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AA2600023

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# MEDICAL EXAMINER'S OFFICE AND EMERGENCY MEDICAL SERVICES RENOVATION

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30%

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DATE:	xx/xx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MEEMS  
RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE

COVER SHEET

SCALE:  $\frac{3}{16}'' = 1'$

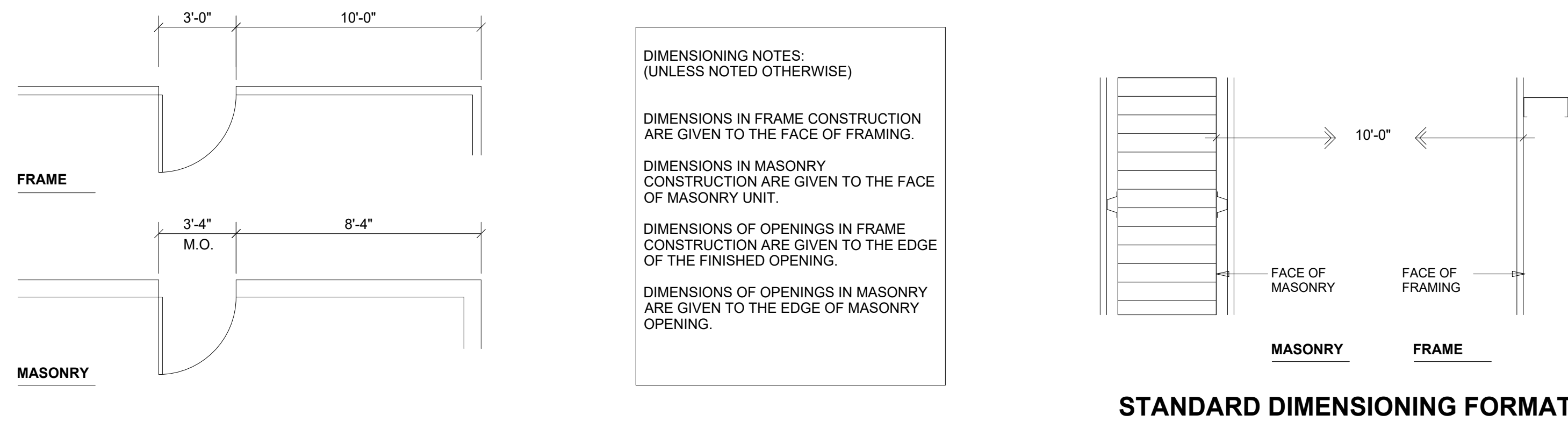
SHEET NUMBER

**G0.0**

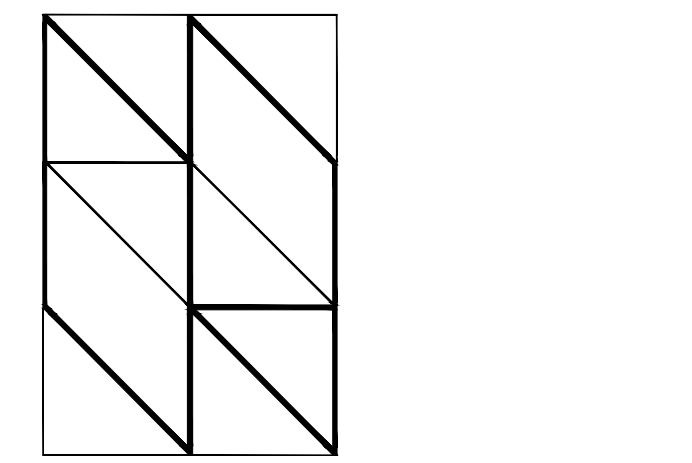
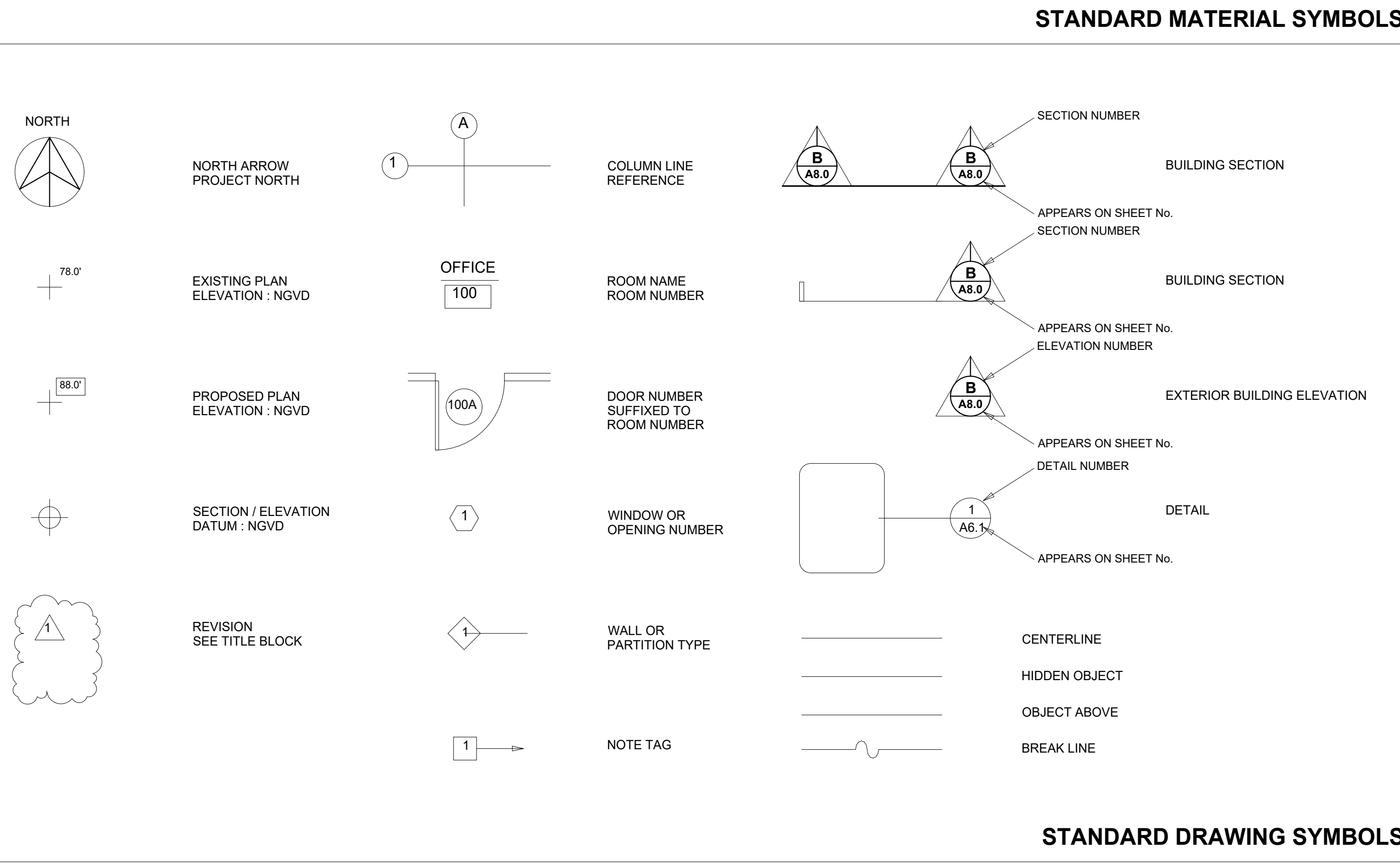
## ARCHITECTURAL ABBREVIATIONS

NOTE: REQUEST CLARIFICATION WHERE THE MEANING IS UNCLEAR.

<p>AB ANCHOR BOLT A/C AIR CONDITIONING AC ALTERNATING CURRENT ACP ACOUSTIC CEILING PANEL ADDL ADDITIONAL ADJ ADJUSTABLE A/E ARCHITECT / ENGINEER AFI ARC FAULT CIRCUIT AFF ABOVE FINISHED FLOOR AHU AIR HANDLER ALT ALTERNATE ALUM ALUMINUM AMP AMPERE AP ACCESS PANEL APPROX APPROXIMATELY ARCH ARCHITECTURAL ASPH ASPHALT AUTO AUTOMATIC AV AUDIO VISUAL AVG AVERAGE</p> <p>B BASE BD BOARD BITUM BITUMINOUS BLDG BUILDING BLK BLOCK BLKG BLOCKING BM BEAM BOT BOTTOM BU BUILT UP BUR BUILT UP ROOFING</p> <p>CAB CABINET CB CATCH BASIN C/C CENTER TO CENTER CD CONSTRUCTION DOCUMENT CONC CONCRETE CEM CEMENT CER CERAMIC CIP CAST IN PLACE CJ CONTROL JOINT CL CENTERLINE CLG CEILING CLO CLOSET CLR CLEAR CMU CONCRETE MASONRY UNIT CO CLEAN OUT COL COLUMN CONF CONFERENCE ROOM CONT CONTINUOUS CORR CORRIDOR CP CENTER POINT CPT CARPET CT CERAMIC TILE CTR CENTER CU CONDENSING UNIT CY CUBIC YARD</p> <p>DBL DOUBLE DD DESIGN DEVELOPMENT DEMO DEMOLISH / DEMOLITION DEPT DEPARTMENT DTL DETAIL DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DISP DISPENSER DN DOWN DR DOOR / DINING ROOM DS DOWN SPOUT DTL DETAIL DW DISHWASHER DWG DRAWING</p> <p>E EAST EA EACH EF EXHAUST FAN EJ EXPANSION JOINT EL ELEVATION ELEC ELECTRIC(AL) ELEV ELEVATOR EMER EMERGENCY EQ EQUAL EW EACH WAY EWC ELECTRIC WATER COOLER</p>	<p>EWB ELECTRIC WATER HEATER EXH EXHAUST EXP EXPANSION EXP BT EXPANSION BOLT EXIST EXISTING EXT EXTERIOR</p> <p>FA FIRE ALARM FACP F. A. CONTROL PANEL FBC FLORIDA BUILDING CODE FD FLOOR DRAIN FDN FOUNDATION FE FIRE EXTINGUISHER FEC F. E. CABINET FF FINISHED FLOOR FIN FINISH FL FLOOR FL FLUORESCENT FOM FACE OF MASONRY FOS FACE OF STRUCTURE FOW FACE OF WALL FT FOOT / FEET FTG FOOTING FURN FURNITURE FURR FURRING FUT FUTURE</p> <p>GA GAUGE GALV GALVANIZED GC GENERAL CONTRACTOR GEN GENERATOR GFI GROUND FAULT CIRCUIT GMU GLASS MASONRY UNIT GYP GYPSUM GYP BD GYPSUM BOARD</p> <p>HT HEIGHT HB HOSE BIB HC HOLLOW CORE HCP HANDICAPPED HDWD HARD WOOD HDWR HARDWARE HM HOLLOW METAL HR HOUR HW HOT WATER</p> <p>ID INSIDE DIAMETER IN INCH INCL INCLUDING INSUL INSULATION INT INTERIOR INV INVERT</p> <p>JAN JANITOR JB JUNCTION BOX JT JOINT</p> <p>KIT KITCHEN KO KNOCK OUT</p> <p>LAM LAMINATE LAT LATITUDE LAV LAVATORY LB(S) POUND(S) LN LINEN LOUV LOUVER LT LIGHT LTG LIGHTING LTL LINTEL LVL LEVEL</p> <p>MAT MATERIAL MAX MAXIMUM MC MEDICINE CABINET MECH MECHANICAL MED MEDIUM MEZZ MEZZANINE MFR MANUFACTURER MIN MINIMUM MIR MIRROR MISC MISCELLANEOUS MO MASONRY OPENING MR MOISTURE RESISTANT MS METAL STUD MTD MOUNTED</p>	<p>MTG MOUNTING MTL METAL MULL MULLION</p> <p>N NORTH NIC NOT IN CONTRACT NO NUMBER NOA NOTICE OF ACCEPTANCE NOM NOMINAL NTS NOT TO SCALE</p> <p>OA OVER ALL O/A OUTSIDE AIR OC ON CENTER OD OUTSIDE DIAMETER OFF OFFICE OPP OPPOSITE OZ OUNCE</p> <p>PAR PARALLEL PC PRECAST CONCRETE PL PLATE P.LAM PLASTIC LAMINATE PLAS PLASTIC PLYWD PLYWOOD PNL PANEL PNT PAINT PP POWER POLE PR PAIR PSF POUNDS PER SQ FT PSI POUNDS PER SQ IN PT PRESSURE TREATED PTD PAINTED PTN PARTITION PVC POLYVINYL CHLORIDE PIPE PVMT PAVEMENT</p> <p>QT QUARRY TILE QTR QUARTER</p> <p>R RADIUS R RISER (ON STAIRS) RA RETURN AIR RD ROOF DRAIN REF REFER TO / REFERENCE REF REFRIGERATOR REINF REINFORCING REQ REQUIRED RESIL RESILIENT REV REVISE RL RAIN LEADER RM ROOM RO ROUGH OPENING ROW RIGHT OF WAY RR REST ROOM</p> <p>S SOUTH SA SUPPLY AIR SAN SANITARY SC SOLID CORE SCHD SCHEDULE / SCHEDULED SCW SOLID CORE WOOD SECT SECTION SF SQUARE FEET SHLV SHELVING SHR SHOWER SHT SHEET SIM SIMILAR SPEC SPECIFICATIONS SQ SQUARE SQ FT SQUARE FEET SQ IN SQUARE INCHES SQ YD SQUARE YARD SS STAINLESS STEEL STD STANDARD STL STEEL STO STORAGE STR STRUCTURE SUR SURFACE SUSP SUSPENDED SW STORM WATER SYM SYMMETRICAL</p> <p>T TREAD (ON STAIRS) TB TOWEL BAR T &amp; B TOP AND BOTTOM TEL TELEPHONE TEMP TEMPORARY TERR TERRAZZO T &amp; G TONGUE AND GROOVE THK THICK(NESS) THRES THRESHOLD THRU THROUGH TOB TOP OF BEAM TOS TOP OF STRUCTURE / SLAB TOW TOP OF WALL TV TELEVISION TYP TYPICAL</p> <p>UNO UNLESS NOTED OTHERWISE UTIL UTILITY</p> <p>VCT VINYL COMPOSITION TILE VERT VERTICAL VEST VESTIBULE VIF VERIFY IN THE FIELD VTR VENT THROUGH THE ROOF VIN VINYL VWC VINYL WALL COVERING</p> <p>W WEST W/ WITH WC WATER CLOSET WC WHEEL CHAIR WD WOOD WDW WINDOW WH WATER HEATER W/O WITHOUT WP WATERPROOF(ING) WR WATER RESISTANT WT WEIGHT WWF WELDED WIRE FABRIC</p> <p>YD YARD</p>
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	EARTHEN FILL		PLYWOOD - LARGE SCALE		GYPSUM BOARD THICKNESS AS INDICATED
	GRANULAR FILL		PLYWOOD - SMALL SCALE		BATT TYPE - BLANKET TYPE INSULATION
	CONCRETE		FINISHED WOOD		RIGID INSULATION
	BRICK		ROUGH WOOD - FRAMING SIZES AS INDICATED		METAL
	CONCRETE MASONRY		ROUGH WOOD - BLOCKING SIZES AS REQUIRED		WATERPROOFING, VAPOR BARRIER, MOISTURE BARRIER
	STONE		CEMENT PLASTER, STUCCO, MORTAR, GROUT, SAND		METAL LATH



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DATE:	xxxxxx
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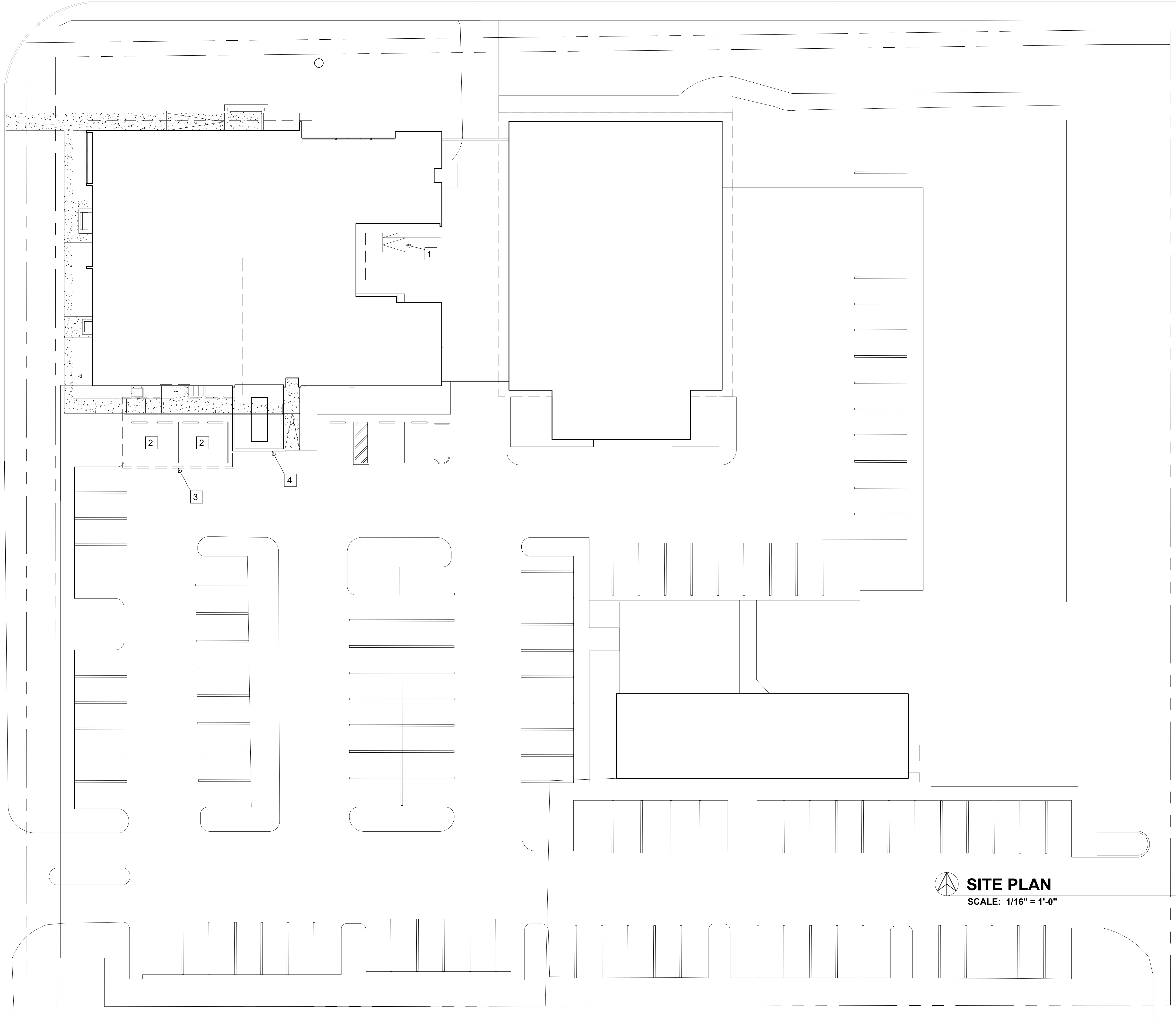
PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**DRAWING STANDARDS**

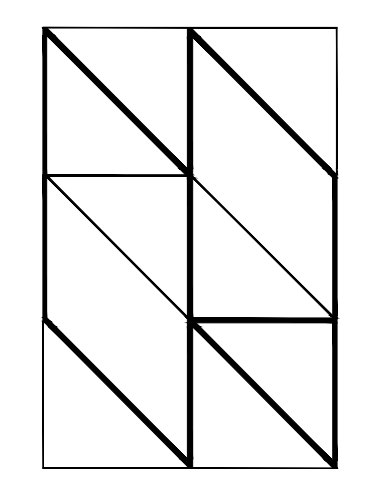
SCALE: NTS  
SHEET NUMBER

G0.2



**SITE PLAN NOTES:**

- 1 NEW HANDICAP RAMP
- 2 RESTRIPE PARKING SPACE
- 3 NEW CANOPY
- 4 NEW SCREENED GENERATOR YARD



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SHEET TITLE

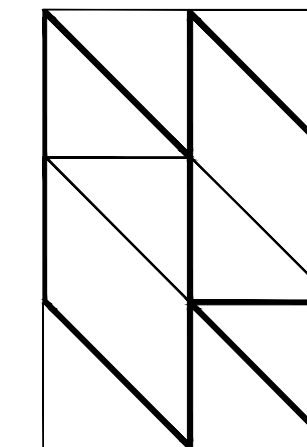
**SITE PLAN**

SCALE: 1/16" = 1'-0"

SHEET NUMBER

**A1.0**

 **SITE PLAN**  
 SCALE: 1/16" = 1'-0"



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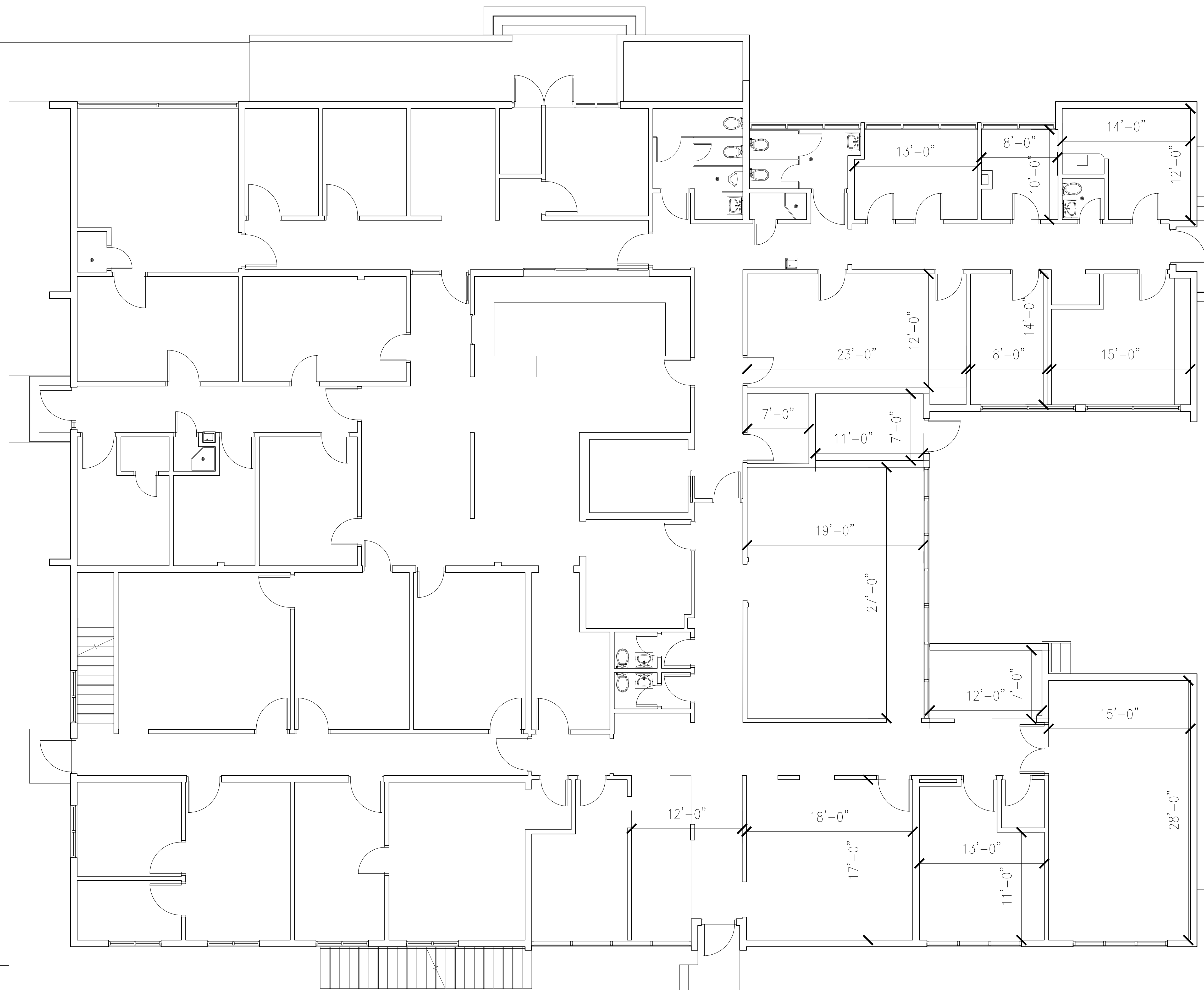
PROJECT NAME:  
**MANATEE COUNTY MEEMS  
RENOVATION**


202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**DEMOLITION PLAN**

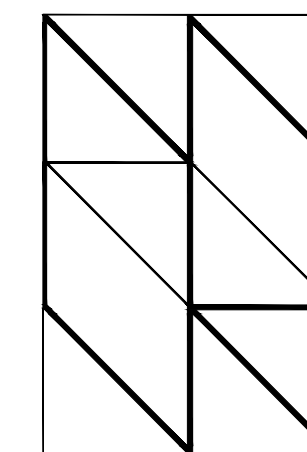
SCALE: 3/16" = 1'  
SHEET NUMBER

**A2.0**



 **DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"

NOTE:  
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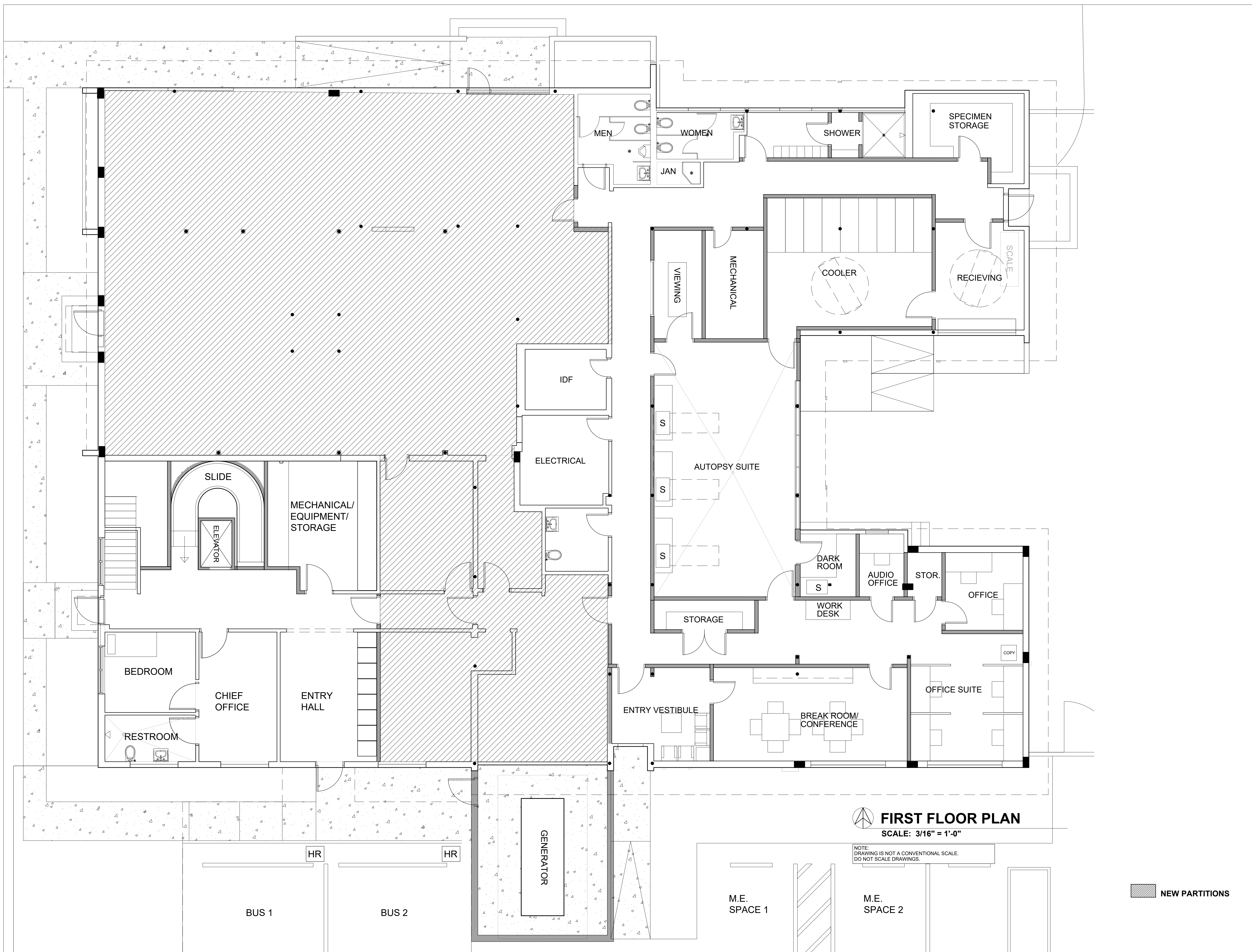
SHEET TITLE

