



ADDENDUM NO. 1

Date Issued: November 1, 2013
To: All Bidders
Project Name: Capital Area Transportation Authority
New Lighting & Fencing
Project Number: 0941.6302.00
ITB Number: 2013-127
Subject: This Addendum is issued to clarify and revise the construction documents dated August 15, 2013 as follows:

General:

Item 1 – The project ITB Number has been adjusted to 2013-127. Please mark all correspondence accordingly.

Item 2 – Contractor Questions:

- Q: Please clarify the lighting scope for the project. The fixture schedule still indicates alternate lighting fixtures; however the Bid Form does not indicate any alternates. How shall we submit the bid for this project?
- A: It was the intent of this solicitation to omit all alternates and to proceed with the upgraded light fixtures as the base bid. Please reference the revised and reissued E1.0 & E2.0.
- Q: Will access control systems and infrastructure be included in this solicitation?
- A: No. A separate solicitation will be issued in upcoming weeks for these portions of work. Bidders shall include with this solicitation all labor and materials to provide complete and operable systems, which are not inclusive of access control systems.

Drawings:

Item 1 – Sheet E1.0 (Reissued): Lighting Fixtures – HA & HB and Light Pole HB have been deleted in correlation with clarifying the bidding requirements.

ACKNOWLEDGMENT: Two copies of this Addendum, properly signed in the space provided below, must be acknowledged and returned with the bidder's proposal for submission of a valid proposal. The changes and information shall become part of the contract documents.

Firm Name Bidder's Signature Date

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ELECTRICAL SPECIFICATIONS

DESCRIPTION OF WORK
 WORK SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
 1. WIRING METHODS.
 2. FUSED SWITCHES.
 3. DEVICES.
 4. PANELS

STANDARDS
 MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF NEC, NIOSHA, NFPA, UL, NEMA, A.D.A. AND RESPECTIVE PUBLICATIONS AND OTHER REQUIREMENTS SPECIFIED BELOW. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.

CODES AND ORDINANCES
 COMPLY WITH ALL CODES AND ORDINANCES. BIDDERS SHALL INFORM THEMSELVES OF CODE REQUIREMENTS.

PERMITS, INSPECTION FEES, AND CODES
 THE CONTRACTOR SHALL OBTAIN AND PAY ALL PERMIT AND INSPECTION FEES. FINAL INSPECTION CERTIFICATES BY THE LOCAL ELECTRICAL INSPECTOR AND FIRE MARSHAL SHALL BE OBTAINED BY THE CONTRACTOR AND TURNED OVER IN DUPLICATE TO THE OWNER.

SUBMISSIONS
 SUBMIT PRODUCT DATA, SHOP DRAWINGS, WIRING DIAGRAMS, AND DESCRIPTIVE LITERATURE ON ALL MATERIALS AND EQUIPMENT. MAKE SUBMITTALS WITHIN THIRTY (30) DAYS AFTER THE SIGNING OF THE CONTRACT. SHIPMENT SHALL NOT BE RELEASED UNTIL DRAWINGS AND LITERATURE HAVE BEEN FINALLY APPROVED.

AS-BUILTS - OPERATION & MAINTENANCE MANUALS
 PROVIDE FOR EACH SYSTEM AND EQUIPMENT AS SPECIFIED FOR USE BY OPERATION AND MAINTENANCE PERSONNEL. THE OPERATING INSTRUCTIONS SHALL INCLUDE:
 • WIRING DIAGRAMS, CONTROL DIAGRAMS, AND CONTROL SEQUENCE FOR EACH SYSTEM AND ITEM OF EQUIPMENT.
 • START-UP, PROPER ADJUSTMENT, OPERATING, LUBRICATION, AND SHUT-DOWN PROCEDURES.
 • SAFETY PRECAUTIONS
 • THE PROCEDURE IN THE EVENT OF EQUIPMENT FAILURE
 • OTHER ITEMS OF INSTRUCTION AS RECOMMENDED BY THE MANUFACTURER OF EACH SYSTEM OR ITEM OF EQUIPMENT.

IDENTIFICATION OF SYSTEMS
 OPERATING INSTRUCTIONS, PRINT OR ENGRAVE INSTRUCTIONS AND FRAME UNDER GLASS OR APPROVED LAMINATED PLASTIC. POST INSTRUCTIONS IN VIEW OF EQUIPMENT. PROVIDE WEATHER RESISTANT MATERIALS FOR EXTERIOR APPLICATIONS.

