

ELECTRICAL NOTES

- THESE NOTES APPLY TO ENTIRE PROJECT:
- A. CODES. ALL ELECTRICAL WORK SHALL COMPLY WITH THE DRAWINGS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- B. ENERGY CODE. LIGHT FIXTURES ARE TO COMPLY WITH THE FLORIDA ENERGY CODE. FULL COMPLIANCE WITH THE ENERGY CODE IS REQUIRED, WITH PROVISIONS FOR AUTOMATIC SHUT-OFF OF LIGHTING.
- C. CONDUCTORS. ALL CONDUCTORS ARE TO BE COPPER THWN UNLESS OTHERWISE SHOWN OR REQUIRED BY CODES. ALL POWER CONDUITS ARE TO CONTAIN A GROUND WIRE.
- D. RACEWAYS. RIGID GALVANIZED CONDUIT AND ELECTRICAL METAL TUBING IS TO BE USED IN INTERIOR SPACES.
- E. HVAC. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THE HEATING, VENTILATING AND AIR CONDITIONING (HVAC) TRADE TO MAKE CERTAIN ALL POWER CIRCUITS, CONTROL CIRCUITS AND CONDUITS ARE INCLUDED IN THE BIDS. ALL HVAC EQUIPMENT IS TO BE PROTECTED WITH FUSES (DUAL ELEMENT) SIZED EXACTLY IN ACCORDANCE WITH THE EQUIPMENT LABELS. SPLIT SYSTEM CONDENSING UNITS ARE TO BE CONNECTED WITH CONTROL CIRCUITS. DISCONNECTS ARE TO BE LOCATED WHERE REQUIRED BY THE HVAC CONTRACTOR. UNDER NO CONDITIONS WILL OWNER PAY ADDITIONAL CHARGES FOR HVAC ELECTRICAL WORK.
- F. SHOP DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL FOR ALL ELECTRICAL MATERIALS.
- G. POWER COMPANY. THE ELECTRICAL CONTRACTOR IS TO COORDINATE ALL SERVICE REQUIREMENTS WITH THE POWER COMPANY BEFORE BIDDING TO BE CERTAIN ALL WORK NECESSARY TO MEET POWER COMPANY SPECIFICATIONS IS IN THE BID. ALL ELECTRICAL GEAR SHALL BE APPROVED BY THE POWER COMPANY. THE ELECTRICAL CONTRACTOR SHALL MEET WITH THE POWER COMPANY PRIOR TO BIDDING TO DETERMINE ALL FEATURES, FUNCTIONS AND LOCATIONS OF SERVICE. FURTHERMORE, THE ELECTRICAL CONTRACTOR IS TO MAINTAIN CONTINUOUS CONTACT WITH THE POWER COMPANY DURING THE PROJECT, AND IS TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY CHANGE PROPOSED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SERVICE THOROUGHLY AND DOCUMENT THE COORDINATION.
- H. TELEPHONE. THE ELECTRICAL CONTRACTOR IS TO ARRANGE FOR TELEPHONE SERVICE. PRIOR TO BIDDING, THE ELECTRICAL CONTRACTOR IS TO MEET WITH THE TELEPHONE COMPANY AND COORDINATE THE LOCATION OF THE SERVICE POINT ON THE PROPERTY LINE, THE INCOMING SERVICE CABLE, GROUNDING, ETC. IN ADDITION, THE ELECTRICAL CONTRACTOR IS TO INSTALL TELEPHONE CABLES (8024 CATEGORY 6 CABLE) TO TELEPHONE OUTLET POINTS THROUGHOUT THE PROJECT. ALL CABLES ARE TO BE RADIAL WITH INDIVIDUAL HOME RUNS TO TELEPHONE BACKBOARD OR TERMINAL. DO NOT LOOP FROM OUTLET TO OUTLET.
- I. DRAWINGS. THE ELECTRICAL CONTRACTOR IS TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING, AND IS TO BECOME THOROUGHLY FAMILIAR WITH THE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND LANDSCAPING FEATURES OF THE PROJECT. PRIOR TO BIDDING, THE ELECTRICAL CONTRACTOR SHALL MEET WITH THE ARCHITECT, ENGINEER, AND ALL OTHER TRADES TO OBTAIN A COMPLETE UNDERSTANDING OF CEILING CONFIGURATIONS, WIRING SPACES, FIRE RATED SURFACES, STRUCTURAL FEATURES, AIR CONDITIONING WORK, TEMPORARY POWER REQUIREMENTS, PIPING, PLUMBING AND ALL OTHER FEATURES WHICH BEAR ON THE ELECTRICAL WORK. UNDER NO CONDITIONS IS THIS PROJECT TO BE BID WITHOUT A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS.
- J. SCALES. DO NOT SCALE OR TAKE DIMENSIONS FROM ELECTRICAL DRAWINGS.
- K. MAIN DISCONNECTS. MAIN DISCONNECTS MAY BE HEAVY DUTY FUSED SWITCHES OR CIRCUIT BREAKERS PROPERLY COORDINATED. FUSES ARE TO BE BUSSMAN TYPE 1/4IN, 1/2IN, 3/4IN, OR 1IN. C. CIRCUIT BREAKERS ARE TO BE RATED FOR THE AIC SHORT CIRCUITS INDICATED.
- L. UNDERGROUND WORK. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT ROUTES OF ALL UNDERGROUND WORK. ROUTES SHOWN ARE APPROXIMATE. POWER, TELEPHONE, CABLE CARRIERS, AND ALL OTHER UTILITY COMPANIES SHALL BE CONSULTED, AND LINES SHALL BE STAKED. DIGGING BY HAND IS REQUIRED AROUND EXISTING UTILITIES.
- M. TVSS. THE POWER SERVICE IS TO BE PROTECTED FROM LIGHTNING WITH SURGE SUPPRESSORS THROUGH A 30A3P BREAKER (42,000AIC).
- N. LED LIGHT FIXTURES. LED LIGHTS ARE TO BE CAPABLE OF DIMMING TO 100 WITH DRIVERS AND DIMMERS PROVIDED BY SAME MANUFACTURER. THE CONTRACTOR IS TO INSTALL MULTIPLE CONDUCTORS REQUIRED BY DRIVERS, AND IS TO FIELD MEASURE ALL LOCATIONS AND DIMENSIONS. ALL LENSES, ADJUSTABLE MOUNTING HARDWARE, POWER SUPPLIES, METALLIC HOUSINGS TO BE INCLUDED.
- O. LIGHT FIXTURE VOLTAGES. OBTAIN LIGHT FIXTURE VOLTAGES FROM CIRCUITS ON PLANS. DO NOT OBTAIN FROM MODEL NUMBERS OR LIGHT FIXTURE SCHEDULE.
- P. RECEPTACLE HEIGHTS. COORDINATE WITH BUILDING DEPARTMENT THE MINIMUM HEIGHT FOR RECEPTACLES. AMERICAN DISABILITY ACT REQUIRES 18" ABOVE FINISHED FLOOR.
- Q. EQUIPMENT DISCONNECTS. DISCONNECTS SHOWN CAN BE DELETED IF DISCONNECT MEANS BUILT IN AND PERMITTED BY THE BUILDING DEPARTMENT.
- R. COMPLETION REQUIREMENTS. WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR TO BUILDING OWNER WITH A SINGLE LINE DIAGRAM OF THE DISTRIBUTION SYSTEM PLUS FLOOR PLANS SHOWING LOCATIONS AND AREAS SERVED.
- S. OPERATING AND MAINTENANCE MANUALS. OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT SHALL BE TURNED OVER BY THE CONTRACTOR TO OWNER WITH SUBMITTAL DATA AND REQUIRED MAINTENANCE PROCEDURES. THE NAME AND ADDRESS OF A QUALIFIED SERVICE AGENCY SHALL BE PROVIDED.
- T. SHARED NEUTRALS. WHENEVER THE CONTRACTOR USES SHARED NEUTRALS, BREAKERS ARE TO HAVE A COMMON HANDLE (E.G. 2 POLE OR 3 POLE).
- U. GFCI. OUTLETS INSTALLED OUTDOORS, WITHIN 6" OF A SINK, AND OTHERWISE REQUIRED BY CODE ARE TO BE ON GFCI TYPE CIRCUIT BREAKERS.
- V. WHERE DISCREPANCY EXISTS BETWEEN DRAWINGS, SPECIFICATION, CODES, STANDARDS, QUANTITIES AND THE LIKE THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED.

ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS. PROVIDE ALL LABOR, MATERIALS, TOOLS, SUPPLIES, EQUIPMENT AND TEMPORARY POWER FACILITIES TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL SYSTEMS ARE TO BE COMPLETELY OPERATIONAL. ALL ELECTRICAL WORK SHALL COMPLY WITH THE DRAWINGS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES, WHICHEVER IS MOST STRINGENT.

OPERATING CLEARANCES. INSTALL ALL WORK NEATLY SO AS TO BE PROPERLY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.

JOB SITE VISIT. VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID. VERIFY ALL DIMENSIONS AND DETERMINE THE CHARACTERISTICS OF EXISTING FACILITIES WHICH WILL AFFECT THE PERFORMANCE OF THE WORK, INCLUDING THOSE NOT SHOWN ON DRAWINGS OR SPECIFICATIONS.

SUBSTITUTIONS. ALL EQUIPMENT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO BIDDING.

TEMPORARY LIGHT AND POWER. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING ALL MATERIAL AND EQUIPMENT REQUIRED TO PROVIDE LIGHT AND POWER TO PERFORM ALL WORK OF ALL TRADES UNDER CONSTRUCTION, AND UNTIL WORK IS COMPLETE. COST OF ALL POWER CONSUMED DURING CONSTRUCTION SHALL BE PAID BY THE PARTY DESIGNATED BY THE PRIME CONTRACTOR.

