

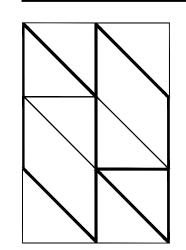
MEDICAL EXAMINER'S OFFICE AND EMERGENCY MEDICAL SERVICES RENOVATION

941.917.0883 phone

MEP ENGINEER: ATP ENGINEERING SOUTH, PL 5227 OFFICE PARK BLVD, BRADENTON, FL 34203 941.751.6485 phone

ARCHITECT: HALL ARCHITECTS 513 CENTRAL AVE SARASOTA FL 34236

STRUCTURAL ENGINEER: STIRLING & WILBUR ENGINEERING 7085 SOUTH TAMIAMI TRAIL SARASOTA FL 34236 941.929.1552 phone



HALL ARCHITECTS, PA

513 CENTRAL AVENUE, SARASOTA, FL 941.917.0883 phone 941.917.0889 fax

MEP ENGINEER: ATP ENGINEERING SOUTH, PL

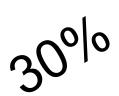
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STRUCTURAL ENGINEER: STIRLING & WILBUR ENGINEERING

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GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

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XXXXXXX

PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

COVER SHEET

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

ARCHITECTURAL ABBREVIATIONS

MTG MOUNTING

MULL MULLION

NIC NOT IN CONTRACT

NOA NOTICE OF ACCEPTANCE

MTL METAL

N NORTH

NO NUMBER

NOM NOMINAL

OA OVER ALL

O/A OUTSIDE AIR

OC ON CENTER

OFF OFFICE

OD OUTSIDE DIAMETER

NTS NOT TO SCALE

T TREAD (ON STAIRS)

T & B TOP AND BOTTOM

T & G TONGUE AND GROOVE

TOS TOP OF STRUCTURE / SLAB

UNO UNLESS NOTED OTHERWISE

VCT VINYL COMPOSITION TILE

VTR VENT THROUGH THE ROOF

VWC VINYL WALL COVERING

TB TOWEL BAR

TEL TELEPHONE

TEMP TEMPORARY

TERR TERRAZZO

THK THICK(NESS)

THRU THROUGH

TOB TOP OF BEAM

TOW TOP OF WALL

TV TELEVISION

TYP TYPICAL

UTIL UTILITY

VERT VERTICAL

VEST VESTIBULE

VIN VINYL

W WEST

W/ WITH

WD WOOD

WDW WINDOW

W/O WITHOUT

WT WEIGHT

YD YARD

WC WATER CLOSET

W/C WHEEL CHAIR

WH WATER HEATER

WP WATERPROOF(ING)

WR WATER RESISTANT

WWF WELDED WIRE FABRIC

VIF VERIFY IN THE FIELD

THRES THRESHOLD

NOTE: REQUEST CLARIFICATION WHERE THE MEANING IS UNCLEAR.

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 ASHPALT AUTO AUTOMATIC AV AUDIO VISUAL AVG AVERAGE B BASE BD BOARD BITUM BITUMINOUS BLDG BUILDING BLK BLOCK BLKG BLOCKING BM BEAM BOT BOTTOM BU BUILT UP BUR BUILT UP ROOFING 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 CO CLEAN OUT COL COLUMN

CMU CONCRETE MASONRY UNIT CONF CONFERENCE ROOM CONT CONTINUOUS CORR CORRIDOR CP CENTER POINT CPT CARPET CT CERAMIC TILE CTR CENTER CU CONDENSING UNIT CY CUBIC YARD 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 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 EWH ELECTRIC WATER HEATER EXH EXHAUST EXP EXPANSION

EXP BT EXPANSION BOLT

FOM FACE OF MASONRY

FOW FACE OF WALL

FT FOOT/FEET

FTG FOOTING

FURN FURNITURE

GALV GALVANIZED

GEN GENERATOR

GYP GYPSUM

HT HEIGHT

HB HOSE BIB

HC HOLLOW CORE

HCP HANDICAPPED

HDWD HARD WOOD

HM HOLLOW METAL

ID INSIDE DIAMETER

INCL INCLUDING

INT INTERIOR

INV INVERT

INSUL INSULATION

MC MEDICINE CABINET

MECH MECHANICAL

MEZZ MEZZANINE

MFR MANUFACTURER

MISC MISCELLANEOUS

MO MASONRY OPENING

MR MOISTURE RESISTANT

MED MEDIUM

MIN MINIMUM

MIR MIRROR

MS METAL STUD

MTD MOUNTED

HDWR HARDWARE

HW HOT WATER

HR HOUR

IN INCH

GC GENERAL CONTRACTOR

GFI GROUND FAULT CIRCUIT

GMU GLASS MASONRY UNIT

GYP BD GYPSUM BOARD

FURR FURRING

FUT FUTURE

GA GAUGE

FOS FACE OF STRUCTURE

EXIST EXISTING

EXT EXTERIOR 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

OPP OPPOSITE OZ OUNCE 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 QT QUARRY TILE

QTR QUARTER 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

JAN JANITOR ROW RIGHT OF WAY JB JUNCTION BOX RR REST ROOM JT JOINT S SOUTH KIT KITCHEN SA SUPPLY AIR KO KNOCK OUT SAN SANITARY SC SOLID CORE LAM LAMINATE SCHED SCHEDULE / SCHEDULED LAT LATITUDE SCW SOLID CORE WOOD LAV LAVATORY SECT SECTION LB(S) POUND(S) SF SQUARE FEET LN LINEN SHLV SHELVING LOUV LOUVER SHR SHOWER LT LIGHT SHT SHEET LTG LIGHTING SIM SIMILAR LTL LINTEL SPEC SPECIFICATIONS LVL LEVEL SQ SQUARE SQ FT SQUARE FEET MAT MATERIAL SQ IN SQUARE INCHES MAX MAXIMUM SQ YD SQUARE YARD

SS STAINLESS STEEL

STD STANDARD

ST STL STAINLESS STEEL

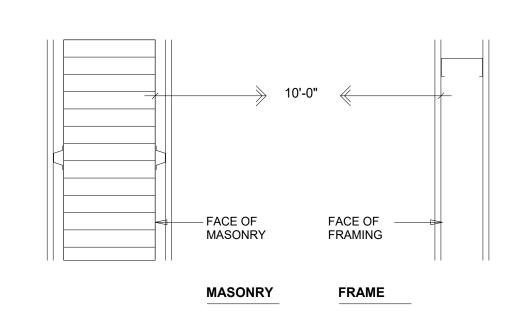
STL STEEL & AND STO STORAGE ∠ ANGLE - STRUCTURAL STR STRUCTURE SUR SURFACE @ AT SUSP SUSPENDED ¢ CENTERLINE SW STORM WATER DIAMETER / ROUND SYM SYMMETRICAL __ PERPENDICULAR

POUND / NUMBER

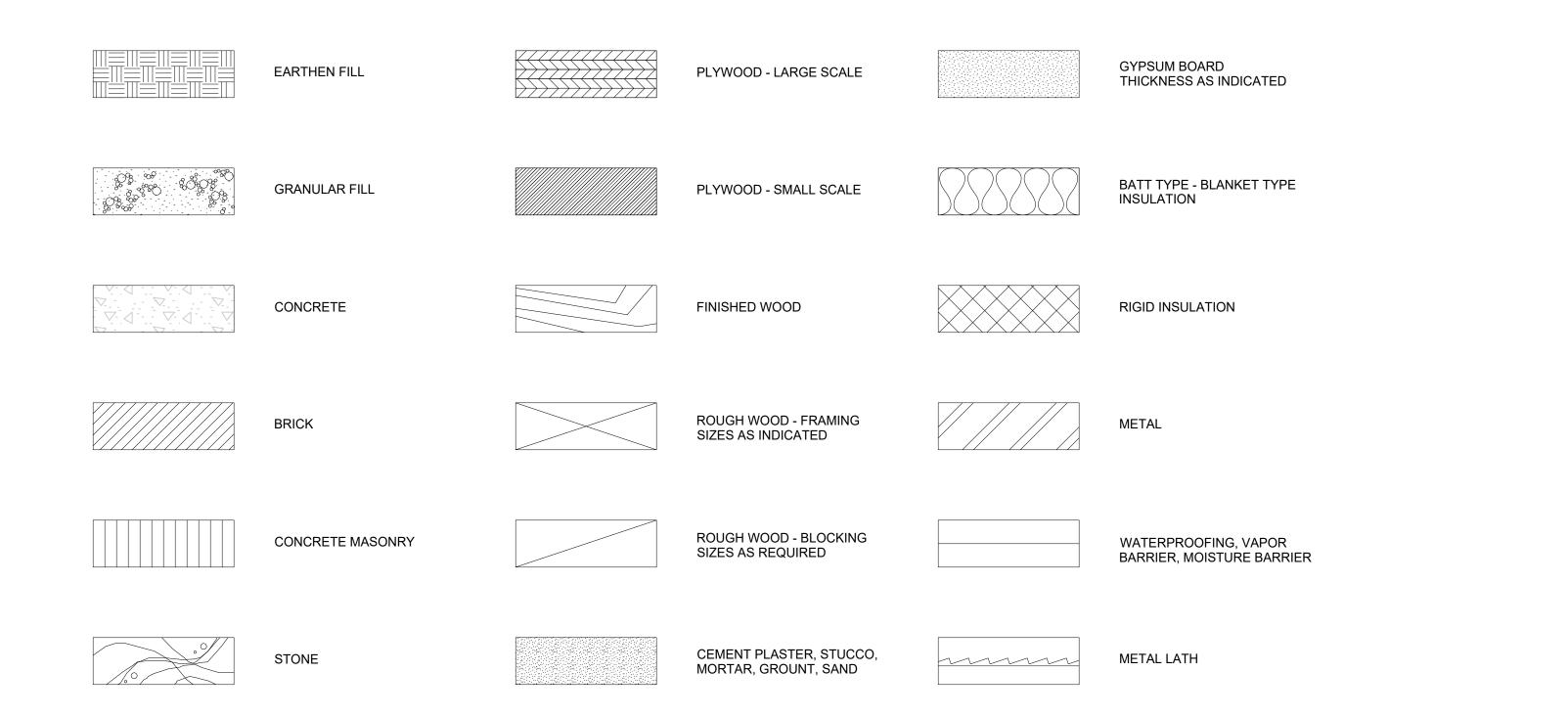
P PROPERTY LINE / PLATE

10'-0" **FRAME** 3'-4" 8'-4" M.O. **MASONRY**

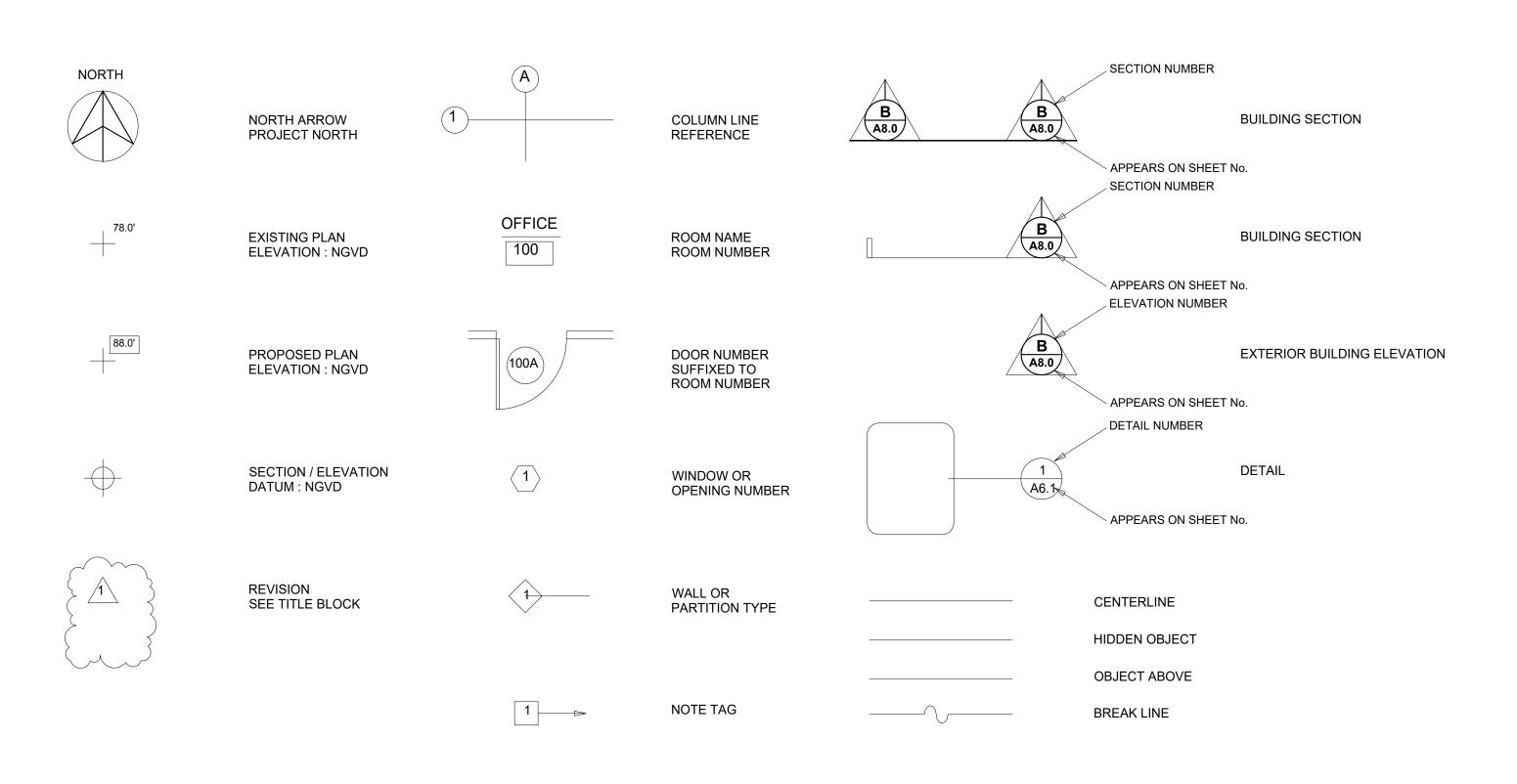
DIMENSIONING NOTES: (UNLESS NOTED OTHERWISE) DIMENSIONS IN FRAME CONSTRUCTION ARE GIVEN TO THE FACE OF FRAMING. **DIMENSIONS IN MASONRY** CONSTRUCTION ARE GIVEN TO THE FACE OF MASONRY UNIT. DIMENSIONS OF OPENINGS IN FRAME CONSTRUCTION ARE GIVEN TO THE EDGE OF THE FINISHED OPENING. DIMENSIONS OF OPENINGS IN MASONRY ARE GIVEN TO THE EDGE OF MASONRY OPENING.



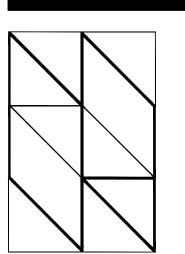
STANDARD DIMENSIONING FORMAT



STANDARD MATERIAL SYMBOLS



STANDARD DRAWING SYMBOLS



HALL ARCHITECTS, PA

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STRUCTURAL ENGINEER: STIRLING & WILBUR

ENGINEERING 7085 SOUTH TAMIAMI TRAIL SARASOTA FL 34236

941.929.1552 phone

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

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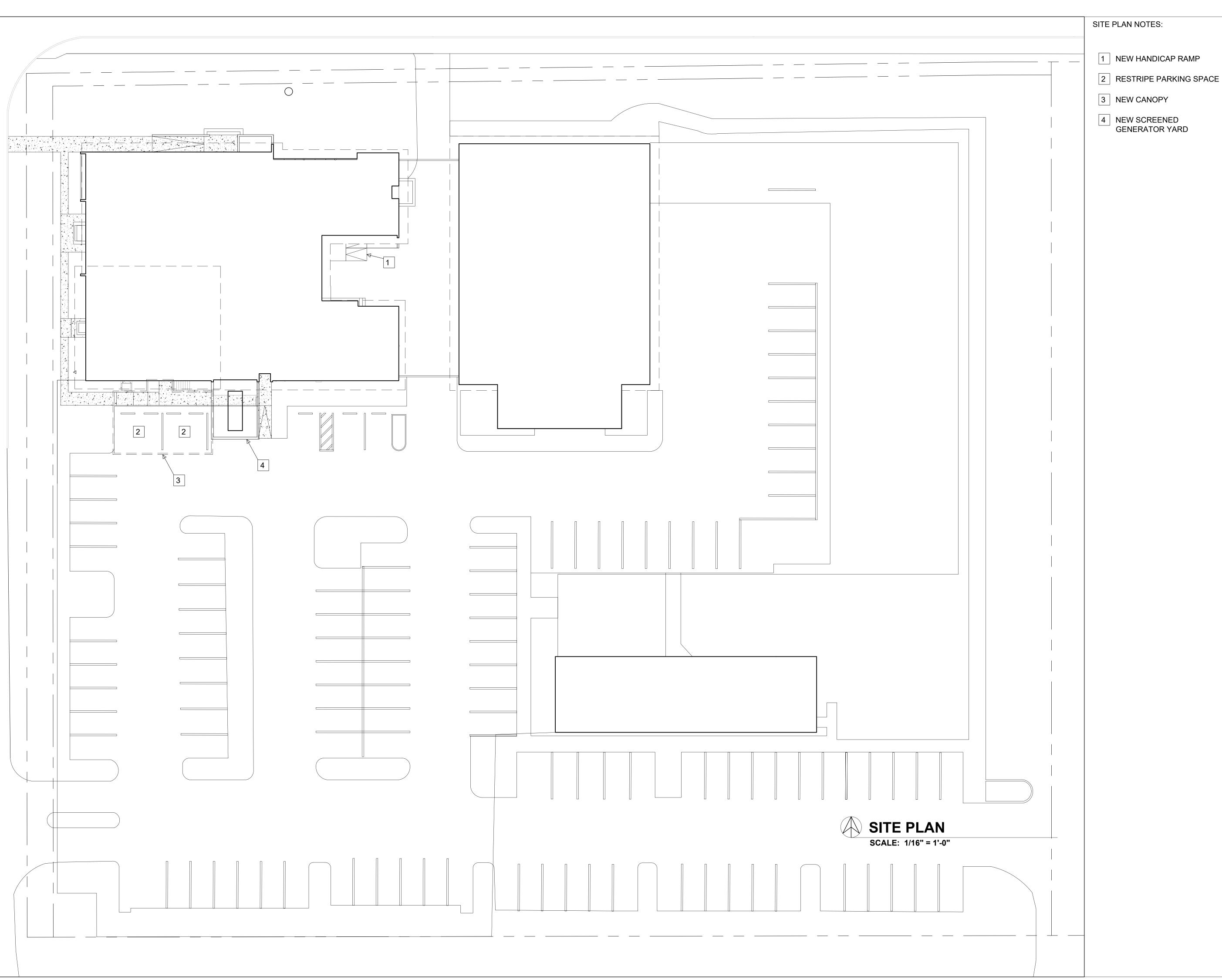
PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

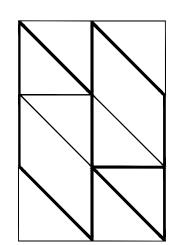
202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

DRAWING STANDARDS

SCALE: NTS





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GREGORY HALL, AIA AROO12900

GENERAL NOTES:

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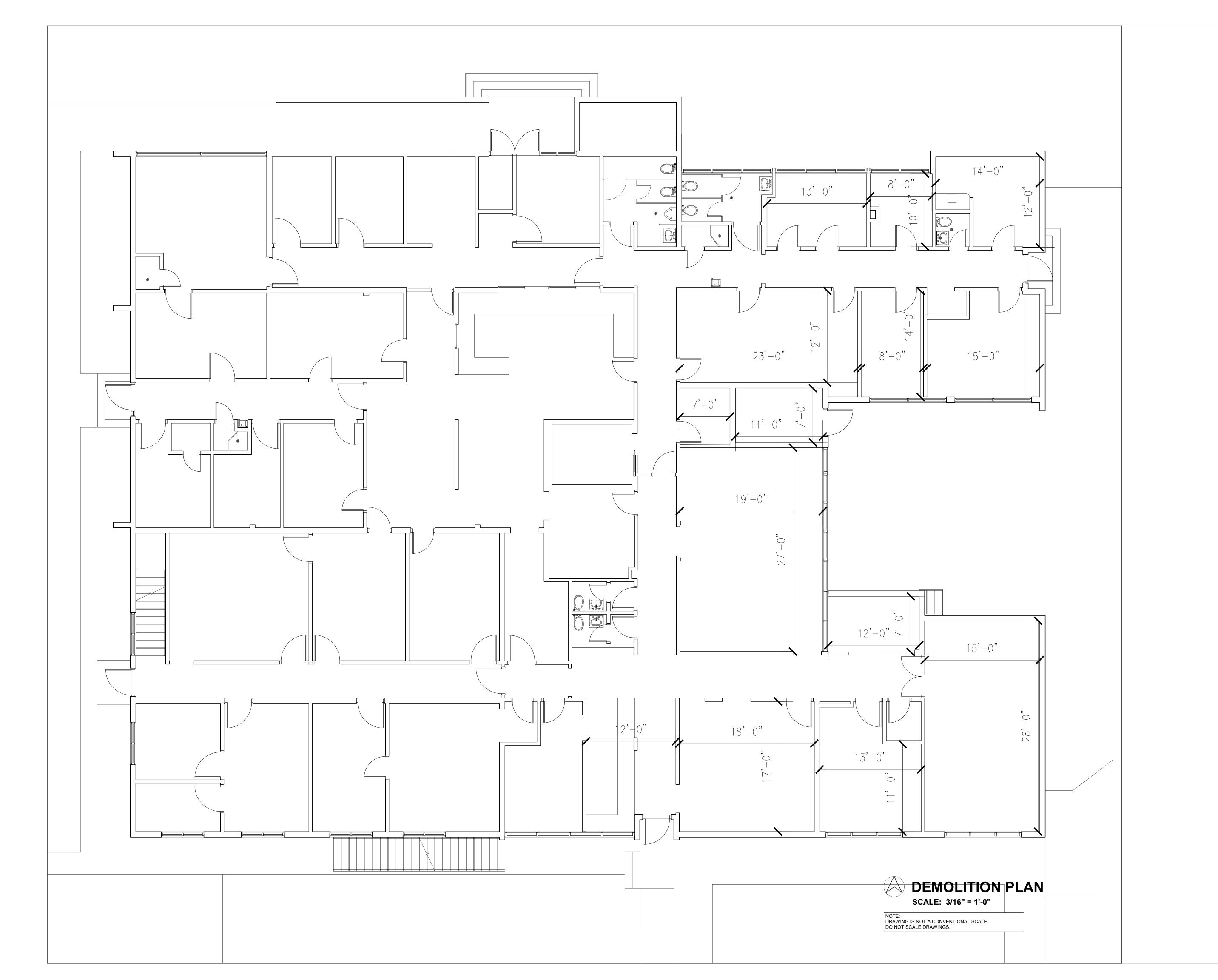
PROJECT NAME: **MANATEE COUNTY MEEMS**

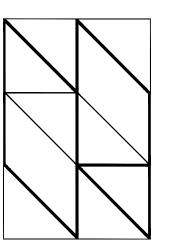
RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE SITE PLAN

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





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

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DATE:			
xx/xx/x	кхх	xxxxxxx	

PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

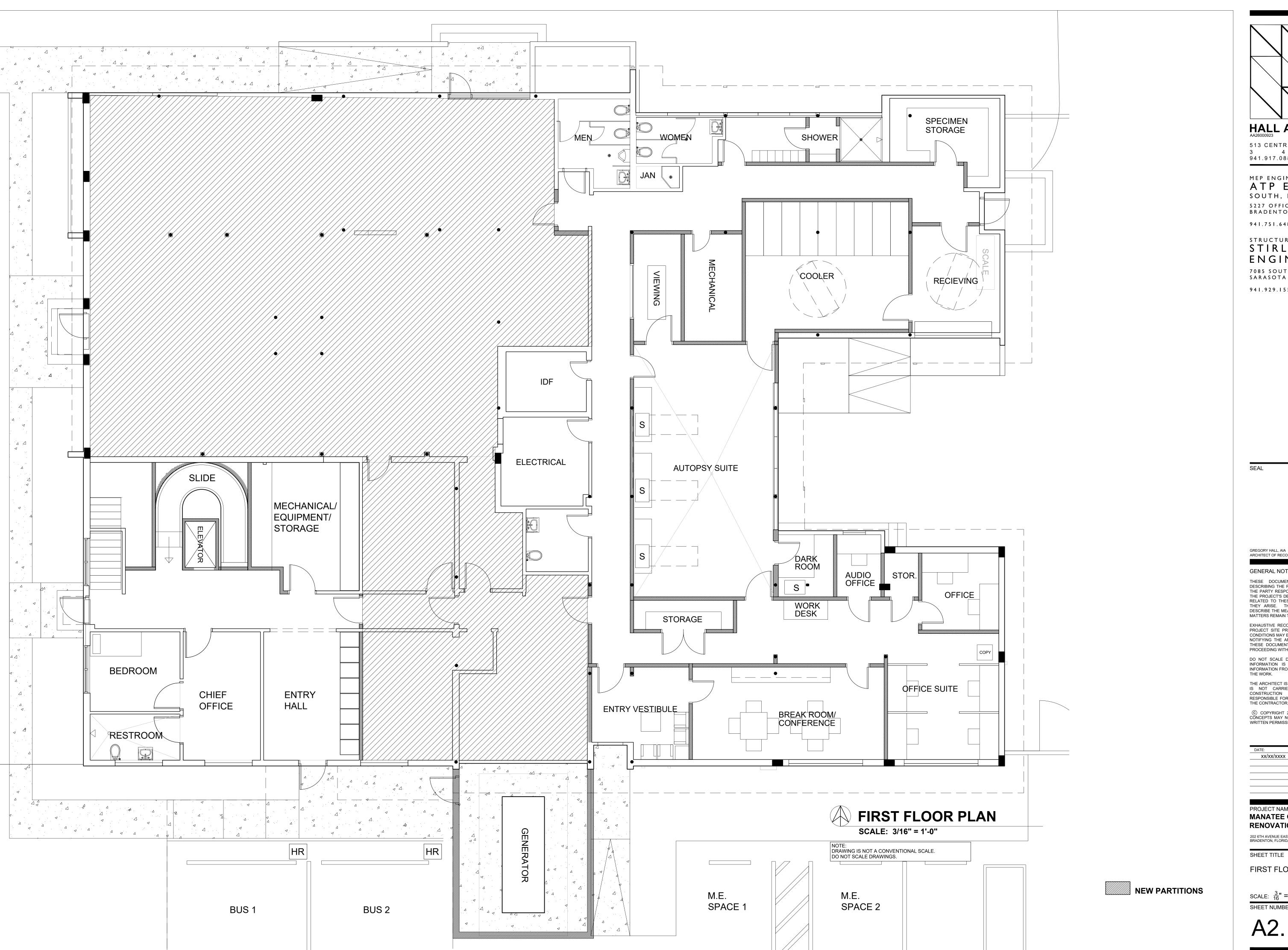
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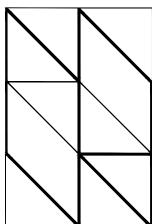
DEMOLITION PLAN

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

SHEET NUMBER

42.0





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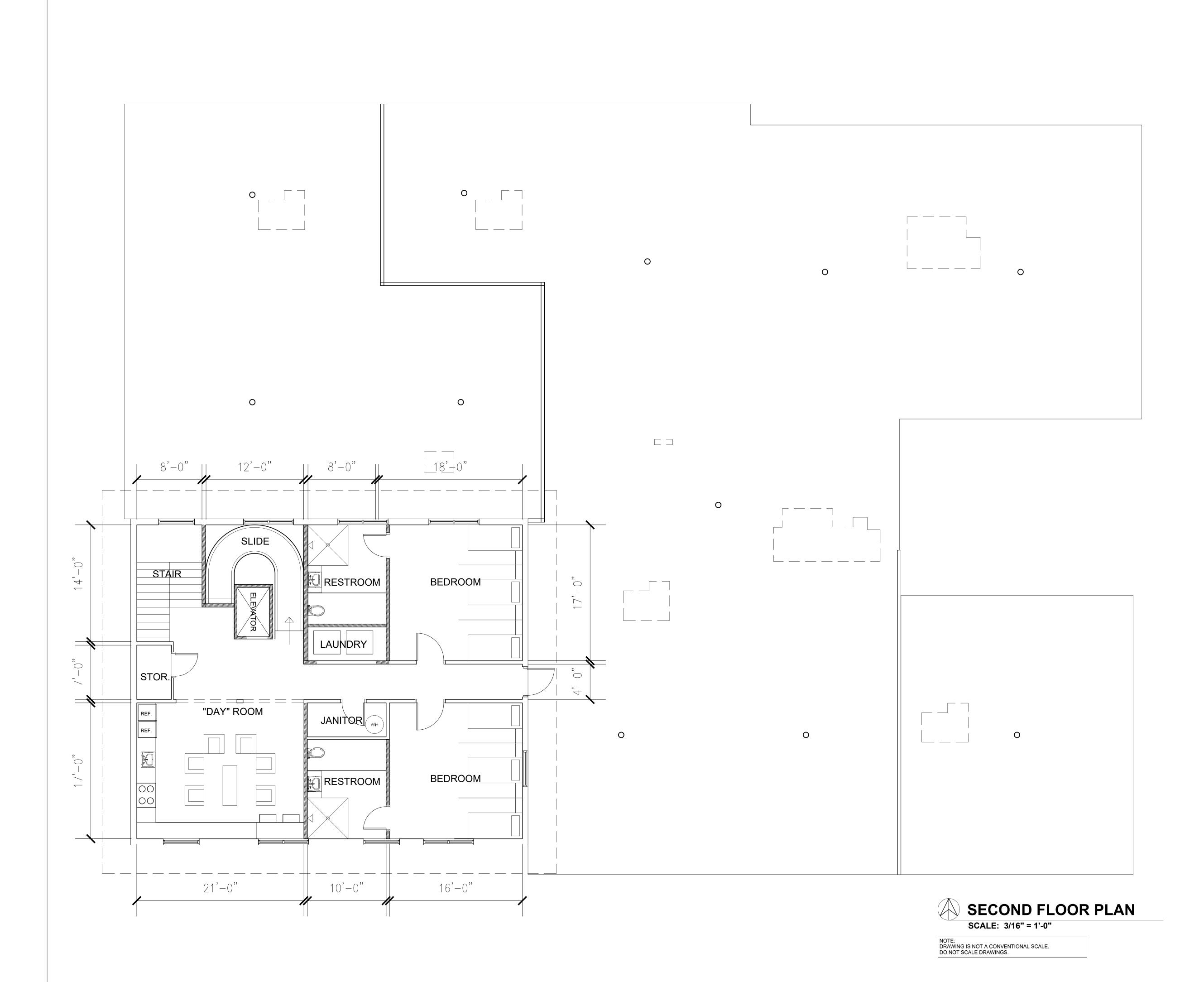
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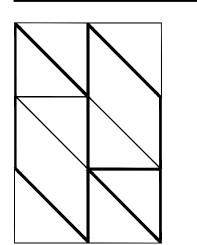
PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

FIRST FLOOR PLAN

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





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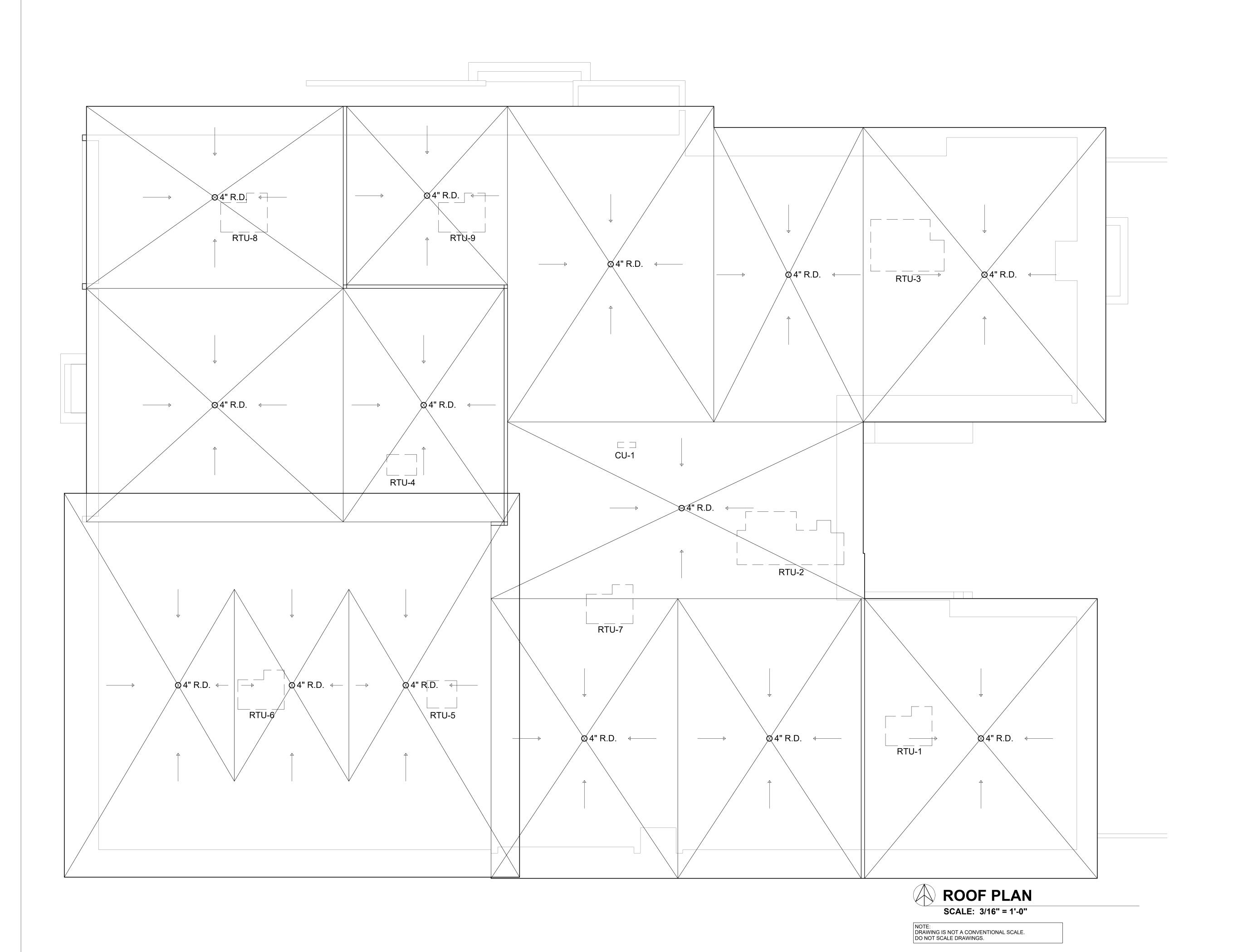
PROJECT NAME: MANATEE COUNTY MEEMS **RENOVATION**

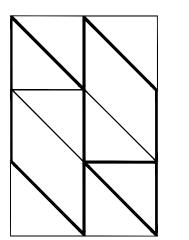
202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

2ND FLOOR PLAN

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





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xx/xx/xxxx	XXXXXXX

PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

ROOF PLAN

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



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

ATP ENGINEERING

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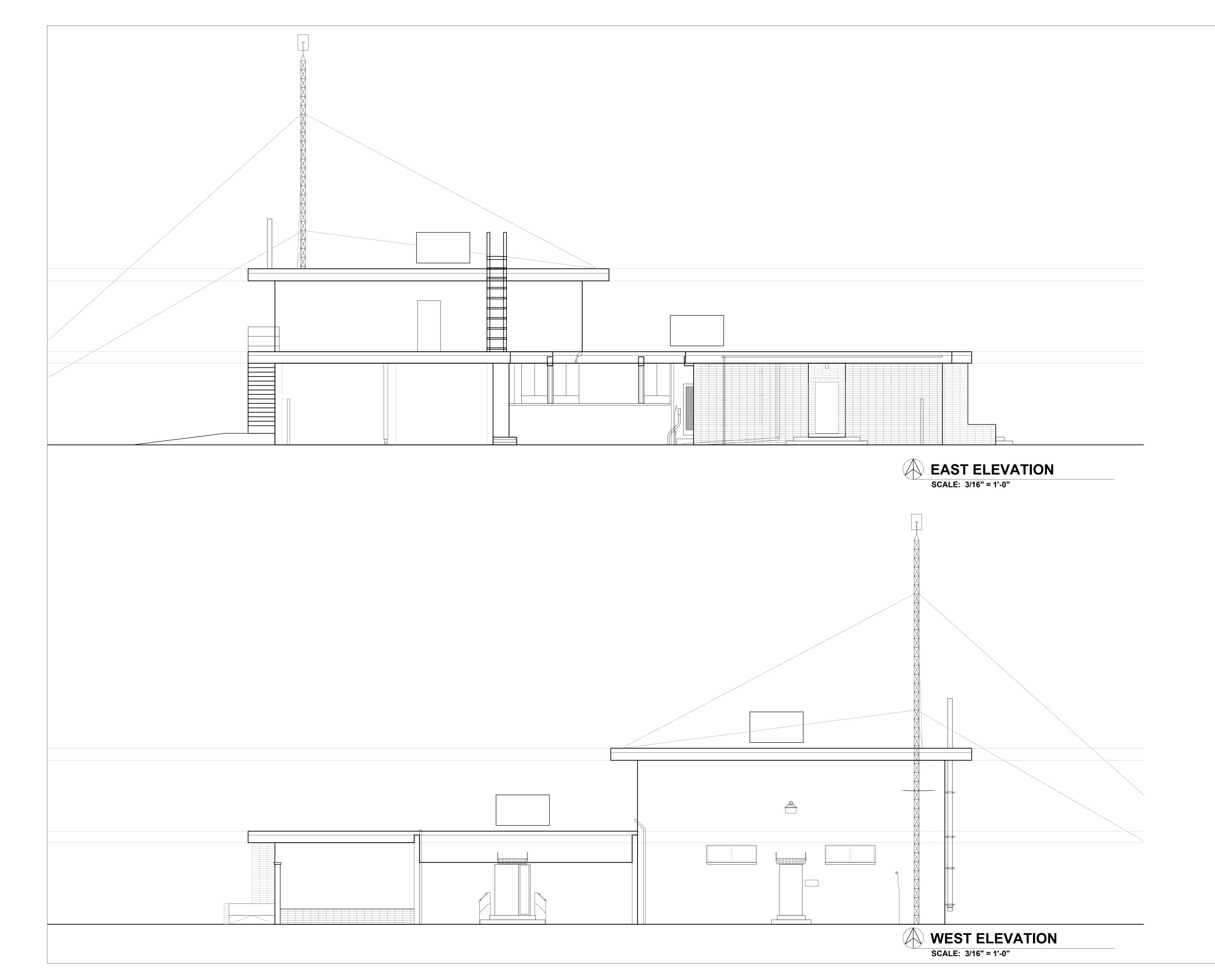
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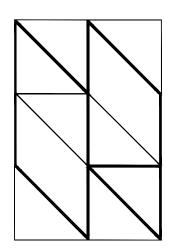
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xx/xx/xxxx	/xxxx xxxxxxx	

MANATEE COUNTY MEEMS





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

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

GENERAL NOTES:

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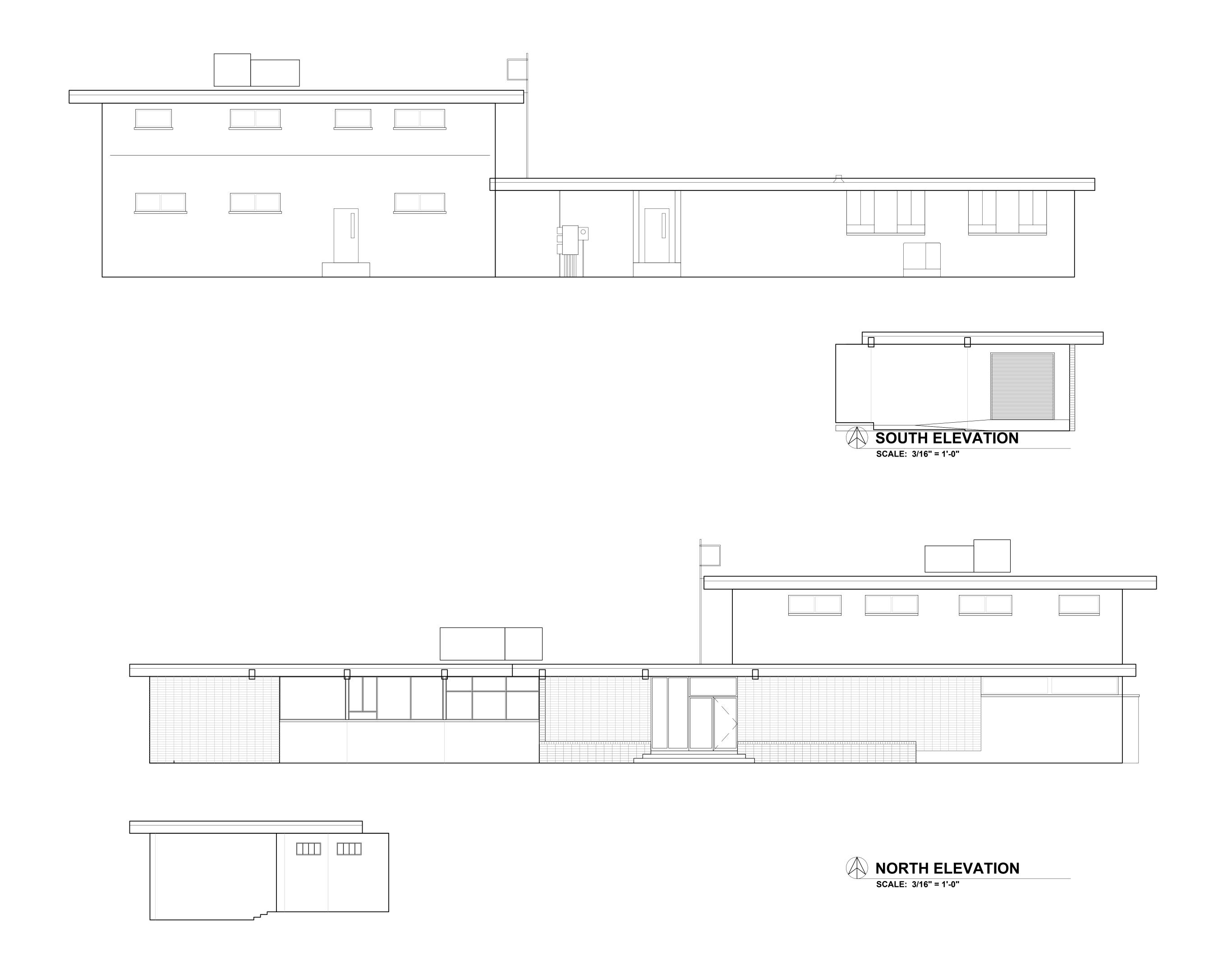
PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

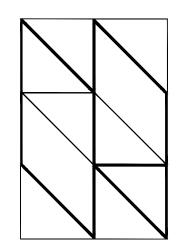
202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

EXISTING EXTERIOR ELEVATIONS

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





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PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

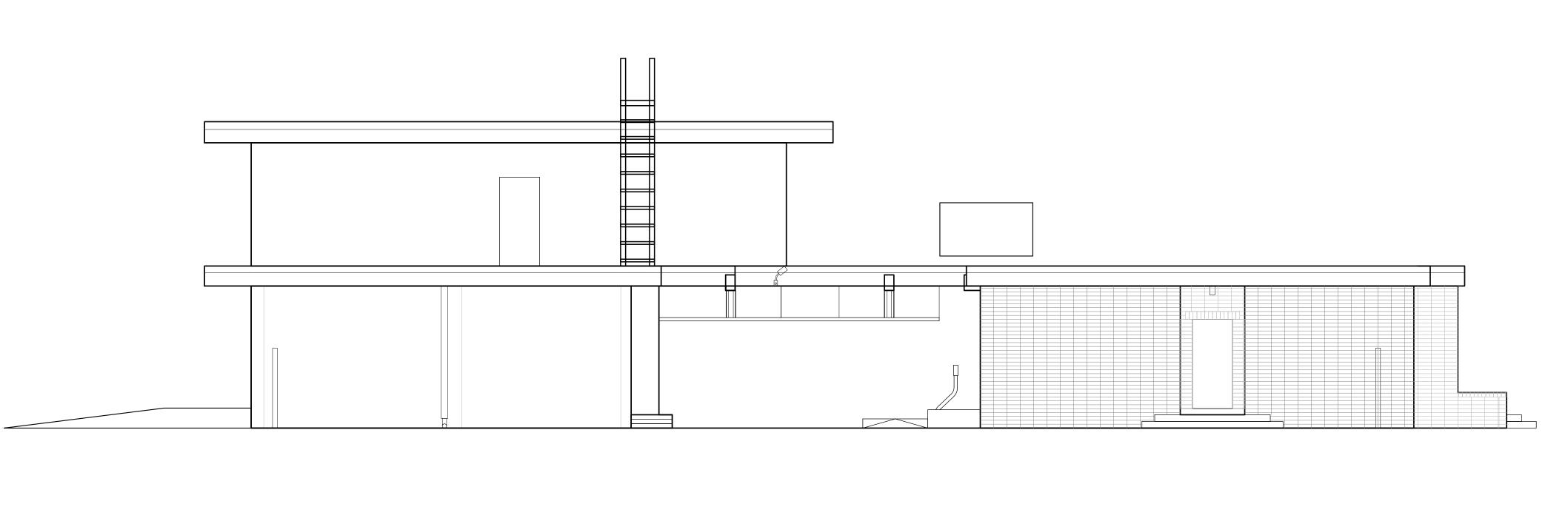
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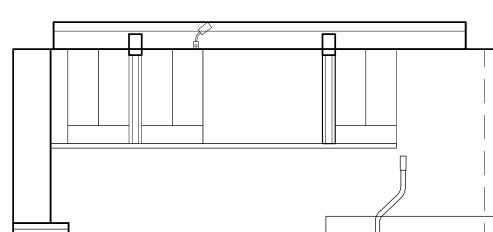
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SCALE: $\frac{3}{16}$ " = 1'
SHEET NUMBER

