

MEREDITH SQUARE PHASE 3

Apartments

Buies Creek, North Carolina

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: Meredith Square Phase 3 Apartments - Building Type 2
 Address: 603 Main Street, Buies Creek, NC
 Owner/Authorized Agent: Meredith Square LLC
 Code Enforcement Jurisdiction: City County City/County State

CONTACT:
 DESIGNER: FIRM: J.B. Smith Architect, PA
 ARCHITECTURAL: Jill B. Smith, License 6448
 ELECTRICAL: Turnkey Engineering, PLLC
 MECHANICAL: Turnkey Engineering, PLLC
 STRUCTURAL: Lysaght & Associates, PA

PROJECT SUMMARY:
 Scope of Work: Project consists of 24 two-bedroom apartments with six units housed in two buildings. One building is designated as a Type A building and designated in these drawings as the Type 2 Building. Type 2 has four two-story apartments units and two one-story apartments units stacked. The ground level unit is a one-story Type A unit. This code summary is for the Type 2 building. Building construction includes reinforced concrete slab on grade with wood framing, wood floor and roof trusses clad in brick & vinyl siding with low-E insulated vinyl windows and insulated doors. The building has an NFPA 13R fire sprinkler system. There is a non-separated 52 storage occupancy under the private staircase to the one-story unit above the Type A unit.

2018 NC BUILDING CODE: New Bldg Addition Renovation Alteration
 2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III

Constructed: _____ Current Occupancy(s) (Ch 3): _____
 Renovated: _____ Proposed Occupancy(s) (Ch 3): _____
 RISK CATEGORY (Table 1604.5): I II III IV

BUILDING DATA:
 Construction Type: I-A I-B II-A II-B III-A III-B IV V-A V-B
 Sprinklers: No Yes Partial
 Standpipes: No Yes
 Fire District: No Yes
 Special Inspection Required: No Yes
 Building Height: Feet: 25
 Gross Building Area: 14,000 sq ft

OCCUPANCY INFORMATION:
 Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5 Business Factory F-1 Mod F-2 Low
 Educational Hazardous H-1 H-2 H-3 H-4 H-5 H-6 H-7 H-8 H-9 H-10
 Institutional I-1 I-2 I-3 I-4 I-5 I-6 I-7 I-8 I-9 I-10
 Residential R-1 R-2 R-3 R-4 R-5 R-6 R-7 R-8 R-9 R-10
 Storage S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9 S-10
 Utility and Miscellaneous U-1 U-2 U-3 U-4 U-5 U-6 U-7 U-8 U-9 U-10

Non-Separated Use (502.3). The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Mixed Occupancy (508.4). See below for area calculations. For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A	Actual Area of Occupancy B	Allowable Area of Occupancy A	Allowable Area of Occupancy B

STORY/Description & Use	(A) BLD AREA PER STORY (ACTUAL)	(B) AREA FRONTAGE INCREASE	(C) AREA FRONTAGE INCREASE	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
Exterior Wall				
North				
South				
East				
West				
TOTAL				

1. Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet min width = _____ ft (F)
 b. Total Building Perimeter = _____ ft (P)
 c. Ratio (F/P) = _____
 d. H = Minimum width of public way = _____ ft (W)
 e. Percent of frontage increase $I_f = 100 [(F/P) - 0.25] \times W/50 = _____\%$

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) (506.2).
 4. The maximum area of open parking garages must comply with Table 406.5.4.
 5. Frontage increase is based on the un-sprinklered area value in Table 506.2.

MOST RESTRICTIVE USE: _____
 Building Height in Feet (Table 504.3) H = 60 ft
 Building Height in Stories (Table 504.4) S = 2

1. Provide code reference if the "shown on plans" quantity is not based on Table 504.5 or 504.4.
 2. The maximum height of air traffic control towers must comply with Table 412.5.1.
 3. The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	Fire separation (Feet)	Rating	Design #	Design #	Design #
Bearing Walls Exterior					
North					
East					
West					
South					
Interior Bearing Walls					
Nonbearing Walls Exterior					
North					
East					
West					
South					
Interior Non bearing Walls					
Structural frame including columns, girders, trusses					
Floor construction, including supporting beams and joists					
List construction type					
Floor Ceiling Assembly					
Columns Supporting Floors					
Roof construction including supporting beams & joists					
Roof Ceiling Assembly					
Columns Supporting Roof					
Shafts - Exit Enclosures					
Shafts - Other (describe)					
Corridor Separation					
Occupancy Separation					
Party/Fire Wall Separation					
Incidental Use Separation					
Dwelling/Sleeping Unit Separation					
Smoke Barrier Separation					
Smoke Partition					
Tenant Separation					

* Indicate section number permitting reduction
MALL LEGENDS: Fire Walls T06 Fire Barriers T07 Shaft Enclosure T08
 Fire Part T09 Smoke Barriers T10 Smoke Partitions T11 Horizontal Assembly T12

LIFE SAFETY SYSTEM REQUIREMENTS:
 Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes
 Panic Hardware: No Yes

LIFE SAFETY SYSTEM REQUIREMENTS: Life Safety Plan Sheet #: _____
 Fire and/or smoke-rated wall locations (Chapter 7)
 Assumed or Real Property Lines (Existing structures within 30' of the proposed building)
 Exterior wall opening area w/respect to distance to assumed property lines (100.1.4.2)
 Occupancy Use for each area as it relates to occupancy load calculation (Table 1004.1.2)
 Occupant loads for each area Common path of travel distances (1006.2.1 & 1006.3.2.11)
 Exit access travel distances (1011) Clear exit widths for each exit door
 Dead End length (1020.4) Actual occupant load for each exit door
 Max. calculated occupant load capacity each exit door can accommodate based on egress width (1005.5)
 A separate schematic plan indicating where fire-rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation.
 Location of doors with panic hardware (1010.1.9.1)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.1.4)
 Location of doors with electromagnetic egress locks (1010.1.9.1.4)
 Location of doors with hold-open devices Location of emergency escape windows (1020)
 Square footage of each fire area (902) Square footage of each smoke compartment (407.5)
 Note any code exceptions or table notes that may have been utilized regarding these items.

EXIT REQUIREMENTS NUMBER & ARRANGEMENT OF EXITS:

Floor Room and/or Space Designation	Minimum Number of Exits	Travel Distance	Arrangement Means of Egress (Section 1016)
R2 Unit Type A + Reg	2	250'	53'
R2 Unit Reg Upstairs	1	250'	74'

1. Corridor dead ends (Section 1020.4)
 2. Section 1022
 3. Common Path of Egress Travel (Section 1006.2.1)

OCCUPANT LOAD AND EXIT WIDTH:

Use Group And/or Space Designation	(a) Area, sq. ft.	(b) Area Per Occupant Load (1004.1.1)	(c) Calculated Occupant Load (a/b)	(d) Egress Width Per Occupant (1005.1)	(e) Required Width (a/b) x (c)	(f) Actual Width Shown on Plans
2-bed	1060 grs	200 grs	6	0.3	0.2	1.8
2-bed C	1060 grs	200 grs	6	0.3	0.2	1.8

1. See table 1004.1.2 to determine whether net or gross area is applicable.
 2. Minimum stairway width (Section 1011.2); min. corridor width (Section 1020); min. door width (Section 1010.1.1).
 3. Minimum width of exit passageway (Section 1024.2)
 4. See Section 1005.6 for converging exits.
 5. The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.5).
 6. Assembly occupancies (Section 1029)

ASSEMBLY OCCUPANCY INFORMATION THIS SECTION FOR ASSEMBLY USE AREA(S)

Space Description	Area - SQ. FT.	Occupant Load Factor	Occupant Load	Exit Width	Exit Quantity
N/A					

ACCESSIBLE DWELLING UNITS (SECTION 1107)

Total Units	Required	Provided	Type A Units	Type B Units	Total # Accessible Units	Notes
REFER TO COV DWG						

ACCESSIBLE PARKING (SECTION 1106)

Lot or Parking Area	Total # of Spaces	# of Accessible Spaces Provided	Total # Accessible Provided
REFER TO COV DWG			

SPECIAL APPROVAL: (Describe special approvals from local jurisdictions, County or State, NCDOT, OSG, DPI, DHS, ICC, etc.)

PLUMBING REQUIREMENTS (Table 2902.1)

Space	Water Closet	Urinals	Lavatories	Showers/Tubs	Drinking Fountains	Notes and Exceptions
R-2	M F Unsex		M F Unsex		Regular Accessible	

ENERGY SUMMARY:

ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: Yes No
 Exempt building: Yes No (Provide code or statutory reference)

METHOD OF COMPLIANCE: Energy Code Prescriptive ASHRAE 90.1 Performance
 Prescriptive Performance Rescheck

CLIMATE ZONE: 3A 4A 5A

THERMAL ENVELOPE (Prescriptive Method only)

Roof/Ceiling Assembly (each assembly):
 Description of assembly: _____
 U-Value of total assembly: SEE ATTACHED REScheck CERTIFICATE
 R-Value of insulation: _____
 Skylights in each assembly: N/A
 U-Value of skylight: _____
 total square footage of skylights in each assembly: _____

Exterior Wall (each assembly):
 Description of assembly: Repair only to existing
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing):
 U-Value of assembly: _____
 Solar Heat Gain coefficient: _____
 Door R-Value: R = U = 0 SHGC = 0

Walls adjacent to unconditioned space (each assembly):
 None
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing):
 U-Value of assembly: _____
 U-value required, if applicable: _____
 Door R-Value: _____

Walls below grade (each assembly): N/A
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Floors over unconditioned space: (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floor slab on grade (each assembly):
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: R: _____
 Horizontal/vertical requirement: _____
 Heated slab: N/A



Project Title: Meredith Square Apartments Phase 3 Bldg Type 2

Energy Code: North Carolina Energy Conservation Code
 Location: Lillington, North Carolina
 Construction Type: Multifamily
 Project Type: New construction
 Glazing Area Percentage: 7%
 Heating Degree Days: 3502
 Climate Zone: 4

Construction Site: 603 Main Street, Buies Creek, NC 27546
 Owner/Agent: Lucia Turlington, Meredith Square LLC, PO Box 143, Dunn, NC 28335, 919 697-6505, castorccc@gmail.com
 Designer/Contractor: Jill Smith, J.B. Smith Architect PA, PO Box 18161, Raleigh, NC 27619-8161, 919 807-1111, info@jbsmitharchitect.com

Compliance: Passes using UA trade-off
 Compliance: 1.7% Better Than Code
 Maximum UA: \$99
 Your UA: 992
 Maximum SHGC: 0.30
 Your SHGC: 0.30

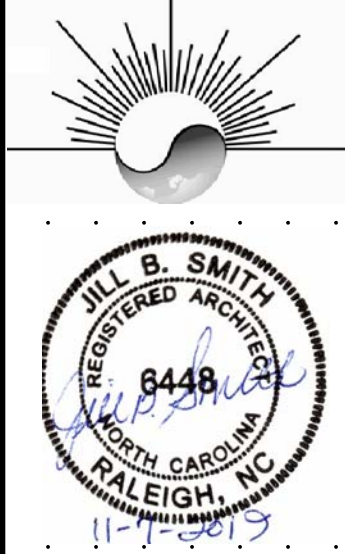
The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rates. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Floor 1: Slab-On-Grade Unheated	315		10.0		278
Insulation depth: 1.0'					
Ceiling 1: Flat Ceiling or Sissor Truss	3613	38.0	0.0		108
Wall 1: Wood Frame, 16" o.c.	6099	15.0	0.0		419
Window 1: Vinyl/Fiberglass Frame/Double Pane with Low-E	51			0.310	16
SHGC: 0.30					
Window 2: Wood Frame/Double Pane with Low-E	81			0.310	25
SHGC: 0.30					
Window 3: Vinyl/Fiberglass Frame/Double Pane with Low-E	287			0.310	89
SHGC: 0.30					
Door 1: Solid	120			0.140	17
Door 2: Solid	120			0.250	30

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the North Carolina Energy Conservation Code requirements in REScheck Version 4.6.2.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Jill B. Smith ARCHITECT
 Signature: _____
 Date: 10/3/2019

Jill B. Smith Architect, PA
 PO Box 18161 Raleigh, NC 27619-8161
 Phone: 919 807 1111 Fax: 919 232 5038
 info@jbsmitharchitect.com



Permit Set

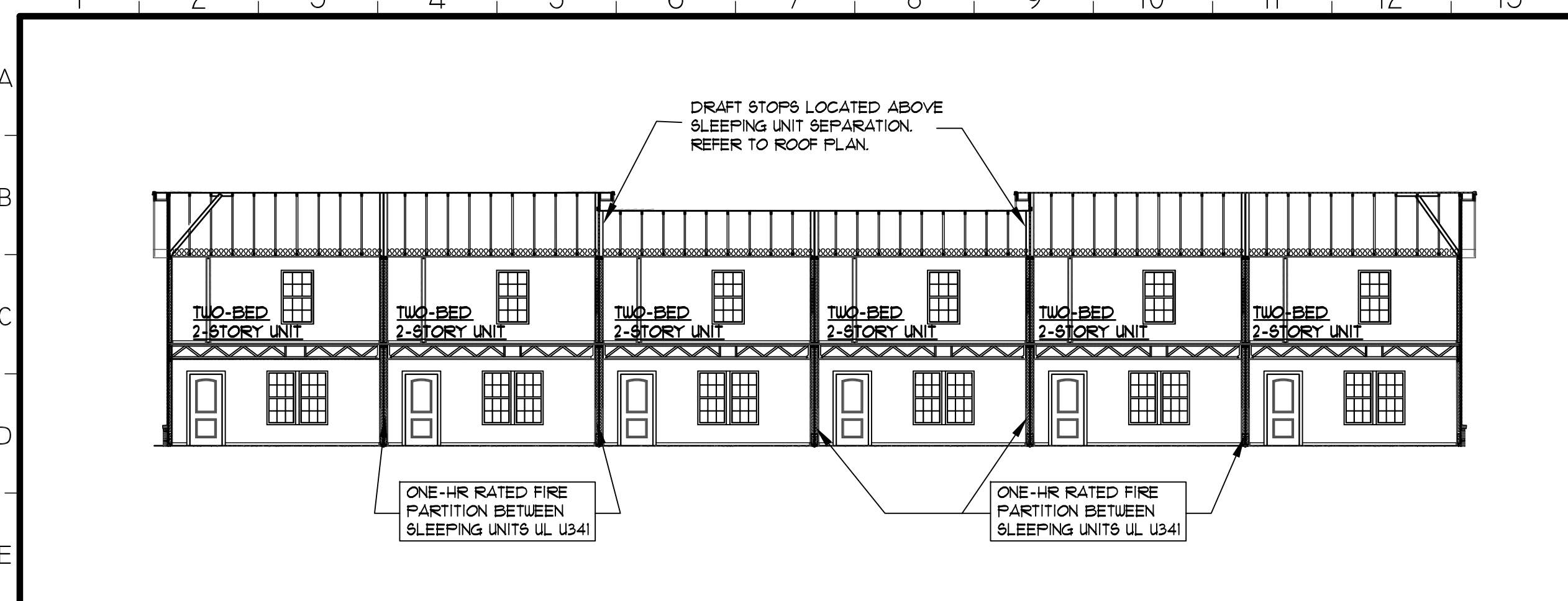
Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO: 18101
 DWG NO: COV-2
 DRAWN BY: JS
 DATE: 10/25/2019

REVISIONS

Code Summary
 Bldg Type 2

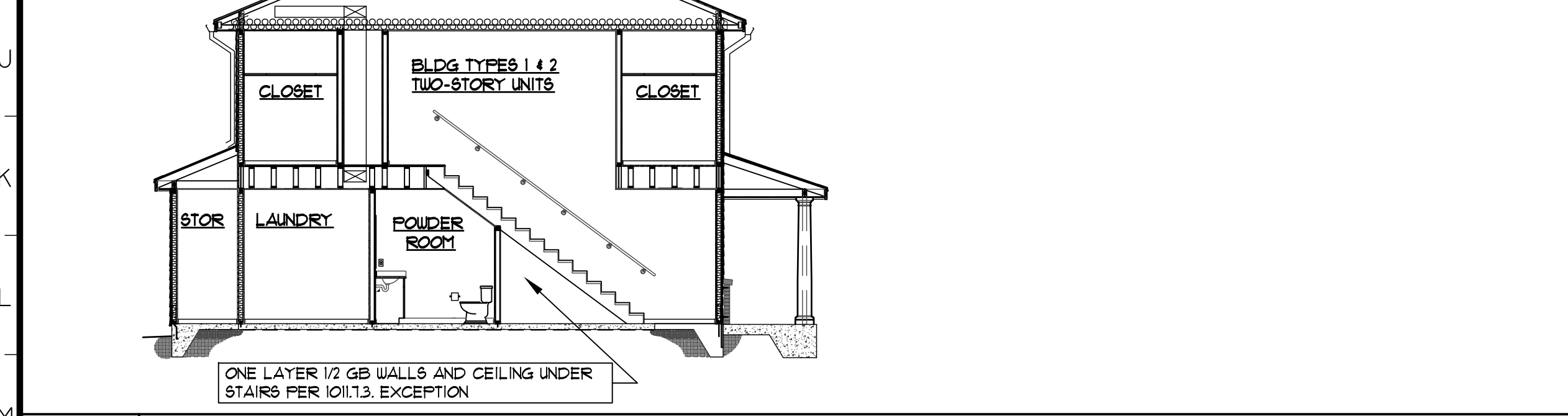
COV-2



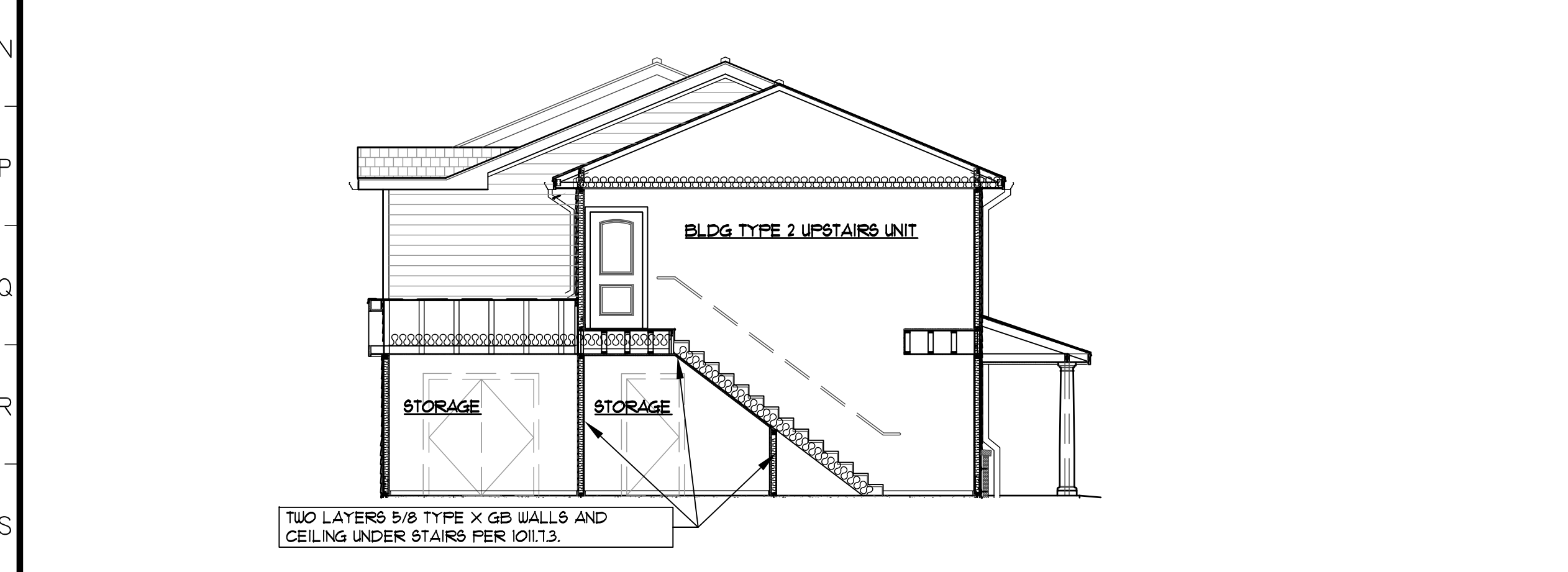
F01 Building Type 1 Building Section NOT TO SCALE



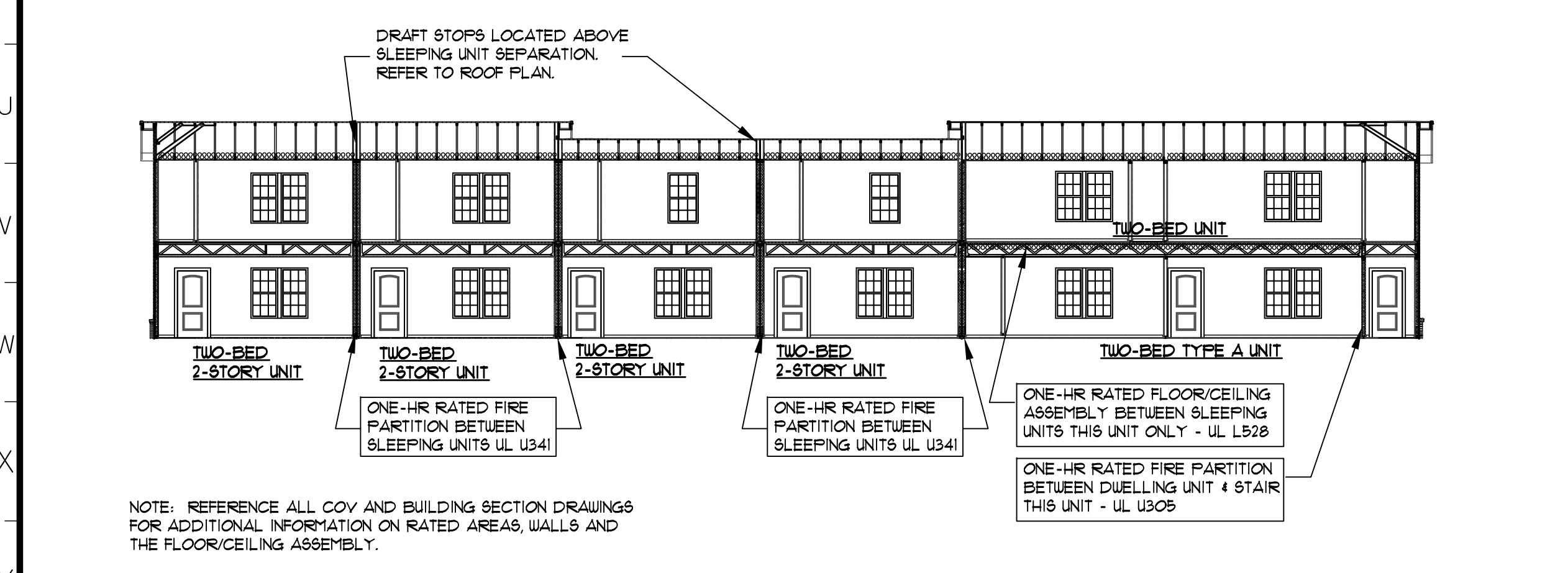
H09 Legend



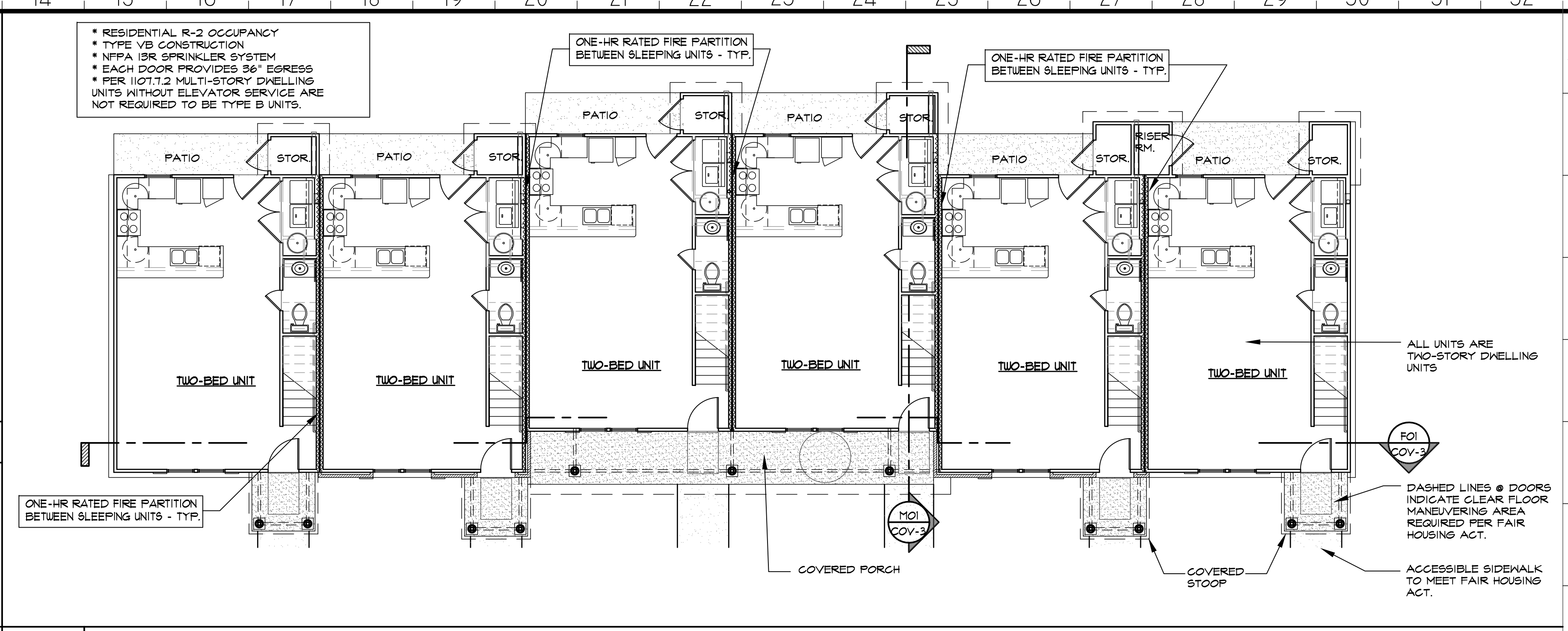
M01 Building Type 1 Building Section NOT TO SCALE



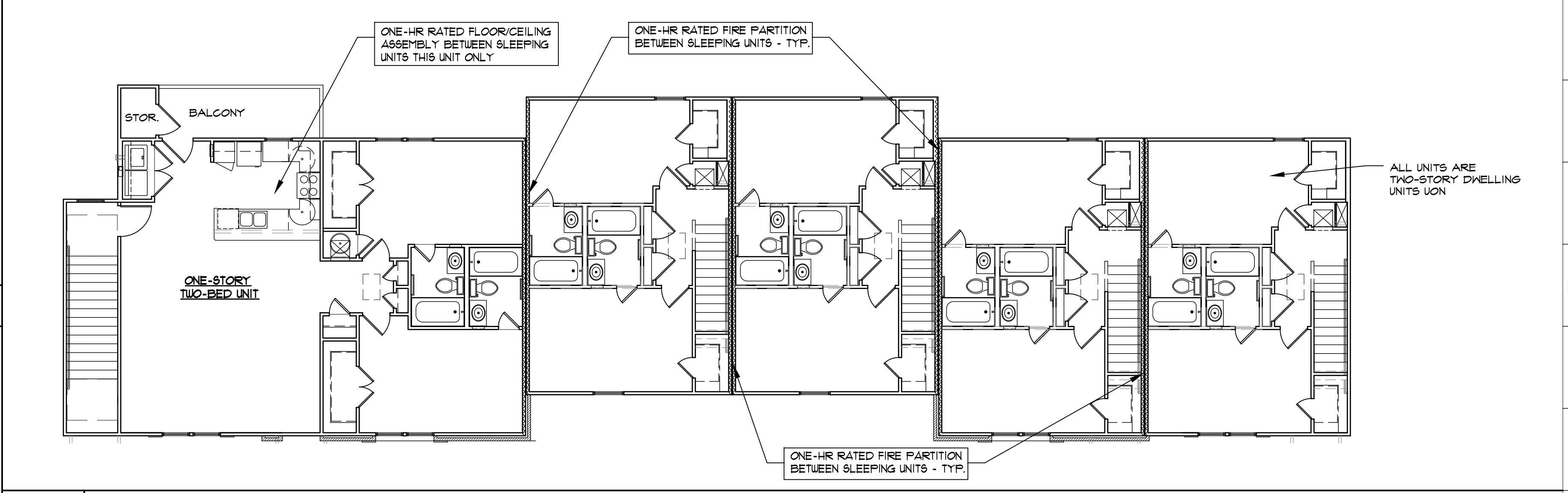
T01 Building Type 2 Building Section NOT TO SCALE



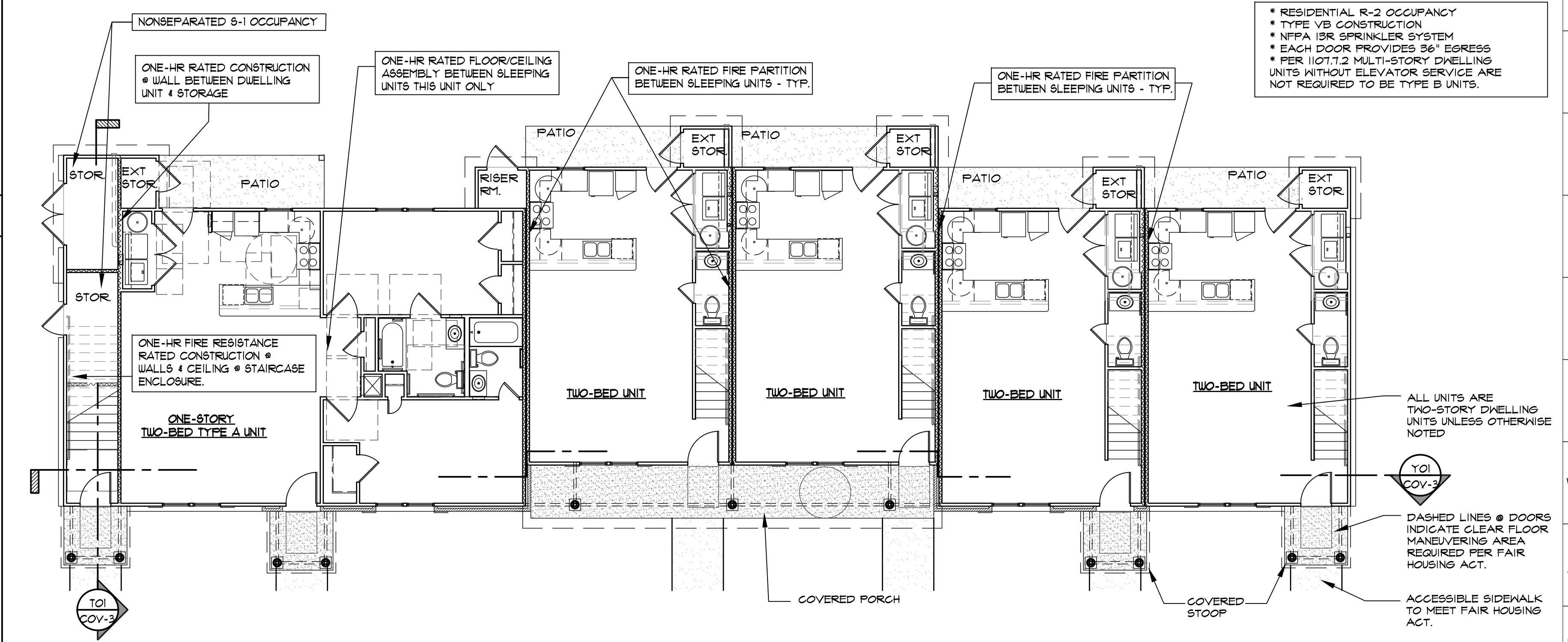
Y01 Building Type 2 Building Section NOT TO SCALE



H14 Building Type 1 Life Safety Floor Plan SCALE: 1/8" = 1'-0"



Q14 Building Type 2 Upper Level Floor Plan SCALE: 1/8" = 1'-0"



Y14 Building Type 2 Lower Level Floor Plan SCALE: 1/8" = 1'-0"

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Permit Set

Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO: 187101
 DWG NO: COV-3
 DRAWN BY: JS
 DATE: 02/25/2018

REVISIONS

Life Safety Building Plans

COV-3

GENERAL

- DIMENSIONS SHOWN ON ALL FLOOR PLANS ARE TO FACE OF WOOD STUD OR BRICK VENEER UNON.
- ALL INTERIOR PARTITIONS SHALL BE 2x4 WOOD STUDS UNLESS OTHERWISE NOTED.
- PROVIDE A 20" x 30" (MIN) LOCKABLE INSULATED ATTIC ACCESS PANEL - SEE FLOOR PLANS FOR LOCATIONS (TYP).
- ALL EXTERIOR STORAGE UNITS SHALL HAVE SEALED CONCRETE FLOORS. WALLS BETWEEN STORAGE AND LAUNDRY SHALL BE FILLED WITH A MINIMUM R-15 UNFACED BATT INSULATION.
- INSTALL WALL DOOR STOPS AT ALL LOCATIONS EXCEPT WHEN WALL IS NOT AVAILABLE.

CLOSETS

- ALL CLOSETS 48" OR DEEPER WILL BE CONSIDERED WALK-IN CLOSETS AND SHALL HAVE A LIGHT AND SEPARATE LIGHT SWITCH.
- HANGING RODS & SHELF COMBINATIONS IN ALL UNITS SHALL BE INSTALLED @ 66" AFF. WITH AN ADDITIONAL SET OF BRACKETS IN ACCESSIBLE UNITS NO HIGHER THAN 48" AFF.
- ALL "LINEN CLOSETS", "LINEN CABINETS", "PANTRY CLOSETS", AND "PANTRY CABINETS" SHALL HAVE A MINIMUM OF (3) SHELVES.
- INSTALL 12" DEEP WIRE ROD & SHELF COMBINATION IN COAT & BEDROOM CLOSETS.
- INSTALL 16" DEEP WIRE SHELF ABOVE WASHER & DRYER IN LAUNDRY ROOMS.
- PAINT WALLS & INSTALL THE SPECIFIED FLOORING IN ALL HVAC CLOSETS PRIOR TO EQUIPMENT INSTALLATION.

KITCHEN NOTES:

- WALLS SHALL HAVE SATIN PAINT FINISH UNON.
- ALL KITCHENS SHALL HAVE EITHER A DRY CHEMICAL FIRE EXTINGUISHER MOUNTED AND READILY VISIBLE AND ACCESSIBLE OR AN AUTOMATIC FIRE SUPPRESSION CANISTER MOUNTED IN EACH RANGE HOOD.
- ALL KITCHENS SHALL HAVE 42" MIN. CLEAR BETWEEN CABINETS AND/OR APPLIANCES.

BATHROOM NOTES

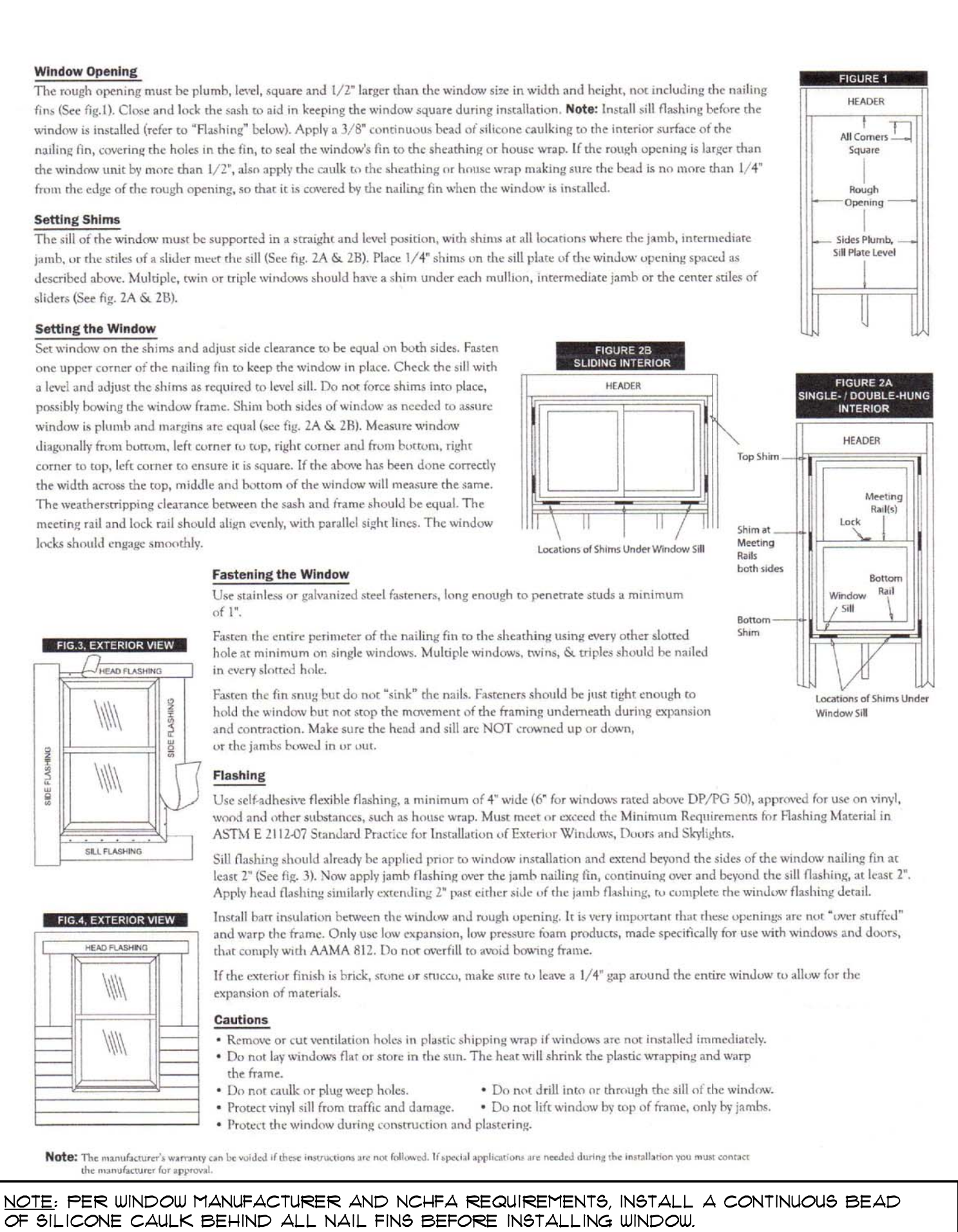
- SEE BATHROOM ELEVATIONS FOR VANITY DIMENSIONS. FULL BATHROOMS TO HAVE A RECESSED MEDICINE CABINET.
- INSTALL MOLD & WATER-RESISTANT GYPSUM BOARD ON ALL BATHROOM, LAUNDRY, MECHANICAL AND EXTERIOR STORAGE ROOM WALLS AND CEILINGS.
- MIRROR IN BATHROOMS TO BE THE WIDTH OF THE VANITY OR LAVATORY UNON. SEE BATHROOM ELEVATIONS FOR THE HEIGHT OF MIRROR & BOTTOM OF MIRROR @ COUNTER BACKFLASH.

EXTERIOR BUILDING

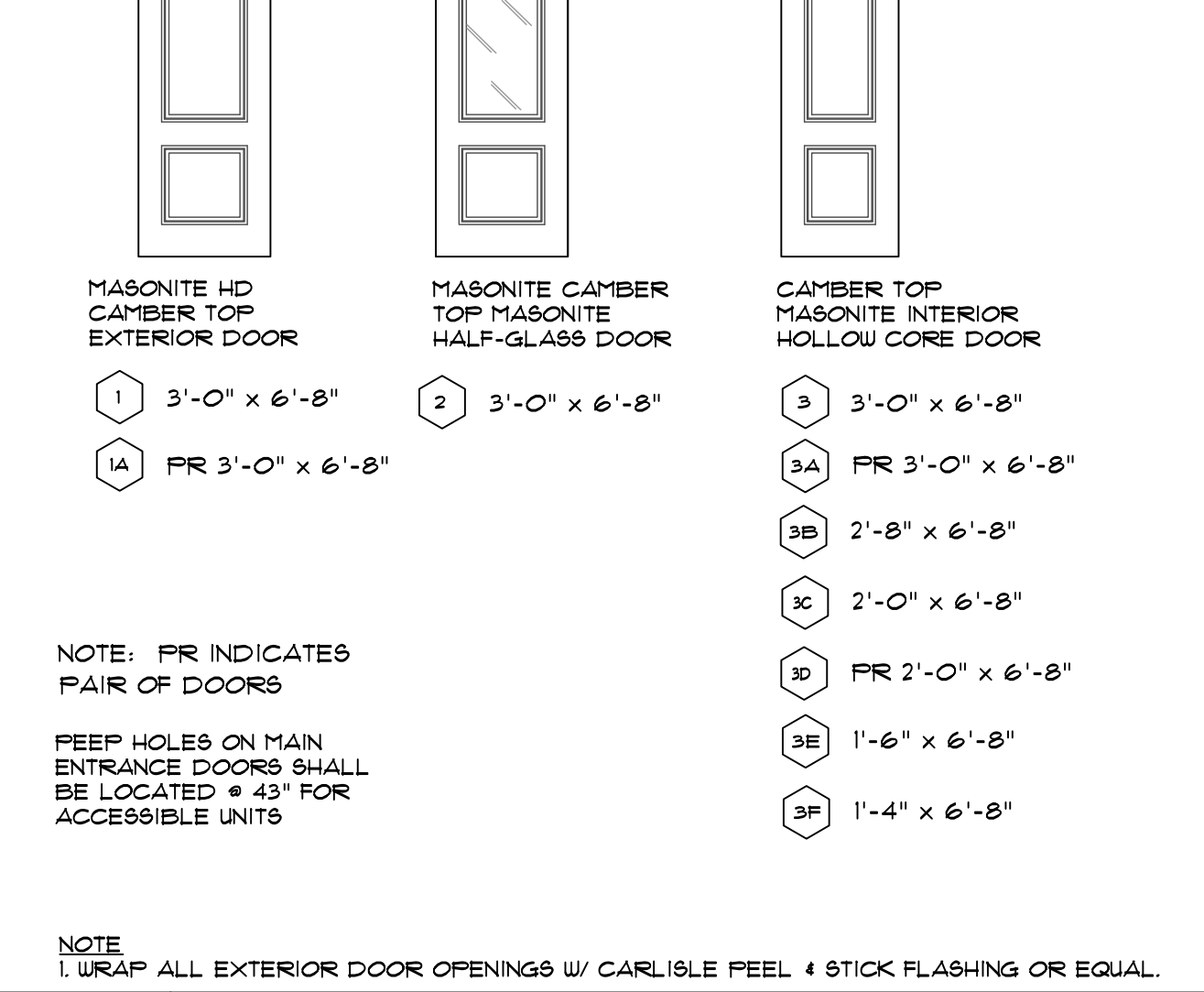
- ALL EXTERIOR UNIT FRONT DOORS SHALL BE EQUAL TO MASONITE HD DOOR WITH SINGLE LEVER DEADBOLTS & EYE VIEWERS.
- ALL EXTERIOR DOORS SHALL HAVE WOOD FRAMES & CASING.
- SEE DRAWING 'A6.01' FOR TYPICAL TENANT SEPARATION WALL CONSTRUCTION.
- ALL WATER FROM ROOF & GUTTER SYSTEMS MUST BE PIPED AWAY FROM BUILDINGS & DISCHARGED NO LESS THAN SIX FEET FROM BUILDING FOUNDATIONS.
- FINISHED FLOOR TO BE A MINIMUM OF 8" ABOVE FINISHED GRADE.
- AT VINYL SIDING APPLICATIONS, ALL EXTERIOR LIGHTS, GFI'S, HVAC SUBPANELS, HOSE BIBS, AND TELEPHONE AND CABLE BOXES SHALL BE INSTALLED IN PLASTIC J-BOXES.

PLUMBING, MECHANICAL & ELECTRICAL NOTES

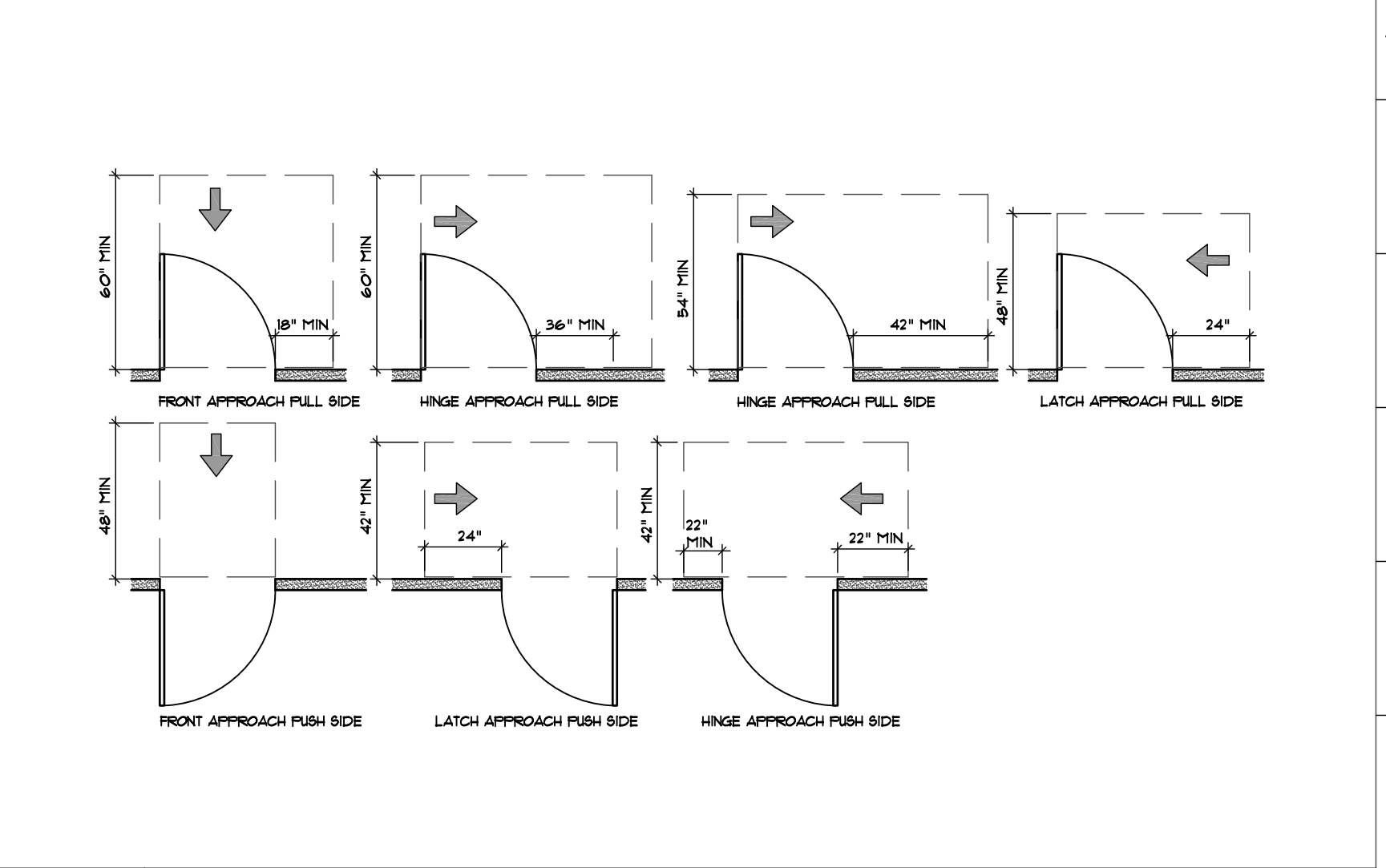
- ALL ELECTRICAL DEVICES & COVER PLATES SHALL BE WHITE. USE OVERSIZED PLATES WHEN NECESSARY TO COMPLETELY COVER OPENINGS.
- PROVIDE ARC FAULT DETECTION ELECTRICAL DEVICES IN ALL BEDROOMS.
- WHENEVER POSSIBLE LOCATE DRYER EXHAUST & BATHROOM EXHAUST VENTS TO A SIDE WALL OR REAR WALL OF THE BUILDING OR SOFFIT. PAINT ALL VENT HOODS LOCATED IN BRICK VENEER TO MATCH BRICK.
- INSTALL 4" H x 8" W (MIN) PASS-THRU GRILLE ABOVE LAUNDRY ROOM CLOSET. PROVIDE 3/4" AIR SPACE UNDER ALL INTERIOR DOORS MEASURED FROM FINISHED FLOOR.
- SEE DRAWING 'A6.01' FOR RADON VENTILATION DETAIL. INSTALL IN LAUNDRY ROOM 2 x 6 STUD WALL. ONLY ONE PER BUILDING IS REQUIRED. ZOOM



L09 WINDOW FLASHING DETAILS



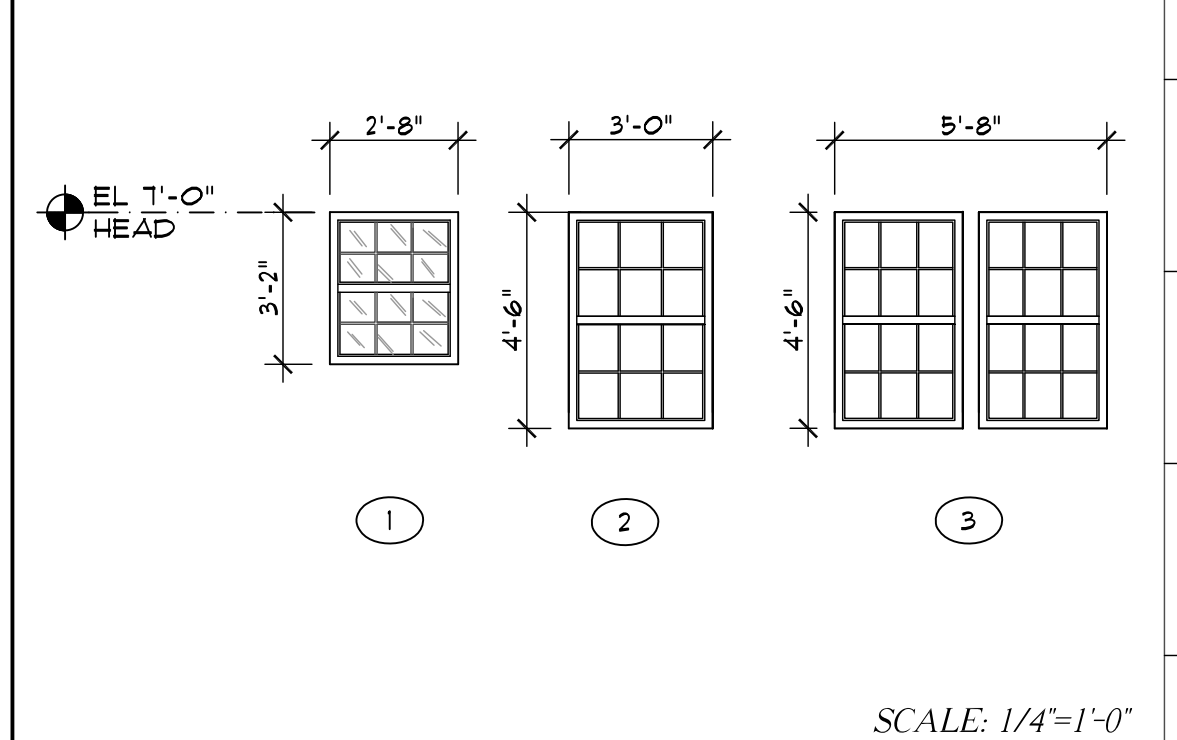
G17 DOOR ELEVATIONS



G24 ACCESSIBLE DOOR APPROACH SCALE: 1/4"=1'-0"

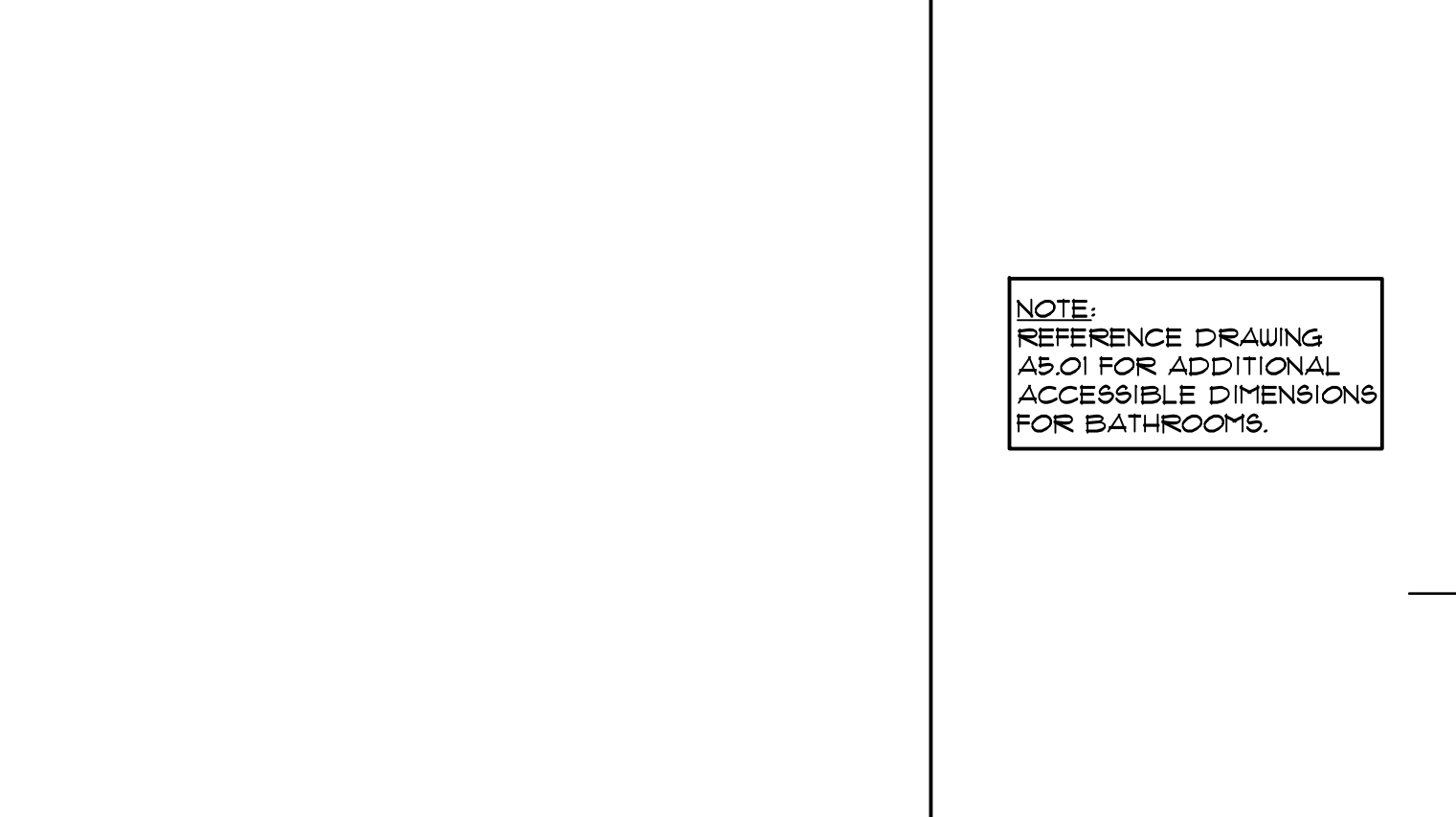
WINDOW NOTES

- WINDOW FRAMES SHALL BE VINYL W/ WIDE TRIM.
- ALL WINDOWS IN MASONRY WALLS SHALL HAVE THRU WALL FLASHING WITH WEEPS @ 24" O.C. AT HEAD & SILL.
- PER EXCEPTION (1) OF 1029.1 FOR NFPA 13R FIRE SPRINKLER SYSTEM, EMERGENCY ESCAPE AND RESCUE OPENINGS IN WINDOWS ARE NOT REQUIRED.
- WRAP ALL WINDOW OPENINGS W/ CARLISLE FEEL & STICK FLASHING OR EQUAL - SEE WINDOW DETAILS.
- WINDOWS SHALL BE INSULATED LOW-E SINGLE HUNG EQUAL TO SILVERLINE SERIES 2301 LOW-E2 GLAZING WITH ARGON.



