

GENERAL NOTES

1. 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.
2. 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 BACKFILLING.
3. 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 COMPLETING BACKFILLING OPERATIONS.
4. 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.
5. NO LIGHT POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, A MINIMUM OF SEVEN DAYS OR AS APPROVED BY THE ENGINEER.
6. 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.
7. 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.
8. CONDUIT PUSHED AND IN TRENCH SHALL EXTEND FIVE (5) FEET BEYOND THE SHOULDER, CURB OR DRIVEWAY, AS APPLICABLE.
9. THE CONTRACTOR SHALL PROVIDE A 5/8" 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.
10. ALL 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 FOR ENGINEER'S APPROVAL OF THE INSTALLATION.
11. 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.
12. IT IS CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTACT J.U.L.L.E. PRIOR TO THE START OF ANY EXCAVATION WORK.
13. BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL UTILITY COMPANY FOR APPROVAL OF LOCATION.
14. FOR LOCATION OF EXISTING UNDERGROUND MUNICIPAL UTILITIES CALL THE VILLAGE OF DOWNERS GROVE.
15. MATERIAL QUANTITIES ARE APPROXIMATIONS ONLY. IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL QUANTITIES PRIOR TO ORDERING MATERIAL.
16. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND STAGING WITH OTHER WORK BEING DONE IN THE SAME GENERAL AREA BY UTILITY COMPANY. CONTRACTOR SHALL SET UP COORDINATION MEETINGS IF REQUIRED.
17. 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 CONTRACT WORK SCHEDULE.
18. POWER UTILITY 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.
19. EXISTING LIGHTING CONTROL CABINETS SHALL BE REMOVED AND PROVIDE NEW LIGHTING CONTROL CABINET PER VILLAGE OF DOWNERS GROVE STANDARDS.
20. PROPOSED NEW CONDUITS SHALL BE HDPE SCHEDULE 40, UNLESS NOTED OTHERWISE.
21. EACH WIRE SHALL BE IDENTIFIED AT EACH POLE BY APPROPRIATE CONTROLLER AND CIRCUIT NUMBER.
22. 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.
23. ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE VILLAGE AND ENGINEER.
24. CONTRACTOR SHALL NOT PROCEED WITH CUTTING OF TREES OR CLEARING OF RIGHT-OF-WAY WITHOUT WRITTEN NOTIFICATION AND APPROVED BY ENGINEER.
25. CONTRACTOR TO VERIFY FOUNDATION BOLT PATTERN PRIOR TO CONSTRUCTING FOUNDATIONS.

26. CONDUCTORS IN LIGHT POLES AND COMBINATION MAST ARMS AND POLES SHALL BE PROPERLY SUPPORTED INDEPENDENT OF THE LUMINAIRE TERMINALS.
27. 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.
28. THE CONTRACTOR SHALL PROVIDE NEW PHOTOCELL FOR NEW LIGHTING CONTROL. A PHOTOCELL SHALL BE MOUNTED ON THE CLOSEST POLE TO THE EXISTING 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.
29. 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.
30. 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.
31. 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 INCLUDED IN THE COST OF THE PROPOSED CONDUIT.
32. COMBINATION MAST ARMS AND POLES ARE INSTALLED AND PAID FOR UNDER TRAFFIC SIGNAL WORK. COORDINATE LUMINAIRE INSTALLATION AND CONDUITS IN FOUNDATIONS WITH TRAFFIC SIGNAL WORK.
33. ANY REMOVED LIGHT POLES/FIXTURES/PHOTOCELLS AND CONTROLLERS 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.
34. UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN ON THESE PLANS ARE PROPOSED NEW ITEMS OF WORK.
35. CONTRACTOR'S STAGING AREA SHALL BE AS DIRECTED BY THE OWNER IN THE PRE-CONSTRUCTION MEETING.
36. EXISTING POLES AND FIXTURES NOT MARKED FOR REMOVAL SHALL REMAIN. REROUTE AND EXTEND CONDUIT AND WIRING AS REQUIRED FOR EXISTING REMAINING LIGHT POLES.
37. CONTRACTOR SHALL OBTAIN EXISTING LIGHTING PLANS FROM THE VILLAGE OF DOWNERS GROVE PRIOR TO STARTING CONSTRUCTION.
38. CONTRACTOR SHALL PROVIDE NEW COMPLETE FIXTURES IN PROJECT LIMITS. PROPOSED FIXTURES SHALL BE MANUFACTURED BY AMERICAN ELECTRIC, TYPE 325-25-S-R3-FG-HP, 250W HPS, 28,000 LIGHT LUMENS OR ENGINEER APPROVED EQUAL.
39. CONTRACTOR SHALL PROVIDE NEW ALUMINUM LIGHT POLES IN PROJECT LIMITS. LIGHT POLES SHALL BE 30 FEET MOUNTING HEIGHT AND 6 FEET MAST ARM.
40. CONDUCTORS SHALL BE SPLICED IN LIGHTING CONTROLLERS AND LIGHT POLE BASES ONLY. NO SPLICES SHALL BE LOCATED BELOW GRADE.
41. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE INDICATED BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE CONTRACTOR SHALL CONFIRM UNDERGROUND UTILITY AND DRAINAGE LOCATIONS IN THE FIELD PRIOR TO EXCAVATING. THE CONTRACTOR SHALL RELOCATE UNDERGROUND CABLES AS REQUIRED TO AVOID UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL ADJUST THE POSITION OF TEMPORARY LIGHT POLES AND CONSTRUCT OFFSET LIGHT POLE FOUNDATIONS AS REQUIRED TO AVOID UNDERGROUND UTILITIES AND STRUCTURES. DEVIATIONS FROM THE CONTRACT PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION AND ACCURATELY REPORTED ON THE RECORD DRAWINGS.
42. ELECTRICAL WORK SHALL BE COORDINATED WITH ALL OF THE WORK REQUIRED IN THIS CONTRACT. LACK OF COORDINATION WITH OTHER WORK INCLUDED IN THIS CONTRACT, WHETHER OR NOT SHOWN ON THE ELECTRICAL PLANS, SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.