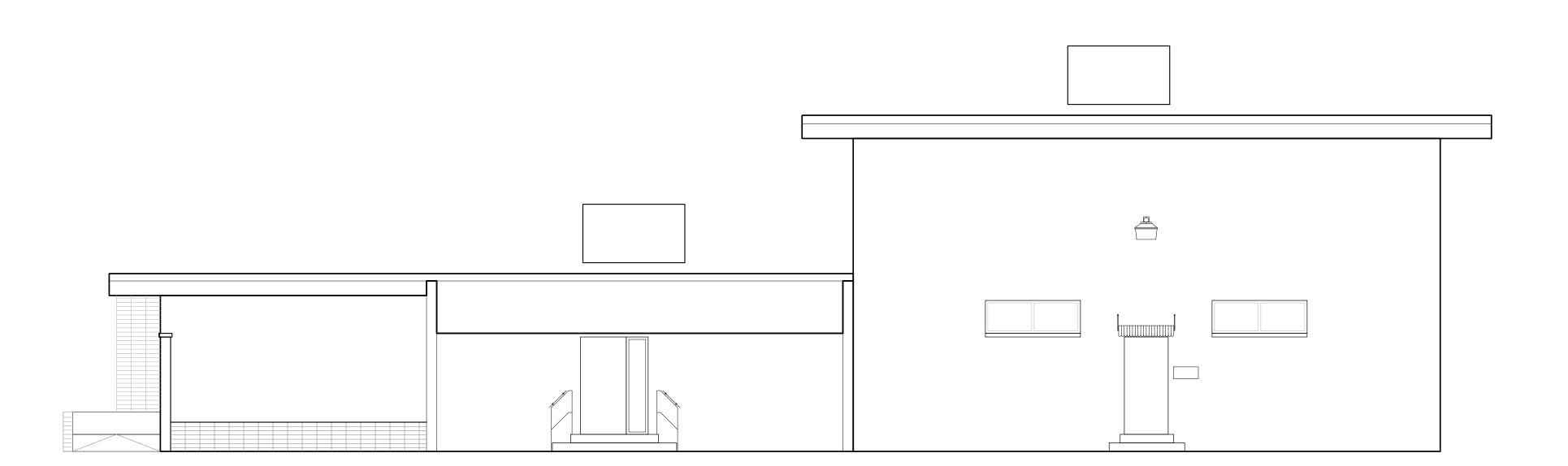
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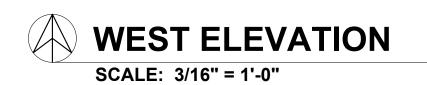
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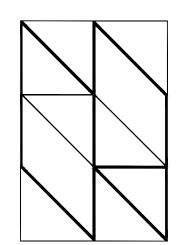












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PROJECT NAME: MANATEE COUNTY MEEMS RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

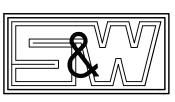
EXTERIOR ELEVATIONS

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

SHEET NUMBER

\3.3

STIRLING & WILBUR ENGINEERING GROUP



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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

REVISIONS

NO. ITEM

DATE

The state of the

STEPHEN WILBUR, PE 42119

 DRAWN BY
 RTR

 CHECKED BY
 SW

 DATE
 07-27-16

 PLOT SCALE
 ¾6"=1'-0"

THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

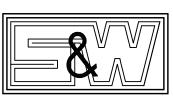
EXISTING FOUNDATION PLAN

SHEET

S1.1

\std\D316

STIRLING & WILBUR ENGINEERING GROUP



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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

REVISIONS

NO. ITEM

DATE

DRAWN BY

CHECKED BY

SW

DATE

07-27-16

PLOT SCALE

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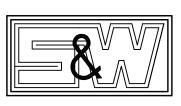
SHEET TITLE

EXISTING 2ND FLOOR / LOW ROOF FRAMING PLAN

SHEET NUMBER

S2.1

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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

REVISIONS

STEPHEN WILBUR, PE 42119

NO. ITEM DATE

DRAWN BY RTF

CHECKED BY SW

DATE 07-27-1

PLOT SCALE ¾16"=1'

THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

EXISTING HIGH ROOF FRAMING PLAN

SHEET NUM

S2.2

EXISTING HIGH ROOF FRAMING PLAN

3/16"=1'-0"

