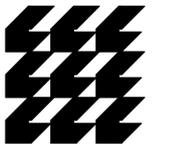


ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2010 FBC, 2008 NEC, 2009 NFPA70, 2002 NFPA72, 2010 FLORIDA FIRE PREVENTION CODE AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES AND AUTHORITIES.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.
- WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL".
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE DRAWN TO SCALE.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS, EVEN IF SUCH AREAS ARE NOT SHOWN ON THE ELECTRICAL DRAWINGS. LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION, THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.
- THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW VOLTAGE WIRING.
- PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI, U.L., ETC AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHEN REQUIRED.
- PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIATED WITHOUT COST TO THE OWNER.
- PROVIDE RECORD DRAWINGS TO THE BUILDING OWNER AND ARCHITECT WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE, PER FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505, 505.7.4.2. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, RE-ROUTINGS, ETC.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER, PER PER FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505, 505.7.4.1.
- THE CONTRACTOR SHALL COORDINATE WITH FPL ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR PROVIDING THE REQUIRED CONDUIT SIZE AND NUMBER TO THE TENANT SPACE. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL CORDS AND SHALL INSTALL FROM THE LOCAL TELEPHONE BOARD TO THE MAIN POINT OF SERVICE.
- FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE OF SYSTEM WITH SHOP DRAWINGS. THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES, EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.
- GENERATOR SYSTEM SHALL BE COMPLETE AND OPERABLE AND SHALL INCLUDE REQUIRED ACCESSORIES, FUEL TANKS, PIPING, MUFFLER, BLOCK HEATER, BATTERY CHARGER, ETC. THE CONTRACTOR SHALL COORDINATE THE LOCATION FOR A REMOTE CONTROL PANEL.
- WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE, FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.
- SPLICES IN EXTERIOR PULL BOXES OR MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULL WIRE OR EQUIVALENT AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300, OF THE NEC.
- PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR INSTALLATION METHODS.
- SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
- RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PAD, SAW CUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED BACKFILL TRENCHED TO 30% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- PULL BOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF SCREWS.
- FLUSH FLOOR RECEPTACLE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #B-3725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.
- FLUSH FLOOR TELEPHONE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #B-2725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.
- DEVICES SHALL BE AS FOLLOWS:
  - RECEPTACLES - HUBBELL #5362 SERIES
  - SWITCHES - HUBBELL #1221 SERIES
  - DIMMERS - LUTRON "NOVA" SERIES
  - THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT. IN DAMP OR WET LOCATIONS COVER PLATES SHALL BE STAINLESS STEEL. IN DRY LOCATIONS COVER PLATES SHALL BE SMOOTH HIGH ABUSE NYLON OR EQUIVALENT. PROVIDE COVER PLATES FOR SWITCHES, RECEPTACLES, TELEPHONE, TELEVISION, COMPUTER, AND J-BOX OUTLETS AS REQUIRED.
- BOXES FOR TELEPHONE, T.V., COMPUTER, WIRING DEVICES, ETC., SHALL BE MINIMUM 4" SQUARE.
- STAIR TYPE "MC" CABLE #12 AWG AND #10 AWG WITH A FULL SIZED GROUNDING CONDUCTOR MAY BE USED WHERE PERMITTED BY BOTH THE N.E.C. AND LOCAL ORDINANCE, IN THE FOLLOWING APPLICATIONS:
  - IN WALLS FOR HORIZONTAL DEVICE CONNECTION ONLY, HOMERUNS TO PANELBOARDS SHALL BE EMT OR PVC (BELOW GRADE).
- RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.
- RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.
- FIXTURES RECESSED IN "T-BAR" U.L. FIRE RATED CEILING ASSEMBLIES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM, WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH FLEXIBLE U.L. APPROVED ASSEMBLY.
- CONTRACTOR SHALL REFER TO FOOD SERVICE DRAWINGS FOR EXACT LOCATIONS AND ADDITIONAL ELECTRICAL REQUIREMENTS, PROVIDE J-BOXES, RECEPTACLES, CONNECTIONS, CONDUITS (TO INCLUDE SODA AND LIQUOR DISPENSING SYSTEMS), WIRE, INTERLOCKS, CONTROLS, ETC., AS REQUIRED BY THE FOOD SERVICE EQUIPMENT SUPPLIER.
- SEE DIVISION 15 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.
- RECEPTACLE AND TELEPHONE OUTLETS AT COUNTER SHALL BE MOUNTED WITH THEIR LONG AXIS HORIZONTAL AT +42" UNLESS NOTED.
- PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANELBOARDS DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
- PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- DISCONNECT SWITCHES SHALL BE GENERAL DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS "R" FUSES ONLY AND REJECT ALL OTHERS.
- PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
- PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.
- CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND FUSES SHALL BE BUSSMANN OR LITLUFUSE.
- ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUIVALENT PROTECTION. MET FITTINGS SHALL BE MALLEABLE IRON OR STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE.
- NON-METALLIC AND FLEXIBLE CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
- FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
- CONDUITS PENETRATING THRU ROOF SHALL HAVE FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TIE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW A MINIMUM OF ONE 3/4". SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS. FLUSH MOUNTED PANEL SHALL BE INSTALLED IN 6" WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITIES
- WHERE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., IN MOTOR CONTROL STARTERS AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSH BUTTONS OR SELECTOR SWITCH AS REQUIRED, IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED. SUBMIT ELEMENTARY CONTROL DIAGRAMS FOR APPROVAL. SUBMITTALS SHALL INCLUDE INDICATION OF PRIOR REVIEW AND ACCEPTANCE BY TEMPERATURE CONTROL CONTRACTOR. REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.
- THE LIGHTING HAS BEEN DESIGNED IN ACCORDANCE OF THE STATE OF FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505 AND 506.
- VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION 505, 505.7.3. THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH SECTION 505 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.
- ADDITIONAL NOTES FOR NEW PANELBOARDS:
  - PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS.
  - UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F.
  - ALL PANELS SHALL HAVE TYPED WRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR.
  - PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES.
  - ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, BOLT-ON E. TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED
  - CONTRACTOR SHALL PROVIDE ON ALL FLUSH (RECESSED) MOUNTED PANELS TWO (2) SPARE 2" CONDUITS STUBBED INTO THE CEILING SPACE.
  - ALL CURRENT CARRYING BUS BARS SHALL BE COPPER.



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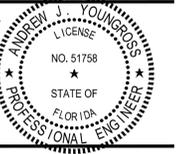
Architects, Planners  
& Interior Designers

AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: office@csa-architects.com

ISSUED FOR : DRC 11.29.2011  
AAC ..... 01.18.2012  
AAC (RESUBMITTAL) 03.21.2012  
P&Z ..... 03.21.2012  
BIDS ..... 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION



PROJECT TITLE

**CITY OF  
POMPAÑO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPAÑO BEACH, FL 33064

REVISIONS

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER  
**11127-E-0.1.DWG**

DRAWING TITLE

**ELECTRICAL  
NOTES, LEGEND  
AND SCHEDULES**

DATE **08.06.2012** DRAWN BY **DJM**

JOB NUMBER  
**110102 / 11127**

DRAWING NUMBER

**E-0.1**

08.06.2012 BID-PERMIT SET

ELECTRICAL SYMBOL LIST

S	WALL SWITCH - 1 POLE - 250V - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		TELE/DATA OUTLET, MOUNT 15" A.F.F. OR AS NOTED. PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. SINGLE GANG OUTLET BOX. SEE DETAIL ON SHEET E-6.2 NUMBERS REPRESENT THE FOLLOWING. 1ST NUMBER IS THE FLOOR. SEQUENTIAL NUMBERS REPRESENT EACH CABLE NUMBER.
S <sub>2</sub>	WALL SWITCH - 2 POLE - 250V - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		
S <sub>3</sub>	WALL SWITCH - 3 WAY - 125V - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		
S <sub>d</sub>	DIMMER SWITCH - 125V - 1000W - 20 AMP, MOUNT 46" A.F.F. OR AS NOTED		
S <sub>o</sub>	DOOR SWITCH - ON/OFF CONTROL ----> DOOR OPEN/CLOSE		
S <sub>v</sub>	MOTOR RATED DISCONNECT SWITCH FOR FANS		
S <sub>l</sub>	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 120V-800W-6.7 AMP, MOUNT 46" A.F.F. OR AS NOTED. DUAL TECHNOLOGY PIR/MICROPHONICS SENSOR SWITCH MODEL: "WSD-PDT" OR EQUAL		
⊙ <sub>452</sub>	LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-800W-6 AMP, CEILING MOUNT OR AS NOTED. DUAL TECHNOLOGY PIR/MICROPHONICS SENSOR SWITCH MODEL: "CMR-PDT" OR EQUAL. NUMERAL DENOTES AREA OF COVERAGE.		
⊖	SINGLE RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. ⊕ COUNTERTOPS OR AS NOTED		
⊖	DUPLEX RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. ⊕ COUNTERTOPS OR AS NOTED		
⊖ <sub>GFI</sub>	DUPLEX RECEPTACLE ON GROUND FAULT INTERRUPTER CIRCUIT. 125V - 20 AMP - NEMA 5-20R		
⊖ <sub>4</sub>	QUAD RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. ⊕ COUNTERTOPS OR AS NOTED		
⊖ <sub>o</sub>	DROP CORD - SEE DETAIL.		
⊖ <sub>30</sub>	SINGLE RECEPTACLE - 250V - 30 AMP - NEMA 6-30R, MOUNT 15" A.F.F. (STANDARD) OR AS NOTED		
⊖ <sub>o</sub>	JUNCTION BOX MOUNTED ABOVE CEILING.		
⊖ <sub>TV</sub>	TELEVISION OUTLET MOUNT 15" A.F.F. OR AS NOTED, PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.		
01-5,6,7,8			
	EXHAUST FAN - FRACTIONAL HORSEPOWER.		
	PANELBOARD		
	DISCONNECT SWITCH - FUSED.		
	PUSH BUTTON		
W.P.	WEATHERPROOF		
N.L.	NIGHT LIGHT		
EM.	EMERGENCY		
	2' x 4' FLUORESCENT LAY-IN TROFFER, SEE LUMINAIRE LIST.		
	2' x 2' FLUORESCENT LAY-IN TROFFER, SEE LUMINAIRE LIST.		
	1' x 4' FLUORESCENT SURFACE MOUNT WRAPAROUND, SEE LUMINAIRE LIST.		
	4' FLUORESCENT STRIP LIGHT OR U.C. LIGHT, SEE LUMINAIRE LIST.		
	2' FLUORESCENT STRIP LIGHT OR U.C. LIGHT, SEE LUMINAIRE LIST.		
	RECESSED DOWNLIGHT OR H.I.D. LIGHT, SEE LUMINAIRE LIST.		
	WALL MOUNTED LIGHTING FIXTURE, SEE LUMINAIRE LIST.		
	UNIVERSAL MOUNTED EXIT SIGN, WITH 90 MIN BATTERY BACKUP, SEE LUMINAIRE LIST.		
	ELECTRICAL CONDUIT CONCEALED IN WALLS OR IN CONCRETE		
	ELECTRICAL CONDUIT UNDERGROUND		
	ELECTRICAL CONTROL WIRING		
	EMERGENCY LIGHT, SEE LUMINAIRE LIST, WITH 90 MIN BATT BACKUP.		

**ELECTRICAL NOTES AND LEGEND  
N.T.S.**

**ELECTRICAL DRAWING LIST**

DRAWING NUMBER	DRAWING NAME
E-01	ELECTRICAL NOTES AND LEGEND
E-02	LIGHTING FIXTURE SCHEDULE
E-11	ELECTRICAL SITE PLAN
E-12	ELECTRICAL SITE PLAN - PHOTOMETRIC VALUES
E-13	ELECTRICAL FIRST FLOOR PLAN - DETAILS
E-21	ELECTRICAL FIRST FLOOR PLAN - POWER
E-22	ELECTRICAL SECOND FLOOR PLAN - POWER
E-31	ELECTRICAL FIRST FLOOR PLAN - SYSTEMS
E-32	ELECTRICAL SECOND FLOOR PLAN - SYSTEMS
E-41	ELECTRICAL FIRST FLOOR PLAN - LIGHTING
E-42	ELECTRICAL SECOND FLOOR PLAN - LIGHTING
E-51	ELECTRICAL ROOF PLAN, LIGHTNING PROTECTION
E-52	LIGHTNING PROTECTION SYSTEM DETAILS
E-61	ELECTRICAL RISER DIAGRAM AND SCHEDULES
E-62	COMMUNICATION SYSTEM DETAILS
E-63	ZETRON SYSTEM RISER DIAGRAM
E-71	ELECTRICAL DETAILS
E-72	ELECTRICAL DETAILS
E-73	ELECTRICAL DETAILS AND ENLARGED PLANS
E-74	ELECTRICAL DETAILS

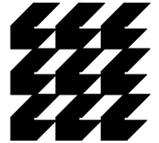
**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
"TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE."  
DANIEL E. THOMPSON  
FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

113 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
E-MAIL: tyec@tyecfla.com

TEL: 561-274-8300  
FAX: 561-274-0222  
www.tyecfla.com

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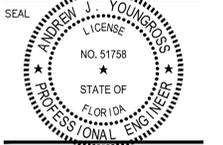
Architects, Planners  
& Interior Designers

AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: office@csa-architects.com

ISSUED FOR : DRC 11.29.2011  
AAC (RESUBMITTAL) 01.18.2012  
P&Z 03.21.2012  
BIDS 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION



PROJECT TITLE

**CITY OF  
POMPAÑO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPAÑO BEACH, FL 33064

REVISIONS

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER  
11127-E-0.2.DWG

DRAWING TITLE  
**LIGHTING  
FIXTURE  
SCHEDULE**

DATE 08.06.2012 DRAWN BY DJM  
JOB NUMBER 110102 / 11127  
DRAWING NUMBER

**E-0.2**

LIGHTING FIXTURE SCHEDULE							
TYPE	VOLTS	DESCRIPTION	LAMPS		MOUNTING	MANUFACTURER/ CATALOG NUMBER	REMARKS
			NO.	DESIGNATION			
A	120	LED HI-BAY LUMINAIRE	72	LED LAMPS TOTAL INPUT WATTS 169	PENDANT MOUNT APPARATUS BAY	HUBBELL LIGHTING HBL SERIES # HBL 72L U 5K N 070 WH	.
B	120	6" APERTURE RECESSED FLUORESCENT DOWNLIGHT WITH SEMI SPECULAR ALUM REFL WITH VERTICAL MOUNT LAMP	1	PLT-13W/41/4P	RECESSED FOR GENERAL AREA & EXTERIOR WALKWAY	MAXILUME LIGHTING HV6PL-1X13-E-M-6101-CL-WH	DAMP RATED WET RATING REQUIRES LENS
C	120	6" APERTURE RECESSED FLUORESCENT DOWNLIGHT WITH WHITE REFLECTOR AND HORIZONTAL LAMP	1	PLC-18W/41/4P	RECESSED GENERAL AREA & RESTROOMS	MAXILUME LIGHTING HH6PL-1X18-E-M-6501-WT-WH	.
CR	120	6" APERTURE RECESSED FLUORESCENT DOWNLIGHT WITH WHITE REFL AND RED LENS OR RED INSERT & HORIZONTAL LAMP	1	PLC-18W/41/4P	RECESSED FOR GENERAL AREA	MAXILUME LIGHTING HH6PL-1X18-E-M-6503-RED CL-WH	RED LENS COORDINATE WITH TONE ALARM OF THE STATION
D	120	6" APERTURE RECESSED FLUORESCENT DOWNLIGHT WITH WHITE REFLECTOR AND PRISMATIC LENS	1	PLC-18W/41/4P	RECESSED SHOWER	MAXILUME LIGHTING HH6PL-1X18-E-M-6516-W	WET RATED FOR SHOWER AREAS
F	120	24" X 24" LENSED RECESSED FLUORESCENT TROFFER & 12-125 ACRYLIC PRISMATIC LENS	2	F31U6T8/841	RECESSED GENERAL AREA	COLUMBIA LIGHTING ST8-22-231U6-FAA12125-EU	GRID, FLANGE OR SUFC CLG WHICH EVER APPLIES
G	120	8" X 4" LOW PROFILE FLUORESCENT WRAP AROUND LIGHTING FIXTURE - CLEAR PRISMATIC ACRYLIC LENS	2	F32T8/841	SURFACE MOUNT FOR STORAGE AREAS AND LOCKER ROOM	COLUMBIA LIGHTING AWN4-232-EU	.
H	120	TASK LUMINAIRE SINGLE ARM ANODIZED ALUMINUM WITH LENSE (READING LIGHT) AND FACTORY INSTALLED ON/OFF SWITCH	1	PLC-11W/41	WALL MOUNT FOR DORM ROOMS	WALDMAN LIGHTING DIVA 920 (NEW # 112-311-008) W/ LAMP 225-386-019	MOUNTING HEIGHT PER ARCH PLANS
K	120	THERMOPLASTIC FLUORESCENT LUMINAIRE WITH VAPORPROOF POLYCARBONATE PRISMATIC LENS AND CAST WIRE GUARD AND GALVANIZED FINISH	1	CF-18W	WALL MOUNT ELEVATOR PIT	BASELITE LIGHTING A2-PR-CG-49-CF18-120V-W.B4-49	.
M	120	RECESSED FLUORESCENT STEP LIGHT WITH DIECAST ALUMINUM FACEPLATE	1	PLC-9W/41/2P	RECESSED DORM CORRIDOR	PRESCOLITE LIGHTING ALCF9120V-HPF-LFG-WH	SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT FINISH---WHITE
N	120	SURFACE FLUORESCENT WRAPAROUND ACRYLIC LENS LUMINAIRE	2	F32T8/841	SURFACE MOUNT GENERATOR ENCLOSURE	COLUMBIA LIGHTING WC4-232-E120-B50	BODINE 90 MINUTE EMERGENCY BALLAST AT 1400 LUMENS
P	120	4' LINEAR FLUORESCENT LUMINAIRE 18 GAUGE CRS FOR ROUGH SVC INDOOR ENVIRONMENT AND ADA COMPLIANT	2	F32T8/841	SURFACE STAIRWELL MTG	KENALL LIGHTING RHL7-48-MW-PP-2-32-IS-1-DV-PEL	PEL AT END OF CATALOG # REPRESENTS AN EMERGENCY BALLAST--1100 LUMENS IF AND WHERE REQUIRED
PA	120	2' LINEAR FLUORESCENT LUMINAIRE 18 GAUGE CRS FOR ROUGH SVCE INDOOR ENVIRONMENT AND ADA COMPLIANT	2	F17T8/841	SURFACE MOUNT RESTROOM VANITY PANTRY	KENALL LIGHTING RLH7-24-MW-PP-2-17-IS-1-DV	.
Q	120	CEILING MOUNT DECORATIVE PENDANT DIRECT/INDIRECT PERFORATED BOWL TEXTURED MATTE WHITE FINISH	4	PLT-26W/841/4P	LOBBY	LITECONTROL LIGHTING P-ID-33JR40T26/21-2D-TCWM-PFB-ELB20 LITECONTROL "SCION JR" SERIES	.
SA	208	ARCHITECTURAL FLOOD LIGHT WITH HORIZONTAL LIGHT DISTRIBUTION	1	250WPMH	SIGN LIGHTS AND FLAGPOLE	KIM LIGHTING AFL21/250PSMH208DB/SM2/BL	WITH STANCHION MOUNT TENON
W1	120	ARCHITECTURAL RADIUS WALL EXTERIOR WALLPACK FULL CUTOFF, DARK SKY, NEIGHBOR FRIENDLY		47.5W LED, 5K COLOR	WALL MOUNT	HUBBELL LIGHTING RDI-50L8-5K-FT-WH	.
W2	120	WALL MOUNT 6" DIA CYLINDER		350 MILIAMP LED	WALL MOUNT	PRESCOLITE LIGHTING LD6LED4DWS5K-8SS-WH	.
A2-2	208	EXTERIOR SITE LIGHT POLE MOUNT		350 MILIAMP LED	TWIN POLE MOUNT	KIM LIGHTING 2SB-ALT4P35-60L5K208-WH	.
B3	208	EXTERIOR SITE LIGHT POLE MOUNT		700 MILIAMP LED	SINGLE POLE MOUNT	KIM LIGHTING 1SA-ALT3P70-60L5K208-WH	.
BL	208	EXTERIOR SITE LIGHT POLE MOUNT		700 MILIAMP LED	SINGLE POLE MOUNT	KIM LIGHTING 1SA-ALTRP70-60L5K208-WH	.
BR	208	EXTERIOR SITE LIGHT POLE MOUNT		700 MILIAMP LED	SINGLE POLE MOUNT	KIM LIGHTING 1SA-ALTRP70-60L5K208-WH	.
	120	EMERGENCY LIGHTING UNIT		INCLUDED	WALL	COMPASS LIGHTING CSEU1	90 MIN BATTERY INTEGRAL TEST SWITCH
	120	COMBINATION THERMOPLASTIC L.E.D. EXIT SIGN & EMERGENCY LIGHT WITH GREEN LETTERS		INCLUDED	UNIVERSAL	COMPASS LIGHTING SMXWG3	GREEN LETTERS 90 MIN BATTERY INTEGRAL TEST SWITCH U.L. DAMP LOCATION
	120	THERMOPLASTIC L.E.D. EXIT SIGN WITH GREEN LETTERS		INCLUDED	UNIVERSAL	COMPASS LIGHTING CSXWGEB3	GREEN LETTERS 90 MIN BATTERY INTEGRAL TEST SWITCH

LUMINAIRE LIST NOTES

1. PROVIDE ELECTRONIC BALLAST FOR ALL FLUORESCENT LAMPED FIXTURES.
2. MINIMUM FLUORESCENT LAMP COLOR TEMPERATURE SHALL BE 3500K.
3. SEE LIGHTING PLAN FOR EXIT SIGN CHEVRON REQUIREMENTS.
4. NOTE: ARCHITECT MAY CONSIDER LUMINAIRE SUBSTITUTIONS IF REQUEST IS SUBMITTED WITH FULL COLOR GRAPHICS AND CUTSHEETS NO LESS THAN 10 DAYS PRIOR TO BID OPENING. FAILURE TO DO SO WILL CLOSE ALL FUTURE OPPORTUNITIES.

