

A1 FRONT UNIT – 3 BEDROOM – 2 BATH FLOOR PLAN
 SCALE: N.T.S. SECOND FLOOR TYPE "B" UNIT SHOWN

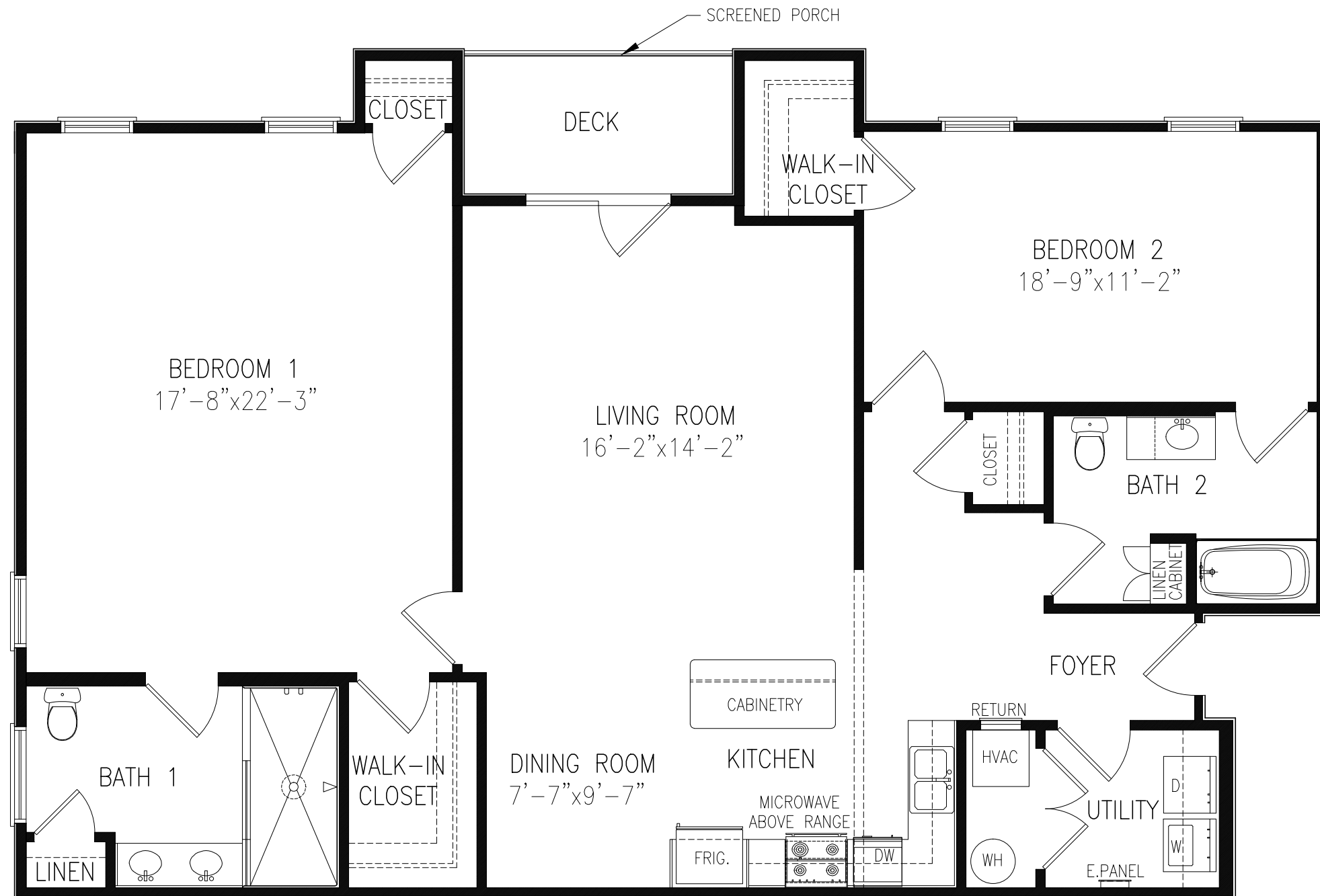
FRONT UNIT – TOTAL: 1,698 SQ.FT. – HEATED: 1,639 SQ.FT.

FAIRWAY POINTE AT ANDERSON CREEK CLUB
 THREE STORY – 10 UNIT APARTMENTS – TYPICAL FLOOR PLAN

DESIGNED TO BUILD, ANDREW W. PRIVETTE, AIA, 1920 FT. BRAGG ROAD, FAYETTEVILLE, NC 28303, PHONE (910) 485-8567



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A1

REAR UNIT – 2 BEDROOM – 2 BATH FLOOR PLAN

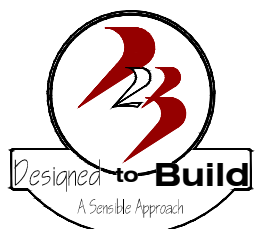
SCALE: N.T.S.

SECOND FLOOR TYPE "B" UNIT SHOWN

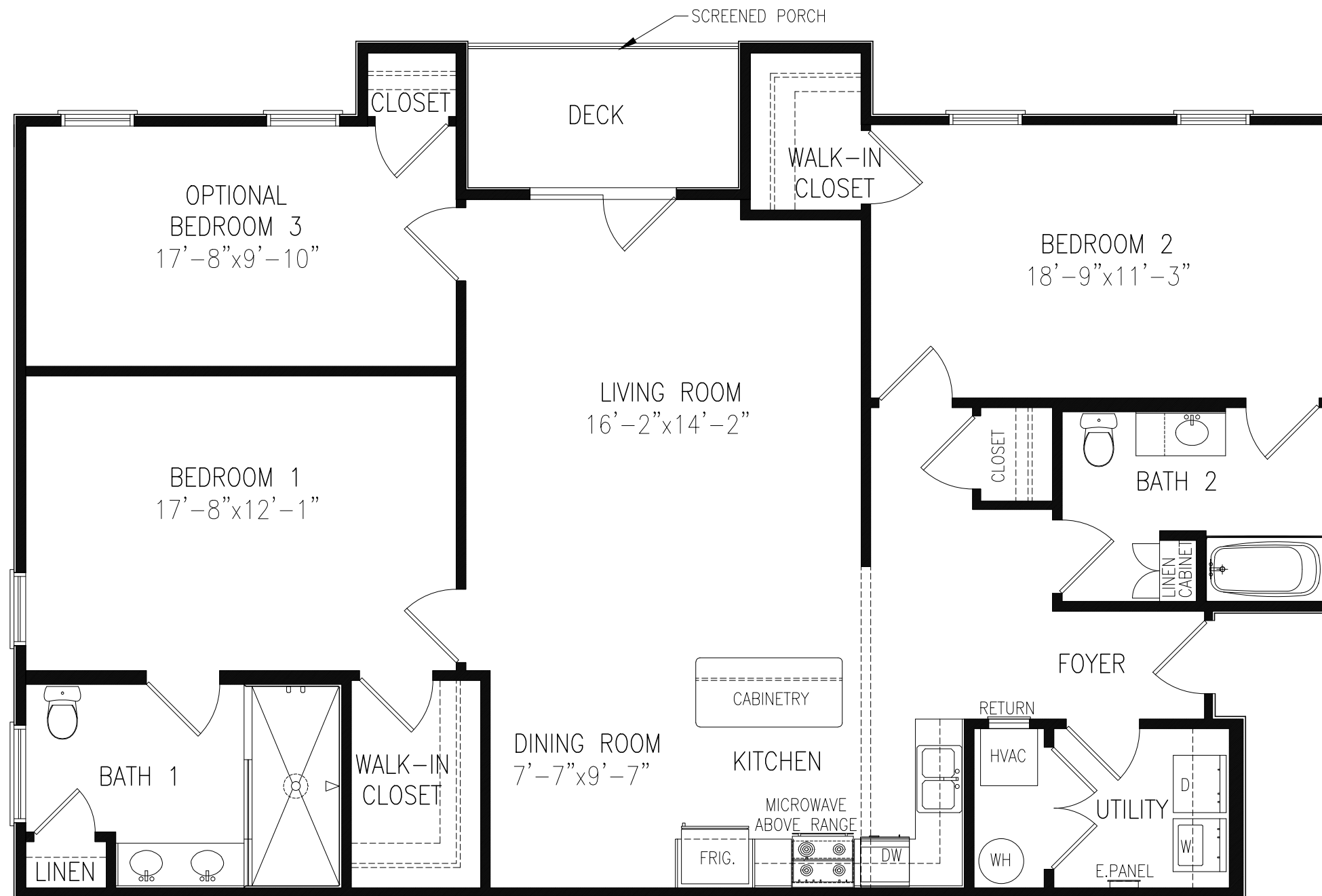
REAR UNIT TOTAL: 1,746 SQ.FT. – HEATED: 1,679 SQ.FT.

FAIRWAY POINTE AT ANDERSON CREEK CLUB
THREE STORY – 10 UNIT APARTMENTS – TYPICAL FLOOR PLAN

DESIGNED TO BUILD, ANDREW W. PRIVETTE, AIA, 1920 FT. BRAGG ROAD, FAYETTEVILLE, NC 28303, PHONE (910) 485-8567



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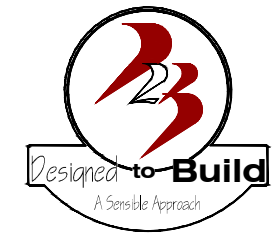


REAR UNIT TOTAL: 1,746 SQ.FT. – HEATED: 1,679 SQ.FT.

A1 REAR UNIT – 3 BEDROOM – 2 BATH FLOOR PLAN
 SCALE: N.T.S. SECOND FLOOR TYPE "B" UNIT SHOWN

FAIRWAY POINTE AT ANDERSON CREEK CLUB
 THREE STORY – 10 UNIT APARTMENTS – TYPICAL FLOOR PLAN

DESIGNED TO BUILD, ANDREW W. PRIVETTE, AIA, 1920 FT. BRAGG ROAD, FAYETTEVILLE, NC 28303, PHONE (910) 485-8567



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APPENDIX B 2018 NC BUILDING CODE SUMMARY

NAME OF PROJECT: FAIRWAY POINT APARTMENTS - 3 STORY BUILDING - 10 UNITS
 ADDRESS: ANDERSON CREEK CLUB - FAIRWAY POINT DRIVE, NORTH CAROLINA 28390
 OWNER/AUTHORIZED AGENT: BRYAN BENNETT - PHONE NUMBER 910-210-2125 - EMAIL BRYANBENNETT@HUFFFAMILYOFFICE.COM
 OWNED BY: CITY/COUNTY PRIVATE STATE
 CODE ENFORCEMENT JURISDICTION: CITY OF COUNTY OF HARNETT STATE

CONTACT: ANDREW W. PRIVETTE
 DESIGNER: FIRM NAME LICENSE PHONE E-MAIL
 ARCHITECTURAL: DESIGNED TO BUILD ANDREW W. PRIVETTE 3877 910-485-8567 ANDREW@DESIGNEDTOBUILD.COM
 CIVIL: BY OWNER UNDER SEPARATE COVER
 ELECTRICAL: COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINS@GMAIL.COM
 FIRE ALARM: COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINS@GMAIL.COM
 PLUMBING: COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINS@GMAIL.COM
 MECHANICAL: COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINS@GMAIL.COM
 SPRINKLER-STANDPIPE: BY OWNER UNDER SEPARATE COVER
 STRUCTURAL: KIRK M. EDMONDS, PE 12047 843-437-7151 EDMONDS.PE@GMAIL.COM
 RETAINING WALLS > 5' HIGH
 OTHER (TRUSS, PRECAST, PRE-ENGINEERED, INTERIOR DESIGN, ETC.)

2018 NC BUILDING CODE: NEW BUILDING SHELL/CORE IST TIME INTERIOR COMPLETION
 ADDITION PHASED CONSTRUCTION-SHELL CORE
 2018 EXISTING BUILDING CODE: PRESERVATIVE ALTERATION LEVEL II HISTORIC PROPERTY
 REPAIR ALTERATION LEVEL III CHANGE OF USE
 CHAPTER 14 ALTERATION LEVEL III
 CONSTRUCTED (DATE): CURRENT USE(S) (CH 3)
 RENOVATED (DATE): PROPOSED USE(S) (CH 3)

BUILDING DATA
 CONSTRUCTION TYPE: I-A I-B II-A II-B III-A III-B IV V-A V-B
 SPRINKLERS: NO PARTIAL NFPA 13 NFPA 13R NFPA 13D
 STANDPIPES: NO CLASS II III WET DRY
 PRIMARY FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES FIRE FLOW: 1500 GPM 2 HR
 GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3RD FLOOR	7,486	7,486	7,486
2ND FLOOR	7,486	7,486	7,486
MEZZANINE	-	-	-
1ST FLOOR	5,591	5,591	5,591
BASEMENT	-	-	-
TOTAL	20,559	20,559	20,559

ALLOWABLE AREA
 PRIMARY OCCUPANCY CLASSIFICATION(S):
 ASSEMBLY: A-1 A-2 A-3 A-4 A-5
 BUSINESS: B-1 B-2 B-3
 EDUCATIONAL: E-1 E-2
 FACTORY: F-1 MODERATE F-2 LOW
 HAZARDOUS: H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL: I-1 I-2 I-3
 I-1 CONDITION: I-1 AMBULATORY I-2 NONAMBULATORY
 I-2 CONDITION: I-1 I-2
 I-3 CONDITION: I-1 I-2 I-3 I-4 I-5
 I-4 CONDITION: I-1
 MERCANTILE: M-1 M-2 M-3 M-4
 RESIDENTIAL: R-1 R-2 R-3 R-4
 STORAGE: S-1 MODERATE S-2 LOW HIGH-FILLED REPAIR GARAGE
 UTILITY AND MISCELLANEOUS: U-1 U-2 U-3
 ACCESSORY OCCUPANCY CLASSIFICATION(S) N/A
 INCIDENTAL USES (TABLE 509) N/A
 SPECIAL USES (CH 4): 401 402 403 404 405 406 407 408 409 410
 411 412 413 414 415 416 417 419 420 421
 422 423 424 425 426 427 428 429 430
 SPECIAL PROVISIONS (CHS): 510.2 510.3 510.4 510.5 510.6 510.7 510.8 510.9
 MIXED OCCUPANCY: NO YES SEPARATION: EXEMPTION
 NON-SEPARATED USE (508.3)
 SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY. THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.
 ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B ≤ 1
 ALLOWABLE AREA OF OCCUPANCY A + ALLOWABLE AREA OF OCCUPANCY B ≤ 1.00

STORY NO. DESCRIPTION AND USE (A) (B) (C) (D)
 FIRST R-2 APARTMENT 5,591 7,000 5,250 12,250
 SECOND R-2 APARTMENT 7,486 7,000 5,250 12,250
 THIRD R-2 APARTMENT 7,486 7,000 5,250 12,250
 1 FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THIS:
 A PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH + ALL (F)
 B TOTAL BUILDING PERIMETER + ALL (F)
 C RATIO (F/F) + 1.0 (F/F)
 D MINIMUM WIDTH OF PUBLIC WAY + 30 (W)
 E PERCENT OF FRONTAGE INCREASE 1: 100 (F/F + 0.25) + W/50 + 75 (%)
 2 UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507
 3 MAXIMUM BUILDING AREA + TOTAL NUMBER OF STORIES IN THE BUILDING x D (MAXIMUM 3 STORIES) SECTION 506.2
 4 THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 425.3.1
 5 FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2

ALLOWABLE HEIGHT

BUILDING HEIGHT IN FEET	ALLOWABLE	SHOW ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	60	38'-0"	TABLE 506.3
BUILDING HEIGHT IN STORIES	3	3	TABLE 506.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING (REQUIRED)	RATING (PROVIDED)	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	SHEET NO. FOR RATED PENETRATION	SHEET NO. FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, RISERS AND TRUSSES BEARING WALLS, EXTERIOR	0	0	0				
NORTH	>50	0	0				
EAST	>50	0	0				
WEST	>50	0	0				
SOUTH	>50	0	0				
NONBEARING WALLS, EXTERIOR		N/A	N/A				
NORTH		N/A	N/A				
EAST		N/A	N/A				
WEST		N/A	N/A				
SOUTH		N/A	N/A				
BEARING WALLS, INTERIOR		0	0				
NONBEARING WALLS, INTERIOR		0	0				
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0	0				
FLOOR-CEILING ASSEMBLY	1 HR	1 HR	G-103	UL-L576			
COLUMNS SUPPORTING FLOOR	0	0					
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		1 HR	1 HR	G-104	UL-PS22		
ROOF-CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING ROOF		0	0				
SHAFT ENCLOSURES - EXIT		N/A	N/A				
SHAFT ENCLOSURES - OTHER		N/A	N/A				
CORRIDOR SEPARATION (T 1020.1)	1 HR	1 HR	G-105	UL-U356			
OCCUPANCY SEPARATION (T 508.4)		N/A	N/A				
PARTY FIRE WALL SEPARATION (S 706)		N/A	N/A				
SMOKE BARRIER SEPARATION (S 709.3)		N/A	N/A				
SMOKE PARTITION (S 709.3)		N/A	N/A				
TENANT/DWELLING UNIT SLEEPING UNIT SEPARATION	1 HR	1 HR	G-106	UL-U341			
INCIDENTAL USE SEPARATION		N/A	N/A				

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 20'	LP-5	75	28.2/2011.4
> 20'	LP-5	75	32.01/44.9+19.4
> 20'	LP-5	75	39.01/44.9+23.6
> 20'	LP-5	75	5/2/2011.2

LIFE SAFETY SYSTEM REQUIREMENTS
 EMERGENCY LIGHTING: YES NO
 EXIT SIGNS: YES NO
 FIRE ALARM: YES NO
 SMOKE DETECTION SYSTEMS: YES NO PARTIAL - SEE MECHANICAL
 CARBON MONOXIDE DETECTION: YES NO

LIFE SAFETY PLAN REQUIREMENTS
 LIFE SAFETY PLAN SHEET NUMBER G-102
 FIRE AND/OR SMOKE RELATED WALL LOCATION (CH 7)
 ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN)
 EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (S 705.8)
 OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (T 1004.1.1)
 OCCUPANT LOADS FOR EACH AREA
 EXIT ACCESS TRAVEL DISTANCES (1007)
 COMMON PATH OF TRAVEL DISTANCES (T 1006.2.1 & T 1006.3.2)(1)
 DEAD END LENGTHS (1008.4)
 CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
 MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (S 1005.3)
 ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
 SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF/CEILING STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
 LOCATION OF DOORS WITH PANIC HARDWARE (1001.1)(1)
 LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AMOUNT OF DELAY (1010.1.9.7)
 LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9)
 LOCATION OF DOORS WITH HOLD-OPEN DEVICES
 LOCATIONS OF EMERGENCY ESCAPE WINDOWS (1030)
 THE SQUARE FOOTAGE OF EACH FIRE AREA (1022)
 THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION (1.2 LUT 51)
 NOTE CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
10			FIRST FLR 4	4

ACCESSIBLE PARKING (1106)

LOT OR PARKING AREA	NUMBER OF PARKING SPACES REQUIRED	NUMBER OF ACCESSIBLE SPACES PROVIDED	TOTAL NUMBER ACCESSIBLE SPACES PROVIDED
2 PER BLDG			
TOTAL			

PLUMBING FIXTURE REQUIREMENTS

USE	WATERCLOSET	LAVATORY	SHOWER / TUB	KITCHEN SINK	AUTOMATIC CLOTHES WASHER CONNECTION
REQUIRED	R-1 PER DWELLING UNIT	1 PER DWELLING UNIT	1 PER DWELLING UNIT	1 PER DWELLING UNIT	1 PER DWELLING UNIT
PROVIDED	2 PER DWELLING UNIT	2 PER DWELLING UNIT	2 PER DWELLING UNIT	2 PER DWELLING UNIT	1 PER DWELLING UNIT

SPECIAL APPROVALS
 SPECIAL APPROVAL (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPL, DHS, ICC, ETC., DESCRIBE BELOW)
 NOT REQUIRED

ENERGY SUMMARY
 ENERGY REQUIREMENTS
 THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED.
 EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET, IF PERFORMANCE METHOD.
 STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VERSUS THE ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE (IF CHECKED, THE REMAINDER OF THIS SECTION IS NOT APPLICABLE.)
 EXEMPT BUILDING: PERFORMANCE CODE OR STATUTORY REFERENCE

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)
 ROOF (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: ASPHALT SHINGLES ON WOOD TRUSSES W/ G.W.B. CEILING
 U-VALUE OF TOTAL ASSEMBLY: 0.0241
 R-VALUE OF INSULATION: 38
 SKYLIGHTS IN EACH ASSEMBLY: N/A
 U-VALUE OF SKYLIGHT: N/A
 TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A

WALLS ABOVE GRADE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: VINYL SIDING OVER WOOD FRAMING W/ SHEATHING (EXTERIOR) & G.W.B. (INTERIOR)
 U-VALUE OF TOTAL ASSEMBLY: 0.62
 R-VALUE OF INSULATION: 15
 OPERINGS (WINDOWS OR DOORS WITH GLAZING)
 U-VALUE OF ASSEMBLY: 0.35
 SLAB HEAT GAIN COEFFICIENT: 0.30
 PROTECTION FACTOR: 0.0 ASSUMED
 DOOR R-VALUES: 0.35

WALLS BELOW GRADE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: N/A
 R-VALUE OF INSULATION: N/A

FLOORS (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: N/A
 R-VALUE OF INSULATION: N/A

SLAB ON GRADE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: CONCRETE SLAB ON GRADE WITH PERIMETER INSULATION
 U-VALUE OF TOTAL ASSEMBLY: 0.10
 R-VALUE OF INSULATION: 10
 HORIZONTAL/VERTICLE REQUIREMENT: N/A
 SLAB HEATED: NO

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LIST OF DRAWINGS

INFORMATIONAL
 G-101 COVER SHEET
 G-102 LIFE SAFETY PLAN & ACCESSIBLE GUIDELINES
 G-103 UL-L576 1HR FLOOR-CEILING ASSEMBLY
 G-104 UL-P522 1HR ROOF-CEILING ASSEMBLY
 G-105 UL-U356 1HR EXT. WALL ASSEMBLY
 G-106 UL-U341 1HR TENANT SEPARATION ASSEMBLY

STRUCTURAL
 S-1 NOTES & SPECIFICATIONS
 S-2 FOUNDATION PLAN
 S-3 SECOND FLOOR FRAMING PLAN
 S-4 THIRD FLOOR FRAMING PLAN
 S-5 ROOF FRAMING PLAN
 S-6 WALL SECTIONS & DETAILS
 S-7 STRUCTURAL DETAILS

ARCHITECTURAL
 A-101 FIRST FLOOR PLAN
 A-102 SECOND FLOOR PLAN
 A-103 THIRD FLOOR PLAN
 A-104 ROOF PLAN
 A-201 EXTERIOR ELEVATIONS
 A-301 WALL SECTIONS
 A-302 FOUNDATION SECTIONS
 A-303 BUILDING SECTION

ELECTRICAL
 E-1 ELECTRICAL FIRST FLOOR PLAN
 E-2 LIGHTING FIRST FLOOR PLAN & SCHEDULES
 E-3 ELECTRICAL SECOND FLOOR PLAN
 E-4 LIGHTING SECOND FLOOR PLAN
 E-5 ELECTRICAL THIRD FLOOR PLAN
 E-6 LIGHTING THIRD FLOOR PLAN
 E-7 ELECTRICAL NOTES, PANELS & RISERS

FIRE ALARM
 FA-1 FIRE ALARM FIRST FLOOR PLAN
 FA-2 FIRE ALARM SECOND FLOOR PLAN
 FA-3 FIRE ALARM THIRD FLOOR PLAN
 FA-4 FIRE ALARM RISERS & DETAILS

MECHANICAL
 M-1 HVAC FIRST FLOOR PLAN & SCHEDULES
 M-2 HVAC SECOND FLOOR PLAN
 M-3 HVAC THIRD FLOOR PLAN
 M-4 HVAC NOTES, DETAILS & SPECIFICATIONS

PLUMBING
 P-1 WATER FIRST FLOOR PLAN & NOTES
 P-2 WASTE FIRST FLOOR PLAN & SCHEDULES
 P-3 WATER SECOND FLOOR PLAN & SCHEDULES
 P-4 WASTE SECOND FLOOR PLAN & SCHEDULES
 P-5 WATER THIRD FLOOR PLAN & SCHEDULES
 P-6 WASTE THIRD FLOOR PLAN & RISERS

FAIRWAY POINT AT ANDERSON CREEK CLUB THREE-STORY, TEN-UNIT BUILDING 188 GALLERY DRIVE SPRING LAKE, NORTH CAROLINA 28390



ANDREW W. PRIVETTE, ARCHITECT

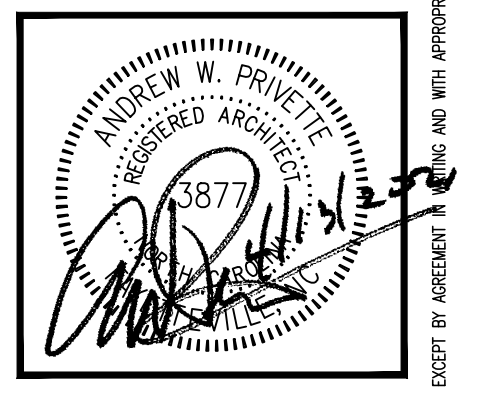
1920 FT. BRAGG ROAD - FAYETTEVILLE, N.C. 28303 - (910) 485-8567



APRIL 13, 2021
 NOVEMBER 30, 2022

Building # 12 (1)

ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com



FAIRWAY POINT at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING
 SPRING LAKE, NORTH CAROLINA 28390

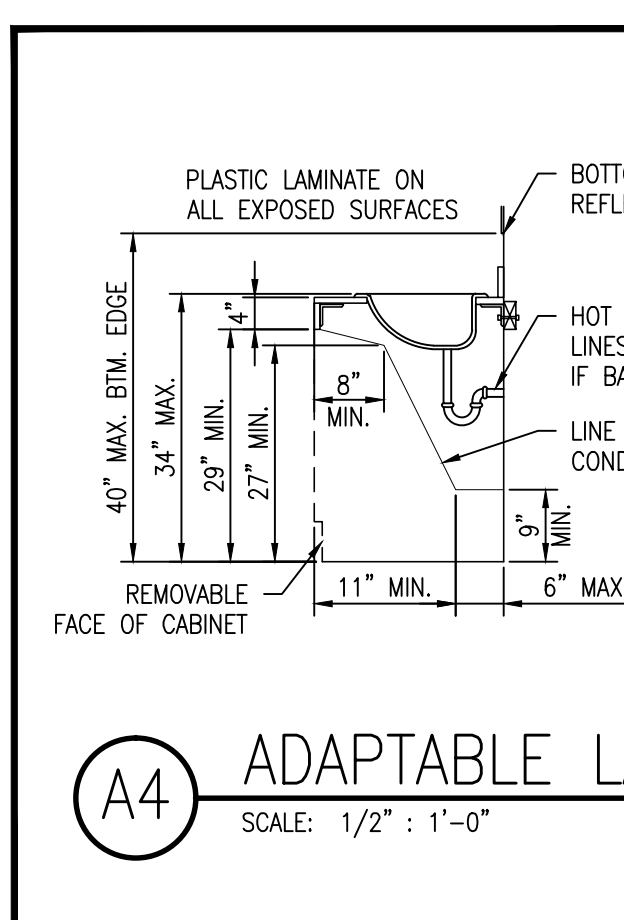
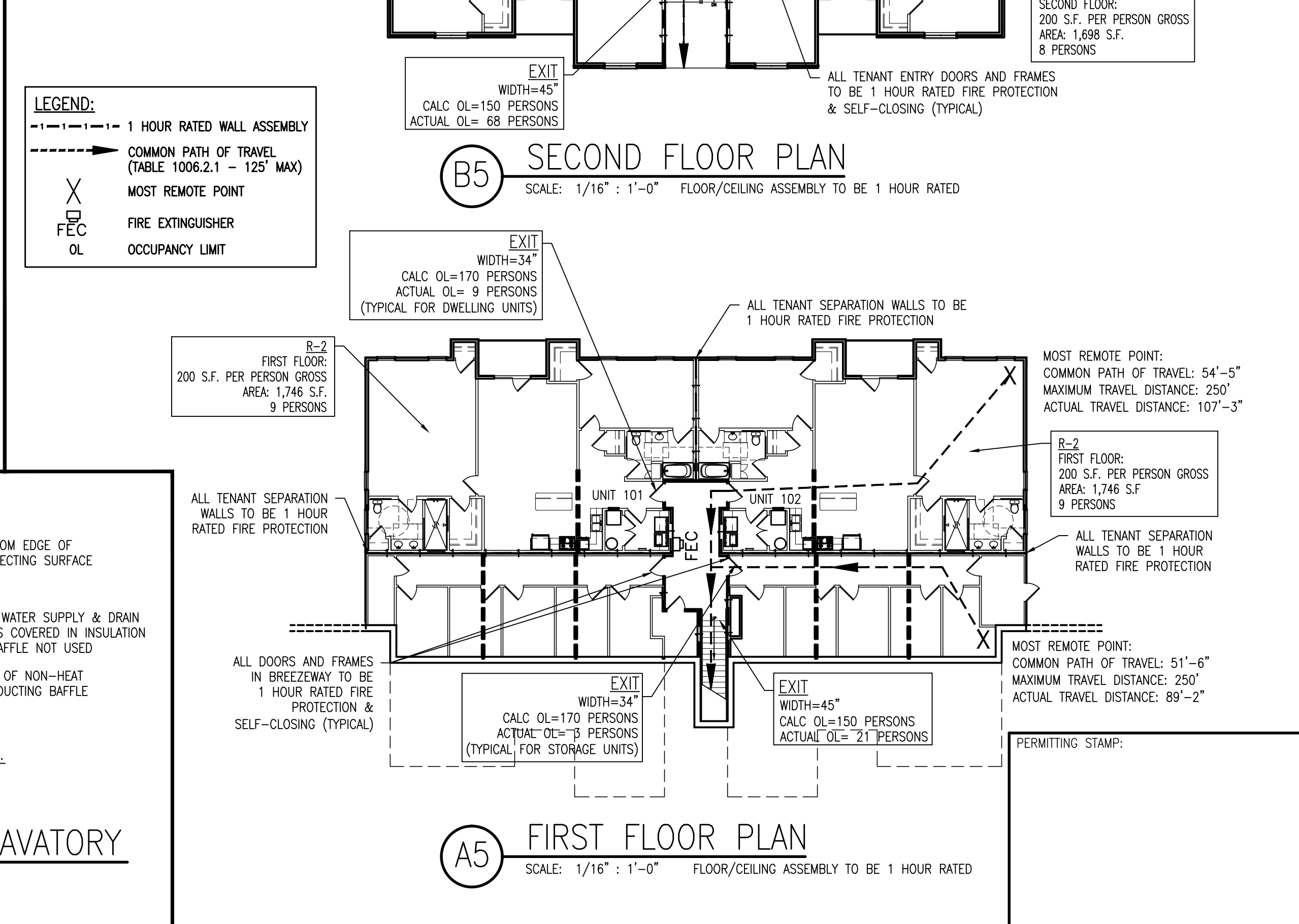
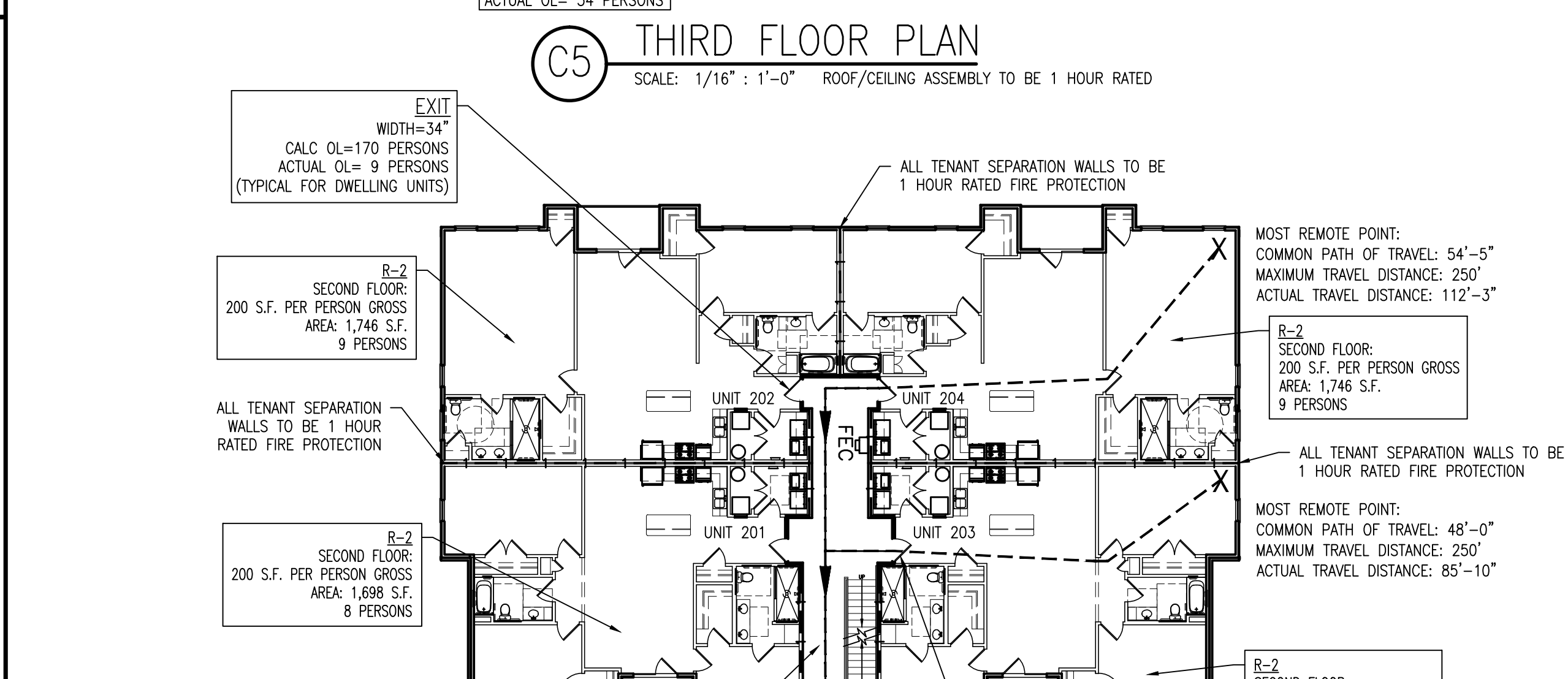
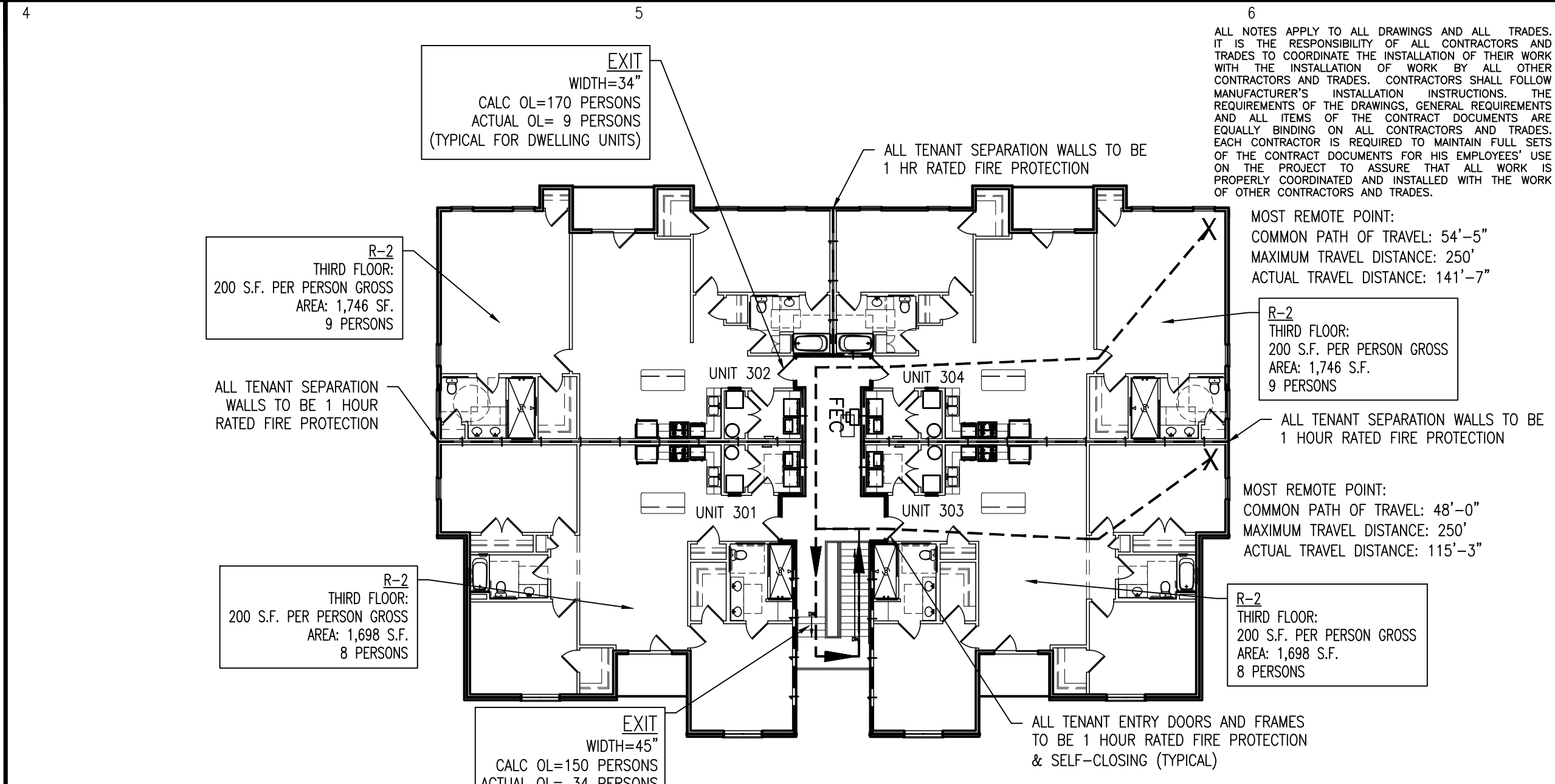
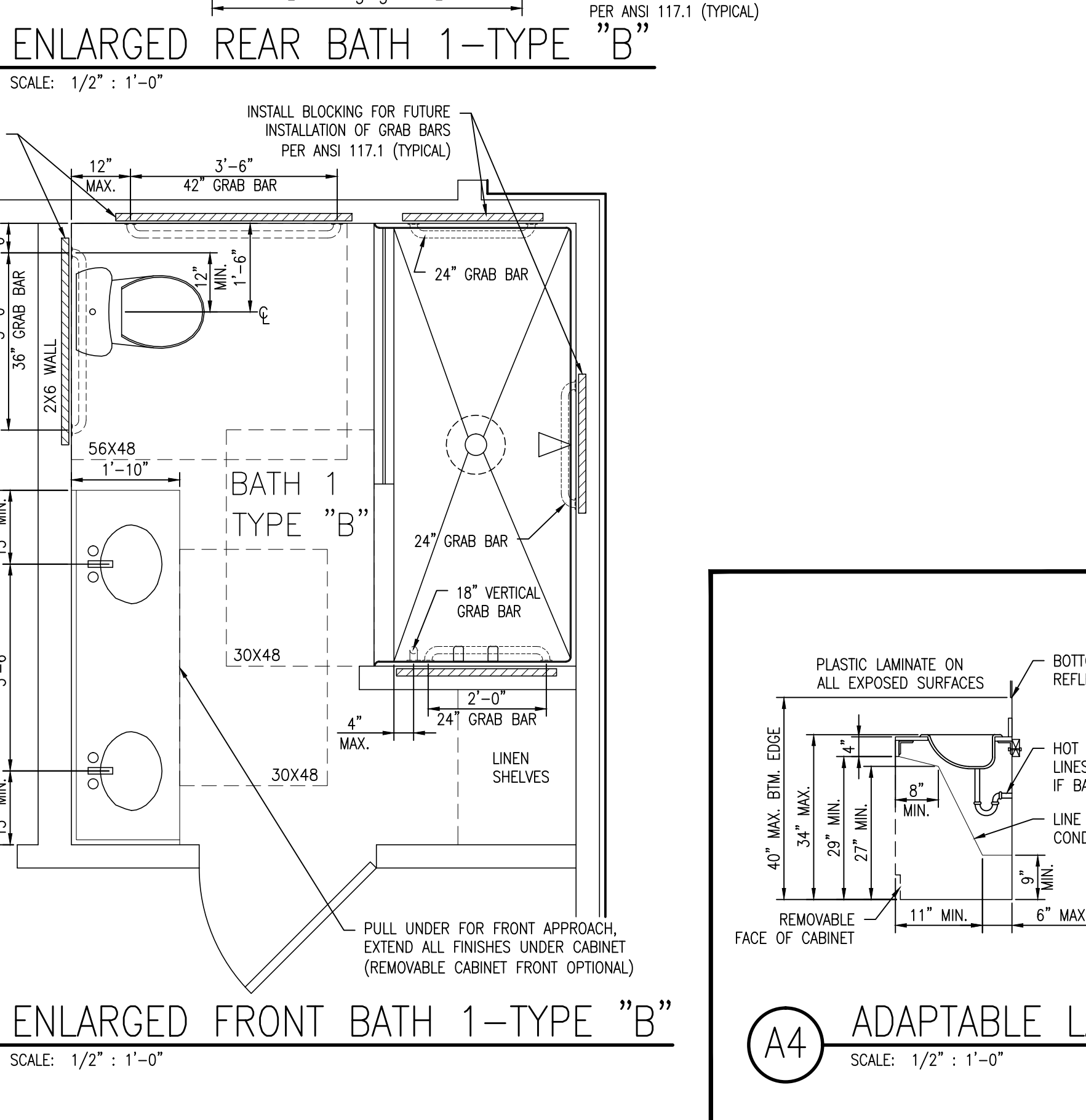
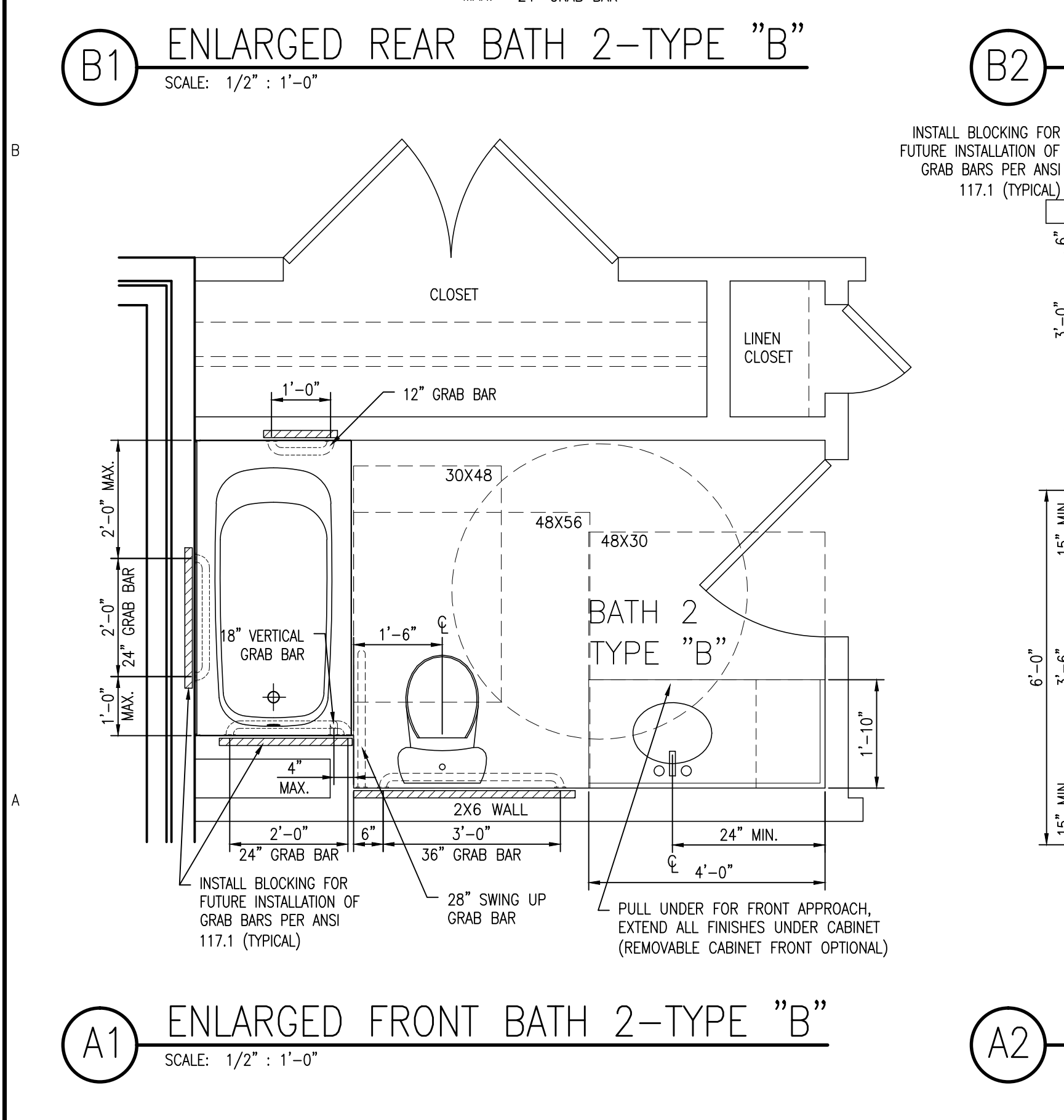
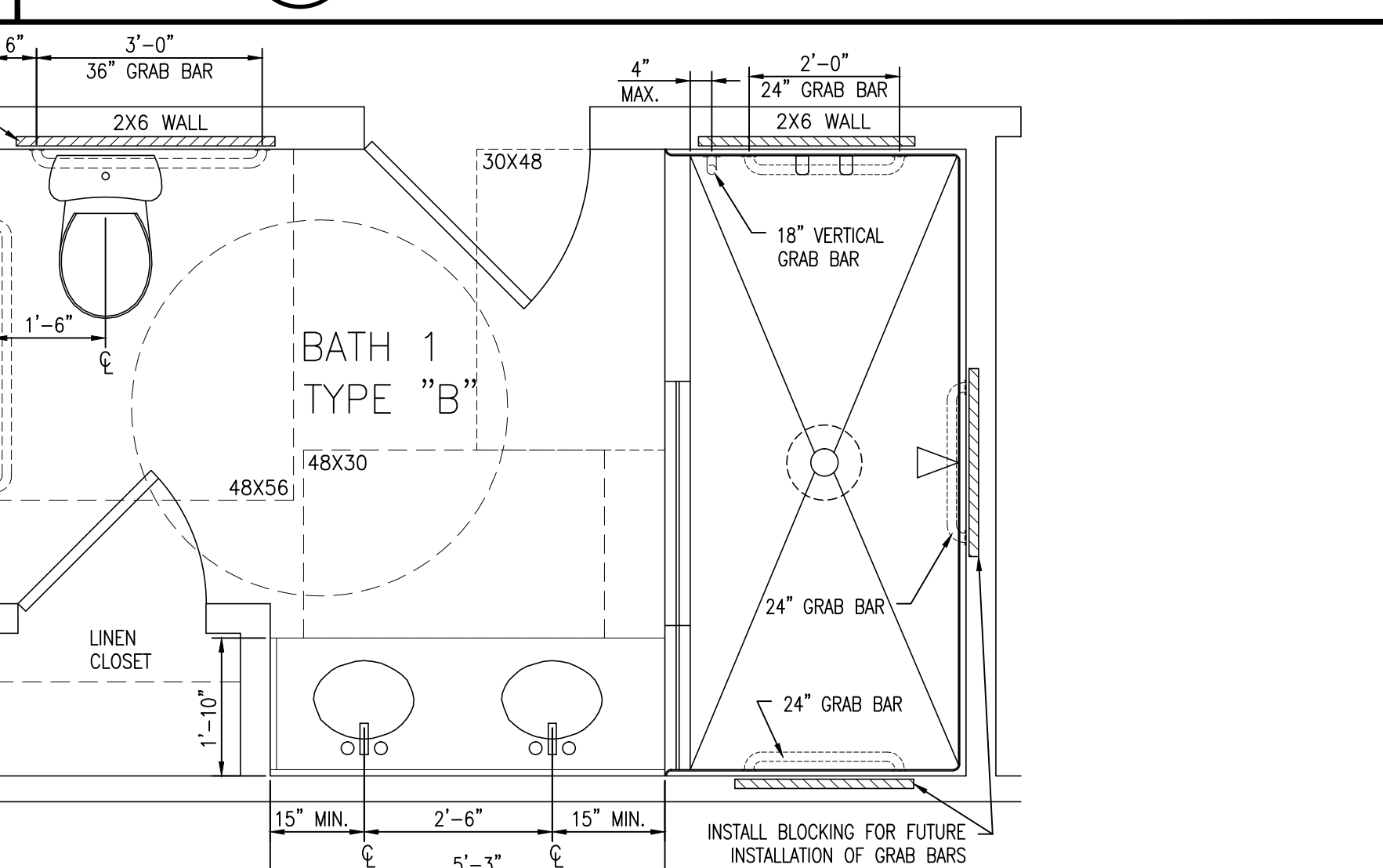
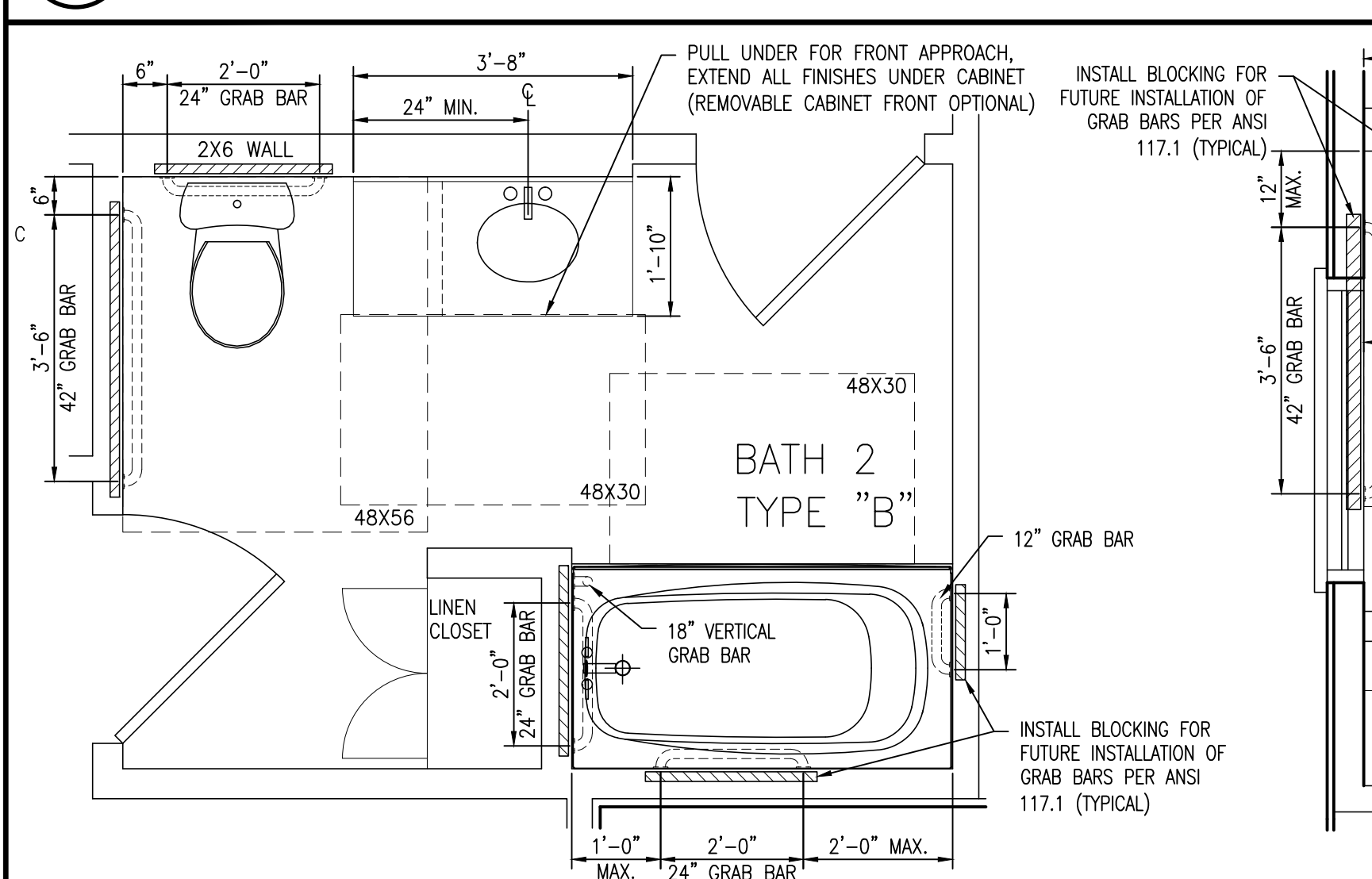
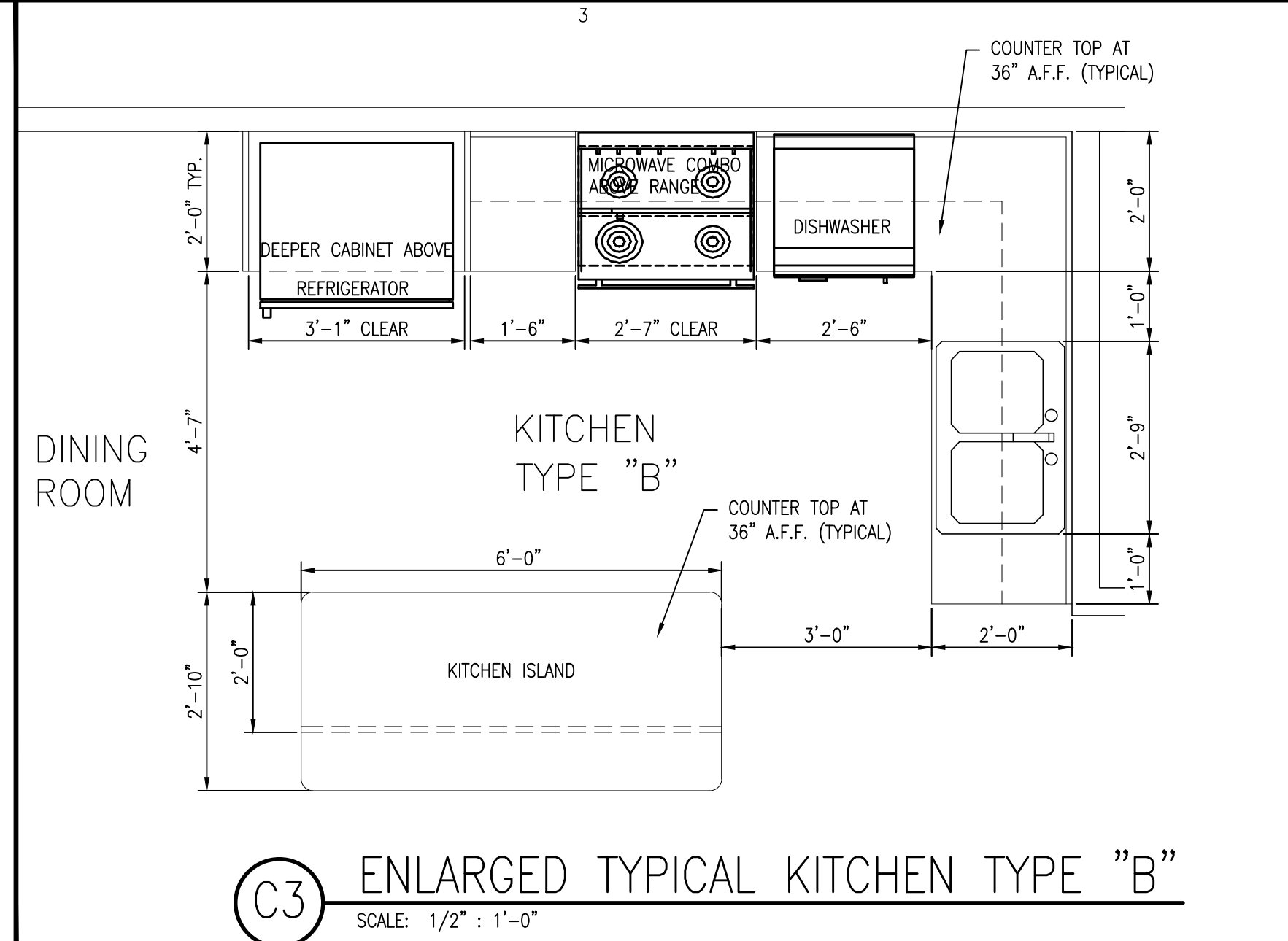
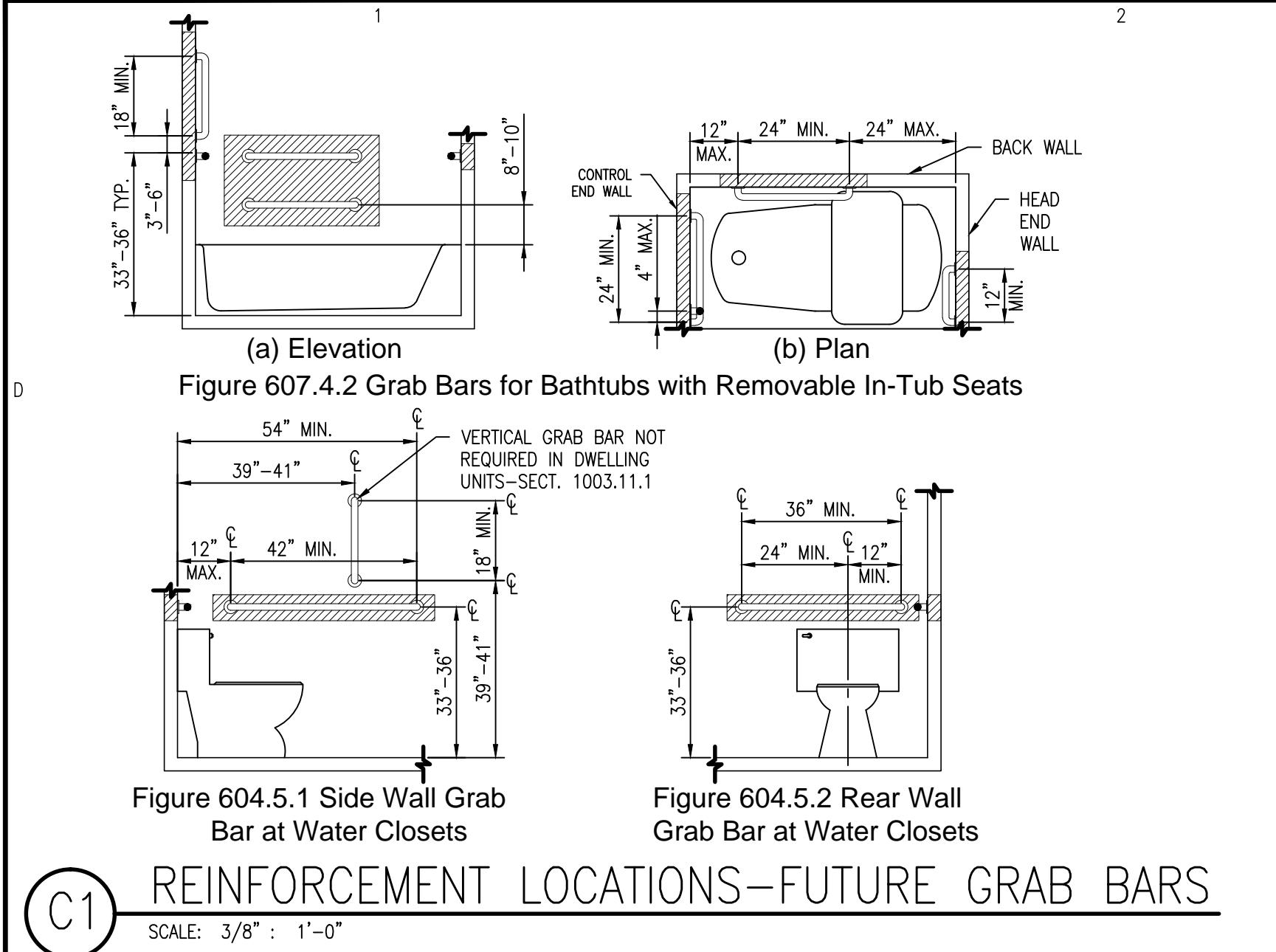
NO.	DATE	DESCRIPTION	BY	CHK
1	11-30-2022	DESIGNED TO BUILD	AM	
2	11-30-2022	DESIGNED TO BUILD	AM	
3	11-30-2022	DESIGNED TO BUILD	AM	
4	11-30-2022	DESIGNED TO BUILD	AM	
5	11-30-2022	DESIGNED TO BUILD	AM	