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GENERAL NOTES:
2016009 / GNOTES - GENERAL
DESIGN:
1. THE STRUCTURE DESCRIBED ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED TO COMPLY WITH
    THE FOLLOWING REQUIREMENTS:
        2014 FLORIDA BUILDING CODE
        2014 FLORIDA EXISTING BUILDING CODE: LEVEL 3 ALTERATION
2. DESIGN LOADS:
        LIVE LOADS: SEE PLAN NOTES.
        DEAD LOADS: SEE PLAN NOTES
        WIND LOAD: PER ASCE STANDARD 7-10:
            BUILDING CATEGORY: 4
           V = 160 \text{ MPH (ULTIMATE 3 SECOND GUST)}
            MEAN ROOF HT = 20'
            EXPOSURE = C
            ENCLOSED STRUCTURE: INTERNAL PRESSURE COEFFICIENT = \pm -0.18
            COMPONENTS AND CLADDING DESIGN PRESSURE / SUCTION (PSF): SEE PLAN.
GENERAL:
1. ALL DIMENSIONS, OTHER THAN PURELY STRUCTURAL DIMENSIONS, SHOWN ON THE STRUCTURAL
   DRAWINGS MUST BE CHECKED AGAINST THE ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES
    TO THE ARCHITECT AND ENGINEER OF RECORD, PRIOR TO PROCEEDING WITH THE WORK.
3. OPENINGS, TRENCHES, PITS, BASES AND MECHANICAL EQUIPMENT, WHERE SHOWN, ARE APPROXIMATE
```

AS TO SIZE AND LOCATION. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS AND SIZES, AND FOR ANY OTHER FORMED, ANCHORED, SUPPORTED

OR EMBEDDED ITEMS WHICH AFFECT THE STRUCTURE. 4. NO PROVISION HAS BEEN MADE IN THE STRUCTURAL DESIGN FOR TEMPORARY CONDITIONS OCCURRING DURING CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING REQUIRED TO RESIST STRESSES OR INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR

5. REFER ALSO TO NOTES UNDER PLANS AND TO SCHEDULES ON STRUCTURAL DRAWINGS. 6. ALL CODES AND STANDARDS REFERRED TO ARE LATEST EDITIONS INCLUDING LATEST REVISIONS AND

SHALL ASSUME COMPLETE RESPONSIBILITY FOR SUCH MEASURES.

SUBMITTALS:

1. SUBMIT SHOP DRAWINGS AS DIRECTED WITHIN THE STRUCTURAL CONTRACT DOCUMENTS FOR REVIEW BY THE ENGINEER OF RECORD. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF SEEING THAT THE WORK IS COMPLETE, ACCURATE, AND IN CONFORMANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REVIEW, APPROVE, SIGN AND DATE THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER FOR REVIEW.

FOUNDATIONS:

1. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT EXCAVATIONS. MAXIMUM FOOTING STEP DEPTH SHALL BE 2'-0''.

2. FOUNDATION ELEVATIONS ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF THE DESIGN. ACTUAL JOBSITE CONDITIONS WHICH VARY FROM ASSUMED CONDITIONS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

3. KEEP EXCAVATIONS CONTINUALLY DRY BEFORE POURING CONCRETE. EXCAVATE MATERIAL SOFTENED BY WATER AND THICKEN FOOTING TO SUIT. 4. BACKFILLING AND COMPACTION:

A. SLABS ON GRADE AND STRUCTURAL FRAMING PROVIDING LATERAL SUPPORT TO WALLS WHICH RETAIN EARTH SHALL BE IN PLACE PRIOR TO BACKFILLING. PROVIDE LATERAL SUPPORT TO TOP OF WALLS WHERE TOP SLAB/FRAMING CANNOT BE PLACED UNTIL WALL IS BUILT.

B. WHERE BACKFILLING IS REQUIRED ON BOTH SIDES OF A FOUNDATION WALL, THE GRADE DIFFERENCE SHALL NOT EXCEED 1'-0".

C. BACKFILL SLABS-ON-GRADE, FOOTING EXCAVATIONS AND TRENCHES ONLY WITH APPROVED MATERIAL. FOLLOW BACKFILLING RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. IN THE ABSENCE OF SUCH INFORMATION, AND UNLESS NOTED OTHERWISE, BACKFILL IN 8" (MAX) HIGH LIFTS, COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DRY DENSITY.

D. PROVIDE A 6 MIL POLYETHYLENE VAPOR BARRIER UNDER ALL SLABS-ON-GRADE, UNLESS NOTED OTHERWISE. PROVIDE 6" TAPED LAPS, MINIMUM.

CONCRETE NOTES: 2016009 / GNOTES - CONCRETE

GENERAL:

1. ALL CONCRETE MATERIALS, BATCHING AND WORKMANSHIP SHALL CONFORM TO THE FOLLOWING: 2014 FLORIDA BUILDING CODE ACI 301: SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

ACI 318: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ASTM C94: READYMIX CONCRETE.

2. FORMWORK. SHORING AND RESHORING: THE STRUCTURAL ADEQUACY OF THE DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING AND RE-SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGN OF ALL FORMWORK, SHORING AND RE-SHORING FOR ALL ELEVATED FRAMED CONCRETE SHALL BE CARRIED OUT BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR. REVIEW BY THE ENGINEER OF RECORD OF ANY DRAWINGS OR CONSTRUCTION OF FORMWORK, SHORING OR RE-SHORING IS FOR GENERAL LAYOUT AND EFFECTS ON THE COMPLETED BUILDING STRUCTURE ONLY.

MATERIALS:

1. CONCRETE: MINIMUM COMPRESSIVE STRENGTH(S) FOR CONCRETE SHALL BE AS NOTED ON THE STRUCTURAL PLANS. SLUMP: 4" +/- 1". IN ALL CONCRETE PROVIDE A WATER REDUCING ADMIXTURE CONFORMING TO ASTM C260; ALL OTHER ADMIXTURES SHALL CONFORM TO ASTM C494 AND SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' DIRECTIONS.

2. SUBMIT MIX DESIGN(S) FOR REVIEW BY THE ENGINEER OF RECORD A MINIMUM OF 7 DAYS PRIOR TO INITIAL CONCRETE POUR.

3. REINFORCING STEEL: DEFORMED BARS, CONFORMING TO ASTM A615, WITH A MINIMUM YIELD STRENGTH OF 60 KSI.

4. WELDED WIRE FABRIC: "WELDED STEEL WIRE FABRIC" CONFORMING TO ASTM A185.

1. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED TO CONFORM WITH THE ACI DETAILING MANUAL: ACI SP-66.

2. MINIMUM REINFORCING STEEL LAP SPLICE LENGTH. UNLESS NOTED OTHERWISE. IS 36 x BAR DIA. 3. POUR STRUCTURAL CONCRETE WITHIN THE FOLLOWING TOLERANCES:

VARIATION FROM PLUMB: 1/4" IN 10'-0" VARIATION FROM LEVEL IN TOPS OF SLABS, SOFFITS OF SLABS, BEAM SOFFITS: 1/8" IN 10'-0" VARIATION FROM CONSPICUOUS LINES AT LINTELS, SILLS, PARAPETS, GROOVES, ETC.: 1/4" IN ANY BAY VARIATION OF BUILDING LINES, COLUMN CENTERLINES, WALLS OR PARTITIONS FROM PLAN LOCATION: 1/4" IN BAY OF 20' MAX; 1/2" IN BAY OF 40' MAX

VARIATION IN SIZE OF WALL OR FLOOR OPENINGS: +1/2", -0"VARIATION IN CROSS-SECTION DIMENSIONS: BEAMS AND COLUMNS: +1/2'', -1/4''SLABS AND WALLS: +1/4'', -0''VARIATION FOOTINGS AND PILECAPS: PLAN DIMENSIONS: +2'', -1/2''THICKNESS: - 0"

VARIATION IN STAIRS: RISE: +/-1/8''; TREAD: +/-1/4''4. MINIMUM CONCRETE COVER TO REINFORCING STEEL, UNLESS NOTED ON DRAWINGS:

CAST AGAINST EARTH: 3" EXPOSED TO EARTH OR WEATHER: 1-1/2" INTERIOR: SLABS AND WALLS: 1"

BEAMS AND COLUMNS: 1-1/2" 5. CONSTRUCTION JOINTS: THE LOCATION OF ALL CONSTRUCTION JOINTS, UNLESS SHOWN ON THE DRAWINGS, IN CONCRETE WALLS, SLABS AND BEAMS SHALL BE APPROVED BY THE ENGINEER, PRIOR TO CONSTRUCTION. JOINTS IN SLABS SHALL BE PERPENDICULAR TO THE SPAN, AT MID-SPAN, WITH VERTICAL BULKHEADS. UNLESS NOTED OTHERWISE CONCRETE WALL REINFORCEMENT IS BASED ON VERTICAL CONSTRUCTION JOINT SPACING OF 30'-0", MAX. BEAMS SHALL BE CONSTRUCTED WITH NO HORIZONTAL CONSTRUCTION JOINTS.

6. INSERTS, SLEEVES, CONDUITS, FASTENERS, ETC, WHERE REQUIRED BY THE DOCUMENTS, SHALL BE INSTALLED SO AS NOT TO IMPAIR THE INTEGRITY OF THE STRUCTURE, AND IN A MANNER WHICH WILL NOT REQUIRE THE BENDING, CUTTING OR DISPLACEMENT OF THE REINFORCEMENT. PLACE CONDUIT IN SLABS ABOVE THE BOTTOM REINFORCEMENT, BELOW THE TOP REINFORCEMENT, OF DIAMETER LESS THAN 1/3 x THE SLAB THICKNESS, SPACED AT LEAST 3 DIAMETERS C/C. MINIMUM COVER SHALL BE 1".

7. FOR READYMIX CONCRETE THE MAXIMUM TIME PERMITTED BETWEEN BATCHING AND DEPOSITING IN THE FORMWORK IS 90 MINUTES. CONCRETE NOT PLACED WITHIN THIS TIME LIMIT SHALL BE REJECTED.

8. THE ADDITION OF MIX WATER AT THE SITE TO INCREASE THE CONCRETE SLUMP SHALL NOT BE ALLOWED AND SHALL BE CAUSE FOR REJECTION OF THAT BATCH OF CONCRETE.

9. THE CONTRACTOR SHALL ARRANGE FOR CONCRETE TESTING BY AN INDEPENDENT TESTING LAB IN

ACCORDANCE WITH FLORIDA BUILDING CODE / ACI 318 REQUIREMENTS. 10. OPENINGS OR FASTENERS REQUIRED AFTER CONCRETE PLACEMENT SHALL BE INSTALLED ONLY WITH

THE APPROVAL OF THE ENGINEER. 11. FINISHES: REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONFORM TO ACI 302. 12. REPAIR / DEFECTIVE WORK: CUT OUT AND PATCH HONEY-COMBED AREAS IN AN APPROVED MANNER. FILL ALL HOLES FROM FORM—TIES AND SEPARATORS.

MASONRY NOTES: 2016009 / GNOTES -MASONRY

1. THESE NOTES PROVIDE MINIMUM STRUCTURAL REQUIREMENTS. REFER TO ARCHITECTURAL

DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS OTHER THAN STRUCTURAL. 2. MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING: 2014 FLORIDA STANDARD BUILDING CODE

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - ACI 530 SPECIFICATIONS FOR MASONRY STRUCTURES - ACI 530.1

MATERIALS:

 CONCRETE BLOCK: MODULAR UNITS, NORMAL WEIGHT (UNLESS NOTED OTHERWISE), CONFORMING TO ASTM C90, WITH A MINIMUM UNIT COMPRESSIVE STRENGTH OF 1900 PSI, BASED ON THE NET UNIT AREA.

MORTAR: TYPE 'M' OR 'S', CONFORMING TO ASTM C270. MASONRY GROUT FOR FILLED CELLS: CONFORM TO ASTM C476. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI. SLUMP: 7'' + /- 1''. ALTERNATELY, FILLED CELLS MAY BE PLACED WITH 3000 PSI CONCRETE WITH A SLUMP OF 7'' + /- 1''.

4. HORIZONTAL JOINT REINFORCEMENT: GALVANIZED, LADDER-TYPE, WITH 9 GAGE SIDE AND CROSS RODS. PROVIDE PRE-FABRICATED CORNER AND TEE SECTIONS AT ALL INTERSECTIONS.

EXECUTION:

1. NET AREA COMPRESSIVE STRENGTH OF MASONRY CONSTRUCTION (F'M) SHALL BE 1500 PSI, MIN. 2. PROVIDE HORIZONTAL JOINT REINFORCEMENT, UNLESS NOTED OTHERWISE, AT 16" O/C VERTICALLY. PROVIDE ADDITIONAL REINFORCEMENT ABOVE AND BELOW ALL OPENINGS, EXTENDING 2'-0" BEYOND EACH SIDE OF OPENING. PROVIDE STANDARD DOVETAIL ANCHORS TO

SECURE MASONRY TO ABUTTING CONCRETE COLUMNS. PROVIDE MINIMUM BEARING OF 8" ON MASONRY FOR BEAMS, LINTELS OR BASEPLATES. BEARING

SHALL BE ON HOLLOW BLOCKS GROUTED SOLID AND REINFORCED AS SHOWN ON PLANS. 4. UNLESS NOTED OTHERWISE, PROVIDE A CONTINUOUS 'KNOCK-OUT' COURSE, FILLED SOLID WITH

3000 PSI CONCRETE, AT THE TOP OF ALL LOAD BEARING MASONRY WALLS. 5. IN HOLLOW MASONRY EXTERIOR WALLS PROVIDE REINFORCED VERTICAL FILLED CELLS WHERE SHOWN ON PLAN. AS A MINIMUM REQUIREMENT, PROVIDE 1 #5 VERTICAL BAR AT ALL CORNERS, JAMBS OF OPENINGS AND AS SHOWN ON PLAN. REGARDLESS OF INFORMATION SHOWN ON PLAN, VERTICAL REINFORCEMENT SPACING AT EXTERIOR WALLS SHALL NOT EXCEED 6'-0"ON CENTER. FILLED CELLS SHALL BE GROUTED SOLID IN MAXIMUM LIFTS OF 12'-0" HEIGHT. PROVIDE CLEANOUT / INSPECTION HOLES AT THE BOTTOM OF ALL FILLED CELLS. MORTAR JOINTS SHALL

BE FULLY BEDDED AT ALL FILLED CELLS. AT SILLS OF WINDOW OPENINGS IN LOAD-BEARING MASONRY WALLS, PROVIDE 8"x 8"KNOCKOUT COURSE, POURED SOLID AND REINFORCED WITH 1 #5 HORIZONTAL BAR, TYPICAL UNLESS NOTED OTHERWISE ON PLAN OR DETAILS.

STRUCTURAL STEEL NOTES: 2016009 / GNOTES - STEEL

GENERAL:

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND

COMPLY WITH THE 2014 FLORIDA BUILDING CODE.

3. THE DESIGN, FABRICATION AND ERECTION OF OPEN WEB STEEL JOIST CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: .1 'STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS, K-SERIES', ADOPTED BY THE STEEL JOIST INSTITUTE.

.2 STANDARD SPECIFICATIONS FOR LONGSPAN STEEL JOISTS, LH-SERIES, AND DEEP LONGSPAN JOISTS, DLH-SERIES', ADOPTED BY THE STEEL JOIST INSTITUITE. .3 STANDARD SPECIFICATIONS FOR JOIST GIRDERS', ADOPTED BY THE STEEL JOIST INSTITUTE. SUBMIT SHOP AND ERECTION DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD FOR ALL

STRUCTURAL STEEL COMPONENTS INDICATING THAT THE INTENT OF THE STRUCTURAL DESIGN HAS BEEN UNDERSTOOD AND ACCOMPLISHED. SHOP DRAWINGS SHALL INDICATE AT LEAST THE FOLLOWING INFORMATION: MATERIALS, MEMBER SIZES SPACING AND LOCATIONS, TYPES AND DETAILS OF ALL CONNECTIONS, SPLICES, OPENINGS, REACTIONS, AND CLEANING AND PAINTING REQUIREMENTS. UNLESS DETAILED ON THE STRUCTURAL DRAWINGS, ALL CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR.

5. ALL OPEN WEB STEEL JOISTS, LONGSPAN JOISTS, AND JOIST GIRDERS, SHALL BE DESIGNED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER RETAINED BY THE JOIST MANUFACTURER. SHOP DRAWINGS FOR ALL JOISTS AND GIRDERS SHALL INCLUDE A CERTIFICATION FROM THE JOIST MAUNFACTURER, BEARING THE SIGNATURE AND SEAL OF THE ENGINEER RESPONSIBLE FOR THE DESIGN, THAT THE JOISTS PROVIDED MEET THE SPECIFIED LOADING REQUIREMENTS. ADDITIONALLY, AS A MINIMUM, ALL SHOP DRAWINGS SHALL: REFERENCE THIS SPECIFIC PROJECT, LIST ALL DESIGN CRITERIA AND LOADS, INDICATE ALL BRIDGING AND BRACING REQUIREMENTS, AND INCLUDE ALL DETAILS NECESSARY FOR PROPER ERECTION.

MATERIALS:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

HOT ROLLED SECTIONS: WIDE FLANGE SHAPES: ASTM A992 (MIN YIELD STRENGTH = 50 KSI) PLATE, ANGLES AND CHANNELS: ASTM A36 (MIN YIELD STRENGTH = 50 KSI) ROUND, SQUARE AND RECTANGULAR HOLLOW STRUCTURAL TUBE SECTIONS (HSS): ASTM A500, GRADE B (MIN YIELD STRENGTH = 46 KSI)

ROUND STEEL PIPE SECTIONS: ASTM A53, GRADE B (MIN YIELD STRENGTH = 35 KSI) 2. ALL BOLTS, NUTS AND WASHERS FOR CONNECTIONS, UNLESS OTHERWISE SPECIFIED, SHALL

CONFORM TO ASTM A325. ALL ANCHOR BOLTS FOR BASE AND BEARING PLATES SHALL CONFORM TO ASTM A307.

4. WELDING AND WELDER QUALIFICATIONS SHALL CONFORM TO THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY (AWS D1.1).

EXECUTION:

1. FABRICATION AND ASSEMBLY AND ERECTION SHALL COMPLY WITH AISC SPECIFICATIONS REFERENCED ABOVE. SHOP-ASSEMBLE WORK TO THE GREATEST EXTENT POSSIBLE.

2. MINIMUM FRAMED BEAM CONNECTIONS SHALL COMPLY WITH DETAILS IN THE AISC "MANUAL OF STEEL CONSTRUCTION". UNLESS NOTED OTHERWISE, BEAM REACTIONS MAY BE TAKEN AS 50 PERCENT OF THE ALLOWABLE UNIFORM BEAM LOAD FOR THE SPAN.

WELDING SHALL CONFORM TO AWS D1.1. 4. CLEAN AND SHOP-PRIME ALL STRUCTURAL STEEL SURFACES AFTER FABRICATION. CLEAN AND

PREPARE SURFACE TO SSPC-SP2 REQUIREMENT FOR STANDARD RED-OXIDE PRIMER APPLICATION. HOT-DIP GALVANIZING, WHERE REQUIRED, SHALL CONFORM TO ASTM A-123 REQUIREMENTS, WITH SURFACE PREPARATION TO SSPC-SP5. NO HOLES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE PERMITTED

WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. ALL NECESSARY TEMPORARY SHORING AND BRACING SHALL BE PROVIDED BY THE CONTRACTOR. BRACING SHOWN ON THE STRUCTURAL DRAWINGS IS FOR THE COMPLETED

STRUCTURE ONLY. 7. AFTER ERECTION, CLEAN AND PREPARE ALL FIELD WELDS, SCRATCHES AND ABRASIONS, AND

TOUCH UP WITH SPECIFIED PRIMER PRIOR TO FINISH PAINT.

STEEL DECK NOTES 2016009 / NOTES - STEEL DECK

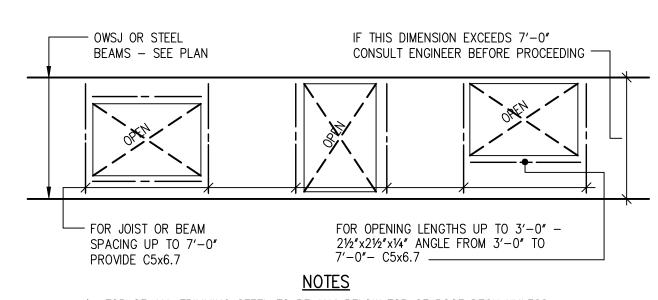
1. STEEL DECK UNITS SHALL CONFORM TO AISI SPECIFICATION FOR COLD FORMED STRUCTURAL MEMBERS. STEEL FOR METAL DECK SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. 2. STEEL DECK SHALL BE MANUFACTURED FROM STEEL SHEET CONFORMING TO ASTM A611. GRADES C. D. OR E. OR. FROM A446 GRADES A. B. C. D. E. OR F.

3. ALL METAL DECK UNITS SHALL HAVE A GALVANIZED FINISH, WITH A G-90 COATING. 4. THE DECK MANUFACTURER SHALL FURNISH RIDGE AND VALLEY PLATES, CANT STRIPS AND MISCELLANEOUS TRIM SECTIONS AS SHOWN ON THE DRAWINGS, AND AS REQUIRED, TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF INSULATION AND ROOFING.

