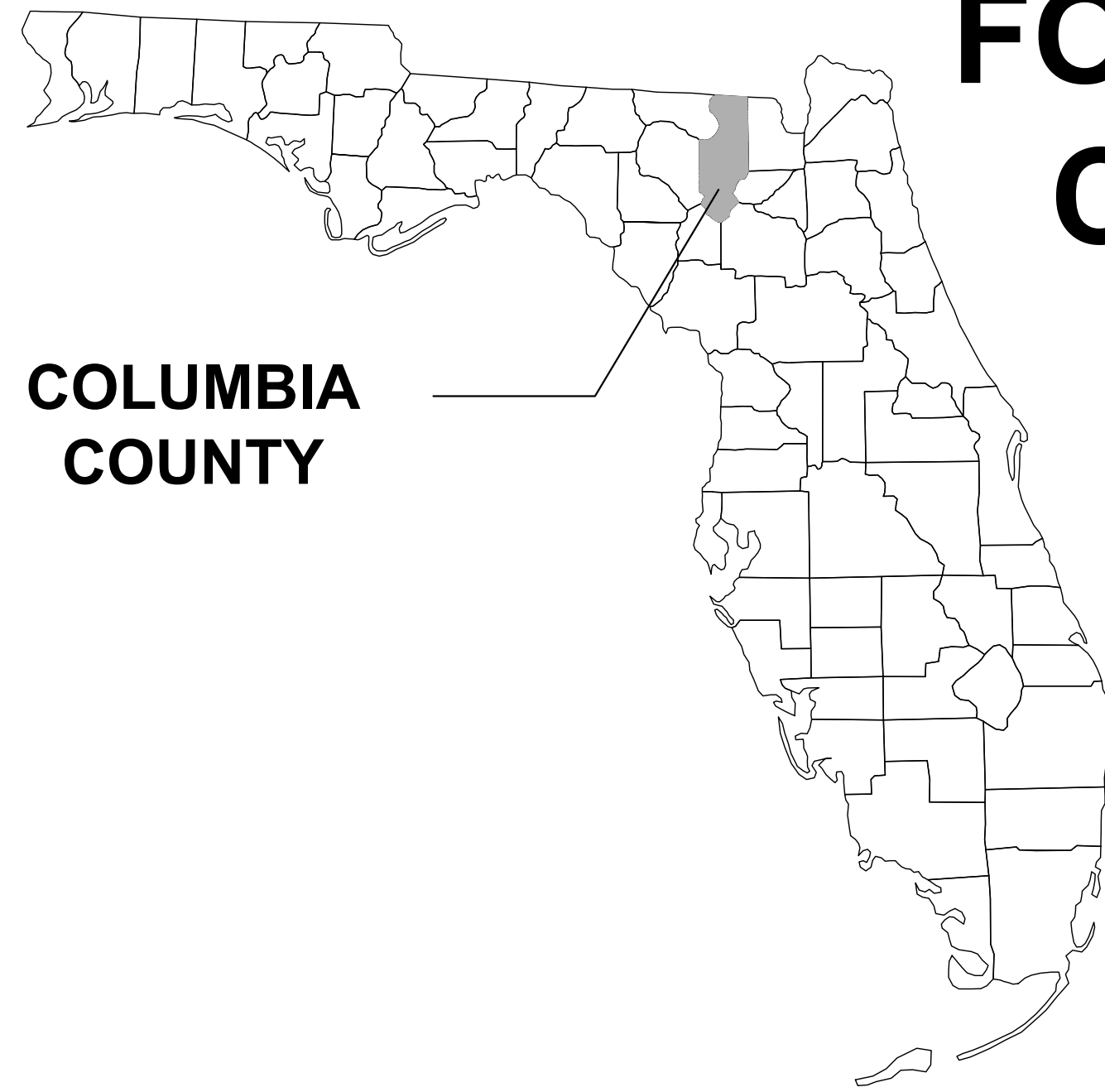


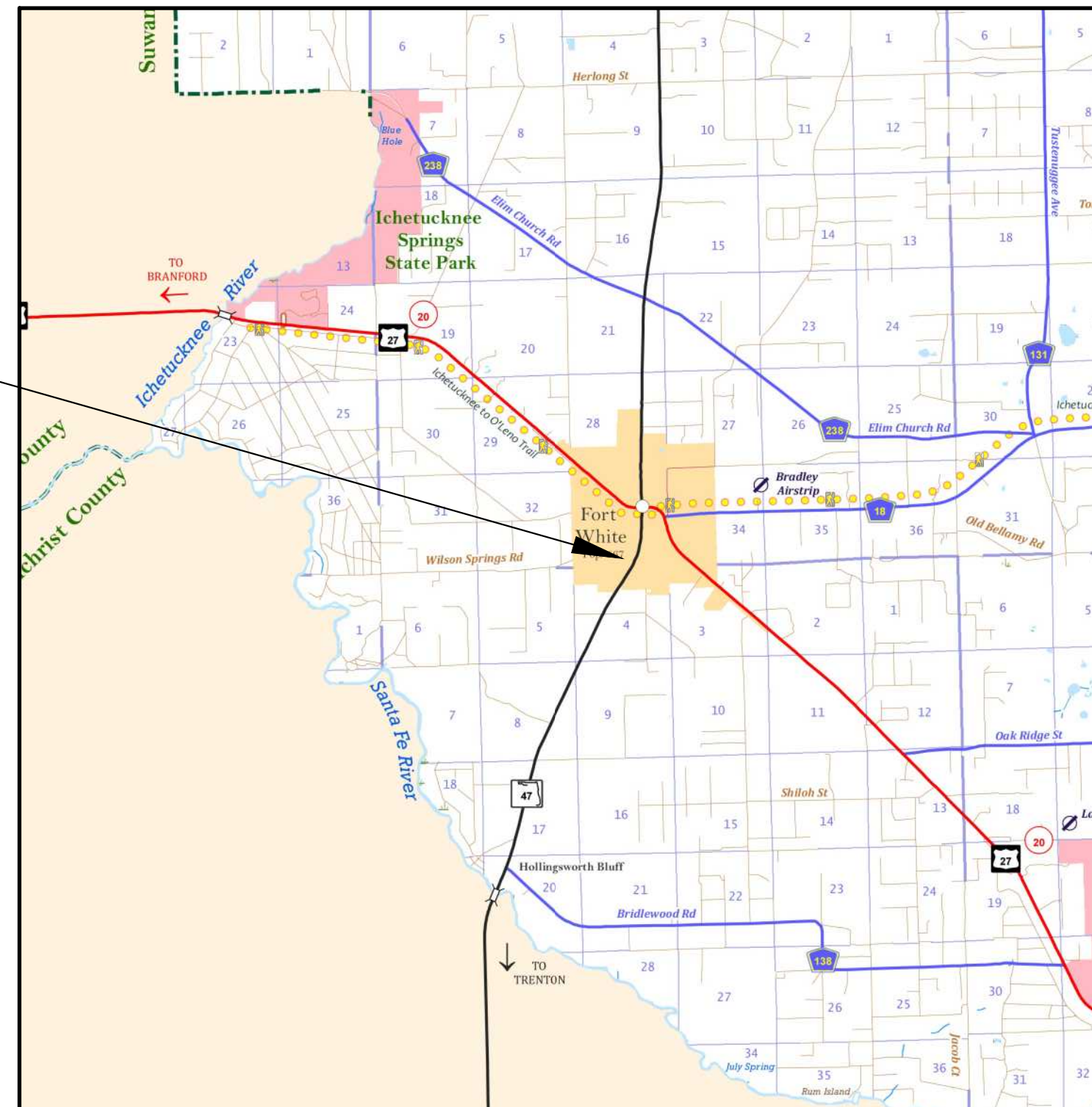


COLUMBIA
COUNTY

FORT WHITE PHASE 1 WASTEWATER SYSTEM CONTRACT B - WASTEWATER TREATMENT COLUMBIA COUNTY, FLORIDA

SHEET INDEX

PROJECT
LOCATION



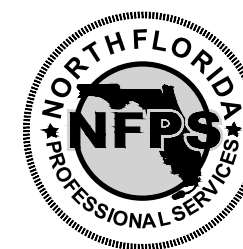
PLANS PREPARED FOR:

TOWN OF FORT WHITE
P.O. BOX 129
118 SW WILSON SPRINGS RD
FT WHITE, FL 32038
386-497-2321

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11/2025
ISSUED FOR CONSTRUCTION

REVISIONS	
DATE	DESCRIPTION



NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FL 32056
PH. 386-752-4675
LIC NO. LB8356

2551 BLAIRSTONE PINES DR.
TALLAHASSEE, FL 32301
WWW.NFPS.NET
CA# 29011

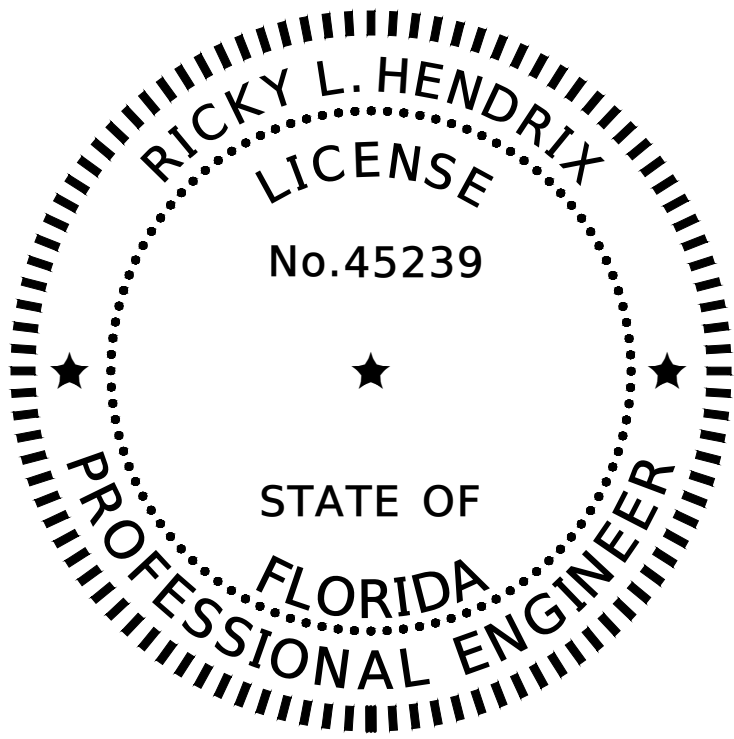
JOB NUMBER:
L220209FOR
EOR:
RICKY L. HENDRIX
P.E. NO.:
45239

COVER SHEET

SHEET
NO.

G1

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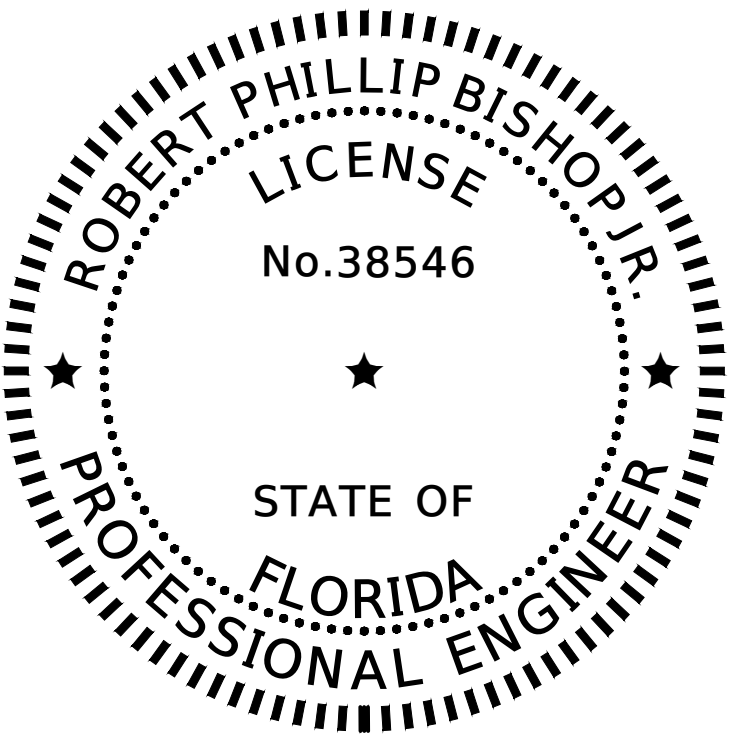
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LAKE CITY, FL 32056
CERTIFICATE OF AUTHORIZATION: 29011
RICKY L. HENDRIX, P.E. NO. 45239

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN
ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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WWTP SECTION & DETAILS	P7 - P9
SPRAYFIELD PIPING PLAN	P10
RCW PUMP STATION & SPRAYFIELD DETAILS	P11 - P12



Digitally signed by Robert P Bishop
DN: CN=Robert P Bishop,
dnQualifier=A01410D000001872413ECF1000636D7,
O=NORTH FLORIDA PROFESSIONAL SERVICES
INC., C=US
Date: 2025.11.13 17:00:50-05'00'

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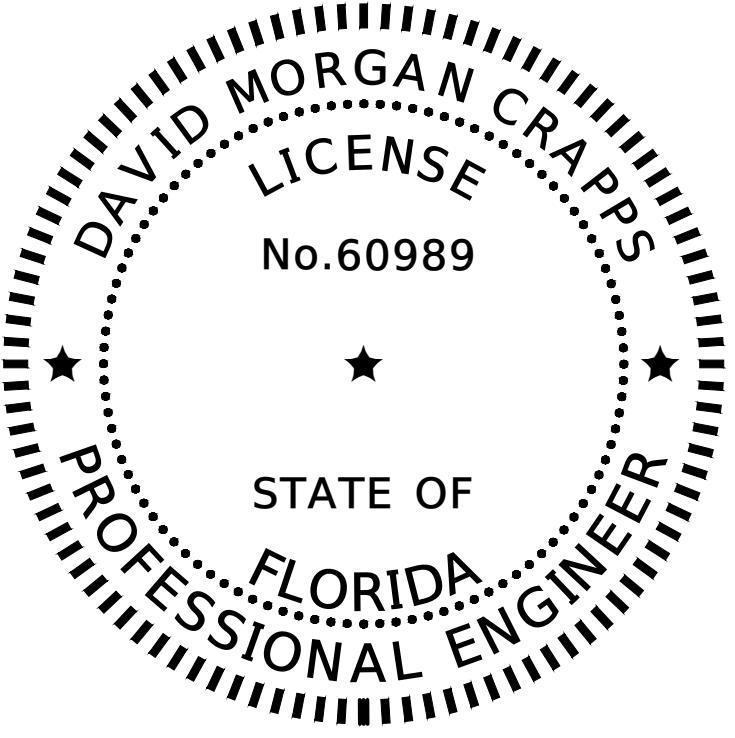
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CERTIFICATE OF AUTHORIZATION: 29011
ROBERT PHILLIP BISHOP JR., P.E. NO. 38546

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ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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CRAPPS, P.E. ON THE DATE ADJACENT TO THE SEAL.

