















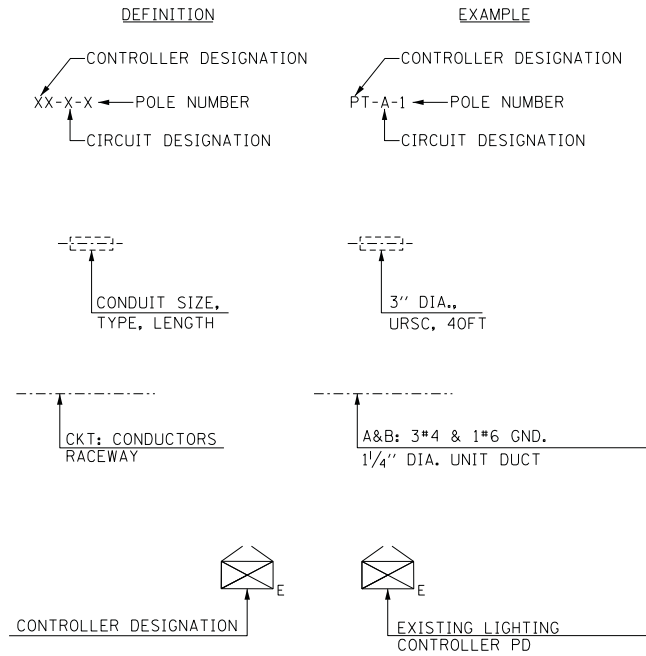
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	130N-3 (11)	DUPAGE	141	116
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

60R46

ELECTRICAL SYMBOLS

-  LIGHTING UNIT:
47.5 FT. M.H., 15 FT. M.A.,
310W HPS M-C-III LUMINAIRE, UNO, (240V)
9" BREAKAWAY TRANSFORMER BASE
-  COMBINATION TRAFFIC SIGNAL AND
LUMINAIRE LIGHTING UNIT:
45 FT. M.H., 15 FT. M.A.,
400W HPS M-C-III LUMINAIRE, (240V)
-  COMBINATION TRAFFIC SIGNAL AND
LUMINAIRE LIGHTING UNIT:
45 FT. M.H., 15 FT. M.A.,
310W HPS M-C-III LUMINAIRE, (240V)
-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING TEMPORARY LIGHTING UNIT
TO BE REMOVED
-  UNIT DUCT
3 #4 XLP & 1 #6 XLP GND IN 1/4" DIA.
SCHEDULE 40 POLYETHYLENE DUCT
-  UNIT DUCT INSTALLED IN UNDERGROUND
RIGID STEEL CONDUIT
-  EXISTING CABLE IN CONDUIT TO REMAIN
-  EXISTING LIGHTING CONTROLLER
TO REMAIN
-  EXISTING UTILITY POLE
-  GROUND ROD
-  EXISTING UTILITY SERVICE
CONNECTION POLE MOUNTED
-  AERIAL CABLE TO BE REMOVED
-  EXISTING JUNCTION BOX TO REMAIN

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 LIGHTING UNIT TO REMAIN
- EOP EDGE OF PAVEMENT
- 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
- MC MULTI-CONDUCTOR CABLE (TYPE TC)
- MH MOUNTING HEIGHT
- MIN MINIMUM
- NO, # NUMBER
- PB PUSH BUTTON
- P POLE
- PH PHASE
- PNL PANEL
- PVC POLYVINYL CHLORIDE
- R EXISTING LIGHTING UNIT TO BE REMOVED
(OWNER SALVAGED UNLESS NOTED OTHERWISE)
- RECP RECEPTACLE
- RGSC RIGID GALVANIZED STEEL CONDUIT
- SS STAINLESS STEEL
- STA STATION
- 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
- XLP CROSS LINKED POLYETHYLENE

GENERAL NOTES

1. PRIOR TO THE INSTALLATION OF THE NEW UNIT DUCTS, CONDUITS, HANDHOLES, JUNCTION BOXES, LIGHT STANDARDS FOUNDATIONS AND APPURTENANCES, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING LIGHTING CONDUITS, CABLES AND UNDERGROUND UTILITIES.
2. ALL NEW UNIT DUCTS, CONDUITS, HANDHOLES, JUNCTION BOXES, LIGHT STANDARDS FOUNDATIONS AND APPURTENANCES, ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION OF THE PROPOSED EQUIPMENT SHALL BE STAKED IN THE FIELD FOR THE ENGINEERS APPROVAL PRIOR TO BEGINNING ANY EXCAVATION WORK.
3. UNIT DUCTS, CONDUITS, HANDHOLES, JUNCTION BOXES, LIGHT STANDARDS FOUNDATIONS AND APPURTENANCES SHALL BE INSTALLED TO AVOID CONFLICT WITH DRAINS AND ALL OTHER UNDERGROUND AND ABOVE GROUND UTILITIES.
4. ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
5. THE CABLE INSTALLATION FROM THE LIGHTING CONTROL CABINET TO THE LIGHT STANDARDS AND FROM LIGHT STANDARD TO LIGHT STANDARD SHALL BE CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF CABLE IS ONLY PERMITTED IN THE BASE OF THE LIGHT STANDARDS AND IN ABOVE GROUND JUNCTION BOXES.
6. ALL PITS USED FOR THE BORING AND PULLING OF CONDUITS UNDER PAVEMENT SHALL BE LOCATED FIVE (5) FEET (MINIMUM) CLEAR FROM THE EDGE OF SHOULDER. LOCATIONS OF THE CONDUIT CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO MEET MINIMUM CLEARANCE REQUIREMENTS AND TO AVOID CONFLICTS WITH UTILITIES. THE PITS SHALL BE ADEQUATELY GUARDED TO PROTECT THE MOTORIST AND PEDESTRIANS. THE CONTRACTOR SHALL SUBMIT PLANS FOR EACH PIT TO THE ENGINEER PRIOR TO EXCAVATION. THE PLANS SHALL SHOW THE PIT SIZE, LOCATION, PROTECTION TO BE INSTALLED AND MAINTENANCE OF TRAFFIC AT THE PIT SITE.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE LUMINAIRE SUPPLIER RECOMMENDATIONS. THE CONTRACTOR SHALL COORDINATE THE LAMP TYPE, VOLTAGE AND WATTAGE WITH THE LUMINAIRE SUPPLIER.
8. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT MAST ARMS AND LUMINAIRES. THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE COMPLETELY INSTALLED, CONNECTED, ENERGIZED, TESTED AND APPROVED BY THE ENGINEER.
9. LIGHTING RACEWAYS SHALL BE INSTALLED A MINIMUM OF 30" BELOW FINAL GRADE.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.P. ROUTE 307 (ILLINOIS ROUTE 64)
NAME	DATE	
		ELECTRICAL SYMBOLS, CALL-OUT SAMPLES, ABBREVIATIONS, AND GENERAL NOTES

SCALE: NONE DRAWN BY: AFC
 DATE: FEBRUARY 1, 2013 CHECKED BY: WDS