FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

CONSTRUCTION DOCUMENTS

SEPTEMBER 13, 2024





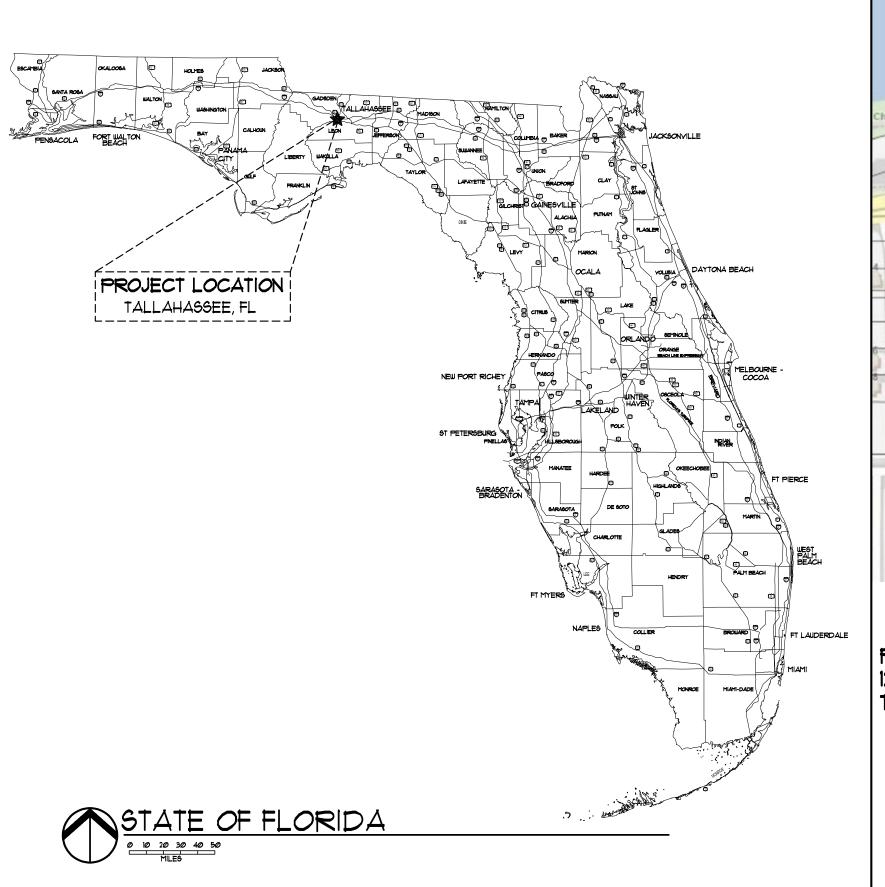
MECHANICAL / PLUMBING / ELEC

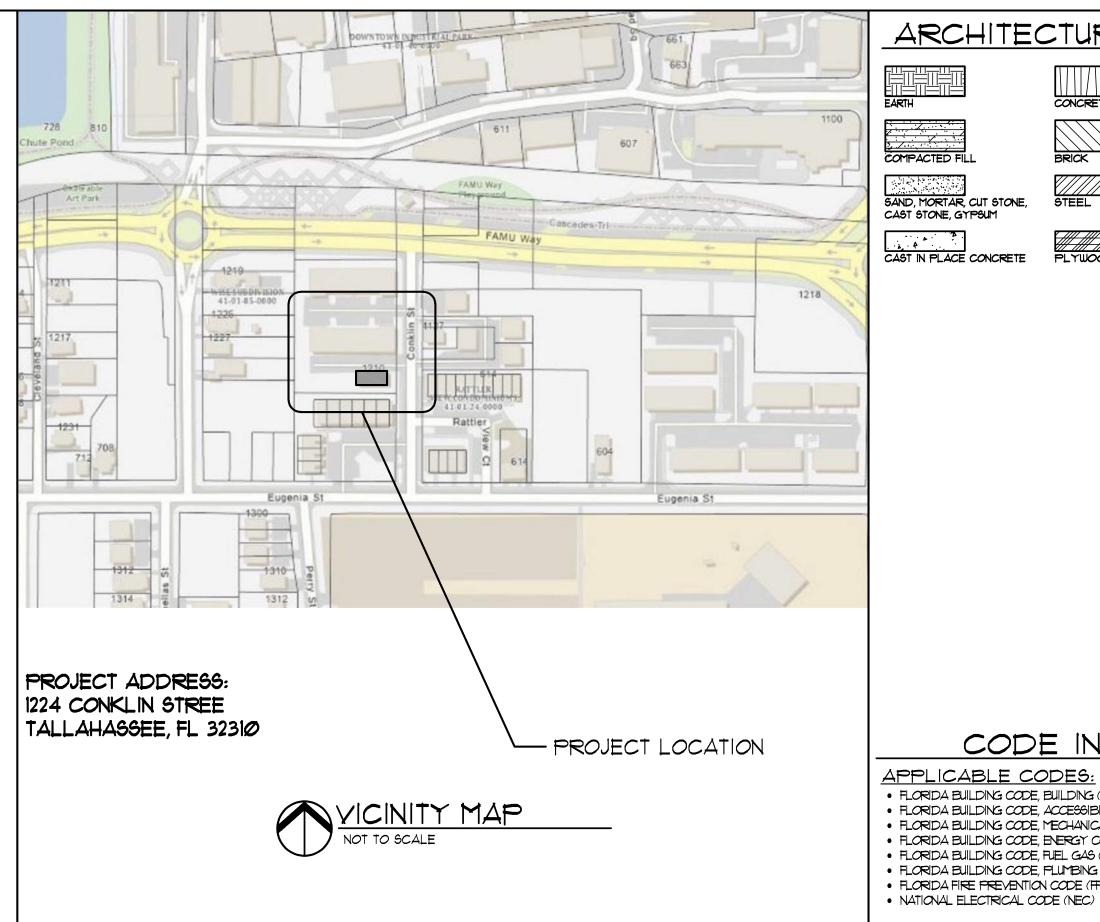
FSM ENGINEERING 150 John Knox Rd Tallahassee, FL 32303 Phone: 850.222.5683



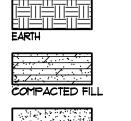
2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 PHONE: (850) 878-7891

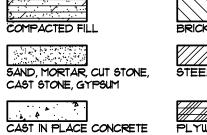
Commission Number: 24852

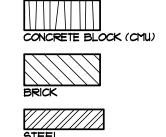




ARCHITECTURAL MATERIALS





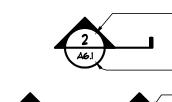






ROUGH WOOD / BLOCKING

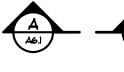
ARCHITECTURAL SYMBOLS



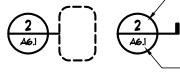


-DETAIL NUMBER





BUILDING SECTION -SHEET SECTION IS DRAWN ON



DETAIL / ENLARGED YIEW -SHEET DETAIL IS DRAWN ON

(101)

INTERIOR ELEVATION -ELEY NUMBER/SHEET ELEVATION IS DRAWN ON

COLUMN GRID MARK LETTER OR NUMBER

O'-O" AFF ELEV DESCRIPTION ELEVATION MARK

DOOR MARK BLDG No.-DOOR No.

(-) OR (-) WINDOW MARK <u>-</u> LOUVER MARK

(-) EQUIPMENT MARK \bigcirc TOILET ACCESSORY MARK

CONSTRUCTION KEYNOTE NT

CODE INFORMATION

EDITION: APPLICABLE CODES: • FLORIDA BUILDING CODE, BUILDING (FBC-B) 2*0*23 • FLORIDA BUILDING CODE, ACCESSIBILITY (FBC-A) 2*0*23

• FLORIDA BUILDING CODE, MECHANICAL (FBC-M) · FLORIDA BUILDING CODE, ENERGY CONSERVATION FLORIDA BUILDING CODE, FUEL GAS (FBC-FG) • FLORIDA BUILDING CODE, FLUMBING (FBC-P) FLORIDA FIRE PREVENTION CODE (FFPC)

INDEX OF DRAWINGS GENERAL INFORMATION

INDEX DRAWING INDEX, SYMBOLS LEGEND & ABBREVIATIONS (THIS SHEET)

ARCHITECTURAL

FLOOR PLANS EXISTING EXTERIOR ELEVATIONS

A4.2 EXTERIOR ELEVATIONS & WALL SECTIONS A9.1 DOOR SCHEDULE FRAME ELEVATIONS AND DETAILS

MECHANICAL

HVAC NOTES & LEGENDS FLOOR PLAN - DEMOLITION - HVAC FLOOR PLAN - RENOVATION - HVAC

HYAC DETAILS

M5.2 HVAC DETAILS M6.1 HYAC SCHEDULES

PLUMBING

PLUMBING NOTES & LEGEND FLOOR PLAN - PLUMBING - DEMOLITION FLOOR PLAN - PLUMBING - RENOVATION P5.1 PLUMBING SCHEDULE & DETAILS

ELECTRICAL

ELECTRICAL GENERAL & DEMOLITION NOTES

EØ2 ELECTRICAL SYMBOLS

FLOOR PLAN - DEMO - ELECTRICAL FLOOR PLAN -RENO - ELECTRICAL POWER FLOOR PLAN - RENO -ELECTRICAL LIGHTING

FLOOR PLAN - RENO - ELECTRICAL TELECOM ENLARGED IT ROOM FLOOR PLAN - RENO

E5.1 POWER DETAILS E5.2 LIGHTING DETAILS

E5.3 FIRE ALARM DETAILS ELECTRICAL SCHEDULES E6.1 ELECTRICAL SCHEDULES E6.2 E7.1 SINGLE - LINE DIAGRAM



NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			Ø4/22/24
309	6 CONSTRUCTION DOCUMENTS			06/28/24
CO	NSTRUCTION DOCUMENTS			<i>0</i> 9/13/24



2551 BLAIRSTONE PINES DR TALLAHASSEE, FL 323Ø1

PHONE: (850) 878-7891 ARCHITECTS Commission Number: 24852

FLORIDA A&M UNIVERSITY

DRAWING INDEX - SYMBOLS LEGEND AND ABBREVIATIONS



STANDARD ABBREVIATIONS

AB - Anchor Bolt ABV - Above A/C - Air Conditioning ACI - American Concrete Institute ACST - Acoustic ACT - Actual ADD - Addendum ADJ - Adjacent ADJT - Adjustable

AFF - Above Finish Floor ALT - Alternate ALUM - Aluminum ANC - Anchor ANSI - American National Stds. Inst.

APPROX- Approximate ARCH - Architectural ASPH - Asphalt ASTM - American Society of Tstq. & DEG - Degrees

AWS - American Welding Society

BB - Beam Bolster

B&B - Board & Batten BC - Bottom Chord BD - Board BEL - Below BIDS - Baggage Information Display System BIT - Bituminus BLDG - Building

BLK - Block BLKG - Blocking BLT - Bolt BM - Beam B.M. - Bench Mark BOT - Bottom BR - Brace BRDG - Bridging BRG - Bearing BRK - Brick BRKT - Bracket BSMT - Basement

BS - Both Sides

BTWN - Between

BVL - Bevel

CL - Centerline

CLR - Clearence, Clear

CMU - Concrete Masonary Unit

CLO - Closet

CLS - Closure

CNTR - Counter

BUR - Built-up Roof

BW - Both Ways C - Channel CAD - Cadmium CAP - Capacitu CARP - Carpet CAT - Catalog CB - Catch Basin C/C - Center to Center CLG - Ceiling CEM - Cement CF - Cubic Feet CFM - Cubic Feet Per Minute CHAM - Chamfer Cl - Cast Iron CIR - Circle CIP - Cast-in-place CJ - Control Joint CK - Caulk C/L - Chain Link (fence)

COL - Column COMM - Communications COMP - Compressor, Composite CONC - Concrete

CONN - Connection, Connect CONSTR - Construction CONT - Continuous CONTR - Contractor CORR - Corrugated, Corridor CR - Cold Rolled

CS - Countersink CT - Ceramic Tile CTR - Center CY - Cubic Yard CYL - Cylinder DBL - Double

DN - Down

DO - Ditto

DEM - Demolish DEPR - Depressed DEPT - Department DES - Double Extra Strong DTL - Detail DF - Drinking Fountain DIA - Diameter

FURR - Furring FUT - Future DIAG - Diagonal FW - Flatwasher DIAPH - Diaphragm DIM - Dimension GA - Gauge DIR - Director GAL - Gallon DK - Deck

DL - Dead Load GALY - Galvanized GB - Gypsum Board GC - General Contractor DP - Damp Proofing GEN - General GL - Glass, Glu-lam GND - Ground

DR - Door DS - Downspout DTA - Dovetail Anchor DTL - Detail DTS - Dovetail Slot DWG - Drawing DWGS - Drawings

DWL - Dowel E - East EA - Each EF - Each Face EFS - Exterior Finish System EIFS - Exterior Insulating Finish EJ - Expansion Joint

EL - Elevation ELECT - Electrical ELEY - Elevator, Elevation EMER - Emergency ENCL - Enclosure ENT - Entrance EQ - Equal EQUIP - Equipment ES - Extra Strong EST - Estimated EVID - Evidence EW - Each Way

EWC - Electric Water Cooler

EWC - Excavate

EXH - Exhaust

EXIST - Existing

EXP - Exposed

EXT - Exterior

EXPAN - Expansion

EXP JT - Expansion Joint

F - Fahrenheit F/F - Face to Face FAC - Facility FAS - Fasten, Fastener FBO - Furnished by Others f'c - Ultimate Concrete Strength FD - Floor Drain FDN - Foundation FF - Finish Floor FG - Finish Grade FH - Flat Head

LAV - Lavatory FHC - Fire Hose Cabinet LBS - Pounds FIDS - Flight Information Display LDG - Landing FlG - Figure LH - Left Hand FIN - Finish LL - Live Load

FL - Floor FLASH - Flashing FLT - Flat LT - Light FOB - Face of Brick FPRFG - Fireproofing LTL - Lintel FRT - Fire Retardant FT - Foot or Feet FTG - Footing

MAR - Marble Fy - Yield Strength of Steel

MBR - Member MECH - Mechanical MEMB - Membrane MEZZ - Mezzanine MFR - Manufacturer MH - Manhole

GR - Grade MI - Malleable Iron GRT - Grout MIN - Minimum GWB - Gypsum Wallboard MISC - Miscellaneous GYP - Gypsum MK - Mark ML - Match Line HC - Hollow Core MM - Millimeter HD - Heavy Duty, Head HDR - Header HDRL - Handrail

HDW - Hardware HEX - Hexagonal HK - Hook HM - Hollow Metal HORIZ - Horizontal HR - Hour HS - High Strength HT - Height HTR - Heater

HWS - Headed Welded Studs ID - Inside Diameter (Dim.) IF - Inside Face IN - Inches INCL - Include INSUL - Insulation INT - Interior INTM - Intermediate ISOL - Isolation JAN - Janitor

JB - Jamb

JST - Joist

JT - Joint

JC - Janitor Closet

KD - Kiln Dried KIT - Kitchen KSF - Kips Per Square Foot KSI - Kips Per Square Inch L - Steel Angel, Length LAB - Laboratory LAM - Laminated LB - Lag Bolt, Ledger Beam

L/F - Lost & Found LLH - Long Leg Horizontal LLV - Long Leg Vertical LSL - Long Slotted

LTWT - Lightweight LPT - Low Point LVR - Louver

MACH - Machine MAS - Masonary MATL - Material MAX - Maximum MB - Machine Bolt

RAC - Rent-a-car RAD - Radius RB - Racquetball RD - Roof Drain REF - Reference REM - Remove

MO - Masonary Opening MRR - Men's Restroom MS - Machine Screw MTD - Mounted MTL - Metal MULL - Mullion

N - North NA - Not Applicable NIC - Not In Contract NO. - Number NOM - Nominal NS - Non Shrink NTS - Not To Scale SECT - Section, Secretary

OA - Overall OC - On Center OD - Outside Diameter (Dim.) OF - Outside Face OH - Overhead OPNG - Opening OPP - Opposite OPPH - Opposite Hand OPS - Operations OVS - Oversized OZ - Ounce

K - Kips (Kilo pound or 1000 lbs.) PA - Public Address PC - Precast PCF - Pounds Per Cubic Foot PED - Pedestal PEMB - Pre-Engineered Metal Building PK - Parkina PL - Plate PLAS - Plastic PLBG - Plumbina PLF - Pounds Per Lineal Foot PLYWD - Plywood PNL - Panel

POL - Polished PP - Panel Point PR - Pair PRCST - Precast PREFAB - Prefabricated PREP - Preparation PROJ - Projection PSF - Pounds Per Square Foot PSI - Pounds Per Square Inch

T - Tread PSTR - Prestressed PT - Pressure Treated, Paint, Point PTD - Painted PTN - Partition PVC - Polyvinyl Chloride PVMT - Pavement QC - Quality Control QT - Quarry Tile TLT - Toilet

R - Riser, Reaction, Radius R&D - Remove and Dispose RECEPT - Reception REINF - Reinforced, Reinforcement REQ - Required RET - Return, Retaining REV - Revision, Reverse

RFG - Roofing RH - Right Hand RM - Room RO - Rough Opening 5 - South, Standard Beam SAN - Sanitary SAS - Self Adhering Sheet SBC - Standard Building Code SC - Solid Core SCHED - Schedule

SECUR - Security SERV - Service SEW - Sewer SF - Square Feet SFBC - South Florida Building Code W/O - Without SGL - Single SHT - Sheet SHTH - Sheathing SIM - Similar SJ - Sawed Joint SJI - Steel Joist Institute SL - Steel Line SLV - Sleeve

SLO - Short Leg Out

SLV - Short Leg Vertical

SLNT - Sealant

SOG - Slab On Grade SPA - Space SPCR - Spacer SPEC - Specification SPKLER - Sprinkler SPM - Single Ply Membrane SQ - Square SS - Stainless Steel SSL - Short Slotted ST - Struct Tee Cut from Std.

STD - Standard STL - Steel STOR - Storage STRUCT - Structural SUPER - Supervision SUSP - Suspended SVC - Service SY - Square Yard SYM - Symetrical SYS - System

T&B - Top & Bottom TC - Top Chord TELEPH - Telephone TEMP - Temporary, Temperature T&G - Tongue & Groove THK - Thick THRESH - Threshold TOC - Top of Concrete TOF - Top of Footing

TOL - Toleranace

TPG - Topping

TOS - Top of Steel

TS - Structural Tube

TV - Television TYP - Typical UN - Unless Noted UNEX - Unexcavated UNF - Unfinished UON - Unless Otherwise Noted UR - Urinal

VB - Vapor Barrier VCT - Vinyl Composition Tile VEL - Velocity VERT - Vertical VEST - Vestibule VFY - Verify VOL - Volume VT - Vinyl Tile

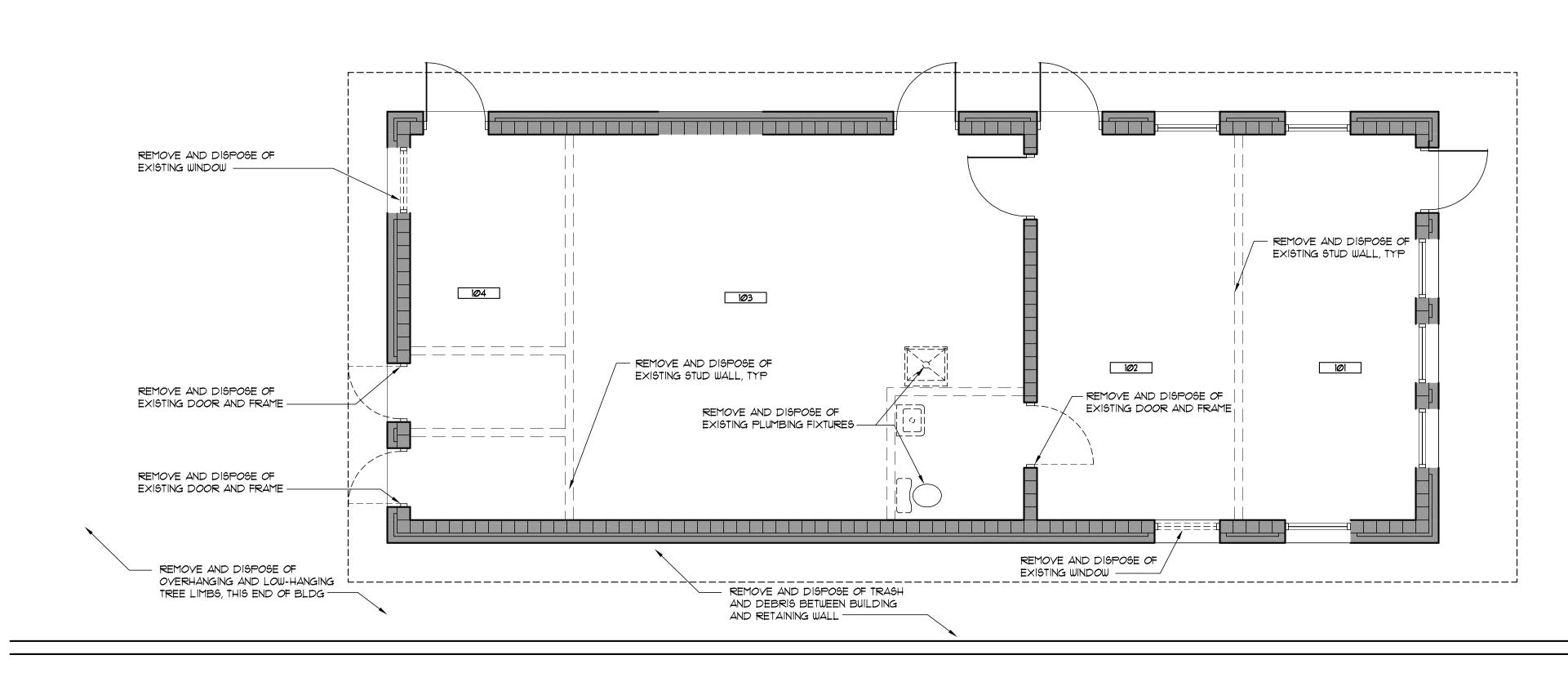
W - Wide Flange Section, West W/ - With W/C - Water Closet WD - Wood WDW - Window WLD - Weld WP - Waterproof, Working Point WPFG - Waterproofing WRR - Women's Restroom WS - Waterstop, Welded Stud WT - Struct Tee Cut from W Section WWF - Welded Wire Fabric

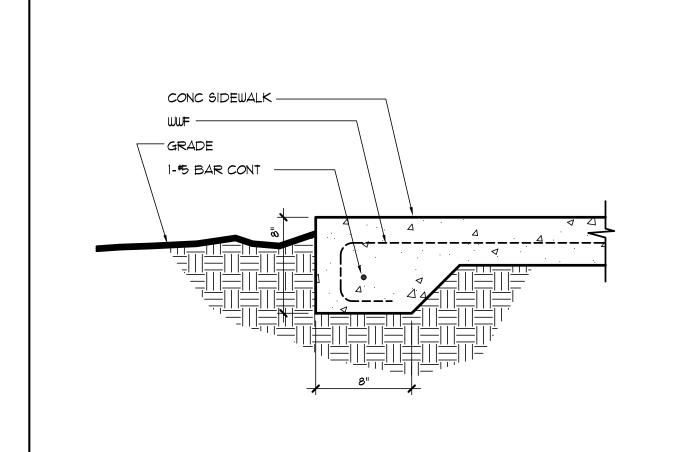
REVISIONS

RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

SHEET TITLE:

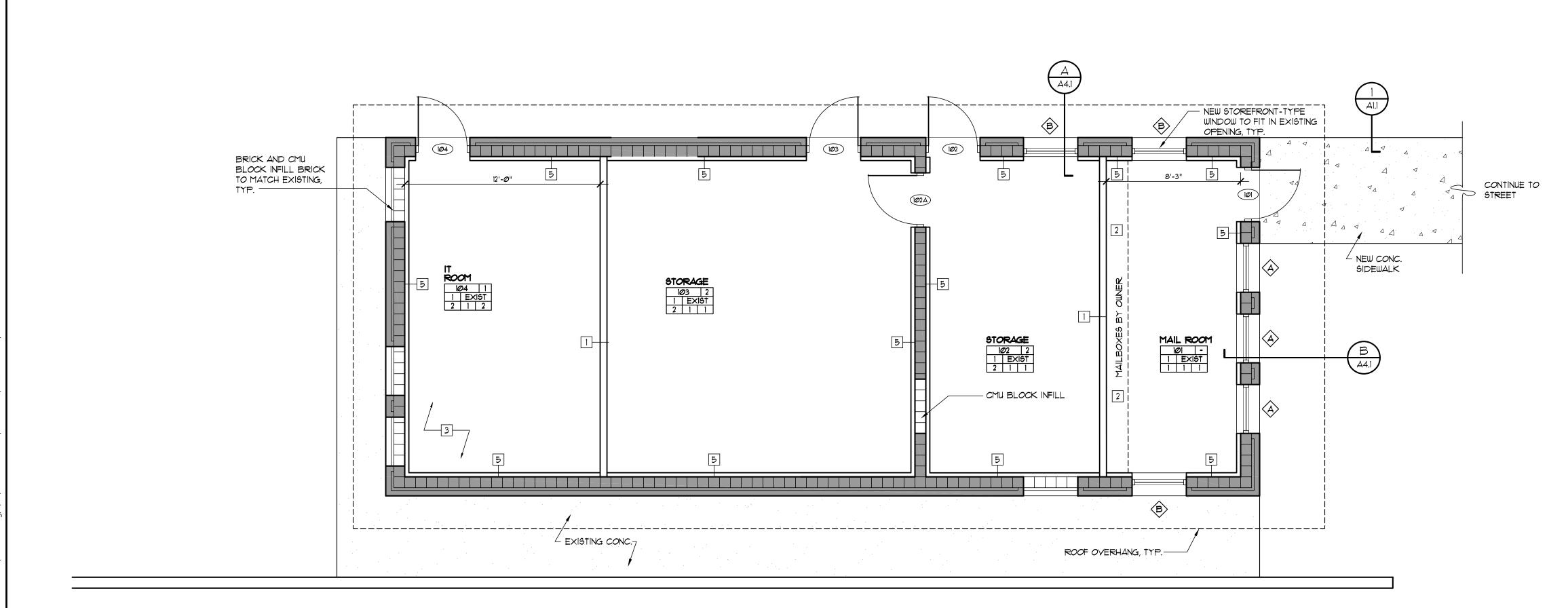














FINISH SCHEDULE

CEILING

1. PAINTED GWB

FLOORS LUXURY VINYL TILE (LVT)
 SEALED CONCRETE SPACE NAME SPACE NO REMARKS

1. YINYL

1. EGGSHELL ENAMEL PAINTED GWB OR CMU 2. EGGSHELL ENAMEL PAINTED PLYWOOD

REMARKS

1. PROVIDE PLYWOOD WALL PANELS IN LIEU OF GWB, THIS

CLG CLG HT

FLR BASE WALL

2. PROVIDE IMPACT RESISTANT GWB AT ALL WALLS, THIS SPACE

CONSTRUCTION KEYNOTES PROVIDE NEW INTERIOR PARITION: GWB ON 3 5/8" MTL STUDS

- SEE FINISH SCHEDULE FOR GWB TYPE 2 PROVIDE ONE ELECTRICAL AND ONE DATA CONNECTION
- FOR FUTURE MAILBOX INSTALLATION
- 3 STABILIZE EXISTING CONC. SLAB THIS AREA, SEE ALLOWANCES
- 4 NOT USED
- 5 PROVIDE 2 1/2" MTL STUDS, OFFSET 1/4" FROM EXISTING CMU, AND GWB THIS WALL. AFFIX 2" RIGID INSULATION TO EXISTING CMU WALL AT EXTERIOR WALLS. COORDINATE

DEPTH OF FURRING TO ACCOMMODATE ELEC. WALL BOXES.