EQUIPMENT: PROVIDE NAMEPLATE FOR ALL EQUIPMENT IT SHALL BE A SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. PROVIDE ADHESIVE BACK, WITH WHITE LETTERS ON A DARK GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8-INCH.

WARNING SIGNS: PROVIDE A SELF-ADHESIVE WARNING LABEL THAT IS FACTORY PRINTED, MULTI-COLOR, PRESSURE SENSITIVE, ADHESIVE LABEL. COMPLY WITH NEC 10 AND 29 CFR 1910.145. LABELS FOR MULTIPLE POWER SOURCES SHALL READ: "DANGER - ELECTRICAL SHOCK HAZARD - EQUIPMENT HAS MULTIPLE POWER SOURCES". LABELS FOR ALL OTHER EQUIPMENT REQUIRING WORK SPACE CLEARANCES SHALL READ: "WARNING - OSHA REGULATION - AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36-INCHES".

GUARANTEE
 PROVIDE GUARANTEE FOR ALL LABOR AND MATERIALS FOR ONE (1) YEAR AFTER OWNER'S WRITTEN ACCEPTANCE OF THE PROJECT.

LAYOUT OF THE WORK
 EXAMINE THE SITE AND ALL THE DRAWINGS BEFORE PROCEEDING WITH THE LAYOUT AND INSTALLATION OF THIS WORK. LOCATE ESSENTIALLY AS SHOWN ON THE DRAWINGS, BUT IN EXACT LAYOUT DETERMINED ON THE JOB, TO SUIT ACTUAL CONDITIONS. CONFER AND COOPERATE WITH OTHER TRADES ON THE JOB SO ALL PARTS WILL BE INSTALLED IN PROPER RELATIONSHIP. PRECISE LOCATION OF PARTS TO COORDINATE WITH OTHER WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

DEMOLITION
 CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIAL AS INDICATED ON THE DEMOLITION PLAN. EXISTING CONDUIT HOMERUNS MAY BE REUSED WHENEVER POSSIBLE. CONTRACTOR SHALL PATCH EXISTING WALL AND CEILING OPENINGS IN FINISHED AREAS UPON REMOVAL OF ELECTRICAL EQUIPMENT. CONTRACTOR SHALL ALSO PROTECT ALL EXISTING ELECTRICAL EQUIPMENT TO REMAIN DURING CONSTRUCTION PERIOD.

COORDINATION
 CONTRACTOR SHALL MAINTAIN POWER TO FACILITY DURING CONSTRUCTION. IF A POWER OUTAGE IS REQUIRED FOR CONSTRUCTION, CONTRACTOR SHALL COORDINATE TIME WITH OWNER A MINIMUM OF 5-DAYS PRIOR TO SHUT-DOWN. ALL SHUT-DOWNS SHALL BE AFTER-HOURS AND ON WEEKENDS.

CUTTING AND PATCHING
 ALL NECESSARY CUTTING OF THE BUILDING CONSTRUCTION FOR THE NEW INSTALLATION OF THE WORK SHALL BE FURNISHED BY THE CONTRACTOR. NO STRUCTURAL MEMBERS OF THE BUILDING SHALL BE CUT WITHOUT PRIOR APPROVAL OF THE ARCHITECT. ALL NECESSARY PATCHING OF THESE SURFACES TO BE FURNISHED BY THIS CONTRACTOR.

WIRE AND CABLE
 ALL WIRING SHALL STRANDED COPPER AND INSTALLED IN CONDUIT, TUBING, OR SURFACE METALLIC RACEWAY. CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OF JUNCTION BOXES WITH SPLICES MADE ONLY WITHIN SUCH BOXES. SOLDERLESS PRESSURE-TYPE CONNECTORS PROPERLY INSULATED SHALL BE USED FOR ALL JOINTS. NO WIRE SMALLER THAN #2 MAY BE USED UNLESS SPECIFICALLY SPECIFIED UNDER DESCRIPTIONS OF SPECIAL SYSTEMS.

CONDUIT
 ALL CONDUIT SHALL BE 1/2-INCH MINIMUM UNLESS NOTED OTHERWISE. WIRING METHODS:
 • EXTERIOR EXPOSED AND CONCEALED: RGC,
 • UNDERGROUND: FVC SCHEDULE 40,
 • INTERIOR EXPOSED/CONCEALED UNDER 2-INCHES: EMT,
 • INTERIOR EXPOSED/CONCEALED 2-INCHES AND LARGER: RGC.

