

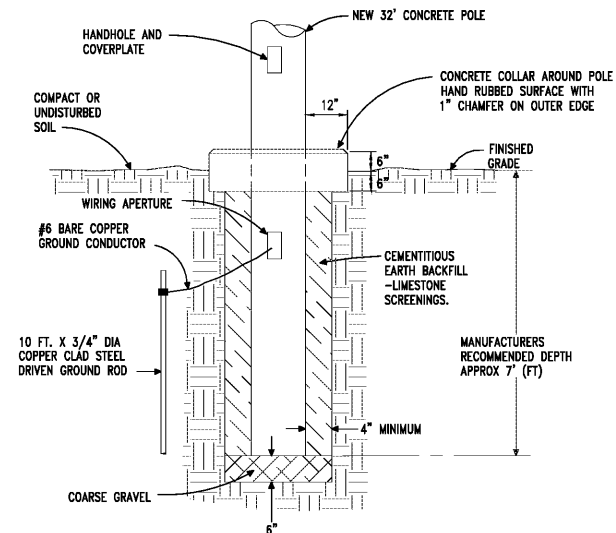
**SHEET NOTES:**

- ① COORDINATE WITH UTILITY COMPANY FOR SPECIFIC LOCATION AND REQUIREMENTS OF TRANSFORMER PAD. SEE POWER RISER DIAGRAMS FOR FURTHER REQUIREMENTS.
- ② COORDINATE WITH UTILITY COMPANY FOR SPECIFIC ROUTING AND TERMINATION POINTS OF UNDERGROUND PRIMARY CONDUITS. COORDINATE ROUTING PRIOR TO BIDDING.
- ③ PROVIDE TWO (2) 1 1/2" UNDERGROUND CONDUITS WITH PULLWIRE FROM ELECTRICAL ROOM TO 5' PAST BUILDING, SIDEWALKS, OR OTHER CONCRETE STRUCTURES. CAP AND VISIBLY MARK CONDUIT WITH A PERMANENT MARKER THAT READS "POWER". CONDUITS SHALL STUB UP IN ELECTRICAL ROOM NOT INTO ANY PANEL.
- ④ CONTRACTOR SHALL BORE FEEDERS FOR GATE WITH HDPE CONDUIT AND CIRCUITRY ACROSS ALL EXISTING HARD SURFACES AND ROADS.
- ⑤ PROVIDE 3500-WATT PHOTOCELL TO CONTROL EXTERIOR WALL MOUNTED LIGHTS ON/OFF DUSK TO DAWN.
- ⑥ SEE FIRE ALARM RISER DIAGRAM SHEET E7.1.

**SITE LEGEND**

- UP-- UNDERGROUND PRIMARY
- US-- UNDERGROUND SECONDARY
- UC-- UNDERGROUND COMMUNICATIONS
- PAD MOUNTED TRANSFORMER
- 2-HEAD SITE LIGHTING ON DIRECT BURIED CONCRETE POLE SEE DETAIL THIS SHEET
- 1-HEAD SITE LIGHTING ON DIRECT BURIED CONCRETE POLE SEE DETAIL THIS SHEET

- NOTES:**
1. CONCRETE SHALL TEST TO BE 4,000 PSI STRENGTH IN 28 DAYS.
  2. SEE LIGHT FIXTURE SCHEDULE FOR LIGHTING CONFIGURATION.
  3. ALL DIMENSIONS SHALL BE COORDINATED AND COMPLY WITH GEOTECHNICAL REPORT.
  4. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS IF MORE STRINGENT.
  5. POLE BASE SHALL BE IN FULL CONTACT WITH THE CONCRETE BASE.



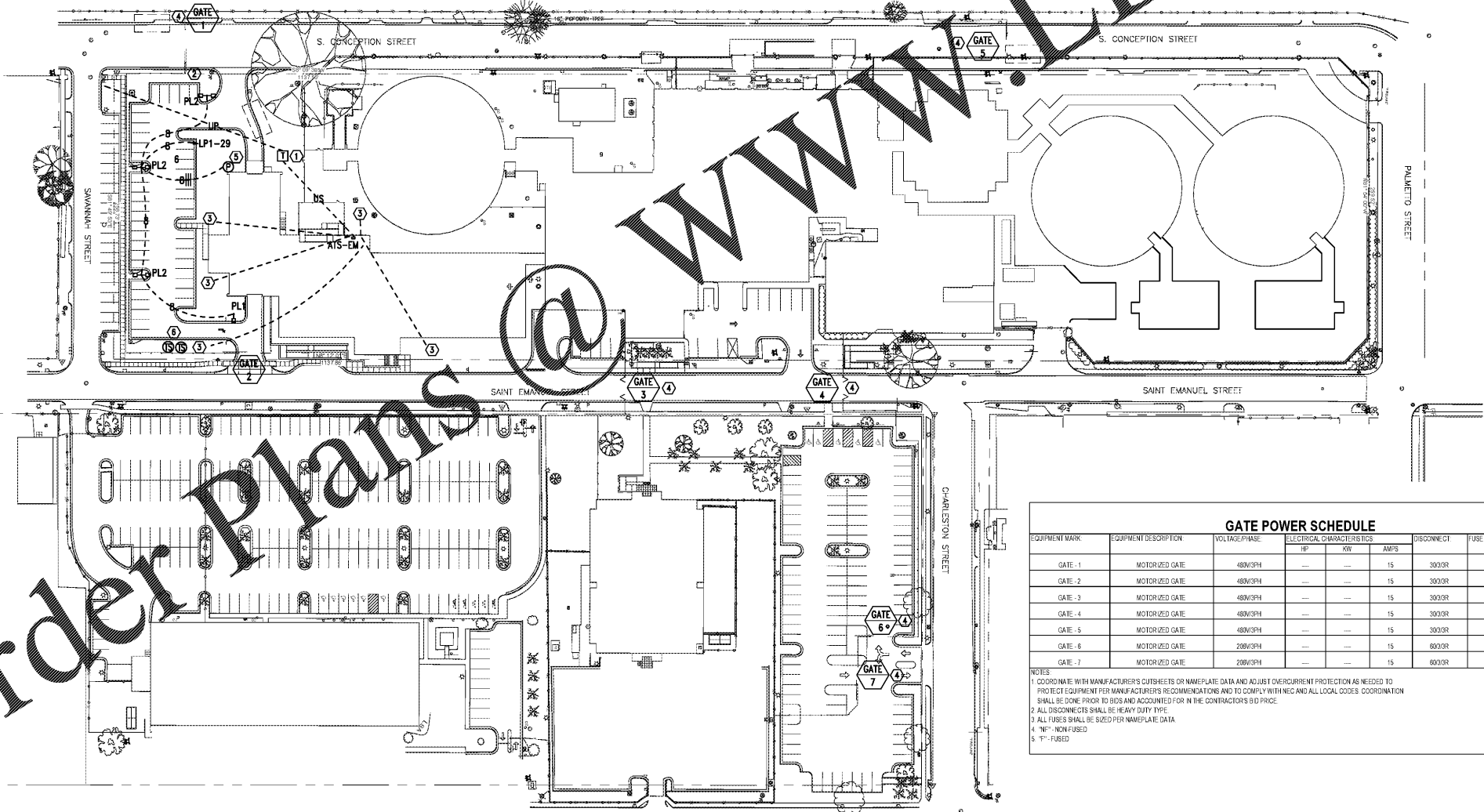
2 DETAIL - TYPICAL CONCRETE DIRECT BURIAL LIGHTING POLE FOR PL1 AND PL2  
NO SCALE

