

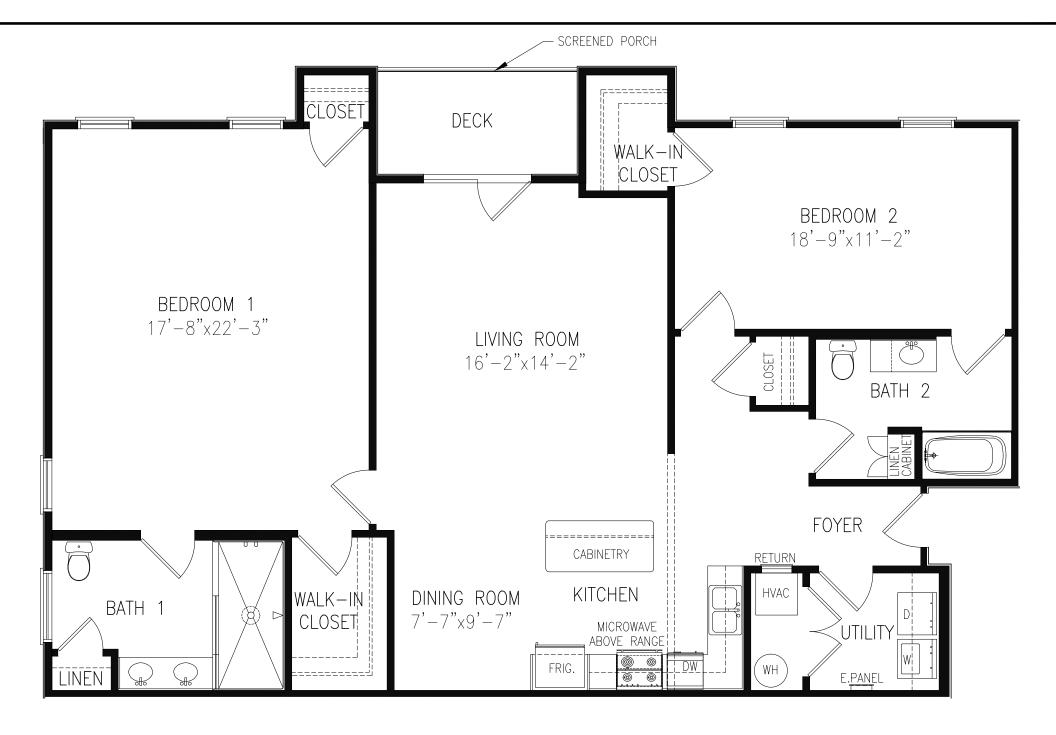
SCALE: N.T.S.

FRONT UNIT - 3 BEDROOM - 2 BATH FLOOR PLAN

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





 $\left(A1\right)$

SCALE: N.T.S.

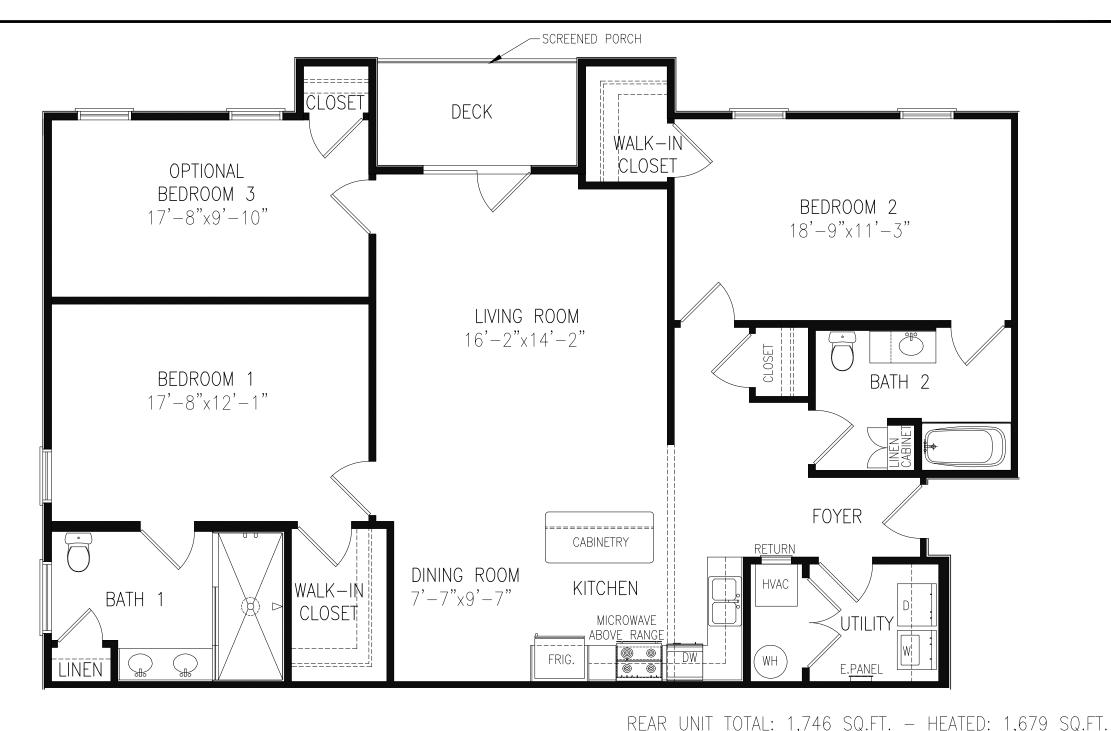
REAR UNIT — 2 BEDROOM — 2 BATH FLOOR PLAN

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





REAR UNIT - 3 BEDROOM - 2 BATH FLOOR PLAN

SCALE: N.T.S.

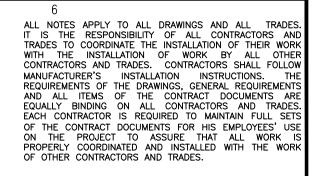
SECOND FLOOR TYPE "B" UNIT SHOWN

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



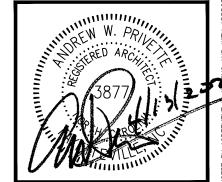
	APPENDIX B 2	2018 NC BUILDING C	ODE SUMMARY
	NAME OF PROJECT: FAIRWAY POINT APARTMENTS - 3 STORY BUILDING - 10 UNITS ADDRESS: ANDERSON CREEKCLUB - FAIRWAY POINT DRIVE, NORTH CAROLINA 28390 OWNER/AUTHORIZED AGENT: BRYAN BENOIT PHONE NUMBER: 910-580-2425 EMAIL: BRYANBENOIT@HUFFFAMILYOFFICE.COM OWNED BY: CITY/COUNTY PRIVATE STATE CODE ENFORCEMENT JURISDICTION: CITY OF . COUNTY OF HARNETT STATE	PERCENTAGE OF WALL OPENING CALCULATIONS FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES (PROTECTION (TABLE 705.8) > 20' UP, S 75 28/2,021=1.4 > 20' UP, S 75 320/1,649=19.4	LIST OF DRAWINGS INFORMATIONAL
D	CONTACT: ANDREW W. PRIVETTE DESIGNER FIRM NAME LICENSE PHONE E-MAIL ARCHITECTURAL DESIGNED TO BUILD ANDREW W. PRIVETTE 3877 910-485-8567 ANDY@DESIGNEDTOBUILD.COM CIVIL BY OWNER UNDER SEPARATE COVER ELECTRICAL COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINSENG@GMAIL.COM PLUMBING COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINSENG@GMAIL.COM MECHANICAL COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINSENG@GMAIL.COM MECHANICAL COASTAL PLAINS ENGR. CHRISTOPHER LOCKLEAR 20193 910-521-7213 COASTALPLAINSENG@GMAIL.COM	> 20' UP, S 75 390/I,649=23.6 > 20' UP, S 75 5/2,021=0.2 LIFE SAFETY SYSTEM REQUIREMENTS EMERGENCY LIGHTING: YES NO EXIT SIGNS: YES NO FIRE ALARM: YES NO SMOKE DETECTION SYSTEMS: YES NO CARBON MONOXIDE DETECTION: YES NO	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
	SPRINKLER-STANDPIPE BY OWNER UNDER SEPARATE COVER STRUCTURAL KIRK M. EDMONDS, PE KIRK EDMONDS 12047 843-437-7131 KEDMONDS.PE@GMAIL.COM RETAINING WALLS > 5' HIGH	LIFE SAFETY PLAN REQUIREMENTS LIFE SAFETY PLAN SHEET NUMBER: G-102 IF IRE 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 (1017) COMMON PATH OF TRAVEL DISTANCES (T 1006.2.1 &T 1006.3.2(I)) DEAD END LENGTHS (1020.4) 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	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
	BUILDING DATA CONSTRUCTION TYPE:	■ A 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 (IOIO.I.IO) LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AMOUNT OF DELAY (IOIO.I.9.7) LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (IOIO.I.9.9) LOCATION OF DOORS WITH HOLD-OPEN DEVICES	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
С	ALLOWABLE AREA PRIMARY OCCUPANCY CLASSIFICATION(S): ASSEMBLY	ACCESSIBLE PARKING (II06) LOT OR NUMBER OF PARKING SPACES NUMBER OF ACCESSIBLE SPACES PROVIDED REGULAR WITH VAN WITH 8' VAN WITH 8' ACCESSIBLE PROVIDED ACCESSIBLE PROVIDED ACCESSIBLE PROVIDED ACCESSIBLE PROVIDED ACCESSIBLE PROVIDED ACCESSIBLE PROVIDED ACCESSIBLE ACCESS ISLE ACCESS	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
	RESIDENTIAL	SPECIAL APPROVALS	FIRE ALARM FA-1 FIRE ALARM FIRST FLOOR PLAN FA-2 FIRE ALARM SECOND FLOOR PLAN FA-3 FIRE ALARM THIRD FLOOR PLAN
В	ACTUAL AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B ALLOWABLE AREA OF OCCUPANCY B + N/A = .	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.	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
	C. RATIO (F/P) = 1.0 (F/P) D. MINIMUM WIDTH OF PUBLIC WAY = 30 (W) E. PERCENT OF FRONTAGE INCREASE I _F = 100 (F/P - 0.25) x W/30 = 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 406.5.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH THE TABLE 412.3.1. ⁵ FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2. ALLOWABLE HEIGHT ALLOWABLE SHOW ON PLANS CODE REFERENCE	EXEMPT BUILDING: PROVIDE CODE OR STATUTORY REFERENCE: CLIMATE ZONE: 3-A	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
	BUILDING HEIGHT IN FEET BUILDING HEIGHT IN STORIES BUILDING HEIGHT IN STORIES TABLE 504.3 TABLE 504.4 FIRE PROTECTION REQUIREMENTS FIRE RATING REQUIRED PROVIDED (WITH 1-HR REDUCTION) BUILDING ELEMENT BUILDING ELEMENT BUILDING HEIGHT IN FEET 60 38'-7" TABLE 504.3 TABLE 504.4 BUILDING HEIGHT IN FEET 60 BUILDING HEIGHT IN STORIES BUILDING HEIGHT	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 OPENINGS (WINDOWS OR DOORS WITH GLAZING) U-VALUE OF ASSEMBLY: 0.35 SOLAR HEAT GAIN COEFFICIENT: 0.30 PROJECTION FACTOR: 0.0 ASSUMED DOOR R-VALUES: 0.35	
٨	STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS AND TRUSSES 0	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: 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	
C	SUPPORTING BEAMS AND JOISTS	R-VALUE OF INSULATION: [0] HORIZONTAL/VERTICLE REQUIREMENT: N/A SLAB HEATED: NO	

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1920 FT. BRAGG ROAD FAYETTEVILLE, NORTH CAROLINA 28303 TELE. (910) 485-8567 andy**9**designedtobuild.com



JOB CODE: 20FAIRWAY-10 ESIGNED TO BUILD

COVER SHEET & NC BUILDING CODE SUMMARY

GALLERY DRIVE BUILDING ____ SPRING LAKE, NORTH CAROLINA 28390



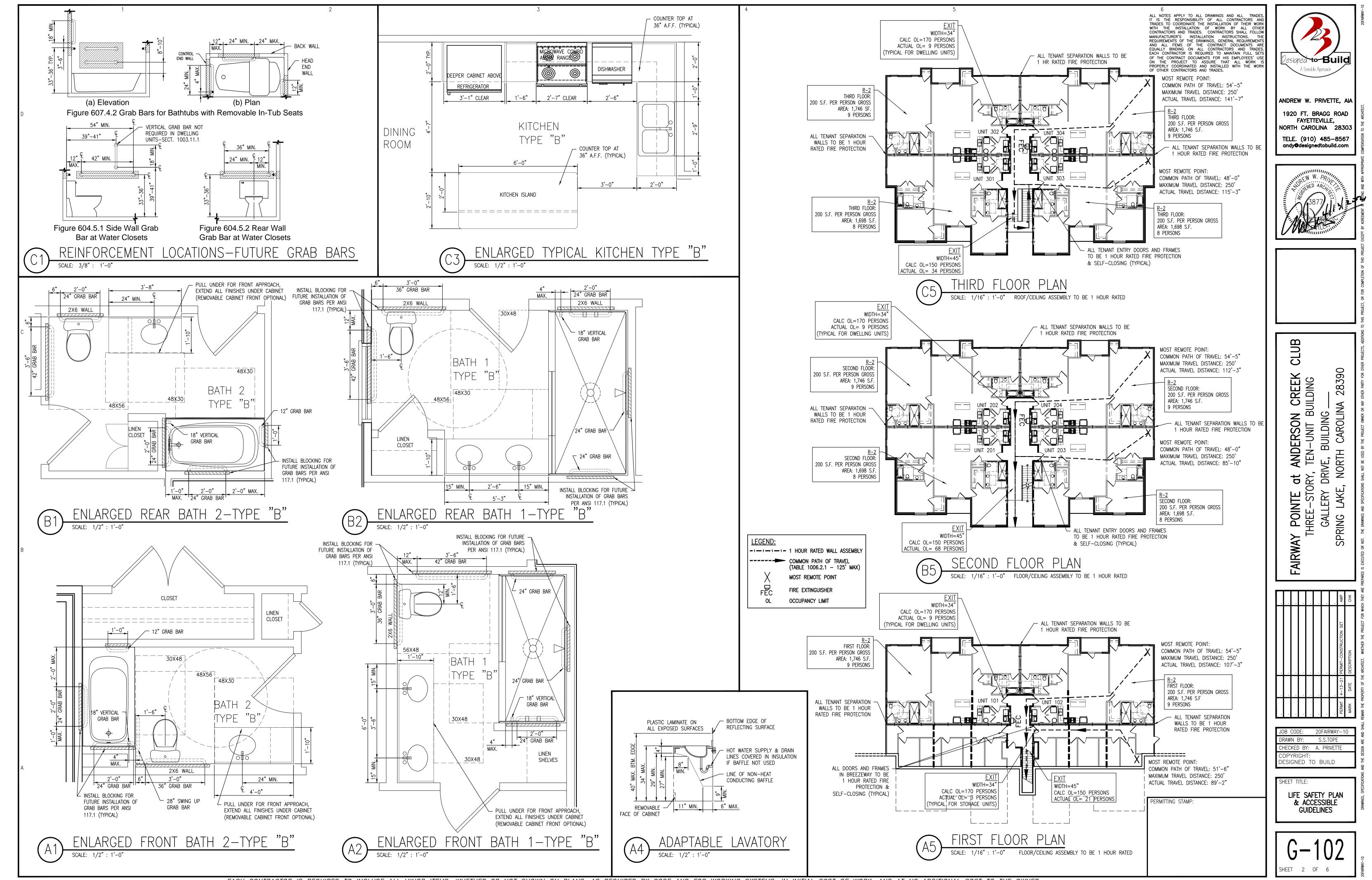
ANDREW W. PRIVETTE, ARCHITECT

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



APRIL 13, 2021 NOVEMBER 30, 2022

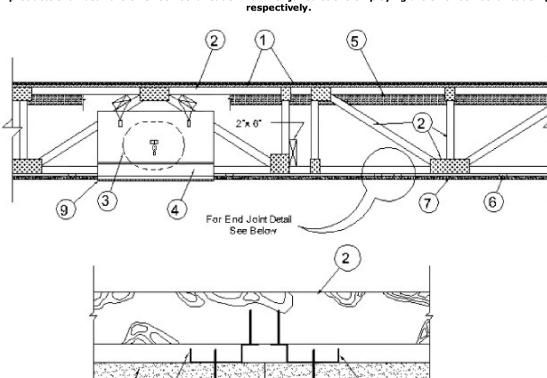


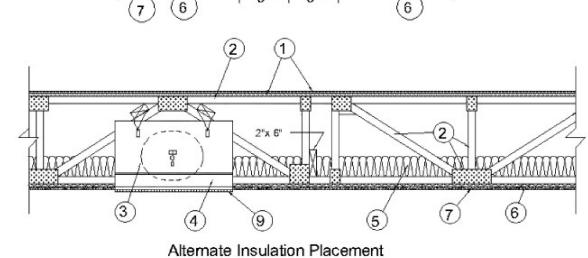


October 10, 2016

Unrestrained Assembly Rating — 1 Hr Finish 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 <u>BXUV</u> or <u>BXUV7</u> * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),





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.

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 ECORE INTERNATIONAL INC - Type QTscu 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

ECORE INTERNATIONAL INC — Type QTrbm 3006-3

HACKER INDUSTRIES INC - FIRM-FILL SCM 125

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).

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 Qurl 55/025

Alternate Floor Mat Materials* - (Optional) - Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor copping thickness shall be a min of 1-1/4 in. (32 mm),

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 400, Quiet Qurl 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 Qurl 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 nom 1-1/4 in, over the 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

HACKER INDUSTRIES INC - Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

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

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

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

UNITED STATES GYPSUM CO — LEVELROCK® Brand Sound Reduction Board

UNITED STATES GYPSUM CO - Type LRK

Vapor Barrier — (Optional) — Nom 0.030 in, thick commercial asphalt saturated felt.

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 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

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 aving equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

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 LLC - 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 naving 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

inish 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

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 aving 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 G40 and AccuLevel SD30.

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 D-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 Classified Companies.

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 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 Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* - (Optional) - Floor mat material Nom, 3/4 in, thick loose laid over the subfloor. Floor topping KEENE BUILDING PRODUCTS CO INC - Type Quiet Qurl 65/075, Quiet Qurl 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 Qurl 52/013 and Quiet Qurl 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 loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 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 paving equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Vapór Bárrier – (Óptiónal) – Nom Ø.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, RFU, RFR, Ortecrete

Floor Mat Materials* - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding MAXXON CORP - Type Acousti-Mat I, Acousti-Mat II, Acousti-Mat II HP, Enkasonic 9110, Enkasonic 9110 HP, Acousti-Mat 3, Acousti-Mat 3 HP, Acousti-Mat LP, 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, primers, and use of crack suppression reinforcemen MAXXON CORP — Crack Suppression Mat (CSM) or Maxxon Reinforcement (MR)

System No. 10

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. 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.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

KEENE BUILDING PRODUCTS CO INC - Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

KEENE BUILDING PRODUCTS CO INC - Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

KEENE BUILDING PRODUCTS CO INC - Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

Finish Flooring — Floor Topping Mixture* — Min 3/4 in thickness of floor topping having a min compressive strength of 1000 psi. Réfer to manufacturer's instructions accompanying the material for specific mix design: DEPENDABLE LLC - GSL M3.4, 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

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.

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.

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.

Alternate Floor Mat Materials* (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom Joose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

2. Trusses — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. 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 approx. 7/8 in. centers with four rows of teeth per inch of plate width.

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

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 in, per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers 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 in. Max square size shall be 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 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 installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) not to exceed 196 in.² 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 manufacturers 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. Aggrégate 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 (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-RD05C5

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 RDFU

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 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 (Item 9) shall be installed in accordance with installation instructions

BROAN-NUTONE LLC - Models RDJ1 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 6) or furring channels (Item 6A) 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 the 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 gypsum panel membrane. 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 Ú S'GRÉENFIBER LLC — INS735, INS745, INS765LD & INS770LD to be used with dry application only.

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 at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. When Item 5B (Fiber prayed, Loose Fill) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B.

US GREENFIBER LLC - INS735, INS745, INS765LD & INS770LD to be used with dry application only.

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 S 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.

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

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 trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG 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, and secured to alternating trusses with No. 8 x 2-1/2 in. course drywall screw through the center grommet. When insulation, Items 5, 5A or 5B 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, 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. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two selftapping 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 ioints, as described in Item 7. When Fiber, Sprayed (Item 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed as described in Item 7.

PAC INTERNATIONAL L.L.C. — Types RSIC-1, RSIC-1 (2,75).

6B. Alternate Steel Framing Members — (Not Shown) — As an alternate to Items 6 and 6A, main runners, cross tees, cross

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 galy 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 at 8 in. from each side of butted gypsum panel end joints. The cross tees or cross 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 galy 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 member ends and for screw-attachment of the gypsum panel.

CGC INC — Type DGL or RX

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

USG INTERIORS LLC - Type DGL or RX

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in, OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galy 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, 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. Adjoining channels are overlapped as described in Item a. 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.

PLITEQ INC — Type GENIECLIP

6D. Alternate Steel Framing Members* - (Not Shown) - As an alternate to item 6, furring channels and Steel Framing

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-5/8 in wide by 7/8 in deep, spaced 16 in. OC, perpendicular to trusses. When insulation, Items 5, is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

b. Steel Framing Members* — Used to attach furning channels (Item a) to the 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.

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

7. **Gypsum Board*** — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S 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 shown in end joint detail. When Steel Framing Members (Item 6A, 6C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss with one clip at each end of the channel. When Steel Framing Members* (Item 6B) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in, long. Type S bugle-head screws spaced in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in, long Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 2 ft OC. When Fiber, Sprayed (Items 5A or 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer gypsum board secured with 1 in, long Type S 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. End joints secured to both resilient channels as shown in end joint detail. Outer layer gypsum board secured with 1-5/8 in. long Type S 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. Outer layer shall be finished as described in Item 8. When both Steel Framing Members (Item 6A) and Fiber, Sprayed (Items 5A or 5B) are used, furring channels spaced 12 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimension perpendicular to furring channels. Base layer secured to furring channels with nom 1 in. long Type S bugle head screws spaced 8 in. OC along butted end joints and in the field of the board. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. 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 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the underside of the truss with one RSIC-1 clip at each end of the channel. Outer layer secured to furring channels using 1-5/8 in. long Type S screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When Steel Framing Members (Item 6D) 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 joist 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

CGC INC — Types C, IP-X2, IPC-AR.

