

CITY OF GREENVILLE

GREENVILLE, NORTH CAROLINA

PUBLIC WORKS SITE LIGHTING PHASE 2

ITB 24-25-16

TEG PROJECT NO. 20240196

ISSUE FOR BID OCTOBER 4, 2024

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TITLE/ GENERA

TITLE SHEE

ELECTRI

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- THIS PROJECT REQUIRES THE INSTALLATION OF:
- CONCRETE FOUNDATION & POLE MOUNTED AREA LIGHTING FIXTURES UNDERGROUND CONDUITS VIA OPEN CUT TRENCH
- UNDERGROUND CONDUITS VIA DIRECTIONAL BORE
- GROUND MOUNTED PULL BOXES
- 208VAC CIRCUITING FROM A NEARBY BUILDING'S POWER PANEL TO OUTSIDE LIGHT POLE LOCATION CONCRETE PAVEMENT REMOVABLE AND REPLACEMENT
- LANDSCAPE REMOVABLE AND REPLACEMENT
- CONTRACTOR SHALL PROVIDE POLE FOUNDATIONS, LIGHT FIXTURES, LIGHT POLES, PULL BOXES, ELECTRICAL POWER CIRCUITING, ETC. AS CALLED OUT IN THIS DRAWING PACKAGE FOR THE INSTALLATION OF THE SITE
- PROJECT REQUIRES THE INSTALLATION OF UNDERGROUND CONDUITS VIA DIRECTIONAL BORING AT LOCATIONS INDICATED ON THE DRAWINGS. CUTTING ASPHALT OR CONCRETE IN ANY AREA IS NOT PERMITTED. TRENCHING IS ALLOWED IN ALL OTHER AREAS.
- AT EACH GROUND MOUNTED PULL BOX, PROVIDE MINIMUM OF 1'-0" DEPTH OF #57 STONE BELOW BOTTOM OF GROUND MOUNTED PULL BOX. EXTEND STONE MINIMUM OF 1'-0" BEYOND ALL SIDES OF PULL BOX.
- PROVIDE AND INSTALLED CONDUIT SEALS AT ALL GROUND MOUNTED PULL BOXES. SEE MISCELLANEOUS EQUIPMENT SCHEDULE.
- ALL WIRING SPLICES SHALL BE WITHIN EACH LIGHTING FIXTURE HAND HOLE. WIRE SPLICING INSIDE GROUND MOUNTED PULL BOX IS NOT ALLOWED. PROVIDE MINIMUM 2'-0" OF UNSPLICED WIRE LOOPED IN GROUND
- EC SHALL ROUTE WIRE AND CONDUIT OF INDICATED SIZE TO THE BASE OF EACH LIGHTING FIXTURE POLE AS INDICATED. EC SHALL ROUTE 2 #10, 1 #10 GND FROM THE BASE OF THE POLE TO EACH POLE MOUNTED LIGHT FIXTURE. EC SHALL PROVIDE AND INSTALLED FUSE HOLDERS AND 5A TIME DELAY FUSE IN EACH UNGROUNDED CONDUCTOR AND WITHIN HAND HOLE FOR EACH POLE MOUNTED FIXTURE. KEEP SPLICES TO A MINIMUM AND ACCESSIBLE TO THE HAND HOLE. PROVIDE TWO NEW SPARE FUSES PER INSTALLED LIGHT FIXTURE AND TURN
- 10. AT A MINIMUM, THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL:
- PANELBOARD, CIRCUIT BREAKERS, ENCLOSURE, ETC.
- CONDUITS: RMC/IMC/EMT/PVC CONDUITS, FITTINGS, GLUE ETC.
- DIRECTIONAL BORE CONDUIT, INNER DUCT, PULL STRING, ETC. OUTLET DEVICES: BOXES, RECEPTACLES, SWITCHES, COVER PLATES, ETC.
- LIGHTING FIXTURES, MOTION DETECTOR, CONTROL DEVICES, POLE, PHOTOCELL, ETC.
- PULL/JUCNTION BOX, ETC
- PULL STRING, TRACER WIRE, WARNING TAPE, ETC.
- MOUNTING SUPPORTS, UNISTRUT SUPPORTS, ETC. GROUND MOUNTED PULL BOX
- LANDSCAPING: PLANTS/SEED/SOD/MULCH
- CONCRETE MIX RFRAR
- GROUND ROD

MISC., ETC.

FUSE HOLDER, FUSES, ETC.

ELECTRICAL GENERAL NOTES

- EC SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT AND NATURE OF THE WORK REQUIRED. ANY DIFFICULTIES IN COMPLYING WITH THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO SUBMITTING A
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL WORK WITHIN THE INTENT OF, AND AS INDICATED ON, THE DRAWINGS AND AS HEREIN SPECIFIED.
- CONTRACTOR'S QUALIFICATIONS: IT IS ASSUMED THE CONTRACTOR HAS HAD SUFFICIENT GENERAL KNOWLEDGE AND EXPERIENCE TO ANTICIPATE THE NEEDS OF CONSTRUCTION OF THIS NATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS REQUIRED TO COMPLETE THE CONSTRUCTION IN ACCORDANCE WITH REASONABLE INTERPRETATION OF THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- THE DESIGN CONTAINED IN THE CONTRACT DOCUMENTS IS BASED ON EQUIPMENT BY SPECIFIC MANUFACTURERS. SUBSTITUTION REQUESTS BY THE EC MAY ONLY BE MADE PRIOR TO SUBMITTING A BID AND WILL BE REVIEWED AT THE DISCRETION OF THE ENGINEER. WHEN ANY EQUIPMENT IS PROVIDED BY MANUFACTURERS OTHER THAN THOSE SPECIFIED, THE EC SHALL BE RESPONSIBLE FOR VERIFYING THAT SUCH EQUIPMENT WILL MEET THE DESIGN INTENT (DIMENSIONS, CAPACITIES, ELECTRICAL REQUIREMENTS, ETC.). ANY ADDITIONAL COSTS ASSOCIATED WITH PROVIDING SUCH EQUIPMENT, INCLUDING BUT NOT LIMITED TO INCREASING THE CAPACITY OF ELECTRICAL SERVICES (DISCONNECTS, BREAKERS, WIRING, CONDUIT, ETC.), INCREASING HOUSEKEEPING PAD SIZES, PROVIDING ADDITIONAL STRUCTURAL SUPPORT OR INSTALLATION OF EQUIPMENT IN DIFFERENT LOCATIONS THAN INDICATED ON THE DRAWINGS SHALL BE INCLUDED IN THE EC'S BID.
- EC SHALL OBTAIN FOR ALL PERMITS, INSPECTIONS, TESTS, ETC. AS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK. PERMITS WILL BE AT NO COST FROM THE CITY.
- EC SHALL COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES. NO ALLOWANCES WILL BE MADE ON THE EC'S BEHALF FOR FAILURE TO COORDINATE WITH OTHER TRADES. ANY COORDINATION CONFLICTS WHICH ARISE SHALL BE IMMEDIATELY REPORTED TO THE GC AND OWNER'S REPRESENTATIVE.
- EC SHALL BE RESPONSIBLE FOR ALL SAW-CUTS, CORE-DRILLS, AND PENETRATIONS. EC SHALL PATCH FLOORS, WALLS, PARTITIONS, CEILINGS, ROOFS, AND OTHER SURFACES AS REQUIRED TO RESTORE TO INITIAL CONDITIONS FOR CONDUIT OR OTHER INSTALLATIONS.
- . EC SHALL SEAL ALL PENETRATIONS THROUGH NEW AND EXISTING WALLS, FLOORS, ROOFS, CHASES, ETC. DUE TO ANY DEMOLITION OR NEW WORK IN ORDER TO MAINTAIN THE INTEGRITY OF THE SYSTEM (SMOKE RATED, SMOKE PARTITIONS, FIRE RATED, ETC.).
- WHERE AN EXISTING DEVICE IS TO BE REMOVED: EC SHALL PATCH AND PAINT WALLS, CEILING, FLOOR, ETC. TO MATCH ADJACENT SURFACE AND TEXTURE. REPLACE CEILING TILE WITH NEW TO MATCH EXISTING.
- 10. EC SHALL PROVIDE APPROPRIATE SEALING WITH APPROVED MATERIAL WHERE RACEWAY PASSES FROM INTERIOR TO EXTERIOR OF A BUILDING.
- EC SHALL PROVIDE AND INSTALL ALL PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT & DEVICES. LABEL SHALL INDICATE PANEL AND CIRCUIT NUMBER SUPPLYING POWER TO THE DEVICE. EC SHALL PROVIDE REQUIRED SIGNS FOR PANELS, SWITCHGEAR, STARTERS, VFDS, AND ETC. NAMEPLATES TO BE MECHANICALLY SECURED WITH NON-FEROUS FASTENERS.
- 12. ALL AFF DIMENSIONS ARE REFERENCED TO CENTER OF EQUIPMENT/DEVICE UNO.
- 5. UPON MODIFICATION OR CONNECTION TO EXISTING SYSTEMS, POWER AND/OR SECONDARY SYSTEMS SHALL NOT BE INTERRUPTED WITHOUT PRIOR CONSENT OF OWNER AND A DEFINITE UNDERSTANDING OF THE DURATION OF THE OUTAGE.
- ALL CONDUCTORS SHALL BE INSULATED COPPER UNLESS NOTED OTHERWISE. CONDUCTORS #10 AND SMALLER SHALL BE SOLID; CONDUCTOR #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTOR'S SHALL BE THWN-2 OR XHHW-2, 90° C RATED.
- ALL 208Y/120V POWER WIRING INSULATION SHALL BE COLOR CODED (NO EXCEPTIONS). PHASE A-BLACK; PHASE B-RED; PHASE C-BLUE; NEUTRAL-WHITE; TRAVELERS-PURPLE; AND GROUNDING CONDUCTORS-GREEN. COLOR CODED TAPE NOT ALLOWED.
- ALL 480Y/277V POWER WIRING INSULATION SHALL BE COLOR CODED (NO EXCEPTIONS). PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW; NEUTRAL-GRAY; TRAVELERS-PURPLE; AND GROUNDING CONDUCTORS-GREEN. COLOR CODED TAPE NOT ALLOWED.
- INSIDE CONDUITS SHALL BE EMT, IMC, OR RMC. CONNECTIONS TO VIBRATING EQUIPMENT SHALL BE LFMC.
- 18. OUTSIDE ABOVE GROUND CONDUITS SHALL BE RMC. CONNECTIONS TO VIBRATING EQUIPMENT SHALL BE LFMC.
- 19. CONDUITS MOUNTED 8'-0" AFF OR LESS. WHERE SUBJECT TO PHYSICAL DAMAGE, THE PORTION OF CONDUIT MOUNTED BELOW 8'-0" AFF SHALL BE RMC.