₩	YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
兙	IASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			Ø4/22/24
909	% CONSTRUCTION DOCUMENTS			06/28/24
CO	NSTRUCTION DOCUMENTS			<i>0</i> 9/13/24



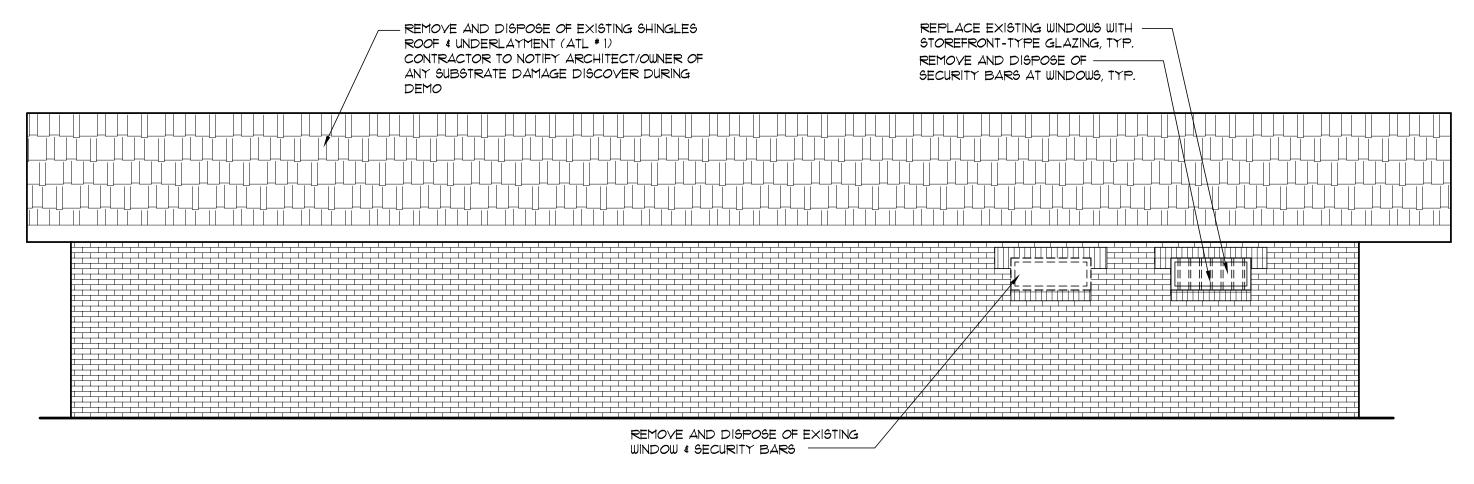
2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 323Ø1 ARCHITECTS Commission Number: 24852

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

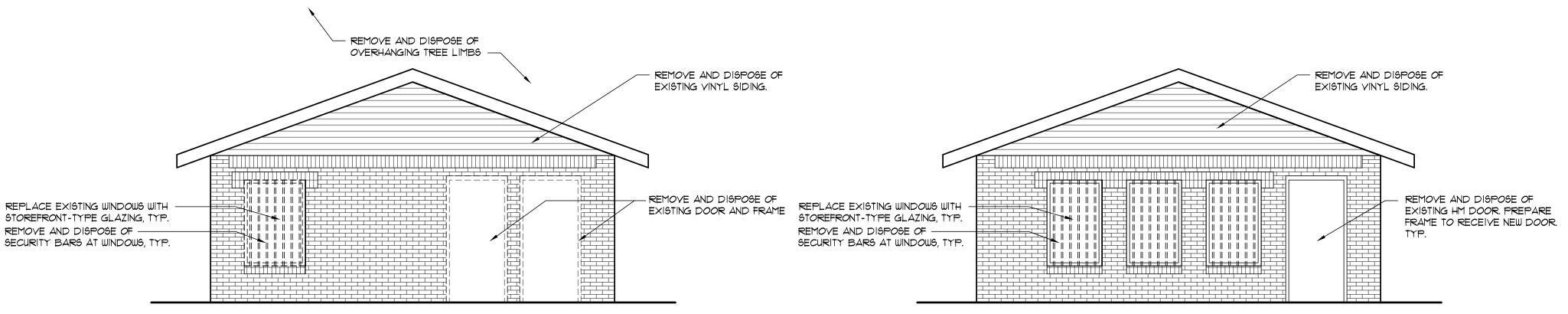
TALLAHASSEE, FLORIDA

SHEET TITLE:

FLOOR PLANS

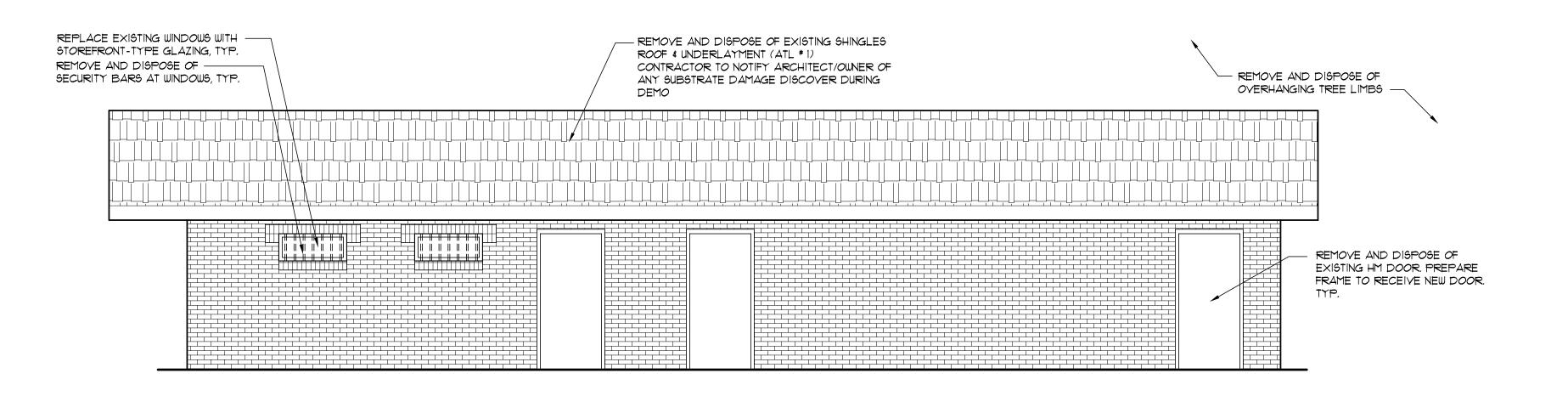


EXISTING SOUTH ELEVATION SCALE: 1/4" = 1'-0"



EXISTING WEST ELEVATION





EXISTING NORTH ELEVATION

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



NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	IASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			Ø4/22/24
909	% CONSTRUCTION DOCUMENTS			06/28/24
CO	NSTRUCTION DOCUMENTS			Ø9/13/24



PROJECT:

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

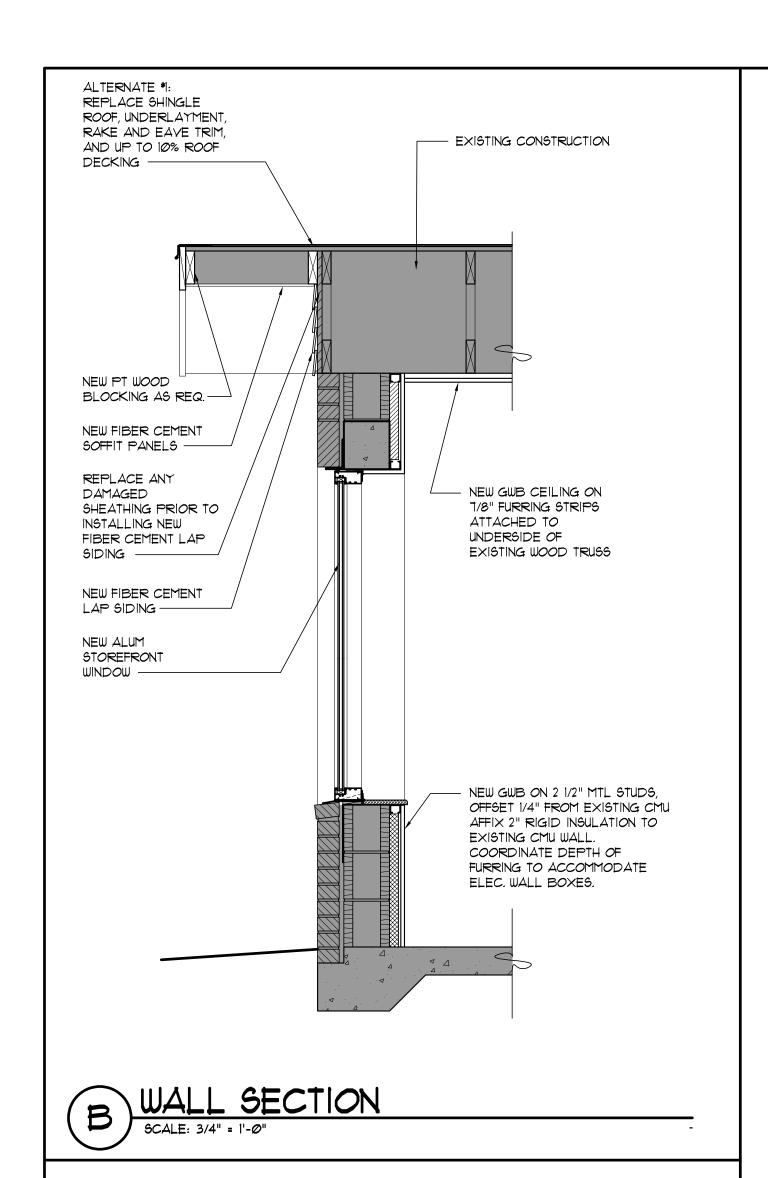
TALLAHASSEE, FLORIDA

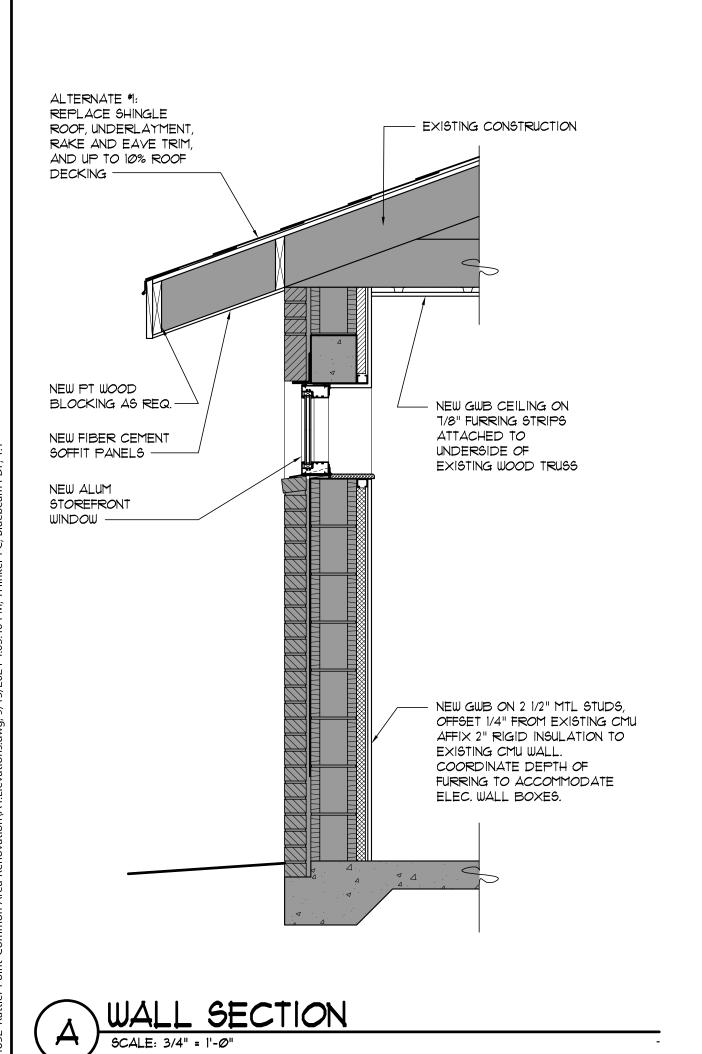
SHEET TITLE:

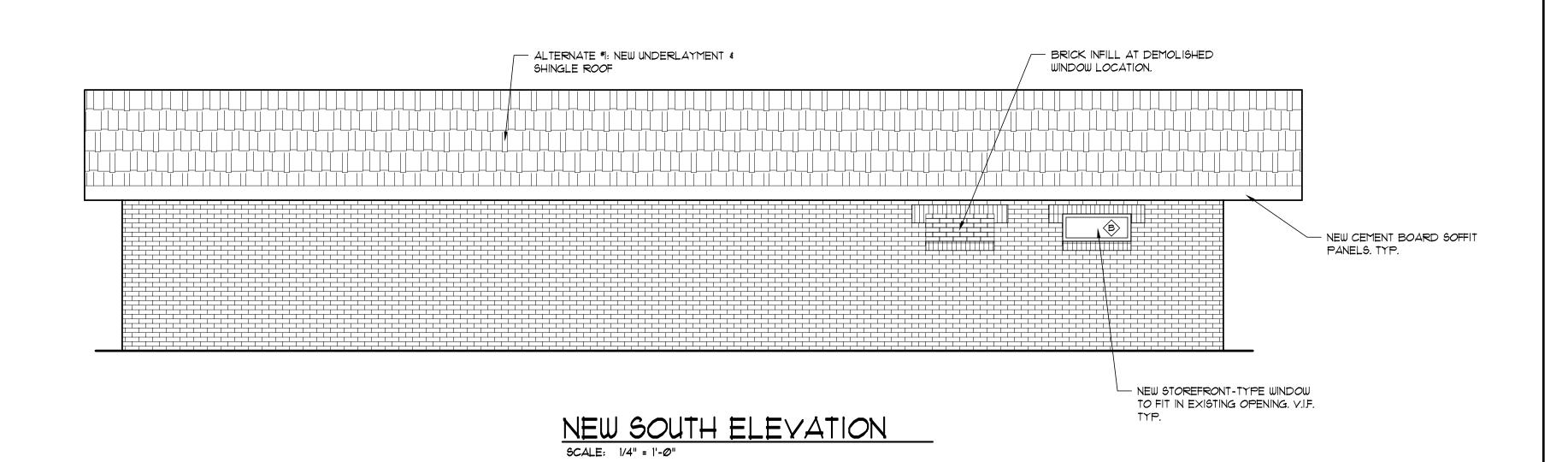
EXISTING EXTERIOR ELEVATIONS

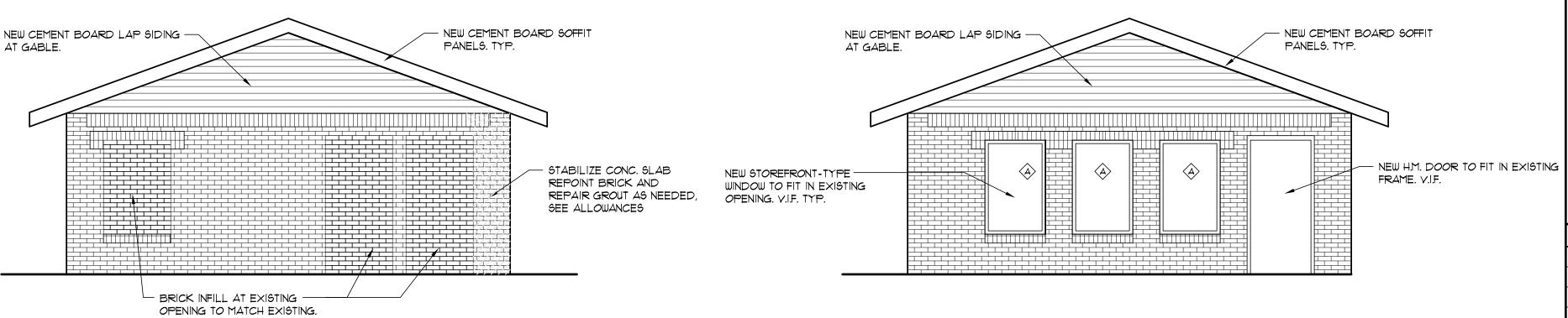
SHEET NUMBER:

A4.1



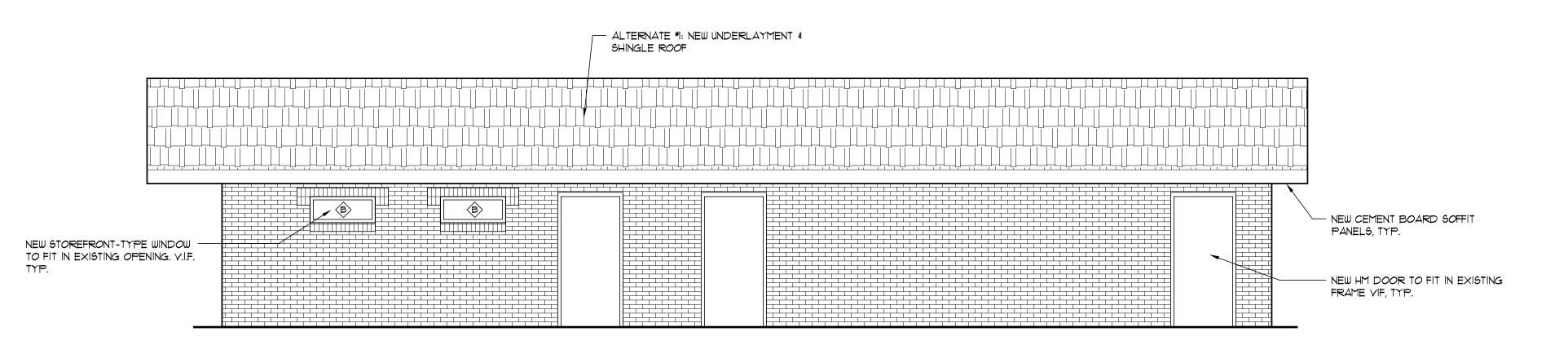












NEW NORTH ELEVATION

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



90% CONSTRUCTION DOCUMENTS 06/28/	NO.	DESCRIPTION	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN 04/22/2 90% CONSTRUCTION DOCUMENTS 06/28/2					
SCHEMATIC DESIGN 04/22/2 90% CONSTRUCTION DOCUMENTS 06/28/2					
SCHEMATIC DESIGN 04/22/2 90% CONSTRUCTION DOCUMENTS 06/28/2					
SCHEMATIC DESIGN 04/22/2 90% CONSTRUCTION DOCUMENTS 06/28/2					
SCHEMATIC DESIGN 04/22/2 90% CONSTRUCTION DOCUMENTS 06/28/2					
90% CONSTRUCTION DOCUMENTS 06/28/	PH	ASE	DRAWN	CHECKED	DATE
	SC	HEMATIC DESIGN			Ø4/22/24
CONSTRUCTION DOCUMENTS 09/13/2	909	6 CONSTRUCTION DOCUMENTS			06/28/24
	CO	NSTRUCTION DOCUMENTS			<i>0</i> 9/13/24



PROJECT:

FLORIDA A&M UNIVERSITY
RATTLER POINT
WASH HOUSE BUILD OUT DESIGN

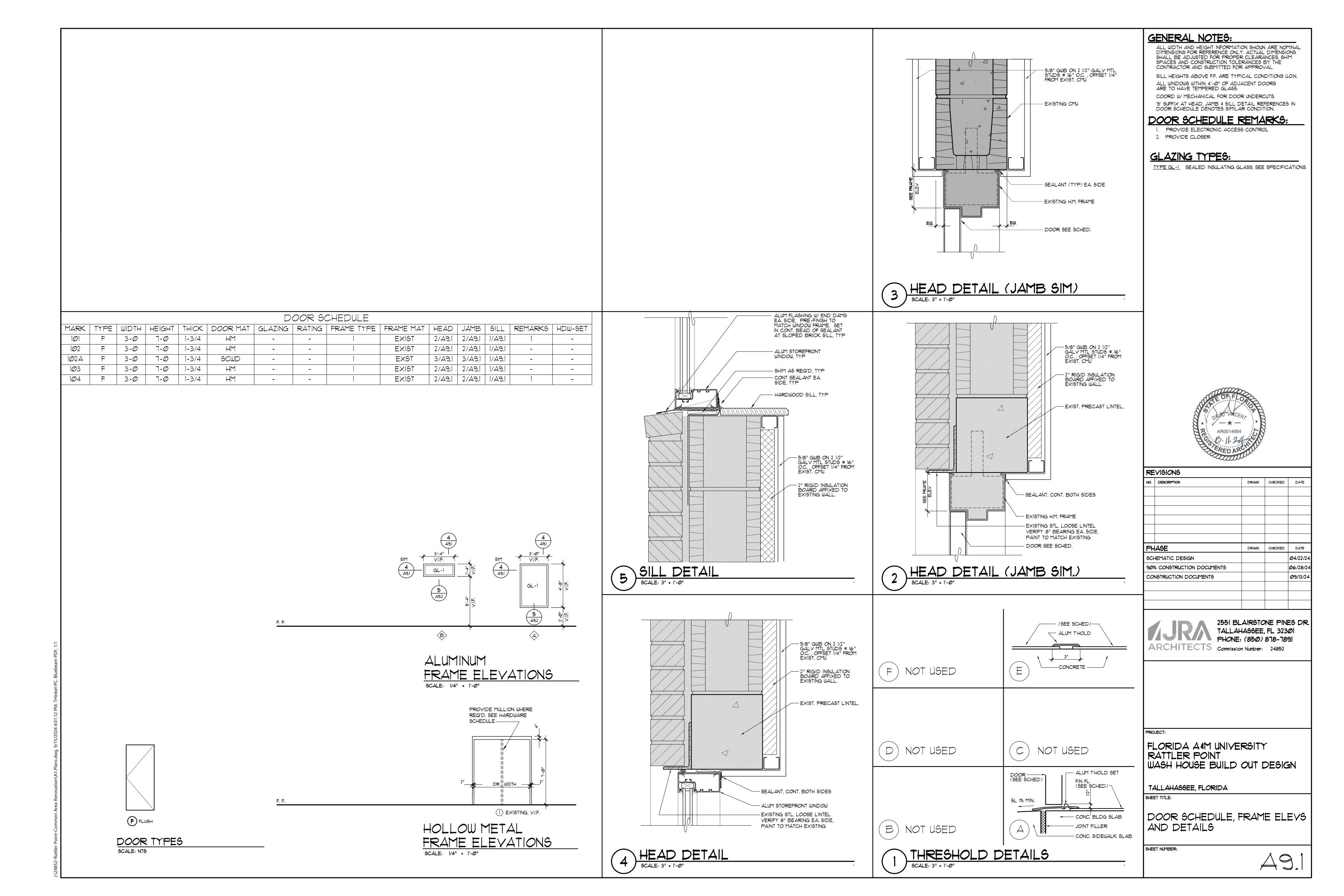
TALLAHASSEE, FLORIDA

SHEET TITLE:

EXTERIOR ELEVATIONS & WALL SECTIONS

SHEET NUMBER:

A4.2





CODE REFERENCE

ALL MAY NOT APPLY

THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

FBC, BUILDING FLORIDA BUILDING CODE 8TH EDITION

FBC, EXISTING BUILDING FLORIDA BUILDING CODE 8TH EDITION

FBC, FUEL GAS FLORIDA BUILDING CODE 8TH EDITION

FBC, ENERGY CONSERVATIONFLORIDA BUILDING CODE 8TH EDITION

NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS

NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT

NFPA 54 NATIONAL FUEL GAS CODE

NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION

NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS

NFPA 101 LIFE SAFETY CODE

NFPA 101A GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY

NFPA 101B CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES

NFPA 900 BUILDING ENERGY CODE

ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

ANSI AMERICAN NATIONAL STANDARDS INSTITUTE

ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ADA AMERICAN WITH DISABILITIES ACT

UL UNDERWRITERS LABORATORIES

THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS, PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS.

DUCTWORK SPECIFICATIONS

1.SHEET METAL DUCTWORK

1.1.DUCT MATERIAL CLASS "A" GALVANIZED STEEL OR ROLLED STEEL IN COMPLIANCE WITH SMACNA 205-3RD EDITION LOW/MEDIUM PRESSURE DUCT STANDARDS TABLE 1.1. DUCTS SHALL BE TESTED, VERIFIED AND RECORDED IN ACCORDANCE WITH ASHRAE 90.1-2013 REQUIREMENT BASED ON LEAKAGE RATE LESS THAN 4% PER 100SF OF DUCT.

1.2. SEALER: LOW VOC MASTIC PAINT.

2.1.LINES SHALL BE RUN STRAIGHT, LEVEL, PLUMB, AND ROUTED AS INDICATED IN THESE DRAWINGS. ALL LABELED DUCT DIMENSIONS ARE INTERNAL SIZES AND INDICATE FULL INSIDE CLEAR FREE AREA.

2.2. MINOR MODIFICATIONS TO DUCT ROUTING DUE TO OBSTRUCTIONS OR COORDINATION WITH OTHER TRADES WILL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER. ANY CHANGES IN SIZE TO DUCTWORK MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION. 2.3.ALL MITERED RECTANGULAR DUCT 90 DEGREE ELBOWS SHALL BE PROVIDED WITH

TURNING VANES 2.4.ALL SUPPLY, RETURN AND EXHAUST DUCTS SHALL BE EXTERNALLY INSULATED UNLESS OTHERWISE NOTED. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE

MICROLIGHT XL 2" THICK 0.75 PCF R6.0 OUT OF THE BOX WITH FSK VAPOR BARRIER. SEAL WITH FIRE RATED MASTIC SEAL PER UL-181A-M AT ALL JOINTS AND SEAMS; OR APPROVED ACRYLIC FOIL PRESSURE SENSITIVE TAPE PER UL-181A-P APPLIED USING SQUEEGEE APPROVED METHOD AT JOINTS AND SEAMS. RUBBER BASE TAPES ARE NOT ALLOWED. 2.5. DUCTBOARD IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER

OF RECORD.

2.6. DUCTS SHALL HAVE MINIMUM INSULATION VALUES AS LISTED IN FBC-EC 403.2.9.1.

3.FLEXIBLE DUCTS:

3.1. DUCT TO AIR TERMINALS SHALL BE LIMITED IN LENGTH AS SHOWN IN DETAILS. 3.2. SHALL BE UL LISTED AS A CLASS 1 AIR DUCT COMPLYING WITH UL STANDARD 181, NFPA 90A & 90B AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE

DEVELOPMENT RATING NOT OVER 50. 3.3. SHALL HAVE A POSITIVE OPERATING PRESSURE OF 10" MINIMUM. FLEXIBLE DUCT SHALL HAVE BEEN TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 200°F UNDER CONTINUOUS OPERATION.

3.4.SHALL BE RATED FOR A MINIMUM AIR VELOCITY OF 5000 FPM. 3.5.INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4 PCF DENSITY FIBERGLASS. SUPPLY DUCTS SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 4.2, BUT R-6 FOR SUPPLY DUCT IN ATTIC AND OUTDOOR SPACES. OUTER LINER SHALL BE A BI-DIRECTIONAL FIBERGLASS REINFORCED METALIZED VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW

RESTRICTIONS. 3.6.PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHERE REQUIRED. FLEXIBLE DUCT SHALL HAVE A FULL 10-YEAR WARRANTY 3.7.INNER LINER SHALL CONSIST OF A CPE CORE PERMANENTLY BONDED TO A COATED

SPRING STEEL WIRE HELIX (MIN. 041" THICK). 3.8. SHALL BE THERMAFLEX TYPE M-KE, FLEXMASTER TYPE 8M OR EQUAL. 3.9. SHALL BE SUPPORTED SO THAT HORIZONTAL RUNS ARE STRAIGHT AND WITHOUT SAGS OR BENDS. SHEET METAL SADDLES SHALL BE PROVIDED AT ALL HANGERS FOR FLEX DUCTS TO PREVENT KINKING OF THE DUCTS AND EXCESSIVE COMPRESSION OF THE INSULATION.

REFRIGERANT PIPING

1.BELOW FINISHED FLOOR: COPPER TUBING - TYPE "K" SOFT ANNEALED TEMPER, NO JOINTS BELOW GRADE.

2.ABOVE FINISHED FLOOR: COPPER TUBING - TYPE "L"HARD DRAWN TEMPER WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS AT 1100 DEG F; FLUX MATERIAL NOT

3.SUCTION LINES SHALL BE INSULATED WITH MINIMUM 3/4" ARMAFLEX INSULATION WITH TAPED JOINTS. INSULATION SHALL ALWAYS COMPLY WITH FBC-EC 403.2.10. HANGERS STRAPS OR SADDLES SHALL NOT COMPRESS INSULATION BELOW REQUIRED SIZE.

4.EXTERIOR PIPING INSULATION SHALL BE PROTECTED FROM UV RADIATION. COVER ALL EXTERIOR REFRIGERANT LINES WITH ALUMINUM JACKET, INSTALLED TO SHED WATER AND SECURED WITH STAINLESS STEEL BANDS 12" O.C.

5.SYSTEMS SHALL BE PLACED UNDER A VACUUM FOR REMOVAL OF NON-CONDENSABLES

PRIOR TO BEING PUT INTO SERVICE. 6.SYSTEMS SHALL BE PRESSURE TESTED USING NITROGEN PRIOR TO BEING PUT INTO

7.PIPES SHALL BE SIZED BY THE EQUIPMENT MFG.

HVAC GENERAL NOTES

1.ONLY NEW EQUIPMENT SHALL BE PROVIDED UNLESS INDICATED AS EXISTING TO REMAIN.

2.ALL CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE REGIONS FOR VIBRATION ISOLATION.

3.ALL EQUIPMENT SHALL BE LABELED SO THAT USERS CAN IDENTIFY EACH PIECE OF EQUIPMENT. LABELS SHALL BE CONSISTENT WITH EQUIPMENT TAGS THAT ARE LISTED IN THE SCHEDULES WITHIN THESE DOCUMENTS. ANY ABOVE CEILING EQUIPMENT SHALL HAVE | SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE A LABEL PROVIDED ON THE CEILING BELOW THE UNIT FOR EASE OF LOCATING BY MAINTENANCE PERSONNEL.

4.ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.

5.INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE CEILING

6.COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL EQUIPMENT SO THAT THE REQUIRED CODE CLEARANCES TO ELECTRICAL EQUIPMENT IS

7.DUCTWORK AND PIPING INSTALLATIONS SHALL ALLOW FOR EQUIPMENT RECOMMENDED MAINTENANCE CLEARANCES. CONVENIENT ACCESS FOR REMOVAL OF FILTERS SHALL BE MAINTAINED.

8.MATERIALS INSTALLED WITHIN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE.

9.COORDINATE THE PLACEMENT AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND LIGHTING LAYOUT.

10.THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.

11.AT THE ONSET OF TEST AND BALANCE ACTIVITIES PROVIDE NEW FILTERS TO ALL UNITS. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. SEAL ALL OPEN ENDED DUCTS DURING CONSTRUCTION.

12.ENSURE ALL EQUIPMENT HAS BEEN CLEANED AT THE END OF THE PROJECT.

13.DO NOT LOCATE AIR INTAKES CLOSER THAN 10 FEET FROM ANY VENT OR EXHAUST OUTLETS. ROUTE TOILET EXHAUST TO LOCATION SHOWN ON PLANS. WALL CAPS SHALL BE ALUMINUM CONSTRUCTION WITH BACKDRAFT DAMPER, BIRD AND INSECT

14.PROVIDE FIRE DAMPER IF SHOWN ON PLANS, WHERE DUCT PENETRATES FIRE-RATED CONSTRUCTION. ATTACH 1/2" OR LARGER TEXT LABELING THE DAMPER ACCESS

15.INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIVISION 26) IN SUPPLY AIR DUCT BEFORE ANY TAKE OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY OF 2000 CFM OR GREATER.

16.WHERE FIRE, SMOKE, COMBINATION FIRE SMOKE DAMPERS CONTROL DAMPERS, VALVES, COILS OR OTHER DEVICE NEEDING ACCESS ARE INSTALLED, PROVIDE DUCT ACCESS DOORS. WHERE INSTALLED IN INACCESSIBLE LOCATIONS, PROVIDE CEILING/WALL ACCESS PANELS. PANELS LOCATED IN RATED ASSEMBLIES SHALL BEAR A UI RATING. COORDINATE LOCATION OF SUCH ACCESS WITH ARCHITECT PRIOR TO INSTALLATION.

17.PROVIDE MEANS OF TEST AND BALANCE IN ALL TAKE OFF FITTINGS OF SUPPLY EXHAUST, RETURN SYSTEMS AND AT EACH POINT WHERE A BRANCH SERVES TWO OR MORE GRILLES, WHETHER SHOWN ON THE PLANS OR NOT.

18.WHERE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCH TAKES PRECEDENCE. CONTROLLERS SHALL BE MOUNTED ADJACENT AND WITHIN 48" AFF.

19.PRODUCE MANAFACTURER'S INSTALLATION INSTRUCTION AT INSPECTION PER FBC-

19.1.SPLIT A/C EQUIPMENT: LENNOX, TRANE, CARRIER, DAIKIN 19.2. AIR DISTRIBUTION: PRICE, METALAIRE, TITUS 19.3. FANS: PENNBERRY, GREENHECK, BROAN, PANASONIC, COOK

DESIGN CRITERIA

BUILDING TYPE GROUP B, BUSINESS

CLIMATE ZONE 2A, LEON COUNTY, FLORIDA OUTDOOR DESIGN CONDITIONS (SUMMER) 95 DEG Fdb, 77 DEG Fwb

OUTDOOR DESIGN CONDITIONS (WINTER) 20 DEG Fdb

INTERIOR DESIGN CONDITIONS 75 DEG F COOLING, 72 DEG F HEATING

ENERGY COMPLIANCE METHOD ENERGY COST BUDGET

CONDENSATE PIPING

FOUNDATION.

UP TO 20 TONS

2.ALL CONDENSATE DRAIN PIPE SYSTEMS SHALL HAVE A BUILT TRAP AT EACH PIECE OF EQUIPMENT PER DETAILS.

3.ALL LINES SHALL BE INSULATED WITH 1/2" ARMAFLEX FROM EQUIPMENT TO APPROVED DISPOSAL POINT OR OUTSIDE AT GRADE IN COMPLIANCE WITH FBC-M 307.2.1. OUTSIDE DISPOSAL AT EARTH SHALL BE MINIMUM 1 FOOT AWAY FROM BUILDING STRUCTURE AND

1.CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.

4.TRAP AIR CONDITIONING CONDENSATE AND RUN TO LOCATION SHOWN ON PLANS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRST 12" OF CONDENSATE PIPE, INCLUDING TRAP. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDENSATE PIPE AFTER 12" OF PIPE FROM THE UNIT, UP TO AND INCLUDING CONDENSATE | LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. TERMINATION

5.COVER ALL EXTERIOR CONDENSATE LINES WITH ALUMINUM JACKET, INSTALLED TO SHED WATER AND SECURED WITH STAINLESS STEEL BANDS 12" O.C.