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

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

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape 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. 9. Grille — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

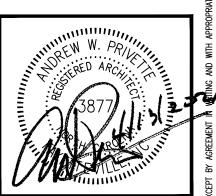
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2016-10-10

PERMITTING STAMP:

ANDREW W. PRIVETTE, AIA 1920 FT. BRAGG ROAD FAYETTEVILLE,

NORTH CAROLINA 28303 TELE. (910) 485-8567 andy**©**designedtobuild.com



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OINTE PEE-ST

SPRING

IOB CODE: 20FAIRWAY-10 S.S.TOPE HECKED BY: **A. PRIVETTE** ESIGNED TO BUILD

FIRE RATED UL-L576 FLOOR-CEILING

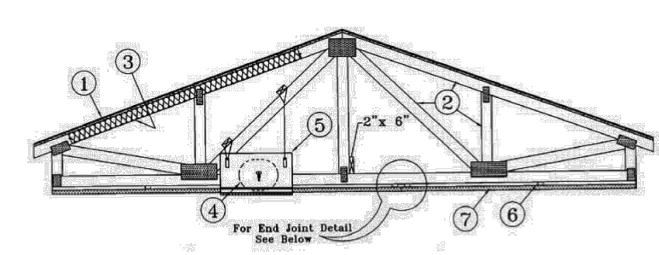
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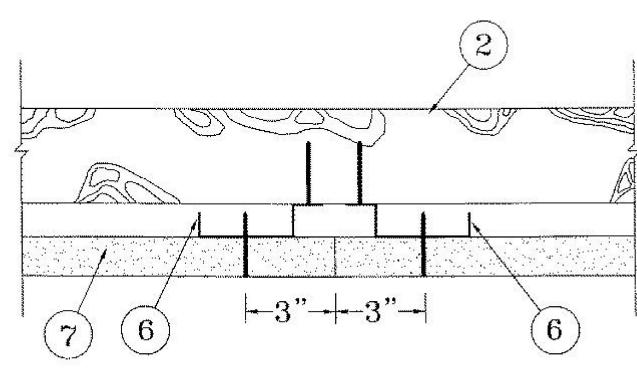
September 20, 2016

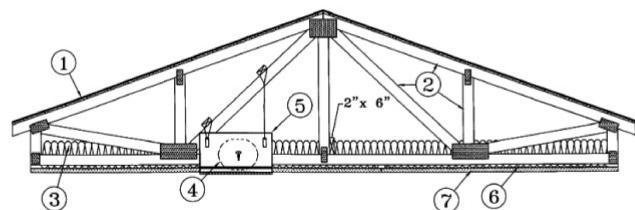
Unrestrained Assembly Rating — 1 Hr

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 BXUV or BXUV7 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),







Alternate Insulation Placement

1. Roofing System* — Any UL Class A, B or C Roofing System (TGFU) 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 of the exterior walls, 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. Batts 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 6Ba) 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 applied 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 method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft^3 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/ft³ 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.

USGREENFIBERLLC — 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

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 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 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

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 in. and the width not to exceed 7-15/16 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 RDJ1 and 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 spaced, 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 escribed 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. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-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. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-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 RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-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. Batts 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., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy 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 each 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 ICW.

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 6Cb. 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.

PLITEQ 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 12 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. The second secon

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

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

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. STUDCO 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 endjoints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted endjoints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum

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 continuous 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 joist 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

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 cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 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 screwattachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from

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 ZAWAWI DRYWALL L L C SFZ — Type C

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

7A. Gypsum Board* — For use with Steel Framing Members (Item 6D) when Batts 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 midspan 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 wallboard 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 not less than 32 in. 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 Batts 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 steel 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 ZAWAWI DRYWALL L L C SFZ — Type C

USG MEXICO S A DE C V — 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 joist 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

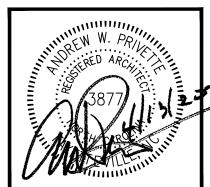
<u>Last Updated</u> on 2016-09-20

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADE IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AN TRADES TO COORDINATE THE INSTALLATION OF THEIR WOR 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 SE OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' U ON THE PROJECT TO ASSURE THAT ALL WORK PROPERLY COORDINATED AND INSTALLED WITH THE WOR OF OTHER CONTRACTORS AND TRADES.



ANDREW W. PRIVETTE, AIA 1920 FT. BRAGG ROAD

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



CLUB

CREEK 2839

BUILDING ____ ANDERSON TEN-UNIT BL

at / PRY, DRIV POINTE HREE-ST(

JOB CODE: 20FAIRWAY-10 S.S.TOPF ESIGNED TO BUILD

FIRE RATED UL-P522 R00F-CEILING ASSEMBLY

PERMITTING STAMP:

July 11 2019

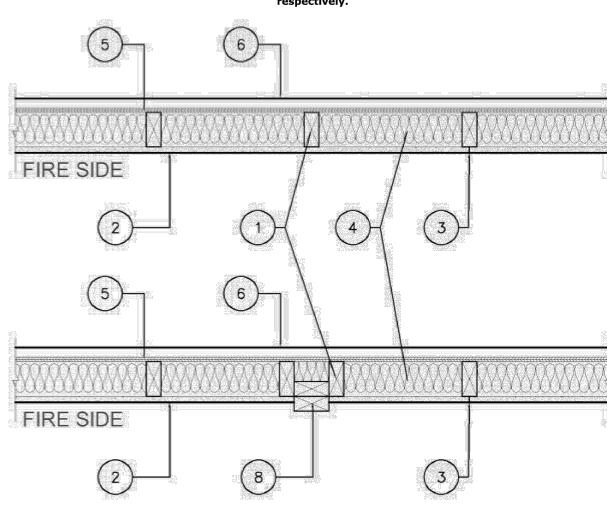
Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only

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 <u>BXUV</u> or <u>BXUV7</u>

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



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 nailed 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

 $\textbf{AMERICAN GYPSUM CO}~\underline{(\text{View Classification})} - \text{CKNX.R14196}$

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

CERTAINTEED 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

 $\textbf{NATIONAL GYPSUM CO}~\underline{(\textit{View Classification})} - \textit{CKNX.R3501}$

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 DRYWALL SFZ LLC (<u>View Classification</u>) — 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

JL U356 1—HR EXTERIOR BEARING WALL ASSEMBLY

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

CERTAINTEED 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.

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

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

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.

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. **CERTAINTEED 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 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

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 of 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 FSM-C, Type FSW-6, Type FSW-6

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 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.

CERTAINTEED 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 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*

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

(BZJZ) Category in the Fire Resistance Directory for names of Classified Companies

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 4.58 lb/ft ³.

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 $4.30 \, \text{lbs/ft}^3$.

 ${\bf INTERNATIONAL\ CELLULOSE\ CORP-C} {\bf Celbar-RL}$

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

lb/ft³, in accordance with the application instructions supplied with the product.

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** (BTAT) category in the Building Materials Directory for names of

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

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 CCVW) 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 manufacturers 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 retainer 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

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)

channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each

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

clip for use with 2-23/32 in. wide furring channels.

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 selftapping #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

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

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

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.

place with two No. 8 15 \times 1/2 in. Philips 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.

Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in

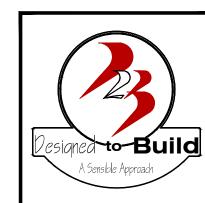
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

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 with 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.

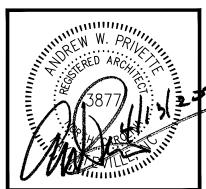
Last Updated on 2018-07-11

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, ALA

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CLUB

at ANDERSON CREEK
)RY, TEN-UNIT BUILDING
DRIVE, BUILDING
, NORTH CAROLINA 28390

WAY POINTE at AND THREE—STORY, TENGALLERY DRIVE, E

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

FIRE RATED
UL-U356 EXTERIOR
WALL ASSEMBLY

PERMITTING STAMP:

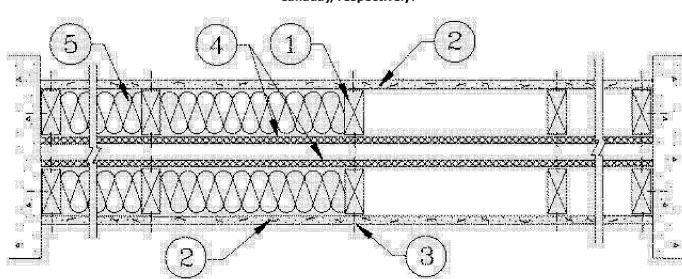
G-105

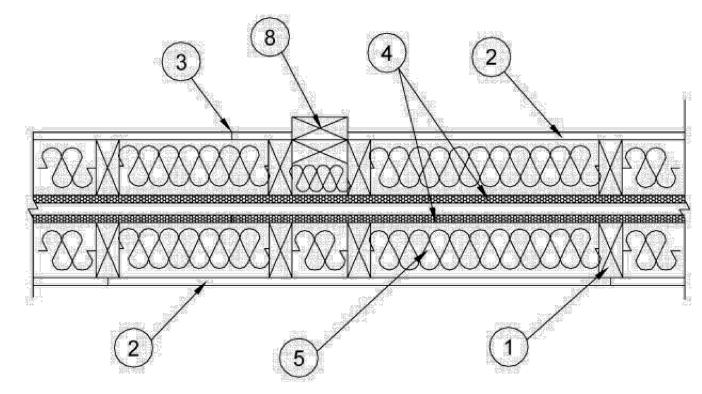
Bearing Wall Rating — 1 Hr.

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 <u>BXUV</u> or <u>BXUV7</u>

* 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. L501, G512 or U305.** Nom 5/8 in. thick 4 ft wide. Gypsum board or lath applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 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

 $\textbf{CERTAINTEED GYPSUM INC } \underline{ \text{(View Classification)}} - \text{CKNX.R3660}$

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

 $\textbf{NATIONAL GYPSUM CO} \hspace{0.1cm} \underline{\text{(View Classification)}} - \text{CKNX.R3501}$

 $\textbf{PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM} \ \underline{(View Classification)} - \text{CKNX.R7094}$

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

 $\textbf{USG BORAL ZAWAWI DRYWALL L L C SFZ} \ \underline{(View \ Classification)} - \mathsf{CKNX.R38438}$

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

1-HR SEPARATION WALL UL NO. U341 ASSEMBLY

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. L501, G512 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.

GC 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

CERTAINTEED 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 of other than 48 in., gypsum boards are to be installed horizontally.

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

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

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 Deadening 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.

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.

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.

 ${f NATIONAL\ GYPSUM\ CO}-{f Type\ FSW}.$

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

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. 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

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. $10 \times 2-1/2$ 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 with 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

Designed to Build
A Sensible Approach

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

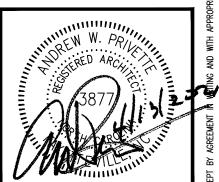
MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS

OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES' US ON THE PROJECT TO ASSURE THAT ALL WORK

PROPERLY COORDINATED AND INSTALLED WITH THE WOR OF OTHER CONTRACTORS AND TRADES.

ANDREW W. PRIVETTE, AM

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X CLUB

At ANDERSON CREEK
RY, TEN-UNIT BUILDING
DRIVE, BUILDING
NORTH CAROLINA 28390

AY POINTE at ANDE
THREE—STORY, TENGALLERY DRIVE, B
SPRING LAKE, NORTH

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

SHEET TITLE:

FIRE RATED

UL-U341 WALL

SEPARATION ASSEMBLY

PERMITTING STAMP:

G-106

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.

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

GENERAL STRUCTURAL:

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

= 1.00

DESIGN LOADS

RAVITY LOAD

ROOF LIVE LOAD	= 20 PSF	
PRIVATE ROOMS	= 40 PSF	
PUBLIC ROOMS AND CORRIDORS SERVING THEM	= 100 PSF	
DECKS	= 100 PSF	100 505
STAIRS AND EXITS	15 005	= 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	

ALLOWABLE DEFLECTION FACTOR FOR

IMPORTANCE FACTOR (I)

<u>ROOF</u>	
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 = L/600

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

SEISMIC DATA

Ss = .241	S1 = .1026
SITE CLASSIFICAT	TION PERSUMPTIVE = D
Fa = 1.60	Fv = 2.39
Sms = .385	Sm1 = .245
SEISMIC DESIGN	COEFF: Sds = .257 Sd1 = .16

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

SEISMIC DESIGN CATEGORY = C

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	SLUMP	MAXIMUM WATER/CEMENT RATIO BY WGT.
FOUNDATIONS (GRADE BEAMS & FOOTINGS)	3000 PSI	1 ½"	3"±1"	0.59 (0.46)
SLABS ON GRADE	3000 PSI	1"	4"±½"	0.48 (0.48)

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

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 RFINFORCEMENT SHALL BE:

/\L//\	KEIN OKOLMENT STILLE BE.				
А.	CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH	:	3"		
В.	EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS #5 BARS AND SMALLER	: :	2" 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 BA	TOP BARS		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 FORMANUCATURER'S ENGINEER. ALL BRACING AND BRIDGING SHALL BE INDICATED ON THE TRUSS INSTALLATION WOOD CONSTRUCTION (NDS) 2005 EDITION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. ALL STRUCTURAL FRAME MEMBERS SHALL BE AS FOLLOW. UNLESS OTHERWISE

<u>SYP #2</u> (HEADERS & BEAMS)

Гh	BENDING	. 075 noi
Fb	DENDING	: 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
Ε	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
Ε	MODULUS OF ELASTICITY	: 1,200,000 psi
Emin.	MODULUS OF ELASTICITY	: 440,000 psi

DESIGN PROPERTIES FOR:

<u>MICROLLAM LVL (BEAM)</u>

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
Ε	MODULUS OF ELASTICITY	: 1,900,000 psi

<u>PARALLAM PSL (BEAM)</u>

GRADE = 2.0E

Fb	BENDING	: 2,900 psi
Fv	SHEAR (parallel to grain)	: 290 psi
Fc $_{\perp}$	COMPRESSION (perpendicular to grain)	: 750 psi
Fc	COMPRESSION (parallel to grain)	: 2,900 psi
Ε	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 "I" 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-I-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

TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN NOTES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT'S JURISTICTION. 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 VERIFYNG 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.

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AN TRADES TO COORDINATE THE INSTALLATION OF THEIR WOR WITH THE INSTALLATION OF WORK BY ALL OT-CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLL MANUFACTURES 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.

PREFABRICATED WOOD TRUSSES - CONT

DRAWINGS.

INSPECTOR FOR FRAMING INSPECTION.

SIZE

2x6 thru 2x12

4x6 thru 4x14

3/2" & 5/4"xPSL OR LVL

7"x PSL OR LVL

4x16

DOUBLE TOP PLATE

DOUBLE TOP PLATE

CONNECTED TO OR BEARING UPON OTHER SUPPORTING TRUSSES.

HANGER SCHEDULE U.N.O.

HANGER SCHEDULE

1. PROVIDE SKEWED, SLOPED HANGERS AS REQ'D.

2. USE HANGERS SHOWN ON SCHED. U.N.O. ON PLANS.

TREATED LUMBER USE "Z" GALVNIZED CONNECTIONS.

FLOOR LEVEL 7/16" OSB SHEATHING 8d 4&6 in.

INTERIOR RUNS

LAPS, SPLICES AND

TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING SHALL BE DESIGNED BY THE TRUSS

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

TRUSSES SHALL BE DESIGNED TO SUPPORT ALL SPECIFIED AND INDICATED LOADS IN ACCORDANCE WITH THE

LOAD COMBINATIONS IN THE BUILDING CODE. THE TRUSS MANUCACTURER SHALL LACATE 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

HANGER

HUSTF

HUTF

ITT

GLTV

3. WHEN HANGERS ARE EXPOSED TO WEATHER OR IN CONTACT OF

I.D. MATERIAL SIZE EDGE SHEATHING EXTENDS FROM BOTTOM OF BOTTOM PLATE

TOP OF WALL LEVEL 7/16" OSB SHEATHING 8d 4&6 in. TO TOP OF TOP PLATE.

DOUBLE TOP PLATE NAILING UNLESS NOTED OTHERWISE

HGLTV

TOP AND BOTTOM PLATE FASTENERS UNLESS NOTED OTHERWISE

SIZE SPACING

16d 16 in.