ELECTRICAL GENERAL NOTES - CONTINUED

- 20. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 80 ONLY.
- . UNDERGROUND DIRECTIONAL BORING CONDUIT (POWER): UNDERGROUND DIRECTIONAL BORING CONDUIT SHALL BE HDPE, GRAY IN COLOR. 2 INCH IN DIAMETER AND SMALLER SHALL BE SCHEDULE 40. LARGER THAN 2 INCH IN DIAMETER SHALL BE SCHEDULE 80. DIRECTION BORE SHALL BE 8' TO 10' BELOW GRADE TO PASS BENEATH ALL EXISTING UTILITIES. MAINTAIN A MINIMUM OF 3'-0" CLEARANCE BELOW EXISTING UTILITIES.
- 22. UNDERGROUND PVC CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 36" BELOW FINISHED GRADE WITH DETECTABLE BURIAL TAPE. CHANGE FROM PVC TO RIGID GALVANIZED STEEL CONDUIT WITHIN 1'-6" FROM TURNING UP AT ANY LOCATION. ALL EXCAVATION (DIGGING, TRENCHING, BACK FILLING, ETC.) SHALL BE PROVIDED BY CONTRACTOR. BOND RIGID GALVANIZED STEEL CONDUIT TO GROUND.
- 23. WHERE CONDITIONS ALLOW, ALL UNDERGROUND CONDUITS AND UTILITIES SHALL HAVE METALIZED WARNING TAPE INSTALLED ABOVE THE CONDUIT THAT IDENTIFIES THE SPECIFIC SYSTEM BURIED BELOW. TAPE SHALL CONSIST OF A MINIMUM 3.5 MIL SOLID FOIL CORE ENCASED IN A PROTECTIVE PLASTIC JACKET (TOTAL THICKNESS 5.5 MILS) AND BE 6" WIDE WITH BLACK LETTERING IMPRINTED ON A COLOR CODED BACKGROUND THAT CONFORMS TO APWA COLOR CODE SPECIFICATIONS. WARNING TAPE SHALL BE INSTALLED 18" ABOVE THE PIPE AND IN NO CASE LESS THAN 6" BELOW GRADE.
- 24. ALL NON-METALLIC CONDUIT INSTALLED UNDERGROUND SHALL HAVE A TRACER WRE INSTALLED INSIDE EACH CONDUIT. THE TRACER WIRE SHALL BE #12 COPPER-CLAD STEEL REINFORCED SINGLE CONDUCTOR WIRE INSULATED WITH ORANGE COLORED HDPE INSULATION (30 MILS) EQUAL TO COPPERHEAD INDUSTRIES BRAND. THE TRACER WIRE SHALL BE CONTINUOUS ALONG THE ENTIRE LENGTH OF THE CONDUIT AND SHALL TERMINATE WITH WATERPROOF CONNECTORS. PROVIDE 48" OF EXCESS TRACER WIRE IN EACH PULL BOX OR CONDUIT END.
- 25. ELECTRICAL CONTRACTOR SHALL LOCATE ELECTRICAL CONDUITS OUTSIDE THE DRIP LINE OF EXISTING TREES TO THE GREATEST EXTEND POSSIBLE.
- 26. EMT CONDUIT COUPLINGS, CONNECTORS, AND FITTINGS SHALL BE STEEL HEXAGONAL COMPRESSION TYPE ONLY. SET SCREW COUPLINGS, CONNECTORS, AND FITTINGS SHALL NOT BE ALLOWED.
- 27. WHERE INSTALLING CONDUITS, BOXES, EQUIPMENT, ETC., IN WET OR DAMP LOCATIONS, INSTALL CONDUITS, BOXES, EQUIPMENT, ETC. AT A MINIMUM OF 1/4-INCH FROM THE MOUNTING SURFACE WITH CLAMP BACKS OR
- 28. EXISTING CONDITIONS THAT ARE NOT INDICATED TO BE DEMOLISHED, BUT ARE DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED OR REPLACED BY THE EC TO MATCH EXISTING ADJACENT CONDITIONS.
- 29. THE EC SHALL KEEP THE CONSTRUCTION AREA AND SURROUNDING AREAS FREE FROM THE ACCUMULATION OF WASTE MATERIALS AND DEBRIS CAUSED BY THE WORK.
- 30. EC SHALL VERIFY EXISTING CONDITIONS PRIOR TO EXECUTION OF THE WORK. SOME OR ALL INFORMATION ABOUT EXISTING CONDITIONS SHOWN ON THE DRAWINGS MAY BE BASED SOLELY ON EXISTING RECORD DRAWINGS AND MAY OR MAY NOT HAVE BEEN VERIFIED BY THE ARCHITECT OR ENGINEER.
- UNLESS NOTED OTHERWISE, DEMOLISH AND REMOVE FROM THE PROJECT SITE ALL EQUIPMENT. DUCTWORK. PIPING, CONDUIT, ETC. AS INDICATED ON THE DEMOLITION DRAWINGS OR OTHER DRAWINGS. ALL SYSTEMS SHALL BE DEMOLISHED BACK TO THE SOURCE AND CAPPED APPROPRIATELY.
- 32. EXISTING EQUIPMENT OR DEVICES THAT ARE INDICATED TO BE REMOVED AND TURNED OVER TO OWNER SHALL BE REMOVED WITH DUE CARE AND DILIGENCE, CLEANED AND TURNED OVER TO THE OWNER.
- 33. ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE 3RD PARTY LISTED APPROVAL FOR THEIR INSTALLED APPLICATION.
- 34. FOR ALL ELECTRICAL CIRCUITS, EC SHALL IDENTIFY THE CIRCUIT NUMBER IN THE DESIGNATED PANEL, SHALL MARK THE CIRCUIT NUMBER ON THE DRAWINGS, AND SHALL TURN OVER THE MARKED UP DRAWINGS TO OWNER. EC SHALL UPDATE THE PANEL SCHEDULES UPON COMPLETION OF CONSTRUCTION. IN THE EVENT THE PANEL(S) DO NOT HAVE ADEQUATE SPARE CIRCUITS OR CAPACITY, EC SHALL NOTIFY OWNER FOR RESOLUTION OF ISSUE.
- 35. NEW AND EXISTING PANEL SCHEDULES SHALL BE UPDATED (TYPED-ONLY) UPON COMPLETION OF THE WORK TO ACCURATELY INDICATE INSTALLED CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL COORDINATE LOCATING EXISTING UNDERGROUND UTILITIES WITH OWNER, OWNER'S ON-SITE ENGINEER, AND NC ONE CALL (811) PRIOR TO ANY WORK.
- 37. EC SHALL BE LICENSED IN NC, AND SHALL INSTALL ALL ELECTRICAL EQUIPMENT, WIRING, DEVICES, ETC. AS PER NEC, AND OTHER APPLICABLE STATE AND LOCAL CODES.
- 38. PRIOR TO CONTACTING THE LOCAL INSPECTOR, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONTACT THE DESIGNER REPRESENTATIVE TO SCHEDULE THE REQUIRED ROUGH-IN AND FINAL INSPECTIONS. NO WORK WILL BE COVERED UP UNTIL AFTER THE INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE DESIGN FIRM REPRESENTATIVE AND OWNER REPRESENTATIVE.
- 39. CONTRACTOR IS RESPONSIBLE FOR ALL SITE WORK. THIS SHALL INCLUDE BUT NOT LIMITED TO ALL SITE DEMO, BUSH AND TREE REMOVAL, TRENCHING, CONCRETE PAD DEMO AND INSTALLATION, FINAL GRADING AND GRASS RESODING/RESEEDING, BUSH AND TREE REPLANTING.
- 40. CONTRACTOR SHALL RETURN TO THE SITE AT 10 MONTHS AFTER FINAL COMPLETION TO INSPECT & FILL IN & RESEED ANY VOIDS.
- 1. CONTRACTOR SHALL DOCUMENT THE DEPTHS OF ALL DIRECTIONAL DRILLS CONDUITS AT A MAXIMUM OF 20 FEET INTERVALS & MAINTAIN A COMPREHENSIVE (DEPTH AND HORIZONTAL LOCATIONS) FIELD "AS-BUILTS" FOR ALL INSTALLATIONS AND SUBMIT TO THE ENGINEER.
- 42. CONTRACTOR SHALL PROVIDE CIRCUIT IDENTIFICATION LABELS AT EACH POLE MOUNTED LIGHTING FIXTURE POLE LOCATION & AT EACH GROUND MOUNTED PULL BOX LOCATION. LABELS SHALL BE INSTALLED ON THE OUTSIDE OF EACH LIGHT FIXTURE POLE, INSIDE EACH LIGHT FIXTURE POLE BASE AT THE HAND HOLE, & INSIDE EACH PULL BOX. WHERE MORE THAN ONE SET OF CIRCUITS ARE SHARED IN A CONDUIT/PULLBOX, SEPARATE EACH CIRCUIT SET & PROVIDE A SEPARATE LABELS FOR EACH CIRCUIT SET. LABEL & ÁTTACHMENT SHALL BE SUITABLE FOR THE ENVIRONMENT INSTALLED. LABEL INFORMATION SHALL INCLUDE 1) BUILDING FED FROM, 2) PANEL ID, 3) CIRCUIT NUMBER(S), & 4) LOAD DESCRIPTION. FOR EXAMPLE:
- LINE 1: FED FROM BUILDING 'F'
- LINE 2: PANEL CS LINE 3: CIRCUIT 6,8
- LINE 4: AREA POLE LIGHT (WEST)