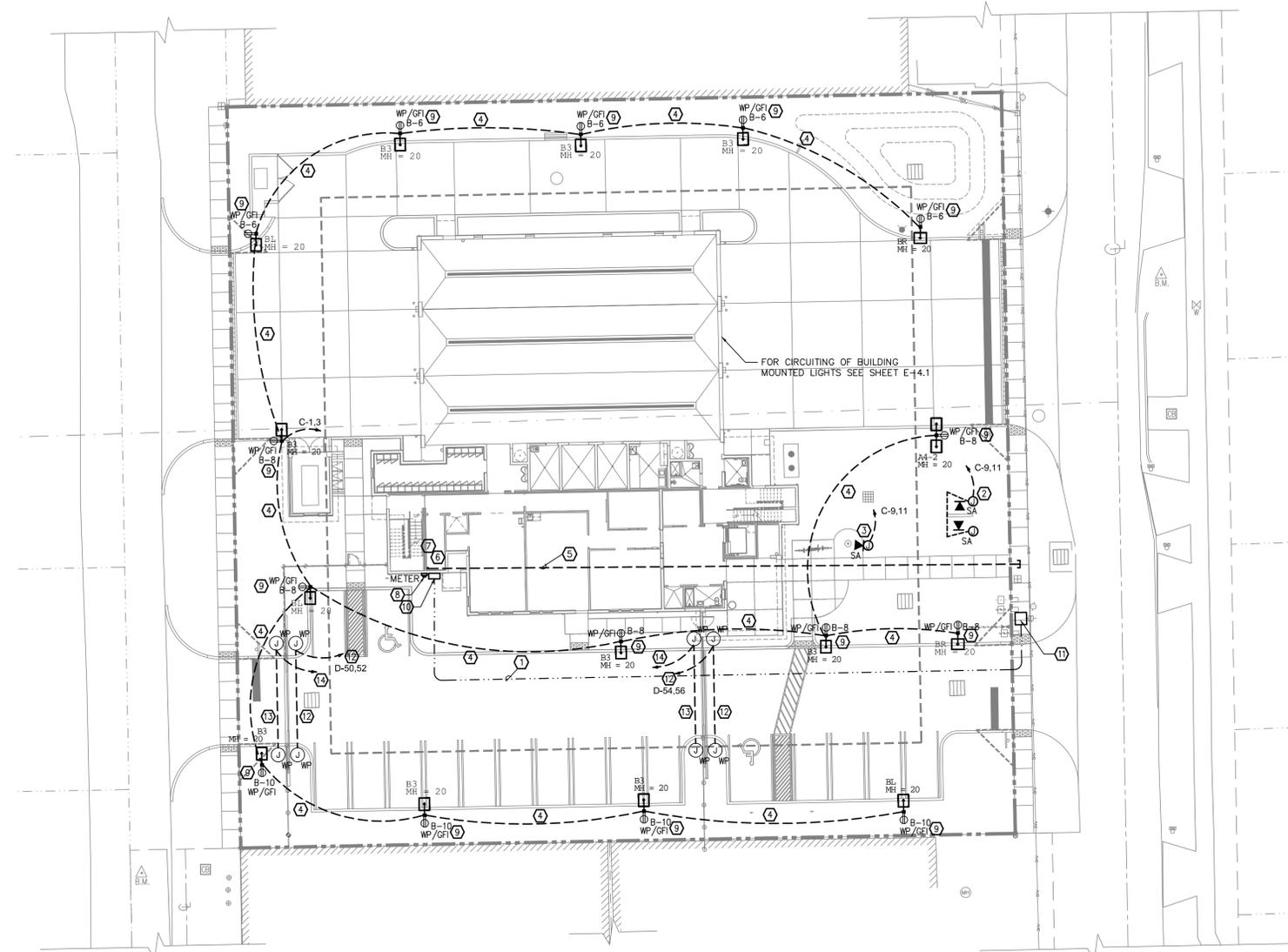
**LIGHTING FIXTURE SCHEDULE**  
N.T.S.

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
"TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE."  
DANIEL E. THOMPSON  
FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

112 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
TEL: 561-274-0200  
FAX: 561-274-0222  
E-MAIL: tyec@tyec.com

08.06.2012 BID-PERMIT SET

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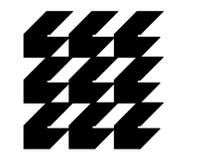


**ELECTRICAL SITE PLAN**

SCALE: 1" = 20'



PLAN KEY NOTES	
①	PROPOSED ROUTING FOR SERVICE ENTRANCE CONDUCTORS. PROVIDE (2) SETS OF (4)-600MCM THHN CU CONDUCTORS IN 4" PVC CONDUIT FROM FPL TAP BOX TO 800 AMP "ATS" (NORMAL POWER) IN 1st FLOOR ELECTRICAL ROOM THROUGH CT CAN. COORDINATE WITH POWER UTILITY COMPANY.
②	LOCATION OF MONUMENT SIGN LUMINAIRE. SEE MOUNTING DETAIL ON SHEET E-7.1.
③	LOCATION OF FLAG LUMINAIRE. SEE MOUNTING DETAIL ON SHEET E-7.1.
④	PROVIDE 2#8 AND 1#8GND., IN 1" PVC CONDUIT. ROUTE CONDUIT TO LIGHTING CONTACTOR. SITE LUMINAIRES ARE CONTROLLED VIA A PHOTOCELL. PROVIDE 2#8 & 1#8GND. IN 1" PVC CONDUIT FROM POLE-TO-POLE.
⑤	PROVIDE (2) 4" & (2) 2" EMPTY PVC CONDUITS FROM UTILITY EASEMENT FOR TELEPHONE AND TERMINATE AT COMM. ROOM. PROVIDE CONDUIT END-BUSHINGS WITH PULL STRING AND 60" RADIUS MINIMUM CONDUIT SWEEPS, NO SMALLER THAN 12 TIMES O.D. OF CONDUIT, IF POSSIBLE. COORDINATE WITH TELEPHONE UTILITY COMPANY.
⑥	APPROXIMATE LOCATION OF FPL SERVICE ENTRANCE, INTO BUILDING. SEE RISER DIAGRAM. COORDINATE WITH STRUCTURAL DRAWINGS
⑦	APPROXIMATE LOCATION OF BELLSOUTH SERVICE ENTRANCE, INTO BUILDING. SEE RISER DIAGRAM. COORDINATE WITH STRUCTURAL DRAWINGS
⑧	POWER COMPANY NEMA 3R METER LOCATED NEXT TO CT CAN.
⑨	WEATHERPROOF GFI DUPLEX GFI RECEPTACLE MOUNTED ON POLE AT 3'-0" ABOVE FINISHED GRADE.
⑩	PROVIDE 800A CT CAN ON WALL. COORDINATE SERVICE CONDUCTOR ROUTING TO FPL CABLE TAP BOX AT THE BASE OF THE FPL SERVICE POLE.
⑪	PROVIDE FPL SERVICE CABLE TAP BOX AT THE BASE OF THE SERVICE POLE. COORDINATE WITH FPL FOR NEW TRANSFORMERS ON THIS POLE.
⑫	1" CONDUIT, 3 #8 & #10EG, FOR GATE CIRCUITS.
⑬	1" CONDUIT, EMPTY, FOR GATE CONTROL WIRING.
⑭	1" CONDUIT, EMPTY, FOR GATE CONTROL WIRING, RUN TO COMMUNICATION ROOM - 218.



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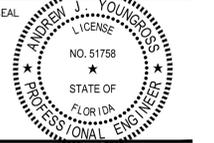
Architects, Planners  
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AQ26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
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FAX: 561 243-8184  
E-mail: office@csa-architects.com

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CONSTRUCTION



PROJECT TITLE  
**CITY OF  
POMPANO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

REVISIONS

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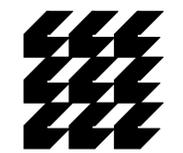
FILE NUMBER	11127-E-1.1.DWG
DRAWING TITLE	<b>ELECTRICAL SITE PLAN</b>
DATE	08.06.2012
DRAWN BY	DJM
JOB NUMBER	110102 / 11127
DRAWING NUMBER	

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.  
**DANIEL E. THOMPSON**  
FLA. REG. NO. 33289  
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CERTIFICATE OF AUTHORIZATION NO. 25996  
112 S.E. 10th STREET TEL: 561-274-0200  
DELRAY BEACH, FL 33483 FAX: 561-274-0222  
E-MAIL: tyec@tyeco.com www.tyeco.com

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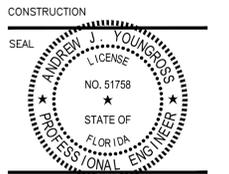
**CURRIE  
SOWARDS  
AGUILA  
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AG26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
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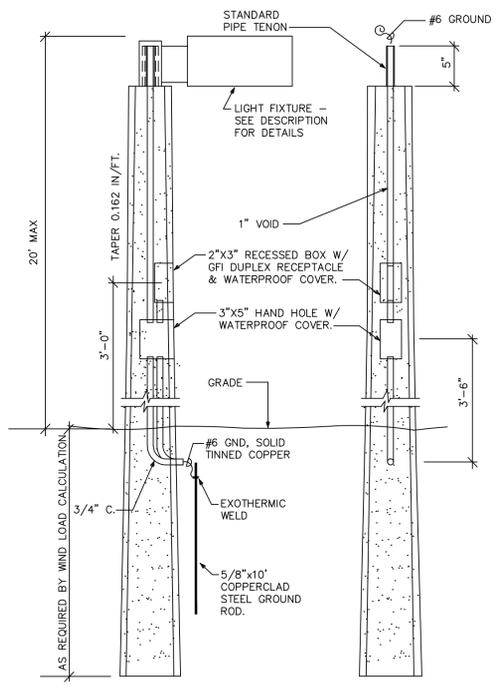
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PROJECT TITLE  
**CITY OF  
POMPANO BEACH  
FIRE STATION 103**

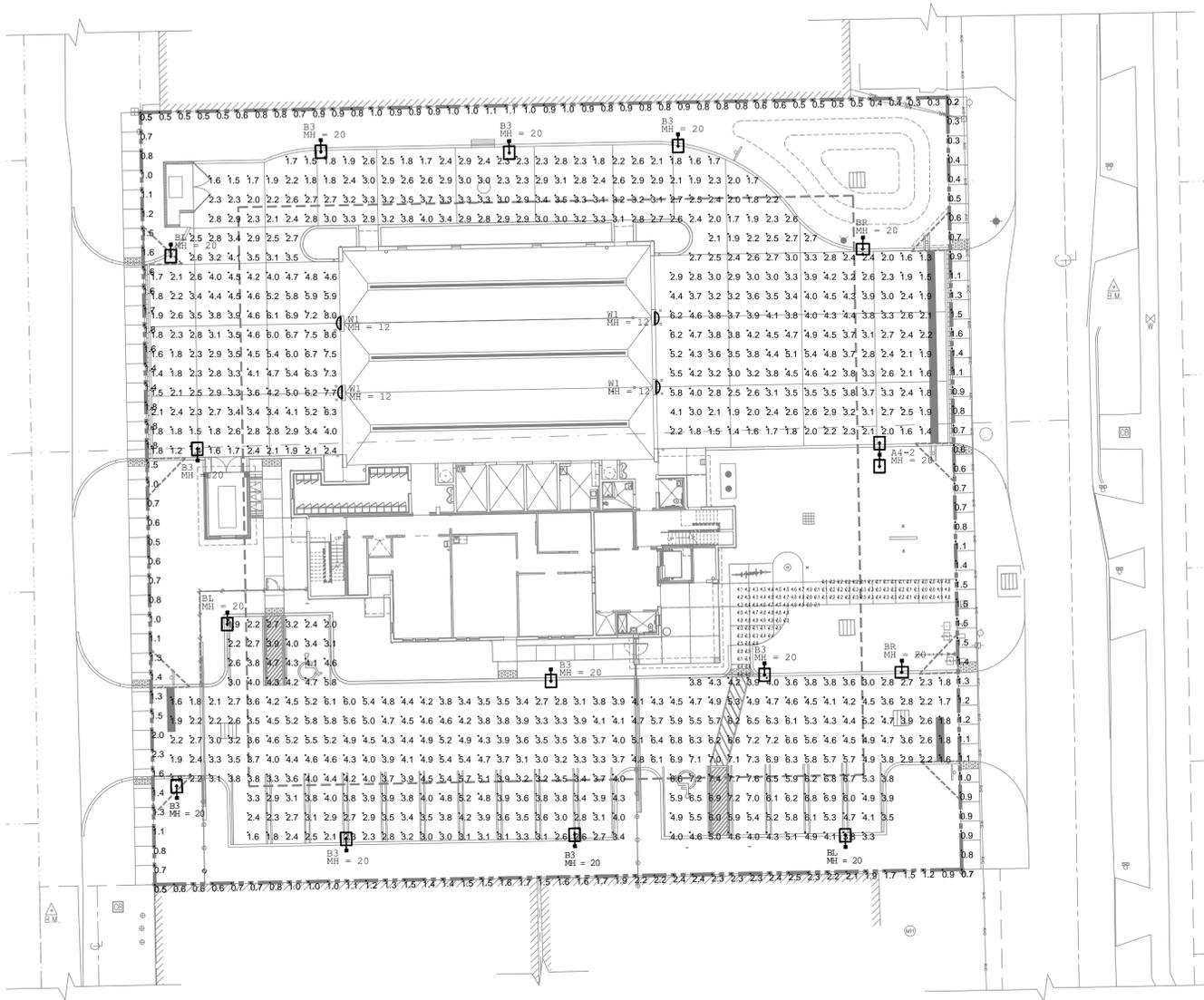
3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

REVISIONS



**NOTE:**  
POLE SUPPLIER SHALL CERTIFY THAT POLE AND FIXTURE MEET THE FOLLOWING FBC WIND LOAD CRITERIA:  
Vult = 215 MPH (3 SECOND GUST)  
Vasd = 170 MPH (3 SECOND GUST)  
POLE SUPPLIER SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A FLORIDA STATE REGISTERED ENGINEER.

**TYPE 1 CONCRETE DIRECT BURIAL  
POLE DETAIL**  
NOT TO SCALE



**ELECTRICAL SITE PLAN - PHOTOMETRIC VALUES**

SCALE: 1" = 20'

**ALTITUDE™**  
ALT60, ALT96, ALT120 Small LED Luminaire

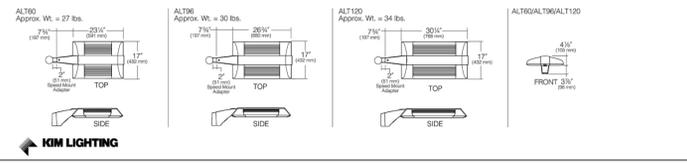
**FEATURES**

- The ultimate in LED luminaire design featuring innovative engineering, thermal management and unique patent pending PicoPrism™ optics
- Proportional and scalable aesthetic housing, available in six sizes to cover more environments than ever before
- WiHUBB features on/off/variable and step dimming control, SNAP protocol mesh network, AES-128 encryption detection, occupancy sensor interface and intuitive, user-friendly software

**ORDERING INFORMATION (Example)**

TYPE 'A4-2'	2SB	ALT4P35	60L5K208	WH			
TYPE 'B3'	ISA	ALT3P70	60L5K208	WH			
TYPE 'BL'	ISA	ALTLP70	60L5K208	WH			
TYPE 'BR'	ISA	ALTRP70	60L5K208	WH			

MOUNTING		ELECTRICAL MODULE		FIXTURE OPTIONS		POLE	
ISA 1 Arm Side Mt.	0.58   0.64   0.72	60L 60 LEDs	580nm Amber	120 120V	See p. 768-770 for pole ordering no. and EPA.	120 Volt Single Fuse	
ZSL 2 Arm Side Mt.	1.17   1.28   1.44	96L 96 LEDs	4K 4000K	208 208V		208 Volt Double Fuse	
ZSL 2 Arm Side Mt.	0.91   0.97   1.05	120L 120 LEDs	5K 5000K	240 240V		240 Volt Double Fuse	
3ST 3 Arm Side Mt.	1.50   1.61   1.77	580nm = Amber, turtle friendly		277 277V		277 Volt Single Fuse	
3SY 3 Arm Side Mt.	1.50   1.61   1.77	4K = 4000 Kelvin LED		347 347V		347 Volt Single Fuse	
ASC 4 Arm Side Mt.	1.26   1.78   1.93	5K = 5000 Kelvin LED		480 480V		480 Volt Double Fuse	
1W Single Wall Mt.	1/2"   1/2"   1/2"					A26 PhotoCell Receptacle	
*Available on round poles only						FEL Flat Glass Lens	
NOTE: EPA is for Fixture only						FPE Flat Polycarbonate Lens	
FIXTURE		FIXTURE FINISH		SLIPFITTER MOUNTING OPTIONS			
350 Millamp	700 Millamp	SG Stealth Gray		HORIZONTAL		4" Round, Standard Fixtures	
ALT1P35 Type I	ALT1P70 Type I	BL Black		HORIZONTAL Slipfitter Mount		VERTICAL	
ALT2P35 Type II	ALT2P70 Type II	DB Dark Bronze				4" Round, Standard Fixtures	
ALT3P35 Type III	ALT3P70 Type III	LG Light Gray		VSF-15A 1 fixture side mt.		4" Round, Standard Fixtures	
ALT4P35 Type IV	ALT4P70 Type IV	PS Platinum Silver		VSF-25B 2 fixtures side mt. 180°		4" Round, Standard Fixtures	
ALT5P35 Type V	ALT5P70 Type V	WH White		VSF-35T 3 fixtures side mt. 90°		4" Round, Standard Fixtures	
ALTRP35 Type R, Right	ALTRP70 Type R, Right	CC Custom Color*		VSF-25L 2 fixtures side mt. 180°		4" Round, Standard Fixtures	
ALTLP35 Type L, Left	ALTLP70 Type L, Left	*Consult representative		VSF-35T 3 fixtures side mt. 90°		4" Round, Standard Fixtures	
				VSF-4SC 4 fixtures side mt. 90°		4" Round, Standard Fixtures	
				VSF-15A 1 fixture side mt.		4" Round, Standard Fixtures	
				VSF-25B 2 fixtures side mt. 180°		4" Round, Standard Fixtures	
				VSF-35T 3 fixtures side mt. 90°		4" Round, Standard Fixtures	
				VSF-4SC 4 fixtures side mt. 90°		4" Round, Standard Fixtures	



Symbol	Qty	Label	Description	Arrangement	No. Lamps	Lumens/Lamp	LLF	Lum. Watts
[Symbol]	1	A4-2	KIM ALT4P35-60L5K	BACK-BACK	1	N.A.	0.855	62.5
[Symbol]	9	B3	KIM ALT3P70-60L5K	SINGLE	1	N.A.	0.770	128.7
[Symbol]	3	BL	KIM ALTLP70-60L5K	SINGLE	1	N.A.	0.770	127.2
[Symbol]	2	BR	KIM ALTRP70-60L5K	SINGLE	1	N.A.	0.770	127.2
[Symbol]	4	WL	HUBBELL R0150L8 5K	SINGLE	1	N.A.	0.855	47.46

LPD AREA SUMMARY			
Label	Area	Total Watts	LPD
Site Power Density	42054	2109.14	0.050

CALCULATION SUMMARY						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
East Property Line	Illuminance	Fc	0.95	1.6	0.2	4.75
North Property Line	Illuminance	Fc	0.72	1.1	0.2	3.60
Site	Illuminance	Fc	3.64	8.6	1.2	3.03
South Property Line	Illuminance	Fc	1.52	2.5	0.5	3.04
Walkway	Illuminance	Fc	2.04	3.8	1.1	1.85
West Property Line	Illuminance	Fc	1.23	2.3	0.5	2.46

**ELECTRICAL SITE PLAN - PHOTOMETRIC VALUES**  
N.T.S.

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FILE NUMBER  
11127-E-1.2.DWG

DRAWING TITLE  
**ELECTRICAL  
SITE PLAN  
PHOTOMETRIC  
VALUES**

DATE  
08.06.2012

DRAWN BY  
DJM

JOB NUMBER  
110102 / 11127

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112 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
TEL: 561-274-0200  
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**6" Direct LED Wall Mount Cylinder LD6LED4D**  
Wet Location  
120V, 277V  
High Output

DATE \_\_\_\_\_ TYPE **W2**

FIRM NAME \_\_\_\_\_

PROJECT \_\_\_\_\_

**LifeForms**  
For conversion to millimeters, multiply inches by 25.4  
Not to Scale

**APPLICATIONS:**  
LifeForms™ LD6LED4D Series is a 6" direct wall mount LED cylinder designed to combine superior brightness control with energy savings and long lamp life. Suitable for a variety of commercial, retail, and institutional applications to achieve illumination patterns on vertical walls or columns. Optical lens options in spot, medium, or wide distribution are ideal for higher ceiling applications such as transportation terminals or atrium areas. Suitable for use in ambient temperatures up to 30°C (86°F) during operation.

**HOUSING:**  
Seamless .038" thick extruded aluminum cylinder body with die cast aluminum canopy, arm, and mounting bracket. Durable powder coat paint finish in a variety of architectural colors including Prescolite's exclusive Zet, metallic silver.

**REFLECTOR:**  
High purity spun aluminum self-forged reflector with indescence suppressed Alzak anodized finish retained by factory installed spring clips and safety cable for ease of maintenance. Provided with integral clear tempered glass lens to protect LEDs.

**LED LIGHT ENGINE:**  
High output LED light engine equipped with 110 high brightness white LEDs (2700K, 3500K, 4000K, or 5000K) on a metal clad circuit board. Secured to an integral die cast

aluminum heat sink for excellent thermal management. System designed for optimal life and lumen maintenance (50,000 hours at 70% average lumen maintenance). \*LED life calculations are based upon maintaining application LED junction temperatures and drive currents at or below manufacturer's requirements per IESNA-LM-80-08 test data.

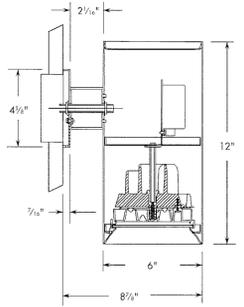
Optics: Vacuum metallized injection molded optical reflector features 110 parabolic LED modules with Prescolite's patented (U.S. Patent No. 6,254,254) American Matte™ finish to produce uniform illumination. Optional optical lenses provide a choice of spot, medium, or wide distribution for added versatility.

**LED DRIVER:**  
Energy efficient solid state constant current electronic driver with 50,000 hour minimum anticipated life. Meets UL Class 2, inherent short-circuit protection, self limited, overload protected.

