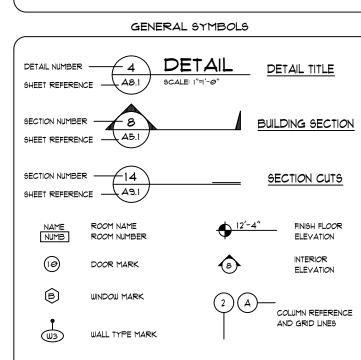
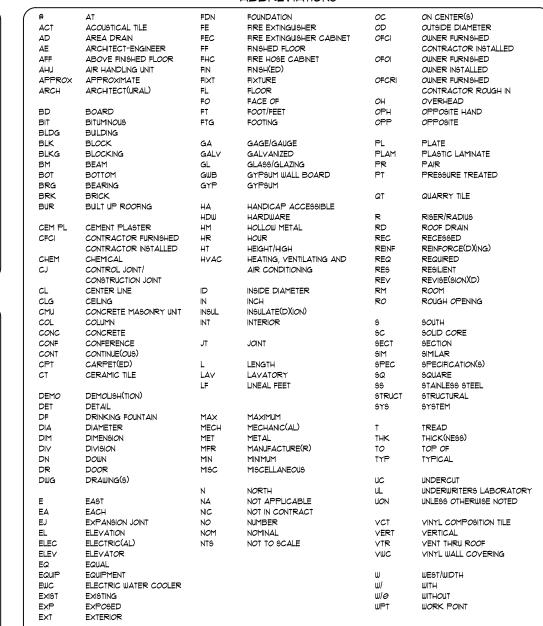
EAGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING WALTON COUNTY FLORIDA

SYMBOL LEGEND

MATERIAL SYMBOLS GRANULAR FILI ACOUSTICAL OR GWB/PLASTER/ BRICK (CONTINUOUS)





GENERAL NOTES

. ALL WORK SHALL BE IN ACCORDANCE WITH THE CODES REFERENCED IN THESE DOCUMENTS AND AS ADPOTED AND SUPPLEMENTED BY LOCAL REGULATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL BUILDING PERMITS FROM THE LOCAL BUILDING DEPARTMENTS AS REQUIRED BY CITY/COUNTY REGULATIONS FEES FOR SUCH PERMITS SHALL BE PAID BY THE CONTRACTOR AND A SET OF APPROVED DRAWINGS AND ORIGINAL PERMITS SHALL BE RETAINED ON SITE FOR THE DURATION OF THE PROJECT.

3. THE DESIGN INFORMATION SHOWN ON THE DRAWINGS PROVIDES OVERALL DIMENSIONAL PARAMETERS AND DESCRIBES ELEMENTS TO BE CONSTRUCTED. THE CONTRACTOR SHALL ADJUST DIMENSIONS AND DETAILS AS REQUIRED TO FIT EXISTING CONDITIONS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ALL PROPOSED

4. NO CHANGES TO THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT OR ENGINEER, AS APPICABLE.

5. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES ON THESE DOCUMENTS.

6. ALL EXTERIOR COMPONENTS SHALL HAVE FLORIDA APPROVAL NUMBERS.

1. EXTERIOR GLAZING SHALL BE IMPACT RATED WHEN

REQUIRED BY THE LOCAL AHJ. 8. EXTERIOR DOORS SHALL BE IMPACT RATED WHEN

REQUIRED BY THE LOCAL AHJ.

9. FIRE SPINKLER / FIRE ALARM IF REQUIRED SHALL BE DESIGNED BY OTHERS AS REQUIRED TO MEET FBC 2020 NFPA, \$ FLORIDA FIRE PREVENTION CODE WHEN REQUIRED BY THE LOCAL AHJ.

SHOP DRAWINGS

COPIES OF ALL SHOP DRAWINGS FOR STRUCTURAL OR LIFE SAFETY RELATED COMPONENTS SHALL BE SUBMITTED TO THE ARCHITECT \$ OWNER FOR APPROVAL.

THE CONTRACTOR SHALL SUBMIT DETAILED FABRICATION AND INSTALLATION DRAWINGS AND PRODUCT LITERATURE FOR THE FOLLOWING ITEMS. ARCHITECT REVIEW OF SHOP DRAWING IS FOR COMPLIANCE OF THE PRODUCT WITH THE DESIGN CONCEPTS DELINEATED IN THESE DOCUMENTS. THE CONTRACTOR AND/OR PRODUCT MANUFACTURER SHALL BE RESPONSIBLE FOR THE ACCURACY AND PERFORMANCE OF THE PRODUCT AND ITS COORDINATION WITH THE OTHER TRADES.

. STRUCTURAL STEEL 2. METAL STUD FRAMING B. ROOF TRUSSES, LVL, \$ PRE-ENGINEERED BEAMS

4. REINFORCING STEEL 5. CONCRETE DESIGN MIXES

6. WATERPROOF MEMBRANES

1. RAILINGS \$ HANDRAILS 8. ARCHITECTURAL PRE-CAST OR PRE-FORMED COLUMNS 9. APPLIED FOAM TRIM, WINDOW/DOOR HEADS, AND

BUILDING DESIGN DATA

2023 FLORIDA BUILDING CODE, BUILDING, 8TH EDITION

2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION 2023 FLORIDA BUILDING CODE, MECHANICAL, 8TH EDTION, 2023 FLORIDA BUILIDNG CODE, FUEL GAS, 8TH EDITION

NFPA 101 LIFE SAFETY CODE 2020 W/ AMENDMENTS

2023 FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION

REFER TO OTHER DRAWINGS FOR OTHER APPLICABLE CODES

METAL BUILDING - EQUIPMENT STORAGE AND OFFICE SPACE

NOTE:

THIS PROJECT IS A PRE-MANUFACTURED METAL BUILDING

(PEMB). THE PEMB MANUFACTURER IS RESPONSIBLE FOR ALL

STRUCTURAL DESIGN ELEMENTS INCLUDING WIND LOADING AND LATERAL BRACING, WALL AND ROOF FRAMING, ALL FRAMING

ELEMENTS FOR WINDOW AND DOOR OPENINGS, INCLUDING THE

OVERHEAD DOORS ETC. REFER TO STRUCTURAL DOCUMENTS

FOR FOUNDATION DESIGN. THE PEMB SUPPLIER SHALL SUBMIT

FULL SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE

STRUCTURAL ENGINEER, ARCHITECT, AND THE LOCAL AHJ'S.

REGISTERED IN THE STATE OF FLORIDA.

THESE SHOP DRAWINGS SHALL INCLUDE ALL REACTIONS AND DESIGN PRESSURES FOR EXTERIOR COMPONENTS. THESE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER

2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION, 8TH EDITION

APPLICABLE CODES

FLORIDA FIRE PREVENTION CODE NATIONAL ELECTRICAL CODE 2017

FLORIDA ADMINISTRATIVE CODE

PROJECT DATA

FLORIDA STATUTES

TOTAL SF = 9.600 SF

ARCHITECTURAL DETAILING 10. BATHROOM ACCESSOIRES \$ MIRRORS 1. ALL FOOR, WALL , AND CEILING FINISHES

2. ALL CABINETRY 13. ELEVATORS 14. STAIRS AND HANDRAILS 15. ALL HEATING \$ VENTILATING EQUIPMENT

16. ELECTRICAL FIXTURES \$ EQUIPMENT 1. ALL PLUBMING FIXTURES 18. DOORS, WINDOWS, AND ALL HARDWARE 19. FIREPLACES

20. APPLIANCES

PERFORMANCE STANDARDS

ALL MATERIALS, PRODUCTS AND THEIR INSTALLAITON SHALL MEET THE PRODUCT APPROVAL OF AND BE INSTALLED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED BY THE FOLLOWING AGENCIES, AS APPICALBE

ASTM AMERCIAN SOCIETY OF TESTING MATERIALS ACI - AMERICAN CONCRETE INSTITUE AF\$PA - AMERICAN FOREST \$ PAPER ASSSOCIATION AISC - AMERICAN INSTITURE OF STEEL CONSTRUCTION AWI - AMERICAN WOODWORK INSTITUTE

AWPB - AMERICAN WOOD PERSERVATIVES BUREAU

ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE AAMA - ARCHITECTURAL ALUMINUM MANUFACTURE'RS ASSOCIATION FBC - FLORIDA BUILDING CODE GA - GYPSUM ASSOCIATION LSC - LIFE SAFETY CODE

NFPA - NATIONAL FIRE RPOTECTION ASSOCIATION NDW - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION OSHA - OCCKUPATIONAL SAFETY AND HEALTH ACT SJI - STEEL JOIST INSTITUE

TCA - TILE COUNCIL OF AMERICA UL - UNERWRITERS LABORATORIES

NER - NATIONAL EVALUATION SERVICE INC

ARCHITECT NOT RESPSONIBLE FOR ANY CIVIL WORK, SITE WORK, LANDSCAPE DESIGN, FIRE SUPPRESSION SYSTEMS, OR ANY OTHER WORK NOT SPECIFICALLY ADDRESSED BY THESE DOCUMENTS.

INDEX OF DRAWINGS

MAIN BUILDING AIOO COVER

AIØI.5 FLOOR PLAN A102 ELEVATIONS

A103 ELEVATIONS

A105 ENLARGED BATHROOMS

STRUCTURAL DRAWINGS SOOI SPECIFICATIONS / NOTES

MOOI SCHEDULES MIGO HYAC PLAN MIØI HYAC DETAILS MI 02 HYAC DETAILS

ELECTRICAL ENGINEERING

P.O. BOX 1399 PANAMA CITY, FL. 32401 (850) 630.4483

AR 0012593 RAJARCH@MSN.COM

STEPHENS MECHANICAL ENG, LLC 925 TOMMY MUNRO DR BILOXI, MS 39532 (228) 2*0*7-3322

ATLAS ENGINEERING AND CONSULTING 455 HARRISON AVE, SUITE B PANAMA CITY, FL (850) 257.5316 INFO@ATLASENGINEERINGFL.COM **REGISTRY NO. 34399**

ELECTRICAL ENGINEER WELCON ELECTRICAL CONSULTANTS , PLLC 14116 CUSTOMS BLVD, SUITE #111 GULFPORT, MS 39503

AIOI LIFE SAFETY PLAN

BUILDING SECTION

FOUNDATION PLAN

S501 DETAILS

MECHANICAL / PLUMBING

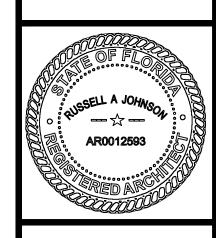
POOI NOTES AND DETAILS PIOO BELOW FLOOR SANITARY PIOI ABOVE FLOOR PLUMBING PLAN PIO2 PARTIAL PLUMBING PLAN PIO3 SANITARY SEWER RISER

EI 00 ELECTRICAL NOTES EIØI NOTES E1002 ELECTRICAL PLANS

RUSSELL JOHNSON, ARCHITECT

MECHANICAL ENGINEER (228).822.8000

R F Z



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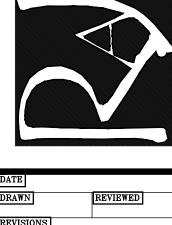
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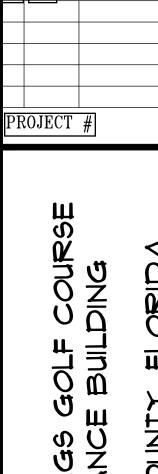
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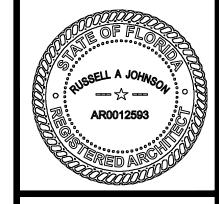
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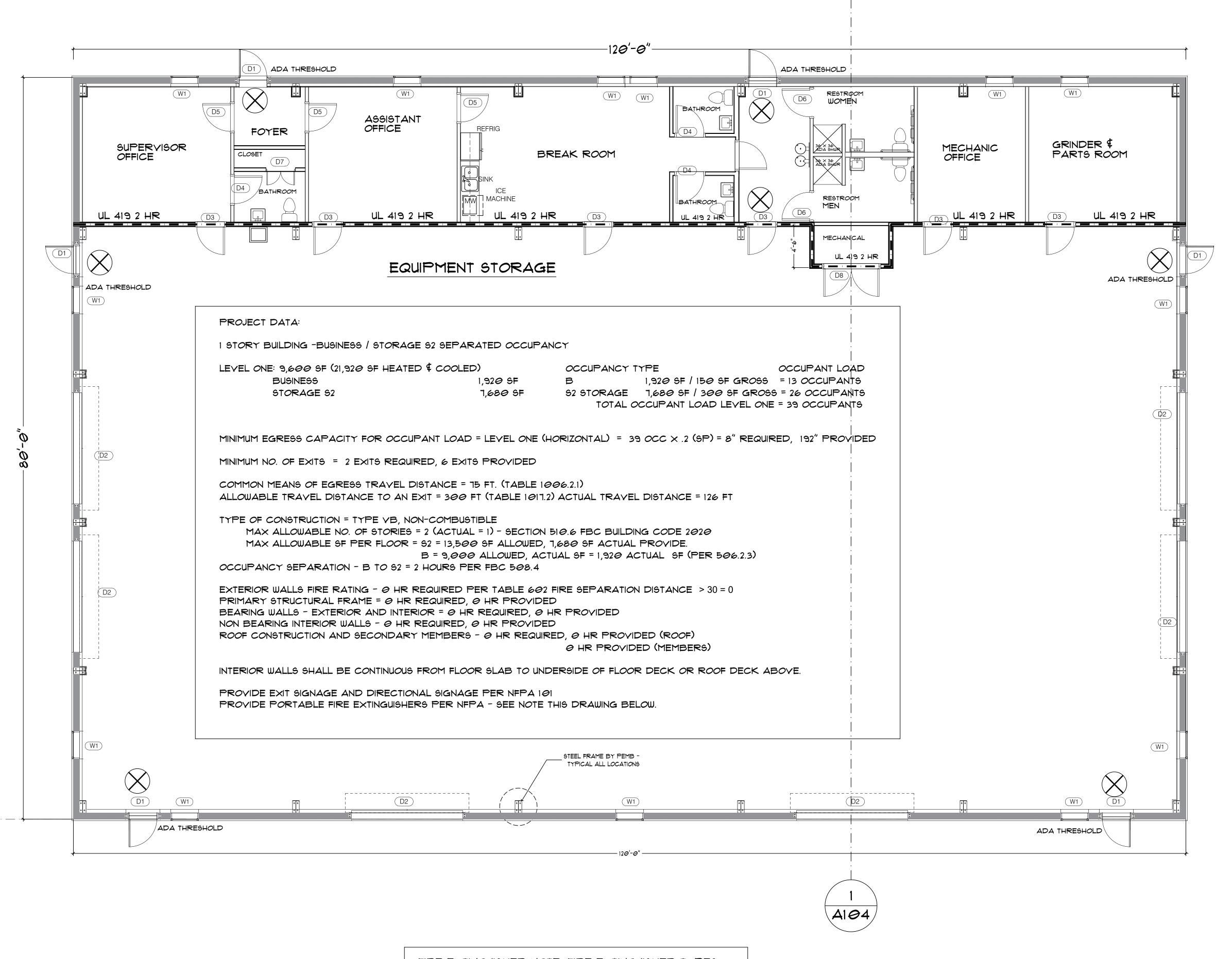
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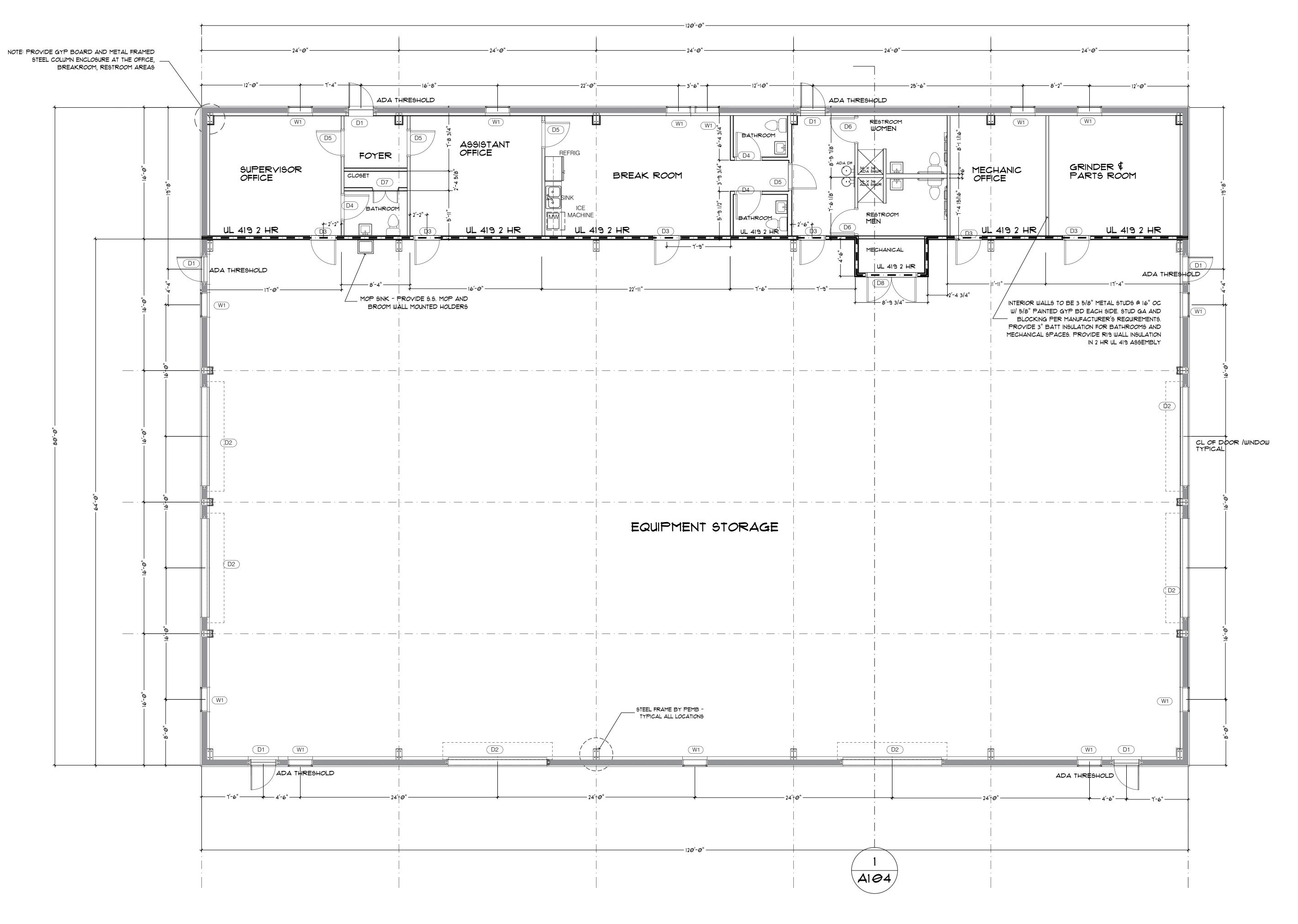
FIRE EXTINGUISHER NOTE: FIRE EXTINGUISHER TYPES, SIZES, AND LOCATIONS SHALL BE IN COMPLIANCE W/ APPLICABLE CODES AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL BY THE AHJ.



DESIGNATED EXITS

INDICATES 2 HR WALL ASSEMBLY
UL 419 OR APPROYED EQUAL

LIFE SAFETY PLAN
FLOOR PLAN
SCALE: 3/16" = 1'-0"



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

INDICATES 2 HR WALL ASSEMBLY UL 419 OR APPROVED EQUAL





PROJECT #



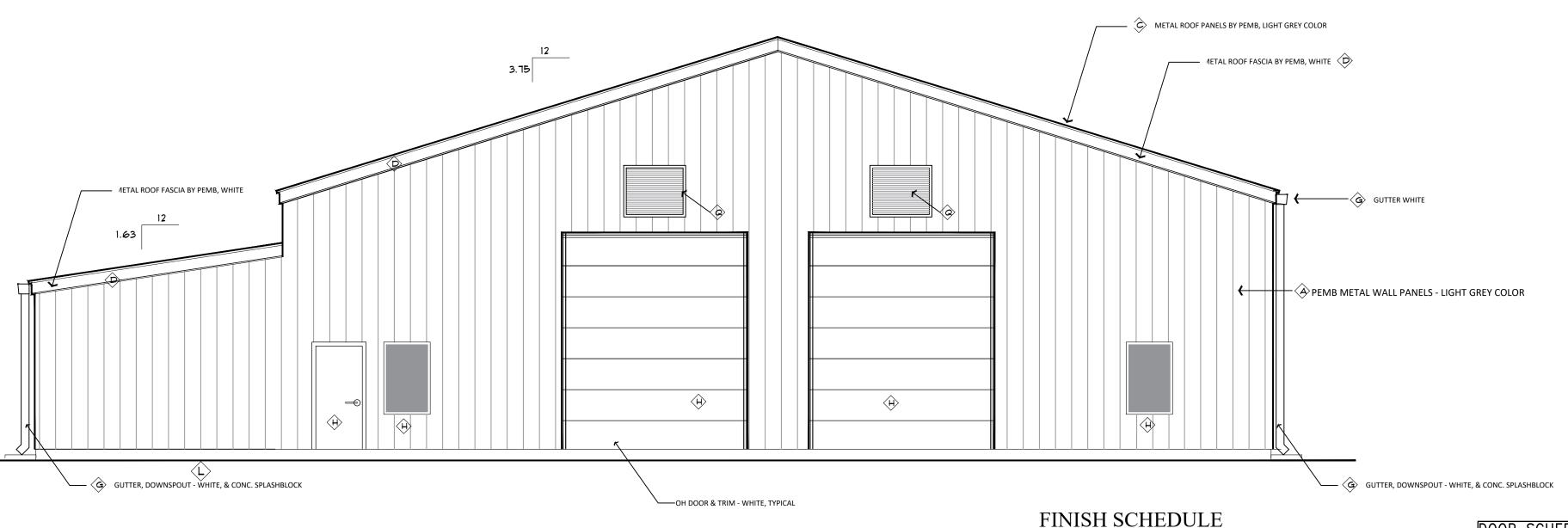
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RUSSELL

REVIEWED

A - 101.5

FRONT ELEVATION



WINDOW SCHEDULE

CODE	DESCRIPTION
W1	3'-4" W X 4'-8" H SINGLE HUNG

NOTE: THE BASIS OF DESIGN FOR THE WINDOWS SHALL BE ALUMINUM FIXED "KAWNEER" SERIES 8400TL- FRAME COLOR WHITE AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLORS. APPROVED EQUALS ARE ACCEPTED IF APPROVED BY OWNER.

KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE

LEGEND

PEMB METAL WALL PANELS - LIGHT GREY COLOR

B STEEL PEMB FRAME

METAL ROOF PANELS

ROOF FASCIA BY PEMB, WHITE

⟨E⟩ PEMB Z-GIRTS

WALL INSULATION W/ VAPOR RETARDER -IN COMPLIANCE W/ FBC ENERGY CODE -PROVIDE OWNER WITH A DEDUCT ALTERNATE TO DELETE THE WALL INSULATION IN THE EQUIPMENT STORAGE AREA ONLY - ONLY THE THREE EXTERIOR WALLS - NOT THE 2 HR WALL SEPARATION

GUTTER, DOWNSPOUT, & CONC. SPLASHBLOCK

⟨H⟩ WINDOW OR DOOR - WHITE TRIM

ROOF INSULATION W/ VAPOR RETARDER -IN COMPLIANCE W/ FBC ENERGY CODE -

3 FT H METAL PANELS BY PEMB IN STORAGE AREA

CEILING - 5/8" TYPE X PAINTED GYP BD, COORDINATE W/ OWNER ON 6" 18 GA CEILING JOISTS @ 16" OC. TYPICAL ALL SPACES EXCEPT MAIN STORAGE AREA BRACE TO STRUCTURE ABOVE AS REQUIRED

CONCRETE FOUNDATION - REFER TO STRUCTURAL

3-5/8" METAL STUDS (6" @ PLUMBING WALLS IF REQUIRED) @ 16" OC W/ 5/8" TYPE X PAINTED GYP BD METAL STUD GAUGE, BRACING, ETC SHALL BE PER SIGNED AND SEALED SHOP DRAWINGS FROM THE METAL STUD MANUFACTURER PROVIDE 3.5" BATT INSULATION ALL INTERIOR WALLS THAT ABUTT THE MAIN STORAGE AREA AND ALL MECHANICAL AND BATHROOMS. PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN

N CONCRETE FLOOR SLAB - REFER TO STRUCTURAL, PROVIDE VAPOR BARRIER

2 HOUR WALL ASSEMBLY

PROVIDE UL APPROVED FIRE CAULKING SYSTEM MATCHING FIRE RATING OF WALL @ STEEL BEAM PENETRATIONS

LOUVERS - COORDINATE W/ MECHANICAL DRAWINGS

PROVIDE UL APPROVED 2HR ASSEMBLY UL I 506 OR APPROVED EQUAL (2) LAYERS 5/8" TYPE ULIX GYP BD, LOOSELY LAID ON TOP OF MIN 6" D STEEL JOISTS @16" OC AND (3) LAYERS TYPE ULIX GYP BD ATTACHED TO THE BOTTOM OF THE STEEL CEILING JOISTS.

RIGHT SIDE ELEVATION INTERIOR WALLS -OFFICES / BREAK ROOMS / RESTROOMS ETC. PAINTED GYP BD, MOISTURE RESISTANT GYP BD IN RESTROOMS. PROVIDE PRIME COAT, (2) COATS OF FINISH, COLOR PER OWNER, EPOXY PAINT IN RESTROOMS, MECH SPACES, AND SURFACES EXPOSED TO STORAGE AREA REQUIRING PAINTING.