ABBREVIATIONS 2/C 2 CONDUCTOR AMPS **AFF** ABOVE FINISHED FLOOR ABOVE FINISHED GRADE BREAKER BOTTOM OF CONDUIT BOC CONDUIT ELECTRICAL CONTRACTOR ELECTRICAL METALLIC TUBING EXISTING TO REMAIN ETR EXISTING FLEXIBLE METAL CONDUIT FEET GROUND **GFCI** GROUND FAULT CIRCUIT INTERRUPTER HORSE POWER HERTZ INTERMEDIATE METAL CONDUIT INCHES IN USE ISOLATED GROUND ISO GND LIQUID FLEXIBLE METAL CONDUIT LFMC LIGHTS LTS **NEUTRAL** NOT TO SCALE PHASE RELOCATED RIGID METAL CONDUIT RMC TWISTED SHIELDED TWSH TYP TYPICAL UNLESS NOTED OTHERWISE UNO VOLT AMPS

VOLTS AC

ON BUILDING A1.

ADD ALTERNATE #2:

SIDEWALK IN FRONT OF BUILDING A.

WEATHER PROOF

ALTERNATES

FOUNDATIONS, & CIRCUITING FOR AREA NORTH OF BUILDING A. INSTALLATION

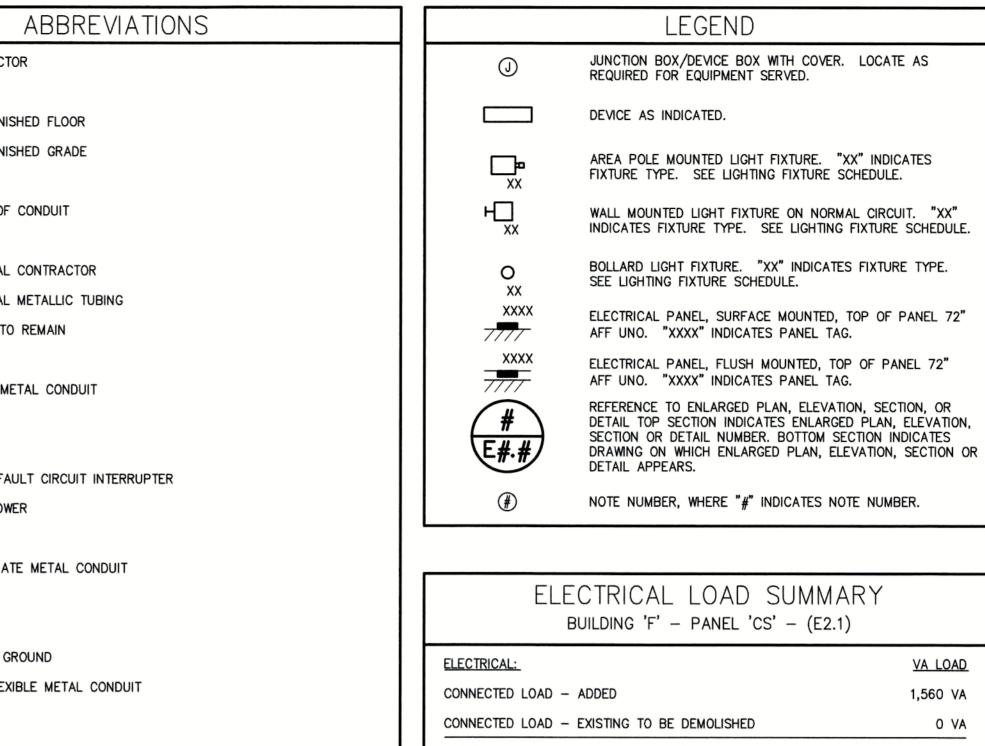
OF CONDUIT UNDER DRIVEWAY. INSTALLATION OF WALL MOUNTED FIXTURES

INSTALLATION LIGHTING FIXTURE BOLLARDS, FOUNDATIONS, & CIRCUITING FOR

DEMO OF TWO FIXTURES. INSTALLATION OF TWO LIGHT FIXTURES, POLES,

FOUNDATIONS, & CIRCUITING FOR AREA EAST OF BUILDING A.

ADD ALTERNATE #1:
DEMO OF FIXTURE. INSTALLATION OF TWO LIGHT FIXTURES, POLES,



NET BUILDING LOAD: NEW MINUS DEMO 1,560 VA

ELECTRICAL LOAD SUMMARY BUILDING 'A1' - PANEL 'A' - (E2.2)	
ELECTRICAL:	VA LOAD
CONNECTED LOAD - ADDED	342 VA
CONNECTED LOAD - EXISTING TO BE DEMOLISHED	O VA
NET BUILDING LOAD: NEW MINUS DEMO	342 VA

ADD ALTERNATE #1

ELECTRICAL LOAD SUMMARY BUILDING 'A1' - PANEL 'A' - (E2.2)	
ELECTRICAL:	VA LOAD
CONNECTED LOAD - ADDED	564 VA
CONNECTED LOAD - EXISTING TO BE DEMOLISHED	O VA
NET BUILDING LOAD: NEW MINUS DEMO	564 VA

ADD ALTERNATES #1 & #3

ELECTRICAL LOAD SUMMARY building 'a' - panel 'mp' - (e2.2)	
ELECTRICAL:	VA LOAD
CONNECTED LOAD - ADDED	132 VA
CONNECTED LOAD - EXISTING TO BE DEMOLISHED	O VA
NET BUILDING LOAD: NEW MINUS DEMO	132 VA

ADD ALTERNATE #2

LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MANUFACTURER / CATALOG NUMBER	VOLTS	QTY.	TYPE	WATTS	COLOR	REMARKS
A1	POLE MOUNTED AREA LIGHT, LED, 4000K, R4 DISTRIBUTION, 208VAC, DOUBLE FUSE, PHOTOCELL, DARK BRONZE FINISH. PROVIDED WITH ROUND TAPERED STEEL POLE, 39'-0" HEIGHT, MINIMUM 11 GA WALL THINNESS, 9 INCH BUTT, DARK BRONZE FINISH WITH ACCESS COVER.	LITHONIA - RSX3-LED-P4-40K-R4-208-RPA-DF-PE-DDBXD (FIXTURE) WITH RTS-39-B-90-4-BM-D190 (POLE) (1 FIXTURE PER POLE. EC TO COMPLETE PART NUMBER.)	208	1	LED	312	4000K	BOTTOM OF FIXTURE MOUNTED APPROXIMATELY 43'-0" AFG. SEE 1/E4.1 FOR POLE FOUNDATION DETAIL.
F1	POLE MOUNTED AREA LIGHT, LED, 4000K, DUAL FUSE, PHOTOCELL, DARK BRONZE FINISH. PROVIDED WITH 5 INCH, STRAIGHT SQUARE STEEL POLE, 25'-0" HEIGHT, MINIMUM 0.1793 INCH WALL THINNESS, DARK BRONZE FINISH WITH ACCESS COVER.	LITHONIA - RSX2-LED-P3-40K-R4-208-SPA-DF-PE-DDBXD (FIXTURE) WITH SSS-25-5G-DM19AS-DDB (POLE) (1 FIXTURE PER POLE. EC TO COMPLETE PART NUMBER.)	208	1	LED	111	4000K	BOTTOM OF FIXTURE MOUNTED APPROXIMATELY 25'-6" AFG. SEE 2/E4.1 FOR POLE FOUNDATION DETAIL.
W1	WALL PACK, LED, 5000K, PHOTOCELL, DARK BRONZE FINISH.	TAMLITE LIGHTING - W2LED-60-5K-PC OR EQUAL TO MATCH EXISTING	120	1	LED	60		MOUNT TOP OF FIXTURE 1'-6" BELOW TOP EDGE OF BUILDING ROOF
Z1	BOLLARD, LED, ASYMMETRIC, 4000K, DUAL FUSE, PHOTOCELL, DARK BRONZE FINISH.	LITHONIA - DSXB-LED-12C-700-40K-ASY-208-PE-DF-DDBXD	208	1	LED	22	4000K	SEE 3/E4.1 FOR FOUNDATION DETAIL.