ΙB



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



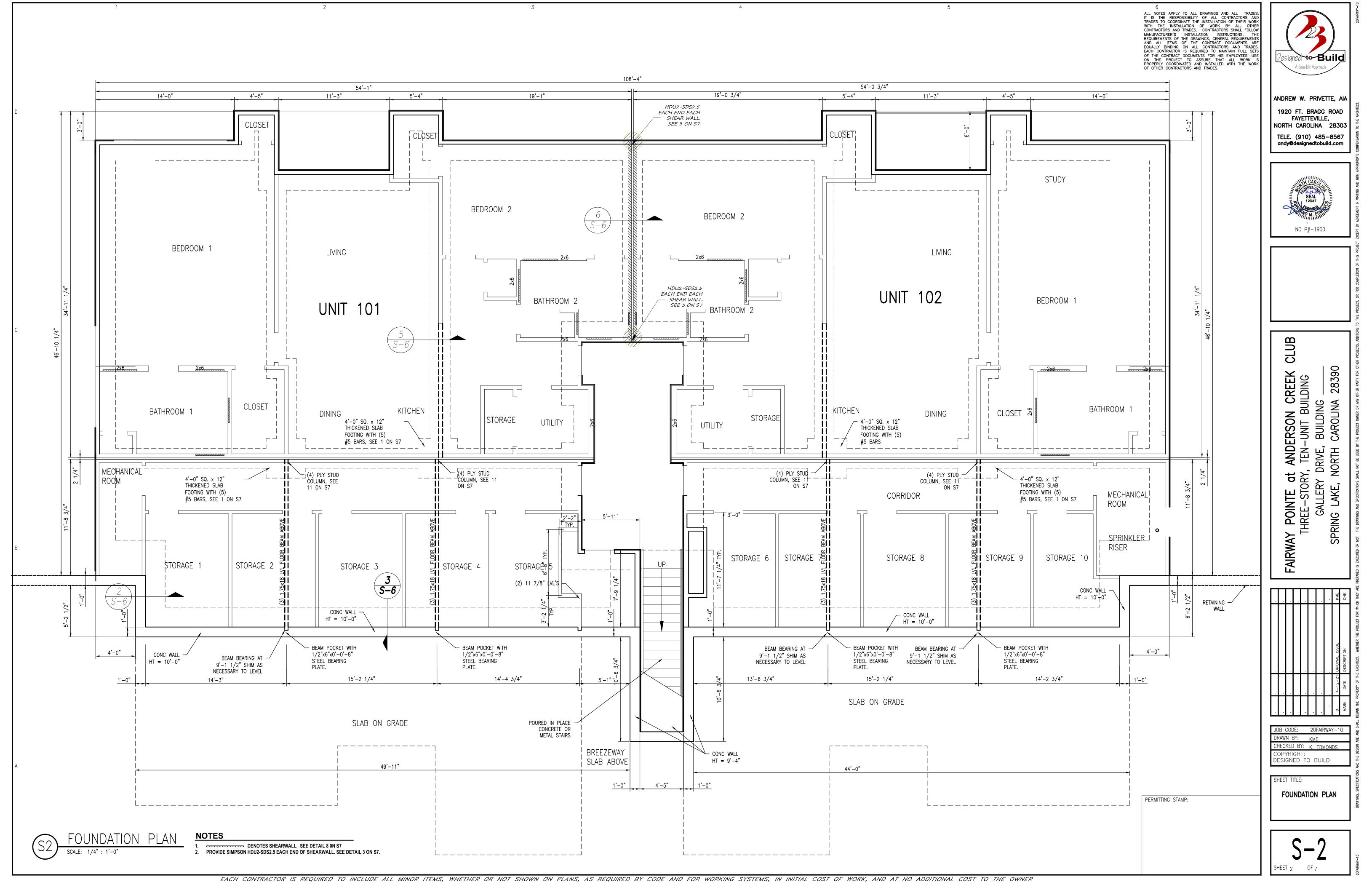
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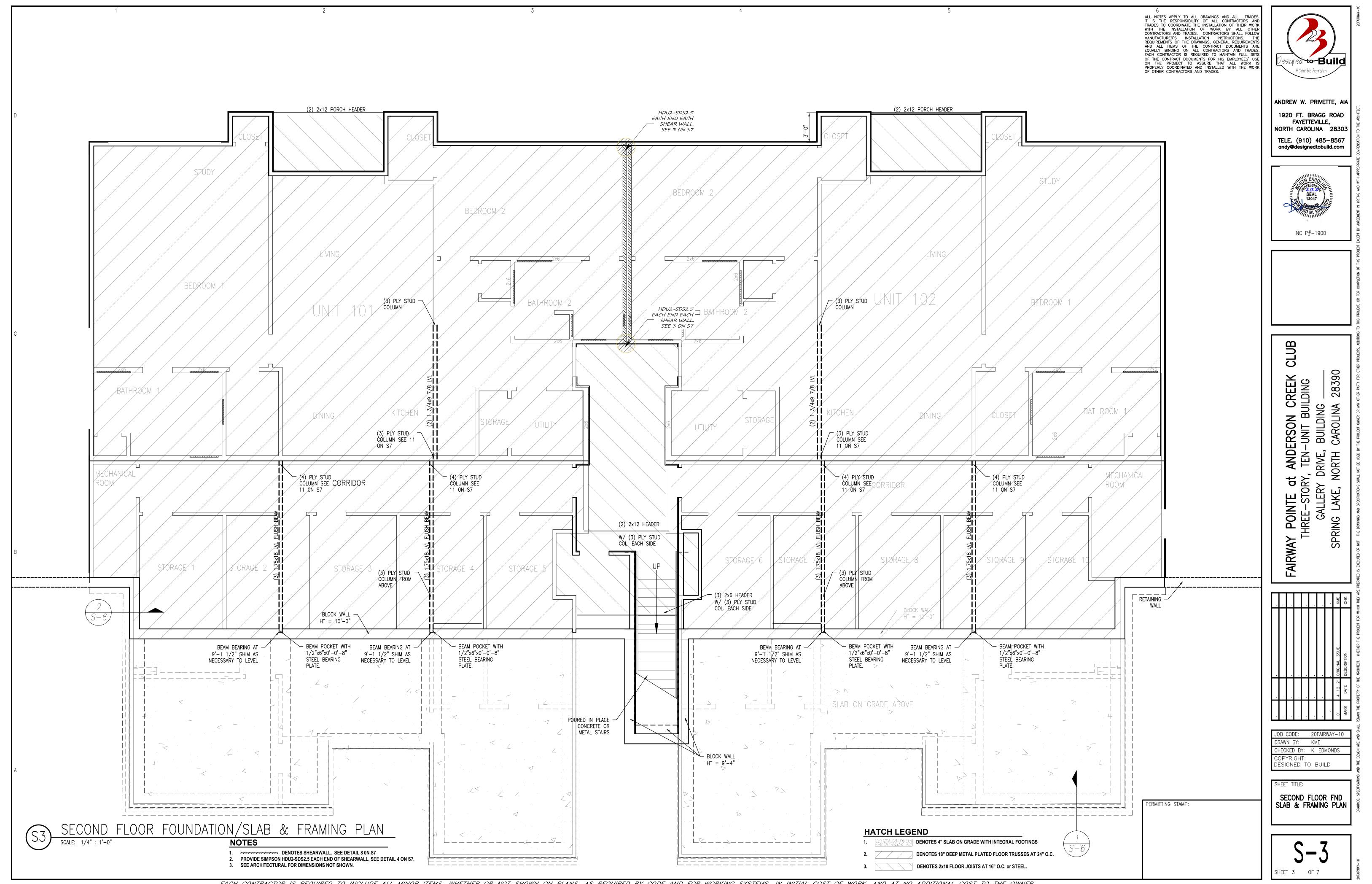
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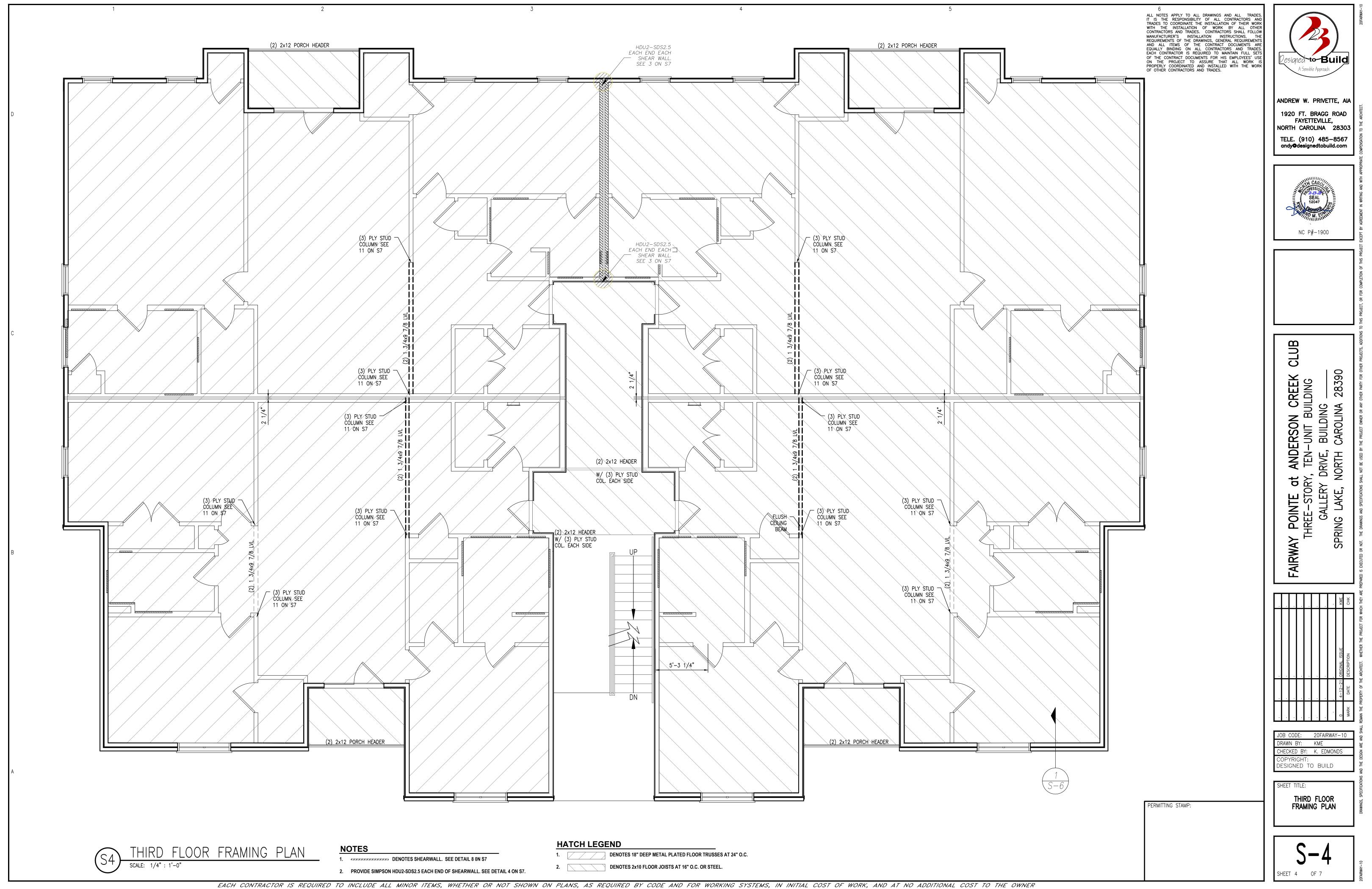
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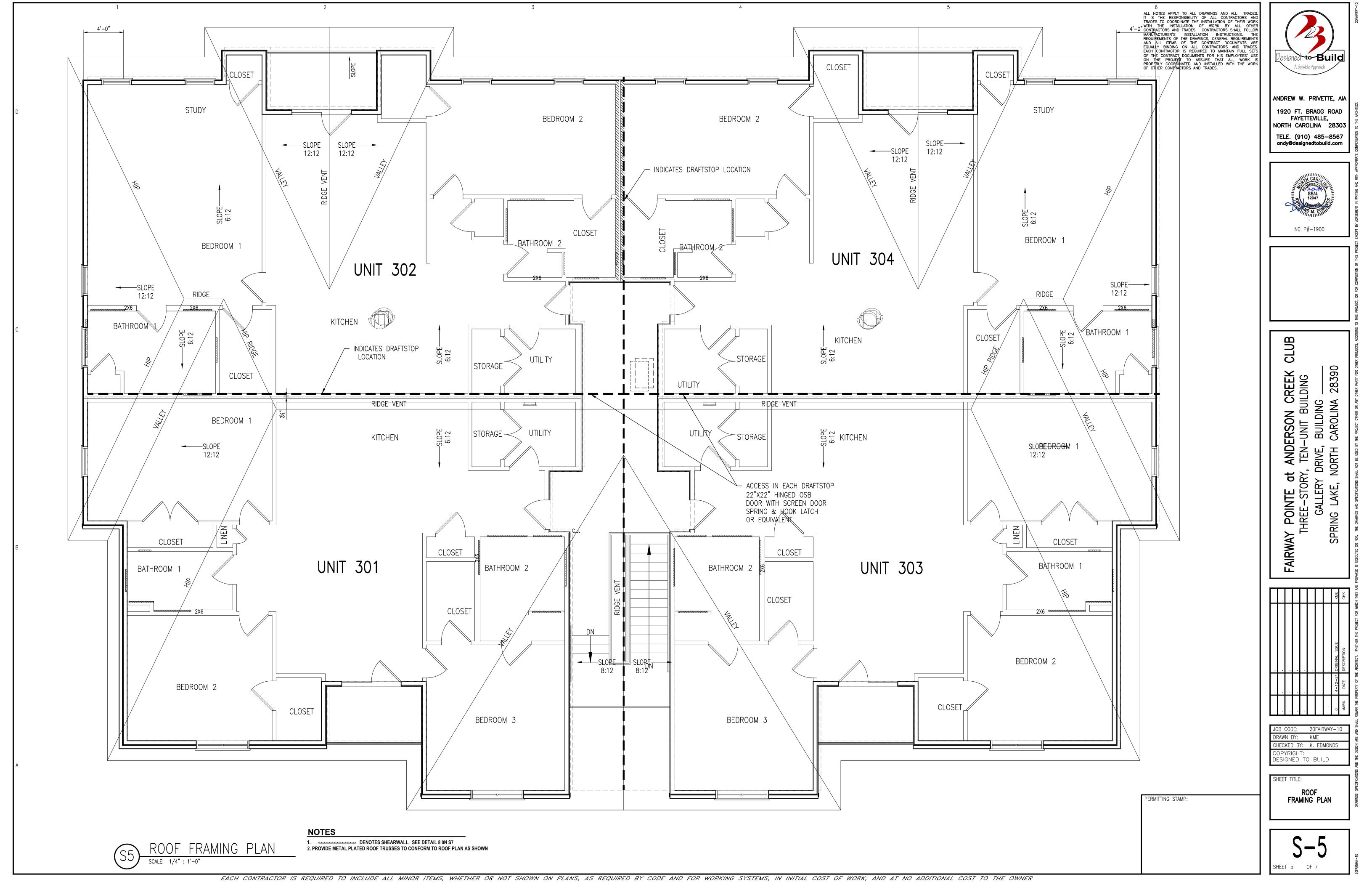
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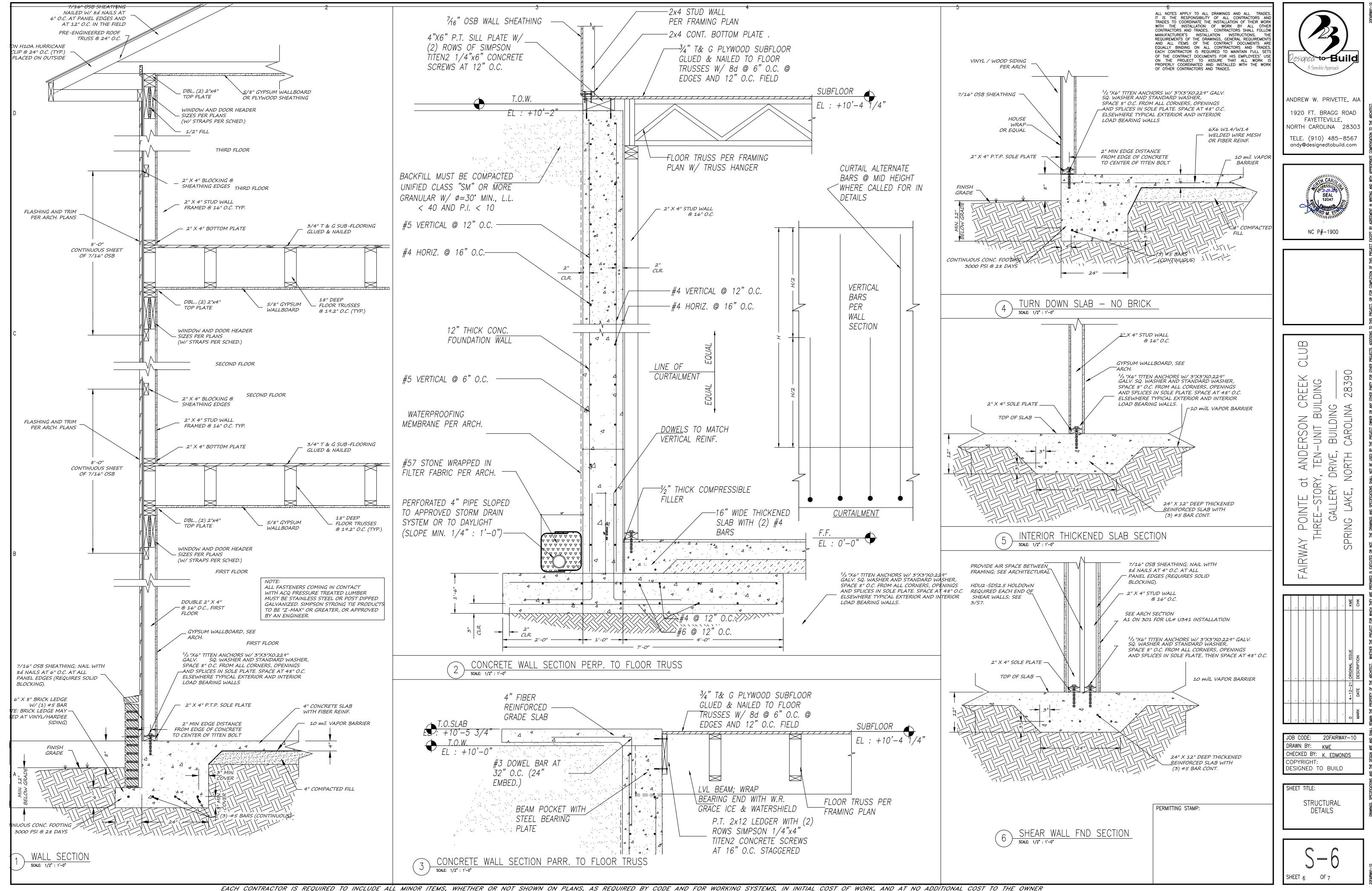
STRUCTURAL NOTES

