

GENERAL NOTES:

- NOT USED
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- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE I.D.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS.
- NOT USED
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 36" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY DRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE/CITY. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- NOT USED
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- ALL PITS USED FOR INSTALLING PUSHED (JACKED) STEEL CONDUITS UNDER EXISTING ROADWAYS SHALL BE LOCATED 1.53m (5 FT) 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 REQUIREMENTS. EACH PIT SHALL BE ADEQUATELY GUARDED TO PROTECT THE MOTORISTS. THE CONTRACTOR SHALL SUBMIT DRAWINGS FOR THE LOCATION AND SIZE OF EACH PIT AND FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC AT THE SITE OF EACH PIT. THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER BEFORE THE EXCAVATION OF ANY PIT MAY BEGIN.
- NOT USED
- ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK INCLUDING BUT NOT LIMITED TO: FENCING, CURB AND GUTTER, SIDEWALKS AND WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION OR EXISTING FOUNDATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE APPROPRIATE EXCAVATION PAY ITEM.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX, PULL BOX, AND ALL OTHER ITEMS OF EQUIPMENT. ALL ENCLOSURES SHALL BE EQUIPPED WITH GROUND LUGS FOR GROUND WIRE TERMINATION WITHOUT DEGRADATION OF THE ENCLOSURE RATING.
- THE CONTRACTOR SHALL COORDINATE ALL PROPOSED ELECTRICAL CONNECTIONS, LIGHTING, UNITS, CONTROL EQUIPMENT AND /OR ANY OTHER WORK DEEMED NECESSARY BY THE ENGINEER TO ASSURE THAT ANY FUTURE OR CONCURRENT CONTRACT WORK PROCEEDS AS SCHEDULED AND WITHOUT DELAY. THIS COORDINATION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- ALL JUNCTION BOXES AND PULL BOXES SHOWN ON THE PROPOSED PLANS SHALL BE INSTALLED WITH THE HINGE SIDE UP, SUCH THAT THE BOXES WILL CLOSE BY GRAVITY, UNLESS NOTED OTHERWISE. THE BOX MOUNTING FEET/LUGS SHALL BE COORDINATED WITH THE METHOD OF INSTALLATION INCLUDING RETAINING WALL, PIER COLUMN AND PIER CAP INSTALLATION. THE BOXES SHALL BE INSTALLED ON SPACERS IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS IN ENGLISH STANDARD TRADE SIZES WHERE APPLICABLE.
- NOT USED
- DIRECTIONAL BORE WITH 6" POLY AND DIRECTIONAL BORE WITH 4" POLY FOR COMMONWEALTH EDISON AND COMCAST. SEE THE QUANTITIES PROVIDED IN THE CHART ON SHEET # 33 AND THE COMED ENGINEERING DRAWING FOR REFERENCE ON SHEET # 37.

LIGHTING NOTES:

- THE EXISTING STREET LIGHTING SYSTEM SHALL REMAIN IN OPERATION.
- THE CONTRACTOR SHALL ASSURE THAT ALL TRAVELED PAVEMENT BE LIGHTED DURING NORMAL NIGHT TIME HOURS.
- ELECTRIC CABLE ASSEMBLY PHASE AND NEUTRAL CONDUCTORS SHALL BE RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. JUNCTION BOX SPLICES OR PULL BOX SPLICES UNLESS INDICATED OTHERWISE. SPLICES OF ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS WILL BE PERMITTED ONLY IN HANDHOLES AND CABINETS, UNLESS NOTED OTHERWISE. THIS WORK SHALL BE INCLUDED IN THE ELECTRIC CABLE PAY ITEM SEPARATE PAYMENT WILL NOT BE MADE.

