

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA
PUBLIC SAFETY BUILDING
EMERGENCY GENERATOR SERVICES
180 SW 3RD STREET, POMPANO BEACH, FL.

CIP # 09-972
Bid Set Dec 2011



CITY OFFICIALS

MAYOR
LAMAR FISHER

VICE MAYOR
COMMISSIONER, DISTRICT 5
GEORGE BRUMMER

COMMISSIONER, DISTRICT 1
BARRY DOCKSWELL

COMMISSIONER, DISTRICT 2
CHARLOTTE BURRIE

COMMISSIONER, DISTRICT 3
REX HARDIN

COMMISSIONER, DISTRICT 4
WOODROW J. POITIER

CITY MANAGER
DENNIS BEACH

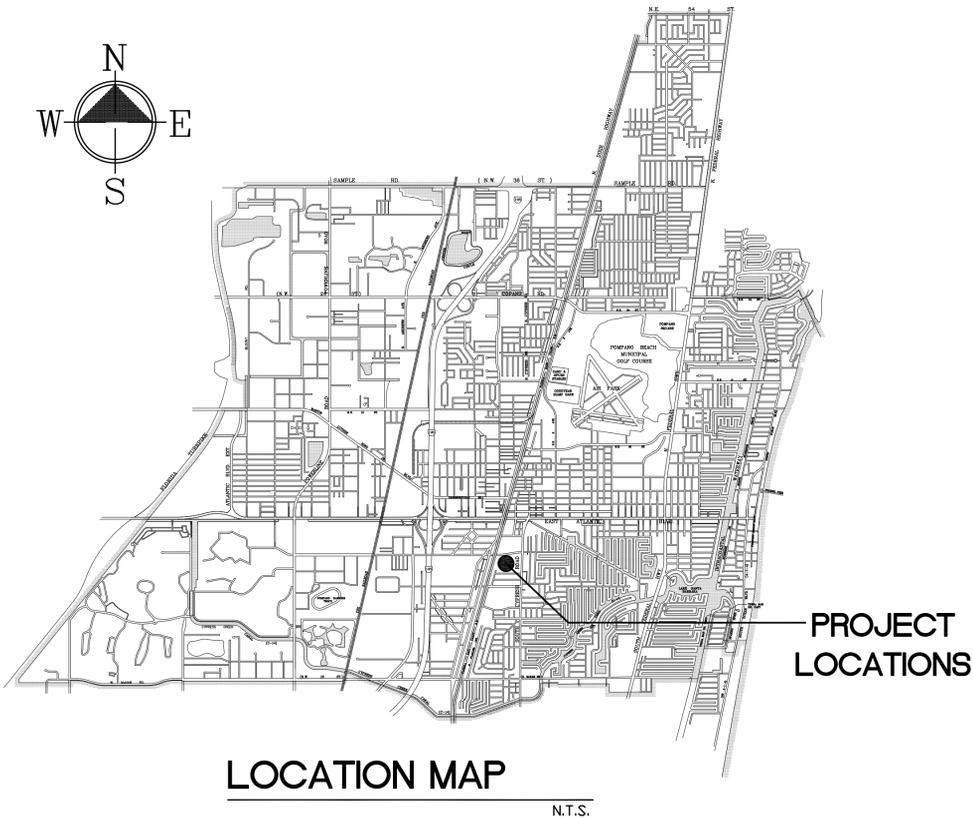
CITY ENGINEER
ALESSANDRA DELFICO, P.E.

PROJECT MANAGER
TAMMY L. GOOD, PMP

CONSTRUCTION MANAGER
CHRIS SCHLAGETER, CGC

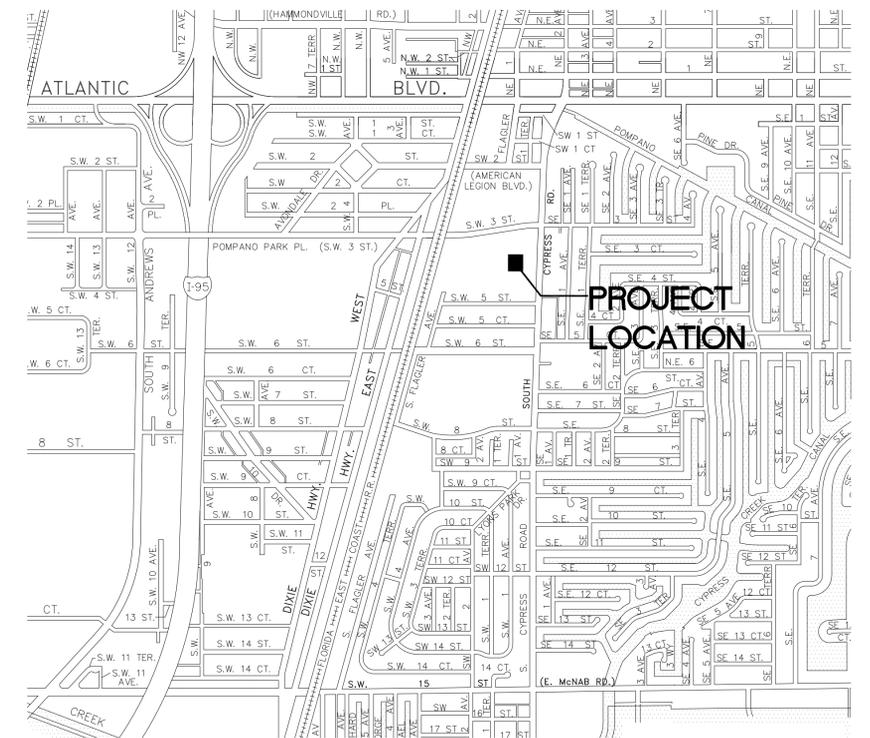
PREPARED BY:
BERMELLO AJAMIL and PARTNERS, INC.

2012



LOCATION MAP

N.T.S.



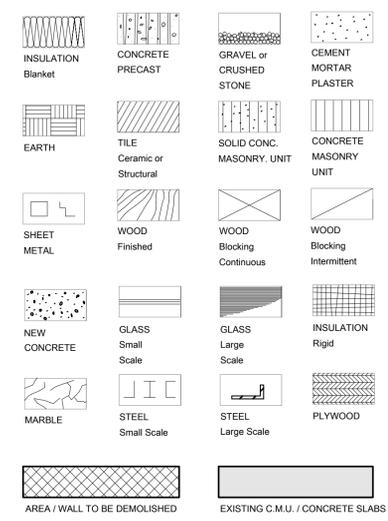
VICINITY MAP

N.T.S.

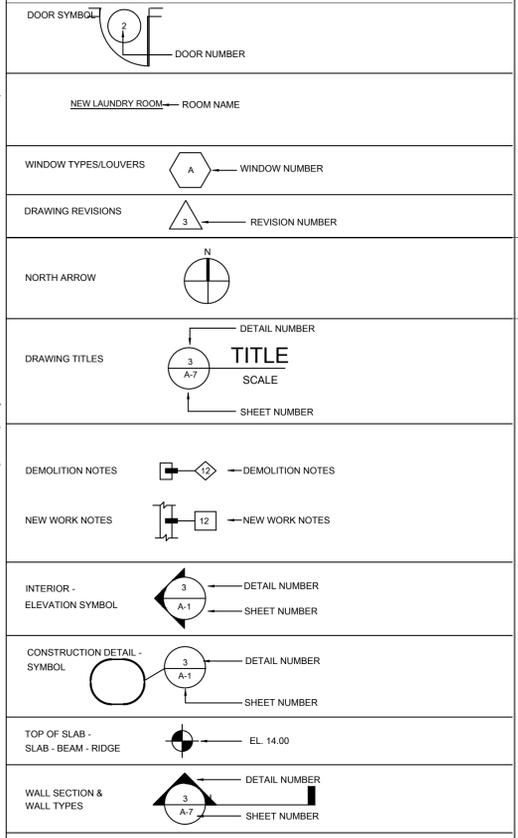
ABBREVIATIONS

A	AC ADJ AFF AGG A.C. ALUM	ACOUSTICAL ADJUSTABLE ABOVE FINISH FLOOR AGGREGATE AIR CONDITIONING ALUMINUM	L	LAV LAM LT LWTF LF	LAVATORY LAMINATED LIGHT LIGHT WEIGHT LINEAR FEET
B	BM BLK BLKG BOT BLDG BLKHD	BEAM BLOCK BLOCKING BOTTOM BUILDING BULKHEAD	M	MAT ML MAX MECH MFL MIN MISC MACH MANUF	MATERIAL MATCH LINE MAXIMUM MECHANICAL METAL MINIMUM MISCELLANEOUS MACHINE MANUFACTURER
C	CAB CARP CLG CEM CL CER C.T. CO CU/CLOS COL CONC CONJ CONST CONT COR CU	CABINET CARPET CEILING CEMENT CENTER LINE CERAMIC CERAMIC TILE CLEAN OUT CLOSET COLUMN CONCRETE CONCRETE MASONRY UNIT CONSTRUCTION CONTINUOUS CORNER GUARD CUBIC	N	NOM NIC NTS	NOMINAL NOT IN CONTRACT NOT TO SCALE
D	DEPT DIA DIM DN DS DWG DF	DEPARTMENT DIAMETER DIMENSION DOWN DOWN SPOUT DRAWING DRINKING FOUNTAIN	O	OPF OD OC OH	OFFICE OPENING OUTSIDE DIAMETER ON CENTER OPPOSITE HAND
E	EA EL ELEV EQ EQUIP EXIST EXP.IT EXP EXT ELEC	EXPOSED AGGREGATE EACH ELEVATION (GRADE) ELEVATION (FACADE) ELEVATOR EQUAL EQUIPMENT EXISTING EXPANSION JOINT EXPOSED EXTERIOR ELECTRICAL	P	PR PASS PC PC PLAS POL PMLD PNL	PAIR PASSENGER PENTHOUSE PRECAST PANEL JOINT PLASTER POLISHED PRE-REMOLDED PANEL
F	FT FIN FE FEC FHC FL FLUR FS FV FVC	FEET FINISH FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE HOSE CABINET FLOOR FLOOR DRAIN FLUORESCENT FULL SIZE FIELD VERIFY FIRE VALVE CABINET	Q	QT QTM	QUARRY TILE QUARRY TILE MINIATURES
G	GALV GA GC GL GR GYP GYP BD	GALVANIZED GAUGE GENERAL CONTRACTOR GLASS GRADE GYPSUM GYPSUM WALLBOARD	R	RAD R REINF REQD RF RD RM RO REFL	RADIUS RISER REINFORCED REQUIRED ROOF ROOF DRAIN ROOM ROUGH OPENING REFLECTED
H	HRDW HT HM HORIZ	HARDWARE HEIGHT HOLLOW METAL HORIZONTAL	S	SECT SHT SHT MET SIM SQ STD SS	SECTION SHEET SHEET METAL SIMILAR SQUARE STANDARD STAINLESS STEEL
I	IN INCAND ID INSUL INT INV	INCH INCANDESCENT INSIDE DIAMETER INSULATION INTERIOR INVERT	T	TEL TEMP T TYP TR THK	TELEPHONE TEMPERED TOILET TREADS TYPICAL TELEPHONE RECEPTACLE THICK
J	JT JST JC	JOINT JOIST JANITORS CLOSET	V	VERT VT VB VWC	VERTICAL VINYL TILE VAPOR BARRIER VINYL - WALL COVERING
			W	WVC-GYP WVC-PLAS WC WP WO W/ W/O WC	WALL COVERING - GYPSUM BOARD WALL COVERING - PLASTER WET COLUMN WATERPROOFING WOOD WITH WITHOUT WATER COOLER
			Y	YD	YARD

ARCHITECTURAL SYMBOLS



REFERENCE SYMBOLS



GENERAL NOTES

- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE APPLICABLE EDITION OF THE FLORIDA BUILDING CODE, CITY LABOR LAWS, CITY ORDINANCES, CITY/COUNTY ZONING CODES, RULES AND REGULATIONS, AND ANY APPLICABLE CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS TO CARRY OUT THE WORK DESCRIBED IN THE DEMO DOCUMENTS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS. ANY DISCREPANCIES WITH THE DRAWINGS, DIMENSIONS OR OTHER INFORMATION SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO FABRICATION AND DEMO.
- PRIOR TO SUBMITTING BID, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO FAMILIARIZE THEMSELVES WITH ALL THE EXISTING CONDITIONS AT THE SITE RELATIVE TO SCOPE OF WORK RELATING TO THIS PROJECT. MATERIALS HANDLING, STORAGE AND DELIVERY, WORKING SPACE AVAILABLE, SAFETY PRECAUTIONS REQUIRED, AND ALL OTHER CONDITIONS NECESSARY TO THE MAKING OF AN ACCURATE AND COMPLETE PROJECT BID. NO INCREASE IN PROJECT COST WILL BE ALLOWED FOR FAILURE OF THE CONTRACTOR TO KNOW EXISTING SITE CONDITIONS.
- THE GENERAL CONTRACTOR GUARANTEES AND WARRANTS THAT ALL WORK PERFORMED SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE ISSUANCE OF THE CERTIFICATE OF FINAL COMPLETION. ANY DEFECTS OR DAMAGE DISCOVERED DURING SAID PERIOD SHALL BE REPAIRED OR REPLACED BY THE GENERAL CONTRACTOR AS DIRECTED IN WRITING BY THE ARCHITECT WITH NO COST TO THE OWNER OR ARCHITECT.
- DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. ANY DIMENSIONS NOT INDICATED ON DRAWINGS SHALL BE CONFIRMED WITH ARCHITECT PRIOR TO REPAIR.
- NO WORK SHALL BE PERFORMED OUTSIDE THE PROJECT LIMITS WITHOUT PRIOR WRITTEN APPROVAL FROM THE BUILDING OWNER AND / OR ARCHITECT.
- CONTRACTOR SHALL REMOVE ALL DEBRIS AT THE END OF EACH WORKDAY. CONTRACTOR WILL FURNISH OWN DUMPSTER FOR TRASH AND DEBRIS STORAGE UNTIL HE CAN REMOVE SUCH FROM PREMISES. AREAS SHALL BE CLEANED UP AND PROTECTED AT ALL TIMES.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES REQUIRED FOR COMPLETION OF WORK.
- UPON COMPLETION OF PROJECT, CONTRACTOR SHALL PROVIDE TWO (2) SETS OF AS-BUILT DRAWINGS TO THE ARCHITECT FOR FINAL REVIEW AND SUBMITTAL TO OWNER. ARCHITECT IS NOT RESPONSIBLE FOR AS BUILT DRAWINGS.
- MATERIALS SHALL BE NEW, OF QUALITY SPECIFIED, DELIVERED IN A TIMELY FASHION AND AMPLIFIED QUANTITY TO PREVENT DELAY OF WORK. SUBSTITUTIONS REQUIRE PRIOR APPROVAL FROM THE ARCHITECT/OWNER.
- INSURANCE: THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL HAVE WORKMAN COMPENSATION AS REQUIRED BY LAW AS PER AGREEMENT AND SUFFICIENT PROTECTION FOR CLAIMS FOR PERSONAL INJURY, INCLUDING DEATH.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SECURE THE PREMISES THROUGHOUT THE DURATION OF THE PROJECT. THE GENERAL CONTRACTOR SHALL TAKE THE APPROPRIATE AND NECESSARY MEASURES TO PREVENT THE GENERAL PUBLIC FROM ACCESSING THE SITE AT ANY TIME.
- G.C. SHALL PROVIDE A SAFE WORKING ENVIRONMENT AS WELL AS REQUIRED MEANS OF EGRESS FOR ALL PERSONNEL ON THE PROJECT SITE AS REQUIRED BY ALL APPLICABLE CODES. CONTRACTOR MUST ALSO COMPLY WITH LIFE SAFETY MEASURES FOR ANY PUBLIC OCCUPANCY IN DESIGNATED AREAS DURING DEMO AS REQUIRED BY CITY OF POMPAHO BEACH FIRE DEPARTMENT.
- THERE ARE NO SUBSTITUTIONS ALLOWED UNLESS APPROVED BY THE ARCHITECT/ENGINEER. THE G.C. SHALL SUBMIT IN WRITING ALL REQUESTS FOR SUBSTITUTIONS.
- THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO VERIFY CONDITIONS, DIMENSIONS, ETC. THE G.C. SHALL ALLOW A MAXIMUM OF 14 DAYS TURN ARROUND TIME FOR THE ARCHITECT TO PROCESS SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL SUBMIT ONE REPRODUCIBLE AND A MINIMUM OF SEVEN PRINTS OR SEVEN COPIES IF SUBMISSIONS ARE 8-1/2" X 11". G.C. SHALL REVIEW ALL SUBMISSIONS PRIOR TO SUBMITTING TO THE ARCHITECT AND CONSULTING ENGINEERS FOR THEIR APPROVAL.
- THE GENERAL CONTRACTOR SHALL PROVIDE 10% ADDED STOCK OF ALL FINISH ITEMS (WALL COVERINGS, FABRICS, CARPETS, LIGHT BULBS, FLOOR TILE, ETC.), UNLESS NOTED OTHERWISE.
- THE GENERAL CONTRACTOR SHALL INSTALL ALL MATERIALS ACCORDING TO MANUFACTURER'S RECOMMENDED SPECIFICATIONS. THE G.C. SHALL SUBMIT IN WRITING TO THE ARCHITECT IF, BECAUSE OF UNFORESEEN CONDITIONS, ANY MATERIAL CANNOT BE INSTALLED ACCORDING TO SPECIFICATIONS PRIOR TO INSTALLATION.
- THE GENERAL CONTRACTOR SHALL ASSEMBLE ALL REQUIRED GUARANTEES, WARRANTIES AND MAINTENANCE CONTRACTS EXECUTED BY EACH OF THE RESPECTIVE MANUFACTURERS, SUPPLIERS AND SUBCONTRACTORS. THE G.C. SHALL SUBMIT THE ABOVE INFORMATION TO THE ARCHITECT AND CONSULTING ENGINEER.
- IF THERE IS A DISCREPANCY BETWEEN THE OWNER/ CONTRACTOR AGREEMENT, THE DRAWINGS OR SPECIFICATIONS, THEN OWNER/ CONTRACTOR AGREEMENT SHALL GOVERN, BUT SAID CONFLICT TO BE BROUGHT TO ARCHITECTS ATTENTION.
- IF THERE IS ANY DISCREPANCY BETWEEN THE DRAWINGS OR SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
- ALL PLAN DETAILS AND WALL SECTIONS ARE ASSUMED TO BE TYPICAL CONDITIONS UNLESS DETAILED OR NOTED OTHERWISE.
- WE HEREBY ATTEST THAT, TO THE BEST OF OUR KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE ARCHITECTURAL DESIGN OF THIS PROJECT IS IN COMPLIANCE WITH THE APPLICABLE FLORIDA BUILDING CODE. THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 109.3.6 (THRESHOLD BUILDING) AND 633 FLORIDA STATUTES (FIRE PREVENTION AND CONTROL), TO THE BEST OF OUR KNOWLEDGE.
- CONTRACTOR SHALL PROTECT ALL INTERIOR & EXTERIOR PORTIONS OF THE BUILDING FROM THE ELEMENTS.
- CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS WORKING IN THE BUILDING AND ON-SITE.
- CONTRACTOR SHALL COORDINATE WITH THE CITY AND THE PROJECT SCHEDULE TO EXECUTE AND COMPLETE THE JOB IN COORDINATION WITH THE ON-GOING HOURS AND OPERATIONS OF THE FACILITY.
- PROVIDE FIRE RESISTANT MATERIALS AND FIRE SEAL AS REQUIRED AT ALL OPENINGS, JOINTS, PENETRATIONS, OR GAPS ON FIRE RATED ASSEMBLIES.
- ALL HOLLOW METAL DOOR FRAMES ON BLOCK WALL ARE TO BE GROUT FILLED.
- PROVIDE "TYPE X" DRYWALL AT ALL REQUIRED RATED WALLS AND CEILING ASSEMBLIES.
- PROVIDE ALL NECESSARY P.T. WOOD BLOCKING AT ALL REQUIRED LOCATIONS FOR ERECTION OF EQUIPMENT, SYSTEMS AND ACCESSORIES. IN CONTACT WITH CONCRETE SURFACES. PROVIDE MOISTURE RESISTANT GYPSUM BOARD ON ALL WET WALL APPLICATIONS (TYPICAL).

GENERAL SCOPE OF WORK

- CONSTRUCT A NEW ONE STORY ENCLOSURE TO ACCOMMODATE A NEW EMERGENCY GENERATOR FOR THE EXISTING PUBLIC SAFETY CAMPUS. NEW ENCLOSURE BUILDING SHALL INCLUDE:
 - REINFORCED CMU BLOCK WALL CONSTRUCTION (3 SIDES TO THE INTO EXISTING EAST WALL)
 - REINFORCED CONCRETE SLAB WITH CONTINUOUS CURBING AND HOUSEKEEPING PAD
 - STANDING SEAM METAL ROOF OVER METAL DECK AND BAR JOISTS
 - (2) TWO DCPA LOUVERS (NORTH AND SOUTH SIDES)
 - (1) DCPA HOLLOW METAL LOUVERED DOUBLE DOOR (WEST SIDE)
 - EXTERIOR SHALL BE PAINTED STUCCO, COLOR, TEXTURE AND BANDING TO MATCH EXISTING.
- REMOVE ONE EXISTING SHADE TREE DUO TO THE LOCATION OF THE NEW BUILDING.
- REMOVAL OF EXISTING CURBING AND THE ADDITION OF NEW CURBING.
- CAMPUS EMERGENCY GENERATOR SYSTEMS
 - GENERATOR BUILDING SYSTEMS
 - FUEL STORAGE, FILL AND DISTRIBUTION SYSTEMS

APPLICABLE CODES

- THE FOLLOWING CODES, GUIDELINES & REGULATIONS WERE UTILIZED IN THE PREPARATION OF THESE DRAWINGS. THE SCOPE OF THIS WORK IS NEW CONSTRUCTION UNDER THE FLORIDA BUILDING CODE 2007 EDITION
- FLORIDA BUILDING CODE - 2007 EDITION

DRAWING INDEX

SHEET NUMBER	SHEET NAME
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A-200	BUILDING ELEVATIONS AND CROSS SECTION
A-300	DETAILS
ELECTRICAL, MECHANICAL & PLUMBING ENGINEERING	
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E-002	ELECTRICAL SPECIFICATIONS & DEMOLITION NOTES
E-100	ELECTRICAL SITE PLAN
E-101	ENLARGED FLOOR PLAN
E-201	ELECTRICAL POWER AND ONE-LINE DIAGRAM
E-301	ELECTRICAL DETAILS
E-302	ELECTRICAL DETAILS
E-303	ELECTRICAL DETAILS
E-304	ELECTRICAL DETAILS
E-305	ELECTRICAL DETAILS
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P-100	PLUMBING SITE PLAN
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S001	STRUCTURAL NOTES
S002	ABBREVIATIONS, LEGENDS & SCHEDULE
S101	TYPICAL DETAILS
S102	TYPICAL DETAILS
S201	FOUNDATION AND ROOF FRAMING PLAN



OVERALL LOCATION / SITE PLAN
N.T.S.