MATERIAL SUBMITTALS. SUBMIT ELECTRONIC PDF SHOP DRAWINGS AND EQUIPMENT DESCRIPTIONS FOR ALL ELECTRICAL WORK PRIOR TO ORDERING. ELECTRICAL MATERIALS FOUND ON THE PROJECT WHICH DO NOT HAVE THE ENGINEER'S APPROVAL MUST BE REMOVED AND REPLACED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

TRENCHING, BORING AND BACKFILLING. EXCAVATION OR BORING, BACKFILLING AND REPAIRING OF PAVING AND GRASSING IS TO BE IN THE BID OF THE ELECTRICAL CONTRACTOR. THE ACTUAL WORK NEED NOT BE PERFORMED BY THE ELECTRICAL TRADES. HOWEVER, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, BORING, DEWATERING, BACKFILLING, TAMPING AND REPAIR OF PAVEMENTS AND GRASSING REQUIRED IN SUPPORT OF ELECTRICAL WORK. LOCATE AND PROTECT EXISTING UTILITIES AND OTHER UNDERGROUND WORK IN A MANNER WHICH WILL ENSURE THAT NO DAMAGE OR SERVICE INTERRUPTION WILL RESULT FROM EXCAVATING OR BACKFILLING. THE ELECTRICAL CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ANY DAMAGE TO UTILITIES OR PROPERTY. PROTECT PROPERTY FROM DAMAGE WHICH MIGHT RESULT FROM EXCAVATING, BORING OR BACKFILLING. PROTECT PERSONS FROM INJURY AT EXCAVATIONS BY BARRICADES WITH WARNINGS AND ILLUMINATION. IN THE EVENT, IT IS SUSPECTED THAT ACTIVE ELECTRICAL LINES ARE BURIED IN THE AREA OF WORK, POWER IS TO BE DISCONNECTED. AN UNDERGROUND LOCATOR SERVICE SHALL BE EMPLOYED.

TESTS. CONDUCT OPERATING TESTS FOR APPROVAL. THE SYSTEMS SHALL BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR AN AUTHORIZED REPRESENTATIVE. FURNISH ALL ITEMS REQUIRED TO PERFORM TESTS.

DIVISION OF WORK. ALL POWER WIRING IS TO BE BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF DISCONNECTS, STARTERS, THERMOSTATS, FIRESTATS, CONTROL TRANSFORMERS, SWITCHES, ETC. WITH THE OTHER CONTRACTORS TO MAKE CERTAIN NO ITEMS ARE LEFT OUT OF THE BIDS. THE PRIME CONTRACTOR SHALL MAKE ANY SPECIAL DECISIONS REGARDING THE DIVISION OF WORK BETWEEN CONTRACTORS. IN NO EVENT SHALL SUCH WORK REQUIRE ADDITIONAL EXPENSE TO THE OWNER.

LOCATIONS. THE ENGINEER MAY MOVE ANY ELECTRICAL DEVICES BY AS MUCH AS TEN (10) FEET PRIOR TO ROUGH-IN AT NO ADDITIONAL COST.

CIRCUITS. ALL OUTLETS, LIGHT FIXTURES AND OTHER ITEMS OF EQUIPMENT SHOWN ON DRAWINGS ARE TO BE CIRCUITED.

BIDDING FROM A FULL SET OF DRAWINGS. THE ELECTRICAL CONTRACTOR IS TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING, AND IS TO BECOME THOROUGHLY FAMILIAR WITH THE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL AND LANDSCAPING FEATURES OF THE PROJECT.

PRIOR TO BIDDING, THE ELECTRICAL CONTRACTOR IS TO HAVE A COMPLETE UNDERSTANDING OF CEILING CONFIGURATIONS, WIRING SPACES, FIRE RATED SURFACES, FOUNDATIONS, AIR CONDITIONING DUCTWORK, SPRINKLER PIPING, PLUMBING AND ALL OTHER FEATURES WHICH BEAR ON THE ELECTRICAL WORK. UNDER NO CONDITIONS IS THIS PROJECT TO BE BID WITHOUT A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS.

FIRE RATED SURFACES. FIRE WALL, CEILING AND FLOOR PENETRATIONS ARE TO BE MADE WITH METALLIC RACEWAYS IN A U.L. APPROVED MANNER. DO NOT KNOCK HOLES INTO VOID SPACES OR OTHERWISE DEGRADE FIRE WALLS. ALL PASSAGES INTO OR THROUGH FIRE WALLS ARE TO BE PERFORMED IN A MANNER ACCEPTABLE TO THE BUILDING DEPARTMENT. (NO PENETRATIONS ARE PERMITTED THROUGH FOUR (4) HOUR WALLS). ONE (1) HOUR FIRE WALLS ARE TO BE PENETRATED IN EACH STUD CAVITY FROM ONLY ONE (1) SIDE IN A U.L. APPROVED MANNER.

BASIC MATERIALS AND METHODS

U.L. APPROVALS. ALL ELECTRICAL MATERIALS ARE TO BE APPROVED BY THE UNDERWRITER'S LABORATORIES.

GALVANIC ACTION (CORROSION). GALVANIC ACTION (CORROSION) IS TO BE AVOIDED BY JOINING METALS WHICH ARE COMPATIBLE. FOR EXAMPLE, ALUMINUM CONDUITS ARE NOT TO MAKE CONTACT WITH BARE STEEL, GALVANIZED STEEL, OR BRASS. STAINLESS STEEL FITTINGS AND HARDWARE ARE REQUIRED OUTSIDE.

GALVANIZED RIGID CONDUITS. RIGID STEEL CONDUIT "GRC" AND FITTINGS ARE TO BE SCHEDULE 40 MILD STEEL PIPE, GALVANIZED. UNDERGROUND GRC CONDUITS ARE TO BE COATED WITH ASPHALT EMULSION TO RESIST CORROSION.

ELECTRICAL METAL TUBING. TUBING "EMT" SHALL BE STEEL TUBING, ZINC-COATED INSIDE AND OUTSIDE. FITTINGS SHALL BE ZINC-COATED. BENDS WHICH TURN UP OUT OF CONCRETE SHALL BE TREATED WITH ASPHALT EMULSION TO RESIST CORROSION.

PVC CONDUITS. NON-METALLIC CONDUITS SHALL BE POLYVINYL CHLORIDE (PVC), U.L. APPROVED FOR 90C. SCHEDULE 40 RIGID, EXCEPT SIZES ARE TO BE SCHEDULE 80. STRAIGHT RUNS ARE TO HAVE EXPANSION COUPLINGS EVERY 40 FEET.

ELECTRICAL SPECIFICATIONS

NON-METALLIC TUBING. ENT MAY NOT BE USED.

RACEWAY LOCATIONS. LOCATION REQUIREMENTS SET FORTH BY THE BUILDING DEPARTMENT SHALL PREVAIL. IF MORE STRINGENT, ALL CONDUITS SHALL BE GRC EXCEPT WHERE OTHERWISE SHOWN ON DRAWINGS, AND AS FOLLOWS: ENT MAY BE USED ONLY IN DOORS, IN DRY LOCATIONS, OUT OF SOIL, WHERE NOT PHYSICALLY SUBJECT TO DAMAGE. FLEXIBLE CONDUIT SHALL BE USED ONLY IN SHORT LENGTHS FOR MAKING EQUIPMENT CONNECTIONS. PVC CONDUITS SHALL BE USED ONLY UNDERGROUND OR IN CONCRETE FLOORS. METALLIC RACEWAYS ARE REQUIRED IN CEILING SPACES WHICH SERVE AS RETURN AIR PLENUMS. CONDUITS SHALL NOT BE RUN ABOVE ROOFS.

RACEWAY INSTALLATION. WHERE CONDUITS CROSS EXPANSION JOINTS, INSTALL OFFSET EXPANSION JOINTS OR SLIDING EXPANSION JOINTS WITH BONDING STRAPS AND CLAMPS. EXPOSED RUNS OF CONDUIT OR TUBING SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS. CONDUITS IN STRUCTURAL SLABS SHALL BE PLACED BETWEEN THE UPPER AND LOWER REINFORCING STEEL. CONDUITS SHALL ALWAYS BE CONCEALED EXCEPT WHERE INDICATED ON PLANS. A PULL WIRE SHALL BE INSTALLED IN ALL EMPTY CONDUITS. CONDUITS SHALL BE SUPPORTED BY APPROVED PIPE STRAPS, SECURED BY MEANS OF TOGGLE BOLTS ON METAL SURFACES, AND WOOD SCREWS ON WOOD CONSTRUCTION. THE USE OF PERFORATED STRAP OR WIRES WILL NOT BE PERMITTED. UNDERGROUND CONDUITS NOT UNDER CONCRETE SLABS ARE TO BE BURIED AT LEAST TWO (2) FEET BELOW FINISHED GRADE FOR CIRCUITS RATED 600 VOLTS OR LESS.

CABINETS. CABINETS FOR OUTDOOR SWITCHES, PANELBOARDS, BREAKERS, WIREWAYS, RECEPTACLES, FIRE ALARM EQUIPMENT, ETC. SHALL BE RATED WEATHERPROOF. STAINLESS STEEL IS REQUIRED FOR ALL EXTERIOR MOUNTED ELECTRICAL EQUIPMENT ENCLOSURES UNLESS OTHERWISE NOTED OR SPECIFIED.

MAIN DISCONNECTS. UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL MAIN DISCONNECTS ARE TO BE HEAVY DUTY FUSED SWITCHES OR CIRCUIT BREAKERS. GENERAL DUTY SWITCHES SHALL BE REMOVED AND REPLACED AT THE ELECTRICAL CONTRACTOR'S EXPENSE. FUSES SHALL BE REJECTION TYPE, U.L. CLASS RK1, UNLESS SHOWN OTHERWISE.

SHORT CIRCUIT DESIGN. THE DESIGN CALLS FOR A NUMBER OF SPECIAL CONDITIONS IN ORDER TO HANDLE THE SHORT CIRCUITS AVAILABLE THROUGHOUT THE ELECTRICAL SYSTEM. UNDER NO CONDITIONS MAY THE ELECTRICAL CONTRACTOR DEViate FROM THE DESIGN IN TYPES OF SWITCHES, FUSES, CONDUCTORS, BREAKERS OR AIC RATINGS OF INTERRUPTING DEVICES.