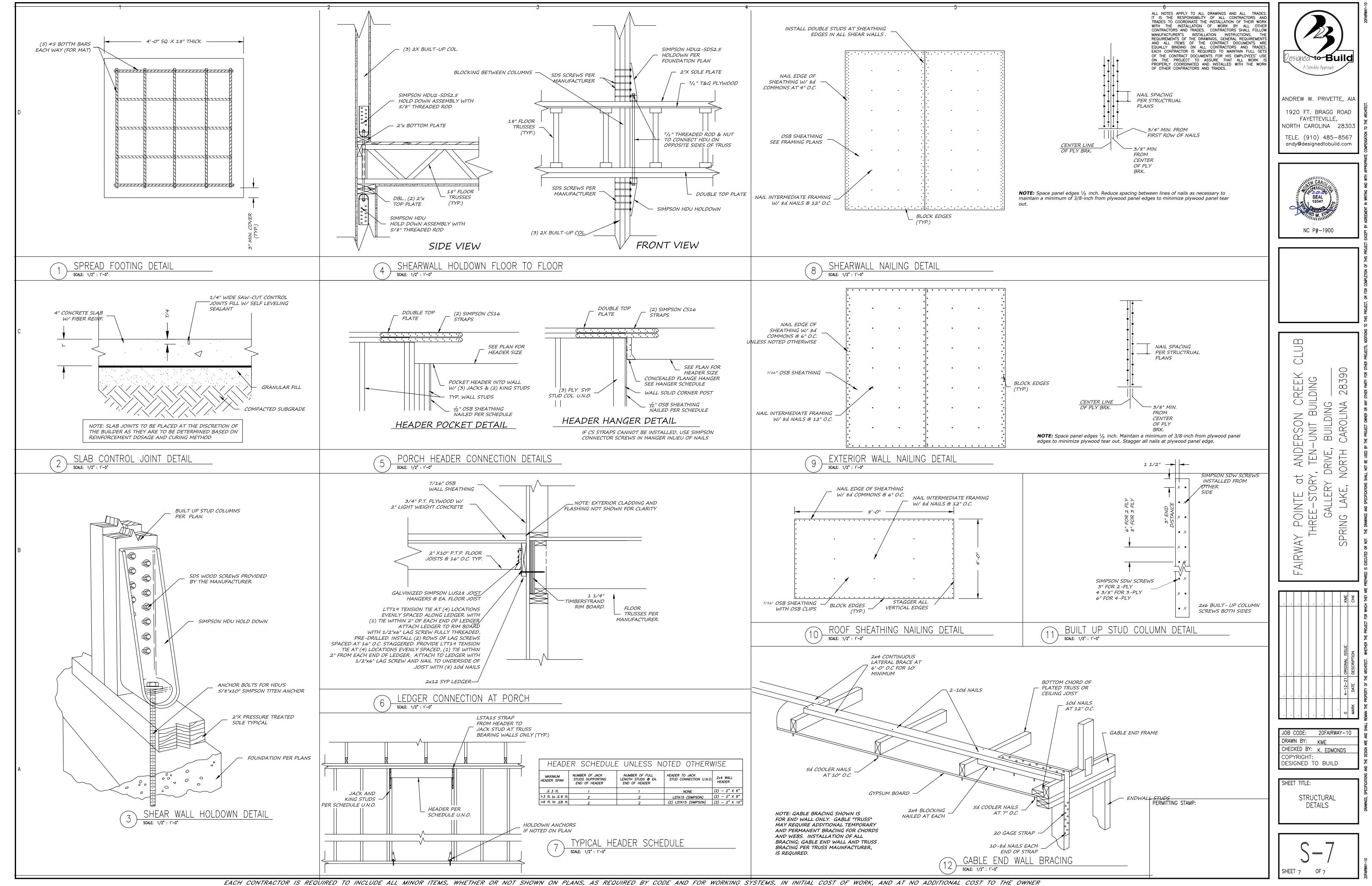


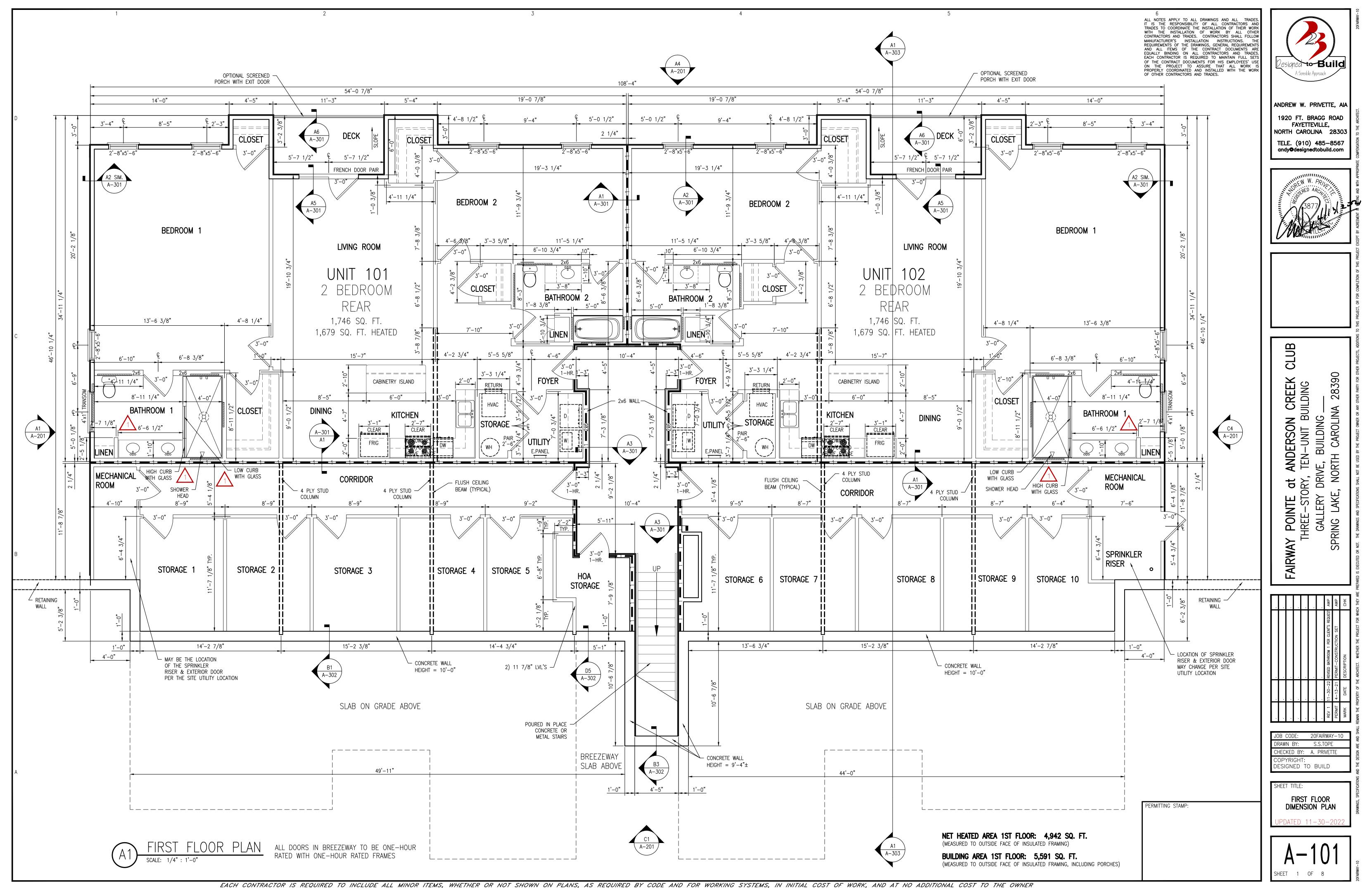


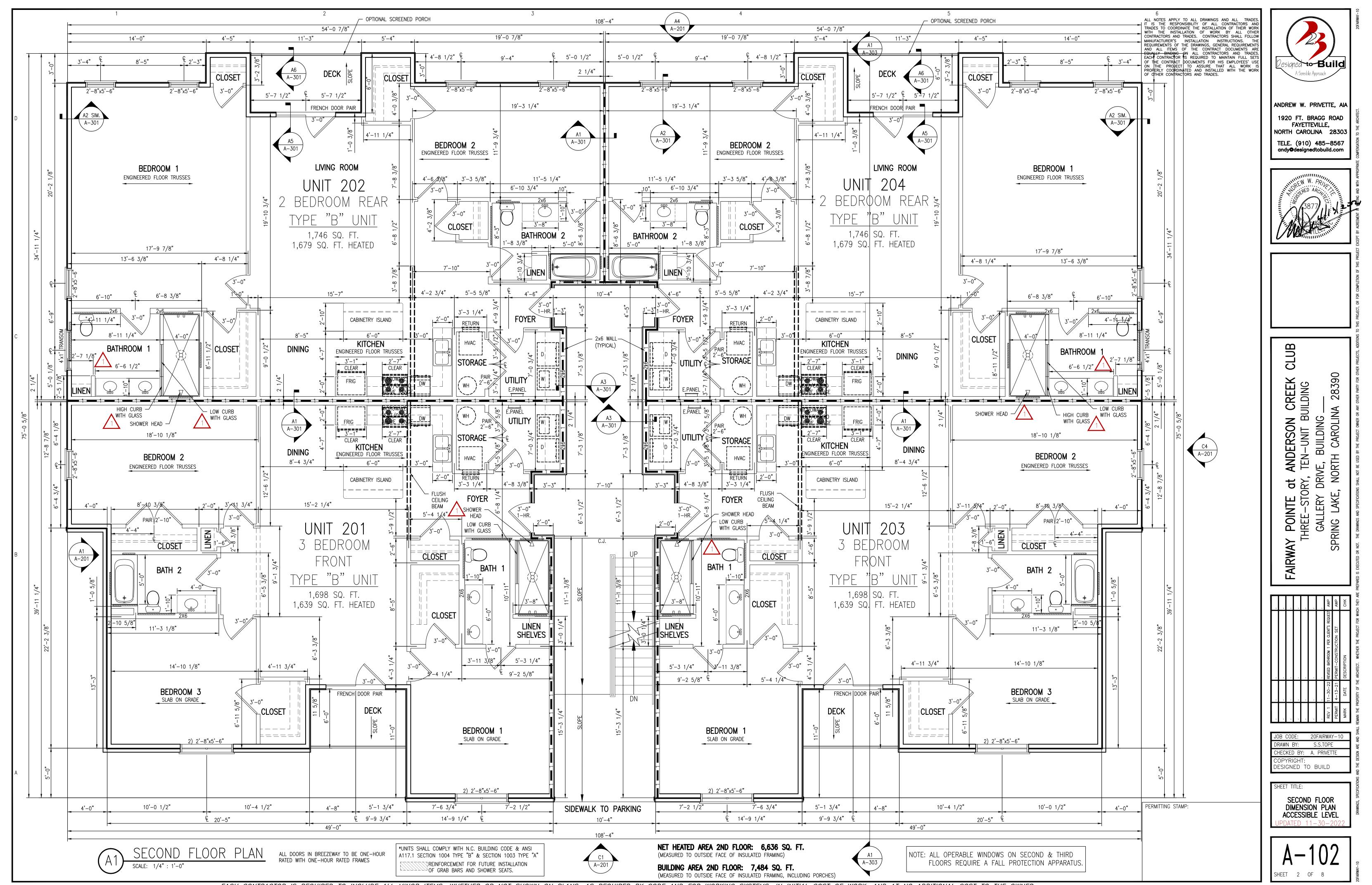


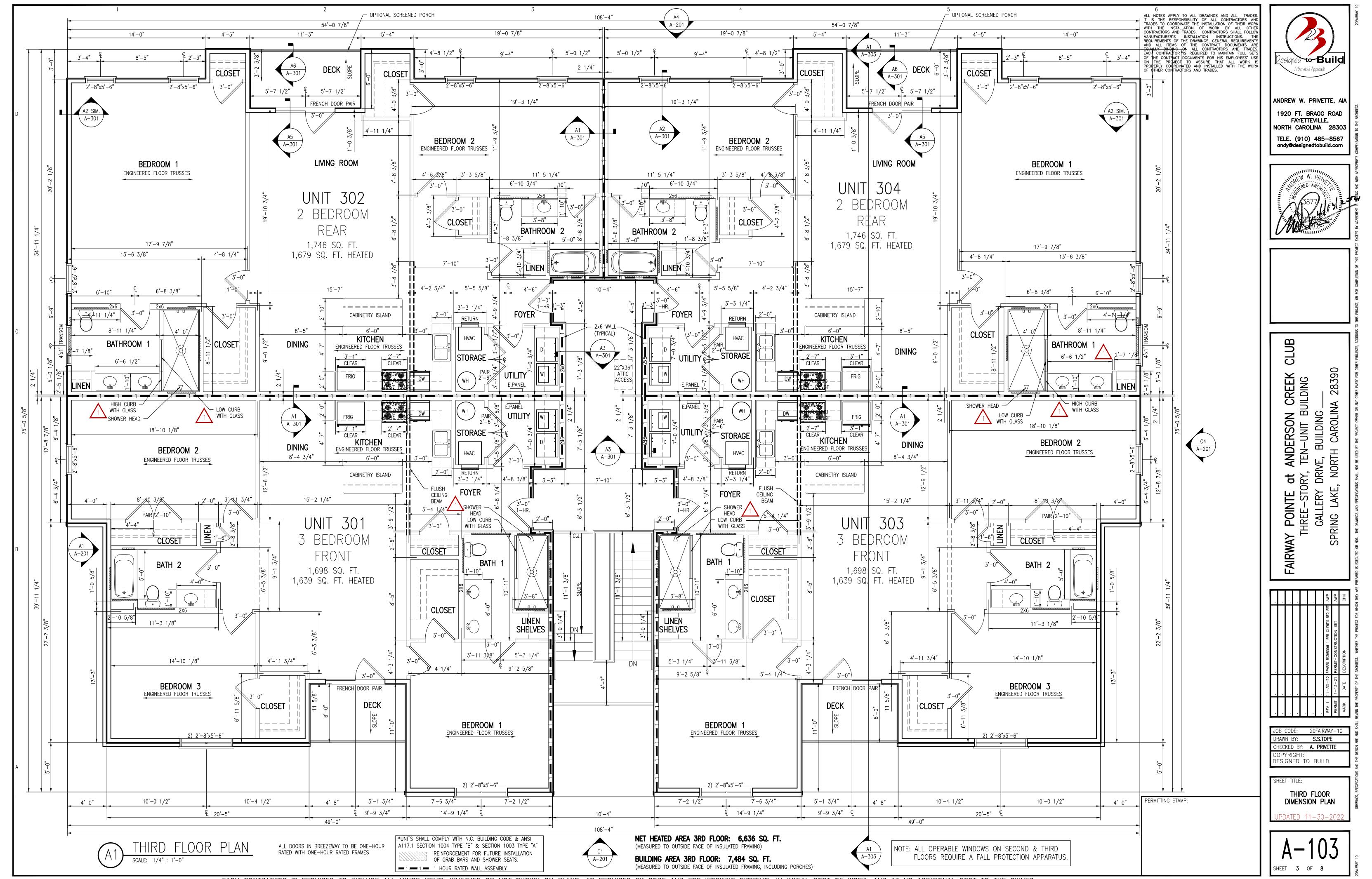


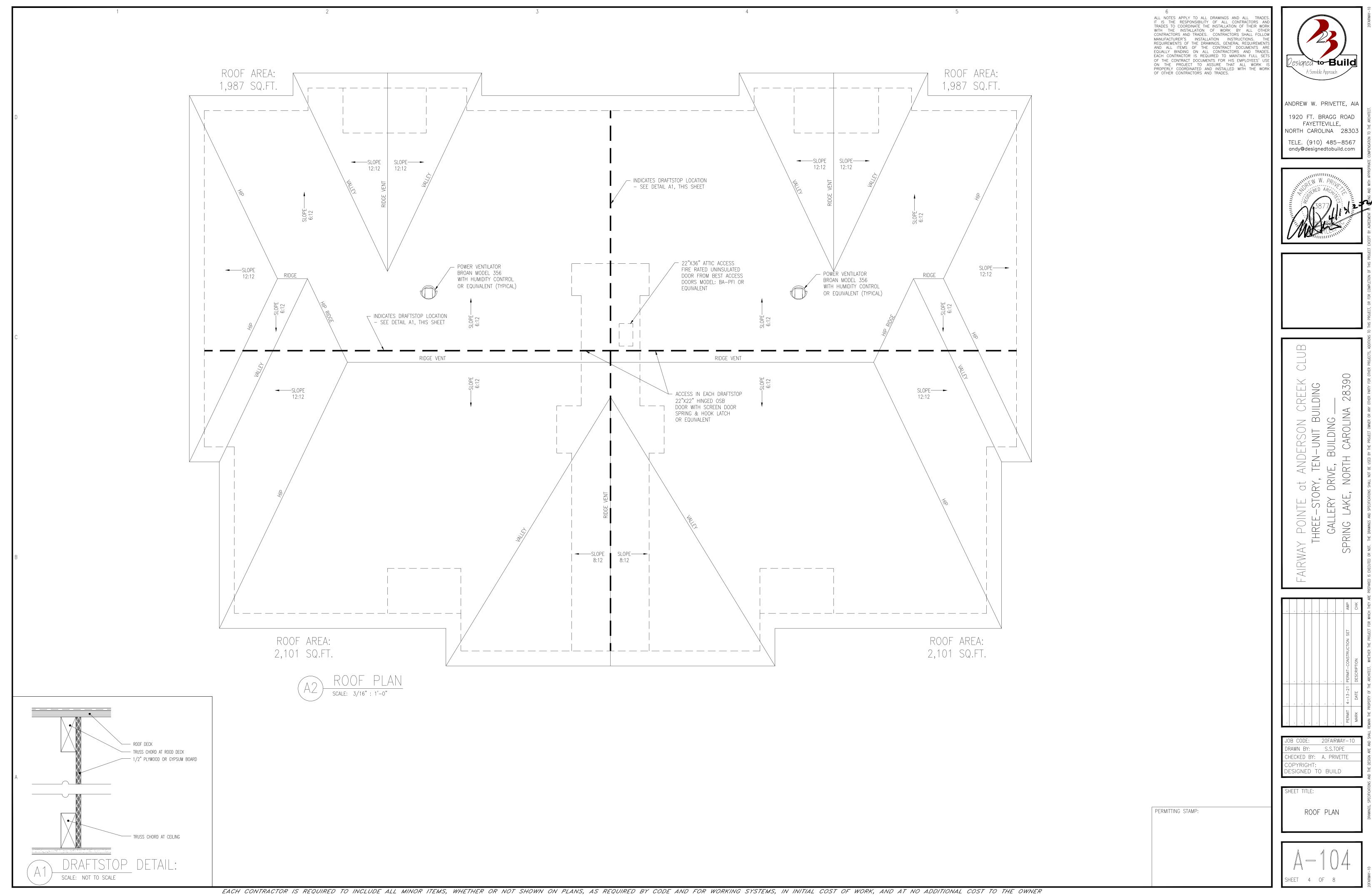






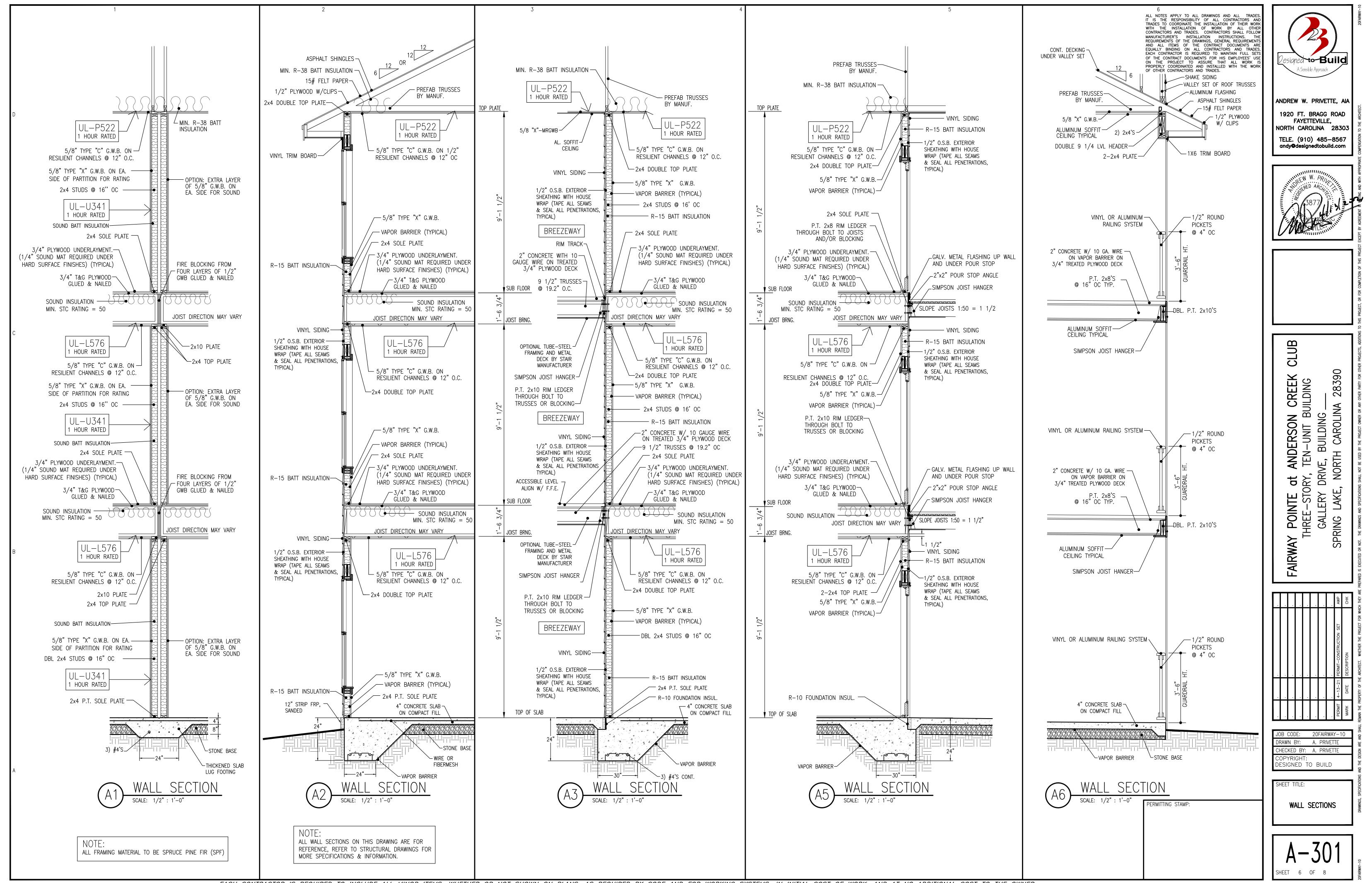


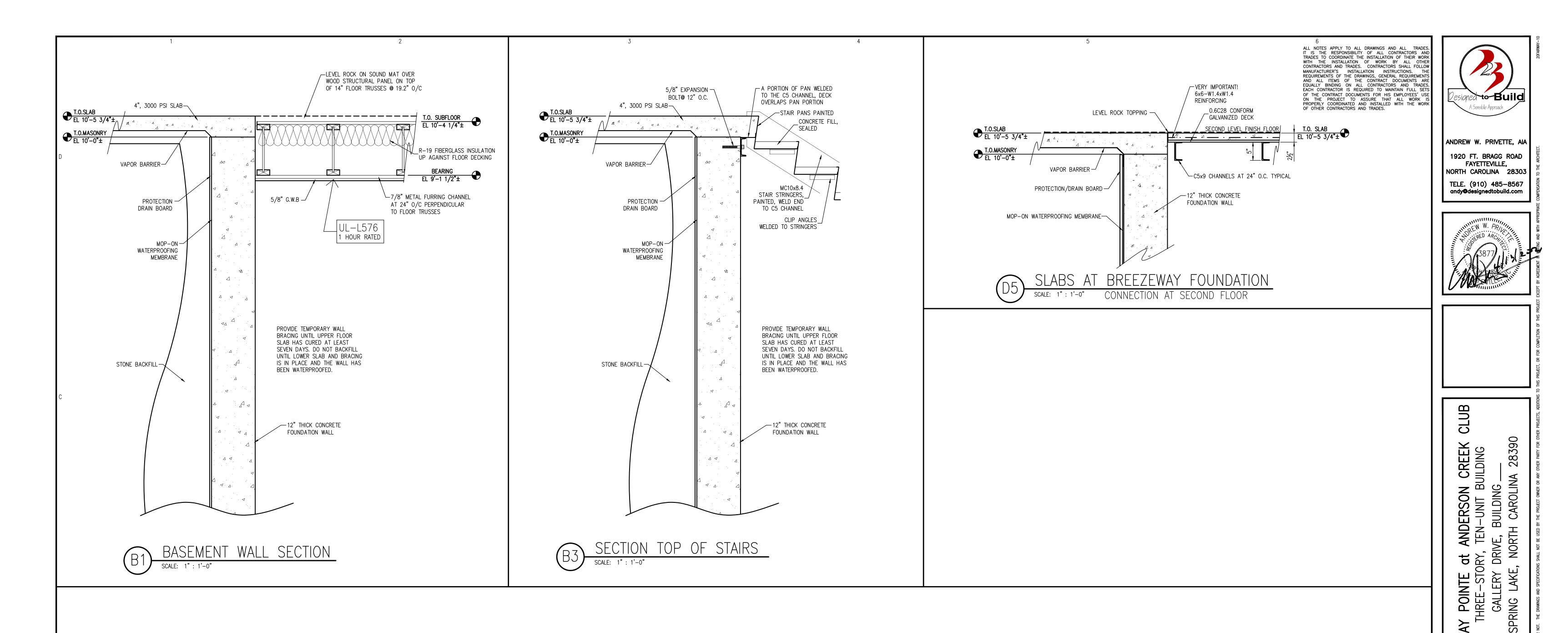






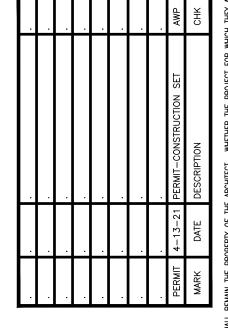






- 1. COORDINATE WITH CIVIL AND SITE DRAWINGS FOR FINAL GRADE NOTES AND RECOMMENDATIONS.
- 2. DESIGN LOADS SEE APPENDIX 'B' INFORMATION ON SHEET G-101
- 3. SEISMIC CONDITIONS SEE APPENDIX 'B' INFORMATION ON SHEET G-101
- 4. CONCRETE QUALITY TO MEET 3000 & 4000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS.
- 5. REINFORCING STEEL TO BE GRADE 60.
- 6. STRUCTURAL STEEL MINIMUM GRADE A50.
- 7. FOLLOW ALL LOCAL AND STATE CODES AND STANDARDS FOR THIS PARTICULAR BUILDING LOCATION.
- 8. TERMITE TREATMENT:
- A. ENGAGE A PROFESSIONAL PEST CONTROL OPERATOR, LICENSED IN ACCORDANCE WITH REGULATIONS OF GOVERNING AUTHORITIES FOR APPLICATION OF SOIL TREATMENT SOLUTION.
- B. 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.
- 9. SOIL BEARING CAPACITY ASSUMED AT 2,000 PSF.

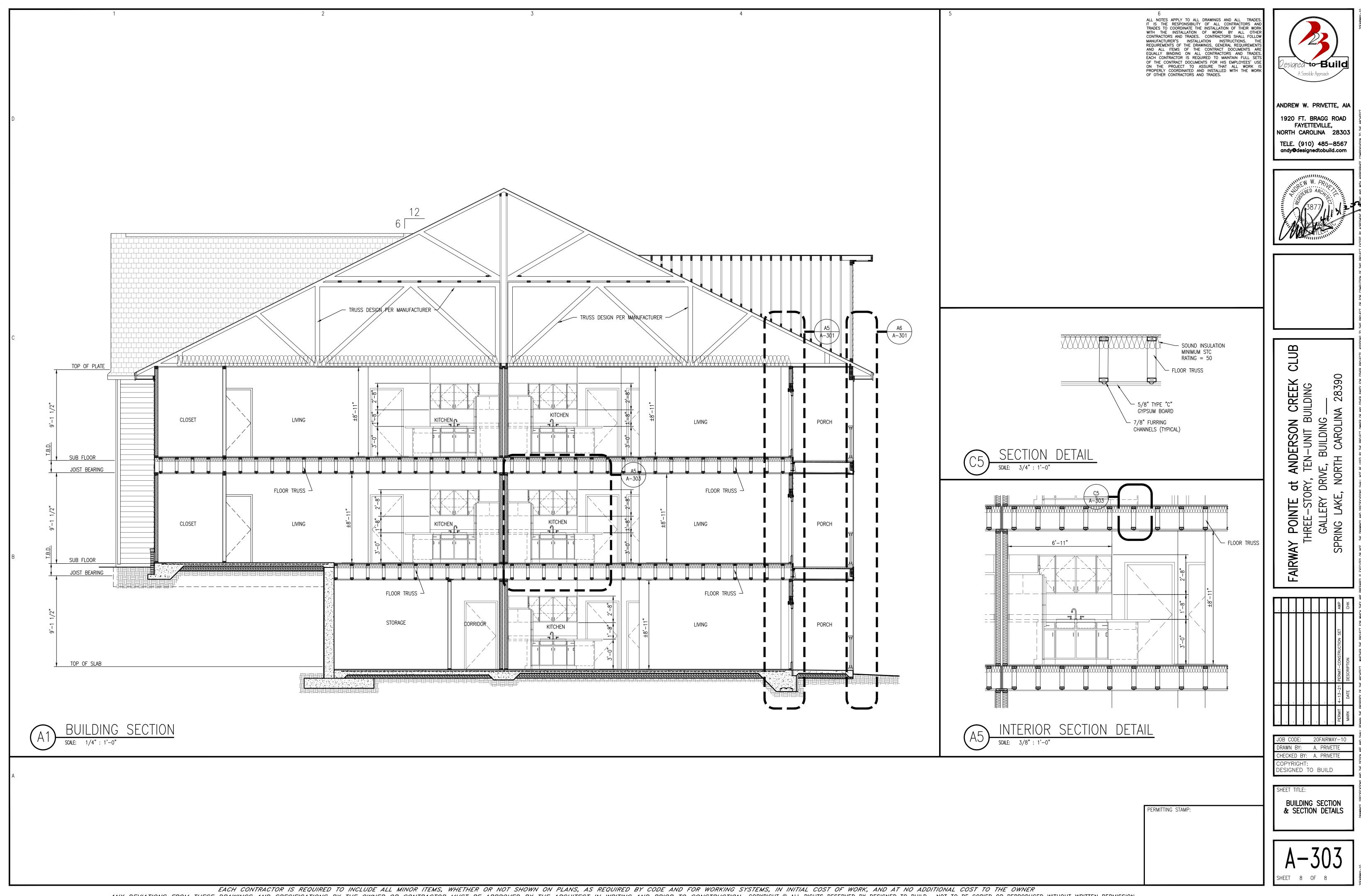
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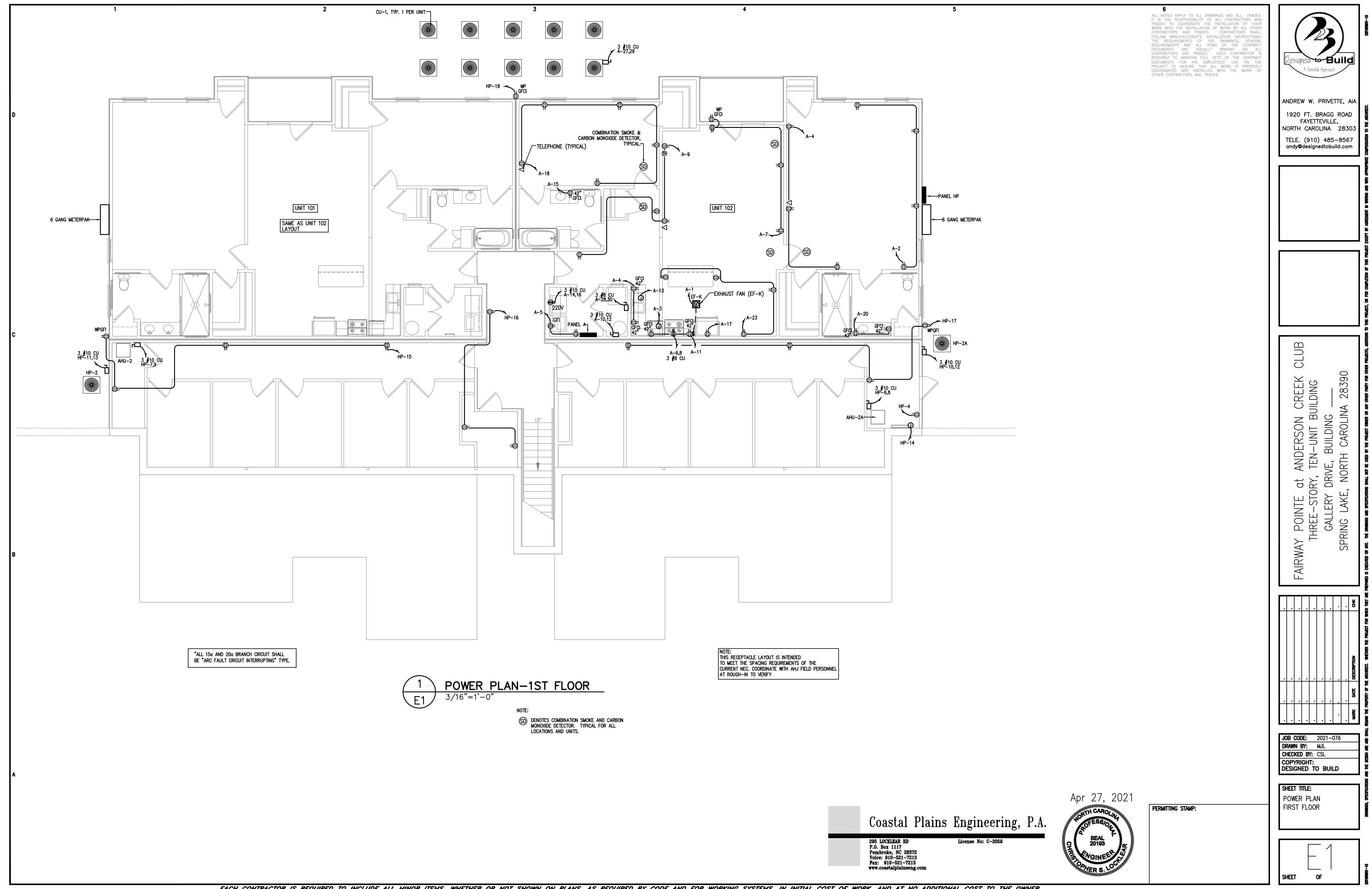


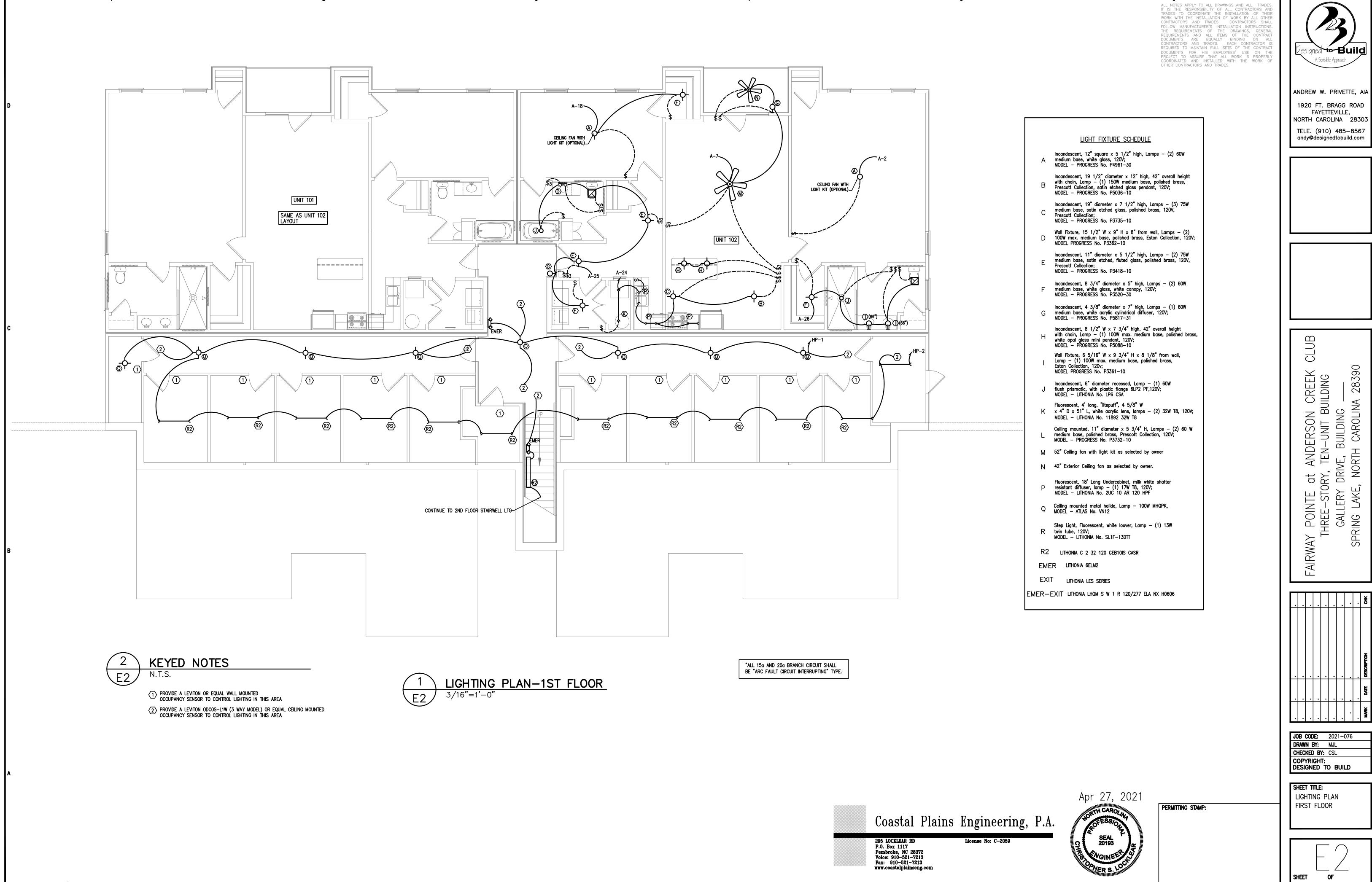
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> FOUNDATION SECTIONS & DETAILS