OWNERSHIP

Florida's Warmest Welcome

City of Pompano Beach

ENGINEERING DIVISION
1201 N.E. 5th AVENUE
POMPAHO BEACH, FL 33060
Phone: (954) 786-4029 Fax: (954) 786-4028

ARCHITECTURE / PLANNING

BERMELLO AJAMIL & PARTNERS INC
Architecture Engineering Planning Interior Design Landscape Architecture
900 SOUTHEAST 3RD AVENUE, SUITE 203
FORT LAUDERDALE, FL 33316
Phone: (954) 467-1113 Fax: (954) 467-1116
CERT. OF AUTHORIZATION #034 FL ARCH. PUBLIC. AA0000412

STRUCTURAL ENGINEERING

TRC WORLDWIDE ENGINEERING, Inc.
3950 N.W. 56TH STREET
FORT LAUDERDALE, FL 33309
Phone: (954) 484-7777 Fax: (954) 484-7834
www.trc.com

MEP ENGINEERING

TIC ENGINEERING FOR ARCHITECTURE
800 FAIRWAY DRIVE - SUITE 250
DEERFIELD BEACH, FL 33441
Phone: (954) 416-9096 Fax: (954) 418-9296
www.tic-engineers.com EB # 0000015

CIVIL ENGINEERING / SURVEYING

301 EAST ATLANTIC BOULEVARD
POMPAHO BEACH, FLORIDA 33060-9643
(954) 786-7801 FAX: (954) 786-9550

STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028

TODD D. OSBORN, R.A.
FL ARCHITECT REG. NO. 92877

PERMIT PACKAGE
JULY 2011

REVISIONS:

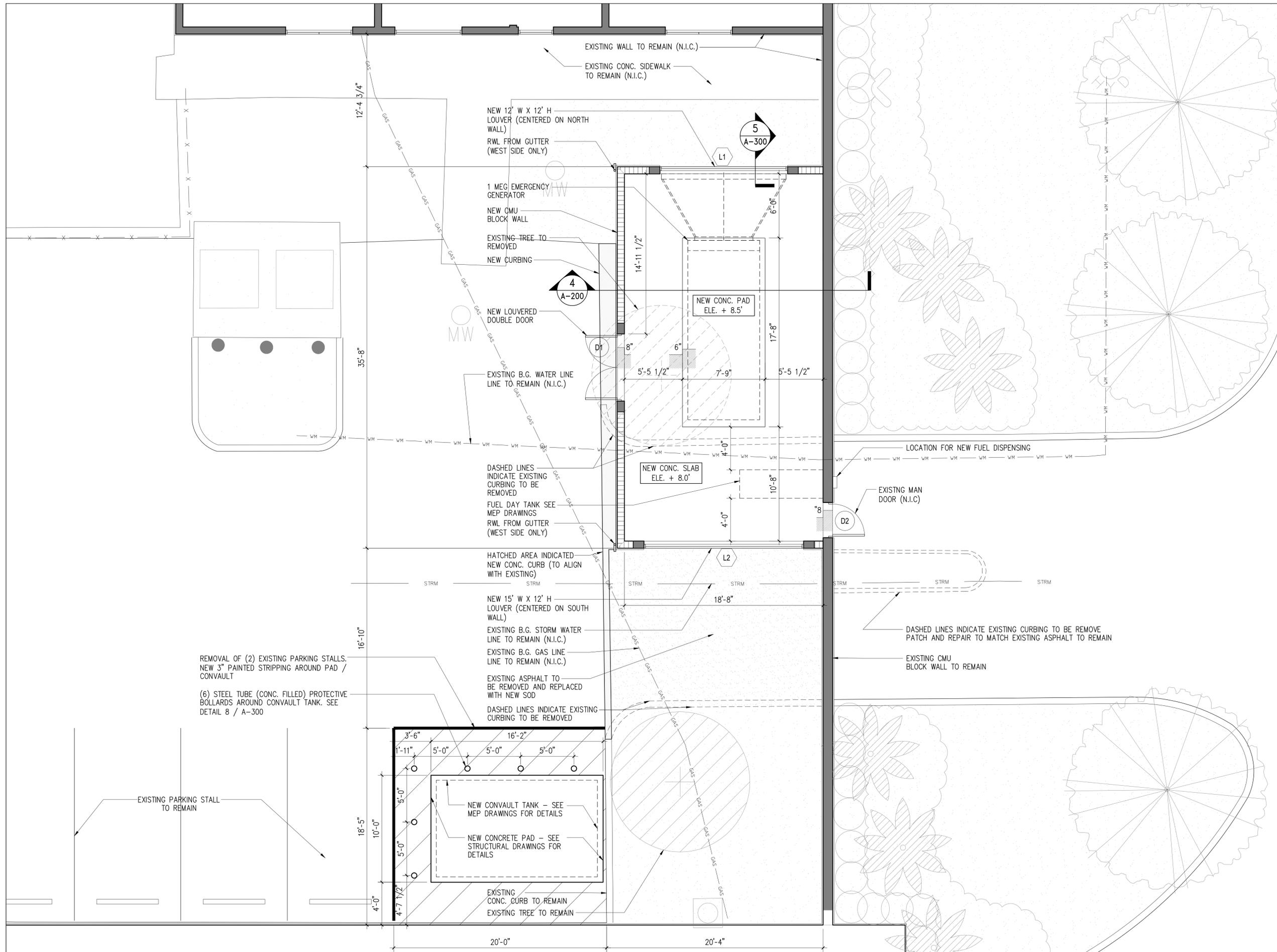
PROJECT NAME:
POMPAHO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

PROJECT ADDRESS:
**180 SW 3rd STREET,
POMPAHO BEACH,
FLORIDA, 33060**

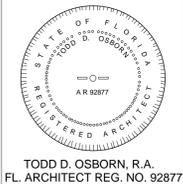
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DATE: JULY 2011
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DRAWING TITLE:
GENERAL NOTES AND INDEX

SHEET NO. **G-100**



1 SITE / FLOOR PLAN
 SCALE: 1/4" = 1'-0"



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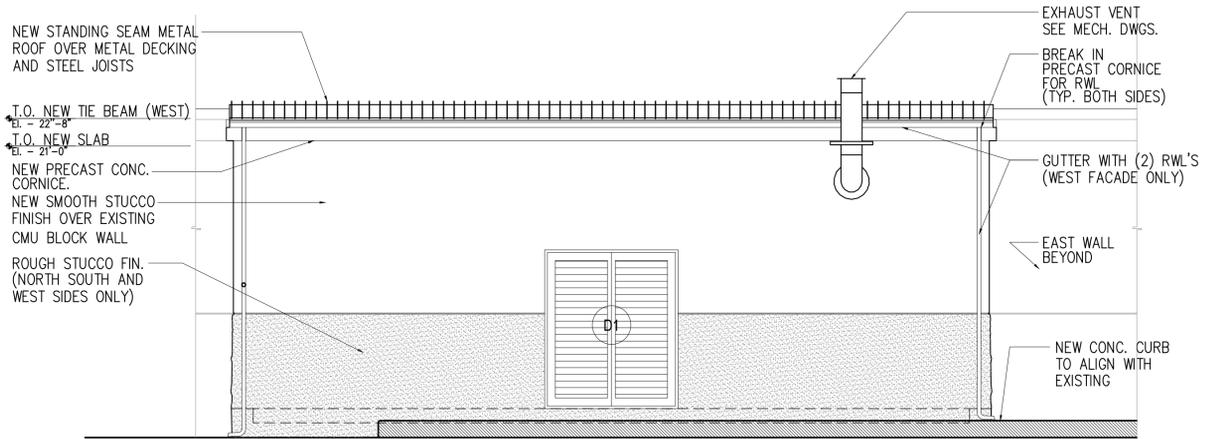
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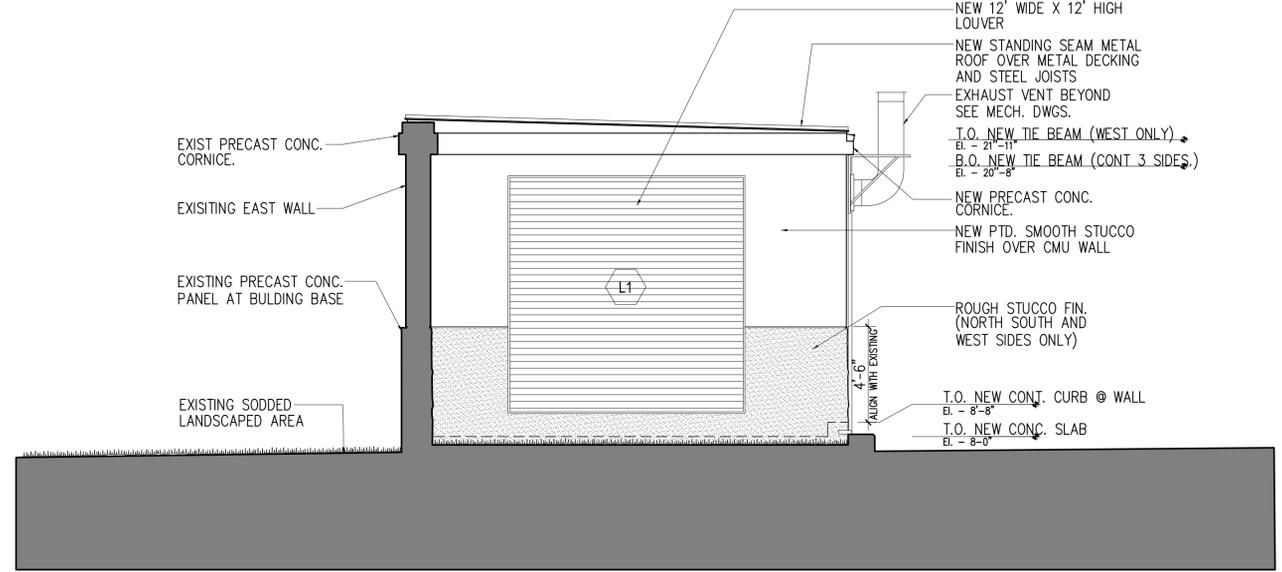
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SITE / FLOOR PLAN



NOTE: EXISTING EAST WALL TO REMAIN AND SHOWN [shaded area] NOTE: ALL SURFACES SHALL INCLUDE HIGH BUILD ACRYLIC COATING TO NEW PTD. STUCCO OVER THORSEAL WATERPROOF MEMBRANE ON NEW CMU BLOCK WALL SUBSTRATE (TYP.)

NOTE: SEE ALL "S" SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION AND DETAILS.

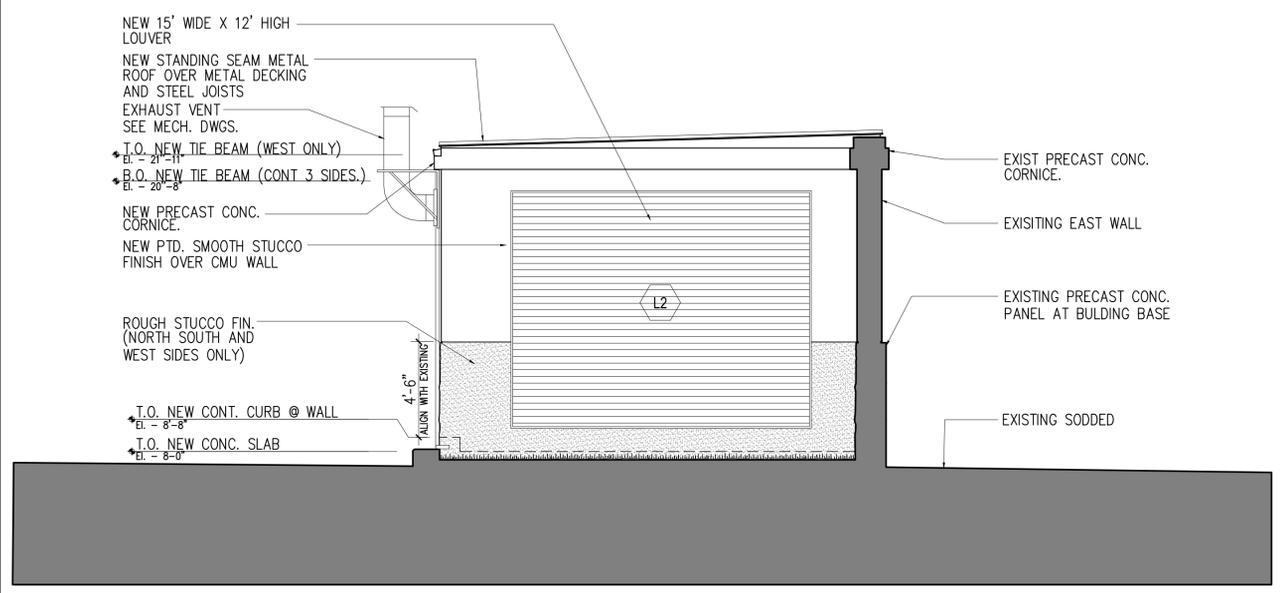
1 WEST BUILDING ELEVATION
SCALE: 1/4"=1'-0"



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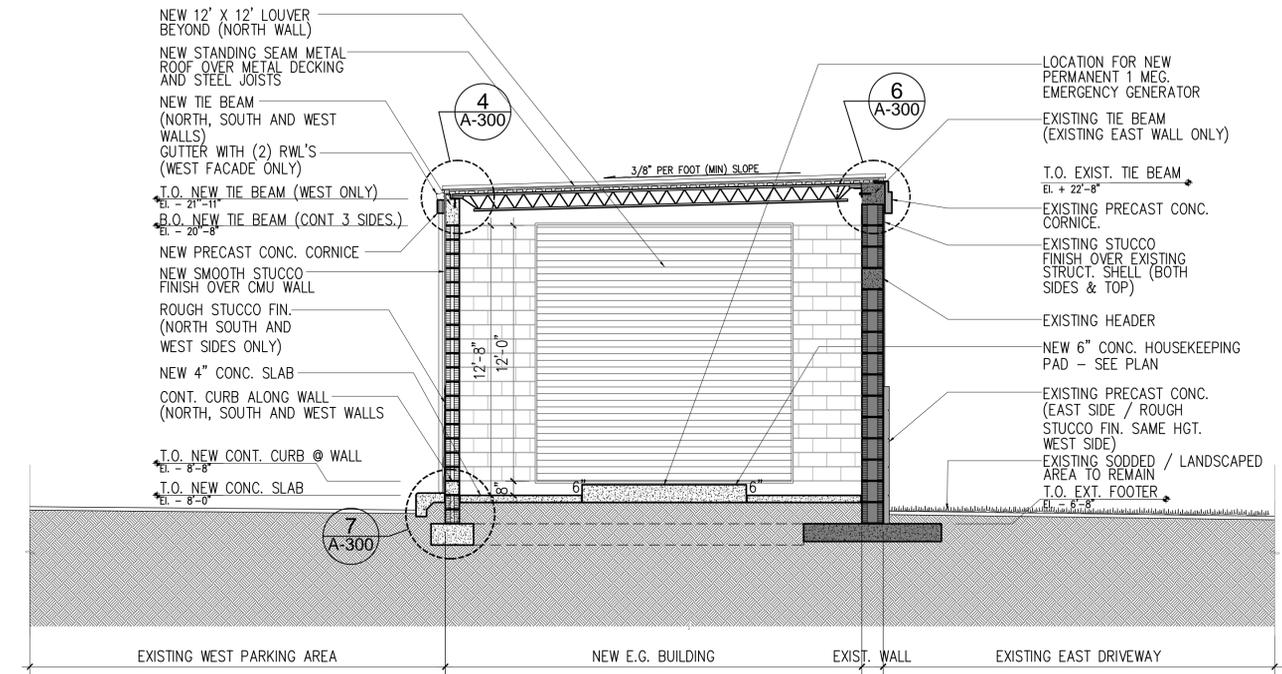
2 NORTH BUILDING ELEVATION
SCALE: 1/4"=1'-0"



NOTE: EXISTING EAST WALL TO REMAIN AND SHOWN [shaded area] NOTE: ALL SURFACES SHALL INCLUDE HIGH BUILD ACRYLIC COATING TO NEW PTD. STUCCO OVER THORSEAL WATERPROOF MEMBRANE ON NEW CMU BLOCK WALL SUBSTRATE (TYP.)

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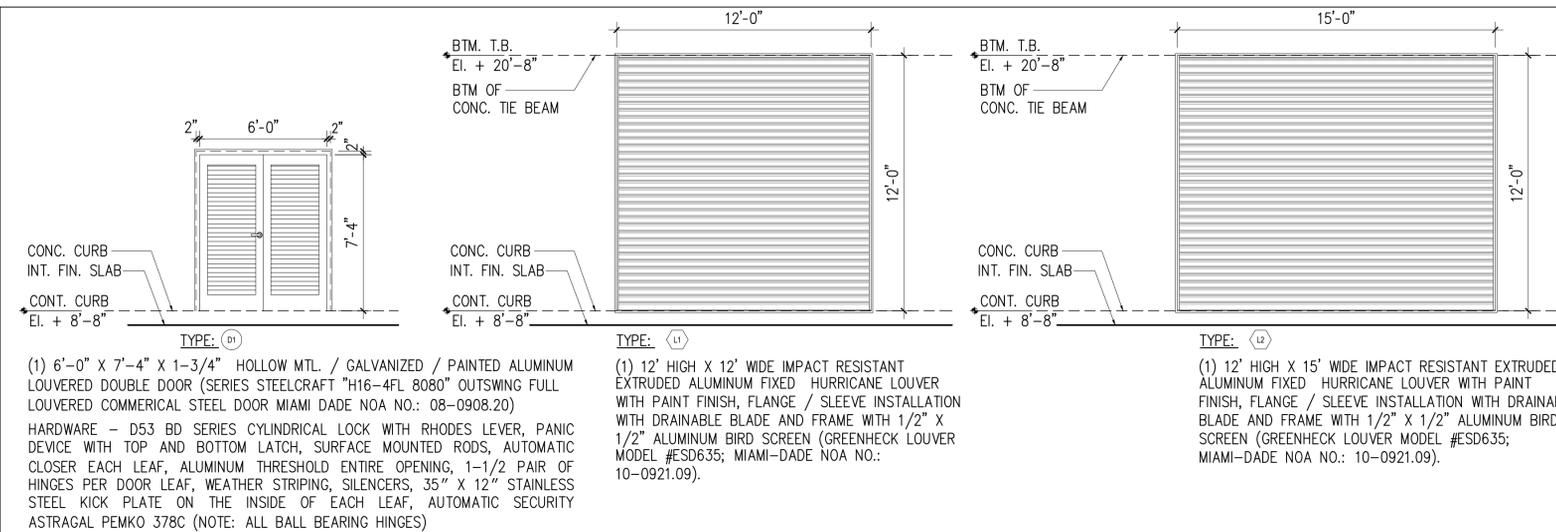
3 SOUTH BUILDING ELEVATION
SCALE: 1/4"=1'-0"



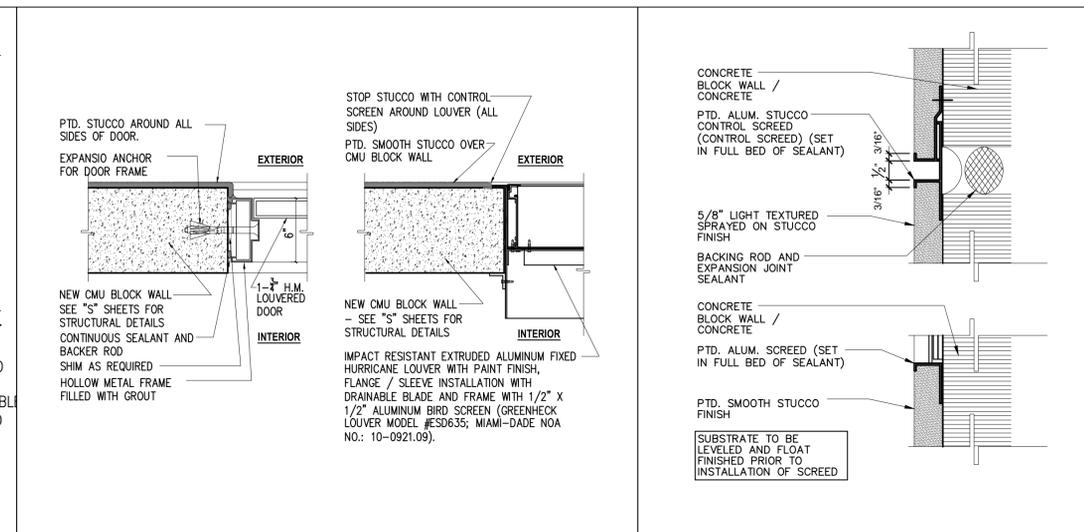
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4 EAST / WEST BUILDING SECTION
SCALE: 1/4"=1'-0"