FIRST FLOOR PLAN

SCALE:  $\frac{3}{16}'' = 1'$

SHEET NUMBER

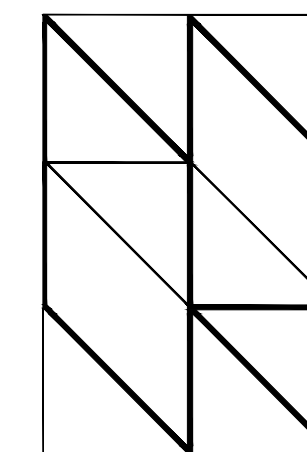
**A2.1**



**FIRST FLOOR PLAN**  
SCALE:  $\frac{3}{16}'' = 1'-0''$

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NEW PARTITIONS



**HALL ARCHITECTS, PA**

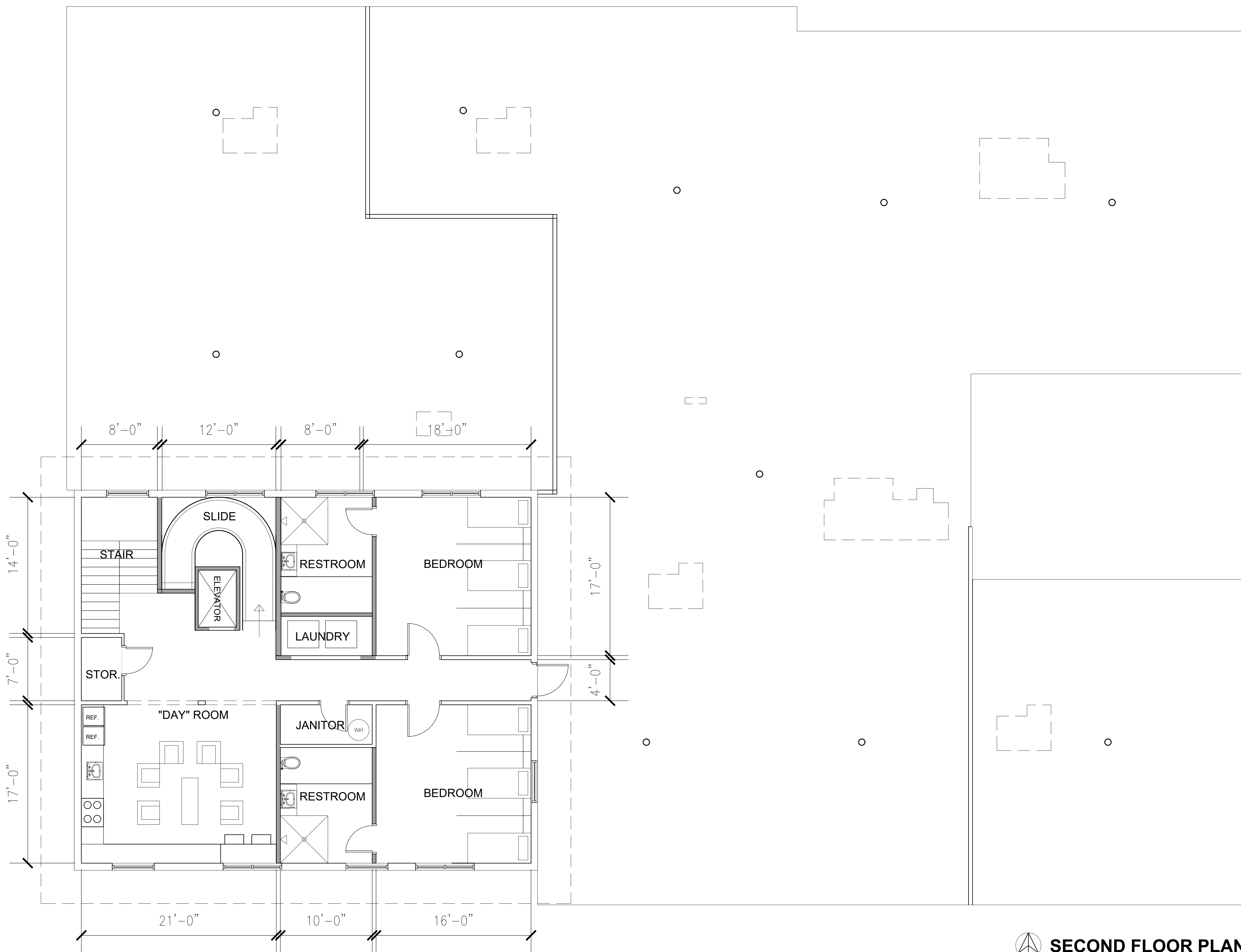
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**SECOND FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

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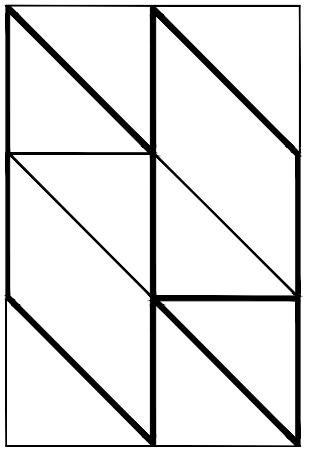
PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
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SHEET TITLE  
**2ND FLOOR PLAN**

SCALE: 3/16" = 1'  
SHEET NUMBER

**A2.2**



**HALL ARCHITECTS, PA**  
AA20600923

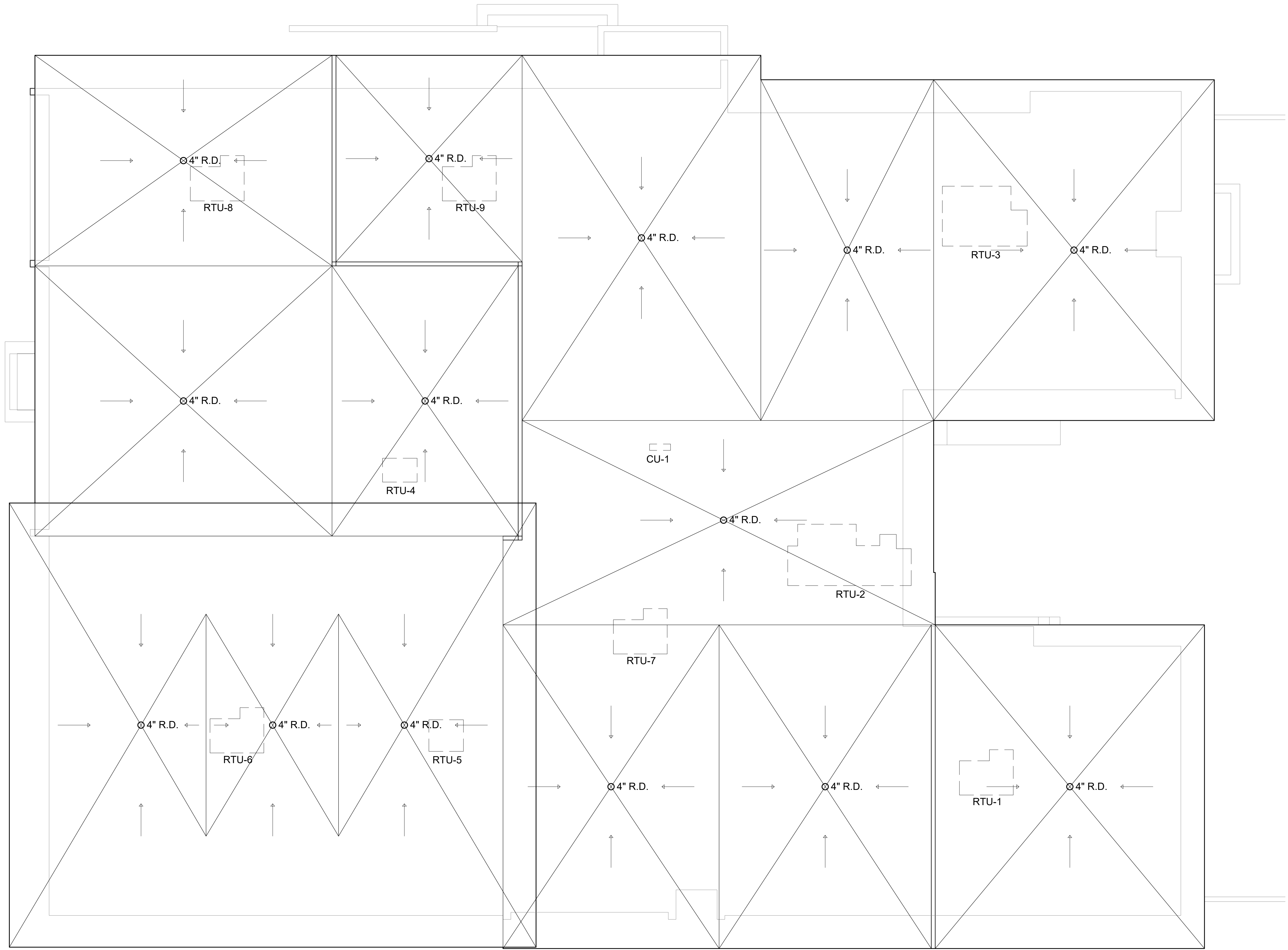
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DATE:	xx/xx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE

ROOF PLAN

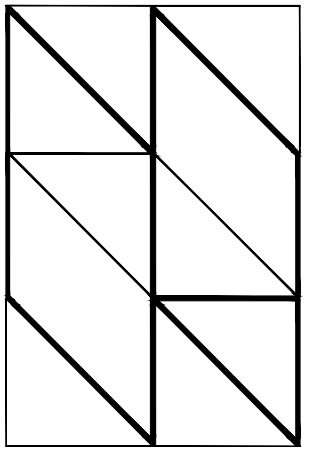
SCALE: 3/16" = 1'

SHEET NUMBER

**A2.3**

**ROOF PLAN**  
SCALE: 3/16" = 1'-0"

NOTE:  
DRAWING IS NOT A CONVENTIONAL SCALE.  
DO NOT SCALE DRAWINGS.



**HALL ARCHITECTS, PA**

AA2600023  
513 CENTRAL AVENUE, SARASOTA, FL  
3 4 2 3 6  
941.917.0883 phone 941.917.0889 fax


MEP ENGINEER:  
**ATP ENGINEERING**  
SOUTH, PL

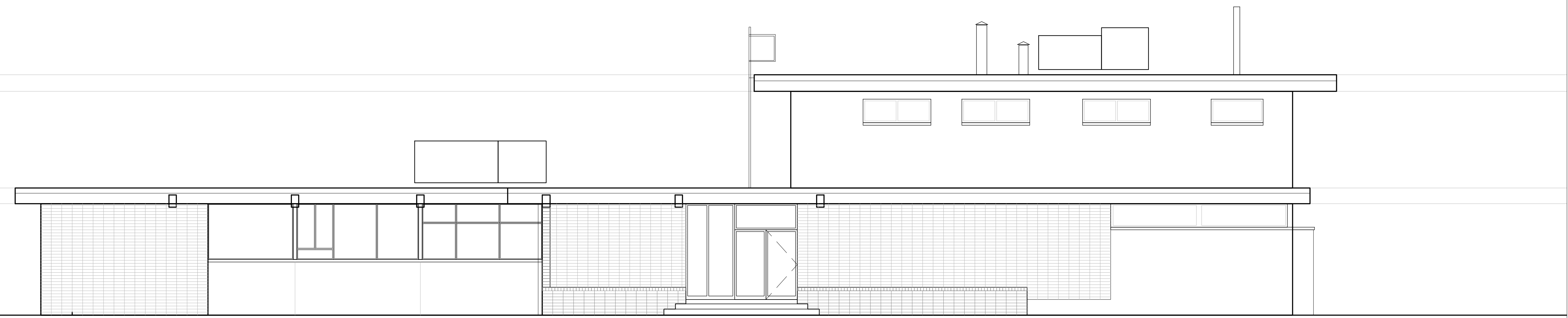
5227 OFFICE PARK BLVD.  
BRADENTON, FL 34203  
941.751.6485 phone


STRUCTURAL ENGINEER:  
**STIRLING & WILBUR**  
ENGINEERING

7085 SOUTH TAMiami TRAIL  
SARASOTA FL 34236  
941.929.1552 phone



 **SOUTH ELEVATION**  
SCALE: 3/16" = 1'-0"



 **NORTH ELEVATION**  
SCALE: 3/16" = 1'-0"

SEAL

GREGORY HALL, AIA ARO012900  
ARCHITECT OF RECORD

**GENERAL NOTES:**

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DATE:	xx/xx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE

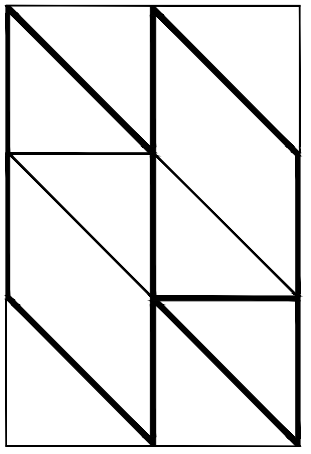
EXISTING EXTERIOR ELEVATIONS

SCALE: 3/16" = 1'

SHEET NUMBER

**A3.0**





**HALL ARCHITECTS, PA**

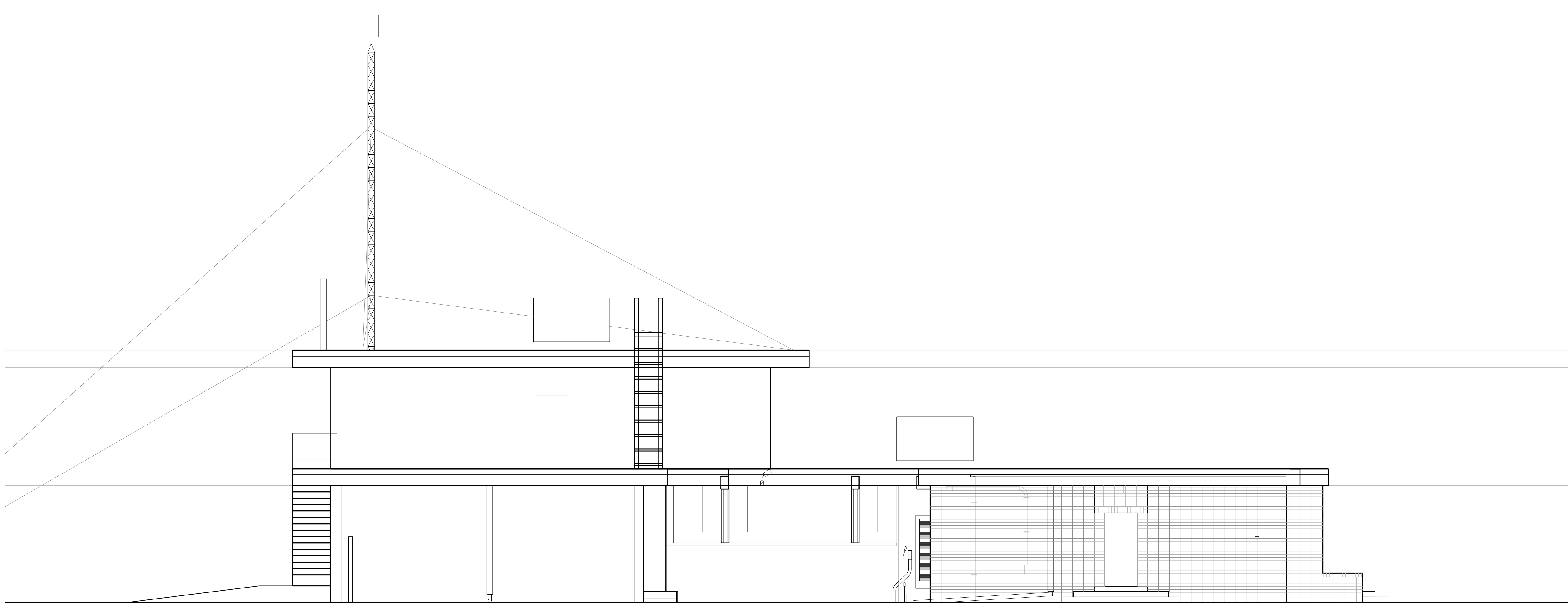
AA26000923  
513 CENTRAL AVENUE, SARASOTA, FL 34203  
941.917.0883 phone 941.917.0889 fax


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**ATP ENGINEERING**  
SOUTH, FL

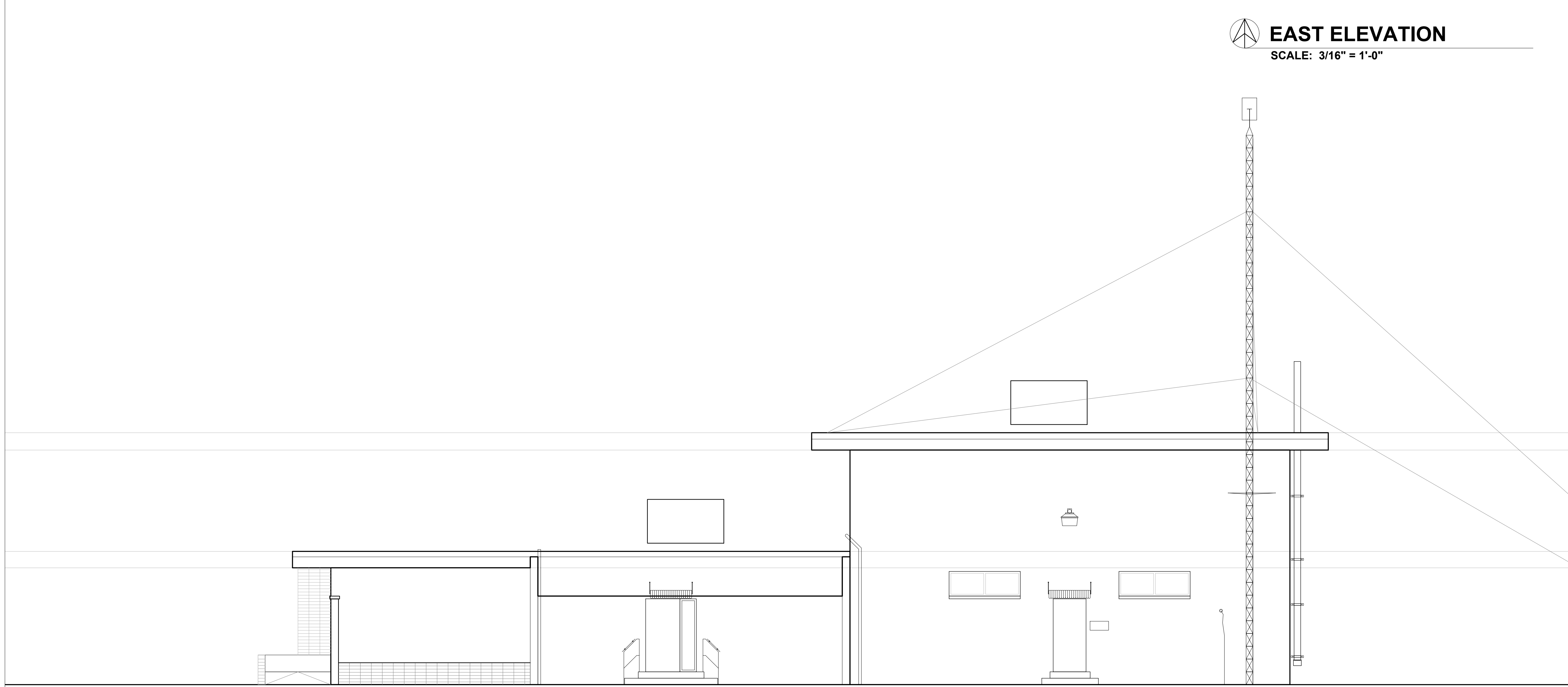
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941.751.6485 phone


STRUCTURAL ENGINEER:  
**STIRLING & WILBUR**  
ENGINEERING

7085 SOUTH TAMiami TRAIL  
SARASOTA FL 34236  
941.929.1552 phone



 **EAST ELEVATION**  
SCALE: 3/16" = 1'-0"



 **WEST ELEVATION**  
SCALE: 3/16" = 1'-0"

SEAL

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ARCHITECT OF RECORD

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DATE:	xx/xx/xxxx	xxxxxxx

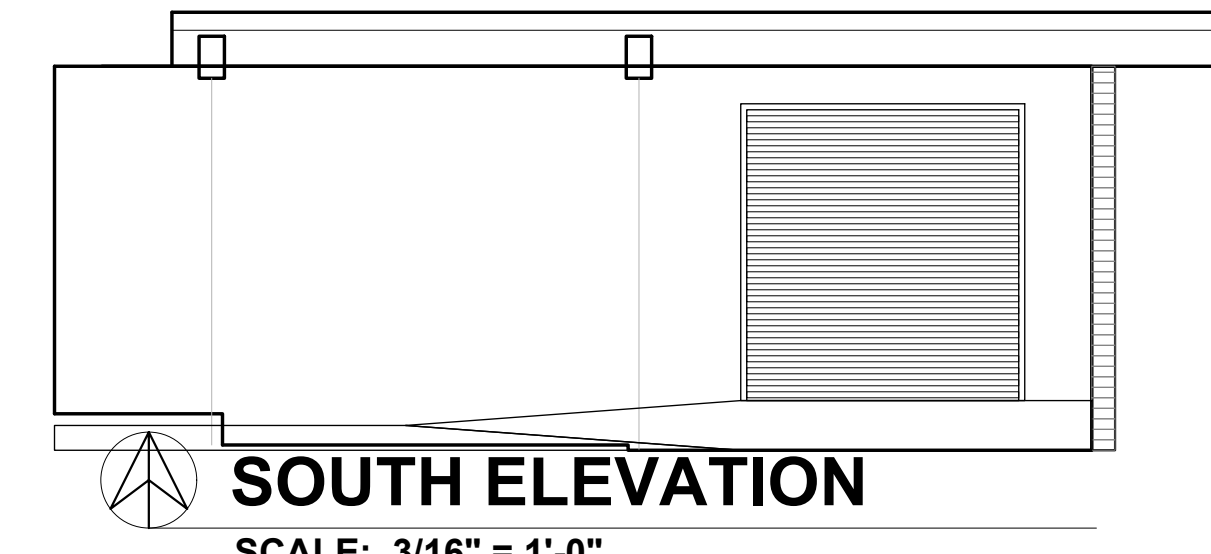
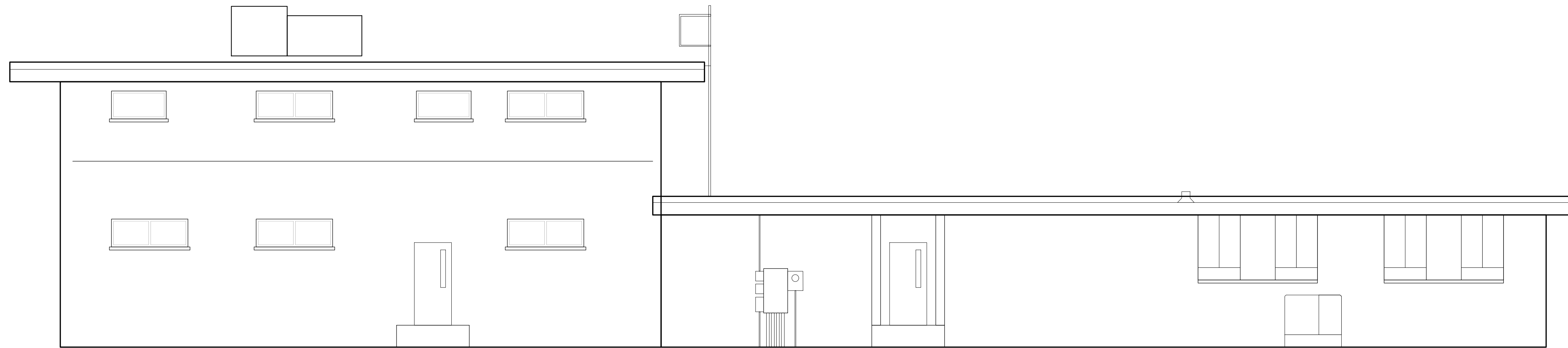
PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

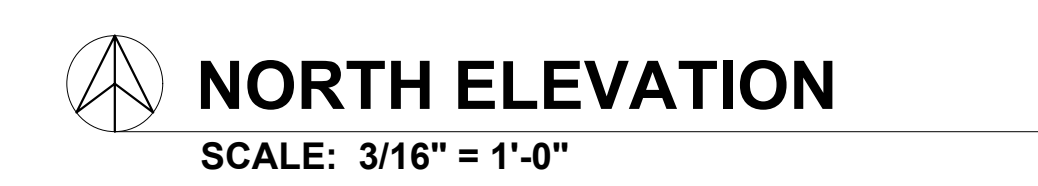
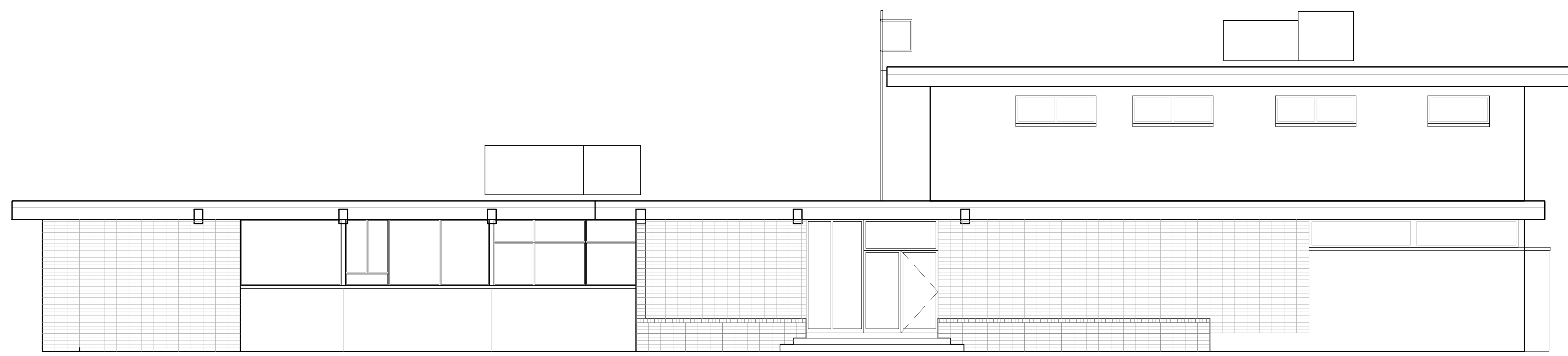
SHEET TITLE  
**EXISTING EXTERIOR ELEVATIONS**

SCALE: 3/16" = 1'  
SHEET NUMBER

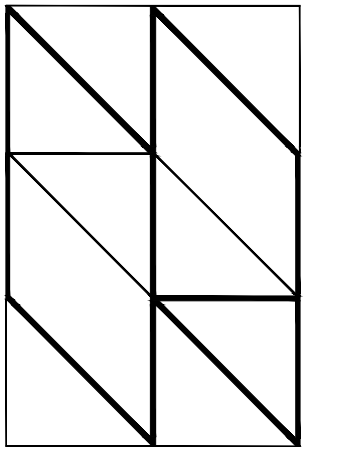
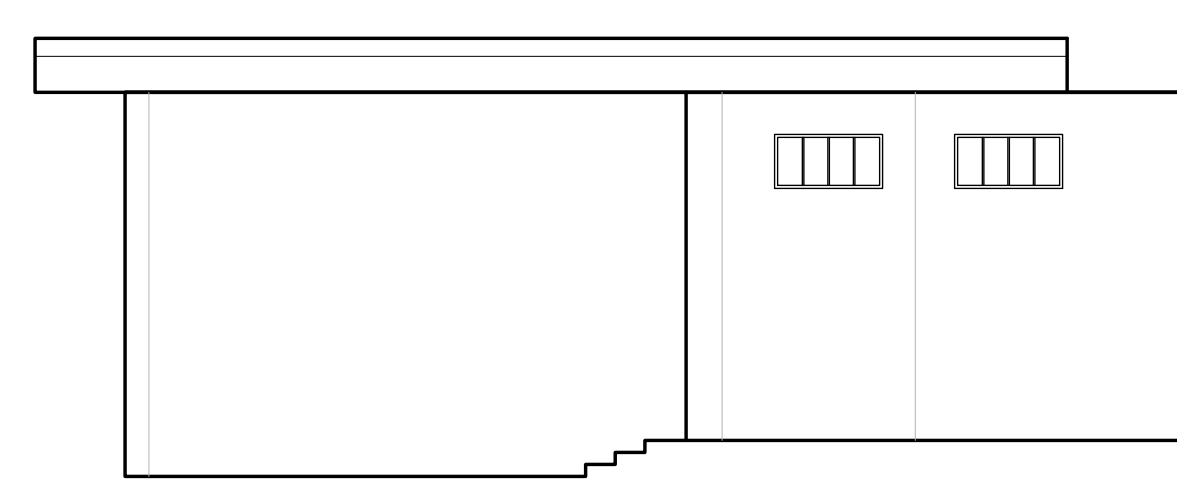
**A3.1**