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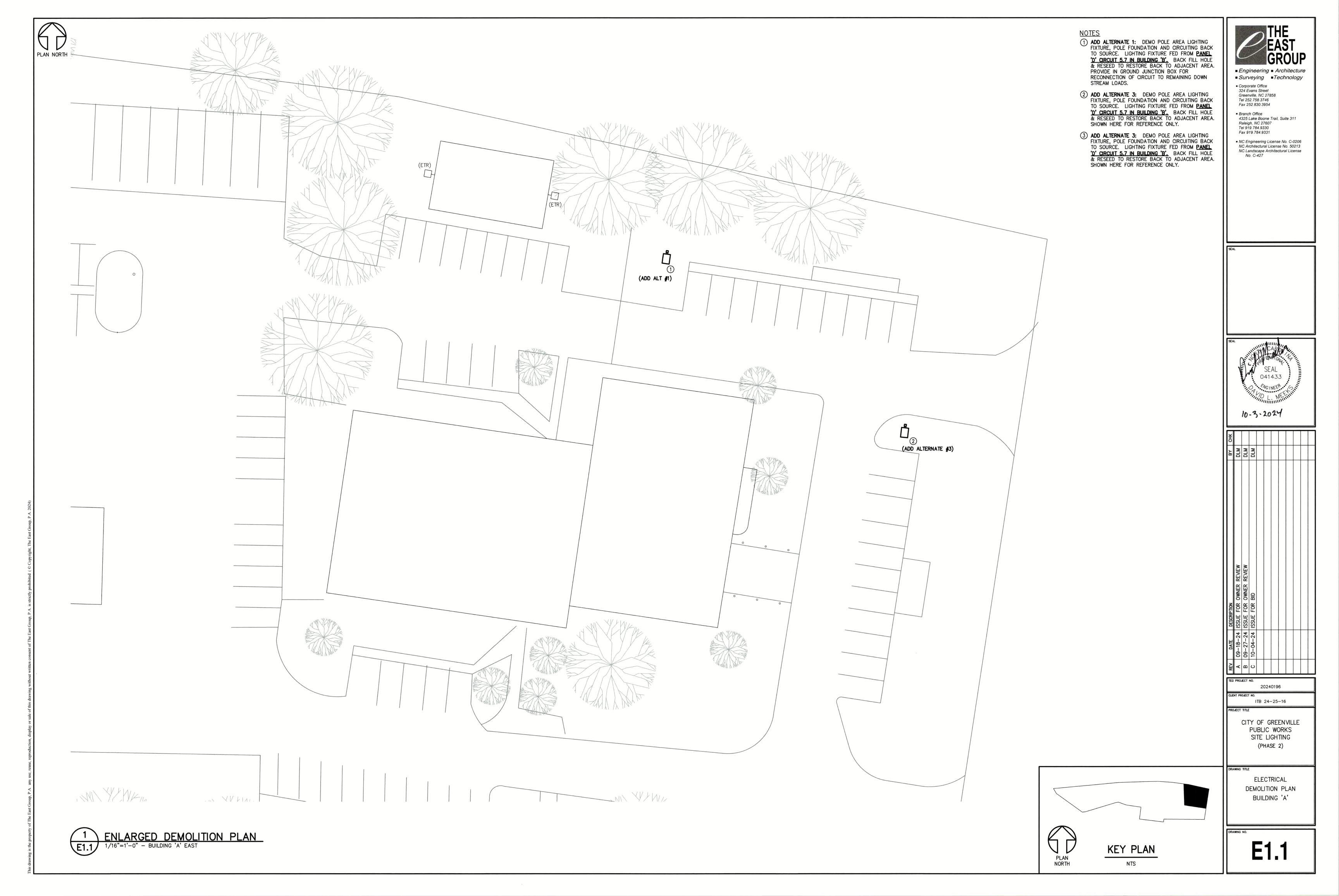
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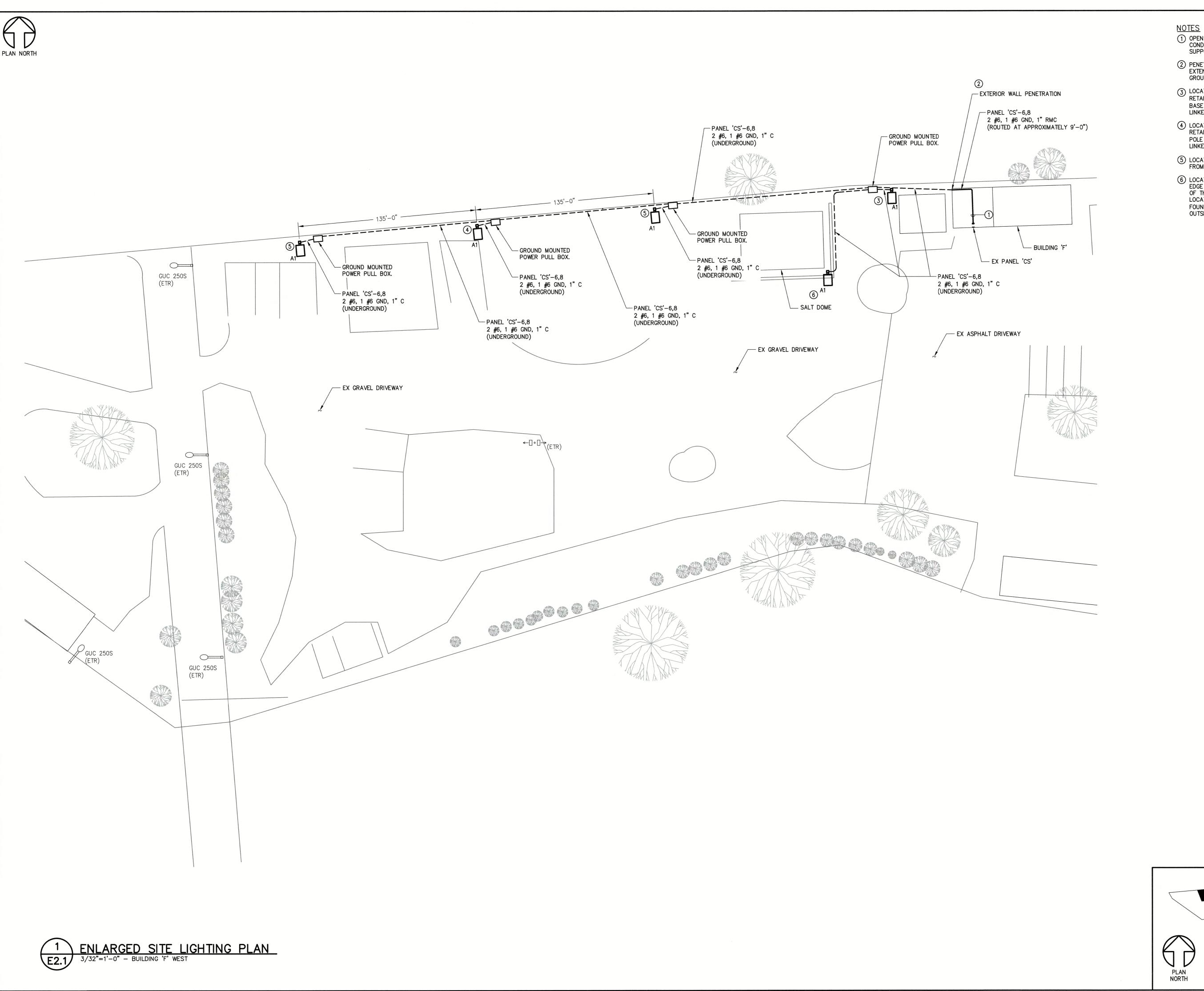
CITY OF GREENVILLE PUBLIC WORKS SITE LIGHTING (PHASE 2)

ITB 24-25-16

ELECTRICAL

LEAD SHEET





- OPEN CEILING AREA. WHERE CONDITIONS ALLOW, ROUTE CONDUIT TIGHT TO BOTTOM SIDE OF THE ROOF DECKING SUPPORT STRUCTURE.
- 2 PENETRATE & EXTEND CONDUIT THRU EXTERIOR WALL.
 EXTEND CONDUIT DOWN EXTERIOR WALL TO BELOW
 GROUND
- 3 LOCATE POLE BASE CENTERED BETWEEN THE SALT DOME RETAINING WALL & BUILDING 'F' WALL. LOCATE POLE BASE CENTERED APPROXIMATELY 4'-0" FROM CHAIN LINKED FENCE.
- 4 LOCATE POLE BASE CENTERED BETWEEN THE SALT DOME RETAINING WALL & ROADWAY BACK OF CURB. LOCATE POLE BASE CENTERED APPROXIMATELY 4'-0" FROM CHAIN LINKED FENCE.
- 5 LOCATE POLE BASE CENTERED APPROXIMATELY 4'-0" FROM CHAIN LINKED FENCE.
- 6 LOCATE POLE BASE CENTERED BETWEEN THE OUTSIDE EDGE OF THE SALT BUILDING WALL AND THE INSIDE EDGE OF THE OUTER RETAINING WALL. COORDINATE THE EXACT LOCATION WITH OWNER. LOCATE THE TOP OF THE POLE FOUNDATION 4'-0" ABOVE THE FINISHED GRADE THAT IS OUTSIDE OF THE RETAINING WALL AREA.