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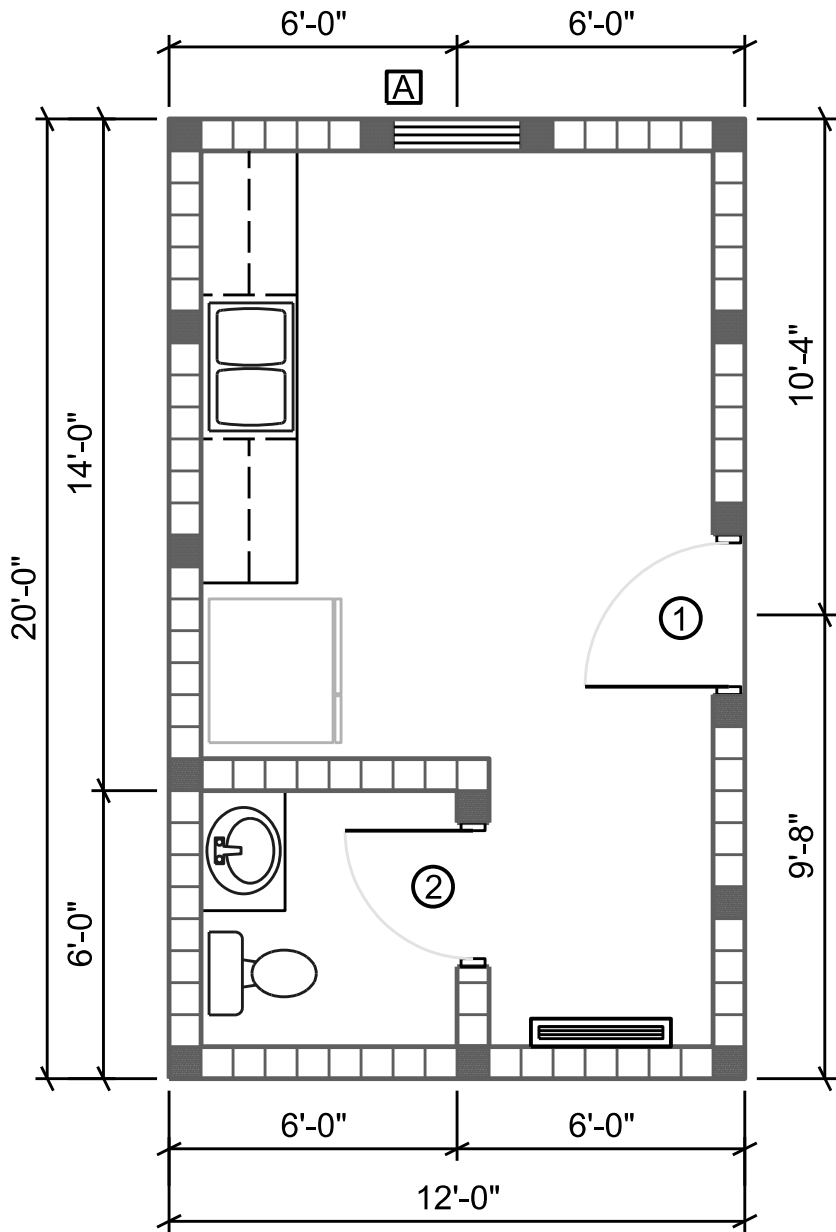
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P.O. BOX 3823
LAKE CITY, FL 32056
CERTIFICATE OF AUTHORIZATION: 29011
DAVID MORGAN CRAPPS, P.E. NO. 60989

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ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET INDEX

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REVISIONS			NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-752-4675 LIC NO. LB8356	2551 BLAIRSTONE PINES DR. TALLAHASSEE, FL 32301 WWW.NFPS.NET CA# 29011	JOB NUMBER: L220209FOR EOR: RICKY L. HENDRIX P.E. NO.: 45239	SIGNATURE SHEETS FT WHITE PHASE 1- WASTEWATER TREATMENT COLUMBIA COUNTY, FLORIDA	SHEET NO.
DATE	DESCRIPTION						G2



FLOOR PLAN

ELECTRICAL SYMBOLS	
TYPE	DESCRIPTION
	STANDARD DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER RECEPTACLE
	STANDARD DOUBLE DUPLEX RECEPTACLE
	DATA/COMMUNICATION RECEPT w/ CONDUIT INTO ATTIC
	SWITCH W/ MOTION SENSOR, ON/OFF PUSH BUTTON
	STANDARD SINGLE POLE SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	LED LIGHT FIXTURE
	LED LIGHT (RECESSED, CANLESS) 100 WATT MIN.
	EXHAUST FAN/LIGHT COMBINATION (EF-1)
	SPECIAL PURPOSE RECEPTACLE (240)
	METER BASE (400 AMP MINIMUM)
	SMOKE DETECTOR, INTERCONNECTED
	DISCONNECT (SIZE VARIES)
	LED FIXTURE (SEE NOTES)
	ELECTRICAL PANEL (100 AMP MAIN)
	EMERGENCY LIGHT
	EXIT LIGHT
	FIRE EXTINGUISHER - TYPE ABC, 10 LBS MINIMUM

NOTE: THIS ELECTRICAL PLAN IS INTENDED TO SHOW SCHEMATICALLY THE LAYOUT OF THE ELECTRICAL COMPONENTS. THE FINAL LOCATION AND SIZING OF THESE COMPONENTS SHALL BE THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES.

EXHAUST FAN

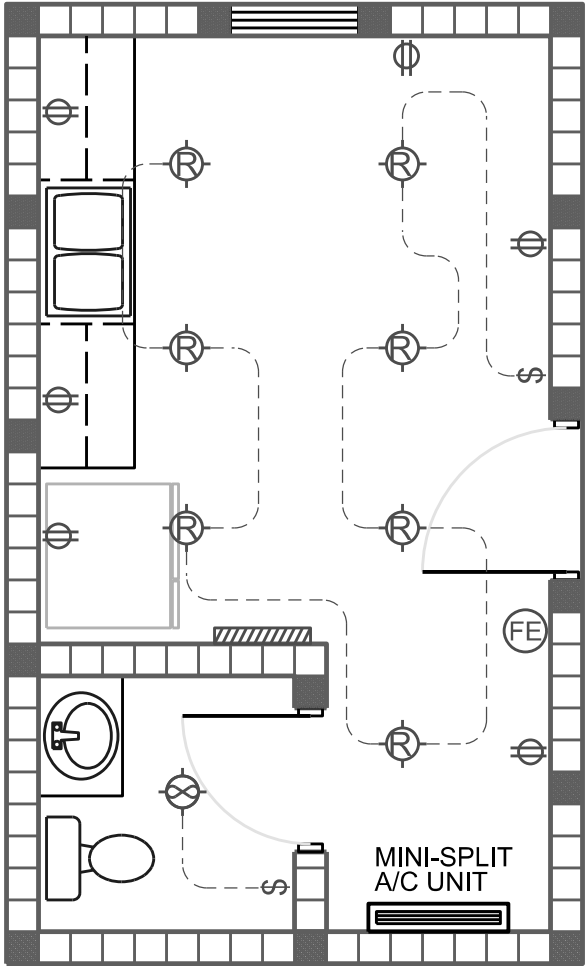
EF1 - 75 CFM FAN/LIGHT COMBO
LESS THAN 2.0 SONES
EXAMPLE: BROAN A80

HVAC MINI-SPLIT

20 SEER2, 12,000 BTU
1 TON DUCTLESS MINI-SPLIT
AIR CONDITIONER WITH
HEAT PUMP (115V)

ELECTRICAL NOTES

1. THIS TRADE SHALL COORDINATE FULLY WITH ALL OTHER TRADES ASSOCIATED WITH THIS PROJECT TO VERIFY THE LOCATION AND ELEVATION OF ALL EQUIPMENT, PIPES, CONDUITS, AND DUCTS TO PREVENT CONFLICTS DURING CONSTRUCTION. ANY RELOCATION OR REROUTING OF EQUIPMENT, PIPES, CONDUITS, OR DUCT RESULTED FROM A LACK OF COORDINATION BETWEEN TRADES SHALL BE AT THE CONTRACTORS EXPENSE.
2. EQUIPMENT ROUGH-INS ARE ACCURATE TO THE BEST OF THE DESIGNERS KNOWLEDGE, HOWEVER IN SOME INSTANCES THE OWNER OR SUPPLIER MAY SUBSTITUTE OR THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN ON THE PLANS. THE CONTRACTOR OR HIS TRADESMAN SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER OR SUPPLIER PRIOR TO BEGINNING CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY ON THE CONTRACTOR.
3. THE SUBMISSION OF A PROPOSAL BY THE CONTRACTOR OR A TRADESMAN SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR OR TRADESMAN HAS FAMILIARIZED HIMSELF WITH THE PLANS AND EXISTING SITE CONDITIONS. ANY SUBSEQUENT CLAIMS FOR AN INCREASE IN THE COST OF MATERIALS AND/OR LABOR RESULTING FROM DIFFICULTIES THAT COULD HAVE BEEN REASONABLE FORSEEN HAD A PROPER EXAMINATION BEEN MADE WILL BE DENIED.
4. THE CONTRACTOR AND HIS TRADES SHALL VISIT THE SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS TO ASSURE THAT THE WORK REPRESENTED IN THE PLANS AND SPECIFICATIONS AND EQUIPMENT PURCHASED WILL FIT INTO THE SPACE ALLOCATED AND CAN BE INSTALLED AS INDICATED.
5. THE CONTRACTOR SHALL OBTAIN AN PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO THE INSTALLATION OF THE WORK.



ELECTRICAL PLAN

6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL SYSTEM TO INCLUDE LABOR, MATERIALS (INCLUDING BULBS), EQUIPMENT AND TOOLS NECESSARY FOR A COMPLETELY OPERATIONAL SYSTEM, INCLUDING ANY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT. AT THE COMPLETION OF THE INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY TEST THE SYSTEM TO ENSURE IT IS OPERATING PROPERLY.
8. THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE INDUSTRY STANDARDS.
9. ALL ELECTRICAL WORK SHALL BE LOCATED SO AS TO AVOID CONFLICT WITH OTHER TRADES AND PROVIDE ADEQUATE CLEARANCES FOR THE ARCHITECTURAL DESIGN ELEMENTS AND PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A STATUTORY AFFIDAVIT AS PROVIDED BY THE OWNER. HE SHALL WARRANT AND GUARANTEE ALL HIS MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE.
11. DO NOT SCALE DIMENSIONS FROM ELECTRICAL PLAN. REFER TO FLOOR PLAN FOR BUILDING DIMENSIONS.
12. ALL WIRING SHALL BE COPPER.
13. PROVIDE TWO CONDUITS TO THE EXTERIOR OF THE BUILDING FOR COMMUNICATION AND FUTURE USE.

REVISIONS	
DATE	DESCRIPTION



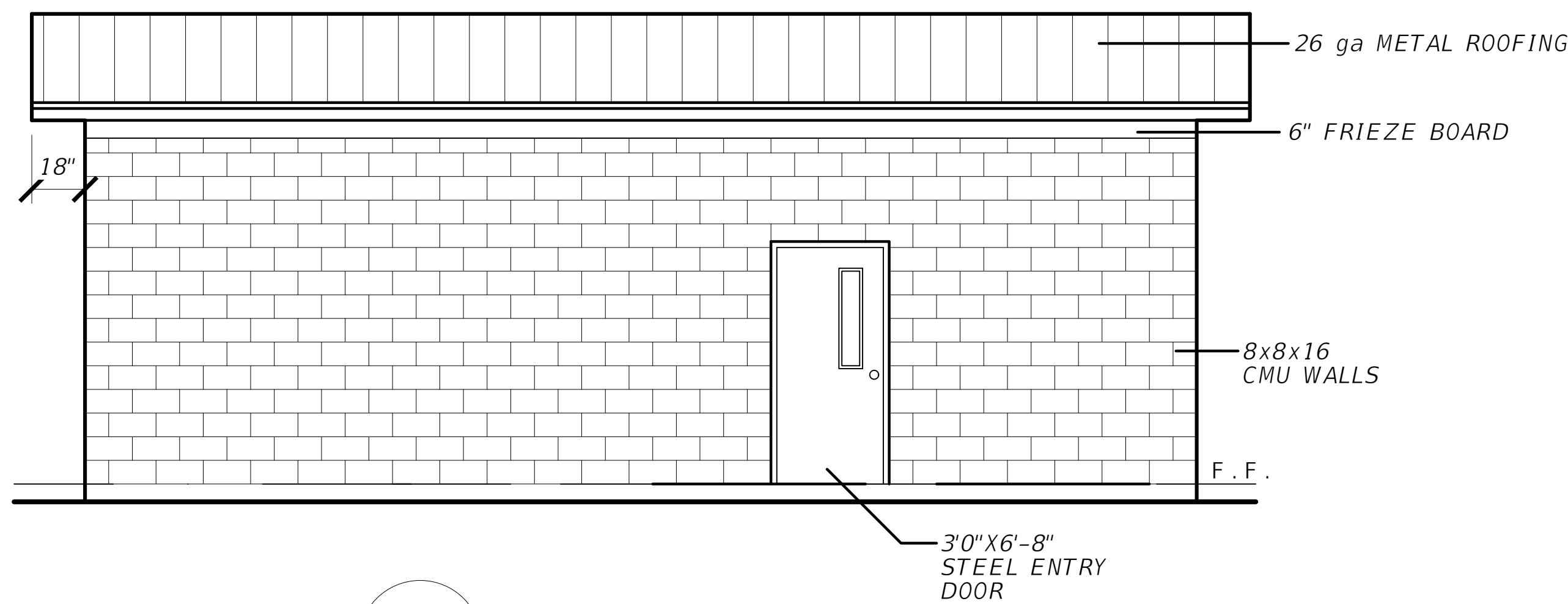
NORTH FLORIDA PROFESSIONAL SERVICES, INC.
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LAKE CITY, FL 32056
PH. 386-752-4675
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2551 BLAIRSTONE PINES DR.
TALLAHASSEE, FL 32301
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CA# 29011