**INSTALLATION:**  
Easy installation onto standard J-Box.

**CERTIFICATIONS:**  
CSA certified to US and Canadian safety standards. Suitable for wet locations.

**WARRANTY:**  
3 year warranty  
5 year warranty available\*  
\*See NOTES on page 3)



CATALOG NUMBER: **LD6LED4D-W-35K-8-SS-WH** EXAMPLE: LD6LED4D-W-35K8L35 277V Z

CYLINDER	LED COLOR	LED COLOR TEMP	CRI	BEAM ANGLE	VOLTAGE	REF. COLOR	CYLINDER FINISH
<input type="checkbox"/> <b>LD6LED4D</b>	<input type="checkbox"/> <b>W</b>	<input type="checkbox"/> <b>27K</b>	<input type="checkbox"/> <b>7</b>	<input type="checkbox"/> <b>Blank</b>	<input type="checkbox"/> <b>Blank</b>	<input type="checkbox"/> <b>Blank</b>	<input type="checkbox"/> <b>WH</b>
6" Direct wall mount high output LED cylinder	White	2700 Kelvin	Nominal 70+ CRI	Vacuum metallized reflector with 45° cutoff	120V only <input type="checkbox"/> <b>277V</b> 120/277V	Clear Alzak <input type="checkbox"/> <b>CG</b> Champagne Gold Alzak <input type="checkbox"/> <b>BL</b> Black Alzak <input type="checkbox"/> <b>WE</b> Wheat Alzak <input type="checkbox"/> <b>LW</b> Light Wheat Alzak <input type="checkbox"/> <b>PW</b> Powder Alzak <input type="checkbox"/> <b>WH</b> White Paint	White <input type="checkbox"/> <b>BL</b> Black <input type="checkbox"/> <b>Z</b> Zet <input type="checkbox"/> <b>BA</b> Brushed Aluminum <input type="checkbox"/> <b>BZ</b> Bronze
	<input type="checkbox"/> <b>35K</b>	3500 Kelvin	Nominal 80+ CRI	<input type="checkbox"/> <b>F133</b>	REF. FINISH	<input type="checkbox"/> <b>BL</b> Black Alzak <input type="checkbox"/> <b>WE</b> Wheat Alzak <input type="checkbox"/> <b>LW</b> Light Wheat Alzak <input type="checkbox"/> <b>PW</b> Powder Alzak <input type="checkbox"/> <b>WH</b> White Paint	
	<input type="checkbox"/> <b>40K</b>	4000 Kelvin		lensed optic with 35° wide distribution and Zet painted faceplate			
	<input type="checkbox"/> <b>50K</b>	5000 Kelvin		<input type="checkbox"/> <b>MD25</b>			
				lensed optic with 25° medium distribution and Zet painted faceplate			
				<input type="checkbox"/> <b>SP18</b>			
				lensed optic with 18° spot distribution and Zet painted faceplate			

**prescolite**  
A Division of Hubbell Lighting, Inc.

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.  
Web: [www.prescolite.com](http://www.prescolite.com) • Tech Support: (888) 777-4832 **LFO-LED-010**

**RDI RADIUS**  
ARCHITECTURAL WALLPACK

Cat.# **RDI-50L8-5K-FT-WH**

Job \_\_\_\_\_ Type **W1**

Approvals \_\_\_\_\_

**HUBBELL**  
Outdoor Lighting

**APPLICATIONS**

- Architectural wallpack stylish Radius shape with molded lines to accentuate building architecture. Provides excellent illumination in three distributions as well as safety with Egress option

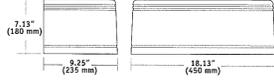
**SPECIFICATIONS**

- Full cut-off, dark sky, neighbor friendly
- Die cast aluminum housing and door
- Tempered, impact-resistant, clear glass lens
- Energy-saving LED, Pulse Start Metal Halide and Electronic Fluorescent systems
- Three distributions: (see below for restrictions) FT - forward throw for area lighting, WT - wide lateral throw for maximum spacing and UD - Up/Down accent distribution
- Five powder coat standard finishes
- Egress options for 120V or 12V remote power (by others)
- LED color temperature 5000K
- LED produces 2218 lumens
- CFL lamps color temperature 3500K
- HID lamps are medium base

**LISTINGS**

- UL 1598 listed for use in wet locations





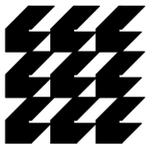
**ORDERING INFORMATION**

ORDERING EXAMPLE: RDI-150P8-FT-BZ-EM

Series	Wattage/Source/Voltage	Distribution	Finish	Options
<b>RDI</b>	<b>Radius Sconce</b>	<b>LED</b>	<b>FT</b> Forward Throw <sup>2</sup>	<b>BZ</b> Bronze
	<b>50L8-5K<sup>1</sup></b> 47.5w LED 120-277V	<b>WT</b> Wide Throw <sup>2</sup>	<b>BL</b> Black	<b>OST<sup>1</sup></b> Time delay quartz standby system energizes quartz socket when main lamp does not strike (HID only)
	<b>Pulse Start</b>	<b>UD</b> Up/Down	<b>GR</b> Gray	<b>EM</b> Double contact bayonet socket only for use with 120V remote power (generator by others)
	<b>150P8</b> 150w PS Quad		<b>WH</b> White	<b>EM12</b> Two-pin 12V socket for MR11/MR16 lamps (backup power by others)
	<b>100P8</b> 100w PS Quad		<b>PL</b> Platinum	<b>PC(X)</b> Backup power by others
	<b>70P8</b> 70w PS Quad			<b>BOC(X)<sup>3</sup></b> 0°C battery backup for one CFL lamp provides 90 minutes backup power specify 1-120V, 2-208V, 3-240V, 4-277V
	<b>50P8</b> 50w PS 120/277V			
	<b>CFL</b>			
	<b>28F8</b> 42 CFL Quad			
	<b>32F8</b> 32 CFL Quad			
	<b>42F8</b> 42 CFL Quad			
	<b>82F8</b> 2x26 CFL Quad			
	<b>84F8</b> 2x32 CFL Quad			
	<b>84F8</b> 2x42 CFL Quad			

1. Lamp(s) included. All units are Quad-Tap<sup>®</sup> (120/208/240/277V)  
2. IBA approved  
3. Available to WT distribution only  
4. BOC option not available with UD, up/down distribution  
5. 10w D.C. bayonet lamp included  
6. FT is only option  
Color Temperature: CFL lamp: 3500K, LED 5000K

**HUBBELL OUTDOOR LIGHTING** [WWW.HUBBELLOUTDOOR.COM](http://WWW.HUBBELLOUTDOOR.COM) 5/11



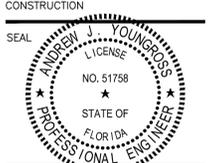
**CURRIE SOWARDS AGUILA ARCHITECTS**

Architects, Planners & Interior Designers

AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: [office@csa-architects.com](mailto:office@csa-architects.com)

ISSUED FOR : **DRC 11.29.2011**  
AAC (RESUBMITTAL) **01.18.2012**  
P&Z **03.21.2012**  
BIDS **08.06.2012**

PERMIT **08.06.2012**



PROJECT TITLE  
**CITY OF POMPANO BEACH FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

REVISIONS

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER  
**11127-E-1.3.DWG**

DRAWING TITLE  
**ELECTRICAL SITE PLAN DETAILS**

DATE **08.06.2012** | DRAWN BY **DJM**

JOB NUMBER  
**110102 / 11127**

DRAWING NUMBER

**E-1.3**

**TYEC** HVAC PLUMBING ELECTRICAL

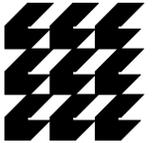
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E-MAIL: [tyec@tyecfa.com](mailto:tyec@tyecfa.com)

TEL: 561-274-4800  
FAX: 561-274-0222  
[www.tyecfa.com](http://www.tyecfa.com)

08.06.2012 BID-PERMIT SET

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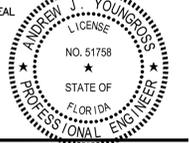
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ISSUED FOR : DRC 11.29.2011  
AAC (RESUBMITTAL) 01.18.2012  
P&Z 03.21.2012  
BIDS 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION



PROJECT TITLE

**CITY OF  
POMPAÑO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPAÑO BEACH, FL 33064

REVISIONS

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FILE NUMBER  
11127-E-2.1.DWG

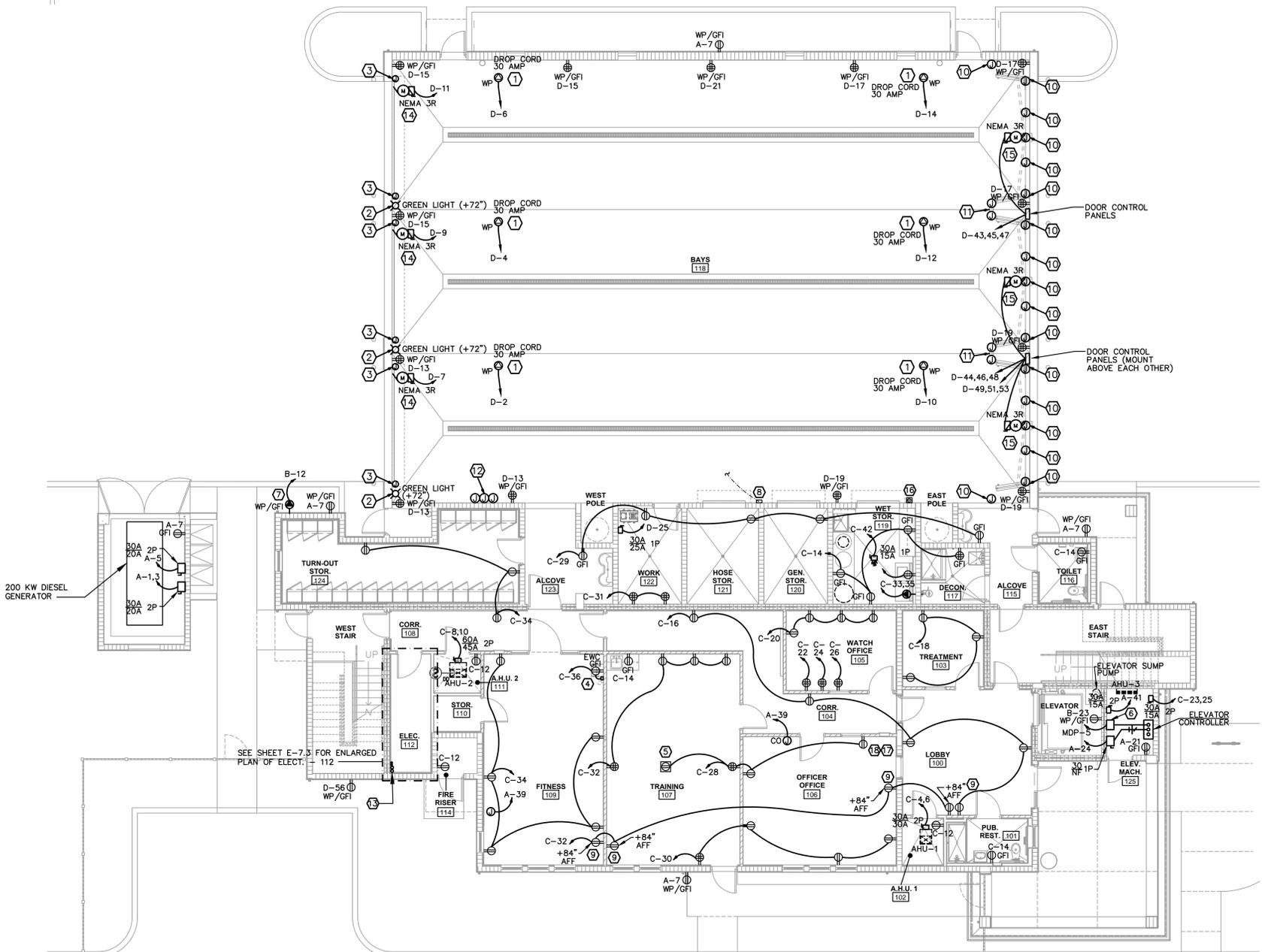
DRAWING TITLE  
**ELECTRICAL  
FIRST FLOOR  
PLAN - POWER**

DATE 08.06.2012 | DRAWN BY DJM  
JOB NUMBER 110102 / 11127  
DRAWING NUMBER

**E-2.1**

**NOTE:**  
CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL REQUIRED ACCESS PANELS FOR SHUT OFF VALVES, JUNCTION BOXES, VOLUME DAMPERS, ETC., WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.

PLAN KEY NOTES	
①	APPROXIMATE LOCATION OF (6) 30AMP-120V-18-LOCKING RECEPTACLE, ON THE END OF A DROP CORD. THE RECEPTACLE SHALL BE EQUAL TO A KUSSMAUL "091-73-CON-3P. SEE MOUNTING DETAIL, SHEET E-7.1. COORDINATE EXACT LOCATION OF DROP CORDS WITH OWNER BEFORE ROUGH-IN.
②	"STOP + GO" LIGHTING CONTROL. PROVIDE A J-BOX, MOUNTED AT +72" AFF, AND 3/4" C FOR CABLING CONNECTIONS. COORDINATE WITH COMPLETE OVERHEAD DOOR SHOP DRAWINGS PROVIDED BY GENERAL CONTRACTOR. ELECT. CONTRACTOR SHALL PROVIDE LIGHT FIXTURE.
③	PROVIDE A J-BOX MOUNTED @ 12" A.F.F. FOR GARAGE DOOR SAFETY SYSTEM; (2) BOXES ARE AT +84" FOR EACH BAY DOOR. PROVIDE A 3/4" CONDUIT FROM J-BOX TO GARAGE DOOR MOTOR CONTROL. INSTALL THE GREEN LIGHT, WHICH WILL INDICATE WHEN THE DOOR HAS REACHED THE FULLY OPEN POSITION. ACTIVATION OF THE GREEN LIGHT SHALL BE FROM A LIMIT SWITCH AT THE TOP OF THE DOOR. ALSO, PROVIDE A J-BOX IN CLOSE PROXIMITY TO DOOR MOTOR, WITH 3/4" CONDUIT ROUTED FROM DOOR MOTOR TO EXTERIOR FOR THE "ALL-STAR" RADIO RECEIVER FOR EACH DOOR, WHICH WILL PROVIDE REMOTE OPENING, CLOSING AND STOPPING. IN ADDITION, PROVIDE A J-BOX @ 48" A.F.F. FOR "UP/DN/STOP" CONTROL PAD, WITH 3/4" CONDUIT FROM J-BOX TO GARAGE DOOR MOTOR CONTROL. FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS, CONSULT SYSTEM VENDOR & G.C.
④	PROVIDE REMOTE RESET (LEVITON:8590-A) FOR EWC RECEPTACLE.
⑤	PROVIDE A SEPARATE FLOOR BOX FOR POWER AND DATA. ROUTE 3" CONDUITS IN FLOOR TO WALL.
⑥	PROVIDE BUSSMANN POWER MODULE SEE ELEV. DETAIL SHEET E-7.1.
⑦	PROVIDE 30 AMP, 120 VOLT GFI RECEPTACLE, WEATHERPROOF, WITH LOCKABLE COVER.
⑧	TIMER CONTROL AND MAINTENANCE MONITOR ELECTRICAL BOX FOR ACTIVATION OF SIX (6) EXHAUST FANS EF-1 WITH EXTERIOR MOUNTED REMOTE ACTIVATION PUSH BUTTON. SEE FAN LOCATIONS ON SHEET E-2.2.
⑨	COORDINATE EXACT LOCATIONS OF TV OUTLETS WITH OWNER PRIOR TO INSTALLATION OF ANY OUTLETS OR CONDUIT.
⑩	PROVIDE A J-BOX MOUNTED FOR GARAGE DOOR SAFETY SYSTEM. COORDINATE INSTALLATION WITH DOOR MANUFACTURER AND SHEET E-7.4. FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS, CONSULT SYSTEM VENDOR & G.C.
⑪	BOLLARD FOR DOOR CONTROL SYSTEM PHOTO EYES. SEE SHEET E-7.4 FOR DETAILS. FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS, CONSULT SYSTEM VENDOR & G.C.
⑫	PROVIDE A J-BOX @ 48" A.F.F. FOR "UP/DN/STOP" CONTROL PAD, ONE FOR EACH OF (3) WEST DOORS, WITH 3/4" CONDUIT FROM J-BOX TO GARAGE DOOR MOTOR CONTROL.
⑬	TWO 4" TELCO ENTRANCE CONDUITS & TWO 2" CABLE CO. ENTRANCE CONDUITS WITH PULL CORD. SEE SHEET E-1.1, E-2.2 & E-7.3 FOR ROUTING AND ADDITIONAL INFORMATION REGARDING THE TELCO & CABLE CO. ENTRANCE CONDUITS.
⑭	PROVIDE A 1P-20A-240V, NEMA-1, GENERAL DUTY NON-FUSED DISCONNECT, FOR APARATUS BAY DOOR MOTORS LOCATED ON WALL AND COORDINATE W/OVERHEAD DOOR MANUFACTURER SHOP DWGS.
⑮	PROVIDE A 3P-20A-240V, NEMA-1, GENERAL DUTY NON-FUSED DISCONNECT, FOR APARATUS BAY DOOR MOTORS LOCATED ON WALL AND COORDINATE W/OVERHEAD DOOR MANUFACTURER SHOP DWGS.
⑯	PROVIDE A J-BOX @ 48" A.F.F. FOR "OPEN/CLOSE" CONTROL PAD, ONE FOR EACH OF (3) EAST DOORS, WITH 3/4" CONDUIT FROM J-BOX TO GARAGE DOOR MOTOR CONTROL.
⑰	PROVIDE GENERATOR EMERGENCY OFF (EPO) SWITCH, SQUARE D BREAK GLASS TYPE. COORDINATE MOUNTING LOCATION IN BUILDING WITH OWNER. PROVIDE CONDUIT AND WIRE TO ATS SWITCH AND GENERATOR FOR EMERGENCY SHUT DOWN. PROVIDE CONTROL WIRE TO DAY TANK CONTROL PANEL FOR EMERGENCY SHUT DOWN.
⑱	PROVIDE GENERATOR REMOTE ANNUNCIATION PANEL. PROVIDE ONE 1" CONDUIT FROM PANEL TO GENERATOR FOR CONTROL WIRING. COORDINATE FINAL MOUNTING LOCATION IN BUILDING WITH OWNER. PROVIDE WIRE AS REQUIRED.

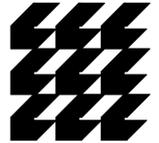


**ELECTRICAL FIRST FLOOR PLAN - POWER**

SCALE: 1/8"=1'-0"

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.  
DANIEL E. THOMPSON FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

08.06.2012 BID-PERMIT SET



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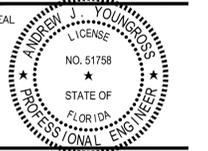
Architects, Planners  
& Interior Designers

AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: office@csa-architects.com

ISSUED FOR : DRC 11.29.2011  
AAC 01.18.2012  
AAC (RESUBMITTAL) 03.21.2012  
P&Z 08.06.2012  
BIDS 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION



PROJECT TITLE

**CITY OF  
POMPANO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

REVISIONS

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FILE NUMBER

11127-E-2.2.DWG

DRAWING TITLE

**ELECTRICAL  
SECOND FLOOR  
PLAN - POWER**

DATE

08.06.2012

DRAWN BY

DJM

JOB NUMBER

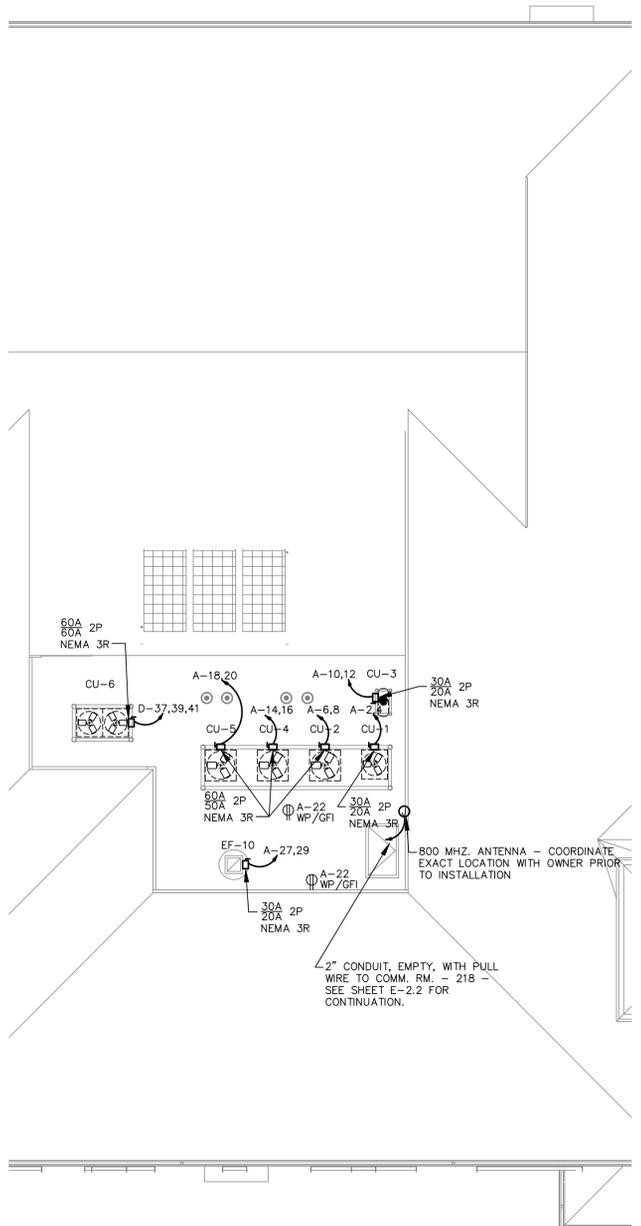
110102 / 11127

DRAWING NUMBER

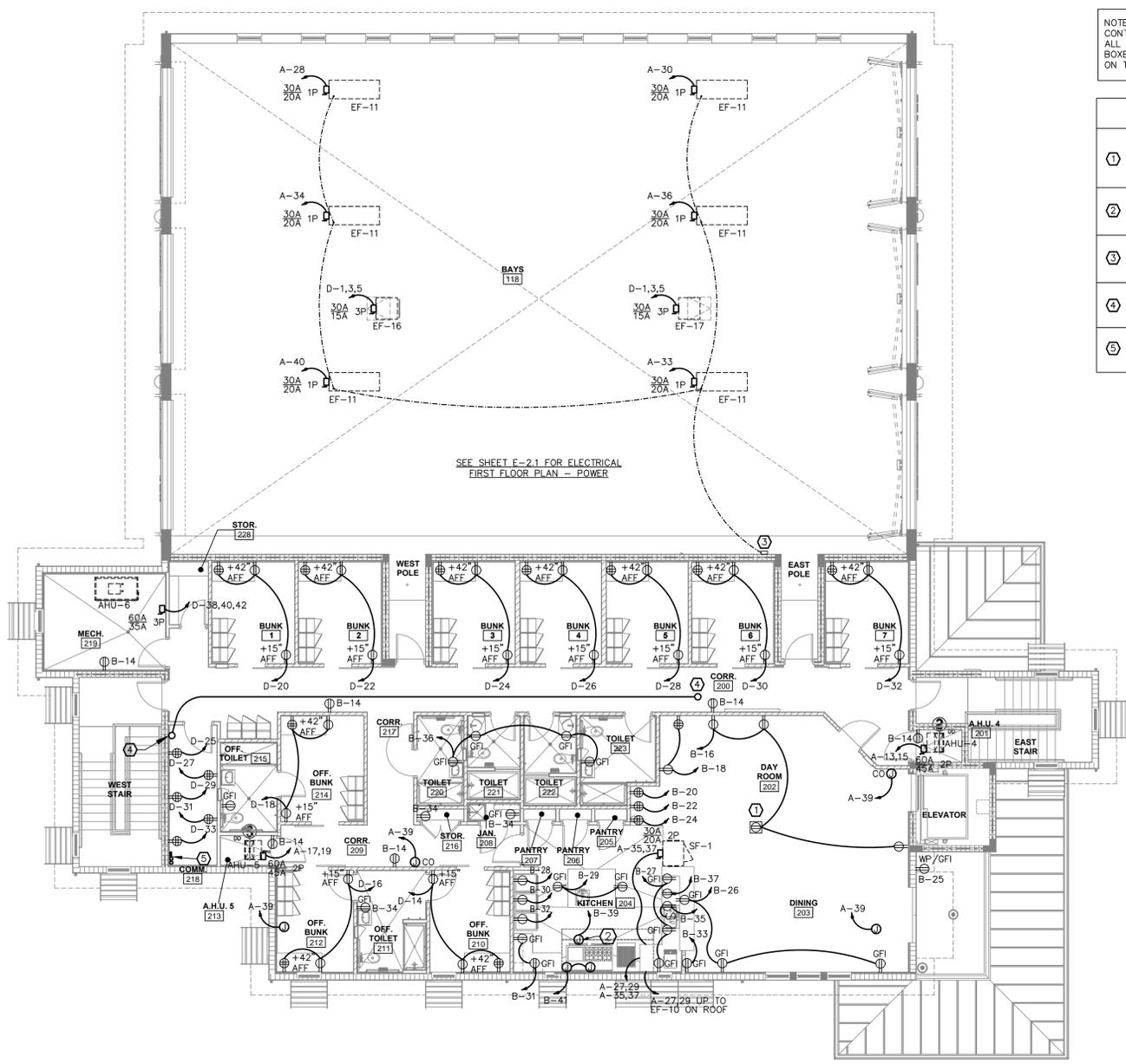
E-2.2

NOTE:  
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PLAN KEY NOTES	
①	PROVIDE A SEPARATE FLOOR BOX FOR POWER AND DATA. ROUTE 3" CONDUITS IN FLOOR TO WALL. NOTE THAT THIS J-BOX MAY BE FIELD ADJUSTED SO ELECTRICAL CONTRACTOR SHALL ALLOW A 20 FOOT RADIUS (MINIMUM) FROM LOCATION INDICATED. FIELD VERIFY.
②	PROVIDE A J-BOX FOR HOOD LIGHTING AND CONTROL COORDINATE FULL INSTALLATION WITH MECHANICAL CONTRACTOR, SYSTEM VENDOR, AND GENERAL CONTRACTOR.
③	TIMER CONTROL AND MAINTENANCE MONITOR ELECTRICAL BOX FOR ACTIVATION OF SIX (6) EXHAUST FANS EF-1 WITH EXTERIOR MOUNTED REMOTE ACTIVATION PUSH BUTTON LOCATED ON FIRST FLOOR PLAN - POWER, SHEET E-2.1.
④	2" CONDUIT, EMPTY, WITH PULL WIRE FROM COMM. RM. - 218 TO ANTENNA LOCATION ON ROOF - SEE SHEET E-1.1, E2.1 & E-7.3 FOR ROUTING AND ADDITIONAL INFORMATION REGARDING THE TELCO & CABLE CO. ENTRANCE CONDUITS.
⑤	TWO 4" TELCO ENTRANCE CONDUITS & TWO 2" CABLE CO. ENTRANCE CONDUITS WITH PULL CORD. SEE SHEET E-1.1, E2.1 & E-7.3 FOR ROUTING AND ADDITIONAL INFORMATION REGARDING THE TELCO & CABLE CO. ENTRANCE CONDUITS.