JOB CODE: Z0FAIRWAY-10
 DRAWN BY: S.S.TOPE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
 COVER SHEET &
 NC BUILDING
 CODE SUMMARY
 UPDATED 11-30-2022

G-101
 SHEET 1 OF 6

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER. ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION. COPYRIGHT © ALL RIGHTS RESERVED BY DESIGNED TO BUILD. NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION.



Designed to Build
 A Smarter Approach

ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com

ANDREW W. PRIVETTE, AIA
 REGISTERED ARCHITECT
 1877

FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING —
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	MARK	DATE	DESCRIPTION	MARK	DATE	DESCRIPTION

JOB CODE: 20FAIRWAY-10
 DRAWN BY: S.S.TOPE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
LIFE SAFETY PLAN & ACCESSIBLE GUIDELINES

G-102
 SHEET 2 OF 6

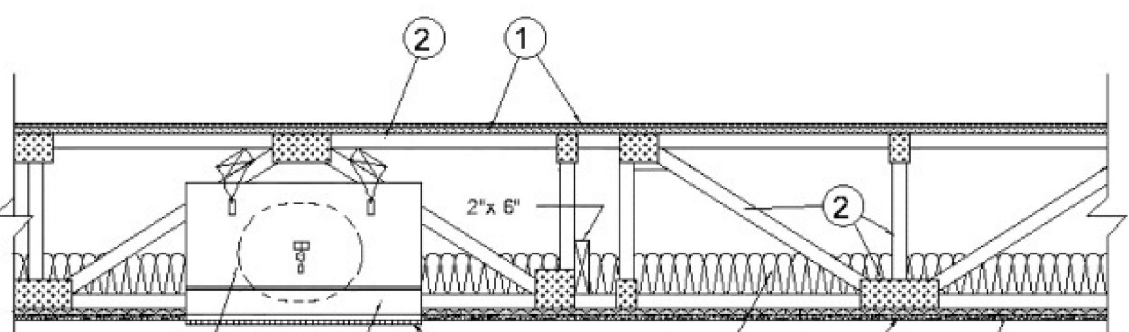
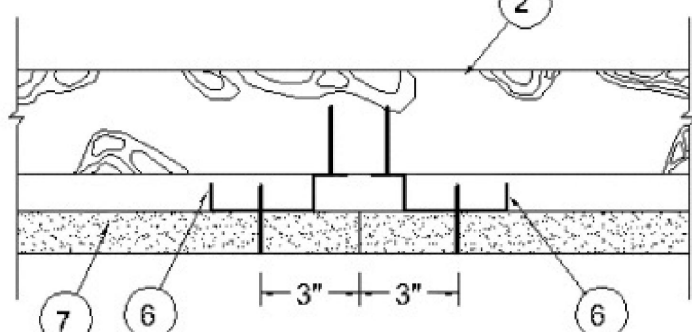
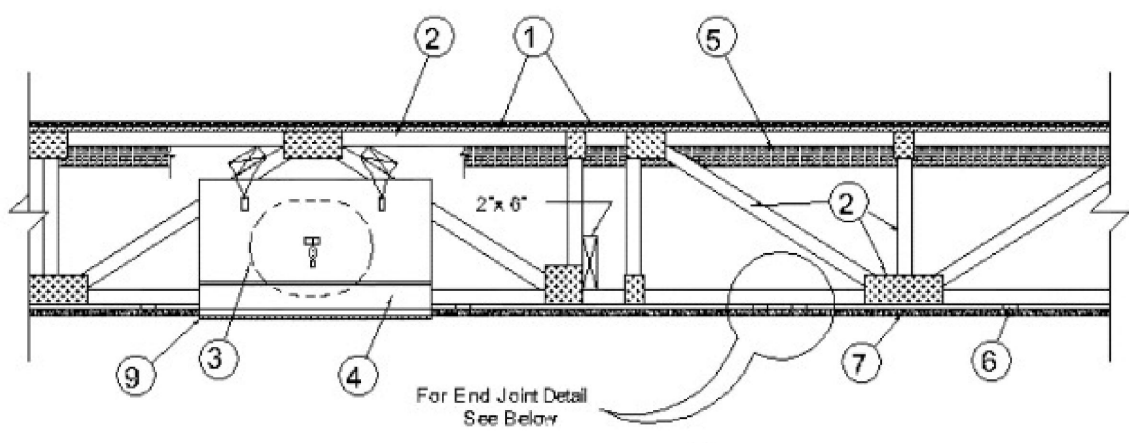
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Design No. L576

October 10, 2016

Unrestrained Assembly Rating - 1 Hr
Fire Rating - 25 Min (See Items 5 and 5A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used - See Guide BXUJ or BXUVZ.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Alternate Insulation Placement

1. Flooring System - The flooring system shall consist of one of the following:

System No. 1

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Floor - Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 2

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Floor Mat Materials* - Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

ECORE INTERNATIONAL INC - Type QT50-4002
HACKER INDUSTRIES INC - Type Hacker Sound-Mat.

Alternate Floor Mat Materials* - (Optional) - Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.
ECORE INTERNATIONAL INC - Type QT76m 3006-3
HACKER INDUSTRIES INC - Type Hacker Sound-Mat II.

Alternate Floor Mat Materials* - (Optional) - Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).
HACKER INDUSTRIES INC - FIRM-FILL SCM 125

Alternate Floor Mat Materials* - (Optional) - Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).
HACKER INDUSTRIES INC - Type FIRM-FILL SCM 250, Quiet Qui 55/025

Alternate Floor Mat Materials* - (Optional) - Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).
HACKER INDUSTRIES INC - Type FIRM-FILL SCM 400, Quiet Qui 60/040

Alternate Floor Mat Materials* - (Optional) - Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).
HACKER INDUSTRIES INC - Type FIRM-FILL SCM 750, Quiet Qui 65/075

Metal Lath - (Optional) - For use with 3/8 in. or 10 mm floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a min 1-1/4 in. over the floor mat.
Finish Flooring - Floor Topping Mixture* - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.3 cu ft of sand.
HACKER INDUSTRIES INC - Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 3

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Floor - Mineral and Fiber Board* - Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in., with adjacent sub-floor joints.
HOMASOTE CO - Type 440-32 Mineral and Fiber Board

System No. 4

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Floor Mat Materials* - (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor.
UNITED STATES GYPSUM CO - LEVELROCK® Brand Sound Reduction Board

Alternate Floor Mat Materials* - (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
UNITED STATES GYPSUM CO - LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* - (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor.
GRASSWORX L L C - Type SC50

Finish Flooring - Floor Topping Mixture* - Min 1/2 in. thickness of floor topping mixture having a min compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO - Type LXR

System No. 5

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Floor Mat Materials* - (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor.
UNITED STATES GYPSUM CO - LEVELROCK® Brand Sound Reduction Board

Alternate Floor Mat Materials* - (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor.
UNITED STATES GYPSUM CO - LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* - (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor.
GRASSWORX L L C - Type SC50

Finish Flooring - Floor Topping Mixture* - Min 1/2 or in. thickness of floor topping mixture having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO - LEVELROCK® Brand 3500, Brand Commercial RH

System No. 6

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Floor Mat Materials* - (Optional) - Min 3/8 in. to max 3/4 in. thick floor mat material loose laid over the subfloor.
UNITED STATES GYPSUM CO - Levelrock Brand Sound Reduction Board

Alternate Floor Mat Materials* - (Optional) - Nom 1/4 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.
UNITED STATES GYPSUM CO - LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* - (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor.
GRASSWORX L L C - Type SC50

Finish Flooring - Floor Topping Mixture* - Min 1/2 in. thickness of floor topping mixture having a min compressive strength of 3000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO - LEVELROCK® Brand 3500, Brand Commercial RH

System No. 7

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring - Floor Topping Mixture* - Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
ALLIED CUSTOM GYPSUM - AccuCrete, AccuRadiant, AccuLevel 640 and AccuLevel 5030.

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
ALLIED CUSTOM GYPSUM - Type AccuQuiet P80, Type AccuQuiet C40, AccuQuiet D13, and Type AccuQuiet-18.

System No. 8

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.
Finish Flooring* - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor and Roof-Topping Mixtures (CCOX) category for names of Classifying Companies.

Floor Mat Materials* - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 55/025 and Quiet Qui 55/025 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 60/040 and Quiet Qui 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 65/075, Quiet Qui 65/075 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 52/013 and Quiet Qui 52/013 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom surface of the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC - Quiet Qui 55/025 MT and Quiet Qui 55/025 N MT

System No. 9

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring - Floor Topping Mixture* - Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength to be 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
MAXXON CORP - Type D-C, GC, GC 2000, L-R, T-F, CT, SS

RAPID FLOOR SYSTEMS - Type RF, RFP, RFR, RFR, Ortecrete

Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
MAXXON CORP - Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Ekonasonic 9110, Ekonasonic 9110 HP, Acousti-Mat 3, Acousti-Mat 3 HP, Acousti-Mat LP, Acousti-Mat LP-R, Acousti-Mat LP-R, Acousti-Mat SD

Floor Mat Reinforcement - (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material.
MAXXON CORP - Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

Metal Lath - (For use with or as an alternate to Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)) - 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material. Floor topping thickness shall be min 1-1/2 in.

System No. 10

Deleted -
System No. 11

Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring - Floor Topping Mixture* - Min 3/4 in. thickness of floor topping having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC - GSL-M34, GSL-K2.6 and GSL-RH.

Floor Mat Materials* - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 55/025 and Quiet Qui 55/025 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 60/040 and Quiet Qui 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 65/075, Quiet Qui 65/075 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC - Type Quiet Qui 52/013 and Quiet Qui 52/013 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom surface of the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC - Quiet Qui 55/025 MT and Quiet Qui 55/025 N MT

2. Trusses - Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper shall be installed in accordance with the manufacturer's installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.

3. Air Duct - Any UL Class 0 or Class 1 Flexible air duct installed in accordance with the instructions provided by the damper manufacturer.
4. Ceiling Damper* - For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. Max square size shall be 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq ft. in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS - Model RD-521
POTTORFF - Model CFD-521.

4a. Alternate Ceiling Damper* - Max nom area shall be 196 sq ft. Max square size shall be 14 in. by 14 in. Rectangular sizes not to exceed 196 sq ft. in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS - Model RD-521-BT
POTTORFF - Model CFD-521-BT.

4b. Alternate Ceiling Damper* - For use with min 18 in. deep trusses. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
POTTORFF - Models CFD-521-IP, CFD-521-NP

4c. Alternate Ceiling Damper* - Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC - Models CRD2, GBR-CRD, ITG-CRD

4d. Alternate Ceiling Damper* - Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
DELTA ELECTRONICS INC - Model SIG-CRD

4e. Alternate Ceiling Damper* - Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA - Model PC-RD050C

4f. Alternate Ceiling Damper* - Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C - Model RDPFU

4g. Alternate Ceiling Damper* - Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 49 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 9) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C - Models RD11 and RDH

5. Batts and Blankets* - Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6A) or furring channels (Item 6B) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to wood trusses at 12 in. OC. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6B) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels (or Steel Framing Members) and subfloor material. The finished rating has only been determined when the insulation is secured to the subflooring.

5A. Fiber, Sprayed - (Dry Dense Packed 100% Borate Formulation) - As an alternate to Item 5 - The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 5A (Fiber Sprayed, Dry Dense Packed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B.
Last Updated on 2016-10-10

5B. Fiber, Sprayed - (Loose Fill 100% Borate Formulation) - As an alternate to Items 5 and 5A - The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft³ and a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. When Item 5B (Fiber Sprayed, Loose Fill) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B.

6. Furring Channels - Resilient channels formed of 25 MSG thick galv steel, spaced 16 in. OC perpendicular to trusses. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type 5 bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6A. Steel Framing Members* - (Not Shown) - As an alternate to Item 6.

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type 5 bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as described in Item 7. When Steel Framing Members (Item 6A) are used, resilient channels are overlapped 6" and screwed with four No. 8 x 1-1/2 self-drilling screws (2 per side clip, and 4 in. from overlap edge). Additional clips are required to hold the Gypsum Batts joints and side joints as described in Item 7.

b. Steel Framing Members* - Used to attach furring channels (Item a) to the trusses (Item 2). Clips spaced 48 in. OC, and secured to alternating trusses with No. 8 x 2-1/2 in. course drywall screw through the center grommet. When insulation (Item 5) is applied over the resilient channel/gypsum panel ceiling membrane the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. R51C-1 clip for use with 2-9/16 in. wide furring channels. R51C-1 (2.25) clip for use with 2-23/32 in. wide furring channels. Adjoining channels overlapped as described in Item 6. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Not evaluated for use with Items 5A or 5B.

c. Cross Channels - Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross channels spaced 16 in. OC.

d. Wall Angle or Channel - Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing members and for screw-attachment of the gypsum panel.
CGC INC - Type DGL or RX

USG INTERIORS LLC - Type DGL or RX

6B. Alternate Steel Framing Members - (Not Shown) - As an alternate to Items 6 and 6A, main runners, cross tees, cross channels and wall angle as listed below.

a. Main Runners - Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.

b. Cross Tees - Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross tees spaced 12 in. OC. Additional cross tees or cross channels used in conjunction with Item 6. Ends of adjoining channels overlapped 6 in. and channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. Cross Channels - Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross channels spaced 16 in. OC.

d. Wall Angle or Channel - Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing members and for screw-attachment of the gypsum panel.
CGC INC - Type DGL or RX

USG INTERIORS LLC - Type DGL or RX

6C. Steel Framing Members* - (Not Shown) - As an alternate to Item 6.

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type 5 bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as described in Item 7. When Steel Framing Members (Item 6A) are used, resilient channels are overlapped 6" and screwed with four No. 8 x 1-1/2 self-drilling screws (2 per side clip, and 4 in. from overlap edge). Additional clips are required to hold the Gypsum Batts joints and side joints as described in Item 7.

b. Steel Framing Members* - Used to attach furring channels (Item a) to the trusses (Item 2). Clips spaced 48 in. OC, and secured to alternating trusses with No. 8 x 2-1/2 in. course drywall screw through the center grommet. When insulation (Item 5) is applied over the resilient channel/gypsum panel ceiling membrane the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. R51C-1 clip for use with 2-9/16 in. wide furring channels. R51C-1 (2.25) clip for use with 2-23/32 in. wide furring channels. Adjoining channels overlapped as described in Item 6. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Not evaluated for use with Items 5A or 5B.

c. Cross Channels - Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross channels spaced 16 in. OC.

d. Wall Angle or Channel - Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing members and for screw-attachment of the gypsum panel.
CGC INC - Type DGL or RX

USG INTERIORS LLC - Type DGL or RX

6A. Steel Framing Members* - (Not Shown) - As an alternate to Item 6.

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type 5 bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as described in Item 7. When Steel Framing Members (Item 6A) are used, resilient channels are overlapped 6" and screwed with four No. 8 x 1-1/2 self-drilling screws (2 per side clip, and 4 in. from overlap edge). Additional clips are required to hold the Gypsum Batts joints and side joints as described in Item 7.

b. Steel Framing Members* - Used to attach furring channels (Item a) to the trusses (Item 2). Clips spaced 48 in. OC, and secured to alternating trusses with No. 8 x 2-1/2 in. course drywall screw through the center grommet. When insulation (Item 5) is applied over the resilient channel/gypsum panel ceiling membrane the clip spacing shall be reduced to 12 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. R51C-1 clip for use with 2-9/16 in. wide furring channels. R51C-1 (2.25) clip for use with 2-23/32 in. wide furring channels. Adjoining channels overlapped as described in Item 6. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. Not evaluated for use with Items 5A or 5B.

c. Cross Channels - Nom 4 or 12 ft long, installed perpendicular to main runners, spaced 16 in. OC. When Batts and Blankets* (Item 5) are used, cross channels spaced 16 in. OC.

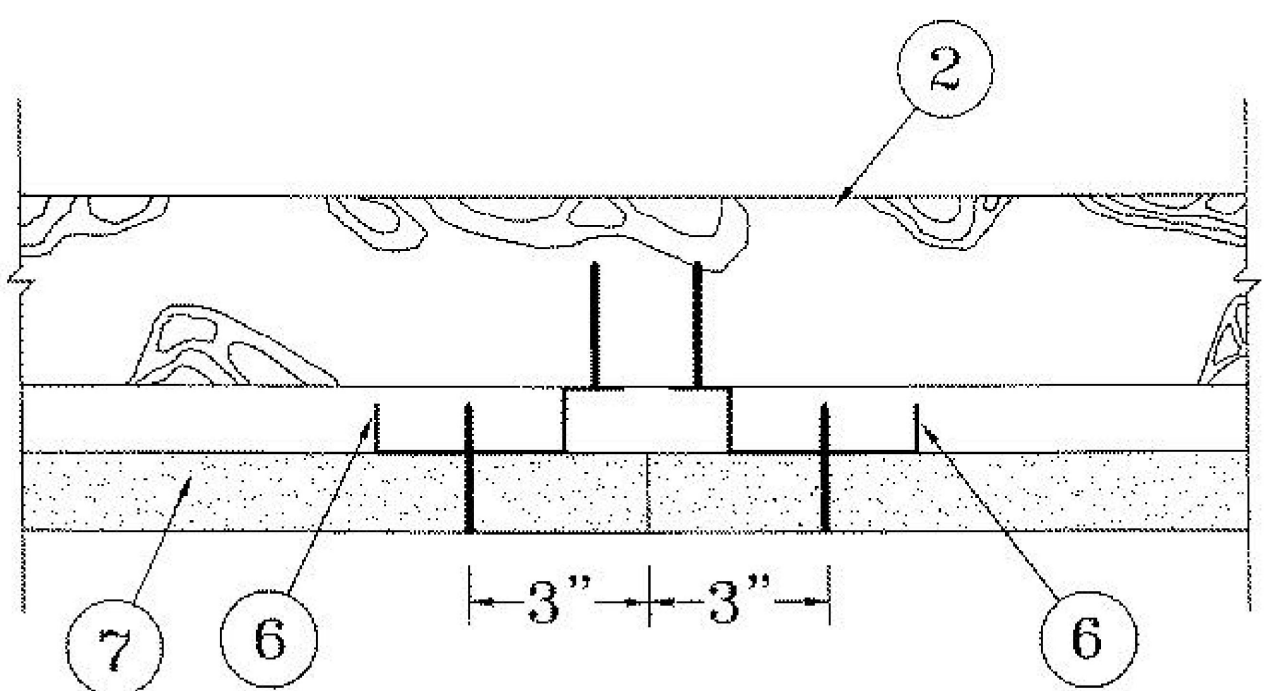
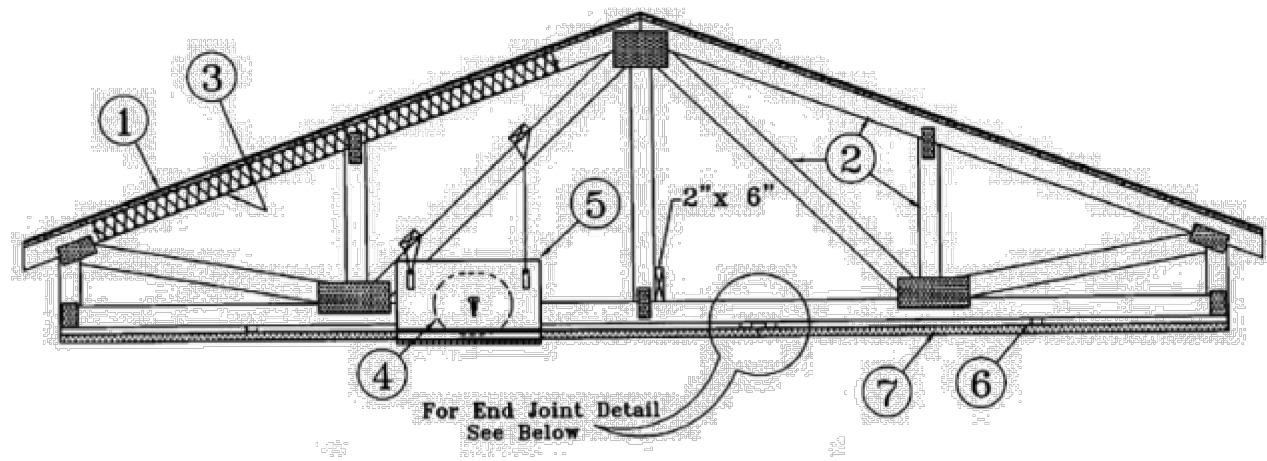
d. Wall Angle or Channel - Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep

Design No. P522

September 20, 2016

Unrestrained Assembly Rating — 1 Hr
Finish Rating — 25 Min (See Items 3 or 3A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXLUV or BXLUV2.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Alternate Insulation Placement

1. Roofing System — Any UL Class A, B or C Roofing System (TGFR) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. Trusses — Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in., if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. Batt and Blankets — (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When Steel Framing Members (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6A) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. Fiber, Sprayed — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft³, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is used with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application methods: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft³ over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft² behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.

U.S. GREENFIBER L.L.C. — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4. Air Duct — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Ceiling Damper — Max nom area, 324 sq in. Max square size, 18 in. by 18 in. Rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS — Model RD-521
POTTORFF — Model CFD-521

5A. Alternate Ceiling Damper — Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.

C&S AIR PRODUCTS — Model RD-521-BT
POTTORFF — Model CFD-521-BT

5B. Alternate Ceiling Damper — Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. Alternate Ceiling Damper — Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5D. Alternate Ceiling Damper — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 10-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Model SIG-CRD

5E. Alternate Ceiling Damper — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

5F. Alternate Ceiling Damper — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L.L.C. — Model RDFU

5G. Alternate Ceiling Damper — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L.L.C. — Models RD01 & RDH

6. Furring Channels — Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. Steel Framing Members* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSC-1 and RSC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSC-V and RSC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSC-1 and RSC-V clips for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) and RSC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PAC INTERNATIONAL L.L.C. — Types RSC-1, RSC-V, RSC-1 (2.75), RSC-V (2.75).

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A.

a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batt and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. Cold Rolled Channels — 1-1/2 in. by 1/2 in. by 1/2 in. formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses. Friction-fitted to the channel cavity on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at the Steel Framing Member (Item 6Bd) location.

d. Steel Framing Members* — Hangers spaced 48 in. OC, max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.

KINETICS NOISE CONTROL INC — Type ICV.

6C. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A and 6B.

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 24 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Aa. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (24 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PLTICE INC — Type Genie Clip

6D. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.

a. Main runners — Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 1/2 SWG galv steel wire. Wires located a max of 48 in. OC.

b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum board to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. Alternate Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 24" OC and secured to the bottom of the trusses with one No. 10 x 2-1/2 Coarse Drywall Screw through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and screwed with four No. 8 x 1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Additional clips are required to hold the Gypsum Butt joints and side joints as described in Item 7.

STUCCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 through 6E. Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

USG INTERIORS LLC — Type DGL or RX

7. Gypsum Board* — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane.

When Steel Framing Members* (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in., on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

When Steel Framing Members (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the furring channels and offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base layer.

When Steel Framing Members (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in., on each end, spaced approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joints, approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring channels shall be attached to underside of the joint with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of the approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

When alternate Steel Framing Members* (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between the main furring channels. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 2-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the joint.

The side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL ZAWAW DRYWALL L.L.C SFZ — Type C

USG MEXICO S A DE CV — Types C, IP-X2, IPC-AR

7A. Gypsum Board* — For use with Steel Framing Members (Item 6D) when Batt and Blankets* (Item 3) are not used — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midpoint of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at staggered end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered min 2 ft. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with Steel Framing Members* (Item 6D) when Batt and Blankets* (Item 3) are used — Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

CGC INC — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL ZAWAW DRYWALL L.L.C SFZ — Type C

USG MEXICO S A DE CV — Type C or IP-X2

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. Alternate Ceiling Membrane — Not Shown.

9. Netting — Fibrous, woven netting material fastened to underside of each joint with staples, with side joints overlapped.

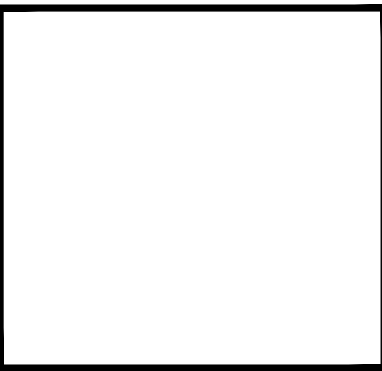
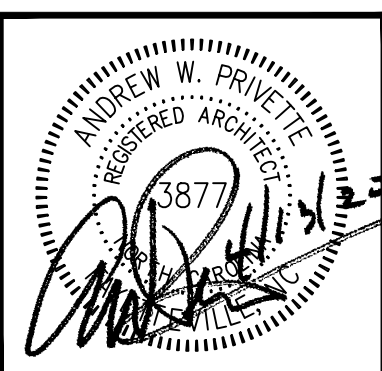
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-09-20

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.



ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

Table with columns for PERMIT, DATE, MARK, and CHECK. Includes a row for 'DESIGNED TO BUILD'.

JOB CODE: Z0FAIRWAY-10
DRAWN BY: S.S.TOPE
CHECKED BY: A. PRIVETTE
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SHEET TITLE:
FIRE RATED
UL-P522 ROOF-
CEILING ASSEMBLY

G-104
SHEET 4 OF 6

UL P522 - 1HR ROOF-CEILING ASSEMBLY
SCALE: NTS

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER. ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION. COPYRIGHT © ALL RIGHTS RESERVED BY DESIGNED TO BUILD. NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

Design No. U356

July 11, 2018

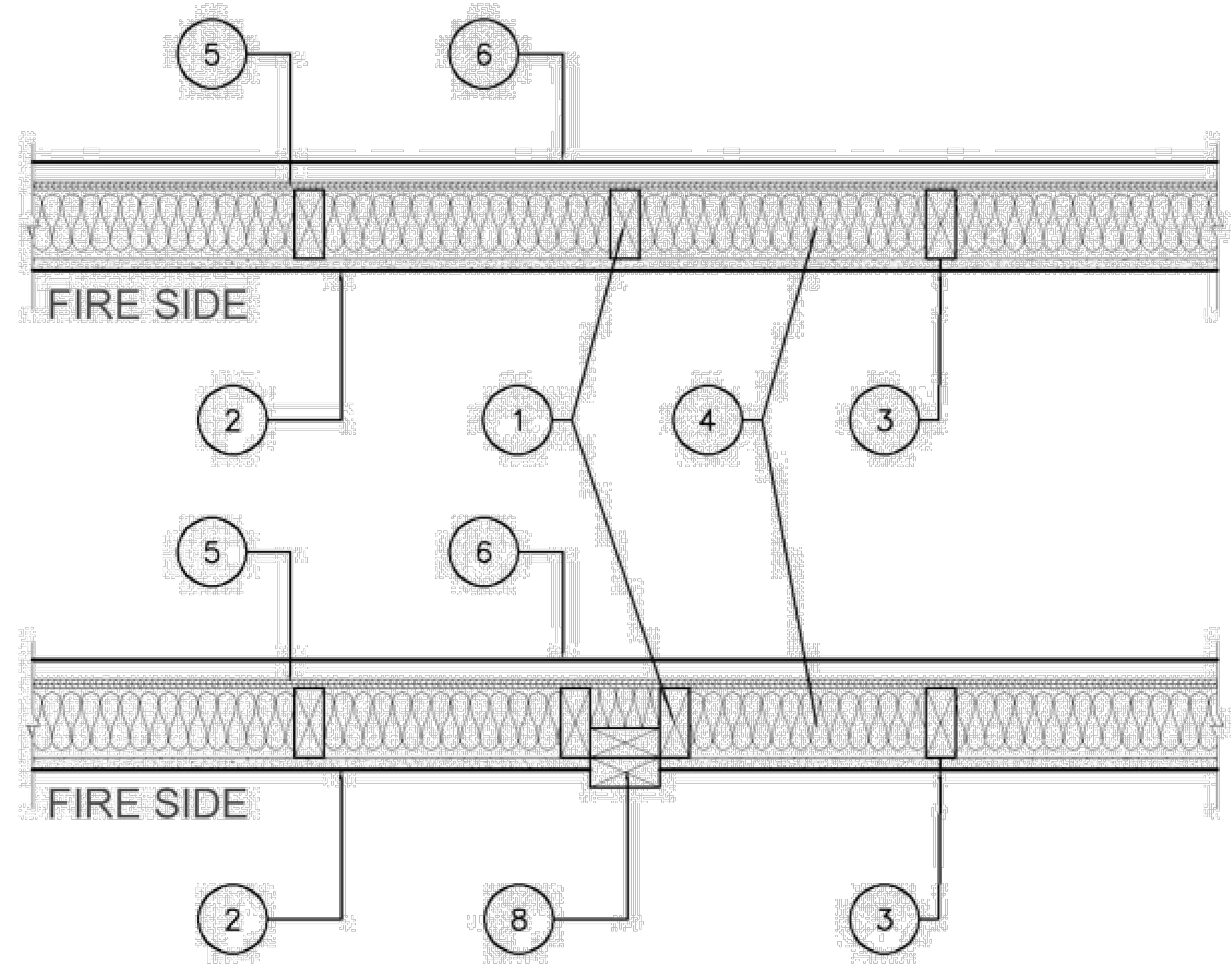
Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only

Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)

Finish Rating - 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used - See Guide BXUV or BXUVZ

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Wood Studs** - Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When **Mineral and Fiber Boards*** (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. **Gypsum Board*** - Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and fastened to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

When Item 7, 7B, 7C, 7D or 7E **Steel Framing Members***, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

ACADIA DRYWALL SUPPLIES LTD (View Classification) - CKNX.R25370

AMERICAN GYPSUM CO (View Classification) - CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) - CKNX.R19374

CERTAINTED GYPSUM INC (View Classification) - CKNX.R3660

CGC INC (View Classification) - CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) - CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) - CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) - CKNX.R11809

NATIONAL GYPSUM CO (View Classification) - CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) - CKNX.R7094

PANEL REV S A (View Classification) - CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) - CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) - CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) - CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) - CKNX.R38438

USG MEXICO S A DE C V (View Classification) - CKNX.R16089

2A. **Gypsum Board*** - (As an alternate to Item 2, Not Shown) - Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2B. **Gypsum Board*** - (As an alternate to Item 2, Not Shown) - 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

ACADIA DRYWALL SUPPLIES LTD - Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO - Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTED GYPSUM INC - Type C, Type X-2, Type X, Type X-1, Easi-Lite Type X-2

GEORGIA-PACIFIC GYPSUM L L C - Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Types PG-11, PGS-WRS.

THAI GYPSUM PRODUCTS PCL - Type C or Type X

2C. **Gypsum Board*** - (As an alternate to Item 2, Not Shown) - For Use with Item 5A only - 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in. and 4 in. from edges of board. Finish Rating is 25 min.

ACADIA DRYWALL SUPPLIES LTD - 5/8 Type X, Type Blueglass Exterior Sheathing

GEORGIA-PACIFIC GYPSUM L L C - Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Types PG-11, PGS-WRS

2D. **Gypsum Board*** - (As an alternate to Item 2) - Not to be used with Item 7, 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. Shank diam and 1/4 in. diam heads, 7 in. OC.

NATIONAL GYPSUM CO - SoundBreak XP Type X Gypsum Board

2E. **Gypsum Board*** - (As an alternate to Items 2 through 2D) - Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type QuietRock ES.

2F. **Gypsum Board*** - (As an alternate to Item 2) - Not to be used with Item 7, 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

CERTAINTED GYPSUM INC - Type SilentFX

2G. **Wall and Partition Facings and Accessories*** - (As an alternate to Items 2 through 2F) - Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type QuietRock 527.

2H. **Gypsum Board*** - (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 16 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C - Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLXL

2I. **Gypsum Board*** - (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO - Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

NATIONAL GYPSUM CO - Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSHR-C, Type FSW-6, Type FSL

2J. **Gypsum Board*** - (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC with the last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally.

CERTAINTED GYPSUM INC - Type C, Type X-2, Type X or Type X-1 (finish rating 26 min), Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2, Type EGRG or GlasRoc or GlasRoc Sheathing (finish rating 23 min)

3. **Joints and Fastener Heads** - (Not Shown) - Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. **Batts and Blankets*** - Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).

