

GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL LIGHTING EQUIPMENT REMOVED AS PART OF THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE VILLAGE OF ORLAND PARK AND SHALL BE DELIVERED TO THE VILLAGE OF ORLAND PARK MAINTENANCE FACILITY. THE CONTRACTOR SHALL TURN OVER TO THE VILLAGE OF ORLAND PARK ALL REMOVED POLES, MAST ARMS, FIXTURES, AND CONTROLLERS.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK AND MATERIALS WITH SPECIAL ATTENTION TO ALL OTHER CONSTRUCTION CONTRACTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) 72 HOURS BEFORE EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE.
4. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK AND COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.
7. WHEN ELECTRIC LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
8. QUANTITIES OF RIGID GALVANIZED STEEL CONDUIT AND PVC CONDUIT WHERE INDICATED ON THE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE CONFORMANCE WITH SPECIFIED REQUIREMENTS.
9. GROUNDING CONNECTIONS AT ALL EQUIPMENT FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, UNLESS NOTED OTHERWISE, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
10. NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION OF THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
11. THE PROPOSED LIGHTING CONTROL CABINETS SHALL BE INSTALLED WITHIN THE RIGHT OF WAY WITH THE EXACT LOCATION TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
12. THE CONTRACTOR SHALL PREPARE A PRELIMINARY SCHEDULE WHEN THE CONTRACT COMMENCES WHICH ESTABLISHES THE DATE WHEN THE ELECTRICAL SERVICES WILL BE REQUIRED. THIS SCHEDULE SHALL BE FORWARDED IN WRITING TO COMMONWEALTH EDISON COMPANY (ComEd). SUBSEQUENT UPDATING OF THE SCHEDULE SHALL BE FORWARDED TO COMED AS CHANGES MAY OCCUR IN THE DATE OF SERVICE REQUIREMENTS. TEN (10) DAYS BEFORE THE ELECTRICAL SERVICES ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY COMED BY PHONE AND CONFIRM THE REQUEST IN WRITING. COMED SERVICE CONTRACT AND AGREEMENT SHALL BE FORWARDED TO THE VILLAGE OF ORLAND PARK FOR REVIEW AND SIGNATURE.
13. ALL PITS USED FOR ACCESSING CONDUITS UNDER ROADWAYS SHALL BE LOCATED 5'-0" (MINIMUM) CLEAR FROM THE EDGE OF SHOULDER. LOCATIONS OF THE CONDUIT CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO MEET THE MINIMUM CLEARANCE REQUIRED. THE CONTRACTOR SHALL SUBMIT PLANS FOR THE LOCATION AND SIZE OF EACH PIT AND MAINTENANCE AND PROTECTION OF TRAFFIC AT THE SITE OF EACH PIT FOR THE APPROVAL OF THE ENGINEER BEFORE THE EXCAVATION OF ANY PIT MAY BEGIN.
14. EXISTING LIGHTING CONTROLLERS ARE OWNED AND MAINTAINED BY THE VILLAGE OF ORLAND PARK. PROPOSED LIGHTING CONTROLLERS C101, C103, AND C105 WILL BE OWNED AND MAINTAINED BY THE VILLAGE OF ORLAND PARK.
15. UNDERGROUND CONDUIT SHALL EXTEND (2') BEYOND THE SHOULDER, CURB, BARRIER WALL AND/OR GUARDRAIL, AS APPLICABLE.
16. THE INSTALLATION OF COMBINATION TRAFFIC SIGNAL AND STREET LIGHT POLES IS A COORDINATED EFFORT OF THE TRAFFIC SIGNAL CONTRACTOR AND ELECTRICAL CONTRACTOR. THE COMBINATION LIGHTING CONTROLLER AND STANDARD COMBINATION LIGHTING DISCONNECT DETAILS ARE INCLUDED IN THE TRAFFIC SIGNAL DRAWINGS. THE TRAFFIC SIGNAL CONTRACTOR WILL PROVIDE AND INSTALL THE COMBINATION LIGHTING CONTROLLER, THE COMBINATION POLE, THE LUMINAIRE MAST ARM, AND THE COMBINATION SERVICE DISCONNECT. THE ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL THE COMBINATION POLE LUMINAIRE, ALL WIRING INSIDE THE COMBINATION POLE ASSOCIATED WITH THE LUMINAIRE, LIGHTING CONDUCTORS BETWEEN ALL COMBINATION POLES AND THE COMBINATION LIGHTING CONTROLLER, AND THE LIGHTING POWER CONDUCTORS BETWEEN THE COMBINATION LIGHTING CONTROLLER AND THE COMBINATION SERVICE DISCONNECT. THE TRAFFIC SIGNAL CONTRACTOR AND THE ELECTRICAL CONTRACTOR MUST COORDINATE THE INSTALLATION OF TRAFFIC SIGNAL AND LIGHTING CONDUITS IN THE BASE OF THE COMBINATION SERVICE DISCONNECT. THE BASE OF THE TRAFFIC SIGNAL CONTROL CABINET AND COMBINATION LIGHTING CONTROLLER, THE BASES OF ALL COMBINATION POLES, AND THE INSTALLATION OF CONDUIT AND WIRING BETWEEN THE COMBINATION POLE AND THE TRAFFIC SIGNAL CONTROLLER CABINET AND THE COMBINATION LIGHTING CONTROLLER. THE ELECTRICAL CONTRACTOR'S WORK ASSOCIATED WITH THE COMBINATION POLES IS SHOWN ON THE ELECTRICAL SHEETS.
17. COMBINATION LIGHTING WILL BE OWNED AND MAINTAINED BY IDOT, THEREFORE THE COMBINATION POLE UNIT IDENTIFICATION SHALL BE BLACK LETTERS AND NUMERALS ON A SILVER-WHITE REFLECTIVE BACKGROUND. ALL OTHER LIGHTING UNITS AND SYSTEMS ARE NOT MAINTAINED BY IDOT, AND SHALL HAVE AN ALTERNATE COLOR SCHEME IDENTIFICATION OF BLACK ON YELLOW.
18. THE TRAFFIC SIGNAL SHEETS DO NOT SHOW THE TRAFFIC SIGNAL MAST ARM POLES BEING INSTALLED IN ANY PARTICULAR STAGE OF CONSTRUCTION. THE TIMING OF THE INSTALLATION IS LEFT UP TO THE TRAFFIC SIGNAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL INSURE THAT THE COMBINATION TRAFFIC SIGNAL/STREET LIGHTING MAST ARM POLES ARE INSTALLED IN THE STAGE SHOWN ON THE ELECTRICAL SHEETS.
19. THE COORDINATION OF THE SIDE STREET WORK WITH LoGRANGE ROAD WORK IS LEFT UP TO THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE OPERATING STATUS OF LoGRANGE ROAD STREET LIGHTS REGARDLESS OF THE SIDE STREET STAGING. THIS MEANS THE CONTRACTOR MAY HAVE TO INSTALL TEMPORARY OVERHEAD WIRING FOR LoGRANGE ROAD STREET LIGHTS TO BYPASS STREET LIGHTS NOT YET INSTALLED. NOT ALL POSSIBILITIES FOR TEMPORARY OVERHEAD WIRING NEEDS ARE SHOWN ON THE PLANS, SINCE THIS DEPENDS UPON COORDINATION AS DETERMINED BY THE CONTRACTOR.
20. ALL LIGHT POLE SETBACKS SHOWN ARE MEASURED FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE, UNLESS STATED OTHERWISE. IF THERE IS NO CURB, THE SETBACK WILL BE MEASURED FROM THE EDGE OF TRAVELLED PAVEMENT.