**SOUTH ELEVATION**  
SCALE: 3/16" = 1'-0"



**NORTH ELEVATION**  
SCALE: 3/16" = 1'-0"



**HALL ARCHITECTS, PA**  
AA20000923

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STRUCTURAL ENGINEER:  
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ENGINEERING

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941.929.1552 phone

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DATE:	XXXXXXXX
XX/XX/XXXX	XXXXXXXX

PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

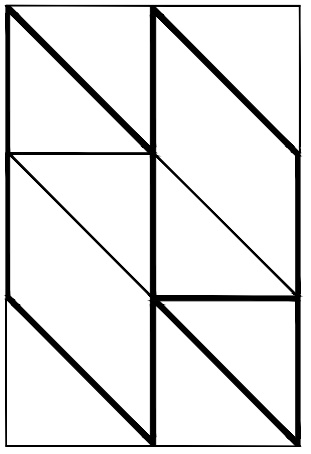
SHEET TITLE

EXTERIOR ELEVATIONS

SCALE: 3/16" = 1'

SHEET NUMBER

**A3.2**



**HALL ARCHITECTS, PA**  
AA26000923

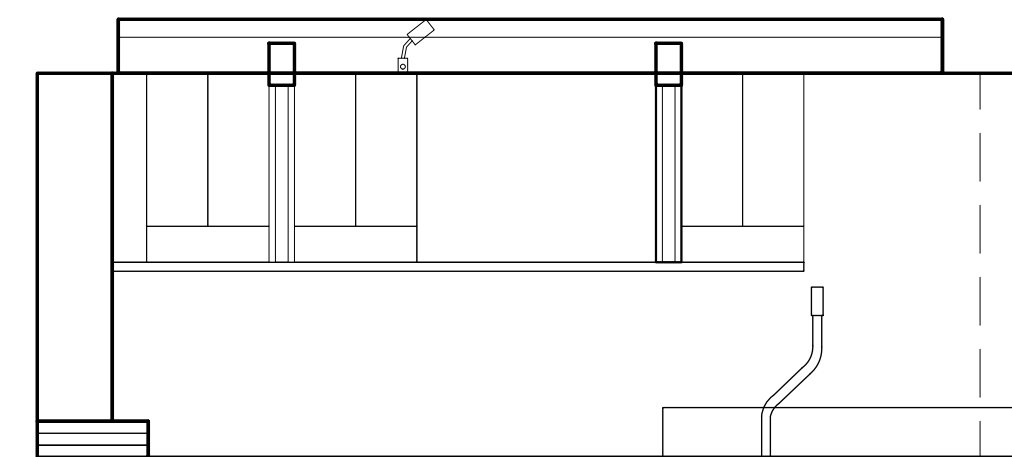
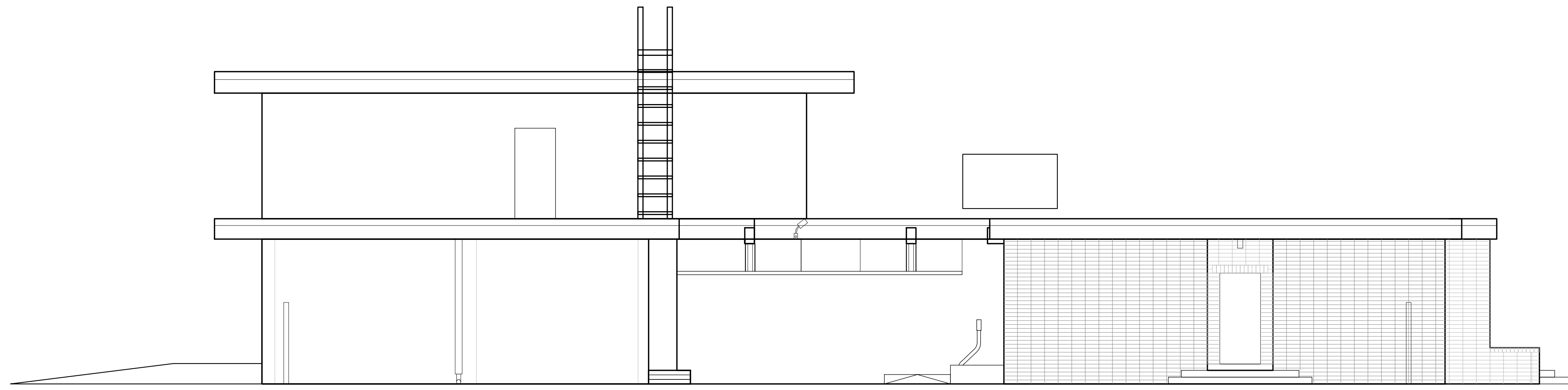
513 CENTRAL AVENUE, SARASOTA, FL  
3 4 2 3 6  
941.917.0883 phone 941.917.0889 fax


MEP ENGINEER:  
**ATP ENGINEERING**  
SOUTH, FL

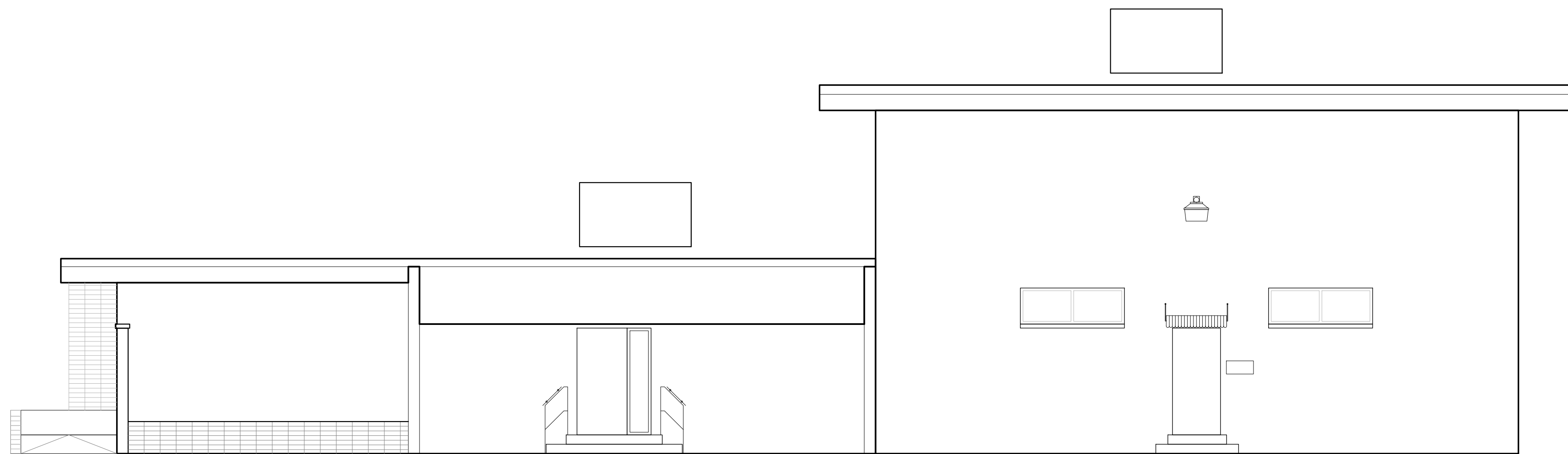
5227 OFFICE PARK BLVD.  
BRADENTON, FL 34203  
941.751.6485 phone


STRUCTURAL ENGINEER:  
**STIRLING & WILBUR**  
ENGINEERING

7085 SOUTH TAMiami TRAIL  
SARASOTA FL 34236  
941.929.1552 phone



 **EAST ELEVATION**  
SCALE: 3/16" = 1'-0"



 **WEST ELEVATION**  
SCALE: 3/16" = 1'-0"

SEAL

GREGORY HALL, AIA ARO012900  
ARCHITECT OF RECORD

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DATE:	xx/xx/xxxx	xxxxxxx

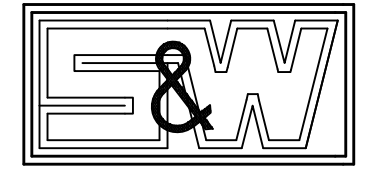
PROJECT NAME:  
**MANATEE COUNTY MEEMS RENOVATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**EXTERIOR ELEVATIONS**

SCALE: 3/16" = 1'  
SHEET NUMBER

**A3.3**



PROJECT NAME

MANATEE COUNTY  
MEDICAL EXAMINER  
OFFICE - EMS FACILITY  
RENOVATION

202 6TH AVENUE EAST  
BRADENTON, FLORIDA

ISSUED FOR

PRELIMINARY 07-27-16  
(30% PROGRESS SET)

PROJECT NUMBER

W2016-009

SIGN/SEAL

STEPHEN WILBUR, PE #2019

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY RTR

CHECKED BY SW

DATE 07-27-16

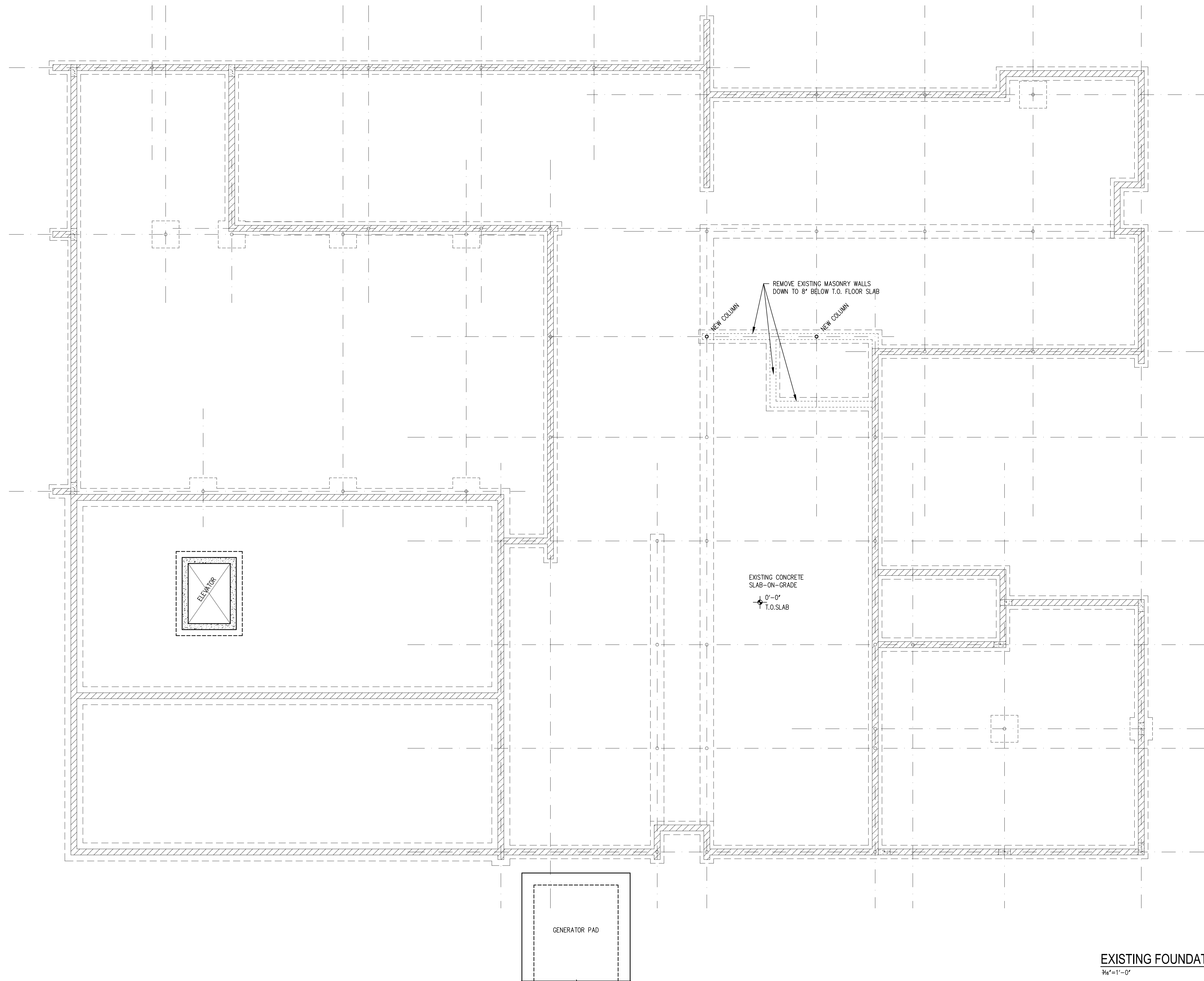
PLOT SCALE 3/16"=1'-0"  
THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

EXISTING  
FOUNDATION PLAN

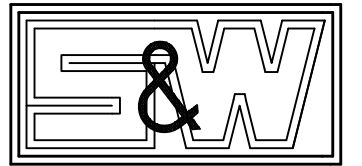
SHEET NUMBER

S1.1



EXISTING FOUNDATION PLAN  
3/16"=1'-0"  
NORTH

X:\2016\2016-009\51.dwg, 7/27/2016 7:02:59 AM, 0.187512



PROJECT NAME

MANATEE COUNTY  
MEDICAL EXAMINER  
OFFICE - EMS FACILITY  
RENOVATION

202 6TH AVENUE EAST  
BRADENTON, FLORIDA

ISSUED FOR

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STEPHEN WILBUR, PE #2019

REVISIONS

NO.	ITEM	DATE
1		

DRAWN BY RTR

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DATE 07-27-16

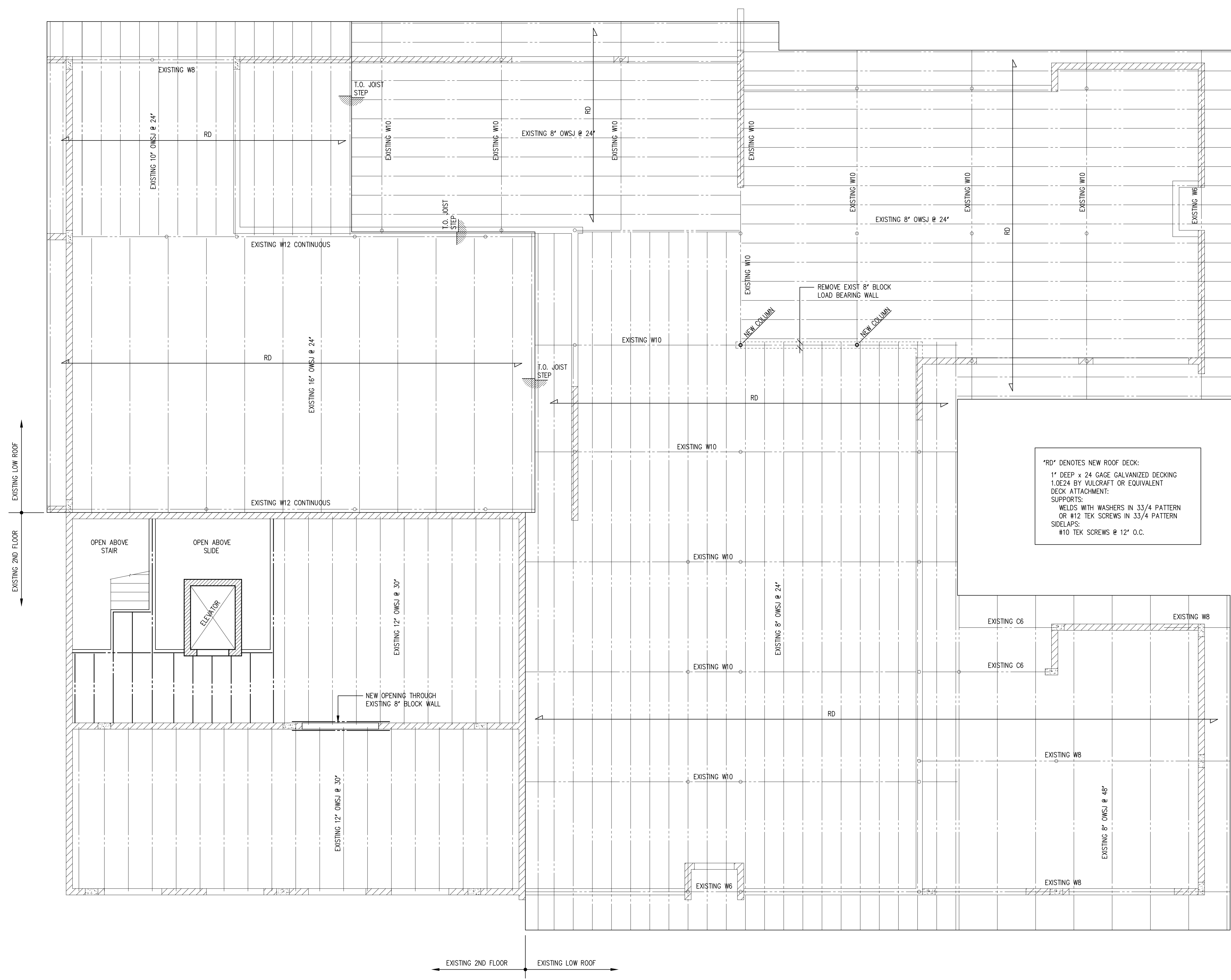
PLOT SCALE 3/16"=1'-0"  
THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

EXISTING  
2ND FLOOR / LOW ROOF  
FRAMING PLAN

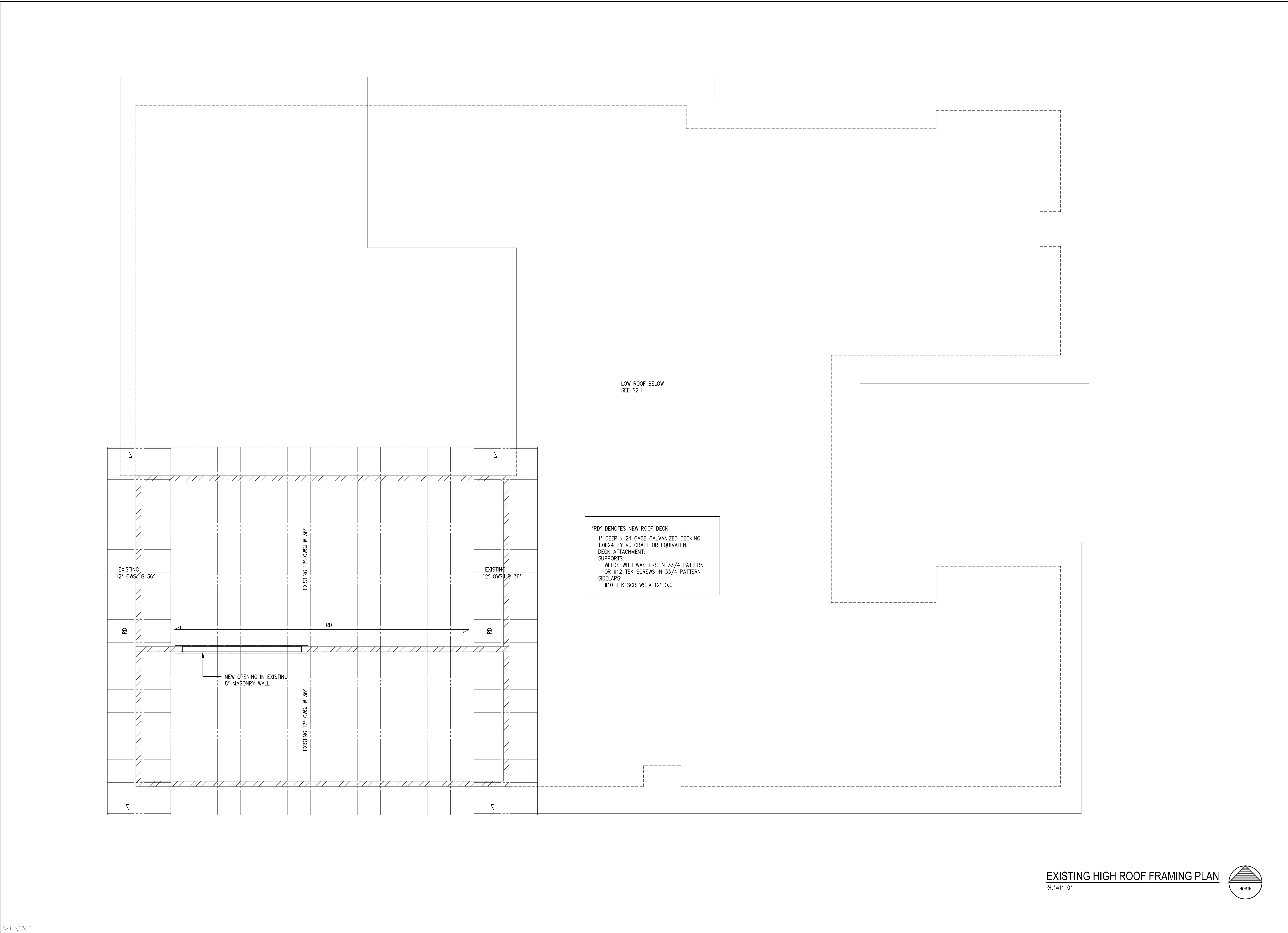
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S2.1



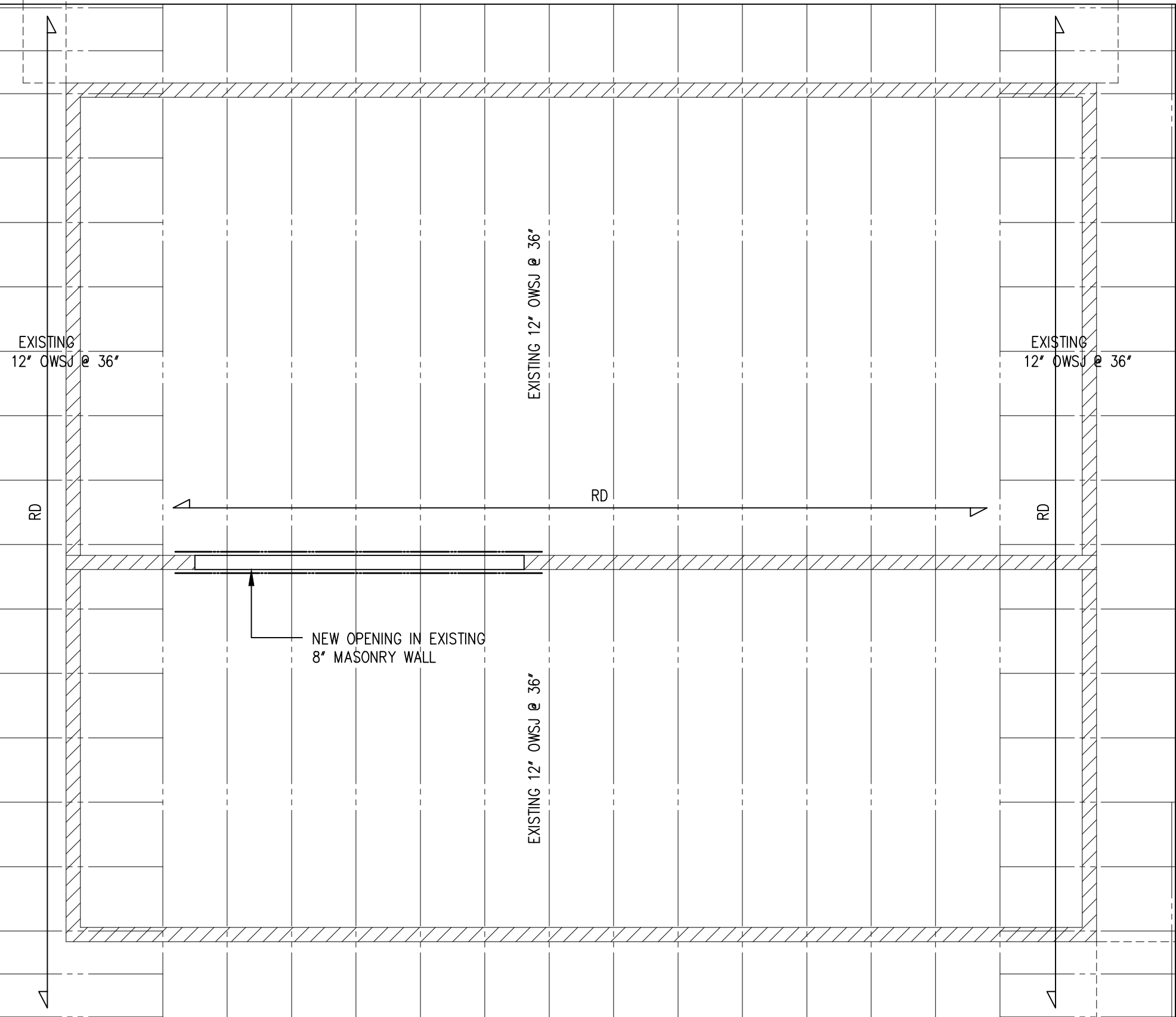
EXISTING 2ND FLOOR / LOW ROOF FRAMING PLAN  
3/16"=1'-0"



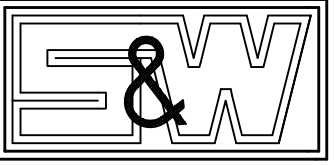


\*RD\* DENOTES NEW ROOF DECK:  
 1" DEEP x 24 GAGE GALVANIZED DECKING  
 1.0x24 BY VULCRRAFT OR EQUIVALENT  
 DECK ATTACHMENT:  
 SUPPORTS:  
 WELDS WITH WASHERS IN 33/4 PATTERN  
 OR #12 TEK SCREWS IN 33/4 PATTERN  
 SIDELAPS:  
 #10 TEK SCREWS @ 12" O.C.