KEEP RACEWAYS AT LEAST 6-INCHES FROM PARALLEL RUNS OF FLUES, STEAM AND HOT WATER PIPING. INSTALL HORIZONTAL CONDUIT RUNS ABOVE WATER AND STEAM PIPING. INSTALL RACEWAYS LEVEL AND SQUARE AND AT PROPER ELEVATIONS. PROTECT STUB UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS AND ARRANGE SO CURVED PORTION OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB. INSTALL RACEWAYS IN MIDDLE THIRD OF SLAB WITH MINIMUM OF 1-INCH CONCRETE COVER. SECURE RACEWAYS TO REINFORCING RODS TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT. SPACE RACEWAYS LATEROALLY TO PREVENT VOIDS IN CONCRETE. RUN CONDUIT LARGER THAN 1-INCH TRADE SIZE PARALLEL TO OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.

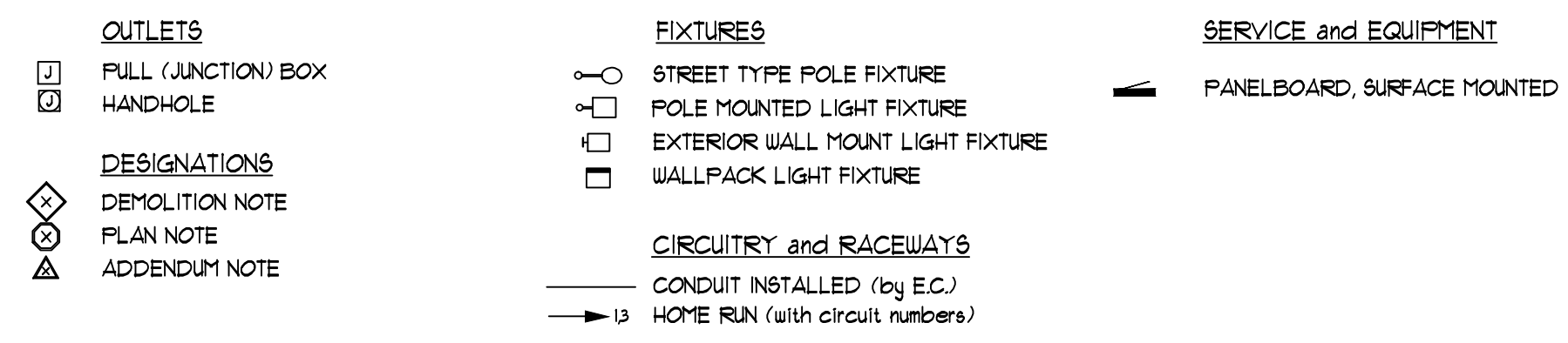
ELECTRICAL SERVICE
 SERVICE IS EXISTING.

GROUNDING
 ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN A MANNER APPROVED BY THE LOCAL INSPECTOR.

SUPPORTS AND HANGERS
 PROVIDE AND INSTALL NECESSARY STEEL BRACKETS, RODS, CLAMPS, ETC, FOR SUPPORT OF ALL WORK UNDER THIS CONTRACT.