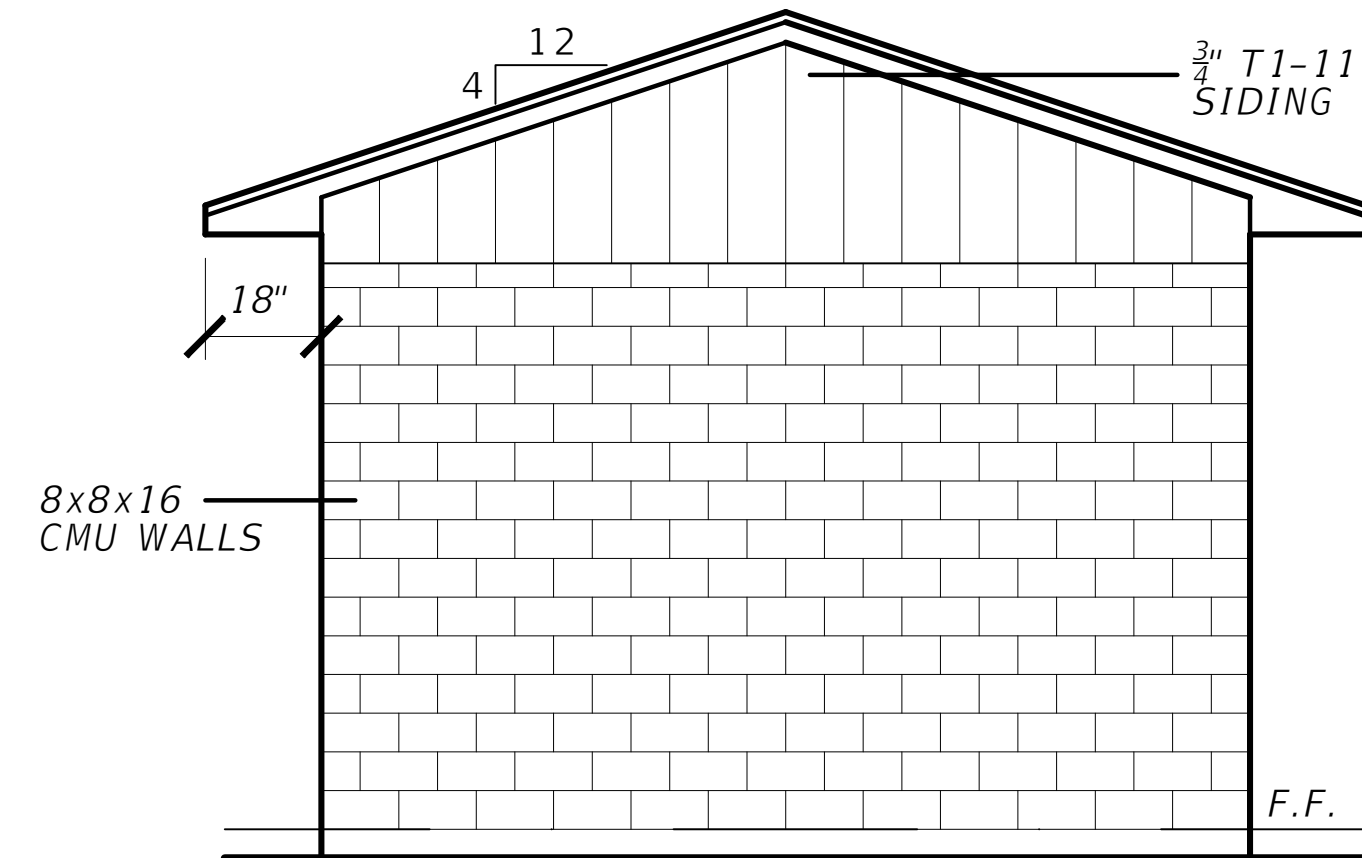
JOB NUMBER:
L2200209FOR
EOR:
ROBERT P. BISHOP
P.E. NO.:
38546

FLOOR PLAN/ELECTRICAL PLAN
FT WHITE PHASE 1 - WASTEWATER TREATMENT
COLUMBIA COUNTY, FLORIDA

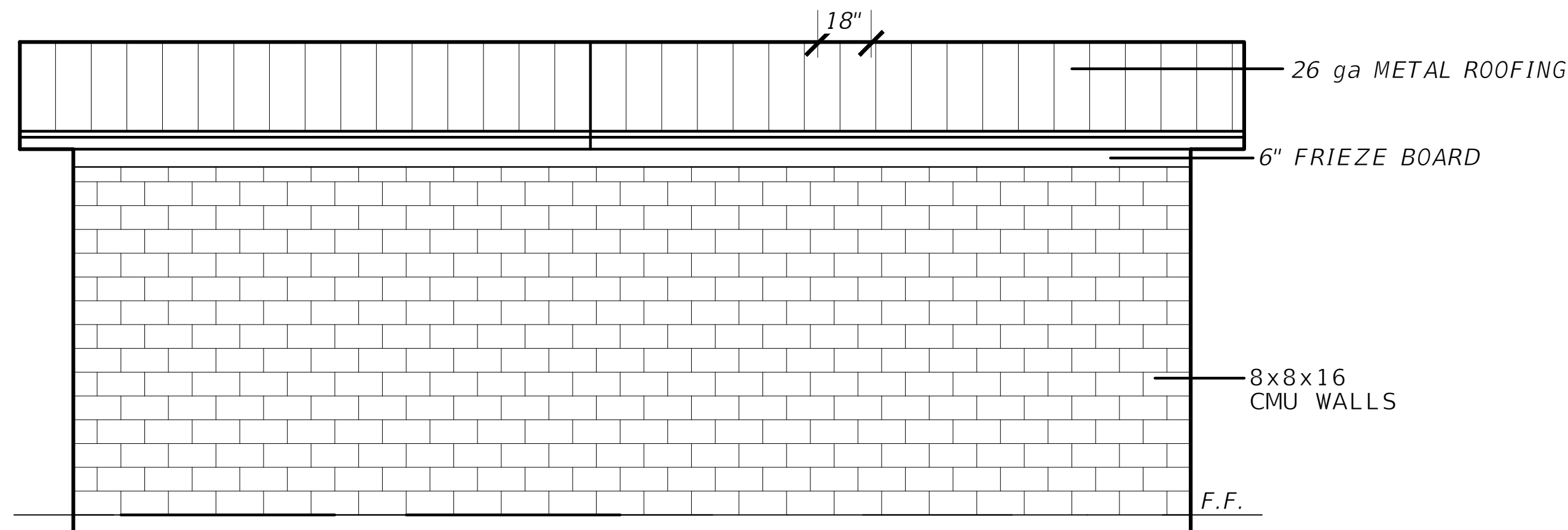
SHEET NO.
B1



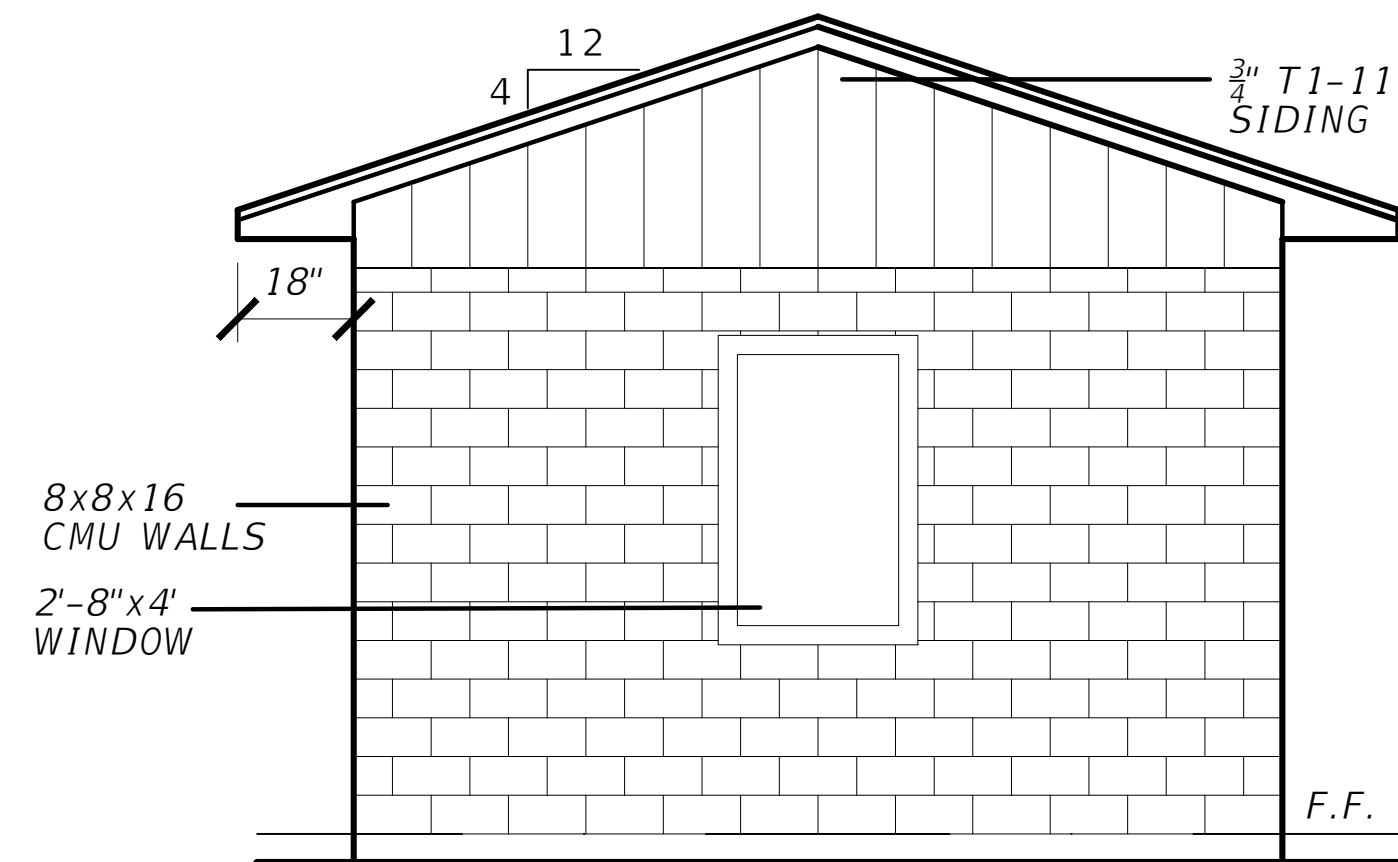
1 NORTH ELEVATION



2 EAST ELEVATION



3 SOUTH ELEVATION



4 WEST ELEVATION

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DATE	DESCRIPTION					
						B2

Grace Pearson

7/8/2025 6:30:55 PM

X:\2022\L220209FOR\H.CADD-2\Struct\DSGMRD01.dwg B2 BLDG ELEVATIONS

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GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY THE ENGINEER OF ANY CHANGES OR MODIFICATIONS TO THE PLANS.
2. ALL PRE-FABRICATED BUILDING ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, SPECIFICATIONS AND REGULATIONS AND TO SUPPORT LOADS INDICATED IN THE STRUCTURAL DESIGN NOTES AND ANY CONCENTRATED LOADS. ALL REQUIRED BRACING (TEMPORARY AND PERMANENT) SHALL BE DESIGNED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PRE-FABRICATED ELEMENTS FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.
3. ALL FRAMING LUMBER SHALL BE SET AND SPACED AS INDICATED, SECURELY ATTACHED, NAILED, BRIDGED AND BLOCKED TO FORM A RIGID STRUCTURE. ALL WORK IS TO BE SECURELY SET, INCLUDING ANCHORING TO MASONRY AND CONCRETE.
4. PROVIDE BLOCKING, NAILERS, PLATES AND OTHER MISCELLANEOUS WHERE SHOWN AND REQUIRED. SECURELY FASTEN BLOCKING IN PLACE. PLACE BOLTS IN CONCRETE, MASONRY AND STEEL FOR THE FASTENING OF BLOCKING AND PLATES WHERE SHOWN AND/OR REQUIRED.
5. ALL WOOD OR METAL STUDS SHALL BE SPACED AT 16" O.C., UNLESS OTHERWISE NOTED ON THE PLANS, WITH A SINGLE SOLE PLATE, DOUBLE TOP PLATE AND A CONTINUOUS ROW OF SOLID GIRTS AT THE CENTER OF HEIGHT. ALL OPENINGS SHALL HAVE WOOD NAILERS AT EACH JAMB AND HEADER.
6. ALL WALLS AND OTHER STRUCTURAL MEMBERS SHALL BE TEMPORARILY BRACED UNTIL PERMANENT BRACING IS IN PLACE.
7. ALL WINDOW AND DOOR HEADERS WITH A MAXIMUM SPAN OF 6'-0" IN A NON-BEARING STUD WALL SHALL BE 2' - 6" METAL HEADERS FOR 4" WALLS.