STORAGE AREA)

STORAGE AREA - 8 FT HIGH METAL PANELS BY PEMB MANUFACTURER -EXPOSED METAL STRUCTURAL AND OTHER FRAMES TO BE PAINTED AFTER REMOVING ALL RUST - USE PRIMER AND PAINT DESIGNED FOR METAL - SUBMIT PAINT TO OWNER FOR APPROVAL

INTERIOR DOOR FRAMES TO RECEIVE TNEMEC "GRAY COURT" #GR22 OR APPROVED EQUAL CEILINGS - PAINTED GYP BD, 1 COAT PRIMER 2 COATS FINISH - USE EPOXY PAINT ON MOISTURE RESISTANT GYP BD IN RESTROOMS. (EXCEPT

FLOORING - (OFFICES, BREAK ROOM, BATHROOMS, HALLWAY, ETC) VINYL COMPOSITION TILE EQUAL TO TARKETT VCT II, COLOR BY OWNER FROM MANURFACTURER'S STANDARD COLORS BASE - EQUAL TO MERCER 1/8" 4" VINYL COVE BASE - FROM STANDARD COLORS STORAGE AREA FLOORS - SEALED CONCRETE W/ A NON-SLIP FINISH - BASIS OF DESIGN SHALL BE TS210 BY "CONCRETE SEALERS USA" OR AN APPROVED EQUAL. INSTALL AND FINISH CONCRETE SURFACE PER MANUFACTURER'S SPECIFICATIONS.

NOTE: FINISHES SHALL BE COORDINATED WITH OWNER PRIOR TO PURCHASING AND CONSTRUCTION. SUBMIT SAMPLES FOR OWNER APPROVAL. APPROVED ALTERNATES ARE ACCEPTABLE.

NOTE: PROVIDE 3" SOUND BATT IN BATHROOM AND MECHANICAL ROOM WALLS.

(REFER TO ROOM FINISH NOTES)

DOOR & WINDOW NOTES:

- 1. REFER TO STRUCTURAL NOTES FOR WIND
- PRESSURES COMPONENTS AND CLADDING NOTES 2. PROVIDE DOOR AND WINDOW SUBMITTALS FOR OWNER APPROVAL
- 3. ALL EXTERIOR HARDWARE TO BE STAINLESS STEEL, COMMERCIAL GRADE HARDWARE
- 4. ALL HARDWARE TO BE COMMERCIAL GRADE 1. 5. ALL EXTERIOR COMPONENTS SHALL BE A COMPLETE WEATHER TIGHT ASSEMBLY AND SHALL BE INSTALLED
- PER THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- 6. COORDINATE DOOR KEYING WITH OWNER. 7. ALL DOOR THRESHOLDS SHALL BE ADA COMPLIANT

NOTE: THE BASIS OF DESIGN FOR THE OVERHEAD DOORS SHALL BE ROLLING STEEL DOOR MODEL 610 AS MANUFACTURED BY "OVERHEAD DOOR COMPANY", STANDARD GALVANIZED STEEL CURTAIN, WHITE, INSULATED, ELECTRIC OPERATION WITH CYLINDER LOCKS. FRAME TO BE COLOR WHITE AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLORS. APPROVED EQUALS ARE ACCEPTABLE IF APPROVED BY OWNER.

> ELEVATIONS SCALE: 3/16" = 1'-0"

DOOR SCHEDILLE

DOOR	2CHEDOLE			
SYMBOL	TYPE	SIZE	DESCRIPTION	REMARKS
D1	EXTERIOR DOOR	3-0 W, 6-8 H	PAINTED GALV STEEL, HM FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
			MINERAL FIBER INSULATION	KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE
D2	OH DOOR - ELECTRIC	12-0 W, 14-0 H	PAINTED GALV STEEL, HM FRAME	SEE NOTE BELOW FOR BASIS OF DESIGN
D3	PERSONEL DOOR, INTERIOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME MINERAL FIBER INSULATION	1.5 HOUR FIRE RATED UL ASSEMBLY W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES, SMOKE GASKET, DOOR SWEEP
				KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE
D4	BATHROOM DOOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES
			INSOLATED	PRIVACY PUSH BUTTONS, INSIDE PUSH BUTTON LOCKS OUTSIDE LEVER PROVIDE COAT HOOK
D5	OFFICE DOOR, INTERIOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME	ADA COMPLIANT LOCKSETS/HANDLES, SMOKE GASKET, DOOR SWEEP
			INSULATED	KEYED ON THE EXTERIOR SIDE W/ PRIVACY TURN BUTTON ON INTERIOR SIDE
D6	RESTROOM DOOR	3-0 W, 6-8 H	PAINTED METAL, HM FRAME	ADA COMPLIANT LOCKSETS/HANDLES PROVIDE COAT HOOK
			INSULATED	PRIVACY PUSH BUTTON ON INSIDE, INSIDE BUTTON LOCKS OUTSIDE LEVER. TURNING INSIDE LEVER RELEASES INDIDE BUTTON AND UNLOCKS LOCKSET.
D7	CLOSET DOOR	(2)1-6 W, 6-8 H	PAINTED WOOD, WD FRAME	ADA COMPLIANT LOCKSETS/HANDLES
D8	MECH CLOSET	(2) 3-0 W, 6-8 H	PAINTED METAL, HM FRAME	1.5 HOUR FIRE RATED UL ASSEMBLY W/ ASTRAGAL
			MINERAL FIBER INSULATION	W/ CLOSERS & ADA COMPLIANT LOCKSETS/HANDLES, SMOKE GASKET, DOOR SWEEP

____ C METAL ROOF PANELS BY PEMB, LIGHT GREY COLOR

- 1. ALL FLOOR FINISHES SHALL BE IN COMPIANCE W/ FBC ACCESSIBILITY CHAPTER 3. EXPOSED / POLISHED CONCRETE SHALL HAVE SLIP-RESISTANT FINISHES IN COMPLIANCE W/ FBC ACCESSIBILITY AND THE CONCRETE POLISHING COUNCIL. ALL FLOORING SHALL MEET OR EXCEED THE FLOOR DYNAMIC COEFFICIENT OF FRICTION (DCOF) AS PER ACCESSIBILITY CODES FOR NON-SLIP / SLIP RESISTANT STANDARDS.
- 2. ALL GYP BD SHALL BE 5/8" MIN. THICKNESS. ALL EXPOSED GYP BD SHALL BE PAINTED. MOISTURE RESISTANT GYP BD SHALL BE "PROROC" BY CERTAINEED OR APPROVED EQUAL. FOR ALL MOISTURE RESISTANT CEILINGS, PROVIDE 2 X BLOCKING @ 12" OC E.W.
- 3. INTERIOR WALLS AND CEILINGS IN THE RESTROOMS SHALL BE PAINTED AS FOLLOWS SHALL BE PAINTED WITH EPOXY PAINT AND PRIMER. INSTALL PER THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- 4. CHANGES IN LEVEL: ALL FLOOR CHANGES IN LEVEL SHALL MEET FBC 2020 ACCESSIBILITY CODE. VERTICAL CHANGES IN LEVEL BETWEEN 1/4" HIGH MAX ARE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH AND 1/2" HIGH MAX SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED AND SHALL COMPLY W/ SECTIONS 405 \$ 406.

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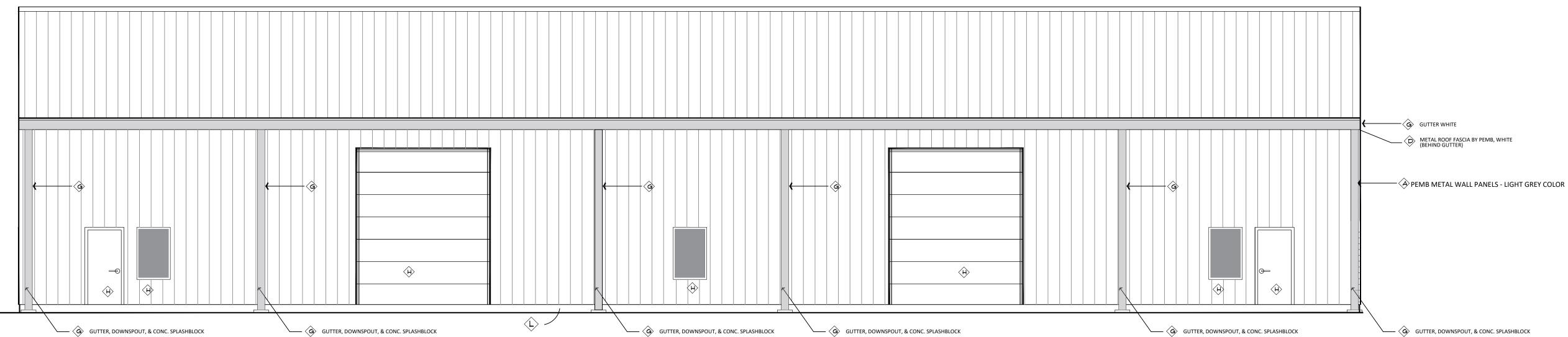
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RUSSELL

PROJECT #

A - 103



REAR ELEVATION

WITH DOUBLOT ACKE PIGHESS

LEFT SIDE ELEVATION

LEGEND

- A PEMB METAL WALL PANELS LIGHT GREY COLOR
- STEEL PEMB FRAME
- METAL ROOF PANELS
- ROOF FASCIA BY PEMB, WHITE
- E PEMB Z-GIRTS
- WALL INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE PROVIDE OWNER WITH A DEDUCT ALTERNATE
 TO DELETE THE WALL INSULATION IN THE
 EQUIPMENT STORAGE AREA ONLY ONLY THE THREE
 EXTERIOR WALLS NOT THE 2 HR WALL SEPARATION
- GUTTER, DOWNSPOUT, & CONC. SPLASHBLOCK
- H WINDOW OR DOOR WHITE TRIM
- ROOF INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE -
- 3 8 FT H METAL PANELS BY PEMB IN STORAGE AREA

- CEILING 5/8" TYPE X PAINTED GYP BD, COORDINATE W/ OWNER ON 6" 18 GA CEILING JOISTS @ 16" OC.
 TYPICAL ALL SPACES EXCEPT MAIN STORAGE AREA BRACE TO STRUCTURE ABOVE AS REQUIRED
- CONCRETE FOUNDATION REFER TO STRUCTURAL
- 3-5/8" METAL STUDS (6" @ PLUMBING WALLS IF REQUIRED)
 @ 16" OC W/ 5/8" TYPE X PAINTED GYP BD

 METAL STUD GAUGE, BRACING, ETC SHALL BE PER SIGNED AND SEALED
 SHOP DRAWINGS FROM THE METAL STUD MANUFACTURER
 PROVIDE 3.5" BATT INSULATION ALL INTERIOR WALLS THAT ABUTT THE
 MAIN STORAGE AREA AND ALL MECHANICAL AND BATHROOMS.
 PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN

 CONCRETE FLOOR SLAB REFER TO STRUCTURAL, PROVIDE VAPOR BARRIER
- 2 HOUR WALL ASSEMBLY
- PROVIDE UL APPROVED FIRE CAULKING SYSTEM MATCHING FIRE RATING
 OF WALL @ STEEL BEAM PENETRATIONS
- LOUVERS COORDINATE W/ MECHANICAL DRAWINGS
- PROVIDE UL APPROVED 2HR ASSEMBLY UL I 506 OR APPROVED EQUAL (2) LAYERS 5/8" TYPE ULIX GYP BD, LOOSELY LAID ON TOP OF MIN 6" D STEEL JOISTS @16" OC AND (3) LAYERS TYPE ULIX GYP BD ATTACHED TO THE BOTTOM OF THE STEEL CEILING JOISTS.

CLIMATE		1	2		
ZONE	All other	Group R	All other	Group R	
Insulation entirely above roof deck	R-20ci	R-25ci	R-25ci	R-25ci	
Metal building ^{a,}	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R11 LS	R-19 + R-11 LS	
Attic and other	R-38	R-38	R-38	R-38	
				<u>'</u>	
Mass	R-5.7ci ^c	R-5.7ci ^c	R-5.7ci ^c	R-7.6ci	
Metal building	R-13+ R-6.5ci	R-13 + R-6.5ci	R13 + R-6.5ci	R-13 + R-13ci	

1. INSULATION SYSTEM SHALL BE "SIMPLE SAVER SYSTEM" DOUBLE LAYER

4. PROVIDE A DEDUCTIVE ALTERNATE FOR DELETING THE WALL INSULATION IN THE EXTERIOR WALLS OF THE STORAGE PORTION OF THE FACILITY.

TABLE C402.1.3 OPAQUE THERMAL ENVELOPE

W/ OSHA COMPLIANT FALL PROTECTION OR APPROVED EQUAL.
INSULATION SHALL BE IN COMPLIANCE W/ FBC 2023 ENERGY CODE FOR METAL BUILDING, CLIMATE ZONE 2, ALL OTHER CATEGORY.
PROVIDE ROOF AND WALL INSULATION PER TABLE C402.1.3 FOR THE

STORAGE PORTION OF THE FACILITY.

INSULATION SYSTEM

LEGEND

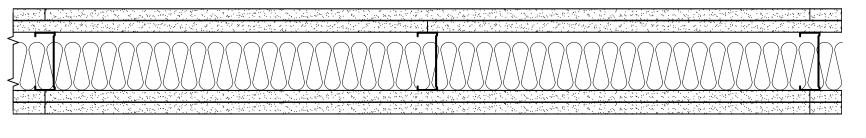
- PEMB METAL WALL PANELS LIGHT GREY COLOR
- STEEL PEMB FRAME
- METAL ROOF PANELS
- ROOF FASCIA BY PEMB, WHITE
- **E** PEMB Z-GIRTS
- WALL INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE PROVIDE OWNER WITH A DEDUCT ALTERNATE
 TO DELETE THE WALL INSULATION IN THE
 EQUIPMENT STORAGE AREA ONLY ONLY THE THREE
 EXTERIOR WALLS NOT THE 2 HR WALL SEPARATION
- GUTTER, DOWNSPOUT, & CONC. SPLASHBLOCK
- WINDOW OR DOOR WHITE TRIM
- ROOF INSULATION W/ VAPOR RETARDER IN COMPLIANCE W/ FBC ENERGY CODE -
- 3 FT H METAL PANELS BY PEMB IN STORAGE AREA

- CEILING 5/8" TYPE X PAINTED GYP BD, COORDINATE W/ OWNER ON 6" 18 GA CEILING JOISTS @ 16" OC.
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- CONCRETE FOUNDATION REFER TO STRUCTURAL
- 3-5/8" METAL STUDS (6" @ PLUMBING WALLS IF REQUIRED)
 @ 16" OC W/ 5/8" TYPE X PAINTED GYP BD

 METAL STUD GAUGE, BRACING, ETC SHALL BE PER SIGNED AND SEALED SHOP DRAWINGS FROM THE METAL STUD MANUFACTURER PROVIDE 3.5" BATT INSULATION ALL INTERIOR WALLS THAT ABUTT THE MAIN STORAGE AREA AND ALL MECHANICAL AND BATHROOMS.
 PROVIDE 2 HOUR WALL ASSEMBLY WHERE INDICATED ON PLAN
- N CONCRETE FLOOR SLAB REFER TO STRUCTURAL, PROVIDE VAPOR BARRIER
- 2 HOUR WALL ASSEMBLY
- PROVIDE UL APPROVED FIRE CAULKING SYSTEM MATCHING FIRE RATING OF WALL @ STEEL BEAM PENETRATIONS
- LOUVERS COORDINATE W/ MECHANICAL DRAWINGS
- PROVIDE UL APPROVED 2HR ASSEMBLY UL I 506 OR APPROVED EQUAL (2) LAYERS 5/8" TYPE ULIX GYP BD, LOOSELY LAID ON TOP OF MIN 6" D STEEL JOISTS @16" OC AND (3) LAYERS TYPE ULIX GYP BD ATTACHED TO THE BOTTOM OF THE STEEL CEILING JOISTS.

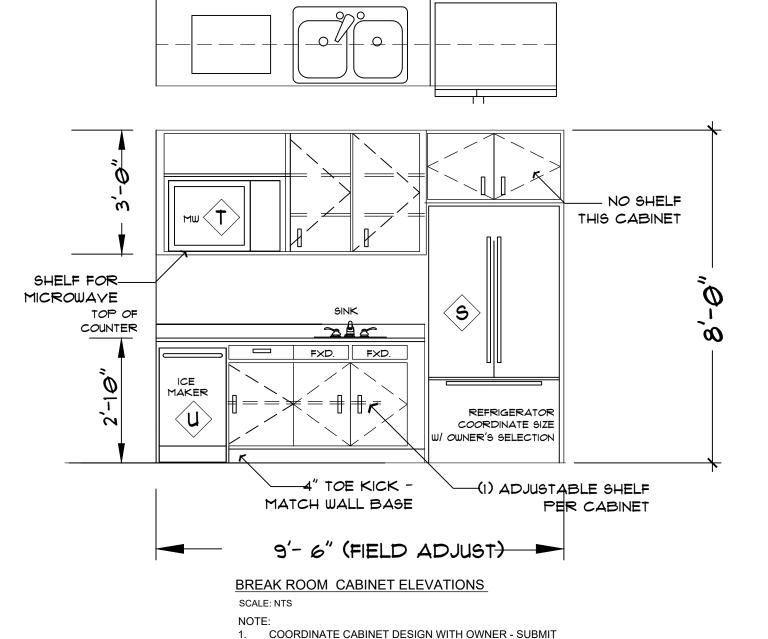
APPLIANCE SCHEDULE: COORDINATE W/ OWNER FOR FINAL SELECTIONS. APPROVED EQUALS ARE ACCEPTABLE

- GE 27.8 cu ft FRENCH DOOR REFRIGERATOR w/ Ice Maker Stainless Steel Model #PFE28KYNFS
- GE Profile 2.2 cu. ft. Countertop Sensor MICROWAVE OVEN Stainless Steel Model # PES7227SLSS
- EDGESTAR IB250SS 15" wide 20 lb Built-In ICE MAKER Stainless Steel Model # IB250SS



DEMISING WALL - U419 OR APPROVED EQUAL

- 1. 3 5/8 " METAL STUDS @ 16" OC GAUGE AND BLOCKING PER MANUFACTURER'S REQUIREMENTS - 25 GA MIN.
- 2. (2) LAYERS OF 5/8" SHEETROCK FIRECODE CORE
 PANELS EACH SIDE OF WALL PROVIDE RIS INSULATION.
- 3. PROVIDE UL APPROVED FIRE RATED ASSEMBLY AT ALL VOIDS \$ PENETRATIONS



SHOP DRAWINGS FOR OWNER APPROVALS PRIOR TO PURCHASE / CONSTRUCTION OF CABINETS.

CABINETS TO BE PLASTIC LAMINATE OVER 3/4" PLYWOOD. HARDWARE TO BE STAINLESS STEEL, COMMERCIAL GRADE

BUILDING SECTION

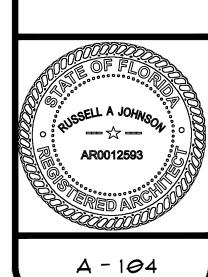
AR 00012593

RUSSELL JOHNSON



DATE | REVIEWED | REVI

GLE SPRINGS GOLF COURSE MAINTENANCE BUILDING



NOTE: Specified products listed are for design intent/quality control, approved equals are accepted as approved by owner. Submit complete shop drawings and specs for owner review and approval

COAT HOOK Bobrick B-6707 satin finished stainless steel finished single utility/coat hook.

GB; Bobrick B-6806.99 series peened satin stainless steel finished grab bars for accessible toilet size 42" L side wall, 36" L back wall

Mirror - Bobrick B-292 1830 seried welded satin stainless steel finish framed mirror with 5" shelf, 18" x 30".

PTC; Bobrick B-262 classic series satin stainless steel finished surface mounted paper towel cabinet for folded

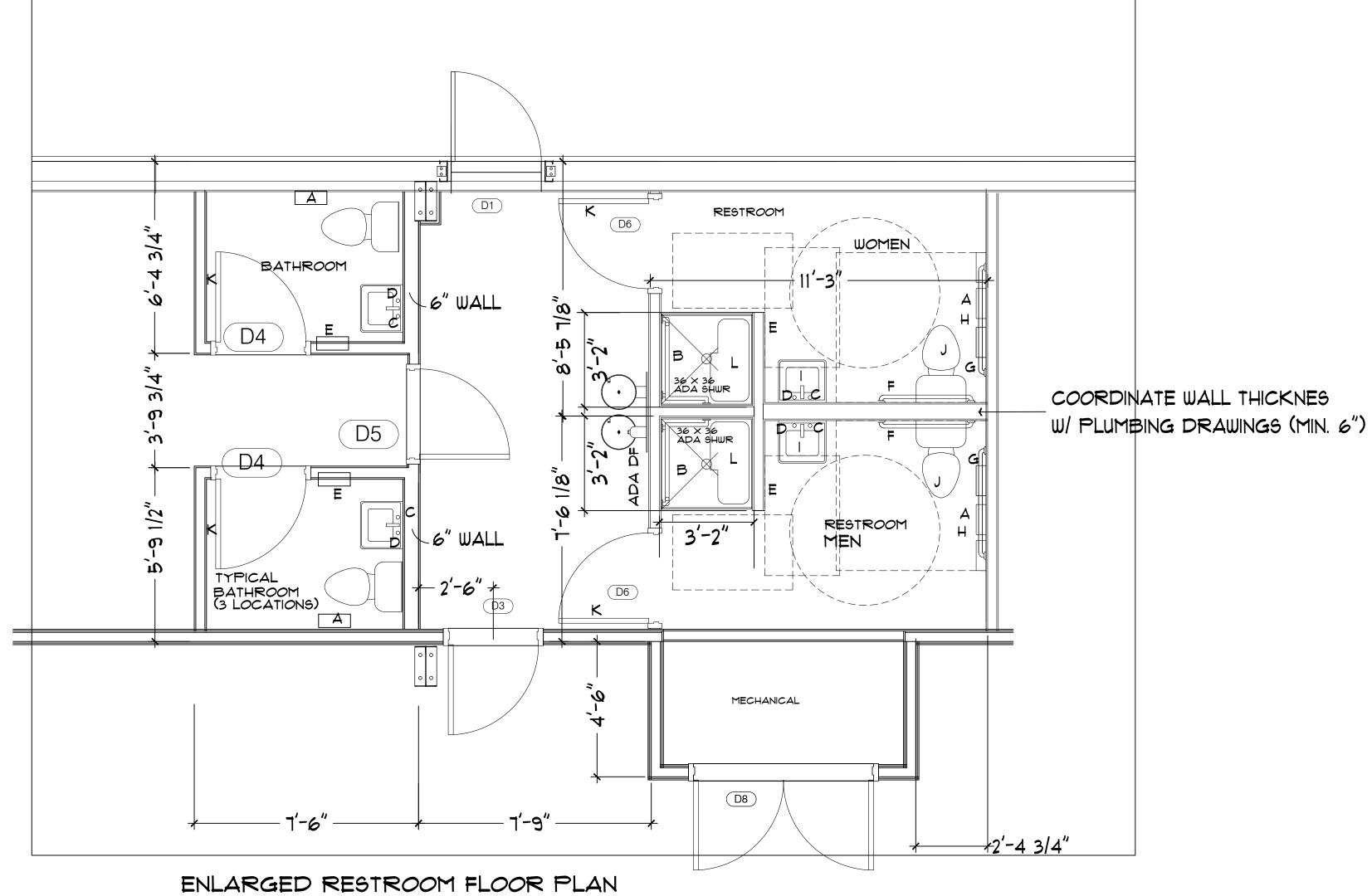
SDISP, Bobrick B-2111 classic series surface mounted soap dispensers with satin stainless steel finish.

TPH; Bobrick B-6867 classic series surface mounted satin stainless steel finish two roll toilet paper holder.

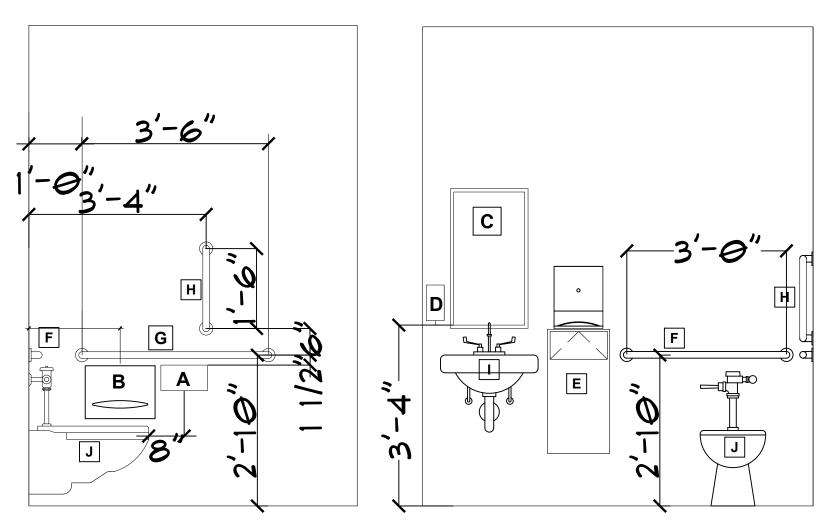
ADA COMPLIANT LAV (exposed piping shall be insulated per ada requirements) ADA COMPLIANT WATER CLOSET -

ADA COMPLIANT WALL MOUNTED URINAL - kohler Steward Hybrid K-5244-ET-0 or owner approved equal

Bobrick B 2260 satin stainless steel floor standing waste receptacle



3/8" = 1'-0"



F 36" ADA GRAB BAR G 42" ADA GRAB BAR H 18" YERTICAL ADA GRAB BAR I ADA LAVATORY J ADA WC K COAT HOOK, S.S. L ADA FOLDING SEAT 1. COORDINATE TOILET ACCESSORIES WITH OWNER. SUBMIT FULL SHOP DRAWINGS / CUT SHEETS FOR OWNER APPROVAL DURING BIDDING. COORDINATE MOUNTING HEIGHTS OF ACCESSORIES WITH MANUFACTURER'S DATA FOR ADA COMPLIANCE.