ABBREVIATIONS

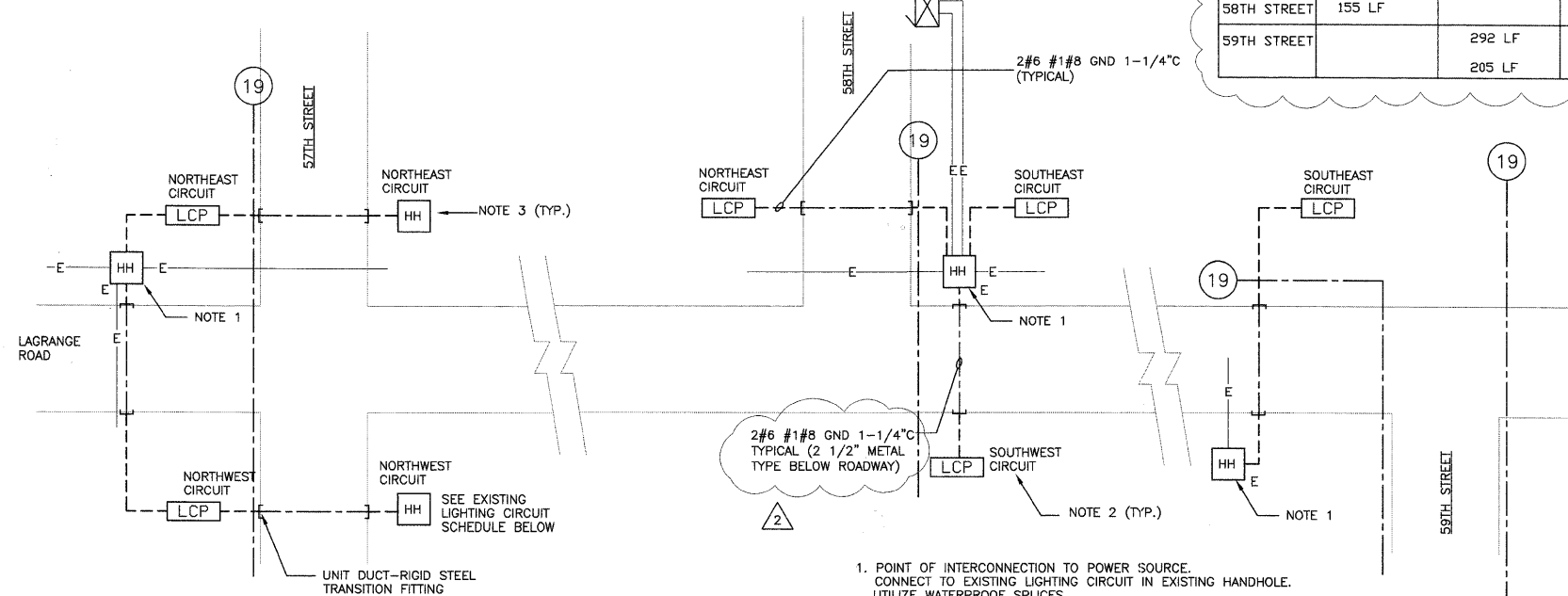
SYMBOL	DESCRIPTIONS
AC	ALTERNATING CURRENT
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CP	CONTROL PANEL
DIA	DIAMETER
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
MH	MOUNTING HEIGHT
NO.	NUMBER
P	PROPOSED
PVCC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RCBP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SS	STAINLESS STEEL
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

LEGEND:

- RIGID GALVANIZED STEEL CONDUIT (RGC) PUSHED SIZE AS INDICATED WITH UNIT DUCT WITHIN
- UNIT DUCT, AS SPECIFIED IN PLANS
- EXISTING UNDERGROUND WIRING TO REMAIN UNLESS OTHERWISE NOTED
- EXISTING UNIT DUCT TO BE ABANDONED
- EXISTING LIGHTING CONTROLLER
- ELECTRIC UTILITY POLE
- LIGHTING FIXTURE
- ADJUSTABLE LIGHTING FIXTURE, ARROW DENOTES AIMING ORIENTATION
- DUPLEX RECEPTACLE WP INDICATES WEATHERPROOF WHILE "IN-USE" GFCI INDICATES GROUND-FAULT CURRENT INTERRUPTER TYPE COVER TO CONFORM WITH NEC #408.8(B)(2)(a) AND UNDERWRITERS LABORATORIES
- LIGHTING CONTROL PANEL
- HANDHOLE

SYSTEM DESCRIPTION

THE ELECTRICAL CONTRACTOR SHALL TAP INTO THE EXISTING VILLAGE STREET LIGHTING CIRCUITS. THE SPLICE SHALL BE MADE IN THE INDICATED EXISTING HANDHOLE. THOSE CIRCUITS SHALL BE EXTENDED TO THE INDICATED STREETSCAPE LIGHTING CONTROL PANEL. THE VILLAGE LIGHTING CONTROL PANEL SHALL HOUSE THE PRIMARY CIRCUIT BREAKER, TRANSFORMER, AND SECONDARY GFCI CIRCUIT BREAKER. THE SECONDARY CIRCUIT BREAKER SHALL FEED ALL STREETSCAPE RECEPTACLES AND LIGHTING FIXTURES.



DIRECTIONAL BORE AND EMPTY CONDUIT REQUIREMENT FOR UTILITIES:

	COMED CONDUIT PUSHED, 6" DIA. PVC.	COMED CONDUIT PUSHED, 4" DIA. PVC.	COMCAST CONDUIT PUSHED, 4" DIA. PVC.
57TH STREET	269 LF		269 LF
58TH STREET	155 LF		155 LF
59TH STREET		292 LF	292 LF
		205 LF	205 LF