**ROOF PLAN - POWER**  
SCALE: 1/8"=1'-0"



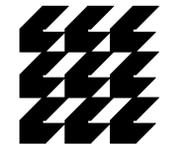
**ELECTRICAL SECOND FLOOR PLAN - POWER**  
SCALE: 1/8"=1'-0"

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.  
DANIEL E. THOMPSON  
FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

113 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
TEL: 561-274-8800  
FAX: 561-274-0222  
E-MAIL: tyec@tyec.com

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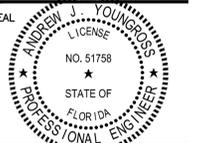
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ISSUED FOR : DRC 11.29.2011  
AAC 01.18.2012  
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AZ 08.06.2012  
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PERMIT 08.06.2012

CONSTRUCTION

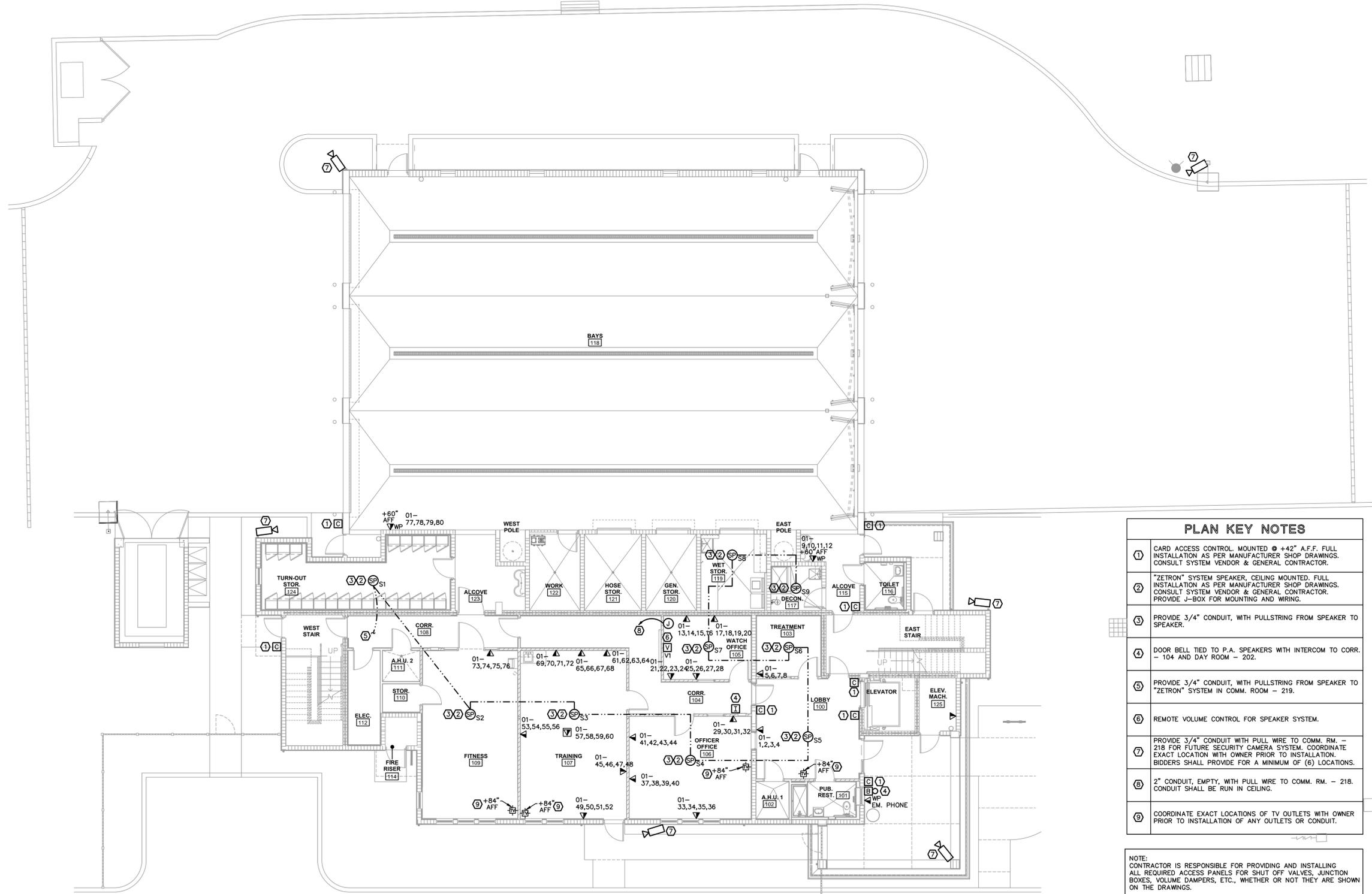


PROJECT TITLE

**CITY OF  
POMPAÑO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPAÑO BEACH, FL 33064

REVISIONS



PLAN KEY NOTES	
①	CARD ACCESS CONTROL. MOUNTED @ +42" A.F.F. FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS. CONSULT SYSTEM VENDOR & GENERAL CONTRACTOR.
②	"ZETRON" SYSTEM SPEAKER, CEILING MOUNTED. FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS. CONSULT SYSTEM VENDOR & GENERAL CONTRACTOR. PROVIDE J-BOX FOR MOUNTING AND WIRING.
③	PROVIDE 3/4" CONDUIT, WITH PULLSTRING FROM SPEAKER TO SPEAKER.
④	DOOR BELL TIED TO P.A. SPEAKERS WITH INTERCOM TO CORR. - 104 AND DAY ROOM - 202.
⑤	PROVIDE 3/4" CONDUIT, WITH PULLSTRING FROM SPEAKER TO "ZETRON" SYSTEM IN COMM. ROOM - 219.
⑥	REMOTE VOLUME CONTROL FOR SPEAKER SYSTEM.
⑦	PROVIDE 3/4" CONDUIT WITH PULL WIRE TO COMM. RM. - 218 FOR FUTURE SECURITY CAMERA SYSTEM. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. BIDDERS SHALL PROVIDE FOR A MINIMUM OF (6) LOCATIONS.
⑧	2" CONDUIT, EMPTY, WITH PULL WIRE TO COMM. RM. - 218. CONDUIT SHALL BE RUN IN CEILING.
⑨	COORDINATE EXACT LOCATIONS OF TV OUTLETS WITH OWNER PRIOR TO INSTALLATION OF ANY OUTLETS OR CONDUIT.

NOTE:  
CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL REQUIRED ACCESS PANELS FOR SHUT OFF VALVES, JUNCTION BOXES, VOLUME DAMPERS, ETC., WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.



**ELECTRICAL FIRST FLOOR PLAN - SYSTEMS**

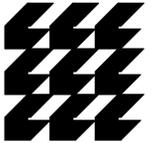
SCALE: 1/8"=1'-0"

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.  
DANIEL E. THOMPSON  
FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

11127-E-2.1.DWG  
DRAWING TITLE  
**ELECTRICAL  
FIRST FLOOR  
PLAN - SYSTEMS**  
DATE 08.06.2012 | DRAWN BY DJM  
JOB NUMBER 110102 / 11127  
DRAWING NUMBER  
**E-3.1**

112 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
TEL: 561-274-6500  
FAX: 561-274-0222  
E-MAIL: tyec@tyec.com

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Architects, Planners  
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AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: office@csa-architects.com

ISSUED FOR : DRC 11.29.2011  
AAC ..... 01.18.2012  
AC (RESUBMITTAL) 03.21.2012  
P&Z ..... 08.06.2012  
BIDS ..... 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION

SEAL

PROJECT TITLE  
**CITY OF  
POMPANO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

REVISIONS

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER  
11127-E-3.2.DWG

DRAWING TITLE  
**ELECTRICAL  
SECOND FLOOR  
PLAN - SYSTEMS**

DATE 08.06.2012 | DRAWN BY DJM

JOB NUMBER 110102 / 11127

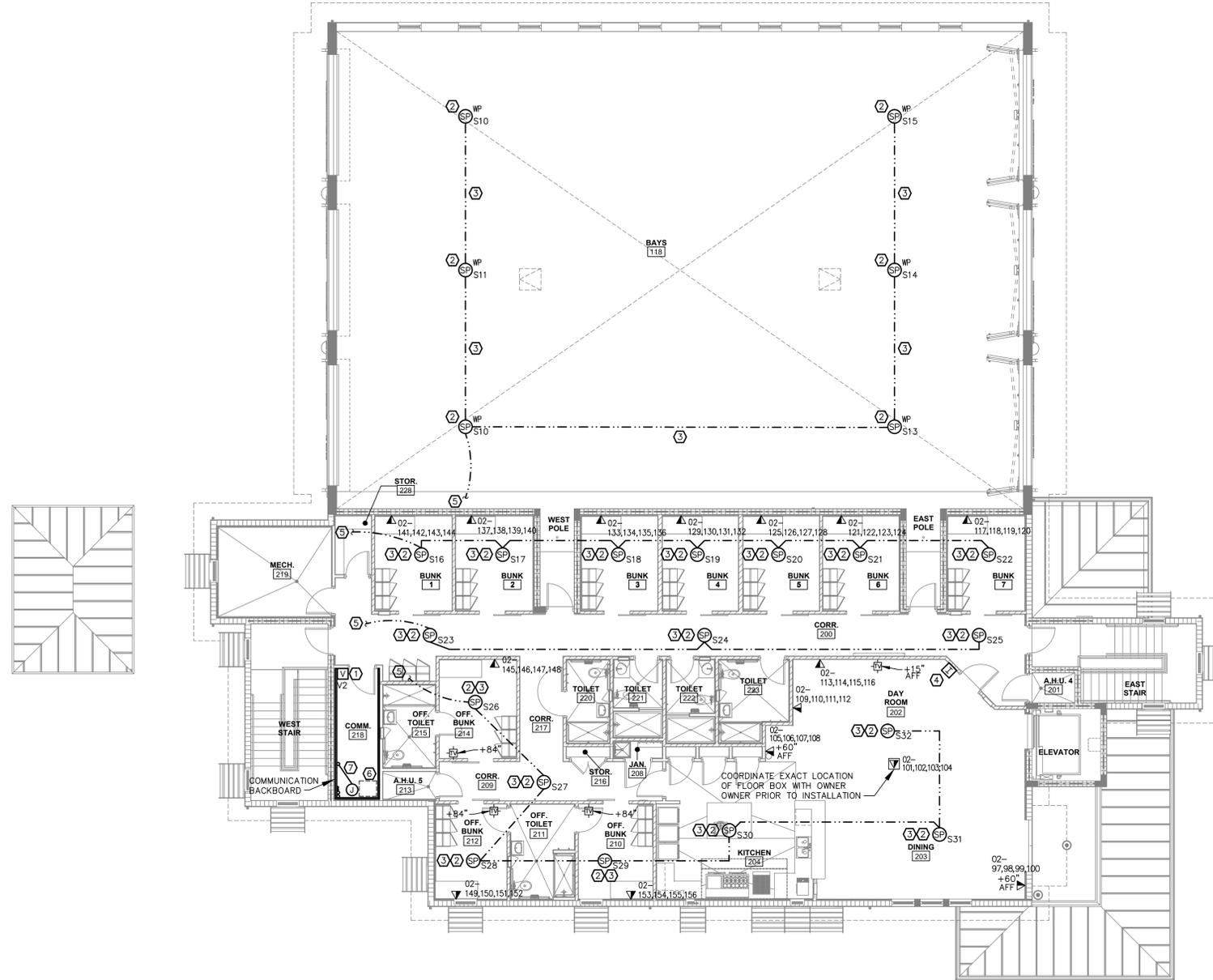
DRAWING NUMBER

**E-3.2**

NOTE:  
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**PLAN KEY NOTES**

①	REMOTE VOLUME CONTROL FOR SPEAKER SYSTEM.
②	"ZETRON" SYSTEM SPEAKER, CEILING MOUNTED. FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS. CONSULT SYSTEM VENDOR & GENERAL CONTRACTOR. PROVIDE J-BOX FOR MOUNTING AND WIRING.
③	PROVIDE 3/4" CONDUIT, WITH PULLSTRING FROM SPEAKER TO SPEAKER.
④	DOOR BELL TIED TO P.A. SPEAKERS WITH INTERCOM TO CORR. - 104 AND DAY ROOM - 202.
⑤	PROVIDE 3/4" CONDUIT, WITH PULLSTRING FROM SPEAKER TO "ZETRON" SYSTEM IN COMM. ROOM - 218.
⑥	LOCATION OF FIRE STATION ALERTING SYSTEM CONTROL PANEL MOUNT +42" A.F.F. COORDINATE EXACT LOCATION WITH FIRE STATION REPRESENTATIVE. PROVIDE FULL INSTALLATION AS PER MANUFACTURER SHOP DRAWINGS. CONSULT SYSTEM VENDOR & GENERAL CONTRACTOR.
⑦	PROVIDE A 3" CONDUIT FROM JUNCTION BOX, ROUTE IN CEILING CAVITY, TO COMM. ROOM. PROVIDE FULL INSTALLATION AS PER MFG. SHOP DRAWINGS. CONSULT SYSTEM VENDOR AND GENERAL CONTRACTOR.



**ELECTRICAL SECOND FLOOR PLAN - SYSTEMS**

SCALE: 1/8"=1'-0"

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.  
DANIEL E. THOMPSON  
FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

112 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
TEL: 561-274-4951  
FAX: 561-274-0222  
E-MAIL: te@tyec.com

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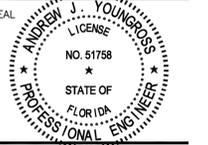
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FAX: 561 243-8184  
E-mail: office@csa-architects.com

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AAC 01.18.2012  
AAC (RESUBMITTAL) 03.21.2012  
P&Z 05.01.2012  
BIDS 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION



PROJECT TITLE

**CITY OF  
POMPAÑO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPAÑO BEACH, FL 33064

REVISIONS

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FILE NUMBER  
11127-E-4.1.DWG

DRAWING TITLE  
**ELECTRICAL  
FIRST FLOOR  
PLAN - LIGHTING**

DATE 08.06.2012 | DRAWN BY DJM

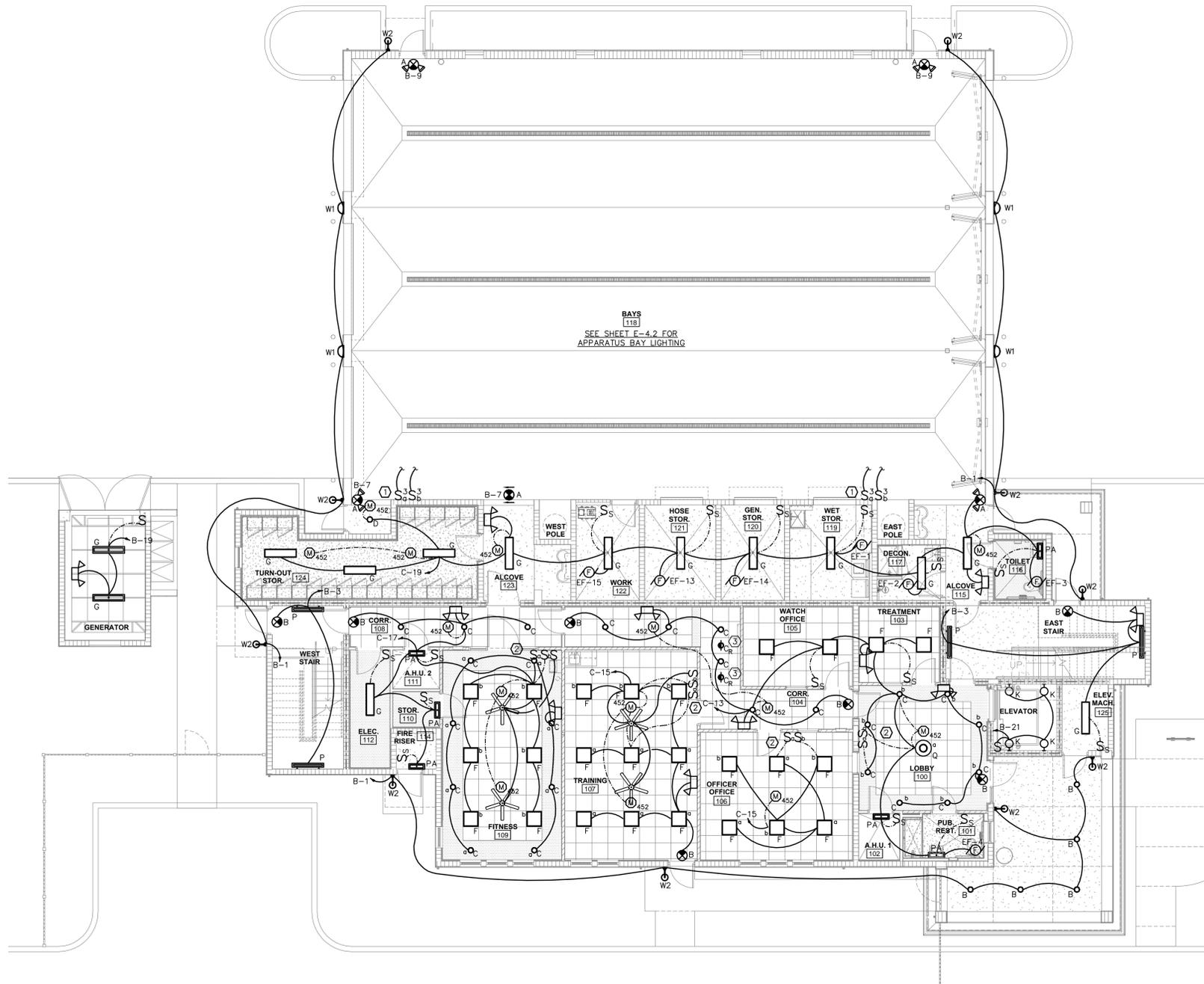
JOB NUMBER 110102 / 11127

DRAWING NUMBER

**E-4.1**

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PLAN KEY NOTES	
①	LIGHT SWITCHES FOR APPARATUS BAY LIGHTING - SEE FIXTURE LAYOUT ON SHEET E-4.2.
②	PROVIDE LIGHT SWITCH "OFF" OVERRIDE FOR LIGHT FIXTURES IN ROOMS WHERE INDICATED.
③	FIXTURE SHALL BE PROVIDED WITH A RED LENS. CONNECT FIXTURES TO CIRCUIT B-5. CIRCUIT SHALL BE CONTROLLED BY NORMALLY OPEN CONTACTOR IN STATION ALERTING SYSTEM.