TOILET ACCESSORIES

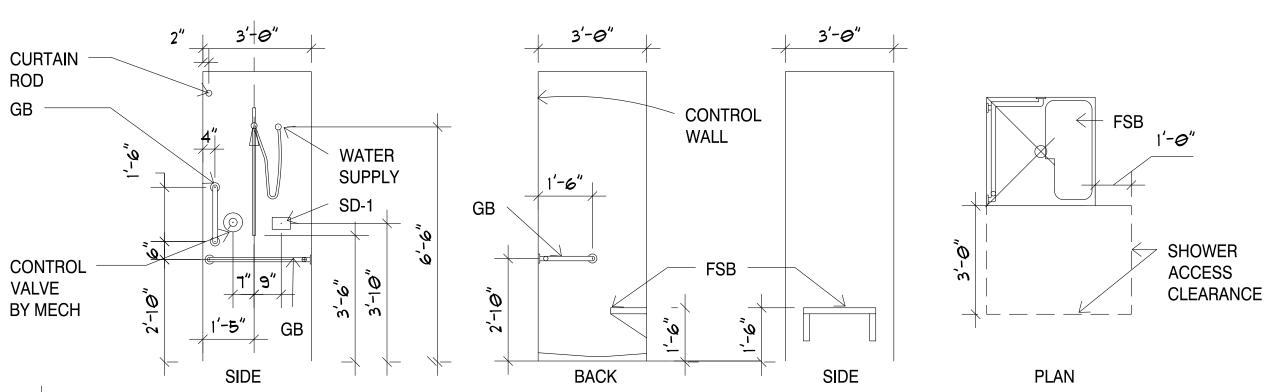
C ADA MIRROR

D SOAP DISPENSER

A TOILET TISSUE DISPENSER

B ADA SHWR GRAB BARS

E PAPER TOWEL DISPENSER \$ WASTE RECEPTACLE



ACCESSIBLE SHOWER - TRANSFER TYPE SHOWER WITH SEAT

36" X 36" CLEAR ACCESSIBLE TRANSFER TYPE SHOWER. DIMENSIONS ARE ABSOLUTE CLEAR INSIDE INCLUDING FINISHES. PROVIDE HAND HELD SHOWER WITH SLIDE BAR, ADJUSTABLE MECHANISE AND BE OPERABLE WITH ONE HAND WITHOUT TIGHT GRASPING OR

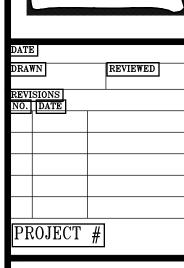
TWISTING OF THE WRIST. MAX. 5 LB FORCE TO OPERATE.

GB BLKG TO BE DESIGNED FOR 250 LB LAT. AND DEAD LOADS. HAND HELD SHOWER MUST HAVE A NON-POSITIVE SHUT OFF AND A HOSE THAT IS 59" LONG MIN. A - 105

BATHROOM - MOUNTING HEIGHTS

ARCHITECT

NOSNHOC RUSSELL



AGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING

EACH SIDE EACH WAY EXPANSION BOLT FXTERIOR FAR FACE FINISHED FLOOR ELEVATION FINISHED GRADE FINISH FLANGE FND FOUNDATION FACE OF CONCRETE FACE OF MASONRY FACE OF STUD **FULL PENETRATION** FAR SIDE FOOT OR FEET FOOTING GAUGE GALVANIZED GRADE BEAM **GUSSET PLATE HEADED ANCHOR STUD** HOLDOWN HOT DIP GALVANIZED HDR HEADER HORZ HORIZONTAI HIGH STRENGTH BOLT HSB HEADED SHEAR or "NELSON" STUD H.S.S. HOLLOW STL SECTION or TUBE HSS INSIDE FACE INCH OR INCHES INTERIOR KIP (1,000 POUNDS) LEFT END LIVE LOAD LONG LEG DOWN LLH LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LAMINATED VENEER LUMBER LIGHT WEIGHT CONCRETE MASONRY MAXIMUM MACHINE BOL MANUFACTURE MID or (M) MIDDLE MISCELLANEOU M.R.D. METAL ROOF DECK MTRL MATERIA NEAR FACE NUMBER OR # NEAR SIDE NON-SHRINE NOT TO SCALE NORMAL WEIGHT CONCRETE ON CENTER, "C.C." SIM OVERALL DIM. "O/O" SIM OUTSIDE FACE **OPPOSITE** OVFRSIZEI PRECAST CONCRETE PEN PENETRATION PERP PERPENDICULAR POINT LOAD PARALLEL STRAND LUMBER PRESSURE TREATED or POST-TENSION RIGHT END REINFORCIN RETURN REQUIRED ROOF LIVE LOAD ROUGH OPENING SLIP CRITICAL SCHEDULE S.D.N. STRUCTURAL DESIGN NOTES SIMILAR SLAB ON GRADE STUD PACK SPECIFICATIONS STAINLESS STEEL, "S.S." SIM

STIFFENER

SHEAR WAL

TOP OF

TOP SID

T or (T)

T&S

UWA

VERT

WWM

SYMMETRICAL

TOP AND BOTTOM

HREADED ROD

TOP OF BEAM TOP OF CONCRETE

TOP OF STEEL

TOP OF WAI

TYPICAL

VERTICAL

TRANSVERSE

WIDE FLANGE

WORKING POINT

WELDED WIRE FABRIC

WELDED WIRE MESH

TOP OF FOOTING

THICK OR THICKNESS

STRUCTURAL, "STRUCT" SIMILAR

TEMPERATURE & SHRINKAGE REINF.

"T&S" FOR REINF, ELSE TEMPORARY

UNLESS NOTED OTHERWISE, "U.N.O." SIM

UNDER WALL ABOVE, "U.W.A." SIM

REVI	ATIONS	1.	GENERAL NOTES:
			CTRUCTURAL RRAWINGS CHALL BE USER IN CONTUNICTION WITH RROTECT CRESIFICATIONS
	ANCHOR BOLT	1.1.	STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT
L	ADDITIONAL		THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS,
	ALTERNATE		EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
М	ALUMINUM		
Н	ARCHITECTURAL or ARCHITECT	1.2.	DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL
_	BOTTOM OF		BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH
G	BUILDING BLOCK		THE AFFECTED PART OF THE WORK.
`	BLOCKING	13	NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE
•	BEAM		ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR
	BOTTOM OF STEEL		SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD
	BEARING		FOR REVIEW OF ANY SUCH DEVIATIONS.
	BOTTOM SIDE	1/	DO NOT SCALE DRAWINGS
or (B) BOTTOM, "BOT" SIM BETWEEN	1.4.	DO NOT SCALE DRAWINGS.
	CARRIAGE BOLT	1.5.	THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS
	COLD FORMED STEEL		COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES
	CAST IN PLACE		AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING
	CONTROL JOINT		ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY
r (℄)	CENTER LINE		BRACING, AND TIEDOWNS.
ı	CLEAR CONCRETE MASONRY UNIT	1.6.	DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS
	CASED OPENING		OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY
	COLUMN		DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE
С	CONCRETE		DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY
N	CONNECTION		ARE REFERENCED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
ST T	CONSTRUCTION CONTINUE or CONTINUOUS		DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
ı	CONSTRUCTION JOINT	1.7.	THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL,
	CENTERED, "CNTR'd" SIM		ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY
	DETAIL		DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO
	DOUBLE		THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION
or (ø)	DIAMETER		OF ANY STRUCTURAL MEMBERS.
ı	DIAGONAL DIMENSION	1.8.	THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED
	DIRECTION		STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE
	DEAD LOAD		CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY
	DOWN		RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES,
)	DRAWING		SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND
-	DOWEL		SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION
	EACH EACH END		WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR
	EACH FACE		ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF
	EXPANSION JOINT		THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
/	ELEVATION		
ED	EMBEDDED or EMBEDMENT	1.9.	THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES
	EDGE OF SLAB		NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR
	EXISTING GRADE		DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR

REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE

PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND

RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF

CONSULTING, LLC IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE

1.11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFE SPAN AND TO ENSURE

MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE

ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE

JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED

DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE

1.13. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE 7TH EDITION (2020)

1.14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION EXCEPT AS

1.15. FINISH FLOOR ELEVATION (FIRST FLOOR) OF 0"-0" IS USED AS A REFERENCE ELEVATION. SEE

1.16. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY

1.17. IN THE EVENT THAT THE STRUCTURAL CONTRACTS DRAWINGS AND SPECIFICATIONS

2.1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE.

2.2.1. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

2.2.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

BASIC WIND SPEED = 134 MPH (INTERPOLATED VALUE)

PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN DESIGN.

ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU

OF PREPARATION OF SHOP DRAWINGS IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS

40 PSI

40 PSI

CONFLICT ON INFORMATION, THE STRUCTURAL CONTRACT DRAWINGS SHALL SUPERSEDE

COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL

STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

1.12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS,

HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED STEEL FRAMING, OR

OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE

REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS REFER TO THE LATEST EDITION

1.10. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF ATLAS ENGINEERING AND

OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK

OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.

SHOWN ON CONTRACT DOCUMENTS.

CODE DESIGN:

CIVIL DRAWINGS FOR ACTUAL ELEVATION.

ATTICS W/O STORAGE

ATTICS W/STORAGE

STRUCTURAL RISK CATEGORY = II

WIND EXPOSURE CATEGORY = B

COMPONENTS AND CLADDING (PER ASD)

12.21

11.13

9.60

18.48

17.64

15.71

FLOOD ZONE = X

2.5. ROOF RAIN LOAD DESIGN DATA:

PANEL NO = 12131C0260G

RAIN INTENSITY (i) = 4.5 IN/HR

(INTERIOR

ENCLOSURE CLASSIFICATION = ENCLOSED

INTERNAL PRESSURE COEFFICIENT = 0.18 +/

34.13

29.35

18.23

20.04

19.21

17.28

17.64

23.07

15.71 19.21

ROOMS (OTHER THAN SLEEPING)

SLEEPING AREAS

BALCONIES

2.3. WIND LOADS (ASCE 7-16):

ROOF: (LOADING IN PSF)

WALLS: (LOADING IN PSF)

AREA (SQFT)

AREA (SQFT)

DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE

CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT

DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE

STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF

	3.3. AT	A MINIMUM, SITE PREPARATION WORK SHALL INCLUDE:
	3.3.1.	STRIPPING AND GRUBBING OF THE BUILDING FOOTPRINT PLUS A MARGIN OF 5 FEET
)		AROUND THE BUILDING, REMOVING ALL ORGANIC MATERIALS.
	3.3.2.	PROOF ROLLING THE BUILDING SITE TO LOCATE ANY UNFORESEEN SOFT AREAS. ANY
		SOFT AREAS SHALL BE\ EXCAVATED AND REPLACED WITH CLEAN FILL. A DENSITY OF AT
		LEAST 95% FOR A DEPTH OF 2 FEET IS REQUIRED UNDER THE BUILDING FOOTPRINT.
	3.3.3.	ALL FILL SHALL BE CLEAN SAND AND FREE OF ORGANIC MATERIALS. COMPACT FILL IN 12
S		INCH (UNCOMPACTED THICKNESS) LIFTS TO A MINIMUM OF 95% OF THE MODIFIED
ES		PROCTOR MAXIMUM DRY DENSITY VALUE.
	3.3.4.	EXCAVATIONS FOR FOUNDATIONS SHALL BE COMPACTED TO 95% FOR A DEPTH OF AT
		LEAST 2 FEET BELOW THE BOTTOM OF THE FOUNDATION.
	3.3.5.	DEWATERING MAY BE REQUIRED TO ACHIEVE THE REQUIRED COMPACTION VALUES, AND
		IF USED, SHOULD DRAW DOWN THE WATER LEVEL TO AT LEAST 2 FEET BELOW THE
		BOTTOM OF THE EXCAVATION.
	3.4 SI.4	ABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "B" VAPOR RETARDER. VAPOR
		TARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE
		NUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN
		E VADOD DETADDED SHALL BE DEDAIDED DED MANUEACTURED'S WRITTEN INSTRUCTIONS

LLC FOR THE PERFORMANCE OF THE FOUNDATION.

4.2.3. CIP BEAMS, COLUMNS & WALLS

4.2.4. EXTERIOR RETAINING WALLS

3.1. THE FOUNDATIONS ARE DESIGNED FOR AN ANTICIPATED ALLOWARI E SOIL BEARING

PRESSURE OF 2,000 PSF ON COMPACTED FILL IF GEOTECHNICAL INVESTIGATION HAS NOT

WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY ATLAS ENGINEERING AND CONSULTING

3.2. REGARDLESS OF WHETHER OR NOT A GEOTECHNICAL INVESTIGATION IS PERFORMED, NO

FOUNDATIONS:

	BOTTOM OF THE EXCAVATION.
3.4.	SLABS ON GRADE SHALL BE PLACED OVER A 15 MIL, CLASS "B" VAPOR RETARDER. VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6", OR AS RECOMMENDED BY THE MANUFACTURER (WHICHEVER IS GREATER) AND TAPED AT ALL JOINTS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL PENETRATIONS THROUGH THE VAPOR RETARDER (COLUMNS, PLUMBING, CONDUITS, ETC) SHALL BE SEALED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. VAPOR RETARDER SHALL BE CONTINUOUS UNDER WALL FOUNDATIONS OR SEALED TO EXTERIOR WALLS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4.	CONCRETE:
4.1.	CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND

	SPECIFICATIONS.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
4.2.	UNLESS NOTED OTHERWISE, ALL CONCRET FOLLOWING MINIMUM 28 DAY COMPRESSI	TE SHALL BE NORMAL WEIGHT AND HAVE THE VE STRENGTHS:
4.2	.1. FOUNDATIONS & SLAB-ON-GRADE	3,000 PSI
4.2	.2. STRUCTURAL SLABS	4.000 PSI

4.3.	SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
4.4.	CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING. MIXING. TRANSPORTING. ETC. CONCRETE TICKETS SHALL BE TIME STAMPED

4.000 PSI

4.000 PSI

	WHEN CONCRETE IS BATCHED.
4.5	THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

4.6. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
4.7. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH

4.8.	CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 20.6.
4.9.	CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS

PER 26.4.4 OF ACI 318.	
4.10. CONCRETE SLABS ON GRADE SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 STEEL MESH ()R
SYNTHETIC FIBERS AT A MINIMUM RATE OF 3.0 LBS/CY, OR AS RECOMMENDED BY THE FI	BER
MANUFACTURER FOR CONTROL OF TEMPERATURE AND SHRINKAGE/CRACKING, WHICH	EVER
IS GREATER. UNLESS NOTED OTHERWISE.	

4.11. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES, THE
CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN TH
ALLOWABLE RANGE BEFORE INSTALLATION.

4.12. CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM	OF 3/4".
5 DEINIGORONIO CTEEL	

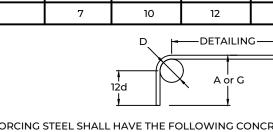
PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.

5.	REINFORCING STEEL

5.1. SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND

MINIMUM LAP SPLIC	E LENGTH (II	N.) - 3000 PSI (CONCRETE			
	No. 3	No. 4	No. 5	No. 6	No. 7	No.
FOOTINGS (HORIZ.)	21	23	29	37	50	-
VERT. DOWELS	22	29	36	43	63	72
MINIMUM LAP SPLIC	E LENGTH (II	N.) - 4000 PSI	CONCRETE			
	No. 3	No. 4	No. 5	No. 6	No. 7	No.
BEAMS/SLABS	-	-	-	-	-	-
- TOP BARS	22	29	36	43	63	72
- OTHER	21	21	26	31	39	51
COLUMNS	16	18	19	22	37	45
C.I.P. WALLS	-	-	-	-	-	-
- VERT. (1 MAT)	21	21	22	25	39	51
- VERT. (2 MATS)	16	18	19	22	34	43
- HORIZONTAL	16	19	27	37	60	74
MINIMUM LAP SPLIC	E LENGTH (II	N.) - 1500 PSI N	ORMAL WEI	GHT CMU	<u></u>	
	No. 3	No. 4	No. 5	No. 6	No. 7	No.
6-in CMU WALL	19	25	39	81	-	-
8-in CMU WALL	19	25	31	57	79	113
12-in CMU WALL	19	25	31	53	61	75

				12-in CMU WALL	19	25	31	53	61	75
ZON	E 2	ZON	NE 3	RECOMMENED EN	D HOOKS AN	CHORAGE LEN	1GTH (IN.) - 30	00 PSI CONCI	RETE	
(EDC	GE)	(CORNER)			No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
(+)	(-)	(+)	(-)	D	2.25	3.00	3.75	4.50	5.25	6.00
12.21	45.09	12.21	59.19	A or G	6	8	10	12	14	16
11.13 9.60	38.94 24.63	11.13 9.60	50.70 31.00	RECOMMENED EN	D HOOKS AN	CHORAGE LEN	NGTH (IN.) - 40	000 PSI CONCI	RETE	
9.60	24.63	9.60	31.00		No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
				D	2.25	3.00	3.75	4.50	5.25	6.00
ZON (EDGE/C				A or G	7	10	12	15	17	19
(+) 18.48	(-) 24.74					P	DETAILING	G		



5.2.	REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE CLEAR COVER UNO (PER ACI
	318-05 PAR.7.7.1)

(#6 BARS & LARGER)

(#5 BARS & SMALLER)

(STIRRUPS & TIES)

(SLABS)

	[3] 2 3 3 2 3	318-05 PAR.7.7.1)
		5.2.1. CONCRETE CAST AGAINST EARTH:
5	2 1 22 1 2	5.2.2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
a = 8.00 ft	3 2 3 3 2 3	5.2.3. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
a a a a a a a a a a a a a a a a a a a		5.3. SECURE APPROVAL OF SHOP DRAWING

OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION. 5.4. PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF ALL TOP BARS

5.5. WHERE REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORTS AND TOP BARS AT CENTER OF SPAN. ALL OTHER LAP SPLICES SHALL BE IN ACCORDANCE WITH SPLICE TABLES AND DETAILS SHOWN ON DRAWINGS.

5.6. PROVIDE DOWELS INTO FOOTINGS, PILE CAPS, SUPPORT BEAMS, ETC. TO MATCH VERTICAL BARS WITH CLASS B TENSION LAP SPLICES, U.N.O.

5.7	'. WHERE HOOKS ARE SHOWN ON THE PLANS OR DETAILS, HOOKS SHALL BE DETAILED TO
	EXTEND DEEP ENOUGH INTO SUPPORTING STRUCTURE TO DEVELOP THE FULL STRENGTH OF
	THE HOOKED BAR. PROVIDE ADDITIONAL TIES OR STIRRUPS IN SUPPORTING STRUCTURE AS
	REQUIRED TO SATISFY ACI 318 HOOK DEVELOPMENT, CONFINEMENT, AND ANCHORAGE
	CRITERIA.

5.8.	ALL REINFORCEMENT SHALL BE BENT COLD, UNLESS OTHERWISE APPROVED BY
	STRUCTURAL EOR.

5.9.	SHOP DRA	WINGS SHO	WING ALL F	ABRICATION	DIMENSIO	NS AND LO	CATIONS F	OR PLA	CINC
	REINFORCI	NG STEEL IN	MAT SLABS	, CAST-IN-PI	LACE WALLS	S, AND STR	UCTURAL S	SLABS S	HALI
	BE SUBMIT	TED TO THE	STRUCTUR/	AL ENGINEER	R FOR APPR	OVAL PRIC	R TO FABR	RICATIO	N.

5.10. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED
AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES
AND REQUIREMENTS FOR REINFORCED CONCRETE, "ACI 318" AND THE "MANUALS OF
STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 (LATES
EDITION).

- 5.11. ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "WET STICKING" DOWELS INTO CONCRETE IS NOT PERMITTED
- 5.12. CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS STAGGER SPLICES WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE, DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED RFINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.
- 5.13. REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE STRUCTURAL EOR.
- 5.14. ALL STEEL REINFORCING USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE

SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB. WELDED WIRE FABRIC

6.1.	SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
6.2	. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES.

6.3.	ALL WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE
	SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

7.	WGGB.
7.1.	STRUCTURAL GLUED LAMINATED TIMBER SHALL BE PRODUCED IN ACCORDANCE WITH THE
	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). MINIMUM ALLOWABLE BENDING
	STRESS SHALL BE 2,400 PSI (DRY CONDITIONS).

- 7.2. PROVIDE DRESSED SEASONED LUMBER, S4S, WITH A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DRESSING AS LISTED BELOW
- 7.2.1. INTERIOR AND EXTERIOR LOAD-BEARING WALLS: SOUTHERN PINE, NO. 2 GRADE.
- 7.2.2. LINTELS. FLOOR JOISTS AND BEAMS: SOUTHERN PINE, NO. 2 GRADE
- 7.2.3. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-TREATED. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD. THE PROTECTIVE COATING ON LIGHT GAUGE STEEL CONNECTIONS IN CONTACT W/ PRESSURE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE CONNECTOR MANUFACTURERS RECOMMENDATIONS.

7.3. ENGINEERED LUMBER PRODUCTS

STRESSES AND PROPERTIES:

7 WOOD

7.3.1. PARALLEL STRAND LUMBER (PSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

	ALLOWABLE BENDING STRESS	F/B = 2900 PSI
	COMPRESSION PERPENDICULAR TO GRAIN	F/C⊥ = 750 PSI
	COMPRESSION PARALLEL TO GRAIN	F/C = 2900 PSI
	HORIZONTAL SHEAR	F/V = 290 PSI
	MODULUS OF ELASTICITY	E = 2,000,000 PSI
7.3.2.	LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE	FOLLOWING MINIMUM ALLOWABLE

ALLOWABLE BENDING STRESS	F/B
COMPRESSION PERPENDICULAR TO GRAIN	F/C
COMPDESSION DADALLEL TO CDAIN	E/C

ALLOWABLE BENDING STRESS

COMPRESSION PARALLEL TO GRAIN

COMPRESSION PERPENDICULAR TO GRAIN

ALLOWABLE BENDING STRESS	F/B = 2600 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C [⊥] = 750 PSI
COMPRESSION PARALLEL TO GRAIN	F/C = 2510 PSI
HORIZONTAL SHEAR	F/V = 285 PSI
MODULUS OF ELASTICITY	E = 2,000,000 PSI

.3.3.	LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND PROPERTIES:

	HORIZONTAL SHEAR	F/V = 425 PSI
	MODULUS OF ELASTICITY	E = 1,300,000 PSI
7.3.4.	GLULAM BEAMS SHALL HAVE THE FOLLOWING MINIMU PROPERTIES:	IM ALLOWABLE STRESSES A
	ALLOWABLE BENDING STRESS	F/B = 3000 PSI

F/B = 1700 PSI

F/C[⊥] = 710 PSI

F/C|| = 1835 PSI

ALLOWABLE BENDING STRESS	F/B = 3000 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C [⊥] = 805 PS
TENSION PARALLEL TO GRAIN	F/T = 1350 PS
HORIZONTAL SHEAR	F/V = 300 PSI
MODULUS OF ELASTICITY	E = 2,100,000 PS
ERVED GLULAM BEAMS SHALL HAVE THE FOLLOWING	S MINIMUM ALLOWA

7.3.5. PRESE

STRESSES AND PROPERTIES:	
ALLOWABLE BENDING STRESS	F/B = 2400 PSI
COMPRESSION PERPENDICULAR TO GRAIN	F/C [⊥] = 740 PS
HORIZONTAL SHEAR	F/V = 300 PSI
MODULUS OF ELASTICITY	E = 1,800,000 P

7.4. STRUCTURAL PANELS

7.4.1. FLOOR PANELS SHALL BE CONSTRUCTED WITH TONGUE AND GROOVE APA RATED EXPOSURE 1, 23 / $_{32}$ " PLYWOOD. FLOOR PANELS SHALL BE GLUED AND NAILED W/ 10d RING SHANK NAILS @ 4" O/C AT PANEL EDGES AND AT 6" O/C IN THE FIELD.

7.4.2. WALL PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, $^{15}/_{32}$ " SHEATHING SHEATHING SHALL BE ATTACHED WITH 10d COMMON NAILS @ 3" O/C AT PANEL EDGES AND 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED. 7.4.3. ROOF PANELS SHALL BE CONSTRUCTED WITH APA RATED, EXPOSURE 1, $^{19}\!\!/_{32}$ " SHEATHING.

SHEATHING SHALL BE ATTACHED WITH 10d RING SHANK NAILS @ 4" O/C AT PANEL EDGES AND AT 6" O/C IN THE FIELD. ALL PANEL EDGES SHALL BE BLOCKED OR ATTACHED WITH SIMPSON PSCA PANEL SHEATHING CLIPS. NAIL HEADS SHALL NOT PENETRATE THE OUTER SURFACE OF SHEATHING.

7.5. FABRICATED WOOD TRUSSES

7.5.10. FLOOR TRUSS LOADS:

7.5.1. DESIGN OF WOOD TRUSSES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, AND SUPPORT REACTIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO TRUSS CONFIGURATION, AND THE CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE TRUSSES OR TRUSS CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.