GENERAL NOTES (CONTINUED):

21. FURNISH AND INSTALL A COMBINATION POLE LIGHTING CONTROLLER TO OPERATE THE LIGHT FIXTURES ON THE PROPOSED LIGHTING/TRAFFIC SIGNALS COMBINATION POLES AS SHOWN ON THESE PLANS. THE COMBINATION LIGHTING CONTROLLER (CLC) SHALL BE ATTACHED TO THE SIDE OF THE TRAFFIC SIGNAL CONTROLLER CABINET AS SHOWN ON THE ATTACHED DETAILS. COMBINATION LIGHTING CONTROLLERS ARE POWERED FROM THE PROPOSED LIGHTING/TRAFFIC SIGNALS COMBINATION SERVICE DISCONNECT CABINET, AND PAID FOR UNDER PAY ITEM NO. X8250090 "COMBINATION POLE LIGHTING CONTROLLER".
22. FURNISH AND INSTALL A 1" UNIT DUCT WITH 3-1/4" #8, 1/4" #10 G. IN A 2" RGC CONDUIT FROM EACH PROPOSED COMBINATION LIGHTING/TRAFFIC SIGNALS SERVICE DISCONNECT CABINET TO EACH PROPOSED COMBINATION LIGHTING CONTROLLER LOCATION. INSTALL THE UNIT DUCT IN A SEPARATE CONDUIT FOR THE ENTIRE RUN. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMED POWER SOURCE FEEDING COMBINATION LIGHTING CONTROLLERS AND LOCATION OF EACH COMBINATION SERVICE DISCONNECT.
23. PROPOSED LIGHT POLE SET BACKS ARE MEASURED FROM THE FACE OF CURB TO THE CENTER OF THE LIGHT POLE. MINIMUM SET BACK SHALL BE 3 FEET. OFFSETS FOR TEMPORARY LIGHTING WOOD POLES ARE MEASURED FROM THE ROADWAY CENTERLINE TO THE CENTER OF THE WOOD POLE.