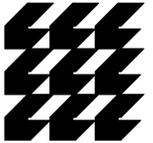
**ELECTRICAL FIRST FLOOR PLAN - LIGHTING**

SCALE: 1/8"=1'-0"

S:\CAD\TITLEBLOCKS\tyec.jpg	HVAC PLUMBING ELECTRICAL
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC "TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE." DANIEL E. THOMPSON FLA. REG. NO. 33289 ANDREW J. YOUNGROSS FLA. REG. NO. 51758 CERTIFICATE OF AUTHORIZATION NO. 25996	
112 S.E. 10th STREET DELRAY BEACH, FL 33483 E-MAIL: te@tecflo.com	TEL: 561-274-0200 FAX: 561-274-0221 www.tecflo.com

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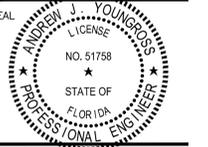
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PROJECT TITLE

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FIRE STATION 103**

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FILE NUMBER

11127-E-4.2.DWG

DRAWING TITLE

**ELECTRICAL  
SECOND FLOOR  
PLAN - LIGHTING**

DATE

08.06.2012 | DRAWN BY

JDM

JOB NUMBER

110102 / 11127

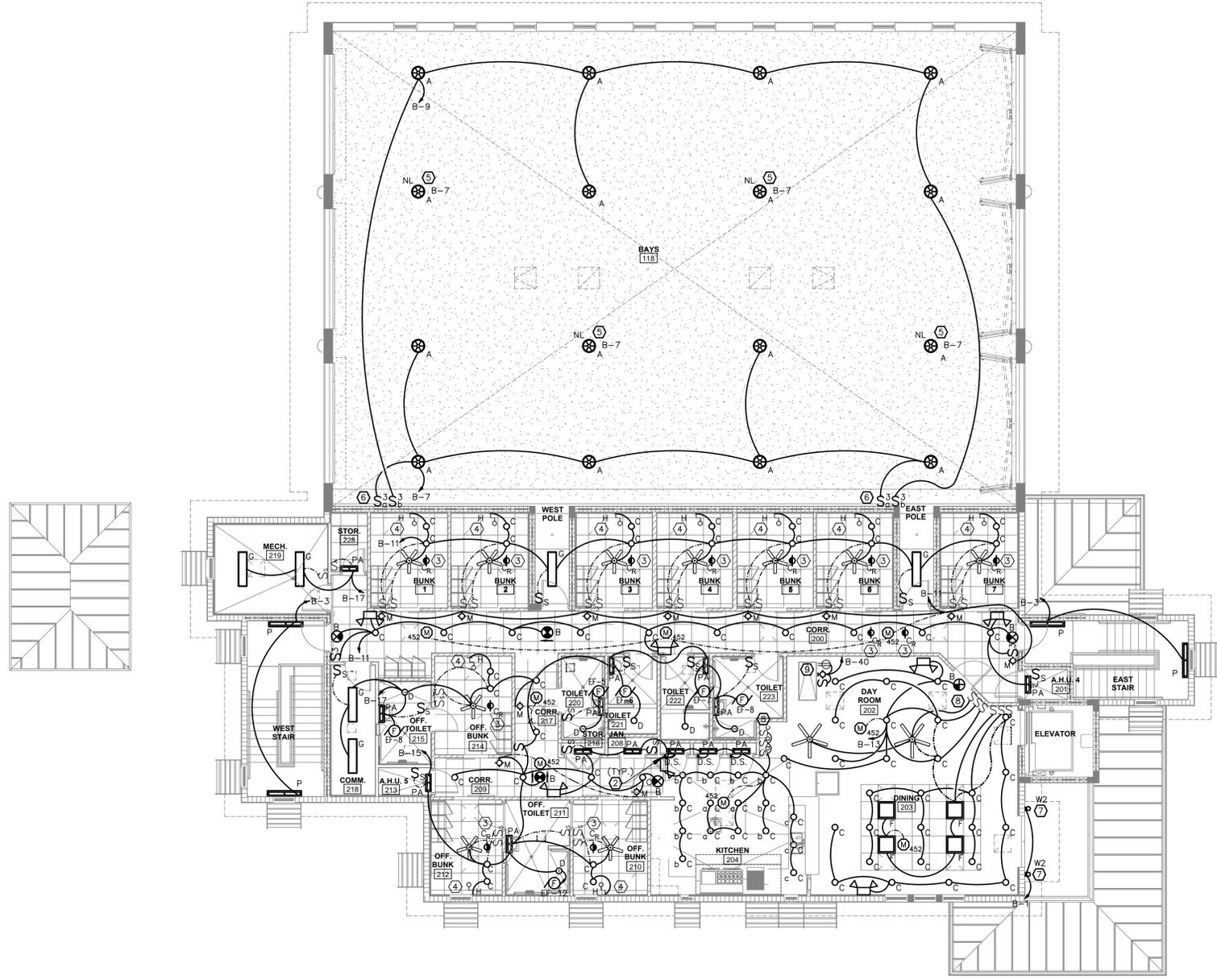
DRAWING NUMBER

**E-4.2**

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**PLAN KEY NOTES**

- 1 ALL EXIT SIGNS ARE WIRED AHEAD ANY LOCAL LIGHTING CONTROLS. (TYP.)
- 2 PROVIDE "DOOR SWITCH" SHOWN AS (D.S.) ON PLAN TO CONTROL FIXTURE TYPE "PA". (TYP.)
- 3 FIXTURE SHALL BE PROVIDED WITH A RED LENS. CONNECT FIXTURES TO CIRCUIT B-5. CIRCUIT SHALL BE CONTROLLED BY NORMALLY OPEN CONTACTOR IN STATION ALERTING SYSTEM.
- 4 WIRE / CONNECT LIGHTING FIXTURE TYPE "H" AHEAD OF LOCAL SWITCH IN EACH ROOM. EXACT LOCATION SHALL BE COORDINATED WITH OWNER PRIOR TO INSTALLATION.
- 5 NIGHT LIGHT (NL) FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL AREA SWITCHING.
- 6 SWITCHES FOR APPARATUS BAYS ARE LOCATED ON FIRST FLOOR PLAN - LIGHTING, SHEET E-4.1.
- 7 EXTERIOR LIGHTING SHALL BE CONTROLLED VIA CONTACTOR AND TIME CLOCK CONTROL.
- 8 CONTRACTOR SHALL WIRE OCCUPANCY SENSOR(S) AHEAD OF SINGLE POLE SWITCH(S) SO THAT THE SENSOR(S) CONTROL ALL THE LIGHTING IN THE SPACE AND THE SINGLE POLE SWITCH(S) CONTROL SPECIFIC LIGHTING AS INDICATED.
- 9 PROVIDE PORCELAIN LIGHT OUTLET, SWITCH AND RECEPTACLE AT TOP OF ATTIC STAIRS NEAR OPENING FOR USE IN ATTIC.



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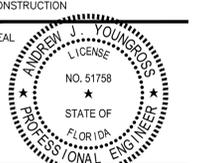


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FILE NUMBER  
11127-E-5.1.DWG

DRAWING TITLE  
**ELECTRICAL  
ROOF PLAN  
LIGHTNING  
PROTECTION**

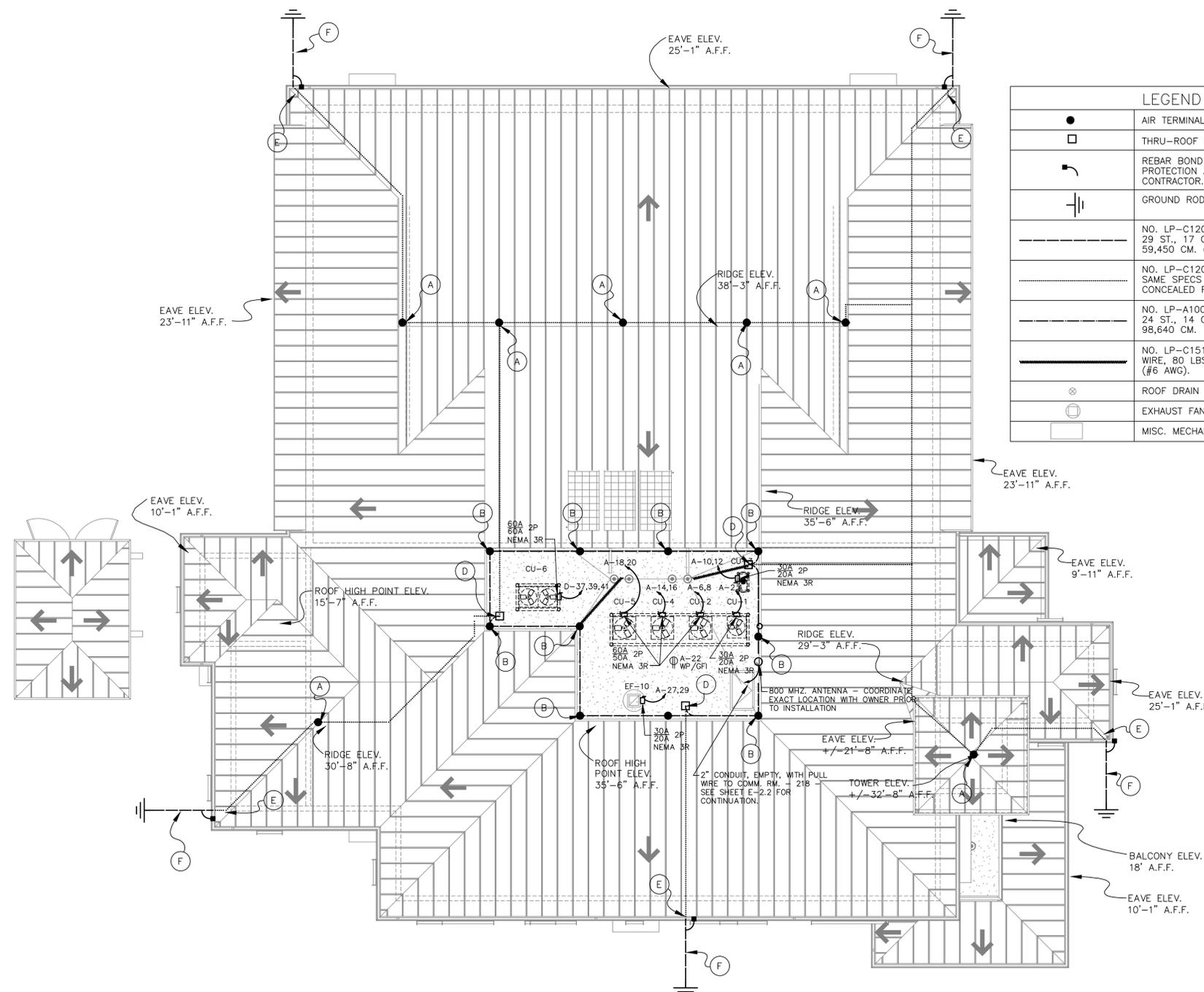
DATE 08.06.2012 | DRAWN BY DJM  
JOB NUMBER 110102 / 11127  
DRAWING NUMBER

**E-5.1**

GENERAL INSTALLATION NOTES	
1	ARRESTERS ARE REQUIRED ON ELECTRICAL SERVICE PANEL, DATA AND TELEPHONE LINE ENTRANCES BY THE ELECTRICAL CONTRACTOR OR BY VARIOUS UTILITY AGENCIES.
2	TELEPHONE AND/OR ELECTRICAL SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO ONE LIGHTNING PROTECTION GROUND. PVC CONDUIT SUPPLIED BY THE ELECTRICAL CONTRACTOR.
3	METAL BODIES OF INDUCTANCE LOCATED ABOUT THE ROOF SUCH AS; METAL FLASHING, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, INSULATION VENTS, LOUVERS AND DOOR FRAMES SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM BY DIRECT OR INDIRECT MEANS.
4	NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".
5	CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM MOST AIR TERMINAL, HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
6	ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING. EXPOSED CONDUIT 4'-0".
7	GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 10'-0" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
8	CONNECTIONS TO GROUND LOOP CONDUCTOR WHEN REQUIRED SHALL BE MADE AT A POINT NOT LESS THAN 18" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
9	AIR TERMINALS SHALL BE PLACED AT ALL UNPROTECTED OUTSIDE CORNERS AND LOCATED INTERMEDIATELY ON 20'-0" MAXIMUM SPACING AROUND THE ROOF PERIMETER OR RIDGE AND WITHIN 2'-0" OF OUTSIDE EDGE UNLESS OTHERWISE PROTECTED.
10	FOR SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.
11	BOND ALL METALLIC PIPES INCLUDING WATER, FIRE, GAS, SEWER, STORM, ETC. WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR GROUND LOOP BY DIRECT OR INDIRECT MEANS.
12	BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM OR GALVANIZED ROOFING OR SIDING OR OTHER ALUMINUM OR GALVANIZED SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR SIDING OR OTHER COPPER SURFACES.
13	THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
14	ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
15	MIDROOF AIR TERMINALS SHALL BE PLACED ON 50'-0" MAXIMUM SPACING.
16	IF REQUIRED, ANY SACRIFICIAL ROOFING PADS, SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR.
17	ALL ADHESIVE TYPE FITTINGS SHALL BE SET IN PLACE WITH AN APPLICATION OF CHEM LINK M-1 STRUCTURAL SEALANT ON NON-BALUSTED ROOFS.
18	SEAL ENDS OF CONDUIT MOISTURE TIGHT WITH CHEM LINK M-1 STRUCTURAL SEALANT.
19	ALL CONDUIT, CONDUIT FASTENERS AND MISCELLANEOUS ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
20	ALL REINFORCING, STRUCTURAL, FRAMING AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGHOUT CONSTRUCTION BY WELDING, CLIPPING, BOLTING OR OTHER APPROVED METHODS BY THE GENERAL CONTRACTOR.
21	THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF UNDERWRITERS' LABORATORIES STANDARD 96A FOR MASTER LABELED LIGHTNING PROTECTION SYSTEMS WHEN REQUIRED BY SPECIFICATION.
22	THE DESIGN LAYOUT AND INSTALLATION DETAILS SHOWN HEREON SHALL MEET THE REQUIREMENTS OF NATIONAL FIRE PROTECTION ASSOCIATION STANDARD #780, CURRENT EDITION WHEN REQUIRED BY SPECIFICATION.
23	THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN ALL RESPECTS TO LIGHTNING PROTECTION INSTITUTE STANDARD 175. THE INSTALLATION SHALL BE MADE BY OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER. WHEN REQUIRED BY SPECIFICATION.

NOTE: THE DESIGN LAYOUT AND INSTALLATION PROCEDURES SHOWN FOR THE BUILDING LIGHTNING PROTECTION SYSTEM AND THE COMPONENT PARTS SHOWN HEREON ARE ILLUSTRATED AS A STANDARD OF QUALITY BY BONDED LIGHTNING PROTECTION 2080 W. INDIANTOWN ROAD, JUPITER, FLORIDA 33458. PHONE:561-746-4336 FAX:561-747-8233

LEGEND	
●	AIR TERMINAL LOCATION
□	THRU-ROOF LOCATION
⌋	REBAR BOND PROVIDED BY BONDED LIGHTNING PROTECTION AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
⏏	GROUND ROD LOCATION
---	NO. LP-C120 COPPER CABLE, U.L. LABELED, 29 ST., 17 GA., 192 LBS./1,000 FT., 59,450 CM. (#2 AWG).
---	NO. LP-C120 COPPER CABLE, U.L. LABELED, SAME SPECS AS ABOVE, COURSE CABLE CONCEALED FROM VIEW SHOWN.
---	NO. LP-A100 ALUMINUM CABLE, U.L. LABELED, 24 ST., 14 GA., 102 LBS./1,000 FT., 98,640 CM.
---	NO. LP-C151 COPPER SECONDARY BONDING WIRE, 80 LBS./1,000 FT., 26,240 CM. (#6 AWG).
⊗	ROOF DRAIN
⊙	EXHAUST FAN
□	MISC. MECHANICAL EQUIPMENT



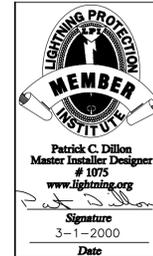
**ELECTRICAL ROOF PLAN - LIGHTNING PROTECTION**  
SCALE: 1/8"=1'-0"

**LIGHTNING PROTECTION SYSTEM**

PROJECT:  
**POMPANO BEACH FIRE STATION NO. 103**

POMPANO BEACH, FLORIDA  
INSTALLER & DESIGNER:  
**BONDED**  
LIGHTNING PROTECTION SYSTEMS, INC.  
INSTALLING MEMBER OF THE LIGHTNING PROTECTION INSTITUTE  
PHONE: 561-746-4336 FAX: 561-747-8233  
2080 W. INDIANTOWN ROAD, SUITE 100 JUPITER, FLORIDA 33458

MANUFACTURER  
**ERITECH**  
ERITECH LIGHTNING PROTECTION PRODUCTS  
L.P.I. - MEMBER - U.L.P.A.  
PHONE: 1-800-677-9089  
E-MAIL: eritechlp@erico.com  
34600 SOLON ROAD, SOLON OHIO 44139



**TYEC** HVAC PLUMBING ELECTRICAL

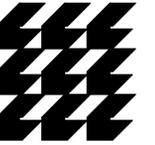
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CERTIFICATE OF AUTHORIZATION NO. 25986

112 S.E. 10th STREET  
DELRAY BEACH, FL. 33483  
C-MAIL: tyec@tyec.com

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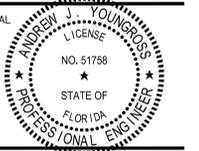
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**CITY OF  
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FIRE STATION 103**

3721 N.E. 12th Avenue  
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FILE NUMBER

11127-E-5.2.DWG

DRAWING TITLE

**LIGHTNING  
PROTECTION  
SYSTEM DETAILS**

DATE

08.06.2012

DRAWN BY

DJM

JOB NUMBER

110102 / 11127

DRAWING NUMBER

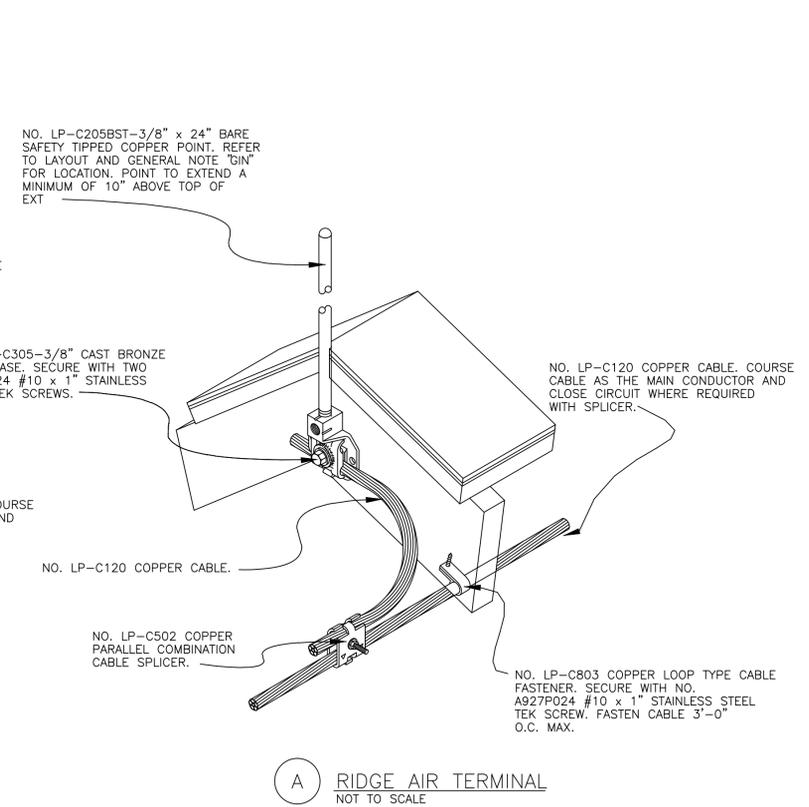
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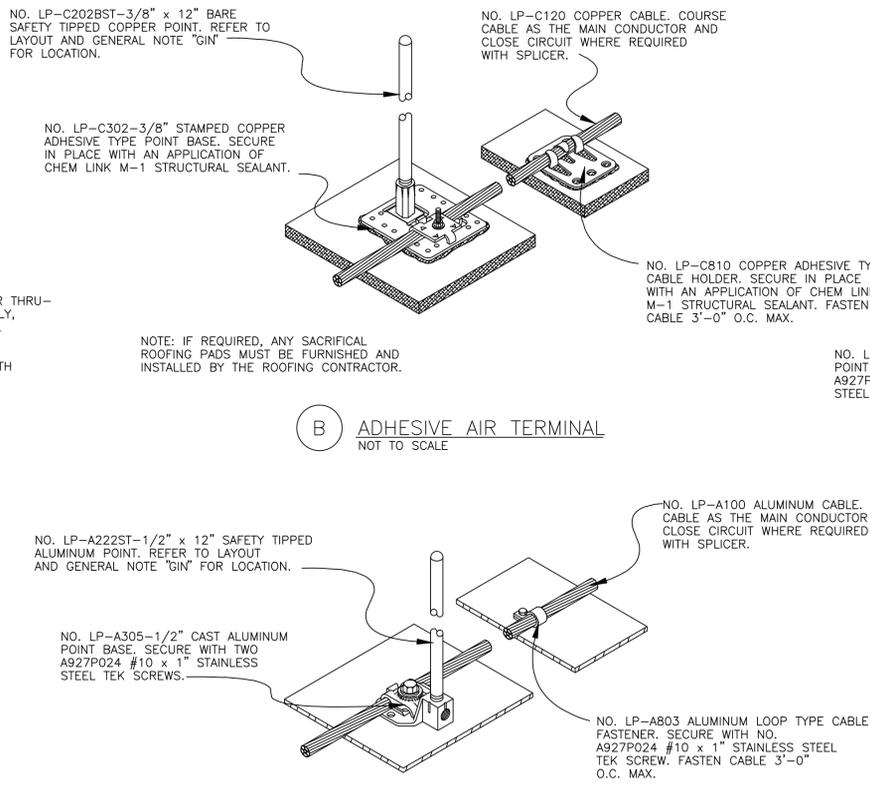
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
"TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE."  
DANIEL E. THOMPSON  
FLA. REG. NO. 33289  
ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

112 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
E-MAIL: te@tyecfla.com

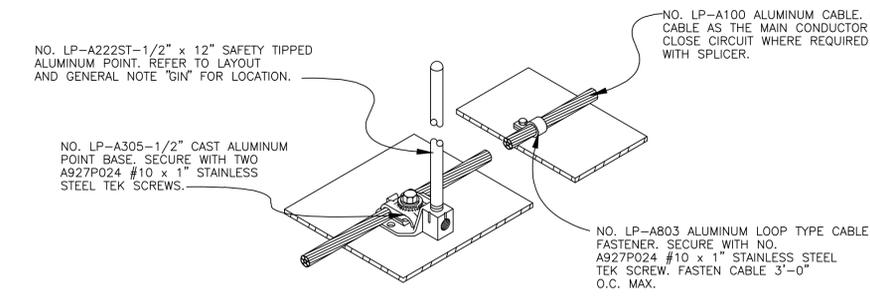
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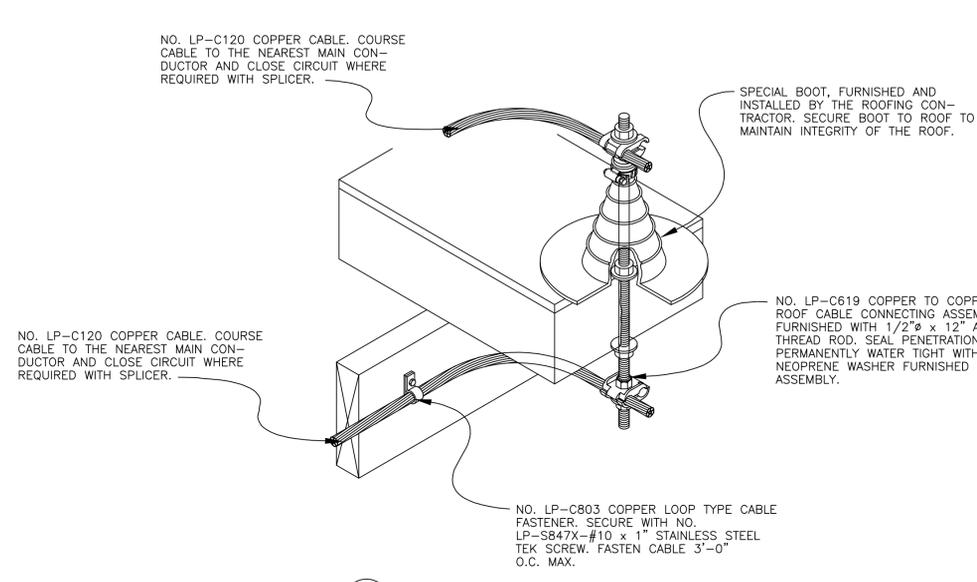
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NOT TO SCALE