PAINTING NOTES:

1. ALL MATERIALS USED UNDER THE PAINTING CONTRACT SHALL BE BY AN APPROVED MANUFACTURER AND DELIVERED TO THE JOB SITE IN ORIGINAL, UNOPENED CONTAINERS.
2. ALL PAINT SURFACES SHALL RECEIVE ONE COAT OF PRIMER AND AT LEAST ONE FINISH COAT.
3. EXTERIOR SURFACE PREPARATION: REMOVE ALL DIRT, OIL, GREASE, AND OTHER CONTAMINANTS FROM THE SURFACE PRIOR TO APPLYING ANY PAINT.
4. EXTERIOR SURFACE PREPARATION: WASH AND THOROUGHLY DRY ALL SURFACES FREE OF DIRT, OILS, GREASE, WAX, SOAP, OR OTHER CONTAMINANTS. REPAIR ANY CRACKS OR SURFACE IMPERFECTIONS WITH TO APPLYING AND PAINT.
5. COLORS AND FINISH TO BE DETERMINED BY THE OWNER.
6. APPROVED MANUFACTURERS:
SHERWIN WILLIAMS
BENJAMIN MOORE
GLIDDEN

ARCHITECTURAL NOTES

1. ALL DRYWALL SHALL BE 1/2" GYPSUM WALLBOARD UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. ALL CONSTRUCTION, EQUIPMENT AND FINISHES SHALL MEET OR EXCEED ALL LOCAL CODES, SOUTHERN BUILDING CODE, NFPA 101 LIFE SAFETY CODE AND ALL OTHER GOVERNING CODES AND REVISIONS.
3. ALL INTERIOR STUD WALLS ARE TO BE OF 2x4 (#2 SPF) WOOD @ 16" O.C. UNLESS OTHERWISE NOTED ON THE PLANS. EXTERIOR STUD WALLS ARE TO BE 2x6 WOOD (#2 SPF) STUDS @ 16" O.C. UNLESS OTHERWISE NOTED ON THE PLANS.
4. ROOF SLOPES SHALL BE AS NOTED ON THE PLANS. METAL ROOFING, UNDERLAYMENT, FLASHING, DIP MOLDING AND VENTILATION SHALL BE AS SPECIFIED BY THE ROOFING MANUFACTURER.
5. DO NOT USE ANY MATERIALS CONTAINING ASBESTOS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS SHOWN AND NOTIFY THE ENGINEER OF ANY CHANGES OR MODIFICATIONS.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED AND ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
8. ANY WOOD OR TIMBER THAT COMES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
9. SEE STRUCTURAL DRAWINGS FOR ALL SIZES, SHAPES AND CONDITIONS OF ALL STRUCTURAL MEMBERS, CONNECTIONS FOOTINGS, BRACING, AND REINFORCING
10. ALL INTERIOR FINISHES SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AND LIFE SAFETY CODE, SECTION 6-5.1.5.
11. ALL FLOOR FINISHES SHALL BE LEVEL AND SHALL AVOID ANY CHANGES IN ELEVATION GREATER THAN 1/2" INCLUDING DOOR THRESHOLDS AND STEP DOWNS AT EXTERIOR AND INTERIOR DOORS.
12. ALL FASCIAS AND SOFFIT VENTS (IF ANY REQ'D) ARE TO BE OF ALUMINUM WITH SOFFIT VENTS HAVING 2" CONTINUOUS VENTILATION, SCREENED. COLOR SHALL BE AS SPECIFIED BY OWNER/CONTRACTOR.
13. FOUNDATION WATER-PROOFING AND MOISTURE BARRIER TO CONSIST OF 6-MIL PLASTIC POLYETHYLENE. ALL LAPS SHALL BE A MINIMUM OF 12".
14. FINAL LOCATION, SIZE AND PLACEMENT OF ALL PLUMBING, ELECTRICAL AND MECHANICAL COMPONENTS SHALL BE DETERMINED BY A LICENSED ELECTRICAL OR MECHANICAL CONTRACTOR IN ACCORDANCE WITH CHAPTER 471.003 2(i).
15. THE HEATING, AIR CONDITIONING AND VENTILATING SYSTEM SHALL HAVE MINIMUM SEER, EER AND COP AS SPECIFIED BY THE LATEST EDITION OF THE 'ENERGY DEPARTMENT OF COMMUNITY AFFAIRS.

MILL WORK AND VINYL BASE

1. KITCHEN CABINETS AND VANITY CABINETS SHALL HAVE 1/2" PLYWOOD BOXES WITH SOLID BIRCH HARDWOOD FACE FRAMES. ALL DOORS SHALL HAVE RAISED PANELS WITH FULLY CONCEALED SELF CLOSING HINGES. ALL DRAWERS SHALL HAVE HARDWOOD FACE PLATES ON PLYWOOD BOXES WITH FULL ACCESS, SELF CLOSING DRAWER GLIDES. ALL SHELVES SHALL BE 3/4" THICK ENGINEERED WOOD WITH PVC EDGE BANDING. ALL BASE CABINETS SHALL BE 24" DEEP BY 36" HIGH (TO OF THE COUNTERTOPS) AND WALL CABINETS SHALL BE 12" DEEP BY 42" HIGH. THE BATHROOM VANITY SHALL BE 19" DEEP BY 30" HIGH. ALL COUNTERTOPS SHALL HAVE A PLYWOOD SUBSTRATE WITH A LAMINATE SURFACE. THE VANITY TOP SHALL BE CULTURED MARBLE WITH AN INTEGRAL SINK BASE.
2. THE VINYL COVE BASE SHALL BE FLEXCO OR EQUAL AND SHALL BE A MINIMUM OF 1/8" THICK BY 4" HIGH AND SHALL BE A CONTINUOUS ROLL. NO 4 FOOT LENGTHS WILL BE ALLOWED. CONTRACTOR SHALL PROVIDE COLOR SAMPLES FOR FINAL SELECTION BY THE OWNER.

BUILDING DESIGN INFORMATION	
OCCUPANCY CLASSIFICATION	B
BUILDING CONSTRUCTION TYPE	IIIA
RISK CATEGORY	II

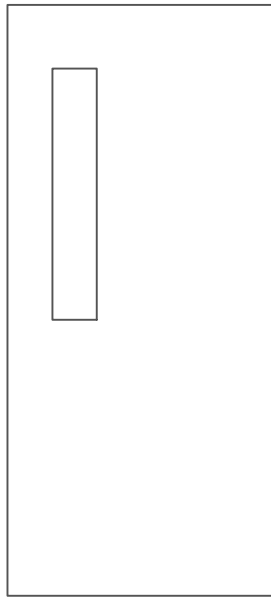
THESE PLANS PREPARED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE

REVISIONS			NORTH FLORIDA PROFESSIONAL SERVICES, INC. P.O. BOX 3823 LAKE CITY, FL 32056 PH. 386-752-4675 LIC NO. LB8356	1450 SW STATE ROAD 47 LAKE CITY, FL 32025 WWW.NFPS.NET	JOB NUMBER: L220209FOR EOR: ROBERT P. BISHOP P.E. NO.: 38546	BLDG NOTES AND SCHEDULES FORT WHITE PHASE 1- WASTEWATER TREATMENT COLUMBIA COUNTY, FLORIDA	SHEET NO.
DATE	DESCRIPTION						
							B3



TYPE II

SOLID CORE, FLUSH WITH
STEEL FRAME (PAINT GRADE)



TYPE III

18 GA. STEEL WITH STEEL
FRAME, (PAINT FINISH)
SIDE LITE, THRESHOLD, AND
WEATHER STRIPPING

HARDWARE LIST

A - PRIVACY LOCK

B - KEYED LOCK

C - PANIC DEVICE

D - CLOSER

NOTE:
DOOR HARDWARE TO HAVE BRONZE FINISH AND COMPLY
WITH REQUIREMENTS OF FLORIDA ACCESSIBILITY CODE.

DOOR SCHEDULE						
MARK	SIZE		TYPE	MAT'L	FINISH	HARDWARE
	WIDTH	HEIGHT				
1	3'-0"	6'-8"	III	STEEL	PAINT	B/D
2	3'-0"	6'-8"	I	WOOD	PAINT	B

FINISH SCHEDULE LEGEND

CMU	--	CONCRETE MASONRY UNIT
VB	--	VINYL BASE, CONTINUOUS ROLL
GWB	--	GYP SUM WALLBOARD (1/2")
HARD	--	HARD COATED PLASTER FINISH, LIGHT TEXTURE
CB	--	CEMENT BOARD (1/2")
KD/P	--	KNOCK DOWN TEXTURE, PAINTED
P	--	PAINT
EP	--	EPOXY PAINT

FINISH SCHEDULE							
ROOM NAME	FLOOR	BASE	WALLS		CEILING		
OFFICE/ LAB	CONC	VINYL	PAINT	CMU	G.W.B.	H.C.	PAINT
RESTROOM	CONC.	VINYL	PAINT	CMU	G.W.B.	H.C.	PAINT

WINDOW SCHEDULE					
MARK	ROUGH OPEN.		TYPE	FRAME	FINISH
	WIDTH	HEIGHT			
1	2'-8"	3'-4"	FIXED	ALUM.	BRONZE

REVISIONS

DATE	DESCRIPTION



NORTH FLORIDA
PROFESSIONAL SERVICES, INC.

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EOR:
ROBERT P. BISHOP
P.E. NO.:
38546

BLDG NOTES AND SCHEDULES

FORT WHITE PHASE 1- WASTEWATER TREATMENT
COLUMBIA COUNTY, FLORIDA

SHEET NO.

B4

Grace Pearson

7/8/2025 6:27:38 PM

X:\2022\L220209FOR\H.CADD-2\Struct\DSGNRD01.dwg B4 BLDG NOTES & SCHEDULES

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GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS SHOWN. NOTIFY THE ENGINEER OF ANY CHANGES OR MODIFICATIONS TO THE PLANS.
2. ALL PRE-FABRICATED BUILDING ELEMENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, SPECIFICATIONS AND REGULATIONS AND TO SUPPORT LOADS INDICATED IN THE STRUCTURAL DESIGN NOTES AND ANY CONCENTRATED LOADS. ALL REQUIRED BRACING (TEMPORARY AND PERMANENT) SHALL BE DESIGNED AND NOTED ON ERECTION DRAWINGS BY THE MANUFACTURER. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL PRE-FABRICATED ELEMENTS FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.
3. ALL FRAMING LUMBER SHALL BE SET AND SPACED AS INDICATED, SECURELY ATTACHED, NAILED, BRIDGED AND BLOCKED TO FORM A RIGID STRUCTURE. ALL WORK IS TO BE SECURELY SET, INCLUDING ANCHORING TO MASONRY AND CONCRETE.
4. PROVIDE BLOCKING, NAILERS, PLATES AND OTHER MISCELLANEOUS WHERE SHOWN AND REQUIRED. SECURELY FASTEN BLOCKING IN PLACE. PLACE ANCHOR BOLTS IN CONCRETE, MASONRY AND STEEL FOR THE FASTENING OF BLOCKING AND PLATES WHERE SHOWN AND/OR REQUIRED.

STRUCTURAL NOTES

STRUCTURAL DESIGN CRITERIA

1. ALL WORK HAS BEEN DESIGNED FOR THE FOLLOWING LOADS AND SPECIFICATIONS APPLIED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, ACI 318-19, TMS 402/602-16, AND NDS 2018.
2. DESIGN LOADS:
- 2.1 SUPERIMPOSED DEAD LOAD (ROOF, CEILING, M.E.P. EQUIPMENT/DUCTS) = 10 PSF
- 2.2 LIVE LOAD(ROOF)= 20 PSF
- 2.3 WIND LOADS=
- | | |
|---|----------------------|
| a. ULTIMATE DESIGN WIND SPEED, 3 SECOND GUST, VuIt. | 125 MPH |
| b. HURRICANE PRONE REGION | YES |
| WINDBORNE DEBRIS REGION | NO |
| c. BUILDING RISK CATEGORY | II |
| d. WIND EXPOSURE CATEGORY | C |
| e. WIND TOPOGRAPHIC FACTOR (Kzt) | 1.0 |
| f. GROUND ELEVATION FACTOR (Ke) | 1.0 |
| g. ENCLOSURE CATEGORY | PARTIALLY ENCLOSED |
| h. INTERNAL PRESSURE COEFFICEINT | +/-0.55 |
| i. MEAN ROOF HEIGHT | 15 FEET |
| j. WIND DIRECTIONALITY FACTOR (Kd) | .85 |
| k. VELOCITY PRESSURE COEFFICIENT (Kh) | .85 |
| l. ULTIMATE VELOCITY PRESSURE (qh) | 34.0 PSF |
| m. COMPONENTS & CLADDING WIND PRESSURES | SEE TABLE NEXT SHEET |
| n. DIMENSION "a" | 3 FT |
- 2.4 RAIN LOADS: DESIGN RAIN INTENSITY IS 4.5 INCHES PER HOUR

WOOD

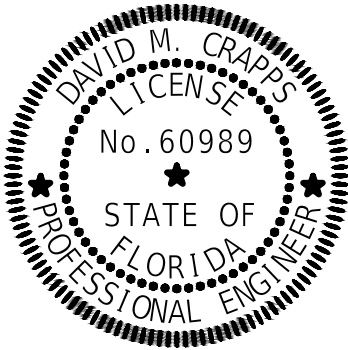
1. STRUCTURAL FRAMING PLANS DEPICT THE PRIMARY STRUCTURAL FRAMING SYSTEM. CONTRACTOR SHALL PROVIDE SECONDARY AND MISCELLANEOUS FRAMING AS REQUIRED TO COMPLETE THE PROJECT.
2. DRESSED SEASONED LUMBER: S4S, 19% MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING.
- 2.1. COLUMNS AND STUD FRAMING: SOUTHERN PINE NO.2 OR STRONGER.
- 2.2. LINTELS, FLOOR JOISTS AND BEAMS: SOUTHERN PINE, NO.2 GRADE
- 2.3. WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER: ABOVE GRADE PRESSURE-TREATED (AWPA-UC3A OR UC3B) OR GROUND CONTACT RATED PRESSURE TREATED (AWPA-UC4A). GROUND CONTACT RATED WOOD IS RECOMMENDED AT THE CRAWLSPACE AND DECK AREAS (IF PRESENT). USE HOT-DIP GALVANIZED NAILS IN PRESSURE TREATED WOOD.
3. STRUCTURAL PANELS
- 3.1. WALL PANELS: 5/8" APA RATED SHEATHING.
- 3.2. ROOF PANELS: 5/8" APA RATED SHEATHING.
4. WOOD SHEAR WALLS
- 4.1. PANELS SHALL BE ORIENTED WITH THE LONG DIMENSION IN THE VERTICAL DIRECTION.
- 4.2. SOLID 2x BLOCKING SHALL BE PROVIDED AT UNSUPPORTED, HORIZONTAL PANEL EDGES.
- 4.3. NAIL PANELS WITH 8d HOT-DIPPED GALVANIZED RINGSHANK NAILS SPACED AT 6" AT THE PERIMETER OF THE PANELS AND AT 12" AT INTERMEDIATE SUPPORTS, UON.
- 4.4. DOUBLE 2x FRAMING STUDS SHALL BE USED AT THE ENDS OF EACH SHEAR WALL, UON.
- 4.5. CONNECTIONS FOR STRUCTURAL TIMBER: GALVANIZED STRONG-TIE CONNECTORS BY THE SIMPSON STRONG TIE COMPANY OR APPROVED EQUAL.
5. LAMINATED VENEER LUMBER (LVL) SHALL BE WEYERHAUSER/TRUS JOIST MICROLLAM LVL (OR EQUAL) WITH F'b NOT LESS THAN 2,600 PSI AND MINIMUM 2.0E.
6. BOLTED CONNECTIONS SHALL CONSIST OF ASTM A307 BOLTS, FASTENED TO A SNUG-TIGHT CONDITION.

