















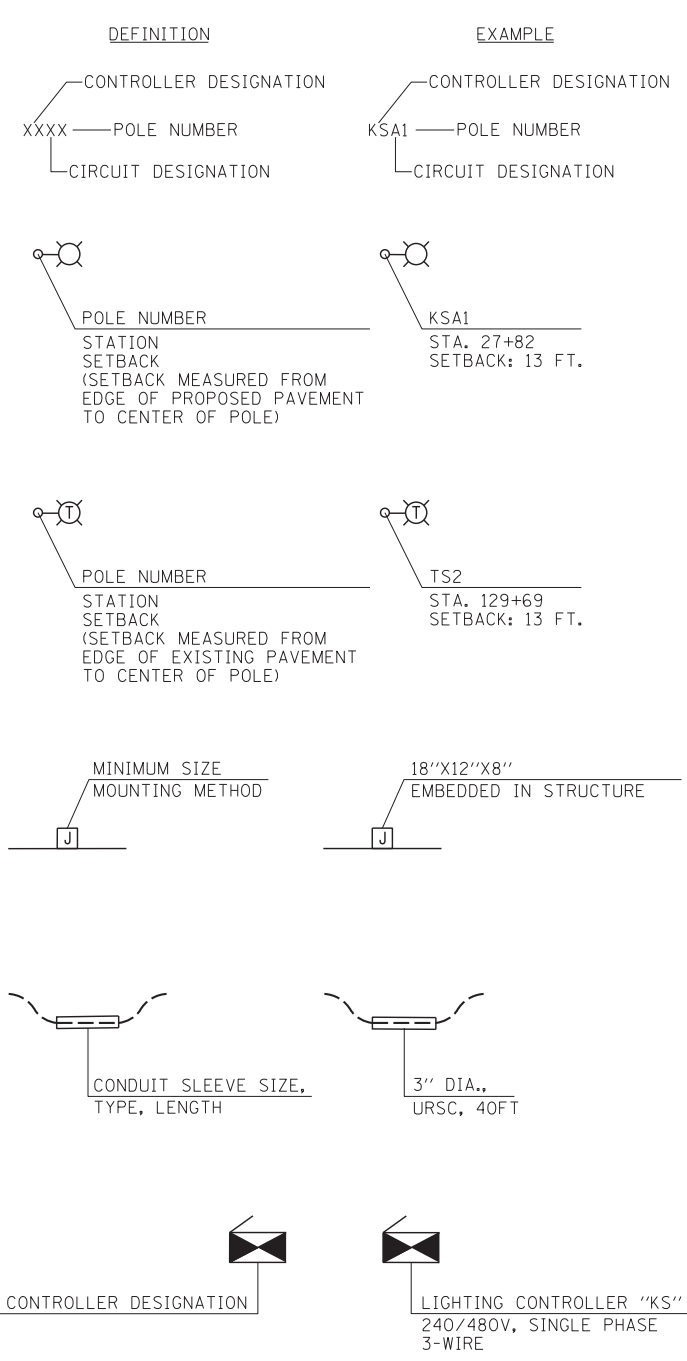


**ELECTRICAL SYMBOLS**

-  LIGHTING UNIT:  
47.5 FT. M.H., 12 FT. DAVIT ARM,  
310W 240V (PHASE TO NEUTRAL) HPS M-C-III  
LUMINAIRE WITH 6 AMP FUSE, 9" BREAKAWAY  
TRANSFORMER BASE MOUNTED ON CONCRETE  
FOUNDATION
-  COMBINATION TRAFFIC SIGNAL AND  
LIGHTING UNIT: LUMINAIRE ARM 15 FT.  
AT 45 FT. MOUNTING HEIGHT, 310 WATT  
LUMINAIRE, 240V (PHASE TO NEUTRAL),  
HPS M-C-III, WITH 6 AMP FUSE
-  TEMPORARY LIGHTING UNIT:  
60 FT. WOOD POLE, 47.5 FT. M.H.,  
15 FT. M.A. AND 400W, 240V (PHASE  
TO PHASE) HPS MC-III LUMINAIRE
-  UNIT DUCT  
3 #4 & 1 #6 GND XLP-TYPE USE IN 1 1/4" DIA.  
SCHEDULE 40 POLYETHYLENE DUCT,  
UNLESS NOTED OTHERWISE
-  AERIAL CABLE  
3-1/C NO. 2 WITH MESSENGER
-  LIGHTING CONTROLLER CABINET
-  EXISTING UTILITY POLE
-  GROUND ROD
-  UNIT DUCT INSTALLED IN CONDUIT  
SLEEVE UNDER PAVEMENT
-  ELECTRIC UTILITY SERVICE
-  EXISTING LIGHTING UNIT  
TO BE REMOVED AND SALVAGED
-  EXISTING LIGHTING CONTROLLER  
CABINET TO BE REMOVED AND SALVAGED
-  EXISTING JUNCTION BOX  
ATTACHED TO STRUCTURE  
TO BE REMOVED
-  EXISTING HANDHOLE  
TO BE REMOVED
-  EXISTING CONDUIT  
ATTACHED TO STRUCTURE  
TO BE REMOVED
-  TEMPORARY WOOD POLE  
40 FT.

