

GENERAL ELECTRICAL PLAN NOTES

- THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG HARLEM AVE. FROM 127TH STREET TO 119TH STREET/COLLEGE DRIVE/ ILL. RTE. 83. THE EXISTING LIGHTING SHALL BE REMOVED WHEN PROPOSED LIGHTING IS OPERATIONAL.
- THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY AT 1-866-639-3532 TO COORDINATE THE ELECTRIC SERVICE WORK.
- THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER'S REVIEW WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT COPIES OF APPROVED MANUFACTURER'S PRODUCT DATA AND DETAILED SHOP DRAWINGS TO THE RESIDENT ENGINEER.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRE. NOTE THAT THE LIGHT POLES WILL NOT BE PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES ARE INSTALLED.
- THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. 48 HOURS PRIOR TO WORK TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF PALOS HEIGHTS AT 708-361-1806 48 HOURS PRIOR TO WORK TO LOCATE AND MARK/STAKE ALL CITY OWNED UNDERGROUND UTILITIES.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- THE CONTRACTOR SHALL COORDINATE THE FOUNDATION HEIGHTS WITH THE FINISHED SIDEWALK ELEVATION SO FOUNDATION DOES NOT PROTRUDE BEYOND SPECIFIED REQUIREMENTS.
- AT THE COMPLETION OF THE PROJECT THE LIGHTING SYSTEMS SHALL BE OWNED AND MAINTAINED BY THE CITY OF PALOS HEIGHTS.
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZED COMPLETE AND ACCURATE "RECORD DRAWINGS" TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON A REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "REPRODUCIBLE RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION. THIS WORK SHALL BE INCLUDED IN COST OF MAINTENANCE OF TEMPORARY LIGHTING SYSTEM ITEM.
- LIGHT POLE LOCATIONS ARE BASED ON AVAILABLE SURVEY DATA. CONTRACTOR SHALL MARK PROPOSED CONTROLLER AND LIGHT POLE LOCATIONS IN FIELD AND MAKE ADJUSTMENTS IN FIELD AS APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL TAKE CARE INSTALLING UNIT DUCT AND AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL TAKE CARE INSTALLING LIGHT POLE FOUNDATIONS AND AVOID CONFLICTS WITH UNDERGROUND UTILITIES. SOME POLE LOCATIONS WHICH WILL REQUIRE OFFSET FOUNDATIONS HAVE BEEN INDICATED ON THE PLANS. THE ENGINEER SHALL DETERMINE IF ADDITIONAL LOCATIONS ARE REQUIRED.
- PROPOSED LIGHTING UNITS SHALL BE SET BACK 3.5 FT. FROM BACK OF CURB TO CENTER OF POLE ON EAST SIDE OF HARLEM AVE. AND SETBACK 5.5 FT FROM BACK OF CURB TO CENTER OF POLE ON WEST SIDE OF HARLEM AVE UNLESS OTHERWISE INDICATED. DUE TO LIMITED R.O.W. AND SIDEWALK POLES AS INDICATED SHALL BE SET BACK A MINIMUM OF 2FT. FROM FACE OF CURB TO FACE OF POLE/BASE. LIGHTING UNITS SHALL BE EQUIPPED WITH BREAKAWAY DEVICES. POLES TO BE INSTALLED BETWEEN 122ND ST. AND 124TH ST. SHALL NOT HAVE BREAKAWAY DEVICES DUE TO PEDESTRIAN TRAFFIC. PLACEMENT OF ALL LIGHT POLE FOUNDATIONS SHALL MEET ADA REQUIREMENTS.
- GROUND RODS SHALL BE FURNISHED AND INSTALLED AS REQUIRED PER PLAN FOR EACH LIGHTING UNIT. THE COST SHALL BE INCLUDED WITH PAY ITEM LIGHTING UNIT COMPLETE SPECIAL. GROUND RODS SHALL BE FURNISHED AND INSTALLED AS REQUIRED PER PLAN FOR EACH LIGHTING CONTROLLER. THE COST SHALL BE INCLUDED WITH PAY ITEM LIGHTING CONTROLLER, SPECIAL.