3/4" DIAMETER

6.IF OTHERWISE UNSPECIFIED, TERMINATE CONDENSATE INTO STORM CONNECTION, OR ARCHITECT-APPROVED GRAVEL OR GREEN PATCH AT LEAST 12" AWAY FROM BUILDING. 7.PROVIDE CONDENSATE SAFETY SWITCH AND UNIT SHUTOFF SEQUENCE IN THE EVENT OF

8.CONDENSATE DRAIN SIZING (PER FBC-M TABLE 307.2.2)

21 TO 40 TONS 1"DIAMETER 41 TO 90 TONS 1 1/4"DIAMETER 1 1/2" DIAMETER 91 TO 125 TONS 126 TO 250 TONS 2" DIAMETER

251 AND ABOVE SIZED BASED ON ACTUAL FLOW

CONDENSATE OVERFLOW OR BACKUP.

SHEET NUMBER	SHEET NAME
M0.1	HVAC NOTES & LEGENDS
M1.1	FLOOR PLAN - DEMOLITION - HVAC
M1.2	FLOOR PLAN - RENOVATION - HVAC
M5.1	HVAC DETAILS
M5.2	HVAC DETAILS
M6.1	HVAC SCHEDULES

MECHANICAL SHEET INDEX

GENERAL NOTES

1.THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.

2.THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND TO FIELD CONFLICTS AND OR PROJECT CONDITIONS.

3.THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

4.CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

5.ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.

6.PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.

7.PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.

8.DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.

9.THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.

10.THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT ROOMS.

11.ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN WHO ARE TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE

12.ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPS REGULATIONS AND GUIDELINES.

13.THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.

14.REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS, AND BARRICADES FOR PEDESTRIANS.

15.COORDINATE ALL DEMOLITION, CLEANING, AND CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE OWNER A FULL CONSTRUCTION SCHEDULE.

16.CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.

17.THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.

18.ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.

19.IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.

20.SUPPORTS, HANGERS, WIRING, AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE. 21.ALL ROOF EQUIPMENT SHALL BE SECURED TO STRUCTURE TO

RESIST A 120 MPH WIND LOAD. 22.PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON

THE ROOF IS REQUIRED.

23.CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES.

24.STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR, OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

25.CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.

26. VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN	LJ	REGII	04/22/24
90%	CONSTRUCTION DOCUMENTS	LJ	REGII	06/28/24
CON	NSTRUCTION DOCUMENTS	LJ	REGII	09/13/24
				1



2551 BLAIRSTONE PINES DR.

NO. 77568

STATE OF

CONSULTANTS:



FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

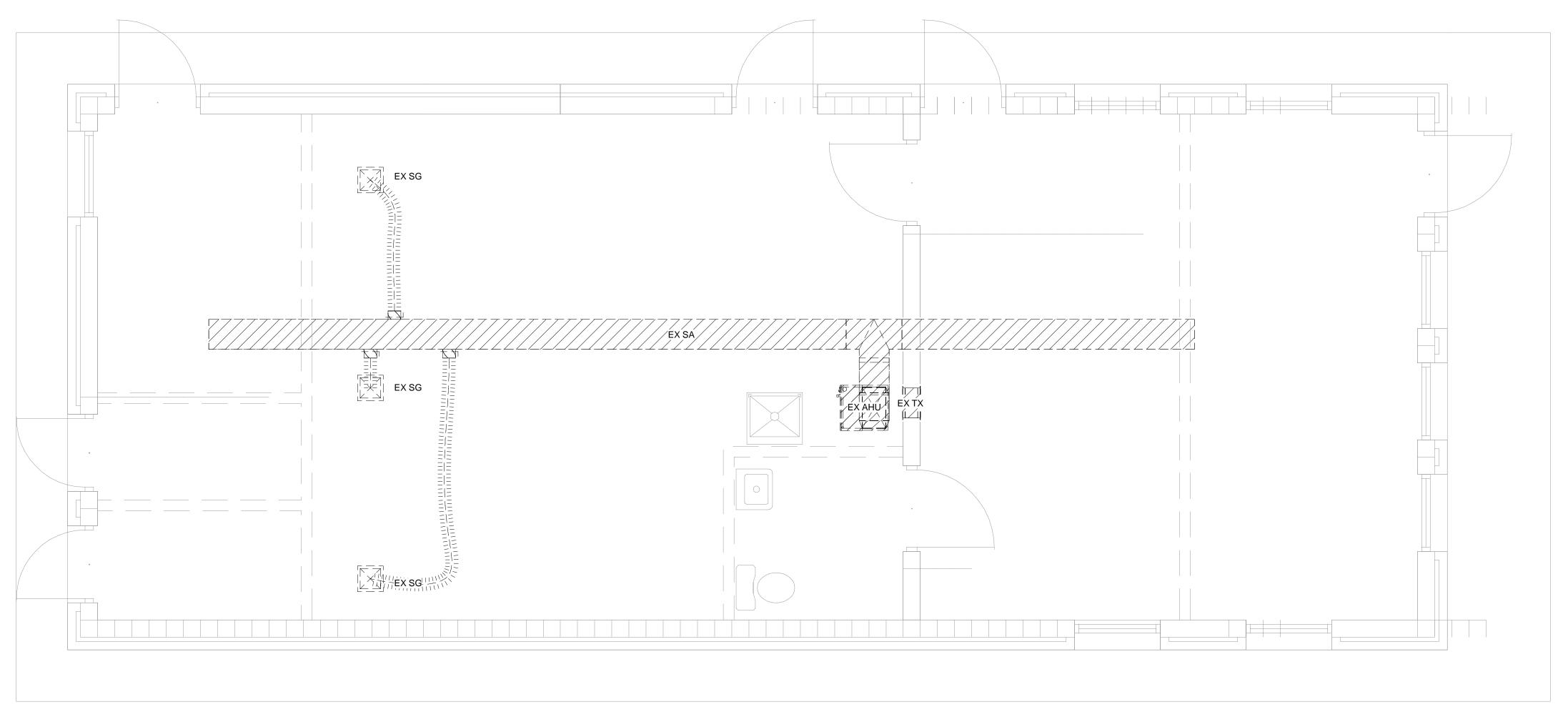
HVAC NOTES & LEGENDS

HVAC DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT LOCATIONS AND DUCT ROUTING BEFORE COMMENCEMENT OF WORK.

2. DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND AIR DEVICES. CONTRACTOR SHALL INSTALL ALL NEW IN RENOVATION BASED ON PLANS AND SCHEDULES. REFER TO OWNER FOR VENDOR INFORMATION.

3. WHERE DEMOLITION OCCURS, CONTRACTOR SHALL CAP AND SEAL UNUSED WALL AND ROOF PENETRATIONS, WATER AND AIR TIGHT.



1 HVAC D M1.1 Scale: 3/8" = 1'-0" HVAC DEMOLITION FLOOR PLAN

RE	VISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN	LJ	REGII	04/22/24
90%	CONSTRUCTION DOCUMENTS	LJ	REGII	06/28/24
CON	NSTRUCTION DOCUMENTS	LJ	REGII	09/13/24

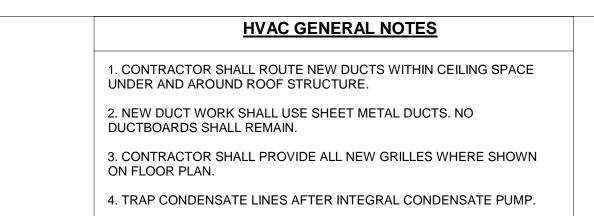




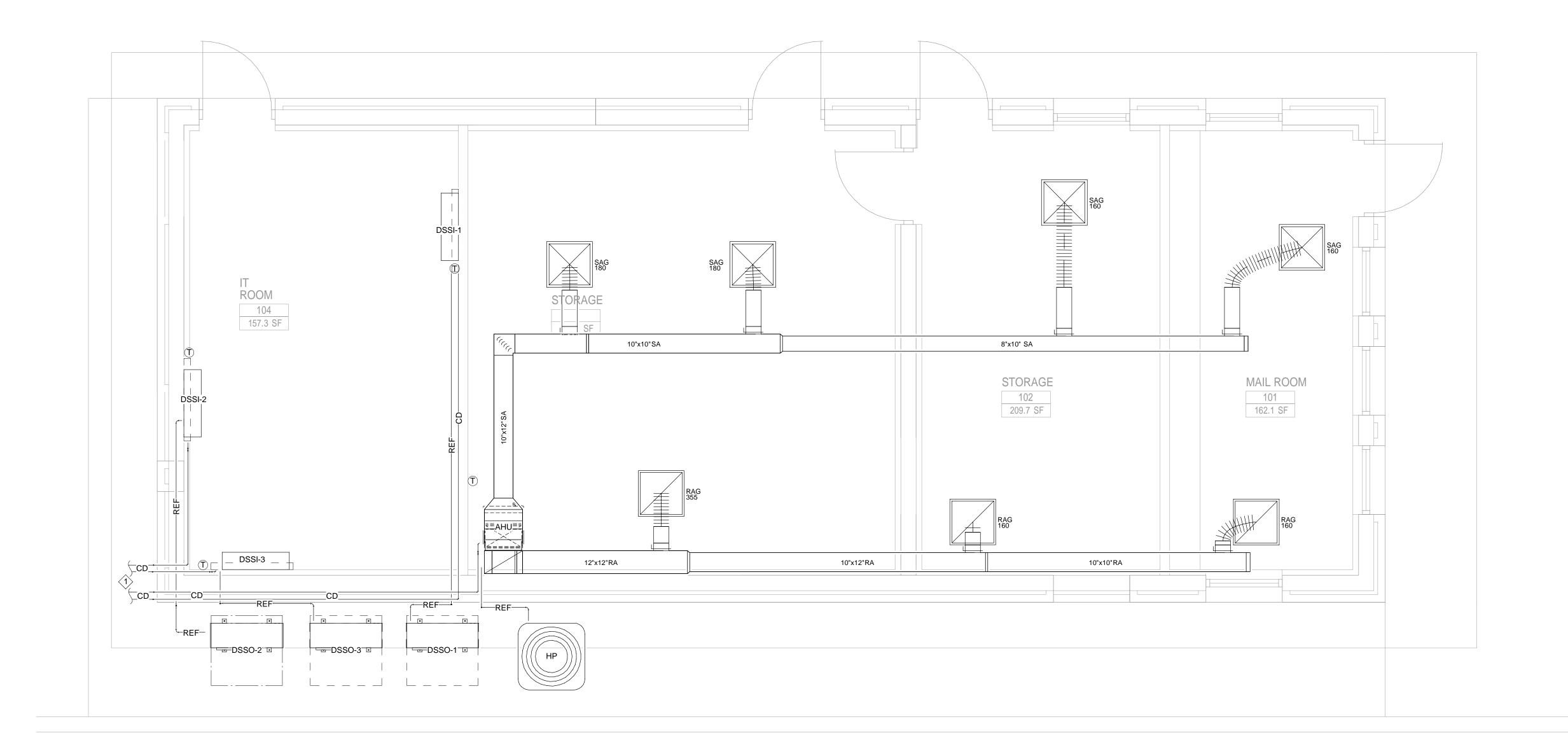
FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT **DESIGN** TALLAHASSEE, FLORIDA

FLOOR PLAN - DEMOLITION -**HVAC**





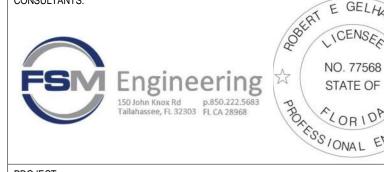




HVAC RENOVATION FLOOR PLAN M1.2 Scale: 3/8" = 1'-0"

RE	VISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	ASE	DRAWN	CHECKED	DATE
SCH	IEMATIC DESIGN	LJ	REGII	04/22/24
90%	CONSTRUCTION DOCUMENTS	LJ	REGII	06/28/24
CON	ISTRUCTION DOCUMENTS	LJ	REGII	09/13/24

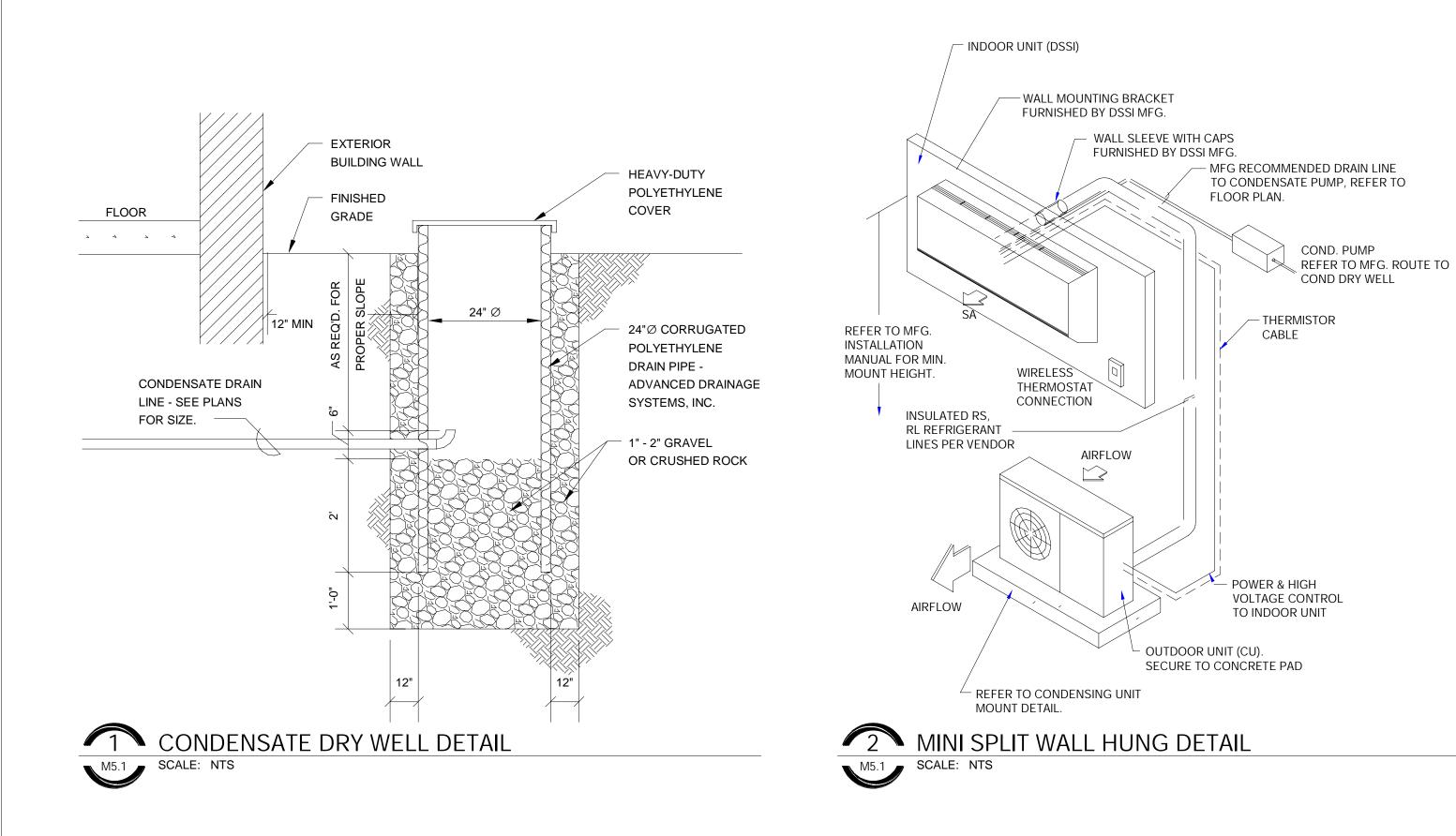


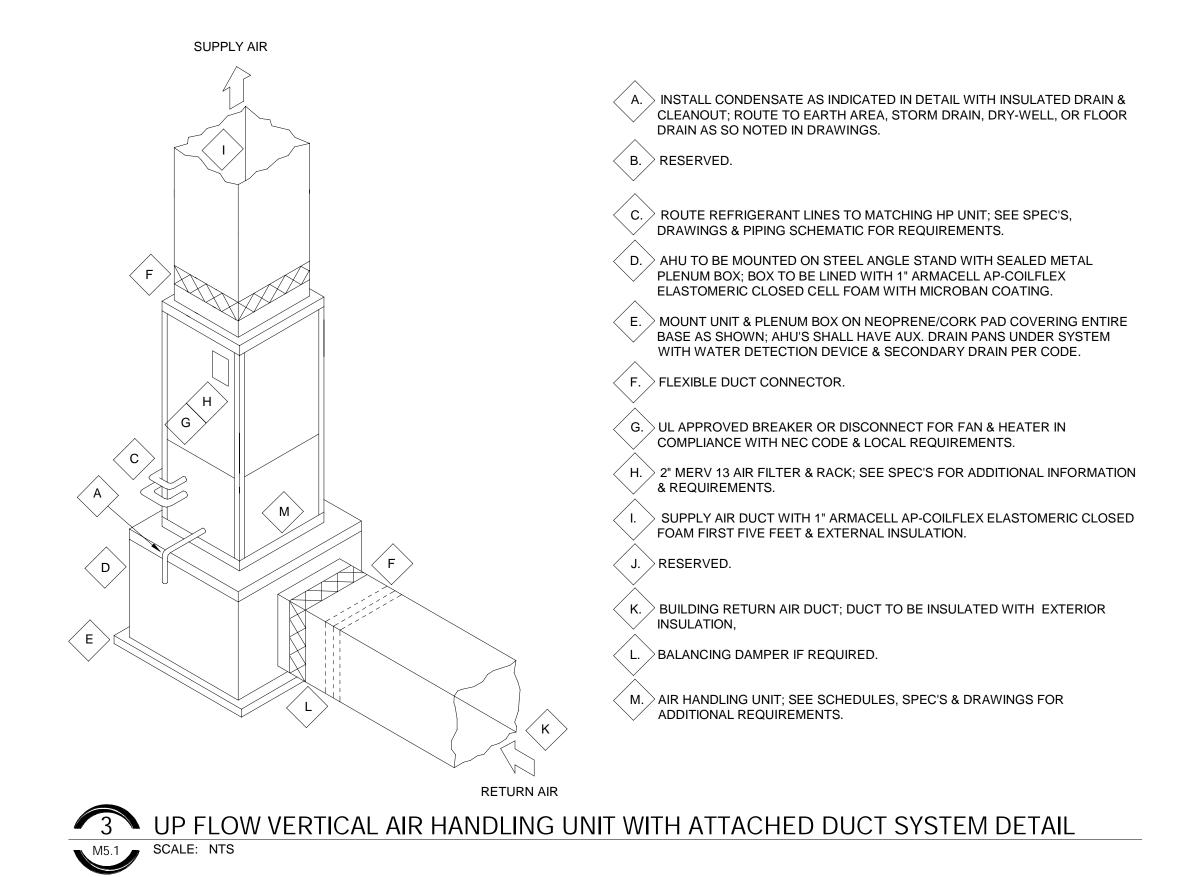


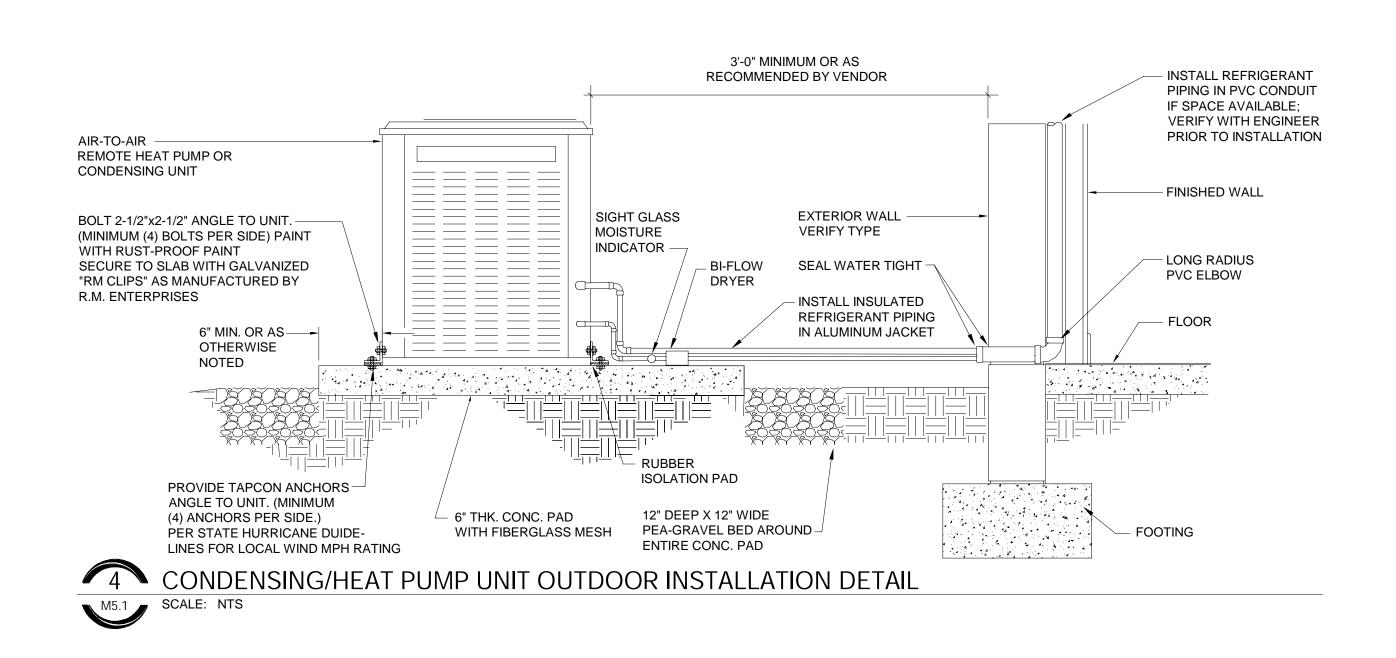
FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT **DESIGN** TALLAHASSEE, FLORIDA

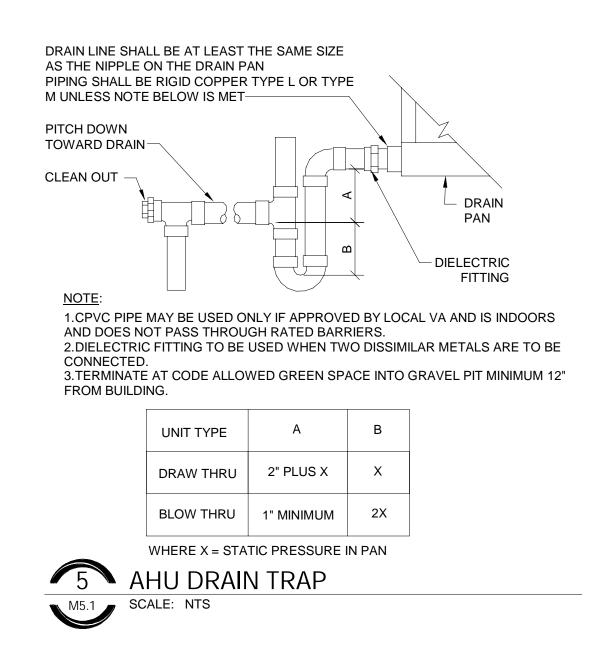
FLOOR PLAN - RENOVATION -**HVAC**

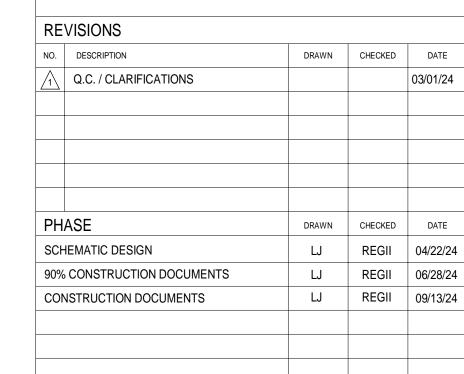














CONSULTANTS:



PROJECT

FLORIDA A&M UNIVERSITY
RATTLER POINT
WASH HOUSE BUILD OUT
DESIGN

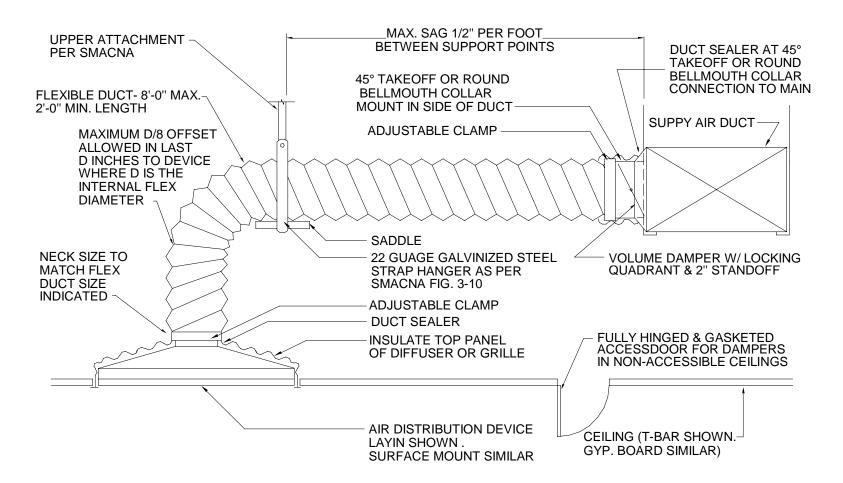
TALLAHASSEE, FLORIDA

SHEET TITLE:

HVAC DETAILS

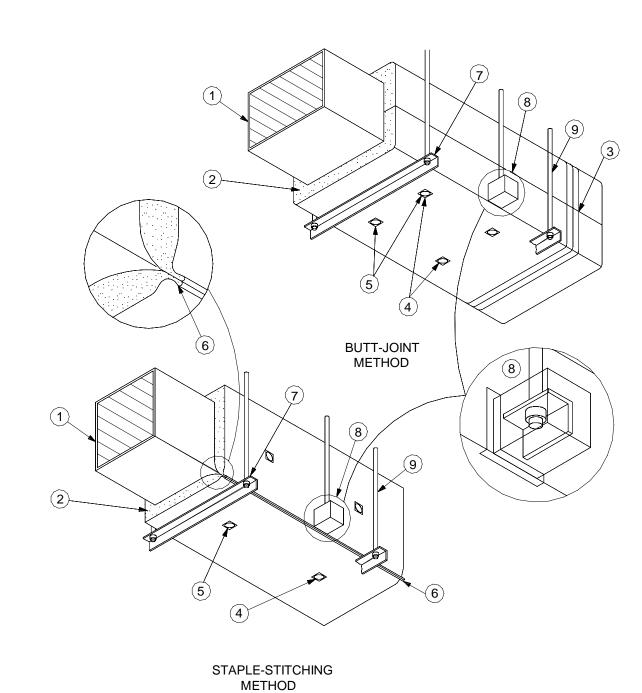
SHEET NUMBER:

M5.1



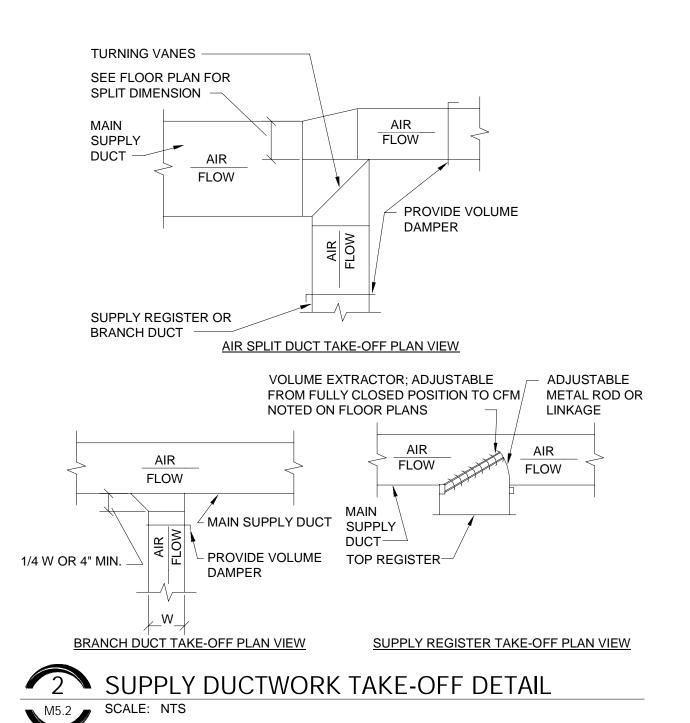
- 1. FLEXIBLE DUCTS SHALL BE ONE PIECE AND SHALL NOT BE SPLICED TOGETHER
- 2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC .
- 3. FLEXIBLE AIR DUCT SHALL NOT EXCEED 8 FT. WHEN EXTENDED . ELBOW RADIUS SIZED FOR NO LESS THAN R/D = 1.0.
- 4. FLEXIBLE AIR DUCT SHALL NOT BE LESS THAN 5 FEET FOR ACOUSTICAL PURPOSES.

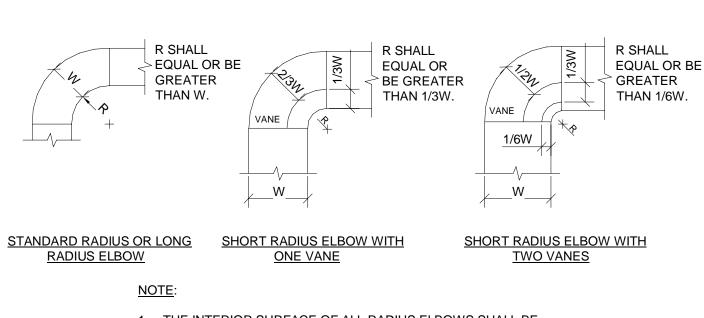




- 1 GALVANIZED METAL DUCT WITH SEALED SEAMS AND JOINTS USING PS-S POLY TYPE NO.P-301 PRODUCT.
- 2 BLANKET INSULATION WITH FACTORY-APPLIED VAPOR-RETARDER JACKET, 2" THICK R-6, 3/4 LB. CU. FT. DENSITY.
- (3) FACTORY LAP ALL SEALS (SEALED WITH ADHESIVE AND/OR STAPLES AND VAPOR-RETARDER TAPE). TAPE ALL JOINTS WITH FASON (SMANCA) ALUMINUM REINFORCED PRESSURE SENSITIVE TAPE; COAT EDGES, SEAMS, AND JOINTS WITH INSUL-COUSTIC PRODUCT BY "SURE-COAT" M1-110" PRODUCT FIRE RESISTANT MASTIC.
- 4 MECHANICAL FASTENERS SUPPORTING INSULATION ON UNDERSIDE OF DUCTS OVER 24" WIDE (SPACED 3" MAXIMUM FROM THE BUTT JOINT).
- (5) VAPOR-RETARDER TAPE OVER TEARS AND PENETRATIONS OF THE VAPOR-RETARDER JACKET TO KEEP AIR TIGHT CONDITION.
- 6 ALTERNATE METHOD OF LAP SEAL LONGITUDINAL JOINT LAPPED AND FOLDED, THEN STAPLED SECURELY IN PLACE.
- (7) HANGER ON EXTERIOR OF INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR-RETARDER TAPE.
- (8) HANGER EMBEDDED IN INSULATION. ENCAPSULATE EXPOSED END OF ANGLE. SEAL WITH ADHESIVE OR VAPOR-RETARDER TAPE.
- 9 COMPLETELY ENCAPSULATE HANGER ROD AND ANGLE. SEAL TOP PENETRATION. ENCAPSULATE AND SEAL STRAP HANGERS IN A SIMILAR MANNER.





