FOLLOWING ITEM SHALL BE INSTALLED IN ACCORDANCE WITH ODOT SPECIFICATIONS:

- ITEM 625E25402 - CONDUIT, 2", 725.05 (CONDUIT IN BRIDGE PARAPET)
- ITEM 625E29920 - STRUCTURE JUNCTION BOX (PER HL-20.14)
- ITEM 625E33000 - STRUCTURE GROUNDING SYSTEM (PER HL-50.21)

**LUMINAIRE, MISC.: LUMINAIRE, CONVENTIONAL, LED (MIS 800)**

LUMINAIRES SHALL BE HOLOPHANE ATB0P204480R23KNLP7SH, OR EQUAL AS APPROVED BY THE ENGINEER.

**ITEM 625 - LIGHT POLE ANCHOR BOLT, MISC.: ANCHOR BOLTS ON BRIDGE PILASTER**

WHEN A LIGHT POLE IS MOUNTED ON A PILASTER ON A BRIDGE PARAPET, THE REQUIRED ANCHOR BOLTS MAY DIFFER IN LENGTH AND/OR SHAPE FROM THOSE REQUIRED WHEN THE POLE IS MOUNTED ON A CAST-IN-PLACE DRILLED SHAFT FOUNDATION. THE COST DIFFERENTIAL FOR FURNISHING SUCH BOLTS IS INCLUDED HEREIN.

IN ADDITION, THERE IS NO FOUNDATION CONSTRUCTION ITEM IN WHICH TO INCLUDE THE SETTING OF THE ANCHOR BOLTS. THUS, THE SETTING OF THE ANCHOR BOLTS INTO THE PILASTER IS ALSO PART OF THIS WORK. THE COST OF PROVIDING CONDUIT FROM THE LIGHT POLE JUNCTION BOX TO THE LIGHT POLE BASE, AS SHOWN IN STANDARD DRAWING HL-20.14, SHALL ALSO BE CONSIDERED INCIDENTAL TO THIS ITEM. ALL CONDUIT ON THE BRIDGE SHALL COMPLY WITH CM&S 725.05. ALL LIGHT POLES AND JUNCTION BOXES ON THE BRIDGE SHALL BE PROPERLY GROUNDED PER HL-50.21.

THE POLES SHALL BE WIRED PER MIS 500, EXCEPT THAT ALL SPLICES SHALL BE MADE IN THE PROPOSED JUNCTION BOX ADJACENT TO EACH POLE, WHICH SHALL BE INSTALLED PER HL-20.14.

PAYMENT WILL BE MADE AT EACH SUCH POLE LOCATION AT THE UNIT PRICE BID FOR EACH C&MS ITEM 625, "LIGHT POLE ANCHOR BOLTS ON STRUCTURE" AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING THE ANCHOR BOLTS, AND CONDUIT FOR CONNECTING THE CONDUIT SYSTEMS, AS REQUIRED.

NON-PAYMENT SPECIFICATIONS	
MIS	ITEM DESCRIPTION
1	STREET LIGHT LOCKOUT/TAGOUT (LOTO)
2	GUIDELINES FOR INSPECTION & ACCEPTANCE OF STREET LIGHTING SYSTEMS
3	GUIDELINES FOR STREET LIGHTING "MATERIALS FOR APPROVAL" SUBMITTAL PACKAGES
4	INSPECTION CHECKLIST