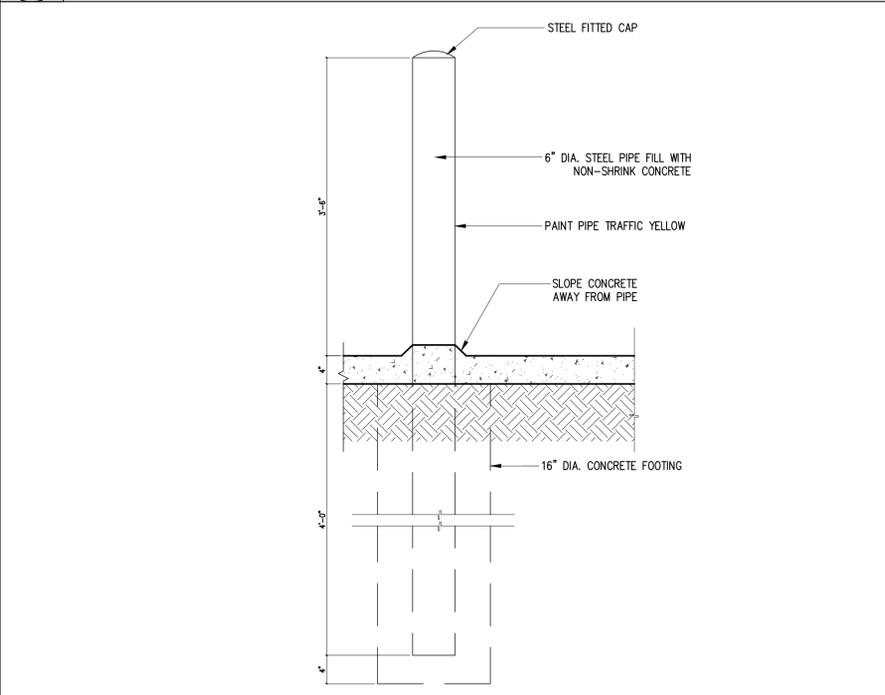


1 DOOR AND LOUVERS
 SCALE: 1/4"=1'-0"

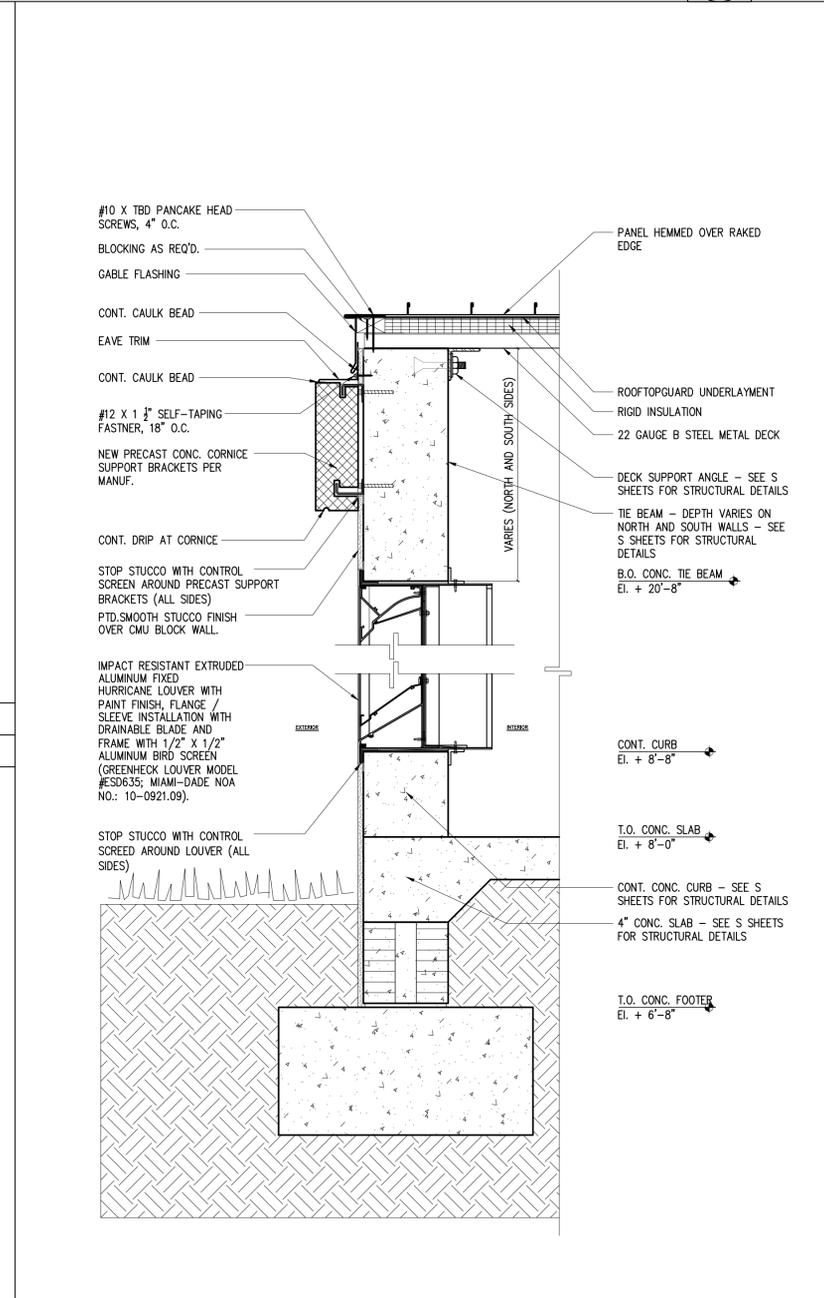


2 DOOR AND LOUVER JAMB DETAILS
 SCALE: 1 1/2"=1'-0"

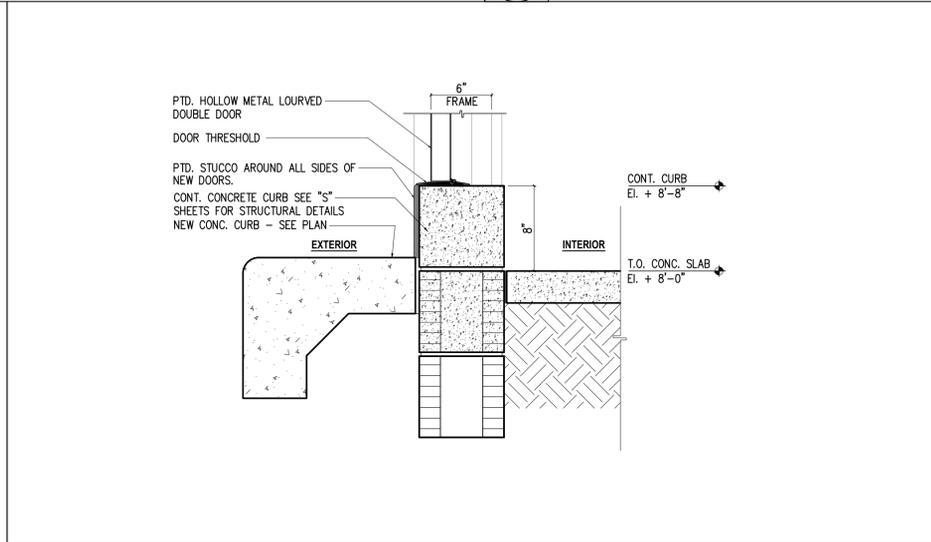
OWNERSHIP
pompano beach
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 (954) 786-3600 FAX: (954) 786-3550
 STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028
 REGISTERED ARCHITECT
 TODD D. OSBORN, R.A.
 FL. ARCHITECT REG. NO. 92877



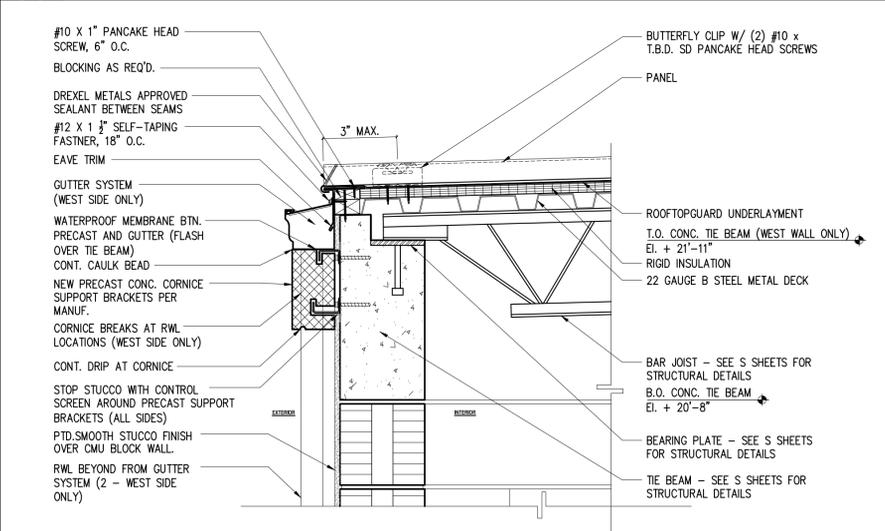
8 TYPICAL BOLLARD DETAIL
 SCALE: 1 1/2" = 1'-0"



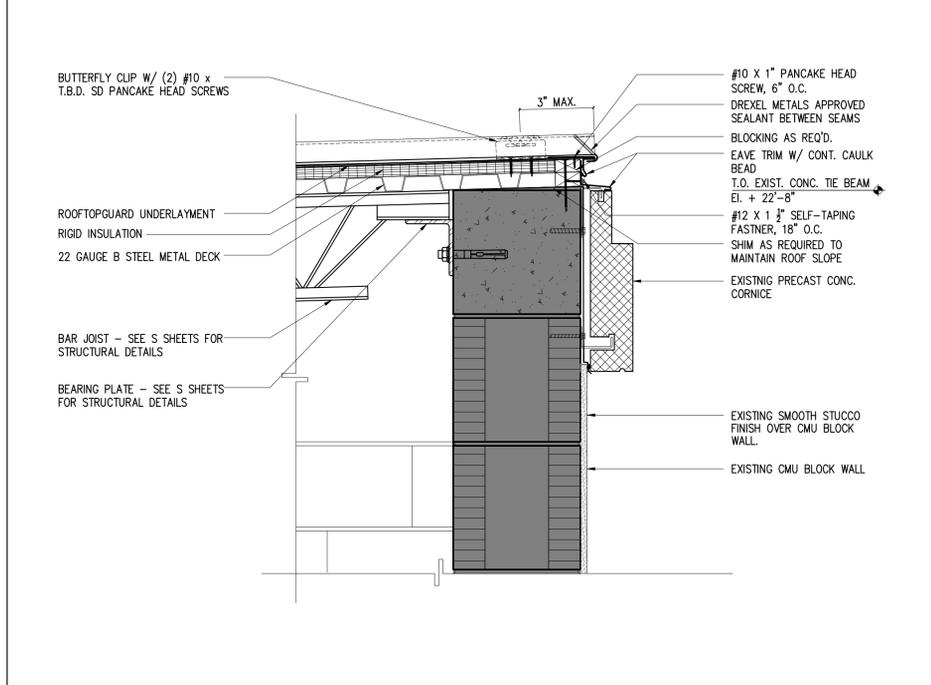
5 WALL SECTION - NORTH / SOUTH WALLS AT LOUVER
 SCALE: 1 1/2" = 1'-0"



7 WALL SECTION - WEST WALL AT DOUBLE DOORS
 SCALE: 1 1/2" = 1'-0"



4 WALL SECTION - WEST WALL AT ROOF
 SCALE: 1 1/2" = 1'-0"



6 WALL SECTION - WEST WALL AT ROOF
 SCALE: 1 1/2" = 1'-0"

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 DRAWN: SAB
 CHECKED: TBO
 CADD FILE:

DRAWING TITLE:
WALL SECTIONS DOOR AND LOUVER DETAILS

SHEET NO. **A-300**

GENERAL NOTES:

- THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS." ALL WORKMANSHIP, METHODS, AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED, OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
- WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE A/E IMMEDIATELY IN WRITTEN FORM. CONTRACTOR SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL A WRITTEN DIRECTIVE HAS BEEN RETURNED. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES, WHEREIN THE CODE SHALL GOVERN.
- THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY DETAIL OF CONSTRUCTION, METHODS, MATERIALS AND EQUIPMENT, OR EXACT LOCATIONS, ROUTING, ETC. THEY INDICATE THE RESULT TO BE ACHIEVED BY THE ASSEMBLAGE OF SEVERAL SYSTEMS FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. DO NOT SCALE THE CONTRACT DOCUMENTS. COORDINATE EXACT EQUIPMENT LOCATIONS WITH THE ARCHITECTURAL AND STRUCTURAL PORTIONS OF THE CONTRACT DOCUMENTS, AS WELL AS FIELD CONDITIONS, APPROVED SHOP DRAWINGS, AND WORK OF ALL OTHER DIVISIONS/TRADES.
- THE TERM "PROVIDE" USED IN THE CONTRACT DOCUMENTS INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS, INCLUDING ALL COST FOR SHIPPING, UNLOADING, STORAGE, UNPACKING, ERECTION, ANCHORING, ETC. REQUIRED FOR CORRECT INSTALLATION OF A COMPLETE SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE.
- UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED IN THE CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE U.L. LISTED, AND SHALL BEAR A U.L. LABEL, WHERE NO U.L. LABEL OR LISTING IS AVAILABLE THE MATERIAL SHALL BE LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY, WHERE NO LABELING OR LISTING IS AVAILABLE FOR MATERIAL, TEST DATA SHALL BE SUBMITTED TO THE A/E AS EVIDENCE THAT THE MATERIAL MEETS OR EXCEEDS AVAILABLE STANDARDS. EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), ALL APPLICABLE LOCAL CODES, ORDINANCES AND ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ), AS A MINIMUM.
- THE CONTRACTOR SHALL PROVIDE EXPERIENCED, QUALIFIED, AND RESPONSIBLE SUPERVISION FOR ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE A/E AND OWNER. ALL WORK SHALL BE PERFORMED IN A FIRST-CLASS MANNER.
- THE CONTRACTOR SHALL CARRY ALL INSURANCE REQUIRED TO PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THIS PROJECT.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE A/E AND OWNER. THE CONTRACTOR, AT NO ADDITIONAL COSTS, SHALL PROVIDE THE CORRECTION OF ANY DEFECTS INCLUDING REPAIR OR REPLACEMENT.
- THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH PERMITS, LICENSES, FEES, INSPECTIONS, TESTING AND TEMPORARY POWER IN HIS PROPOSAL, UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE REASONABLY BEEN OBSERVED BY THE CONTRACTOR WILL NOT BE RECOGNIZED.
- THE CONTRACTOR SHALL COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH A/E AND OWNER PRIOR TO SUBMITTING PROPOSAL. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL. THE CONTRACTOR SHALL PROVIDE ADEQUATE WORK FORCE EQUIPMENT, AND SHALL WORK SUCH HOURS INCLUDING PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, THE CONTRACTOR SHALL ENSURE THAT LONG-LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
- ALL TEMPORARY DOWNTIME REQUIRED FOR SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED BY THE OWNER AND SCHEDULED IN ADVANCE.
- THE CONTRACTOR SHALL COORDINATE THE EXACT REQUIREMENTS WITH ALL LOCAL UTILITY COMPANIES (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN HIS BID. CONTRACTOR'S PROPOSAL SHALL INCLUDE, BUT IS NOT LIMITED TO: EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, GROUNDING AND IMPACT FEES.
- THE CONTRACTOR SHALL INCLUDE ALL COST FOR THE PROPER STORAGE, TRANSPORT, DISPOSAL, AND/OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS WORK. CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND GUIDELINES THAT APPLY. REMOVE DEBRIS, RUBBISH, ETC. RESULTING FROM THIS WORK FROM THE SITE DAILY.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND GUIDELINES CONCERNING REMOVAL, HANDLING, DISPOSAL, AND PROTECTION AGAINST ENVIRONMENTAL EXPOSURE OR POLLUTION. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF SAID COMPLIANCE.
- CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. ANY DAMAGE TO SURROUNDING ELEMENTS RESULTING FROM THE CONTRACTOR'S FAILURE TO ADHERE TO THIS REQUIREMENT SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR, TO THE SATISFACTION OF THE A/E AND OWNER, AT NO ADDITIONAL COSTS. REPORT ANY SUCH OCCURRENCE TO THE A/E AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
- WHERE THE CONTRACTOR ELECTS TO SUBSTITUTE A PRODUCT IN LIEU OF PROVIDING THE DESIGN BASIS, AND SAID SUBSTITUTION IS ACCEPTED BY THE A/E AND OWNER, THE CONTRACTOR SHALL MAKE ALL CORRECTIONS TO THE ELECTRICAL SYSTEM NECESSARY IN ORDER TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION OF THE EQUIPMENT AT NO ADDITIONAL COSTS. WHERE THE CONTRACTOR'S DECISION TO SUBSTITUTE PRODUCTS RESULTS IN THE NEED FOR THE A/E TO REVISE THE CONTRACT DOCUMENTS, THE A/E RESERVES THE RIGHT TO REQUEST COMPENSATION FROM THE CONTRACTOR FOR SAID SERVICES.
- CONTRACTOR SHALL MAINTAIN A CURRENT ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THIS PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE A/E FOR REVIEW AND THEN SUBMITTED TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
- IN GENERAL, VOLTAGE DROP FOR ANY FEEDER SHALL NOT EXCEED 2%. WHERE VOLTAGE DROP EXCEEDS THESE REQUIREMENTS, THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTORS AND RACEWAY AS REQUIRED.

- WHERE OPENINGS PENETRATE A FIRE RATED FLOOR, WALL, CEILING, OR ROOF, FIRE STOPPING SHALL BE PROVIDED. MEET ALL REQUIREMENTS FOR THE U.L. ASSEMBLY AND RACEWAYS INVOLVED.
- CONTRACTOR SHALL INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILL, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
- CONTRACTOR SHALL LOCATE, IDENTIFY, PROTECT, AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS BEFORE DIGGING AT 800-432-4770.
- ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE RAIN PROOF TYPE NEMA 3R (MINIMUM), WHETHER INDICATED ON CONTRACT DOCUMENTS OR NOT.
- ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED IN A HAZARDOUS (CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION WHETHER INDICATED ON THE CONTRACT DOCUMENTS OR NOT.
- ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO THE COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
- THE USE OF ALUMINUM CONDUCTORS IS PROHIBITED.
- THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT), AND LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E AND OWNER GRANTS WRITTEN PERMISSION.
- ALL FEEDER CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE. MC CABLE MAYBE USED LIEU OF RACEWAY SYSTEM WHERE ACCEPTABLE WITH AHJ.
- ALL FEEDERS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. RACEWAYS SHALL NOT BE USED AS EQUIPMENT GROUND.
- ALL RACEWAYS THAT RISE UP FROM UNDERGROUND SHALL BE GALVANIZED RIGID STEEL (RGS) WITH BITUMASTIC COATING FOR AT LEAST THE FINAL 18" IN LENGTH. USE OF NONMETALLIC CONDUIT ABOVE GRADE IS NOT ACCEPTABLE.
- PROVIDE PLASTIC LAMINATE NAME TAGS ON EACH SAFETY SWITCH, CONTROL PANEL, CABINET, AND ANY OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM.
- PROVIDE A REINFORCED CONCRETE PAD SIZED 4" LARGER IN BOTH DIRECTIONS AND 4" HIGH FOR ALL FREESTANDING, ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING, AND EXIT SIGNAGE REQUIRED FOR THE DURATION OF THIS PROJECT.
- SPACE REQUIREMENTS: ALL EQUIPMENT SHALL CONFORM TO ESTABLISHED SPACE REQUIREMENTS WITHIN THE PROJECT. EQUIPMENT WHICH DOES NOT MEET SPACE REQUIREMENTS, SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE CONTRACT. MODIFICATIONS OF RELATED SYSTEMS SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE CONTRACT. THE CONTRACTOR SHALL COORDINATE REQUIRED CLEARANCES FOR ALL EQUIPMENT WITH OTHER TRADES PRIOR TO EQUIPMENT PURCHASE AND INSTALLATION. ALL REQUIRED CODE AND MANUFACTURER LISTED CLEARANCES FOR ACCESS, MAINTENANCE, OPERATION, AND SAFETY SHALL BE MAINTAINED.

ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

SYMBOL	DESCRIPTION
	SURGE SUPPRESSOR DEVICE (SPDS) 2 = DISTRIBUTION / PANELBOARD DEVICE 3 = PANELBOARD CIRCUIT DEVICE
	SHUNT-TRIP BUTTON - FLUSH MOUNTED UNLESS OTHERWISE NOTED NEMA 3R FOR EXTERIOR LOCATIONS
	PULL BOX
	GEN SET EPO IN A KNOX BOX
	ELECTRICAL MANHOLE
	AUTOMATIC TRANSFER SWITCH
	TRANSFORMER
	NON-FUSED DISCONNECT SWITCH, SIZE & # OF POLES NF DENOTES NON-FUSED AF DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE
	FUSED DISCONNECT AF DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, FLUSH MOUNTED
	GROUND OR GROUND ROD AS NOTED
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
	CONDUIT CONTINUED
	DEMO EXISTING FEEDER
	CONDUIT UNDERGROUND
	EXISTING TO REMAIN
	NEW
	ALTERATION / CONNECTION TO EXISTING INFRASTRUCTURE
	SURGE SUPPRESSOR DEVICE 2 = DISTRIBUTION BOARD DEVICE 3 = PANELBOARD DEVICE

ONE-LINE DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	SUB-PANEL BREAKER
	ENCLOSED CIRCUIT BREAKER
	SWITCHBOARD OR DISTRIBUTION BOARD
	MAIN BREAKER PANEL
	MAIN LUG ONLY PANEL
	GENERATOR
	GROUND ELECTRODE & GROUNDING ELECTRODE CONDUCTOR

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

GENERAL NOTES:

- OCCUPANCY : OFFICE
- CODES: NFPA CHAPTER 36, FLORIDA BUILDING CODE
2007 FBC WITH 2009 REVISIONS.
2008 NFPA-70.
- CONTRACTOR SHALL COMPLY WITH FBC (1304.1.ABC.2.1) PROVIDE OWNER WITH A RECORD SET DRAWING OF COMPLETE INSTALLATION DRAWINGS.
 - CONTRACTOR SHALL COMPLY WITH FBC (1304.1.ABC.2.2) PROVIDE OWNER WITH A OPERATION MANUALS AND MAINTENANCE MANUALS.
 - EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
 - A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.
B. THE EXCLUSIVELY-DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408.

SCOPE OF WORK:

THE GENERAL SCOPE OF WORK INVOLVES CONSTRUCTION OF A GENERATOR SYSTEM WITH AUTOMATIC TRANSFER SWITCH, MAIN SWITCH AND CONNECTIONS TO THE EXISTING ELECTRICAL INFRASTRUCTURE.

UTILITY CONTACTS:

- FP&L - ALEX OTTEN - 954-956-2023

ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION	ISSUED
E-001	ELECTRICAL LEGEND, SHEET INDEX AND NOTES	YES
E-002	ELECTRICAL SPECIFICATIONS AND DEMOLITION NOTES	YES
E-100	ELECTRICAL SITE PLAN	YES
E-101	ENLARGEMENT FLOOR PLANS	YES
E-201	ELECTRICAL POWER ONE-LINE DIAGRAM	YES
E-301	ELECTRICAL DETAILS	YES
E-302	ELECTRICAL DETAILS	YES
E-303	ELECTRICAL DETAILS	YES
E-304	ELECTRICAL DETAILS	YES
E-401	ELECTRICAL SCHEDULES	YES

OWNERSHIP



City of Pompano Beach

ENGINEERING DIVISION
1201 N.E. 5th AVENUE
POMPANO BEACH, FL 33060
Phone: (954) 786-4029 Fax: (954) 786-4028

ARCHITECTURE / PLANNING



BERMELLO AJAMIL & PARTNERS INC

Architecture Engineering Planning Interior Design Landscape Architecture
900 SOUTHEAST 3RD AVENUE, SUITE 203
FORT LAUDERDALE, FL 33316
Phone: (954) 467-1113 Fax: (954) 467-1116
CERT. OF AUTHORIZATION #6384 FL ARCH. PUBLIC. AAC000412

STRUCTURAL ENGINEERING



TRC WORLDWIDE ENGINEERING, Inc.

3950 N.W. 56TH STREET
FORT LAUDERDALE, FL 33309
Phone: (954) 484-7777 Fax: (954) 484-7834
www.trcinc.com

MEP ENGINEERING



ENGINEERING FOR ARCHITECTURE
800 FARWAY DRIVE - SUITE 250
DEERFIELD BEACH, FL 33441
Phone: (561) 416-9096 Fax: (561) 418-9296
www.tl-engineers.com EB # 000015



381 EAST ATLANTIC BOULEVARD
POMPANO BEACH, FLORIDA 33060-6643
(954) 786-4029 FAX (954) 786-3000

STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028

Stephen F. Rollin, P.E.
Florida License #36428

PERMIT PACKAGE
NOVEMBER 2011

REVISIONS:

PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET,
POMPANO BEACH,
FLORIDA, 33060

COMM. NO. 11018.000
SCALE: _____
DATE: JANUARY 2012
DRAWN: JRH
CHECKED: KW
CADD FILE: _____

DRAWING TITLE:
ELECTRICAL LEGEND, SHEET INDEX AND NOTES

SHEET NO. E-001

ELECTRICAL SPECIFICATIONS:

DIVISION 16 - ELECTRICAL

16010 BASIC ELECTRICAL REQUIREMENTS

A. All work and equipment under this Division shall be in strict compliance with the latest edition of codes, standards and practices listed herein are furnished as the minimum requirements.