L23 WINDOW NOTES

L27 WINDOW ELEVATIONS



R14 ACCESSIBLE MOUNTING HEIGHTS

APC	ACOUSTIC PANEL CEILING	MC	MEDICINE CABINET
BD	BOARD	MECH	MECHANICAL
C	CARPET	MT	MARBLE THRESHOLD
CL	CENTER LINE	NIC	NOT IN CONTRACT
CB	CEMENTITIOUS BOARD	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OC	ON CENTER
CT	CERAMIC TILE	O/H	OVER HEAD
D	DRAWER	OPP	OPPOSITE
DN	DOWN	F	PAINT
DS	DOWN SPOUT	PT	PAPER TOWEL
EP	EPOXY PAINT	SC	SEALED CONCRETE
EUC	ELECTRIC WATER COOLER	SM	SIMILAR
EX	EXISTING	SS	STAINLESS STEEL
EJ	EXPANSION JOINT	TB	TOWEL BAR
FE	FIRE EXTINGUISHER	TYP	TYPICAL
FF	FINISH FLOOR	T.P.	TOILET PAPER
FG	FULL GLASS	U.ON.	UNLESS OTHERWISE NOTED
FD	FLOOR DRAIN	V	VINYL (SHEET)
GYP	GYPSUM	V.P.	VINYL FLANK
GYP BD	GYPSUM BOARD	VCT	VINYL COMPOSITION TILE
L	LINEN CLOSET	WD	WOOD
LAV	LAVATORY	W/H	WATER HEATER
LVR	LOUVER		

R14 ACCESSIBLE MOUNTING HEIGHTS SCALE: 1/4"=1'-0"

R27 ABBREVIATIONS

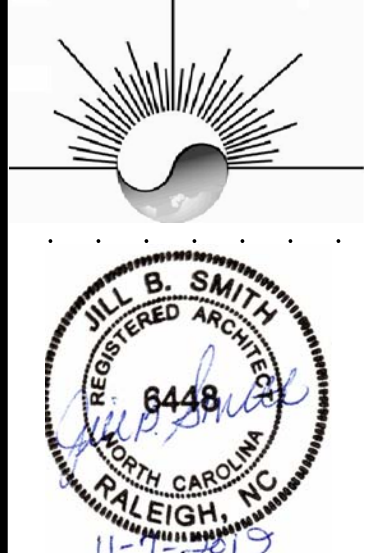
APC	ACOUSTIC PANEL CEILING	MC	MEDICINE CABINET
BD	BOARD	MECH	MECHANICAL
C	CARPET	MT	MARBLE THRESHOLD
CL	CENTER LINE	NIC	NOT IN CONTRACT
CB	CEMENTITIOUS BOARD	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OC	ON CENTER
CT	CERAMIC TILE	O/H	OVER HEAD
D	DRAWER	OPP	OPPOSITE
DN	DOWN	F	PAINT
DS	DOWN SPOUT	PT	PAPER TOWEL
EP	EPOXY PAINT	SC	SEALED CONCRETE
EUC	ELECTRIC WATER COOLER	SM	SIMILAR
EX	EXISTING	SS	STAINLESS STEEL
EJ	EXPANSION JOINT	TB	TOWEL BAR
FE	FIRE EXTINGUISHER	TYP	TYPICAL
FF	FINISH FLOOR	T.P.	TOILET PAPER
FG	FULL GLASS	U.ON.	UNLESS OTHERWISE NOTED
FD	FLOOR DRAIN	V	VINYL (SHEET)
GYP	GYPSUM	V.P.	VINYL FLANK
GYP BD	GYPSUM BOARD	VCT	VINYL COMPOSITION TILE
L	LINEN CLOSET	WD	WOOD
LAV	LAVATORY	W/H	WATER HEATER
LVR	LOUVER		

R27 ABBREVIATIONS



Y27 BUILDING SIGNAGE

Jill B. Smith Architect, PA
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info@jillsmitharchitect.com



Permit Set

Meredith Square Phase 3 Apartments
BUJES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

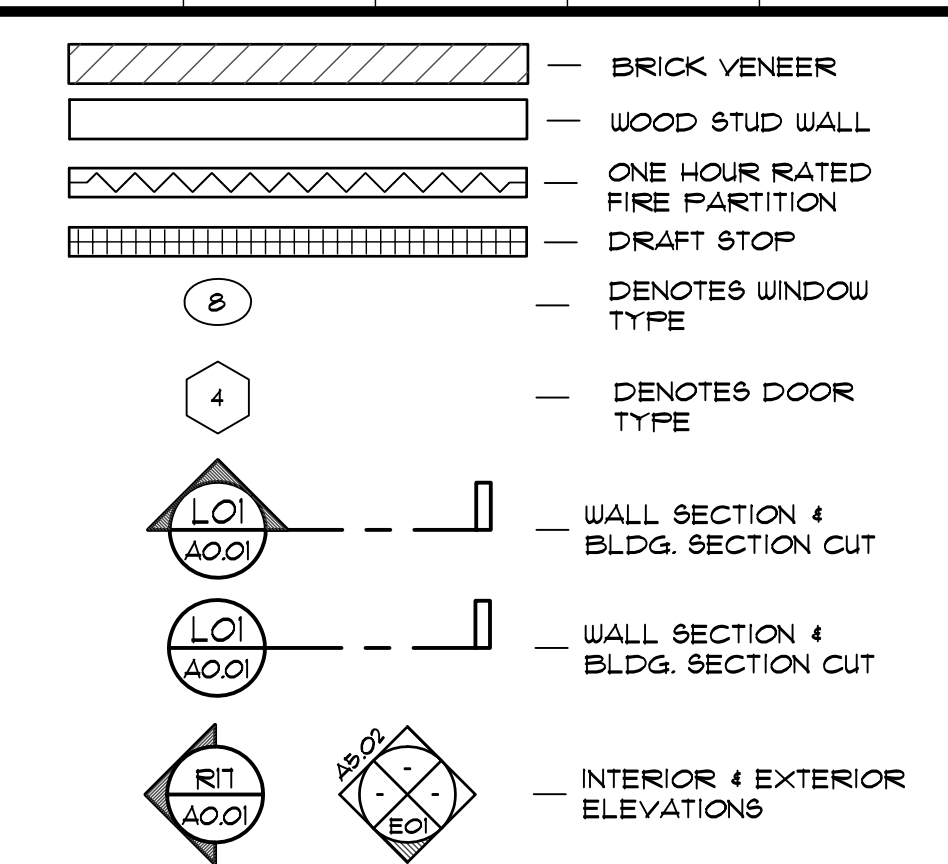
PROJECT NO: 181701
DMC NO: A001
DRAWN BY: JS
DATE 10/25/2018

REVISIONS

Notes, Door & Window Elevations & Signage

A0.01

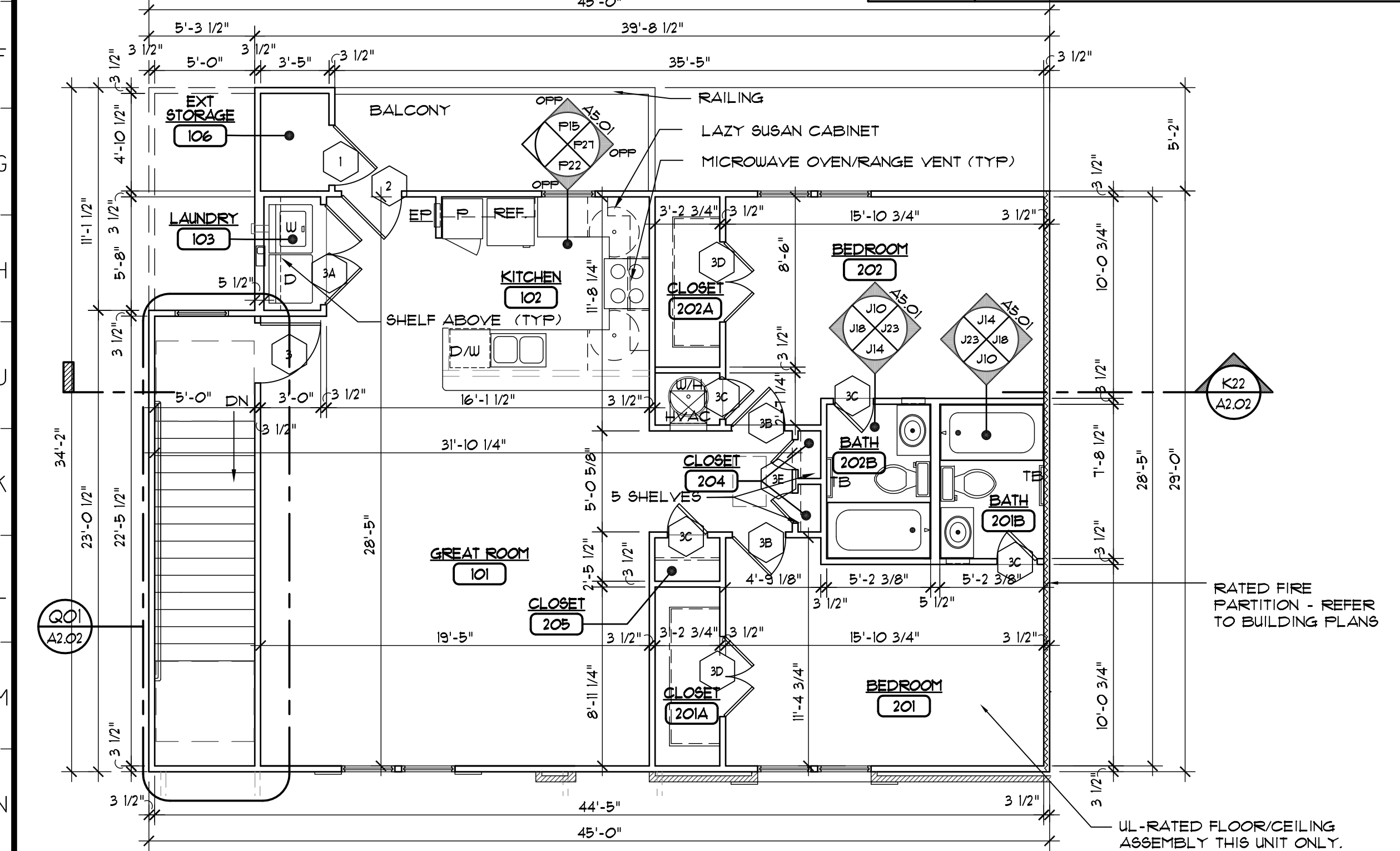
NO.	ROOM NAME	FLOOR	BASE	TRIM	WALLS	CEILING	REMARKS
101	GREAT ROOM	LVP	PT	-	GB - FT	GB-PT	
102	KITCHEN	LVP	PT	-	GB - FT	GB-PT	
103	LAUNDRY	LVP	PT	-	GB - FT	GB-PT	
104	POWDER ROOM	LVP	PT	-	GB - FT	GB-PT	
105	STORAGE	LVP	PT	-	GB - FT	GB-PT	
106	EXTERIOR STOR	SC	PT	-	GB - FT	GB-PT	
201	OWNER STORAGE	SC	PT	-	GB - FT	GB-PT	
201	BEDROOM	CARPET	PT	-	GB - FT	GB-PT	
201A	CLOSET	"	PT	-	GB - FT	GB-PT	** MATCH ADJACENT ROOM
201B	BATH ROOM	LVP	PT	-	GB - FT	GB-PT	
201C	CLOSET	"	PT	-	GB - FT	GB-PT	** MATCH ADJACENT ROOM
202	BEDROOM	CARPET	PT	-	GB - FT	GB-PT	
202A	CLOSET	"	PT	-	GB - FT	GB-PT	** MATCH ADJACENT ROOM
202B	BATH ROOM	LVP	PT	-	GB - FT	GB-PT	
203	HALL	CARPET	PT	-	GB - FT	GB-PT	
204	CLOSET	LVP	PT	-	GB - FT	GB-PT	
205	CLOSET	LVP	PT	-	GB - FT	GB-PT	



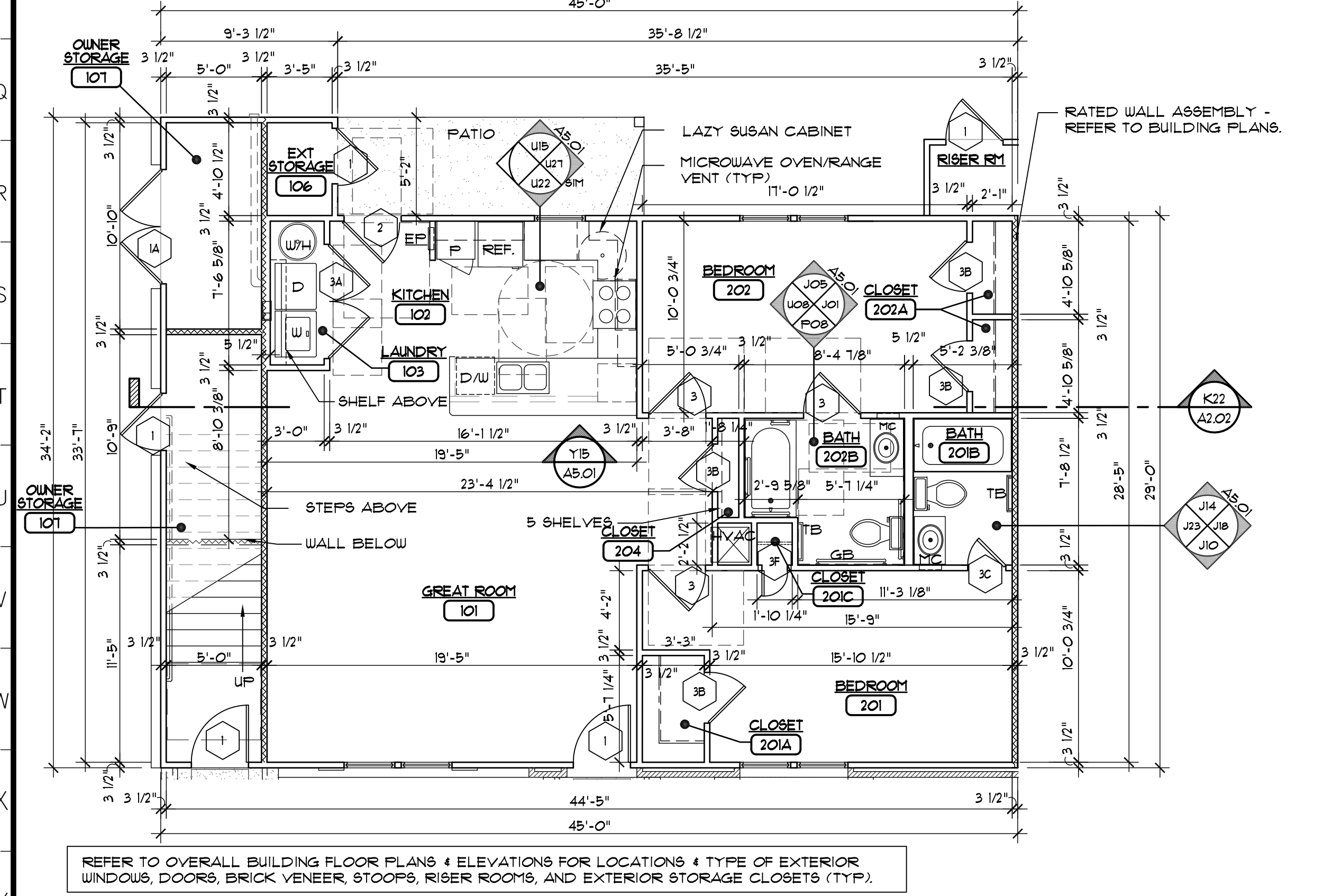
D01 Room Finish Schedule

REFER TO OVERALL BUILDING FLOOR PLANS & ELEVATIONS FOR LOCATIONS & TYPE OF EXTERIOR WINDOWS, DOORS, BRICK VENEER, STOOPS, RISER ROOMS, AND EXTERIOR STORAGE CLOSETS (TYP).

E09 Notes & Legend

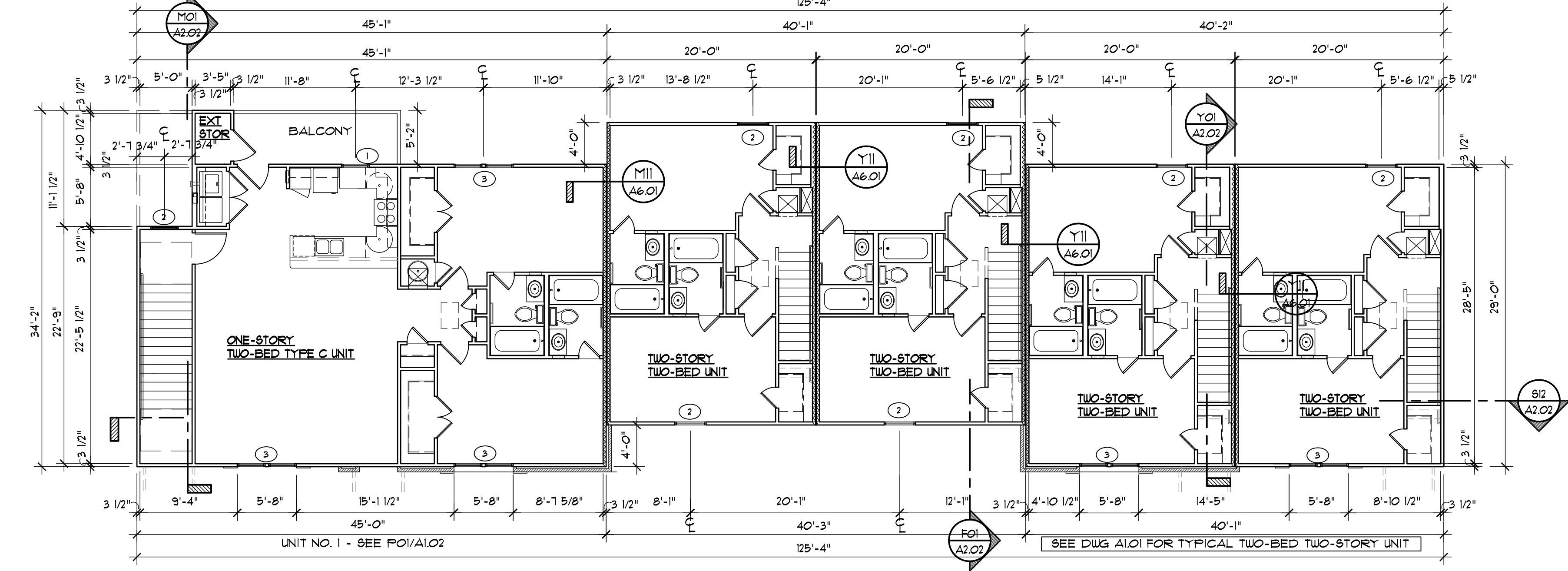


P01 Two-Bed Type C Unit Floor Plan

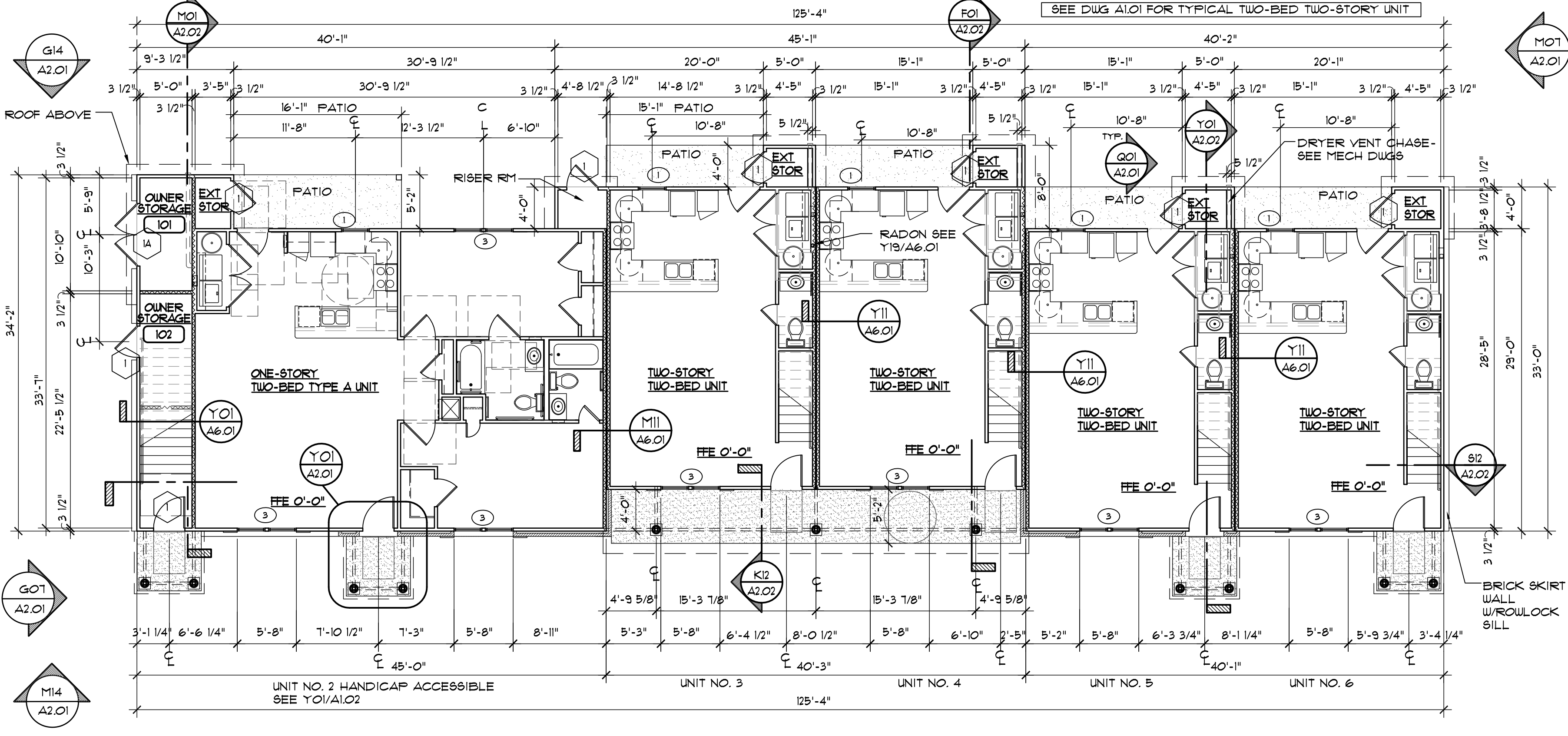


Y01 Two-Bed Type A Unit Lower Level Floor Plan

F14 Building Type 2 Roof Plan

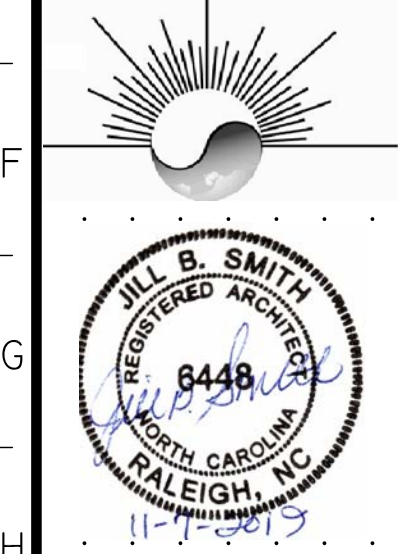


P14 Building Type 2 Upper Level Floor Plan



Y14 Building Type 2 Lower Level Floor Plan

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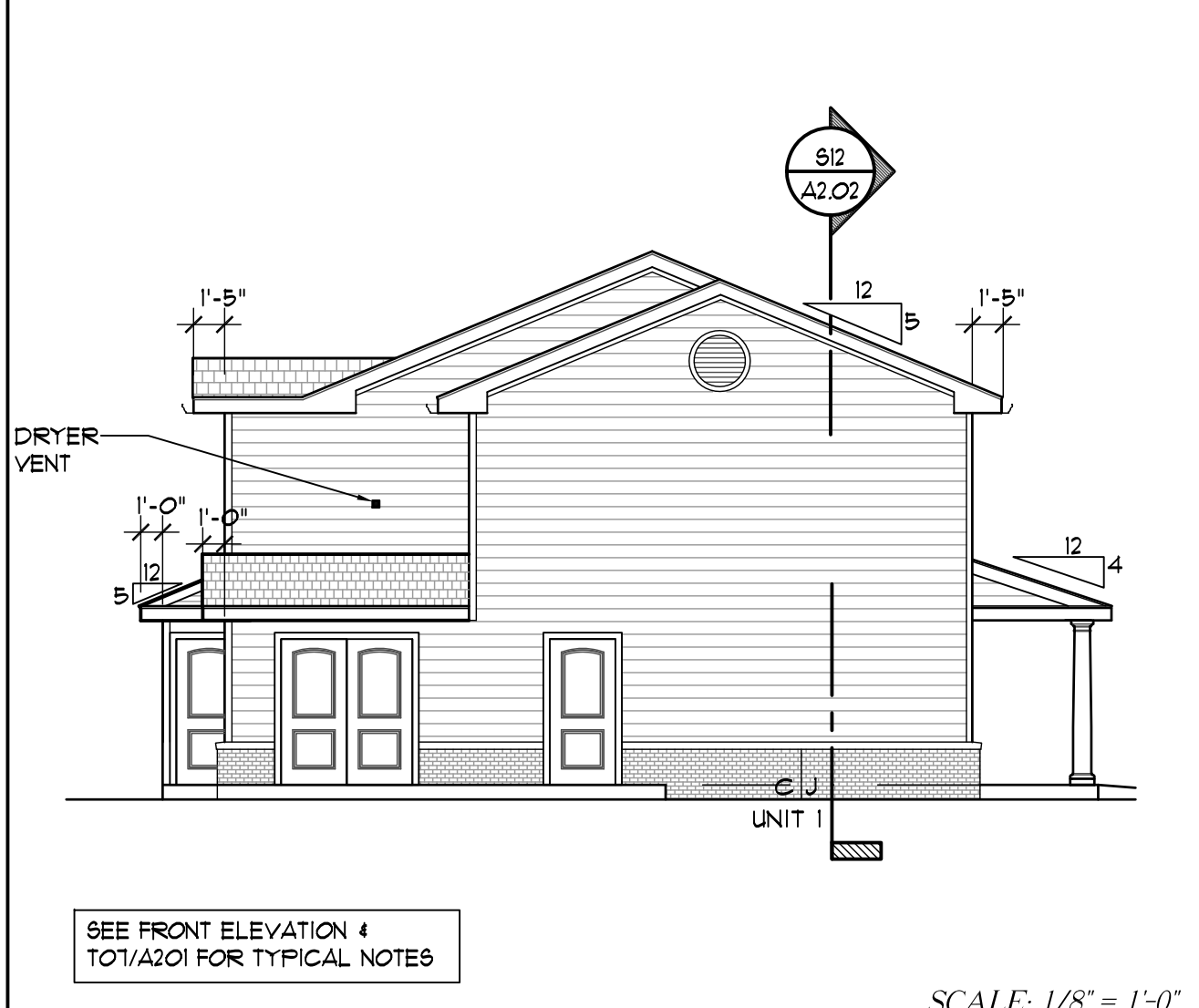
Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO: 181701
 DWG NO: A1.02
 DRAWN BY: JS
 DATE: 02/25/2018

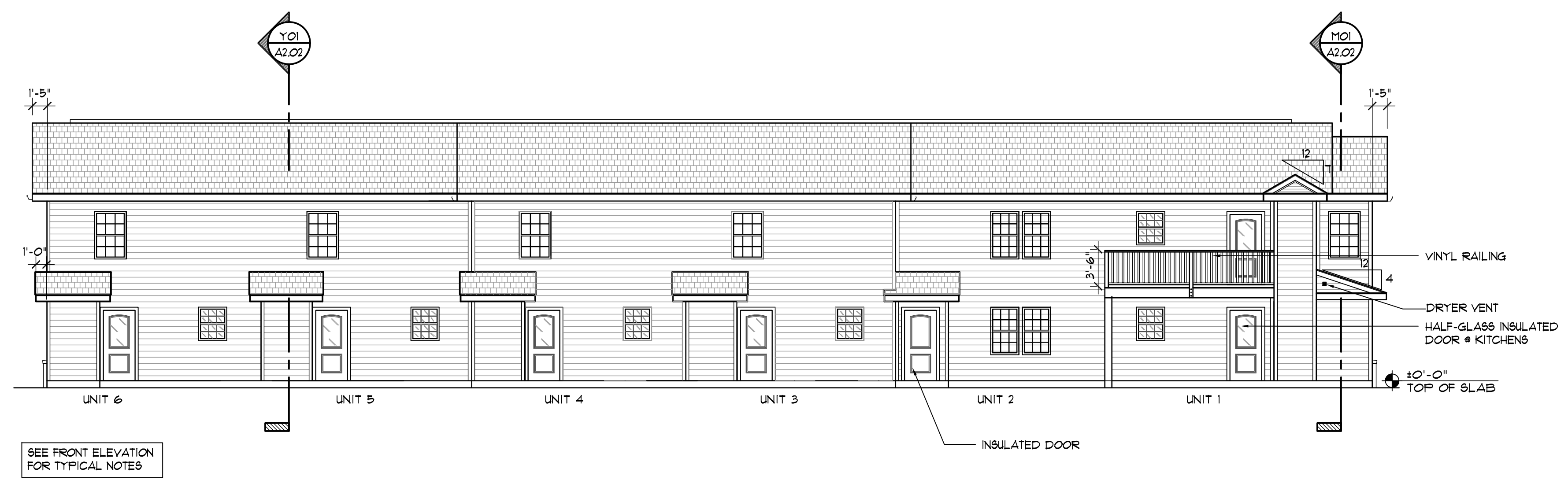
REVISIONS

Type 2
 Building &
 Unit Floor &
 Roof Plans

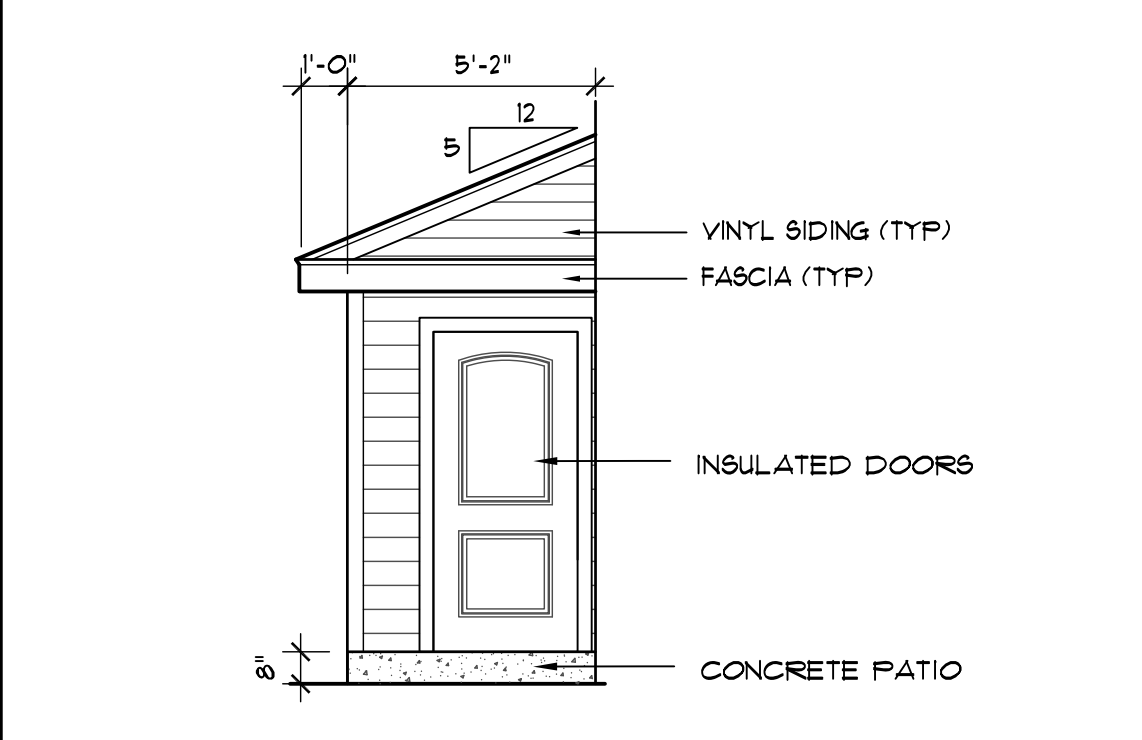
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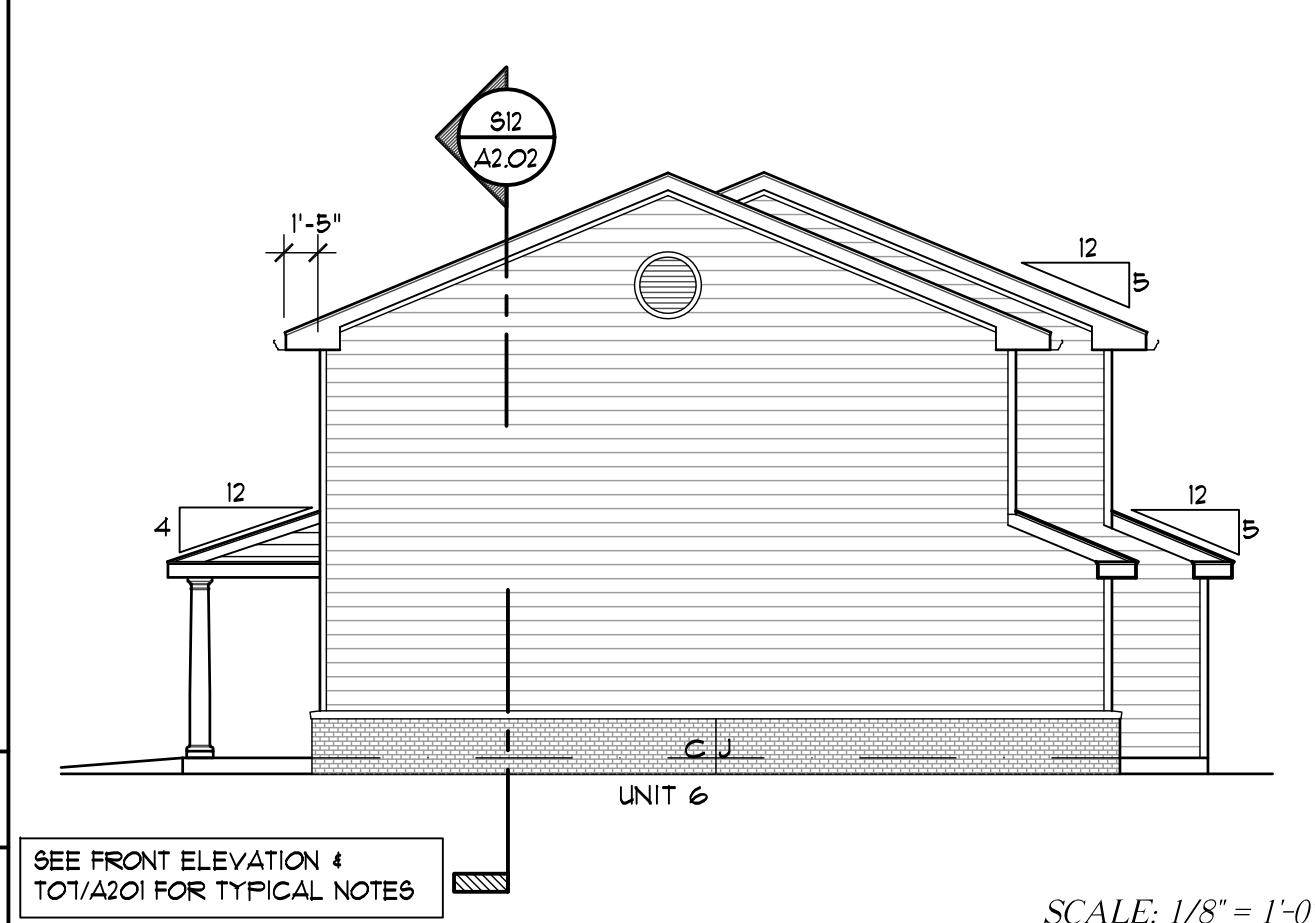
G07 Left Side Elevation Building Type 2



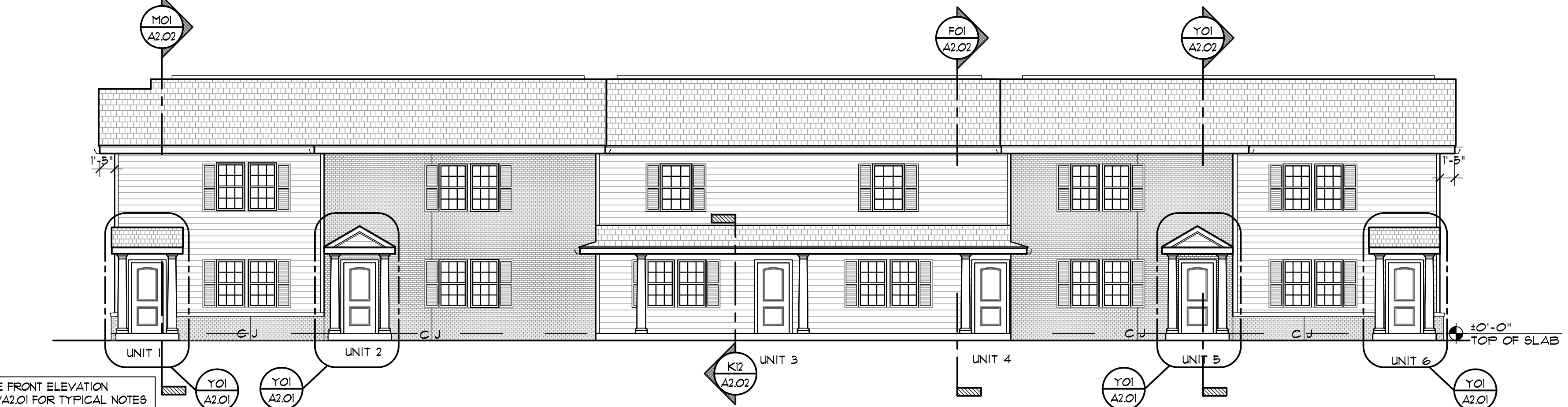
G14 Rear Elevation Building Type 2



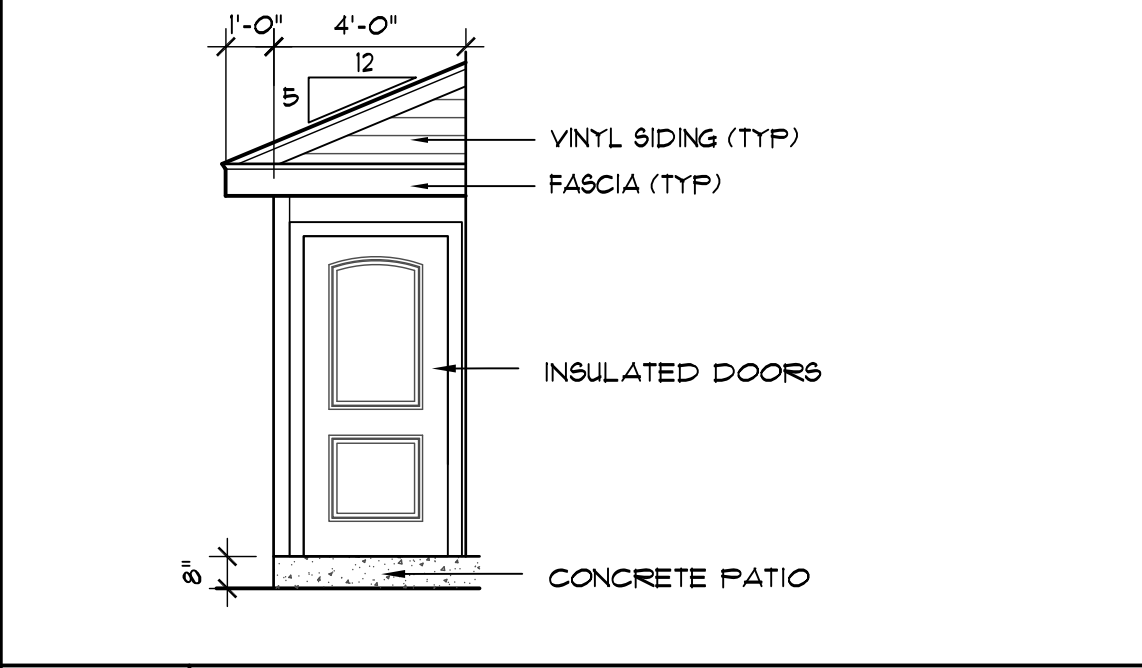
L01 Storage & Riser Rms



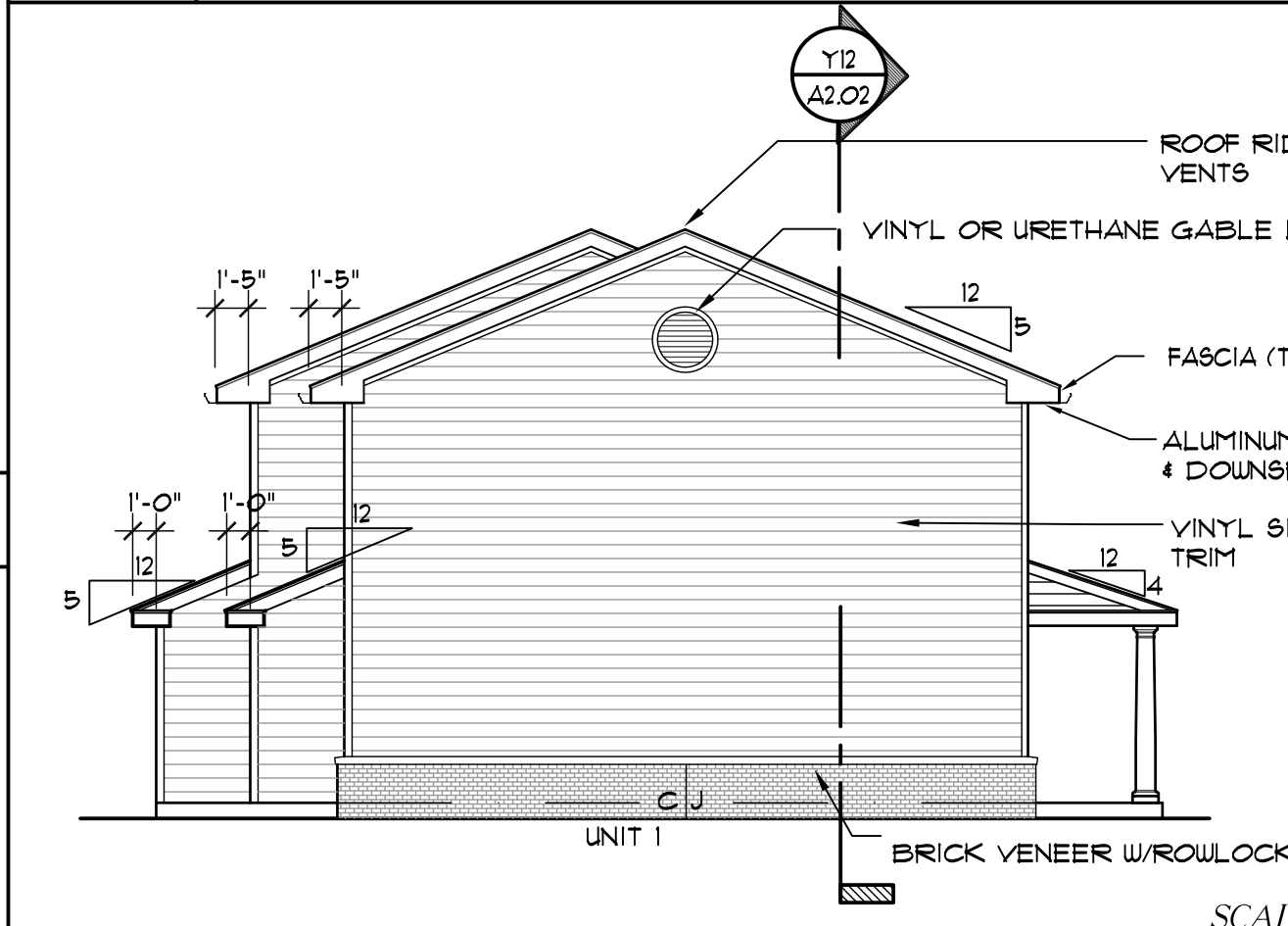
M07 Right Side Elevation Building Type 2