LOW ROOF BELOW  
 SEE S2.1



STIRLING & WILBUR  
 ENGINEERING GROUP



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 PHONE (941) 929-1552 FAX (941) 929-1553  
 email: cad@stirlingwilbur.com  
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 EB6482

PROJECT NAME  
**MANATEE COUNTY  
 MEDICAL EXAMINER  
 OFFICE - EMS FACILITY  
 RENOVATION**  
 202 6TH AVENUE EAST  
 BRADENTON, FLORIDA

ISSUED FOR  
**PRELIMINARY 07-27-16**  
 (30% PROGRESS SET)

PROJECT NUMBER  
**W2016-009**

SIGN/SEAL

STEPHEN WILBUR, PE #2019

REVISIONS

NO.	ITEM	DATE

DRAWN BY: RTR  
 CHECKED BY: SW  
 DATE: 07-27-16  
 PLOT SCALE: 3/16"=1'-0"  
 THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE  
**EXISTING HIGH ROOF  
 FRAMING PLAN**

SHEET NUMBER  
**S2.2**

EXISTING HIGH ROOF FRAMING PLAN  
 3/16"=1'-0"

X:\2016\016-009\S2.dwg, 7/27/2016 6:46:58 AM, C:\P12

\std\D316



## LEGENDS, GENERAL NOTES AND ABBREVIATIONS

### ABBREVIATIONS

AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BOT	BOTTOM
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DEW POINT
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ENERGY CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ET	EXPANSION TANK
EL	ELEVATION
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
FDR	FIRE DAMPER
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FL	FLOOR
FPI	FINS PER INCH
FPF	FETS PER FOOT
PFM	FEET PER MINUTE
G	GUARD
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDITY
HB	HOSE BIBB
HC	HEATING COIL
HE	HEAT EXCHANGER
HP	HORSE POWER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MAX	MAXIMUM
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
OA	OUTSIDE AIR
OS&Y	OUTSIDE SCREW & YOKE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PRESS	PRESSURE
RA	RETURN AIR
RD	ROOF DRAIN
RL	RAIN LEADER
RTU	ROOF TOP UNIT
S	SANITARY
SDPR	SMOKE DAMPER
SA	SUPPLY AIR
SP	STATIC PRESSURE
TCC	TEMPERATURE CONTROL CONTRACTOR
T	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THRU ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEANOUT

### DUCTWORK

	UP		DN	SUPPLY DUCT (UP & DOWN)
	UP		DN	EXHAUST DUCT (UP & DOWN)
	UP		DN	RETURN AIR DUCT (UP & DOWN)
				CEILING DIFFUSERS
				SIDE WALL REGISTER OR GRILLE
				RETURN OR EXHAUST CEILING GRILLE
				EXHAUST OR RETURN WALL MTD GRILLE
	10x8			NEW DUCT - WIDTH X DEPTH (SINGLE LINE)
				EXISTING DUCT TO REMAIN (SINGLE LINE)
				EXISTING DUCT TO BE REMOVED (SINGLE LINE)
				FLEXIBLE DUCTWORK (INSULATED) (SINGLE LINE)
				SPIN-IN FITTING (SINGLE LINE)
				DUCT SIZE TRANSITION (CONCENTRIC) (SINGLE LINE)
				DUCT SIZE TRANSITION (ECCENTRIC) (SINGLE LINE)
				DUCT TRANSITION (RECTANGULAR TO ROUND) (SINGLE LINE)
				ACOUSTICALLY LINED DUCT
				INCLINED RISE, IN DIRECTION OF AIR FLOW
				INCLINED DROP, IN DIRECTION OF AIR FLOW
				FLEXIBLE CONNECTION
				LOUVER
				MANUAL VOLUME DAMPER
				FIRE DAMPER
				SMOKE DAMPER
				FIRE / SMOKE DAMPER
				SMOKE DETECTOR
				DUCT HEATER
				VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
				VANED ELBOW (SHORT RADIUS)
				STANDARD RADIUS ELBOW
				VANE TURN ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
				THERMOSTAT / TEMPERATURE SENSOR
				HUMIDISTAT / HUMIDITY SENSOR
				UNDERCUT (1" U.O.N.)
				DOOR GRILLE (18"x12" U.O.N.)
	A			AIR DEVICE TYPE
	100			AIR FLOW CFM
	6"			NECK SIZE
				4-WAY AIR FLOW
				3-WAY AIR FLOW
				2-WAY AIR FLOW
				1-WAY AIR FLOW

### PIPING

	CWS	CONDENSER WATER SUPPLY
	CWR	CONDENSER WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	CHWR	CHILLED WATER RETURN
	CD	CONDENSATE LINE
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	RHG	REFRIGERANT HOT GAS
	HWS	HOT WATER SUPPLY
	HWR	HOT WATER RETURN
		DOMESTIC WATER
		GATE VALVE
		GLOBE VALVE
		CHECK VALVE
		BALL VALVE
		PLUG VALVE
		PRESSURE REDUCING VALVE
		2-WAY CONTROL VALVE
		3-WAY MODULATING CONTROL VALVE
		SAFETY OR PRESSURE RELIEF VALVE
		MANUAL AIR VENT
		BUTTERFLY VALVE
		HOSE BIBB
		ANGLE GLOBE VALVE
		MOTOR OPERATED GATE VALVE
		MOTOR OPERATED GLOBE VALVE
		TEST PLUG (PRESSURE / TEMPERATURE)
		OUTSIDE SCREW & YOKE (O S & Y)
		DIRECTION OF FLOW
		ANCHOR
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		TOP CONNECTION, 45 OR 90 DEG.
		BOTTOM CONNECTION, 45 OR 90 DEG.
		SIDE CONNECTION
		CAPPED OUTLET
		RISE OR DROP IN PIPE
		UNION
		STRAINER
		THERMOMETER
		PRESSURE GAGE
		WATER FLOW MEASURING DEVICE
		EXISTING PIPE TO BE REMOVED

### DRAWING SYMBOLS

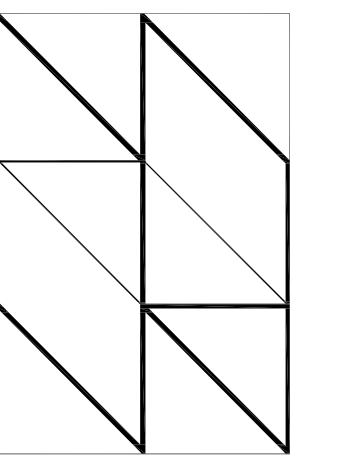
	2	DETAIL NUMBER
	FP5	DRAWING NUMBER WHERE DRAWN
	A	SECTION LETTER
	FP5	DRAWING NUMBER WHERE DRAWN
		POINT OF INTERFACE BETWEEN NEW & EXISTING P.O.C.
		POINT OF DEMOLITION P.O.D.
		POINT OF INTERFACE BETWEEN CONTRACTORS

### GENERAL NOTES

- HVAC WORK CONSISTS OF DEMOLITION, PROVIDING AND INSTALLING AIR CONDITIONING SYSTEMS FOR A COMPLETE OPERATING SYSTEM AND AS INDICATED ON THE DRAWINGS. ALL WORK SHALL COMPLY WITH APPLICABLE CODES IN SPECIFICATIONS. IT IS THE INTENTION OF THE CONTRACTOR DRAWINGS AND SPECIFICATIONS TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY FOR OPERATION.
- TEST AND BALANCE SHALL BE PROVIDED BY A COMPANY SPECIALIZING IN THE TESTING AND BALANCING OF HVAC SYSTEMS AS SUBCONTRACTOR TO THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. THE TEST AND BALANCE CONTRACTOR SHALL BE A MEMBER OF EITHER AABC OR NEBB.
- DUCT DIMENSIONS SHOWN ON THE DRAWINGS ARE CLEAR INSIDE AIR PASSAGE DIMENSIONS.
- PROVIDE SPIN-IN FITTINGS AT ALL FLEXIBLE DUCT RUNOUTS TO DIFFUSERS WITH AIR EXTRACTOR AND DAMPER.
- MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6'-0". ALL EXPOSED DUCT WORK WITHOUT CEILINGS SHALL HAVE HARD METAL ROUND DUCT TO THE DIFFUSERS AND GRILLES.
- ALL PIPING SUBJECT TO THERMAL EXPANSION AND/OR CONTRACTION THAT PENETRATES A SMOKE, FIRE, OR FIRE/SMOKE WALL, PARTITION, OR FLOOR SLAB SHALL BE SUITABLY SLEEVED AND FIRE SAFED.
- METAL DUCTS WHICH PENETRATE 1 HOUR RATED FIRE WALLS AND ARE LESS THAN 100 SQUARE INCHES SHALL EXTEND A MINIMUM OF 5 FEET ON BOTH SIDES OF THE WALL WITHOUT AN OPENING (TO PRECLUDE THE REQUIREMENT OF A FIRE DAMPER). DUCTWORK SHALL IN NO CASE BE LIGHTER (TO PRECLUDE THE REQUIREMENT OF A FIRE DAMPER). DUCTWORK SHALL IN NO CASE BE LIGHTER THAN 24 GAUGE STEEL.
- PROVIDE IDENTIFICATION OF THE LOCATION OF ALL FIRE AND BALANCING DAMPERS. IDENTIFICATION TAGS SHALL BE AFFIXED TO THE WALLS OR CEILINGS AND SHALL BE VISIBLE FROM THE OCCUPIED SPACE.
- ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS.
- INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
- CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, PENETRATIONS FOR PIPES, CONDUITS, OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, ROOF, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE RESISTANCE RATING FIRE STOP MATERIAL. FIRE STOP SEALANTS SHALL BE UL LISTED. APPLY FIRE STOP AS RECOMMENDED BY THE MANUFACTURER AND IN ACCORDANCE WITH ITS LISTING TO MEET OR EXCEED THE FIRE RATING OF THE ASSEMBLY IN WHICH IT IS INSTALLED.
- ALL INSULATION SHALL BE FIRE RATED IN ACCORDANCE WITH ASHRAE 90A 50/25 SMOKE DEVELOPMENT AND FLAME SPREAD REQUIREMENTS. INSULATION "R" VALUES SHALL COMPLY WITH THE FLORIDA ENERGY CODE. MIN. R 6.0.
- MOUNT ALL SPACE THERMOSTATS AND/OR SENSORS 4 FEET ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- INSTALL DUCT MOUNTED SMOKE DETECTORS (FURNISHED BY DIVISION 16) IN RETURN AIR DUCTWORK CONNECTED TO EACH A/C UNIT. WIRE DUCT MOUNTED SMOKE DETECTORS SUCH THAT ACTIVATION WILL DE-ENERGIZE AIR HANDLING UNIT FAN. LOCATE DUCT MOUNTED SMOKE DETECTORS THE REQUIRED DISTANCE DOWNSTREAM FROM BENDS OR INLETS AS RECOMMENDED BY THE MANUFACTURER.
- AIR HANDLING UNITS SHALL BE SHUT DOWN BY THE FIRE ALARM SYSTEM. WIRE THROUGH FIRE ALARM RELAY CONTACT (PROVIDED BY THE FIRE ALARM CONTRACTOR) TO SHUT DOWN AIR HANDLING UNITS UPON FIRE ALARM ACTIVATION. COORDINATE WITH FIRE ALARM CONTRACTOR ACCORDINGLY. WHEN AIR HANDLING UNITS SHUT DOWN FOR FIRE ALARM OR MAINTENANCE, INTERLOCKED EXHAUST FANS SHALL ALSO SHUT DOWN.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL AIR DEVICES LOCATED IN THE CEILING.
- SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
- UNLESS OTHERWISE NOTED, INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO THE BOTTOM OF THE STRUCTURE. COORDINATE ELEVATION AND LOCATION WITH RAIN LEADERS, WATER PIPING, PLUMBING VENTS, AND MAJOR ELECTRICAL CONDUITS OR CABLE TRAY.
- PROVIDE MOTORIZED DAMPERS IN ALL OUTSIDE AIR DUCTS.
- PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL AIR HANDLING UNITS.
- ROUTE FULL SIZE (MIN. 1") COPPER DRAIN PIPE FROM EACH AHU/ RTU DRAIN PAN TO RESPECTIVE FLOOR DRAIN. INSULATE WITH 3/4" ARMSTRONG "ARMAFLEX" INSULATION.
- THE WORK INDICATED ON THESE DRAWINGS IS GENERALLY DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF DUCTWORK AND EQUIPMENT, ETC.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF THREE (3) YEARS FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION.
- ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS.
- ALL ROOF ATTACHED EQUIPMENT AND APPURTENANCES INCLUDED IN THE SCOPE OF THIS PROJECT ARE REQUIRED TO BE SECURED TO THE UNDERLYING BUILDING STRUCTURE. THE FASTENING SYSTEMS SHALL BE DESIGNED TO WITHSTAND A 140 MPH WIND LOAD.
- CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUTS SHEETS AT TIME OF APPLICATION.
- ALL MECHANICAL WORK SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FLORIDA MECHANICAL CODE, ENERGY CODE REQUIREMENTS LOCALLY LATEST ADOPTED EDITION.
- ALL EXTERIOR OPENINGS SHALL BE RODENT PROOFED.

### NOTE:

THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.



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SEAL

GREGORY HALL, AA ARO012900  
ARCHITECT OF RECORD

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### 30% PROGRESS SET

DATE:	xx/xx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE

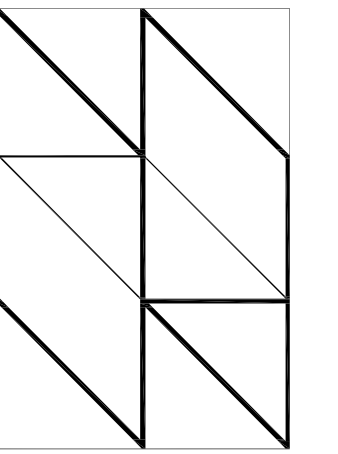
**MECHANICAL LEGEND AND**  
**GENERAL NOTES**

SCALE: NOT TO SCALE

SHEET NUMBER

**MI.0**





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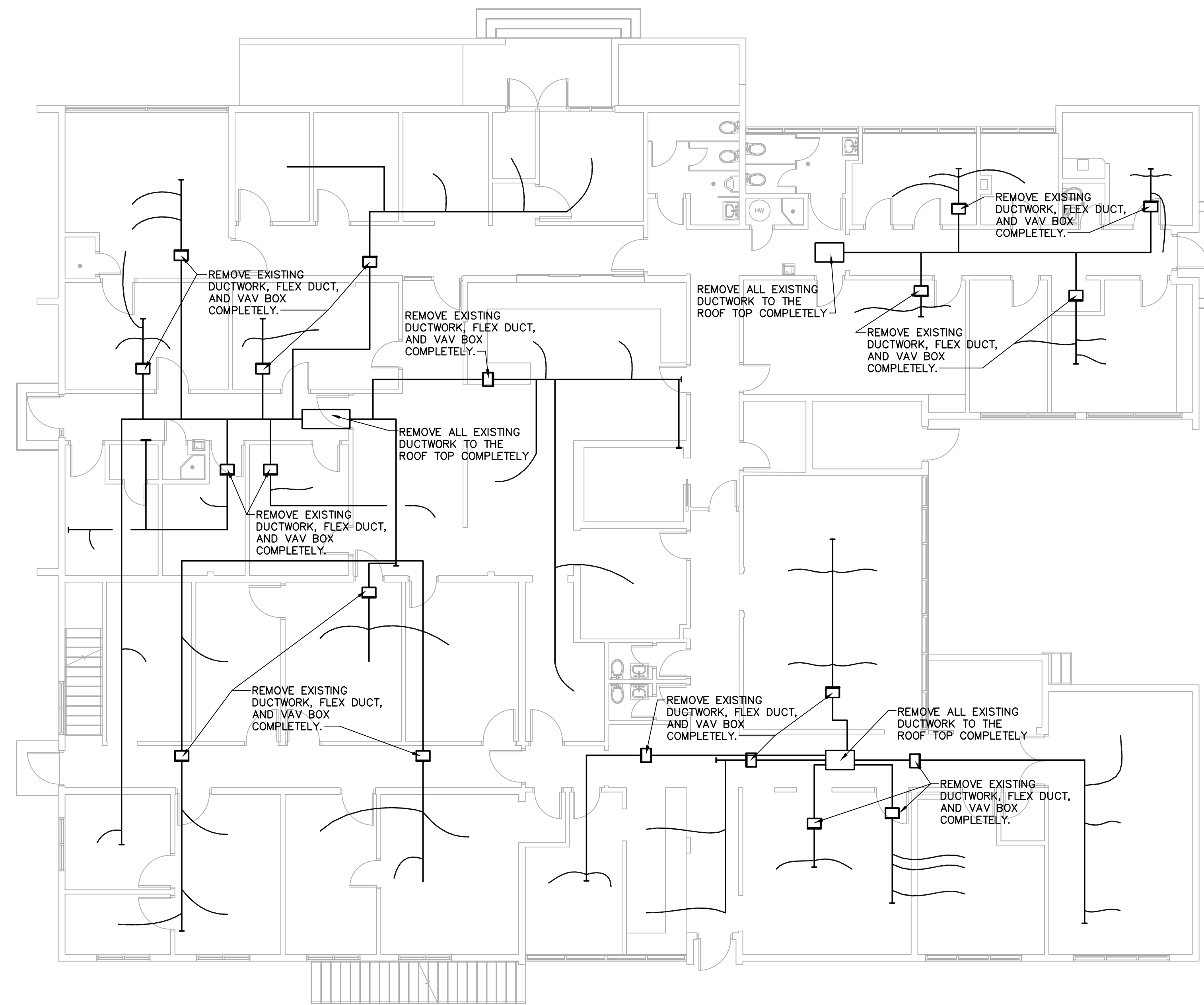
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ARCHITECT OF RECORD

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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**MECHANICAL DEMOLITION  
MORGUE AND EMS FLOOR PLAN**

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

SHEET NUMBER

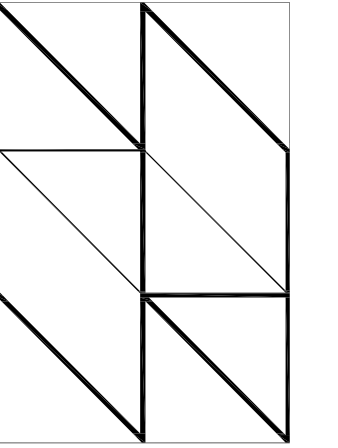
**M2.0**



1  
M2.0

**MECHANICAL DEMOLITION MORGUE AND EMS FLOOR PLAN**

1/8"=1'-0"



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AA26000923

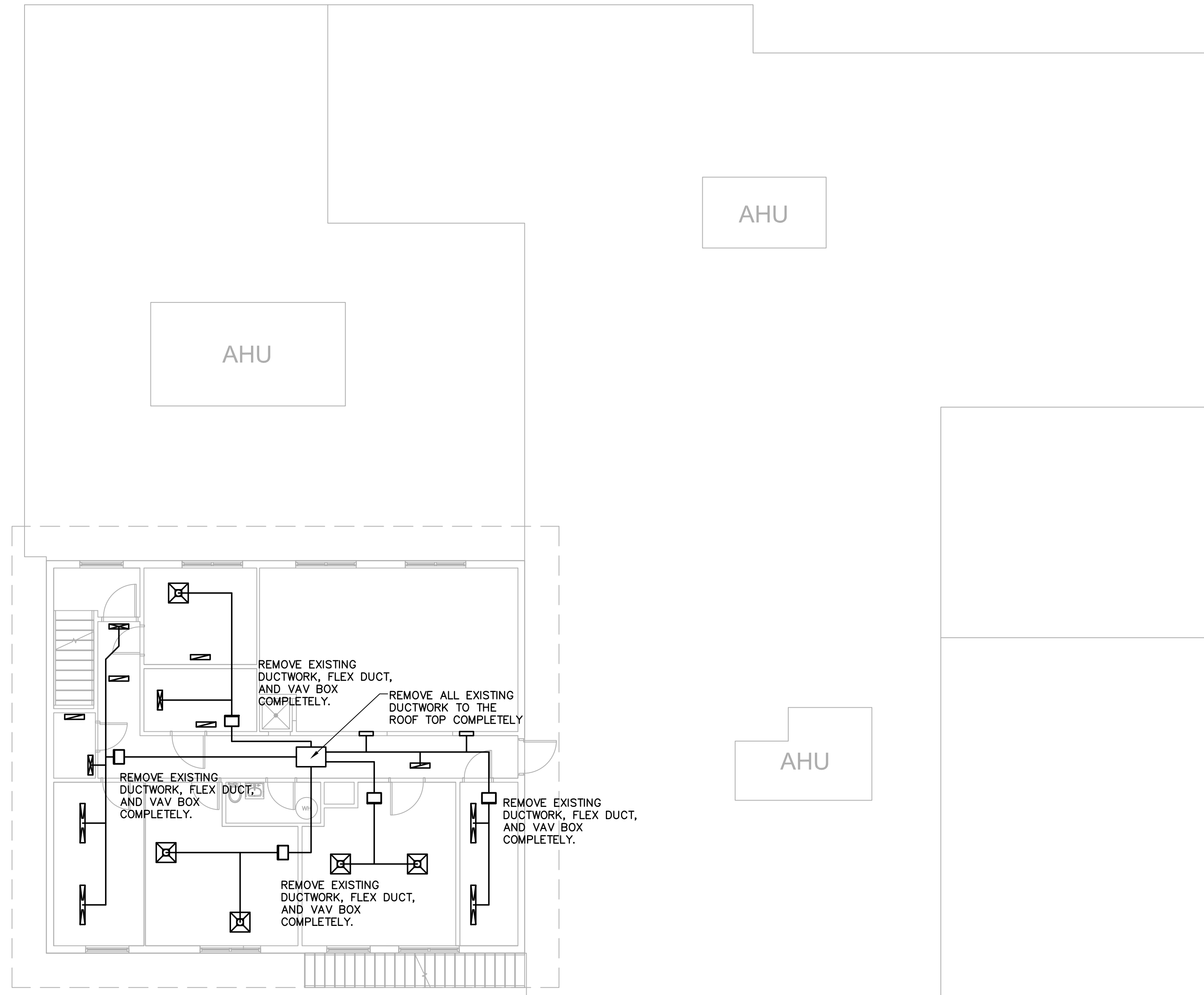
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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**MECHANICAL DEMOLITION**  
**EMS 2ND FLOOR PLAN**

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

SHEET NUMBER

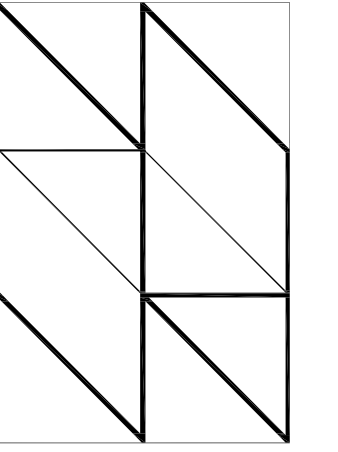
**M2.2**



1  
M2.2

**MECHANICAL DEMOLITION EMS 2ND FLOOR PLAN**

1/8"=1'-0"



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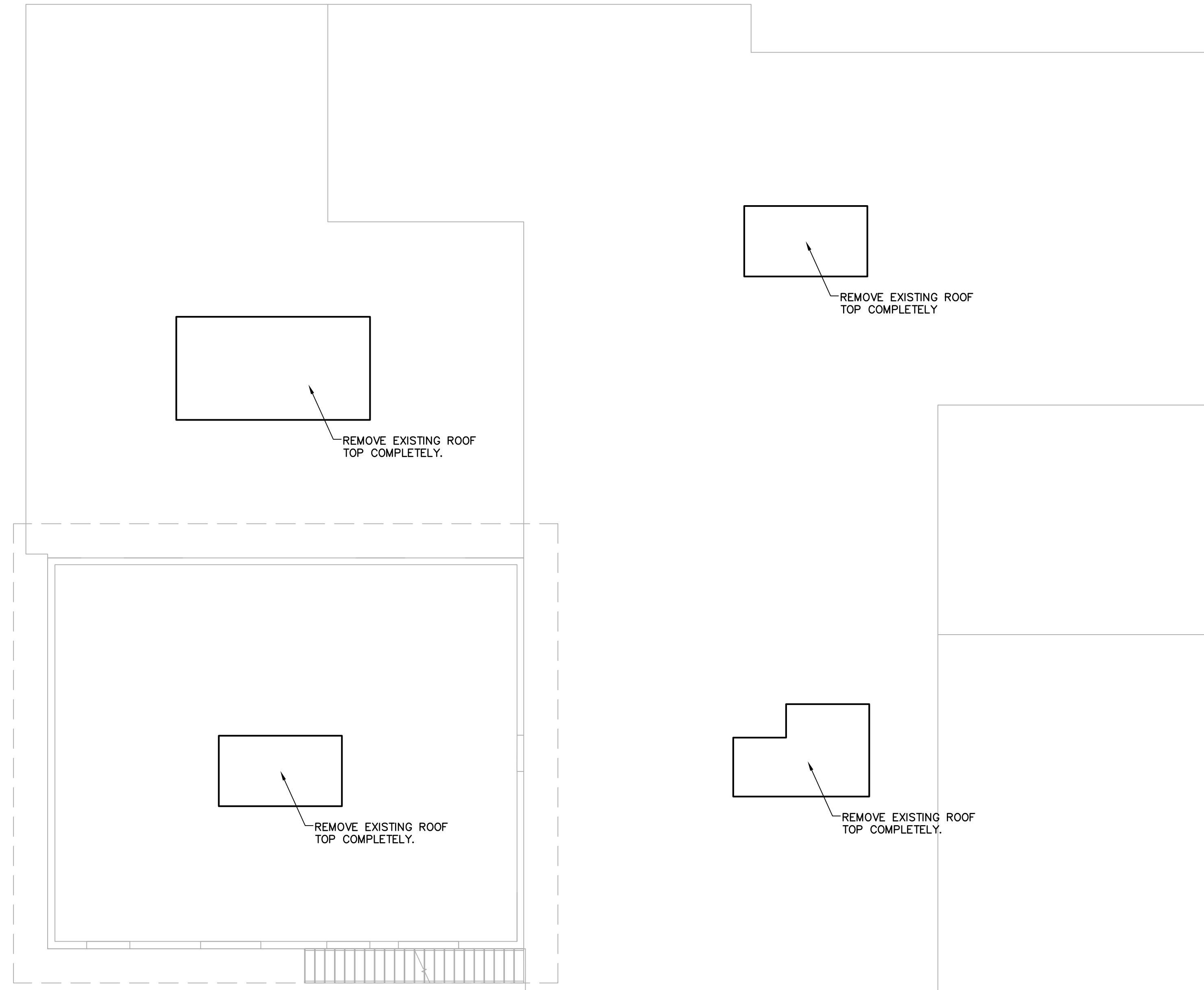
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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**MECHANICAL ROOF  
DEMOLITION FLOOR PLAN**

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

SHEET NUMBER

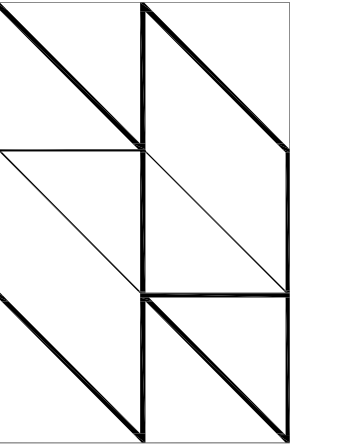
**M2.4**



1  
M2.4

**MECHANICAL ROOF DEMOLITION FLOOR PLAN**

1/8"=1'-0"



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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

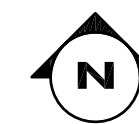
202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**MECHANICAL PROPOSED**  
**ROOF FLOOR PLAN**

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

SHEET NUMBER

**M2.5**



1  
M2.5

**MECHANICAL PROPOSED ROOF FLOOR PLAN**

1/8"=1'-0"

PACKAGED ROOFTOP HVAC UNIT SCHEDULE (ELECTRIC)																																		
TAG NO.	AREA SERVED	NOMINAL TONS	EVAPORATOR DATA			REFRIGERANT TYPE	EVAPORATOR COIL DATA										CONDENSER		COMPRESSOR			HEATING DATA				FILTER DATA		ELECTRICAL DATA			MANUFACTURER	MODEL NO.	WEIGHT	REMARKS
			CFM	EXT. S.P. IN. WG.	HP		E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	TOTAL MBH	SENSIBLE MBH	COIL FACE AREA	ROWS	FINS/INCH	AMBIENT TEMP °F	FAN HP	QTY.	STAGES	LRA	MBH OUTPUT	KW	STAGES	TEMP. RISE	TYPE	EFF %	VOLTS	PHASE	HERTZ					
RTU-1	MORG. OFFICE	5	2000	.8	1.5	R410A	76	66.3	57.4	56.5	61.4	40.08		3	----	95	1.5	1	1	110	40.9	12.0	3	19	2"	8	208	3	60	CARRIER	50TC-A06A2B5	728	1-6	
RTU-4	1ST FL EMS	2.5	960	.4	1/2	R410A	76.3	65.9	59.1	56.6	27.8	17.8		3	----	95	3/4	1	1	57	18.4	5.4	3	17.8	2"	8	208	3	60	CARRIER	50VL-C30-3-TP	336	1-5,7	
RTU-5	2ND FL BDR	3.5	1415	.4	1.5	R410A	79.9	68.8	57.5	57.5	38.1	34.2		3	----	95	3/4	1	1	109	25.6	7.5	3	17	2"	8	208	3	60	CARRIER	50VL-C42-3TP	413	1-5,8	
RTU-6	2ND FL DAY	4	1600	.5	1.0	R410A	77.6	66.6	60	57.4	46.6	30.4		3	----	95	1.5	1	1	83	40.9	6.5	2	13	2"	8	208	3	60	CARRIER	50TC-A05A2B5	661	1-5,9	
RTU-7	OPEN AC	3	1200	.5	3/4	R410A	76.9	66	59	57.0	34.1	23.2		3	----	95	1.5	1	1	73	16.7	4.9	2	13	2"	8	208	3	60	CARRIER	50TC-A04A2B5	438	1-5,10	
RTU-8	OPEN AC	4	1600	.5	1.0	R410A	76.6	65.5	59	56	45.5	30.5		3	----	95	1.5	1	1	83	40.9	6.5	2	13	2"	8	208	3	60	CARRIER	50TC-A05A2B5	661	1-5,9	
RTU-9	OPEN AC	3	1200	.5	3/4	R410A	76.4	65.2	58.4	56.2	33.4	23.4		3	----	95	1.5	1	1	73	16.7	4.9	2	13	2"	8	208	3	60	CARRIER	50TC-A04A2B5	438	1-5,10	

- NOTES:
- UNIT SIZED AT COOLING COIL AT 95°F CONDENSING TEMP.
  - UNIT SUPPLIED WITH DISCONNECT SWITCH, MOTORIZED OA DAMPER, PROGRAMMABLE THERMOSTAT, 14" HIGH ROOF CURB, SCREEN INTAKE HOOD, MFR ISOLATION ROOF CURB, FRAMES AND RACKS FOR 2" DISPOSABLE FILTERS, TWO SETS OF 2" THROWAWAY FILTERS, SCR CONTROLLED STEPS OF ELECTRIC HEAT.
  - UNIT SUPPLIED WITH HIGH CAPACITY EVAP. COIL AND MEDIUM STATIC HIGH EFFICIENCY MOTOR, AND RECEPTACLE.
  - UNIT SHALL BE ARRANGED FOR SINGLE POINT ELECTRICAL CONNECTION AND BACNET CONTACTS FOR READOUT OF UNIT TEMPERATURE AND ON/OFF.
  - COLOR OF UNIT SHALL BE AS SELECTED BY ARCHITECT.
  - UNIT MCA 49 AMPS, MOCP 50 A. DISCONNECT FLA 44A. SEER 13
  - UNIT MCA 37.1 AMPS, MOCP 40 A. SEER 14.
  - UNIT MCA 49.9 AMPS, MOCP 50 A. SEER 14.
  - UNIT MCA 30 AMPS, MOCP 30 A. SEER 13.
  - UNIT MCA 24 AMPS, MOCP 30 A. SEER 13.

