

**GENERAL LIGHTING 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 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 EXOTHERMICALLY 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 ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OPERATIONS.
- 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, A MINIMUM OF SEVEN DAYS OR AS APPROVED BY THE ENGINEER.
- 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 EDGE OF 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 GROUND ROD SHALL NOT BE EMBEDDED IN THE FOUNDATION.
- ALL CONDUIT SHALL BE INSTALLED MIN. 36 INCHES BELOW FINISHED GRADE (UNLESS DIRECTED OTHERWISE) COMPLETE WITH WARNING TAPE. CONTRACTOR SHALL HAND DIG TEST HOLES FOR EVERY 1000 FT. OF TRENCHING FOR ENGINEER'S APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE ENGINEER.
- 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 NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND MUNICIPAL UTILITIES CALL THE NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES.
- 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 NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC. 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 ENSURE COORDINATION WITH CONTRACT WORK SCHEDULE.
- CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC SHALL BE CONTACTED WITHIN ONE WEEK OF AWARD OF CONTRACT AND NOTIFIED OF PENDING SERVICE CONNECTIONS AND INSTALLATIONS TO ENSURE CONTINUITY OF NIGHT TIME HOURS OF LIGHTING OPERATION.
- PROPOSED NEW CONDUITS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), UNLESS NOTED OTHERWISE.
- 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 AND APPROVED BY ENGINEER.

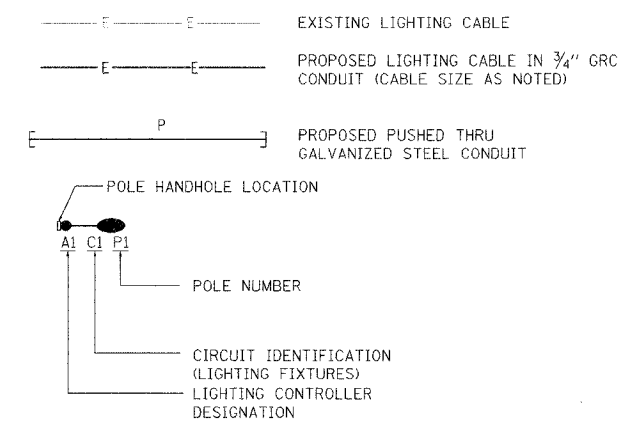
- CONTRACTOR SHALL VERIFY FOUNDATION BOLT PATTERN PRIOR TO CONSTRUCTING FOUNDATIONS.
- ALL LIGHT POLES WILL HAVE A MOUNTING HEIGHT OF 47.5' WITH 10' MAST ARM LENGTH UNLESS SPECIFIED OTHERWISE.
- QUANTITY OF PUSHED CONDUIT AND CONDUIT IN TRENCH ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY THE QUANTITIES PRIOR TO ORDERING THE MATERIAL AND INSTALL CONDUITS IN FULL COMPLIANCE WITH THE DETAILS AND SPECIFICATIONS SET REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE NEW LIGHT FIXTURES PER SCHEDULE. NEW FIXTURES SHALL BE FURNISHED WITH INTEGRAL PHOTOCELL SOCKET AND WEATHERTIGHT SHORTING CAP.
- THE CONTROLLER AND CIRCUIT DESIGNATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. EXACT DESIGNATIONS FOR DECALS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE POLE DESIGNATION AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. EXACT DESIGNATION OF ALL POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE INSTALLATION OF THE IDENTIFICATION LABELS.
- NEW POLES AND RELOCATED POLES SHALL BE AS DIRECTED BY THE ENGINEER.
- 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 CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE INSTALLATION OF THE PROPOSED CONDUIT.
- 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/PHOTOCELLS 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 ENGINEER IN THE PRE-CONSTRUCTION MEETING.
- EXISTING POLES AND FIXTURES TO REMAIN, UNLESS NOTED OTHERWISE. REROUTE AND EXTEND CONDUIT AND WIRING AS REQUIRED FOR EXISTING REMAINING LIGHT POLES.
- CONTRACTOR SHALL OBTAIN EXISTING LIGHTING PLANS FROM THE CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES-ELECTRIC PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE NEW COMPLETE FIXTURES IN PROJECT LIMITS. PROPOSED FIXTURES SHALL BE MANUFACTURED BY GE LIGHTING, CATALOG NUMBER MDCL40SOAZZFM21 OR APPROVED EQUAL.
- CONTRACTOR SHALL PROVIDE NEW LIGHT POLES IN PROJECT LIMITS. PROPOSED POLES SHALL BE 40 FEET MOUNTING HEIGHT, ALUMINUM, WITH 10 FOOT MAST ARM.
- ALL CONDUIT WILL BE 3/4" GRC CONDUIT AND ALL CABLES WILL BE 1-3/8" No.6, THWN, 1-No.6 GND UNLESS SPECIFIED OTHERWISE.
- THE DESIGN OF CONDUITS EMBEDDED IN BRIDGE OR RETAINING WALL STRUCTURES ARE DETAILED ON THE STRUCTURAL SHEETS FOR THOSE STRUCTURES.
- TRAFFIC LIGHT CONTRACTOR NEEDS TO INSTALL SERVICE TO DPU-ELECTRIC FACILITIES, AND FOLLOW DPU-E PROCEDURES ACCORDING TO SERVICE RULES AND POLICIES.