WIRING DEVICES GENERAL. WIRING DEVICES SHALL BE RATED FOR CURRENT, VOLTAGE AND PHASES AS APPLICABLE FOR THE LOADS. WHERE BOXES ARE TO BE MOUNTED ON OPPOSITE SIDES OF A WALL, A MINIMUM SEPARATION OF TWELVE (12") INCHES SHALL BE MAINTAINED. NO THROUGH BOXES ARE PERMITTED. BOXES SHALL BE MOUNTED LEVEL AND PLUMB.

SWITCHES ARE TO BE SILENT, 20A, 120V.

RECEPTACLES. NEMA 5-20R RECEPTACLES SHALL BE STANDARD TYPES EXCEPT WHERE SPECIAL RECEPTACLES ARE SHOWN. SPECIAL RECEPTACLES ARE TO MATCH EQUIPMENT PLUGS AS COORDINATED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL PLUGS AND CORDS OR WATER HEATERS, DISHWASHERS, DISPOSALS, CLOSURES, WASHERS, DRYERS, ETC., UNLESS PROVIDED BY OTHER TRADES. COORDINATE PRIOR TO BIDDING.

FACE PLATES. FACE PLATES ARE REQUIRED IN INTERIOR SPACES. COLORS ARE TO BE SELECTED BY THE ARCHITECT. OUTSIDE PLATES AND COVERS SHALL BE MOUNTED PLUMB, STRAIGHT, AND FIT FLUSH WITH FINISHED SURFACES WITHOUT THE USE OF SHIMS OR WATS. PLATES SHALL NOT SUPPORT WIRING DEVICES. COMMON GANGED PLATES ARE TO BE EMPLOYED WHEREVER TWO (2) OR MORE DEVICES ARE SHOWN ON THE DRAWINGS IN THE SAME LOCATIONS.

PANELBOARDS. PANELBOARDS SHALL BE DEAD-FRONT, CIRCUIT BREAKER TYPE. DIRECTORIES SHALL BE COMPLETE AND TYPEWRITTEN. LOADCENTERS ARE NOT PERMITTED.

MOLDED CASE CIRCUIT BREAKERS. BREAKERS SHALL BE THERMAL-MAGNETIC OPERATED, WITH SHORT CIRCUIT RATINGS IN SYMMETRICAL AMPERES EQUAL TO OR GREATER THAN THE AIC RATINGS SHOWN ON THE DRAWINGS.

MOTOR PROTECTION. ALL MOTORS ON THIS PROJECT ARE TO BE FULLY PROTECTED IN ACCORDANCE WITH THE NEC. EVERY MOTOR IS TO BE PROTECTED FROM OVERCURRENTS BY THE INSTALLATION OF FUSED SWITCHES LOCATED IN SIGHT OF MOTORS. EACH AIR HANDLING UNIT IS TO BE FED WITH A FUSED SWITCH FOR THE HEATER, AND A SECOND FUSED SWITCH FOR THE MOTOR (MOTOR SWITCH MAY BE ELIMINATED IF THE AHU IS EQUIPPED WITH INTEGRAL PROTECTION COORDINATED PRIOR TO BIDDING).

IN APPLICATIONS WITH MOTORS OVER ONE (1) HORSEPOWER, AND WHERE CONTROLS OTHER THAN MANUAL 'ON' AND 'OFF' ARE REQUIRED, MAGNETIC COIL OPERATORS ARE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR PROPER VOLTAGES, ENCLOSURE TYPES AND START/STOP OR HAND-OFF-AUTO SWITCHES AS REQUIRED BY THE APPLICATION. OVERLOAD ELEMENTS ARE REQUIRED FOR EVERY LEG ABOVE GROUND. STARTERS SHALL BE ALLEN-BRADLEY OR SQUARE D.

CONDUCTORS. CONDUCTORS SHALL BE RATED FOR 600 VOLTS. ALL CONDUCTORS ARE TO BE COPPER. INSULATION SHALL BE TYPE THWN, EXCEPT WHERE SHOWN OTHERWISE. EVERY RACEWAY IS TO HAVE A GROUND WIRE (EXCEPT SERVICE).

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE OUTLET NEMA 5-20R
	DUPLEX RECEPTACLE OUTLET NEMA 5-20R SPLIT WIRED
	DUPLEX RECEPTACLE OUTLET NEMA 5-20R UNDER COUNTER
	SPECIAL PURPOSE OUTLET NEMA 5-20R UNDER COUNTER
	SPECIAL PURPOSE OUTLET MUST MATCH EQUIP. PLUG
	FLOOR OUTLET W/ BRASS PLATE & CARPET RING
	SPST SWITCH
	3-WAY SWITCH
	4-WAY SWITCH
	SPST SWITCH W/ PILOT LIGHT
	DIMMER SWITCH WATTAGE AS NOTED
	LIGHT FIXTURE (SURFACE / RECESSED)
	LIGHT FIXTURE WALL MOUNTED
	FLUORESCENT LIGHT FIXTURE (SURFACE / RECESSED)
	FLUORESCENT LIGHT FIXTURE (SURFACE / RECESSED) EMERG.
	FLUORESCENT STRIP LIGHT FIXTURE
	EMERGENCY BATTERY PACK LIGHT FIXTURE W/ (2) 25W LTS.
	EXIT SIGN, UNIVERSAL MOUNTING (DOUBLE / SINGLE FACE) ARROWS AS INDICATED
	FUSED SWITCH, 30A SWITCH, 20A FUSES, 2 POLES
	MOTOR STARTER, NEMA SIZE 1
	SWITCH/STARTER, 30A, NEMA 1, 3 POLE
	PANELBOARDS, SEE SCHEDULES
	TIME CLOCK SWITCH, 4P-ASTRONOMIC W/RESERVE
	TELEPHONE RECEP-4X4 BOX WITH SINGLE GANG ADAPTER AND 3/4" EMT TO ACCESSIBLE CEILING SPACE
	DATA RECEP-4X4 BOX WITH SINGLE GANG ADAPTER AND 3/4" EMT TO ACCESSIBLE CEILING SPACE
	MOTOR
	STRIP HEATER W/ INTEGRAL CONTACTOR
	VOLUME CONTROL -144"
	QUADPLEX RECEP
	CLOCK -1/40" SEE RISER
	FIRE ALARM CONTROL PANEL EST-101000
	FIRE ALARM ANNUNCIATOR PANEL RLCD-C
	SMOKE DETECTOR WIBASE SIGA-OSD/ SIGA-SB4
	HEAT DETECTOR WIBASE SIGA-SB4
	DUCT DETECTOR SIGA-SD
	REMOTE TEST STATION SD-TRK
	PULL STATION SIGA-27B
	CONTROL RELAY MODULE SIGA-CR
	SINGLE INPUT MODULE SIGA-CT1
	DUAL INPUT MODULE SIGA-CT2
	TAMPER SWITCH F.B.O
	WATERFLOW SWITCH F.B.O
	HORN STROBE G4AVRF
	WEATHERPROOF HORN STROBE WG4RF-HVMC
	STROBE G4VRF
	VOLTAGE SURGE PROTECTOR - 120 VAC DITEK DTK-120HW
	VOLTAGE SURGE PROTECTOR - TELEPHONE LINES DITEK DTK-MR0333CPWP
	SYSTEM RECORD DOCUMENTS SSU00689
	CELL DIALER SLE-LTEA-CFB-PS

DEVICE MOUNTING HEIGHTS

LIGHT SWITCHES	48" A.F.F. TO CENTER LINE OF BOX, UON
RECEPTACLES	18" A.F.F. TO CENTER LINE, UON
COUNTER HEIGHT RECEPTACLES	48" A.F.F. TO CENTER LINE OR 2" ABOVE SPLASHBOARD, UON
DATA OUTLETS	18" A.F.F. TO CENTER LINE, UON
TELEPHONES	48" A.F.F. TO CENTER LINE OF BOX, UON
EXTERIOR RECEPTACLES	24" A.F.G. TO BOTTOM, UON

ALL HEIGHTS ARE BASED ON NON-OBSTRUCTED REACH. MODIFY MOUNTING HEIGHTS IF/AS NECESSARY PER ADA AS REQUIRED. REFER TO ARCHITECTURAL ELEVATION FOR SPECIFIC HEIGHTS SPECIFIED THEREIN.

MINIMUM CONDUCTOR SIZING FOR 120V/1Ø BRANCH CIRCUITS							MINIMUM CONDUCTOR SIZING FOR 208V/1Ø BRANCH CIRCUITS									
(FOR FRC 13-413.BC.1 COMPLIANCE) DESIGN LOAD ON CIRCUIT IN VA (FROM PANELBOARD SCHEDULE) UP TO:							(FOR FRC 13-413.BC.1 COMPLIANCE) DESIGN LOAD ON CIRCUIT IN VA (FROM PANELBOARD SCHEDULE) UP TO:									
UP TO LENGTH OF CIRCUIT	500	1000	1500	2000	2500	3000	UP TO LENGTH OF CIRCUIT	1000	1500	2000	2500	3000	3500	4000	4500	5000
50'	12	12	12	12	10	10	50'	12	12	12	12	12	10	10	10	8
100'	12	12	12	10	8	8	100'	12	12	12	12	10	10	10	10	8
150'	12	10	8	6	6	4	150'	12	12	12	10	10	8	8	8	8
200'	10	8	6	4	4	4	200'	12	12	10	10	8	8	8	6	6
250'	10	6	6	4	4	3	250'	12	10	10	8	8	6	6	6	6
300'	8	6	4	4	4	2	300'	12	12	8	8	6	6	6	4	4
MINIMUM CONDUCTOR SIZING FOR 277V/1Ø BRANCH CIRCUITS							MINIMUM CONDUCTOR SIZING FOR 208V/3Ø BRANCH CIRCUITS									
(FOR FRC 13-413.BC.1.2 COMPLIANCE) DESIGN LOAD ON CIRCUIT IN VA (FROM PANELBOARD SCHEDULE) UP TO:							(FOR FRC 13-413.BC.1.2 COMPLIANCE) DESIGN LOAD ON CIRCUIT IN VA (FROM PANELBOARD SCHEDULE) UP TO:									
UP TO LENGTH OF CIRCUIT	2000	3000	4000	5000			UP TO LENGTH OF CIRCUIT	1500	2000	2500	3000	3500	4000	4500	5000	
50'	12	12	12	10	10		50'	12	12	12	12	12	12	12	12	
100'	12	12	12	12	10		100'	12	12	12	12	12	12	12	12	
150'	12	12	12	10	10		150'	12	12	12	12	12	10	10	10	
200'	12	10	10	10	8		200'	12	12	12	10	10	10	10	10	
250'	12	10	10	8	8		250'	12	12	10	10	10	10	8	8	
300'	10	8	8	8	8		300'	12	10	10	10	10	8	8	8	
MINIMUM CONDUCTOR SIZING FOR 480V/3Ø BRANCH CIRCUITS							VOLTAGE DROP CONSIDERATIONS									
(FOR FRC 13-413.BC.1.2 COMPLIANCE) DESIGN LOAD ON CIRCUIT IN VA (FROM PANELBOARD SCHEDULE) UP TO:							CONDUCTORS SHOWN ON CONTRACT DOCUMENTS ARE MINIMUM SIZE BASED ON OVER-CURRENT PROTECTION PROVIDED. EACH FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZE IS TO BE DETERMINED BY THE CONTRACTOR AFTER ACTUAL CIRCUIT CONDUCTOR LENGTH IS KNOWN AND VOLTAGE DROP CALCULATIONS PERFORMED. PROVIDE REDLINE AS-BUILT INFORMATION TO ENGINEER FOR INCORPORATION ON OWNERS RECORD SET WITH ACTUAL CONDUCTOR SIZES USED.									
UP TO LENGTH OF CIRCUIT	10,000	15,000	20,000	25,000	30,000											
100'	12	10	8	8	8											
200'	12	10	8	8	8											
300'	12	10	8	8	6											