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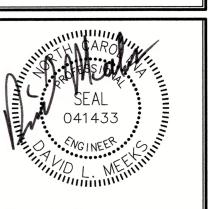
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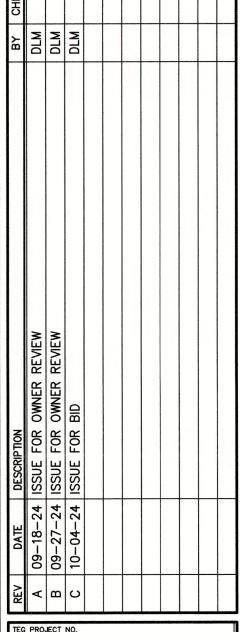
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10-3-2024



G PROJECT NO. 20240196

PROJECT NO.

ITB 24-25-16

CITY OF GREENVILLE
PUBLIC WORKS
SITE LIGHTING
(PHASE 2)

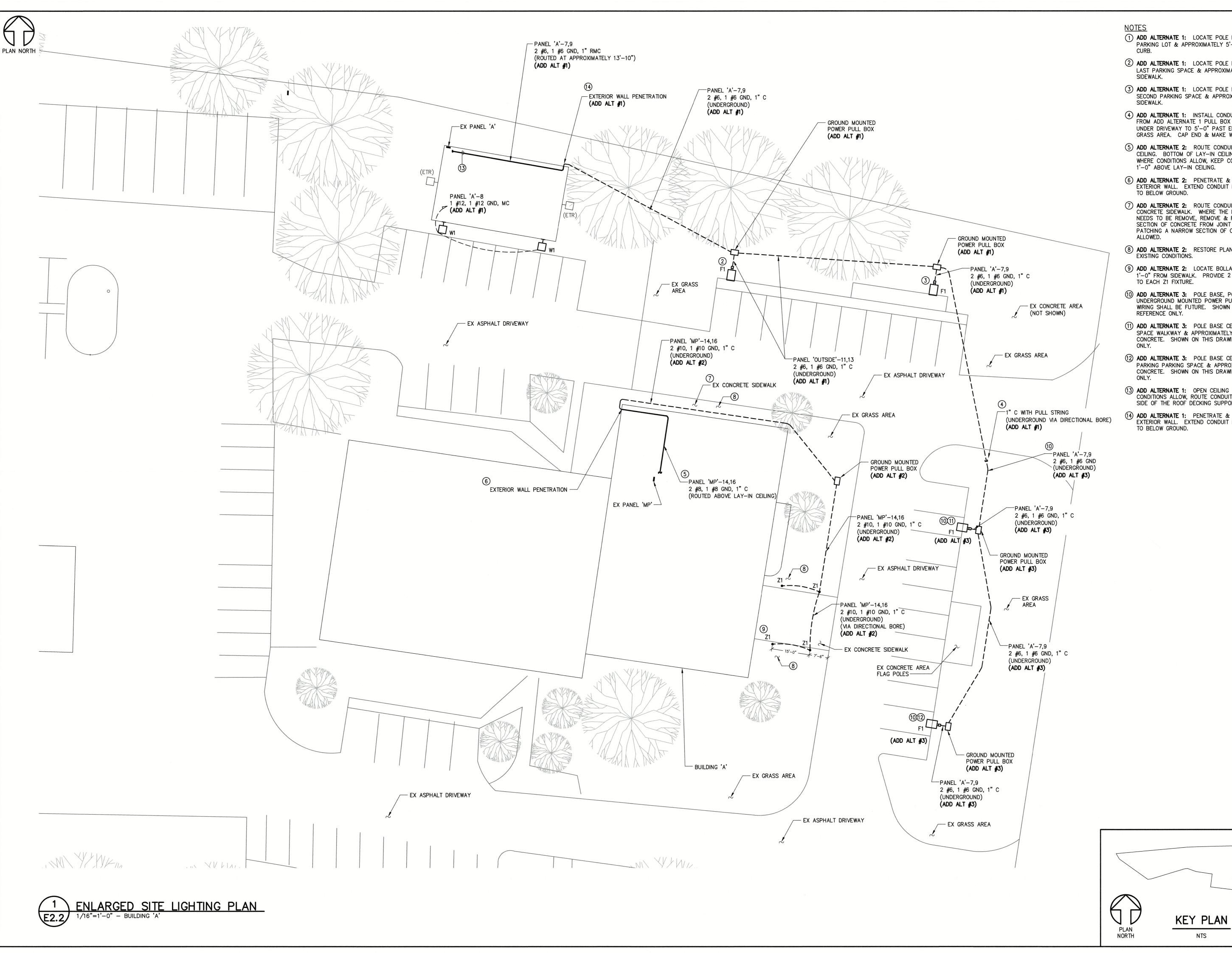
DRAWING TITLE

ELECTRICAL
ENLARGED SITE
LIGHTING PLAN
BUILDING 'F' WEST

DRAWING NO.

KEY PLAN

E2.1



- 1) ADD ALTERNATE 1: LOCATE POLE BASE CENTERED IN PARKING LOT & APPROXIMATELY 5'-0" FROM BACK OF
- 2 ADD ALTERNATE 1: LOCATE POLE BASE CENTERED IN LAST PARKING SPACE & APPROXIMATELY 5'-0" FROM
- (3) ADD ALTERNATE 1: LOCATE POLE BASE CENTERED IN SECOND PARKING SPACE & APPROXIMATELY 5'-0" FROM
- 4) ADD ALTERNATE 1: INSTALL CONDUIT WITH PULL STRING FROM ADD ALTERNATE 1 PULL BOX & EXTEND CONDUIT UNDER DRIVEWAY TO 5'-0" PAST EDGE OF CURB IN GRASS AREA. CAP END & MAKE WATER TIGHT.
- 5 ADD ALTERNATE 2: ROUTE CONDUITS ABOVE LAY-IN CEILING. BOTTOM OF LAY-IN CEILING IS 9'-9" AFF. WHERE CONDITIONS ALLOW, KEEP CONDUITS MINIMUM OF 1'-0" ABOVE LAY-IN CEILING.
- (6) ADD ALTERNATE 2: PENETRATE & EXTEND CONDUIT THRU EXTERIOR WALL. EXTEND CONDUIT DOWN EXTERIOR WALL TO BELOW GROUND.
- 7) ADD ALTERNATE 2: ROUTE CONDUIT UNDER EXISTING CONCRETE SIDEWALK. WHERE THE EXISTING CONCRETE NEEDS TO BE REMOVE, REMOVE & REPLACE ENTIRE SECTION OF CONCRETE FROM JOINT TO JOINT. CUTTING & PATCHING A NARROW SECTION OF CONCRETE IS NOT
- (8) ADD ALTERNATE 2: RESTORE PLANTING BACK TO EXISTING CONDITIONS.
- (9) ADD ALTERNATE 2: LOCATE BOLLARD APPROXIMATELY 1'-0" FROM SIDEWALK. PROVIDE 2 #8, 1 #8 GND, 1" C TO EACH Z1 FIXTURE.
- 10 ADD ALTERNATE 3: POLE BASE, POLE, FIXTURE, UNDERGROUND MOUNTED POWER PULL BOX, CONDUIT, WIRING SHALL BE FUTURE. SHOWN ON THIS DRAWING FOR REFERENCE ONLY.
- (11) ADD ALTERNATE 3: POLE BASE CENTERED IN PARKING SPACE WALKWAY & APPROXIMATELY 5'-0" FROM CONCRETE. SHOWN ON THIS DRAWING FOR REFERENCE
- 12 ADD ALTERNATE 3: POLE BASE CENTERED IN 2ND PARKING PARKING SPACE & APPROXIMATELY 5'-0" FROM CONCRETE. SHOWN ON THIS DRAWING FOR REFERENCE
- (13) ADD ALTERNATE 1: OPEN CEILING AREA. WHERE CONDITIONS ALLOW, ROUTE CONDUIT TIGHT TO BOTTOM SIDE OF THE ROOF DECKING SUPPORT STRUCTURE.