1. State of Florida.
2. Broward County.
3. City of Pompano Beach
4. Life Safety Code - NFPA 101.
5. Underwriters Laboratories, Inc. Publications
6. National Fire Protection Association (NFPA)
7. American National Standards Institute (ANSI).
8. National Electrical Code - NFPA 70.
9. Institute of Electrical and Electronic Engineers (IEEE).
10. National Electrical Manufacturer's Association (NEMA).
11. International Power Cable Engineer's Association (IPCEA).
12. Requirements of Local Power Corporation.
13. National Fire Protection Association 72.
14. Building Code: Florida Building Code 2007 WITH 2009 SUPPLEMENTS.
15. AIA Guidelines
16. NFPA 110

B. Scope of Work: The work provided under this Division shall include all labor, materials, permits, inspections and reinspection fees, tools, equipment, transportation, insurance, temporary protection, temporary lighting, supervision and incidental items essential for proper installation and operation, even though not specifically mentioned or indicated but which are usually provided or are essential for proper installation and operation of all Electrical systems as indicated in contract documents.

C. Notices: Give all notices, file all Plans, pay all fees, obtain all permits and approvals from authorities having jurisdiction. Include all fees in the Bid Price.

D. Interpretation of Drawings:

1. The Drawings are diagrammatic and are not intended to show exact locations of conduit runs, outlet boxes, junction boxes, pull boxes, etc. The locations of equipment, conduits, boxes and similar devices shown on the Drawings are approximate only. Exact locations shall be as accepted by the Engineer during construction. Obtain in the field all information relevant to the placing of electrical work and in case of interference with other work, proceed as directed by the Engineer and provide all labor and materials necessary to complete the work in an acceptable manner.
2. Discrepancies: Notify Engineer of any discrepancies found during construction of the project and do not proceed with that portion of the project, until a written definitive statement is received providing clear direction. If a conflict exists between the contract documents and any applicable code or standard, the most stringent requirement shall be included for this project. The Engineer shall make the decision regarding questionable areas of conflict.
3. Wiring: Each three-phase circuit shall be run in a separate conduit unless otherwise shown on the Drawings. Unless otherwise accepted by the Engineer, conduit shall not be installed exposed unless specifically directed to be concealed.

G. All materials shall be new, free from defects and shall be either U.L. labeled, U.L. listed or bear the seal of a nationally recognized electrical testing laboratory.

H. Shop drawings are required for all materials and equipment.

I. All equipment shall be firmly mounted using approved hangers attached to structural portions of the building. Supporting wire tie wire is prohibited. Light fixtures recessed in ceilings shall be supported from the building structure independent of the ceiling system.

J. Service and metering is existing to remain except where noted otherwise. Temporary light and power shall be provided as required.

K. Systems Guarantee: Provide a one-year guarantee. This guarantee shall be by the Contractor to the Owner for any defective workmanship or material which has been provided under this Contract at no cost to the Owner for a period of one year from the date of Substantial Completion of the System. Explain the provisions of guarantee to the Owner at the "Demonstration of Completed System". Include generator service for 1 year with extension option at end of 1 year.

16020 TEST AND PERFORMANCE VERIFICATION

A. Equipment and applications shall be per NEMA standards.

B. Cables, grounds (new and existing), transformers, and the emergency system shall be thoroughly tested. Contractor shall provide a report indicating the results of all tests.

16030 ELECTRICAL IDENTIFICATION

A. Language: all identification shall be in English.

B. Conduits system markers shall be engraved plastic, laminate nameplates and shall be adhesive or pre-tensioned snap on color coded, system marking materials.

C. Identification: Provide circuit information tags at each access and termination point.

D. Cable and conductor identification will be as per NFPA 70.

E. Operational signage shall be provided where required.

16110 BASIC MATERIALS AND METHODS

A. Raceways and Fittings:

1. All wiring shall be installed in appropriate raceway systems of rigid galvanized conduit, electric metallic tubing, flexible steel conduit and liquid-tight flexible conduit as conditions and codes dictate. EMT shall be joined with set screw type fittings.
2. All conduit shall have an insulated copper equipment grounding conductor throughout the entire length of the circuit within the conduit.

16120 WIRES AND CABLES

- A. Conductors shall be THHN/THWN listed stranded copper.
- B. Color coding shall comply with the National Electric Code. Phase conductors of each voltage system must be of a different color. Neutrals shall be white for 120/208, white with stripe for 120/240 and gray for 277/480. Equipment grounding conductors shall be green insulated.

16130 OUTLET BOXES

A. Outlet Boxes: Outlet boxes shall be one piece or projection welded, galvanized stamped steel for gang sizes required. Sectional boxes are not acceptable. Boxes shall be 4" square and 1-1/2" deep generally. Larger boxes shall be used as required by code.

16415 AUTOMATIC TRANSFER SWITCH

- A. General:
 1. Solid state controls.
 2. Resistant to damage by voltage transients.
 3. Solenoid or electric-motor operated.
 4. Designed for continuous-duty, repetitive transfer of full-rated current.
 5. Neutral terminals for single-phase, three-wire or three-phase, four-wire systems without neutral switching.
 6. Provide UL 1449 edition surge protection for all control / annunciation circuits.
 7. Annunciation, control, and programming interface components.
 8. Enclosures: NEMA 1

B. Remote annunciation system

C. Testing: By Contractor with assistance of manufacturer's service representative.

D. Approved Manufacturers: Basis of design: Eaton / Cutler Hammer Catalog # _____

16709 SURGE SUPPRESSION, BONDING AND GROUNDING

A. Surge suppression equipment shall be provided for all new distribution equipment. It shall be installed on the main electrical service, all distribution panels and selected sub-panels, power supplies of special systems, and on circuits feeding selected major items that have a sensitive electrical nature. A bonding and single point grounding system shall be provided to interconnect the main electrical service ground, lightning protection grounds and all special electronic system isolated grounds.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN REMOVING/ RELOCATING ELECTRICAL EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT OTHER ELECTRICAL EQUIPMENT THAT MAY BE CONNECTED ON THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.
2. INFORMATION SHOWN ON THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR TO FIELD VERIFY ELECTRICAL FEEDERS TO ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION AND PERFORM THE WORK AS INTENDED AND DEPICTED ON THE DRAWINGS.
3. STORE ITEMS INDICATED TO BE RETURNED TO THE OWNER IN A DRY, CLEAN, AND PROTECTED AREA. NOTIFY OWNER WHEN ITEMS ARE READY TO BE REMOVED.
4. COORDINATE ANY ALTERATION AND CHANGES TO THE ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY.
5. PRE SCHEDULE ALL POWER INTERRUPTION WITH OWNER. GIVE OWNER 48 HOURS NOTICE PRIOR TO DISCONNECTING POWER TO ANY PORTION OF THE BUILDING AND MAKE ARRANGEMENT TO MAINTAIN POWER TO ALL CRITICAL EQUIPMENT AS NEEDED AND REQUESTED BY OWNER
6. CONTRACTOR IS RESPONSIBLE OF BECOMING FULLY INFORMED AS TO EXISTING CONDITIONS AT THE SITE. NEITHER THE OWNER NOR THE ARCHITECT MAKES ANY REPRESENTATION WARRANTY AS TO SITE CONDITIONS.
7. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE NATURE AND EXTENT OF WORK TO BE PERFORMED AND LOCAL CONDITIONS THAT MAY AFFECT THE WORK.
8. DUE TO REMOVAL OR CORRECTION TO ANY WALLS OR OTHER CONSTRUCTION NECESSITATING CAPING OF EXISTING ELECTRICAL WIRING DEVICES OR ANY OTHER ELECTRICAL EQUIPMENT INCLUDING RECONNECT OF SUCH EXISTING ITEMS IS CONSIDERED TO BE PART OF THE WORK UNDER THIS CONTRACT. ALL EXISTING OUTLET SHOWN TO REMAIN WILL REMAIN ACTIVE. THE REWIRING SHALL BE INCLUDED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
9. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES:
NATIONAL ELECTRICAL CODE (NEC)
NATIONAL FIRE PROTECTION AGENCY (NFPA)
FLORIDA BUILDING CODE
LOCAL ORDINANCES
10. WHERE CONDUIT IS INACCESSIBLE, REMOVE CONDUCTORS AND CUT BACK CONDUIT FLUSH WITH SLAB OR WALL. PATCH OPENING TO MATCH EXISTING FINISH. WHERE EXISTING WIRING EXTENDS OUTSIDE OF THE AREA BY NATURE OF THE ORIGINAL INSTALLATION, CONTRACTOR SHALL MODIFY EXISTING WIRING AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUITRY SUCH THAT NO EQUIPMENT TO REMAIN IS LEFT WITHOUT SERVICE.
11. THE CONTRACTOR TO GIVE THE OWNER AN OPPORTUNITY TO ACCEPT ANY ELECTRICAL ITEMS THAT WERE REMOVED FOR THEIR USE. SALVAGED MATERIALS, AND EQUIPMENT THE OWNER DOES NOT WISH TO KEEP SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR, WITHOUT ADDITIONAL COST TO THE OWNER.
12. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING WHERE REQUIRED DURING DEMOLITION AND CONSTRUCTION SCOPE OF WORK.
13. THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE TAKEN FROM ORIGINAL DRAWINGS PROVIDED BY THE OWNER AND FIELD INVESTIGATION. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE CONDITIONS SHOWN ARE INTENDED TO SHOW THE LOCATIONS OF THE EXISTING EQUIPMENT, AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION REQUIRED TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN.
14. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL EQUIPMENT WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
15. THE CONTRACTOR SHALL PHASE DEMOLITION WORK AS REQUIRED OR DIRECTED BY THE OWNER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR PATCHING ANY DAMAGE WHICH MAY OCCUR DURING DEMOLITION ACTIVITIES. REPAIRS TO BE DONE TO LOGICAL EDGES OF SURFACES AFFECTED, AND SHALL MATCH IMMEDIATE ADJACENT AREAS IN CONSTRUCTION, MATERIAL, FIRE RATING, FINISH AND COLOR.
17. ALL WORK SHALL BE PERFORMED BY A FLORIDA LICENSED ELECTRICAL CONTRACTOR AND SHALL BE COORDINATED WITH OTHER TRADES.
18. THE CONTRACTOR SHALL COORDINATE ELECTRICAL EQUIPMENT DEMOLITION WITH THE ARCHITECTURAL DEMOLITION PLANS AND THE OVERALL PROJECT REQUIREMENTS.
19. CONTRACTOR TO PROVIDE TEMPORARY GENSET FOR THE DURATION OF CUTOVER TO NEW GENSET INSTALLATION AND ENERGIZATION.
20. COORDINATE WITH FP&L AND OWNER PRIOR TO ANY SHUTDOWNS.

OWNERSHIP



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STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028

Stephen F. Rollin, P.E.
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NOVEMBER 2011

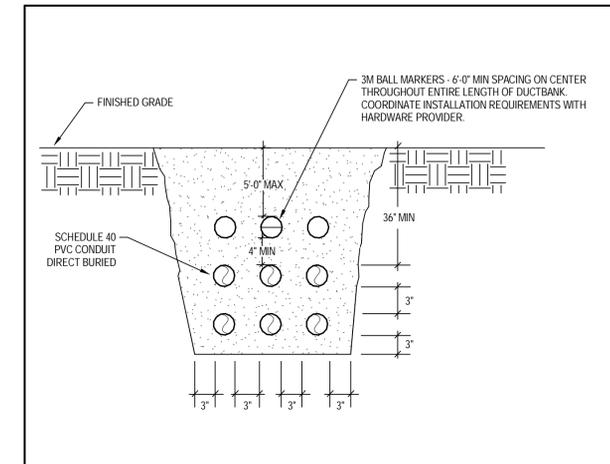
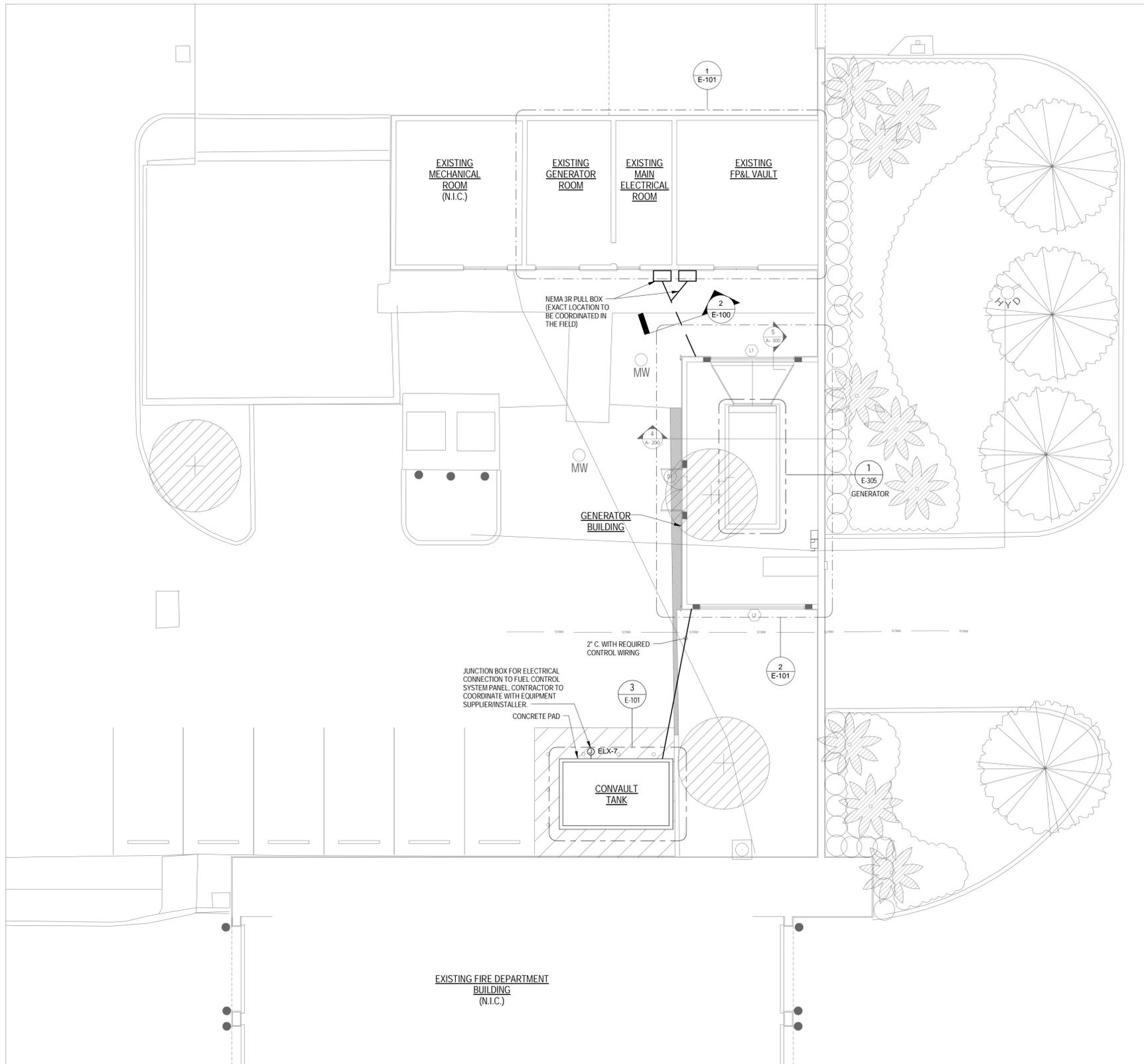
REVISIONS:

PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET, POMPANO BEACH, FLORIDA, 33060

COMM. NO.	11018.000
SCALE:	
DATE:	JANUARY 2012
DRAWN:	JRH
CHECKED:	KW
CADD FILE:	

DRAWING TITLE:
ELECTRICAL SPECIFICATIONS AND DEMOLITION NOTES
SHEET NO. **E-002**



SECTION AT DUCTBANK
No Scale

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL USE EXTREME CARE TO AVOID DAMAGE OR DISRUPTION TO ANY EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. ALL PLAN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4790 AND ALL OTHER PARTICIPATING UTILITIES (2) FULL BUSINESS DAYS PRIOR TO CONSTRUCTION TO FIELD MARK UP LOCATIONS OF EXISTING UTILITIES AND FACILITIES.
 2. CONTRACTOR SHALL COORDINATE ROUTING OF NEW UNDERGROUND RACEWAYS / DUCTBANK WITH EXISTING TREE ROOTS, EXISTING IRRIGATION LINES AND UTILITY INTERSECTIONS. HAND DIG AS A PRECAUTION.
 3. CONTRACTOR MAY FIELD ADAPT DUCT BANK BURIAL DEPTHS TO SUIT FIELD CONDITIONS. COMPLY WITH NEC AS MINIMUM REQUIREMENTS. PROVIDE AS-BUILD DRAWINGS.
 4. REFER TO ELECTRICAL RISER DIAGRAM SHEET E-201 FOR RACEWAY AND CONDUCTOR QUANTITIES AND SIZES.



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NOVEMBER 2011

REVISIONS:

PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

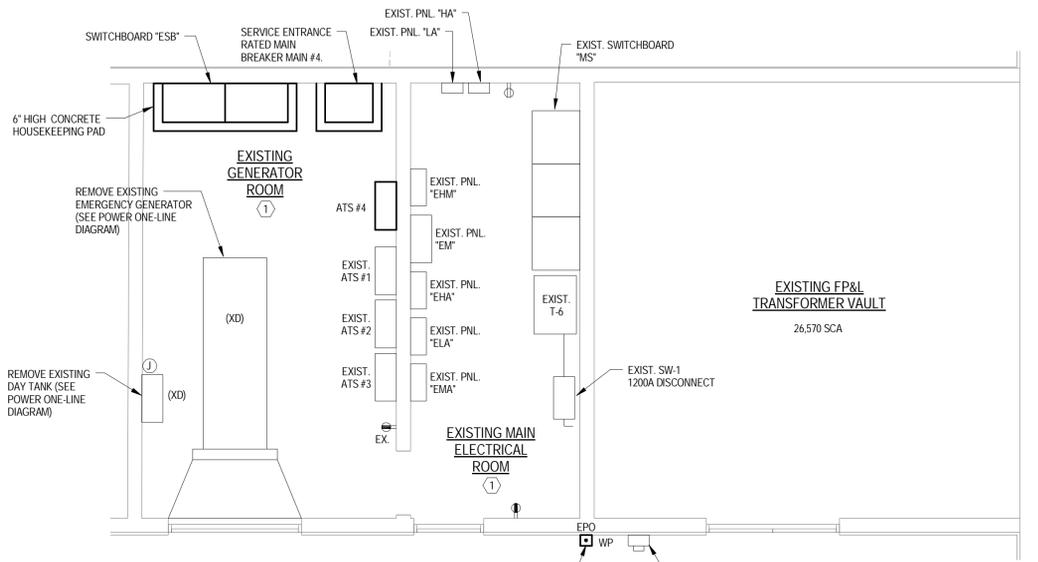
PROJECT ADDRESS:
180 SW 3rd STREET, POMPANO BEACH, FLORIDA, 33060

COMM. NO. 11018.000
SCALE: As indicated
DATE: JANUARY 2012
DRAWN: JRH
CHECKED: KW
CADD FILE:

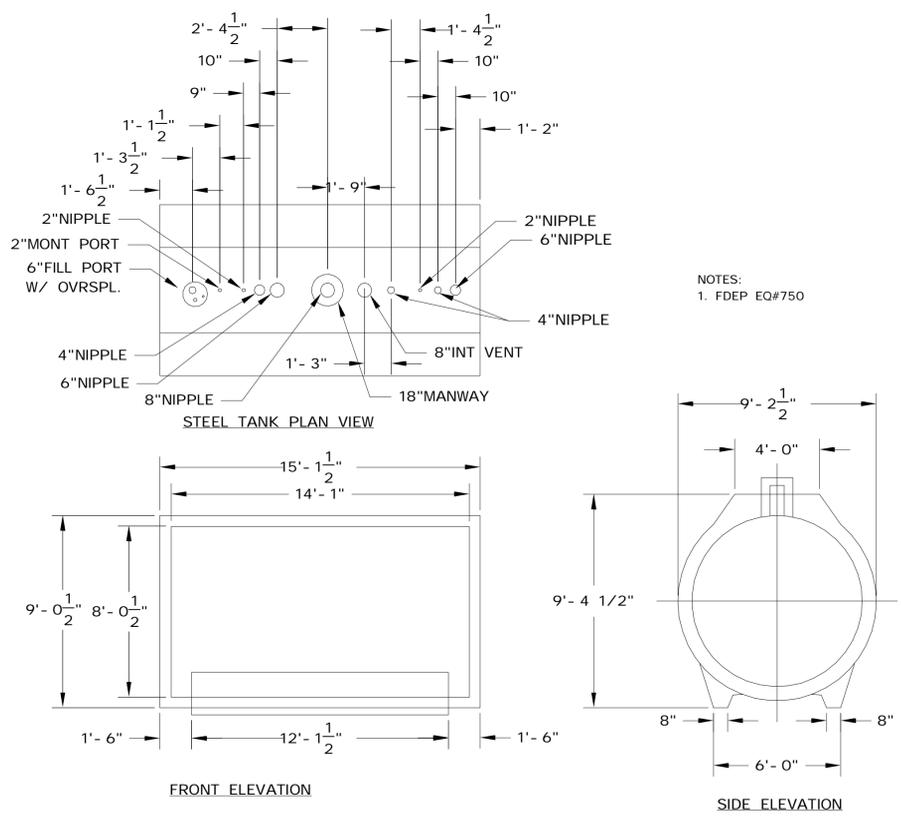
DRAWING TITLE:
ELECTRICAL SITE PLAN

SHEET NO. **E-100**

KEYED NOTES:
 ① ALL EXISTING ELECTRICAL EQUIPMENT, FIRE ALARM DEVICES, LIGHTING DEVICES AND ASSOCIATED FEEDERS AND BRANCH CIRCUITS IN THIS ROOM SHALL REMAIN UNLESS OTHERWISE NOTED.