CONCRETE NOTES

1. ALLOWABLE SOIL BEARING= 2000 PSF
2. FILL AND COMPACTION:
- ALL FILL MATERIAL SHALL BE CLEAN, WELL DRAINED SAND WITH NOT MORE THAN 10% PASSING THE No. 200 STANDARD SIEVE. ALL FILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MODIFIED MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.
3. CONCRETE COMPRESSIVE STRENGTH AND SLUMP:
- THE MINIMUM 28-DAY COMPRESSIVE STRENGTH AND SLUMP OF CONCRETE SHALL BE AS FOLLOWS:
- FOUNDATIONS AND FLOOR SLAB: f'c'= 3000 PSI SLUMP: 3"-5"
- ALL CONCRETE SHALL BE MIXED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315 AND ACI 318.
4. REINFORCING STEEL:
- ALL LAP SPLICES SHALL BE A MINIMUM OF 48 BAR DIAMETERS OR AS SPECIFIED ON THE PLANS.
- REINFORCING STEEL BARS - ASTM A-615 GRADE 60
- WELDED WIRE FABRIC - ASTM A-185(LAP MESH 1 GRID SPACE PLUS 2")
5. CHAIR SUPPORTS FOR REINFORCING SHALL BE PLASTIC OR RUBBER TIPPED. DO NOT USE UNCOATED STEEL CHAIRS.

PRE-ENGINEERED WOOD TRUSSES

1. DESIGN OF METAL CONNECTED ROOF TRUSSES SHALL COMPLY WITH: 2023 FLORIDA BUILDING CODE. TRUSS PLATE INSTITUTE'S DESIGN FOR LIGHT METAL PLATE CONNECTED ROOF TRUSSES.
2. PRE-ENGINEERED PRE-FABRICATED WOOD TRUSSES AND THEIR CONNECTIONS TO EACH OTHER SHALL BE DESIGNED FOR THE LOADS INDICATED IN THESE NOTES ABOVE.
3. SIGNED AND SEALED SHOP DRAWINGS SHOWING TRUSS CONFIGURATION WITH MEMBER SIZES AND CONNECTIONS, DESIGN LOADS, DURATION FACTORS AND ERECTION DETAILS MUST BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. IF REQUIRED, SUBMIT COPIES TO THE BUILDING DEPARTMENT AT TIME OF PERMITTING.
4. PRE-FABRICATED WOOD TRUSSES SHALL BE FABRICATED FROM SOUTHERN PINE (SPIB) KILN DRIED #2 OR BETTER FOR CHORDS AND #3 GRADE OR BETTER FOR WEBS.
5. NO WANE, SKIPS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT AREA OR SCARIFIED AREA OF WEB MEMBERS. PLATES SHALL BE CONNECTED WITH ONE REQUIRED EACH SIDE OF TRUSS.
6. TRUSSES SHALL BE DESIGNED FOR MINIMUM LIVE LOADS SHOWN IN THESE NOTES.
7. HANDLING, ERECTION AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE, LATEST EDITION, AND AS NOTED BELOW.
8. AMOUNT AND TYPE OF TRUSS UPLIFT STRAPPING SHALL BE VERIFIED W/ TRUSS ENGINEER'S SHOP DRAWINGS AND CALCULATION AND ADJUSTED ACCORDINGLY, TO A HIGHER WIND UPLIFT RATED PART, AS NEEDED.
9. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY NAILED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL BRACING SHALL BE DESIGNED BY MANUFACTURER AND INDICATED ON SHOP DRAWINGS. CONTRACTOR SHALL COORDINATE WITH TRUSS FABRICATOR TO ENSURE THAT ALL BRACING IS PROVIDED INCLUDING BOTTOM CHORD BRACING BY WAY OF CEILING SHEATHING OR SPECIFIC BRACES AT PREDETERMINED LOCATIONS (AT DROPPED SUSPENDED CEILING). ALL PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES COMMENTARY, "HANDLING AND ERECTING WOOD TRUSSES", AS PUBLISHED BY THE TRUSS PLATE INSTITUTE. PROVIDE STRONG BACK BRACING AT TRUSSES PER REQUIREMENTS FROM TRUSS DESIGNER. COMPONENT-TO-COMPONENT CONNECTIONS SHALL BE SPECIFIED ON PRE-ENGINEERED TRUSS DESIGN SUBMITTAL.



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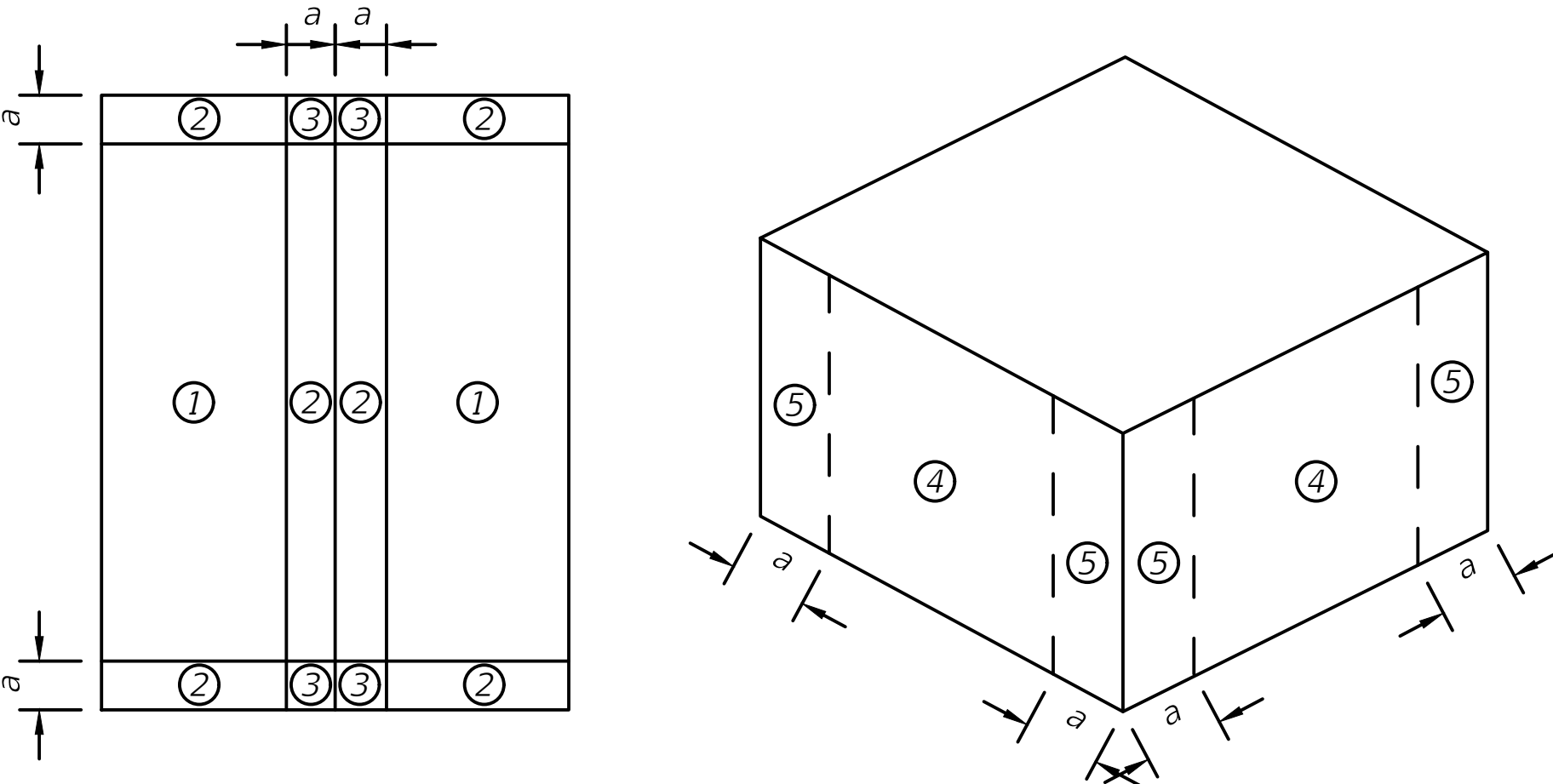
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CONCRETE MASONRY

- CONCRETE MASONRY WORK SHALL CONFORM TO TMS 402/602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
- LOAD BEARING, NON-LOAD BEARING, AND BACKUP WALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - CONCRETE BLOCK:ASTMC90, NORMAL WEIGHT (MINIMUM 125 PCF) (MINIMUM 28 DAY COMPRESSIVE STRENGTH 2,000 PSI FOR TYPE S MORTAR)
 - MORTAR:ASTM C270, TYPE S PORTLAND CEMENT / LIME ONLY BY PROPORTION
 - GROUT:ASTM C476 BY PROPORTION (MINIMUM 28 DAY COMPRESSIVE STRENGTH 2,000 PSI)
 - REINFORCEMENT:ASTM A615, GRADE 60
 - JOINT REINFORCEMENT:ASTM A82, LADDER TYPE SPACED AT 16" O.C.
 - EXTERIOR JOINT REINFORCEMENT:GALVANIZE PER ASTM A153
 - INTERIOR JOINT REINFORCEMENT:GALVANIZE PER ASTM A153
 - ADHESIVE ANCHORS:HIT-HY 270 BY HILTI, TULSA, OK
- MATERIAL SHALL CONFORM TO THE FOLLOWING, HOT DIPPED GALV. EXCEPT AS NOTED
 - PLATE AND BENT BAR ANCHORS:ASTM A36
 - SHEET METAL ANCHORS AND TIES:ASTM A366/A366M
 - WIRE MESH TIES:STM A 185 OR ASTM A 497.
 - WIRE TIES AND ANCHORS:ASTM A 82, AND ASTM A167
 - ANCHOR BOLTS:ASTM F1554, GRADE 36
- HAND MIXING MORTAR IS NOT ALLOWED.
- PIGMENTS WILL NOT BE ALLOWED IN MORTAR MIX UNLESS OTHERWISE SPECIFIED.
- PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE HOT-DIP GALVANIZED LONGITUDINAL WIRES AT 16" VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL STRENGTH ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC. LAP ALL JOINT REINFORCEMENT 6" MIN.
- THE MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY (f'm) SHALL BE 2,000 PSI UON, VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH THE ABOVE REFERENCED SPECIFICATIONS.
- CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
- PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
- PROVIDE FULL MORTAR COVERAGE ON WEBS.
- LAY MASONRY UNITS IN RUNNING BOND UON WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COURSE.
- IF TEMPERATURE FALLS BELOW 40 DEG F. OR EXCEEDS 100 DEG. F SPECIAL CONSTRUCTION MEASURES SHALL BE TAKEN AS PER TMS 402/602-16.
- GROUT PLACEMENT STOPPED FOR ONE HOUR OR MORE SHALL BE STOPPED 1 1/2" BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A SHEAR KEY FOR SUBSEQUENT GROUTING.
- SHORE ALL BEAMS AND LINTELS, PREFERABLY FOR NOT LESS THAN ONE WEEK, UNTIL CURED MASONRY STRENGTH REACHES 2,000 PSI.
- STRUCTURAL INSPECTIONS BY TESTING AGENCY SHALL INCLUDE PRE-POUR INSPECTION OF THE CMU WALL REINFORCING AND FOUNDATION DOWELS PRIOR TO GROUTING.

WIND PRESSURE DIAGRAM

- DESIGN WIND PRESSURES TO BE USED IN THE DESIGN OF ALL COMPONENTS AND CLADDING ELEMENTS.
- REFER TO WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS AND EXTENTS.
- POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES AND NEGATIVE PRESSURES ACT AWAY FROM COMPONENT SURFACES.
- LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT AND CLADDING DESIGN WIND PRESSURE.
- WIND PRESSURES SHOWN ARE UNFACTORED. MULTIPLY BY A FACTOR OF 0.6 FOR ALLOWABLE STRESS DESIGN (ASD). MULTIPLY BY A FACTOR OF 1.0 FOR LOAD AND RESISTANCE FACTOR DESIGN (LRFD).



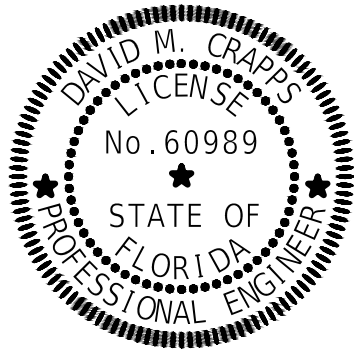
COMPONENTS AND CLADDING WIND PRESSURES ON ROOF AND WALLS (PSF)								
ZONE	1,2,3	1	2	3	4		5	
TRIB AREA	(+)	(-)	(-)	(-)	(+)	(-)	(+)	(-)
10	33	-74	-94	-120	45	-48	45	-56
20	32	-65	-83	-105	44	-47	44	-53
50	29	-53	-68	-84	42	-44	42	-49
100	27	-45	-57	-68	40	-43	40	-47
200	25	-30	-45	-68	38	-41	38	-43
500	25	-30	-45	-68	36	-39	36	-39

WINDOWS, DOORS, AND ROOFS

- FOR THE SELECTION OF WINDOW, DOOR, AND ROOF PRODUCTS, TABULATED VALUES ARE NORMALLY MULTIPLIED BY 0.6 PRIOR TO COMPARISON WITH THE POSITIVE AND NEGATIVE PRESSURE RATINGS PROVIDED IN EACH FLORIDA PRODUCT APPROVAL. IT IS RECOMMENDED THAT THE MANUFACTURER'S REPRESENTATIVE REVIEW THESE DRAWINGS FOR VERIFICATION.
- FOR DETERMINATION OF COMPONENTS AND CLADDING WIND PRESSURES, THE TRIBUTARY AREA FOR ROOFING PRODUCTS IS TYPICALLY CONSIDERED TO BE 10 SQUARE FEET OR LESS. FOR WINDOWS AND DOORS, THE TRIBUTARY AREA IS THE SURFACE AREA OF THE WALL OPENING.