ELECTRICAL ABBREVIATIONS

A OR AMP	- AMPERE	LSC	- LOCAL CONTROL STATION
AC	- ALTERNATING CURRENT	LTG	- LIGHTING
AF	- AIR FRAME	M	- MOTOR
AFF	- ABOVE FINISHED FLOOR	MC	- MOTOR CONTROL
AH	- AUTHORITY HAVING	MCA	- MINIMUM CIRCUIT AMPACITY
JURISDICTION		MCB	- MAIN CIRCUIT BREAKER
AHU	- AIR HANDLING UNIT	MCC	- MOTOR CONTROL CENTER
AMP	- AMP TRIP	MCP	- MOTOR CIRCUIT PROTECTION
ATC/MSE/MS	- HVAC CONTROLS	MDS	- MAIN DISTRIBUTION SWITCHBOARD
ATS	- AUTOMATIC TRANSFER SWITCH	MFR	- MANUFACTURER
ARC	- ARC INTERRUPTING CAPACITY	MI	- MOUNTING HEIGHT
BRKR	- BREAKER	MI	- MINERAL INSULATED
C or COND	- CONDUIT	ML	- MAIN LUGS ONLY
CB	- CIRCUIT BREAKER	MM	- MOMENT
CD	- CORD	MOP	- MAXIMUM OVERCURRENT PROTECTION
CKT	- CIRCUIT	MS	- MOTOR STARTER
CP	- CONTROL PANEL	MSB	- MAIN SWITCHBOARD
CP	- CONTROL POWER TRANSFORMER	N	- NEW
CT	- CURRENT TRANSFORMER	NA	- NOT APPLICABLE
CU	- COPPER	NC	- NORMALLY CLOSED
CU	- CONDENSING UNIT	NEC	- NATIONAL ELECTRICAL CODE
DC	- DIRECT CURRENT	NEMA	- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
DISC OR DS	- DISCONNECT	NF	- NON-FUSED
DV	- DIVISION	NFPA	- NATIONAL FIRE PROTECTION ASSOCIATION
DN	- DOWN	NFSS	- NON-FUSED SAFETY SWITCH
DPV	- DRY PIPE VALVE CABINET	NC	- NOT IN CONTRACT
DWG	- DRAWING	NIC	- NORMALLY OPEN
ED or EXIST	- EXISTING	OCOP	- OVERCURRENT PROTECTION DEVICE
ELEV	- ELEVATOR	P	- POLE
ELEC	- ELECTRICAL	PH OR Ø	- PHASE
EMR	- EMERGENCY	PM	- POWER ROLE
EMT	- ELEVATOR MACHINE ROOM	PPA	- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
EP	- EXPLOSION PROOF	PB	- PULL BOX
EPD	- EMERGENCY POWER OFF	PC	- PHOTOCELL
EUH	- ELECTRIC UNIT HEATER	PMT	- PAD MOUNTED TRANSFORMER
EWC	- ELECTRIC WATER COOLER	PNC	- PANELBOARD
BWH	- ELECTRIC WATER HEATER	PLC	- PROGRAMMABLE LOGIC CONTROLLER
F	- FIRE	PT	- POTENTIAL TRANSFORMER
FA	- FIRE ALARM	RCPT OR RECEPT	- RECEPTACLE
FCA	- FAULT CURRENT AVAILABLE	RM	- ROOM
FOR	- FAULT CURRENT RATING	RSSD	- REDUCED VOLTAGE SOLID STATE (MOTOR STARTER)
FLA	- FULL LOAD AMPS	SCHD	- SCHEDULE
FSS	- FUSED SAFETY SWITCH	SPO	- SURGE PROTECTIVE DEVICES
FT	- FEET	SWBD	- SWITCHBOARD
FTL	- FEED THRU LUGS	TBD	- TO BE DETERMINED
FU	- FUSE	TDD	- TOTAL HARMONIC DISTORTION
FVNR	- FULL VOLTAGE NON REVERSING	TRB	- TELEPHONE TERMINAL BOARD
FVR	- FULL VOLTAGE REVERSING	TVSS	- TRANSIENT VOLTAGE SURGE SUPPRESSION
G. GND	- GROUND	TYP	- TYPICAL
GP	- GROUND FAULT INTERRUPT	UL	- UNDERWRITERS LABORATORIES
GP	- GROUND FAULT PROTECTION	UNO	- UNLESS NOTED OTHERWISE
HZ	- HERTZ	V	- VOLT
HP	- HORSEPOWER	VFD	- VARIABLE FREQUENCY DRIVE
IBC	- INTERNATIONAL BUILDING CODE	W	- WIRE
IG	- ISOLATED GROUND	W	- WITH
J OR JB	- JUNCTION BOX	WP	- WEATHERPROOF/WATERPROOF
KV	- KILOVOLT	YMR	- TRANSFORMER
KVA	- KILOVA AMPERE	1PH	- SINGLE PHASE
KW	- KILOWATT	3PH	- THREE PHASE
LCP	- LOCAL CONTROL PANEL		
LP	- LIGHTING PANEL		

APPLICABLE BUILDING CODES

FLORIDA BUILDING CODE, 8TH EDITION (2023)
NFPA 70, NATIONAL ELECTRICAL CODE (2020)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023)
FLORIDA ENERGY CONSERVATION CODE, 8TH EDITION (2023)

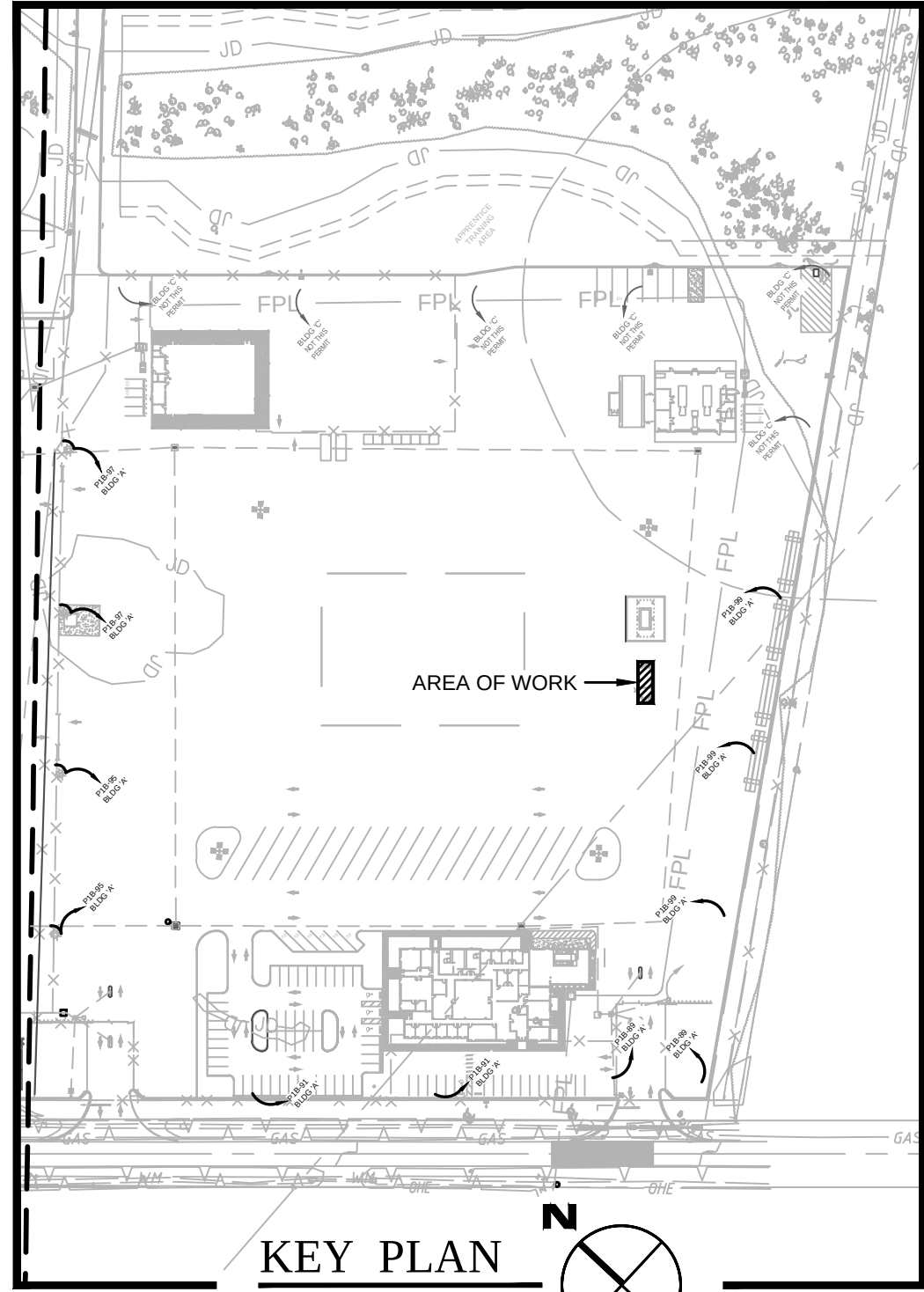
MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN THEIR LATEST REVISIONS.
CONTRACTOR TO COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURERS' SHOP DRAWINGS.
ALL EQUIPMENT SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.