M14 FRONT ELEVATION Building Type 2



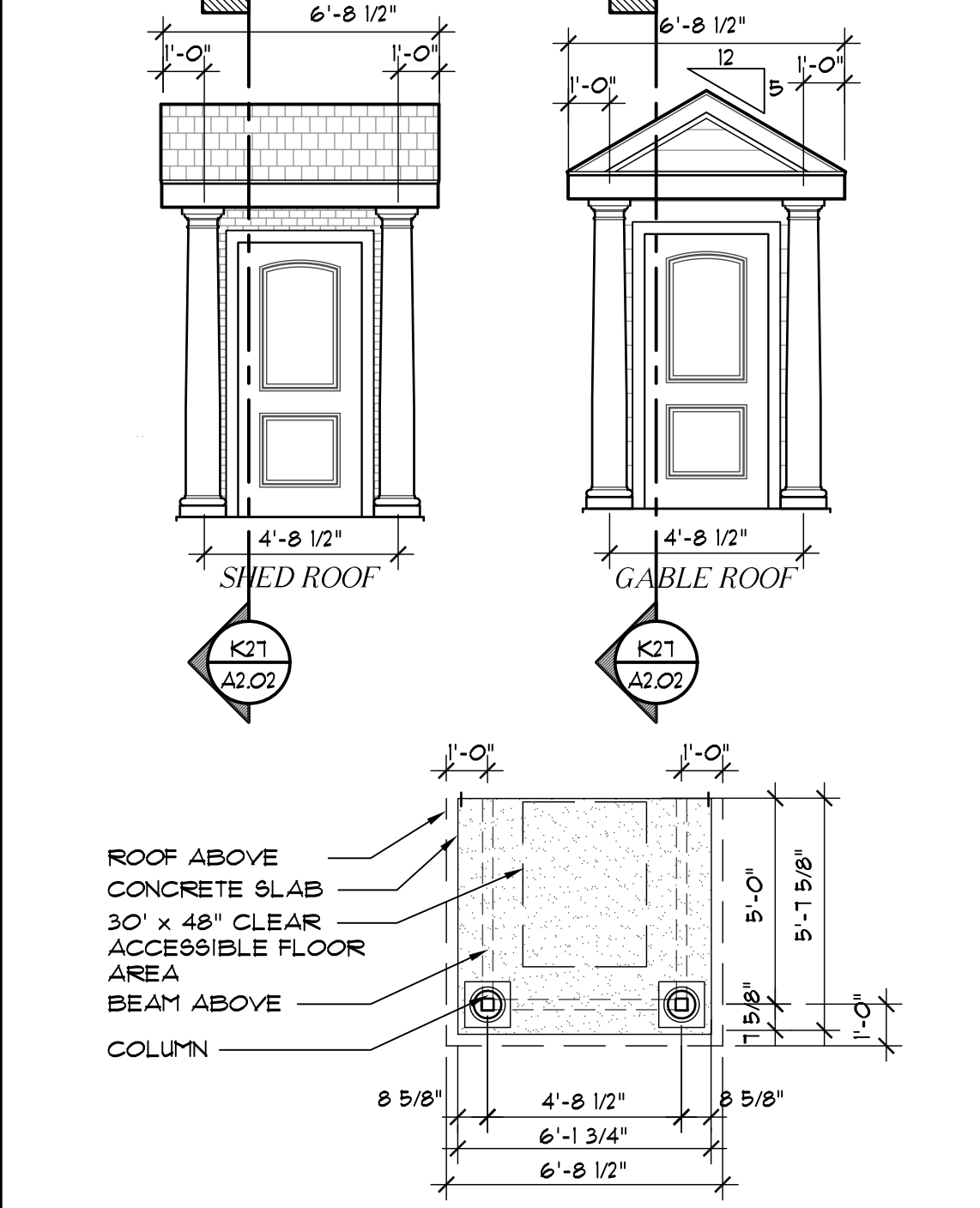
Q01 Storage Rms



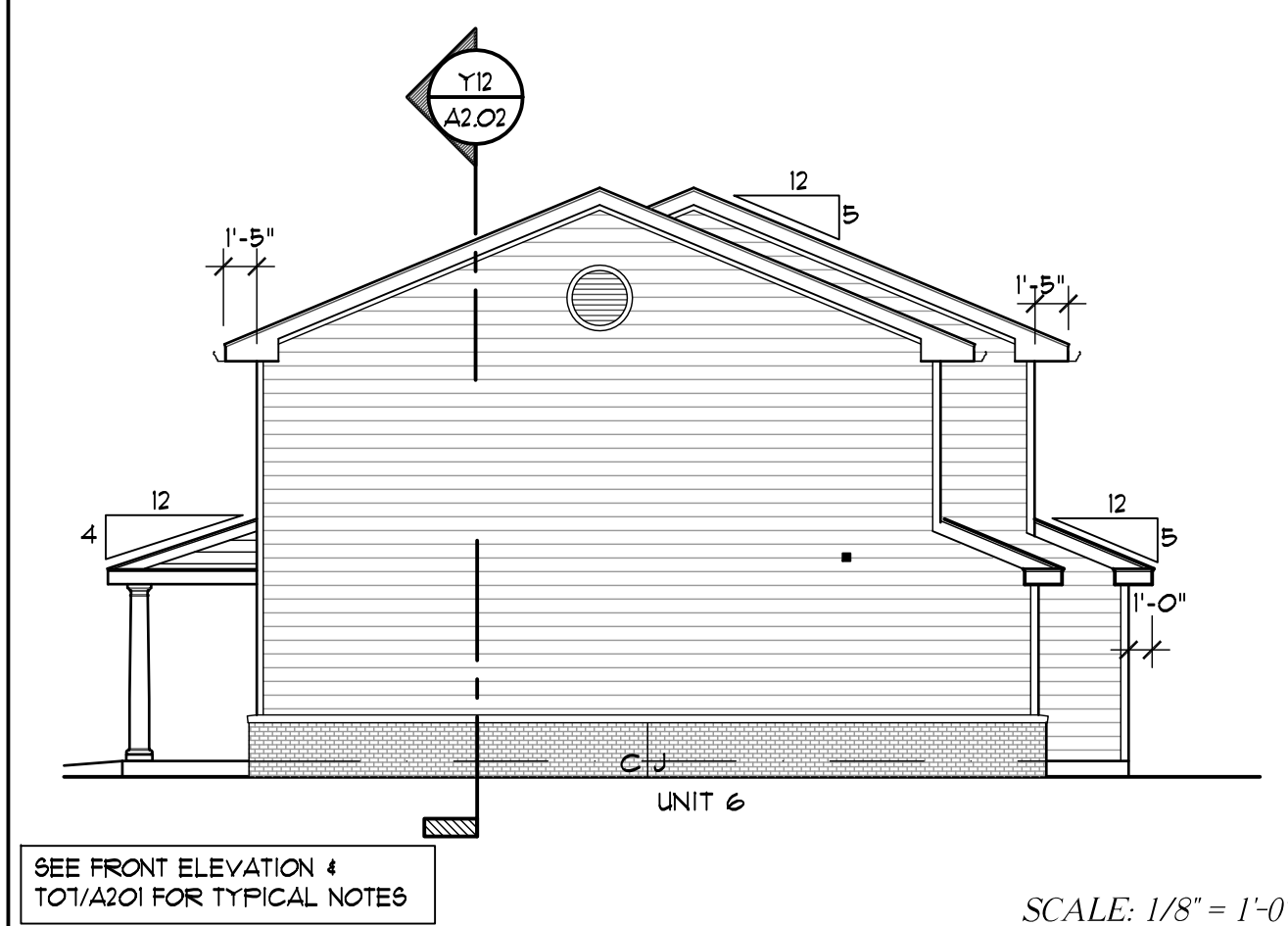
T07 Left Side Elevation Building Type 1



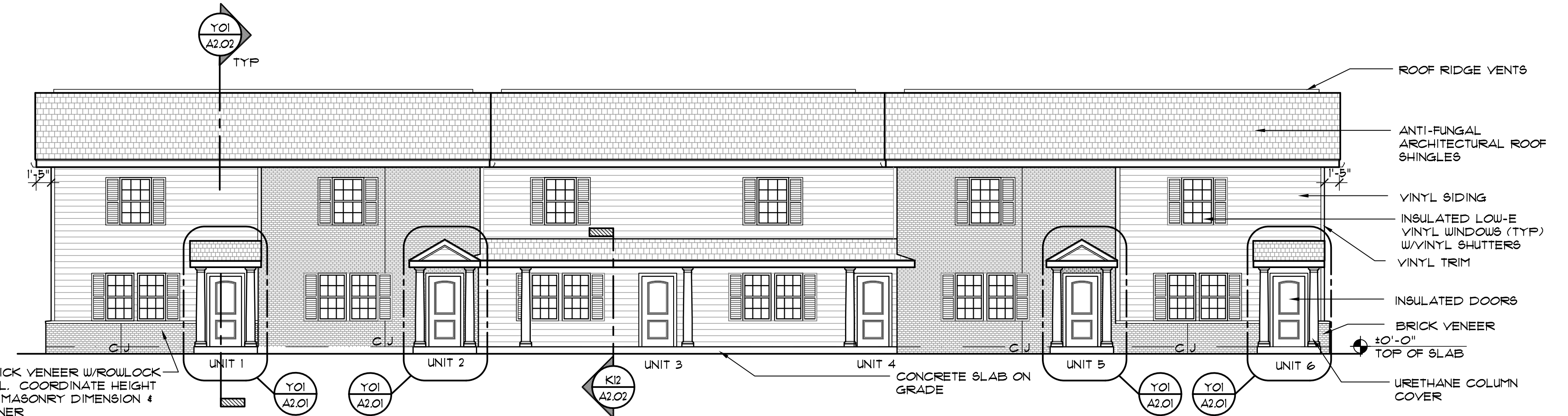
T15 Rear Elevation Building Type 1



Y01 Front Stoops

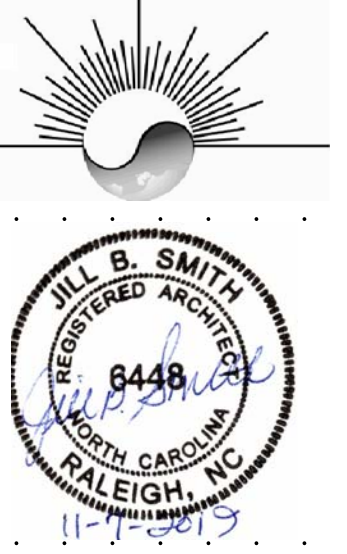


Y07 Right Side Elevation Building Type 1



Y14 Front Elevation Building Type 1

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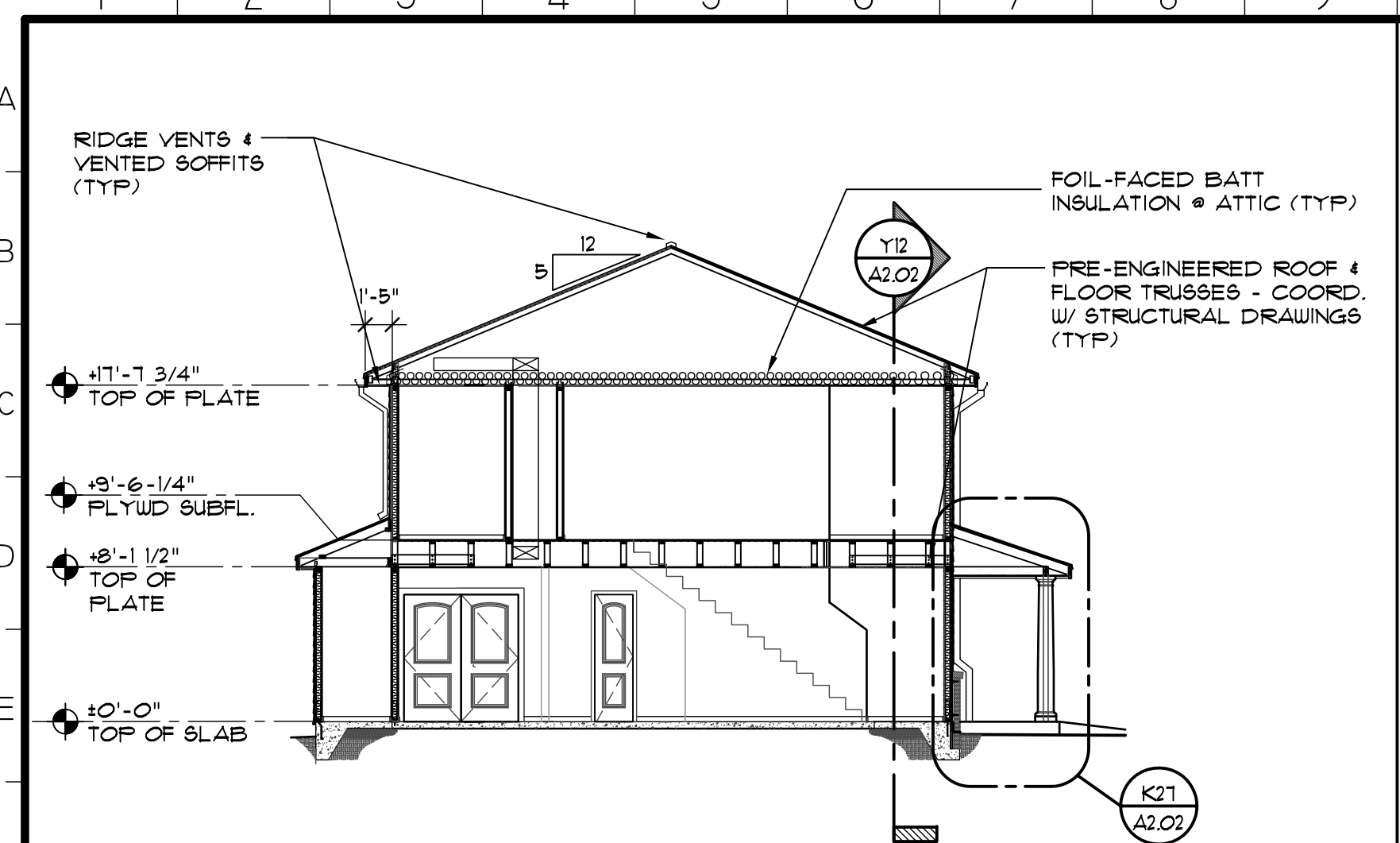
Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO: 181701
 DMC NO: A2.01
 DRAWN BY: JS
 DATE: 02/25/2018

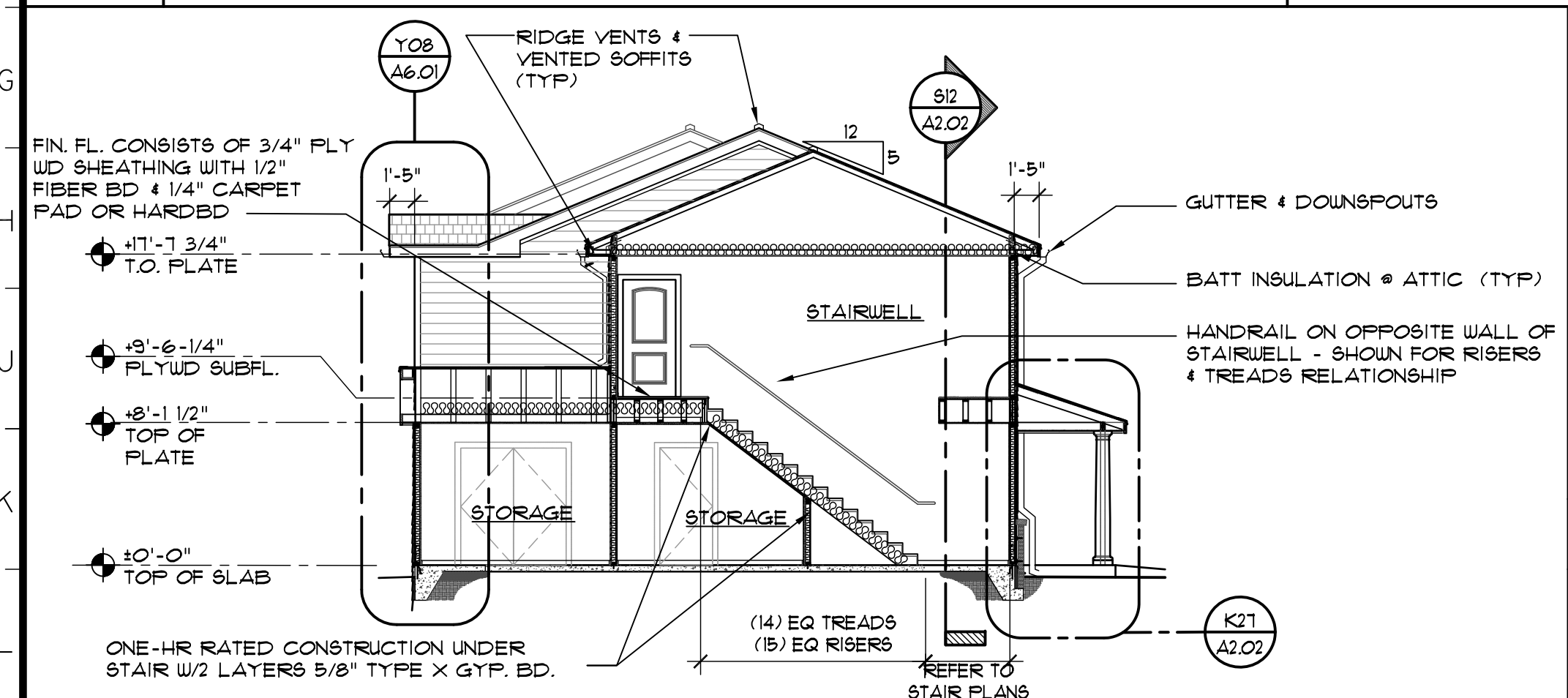
REVISIONS

Building Exterior Elevations

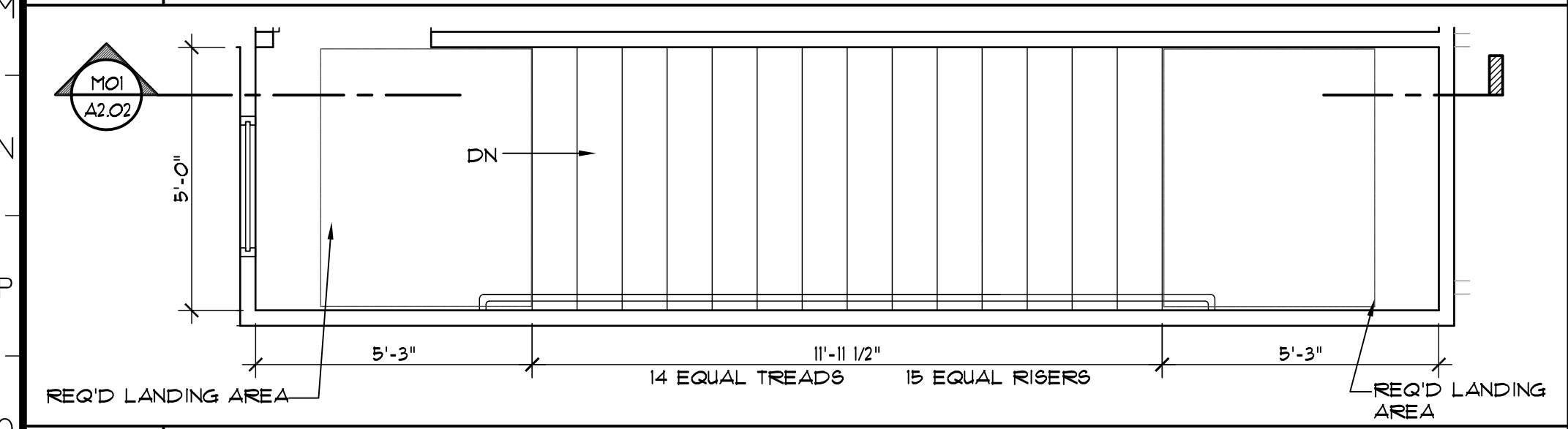
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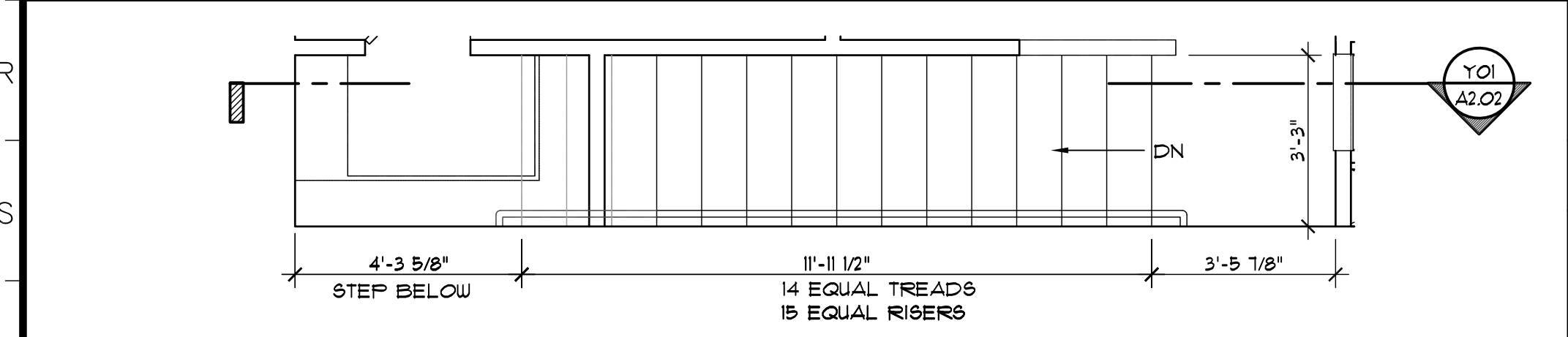
F01 UNIT SECTION Building Types 1 & 2 SCALE: 1/8" = 1'-0"



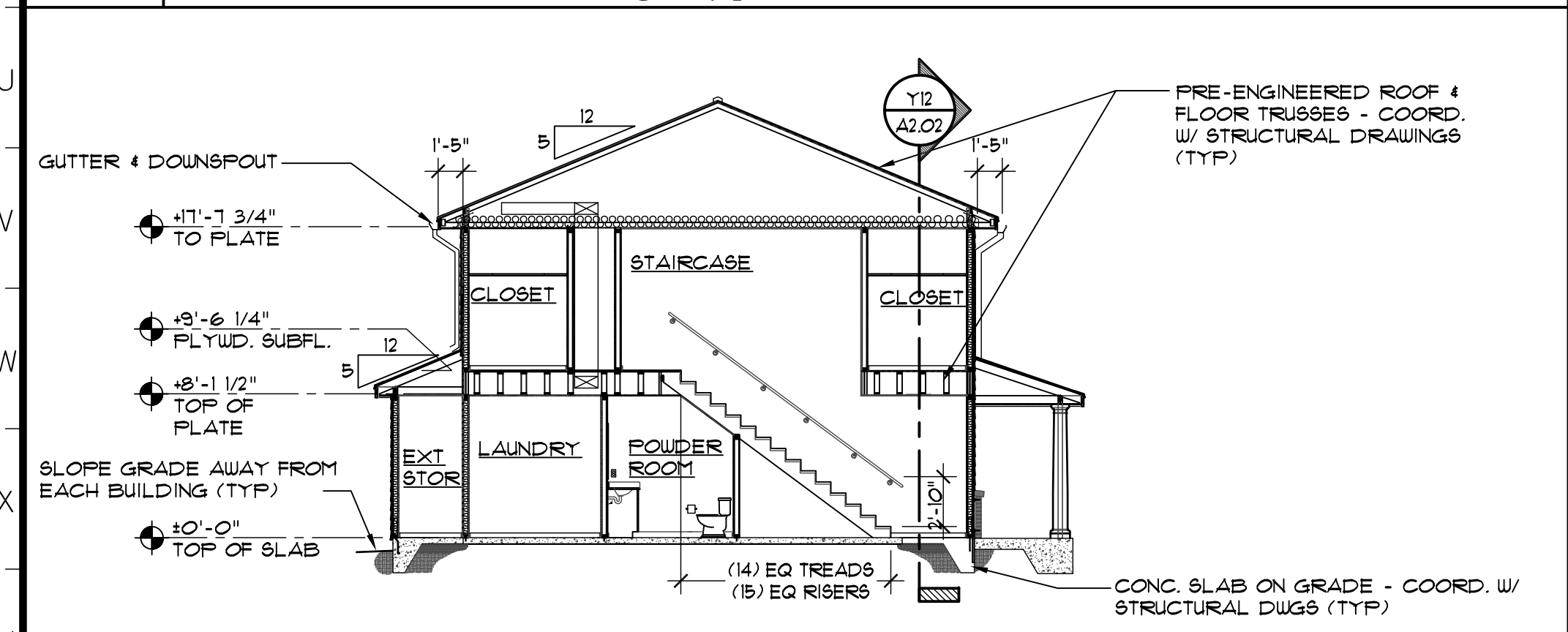
M01 BUILDING SECTION Building Type 2 (ADA) SCALE: 1/8" = 1'-0"



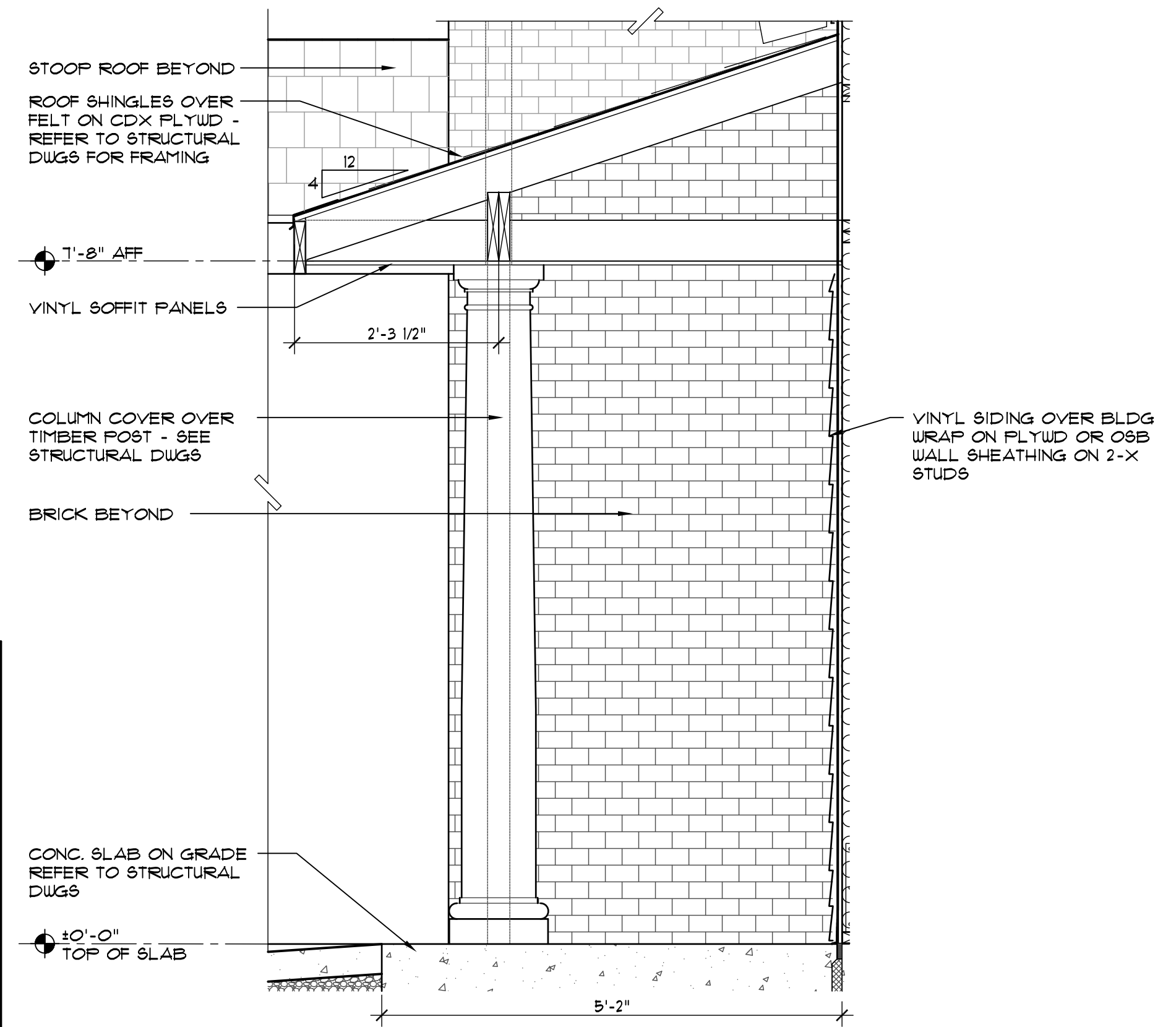
Q01 STAIR PLAN Building Type 2 SCALE: 3/8" = 1'-0"



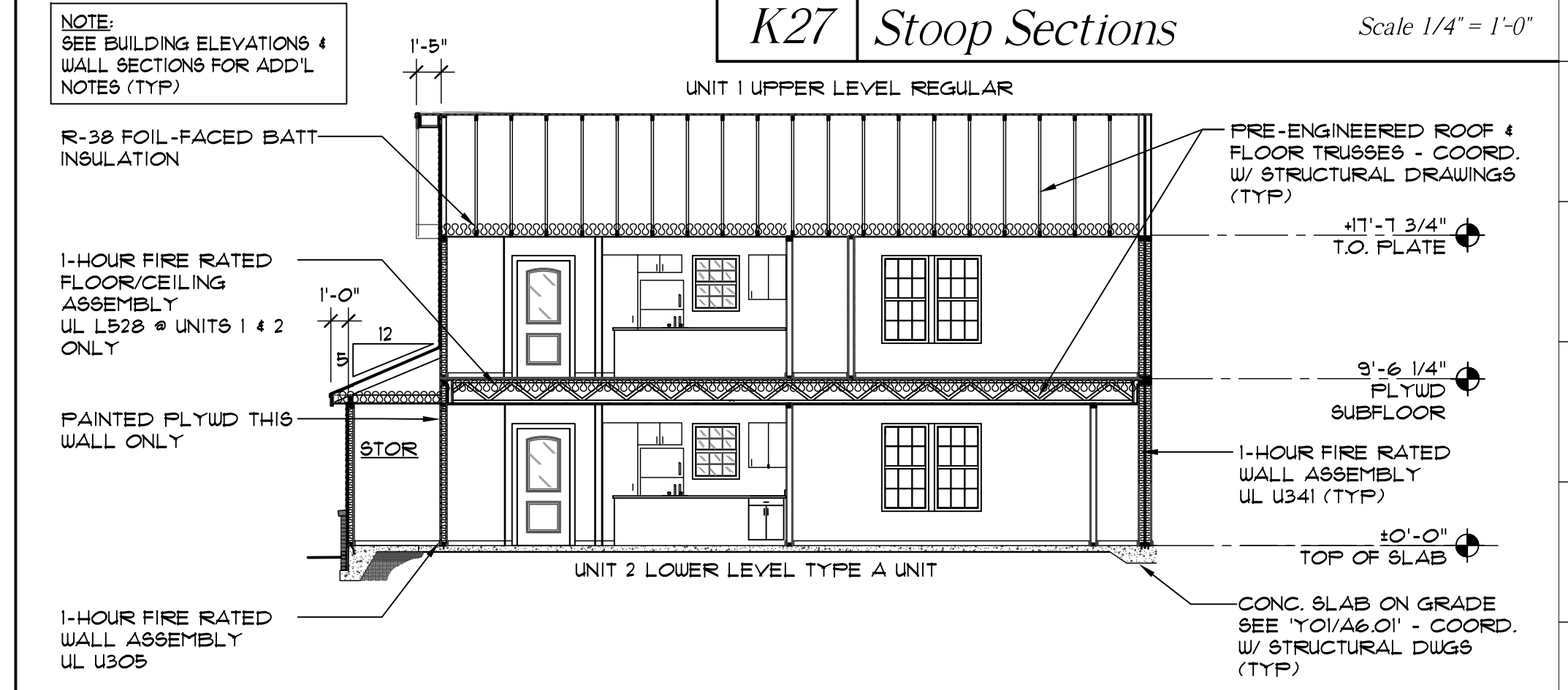
T01 STAIR PLAN Building Type 1 SCALE: 3/8" = 1'-0"



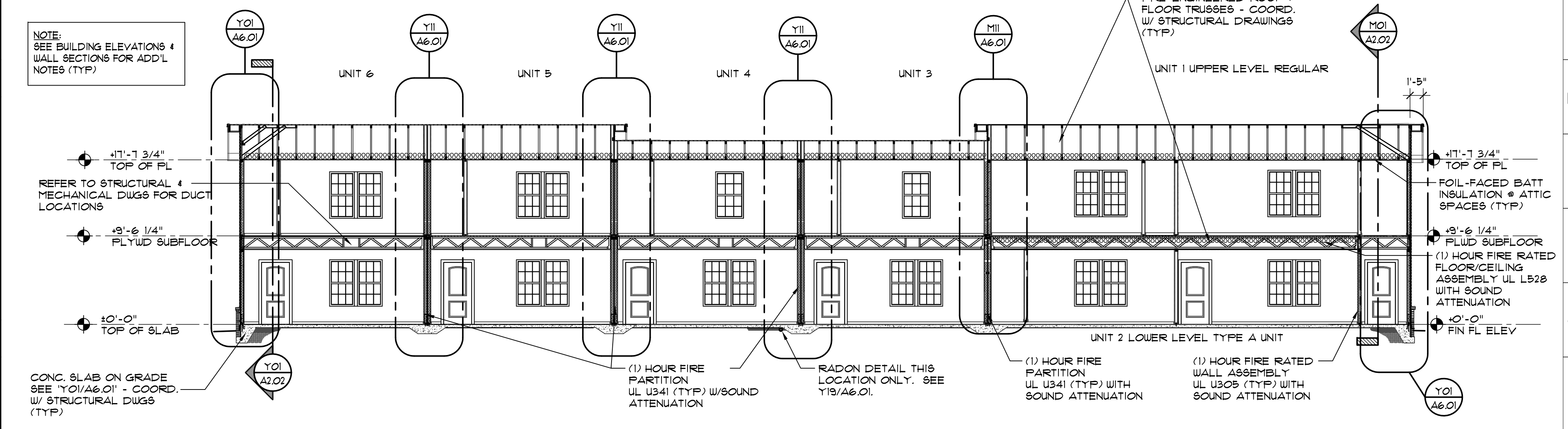
Y01 BUILDING SECTION Building Type 1 SCALE: 1/8" = 1'-0"



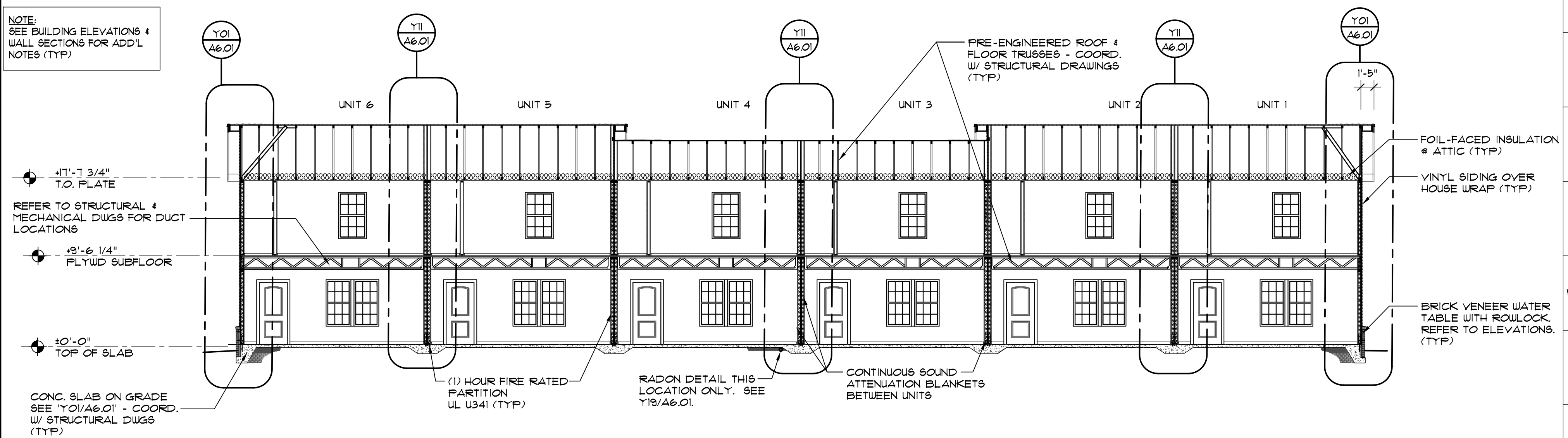
K12 PORCH SECTION SCALE: 3/4" = 1'-0"



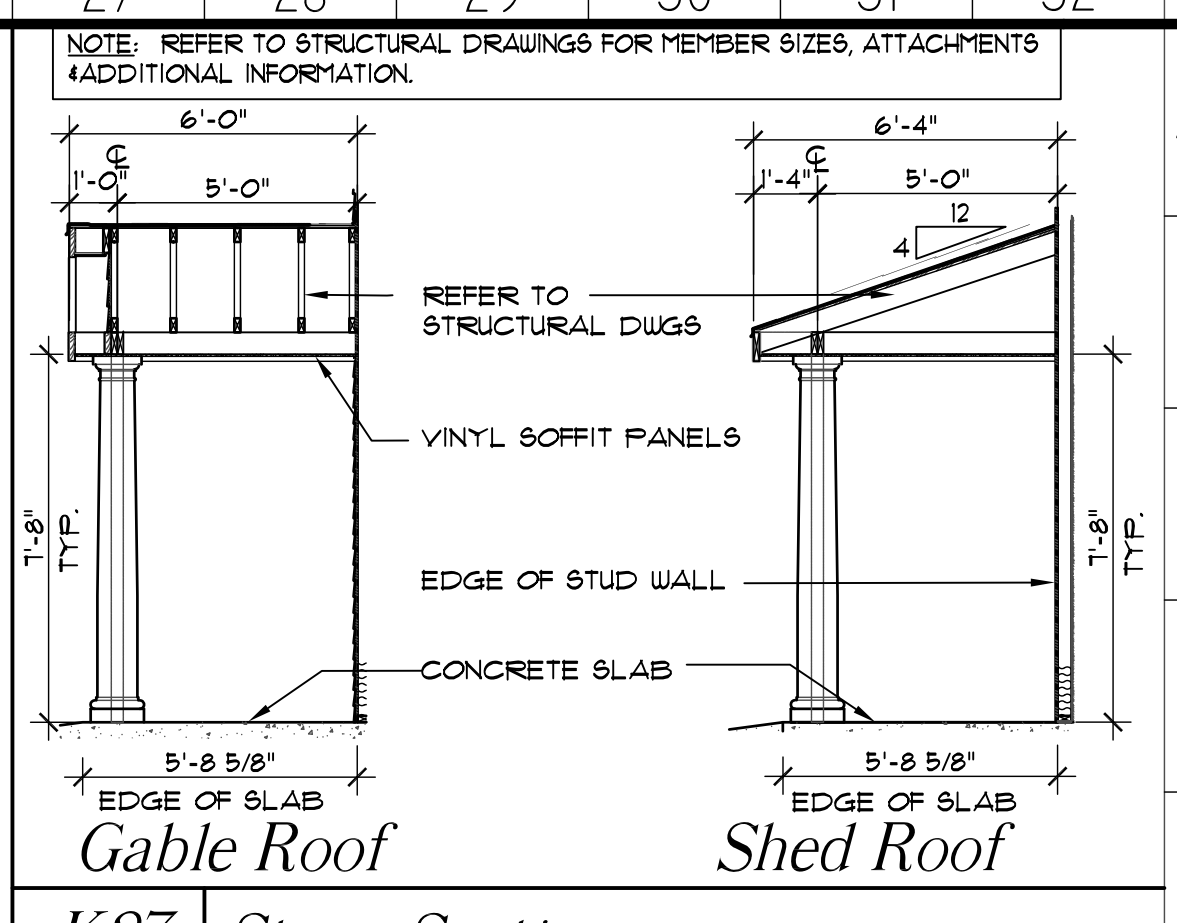
K22 BUILDING SECTION Building Type 2 (ADA) SCALE: 1/8" = 1'-0"



S12 BUILDING SECTION Building Type 2 (ADA) Scale 1/8" = 1'-0"

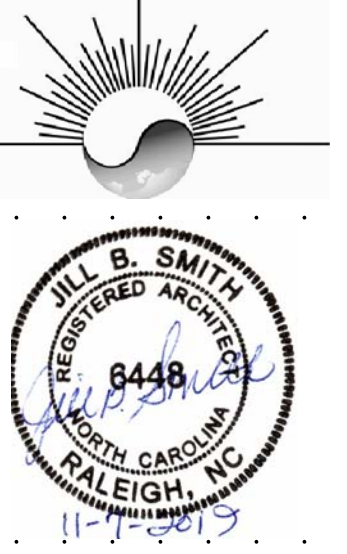


Y12 BUILDING SECTION Building Type 1 (Regular) Scale 1/8" = 1'-0"



K27 Stoop Sections Scale 1/4" = 1'-0"