END OF DIVISION 26

ELECTRICAL SYMBOLS LEGEND



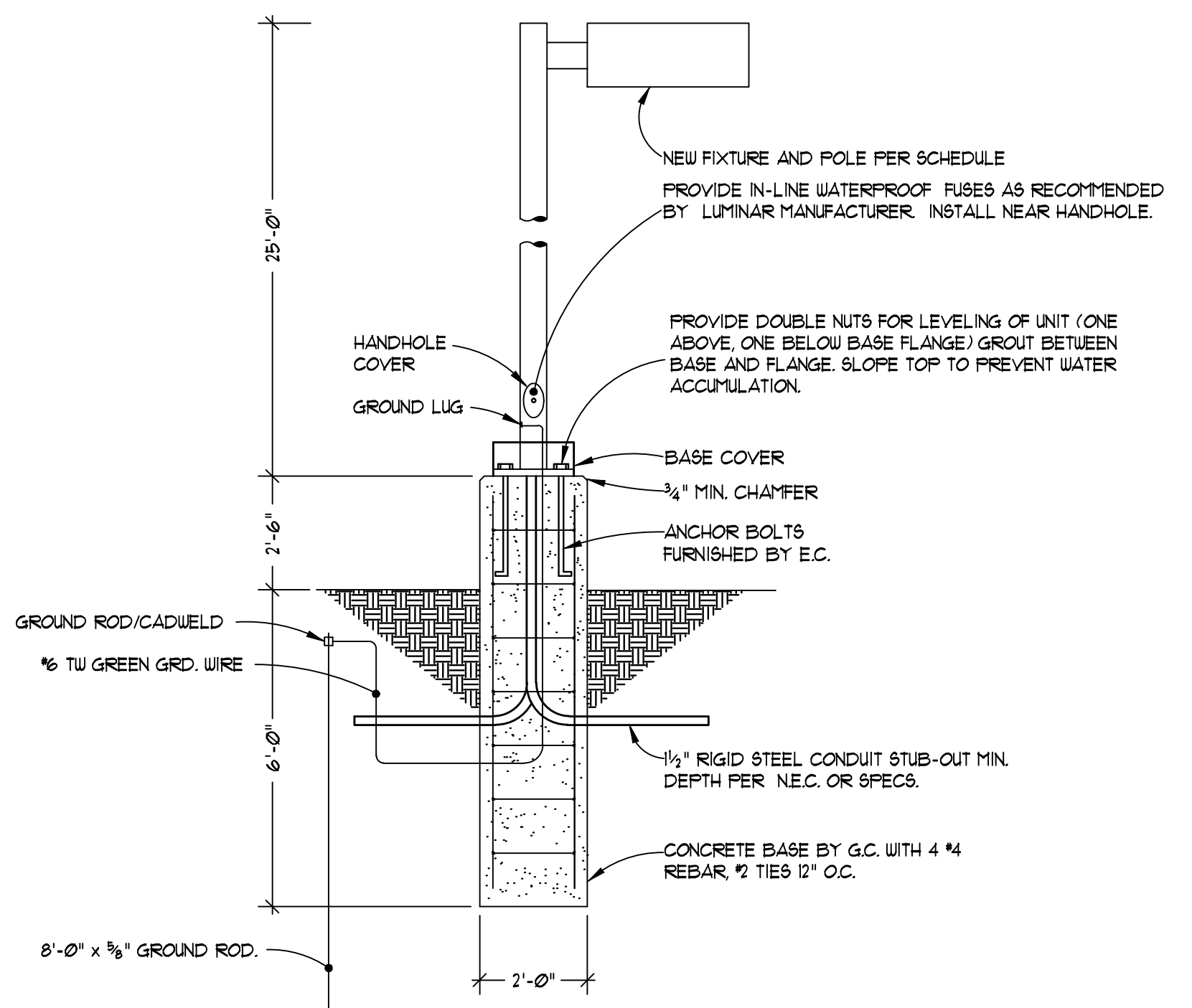
ABBREVIATIONS LEGEND

BLDG	BUILDING	F	POLE
CND (C)	CONDUIT	FB	FULL BOX
CKT	CIRCUIT	PNL	PANEL
EC	ELECTRICAL CONTRACTOR	RECEPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	RGC	RIGID GALVANIZED STEEL CONDUIT
EXIST (E)	EXISTING	SPEC	SPECIFICATIONS
GND	GROUND	UNO	UNDERWRITERS' LABORATORIES, INC. UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	V	VOLTS
IMC	INTERMEDIATE METAL CONDUIT		
JB	JUNCTION BOX		
LTG	LIGHTING		
MTD	MOUNTED		