SCOPE OF WORK

THIS PROJECT INVOLVES COMPLETE ELECTRICAL SERVICE AND BRANCH CIRCUIT CONNECTIONS FOR A NEW TRUCK STOCK BLDG. ALL OWNER SUPPLIED EQUIPMENT IS TO BE COMPLETELY CONNECTED IN ADDITION TO LIGHTING. GENERAL RECEPTACLES, HVAC AND MISC EQUIPMENT AS SHOWN. THIS BUILDING IS FED FROM THE FLEET GARAGE. REFER TO THOSE DRAWINGS FOR ADDITIONAL INFORMATION.

ELECTRICAL SHEET INDEX

SHT NO.	DESCRIPTION
B-E001	GENERAL NOTES, SPECIFICATIONS, LEGENDS, INDEX
B-ES101	ELECTRICAL SITE PLAN
B-EP101	POWER & LIGHTING



- ### GENERAL NOTES THIS DRAWING
- COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES
 - REFER TO FPL STANDARDS FOR ALL PRIMARY DUCT BANK INSTALLATION REQUIREMENTS.
 - PROVIDE PULL LINES IN ALL CONDUITS.
 - ALL UTILITY PRIMARY CONDUIT RUNS SHOWN ON THIS SHEET SHALL BE (2) 6" CONDUITS.
 - CONDUIT ROUTING SHOWN IS DIAGRAMMATICAL AND NOT NECESSARILY REPRESENTATIVE OF MOST EFFICIENT ROUTE. CONTRACTOR SHALL FIELD ADJUST ALL SITE CONDUIT ROUTING TO ALLOW FOR SHORTEST POSSIBLE RUNS.
 - EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY A PHOTOCELL CONNECTED TO THE LOW VOLTAGE LIGHTING CONTROL PANEL. MOUNT PHOTOCELL ON EXTERIOR WALL 8' AFG WITH UNOBSTRUCTED VIEW FACING NORTH.
 - UNLESS OTHERWISE NOTED ALL UNDERGROUND CONDUITS SHOWN ARE FOR OWNER PROVIDED AND INSTALLED FIBER AND DATE CABLING FOR SITE SECURITY/IT EQUIPMENT. CONTRACTOR SHALL PROVIDE PULL LINES IN ALL SITE CONDUITS. TOP OF CONDUITS SHALL BE MINIMUM 30" BELOW FINISHED GRADE FOR DIRECT BURIED CONDUIT.
 - ALL SITE LIGHTING FIXTURES SHALL BE MOUNTED AT 30' AFG UNLESS NOTED OTHERWISE.

- ### KEYED NOTES (X)
- BOXED AREA SHALL BE CONSIDERED A CLASS 1 DIVISION 1 LOCATION. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THIS REGION SHALL BE EXPLOSION PROOF. ALL CONDUIT STUB UPS SHALL BE IN RIGID CONDUIT WITH THREADED FITTINGS. PROVIDE SEAL OFFS AT ALL CONDUITS AT BOTH ENDS.
 - EXISTING TO REMAIN

PARTIAL ELECTRICAL SITE PLAN
SCALE : 1" = 20'-0"



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ISSUE FOR:
100% CONSTRUCTION DOCUMENTS

ISSUE DATE:
02/15/2026

NO.	REASON	DATE

DESIGN TEAM:
DAVID LITHGOW

PROJECT MANAGER:
DAVID LITHGOW

DESIGN TEAM:
CEA

PROJECT NAME:
COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING B - TRUCK STOCK
FLORIDA POWER & LIGHT

PROJECT NO.:
814C632800

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
B-ES101

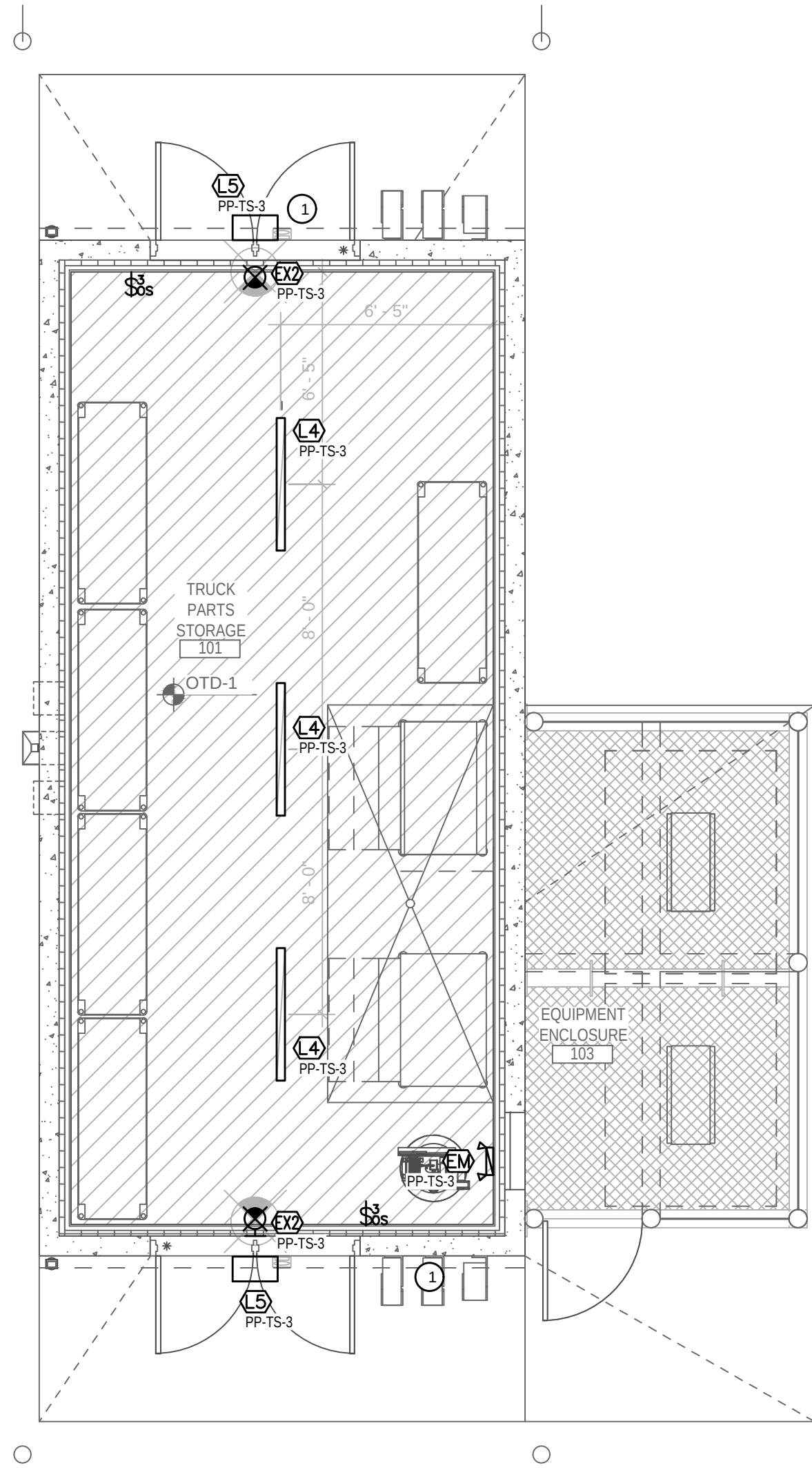
LIGHT FIXTURE SCHEDULE					
TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING
L4	4' LED STRIP METALUX: 4SNLED-LD4-46SL-LW-UNV-L835-CD1-U / WG/SNF-4FT	46	LED	UNV	CHAIN SUSPENDED TO 8' AFF
L5	EXT. WALL PACK MCGRAW EDISON: GWC-AF-02-LED-E1-T2-FINISH-BBB	100	LED	UNV	WALL
EX2	LED EXIT LIGHT WITH EM LIGHT SURELITES: APX7G	1.5	LED	UNV	PENDANT
EM	LED EXIT LIGHT WITH EM LIGHT SURELITES: SEL50	1.5	LED	UNV	PENDANT

GENERAL NOTES THIS DRAWING:

