

PREP	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH	A47	LAKE	176	111
STA.		TO STA.		
03-00088-00-PP		KILNOS		SURFACE TRANSPORTATION PLANING
CONTRACT NUMBER 83907				

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLE FOUNDATIONS, CENTER LINE OF TRENCH AND CONDUIT PUSHES AND THE LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE VILLAGE AND ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMIC ALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ROADWAY LIGHTING". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
NO LIGHT POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING CONTROL CABINET. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
THE LIGHTING CONTROL CABINET SHALL BE CONSTRUCTED TO U.L. STANDARD 508 AND BEAR THE LABEL "INDUSTRIAL CONTROL PANEL" WITHIN THE CABINET DOOR.
TO MAINTAIN STRUCTURAL INTEGRITY OF THE LIGHT POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT POLES SHALL NOT BE PAID UNTIL THE LUMINAIRES ARE INSTALLED.
NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION BY 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.
CONDUIT PUSHED AND IN TRENCH SHALL EXTEND FIVE (5) FEET BEYOND THE SHOULDER, CURB OR DRIVEWAY, AS APPLICABLE.
THE CONTRACTOR SHALL PROVIDE A 3/4" X 10' COPPER CLAD GROUND ROD AT EACH LIGHT POLE (REFER TO THE FOUNDATION DETAIL).
THE UNIT DUCT AND CONDUIT SHALL BE INSTALLED MIN. 30 INCHES BELOW FINISHED GRADE (UNLESS DIRECTED OTHERWISE) COMPLETE WITH WARNING TAPE. CONTRACTOR SHALL HAND DIG TEST HOLES FOR EVERY 1000 FT. OF TRENCHING/PLOWING FOR ENGINEER'S APPROVAL OF THE INSTALLATION.
- MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH CODES AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION. NATIONAL ELECTRICAL CODE (LATEST REVISION) SHALL BE CONSIDERED AS A MINIMUM REQUIREMENT.
- IT IS CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTACT J.U.L.I.E. PRIOR TO THE START OF ANY EXCAVATION WORK.
- BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL COMED CO. FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND MUNICIPAL UTILITIES CALL THE VILLAGE OF BUFFALO GROVE.
- MATERIAL QUANTITIES ARE APPROXIMATIONS ONLY. IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL QUANTITIES PRIOR TO ORDERING MATERIAL.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND STAGING WITH OTHER WORK BEING DONE IN THE SAME GENERAL AREA BY COMED. CONTRACTOR SHALL SET UP COORDINATION MEETINGS IF REQUIRED.
- A STAGING SCHEDULE FOR MATERIAL INSTALLATION, REMOVAL AND APPROXIMATE DATE OF PROPOSED ENERGIZING OF PERMANENT LIGHTING SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK TO ASSURE COORDINATION WITH EXPEDITED WORK SCHEDULE.