5. PLACE DECK UNITS WITH A MINIMUM OF THREE CONTINUOUS SPANS WHEREVER POSSIBLE. 6. MINIMUM END LAP IS 2".

7. FASTEN STEEL DECK TO ALL SUPPORTING MEMBERS IN ACCORDANCE WITH THE FASTENER PATTERN SPECIFIED ON THE DRAWINGS.

8. CLEAN FIELD WELDS BY WIRE BRUSHING AND TOUCH UP PAINT WITH INORGANIC ZINC RICH



1. TOP OF ALL TRIMMING STEEL TO BE 11/2" BELOW TOP OF ROOF DECK UNLESS

OTHERWISE NOTED. 2. LOCATION OF ALL MECHANICAL UNITS AND OPENINGS THROUGH ROOF SHALL BE BASED ON INFORMATION SUPPLIED BY MECHANICAL DRAWINGS. THE STRUCTURAL STEEL SUB-CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR. OWSJ MUST BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS. IF LOCATIONS OR DETAILS VARY FROM THOSE SHOWN, THE STRUCTURAL ENGINEER MUST BE INFORMED AND INSTRUCTIONS RECEIVED

BEFORE PROCEEDING WITH THIS WORK.

3. THE STRUCTURAL STEEL SUB-CONTRACTOR SHOULD SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND/OR CONTRACTOR FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.

TYPICAL DETAIL FOR TRIMMING TO OPENINGS THROUGH STEEL ROOF DECK

STANDARD ABBREVIATIONS

			1		
A. BOLT (A.B.) ADJ. ARCH'L AIFB	Anchor Bolt Adjustable Architectural Asphalt Impregnated Fibre Board	GA. GALV. GB	GAUGE GALVANIZED GRADE BEAM	SDF SPEC. SST ST. STD.	STEP DOWN FOOTING SPECIFICATIONS SQUARE STRUCTURAL TUBE STEEL STANDARD SOUARE
B. (BOT.) BE W BLL	BOTTOM BOTTOM EACH WAY BOTTOM LOWER LAYER	H. (HOR.) HEF HIF HOF	HORIZONTAL HORIZONTAL EACH FACE HORIZONTAL INSIDE FACE HORIZONTAL OUTSIDE FACE	SQ. SDL STRUCT. S.P.F.	SUDARE SUPERIMPOSED DEAD LOAD STRUCTURAL SPRUCE/PINE/FIR
BML BUL BLDG. BM B. PL (B.P.)	BOTTOM MIDDLE LAYER BOTTOM UPPER LAYER BUILDING BEAM BASE PLATE	INT. INV.	INTERIOR INVERT	TSE T TLL TML TUL TEMP.	THICKENED SLAB EDGE TOP TOP LOWER LAYER TOP MIDDLE LAYER TOP UPPER LAYER TEMPERATURE
C/C Q CANT. COL.	CENTER TO CENTER CENTERLINE CANTILE VER COLUMN	JT. JST.	JOINT JOIST	TYP. Trans. TSF. TJ T.O.D.	TYPICAL TRANSVERSE TONS PER SQUARE FOOT TIE JOIST TOP OF DECK
CONC. CONST. CONT. C.J.	CONCRETE CONSTRUCTION CONTINUOUS CONTROL JOINT	К	KIPS	T.O.S.	TOP OF SLAB (TOP OF STEEL)
CONST. JT. C.A.	CONSTRUCTION JOINT COLUMN ABOVE	L LB. (#) L.L.	ANGLE POUNDS LIVE LOAD	U/S U.N.O	UNDERSIDE UNLESS NOTED OTHERWISE
DIAG. Ø (DIA.) D. FIR DIM	DIAGONAL DIAMETER DOUGLAS FIR DIMENSION	LG. LLV LLH LONG.	LONG LONG LEG VERTICAL LONG LEG HORIZONTAL LONGITUDINAL	V. (VERT.) VEF VIF VOF	VERTICAL VERTICAL EACH FACE VERTICAL INSIDE FACE VERTICAL OUTSIDE FACE
DJ D.L. do DWG. DWL. DT	DOUBLE JOIST DEAD LOAD DITTO DRAWING DOWEL DOUBLE TEE	MAX. MECH'L MEZZ. MIN. MISC. MOM.	MAXIMUM MECHANICAL MEZZANINE MINIMUM MISCELLANEOUS MOMENT	WD. WP. W W.W.F. W.W.M.	WOOD WALL PLATE WIDE FLANGE BEAM WELDED WIRE FABRIC WELDED WIRE MESH
EA. EE	EACH EACH END	M.C. M.S.L.	MOMENT CONNECTION MEAN SEA LEVEL		
EF EJ EW EWB EWT ELEV.	EACH FACE EXPANSION JOINT EACH WAY EACH WAY BOTTOM EACH WAY TOP ELEVATION	N-S N.T.S. NO. (#)	NORTH-SOUTH NOT TO SCALE NUMBER		
ELECT. E-W EQ. Exist. Ext.	ELECTRICAL EAST-WEST EQUAL EXISTING EXTERIOR	OWSJ O/C	open web steel joist on center		
FF FDN. FIN. FL FTG. FMC	FAR FACE FOUNDATION FINISHED FLOOR FOOTING FULL MOMENT CONNECTION	PL PC PROJ. PSI PSF PLF P.T.	PLATE PRECAST PROJECTION POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT POUNDS PER LINEAL FOOT PRESSURE TREATED		
		REF. REINF. REQ'D REV.	REFERENCE REINFORCING REQUIRED REVISION/REVISED		

JOISTS SUPPORTING UP TO

BE WELDED WITH NOT LESS

SUPPORTING MORE THAN

BY 1" LONG, JOISTS

FILLET WELDS BY

100 SQ, FT, OF AREA

SHALL BE WELDED WITH

100 SQ. FT. OF AREA SHALL

CEILING EXTENSION WHERE

REQUIRED (TYPICAL) ---

JOIST PARALLEL TO

JOIST BEARING ON STEEL

- 2-1/2" MIN. BEARING UNLESS SHOWN ON

DRAWINGS. (WHEN JOISTS FRAME FROM

ONE SIDE ONLY. CENTERLINE OF BEARING

WOOD DECKING

ON NAILER —

CENTERLINES OF DIAGONALS TO INTERSECT AT A POINT

WITH THE CENTROID OF THE BOTTOM CHORD (TYPICAL)

TIE JOIST

BRIDGING (SEE NOTES BELOW

CONSTRUCTION AND STEEL JOIST INSTITUTE.

B) "STANDARD SPECIFICATIONS FOR LONGSPAN STEEL JOISTS, LH—SERIES AND DEEP LONGSPAN STEEL JOISTS, DLH—SERIES

E CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHEN PLACING DECKING OVER O.W.S.J. TO AVOID LATERAL

PROVIDE MINIMUM OF 3 COURSES OF BRICK OR 1 COURSE OF SOLID BLOCK 16' LONG MINIMUM OR 1 COURSE OF LINTEL BLOCK 16' LONG MINIMUM FILLED WITH 3000 PSI CONCRETE, CENTERED UNDER EACH JOIST SHOE.

5. EACH LINE OF BRIDGING SHALL BE ADEQUATELY ANCHORED AT EACH END TO STURDY WALLS OR TO MAIN COMPONENTS
OF THE STRUCTURAL FRAME, IF PRACTICAL, IF NOT PRACTICAL, DIAGONAL AND HORIZONTAL BRIDGING SHALL BE PROVIDED

6. SIZE AND SPACING OF BRIDGING SHALL BE AS REQUIRED BY THOSE SPECIFICATIONS LISTED IN NOTE #1 ABOVE. BRIDGING INDICATED ON THE STRUCTURAL DRAWINGS TO BE CONSIDERED AS A MINIMUM ONLY.

ALL BRIDGING SHALL BE ADEQUATELY CONNECTED TO THE JOIST CHORDS BY WELD OR BY APPROVED MECHANICAL MEANS

TYPICAL DETAIL OF OPEN WEB STEEL JOIST SUPPORTING DECKING

BRIDGING SHALL BR COMPLETELY INSTALLED BEFORE ANY CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.

9. WHERE BRIDGING IS INTERRUPTED BY OPENINGS THROUGH DECKING OR BY DUCTWORK, PROVIDE A COMBINATION OF

HORIZONTAL AND DIAGONAL BRIDGING (AS NOTE #5) IN FIRST BAYS BETWEEN JOISTS EACH SIDE OF INTERRUPTION.

10. ALTERNATIVE DETAILS ARE TO BE SUBITTED FOR APPROVAL BEFORE PROCEEDING.

THE DESIGN, FABRICATION AND ERECTION OF OPEN WEB STEEL JOIST CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS (LATEST EDITION):

A) "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, H-SERIES", ADOPTED BY AMERICAN INSTITUTE OF STEEL

ADOPTED BY AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND STEEL JOIST INSTITUTE C) "STANDARD SPECIFICATIONS FOR JOIST GIRDERS" ADOPTED BY STEEL JOIST INSTITUTE.

DEFLECTION AND TWISTING OF JOISTS. THIS APPLIES PARTICULARLY TO FREE ENDS OF JOIST RUNS.

METAL DECK SHALL BE INSTALLED DIRECTLY ON TOP OF JOISTS WITH FLAT TOP CHORDS ONLY.

COMBINATION BETWEEN ADJACENT JOISTS NEAR THE ENDS OF BRIDGING LINES.

APABLE OF RESISTING AN AXIAL FORCE OF AT LEAST 500 LBS.

SHALL BE OVER CENTERLINE OF BEAM).

STEEL DECK -

EXTEND TOP AND BOTTOM CHORDS

AND CONNECT TO SUPPORT WITH

WIND MOMENTS, IF SHOWN ON

30% OF CHORDS CAPACITY

DRAWINGS. BUT NOT LESS THAI

— NO END PANEL LENGTH SHALL EXCEED THE LENGTH

OF A TYPICAL INTERIOR PANEL UNLESS APPROVED BY THE ENGINEER

JOIST BEARING ON MASONRY

AS NOTED ABOVE -

WELD STEEL DECK

TO PLATE

JOIST PARALLEL TO LOAD BEARING

MASONRY ANCHORAGE OF BRIDGING

CONCRETE SLAB -

STEEL DECK -

CEILING EXTENSION WHERE REQUIRED (TYPICAL)

WELD BOTTOM CHORD TO ANGLE

W/3-1/2" ANCHOR BOLTS

WITH 2-3/16"x2" LONG FILLET WELDS.

BEARING PLATE

W/2-1/2" Ø x1'-0"

(IF JOISTS BEAR

FROM BOTH SIDES

OF WALL USE 8"x1/4

PLATE) WELD JOIST TO REARING PLATE

OIST BEARING ON

OR EXPANSION

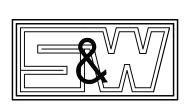
BOLTS x8" LONG

AS REQUIRED FO

MASONRY BEARING

LÓNG ANCHOR BOLTS.

ENGINEERING GROUP



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PROJECT NAME

MANATEE COUNTY MEDICAL EXAMINER OFFICE - EMS FACILITY RENOVATION

202 6TH AVENUE EAST BRADENTON, FLORIDA

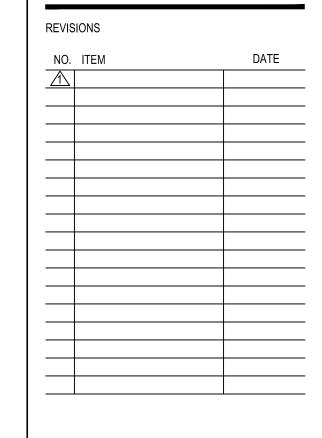
ISSUED FOR

PRELIMINARY 07-27-16 (30% PROGRESS SET

PROJECT NUMBER W2016-009

SIGN/SEAL

STEPHEN WILBUR, PE 42119



DRAWN BY CHECKED BY 07-27-16 PLOT SCALE $\frac{3}{4}'' = 1' - 0''$

THIS DRAWING IS NOT TO BE SCALED.

SHEET TITLE

GENERAL NOTES AND TYPICAL DETAILS

SHEET NUMBER

std\D34

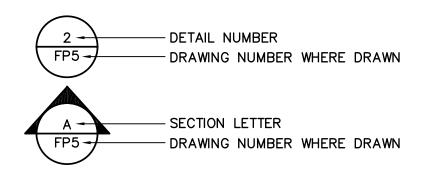
LEGENDS, GENERAL NOTES AND ABBREVIATIONS

ABBREVIATIONS AIR CONDITIONING ACCESS DOOR ABOVE FINISHED FLOOR AIR HANDLING UNIT ANALOG INPUT ANALOG OUTPUT ACCESS PANEL BFF BELOW FINISHED FLOOR BHP BRAKE HORSE POWER BOT COOLING COIL CD CONDENSATE DRAIN CFM CUBIC FEET PER MINUTE CHILLED WATER RETURN **CHWR** CHWS CHILLED WATER SUPPLY CLG CEILING CLEANOUT COOLING TOWER CONDENSING UNIT COLD WATER CONDENSER WATER RETURN CWS CONDENSER WATER SUPPLY DRY BULB DCC DIRECT DIGITAL CONTROL DOOR GRILLE DIGITAL INPUT DIGITAL OUTPUT DEW POINT DIRECT EXPANSION EXHAUST AIR EAT ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR **ENERGY CONTROL CENTER** EER ENERGY EFFICIENCY RATIO EXHAUST FAN EXPANSION TANK **ELEVATION EQUIPMENT** ELECTRIC WATER COOLER EWT ENTERING WATER TEMPERATURE **EXIST EXISTING** FDPR FIRE DAMPER FCU FAN COIL UNIT FLOOR DRAIN FLOOR FINS PER INCH FINS PER FOOT FPM FEET PER MINUTE GENERAL CONTRACTOR GPH GALLONS PER HOUR GALLONS PER MINUTE HUMIDITY HOSE BIBB HEATING COIL HEAT EXCHANGER HORSE POWER HOT WATER HOT WATER RETURN HWS HOT WATER SUPPLY KILOWATT LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE MECHANICAL CONTRACTOR MOTORIZED DAMPER MAXIMUM MIN MINIMUM NORMALLY CLOSED NORMALLY OPENED OUTSIDE AIR OS&Y OUTSIDE SCREW & YOKE PLUMBING CONTRACTOR PDPRESSURE DROP **PRESS** PRESSURE RETURN AIR ROOF DRAIN RAIN LEADER RTU ROOF TOP UNIT SANITARY SDPR SMOKE DAMPER SUPPLY AIR STATIC PRESSURE TCC TEMPERATURE CONTROL CONTRACTOR **TEMPERATURE** TYP TYPICAL **UNDERCUT** UNDERGROUND UNLESS OTHERWISE NOTED UON UV UNIT VENTILATOR VAC VACUUM VARIABLE AIR VOLUME VAV VOLUME DAMPER VFD VARIABLE FREQUENCY DRIVE VSD VARIABLE SPEED DRIVE VTR VENT THRU ROOF WASTE WET BULB WALL CLEANOUT

DUCTWC	PRK
₩ 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
2	(SINGLE LINE)
£===3	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
R	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
[Georgian of the control of the cont	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
① ⊕ ₩→	THERMOSTAT / TEMPERATURE SENSOR HUMIDISTAT / HUMIDITY SENSOR UNDERCUT (1" U.O.N.) DOOR GRILLE (18"X12" U.O.N.)
A 100 6"ø	AIR DEVICE TYPE AIR FLOW CFM NECK SIZE
\boxtimes	4-WAY AIR FLOW
	3-WAY AIR FLOW
	2-WAY AIR FLOW
	1-WAY AIR FLOW
	

PIPING	
—— cws ——	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
—— CH W S —	CHILLED WATER SUPPLY
— CHWR —	CHILLED WATER RETURN
—— CD——	CONDENSATE LINE
	REFRIGERANT LIQUID
—— RS ——	REFRIGERANT SUCTION
	REFRIGERANT HOT GAS
—— HWS ——	HOT WATER SUPPLY
	HOT WATER RETURN
	DOMESTIC WATER
── ▼──	GATE VALVE
─ ₩	GLOBE VALVE
$\overline{}$	CHECK VALVE
— ф—	BALL VALVE
	PLUG VALVE
——————————————————————————————————————	PRESSURE REDUCING VALVE
───	2-WAY CONTROL VALVE
──────	3-WAY MODULATING CONTROL VALVE
A -	SAFETY OR PRESSURE RELIEF VALVE
수	MANUAL AIR VENT
——[—	BUTTERFLY VALVE
	HOSE BIBB
₹ 1-	ANGLE GLOBE VALVE
————	MOTOR OPERATED GATE VALVE
	MOTOR OPERATED GLOBE VALVE
<u></u>	TEST PLUG (PRESSURE / TEMPERATURE
 Φ	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
<u></u>	CAPPED OUTLET
—— с —	RISE OR DROP IN PIPE
<u> </u>	UNION
'1'	STRAINER
· ' '	THERMOMETER
₽ ⊗	PRESSURE GAGE
¥ ————————————————————————————————————	WATER FLOW MEASURING DEVICE
	EXISTING PIPE TO BE REMOVED
_ _	EXISTING FILE TO BE REMOVED

DRAWING SYMBOLS



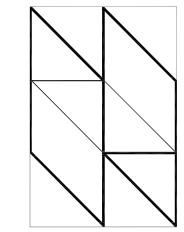
POINT OF INTERFACE BETWEEN NEW & EXISTING P.O.C.

POINT OF DEMOLITION P.O.D.

POINT OF INTERFACE BETWEEN CONTRACTORS

GENERAL NOTES

- 1. 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 CONTRACT DRAWINGS AND SPECIFICATIONS TO CALL FOR COMPLETE, FINISHED WORK, TESTED, AND READY
- 2. 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.
- 3. DUCT DIMENSIONS SHOWN ON THE DRAWINGS ARE CLEAR INSIDE AIR PASSAGE DIMENSIONS.
- 4. PROVIDE SPIN-IN FITTINGS AT ALL FLEXIBLE DUCT RUNOUTS TO DIFFUSERS WITH AIR EXTRACTOR AND DAMPER.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. ALL PIPING SHALL BE SUPPORTED WITH COMMERCIAL MANUFACTURED CLAMPS. PROVIDE ISOLATION SLEEVES TO PREVENT CONTACT OF DISSIMILAR METALS.
- 10. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS.
- 11. CONTRACTOR TO PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
- 12. 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.
- 13. 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.
- 14. MOUNT ALL SPACE THERMOSTATS AND/OR SENSORS 4 FEET ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- 15. 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.
- 16. 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.
- 17. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL AIR DEVICES LOCATED IN THE CEILING.
- 18. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT.
- 19. 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.
- 20. PROVIDE MOTORIZED DAMPERS IN ALL OUTSIDE AIR DUCTS.
- 21. PROVIDE DRAIN P-TRAPS IN THE CONDENSATE LINES AT ALL AIR HANDLING UNITS.
- 22. 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.
- 23. 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.
- 24. 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.
- 25. 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.
- 26. WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- 27. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- 28. PROVIDE BALANCING DAMPER IN EACH BRANCH CONNECTION.
- 29. ALL DUCTWORK INSTALLED ON THIS PROJECT SHALL BE OF SHEET METAL CONSTRUCTION. DUCTWORK SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH SMACNA REQUIREMENTS.
- 30. 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.
- 31. CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUTS SHEETS AT TIME OF APPLICATION.
- 32. ALL MECHANICAL WORK SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FLORIDA MECHANICAL CODE, ENERGY CODE REQUIREMENTS LOCALLY LATEST ADOPTED EDITION.
- 33. ALL EXTERIOR OPENINGS SHALL BE RODENT PROOFED.



HALL ARCHITECTS, PA

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941.751.6485 phone

STRUCTURAL ENGINEER: STIRLING & WILBUR ENGINEERING 7085 SOUTH TAMIAMI TRAIL

SARASOTA FL 34236

941.929.1552 phone

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

GENERAL NOTES:

PROCEEDING WITH THE WORK.

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WRITTEN PERMISSION OF THE ARCHITECT.

DATE:	
xx/xx/xxxx	xxxxxxx

PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST

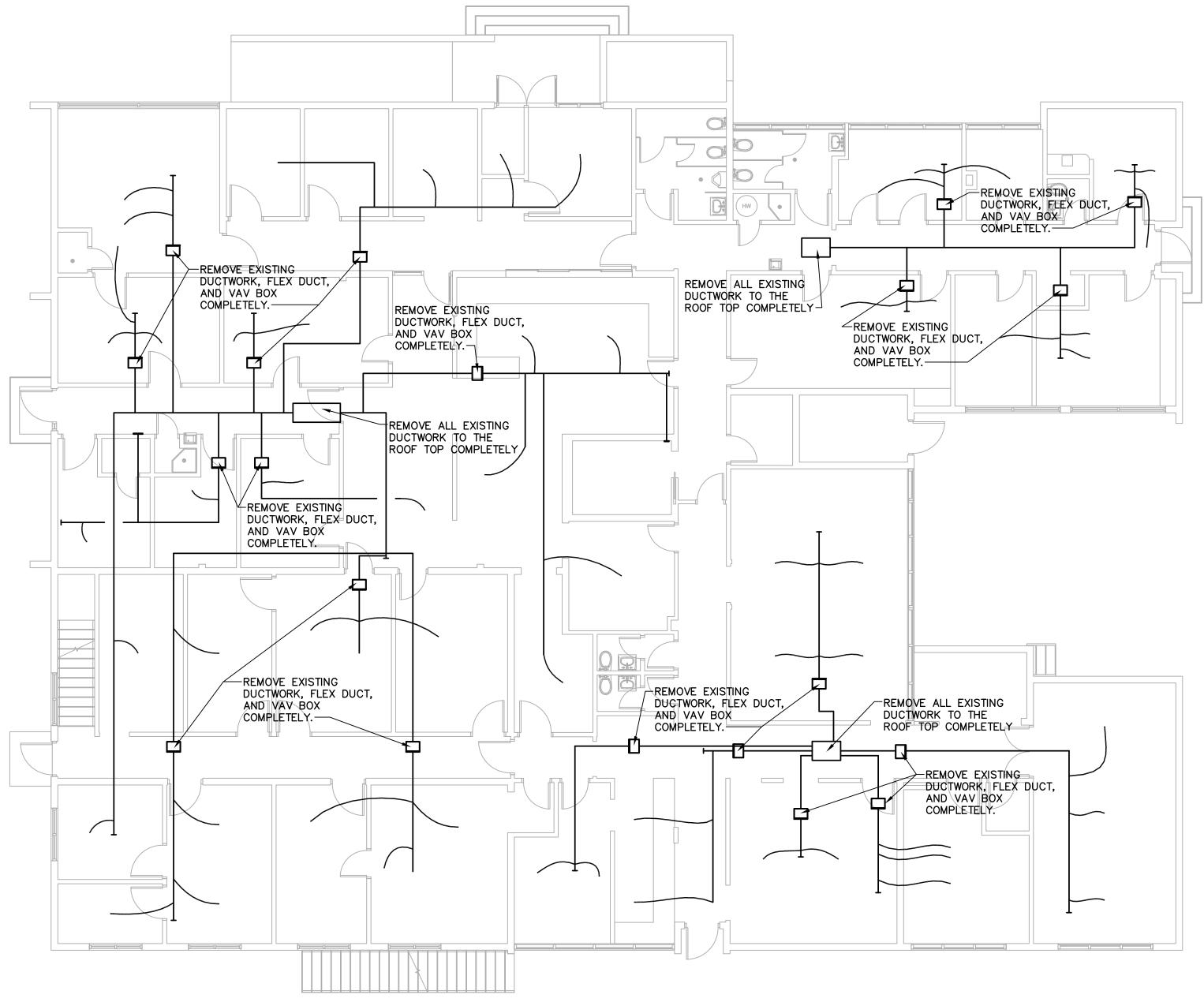
SHEET TITLE

MECHANICAL LEGEND AND **GENERAL NOTES**

SCALE: NOT TO SCALE

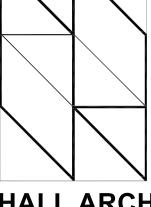
SHEET NUMBER

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.



GENERAL NOTES:

- 1 REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL SCOPE OF WORK.
- 2 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.
- (3) ITEMS IN GRAYSCALE ARE EXISTING AND TO REMAIN. FOR DUCTWORK AND DIFFUSERS THAT ARE "TO REMAIN" PRESERVE EXISTING LOCATION.



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SEAL

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

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	DATE:	
	xx/xx/xxxx	xxxxxxx
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PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