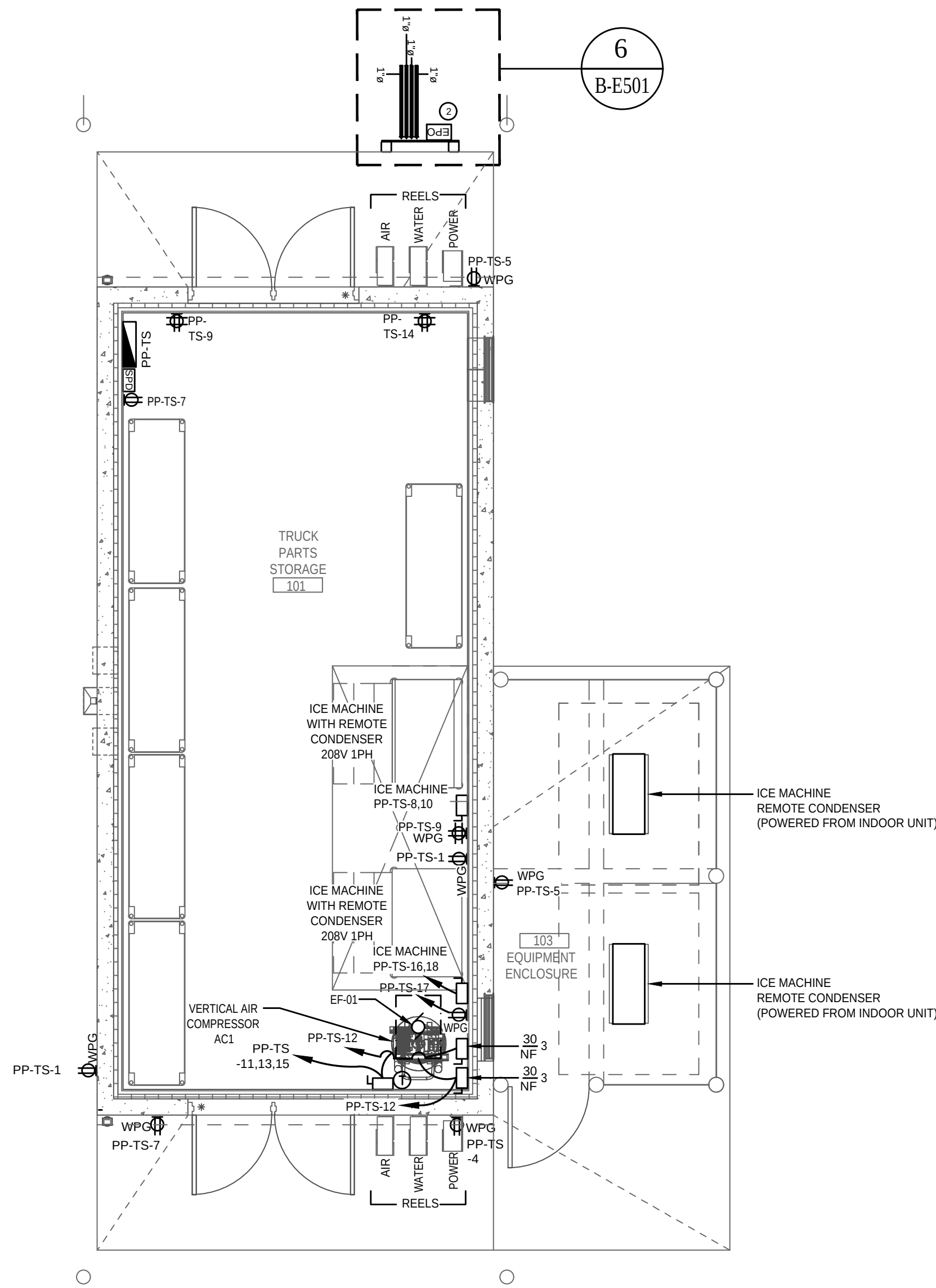
- ALL CIRCUITS SHOWN ON THIS DRAWING SHALL ORIGINATE FROM PANEL "PP-TS".
- COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
- LOCATION OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATION WITH OWNERS REPRESENTATIVE, ARCHITECT, AND/OR ENGINEER PRIOR TO ROUGH-IN.
- ALL RACEWAYS AND CABLE SHALL BE BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER. ALL CONDUIT ROUTING SHOWN IS DIAGRAMMATICAL AND MAY NOT REPRESENT BEST POSSIBLE ROUTE.
- MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
- ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
- ALL LIGHTING ON THIS SHEET SHALL BE CONNECTED TO PP-TS CIRCUIT 3.
- ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT IN EACH AREA AHEAD OF ALL SWITCHING AND CONTROLS.

KEYED NOTES (X)

- EXTERIOR WALL PACKS SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL PROVIDED WITH FIXTURE. REFER TO FIXTURE SCHEDULE SPECIFICATION.
- PROVIDE UNISTRUT EQUIPMENT FRAME FOR INSTALLATION OF OWNER PROVIDE FUEL SYSTEM EQUIPMENT. ROUTE (2) 1" CONDUITS FROM FLEET GARAGE IT ROOM TO THIS LOCATION. PROVIDE (2) 1" CONDUITS FROM EQUIPMENT FRAME TO FUEL STATION EQUIPMENT. REFER TO SITE PLAN PACKAGE SHEET E600 AND E601 FOR MORE INFORMATION. EMERGENCY POWER OFF FOR FUEL EQUIPMENT SHALL BE INSTALLED ON THIS EQUIPMENT FRAME. CONDUITS TO FUEL STATION SHALL BE RIGID CONDUIT WITH THREADED FITTINGS. PROVIDE SEAL OFF FITTINGS FOR THOSE CONDUITS AT BOTH ENDS.
- PANEL PP-TS SHALL BE FED FROM PANEL H1 LOCATED IN FLEET GARGAGE. REFER TO FLEET GARAGE PACKAGE FOR MORE INFORMATION.
- COORDINATE FINAL THERMOSTAT LOCATIONS WITH HVAC AND CONTROLS TRADES. PROVIDE ROUGH-IN BOX AND 3/4" EMPTY CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING SPACE.



LIGHTING PLAN
SCALE: 1/4" = 1'-0"



POWER PLAN
SCALE: 1/4" = 1'-0"

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ISSUE FOR
100% CONSTRUCTION
DOCUMENTS

ISSUE DATE
02/15/2026

REVISIONS

NO.	REASON	DATE
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DESIGNED BY
DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

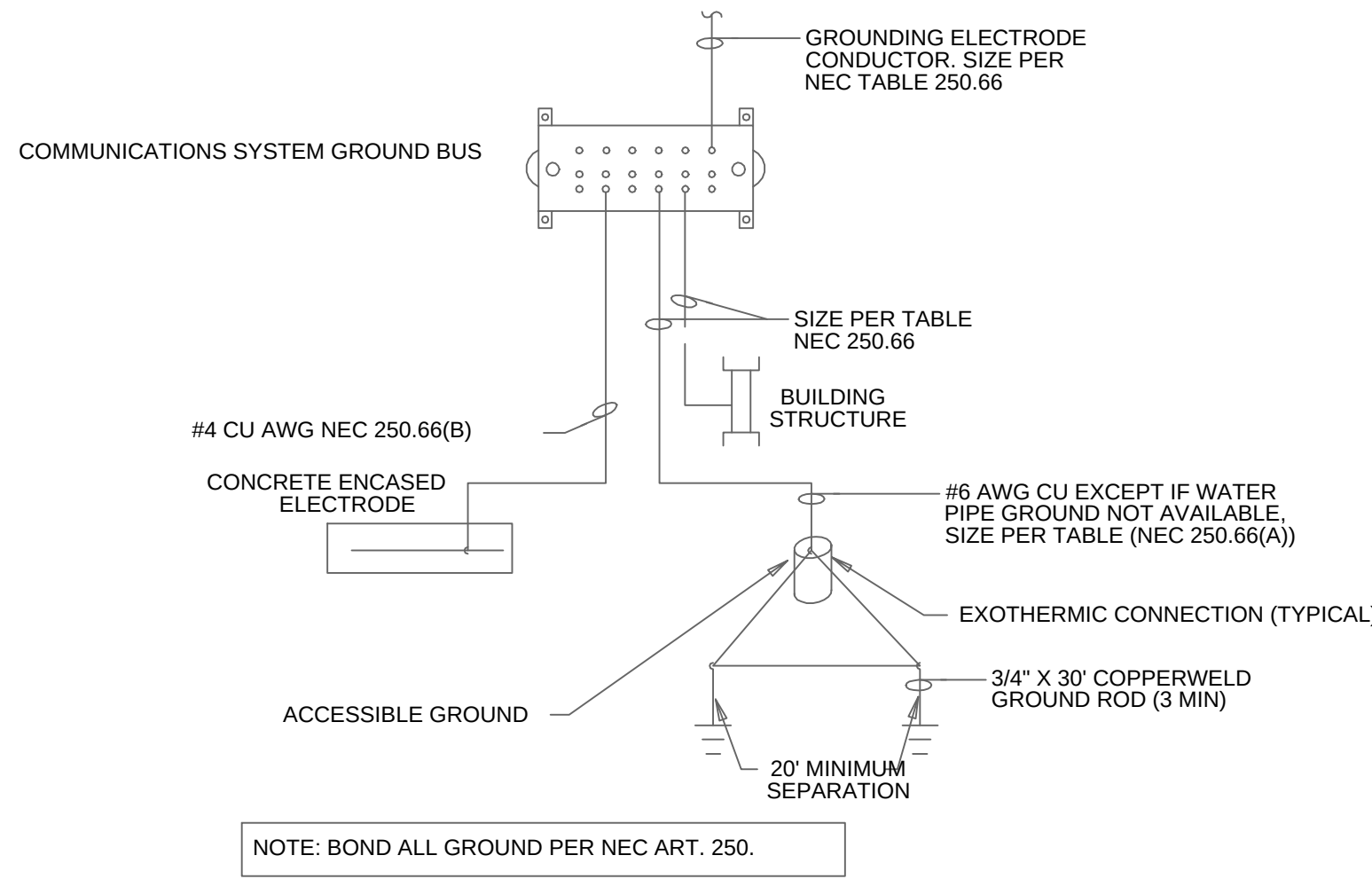
DESIGN TEAM
CEA

PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING B -
TRUCK STOCK
FLORIDA POWER & LIGHT