SUGGESTED LIGHTING PHASING NOTES:

PRE-STAGE (PRIOR TO THE START OF STAGE 1 CONSTRUCTION)

- A. FURNISH AND INSTALL TEMPORARY LIGHTING CONTROLLERS "T101", "T102", AND "T103" AS SHOWN ON DRAWINGS E-11 THROUGH E-13.
 - B. COORDINATE WITH COMED TO GET POWER TO LIGHTING CONTROLLERS "T101", "T102", AND "T103". FURNISH AND INSTALL ALL ITEMS NECESSARY AS COORDINATED WITH COMED TO GET POWER TO LIGHTING CONTROLLERS "T101", "T102", AND "T103".
 - C. FURNISH, INSTALL, AND ENERGIZE ALL TEMPORARY LIGHTING UNITS AS INDICATED ON DRAWINGS E-10 THROUGH E-16 PRIOR TO THE REMOVAL OF EXISTING LIGHTING UNITS.
 - D. REMOVE EXISTING LIGHTING UNITS AND FOUNDATIONS ON THE WEST SIDE OF US-45 (LoGRANGE ROAD) AND ALONG ALL SIDE ROADS IMPACTED BY THIS PROJECT AS INDICATED ON DRAWINGS E-10 THROUGH E-16 IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 - E. TRANSPORT ALL REMOVED LIGHTING UNITS TO THE OWNER'S ELECTRICAL MAINTENANCE FACILITY FOR PROCESSING AS DETERMINED BY THE ENGINEER, UNLESS NOTED OTHERWISE.
- STAGE 1**
- A. REMOVE EXISTING LIGHTING UNITS AND FOUNDATIONS ON THE EAST SIDE OF US-45 (LoGRANGE ROAD) AS INDICATED ON DRAWINGS E-10 THROUGH E-13 IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 - B. TRANSPORT ALL REMOVED LIGHTING UNITS TO THE OWNER'S ELECTRICAL MAINTENANCE FACILITY FOR PROCESSING AS DETERMINED BY THE ENGINEER, UNLESS NOTED OTHERWISE.
 - C. COORDINATE WITH COMED FOR THE REMOVAL OF POWER TO LIGHTING CONTROLLERS FOR LIGHT SYSTEMS 3 AND 4 LOCATED ON DRAWINGS E-10 AND E-11. REMOVE THE LIGHTING CONTROLLERS AND FOUNDATIONS. TRANSPORT THE REMOVED LIGHTING CONTROLLERS TO THE OWNER'S ELECTRICAL MAINTENANCE FACILITY FOR PROCESSING PER THE SPECIAL PROVISIONS.
 - D. CONSTRUCT NEW LIGHTING UNIT FOUNDATIONS FOR PROPOSED AND EXISTING TO BE RELOCATED LIGHTING UNITS AS SHOWN ON DRAWING E-20 BETWEEN 144th PLACE AND 143rd STREET ALONG NORTHBOUND (EAST) SIDE OF US-45 (LoGRANGE ROAD). INSTALL LIGHTING UNITS ON PROPOSED FOUNDATIONS. CONNECT LUMINAIRES TO EXISTING LIGHTING CONTROLLER "RWP-1". CONNECT THE RECEPTACLES ON LIGHTING UNITS TO EXISTING RECEPTACLE CONTROLLER "H-2".
 - E. FURNISH AND INSTALL PROPOSED LIGHTING CONTROLLERS "C101", "C103", AND "C105" AND ASSOCIATED UTILITY SERVICES. COORDINATE WORK WITH COMED.
 - F. FURNISH, INSTALL, AND ENERGIZE PROPOSED LIGHTING UNITS ON THE EAST SIDE OF US-45 (LoGRANGE ROAD) AS INDICATED ON DRAWINGS E-17 THROUGH E-20. FURNISH AND INSTALL TEMPORARY CONNECTION FOR LIGHTING CONTROLLER "C103" CIRCUITS G AND H BETWEEN CONTROLLER "C103" AND LIGHTING UNIT "C103.G.3" TO ENERGIZE LUMINAIRES AS SHOWN ON DRAWING E-18.