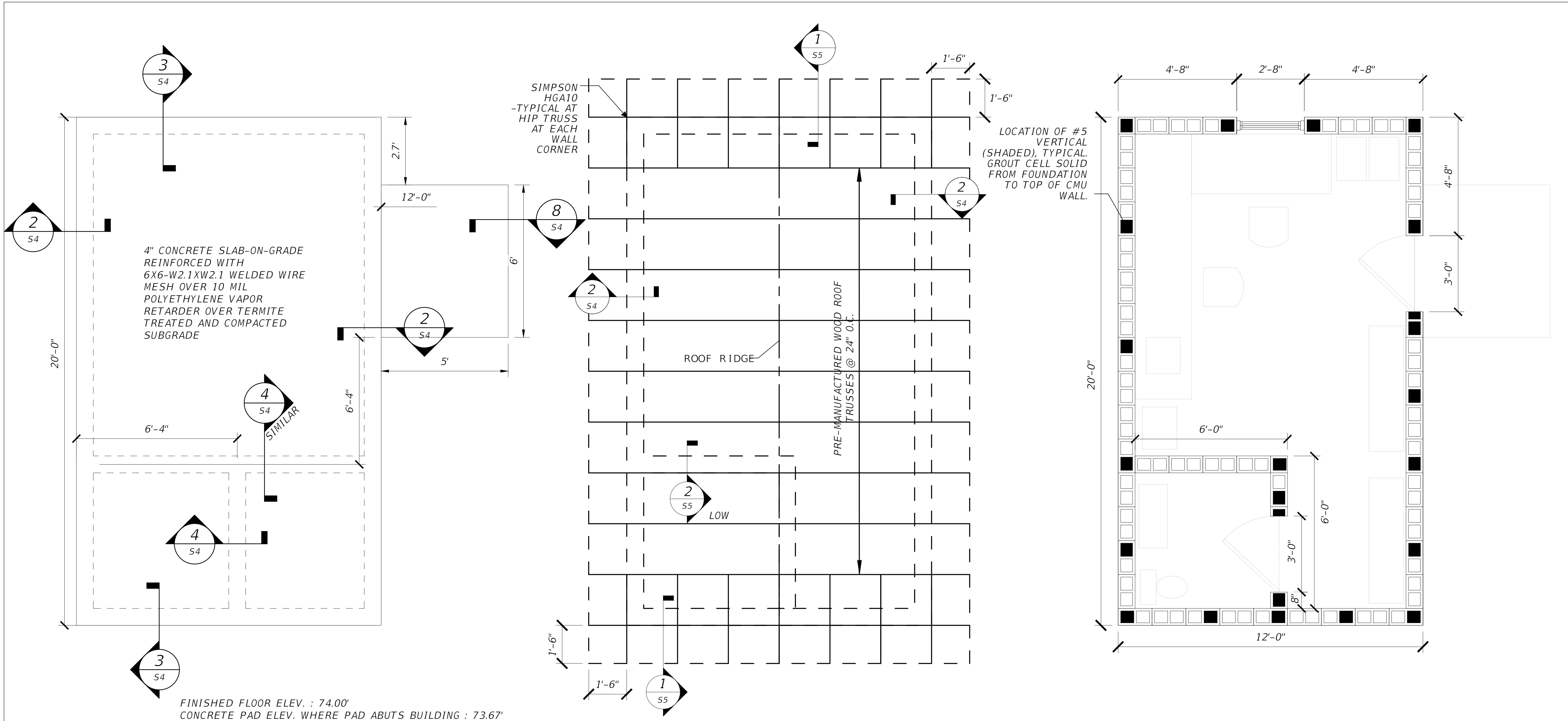
ROOF OVERHANG PRESSURES

- ROOF OVERHANG PRESSURES ARE DETERMINED BY SUMMING THE ABSOLUTE VALUE OF THE NEGATIVE ROOF ZONE (1, 2, OR 3) PRESSURE AND THE POSITIVE WALL ZONE (4 OR 5) PRESSURE, BASED ON THE APPLICABLE TRIBUTARY AREA. THE SUM IS THEN MULTIPLIED BY -1 TO GET THE CORRESPONDING ROOF OVERHANG UPLIFT PRESSURE.



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1 **FOUNDATION PLAN**
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

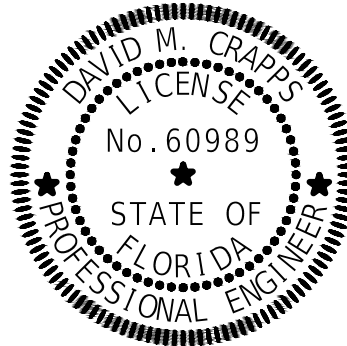
1. LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION FOR NEW FOOTINGS.
2. NEW FOUNDATIONS SHALL BE ALLOWED TO SETTLE PRIOR TO COMMENCEMENT OF WALL CONSTRUCTION.
3. MAINTAIN POSITIVE SLOPE FOR FINISHED GRADE AWAY FROM NEW FOUNDATIONS PER CODE.
4. FIELD VERIFY DIMENSIONS AS REQUIRED.
5. SLAB ELEVATIONS SHOWN ARE RELATIVE TO AN ARBITRARY SET REFERENCE DATUM OF 0'-0". SEE THE CIVIL DRAWINGS OR LICENSED SURVEY FOR THE ACTUAL ELEVATION.

2 **ROOF FRAMING PLAN**
SCALE: 1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. FIELD VERIFY DIMENSIONS AS REQUIRED.
2. ROOF SHEATHING SHALL BE 5/8" APA RATED PLYWOOD OR OSB WITH 8d X 2-1/2" LONG HOT DIPPED GALVANIZED RINGSHANK NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD OF PANEL. PROVIDE 1/8" GAP BETWEEN ADJACENT PANELS AND/OR USE SIMPSON PSCL CLIPS.
3. GABLE END WALL SHEATHING SHALL BE 5/8" APA RATED PLYWOOD OR OSB WITH 8d X 2-1/2" LONG HOT DIPPED GALVANIZED RINGSHANK NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD OF PANEL. PROVIDE SOLID 2X BLOCKING AT ALL HORIZONTAL EDGES.

3 **CMU WALL REINFORCING PLAN**
SCALE: 1/4" = 1'-0"



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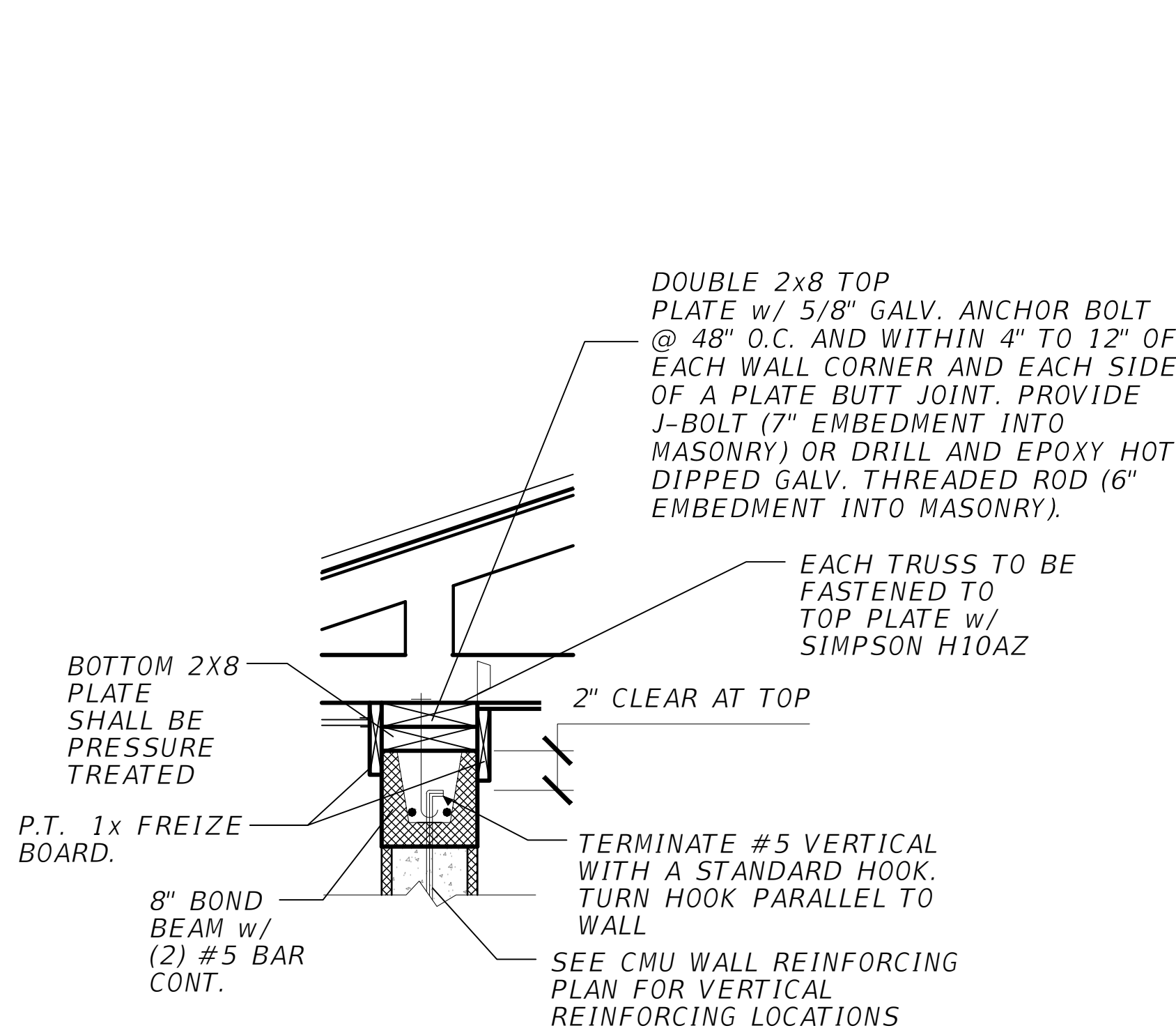
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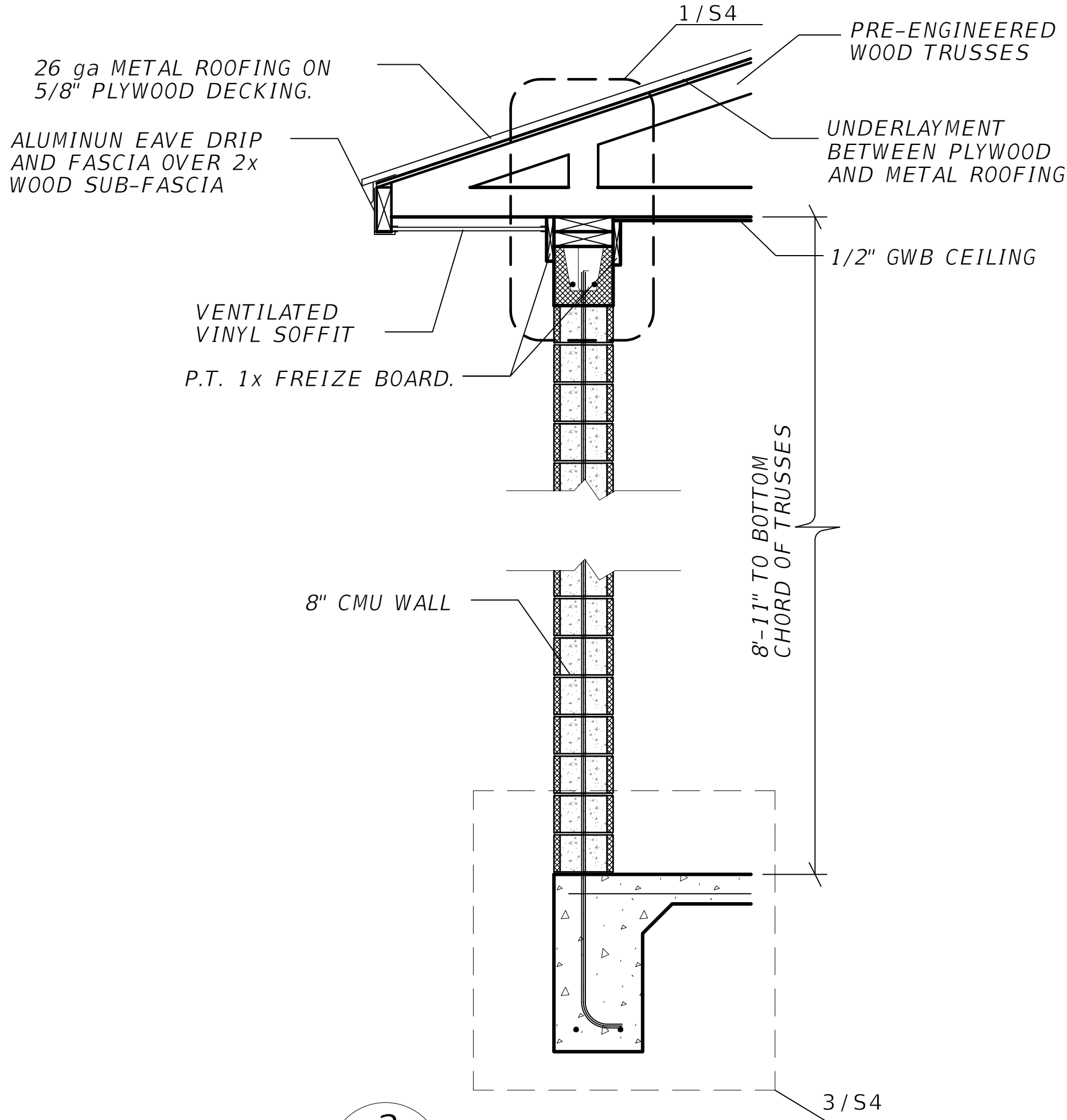
BUILDING PLANS
FORT WHITE PHASE 1- WASTEWATER TREATMENT
COLUMBIA COUNTY, FLORIDA