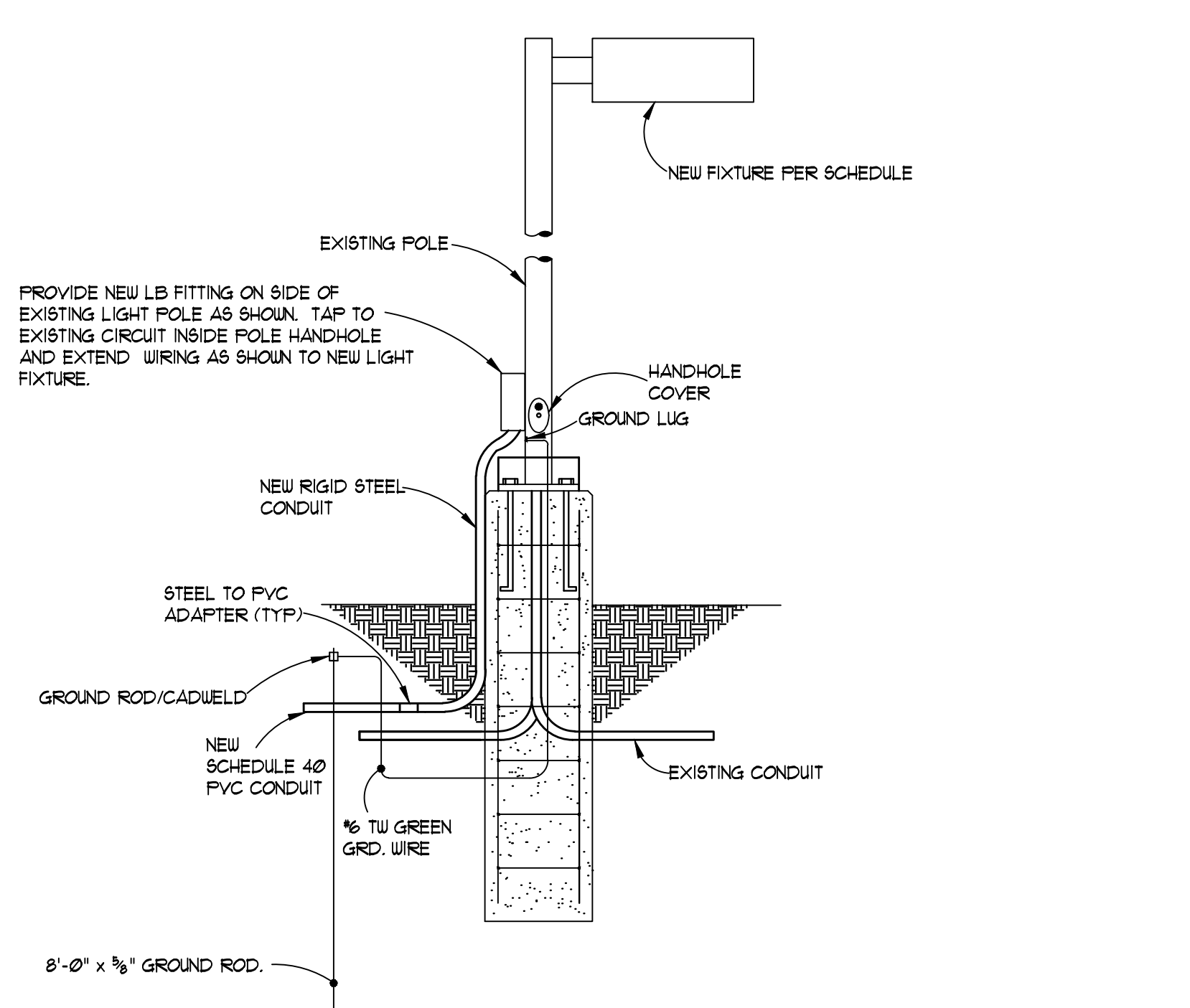
GENERAL ELECTRICAL NOTES

- ALL WALL AND FLOOR PENETRATIONS ARE TO BE SEALED TO MAINTAIN ORIGINAL RATING.
- ALL CONDUITS TO BE FIELD ROUTED ALONG EXISTING PIPING AND STRUCTURAL STEEL.
- THE DIVISION 26 CONTRACTORS SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
- REMOVE ALL EXISTING OBSOLETE EXPOSED CONDUIT, WIRE AND UNUSED EQUIPMENT WHERE WORK IS BEING DONE EXCEPT ITEMS NOTED OTHERWISE.
- WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SURFACES SHALL BE PATCHED TO MATCH ADJACENT.
- EXISTING WORK WHICH IS PRESENTLY CONCEALED AND WHICH WILL REMAIN CONCEALED AND DOES NOT INTERFERE WITH ANY NEW WORK OF ANY TRADE NEED NOT BE REMOVED, HOWEVER, ALL CONDUIT SHALL BE CAPPED BELOW FINISH SURFACE AND THEN PATCHED TO MATCH, OR AS NOTED.
- EXISTING OPENINGS, WHICH ARE TO BE REUSED, SHALL BE MODIFIED OR ENLARGED TO SUIT THE NEW SYSTEMS AS REQUIRED. PROVIDE ALL REQUIRED CUTTING AND PATCHING.
- IF ASBESTOS IS PRESENT, IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPARATE CONTRACT BY THE OWNER.
- THE DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING THE EXISTING WALLS TO MATCH THE ADJACENT SURFACES BEHIND ALL SURFACE MOUNTED EQUIPMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES AND LOADS PRIOR TO INSTALLING SERVICE TO EQUIPMENT.
- DRAWINGS ARE BASED ON EXISTING RECORD DOCUMENT AND CASUAL FIELD OBSERVATION. REPORT ANY DISCREPANCIES TO ENGINEER FOR CLARIFICATION.