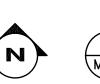
BRADENTON, FLORIDA 3

MECHANICAL DEMOLITION
MORGUE AND EMS FLOOR PLAN

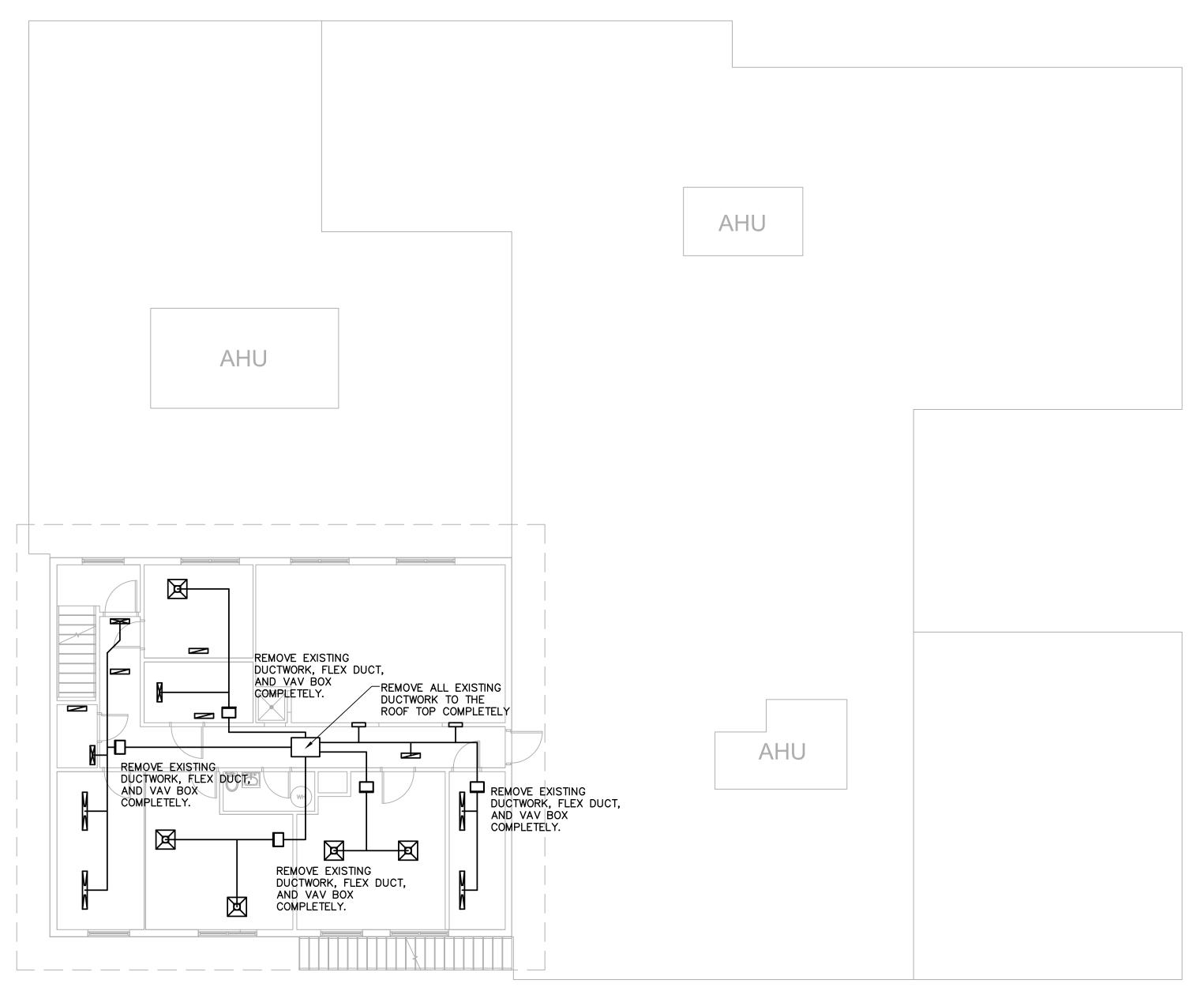
SCALE: ½"=1'-0"

SHEET NUMBER

M2.0

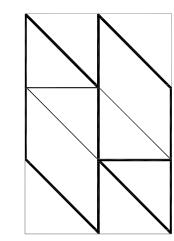


MECHANICAL DEMOLITION MORGUE AND EMS FLOOR PLAN
1/8"=1'-0"



GENERAL NOTES:

- 1) REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL SCOPE OF WORK.
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SEAL

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

PROCEEDING WITH THE WORK.

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xx/xx/xxxx	XXXXXXX

PROJECT NAME:

MANATEE COUNTY MORGUE

RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

MECHANICAL DEMOLITION EMS 2ND FLOOR PLAN

SCALE: ½"=1'-0"

SHEET NUMBER

42.2



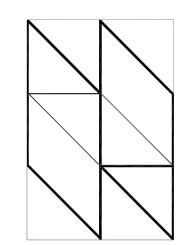
MECHANICAL DEMOLITION EMS 2ND FLOOR PLAN

1/8"=1'-0"



GENERAL NOTES:

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GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

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WRITTEN PERMISSION OF THE ARCHITECT.

	DATE:	
	xx/xx/xxxx	xxxxxx
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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



MECHANICAL ROOF DEMOLITION FLOOR PLAN

1/8"=1'-0"

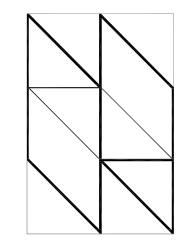


MECHANICAL PROPOSED ROOF FLOOR PLAN

1/8"=1'-0"

GENERAL NOTES:

- 1) REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL SCOPE OF WORK.
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SEAL

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

PROCEEDING WITH THE WORK.

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DATE:	
xx/xx/xxxx	xxxxxxx

PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

BRADENTON, FLORIDA

SHEET TITLE

MECHANICAL PROPOSED ROOF FLOOR PLAN

SCALE: ½"=1'-0"

SHEET NUMBER

42.5

(RI	\rightarrow						PAC	KAG	ED F	300	FTO	P HVA	C UNIT SCH	HED	ULE (I	ELEC	TRIC)													
TAG	AREA	NOMINAL	_ EV	APORATOR [DATA	REFRIGERANT				EVAPO	DRATOR	COIL DATA	4		CONDEN	SER	COMPRE	SSOR		HEATIN	NG DATA		FILTER D	DATA	ELECTF	RICAL [DATA	AAANUEA OTUBES	MODEL	WELOLIT	DEMARKS
NO.	SERVED	TONS	CFM	EXT. S.P. IN. WG.	HP	TYPE	E.D.B.	E.W.B.	L.D.B. F	L.W.B. °F	TOTAL MBH	SENSIBLE MBH	COIL FACE ROWS	FINS/ INCH	AMBIENT TEMP *F	FAN QTY	. STAG	S LRA	MBH OUTPUT	KW	STAGES	TEMP. RISE	TYPE E	FF %	VOLTS F	PHASE	HERTZ	MANUFACTUREF	MODEL NO.	WEIGHT	REMARKS
RTU-1	MORG. OFFIC	E 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 EM	S 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 BDF	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 DA	r 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:

1. UNIT SIZED AT COOLING COIL AT 95°F CONDENSING TEMP.

2. 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

3. UNIT SUPPLIED WITH HIGH CAPACITY EVAP. COIL AND MEDIUM STATIC HIGH EFFICIENCY MOTOR, AND RECEPTACLE.

4. UNIT SHALL BE ARRANGED FOR SINGLE POINT ELECTRICAL CONNECTION AND BACNET CONTACTS FOR READOUT OF UNIT TEMPERATURE AND ON/OFF.

5. COLOR OF UNIT SHALL BE AS SELECTED BY ARCHITECT. 6. UNIT MCA 49 AMPS, MOCP 50 A. DISCONNECT FLA 44A. SEER 13

7. UNIT MCA 37.1 AMPS, MOCP 40 A. SEER 14.

8. UNIT MCA 49.9 AMPS, MOCP 50 A. SEER 14.

9. UNIT MCA 30 AMPS, MOCP 30 A. SEER 13. 10. UNIT MCA 24 AMPS, MOCP 30 A. SEER 13.

RE		GRILLE,	REGIST	ER AND	DIFFUSI	ER SCHI	EDULE EX	(ISTING +	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	METALAIRE	7500-6	1,2
S-2	4 WAY	8ø	24X24	T BAR	ALUM	WHITE	140-280	OBD	METALAIRE	7500–6	1,2
S-3	4 WAY	10ø	24X24	T BAR	ALUM	WHITE	165-410	OBD	METALAIRE	7500–6	1,2
S-4	4 WAY	12ø	24X24	T BAR	ALUM	WHITE	235-700	OBD	METALAIRE	7500–6	1,2
S-5	4 WAY	6ø	24X24	SURF	ALUM	WHITE	0-155	OBD	METALAIRE	7500-1AF	1,2
S-6	4 WAY	8ø	24X24	SURF	ALUM	WHITE	140-280	OBD	METALAIRE	7500-1AF	1,2
S-7	4 WAY	10ø	24X24	SURF	ALUM	WHITE	165-410	OBD	METALAIRE	7500-1AF	1,2
S-8	4 WAY	8X4	10X6	SURF	ALUM	WHITE	0-200	OBD	METALAIRE	V-4004-1	1,2
S-9	4 WAY	10X6	12X8	SURF	ALUM	WHITE	100-300	OBD	METALAIRE	V-4004-1	1,2
S-10	4 WAY	12X8	14X10	SURF	ALUM	WHITE	150-600	OBD	METALAIRE	V-4004-1	1,2
R-1	PERF	8ø	24X24	TBAR	ALUM	WHITE	0-240	OBD	METALAIRE	7500R-6	1,2
R-2	PERF	10ø	24X24	TBAR	ALUM	WHITE	165-430	OBD	METALAIRE	7500R-6	1,2
R-3	PERF	12ø	24X24	TBAR	ALUM	WHITE	235-700	OBD	METALAIRE	7500R-6	1,2
R-4	PERF	8ø	24X24	SURF	ALUM	WHITE	0-240	OBD	METALAIRE	7500R-1AF	1,2
R-5	PERF	10ø	24X24	SURF	ALUM	WHITE	165-430	OBD	METALAIRE	7500R-1AF	1,2
R-6	PERF	12ø	24X24	SURF	ALUM	WHITE	235-700	OBD	METALAIRE	7500R-1AF	1,2
R-7	35 °	10X6	12X8	SURF	ALUM	WHITE	0-300	OBD	METALAIRE	RH-1	1,2
R-8	35°	12x8	14x10	SURF	STEEL	WHITE	150-500	OBD	METALAIRE	RH-1	1,2
R-9	35°	12X12	14X14	SURF	STEEL	WHITE	200-600	OBD	METALAIRE	RH-1	1,2
E-1	35*	10X6	12X8	SURF	STEEL	WHITE	0-300	OBD	METALAIRE	RH-1	1,2
E-2	35*	12x8	14x10	SURF	STEEL	WHITE	150-500	OBD	METALAIRE	RH-1	1,2
E-3	35*	12X12	14X14	SURF	STEEL	WHITE	200-600	OBD	METALAIRE	RH-1	1,2
E-4	35*	18X12	20X14	SURF	STEEL	WHITE	300-750	OBD	METALAIRE	RH-1	1,2
T-1	35*	12X6	14X8	SURF	STEEL	WHITE	0-350	OBD	METALAIRE	RH-1	1,2
T-2	35°	12x8	14X10	SURF	STEEL	WHITE	150-500	OBD	METALAIRE	RH-1	1,2

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	МВН	12.0
TOTAL HEATING CAPACITY	МВН	
MANUFACTURER		CARRIER
MODEL NO.		40MFC012-3

CONNECTIONS, AND DISCONNECT. WALL FRAME, FILTER, CONDENSATE PUMP

. COOLING CAPACITY RATED AT COIL ENTERING 80°F DB/67°F FWB, REFRIGERANT R410A.

3. 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, \$\frac{3}{4}\$ INCH PVC LINE TERMINATED IN FLOOR SINK IN THE JANITOR CLOSET. WEIGHT 17#, ¼"L, ½"S

	CU-		AIR (JENISER S	CHEDIII	= _ n
2	. PROVIDE AND INSTAL					OF THE EXISTING	STRUCTURE.
1.	. PROVIDE DIFFUSER AN HARD SURFACE OR T-	 		 			STRUCTURE

(CU-)	AIR COOLED CONDENSER SCHEDULE - IT UNIT																		
Tag No.	Equipment Location	Area Served	Capacity MBH	Refrigerant Type	Operating Charge LBS	E.E.R.		Compressors No. HP/KW Each	Unload Steps		Motor HP/KW RPM	Volts		cal Data Hertz	\\ \dots \dots \\ \do	Manufacturer	Model No.	Weight	Remarks
CU-1	ROOF	ΙΤ	12	R410A		15	STD	1	ONE	1	.5 FLA	208	1	60		CARRIER	40MFC012-3	71	1,2,3,4

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.

2. COORDINATE LOCATION WITH ARCHITECT. PROVIDE AND INSTALL SUPPORT FOR NEW UNIT, TIE DOWNS, WALL PIPE PENETRATION, VIBRATION ISOLATORS, CONCRETE PAD BY MC.

3. UNIT IS MATCHED TO FANCOIL IN SPACE. TIE TO UNIT AS INSTRUCTED BY MANUFACTURER TO PROVIDE FINAL PIPING ARRANGEMENT AND SIZING. 4. PROVIDE SPARE CONTACTS FOR TEMPERATURE ALARM ON UNIT FOR HIGH TEMPERATURE FOR TIE IN TO THE TEMPERATURE CONTROL SYSTEM.

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HALL	ARCI
A A 26000923	AITO

CHITECTS, PA

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GREGORY HALL, AIA AROO12900 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 SCHEDULES

SCALE: NOT TO SCALE

(R	TU	PACKAGED ROOFTOP HVAC UNIT SCHEDULE (ELECTRIC) - 100% OA, EXHAUST																															
TAG	AREA	NOMINAL	EV	APORATOR D	ATA	REFRIGERAN1	Г			EVAP	DRATOR	COIL DATA				CONDE	NSER	СОМР	RESSO)R		HEATIN	G DATA		FILTER	DATA	ELECT	TRICAL	DATA		MODEL	\\(\(\)	DENA DICO
NO.	SERVED	TONS	CFM	EXT. S.P. IN. WG.	HP	TYPE	E.D.B.	E.W.B	L.D.B.	L.W.B.	TOTAL MBH	SENSIBLE MBH	COIL FACE AREA	ROWS	FINS/ INCH	AMBIENT TEMP *F	FAN QT	Y. STA	AGES	RLA (MBH OUTPUT	KW	STAGES	TEMP. RISE	TYPE	MERV	VOLTS	PHASE	HERTZ	MANUFACTURER	MODEL NO.	WEIGHT	REMARKS
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-	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:

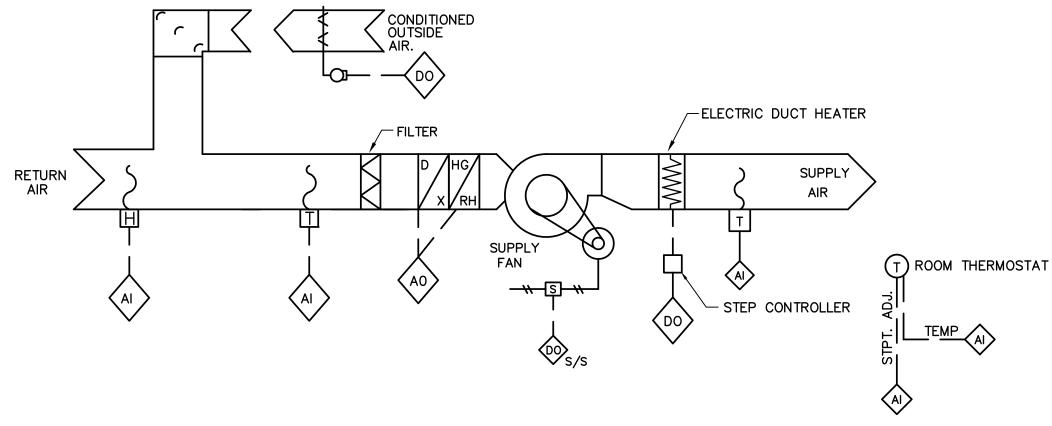
- 1. FACTORY WIRED, AND TESTED AS A SINGLE PACKAGE. MCA 54.2 AMPS, MAX FUSE SIZE 60 AMPS. FUSED DISCONNECT UNIT WIRED WITH PHASE FAILURE RELAY. UNIT EER 11.3
- 2. UNIT SHALL INCLUDE OUTSIDE AIR HOOD AND EXHAUST HOOD, WITH ONE TWO POSITION OA MOTORIZED DAMPER, AND COUNTER BALANCED EXHAUST DAMPER, AND 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) 3. UNIT SHALL INCLUDE 1 STAGE COOLING.
- 4. UNIT SHALL INCLUDE 3 STAGE UNIT MTD. HEATER WITH SAIL SWITCH, SCR CONTROLLER, AND DISCONNECT.
- 5. 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.
- 6. UNIT SHALL INCLUDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION. ON/OFF DEHUMIDIFICATION CIRCUITS ARE NOT ACCEPTABLE.
- 7. DUCT MOUNTED SMOKE DETECTOR ON SUPPLY SIDE. DETECTOR BY ELECTRICAL, INSTALLED IN SHEET METAL BY MECHANICAL.
 8. 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.
- 8. UNIT SHALL INCLUDE MANUAL RESET HIGH PRESSURE SWITCHES AND AUTO REST LOW PRESSURE SWITCHES AND STAGED CONDENSER MOTOR HEAD PRESSURE CONTROLS AND FAN SPEED CONTROL 9. UNIT SHALL INCLUDE 2 INCH, MERV 8 FILTERS.
- 10. CONTROLS: DDC UNIT CONTROLLER WITH AMBIENT DEWPOINT SENSOR, ELECTROINIC 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/UNOCCIPIED WALL SWTICH 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 OPERAITON FOR WALL MOUNTED AND ALARM CONTROLS SUPPLIED BY THE MFR.

 11. 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
- 12. COMPRESSORS SHALL HAVE A 5 YEAR WARRANTY, (PARTS AND LABOR).
- 13. 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.

 14. THE EXHAUST OUTLET SHALL BE AWAY FROM THE OUTSIDE INTAKE TO ALLOW FOR NO RE-CIRCULATION OF AIR. UNT SHALL HAVE STATIC PRESSURE CONTROL AND STATIC PRESSURE SAFETY BY THE MFR.
- 15. PROVIDE 120 V RECEPTACLE AND CIRCUIT WITH UNIT FOR SERVICE.
 16. PROVIDE DRY CONTACT CLOSURE FOR SMOKE MODE ONLY TO ALLOW FOR UNIT COMPLETE SHUT DOWN.
- 17. MANUFACTURER SHALL PROVIDE 3 DAYS TRAINING AND STARTUP SERVICE.
- 18. 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
- 19. 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)
- 20. UNIT SHALL INCLUDE 1 STAGE COOLING.
- 21. UNIT SHALL INCLUDE 3 STAGE UNIT MTD. HEATER WITH SAIL SWITCH, SCR CONTROLLER, AND DISCONNECT.
- 22. 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.
- 23. UNIT SHALL INCLUDE MODULATING HOT GAS REHEAT COIL FOR DEHUMIDIFICATION. ON/OFF DEHUMIDIFICATION CIRCUITS ARE NOT ACCEPTABLE.
- 24. 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 DIGITAL INPUT DO DIGITAL OUTPUT ANALOG INPUT ANALOG OUTPUT S/S START/STOP VARIABLE FREQUENCY DRIVE REFRIGERATION SUCTION LINE REFRIGERATION LIQUID LINE TEMPERATURE **HUMIDITY** co_2 SP STATIC PRESSURE FLOW SWITCH FS LEAVING AIR TEMPERATURE LAT STARTER WIRELESS THERMOSTAT



$\widehat{ imes}$ 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 \pm .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

• 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):
- Supply fan OFF
 Exhaust fan OFF
- 3. Tempering OFF
- 4. Outdoor air damper closed
- 5. Return damper closed6. 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.

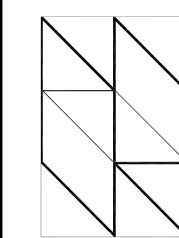
BUILDING FREEZE PROTECTION: If the supply air temperature drops below 35°F (adjustable), the DDC will de—energize the unit and activate the alarm output after a preset time delay.

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.



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30% PROGRESS SET

XXXXXXX
x/xxxx

PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

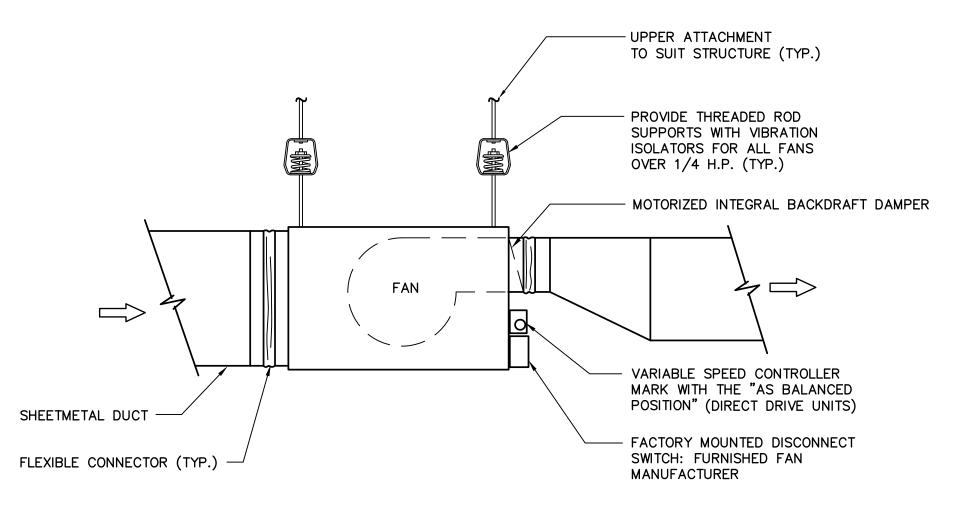
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SHEET TITLE
MECHANICAL SCHEDULES

SCALE: NOT TO SCALE

SHEET NUMBER

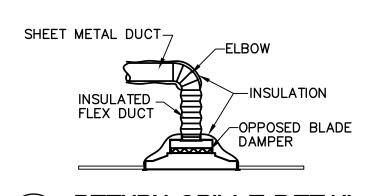
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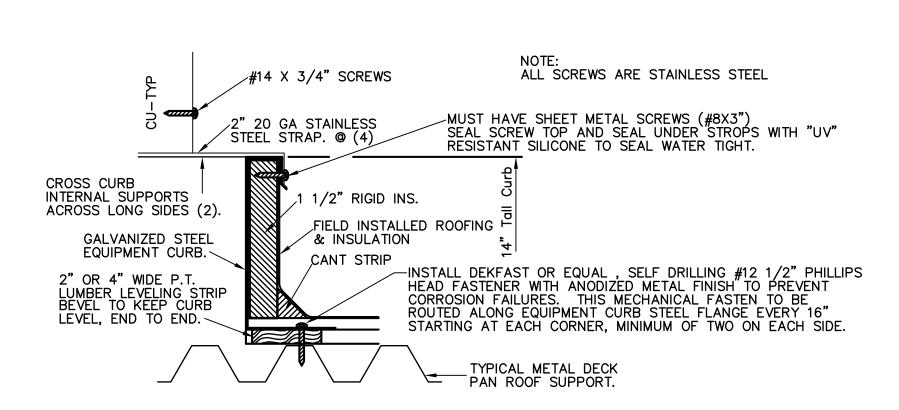
1. DISCONNECT SHALL BE PROVIDED BY DIVISION 16000/ ELECTRICAL CONTRACTOR IF NOT AVAILABLE AS FACTORY MOUNTED.

2. FLEXIBLE CONNECTORS SHALL NOT BE BUNCHED AND SHALL BE STRETCHED TAUT.

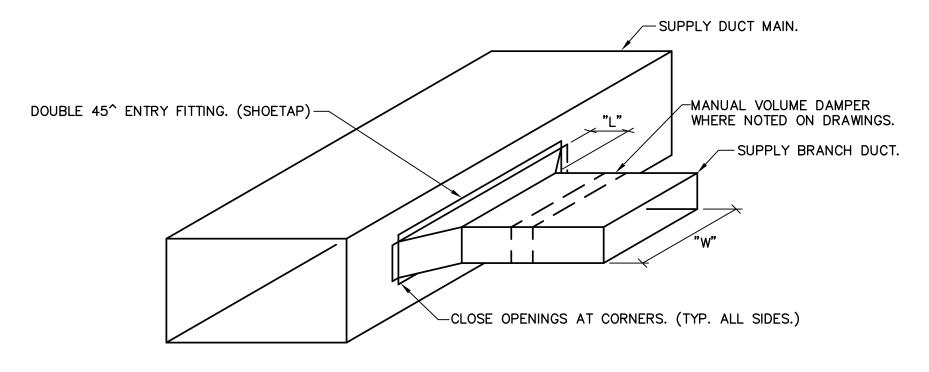




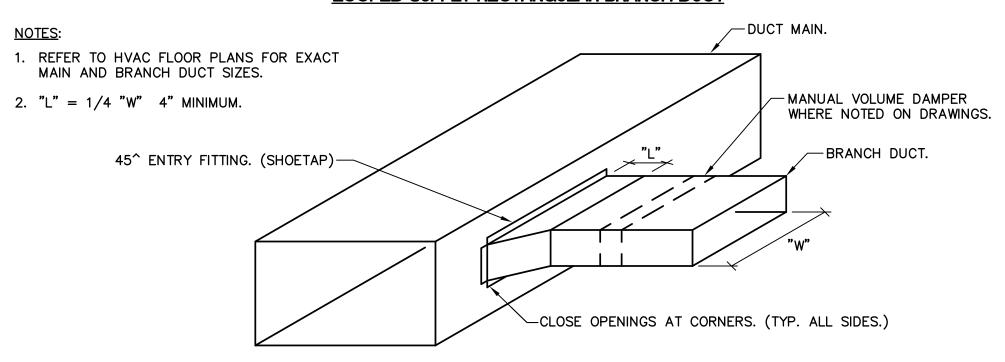






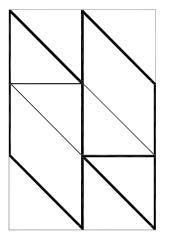


LOOPED SUPPLY RECTANGULAR BRANCH DUCT



TYPICAL RECTANGULAR BRANCH DUCT

RECTANGULAR BRANCH DUCTWORK CONNECTION DETAIL



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PROCEEDING WITH THE WORK.

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30% PROGRESS SET

ATE:	
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

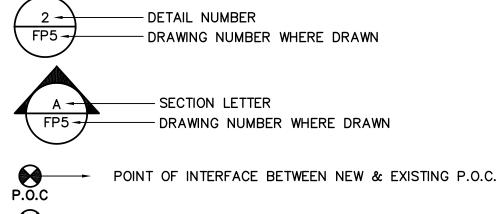
ABBREVIATIONS. LEGENDS AND GENERAL NOTES

ABBREVIATIONS AIR CONDITIONING ACCESS DOOR AFF ABOVE FINISHED FLOOR AIR HANDLING UNIT ANALOG INPUT ANALOG OUTPUT ACCESS PANEL BFF BELOW FINISHED FLOOR BRAKE HORSE POWER BRITISH THERMAL UNIT PER HOUR COOLING COIL CFM CUBIC FEET PER MINUTE CH CHILLED WATER RETURN CHWS CHWR CHILLED WATER SUPPLY CLG CEILING CO CLEANOUT COOLING TOWER CONDENSING UNIT CW COLD WATER CWR CONDENSER WATER RETURN CWS CONDENSER WATER SUPPLY DB DRY BULB DCC DIRECT DIGITAL CONTROL DOOR GRILLE DIGITAL INPUT DIGITAL OUTPUT DEW POINT DX DIRECT EXPANSION EΑ EXHAUST AIR EAT ENTERING AIR TEMPERATURE ECC ENERGY CONTROL CENTER ENERGY EFFICIENCY RATIO EXHAUST FAN EXPANSION TANK ELEVATION **EQUIPMENT** ELECTRIC WATER COOLER EWT ENTERING WATER TEMPERATURE **EXIST** EXISTING F DPR FIRE DAMPER FAN COIL UNIT FLOOR DRAIN FLOOR FIPI FINS PER INCH FPF FINS PER FOOT FEET PER MINUTE GALLONS PER HOUR GALLONS PER MINUTE HUMIDITY HOSE BIBB HEATING COIL HEAT EXCHANGER HP HORSE POWER HWHOT WATER HOT WATER RETURN HWR HWS HOT WATER SUPPLY ΚW KILOWATT LAT LEAVING AIR TEMPERATURE LWT LEAVING WATER TEMPERATURE MD MOTORIZED DAMPER MAX MAXIMUM MIN MINIMUM NORMALLY CLOSED NORMALLY OPENED OA OUTSIDE AIR OS&Y OUTSIDE SCREW & YOKE PDPRESSURE DROP **PRESS** PRESSURE RA RETURN AIR RD ROOF DRAIN RAIN LEADER ROOF TOP UNIT RTU SANITARY SEER SEASONAL ENGINEERING EFFICIENCY RATIO SMOKE DAMPER SA SUPPLY AIR STATIC PRESSURE TEMPERATURE TYPICAL TYP UC UNDERCUT UNDERGROUND UON UNLESS OTHERWISE NOTED UV UNIT VENTILATOR VAC VACUUM VAV VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VTR VENT THRU ROOF WASTE WET BULB WALL CLEANOUT

SYMBOLS VALVE - SEE SPECIFICATIONS FOR TYPE. GATE VALVE WHEN NOT SPECIFIED. GATE VALVE PRESSURE REDUCING VALVE OS&Y VALVE -NCHECK VALVE BACK WATER VALVE BACK FLOW PREVENTER UNION BUTTERFLY VALVE BALL VALVE GAS COCK STRAINER $\overline{}$ **EXPANSION JOINT** GRADE CLEANOUT IN-LINE CONCENTRIC REDUCER \longrightarrow ECENTRIC 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 $---\infty$ P-TRAP HOSE BIBB W/ VACUUM BREAKER

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 — CRP — CHEMICAL RESISTANT PIPING FIRE PROTECTION PIPING GAS PIPING — G — OXYGEN PIPING AIR PIPING — A — NITROGEN PIPING VACUUM PIPING ____ v ____ NITROUS OXIDE PIPING — NO — IN-LINE UP CONNECTION END-LINE UP —с— 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

DRAWING SYMBOLS



Y-1/8 BEND

POINT OF DEMOLITION P.O.D. POINT OF INTERFACE BETWEEN CONTRACTORS

FLOOR DRAIN

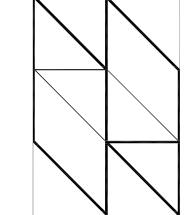
ROOF DRAIN

WALL HYDRANT W/ VACUUM BREAKER