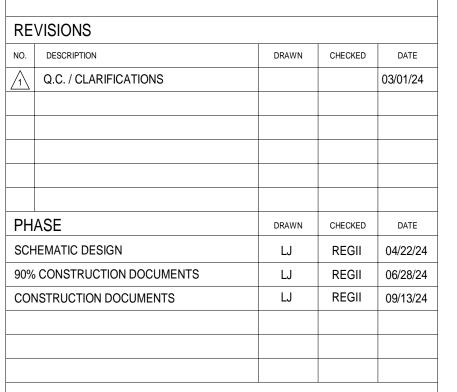


1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

AND FASTENED AS RECOMMENDED BY SMACNA.

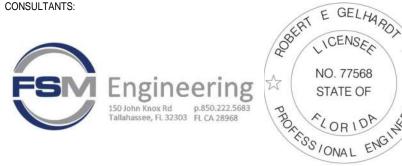
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED







CONSULTANTS:



FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT **DESIGN**

TALLAHASSEE, FLORIDA

HVAC DETAILS

	AIR HANDLER SCHEDULE													
MARK	MFG	MODEL	MATCHING UNIT	TOTAL CFM	OA CFM	EXT. SP (IN WG)	MOTOR HP	EAT (DB/WB)	LAT (DB/WB)	AUX HEATER	VOLTAGE/ PHASE	MIN. CIRCUIT AMPACITY	MAX FUSE AMPS	REMARKS
AHU	LENNOX	25A48	HP	675	0	0.50 in-wg	0.5	80 °F/67 °F	55 °F/54 °F	5000 W	208 V/1	27	30	1-3
DSSI-1	LG	LSN090HSV5	DSSO	200	0	0.00 in-wg	0	80 °F/70 °F	55 °F/54 °F	0 W				4
DSSI-2	LG	LSN090HSV5	DSSO	200	0	0.00 in-wg	0	80 °F/70 °F	55 °F/54 °F	0 W				4
DSSI-3	LG	LSN090HSV5	DSSO	200	0	0.00 in-wg	0	80 °F/70 °F	55 °F/54 °F	0 W				4, 5

1. INSTALL WITH MERV13 FILTER, MANUFACTURER'S THERMOSTAT, & DRAIN PAN OVERFLOW SWITCH.
2. PROVIDE SINGLE POINT POWER CONNECTION WITH INTEGRAL DISCONNECT.
3. INCLUDE 5 KW ELECTRIC HEAT KIT. PTRAP AND ROUTE CONDENSATE TO DRYWELL.

4. INDOOR UNIT POWERED BY OUTDOOR. COOLING ONLY UNIT. CONDENSATE TO X87-721 BLUE DIAMOND PUMP, DISCHARGE AT DRYWELL. HARDWIRED PROGRAMMABLE THERMOSTAT BY MANUFACTURER.

5. DSSI-3 IS BACKUP IN THE EVENT 1 OR 2 MALFUNCTIONS, N+1 REDUNDANCY. SET THERMOSTAT 3 AT LEAST 3 DEGREES ABOVE THE OTHERS.

	OUTDOOR UNIT SCHEDULE											
MARK	MODEL NUMBER	MATCHING UNIT	NOMINAL TON	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	SEER(EER)	HSPF(COP)	VOLTAGE/ PHASE	MCA	MOCP	REMARKS
DSSO-1,2,3	LSU090HSV5	DSSI	0.75	9000.0 Btu/h	7500.0 Btu/h	0.0 Btu/h	23.2(14.5)	10.2(3.7)	208 V/1	10 A	15 A	1-4
HP	23A12	AHU	2	23500.0 Btu/h	18200.0 Btu/h	13000.0 Btu/h	15.6(13.1)	7.8(3.86)	208 V/1	15 A	25 A	1-3

1. SINGLE-POINT POWER, INTEGRAL DISCONNECT.
2. FOLLOW EQUIPMENT MANUFACTURER'S GUIDELINES FOR UNIT CLEARANCE AND REFRIGERANT LINE SIZING.
3. COMPRESSOR SOUND BLANKET, CRANKCASE HEATER, LOW AMBIENT KIT. SECURED FOR LOCAL WIND RATING.
4. UNITS SHALL BE ENERGIZED BY BOTH PRIMARY AND BACKUP POWER SYSTEMS.

	AIR DISTRIBUTION DEVICE SCHEDULE										
MARK	SERVICE	MFG	MODEL	CFM RANGE	NECK SIZE	FACE SIZE	DETAILS				
RAG	RETURN	PRICE	APDDR	105-210	8"ø	2' - 0"x2' - 0"	LAYIN OR SURFACE MOUNTED; ALUMINUM MATERIAL; PERFORATED FACE; DUCTED RETURN;				
SAG	SUPPLY	PRICE	SCD	100-250	8"ø	2' - 0"x2' - 0"	4 WAY DIRECTIONAL; LAYIN OR SURFACE MOUNTED DIFFUSER; ALUMINUM MATERIAL				

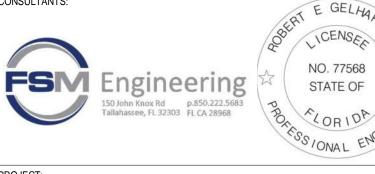
NATURAL VENTILATION REQUIREMENT SCHEDULE						
Occupied Space Name	Floor Area (ft²)					
101 MAIL	163					
102 STORAGE	211					
103 STORAGE	391					
103A STORAGE	48					
104 IT ROOM	158					
Total	971					
4% Minimum Openable Area (FBC Mech 402.2)	39					

NATURAL VENTILATION FULFILLMENT SCHEDULE					
Direct Outdoor Openings Open Area (ft²)					
DOORS (3.5x6.5) x4	91				
Total Openable Area	91				

BUILDING PRESSURIZATION TABLE								
MARK	OA CFM	AIR BALANCE						
AHU	675	675	0	0	0			
DSSI-1	200	200	0	0	0			
DSSI-2	200	200	0	0	0			
DSSI-3	200	200	0	0	0			
TOTAL	1275	1275	0	0	0			

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
/1	Q.C. / CLARIFICATIONS			03/01/24
PHA	ASE	DRAWN	CHECKED	DATE
SCH	EMATIC DESIGN	LJ	REGII	04/22/2
90%	CONSTRUCTION DOCUMENTS	LJ	REGII	06/28/24
CON	ISTRUCTION DOCUMENTS	LJ	REGII	09/13/2





FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN TALLAHASSEE, FLORIDA

HVAC SCHEDULES

PLUMBING LEGEND		ABBR	REVIATIONS
120 HOT WATER SUPPLY	DHW	AAV	AIR ADMITTANCE VALVE
HOT WATER RETURN	—HWR—	AFF	ABOVE FINISHED FLOOR
COLD WATER SUPPLY	DCW	AHAP	AS HIGH AS POSSIBLE
SANITARY	SAN	BFP BF	BACK FLOW PREVENTOR BELOW FLOOR
KITCHEN GREASE SANITARY	GW	BFF	BELOW FINISHED FLOOR
STORM	ST	BG	BELOW GRADE
STORM OVERFLOW	OF	BOD	BASIS OF DESIGN
VENT PIPING	VENT	С	CONDENSATE
CONDENSATE	с	CO	CLEAN OUT
ELBOW, TURNED DOWN	DN &	DCW	COMBINATION WASTE AND VENT DOMESTIC COLD WATER
ELBOW, TURNED UP	UP 0	DHW	DOMESTIC HOT WATER
ELBOW, 90°	ţ+-	DN	DOWN
CONNECTION, TOP		ECO	EXTERIOR CLEANOUT
CONNECTION, BOTTEM		EWC	ELECTRIC WATER COOLER
CONNECTION, SIDE	1	EWH	ELECTRIC WATER HEATER
CAP, AIR AND WATER TIGHT		EX FC	EXISTING FLOW CONTROL VALVE
· · ·		FCO	FLOOR CLEANOUT
VENT THROUGH ROOF	RCP-#	FD	FLOOR DRAIN
RECIRCULATION PUMP		GWH	GAS WATER HEATER
CHECK VALVE / BACKFLOW PREVENTOR	<u> </u>	— НВ	HOSE BIBB
BALL VALVE	151	HD	HUB DRAIN
FLOW CONTROL VALVE	<u> </u>	HWR	HOT WATER RETURN
WATER METER	<u> M</u>	IE IN	INVERT ELEVATION
PRESSURE REGULATOR	R	IM IRP	ICE MAKER VALVE BOX IN-LINE RECIRCULATION PUMP
SOLENOID SHUTOFF VALVE	<u>s</u>	L	LAVATORY
HOSE BIBB WITH VACUUM BREAKER	<u>HB-#</u> ————————————————————————————————————	MS	MOP SINK
AIR ADMITTANCE VALVE (BOD: STUDOR)	- AAV	PF	PLUMBING FIXTURE
UNION	-	SAN	SANITARY WASTE
WALL CLEANOUT	wco ⊩⊃–	SH	SHOWER
FLOOR CLEANOUT	FCO⊗—	SK TYP	STAINLESS STEEL SINK TYPICAL
FLOOR DRAIN	<u>FD</u> Ø:	TMV	THERMOSTATIC MIXING VALVE
FLOOR SINK	<u>FS</u>	UNO	UNLESS NOTED OTHERWISE
EXISTING SYSTEM PIPING	EX ###	UR	URINAL
TO BE DEMOLISHED	·/// EX###////	VTR	VENT THROUGH ROOF
DEMOLITION KEYNOTE	[#]	wc	WATER CLOSET
RENOVATION KEYNOTE	#	WCO	WALL CLEAN OUT
CONNECT TO EXISTING	<u> </u>	WHA	WALL HYDRANT WATER HAMMER ARRESTER
LIMITS OF DEMOLITION	\Box	WHY	FREEZE PROOF WALL HYDRANT
ACCESS PANEL	AP	XT	EXPANSION TANK
MIN. INVERT ELEVATION	<u>(/AP\</u> MIN. I.E. → 36" B.F.F.		
	36" B.F.F. Ψ \ ALL MAY NOT APPLY		

POTABLE WATER

APPLICABLE EXCEPT AT IMMEDIATE FIXTURE.

1.ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH THE PLUMBING CODE AND VERIFIED BY WRITTEN REPORT FROM THE STATE BOARD OF HEALTH. 2.ALL PLUMBING PIPING SHALL BE CONCEALED IN FLOORS, WALLS, OR ABOVE CEILINGS AS

3.PROVIDE HANGERS FOR SUPPLY PIPING AT A MAXIMUM SPACING OF 3 FEET.

TEMPERED HOT WATER), BRONZE BODY WITH THREADED OR SOLDER ENDS.

4.BALL VALVES 1/4" THRU 2" SHALL BE TWO PIECE - 600 WOG, TEFLON SEATS, ANSI 316 STAINLESS STEEL BALL AND STEM (EXTENSION STEM ON INSULATED HOT WATER AND

5.DURING CONSTRUCTION ALL PRESSURE PIPING SYSTEMS SHALL RECEIVE A HYDROSTATIC TEST OF 1-1/2 TIMES THE OPERATING PRESSURE FOR A PERIOD OF NOT LESS THAN EIGHT (8) HOURS, NO LEAKAGE EVIDENT DURING THE TEST PERIOD IS ALLOWED. NOTIFY THE ARCHITECT AND ENGINEER OF RECORD 24 HOURS IN ADVANCE OF ANY TESTING SO THAT THEY MAY OBSERVE IF THE NEED IS CALLED FOR. PIPING SYSTEMS, EQUIPMENT, SPECIALTIES, PUMPS, TRAPS, VALVES, STRAINERS, ETC. SHALL BE INSPECTED AND TESTED FOR PROPER FUNCTIONALITY AT THE CONCLUSION OF CONSTRUCTION AND ANY LEAKAGE OR MALFUNCTIONS SHALL BE REPAIRED.

6.MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.

7.ALL PRESSURE PIPING SHALL BE INSTALLED ABOVE CEILING AND IN WALLS UNLESS NOTED OTHERWISE.

8.BELOW GRADE

- 10.1. PIPING SHALL BE COATED WITH HEAVY TROWEL GRADE LION OIL CO. NOKORODE
- SEALKOTE OR APPROVED EQUAL. 10.2. UNDERGROUND SERVICE PIPING SHALL BE COPPER TUBING.

9.1.2. ALL PIPES AND FITTINGS SHALL CONFORM TO ASTM 1784.

9.PIPING SPECIFICATIONS

- 9.1.ABOVE GRADE DOMESTIC COLD WATER SUPPLY PIPING SHALL BE HIGH IMPACT CPVC WITH SOLVENT WELD FITTINGS.
- 9.1.1. PROVIDE TRANSITION FITTINGS AS REQUIRED TO INSTALL VALVES, FIXTURE STOPS, EQUIPMENT AND OTHER COMPONENTS.
- 9.2. PIPING LOCATED IN RETURN AIR PLENUMS SHALL BE TYPE L HARD COPPER TUBE
- OR CPVC WITH 1" THICK FIRE WRAP INSULATION SEALED TO PROVIDE FS/SD=25/50. 9.3. EXPOSED PIPING SHALL BE TYPE L HARD COPPER TUBE PAINTED TO MATCH
- ADJACENT ARCHITECTURAL SURFACE. 10.INSULATION SPECIFICATIONS
- 10.1.INSULATE COLD WATER SUPPLY PIPING IN EXTERIOR WALLS AND ATTIC AS WELL AS ALL HOT WATER WITH 1" IMCOLOCK PRE-SLIT, PRE-GLUED INSULATION. INSULATE FITTINGS WITH MITERED CUT PIECES OF IMCOLOCK, 1" INSULATION.
- 10.2. THERE SHALL BE NO EXPOSED HOT WATER SUPPLY PIPING EXCEPT WITHIN MECHANICAL OR EQUIPMENT ROOMS.

CODE REFERENCE (ALL MAY NOT APPLY)

THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

FBC,BUILDING FLORIDA BUILDING CODE 8TH EDITION FBC,PLUMBING FLORIDA BUILDING CODE 8TH EDITION FBC, EXISTING BUILDING FLORIDA BUILDING CODE 8TH EDITION

FBC, FUEL GAS FLORIDA BUILDING CODE 8TH EDITION

FBC, ENERGY CONSERVATION FLORIDA BUILDING CODE 8TH EDITION

FLORIDA FIRE PREVENTION CODE, 2023 8TH EDITION

NFPA 54 NATIONAL FUEL GAS CODE NFPA 101

LIFE SAFETY CODE NFPA 101A GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY

NFPA 101B CODE FOR MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES

NFPA 900 BUILDING ENERGY CODE AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

UNDERWRITERS LABORATORIES THESE CODE AND STANDARDS SHALL BE CONSIDERED A MINIMUM REQUIREMENT. THE CONTRACTOR SHALL NOT RELIEVED FROM PROVIDING HIGHER GRADE MATERIALS,

PRODUCTS AND WORKMANSHIP WHICH MAY BE SPECIFIED WITHIN THESE DOCUMENTS

AMERICAN WITH DISABILITIES ACT

WATER HAMMER ARRESTOR SCHEDULE

FIXTURE UNITS 1-11 12-32 33-60 61-113 114-154 155-330 JR SMITH M#: 5005 5010 5030 5040 5050 5020

SUBMITTAL REQUIREMENTS

1.USE OF AN APPROVAL STAMP ON SUBMITTAL DOCUMENTS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS.

2.THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTAL ITEMS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.

3.CONTRACTOR SHALL SUPPLY TO THE ARCHITECT SUBMITTALS ON THE FOLLOWING WHERE APPLICABLE (ALL MAY NOT APPLY):

- 3.1.PLUMBING FIXTURES
- 3.2. PIPE AND FITTINGS 3.3. INSULATION MATERIALS
- 3.4. PLUMBING ACCESSORIES AND SPECIALITIES 3.5. VALVES
- 3.6.HOT WATER HEATER

PLUMBING GENERAL NOTES

1.LOCATIONS OF ANY WASTE AND SUPPLY PIPING SHOWN ARE ONLY APPROXIMATE. THE ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS | PLUMBING CONTRACTOR SHALL VERIFY THESE LOCATIONS BEFORE PROCEEDING WITH

> 2.ALL PLUMBING PIPE SHALL BE RUN STRAIGHT, SQUARE, AND LEVEL. NO SAGGING OF PLUMBING PIPING SHALL BE ACCEPTED.

3.ALL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. PIPING 2-1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.

4. VENT PIPING SHOWN ON FLOOR PLAN IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.

5.CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR

6.VALVES AND FITTINGS SHALL BE OF THE SAME SIZE AS THE LINE IN WHICH THEY ARE

7.ALL WATER SANITARY WASTE, VENT AND SUPPLY PIPING SHALL BE INSTALLED AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGE IN SIZING.

8.SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, DIMENSIONS AND ADDITIONAL REQUIREMENTS NOT COVERED ON THESE DRAWINGS.

9.PIPING SHALL NOT BE RUN ABOVE ELECTRICAL OR SERVER EQUIPMENT, COORDINATE WITH FIELD CONDITIONS.

10.DO NOT PENETRATE WALL FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES. WHERE ABSOLUTELY NECESSARY, ALL PIPES PENETRATING BEARING WALL OR FOOTING MUST BE SLEEVED AND IN A LOCATION APPROVED BY THE STRUCTURAL ENGINEER.

11.CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES OR ALL FIXTURES INCLUDED IN THESE CONTRACT DOCUMENTS.

12.WALL BRACKETS, HANGERS, SUPPORTS, ETC. SHALL BE PROVIDED WHERE REQUIRED IN | PROVIDED AT NO ADDITIONAL COST. ACCORDANCE WITH THE BEST STANDARD PRACTICE OF THE TRADE AND AS PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED TO TRANSMIT LOADS TO THE MAIN STRUCTURE WHERE REQUIRED. CPVC PIPING SUPPORTS SHALL BE 3'-0" ON CENTER FOR 1/2" THRU 1" AND 4'-0" ON CENTER FOR 1-1/2" AND LARGER. ALL EXPOSED SUPPORTS SHALL BE HOT DIPPED GALVANIZED OR FIBERGLASS REINFORCED "UNISTRUT" TYPE INCLUDING HARDWARE.

13.POWER WIRING, PANELS, TRANSFORMERS, AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, AND PANELS SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. ALL MOTOR STARTERS REQUIRED FOR ANY PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

14.INSTALL ACCESS PANELS (MINIMUM 18x18) WHERE EQUIPMENT REQUIRING ACCESS RESIDES ABOVE AN INACCESSIBLE CEILING TYPE.

15.ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, CLEANOUTS, ETC., CONCEALED | GUIDELINES. IN WALLS SHALL BE PROVIDED WITH AN ACCESS PANEL, ZURN MODEL ZN-1460 OR APPROVED EQUAL

16.ALL CONCEALED PIPING IN CHASE AREAS SHALL BE SUPPORTED WITH A PIPING SUPPORT SYSTEM, SUMNER POSIFIX, STAKFIX AND CHANNEL OR APPROVED EQUAL.

17.PURGE, CLEAN, DISINFECT & TEST WATER PIPING SYSTEMS. SUBMIT REPORT & WATER SAMPLES TO A.H.J. USE PROCEDURE PRESCRIBED BY A.H.J., OR IF METHOD NOT PRESCRIBED USE AWWA C651 OR AWWA C652.

18. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES. REFER TO FPC 604.9.

GENERAL NOTES

DRAWINGS FOR ALL DIMENSIONS.

1.THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.

2.THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND OR PROJECT CONDITIONS.

3.THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RESPONSIBLE CHARGE OF THE GIVEN DISCIPLINE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED UNLESS EMBOSSED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ELECTRONIC COPIES.

4.CONFLICTS BETWEEN THIS SET OF DRAWINGS AND THE CONTRACT SPECIFICATIONS SHALL BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

5.ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD.

6.PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING OR OTHER WALL MOUNTED FURNISHINGS.

7.PLANS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO SHOW THE GENERAL SCOPE OF THE WORK TO BE PERFORMED. REFER TO ARCHITECTURAL AND STRUCTURAL

8.DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE

9.THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING EQUIPMENT TO ENSURE THE EQUIPMENT SPECIFIED WILL WORK FOR THE SPACES PROVIDED. FINAL DIMENSIONS OF SYSTEMS SHOWN ON THESE PLANS SHALL BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS TO FIT IN SPACES PROVIDED AND AT NO COST TO THE OWNER.

10.THE CONTRACTOR IS RESPONSIBLE FOR ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED TO BRING INTO THE BUILDING AND EQUIPMENT

11.ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL BE PERFORMED BY EXPERIENCED TRADESMEN WHO ARE TRAINED, EXPERIENCED, AND SKILLED IN THE TASKS INCIDENTAL TO THE PROJECT.

12.ALL WORK SHALL COMPLY WITH APPLICABLE OSHA AND EPS REGULATIONS AND

13.THE CONTRACTOR PERFORMING WORK ON THIS PROJECT WILL BE RESPONSIBLE FOR REGULARLY CLEANING THE WORK AREA OF ANY DEBRIS ASSOCIATED WITH THE WORK BEING PERFORMED. THE SITE SHALL BE CLEAN OF ALL CONSTRUCTION DEBRIS AT THE COMPLETION OF THE JOB, BEFORE FINAL PAYMENT IS MADE.

14.REASONABLE PRECAUTIONS SHALL BE MADE FOR SAFETY AND HEALTH INCLUDING BUT NOT LIMITED TO WARNING SIGNS, SAFETY PRECAUTIONS, AND BARRICADES FOR

15.COORDINATE ALL DEMOLITION, CLEANING, AND CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE OWNER A FULL CONSTRUCTION SCHEDULE.

16.CONTRACTOR SHALL BE HELD TO PROVIDED SCHEDULE. THEY SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT MANPOWER AND EQUIPMENT TO COMPLETE THE WORK IN THE TIME INDICATED.

17.THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS. THE LOCATION OF STORAGE SHALL BE RESTRICTED SPECIFICALLY TO THE AREA ALLOTTED BY THE OWNER.

18.ALL ITEMS INSTALLED UNDER THE SCOPE OF THIS PROJECT SHALL BE NEW, CLEAN, AND FREE OF DEFECTS.

19.IF DRAWING CHANGES ARE NEEDED FOR INSPECTION DUE TO FIELD CHANGES MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL OF THE ENGINEER AND AGREED UPON TERMS, THEN THE CONTRACTOR SHALL PAY HOURLY RATES TO THE ENGINEER OF RECORD FOR MAKING NECESSARY CHANGES.

20.SUPPORTS, HANGERS, WIRING, AND PIPING SHALL BE INSTALLED IN A NEAT FASHION AND IN AN ORDERLY APPEARANCE.

21.ALL ROOF EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 120 MPH WIND

22.PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED. 23.CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL PARTITIONS LABELED WITH A SPECIAL LISTING ON THE ARCHITECTURAL PLANS. THIS INCLUDES FIRE, SMOKE ACOUSTICAL AND OTHER UL WALL OR CEILING ASSEMBLIES.

24.STRUCTURAL PENETRATIONS INCLUDING BUT NOT LIMITED TO WALL, FLOOR, OR BEAM SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL BEAM SLEEVES AND REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND

INSTALLED BY THE CONTRACTOR. 25.CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO

26. VALUE ENGINEERING OR CHANGES TO PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND RESUBMITTED THROUGH THE BUILDING DEPARTMENT PRIOR TO BEING INSTALLED.

THE WARRANTIES PROVIDED BY THE MATERIAL SUPPLIES AND MANUFACTURERS.

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P0.1	PLUMBING NOTES & LEGEND
P1.1	FLOOR PLAN - PLUMBING - DEMOLITION
P1.2	FLOOR PLAN - PLUMBING - RENOVATION
P5.1	PLUMBING SCHEDULES & DETAILS

DESCRIPTION DRAWN CHECKED DATE Q.C. / CLARIFICATIONS 03/01/24 PHASE DRAWN CHECKED DATE SCHEMATIC DESIGN REGII 04/22/24 90% CONSTRUCTION DOCUMENTS REGII 06/28/24 LJ CONSTRUCTION DOCUMENTS LJ REGII 09/13/24



CONSULTANTS:

REVISIONS



PROJECT

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

PLUMBING NOTES & LEGEND

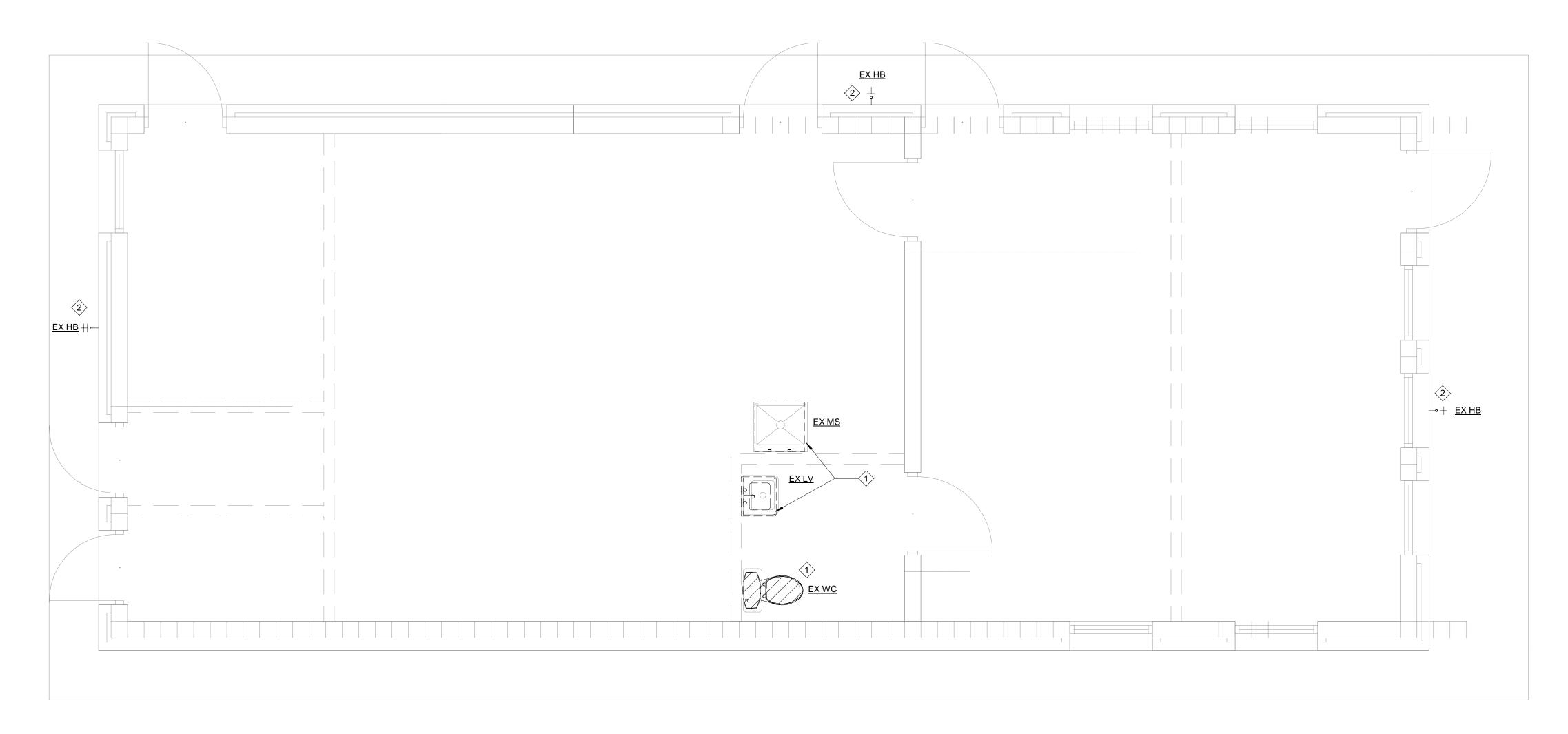
SHEET NUMBER

E GELHAD

NO. 77568

STATE OF

DEMOLITION KEYED NOTES DEMOLISH ALL EXISTING PLUMBING FIXTURES. CAP SANITARY AND VENT PIPING IN A CONCEILED LOCATION AND ABANDON. DEMOLISH EXISTING ACCESSIBLE PRESSURE PIPING AND CAP AND ABANDON. EXISTING PIPING SERVING HOSE BIB SHALL BE DEMOLISHED, EXISTING HOSE BIBB FIXTURE ON THE EXTERIOR OF THE BUILDING SHALL REMAIN AND BE REUSED.