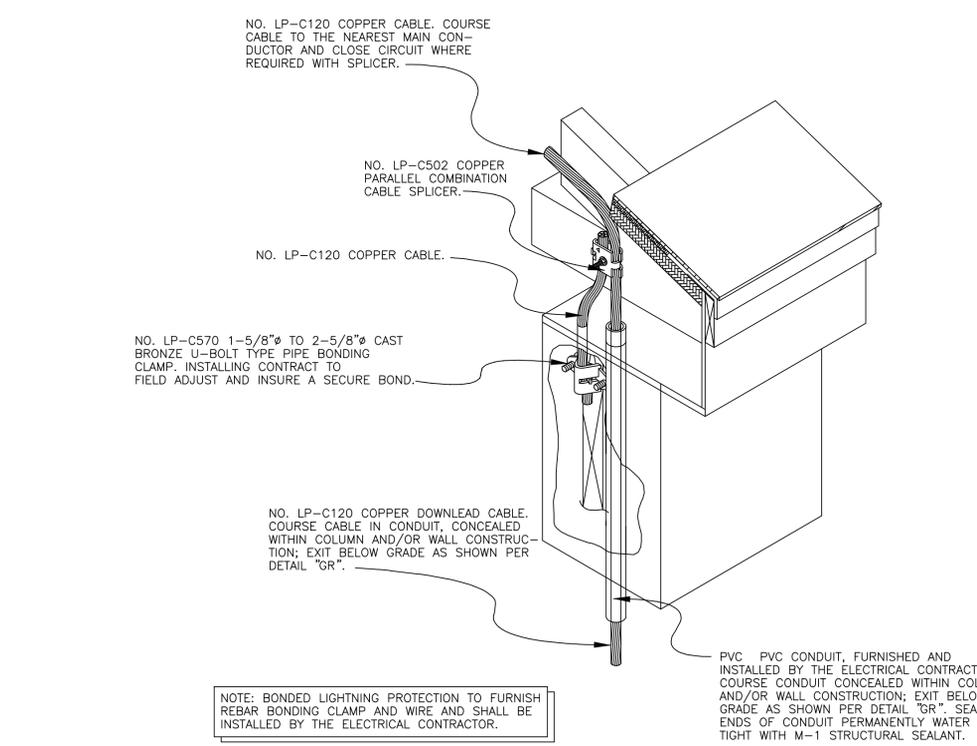
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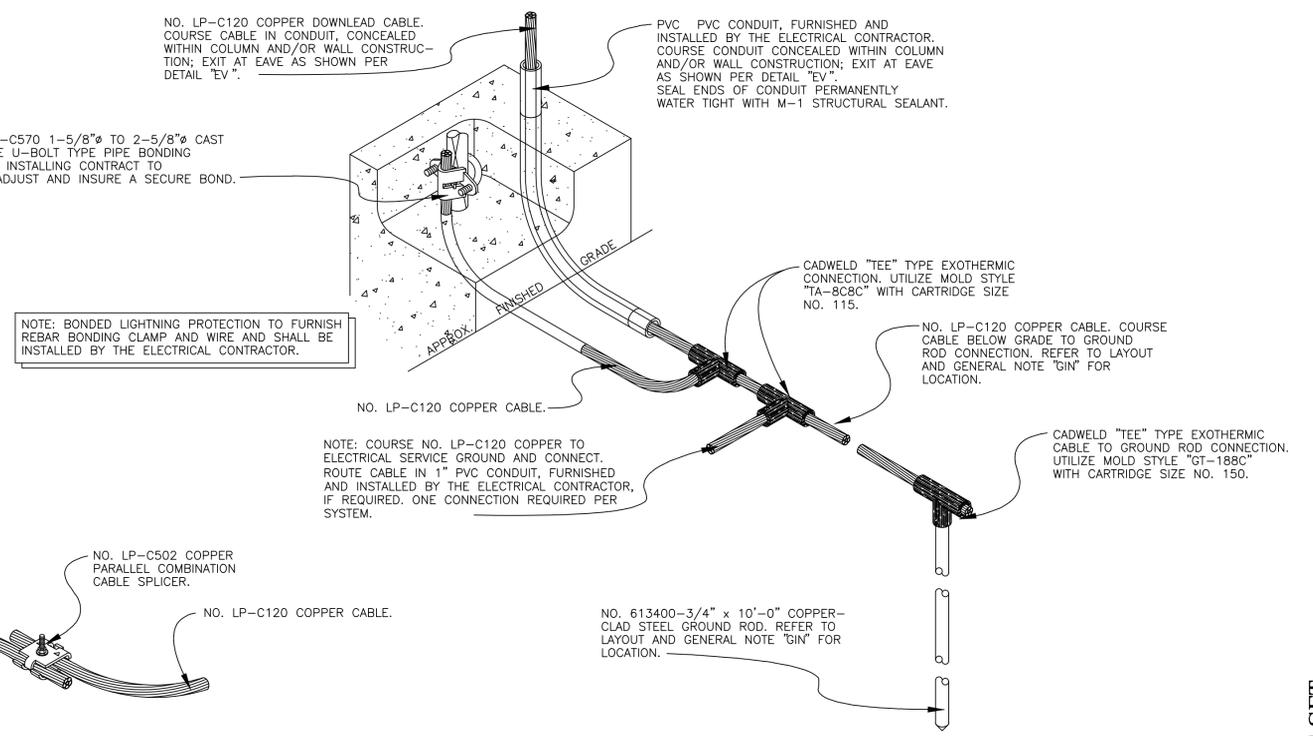
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NOT TO SCALE



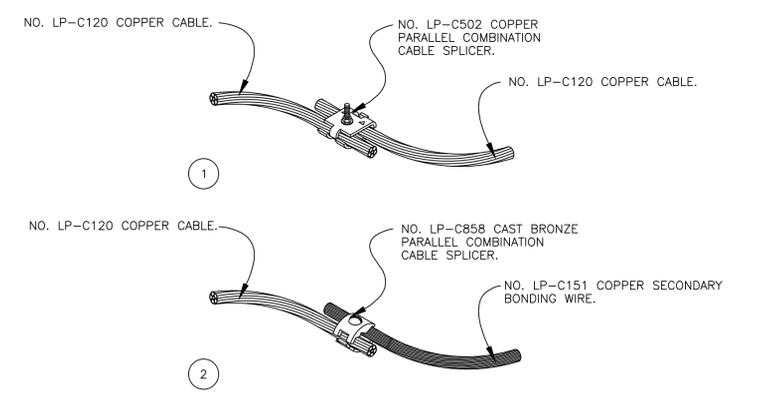
**D THRU-ROOF CABLE CONN.**  
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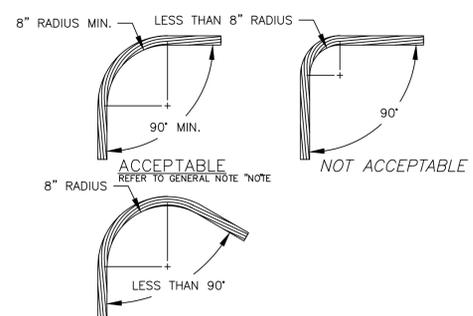
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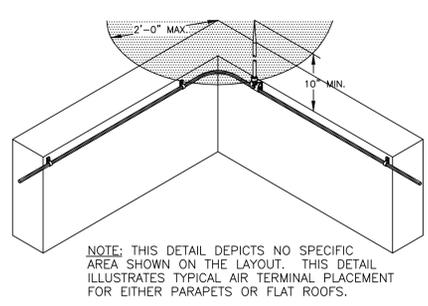
**F CONCEALED DOWNLEAD TO GROUNDING CONN.**  
NOT TO SCALE



**G TYP. BOLT TYPE CABLE SPLICERS**  
NOT TO SCALE



**J TYP. CABLE BEND REQUIREMENTS**  
NOT TO SCALE



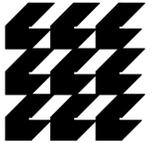
**H TYP. AIR TERMINAL PLACEMENT AT OUTSIDE CORNERS**  
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**LIGHTNING PROTECTION SYSTEM DETAILS**  
N.T.S.

08.06.2012 BID-PERMIT SET

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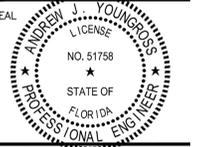
Architects, Planners  
& Interior Designers

AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: office@csa-architects.com

ISSUED FOR: **DRC 11.29.2011**  
AAC (RESUBMITTAL) **01.18.2012**  
P&Z **03.21.2012**  
BIDS **08.06.2012**

PERMIT **08.06.2012**

CONSTRUCTION



PROJECT TITLE

**CITY OF  
POMPANO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

REVISIONS

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ARCHITECT AND ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

FILE NUMBER

**11127-E-6.1.DWG**

DRAWING TITLE

**ELECTRICAL  
RISER DIAGRAM  
AND SCHEDULES**

DATE

**08.06.2012** | DRAWN BY

**DJM**

JOB NUMBER

**110102 / 11127**

DRAWING NUMBER

**E-6.1**

BUS KVA			LOAD			WIRE			BUS A B C			AMPS			LOAD			BUS KVA		
A	B	C							A	B	C							A	B	C
1.1			SITE LIGHTING	*	#8	#8	20	1	2	30	#12	#12	20	RECEPT - 110			0.2			
1.1			SPARE													2.5				
			SPARE													2.5				
			SIGN & FLAG LIGHTS	*	#12	#12	20	4	5	45	#10	#8	45	AHU-2			3.8			
0.8			LTS - 100,01,02,03,04,05		#12	#12	20	6	7	20	#12	#12	20	RECEPTS - 102, 111, 114			0.6			
1.3			LTS - 106, 107		#12	#12	20	8	9	20	#12	#12	20	RECEPTS - 101, 107, 116			0.6			
0.7			LTS - 108,09,10,11,12,14		#12	#12	20	10	11	20	#12	#12	20	RECEPTS - 103			0.7			
			LTS - 115,16,17,19,21,22,23,24,25		#12	#12	20	12	13	20	#12	#12	20	RECEPTS - 105			0.4			
			SPARE													0.4				
0.2			AHU-3		#12	#12	15	14	15	20	#12	#12	15	RECEPTS - 105			0.4			
			RECEPTS - 108, 111, 124		#12	#12	20	16	17	20	#12	#12	20	RECEPTS - 106, 107			0.9			
0.7			RECEPTS - 115,20,21,22,23		#12	#12	20	18	19	20	#12	#12	20	RECEPTS - 106, 107			0.9			
0.4			RECEPTS - 122		#12	#12	20	20	21	20	#12	#12	20	RECEPTS - 107			0.9			
			RECEPT - 119 - DRYER		#10	#10	30	22	23	30	#12	#12	30	RECEPTS - 109			0.9			
			RECEPT - 119 - WASHER		#12	#12	20	24	25	20	#12	#12	20	RECEPTS - 109 - EWC			0.7			
			SPARE																	
			WATER SENSOR CONTROL		#12	#12	20	26	27	20	#12	#12	20	RECIRCULATION PUMP			0.4			

TOTAL KVA: BUS A 11.7 BUS B 15.5 BUS C 11.0 CONNECTED KVA: 38.2 AMPERES: BUS A - BUS B - BUS C - TOTAL SEE LOAD CALCULATION  
 RATED VOLTAGE: 120/208 120/240 277/480 3 PHASE, 4 WIRE BRANCH POLES 12 18 20 24 30 36 42  
 RATED AMPS: 100 225 400 150 CABINET: SURFACE FLUSH  
 FULL NEUTRAL BUS GROUND BUS HINGED DOOR KEYPAD DOOR LATCH ENCLOSURE TYPE -  
 BRANCH DEVICES FUSED CIRCUIT BREAKER (BOLT-IN)  
 MAIN LUGS ONLY MAIN AMPS BREAKER FUSED SWITCH TO BE GFI BREAKERS  
 ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT OF 22,000 AMPS SYMMETRICAL.  
 ACCEPTABLE MANUFACTURERS: SQUARE D, GE, ITE, WESTINGHOUSE

**LOAD CALCULATION**  
 LIGHTS @ 125% = 6.2 x 1.25 = 7.8 KVA  
 EQUIPMENT @ 100% = 13.6 KVA  
 1ST 10 KVA @ 100% = 10.0 KVA  
 REMAINDER @ 50% = 3.9 KVA  
**TOTAL = 35.3 KVA = 98.1 AMPS**

BUS KVA			LOAD			WIRE			BUS A B C			AMPS			LOAD			BUS KVA		
A	B	C							A	B	C							A	B	C
1.1			BLDG. MTD. EXT. LIGHTS	*	#12	#12	20	1	2	20	#12	#12	20	FIRE ALARM CONTROL PANEL			0.2			
0.5			LIGHTS - STAIRS		#12	#12	20	3	4	20	#12	#12	20	RECEPT - 218			0.2			
			LIGHTS - ZETRON SYSTEM		#12	#12	20	5	6	20	#12	#12	20	RECEPTS - SITE LTG. POLES			1.1			
1.7			LTS. - 118 APPARATUS BAYS		#12	#12	20	7	8	20	#12	#12	20	RECEPTS - SITE LTG. POLES			1.1			
			LTS. - 200, 201, BUNKS 1-7		#12	#12	20	9	10	20	#12	#12	20	RECEPTS - SITE LTG. POLES			2.5			
0.7			LTS. - 202, 203		#12	#12	20	11	12	20	#10	#10	20	RECEPT - EXTERIOR			1.1			
0.7			LTS. - 204-13, 216		#12	#12	20	13	14	20	#12	#12	20	RECEPTS - 200,201,209,213			0.7			
0.2			LTS. - 214, 215, 217-223		#12	#12	20	15	16	20	#12	#12	20	RECEPTS - 202			0.6			
			LIGHTS - GENERATOR ENCL.		#12	#12	20	17	18	20	#12	#12	20	RECEPTS - 202			1.2			
0.4			LIGHTS - ELEV. PIT		#12	#12	20	19	20	20	#12	#12	20	RECEPTS - 202			1.2			
			RECEPT - ELEV. PIT		#12	#12	20	21	22	20	#12	#12	20	RECEPTS - 202			1.2			
0.2			RECEPTS - 2ND FL. BALCONY		#12	#12	20	23	24	20	#12	#12	20	RECEPTS - 202			1.5			
			RECEPTS - 204 - SM. APP.		#12	#12	20	25	26	20	#12	#12	20	RECEPTS - 204 - SM. APP.			1.2			
1.5			RECEPTS - 204 - SM. APP.		#12	#12	20	27	28	20	#12	#12	20	RECEPTS - 204 - REF.			1.2			
			RECEPTS - 204 - SM. APP.		#12	#12	20	29	30	20	#12	#12	20	RECEPTS - 204 - REF.			1.2			
			RECEPTS - 204 - ICE		#12	#12	20	31	32	20	#12	#12	20	RECEPTS - 204 - REF.			0.7			
1.2			RECEPTS - 204 - DISP.		#12	#12	20	33	34	20	#12	#12	20	RECEPTS - 208,211,215,216			0.7			
			RECEPTS - 204 - DW		#12	#12	20	35	36	20	#12	#12	20	RECEPTS - 220,221,222,223			0.7			
			RECEPTS - 204 - HOOD		#12	#12	20	37	38	20	#12	#12	20	SPARE			0.4			
0.5			J-BOX - 204 - GAS CONTROL		#12	#12	20	39	40	20	#12	#12	20	RECEPT & LIGHT - ATTIC			0.4			
			SPARE																	

TOTAL KVA: BUS A 12.9 BUS B 12.0 BUS C 12.4 CONNECTED KVA: 37.3 AMPERES: BUS A - BUS B - BUS C - TOTAL SEE LOAD CALCULATION  
 RATED VOLTAGE: 120/208 120/240 277/480 3 PHASE, 4 WIRE BRANCH POLES 12 18 20 24 30 36 42  
 RATED AMPS: 100 225 400 150 CABINET: SURFACE FLUSH  
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 ACCEPTABLE MANUFACTURERS: SQUARE D, GE, ITE, WESTINGHOUSE

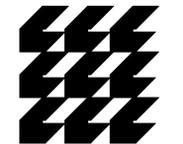
**LOAD CALCULATION**  
 LIGHTS @ 125% = 9.2 x 1.25 = 11.5 KVA  
 1ST 10 KVA @ 100% = 10.0 KVA  
 REM. OF RECEPTS @ 50% = 9.1 KVA  
**TOTAL = 30.6 KVA = 85.0 AMPS**

BUS KVA			LOAD			WIRE			BUS A B C			AMPS			LOAD			BUS KVA		
A	B	C							A	B	C							A	B	C
0.8			DISC. SW. - JACKET WATER HTR		#12	#12	20	1	2	20	#12	#12	20	CU-1			1.0			
0.8			DISC. SW. - BATTERY CHARGER		#12	#12	20	3	4	20	#12	#12	20	CU-2			2.5			
0.4			RECEPTS - EXTERIOR		#12	#12	20	5	6	50	#10	#8	50	CU-3			1.2			
			SPARE													1.2				
3.8			AHU-4		#8	#10	45	7	8	15	#12	#12	15	CU-4			(2.5)			
			RECEPTS - 200,201,209,213		#12	#12	20	9	10	50	#10	#8	50	CU-5			(2.5)			
3.8			AHU-5		#8	#10	45	11	12	50	#10	#8	50	NON-CONCURRENT			(2.5)			
			RECEPTS - 202		#12	#12	20	13	14	50	#10	#8	50	NON-CONCURRENT			(2.5)			
3.8			RECEPT - 125		#12	#12	20	15	16	20	#12	#12	20	RECEPTS - ROOF			0.4			
			SPARE													0.2				
			RECEPTS - 202		#12	#12	20	17	18	20	#12	#12	20	ELEVATOR LIGHTS						
			RECEPTS - 202		#12	#12	20	19	20	20	#12	#12	20	SPARE						
0.7			EF-10		#12	#12	20	21	22	20	#12	#12	20	EF-11			1.2			
			SPARE													1.2				
			EF-11		#12	#12	20	23	24	20	#12	#12	20	EF-11			1.2			
			SPARE													1.2				
1.1			EF-11		#12	#12	20	25	26	20	#12	#12	20	EF-11			1.2			
			SPARE													1.2				
			EF-11		#12	#12	20	27	28	20	#12	#12	20	EF-11			1.2			
			SPARE													1.2				
0.2			A/C CONTROL CIRCUIT		#12	#12	20	29	30	20	#12	#12	20	EF-11			1.2			
			ELEVATOR SUMP PUMP		#12	#12	20	31	32	20	#12	#12	20	EF-11			1.2			
			SPARE																	

TOTAL KVA: BUS A 13.4 BUS B 12.9 BUS C 14.1 CONNECTED KVA: 40.4 AMPERES: BUS A 111.7 BUS B 107.5 BUS C 117.5 TOTAL 112.3  
 RATED VOLTAGE: 120/208 120/240 277/480 3 PHASE, 4 WIRE BRANCH POLES 12 18 20 24 30 36 42  
 RATED AMPS: 100 225 400 150 CABINET: SURFACE FLUSH  
 FULL NEUTRAL BUS GROUND BUS HINGED DOOR KEYPAD DOOR LATCH ENCLOSURE TYPE -  
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 ACCEPTABLE MANUFACTURERS: SQUARE D, GE, ITE, WESTINGHOUSE

MAIN DISTRIBUTION PANELBOARD "MDP"									
PANEL: "MDP"		BUS: 800 AMP		VOLT: 120/208V, 3Ø, 4W					
LOCATION: ELECTRICAL RM.		MAINS: MCB		A.I.C. SYMM: 65,000					
MOUNTING: SURFACE									
NO.	POLE	BREAKER	DESCRIPTION	KVA	AMPS	REMARKS			
1	3	150A	PANEL "A"	40.4	112.3	⓪			
2	3	150A	PANEL "B"	30.6	85.0	⓪			
3	3	150A	PANEL "C"	35.3	98.1	⓪			
4	3	225A	PANEL "D"	68.6	190.6				

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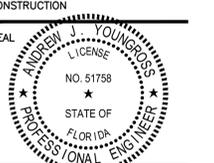


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SOWARDS  
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ARCHITECTS**  
Architects, Planners  
& Interior Designers

AA26001584  
134 N.E. 1st Avenue  
Delray Beach, Florida 33444  
TEL: 561 276-4951  
FAX: 561 243-8184  
E-mail: office@csa-architects.com

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AAC (RESUBMITTAL) 03.21.2012  
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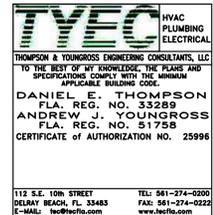
PROJECT TITLE  
**CITY OF  
POMPANO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPANO BEACH, FL 33064