- COMMONWEALTH EDISON COMPANY SHALL BE CONTACTED AS SOON AS POSSIBLE AND NOTIFIED OF PENDING SERVICE CONNECTIONS AND INSTALLATIONS TO ENSURE CONTINUITY OF NIGHT TIME HOURS OF LIGHTING OPERATION.
- ALL PROPOSED LIGHTING CONTROL CABINETS SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY. THE EXACT LOCATION TO BE CONFIRMED IN THE FIELD BY THE RESIDENT ENGINEER.
- ALL PROPOSED LIGHT POLE FOUNDATIONS, LIGHT FIXTURES, UNIT DUCT, AND CONDUIT SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE EXACT LOCATION IS TO BE CONFIRMED IN THE FIELD BY THE RESIDENT ENGINEER.
- EACH WIRE SHALL BE IDENTIFIED AT EACH POLE BY APPROPRIATE CONTROLLER AND CIRCUIT NUMBER.
- CONTRACTOR SHALL SUBMIT "RECORD DRAWINGS" A MINIMUM OF 7 DAYS PRIOR TO THE FINAL INSPECTION. "RECORD DRAWINGS" SHALL BE UPDATED REGULARLY DURING CONSTRUCTION AND INDICATE ALL LIGHTING MATERIAL INSTALLATION WITH ANY CHANGES IN RED.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE VILLAGE AND ENGINEER.
- CONTRACTOR SHALL NOT PROCEED WITH CUTTING OF TREES OR CLEARING OF RIGHT- OF-WAY WITHOUT WRITTEN NOTIFICATION OF ENGINEER.
- CONTRACTOR TO VERIFY FOUNDATION BOLT PATTERN PRIOR TO CONSTRUCTING FOUNDATIONS.
- THE CONTRACTOR SHALL INSTALL A NEW FULL HEIGHT BASE COVER FOR EACH PROPOSED LIGHT POLE AND ALL EXISTING LIGHT POLES CONNECTED TO PROPOSED CONTROL CABINETS 1,2,3,4 AND EXISTING CONTROL CABINET WEST OF WIELAND ROAD.
- LIGHTING CONTROLLER SHALL BE PAINTED GREEN TO MATCH EXISTING CONTROLLERS. PAINT SHALL BE AN ALKYD ENAMEL FOR EXTERIOR USE. CONTROLLER SHALL BE PREPARED WITH A PRIMER APPROVED BY THE PAINT MANUFACTURER FOR USE ON THIS SUBSTRATE.
- QUANTITY OF PUSHED CONDUIT AND CONDUIT IN TRENCH ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY THE QUANTITIES PRIOR TO ORDERING THE MATERIAL AND INSTALL CONDUITS IN FULL COMPLIANCE WITH THE DETAILS AND SPECIFICATIONS SET REQUIREMENTS.
- A PHOTOCELL SHALL BE MOUNTED ON THE CLOSEST POLE TO LIGHTING CONTROLLER. FURNISH WEATHER TIGHT ADAPTER FOR MOUNTING PHOTOCELL. PHOTOCELL CONTROL CABLES SHALL RUN INSIDE THE SAME RACEWAY AS THE LIGHTING CIRCUIT. THE PHOTOCELL AND PHOTOCELL WIRING SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER AND SHALL NOT BE PAID FOR SEPARATELY.
- THE CONTROLLER AND CIRCUIT DESIGNATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. EXACT DESIGNATIONS FOR DECALS SHALL BE AS DIRECTED BY THE OWNER.
- THE POLE DESIGNATION AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. EXACT DESIGNATION OF ALL NEW POLES AND RELOCATED POLES SHALL BE AS DIRECTED BY THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, FLAG AND PROTECT ALL EXISTING UNDERGROUND UTILITIES PRIOR TO AND DURING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO EXTRA COST TO THE VILLAGE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED CABLE IN UNIT DUCT.
- CIRCUIT NUMBERING AND DESIGNATIONS SHOWN ON THE PLANS ARE FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY CIRCUIT NUMBERING, CABLE ROUTING AND POWER SOURCES DURING CONSTRUCTION.
ANY REMOVED LIGHT POLES/FIXTURES SHALL BE TURNED OVER TO THE VILLAGE. COORDINATE LOCATION AND DELIVERY TIMES WITH OWNER/ENGINEER. CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING SYSTEM IN OPERATION DURING INSTALLATION OF PROPOSED LIGHTING SYSTEM.
- UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN ON THESE PLANS ARE PROPOSED NEW ITEMS OF WORK.
- CONTRACTOR'S STAGING AREA SHALL BE AS DIRECTED BY THE OWNER IN THE PRE-CONSTRUCTION MEETING.

- ON ALL EXISTING AND RELOCATED POLES WITH PHOTOCELLS (EXCEPT 1XB1, 2XB2 AND 3XD1) WITHIN PROJECT LIMITS) CONTRACTOR SHALL REPLACE EXISTING PHOTOCELL WITH PHOTOCELL RECEPTACLE SHORTENING PLUG.
- CONTRACTOR SHALL OBTAIN EXISTING LIGHTING PLANS FROM THE VILLAGE OF BUFFALO GROVE PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL RELAMP AND CLEAN (REFLECTORS AND LENS) ALL EXISTING FIXTURES IN PROJECT LIMITS. PROPOSED LAMP SHALL BE TYPE GE LU250/S WITH 30,000 LIGHT LUMENS OR APPROVED EQUAL.
- CONDUCTORS SHALL BE SPLICED IN LIGHTING CONTROLLERS AND LIGHT POLE BASES ONLY.