1 FLOOR PLAN - PRESSURE - DEMOLITION
P1.1 Scale: 3/8" = 1'-0"

PHASE	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN	LJ	REGII	04/22/24
90% CONSTRUCTION DOCUMENTS	LJ	REGII	06/28/24
CONSTRUCTION DOCUMENTS	LJ	REGII	09/13/24
0554 DI /	UDOTONI		20

DRAWN CHECKED DATE



REVISIONS

NO. DESCRIPTION

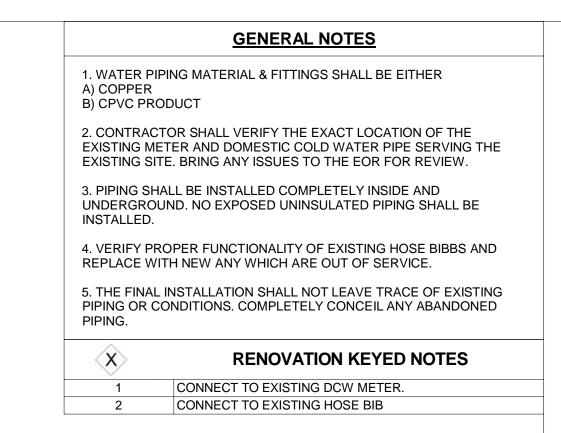
Q.C. / CLARIFICATIONS

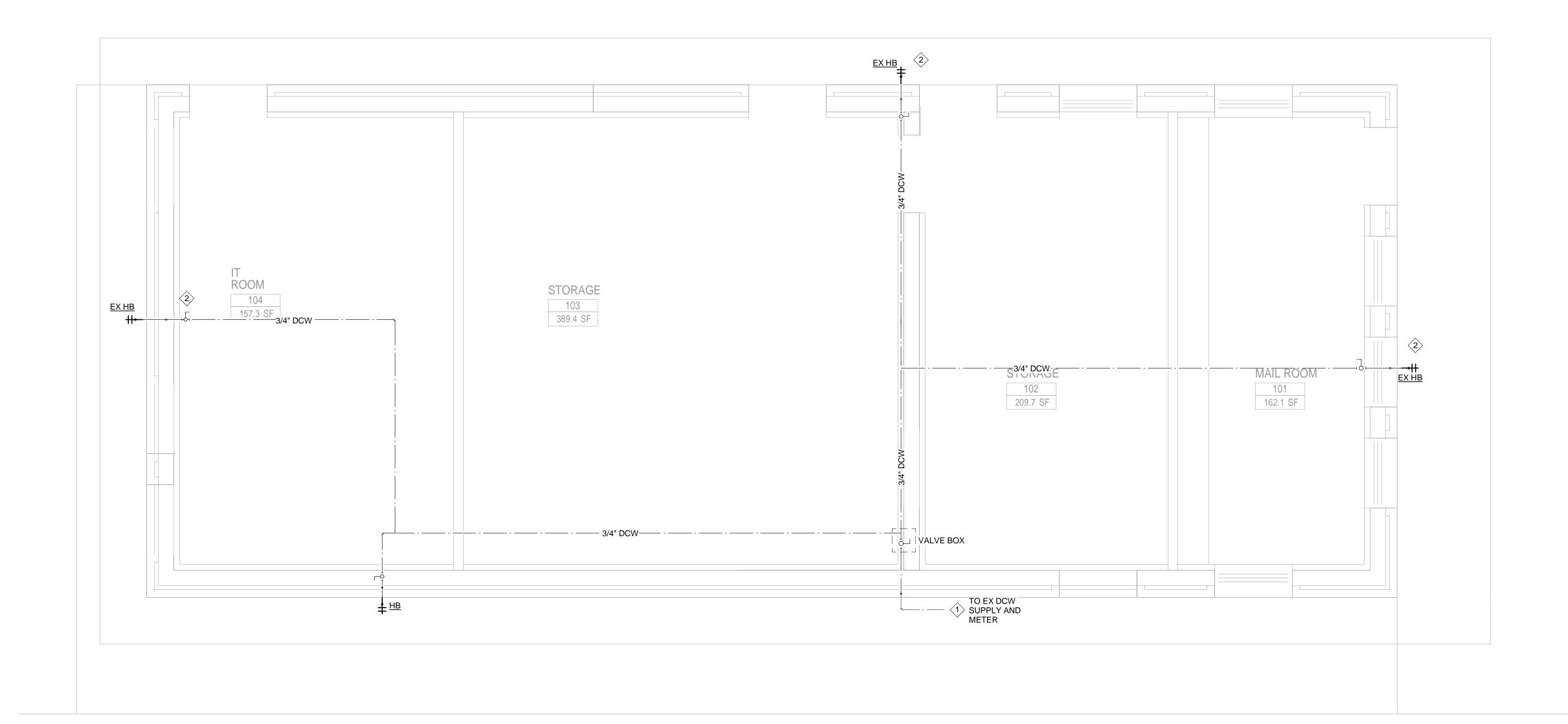


FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN TALLAHASSEE, FLORIDA

FLOOR PLAN - PLUMBING -**DEMOLITION**





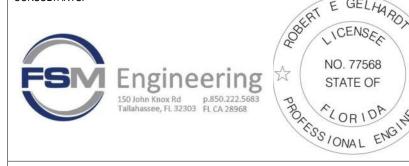


1 FLOOR PLAN - RENOVATION
P1.2 Scale: 3/8" = 1'-0"

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/2
PH	ASE	DRAWN	CHECKED	DATE
SCH	IEMATIC DESIGN	LJ	REGII	04/22/
90%	CONSTRUCTION DOCUMENTS	LJ	REGII	06/28/
CON	ISTRUCTION DOCUMENTS	LJ	REGII	09/13/



CONSULTANTS



PROJECT:

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN TALLAHASSEE, FLORIDA

EET TITLE:

FLOOR PLAN - PLUMBING - RENOVATION



SHEET NUMBER:

P1.2

	PLUMBING FIXTURE SCHEDULE									
MARK	TYPE	MFG/MODEL	FIXTURE DESCRIPTION	CW	HW	SAN	IMAGE			
НВ	HOSE BIB	WOODFORD/24	ANTI-SYPHON VACUUM BREAKER HOSE BIB	1/2"	0"	0"				

-3/4" WATER PIPING

BALL VALVE IN RISER-

SERVICE WATER IN WALL

HOSE BIBB DETAIL

P5.1 SCALE: NTS

FINISHED WALL

3/4" HOSE BIBB W/ SELF DRAINING VACUUM BREAKER

24" MINIMUM AFF

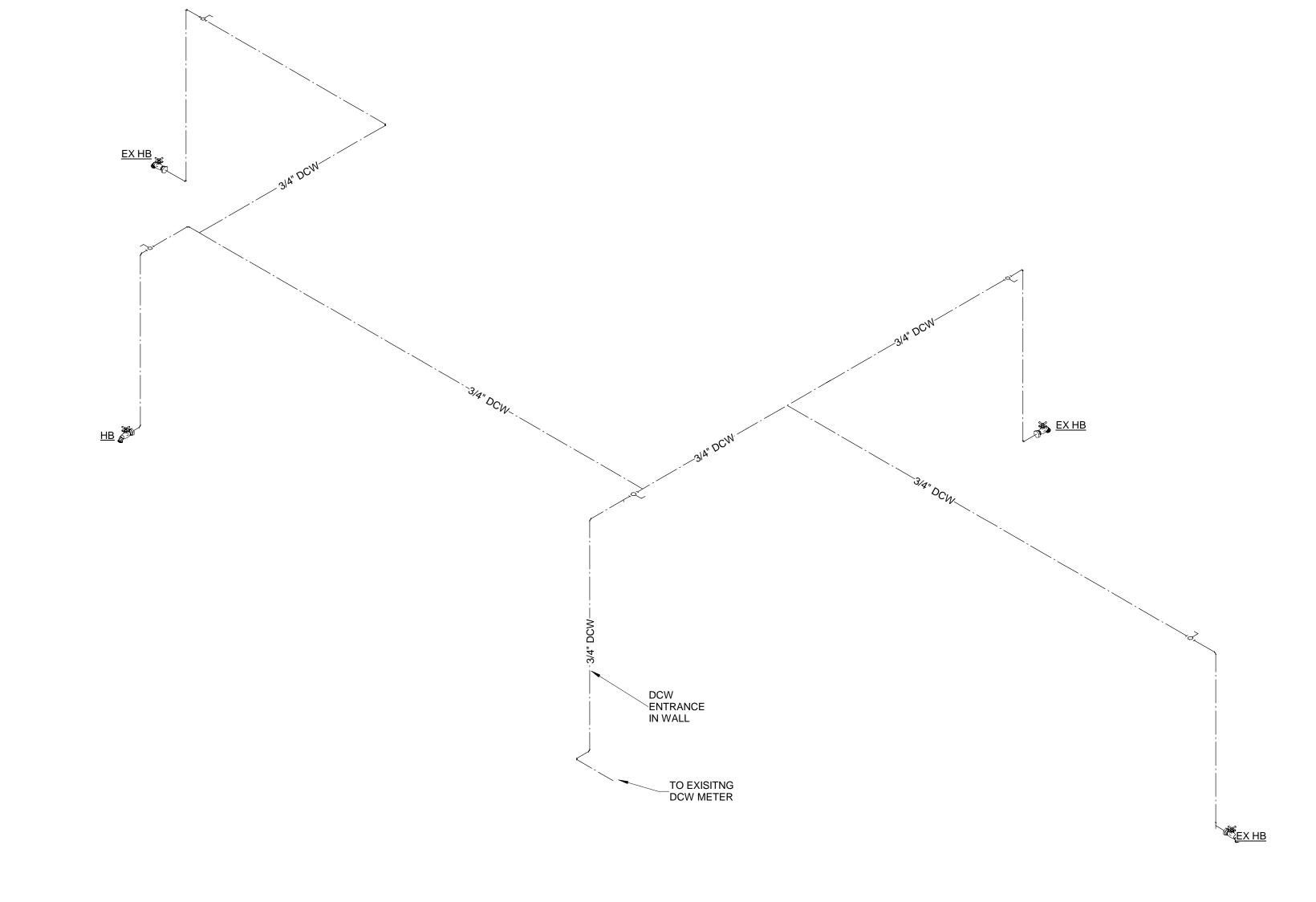
FINISHED FLOOR

	PLUMBING FIXTURE CALCULATION								
MARK	QUANTITY	CWFU	TOTAL CWFU	HWFU	TOTAL HWFU	TWFU	COMBINED FU	WFU	TOTAL WFU
EX HB	3	0.5	1.5	0	0	0.5	1.5	0	0
НВ	1	0.5	0.5	0	0	0.5	0.5	0	0
TOTAL	4	•	2		0	1	2	•	0

FIXTURE UNITS BASED ON TABLES FBC-P 709 & E103.3.
OCCUPANCY IS LOW ENOUGH TO BE EXEMPT FROM MOP SINK REQUIREMENT.

BUILDING SERVICE PIPING							
TYPE	FU	MIN SIZE	DEV LENGTH				
DCW METER	2	3/4"					
DCW DISTRIB.		3/4"	140'				
SEWAGE	0	N/A					
DE144 D140							

REMARKS: BRING ANY ISSUES TO EOR. RESIDUAL PRESSURE: ASSUMED 35 PSI WATER LINE SIZED PER FBC-P TABLE 201.1 SEWER SIZED PER FBC-P TABLE 710.1(1)

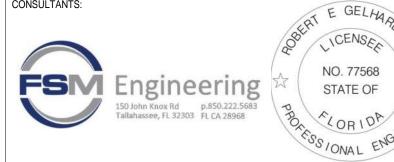






^				
/1\ Q.C. / CLA	RIFICATIONS			03/01/24
PHASE		DRAWN	CHECKED	DATE
SCHEMATIC DE	SIGN	LJ	REGII	04/22/24
90% CONSTRU	CTION DOCUMENTS	LJ	REGII	06/28/24
CONSTRUCTIO	N DOCUMENTS	LJ	REGII	09/13/24





FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN TALLAHASSEE, FLORIDA

PLUMBING SCHEDULES & **DETAILS**

2.BASIS OF DESIGN PROTOCOLS: DESIGN IS BASED ON LISTED MANUFACTURER MENTIONED ON ALL ELECTRICAL AND ALL SPECIAL SYSTEM DRAWINGS INCLUDING BUT NOT LIMITED TO VARIOUS ELECTRICAL EQUIPMENTS, DEVICES, LIGHT FIXTURES, LIGHTING CONTROLS, AND ALL SPECIAL SYSTEM DEVICES. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EQUAL PRODUCTS SHALL MEETS OR EXCEEDS THE DESIGN INTENT, PERFORMANCE, OUTLINE DIMENSION, WEIGHT ETC. EQUAL PRODUCT SHOP SUBMITTALS SHALL BE REJECTED UNLESS CONTRACTOR PROVIDES WRITTEN STATEMENT INDICATING IT MATCHES 100% PERFORMANCE SPECS AND ALL ABOVE CRITERIA. EQUAL PRODUCT SHOP SUBMITTAL NOT MEETING ABOVE CRITERIA SHALL BE REVIEWED AND/OR SELECTED EQUAL PRODUCTS REQUIRES RE-DESIGN THAT WILL BE AT THE COST TO THE CONTRACTOR INCLUDING DELAY OF PROJECT DUE TO THIS PROCESS. ALTERNATIVELY EQUAL PRODUCTS SHALL BE SUBMITTED AND APPROVED FROM OWNER BEFORE BID APPROVAL AND OWNER APPROVAL PROOF SHALL BE SUBMITTED ALONG WITH SHOP SUBMITTAL FOR REVIEW.

THE WORK SHALL COMPLY WITH ALL APPLICABLE, MUNICIPAL STATE, NATIONAL CODES, AND ALL OWNER APPLICABLE DESIGN MANUALS STANDARDS REQUIREMENTS. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT

BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR

ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.) NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES, ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW (EXCEPT WHERE OTHERWISE NOTED) AND SHALL BEAR THE MARK OF NATIONALLY RECOGNIZED TESTING LABORATORY. WHEN APPLICABLE. ALL EQUIPMENT OF THE SAME TYPE AND CAPACITY SHALL BE BY THE SAME MANUFACTURER.

4. DRAWINGS AND SPECIFICATIONS:

REGULATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL UNLESS OTHERWISE CLARIFIED BY OWNER.

CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL ELECTRICAL, ALL PLUMBING, AND ENTIRE PROJECT MANUAL CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.

5.INTERPRETATION OF THE DOCUMENTS:

CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS. CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS ORSPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE OWNER FOR CLARIFICATION AND APPROVAL BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THEIR BID, IT WILL NOT BE CONSIDERED EXTRA.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, IN A NEAT AND WORKABLE MANNER CONSISTENT WITH RECOGNIZED GOOD PRACTICE, AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

ANY CHANGES TO THE CONTRACT REQUIREMENTS MUST BE APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL KEEP UP-TO-DATE AS-BUILT DRAWINGS, ON-SITE, AVAILABLE FOR INSPECTION AT ANY TIME OF THE EXACT NATURE OF WORK, INCLUDING ALLOWABLE DEVIATIONS FROM THE CONTRACT DRAWINGS, FOR THE PURPOSE OF RECORD DOCUMENTS.

6.ELECTRICAL DRAWINGS THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, VERIFY CLEARANCES AND ROUGH-INS, AND OBTAIN ALL APPROVALS PRIOR TO STARTING WORK.

7.SITE EXAMINATION BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE THE PREMISES. AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THIS VISIT SHALL ONLY BE ALLOWED AS PER THE OWNER SCHEDULED WALK THROUGH. THE SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH A VISIT HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH VISIT BEEN MADE.

CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK, AND FULLY INFORM THEM SELF AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE OWNER AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK AND THE WORK OF OTHER TRADES. OBTAIN CLARIFICATION(S) PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

8. COORDINATION WITH OTHER TRADES: THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF GENERAL, ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPES OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS DAMPERS, LIFTS, AND OTHER SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL CHECK ALL ARCHITECTURAL STRUCTURAL, AND MECHANICAL TRADES WORK FOR POSSIBLE INTERFERENCE CAUSED BY CONDITIONS IN THE FIELD, BEFORE THE BID IS MADE. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE MADE SUCH EXAMINATIONS OR OF ANY ERROR OF THEIR PART.

9.THE ELECTRICAL CONTRACTOR IS: RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR.

CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS AND TAXES APPLICABLE TO THIS DIVISION IF NECESSARY. (FEDERAL GOVERNMENT IS NOT SUBJECT TO LOCAL PERMITS OR FEE FOR THE PROJECT).

10.FIRE STOPPING: ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. WHEN NEW CABLES/CONDUITS PENETRATE EXISTING FIRE RATED WALL, PENETRATIONS SHALL BE SEALED TO MATCH EXISTING RATING TO ENSURE IT RETAIN EXISTING CONDITIONS. THE BOD FOR FIRE STOPPING PRODUCTS SHALL BE AS MANUFACTURED BY THE 3M CO.

11.PAINTING: ALL NEWLY INSTALLED EXPOSED PIPING SHALL BE PAINTED TO MATCH THE ADJACENT WALL OR CEILING SURFACE UNLESS THE REQUIRED COLOR CODING IS SPECIFIED.

12.OWNER FURNISHED EQUIPMENT: EQUIPMENT THAT WILL BE FURNISHED BY THE OWNER WILL BE INDICATED ON A SCHEDULE OR BE INCLUDED IN SPECIFIC NOTES OR SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR, IN COORDINATION WITH THE OWNER. WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE,

13.ELECTRICAL SERVICE DISRUPTIONS: NOT USED.

PROTECT, AND ULTIMATELY INSTALL THE EQUIPMENT.

14.EQUIPMENT ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND LABEL.

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT SERVICES, AND ACCESSORIES FOR COMPLETE INSTALLATION OF ALL ELECTRICAL WORK AS NOTED. ITEMS OMITTED FROM EITHER THE SPECIFICATIONS OR THE DRAWINGS, BUT SHOWN OR DESCRIBED IN ONE OR THE OTHER, AND ITEMS NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL FORM A PART OF THE WORK.

15.MISCELLANEOUS SUPPORTING MEMBERS: ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS. RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ANY MENTION OF A SPECIFIC VOLTAGE ON THE ELECTRICAL DRAWINGS SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE VOLTAGE PRIOR TO PURCHASING OR ROUGH-IN WORK.

16.DISTRIBUTION PANELS AND PANELS BOARDS: ALL DISTRIBUTION PANELS AND PANEL BOARDS SHALL BE PROVIDED WITH TYPEWRITTEN DIRECTORIES. SEE PANEL SCHEDULES ON THE DRAWINGS AND SPECIFICATION FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS. ALL DISTRIBUTION PANELS AND PANEL BOARDS SHALL BE LABELED ON THE PANEL CABINET WITH THE PANEL NAME AND THE POWER SOURCE FEEDING THE PANEL AS PER THE ELECTRICAL ONE LINE. ALL PANELS AND PANEL BOARDS SHALL BE PROVIDED WITH HINGED DOOR-IN-DOOR WITH NSR251 KEY/LOCK.

CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE OWNER'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS.AS WELL AS THEIR OWN FORCES. BY ADEQUATELY PROVIDING APPROPRIATE PPE AND PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS

18.EQUIPMENT CONNECTIONS: PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL OWNER FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTION TO ALL VIBRATION PRODUCING EQUIPMENT.

19. TEMPORARY LIGHTING, POWER, FIRE, AND SAFETY: PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED IN AREAS UNDERGOING WORK DURING CONSTRUCTION. FURNISH AND INSTALL ONE OSHA APPROVED PIGTAIL SOCKET WITH 150-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE AND A MINIMUM 1 PER ROOM. THE TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL.

FURNISH AND INSTALL POWER OUTLETS TO A TOTAL OF ONE FOR EVERY 2000 SQUARE FEET OR PART THEREOF OF FLOOR AREA. THESE SHALL BE 15 AMP, SINGLE PHASE RECEPTACLES FOR EITHER 110 OR 220 VOLTS AS DIRECTED BY THE GENERAL/PRIME CONTRACTOR. COORDINATE FOR ADDITIONAL TEMPORARY POWER REQUIREMENTS WITH OTHER TRADES AND PROVIDE AN ADEQUATE INSTALLATION.

COMPLY WITH NFPA 241 FOR SAFEGUARDING DURING CONSTRUCTION AND ALTERATION OPERATIONS. IN ADDITION, ANY OPENINGS IN FIRE RATED SEPARATIONS BETWEEN OCCUPIED AND UNOCCUPIED (OR OPERATIONAL AND NON-OPERATIONAL) AREAS SHALL BE SEALED AT THE END OF EACH WORK DAY WITH AN APPROPRIATE FIRE RATED ENCLOSURE OR SEALANT. DO NOT COMPROMISE EXISTING SECURITY OR FIRE ALARM SYSTEMS SERVING THE OCCUPIED OR OPERATIONAL AREAS.

DURING CONSTRUCTION THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN ELECTRICAL UTILITIES OF THE BUILDING WITHOUT INTERRUPTION. SHOULD IT BE NECESSARY TO INTERRUPT ANY ELECTRICAL SERVICE OR UTILITY, THE CONTRACTOR SHALL SECURE PERMISSION FROM THE OWNER FOR SUCH INTERRUPTION AT LEAST 6 WEEKS IN ADVANCE. ANY INTERRUPTION SHALL BE MADE WITH THE MINIMUM AMOUNT OF INCONVENIENCE TO THE OWNER AND ANY SHUT-DOWN TIME SHALL HAVE TO BE ON A PREMIUM TIME/AFTER HOURS BASIS AND SUCH TIME TO BE INCLUDED IN THE CONTRACTOR'S BID.

CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY LIGHTING AND POWER FOR ALL TRADES DURING CONSTRUCTION AND FIRE ALARM: RED REMOVE IT AT COMPLETION OF WORK.

CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA), AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

20.POWER COORDINATION: THE CONTRACTOR SHALL PERFORM ALL COORDINATION AND SCHEDULING OF LOCAL POWER OUTAGES REQUIRED WITH THE OWNER. ALL NEEDED POWER OUTAGES TO BE SCHEDULED WITH THE OWNER TWO WEEKS IN ADVANCE.

NEMA 1

NEMA 3R

NOT APPLICABLE

21.CABLING: BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2 - # 12, 1 - #12 GRD., 3/4" C. A SEPARATE NEUTRAL SHALL BE RUN FOR EACH CIRCUIT. SEE WIRE SIZING TABLE. IN SCHEDULES SECTION OF THIS SET.

26.RECEPTACLES

CONTRACTOR.

DRAWINGS.

28.GUARANTEE:

29. FINAL INSPECTION:

THE CONTRACTOR.

AND PROPER OPERATIONS.

CONTRACTOR SHALL VERIFY ALL OUTLET MOUNTING

ARRANGEMENTS, HEIGHTS AND LOCATIONS WITH THE

ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ANY

CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE

SPECIFIC REQUIREMENT WITH THE EQUIPMENT FURNISHED

OR THE OTHER TRADES WORKING IN THE SAME AREA. NO

ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED

FOR OUTLETS IN WRONG LOCATIONS, IN CONFLICT WITH

OUTLET BOXES MOUNTED BACK-TO-BACK IN THE SAME

BOXES. ALL THE EMERGENCY POWER OUTLETS SHALL BE

LATERAL SPACING SHALL BE MAINTAINED BETWEEN

BUILT RECORD DOCUMENTS TO THE OWNER AND

ARCHITECT/ENGINEER BEFORE FINAL PAYMENT WILL BE

ISSUED. THE CONTRACT RECORD DOCUMENTS SHALL

DIAGRAMMATICALLY INDICATE THE ACTUAL INSTALLED

CONDITIONS THAT DEVIATE FROM ORIGINAL DESIGN

ALL EQUIPMENT FURNISHED AND WORK PERFORMED

GUARANTEED AGAINST DEFECTS IN MATERIALS OR

OR WORKMANSHIP SHALL BE CORRECTED BY THE

SPECIFICATION, UNLESS OTHERWISE NOTED. ANY FAILURE

OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS

ALL THE ITEMS AND WORK SHALL BE TESTED FOR SAFE

UPON COMPLETION OF THE WORK, THE ELECTRICAL

CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE

PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES,

REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE

OWNER'S PROPERTY, LEAVING THE WORK IN NEAT AND

CLEAN ORDER AND IN COMPLETE WORKING CONDITION

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE

EQUIPMENT INSTALLED BY THIS CONTRACTOR INCLUDING

OTHERS AND UNPACKED OR REMOVED FROM CARTON, BY

FOR REMOVAL OF ANY CARTON, DEBRIS, ETC. FOR

EQUIPMENT FURNISHED BY THE OWNER. THE ABOVE

SHALL ALSO APPLY TO ALL EQUIPMENT FURNISHED BY

UNDER THE CONTRACT DOCUMENTS SHALL BE

WORKMANSHIP FOR A PERIOD AS PER OWNER

CONTRACTOR AT NO COST TO THE OWNER.

RELOCATE ANY DEVICE 10'-0" PRIOR TO ROUGH-IN

WITHOUT ANY ADDITIONAL CHARGES BY THE

HOSPITAL GRADE RED IN COLOR.

27.AS BUILT/RECORD DOCUMENTS:

OTHER WORK ETC. THE OWNER RESERVES THE RIGHT TO

MENTION OF A SPECIFIC MOUNTING ARRANGEMENT,

HEIGHT OR LOCATION SHALL NOT RELIEVE THE

ALL WIRE SIZE #12 AWG AND LARGER SHALL BE STRANDED AND SOLID FOR #14 AND SMALLER.

EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. ALL CONDUCTORS SHALL BE COPPER TYPE THWN /

CABLE COLOR FOR VARIOUS SYSTEM SHALL BE AS FOLLOW. NURSE CALL SYSTEM - NEON GREEN, CLINICAL WIRELESS (OIT) - DARK GREEN, GUEST WI-FI - PINK, SECURITY CAMERA - PURPLE, GET WELL NETWORK - BROWN, GENERAL 3-DATA - GREEN/GRAY/YELLOW, (VOIP) - BLUE, FIRE ALARM SYSTEM - RED, FIBER OPTIC - ORANGE.

BRANCH CIRCUIT CABLE SIZING SHALL BE ADJUSTED BASED ON THE VALUES INDICATED IN THE WIRE SIZING TABLE PER SHEET E603.

23.SPECIAL LUG REQUIREMENTS: ANY CABLE WHICH TERMINATES DIRECTLY ON TO A BUS BAR SHALL BE 2 BOLT LONG BARREL TYPE WITH INSPECTION HOLES PRODUCED WITH NON FLASHING TYPE DYES WITH THE BOD AS MANUFACTURED BY THOMAS AND BETTS, OR EQUIVALENT MINIMUM 10 TONS OF COMPRESSION, HEX CRIMP. THE USE OF HEAT SHRINK TUBING IS EXPLICITLY FORBIDDEN.

ALL WIRE SHALL BE INSTALLED IN THIN WALL (E.M.T.) CONDUIT UNLESS OTHERWISE NOTED.MINIMUM SIZE SHALL BE 3/4".

ALL UNDERFLOOR, UNDERGROUND OR EXPOSED-TO-WEATHER CONDUIT SHALL BE HEAVYWALL GALVANIZED RIGID STEEL. (G.R.S.), MINIMUM 3/4". ALL BURIED CONDUITS AND 2" AND ABOVE EXPOSED-TO-WEATHER CONDUIT SHALL BE PVC COATED HEAVYWALL GALVANIZED RIGID STEEL (G.R.S).

ALL CONDUIT FASTENERS, STRAPS, SUPPORTS ETC. MUST BE "BOLT-ON" GALVANIZED STEEL ON EXPOSED CONSTRUCTION AND IN WET AREAS. ALL FASTENERS, STRAPS, CLIPS, ETC. SHALL BE UL LISTED FOR THEIR USE.

SUPPORT CONDUIT WITH P1000 UNISTRUT AND 3/8" THREADED ROD 8'-0" O.C. MAX.

PROVIDE MYERS HUBS FOR ALL CONDUIT TO ENCLOSURE CONNECTIONS.

ALL CONDUIT RACEWAYS SHALL BE CONCEALED IN OR WITHIN: WALLS, CEILING CAVITY, ROOF CONSTRUCTION (WHERE APPROVED). GRADE, ETC. UNLESS OTHERWISE NOTED. ANY RACEWAY THAT IS TO BE ROUTED EXPOSED SHALL BE APPROVED BY THE OWNER AND SUCCESSFULLY REVIEWED BY THE ARCHITECT/ENGR. PRIOR TO INSTALLATION. ALL CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS WITH 90° BENDS WHERE REQUIRED AND SHALL BE RACKED. PULL AND JUNCTION BOXES SHALL BE HELD TO A MINIMUM. CONTRACTOR SHALL INSTALL ALL WORK IN NEAT & INDUSTRY RECOGNIZED MANNER OF BEST PRACTICES.

GROUND ALL CONDUITS, MOTORS, AND EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. OWNER SPECIFICATION SECTION 26 05 26 "GROUNDING AND BONDING ELECTRICAL SYSTEM".

CONTRACTOR SHALL PROVIDE BOXES, JUNCTION BOXES, SPLICE BOXES AND FITTINGS WHERE NECESSARY OR REQUIRED BY THE

ALL ELECTRICAL CONDUITS TO A MINIMUM OF 3/4". MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

PROVIDE JUNCTION BOX AND CONDUIT COLOR FOR VARIOUS SYSTEMS AS PER FOLLOWING COLOR SCHEME.

WHERE CORE DRILLING AND CUTTING OF FLOORS OR WALLS IS REQUIRED, X-RAY THE AREAS PRIOR TO DRILLING. AVOID INTERFERENCE WITH EXISTING CONCEALED ELECTRICAL, PLUMBING INSTALLATIONS, AND REINFORCING STEEL. REFINISH DAMAGED AND CUT SURFACES TO MATCH ADJACENT FINISHES.

CONTRACTOR SHALL FIREPROOF ALL CONDUIT OPENINGS BETWEEN FLOORS AND ANY INTERSPACE FIRE SEPARATION BLOCK WALLS WITH A OWNER APPROVED U.L. LISTED FIRE RETARDANT MATERIAL, AS SUCCESSFULLY REVIEWED BY THE ARCHITECT/ENGINEER.

25.LIGHTING:

RCPT/REC

REQD

RM

TX

TYP

ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE LIGHT LOCATION WITH CABLE TRAY AND CEILING MOUNTED MECHANICAL EQUIPMENTS AND ENSURE THAT SERVICE CLEARANCE AND ACCESS IS NOT RESTRICTED.

RECEPTACLE

RACEWAY

REQUIRED

ROOM

ELECTRICAL DEMO NOTES

1.EXAMINATION CONTRACTOR SHALL SURVEY THE EXISTING SITE AND EXAMINE AREAS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO BIDDING AND DETERMINE THE EXTENT OF NECESSARY RELOCATIONS, REMOVALS AND REPAIRS TO THE EXISTING ELECTRICAL WORK REQUIRE AVOIDING CONFLICTS WITH NEW CONSTRUCTION IN ORDER TO MEET MINIMUM CODE REQUIREMENTS. NOTIFY THE OWNER IN WRITING OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL SATISFACTORY CONDITIONS HAVE BEEN CORRECTED. A FIELD SURVEY VERIFICATION IS MANDATORY IN ORDER TO SUBMIT AN ELECTRICAL BID, FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT.

DEMOLITION DRAWINGS ARE BASED ON FIELD WALL ARE PROHIBITED. A MINIMUM 24" CENTER-TO-CENTER OBSERVATION AND EXISTING RECORD DRAWINGS. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND REMOVAL OF ELECTRICAL WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. NO ADDITIONAL CLAIMS FOR WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, UNLESS, IN CERTAIN CASES, ELECTRICAL CONTRACTOR SHALL FURNISH CONTRACT AS-CONSIDERED JUSTIFIABLE BY THE ENGINEER.

> REVIEW MECHANICAL AND ARCHITECTURAL DEMOLITION DRAWINGS FOR ANY OTHER ELECTRICAL DEMOLITION REQUIREMENTS.

2.PREPARATION

ALL EXISTING EQUIPMENT IS TO REMAIN OPERATIONAL DURING THE CONSTRUCTION PERIOD. ANY TEMPORARY WIRING OR REROUTING OF CIRCUITRY TO ACHIEVE THIS IS BY THE ELECTRICAL CONTRACTOR. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON APPROVAL FROM THE OWNER AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON. INCLUDE ALL PREMIUM TIME CHARGES IN THE BASE BID.

ANY UTILITY SHUT DOWN THAT AFFECT PATIENT CARE SHALL BE COORDINATED A MINIMUM OF 45 DAYS IN ADVANCE AND SHALL BE PERFORMED OFF HOUR PERIODS OR WEEKENDS AT THE CONVENIENCE OF OWNER AS APPROVED THE BY OWNER.

IT IS MANDATORY THAT THE ALL EXISTING FIRE ALARM AND COMPONENTS TO REMAIN FUNCTIONAL DURING CONSTRUCTION.

BEFORE WORKING ON ANY EQUIPMENT THAT IS CONNECTED TO ENERGY SOURCE, CONTRACOR SHALL PROVIDE OSHA MANDATED LOCK-OUT/TAG-OUT AT SOURCE LOCATION TO SHUT OFF THE ENERGY.

3.DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK. WHERE SOURCE OF SUPPLY IS A PANEL BOARD, RE-LABEL PROTECTIVE DEVICE AS "SPARE" AND SET TO THE OFF POSITION AFTER DEMOLITION IS COMPLETE. PROVIDE REVISED CIRCUIT DIRECTORIES IN ALL PANELBOARDS AFFECTED BY NEW OR DEMOLITION WORK THAT INDICATES ALL LOADS, NEW AND MODIFIED.

CIRCUIT NUMBER LABEL SHOWN ON EXISTING OUTLETS AND SWITCHES IS AS PER FIELD SURVEY. CONTRACTOR SHALL BE RESPONSIBLE TO TRACE CIRCUITS AND FIND OUT BREAKER LOCATIONS AND DEMO THE CABLES AND UPDATE THE PANEL DIRECTORY FOR OWNER RECORD.

WHERE CORE DRILLING AND CUTTING OF FLOORS/SLABS OR WALLS IS REQUIRED CONTRACTOR IS TO EXERCISE EXTREME CAUTION AND X-RAY THE AREAS PRIOR TO DRILLING/CUTTING SLAB TO AVOID DAMAGE TO ANY EXISTING CONCEALED ELECTRICAL, PLUMBING INSTALLATIONS, AND REINFORCING STEEL ETC. THAT MAY BE CONCEALED IN OR BENEATH THE SLAB/WALL. CONTRACTOR SHALL FIREPROOF ALL THE OPENING WITH U.L. LISTED FIRE RETARDANT MATERIAL, TO MATCH EXISTING CONDITIONS.