GRILLE, REGISTER AND DIFFUSER SCHEDULE EXISTING + NEW											
TAG NO.	PATTERN	NECK SIZE	MODULE SIZE	FRAME STYLE	MATERIAL	FINISH	CFM RANGE	ACCESSORIES	MANUFACTURER	MODEL NO.	REMARKS
S-1	4 WAY	6ø	24X24	T BAR	ALUM	WHITE	0-155	OBD	METALAIR	7500-6	1,2
S-2	4 WAY	8ø	24X24	T BAR	ALUM	WHITE	140-280	OBD	METALAIR	7500-6	1,2
S-3	4 WAY	10ø	24X24	T BAR	ALUM	WHITE	165-410	OBD	METALAIR	7500-6	1,2
S-4	4 WAY	12ø	24X24	T BAR	ALUM	WHITE	235-700	OBD	METALAIR	7500-6	1,2
S-5	4 WAY	6ø	24X24	SURF	ALUM	WHITE	0-155	OBD	METALAIR	7500-1AF	1,2
S-6	4 WAY	8ø	24X24	SURF	ALUM	WHITE	140-280	OBD	METALAIR	7500-1AF	1,2
S-7	4 WAY	10ø	24X24	SURF	ALUM	WHITE	165-410	OBD	METALAIR	7500-1AF	1,2
S-8	4 WAY	8X4	10X6	SURF	ALUM	WHITE	0-200	OBD	METALAIR	V-4004-1	1,2
S-9	4 WAY	10X6	12X8	SURF	ALUM	WHITE	100-300	OBD	METALAIR	V-4004-1	1,2
S-10	4 WAY	12X8	14X10	SURF	ALUM	WHITE	150-600	OBD	METALAIR	V-4004-1	1,2
R-1	PERF	8ø	24X24	TBAR	ALUM	WHITE	0-240	OBD	METALAIR	7500R-6	1,2
R-2	PERF	10ø	24X24	TBAR	ALUM	WHITE	165-430	OBD	METALAIR	7500R-6	1,2
R-3	PERF	12ø	24X24	TBAR	ALUM	WHITE	235-700	OBD	METALAIR	7500R-6	1,2
R-4	PERF	8ø	24X24	SURF	ALUM	WHITE	0-240	OBD	METALAIR	7500R-1AF	1,2
R-5	PERF	10ø	24X24	SURF	ALUM	WHITE	165-430	OBD	METALAIR	7500R-1AF	1,2
R-6	PERF	12ø	24X24	SURF	ALUM	WHITE	235-700	OBD	METALAIR	7500R-1AF	1,2
R-7	35°	10X6	12X8	SURF	ALUM	WHITE	0-300	OBD	METALAIR	RH-1	1,2
R-8	35°	12X8	14X10	SURF	STEEL	WHITE	150-500	OBD	METALAIR	RH-1	1,2
R-9	35°	12X12	14X14	SURF	STEEL	WHITE	200-600	OBD	METALAIR	RH-1	1,2
E-1	35°	10X6	12X8	SURF	STEEL	WHITE	0-300	OBD	METALAIR	RH-1	1,2
E-2	35°	12X8	14X10	SURF	STEEL	WHITE	150-500	OBD	METALAIR	RH-1	1,2
E-3	35°	12X12	14X14	SURF	STEEL	WHITE	200-600	OBD	METALAIR	RH-1	1,2
E-4	35°	18X12	20X14	SURF	STEEL	WHITE	300-750	OBD	METALAIR	RH-1	1,2
T-1	35°	12X6	14X8	SURF	STEEL	WHITE	0-350	OBD	METALAIR	RH-1	1,2
T-2	35°	12X8	14X10	SURF	STEEL	WHITE	150-500	OBD	METALAIR	RH-1	1,2

- NOTES:
- PROVIDE DIFFUSER AND GRILLE COLOR AS SELECTED BY ARCHITECT. COORDINATE LOCATION WITH THE ARCH. REFLECTED CEILING PLANS FOR HARD SURFACE OR T-BAR CEILING, AND OPEN AREAS. ALL OPEN AREA GRILLES SHALL BE SUPPORTED FROM TWO STRIPS OFF OF THE EXISTING STRUCTURE.
  - PROVIDE AND INSTALL A RECTANGULAR TO ROUND TRANSITION BOX FOR ALL NEW GRILLES IF NOT SUPPLIED WITH THE UNIT.

AIR COOLED CONDENSER SCHEDULE - IT UNIT																					
Tag No.	Equipment Location	Area Served	Capacity MBH	Refrigerant Type	Operating Charge LBS	E.E.R.	Compressors				Motor			Electrical Data				Manufacturer	Model No.	Weight	Remarks
							Expansion Type	No.	HP/KW Each	Unload Steps	No. of Fans	HP/KW Each	RPM	Volts	Phase	Hertz	Min. fan Speed				
CU-1	ROOF	IT	12	R410A	--	15	STD	1	--	ONE	1	.5 FLA	----	208	1	60	----	CARRIER	40MFC012-3	71	1,2,3,4

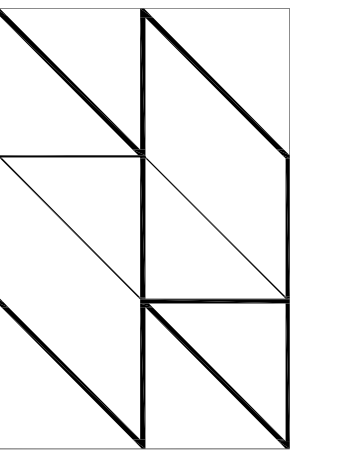
NOTES:

- MCA 10 A (208/1PH), MOCP 16 A, ONE CONNECTION, DISCONNECT BY EC. DC WIRING REQUIRED TO EVAP UNIT BY EC, AND MC FINAL CONNECTION.
- COORDINATE LOCATION WITH ARCHITECT. PROVIDE AND INSTALL SUPPORT FOR NEW UNIT, TIE DOWNS, WALL PIPE PENETRATION, VIBRATION ISOLATORS, CONCRETE PAD BY MC.
- UNIT IS MATCHED TO FANCOIL IN SPACE. TIE TO UNIT AS INSTRUCTED BY MANUFACTURER TO PROVIDE FINAL PIPING ARRANGEMENT AND SIZING.
- PROVIDE SPARE CONTACTS FOR TEMPERATURE ALARM ON UNIT FOR HIGH TEMPERATURE FOR TIE IN TO THE TEMPERATURE CONTROL SYSTEM.

FAN COIL UNIT SCHEDULE		
ITEM	---	FC-1
TOTAL SUPPLY AIR	CFM	240
STATIC PRES. EXT.	IN. WTR.	----
MOTOR, UNIT MCA-- NO ELECT HT.	DC	4 WIRE
ELECTRICAL	V/PH/HZ	----
COOLING COIL--COOLING ONLY		.2 A/ 24W
TOTAL COOLING CAPACITY	MBH	12.0
TOTAL HEATING CAPACITY	MBH	----
MANUFACTURER	----	CARRIER
MODEL NO.	----	40MFC012-3

NOTES:

- UNIT SUPPLIED WITH VIBRATION ISOLATION, STANDARD FILTER, FAN COIL DRAIN PAN, THERMOSTAT, EXPANSION VALVE, REFRIGERANT LINE SET CONNECTIONS, AND DISCONNECT. WALL FRAME, FILTER, CONDENSATE PUMP BUILT IN.
- COOLING CAPACITY RATED AT COIL ENTERING 80°F DB/67°F FWB, REFRIGERANT R410A.
- UNIT SHALL BE HAVE FILTER ACCESS, AND CONDENSATE RETURN. CONDENSATE PUMPS SHALL BE SEPARATE.
- PROVIDE LITTLE GIANT VCMA-20ULS CONDENSATE UNIT WITH SAFETY SWITCH, ALARM, AND 6 FT 120 VOLT CORD, 120V/1/60, 1.5A, 3/4 INCH PVC LINE TERMINATED IN FLOOR SINK IN THE JANITOR CLOSET.
- WEIGHT 17#, 1/4", 1/2"



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SEAL

GREGORY HALL, AIA ARO012900  
 ARCHITECT OF RECORD

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**30% PROGRESS SET**

DATE:	xxxx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

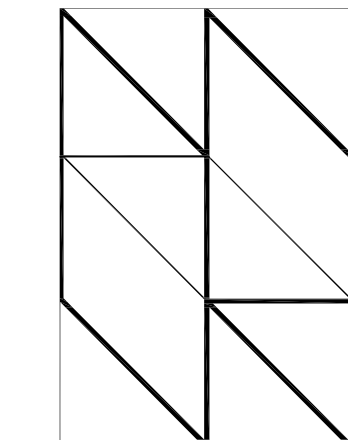
202 6TH AVENUE EAST  
 BRADENTON, FLORIDA 34208

SHEET TITLE  
**MECHANICAL SCHEDULES**

SCALE: NOT TO SCALE

SHEET NUMBER

**M3.0**



**HALL ARCHITECTS, PA**  
AA26000923

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SEAL

GREGORY HALL, AIA AROO12900  
ARCHITECT OF RECORD

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**30% PROGRESS SET**

DATE:	xxxx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE

MECHANICAL SCHEDULES

SCALE: NOT TO SCALE

SHEET NUMBER

**M3.1**

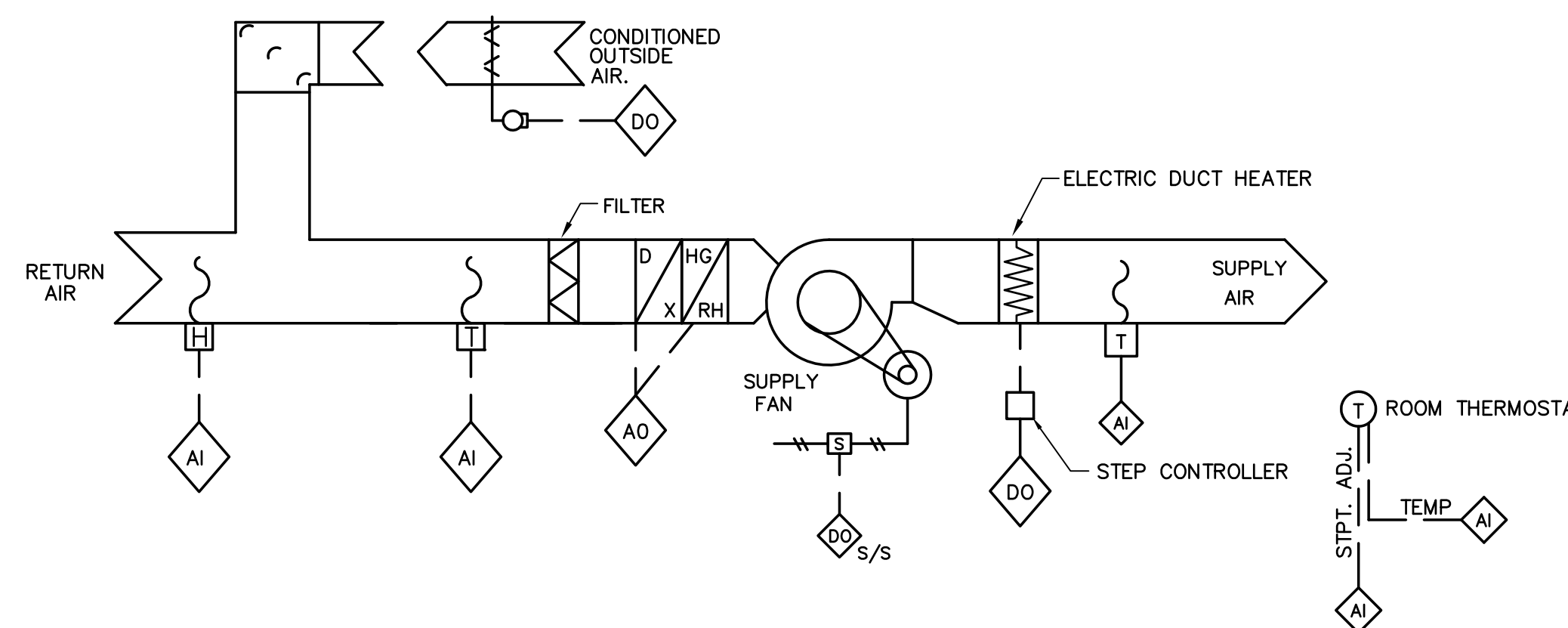
RTU		PACKAGED ROOFTOP HVAC UNIT SCHEDULE (ELECTRIC) - 100% OA, EXHAUST																															
TAG NO.	AREA SERVED	NOMINAL TONS	EVAPORATOR DATA			REFRIGERANT TYPE	EVAPORATOR COIL DATA							CONDENSER		COMPRESSOR			HEATING DATA				FILTER DATA		ELECTRICAL DATA			MANUFACTURER	MODEL NO.	WEIGHT	REMARKS		
			CFM	EXT. IN.	S.P. WG.		HP	E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	TOTAL MBH	SENSIBLE MBH	COIL FACE AREA	ROWS	FINS/INCH	AMBIENT TEMP °F	FAN AMP	QTY.	STAGES	RLA	MBH OUTPUT	KW	STAGES	TEMP. RISE	TYPE	MERV					VOLTS	PHASE
RTU-2	AUTOPSY	7.5	950	.75	1/3	R410A	92.4	78.9	54.3	53.8	85.6	38.5	6.8	3	10	95	1.0	1	1	187	41.9	12.3	3	33.7	2"	8	208	3	60	GREENHECK	RV-35-7.5	2586	1-17
RTU-3	LOCKER	7.5	1200	1.0	3/4	R410A	85.8	74.5	51.3	50.9	93.3	38.5	6.8	5	10	95	1.0	1	1	187	41.9	12.3	3	32.5	2"	8	208	3	60	GREENHECK	RV-35-7.5	2151	7-23

**NOTES:**

- FACTORY WIRED, AND TESTED AS A SINGLE PACKAGE. MCA 54.2 AMPS, MAX FUSE SIZE 60 AMPS. FUSED DISCONNECT UNIT WIRED WITH PHASE FAILURE RELAY. UNIT EER 11.3
- UNIT SHALL INCLUDE OUTSIDE AIR HOOD AND EXHAUST HOOD, WITH ONE TWO POSITION OA MOTORIZED DAMPER, AND COUNTER BALANCED EXHAUST DAMPER, AND METAL MESH INTAKE SCREEN. UNIT SUPPLIES 950 CFM AND EXHAUSTS 1150 CFM (EXHAUST (1) 1/8 hp MOTOR RATED AT .5 ESP). 2 CONDENSER FANS , ( 1 HP EACH)
- UNIT SHALL INCLUDE 1 STAGE COOLING.
- UNIT SHALL INCLUDE 3 STAGE UNIT MTD. HEATER WITH SAIL SWITCH, SCR CONTROLLER, AND DISCONNECT.
- UNIT SHALL INCLUDE HOT GAS REHEAT CIRCUIT AND COIL. COMPRESSOR SHUT OFF FREEZE STATS ARE NOT ACCEPTABLE, HOT GAS CIRCUIT 32.1 MBH, 54.1.DEG F ENT. 85.6 DEG. F LEAVING MAX.
- UNIT SHALL INCLUDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION. ON/OFF DEHUMIDIFICATION CIRCUITS ARE NOT ACCEPTABLE.
- DUCT MOUNTED SMOKE DETECTOR ON SUPPLY SIDE. DETECTOR BY ELECTRICAL, INSTALLED IN SHEET METAL BY MECHANICAL.
- UNIT SHALL INCLUDE MANUAL RESET HIGH PRESSURE SWITCHES AND AUTO REST LOW PRESSURE SWITCHES AND STAGED CONDENSER MOTOR HEAD PRESSURE CONTROLS AND FAN SPEED CONTROLS.
- UNIT SHALL INCLUDE 2 INCH, MERV 8 FILTERS.
- CONTROLS: DDC UNIT CONTROLLER WITH AMBIENT DEWPOINT SENSOR, ELECTRONIC SEQUENCING FOR SCROLL COMPRESSORS, HEATING, AND MODULATING HOT GAS REHEAT. THE PURPOSE OF THIS UNIT IS TO PROVIDE CONTINUOUS TWO LEVEL HEATING/ COOLING/ DEHUMIDIFICATION OF OUTSIDE AIR WHILE MAINTAINING TEMPERATURE AND EXHAUST CONTROL IN THE SPACE IT SERVES.FIELD MOUNTED CONTROLS SHALL INCLUDE A DUCT MOUNTED LEAVING AIR THERMOSTAT, AND WALL MOUNTED THERMOSTAT AND HUMIDISTAT. EXHAUST AIR HUMIDITY SENSOR. PROVIDE AN OCCUPIED/UNOCCUPIED WALL SWITCH FOR LOWER LEVEL SUPPLY AND EXHAUST. ALL UNIT MOUNTED CONTROLS FOR THE COMPLETE OPERATION SHALL BE INSTALLED BY THE EQUIPMENT MANUFACTURER. WALL MOUNTED CONTROLS SHALL BE SHIPPED WITH UNIT. REFER TO SEQUENCE OF OPERATION FOR WALL MOUNTED AND ALARM CONTROLS SUPPLIED BY THE MFR.
- UNIT SHALL HAVE A 14" HIGH FACTORY ASSEMBLED AND INSULATED ROOF ADAPTOR CURB WITH SEALS ON LOWER AND UPPER CURB CONNECTION, INSUALTE DUCTWORK AND FLEX DUCT CONNECTIONS WITH R6.0 MIN. INSULATION.
- COMPRESSORS SHALL HAVE A 5 YEAR WARRANTY, (PARTS AND LABOR).
- THE CABINET SHALL BE A 2" 1.5 # R8 INSULATED DOUBLE-WALL METAL PANEL CONSTRUCTION, STAINLESS STEEL DRAIN PAN, FACTORY E COATED COOLING , CONDENSER, AND REHEAT COILS.
- THE EXHAUST OUTLET SHALL BE AWAY FROM THE OUTSIDE INTAKE TO ALLOW FOR NO RE-CIRCULATION OF AIR. UNIT SHALL HAVE STATIC PRESSURE CONTROL AND STATIC PRESSURE SAFETY BY THE MFR.
- PROVIDE 120 V RECEPTACLE AND CIRCUIT WITH UNIT FOR SERVICE.
- PROVIDE DRY CONTACT CLOSURE FOR SMOKE MODE ONLY TO ALLOW FOR UNIT COMPLETE SHUT DOWN.
- MANUFACTURER SHALL PROVIDE 3 DAYS TRAINING AND STARTUP SERVICE.
- FACTORY WIRED, AND TESTED AS A SINGLE PACKAGE. MCA 48.2 AMPS, MAX FUSE SIZE 60 AMPS. FUSED DISCONNECT UNIT WIRED WITH PHASE FAILURE RELAY. UNIT EER 12.3
- UNIT SHALL INCLUDE OUTSIDE AIR HOOD, WITH ONE TWO POSITION OA MOTORIZED DAMPER, AND METAL MESH INTAKE SCREEN. UNIT SUPPLIES 1200 CFM AND RETURNS 455 CFM. 2 CONDENSER FANS , ( 1 HP EACH)
- UNIT SHALL INCLUDE 1 STAGE COOLING.
- UNIT SHALL INCLUDE 3 STAGE UNIT MTD. HEATER WITH SAIL SWITCH, SCR CONTROLLER, AND DISCONNECT.
- UNIT SHALL INCLUDE HOT GAS REHEAT CIRCUIT AND COIL. COMPRESSOR SHUT OFF FREEZE STATS ARE NOT ACCEPTABLE, HOT GAS CIRCUIT 34.0 MBH, 51.3.DEG F ENT. 77.5 DEG. F LEAVING MAX.
- UNIT SHALL INCLUDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION. ON/OFF DEHUMIDIFICATION CIRCUITS ARE NOT ACCEPTABLE.
- THE LOCKER ROOM UNIT SHALL BE OPERABLE AT NIGHT AS WELL AS THE AUTOPSY ROOM TO MINIMUM SET POINTS TO ALLOW FOR EXHAUST IN THE RECEIVING AND SPECIMEN AREAS.

**CONTROL POINT ABBREVIATION LEGEND**

DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
S/S	START/STOP
VFD	VARIABLE FREQUENCY DRIVE
S	REFRIGERATION SUCTION LINE
L	REFRIGERATION LIQUID LINE
T	TEMPERATURE
H	HUMIDITY
C	CO2
SP	STATIC PRESSURE
FS	FLOW SWITCH
LAT	LEAVING AIR TEMPERATURE
S	STARTER
T W	WIRELESS THERMOSTAT



**TYPICAL CONSTANT VOLUME AIR HANDLING UNIT DETAIL**  
NOT TO SCALE

**SEQUENCE OF OPERATION**

FOR EACH SYSTEM, THE TMX VALVE SHALL CONTROL TO MAINTAIN THE COOLING ROOM TEMPERATURE SETPOINT. PROVIDE A SPACE TEMPERATURE INPUT TO THE DDC. MAINTAIN THE SPACE COOLING COOLING TEMPERATURE SETPOINT (75°F ± .5°F - SOFTWARE ADJUSTABLE).

FOR A ROOM SPACE TEMPERATURE BETWEEN 72 -75' (SOFTWARE ADJUSTABLE) A DEAD BAND IS TO EXIST IN THERMOSTAT DURING THIS DEAD BAND. NO CONTROL ACTION IS TO OCCUR. UPON A DROP IN THE ROOM SPACE TEMPERATURE BELOW THE HEATING SETPOINT (71°F - SOFTWARE ADJUSTABLE) THE ELECTRIC HEATING SHALL BE ENERGIZED AND STAGED TO MAINTAIN THE ROOM HEATING SETPOINT ± .5' F.

HUMIDITY OVERRIDE SEQUENCE SHALL BE INITIATED WHEN RETURN AIR HUMIDITY EXCEEDS 60% FOR THIS SEQUENCE, THE LAT SHALL BE RESET TO 60' F (ADJUSTABLE). THE CHILLED WATER VALVE SHALL GO FULL OPEN AND THE ELECTRIC HEAT SHALL BE STAGED TO MAINTAIN THE ROOM SET POINT AND THE FRONT END COMPUTER SHALL DISPLAY "HUMIDITY OVERRIDE" FOR EACH APPLICABLE UNIT. WHEN RETURN AIR HUMIDITY REACHES SETPOINT OF 55% RETURN TO NORMAL OPERATION.

THE UNIT'S FAN SHALL OPERATE AS PER THE USER PROGRAMMABLE SCHEDULE. THE OUTSIDE AIR DAMPER SHALL BE CLOSED WHEN THE BUILDING IS NOT SCHEDULES FOR OCCUPANCY.

THE UNIT POINTS MONTORED BY THE COUNTY SYSTEM ARE TEMPERATURE, HUMIDITY, UNIT OFF/ON, AND START/STOP.

ON ONE OFFICE AHU, THE REFRIG VALVE SHALL OPEN AND THE HOT GAS REHEAT AND ELECTRIC HEAT SHALL BE STAGED TO MAINTAIN THE ROOM SET POINT AND THE FRONT END CONTROL SHALL DISPLAY "HUMIDITY OVERRIDE" FOR EACH APPLICABLE UNIT. WHEN RETURN AIR HUMIDITY REACHES SETPOINT OF 55% OR BELOW RETURN TO NORMAL OPERATION.

**Microprocessor Controller Sequence of Operation - RTU M-1**  
MICROPROCESSOR CONTROLLER: Controller shall be provided with required sensors and programming for rooftop unit. Controller shall be factory programmed, mounted and tested. Controller shall have a LCD readout for changing set points and monitoring unit operation with an Owner Bacnet interface remote signal system. Unit standard setpoint 72-74 degrees F, 50 -54% RH. Unit cooling capable down to 70 degrees F, 50 %rh.

**UNIT START COMMAND:**  
•Factory mounted and wired outdoor air damper actuators are powered.  
•exhaust backdraft air damper actuator is counter-weighted.  
•Exhaust fan starts after a 10 second (adjustable) delay.  
•Supply fan starts 5 seconds (adjustable) after exhaust fan.  
•Night setback and unoccupied can operate to 75% design air flow exhaust and supply levels

**UNIT STOP COMMAND (OR DE-ENERGIZED):**  
•Supply fan, exhaust fan, energy wheel and tempering options de-energized.  
•Outdoor air damper actuator is spring return close, and the recirculated air damper actuator is spring open.  
• exhaust backdraft damper is counterweighted (close when off)

**OCCUPIED/UNOCCUPIED MODES:** Shall be based on a 7-day time clock internal to the controller. The schedule shall be set by the end user. When a user initiates an override input, the DDC would switch from unoccupied to occupied mode. The DDC will return to the scheduled occupied/unoccupied mode after the override time has expired (60 min, adjustable). If internal time clock is disabled, a remote contact or a BMS can control the occupied/unoccupied mode.The Owner shall tie into the system with Bacnet and ALC logic control for monitor of space temperature, humidity, unit on/off , start/ stop, unit alarms, and fans adjustment speed.

- Occupied Mode:**  
1. Supply fan ON.  
2. Exhaust fan ON.  
3. Heating per below.  
4. Cooling per below.  
5. Damper control per below.

- Unit off mode Mode (Unit Off):**  
1. Supply fan OFF  
2. Exhaust fan OFF  
3. Tempering OFF  
4. Outdoor air damper closed  
5. Return damper closed  
6. Recirculation damper open

**SUPPLY BLOWER SEQUENCE:** The supply blower is provided with a factory mounted variable frequency drive. The supply blower speed can be controlled with the following sequences.  
0-10 VDC Signal by Owner: The supply and exhaust blower is modulated based upon a 0-10 VDC signal wired directly into the VFD by the mfr. The Owner shall remotely bacnet tie into the signal.  
Mechanical high static protection cutoffs shall be provided with the unit as safeties with reset.

**EXHAUST BLOWER SEQUENCE:** Autopsy, Viewing , Dark room -The exhaust blower is provided with a factory mounted VFD drive. The exhaust blower speed can be controlled with the following sequences.

**EXHAUST BLOWER SEQUENCE :** LOCKER ROOM . The exhaust for the specimen and receiving area is continuous using a separate blower than the unit supplied but interlocked with the rooftop unit. The locker room, restroom, shower, fans operate on an occupancy switch.

•Building Static Pressure Sensor: The exhaust blower is modulated based upon the signal from a building static pressure sensor (factory provided, field mounted and wired). The microprocessor controller will modulate the exhaust fan based upon a comparison of the building static pressure set point (adjustable) to the actual building static pressure level reported from the sensor.

**COOLING SEQUENCE:** The cooling is controlled to maintain the supply temperature set point. The mechanical cooling will be locked out when the outside air is < 55°F - 2°F hysteresis, adjustable.  
Packaged DX Cooling (Digital Scroll): DDC will provide a modulating signal for cooling. From 10-50%, the digital scroll will be controlled to maintain the discharge temperature. From 50-100%, the second stage will be on in combination with the digital scroll compressor to maintain the discharge temperature.