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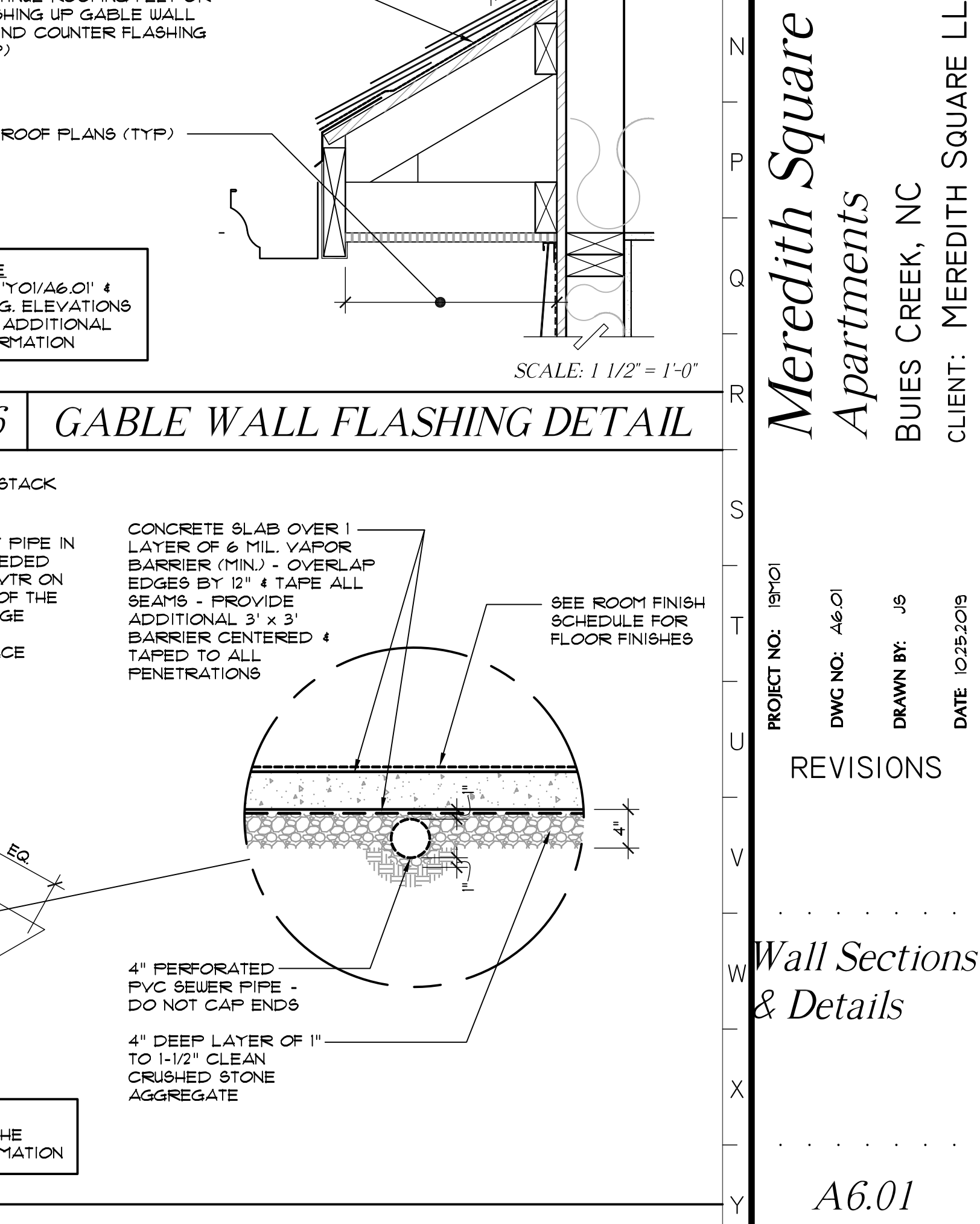
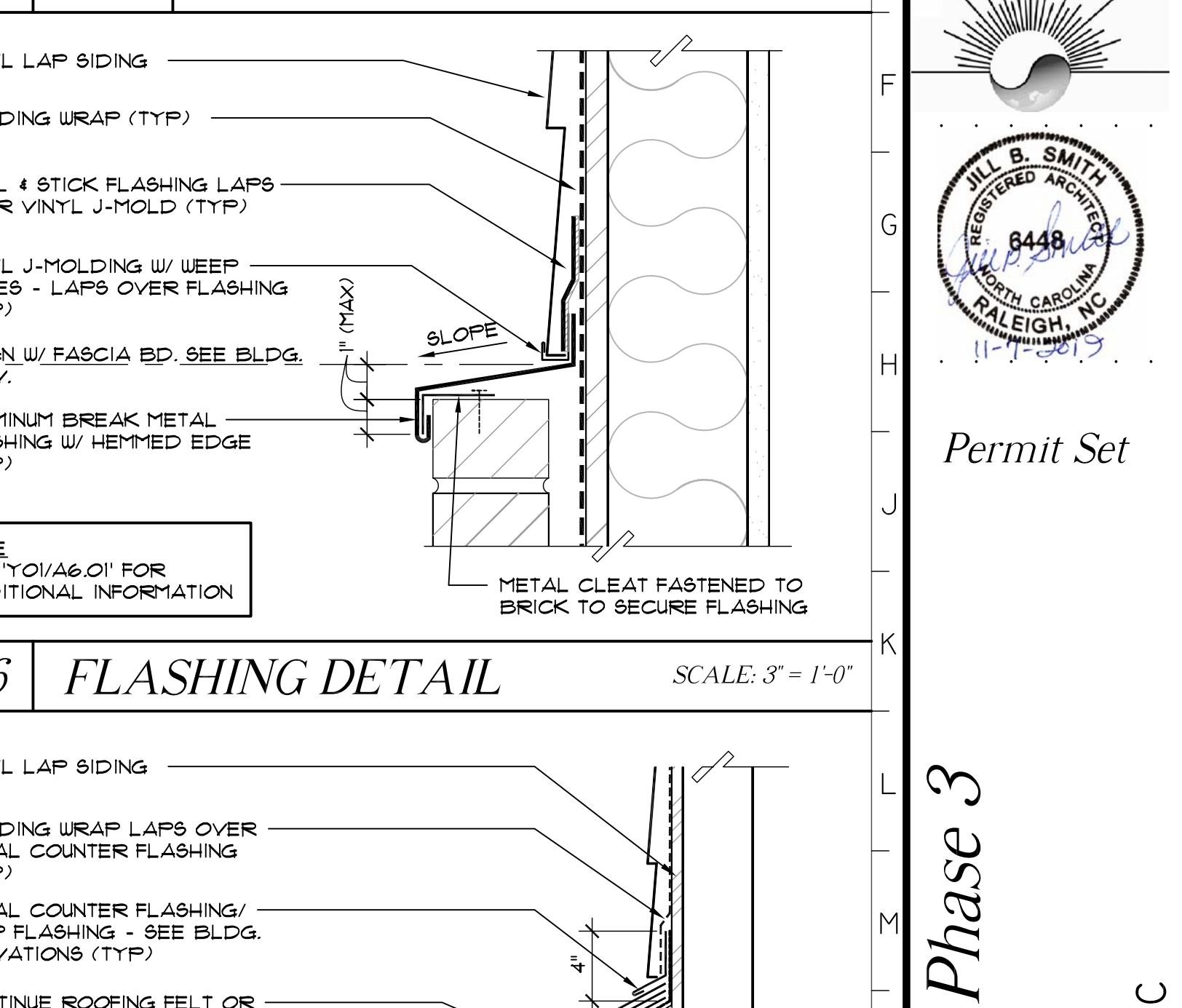
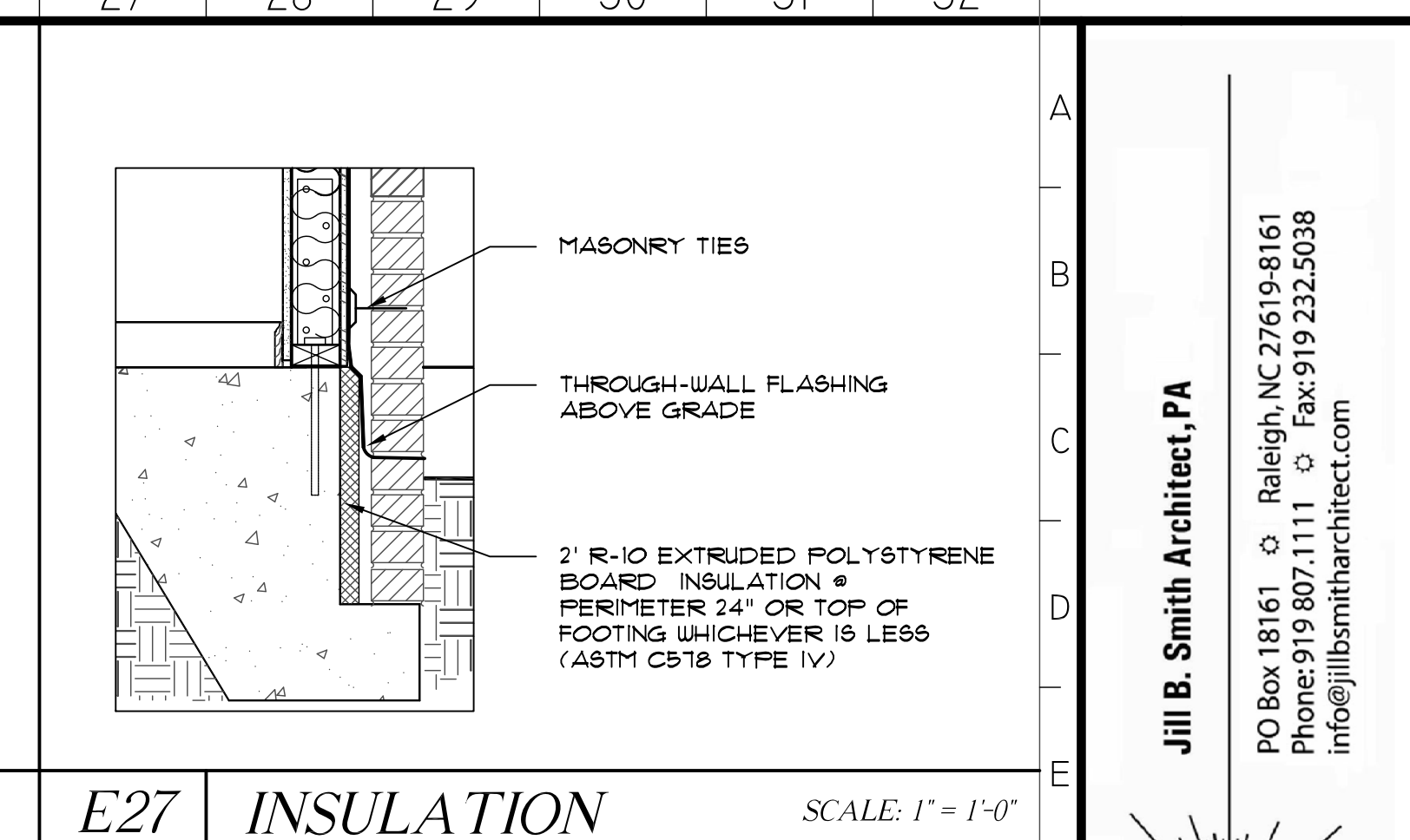
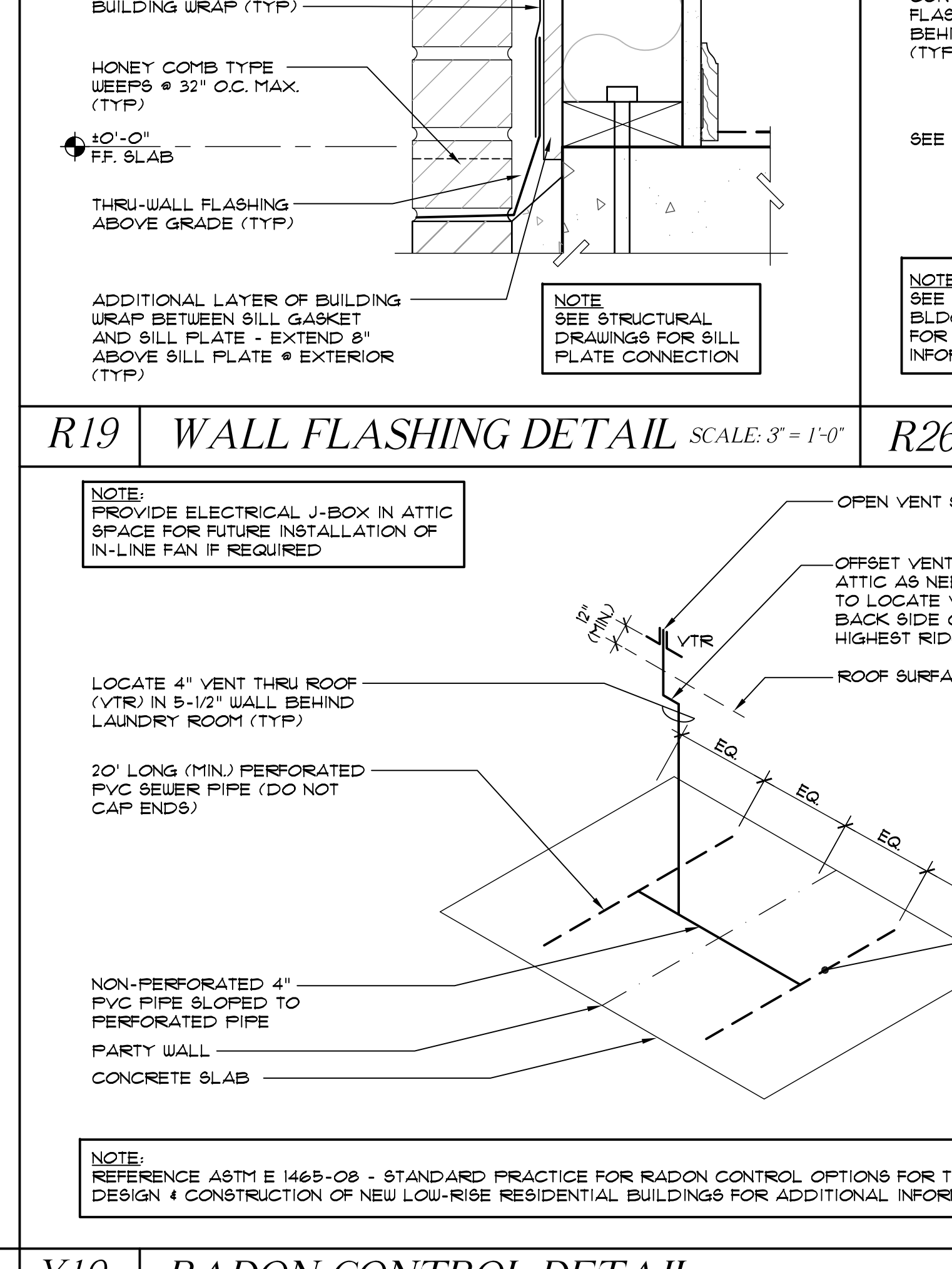
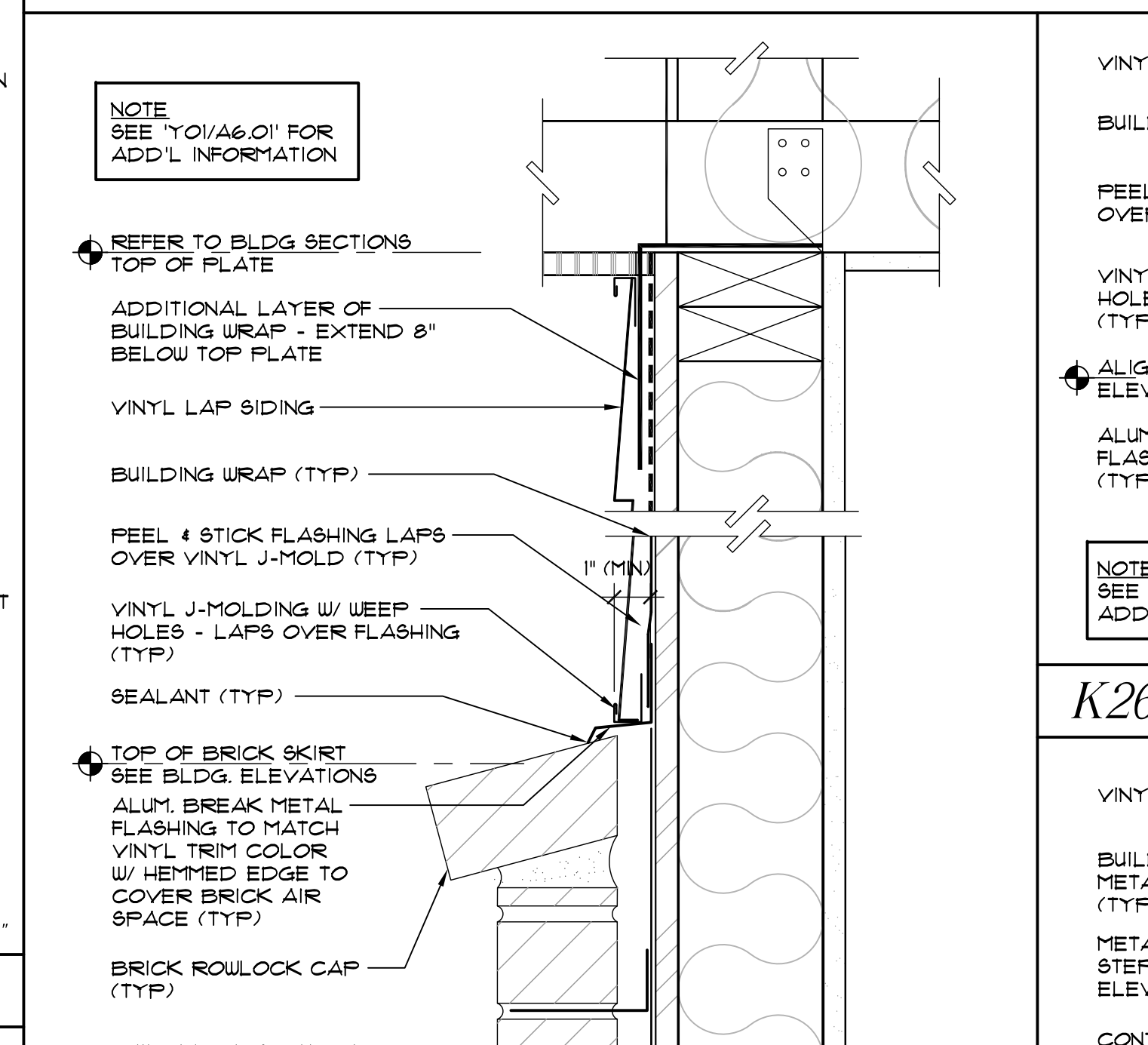
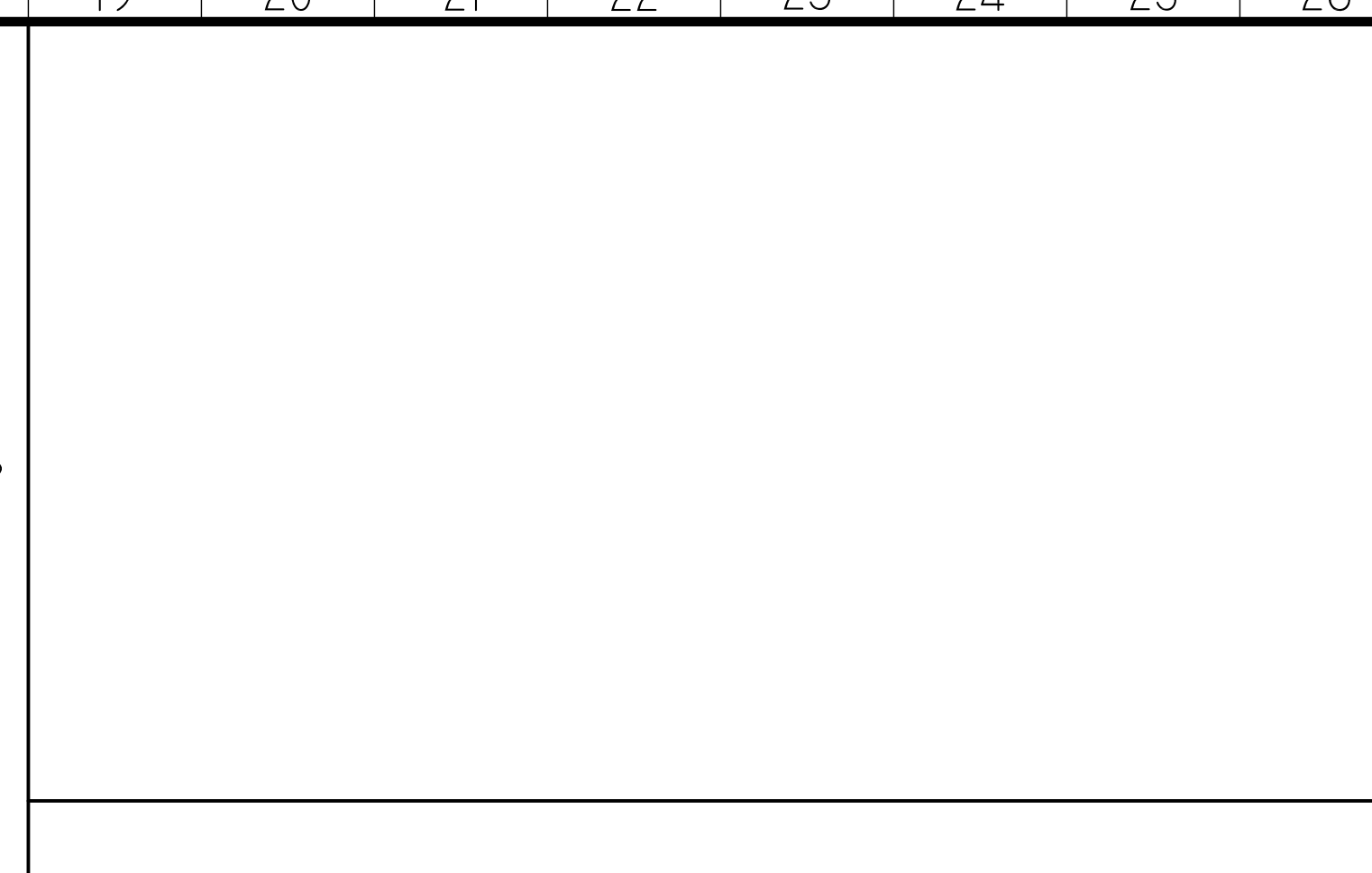
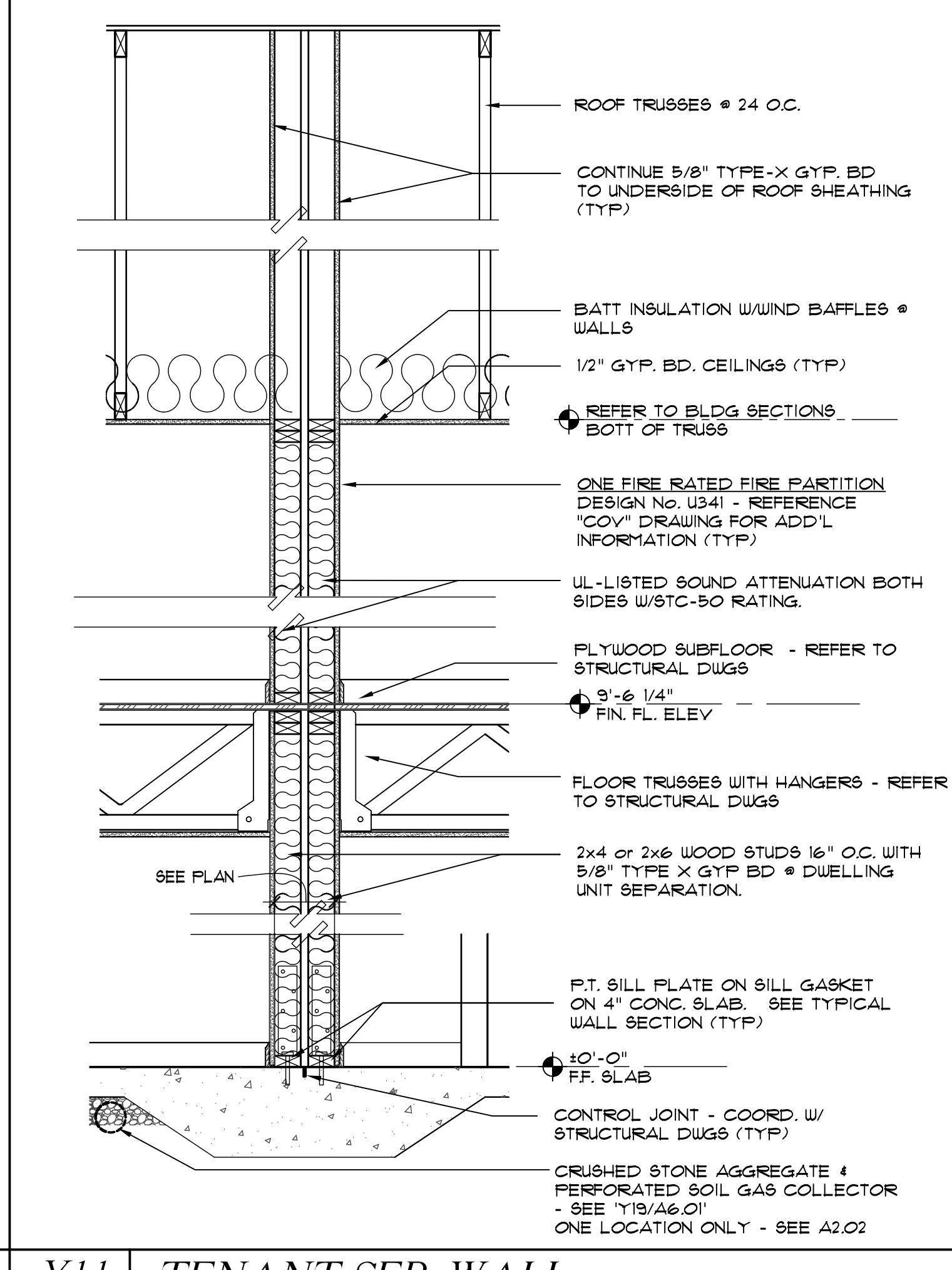
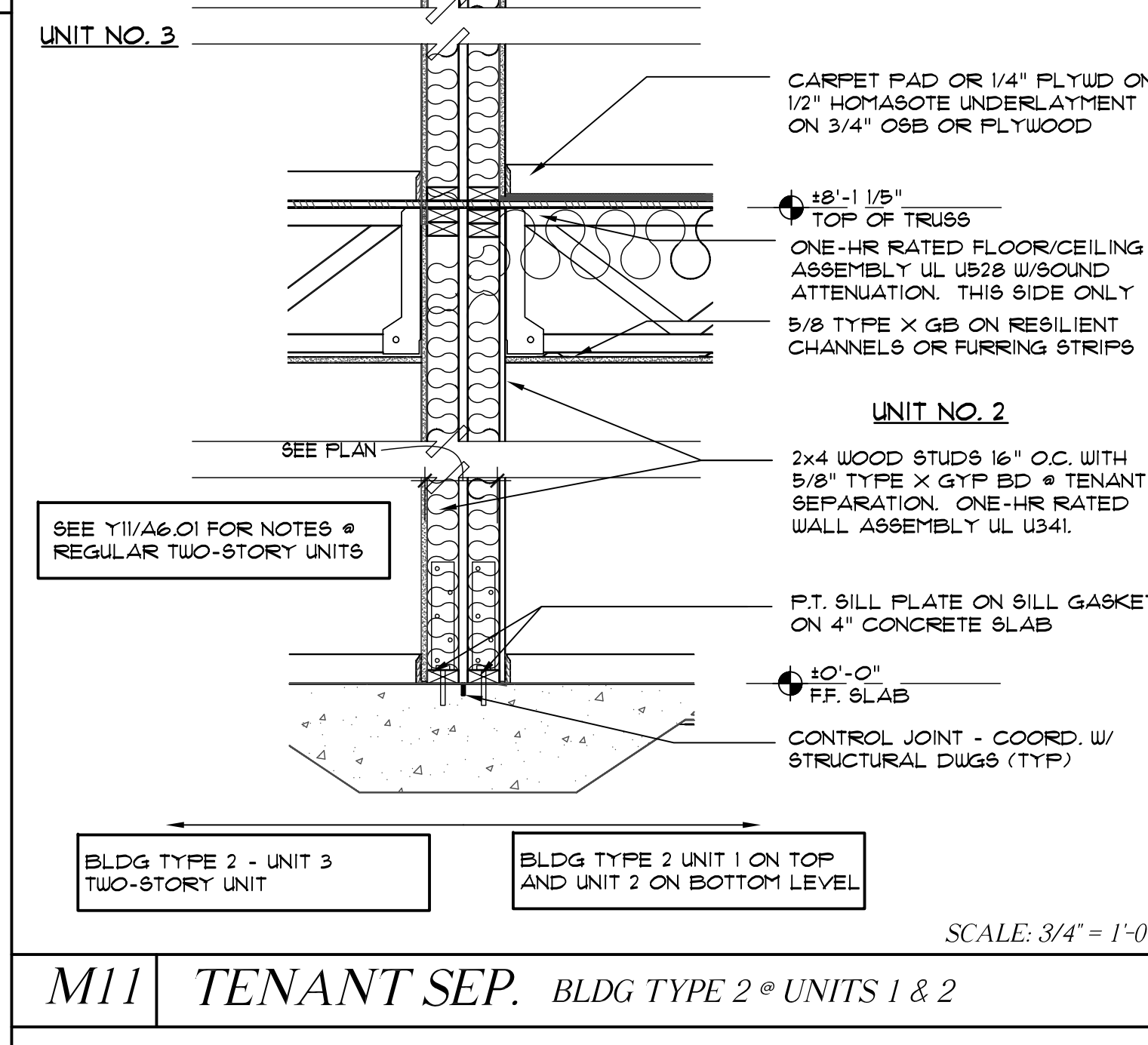
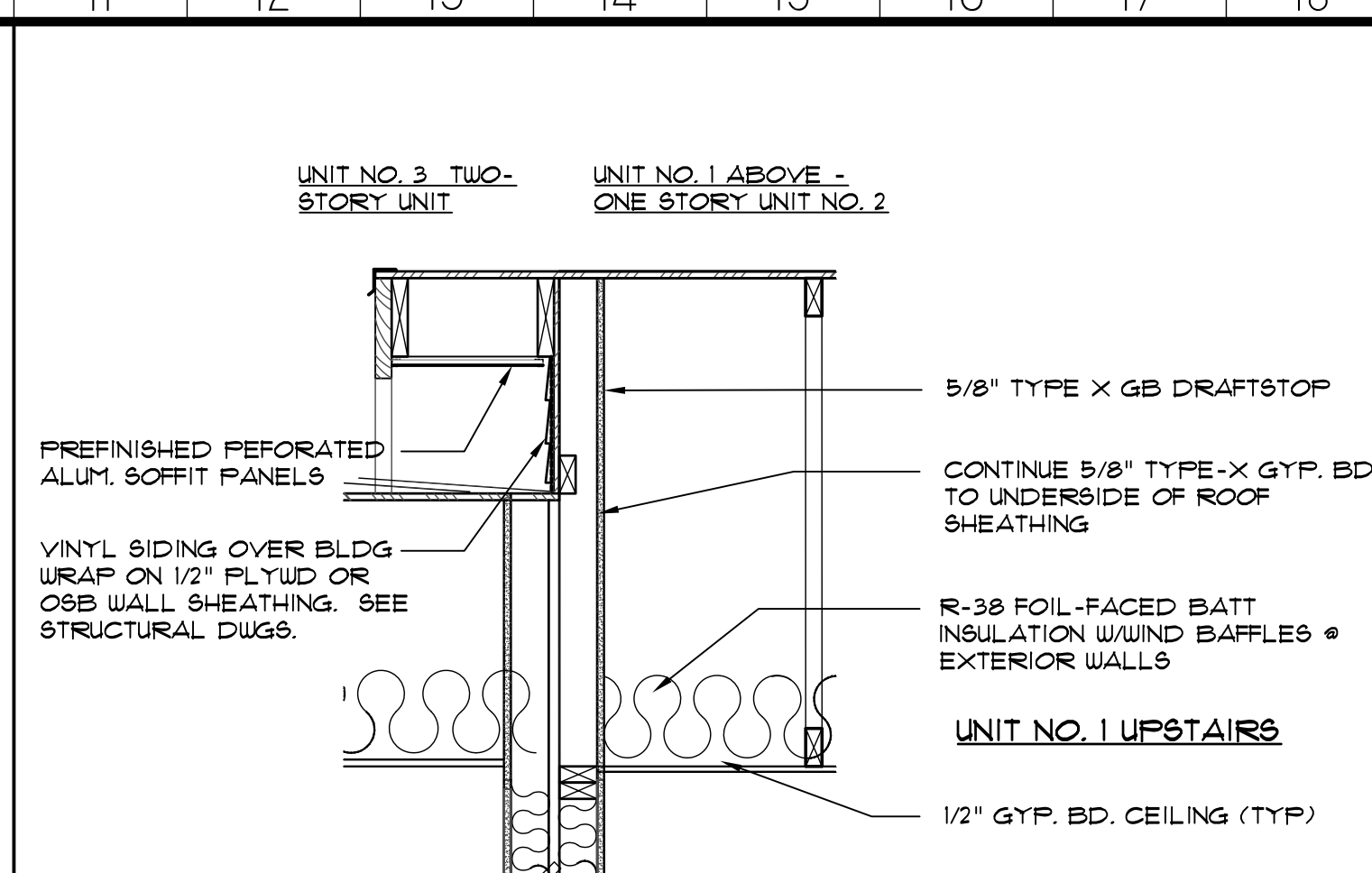
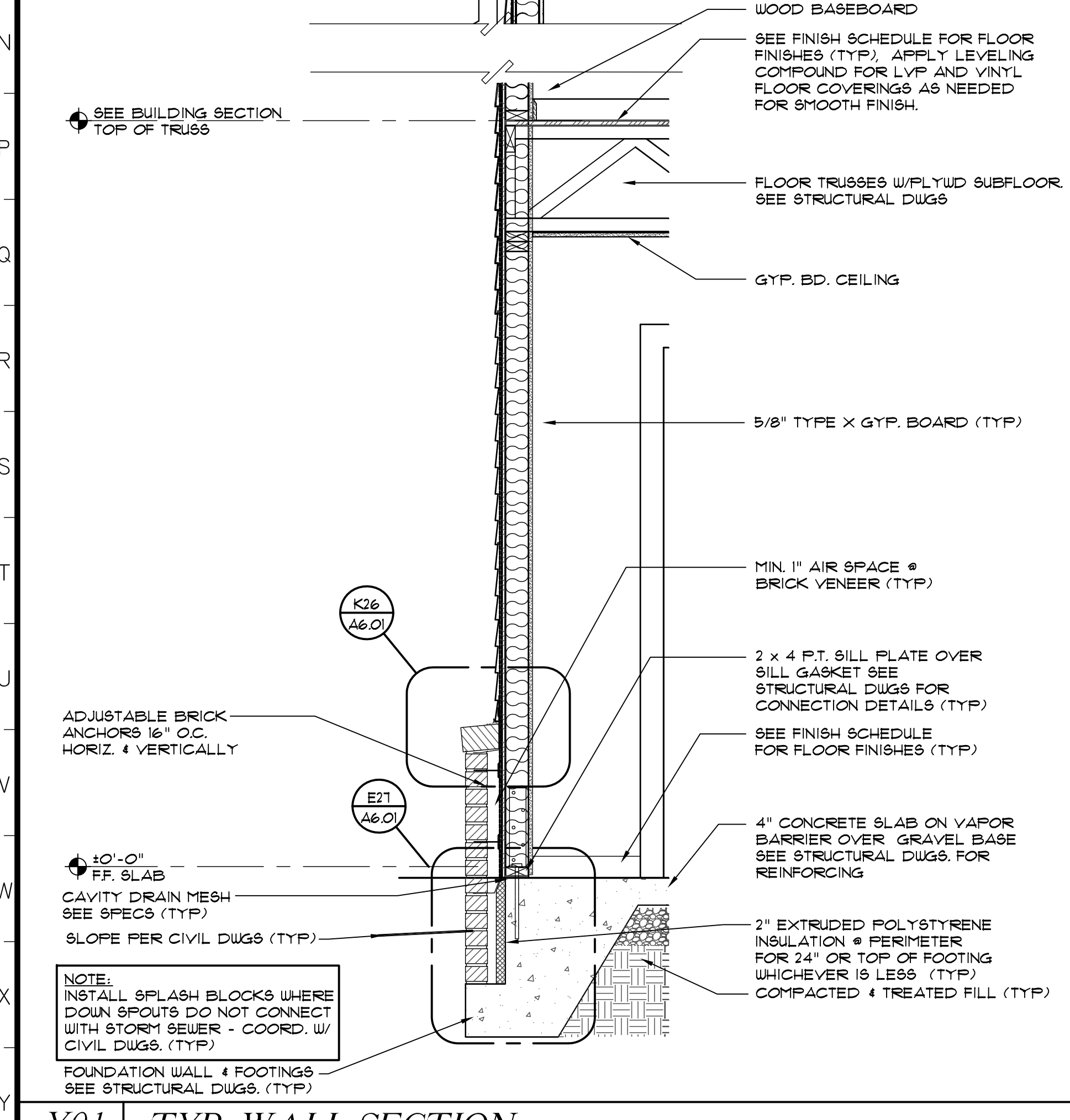
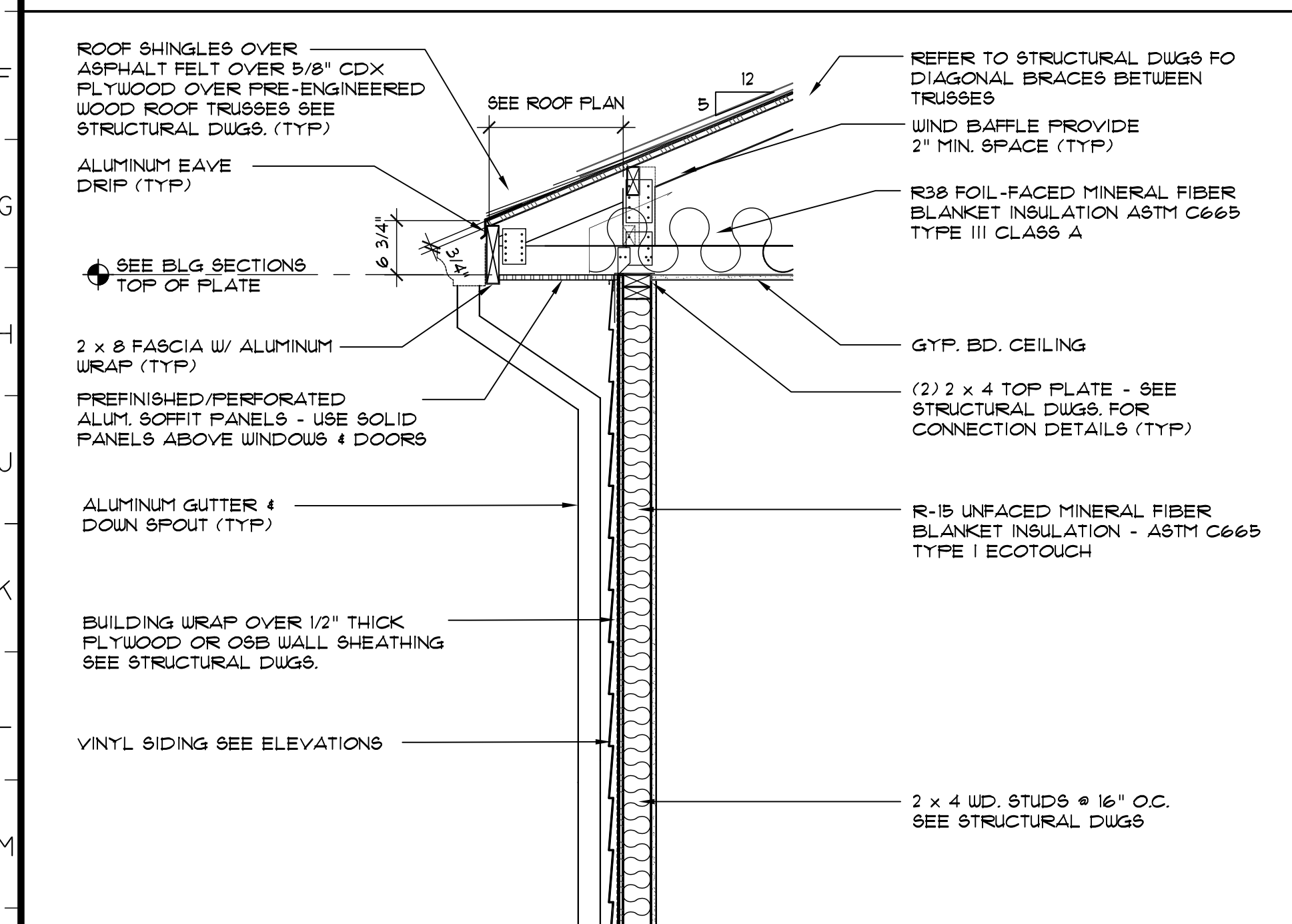
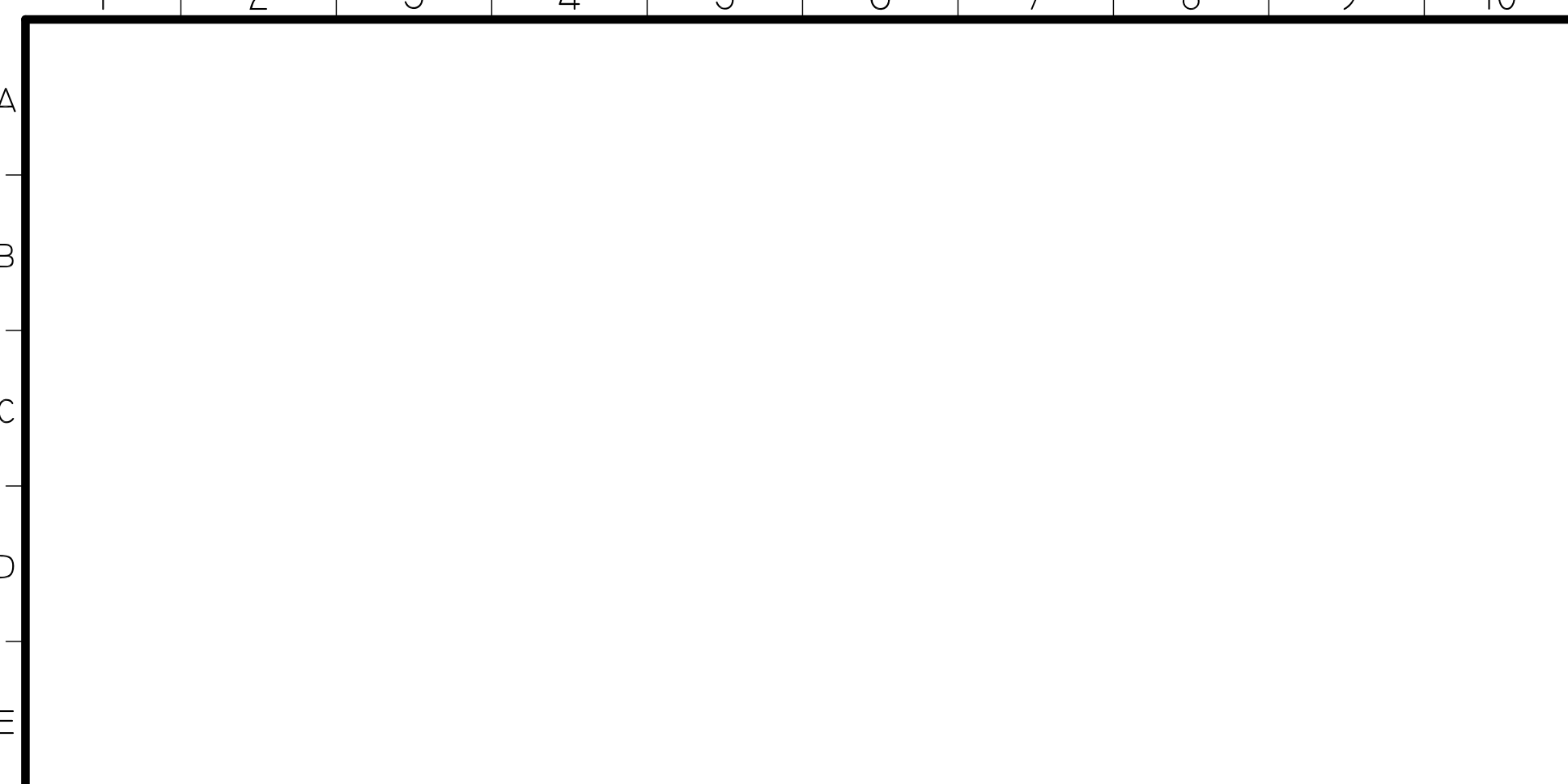
Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO: 18701
 DWG NO: A2.03
 DRAWN BY: JS
 DATE: 10.25.2019

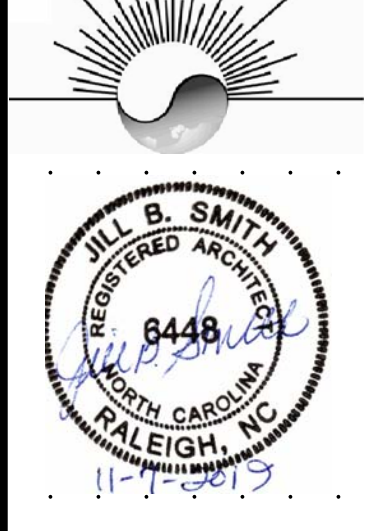
REVISIONS

Building Sections

A2.02



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Permit Set

Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO: 18701
 DWG NO: A6.01
 DRAWN BY: JS
 DATE: 10.25.2019

REVISIONS

Wall Sections & Details

A6.01

GENERAL STRUCTURAL NOTES

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. CONSTRUCTION REVIEW SERVICES ARE NOT PART OF THIS CONTRACT. THE CONSTRUCTION MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ANY DEVIATION FROM THE DRAWINGS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. ERRORS AND/OR OMISSIONS FOUND ON THE STRUCTURAL DRAWINGS MUST BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IMMEDIATELY.

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHALL BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURAL SLAB CONSTRUCTION FOR CONCENTRATED LOADS DUE TO VEHICULAR OR FORKLIFT TRAFFIC. THE SLAB IS DESIGNED FOR UNIFORM LOADING AS NOTED IN THE "DESIGN LOADS" PORTION OF THE STRUCTURAL NOTES AND CONCENTRATED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE BUILDING CODE.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE FOR SPECIFIC VIBRATION LIMITS. VIBRATION LIMITATIONS ARE BASED ON STANDARD ENGINEERING PRACTICES AND PAST EXPERIENCE WITH SIMILAR CONSTRUCTION.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY.

ABBREVIATIONS

- A.B. ANCHOR BOLT
A.F.F. ABOVE FINISH FLOOR
C.-J. CONTROL OR CONSTRUCTION JOINT IN SLAB
E.-J. EXPANSION JOINT
E.O.S. EDGE OF SLAB
E.W. EACH WAY
N.T.S. NOT TO SCALE
O.C. ON CENTER
P.A.F. POWDER ACTUATED FASTENER
P.T. PRESSURE TREATED
S.-P.-F. SPRUCE PINE FIR LUMBER
SYP SOUTHERN YELLOW PINE LUMBER
T.O.F. TOP OF FOOTING
T.O.S. TOP OF STEEL
U.N.O. UNLESS NOTED OTHERWISE
W.W.F. WELDED WIRE FABRIC

CODE

NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (IBC 2015)
STRUCTURAL LOADING PER ASCE 7-2010
BUILDING RISK CATEGORY (NCSBC 2018 TABLE 1604.5) II

DESIGN LOADS

ROOF DEAD LOAD 20 PSF
ROOF LIVE LOAD 20 PSF
ATTIC LIVE LOAD See Truss Notes
FLOOR DEAD LOAD 15 PSF
FLOOR LIVE LOAD 40 PSF
FLOOR LIVE LOAD (Balcony) 60 PSF

SNOW LOAD DATA:
GROUND SNOW LOAD 15 PSF
SNOW EXPOSURE FACTOR 1.0
SNOW LOAD IMPORTANCE FACTOR 1.0
THERMAL FACTORIZATION FACTOR 1.1
FLAT ROOF SNOW LOAD 11.6 PSF
ROOF SLOPE FACTOR 1.0
PITCHED ROOF SNOW LOAD 11.6 PSF

WIND LOAD DATA:
ULTIMATE DESIGN WIND SPEED, Vu1t 118 MPH
NOMINAL DESIGN WIND SPEED, Vnom 91 MPH
WIND EXPOSURE B (w/ Open Patches) +0.18, -0.18
INTERNAL PRESSURE COEFFICIENTS
WIND BASE SHEAR (Bldg 1, x-x direction) 17.0 KIPS
WIND BASE SHEAR (Bldg 1, y-y direction) 17.0 KIPS
WIND BASE SHEAR (Bldg 2, x-x direction) 17.0 KIPS
WIND BASE SHEAR (Bldg 2, y-y direction) 72.5 KIPS
WIND PRESSURE FOR COMPONENTS / CLADDING PER ASCE 7-10

SEISMIC LOAD DATA:
SEISMIC IMPORTANCE FACTOR I 1.00
MAPPED SPECTRAL RESPONSE ACCELERATION Sa 0.178
MAPPED SPECTRAL RESPONSE ACCELERATION S1 0.085
SITE CLASS D
SPECTRAL RESPONSE COEFFICIENT SDS 0.191
SPECTRAL RESPONSE COEFFICIENT SD1 0.138
SEISMIC DESIGN CATEGORY C
BASIC STRUCTURAL SYSTEM Bearing Wall System
SEISMIC RESISTING SYSTEM Light Framed Walls w/ Shear Panels
RESPONSE MODIFICATION COEFFICIENT R 6.50 (x-x), 2.00 (y-y)
SYSTEM OVERSTRENGTH FACTOR Omega 3.00 (x-x), 2.50 (y-y)
DEFLECTION AMPLIFICATION FACTOR Cd 4.00 (x-x), 2.00 (y-y)
SEISMIC RESPONSE COEFFICIENT Cs 0.029 (x-x), 0.095 (y-y)
ANALYSIS PROCEDURES Equivalent Lateral Force
SEISMIC BASE SHEAR (Bldg 1) 8.5 KIPS (x-x), 28.0 KIPS (y-y)
SEISMIC BASE SHEAR (Bldg 2) 9.0 KIPS (x-x), 29.0 KIPS (y-y)

LATERAL DESIGN CONTROL WIND

FOUNDATIONS

ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING 2000 PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED.

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL. THE MINIMUM BEARING CAPACITY SHALL BE 2000 PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D-698 IN THE FINAL FOOT BENEATH FOOTINGS, FLOOR SLABS, AND PAVEMENTS.

WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT BRACING UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE". ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3000 PSI. USE NORMAL WEIGHT CONCRETE FOR FOOTINGS AND SLABS ON GRADE.

CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 6 PERCENT (+/- 1.5%).

DO NOT CAST CONCRETE IN WATER OR ON FROZEN GROUND. FOR SLABS ON GRADE, LIGHTLY DAMPEN THE SUBGRADE BEFORE PLACING CONCRETE TO PREVENT THE SUBGRADE FROM ABSORBING WATER FROM THE CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUBGRADE SURFACE.

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE IN SQUARE PATTERNS AT A MAXIMUM SPACING OF 15' UNLESS NOTED OTHERWISE. PLACE CONTROL JOINTS TO AVOID REINFRACMENT CORNERS. MAKE SAWCUTS TO FORM WEAKENED PLANE CONTROL JOINTS AS SOON AFTER CONCRETE PLACEMENT AS POSSIBLE.

START CURING FOR SLABS ON GRADE AS SOON AS THE FINISHERS ARE DONE. APPLY THE CURING COMPOUND IN TWO COATS AT RIGHT ANGLES TO EACH OTHER AND NOT MORE THAN 300 SQUARE FEET PER GALLON, ABOUT 15 MINUTES APART. DURING HOT WEATHER, USE A FOG SPRAY TO KEEP THE SURFACE DAMP BEFORE APPLYING A CURING COMPOUND.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

ALL SLABS ON GRADE SHALL BE REINFORCED WITH 6 x 6 W 1.4 x W 1.4 W.W.F. SUPPORT THE MESH AS REQUIRED TO INSURE THAT IT WILL BE LOCATED IN THE UPPER THIRD OF THE SLAB THICKNESS.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2"-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

LAP ALL SPLICES IN CAST-IN-PLACE CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 50 BAR DIAMETERS.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

BRICK MASONRY

BRICK VENEER SHALL BE OF A QUALITY AT LEAST EQUAL TO THAT REQUIRED BY ASTM SPECIFICATIONS (C216). THE COMPRESSIVE STRENGTH OF BRICK UNITS SHALL BE 5000 PSI MINIMUM.

MORTAR SHALL BE OF A QUALITY AT LEAST EQUAL TO THAT REQUIRED BY ASTM "STANDARD SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY" (C270). USE TYPE "M" OR "S" MORTAR BELOW GRADE. TYPE "N" MORTAR IS PERMITTED ABOVE GRADE.

MASONRY ANCHORS FOR BRICK VENEER SHALL BE CORROSION RESISTANT (HOT DIP GALVANIZED AFTER FABRICATION) AND SHALL HAVE A MAXIMUM SPACING OF 16" HORIZONTALLY AND VERTICALLY.

REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF BRICK EXPANSION JOINTS, OR IF NOT SHOWN, COORDINATE WITH ARCHITECT. IN GENERAL, CONTROL JOINTS SHOULD BE LOCATED WITH A MAXIMUM SPACING OF 30'-0".

STRUCTURAL STEEL

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360-10).

STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RUST-INHIBITIVE PAINT.

THE STEEL USED SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS: CHANNELS, ANGLES, PLATES, MISC. SHAPES 36 KSI (A36)

USE ASTM F1554 (GRADE 36) BOLTS FOR ALL ANCHOR BOLTS U.N.O. STRAIGHT ANCHOR BOLTS SHALL BE THREADED RODS WITH A NUT INSTALLED AT THE EMBEDDED END OF THE BOLT.

ALL EXPANSION ANCHORS SHALL BE INSTALLED WITH STANDARD EMBEDMENT DEPTH (3-1/2" FOR 5/8" DIA. ANCHORS). EXPANSION ANCHORS MUST BE LOCATED 1-3/8" MINIMUM FROM VERTICAL MORTAR JOINTS.

FOR MISCELLANEOUS STEEL NOT SHOWN ON THESE DRAWINGS, SEE ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS.

SUBMIT ERECTION AND SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

WOOD TRUSSES

THE WOOD TRUSS FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT CALCULATIONS WITH THE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

LUMBER DEFECTS SUCH AS WANE OR KNOTS OCCURRING IN THE CONNECTOR PLATE AREA MUST NOT AFFECT MORE THAN TEN PERCENT OF REQUIRED PLATE AREA OR NUMBER OF EFFECTIVE TEETH REQUIRED FOR EACH TRUSS MEMBER. CONNECTOR PLATES SHALL BE APPLIED TO BOTH FACES OF TRUSS AT EACH JOINT, AND SHOULD PROVIDE FIRM EVEN CONTACT BETWEEN THE PLATE AND THE WOOD. ALL WOOD MEMBERS SHALL BE ACCURATELY CUT AND FABRICATED SO THAT ALL MEMBERS HAVE GOOD BEARING AND ALL COMPLETED TRUSS UNITS ARE UNIFORM. SEE LATEST EDITION OF TRUSS PLATE INSTITUTE "QUALITY CONTROL MANUAL" FOR TOLERANCES AND OTHER SPECIAL REQUIREMENTS.

THE DESIGN, FABRICATION AND ERECTION OF THE WOOD TRUSSES SHALL COMPLY WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND THE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION".

ALL TRUSSES MUST BE SECURELY BRACED BOTH DURING ERECTION AND AFTER PERMANENT INSTALLATION IN ACCORDANCE WITH WTC&A TRUSS PLATE INSTITUTE DOCUMENT "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES (BCS1)".

THE TRUSS FABRICATOR SHALL SHOW ALL RECOMMENDED BRACING, BOTH TEMPORARY AND PERMANENT, ON THE TRUSS SHOP DRAWINGS. ALSO, THE DRAWINGS MUST SHOW ALL RECOMMENDED DETAILS FOR CONNECTING THE TRUSSES TO EACH OTHER AND/OR THEIR SUPPORTS (IN GENERAL, USE HURRICANE CLIPS).

TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, DRILLED, NOTCHED, SPLICED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN PERMISSION FROM THE DESIGN ENGINEER.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE ANSI/AWS "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH SUPPLEMENT."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #2 UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (UNO). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL".

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

MICROLLAM HEADERS (LVL'S) ARE MANUFACTURED BY Weyerhaeuser (Level Truss Joist). (THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT HEADERS IF PROPERLY DESIGNED BY THE MANUFACTURER.) MICROLLAM HEADERS ARE ALWAYS DOUBLED AND MUST BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS @ 12" O.C. STAGGERED. PROVIDE CONTINUOUS LATERAL SUPPORT FOR TOP OF HEADER.

BUILT-UP STUD COLUMNS MUST BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. PROVIDE (2) 10d NAILS SPACED 12" ON CENTER FULL HEIGHT.

NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EVERY CORNER OF AN EXTERIOR WALL.

WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 5/8" DIAMETER BOLTS SPACED NOT MORE THAN 4' APART AND WHICH ARE EMBEDDED AT LEAST 6" IN CONCRETE OR 15" IN MASONRY UNITS. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

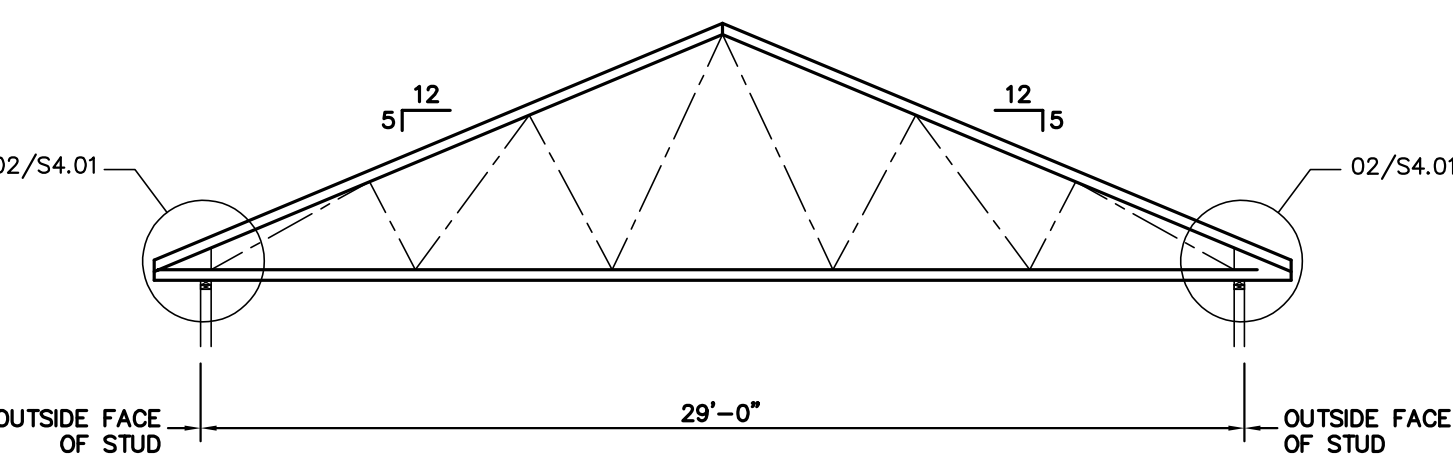
ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESERVE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

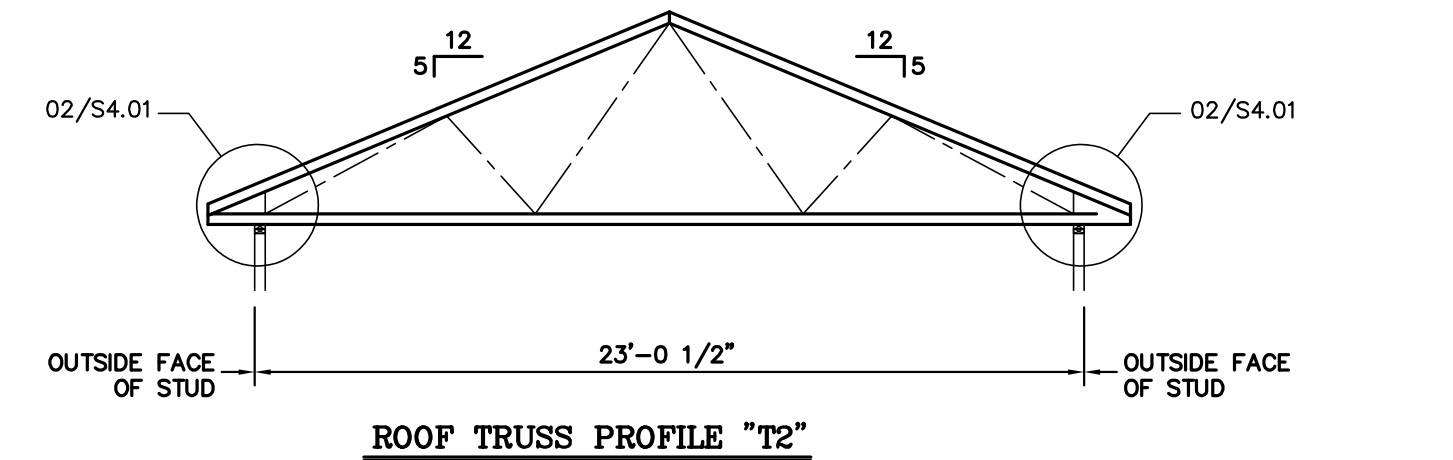
ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE BUILDING CODE.

TRUSS DESIGN NOTES :

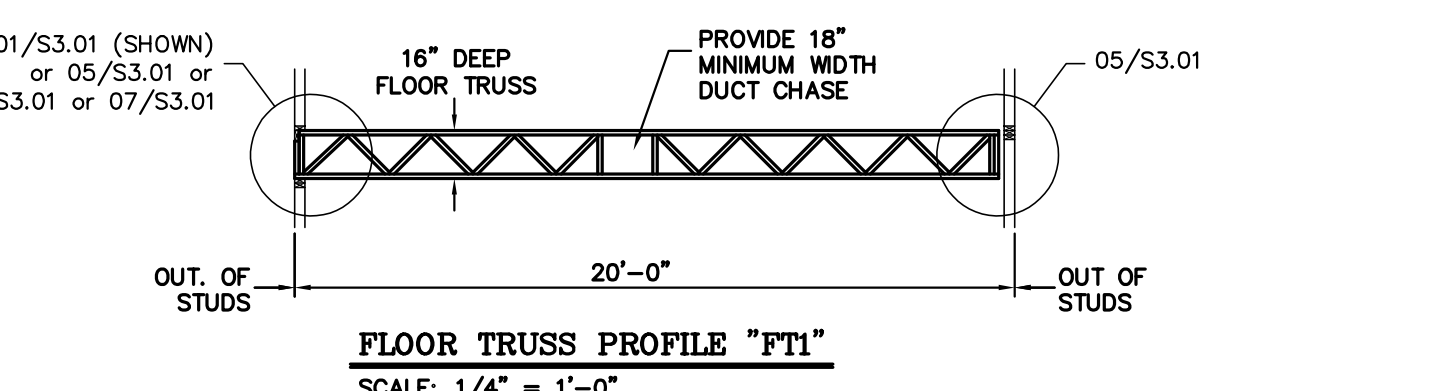
- 1. THE GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS FOR ALL TRUSS TYPES IN THE FIELD PRIOR TO FABRICATION. TRUSS PROFILE DIMENSIONS ARE TO FACE OF STUD.
2. ROOF TRUSSES SHALL BE SPACED AT 24" O.C. MAX. UNLESS OTHERWISE NOTED ON THE FRAMING PLANS.
3. FINAL ROOF/FLOOR TRUSS WEB CONFIGURATIONS ARE TO BE DETERMINED BY THE FABRICATOR.
4. THE SUPPLIER SHALL PROVIDE CALCULATIONS FOR ALL TRUSS TYPES, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA, FOR REVIEW BY THE PROJECT STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.
5. FLOOR TRUSS SPACING SHALL BE DETERMINED BY THE SUPPLIER, NOT TO EXCEED 24" O.C. MAXIMUM. TRUSS DEFLECTION SHALL BE LIMITED TO L/480 UNDER LIVE LOAD AND L/360 UNDER DEAD+LIVE LOAD.
6. THE SUPPLIER SHALL DESIGN ALL ROOF TRUSS TYPES FOR A TOTAL ROOF DEAD LOAD OF 20 PSF (10 PSF AT THE TOP CHORD & 10 PSF AT THE BOTTOM CHORD). THE DESIGN ROOF LIVE LOAD IS 20 PSF ON THE TOP CHORD. DESIGN TRUSS BOTTOM CHORDS FOR A LIVE LOAD OF 20 PSF. APPLIED TO PORTIONS OF THE BOTTOM CHORD WHERE THERE ARE TWO OR MORE ADJACENT TRUSSES WITH THE SAME WEB CONFIGURATION CAPABLE OF SUPPORTING A RECTANGLE 42" HIGH BY 24" WIDE OR GREATER, LOCATED WITHIN THE PLANE OF THE TRUSS. THE RECTANGLE SHALL FIT BETWEEN THE TOP OF THE BOTTOM CHORD AND THE BOTTOM OF ANY OTHER TRUSS MEMBER. DESIGN THE REMAINING PORTION OF TRUSS BOTTOM CHORDS FOR A CONCURRENT LIVE LOAD OF 10 PSF. THE BOTTOM CHORD LIVE LOAD SHALL BE APPLIED CONCURRENTLY WITH ALL OTHER DEAD & LIVE LOADS.
7. IN ADDITION TO THE DESIGN DEAD AND LIVE LOADS NOTED ABOVE, THE ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH ASCE 7-10 FOR A DESIGN WIND SPEED OF 118 MPH WITH EXPOSURE 'C'. 10 PSF MAXIMUM SHALL BE USED FOR THE DEAD LOAD WITH ALL WIND LOAD CASES.
8. FLOOR TRUSSES SHALL BE DESIGNED FOR A FLOOR DEAD LOAD OF 15 PSF (8 PSF AT THE TOP CHORD & 7 PSF AT THE BOTTOM CHORD). THE DESIGN FLOOR LIVE LOAD IS 40 PSF AT THE TOP CHORD.
9. IN ADDITION TO PERMANENT DESIGN LOADS NOTED ABOVE, ALL FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 (OR NFPA13R) FOR A CONCENTRATED CONSTRUCTION LIVE LOAD OF 250 LBS APPLIED AT ANY LOCATION ALONG THE BOTTOM CHORD WITH AN IMPACT LOAD DURATION FACTOR OF 2.0. SNOW LOAD, ROOF LIVE LOAD, AND FLOOR LIVE LOAD NEED NOT BE APPLIED SIMULTANEOUSLY WITH THE CONSTRUCTION LOAD.
10. SPLICES IN TRUSSES SHALL BE LOCATED AS REQUIRED BY THE FABRICATOR AND NOTED ON THE ERECTION DRAWINGS.
11. THE ERECTION DRAWINGS SHALL NOTE ALL LOCATIONS OF TEMPORARY BRIDGING OR BRACING REQUIRED TO STABILIZE THE TRUSSES DURING ERECTION, PRIOR TO THE INSTALLATION OF ROOF SHEATHING.
12. THE CONTRACTOR SHALL CONSULT THE LATEST EDITION OF BCSI FOR ERECTION BRACING GUIDELINES. PROPER WOOD TRUSS HANDLING AND ERECTION BRACING ARE THE RESPONSIBILITY OF THE CONTRACTOR.