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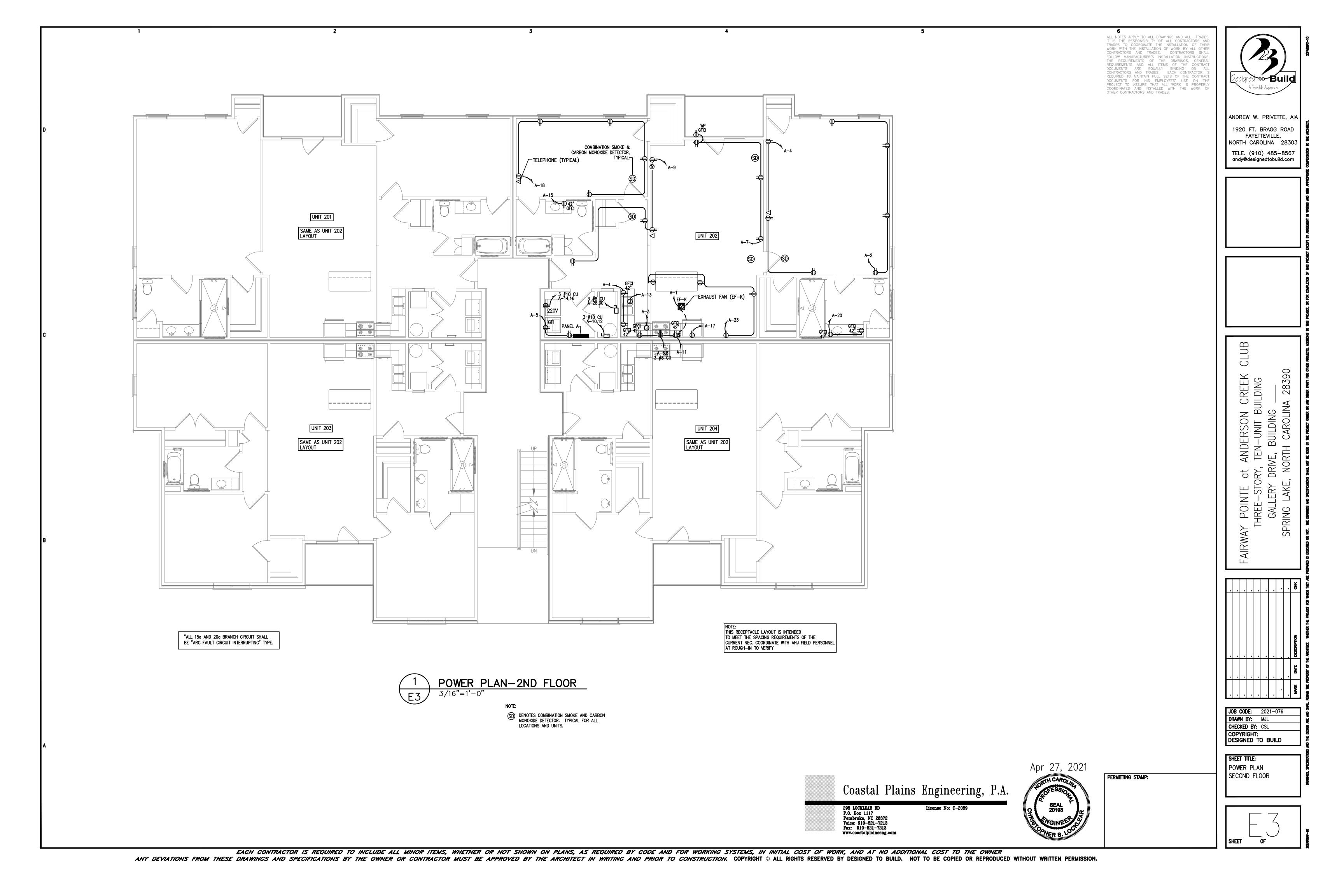


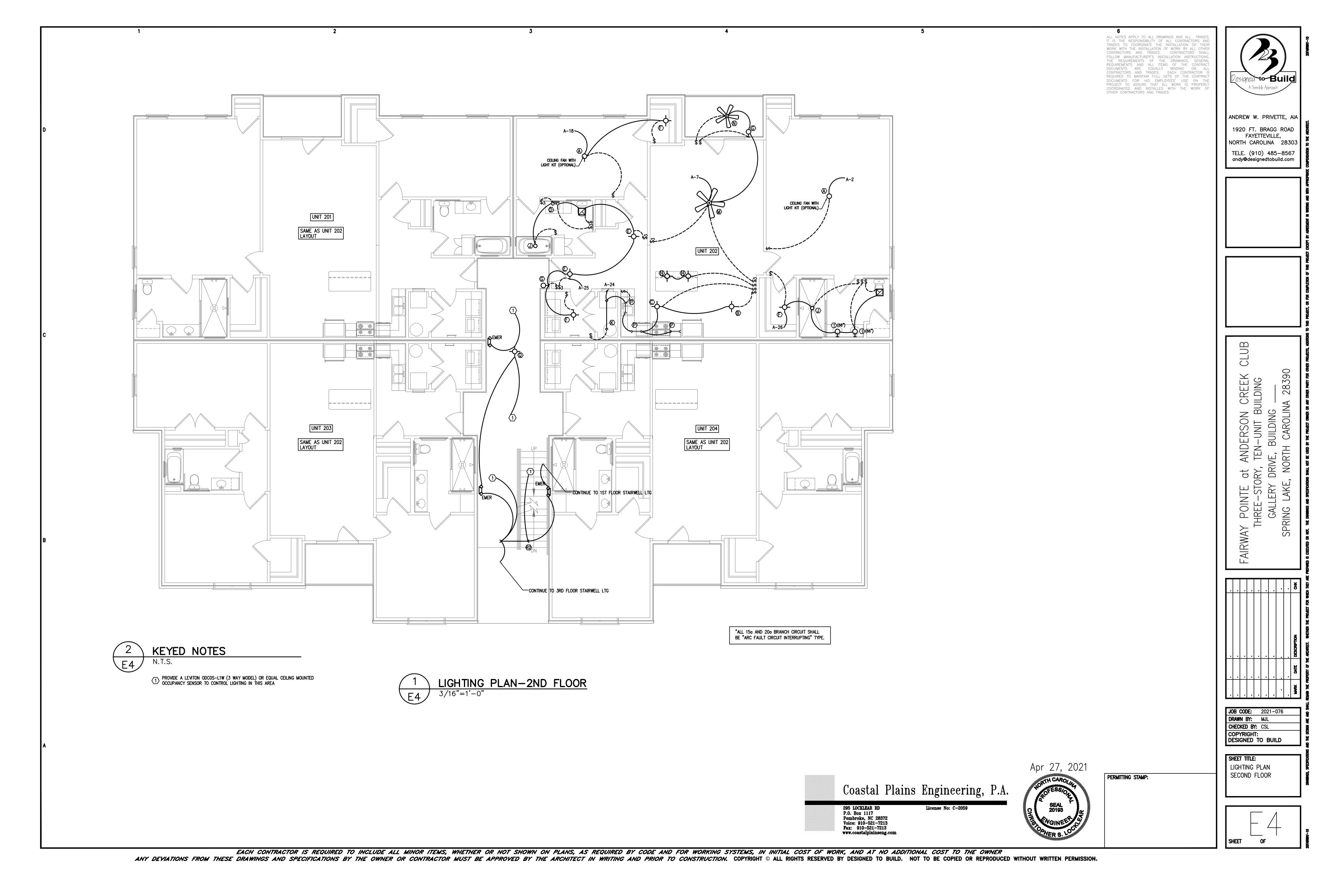


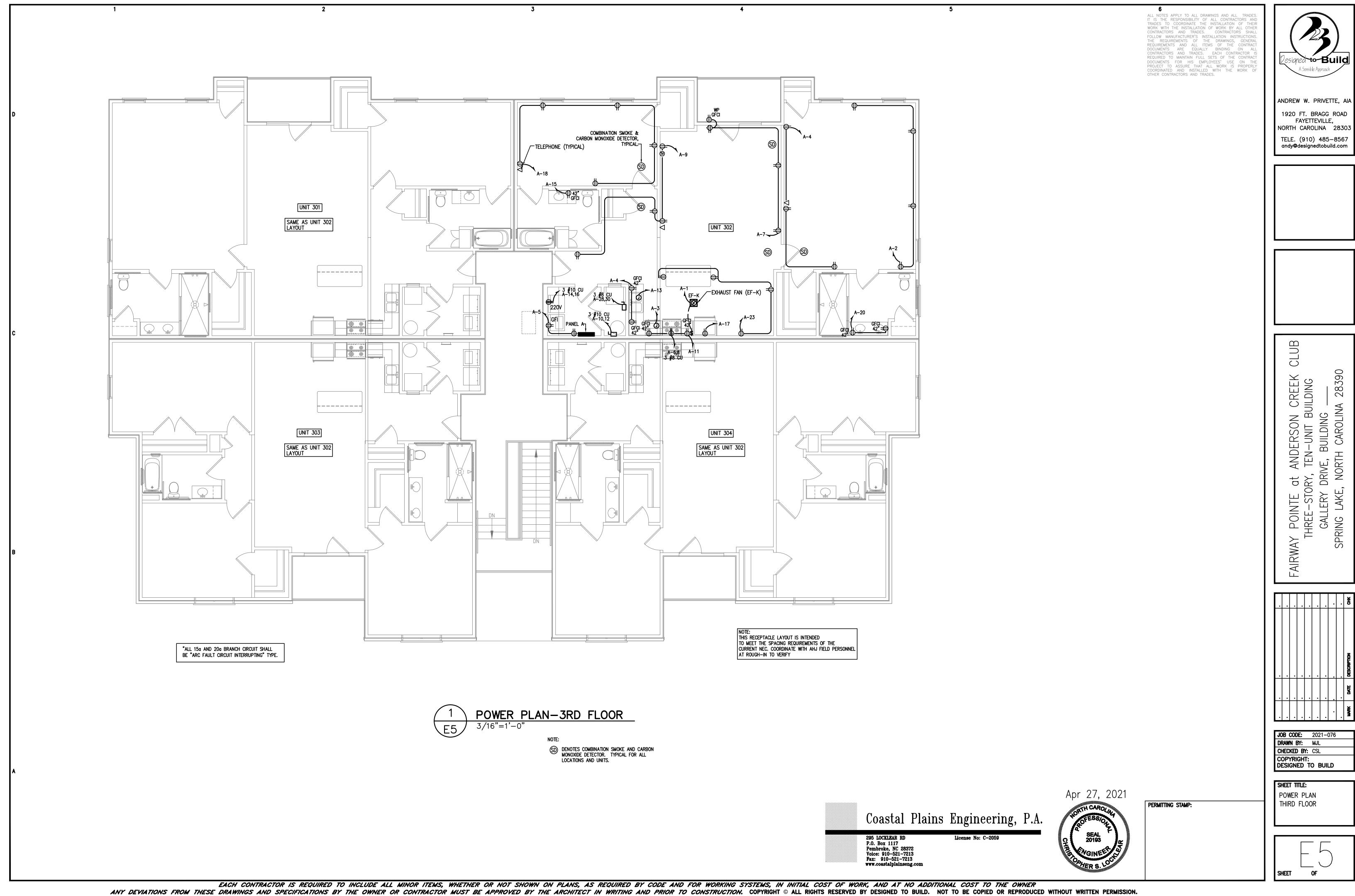


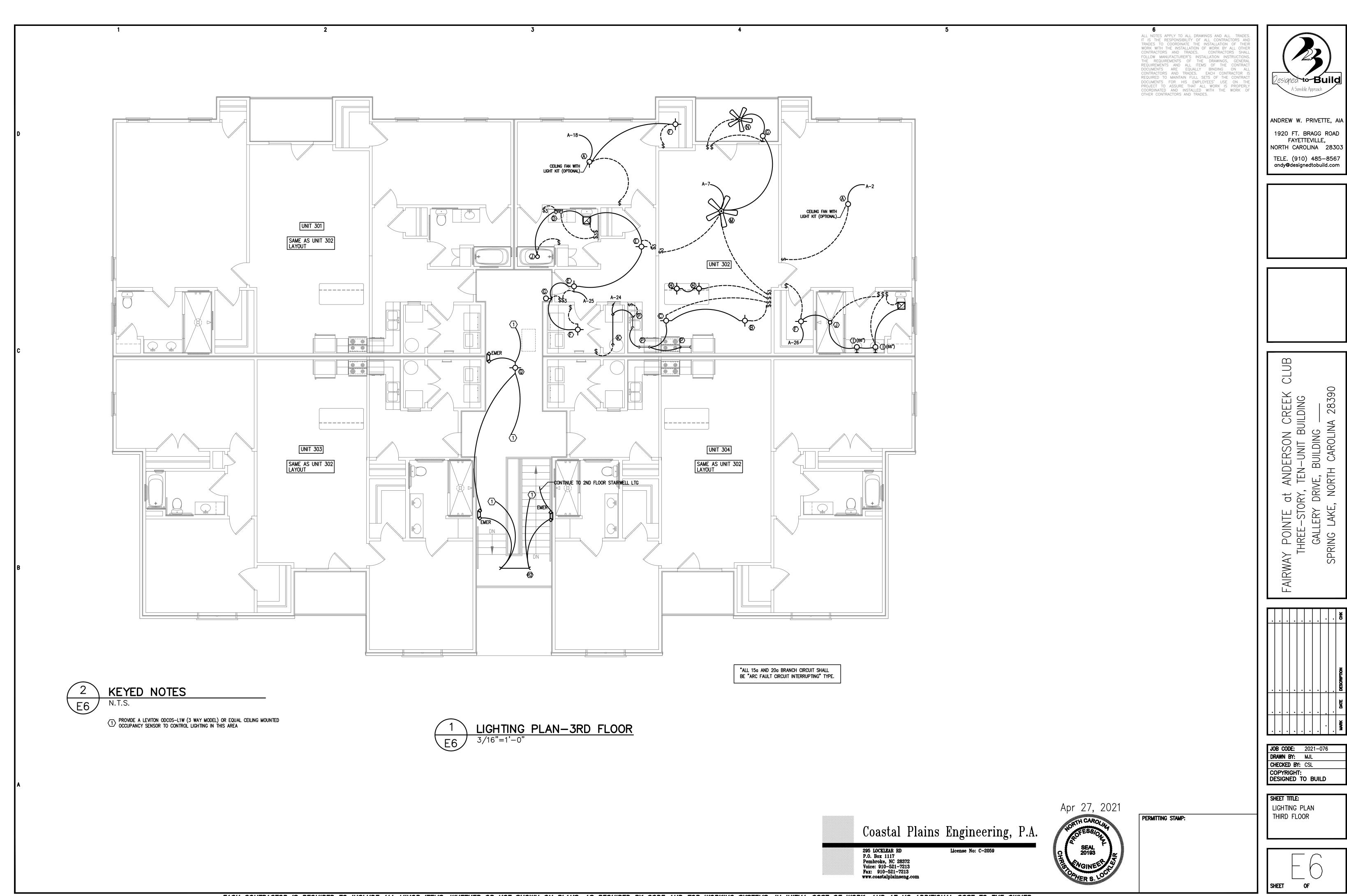
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EACH CONTRACTOR IS REQUIRED TO INCLUDE ALL MINOR ITEMS, WHETHER OR NOT SHOWN ON PLANS, AS REQUIRED BY CODE AND FOR WORKING SYSTEMS, IN INITIAL COST OF WORK, AND AT NO ADDITIONAL COST TO THE OWNER ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS 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.





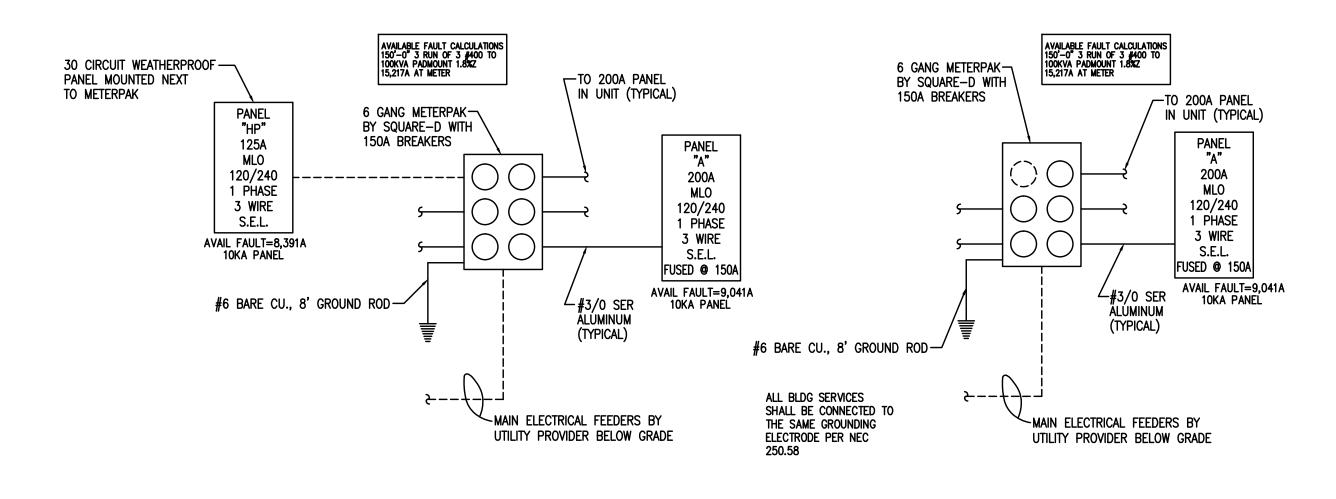




П	ACE	T	LOUT			KU	UND TE	_		NEUTRAL TERMINAL B		
	ASE DING	DESCRIPTION	CKT. BKR. TRIP	CKT. NO.	A	A	Ρ	CKT.	CKT. BKR. TRIP	DESCRIPTION		IASE DING
<u> </u>	В	5,4,4,4,5,4,4,6,5,4,5									Α	
_		EXHAUST HOOD/EF-K	20/1					2	20/1	REC & LTS — MASTER BEDROOM		₩
		JB — DISHWASHER	20/1	3			•	4	20/1	rec – Kitchen		╄
_		LAUNDRY RECEP.	20/1	5	•			6	50/2	RANGE	-	┷
	_	REC & LTS — LIVING ROOM	20/1	7			 	8	_			上
_		REC - LIVING ROOM & ENTRY	20/1	9	•			10	30/2	WATER HEATER	-	丄
	_	rec – Kitchen	20/1	11			 	12	_			
_		GARBAGE DISPOSER	20/1	13				14	30/2	DRYER	-	
	_	REC — BATHROOM	20/1	15			 	16	_			
-		REFRIGERATOR	20/1	17		-		18	20/1	REC & LTS - BEDROOM	-	
	_	REC & LTS - BEDROOM 2	20/1	19			 	20	20/1	REC — MASTER BATH		П
_		REC - GFI (WHIRLPOOL)	20/1	21		-		- 22	20/1	PHONE/CABLE BOX	_	
	_	REC - DINING	20/1	23			\	24	20/1	LTS — LAUNDRY & KITCHEN		
_		LTS - ENTRY/BATHROOM	20/1	25		-		26	20/1	LTS - MASTER BATH	_	
	_	HP-1	25/2	27				28	45/2	AHU-1		\top
_				29		-		30			_	\top
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									L TOTAL	\(\(\)		
		————— SUE	5-IUIAL	(VA)				50t	3-IUIAL	(VA) ————		
T	OTAL C	ONNECTED LOAD =		_	AMPS	=				TOTAL OF 42 SPACE	ES	

PANEL "HP" U.L. SERVICE ENTRANCE LABEL PHASE 1 WIRE 3 VOLTS 120/240 MAIN 125A MLO TYPE NQOD MOUNTING RECESSED ENCLOSER NEMA 1 SHORT CKT. RATING 10,000 RMS SYM.											
PHASE LOADING DESCRIPTION CKT. BKR. TRIP NO.				⊠ GRO A	RMINAL BAR NEUTRAL TERMINA CKT. CKT. DESCRIPTION TRIP RMINAL BAR DESCRIPTION			PHASE LOADING			
900	В	LTS- 1ST FLOOR COMMON	20/1	1			2	20/1	LTS - 1ST FLOOR STORAGE	904	В
900	392	LTS - STAIRWELL/2ND FLR/3RD FLR	20/1	3		1	4	20/1	FACU	904	180
100	392	SPRINKLER RM	20/1	5			$\frac{4}{6}$	20/1	AHU-2A	2880	100
100	2880	AHU-2	25/2	7			8	20/2	A110-2A	2000	2880
2880	2000	Allo Z	_	9		<u> </u>	10	20/2	HP-2A	1440	2000
2000	1440	HP-2	25/2	11			12	_	III ZA	1440	1440
1440	1440	111 2	_	13			14	20/1	WALL HEATER	1500	1770
1110	720	STORAGE RECEPT'S	20/1	15			16	20/1	CORRIDOR RECEPT'S	1000	540
720	720	STORAGE RECEPT'S	20/1	17			18	20/1	EXTERIOR RECEPT.	180	0.0
720	_	STOTAGE REGELTS	20/1	19		<u> </u>	20	20/1	EXTENSIV RESELT.	+ 100	
_			20/1	21			22	20/1		+ -	
	_		20/1	23		\downarrow	24	20/1		+	_
_			20/1	25			26	20/1		† _	
	_		20/1	27		↓	28	20/1			_
_			20/1	29			30	20/1		_	
TOTAL CONNECTED LOAD = 23416 AMPS = 96 TOTAL OF 30 SPACES											

apartment load calc's 8000 range 5000 dryer 29,416 va total other loads optional calc 10,000 va + (.4 x 19416) 17766 + (1.0 x 14160) = 31,926 va 31,926 / 240 = 133 A



ELEC. RISER DIAGRAM

ELECTRICAL SYMBOL LIST ★ EXIT LIGHT FIXTURE LIGHT FIXTURE INCADESCENT OR H.I.D. OH LIGHT FIXTURE WALL MOUNTED NL NIGHT LIGHT EMERGENCY LIGHT FLOURESCENT LIGHT FIXTURE DUPLEX RECEPTACLE (+18") GFI TYPE RECEPTACLE ISOLATED GROUND TYPE D.R. D.R. DUPLEX RECPTACLE (+0") CENTERLINE HEIGHT OF DEVICE BOX ABOVE FINISH FLOOR SW. WITH PILOT LIGHT S SINGLE POLE SWITCH (+42") § 3-WAY SW. W/ PILOT LIGHT(+42") S_3 3-WAY SWITCH (+42") S₄ 4-WAY SWITCH (+42") SPECIAL PURPOSE OUTLET S_K KEYED SINGLE POLE SWITCH (+42") SK KEYED THREE-WAY SWITCH Fig. FUSED DISCONNECT SWITCH ☐ N/F DISCONNECT SWITCH RT RAINTIGHT (NEMA 3R) (60/50/3) AMP SIZE/FUSE SIZE/POLES DUPLEX RECEPT. FLOOR MTD. S
 MANUAL STARTER SWITCH MANUAL STARTER SWITCH W/ PILOT LIGHT R RELAY D DIMMER SWITCH PHOTOCONTROL PUSHBUTTON OR CONTROL STATION ☐ TELEPHONE O.B. (3/4" C. TO CEILING SPACE) O.B. OUTLET BOX ■ DATA O.B. (3/4" C. TO CEILING SPACE) ◀ TELEPHONE & DATA O.B. (3/4" C. TO CEILING SPACE) PLAN NOTE SYMBOL WP WEATHERPROOF A.F.F. ABOVE FINISH FLR. C/B CIRCUIT BREAKER CKT. CIRCUIT C. CONDUIT — CONCEALED CONDUIT (2#12 AWG AND APPROVED GROUND MINIMUM - TYPICAL) --- CONDUIT BELOW FLOOR OR GRADE ---- CONDUIT EXPOSED HOMERUN: NUMBER OF WIRES, PANEL DESIGNATION, CIRCUIT NUMBERS MAIN DISTRIBUTION PANEL BRANCH CIRCUIT PANELBOARD ♦ CATV OUTLET QUAD RECEPTACLE ALARM OUTLET BOX (3/4" CONDUIT TO CEILING SPACE)

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

WIRE AND CABLE SHALL BE INSULATED, TYPE THWN OR THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED.

EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENCASEMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2- INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUIDTIGHT OR WATERTIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATERTIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER.

ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF



Coastal Plains Engineering, P.A.

P.O. Box 1117 Pembroke, NC 28372 Voice: 910-521-7213 Fax: 910-521-7213

PERMITTING STAMP:

ANDREW W. PRIVETTE,

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AN TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHE CONTRACTORS AND TRADES. CONTRACTORS SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCT

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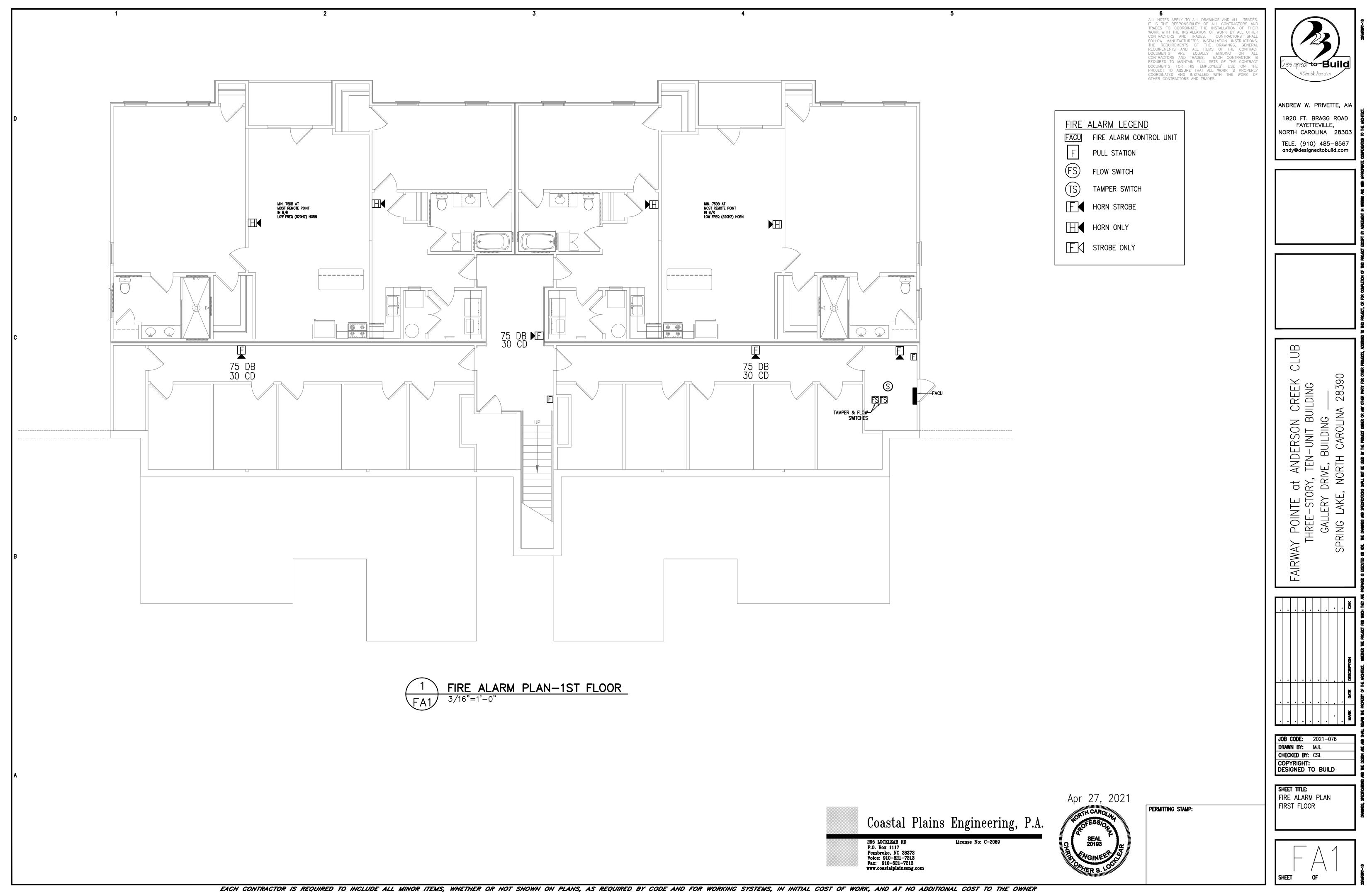
1920 FT. BRAGG ROAD FAYETTEVILLE, NORTH CAROLINA 28303 TELE. (910) 485-8567 andy@designedtobuild.com

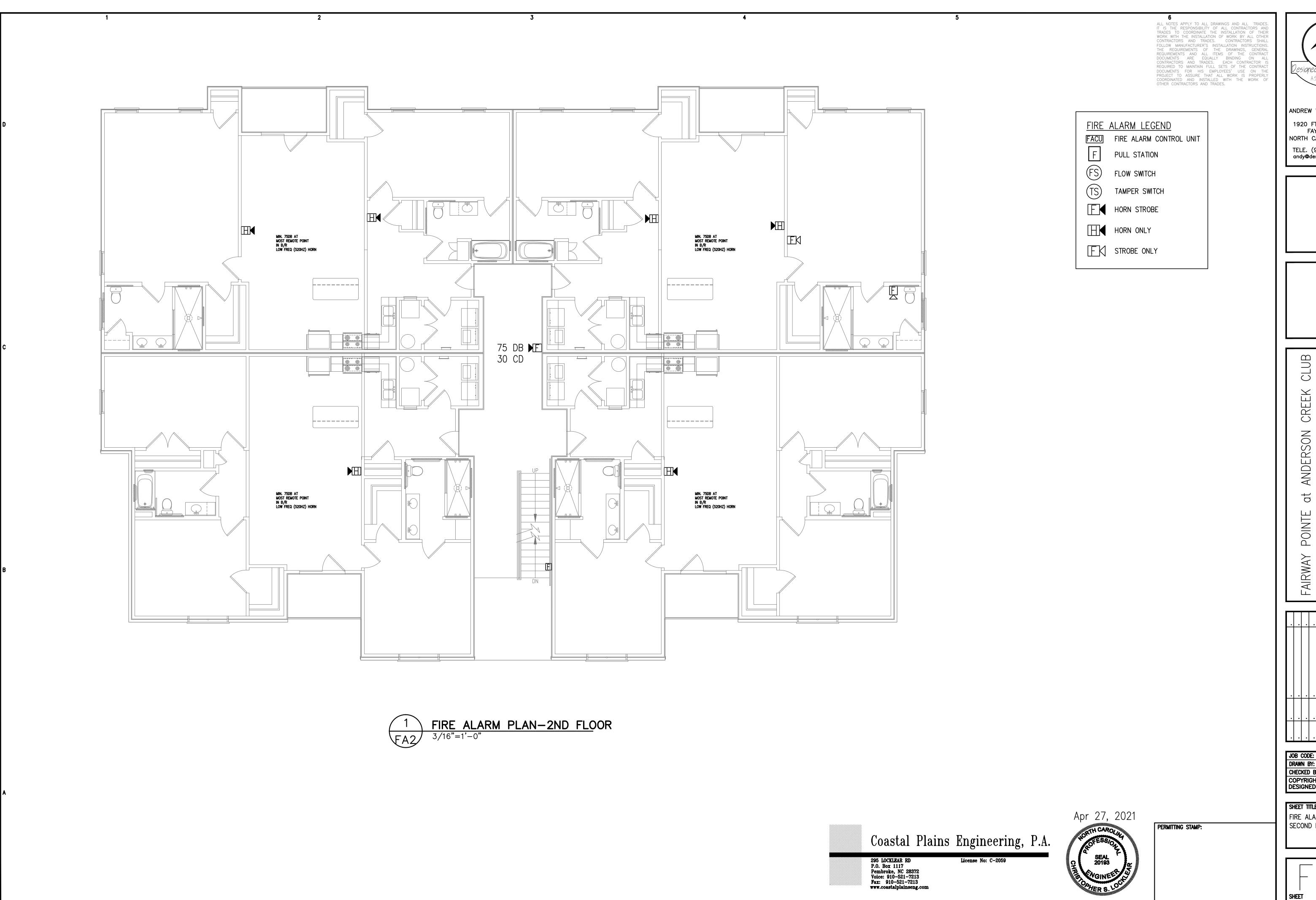
2839

ANDERSON CREEK TEN-UNIT BUILDING POINTE at HREE-STORY, GALLERY DRI SPRING AIRWAY

JOB CODE: 2021–076 DRAWN BY: MJL CHECKED BY: CSL COPYRIGHT: DESIGNED TO BUILD

SHEET TITLE: ELECTRICAL NOTES & DETAILS



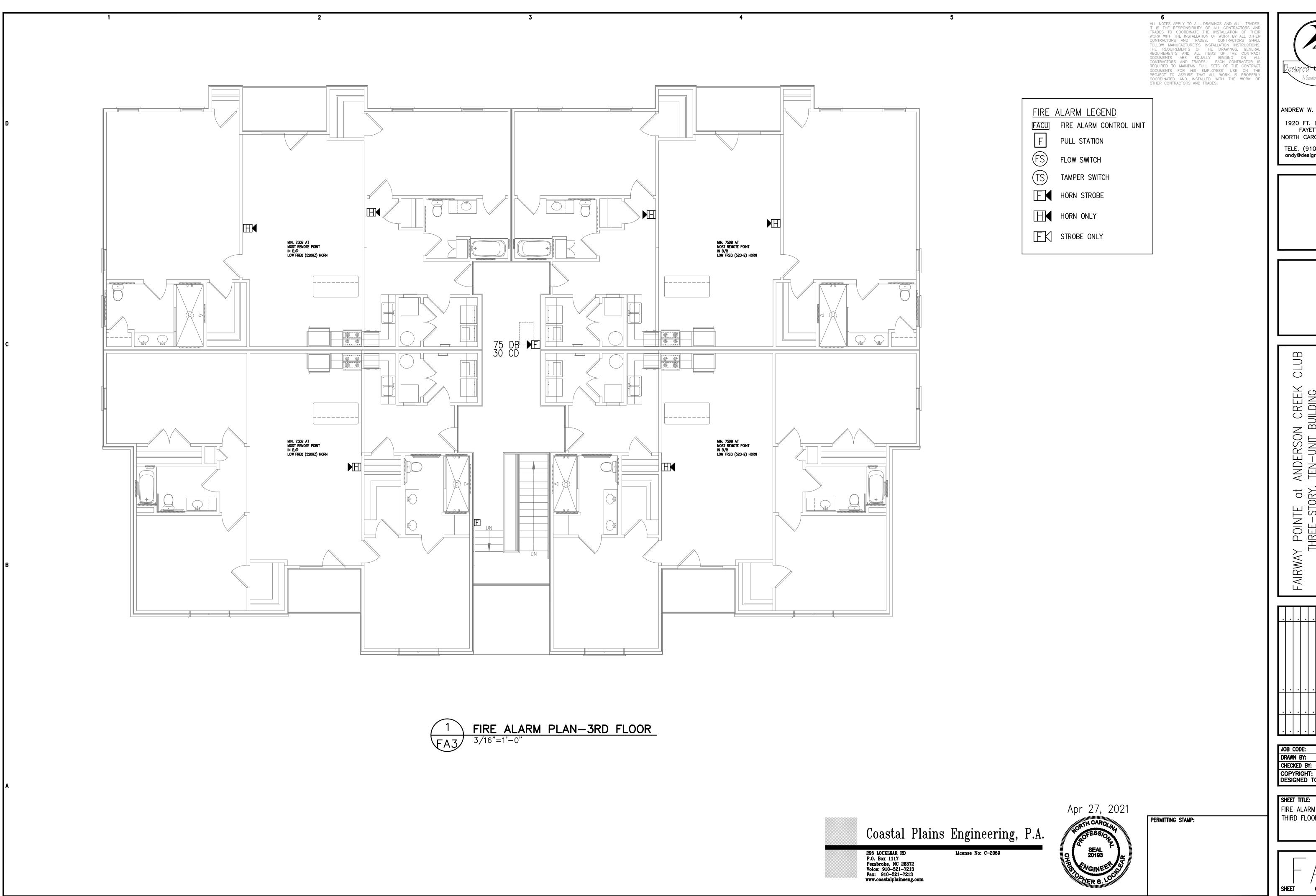


ANDREW W. PRIVETTE, 1920 FT. BRAGG ROAD FAYETTEVILLE, NORTH CAROLINA 28303 TELE. (910) 485-8567 andy@designedtobuild.com

AY POINTE at ANDERSON CREEK C THREE-STORY, TEN-UNIT BUILDING GALLERY DRIVE, BUILDING ____ SPRING LAKE, NORTH CAROLINA 28390

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FIRE ALARM PLAN SECOND FLOOR



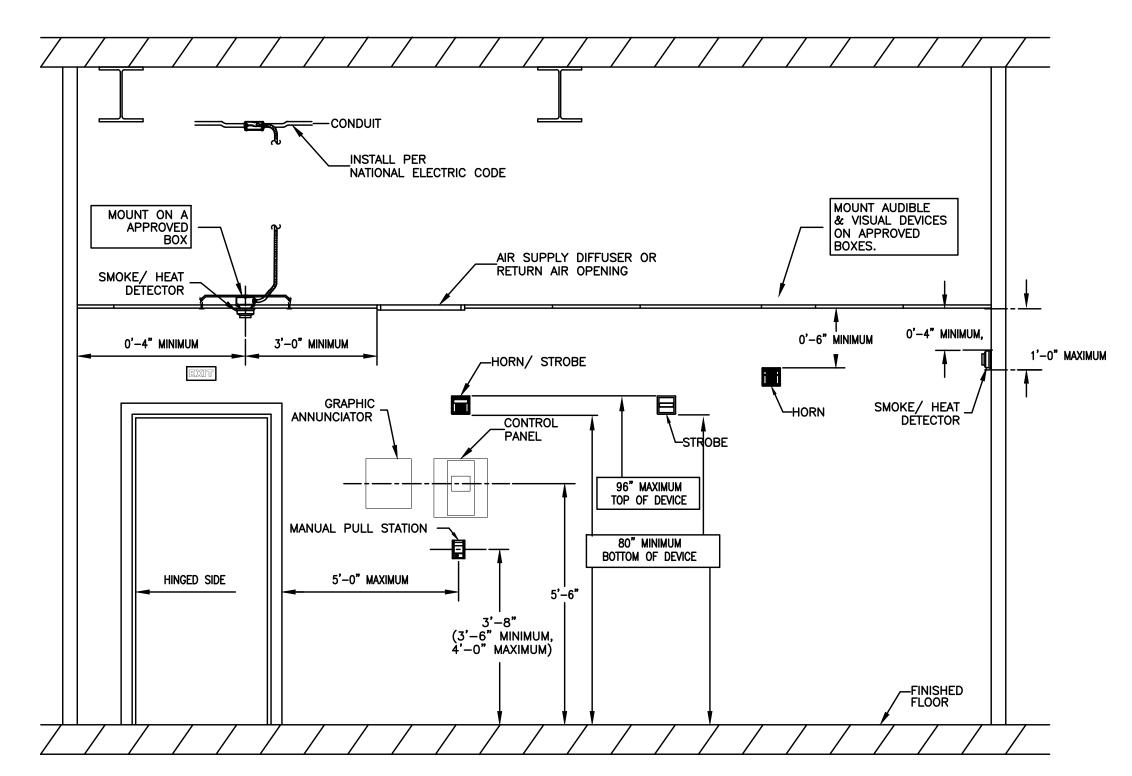
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THREE-STORY, TEN-UNIT BUILDING
GALLERY DRIVE, BUILDING
SPRING LAKE, NORTH CAROLINA 28390

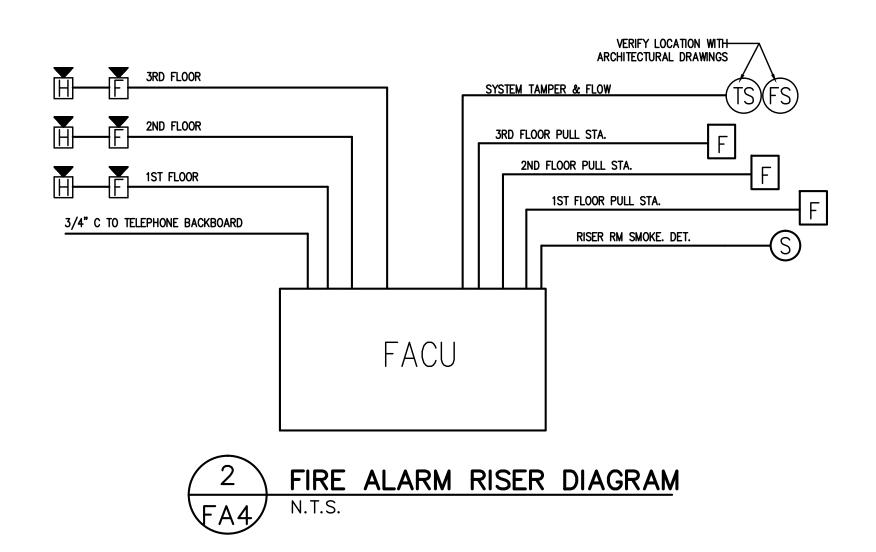
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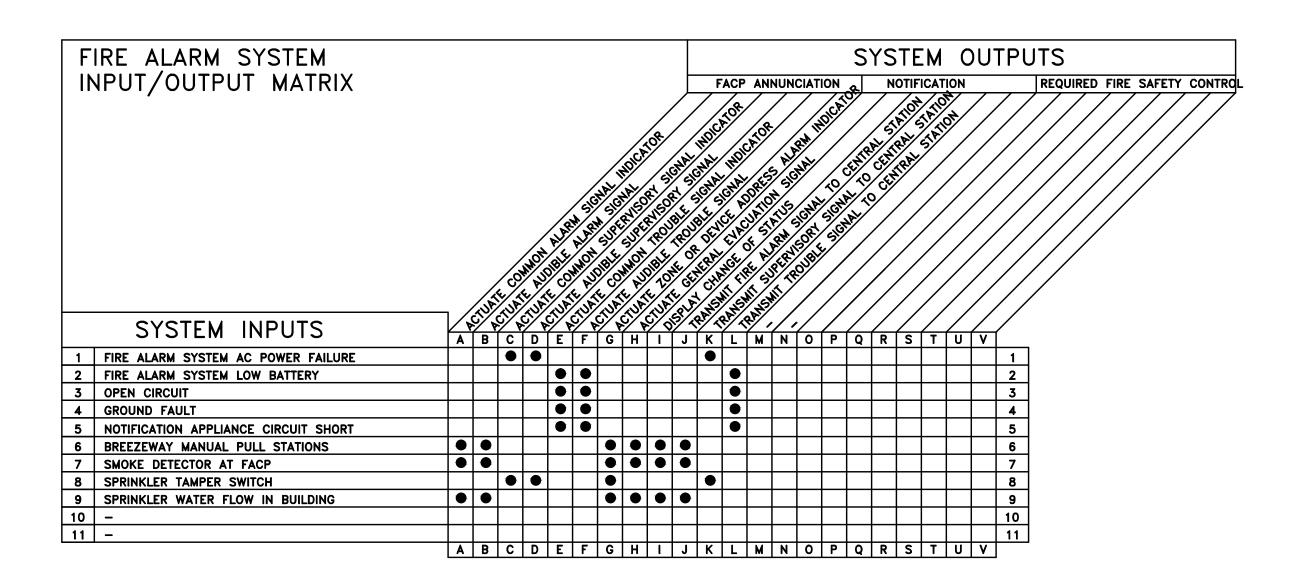
FIRE ALARM PLAN THIRD FLOOR

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



FIRE ALARM DEVICE MOUNTING HEIGHTS





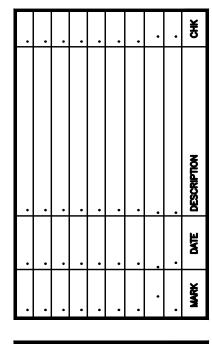
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CLUB