See **Batts and Blankets*** (BKNV) Category in the Building Materials Directory and **Batts and Blankets*** (R232) Category in the Fire Resistance Directory for names of Classified Companies.

4A. **Fiber, Sprayed*** - As an alternate to Batts and Blankets (Item 4) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C - INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4B. **Fiber, Sprayed*** - As an alternate to Item 4 and 4A - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.5 lb/ft³.

NU-WOOL CO INC - Cellulose Insulation

4C. **Fiber, Sprayed*** - As an alternate to Batts and Blankets (Item 4) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP - Celbar-RL

4D. **Fiber, Sprayed*** - As an alternate to Batts and Blankets (Item 4) - Spray applied, granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC - Type ROCKWOOL Premium Plus

5. **Wood Structural Panel Sheathing** - Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. **Mineral and Fiber Boards*** - As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. **Exterior Facings** - Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A. **Vinyl Siding - Molded Plastic*** - Contoured rigid vinyl siding having a flame spread value of 20 or less.

See **Molded Plastic** (BATAT) category in the Building Materials Directory for names of manufacturers.

B. **Particle Board Siding** - Hardboard exterior sidings including patterned panel or lap siding.

C. **Wood Structural Panel or Lap Siding** - APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. **Cementitious Stucco** - Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. **Brick Veneer** - Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie; ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. **Exterior Insulation and Finish System (EIFS)** - Nom 1 in. **Foamed Plastic*** insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See **Foamed Plastic** (BRYX and CCWV) categories for names of Classified companies.

G. **Siding** - Aluminum or steel siding attached over sheathing to studs.

H. **Fiber-Cement Siding** - Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. **Wall and Partition Facings and Accessories*** - Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturer's installation instructions, and meeting the requirements of local code agencies.

ELDORADO STONE OPERATIONS L L C - Type Eldorado Stone

6A. **Building Units*** - As an alternate to Exterior Facing Item 6 - Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through relainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements.

CENTRIA, A DIVISION OF NCI GROUP, INC - Types Formawall Dimension Series and Formawall Graphix Series

KINGSPAN INSULATED PANELS INC - Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Designwall 2000 or Designwall 4000, 2 and 3 in. nominal thickness.

7. **Steel Framing Members*** - (Optional, Not Shown) - Furring Channels and Steel Framing Members as described below:

a. **Furring Channels** - Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** - Used to attach furring channels (Item 7A) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C - Types RSIC-1, RSIC-1 (2.75).

7A. **Steel Framing Members*** - (Optional, Not Shown) - Furring channels and Steel Framing Members as described below:

a. **Furring Channels** - Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** - Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC - Type Isomax.

7B. **Steel Framing Members*** - (Optional, Not Shown) - Furring channels and Steel Framing Members as described below:

a. **Furring Channels** - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** - Used to attach furring channels (Item 7Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC - Type Genie Clip

7C. **Steel Framing Members*** - (Optional, Not Shown) - Furring channels and Steel Framing Members as described below:

a. **Furring Channels** - Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** - Used to attach furring channels (Item 7Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237R

7D. **Steel Framing Members*** - (Optional, Not Shown) - Furring channels and Steel Framing Members as described below:

a. **Furring Channels** - Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** - Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA - Type SonusClip

7E. **Steel Framing Members*** - (Optional, Not Shown) - Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** - Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 1/2 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members*** - Used to attach resilient channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

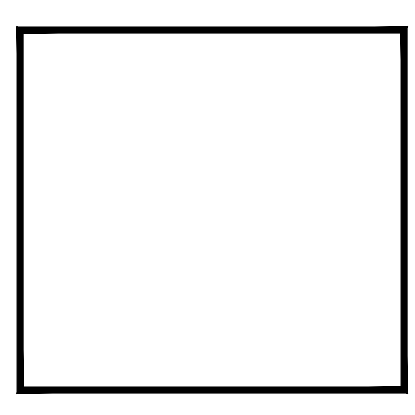
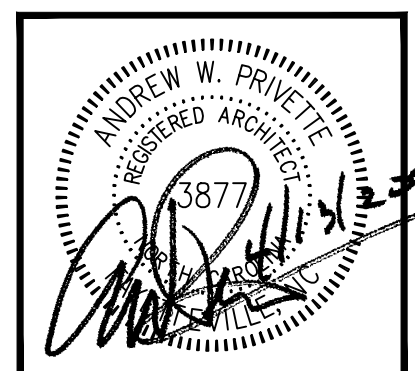
8. **Non-Bearing Wall Partition Intersection** - (Optional) - Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC, vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2018-07-11

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY
1	11-13-21	PERMITS	S.S.STOPE	AIA
2				
3				
4				
5				
6				
7				
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10				

JOB CODE: Z0FAIRWAY-10
DRAWN BY: S.S.STOPE
CHECKED BY: A. PRIVETTE
COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
FIRE RATED
UL-U356 EXTERIOR
WALL ASSEMBLY

G-105
SHEET 5 OF 6

PERMITTING STAMP:

A1 UL U356 1-HR EXTERIOR BEARING WALL ASSEMBLY
SCALE: NTS

Design No. U341

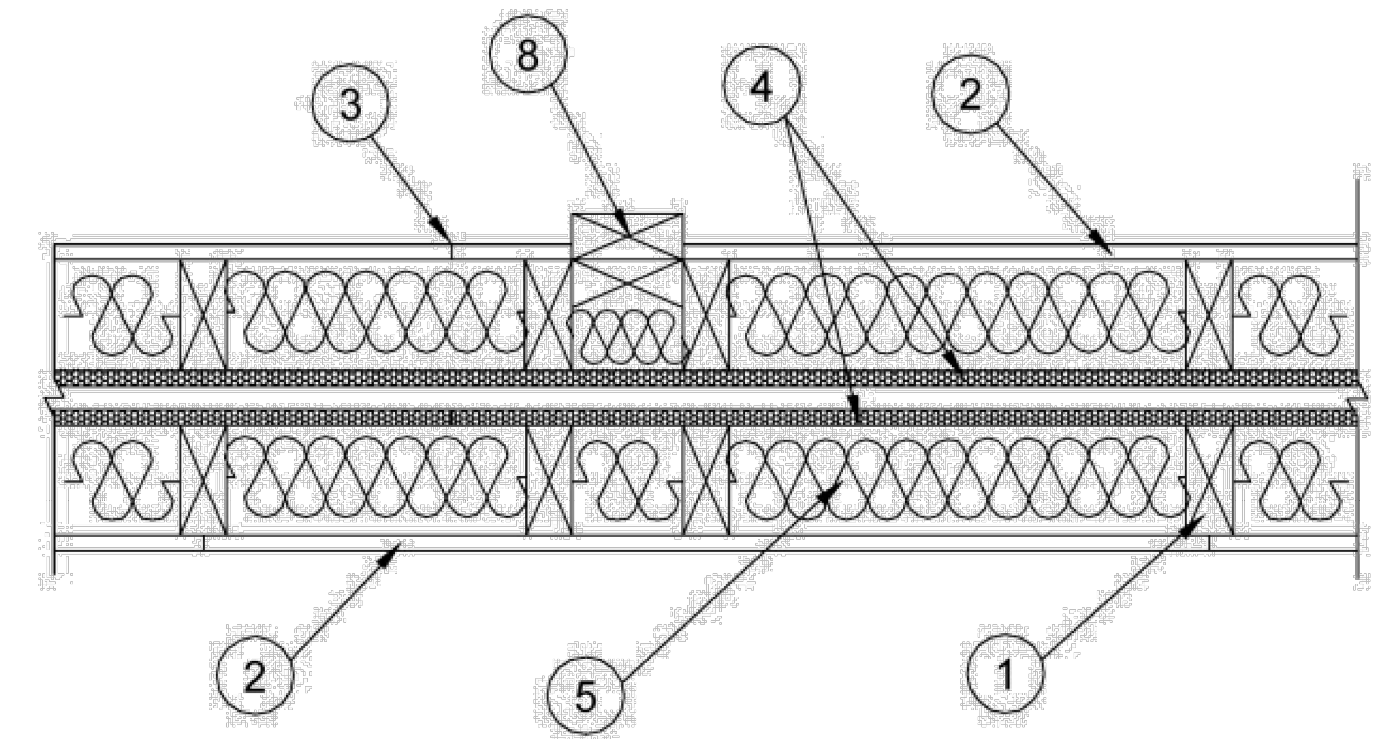
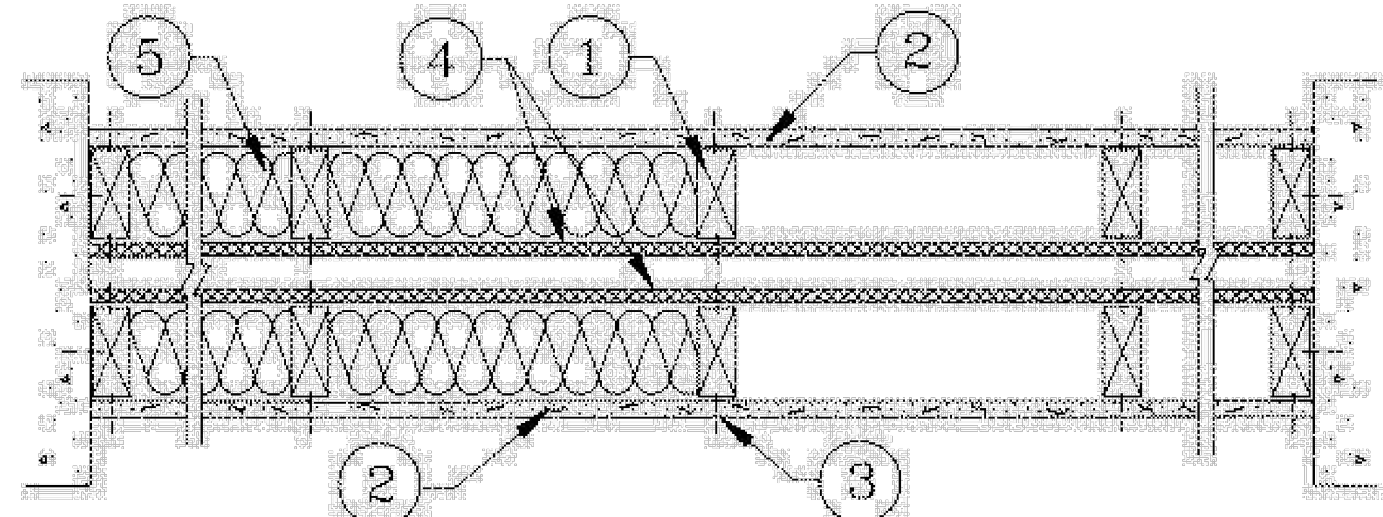
September 21, 2015

Bearing Wall Rating — 1 Hr.

Finish Rating — Min 20 min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide B XIV or B XV V7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



HORIZONTAL SECTION

- 1. Wood Studs — Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See Items 4 and 5.
2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. LS01, GS12 or U305. Nom 5/8 in. thick 4 ft wide Gypsum board or batt applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates with 1-1/4 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.

When Steel Framing Members* (Item 6-6B) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL ZAWAWI DRYWALL L L C SFZ (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. Gypsum Board* — (As an alternate to Item 2, not shown) - Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23 min).

2B. Gypsum Board* — (As an alternate to Item 2, not shown) - Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. LS01, GS12 or U305, supplied by the Classified companies listed below shown in the Gypsum Board* (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.

CGC INC

UNITED STATES GYPSUM CO

USG MEXICO S A DE C V

2C. Gypsum Board* — (As an alternate to Item 2, not shown) - 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C

CERTAINTEEED GYPSUM INC — Type C, Type X or Type X-1

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. Gypsum Board* — (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2E. Gypsum Board* — (As an alternate to Items 2 through 2D) - 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deading Gypsum Board.

wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

2G. Gypsum Board* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. Gypsum Board* — (As an alternate to Items 2 through 2G) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.

CERTAINTEEED GYPSUM INC — Type SilentFX

2I. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 2) - 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.

NATIONAL GYPSUM CO — Type FSW.

2K. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. Joints and Nailheads — Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. Sheathing — (Optional) — Septum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick Mineral and Fiber Boards*.

See Mineral and Fiber Boards (CERZ) category for names of Classified companies.

5. Batts and Blankets* — 3-1/2 in. max thickness glass or mineral fiber batt insulation. Optional when sheathing (Item 4) is used on both halves of wall.

See Batts and Blankets (BZJZ) category for list of Classified companies.

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

5B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

6 Steel Framing Members (Optional, Not Shown)* — Furring channels and Steel Framing Members as described below:

A. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.

B. Steel Framing Members* — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. Steel Framing Members* — (Optional, Not Shown) - Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6B. Steel Framing Members — (Optional, Not Shown)* — Furring channels and resilient sound isolation clip as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 2. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

b. Steel Framing Members* — Resilient sound isolation clip used to attach furring channels (Item 6Ba) to studs. Clips spaced 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

7. Wall and Partition Facings and Accessories* — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

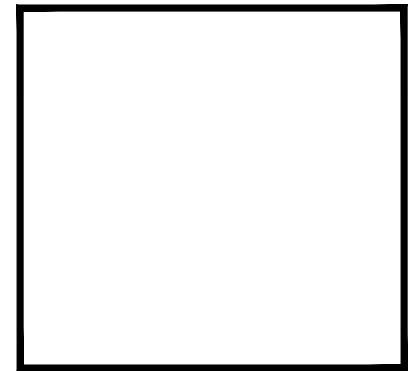
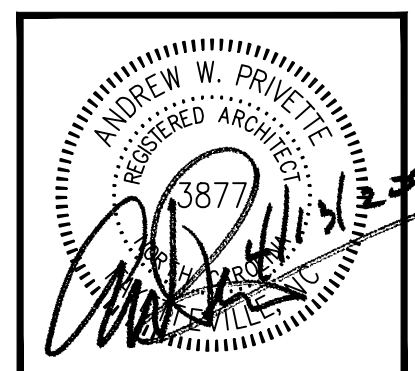
8. Non-Bearing Wall Partition Intersection — (Optional) Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC, vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC, vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-09-21



ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

Table with columns for PERMIT, DATE, DESCRIPTION, MARK, and CHECK.

JOB CODE: Z0FAIRWAY-10
DRAWN BY: S.S.TOPE
CHECKED BY: A. PRIVETTE
COPYRIGHT:
DESIGNED TO BUILD

SHEET TITLE:
FIRE RATED
UL-U341 WALL
SEPARATION ASSEMBLY

G-106
SHEET 6 OF 6

A1 1-HR SEPARATION WALL UL NO. U341 ASSEMBLY
SCALE: NTS

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER. ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION. COPYRIGHT © ALL RIGHTS RESERVED BY DESIGNED TO BUILD. NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

GENERAL STRUCTURAL:

THE GOVERNING CODE IS NORTH CAROLINA BUILDING CODE (NCBC) 2018 EDITION AND/OR LOCAL COUNTY CODE AMENDMENTS AND/OR ORDINANCES.

ANY REVISION INITIATED BY THE OWNER, GENERAL CONTRACTOR AND/OR THE SUBCONTRACTOR THAT DIRECTLY INFLUENCES OR CHANGES STRUCTURAL ELEMENTS INCLUDING, BUT NOT LIMITED TO FLOOR JOIST, BEAM OR HEADER SPANS; WALL HEIGHTS; BEAM OR HEADER SIZES; RELOCATION OF BEARING WALLS, FOOTING SIZES, ETC. AS INDICATED ON THESE DRAWINGS, ENGINEER OF RECORD SHALL BE NOTIFIED IN WRITING INDICATING THE PROPOSED CHANGES FOR REVIEW.

THESE DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES. DIMENSIONS NOTED TAKE PRECEDENCE OVER SCALE.

ALL DIMENSIONS SHOWN ARE TO FACE OF STUD (F.O.S.), UNLESS OTHERWISE NOTED. DIMENSIONAL ADJUSTMENTS MAY INCLUDE, BUT ARE NOT LIMITED TO: CENTER LINE (C), FACE OF CONCRETE (F.O.C.) AND FACE OF MASONRY (F.D.M.)

COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE A KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS WHICH COULD AFFECT THEIR WORK.

IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS AND DRAWINGS REGARDING STRUCTURAL ISSUES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE REPEATED.

THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND CONSTRUCTION PROCEDURES, FABRICATION PROCESS, COORDINATION OF WORK WITH OTHER TRADES AND JOB SITE SAFETY.

TEMPORARY BRACING, SHEATHING, SHORING, ETC., REQUIRED TO INSURE THE STRUCTURAL INTEGRITY/STABILITY OF THE EXISTING BUILDINGS, SIDEWALLS, UTILITIES, ETC., DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.

DESIGN LOADS

GRAVITY LOAD

ROOF LIVE LOAD	= 20 PSF	
PRIVATE ROOMS	= 40 PSF	
PUBLIC ROOMS AND CORRIDORS SERVING THEM	= 100 PSF	
DECKS	= 100 PSF	
STAIRS AND EXITS		= 100 PSF
DEAD LOAD (ACTUAL WEIGHTS WITH A MIN. OF)		
		= 15 PSF
GROUND SNOW LOAD (Pg)		= 10 PSF
EXPOSURE FACTOR (Ce)		= 1.00
THERMAL FACTOR (Ct)		= 1.00
IMPORTANCE FACTOR (I)		= 1.00

ALLOWABLE DEFLECTION FACTOR FOR ROOF

LIVE LOAD	= L/360
TOTAL LOAD	= L/240

FLOORS & DECKS

LIVE LOAD	= L/480
TOTAL LOAD	= L/360

MEMBERS SUPPORTING MASONRY / BRICK

LIVE LOAD	= L/600
TOTAL LOAD	= L/600

WIND LOAD

ULTIMATE WIND SPEED	= 121 MPH (PER FIGURE 26.5-1A, ASCE 7-10)
EXPOSURE	= C

SEISMIC DATA

Ss = .241 S1 = .1026
 SITE CLASSIFICATION PRESUMPTIVE = D
 Fa = 1.60 Fv = 2.39
 Sms = .385 Sm1 = .245
 SEISMIC DESIGN COEFF: Sds = .257 Sd1 = .163
 SEISMIC DESIGN CATEGORY = C

SEISMIC FORCE RESISTING SYSTEM = LIGHT FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
 RESPONSE MODIFICATION COEFFICIENT(R) = 7 (AS PER ASCE 7-10, TABLE 12.2-1)

Cs = .0395

ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

LATERAL DESIGN CONTROL = WIND

CONCRETE

ALL CONCRETE FOR FOOTINGS, FOUNDATION WALLS, RETAINING WALLS, AND FLOOR SLABS ON GRADE SHALL ATTAIN A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:

FOUNDATION WALLS, FOOTINGS AND GRADE SLABS	: 3,000 PSI
BASEMENT SLABS AND SLABS EXPOSED TO WEATHER	: 3,000 PSI

ALL CONCRETE EXPOSED TO THE WEATHER AND SUBJECT TO FREEZING AND THAWING IN A MOIST WET CONDITION OR DEICING CHEMICALS SHALL BE AIR ENTRAINED, THE TOTAL AIR CONTENT (PERCENT BY VOLUME OF CONCRETE) SHALL NOT BE LESS THAN 5 PERCENT (5%) OR MORE THAN 7 PERCENT (7%) & MAXIMUM WATER CEMENT RATIO OF 0.45.

LOCATION OF CONCRETE	MAXIMUM SIZE OF AGGREGATE	SUMP	MAXIMUM WINDUPTAKE RATIO BY WGT.
FOUNDATIONS (GRADE BEAMS & FOOTINGS)	3000 PSI	1'x'	0.59 (0.45)
SLABS ON GRADE	3000 PSI	1'	0.48 (0.45)

ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED AND KEYS PROVIDED WHERE REQUIRED OR INDICATED ON THE DRAWINGS. CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, MAY BE PROPOSED BY THE CONTRACTOR. HOWEVER, THE LOCATIONS ARE SUBJECT TO REVIEW BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER. ALL VERTICAL CONSTRUCTION, CONTROL AND CONTRACTION JOINTS SHALL LIE IN TRUE VERTICAL PLANE.

ALL FORMWORK AND PLACING OF CONCRETE SHALL BE PLUMB, LEVEL, AND SQUARE. THE STRUCTURAL ENGINEER SHALL REVIEW AND APPROVE ANY PROPOSED FORMWORK DESIGN DIFFERENT FROM INDUSTRY STANDARD PRACTICES.

EXTERIOR SLAB AREAS SHALL BE BROOM FINISHED, UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT. THE STROKES SHALL MAINTAIN THE SAME DIRECTION AT ADJACENT SURFACES. NO RIPPLES, BUMPS, OR ANY OTHER IRREGULARITIES WILL BE ACCEPTABLE

CONTRACTOR IS RESPONSIBLE FOR SUBMITTING CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE.

CONTRACTOR SHALL LOCATE CONTROL JOINTS AS REQUIRED (MAXIMUM SPACING IN ANY DIRECTION SHALL NOT EXCEED 12'-0") REFER TO DETAILS

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 OR BETTER. ALL REINFORCING BAR DIMENSIONS SHOWN ON THE DRAWINGS ARE TO THE CENTER LINE OF BARS, UNLESS OTHERWISE NOTED. ALL CONCRETE AND REINFORCING STEEL SHALL BE FURNISHED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE STRUCTURES, (ACI 318-14). REINFORCED STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE CLEAR CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE:

- A. CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH : 3"
- B. EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS : 2"
#5 BARS AND SMALLER : 1.5"
- C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND (SLABS AND WALLS) : 0.75"
- D. BEAMS, GIRDERS, COLUMNS, PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS : 1.5"

STEEL REINFORCING REQUIREMENTS IN CONCRETE FLOOR SLABS SHALL BE AS REQUIRED BY CODE AND/OR LOCAL JURISDICTIONS, OR PER SITE CONDITIONS.

TABLE 1--MINIMUM LAP SPLICE AND ANCHORAGE DIMENSIONS TABLE				
TABLE FOR A615 GRADE 60-- UNCOATED REINFORCING				
BAR SIZE	TOP BARS		OTHER BARS	
	LAP (INCHES)	ANCHOR (INCHES)	LAP (INCHES)	ANCHOR (INCHES)
#3	18	14	16	12
#4	26	20	20	15
#5	40	31	31	24
#6	57	44	44	34

WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BAR. USE WHICHEVER DIMENSION IS LARGER.

TOP BARS SHALL BE DEFINED AS BEAM AND SLAB HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE TOP REINFORCEMENT. HORIZONTAL REINFORCING IN WALLS SHALL BE CONSIDERED AS TOP BARS.

SUBMIT REINFORCING DETAILS AND DESIGN MIX FOR REVIEW. DETAILS SHALL CONFORM TO ACI DETAILING MANUAL PUBLICATION SP-66. NOTE ALL OPENINGS, RECESSES, ELEVATIONS, ETC. SUBMISSIONS TO BE IN COMPLIANCE WITH THE SHOP DRAWING SECTION OF THESE NOTES.

STRUCTURAL LUMBER

STRUCTURAL LUMBER SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) 2005 EDITION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. ALL STRUCTURAL FRAME MEMBERS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

SYP #2 (HEADERS & BEAMS)

Fb	BENDING	: 975 psi
Ft	TENSION (parallel to grain)	: 550 psi
Fv	SHEAR (parallel to grain)	: 175 psi
Fc⊥	COMPRESSION (perpendicular to grain)	: 565 psi
Fc	COMPRESSION (parallel to grain)	: 1450 psi
E	MODULUS OF ELASTICITY	: 1,600,000 psi
Emin.	MODULUS OF ELASTICITY	: 580,000 psi

SPF STUD GRADE (POSTS & STUDS)

Fb	BENDING	: 675 psi
Ft	TENSION (parallel to grain)	: 350 psi
Fv	SHEAR (parallel to grain)	: 135 psi
Fc⊥	COMPRESSION (perpendicular to grain)	: 425 psi
Fc	COMPRESSION (parallel to grain)	: 725 psi
E	MODULUS OF ELASTICITY	: 1,200,000 psi
Emin.	MODULUS OF ELASTICITY	: 440,000 psi

DESIGN PROPERTIES FOR:

MICROLLAM LVL (BEAM)

GRADE = 1.9E

Fb	BENDING	: 2,600 psi
Fv	SHEAR (parallel to grain)	: 285 psi
Fc⊥	COMPRESSION (perpendicular to grain)	: 750 psi
Fc	COMPRESSION (parallel to grain)	: 2510 psi
E	MODULUS OF ELASTICITY	: 1,900,000 psi

PARALLAM PSL (BEAM)

GRADE = 2.0E

Fb	BENDING	: 2,900 psi
Fv	SHEAR (parallel to grain)	: 290 psi
Fc⊥	COMPRESSION (perpendicular to grain)	: 750 psi
Fc	COMPRESSION (parallel to grain)	: 2,900 psi
E	MODULUS OF ELASTICITY	: 2,000,000 psi

ALL WOOD SHALL BE MINIMUM 8" ABOVE FINISH GRADE, OR SHALL BE PRESSURE TREATED.

WHERE INDICATED ON THE DRAWINGS ENGINEERED FLOOR "J" JOISTS SHALL BE MANUFACTURED BY WEYERHAEUSER TRUSS JOISTS. PRIOR TO ORDERING THE GENERAL CONTRACTOR SHALL ACQUIRE SHOP DRAWINGS FROM THE FLOOR JOIST MANUFACTURER AND SUBMIT THEM TO ENGINEER OF RECORD IN A TIMELY MANNER FOR REVIEW PRIOR TO ORDERING. IN THE EVENT THE GENERAL CONTRACTOR FAILS TO SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER THE GENERAL CONTRACTOR AND THE FLOOR JOIST MANUFACTURER SHALL BEAR ALL DESIGN, PERFORMANCE AND LEGAL RESPONSIBILITIES OF THE FLOOR SYSTEM(S) AND HOLD STRUCTURAL ENGINEER HARMLESS.

PROVIDE 3/4" TONGUE AND GROOVE PLYWOOD (APA 24/16 RATED STRUCT--FLOOR) GLUED AND NAILED TO THE FLOOR JOISTS TO MEET THE AMERICAN PLYWOOD ASSOCIATION (APA) APPROVED GLUED FLOOR SYSTEM, UNLESS OTHERWISE SPECIFIED.

LUMBER EXPOSED TO THE ELEMENTS, MASONRY INCLUDING BUT NOT LIMITED TO: POSTS, BEAMS, DECKING, DECK, FRAMING LEDGERS, ETC. SHALL BE PRESSURE TREATED.

REQUIRED POST SIZES FROM POINT LOADS AT GIRDER TRUSS BEAM AND/OR HEADER END LOCATIONS SHALL BE CONTINUOUS, BEARING ONTO BEAMS OR CONTINUOUS TO FOOTINGS AS INDICATED. PROVIDE SQUASH BLOCKS BETWEEN FLOOR FRAMING AS NECESSARY OR REQUIRED.

STRUCTURAL CONNECTORS INDICATED ON THESE DOCUMENTS SHALL BE PROVIDED BY SIMPSON STRONG-TIE COMPANY, INC., PROVIDE JOIST HANGERS AT EACH END OF ALL FLOOR JOISTS, AND/OR BEAMS FLUSH WITH ADJACENT BEAMS, HEADERS. PROVIDE COLUMN CAPS AND POST BASES AT ALL STRUCTURAL LOAD BEARING WOOD BEAMS.

STRUCTURAL MEMBERS INDICATED ARE REQUIRED MINIMUM SIZES AND MAY BE INCREASED TO ALIGN WITH ADJACENT FRAMING MEMBERS AS NECESSARY OR REQUIRED WITHOUT ADDITIONAL STRUCTURAL ENGINEERING AT THE GENERAL CONTRACTOR/OWNER'S DISCRETION.

PREFABRICATED WOOD TRUSSES

ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS. CLIPS OR ANCHORS TO BE SPECIFIED BY ENGINEER OF RECORD BASED ON REVIEW OF TRUSS SHOP DRAWINGS.

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE AMERICAN FOREST AND PAPER ASSOCIATION.

TRUSSES SHALL BE DESIGNED TO SUPPORT THE INDICATED DESIGN LOADS PLUS THE SELF-WEIGHTS OF THE TRUSSES.

TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN NOTES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. DESIGN NOTES SHALL INCLUDE THE RATED LOAD CAPACITY OF THE CONNECTORS USED TO CONNECT THE TRUSS MEMBERS AT THE PANEL POINTS, CERTIFICATION OF THE CONNECTOR CAPACITIES AND THE MANUFACTURER'S LICENSE VERIFYING THAT ARE CERTIFIED TO MANUFACTURE THE TRUSSES UTILIZING THE PROPOSED TRUSS CONNECTOR SYSTEM.

THE CONTRACTOR SHALL REVIEW ALL TRUSS FABRICATION AND INSTALLATION DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT AND PRIOR TO FABRICATION.

PREFABRICATED WOOD TRUSSES -- CONT.

TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING SHALL BE DESIGNED BY THE TRUSS MANUFACTURER'S ENGINEER. ALL BRACING AND BRIDGING SHALL BE INDICATED ON THE TRUSS INSTALLATION DRAWINGS.

THE CONTRACTOR SHALL KEEP TWO COMPLETE SETS OF THE REVIEWED TRUSS SHOP DRAWINGS AND CALCULATIONS ON THE JOB SITE. ONE SET OF THESE DRAWINGS SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR FOR FRAMING INSPECTION.

TRUSSES SHALL BE DESIGNED TO SUPPORT ALL SPECIFIED AND INDICATED LOADS IN ACCORDANCE WITH THE LOAD COMBINATIONS IN THE BUILDING CODE. THE TRUSS MANUFACTURER SHALL LOCATE AND COMPUTE THE MAGNITUDES OF ALL SNOW DRIFT LOADS. THE TRUSS MANUFACTURER SHALL LOCATE AND COMPUTE AND ACCOUNT FOR ALL ADDITIONAL LOADS AND REACTIONS FROM ALL OVER-FRAMING AND PIGGY-BACK TRUSSES CONNECTED TO OR BEARING UPON OTHER SUPPORTING TRUSSES.

HANGER SCHEDULE U.N.O.

HANGER SCHEDULE	
SIZE	HANGER
2x6 thru 2x12	LB
4x6 thru 4x14	HUSTIF
4x16	HUTF
TJ1	ITT
3/2" & 9/4" PSL OR LVL	GLTV
7"x PSL OR LVL	HGLTV

NOTES:

1. PROVIDE SKEWED, SLOPED HANGERS AS REQ'D.
2. USE HANGERS SHOWN ON SCHED. U.N.O. OR PLANS.
3. WHEN HANGERS ARE EXPOSED TO WEATHER OR IN CONTACT OF TREATED LUMBER USE "Z" GALVANIZED CONNECTIONS.

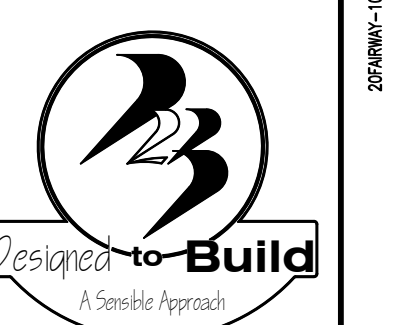
TOP AND BOTTOM PLATE FASTENERS UNLESS NOTED OTHERWISE

I.D.	MATERIAL	NAIL SPACING		NOTE
		SIZE	EDGE	
TOP OF WALL LEVEL	7/16" OSB SHEATHING	8d	488 in.	SHEATHING EXTENDS FROM BOTTOM OF BOTTOM PLATE TO TOP OF TOP PLATE.
FLOOR LEVEL	7/16" OSB SHEATHING	8d	488 in.	

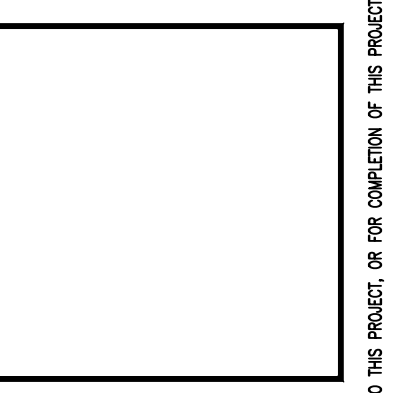
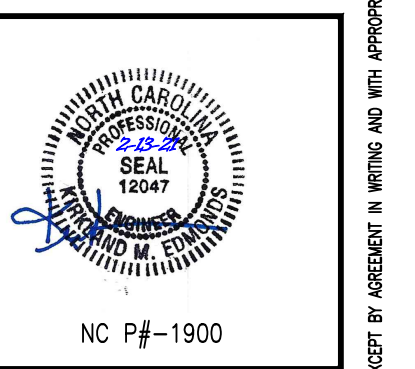
DOUBLE TOP PLATE NAILING UNLESS NOTED OTHERWISE

I.D.	LOCATION	FASTENERS		COMMENTS
		SIZE	SPACING	
DOUBLE TOP PLATE	INTERIOR RUNS	16d	16 in.	
DOUBLE TOP PLATE	LAPS, SPLICES AND INTERSECTIONS	(3) 16d	EA. SIDE OF JOINT	OVERLAP PLATES AT CORNERS AND JOINTS

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ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING
 SPRING LAKE, NORTH CAROLINA 28390

I.D.	MARK	DATE	DESCRIPTION	KME	CHK
4-12-21					

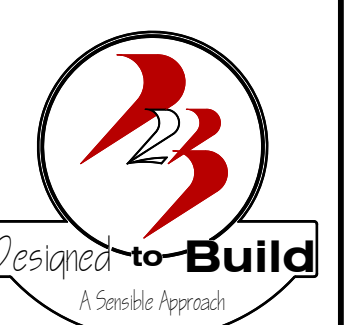
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SHEET TITLE:
 STRUCTURAL NOTES

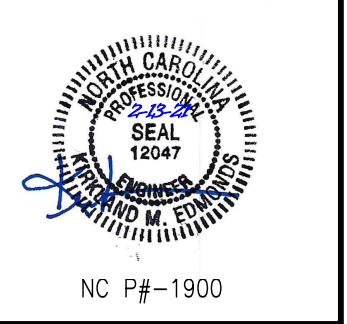
S-1
 SHEET 1 OF 7

PERMITTING STAMP:

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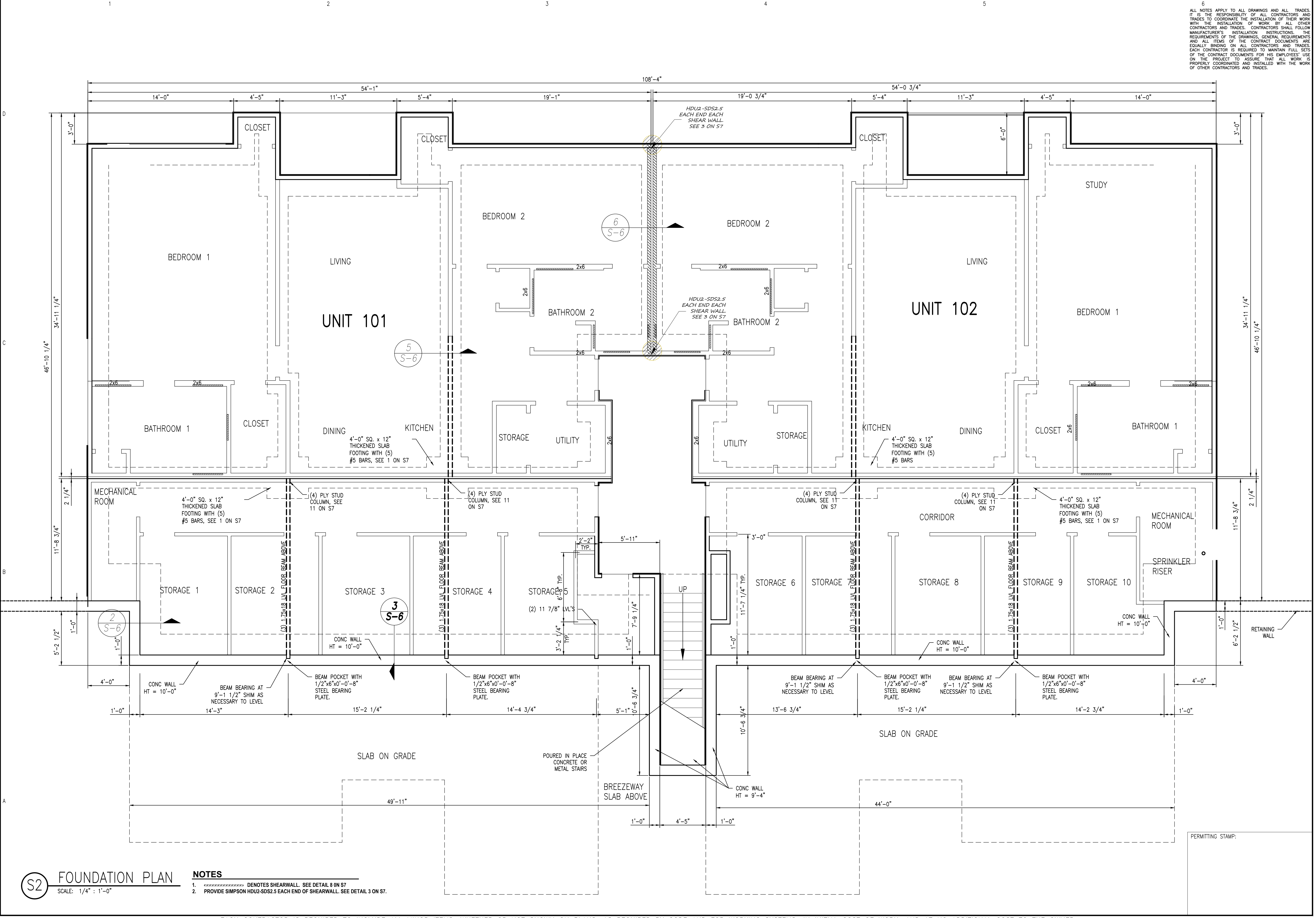
FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	BY	CHK
1	4-12-21	ORIGINAL ISSUE	KME	
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SHEET TITLE:
FOUNDATION PLAN

S-2
 SHEET 2 OF 7



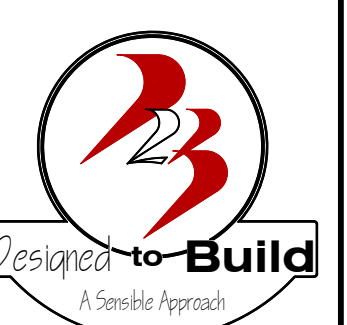
S2 FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

- NOTES**
1. DENOTES SHEARWALL. SEE DETAIL 8 ON S7.
 2. PROVIDE SIMPSON HDU2-SDS2.5 EACH END OF SHEARWALL. SEE DETAIL 3 ON S7.

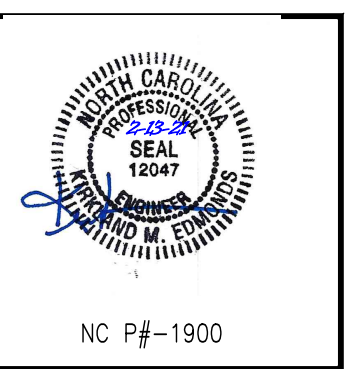
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20FAIRWAY-10

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 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com



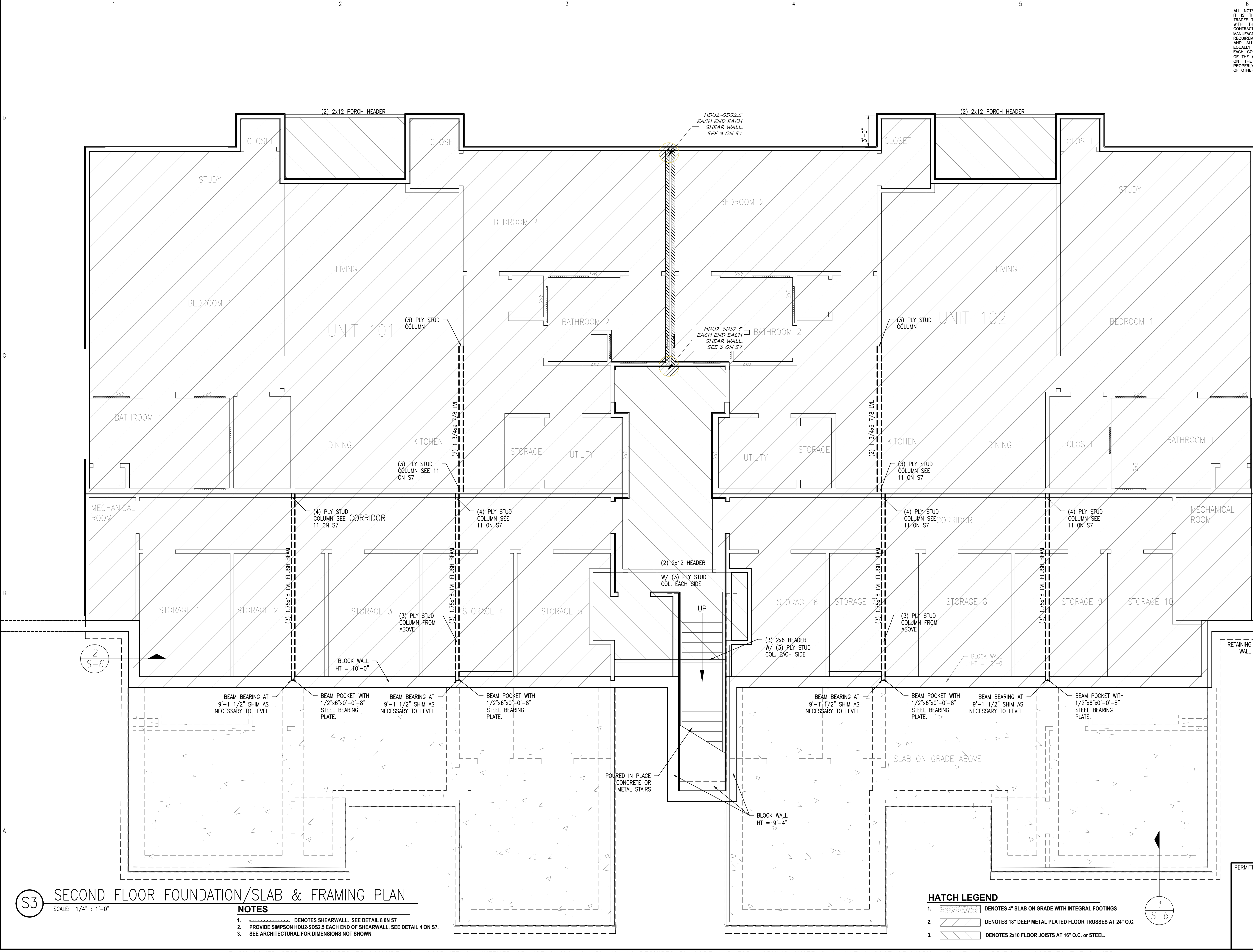
FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	BY	CHK
1	4-12-21	ORIGINAL ISSUE	KME	CHK
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SHEET TITLE:
**SECOND FLOOR FND
 SLAB & FRAMING PLAN**

S-3
 SHEET 3 OF 7

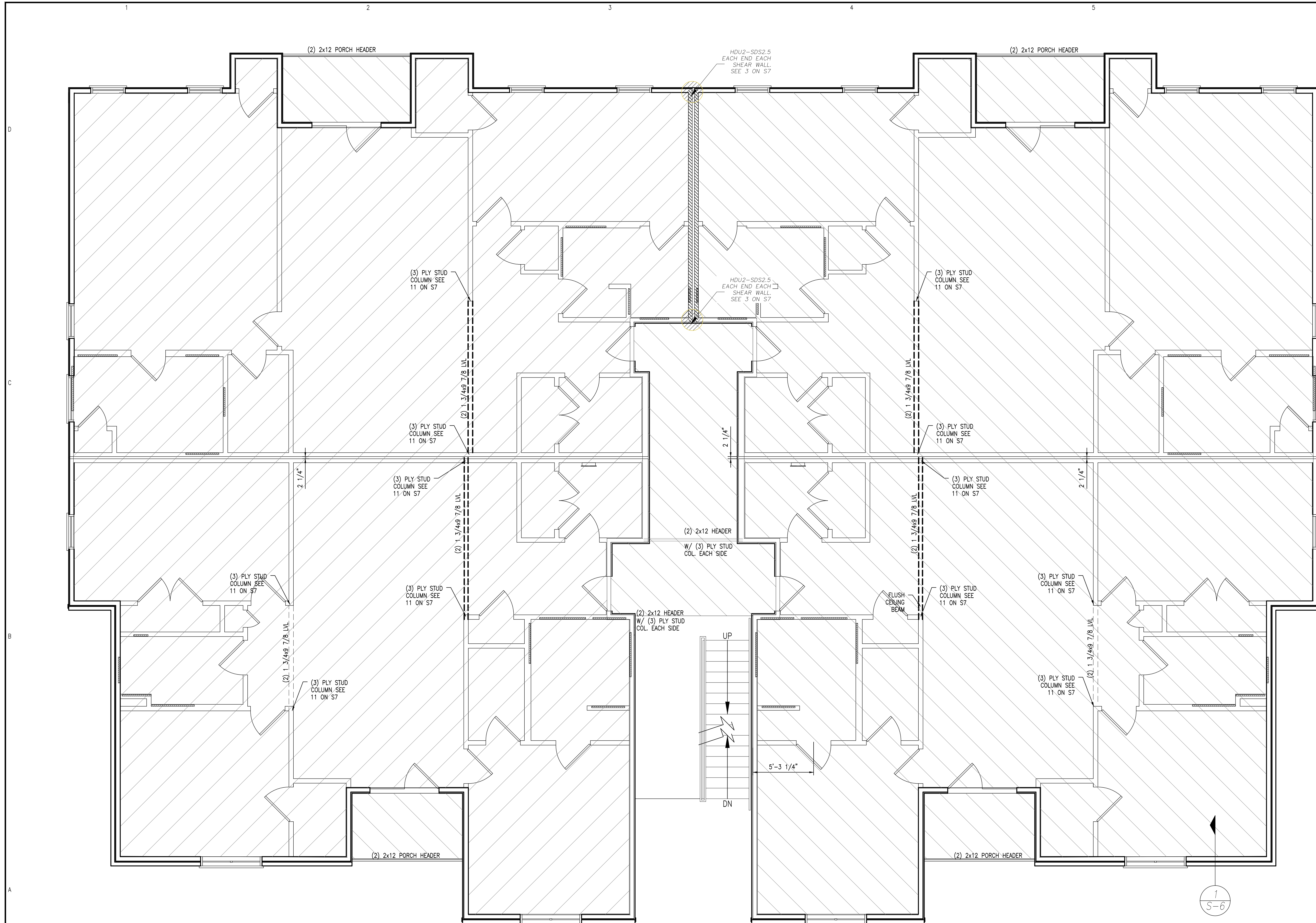


S3 SECOND FLOOR FOUNDATION/SLAB & FRAMING PLAN
 SCALE: 1/4" = 1'-0"

- NOTES**
1. DENOTES SHEARWALL. SEE DETAIL 8 ON S7
 2. PROVIDE SIMPSON HDU2-SDS2.5 EACH END OF SHEARWALL. SEE DETAIL 4 ON S7.
 3. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.