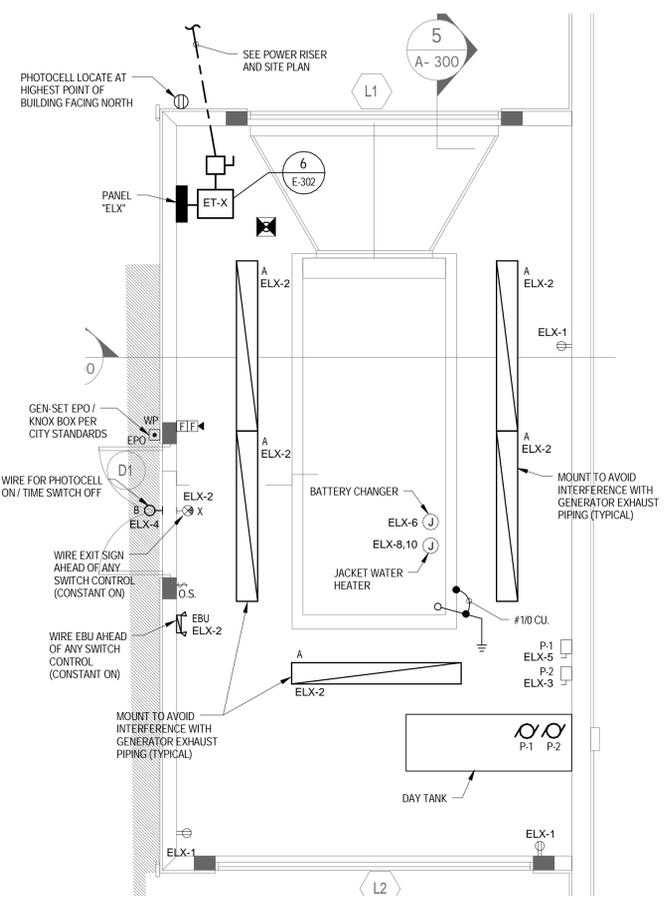
1 FP&L VAULT / MAIN ELECTRICAL ROOM / GENERATOR ROOM ENLARGEMENT PLANS - PROPOSED
 SCALE: 1/4" = 1'-0"



3 FUEL STORAGE TANK DETAILS
 SCALE: 1/4" = 1'-0"

FITTING	DESCRIPTION	LENGTH	REMARKS
1	1/2" NPT FUEL SUPPLY DROP TUBE	34'-1/2"	
2	1/2" NPT FUEL RETURN DROP TUBE	34'-1/2"	
3	2" NPT LOW FUEL SWITCH	24'-3/4"	LOW LEVEL SWITCH - MADISON COMPANY PIN M7000, EQ. #682 CONNECTED TO AND ANNUNCIATED BY ITEM #13.
4	1-1/2" NPT ROCHESTER FUEL GAUGE	31'-1/2"	
5	2" NPT NORMAL VENT		
6	6" NPT EMERGENCY VENT		
7	1/2" NPT BASIN DRAIN		
8	4" NPT FDEP PKG 7-1/2 GALLON SPILL / FILL BUCKET		EQ. #345
9	2" NPT HIGH FUEL SWITCH	3'-5/16"	HIGH LEVEL SWITCH - MADISON COMPANY PIN M7000, EQ. #682 CONNECTED TO AND ANNUNCIATED BY ITEM #13.
10	2" NPT TOP-MOUNT BASIN SWITCH		LEAK DETECTION SWITCH - MADISON COMPANY PIN M7000, EQ. #682 CONNECTED TO AND ANNUNCIATED BY ITEM #13.
11	TANK		EQ. #497
12	ANCHOR BOLT 5" DIA. STAINLESS STEEL	6"	MINIMUM 4" EMBEDMENT DEPTH
13	GENERATOR CONTROL/ALARM PANEL W/ INTEGRAL AUDIBLE/VISUAL ALARM FOR FUEL HIGH LEVEL AND LEAK DETECTION		ANNUNCIATES ITEMS #3, 9 & 10 AND SHALL BE FDEP APPROVED.

NOTE:
 PROPOSED FITTING AND ACCESSORIES FOR BIDDING ONLY. GENERATOR TANK SUPPLIER TO PROVIDE EXACT DETAILED MANUFACTURER DRAWING AND PRODUCT DATA.



- GENERATOR BUILDING NOTES:**
- GENERATOR EXHAUST PIPE NEEDS TO BE COORDINATED TO PASS THROUGH VOIDS IN STRUCTURAL BEAMS AND NOT BELOW BEAMS.
 - WORKING CLEARANCES MINIMUM 4'-0" (TYPICAL 3 SIDES).
 - BOND GENERATOR TO FUEL TANKS, GENERATOR ENCLOSURE AND GENERATOR GROUND. CONNECT TO EXISTING LIGHTNING PROTECTION SYSTEM.
 - CONNECT FIRE ALARM DEVICES TO THE EXISTING RESPECTIVE INITIATING AND INDICATING CIRCUIT LOCATED IN THE EXISTING POLICE DEPARTMENT. PROVIDE ALL REQUIRED WIRING AND HARDWARE NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM, PER NFPA, NEC AND MANUFACTURER'S RECOMMENDATIONS. UPGRADE EXISTING POWER SUPPLIES IF REQUIRED. RE-PHASE EXISTING FACP TO ACCOMMODATE NEW FIRE ALARM ADDRESSES AND RE-TEST AND RE-CERTIFY EXISTING FIRE ALARM SYSTEM.

2 GENERATOR BUILDING ENLARGEMENT PLAN
 SCALE: 1/4" = 1'-0"

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 NOVEMBER 2011

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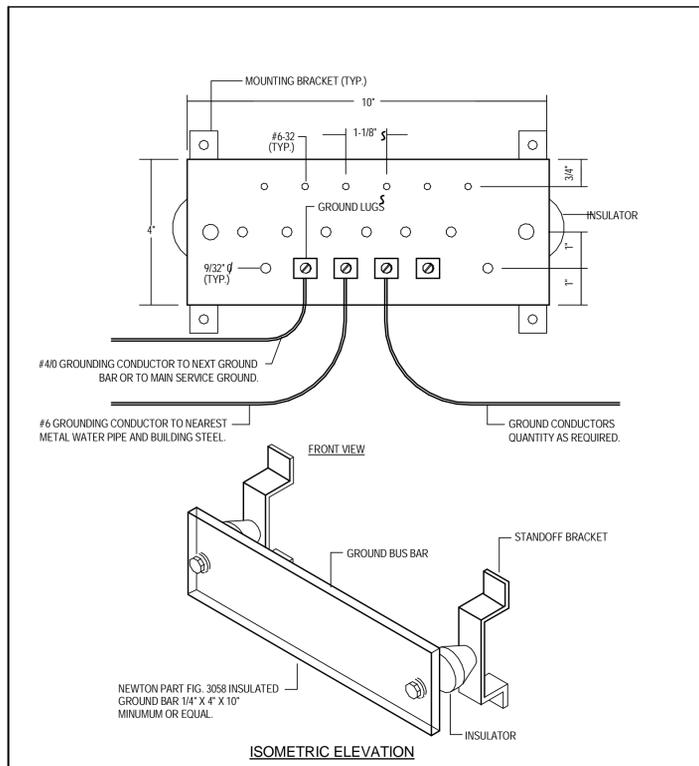
PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET, POMPANO BEACH, FLORIDA, 33060

COMM. NO. 11018.000
 SCALE: As indicated
 DATE: JANUARY 2012
 DRAWN: JRH
 CHECKED: KW
 CADD FILE:

DRAWING TITLE:
ENLARGEMENT FLOOR PLANS

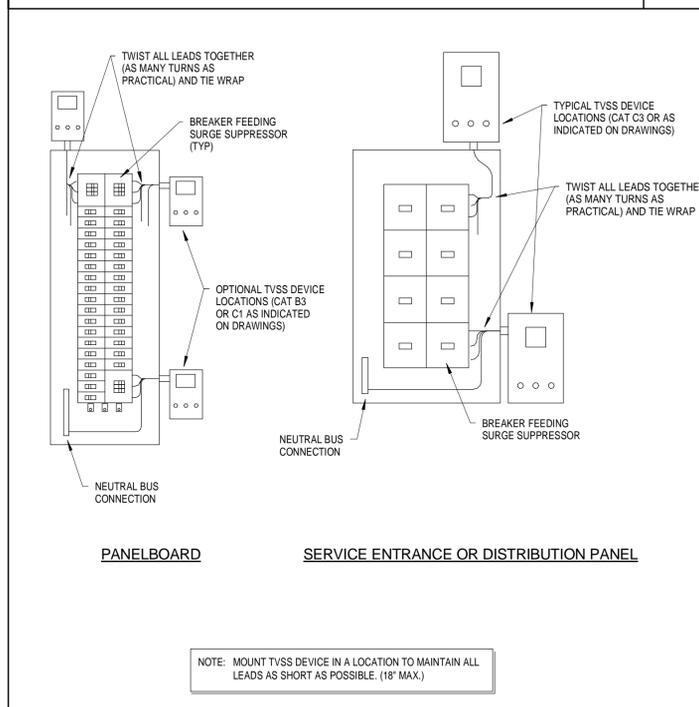
SHEET NO. **E-101**



GROUND BAR DETAIL

No Scale

3



TVSS EXTERIOR MOUNT INSTALLATION

No Scale

5

1 and 2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Gypsum Wall Assemblies using TREMstop IA.



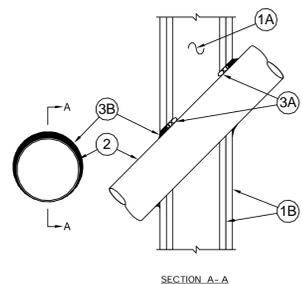
WL 1158

System No. WL-1158

December 7, 2001
F Ratings - 1 and 2 Hr. (See Item 1)
T Rating - 0 Hr.
L Rating at Ambient - Less Than 1 CFM/sq. ft.



(Drawing not to scale)



TREMCO IS THE BASIS OF DESIGN, OR APPROVED EQUAL.

- Wall Assembly** The 1 or 2 hour fire-rated gypsum board stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board*** One or two layers of nom 1/2 or 5/8 in. (13 or 16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 15-1/8 in. (384 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

 - Steel Sleeve** - (Optional) Cylindrical sleeve fabricated from min 0.013 in. (0.330 mm) thick (No. 30 gauge) to max 0.056 in. (1.42 mm) (No. 16 gauge) galv steel sheet and having a min 1 in. (25 mm) lap along the longitudinal seam. Length of sleeve flush with both walls. Sleeve to be installed by coiling the sheet metal to a diam smaller than the through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers.
 - Through Penetrants** One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The pipe, tubing or conduit may be installed at an angle not greater than 45 degrees from the perpendicular. The annular space shall be min 0 (point contact) in. to max 1-7/8 in. (48 mm). The following types and sizes of metallic pipe tubing or conduit may be used:
 - Steel Pipe** Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
 - Copper Tubing** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Firestop System** The firestop system shall consist of the following:
 - Packing Material** - (Optional) - Foam backer rod firmly packed into the opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material*** - (Caulk) Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. When annular space exceeds 1/2 in. (13 mm), the min thickness of fill material is 5/8 in. (16 mm). Additional fill material to be installed such that a min 3/8 in. (10 mm) crown is applied at the pipe/wall interface at the point contact location.

*TREMCO INC. - TREMstop Intumescent Acrylic
*Bearing the UL Classification Mark

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(ULc/UL)

FIRE SAFEGING DETAIL

No Scale

2

2 and 4 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Walls using FYRE-SIL.



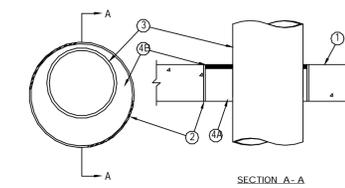
CAJ 1064

System No. 1064

March 16, 2004
F Ratings - 2, 3 & 4 (See Item 4)
T Rating - 0 Hr.



(Drawing not to scale)



TREMCO IS THE BASIS OF DESIGN, OR APPROVED EQUAL.

- Floor or Wall Assembly** - Reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/cu meter) concrete as specified in the Table in Item 4 below. Floor may also be constructed of any UL Classified hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of sleeved opening is 32 in. (813 mm). Max diam of sleeved opening in floors constructed of hollow-core precast concrete units is 7 in. (178mm).
- Steel Sleeve (Optional)** - Nom 32 in. (813 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall. **Steel sleeve may be used in 2 and 3 hr F Rated systems only.**
- Through Penetrants** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. See Table in Item 4 for sizes of penetrants A, B, D and E that may be used. See Item 3C below for size of conduit that may be used. The annular space shall be as specified in Table in Item 4 below. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Cast or ductile iron pipe.
 - Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) steel conduit.
 - Copper Tubing** - Type L (or heavier) copper tubing.
 - Copper Pipe** - Regular (or heavier) copper pipe.
- Firestop System** - The F Rating of the system is dependent upon the type of concrete, thickness of concrete, annular space, fill and packing material thickness, packing material density and penetrant size as shown in the Table below:

F Rating hr	Min Thick Concrete In. (mm)	Annular Space In. (mm)	Min Thick Packing Mat In. (mm)	Min Density Packing Mat pcf (kg/cu meter)	Min Thick Fill Mat In. (mm)	Penetrant Size (Diam or Smaller) In. (mm)		
						D, E (Copper)	A, B, C	A, B, C
(Steel, Iron)								
2	4-1/2 (114)	1/2 to 3-3/8 (13 to 86)	3-1/2 (89)	6 (96)	1/2 (13)	4 (102)	16 (406)	
2	5-1/2 (140)	0 to 1-7/8 (0 to 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	16 (406)	
3	4-1/2 (114)	1/2 to 3-3/8 (13 to 86)	3-1/2 (89)	6 (96)	1/2 (13)	4 (102)	8 (203)	
3	4-1/2 (114)	0 to 2-1/8 (0 to 54)	4-1/4 (108)	4 (64)	1/2 (13)	6 (152)	30 (762)	
4	5-1/2 (140)	0 to 1-7/8 (0 to 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	8 (203)	

- Packing Material** - Min 3-1/2, 4-1/4 or 5 in. (89, 108 or 127 mm) thickness of min 4.0 or 6.0 pcf (64 or 96 kg/cu meter) mineral wool batt insulation firmly packed into opening as a permanent form as specified in the Table above. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
- B. Fill, Void or Cavity Material*** - (Caulk) - Min 1/4 or 1/2 in. (6 or 13 mm) thickness of fill material as specified in the Table above applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete or sleeve, a min 1/2 in. (13 mm) diam bead of fill material shall be applied.
- TREMCO INC** - Fyre-Sil (floors or walls) and Fyre-Sil S.L. (floors)
*Bearing the UL Classification Mark

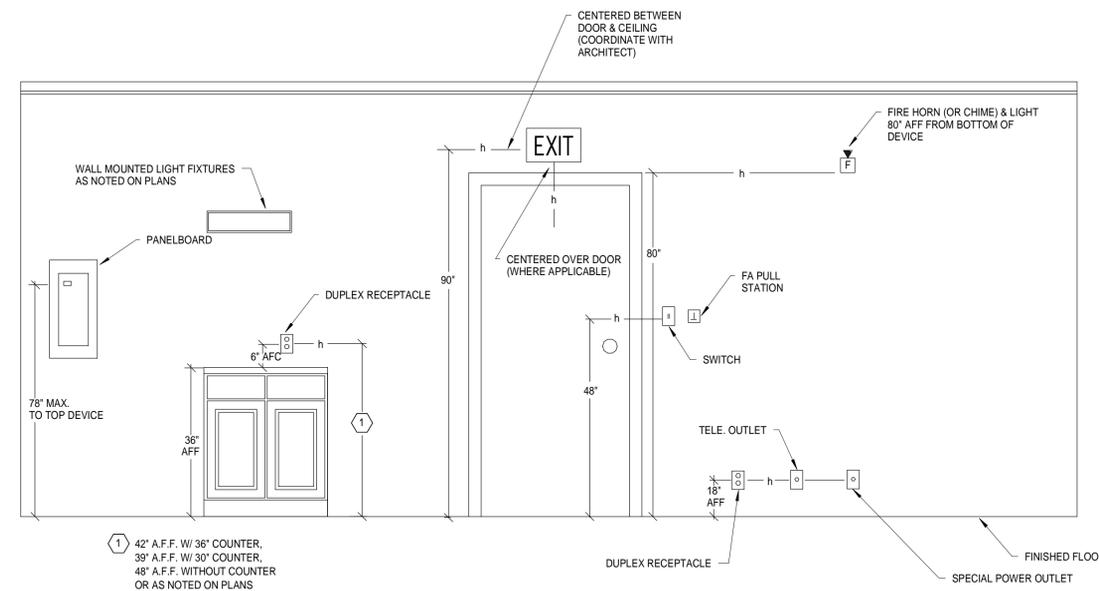
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(ULc/UL)

FIRE SAFEGING DETAIL

No Scale

1



MOUNTING HEIGHTS

No Scale

4

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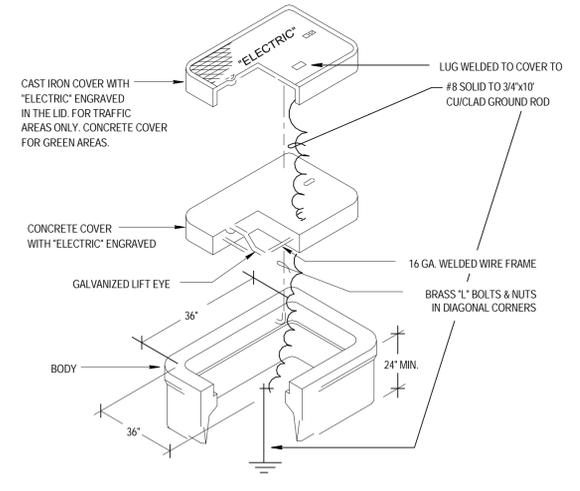
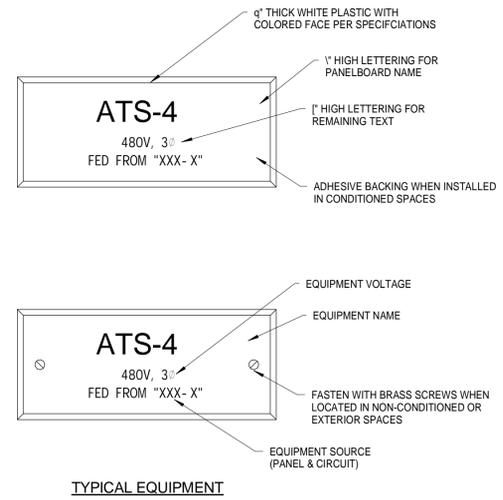
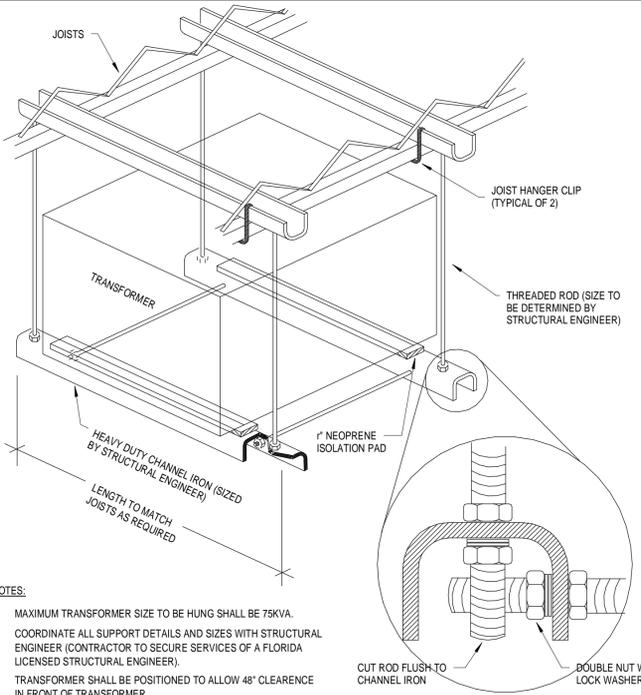
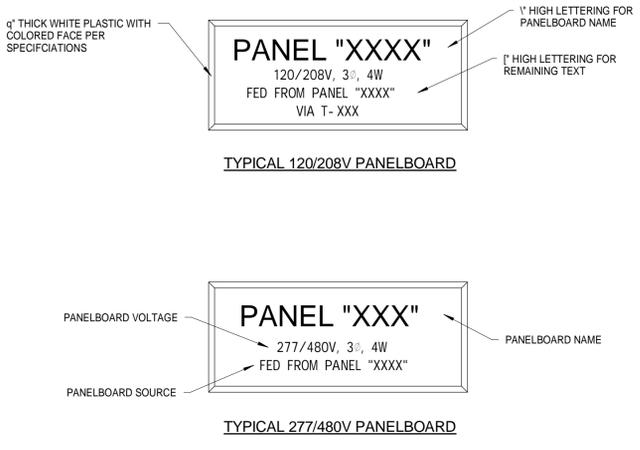
PROJECT NAME:
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PROJECT ADDRESS:
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COMM. NO. 11018.000
SCALE: _____
DATE: JANUARY 2012
DRAWN: JRH
CHECKED: KW
CADD FILE: _____

DRAWING TITLE:
ELECTRICAL DETAILS

SHEET NO. **E-301**

 <p>PULL BOX DETAIL No Scale</p>	<p>NOT USED No Scale</p>	 <p>EQUIPMENT NAMEPLATE No Scale</p>
 <p>TRANSFORMER HANGER No Scale</p>	<p>NOT USED No Scale</p>	 <p>PANELBOARD NAMEPLATE No Scale</p>

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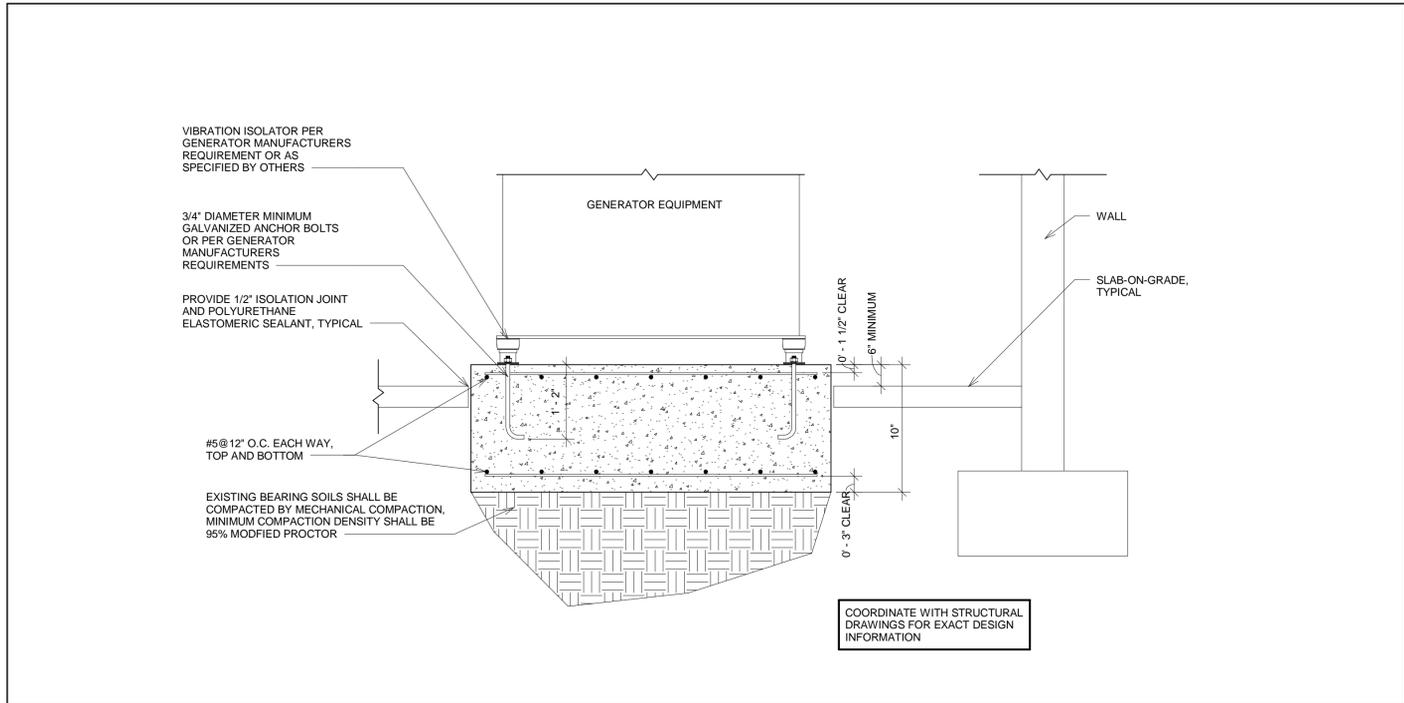
PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET, POMPANO BEACH, FLORIDA, 33060