ANDERSON CREEK TEN-UNIT BUILDING Y POINTE at AI THREE—STORY, T GALLERY DRIVE



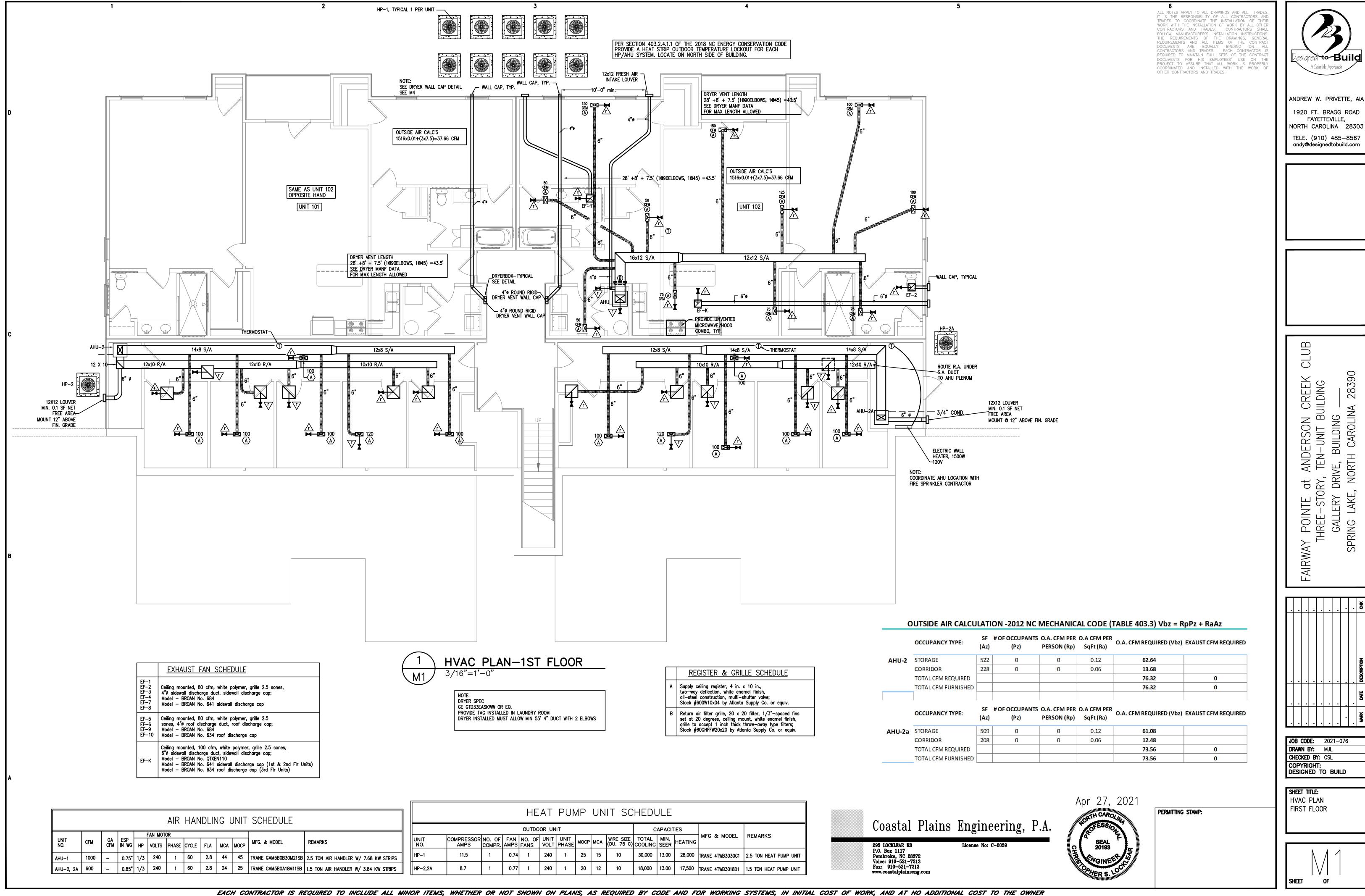
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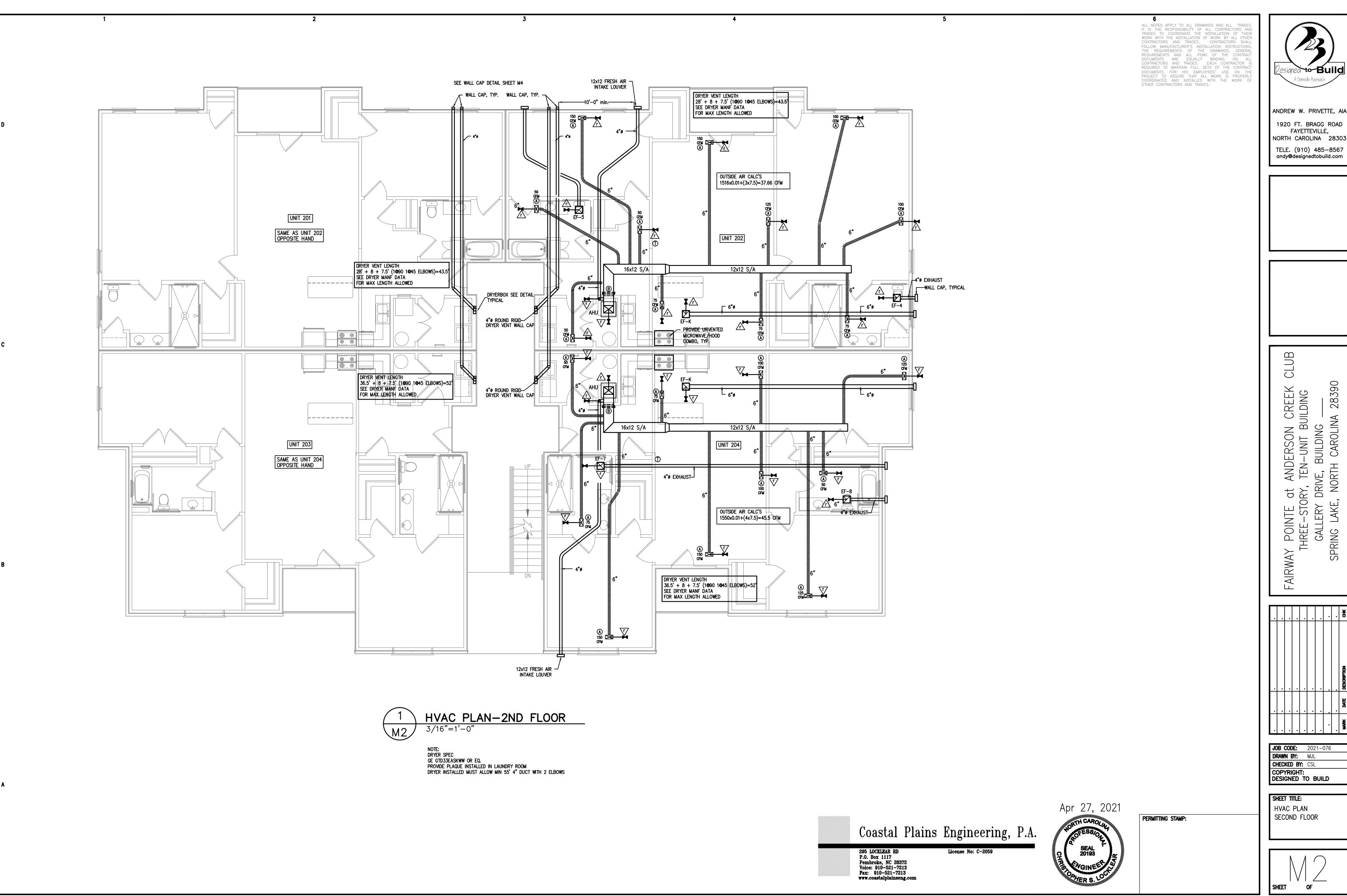
FIRE ALARM DETAILS

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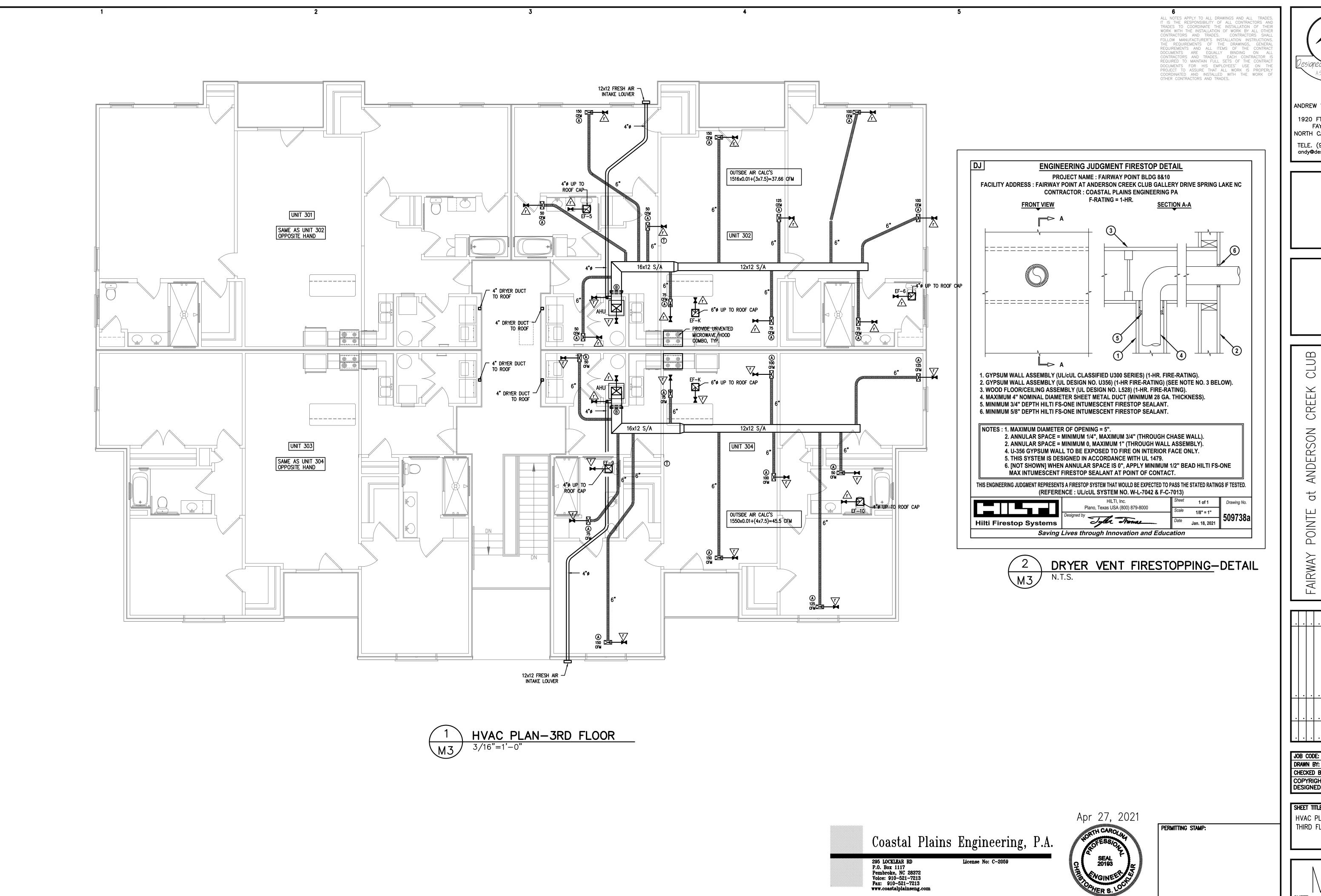
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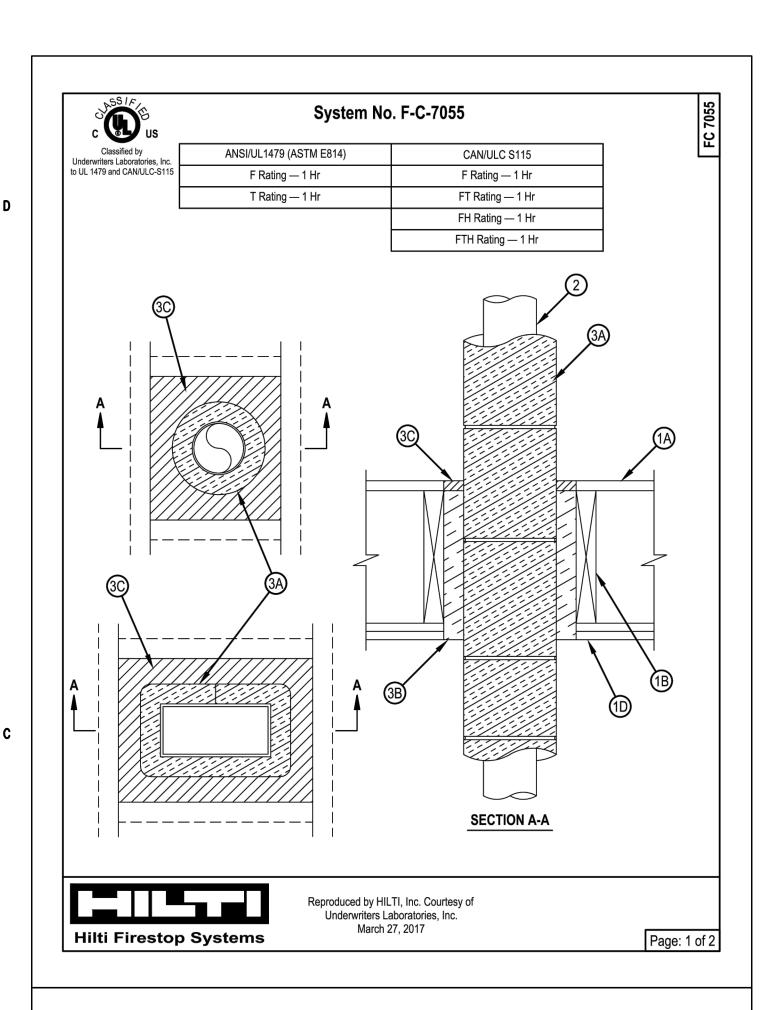


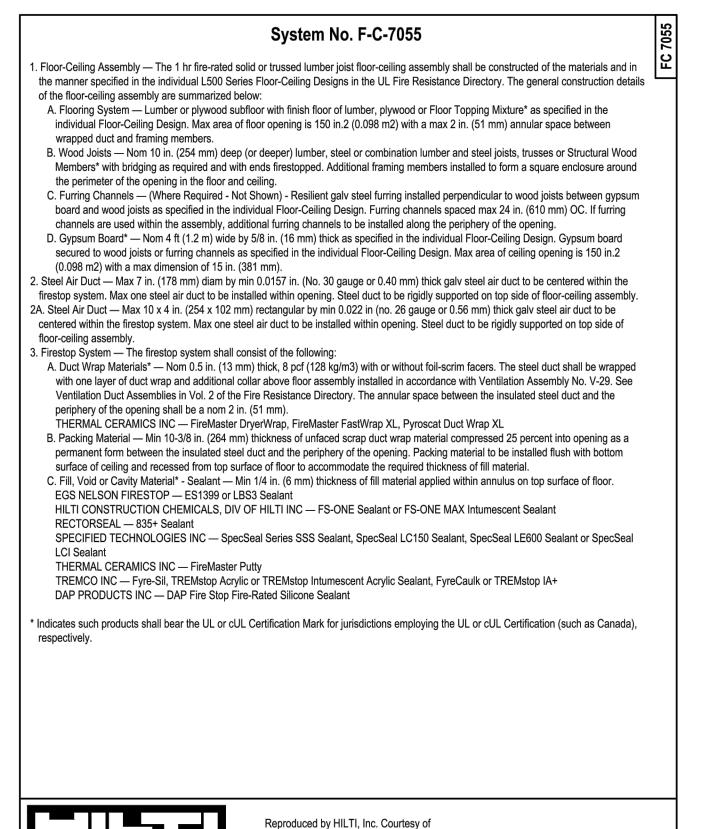
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HVAC PLAN THIRD FLOOR



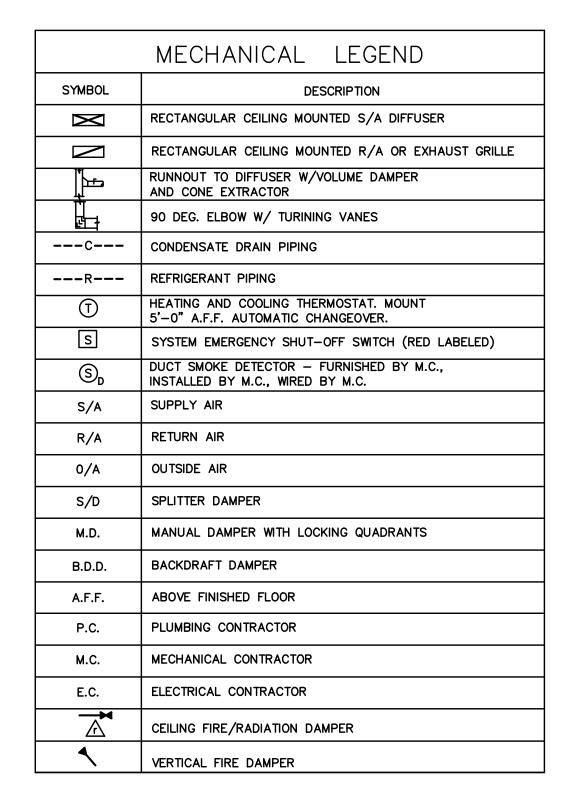


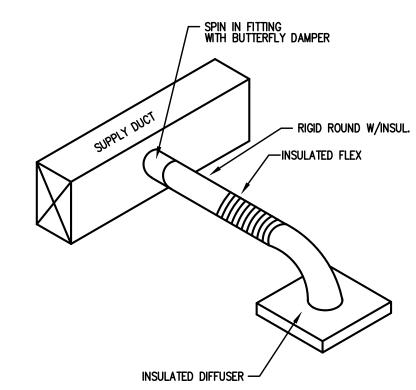
Underwriters Laboratories, Inc.

March 27, 2017

Page: 2 of 2

Hilti Firestop Systems





5 DIFFUSER TAKE-OFF DETAIL N.T.S.

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 WRED 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.

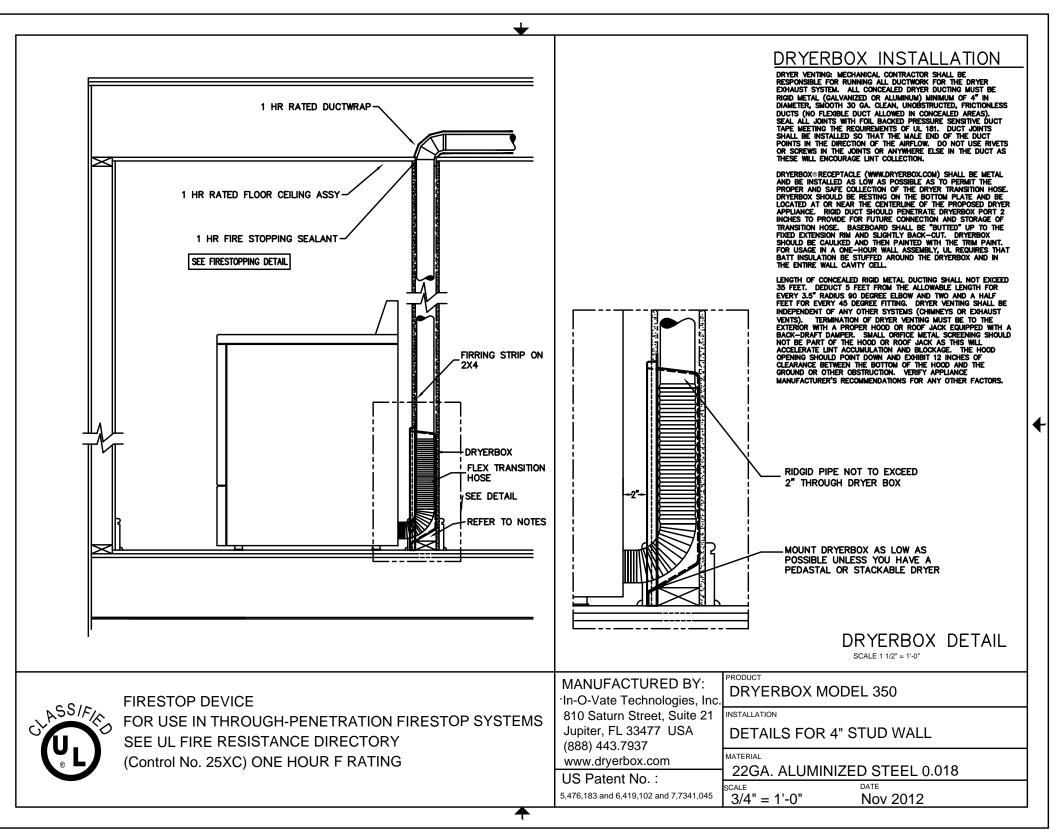
MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

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.

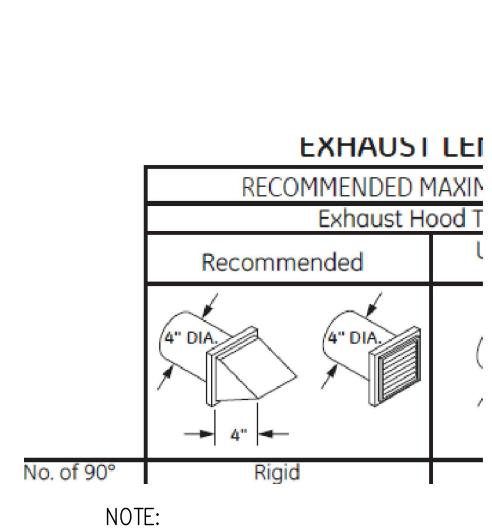
ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

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









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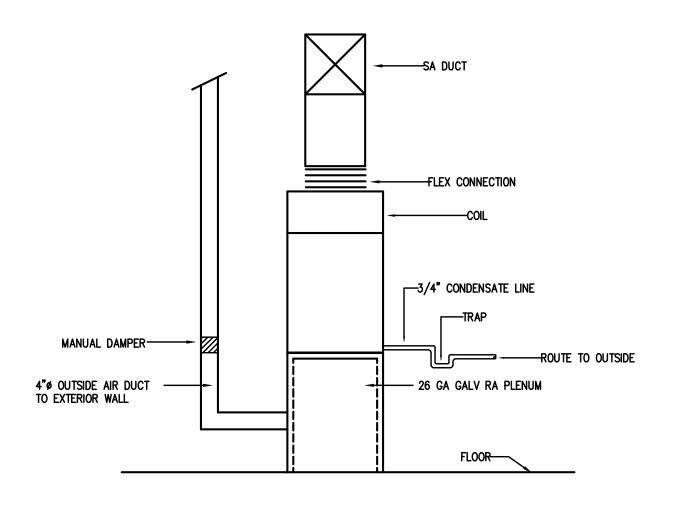
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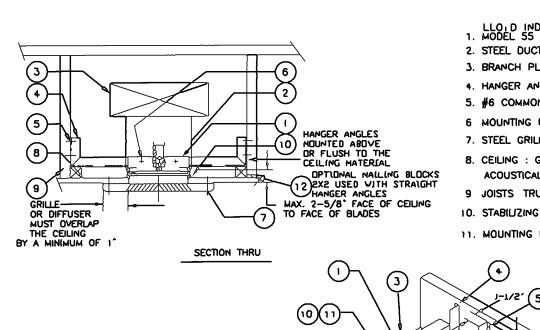
DOCUMENTS FOR HIS EMPLOYEES' USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY

COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

NOTE:
PROVIDE STYLE OF WALL
CAP SHOWN ABOVE







LLOID INDUSTRILS INC OR EQUAL

1. MODEL 55 CRD (ROUND) CEILING RADIATION DAMP

2. STEEL DUCT DROP (LESS #3 PLENUM PERMITTED)

3. BRANCH PLENUM. OR PLENUM BOOT

4. HANGER ANGLES (2) 1-1/2 X 1-1/2 X 16 GAUGE

5. #6 COMMON NAILS OR #8 X 1-1/4 SCREWS

6 MOUNTING FASTENERS (BOLTS, SCREWS, RIVETS, WELDS

7. STEEL GRILLE, DIFFUSER OR DROP DUCTING

8. CEILING: GYPSUM WALLBOARD

8. CEILING: GYPSUM WALLBOARD

S ACOUSTICAL TILE, OR ACOUSTICAL PANEL (LAY-IN)

9 JOISTS TRUSSES, BEAMS

10. STABILIZING ANGLES (2) 1/2 X 1-1/2 X 16 GA X 3

11. MOUNTING FASTENERS (BOLTS, SCREWS, RIVETS)

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4 RADIATION DAMPER DETAIL
M4 N.T.S.

Coastal Plains Engineering, P.A.