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

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.
- 2. ALL PLUMBING WORK SHALL BE DESIGNED, INSTALLED, TESTED, AND CLEANED IN ACCORDANCE WITH FLORIDA PLUMBING CODE REQUIREMENTS.
- 3. 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.
- 4. 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.
- 6. 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.
- 7. 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.
- 8. PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING UTILITIES IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- 9. EXACT LOCATION NUMBER AND TYPE OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. VERIFY SUCH LOCATIONS BEFORE PROCEEDING ROUGH-IN.
- 10. INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- 11. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR PIPING METALS.
- 12. FIELD VERIFY ALL EXISTING PIPE SIZES PRIOR TO INSTALLATION.
- 13. NO VENT THRU ROOF SHALL TERMINATE CLOSER THAN 10 FT. TO ANY OUTSIDE AIR INTAKE, EXTERIOR WINDOW, AND DOOR.
- 14. 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 EXISITNG PIPING PRIOR TO ANY EXCAVATION.
- 15. PIPING IN CONCRETE BLOCK WALLS SHALL BE INSTALLED AS BLOCK IS BEING LAID. DO NOT
- 16. PROVIDE ALL SINKS AND LAVATORIES WITH SLIP JOINT TRAP FITTINGS FOR CLEANOUT.
- 17. 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.
- 18. 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 DISCOVÈRÉD WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- 19. 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.
- 20. WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- 21. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID
- 22. CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUTS SHEETS AT TIME OF APPLICATION.
- 23. ALL ROOF DRAINS SHALL BE COORDINATED FOR LOCATION WITH THE ARCHITECTURAL ROOF PLANS, GENERAL CONTRACTOR, AND ROOFING CONTRACTOR.



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GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

PROCEEDING WITH THE WORK.

GENERAL NOTES:

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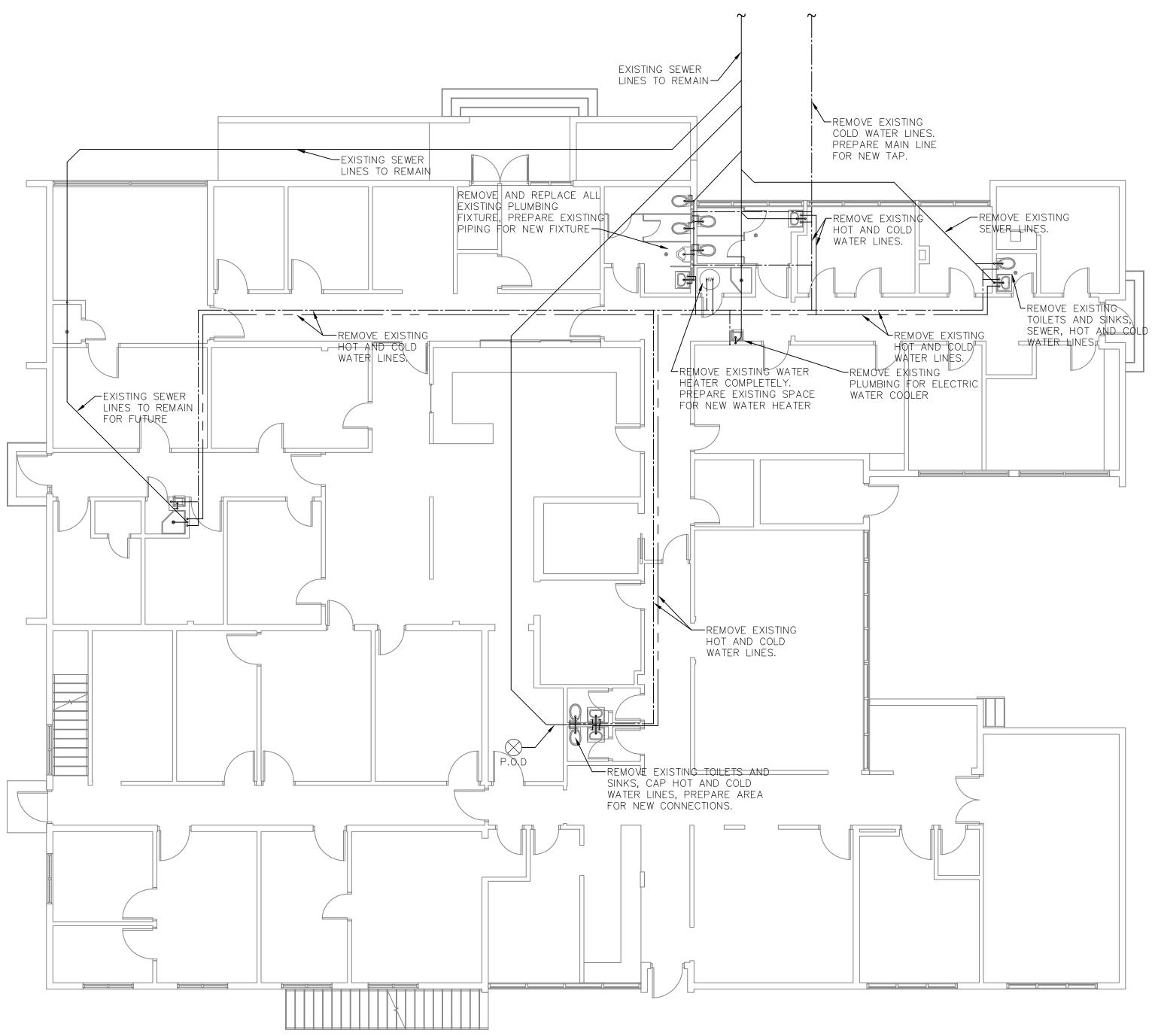
PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST

SHEET TITLE

PLUMBING LEGEND AND **GENERAL NOTES**

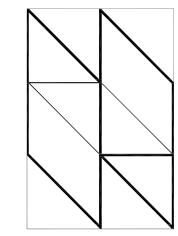
SCALE: NOT TO SCALE



PLUMBING DEMOLITION MORGUE AND EMS FLOOR PLAN



- (1) REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL SCOPE OF WORK.
- (2) 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.
- (3) ITEMS IN GRAYSCALE ARE EXISTING AND TO REMAIN. FOR DUCTWORK AND DIFFUSERS THAT ARE "TO REMAIN" PRESERVE EXISTING LOCATION.



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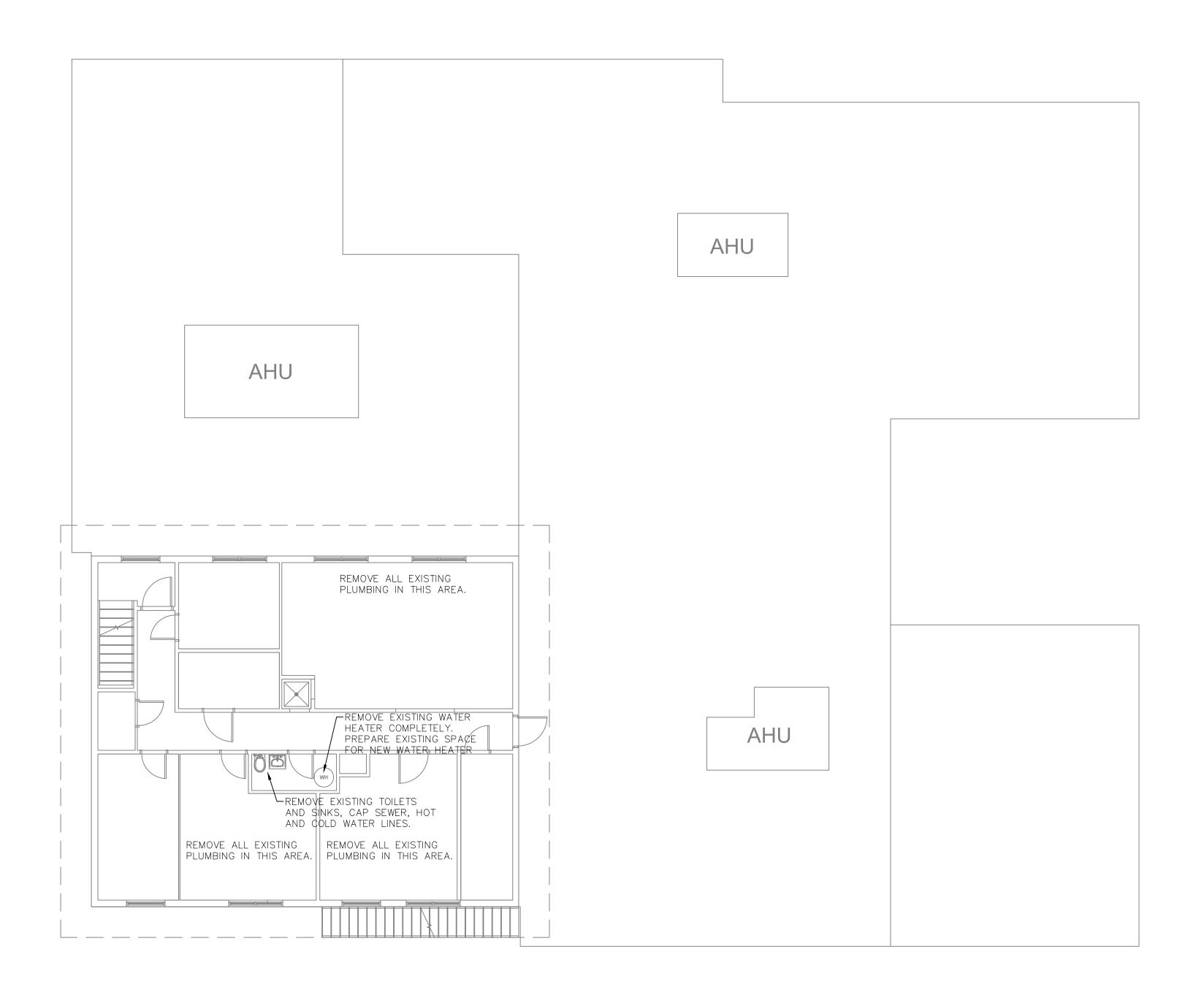
PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

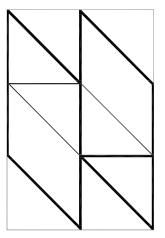
PLUMBING DEMOLITION MORGUE AND EMS FLOOR PLAN

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









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SEAL

GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

GENERAL NOTES:

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DATE:	
xx/xx/xxxx	XXXXXXX

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

DRAWING SYMBOLS

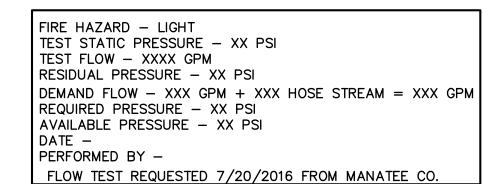
ABBREVIATIONS

ACCESS DOOR ABOVE FINISHED FLOOR ACCESS PANEL BELOW FINISHED FLOOR BOTTOM CEILING CLEANOUT COLD WATER DUCTILE IRON PIPE **ELEVATION EQUIPMENT** EXISTING **EXIST** FIRE SERVICE FLOOR DRAIN FIRE DEPARTMENT CONNECTIONS FIRE DEPARTMENT VALVE FIRE HYDRANT FIRE STANDPIPE RISER HOSE BIBB OUTSIDE SCREW & YOKE SPRINKLER TYP **TYPICAL** UNDERGROUND UNLESS OTHERWISE NOTED

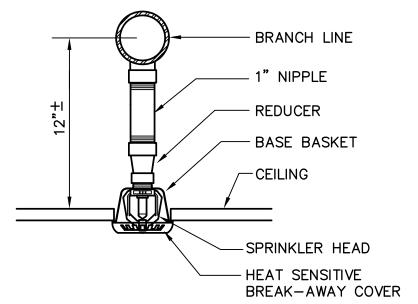
WITH TAMPER SWITCH

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 -

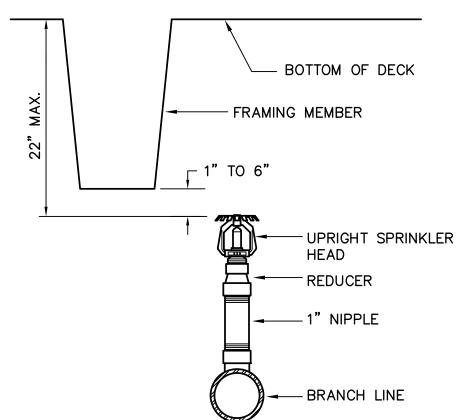
W/TS



SCREWED AND GROOVED CONNECTIONS



RECESSED PENDENT SPRINKLER HEAD



UPRIGHT SPRINKLER HEAD DETAIL

FIRE PROTECTION

──

-N-

SIDE CONNECTION

CAPPED OUTLET

ORIFICE UNION

PRESSURE GAGE

EXISTING PIPE TO BE REMOVED

GATE VALVE W/ ADAPTER TO 3/4" HOSE THREAD

UNION

STRAINER

GATE VALVE

GLOBE VALVE

CHECK VALVE

BUTTERFLY VALVE

ANGLE GLOBE VALVE

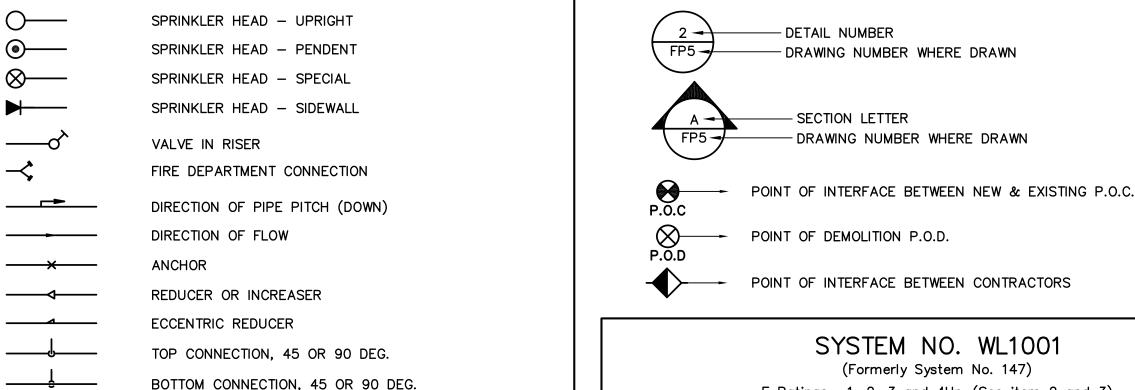
OUTSIDE SCREW & YOKE (O S & Y)

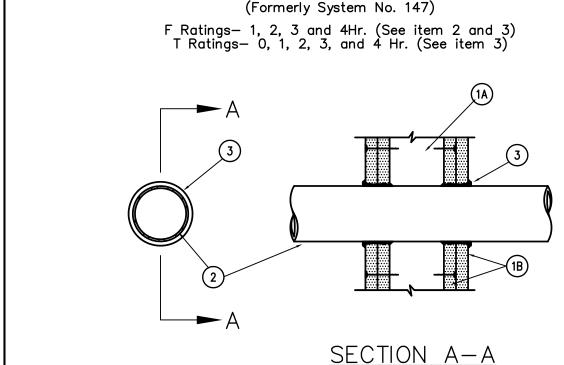
2 1/4" HOLE DIA. —►

|<----1 15/16"DIA.----

BALL VALVE

RISE OR DROP IN PIPE





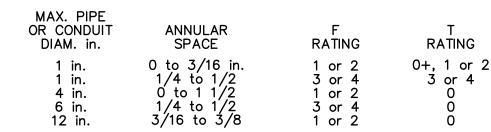
WALL ASSEMBLY — THE 1,2,3 OR 4 HOUR FIRE—RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION

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:

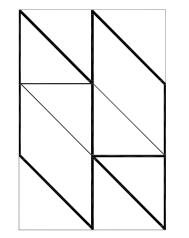


+WHEN COPPER PIPE IS USED, T RATING IS O H. MINNESOTA MINING & MANUFACTURING CO. - TYPES CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+ *BEARING THE UL CLASSIFICATION MARKING

UL PENETRATION DETAILS

GENERAL NOTES

- 1. 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.
- 2. INCLUDE ANY INCIDENTAL APPARATUS, APPLIANCES, MATERIAL LABOR AND SERVICES NECESSARY TO MAKE NEW WORK COMPLETE IN ALL RESPECTS AND FULLY READY FOR OPERATION.
- 3. MAKE SUCH OFFSETS AND DEVIATIONS FROM WORK SHOWN ON THE DRAWINGS, AS MAY BE NECESSARY TO FIT THE ACTUAL SPACE CONDITIONS.
- 4. 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.
- 5. 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.
- 6. INSTALLER SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT AND PROJECT MANAGER.
- 7. ALL FIRE DEPARTMENT CONNECTIONS SHALL HAVE AN AUTOMATIC BALL DRIP.
- 8. 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.
- 9. 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.
- 10. CONTRACTOR SHALL ARRANGE FOR, OBTAIN AND BEAR THE COST OF NECESSARY PERMITS, BONDS, AND FEES.
- 11. ALL MATERIALS SHALL BE U.L. LISTED AND BEAR THE U.L. LABEL
- 12. 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.
- 13. 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.
- 14. 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.
- 15. WHERE ELECTRICAL PANELS EXIST, PROVIDE DEFLECTORS ON ELECTRICAL EQUIPMENT TO PREVENT WETTING PANELS. SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY ABOVE ELECTRIC PANELS.
- 16. 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.
- 17. 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 REQURIED OFF OF THE 12 INCH MAIN NEAR THE STREET.
- 18. PROVIDE AND MAINTAIN TEMPORARY CONNECTIONS TO KEEP EXISTING FIRE PROTECTION SYSTEM IN SERVICE. ANY SHUT DOWNS ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- 19. 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.
- 20. 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.
- 21. WHEN CONFLICTS OCCUR IN SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- 22. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES IN ORDER TO AVOID CONFLICTS.
- 23. 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).
- 24. 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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GREGORY HALL, AIA AROO12900 ARCHITECT OF RECORD

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DATE:	
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PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

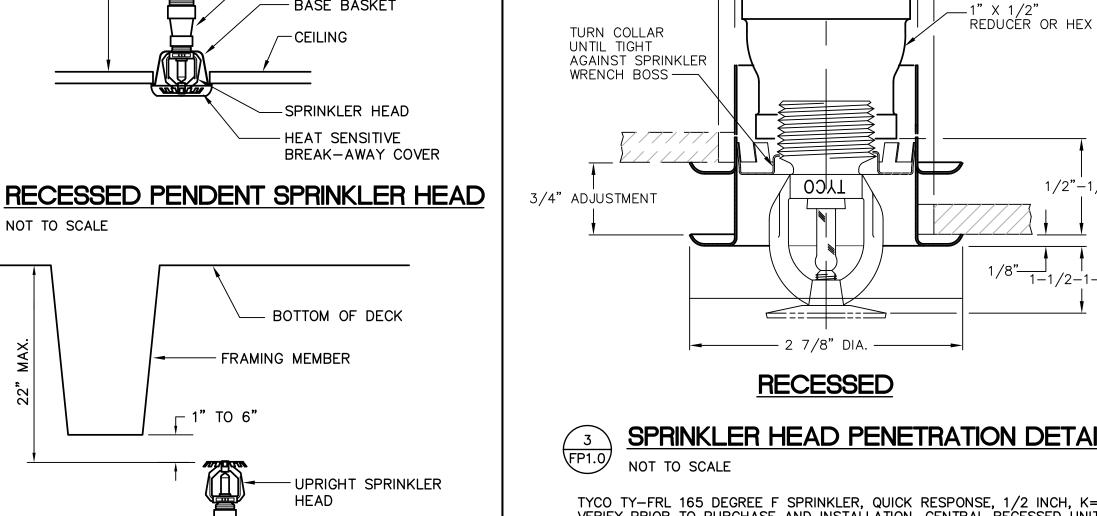
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SHEET TITLE

FIRE PROTECTION LEGEND AND GENERAL NOTES

SCALE: NOT TO SCALE

SHEET NUMBER



1/2"-1/4"

SPRINKLER HEAD PENETRATION DETAIL

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.

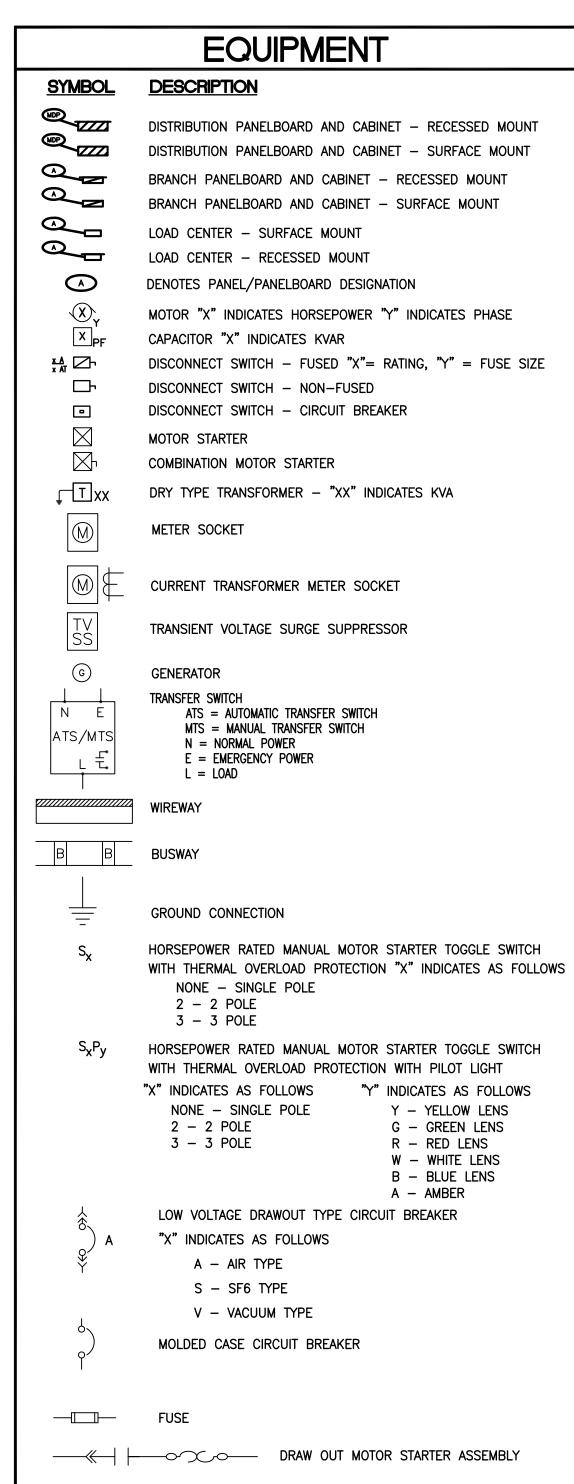
THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS; HOWEVER WHEREVER THE SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE:

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FIRE ALARM SYSTEM



	RACEWAY SYSTEM
SYMBOL	DESCRIPTION
<u> </u>	
	CONCEALED CONDUIT
E3	4" CONDUIT SLEEVE WITH BUSHINGS THRU WALL ABOVE CEILING
xx	LETTER DESIGNATION REFERS TO SYSTEM (SEE ABBREVIATIONS)
A-XX PHASE CONDUCTORS F50 GROUND SWITCH LEG NEUTRAL	S QUANTITY OF CONDUCTORS OR CABLES IN CONDUIT "F50" DENOTES THE FEEDER SIZE "A-XX" DENOTES PANEL AND CIRCUIT #
o	CONDUIT TURNED UP CONDUIT TURNED DOWN
l n´	
"	JUNCTION OR PULL BOX
+++++	CABLE TRAY
│	U/G CONDUIT TURNED UP
I .	

— · — U/G CONDUIT TURNED DOWN

	LIGHTING
SYMBOL	<u>DESCRIPTION</u>
X-2-C	X = FIXTURE TYPE, 2 = CIRCUIT NUMBER, C = SWITCH LEG
	F - FLUORESCENT
	K - INCANDESCENT
	H – H.I.D.
HOH	FLUORESCENT STRIP TYPE FIXTURE
	FLUORESCENT TYPE FIXTURE FLUORESCENT TYPE FIXTURE WITH EMERGENCY BATTERY BALLAST
Ø	CEILING MOUNT LIGHT FIXTURE
Õ	CEILING MOUNT RECESSED LIGHT FIXTURE (ROUND OR SQUARE, SEE SCHEDULE
₽	INTERIOR WALL MOUNT FIXTURE
- ☆ -	EXTERIOR WALL MOUNT FIXTURE
•	LIGHTED BOLLARD FIXTURE (ROUND OR SQUARE, SEE SCHEDULE)
全	STEPLIGHT FIXTURE
• <u></u> >	LIGHT POLE WITH ONE FIXTURE (FIXTURE LOCATION AND SPACING AS SHOWN)
	2 HEAD POLE LIGHT. LOCATION AND SPACING AS SHOWN.
	3 HEAD POLE LIGHT. LOCATION AND SPACING AS SHOWN.
$\overline{\otimes}$	EXIT LIGHT -CEILING MOUNTED ARROWS DENOTE EGRESS PATH
lacksquare	EXIT LIGHT - WALL MOUNTED ARROWS DENOTE EGRESS PATH
←	EMERGENCY WALL MOUNT W/ BATTERY UNIT
<u>\$</u>	EXIT / EMERGENCY WALL MOUNT W/ BATTERY UNIT ARROWS DENOTE EGRESS PATH
Ą	EMERGENCY WALL MOUNT REMOTE HEAD

	DEVICES
SYMBOL	DESCRIPTION
Φ_{x}	DUPLEX RECEPTACLE - NORMAL CIRCUIT "X" INDICATES AS FOLLOWS:
	NONE = 20 AMP, 125 VAC
	GFI = 20 AMP, 125VAC, GROUND FAULT INTERRUPTER TYPE
	HM = 20 AMP, 125VAC, HORIZONTAL MOUNT TYPE
	IG = 20 AMP, 125VAC, ISOLATED GROUND TYPE
	S = 20 AMP, 125VAC, TVSS PROTECTION TYPE
	WP = 20 AMP, 125VAC, WEATHERPROOF TYPE
1	DOUBLE DUPLEX RECEPTACLE
$oldsymbol{\Omega}$	DUPLEX RECEPTACLE - 1 OUTLET CONTROLLED BY SWITCH
$oldsymbol{\Omega}$	DUPLEX RECEPTACLE - 2 OUTLETS CONTROLLED BY SWITCH
⊕	DOUBLE DUPLEX RECEPTACLE - 1 OUTLET CONTROLLED BY SWITCH
9	DOUBLE DUPLEX RECEPTACLE - 2 OUTLETS CONTROLLED BY SWITCH
lacktriangle	DUPLEX RECEPTACLE - ABOVE COUNTER. 44" AFF
*	DOUBLE DUPLEX RECEPTACLE - ABOVE COUNTER. 44" AFF
Φ	SINGLE RECEPTACLE - SEE DRAWINGS AND SPECIFICATIONS.

SPECIAL RECEPTACLE - SEE DRAWINGS AND SPECIFICATIONS.

CLOCK RECEPTACLE - 120VAC

TOGGLE SWITCH - SINGLE POLE

TOGGLE SWITCH - DOUBLE POLE

SWITCH - FAN SPEED CONTROL

x = TYPE, SEE PLANS

WALL MOUNTED OCCUPANCY SENSOR

CEILING MOUNTED OCCUPANCY SENSOR

HANDICAP PUSH BUTTON DOOR SWITCH

FURNITURE CABLE MANAGEMENT POLE.

MUSHROOM HEAD RED PUSH BUTTON

TOGGLE SWITCH - 3-WAY

TOGGLE SWITCH - 4-WAY

SWITCH - DIMMER

JUNCTION BOX

HVAC THERMOSTAT

HVAC HUMIDISTAT

FURNITURE POWER POLE

S3

SINGLE RECEPTACLE - FLOOR, SEE DRAWINGS AND SPECIFICATIONS.

DUPLEX RECEPTACLE - FLOOR, SEE DRAWINGS AND SPECIFICATIONS.

TOGGLE SWITCH - a- INDICATES TYPE T: TIMER, K: KEY OPERATED

SYMBOL DESCRIPTION SMOKE DETECTOR HEAT DETECTOR PULL STATION ELEVATOR WARNING FIREFIGHTER PHONE JACK TAMPER SWITCH FLOW SWITCH F.A.A.P. **REMOTE** ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL DOOR RELEASE DEVICE - FIRE ALARM ACTIVATED (S) SPEAKER - FIRE ALARM AUTOMATIC DUCT DETECTOR ("X" DENOTES AS FOLLOWS:) NONE = PHOTO ELECTRIC TYPE

S= SUPPLY R= RETURN

EQUIPMENT SHUT DOWN RELAY

X = AIR HANDLER / ROOF TOP UNIT

FSS FIRE SUPPRESSION SYSTEM

CONDITION.

REMOTE DUCT DETECTOR INDICATOR LIGHT

	TELEVISION SYSTEM
SYMBOL	<u>DESCRIPTION</u>
TV	TELEVISION ROUGH-IN

DOOR SECURITY SYSTEM

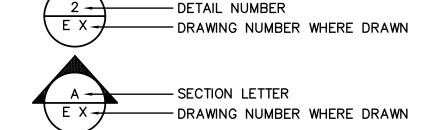
<u>SYMBOL</u>	<u>DESCRIPTION</u>
Ô	DOOR CONTACT ROUGH-IN
©	PROXIMITY CARD READER ROUGH-IN
£	ELECTRO-MAGNETIC DOOR LOCK
更	DURESS / PANIC BUTTON

CON	MUNICATION SYSTEMS
SYMBOL	DESCRIPTION
I	WALL MOUNTED VOICE OUTLET
\bowtie	WALL MOUNTED DATA OUTLET
\triangleleft	WALL MOUNTED COMBINATION VOICE / DATA OUTLET
	FLOOR MOUNTED VOICE OUTLET.
\bigcirc_{F}	FLOOR MOUNTED DATA OUTLET.
	FLOOR MOUNTED COMBINATION VOICE / DATA OUTLET.
TTC	TELEPHONE CABINET
CC	COMMUNICATIONS CABINET

PAGING / AUDIO SYSTEM

TAGINA / ADDIO OTOTEN					
SYMBOL	<u>DESCRIPTION</u>				
S ₁	LOUDSPEAKER — CEILING MOUNTED CONTROLLED BY VOLUME CONTROL "1"				
$-\overline{V}_1$	VOLUME CONTROL - CONTROLS SPEAKERS "1"				
\bigcirc	PAGING ROUGH-IN				
—(A)	AUDIO JACK ROUGH-IN				
\overline{M}	MICROPHONE ROUGH-IN				
—(P)	PROJECTOR ROUGH-IN				

DRAWING SYMBOLS



1) REFER TO LIKE NUMBER NOTES.

1 REFER TO LIKE NUMBER NOTES.

GENERAL NOTES (APPLY TO ALL DRAWINGS):

- 1. THE WORK INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT AND DEVICES FOR A COMPLETE SYSTEM IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION FOR THE OWNER'S USE. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS. INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND CONFORM TO THE NEC (NFPA 70 & 72) AND ALL APPLICABLE CODES, AND BE COMPLETED BY A QUALIFIED, EXPERIENCED, LICENSED ELECTRICAL CONTRACTOR.
- 2. THE ENGINEER HAS MADE AN EFFORT TO COORDINATE WORK WITH OTHER TRADES AND IDENTIFY ANY AND ALL CONFLICTS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FIELD WORK BETWEEN TRADES AND TO IDENTIFY FIELD CONDITIONS PRIOR TO INSTALLATION AND REPORT ANY CONFLICTS TO THE ENGINEER.
- 3. FOR BIDDING PURPOSES, WHEN A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE ITEMS OF GREATER QUANTITY AND/OR COST SHALL BE PROVIDED. ANY SUCH CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- 4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY OTHER TRADES PRIOR TO INSTALLATION. COORDINATE ROUGH—IN INSTALLATION WITH EQUIPMENT DETAILS.
- 5. ALL OPENINGS IN FIRE AND SMOKE PARTITIONS SHALL BE SEALED AS REQUIRED BY THE NEC/ FLORIDA BUILDING CODE. PROVIDE UL LISTED COMPOUND TO MATCH PARTITION RATING.
- 6. DO NOT SCALE DRAWINGS. VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION FOR EXACT DEVICE / EQUIPMENT LOCATION.
- 7. DEMOLITION WORK: PROVIDE DEMOLITION AND REMOVAL WORK AS INDICATED OR NEEDED. EQUIPMENT THAT IS TO BE REMOVED INCLUDES ALL ASSOCIATED WIRING, BOXES AND CONDUIT BACK TO SOURCE. CLOSE ALL UNUSED OPENINGS IN JUNCTION BOXES THAT REMAIN WITH SUITABLE PLUG OR COVER. WHEN REMOVING OR RELOCATING LIGHT FIXTURES OR OTHER DEVICES, FIELD VERIFY REMAINING DEVICES IN THE SAME CIRCUIT AND RECONNECT FOR CONTINUED SERVICE. EXISTING ELECTRICAL WORK INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REROUTED TO SUIT FINAL INSTALLATION. CUTTING AND PATCHING REQUIRED SHALL BE DONE TO RESTORE AREAS TO ORIGINAL
- 8. CONTRACTOR SHALL PROVIDE TO LOCAL AHJ OR PERMITTING AGENCY A COPY OF ALL MAJOR EQUIPMENT CUT SHEETS AT TIME OF APPLICATION IF REQUESTED.
- 9. LIGHT POLES, AND BASE DESIGNS ARE TO BE COMPLETED BY THE LIGHTING MANUFACTURER AND ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SIGNED AND SEALED LIGHT POLE AND BASE DRAWINGS MEETING THE FBC WIND LOAD CRITERIA CH 16.