- HATCH LEGEND**
1. DENOTES 4" SLAB ON GRADE WITH INTEGRAL FOOTINGS
 2. DENOTES 18" DEEP METAL PLATED FLOOR TRUSSES AT 24" O.C.
 3. DENOTES 2x10 FLOOR JOISTS AT 16" O.C. OR STEEL.

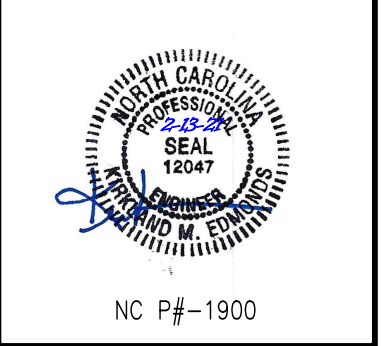
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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING
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SHEET TITLE:
THIRD FLOOR FRAMING PLAN

S-4
 SHEET 4 OF 7

S4 THIRD FLOOR FRAMING PLAN
 SCALE: 1/4" = 1'-0"

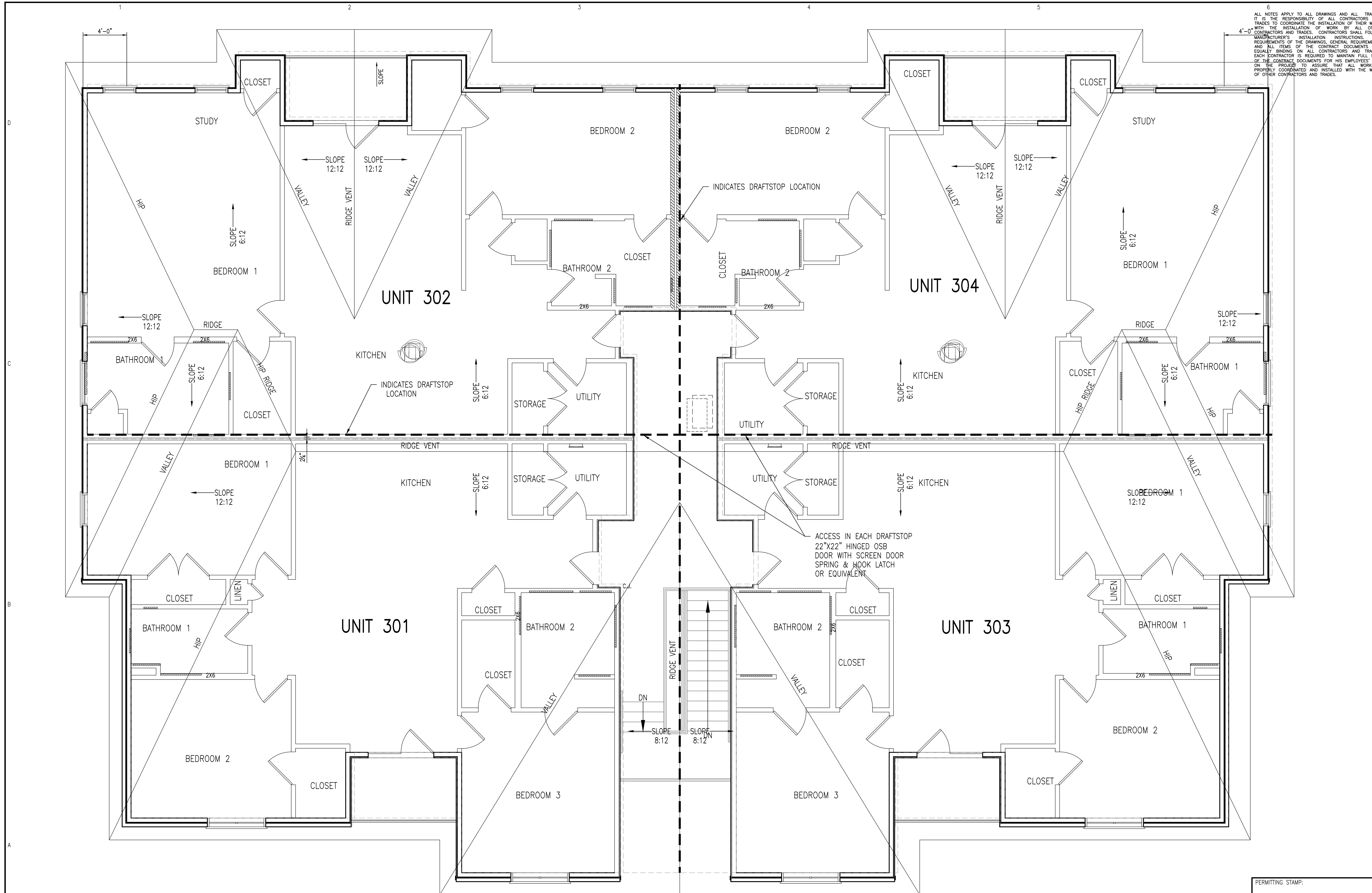
- NOTES**
1. DENOTES SHEARWALL. SEE DETAIL 8 ON S7
 2. PROVIDE SIMPSON HDU2-SDS2.5 EACH END OF SHEARWALL. SEE DETAIL 4 ON S7.

- HATCH LEGEND**
1. DENOTES 18" DEEP METAL PLATED FLOOR TRUSSES AT 24" O.C.
 2. DENOTES 2x10 FLOOR JOISTS AT 16" O.C. OR STEEL.

PERMITTING STAMP:

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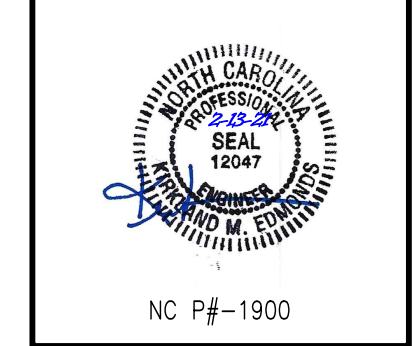
S5 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

- NOTES**
1. DENOTES SHEARWALL. SEE DETAIL 8 ON S7
 2. PROVIDE METAL PLATED ROOF TRUSSES TO CONFORM TO ROOF PLAN AS SHOWN

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ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

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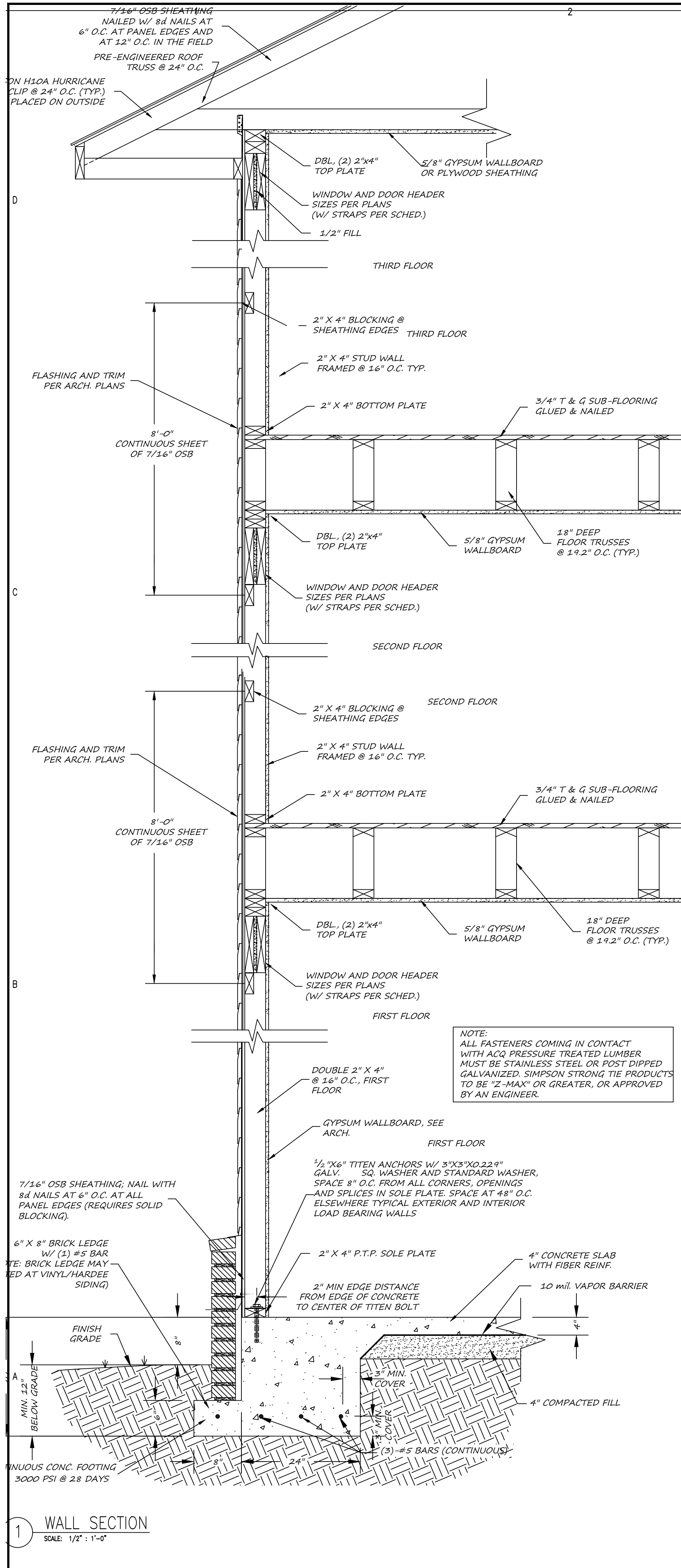
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SHEET TITLE:
ROOF FRAMING PLAN

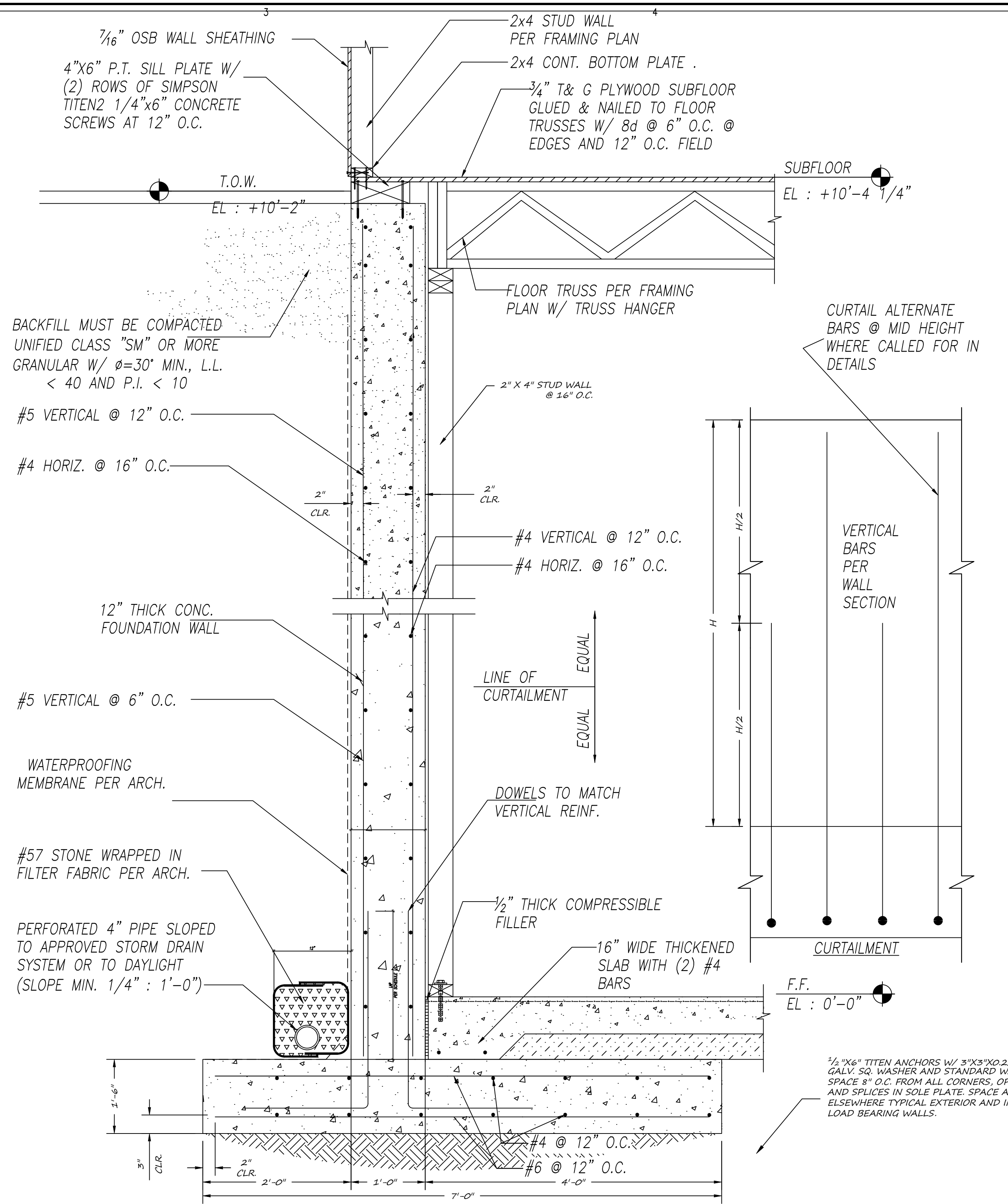
S-5
SHEET 5 OF 7

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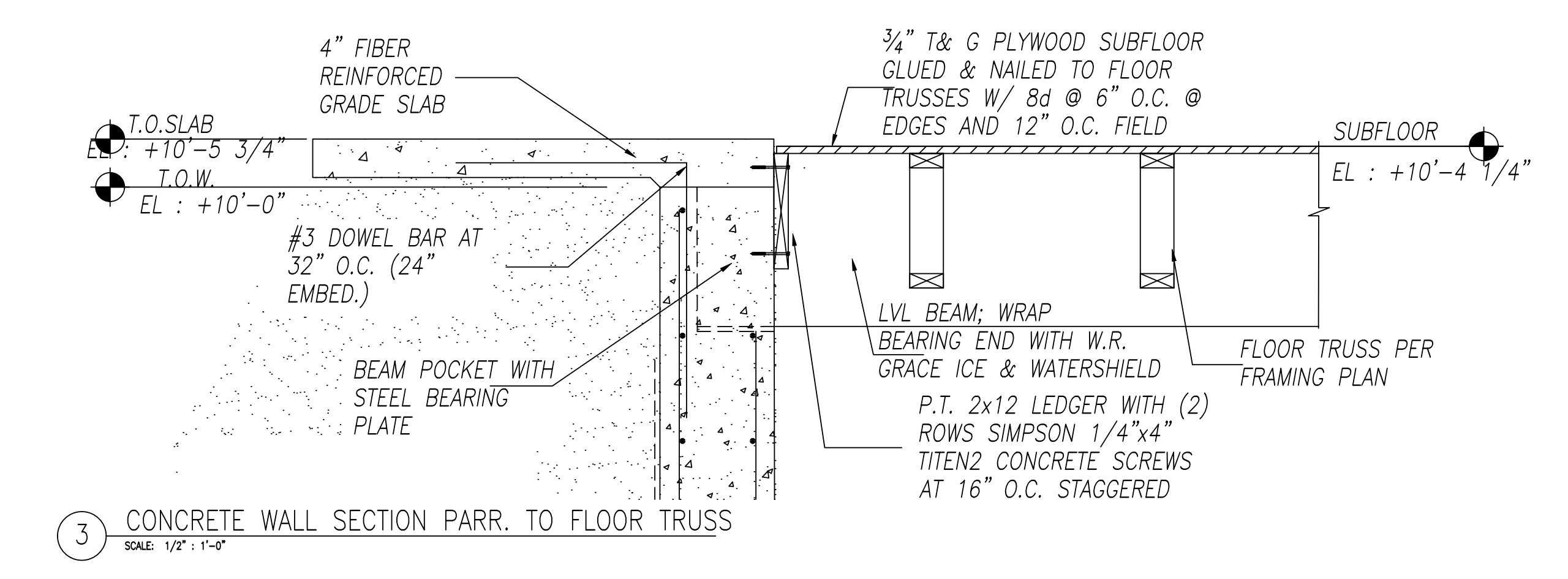
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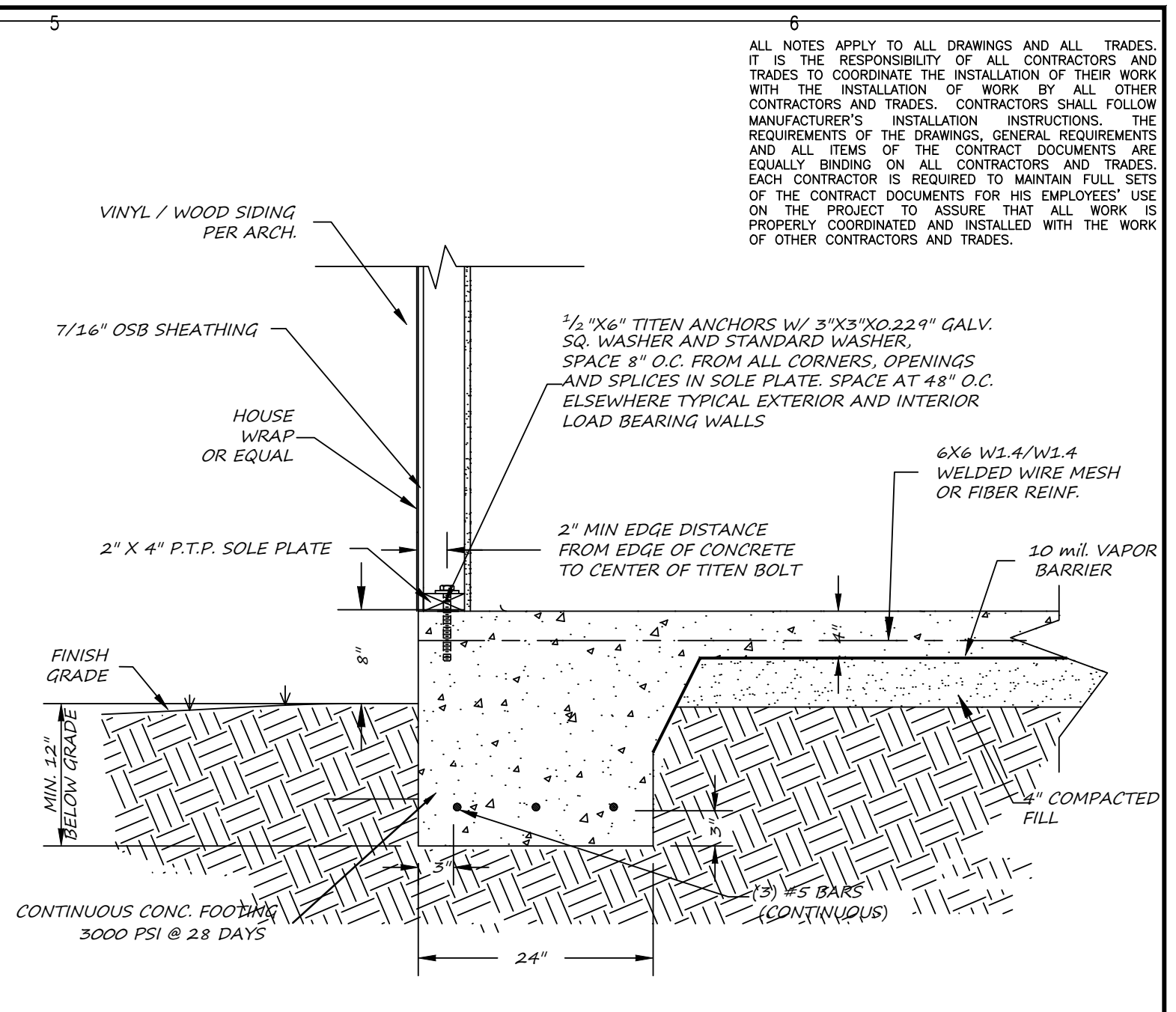
1 WALL SECTION
SCALE: 1/2" = 1'-0"



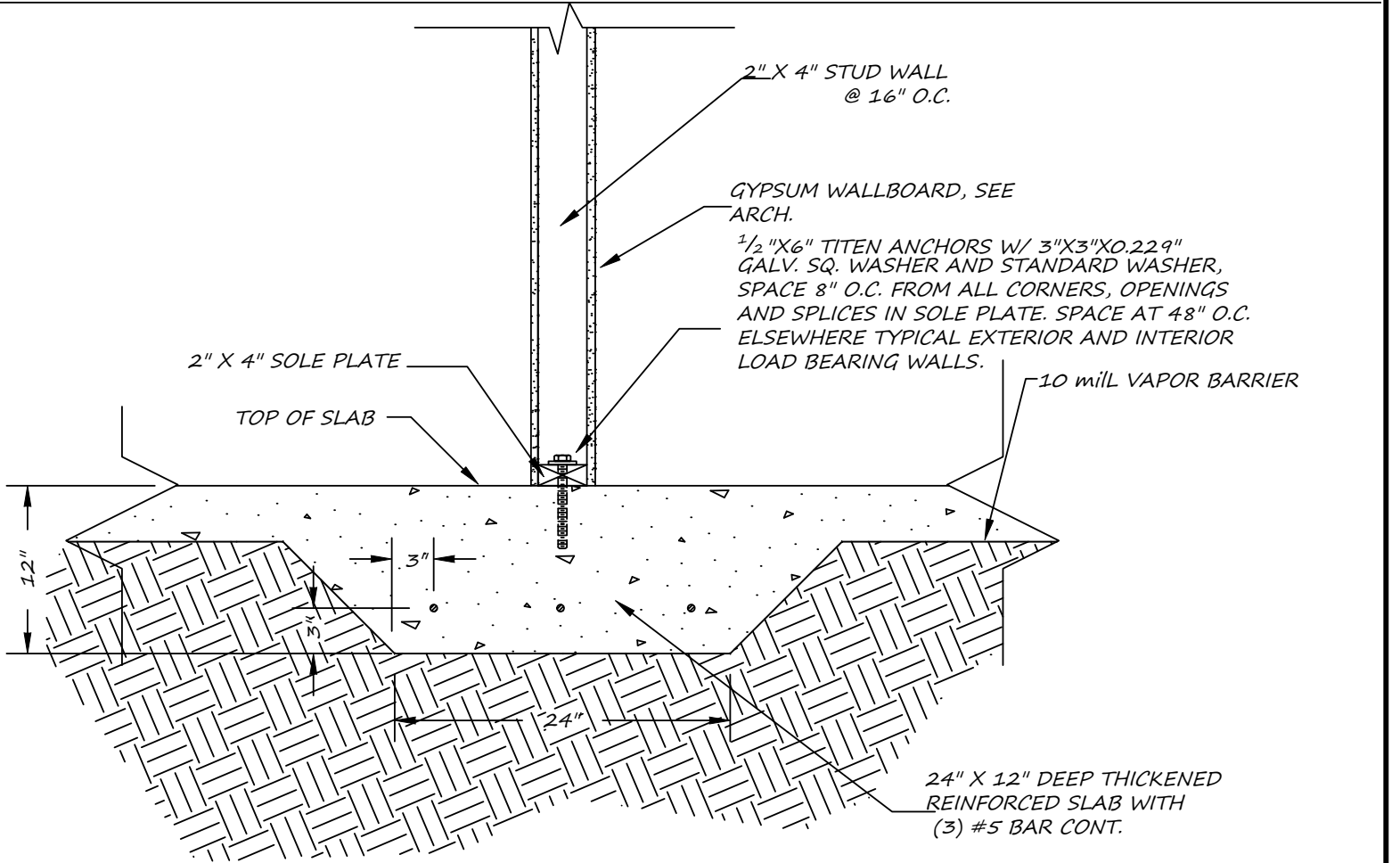
2 CONCRETE WALL SECTION PERP. TO FLOOR TRUSS
SCALE: 1/2" = 1'-0"



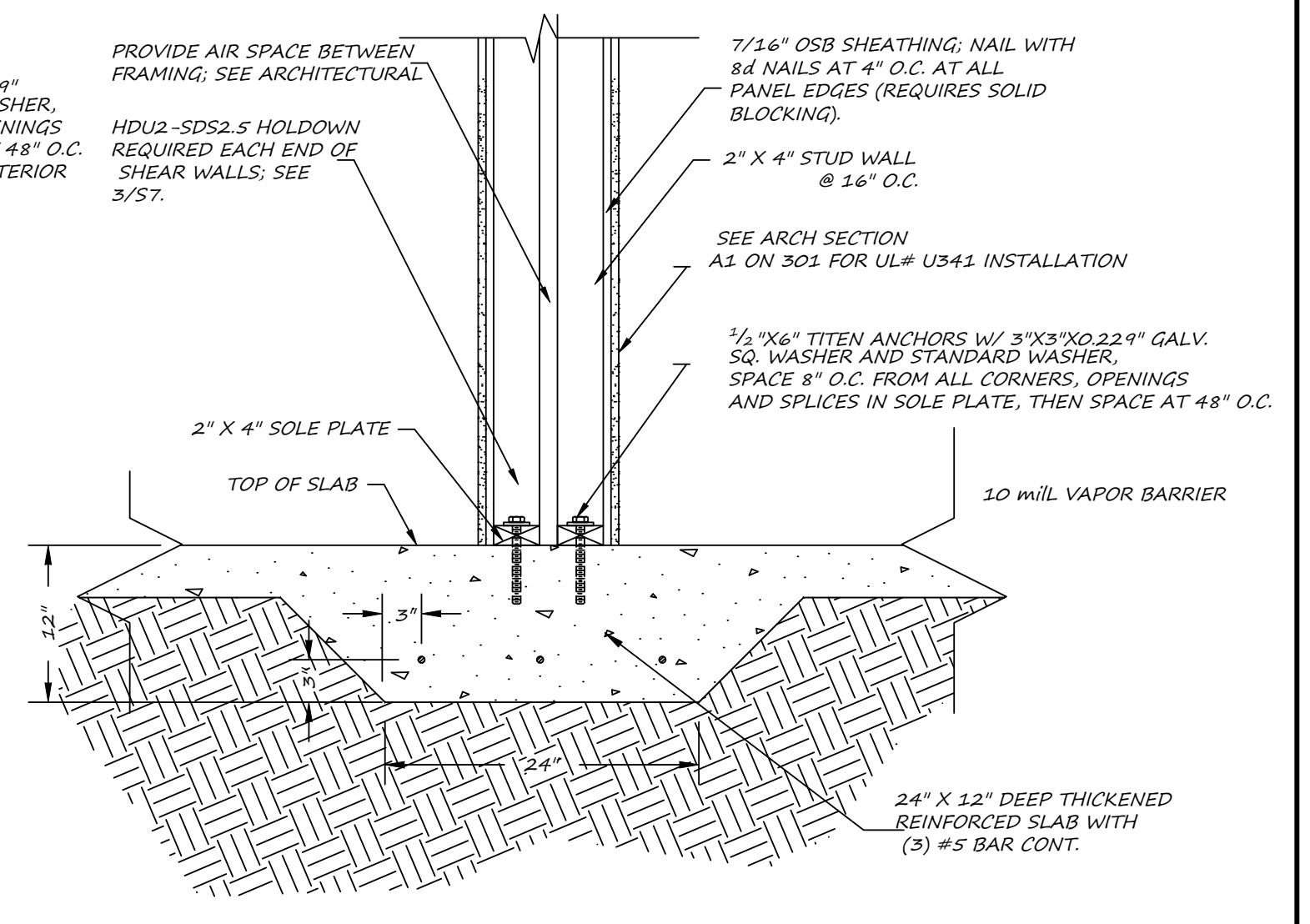
3 CONCRETE WALL SECTION PARR. TO FLOOR TRUSS
SCALE: 1/2" = 1'-0"



4 TURN DOWN SLAB - NO BRICK
SCALE: 1/2" = 1'-0"

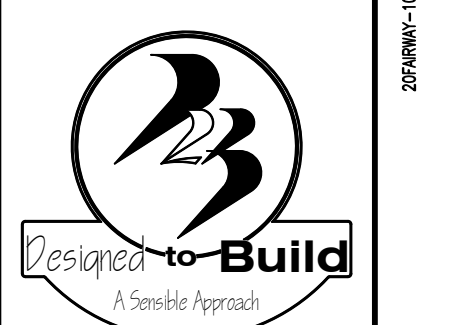


5 INTERIOR THICKENED SLAB SECTION
SCALE: 1/2" = 1'-0"

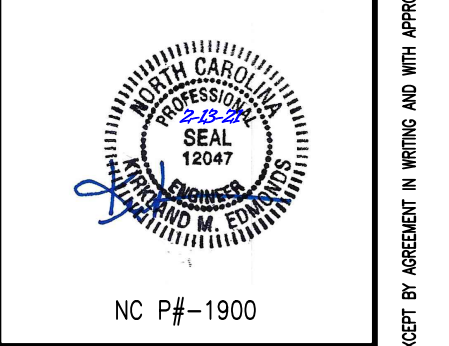


6 SHEAR WALL FND SECTION
SCALE: 1/2" = 1'-0"

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NORTH CAROLINA 28303
TELE. (910) 485-8567
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NC P#-1900

FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

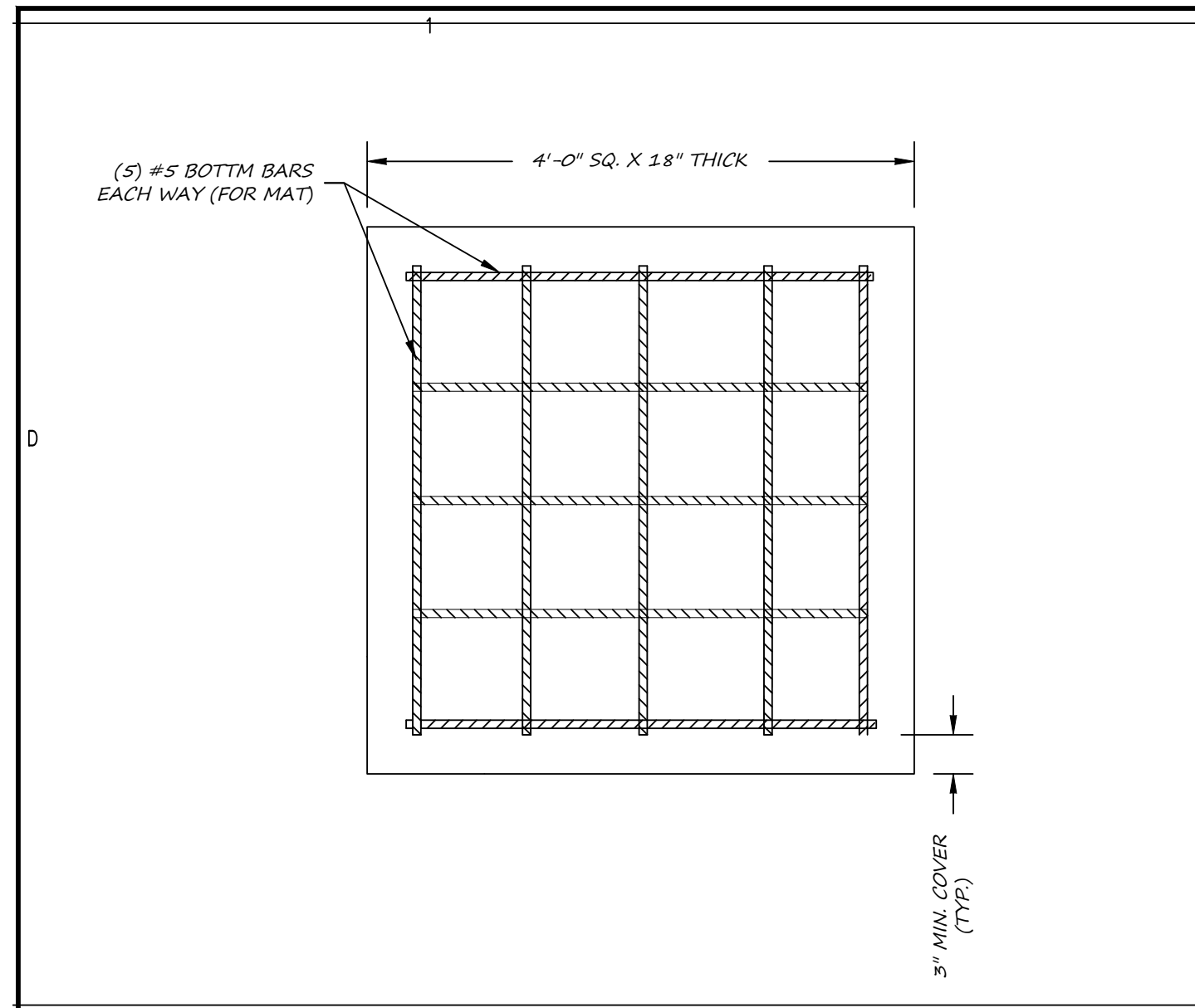
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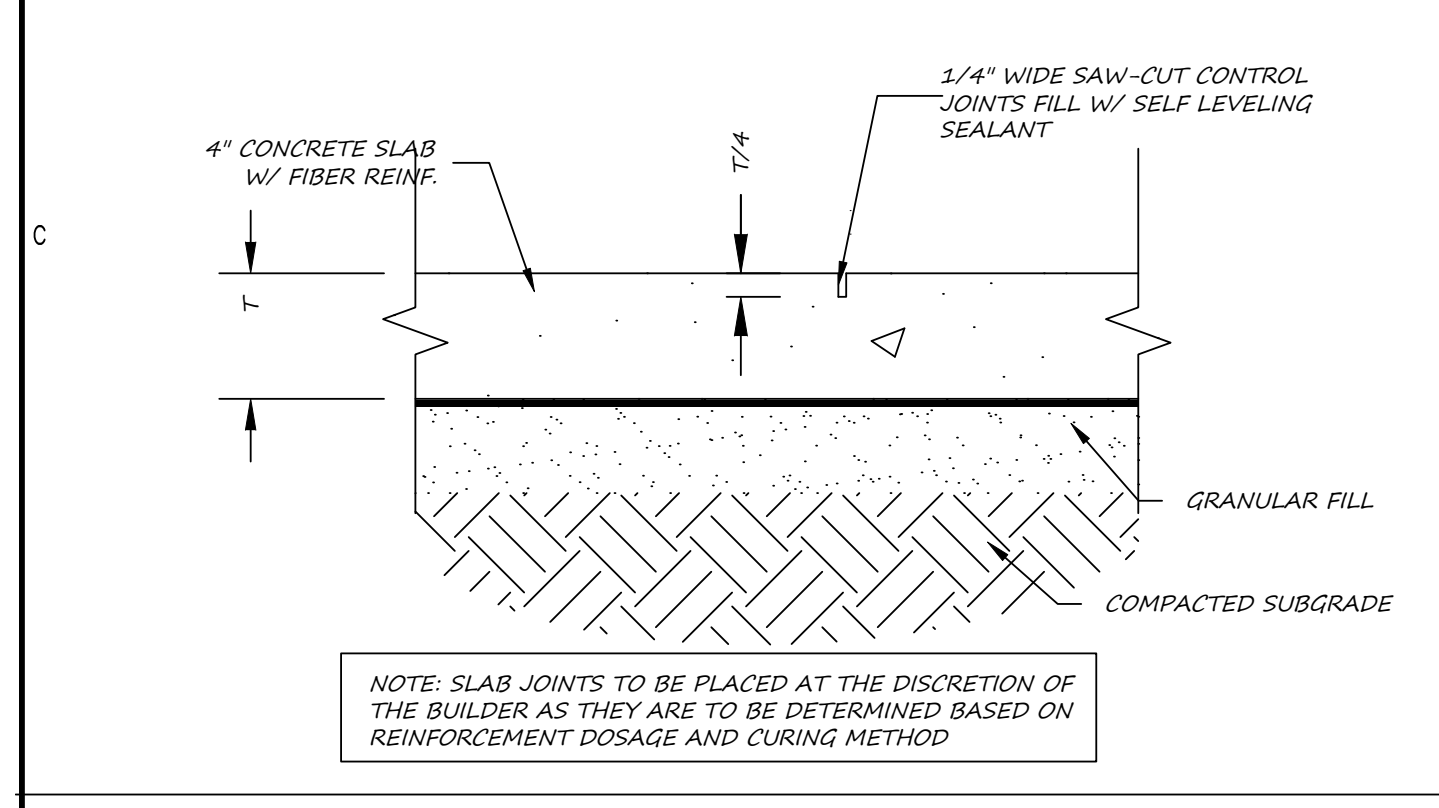
SHEET TITLE:
STRUCTURAL DETAILS

S-6
SHEET 6 OF 7

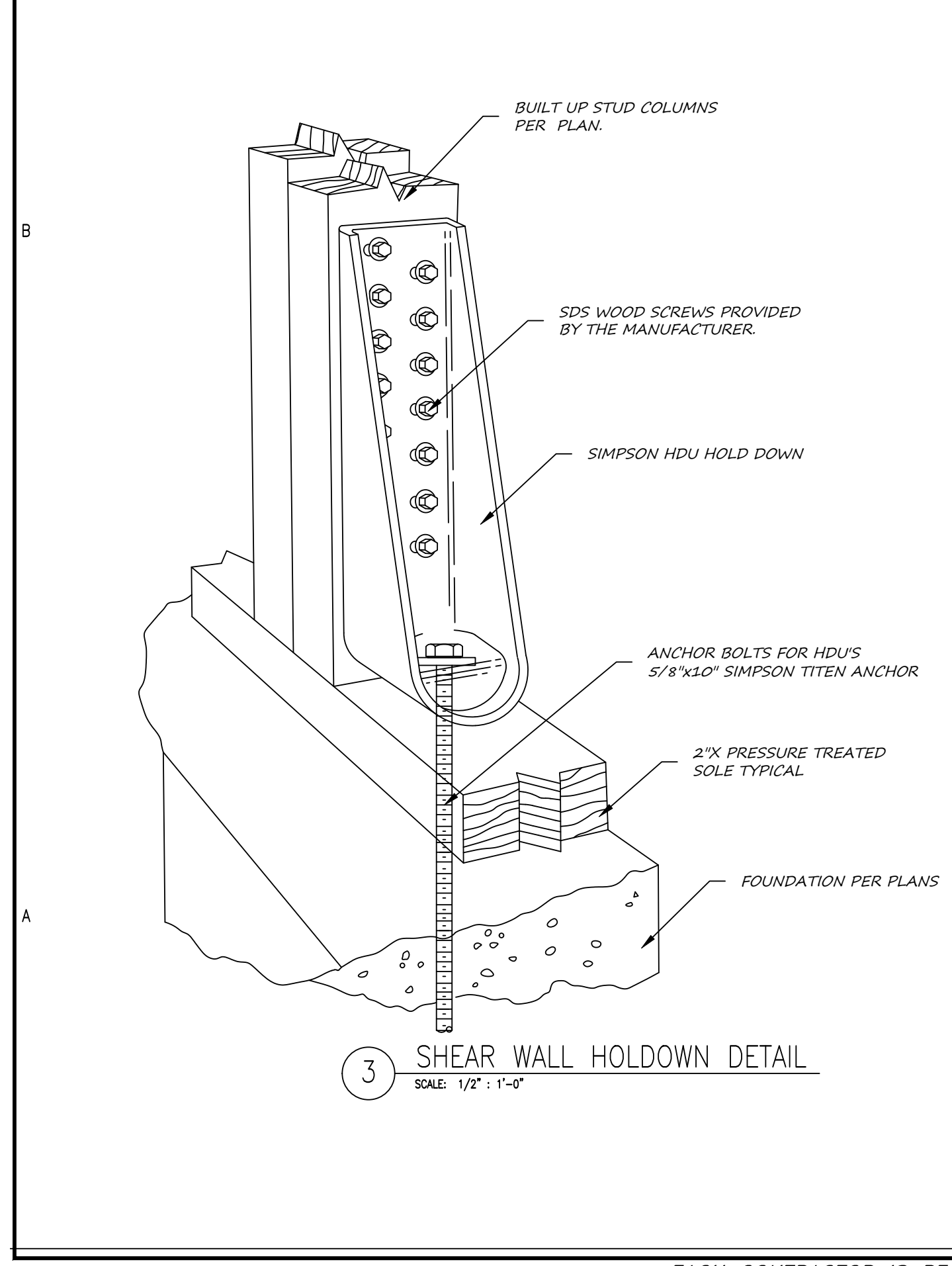
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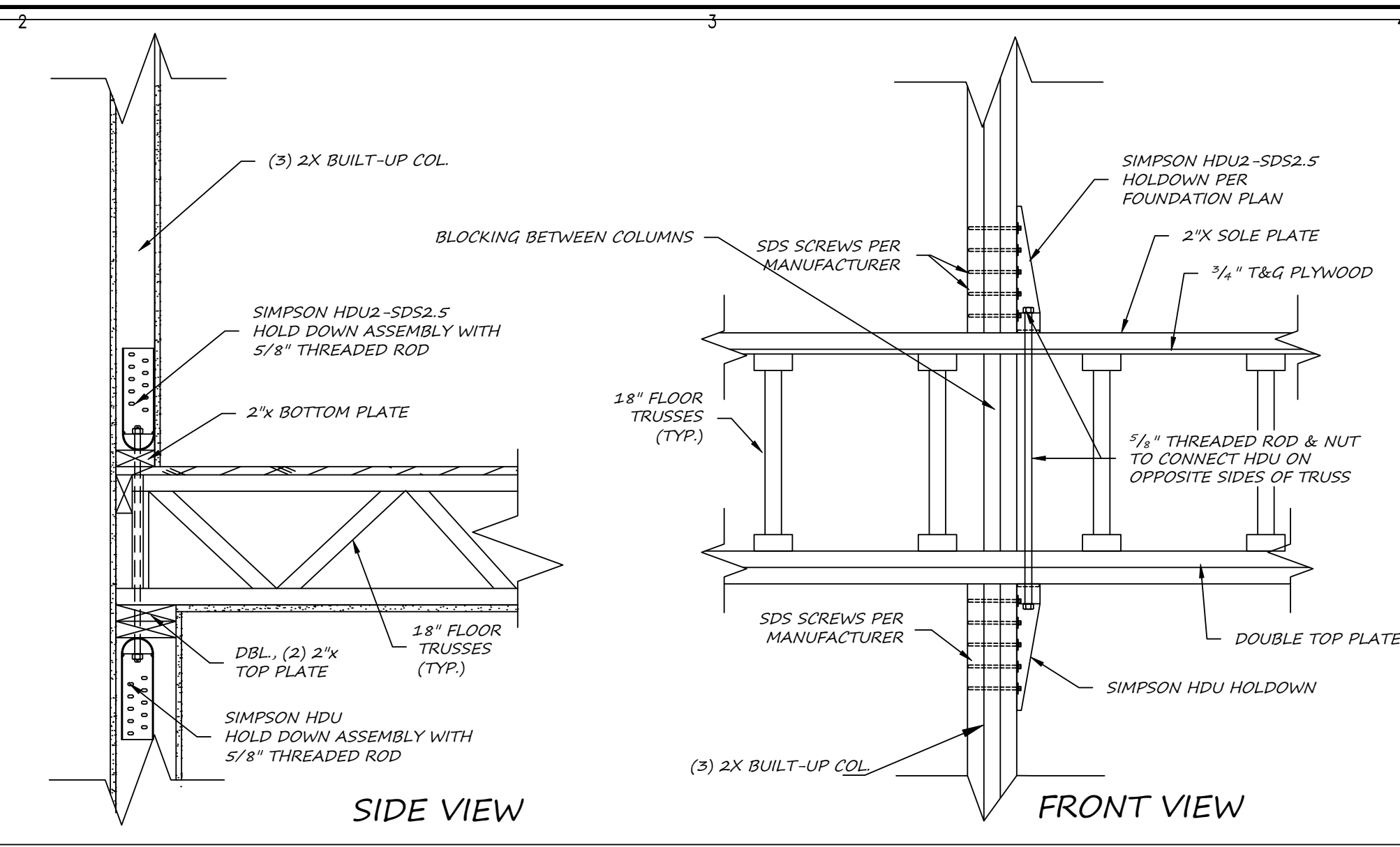
1 SPREAD FOOTING DETAIL
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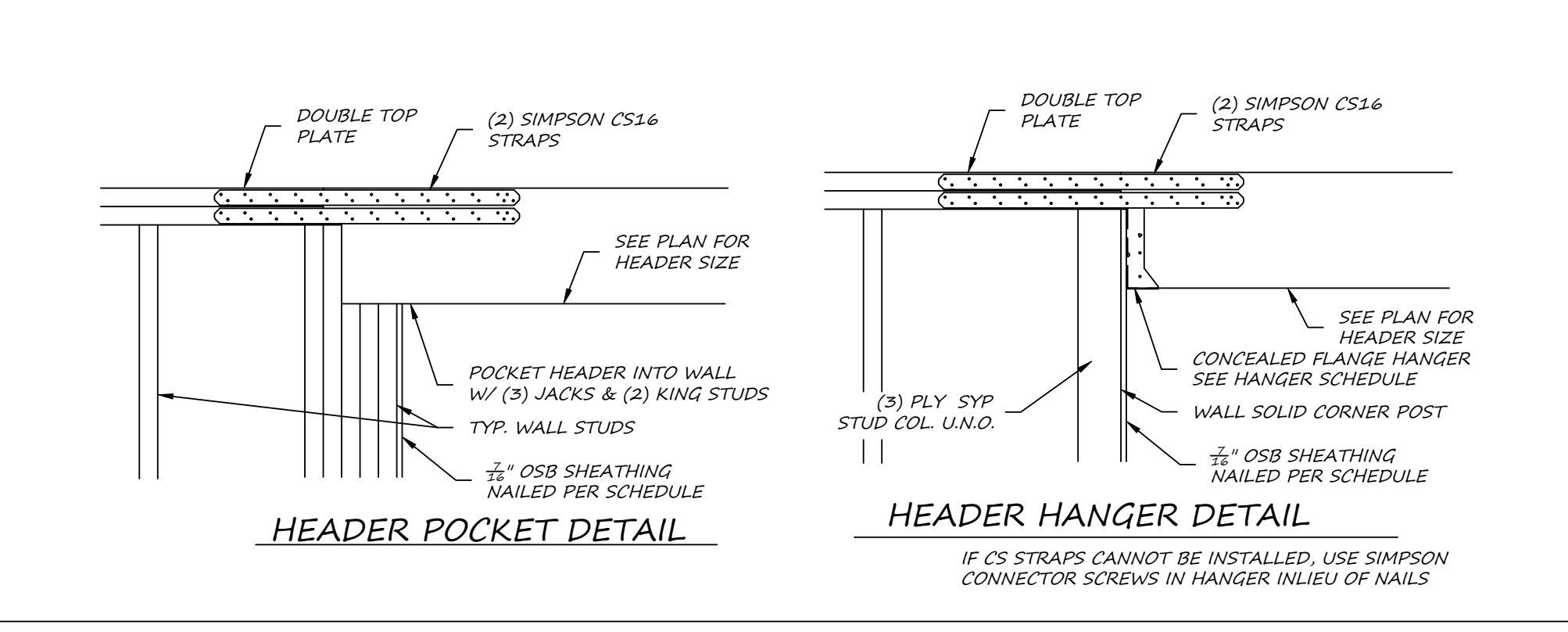
2 SLAB CONTROL JOINT DETAIL
SCALE: 1/2" : 1'-0"