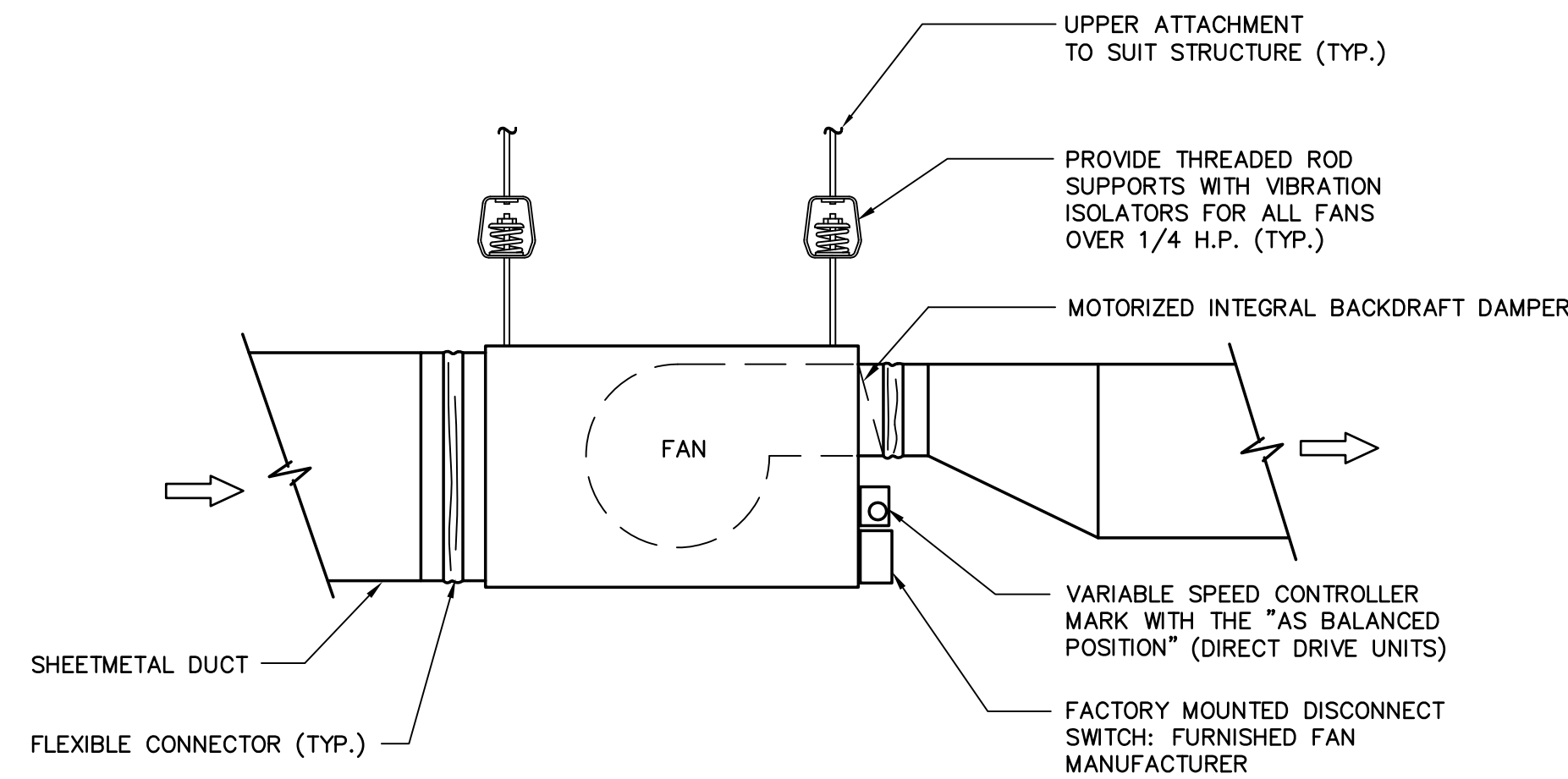
**DEHUMIDIFICATION SEQUENCE:** The cooling is controlled to maintain the cooling-coil set point. The dehumidification sequence will be locked out when the OA is <10°F above the cold-coil set point. The mechanical cooling will be locked out when the outside air is < 55°F - 2°F hysteresis, adjustable.  
Packaged DX Cooling (Digital Scroll): DDC will provide a modulating signal for dehumidification. From 10-50%, the digital scroll will be controlled to maintain the after-coil temperature. From 50-100%, the second stage will be on in combination with the digital scroll compressor to maintain the after-coil temperature.

**REHEAT SEQUENCE:** While the unit is in dehumidification mode, the outdoor air can be reheated via Primary Heating Source, On/Off Hot Gas Reheat or Modulating Hot Gas Reheat for Space Neutral Applications.  
Primary Heating Source: The main heating source is enabled to reheat the air to meet the supply temperature set point and space humidity (adj).  
Modulating Hot Gas Reheat: The controller will modulate the hot gas reheat reheat valve with a 0-10 V signal to maintain the supply temperature set point (adj).

**HEATING SEQUENCE:** The heating is controlled to maintain the supply temperature set point. The heating will be locked out when the outside air is > 70°F + 2°F hysteresis, adjustable.  
Electric Heater: DDC will modulate an electric heater to maintain the supply temperature set point (adj).

**SUPPLY SET POINT RESET FUNCTION.** Either a room temperature sensor or the outdoor air reset function (if no room temperature sensor wired to controller) will determine the supply temperature of the unit.

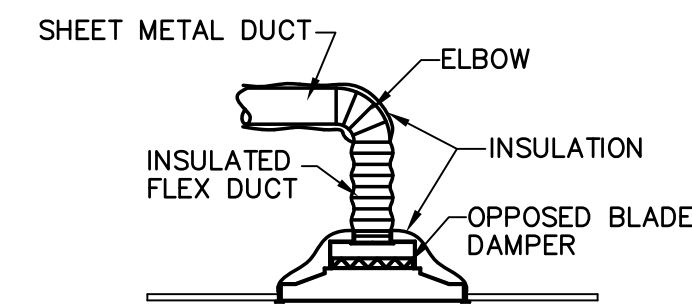
**BUILDING FREEZE PROTECTION:** If the supply air temperature drops below 35°F (adjustable), the DDC will de-energize the unit and activate the alarm output after a preset time delay.  
**ALARMS INDICATION:** DDC shall have one digital output for remote indication of an alarm condition. Possible alarms include:  
Supply and Exhaust Air Alarm: DDC monitors proving switch on each blower and displays an alarm in case of blower failure.  
DX Alarm: DDC monitors the refrigerant pressure and shuts off refrigeration circuit in the case of high or low refrigerant pressure.  
Temperature and Humidity Sensor Alarm: DDC will send an alarm in the case of a failed air temperature sensor.  
Pressure Sensor Alarm: DDC will send an alarm in the case of a failed pressure sensor.  
Phase and Brown Out Protection: Factory mounted and wired component which monitors the main power coming into the unit. If a phase drops out or exceeds the limitations, or if the incoming voltage exceeds the acceptable range, the component will turn off the unit to help protect the electrical systems.



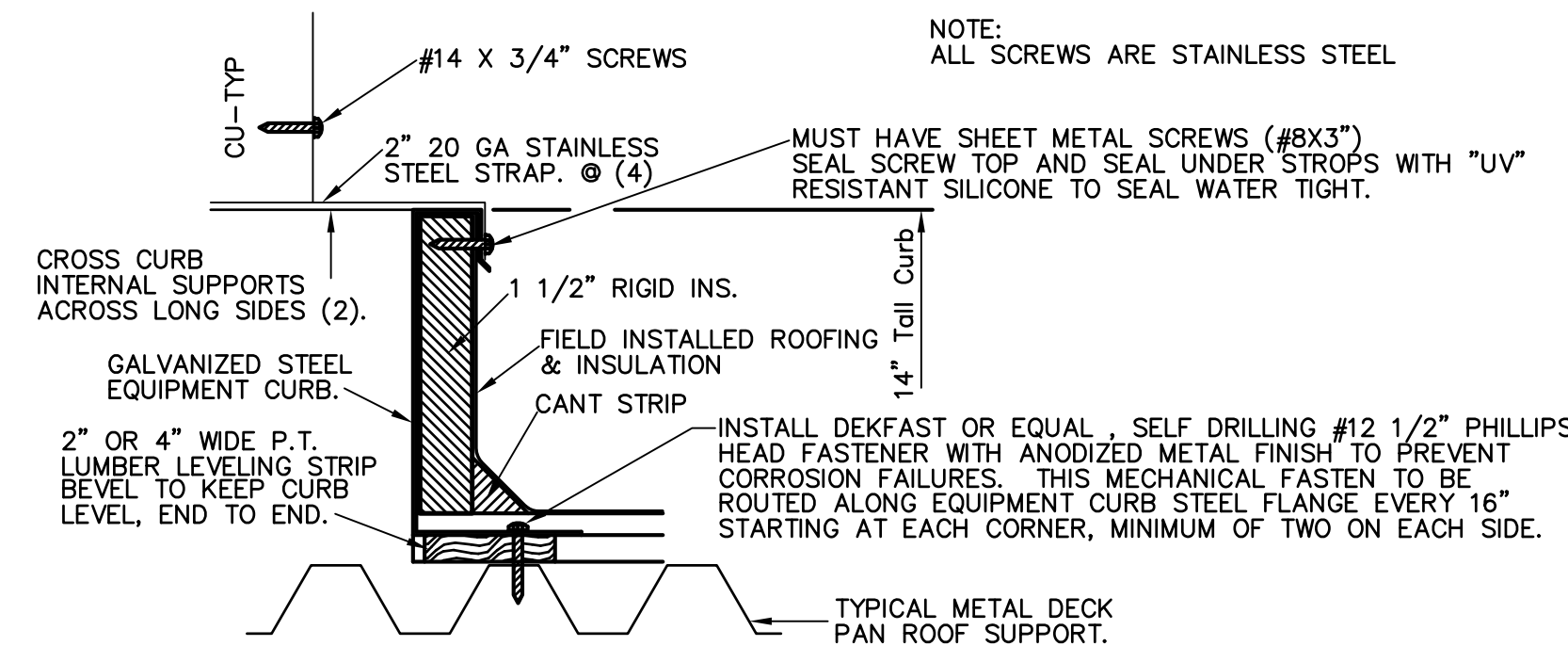
NOTE:

- DISCONNECT SHALL BE PROVIDED BY DIVISION 16000/ ELECTRICAL CONTRACTOR IF NOT AVAILABLE AS FACTORY MOUNTED.
- FLEXIBLE CONNECTORS SHALL NOT BE BUNCHED AND SHALL BE STRETCHED TAUT.

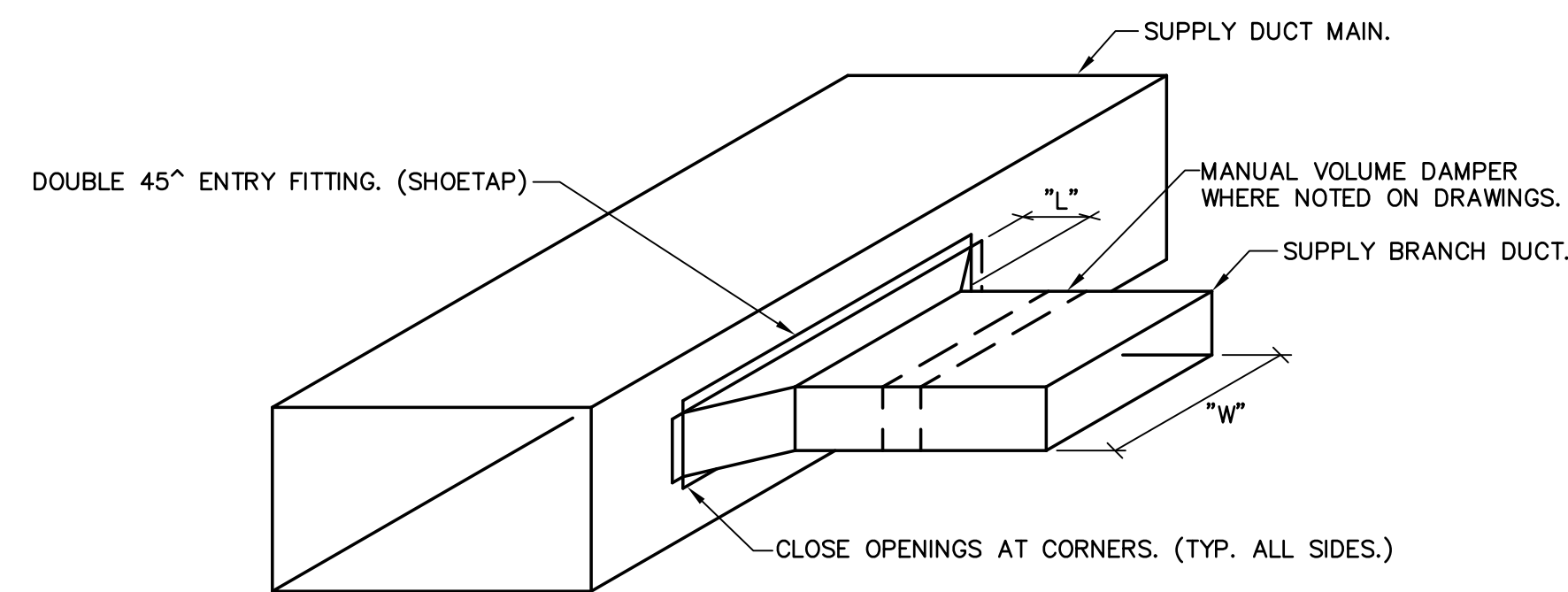
1  
M4.0 **INLINE FAN DETAIL**  
NOT TO SCALE



2  
M4.0 **RETURN GRILLE DETAIL**  
NOT TO SCALE



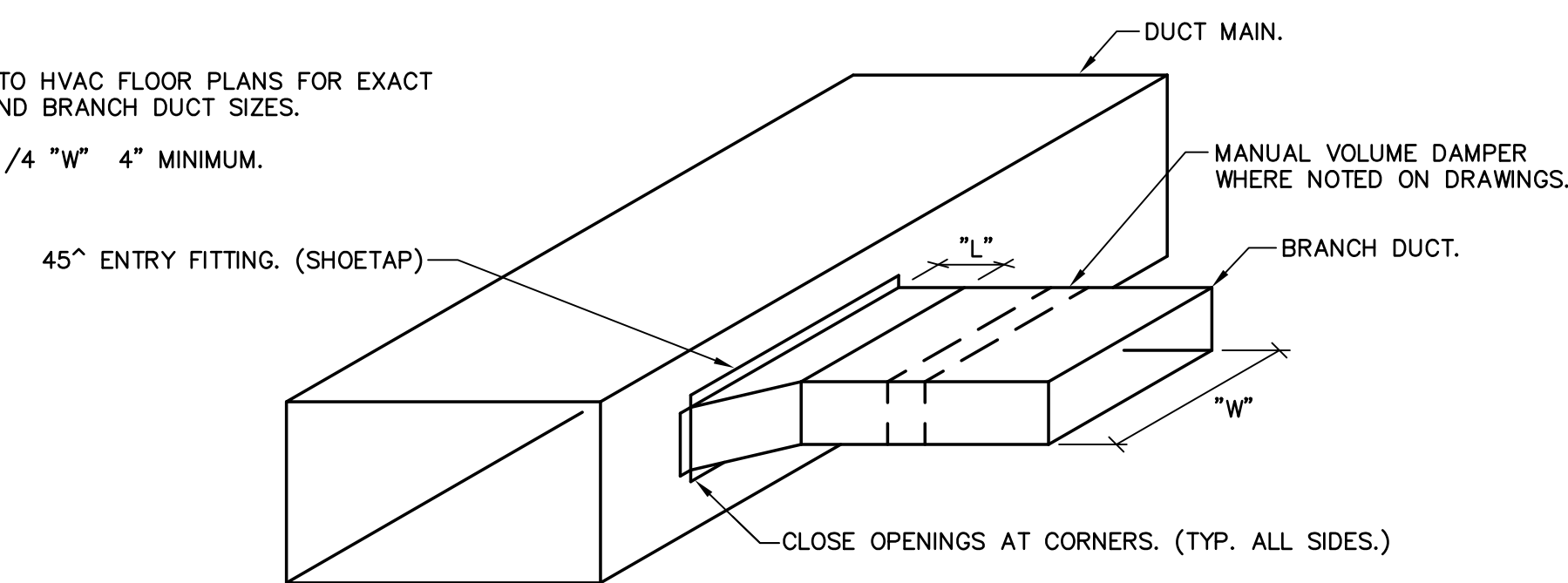
3  
M4.0 **ROOF EQUIPMENT SUPPORT CURB DETAIL**  
NOT TO SCALE



**LOOPED SUPPLY RECTANGULAR BRANCH DUCT**

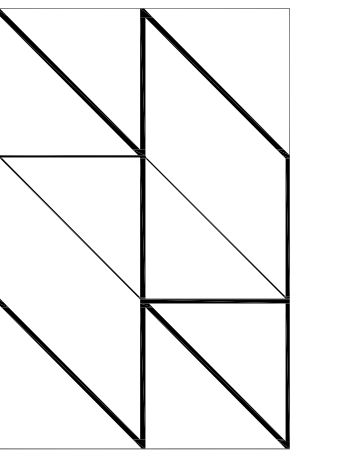
NOTES:

- REFER TO HVAC FLOOR PLANS FOR EXACT MAIN AND BRANCH DUCT SIZES.
- "L" = 1/4 "W" 4" MINIMUM.



**TYPICAL RECTANGULAR BRANCH DUCT**

4  
M4.0 **RECTANGULAR BRANCH DUCTWORK CONNECTION DETAIL**  
NOT TO SCALE



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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**MECHANICAL DETAILS**

SCALE: NOT TO SCALE

SHEET NUMBER

**M4.0**

## ABBREVIATIONS, LEGENDS AND GENERAL NOTES

### ABBREVIATIONS

AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNIT PER HOUR
BOT	BOTTOM
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWS	CHILLED WATER RETURN
CHWR	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DCC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DI	DIGITAL INPUT
DN	DIGITAL OUTPUT
DO	DOWN
DP	DEW POINT
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENERGY CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ET	EXPANSION TANK
EL	ELEVATION
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F DPR	FIRE DAMPER
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FL	FLOOR
FTPI	FINS PER INCH
FPF	FINS PER FOOT
FPM	FEET PER MINUTE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDITY
HB	HOSE BIBB
HC	HEATING COIL
HE	HEAT EXCHANGER
HP	HORSE POWER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MD	MOTORIZED DAMPER
MAX	MAXIMUM
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
OA	OUTSIDE AIR
OS&Y	OUTSIDE SCREW & YOKE
PD	PRESSURE DROP
PRESS	PRESSURE
RA	RETURN AIR
RD	ROOF DRAIN
RL	RAIN LEADER
RTU	ROOF TOP UNIT
S	SANITARY
SEER	SEASONAL ENGINEERING EFFICIENCY RATIO
SD	SMOKE DAMPER
SA	SUPPLY AIR
SP	STATIC PRESSURE
T	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THRU ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEANOUT

### SYMBOLS

	VALVE - SEE SPECIFICATIONS FOR TYPE, GATE VALVE WHEN NOT SPECIFIED.
	GATE VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	OS&Y VALVE
	CHECK VALVE
	BACK WATER VALVE
	BACK FLOW PREVENTER
	UNION
	BUTTERFLY VALVE
	BALL VALVE
	GAS COCK
	STRAINER
	EXPANSION JOINT
	GRADE CLEANOUT IN-LINE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PIPE ANCHOR
	FLOW DIRECTION
	PRESSURE GAUGE
	HAMMER ARRESTOR (PDI SIZE INDICATED)
	TEMPERATURE GAUGE
	SAFETY OR PRESSURE RELIEF VALVE
	ANGLE GLOBE VALVE
	MANUAL AIR VENT
	CLEANOUT EXPOSED
	FLOOR CLEANOUT
	GRADE CLEANOUT END-LINE
	CAPPED OUTLET
	VALVE IN RISER
	GATE VALVE W/ ADAPTER TO 3/4" HOSE THREAD
	P-TRAP
	HOSE BIBB W/ VACUUM BREAKER
	WALL HYDRANT W/ VACUUM BREAKER
	FLOOR DRAIN
	ROOF DRAIN

#### NOTE:

THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

### PIPING AND CONNECTIONS

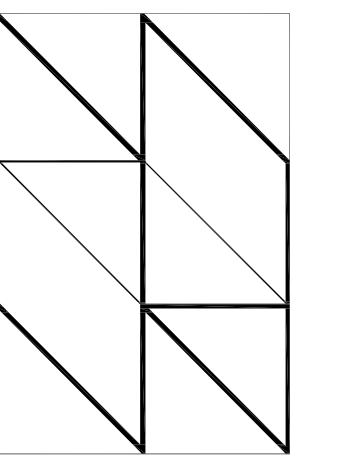
	NEW SOIL OR WASTE PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	CHEMICAL RESISTANT PIPING
	FIRE PROTECTION PIPING
	GAS PIPING
	OXYGEN PIPING
	AIR PIPING
	NITROGEN PIPING
	VACUUM PIPING
	NITROUS OXIDE PIPING
	IN-LINE UP CONNECTION
	END-LINE UP
	IN-LINE DOWN/UP CONNECTION
	END-LINE DOWN CONNECTION
	BOTTOM CONNECTION, 45 OR 90 DEG.
	TOP CONNECTION, 45 OR 90 DEG.
	CROSSING BOTTOM CONNECTION
	SIDE CONNECTION
	Y-1/8 BEND

### DRAWING SYMBOLS

	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE DRAWN
	POINT OF INTERFACE BETWEEN NEW & EXISTING P.O.C.
	POINT OF DEMOLITION P.O.D.
	POINT OF INTERFACE BETWEEN CONTRACTORS

### GENERAL NOTES

- CONTRACTOR SHALL PROVIDE DEMOLITION, COMPLETE PLUMBING SYSTEMS AS DETAILED ON THESE DRAWINGS. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION. ALL PLUMBING PIPING EXCAVATION, COMPACTION, SITE CUTTING, BACKFILL, DEWATERING OF EXCAVATION SHALL BE BY THE PLUMBING CONTRACTOR.
- ALL PLUMBING WORK SHALL BE DESIGNED, INSTALLED, TESTED, AND CLEANED IN ACCORDANCE WITH FLORIDA PLUMBING CODE REQUIREMENTS.
- VERIFY THE EXACT LOCATION OF EXISTING SANITARY AND DOMESTIC COLD WATER PIPING MAINS FROM THE ACTUAL JOB SITE. ALL NEW LINES ARE TO BE ROUTED TO AND/OR FROM VERIFIED LOCATIONS. TAPS, WHEN NOT PROVIDED BY PREVIOUS INSTALLER, ARE TO BE PROVIDED BY THIS INSTALLER.
- MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
- WHERE VALVES OCCUR ABOVE DRYWALL OR PLASTER OR ARE CONCEALED BEHIND WALLS, THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS. PANELS SHALL MATCH EXISTING.
- THE INSTALLER SHALL VISIT THE JOB SITE AND INSPECT ALL EXISTING CONDITIONS AFFECTING THE WORK. SUBMISSION OF HIS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- THE PLANS AND DIAGRAMS OF PLUMBING PIPING ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. INSTALLER SHALL COORDINATE AT SITE WITH ALL PLUMBING, HVAC, FIRE PROTECTION, AND ELECTRICAL WORK SO AS NOT TO CONFLICT IN LOCATION WITH OTHER WORK UNDER THIS CONTRACT OR THAT MAY BE EXISTING.
- PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING UTILITIES IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- EXACT LOCATION NUMBER AND TYPE OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. VERIFY SUCH LOCATIONS BEFORE PROCEEDING ROUGH-IN.
- INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
- FIELD VERIFY ALL EXISTING PIPE SIZES PRIOR TO INSTALLATION.
- NO VENT THRU ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE, EXTERIOR WINDOW, AND DOOR.
- ALL SANITARY AND WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 18" BELOW GRADE OR FINISHED FLOOR UNLESS NOTED OTHERWISE. VERIFY ALL INVERTS WITH ALL EXISTING PIPING PRIOR TO ANY EXCAVATION.
- PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT CUT BLOCK WALL.
- PROVIDE ALL SINKS AND LAVATORIES WITH SLIP JOINT TRAP FITTINGS FOR CLEANOUT.
- PROVIDE ALL REFRIGERATORS WITH A 3/8" COLD WATER SUPPLY FOR AN ICE MAKER. TERMINATE SUPPLY BEHIND REFRIGERATOR AT APPROXIMATELY 12" AFF WITH A CHROME PLATED STOP. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF REFRIGERATORS.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF THREE (3) YEARS FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUTS SHEETS AT TIME OF APPLICATION.
- ALL ROOF DRAINS SHALL BE COORDINATED FOR LOCATION WITH THE ARCHITECTURAL ROOF PLANS, GENERAL CONTRACTOR, AND ROOFING CONTRACTOR.



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ARCHITECT OF RECORD

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### 30% PROGRESS SET

DATE:	xxxxxx
xxxxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

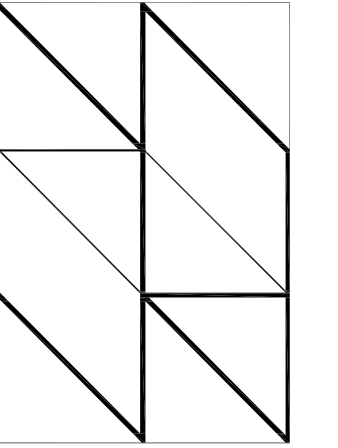
SHEET TITLE  
**PLUMBING LEGEND AND**  
**GENERAL NOTES**

SCALE: NOT TO SCALE

SHEET NUMBER

**PI.0**





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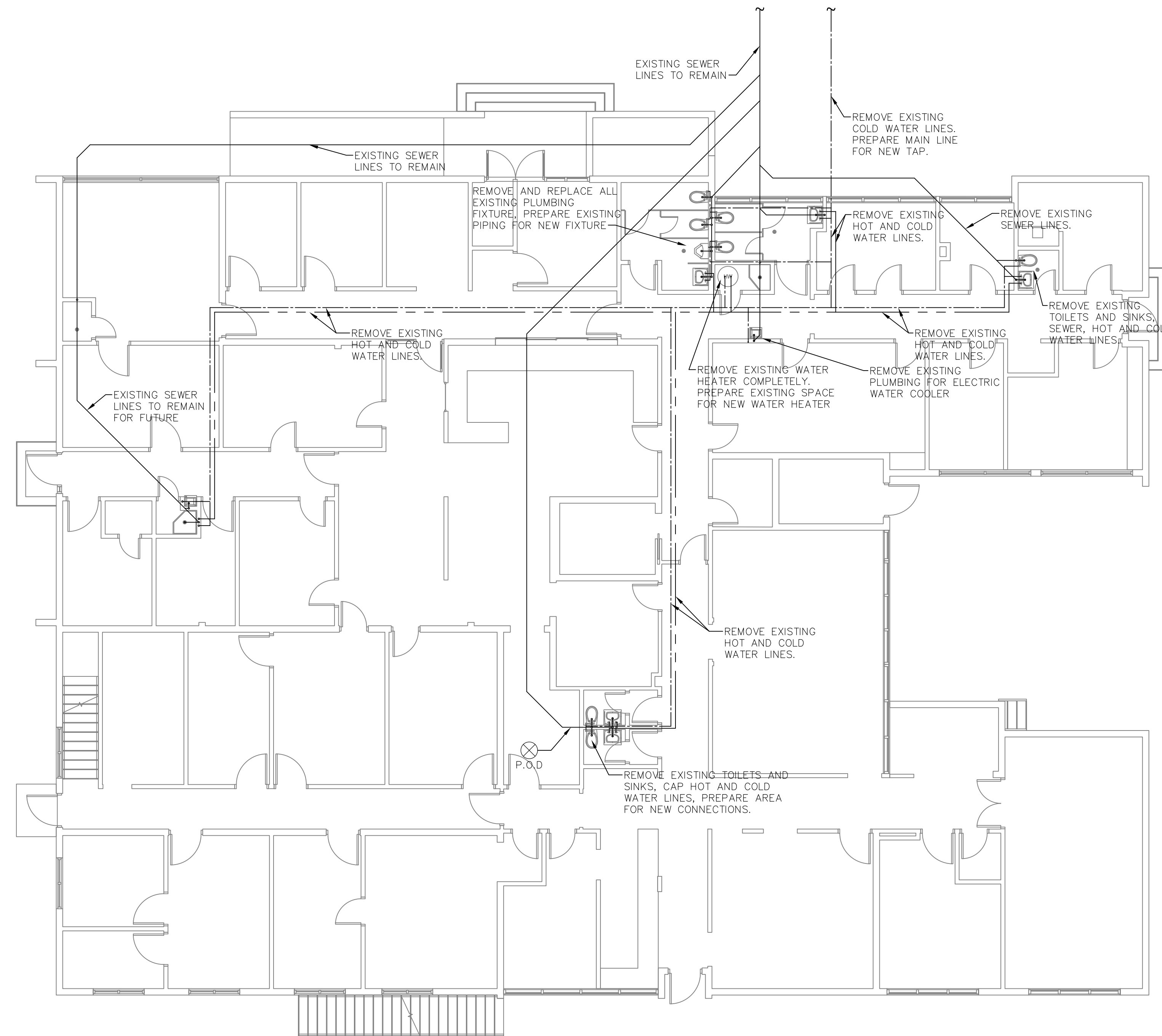
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SARASOTA FL 34236

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**GENERAL NOTES:**

- REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL SCOPE OF WORK.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. ANY QUESTIONS SHALL BE ANSWERED BY THE ENGINEER AND PROJECT MANAGER PRIOR TO START WORK.
- ITEMS IN GRAYSCALE ARE EXISTING AND TO REMAIN. FOR DUCTWORK AND DIFFUSERS THAT ARE "TO REMAIN" PRESERVE EXISTING LOCATION.