295 LOCKLEAR RD
P.O. Box 1117
Pembroke, NC 28372

Fax: 910-521-7213



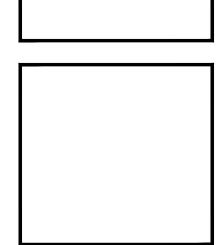
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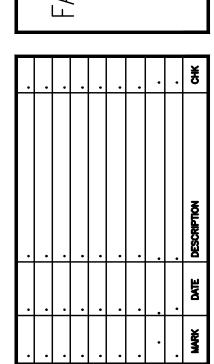
ANDREW W. PRIVETTE, AIA

1920 FT. BRAGG ROAD
FAYETTEVILLE,
NORTH CAROLINA 28303

TELE. (910) 485-8567
andy@designedtobuild.com



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



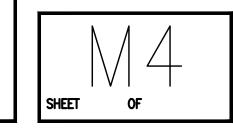
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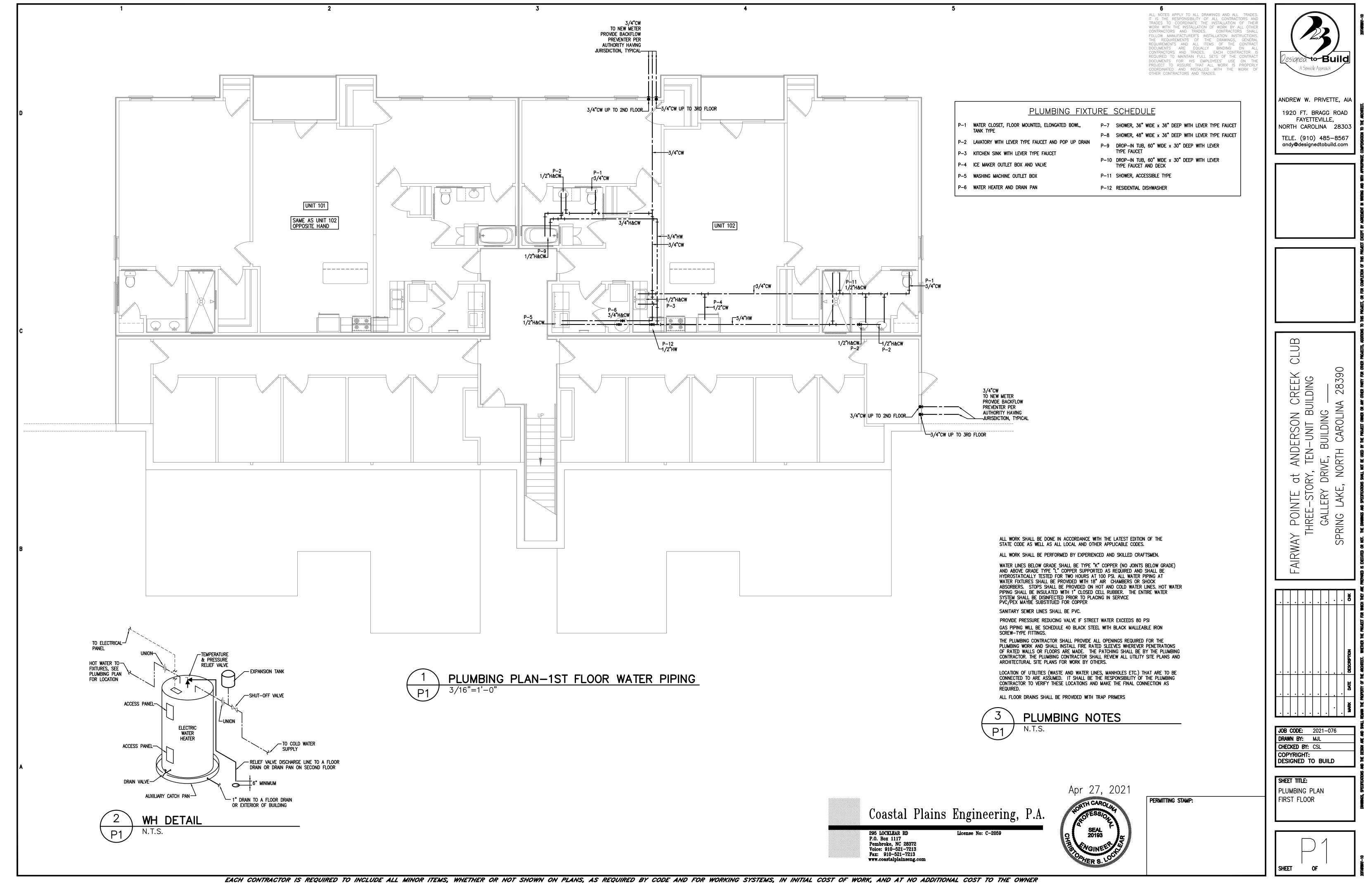
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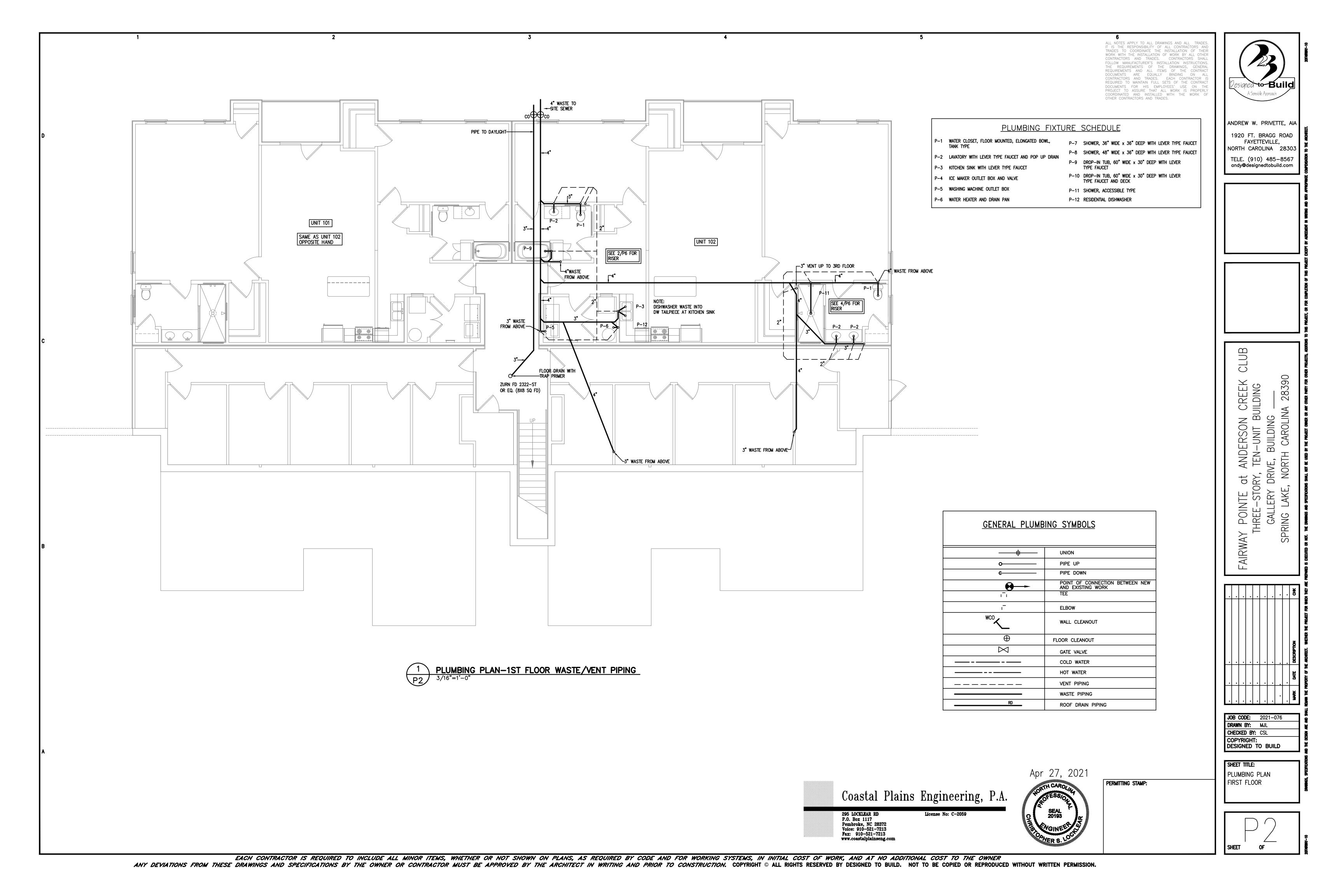
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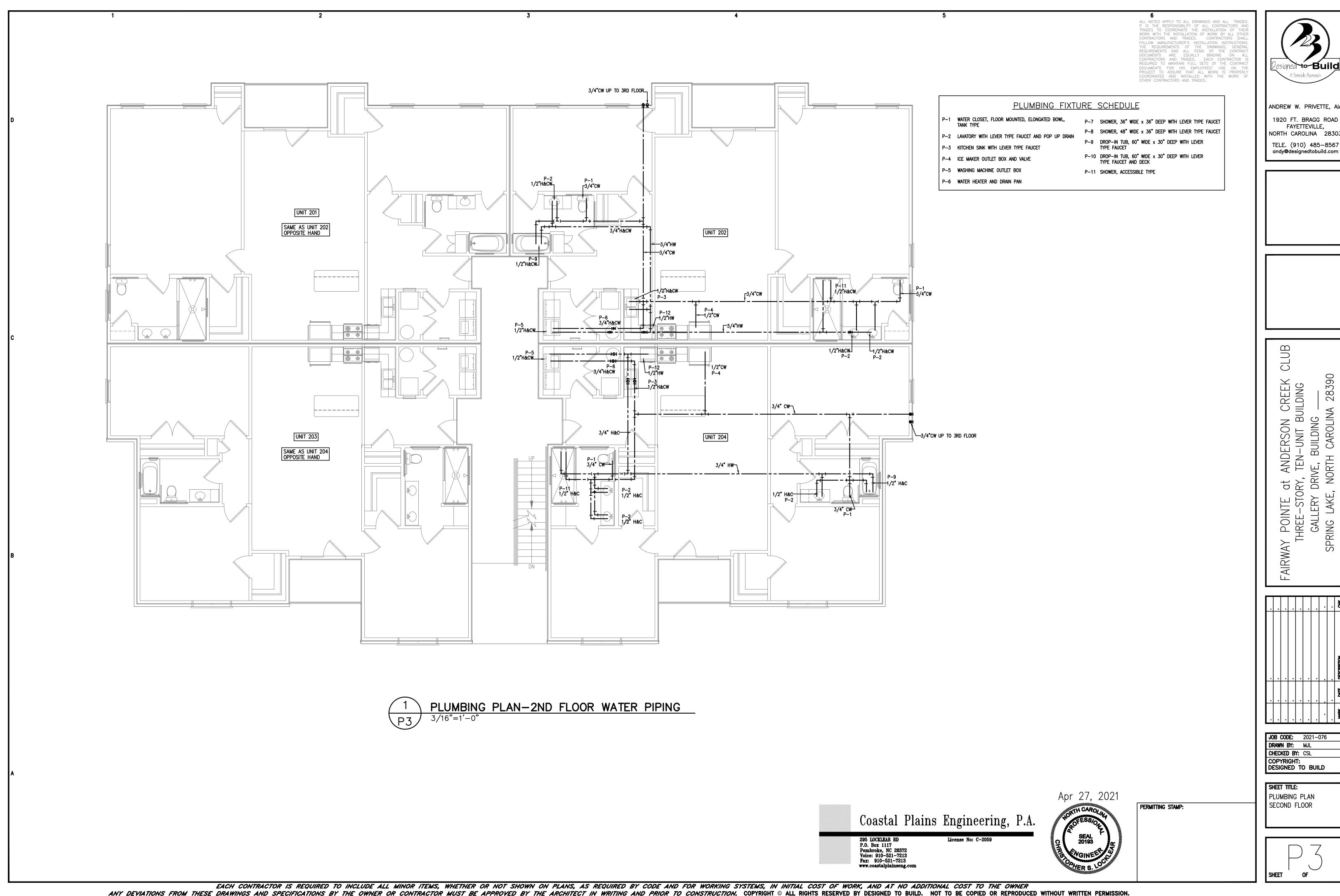
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SHEET TITLE: HVAC NOTES & DETAILS

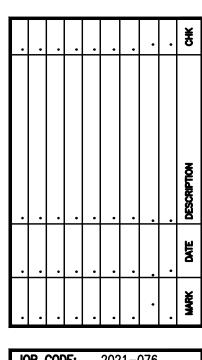




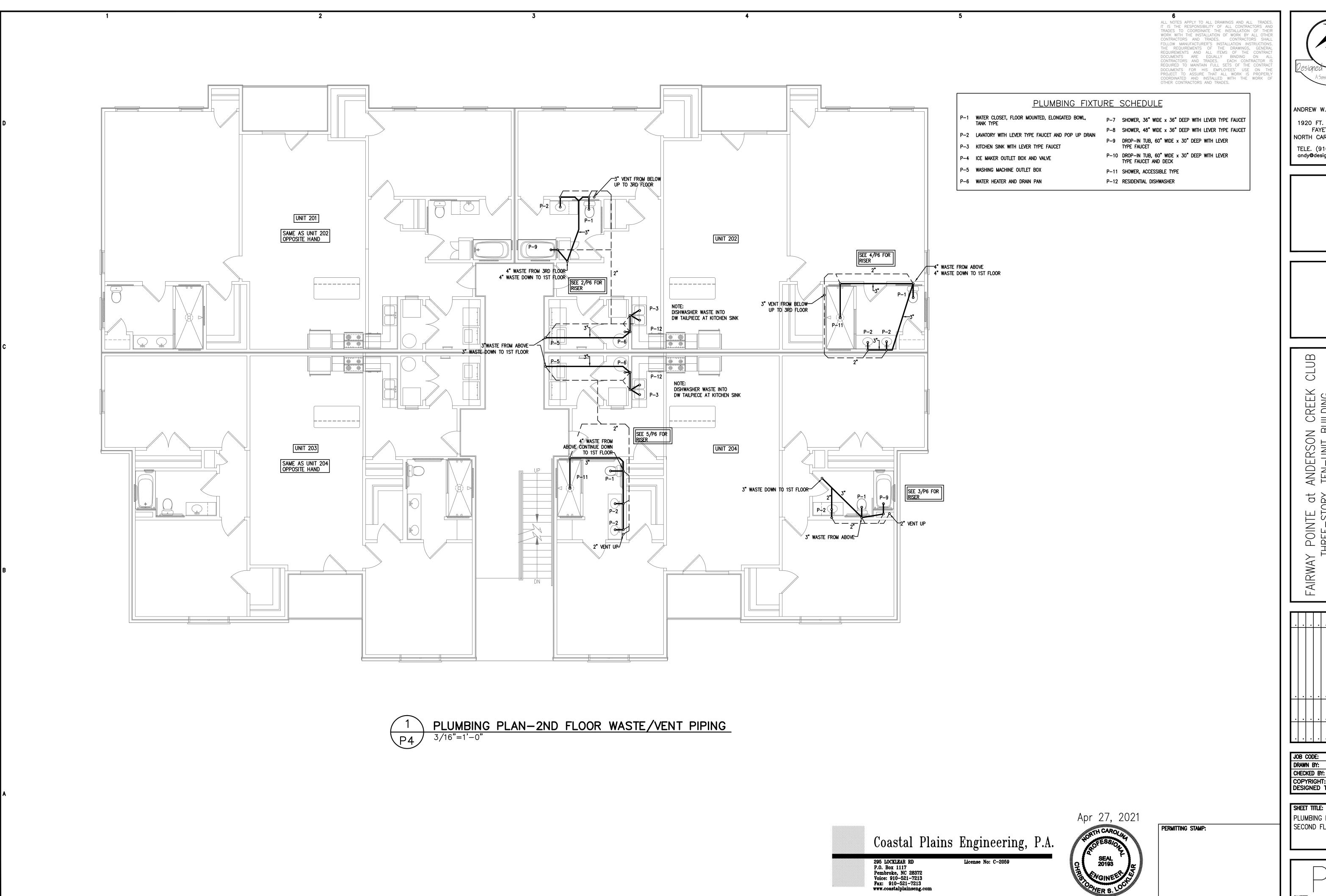




1920 FT. BRAGG ROAD NORTH CAROLINA 28303 TELE. (910) 485-8567 andy@designedtobuild.com





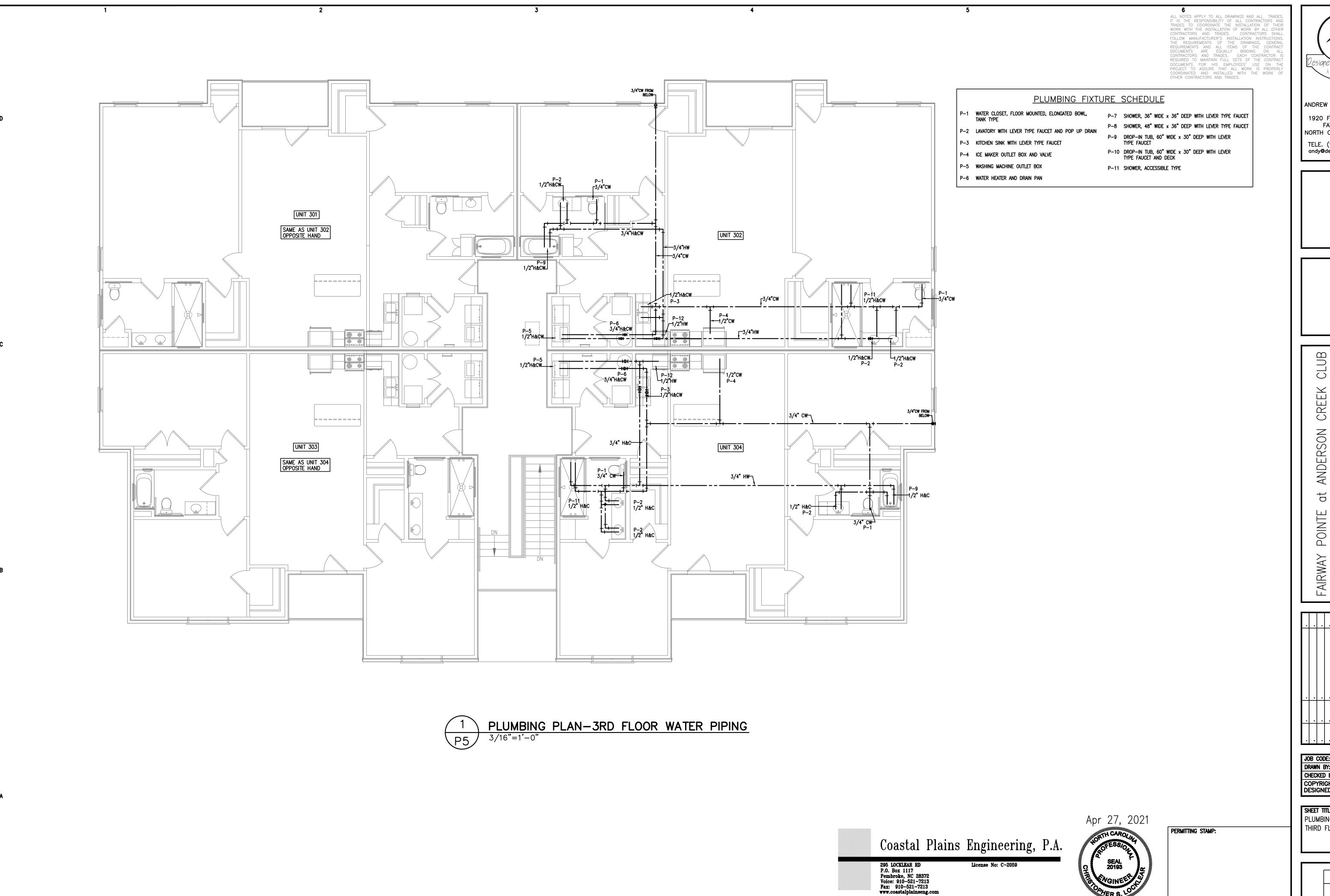


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ANDERSON CREEK TEN-UNIT BUILDING

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PLUMBING PLAN SECOND FLOOR



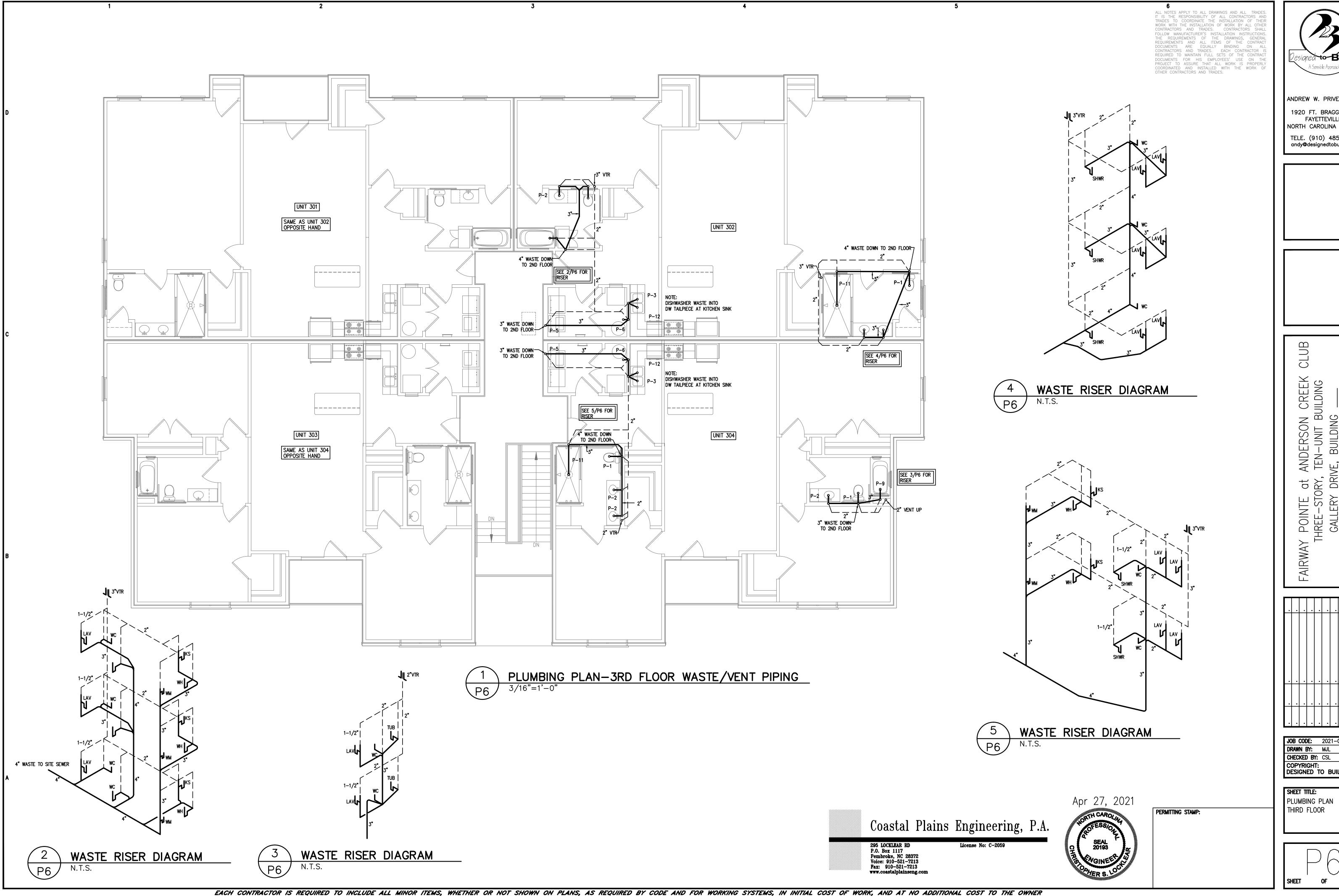


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ANDERSON CREEK
TEN-UNIT BUILDING
IVE, BUILDING
ORTH CAROLINA 28390

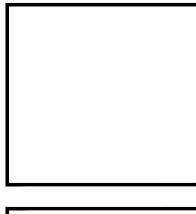
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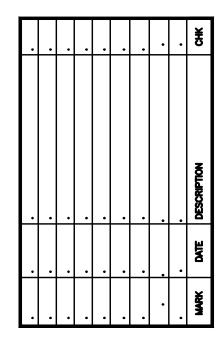
PLUMBING PLAN THIRD FLOOR





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