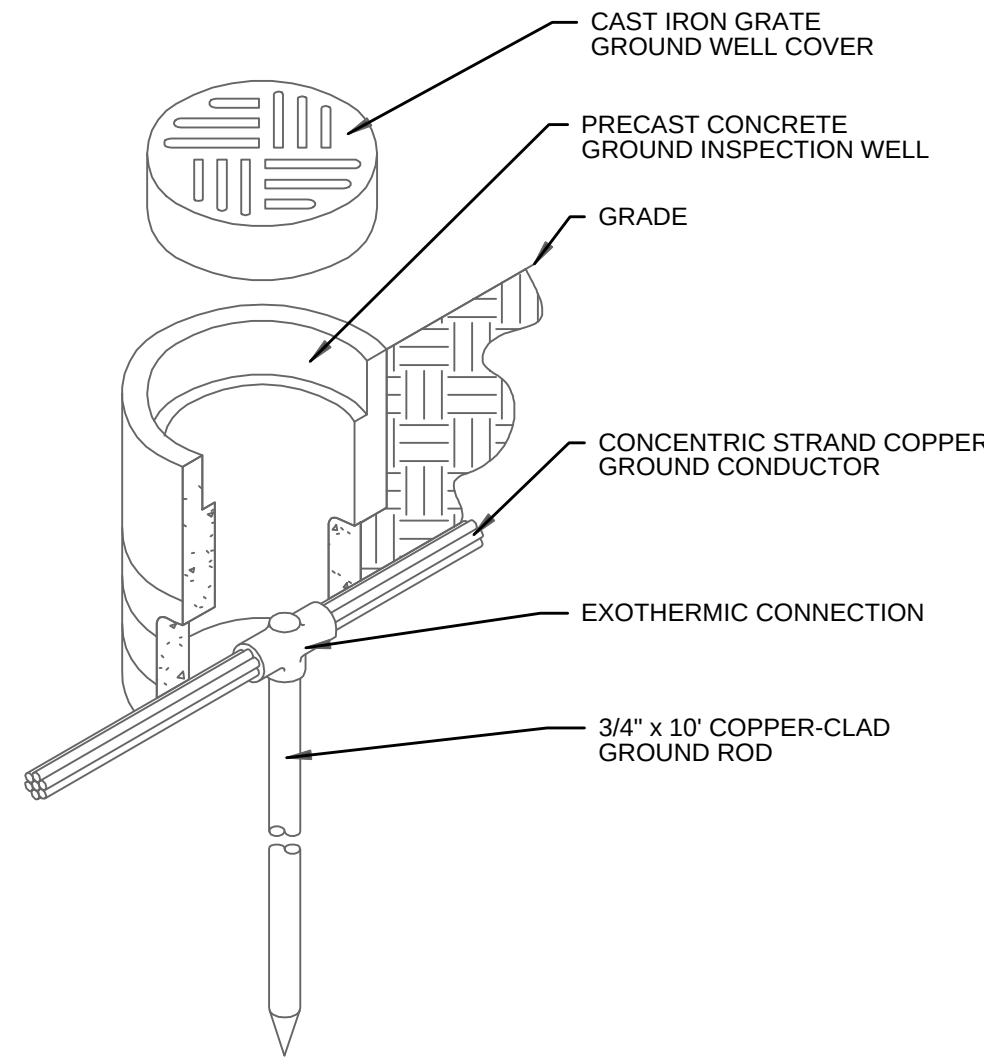
PROJECT NO.
814C632800

SHEET TITLE
POWER & LIGHTING
PLAN

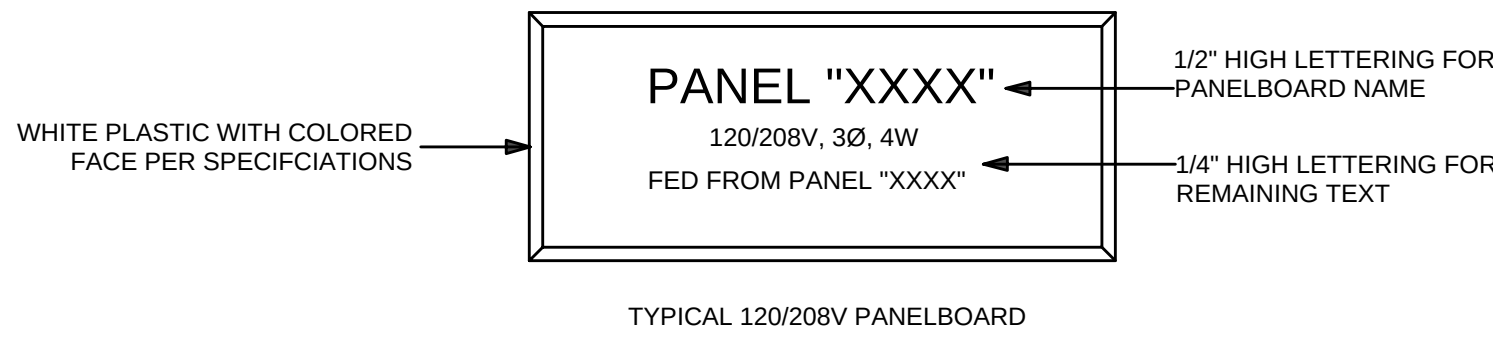
SHEET NUMBER
B-EP101



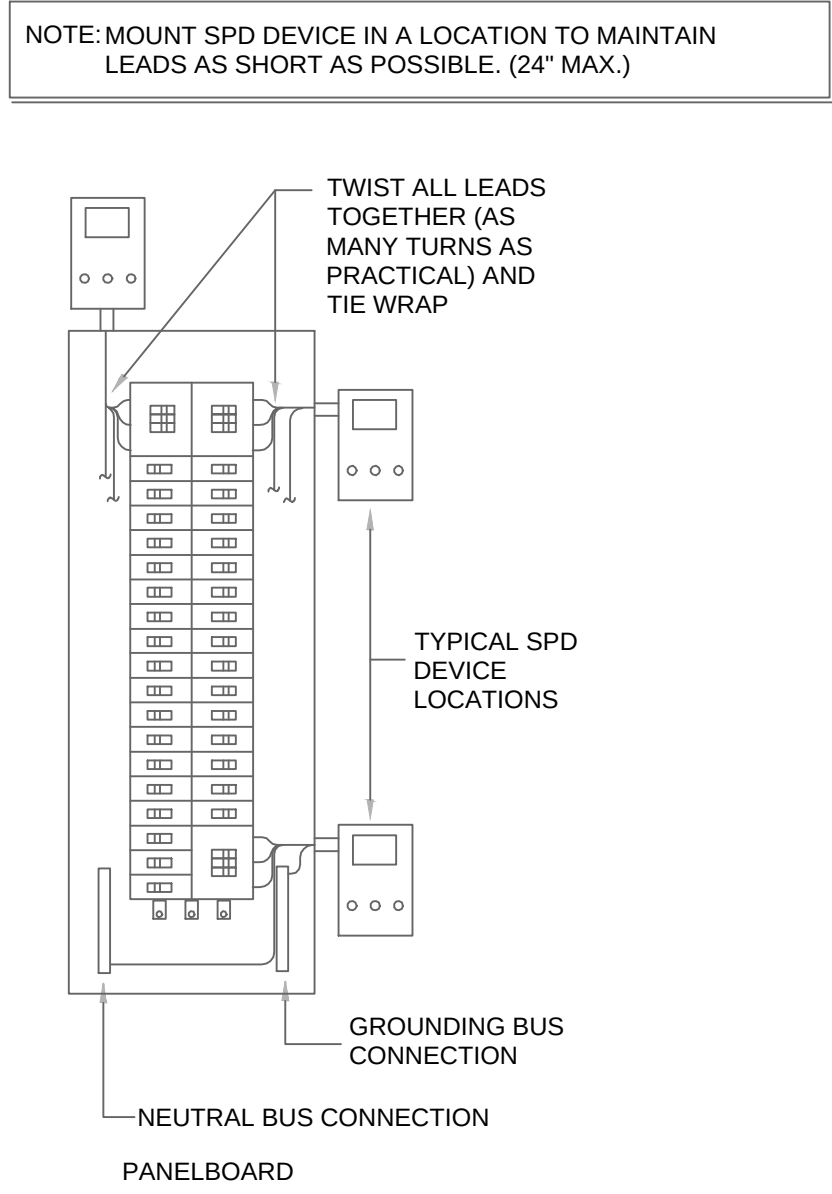
2 SERVICE GROUNDING DETAIL
B-E501 NTS



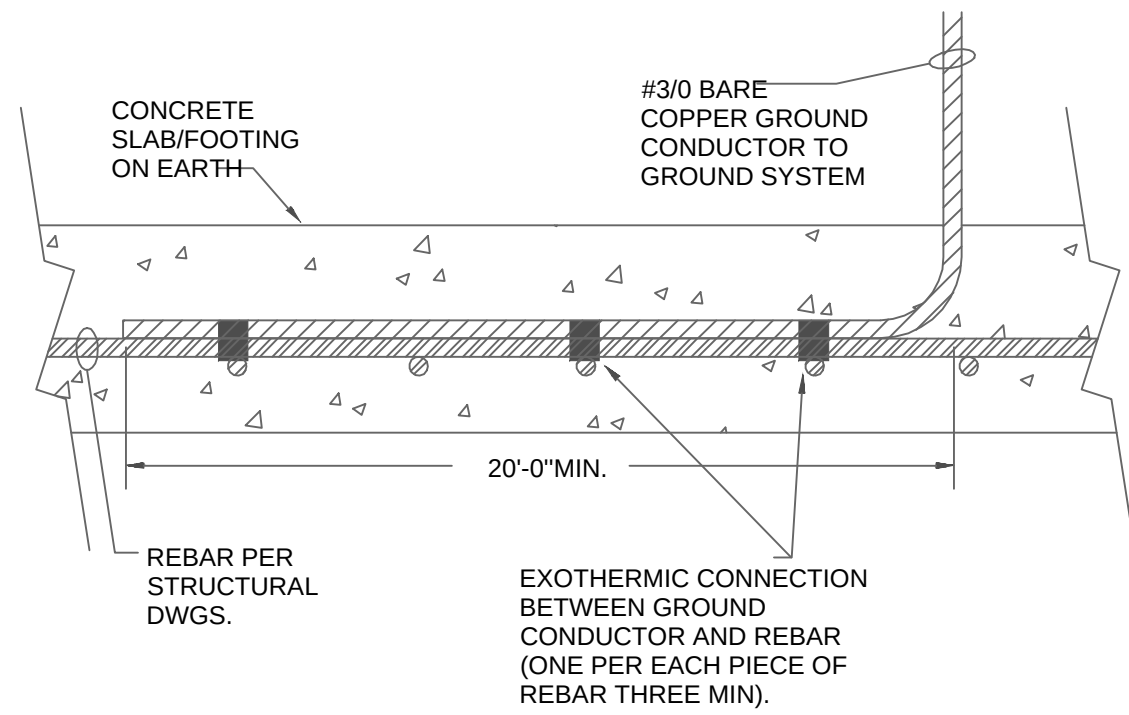
4 GROUND INSPECTION WELL
B-E501 NTS



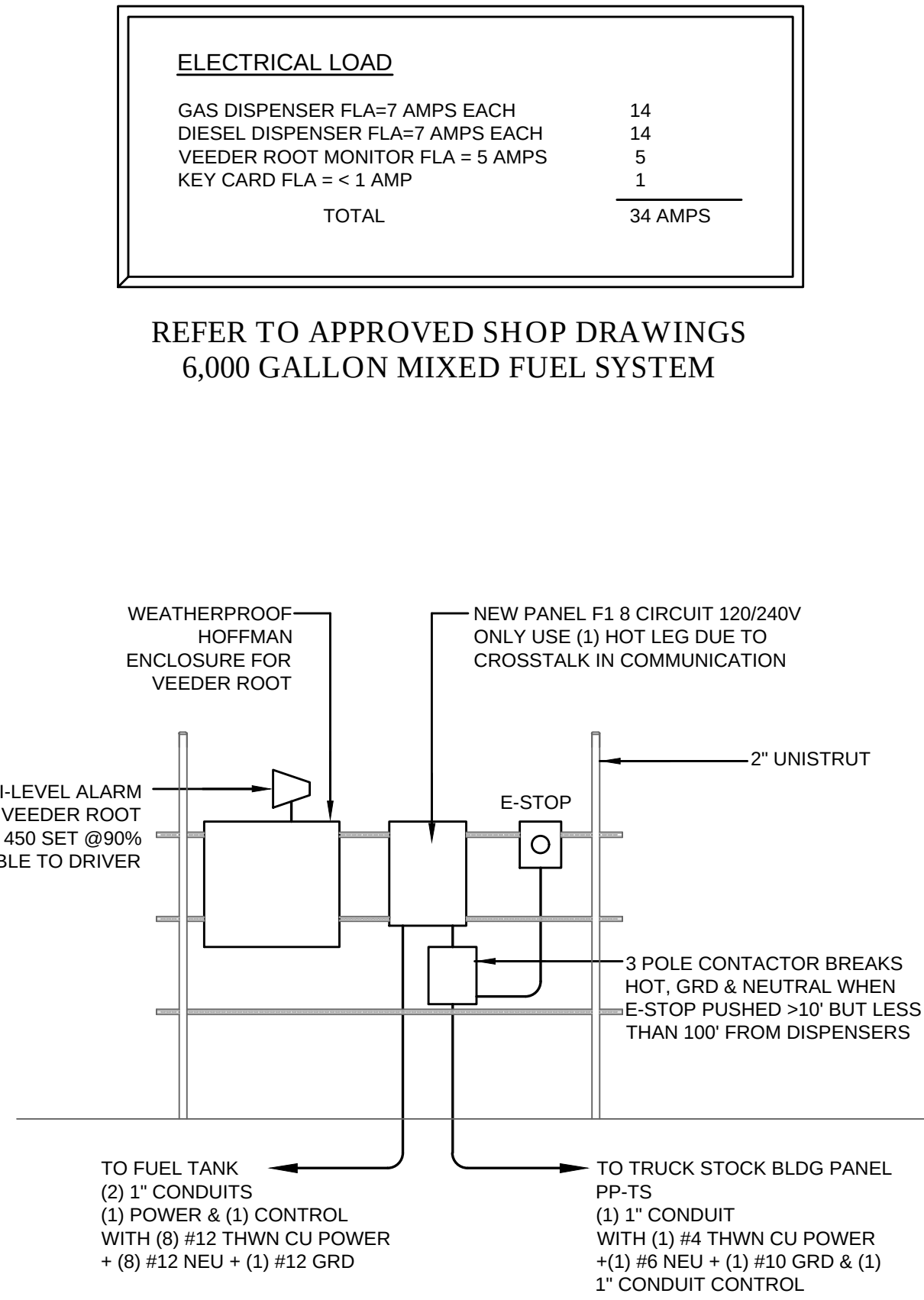
1 PANELBOARD NAMEPLATE
B-E501 NTS



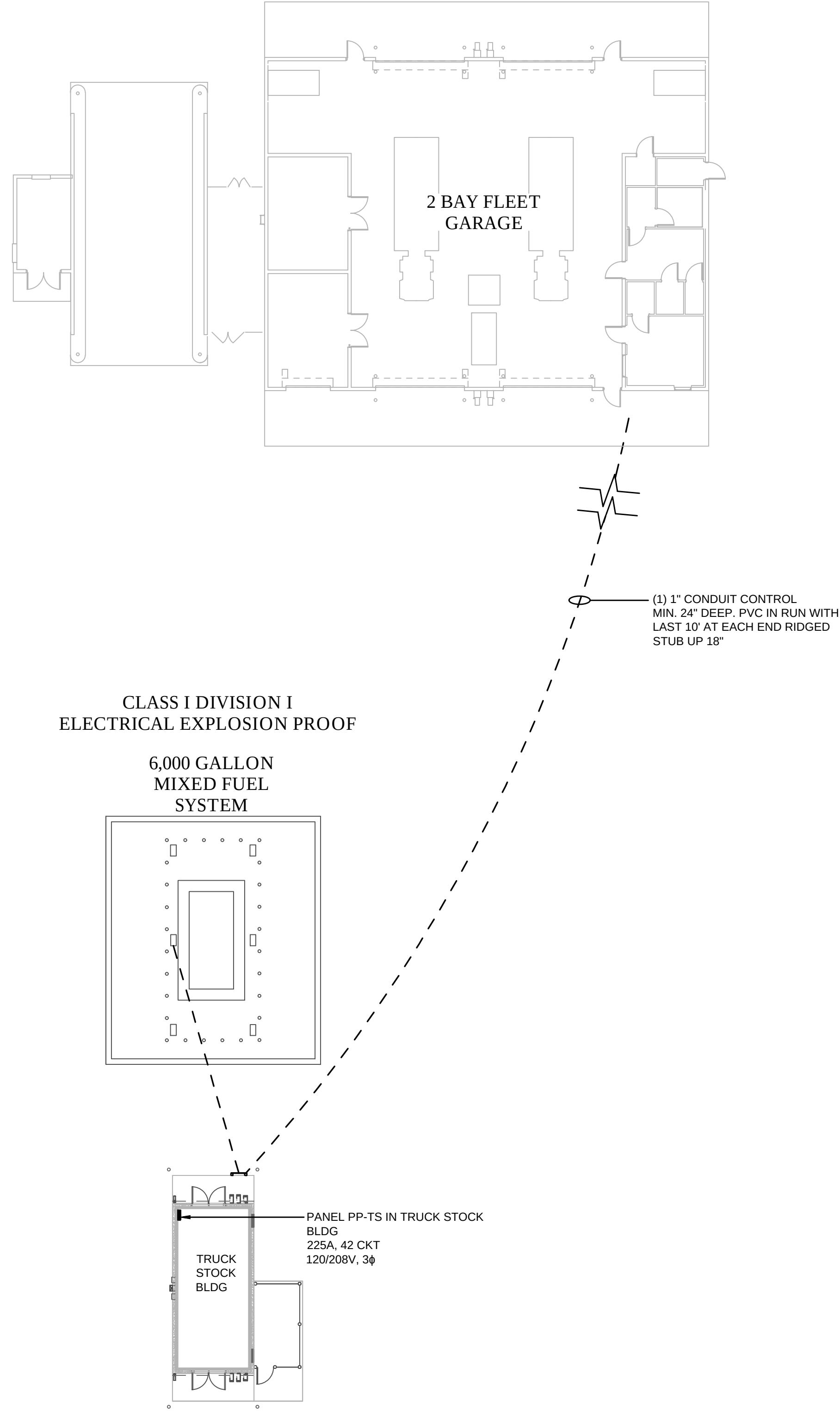
3 SPD INSTALLATION DETAIL
B-E501 NTS



5 TYPICAL "UFER" GROUND
B-E501 NTS



6 PANEL 'F1' DETAIL
B-E501 NTS



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PROJECT TEAM

PRINCIPAL IN CHARGE
DAVID LITHGOW

PROJECT MANAGER
DAVID LITHGOW

DESIGN TEAM
CEA

PROJECT NAME
COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING B - TRUCK STOCK
FLORIDA POWER & LIGHT

PROJECT NO.
814C632800

SHEET TITLE
LIGHTNING PROTECTION DETAILS

SHEET NUMBER
B-E501



PANELBOARD SCHEDULE 'PP-TS'

CONNECTED VOLTAMPS			LOAD DESCRIPTION			WIRES AWG	POLES	AMPS	W L C S	W L C S	AMPS	POLES	LOAD DESCRIPTION	WIRES AWG	CONNECTED VOLTAMPS			