7.5.2. ERECTION AND TEMPORARY BRACING OF PREFABRICATED WOOD TRUSSES SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER AND THE TRUSS PLATE INSTITUTE'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS". 7.5.3. SECURE EACH COMMON ROOF TRUSS/RAFTER TO TOP PLATE WITH SIMPSON H-10 OR H-7

HURRICANE CLIP AT ALL BEARING POINTS. USE SIMPSON H-7 AT GIRDER TRUSSES. PROVIDE A MINIMUM OF TWO STUDS UNDER GIRDER TRUSS END BEARING. 7.5.4. TRUSSES ON SITE PRIOR TO INSTALLATION SHALL BE STORED IN A VERTICAL POSITION

7.5.5. INSTALLATION OF ALL TRUSSES SHALL BE DONE USING A SPREADER BAR WITH A THREE POINT VERTICAL PICK AND CARE IS TO BE USED IN LIFTING TO MINIMIZE HORIZONTAL

WITH SUPPORT POINTS PROVIDED AT FINAL BEARING POINTS AND BRACED TO AVOID

7.5.6. IMPROPER HANDLING OF THE TRUSSES AS NOTED ABOVE AND IN THE SPECIFICATIONS SHALL MEAN REMOVAL OF THE TRUSSES FROM THE JOB SITE.

7.5.7. DOUBLE TRUSSES SHALL BE NAILED TOGETHER W/ 10d @12" O.C. EACH SIDE, TOP AND BOTTOM CHORDS & WEBS.

7.5.8. TRUSS TO TRUSS CONNECTIONS SHALL BE VERIFIED BY THE TRUSS DESIGNER. 7.5.9. CONTRACTOR TO REFER TO "STANDARD FOR HURRICANE RESISTANT CONSTRUCTION SSTD 10-99 FOR FRAMING REQUIREMENTS OF WOOD FRAMED WALL SYSTEMS.

FLOOR TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

TOP CHORD LIVE LOAD TOP CHORD DEAD LOAD 20 PSF **BOTTOM CHORD DEAD LOAD** 10 PSF 70 PSF

7.5.11. ROOF TRUSS LOADS:

ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS UNLESS A SPECIAL LOADING PATTERN IS PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD.

TOP CHORD LIVE LOAD TOP CHORD DEAD LOAD BOTTOM CHORD DEAD LOAD 40 PSF

7.6. CONNECTIONS

7.6.1. CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED STRONG TIE CONNECTORS BY THE SIMPSON COMPANY OR APPROVED EQUAL. CONNECTORS SHALL FOLLOW MANUE CORROSION PROTECTION RECOMMENDATIONS

7.6.2. THE NUMBER OF FASTENERS PER CONNECTION SHALL BE THE MAX. ALLOWED FOR THAT PARTICULAR FASTENER.

TIE-DOWN NOTES:

8.1. ANCHOR TIE-DOWN RODS SHALL HAVE A MINIMUM SHAFT DIAMETER OF 1/2" (ONE HALF INCH) 8.2. TIE-DOWN RODS MAY BE CONNECTED DIRECTLY TO THE PLAN SPECIFIED 5/8" ANCHOR BOLTS

AND 5/8" NUT ATOP THE SILL PLATE. 8.3. TIE-DOWN DIRECT CONNECTION MAY BE USED BY UTILIZING SIMPSON SET ANCHORAGE

USING A SIMPSON CNW5/8"-1/2" TRANSITION COUPLER NUT ABOVE THE REQUIRED BP3-5/8"

ADHESIVE WITH MINIMUM ROD EMBEDMENT OF 6" WHEREVER CAST-IN-PLACE ANCHOR BOLTS ARE SPECIFIED FOR COUPLED EXTENSION TO ABOVE. 8.4. ANY PLACE WHERE A TIE-DOWN LOCATION IS FILLED WITH STUDS; USE A SIMPSON LTTI31 OR HDU5 HOLDOWN CONNECTED AT THE TOP AND BOTTOM OF A MINIMUM 2PLY STUD PACK TO

PRESERVE TENSION LOAD PATH TO FLOORS ABOVE AND/OR BELOW. RESUME INDICATED TIE-DOWN ROD PATH AT ENDS OF STUD PACK IF POSSIBLE. 8.5. SIMPSON LTTI31 & HDU5 HOLDOWNS SHALL BE ANCHORED INTO GROUT FILLED CMU WALLS

OR PIERS WITH A SIMPSON SB5/8 OR SSTB ANCHOR BOLT WITH EMBEDMENT PER MFGR. RECOMMENDATION.

8.6. RODS SHALL INSTALLED PLUMB. THE MAXIMUM ALLOWABLE ROD DRIFT FROM PLUMB SHOULD NOT EXCEED 1.33 DEGREES OR MAXIMUM CENTERLINE OFFSET DISTANCE OF 1.75" PER

8.7. TIE-DOWN RODS SHALL HAVE A SIMPSON BP-3 WITH NUT ATOP THE TERMINAL TOP PLATE. RODS AT SLOPED OR RAKED PLATES SHALL REQUIRE HILLSIDE WASHERS BETWEEN BP-3 AND

8.8. ALL RODS ARE TO BE TIGHTENED AT EACH FLOOR AND THE TOP PLATE CONNECTION AFTER ROOF IS FULLY LOADED, JUST PRIOR TO GYPSUM BOARD INSTALLATION. ALL RODS WITH BP AND NUT CONNECTIONS TO THE BOTTOM SIDE OF THE FIRST FLOOR FRAMING SHALL BE TIGHTENED AT THE END OF THE CONSTRUCTION PROCESS PRIOR TO C.O. OPTIONAL: CONTRACTOR MAY INSTALL A SIMPSON BPRTUD AND RTUD TAKE-UP DEVICE AT THE TERMINAL TOP PLATE CONNECTION TO REMOVED UNWANTED SYSTEM SLACK DUE TO STRUCTURE SETTLING OR CREEP

MASONRY WALLS:

9.1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION.

UNIT STRENGTH OF 1900 PSI ON THE NET AREA (f'm = 1500 PSI). MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. 9.3. GROUT SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND

9.2. MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH

HAVE A SLUMP BETWEEN 8" AND 11" WITH WATER CM RATIO OF 0.55 MAXIMUM AND WITH 3/8" MAXIMUM AGGREGATE.

9.4. PROVIDE HOOKED DOWELS IN FOUNDATIONS FOR VERTICAL REINFORCING ABOVE. REFER TO TABLE FOR SPLICE LENGTH. 9.5. BLOCK CELLS SHALL BE GROUT FILLED WITH VERTICAL REINFORCING BARS AT CORNERS,

INTERSECTIONS, EACH SIDE OF OPENINGS AND AS SHOWN ON THE DRAWINGS. 9.6. DOWELS SHALL BE USED TO PROVIDE CONTINUITY INTO THE STRUCTURE ABOVE AND/OR

BELOW, UNLESS NOTED OTHERWISE. 9.7. USE METAL LATH, MORTAR OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA

AS REQUIRED.

9.8. MASONRY SHALL BE LAID IN RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. AT FILLED CELLS LAY UNITS WITH FULL BED JOINTS AROUND CELLS.

9.9. PROVIDE 9 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING AT ALTERNATE BLOCK COURSES. LADDER TYPE IS RECOMMENDED WITH REINFORCED FILLED CELLS. PROVIDE PREFABRICATED "TEE" OR CORNER SECTIONS AT WALL INTERSECTIONS

9.10. CONTROL JOINTS SHALL BE CONSTRUCTED IN CONCRETE MASONRY CONSTRUCTION AT A MAXIMUM HORIZONTAL SPACING BETWEEN JOINTS OF 25'-0" AND NOT MORE THAN 12'6" FROM CORNERS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. CONSTRUCT INTERIOR CONTROL JOINTS AT A MAXIMUM HORIZONTAL SPACING OF 32'-0" OR 16'-0" FROM CORNERS. NO JOINTS SHALL BE LOCATED WITHIN 2'-0" OF STEEL BEAM BEARINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.

9.11. SUBMIT PROPOSED GROUT MIX DESIGNS FOR REVIEW PRIOR TO USE. MIX NUMBER OR OTHER POSITIVE IDENTIFICATION SHALL UNIQUELY IDENTIFY MIX.

9.12. USE OF SUPERPLASTICIZER IS PROHIBITED.

9.13. CELLS TO BE GROUT FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL GROUT SPACE.

9.14. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF CELLS TO BE GROUT FILLED IN EACH POUR IN EXCESS OF 5 FEET IN HEIGHT. AFTER INSPECTION AND BEFORE GROUTING, THE REBAR SHALL BE TIED AT THE CLEANOUTS AND THE CLEANOUTS SHALL BE SEALED.

9.15. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM THE INSIDES OF SUCH CELL WALLS.

9.16. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.

9.17. ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT (U.N.O). SAMPLE AND TEST GROUT PER

CONSOLIDATED AT TIME OF PLACING BY VIBRATING AND RECONSOLIDATED LATER BY

VIBRATING BEFORE PLASTICITY IS LOST. 9.19. WHEN TOTAL GROUT POUR EXCEEDS 5 FEET IN HEIGHT, (HIGH LIFT GROUTING), THE GROUT SHALL BE PLACED IN 4-FOOT LIFTS WITH A MINIMUM OF A 30 MINUTE DELAY BETWEEN LIFTS. MINIMUM CELL DIMENSION SHALL BE IN ACCORDANCE WITH TABLE 5 OF ACI 530.1 (3" X 3" FOR

9.18. GROUT SHALL BE POURED IN LIFTS OF 4 FEET MAXIMUM HEIGHT. GROUT SHALL BE

COARSE GROUT, 12 FT. MAXIMUM POUR HEIGHT). 9.20. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE MADE BY STOPPING THE POUR OF GROUT NOT LESS THAN 1-1/2 INCH BELOW THE TOP OF THE UPPERMOST UNIT GROUTED.

9.21. MASONRY WALLS MARKED AS "LOAD BEARING" ARE DESIGNED TO CARRY FLOOR GRAVITY LOADS AND MUST BE CONSTRUCTED TO SUPPORT THE CONCRETE FLOOR SLAB CONCURRENTLY WITH CONCRETE COLUMN CONSTRUCTION.

9.22. MASONRY WALLS INDICATED AS "INFILL" ARE DESIGNED TO RESIST LATERAL LOADS AND MUST BE CONSTRUCTED AFTER THE CONCRETE SLAB IS CAST AND POST TENSIONING OPERATION IS COMPLETED. INFILL WALLS SHALL BE CONSTRUCTED STARTING AT THE FOUNDATION LEVEL AND WORKING UPWARD ONE LEVEL AT A TIME. DO NOT START NEXT HIGHER LEVEL OF WALL PRIOR TO COMPLETION OF WALL BELOW. ALLOW A MINIMUM OF 3 DAYS CURING FOR GROUT OF WALL BELOW PRIOR TO STARTING WALL ABOVE.

9.23. SINGLE STORY MASONRY WALLS INDICATED AS "PARTITION WALLS" SHALL BE CAST ON THICKENED SLAB FOUNDATIONS AND ARE NOT DESIGNED TO CARRY ANY LOADS FROM THE MAIN BUILDING STRUCTURES. ISOLATE TOP OF PARTITION WALLS FROM UNDERSIDE OF CONCRETE SLAB WITH A MINIMUM 1/2" THICK COMPRESSIBLE MATERIAL

9.24. SUBMIT WRITTEN CONSTRUCTION SEQUENCES AND PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.

CHEMICAL (ADHESIVE) ANCHORS:

10.1. SHALL BE A TWO PART EPOXY POLYMER INJECTION SYSTEM, SUCH AS HILTI HIT HY150, HILTI RE500, OR SIMPSON SET ADHESIVE SYSTEM, OR ENGINEER APPROVED SUBSTITUTION.

10.2. EPOXY TYPES AND BRANDS VARY IN THEIR BOND STRENGTH AND SUITABILITY OF USE DEPENDING ON TYPE OF LOADING, ANCHOR SPACING, ETC. WHEN A PARTICULAR TYPE OF EPOXY IS SPECIFIED IN THESE DRAWINGS, A UNIQUE CALCULATION HAS BEEN MADE BASED ON THE PROPERTIES OF THAT SPECIFIC TYPE OF EPOXY FOR THE SPECIFIC CONDITION SHOWN IN THE DETAIL. SUBSTITUTION OF EPOXY TYPE IS NOT ALLOWED WHERE DETAIL SPECIFIES ONLY ONE TYPE OF EPOXY, WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD. NOT ALL EPOXY BRANDS OR TYPES WILL BE ALLOWED AS SUBSTITUTES.

10.3. SUBSTITUTION OF EPOXIES IN ONE CONDITION SHALL NOT BE CONSTRUED AS APPROVAL TO MAKE SIMILAR SUBSTITUTION OF EPOXIES IN OTHER DIFFERING CONDITIONS. EACH SUBSTITUTION MUST RECEIVE PRIOR WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

10.4. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

10.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

AND HAS ACHIEVED IT'S SPECIFIED STRENGTH.

10.6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL HOLE CLEAN-OUT REQUIREMENTS. ARE FULLY COMPLETED BY THE INSTALLERS PRIOR TO INJECTING EPOXY INTO THE HOLES. 10.7. NO LOAD SHALL BE APPLIED TO THE EPOXY ANCHORS UNTIL THE EPOXY HAS FULLY CURED

10.8. IF DETAIL SHOWS EPOXY ANCHORS IN SLOTTED HOLES, IT IS IMPERATIVE THAT ANY EXCESS EPOXY IS CLEANED UP FROM AROUND THE ANCHOR ROD, SO THAT IT DOES NOT INTERFERE WITH ADJUSTABILITY OF ANCHOR ROD IN SLOTTED HOLE.

MECHANICAL ANCHORS:

11.1. SHALL BE EITHER HEAVY DUTY CONCRETE SCREW ANCHOR (SUCH AS POWERS WEDGE-BOLT, SIMPSON TITEN HD, OR HILTI HUS-H) OR WEDGE TYPE EXPANSION ANCHOR (SUCH AS POWERS POWER-STUD, SIMPSON WEDGE-ALL, OR HILTI KWIK BOLT 3).

11.2. TYPE OF ANCHOR SHALL BE AS SPECIFIED ON THE DRAWINGS, WHILE BRAND AND MODEL OF ANCHOR MAY BE SELECTED FROM THE ABOVE LISTED ANCHORS. SUBSTITUTION ANCHORS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE

11.3 IN SOME CASES OF CRITICAL LOADING OR GEOMETRIC CONDITIONS, ONLY SPECIFIC ANCHORS WILL BE ALLOWED, AS NOTED ON THE DRAWINGS. IN THESE CASES, THE SPECIFIED BRAND AND MODEL OF ANCHOR MUST BE USED.

11.4. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

11.5. THE MANUFACTURER'S REPRESENTATIVE SHALL TRAIN INSTALLERS.

11.6. MINIMUM EMBEDMENT DEPTH OF 1/4" TAPCONS INSTALLED IN CONCRETE SHALL BE 1.25" AND INSTALLED INTO MASONRY SHALL BE 1.5". SELECT ANCHOR LENGTH AS REQUIRED TO ACHIEVE THE SPECIFIED MINIMUM EMBEDMENT DEPTH.

11.7. TAPCON SCREWS MAY BE REPLACED W/ 0.157" SHANK DIAMETER PAF ANCHORS (HILTI X-U OR EOUAL) ON A 1:1 SUBSTITUTION BASIS. MINIMUM EMBEDMENT DEPTH SHALL BE 1.25" WHEN INSTALLED INTO CONCRETE OR GROUTED MASONRY. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS, MINIMUM EDGE DISTANCES, AND PLACEMENT LIMITATIONS (RELATIVE TO MORTAR JOINTS IN MASONRY)

12. STRUCTURAL STEEL:

12.1. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

12.2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED: WIDE FLANGE SHAPES

ASTM A992 (Fv=50 KSI) ANGLES. CHANNELS AND PLATES ASTM A36 (Fv=36 KSI) RECTANGULAR HSS ASTM A500, GRADE B (Fy=46 KSI) ASTM A325 OR A490 ASTM A36 (Fy=36 KSI) ASTM A563

HEAVY HEX NUTS HARDENED STEEL WASHERS ASTM F436 ANCHOR RODS ASTM F1554 GR. 36 (Fy=36 KSI)

HIGH STRENGTH BOLTS

THREADED RODS

12.3. CONNECTIONS:

12.3.1. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE IN SNUG TIGHT CONDITION, U.N.O. TIGHTEN BY AN AISC APPROVED METHOD.

12.3.2. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.

12.3.3. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT AS NOTED OTHERWISE.

12.3.4. DETAIL FLOOR AND ROOF FRAMING CONNECTIONS FOLLOWING THE REQUIREMENTS SHOWN IN THE TYPICAL CONNECTION SCHEDULES SHOWN IN THESE DRAWINGS, BASED ON THE BEAM OR GIRDER SIZE 12.3.5. FOR THE PURPOSE OF CORRECTLY INTERPRETING THE CONNECTION SCHEDULES,

FLOOR OR ROOF BEAMS, OR ANY FLOOR OR ROOF BEAM WHICH CARRIES STEEL 12.3.6. DETAIL DIAGONAL BRACING CONNECTIONS AS SHOWN IN THE DETAILS. IF NO DETAIL IS

GIRDERS SHALL BE CONSIDERED AS ANY FLOOR OR ROOF BEAM WHICH CARRIES OTHER

PROVIDED, DETAIL CONNECTION TO DEVELOP THE FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.

12.4. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, OR SHORT SLOTTED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS. IF LONG SLOTTED OR OVERSIZED HOLES ARE USED, BOLTS MUST BE FULLY PRETENSIONED AND SLIP CRITICAL. PROPER SURFACE PREPARATION IS REQUIRED FOR SLIP CRITICAL BOLTS, INCLUDING OMISSION OF PRIMER OR FIRE PROOFING, AS APPROPRIATE.

12.5. BOLTS SHARING LOAD WITH WELDS IN A CONNECTION SHALL BE FULLY PRETENSIONED AND

12.6. WHERE FULLY PRETENSIONED OR SLIP CRITICAL BOLTS ARE REQUIRED. TIGHTENING SHALL BE ACHIEVED USING EITHER TWIST-OFF TENSION CONTROL BOLTS OR DIRECT TENSION INDICATING WASHERS.

12.7. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

12.8. GROUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.

12.9. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO

CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.

13. RAILINGS AND HANDRAILS

13.1. ENGINEERED RAILING SYSTEM AND CONNECTION OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

13.2. THE CONFIGURATION OF THE RAILING SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL 13.3. RAILING SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE BUILDING CODE.

13.4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND SHALL COMPLY WITH ALL APPLICABLE CODES. 13.5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE RAILING

SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM

SHOWN ON THESE DRAWINGS. 13.6. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER

REGISTERED IN THE STATE OF FLORIDA. 14. STRUCTURAL SUBMITTALS

14.1. SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS

14.1.1. PILE INSTALLATION QUALITY CONTROL

14.1.2. PILE INSTALLTION MONITORING LOG 14.1.3. CONCRETE ADMIXTURES

14.1.4. CONCRETE STRENGTH TESTS 14.1.5. CONCRETE DETAILING

14.1.7. ENGINEERED ROOF AND FLOOR TRUSSES 14.1.8. STEEL JOISTS 14.1.9. STRUCTURAL STEE

14.1.6. ENGINEERED FILL COMPACTION TESTING

14.1.10. HANDRAILS AND STAIRS

WALTON COUNTY DESIGN CERTIFICATION

WITH THE CRITERIA ESTABLISHED BY THE 2020 FLORIDA BUILDING CODE. THIS BUILDING AND/OR STRUCTURE IS DESIGNED TO WITHSTAND A WIND VELOCITY OF 137 MPH. THE WIND

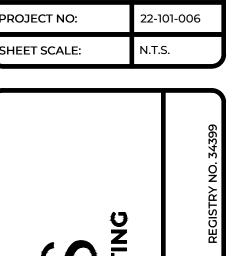
DESIGN IS IN ACCORDANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE. ALSO, UPON COMPLETION OF THIS BUILDING AND/OR STRUCTURE, I WILL CERTIFY THAT THE BUILDING AND/OR STRUCTURE HAS COMPLIED WITH THIS SPECIFIC BUILDING DESIGN. THIS MUST BE ON FILE AT THE WALTON COUNTY BUILDING DEPARTMENT BEFORE RECEIVING AN

UNDERSTAND THAT ANY CHANGE IN DESIGN OR SPECIFICATION MUST BE SUBMITTED IN WRITING BY ME TO THE BUILDING DEPARTMENT.



RELEASE RECORD		
REVIEW ONLY / N.F.C.	06/23/2022	

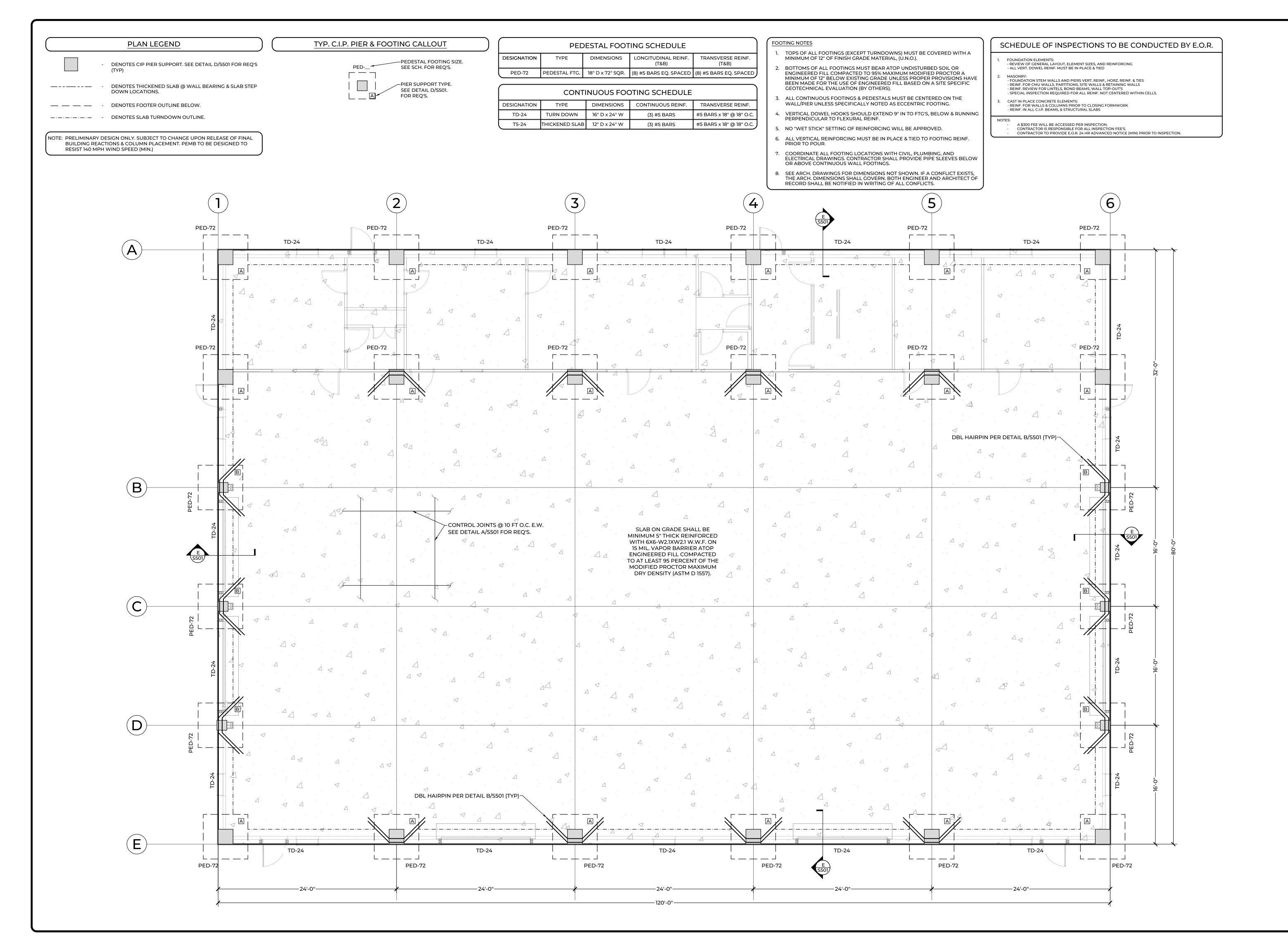
-	
DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	22-101-006
SHEET SCALE:	N.T.S.



SHEET TITLE

STRUCTURAL GENERAL

HEET NO.