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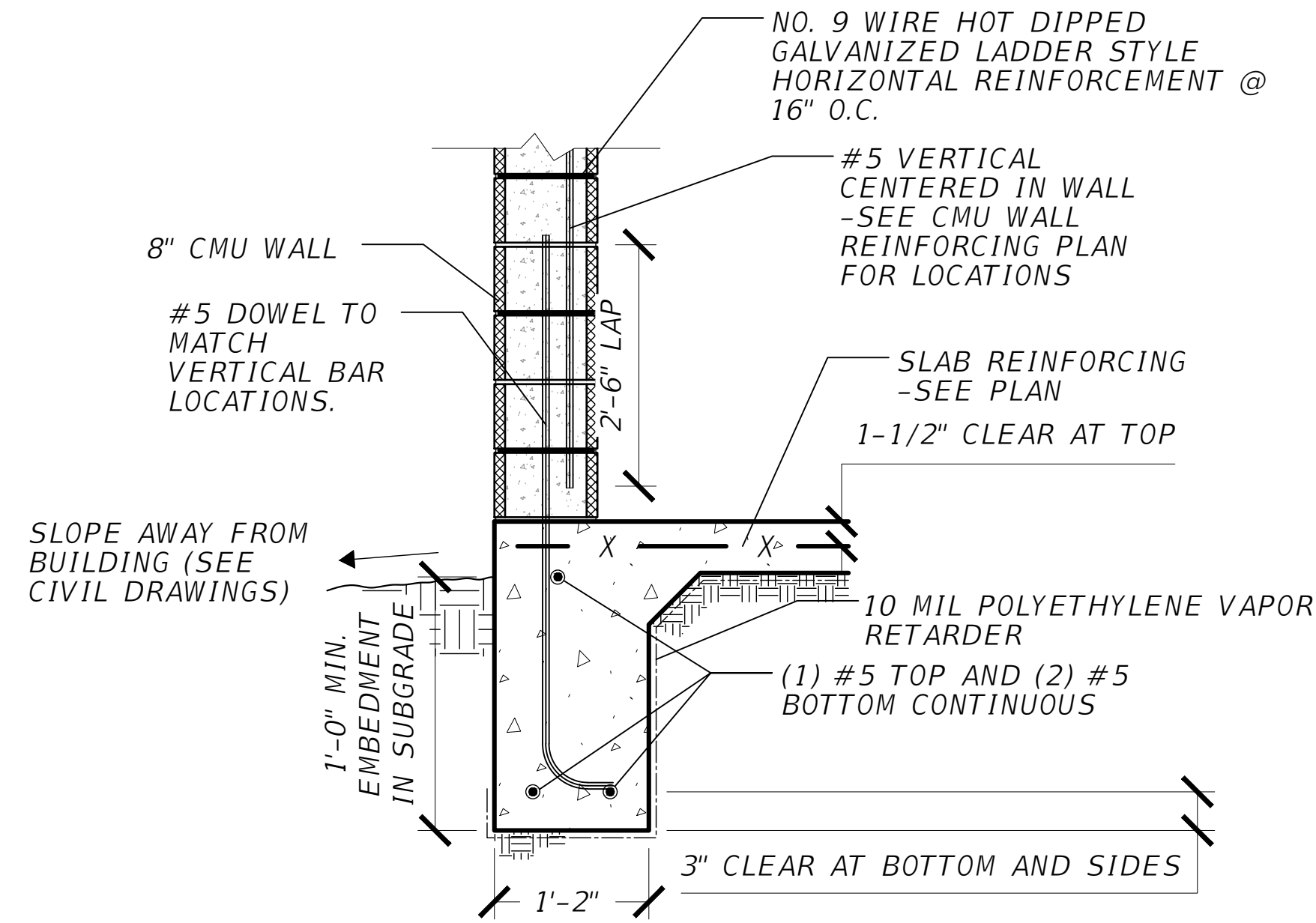
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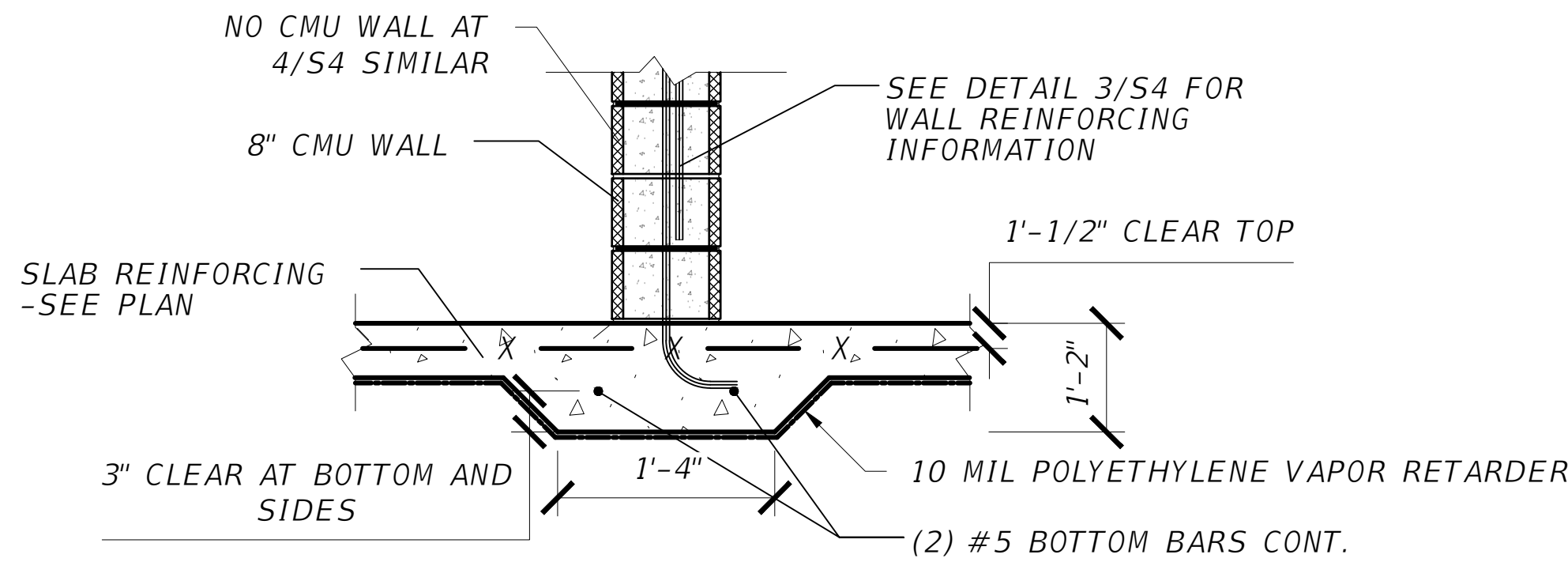
1 TRUSS AT LOADBEARING WALL
S4 SCALE: N.T.S.



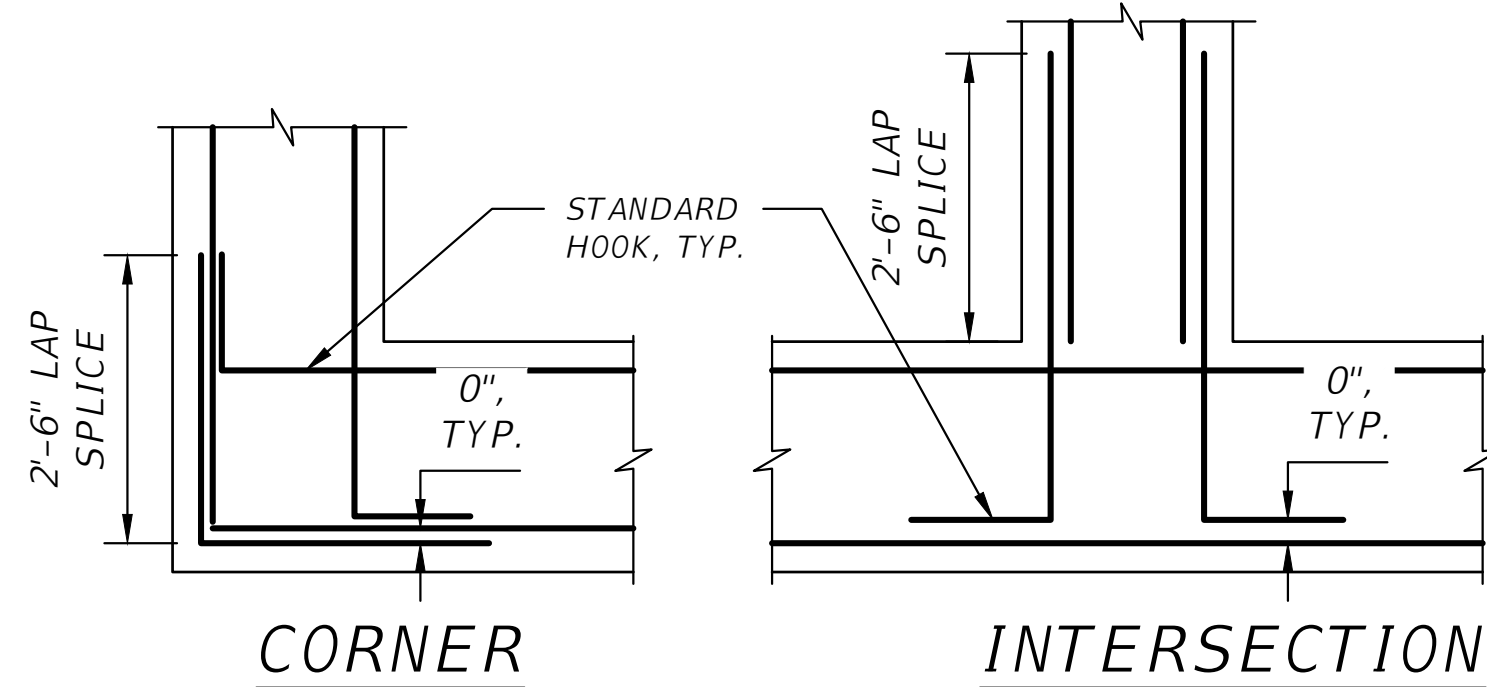
2 WALL SECTION
S4 SCALE: N.T.S.



3 PERIMETER FOUNDATION
S4 SCALE: N.T.S.

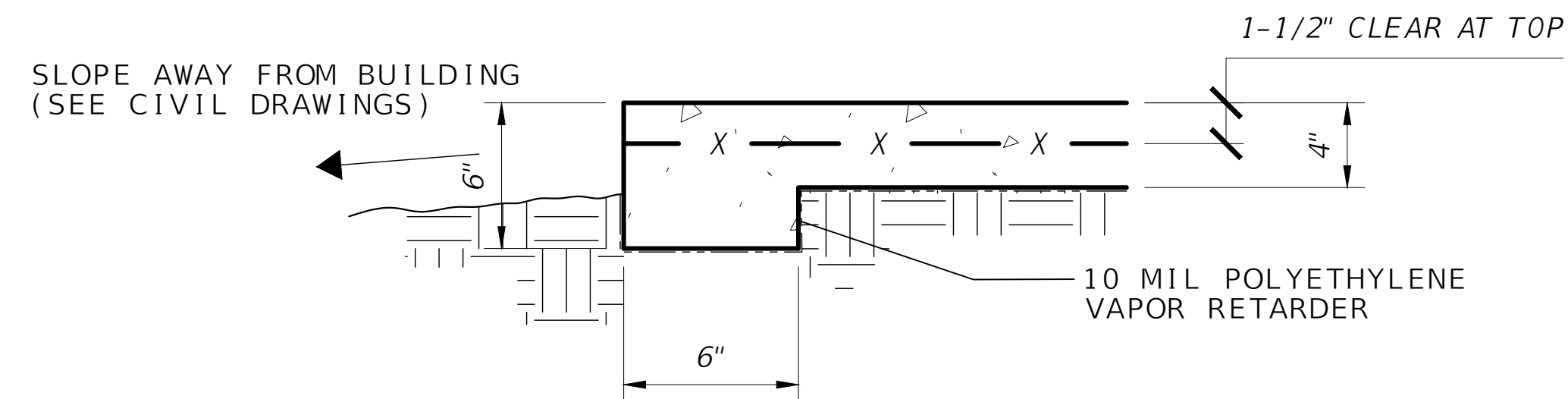


4 INTERIOR FOUNDATION
S4 SCALE: N.T.S.

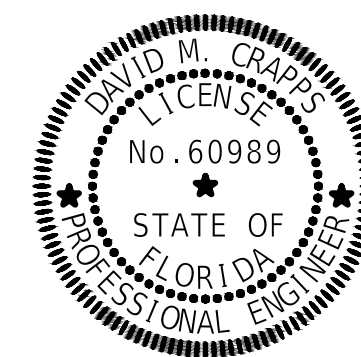


NOTE:
 PROVIDE MATCHING CORNER BARS FOR ALL HORIZONTAL REINFORCING AT INTERSECTIONS & CORNERS OF ALL FOOTINGS, THICKENED SLABS ON GRADE, AND HORIZONTAL WALL REINFORCEMENT UNLESS NOTED OTHERWISE.