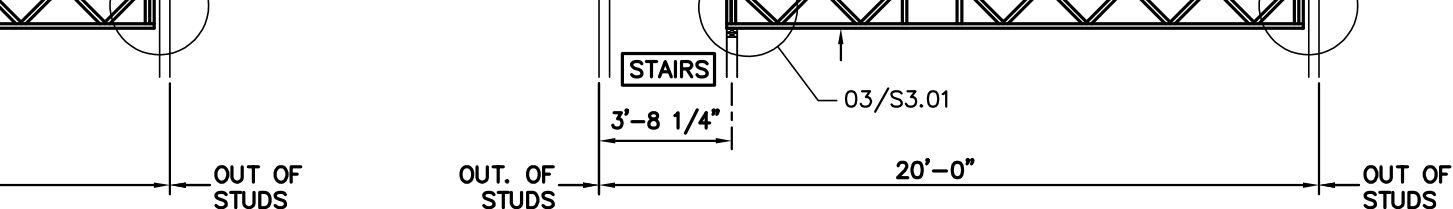
ROOF TRUSS PROFILE "T1" SCALE: 1/4" = 1'-0"



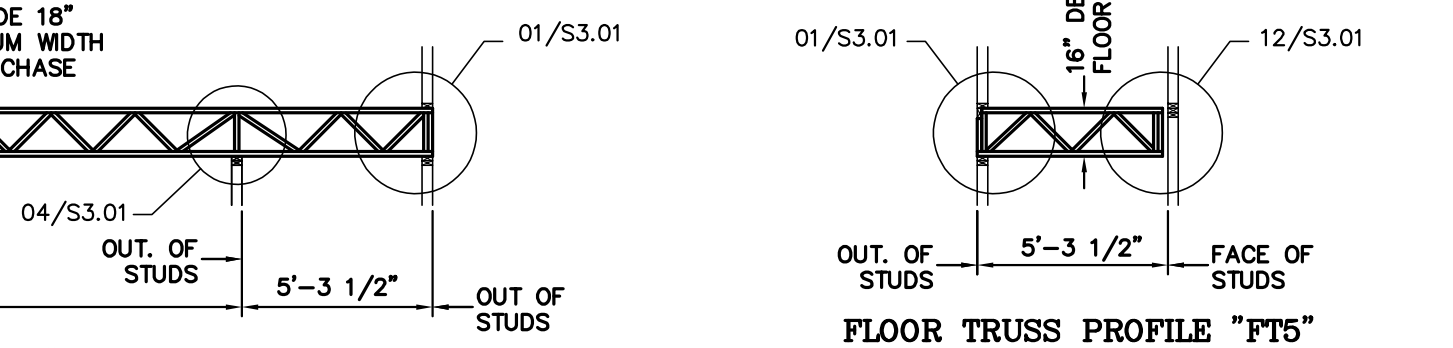
ROOF TRUSS PROFILE "T2" SCALE: 1/4" = 1'-0"



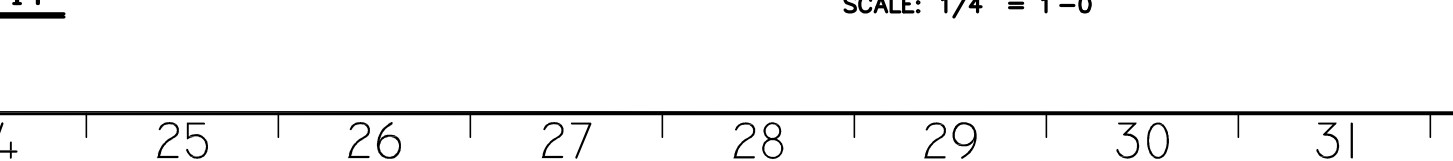
FLOOR TRUSS PROFILE "FT1" SCALE: 1/4" = 1'-0"



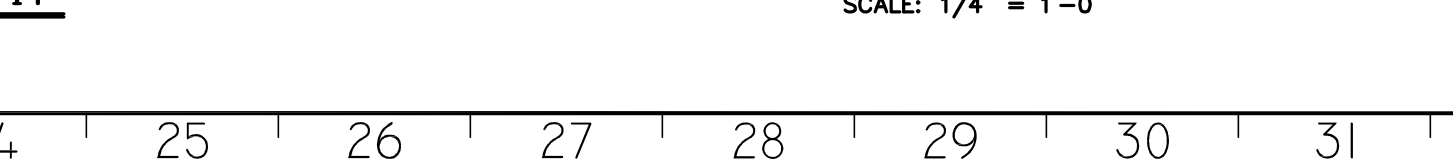
FLOOR TRUSS PROFILE "FT2" SCALE: 1/4" = 1'-0"



FLOOR TRUSS PROFILE "FT3" SCALE: 1/4" = 1'-0"

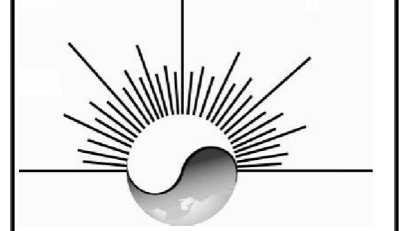


FLOOR TRUSS PROFILE "FT4" SCALE: 1/4" = 1'-0"

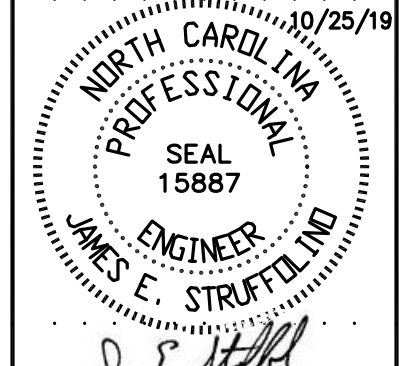


FLOOR TRUSS PROFILE "FT5" SCALE: 1/4" = 1'-0"

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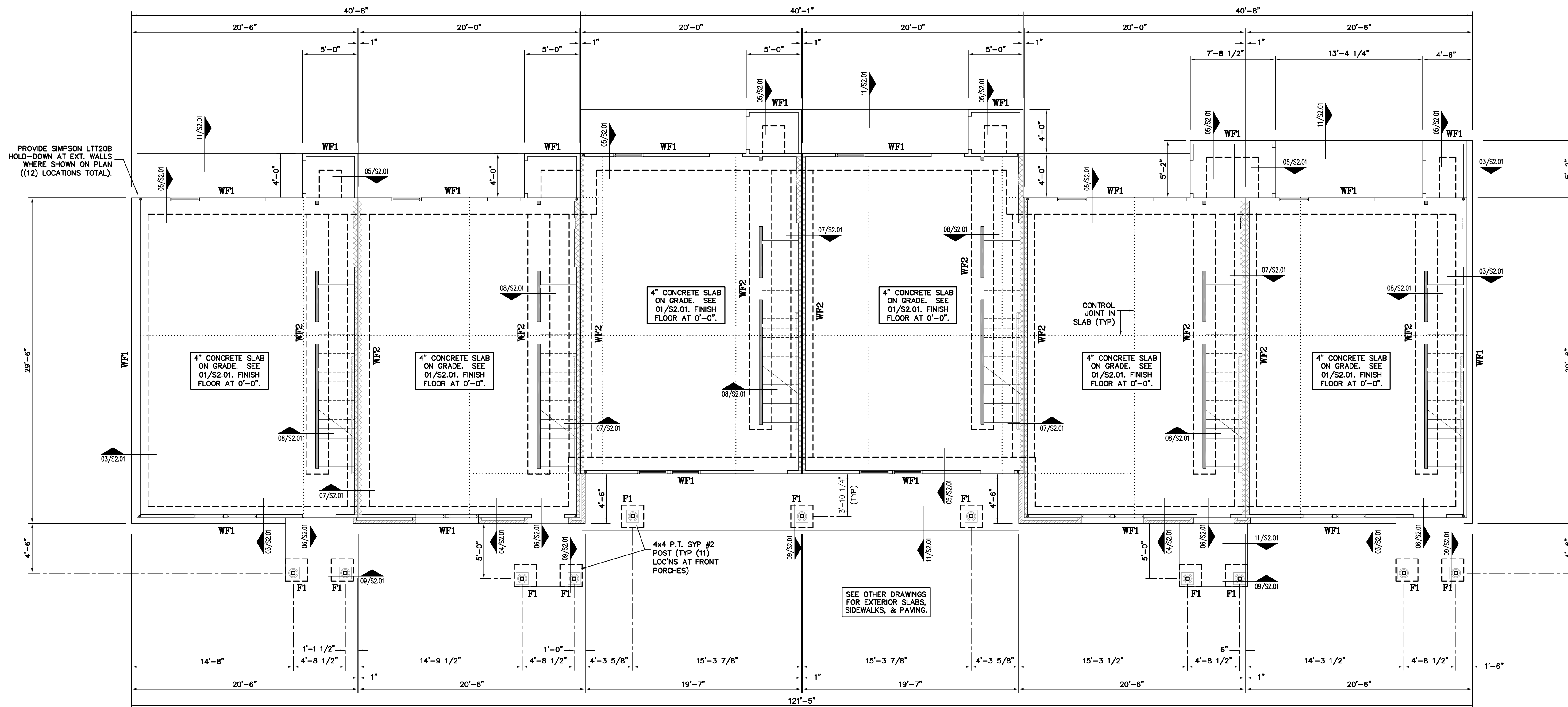
Meredith Square Phase 3
Apartments
BUIES CREEK, N.C.
CLIENT: MEREDITH SQUARE LLC

SCO NO.: 19M01
DWG NO.: 12221s001.dwg
DRAWN BY: JES
DATE: 10/25/19

REVISIONS

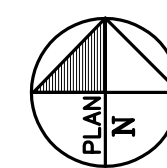
Structural Notes

50.01



FOUNDATION PLAN 01

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



FOUNDATION PLAN NOTES :

1. THE REFERENCE FINISH FLOOR ELEVATION = 0'-0" (SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION). SEE DETAIL 01/S2.01 FOR TYPICAL SLAB ON GRADE CONSTRUCTION.
2. SEE DETAIL 02/S2.01 FOR STEPPED FOOTING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL LOCATE FOOTING STEPS AS REQUIRED TO SUIT FINISH GRADES.
3. SEE THE ARCHITECTURAL PLANS FOR LOCATIONS OF BRICK CONTROL (EXPANSION) JOINTS. REFER TO STRUCTURAL NOTES FOR MASONRY CONTROL JOINT SPACING LIMITATIONS.
4. INTERIOR LOAD BEARING STUD WALLS & SHEAR WALLS HAVE BEEN SHADED ON THE PLAN.
5. DIMENSIONS AT EXTERIOR WALLS ON THIS PLAN ARE TO OUTSIDE FACE THICKENED SLAB FOUNDATION (WHICH IS ALSO OUTSIDE FACE OF BRICK WHEN BRICK IS PRESENT) EXCEPT WHERE NOTED OTHERWISE. SEE THE ARCHITECTURAL DRAWINGS FOR WALL DIMENSIONS NOT NOTED ON THIS PLAN. SEE SHEET S1.12 FOR DIMENSIONS TO OUTSIDE FACE OF STUD FRAMING.
6. SEE SHEET S0.01 FOR ADDITIONAL STRUCTURAL NOTES.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
WF1	SEE DETAIL	(3) #4 CONT. & #4 TIES 48" O.C.
WF2	SEE DETAIL	(2) #5 CONT. & #4 TIES 48" O.C.
F1	2'-0" x 2'-0" x 24"	NONE REQUIRED

WALL LEGEND	
EXTERIOR WALL 2x4 STUD FRAMING + BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING + PARTIAL HEIGHT BRICK VENEER (2x6 FRAMING SOME LOC'NS)	
EXTERIOR WALL 2x4 STUD FRAMING (2x6 SOME LOCATIONS)	
INTERIOR PARTITION WALL NON-STRUCTURAL	
INTERIOR BEARING WALL 2x4 STUD FRAMING	
INTERIOR BEARING PARTY WALL: BUILDING SHEAR WALL. 2x4 STUD FRAMING (2x6 FRAMING SOME LOCATIONS)	

Meredith Square Phase 3
 Apartments
 BUIES CREEK, N.C.
 CLIENT: MEREDITH SQUARE LLC

SCO NO.: 19M01
 DWG NO.: 12221s11.dwg
 DRAWN BY: JES
 DATE: 10/25/19

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Type 1
 Foundation
 Plan

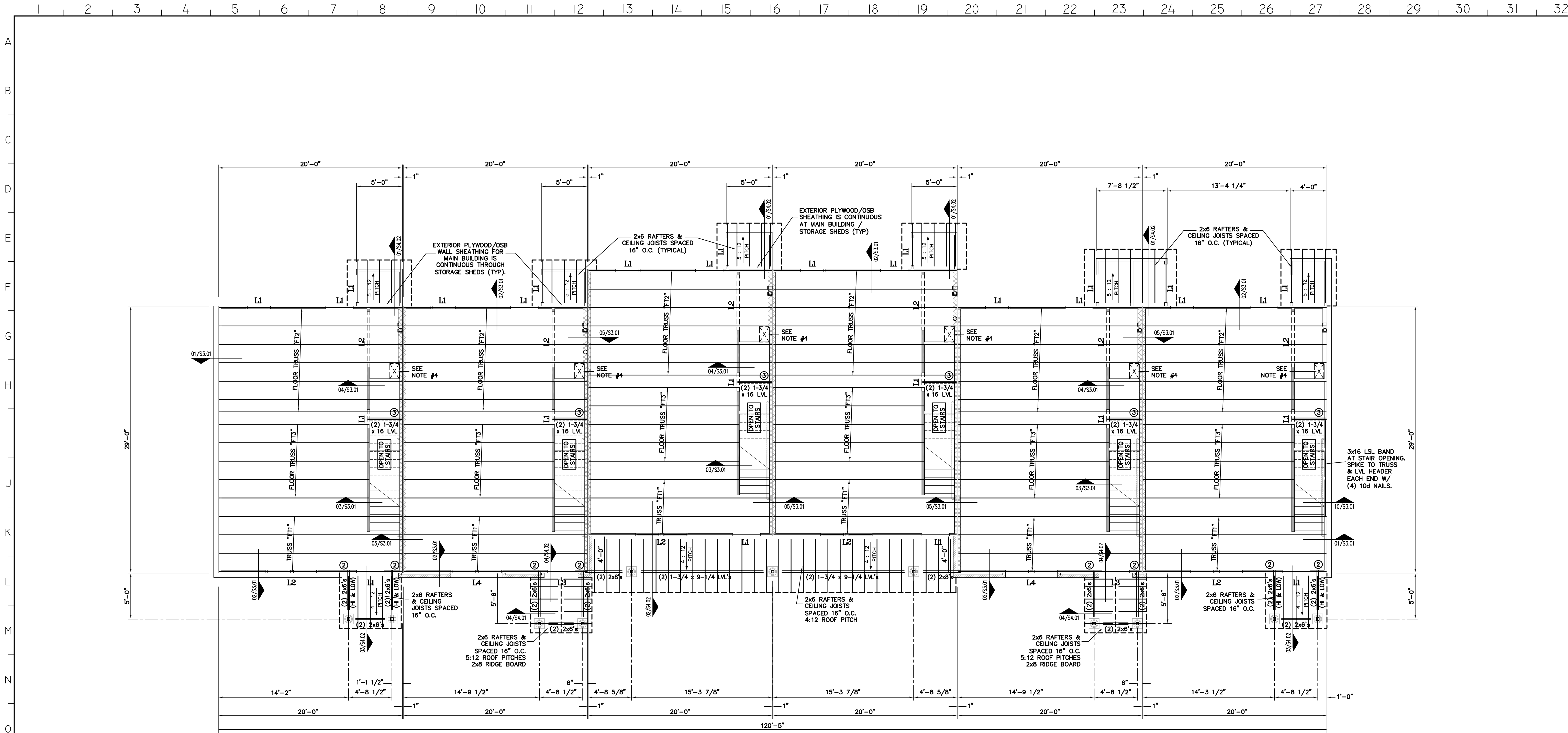
S1.11

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PROFESSIONAL ENGINEER
 JAMES E. STRATFIELD
 SEAL 15887
 NO. 25/19

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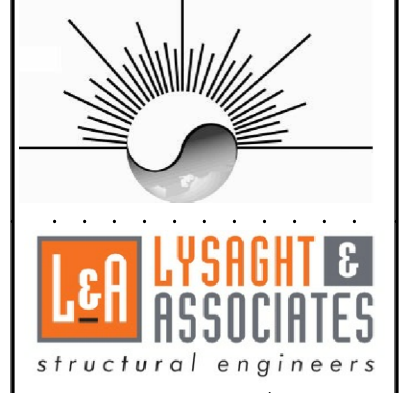
SECOND FLOOR FRAMING PLAN 01
 SCALE : 3/16" = 1'-0"

- FLOOR FRAMING PLAN NOTES :**
1. THE TYPICAL FLOOR TRUSS BEARING ELEVATION SHALL BE 8'-1 1/2" ABOVE THE REFERENCE FINISH FIRST FLOOR ELEVATION UNLESS NOTED OTHERWISE. THE FINISH SECOND FLOOR ELEVATION (TOP OF SHEATHING) IS AT 9'-6 1/4".
 2. DIMENSIONS AT EXTERIOR WALLS ON THIS PLAN ARE TO OUTSIDE FACE OF STUD.
 3. ALL FLOOR FRAMING SHALL BE 16" DEEP WOOD TRUSSES SPACED 24" O.C. MAXIMUM, EXCEPT WHERE NOTED OTHERWISE. THIS IS NOT A TRUSS PLACING PLAN, REFER TO WOOD TRUSS SHOP DRAWINGS. THE O.C. SHALL VERIFY THAT TRUSS LOCATIONS ON THE ERECTION PLAN DO NOT INTERFERE WITH PLUMBING ROUGH-INS. FLOOR TRUSSES MAY NOT BE NOTCHED OR CUT IN THE FIELD. SEE SHEET S0.01 FOR TRUSS FABRICATION / ERECTION NOTES.
 4. TRUSS PLACEMENT TO ALLOW 12"x20" PENETRATION AT DUCT CHASES.
 5. FLOOR CONSTRUCTION CONSISTS OF 3/4" THICK, 48/24 APA RATED, T&G PLYWOOD OR OSB FLOOR SHEATHING. ATTACH SHEATHING TO FRAMING W/ GLUE AND 10d NAILS 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD.
 6. INTERIOR LOAD BEARING STUD WALLS & SHEAR WALLS HAVE BEEN SHADED ON THE PLAN.
 7. SEE THE ARCHITECTURAL PLANS FOR DIMENSIONS LOCATING INTERIOR WALLS AND WALL OPENINGS WHERE NOT SHOWN ON THIS PLAN. SEE THE UNTEL SCHEDULE ON SHEET S1.13 FOR HEADER CONSTRUCTION AT WALL OPENINGS.
 8. SEE SHEET S0.01 FOR ADDITIONAL STRUCTURAL NOTES.

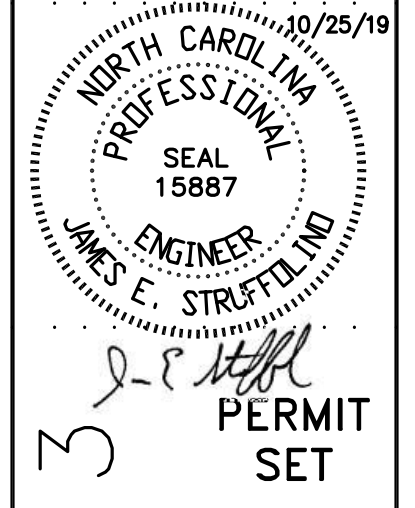
- WOOD STUD WALL FRAMING NOTES:**
- EXTERIOR WALL STUDS SHALL BE 2x4's S-P-F #2 GRADE MATERIAL (EXCEPT 2x6'S STUD GRADE MATL OR BETTER AT 2x6 WALLS) SPACED 16" O.C. SEE THE HEADER SCHEDULE ON SHEET S1.13 FOR HEADER CONSTRUCTION AT EXTERIOR AND LOAD BEARING INTERIOR WALL OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS LOCATING WALL OPENINGS.
- LOAD BEARING AND NON-LOAD BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 5-P-F STUD GRADE MATERIAL OR BETTER 2x4'S (EXCEPT 2x6'S WHERE SPECIFIED BY ARCHITECT) AT 16" O.C. MAXIMUM.
- USE THREE STUDS (MINIMUM) IN EACH CORNER. PROVIDE PRESERVATIVE TREATED SILL PLATES AT ALL WOOD STUD WALLS.
- WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 5/8" DIAMETER BOLTS (TYPE SPECIFIED ON DETAILS) SPACED NOT MORE THAN 48" APART. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- ALL EXTERIOR STUD WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD OR OSB SHEATHING TO RESIST LATERAL LOADS ON THE BUILDING. SHEATHING SHALL BE NAILED TO STUDS WITH 8d NAILS SPACED 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD - EXCEPTION: ATTACH SHEATHING W/ 8d NAILS SPACED 4" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD AT LOWER LEVEL FRONT WALLS. PROVIDE SOLID BLOCKING BETWEEN STUDS AT ALL HORIZONTAL JOINTS IN WALL SHEATHING.
- (3) DENOTES THREE FULL HEIGHT 2x4 STUDS FOR BEAM SUPPORT. BUILT-UP STUD COLUMNS MUST BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. USE (2) 10d NAILS FOR EACH STUD AT 12" O.C. FULL HEIGHT.
- SEE 14/S3.01 FOR STUD WALL CAP PLATE SLICE REQUIREMENTS AND LAP SPLICE AT BUILDING CORNERS.

WALL LEGEND	
EXTERIOR WALL 2x4 STUD FRAMING + BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING + PARTIAL HEIGHT BRICK VENEER (2x6 FRAMING SOME LOC'NS)	
EXTERIOR WALL 2x4 STUD FRAMING (2x6 SOME LOCATIONS)	
INTERIOR PARTITION WALL NON-STRUCTURAL	
INTERIOR BEARING WALL 2x4 STUD FRAMING	
INTERIOR BEARING PARTY WALL: BUILDING SHEAR WALL, 2x4 STUD FRAMING (2x6 FRAMING SOME LOCATIONS)	

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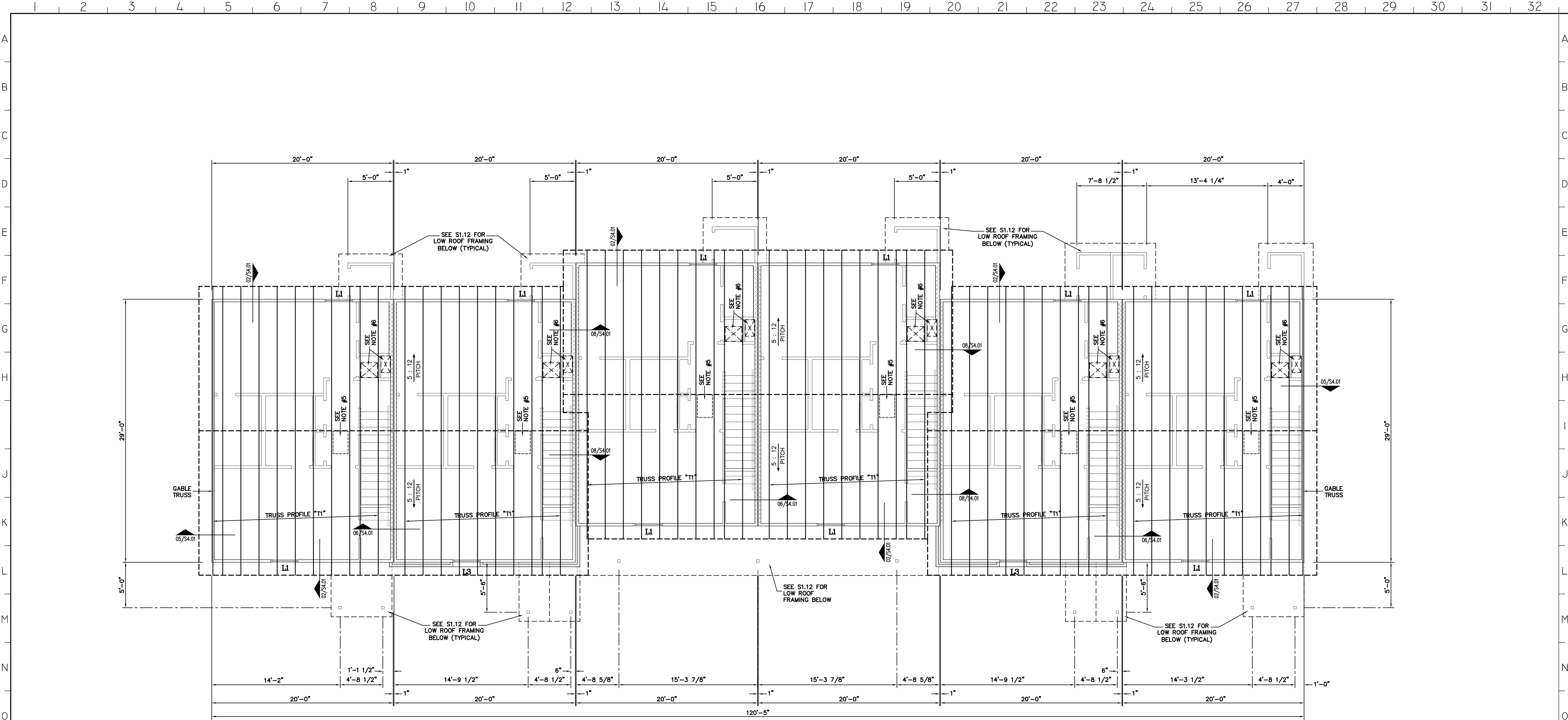
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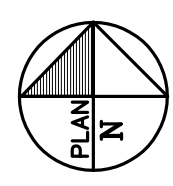
REVISIONS

**Type 1
 Upper Floor
 Framing Plan**

S1.12



ROOF FRAMING PLAN 01
SCALE : 3/16" = 1'-0"



ROOF FRAMING PLAN NOTES :

1. THE TYPICAL ROOF TRUSS BEARING ELEVATION SHALL BE 17'-7 3/4" ABOVE THE REFERENCE FINISH FIRST FLOOR ELEVATION EXCEPT WHERE NOTED OTHERWISE.
2. DIMENSIONS AT EXTERIOR WALLS ON THIS PLAN ARE TO OUTSIDE FACE OF STUD.
3. THE ROOF SHEATHING SHALL BE 5/8" THICK, 40/20 MIN. APA RATED CDX PLYWOOD OR OSB. ATTACH SHEATHING TO FRAMING WITH 10d NAILS SPACED 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORT LOCATIONS. SEE DETAIL 01/S4.01.
4. SEE SHEET S1.12 FOR WOOD STUD WALL CONSTRUCTION NOTES, INCLUDING EXTERIOR SHEATHING MATERIAL & ATTACHMENT REQUIREMENTS. SEE THE LINTEL SCHEDULE ON THIS SHEET FOR HEADER CONSTRUCTION AT EXTERIOR AND LOAD BEARING INTERIOR WALL OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS LOCATING WALL OPENINGS.
5. COORDINATE ATTIC ACCESS OPENING WITH ARCH. DRAWINGS. TRUSS LAYOUT TO ALLOW OPENING TO BE CENTERED IN CORRIDOR. PROVIDE DOUBLE 2x4 BETWEEN TRUSSES (CONNECTED W/ SIMPSON "LU24" JOIST HANGER EACH END) ON EACH SIDE OF ATTIC ACCESS OPENING.
6. TRUSS PLACEMENT TO ALLOW 18"x18" CLEARANCE OVER AHU AND 12"x20" CLEARANCE AT DUCT CHASE FOR DUCT PENETRATION INTO/FROM ATTIC.
7. GYPSUM SHEATHING IS TO BE ATTACHED DIRECTLY TO THE UNDERSIDE OF ALL TRUSS BOTTOM CHORDS. IF RESILIENT CHANNELS ARE USED TO SUPPORT SHEATHING, CONTACT THE STRUCTURAL ENGINEER FOR TRUSS BOTTOM CHORD BRACING THAT IS NECESSARY TO STABILIZE THE TRUSSES WHEN SUBJECTED TO NET WIND UPLIFT LOADS.
8. SEE SHEET S0.01 FOR ROOF TRUSS PROFILES. TRUSSES SHALL BE SPACED AT 24" O.C., MAXIMUM (UNLESS NOTED OTHERWISE). THIS IS NOT A TRUSS PLACING PLAN, REFER TO TRUSS SHOP DRAWING SUBMITTAL.
9. SEE SHEET S0.01 FOR ADDITIONAL STRUCTURAL NOTES.

LINTEL SCHEDULE

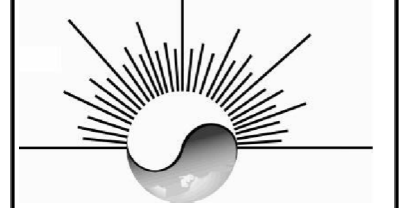
MARK	SIZE	DETAIL	NOTES
L1	(2) 2x8 (S-P-F #2) W/ PLYWOOD FILLER		1
L2	(2) 2x10 (S-P-F #2) W/ PLYWOOD FILLER		1
L3	(2) 2x8 (S-P-F #2) W/ PLYWOOD FILLER L4x4x1/4 BRICK SHELF		1, 2
L4	(2) 2x10 (S-P-F #2) W/ PLYWOOD FILLER L4x4x1/4 BRICK SHELF		1, 2

- HEADER SCHEDULE NOTES :**
1. HEADER BEARS ON SINGLE STUD, DOUBLE STUDS EXTEND FULL HEIGHT OF WALL ON EACH SIDE OF OPENING.
 2. PROVIDE A L4x4x1/4 BRICK SHELF ANGLE WITH 8" MINIMUM BEARING EACH END.

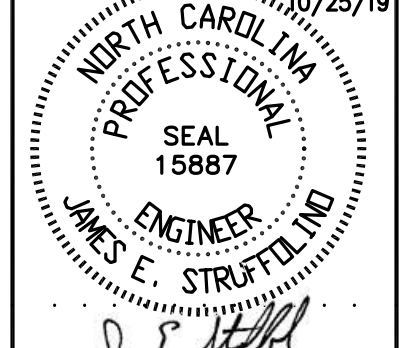
WALL LEGEND

EXTERIOR WALL 2x4 STUD FRAMING + BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING + PARTIAL HEIGHT BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING (2x6 SOME LOCATIONS)	
INTERIOR PARTITION WALL NON-STRUCTURAL	
INTERIOR BEARING WALL 2x4 STUD FRAMING	
INTERIOR BEARING PARTY WALL: BUILDING SHEAR WALL, 2x4 STUD FRAMING (2x6 FRAMING SOME LOCATIONS)	

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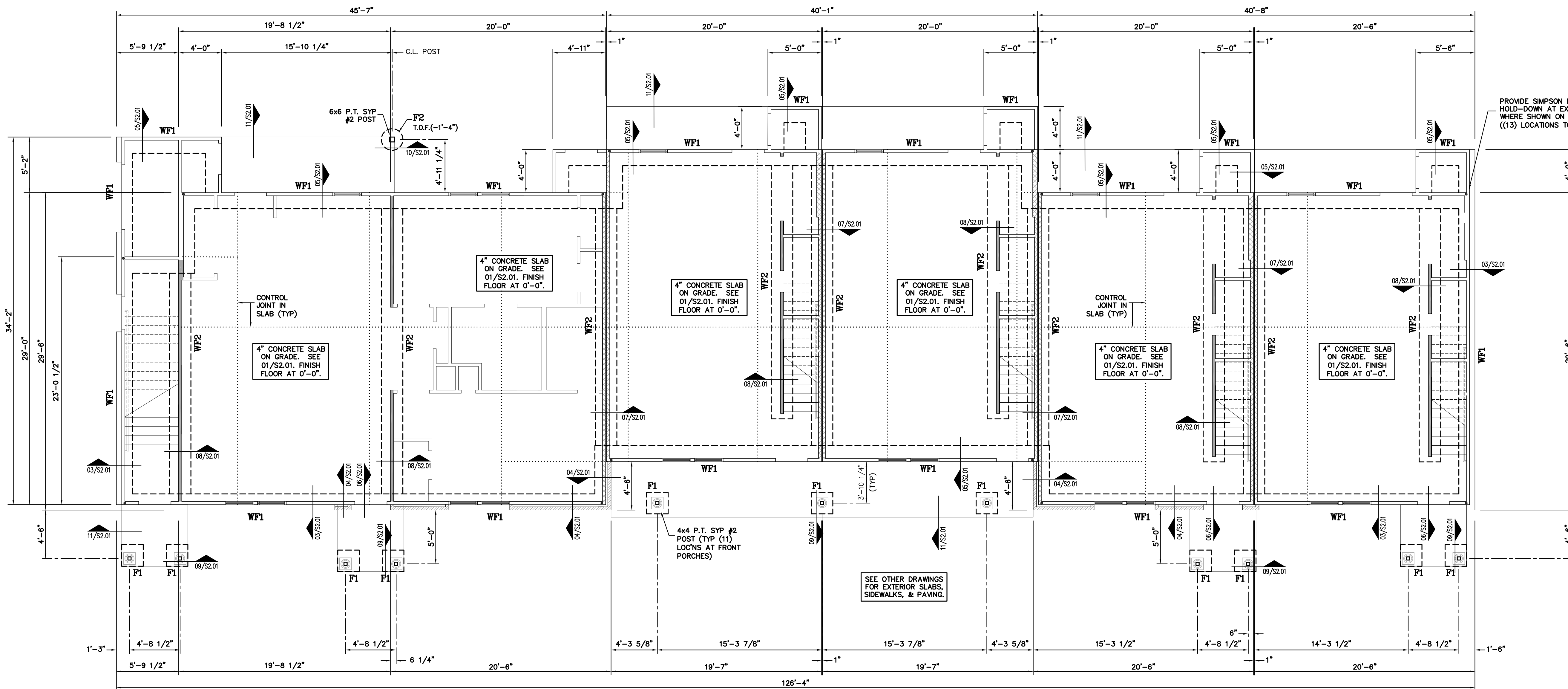
Meredith Square Phase 3
Apartments
BUIES CREEK, N.C.
CLIENT: MEREDITH SQUARE LLC

SCO NO.: 19M01
DWG NO.: 12221s111.dwg
DRAWN BY: JES
DATE: 10/25/19

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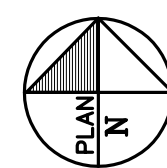
**Type 1
Roof
Framing Plan**

S1.13



FOUNDATION PLAN 01

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



FOUNDATION PLAN NOTES :

1. THE REFERENCE FINISH FLOOR ELEVATION = 0'-0" (SEE CIVIL DRAWINGS FOR ACTUAL ELEVATION). SEE DETAIL 01/S2.01 FOR TYPICAL SLAB ON GRADE CONSTRUCTION.
2. SEE DETAIL 02/S2.01 FOR STEPPED FOOTING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL LOCATE FOOTING STEPS AS REQUIRED TO SUIT FINISH GRADES.
3. SEE THE ARCHITECTURAL PLANS FOR LOCATIONS OF BRICK CONTROL (EXPANSION) JOINTS. REFER TO STRUCTURAL NOTES FOR MASONRY CONTROL JOINT SPACING LIMITATIONS.
4. T.O.F.(-1'-4") DENOTES A TOP OF FOOTING LOCATED 1'-4" BELOW THE FINISH FLOOR.
5. INTERIOR LOAD BEARING STUD WALLS & SHEAR WALLS HAVE BEEN SHADED ON THE PLAN.
6. DIMENSIONS AT EXTERIOR WALLS ON THIS PLAN ARE TO OUTSIDE FACE THICKENED SLAB FOUNDATION (WHICH IS ALSO OUTSIDE FACE OF BRICK WHEN BRICK IS PRESENT) EXCEPT WHERE NOTED OTHERWISE. SEE THE ARCHITECTURAL DRAWINGS FOR WALL DIMENSIONS NOT NOTED ON THIS PLAN. SEE SHEET S1-22 FOR DIMENSIONS TO OUTSIDE FACE OF STUD FRAMING.
7. SEE SHEET S0.01 FOR ADDITIONAL STRUCTURAL NOTES.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
WF1	SEE DETAIL	(3) #4 CONT. & #4 TIES 48" O.C.
WF2	SEE DETAIL	(2) #5 CONT. & #4 TIES 48" O.C.
F1	2'-0" x 2'-0" x 24"	NONE REQUIRED
F2	2'-0" x 3'-4" PIER	NONE REQUIRED

WALL LEGEND	
EXTERIOR WALL 2x4 STUD FRAMING + BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING + PARTIAL HEIGHT BRICK VENEER (2x6 FRAMING SOME LOC'NS)	
EXTERIOR WALL 2x4 STUD FRAMING (2x6 SOME LOCATIONS)	
INTERIOR PARTITION WALL NON-STRUCTURAL	
INTERIOR BEARING WALL 2x4 STUD FRAMING	
INTERIOR BEARING PARTY WALL: BUILDING SHEAR WALL, 2x4 STUD FRAMING (2x6 FRAMING SOME LOCATIONS)	

Meredith Square Phase 3
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Type 2
Foundation
Plan

S1.21

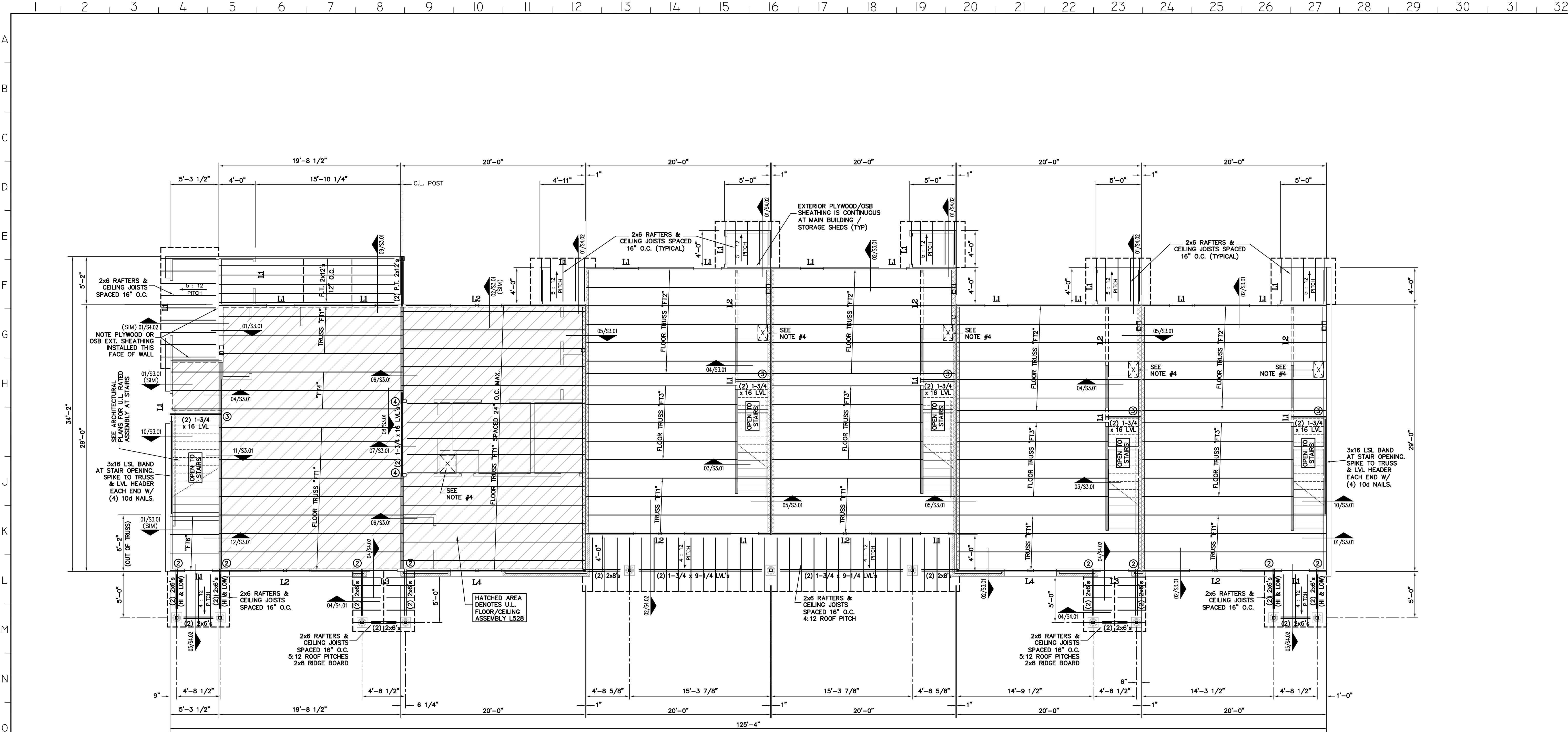
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JAMES E. STRATFIELD
ENGINEER
SEAL 15887
10/25/19

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LA-12221



SECOND FLOOR FRAMING PLAN 01
 SCALE : 3/16" = 1'-0"

- FLOOR FRAMING PLAN NOTES :**
1. THE TYPICAL FLOOR TRUSS BEARING ELEVATION SHALL BE 8'-1 1/2" ABOVE THE REFERENCE FINISH FIRST FLOOR ELEVATION UNLESS NOTED OTHERWISE. THE FINISH SECOND FLOOR ELEVATION (TOP OF PLYWOOD/OSB SHEATHING) IS AT 9'-6 1/4". THE HATCHED PLAN AREA DENOTES U.L. FLOOR/CEILING ASSEMBLY L528 WITH 1/2" HOMASOTE BOARDS PLACED OVER PLYWOOD/OSB SHEATHING. REFER TO ARCHITECTURAL PLANS FOR FINISH FLOOR MATERIALS.
 2. DIMENSIONS AT EXTERIOR WALLS ON THIS PLAN ARE TO OUTSIDE FACE OF STUD.
 3. ALL FLOOR FRAMING SHALL BE 16" DEEP WOOD TRUSSES SPACED 24" O.C. MAXIMUM, EXCEPT WHERE NOTED OTHERWISE. THIS IS NOT A TRUSS PLACING PLAN, REFER TO WOOD TRUSS SHOP DRAWINGS. THE G.C. SHALL VERIFY THAT TRUSS LOCATIONS ON THE ERECTION PLAN DO NOT INTERFERE WITH PLUMBING ROUGH-INS. FLOOR TRUSSES MAY NOT BE NOTCHED OR CUT IN THE FIELD. SEE SHEET S0.01 FOR TRUSS FABRICATION / ERECTION NOTES.
 4. TRUSS PLACEMENT TO ALLOW 12"x20" PENETRATION AT DUCT CHASES. TRUSS PLACEMENT TO ALLOW 16"x16" CEILING PENETRATION OVER MECHANICAL UNIT AT TWO-BED TYPE A UNIT.
 5. FLOOR CONSTRUCTION CONSISTS OF 3/4" THICK, 48/24 APA RATED, T&G PLYWOOD OR OSB FLOOR SHEATHING. ATTACH SHEATHING TO FRAMING W/ GLUE AND 10d NAILS 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD.
 6. INTERIOR LOAD BEARING STUD WALLS & SHEAR WALLS HAVE BEEN SHADED ON THE PLAN.
 7. SEE THE ARCHITECTURAL PLANS FOR DIMENSIONS LOCATING INTERIOR WALLS AND WALL OPENINGS WHERE NOT SHOWN ON THIS PLAN. SEE THE UNTEL SCHEDULE ON SHEET S1.23 FOR HEADER CONSTRUCTION AT WALL OPENINGS.
 8. SEE SHEET S0.01 FOR ADDITIONAL STRUCTURAL NOTES.

- WOOD STUD WALL FRAMING NOTES:**
- EXTERIOR WALL STUDS SHALL BE 2x4's S-P-F #2 GRADE MATERIAL (EXCEPT 2x6'S STUD GRADE MATL OR BETTER AT 2x6 WALLS) SPACED 16" O.C. SEE THE HEADER SCHEDULE ON SHEET S1.13 FOR HEADER CONSTRUCTION AT EXTERIOR AND LOAD BEARING INTERIOR WALL OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS LOCATING WALL OPENINGS.
- LOAD BEARING AND NON-LOAD BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 5-P-P-F STUD GRADE MATERIAL OR BETTER 2x4'S (EXCEPT 2x6'S WHERE SPECIFIED BY ARCHITECT) AT 16" O.C. MAXIMUM.
- USE THREE STUDS (MINIMUM) IN EACH CORNER. PROVIDE PRESERVATIVE TREATED SILL PLATES AT ALL WOOD STUD WALLS.
- WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 5/8" DIAMETER BOLTS (TYPE SPECIFIED ON DETAILS) SPACED NOT MORE THAN 48" APART. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- ALL EXTERIOR STUD WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD OR OSB SHEATHING TO RESIST LATERAL LOADS ON THE BUILDING. SHEATHING SHALL BE NAILED TO STUDS WITH 8d NAILS SPACED 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD - EXCEPTION: ATTACH SHEATHING W/ 8d NAILS SPACED 4" O.C. AT PANEL EDGES AND 12" O.C. IN THE PANEL FIELD AT LOWER LEVEL FRONT WALLS. PROVIDE SOLID BLOCKING BETWEEN STUDS AT ALL HORIZONTAL JOINTS IN WALL SHEATHING.
- (3) DENOTES THREE FULL HEIGHT 2x4 STUDS FOR BEAM SUPPORT. BUILT-UP STUD COLUMNS MUST BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. USE (2) 10d NAILS FOR EACH STUD AT 12" O.C. FULL HEIGHT.
- SEE 14/S3.01 FOR STUD WALL CAP PLATE SLICE REQUIREMENTS AND LAP SPLICE AT BUILDING CORNERS.

WALL LEGEND	
EXTERIOR WALL 2x4 STUD FRAMING + BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING + PARTIAL HEIGHT BRICK VENEER (2x6 FRAMING SOME LOC'NS)	
EXTERIOR WALL 2x4 STUD FRAMING (2x6 SOME LOCATIONS)	
INTERIOR PARTITION WALL NON-STRUCTURAL	
INTERIOR BEARING WALL 2x4 STUD FRAMING	
INTERIOR BEARING PARTY WALL: BUILDING SHEAR WALL, 2x4 STUD FRAMING (2x6 FRAMING SOME LOCATIONS)	

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NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 15887
 JAMES E. STRATFIELD
 10/25/19
 PERMIT SET

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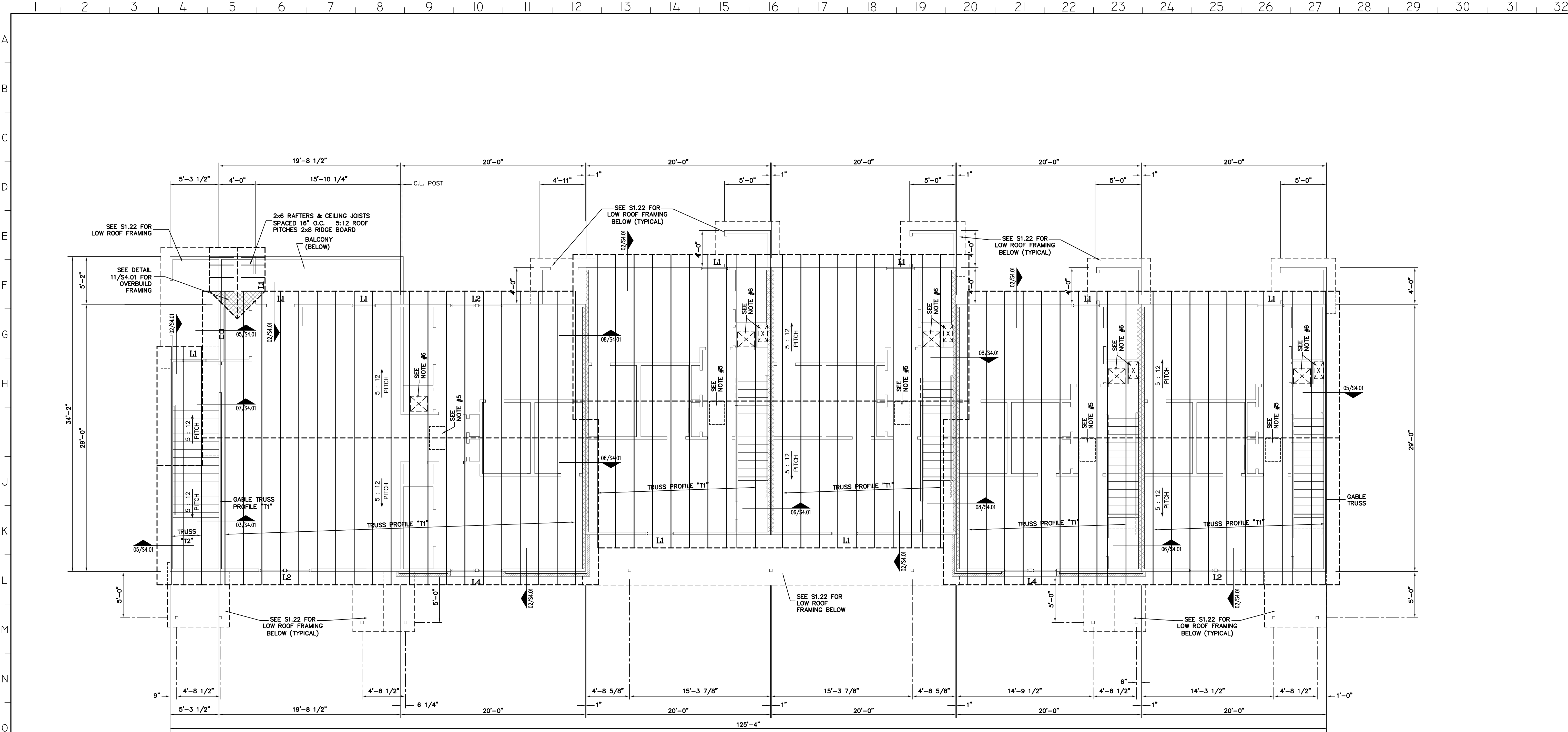
SCO NO.: 19M01
 DWG NO.: 12221s121.dwg
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 DATE: 10/25/19

REVISIONS

Type 2 Upper Floor Framing Plan

S1.22

LA-12221



ROOF FRAMING PLAN 01
SCALE : 3/16" = 1'-0"

- ROOF FRAMING PLAN NOTES :**
1. THE TYPICAL ROOF TRUSS BEARING ELEVATION SHALL BE 17'-7 3/4" ABOVE THE REFERENCE FINISH FIRST FLOOR ELEVATION EXCEPT WHERE NOTED OTHERWISE.
 2. DIMENSIONS AT EXTERIOR WALLS ON THIS PLAN ARE TO OUTSIDE FACE OF STUD.
 3. THE ROOF SHEATHING SHALL BE 5/8" THICK, 40/20 MIN. APA RATED CDX PLYWOOD OR OSB. ATTACH SHEATHING TO FRAMING WITH 10d NAILS SPACED 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORT LOCATIONS. SEE DETAIL 01/S4.01.
 4. SEE SHEET S1.22 FOR WOOD STUD WALL CONSTRUCTION NOTES, INCLUDING EXTERIOR SHEATHING MATERIAL & ATTACHMENT REQUIREMENTS. SEE THE LINTEL SCHEDULE ON THIS SHEET FOR HEADER CONSTRUCTION AT EXTERIOR AND LOAD BEARING INTERIOR WALL OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS LOCATING WALL OPENINGS.
 5. COORDINATE ATTIC ACCESS OPENING WITH ARCH. DRAWINGS. TRUSS LAYOUT TO ALLOW OPENING TO BE CENTERED IN CORRIDOR. PROVIDE DOUBLE 2x4 BETWEEN TRUSSES (CONNECTED W/ SIMPSON "LJ24" JOIST HANGER EACH END) ON EACH SIDE OF ATTIC ACCESS OPENING.
 6. TRUSS PLACEMENT TO ALLOW 18"x18" CLEARANCE OVER AHU AND 12"x20" CLEARANCE AT DUCT CHASE FOR DUCT PENETRATION INTO/FROM ATTIC.
 7. GYPSUM SHEATHING IS TO BE ATTACHED DIRECTLY TO THE UNDERSIDE OF ALL TRUSS BOTTOM CHORDS. IF RESILIENT CHANNELS ARE USED TO SUPPORT SHEATHING, CONTACT THE STRUCTURAL ENGINEER FOR TRUSS BOTTOM CHORD BRACING THAT IS NECESSARY TO STABILIZE THE TRUSSES WHEN SUBJECTED TO NET WIND UPLIFT LOADS.
 8. SEE SHEET S0.01 FOR ROOF TRUSS PROFILES. TRUSSES SHALL BE SPACED AT 24" O.C., MAXIMUM (UNLESS NOTED OTHERWISE). THIS IS NOT A TRUSS PLACING PLAN, REFER TO TRUSS SHOP DRAWING SUBMITTAL.
 9. SEE SHEET S0.01 FOR ADDITIONAL STRUCTURAL NOTES.

LINTEL SCHEDULE			
MARK	SIZE	DETAIL	NOTES
L1	(2) 2x8 (S-P-F #2) W/ PLYWOOD FILLER		1
L2	(2) 2x10 (S-P-F #2) W/ PLYWOOD FILLER		1
L4	(2) 2x10 (S-P-F #2) W/ PLYWOOD FILLER L4x4x1/4 BRICK SHELF		1, 2

- HEADER SCHEDULE NOTES :**
1. HEADER BEARS ON SINGLE STUD, DOUBLE STUDS EXTEND FULL HEIGHT OF WALL ON EACH SIDE OF OPENING
 2. PROVIDE A L4x4x1/4 BRICK SHELF ANGLE WITH 8" MINIMUM BEARING EACH END.