RELEASE RECORD		
REVIEW ONLY / N.F.C.	06/23/2022	

DESIGNER:	RSL
REVIEWED BY:	CLH
PROJECT NO:	22-101-006
SHEET SCALE:	1/4"=1'-0" U.N.O



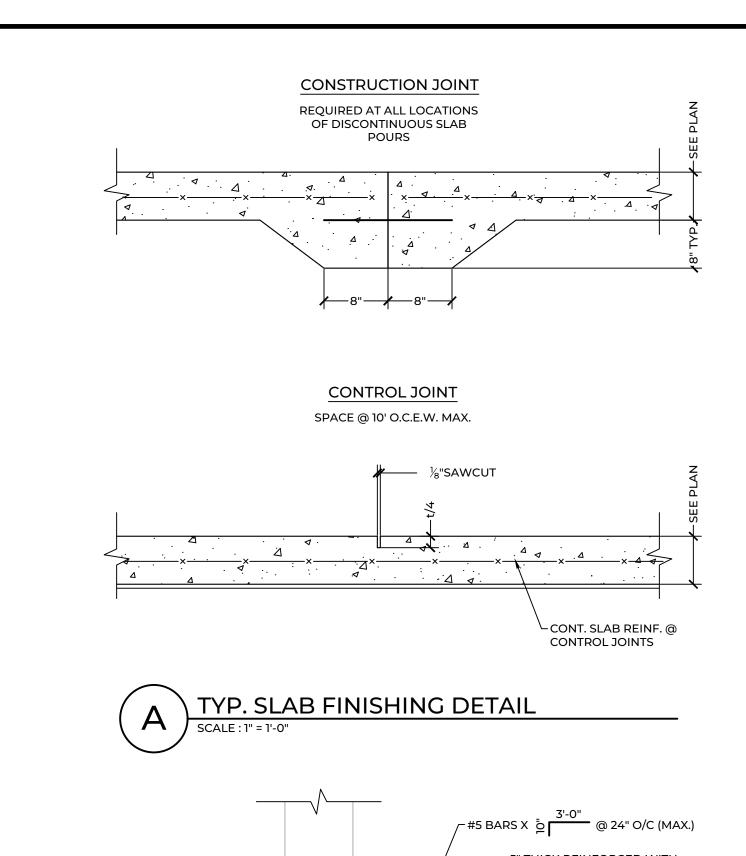
EAGLE SPRINGS
GOLF COURSE
MAINTENANCE BUILDING

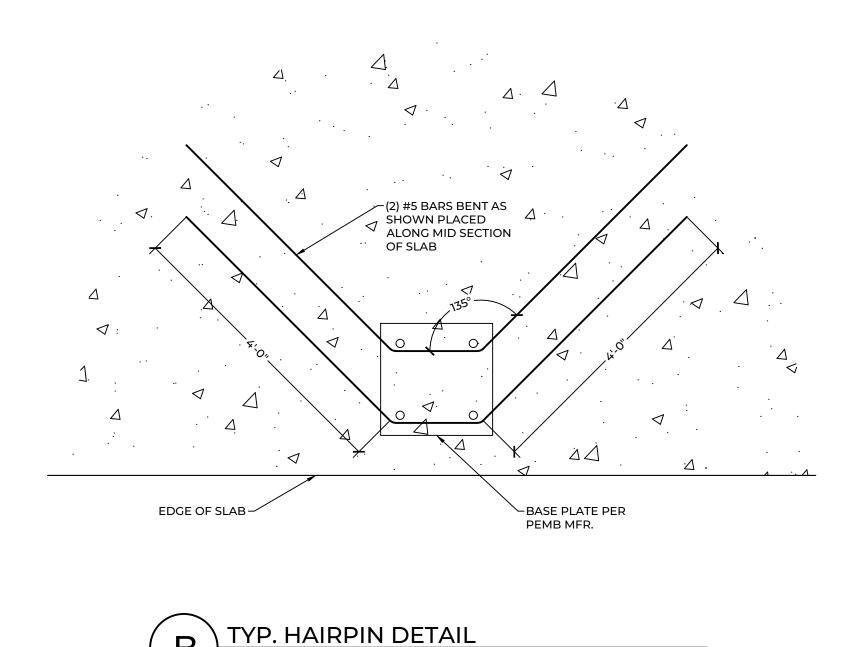
SHEET TITLE

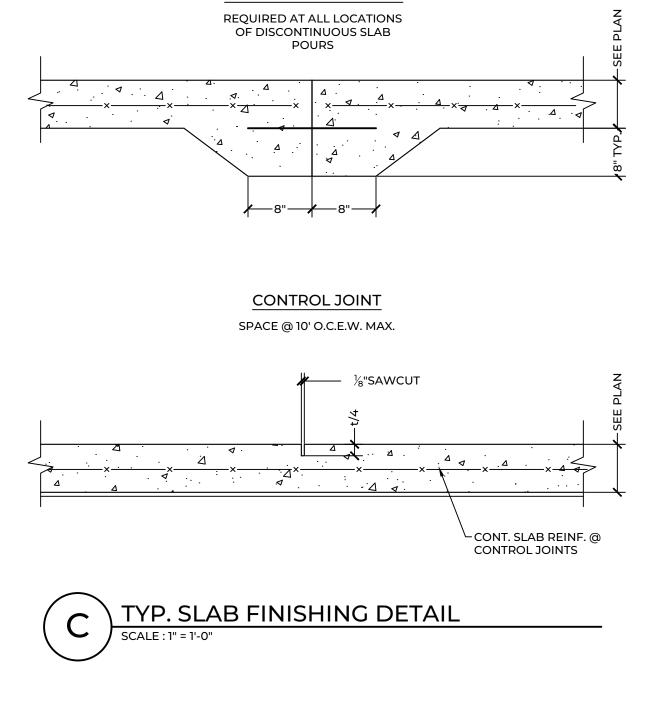
FOUNDATION PLAN

SHEET NO.

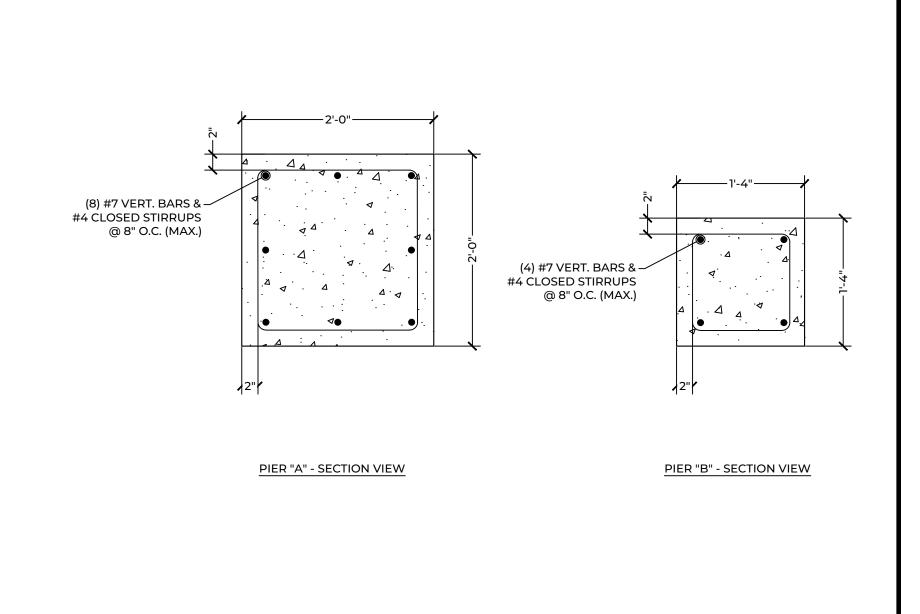
S101



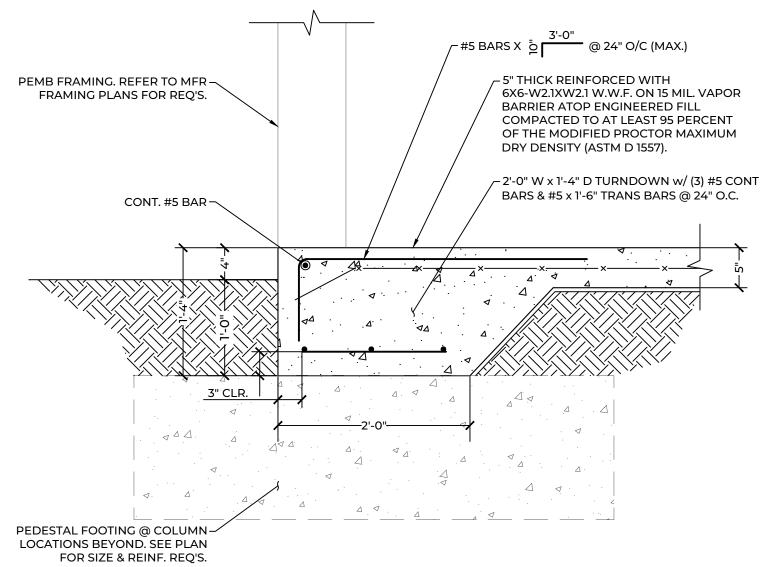


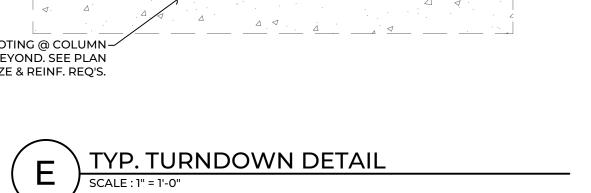


CONSTRUCTION JOINT



TYP. CONCRETE PIER DETAIL





NEW PRE-ENGINEERED BUILDING FOUNDATION

EAGLE SPRINGS GOLF COURSE MAINTENANCE BUILDING

WALTON COUNTY, FLORIDA



455 HARRISON AVE, SUITE B PANAMA CITY, FLORIDA 32401 PHONE: (850) 257-5316 EMAIL: INFO@ATLASENGINEERINGFL.COM REGISTRY NO. 34399

PROJECT INF	FORMATION	RELEASE	REC
DESIGNER:	RSL	REVIEW ONLY / N.F.C.	
REVIEWED BY:	CLH		
PROJECT NO:	22-101-006		
SHEET SCALE:	SEE DETAIL		

DETAILS

STRUCTURAL CONSTRUCTION S501

				Ε>	KHAUST	FAN S	CHEDUL	.E				
MARK	SERVICE	CFM	SP	TYPE	OPENING	OUTLET	INTERLOCKED	ACCES.	MOTO R HP	VOLT	ф	MODEL
EF-1	BATHROOM	50	0.1"	CEILING	13-¼" x 10-%"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-2	BATHROOM	50	0.1"	CEILING	13-1/4" x 10-1/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-3	BATHROOM	50	0.1"	CEILING	13-1/4" x 10-1/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A50
EF-4	BATHROOM	70	0.1"	CEILING	13-1/4" x 10-5/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A70
EF-5	BATHROOM	70	0.1"	CEILING	13-1/4" x 10-5/8"	6"ø	OCC SENSOR	1,2,3,4	FRAC	115	1	GREENHECK SP-A70
EF-6	GRINDER ROOM	500	0.3"	WALL PROPELLER	20.5X20.5	20.38	WALL SWITCH	1,2,4,5	1/4	115	1	GREENHECK AER-2VG
EF-7,8	STORAGE AREA HEAT AND FUME	5000	0.65"	WALL PROPELLER	38.5X38.5	⊟	WALL SWITCH	1,2,4,5,6	1	208	1	GREENHECK SBE-3H36-10
ACCESSOR	IES: 1) BACKDRAFT DAMPER 2) DISCO	NNECT 3)	CEILING	GRILLE 4) SPE	ED CONTROL 5)WAL	L SLEEVE 6	S) DAMPER AND 12	OV MOTOR				

	HIGH VOLUME LOW SPEED FAN SCHEDULE										
NO.	SERVICE	CFM	SP	HP	VOLTAGE	ROOM SERVED	TYPE	INTERLOCKED	ACCESS.	GREENHECK FAN MODEL	
HVLS-1,2	AREA VENT	29,000	_	1/4	115V	WORK BAYS	CEILING PROPELLER	DDC, VFD SPEED CTRL	1,2,3	BASE 6-12'	

EQUALS: ACME, PENN, COOK, CARNES NOTE: EF-7,8 FOR COMPLIANCE IF STORED VEHICLES EXCEED FUELING LIMITS - AFTER BID OWNER MAY PRECLUDE USE IF IN COMPLIANCE WITH FUELING REQUIREMENTS

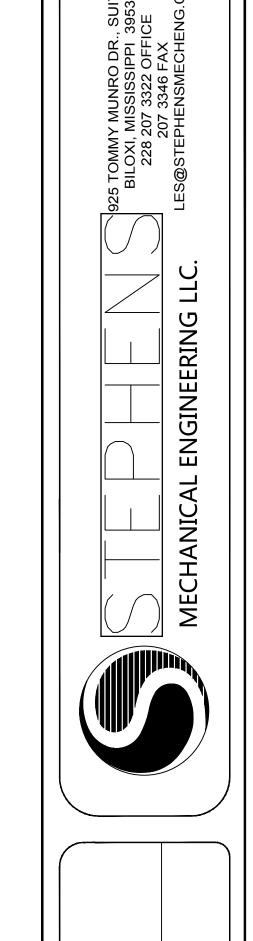
ACCESSORIES: 1)DISCONNECT 2)INTERNAL OVERLOAD PROTECTION 3) VFD WITH CONTROLLER 4) HANG KIT

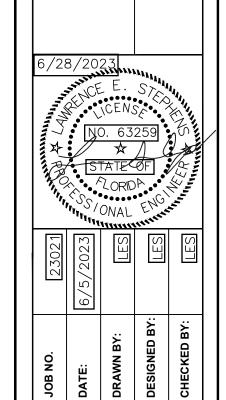
EQUALS: BIG ASS

HVAC GENERAL NOTES

- REFRIGERANT LINES FROM OUTDOOR CONDENSING UNITS SHALL BE EXTENDED FROM UNIT THRU WALL TO INDOOR UNITS. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
- 2. RECT. DUCT DIMENSIONS ARE METAL-TO-METAL SIZES AND INCLUDE AN ALLOWANCE FOR THE 1" DUCT LINER.
- 3. CENTER GRILLES, DIFFUSERS, & REGISTERS IN LAY-IN CEILING TILES.
- 4. ROUND DUCT DIMENSIONS ARE METAL-TO-METAL SIZES AND SHALL BE EXTERNALLY WRAPPED WITH 2" INSULATION.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL CONCRETE CONDENSING UNIT PADS.
- 6. 24V DAMPER OPERATOR TO OPEN WHEN FAN OPERATES, CLOSE WHEN FAN

	HVAC LEGEND
12×12	RECTANGULAR DUCT WITH 2" DUCT WRAP
12×12	RECTANGULAR DUCT WITH 1" LINER
12" Ø	ROUND DUCT WITH 2" DUCT WRAP
	ROUND DUCT WITH 2" DUCT WRAP
4++++	FLEX DUCT
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
رر	SQUARE ELBOW WITH TURNING VANES - RECT. DUCT
	ROUND ELBOW - 5 PIECE 90, 3 PIECE 45
F=0 F=0	ROUND ELBOW (12" OR LESS) - 5 PIECE 90, 3 PIECE 45
——————————————————————————————————————	MANUAL VOLUME DAMPER
—— <u>—</u>	MOTORIZED VOLUME DAMPER
	CEILING DIFFUSER (FLOW DIRECTION INDICATED)
	RETURN AIR GRILLE
	THERMOSTAT (CONTROLLER LOCATION)
T	THERMOSTAT (BULB LOCATION)
[SP]	STATIC PRESSURE SENSOR
XX #	EQUIPMENT TAG
FACE NECK	DIFFUSER/GRILLE TAG
NIC	NOT IN CONTRACT (NO WORK)
CFM	CUBIC FEET PER MINUTE
(CUBIC FEET PER MINUTE
ф	ROUND DUCT
	THERMOSTAT



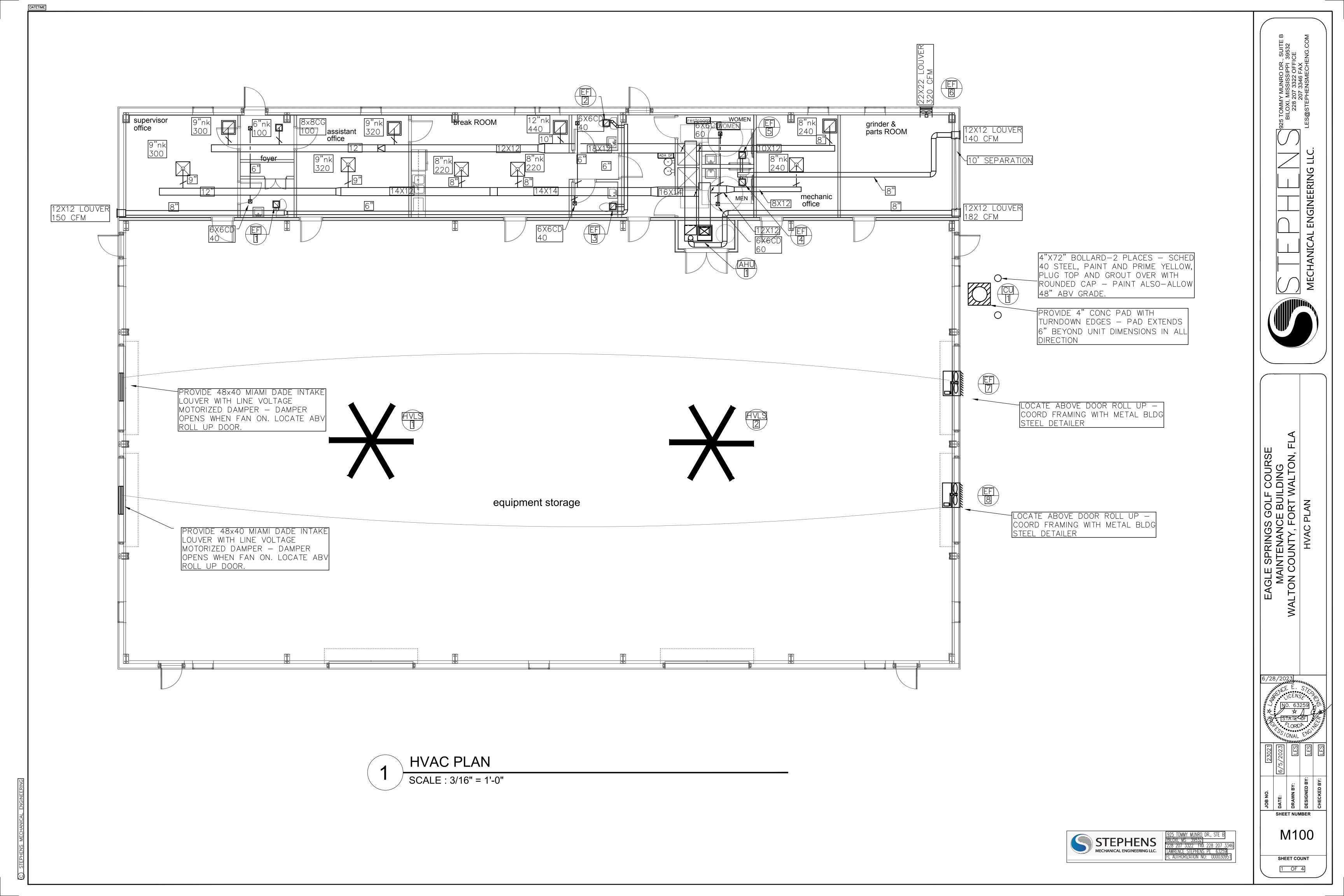


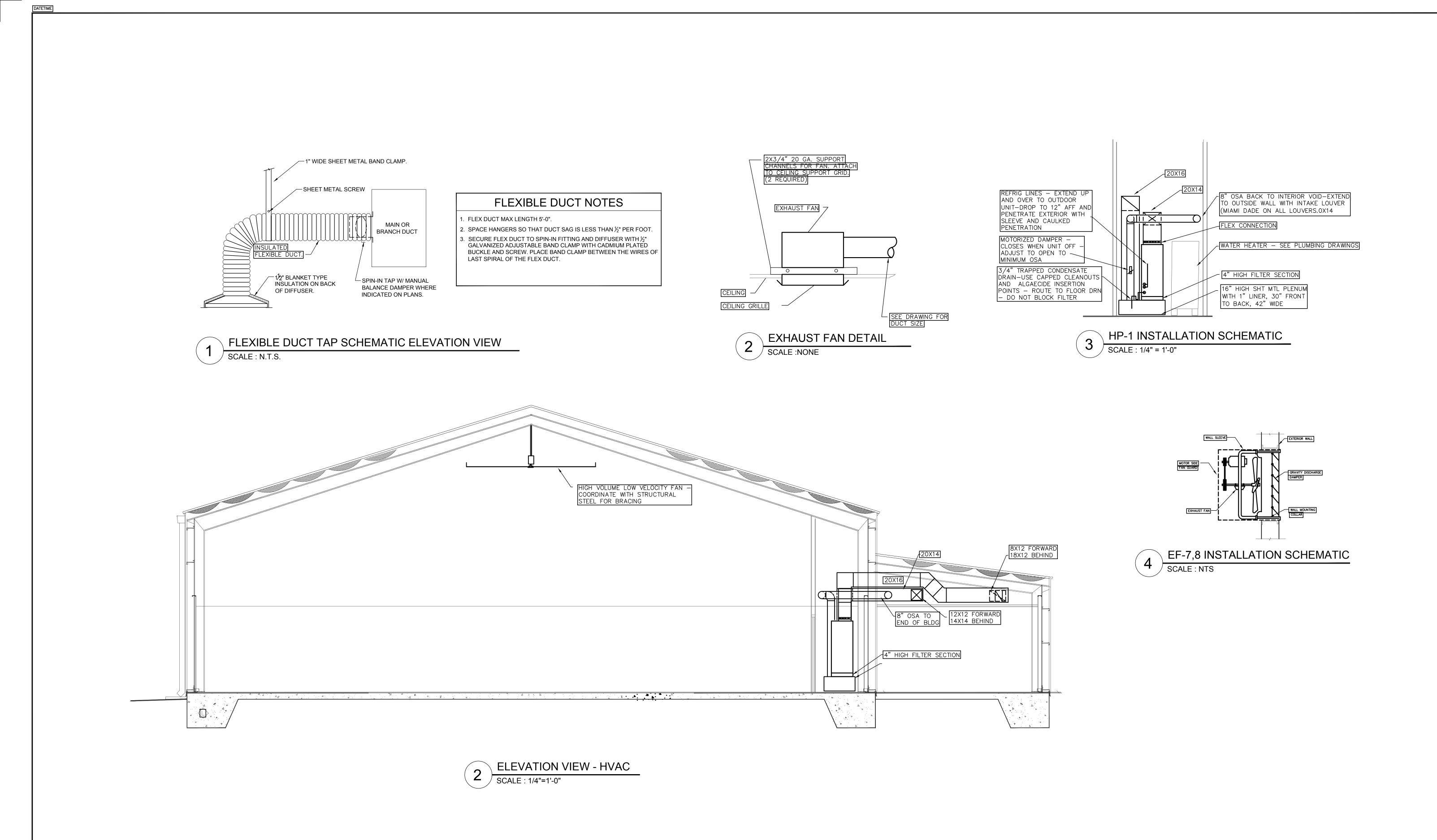
SHEET NUMBER

M001

SHEET COUNT

925 TOMMY MUNRO DR., STE B BILOXI, MS 39532 228 207 3322 FAX 228 207 334 LAWRENCE STEPHENS PE 63259 FL AUTHORIZATION NO: 000030951 STEPHENS MECHANICAL ENGINEERING LLC.



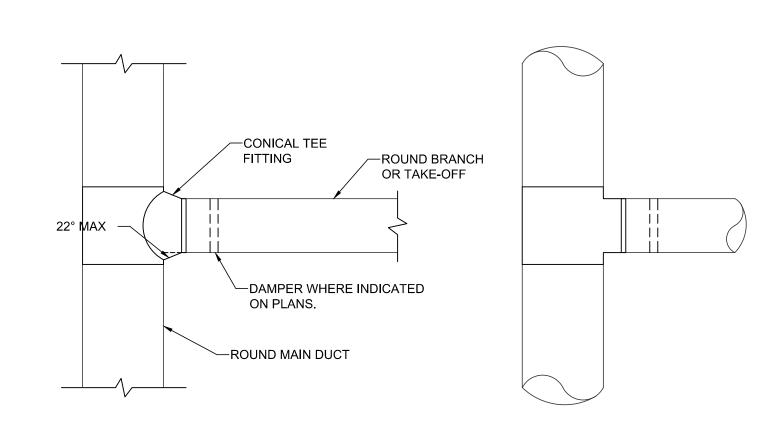


STEPHENS
MECHANICAL ENGINEERING LLC.

| 925 TOMMY MUNRO DR., STE B | BILOXI, MS 39532 | 228 207 3322 FAX 228 207 3346 | LAWRENCE STEPHENS PE 63259 | FL AUTHORIZATION NO: 000030951 | SHEET COUNT

1 OF 4

ENGINEERING



1 CONDENSATE TRAP SCHEMATIC

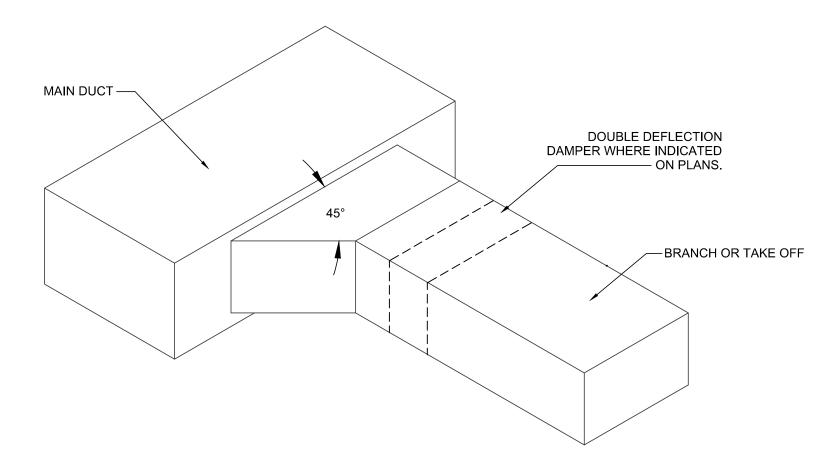
2 ROUND DUCT TAP SCHEMATIC - PLAN VIEW SCALE : N.T.S.