SUMMARY OF ELECTRICAL QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
80700110	GROUND ROD, 3/4" DIA. X 10'	EACH	83
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	656
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	385
XX006359	UNIT DUCT, WITH 2-1/C #6 AND 1-1/C #8 GROUND, 600V (XLP-TYPE USE), 2" DIA., POLYETHYLENE	FOOT	13100
XX006360	UNIT DUCT, WITH 3-1/C #6 AND 1-1/C #8 GROUND, 600V (XLP-TYPE USE), 2" DIA., POLYETHYLENE	FOOT	750
XX006361	UNIT DUCT, WITH 4-1/C #6 AND 2-1/C #8 GROUND, 600V (XLP-TYPE USE), 2" DIA., POLYETHYLENE	FOOT	300
XX006362	UNIT DUCT, WITH 2-1/C #6 AND 1-1/C #8 GROUND AND 3-1/C #12 AND 1-1/C #12 GROUND, 600V (XLP-TYPE USE), 2" DIA., POLYETHYLENE	FOOT	300
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	300
XX006363	ELECTRIC CABLE, #2/0 STRANDED BARE COPPER, GROUND	FOOT	450
83029200	LIGHT POLE, STEEL, 35FT. M.H., 6FT. MAST ARM	EACH	42
83600100	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	548
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	42
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	4
80400100	ELECTRIC SERVICE INSTALLATION	EACH	4
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	13577
84200700	LIGHTING FOUNDATION REMOVAL	EACH	26
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	29
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	1
XX0321478	MAINTENANCE OF EXISTING LIGHTING SYSTEM COMPLETE	L SUM	1
XX032083	BREAKAWAY DEVICE	EACH	71
XX006364	PHOTOCELL SHORTING CAP	EACH	32
XX0324687	BASE COVER, LIGHT POLE	EACH	22
XX006365	EXISTING FIXTURE MAINTENANCE	EACH	35

ABBREVIATIONS

GRS - GALVANIZED RIGID STEEL	C - CONDUIT
RGS - RIGID GALVANIZED STEEL	E - ELECTRICAL
CCT - CIRCUIT	REM - REMOVED
DIA - DIAMETER	P - PROPOSED
GND - GROUND	EX - EXISTING
REL - RELOCATED	AWG - AMERICAN WIRE GAUGE
KW - KILOWATT	UD - UNIT DUCT

LEGEND

- EXISTING LIGHTING CONTROL CABINET
- PROPOSED LIGHTING CONTROL CABINET
- PROPOSED PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
- EXISTING VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE D TO REMAIN
- EXISTING VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE D TO BE RELOCATED (SEE NOTE #36)
- RELOCATED VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE D (SEE NOTE #36)
- EXISTING VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE A&B TO REMAIN
- EXISTING VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE A&B TO BE RELOCATED (SEE NOTE #36)

- RELOCATED VILLAGE OF BUFFALO GROVE TYPE A&B LIGHTING UNIT (SEE NOTE #36)
- EXISTING VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE A&B TO BE REMOVED (SEE NOTE #36)
- PROPOSED TRAFFIC SIGNAL COMBINATION LIGHT POLE LUMINAIRE
- PROPOSED VILLAGE OF BUFFALO GROVE LIGHTING UNIT TYPE D
- POLE NUMBER
- CIRCUIT NUMBER (LIGHTING FIXTURES)
- FESTOON OUTLET CIRCUIT LETTER (X = NONE REQUIRED)
- LIGHTING CONTROL CABINET DESIGNATION
- EXISTING TRAFFIC SIGNAL COMBINATION LIGHT POLE LUMINAIRE TO REMAIN
- EXISTING LIGHTING CABLE
- PROPOSED LIGHTING CABLE IN 2" UNIT DUCT (CABLE SIZE AS NOTED)
- PROPOSED GRS CONDUIT, PUSHED (P) OR TRENCHED (T), AS NOTED
- PROPOSED SIDEWALK REMOVAL/REPLACEMENT

E1 OF E22

VILLAGE OF BUFFALO GROVE
LIGHTING PLANS
GENERAL NOTES AND LEGEND

DATE: 6/2/2005
DESIGNED BY: CMW
TECHNICIAN: JRH
CHECKED BY: MAR



REVISIONS	
NAME	DATE