LEGEND

- EXISTING LIGHTING CONTROL CABINET TO REMOVE.
- NEW LIGHTING CONTROL CABINET.
- VILLAGE OF DOWNERS GROVE EXISTING LIGHT FIXTURE, POLE AND FOUNDATION, TO BE REMOVED
- PROPOSED VILLAGE OF DOWNERS GROVE COMBINATION MAST ARM AND POLE WITH TWO 250W HPS LUMINAIRES, 45 FEET MOUNTING HEIGHT, (2) 6 FEET MAST ARMS AND FOUNDATION.
- PROPOSED VILLAGE OF DOWNERS GROVE ALUMINUM LIGHT POLE AND 250W HPS LUMINAIRE, 30 FEET MOUNTING HEIGHT, 6 FEET MAST ARM AND FOUNDATION.
- POLE NUMBER
- CIRCUIT IDENTIFICATION (LIGHTING FIXTURES)
- LIGHTING CONTROL CABINET DESIGNATION
- GROUNDING

PROPOSED LIGHTING CABLE IN 1 1/4" SCHEDULE 40 HDPE UNIT DUCT CONDUIT (CABLE SIZE AS NOTED)

PROPOSED RGS CONDUIT, PUSHED

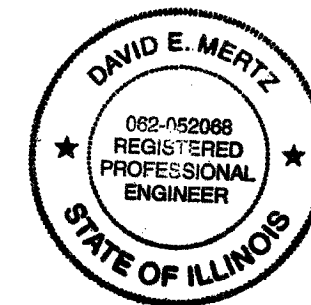
ABBREVIATIONS

- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CCT CIRCUIT
- DIA DIAMETER
- E ELECTRICAL
- EX EXISTING
- GND GROUND
- RGS RIGID GALVANIZED STEEL
- P PROPOSED
- PVC POLY VINYL CHLORIDE (SCHEDULE 80 CONDUIT)
- STA STATION
- T TRENCH
- UD UNIT DUCT

PAY ITEM	UNIT	TOTAL BID QTY
ELECTRICAL UTILITY SERVICE CONNECTION	EACH	1
GROUND ROD, 5/8" DIA. X 10FT	EACH	26
CONDUIT TRENCH, 2" DIA GALVANIZED STEEL	FOOT	100
CONDUIT TRENCH, 2 1/2" DIA GALVANIZED STEEL	FOOT	488
CONDUIT PUSH, 2 1/2" DIA GALVANIZED STEEL	FOOT	572
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	4,488
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 3-1/0 NO. 6	FOOT	200
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	38
LIGHTING CONTROLLER TYPE CB-RCS 100 AMP - 240 VOLT	EACH	1
LIGHT POLE, ALUMINUM, 30FT MH, 6FT MAST ARM	EACH	28
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	400
BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	112
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
REMOVE EXISTING LIGHT POLE AND FOUNDATION	EACH	9
UNIT DUCT WITH 2-1/0 NO. 8 & 1/0 NO. 8 GROUND, 600V(EPR-TYPE RHW) 1 1/4" DIA POLYETHYLENE	FOOT	5,521

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2583	02-00092-00-WR	DU PAGE	49	27
FEDERAL RD. DIST. NO. 1 ILLINOIS FEDERAL AID PROJECT				
CONTRACTE 03-256				

Scale For Referencing
Inches
Copyright © 2007 Burns and McDonnell Engineering Company, Inc.



[Signature]
SIGNED 10 APR 2007
LICENSE EXPIRES 30 NOV 2007

date 04 / 10 / 2007	detailed BMH
designed FO	checked DEM
VILLAGE OF DOWNERS GROVE WOODWARD AVENUE LIGHTING LAYOUT GEN. NOTES, LEGEND AND ABBREVIATIONS	
project 45190	contract
drawing E01	rev. 0
sheet 1	of 1
file I:\DOWNERS_145190\CA01	sheet E01