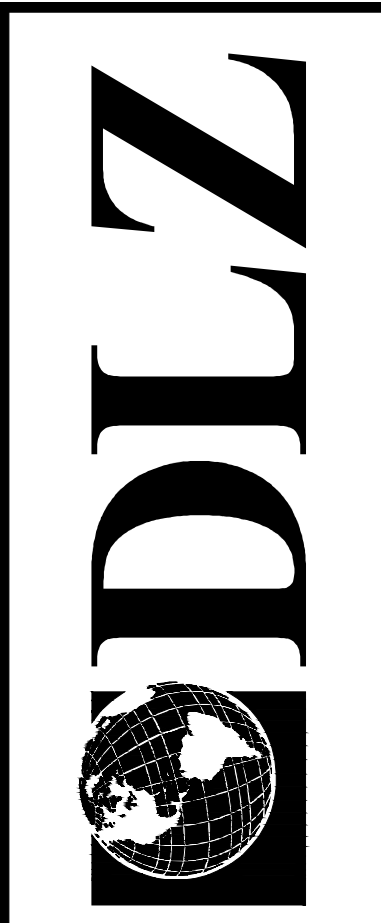
LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION AND COMMENTS	BALLAST INFO	FIXTURE MOUNTING HEIGHT	LAMPS
HA	LITHONIA WIDELITE LUMARK SFAULDING	KAD-250M-562-2T1-UBD04-SF 4-14250-2H-2T1-UB-FI-DB MFT-25-40-DM9-DDB CMI-UBA5-P25-H2-F-Q-DB	EXTERIOR WALL MOUNT FIXTURE. PROVIDE TYPE II DISTRIBUTION. 4-INCH WALL BRACKET, RISE AND DARK BRONZE FINISH.	SUPER 3UVA PULSE START	25 FEET ABOVE GRADE	250W MH
HB	LITHONIA WIDELITE LUMARK SFAULDING	KAD-400M-5R4C-2T1-5PD04-SF AL3P400-4H-2T1-55-FI-DB MFT-45-400-2T1-FI CMI-AS-P40-H4-F-Q-DB	EXTERIOR POLE MOUNT FIXTURE. PROVIDE TYPE IV DISTRIBUTION.	SUPER 3UVA PULSE START	27'-6" ABOVE GRADE	400W MH
HC	LITHONIA WIDELITE LUMARK SFAULDING	KAD-400M-5R4C-2T1-5PD04-SF AL3P400-4H-2T1-55 MFT-45-400-2T1-FI CMI-AS-P40-H4-F-Q-F4-H8-DB	EXTERIOR POLE MOUNT FIXTURE. PROVIDE TYPE IV DISTRIBUTION.	SUPER 3UVA PULSE START	27'-6" ABOVE GRADE	400W MH
HD	WIDELITE MCGRAW EDISON LITHONIA SFAULDING	AL4P-1000-3F-QV-55-FI-TDB TLL-1000-MH-2T1-FG-FG-BZ-L KV2-1000M-5R2FL-2T1-5P CMI-AS-PK-H2P-F-Q-DB-4(2T1)	EXTERIOR POLE MOUNT FIXTURE. PROVIDE TYPE II DISTRIBUTION.	SUPER 3UVA PULSE START	30'-6" ABOVE GRADE	1000W MH
HE	WIDELITE MCGRAW EDISON LITHONIA SFAULDING	AL4P-1000-4F-2T1-55-FI-TDB TLL-1000-MH-2T1-4F-FG-BZ-L-MA1010-BZ KV2-1000M-5R4UFL-2T1-5P CMI-AS-PK-H4P-F-Q-DB-4(2T1)	EXTERIOR POLE MOUNT FIXTURE. PROVIDE TYPE IV DISTRIBUTION.	SUPER 3UVA PULSE START	30'-6" ABOVE GRADE	1000W MH
LA	MCGRAW EDISON GARCO LITHONIA SFAULDING	GLEON-AA-03-LED-EI-T2-BZ-UM EQ-1-1-2-15LA-6410-NUNV-BRP CLI-A-30L-U-4K-2-DB-UB-F4 DSX1-LED-60C-100-40K-T25-2T1-UBA-SF-DDBXD	EXTERIOR WALL MOUNT FIXTURE. PROVIDE TYPE II DISTRIBUTION.		25-FEET ABOVE GRADE	13,481 LUMEN 13W 10 CRI 4000K LED
LB	MCGRAW EDISON GARCO LITHONIA SFAULDING	GLEON-AA-05-LED-EI-T4-BZ-UM EQ-1-1-2-15LA-6410-NUNV-BRP CLI-A-30L-U-4K-2-DB-UB-F4 DSX1-LED-60C-1000-T4M-2T1-5PA-SF-DDBXD	EXTERIOR POLE MOUNT FIXTURE. PROVIDE TYPE IV DISTRIBUTION.		27'-6" ABOVE GRADE	18,205 LUMEN 203W 10 CRI 4000K LED
LB	LITHONIA LYTEPOLES HARCO SFAULDING	555-25-4G-DM9-DDB 101-5201-25-DB 55525D4-4-1-0-BM 555-25-40-TAX-DB	25-FT SQUARE STRAIGHT STEEL DARK BRONZE POLE. PROVIDE HAND HOLE COVER PLATES.			