REMOVE EXPOSED ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING AND FINISHED WALL. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH THE SURFACE TO MATCH EXISTING. CONDUIT MAY BE ABANDONED IN WALLS AND FLOORS TO REMAIN BUT EXISTING WIRING WITHIN THESE CONDUITS TO BE REMOVED COMPLETELY. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED

DURING DEMOLITION AND EXTENSION OF WORK.

4.DISPOSAL OWNER SHALL HAVE RIGHT TO RETAIN ANY EQUIPMENT OR MATERIALS THAT HAVE BEEN DEMOLISHED PRIOR TO DISPOSAL OR REMOVAL FROM SITE.

ANY EQUIPMENT OR MATERIALS NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM SITE.

CONTRACTOR SHALL COMPLY WITH ENVIRONMENTAL LAWS AND REGULATIONS FOR DISPOSAL OF DEMOLISHED MATERIALS AND EQUIPMENT.

—				
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	ASE	DRAWN	CHECKED	DATE
SCH	IEMATIC DESIGN	LN	LN	04/22/24
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/24
CON	ISTRUCTION DOCUMENTS	KNW	LN	09/13/24
			l	



CONSULTANTS:





FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN TALLAHASSEE, FLORIDA

ELECTRICAL GENERAL & DEMOLITION NOTES

SHEET NUMBER:

ABBREVIATIONS ALL MAY NOT APPLY

CLG

CKT

CU

DEMO DEMOLISH ABOVE COUNTER DIV DIVISION AMP FRAME EC ELECTRICAL CONTRACTOR ABOVE FINISHED FLOOR EGC AFG ABOVE FINISHED GRADE **EQUIPMENT GROUNDING CONDUCTOR** AHU AIR HANDLING UNIT ELEC ELECTRICAL **ALUMINUM EXHAUST FAN** ARCHITECT OR ARCHITECTURAL EX EXISTING TO REMAIN ΑT AMP TRIP EXT **EXTERIOR** AUTOMATIC TRANSFER SWITCH ATS **EWC** ELECTRIC WATER COOLER ATU AIR TERMINAL UNIT EWH ELECTRIC WATER HEATER EMT ELECTRICAL METALLIC TUBING AWG AMERICAN WIRE GAUGE **EQUIP** EQUIPMENT BUILDING AUTOMATION SYSTEM FLEXIBLE METAL CONDUIT BKR CIRCUIT BREAKER FACP BLDG BUILDING FBC FLORIDA BUILDING CODE BOD BASIS OF DESIGN F/A,FA FIRE ALARM CONDUIT FLA **FULL LOAD AMPS** C/B,CB CIRCUIT BREAKER

HVAC kAIC kCMIL LCP LTG LFMC MAX

MCA

MCC

MCM

MH

MIN

MISC

MLO

MTS

MV

FR FRAME RATING GC

CEILING CIRCUIT **CURRENT TRANSFORMER** COPPER GND GROUND

FIRE ALARM SYSTEM CONTROL PANEL

GROUND FAULT INTERRUPTER GENERAL CONTRACTOR

GROUNDING ELECTRODE CONDUCTOR

HORSEPOWER HEATING, VENTILATION & AIR-CONDITIONING INTERMEDIATE METAL CONDUIT JUNCTION BOX

MEDIUM VOLTAGE

KILO-AMPERE INTERRUPTING CAPABILITY THOUSAND CIRCULAR MILS LIGHTING CONTROL PANEL LIGHTING LIQUID TIGHT FLEXIBLE METAL CONDUIT LOW VOLTAGE

MAXIMUM MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS **MANHOLE** MINIMUM **MISCELLANEOUS** MAIN LUGS ONLY MANUAL TRANSFER SWITCH

NC NORMALLY CLOSED NO NEC NESC NEU NFPA NTS OC OCPD OFCI OH OFOI PEM PNL

PQM

PRI

PT

N3R

NORMALLY OPEN NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL SAFETY CODE NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION NOT TO SCALE ON CENTER OVERCURRENT PROTECTION DEVICE OWNER FURNISHED CONTRACTOR INSTALLED **OVERHEAD** OWNER FURNISHED OWNER INSTALLED POWER ENERGY MONITOR POWER FACTOR PANELBOARD

POWER QUALITY METER

POTENTIAL TRANSFORMER

PRIMARY

POWER

RGS RNC RVSS SAD SCA SEC SPD SPEC SS SWBD **SWGR** TBB TCC

SURGE ARRESTER DEVICE SHORT CIRCUIT AMPS SECONDARY SUPPLY FAN SURGE PROTECTIVE DEVICE SPECIFICATION STAINLESS STEEL **SWITCHBOARD** SWITCHGEAR TELECOMMUNICATIONS BONDING BACKBONE TIME CURRENT CURVE TR TELECOMMUNICATIONS ROOM TGB TELECOMMUNICATIONS GROUNDING BUSBAR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR \mid 72° **TMGB TVSS** TRANSIENT VOLTAGE SURGE SUPPRESSION

TRANSFORMER

TYPICAL

RIGID GALVANIZED STEEL CONDUIT

REDUCED VOLTAGE SOLID STATE

RIGID NON-METALLIC CONDUIT

VOLT VA **VOLT-AMPERES** VAV VFD XFMR DELTA OHMS W

UPS

VOLT-AMPERES REACTIVE VARIABLE AIR VOLUME UNIT VARIABLE FREQUENCY DRIVE F7.1 WORK AREA OUTLET **WEATHERPROOF** WITHSTAND RATING WIREWAY TRANSFORMER EXPLOSION PROOF PHASE **DEGREES**

WYE

URCW UNDERFLOOR RACEWAY

UNDERWRITERS'

LABORATORIES

UG/URD UNDERGROUND

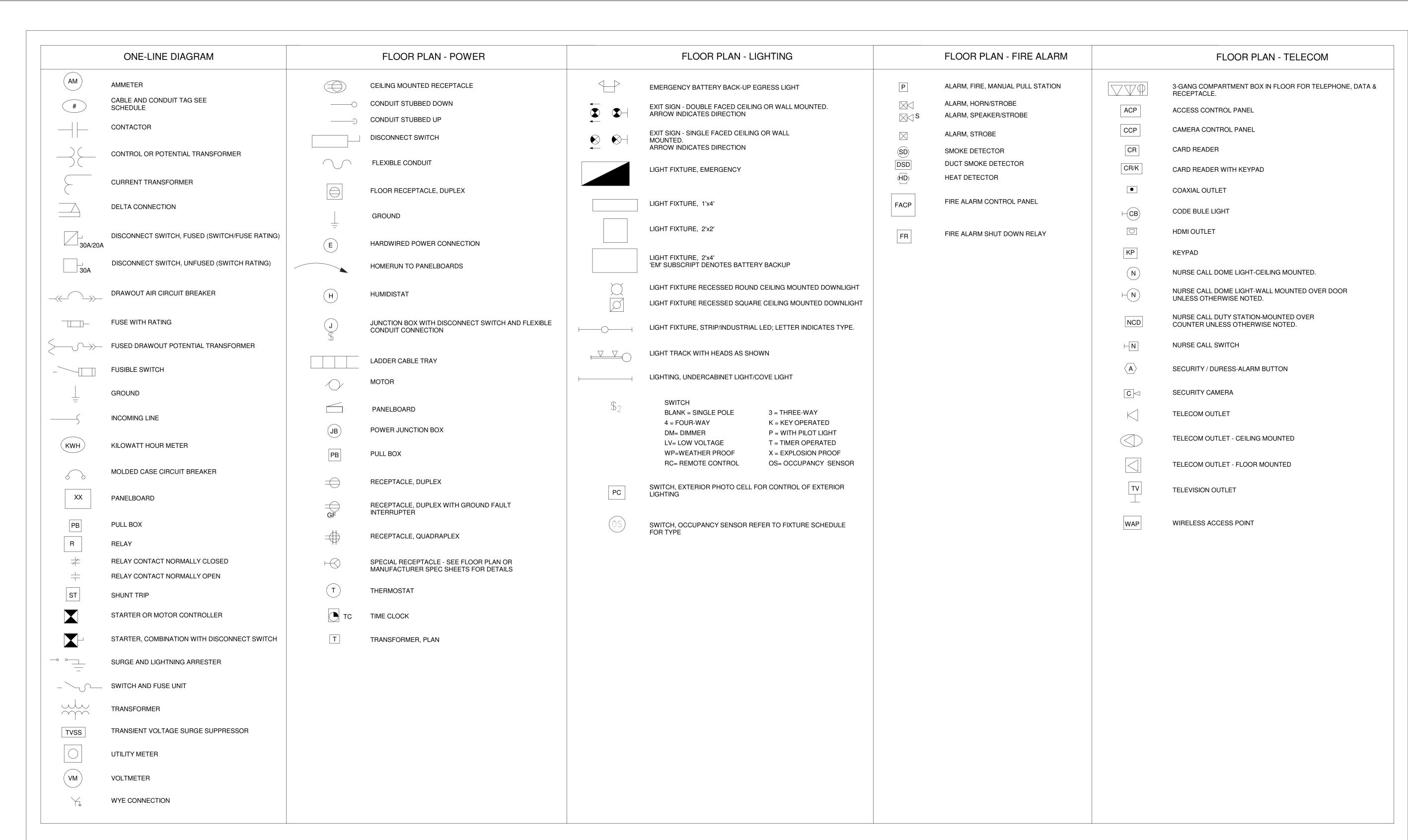
SUPPLY

NUMBER

ELECTRICAL GENERAL & DEMOLITION NOTES ELECTRICAL SYMBOLS FLOOR PLAN - DEMO - ELECTRICAL UNLESS NOTED OTHERWISE FLOOR PLAN - RENO - ELECTRICAL POWER UNINTERRUPTIBLE POWER FLOOR PLAN - RENO - ELECTRICAL LIGHTING FLOOR PLAN - RENO - ELECTRICAL TELECOM & FIRE ENLARGED IT ROOM FLOOR PLAN - RENC POWER DETAILS LIGHTING DETAILS FIRE ALARM DETAILS **ELECTRICAL SCHEDULES** ELECTRICAL SCHEDULES SINGLE-LINE DIAGRAM

ELECTRICAL SHEET INDEX

SHEET NAME



RE	VISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	ASE	DRAWN	CHECKED	DATE
SCH	IEMATIC DESIGN	LN	LN	04/22/24
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/24
CON	ISTRUCTION DOCUMENTS	KNW	LN	09/13/24



CONSULTANTS:



No. 90934

No. 90934

STATE OF

LORIDA G.

ONAL

PROJECT:

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

SHEET TITLE:

ELECTRICAL SYMBOLS

SHEET NUMBER:

E0.2

ELECTRICAL DEMOLITION NOTES

1. THE FOLLOWING DEMOLITION NOTES APPLY TO ALL FLOOR PLANS IN THIS DRAWING SET WITH DEMOLITION DESIGN COMPONENTS.

2. PROVIDE MATERIALS AND LABOR TO DEMOLISH ALL LIGHT FIXTURES. RETURN FIXTURES BACK TO OWNER.

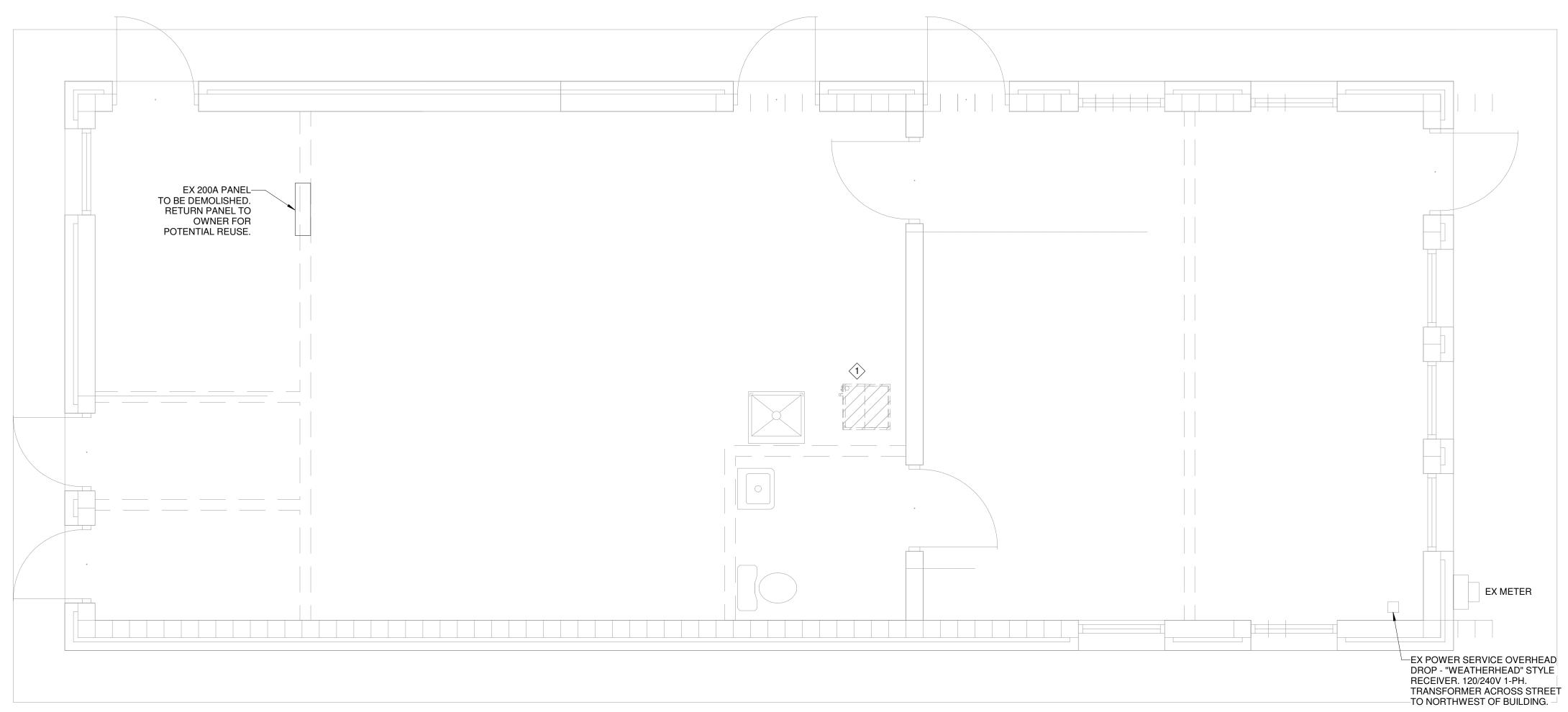
3. PROVIDE MATERIALS AND LABOR TO DEMOLISH ALL RECEPTACLES, TELECOM OUTLETS, AND LIGHT SWITCHES. DEMOLISH ALL POWER

4. HALFTONED/GRAY OBJECTS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

DEMOLITION KEYED NOTES

CONNECTIONS TO EQUIPMENT.

DEMOLISH ALL ELECTRICAL CONNECTIONS FROM MECHANICAL EQUIPMENT TO BE DEMOLISHED.



1

1 FLOOR PLAN - DEMOLITON - ELECTRICAL

E1.1 Scale: 3/8" = 1'-0"

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PHA	ASE	DRAWN	CHECKED	DATE
SCH	EMATIC DESIGN	LN	LN	04/22/2
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/2
CON	ISTRUCTION DOCUMENTS	KNW	LN	09/13/2



CONSULTANTS



PROJEC

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

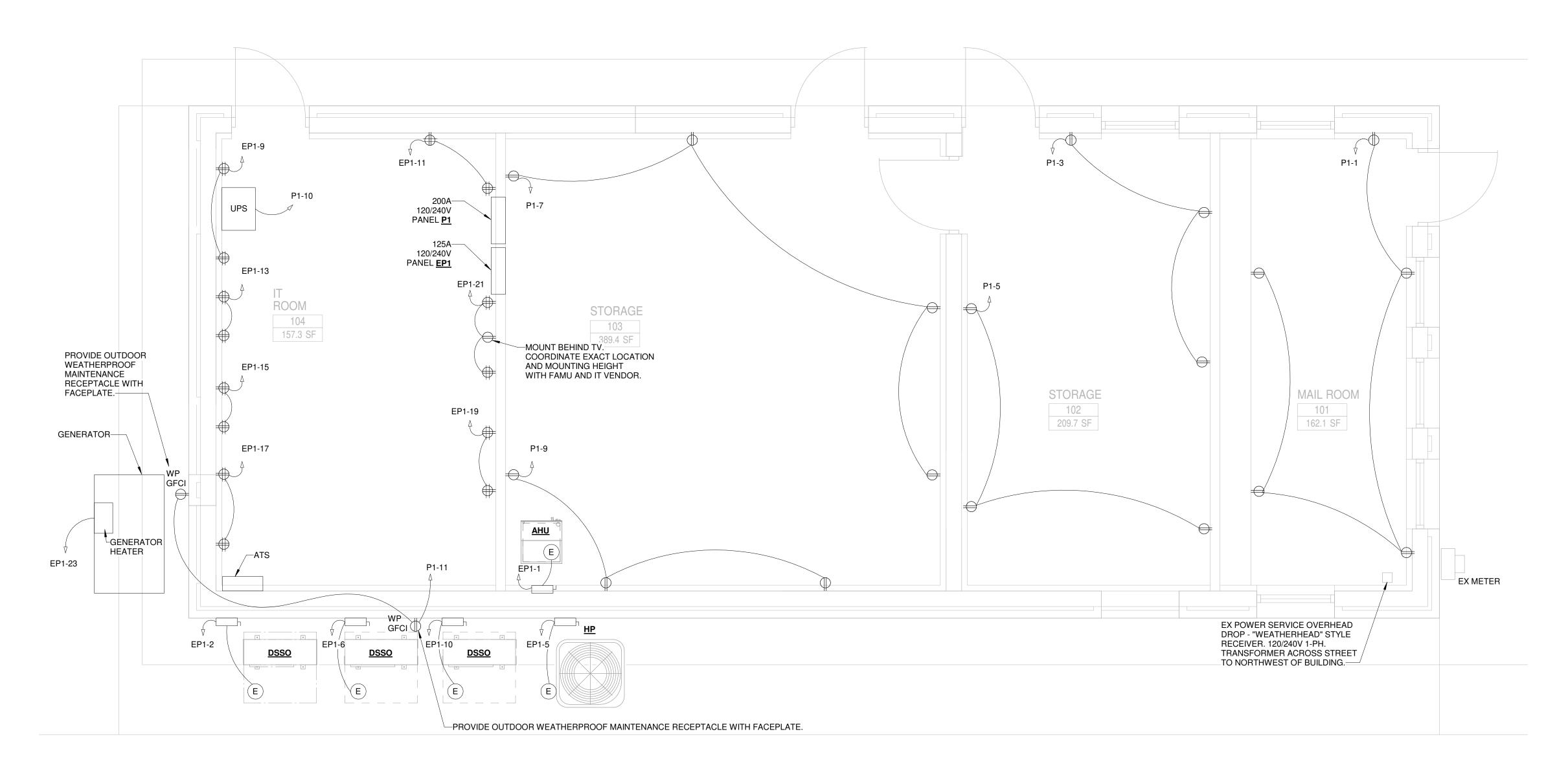
FLOOR PLAN - DEMO -ELECTRICAL

SHEET NUMBER:

E1.

ELECTRICAL RENOVATION NOTES

1. THE FOLLOWING RENOVATION NOTES APPLY TO ALL FLOOR PLANS IN THIS DRAWING SET WITH RENOVATION DESIGN COMPONENTS. 2. BOLD OBJECTS ARE NEW. HALFTONED/GRAY OBJECTS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY. 3. CONTRACTOR SHALL VERIFY MEANS OF DISCONNECT FOR ALL EQUIPMENT PRIOR TO PURCHASE. REFER TO EQUIPMENT SCHEDULE ON SHEET E6.1 FOR DETAILS.



1 FLOOR PLAN - RENOVATION - POWER E1.2 Scale: 3/8" = 1'-0"

RE	VISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
	105			
PH	ASE	DRAWN	CHECKED	DATE
SCH	IEMATIC DESIGN	LN	LN	04/22/2
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/2
CON	ISTRUCTION DOCUMENTS	KNW	LN	09/13/2



CONSULTANTS:



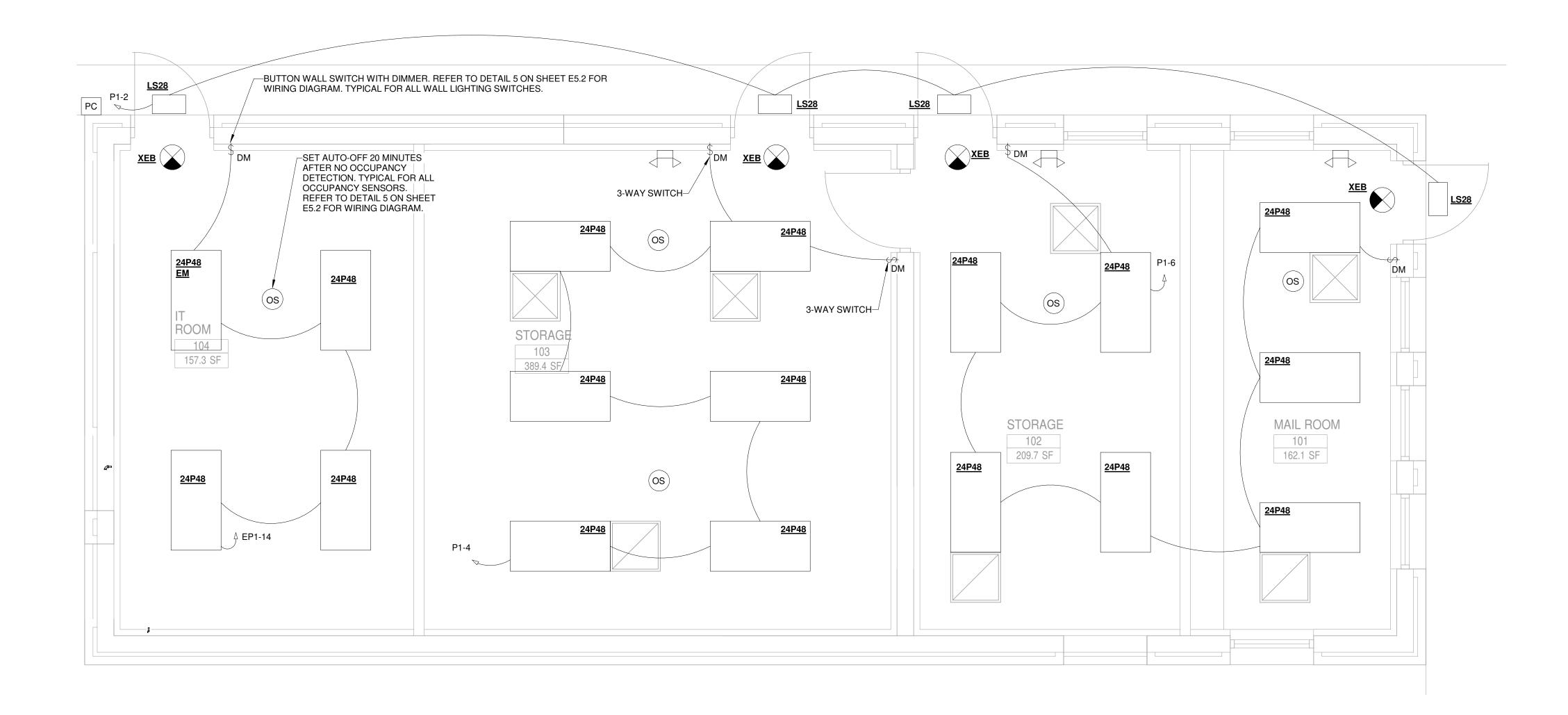
FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN TALLAHASSEE, FLORIDA

FLOOR PLAN - RENO -**ELECTRICAL POWER**

ELECTRICAL RENOVATION NOTES

1. REFER TO LIGHTING SCHEDULE ON SHEET E6.1 FOR TAGGING AND FIXTURE DETAILS.

2. PROVIDE EXTERIOR LIGHTING PHOTOCELL ON NORTHEAST WALL OF BUILDING. CONNECT TO EXTERIOR LIGHTING FOR CONTROL. CONFIRM WITH OWNER IF MEANS OF MANUAL CONTROL FOR EXTERIOR LIGHTING SHALL BE PROVIDED.



1 FLOOR PLAN - RENOVATION - LIGHTING

E1.3 Scale: 3/8" = 1'-0"

RE	VISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	 ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN	LN	LN	04/22/2
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/2
COI	NSTRUCTION DOCUMENTS	KNW	LN	09/13/2



ONSULTANTS:



PROJECT:

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

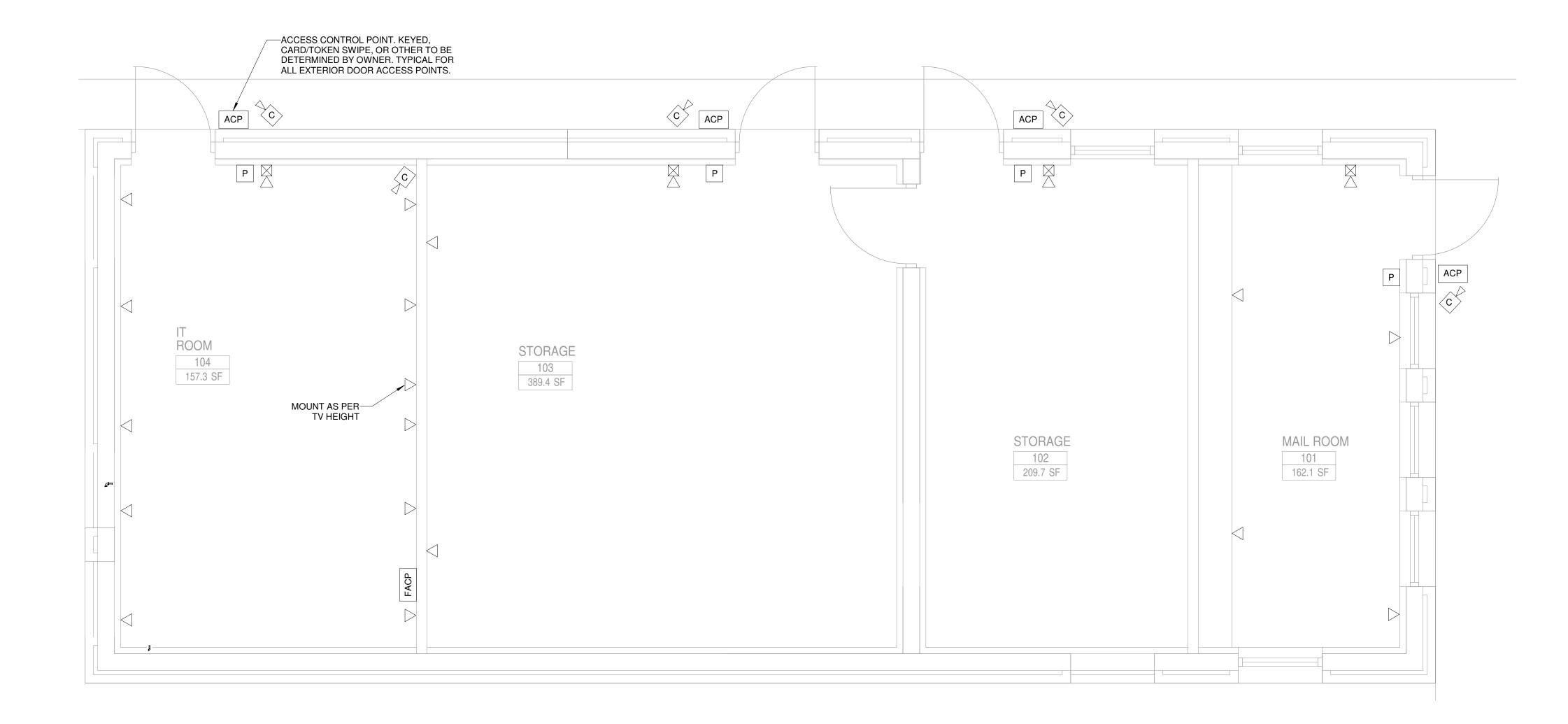
FLOOR PLAN - RENO - ELECTRICAL LIGHTING



ELECTRICAL RENOVATION NOTES

1. THE ELECTRICAL TELECOM DESIGN SOLELY COVERS BASIC DATA/COMMUNICATION PATHWAYS AND OUTLET BOXES. IT CABLING, DATA PORT CONFIGURATION, DATA OUTLETS, AND EXACT DEVICE TYPES AND LOCATIONS TO BE PROVIDED BY IT VENDOR AND CONTRACTOR.

2. FIRE ALARM DESIGN SOLELY COVERS BASIC PATHWAYS. EXACT DEVICE TYPES AND LOCATIONS TO BE DESIGNED AND PROVIDED BY FIRE ALARM VENDOR AND CONTRACTOR.