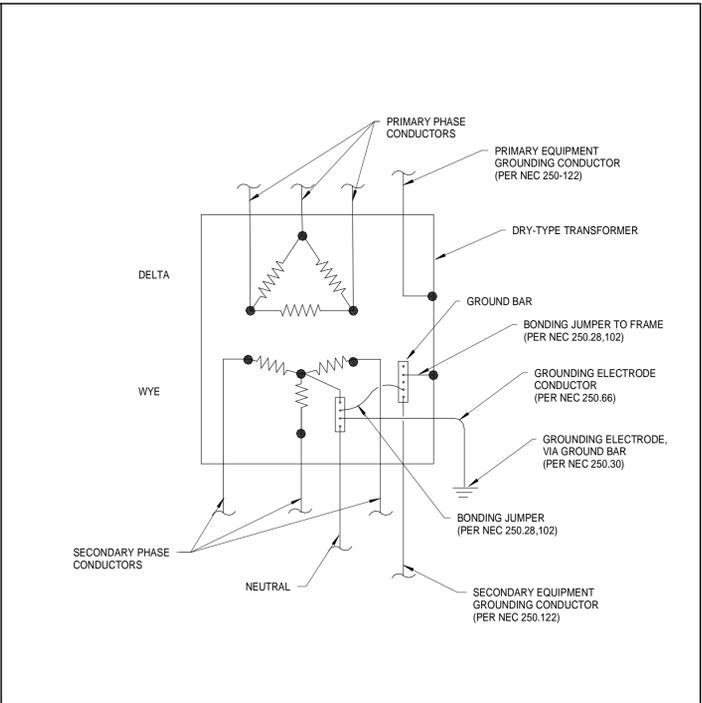
COMM. NO. 11018.000
SCALE: _____
DATE: JANUARY 2012
DRAWN: JRH
CHECKED: KW
CADD FILE: _____

DRAWING TITLE:
ELECTRICAL DETAILS

SHEET NO. **E-302**



SECTION THRU GENERATOR PAD.
SCALE: 3/4" = 1'-0"

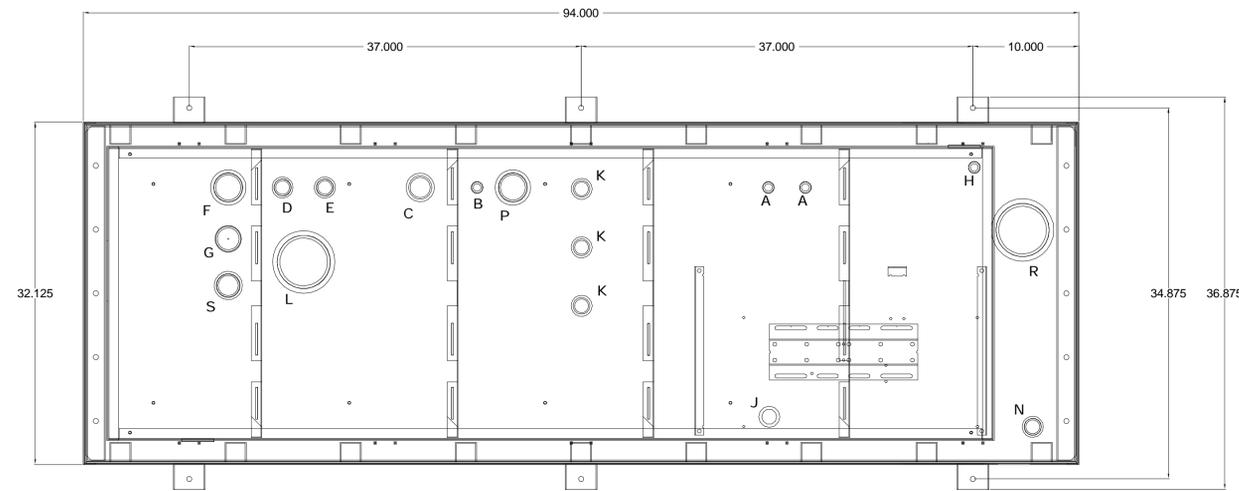


STEP DOWN TRANSFORMER GROUNDING
(3 PHASE, 3 WIRE, DELTA PRIMARY / 3 PHASE, 4 WIRE, WYE SECONDARY)

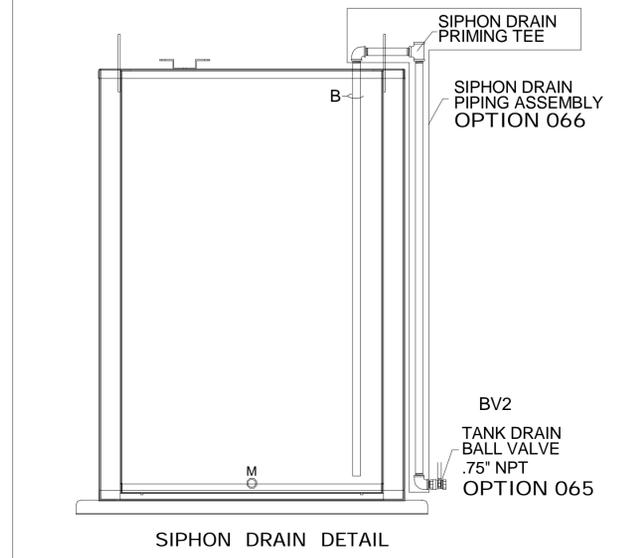
2

1

PORT	DESCRIPTION	SIZE
A	ENGINE SUPPLY DROP TUBE (1.000 CLEARANCE TO BOTTOM)	0.75" NPT, MALE
B	SIPHON DRAIN DROP TUBE (.250 CLEARANCE TO BOTTOM)	0.75" NPT, MALE
C	TANK INLET DROP TUBE OPTION 125	1.50" NPT, MALE
D	ENGINE RETURN PORT	1.00" NPT, FEMALE
E	EXTRA PIPE FLANGE	1.00" NPT, FEMALE
F	TANK VENT PORT	2.00" NPT, FEMALE
G	MANUAL FILL PORT DROP TUBE	2.00" NPT, MALE
H	HAND PUMP MOUNTING PORT	0.75" NPT, FEMALE
J	PUMP CONNECTION DROP TUBE (1.000 CLEARANCE TO BOTTOM)	1.50" NPT, MALE
K	LEVEL FLOATSWITCH MTG. PORT	1.00" NPT, FEMALE
L	EMERGENCY TANK VENT OPTION 064	4.00" NPT, FEMALE
M	SECONDARY TANK DRAIN PORT	0.375" NPT, FEMALE
N	LEAK SENSOR PORT	1.00" NPT, FEMALE
P	EXTRA PORT	2.00" NPT, FEMALE
R	SEC. CONTAINMENT EMERGENCY VENT OPTION 064	4.00" NPT, FEMALE
S	SIGHT GAUGE MOUNTING PORT	1.50" NPT, FEMALE
T	TANK HEATER MOUNTING PORT	2.00" NPT, FEMALE

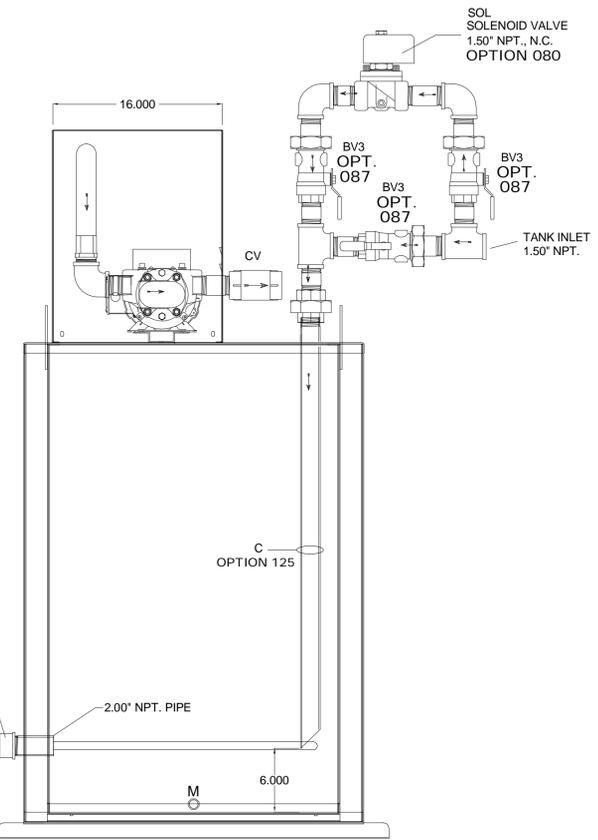


TOP VIEW



SIPHON DRAIN DETAIL

INLET ASSEMBLY SHIPPED LOOSE



RIGHT VIEW

PRIMARY EMERGENCY VENT CAP 4.00" NPT. OPTION 064

RETURN PUMP MOTOR

SECONDARY EMERGENCY VENT CAP 4.00" NPT. OPTION 064

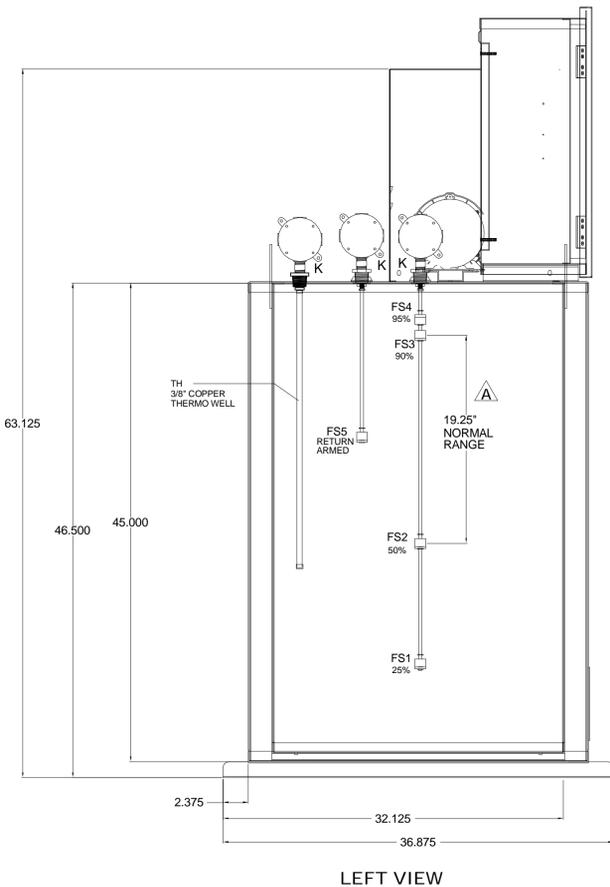
RETURN PUMP

Reliant 400

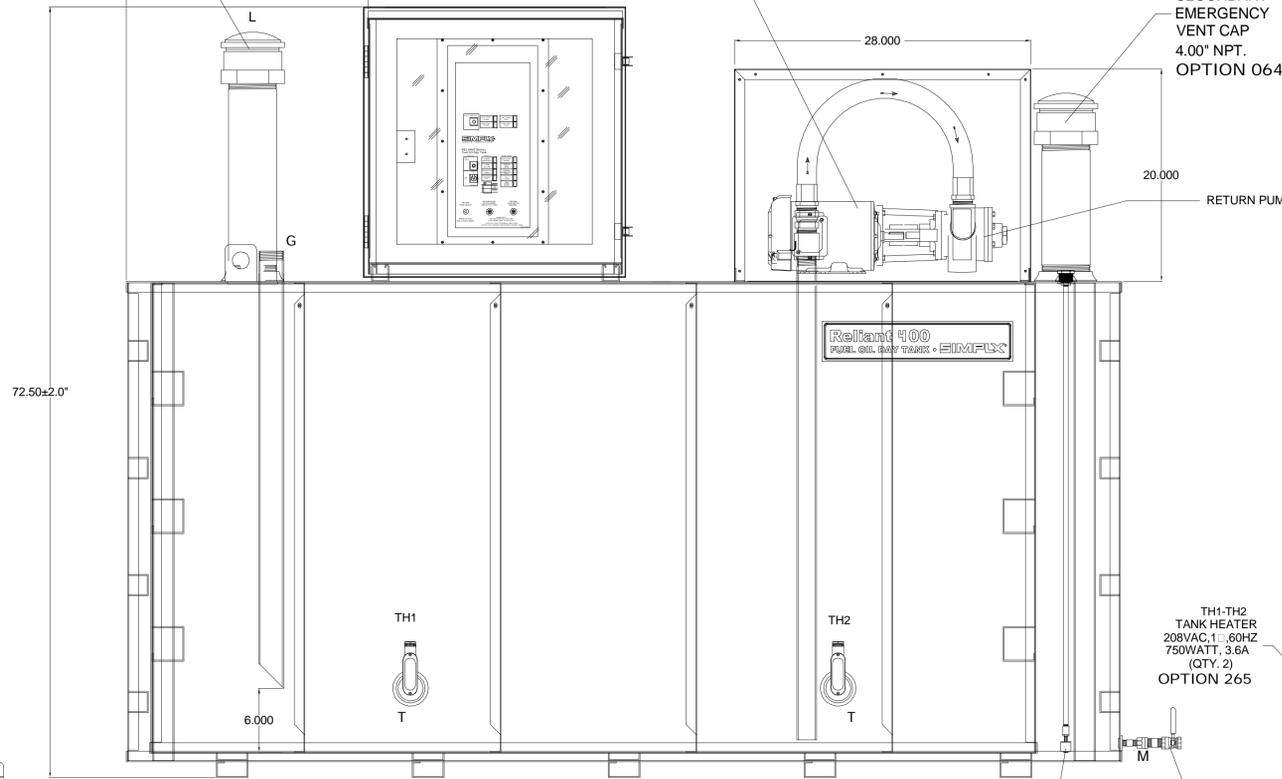
LS SECONDARY CONTAINMENT LEAK SENSOR OPTION 191

TH1-TH2 TANK HEATER 208VAC, 1.60HZ 750WATT, 3.6A (QTY. 2) OPTION 265

BV1 SECONDARY CONTAINMENT DRAIN BALL VALVE, 0.375" OPTION 192



LEFT VIEW



FRONT VIEW

NOTES:

- CONSTRUCTION: 12 GA HRS
- LISTING: UL 142
- RATING: ATMOSPHERIC TANK TESTED TO 3 PSI
- FINISH: TANK PRIMED AND FINISH PAINTED 61 GRAY
- DUE TO SYSTEM COMPLEXITY, SOME COMPONENTS MAY NOT BE VISIBLE IN ALL VIEWS
- ALL DIMENSIONS ±.125"
- ALL PIPING SCHEDULE 40, CARBON STEEL
- CONTROLLER ENCLOSURE, NEMA 3R
- 400 GALLON CAPACITY
- 5 GPM SUPPLY PUMP, CAST-IRON CONSTRUCTION, 3/4HP, 115V/1PH
- 7 GPM SUPPLY PUMP, CAST-IRON CONSTRUCTION, 3/4HP, 115V/1PH

1 DAY TANK DETAILS (PLAN)
1 1/2" = 1'-0"

OPTIONS INSTALLED

- 063- VENT CAP (SHIPPED LOOSE)
- 064- EMERGENCY TANK VENT 4.00" NPT
- 065- TANK DRAIN BALL VALVE
- 066- SIPHON DRAIN PIPING ASSEMBLY
- 080- SOLENOID VALVE, N.C. 115VAC, 1.50" NPT.
- 087- MANUAL SHUT-OFF BALL VALVE 1.0"NPT
- 125- TANK INLET DROP TUBE, 1.50" NPT.
- 180- WEATHERPROOF PLEXI GLASS DOOR
- 190- SECONDARY CONTAINMENT
- 191- FLOATSWITCH IN SECONDARY CONTAINMENT
- 192- SECONDARY CONTAINMENT DRAIN BALL VALVE
- 270- POWER AVAILABLE PILOT LIGHT
- 280- PUMP MODE SELECTOR SWITCH
- 311- LOW FUEL LEVEL ALARM
- 312- HIGH FUEL LEVEL ALARM
- 325- HIGH FUEL LEVEL PUMP STOP
- 340- PUMP RUNNING LIGHT
- 390- RETURN PUMP & CONTROLLER
- 1122- RETURN MOTOR, 2 H.P., 208VAC, 3.1.60HZ

OWNERSHIP

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CIVIL ENGINEERING / SURVEYING

K&S CONSULTING ENGINEERS
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 STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028

Stephen F. Rollin, P.E.
 Florida License #36428

PERMIT PACKAGE
 NOVEMBER 2011

REVISIONS:

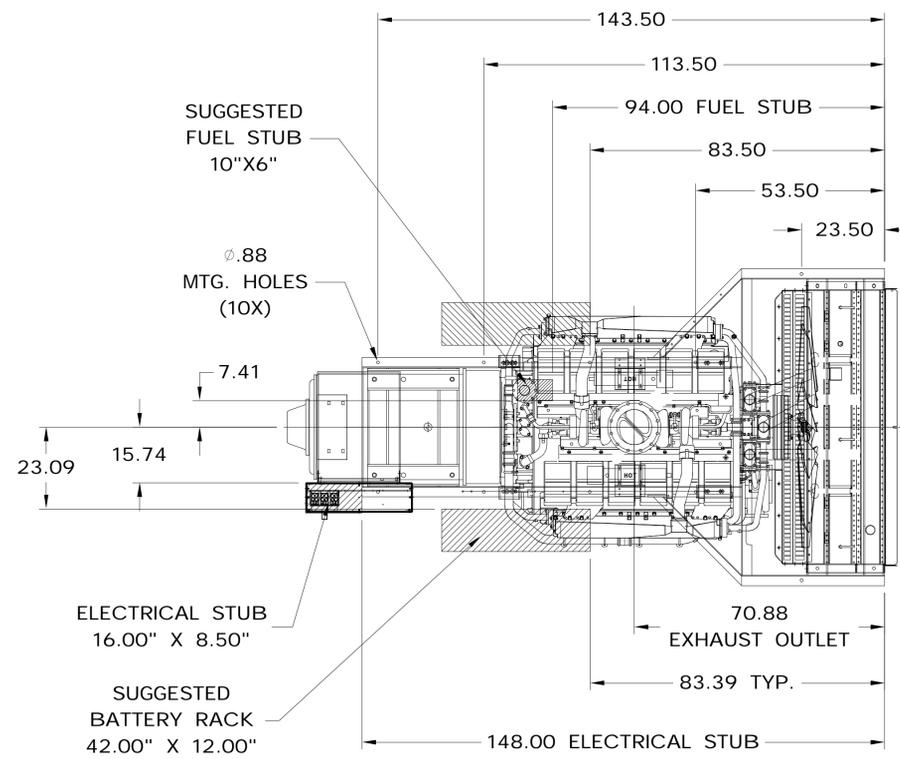
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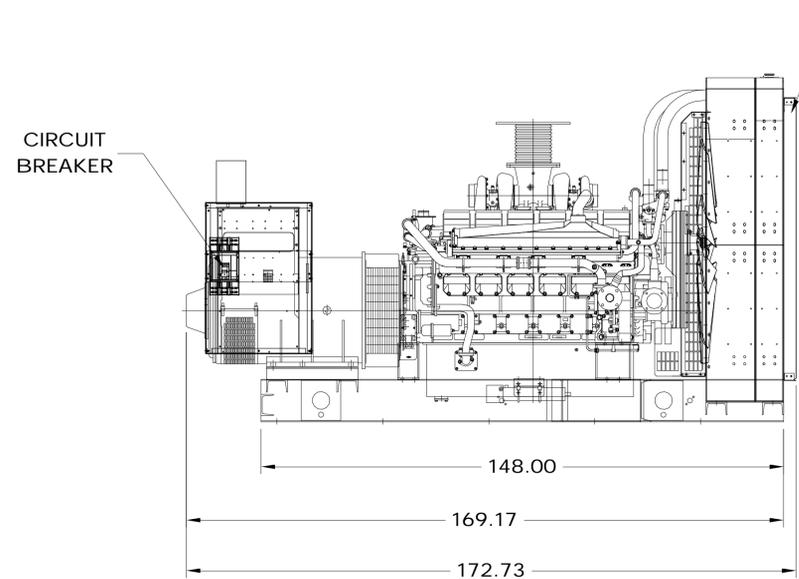
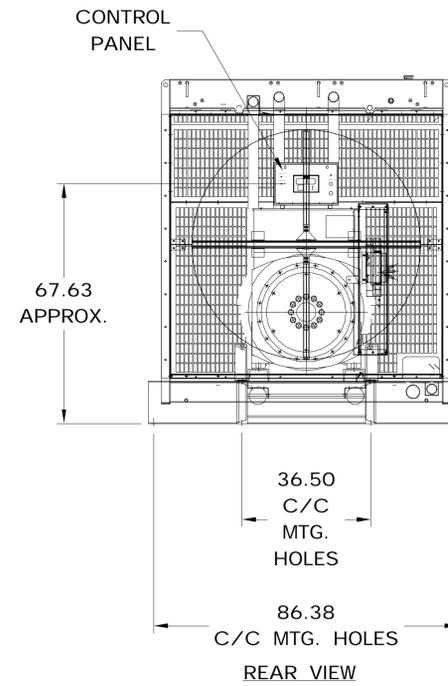
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 SCALE: 1 1/2" = 1'-0"
 DATE: JANUARY 2012
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 CHECKED: KW
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DRAWING TITLE:
ELECTRICAL DETAILS

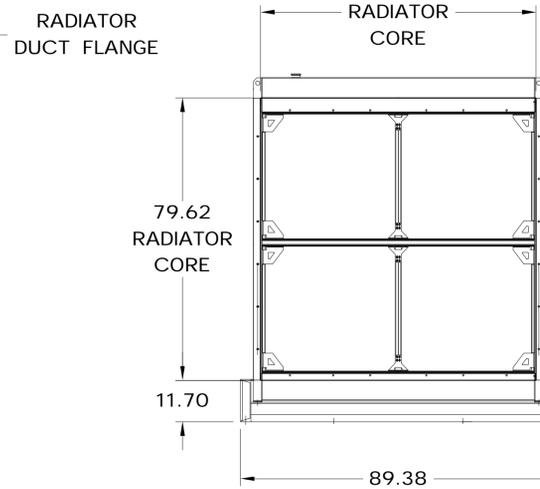
SHEET NO. **E-304**



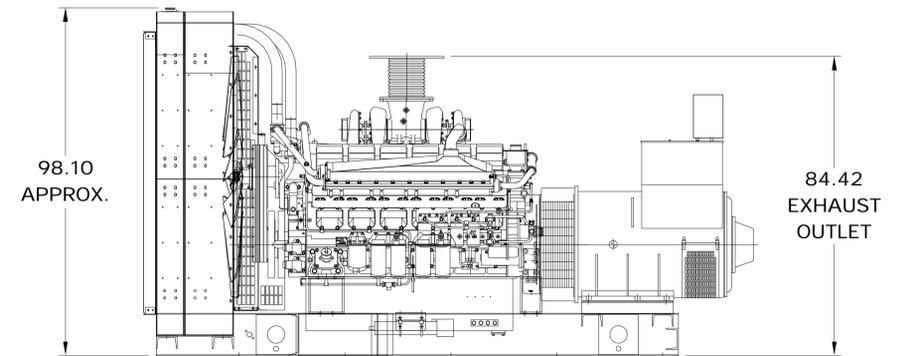
PLAN VIEW



RIGHT VIEW



FRONT VIEW



LEFT VIEW

① GENERATOR DETAILS (PLAN)
1/2" = 1'-0"



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STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028

Stephen F. Rollin, P.E.
Florida License #36428

PERMIT PACKAGE
NOVEMBER 2011

REVISIONS:

PROJECT NAME:
POMPAÑO BEACH
PUBLIC SAFETY BLDG.
EMERGENCY
GENERATOR SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET,
POMPAÑO BEACH,
FLORIDA, 33060

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DETAILS

SHEET NO. E-305

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	LAMPS		VA	REMARKS	
					QTY	TYPE			
A	8'-0" LONG SURFACE CEILING MOUNTED FLUORESCENT INDUSTRIAL STYLE FIXTURE	COLUMBIA LIGHTING	LUN-8-2-96T8-E-U-PP	120V	2	F96 T8	200		
B	EXTERIOR HID WALL PACK FIXTURE	KENDALL LIGHTING	H99SD-PP-DB-70M-1-120-OR	120V	1	70W MH HPF	75	DARK BRONZE FINISH	
EBU	EMERGENCY BATTERY UNIT WITH INTEGRAL LAMPS	DUAL LITE (HUBBELL LIGHTING, INC.)	CVEC100N-12V-V	120V	1	100W T5	100	WHITE FINISH	
X	LED EXIT SIGN FIXTURE WITH INTEGRAL EMERGENCY BATTERY	DUAL LITE (HUBBELL LIGHTING, INC.)	SE-S-R-W-E	120V	NA	RED LED	10	WHITE FINISH	

NOTE:
1. ALL LIGHTING FIXTURE WITH ELECTRONIC BALLAST SHALL COMPLY WITH NEC 2008 FOR DISCONNECTING MEANS OF BALLAST LIGHTING FIXTURES.
2. HALF SHADED LIGHTING FIXTURES INDICATES FIXTURE IS ON AN EMERGENCY LIGHTING CIRCUIT.