WALL LEGEND	
EXTERIOR WALL 2x4 STUD FRAMING + BRICK VENEER (2x6 FRAMING SOME LOCATIONS)	
EXTERIOR WALL 2x4 STUD FRAMING + PARTIAL HEIGHT BRICK VENEER (2x6 FRAMING SOME LOC'NS)	
EXTERIOR WALL 2x4 STUD FRAMING (2x6 SOME LOCATIONS)	
INTERIOR PARTITION WALL NON-STRUCTURAL	
INTERIOR BEARING WALL 2x4 STUD FRAMING	
INTERIOR BEARING PARTY WALL: BUILDING SHEAR WALL, 2x4 STUD FRAMING (2x6 FRAMING SOME LOCATIONS)	

Meredith Square Phase 3
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Type 2
Roof
Framing Plan

S1.23

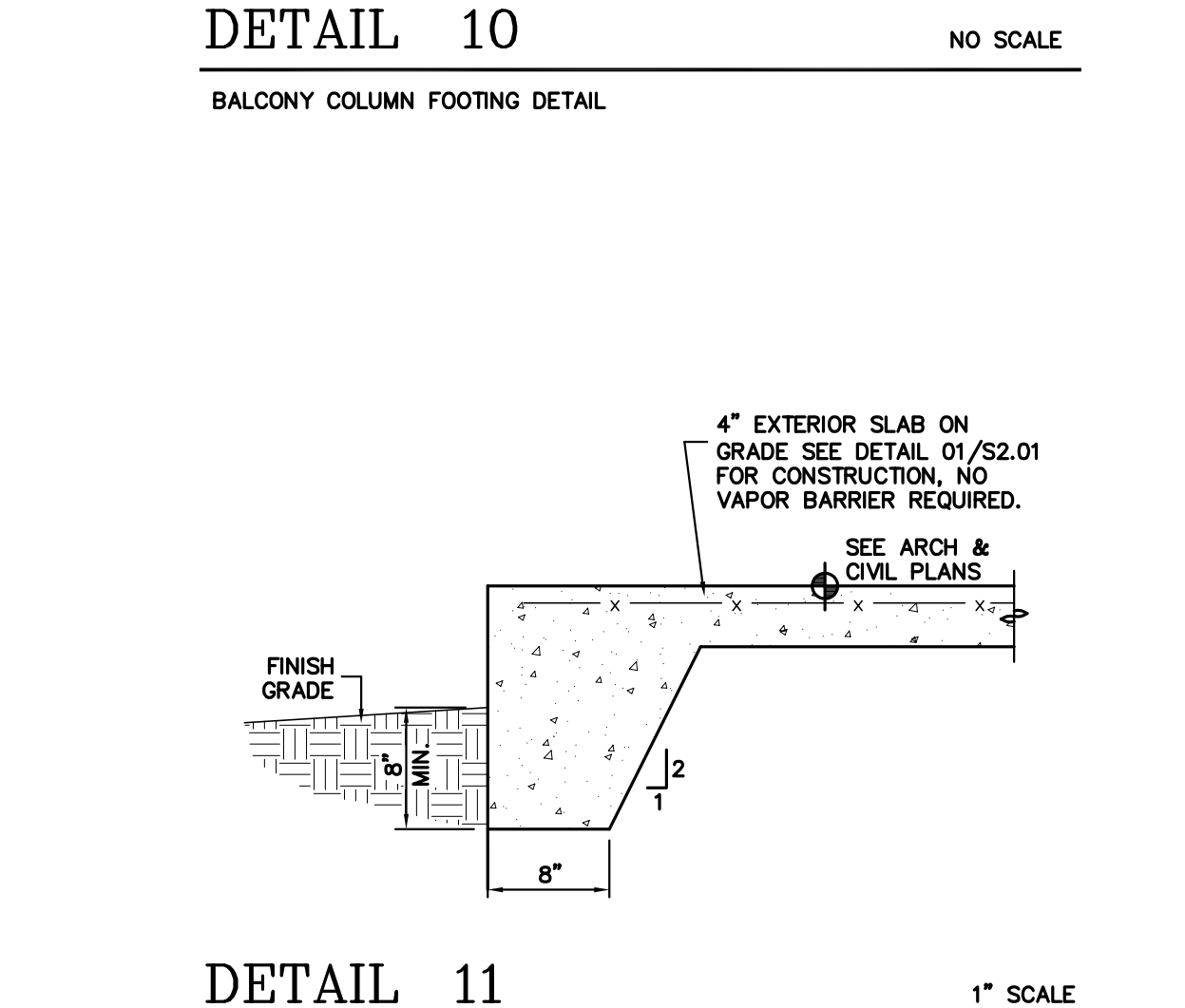
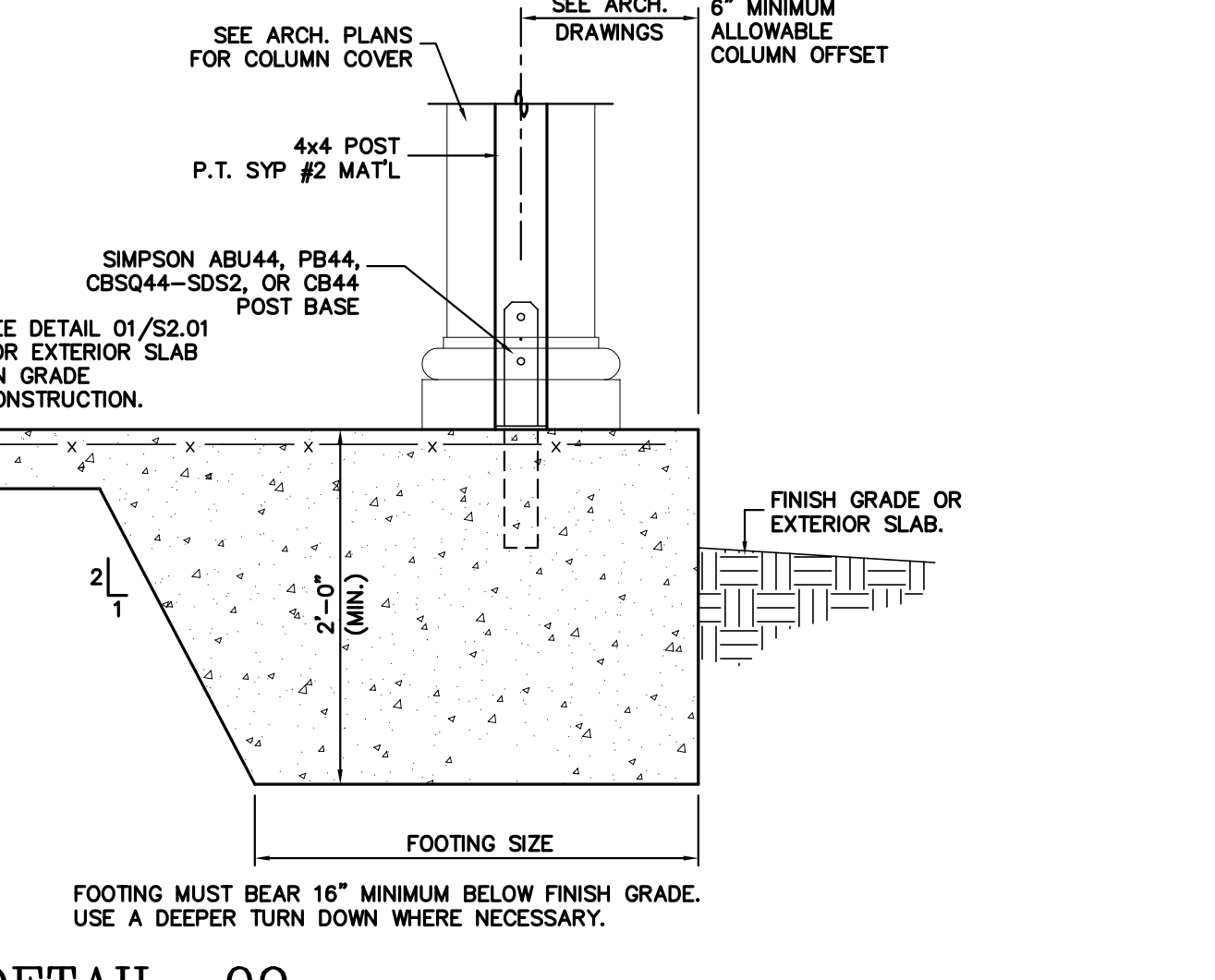
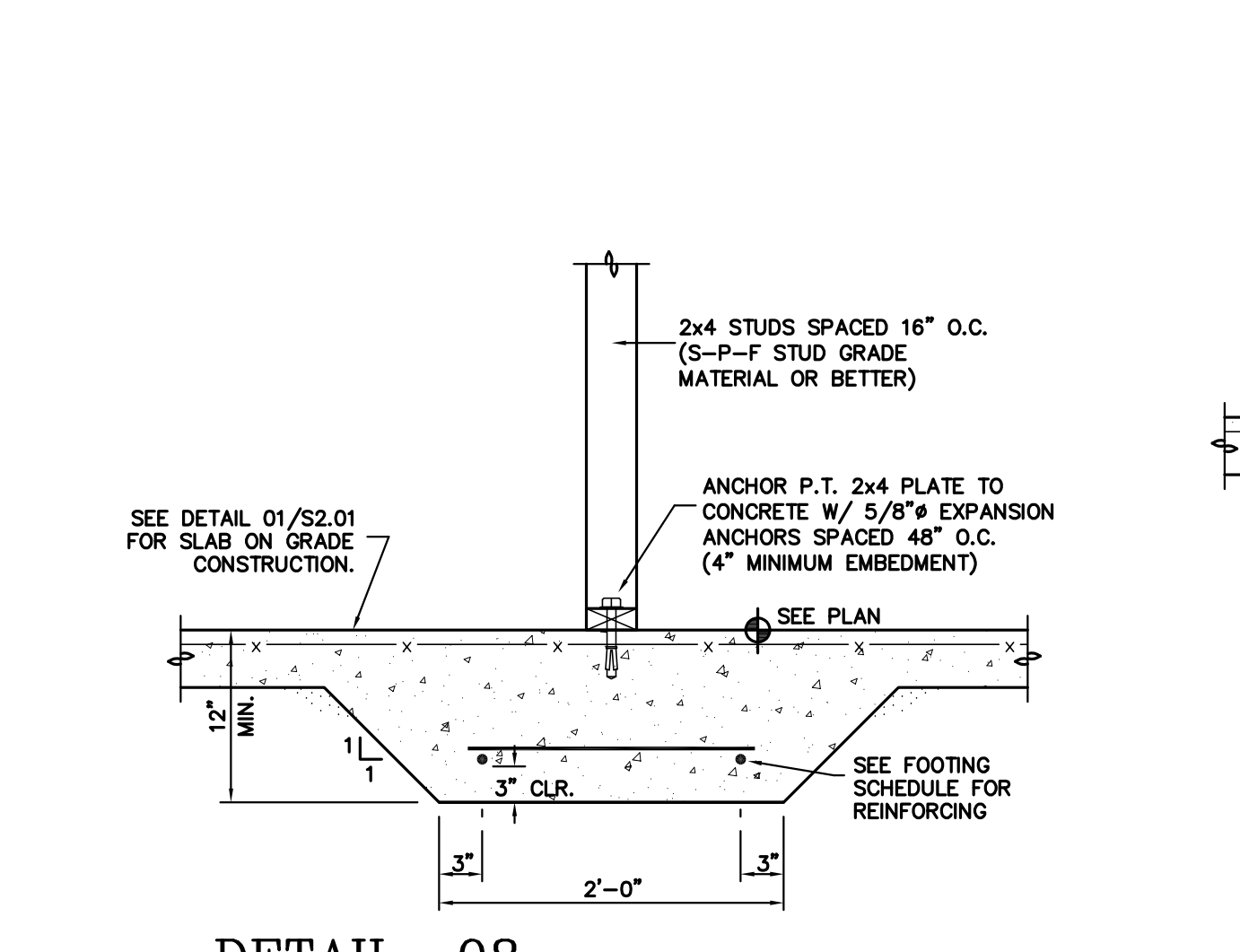
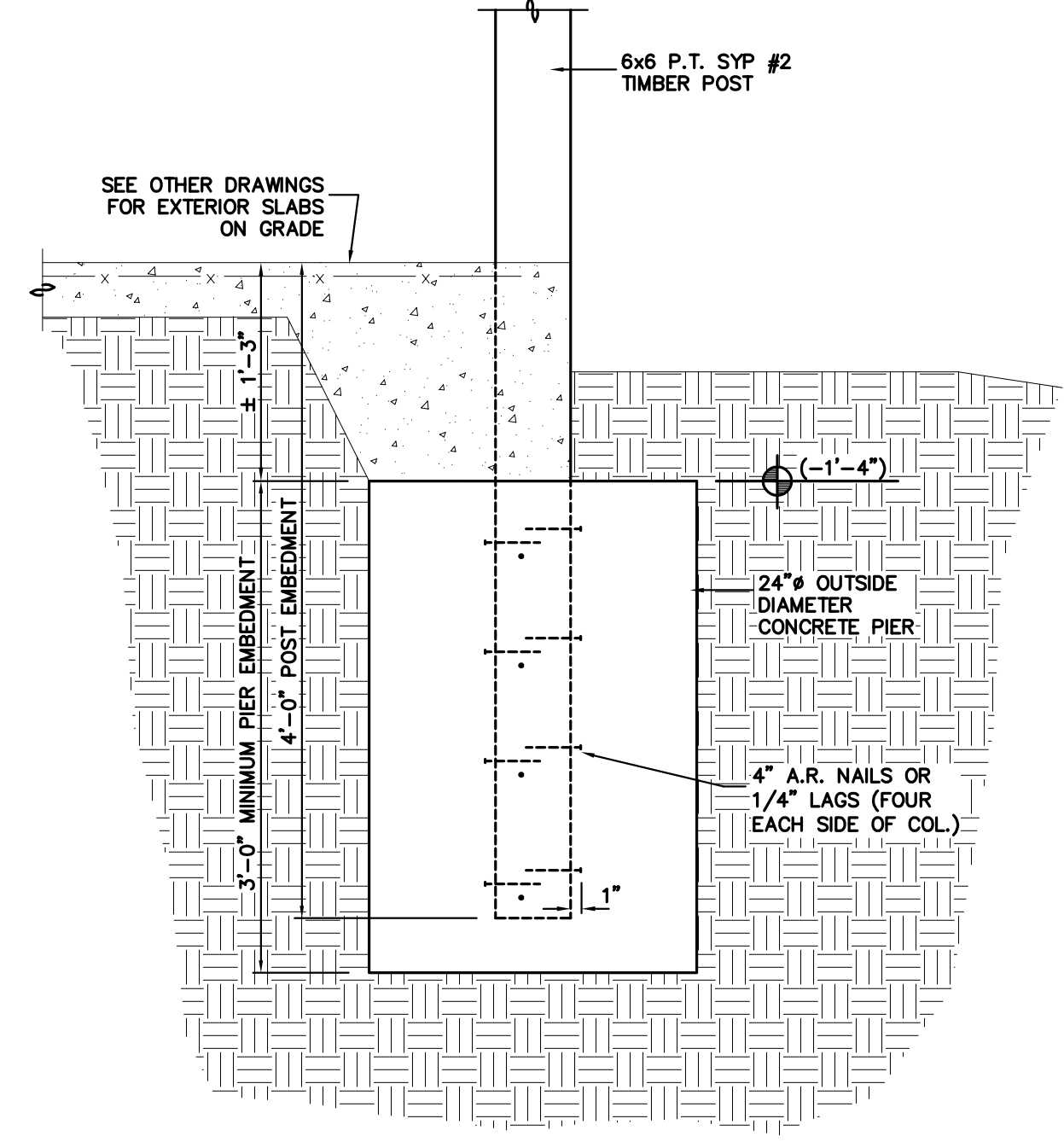
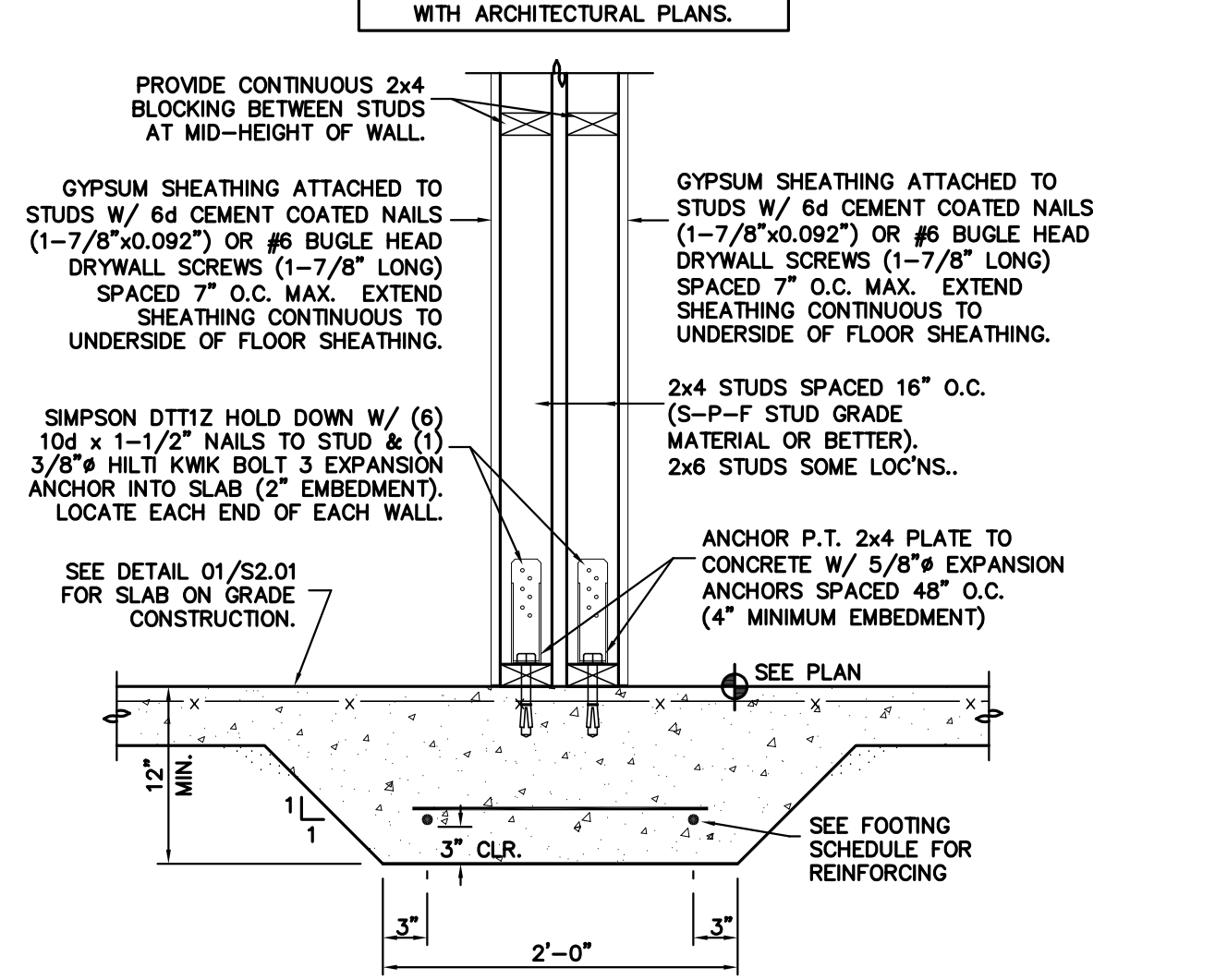
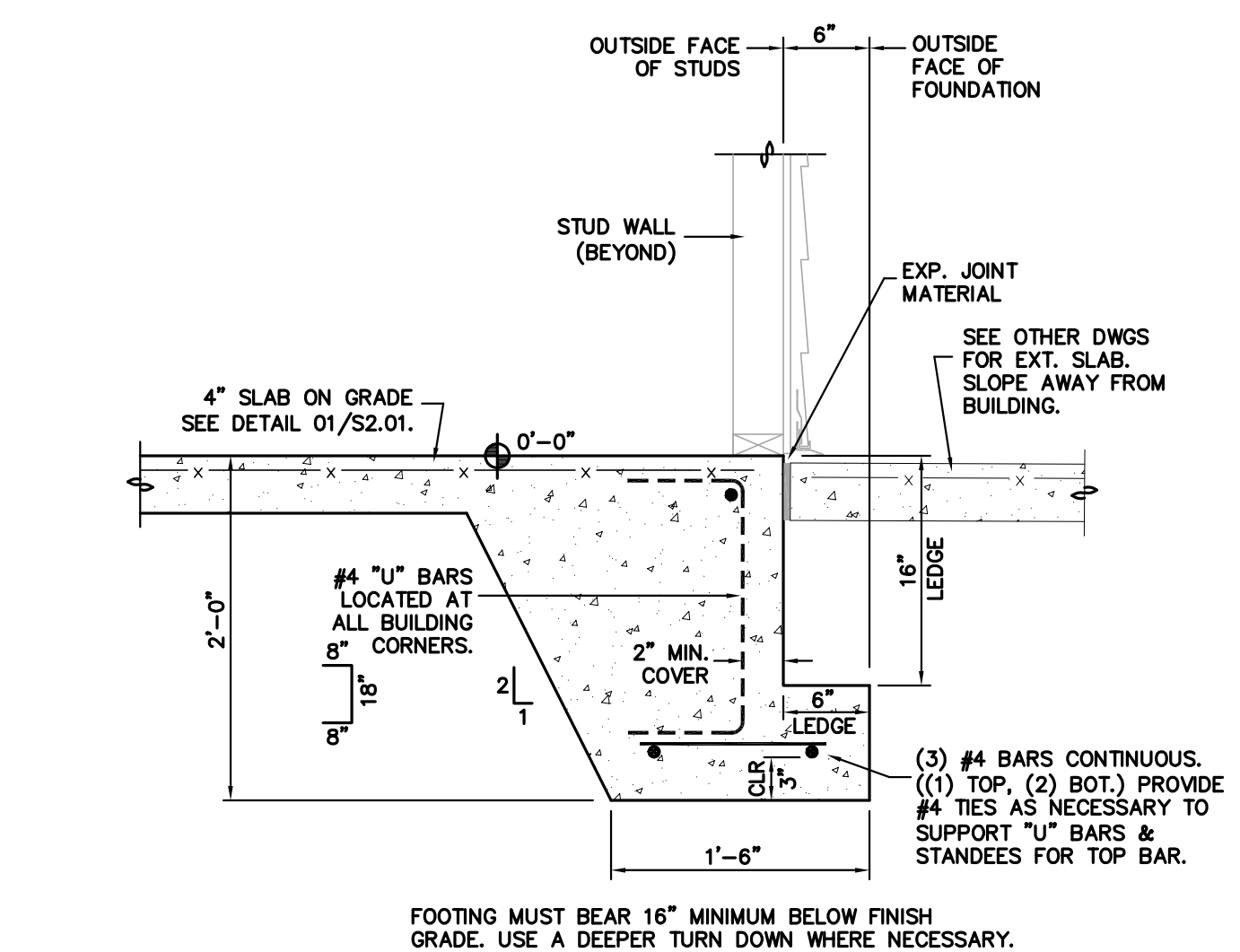
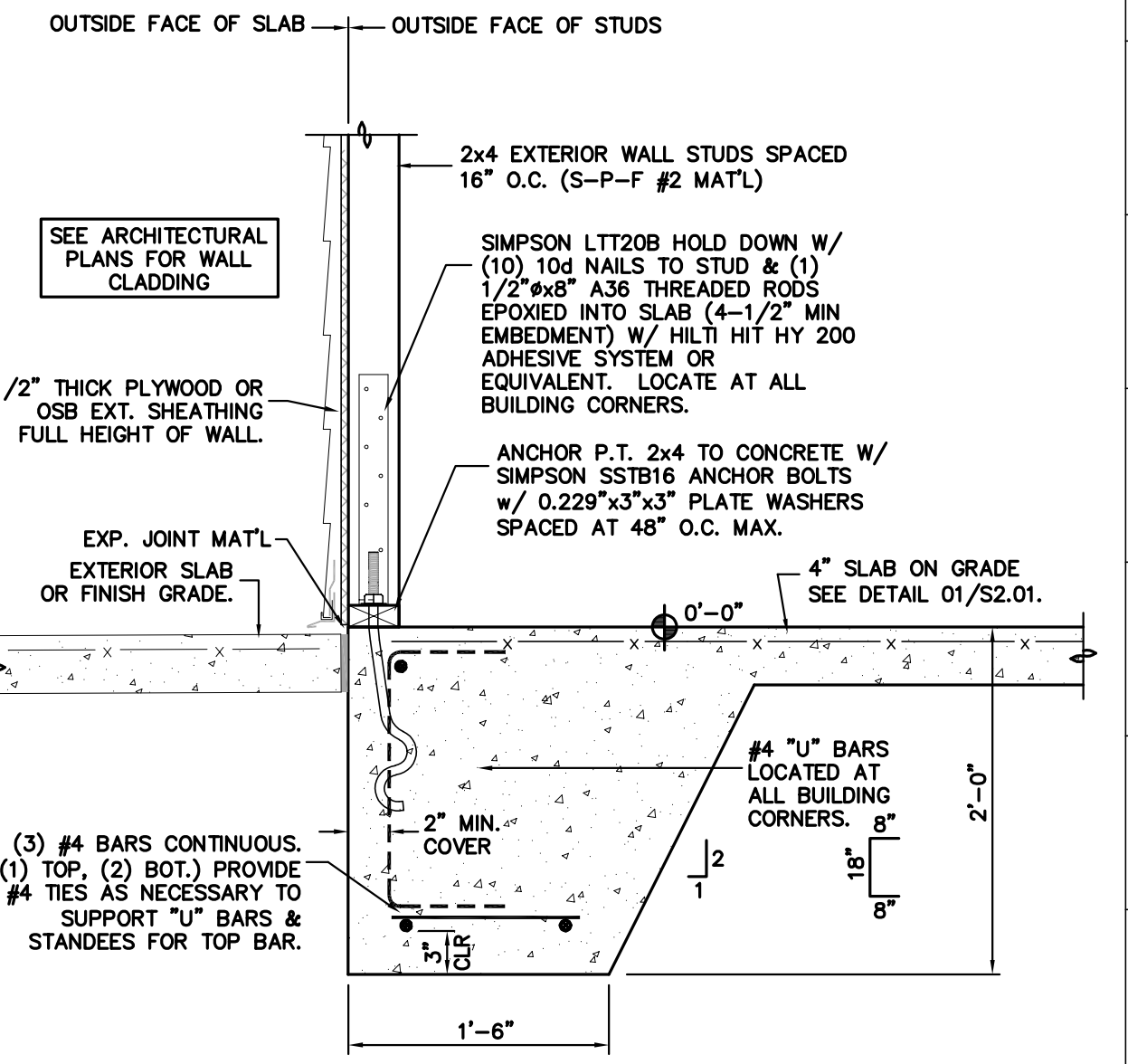
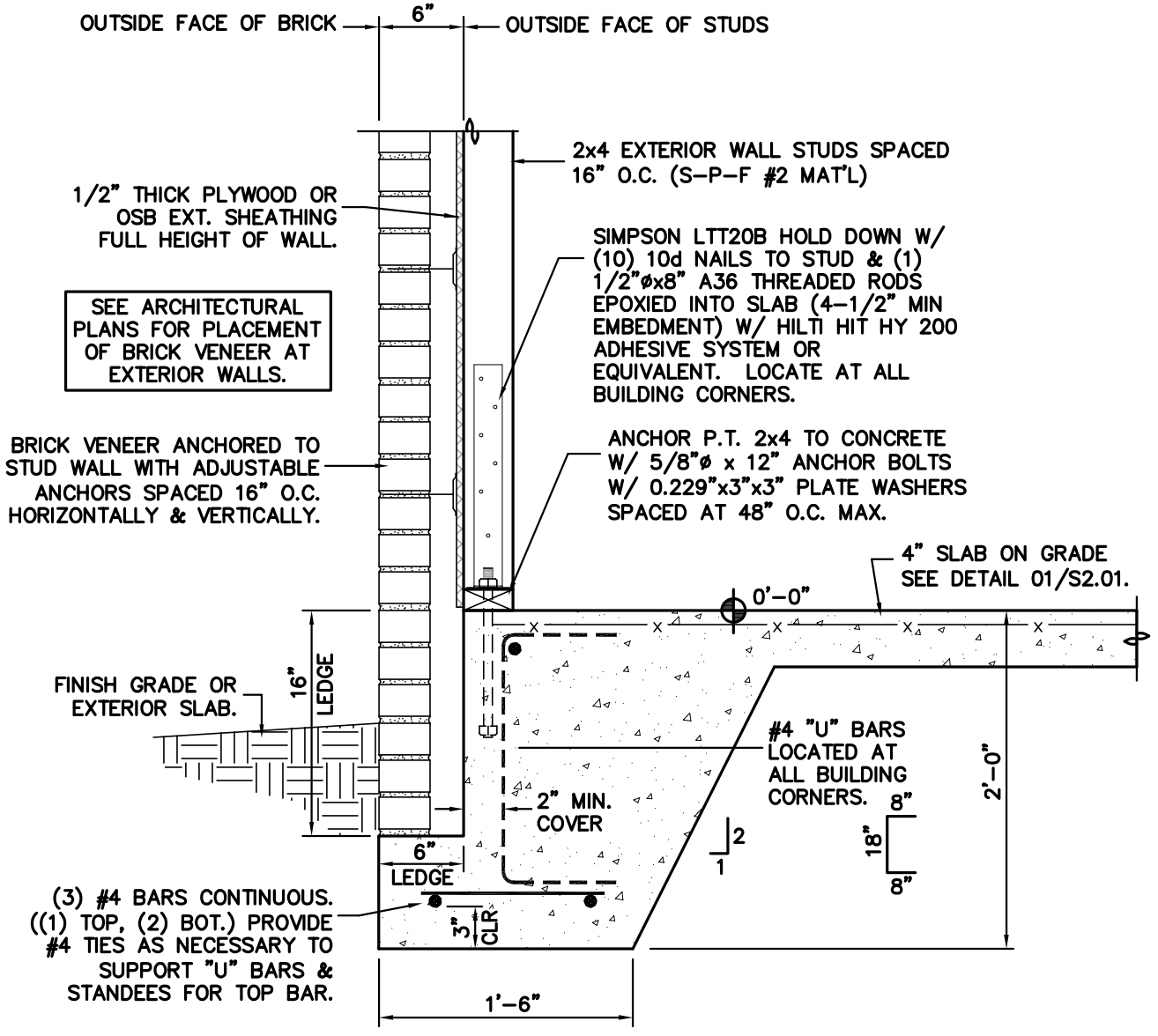
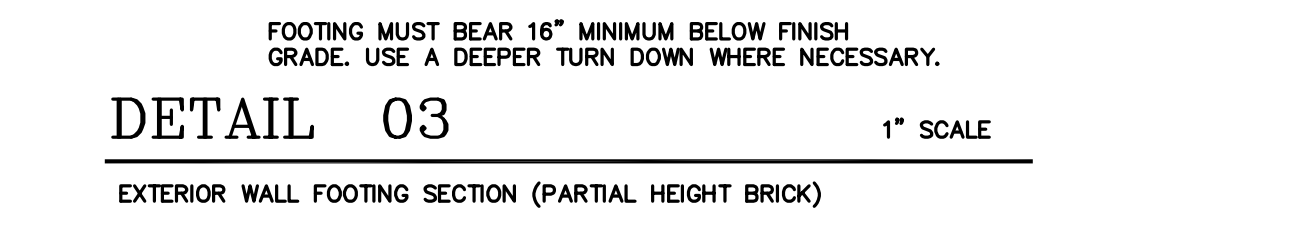
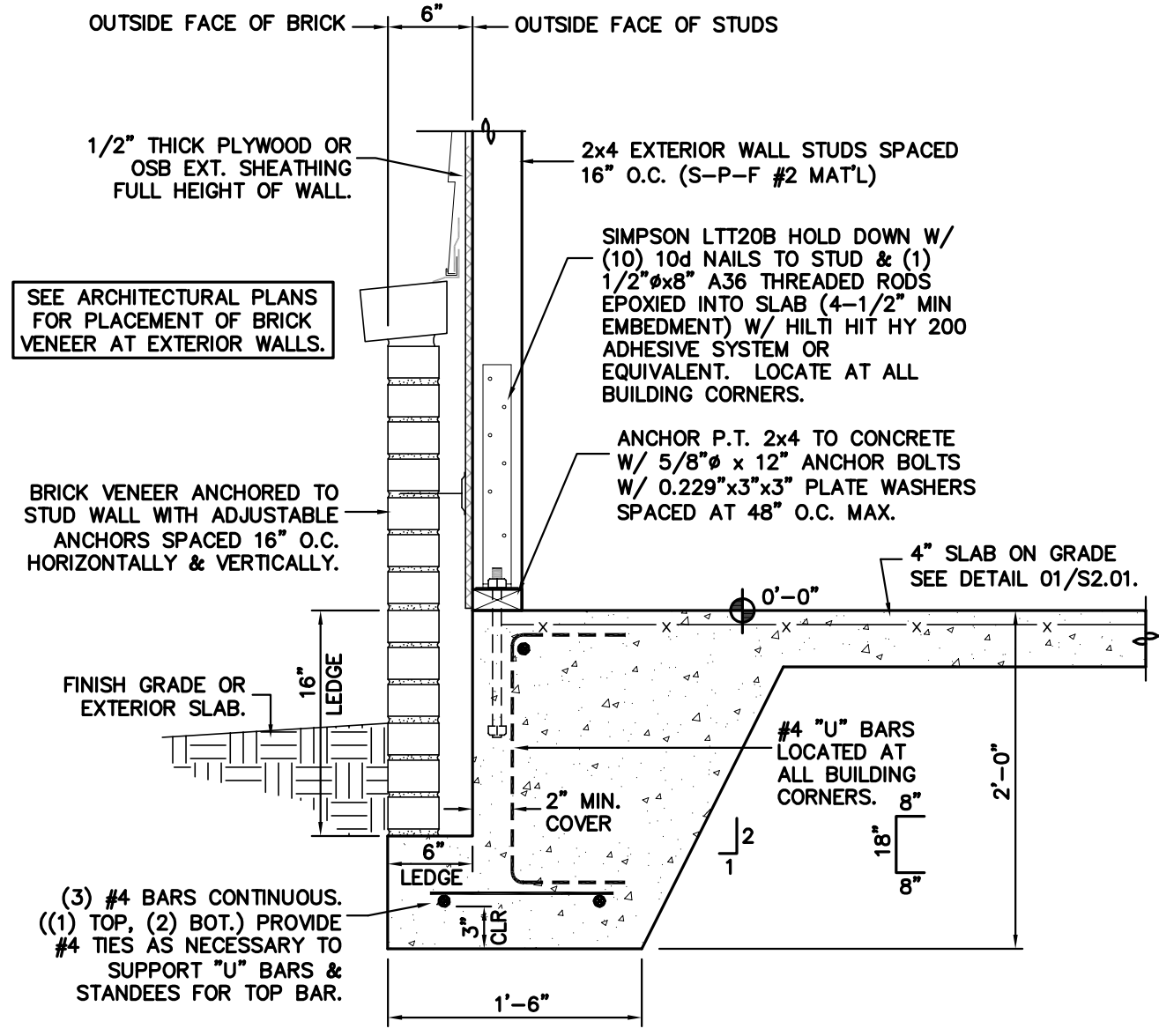
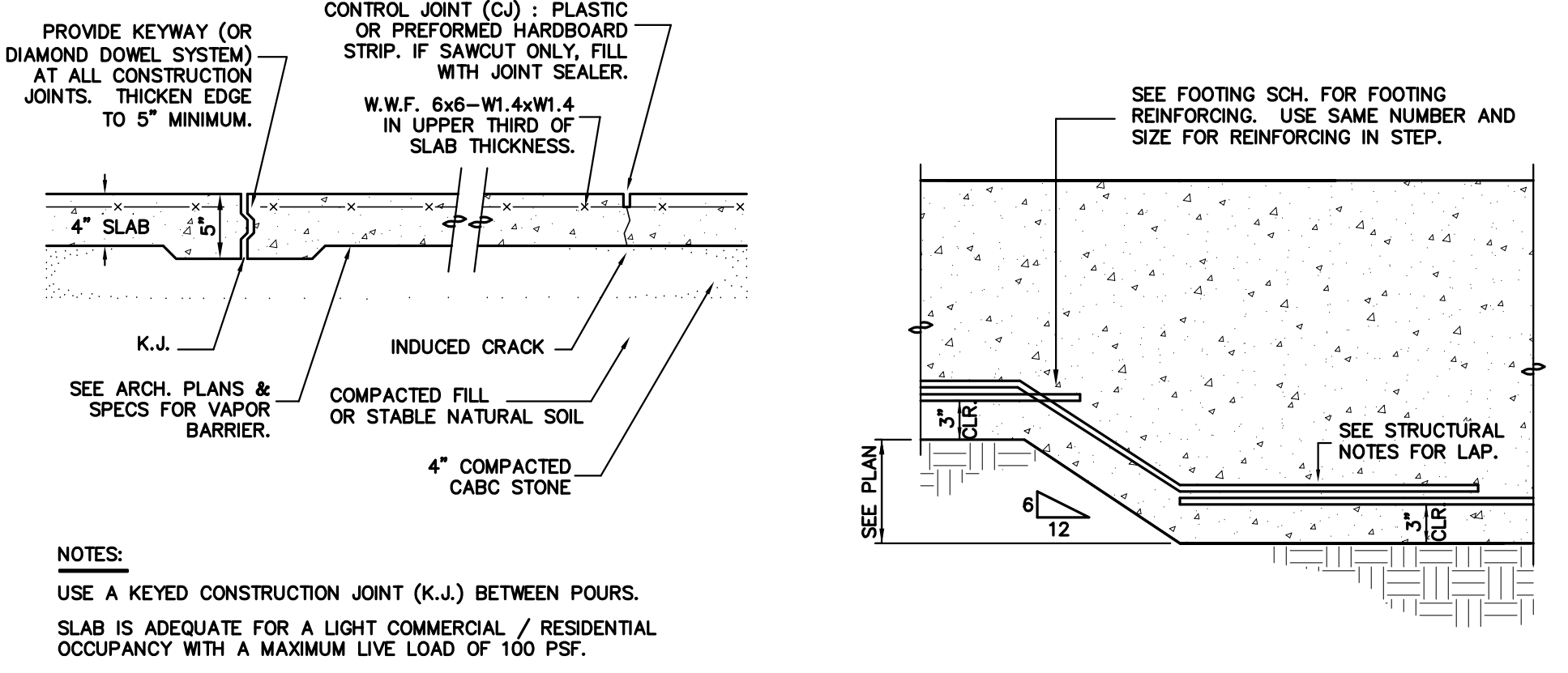
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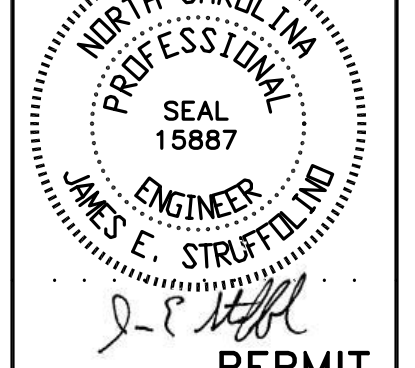
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GENERAL CONTRACTOR NOTE:
 LOCATE AN ANCHOR BOLT WITHIN 12" OF THE END OF ALL WOOD PLATE SECTIONS. ALL ANCHOR BOLTS SHALL HAVE A NUT AND WASHER. ADD 5/8" EPOXIED ANCHORS (3" EMBEDMENT) WHERE NECESSARY. (TYPICAL ALL FOUNDATION DETAILS)

G.C. REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR WALL LOCATIONS AT BATHROOMS WHERE 2x6 STUD FRAMING IS REQUIRED.



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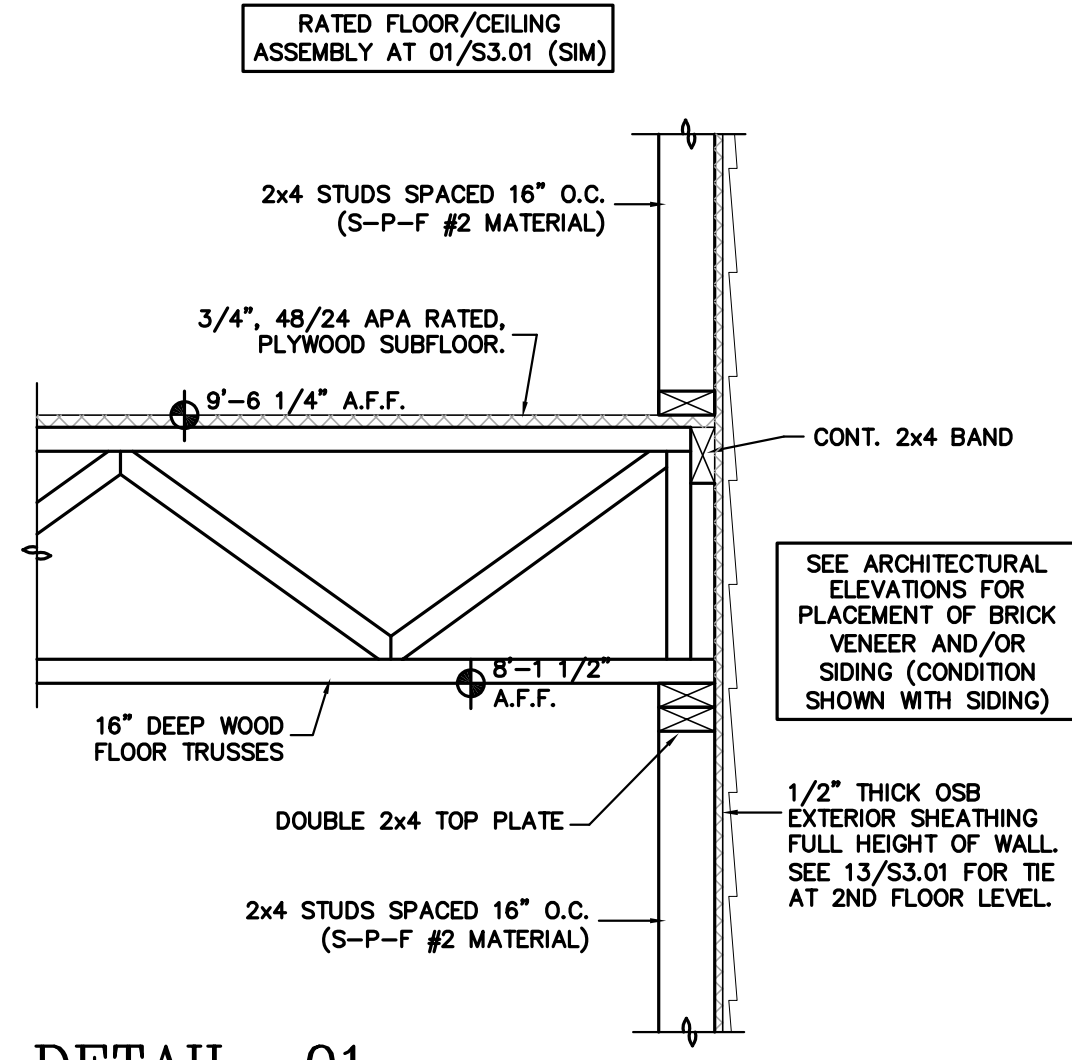
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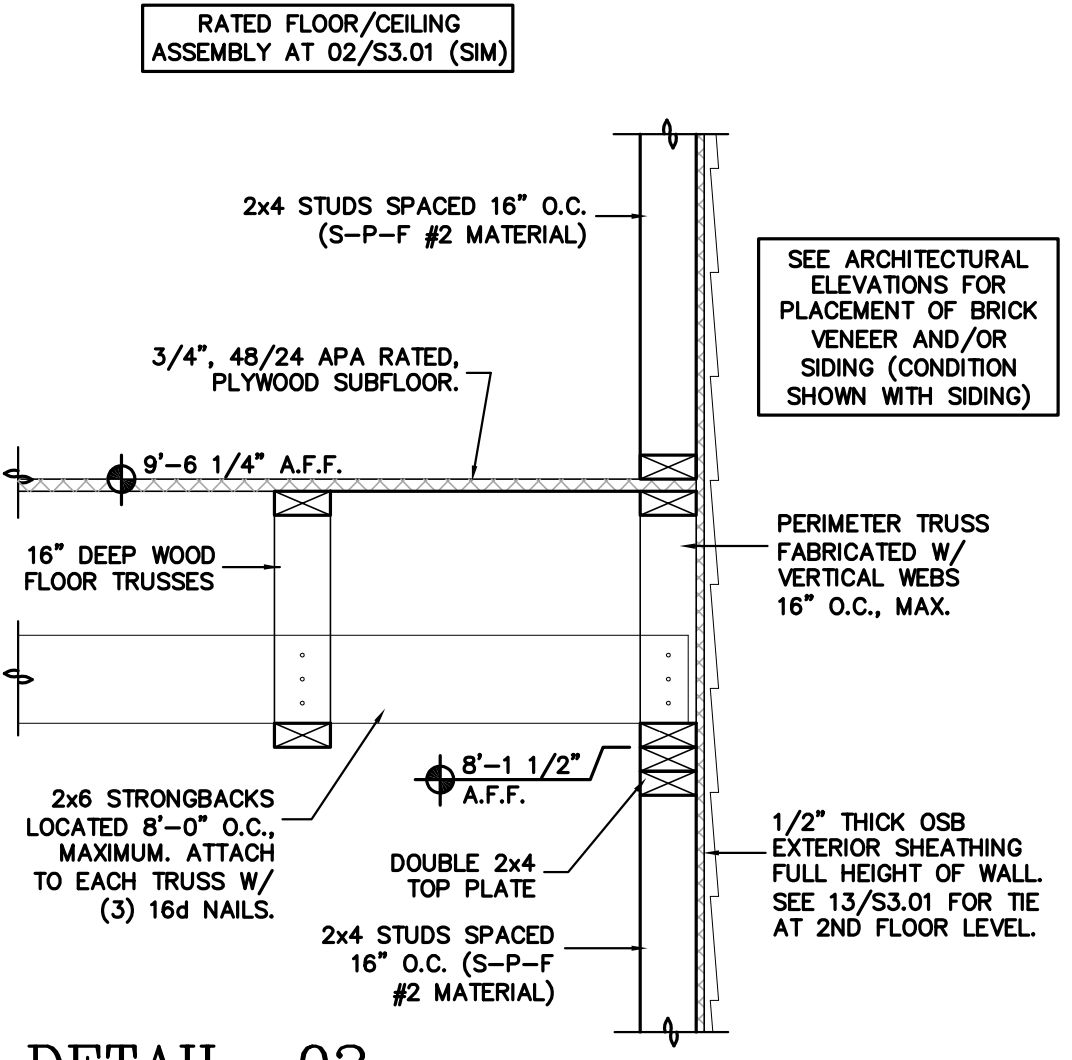
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Foundation Details