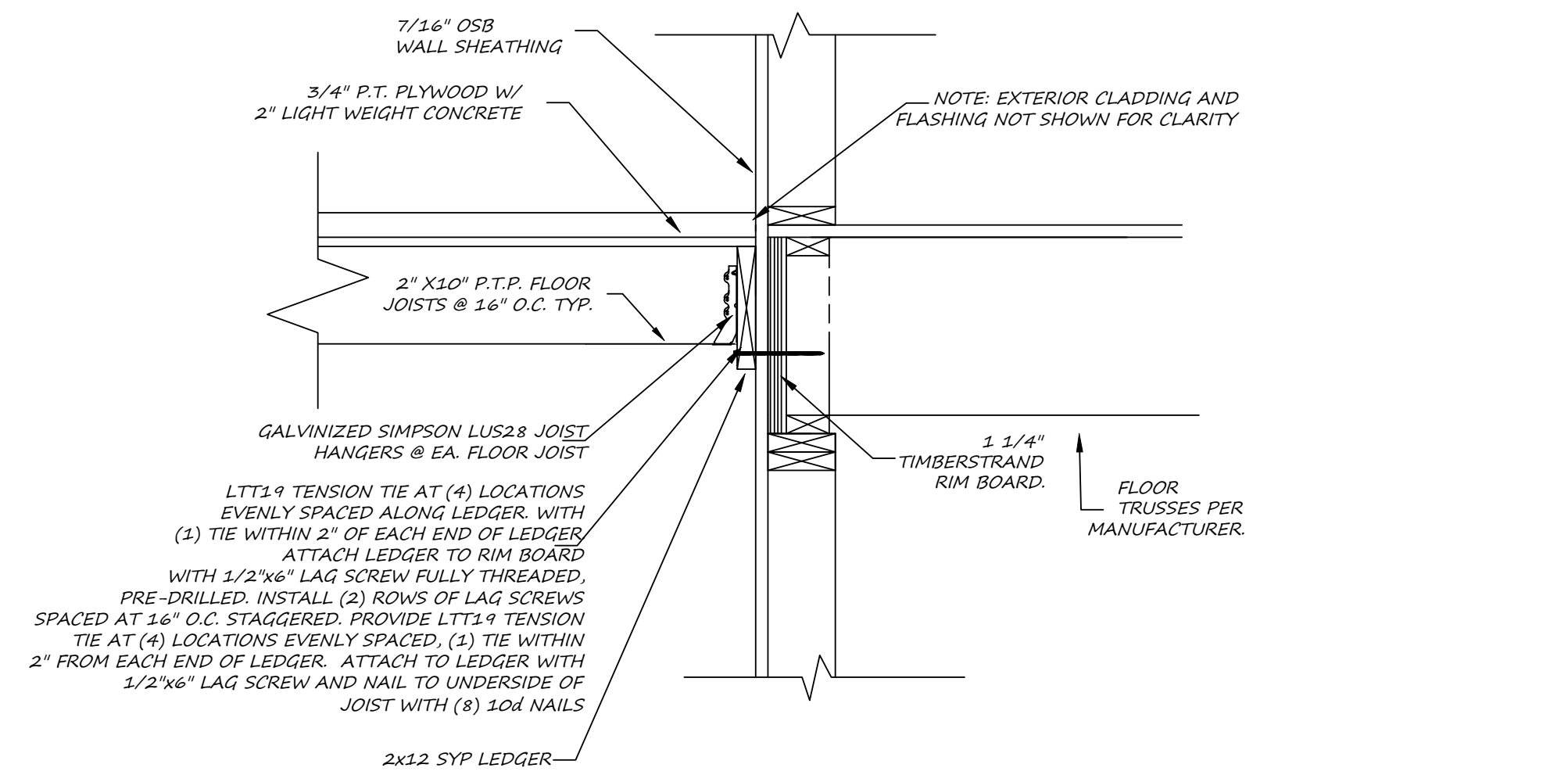
3 SHEAR WALL HOLDDOWN DETAIL
SCALE: 1/2" : 1'-0"



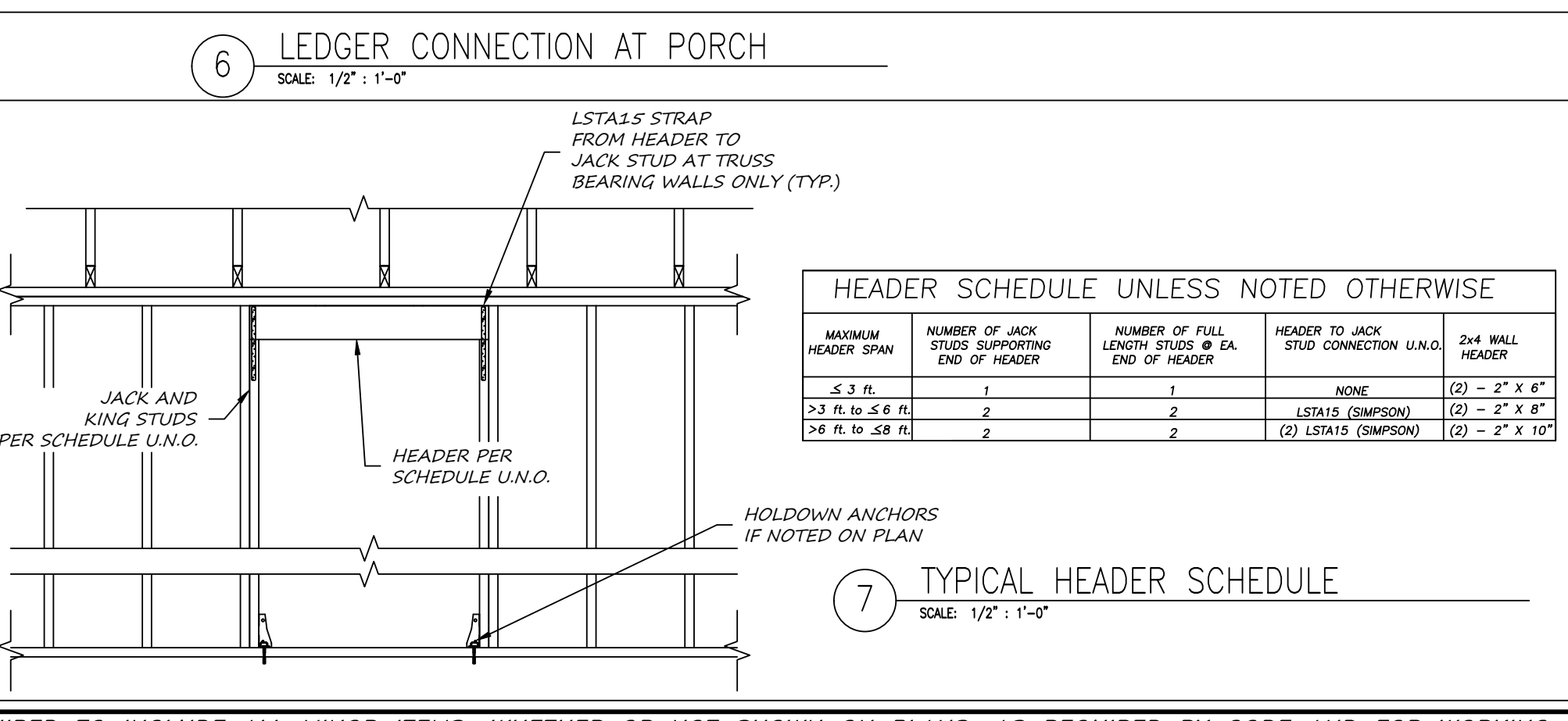
4 SHEARWALL HOLDDOWN FLOOR TO FLOOR
SCALE: 1/2" : 1'-0"



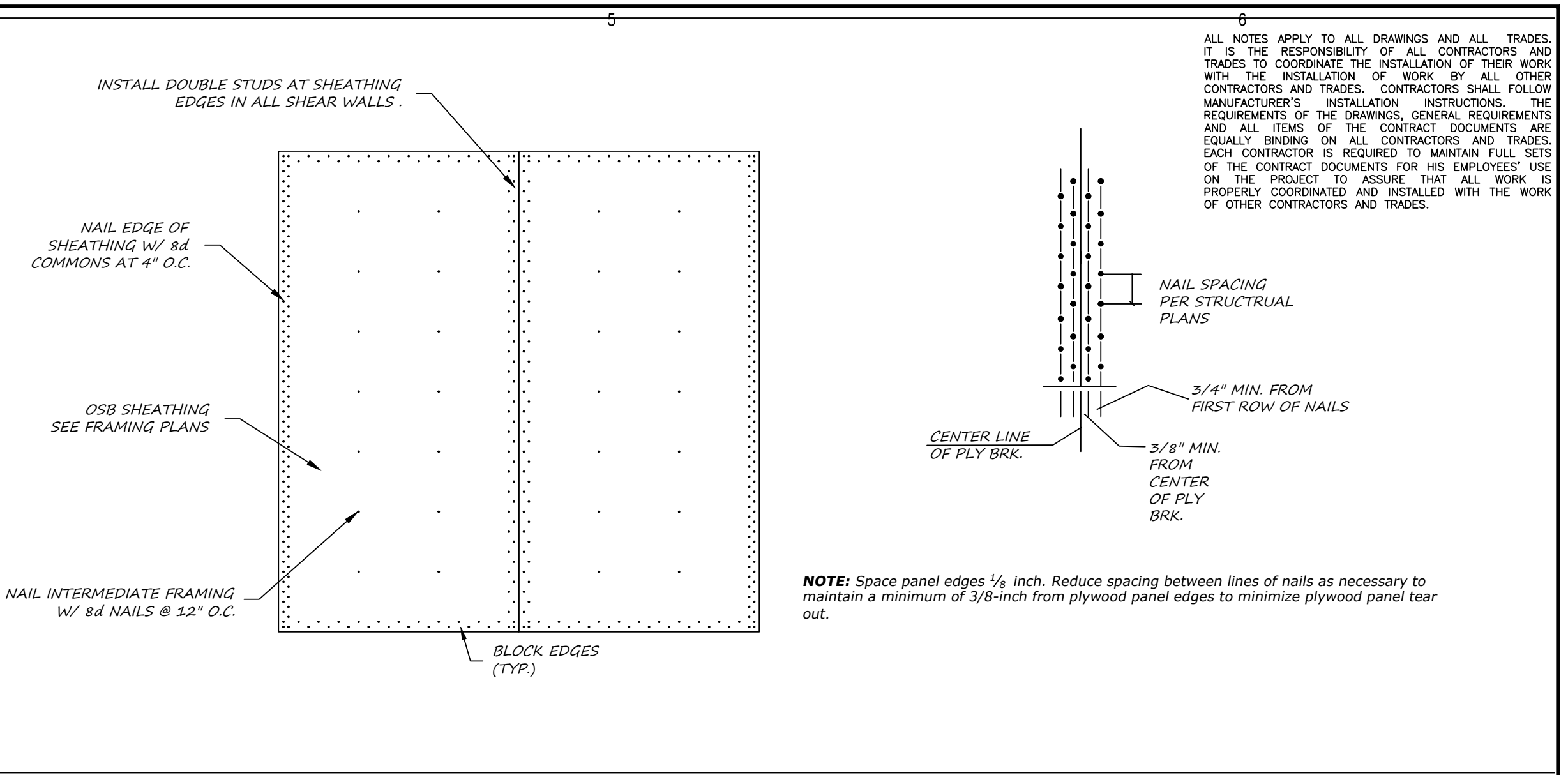
5 PORCH HEADER CONNECTION DETAILS
SCALE: 1/2" : 1'-0"



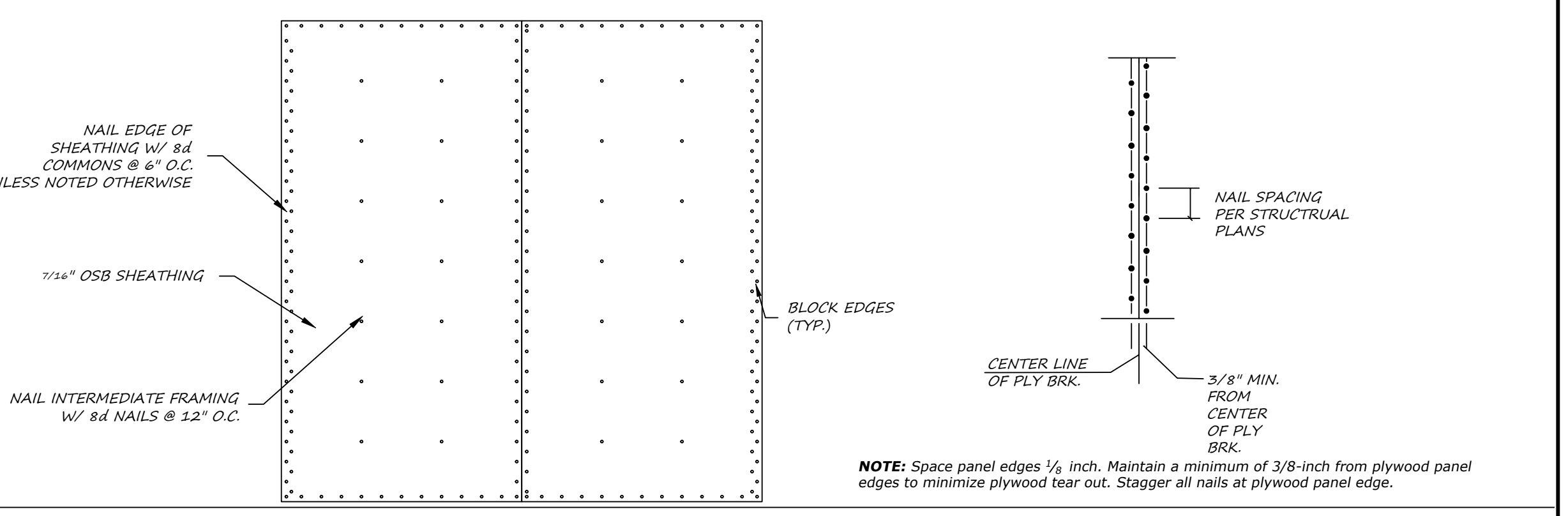
6 LEDGER CONNECTION AT PORCH
SCALE: 1/2" : 1'-0"



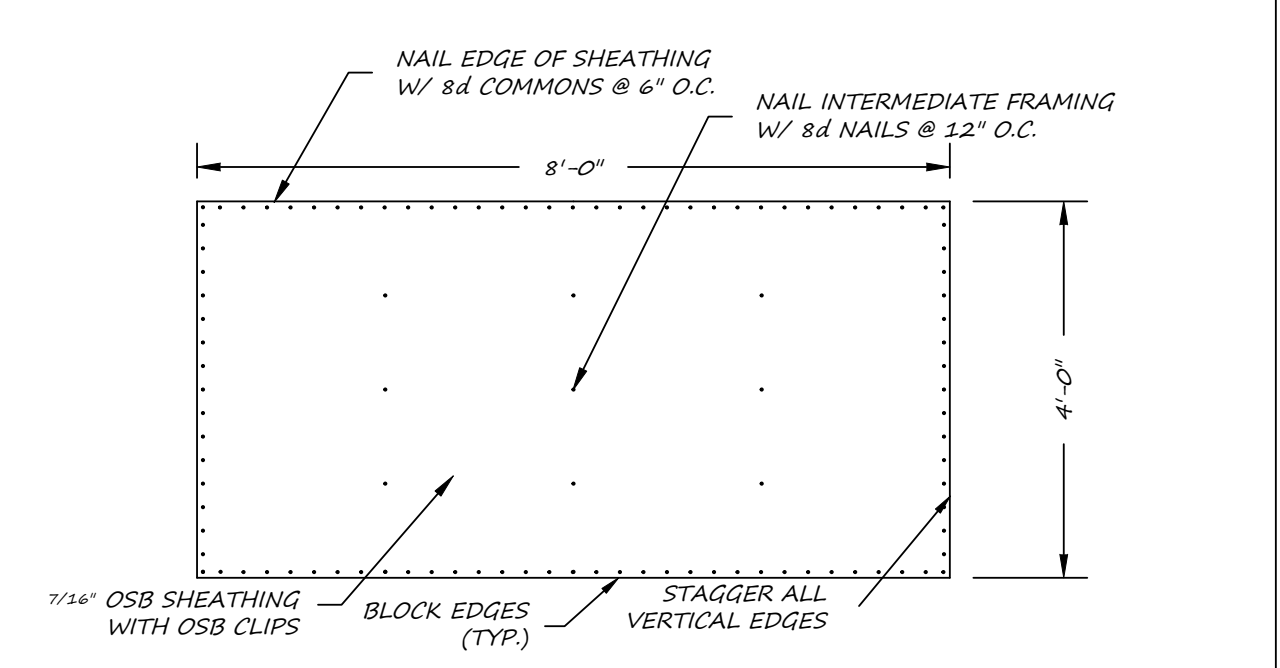
7 TYPICAL HEADER SCHEDULE
SCALE: 1/2" : 1'-0"



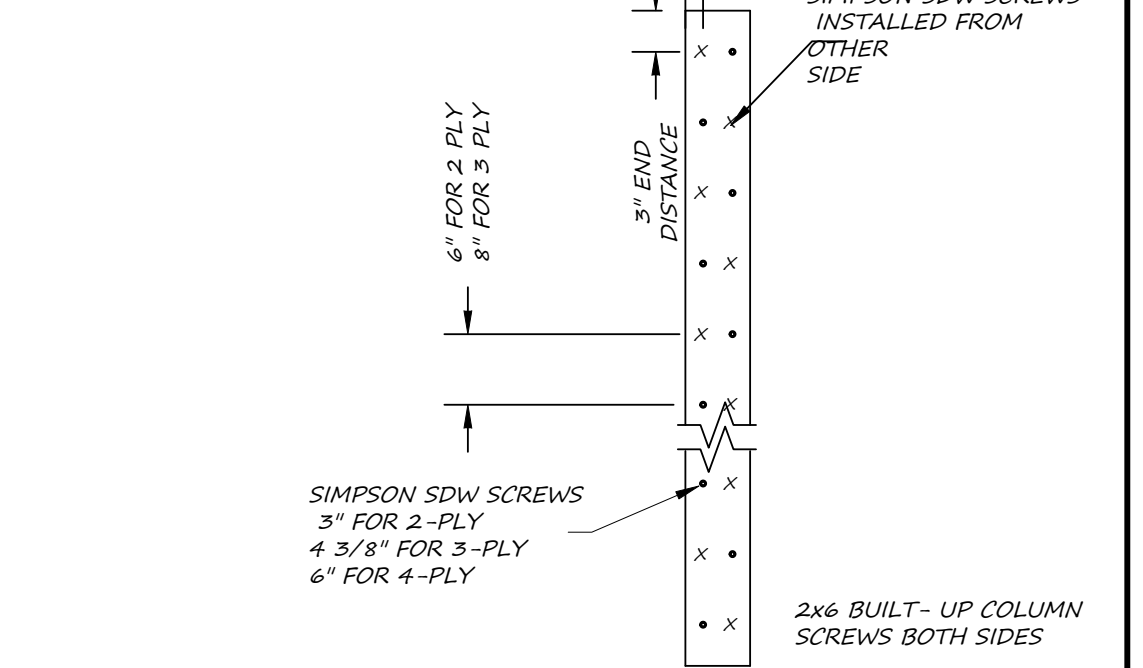
8 SHEARWALL NAILING DETAIL
SCALE: 1/2" : 1'-0"



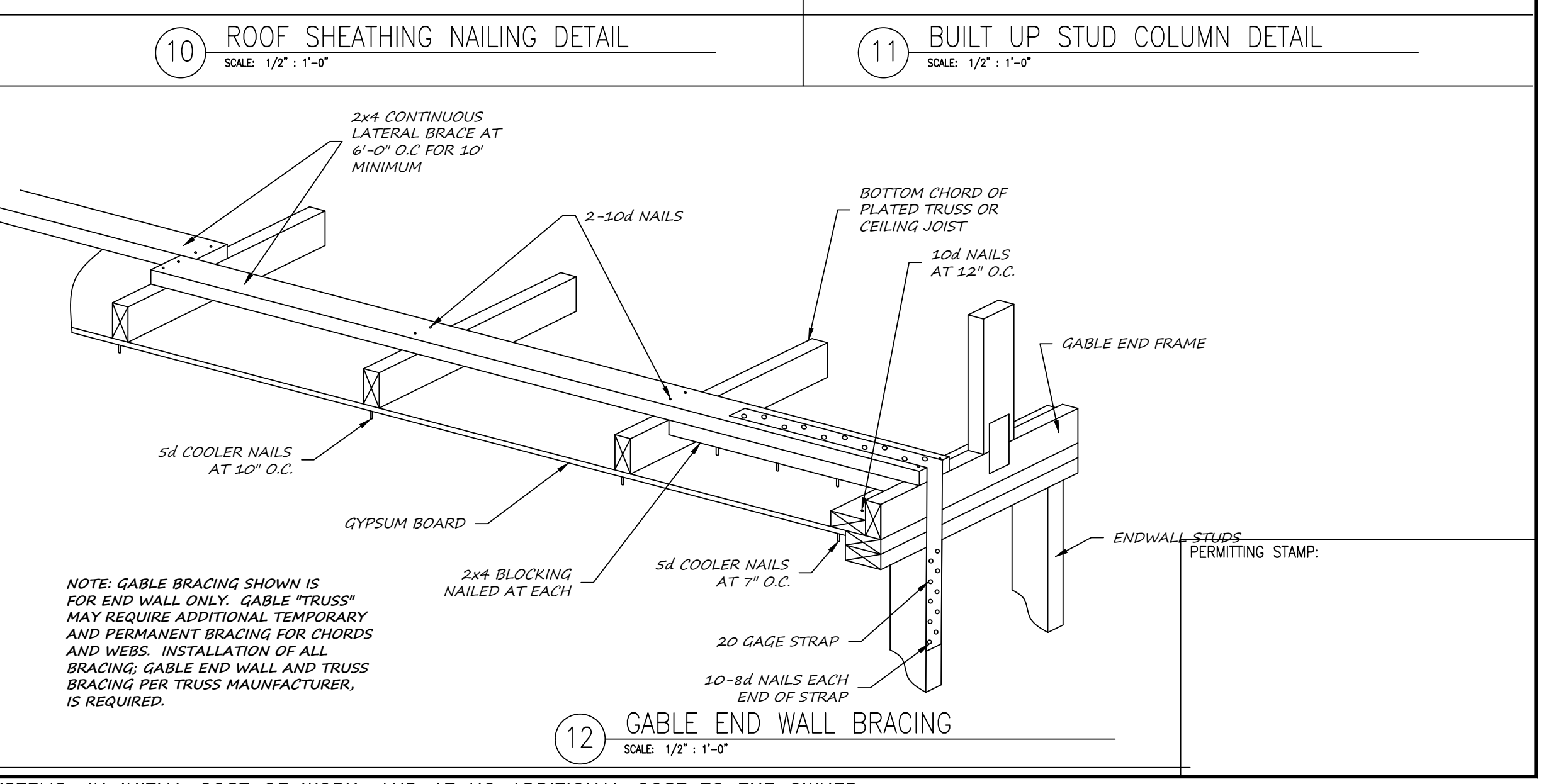
9 EXTERIOR WALL NAILING DETAIL
SCALE: 1/2" : 1'-0"



10 ROOF SHEATHING NAILING DETAIL
SCALE: 1/2" : 1'-0"

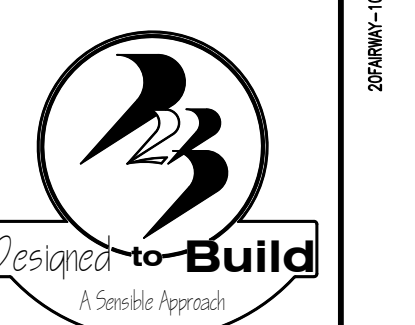


11 BUILT UP STUD COLUMN DETAIL
SCALE: 1/2" : 1'-0"

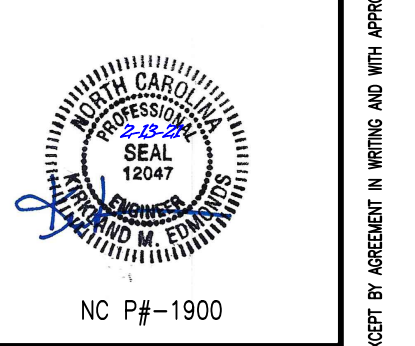


12 GABLE END WALL BRACING
SCALE: 1/2" : 1'-0"

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.



ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

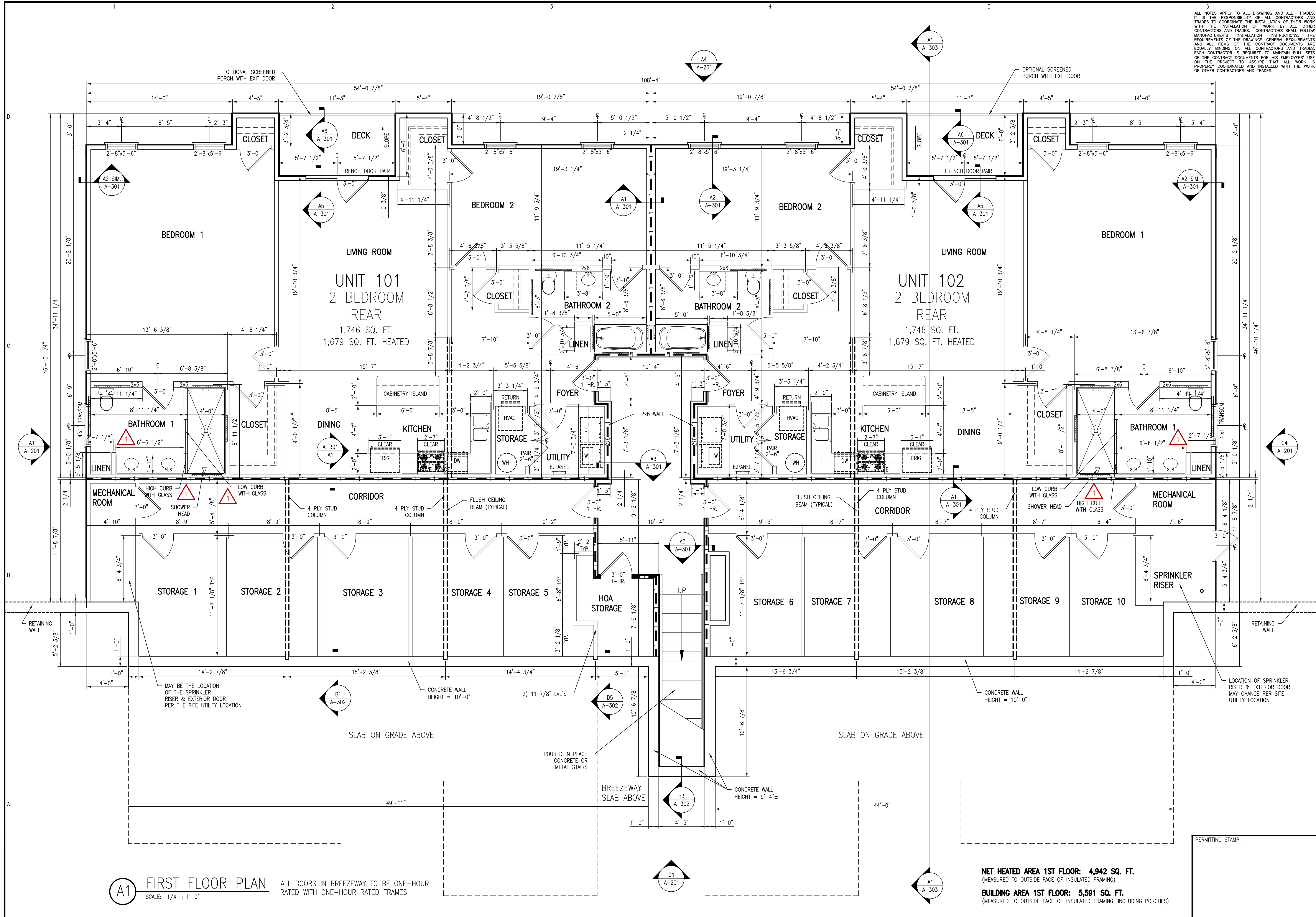
NO.	DATE	DESCRIPTION	CHK

JOB CODE: 20FAIRWAY-10
DRAWN BY: KME
CHECKED BY: K. EDMONDS
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SHEET TITLE:
STRUCTURAL DETAILS

S-7
SHEET 7 OF 7

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A1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

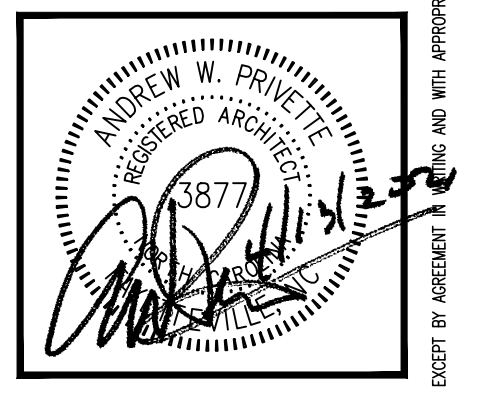
ALL DOORS IN BREEZEWAY TO BE ONE-HOUR RATED WITH ONE-HOUR RATED FRAMES

NET HEATED AREA 1ST FLOOR: 4,942 SQ. FT.
(MEASURED TO OUTSIDE FACE OF INSULATED FRAMING)
BUILDING AREA 1ST FLOOR: 5,591 SQ. FT.
(MEASURED TO OUTSIDE FACE OF INSULATED FRAMING, INCLUDING PORCHES)

PERMITTING STAMP:



ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING —
SPRING LAKE, NORTH CAROLINA 28390

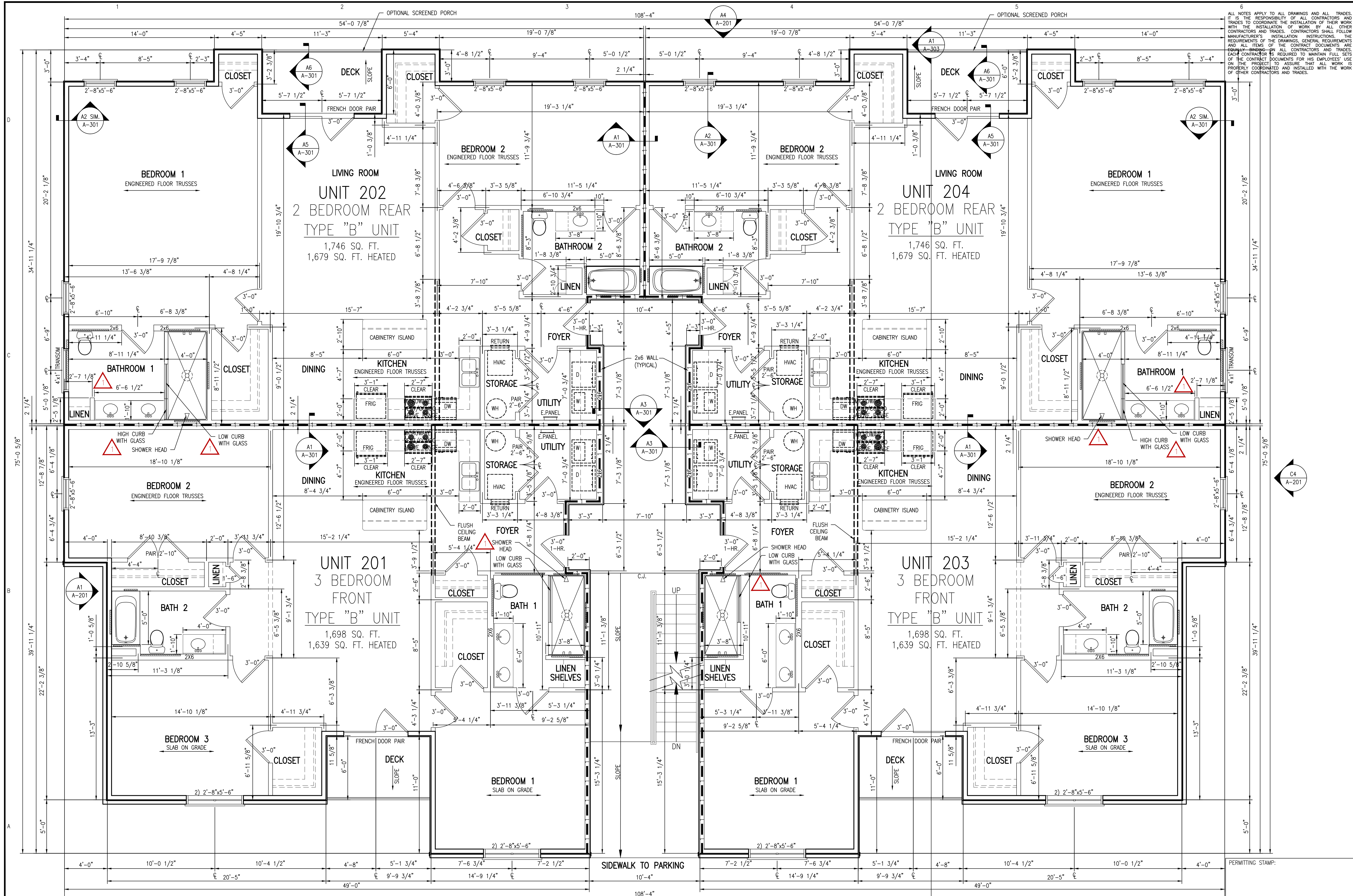
NO.	DATE	DESCRIPTION	BY	CHK
1	11-30-22	ISSUE PERMITTED FOR CLIENT'S REVIEW	AWP	
2	11-30-22	ISSUE PERMITTED FOR CLIENT'S REVIEW	AWP	
3	11-30-22	ISSUE PERMITTED FOR CLIENT'S REVIEW	AWP	

JOB CODE: 20FAIRWAY-10
DRAWN BY: S.S.TOPE
CHECKED BY: A. PRIVETTE
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SHEET TITLE:
FIRST FLOOR DIMENSION PLAN
UPDATED 11-30-2022

A-101
SHEET 1 OF 8

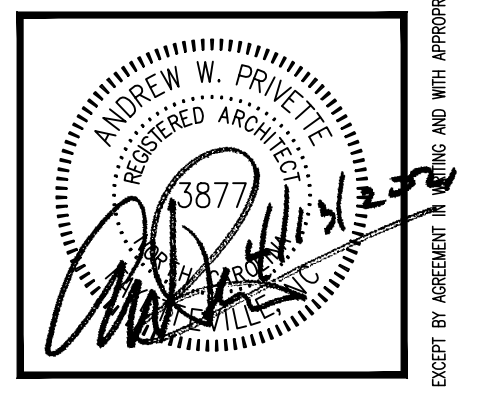
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ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING —
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	CHK

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 DRAWN BY: S.S.TOPE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
 SECOND FLOOR
 DIMENSION PLAN
 ACCESSIBLE LEVEL
 UPDATED 11-30-2022

A-102
 SHEET 2 OF 8

A1 SECOND FLOOR PLAN
 SCALE: 1/4" = 1'-0"

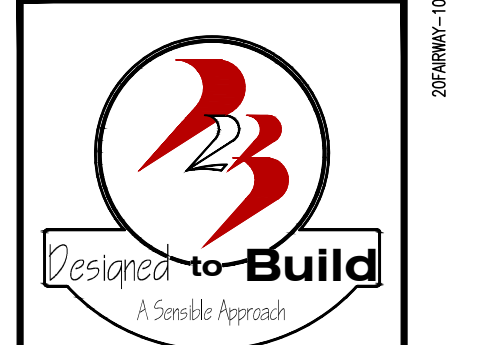
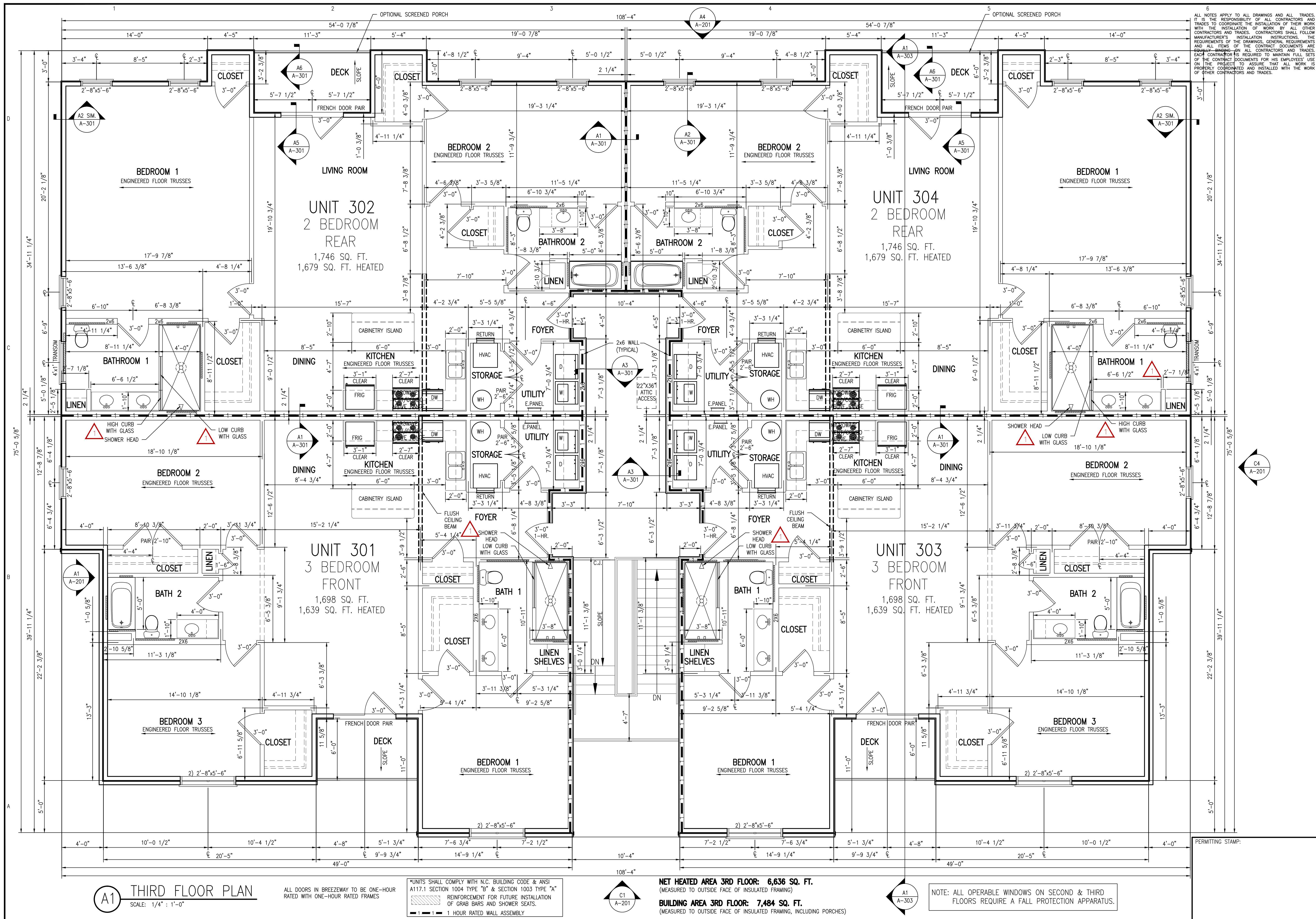
ALL DOORS IN BREEZEWAY TO BE ONE-HOUR RATED WITH ONE-HOUR RATED FRAMES

*UNITS SHALL COMPLY WITH N.C. BUILDING CODE & ANSI A117.1 SECTION 1004 TYPE "B" & SECTION 1003 TYPE "A" REINFORCEMENT FOR FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS.

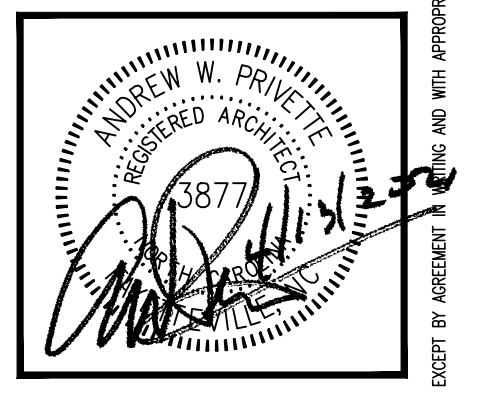
NET HEATED AREA 2ND FLOOR: 6,636 SQ. FT. (MEASURED TO OUTSIDE FACE OF INSULATED FRAMING)
 BUILDING AREA 2ND FLOOR: 7,484 SQ. FT. (MEASURED TO OUTSIDE FACE OF INSULATED FRAMING, INCLUDING PORCHES)

NOTE: ALL OPERABLE WINDOWS ON SECOND & THIRD FLOORS REQUIRE A FALL PROTECTION APPARATUS.

EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER. ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS BY THE OWNER OR CONTRACTOR MUST BE APPROVED BY THE ARCHITECT IN WRITING AND PRIOR TO CONSTRUCTION. COPYRIGHT © ALL RIGHTS RESERVED BY DESIGNED TO BUILD. NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION.



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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING —
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	CHK

JOB CODE: Z0FAIRWAY-10
 DRAWN BY: S.S.TOPE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE:
THIRD FLOOR DIMENSION PLAN
 UPDATED 11-30-2022

A-103
 SHEET 3 OF 8

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE THE EQUIVALENTS ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

Z0FAIRWAY-10

Z0FAIRWAY-10

A1 THIRD FLOOR PLAN
 SCALE: 1/4" = 1'-0"

ALL DOORS IN BREEZEWAY TO BE ONE-HOUR RATED WITH ONE-HOUR RATED FRAMES

*UNITS SHALL COMPLY WITH N.C. BUILDING CODE & ANSI A117.1 SECTION 1004 TYPE "B" & SECTION 1003 TYPE "A"
 REINFORCEMENT FOR FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS.
 1 HOUR RATED WALL ASSEMBLY

NET HEATED AREA 3RD FLOOR: 6,636 SQ. FT.
 (MEASURED TO OUTSIDE FACE OF INSULATED FRAMING)
BUILDING AREA 3RD FLOOR: 7,484 SQ. FT.
 (MEASURED TO OUTSIDE FACE OF INSULATED FRAMING, INCLUDING PORCHES)

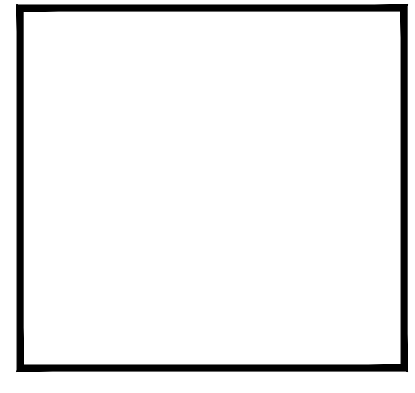
NOTE: ALL OPERABLE WINDOWS ON SECOND & THIRD FLOORS REQUIRE A FALL PROTECTION APPARATUS.