NTS

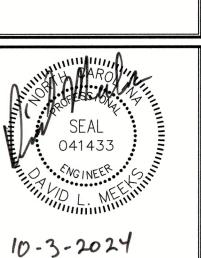
(4) ADD ALTERNATE 1: PENETRATE & EXTEND CONDUIT THRU EXTERIOR WALL. EXTEND CONDUIT DOWN EXTERIOR WALL TO BELOW GROUND.

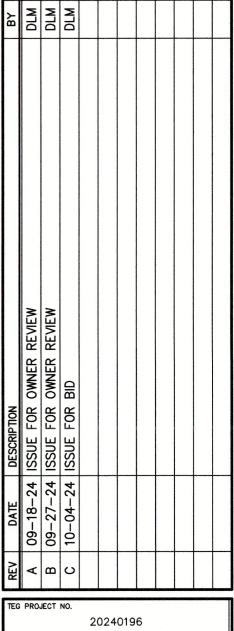
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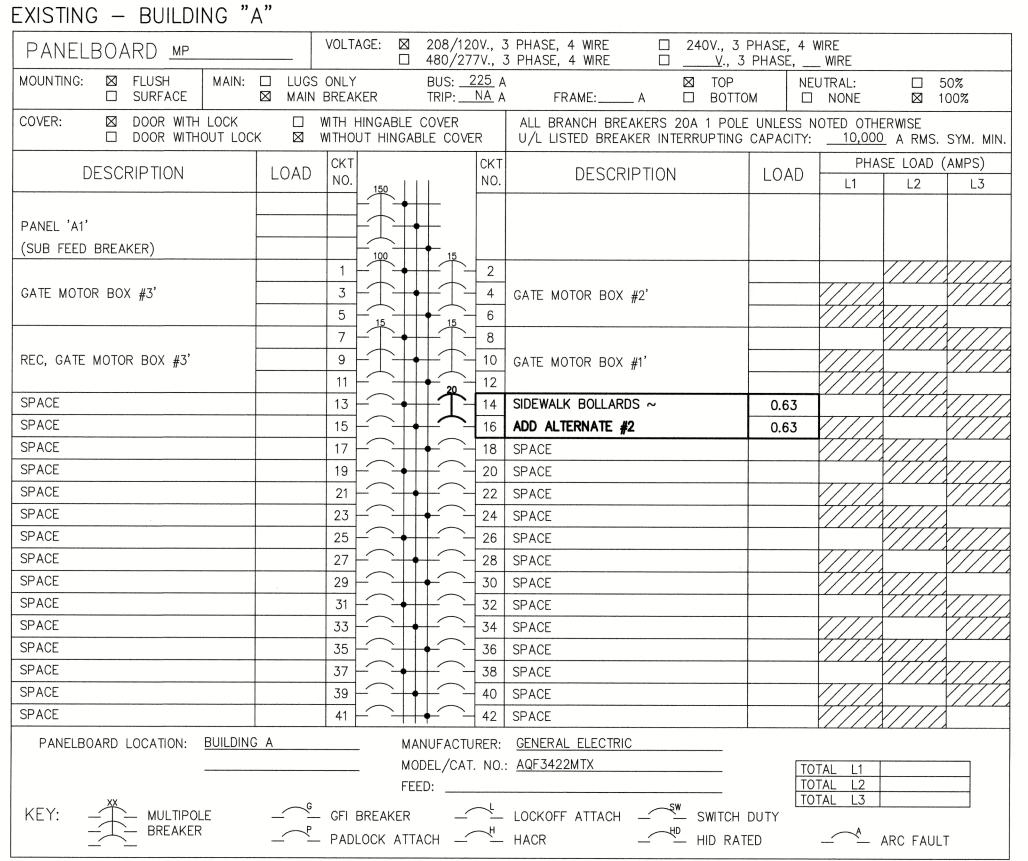
CITY OF GREENVILLE PUBLIC WORKS SITE LIGHTING

(PHASE 2)

ELECTRICAL

ENLARGED SITE LIGHTING PLAN BUILDING 'A' EAST

E2.2



(EXISTING PANELBOARD SHOWN FOR REFERENCE ONLY, CIRCUITS HAVE NOT BEEN FIELD VERIFIED)

+ NEW LOAD ADDED TO EXISTING CIRCUIT BREAKER * EXISTING SPARE CIRCUIT BREAKER TO BE USED

~ NEW CIRCUIT BREAKER IN EXISTING SPACE ^ NEW CIRCUIT BREAKER, EXISTING CIRCUIT BREAKER TO BE REMOVED

FXISTING - BUILDING 'F'

PANELBOARD BUILDING F:	PANEL CS	VOLTAGE: ☒	208/120V., 3 PHASE, 4 WIRE		
MOUNTING: ☐ FLUSH MAIN: ☐ SURFACE	□ LUGS ONLY □ MAIN BREAKER	BUS: <u>125</u> A TRIP: <u>NA</u> A	FRAME:A DOTTO	NEU	UTRAL: ☐ 50% NONE ⊠ 100%
COVER: DOOR WITH LOCK DOOR WITHOUT LOC	□ WITH HINGABL		ALL BRANCH BREAKERS 20A 1 POLE U/L LISTED BREAKER INTERRUPTING		
DESCRIPTION	LOAD CKT	CKT NO.	DESCRIPTION	LOAD	PHASE LOAD (AMPS) L1 L2 L3
BLOCK HEATER	1 - G	2	AREA POLE LIGHT (WEST) ~	3.0	
BLOCK HEATER	3 - 3	20 4		3.0	
BLOCK HEATER	5 - 6	6	AREA POLE LIGHT (WEST) ~	7.5	
BLOCK HEATER	7	8		7.5	
BLOCK HEATER	9 - 6	10	SPACE		
BLOCK HEATER	11	12	STORAGE LIGHT (?POLE LIGHT)		
BLOCK HEATER	13	14	HEATER FAN		
GARAGE LIGHT	15 —	16	SPACE		
GARAGE POWER	17	18	SPACE		
STORAGE POWER	19 —	20	SPACE		
EXTERIOR LIGHTS	21	22	SPACE		
SALT DOME	23 —	24	SPACE		
PANELBOARD LOCATION: BUILDIN	G F	MANUFACTURER:	GENERAL ELECTRIC		
			: AQF3241MTX	TO	TAL L1
		•		TO	TAL L2
KEY: — MULTIPOLE	G CEL BREAKE	-D	LOCKOFE ATTACH	TO	TAL L3
BREAKER	P - GFI BREAKE	.г. — л. 	LOCKOFF ATTACH — SW SWITCH HACR — HID RAT	ווטע	<u> </u>

(EXISTING PANELBOARD SHOWN FOR REFERENCE ONLY, CIRCUITS HAVE NOT BEEN FIELD VERIFIED)

+ NEW LOAD ADDED TO EXISTING CIRCUIT BREAKER

* EXISTING SPARE CIRCUIT BREAKER TO BE USED

~ NEW CIRCUIT BREAKER IN EXISTING SPACE ^ NEW CIRCUIT BREAKER, EXISTING CIRCUIT BREAKER TO BE REMOVED EXISTING - BUILDING "A1"

PANELBOARD A	VOLTAGE: ⊠ 240/120V.,	1 PHASE, 3 WIRE	
MOUNTING: ☐ FLUSH MAIN: ☐ LL SURFACE MAIN: ☐ LL	GS ONLY BUS: 100 A IN BREAKER TRIP: 100 A	TOP FRAME: A ⊠ BOTTOM	NEUTRAL: ☐ 50% ☐ NONE ☑ 100%
	WITH HINGABLE COVER WITHOUT HINGABLE COVER	ALL BRANCH BREAKERS 20A 1 POLE U/L LISTED BREAKER INTERRUPTING C	UNLESS NOTED OTHERWISE APACITY: 10,000 A RMS. SYM. MIN.
DESCRIPTION LOA	CKT NO.	DESCRIPTION	LOAD PHASE LOAD (AMPS) L1 L2
MAIN BREAKER	1 2 4	SPACE SPACE	
EAST WALL (PANEL WALL) GFCI REC	5 20 6	WEST WALL GFCI REC	
AREA POLE LIGHT (EAST) ~ 1.85	7 8	LIGHTS	
ADD ALTERNATE #1 & #3 1.85	9 10	SPACE	
SPACE	11	SPACE	
SPACE	13	SPACE	
SPACE	15 16	SPACE	
SPACE	17 18	SPACE	
SPACE	19 20	SPACE	
SPACE	21	SPACE	
SPACE	23 24	SPACE	
PANELBOARD LOCATION: BUILDING A1	MODEL/CAT. NO	EATON CUTLER-HAMMER : BR	TOTAL L1 TOTAL L2
KEY: — MULTIPOLE — BREAKER —			UTY A ARC FAULT

(EXISTING PANELBOARD SHOWN FOR REFERENCE ONLY, CIRCUITS HAVE NOT BEEN FIELD VERIFIED)