```
ABBREVIATIONS
         AIR CONDITIONING OR ALTERNATING CURRENT
         ACCESS
         AMPERE FRAME
         ABOVE FINISHED FLOOR
         ABOVE FINISHED GRADE
         AUTHORITY HAVING JURISDICTION
         AIR HANDLER UNIT
ARCH
         ARCHITECT
          AMPERE TRIP
         AUTOMATIC TEMPERATURE CONTROL
ATS
         AUTOMATIC TRANSFER SWITCH
         AMERICAN WIRE GAUGE
AWG
         CONDUIT
         CATEGORY
         CIRCUIT BREAKER
         CHILLER
         CIRCUIT
         CENTER LINE
         CURRENT-LIMITING FUSE
         CEILING MOUNTED
         CONTROL
         DRAWING(S)
         ELECTRICAL CONTRACTOR
         EXHAUST FAN
         EMERGENCY
         ENERGY MANAGEMENT SYSTEM
         ELECTRICAL METALLIC TUBING
         EMERGENCY POWER OFF
         ELECTRIC WATER COOLER
         ELECTRIC WATER HEATER
         EXISTING TO REMAIN
         FIRE ALARM
         FIRE ALARM CONTROL PANEL
         FIRE ALARM COMMAND CENTER
         FIRE ALARM TERMINAL CABINET
         FURNISHED BY MECHANICAL CONTRACTOR
         FIBER OPTIC
         FIBER OPTIC TERMINAL CABINET
         FIRE SUPPRESSION SYSTEM
         FURNISHED WITH EQUIPMENT
         GROUND FAULT INTERRUPTER
         GROUND
         GALVANIZED RIGID STEEL CONDUIT
         HAND-OFF-AUTO
         HEATING/AIR CONDITIONING-RATED
         HIGH INTENSITY DISCHARGE
         HIGH POWER FACTOR
         HIGH PRESSURE SODIUM
          HORSEPOWER
         ISOLATED GROUND
         INTERMEDIATE METALLIC CONDUIT
         JUNCTION BOX
         KILO AMPERE INTERRUPTING CAPACITY
KCMIL
         THOUSAND CIRCULAR MILS
KVA
         KILOVOLT AMPERE
         KILOWATT
KW
         LIGHTING CONTACTOR
         MECHANICAL CONTRACTOR
         MOTOR CONTROL CENTER
         MOTOR GENERATOR
MDP
         MAIN DISTRIBUTION PANEL
         METAL HALIDE
МН
MOD
         MOTOR OPERATED DAMPER OR DOOR
MTD
         MOUNTED
         NORMALLY CLOSED
         NATIONAL ELECTRICAL CODE
NEC
NEMA
         NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
         NON-FUSED
         NATIONAL FIRE PROTECTION ASSOCIATION
NFPA
         NOT IN CONTRACT
         NIGHT LIGHT
         NORMALLY OPEN
NTS
         NOT TO SCALE
         OVER CURRENT PROTECTIVE DEVICE
         PHASE
         PUSHBUTTON
         PHOTOELECTRIC CONTROLLER
         PLUMBING CONTRACTOR
         POLYVINYL CHLORIDE CONDUIT
         ROOF TOP UNIT
SCH
         SCHEDULE
SEC
         SECURITY
```

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SPD

SWGR

TEL,T

TBB

TVSS

UL,U.L.

UPS

U.O.N.

VAV

VSD

SURGE PROTECTION DEVICE

TELEPHONE BACKBOARD

UNDERWRITERS LABORATORIES

UNLESS OTHERWISE NOTED

VARIABLE FREQUENCY DRIVE

VARIABLE AIR VOLUME

VARIABLE SPEED DRIVE

WEATHER PROOF

UNINTERRUPTIBLE POWER SUPPLY

TRANSIENT VOLTAGE SURGE SUPPRESSOR

SWITCH

SWITCHGEAR

TIME CLOCK

TRANSFER TYPICAL

TRANSFORMER

UNDERGROUND

UNIT HEATER

VAPORTIGHT

WATT

TELEPHONE

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PROJECT NAME:

MANATEE COUNTY MORGUE

RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

ELECTRICAL SYMBOLS AND GENERAL NOTES

SCALE: NOT TO SCALE

SHEET NUMBER

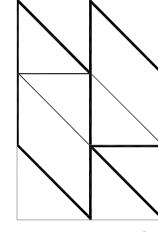
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ELECTRICAL LIGHTING DEMOLITION MORGUE AND EMS 1ST FLOOR PLAN

1/8"=1'-0"



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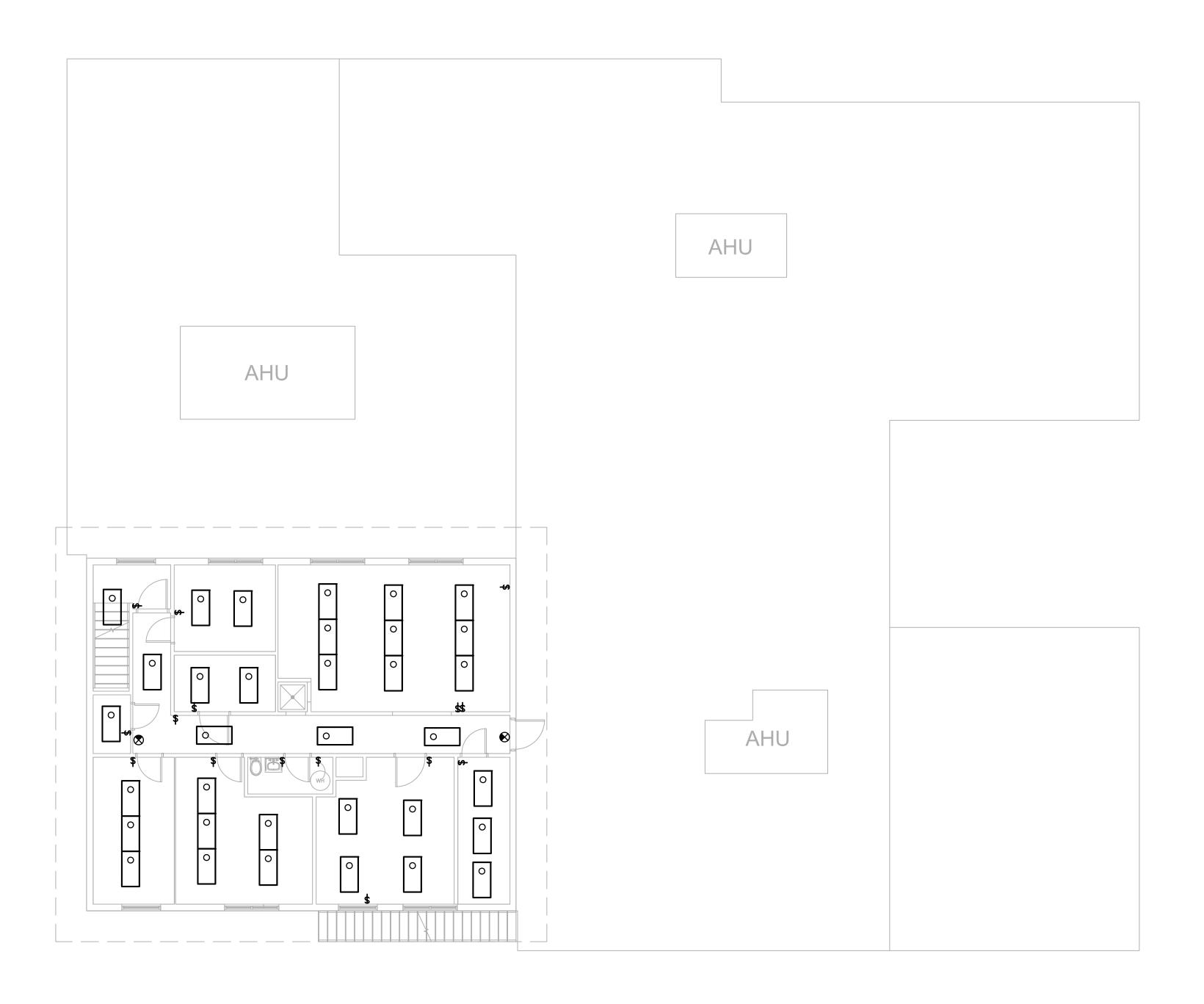
PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

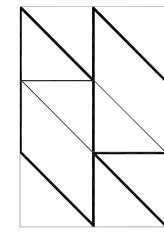
ELECTRICAL LIGHTING DEMOLITION MORGUE AND EMS IST FLOOR PLAN

SCALE: /₈"=1'-0"





E3.2 ELECTRICAL LIGHTING DEMOLITION EMS 2ND FLOOR PLAN 1/8"=1'-0"



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xx/xx/xxxx	xxxxxxx
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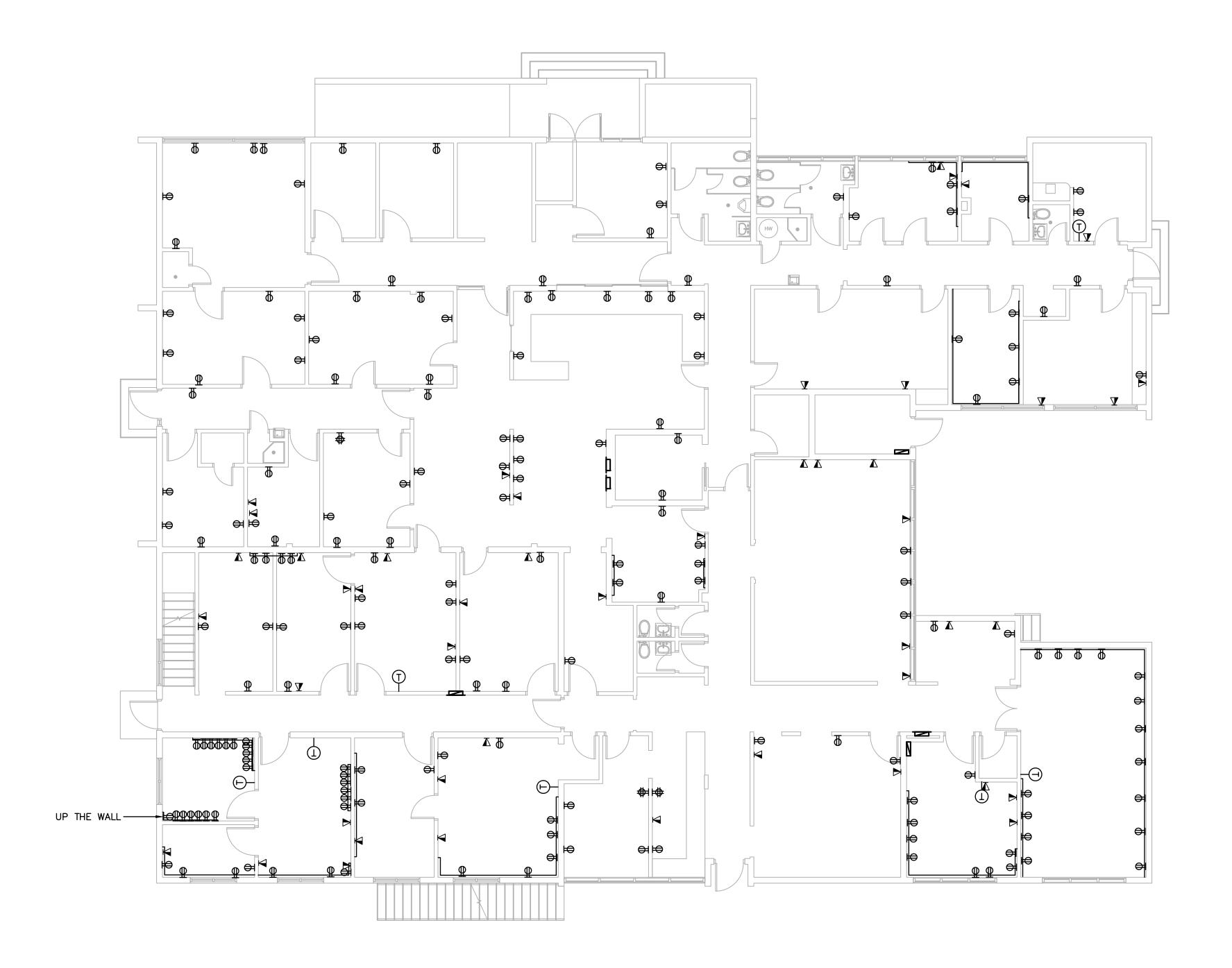
PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

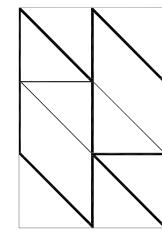
ELECTRICAL LIGHTING DEMOLITION EMS 2ND FLOOR PLAN

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





 $\underbrace{\frac{1}{E4.0}}_{1/8"=1"-0"} \underbrace{ \begin{array}{c} \textbf{ELECTRICAL POWER DEMOLITION MORGUE AND EMS 1ST FLOOR PLAN} \\ \end{array} }_{1/8"=1"-0"}$



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STIRLING & WILBUR ENGINEER:

7085 SOUTH TAMIAMI TRAIL SARASOTA FL 34236

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SE

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DATE:	
xx/xx/xxxx	xxxxxxx
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PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

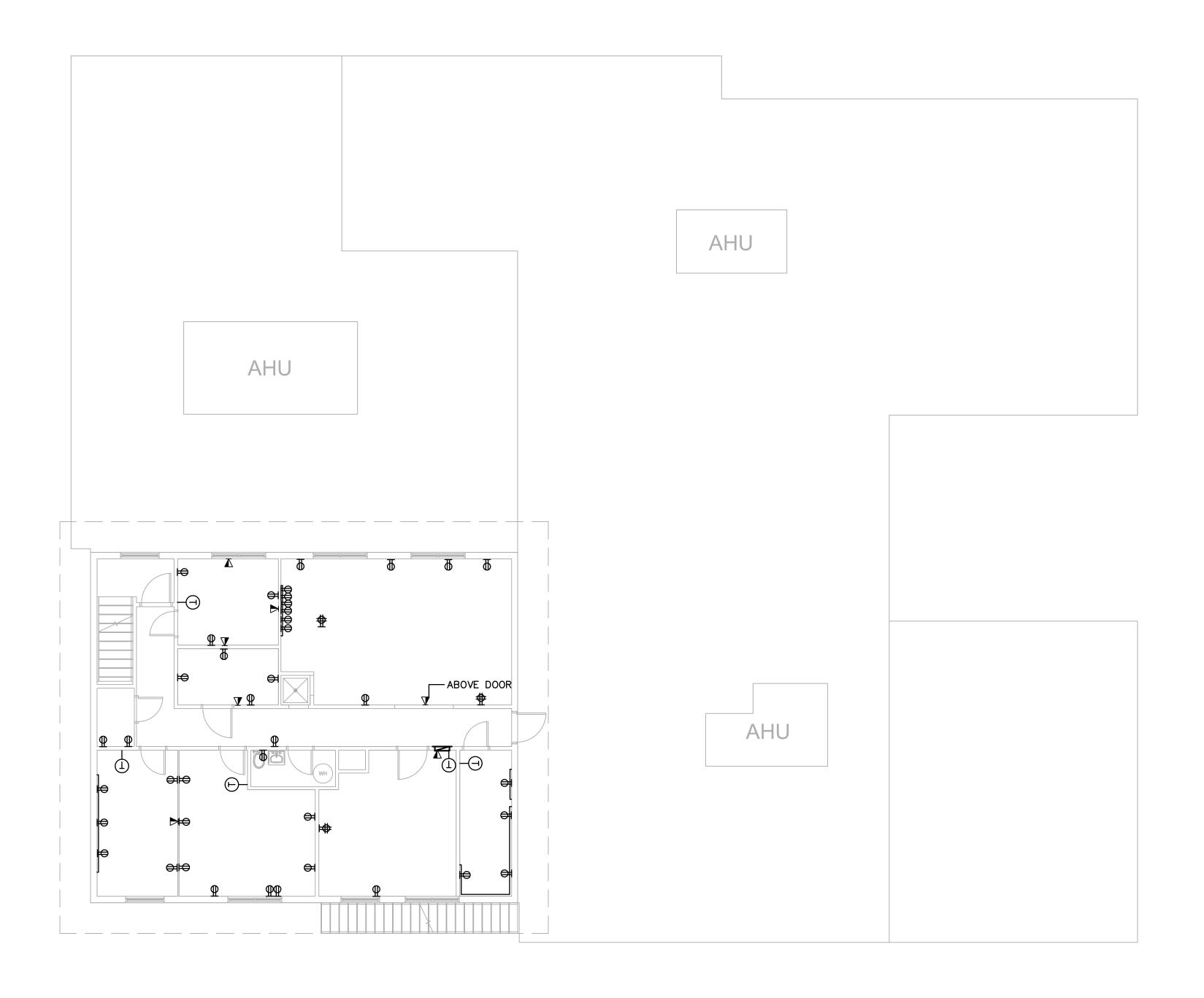
SHEET TITLE

ELECTRICAL POWER DEMOLITION MORGUE AND EMS 1ST FLOOR

SCALE: ½"=1'-0"

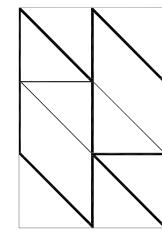
SHEET NUMBER

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xx/xx/xxxx	XXXXXX

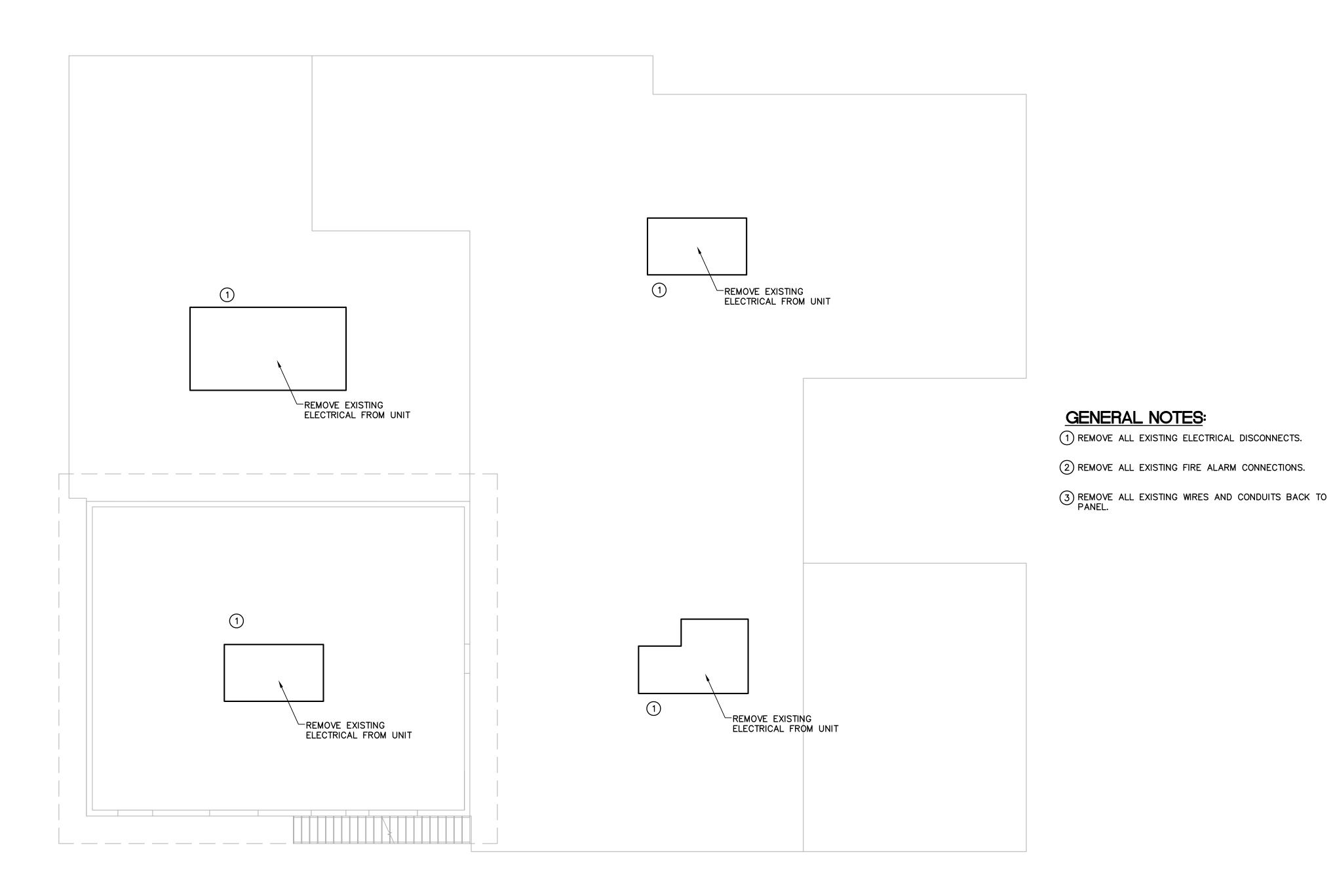
PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

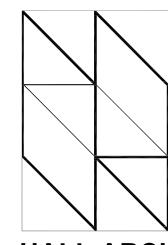
ELECTRICAL POWER DEMOLITION EMS 2ND FLOOR PLAN

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









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xx/xx/xxxx	XXXXXXX
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PROJECT NAME: MANATEE COUNTY MORGUE RELOCATION

202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

ELECTRICAL POWER DEMOLITION ROOF PLAN

SCALE: /8"=1'-0"

FEEDER AND BRANCH CIRCUIT SCHEDULE									
FEEDER/BRANCH		ONDUCTOR N,&THWN-2	SETS OF	ſ	C) QUANTITY OF	ONDUIT SIZE F CONDUIT IS]
DESIGNATION	PHASE & NEUTRAL	EQUIPMENT GROUND	CONDUCTORS		2P, 1N, 1G, 3P, 1G	3P, 1N, 1G	3P, 2N, 1G		3P, 1N, 20
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"

NOTES:

1. DO NOT COMBINE NEUTRAL CONDUCTORS FOR ALL CIRCUITS. USE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL CIRCUITS.

PROVIDE CONCETE PAD AND

VOLTAGE DROP FOR 1φ, 20A BRANCH CIRCUITS

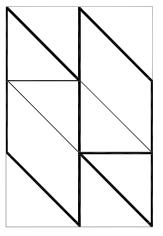
	DISTANCE ALLOWED				
FEEDER SIZE TO USE	120V	208V			
F20	0 - 45 FEET	0 - 79 FEET			
F30	45 - 72 FEET	79 — 126 FEET			
F50	72 – 115 FEET	126 - 201 FEET			
F60	115 - 183 FEET	201 - 318 FEET			
F80	183 – 292 FEET	318 - 506 FEET			
F100	292 – 367 FEET	506 - 637 FEET			
F110	367 - 464 FEET	637 - 804 FEET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

NOTES:

- 1. 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.
- 2. 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.
- 3. SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3 PERCENT PER NEC 210.19A NOTE 4.

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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DATE:	
xx/xx/xxxx	XXXXXXX
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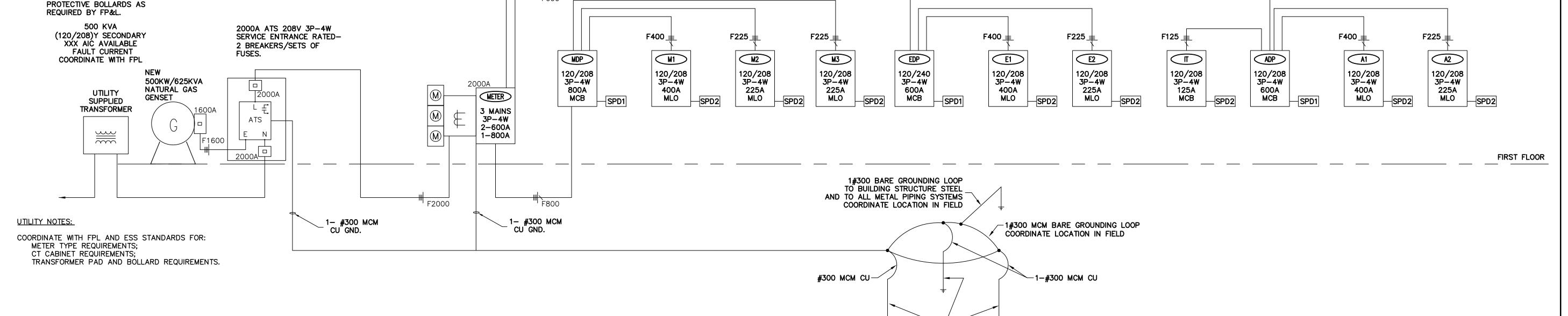
202 6TH AVENUE EAST BRADENTON, FLORIDA 34208

SHEET TITLE

ELECTRICAL ONE LINE AND PANEL

SCALE: NOT TO SCALE

SHEET NUMBER



1 E5.0

₩ F600

(3) GROUND RODS SPACED ÈVENLY AS PER NEC.

ONE-LINE RISER DIAGRAM

GENERAL NOTES:

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.

SPD1 - SERVICE ENTRANCE RATED SURGE PROTECTION DEVICE TO BE