SUMMARY OF QUANTITIES - ROADWAY LIGHTING IMPROVEMENT

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1793
21301048	EXPLORATION TRENCH 48" DEPTH	FOOT	200
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	200
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	200
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	200
25200100	SODDING	SQ YD	1793
+ 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2319
+ 42400800	DETECTABLE WARNINGS	SQ FT	204
+ 44000600	SIDEWALK REMOVAL	SQ FT	2319
+ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100
+ 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1
+ 66900530	SOIL DISPOSAL ANALYSIS	FACH	4
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
80400100	ELECTRIC SERVICE INSTALLATION	EACH	3
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	425
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1290
81603090	UNIT DUCT, 600V, 3-1/C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	12065
81702180	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	1329
81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	10795
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	125
83057340	LIGHT POLE, WOOD, 60 FOOT, CLASS 3	EACH	2
83600200	LIGHT POLE FOUNDATION 24" DIAMETER	FOOT	520
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	55
84200804	REMOVAL OF POLE FOUNDATION	EACH	53
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
* X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	66
* X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	3
* X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	140
* X8410118	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	L SUM	1
* + XX005845	MODULAR CONCRETE PAVERS (SPECIAL)	SQ FT	16850
+ DENOTES SPECIALTY ITEMS			
* REQUIRES SPECIAL PROVISIONS			

20. EXISTING LIGHTING UNITS AND CONTROLLER AT 124TH STREET SHALL REMAIN TO PROVIDE TEMPORARY LIGHTING WHILE PROPOSED LIGHTING IS INSTALLED. THE COST FOR THIS WORK SHALL BE INCLUDED IN PAY ITEM MAINTENANCE OF TEMPORARY LIGHTING SYSTEM.

21. AERIAL CABLE SHALL BE CONNECTED TO THE EXISTING LIGHTING UNITS PRIOR TO REMOVAL OF EXISTING DUCT AND CONDUCTORS TO FACILITATE THE INSTALLATION OF PROPOSED UNIT DUCT. THE COST FOR REMOVAL OF TEMPORARY WOOD POLES, AERIAL CABLE AND EXISTING DUCT AND CONDUCTORS (AS REQUIRED BY THE ENGINEER) SHALL BE INCLUDED IN PAY ITEM REMOVAL OF TEMPORARY LIGHTING UNIT.

22. STAMPED BITUMINOUS WALKWAY REMOVAL (TYPICAL) COST INCLUDED IN BRICK PAVER INSTALLATION.

23. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

**LEGEND**

- PROPOSED LIGHTING UNIT: 40FT MH, 6FT MA, 400W 120V MCII METAL HALIDE LUMINAIRE AND 16" MH, 2FT MA LED LUMINAIRE 66W, 120V, SSCIII
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT FOR TEMPORARY LIGHTING
- UNIT DUCT, 600V, 3-1/C # 4, 1/C #6 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
- AERIAL CABLE 3-1/C NO. 2 WITH MESSENGER WIRE
- TEMPORARY WOOD POLE, 60 FOOT, CLASS 3
- ELECTRIC SERVICE POLE
- EXISTING LIGHTING CONTROLLER
- PROPOSED LIGHTING CONTROLLER
- RIGID GALVANIZED STEEL CONDUIT PUSHED AS INDICATED
- RIGID GALVANIZED STEEL CONDUIT IN TRENCH AS INDICATED
- GROUND ROD
- ELECTRIC CABLE IN CONDUIT 2", 3-1/C NO. 3/0

FILE NAME =	USER NAME = #USER#	DESIGNED - BL	REVISED -
#FILE#		DRAWN - RV	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - SA	REVISED -
	PLOT DATE = #DATE#	DATE - 06-03-11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CITY OF PALOS HEIGHTS LIGHTING IMPROVEMENTS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENERAL NOTES, LEGEND AND SUMMARY OF QUANTITIES		34B	COOK	20	2
SCALE:		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 63518	
ILLINOIS FED. AID PROJECT					

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