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6
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 andy@designedtobuild.com



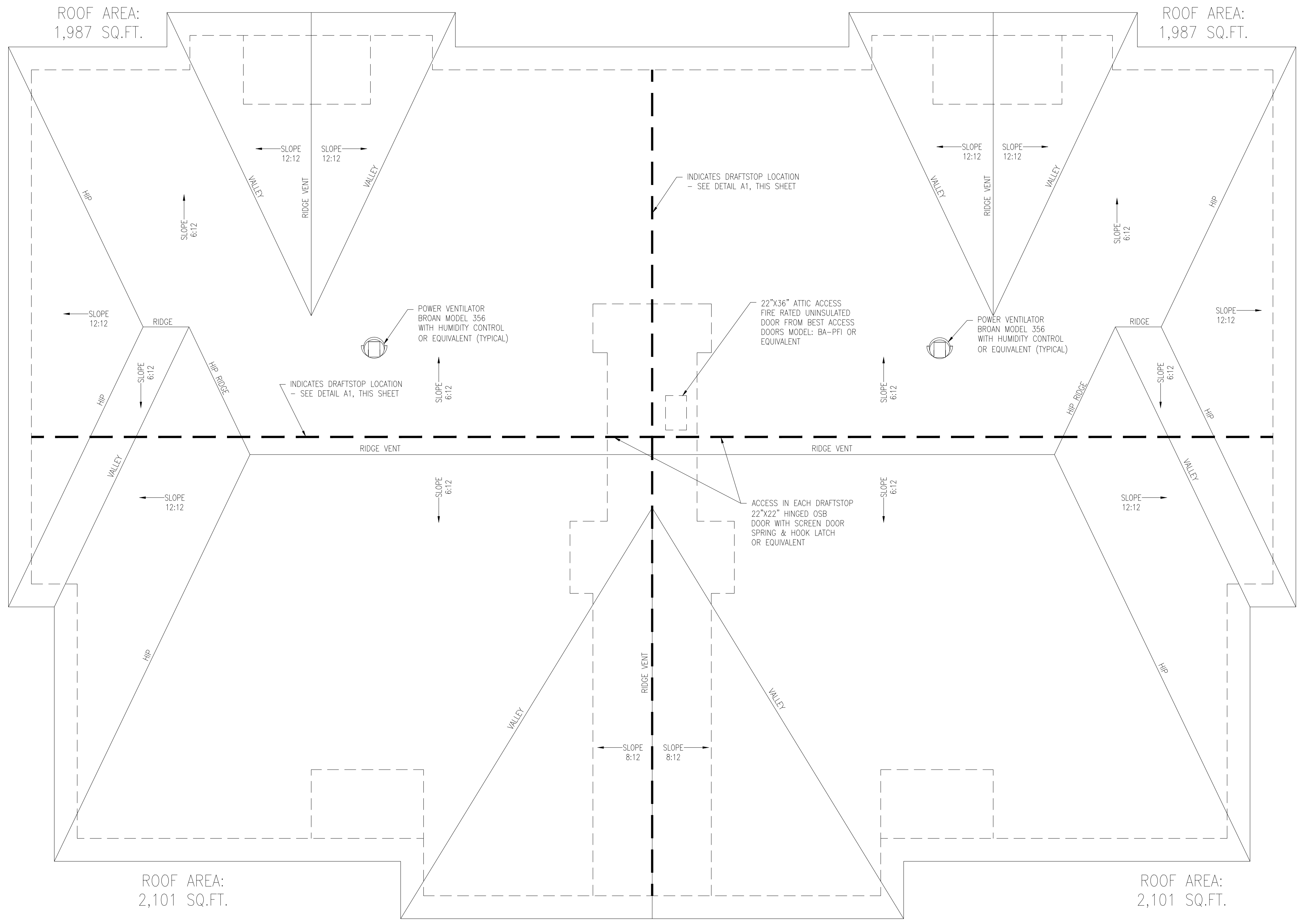
FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING —
 SPRING LAKE, NORTH CAROLINA 28390

DATE	DESCRIPTION	APP.	CHK.
4-13-21	PERMIT-CONSTRUCTION SET		
	PERMIT MARK		

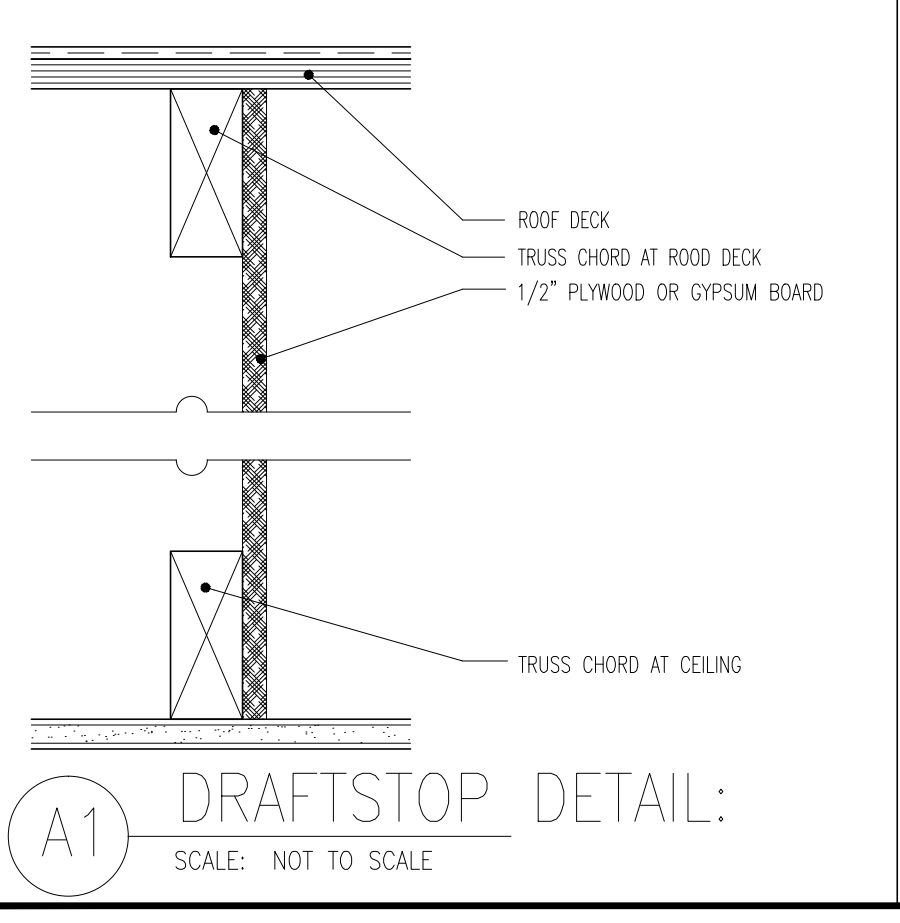
JOB CODE: 20FAIRWAY-10
 DRAWN BY: S.S.TOPE
 CHECKED BY: A. PRIVETTE
 COPYRIGHT:
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SHEET TITLE:
 ROOF PLAN

A-104
 SHEET 4 OF 8



A2 ROOF PLAN
 SCALE: 3/16" : 1'-0"



A1 DRAFTSTOP DETAIL:
 SCALE: NOT TO SCALE

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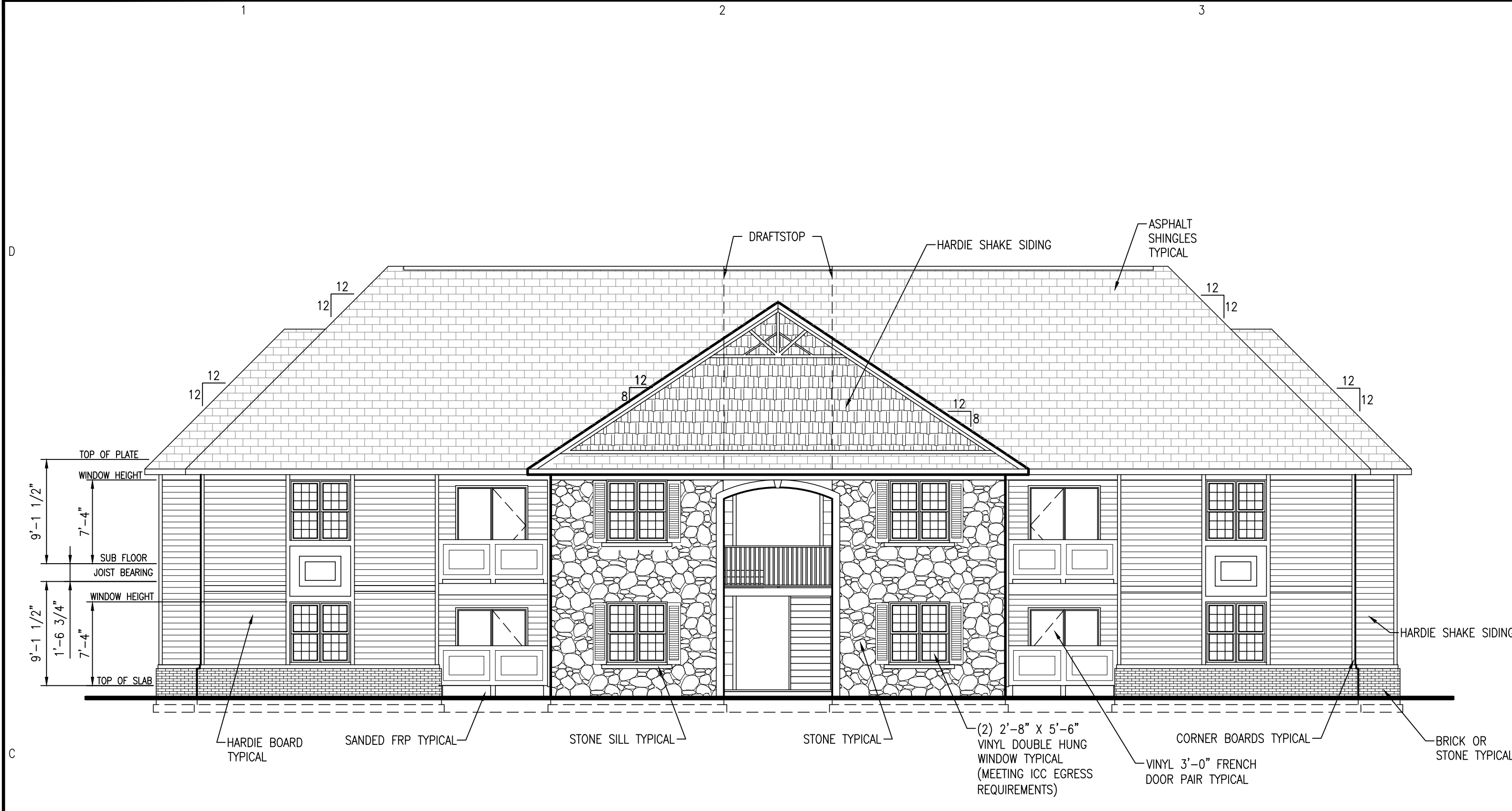
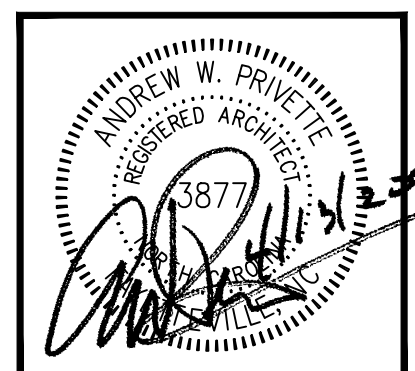
PERMITTING STAMP:

20FAIRWAY-10

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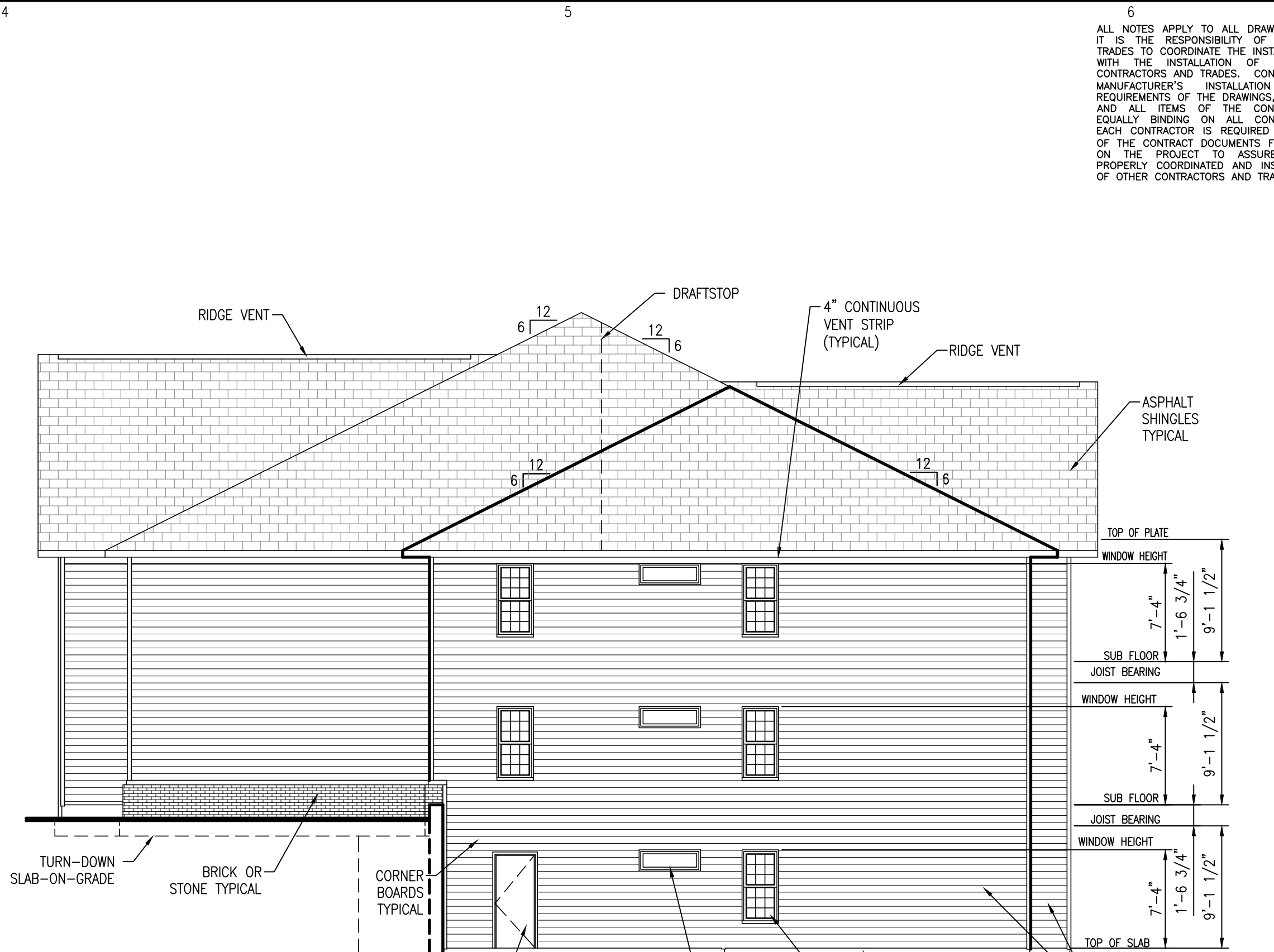
ANDREW W. PRIVETTE, AIA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com



C1 FRONT ELEVATION
 SCALE: 1/8" = 1'-0"

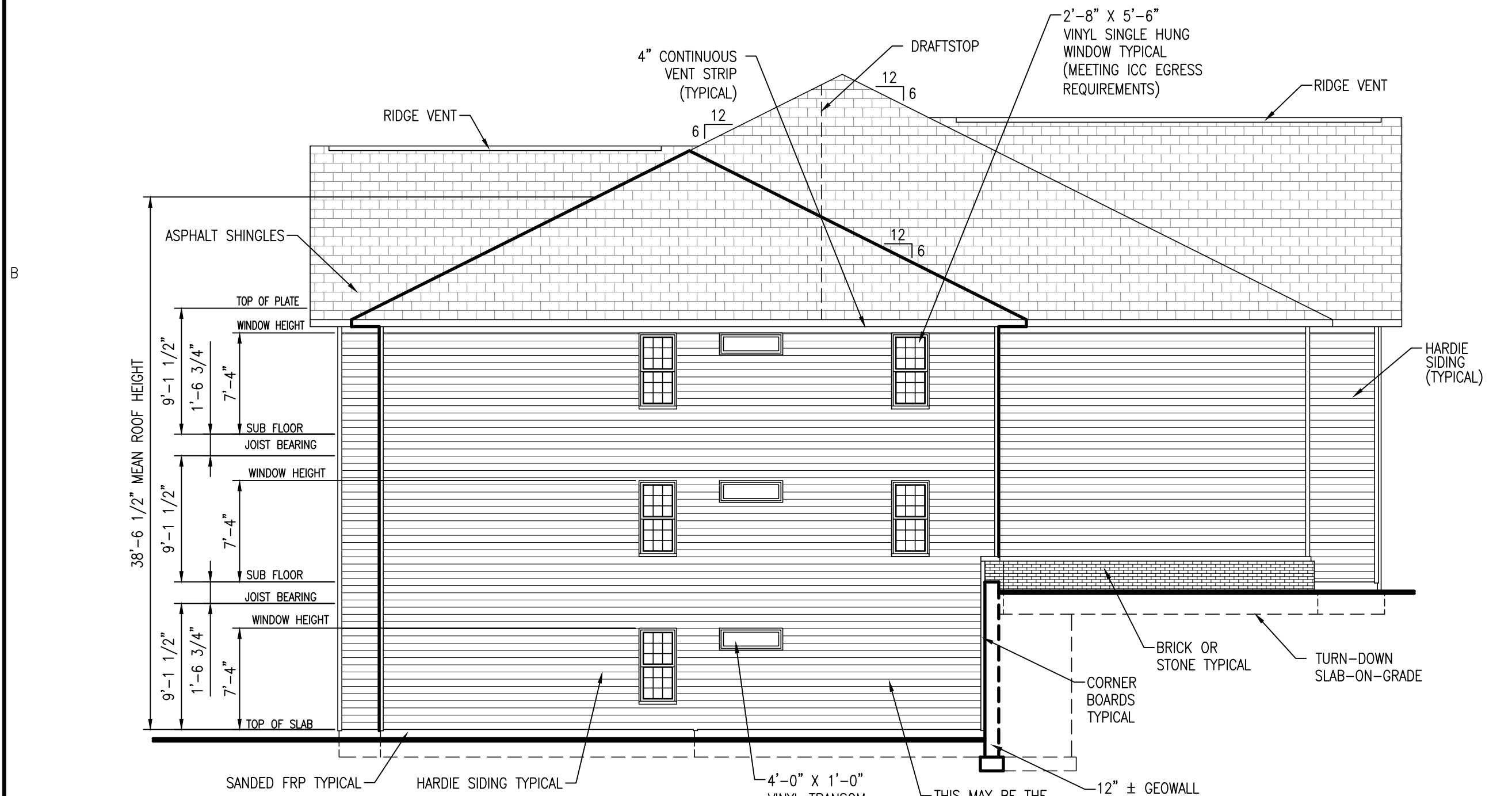
NOTE: ALL OPERABLE WINDOWS ON SECOND & THIRD FLOORS REQUIRE A FALL PROTECTION APPARATUS.

GENERAL NOTES:
 SEE OWNER/CONTRACTOR FOR SIDING AND WOOD TRIM SPECS.
 ADDRESS NUMBERING PER N.C. CODE VOL. V 603.17
 ATTIC VENTILATION - 1524 S.F./300 = 5.08 S.F. PER UNIT - 6.30 S.F. PROVIDED
 ATTIC VENTILATION @ CORRIDOR - 297 S.F./300 = 0.99 S.F. - 2.60 S.F. PROVIDED



C4 RIGHT ELEVATION
 SCALE: 1/8" = 1'-0"

NOTE: ALL OPERABLE WINDOWS ON SECOND & THIRD FLOORS REQUIRE A FALL PROTECTION APPARATUS.



A1 LEFT ELEVATION
 SCALE: 1/8" = 1'-0"

NOTE: ALL OPERABLE WINDOWS ON SECOND & THIRD FLOORS REQUIRE A FALL PROTECTION APPARATUS.



A4 REAR ELEVATION
 SCALE: 1/8" = 1'-0"

NOTE: ALL OPERABLE WINDOWS ON SECOND & THIRD FLOORS REQUIRE A FALL PROTECTION APPARATUS.

FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING —
 SPRING LAKE, NORTH CAROLINA 28390

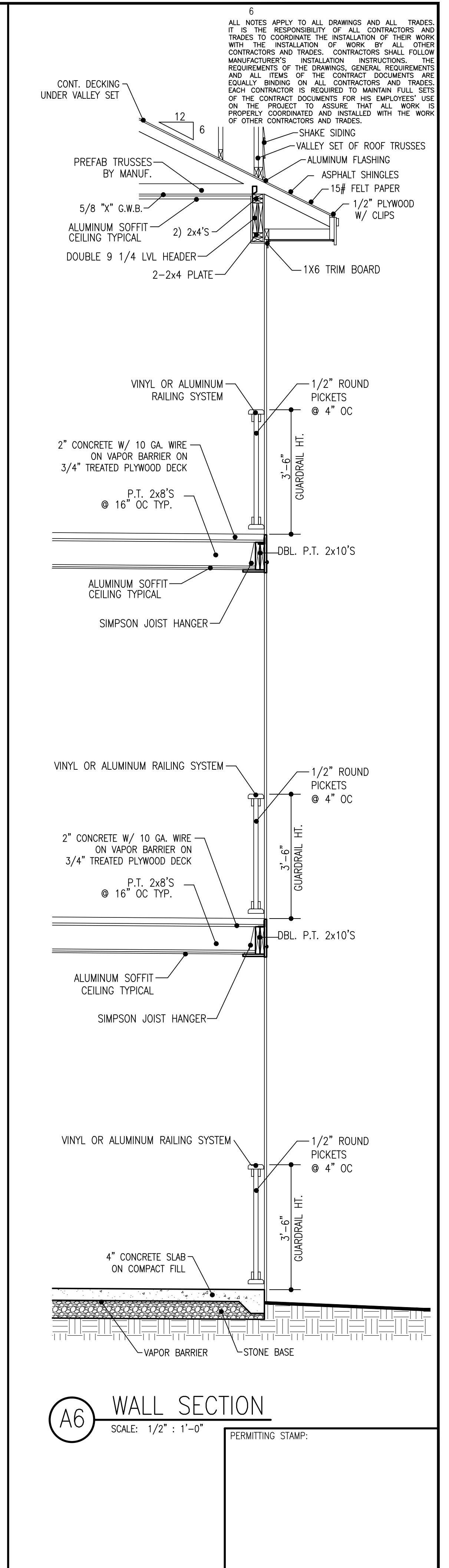
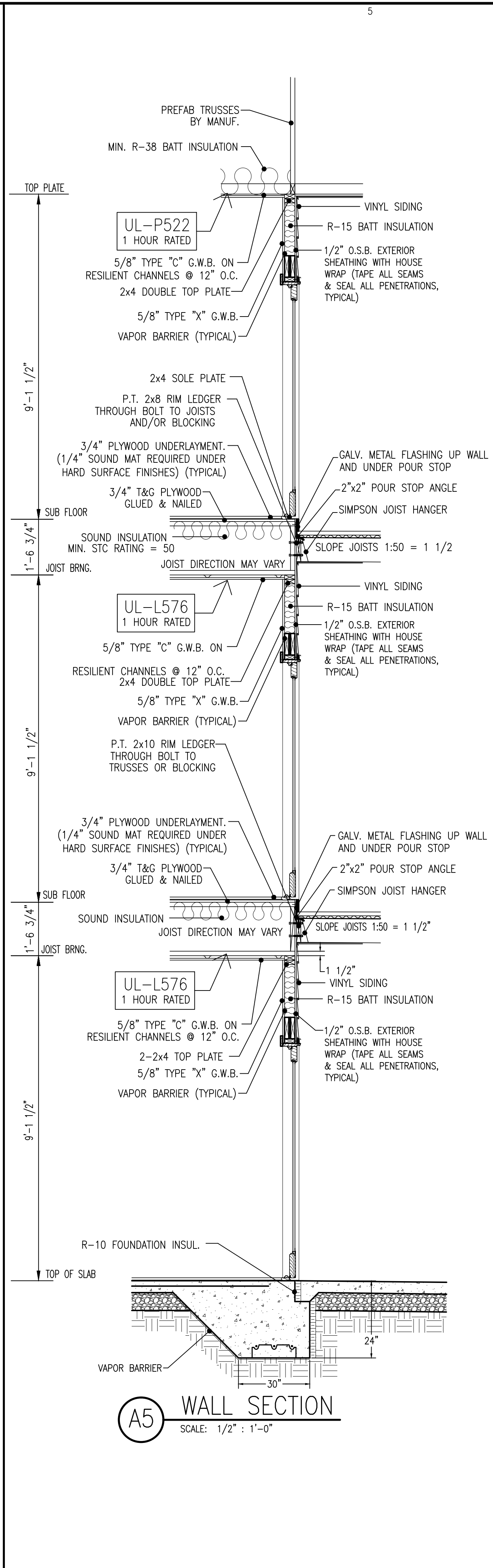
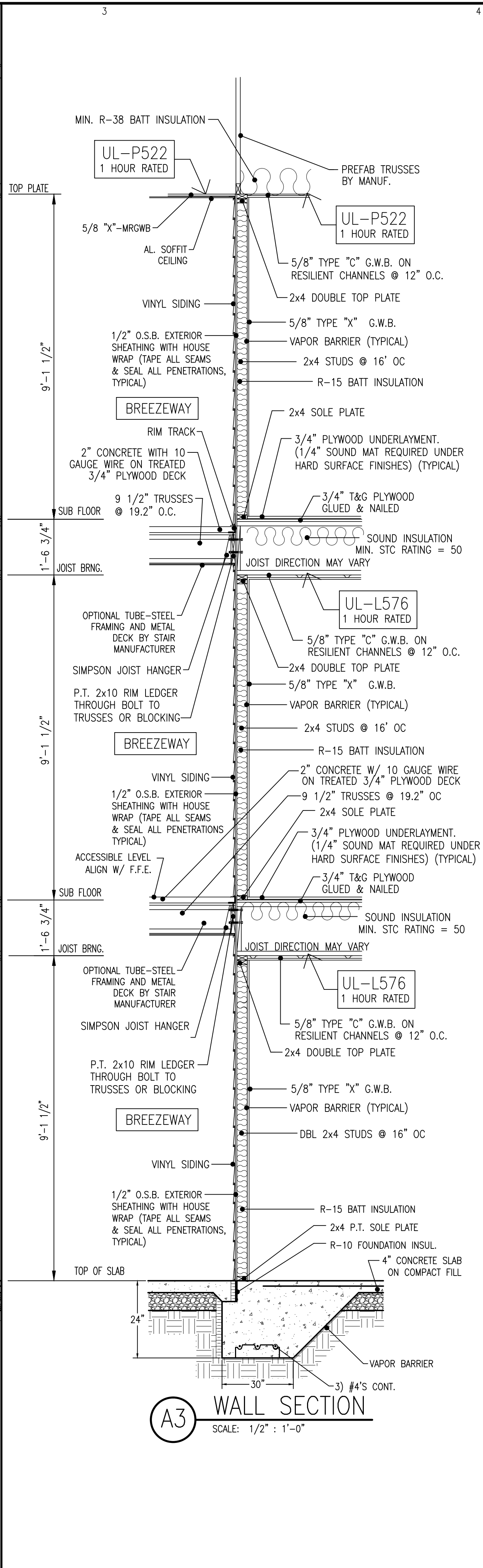
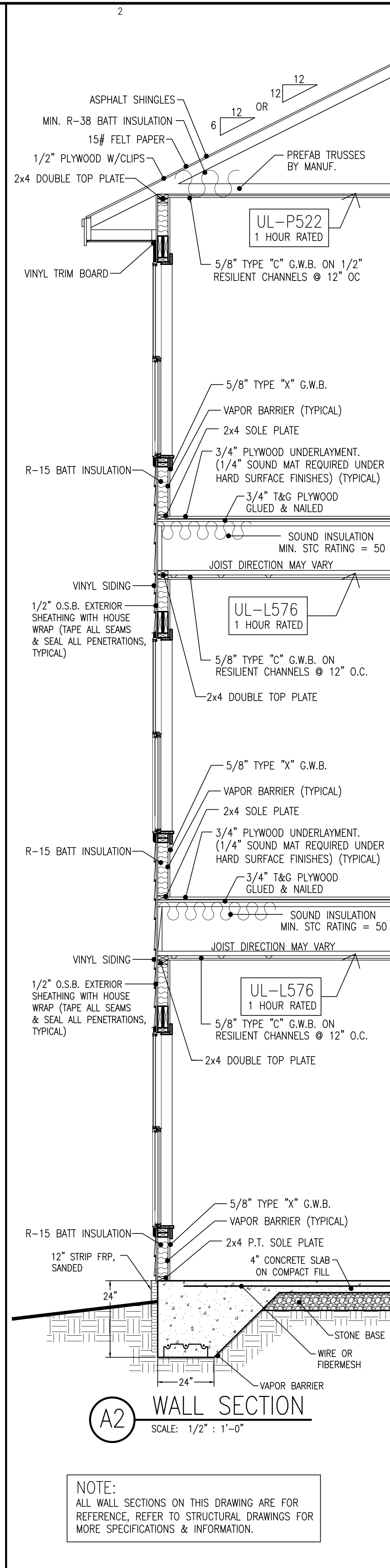
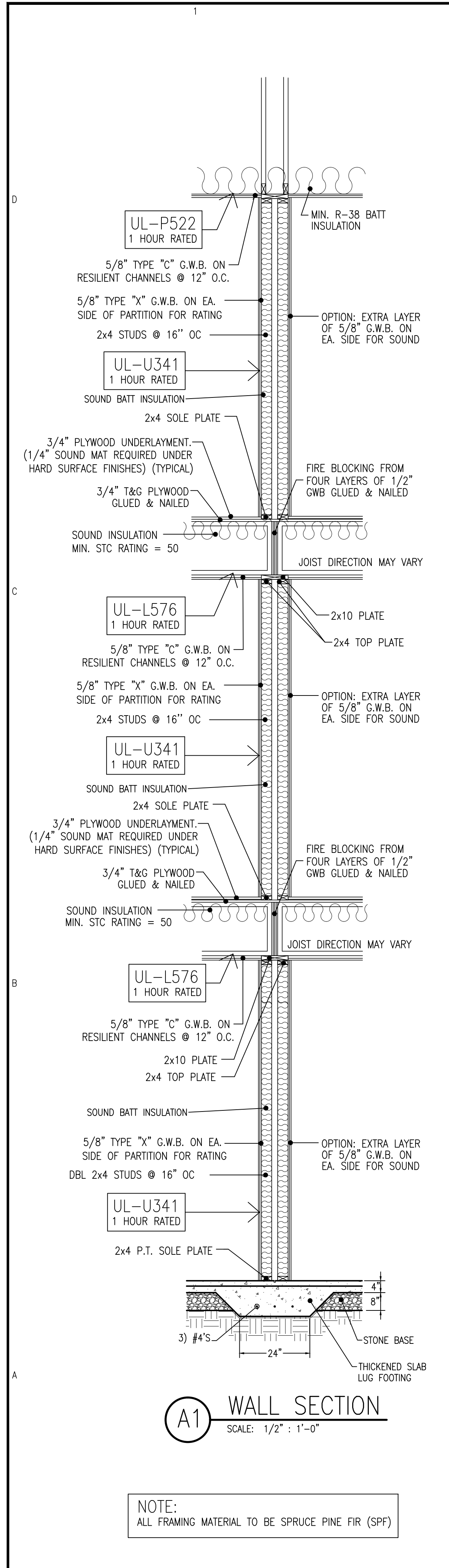
MARK	DATE	DESCRIPTION	CHK
PERMIT	4-13-21	ISSUE - CONSTRUCTION SET	AWP

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 DRAWN BY: S.S.TOPE
 CHECKED BY: A. PRIVETTE
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SHEET TITLE:
EXTERIOR ELEVATIONS

A-201
 SHEET 5 OF 8

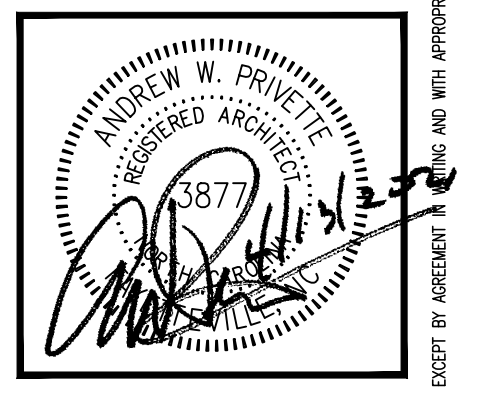
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Designed to Build
A Smart Approach

ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING —
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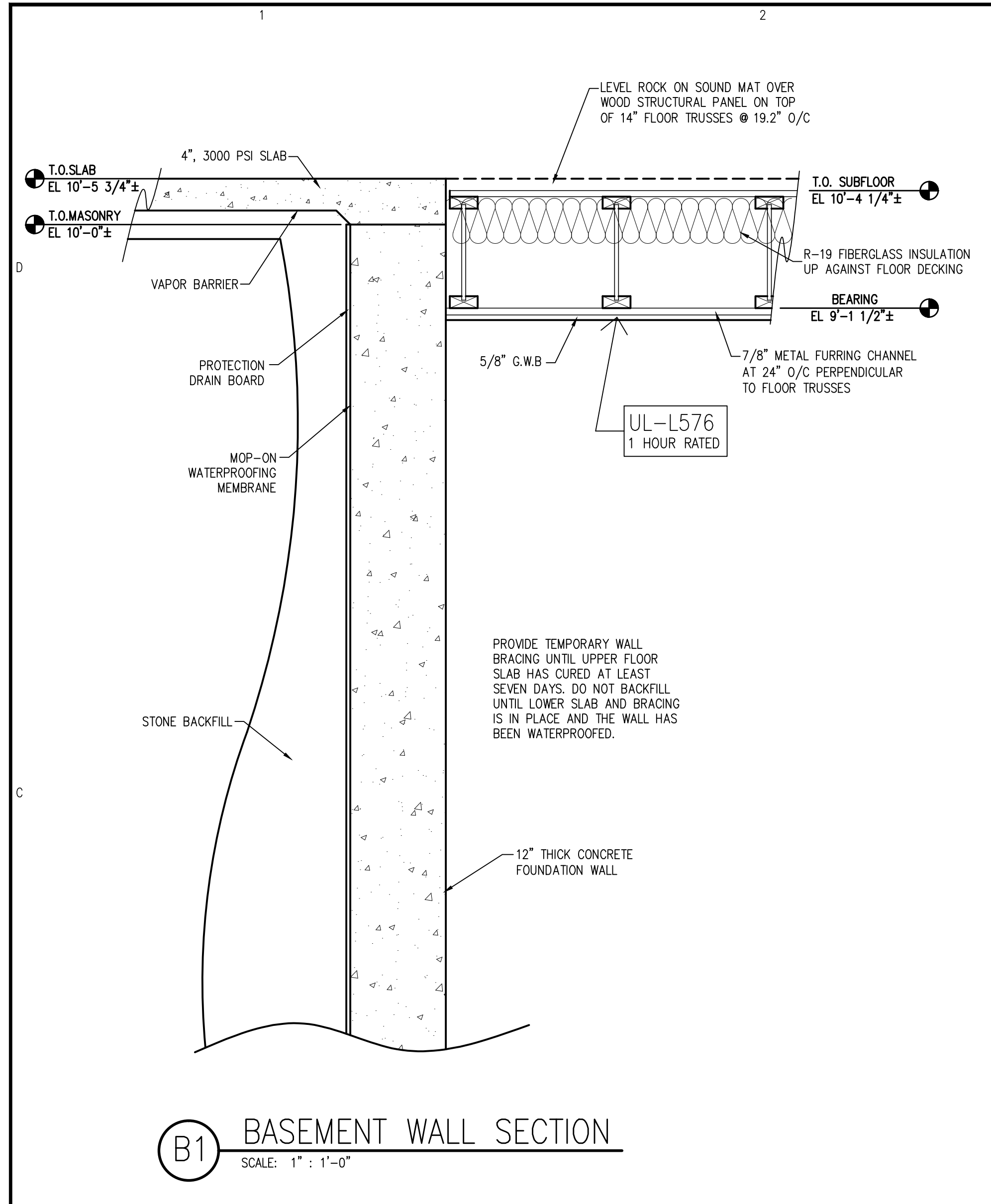
NO.	DATE	DESCRIPTION	BY	CHK

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CHECKED BY: A. PRIVETTE
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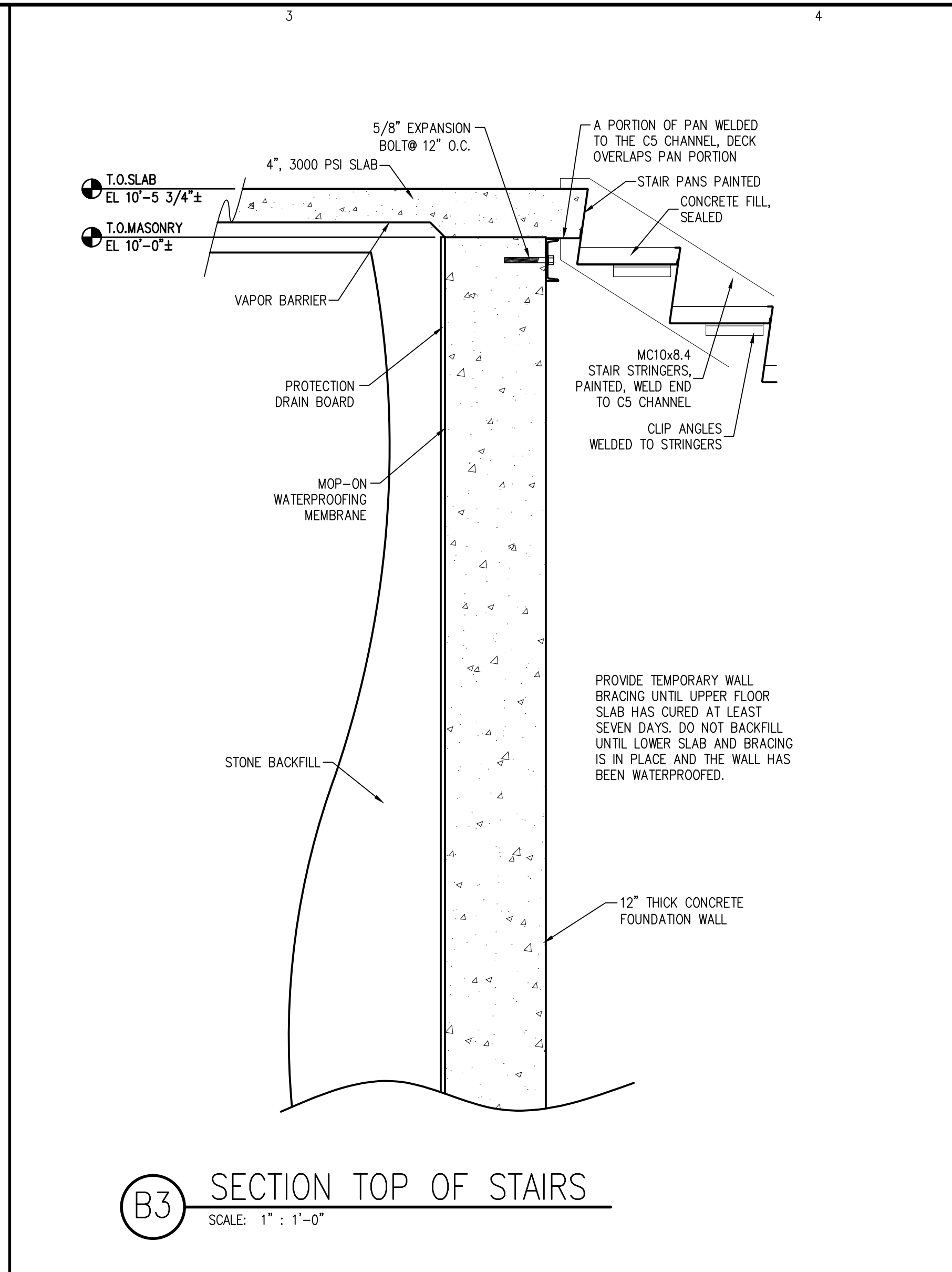
SHEET TITLE:
WALL SECTIONS

A-301
SHEET 6 OF 8

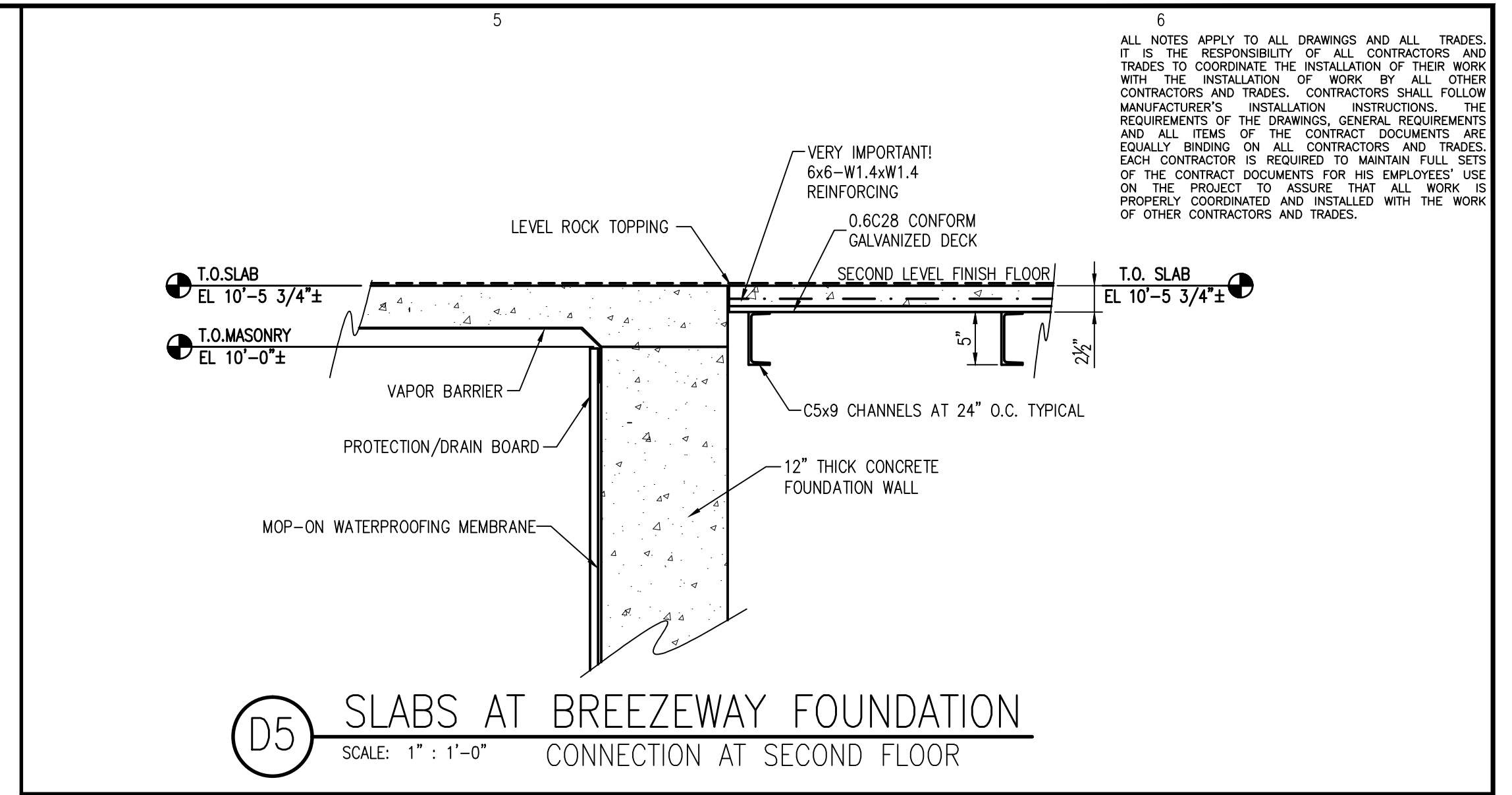
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B1 BASEMENT WALL SECTION
SCALE: 1" : 1'-0"



B3 SECTION TOP OF STAIRS
SCALE: 1" : 1'-0"

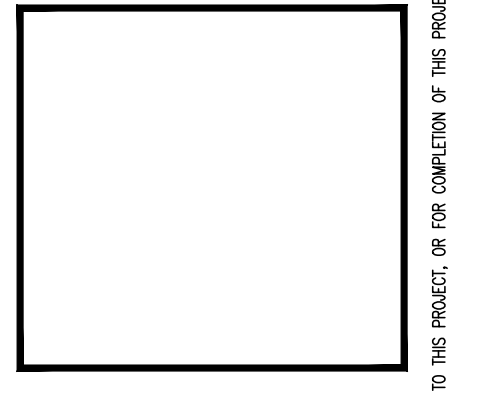
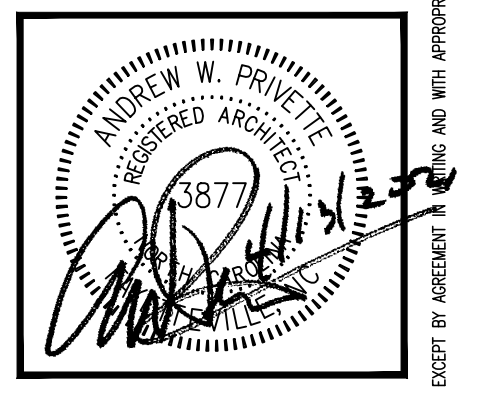


D5 SLABS AT BREEZEWAY FOUNDATION
CONNECTION AT SECOND FLOOR
SCALE: 1" : 1'-0"

6
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Designed to Build
A Smarter Approach

ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designtobuild.com



FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING —
SPRING LAKE, NORTH CAROLINA 28390

DATE	DESCRIPTION	MARK	CHK
11-13-21	FORMS - CONSTRUCTION SET		

JOB CODE: Z0FAIRWAY-10
DRAWN BY: A. PRIVETTE
CHECKED BY: A. PRIVETTE
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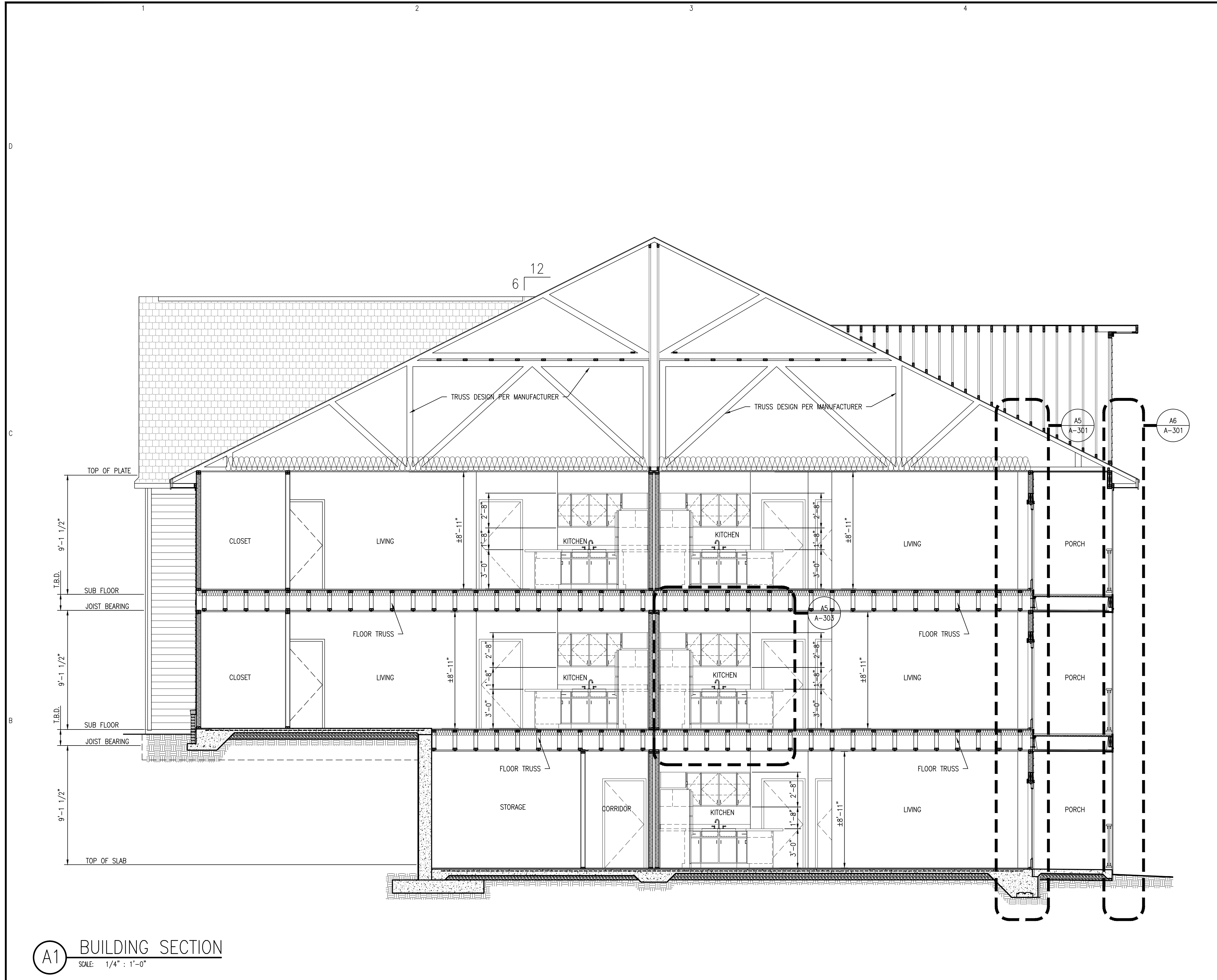
SHEET TITLE:
FOUNDATION SECTIONS & DETAILS

A-302
SHEET 7 OF 8

- COORDINATE WITH CIVIL AND SITE DRAWINGS FOR FINAL GRADE NOTES AND RECOMMENDATIONS.
- DESIGN LOADS - SEE APPENDIX 'b' INFORMATION ON SHEET G-101
- SEISMIC CONDITIONS - SEE APPENDIX 'b' INFORMATION ON SHEET G-101
- CONCRETE QUALITY TO MEET 3000 & 4000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS.
- REINFORCING STEEL TO BE GRADE 60.
- STRUCTURAL STEEL MINIMUM GRADE A50.
- FOLLOW ALL LOCAL AND STATE CODES AND STANDARDS FOR THIS PARTICULAR BUILDING LOCATION.
- TERMITE TREATMENT:
 - ENGAGE A PROFESSIONAL PEST CONTROL OPERATOR, LICENSED IN ACCORDANCE WITH REGULATIONS OF GOVERNING AUTHORITIES FOR APPLICATION OF SOIL TREATMENT SOLUTION.
 - USE AN EMULSIBLE CONCENTRATE INSECTICIDE FOR DILUTION WITH WATER, SPECIALLY FORMULATED TO PREVENT INFESTATION BY TERMITES. FUEL OIL WILL NOT BE PERMITTED AS A DILUTENT.
- SOIL BEARING CAPACITY ASSUMED AT 2,000 PSF.