1 FLOOR PLAN - RENOVATION - TELECOM & FIRE

E1.4 Scale: 3/8" = 1'-0"

PHASE DRAWN CHECKED DATE SCHEMATIC DESIGN LN LN 04/22/2 90% CONSTRUCTION DOCUMENTS LN LN 06/28/2	NO. DESCRIPTION	DRAWN	CHECKED	DATE
SCHEMATIC DESIGN LN LN 04/22/2 90% CONSTRUCTION DOCUMENTS LN LN 06/28/2	Q.C. / CLARIFICATIONS			03/01/24
SCHEMATIC DESIGN LN LN 04/22/2 90% CONSTRUCTION DOCUMENTS LN LN 06/28/2				
SCHEMATIC DESIGN LN LN 04/22/2 90% CONSTRUCTION DOCUMENTS LN LN 06/28/2				
SCHEMATIC DESIGN LN LN 04/22/2 90% CONSTRUCTION DOCUMENTS LN LN 06/28/2				
90% CONSTRUCTION DOCUMENTS LN LN 06/28/2	PHASE	DRAWN	CHECKED	DATE
	SCHEMATIC DESIGN	LN	LN	04/22/24
CONSTRUCTION DOCUMENTS KNW LN 09/13/2	90% CONSTRUCTION DOCUMENTS	LN	LN	06/28/2
	CONSTRUCTION DOCUMENTS	KNW	LN	09/13/2

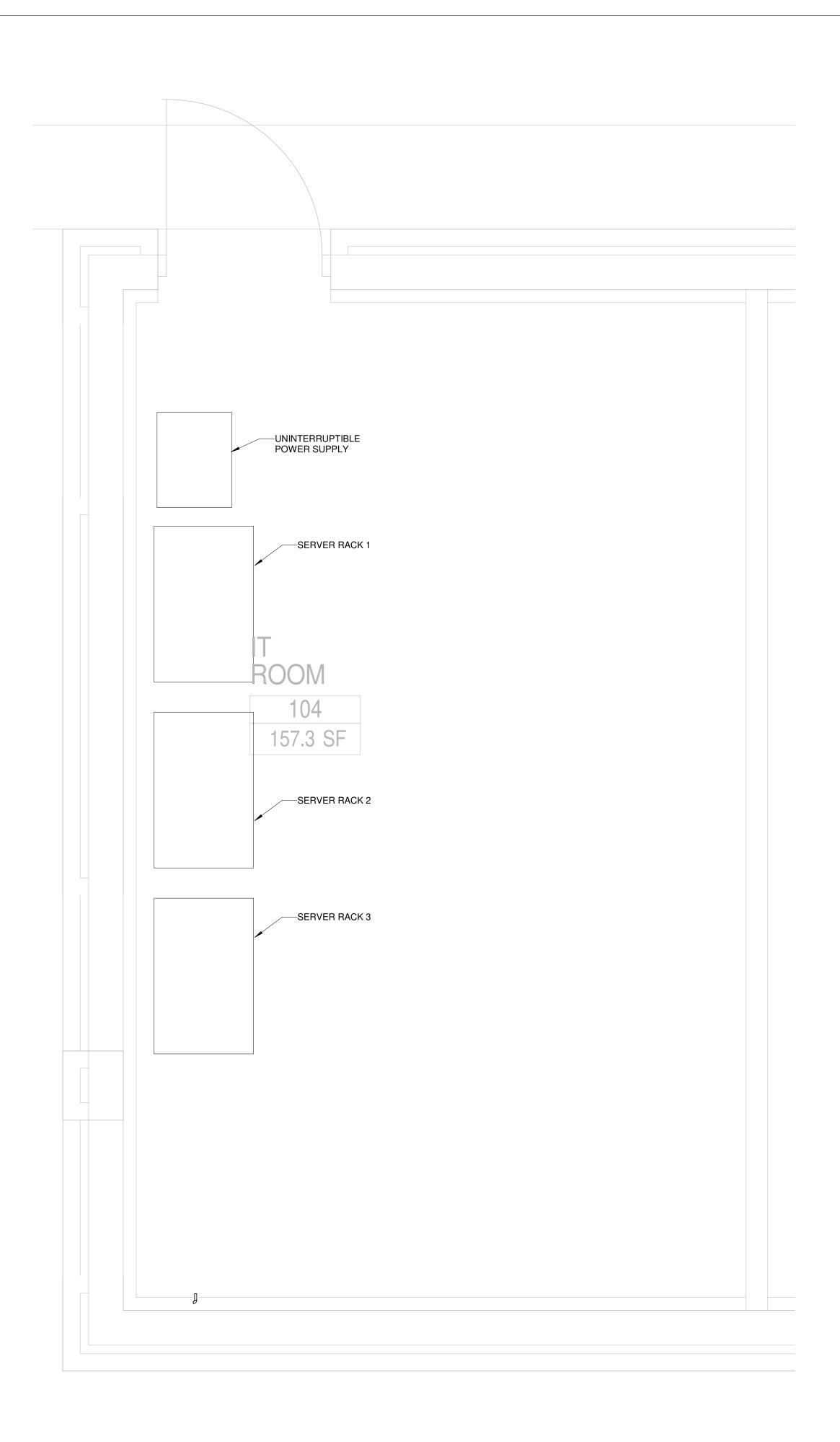




FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT **DESIGN**

TALLAHASSEE, FLORIDA

FLOOR PLAN - RENO -**ELECTRICAL TELECOM & FIRE**



1 ENLARGED FLOOR PLAN - RENOVATION - IT ROOM E4.1 Scale: 3/4" = 1'-0"

ELECTRICAL RENOVATION NOTES

1. IT EQUIPMENT TO INCLUDE THE FOLLOWING:

- TWO (2) CISCO C9500-32C FIBER SWITCHES.
- ONE (1) CISCO C9200-24PXG SWITCHES FOR ON-SITE EQUIPMENT.
- ONE (1) 120/240V UNINTERRUPTIBLE POWER SUPPLY (UPS).

2. ELECTRICAL TELECOM DESIGN SOLELY COVERS BASIC DATA/COMMUNICATION PATHWAYS AND OUTLET BOXES. SERVER RACK CONFIGURATION, IT CABLING, DATA PORT CONFIGURATION, DATA OUTLETS, AND EXACT DEVICE TYPES AND LOCATIONS TO BE PROVIDED BY IT VENDOR AND CONTRACTOR.

Q.C. / (CLARIFICATIONS			03/01/24
PHASE		DRAWN	CHECKED	DATE
SCHEMATIC	DESIGN	LN	LN	04/22/2
90% CONST	RUCTION DOCUMENTS	LN	LN	06/28/2
CONSTRUC	FION DOCUMENTS	KNW	LN	09/13/2



CONSULTANTS:



PROJECT:

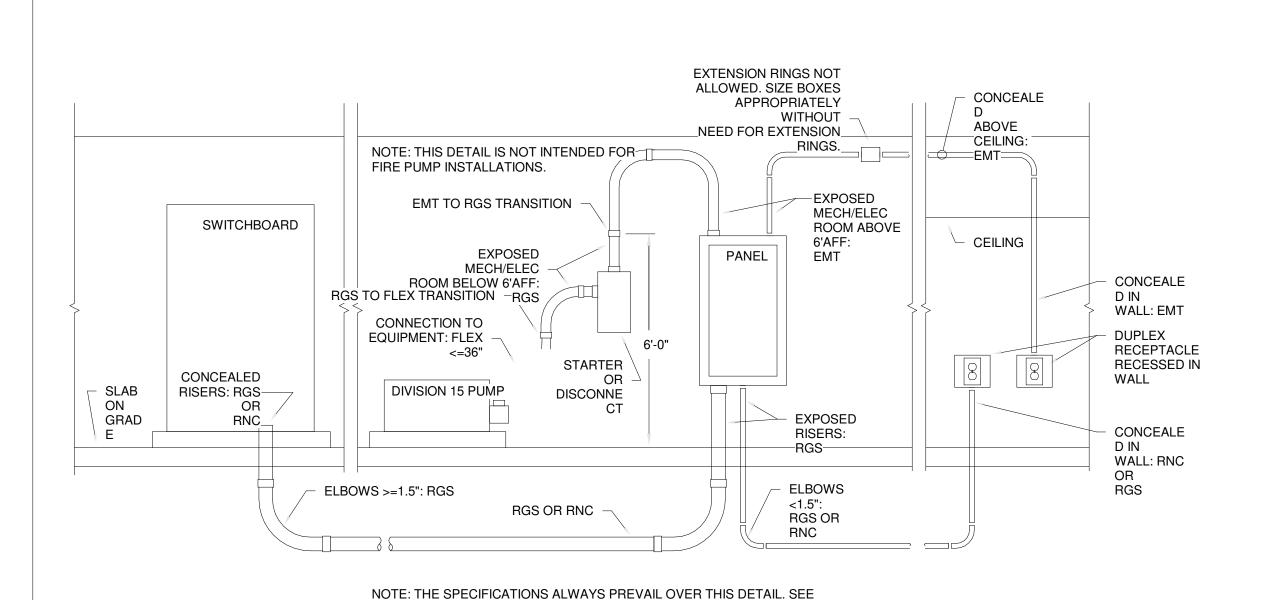
FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

ENLARGED IT ROOM FLOOR PLAN - RENO

SHEET NUMBER:

E4.1

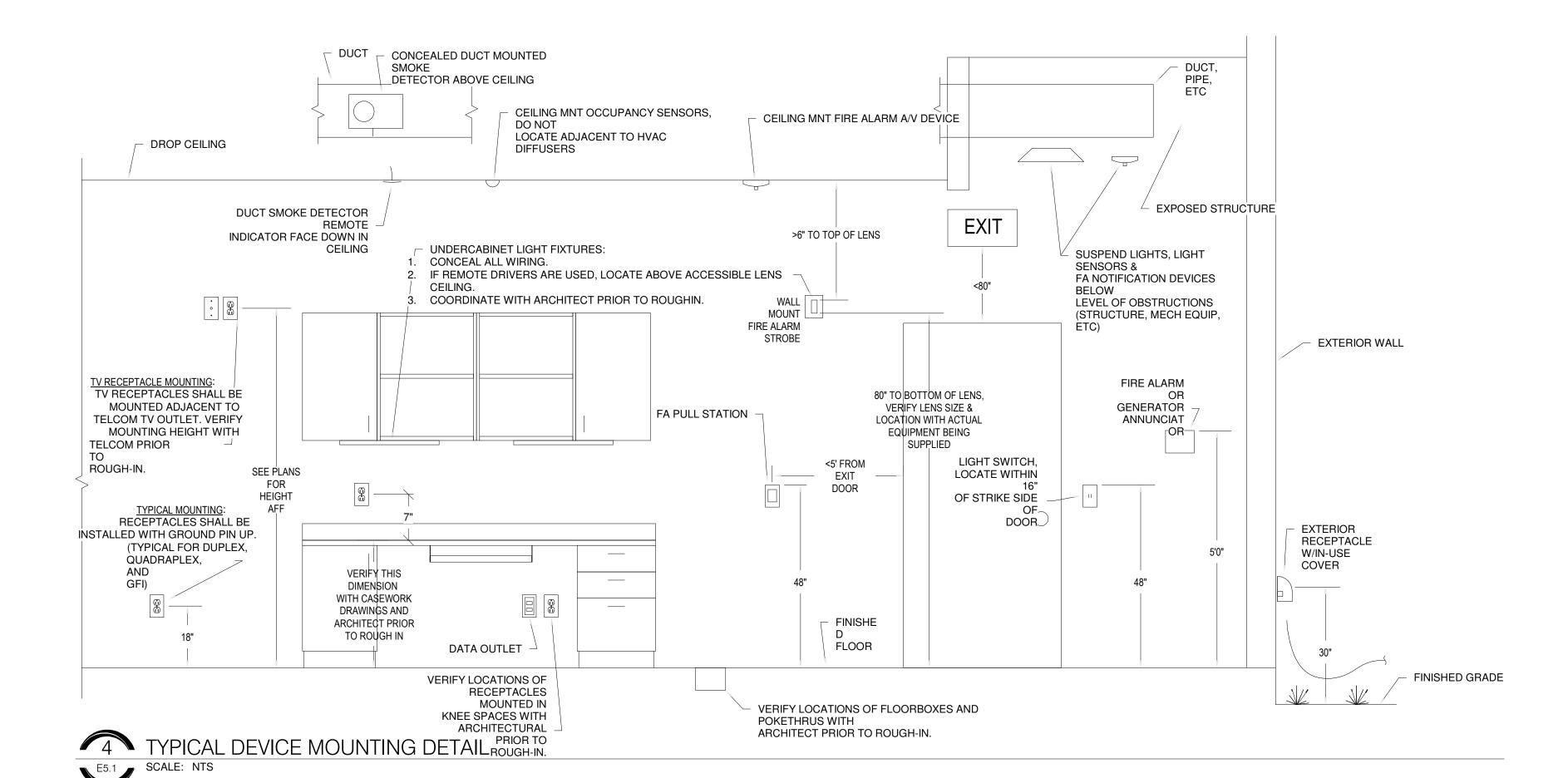


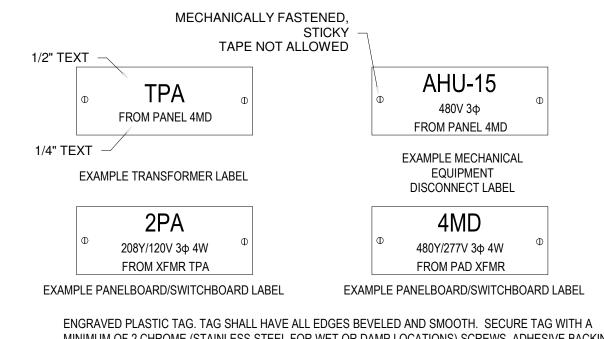
SPECIFICATION SECTION BASIC MATERIALS & METHODS FOR ADDITIONAL

POWER & DISTRIBUTION RACEWAY APPLICATION DETAIL

SCALE: NTS

INFORMATION, EXCEPTIONS, ETC.

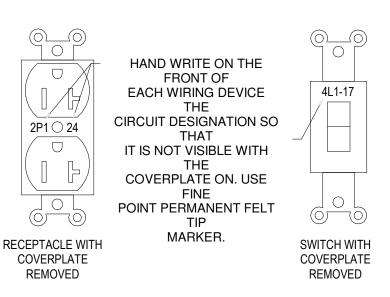




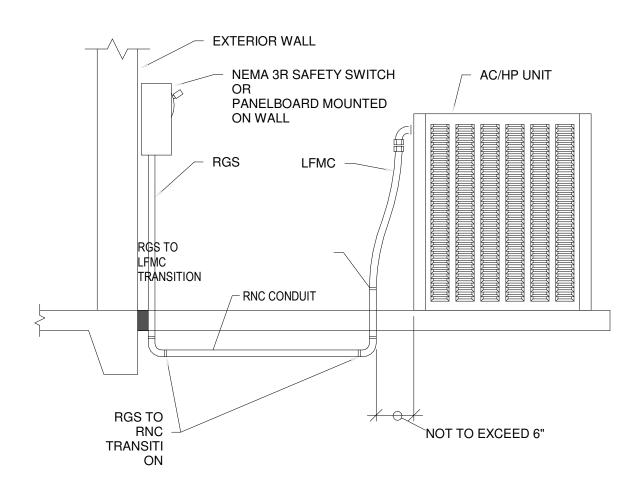
ENGRAVED PLASTIC TAG. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH A MINIMUM OF 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS. ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. DIMENSIONS SHALL BE AS REQUIRED TO FIT APPROPRIATE TEXT. COLORS AS FOLLOWS:

SYSTEM LETTERS BACKGROUN
NORMAL BLACK WHITE
EMERGENCY/LIFE SAFETY WHITE RED
LEGALLY REQUIRED WHITE ORANGE
OPTIONAL STANDBY BLACK YELLOW
CRITICAL WHITE ORANGE
EQUIPMENT WHITE GREEN
GROUNDING SYSTEM WHITE GREEN

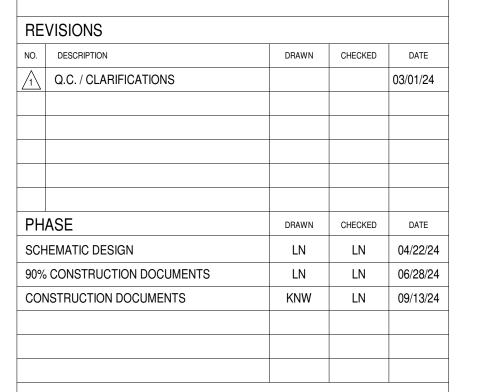














CONSULTANTS:



No. 90934

No. 90934

STATE OF

P, FL 32303 FL CA 28968

PROJECT:

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

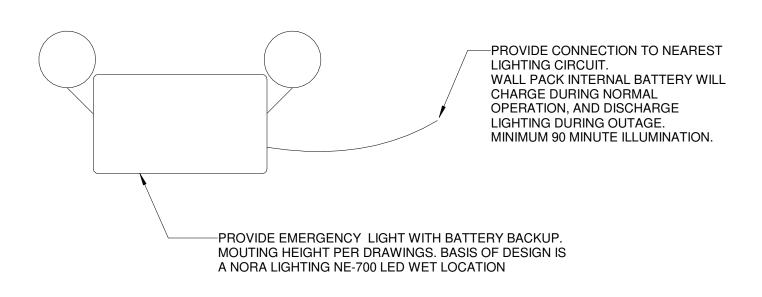
TALLAHASSEE, FLORIDA

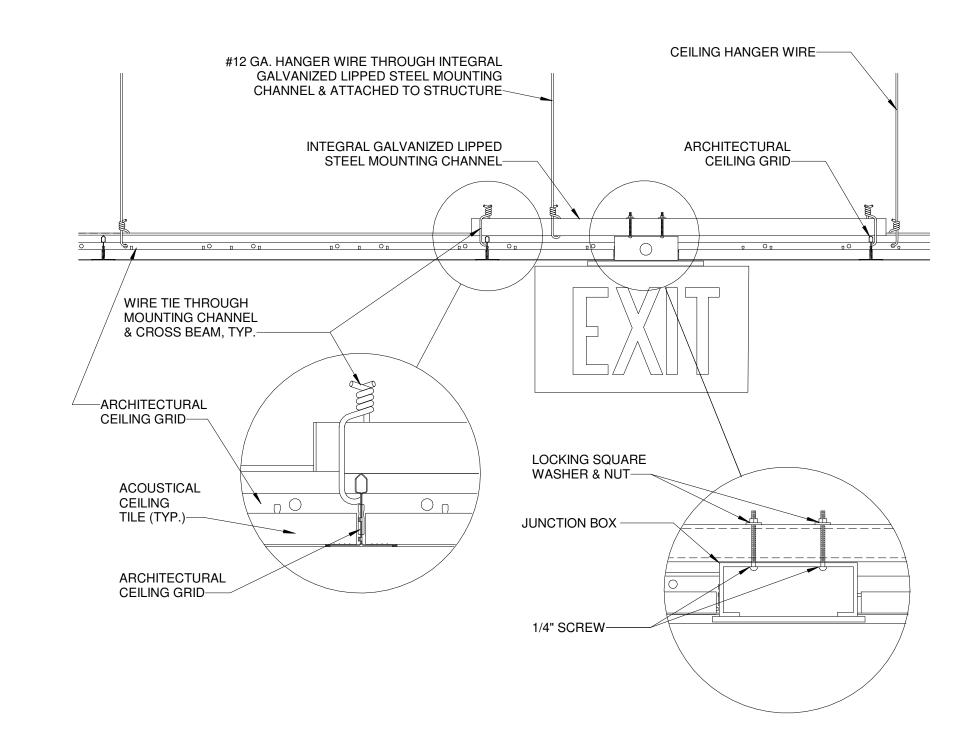
SHEET TITLE:

POWER DETAILS

SHEET NUMBER:

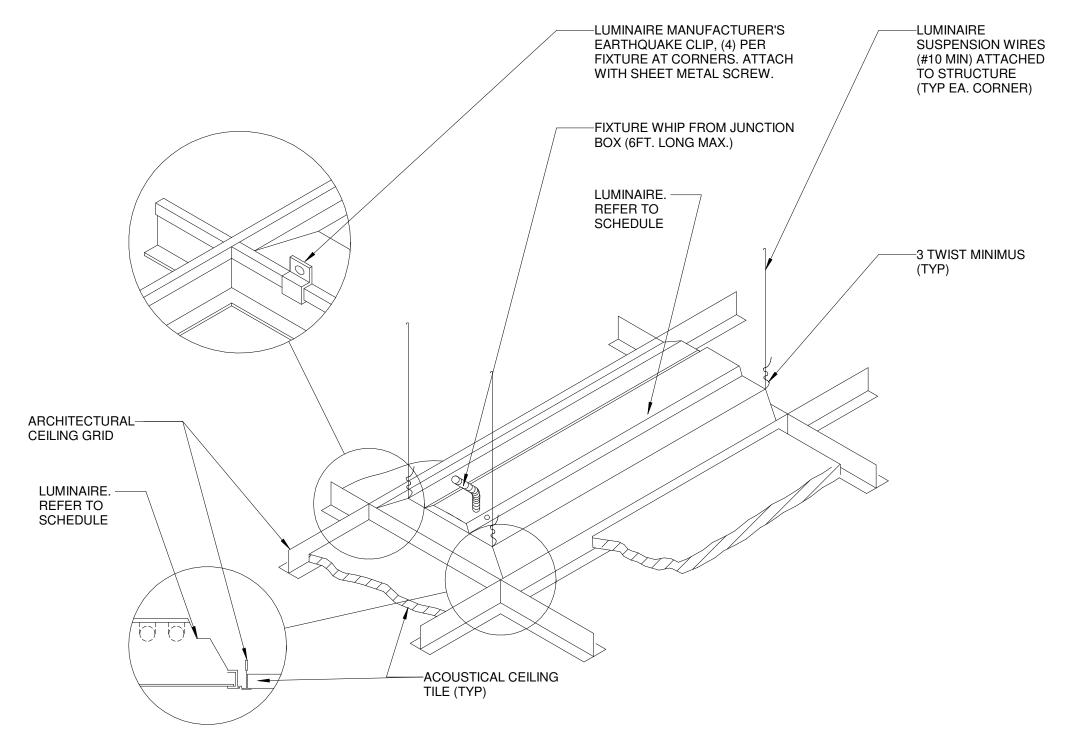
E5.1

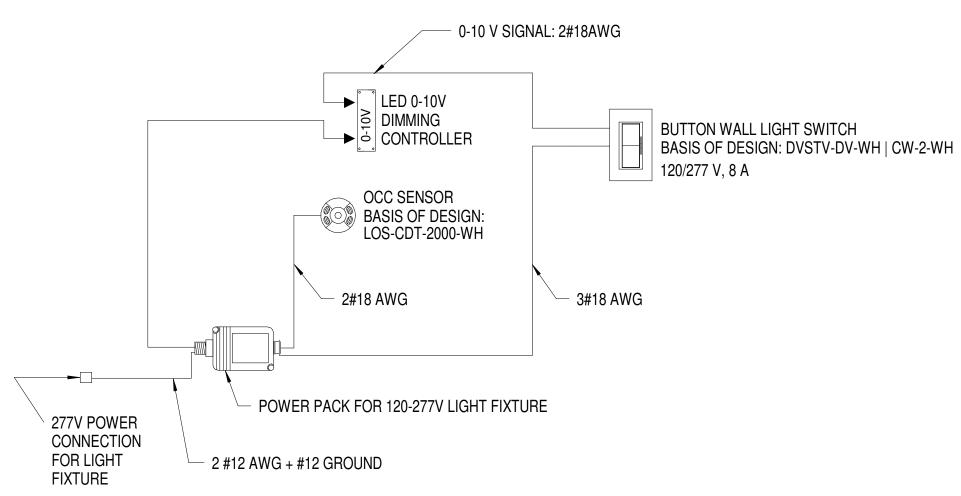
















NO.	DESCRIPTION	DRAWN	CHECKED	1
1	Q.C. / CLARIFICATIONS			03/0
РΗ	ASE	DRAWN	CHECKED	
SCH	HEMATIC DESIGN	LN	LN	04
90%	CONSTRUCTION DOCUMENTS	LN	LN	06
COI	NSTRUCTION DOCUMENTS	KNW	LN	09



CONSULTANTS:



Engineering
150 John Knox Rd
Tallahassee, FL 32303 FL CA 28968

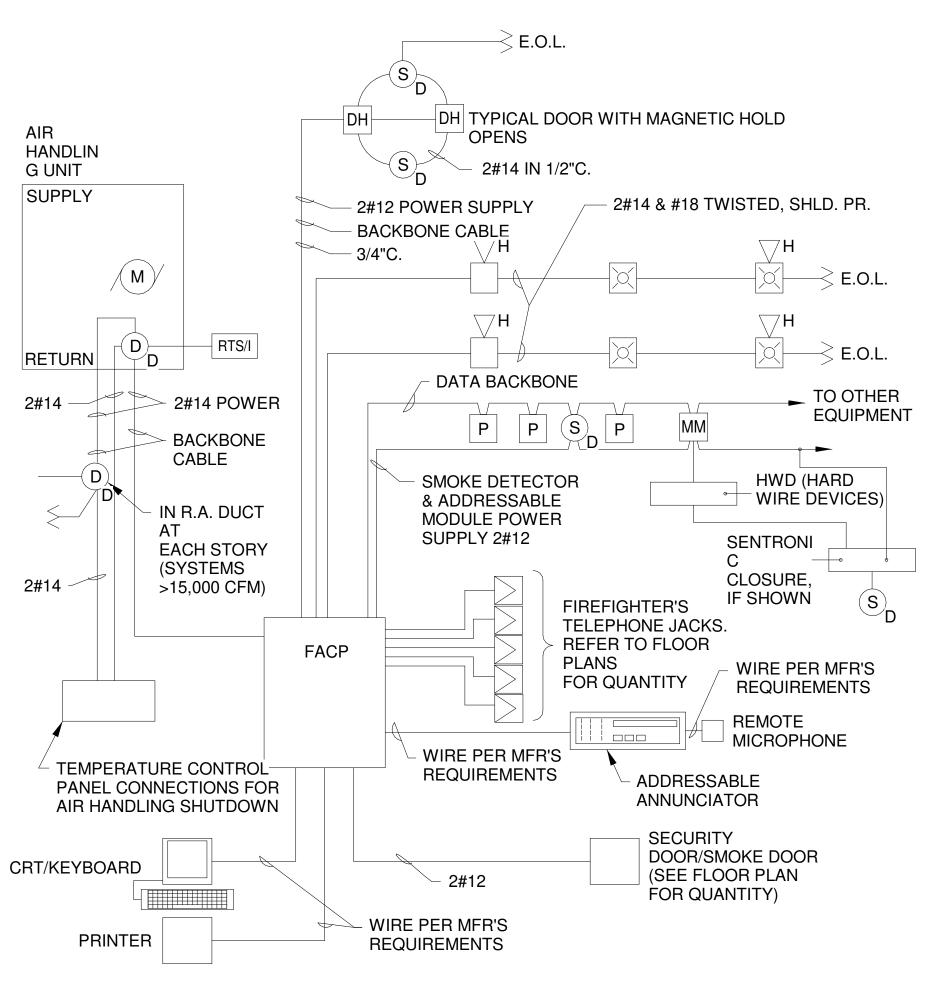
FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

LIGHTING DETAILS

SHEET NUMBER:

STATE OF

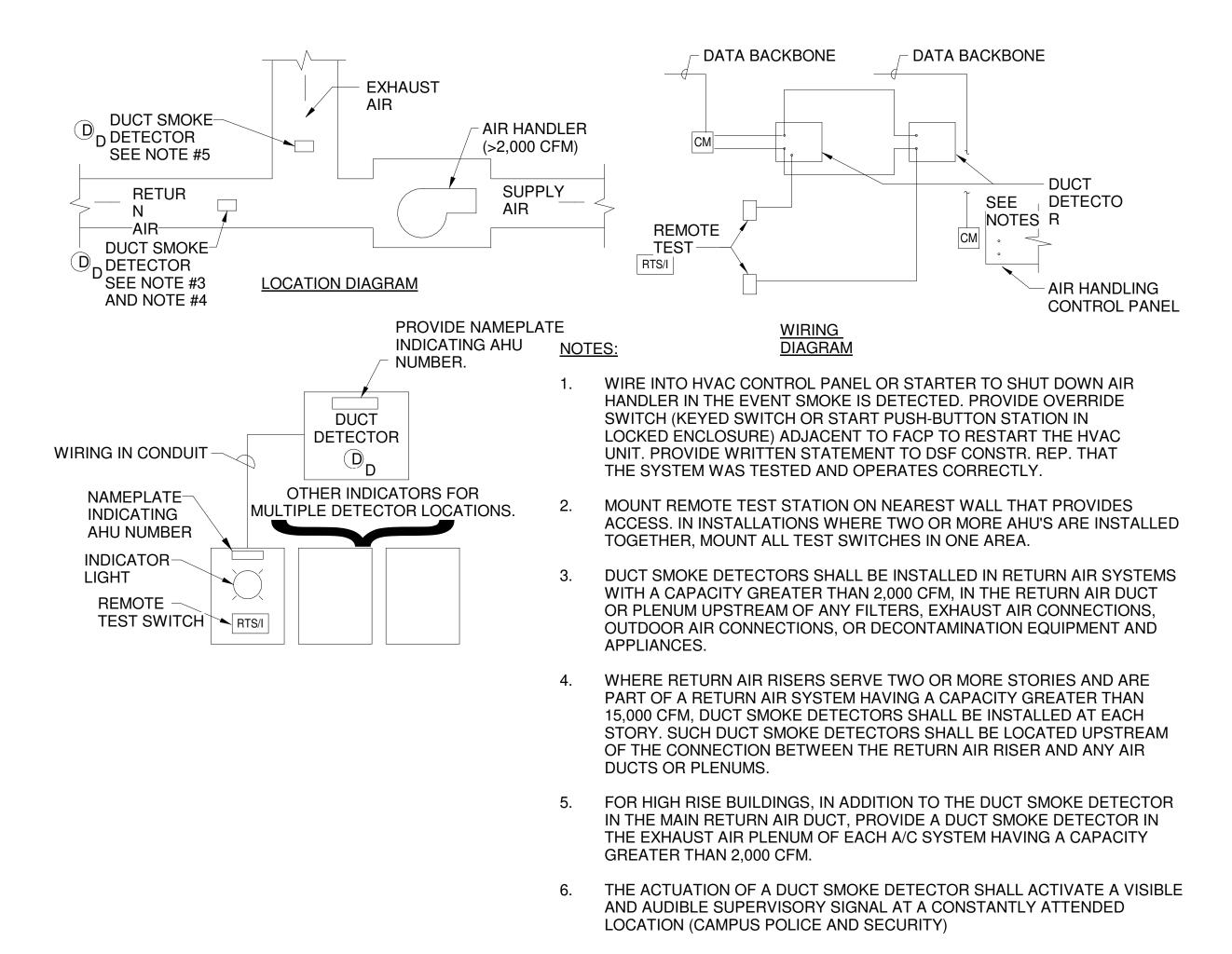


NOTES

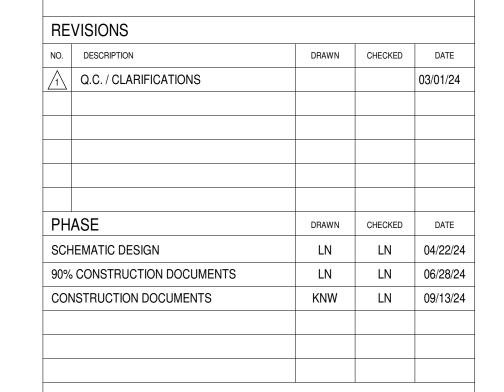
THIS IS A COMPREHENSIVE DETAIL/RISER. ALL EQUIPMENT SHOWN ON THIS RISER MAY NOT APPLY. SEE FLOOR PLANS AND SPECIFICATIONS FOR ACTUAL DEVICES AND EQUIPMENT REQUIRED.