Ventilation Sizing Summary for BLOCK LOAD

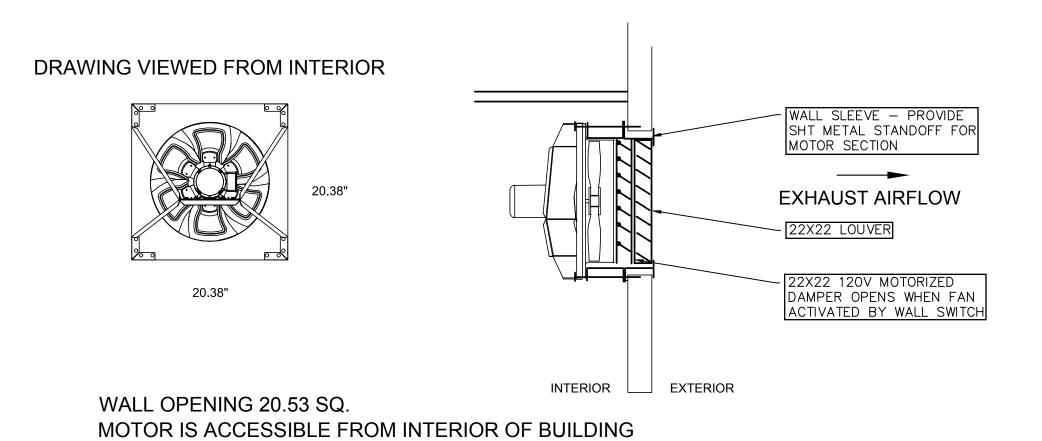
1. Summary	
Ventilation Sizing Method	ASHRAE Std 62.1-2013
Design Condition	
Occupant Diversity (D)	<u> </u>
Uncorrected Outdoor Air Intake (Vou)	
System Ventilation Efficiency (Ev)	0.831
Outdoor Air Intake (Vot)	218 CFM

2. Space Ventilation Analysis

	Sı	upply Air (CFM)	•	Area Outdoor Air Rate (CFM/ft²)	Time Averaged Occupancy (Occupants)	People Outdoor Air Rate (CFM/person)	Distribution	Space : Outdoor Air (CFM)	Breathing Zone Outdoor Air (CFM)	Space Ventilation Efficiency
Zone Name / Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)
Zone 1										
SUPERVISOR	1	316	118.0	0.06	1.0	5.00	0.8	15	12	1.043
ASSISTANT	1	315	239.0	0.06	1.0	5.00	0.8	24	19	1.014
BREAK ROOM	1	467	336.0	0.12	5.0	5.00	0.8	82	65	0.916
FOYER	1	39	52.0	0.06	1.0	5.00	0.8	10	8	0.831
GRINDER & PARTS	1	355	236.0	0.06	2.0	5.00	0.8	30	24	1.005
MECHANIC OFFICE	1	289	175.0	0.06	2.0	5.00	0.8	26	21	1.002
MENS	1	85	78.0	0.06	1.0	5.00	0.8	12	10	0.947
TOILET LOBBY	1	92	117.0	0.06	1.0	5.00	0.8	15	12	0.928
WOMEN	1	50	88.0	0.06	1.0	5.00	0.8	13	10	0.834
Totals (incl. Space Multipliers)		2008							182	0.831



RECTANGULAR DUCT TAP SCHEMATIC - ISOMETRIC VIEW SCALE: N.T.S.



6 EF-6 INSTALLATION SCHEMATIC

STEPHENS
MECHANICAL ENGINEERING LLC.

925 TOMMY MUNRO DR., STE B
BILOXI, MS 39532

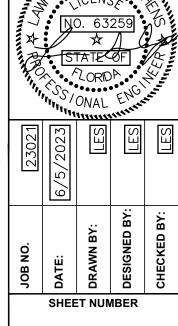
228 207 3322 FAX 228 207 3346

[AWRENCE STEPHENS PE 63259]
[FL AUTHORIZATION NO: 000030951]

6/28/2023 MALTON

WALTON

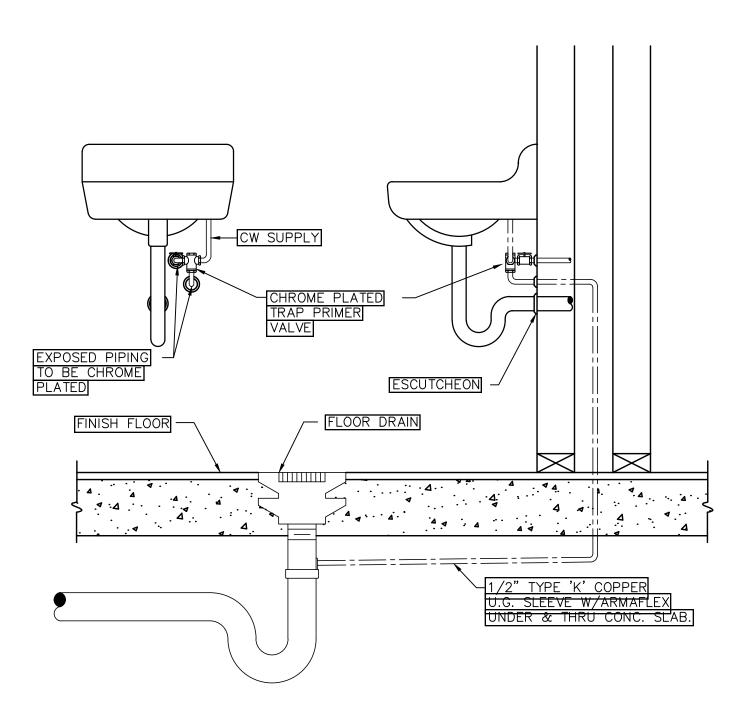
WALTON



SHEET COUNT

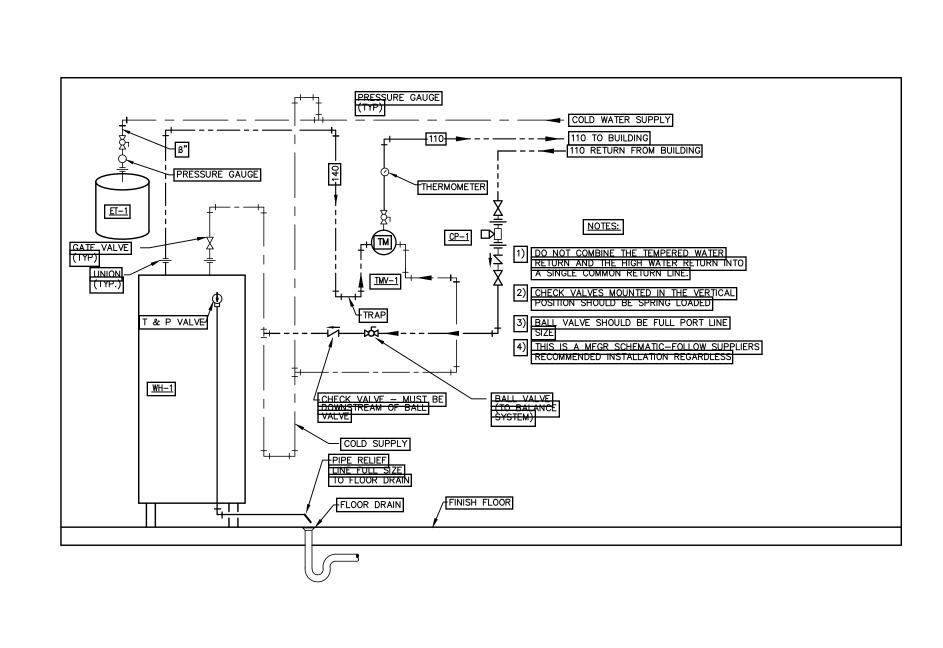
						V	/ATE	RH	EATER	SCH	EDULE	
MARK	LOCATION	MIN. STORAGE	MIN. RECOVERY	TEMP. SETTING	TEMP RISE	VOLT.		TRICAL	ELEMENTS	[REMARKS	
		GAL	GPH	F	۴	\vee	Ø	KW	#			
WH-2	MECH CLOSET-MAIN BAY	50	40	140	60	208	3	4.5	2			
	SE SAFETY PAN BELOW HEATER NLINE CIRCULATOR FOR RETURN											

_	WATER HA	
SIZE	FIXTURE UNITS	PDI STANDARD
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/2"	61-113	D
1-3/4"	114-154	E
2"	155-330	F

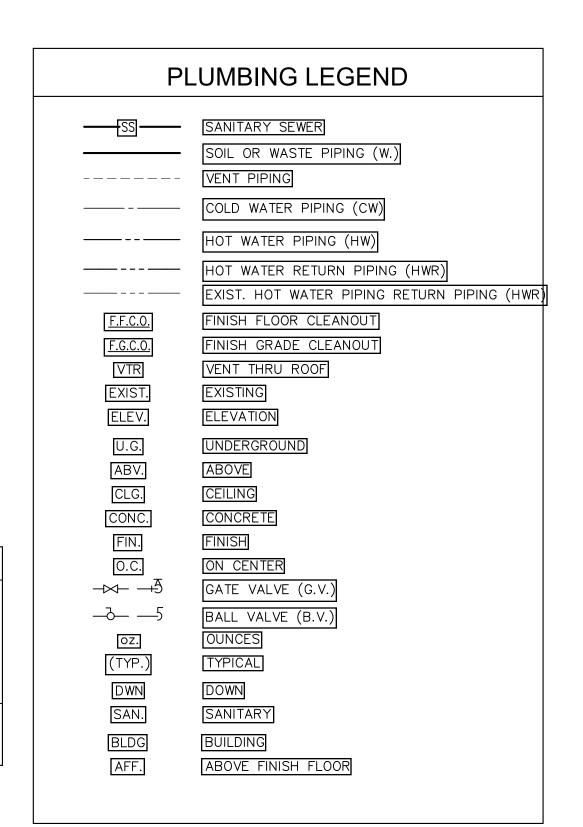


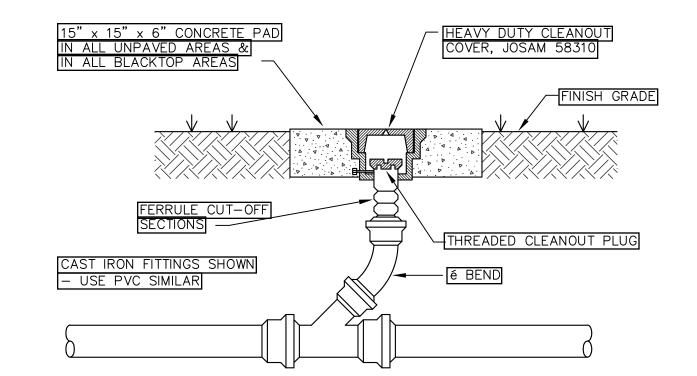
TRAP PRIMER INSTALLATION DETAIL

SCALE : NTS

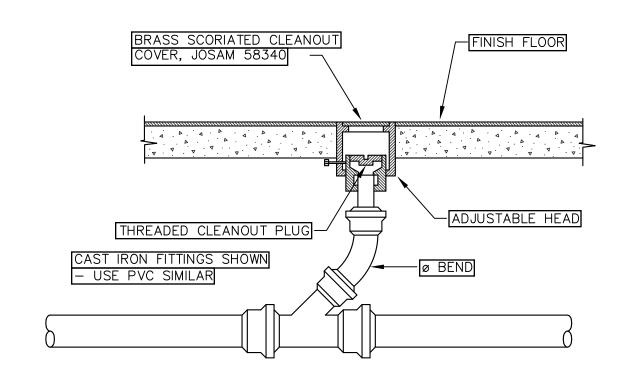


WATER HEATER DETAIL SCALE: NTS

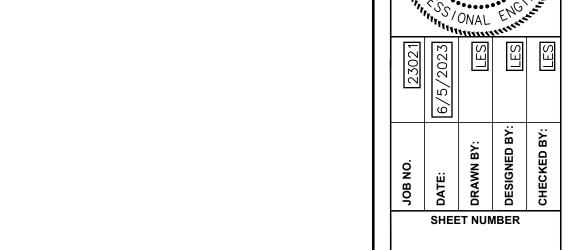




FINISH GRADE CLEANOUT DETAIL SCALE: NTS

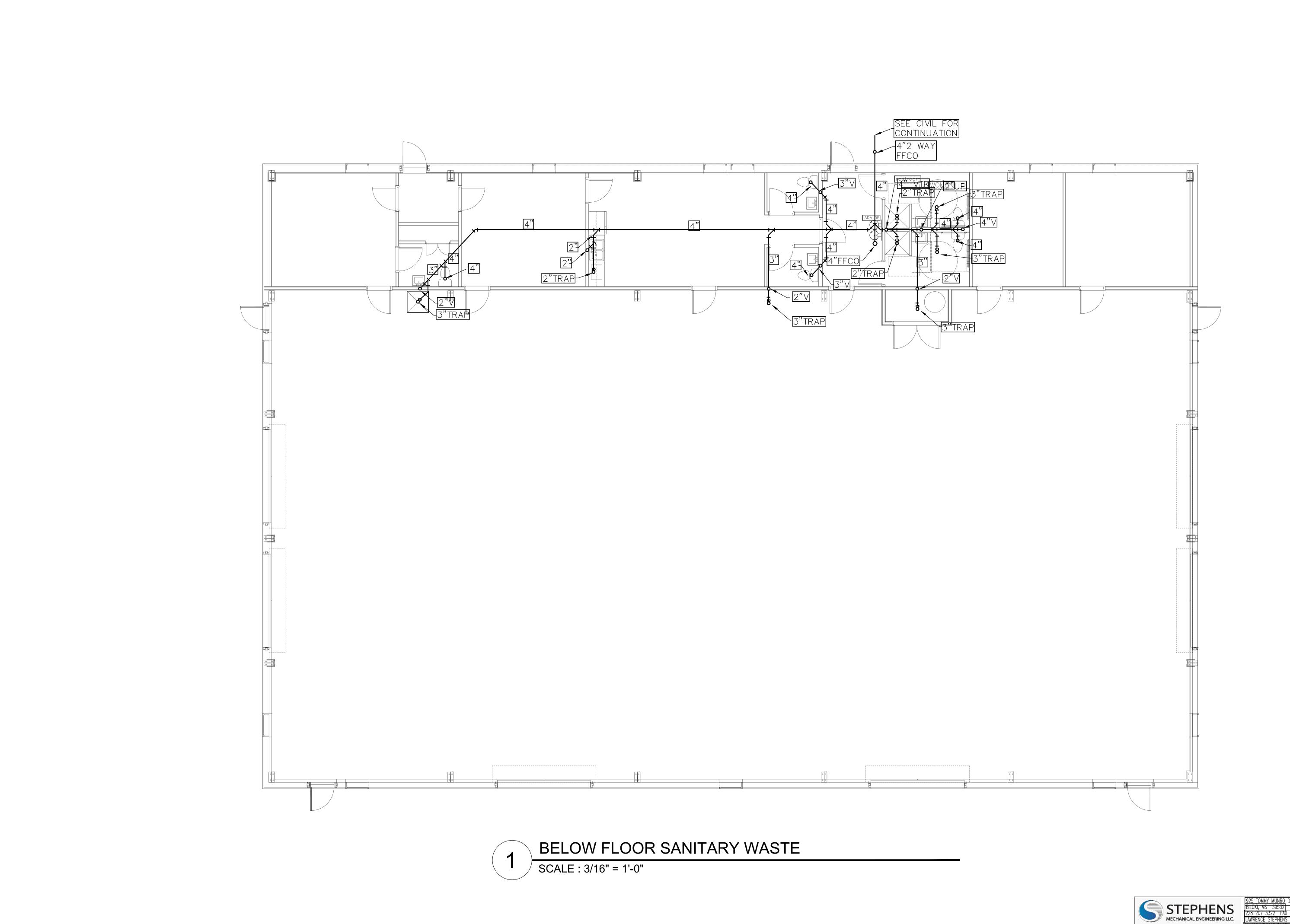


FINISH FLOOR CLEANOUT DETAIL SCALE : NTS



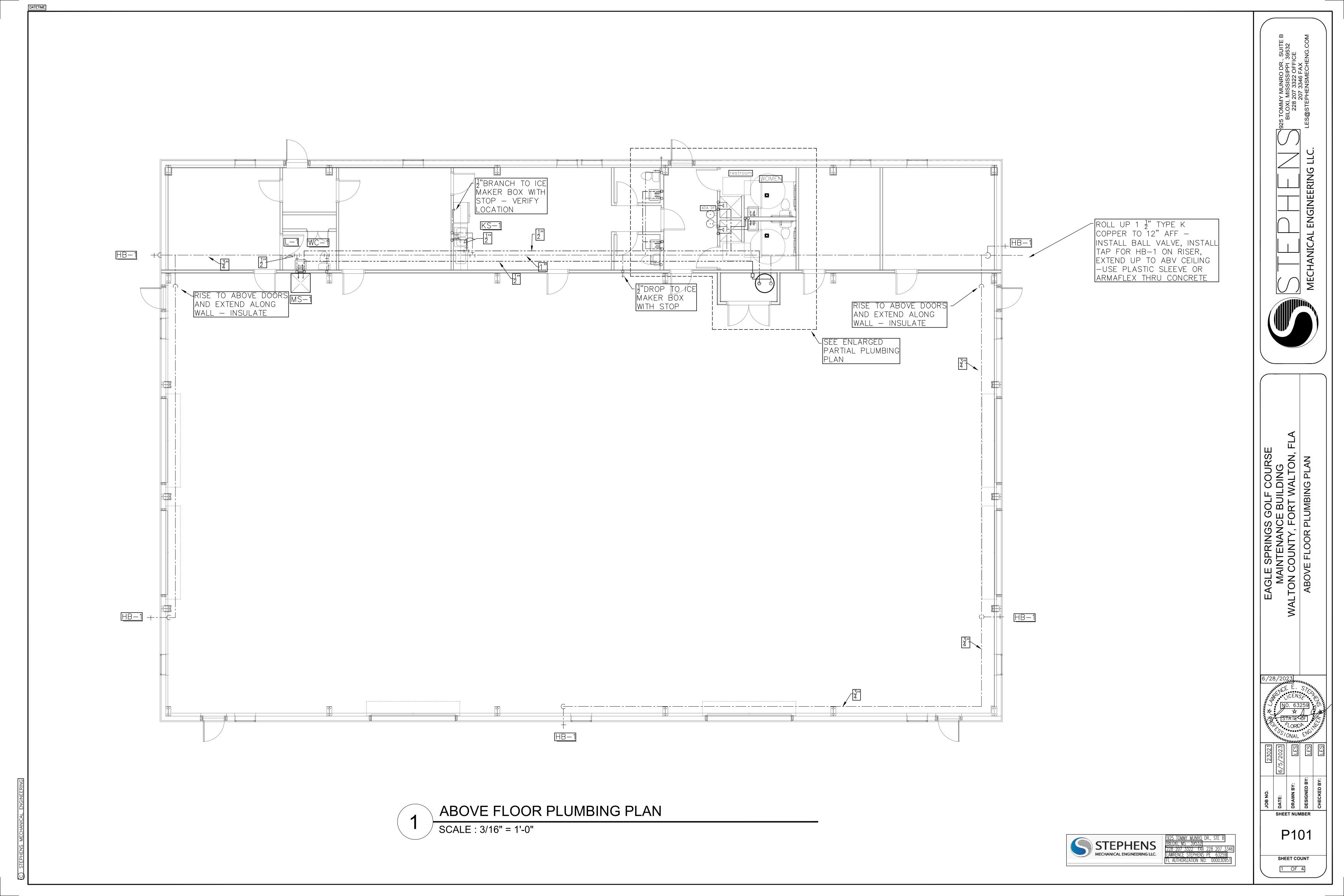
P001

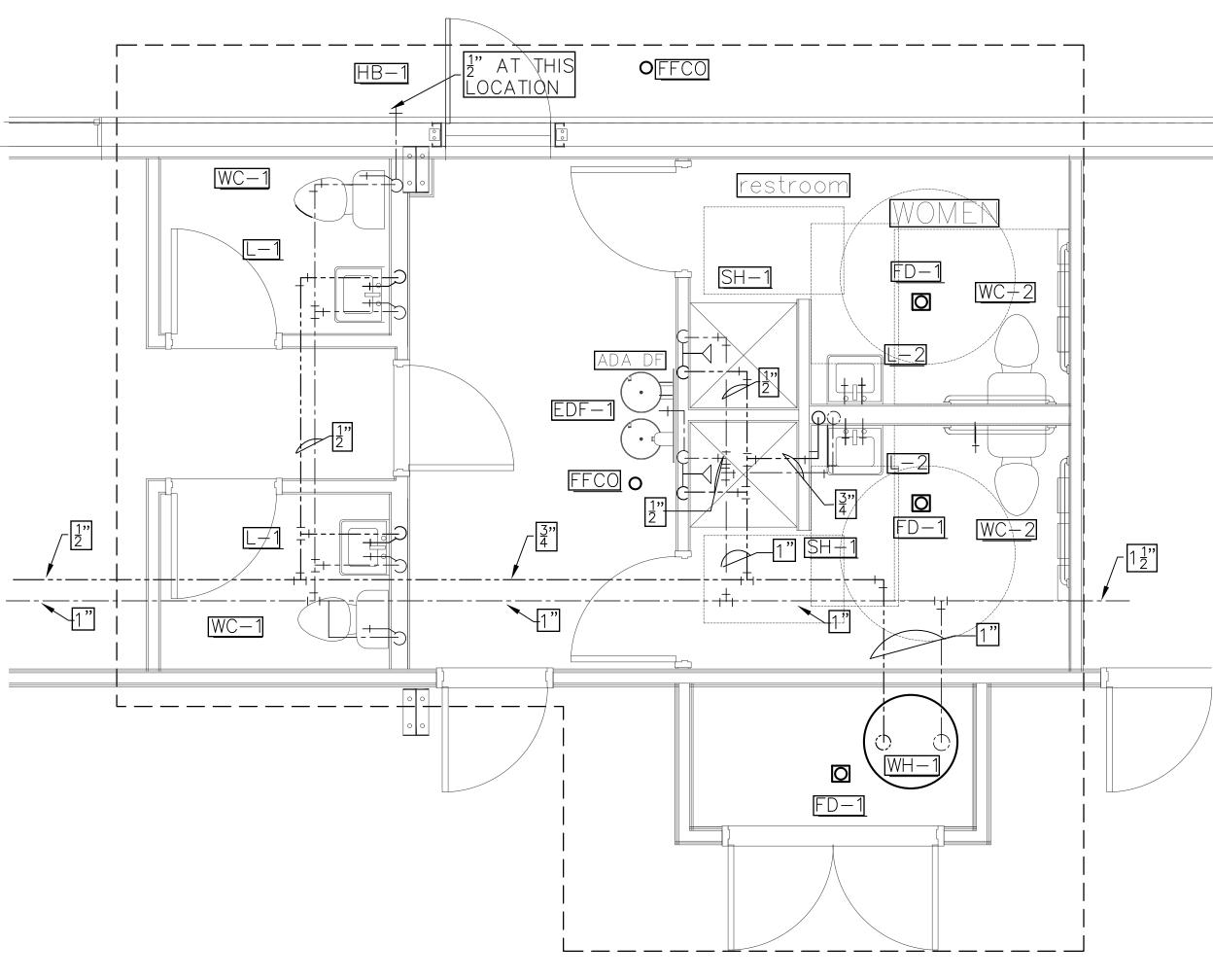
SHEET COUNT 1 OF 4



P100

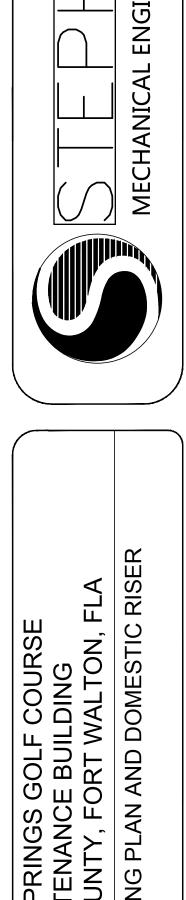
SHEET COUNT





ENLARGED PLUMBING PLAN SCALE : 1/4" = 1'-0"