**UNDERGROUND UTILITY NOTES:**

1. THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
  - a. TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
  - b. DUCTBANK INSTALLATIONS
  - c. LOW VOLTAGE CONDUCTOR INSTALLATION
  - d. PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
3. ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
4. ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
6. UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD INTO THE OTHER LIQUID DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
  - a. ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
  - b. PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE TRENCH OR ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ORANGE PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
  - c. DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM DEPTHS. DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITION, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
  - d. ALL TRENCHING AND BACKFILLING SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.

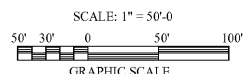
**GENERAL NOTES:**

1. COORDINATIONS OF RISER POLES AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
2. COORDINATE WITH POWER RISER DIAGRAMS FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
3. ALL UNDERGROUND CONDUITS SHALL BE 30" MINIMUM BELOW GRADE. PRIMARY CONDUIT SHALL BE MINIMUM 48" BELOW GRADE.
4. ALL ROUTING SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
5. CONTRACTOR SHALL LABEL ALL CONDUITS ENTERING AND EXITING COMMUNICATIONS HAND HOLES AND BACKBOARDS.
6. REFER TO SHEETS ES.4 AND ES.5 FOR ADDITIONAL SITE PAVEMENT REQUIREMENTS FOR SECURITY.
7. COORDINATE ALL LOCATIONS AND CONDUIT REQUIREMENTS WITH ARCHITECTURAL SECURITY SHEETS PRIOR TO BIDS. PROVIDE CONDUIT TO ADDITIONAL SECURITY DEVICES SHOWN ON ARCHITECTURAL SECURITY PLANS THAT ARE NOT SHOWN ON THE ELECTRICAL PLANS.



GATE POWER SCHEDULE									
EQUIPMENT MARK	EQUIPMENT DESCRIPTION	VOLTAGE/PHASE	ELECTRICAL CHARACTERISTICS			DISCONNECT	FUSE	HOUR/Run	FEEDER
			HP	KW	AMPS				
GATE - 1	MOTORIZED GATE	480V/3PH	—	—	15	3000R	F	PP1 - 2.4.8	3M & 1#30RD - 1.14'C
GATE - 2	MOTORIZED GATE	480V/3PH	—	—	15	3000R	F	PP1 - 5.13.12	3M & 1#30RD - 1.14'C
GATE - 3	MOTORIZED GATE	480V/3PH	—	—	15	3000R	F	PP1 - 14.18.18	3M & 1#30RD - 1.14'C
GATE - 4	MOTORIZED GATE	480V/3PH	—	—	15	3000R	F	PP1 - 29.22.24	3M & 1#30RD - 1.14'C
GATE - 5	MOTORIZED GATE	480V/3PH	—	—	15	3000R	F	PP1 - 28.28.30	3M & 1#30RD - 1.14'C
GATE - 6	MOTORIZED GATE	208V/3PH	—	—	15	8000R	F	FFEM - 2.4.8	3M & 1#30RD - 1.14'C
GATE - 7	MOTORIZED GATE	208V/3PH	—	—	15	8000R	F	FFEM - 8.10.12	3M & 1#30RD - 1.14'C

- NOTES:**
1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCORDINGLY FOR IN THE CONTRACTOR'S BID PRICE.
  2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
  3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
  4. "N" - NON-FUSED
  5. "F" - FUSED



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UPGRADES TO THE MOBILE COUNTY METRO JAIL  
For The MOBILE COUNTY COMMISSION  
MOBILE, ALABAMA



DRAWN	J.C.T.	CHECK	K.A.G.
DATE	April 2, 2019 RTA		
REVISED			
REVISED			
SHEET TITLE	SITE PLAN - ELECTRICAL		
JOB NO.	PH&J 1801-GV		
REVISION NO.	138	OF	175

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