AØ	BØ	CØ							A B C	A B C					AØ	BØ	CØ	
360			MACHINE ROOM RECPES			12	1	20	1	2	20	1	SPARE	12	0			
	450		LIGHTING			12	1	20	3	4	20	1	CORD REEL	12		500		
		500	CORD REEL			12	1	20	5	6	20	1	SPARE					
1500			VACUUM			12	1	20	7	8	20	1	ICE MACHINE COMPRESSOR	12	1553			
	1220		STORAGE RECPES			12	1	20	9	10	20	1	ICE MACHINE COMPRESSOR	12		1553		
		2100	COMPRESSOR			8	3	35	11	12	20	1	EF-01	12			696	
2100						12	1	20	13	14	20	1	STORAGE RECPES	12	1220			
	2100					12	1	20	15	16	20	2	ICE MACHINE COMPRESSOR	12		1553		
		4080	SUBFEED PANEL F1			6	1	50	17	18	20	1					1553	
									19	20								
									21	22								
									23	24								
									25	26								
									27	28								
									29	30								
									31	32								
									33	34								
									35	36								
									37	38	30	3	SPD	10	0			
									39	40					0			
									41	42							0	
3960	3770	6680	TOTAL CONNECTED VA			6733	7376	8929					TOTAL DEMAND VA			2773	3606	2249
SUB-TOTAL VA			TOTAL CONNECTED AMPS			56	61	74					TOTAL DEMAND AMPS					