1 NEW POLE BASE DETAIL
 SCALE: N.T.S.



2 EXISTING POLE BASE DETAIL
 SCALE: N.T.S.

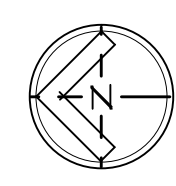
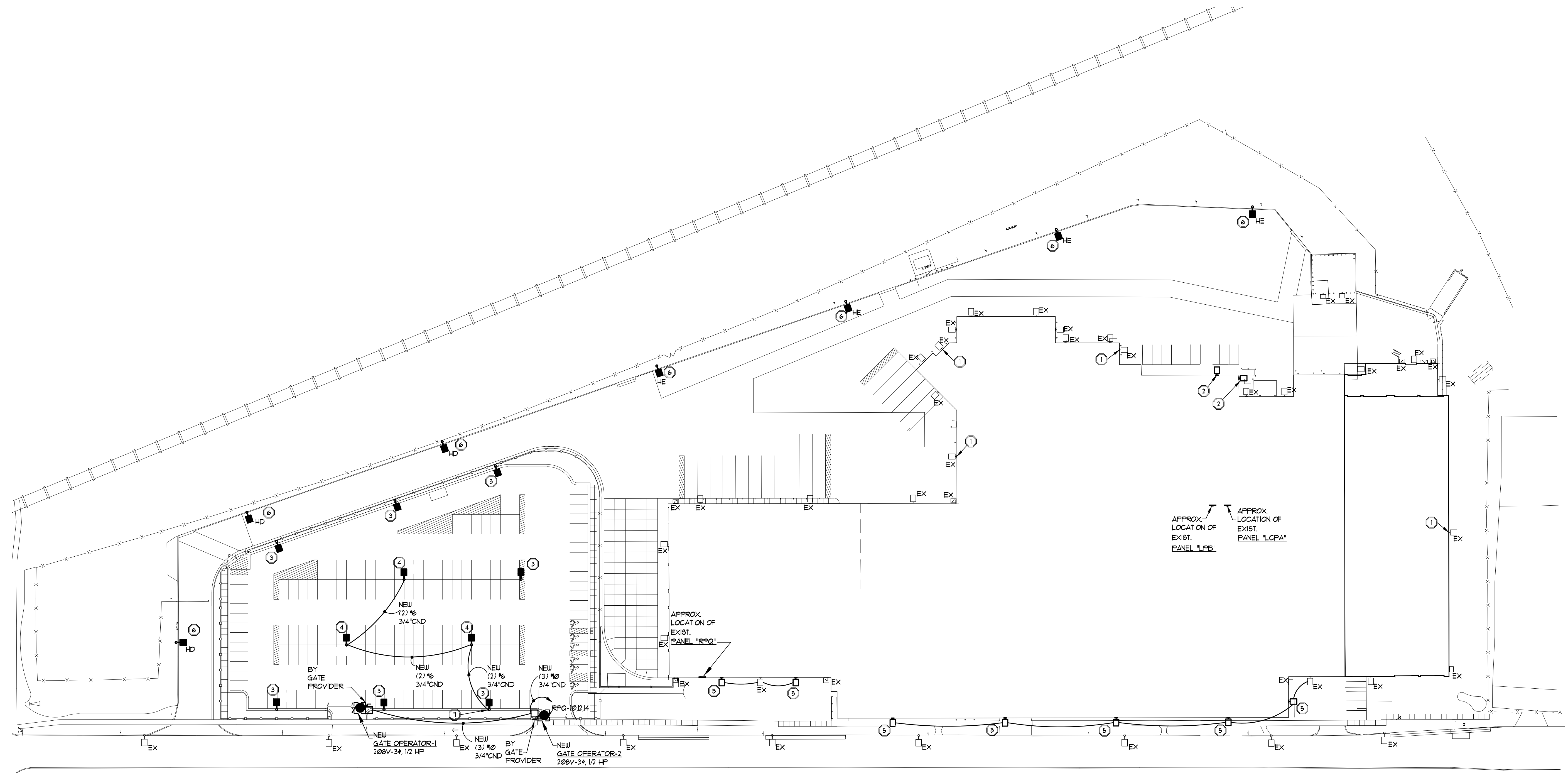