BRANCH CIRCUIT WIRING SCHEDULE			
BREAKER SIZE	THHN CONDUCTOR	GROUND	CONDUIT
20A	12	12	3/4"
30A	10	10	3/4"
35A	10	10	3/4"
40A	8	10	3/4"
45A	8	10	3/4"
50A	8	10	3/4"
60A	6	10	3/4"
80A	4	8	3/4"

NOTE:
1. PROVIDE A CONDUCTOR PER BREAKER POLE. THESE ARE THE MINIMUM SIZES REQUIRED FOR EACH CIRCUIT. CONTRACTOR TO MAKE ALL THE NECESSARY FIELD ADJUSTMENTS TO COMPENSATE FOR VOLTAGE DROP.
2. ALL 120V, 20A BRANCH CIRCUITS OVER 80'-0" IN LENGTH SHALL BE #10 AWG CU. CONDUCTORS MINIMUM TO ACCOMMODATE VOLTAGE DROP. WHERE A CONFLICT EXISTS BETWEEN THIS REQUIREMENT AND CONDUCTOR SIZES INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS, THIS REQUIREMENT SHALL TAKE PRECEDENCE.
3. IN GENERAL, VOLTAGE DROP FOR ANY BRANCH CIRCUIT SHALL NOT EXCEED 3%. VOLTAGE DROP FOR ANY FEEDER SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS THESE REQUIREMENTS, THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTORS AND RACEWAY AS REQUIRED.

- ### LUMINAIRES NOTES
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LUMINAIRES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LUMINAIRES CATALOG NUMBER. THE CONTRACTOR SHALL VERIFY THE DEPTH OF ALL RECESSED LUMINAIRES WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO ORDERING LUMINAIRES. ANY DISCREPANCIES THAT WOULD CAUSE RECESSED LUMINAIRES NOT TO FIT INTO CEILING SHALL BE REPORTED TO THE ARCHITECT PRIOR TO ORDERING LUMINAIRES.
 - LUMINAIRES RECESSED IN FIRE RATED CEILINGS SHALL BE PROVIDED WITH APPROVED FIRE RATED ENCLOSURE WITH A FIRE-RATING EQUAL TO THAT OF THE CEILING. PROVIDE A MINIMUM OF 3" CLEARANCE FROM SIDES AND TOP OF RECESSED LUMINAIRES.
 - VERIFY THE MOUNTING HEIGHT OF ALL WALL MOUNTED LUMINAIRES WITH ARCHITECT.
 - FLUORESCENT LUMINAIRES SHALL BE PROVIDE WITH SOLID STATE ELECTRONIC BALLAST @ A P.F. OF 1.0.
 - CATALOG NUMBER SPECIFIES STYLE, TYPE AND STANDARD OF LIGHT FIXTURE QUALITY.
 - IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES AND THE CATALOG NUMBER LISTED AND THE LAMPS LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
 - MINIMUM FLUORESCENT LAMP COLOR TEMPERATURE SHALL BE 3500K.
 - PROVIDE PROGRAM RAPID START BALLASTS FOR FLUORESCENT FIXTURES IN AREAS WITH OCCUPANCY SENSOR CONTROL.

Branch Panel: ELX

Location: GENERATOR BLDG. **Volts:** 120/208 Wye **A.I.C.** 10,000A
Supply From: ET-X **Phases:** 3 **Mains Type:** 60A / 3P MCB
Mounting: Surface **Wires:** 4 **Mains:** 100 A
Enclosure: Type 1 **MCB Rating:** 100 A

Notes:

CIRCUIT DESCRIPTION	TRIP	POL	E	CKT	A		B		C		CKT	POLE	TRIP	CIRCUIT DESCRIPTION
					600	1110	1700	75	0 VA	500				
RECEPTACLE	20 A	1	1	1	600	1110					2	1	20 A	LIGHTING
FUEL PUMP (P-2)	20 A	1	3				1700	75			4	1	20 A	LIGHTING
FUEL PUMP (P-1)	20 A	1	5						0 VA	500	6	1	20 A	BATTERY CHARGER
FUEL CONTROL SYSTEM PANEL	20 A	1	7	500	1500						8	2	30 A	JACKET WATER HEATER
Spare	0 A	1	9				0 VA	1500			10	--	--	--
Spare	0 A	1	11						0 VA	0 VA	12	1	0 A	Spare
Spare	0 A	1	13	0 VA	0 VA						14	1	0 A	Spare
Spare	0 A	1	15				0 VA	0 VA			16	1	0 A	Spare
Spare	0 A	1	17						0 VA	0 VA	18	1	0 A	Spare
Spare	0 A	1	19	0 VA	0 VA						20	3	30 A	TVSS
Spare	0 A	1	21				0 VA	0 VA			22	--	--	--
Spare	0 A	1	23						0 VA	0 VA	24	--	--	--
Total					3710 VA		3275 VA		500 VA					
					34 A		31 A		4 A					
Load Classification					Connected Load		Demand Factor		Estimated					Panel Totals
Lighting					1185 VA		100.00%		1185 VA					Total Conn. Load: 7485 VA
Motor					1700 VA		125.00%		2125 VA					Total Est. Demand: 7910 VA
Other					500 VA		100.00%		500 VA					
Power					4100 VA		100.00%		4100 VA					Total Conn.: 21 A
														Total Est. Demand: 22 A



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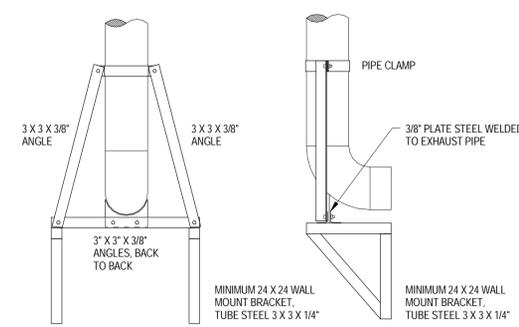
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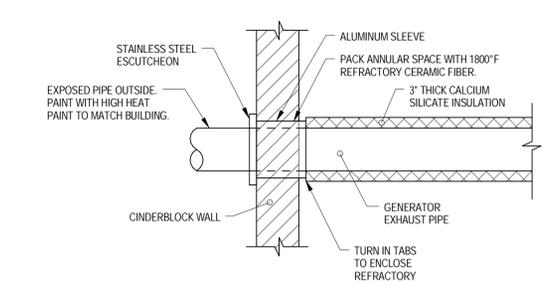
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ELECTRICAL SCHEDULES

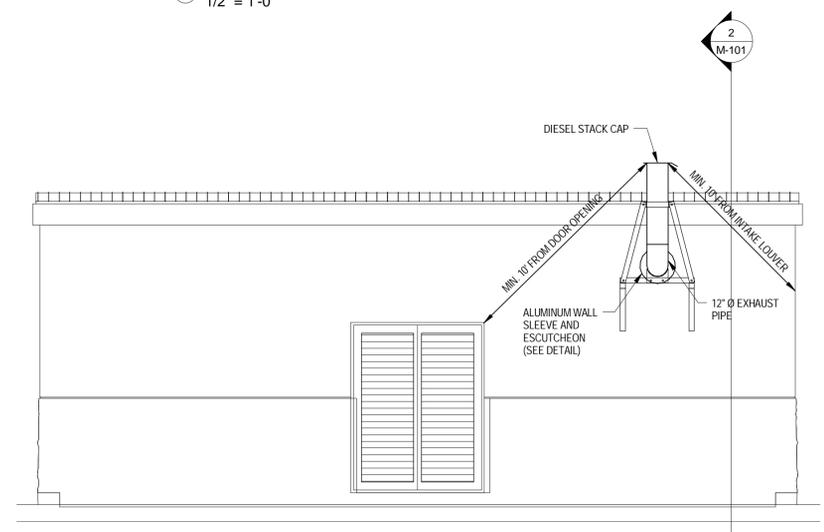
SHEET NO. **E-401**



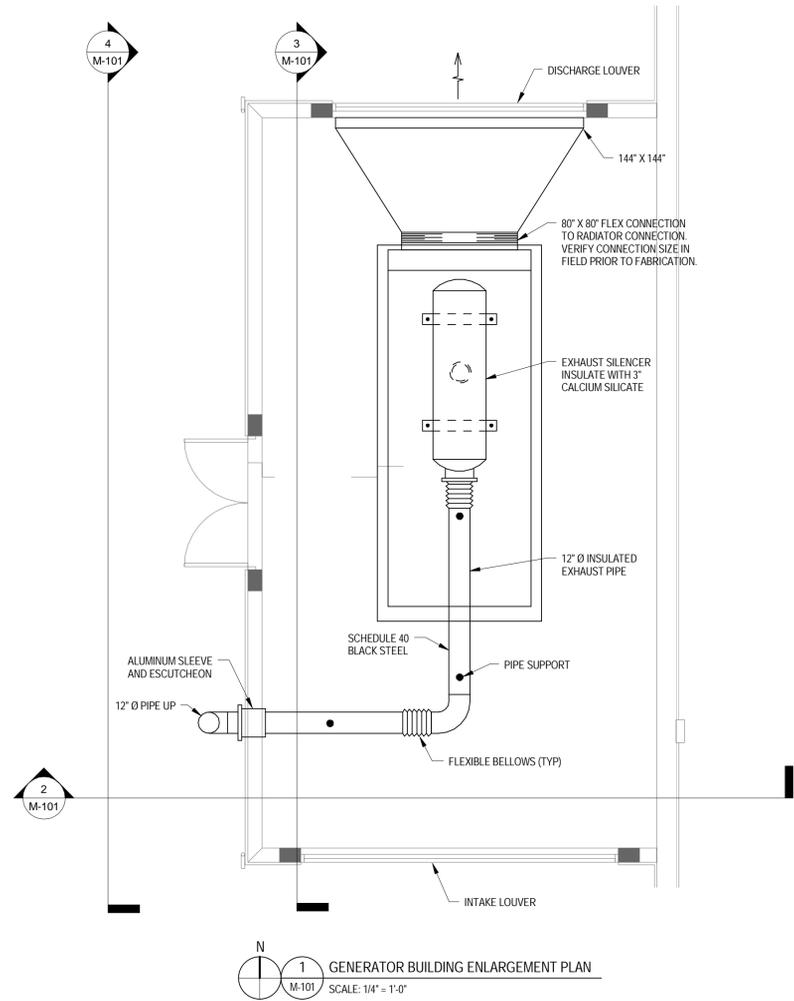
6 PIPE SUPPORT DETAIL
1/2" = 1'-0"



5 MECHANICAL DETAILS
1/2" = 1'-0"

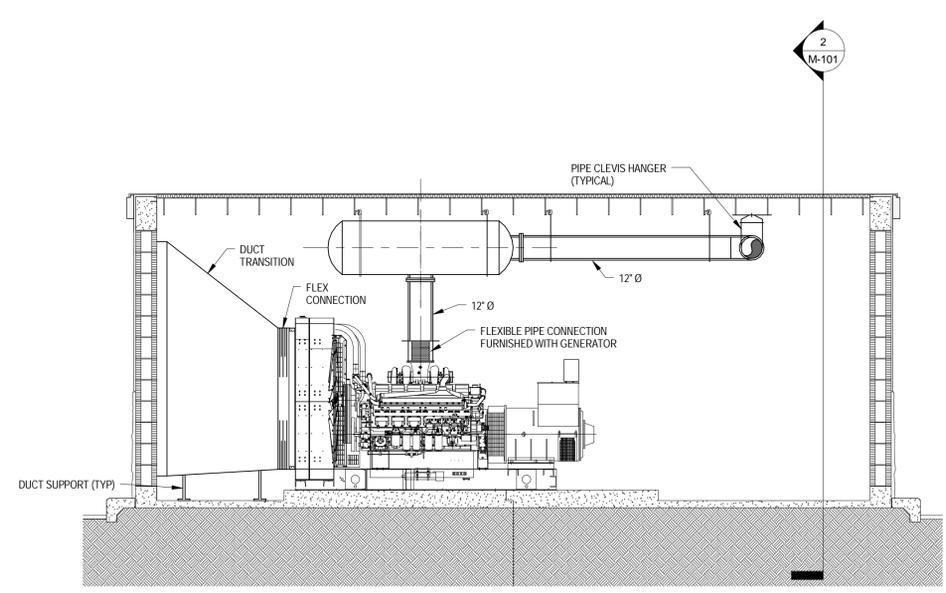


4 SECTION 3
1/4" = 1'-0"

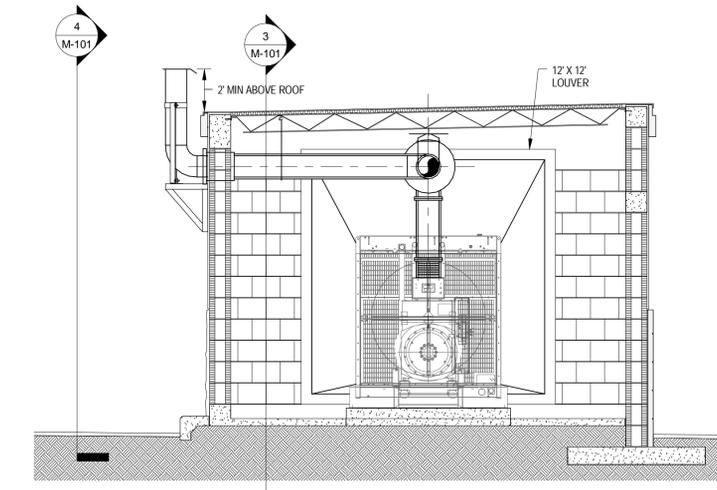


1 GENERATOR BUILDING ENLARGEMENT PLAN
SCALE: 1/4" = 1'-0"

SEE STRUCTURAL DRAWINGS FOR ENGINEERED SELECTIONS OF STRUCTURAL SUPPORTS, ATTACHMENTS, HANGERS, ETC. THESE COMPONENTS ARE SHOWN DIAGRAMMATICALLY ONLY.



3 SECTION 2
1/4" = 1'-0"



2 SECTION 1
1/4" = 1'-0"

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POMPAÑO BEACH,
FLORIDA, 33060

COMM. NO. 11018.000
SCALE: As indicated
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DRAWN: JRH
CHECKED: DHA
CADD FILE:

DRAWING TITLE:
ENLARGED FLOOR PLAN AND ELEVATIONS

PLUMBING SPECIFICATIONS

1.00 - GENERAL PROVISIONS

- 1.1 PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING FUEL OIL STORAGE AND DELIVERY SYSTEM.
- 1.2 CODES AND STANDARDS: ALL PLUMBING WORK SHALL BE IN STRICT COMPLIANCE WITH THE FLORIDA PLUMBING CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- 1.3 ALL PLUMBING WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- 1.4 CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.
- 1.5 CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION.
- 1.6 CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE DAMAGED EQUIPMENT AND/OR MATERIAL.
- 1.7 PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE. PROVIDED PLASTIC COATED RING ON HANGERS FOR COPPER PIPING TO PROVIDE DIELECTRIC ISOLATION.
- 1.8 PROVIDE DIELECTRIC UNIONS OR FLANGES BETWEEN COPPER AND STEEL PIPING AND BETWEEN BRASSWARE AND STEEL. DO NOT USE STEEL AND COPPER PIPING IN THE SAME SYSTEM WITHOUT SUCH ISOLATION.
- 1.9 PROVIDE REDUCING FITTINGS (REDUCING BUSHINGS SHALL NOT BE USED) WHERE CHANGES IN PIPE SIZES OCCUR.
- 1.10 CONTRACTOR SHALL SUPPLY AND INSTALL ALL INDICATED SERVICES THROUGHOUT THE BUILDING AND MAKE NEW CONNECTIONS TO EXISTING BUILDING SERVICES. CONTRACTOR SHALL SUPPLY AND INSTALL FITTINGS, VALVING AND TRIM AND MAKE READY FOR USE ALL EQUIPMENT, ETC.
- 1.11 SEE ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.

2.00 - BASIC MATERIALS AND METHODS

- 2.1 GENERAL: PIPING AND EQUIPMENT SHALL BE LOCATED AS SHOWN ON DRAWINGS. COORDINATE PIPING WITH OUTSIDE UTILITIES. PROVIDE VALVES AND SPECIALTIES AS INDICATED AND REQUIRED.
- 2.2 ABOVE GROUND PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH THREADED FITTINGS.
- 2.3 UNDERGROUND PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH THREADED FITTINGS. CONTAINMENT PIPING FOR DOUBLE-WALL SYSTEM SHALL BE FIBERGLASS. ACCEPTABLE MANUFACTURERS:
 - A. SMITH FIBERGLASS PRODUCTS, INC.
 - B. AMERON, BONDSSTRAND FIBERGLASS PIPE
 - C. INTERGY, INC., RICWILL PIPING SYSTEMS
- 2.4 PROVIDE UNIONS OR FLANGES IN ALL FUEL OIL SUPPLY / RETURN LINES AT EACH PIECE OF EQUIPMENT, SPECIALTY VALVE, AND AT OTHER LOCATIONS REQUIRED FOR READY DISCONNECT.

3.00 - VALVES AND COCKS

- 3.1 VALVES 2" AND SMALLER SHALL BE BALL VALVES, 150 PSI SWP, 400 PSI WOG, FULL-PORT BALL, BRONZE TRIM, CAST BRONZE BODY, CHROMIUM PLATED BRASS BALL, BRONZE NON-BLOWOUT STEM, TEFLON SEAT, DOUBLE O-RING STEM SEALS, ZINC-COATED STEEL HANDLE WITH PLASTIC COATED HAND GRIP, 90 DEGREE OPERATION FROM FULL OPEN TO TIGHT SHUT-OFF - NIBCO, STOCKHAM, OR EQUAL.
- 3.2 CHECK VALVES, ROUGH BRASS, REGRINDING BRONZE DISC - NIBCO, STOCKHAM, OR EQUAL.

4.00 - FUEL MONITORING & LEAK DETECTION SYSTEM

- 4.1 GENERAL: THE FUEL MONITORING AND LEAK DETECTION SYSTEM SHALL BE CAPABLE OF PERFORMING REMOTE MONITORING, DIAGNOSTICS, INVENTORY, AND TESTING. THE MICRO-PROCESSOR-CONTROLLED SYSTEM SHALL GENERATE REPORTS WHICH INCLUDE FUEL VOLUME AND TEMPERATURE. THE SYSTEM SHALL, BOTH ON DEMAND AND AT ADJUSTABLE INTERVALS, PERFORM DIAGNOSTIC LEAK DETECTION TESTS IN COMPLIANCE WITH FEDERAL EPA REGULATIONS 40 CFR PART 280. THE FUEL MONITORING SYSTEM SHALL BE UL LISTED FOR THE APPLICATION. THE ENTIRE SYSTEM SHALL BE THIRD PARTY TESTED.
- 4.2 CONSOLE: THE REMOTE WALL-MOUNTED CONSOLE PANEL SHALL HAVE A LCD DISPLAY FOR INVENTORY, LEAK DETECTION, AND ALARM INFORMATION. THE CONSOLE PANEL SHALL CONTAIN A PRINT OUT OF ALL REPORTS.
- 4.3 MONITORING PROBES: PROVIDE SOFTWARE, MAGNETOACTIVE-TYPE PROBE AND CONTROL WIRING TO PERFORM THE INVENTORY IN-TANK MONITORING.
- 4.4 PERFORMANCE CRITERIA: THE SYSTEM SHALL BE CAPABLE OF MEASURING AND REPORTING FUEL STATUS, ALARMS SHALL WARN OF LEAKS, OVERFILL, HIGH LEVEL, HIGH WATER LEVEL, AND LOW INVENTORY.
- 4.5 ALARM MONITORING: PROVIDE ALARM PROBES, SOFTWARE, CONSOLE HARDWARE MODULE, AND CONTROL WIRING TO PERFORM THE FOLLOWING ALARM FEATURES:
 - A. INTERSTITIAL PROBE TO SENSE FUEL OR WATER BETWEEN THE DUAL-WALL FUEL TANK. (1 SENSOR)
 - B. SUMP SENSOR TO DETECT LIQUID IN THE SUMP. (1 SENSOR)
 - C. CONTAINMENT PIPE PROBE OR SENSOR.
- 4.6 MANUFACTURER AND MODEL NUMBER:
 - A. VEEDER-ROOT TLS-350
 - B. PETROVEND SITE SENTINAL
 - C. OMNITEC OEL8000 BY XERXES

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	- CONNECTION, TOP
	- CONNECTION, BOTTOM
	- ELBOW, TURNED DOWN
	- ELBOW, TURNED UP
	- TEE, TURNED UP
	- TEE, TURNED DOWN
	- CAP
	- DIRECTION OF FLOW
	- CONNECT TO EXISTING
	- DEMOLISH TO POINT INDICATED
	- REVISION REFERENCE
	- DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	- ABOVE FINISH FLOOR
CONT	- CONTINUATION
DN	- DOWN
DWG	- DRAWING
EXIST	- EXISTING
F	- DEGREE FAHRENHEIT
G	- GAS
GPH	- GALLONS PER HOUR
GPM	- GALLONS PER MINUTE
KW	- KILOWATT
LBS	- POUNDS
NC	- NORMALLY CLOSED
NIC	- NOT IN CONTRACT
NO	- NORMALLY OPEN
NTS	- NOT TO SCALE
OD	- OUTSIDE DIAMETER
PVC	- POLYVINYL CHLORIDE PIPE
SF	- SQUARE FEET

GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
4. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
5. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
6. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
7. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
8. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
9. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
12. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.