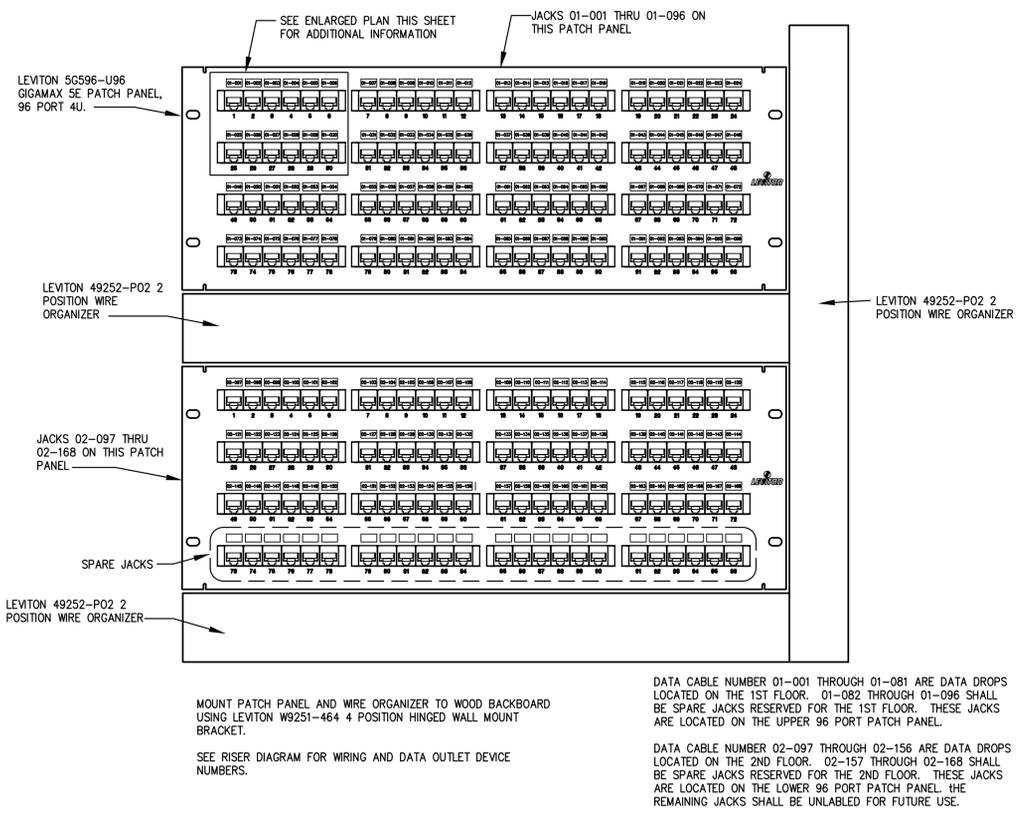
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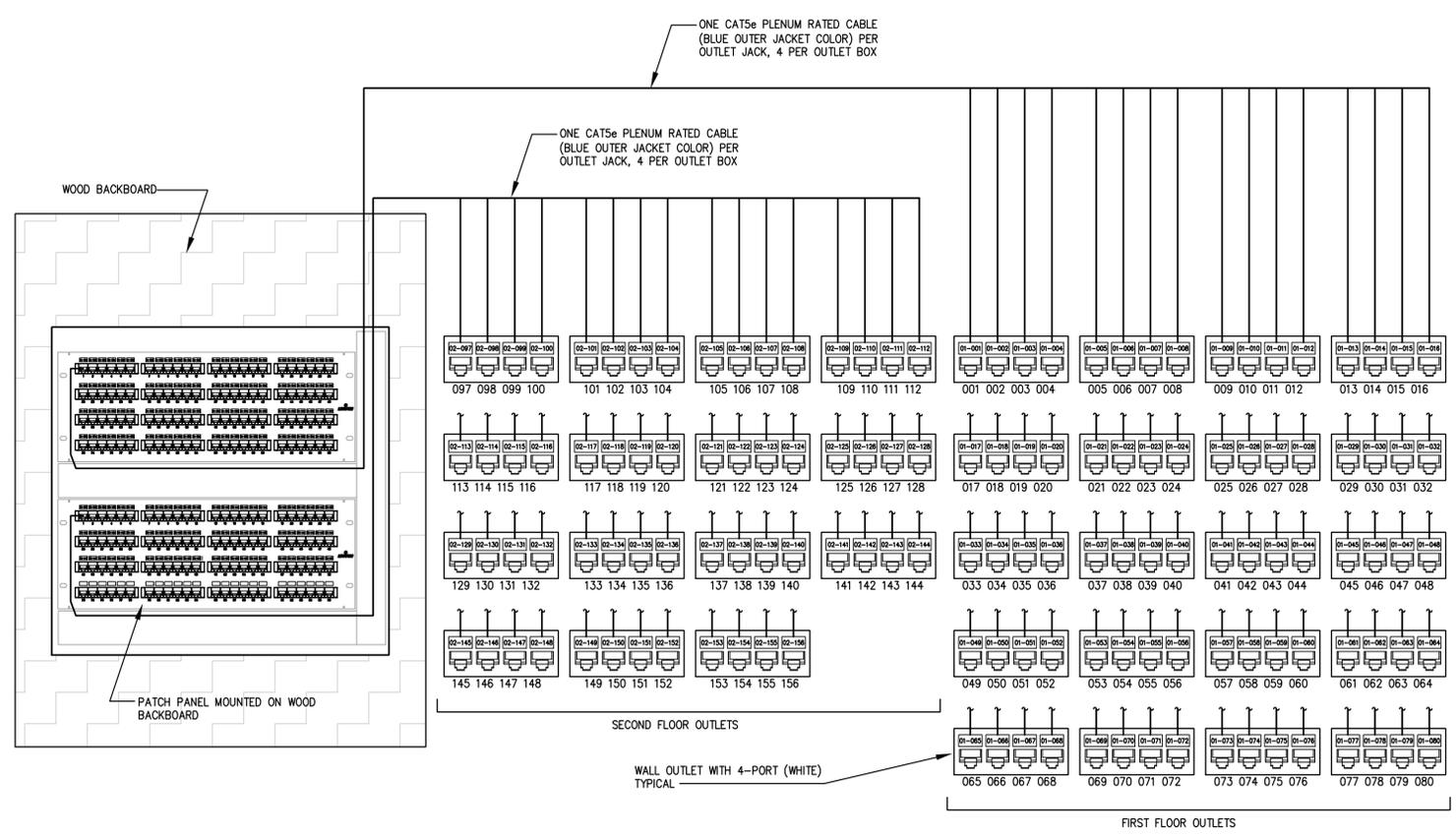
FILE NUMBER  
**11127-E-6.2.DWG**  
DRAWING TITLE  
**COMMUNICATION  
SYSTEM  
DETAILS**  
DATE  
**08.06.2012** | DRAWN BY  
**DJM**  
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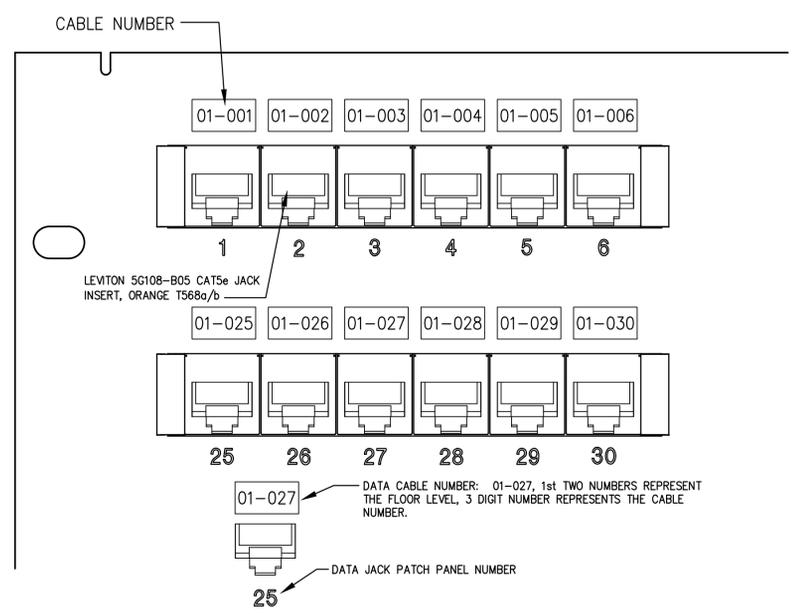
112 S.E. 10th STREET  
DELRAY BEACH, FL 33483  
TEL: 561-274-0201  
FAX: 561-274-0222  
E-MAIL: tyec@tyecfla.com



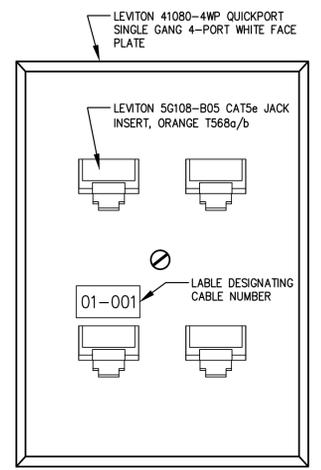
**COMMUNICATIONS PATCH PANEL LAYOUT DETAIL**  
SCALE: NTS



**COMMUNICATIONS RISER DIAGRAM**  
SCALE: NTS



**ENLARGED PATCH PANEL DETAIL**  
SCALE: NTS



**DATA OUTLET 4-JACK**  
SCALE: NTS

COMMUNICATION SYSTEM DETAILS  
N.T.S.

08.06.2012 BID-PERMIT SET

**E-6.2**

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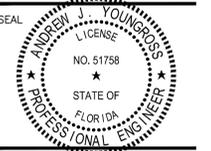
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CONSTRUCTION

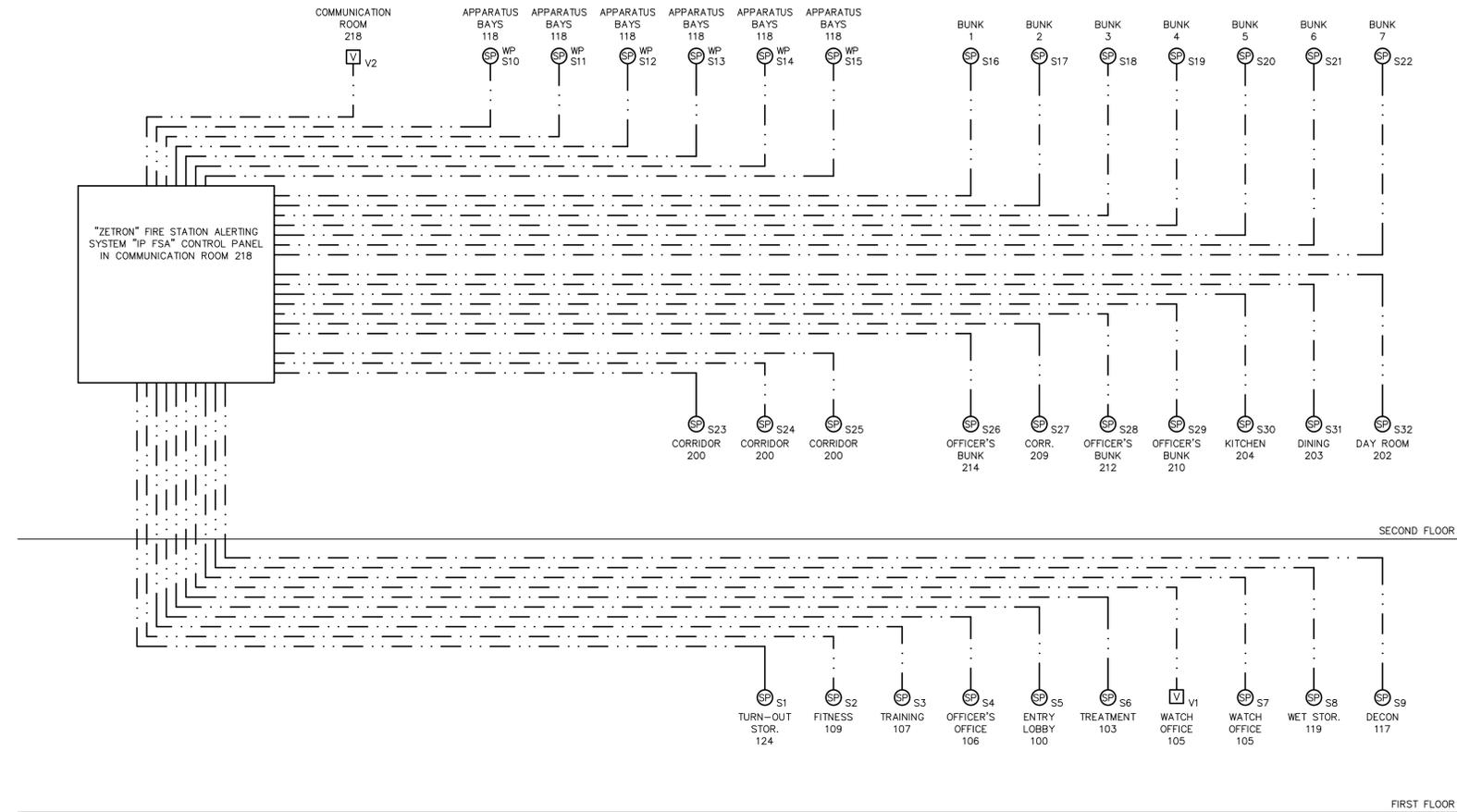


PROJECT TITLE

**CITY OF  
POMPAÑO BEACH  
FIRE STATION 103**

3721 N.E. 12th Avenue  
POMPAÑO BEACH, FL 33064

REVISIONS



**ZETRON SYSTEM RISER DIAGRAM**  
N.T.S.

**ZETRON SYSTEM RISER DIAGRAM**  
N.T.S.

**TYEC** HVAC PLUMBING ELECTRICAL  
THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
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FILE NUMBER  
**11127-E-6.3.DWG**

DRAWING TITLE  
**ZETRON SYSTEM  
RISER DIAGRAM**

DATE 08.06.2012 | DRAWN BY DJM

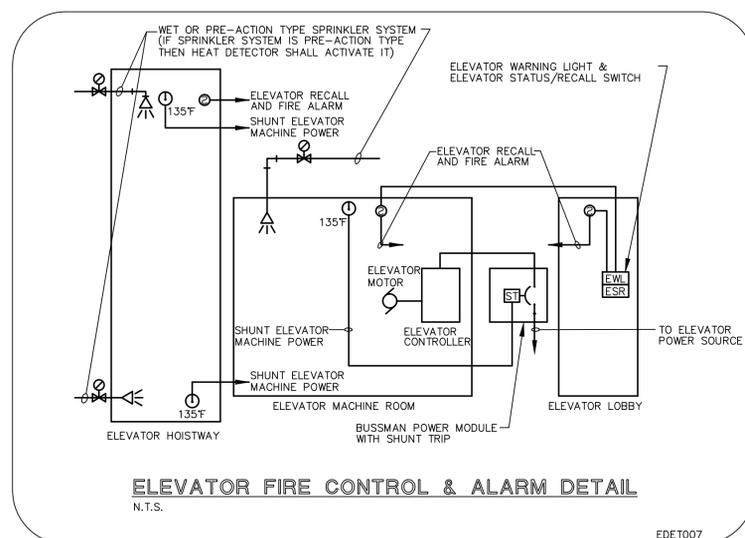
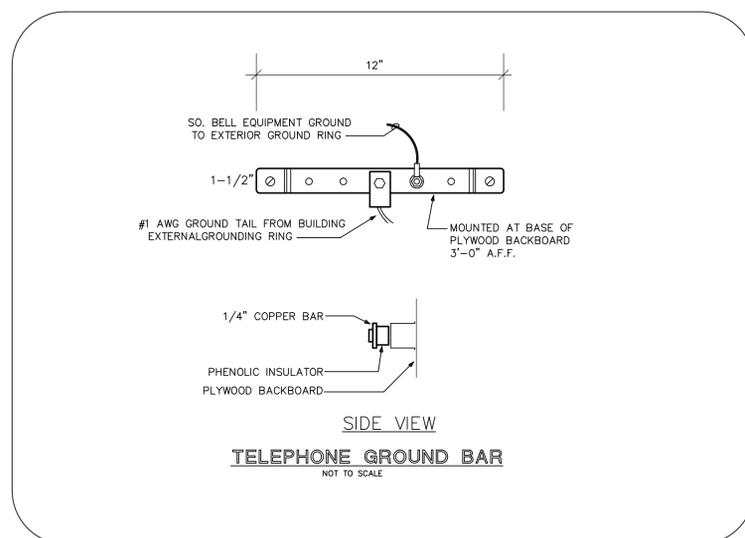
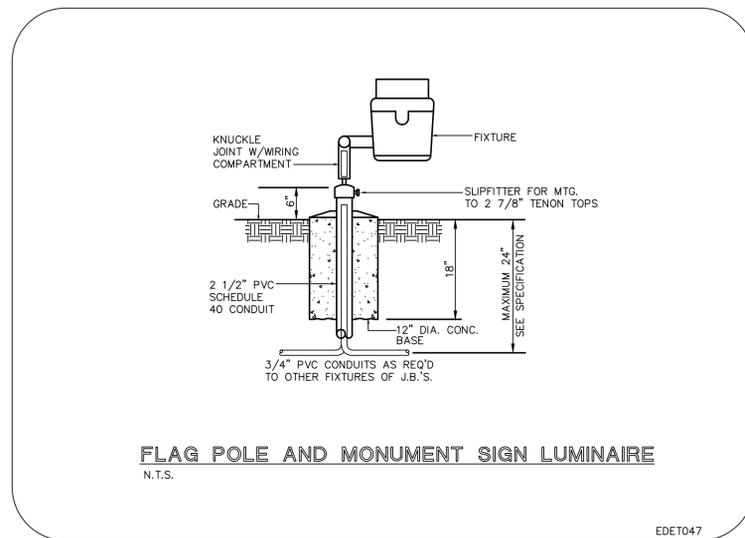
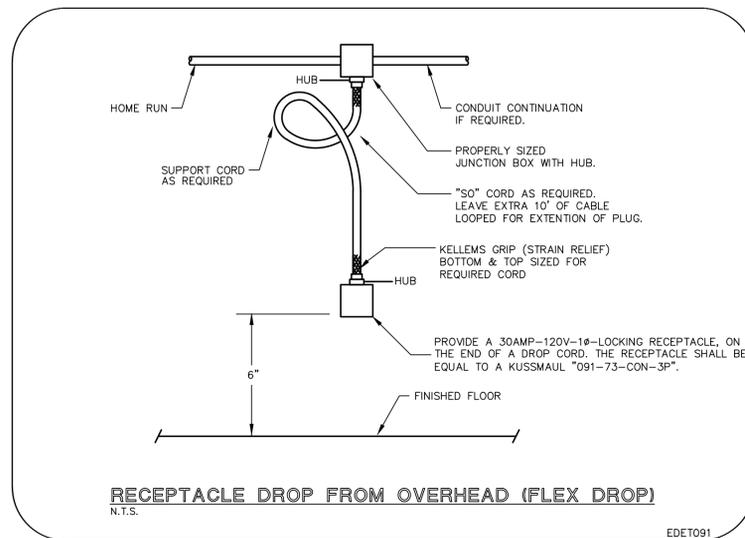
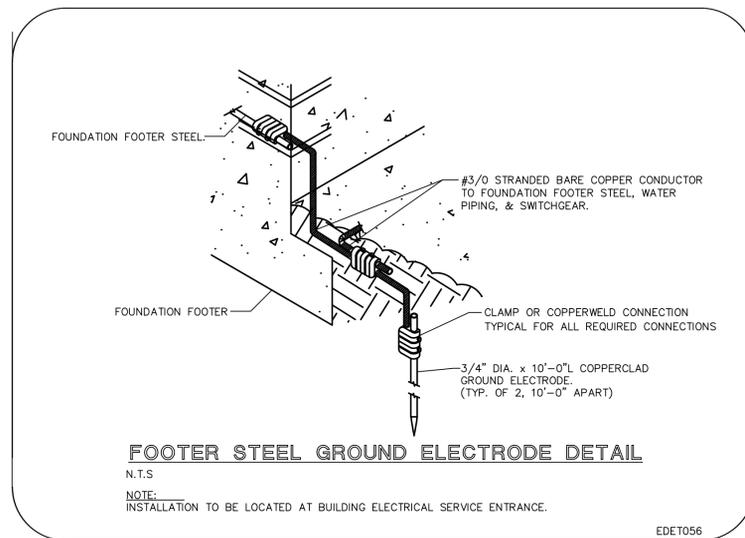
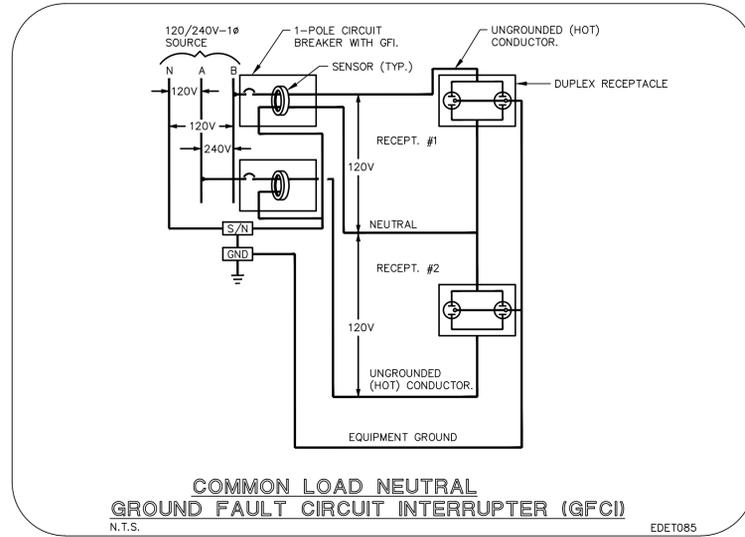
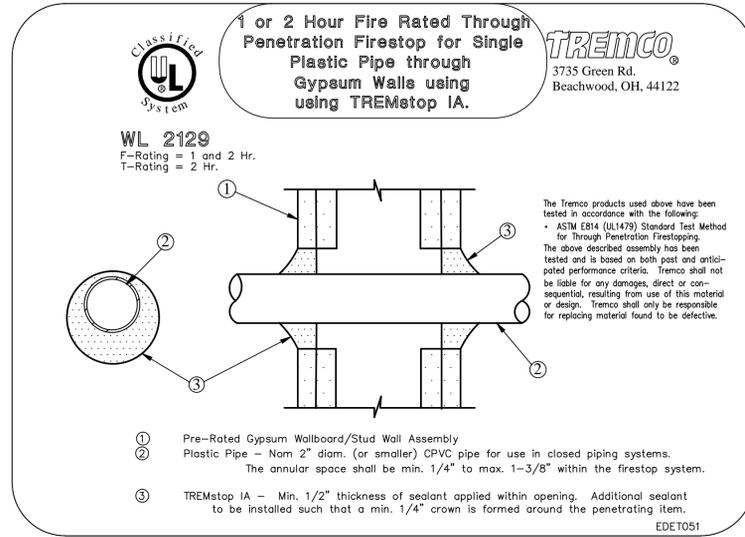
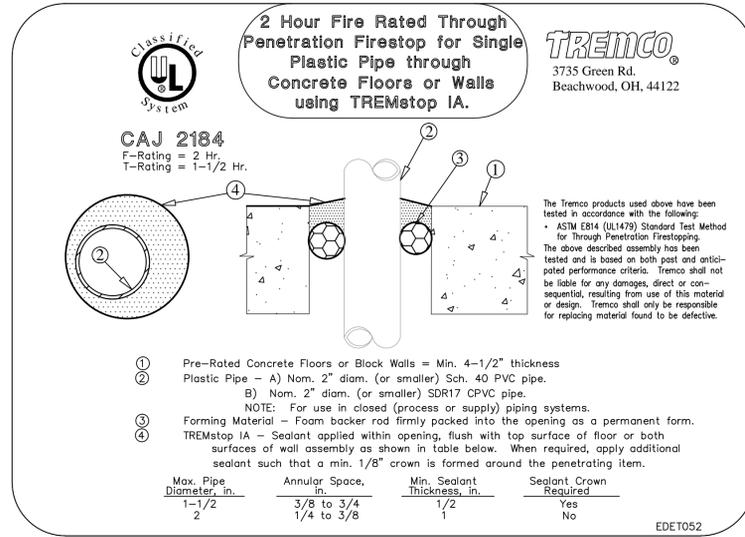
JOB NUMBER  
**110102 / 11127**

DRAWING NUMBER

**E-6.3**

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**ELECTRICAL DETAILS**  
N.T.S.