SEAL

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ARCHITECT OF RECORD

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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**PLUMBING DEMOLITION  
MORGUE AND EMS FLOOR PLAN**

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

SHEET NUMBER

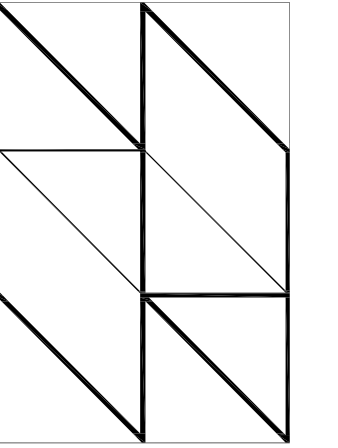
**P2.0**



1  
P2.0

**PLUMBING DEMOLITION MORGUE AND EMS FLOOR PLAN**

1/8"=1'-0"



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**ATP ENGINEERING**  
SOUTH, PL

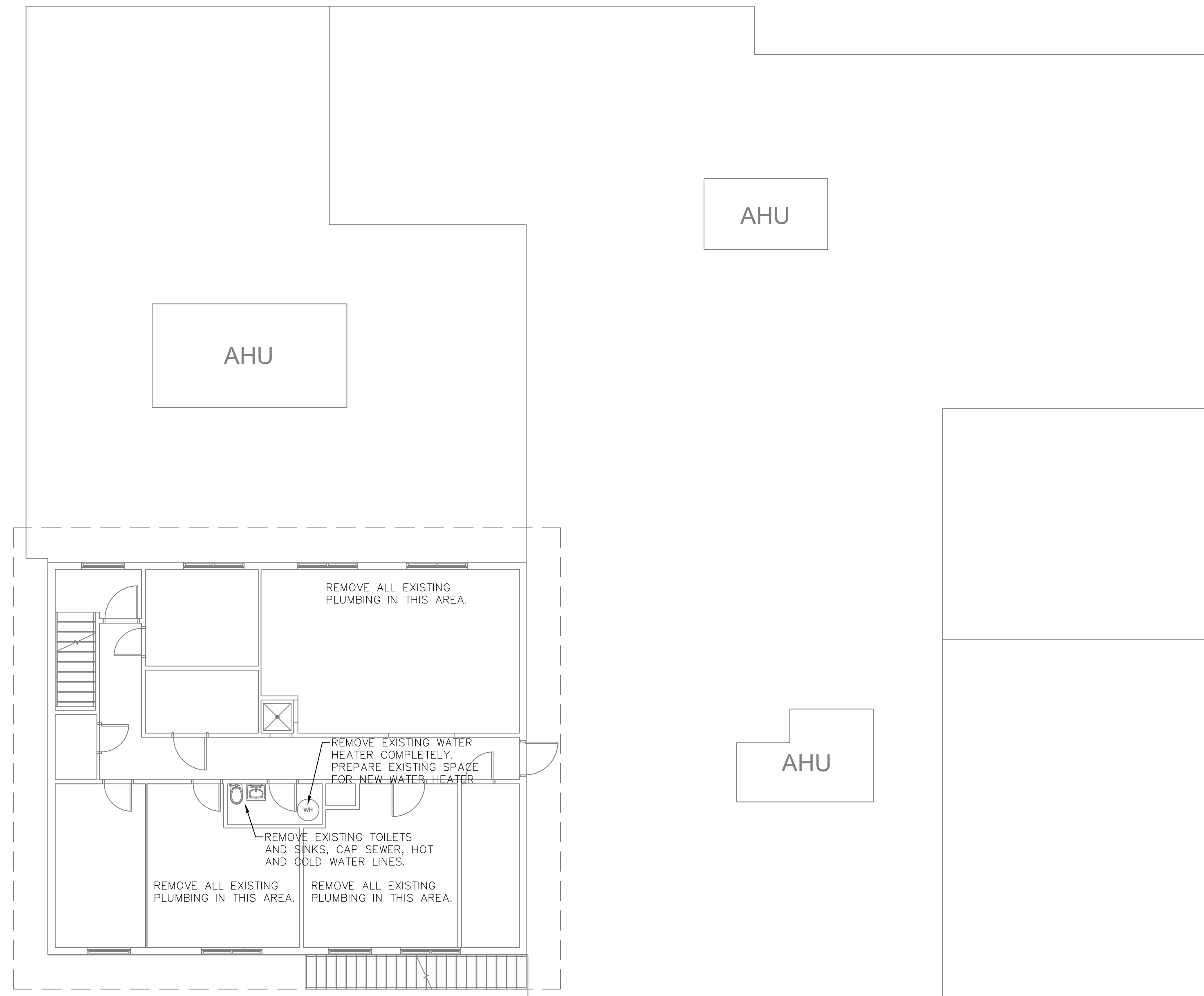
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1  
P2.2

**PLUMBING DEMOLITION EMS 2ND FLOOR PLAN**

1/8"=1'-0"

SEAL

GREGORY HALL, AIA ARO012900  
ARCHITECT OF RECORD

**GENERAL NOTES:**

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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**PLUMBING DEMOLITION EMS  
2ND FLOOR PLAN**

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

SHEET NUMBER

**P2.2**

# ABBREVIATIONS, LEGENDS AND GENERAL NOTES

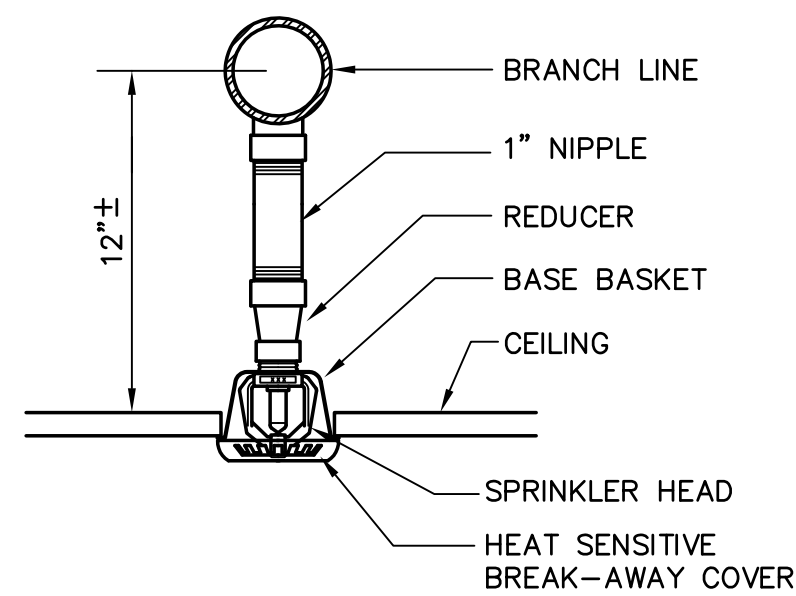
## ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BOT	BOTTOM CEILING
CLG	CLEANOUT
CO	COLD WATER
CW	DUCTILE IRON PIPE
DIP	ELEVATION
EL	EQUIPMENT
EQUIP	EXISTING
EXIST	FIRE SERVICE
F	FLOOR DRAIN
FD	FIRE DEPARTMENT
FDC	CONNECTIONS
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT
FL	FLOOR
FSP	FIRE STANDPIPE RISER
HB	HOSE BIBB
OS&Y	OUTSIDE SCREW & YOKE
SPK	SPRINKLER
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
W/TS	WITH TAMPER SWITCH

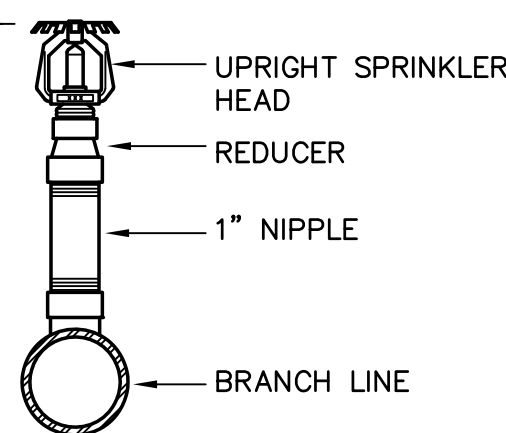
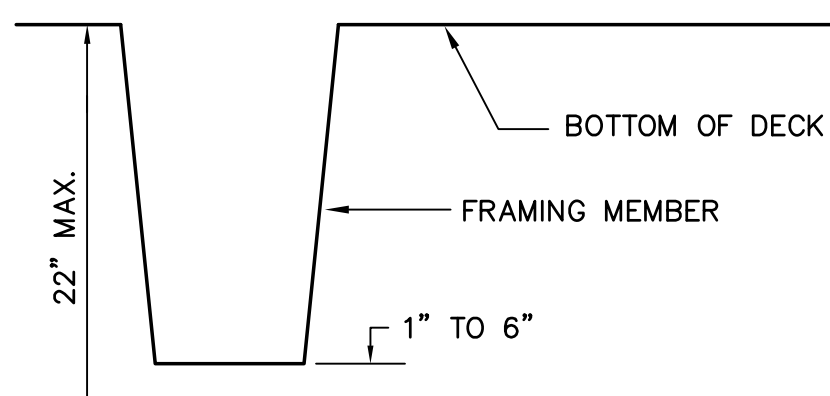
### FIRE PROTECTION SYSTEM SERVES

TOTAL AREA - 1500 S.F. PER SPRINKLER  
 CLASSIFICATION - LIGHT HAZARD  
 WET PIPE SYSTEM  
 DENSITY - .1 GPM  
 COVERAGE PER SPRINKLER 225 SF MAX  
 NO. OF SPRINKLER HEADS CALCULATED - 6  
 SPRINKLER "K" FACTOR - 5.6  
 HMD MINIMUM RESIDUAL PRESSURE - 7.0 PSI  
 HOSE STREAM ALLOWANCE - 100 GPM  
 SCHEDULE 40 AND 10 STEEL PIPE -  
 SCREWED AND GROOVED CONNECTIONS

FIRE HAZARD - LIGHT  
 TEST STATIC PRESSURE - XX PSI  
 TEST FLOW - XXXX GPM  
 RESIDUAL PRESSURE - XX PSI  
 DEMAND FLOW - XXX GPM + XXX HOSE STREAM = XXX GPM  
 REQUIRED PRESSURE - XX PSI  
 AVAILABLE PRESSURE - XX PSI  
 DATE -  
 PERFORMED BY -  
 FLOW TEST REQUESTED 7/20/2016 FROM MANATEE CO.



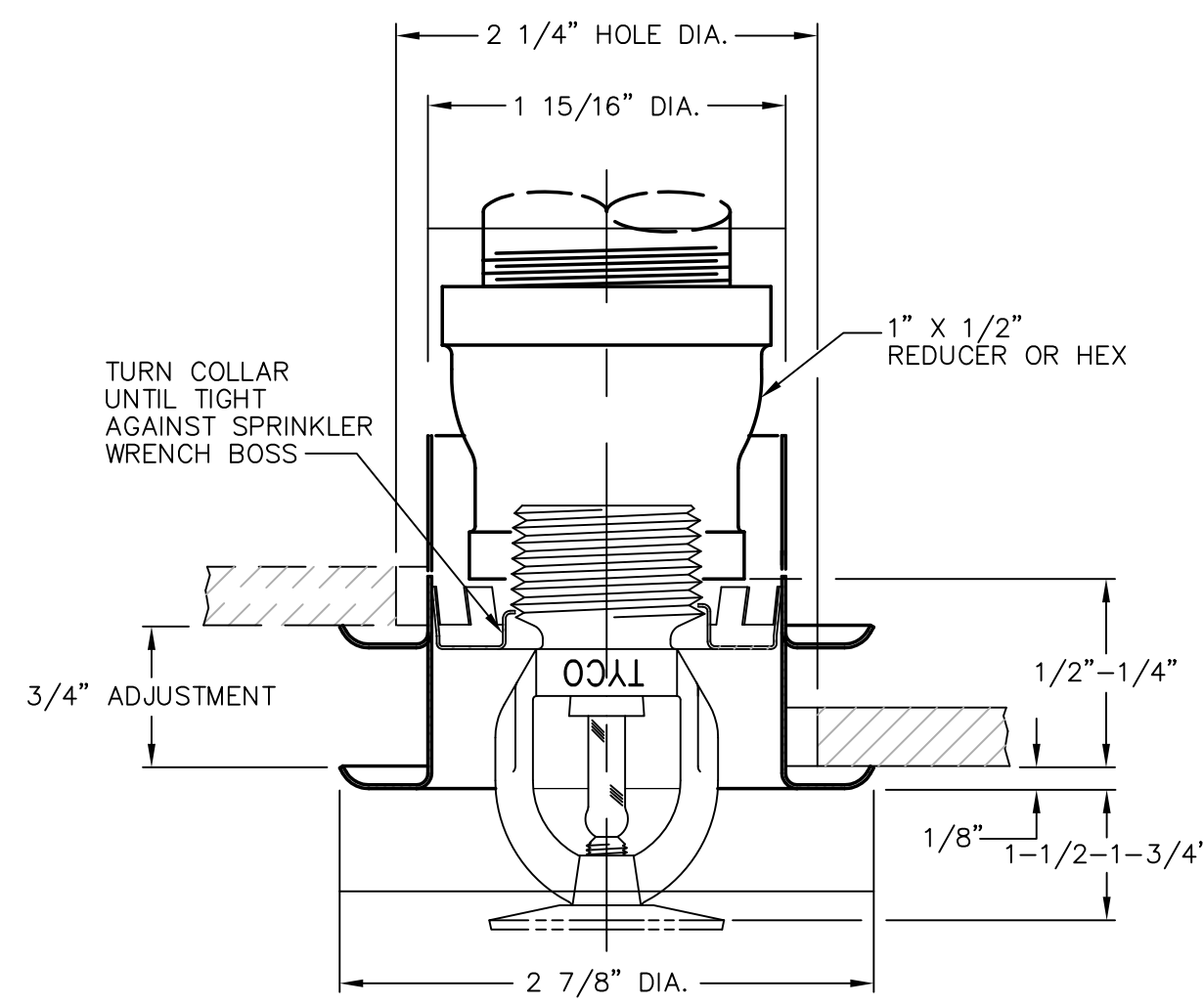
1 FPI.0  
**RECESSED PENDENT SPRINKLER HEAD**  
 NOT TO SCALE



2 FPI.0  
**UPRIGHT SPRINKLER HEAD DETAIL**  
 NOT TO SCALE

## FIRE PROTECTION

	SPRINKLER HEAD - UPRIGHT
	SPRINKLER HEAD - PENDENT
	SPRINKLER HEAD - SPECIAL
	SPRINKLER HEAD - SIDEWALL
	VALVE IN RISER
	FIRE DEPARTMENT CONNECTION
	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45 OR 90 DEG.
	BOTTOM CONNECTION, 45 OR 90 DEG.
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	ORIFICE UNION
	STRAINER
	PRESSURE GAGE
	EXISTING PIPE TO BE REMOVED
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE W/ ADAPTER TO 3/4" HOSE THREAD
	ANGLE GLOBE VALVE
	OUTSIDE SCREW & YOKE (O S & Y)



3 FPI.0  
**SPRINKLER HEAD PENETRATION DETAIL**  
 NOT TO SCALE

TYCO TY-FRL 165 DEGREE F SPRINKLER, QUICK RESPONSE, 1/2 INCH, K=5.6 VERIFY PRIOR TO PURCHASE AND INSTALLATION, CENTRAL RECESSED UNITS, WHITE SPRINKLER, AND ESCUTCHEON MATCHING.

### NOTE

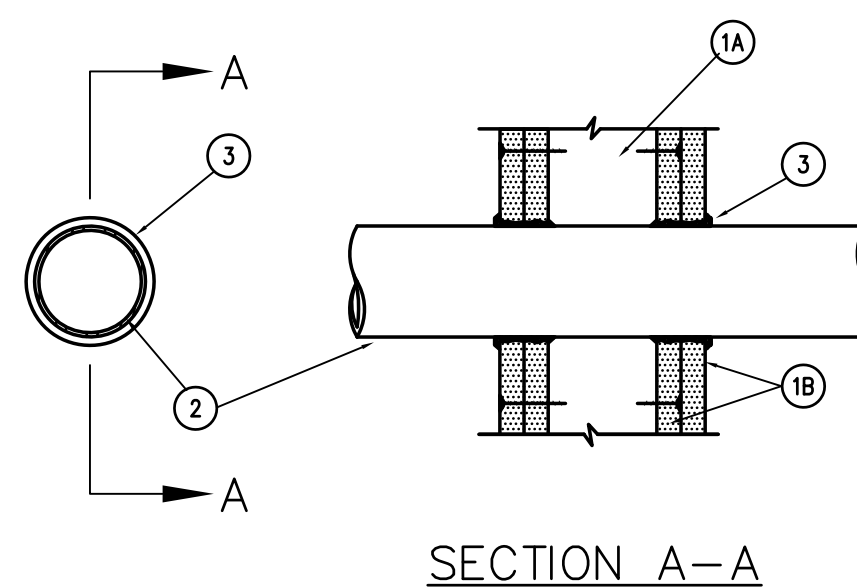
THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

## DRAWING SYMBOLS

	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	SECTION LETTER
	DRAWING NUMBER WHERE DRAWN
	POINT OF INTERFACE BETWEEN NEW & EXISTING P.O.C.
	POINT OF DEMOLITION P.O.D.
	POINT OF INTERFACE BETWEEN CONTRACTORS

### SYSTEM NO. WL1001

(Formerly System No. 147)  
 F Ratings - 1, 2, 3 and 4Hr. (See item 2 and 3)  
 T Ratings - 0, 1, 2, 3, and 4 Hr. (See item 3)



1. WALL ASSEMBLY - THE 1,2,3 OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS CONSIST OF NOMINAL 2 BY 4 IN. LUMBER SPACED 16 INCHES OC WITH NOMINAL 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.

B. WALL BOARD GYPSUM\* - 1/2 IN. OR 5/8 IN. THICK 4 FOOT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM OF OPENING IS 13-1/2 IN.

2. PIPE OR CONDUIT - NOMINAL 12 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER STEEL CONDUIT, NOM. 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL CONDUIT MECHANICAL OR TYPE L OR (HEAVIER ) COPPER TUBING OR MON. 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT.

3. FILL, VOID OR CAVITY MATERIAL\* - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND W/ A MIN. 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX. PIPE OR CONDUIT DIAM. in.	ANNULAR SPACE	F RATING	T RATING
1 in.	0 to 3/16 in.	1 or 2	0+, 1 or 2
1 in.	1/4 to 1/2	3 or 4	3 or 4
4 in.	0 to 1 1/2	1 or 2	0
6 in.	1/4 to 1/2	3 or 4	0
12 in.	3/16 to 3/8	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H.

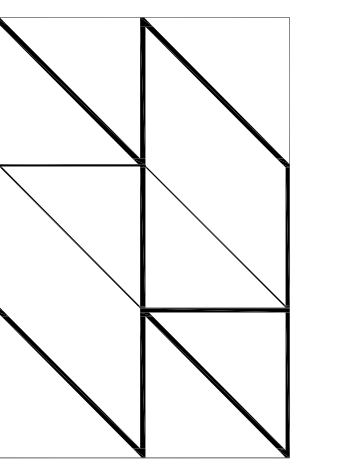
MINNESOTA MINING & MANUFACTURING CO. - TYPES CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+

\*BEARING THE UL CLASSIFICATION MARKING

4 FPI.0  
**UL PENETRATION DETAILS**  
 NOT TO SCALE

## GENERAL NOTES

- FIRE PROTECTION WORK SHALL BE DESIGNED, INSTALLED, AND TESTED IN ACCORDANCE WITH NFPA 13 NFPA 14 AND 25 LATEST EDITION OR AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
- MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
- THE INSTALLER SHALL VISIT THE JOB SITE, INSPECT ALL EXISTING CONDITIONS AFFECTING THE WORK. SUBMISSION OF HIS PROPOSAL SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT WILL BE MADE ON CLAIMS THAT ARISE FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- INSTALLER SHALL COORDINATE AT SITE WITH ALL PLUMBING, HVAC, FIRE PROTECTION, AND ELECTRICAL WORK SO AS NOT TO CONFLICT IN LOCATION WITH OTHER WORK UNDER THIS CONTRACT OR THAT MAY BE EXISTING. CONTRACTOR SHALL ADJUST PIPE ROUTING AS NECESSARY TO AVOID CONFLICTS WITH EXISTING DUCTWORK, EQUIPMENT, LIGHTING, ETC.
- INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT AND PROJECT MANAGER.
- ALL FIRE DEPARTMENT CONNECTIONS SHALL HAVE AN AUTOMATIC BALL DRIP.
- PROVIDE TAMPER SWITCHES ON ALL VALVES THAT CAN SHUT OFF FLOW IN MAINS OR BRANCHES. CHAINS AND LOCKS IN LIEU OF TAMPER SWITCHES MAY BE USED AT OUTDOOR BACKFLOW PREVENTERS ONLY IF APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- PIPE SIZED, GENERAL ROUTING, AND CONFIGURATION IN SYSTEMS REQUIRED TO BE HYDRAULICALLY CALCULATED SHALL BE INSTALLED PER THIS ENGINEER'S CONSTRUCTION DOCUMENTS. ANY DEVIATION SUBMITTED BY THE CONTRACTOR SHALL BE RE-DESIGNED BY THIS ENGINEER WITH RELATED RE-DESIGN FEES BORN BY THE CONTRACTOR.
- CONTRACTOR SHALL ARRANGE FOR, OBTAIN AND BEAR THE COST OF NECESSARY PERMITS, BONDS, AND FEES.
- ALL MATERIALS SHALL BE U.L. LISTED AND BEAR THE U.L. LABEL.
- CONDITIONS SHOWN AS EXISTING (LOCATIONS, MATERIALS, ELEVATIONS, SIZED, ETC.) ARE BASED ON AVAILABLE EXISTING DATA AND SHOULD BE INTERPRETED TO BE APPROXIMATE. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD. EXISTING CONDITIONS FOUND TO DEVIATE FROM THOSE SHOWN SHALL BE REPORTED TO THE ENGINEER.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. PENETRATIONS FOR PIPES, CONDUITS, OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, ROOF, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE STOP MATERIAL FIRE STOP MATERIAL SHALL BE U.L. LISTED AND INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS TO MEET OR EXCEED THE FIRE RATING OF THE PENETRATED ASSEMBLY.
- BEFORE SHUTTING OFF ANY SECTION OF THE FIRE PROTECTION SYSTEM TO MAKE ADJUSTMENTS OR ADDITIONAL CONNECTIONS, COORDINATE WITH THE OWNER AND NOTIFY THE AUTHORITY HAVING JURISDICTION. PLAN THE WORK CAREFULLY AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST POSSIBLE TIME. WORK SHALL BE USED TO COMPLETION WITHOUT INTERRUPTION, AND PROTECTION SHALL BE RESTORED AS PROMPTLY AS POSSIBLE.
- WHERE ELECTRICAL PANELS EXIST, PROVIDE DEFLECTORS ON ELECTRICAL EQUIPMENT TO PREVENT WETTING PANELS. SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY ABOVE ELECTRIC PANELS.
- PROVIDE FLUSHING CONNECTION AT END OF SPRINKLER SYSTEM WHERE LAY-IN CEILING OCCURS. ALL SPRINKLER PIPING THAT REQUIRES CHANGE IN ELEVATION DUE TO COORDINATION ROUTING OF PIPING SHALL HAVE FLUSH CONNECTION AT ALL LOWER ELEVATION. THE SPRINKLER SYSTEM SHALL BE INSTALLED WITH COMPLETE DRAINABLE SYSTEM.
- VERIFY THE EXACT LOCATION OF EXISTING FIRE PROTECTION SITE PIPING, FROM THE ACTUAL JOB SITE. ALL NEW LINES ARE TO BE ROUTED TO AND/OR FROM VERIFIED LOCATIONS. A NEW 6 INCH TAP IS REQUIRED OFF OF THE 12 INCH MAIN NEAR THE STREET.
- PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING FIRE PROTECTION SYSTEM IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- ALL WORK IS TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF THREE(3) YEAR FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- UPON COMPLETION OF THE WORK UNDER THIS CONTRACT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIALS, AND SCRAP. ALL IDENTIFIED EXISTING EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER.
- WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- MECHANICAL ROOM NOTE - SPRINKLER HEADS IN THE MECHANICAL ROOMS MUST BE COORDINATED WITH THE EQUIPMENT AND DUCTWORK. THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS SHOP DRAWINGS WITH THOSE OF THE HVAC CONTRACTOR AND PROVIDE HEADS BETWEEN EQUIPMENT AND UNDER DUCTWORK AS REQUIRED. ADDITIONAL SPRINKLERS SHALL BE PROVIDED UNDER ALL DUCTS AND OBSTRUCTIONS GREATER THAN 4 FEET IN WIDTH AS REQUIRED BY NFPA 13, 8.10.7.3.2 (2007).
- CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUTS SHEETS AT TIME OF APPLICATION.