5 TYPICAL REINFORCEMENT DETAIL
S4 SCALE: N.T.S.



8 CONCRETE PAD DETAIL
S4 SCALE: N.T.S.



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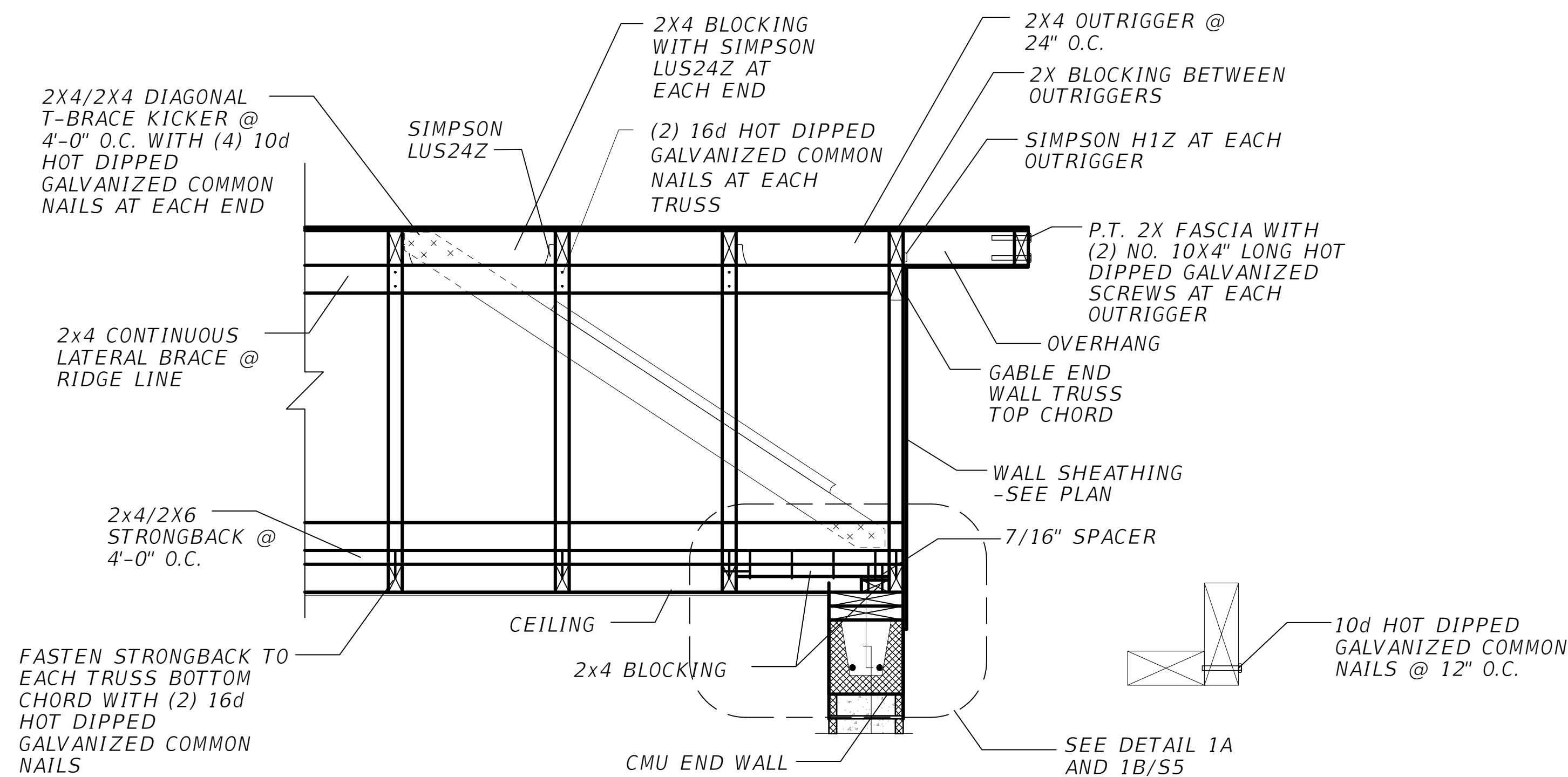
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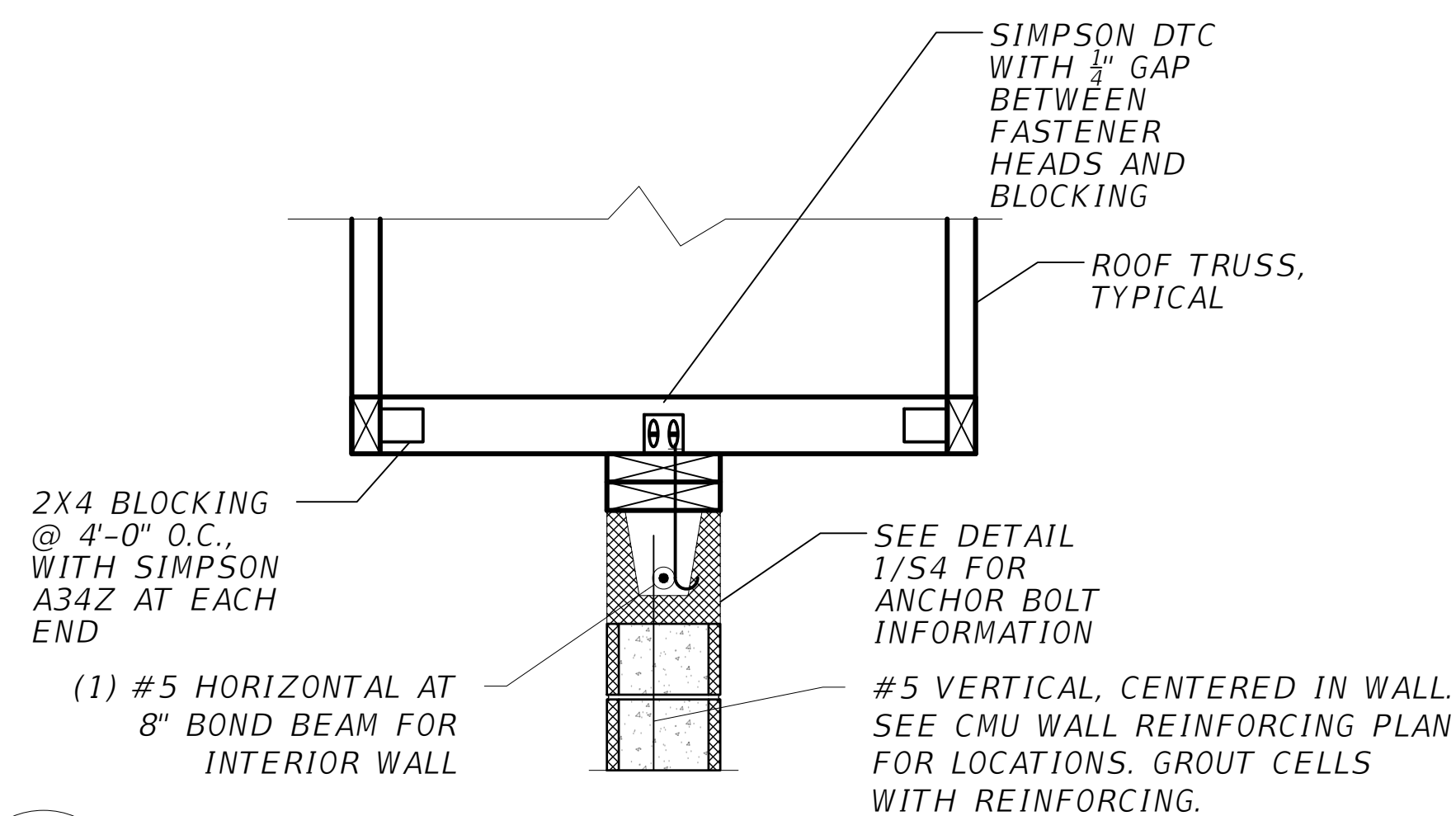
BUILDING STRUCTURAL DETAILS
FORT WHITE PHASE 1- WASTEWATER TREATMENT
COLUMBIA COUNTY, FLORIDA

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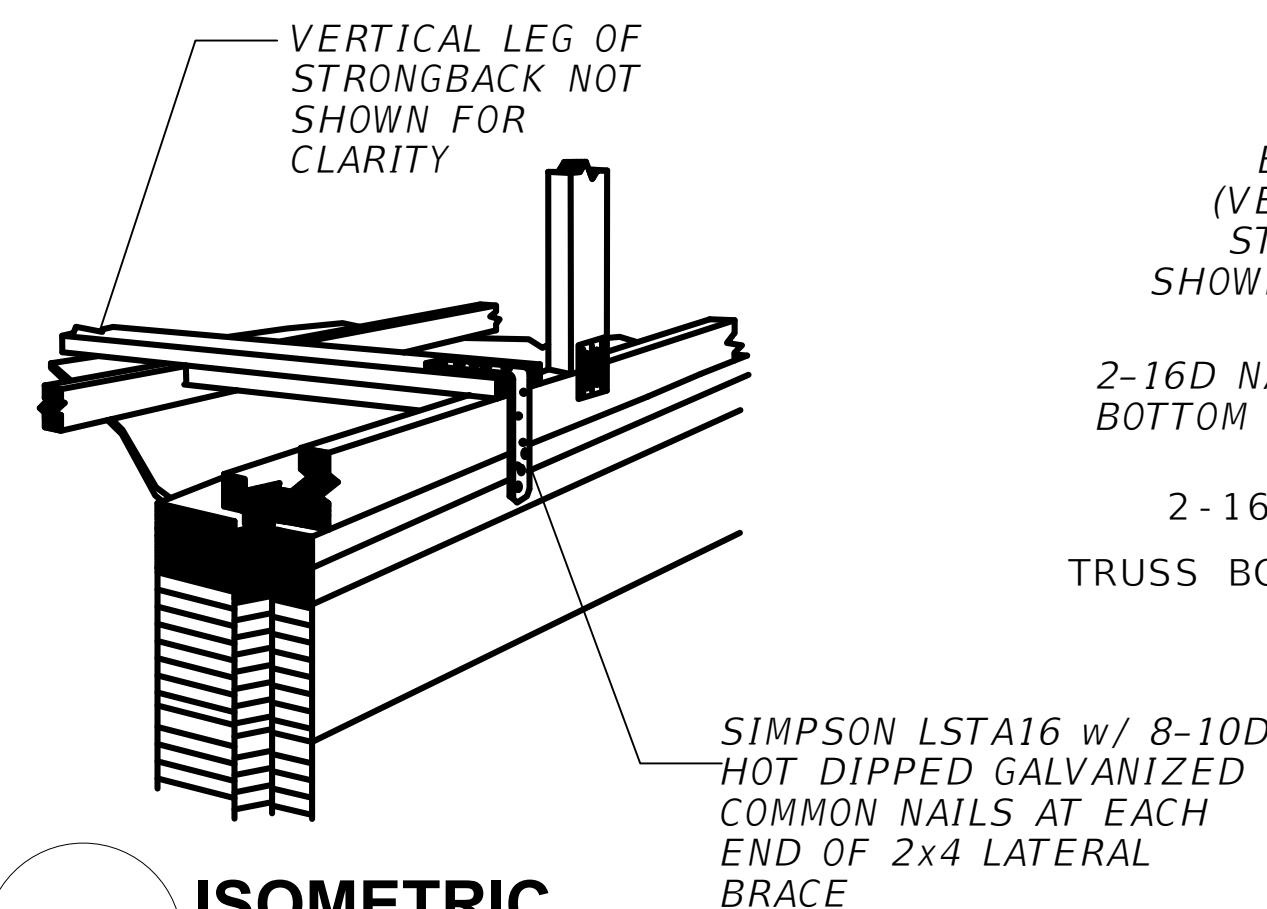
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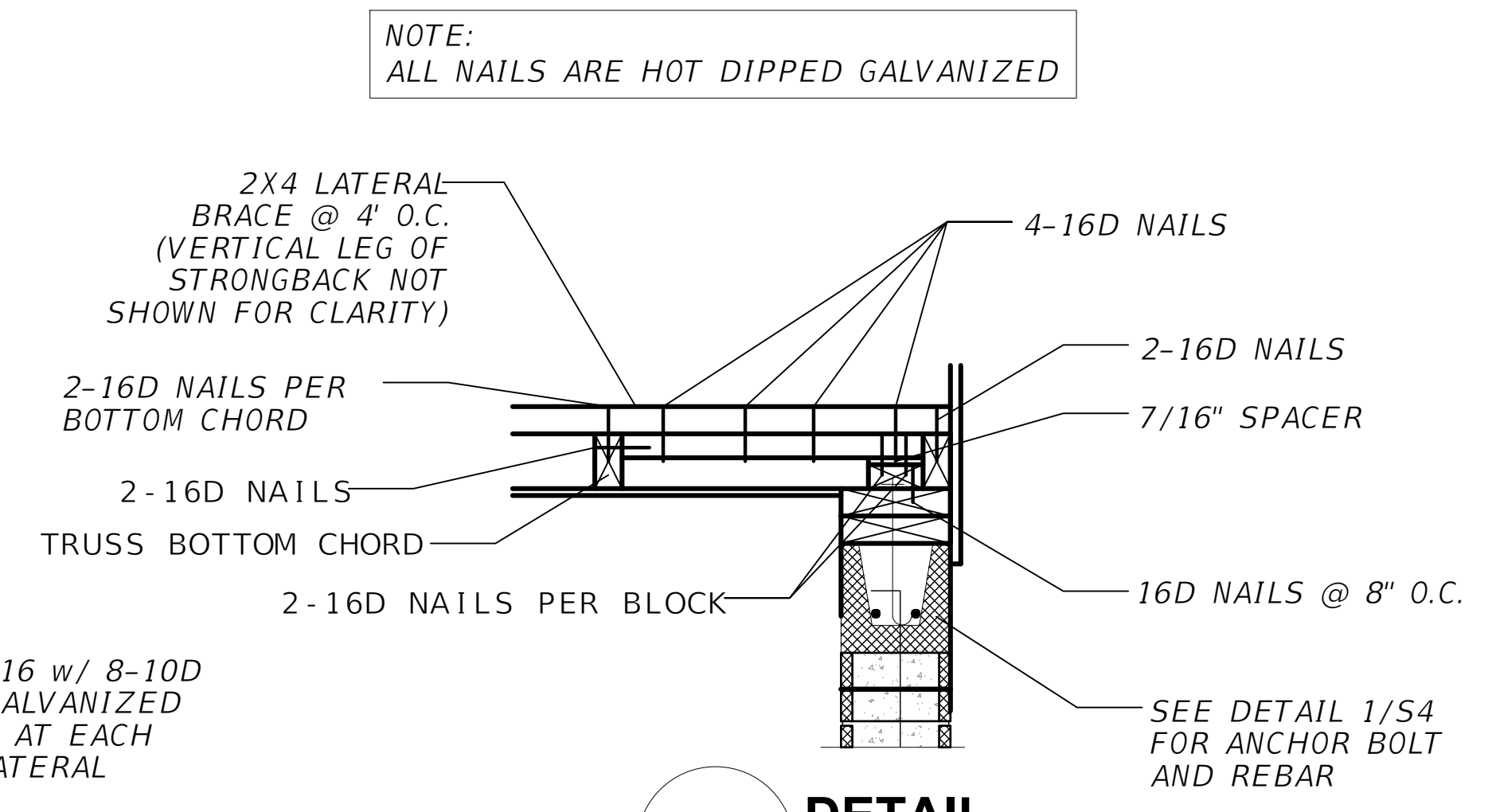
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S5 **GABLE END WALL DETAIL**
SCALE: N.T.S.



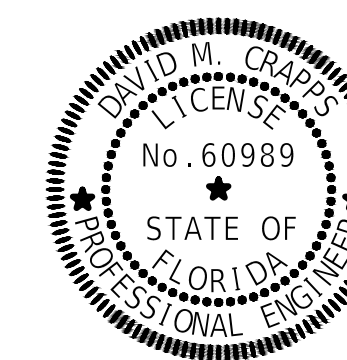
2
S5 **INTERIOR WALL BRACE DETAIL**
SCALE: N.T.S.



1A **ISOMETRIC**
SCALE: N.T.S.



1B **DETAIL**
SCALE: N.T.S.



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