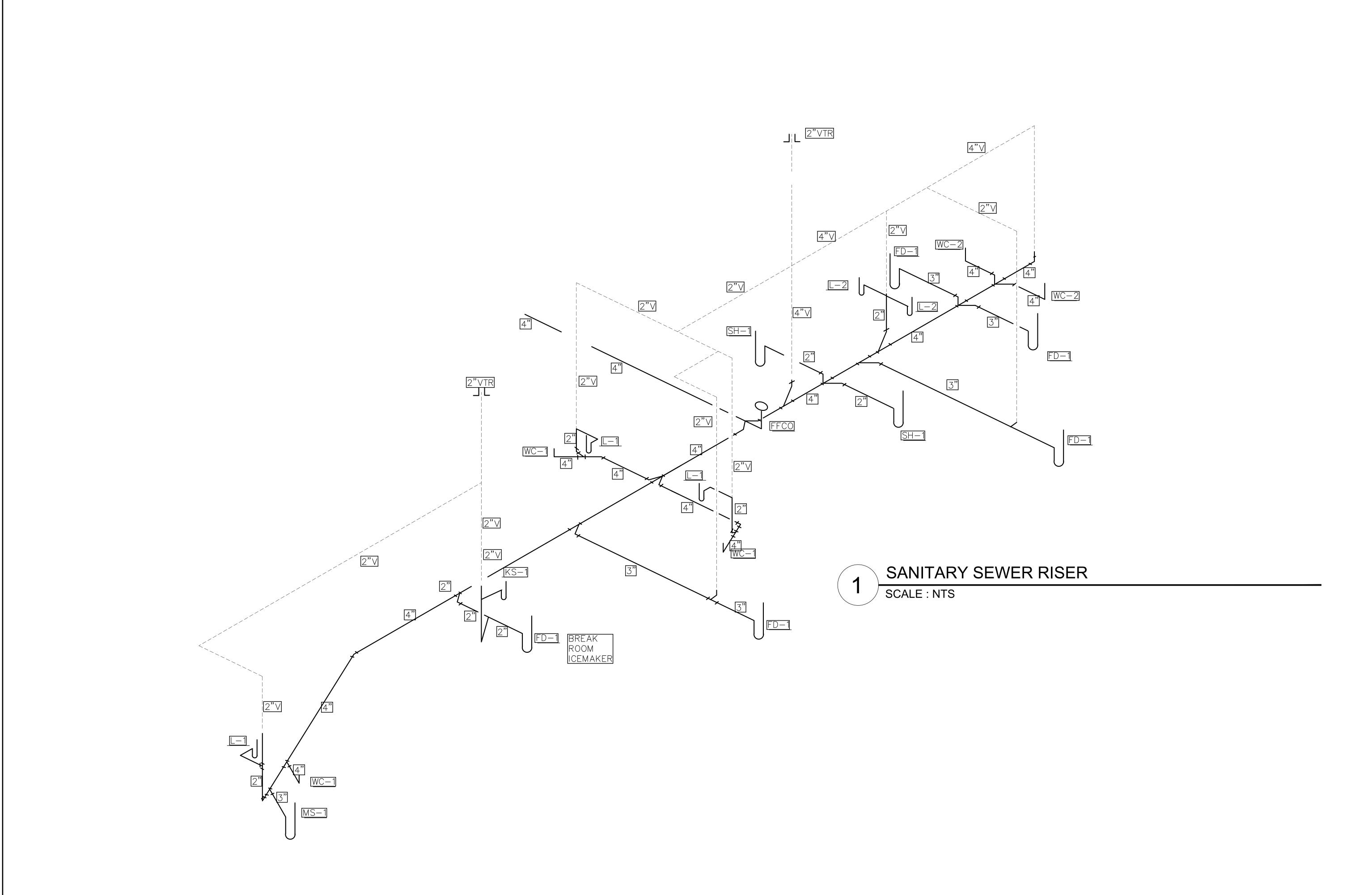




TO WATER SERVICE ENTRANCE

SEE WATER HEATER DETAIL

P102 SHEET COUNT





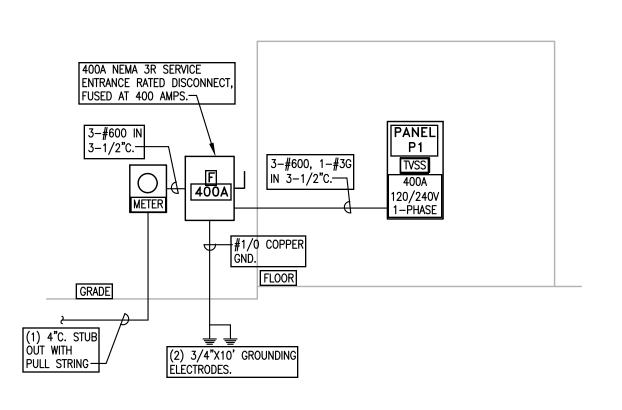
P103

SHEET COUNT

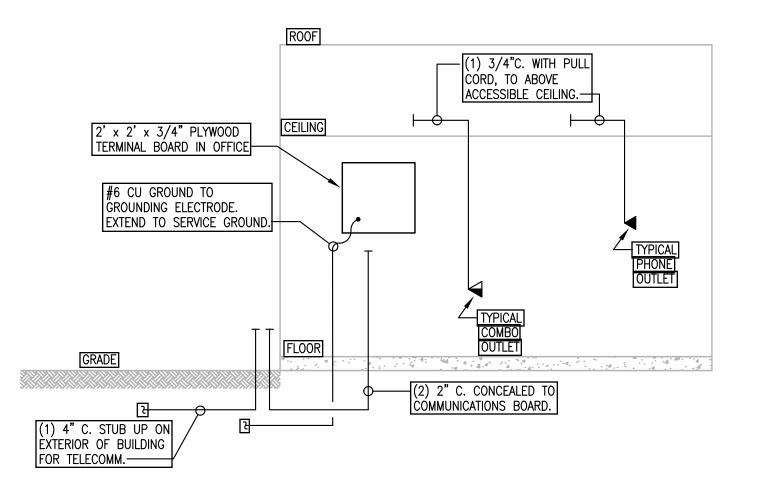
	ELECTRICA	AL LEGEND
	LIGHTING	CONDUIT AND WIRE
	SURFACE MOUNT, WRAP FIXTURE	FLEXIBLE CONDUIT, SEALTITE AT WET LOCATIONS
0	RECESSED CEILING FIXTURE	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
\(\rightarrow	SURFACE/STRUCTURE HI-BAY FIXTURE	CONDUIT BELOW FLOOR OR CONCEALED IN WALL
₩	BATTERY BACKUP EMERGENCY/EGRESS FIXTURE	CONDUIT EXPOSED CIRCUIT CONDUCTORS IN CONDUIT
	SWITCHES	—
	JWITCHLJ	WITH NEUTRALS
\$	SINGLE POLE SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED	GROUND CONDUCTORS IN CONDUIT
\$	THREF WAY SWITCH — 20A, 120/277V +48" AFF, UNLESS NOTED	CONDUIT UP CONDUIT DOWN
	FOUR WAY SWITCH - 20A, 120/277V +48" AFF, UNLESS NOTED	
	MOTION SENSOR SWITCH, WALL MOUNT 48" AFF	CIRCUIT HOMERUN TO PANEL BOARD. XX-XX DENOTES PANEL NAME AND CIRCUIT NUMBER
	SINGLE POLE FAN SWITCH - 20A, 120/277V,	CONTINUATION OF CONDUIT RUN
_	+48" AFF, UNLESS NOTED PHOTO ELECTRIC CONTROL, MOUNT AT BUILDING FACADE, UNLESS NOTED	DEVICES
		DUPLEX RECEPTACLE - 20A, 120V
	MOTORIZED DOOR OPEN/CLOSE CONTROL	
	SWITCHGEAR	GFI, WEATHER RESISTANT DUPLEX RECEPTACLE — 20A, 120V WITH IN—USE WEATHERPROOF COVER
마	NON FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS	SINGLE RECEPTACLE - 30A, 250V, 2W, G
Ð	FUSED SAFETY SWITCH	SINGLE RECEPTACLE — 30A, 250V, 2W, G WITH IN-USE WEATHERPROOF COVER
₩	NEMA 3R AT WET LOCATIONS COMBO MOTOR STARTER/SAFETY SWITCH	SINGLE RECEPTACLE - 50A, 250V, 2W, G
	[LIGHT AND POWER PANELBOARD]	20A, 120V, CORD CAP, 250V, 2W, G MOUNTED FROM CEILING
<u> </u>	METER	K&H INDUSTRIES RTFH3L-WW-B12K, OR EQUAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	30A, 120V, CORD CAP, 250V, 2W, G MOUNTED FROM CEILING [30] K&H INDUSTRIES RTFD3L—WW—B10G, OR EQUAL
	SPECIAL ELECTRICAL CONNECTION	MOUNT ALL DEVICES AT +18" AFF, UNLESS NOTED OTHERWISE.
△ WH	WATER HEATER ELECTRICAL CONNECTION	COMMUNICATIONS
△ EF	EX. FAN ELECTRICAL CONNECTION	TELEPHONE OUTLET
AHU	AIR HANDLING UNIT ELECTRICAL CONNECTION	+18" AFF, UNLESS NOTED
△ CU	CONDENSING UNIT ELECTRICAL CONNECTION	COMBO DATA/TELEPHONE OUTLET +18" AFF, UNLESS NOTED
		TELEPHONE/TELEVISION TERMINAL BOARD 3/4" 2'x2' FIRE RATED PLYWOOD

			LUMINA	IRE SCHEDULE	
MARK	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER	EQUALS
C1	LED	RECESSED CEILING	LED, 6" RECESSED WAFER LIGHT	LITHONIA WF6-LED-35K-MVOLT	OR APPROVED EQUAL
EWP	LED	WALL; ABOVE DOOR	EMERGENCY/EGRESS FIXTURE, EXTERIOR	ISOLITE OWL-EM-BZ-MB	OR APPROVED EQUAL
F1	LED	SURFACE CEILING	LED, LOW PROFILE WRAPAROUND FIXTURE	LITHONIA LBL4-4800LM-80CRI-35K-MVOLT	OR APPROVED EQUAL
F1E	LED	SURFACE CEILING	LED, LOW PROFILE WRAPAROUND FIXTURE, W/EMERGENCY	LITHONIA LBL4-4800LM-80CRI-35K-MVOLT-EL14L	OR APPROVED EQUAL
Н1	LED	SUSPENDED AT STRUCTURE	LED, ROUND HI-BAY FIXUTRE, SWITCHABLE LUMENS	LITHONIA CPRB-ALO13-UVOLT-SWW9-80CRI-DWH-12000/15000/18000	OR APPROVED EQUAL
W1	LED	WALL; (VERIFY)	LED, EXTERIOR WALL PACK	LITHONIA TWX1-LED-ALO-40K-MVOLT-DDBTXD	OR APPROVED EQUAL
W 2	LED	WALL; (VERIFY)	LED, EXTERIOR WALL PACK	LITHONIA TWX2-LED-ALO-40K-MVOLT-DDBTXD	OR APPROVED EQUAL
XE	RED LED	WALL/CEILING	COMBO EXIT/EMERGENCY EGRESS - 1 SIDE - ALUMINUM HOUSING	ISOLITE DCL-R-U-BA-BA-MTEBP	OR APPROVED EQUAL
ΓΕ: LUMIN	I IAIRES WITH "E" DESIGI	NATION SHALL HAVE INTEGRAL EMERG	GENCY BALLAST. CONNECT EMERGENCY BALLAST ONLY AHEAD OF ANY SWITCHING.	NORMAL BALLAST TO BE SWITCHED AS INDICATED, UNLESS NOTED OTHERWISE.	-1

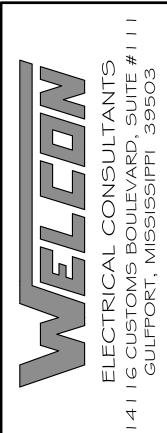
PA	NEL	BUSS: 400 AMP	VOLT: 120/24	10V, 1 PHA	SE, 3 WIR	RE		AIC RATING: 22,000					
F	P1	MAINS: 400A MLO	MOUNT: SUR	FACE, NE	MA 1			LOCATION: G	RINDER & PARTS ROOM				
01/7		PEGGETTON		LOAD	(AMPS)	LOAD	(AMPS)		2500000000	DICE	01/7		
СКТ.	BKR.	DESCRIPTION	FEEDER	A	A C		С	FEEDER	DESCRIPTION	BKR.	СКТ.		
1	20/1	EXTERIOR LIGHTS	2-12, 1-12G	8		13.2		2-12, 1-12G	EQUIP. STOR. LIGHTS	20/1	2		
3	20/1	LIGHTS	2-12, 1-12G		10		8.8	2-12, 1-12G	EQUIP. STOR. LIGHTS		4		
5	20/1	EXHAUST FAN	2-12, 1-12G	5.8		6		2-12, 1-12G	REC GRINDER/PARTS ROOM	20/1	6		
7	20/1	REC COMM. BOARD	2-12, 1-12G		3		7.5	2-12, 1-12G	REC MECH. OFFICE	20/1	8		
9	20/1	REC RESTROOMS	2-12, 1-12G	7.5		6		2-12, 1-12G	REC DRINKING FOUNTAINS	20/1	10		
11	20/1	REC BREAK ROOM	2-12, 1-12G		4.5		4.5	2-12, 1-12G	REC BREAK ROOM	20/1	12		
13	20/1	ICE MACHINE	2-12, 1-12G	10		3		2-12, 1-12G	REC BREAK ROOM.	20/1	14		
15	20/1	REC BREAK ROOM REFRIG.	2-12, 1-12G		8		12	2-12, 1-12G	REC ASSIST. OFFICE	20/1	16		
17	20/1	REC SUPERVISOR OFFICE	2-12, 1-12G	10.5		7.5		2-12, 1-12G	REC EQUIP. STORAGE	20/1	18		
19	20/1	REC EQUIP. STORAGE	2-12, 1-12G		9		1.5	2-12, 1-12G	REC EQUIP. STOR. CORD REEL	20/1	20		
21	20/1	REC EQUIP. STORAGE	2-12, 1-12G	9		5.8		2-12, 1-12G	EQUIP. STOR. FAN	20/1	22		
23	20/1	EQUIP. STOR. FAN	2-12, 1-12G		5.8		5	2-12, 1-12G	ROLL UP DOOR	20/1	24		
25	20/1	ROLL UP DOOR	2-12, 1-12G	5		5		2-12, 1-12G	ROLL UP DOOR	20/1	26		
27	20/1	ROLL UP DOOR	2-12, 1-12G		5		5	2-12, 1-12G	ROLL UP DOOR	20/1	28		
29	00/0		0.40.4.400	8		5		2-12, 1-12G	ROLL UP DOOR	20/1	30		
31	20/2	EF-7 AND LOUVER	3-12, 1-12G		8				SPARE	20/1	32		
33			0.40.4.400	15		8					34		
35	30/2	REC EQUIP. STORAGE	2-10, 1-10G		15		8	3-12, 1-12G	EF-8 AND LOUVER	20/2	36		
37			0.40.4.400	15		15					38		
39	30/2	REC EQUIP. STORAGE	2-10, 1-10G		15		15	2-10, 1-10G	REC EQUIP. STORAGE	30/2	40		
41			0.40.4.400	15		15					42		
43	30/2	REC GRINDER/PARTS	2-10, 1-10G		15		15	2-10, 1-10G	REC EQUIP. STORAGE	30/2	44		
45			0.40.4.400	20		15		0.40.4.400			46		
47	30/2	REC EXTERIOR	3-10, 1-10G		20		15	2-10, 1-10G	REC GRINDER/PARTS	30/2	48		
49	20/1	SPARE				20					50		
51	20/1	SPARE					20	2-10, 1-10G	ICE MACHINE	30/2	52		
53	05.15		0.40.4.400	22		18.75		0.40.4.400	1	25.5	54		
55	30/2	AHU-1 #2	2-10, 1-10G		22		18.75	2-10, 1-10G	WH-1	30/2	56		
57	50/0	011.4	0.0.4.100	26		51		0.0.4.400	A1111 4 1/4	00/0	58		
59	50/2	CU-1	2-8, 1-10G		26		51	2-6, 1-10G	AHU-1 #1	60/2	60		
				176.8	166.3	194.3	187.1						
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					CONNECT	ED LOADS PI	K PHASE	C phase	353.4	am	ıps		





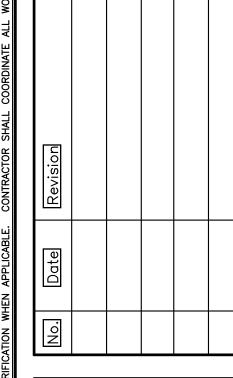


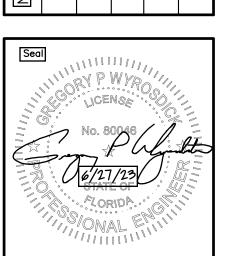
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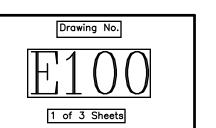
AGLE SPRINGS GOLF OURSE MAINT. BUILDING ALTON COUNTY, FLORIDA

CLECTRICAL LEGEND, LUMINAIRE SCHEDULE, PANELBOARD SCHEDULE AND DETAILS





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П	Project No.	23-SM-03
П	Date	06/27/2023
П	Drawn By	WH
П	Checked By	GPW
П	Scale	AS SHOWN



ELECTRICAL GENERAL NOTES AND SPECIFICATIONS

BASIC ELECTRICAL REQUIREMENTS

- . ALL ELECTRICAL WORK TO CONFORM TO CURRENT EDITIONS OF THE FLORIDA BUILDING CODES, AND OTHER APPLICABLE LOCAL, STATE, AND FEDERAL LAWS, ORDINANCES, AND REGULATIONS. WHERE DRAWINGS OR SPECIFICATIONS EXCEED CODE REQUIREMENTS, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN. NO WORK SHALL BE INSTALLED WHICH IS LESS THAN MINIMUM LEGAL STANDARDS.
- 2. ALL WORK PERFORMED UNDER THIS DIVISION SHALL BE INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

 3. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING WORK. NO ADDITIONAL SCOPE WILL BE
- AUTHORIZED DUE TO LACKING OF UNDERSTANDING ON EXISTING CONDITIONS.
- 4. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANIES FOR SERVICE ENTRANCE REQUIREMENTS TO THE BUILDING/FACILITY. SERVICE ENTRANCES TO BE INSTALLED PER RESPECTIVE UTILITY COMPANY REQUIREMENTS.
- 6. PROVIDE ONE YEAR WARRANTY, RECORD (AS-BUILT) DRAWINGS, AND OPERATION/MAINTENANCE MANUALS ON ALL ELECTRICAL EQUIPMENT AND LIGHTING.
 7. DURING CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE CARE AND TAKE APPROPRIATE PRECAUTIONARY MEASURES TO PREVENT ANY DAMAGE TO THE EXISTING STRUCTURES, SIDEWALKS, UTILITIES, COMMUNICATIONS, ETC. DURING THE PROJECT. THE CONTRACTOR SHALL CORRECT ALL DAMAGE CAUSED BY OR DURING THE PROJECT. CONTRACTOR SHALL PROVIDE NOT LESS THAN (2) AND NOT MORE THAN (10) WORKING DAYS ADVANCE WRITTEN, ELECTRONIC, OR TELEPHONIC NOTICE OF THE COMMENCEMENT, EXTENT, LOCATION AND DURATION OF THE EXCAVATION WORK TO LOCAL OR

PROVIDE FOR ALL PERMITTING AND INSPECTIONS. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES APPLICABLE THE WORK IN THIS DIVISION.

- STATE ONE—CALL SYSTEMS AND ANY NONMEMBERS OPERATOR(S) OF ANY UNDERGROUND UTILITY LINES OR UNDERGROUND FACILITIES IN AND NEAR THE EXCAVATION AREA, SO THAT OPERATOR(S) AND ANY NON—MEMBER OPERATOR(S) MAY LOCATE AND MARK THE LOCATION OF UNDERGROUND UTILITY LINES AND UNDERGROUND FACILITIES IN THE EXCAVATION AREA.
- 8. PROVIDE FOR AND INSTALL TEMPORARY LIGHTING AND POWER. COORDINATE WITH OWNER OR UTILITY COMPANY FOR CONNECTIONS. ALL TEMPORARY LIGHTING AND POWER SHALL CONFORM TO OSHA STANDARDS AND ALL CODE REQUIREMENTS.

 9. WORKERS POSSESSING THE SKILLS AND EXPERIENCE OBTAINED IN PERFORMING WORK OF SIMILAR SCOPE AND COMPLEXITY SHALL PERFORM THE
- WORK OF THIS DIVISION.

 10. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. VERIFY CONDITIONS, DIMENSIONS, INDICATED EQUIPMENT SIZES, AND MANUFACTURER'S DATA AND INFORMATION AS
- NECESSARY TO INSTALL THE WORK OF THIS DIVISION. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK.

 11. DRAWINGS INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF CONDUITS, NUMBER AND SIZE OF CONDUCTORS, AND DIAGRAMMATIC ROUTING OF CONDUIT. INSTALL CONDUITS WITH MINIMUM NUMBER OF BENDS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR, AND COMPLY WITH APPLICABLE CODE REQUIREMENTS.
- 12. OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEMENTS PRIOR TO START OF CONSTRUCTION. LOCATIONS INDICATED ON THE DRAWINGS MAY BE DISTORTED FOR CLARITY. WHERE INSTALLED AT MILLWORK, OUTLETS SHALL BE LOCATED IN KNEE SPACE OR ABOVE COUNTERTOP.
- 13. COORDINATE ELECTRICAL WORK WITH ALL OTHER WORK.
- 14. THE SCOPE OF THE ELECTRICAL WORK INCLUDES FURNISHING, INSTALLING TESTING AND WARRANTY OF ALL ELECTRICAL WORK AND COMPLETE ELECTRICAL SYSTEMS SHOWN ON THE ELECTRICAL DRAWINGS AND SPECIFIED HEREIN.
- 15. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL SYSTEMS TO PROVIDE A COMPLETE PACKAGE AS INDICATED BY THE CONTRACT DOCUMENTS. THE DOCUMENTS ARE INTENDED TO PROVIDE AN OUTLINE FOR THE REQUIRED INSTALLATIONS. THE CONTRACTOR SHALL ULTIMATELY PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT THE CONCLUSION OF THE PROJECT.
- 16. DETAILS ARE PROVIDED AS THEY RELATE TO THE INSTALLATION. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS COMPONENTS, PARTS, MATERIALS, FASTENERS, SPLICES, AND ANY OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- 17. ELECTRICAL CONNECTIONS INDICATED ON DRAWINGS SHALL INCLUDE WIRING, INSTALLATION, CONNECTION AND ADJUSTMENT. REQUIRED ELECTRICAL CONNECTIONS SHALL BE PERFORMED FOR SUCH EQUIPMENT AND APPLIANCES. WORK SHALL INCLUDE FURNISHING AND INSTALLING SUITABLE OUTLETS, DISCONNECTING DEVICES, STARTERS, PUSH—BUTTON STATIONS, SELECTOR SWITCHES, CONDUIT, JUNCTION BOXES, AND WIRING NECESSARY FOR A COMPLETE ELECTRICAL INSTALLATION.
- 8. PROTECT MATERIALS AND EQUIPMENT FROM DAMAGE AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING PROGRESS OF THE WORK.

 DAMAGED MATERIALS AND/OR EQUIPMENT SHALL BE REPLACED. REMOVE RUBBISH, DEBRIS AND WASTE MATERIALS AND LEGALLY DISPOSE OF OFF
 THE PROJECT SITE.
- 19. REMOVE GREASE AND OIL SPOTS WITH SOLVENT. SUCH SURFACES SHALL BE WIPED AND CORNERS AND CRACKS SCRAPED OUT. EXPOSED ROUGH
 METAL SHALL BE SMOOTH, FREE OF SHARP EDGES, CAREFULLY STEEL BRUSHED TO REMOVE RUST AND OTHER SPOTS, AND LEFT IN PROPER
 CONDITION TO RECEIVE FINISH PAINTING
- 20. ADVISE THE GENERAL CONTRACTOR OR ARCHITECT BEFORE STARTING THE WORK OF THIS DIVISION.
- 21. EXPOSED CONDUITS SHALL BE PAINTED TO MATCH THE SURFACES ADJACENT TO INSTALLATION. REFER TO PAINTING AND COATING SECTION OF
- 22. VERIFY ALL DIMENSIONS AND CLEARANCES WITH ARCHITECT AND OWNER.
- 23. SEAL ALL WALL PENETRATIONS WITH AN APPROVED CAULK COMPOUND EQUAL TO 3M FIRE BARRIER CAULK.
- 24. COORDINATE PHASING OF WORK WITH ARCHITECTURAL DRAWINGS AND OTHER TRADES / DISCIPLINES FOR ELECTRICAL INSTALLATIONS.
 25. NOTIFY THE ENGINEER IMMEDIATELY OF ANY PLAN DISCREPANCIES PRIOR TO PROCEEDING WITH ROUGH—IN OR TRIM OUT.

- BASIC ELECTRICAL MATERIALS, BOXES, CONDUIT, WIRING, AND GROUNDING
- BOXES INSTALLED IN CONCEALED WORK SHALL BE GALVANIZED STEEL, PRESSED, OR WELDED TYPE, WITH KNOCKOUTS.

 BOXES SHALL BE 4-INCH OCTAGON, 4-INCH SQUARE, 2-1/8 INCHES DEEP OR LARGER, DEPENDING UPON NUMBER OF CONDUCTORS OR CONDUITS THEREIN, UNLESS NOTED OTHERWISE. PLASTER OR TILE RINGS SHALL BE FURNISHED FOR SUITABLE MOUNTING OF LIGHT FIXTURE. PROVIDE SUITABLE
- COVERS FOR ALL BOXES.

 3. JUNCTION AND PULL BOXES, IN ADDITION TO THOSE INDICATED, SHALL ONLY BE USED IN COMPLIANCE WITH CODES, RECOGNIZED STANDARDS, AND CONTRACT DOCUMENTS. PROVIDE NEMA 3R WHERE INSTALLED OUTDOORS OR SUBJECT TO MOISTURE. PROVIDE POLYMER CONCRETE PULL BOXES AS NOTED WHERE INSTALLED AT GRADE LEVEL. PROVIDE SUITABLE COVERS FOR ALL BOXES.
- ALL CONDUIT IN SLAB AND UNDERGROUND TO BE PVC SCH. 40.
 ALL INTERIOR CONDUITS CONCEALED IN WALLS, ABOVE CEILINGS, OR IN EXPOSED STRUCTURE SHALL BE EMT WITH COMPRESSION FITTINGS FOR CONDUITS 1" AND SMALLER, CONDUITS 1-1/4" AND ABOVE SHALL HAVE STEEL SET-SCREW FITTINGS. METAL-CLAD (MC) CABLE MAY ONLY BE USED FOR FLEX CONNECTIONS TO LIGHT FIXTURES WHERE INSTALLED ABOVE LAY-IN ACOUSTICAL CEILINGS OR WHERE INSTALLED CONCEALED WITHIN BUILDING PURLING AT ROOF.
- 6. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID TO 10 FEET ABOVE FINISHED FLOOR WHEN INSTALLED IN AREAS SUSCEPTIBLE TO DAMAGE.

 7. ALL CONDUITS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. DO NOT INSTALL CONDUITS AT "ANGLED" /
- "STRAIGHT-RUNS" BETWEEN BOXES.

 8. FEEDER CONDUITS SHALL BE PVC BELOW GRADE, GRC ELBOWS AND RISERS UP TO PANELS FROM BELOW GRADE, OR EMT WHERE INSTALLED OVERHEAD AND COMPLETELY INDOORS, UNLESS NOTED OTHERWISE.
- 9. ALL WIRING SHALL BE COPPER.