**TYEC** HVAC PLUMBING ELECTRICAL  
 THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
 TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.  
 DANIEL E. THOMPSON  
 FLA. REG. NO. 33289  
 ANDREW J. YOUNGROSS  
 FLA. REG. NO. 51758  
 CERTIFICATE OF AUTHORIZATION NO. 25996

**CURRIE SOWARDS AGUILA ARCHITECTS**  
 Architects, Planners & Interior Designers

AA26001584  
 134 N.E. 1st Avenue  
 Delray Beach, Florida 33444  
 TEL: 561 276-4951  
 FAX: 561 243-8184  
 E-mail: office@csa-architects.com

ISSUED FOR : DRC 11.29.2011  
 AAC (RESUBMITTAL) 01.18.2012  
 P&Z 03.21.2012  
 BIDS 08.06.2012

PERMIT 08.06.2012

CONSTRUCTION SEAL  
 ANDREW J. YOUNGROSS  
 LICENSE NO. 51758  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

PROJECT TITLE  
**CITY OF POMPANO BEACH FIRE STATION 103**

3721 N.E. 12th Avenue  
 POMPANO BEACH, FL 33064

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**11127-E-7.1.DWG**

DRAWING TITLE  
**ELECTRICAL DETAILS**

DATE  
 08.06.2012

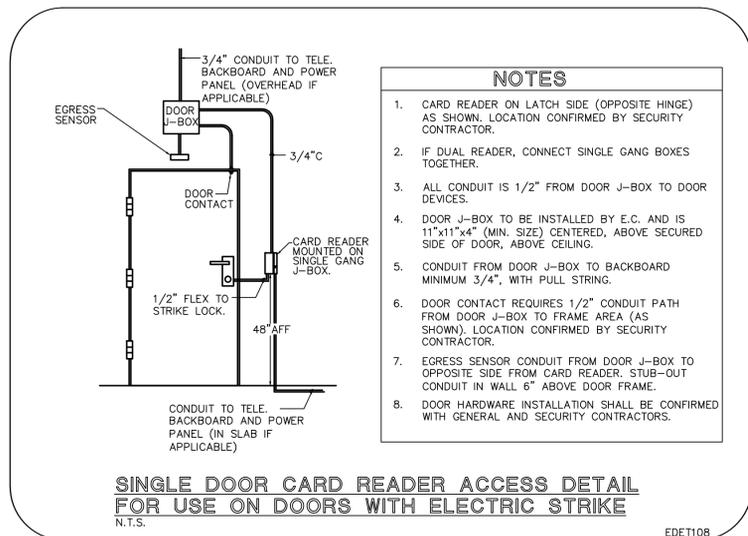
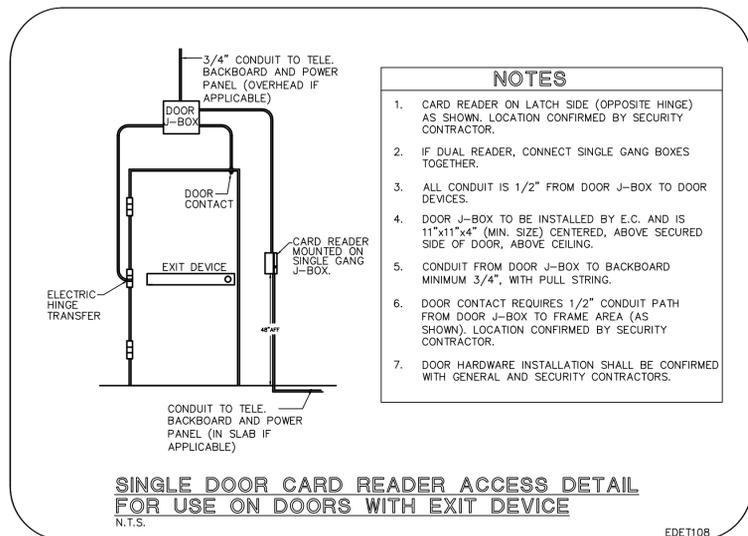
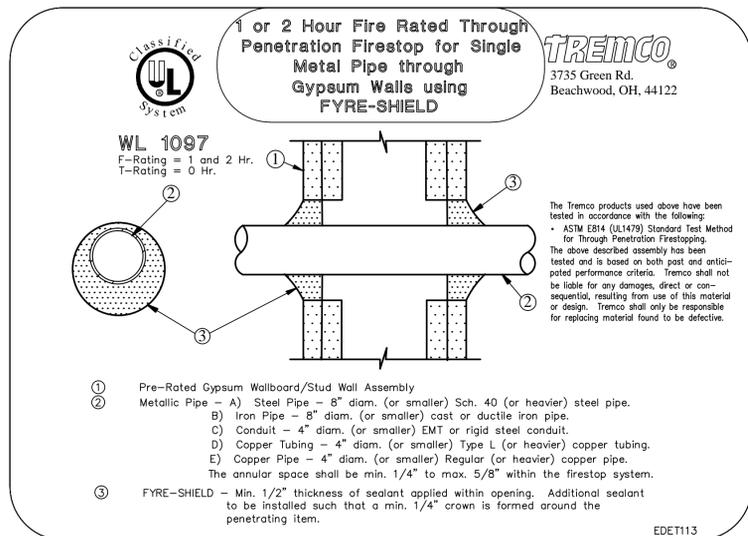
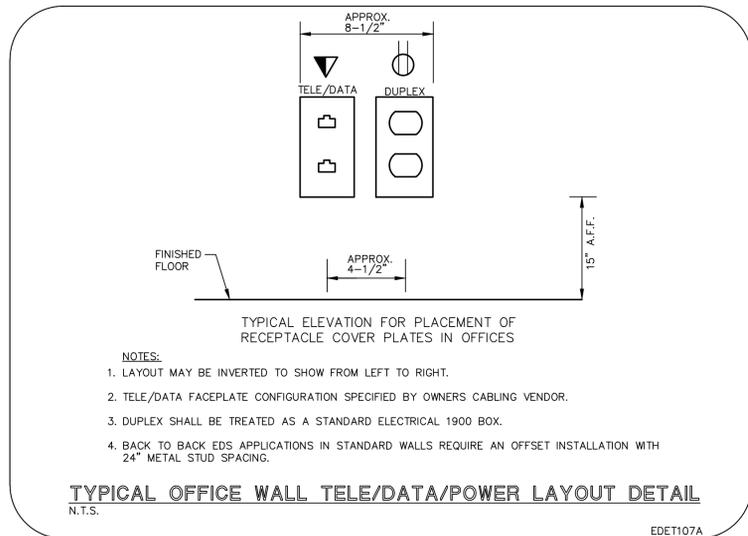
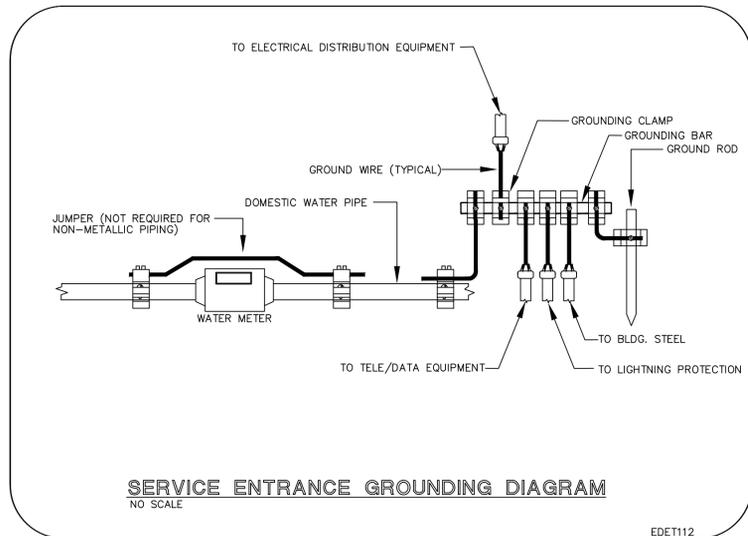
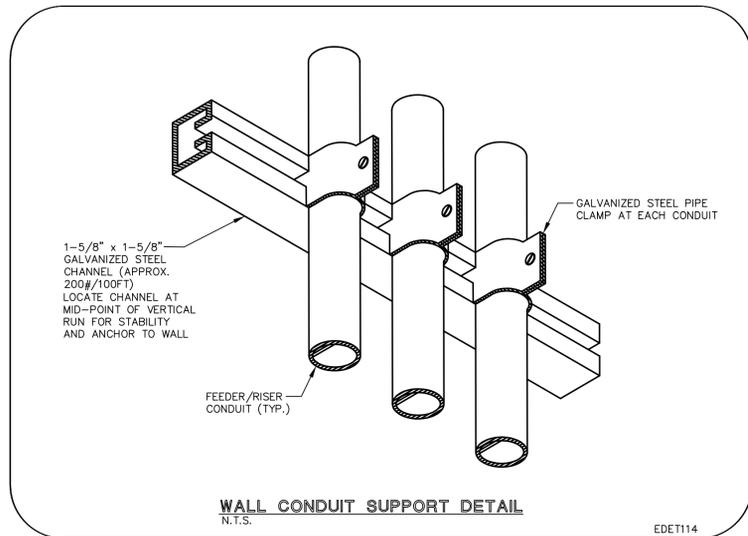
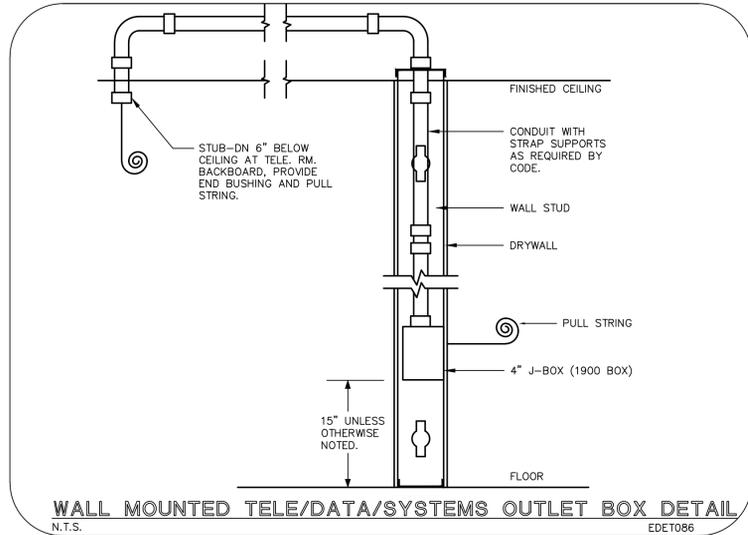
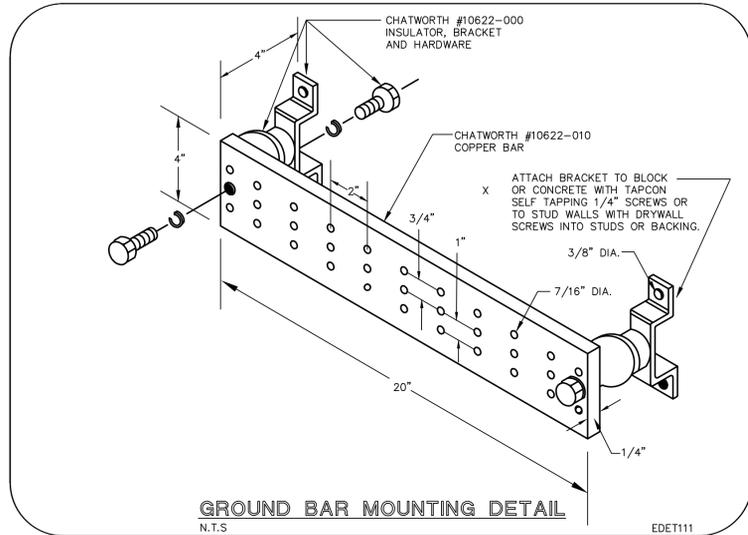
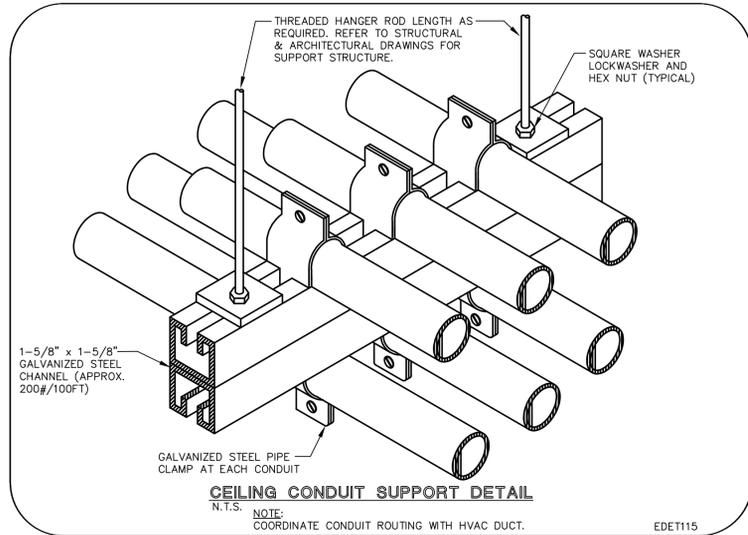
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 DJM

JOB NUMBER  
 110102 / 11127

DRAWING NUMBER

**E-7.1**

08.06.2012 BID-PERMIT SET



**ELECTRICAL DETAILS**  
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THOMPSON & YOUNGROSS ENGINEERING CONSULTANTS, LLC  
TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODE.

DANIEL E. THOMPSON  
FLA. REG. NO. 33289

ANDREW J. YOUNGROSS  
FLA. REG. NO. 51758  
CERTIFICATE OF AUTHORIZATION NO. 25996

113 S.E. 10th STREET  
DELRAY BEACH, FL. 33483  
TEL: 561-274-8300  
FAX: 561-274-0222  
E-MAIL: teo@tyec.com

**CURRIE SOWARDS AGUILA ARCHITECTS**  
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PERMIT 08.06.2012

CONSTRUCTION

SEAL

ANDREW J. YOUNGROSS  
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PROFESSIONAL ENGINEER

PROJECT TITLE  
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REVISIONS

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FILE NUMBER  
**11127-E-7.2.DWG**

DRAWING TITLE  
**ELECTRICAL DETAILS**

DATE  
08.06.2012

DRAWN BY  
DJM

JOB NUMBER  
110102 / 11127

DRAWING NUMBER

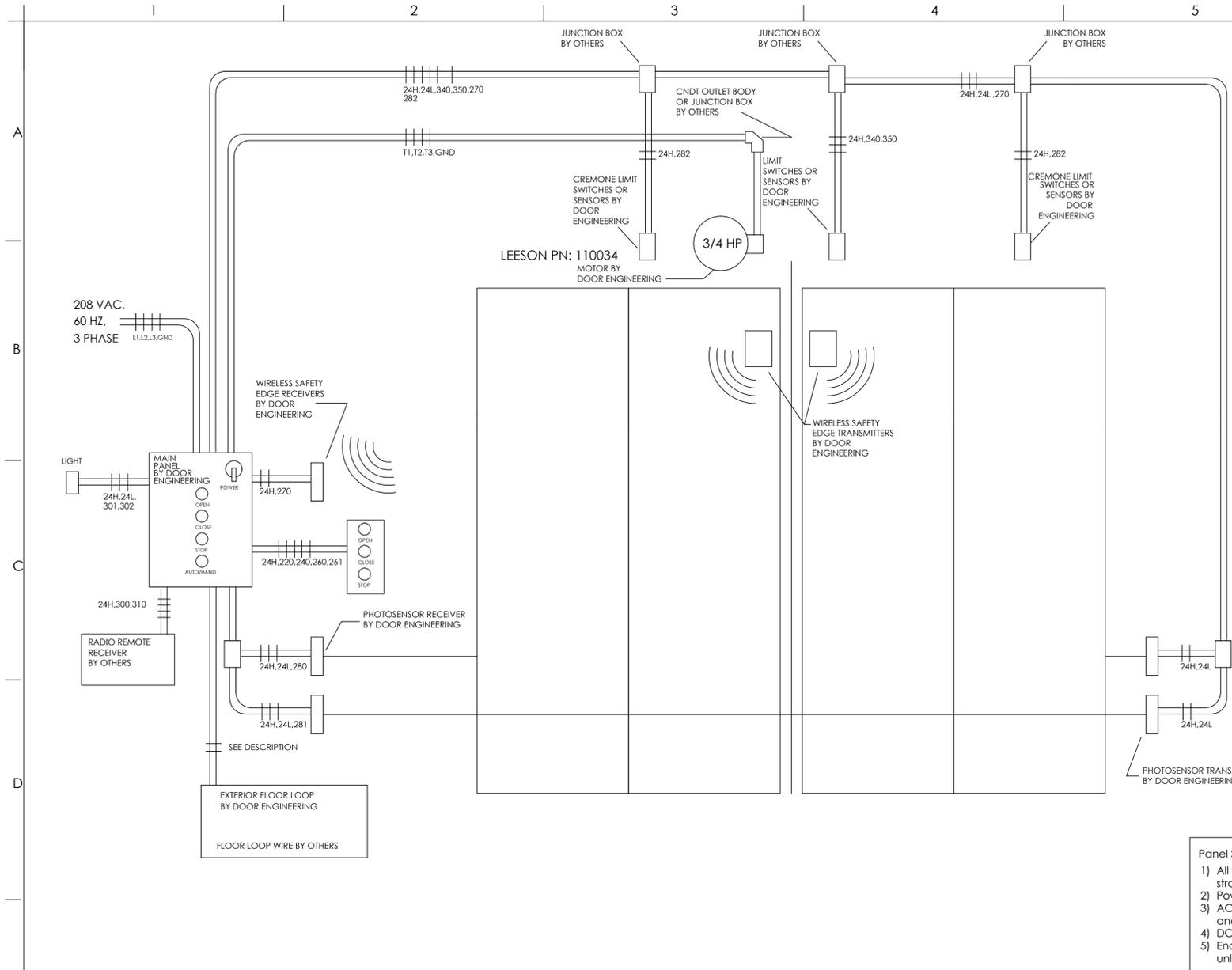
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**Panel Specifications**

- 1) All wiring to be 600 volt rated, stranded, copper, type MTW.
- 2) Power wiring to be black, 14 ga.
- 3) AC control wiring to be red (hot) and white (neut) 16 ga.
- 4) DC control wiring to be blue, 16 ga.
- 5) Enclosure shall have NEMA 4 rating unless otherwise specified.

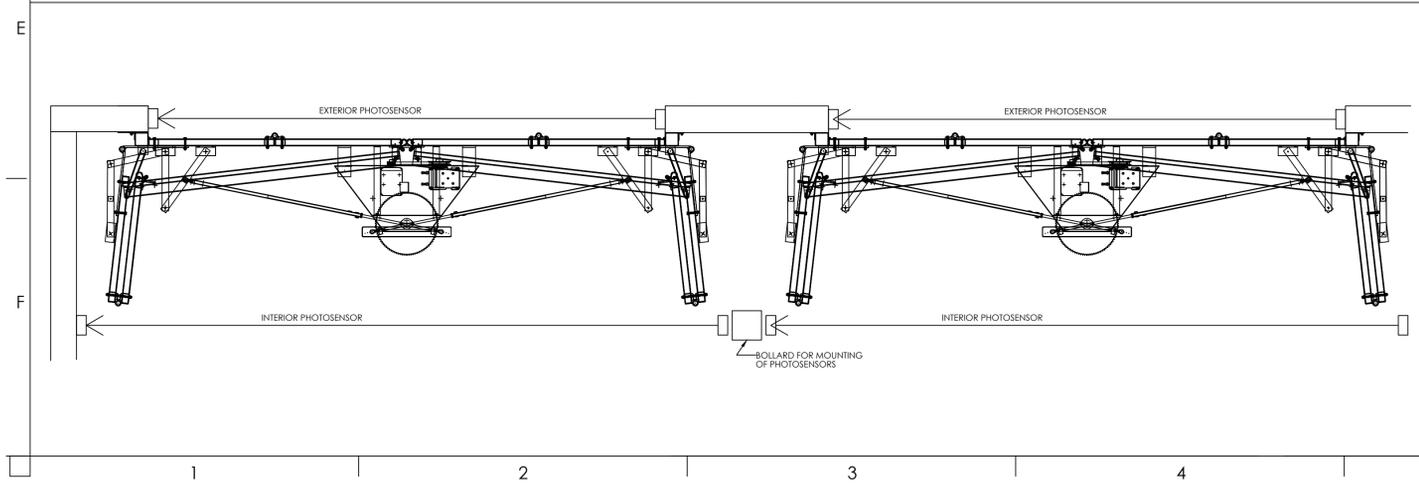
**Field Wiring**

- 1) Fused disconnect to be provided by others. Fuses to be of time delay type with maximum rating as indicated.
- 2) All field wiring to be a minimum 14 ga. 60 C. copper, stranded & 600 volt rated.
- 3) Terminal blocks to be tightened to max.: 4.4 in-lbs for small, 7.1 in-lbs for large
- 4) Motor, 24vac control, and 12vdc wiring should all be in separate conduit runs.
- 5) All conduit hubs must have NEMA 4 rating.

CUSTOMER APPROVAL AS INDICATED BELOW IS REQUIRED FOR ALL DRAWINGS IN ORDER TO PROCEED WITH BUILD

APPROVED: \_\_\_\_\_ SIGNATURE / DATE

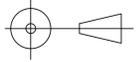
REVISE AS NOTED AND RE-SUBMIT: \_\_\_\_\_ SIGNATURE / DATE

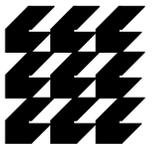


- Equipment Provided by Door Engineering:**
- 1) **Control Panel, 1 per door**
    - "Open," "Close," "Stop," "Auto/Hand" pushbuttons on face
    - 19.75 x 15.75 x 6, NEMA 4 rated
    - Power disconnect
    - "Auto/Hand" switch for activating & deactivating the "open" loop detector function
  - 2) **Remote Pushbutton Station, "Surface Mount," 1 per door**
    - "Open," "Close," and "Stop" pushbuttons
    - 5.75 x 2.75 x 2.5, NEMA 4 rated, raised pushbuttons
    - Model: 3BXT
  - 3) **Electric Safety Edge**
    - 2 wireless transmitters
    - 1 receiver
    - Safety Edge will not open a closed door
    - Safety edge will stop a closing door upon activation and return to open position
    - Model: Miller Edge MW102 or MW1A02
  - 4) **Safety Photosensors, 2 per door**
    - Must be wired to use Normally Closed (N.C.) contacts
    - Thru-beam (transmitter/receiver type)
    - Activation stops a closing door and returns door to "open" position
    - Model: IRB-4X
  - 5) n/a
  - 6) **Cremona Bolt, Open/Closed**
    - Must be wired to use Normally Closed (N.C.) contacts
    - Door will not open when Cremona is in closed position
  - 7) **Auxiliary Light Contact, 1 per door**
    - N.O. Dry Contact

- Equipment Provided by Others (Vendor, Installer, End User, etc.)**
- 1) Radio Remote Control Transmitters and Receivers - 1 per door
  - 2) Interface with Traffic Light Relay

DRAWINGS ARE THE EXCLUSIVE PROPERTY OF DOOR ENGINEERING AND MANUFACTURING, LLC AND CANNOT BE USED IN WHOLE OR PART WITHOUT WRITTEN CONSENT.

MATERIAL			
THICKNESS			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES		DO NOT SCALE DRAWING THIRD ANGLE PROJECTION	
TOLERANCES:			
ANGULAR: ± 2°			
X.X = ± .1 (1/8") X.XX = ± .03 (1/32") X.XXX = ± .015 (1/64")			
DRAWN BY: MDT		DATE: 10/28/09	
CHECKED BY:		TITLE: FOUR-FOLD DOOR RISER	
ENG'D BY:		SCALE: NTS MASS:	
SIZE DWG. NO. B 09116F-E1		REV A	
SHEET 1 OF 1			



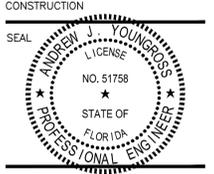
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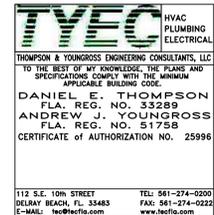
DRAWING TITLE  
**ELECTRICAL DETAILS**

DATE  
**08.06.2012**

DRAWN BY  
**DJM**

JOB NUMBER  
**110102 / 11127**

DRAWING NUMBER



**ELECTRICAL DETAILS**  
N.T.S.

**E-7.4**

08.06.2012 BID-PERMIT SET