**CALL-OUT SAMPLES**



**ABBREVIATIONS**

- A AMPERE
- AC ALTERNATING CURRENT
- A/C AERIAL CABLE
- AFG ABOVE FINISHED GRADE
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- COMED COMMONWEALTH EDISON
- DIA DIAMETER
- DP DISTRIBUTION PANEL
- E EXISTING UNIT TO REMAIN
- EOP EDGE OF PAVEMENT
- EPR ETHYLENE PROPYLENE RUBBER
- FT FEET OR FOOT
- FU FUSE
- GND GROUND
- HID HIGH INTENSITY DISCHARGE
- HPS HIGH PRESSURE SODIUM
- IDOT ILLINOIS DEPARTMENT OF TRANSPORTATION
- IN INCH/INCHES
- JB JUNCTION BOX
- KV KILOVOLT
- M METER
- MA MAST ARM
- MH MOUNTING HEIGHT
- MIN MINIMUM
- NO, # NUMBER
- PB PUSH BUTTON
- P PROPOSED
- PH PHASE
- PNL PANEL
- PVC POLYVINYL CHLORIDE
- R EXISTING UNIT TO BE REMOVED  
(OWNER SALVAGED UNLESS NOTED OTHERWISE)
- RECP RECEPTACLE
- RGSC RIGID GALVANIZED STEEL CONDUIT
- SS STAINLESS STEEL
- STA STATION
- TC TRAY CABLE
- TYP TYPICAL
- UD UNIT DUCT
- UNO UNLESS NOTED OTHERWISE
- URSC UNDERGROUND RIGID STEEL CONDUIT
- V VOLT
- VA VOLT-AMPERE
- W WATT
- WP WEATHERPROOF
- XFMR TRANSFORMER

**GENERAL NOTES**

1. THE EXISTING ROADWAY LIGHTING SYSTEM, WHICH INCLUDES TEMPORARY LIGHTING, SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED AND ACCEPTED BY THE ENGINEER.
2. THE LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION AND ORDERING MATERIALS.
4. THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
5. CONDUITS, UNIT DUCTS, HANDHOLES, JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMATICALLY. THE CONTRACTOR SHALL MARK THE FINAL LOCATION OF ALL PROPOSED EQUIPMENT IN THE FIELD FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
6. CONDUITS, UNIT DUCTS, HANDHOLES, JUNCTION BOXES, LIGHT STANDARD FOUNDATIONS AND APPURTENANCES SHALL BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH DRAINS AND ALL OTHER UTILITIES, BOTH UNDERGROUND AND ABOVE GROUND.
7. THE CABLE INSTALLATION FROM THE LIGHTING CONTROL CABINET TO THE LIGHT STANDARDS SHALL BE CONTINUOUS WITHOUT UNDERGROUND SPLICES. SPLICING OF CABLES IS PERMITTED ONLY IN THE HANDHOLES OF THE LIGHT POLES AND IN ABOVE GROUND JUNCTION BOXES.
8. LOCATIONS OF THE CONDUIT SLEEVE CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED WITH THE ENGINEER'S APPROVAL TO MEET THE MINIMUM CLEARANCE REQUIREMENTS AND TO AVOID CONFLICTS.
9. CONDUIT SLEEVES ROUTED UNDER PAVEMENT SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE SHOULDER, CURB, AND/OR GUARD RAIL AND SHALL BE INSTALLED A MINIMUM OF 45 INCHES BELOW FINISHED GRADE TO AVOID CONFLICTS WITH THE UNDER DRAINS. THE SLEEVES SHALL BE INSTALLED DEEPER IF REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES AND DRAINAGE STRUCTURES AT NO ADDITIONAL COST TO IDOT.
10. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRICAL SERVICE WORK.
11. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX, PULL BOX, LIGHT POLE AND CONTROLLER CABINET THROUGH WHICH THE CONDUCTORS ARE ROUTED. JUNCTION BOXES AND PULL BOXES SHALL BE EQUIPPED WITH GROUND LUGS FOR TERMINATION OF THE GROUND WIRE. THE GROUND LUG INSTALLATION SHALL NOT DEGRADE THE JUNCTION BOX RATING.
12. PROPOSED LIGHT POLES SHALL BE INSTALLED WITH A BREAKAWAY DEVICE.
13. THE EXISTING LIGHT POLES, CONTROLLER AND OTHER EQUIPMENT SHALL BE SALVAGED TO IDOT DISTRICT 1.

FILE NAME =	USER NAME = *USER*	DESIGNED - WDS	REVISED - 4/25/2014 WDS	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES U.S. RTE 20 (NORTH JUNCTION)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILES*		DRAWN - HA	REVISED -			345	106-S-N-1	KANE	167	89	
	PLOT SCALE = *SCALE*	CHECKED - WDS	REVISED -			CONTRACT NO. 60T10					
*MODELNAME*	PLOT DATE = *DATE*	DATE - 3/28/2014	REVISED -			SCALE: N.T.S.	SHEET 1	OF 1	SHEETS	STA.	TO STA.