STAGE 2

- A. REMOVE ALL TEMPORARY LIGHTING UNITS, TEMPORARY LIGHTING CONTROLLERS "T101", "T102", AND "T103", ASSOCIATED UTILITY SERVICES, AND WIRING ONCE TRAFFIC IS SHIFTED TO PROPOSED NORTHBOUND LANES CONSTRUCTED IN STAGE 1.

STAGE 3

- A. CONSTRUCT NEW LIGHTING UNIT FOUNDATIONS FOR PROPOSED AND EXISTING TO BE RELOCATED LIGHTING UNITS AS SHOWN ON DRAWING E-34 BETWEEN 144th PLACE AND 143rd STREET ALONG SOUTHBOUND (WEST) SIDE OF US-45 (LoGRANGE ROAD). INSTALL LIGHTING UNITS ON PROPOSED FOUNDATIONS. CONNECT LUMINAIRES TO EXISTING LIGHTING CONTROLLER "RWP-1". CONNECT THE RECEPTACLES ON LIGHTING UNITS TO EXISTING RECEPTACLE CONTROLLER "H-2".
- B. CONSTRUCT NEW LIGHTING UNIT FOUNDATION FOR EXISTING TO BE RELOCATED LIGHTING UNIT "C6H4" AT LOCATION SHOWN ON DRAWING E-31. REMOVE, REINSTALL, AND ENERGIZE LIGHTING UNIT AT PROPOSED LOCATION.
- C. FURNISH, INSTALL, AND ENERGIZE PROPOSED LIGHTING UNITS ON THE WEST SIDE OF US-45 (LoGRANGE ROAD) AS INDICATED ON DRAWINGS E-31 THROUGH E-34.

SIDE ROAD CONSTRUCTION STAGE A

- A. CONSTRUCT NEW LIGHTING UNIT FOUNDATIONS FOR PROPOSED AND EXISTING TO BE RELOCATED LIGHTING UNITS ALONG SOUTH SIDES (EASTBOUND LANES) OF SIDE ROADS AS SHOWN ON DRAWINGS E-21 THROUGH E-23. INSTALL AND ENERGIZE LIGHTING UNITS ON PROPOSED FOUNDATIONS. COORDINATE INSTALLATION AND CONNECTION OF LIGHTING UNITS WITH CONSTRUCTION STAGES FOR US-45 (LoGRANGE ROAD) AND ALL SIDE ROADS IMPACTED BY THIS PROJECT.

SIDE ROAD CONSTRUCTION STAGE B

- A. CONSTRUCT NEW LIGHTING UNIT FOUNDATIONS FOR PROPOSED AND EXISTING TO BE RELOCATED LIGHTING UNITS ALONG NORTH SIDES (WESTBOUND LANES) OF SIDE ROADS AS SHOWN ON DRAWINGS E-28 THROUGH E-30. INSTALL AND ENERGIZE LIGHTING UNITS ON PROPOSED FOUNDATIONS. CONSTRUCT PERMANENT CONNECTION OF PROPOSED LIGHTING CONTROLLER "C103" CIRCUITS G, H, R2, AND R4. AND REMOVE TEMPORARY AERIAL CONNECTION TO CONTROLLER FROM LIGHTING UNIT "C103.G.3". COORDINATE INSTALLATION AND CONNECTION OF LIGHTING UNITS WITH CONSTRUCTION STAGES FOR US-45 (LoGRANGE ROAD) AND ALL SIDE ROADS IMPACTED BY THIS PROJECT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 45 (LoGRANGE ROAD)
ELECTRICAL GENERAL NOTES AND PHASING NOTES**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-4	COOK	877	413
E-2		CONTRACT NO. 60M61		
ILLINOIS FED. AID PROJECT				