PLUMBING DRAWING INDEX		
SHEET	DESCRIPTION	ISSUED
P-001	PLUMBING LEGEND AND SHEET INDEX	YES
P-100	PLUMBING SITE PLAN	YES
P-200	PLUMBING DETAILS	YES

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT



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STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7028

Donald Hardy Austin, Jr., P.E.
Florida License #60651

PERMIT PACKAGE
NOVEMBER 2011

REVISIONS:

PROJECT NAME:
POMPAÑO BEACH
PUBLIC SAFETY BLDG.
EMERGENCY
GENERATOR SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET,
POMPAÑO BEACH,
FLORIDA, 33060

COMM. NO. 11018.000

SCALE:

DATE: JANUARY 2012

DRAWN: JRH

CHECKED: DLT

CADD FILE:

DRAWING TITLE:
PLUMBING LEGEND
AND SHEET INDEX

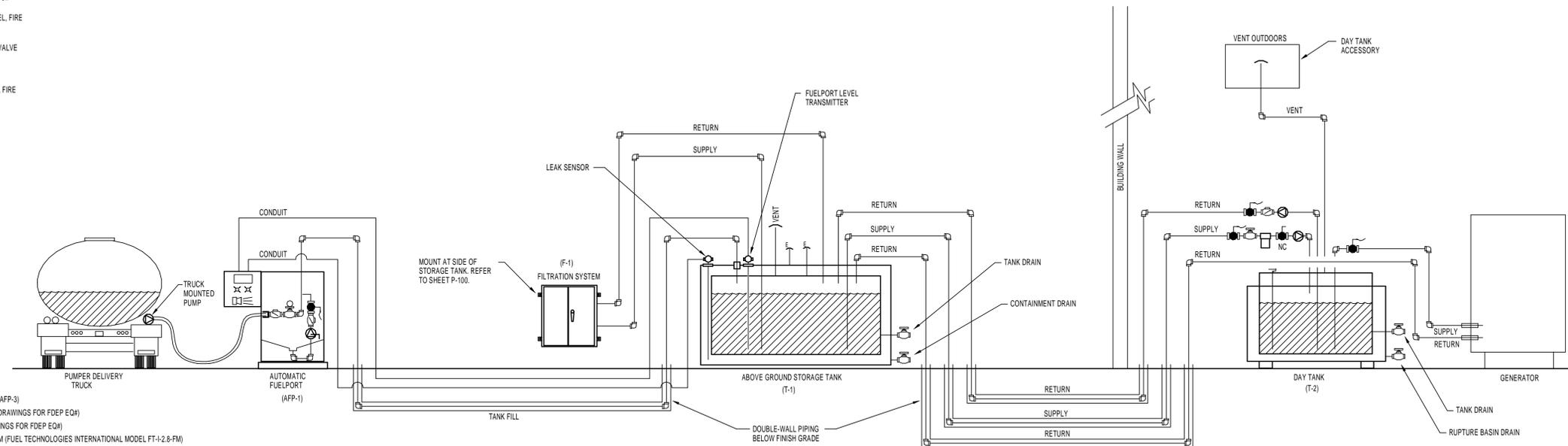
SHEET NO. P-001

LEGEND

	HAND SHUT-OFF VALVE, BRONZE, 600PSI
	HAND SHUT-OFF VALVE, CARBON STEEL, FIRE RATED
	ELECTRICALLY OPERATED SHUT-OFF VALVE
	SOLENOID VALVE (N.O. OR N.C.)
	AUTOMATIC CLOSURE, FUSABLE LEAK, FIRE RATED VALVE.
	CHECK VALVE
	QUICK CONNECT COUPLING
	PUMP MOTOR DRIVEN
	PUMP HAND OPERATED
	STRAINER
	EMERGENCY VENT
	EMERGENCY VENT

EQUIPMENT TAGS

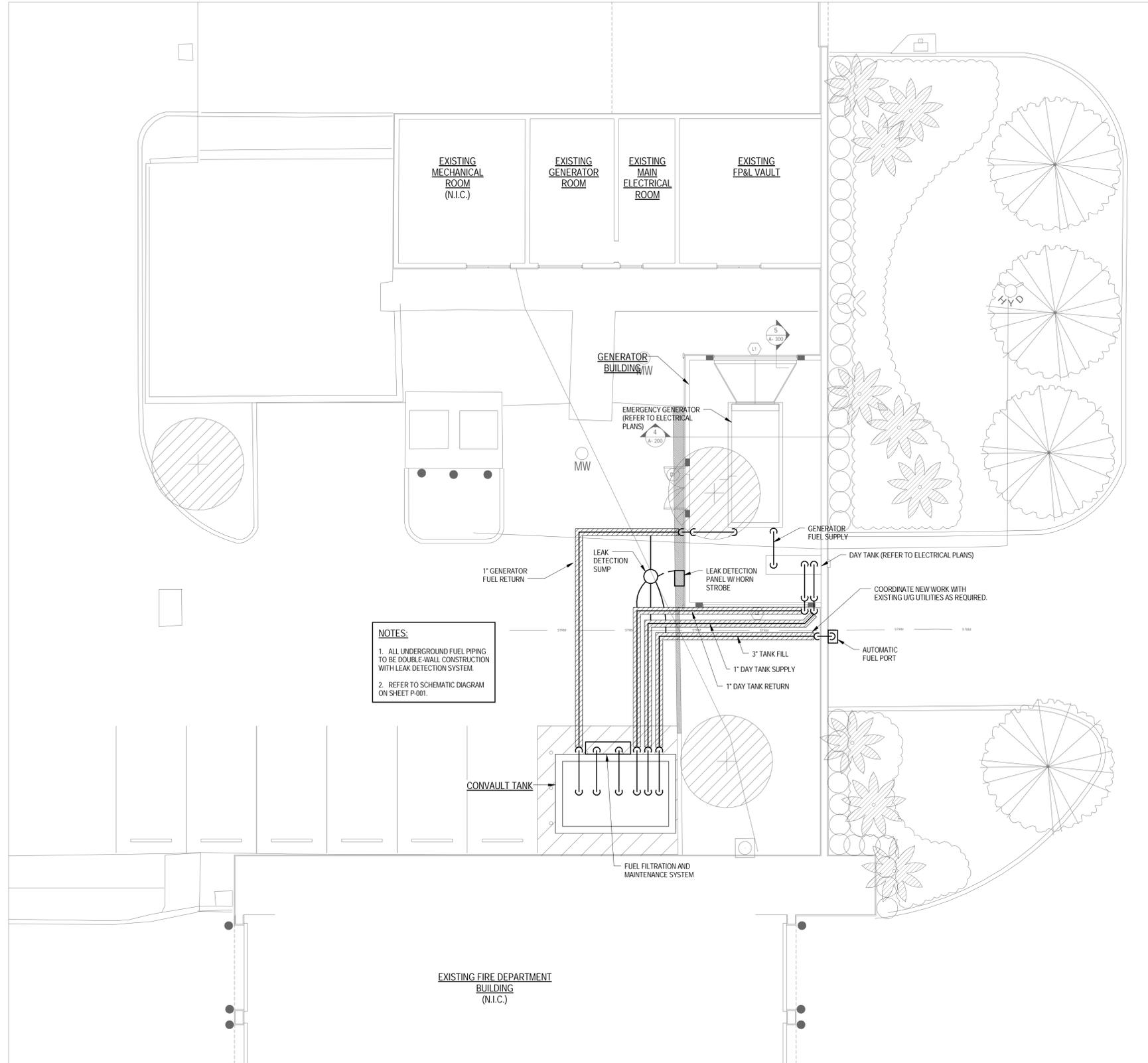
	AUTOMATIC FUELPORT (SIMPLEX MODEL AFF-3)
	STORAGE TANK (REFER TO ELECTRICAL DRAWINGS FOR FDEP EQ#)
	DAY TANK (REFER TO ELECTRICAL DRAWINGS FOR FDEP EQ#)
	FUEL MAINTENANCE / FILTRATION SYSTEM (FUEL TECHNOLOGIES INTERNATIONAL MODEL FT-1-2-8-FM)



FUEL OIL SYSTEM SCHEMATIC DIAGRAM

No Scale

1



NOTES:

1. ALL UNDERGROUND FUEL PIPING TO BE DOUBLE-WALL CONSTRUCTION WITH LEAK DETECTION SYSTEM.
2. REFER TO SCHEMATIC DIAGRAM ON SHEET P-001.

PERMIT PACKAGE
 NOVEMBER 2011

REVISIONS:

PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

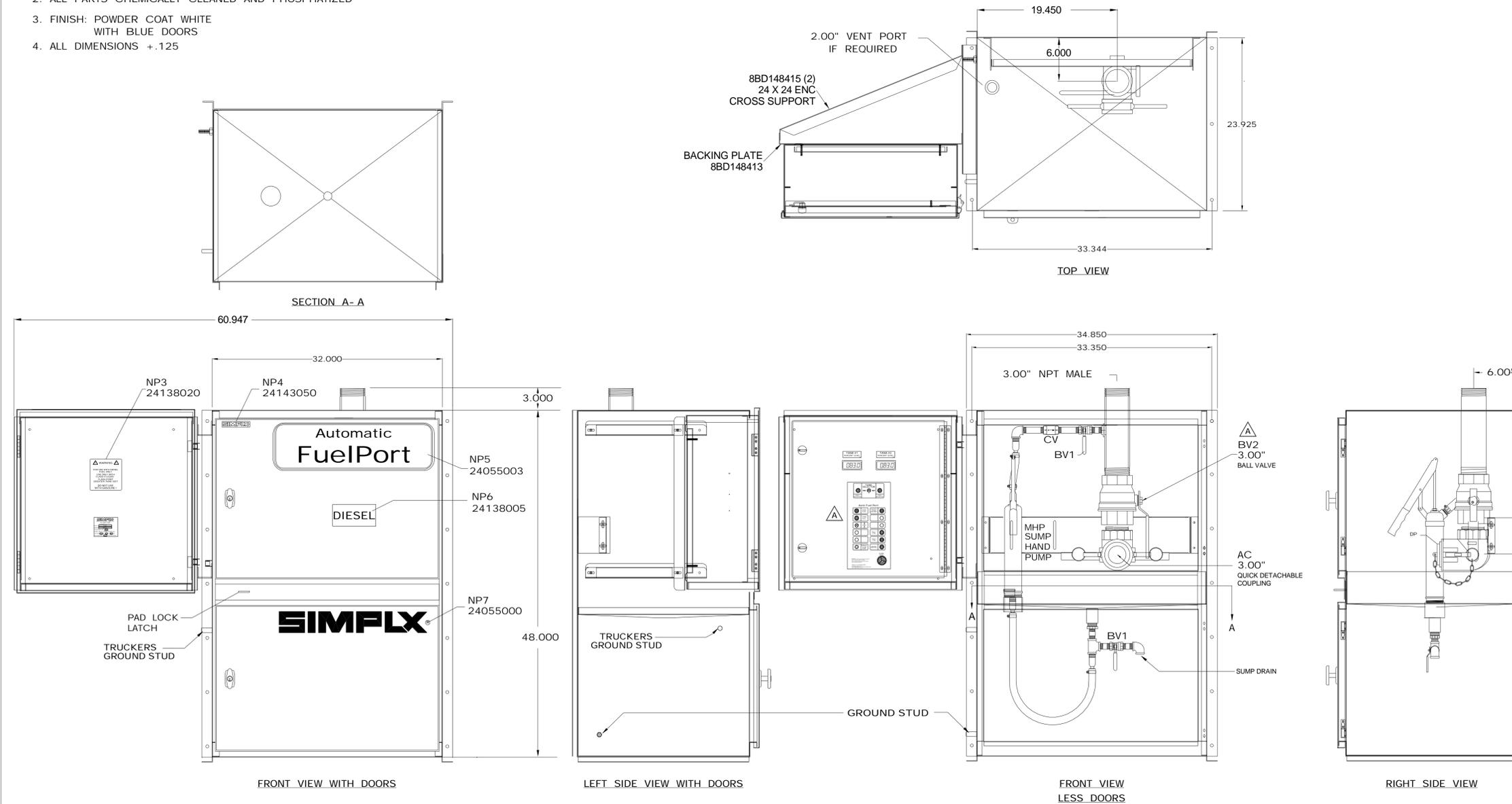
PROJECT ADDRESS:
180 SW 3rd STREET, POMPANO BEACH, FLORIDA, 33060

COMM. NO.	11018.000
SCALE:	1/8" = 1'-0"
DATE:	JANUARY 2012
DRAWN:	JRH
CHECKED:	DLT
CADD FILE:	

DRAWING TITLE:
PLUMBING SITE PLAN

NOTES:

1. CONSTRUCTION: FORMED AND WELDED HOT ROLLED STEEL
2. ALL PARTS CHEMICALLY CLEANED AND PHOSPHATIZED
3. FINISH: POWDER COAT WHITE WITH BLUE DOORS
4. ALL DIMENSIONS +.125



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SIMPLX		SPRINGFIELD, ILLINOIS	
SCALE: --	APPROVED BY:	DRAWN BY:	
DATE:		REVISED:	
FUEL TRANSFER EQUIPMENT		AFP-3	
		AUTO FUEL PORT 3.0"	

REVISIONS:

PROJECT NAME:
POMPANO BEACH PUBLIC SAFETY BLDG. EMERGENCY GENERATOR SERVICES

PROJECT ADDRESS:
180 SW 3rd STREET, POMPANO BEACH, FLORIDA, 33060

COMM. NO.	11018.000
SCALE:	
DATE:	JANUARY 2012
DRAWN:	YI
CHECKED:	DLT
CADD FILE:	

DRAWING TITLE:
PLUMBING DETAILS



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STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER - 7928

PERMIT PACKAGE
DEC 2011

REVISIONS:

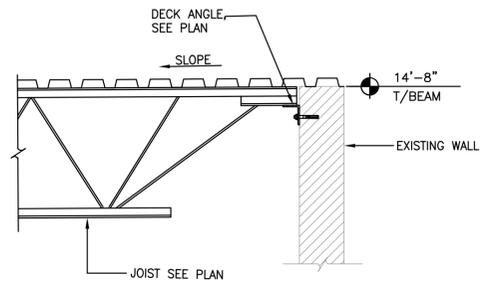
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POMPANO BEACH CITY HALL
TEMP. EMERGENCY GENERATOR SERVICES

PROJECT ADDRESS:
100 W ATLANTIC BLVD.
POMPANO BEACH,
FLORIDA, 33060

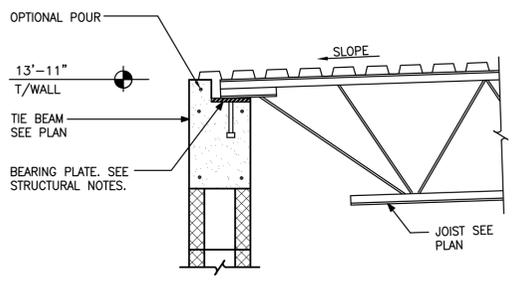
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SCALE:	AS NOTED
DATE:	DEC 2011
DRAWN:	MEL
CHECKED:	CT
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TYPICAL DETAILS

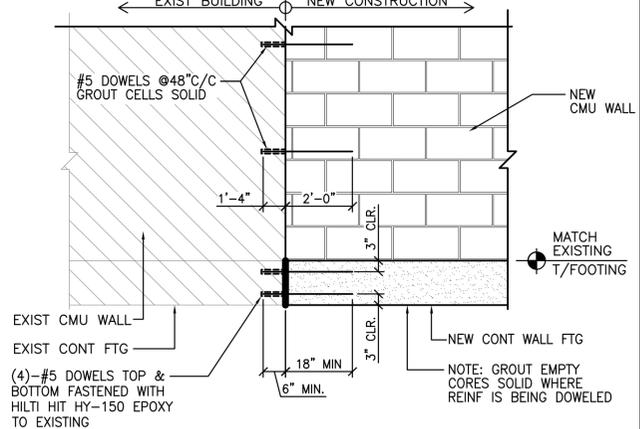
SHEET NO.
S102



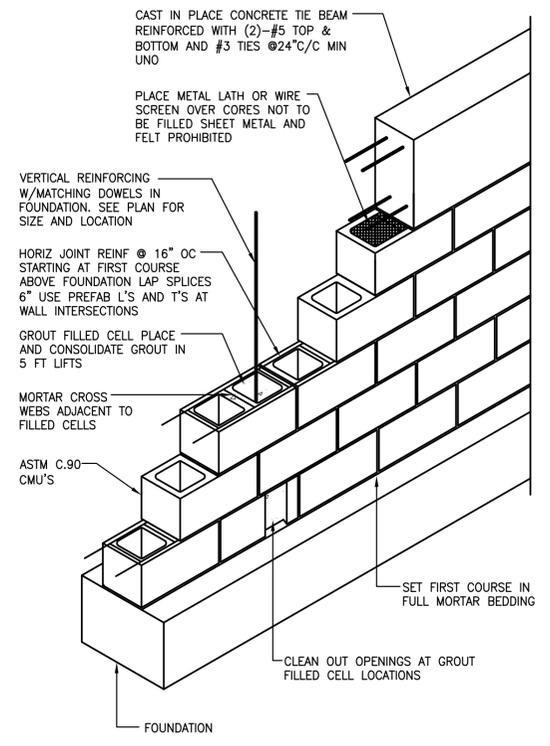
4 TYPICAL STEEL JOIST BEARING DETAIL TO EXISTING STRUCTURE
SCALE: N.T.S.



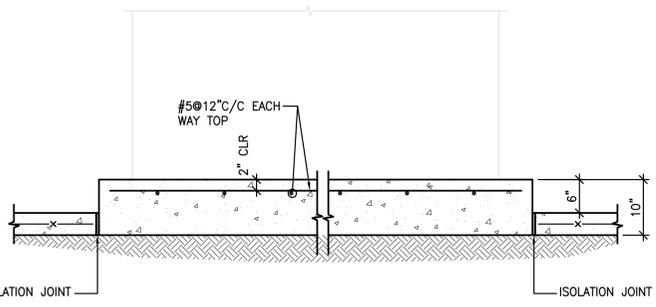
3 TYPICAL STEEL JOIST BEARING DETAIL
SCALE: N.T.S.



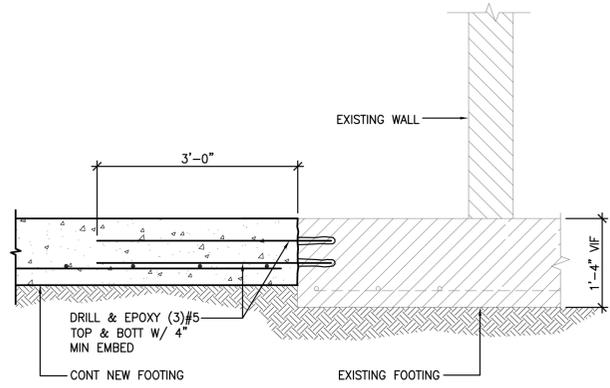
2 TYPICAL NEW TO EXISTING WALL DETAIL
SCALE: N.T.S.



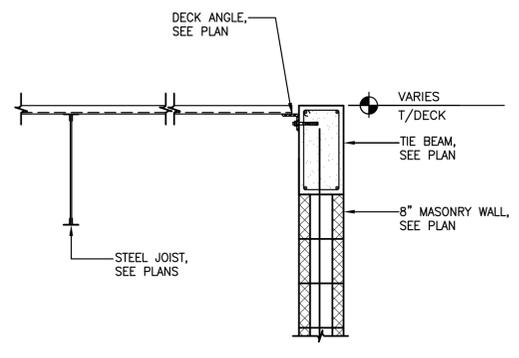
5 TYPICAL MASONRY WALL CONSTRUCTION
SCALE: N.T.S.



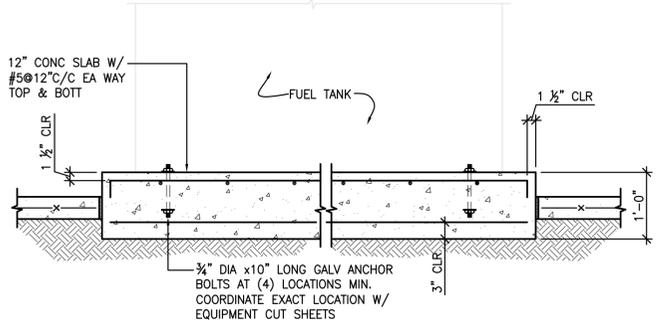
8 SECTION THRU 10" CONC SLAB
SCALE: 3/4"=1'-0"



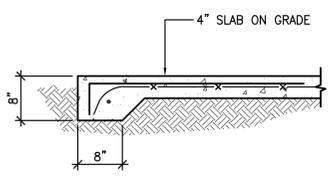
7 NEW TO EXISTING FOOTING CONNECTION
SCALE: 3/4"=1'-0"



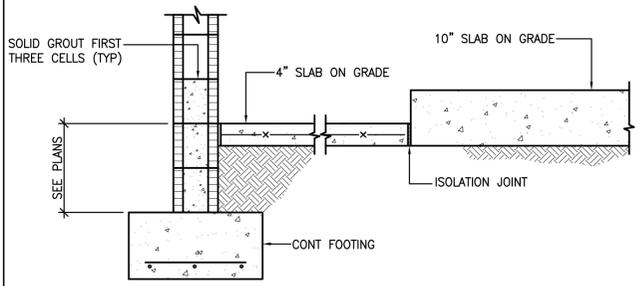
6 TYPICAL STEEL JOIST BEARING DETAIL
SCALE: N.T.S.



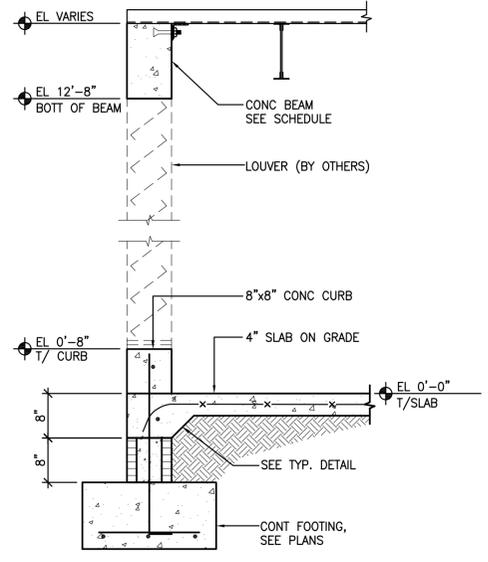
10 SECTION THRU 12" CONC SLAB
SCALE: 3/4"=1'-0"



9 SECTION
SCALE: 3/4"=1'-0"



9 SECTION ALONG WEST WALL
SCALE: 3/4"=1'-0"



12 SECTION AT LOUVERS
SCALE: 3/4"=1'-0"