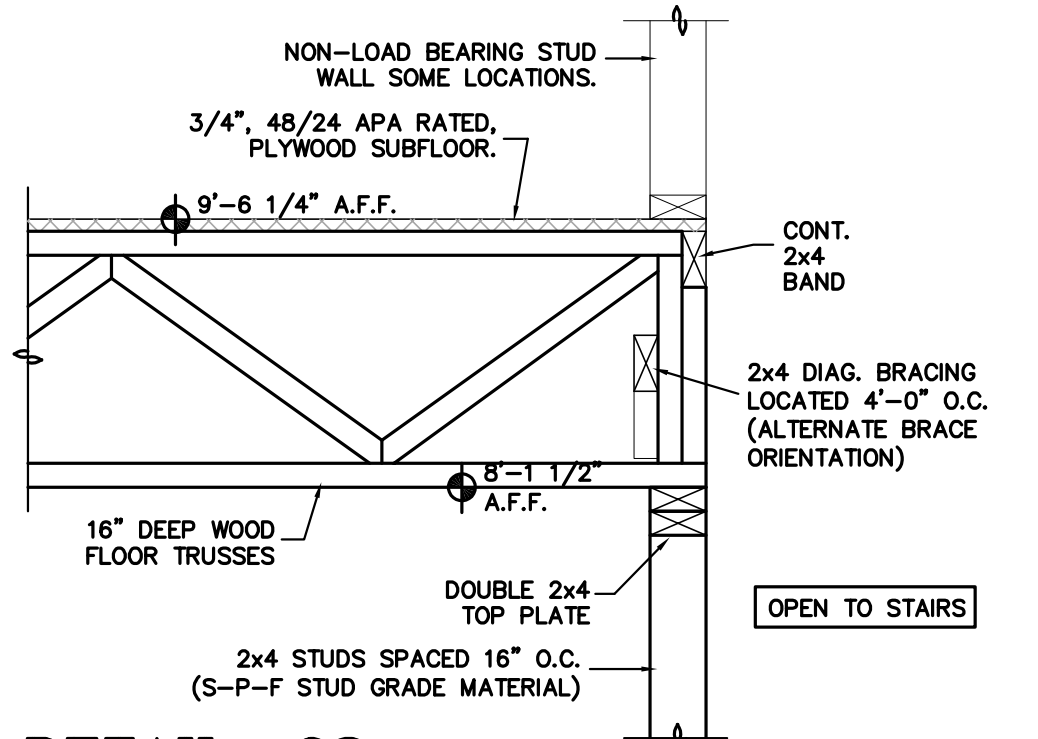
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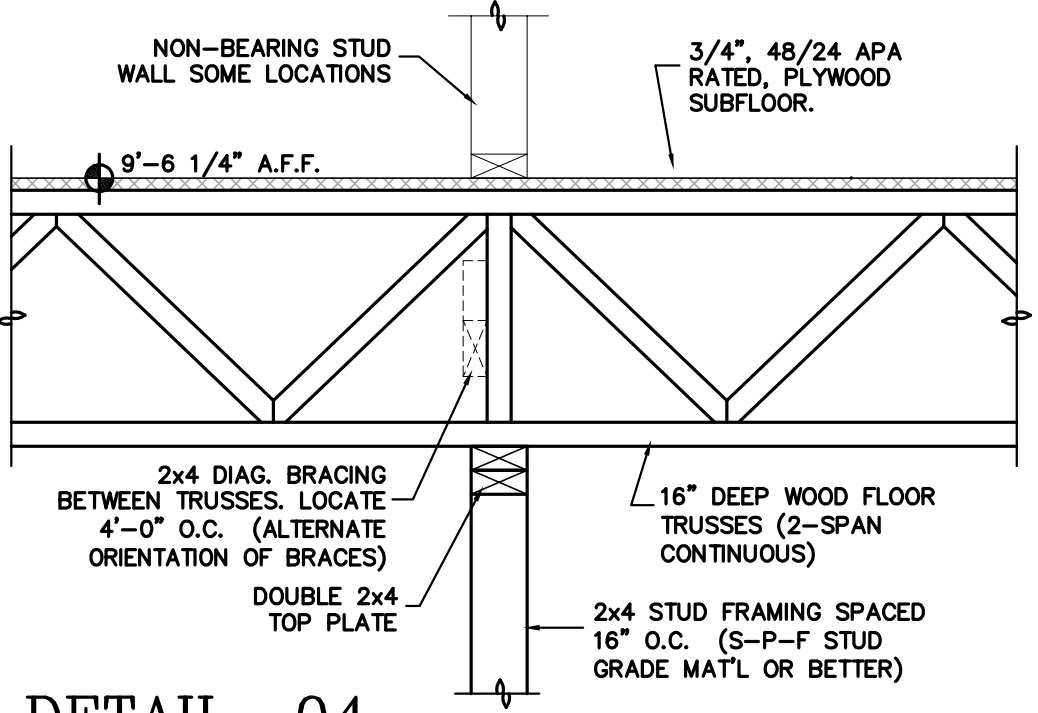
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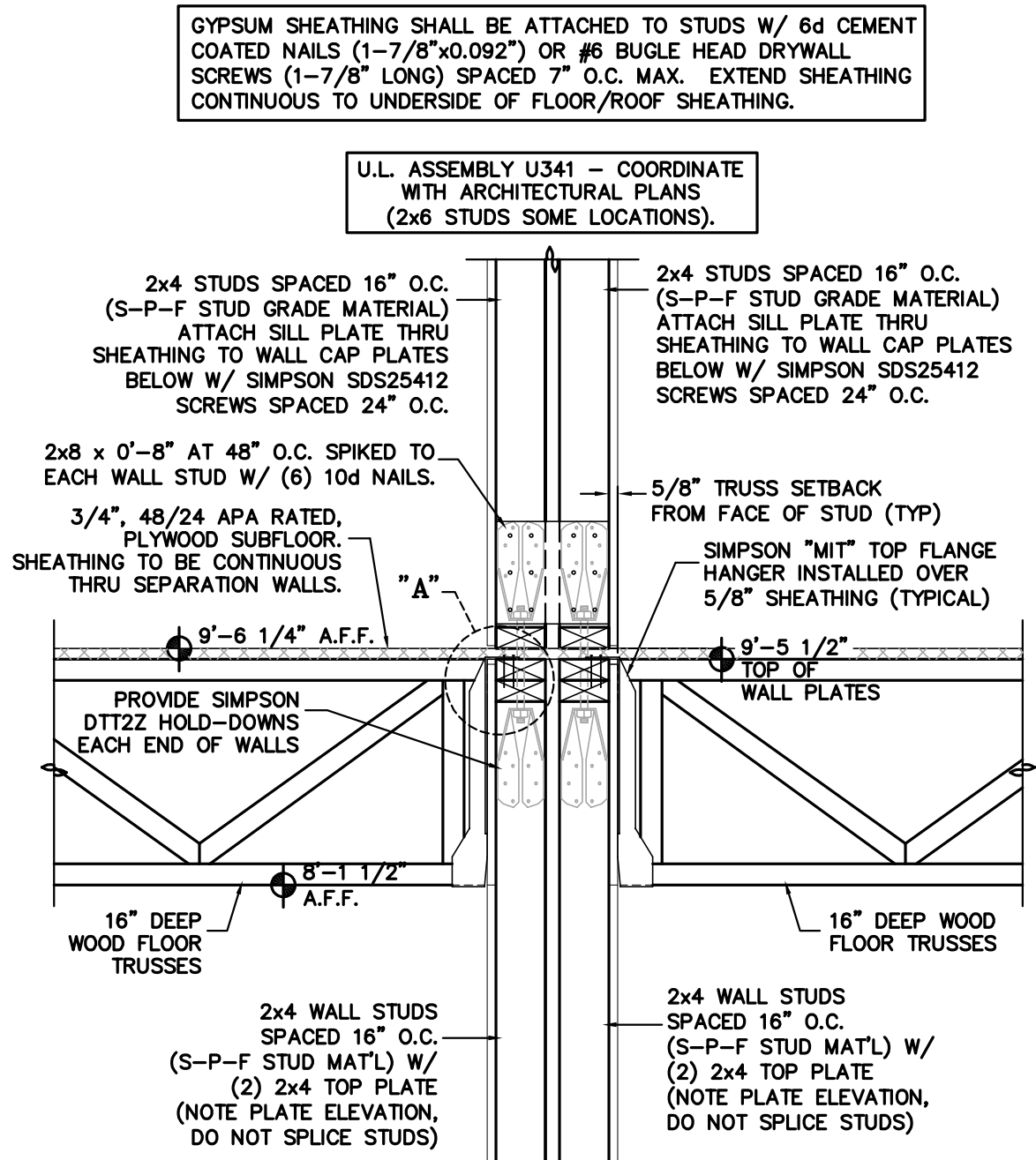
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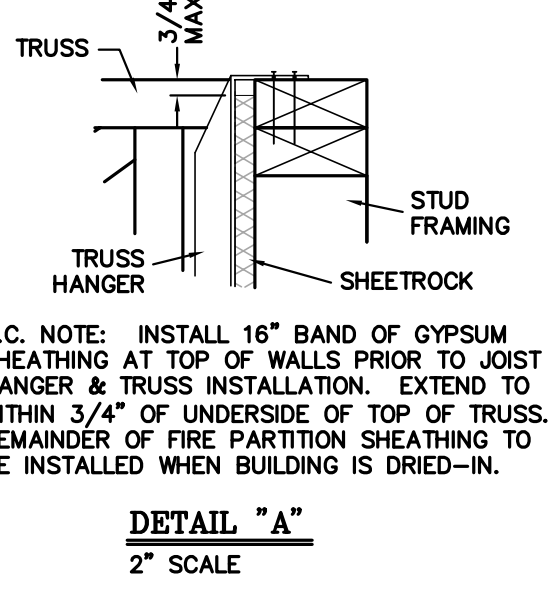
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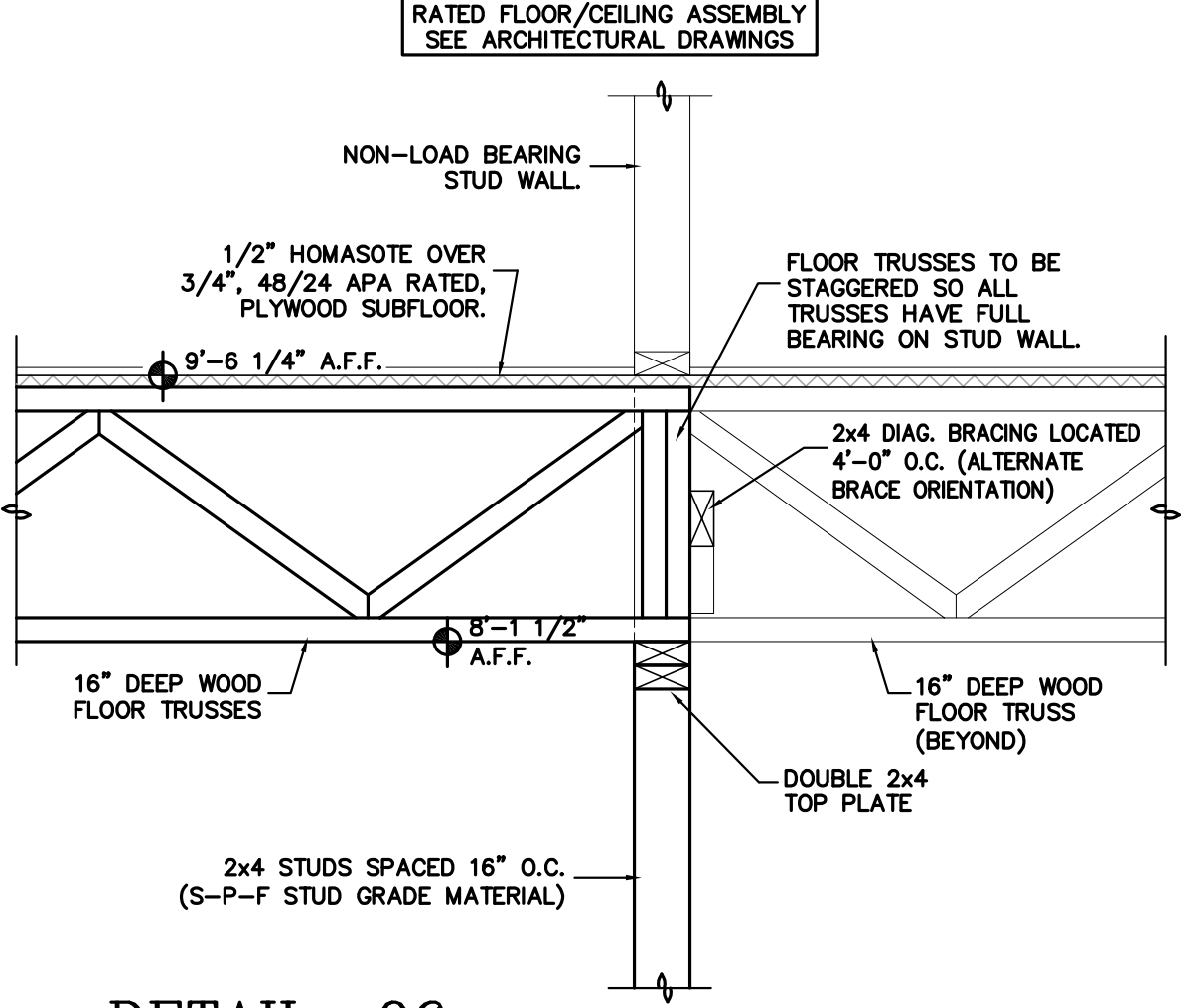
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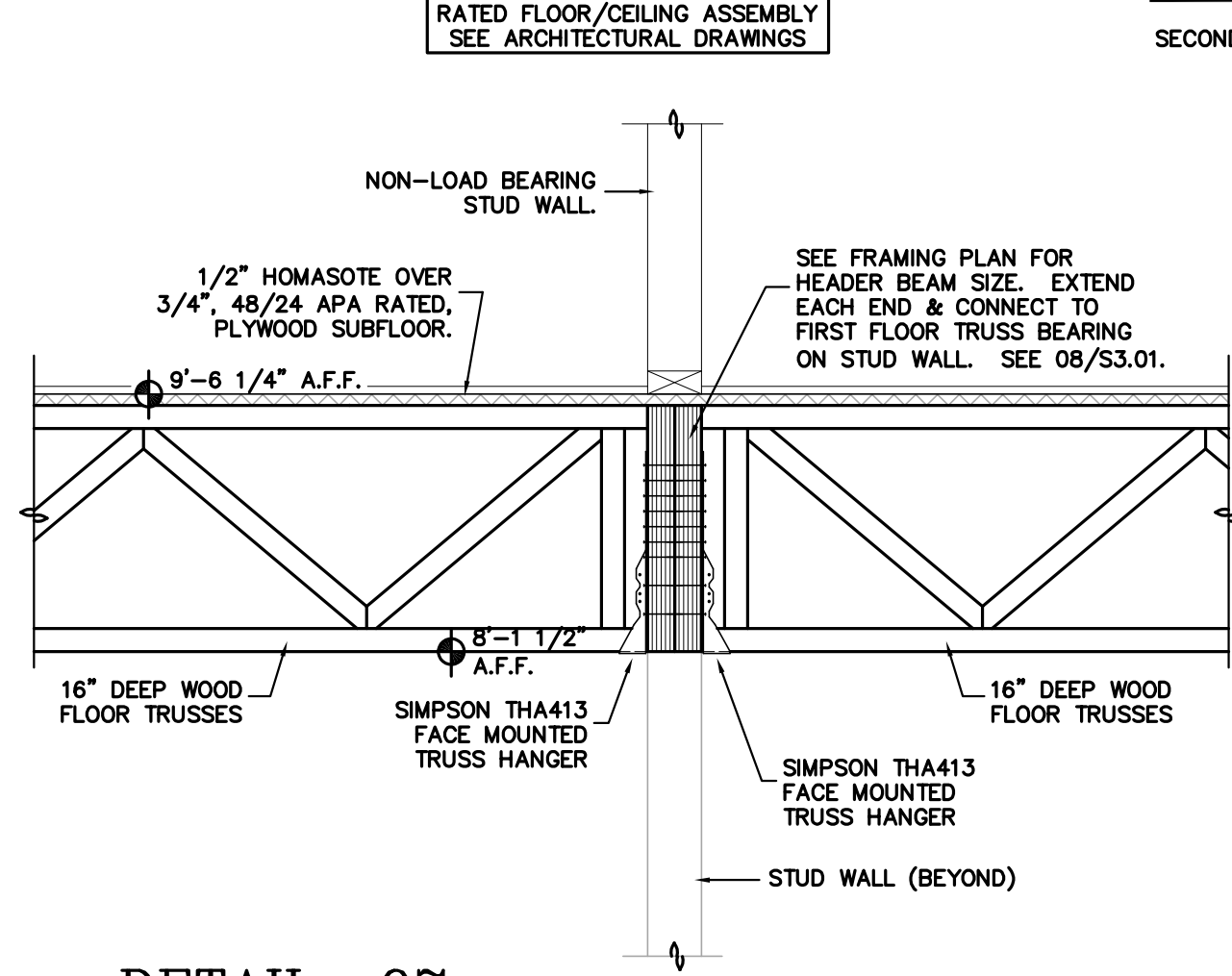
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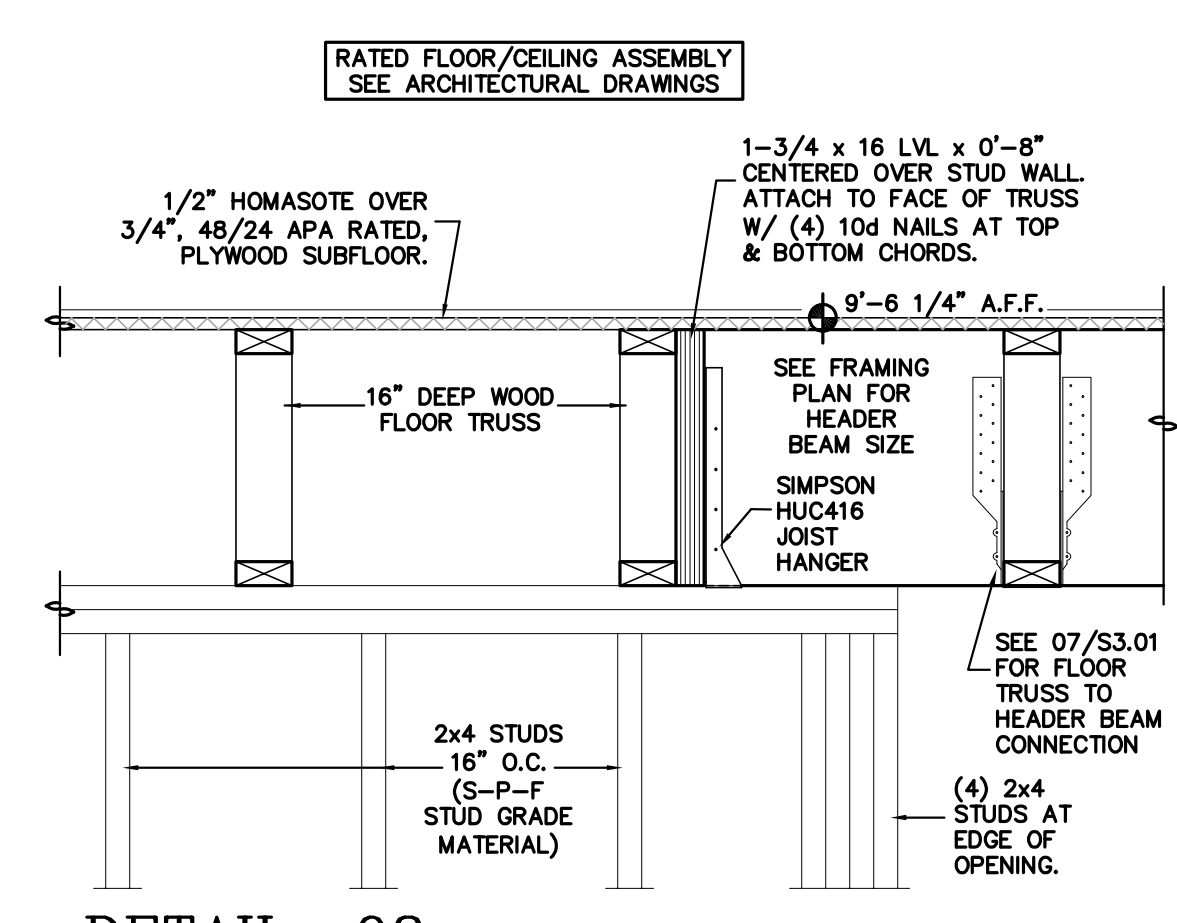
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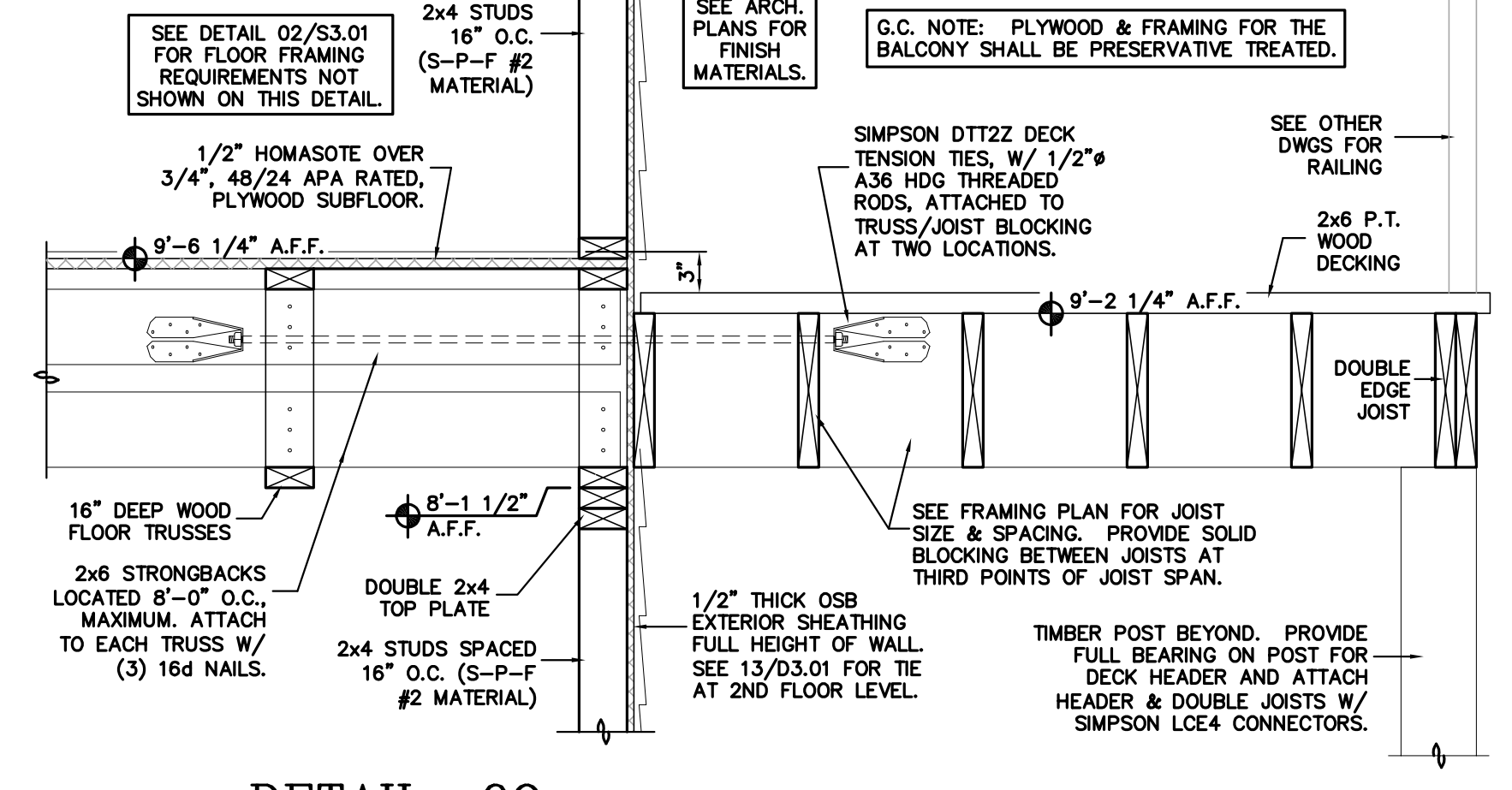
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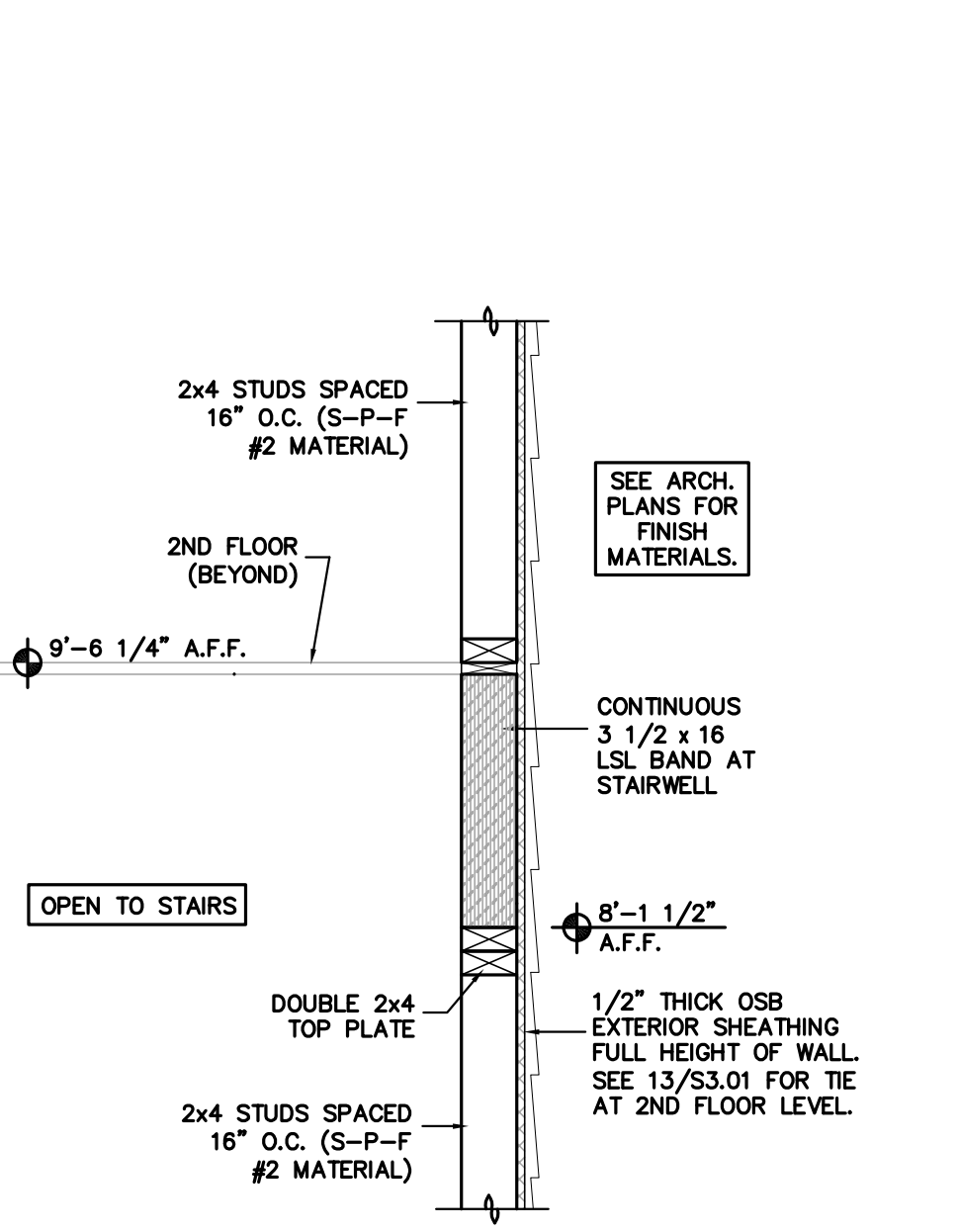
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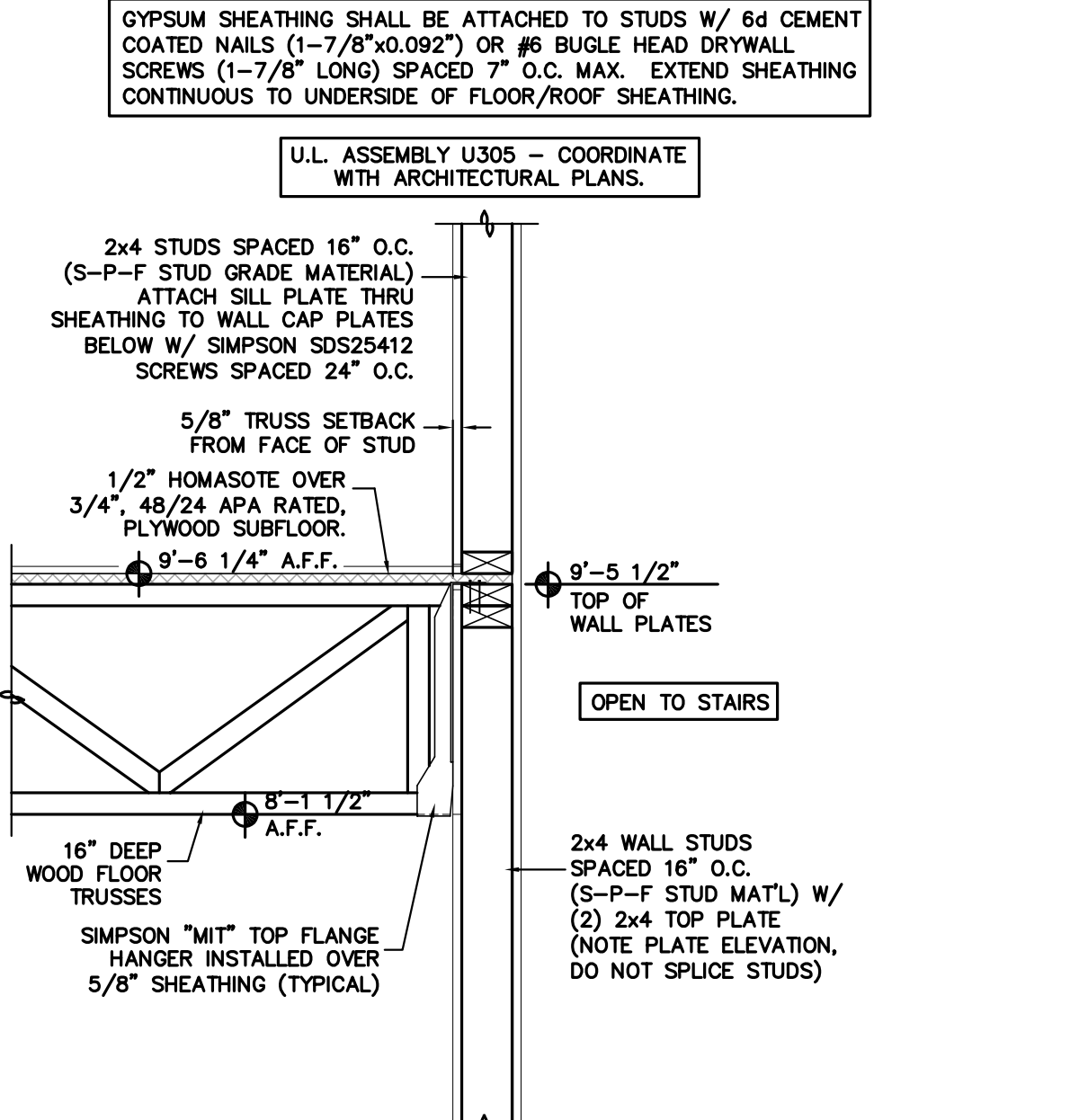
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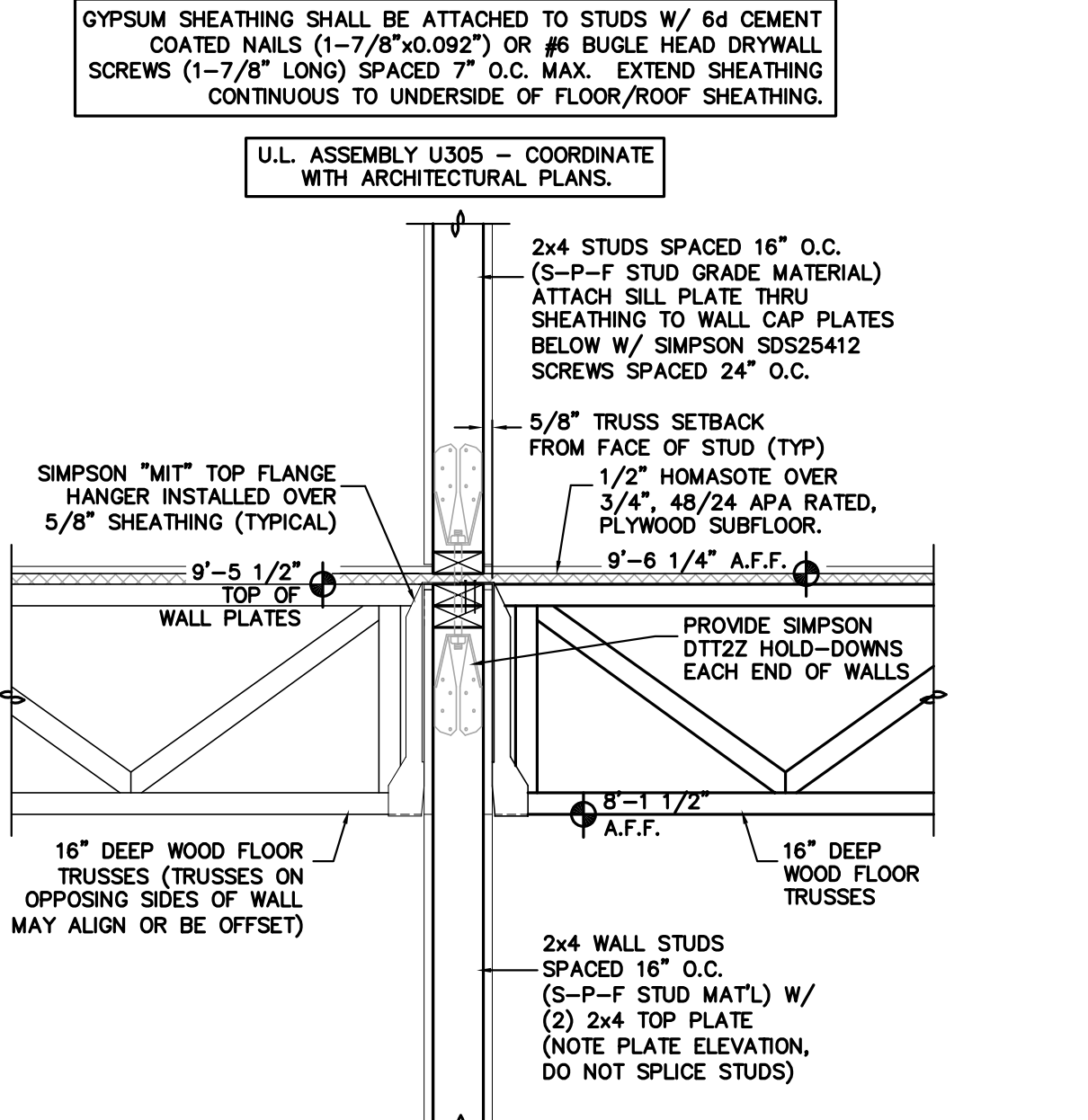
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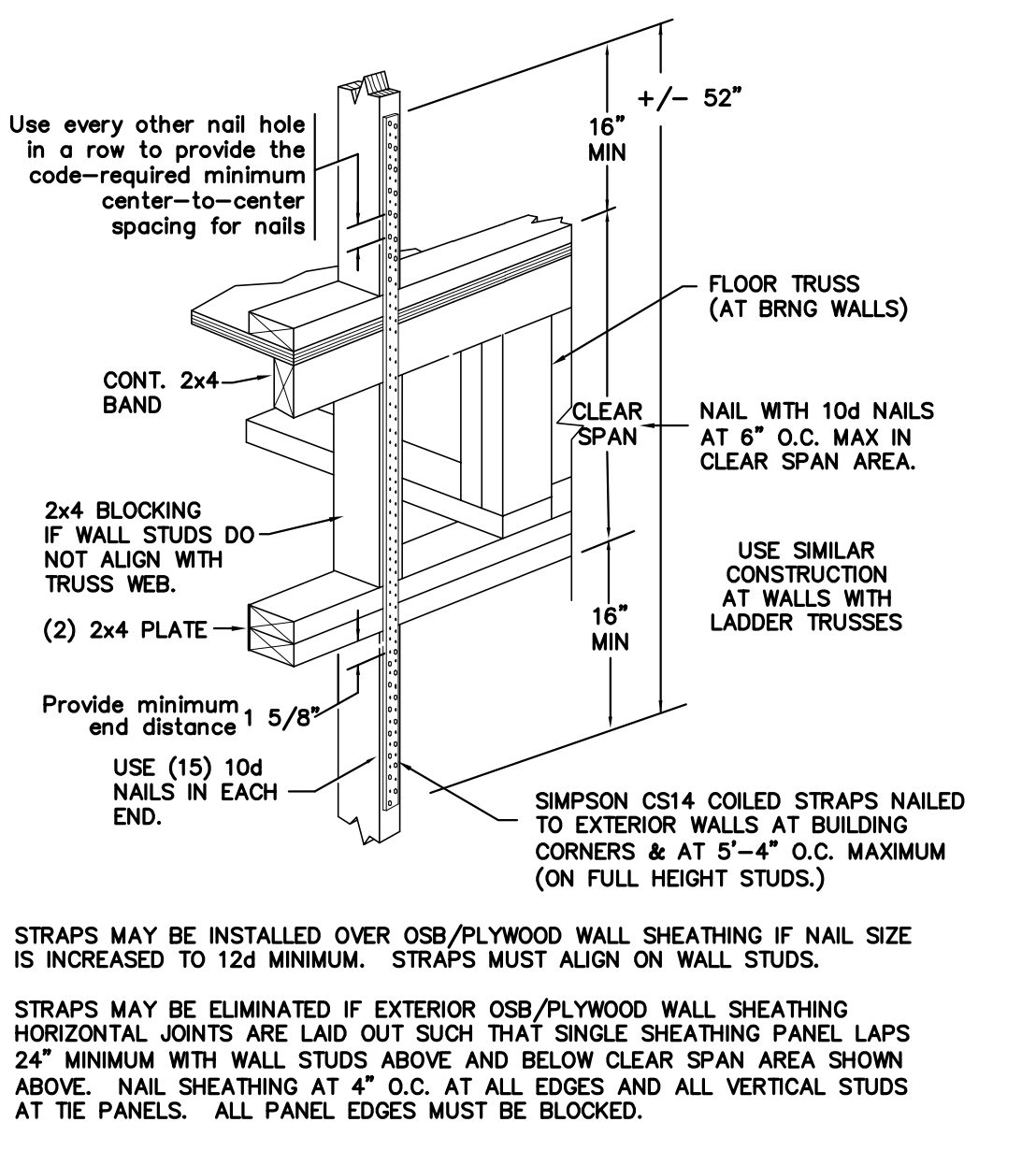
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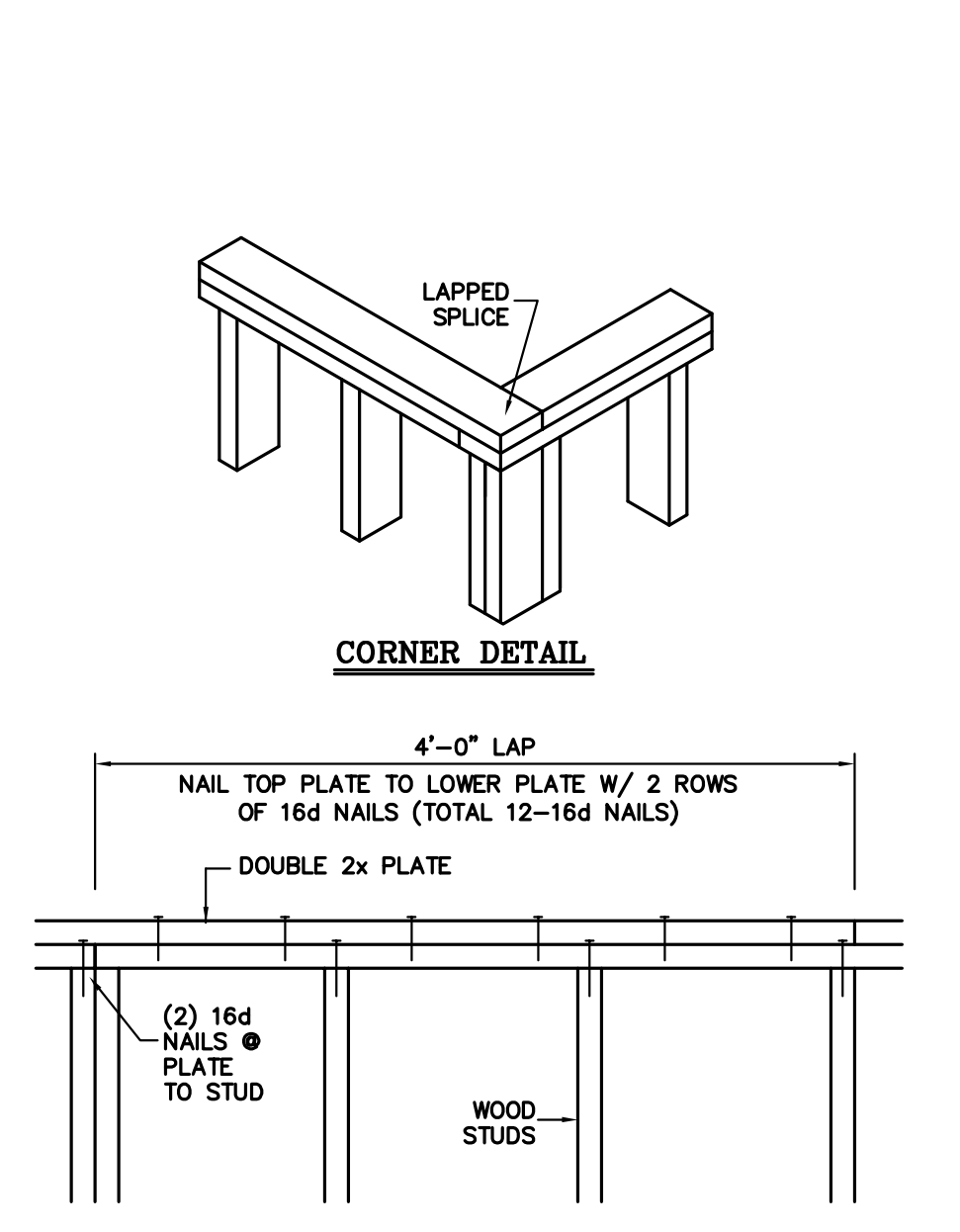
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DETAIL 12
1\"/>



DETAIL 13
NO SCALE



DETAIL 14
1\"/>

GYPSUM SHEATHING SHALL BE ATTACHED TO STUDS W/ 6d CEMENT COATED NAILS (1-7/8\"/>

U.L. ASSEMBLY U341 - COORDINATE WITH ARCHITECTURAL PLANS (2x6 STUDS SOME LOCATIONS).

SEE ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF BRICK VENEER AND/OR SIDING (CONDITION SHOWN WITH SIDING)

SEE ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF BRICK VENEER AND/OR SIDING (CONDITION SHOWN WITH SIDING)

PERIMETER TRUSS FABRICATED W/ VERTICAL WEBS 16\"/>

OPEN TO STAIRS

RATED FLOOR/CEILING ASSEMBLY SEE ARCHITECTURAL DRAWINGS

RATED FLOOR/CEILING ASSEMBLY SEE ARCHITECTURAL DRAWINGS

RATED FLOOR/CEILING ASSEMBLY SEE ARCHITECTURAL DRAWINGS

SEE DETAIL 02/S3.01 FOR FLOOR FRAMING REQUIREMENTS NOT SHOWN ON THIS DETAIL.

G.C. NOTE: PLYWOOD & FRAMING FOR THE BALCONY SHALL BE PRESERVATIVE TREATED.

GYPSUM SHEATHING SHALL BE ATTACHED TO STUDS W/ 6d CEMENT COATED NAILS (1-7/8\"/>

GYPSUM SHEATHING SHALL BE ATTACHED TO STUDS W/ 6d CEMENT COATED NAILS (1-7/8\"/>

U.L. ASSEMBLY U305 - COORDINATE WITH ARCHITECTURAL PLANS.

U.L. ASSEMBLY U305 - COORDINATE WITH ARCHITECTURAL PLANS.

Use every other nail hole in a row to provide the code-required minimum center-to-center spacing for nails

2x4 STUDS SPACED 16\"/>

ATTACH SILL PLATE THRU SHEATHING TO WALL CAP PLATES BELOW W/ SIMPSON SDS25412 SCREWS SPACED 24\"/>

5/8\"/>

1/2\"/>

3/4\"/>

9\"/>

16\"/>

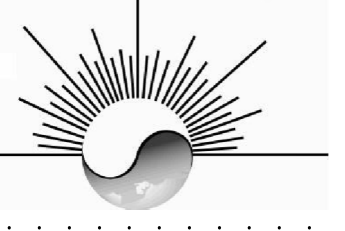
16\"/>

2x4 WALL STUDS SPACED 16\"/>

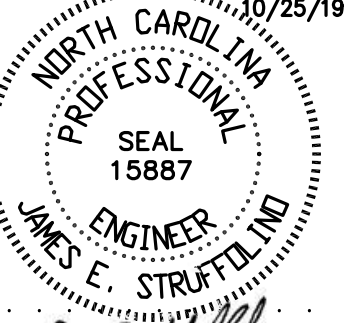
STRAPS MAY BE INSTALLED OVER OSB/PLYWOOD WALL SHEATHING IF NAIL SIZE IS INCREASED TO 12d MINIMUM. STRAPS MUST ALIGN ON WALL STUDS.

STRAPS MAY BE ELIMINATED IF EXTERIOR OSB/PLYWOOD WALL SHEATHING HORIZONTAL JOINTS ARE LAID OUT SUCH THAT SINGLE SHEATHING PANEL LAPS 24\"/>

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PERMIT SET

Meredith Square Phase 3
Apartments
BUIES CREEK, N.C.
CLIENT: MEREDITH SQUARE LLC

SCO NO.: 19M01
DWG NO.: 1222153.01.dwg
DRAWN BY: JES
DATE: 10/25/19

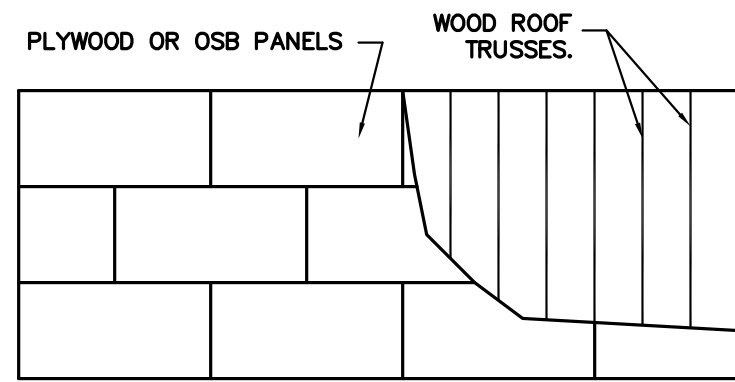
REVISIONS

Floor Framing Details

S3.01

ROOF SHEATHING INSTALLATION NOTES :
 THE ROOF SHEATHING SHALL BE 5/8" THICK, 40/20 APA RATED CDX PLYWOOD OR OSB. FASTEN SHEATHING TO ROOF TRUSSES AND OTHER SUPPORTS WITH 10d NAILS SPACED 6" O.C. AT PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORT LOCATIONS.

ORIENT ROOF SHEATHING PANELS AS SHOWN BELOW:

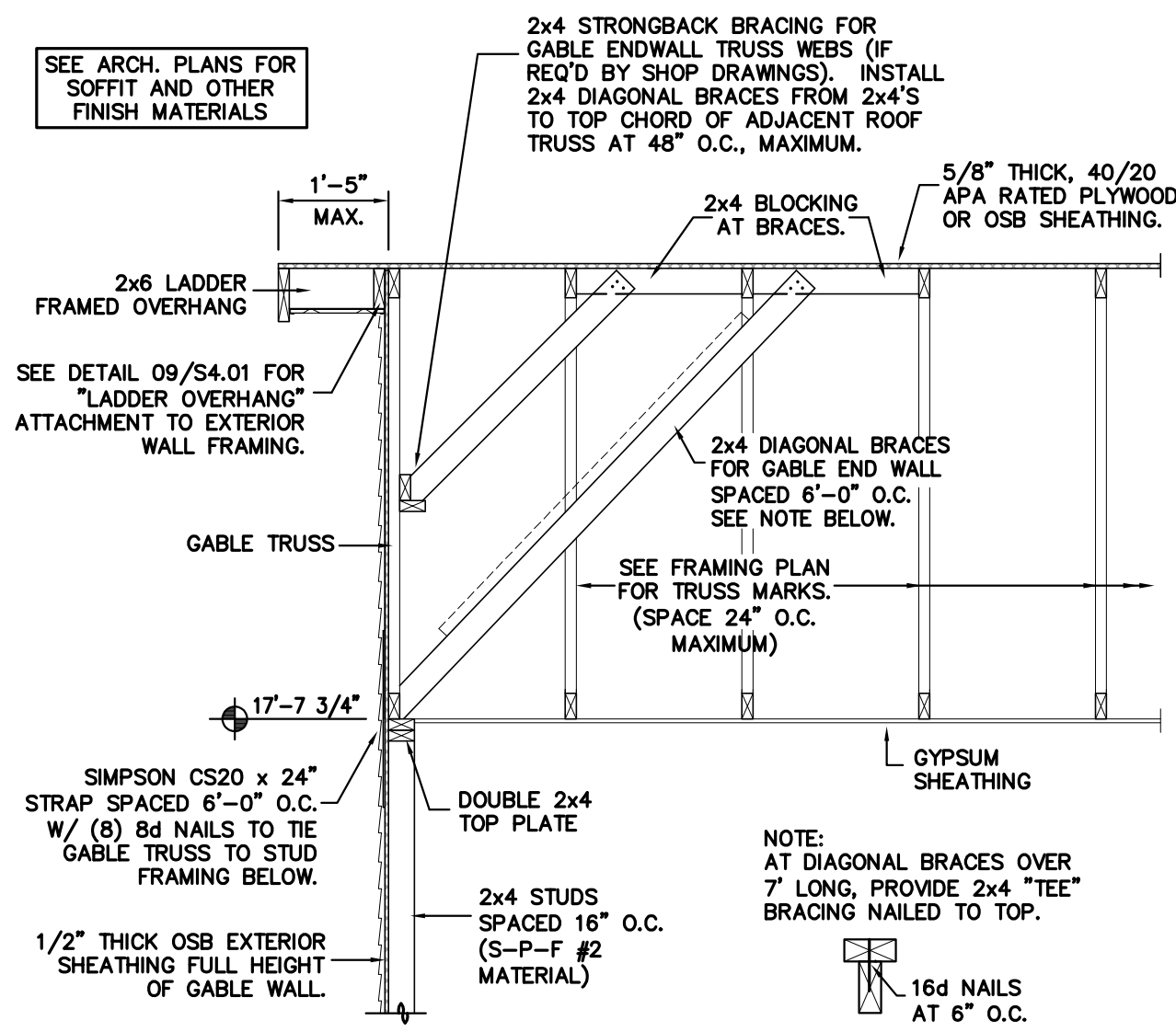


DETAIL 01

NO SCALE

ROOF SHEATHING ATTACHMENT

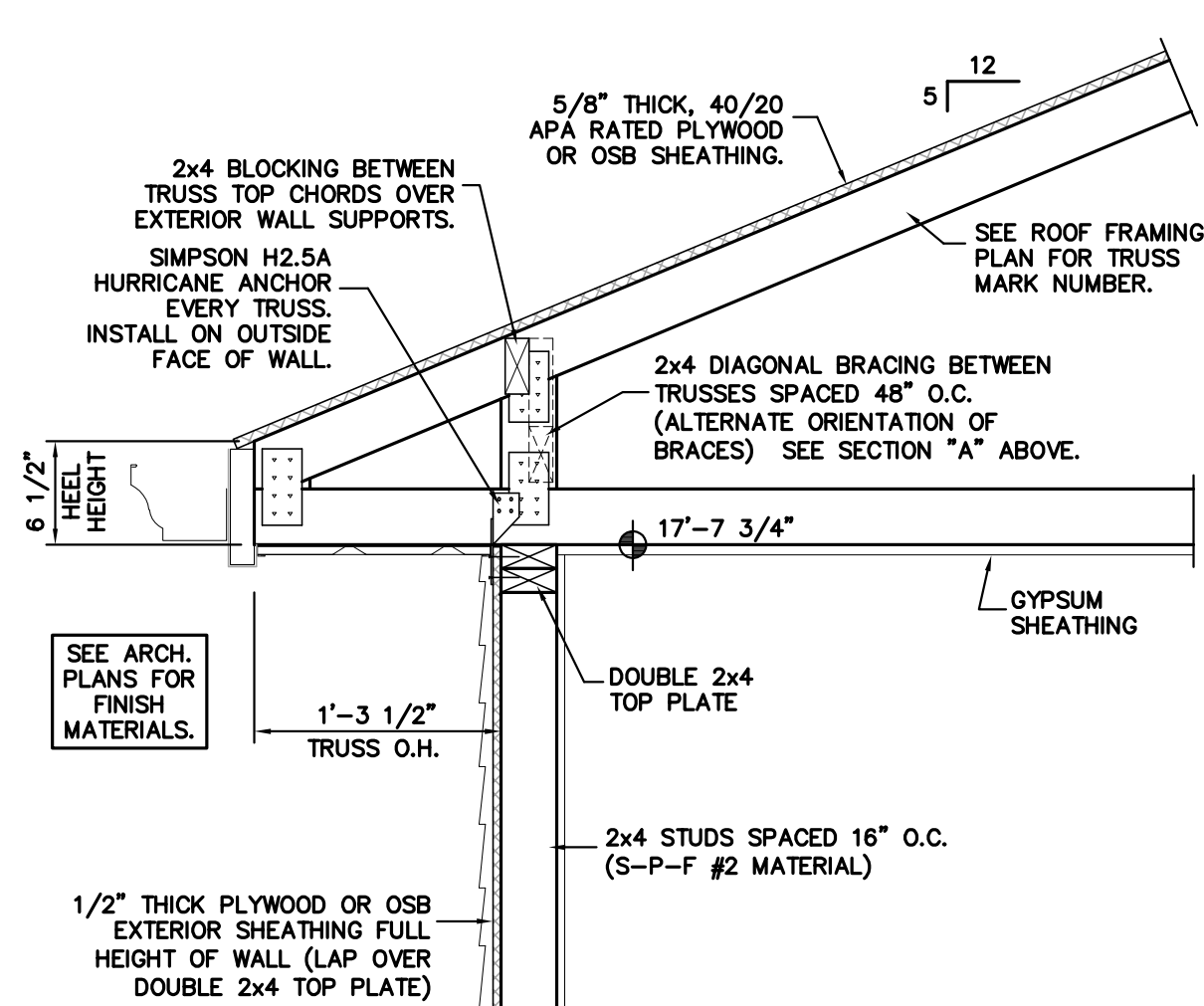
G.C. REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR WALL LOCATIONS WHERE 2x6 STUD FRAMING IS REQUIRED. PROVIDE (2) 2x6 CAP PLATE.



DETAIL 05

1/2" SCALE

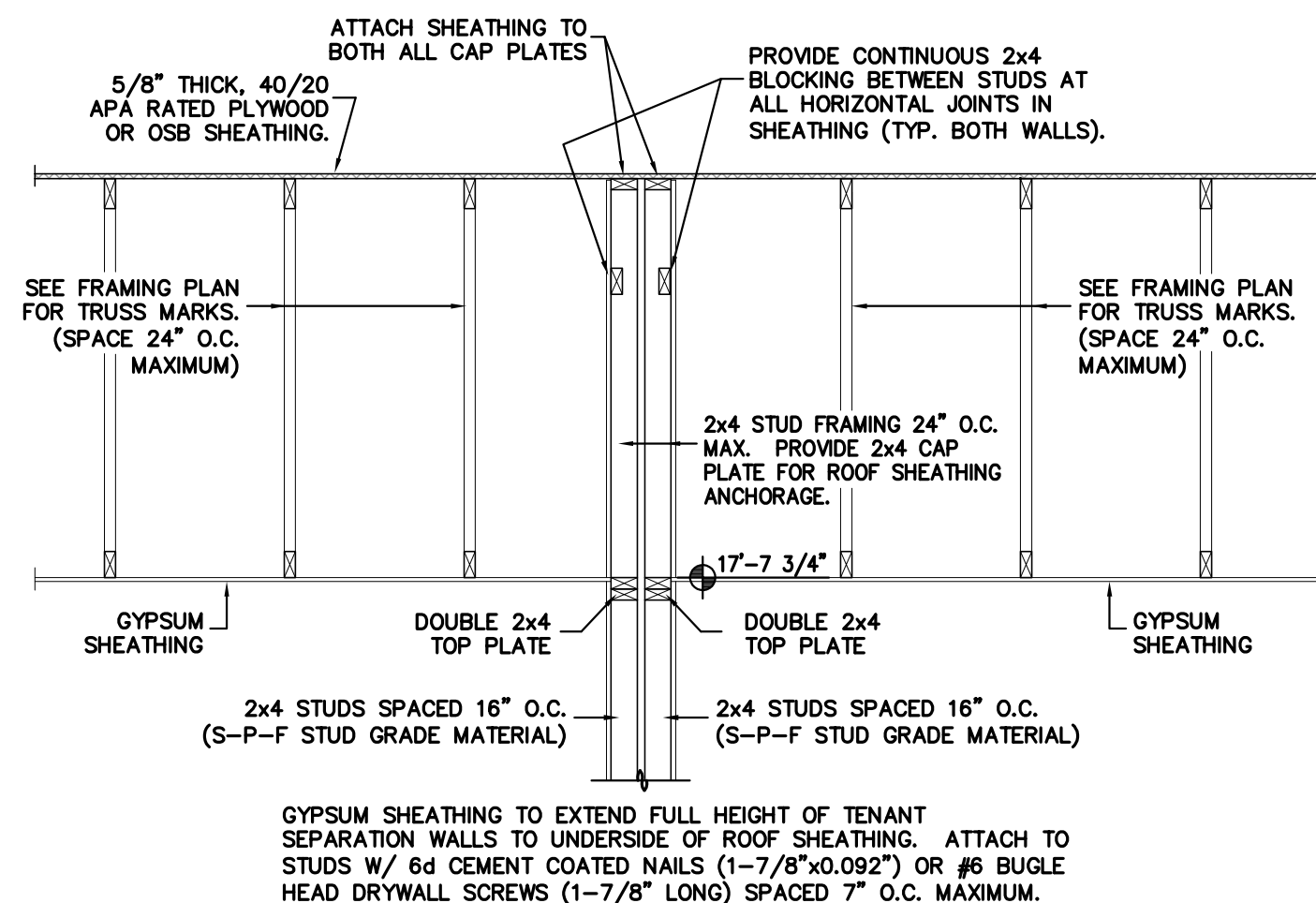
ROOF FRAMING SECTION AT EXTERIOR WALL



DETAIL 02

1" SCALE

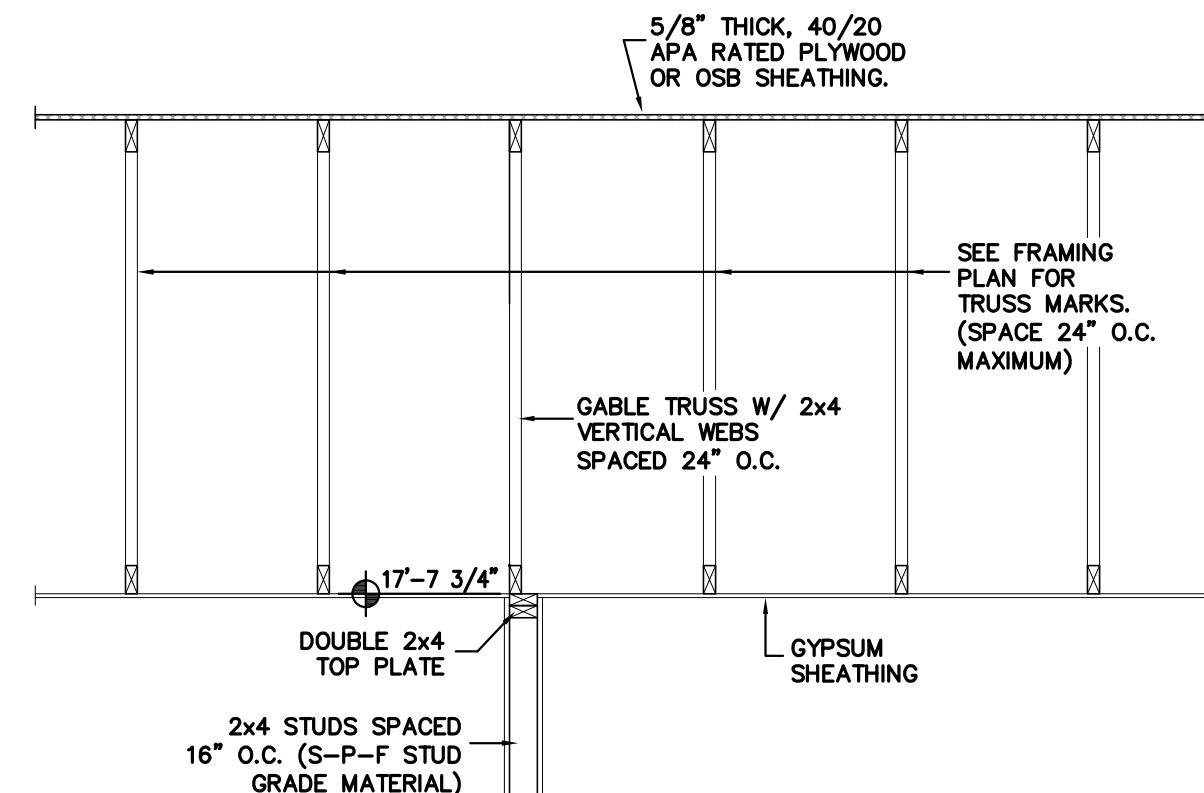
ROOF TRUSS BEARING AT EXTERIOR STUD WALLS



DETAIL 06

1/2" SCALE

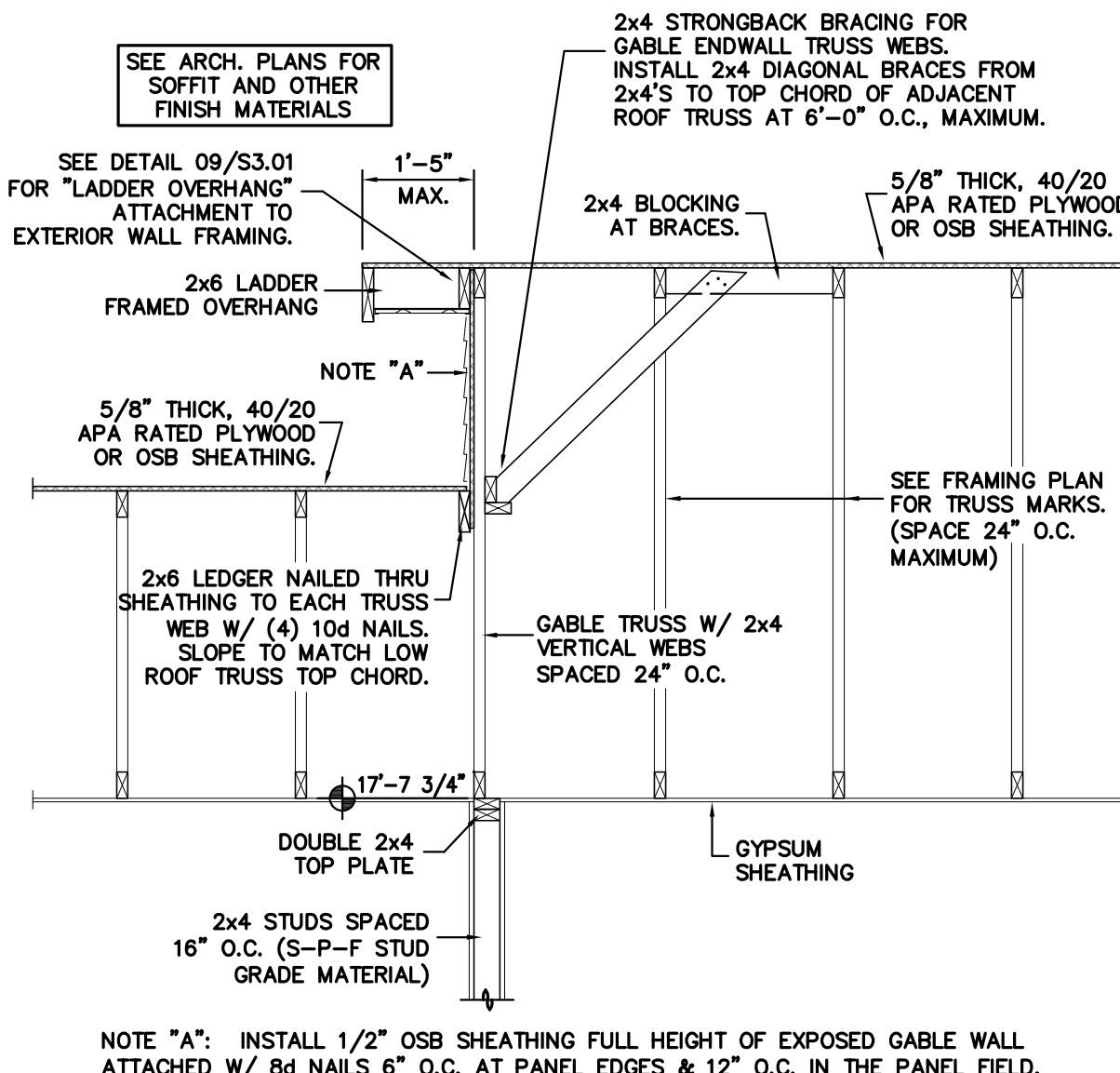
ROOF FRAMING SECTION AT TENANT SEPARATION WALLS (BUILDING SHEAR WALLS)