DATE	
BY	
DESCRIPTION	
REVISIONS:	

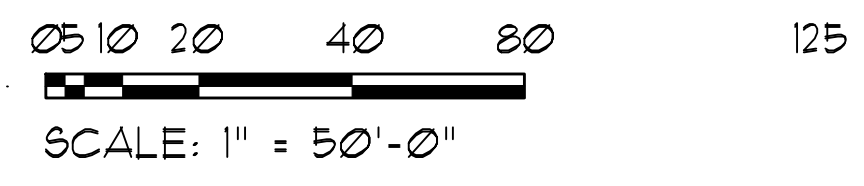
DRAWN: AJB	CHK'D: JFS
DESIGNED: AJB	APPROV'D: JFS
DATE: AUGUST 15, 2013	SCALE: AS SHOWN
PROJECT NUMBER	0941.6302.00

LANSING MICHIGAN
CAPITAL AREA TRANSPORTATION AUTHORITY
NEW LIGHTING & FENCING
SPECIFICATIONS, DETAILS

SHEET	5
OF	6
DRAWING NUMBER	E1.0

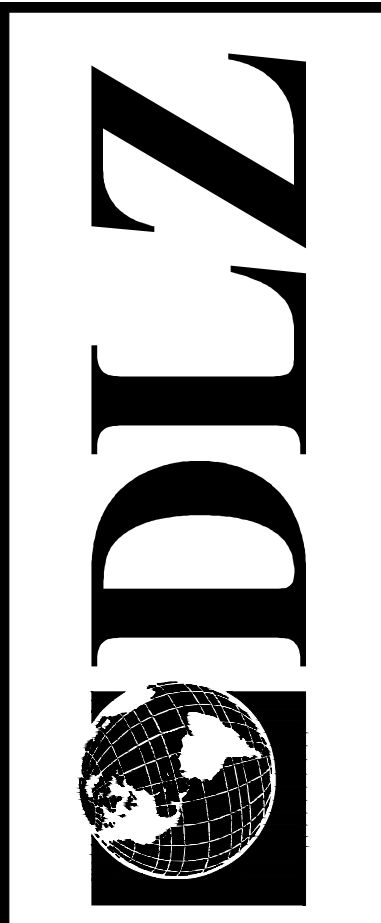


SITE PLAN ELECTRICAL



ELECTRICAL KEY NOTES

- 1 CONTRACTOR SHALL REPAIR EXISTING WALL MOUNTED LIGHT FIXTURES.
- 2 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. PROVIDE NEW WALL MOUNTED LIGHT FIXTURE TYPE "LA". RE-USE EXISTING CONDUIT AND WIRE.
- 3 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING POLE MOUNTED LIGHT FIXTURE. PROVIDE NEW POLE MOUNTED LIGHT FIXTURE TYPE "LB". EXISTING POLE AND BASE TO REMAIN. RE-USE EXISTING CONDUIT AND WIRE.
- 4 CONTRACTOR SHALL PROVIDE NEW POLE MOUNTED LIGHT FIXTURE TYPE "LB". CONNECT TO EXISTING POLE LIGHTING CIRCUIT.
- 5 CONTRACTOR SHALL PROVIDE NEW WALL MOUNTED FIXTURE TYPE "LA". CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT.
- 6 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING POLE MOUNTED LIGHT FIXTURE. PROVIDE NEW LIGHT FIXTURE AS SHOWN. EXISTING POLE AND BASE TO REMAIN. RE-USE EXISTING CONDUIT AND WIRE.
- 7 REFER TO POLE DETAIL #2 SHEET E10.



DATE	
BY	
DESCRIPTION	
REVISIONS:	
DRAWN: AJB	CHK'D: JFS
DESIGNED: AJB	APPROV'D: JFS
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MICHIGAN
 LANSING
 CAPITAL AREA TRANSPORTATION AUTHORITY
 NEW LIGHTING & FENCING
 SITE PLAN

SHEET	6
OF	6
DRAWING NUMBER	E2.0