- 1. E.O.L. = END OF LINE RESISTOR
- 2. HWD = SPRINKLER, DOOR CLOSURES (SENTRONIC)
- 3. MOUNT ANNUNCIATOR 60" AFF TO CENTER.
- 4. R.A. = RETURN AIR











CONSULTANTS:



PROJECT:

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

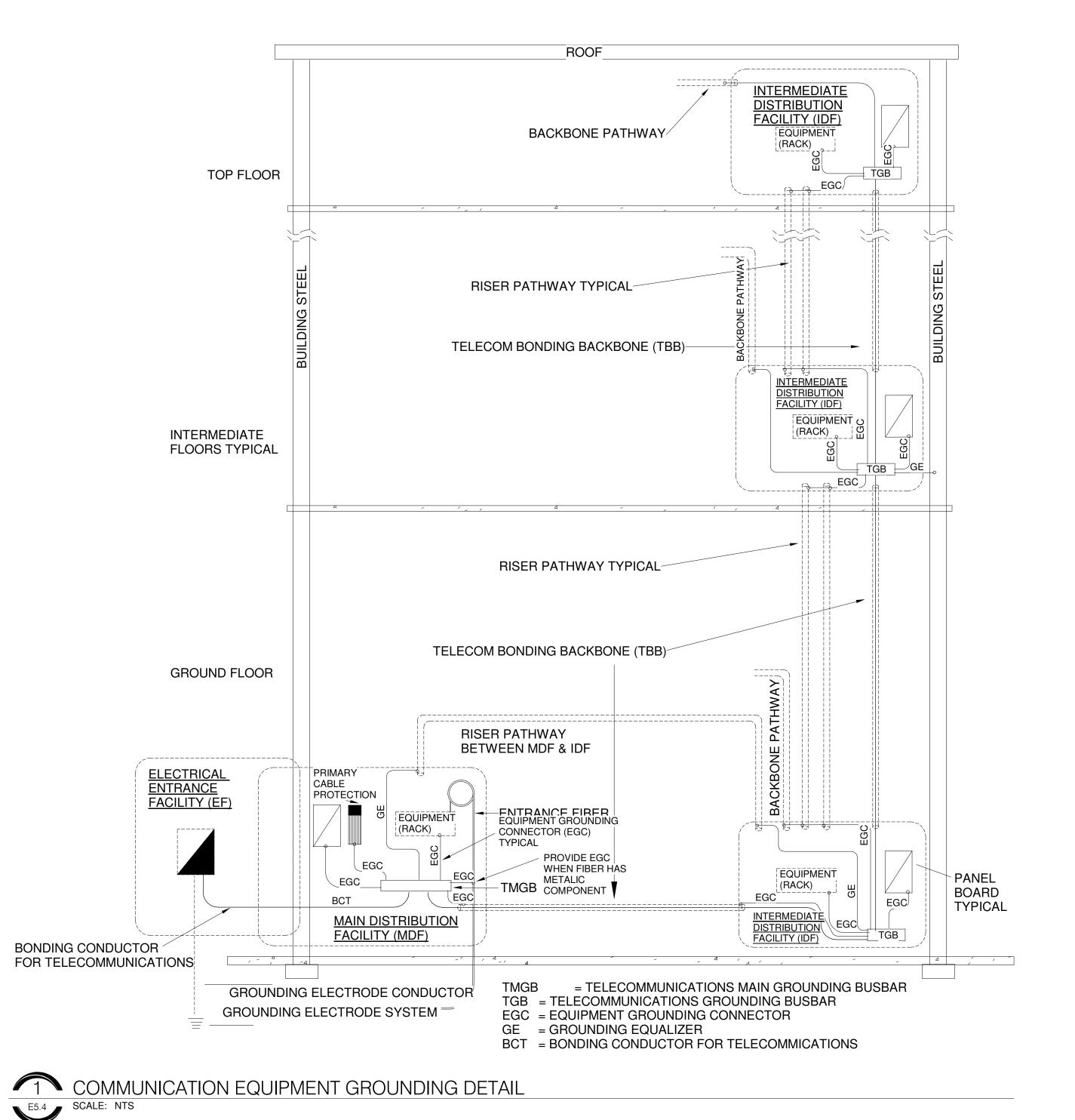
TALLAHASSEE, FLORIDA

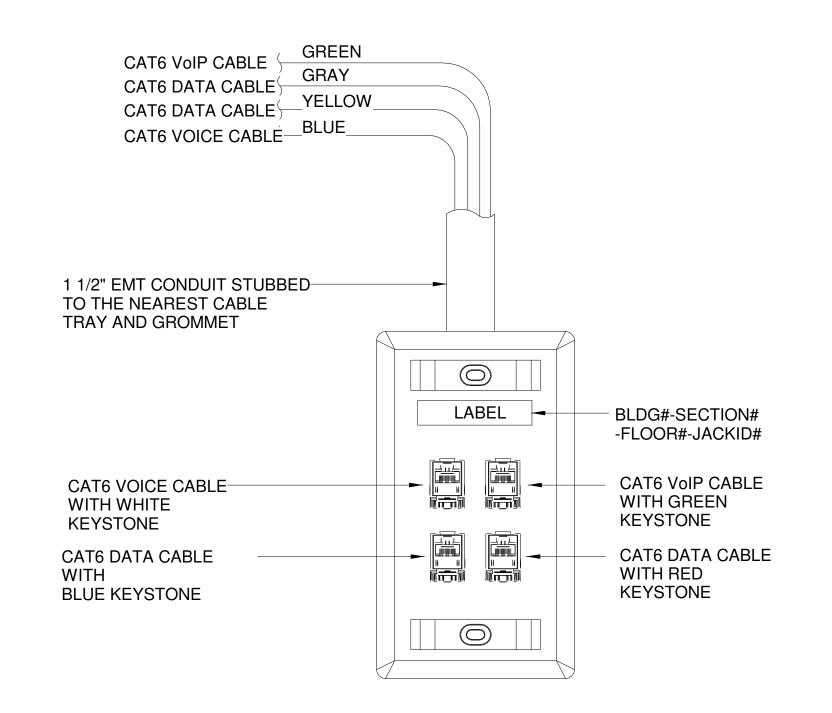
CUEETTITIE

FIRE ALARM DETAILS

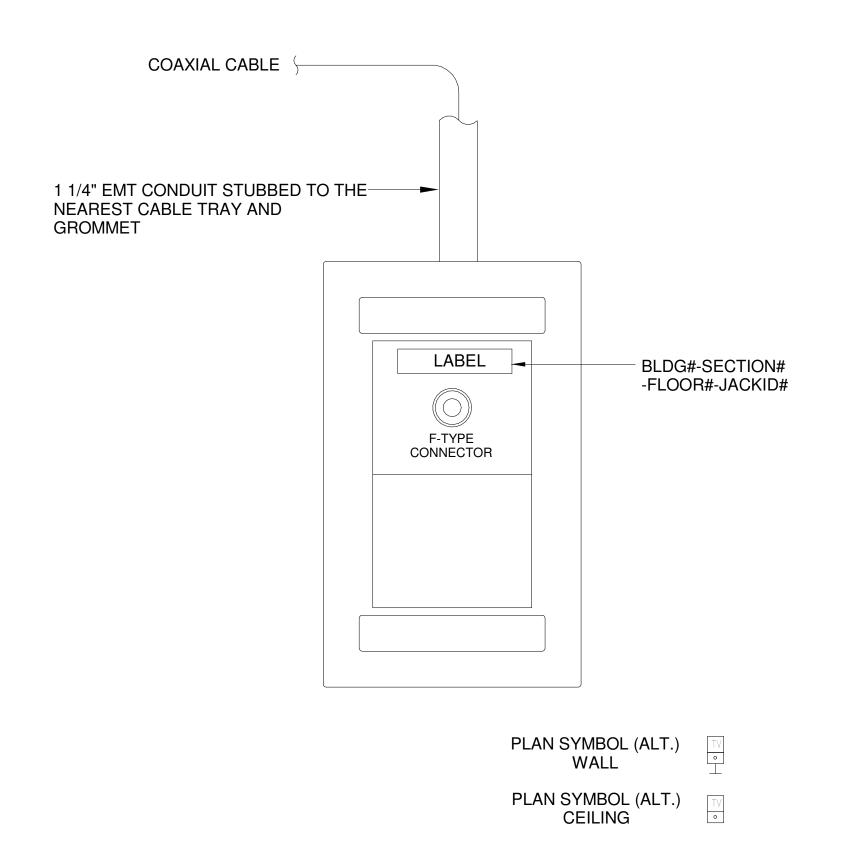
SHEET NUMBER:

E5.3











RE'	VISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PH	ASE	DRAWN	CHECKED	DATE
SCH	IEMATIC DESIGN	LN	LN	04/22/24
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/24
CON	ISTRUCTION DOCUMENTS	KNW	LN	09/13/24



CONSULTANTS:



PROJECT:

FLORIDA A&M UNIVERSITY
RATTLER POINT
WASH HOUSE BUILD OUT
DESIGN

TALLAHASSEE, FLORIDA

SHEET TITLE:

TELECOM DETAILS

SHEET NUMBER:

E5.4

No. 90934

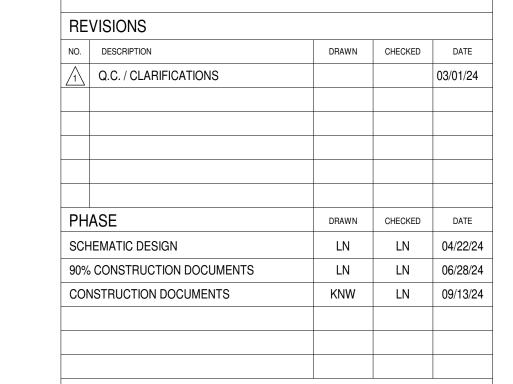
STATE OF

BA	ASIS OF DESIGN:			BUSS	RATING:	200A		FEEDER								
D,	SUPPLY FROM: UTILITY			5000	MCB:	200A		PHASES: REUSE EXISTING								
	MOUNTING: RECESSED		IF MI O	, UPSTREA		N/A		NEUTRAL: REUSE EXISTING								
	ENCLOSURE: NEMA 1		20	-	RATING:	100%				GROUND: REUSE EXISTING						
	VOLTS: 120/240			III O I I I		NO				CONDUIT: REUSE EXISTING						
	PHASES: 1				SPD:					# OF RUNS: REUSE EXISTING						
	WIRES: 3		# OF VE	RTICAL S	ECTIONS:	_				TOTAL AMPACITY: 200A						
	KAIC:		# 3 . 12			•				2007						
NOTES:	10.10.															
			BREAKER	PHASI	E (kVA)	PHASI	E (kVA)	BREAK	FR							
CKT	LOAD	Р	TRIP	A	B	A	B	TRIP	P	LOAD	CKT					
1	MAIL ROOM REC	1	20	0.90	-	-	0.12	20	1	EXTERIOR LIGHTS	2					
3	STORAGE 102 REC	1	20	-	0.54	0.22	-	20	1	LIGHTS - STORAGE 103	4					
5	STORAGE 102 REC	1	20	0.54	-	-	0.26	20	1	LIGHTS - STORAGE 102/MAIL ROOM	6					
7	STORAGE 103 REC	1	20	-	0.72	0.12	-	20	1	EXTERIOR LIGHTS	8					
9	STORAGE 103 REC	1	20	0.54	-	-	5.00	50	2	UPS CHARGER	10					
11	EXTERIOR MAINTENANCE REC	1	20	-	0.36	5.00	-	-	-	-	12					
13	SPARE	1	20					20	1	SPARE	14					
15	SPARE	1	20					20	1	SPARE	16					
17	SPARE	1	20					20	1	SPARE	18					
19	SPARE	1	20					20	1	SPARE	20					
21	SPARE	1	20					20	1	SPARE	22					
23	SPARE	1	20					20	1	SPARE	24					
25	SPARE	1	20					20	1	SPARE	26					
27	SPARE	1	20					20	1	SPARE	28					
29	SPARE	1	20					20	1	SPARE	30					
31	SPARE	1	20					20	1	SPARE	32					
33	SPARE	1	20					20	1	SPARE	34					
35	SPARE	1	20					20	1	SPARE	36					
37	SPARE	1	20					20	1	SPARE	38					
39	SPARE	1	20			11.51		125	2	PANEL EP1	40					
41	SPARE	1	20				11.66	-	-	-	42					
			PHASE LOAD (kVA):	2.0	1.6	16.9	17.0			HI PHASE (AMPS): 142.0						
	TOTAL (CONNE	ECTED LOAD (kVA):		37.5					TOTAL (AMPS): 156.2						

	BASIS OF DESIGN:			BUSS	RATING:	125A					FEEDER
	SUPPLY FROM: GENERATOR				MCB:	125A				PHASES:	
	MOUNTING: RECESSED		IF MLO	, UPSTREA	AM OCPD:	N/A				NEUTRAL:	#1
	ENCLOSURE: NEMA 1				. RATING:					GROUND:	#6
	VOLTS : 120/240				PQM:					CONDUIT:	
	PHASES: 1				SPD:	NO				# OF RUNS:	1
	WIRES: 3		# OF VE	ERTICAL S	ECTIONS:	1				TOTAL AMPACITY:	130A
	KAIC:										
NOTES:											
CVT	LOAD		BREAKER	PHASE	(kVA)	PHASE	(kVA)	BREA	KER	LOAD	СК
CKT	LOAD	Р	TRIP	Α	В	Α	В	TRIP	Р	LUAD	CN
1	AHU	2	30	3.20	-	1.20	-	15	2	DSSO	2
3	-	-	-	-	3.20	-	1.20	-	-	-	4
5	HP	2	25	1.80	-	1.20	-	15	2	DSSO	6
7	-	-	-	-	1.80	-	1.20	-	-	-	8
9	IT ROOM REC	1	20	-	0.72	1.20	-	15	2	DSSO	10
11	IT ROOM REC	1	20	0.72	-	-	1.20	-	-	-	12
13	IT ROOM REC	1	20	-	0.72	0.15		20	1	IT ROOM LIGH	TS 14
15	IT ROOM REC	1	20	0.72	-		-	20	1	SPARE	16
17	IT ROOM REC	1	20	-	0.72	-		20	1	SPARE	18
19	IT ROOM REC	1	20	0.72	-		-	20	1	SPARE	20
21	IT ROOM REC AND T.V.	1	20	-	0.90	-		20	1	SPARE	22
23	GENERATOR HEATER	1	20	0.60	-		-	20	1	SPARE	24
25	SPARE	1	20	-		-		20	1	SPARE	26
27	SPARE	1	20		-		-	20	1	SPARE	28
29	SPARE	1	20	-		-		20	1	SPARE	30
31	SPARE	1	20		-		-	20	1	SPARE	32
33	SPARE	1	20	-		-		20	1	SPARE	34
35	SPARE	1	20		-		-	20	1	SPARE	36
37	SPARE	1	20	-		-		20	1	SPARE	38
39	SPARE	1	20		-		-	20	1	SPARE	40
	SPARE	1	20	_		-		20	1	SPARE	42
41	OI 7 II IL		PHASE LOAD (kVA):	7.8	8.1	3.7	3.6			HI PHASE (AMPS):	

TAG	DESCRIPTION	MANUFACTURER	CATALOG #	OR EQUAL BY	COLOR TEMP	LUMENS	INPUT WATTS	DIMMABLE	VOLTAGE	COLOR	MOUNTING	NOTES
24P48	2X4 PANEL	DAYBRITE	2FXP-48L-840-4-FS-UNV- DIM	COLUMBIA COOPER TGS	4000K	~4800	36W	YES 0-10V	UNIV	WHITE	SURFACE	PROVIDE INTEGRAL DRIVER
XEB	EDGE-LIT EXIT SIGN W/BATTERY PACK	BEGHELLI	BRU-SA-LG-U-M-AT	PATHWAY EMERGILITE PRESCOLITE	4000K	-	2W	NO	UNIV	MIRROR W/GREEN TEXT	WALL OR CEILING AS INDICATED	PROVIDE ARROW AND FACES AS PER PLANS, PROVIDE EMERGENCY NICAD BATTERY BACKUP, MIRROR PANE BACKING, SELF-DIAGNOSTICS
LS28	LED SCONCE	GARDCO	111L-16L-550-NW-G2-3-120- PCB-FINISH	KIM BEGA	4000K	~2800	30W	NO	UNIV	BY ARCH	WALL	FULL CUTOFF - OUTSIDE WALL PACK
NOTES												
SCHEDULE 1	TO BE FINALIZED WITH	LIGHTING MANUFACTUR	RERS AND VENDORS PRIOR TO) BID								
IXTURES W	ITH HALF FILLED IN CE	ENTER OR SUBSCRIPT EI	M SHALL BE PROVIDED WITH A	A BATTERY PACK	. PROVIDE UNSW	/ITCHED NOF	RMAL CKT TO BAT	TERY PACK.				
PROVIDE 0-1	10V WIRES FROM SWIT	CH/CONTROLLER TO ALI	L 0-10V DIMMABLE FIXTURES.									
F THERE IS	A DISCREPANCY BETV	WEEN THE NOTES AND T	HE CATALOG NUMBER, THE N	OTES SHALL PRE	VAIL.							
PRIOR APPR	OVAL SUBMITTALS FO	R MANUFACTURERS NO	T LISTED MUST BE SUBMITTE	D TO THE ENGINE	ER 14 DAYS PRI	OR TO BID D	ATE FOR REVIEW	' <u>.</u>				
MANUFACTL	IRERS NOT LISTED WIL	L NOT BE ACCEPTED UN	NLESS APPROVED BY ADDEND	IJM PRIOR TO BI	ח							

TAG	EQUIPMENT DESCRIPTION	VOLTAGE	DUACE	WIDE	LOAD	DISCONNEC	DISCONNECT		₹	SPD	SERVING	OCPD TRIP	MCA				CIRCUIT	Γ			KEY NOT
IAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	WIKE	LOAD	TYPE	BY	TYPE	BY	שפט	PANEL	OCPD IRIP	MCA	QTY RUNS	PHASE	NEUTRAL	GROUND	CONDUIT	°C RATING	AMPACITY	KET NOI
AHU	AIR HANDLING UNIT	240	1	3	5KW	SS	ELEC	N/A	N/A	NO	P1	30	27	1	(2) 10	10	10	1/2"	60°	30 A	
DSSO	EXTERIOR SPLIT-SYSTEM UNIT (TO DSSI)	240	1	3	10A	SS	ELEC	N/A	N/A	NO	P1	15	10	1	(2) 12	12	12	1/2"	60°	20 A	
HP	EXTERIOR UNIT	240	1	3	15A	SS	ELEC	N/A	N/A	NO	P1	25	22	1	(2) 10	10	10	1/2"	60°	30 A	
GENERAL	DISCONNECT ABBREVIATIONS: SS = SAFETY SWITCH, FSS = FUS	D SAFETY SV	VITCH, CE	3 = SERVII	NG CB, TS = TO	GGLE SWITCH, TSM	1 = MOTOR	RATED TS, C&P = C	ORD & PL	UG, RELA	Y, ELEV DISC	= SPECIAL ELEVA	ATOR DISCO	NNECT		•					
NOTES	(FOR EXAMPLE: 90/100/3 N1 FSS INDICATES A 3 POLE 100A NEMA	1 FUSED SAF	ETY SWIT	CH WITH	90A FUSES)																
	STARTER ABBREVIATIONS: RELAY = MOTOR RATED POWER RELA	Y, FVNR = FV	NR MAGN	IETIC MOT	OR STARTER W	V/DISCONNECT, RVS	SS = REDU	ICED VOLTAGE SOLI	ID STATE	STARTER	W/DISCONNE	CT, VFD = VARIAE	BLE FREQUE	ENCY DRIVE W	/DISCONNE	ECT					
	OTHER ABBREVIATIONS: N1 = NEMA 1 ENCLOSURE, N3R = NEMA	R ENCLOSUR	RE, N4X =	NEMA 4X	STAINLESS STE	EL ENCLOSURE, W	/P = WEAT	HERPROOF, 60/3 = 6	OA 3 POLE	E, ELEC =	BY ELECTRIC	AL, MECH = BY M	ECHANICAL	, EQUIP = BY E	QUIPMENT	Γ, SPD = PR	OVIDE SPD A	T UNIT			
	OCPD, CONDUIT, WIRE, DISCONNECT, STARTER, ETC SIZES/RATII	IGS INDICATE	D ARE FO	R THE BA	ASIS OF DESIGN	I EQUIPMENT. EXAC	CT SIZES/R	ATINGS SHALL BE F	PROVIDED	THAT MA	TCH THE INST	TALLED MECHANI	CAL EQUIPN	MENT REQUIRE	MENTS.						
	OUZE ALL MOTOR OTARTERO AND OVERLOADS AS REQUIRED FOR	FOLIPMENT	BFING PO	WERED.																	
	SIZE ALL MOTOR STARTERS AND OVERLOADS AS REQUIRED FOR	LOOII IVILIAI																			







FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

ELECTRICAL SCHEDULES

DEVICE	MOUNTING HEIGHTS				
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.				
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.				
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.				
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.				
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.				
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.				
PLUGMOLD OR WIREMOLD	AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.				
CLOCK OUTLETS	12" CEILING TO CENTERLINE OR 7'-0" TO CENTERLINE IF CEILING IS OVER 8'-0".				
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.				
TELEPHONE OUTLETS - WALL TYPE	54" TO DIAL CENTER (NON-ACCESSIBLE). 48" TO HIGHEST OPERABLE PART (ACCESSIBLE).				
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.				
FIRE ALARM MANUAL PULL STATIONS	48" TO CENTERLINE OF BOX - NOT MORE THAN 5'-0" FROM EXIT.				
FIRE ALARM AUDIBLE ONLY DEVICE	NOT LESS THAN 90" TO TOP OR 6" BELOW CEILING, WHICH EVER IS HIGHER.				
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.				
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWER.				
AREA OF REFUGE TELEPHONE	SAME AS TELEPHONE - ACCESSIBLE.				
CALL FOR AID SWITCH WITH PULL CHAIN TO FLOOR	48" TO CENTERLINE OF BOX MINIMUM (TOILETS). 66" TO CENTERLINE OF BOX MAXIMUM (SHOWERS - LOCATED OUT OF SPRAY AREA).				
CARD READER	48" TO HIGHEST OPERABLE PART (SIDE OR FORWARD ACCESS).				
INTERCOM STATION	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).				
SOUND SYSTEM VOLUME CONTROL	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).				
MICROPHONE OUTLETS	16" TO BOTTOM OF BOX.				
THERMOSTATS	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).				

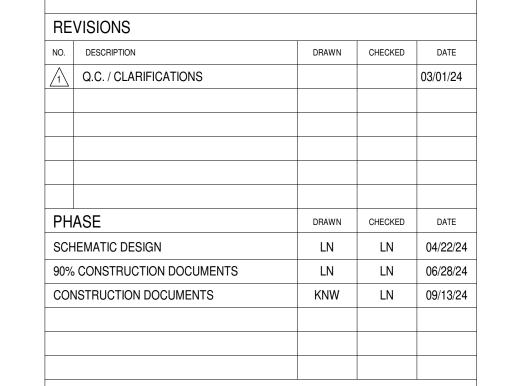
- 1. ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL
- NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.
- 2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.
- 3. OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.

SPECIAL NOTES:

- 1. EXIT SIGNS SHALL NOT BE INSTALLED IN A MANNER THAT THE SIGN WILL BLOCK FIRE ALARM VISUAL
- 2. FOR LIGHTING FIXTURES MOUNTING HEIGHTS SEE SCHEDULE AND DRAWINGS.

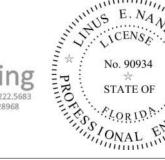
WIRE SIZING TABLE FOR 120V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE) PANELBOARD USE COPPER WIRE IN METALLIC IF DISTANCE (A+B) IN CONDUIT, AWG SIZE AS FEET IS: (SEE DIAGRAM FOLLOWS ON ENTIRE CIRCUIT AT RIGHT) AND SIZE CONDUIT ACCORDINGLY. LAST ON FIRST ON CIRCUIT. CIRCUIT. 0' TO 100' #12 AWG (MIN.) 100' TO 175' #10 AWG ── "B" FT. → 1/2 WIRE LENGTH FROM FIRST 175' TO 300' #8 AWG TO LAST RECEPTACLE OR 300' TO 450' #6 AWG (MAX.) LIGHTING FIXTURE ON CIRCUIT. FOR 277V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE) PANELBOARD IF DISTANCE (A+B) IN USE COPPER WIRE IN METALLIC FEET IS: (SEE DIAGRAM CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AT RIGHT) "A" AND SIZE CONDUIT FT. ACCORDINGLY. FIRST ON LAST ON CIRCUIT. CIRCUIT. #12 AWG (MIN.) 0' TO 250' 250' TO 400' #10 AWG "B" FT. 1/2 WIRE LENGTH FROM FIRST #8 AWG 400' TO 700' TO LAST LIGHTING FIXTURE ON 700' TO 1000' #6 AWG (MAX.) _CIRCUIT.__ 1. TABLES ARE BASED ON EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET. 2. 480V MOTOR BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG IN 3/4" C UNLESS OTHERWISE NOTED.

TAG	PHASE	WIRE	OT\/ =::::c	B.11.5=	NEUES :	CIRCUIT		_ 00 D4=::::	
00	-	2	QTY RUNS	PHASE	NEUTRAL	GROUND	CONDUIT	°C RATING	AMPACITY
30	3	3	1	(3) # 10	# N/A	# 10	1" 1"	60°	30 A
30	3	4	1	(3) # 10	# 10	# 10		60°	30 A
40	3	3	1	(3) # 8	# N/A	# 10	1-1/4"	60°	40 A
40	3	4	1	(3) # 8	# 8	# 10	1-1/4"	60°	40 A
50	3	3	1	(3) # 6	# N/A	# 10	1"	60°	55 A
50	3	4	1	(3) # 6	# 6	# 10	1"	60°	55 A
60	3	3	1	(3) # 4	# N/A	# 10	1-1/4"	60°	70 A
60	3	4	1	(3) # 4	# 4	# 10	1-1/4"	60°	70 A
70	3	3	1	(3) # 4	# N/A	# 8	1-1/4"	60°	70 A
70	3		1	(3) # 4	# 4 # N/A		1-1/4"		70 A 85 A
80	3	3	1	(3) # 3		# 8	1-1/4"	60°	
80	3	4	1	(3) # 3	# 3 # N/A	# 8	1-1/2"	60°	85 A
90	3	3	1	(3) # 2		# 8	1-1/2"	60°	95 A
90	3	4	1	(3) # 2	# 2	# 8	1-1/2"	60°	95 A
100	3	3	1	(3) # 1	# N/A	# 8	1-1/2"	60°	110 A
100	3	4	1	(3) # 1	# 1	# 8	1-1/2"	60°	110 A
125	3	3	1	(3) # 1	# N/A	# 6	1-1/2"	75°	130 A
125	3	4	1	(3) # 1	# 1	# 6	2"	75°	130 A
150	3	3	1	(3) # 1/0	# N/A	# 6	2"	75°	150 A
150	3	4	1	(3) # 1/0	# 1/0	# 6	2"	75°	150 A
175	3	3	1	(3) # 2/0	# N/A	# 6	2"	75°	175 A
175	3	4	1	(3) # 2/0	# 2/0	# 6	2"	75°	175 A
200	3	3	1	(3) # 3/0	# N/A	# 6	2"	75°	200 A
200	3	4	1	(3) # 3/0	# 3/0	# 6	2-1/2"	75°	200 A
225	3	3	1	(3) # 4/0	# N/A	# 4	2-1/2"	75°	230 A
225	3	4	1	(3) # 4/0	# 4/0	# 4	3"	75°	230 A
250	3	3	1	(3) # 250	# N/A	# 4	2-1/2"	75°	255 A
250	3	4	1	(3) # 250	# 250	# 4	3"	75°	255 A
300	3	3	1	(3) # 350	# N/A	# 4	3"	75°	310 A
300	3	4	1	(3) # 350	# 350	# 4	3"	75°	310 A
400	3	3	2	(3) # 3/0	# N/A	# 3	2"	75°	400 A
400	3	4	2	(3) # 3/0	# 3/0	# 3	2-1/2"	75°	400 A
500	3	3	2	(3) # 250	# N/A	# 2	2-1/2"	75°	510 A
500	3	4	2	(3) # 250	# 250	# 2	3"	75°	510 A
600	3	3	2	(3) # 350	# N/A	# 1	3"	75°	620 A
600	3	4	2	(3) # 350	# 350	# 1	3"	75°	620 A
800	3	3	3	(3) # 300	# N/A	# 1/0	3"	75°	855 A
800	3	4	3	(3) # 300	# 300	# 1/0	3"	75°	855 A
1000	3	3	3	(3) # 400	# N/A	# 2/0	3"	75°	1005 A
1000	3	4	3	(3) # 400	# 400	# 2/0	3-1/2"	75°	1005 A
1200	3	3	4	(3) # 350	# N/A	# 3/0	3"	75°	1240 A
1200	3	4	4	(3) # 350	# 350	# 3/0	3-1/2"	75°	1240 A
1600	3	3	5	(3) # 400	# N/A	# 4/0	3"	75°	1675 A
1600	3	4	5	(3) # 400	# 400	# 4/0	3-1/2"	75°	1675 A
2000	3	3	6	(3) # 400	# N/A	# 250	3-1/2"	75°	2010 A
2000	3	4	6	(3) # 400	# 400	# 250	3-1/2"	75°	2010 A
2500	3	3	7	(3) # 500	# N/A	# 350	3-1/2"	75°	2660 A
2500	3	4	7	(3) # 500	# 500	# 350	3-1/2"	75°	2660 A
3000	3	3	8	(3) # 500	# N/A	# 400	3-1/2"	75°	3040 A
3000	3	4	8	(3) # 500	# 500	# 400	4"	75°	3040 A
4000	3	3	11	(3) # 500	# N/A	# 500	3-1/2"	75°	4180 A
	3	4	11	(3) # 500	# 500	# 500	4"	75°	4180 A









FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

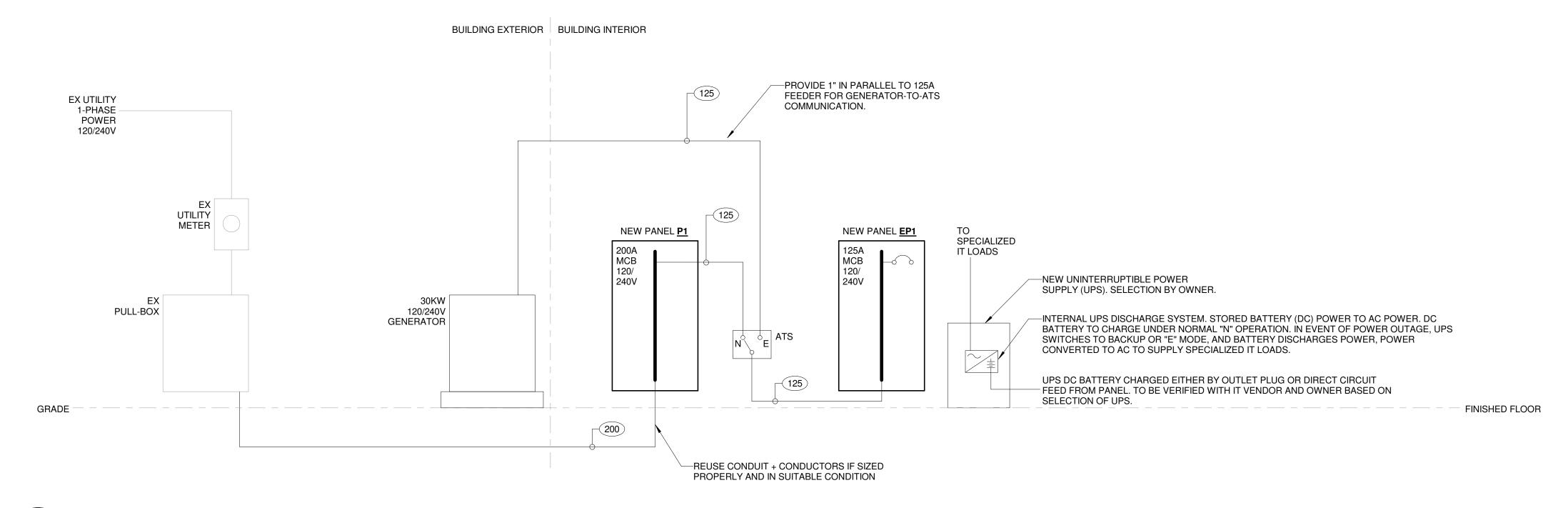
TALLAHASSEE, FLORIDA

ELECTRICAL SCHEDULES

SHEET NUMBER:

3. SIZE OF CONDUCTORS ARE BASED UPON EACH MOTOR BEING FED WITH SEPARATE CONDUIT. IF CONDUCTORS

FOR TWO MOTORS (MAX.) ARE TO BE COMBINED IN ONE CONDUIT, INCREASE THE SIZE OF CONDUCTORS AND



1 ELECTRICAL SINGLE-LINE DIAGRAM
E7.1 SCALE: NTS

NO.	DESCRIPTION	DRAWN	CHECKED	DATE
1	Q.C. / CLARIFICATIONS			03/01/24
PHA	ASE	DRAWN	CHECKED	DATE
SCH	EMATIC DESIGN	LN	LN	04/22/2
90%	CONSTRUCTION DOCUMENTS	LN	LN	06/28/2
CONSTRUCTION DOCUMENTS		KNW	LN	09/13/2



CONSULTANTS:



PROJEC

FLORIDA A&M UNIVERSITY RATTLER POINT WASH HOUSE BUILD OUT DESIGN

TALLAHASSEE, FLORIDA

SHEET TITLE:

SINGLE-LINE DIAGRAM

SHEET NUMBER:

E7.1