FRA-70-20.29

LIGHTING GENERAL NOTES

DESIGN AGENCY



EGGEMAN ENGINEERING & CONSULTING  
6958 OLD CLIFTON RD  
SPRINGFIELD, OH 45502  
(937) 318-6426

DESIGNER

MJH

REVIEWER

KAE 04-23-22

PROJECT ID

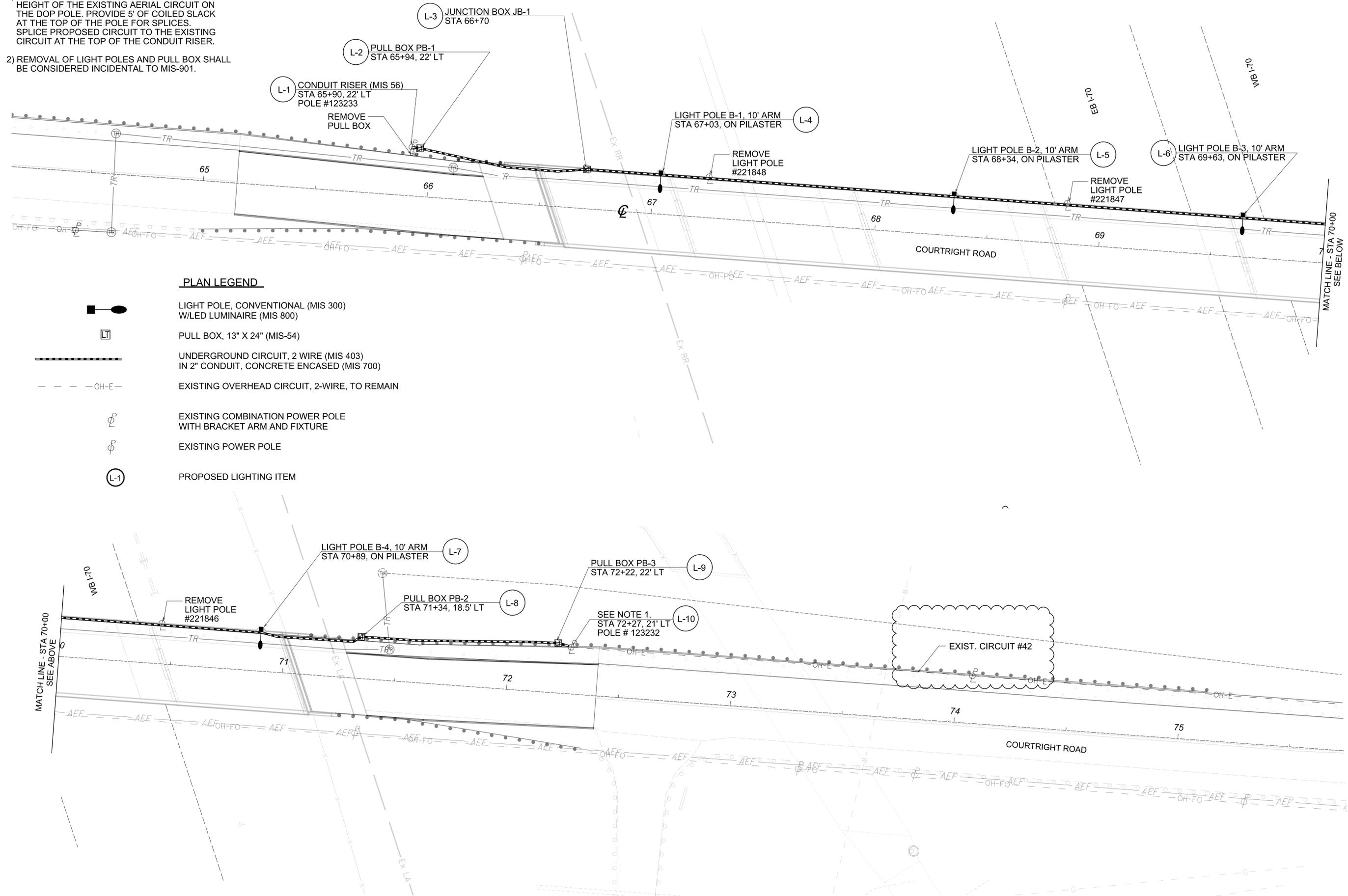
109659

SHEET TOTAL

P.63 90

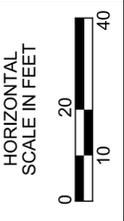
NOTES:

- 1) THE CIRCUIT CABLE SHALL BE RUN TO THE HEIGHT OF THE EXISTING AERIAL CIRCUIT ON THE DOP POLE. PROVIDE 5' OF COILED SLACK AT THE TOP OF THE POLE FOR SPLICES. SPLICE PROPOSED CIRCUIT TO THE EXISTING CIRCUIT AT THE TOP OF THE CONDUIT RISER.
- 2) REMOVAL OF LIGHT POLES AND PULL BOX SHALL BE CONSIDERED INCIDENTAL TO MIS-901.



**PLAN LEGEND**

-  LIGHT POLE, CONVENTIONAL (MIS 300)  
W/LED LUMINAIRE (MIS 800)
-  PULL BOX, 13" X 24" (MIS-54)
-  UNDERGROUND CIRCUIT, 2 WIRE (MIS 403)  
IN 2" CONDUIT, CONCRETE ENCASED (MIS 700)
-  -OH-E- EXISTING OVERHEAD CIRCUIT, 2-WIRE, TO REMAIN
-  EXISTING COMBINATION POWER POLE  
WITH BRACKET ARM AND FIXTURE
-  EXISTING POWER POLE
-  (L-1) PROPOSED LIGHTING ITEM



**LIGHTING PLAN  
BEGIN PROJECT TO END PROJECT**

FRA-70-20.29

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DESIGNER

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REVIEWER

KAE 04-23-22

PROJECT ID

109659

SHEET TOTAL

P.65 | 90

3633-E