+ NEW LOAD ADDED TO EXISTING CIRCUIT BREAKER

* EXISTING SPARE CIRCUIT BREAKER TO BE USED ~ NEW CIRCUIT BREAKER IN EXISTING SPACE

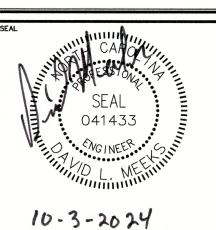
^ NEW CIRCUIT BREAKER, EXISTING CIRCUIT BREAKER TO BE REMOVED

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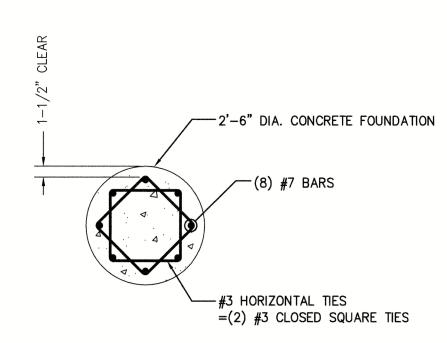
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CITY OF GREENVILLE PUBLIC WORKS SITE LIGHTING (PHASE 2)

ITB 24-25-16

ELECTRICAL PANEL SCHEDULES

ELEVATION VIEW



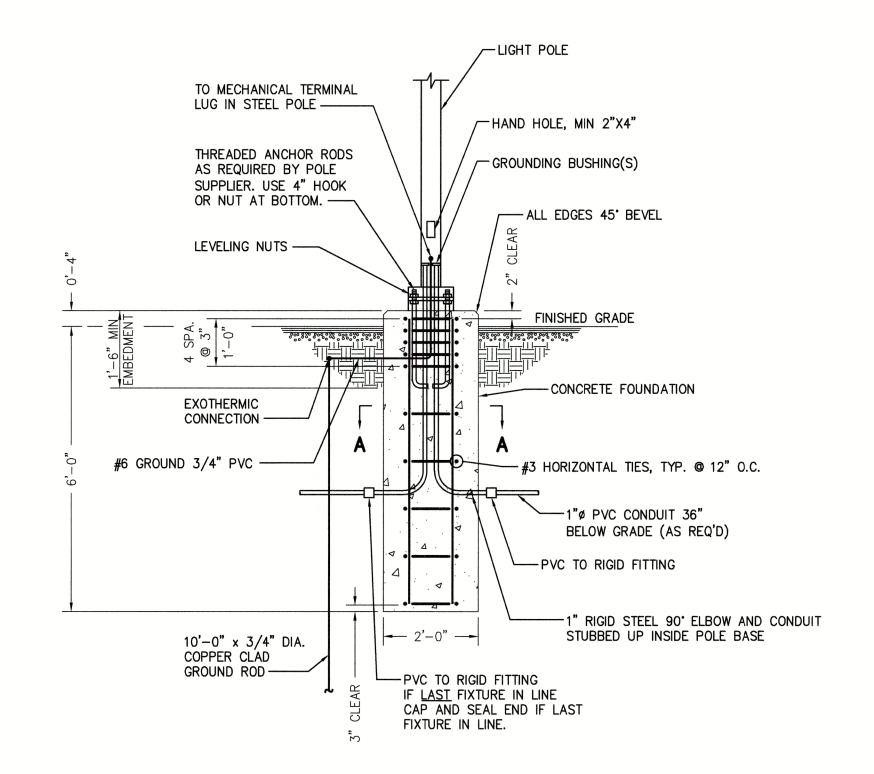
PLAN VIEW - SECTION A-A

DETAIL STRUCTURAL NOTES:

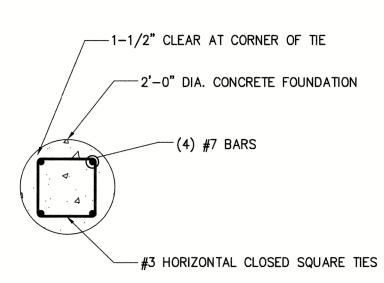
- 1. ANCHOR RODS SHALL BE GALVANIZED ASTM F1554 GRADE 55.
- 2. REINFORCEMENTS BARS SHALL BE A615 GRADE 60.
- 3. CONCRETE SHALL HAVE 4000 PSI MINIMUM 28-DAY COMPRESSION STRENGTH.
- 4. AFTER THE FOUNDATION IS FORMED AND POURED, THE SOIL AROUND THE BASE SHALL BE BACKFILLED AND COMPACTED TO ACHIEVE 98% COMPACTION (STANDARD
- 5. SEE PLAN DRAWINGS FOR LOCATIONS OF LIGHT POLE FOUNDATIONS.
- 6. FOUNDATIONS ARE DESIGNED FOR A MINIMUM ALLOWABLE NET SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR TO VERIFY PRIOR TO CONCRETE PLACEMENT.
- 7. FOR MINIMUM CONCRETE DURABILITY, CONCRETE SHALL BE AIR-ENTRAINED WITH AIR
- CONTENT OF 6% PLUS OR MINUS 1.5%.
- 8. MAXIMUM CONCRETE SLUMP SHALL BE (4) INCHES TYPICAL, UNLESS NOTED

GENERAL DETAIL NOTES:

- 1. TOP OF GROUND ROD SHALL BE DRIVEN TO 2" BELOW FINISHED GRADE. CADWELD GROUNDING CONDUCTOR CONNECTIONS.
- 2. GROUT SHALL BE PACKED UNDER BASE OF POLE LIGHT TO ENSURE FULL CONTACT WITH FOUNDATION.
- 3. PROVIDE 2'-6" ROUND CONCRETE FIBER FORM ABOVE FINISHED GRADE.
- 4. POSITION HAND HOLE AWAY FROM WALKWAY.



ELEVATION VIEW



PLAN VIEW - SECTION A-A

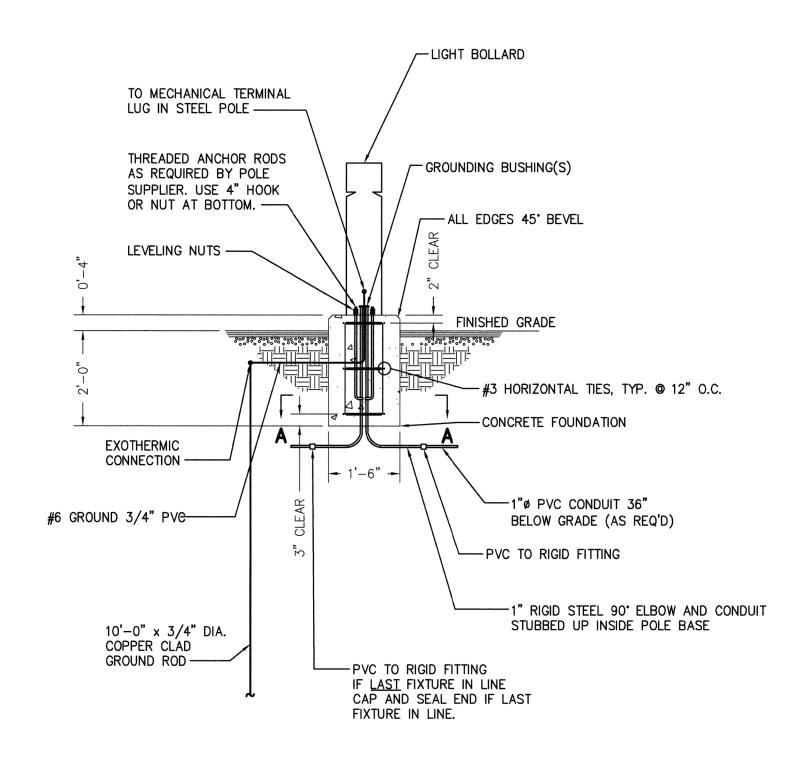
DETAIL STRUCTURAL NOTES:

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- 5. SEE PLAN DRAWINGS FOR LOCATIONS OF LIGHT POLE FOUNDATIONS.
- 6. FOUNDATIONS ARE DESIGNED FOR A MINIMUM ALLOWABLE NET SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR TO VERIFY PRIOR TO CONCRETE PLACEMENT.
- 7. FOR MINIMUM CONCRETE DURABILITY, CONCRETE SHALL BE AIR-ENTRAINED WITH AIR
- CONTENT OF 6% PLUS OR MINUS 1.5%.
- 8. MAXIMUM CONCRETE SLUMP SHALL BE (4) INCHES TYPICAL, UNLESS NOTED

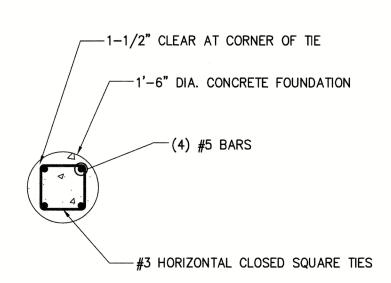
GENERAL DETAIL NOTES:

- 1. TOP OF GROUND ROD SHALL BE DRIVEN TO 2" BELOW FINISHED GRADE. CADWELD GROUNDING CONDUCTOR CONNECTIONS.
- 2. GROUT SHALL BE PACKED UNDER BASE OF POLE LIGHT TO ENSURE FULL CONTACT WITH FOUNDATION.
- 3. PROVIDE 2'-6" ROUND CONCRETE FIBER FORM ABOVE FINISHED GRADE.
- 4. POSITION HAND HOLE AWAY FROM WALKWAY.