LCP SCHEDULE

STREET	LOCATION	MAIN C/B	XFMR (VA)	GFCI SEC. BREAKER	REMARKS	LOAD
57TH	NORTHWEST	30/1	2000	(2)-20A/1P		610W
57TH	NORTHEAST	30/1	2000	(2)-20A/1P	FED FROM NORTHWEST LCP OCT 2 NOTE 2	700W
57TH	SOUTHEAST	NONE			FED FROM NORTHEAST LCP OCT 2 NOTE 2	700W
57TH	SOUTHWEST	NONE				700W
58TH	WEST	20/1	1000	(1)-20A/1P		830W
58TH	NORTHEAST	20/1	1000	(1)-20A/1P		610W
58TH	SOUTHEAST	20/1	1000	(1)-20A/1P		610W
59TH	EAST	20/1	1000	(1)-20A/1P		920W

- ALL TRANSFORMERS SHALL BE 240 V 1φ PRIMARY AND 120 V SECONDARY
- PROVIDE WIRING FROM LCP TO LIGHTING FIXTURES VIA HANDHOLE
- PROVIDE GROUND CONDUCTORS IN ALL CIRCUITS. PROVIDE 2 GROUND RODS PER LCP.
- SEE DETAIL THIS DRAWING.

EXISTING LIGHTING CONTROLLER CIRCUIT SCHEDULE

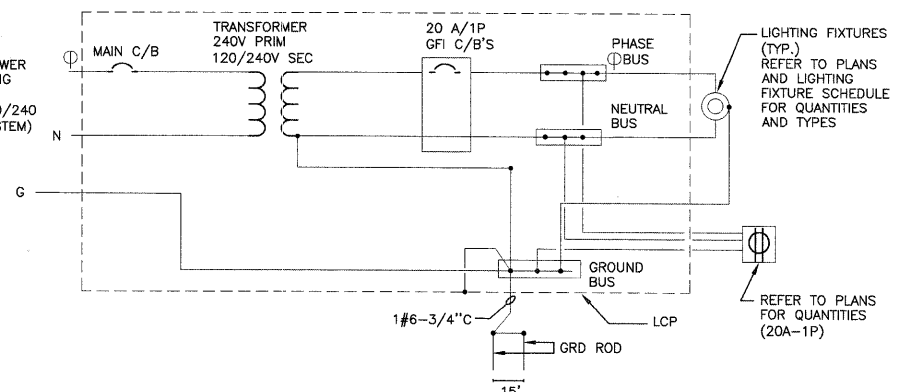
CIRCUIT	NEW LOAD	EXISTING LOAD	TOTAL LOAD	TOTAL LOAD(AMPS)	EXISTING C/B SIZE
NORTHWEST	1310W	2760W	4070W	19	30A/1P
NORTHEAST	2320W	2300W	4620W	21	30A/1P
SOUTHEAST	1530W	3220W	4750W	22	30A/1P
SOUTHWEST	830W	3680W	4510W	21	30A/1P

STREETSCAPE LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE	WATTAGE	DESCRIPTION
M1	45W	IN GRADE METAL HALIDE FIXTURE WATERPROOF CONSTRUCTION. SEE DETAIL.
M2	45W	LANDSCAPE METAL HALIDE
M3	130W	GASKETED METAL HALIDE MOUNTED IN PYLON. SEE ARCHITECTURAL DRAWING #22 AND ELECTRICAL DETAIL. LUMINAIRE SHALL BE APPLETON #LPAL1010-120

NOTE:
ALL STREETSCAPE LIGHTING FIXTURES (M1, M2, M3) SHALL NOT ILLUMINATE TOWARD ROADWAY.

- POINT OF INTERCONNECTION TO POWER SOURCE. CONNECT TO EXISTING LIGHTING CIRCUIT IN EXISTING HANDHOLE. UTILIZE WATERPROOF SPLICES
- REFERS TO EXISTING CIRCUIT DESIGNATION IN EXISTING LIGHTING CONTROLLER.
- ALL LIGHTING AND RECEPTACLES AT THE RESPECTIVE INTERSECTION CORNER SHALL BE CONNECTED TO THE LOCAL LIGHTING CONTROL PANEL



- CIRCUITS BREAKERS SHALL BE BOLT-ON, WITH MECHANICAL LUGS, TRIP RATINGS AS NOTED AND 22,000 AIC.
- SEE LCP SCHEDULE FOR SIZES AND QUANTITIES
- LCP SHALL BE PAD MOUNTED UNLESS NOTED OTHERWISE. PROVIDE CONCRETE HOUSEKEEPING PAD AND OPEN BOTTOM FOR PAD MOUNTED UNITS. PANEL MANUFACTURED BY JEMISON ELECTRIC OR APPROVED EQUAL. PROVIDE VENTILATION LOUVERS AND HANGED TOP.

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED --	REVISED --
		10/13/2008	11/3/2008
		11/3/2008	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STREETSCAPE ELECTRICAL NOTES SYMBOLS AND DIAGRAMS

SCALE: AS NOTED STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00035-00-LS	COOK	42	33
CONTRACT NO. 63059				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TENG

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