 10. ALL WIRING SHALL BE #12 AWG MINIMUM, THHN/THWN, UNLESS NOTED OTHERWISE.
- 11. ALL WIRING SHALL BE CONDUCTOR TYPE THHN OR THWN INSULATED WITH POLYVINYL CHLORIDE AND COVERED WITH A PROTECTIVE SHEATH OF NYLON, RATED AT 600 VOLTS. WIRES SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) FOR INSTALLATION IN ACCORDANCE WITH ARTICLE 310 OF THE NATIONAL ELECTRICAL CODE (NEC). CONDUCTORS MAY BE SOLID OR STRANDED COPPER FOR 12 AWG AND SMALLER CONDUCTORS, AND STRANDED COPPER FOR 10 AWG AND LARGER CONDUCTORS. CONDUCTORS SHALL BE INSULATED WITH PVC AND SHEATHED WITH NYLON.
- 12. GROUNDING SHALL BE INSTALLED PER NEC SECTION 250. 13. METALLIC OBJECTS ON THE PROJECT SITE THAT ENCLOSE ELECTRICAL CONDUCTORS, OR THAT ARE LIKELY TO BE ENERGIZED BY ELECTRICAL
- CURRENTS, SHALL BE EFFECTIVELY GROUNDED.

 14. METAL EQUIPMENT PARTS, SUCH AS ENCLOSURES, RACEWAYS, AND EQUIPMENT GROUNDING CONDUCTORS, AND EARTH GROUNDING ELECTRODES SHALL
- BE SOLIDLY JOINED TOGETHER INTO A CONTINUOUS ELECTRICALLY CONDUCTIVE SYSTEM.
- 15. METALLIC SYSTEMS SHALL BE EFFECTIVELY BONDED TO THE MAIN GROUNDING ELECTRODE SYSTEM.
 16. ELECTRICAL CONTINUITY TO GROUND METAL RACEWAYS AND ENCLOSURES, ISOLATED FROM EQUIPMENT GROUND BY INSTALLATION OF NON-METALLIC CONDUIT OR FITTINGS, SHALL BE PROVIDED BY A GREEN INSULATED GROUNDING CONDUCTOR OF REQUIRED SIZE WITHIN EACH RACEWAY CONNECTED
- GREEN INSULATED GROUNDING CONDUCTOR OF REQUIRED SIZE.

 17. COLD WATER, OR OTHER UTILITY PIPING SYSTEMS, SHALL NOT BE UTILIZED AS GROUNDING ELECTRODES DUE TO THE INSTALLATION OF INSULATING COUPLINGS AND NON-METALLIC PIPE IN SUCH INSTALLATIONS.
- 18. NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, PANELS, EQUIPMENT CABINETS, AND METAL FRAMES OF BUILDINGS SHALL BE
- PERMANENTLY AND EFFECTIVELY GROUNDED. PROVIDE A NEC SIZED GROUNDING CONDUCTOR IN EVERY RACEWAY.

 19. NEUTRAL OF SERVICE CONDUCTORS SHALL BE GROUNDED AS FOLLOWS: NEUTRAL SHALL BE GROUNDED AT THE SERVICE PANELBOARD, OR MAIN SWITCH, EQUIPMENT AND CONDUIT GROUNDING CONDUCTORS SHALL BE BONDED TO THAT GROUNDING POINT, FEEDER NEUTRALS SHALL BE BONDED

TO ISOLATED METALLIC RACEWAYS, OR ENCLOSURES AT EACH END. EACH FLEXIBLE CONDUIT OVER 6 FEET IN LENGTH SHALL BE PROVIDED WITH A

- AT SERVICE ENTRANCE POINT ONLY, NEUTRALS OF SEPARATELY DERIVED SYSTEMS SHALL BE BONDED AT THE SOURCE ONLY.

 20. WITHIN EVERY BUILDING, THE MAIN PANELBOARD, SHALL BE BONDED TO THE COLD WATER LINE. METALLIC PIPING SYSTEMS SUCH AS GAS, FIRE SPRINKLER, OR OTHER SYSTEMS SHALL BE BONDED TO THE COLD WATER LINE.
- 21. GROUNDING ELECTRODES SHALL BE COPPER—CLAD STEEL GROUND RODS, MINIMUM 3/4 INCH DIAMETER BY 10 FEET LONG. INSTALL ADDITIONAL ELECTRODES WHERE GROUND REMAINS HIGHER THAN 25 OHMS. INSTALL GROUNDING ELECTRODES AS NOTED ON DRAWINGS.

 22. GROUNDING CONDUCTORS SHALL BE COPPER, #12 MINIMUM WITH GREEN INSULATION, UNLESS NOTED OTHERWISE.
- 23. GROUND TAILS SHALL BE COPPER, #12 MINIMUM WITH GREEN INSULATION, INSTALLED IN ALL METALLIC JUNCTION BOXES WHERE DEVICES ARE BEING INSTALLED. BRANCH CIRCUIT GROUND, JUNCTION BOX, AND DEVICES SHALL BE BONDED AT EACH JUNCTION BOX.

WIRING DEVICES

- S NES SHALL COMDLY WITH NEMA WO 1 NEMA WO 6 AND III 408
- 1. RECEPTACLES SHALL COMPLY WITH NEMA WD 1, NEMA WD 6, AND UL 498.
 2. SWITCHES SHALL COMPLY WITH NEMA WD 1 AND UL 20.
- DUPLEX RECEPTACLES SHALL BE HEAVY—DUTY SPECIFICATION GRADE, GROUNDING TYPE. TERMINAL SCREWS SHALL BE BACK AND SIDE WIRED WITH INTERNAL SCREW PRESSURE PLATES. MOUNTING STRAP SHALL FEATURE HEAVY—DUTY BRASS CONSTRUCTION. RECEPTACLE BACK BODY SHALL BE PVC. RECEPTACLE FACE SHALL BE IMPACT RESISTANT NYLON. RECEPTACLES SHALL HAVE TRIPLE WIPE BRASS POWER CONTACTS.
- PROVIDE SPECIFICATION GRADE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES IN ACCORDANCE WITH UL STANDARDS. GFCI RECEPTACLES SHALL HAVE A TRIP INDICATION LIGHT. RECEPTACLE TERMINAL SCREWS SHALL BE BACK AND SIDE WIRE WITH INTERNAL SCREW PRESSURE PLATES. TEST AND RESET BUTTONS SHALL MATCH DEVICE BODY IN COLOR. GFCI RECEPTACLES SHALL BE MANUFACTURED IN STANDARD CONFIGURATION FOR INSTALLATION WITH STAINLESS STEEL SMOOTH PLATES. EXTERIOR MOUNTED RECEPTACLES SHALL BE MOUNTED INSIDE WEATHERPROOF FNCI OSURE.
- 5. FOR EQUIPMENT RECEPTACLES, PROVIDE 2—WIRE OR 3—WIRE, GROUNDING TYPE, RATED 30 OR 50 AMPS AT 125/250 VOLTS, NEMA RATING AS NOTED ON DRAWINGS OR AS REQUIRED FOR EQUIPMENT, WITH 2—GANG STAINLESS STEEL PLATES.
- PROVIDE LOCAL SWITCHES, HIGH STRENGTH THERMOPLASTIC TOGGLE, SPECIFICATION GRADE, RATED 20 AMPS AT 120-277 VOLTS AC ONLY, WITH PLASTER EARS, EXTERNAL SCREW PRESSURE PLATE BACK AND SIDE WIRED, AND STANDARD SIZE COMPOSITION CUPS WHICH FULLY ENCLOSE MECHANISM. SWITCHES SHALL BE APPROVED FOR INSTALLATION AT CURRENTS UP TO FULL RATING ON RESISTIVE, INDUCTIVE, TUNGSTEN FILAMENT LAMP AND FLUORESCENT LAMP LOADS, AND FOR UP TO 80 PERCENT OF RATING FOR MOTOR LOADS. SWITCHES SHALL HAVE OVERSIZED SILVER ALLOY CONTACTS FOR LONG LIFE AND BETTER HEAT DISSIPATION. PROVIDE SWITCHES AS SINGLE POLE, DOUBLE POLE, 3-WAY, 4-WAY, NON-LOCK
- 7. WHERE NOTED, PROVIDE OCCUPANCY SENSOR SWITCHES (CEILING OR WALL MOUNT). SWITCHES SHALL BE DUAL TECHNOLOGY WITH INPUT VOLTAGE
- AND LOAD CHARACTERISTICS SUITABLE FOR LOADS BEING SERVED.

 8. PROVIDE STAINLESS STEEL FACEPLATE ON ALL DEVICES.
- . WHERE DEVICES ARE TO BE INSTALLED AT MILLWORK OR ABOVE COUNTERS, COORDINATE WITH ARCHITECT FOR DEVICE HEIGHTS AND LOCATIONS PRIOR TO ROUGH—IN. INSTALL OUTLETS TO BE IN KNEE SPACE AREA OR IN AREA THAT WILL BE ACCESSIBLE AFTER MILLWORK IS COMPLETED.

PANELBOARDS AND SAFETY SWITCHES

- 1. PROVIDE ENGRAVED NAMEPLATE LABEL FOR ALL PANELBOARDS, SWITCHES (WHERE NOTED), DISCONNECTS, STARTERS, AND ANY EQUIPMENT NOTED OR REQUIRING NAMEPLATE IDENTIFICATION.
- 2. ALL ELECTRICAL PANELS SHALL BE COPPER BUSSING, PANELBOARDS AND CONSTRUCTED TO NATIONAL ELECTRIC CODE, ARTICLE 408, UL 67, PANELBOARDS; UL 50, CABINETS AND BOXES; UL 943, GFCI; UL 489, MOLDED CASE CIRCUIT BREAKERS; NEMA PB1; AND FEDERAL SPECIFICATIONS W-P-115C AND WC-375B. LOAD CENTERS NOT ALLOWED UNLESS NOTED OTHERWISE.
- 3. PANELBOARDS SHALL BE WALL-MOUNTED, ENCLOSED SAFETY TYPE WITH 120/240 VOLT, 3-WIRE SOLID NEUTRAL MAINS AS INDICATED ON DRAWINGS OR SPECIFIED. FIRST PANELBOARD OF EACH BUILDING SHALL BE PROVIDED WITH MAIN OR SUB-FEEDER CIRCUIT BREAKERS WHERE INDICATED. PROVIDE NEMA 3R PANEL ENCLOSURES WHERE INSTALLED OUTDOORS OR WHERE SUBJECT TO MOISTURE OR WHERE NOTED ON DRAWINGS.
- 4. SURGE SUPPRESSORS SHALL BE INSTALLED WHERE INDICATED ON DRAWINGS, PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSORS AS SEPARATELY INSTALLED OF PANELBOARDS. PANELBOARDS SHALL BE COMPLETE WITH FULLY RATED COPPER NEUTRAL BUS, GROUND BUS AND ISOLATED GROUND BUS. SURGE SUPPRESSORS SHALL BE AS FOLLOWS: SURGE CAPACITY: SERVICE ENTRANCE SPDS SHALL BE ANSI/UL LISTED TYPE 1 SPD WITH A 160 KA SURGE RATING PER MODE, WITH FIELD REPLACEABLE SURGE MODULES. DISTRIBUTION OR BRANCH PANELS SHALL BE UL LISTED TYPE 1 SPD WITH A 80 KA SURGE RATING PER MODE. SURGE SUPPRESSION UNITS SHALL MEET UL 1449 3RD EDITION SUPPRESSED VOLTAGE RATING. MOVS SHALL BE THERMALLY PROTECTED FOR LOW CURRENT FAULTS AND SHALL BE FUSED WITH SURGE—RATED FUSES. THE SURGE—RATED SURGE CURRENT PASSES AND CLEARS THE CIRCUIT SAFELY IF THE SURGE CAPACITY IS EXCEEDED. ENHANCED DIAGNOSTICS SHALL CONTINUOUSLY MONITOR THE UNIT'S STATUS AND SHALL INCLUDE LEDS TO SIGNAL A REDUCTION IN SURGE CAPACITY OR THE LOSS OF A SUPPRESSION CIRCUIT. AN AUDIBLE ALARM, WITH TEST AND SILENCE FEATURES, SHALL BE FURNISHED IN DIAGNOSTIC PACKAGE.
- 5. SINGLE POLE BRANCHES SHALL BE MOLDED CASE, THERMAL MAGNETIC CIRCUIT BREAKERS WITH INVERSE TIME DELAY, TRIP FREE, QUICK—MAKE, QUICK—BREAK MECHANISM AND SILVER ALLOY CONTACTS. CIRCUIT BREAKERS SHALL BE FULLY RATED, WITH AMPERE RATING MARKED ON HANDLE AND SHALL INDICATE ON/OFF AND TRIPPED POSITIONS. GROUND FAULT INTERRUPTERS SHALL BE INCORPORATED INTO CIRCUIT BREAKERS WHERE INDICATED. THEY SHALL BE LISTED BY UL, OR OTHER NRTL AS GROUND FAULT DEVICES. PROVIDE APPROPRIATE LUG KIT OF SUFFICIENT SIZE TO ACCOMMODATE THE FEEDERS.
- 6. TWO-POLE BRANCHES SHALL BE ENCLOSED, AND SHALL BE THERMAL MAGNETIC CIRCUIT BREAKERS WITH INVERSE TIME DELAY, TAMPER-PROOF, AMBIENT COMPENSATED, SINGLE HANDLE, INTERNAL COMMON TRIP, AND QUICK-MAKE, QUICK-BREAK MECHANISM WITH SILVER ALLOY CONTACTS. CIRCUIT BREAKERS SHALL BE FULLY RATED OR AS OTHERWISE INDICATED ON THE DRAWINGS.
- 7. MAIN AND SUBFEEDER CIRCUIT BREAKERS SHALL BE ENCLOSED, THERMAL MAGNETIC TYPE WITH INVERSE TIME DELAY, SINGLE HANDLE COMMON TRIP, QUICK—MAKE, QUICK—BREAK MECHANISM, CORROSION—RESISTANT BEARINGS AND SILVER ALLOY CONTACTS. AMPERE FRAME SIZE AND TRIP RATING SHALL BE AS INDICATED ON DRAWINGS. VOLTAGE RATING SHALL BE AS INDICATED ON DRAWINGS. BRANCH MOUNTED MAINS ARE NOT ACCEPTABLE.
- SHALL BE AS INDICATED ON DRAWINGS. VOLTAGE RATING SHALL BE AS INDICATED ON DRAWINGS. BRANCH MOUNTED MAINS ARE NOT ACCEPTABLE.

 CIRCUIT BREAKERS SHALL BE FULLY RATED AND OF ONE—PIECE, BOLT—ON TYPE AND SHALL MEET SHORT—CIRCUIT INTERRUPTING CAPACITY

 REQUIREMENTS INDICATED ON DRAWINGS.
- 9. INTERNAL PHASE AND GROUND BUSS SHALL BE COPPER.
- O. PROVIDE A NEATLY TYPEWRITTEN PANELBOARD SCHEDULE WITH NUMBER OR NAME OF ROOM OR AREA, OR LOAD SERVED BY EACH PANELBOARD CIRCUIT. SCHEDULE SHALL ALSO INDICATE PANEL DESIGNATION, VOLTAGE AND PHASE, BUILDING AND DISTRIBUTION PANEL OR SWITCHBOARD FROM WHICH IT IS FED. SCHEDULE SHALL BE INSTALLED IN A FRAME UNDER TRANSPARENT PLASTIC ON INSIDE OF EACH PANELBOARD DOOR.
- 1. ALL ELECTRICAL DISCONNECTS SHALL BE HEAVY DUTY AND RATED FOR VOLTAGE AND AMPACITY OF EQUIPMENT BEING SERVED, UNLESS NOTED OTHERWISE. PROVIDE FUSES BASED ON EQUIPMENT RATINGS WHERE NOTED. PROVIDE NEMA 3R ENCLOSURES WHERE INSTALLED OUTDOORS OR WHERE SUBJECT TO MOISTURE OR WHERE NOTED ON DRAWINGS.
- 12. INSTALL ALL ELECTRICAL EQUIPMENT WITH CODE REQUIRED CLEARANCES.

LIGHTING

- 1. LIGHT FIXTURES MODEL NUMBERS WERE DETERMINED AT THE TIME THIS SPECIFICATION WAS WRITTEN; MODEL NUMBERS MAY NEED TO BE MODIFIED, OR MAY REQUIRE THE ADDITION OR DELETION OF OPTIONS TO FULLY MEET SPECIFICATION REQUIREMENTS.
- 2. DESIGN OF LIGHTING FIXTURES, ACCESSORIES, SUPPORTS, AND METHOD OF FIXTURE INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF CEILING TYPE WHICH FIXTURE IS INSTALLED.

 3. DROWING SUSPENSION DOINTS AT NO MORE THAN 2 EFFT FROM FIXTURE FINDS SPACING RETWEEN SUPPORTS SHALL NOT EXCEED 8 EFFT.
- 3. PROVIDE SUSPENSION POINTS AT NO MORE THAN 2 FEET FROM FIXTURE ENDS. SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

 4. PROVIDE ALL NECESSARY COMPONENTS TO INSTALL FIXTURES IN CEILING TYPES BEING INSTALLED. SURFACE MOUNT FIXTURES SHALL BE ATTACHED
- PROVIDE ALL NECESSARY COMPONENTS TO INSTALL FIXTURES IN CEILING TYPES BEING INSTALLED. SURFACE MOUNT FIXTURES SHALL BE ATTACHED TO STRUCTURE. TOGGLE BOLTS ARE NOT PERMITTED. PROVIDE BACKING WHERE REQUIRED.
 COMPONENTS AND FIXTURES SHALL BE LISTED AND APPROVED FOR THE INTENDED APPLICATION BY UNDERWRITER'S LABORATORIES (UL), OR OTHER
- NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).

 6. LIGHTING FIXTURES SHALL BE THE TYPE INDICATED ON DRAWINGS AND AS SPECIFIED. FIXTURES OF SAME TYPE SHALL BE OF ONE MANUFACTURER.
- 7. FIXTURES SHALL BE OF THE TYPES AND MANUFACTURERS DESCRIBED IN THE LUMINAIRE SCHEDULE OF THE DRAWINGS, WITH LAMPS, WATTAGE AND VOLTAGE AS INDICATED OR APPROVED EQUAL. SUBMIT TO ENGINEER FOR ANY SUBSTITUTION APPROVALS PRIOR TO PURCHASE AND INSTALLATION.

 8. ALL FIXTURE SHALL BE HIGH EFFICIENCY, HAVE SUITABLE BALLASTS OR DRIVERS TO MATCH LAMP TYPES, AND BE RATED FOR VOLTAGE BEING
- 9. ALL LAMPS SHALL BE AS NOTED ON DRAWINGS. PROVIDE LAMPS FOR ALL FIXTURES AS NOTED.
- 10. WHERE EMERGENCY BATTERY PACKS ARE INSTALLED, PROVIDE CONSTANT HOT FOR EMERGENCY FIXTURES. UNLESS NOTED OTHERWISE, WHEN POWERING UNIT INVERTER POWER PACKS, USE THE SAME CIRCUIT THAT POWERS THE SWITCHED BALLAST TO POWER THE INVERTER.

 11. WHERE EMERGENCY BALLAST(S) ARE SPECIFIED WITHIN THE FIXTURE, PROVIDE CONSTANT HOT FOR THE BALLAST(S). NONEMERGENCY BALLASTS
- WITHIN THE SAME FIXTURE SHALL BE SWITCHED AS INDICATED, UNLESS NOTED OTHERWISE.

 12. CHECK AND ADJUST FIXTURES FOR REQUIRED ILLUMINATION. REPLACE DEFECTIVE LAMPS AND BALLASTS. TEST AND ADJUST LIGHTING CONTROL
- EQUIPMENT FOR PROPER OPERATION.
- COMMUNICATIONS

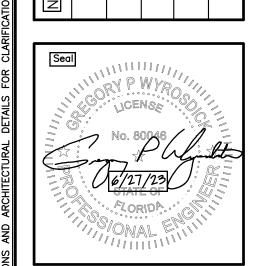
 1. COMMUNICATIONS DEVICES AND SYSTEMS SHALL BE ROUGH—IN ONLY, WITH 4" SQUARE DEEP BOX WITH APPROPRIATE EXTENSION RING. STUB (1)
- 3/4" MINIMUM CONDUIT FOR DATA/TEL DEVICES TO ABOVE CEILING UNLESS NOTED OTHERWISE.

PROVIDE AND INSTALL GROUNDING BUSHING WITH GROUND WIRE AS NOTED BACK TO SERVICE ENTRANCE GROUND.

- ALL COMMUNICATIONS CONDUITS SHALL BE TERMINATED WITH PLASTIC BUSHING ON ENDS OF CONDUITS.
 PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- 4. INSTALL CONDUITS BELOW GRADE AS NOTED ON PLANS FROM EDGE OF BUILDING TO THE TELECOM BACKBOARD. STUB UP AT BASE OF BACKBOARD, UNLESS NOTED OTHERWISE ON PROJECT DETAILS.
- Y WELCON ELECTRICAL CONSULTANTS, LICABLE. CONTRACTOR SHALL COORT 1te Revision

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O. Date



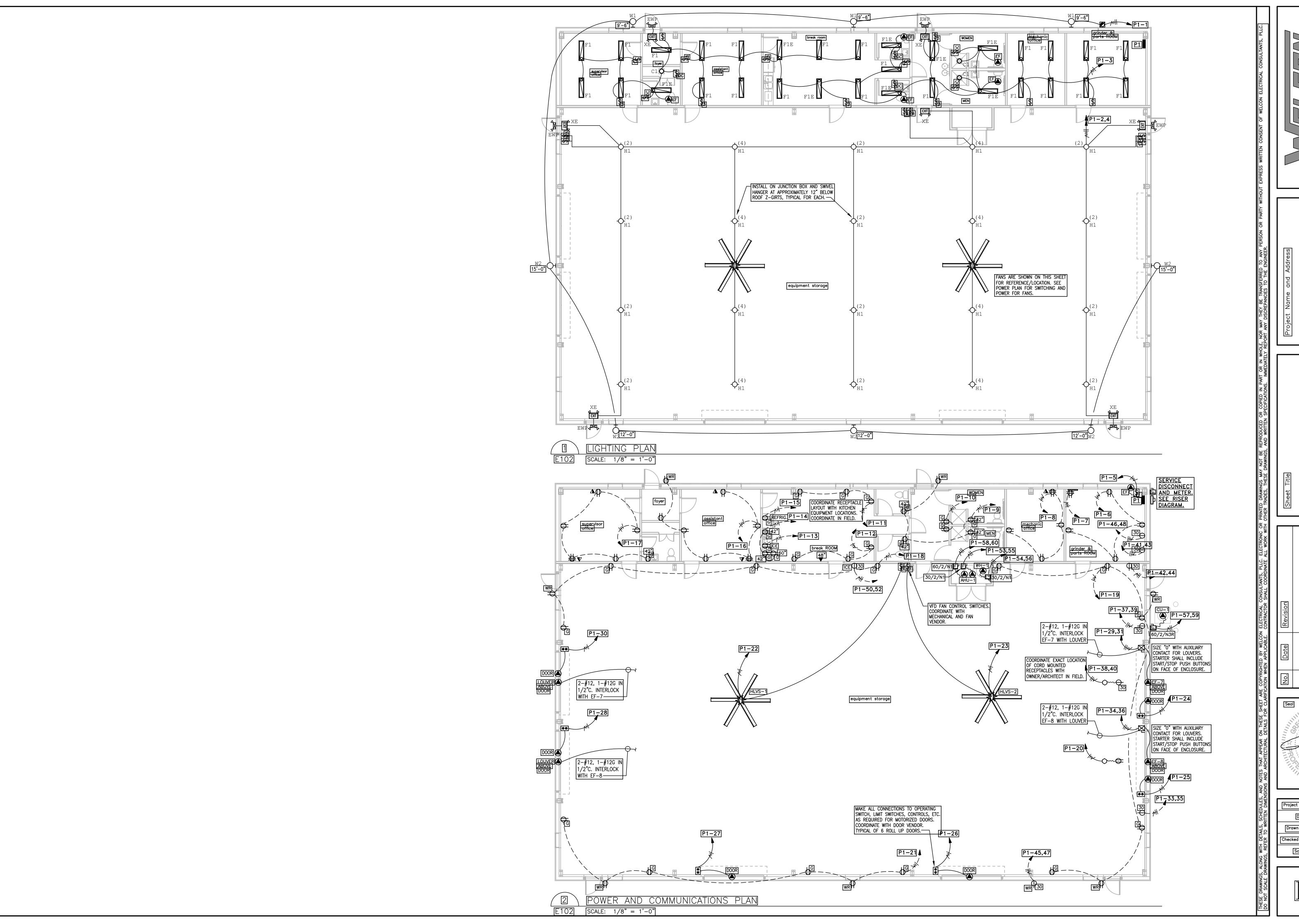
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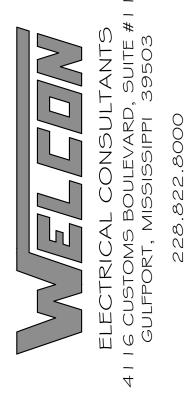
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Date	06/27/2023
Drawn By	WH
Checked By	GPW
Scale	AS SHOWN

Drawing No.

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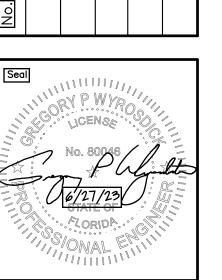




EAGLE SPRINGS GOLF
COURSE MAINT. BUILDING
WALTON COUNTY, FLORIDA

ELECTRICAL

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