TYPICAL POLE MOUNTED FIXTURE FOUNDATION 'F1'



ELEVATION VIEW



PLAN VIEW - SECTION A-A

DETAIL STRUCTURAL NOTES:

- 1. ANCHOR RODS SHALL BE GALVANIZED ASTM F1554 GRADE 55.
- 2. REINFORCEMENTS BARS SHALL BE A615 GRADE 60.
- 3. CONCRETE SHALL HAVE 4000 PSI MINIMUM 28-DAY COMPRESSION STRENGTH.
- 4. AFTER THE FOUNDATION IS FORMED AND POURED, THE SOIL AROUND THE BASE SHALL BE BACKFILLED AND COMPACTED TO ACHIEVE 98% COMPACTION (STANDARD PROCTOR METHOD).
- 5. SEE PLAN DRAWINGS FOR LOCATIONS OF BOLLARD FOUNDATIONS.
- 6. FOUNDATIONS ARE DESIGNED FOR A MINIMUM ALLOWABLE NET SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR TO VERIFY PRIOR TO CONCRETE PLACEMENT.
- 7. FOR MINIMUM CONCRETE DURABILITY, CONCRETE SHALL BE AIR-ENTRAINED WITH AIR CONTENT OF 6% PLUS OR MINUS 1.5%.
- 8. MAXIMUM CONCRETE SLUMP SHALL BE (4) INCHES TYPICAL, UNLESS NOTED

GENERAL DETAIL NOTES:

- 1. TOP OF GROUND ROD SHALL BE DRIVEN TO 2" BELOW FINISHED GRADE. CADWELD GROUNDING CONDUCTOR CONNECTIONS.
- 2. GROUT SHALL BE PACKED UNDER BASE OF BOLLARD TO ENSURE FULL CONTACT WITH FOUNDATION.
- 3. PROVIDE 1'-6" ROUND CONCRETE FIBER FORM ABOVE FINISHED GRADE.

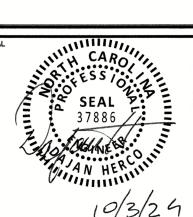
TYPICAL BOLLARD FIXTURE FOUNDATION 'Z1'

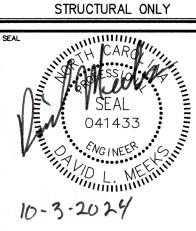
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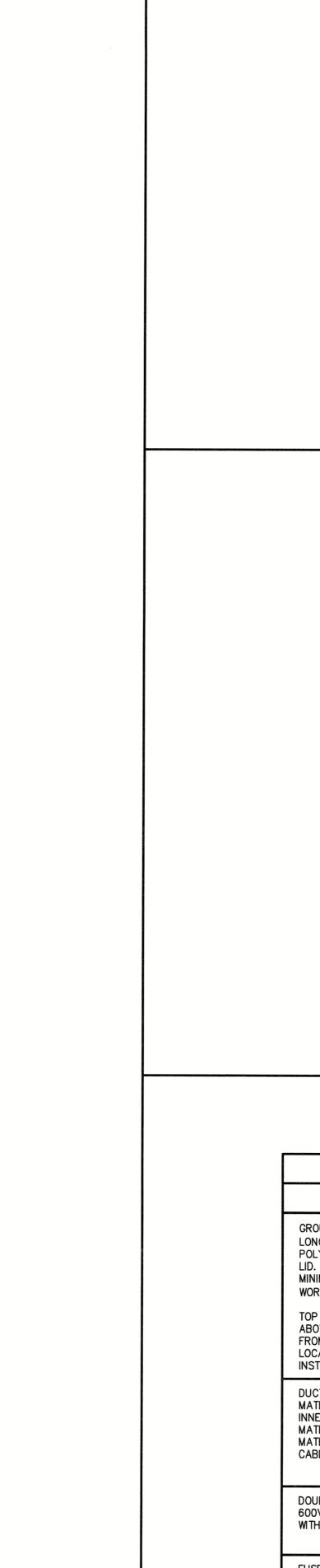
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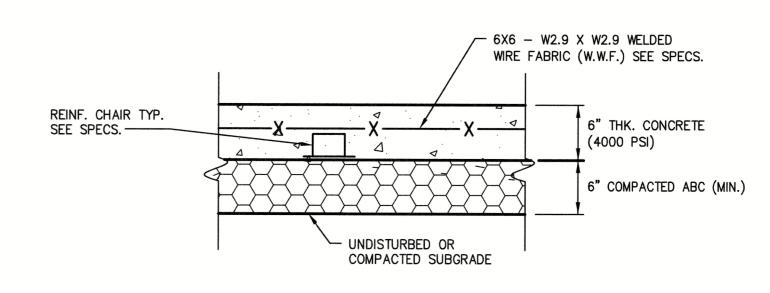
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CITY OF GREENVILLE PUBLIC WORKS SITE LIGHTING (PHASE 2)

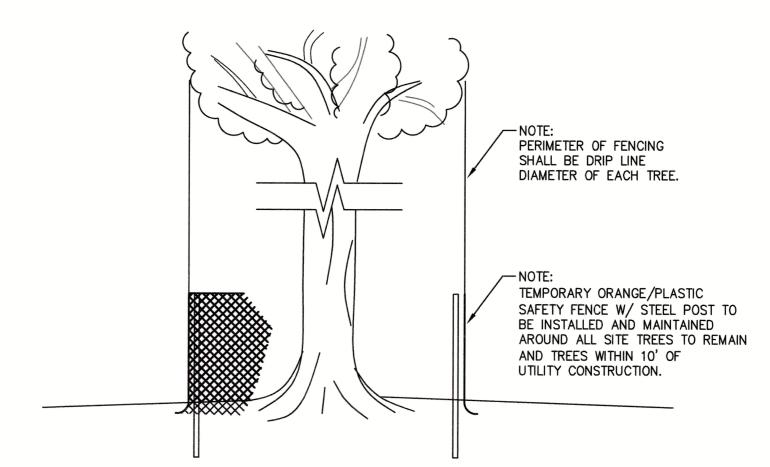
ELECTRICAL POLE FOUNDATION DETAILS

TYPICAL POLE MOUNTED FIXTURE FOUNDATION 'A1'





CONCRETE PAVEMENT DETAIL



ALL TREES LOCATED WITHIN 20 FEET OF CONSTRUCTION SHALL E PROTECTED PER THIS DETAIL.



MISCELLANEOUS EQUIPMENT SCHEDULE					
DESCRIPTION	MANUFACTURER AND MODEL NUMBER				
GROUND MOUNTED PULL BOX, MINIMUM OF 17" WIDE X 30" LONG X 24" DEEP (APPROX. DIMS), HIGH DENSITY POLYMER—CONCRETE, OPEN BOTTOM, ONE PIECE BOLTABLE LID. PULL BOX AND LID SHALL BE RATED FOR TIER 15 MINIMUM. ALL ELECTRICAL PULL BOXES SHALL HAVE THE WORD 'ELECTRIC' MOLDED IN THE LID.	QUAZITE - PG1730BA24 (BOX) OR EQUAL - PG1730HA0017 (COVER LID) OR EQUAL				
TOP OF PULL BOX SHALL BE INSTALLED TWO INCHES ABOVE FINISHED GRADE & GRADED TO PREVENT WATER FROM ENTERING PULL BOX. COORDINATE EXACT MOUNTING LOCATION OF PULL BOXES WITH OWNER PRIOR TO INSTALLATION.					
DUCT SEAL, FOAM-IN-PLACE TWO-PART POLYURETHANE MATERIAL DESIGNED FOR SEALING CONDUITS AND INNERDUCTS, SHALL BE COMPATIBLE WITH CONDUIT MATERIALS AND FUTURE FIBER OPTIC CABLE JACKET MATERIALS, MECHANICAL ADHESIVES TO CONDUITS AND CABLES, WATER RESISTANCE	DURALINE — HYDRO—SEAL S60 OR EQUAL				
DOUBLE-POLE, IN-LINE WATERTIGHT FUSE HOLDER, 600VAC, 30A, COPPER SET-SCREW #12 TO #8 SOLID WIRE, WITH INSULATING BOOTS	LITTELFUSE LEX-JJ, WITH WPB1 OR EQUAL				
FUSE, 5AMPS, 600VAC, TIME DELAY, CLASS CC	LITTELFUSE KLDR-5 OR EQUAL				

NOTES:

1. MANUFACTURER INDICATED FOR LEVEL OF QUALITY, FEATURES, AND SIZE REQUIREMENTS. EQUAL PRODUCT BY OTHER MANUFACTURERS WILL BE ALLOWED PROVIDED PRODUCT MEETS OR EXCEEDS LEVEL OF QUALITY, FEATURES, AND SIZE REQUIREMENTS.

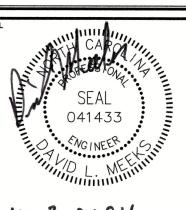


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10-3-2024

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CITY OF GREENVILLE PUBLIC WORKS SITE LIGHTING (PHASE 2)

ELECTRICAL MISCELLANEOUS DETAILS & MISCELLANEOUS EQUIPMENT SCHEUDULE

E4.2