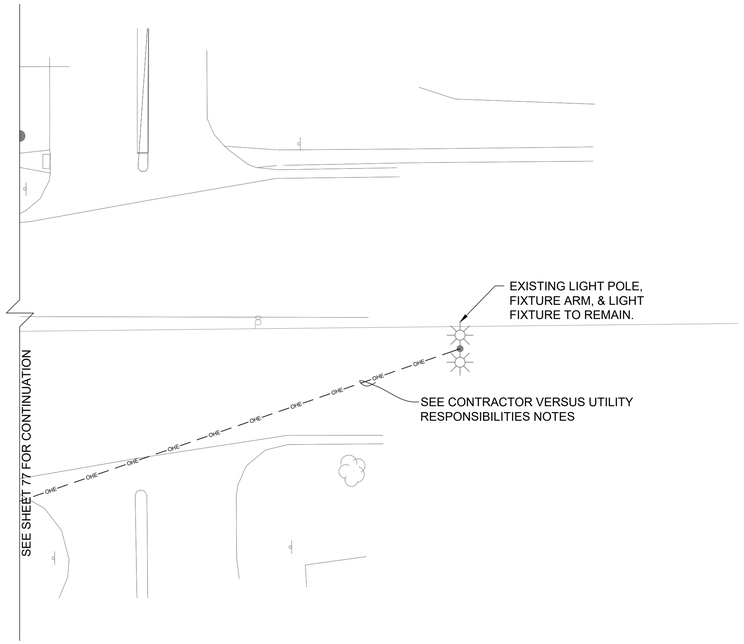


ELECTRICAL SYMBOLS

- NEW UNDERGROUND LIGHTING PVC CONDUIT
- NEW EXPOSED LIGHTING RMC CONDUIT
- NEW STREET LIGHT POLE
- EXISTING DOUBLE ARM STREET LIGHT
- EXISTING SINGLE ARM STREET LIGHT
- OHE — PROPOSED OVERHEAD ELECTRICAL
- EXISTING LIGHT POLE TO BE REMOVED

**ELECTRICAL STREET LIGHTING SPECIFICATIONS**:

1. PERFORM ALL WORK IN ACCORDANCE WITH NFPA 70-2020 AND NECA 1 AND ALL STATE AND LOCAL CODES AND REGULATIONS.
2. SUBMITTALS: CONTRACTOR TO SUBMIT TO ENGINEER, FOR APPROVAL, ELECTRONIC PDF COPIES OF SHOP DRAWINGS FOR MAJOR ITEMS OF EQUIPMENT SUCH AS IN-GRADE PULL BOXES.
3. MATERIALS:
   - A. CONDUIT: ALL CONDUIT SHALL BE LISTED BY NRTL.
     1) UNDERGROUND: PVC-40, NEMA TC 2, UL 651 LISTED FOR NORMAL APPLICATIONS. UNDER ROADWAYS USE HDPE, TC 7, UL 651A LISTED, SDR 13.5, BLACK WITH RED STRIPE. PVC AND HDPE SHALL BE LISTED FOR DIRECT SUNLIGHT.
     2) ABOVE GRADE: RMC, UL 6 LISTED, NEMA C80.1.
   - B. IN-GRADE PULL BOX: POLYMER CONCRETE QUAZITE PG SERIES OR EQUAL. NOMINAL DIMENSIONS 11"W x 18"L x 18"H. BOX AND LID TESTED TO SCTE TIER 22. LID LEGEND TO BE LABELED "LIGHTING", "ELECTRICAL", ETC TO MATCH SYSTEM WITHIN.
4. EXECUTION:
   - A. PERFORM ALL WORK IN ACCORDANCE WITH THE APPROPRIATE NECA STANDARD. INSTALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE APPROPRIATE NECA & NEMA STANDARD. TEST ALL COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPROPRIATE NEMA & NECA STANDARD.
     1) NECA 101 AND NECA 111 FOR INSTALLATION OF RACEWAY.
   - B. CONDUIT:
     1) MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 30" AND A MINIMUM DEPTH OF 42" UNDER THE ROADWAY SURFACES AND COMPLY WITH EVERGY ELECTRICAL SERVICE STANDARDS.
     2) EVERGY MUST BE GIVEN THE OPPORTUNITY TO INSPECT TRENCHED CONDUIT PRIOR TO BACKFILL.
     3) PROVIDE PULL ROPE IN EACH CONDUIT.
     4) USE 36" RADIUS BENDS TO TURN UP INTO IN-GRADE HANDHOLES AND AT SERVICE TRANSFORMER.
     5) CONDUIT CLAMPS: INSTALL CONDUIT CLAMPS WITH A COMPATIBLE CLAMP BACK. CLAMPS SHALL BE HEAVY DUTY STEEL TO SECURE THE CONDUIT TO STRUCTURE. CONDUIT CLAMPS ARE TO BE SPACED AT 6' INTERVALS.
     6) SUPPORT ALL RACEWAY IN ACCORDANCE WITH NEC. IN ADDITION, STRENGTH OF SUPPORTS SHALL HAVE A SAFETY FACTOR OF 150% OF EXPECTED LOAD.
   - C. PULL WIRE: INSTALL NO. 12 AWG COPPER PULL WIRE IN ALL EMPTY CONDUITS. BOTH ENDS OF WIRE TO BE LABELED OR TAGGED READING "PULL WIRE" AND NUMBER TO REFER TO THE SAME PULL WIRE.
   - D. IN-GRADE PULL BOX INSTALLATIONS:
     1) PULL BOXES SHALL BE INSTALLED LEVEL AND PLUMB WITH FINISHED GRADE. BOXES SHALL BE SET ON A 6" DEEP LEVEL BED OF CRUSHED STONE OR PEA GRAVEL EXTENDING 4" BEYOND THE WALLS OF THE BOX.
     2) INSTALLATIONS IN GROUND LEVEL PULL BOXES SHALL BE DONE IN A NEAT, PROFESSIONAL, AND WORKMANLIKE MANNER, USING INSULATED, BOOTED, SECONDARY SPLICES CREATED ESPECIALLY FOR THE INTENDED APPLICATION. DO NOT USE HAND MADE SQUEEZE-ONS, TAPE WRAPPED BALL CONNECTIONS, OR CONNECTORS NOT SUITABLE FOR USE WITH SPECIFIED CONDUCTORS.

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WICHITA, KANSAS

CITY OF WICHITA

REVISIONS:

| MARK | DATE | DESCRIPTION |
|---|---|---|

PROJ NO: R210326.00
SCALE:
DATE: 7/13/2022
DESIGNED BY: AJM
DRAWN BY: AJM
CHECKED BY: JTS

SHEET TITLE:

STREET LIGHTING PLAN

SHEET NO.
79
SHEET 79 OF 128

ANDREWJMATTHEZ
7/13/2022 3:19 PM
K:\Projects\R210326.01 - Wichita Amidon Bridge over Arkansas River - Study\7 Design\2 Drawings\Electrical\R-210326.01-ELEC-FULL SIZE.dwg, sh

IF THIS DRAWING IS LESS THAN 22" X 36" IT IS A REDUCED SIZE DRAWING