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 AA2600023

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SEAL

GREGORY HALL, AIA ARO012900  
 ARCHITECT OF RECORD

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### 30% PROGRESS SET

DATE:	xxxx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE RELOCATION**

202 6TH AVENUE EAST  
 BRADENTON, FLORIDA 34208

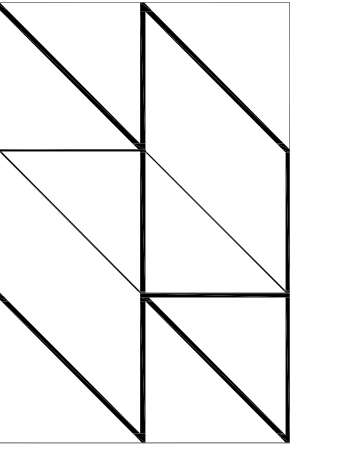
SHEET TITLE  
**FIRE PROTECTION LEGEND AND GENERAL NOTES**

SCALE: NOT TO SCALE

SHEET NUMBER

**FPI.0**





**HALL ARCHITECTS, PA**

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1  
E3.0

**ELECTRICAL LIGHTING DEMOLITION MORGUE AND EMS 1ST FLOOR PLAN**  
1/8"=1'-0"

SEAL

GREGORY HALL, AA ARO012900  
ARCHITECT OF RECORD

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DATE:	XXXXXXXX
xx/xx/xxxx	XXXXXXXX

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

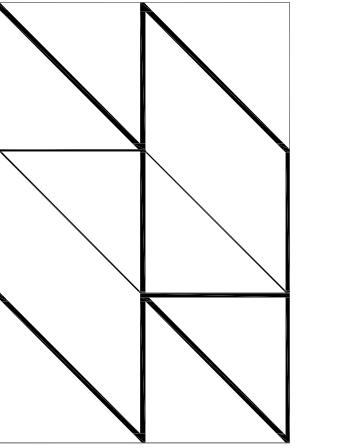
202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**ELECTRICAL LIGHTING DEMOLITION  
MORGUE AND EMS 1ST FLOOR PLAN**

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

SHEET NUMBER

**E3.0**



**HALL ARCHITECTS, PA**  
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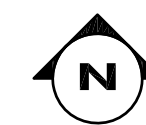
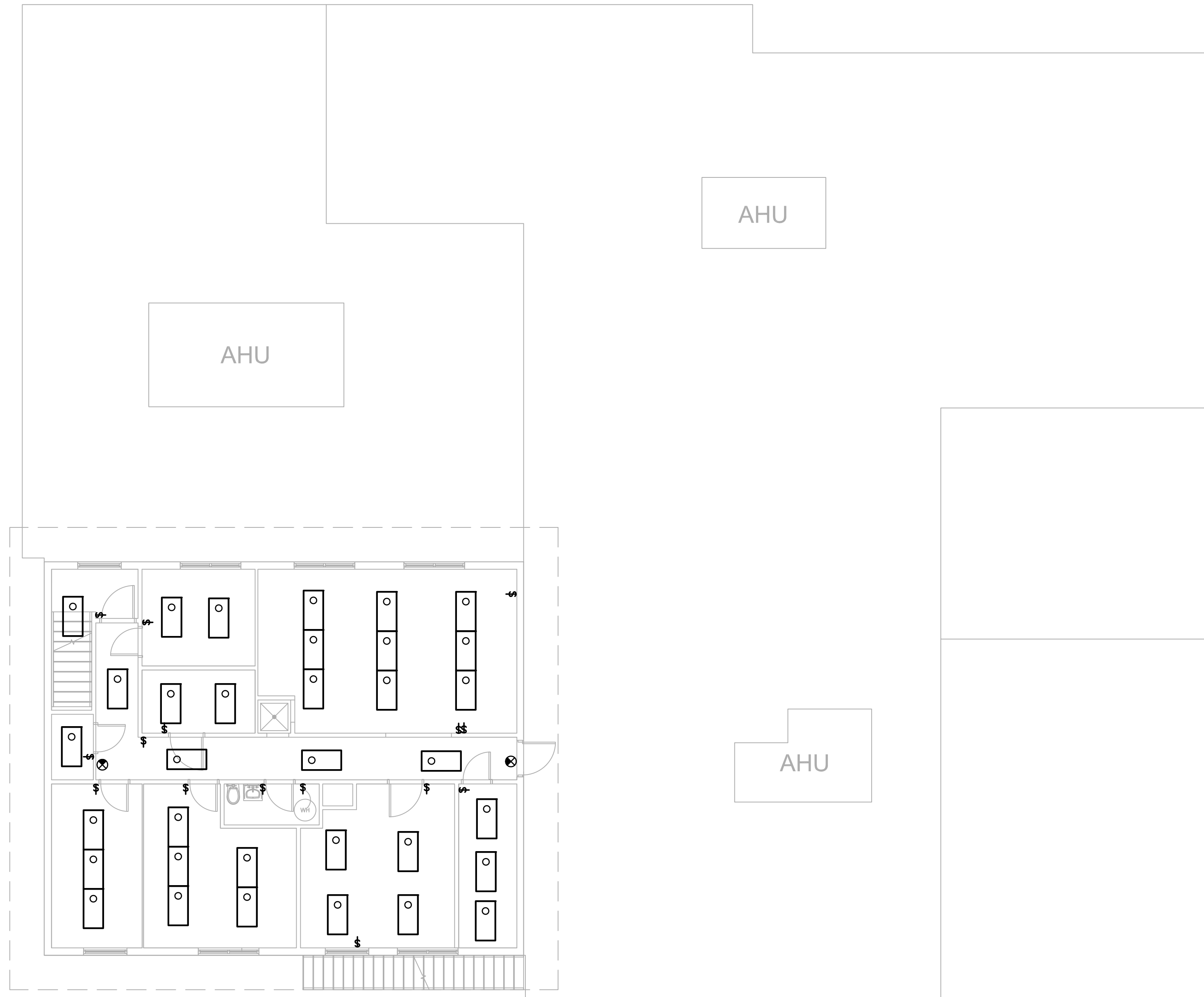
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1  
E3.2

**ELECTRICAL LIGHTING DEMOLITION EMS 2ND FLOOR PLAN**  
1/8"=1'-0"

SEAL

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RELOCATION**

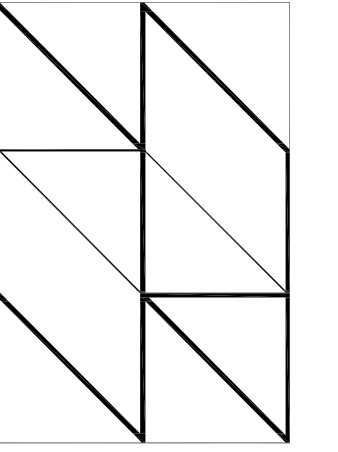
202 6TH AVENUE EAST  
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SHEET TITLE  
**ELECTRICAL LIGHTING DEMOLITION  
EMS 2ND FLOOR PLAN**

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

SHEET NUMBER

**E3.2**



**HALL ARCHITECTS, PA**

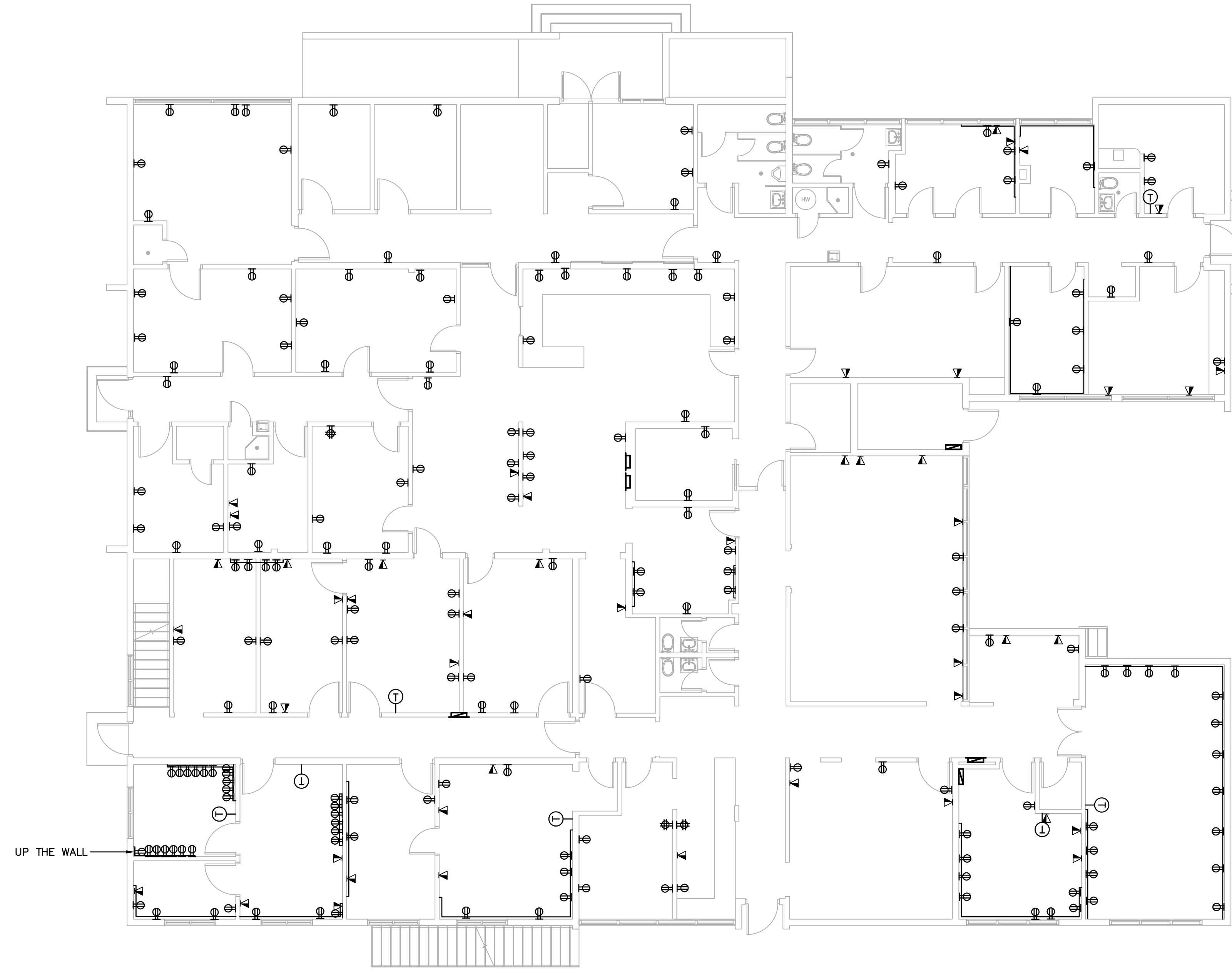
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**ATP ENGINEERING**  
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5227 OFFICE PARK BLVD.  
BRADENTON, FL 34203  
941.751.6485 phone

STRUCTURAL ENGINEER:  
**STIRLING & WILBUR**  
ENGINEERING

7085 SOUTH TAMiami TRAIL  
SARASOTA FL 34236  
941.929.1552 phone



1  
E4.0

**ELECTRICAL POWER DEMOLITION MORGUE AND EMS 1ST FLOOR PLAN**

1/8"=1'-0"

SEAL

GREGORY HALL, AIA ARO012900  
ARCHITECT OF RECORD

**GENERAL NOTES:**

THESE DOCUMENTS ARE PRIMARILY CONCERNED WITH DESCRIBING THE PROJECT'S DESIGN INTENT. THE ARCHITECT IS THE PARTY RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE PROJECT'S DESIGN DIRECTION. FORWARD ANY QUESTIONS RELATED TO THESE MATTERS TO THE ARCHITECT WHENEVER THEY ARISE. THESE DOCUMENTS ARE NOT INTENDED TO DESCRIBE THE MEANS OR METHODS OF CONSTRUCTION. THOSE MATTERS REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

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**30% PROGRESS SET**

DATE:	xxxxxx
xx/xx/xxxx	xxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

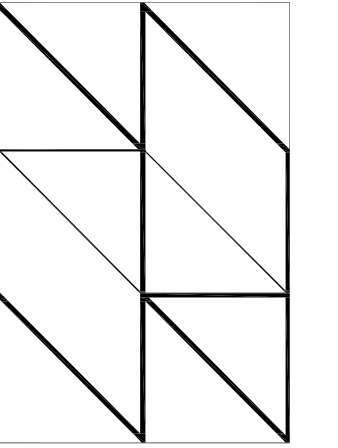
202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**ELECTRICAL POWER DEMOLITION  
MORGUE AND EMS 1ST FLOOR  
PLAN**

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

SHEET NUMBER

**M4.0**



**HALL ARCHITECTS, PA**

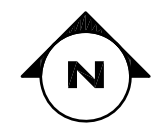
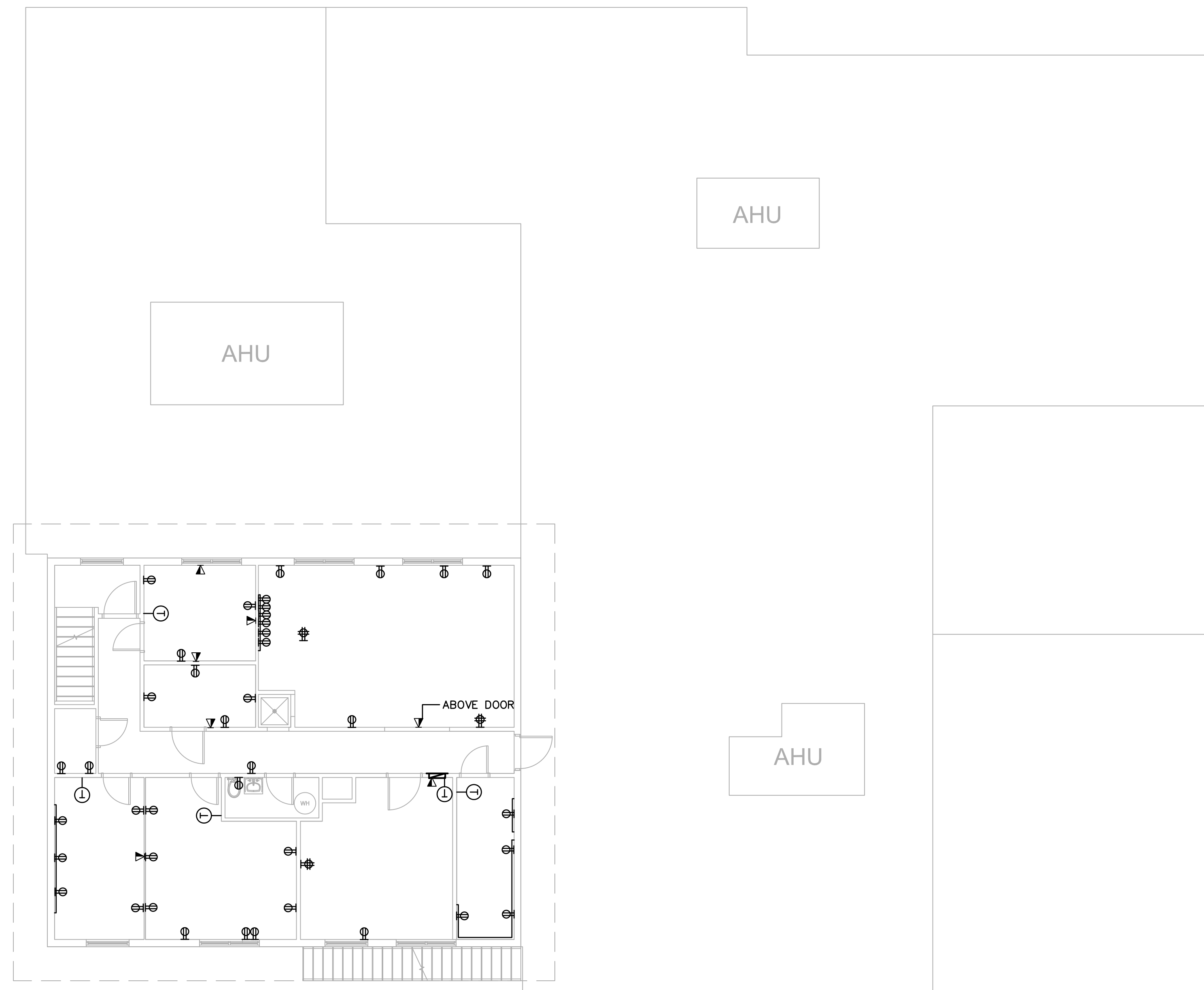
AA26000923  
513 CENTRAL AVENUE, SARASOTA, FL 34203  
941.917.0883 phone 941.917.0889 fax

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ENGINEERING

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941.929.1552 phone



1  
E4.2

**ELECTRICAL POWER DEMOLITION EMS 2ND FLOOR PLAN**

1/8"=1'-0"

SEAL

GREGORY HALL, AA ARO012900  
ARCHITECT OF RECORD

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**30% PROGRESS SET**

DATE:	XXXXXXXX
xx/xx/xxxx	XXXXXXXX

PROJECT NAME:  
**MANATEE COUNTY MORGUE  
RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

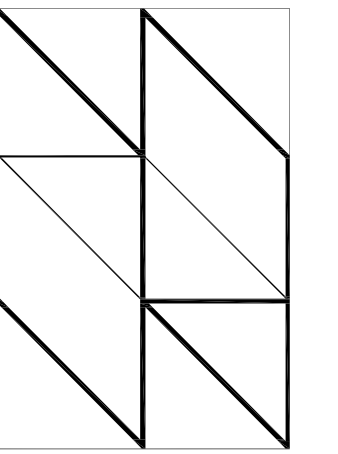
SHEET TITLE  
**ELECTRICAL POWER DEMOLITION  
EMS 2ND FLOOR PLAN**

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

SHEET NUMBER

**E4.2**





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SOUTH, PL

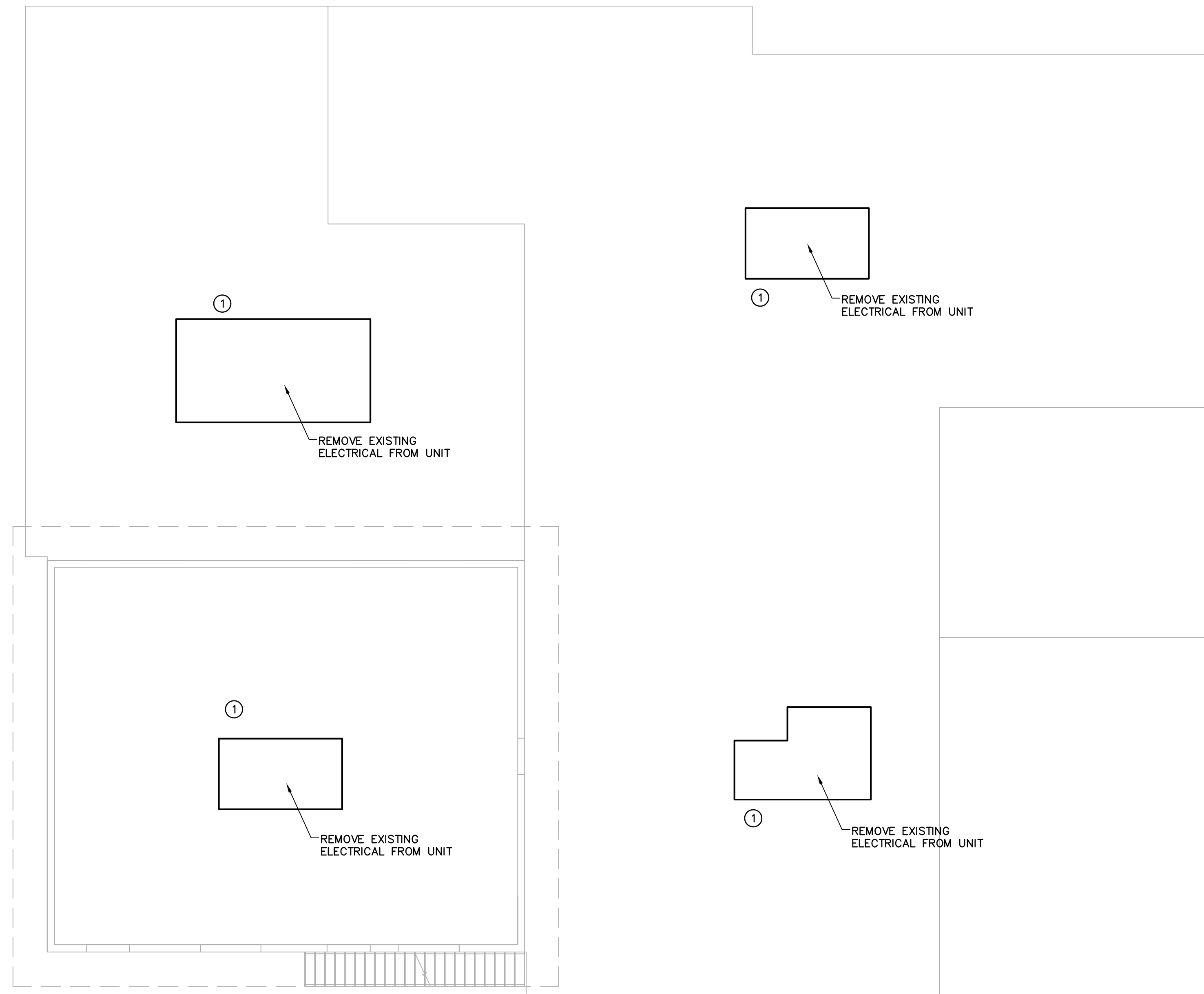
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**GENERAL NOTES:**

- ① REMOVE ALL EXISTING ELECTRICAL DISCONNECTS.
- ② REMOVE ALL EXISTING FIRE ALARM CONNECTIONS.
- ③ REMOVE ALL EXISTING WIRES AND CONDUITS BACK TO PANEL.

SEAL

GREGORY HALL, AA ARO012900  
ARCHITECT OF RECORD

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**30% PROGRESS SET**

DATE:	XXXXXXXX
xx/xx/xxxx	XXXXXXXX

PROJECT NAME:  
**MANATEE COUNTY MORGUE**  
**RELOCATION**

202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**ELECTRICAL POWER**  
**DEMOLITION ROOF PLAN**

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

SHEET NUMBER

**E4.4**



1  
E4.4

**ELECTRICAL POWER DEMOLITION ROOF PLAN**

1/8"=1'-0"

FEEDER BRANCH DESIGNATION	COPPER CONDUCTOR THHN, THWN, & THWN-2		SETS OF CONDUCTORS	CONDUIT SIZE AND QUANTITY [QUANTITY OF CONDUIT IS 1, UNLESS NOTED IN ( )]					
	PHASE & NEUTRAL	EQUIPMENT GROUND		1P, 1N, 1G, 2P, 1G	2P, 1N, 1G, 3P, 1G	3P, 1N, 1G	3P, 2N, 1G	3P, 3N, 1G	3P, 1N, 2G
				3/4"	3/4"	3/4"	1"	1"	1 1/4"
F20	12	12	1	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F30	10	10	1	3/4"	3/4"	3/4"	1"	1"	1"
F50	8	10	1	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"
F60	6	10	1	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
F80	4	8	1	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"
F100	3	8	1	1 1/4"	1 1/4"	1 1/2"	1 1/2"	2"	1 1/2"
F110	2	6	1	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"
F125	1	6	1	1 1/2"	2"	2"	2"	2 1/2"	2"
F150	1/0	6	1	1 1/2"	2"	2"	2 1/2"	2 1/2"	2 1/2"
F175	2/0	6	1	2"	2"	2 1/2"	2 1/2"	3"	2 1/2"
F200	3/0	6	1	2"	2 1/2"	2 1/2"	3"	3"	3"
F225	4/0	4	1	2"	2 1/2"	3"	3"	3"	3"
F250	250	4	1	2 1/2"	3"	3"	3 1/2"	3 1/2"	3-1/2"
F300	350	4	1	3"	3"	3 1/2"	3 1/2"	4"	3 1/2"
F350	2/0	3	2	(2) 2"	(2) 2 1/2"	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 2 1/2"
F400	3/0	3	2	(2) 2"	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 3"	(2) 2 1/2"
F450	4/0	2	2	(2) 2"	(2) 2 1/2"	(2) 2 1/2"	(2) 3"	(2) 3"	(2) 3"
F500	250	2	2	(2) 2 1/2"	(2) 3"	(2) 3"	(2) 3"	(2) 3 1/2"	(2) 3 1/2"
F600	350	1	2	(2) 2 1/2"	(2) 3"	(2) 3"	(2) 3"	(2) 3 1/2"	(2) 3"
F800	300	1/0	3	(3) 2 1/2"	(3) 3"	(3) 3"	(3) 3 1/2"	(3) 3 1/2"	(3) 3 1/2"
F900	350	2/0	3	(3) 3"	(3) 3"	(3) 3 1/2"	(3) 3 1/2"	(3) 4"	(3) 3 1/2"
F1000	400	2/0	3	(3) 3"	(3) 3"	(3) 3 1/2"	(3) 3 1/2"	(3) 4"	(3) 4"
F1200	350	3/0	4	(4) 3"	(4) 3"	(4) 3 1/2"	(4) 3 1/2"	(4) 4"	(4) 4"
F1600	400	4/0	5	(5) 3"	(5) 3"	(5) 3 1/2"	(5) 3 1/2"	(5) 4"	(5) 4"
F2000	400	250	6	(6) 3"	(6) 3"	(6) 3 1/2"	(6) 3 1/2"	(6) 4"	(6) 4"

FEEDER SIZE TO USE	DISTANCE ALLOWED	
	120V	208V
F20	0 - 45 FEET	0 - 79 FEET
F30	45 - 72 FEET	79 - 126 FEET
F50	72 - 115 FEET	126 - 201 FEET
F60	115 - 183 FEET	201 - 318 FEET
F80	183 - 292 FEET	318 - 506 FEET
F100	292 - 367 FEET	506 - 637 FEET
F110	367 - 464 FEET	637 - 804 FEET
F125	464 - 584 FEET	804 - 1013 FEET
F150	584 - 738 FEET	1013 - 1279 FEET

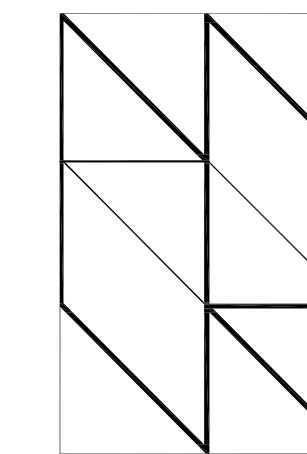
**NOTES:**

- 20 A BRANCH CIRCUITS SHALL BE SIZED FOR VOLTAGE DROP. WIRE SIZES ARE NOT INDICATED ON THE DRAWINGS TO COMPENSATE FOR VOLTAGE DROP FOR THESE CIRCUITS. CONTRACTOR SHALL UTILIZE WIRE SIZE SHOWN ABOVE FOR DISTANCES LISTED ABOVE.
- VOLTAGE DROP WIRE SIZES WILL BE STRICTLY ENFORCED. CONTRACTOR SHALL SUBMIT A LIST OF CIRCUITS THAT WILL EXCEED THE DISTANCES ALLOWED AND INDICATE WIRE SIZE TO BE USED PRIOR TO ANY WIRE BEING INSTALLED.
- SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3 PERCENT PER NEC 210.19A NOTE 4.

- NOTES:**
- DO NOT COMBINE NEUTRAL CONDUCTORS FOR ALL CIRCUITS. USE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL CIRCUITS.

**FAULT CURRENT CALCULATIONS**

- PROJECT IS AWAITING FAULT CURRENT INFORMATION FROM FP&L.
- BREAKER AIC RATINGS SHOWN IN PANEL SCHEDULES HAS NOT BEEN CALCULATED.
- USE AIC RATINGS SHOWN ONLY FOR BID PURPOSES.
- VERIFY AIC RATINGS WITH THIS ENGINEER PRIOR TO PURCHASING ANY ELECTRICAL GEAR.



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**30% PROGRESS SET**

DATE:	xxxx/xxxx	xxxxxxx

PROJECT NAME:  
**MANATEE COUNTY MORGUE RELOCATION**

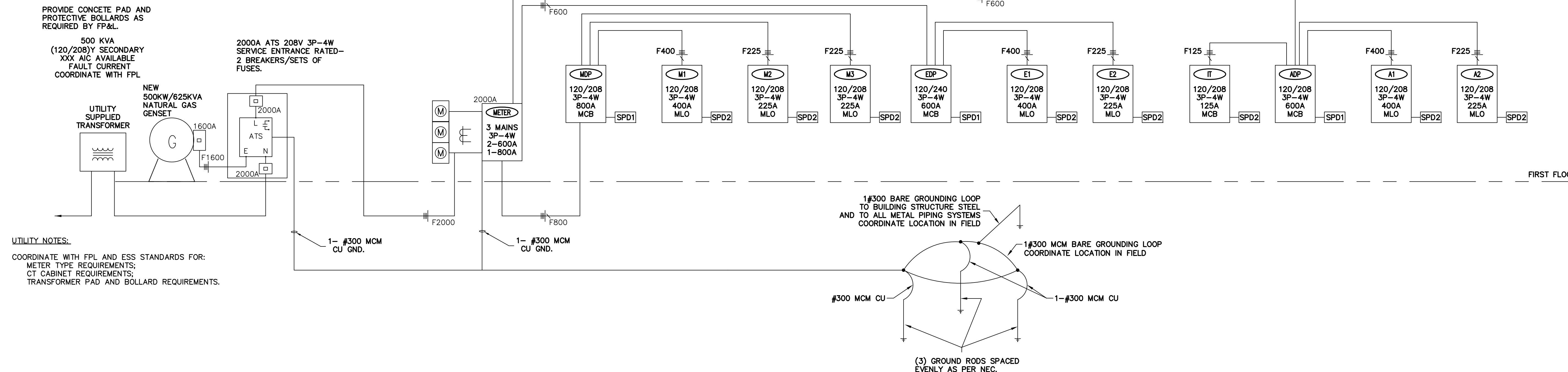
202 6TH AVENUE EAST  
BRADENTON, FLORIDA 34208

SHEET TITLE  
**ELECTRICAL ONE LINE AND PANEL**

SCALE: NOT TO SCALE

SHEET NUMBER

**E5.0**



PROVIDE CONCRETE PAD AND PROTECTIVE BOLLARDS AS REQUIRED BY FP&L.

500 KVA (120/208V) SECONDARY XXX AIC AVAILABLE FAULT CURRENT COORDINATE WITH FPL

NEW 500KW/625KVA NATURAL GAS GENSET

2000A ATS 208V 3P-4W SERVICE ENTRANCE RATED-2 BREAKERS/SETS OF FUSES.

**UTILITY NOTES:**  
COORDINATE WITH FPL AND ESS STANDARDS FOR:  
METER TYPE REQUIREMENTS;  
CT CABINET REQUIREMENTS;  
TRANSFORMER PAD AND BOLLARD REQUIREMENTS.

**GENERAL NOTES:**

SPD1 - SERVICE ENTRANCE RATED SURGE PROTECTION DEVICE TO BE LIKE PQ PROTECTION PQM200 OR LEVITON 52000 SERIES, TYPE 2 PANEL MOUNT, OR APPROVED EQUAL.

SPD2 - SURGE PROTECTION DEVICE TO BE LIKE PQ PROTECTION PQC100 OR LEVITON 42000 SERIES, TYPE 2 PANEL MOUNT, OR APPROVED EQUAL.

**ONE-LINE RISER DIAGRAM**  
1  
E5.0  
NTS