**ABBREVIATIONS**

AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CCT	CIRCUIT
DIA	DIAMETER
E	ELECTRICAL
EX	EXISTING
GND	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
KW	KILOWATT
REL	RELOCATED
REM	REMOVED
RGS	RIGID GALVANIZED STEEL
P	PROPOSED
PVC	POLY VINYL CHLORIDE (SCHEDULE 80 CONDUIT)
STA	STATION

**LEGEND**

- EXISTING LIGHTING CONTROLLER TO REMAIN.
- PROPOSED NEW HANDHOLE
- EXISTING CITY OF NAPERVILLE ALUMINUM LIGHT POLE AND FIXTURE
- PROPOSED CITY OF NAPERVILLE 40 FEET MOUNTING HEIGHT ALUMINUM LIGHT POLE WITH 10 FT. MAST ARM AND 400W HPS LIGHT FIXTURE PER CITY OF NAPERVILLE STANDARDS
- PROPOSED TUNNEL LUMINAIRE
- GROUNDING ELECTRODE
- ILLUMINATED STREET SIGN



CODE NO.	ITEM	UNIT	TOTAL QUANTITY
80700110	GROUND ROD, 3/4" DIA. X 10 FT.	EACH	3
80400100	ELECTRIC SERVICE INSTALLATION	EACH	3
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
XX003216	UNIT DUCT, WITH 3-1/8" NO. 6 AND 1/8" NO. 6 GROUND, 600V (XLP-TYPE USE), 1 1/4" DIA., POLYETHYLENE	FOOT	13122
	UNIT DUCT, WITH 3-1/8" NO. 2 AND 1/8" NO. 2 GROUND, 600V (XLP-TYPE USE), 2" DIA., POLYETHYLENE	FOOT	155
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	170
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1033
81400100	HANDHOLE	EACH	8
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	11542
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	72
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	3
82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	3
83007400	LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	6
83008400	LIGHT POLE, ALUMINUM, 40 FT. M.H., 10 FT. MAST ARM	EACH	66
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	1290
83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	40
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	13
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	26
84200700	LIGHTING FOUNDATION REMOVAL	EACH	26
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	88

CONTRACTOR MUST CALL JULIE AT (800) 892-0123 AT LEAST TWO WORKING DAYS BEFORE DIGGING. RED COLOR USED TO MARK BURIED ELECTRICAL FACILITIES.



REVISIONS	
NAME	DATE

**INTERSECTION IMPROVEMENT  
WASHINGTON STREET - 75th STREET  
GENERAL NOTES, ABBREVIATIONS  
AND LEGEND**

CONSULTANT  
**TYLIN INTERNATIONAL**

City of **Naperville**

DRAWN: FO	SHEET NO.
CHECKED: FI	
APPROVED: DEM	
DATE: 04/11/08	
SCALE:	
JOB NO.: P-91-494-00	PROJECT NO.: CMM-7003 (983)