NOTE:
ALL SECTIONS & DETAILS ON THIS DRAWING ARE FOR REFERENCE, REFER TO STRUCTURAL DRAWINGS FOR MORE SPECIFICATIONS & INFORMATION.

PERMITTING STAMP:

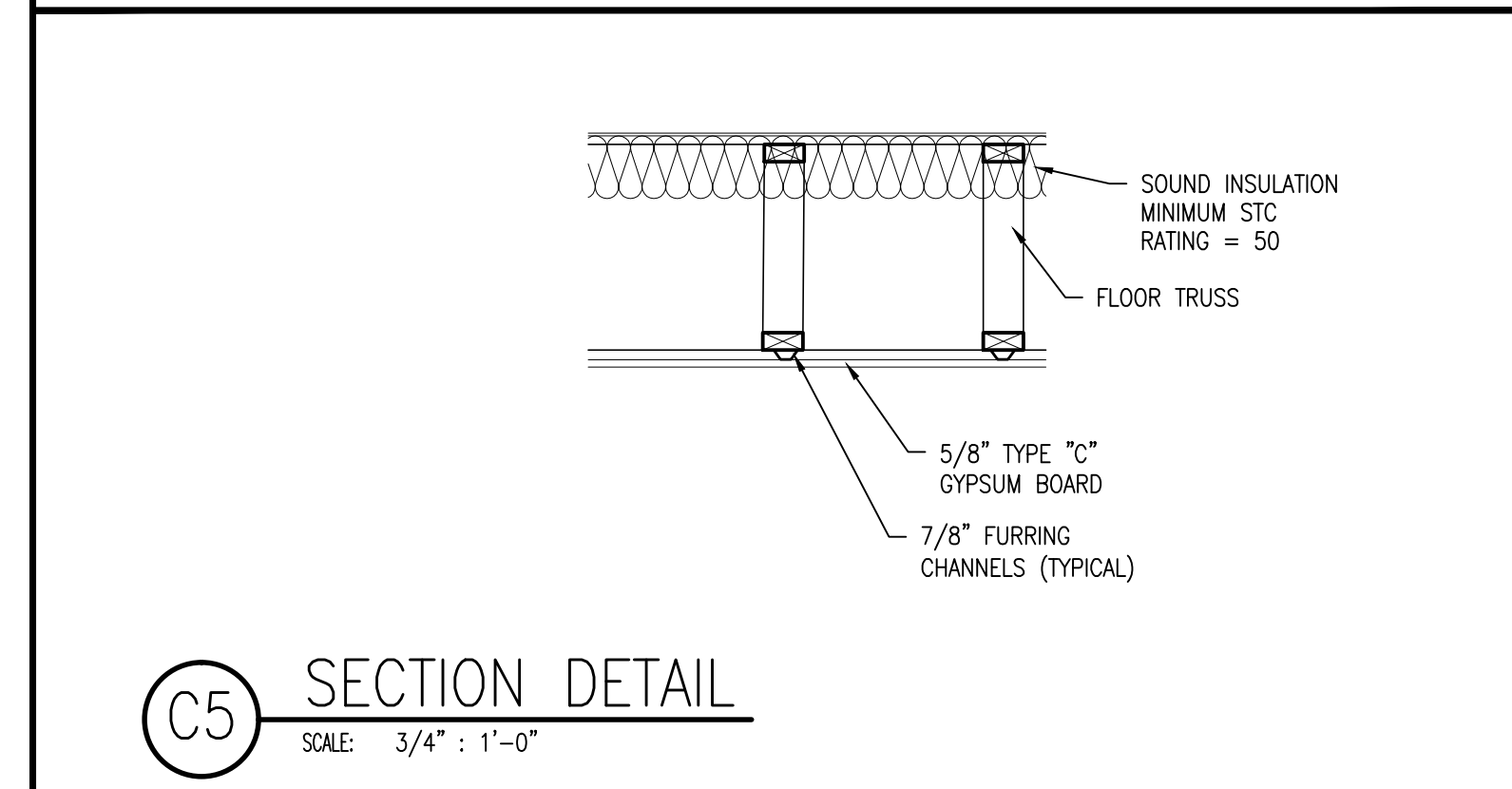
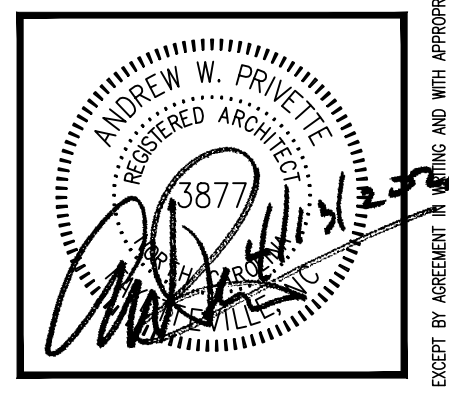


A1 BUILDING SECTION
SCALE: 1/4" : 1'-0"

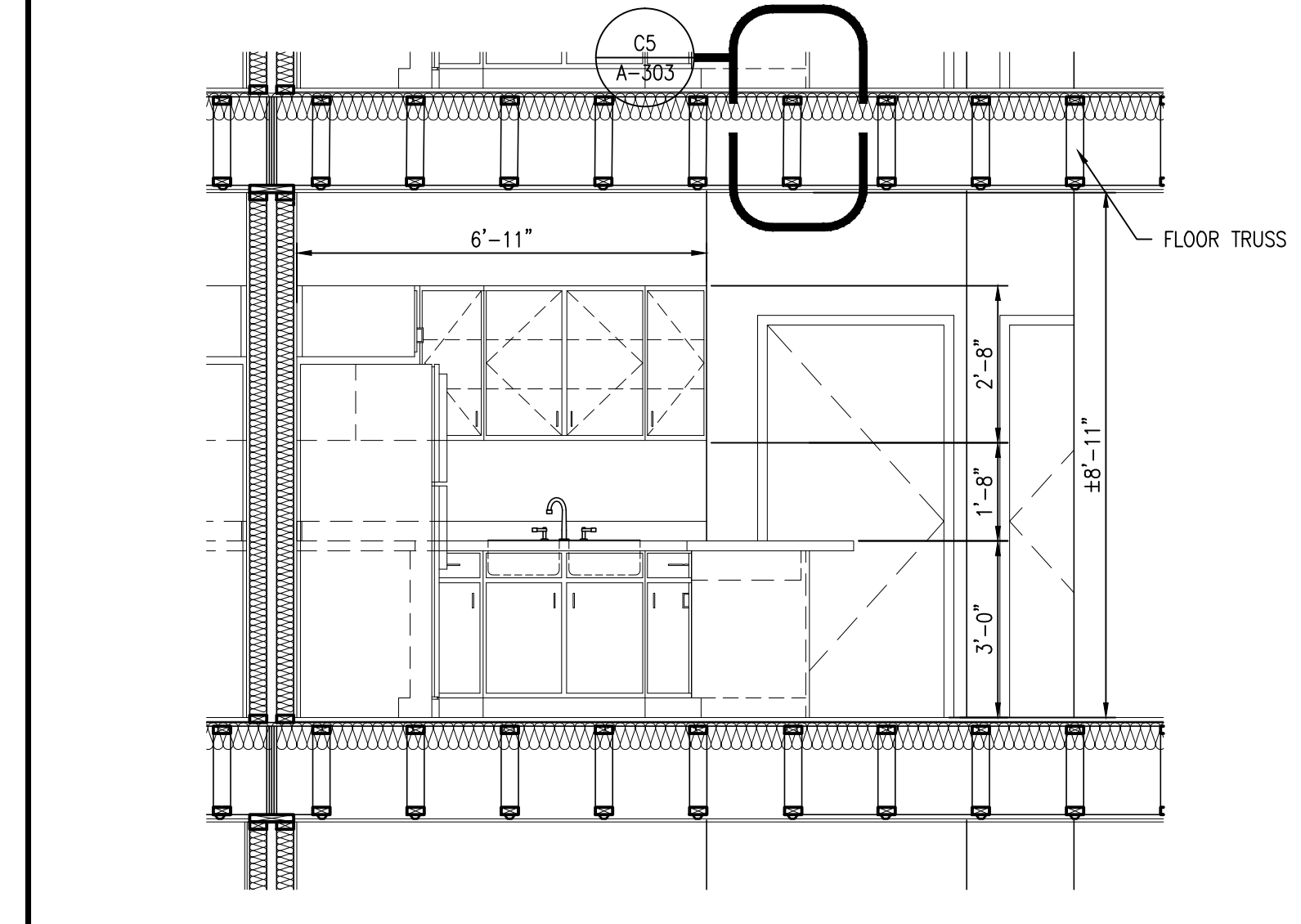
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Designed to Build
A Sensible Approach

ANDREW W. PRIVETTE, AIA
1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303
TELE. (910) 485-8567
andy@designedtobuild.com



C5 SECTION DETAIL
SCALE: 3/4" : 1'-0"



A5 INTERIOR SECTION DETAIL
SCALE: 3/8" : 1'-0"

FAIRWAY POINTE at ANDERSON CREEK CLUB
THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING —
SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	MARK	CHK
1	11-13-21	ISSUE - CONSTRUCTION SET	AWP	

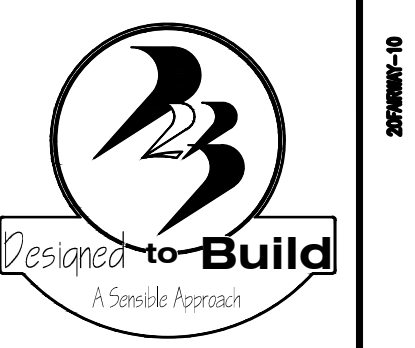
JOB CODE: 20FAIRWAY-10
DRAWN BY: A. PRIVETTE
CHECKED BY: A. PRIVETTE
COPYRIGHT:
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SHEET TITLE:
BUILDING SECTION & SECTION DETAILS

A-303
SHEET 8 OF 8

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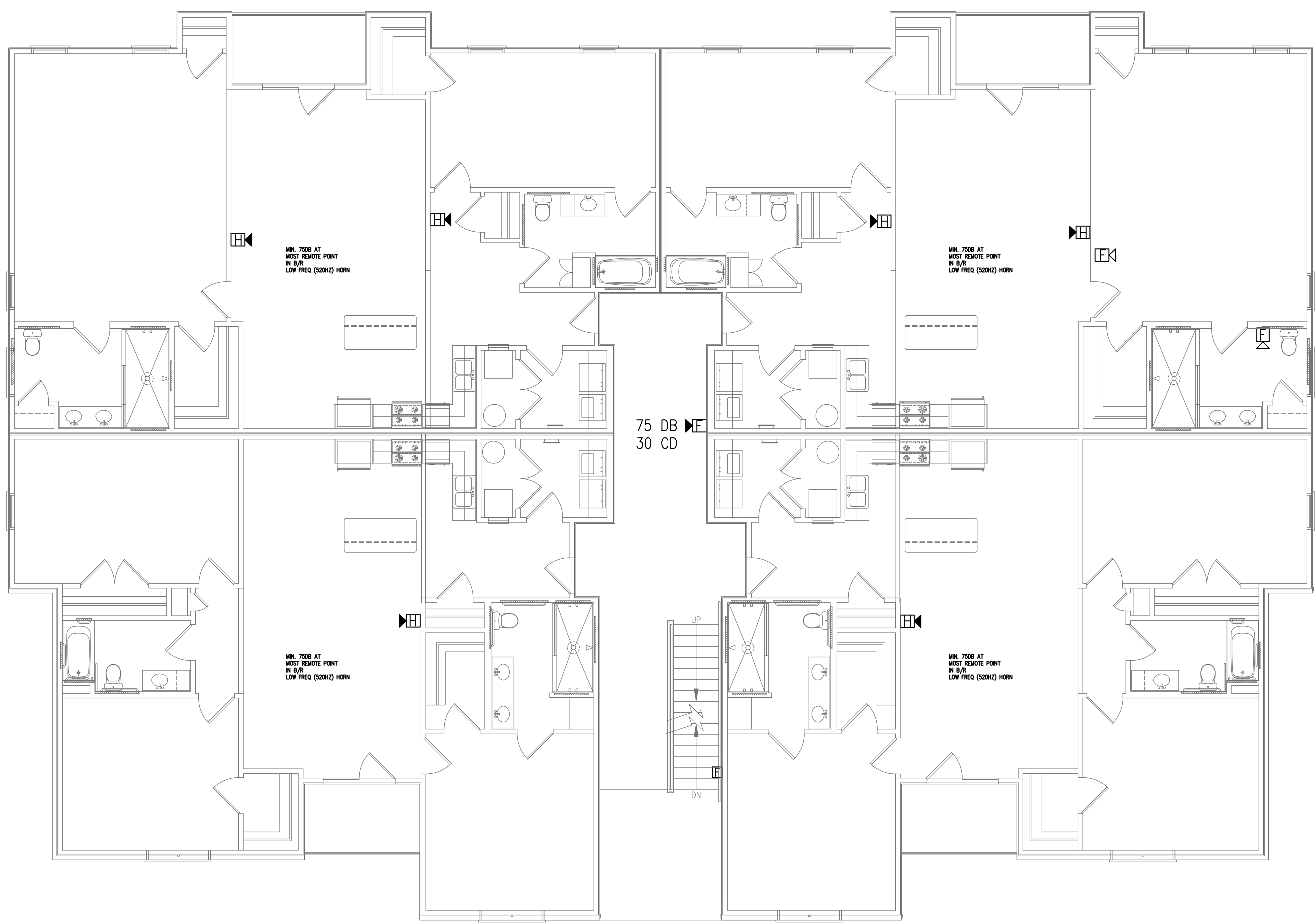
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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com

FIRE ALARM LEGEND

	FIRE ALARM CONTROL UNIT
	PULL STATION
	FLOW SWITCH
	TAMPER SWITCH
	HORN STROBE
	HORN ONLY
	STROBE ONLY



1 FIRE ALARM PLAN-2ND FLOOR
 FA2 3/16"=1'-0"

FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING _____
 SPRING LAKE, NORTH CAROLINA 28390

MARK	DATE	DESCRIPTION	CHK

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SHEET TITLE:
 FIRE ALARM PLAN
 SECOND FLOOR

FA2
 SHEET OF

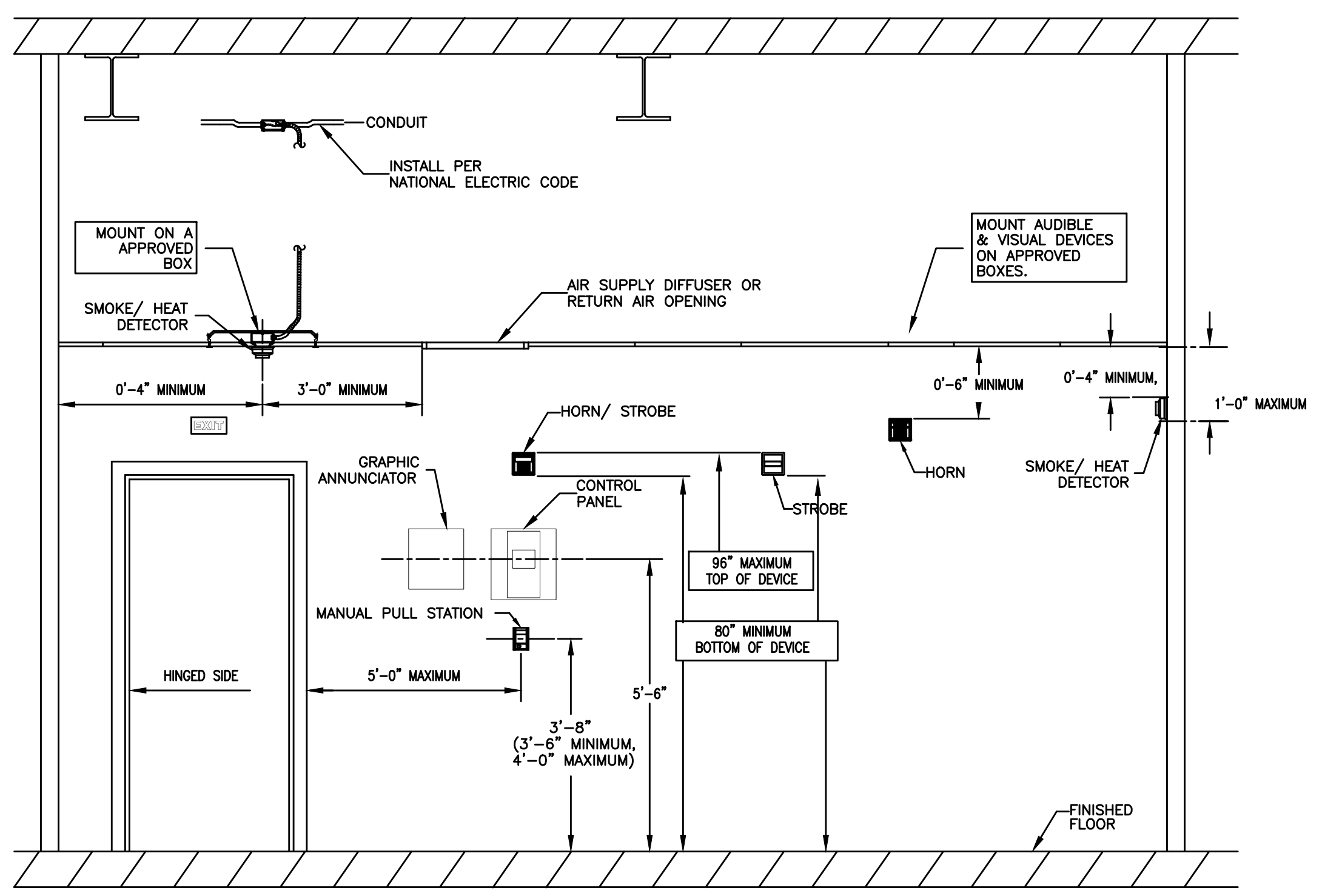
Coastal Plains Engineering, P.A.
 295 LOCKLEAR RD
 P.O. Box 1117
 Pembroke, NC 28372
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APR 27, 2021
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NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS

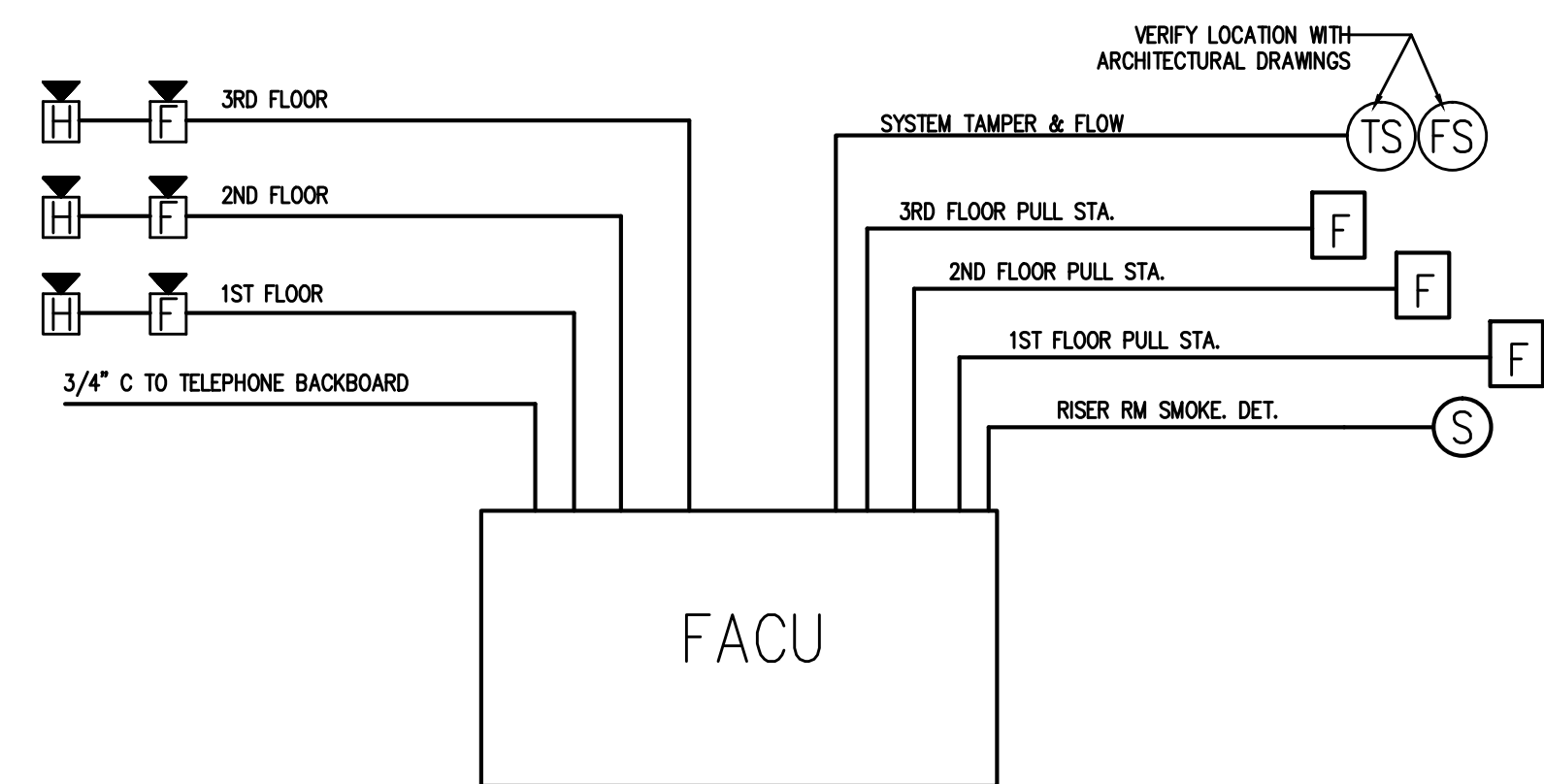
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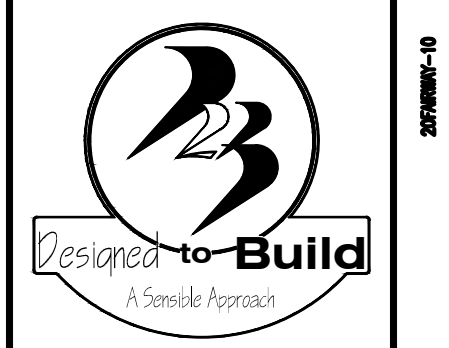
FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS																						
	FACP ANNUNCIATION											NOTIFICATION											REQUIRED FIRE SAFETY CONTROL
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
1 FIRE ALARM SYSTEM AC POWER FAILURE																							
2 FIRE ALARM SYSTEM LOW BATTERY																							
3 OPEN CIRCUIT																							
4 GROUND FAULT																							
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																							
6 BREEZEWAY MANUAL PULL STATIONS																							
7 SMOKE DETECTOR AT FACP																							
8 SPRINKLER TAMPER SWITCH																							
9 SPRINKLER WATER FLOW IN BUILDING																							
10 -																							
11 -																							

1 FIRE ALARM DEVICE MOUNTING HEIGHTS
N.T.S.



2 FIRE ALARM RISER DIAGRAM
N.T.S.



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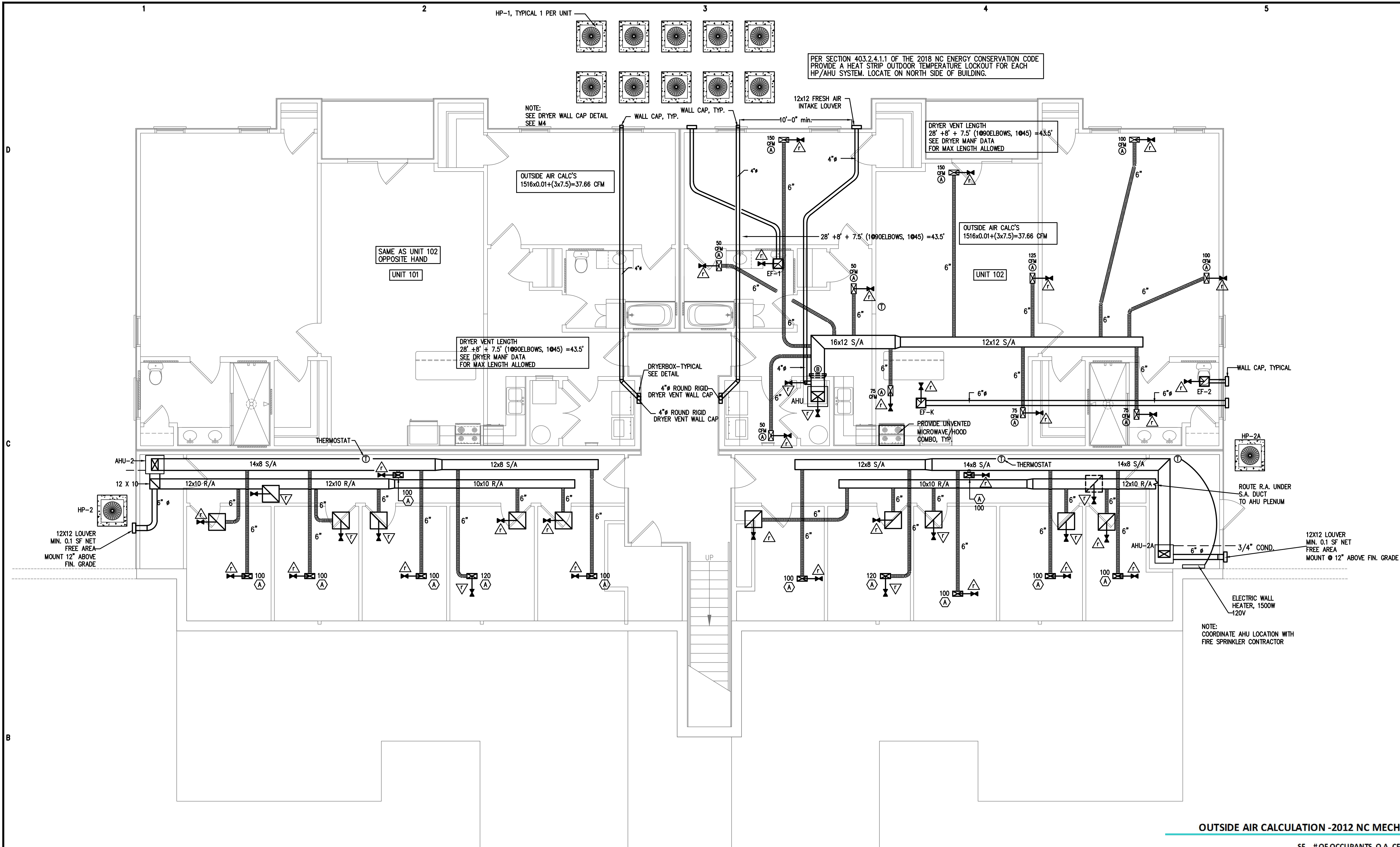
SHEET TITLE:
FIRE ALARM DETAILS

FA4
SHEET OF

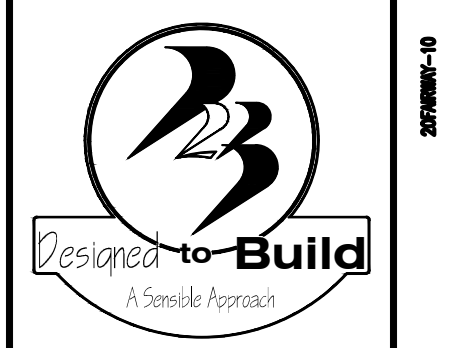
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1 HVAC PLAN-1ST FLOOR
M1 3/16"=1'-0"

EXHAUST FAN SCHEDULE	
EF-1	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" sidewall discharge duct, sidewall discharge cap; Model - BROAN No. 634
EF-2	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-3	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-4	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-5	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-6	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-7	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-8	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-9	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-10	Ceiling mounted, 80 cfm, white polymer, grille 2.5 sones, 4" roof discharge duct, roof discharge cap; Model - BROAN No. 634
EF-K	Ceiling mounted, 100 cfm, white polymer, grille 2.5 sones, 6" sidewall discharge duct, sidewall discharge cap; Model - BROAN No. 634 (1st & 2nd Flr Units) Model - BROAN No. 634 (3rd Flr Units)

NOTE:
DRYER SPEC CE CTD3EASKWW OR EQ.
PROVIDE TAG INSTALLED IN LAUNDRY ROOM
DRYER INSTALLED MUST ALLOW MIN 55' 4" DUCT WITH 2 ELBOWS

REGISTER & GRILLE SCHEDULE	
A	Supply ceiling register, 4 in. x 10 in., two-way deflection, white enamel finish, all-steel construction, multi-shutter valve; Stock #600W10x4 by Atlanta Supply Co. or equiv.
B	Return air filter grille, 20 x 20 filter, 1/3"-spaced fins set at 20 degrees, ceiling mount, white enamel finish, grille to accept 1 inch thick throw-away type filters; Stock #600HFW20x20 by Atlanta Supply Co. or equiv.

OUTSIDE AIR CALCULATION -2012 NC MECHANICAL CODE (TABLE 403.3) Vbz = RpPz + RaAz

OCCUPANCY TYPE:	SF (Az)	# OF OCCUPANTS (Pz)	O.A. CFM PER PERSON (Rp)		O.A. CFM PER SQFT (Ra)	O.A. CFM REQUIRED (Vbz)	EXHAUST CFM REQUIRED
			PERSON (Rp)	SqFt (Ra)			
AHU-2 STORAGE	522	0	0	0.12		62.64	
CORRIDOR	228	0	0	0.06		13.68	
TOTAL CFM REQUIRED						76.32	0
TOTAL CFM FURNISHED						76.32	0
AHU-2a STORAGE	509	0	0	0.12		61.08	
CORRIDOR	208	0	0	0.06		12.48	
TOTAL CFM REQUIRED						73.56	0
TOTAL CFM FURNISHED						73.56	0

AIR HANDLING UNIT SCHEDULE												
UNIT NO.	CFM	OA CFM	ESP IN WG	FAN MOTOR					MFG. & MODEL	REMARKS		
				HP	VOLTS	PHASE	CYCLE	FLA			MCA	MOCP
AHU-1	1000	-	0.75"	1/3	240	1	60	2.8	44	45	TRANE GAMSBO830M21SB	2.5 TON AIR HANDLER W/ 7.68 KW STRIPS
AHU-2, 2A	600	-	0.85"	1/3	240	1	60	2.8	24	25	TRANE GAMSBO18M11SB	1.5 TON AIR HANDLER W/ 3.84 KW STRIPS

HEAT PUMP UNIT SCHEDULE														
UNIT NO.	COMPRESSOR AMPS	NO. OF COMPR.	FAN AMPS	NO. OF FANS	UNIT VOLT	UNIT PHASE	MOCP	MCA	WIRE SIZE (DU. 75 °C)	CAPACITIES			MFG. & MODEL	REMARKS
										TOTAL COOLING	MIN. SEER	HEATING		
HP-1	11.5	1	0.74	1	240	1	25	15	10	30,000	13.00	28,000	TRANE 4TWB3030C1	2.5 TON HEAT PUMP UNIT
HP-2,2A	8.7	1	0.77	1	240	1	20	12	10	18,000	13.00	17,500	TRANE 4TWB3018D1	1.5 TON HEAT PUMP UNIT

Coastal Plains Engineering, P.A.

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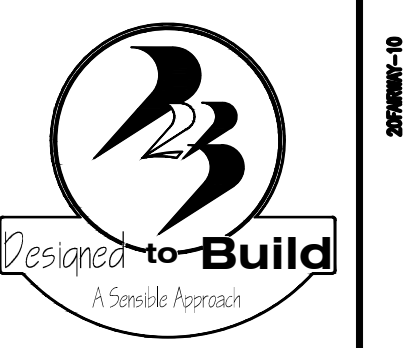
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HVAC PLAN
FIRST FLOOR

M1
SHEET OF

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 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designtobuild.com

FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
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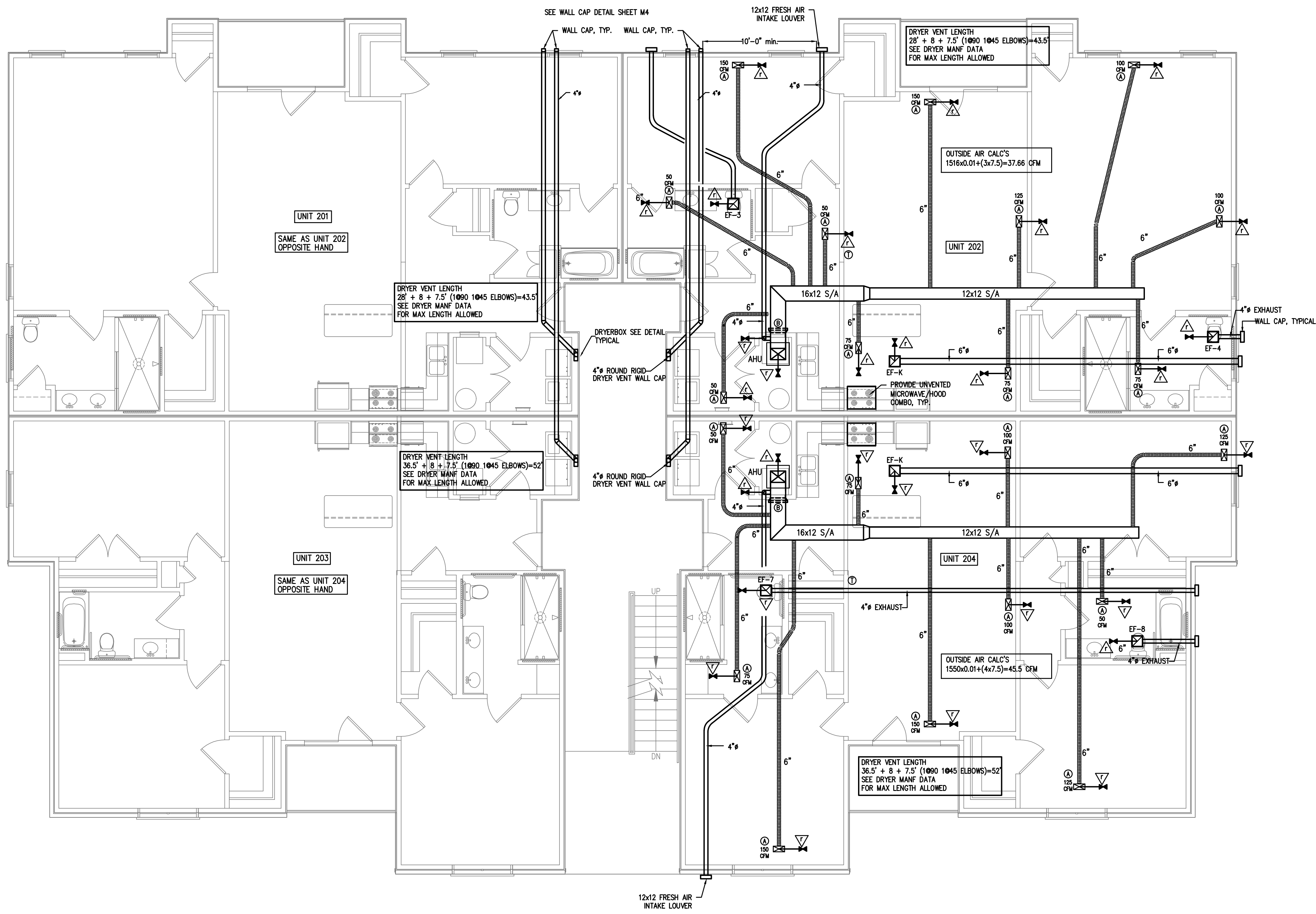
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 HVAC PLAN
 SECOND FLOOR

M2
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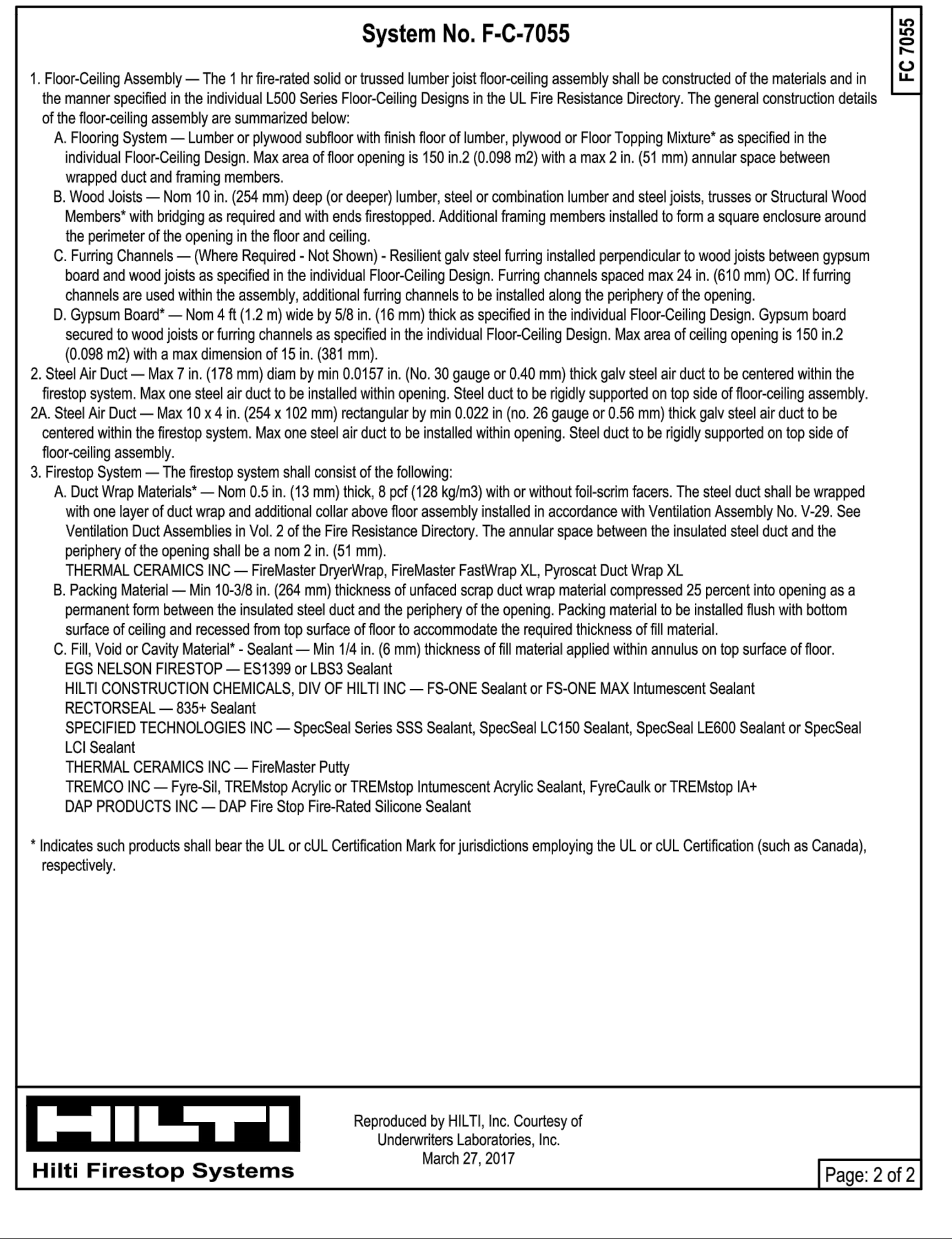
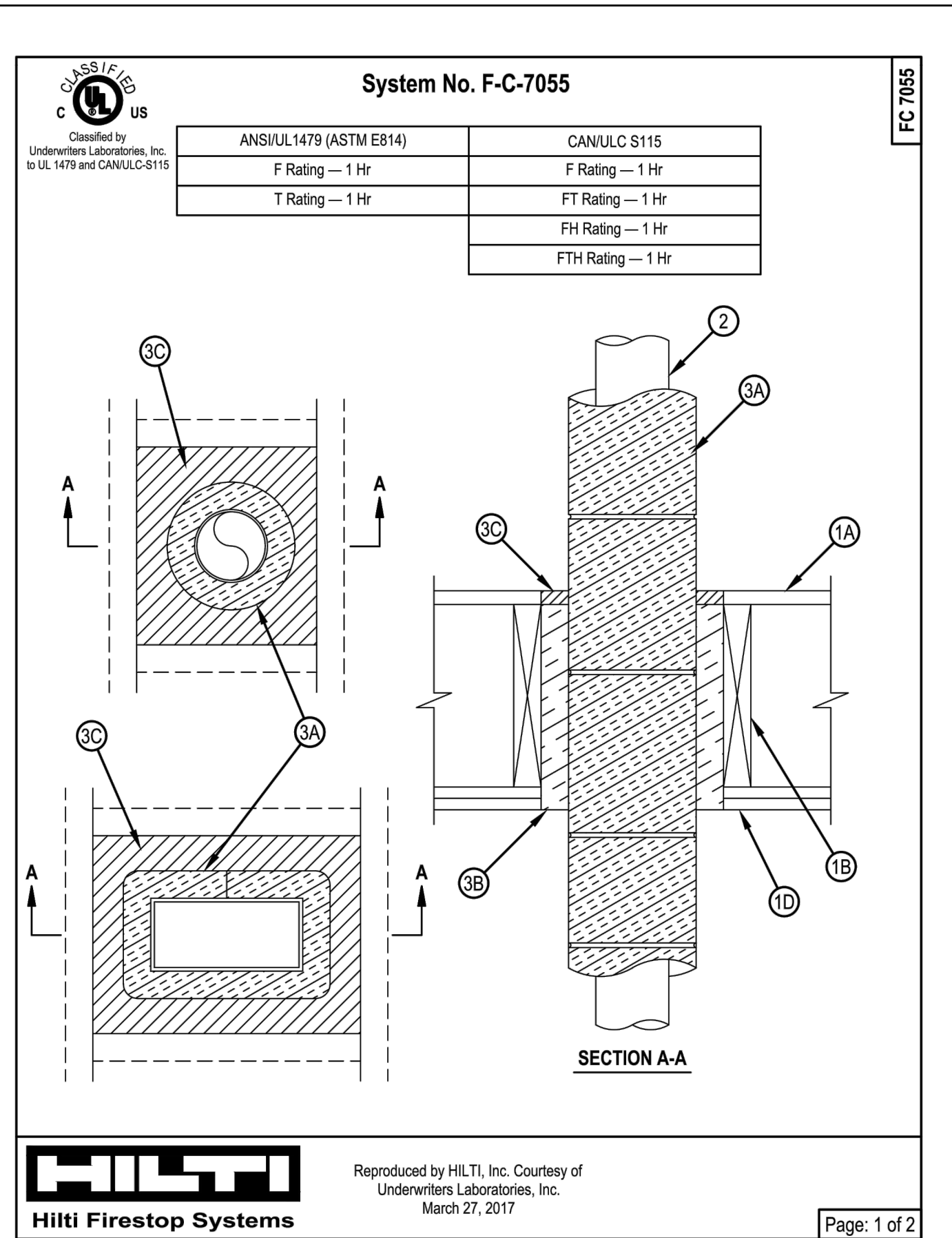
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 M2 3/16"=1'-0"

NOTE:
 DRYER SPEC
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 PROVIDE PLAQUE INSTALLED IN LAUNDRY ROOM
 DRYER INSTALLED MUST ALLOW MIN 55' 4" DUCT WITH 2 ELBOWS

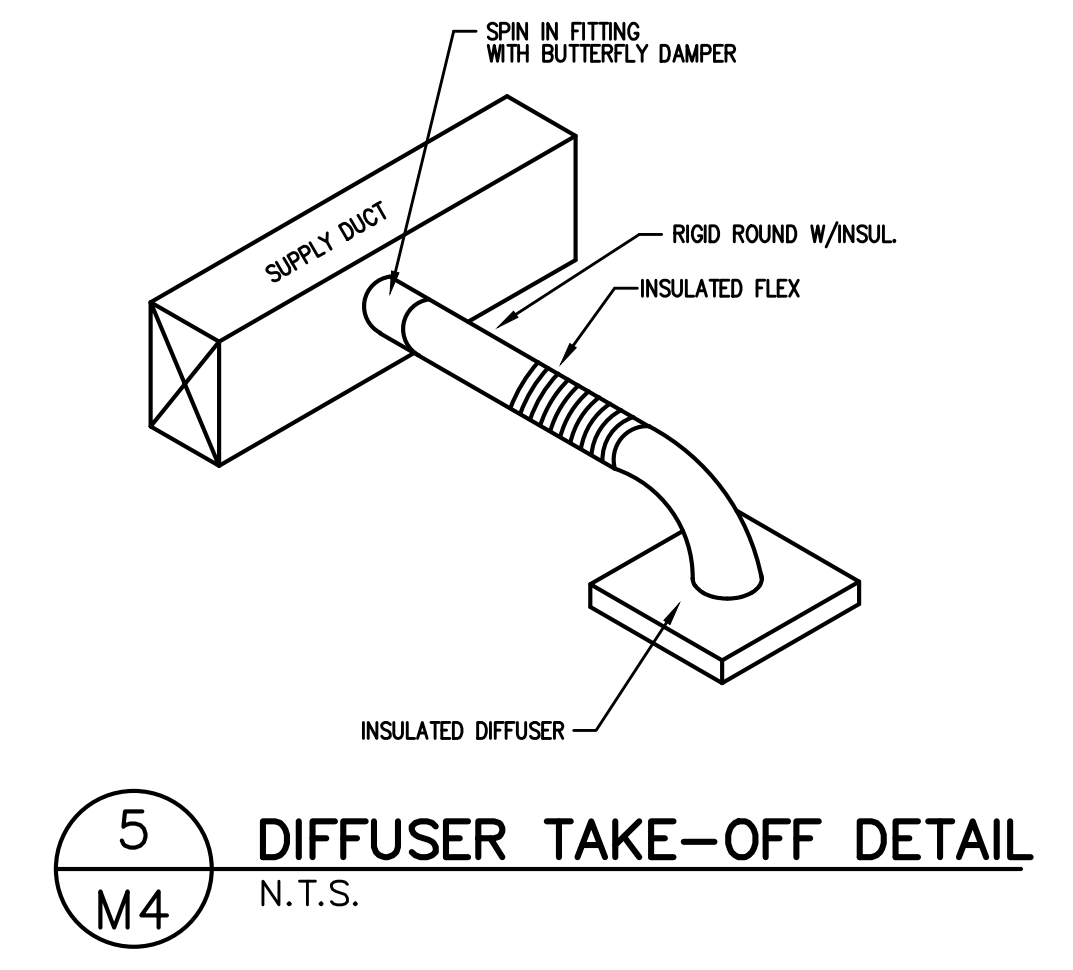
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 P.O. Box 1117
 Pembroke, NC 28372
 Voice: 910-521-7213
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MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR CEILING MOUNTED S/A DIFFUSER
	RECTANGULAR CEILING MOUNTED R/A OR EXHAUST GRILLE
	RUNOUT TO DIFFUSER W/VOLUME DAMPER AND CONE EXTRACTOR
	90 DEG. ELBOW W/ TURNING VANES
	CONDENSATE DRAIN PIPING
	REFRIGERANT PIPING
	HEATING AND COOLING THERMOSTAT, MOUNT 5'-0" A.F.F., AUTOMATIC CHANGEOVER.
	SYSTEM EMERGENCY SHUT-OFF SWITCH (RED LABELED)
	DUCT SMOKE DETECTOR — FURNISHED BY M.C., INSTALLED BY M.C., WIRED BY M.C.
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
S/D	SPLITTER DAMPER
M.D.	MANUAL DAMPER WITH LOCKING QUADRANTS
B.D.D.	BACKDRAFT DAMPER
A.F.F.	ABOVE FINISHED FLOOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
	CEILING FIRE/RADIATION DAMPER
	VERTICAL FIRE DAMPER



ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.

ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-8.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW. VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE ARCHITECT.

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

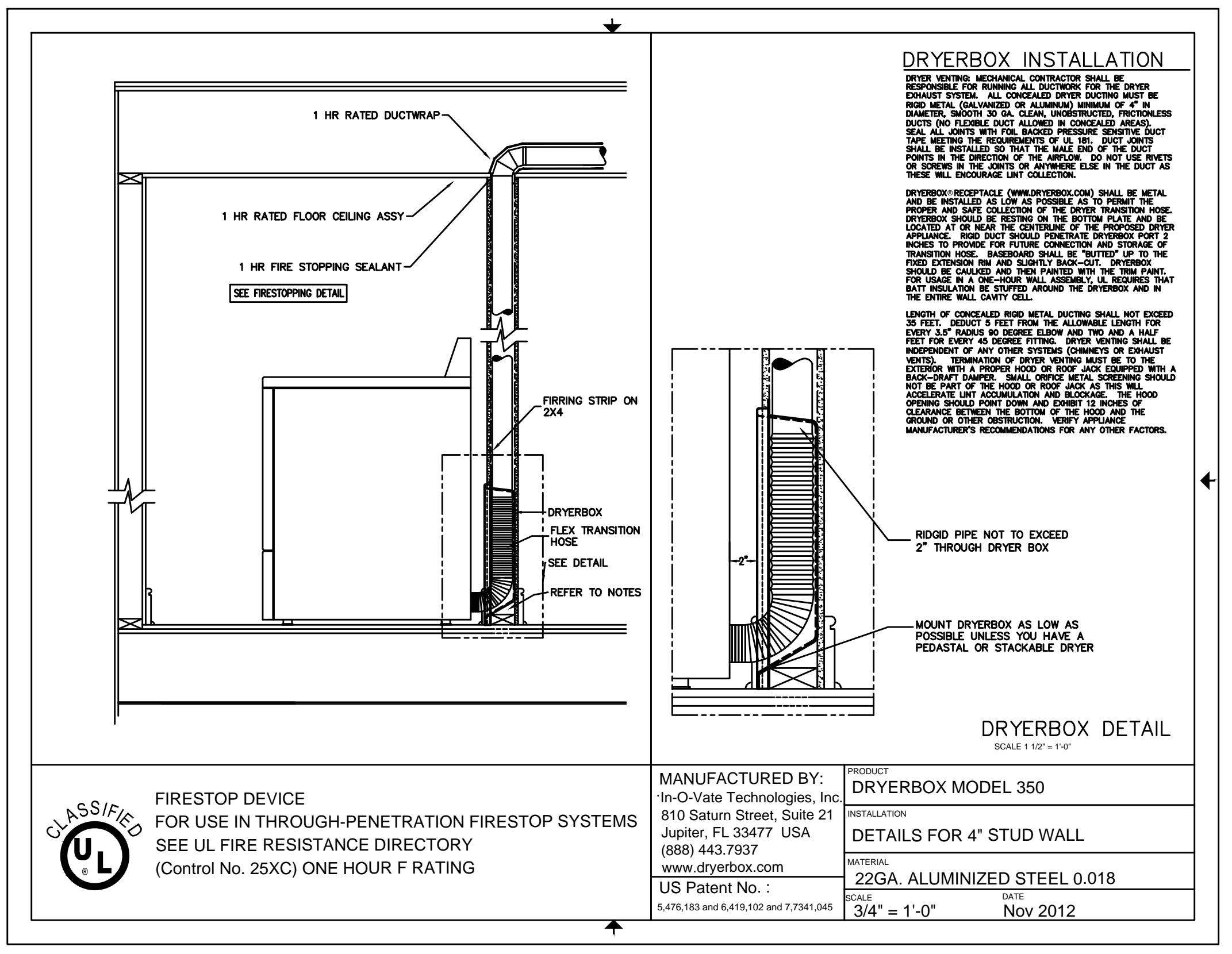
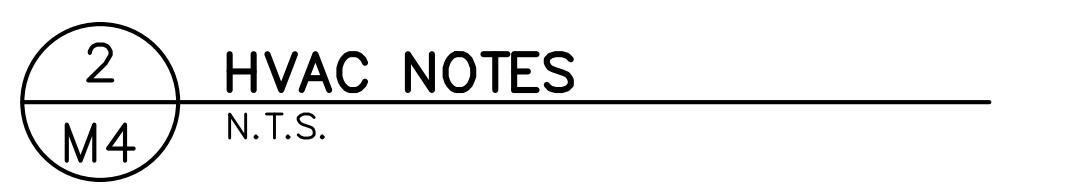
FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2018 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT. SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

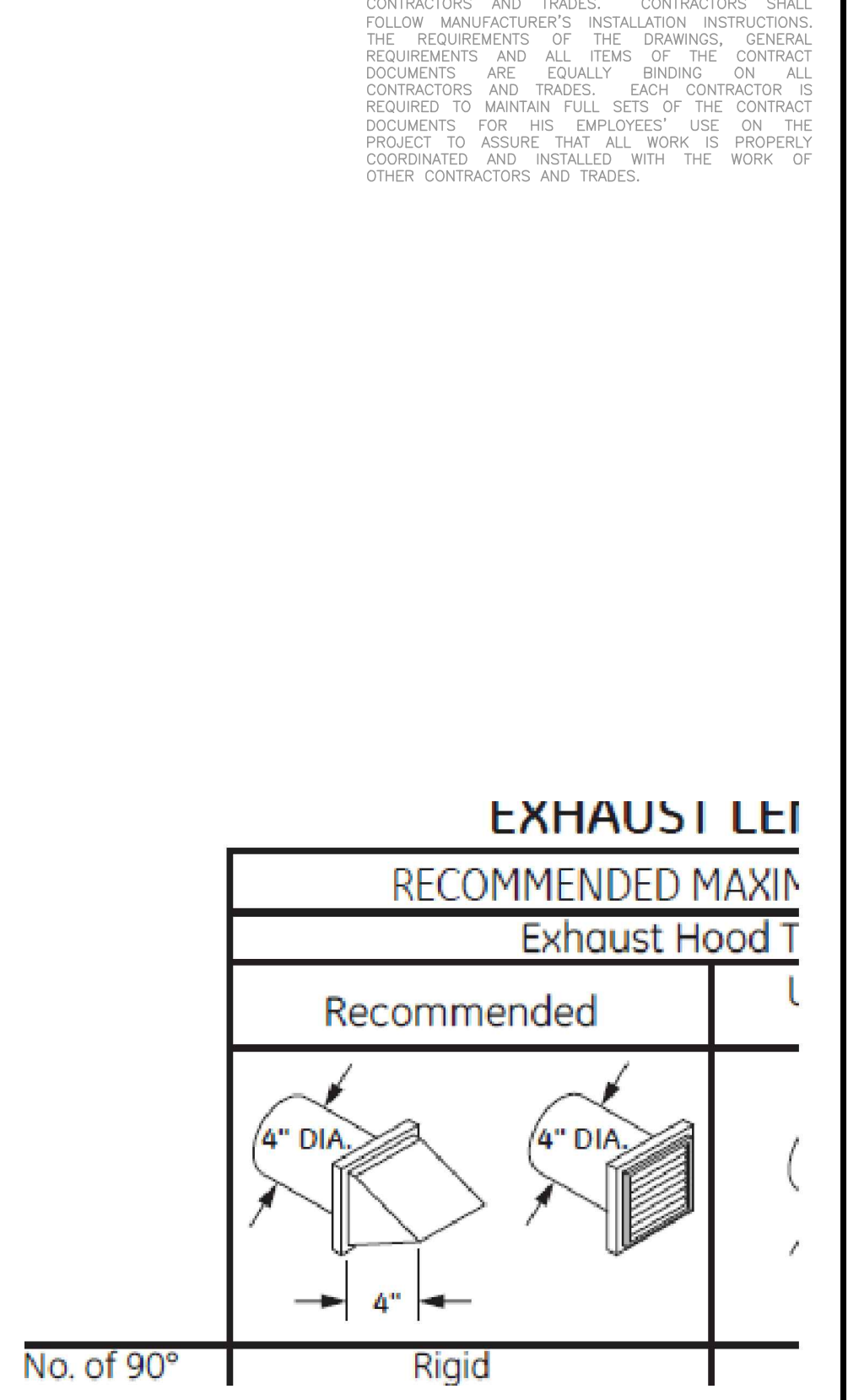
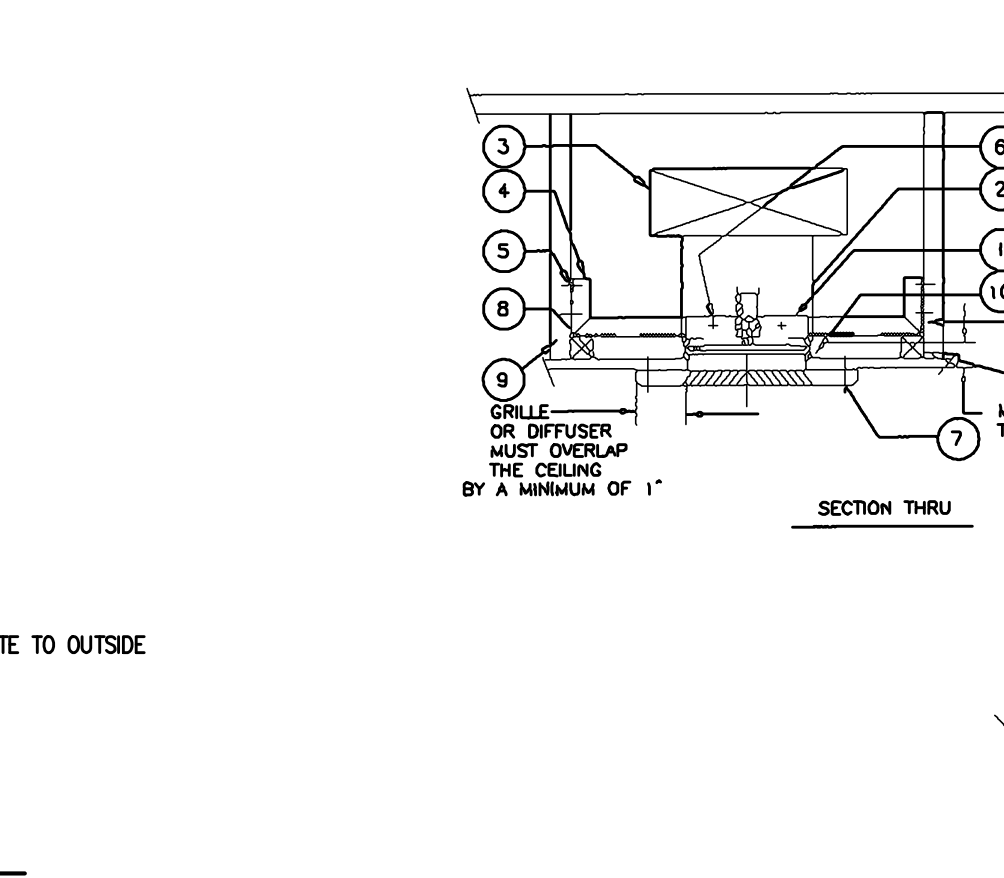
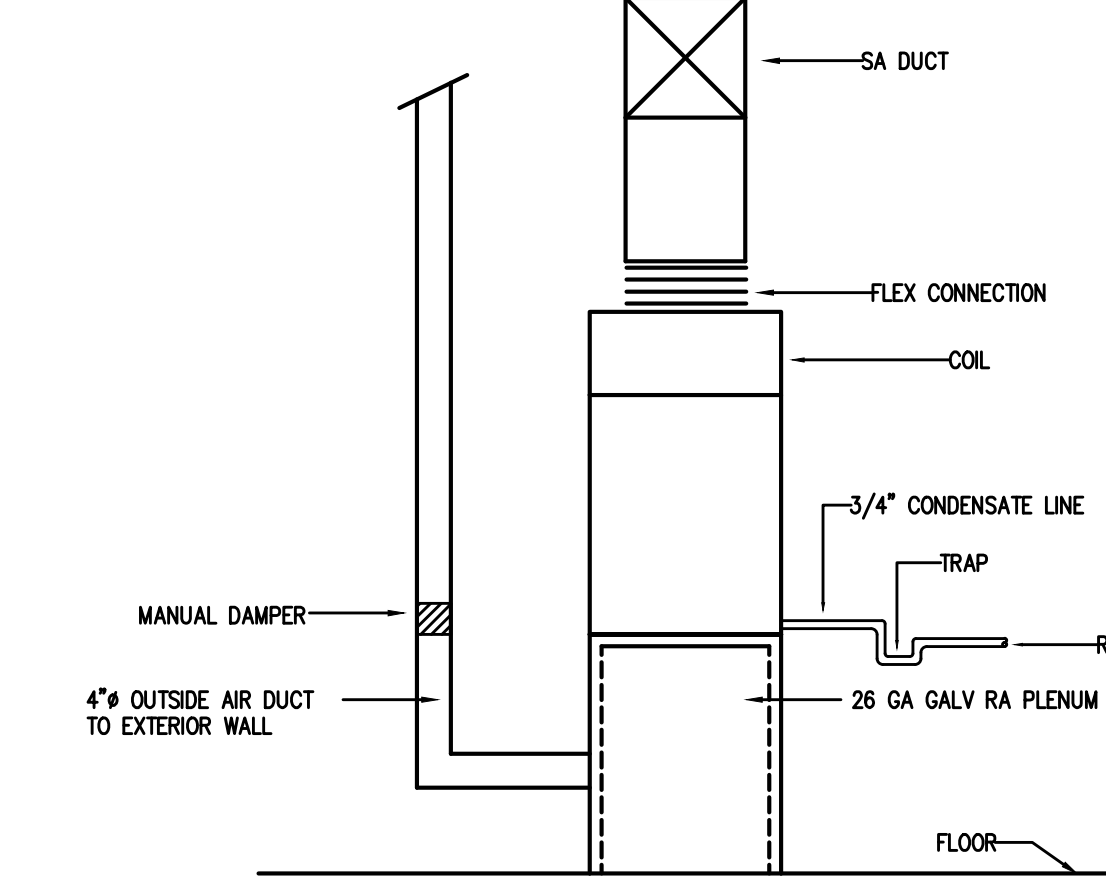
ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.



1 M1
N.T.S.



6
N.T.S.

Coastal Plains Engineering, P.A.
 295 LOCKLEAR RD
 P.O. Box 1117
 Pembroke, NC 28372
 Voice: 910-521-7213
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Designed to Build
 Andrew W. Privette, IA
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 NORTH CAROLINA 28303
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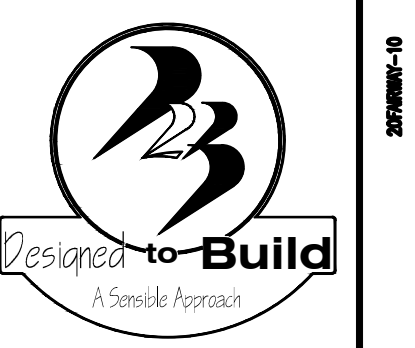
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 HVAC NOTES &
 DETAILS

M4
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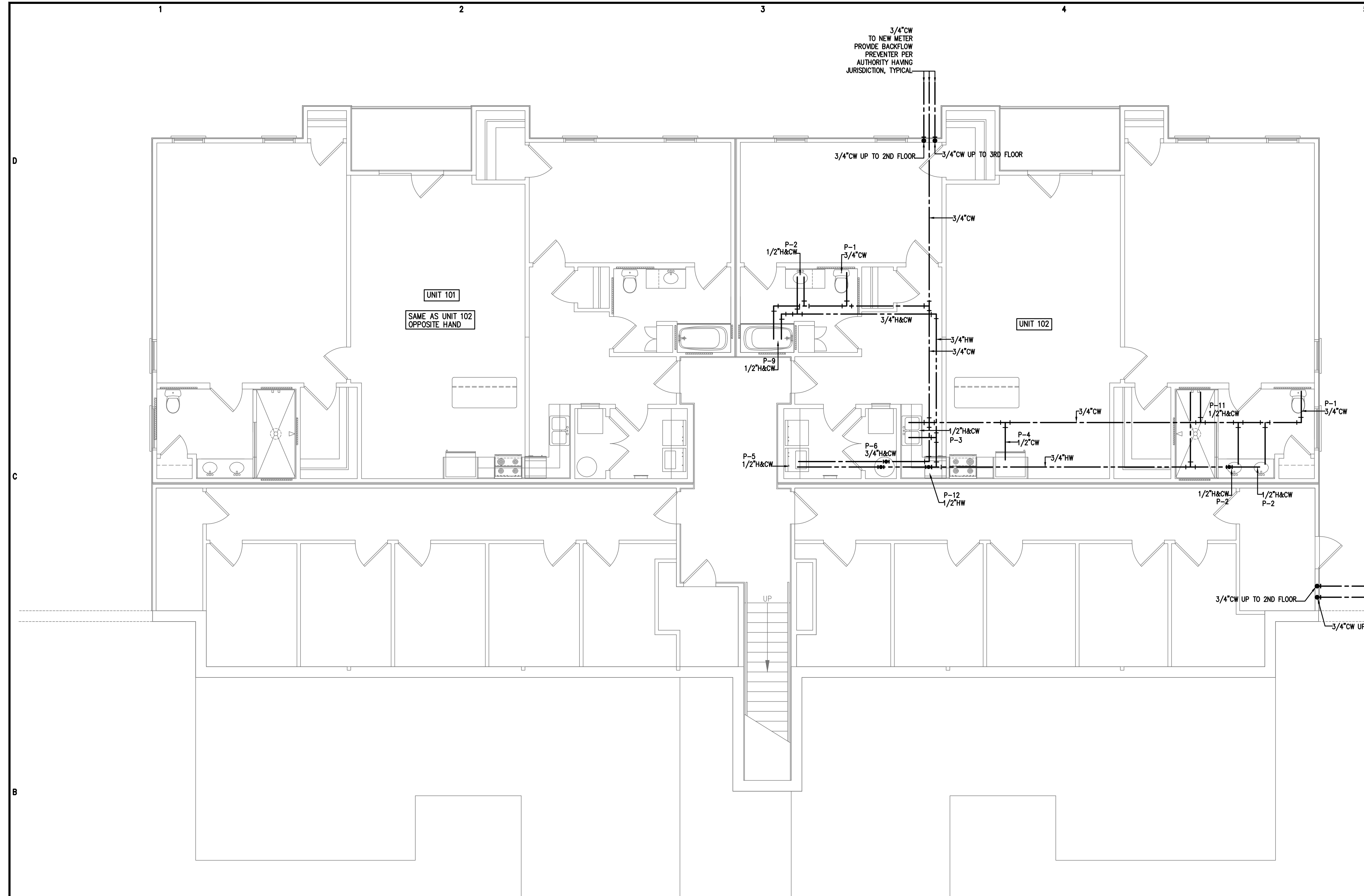
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SHEET TITLE:
PLUMBING PLAN
FIRST FLOOR

P1
SHEET OF



PLUMBING FIXTURE SCHEDULE

P-1 WATER CLOSET, FLOOR MOUNTED, ELONGATED BOWL, TANK TYPE	P-7 SHOWER, 36" WIDE x 36" DEEP WITH LEVER TYPE FAUCET
P-2 LAVATORY WITH LEVER TYPE FAUCET AND POP UP DRAIN	P-8 SHOWER, 48" WIDE x 36" DEEP WITH LEVER TYPE FAUCET
P-3 KITCHEN SINK WITH LEVER TYPE FAUCET	P-9 DROP-IN TUB, 60" WIDE x 30" DEEP WITH LEVER TYPE FAUCET
P-4 ICE MAKER OUTLET BOX AND VALVE	P-10 DROP-IN TUB, 60" WIDE x 30" DEEP WITH LEVER TYPE FAUCET AND DECK
P-5 WASHING MACHINE OUTLET BOX	P-11 SHOWER, ACCESSIBLE TYPE
P-6 WATER HEATER AND DRAIN PAN	P-12 RESIDENTIAL DISHWASHER

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. PVC/PEX MAYBE SUBSTITUTED FOR COPPER.

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI.

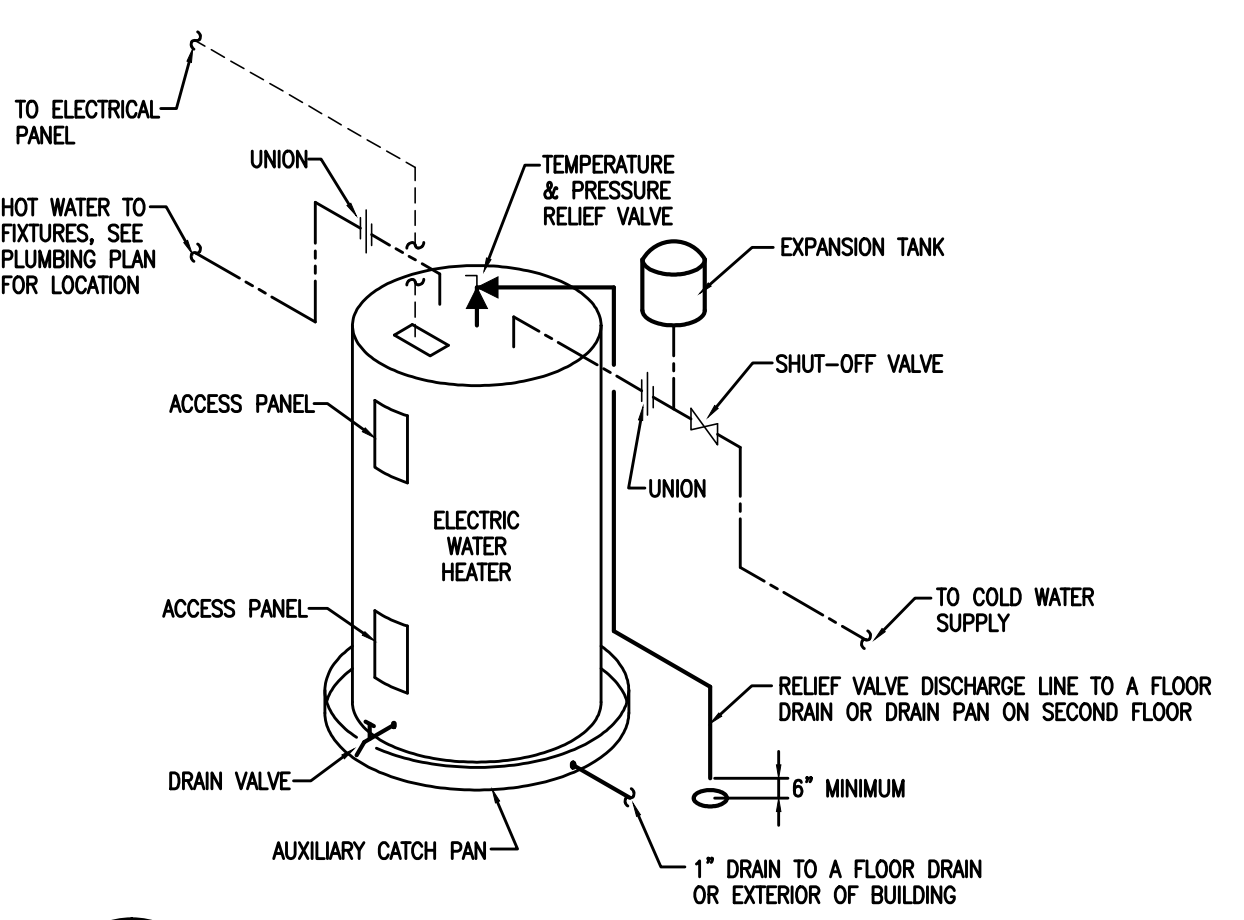
GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON SCREW-TYPE FITTINGS.

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS.

3 PLUMBING NOTES
N.T.S.



2 WH DETAIL
N.T.S.

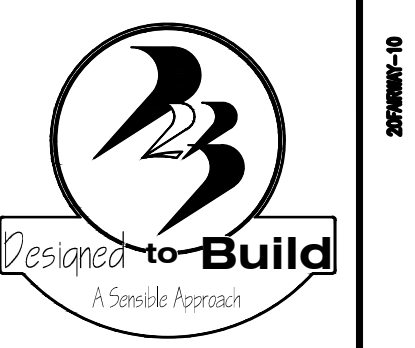
1 PLUMBING PLAN-1ST FLOOR WATER PIPING
3/16"=1'-0"

Coastal Plains Engineering, P.A.
295 LOCKLEAR RD
P.O. Box 1117
Pembroke, NC 28372
Voice: 910-521-7213
Fax: 910-521-7213
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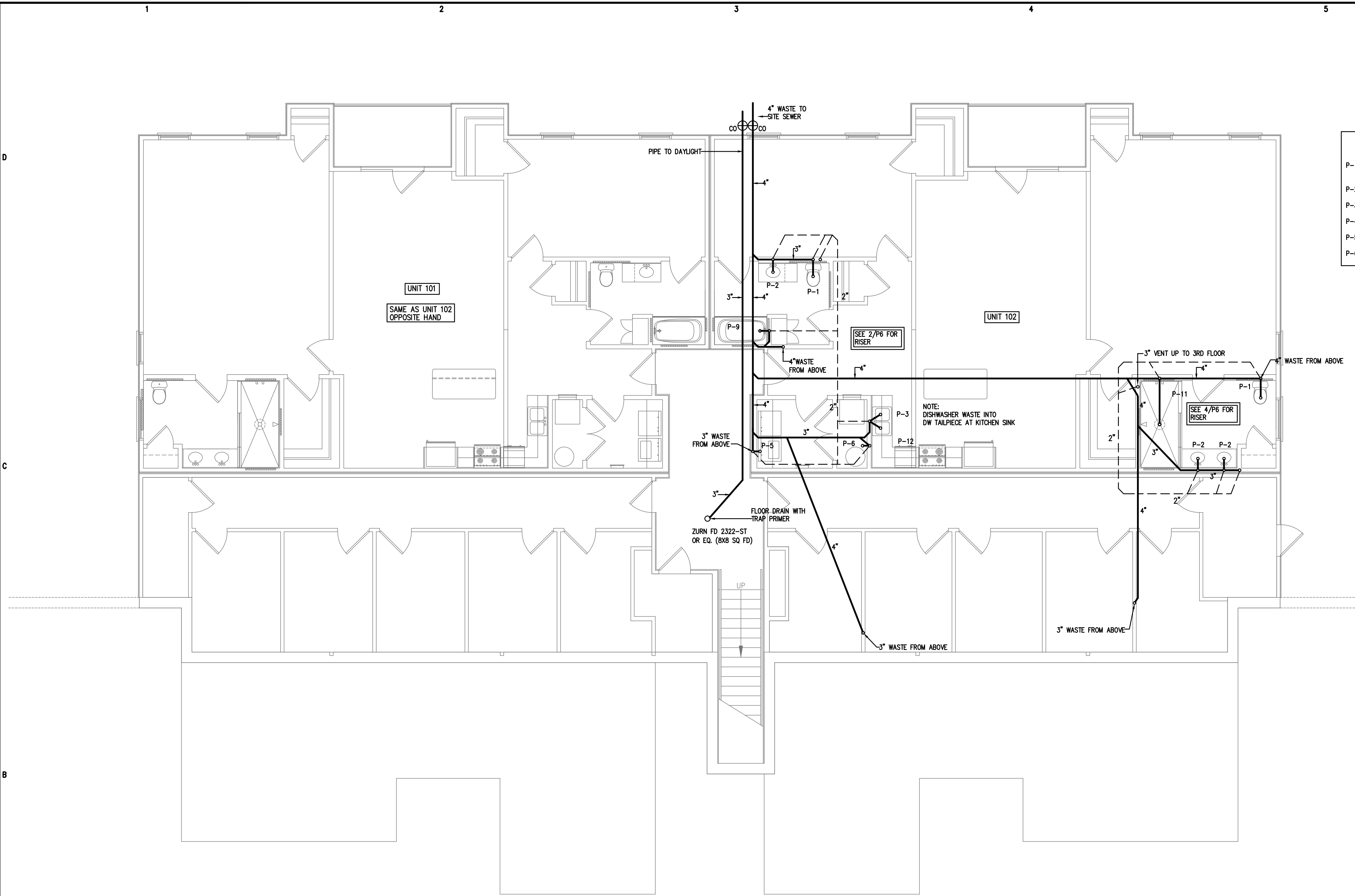
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ANDREW W. PRIVETTE, IA
 1920 FT. BRAGG ROAD
 FAYETTEVILLE,
 NORTH CAROLINA 28303
 TELE. (910) 485-8567
 andy@designedtobuild.com

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P-6 WATER HEATER AND DRAIN PAN	P-12 RESIDENTIAL DISHWASHER



GENERAL PLUMBING SYMBOLS	
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	ELBOW
	WALL CLEANOUT
	FLOOR CLEANOUT
	GATE VALVE
	COLD WATER
	HOT WATER
	VENT PIPING
	WASTE PIPING
	ROOF DRAIN PIPING

1 PLUMBING PLAN-1ST FLOOR WASTE/VENT PIPING
 P2 3/16"=1'-0"

FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING _____
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DESCRIPTION	DATE	BY

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 FIRST FLOOR

P2
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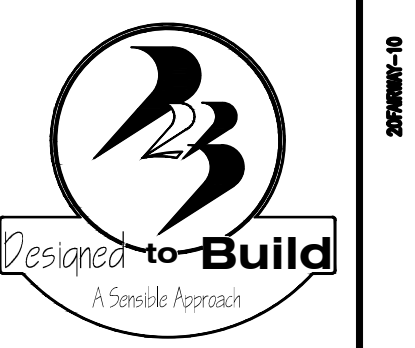
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 Pembroke, NC 28372
 Voice: 910-521-7213
 Fax: 910-521-7213
 www.coastalplainseng.com
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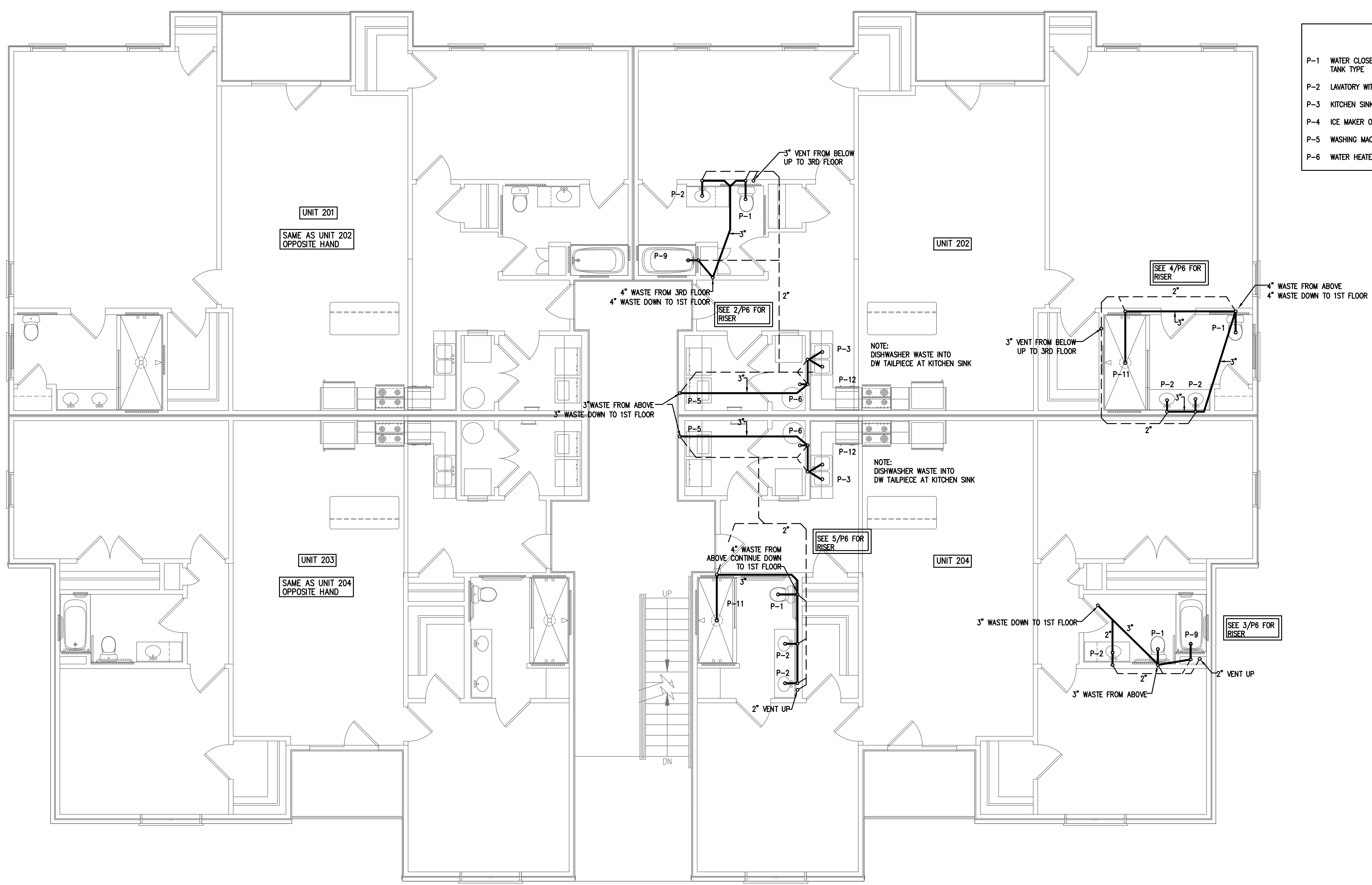
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 FAYETTEVILLE,
 NORTH CAROLINA 28303
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1 PLUMBING PLAN-2ND FLOOR WASTE/VENT PIPING
 P4 3/16"=1'-0"

FAIRWAY POINTE at ANDERSON CREEK CLUB
 THREE-STORY, TEN-UNIT BUILDING
 GALLERY DRIVE, BUILDING _____
 SPRING LAKE, NORTH CAROLINA 28390

NO.	DATE	DESCRIPTION	CHKD.

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SHEET TITLE:
 PLUMBING PLAN
 SECOND FLOOR

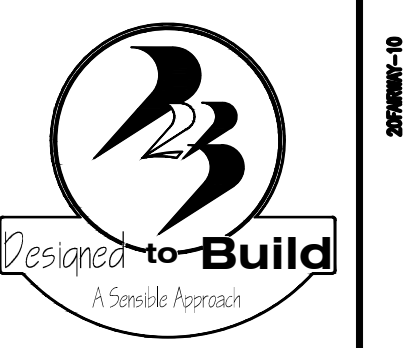
P4
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 295 LOCKLEAR RD
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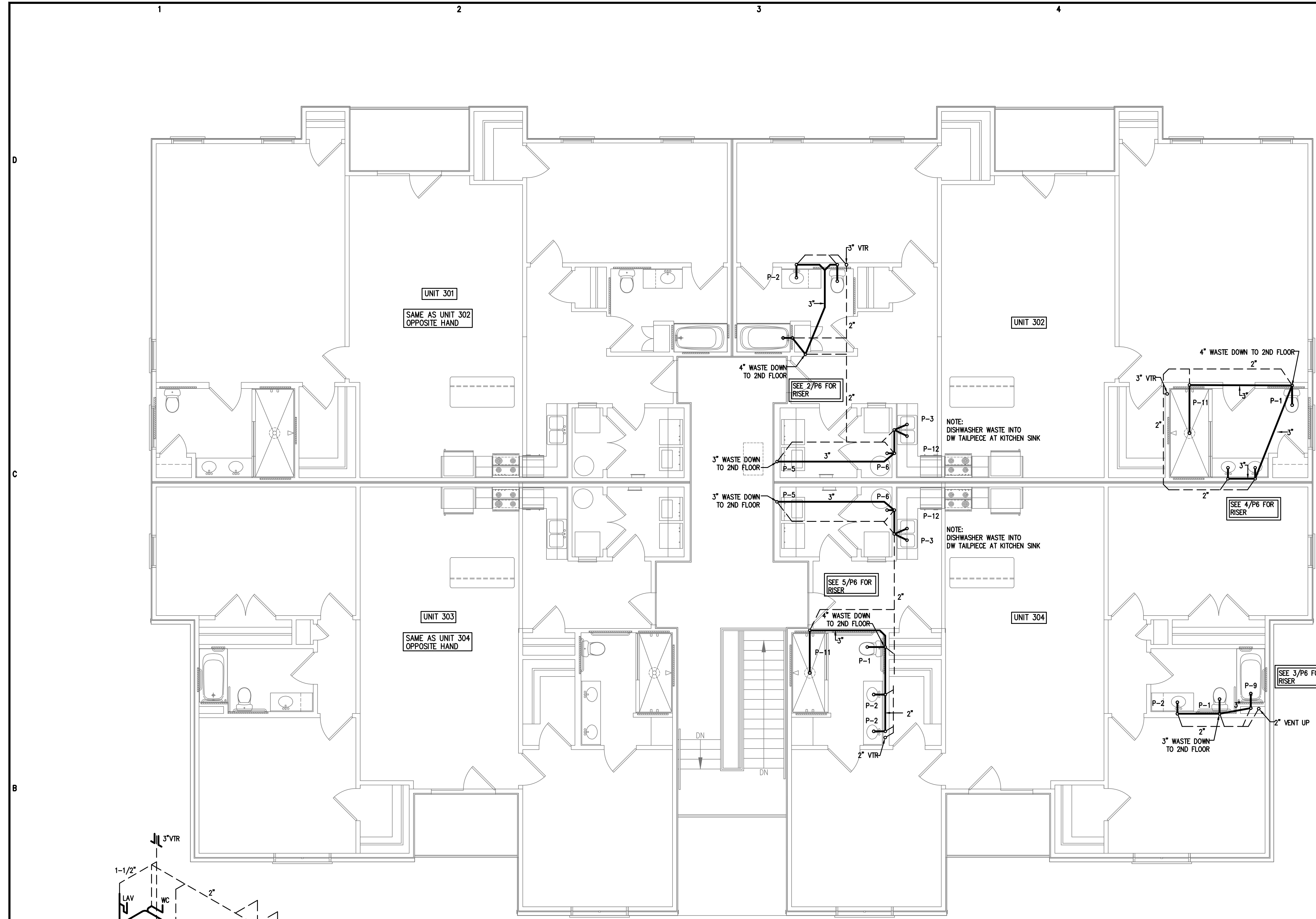
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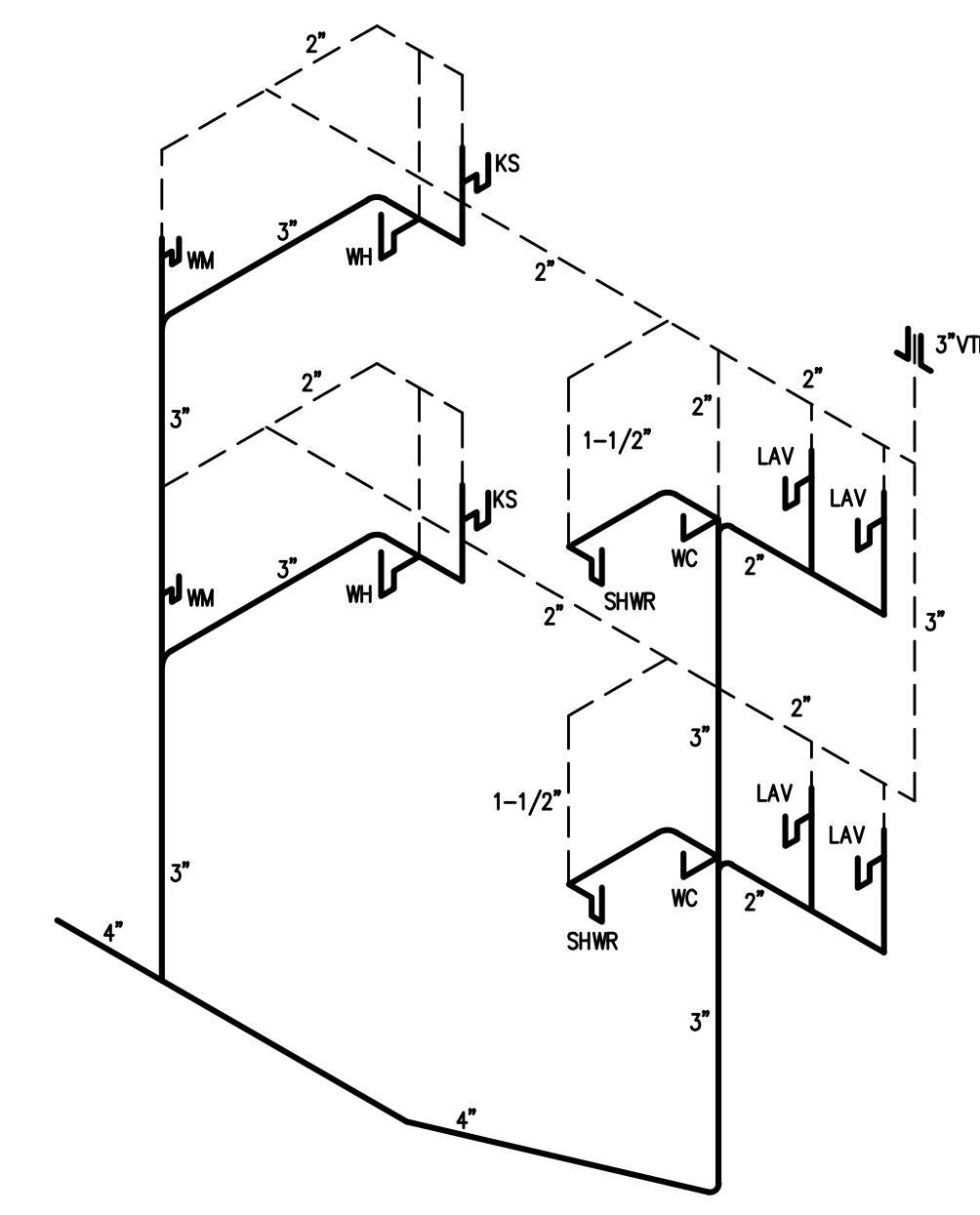
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 PLUMBING PLAN
 THIRD FLOOR

P6
 SHEET OF



1 PLUMBING PLAN-3RD FLOOR WASTE/VENT PIPING
 3/16"=1'-0"

4 WASTE RISER DIAGRAM
 N.T.S.



5 WASTE RISER DIAGRAM
 N.T.S.

2 WASTE RISER DIAGRAM
 N.T.S.

3 WASTE RISER DIAGRAM
 N.T.S.

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