DETAIL 03

1/2" SCALE

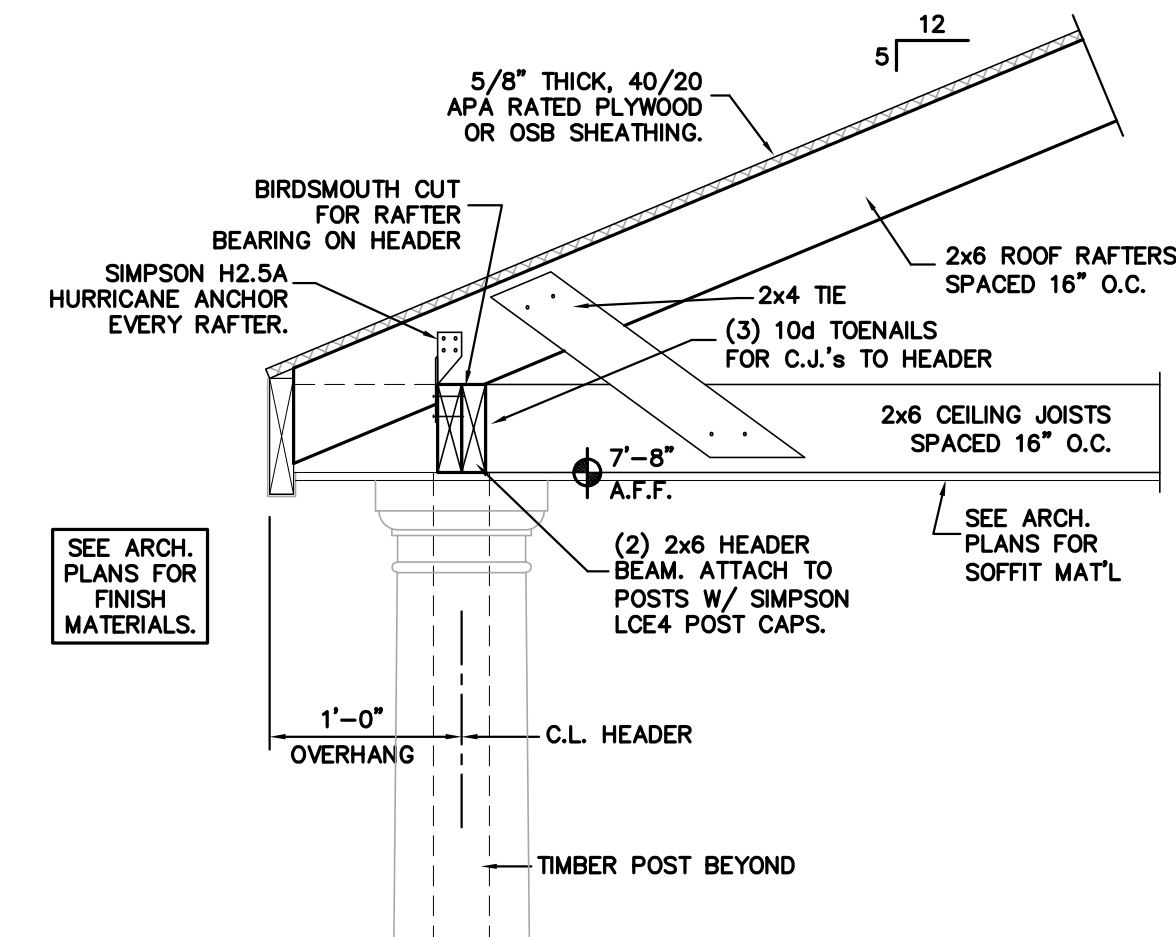
ROOF FRAMING SECTION OVER ADA UNIT



DETAIL 07

1/2" SCALE

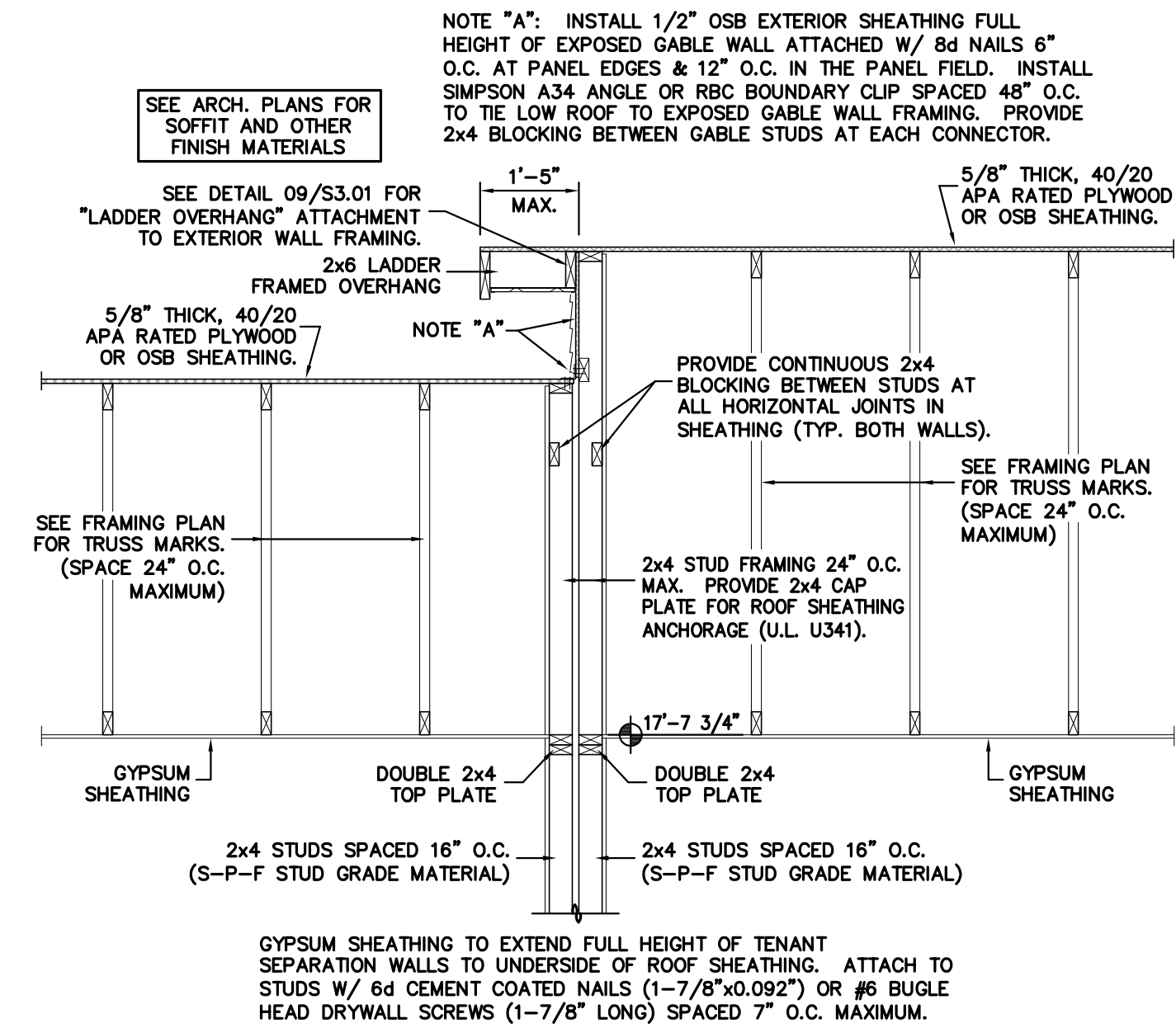
ROOF FRAMING SECTION AT TRANSITION BETWEEN PITCHED ROOFS



DETAIL 04

1" SCALE

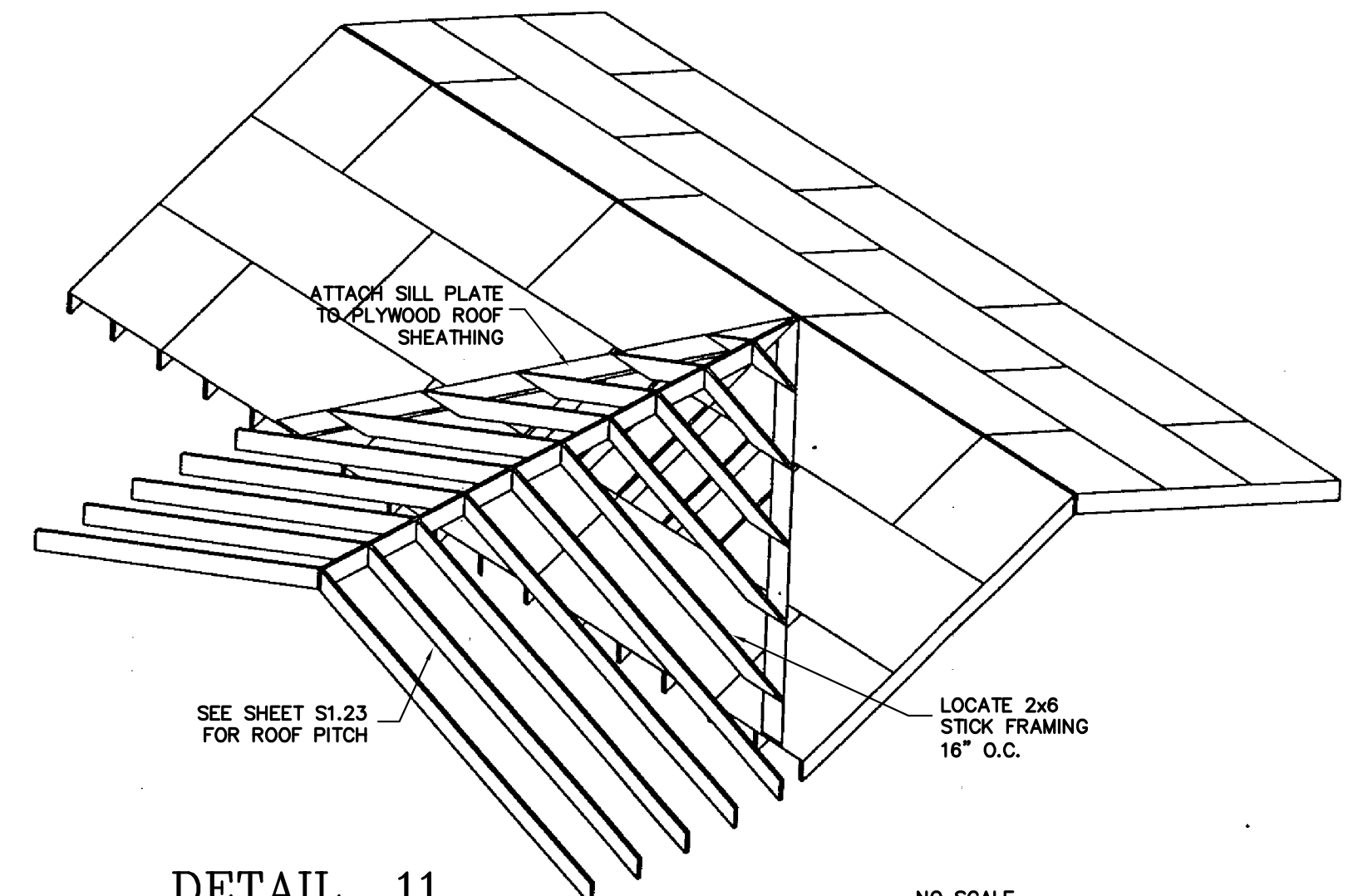
ROOF FRAMING SECTION AT FRONT COVERED ENTRIES



DETAIL 08

1/2" SCALE

ROOF FRAMING SECTION AT TENANT SEPARATION WALLS / STEPPED ROOFS (SHEAR WALLS)

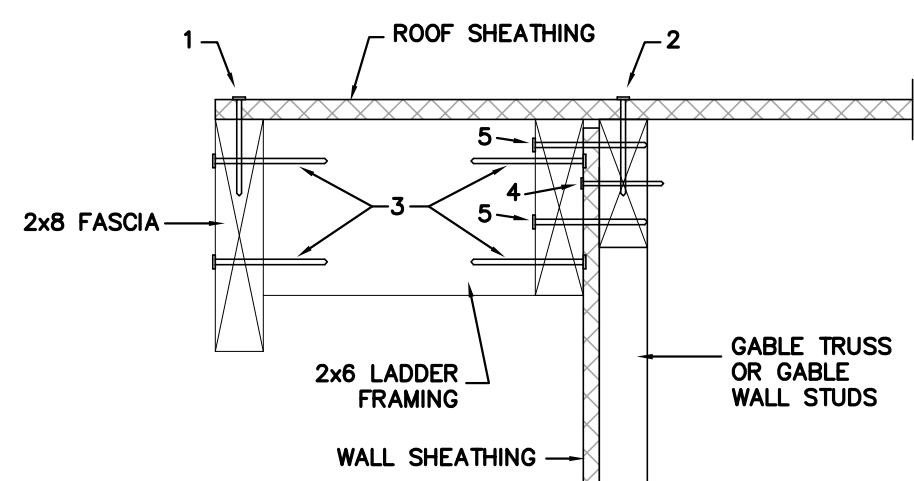


DETAIL 11

NO SCALE

TYPICAL ROOF OVER-BUILD FRAMING

NAILING SCHEDULE				
MARK	NO. & SIZE	SPACING	COMMENTS	
1	10d	6" O.C.	ROOF SHEATHING TO LADDER	
2	10d	4" O.C.	ROOF SHEATHING TO GABLE TRUSS	
3	(2) 16d		EACH LADDER RAIL TO OUTRIGGERS	
4	8d	4" O.C.	WALL SHEATHING TO GABLE TRUSS	
5	(2) 16d	24" O.C.	LADDER RAIL TO GABLE TRUSS	



DETAIL 09

2" SCALE

LADDER FRAMED OVERHANG ATTACHMENT

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 SEAL 15887
 JAMES E. STRATFIELD
 10/25/19

PERMIT SET

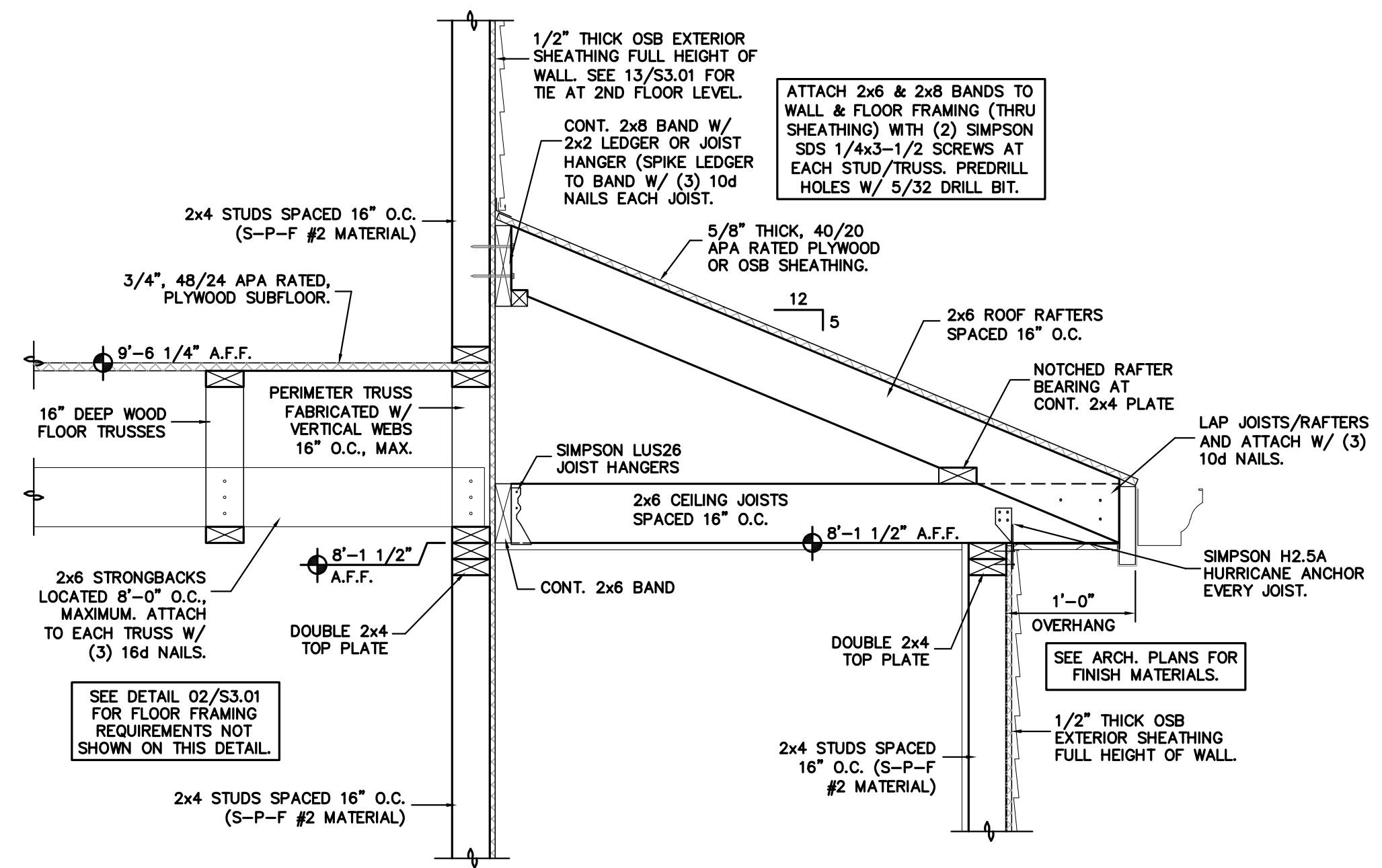
Meredith Square Phase 3
 Apartments
 BUIES CREEK, N.C.
 CLIENT: MEREDITH SQUARE LLC

SCO NO.: 19M01
 DWG NO.: 12201s401.dwg
 DRAWN BY: JES
 DATE: 10/25/19

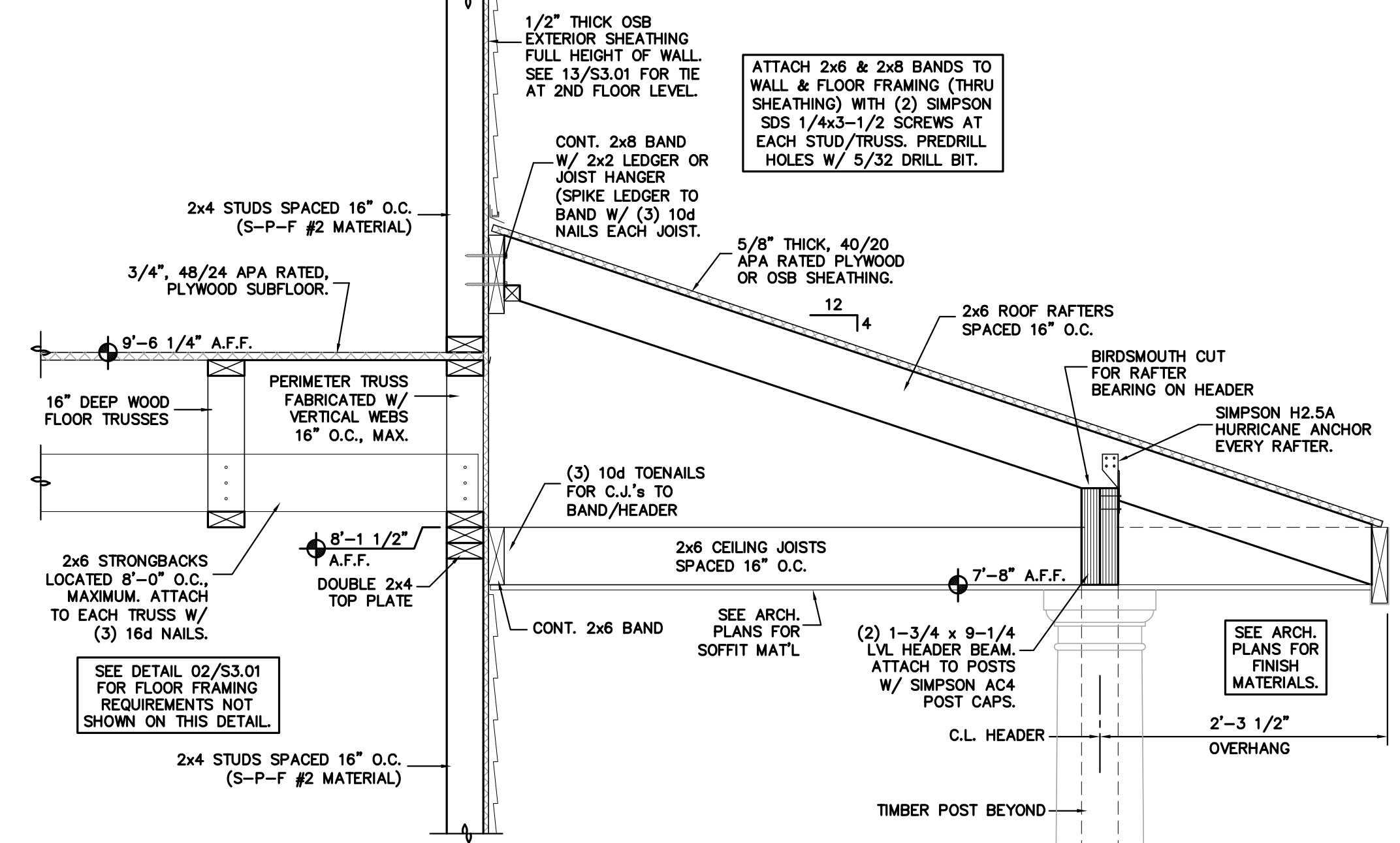
REVISIONS

Roof Framing Details

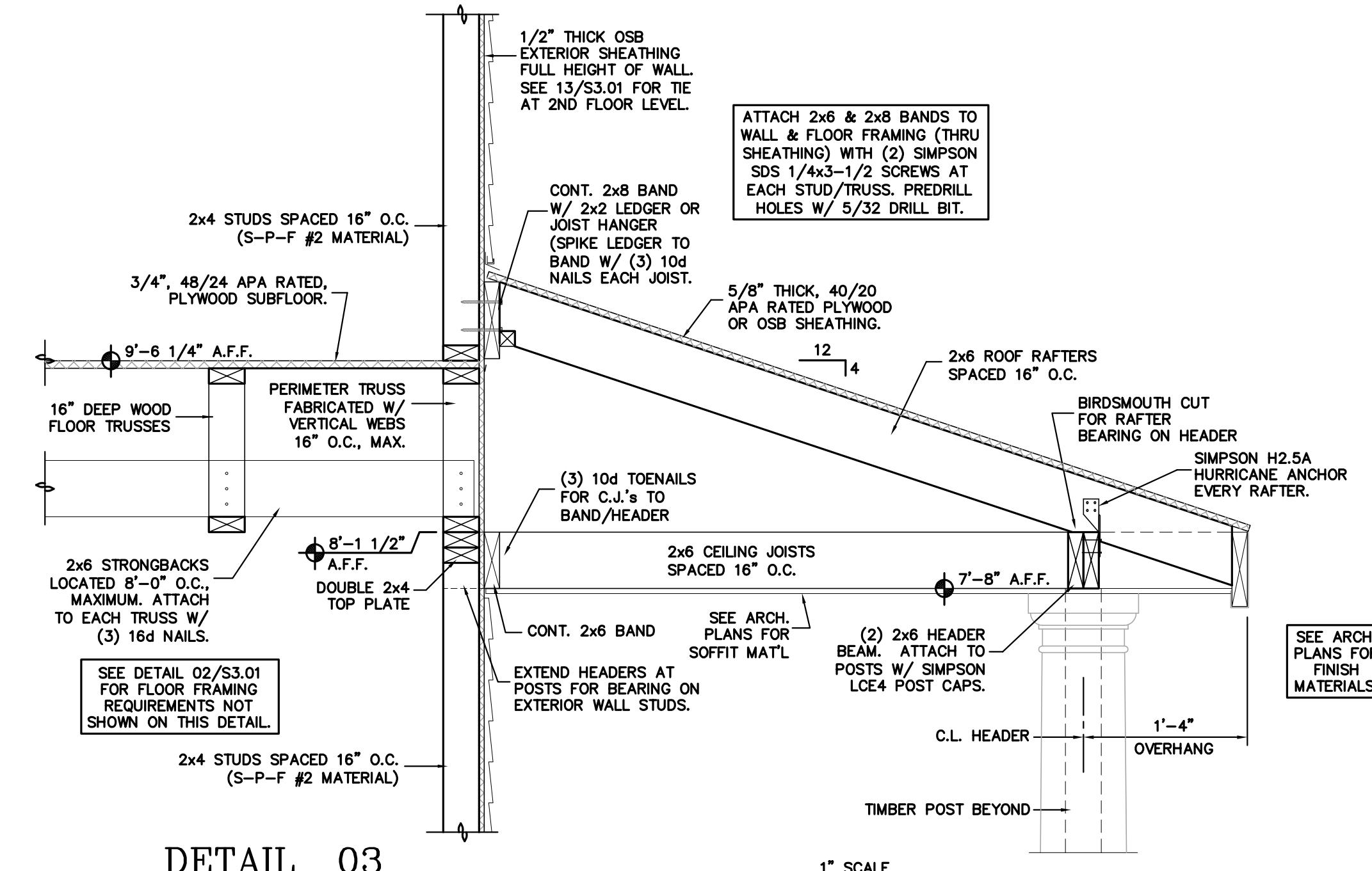
S4.01



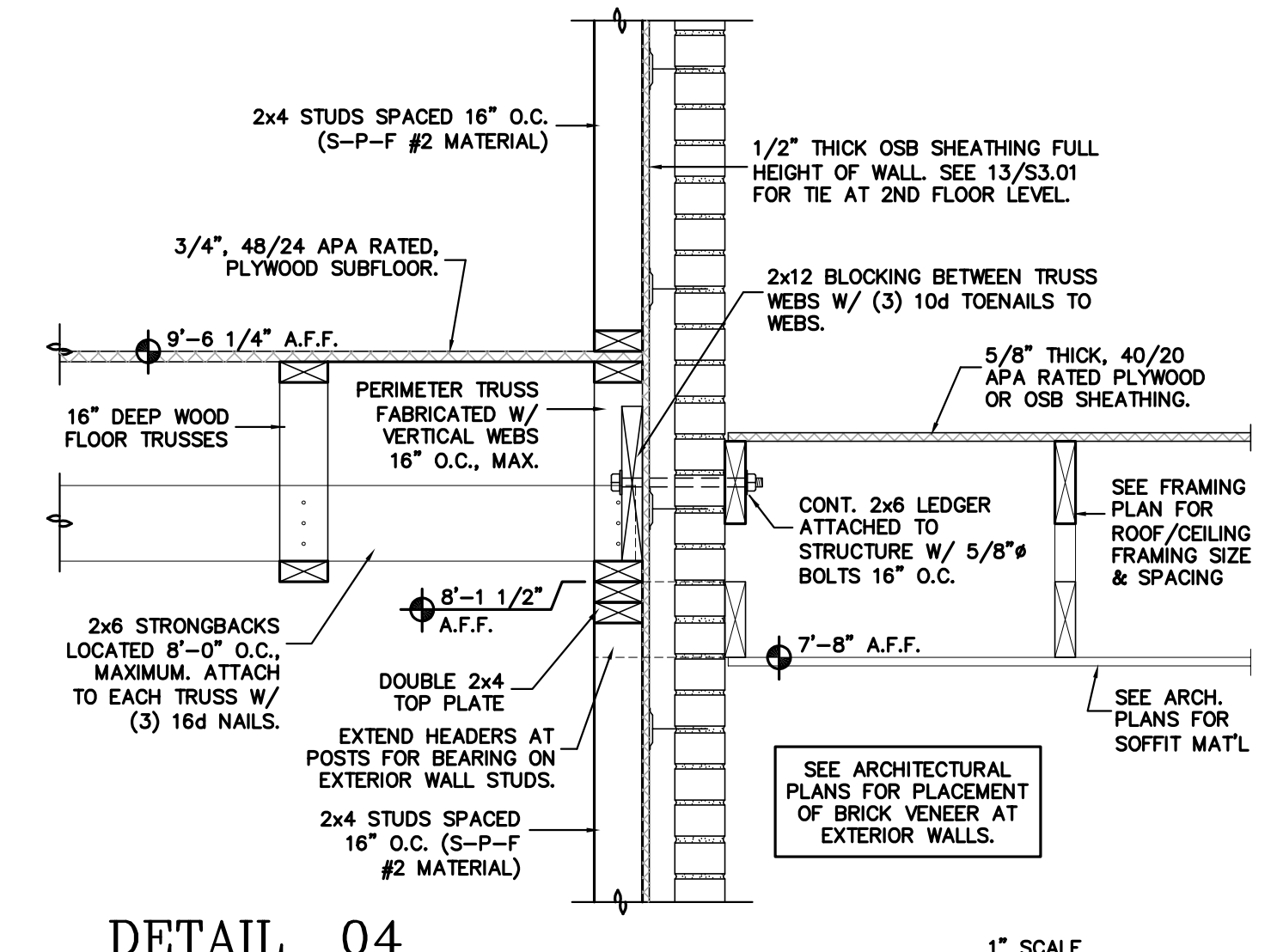
DETAIL 01
FRAMING SECTION AT REAR LOW ROOF
1" SCALE



DETAIL 02
FRAMING SECTION AT FRONT COVERED ENTRY SHED ROOF
1" SCALE



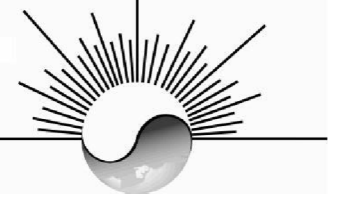
DETAIL 03
FRAMING SECTION AT FRONT COVERED ENTRY SHED ROOF
1" SCALE



DETAIL 04
FRAMING SECTION AT FRONT COVERED ENTRY ROOF
1" SCALE

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PERMIT SET

Meredith Square Phase 3

Apartment

BUJES CREEK, N.C.

CLIENT: MEREDITH SQUARE LLC

SCO NO.: 19M01

DWG NO.: 12221s401.dwg

DRAWN BY: JES

DATE: 10/25/19

REVISIONS

Roof Framing Details

S4.02

GENERAL NOTES

- THE PC SHALL OBTAIN AND PAY FOR ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. REGARDING THE PLUMBING PORTION OF THIS PROJECT.
- POTABLE WATER PIPING ABOVE SLAB FOR PIPE LARGER THAN 1" MAY BE CPVC PIPING COMPLYING WITH ASTM D2846 OR ASTM F441 AND ASTM D1784 EQUAL TO FLOWGUARD GOLD OR CORZAN. WHEN FILLED WITH WATER, CPVC PIPING SHALL HAVE A FLAME DENSITY RATING NOT EXCEEDING 25 AND A SMOKE DENSITY RATING NOT EXCEEDING 50. POTABLE WATER PIPING ABOVE SLAB FOR PIPE SIZES 1" AND SMALLER MAY BE CPVC AS LISTED ABOVE OR PEX-A BY UPONOR (WIRSSBO) OR REHAU, MFG. BY THE ENGEL METHOD ONLY. PEX PIPING THAT UTILIZES MECHANICAL CRIMP RING TYPE FITTINGS WILL BE REJECTED. PEX PIPING SHALL HAVE A FLAME DENSITY RATING NOT EXCEEDING 25 AND A SMOKE DENSITY RATING NOT EXCEEDING 50. UPONOR REQUIRES PIPING TO BE SPACED NO CLOSER THAN 18" TO ACHIEVE THIS. CPVC FITTINGS 2" AND SMALLER SHALL COMPLY WITH ASTM D2846 AND BE SOLVENT CEMENT JOINTS WITH A CEMENT COMPLYING WITH ASTM F493. CPVC FITTINGS LARGER THAN 2" SHALL COMPLY WITH ASTM F439 AND BE SOLVENT CEMENT JOINTS WITH A CEMENT COMPLYING WITH ASTM F493. PEX PIPING FITTINGS SHALL COMPLY WITH ASTM F1960 OR ASTM F2880 (COLD EXPANSION). FITTINGS COMPLYING WITH ASTM F1807 ARE NOT ALLOWED (MECHANICAL CRIMP RINGS). COMPLETE PIPING SYSTEM AND FITTINGS SHALL BE PROVIDED WITH A 25 YEAR MFG. WARRANTY. PC MUST BE A MFG. TRAINED AND CERTIFIED INSTALLER OF THEIR PRODUCT AND FITTINGS. COPPER TUBE TYPE 'U' COMPLYING WITH ASTM B88 IS ALSO ACCEPTED. COPPER FITTINGS 3/4" AND SMALLER MAY BE OF THE COMPRESSION TYPE WHEN THE FITTING IS BOTH EXPOSED AND ACCESSIBLE. ALL COPPER SWEAT FITTINGS SHALL COMPLY WITH EITHER ASME B16.18 OR ASME B16.22 AND THE SOLDER USED MUST BE A MIN. OF 95/5, CONTAINING NO LEAD.
- POTABLE WATER PIPING BELOW SLAB SHALL BE TYPE 'K' COPPER TUBE COMPLYING WITH ASTM B88, OR IF PIPE IS 2" OR SMALLER, PEX AS OUTLINED ABOVE. CONTINUOUS LENGTHS ONLY, NO JOINTS ALLOWED. IF COPPER, SLEEVE PIPE WITH SEALED ELASTOMERIC INSULATION. IF PEX, WRAP WITH 2 LAYERS OF NON-CHLORIDE (ELECTRICAL) TAPE.
- ALL POTABLE WATER PIPING SHOWN IN UNITS IS LOCATED UNDER SLAB OR WITHIN WALLS U.O.N. NO OVERHEAD WATER PIPING IS ALLOWED (ATTIC).
- ALL WATER PIPING SHALL BE RUN IN AREAS NOT SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE RAN ON THE CONDITIONED SIDE OF THE WALL INSULATION. IF ROUTED IN UNCONDITIONED AREAS OR ROOMS WITH THE ONLY EXIT TO THE OUTDOORS, OR OUTSIDE OF THE BUILDING INSULATED ENVELOPE (IE UNCONDITIONED, VENTILATED ATTIC), ALL PIPING AND PIPING ACCESSORIES (MANIFOLDS, VALVES, WHA, ETC.) MUST BE INSULATED WITH A MINIMUM OF R-6.5 IN ACCORDANCE WITH ASTM C177 (INSULATION THICKNESS TO ACHIEVE R-6.5 WILL VARY BY MFG.). COPPER COLD WATER PIPING SHALL HAVE A MIN. 1/2" THICK INSULATION. COPPER HOT WATER PIPING SHALL HAVE A MIN. 1" THICK INSULATION. CPVC OR PEX HOT WATER PIPING SHALL HAVE A MIN. 1/2" THICK INSULATION FOR THE PIPING WITHIN 8' OF THE WATER HEATER. INSULATION SHALL BE OF THE CLOSED CELL ELASTOMERIC TYPE WITH A FLAME DENSITY RATING NOT EXCEEDING 25 AND A SMOKE DENSITY RATING NOT EXCEEDING 50. INSULATION SHALL NOT CONTRIBUTE SIGNIFICANTLY TO FIRE. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS EXCEPT WHEN PENETRATING A FIRE RATED ASSEMBLY THAT DOES NOT HAVE INSULATION AS PART OF THE ASSEMBLY. UNLESS INSTALLED FOR FREEZE PROTECTION, INSULATION CONDUCTIVITY (k) RATING SHALL NOT EXCEED 0.27 BTU PER INCH/1°F/24".
- COPPER AND BRASS PIPING AND FITTINGS SHALL BE PROTECTED AGAINST CONTACT WITH CONCRETE, MASONRY, OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER, COPPER PLATED, BRASS, OR INERT PLASTIC. COPPER PIPING MAY BE CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING IF SATISFACTORY AND COMPLETE ELECTROLYTIC ISOLATION MATERIAL PROTECTS THE COPPER AGAINST CONTACT WITH OTHER METALS. ALL HANGERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE.
- WHERE COPPER OR BRASS PIPING OR FITTINGS ARE PASSING THROUGH OR ARE CONCEALED IN CONCRETE OR MASONRY, PVC SLEEVES SHALL BE REQUIRED. INSULATE THE PIPE OR FITTING WITH A MIN. 1/2" THICK CLOSED CELL TYPE INSULATION BY ARMACELL OR EQUAL. PROPERLY SEAL THE INSULATION IN ACCORDANCE WITH MFG. INSTRUCTIONS. PVC SLEEVE TO HAVE 1/2" MIN. CLEARANCE AROUND THE PIPE AND INSULATION. PROPERLY SEAL THE ANNUAL SPACE WITH COAL TAR, ASPHALTUM COMPOUND, OR OTHER MATERIAL APPROVED BY MFG. & AHJ.
- DIELECTRIC CONNECTIONS SHALL BE USED BETWEEN FERROUS AND NON-FERROUS PIPING.
- PROVIDE DRAIN VALVES IN THE HOT AND COLD WATER SYSTEM AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE.
- EXTERIOR (SITE) WATER AND WASTE PIPING SHALL BE KEPT A MINIMUM OF 5 FEET APART. WHEN PIPES CROSS OR THEY ARE CLOSER THAN 5 FEET, WATER PIPE SHALL BE AT LEAST 12 INCHES ABOVE CROWN OF SEWER PIPE.
- WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC-DWV PIPE SCHEDULE 40 OR HEAVIER COMPLYING WITH ASTM D2665 OR ASTM F891. PVC SLIPJOINTS ARE ONLY ALLOWED TO BE USED FOR DRAIN CONNECTION IN THE FOLLOWING LOCATIONS: TRAP OUTLET, TRAP INLET, AND WITHIN TRAP SEAL, AND ONLY WHERE THESE LOCATIONS ARE ACCESSIBLE. USE PVC SOLVENT CEMENTED JOINTS AT ALL OTHER LOCATIONS. ALL PVC FITTINGS SHALL COMPLY WITH EITHER ASTM D3311 OR ASTM D2665.
- WASTE AND VENT PIPING BELOW SLAB SHALL BE PVC-DWV PIPE SCHEDULE 40 OR HEAVIER COMPLYING WITH ASTM D2665. USE PVC SOLVENT CEMENTED JOINTS. ALL FITTINGS SHALL COMPLY WITH EITHER ASTM D3311 OR ASTM D2665. CELLULAR CORE IS NOT ALLOWED BELOW SLAB.
- ALL SOIL, WASTE, AND VENT LINES SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION (SOIL AND WASTE ARE BELOW GRADE OR WITHIN WALLS UON.) (VENT IS ABOVE CEILING OR WITHIN WALLS UON.) WHERE DIFFERENT TYPES OF PIPE MEET, THE JOINT SHALL BE MADE WITH AN APPROVED ADAPTER FITTING.
- INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE WASTE PIPING IS INSTALLED SO THAT PROPER SLOPES WILL BE MAINTAINED. MINIMUM WASTE SLOPE IS 1/8" PER FOOT FOR PIPE 3" AND LARGER. MIN. WASTE SLOPE IS 1/4" PER FOOT FOR PIPE SMALLER THAN 3". COORDINATE ALL UNDERGROUND PIPING WITH ALL STRUCTURAL FOUNDATIONS.
- CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR (4) HORIZONTAL 45° TURNS, AND AT EVERY 100 FEET. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
- ALL BUILDING PENETRATIONS SHALL BE COORDINATED WITH THE GC. PROVIDE ALL FLASHING MATERIAL REQUIRED UNLESS PROVIDED BY THE GC. ALL VENTS SHALL BE LOCATED A MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
- ALL PLUMBING FIXTURES AND PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ESCUTCHEONS, ETC. SEE FIXTURE SCHEDULES. FURNISH AND INSTALL COMPLETE SYSTEMS OF SOIL, WASTE, VENT, HOT AND COLD WATER PIPING FROM ALL PLUMBING FIXTURES, AND/OR OTHER EQUIPMENT. ALL DRAIN PIPING AND SUPPLY LINES SHALL BE PROTECTED PER ADA REQUIREMENTS.
- PROVIDE QUARTER TURN, FULL PORT, BRASS BALL VALVES WITH BLOW-OUT PROOF STEMS WITH TEFLON OR OTHER NON-RUBBER SEATS AND CHROME PLATED BALL ON ALL BRANCH LINES OF THE HOT AND COLD WATER DISTRIBUTION SYSTEM, ALL FIXTURES WHERE A STOP OR SUPPLY KIT WOULD BE UNACCESSIBLE, AND AS SHOWN ON PLANS, SCHEDULES, RISERS, AND SCHEMATIC DETAILS.
- PROVIDE ACCESS DOORS FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE UNACCESSIBLE CEILINGS.
- VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED.
- PENETRATIONS AND SEALANTS OF FIRE RATED WALL ASSEMBLIES AND FIRE RATED CEILING/FLOOR AND CEILING/ROOF ASSEMBLIES SHALL BE PER A UL LISTED SYSTEM EQUAL TO OR EXCEEDING THE FIRE RATING OF THE PENETRATED ASSEMBLY.
- ALL PIPING SYSTEMS SHALL BE TESTED AS REQUIRED IN THE STATE PLUMBING CODE. POTABLE WATER SYSTEMS SHALL BE DISINFECTED PER STATE AND/OR LOCAL CODES. WHEN PEX WATER PIPING IS USED, THE DISINFECTION PROCEDURE REQUIRING THE LOWEST CONCENTRATION OF CHLORINE (PPM) FOR THE SHORTEST AMOUNT OF TIME ACCEPTABLE TO THE AHJ SHALL BE USED.
- FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES, REQUIREMENTS OF AHJ, AND APPLICABLE STANDARDS INCLUDING ANSI, ASSE, ASME, NSF, CSA, AND ARI.
- CEILING AREA HAS LIMITED SPACE. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC. TO BE PROPERLY INSTALLED WHILE AVOIDING CONFLICT WITH THE PLUMBING SYSTEMS.
- DRAWINGS AND RISERS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW REQUIRED FITTINGS AND OFFSETS REQUIRED FOR ACTUAL INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.

PLUMBING FIXTURES SCHEDULE

TAG	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	FAUCET/VALVE			PIPE SIZES			DRAIN		MOUNTING	SUPPLIES & STOPS	REMARKS	
						MFG/MODEL	SPOUT	HANDLES	CNTRS	CW	HW	WASTE	TYPE				SIZE
P-1	WATER CLOSET	ELONGATED 1.6 GPF	MANSFIELD	ALTO 135-160	VITREOUS CHINA	GRAVITY FLUSH TANK	-	-	-	1/2"	-	3"	TRAPWAY	2"	FLOOR	NOTE 1	NOTES 2, 4, STD. HEIGHT
P-IHC	WATER CLOSET	ELONGATED ADA 1.6 GPF	MANSFIELD	ALTO 137-160	VITREOUS CHINA	GRAVITY FLUSH TANK	-	-	-	1/2"	-	3"	TRAPWAY	2"	FLOOR	NOTE 1	NOTES 2, 4, ADA HEIGHT
P-2	LAVATORY	SINGLE OVAL BOWL WITH OVERFLOW	ZURN	Z5114	VITREOUS CHINA	PEERLESS P136LF-M	CENTERSET 1.2 GPM	ADA SINGLE LEVER	4"	1/2"	1/2"	2"	METAL POP-UP	1-1/4"	COUNTER TOP	NOTE 1	NOTES 4, ADA HEIGHT
P-3	KITCHEN SINK	8" DEEP DOUBLE BOWL 4 HOLE	DAYTON	ELITE DSE23322	STAINLESS STEEL	PEERLESS P115LF	6" HIGH ARC W/ SIDE SPRAY	ADA SINGLE LEVER	8"	1/2"	1/2"	1-1/2"	DH25 STRAINER	3-1/2"	COUNTER TOP	NOTE 1	NOTE 4
P-3HC	KITCHEN SINK	5 3/8" DEEP DOUBLE BOWL 4 HOLE	DAYTON	GE23322	STAINLESS STEEL	PEERLESS P115LF	6" HIGH ARC W/ SIDE SPRAY	ADA SINGLE LEVER	8"	1/2"	1/2"	1-1/2"	LKAD35 STRAINER	3-1/2"	COUNTER TOP	NOTE 1	NOTE 4, ADA HEIGHT
P-4	TUB/SHOWER	TUB/SHOWER	BATHCRAFT	7504	GELCOAT	MONITOR 13 DELTA	1.5 GPM MAX T13420	SINGLE LEVER	-	1/2"	1/2"	2"	BRASS W/ SS COVER	2"	FLOOR	W/ MIXING VALVE	NOTE 4
P-4HC	TUB/SHOWER	60"x32" GELCOAT TUB/SHOWER	AQUATIC BATH	2603SMTE	GELCOAT	MONITOR 13 DELTA	1.5 GPM MAX	ADA SINGLE LEVER	-	1/2"	1/2"	2"	BRASS W/ SS COVER	2"	FLOOR	W/ MIXING VALVE	NOTES 3, 4, PROVIDE W/ REMOVABLE SEAT

NOTES:

- COPPER STUBOUT TO CHROME PLATED QUARTER TURN BRASS BALL STOP WITH TEFLON OR CERAMIC SEATS. RISER MAY BE COPPER OR BRAIDED STAINLESS STEEL.
- FLUSH HANDLE TO BE ON WIDE SIDE OF STALL IN ADA AREAS. IN DWELLING UNITS, FLUSH HANDLE TO BE ON LAVATORY SIDE. CLOSED FRONT SEAT, MANSFIELD SB200 FOR DWELLING UNITS, OPEN FRONT SEAT FOR ADA UNITS.
- ALL ADA TUBS AND SHOWERS MUST HAVE THE CONTROL OFFSET TOWARDS THE FRONT OF THE TUB/SHOWER. SEE ARCH. PLANS FOR GRAB BARS AND CLEAR SPACE.
- CATALOG NUMBERS AND MFG'S ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MFG'S FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE.

WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	STYLE	STORAGE (GALLONS)	RECOVERY (GPH) @ 90°F RISE	ENERGY FACTOR	FUEL	ELECTRICAL		GAS		CONNECTIONS		DRAIN		NOTES
								VOLT/Ø	ELEMENTS	INPUT (MBH)	FLUE	CW	HW	SIZE	TYPE	
WH-1	AMERICAN	AE103-50H-045DV	TALL	50	21	0.95	ELECTRIC	240/1	(2) 4.5 KW INTERLOCKED	-	-	3/4"	3/4"	1"	1/16" PLASTIC PAN	1, 2
WH-2	AMERICAN	E6N-40LB	LOWBOY	38	21	0.92	ELECTRIC	240/1	(2) 4.5 KW INTERLOCKED	-	-	3/4"	3/4"	1"	1/16" PLASTIC PAN	1, 2

NOTES:

- CATALOG NUMBERS AND MFG'S ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MFG'S FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE.
- PROVIDE AMTRON MODEL ST-5 THERM-X-TROL EXPANSION TANK.

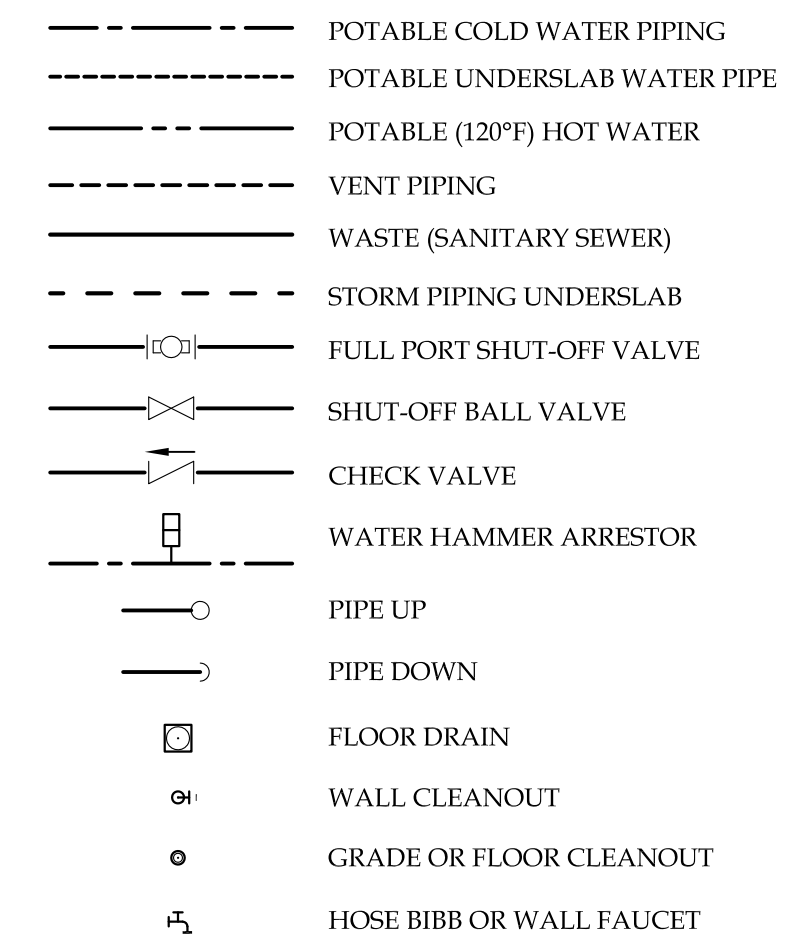
PLUMBING ACCESSORIES SCHEDULE

TAG	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	INLET SIZE/TYPE	MOUNTING	REMARKS
C-G	GRADE CLEAN-OUT	ADJUSTABLE PVC BODY AND PLUG	ZURN	CO-2410	PVC BODY AND TOP	MATCH LINE SIZE	GRADE	NOTE 5
C-W	WALL CLEAN-OUT	PVC BODY AND PLUG	ZURN	CO-2411	PVC BODY, SS COVER (CO-2530)	MATCH LINE SIZE	WALL	NOTE 5
FD	FLOOR DRAIN	ADJ. CAST IRON, MEMBRANE CLAMP WITH HAMMER ARRESTER	ZURN	ZB415-B-TSP	CAST IRON BODY, BRONZE TOP	MATCH LINE SIZE	FLOOR	TRAP SEAL DEVICE, NOTE 5
IMB	ICE MAKER BOX		WATER-TITE	W9700 HA	PLASTIC	1/2"	RECESSED WALL BOX	NOTES 1, 3, 5
WF	WALL FAUCET	FREEZELESS BACKFLOW PREVENTER	WOODFORD	27	CAST BRASS	3/4" CW	WALL	DRAINS WITH OR W/O HOSE, NOTES 1, 2, 5
WMB	WASHING MACHINE BOX	WITH HAMMER ARRESTER	WATER-TITE	W2700 HA	PLASTIC	1/2"	RECESSED WALL BOX	NOTES 1, 3, 5
WMB-2	WASHING MACHINE BOX	FIRE RATED WITH HAMMER ARRESTER	GUY GRAY	FR12SHA	FLAME RESISTANT PLASTIC RESIN	1/2"	RECESSED WALL BOX	NOTES 1, 4, 5

NOTES:

- WHERE THE LISTED MFG. OFFERS A MODEL WITH A PEX-a CONNECTION SPECIFIC TO THE PEX MFG. BEING INSTALLED, THAT MODEL MAY BE SUBSTITUTED.
- PROVIDE WITH INTEGRAL VACUUM BREAKER AND A LOOSE KEY HANDLE.
- QUARTER TURN BRASS BALL STOP WITH TEFLON SEATS AND INTEGRAL HAMMER ARRESTER.
- CHROME PLATED QUARTER TURN BALL STOP. WMB IS A WARNOCK HERSEY LISTED FIRESTOP DEVICE. IIF5/PV 120-01, 1 & 2 HR RATED.
- CATALOG NUMBERS AND MFG'S ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MFG'S FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE.

PLUMBING LEGEND



ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MBH	1,000 BTU/HR
AAV	AIR ADMITTANCE VALVE	MFG	MANUFACTURER
A	AMPS	MOCp	MAXIMUM OVERCURRENT PROTECTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MC	MECHANICAL CONTRACTOR
ARI	AMERICAN REFRIGERATION INSTITUTE	MIN	MINIMUM
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MCA	MINIMUM CIRCUIT AMPACITY
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERING	NSF	NATIONAL SANITATION FOUNDATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	PPM	PARTS PER MILLION
ADA	AMERICANS WITH DISABILITIES ACT	PH	PHASE
AHJ	AUTHORITY HAVING JURISDICTION	PC	PLUMBING CONTRACTOR
AUX	AUXILIARY	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	PKV	PRESSURE REDUCING VALVE
CLG	CEILING	REQD	REQUIRED
CO-F	CLEANOUT (FLOOR)	RPM	REVOLUTIONS PER MINUTE
CO-G	CLEANOUT (GRADE)	SS	SANITARY SEWER
CO-W	CLEANOUT (WALL)	STD	STANDARD
CW	COLD WATER (POTABLE)	SD	STORM DRAIN
CU	COPPER	TEL	TOTAL EQUIVALENT LENGTH
DN	DOWN	UV	ULTRA-VIOLET
EFF	EFFICIENCY	UL	UNDERWRITERS LABORATORIES
EWC	ELECTRIC WATER COOLER	UNON	UNLESS OTHERWISE NOTED
EC	ELECTRICAL CONTRACTOR	V	VENT
FD	FLOOR DRAIN	V	VOLTS (ELECTRICAL SYSTEMS ONLY)
FS	FLOOR SINK	VTR	VENT THROUGH ROOF
GC	GENERAL CONTRACTOR	WF	WALL FAUCET
GW	GREASE WASTE	W	WASTE
HP	HORSEPOWER	W	WATTS (ELECTRICAL SYSTEMS ONLY)
HB	HOSE BIBB	WC	WATER COLUMN
HW	HOT WATER (POTABLE)	WHA	WATER HAMMER ARRESTER
HD	HUB DRAIN	WH	WATER HEATER
IMB	ICE MAKER BOX		

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TURNKEY ENGINEERING, PC
MECHANICAL PLUMBING ELECTRICAL
P. 919.233.0003
FRANKFORTH, NC 28734
NO. 2511 FRENCH CREEK

PROJECT NO.: 19M01-19005
DWG NO.: SEE SHEET #
DRAWN BY: MRD
DATE: 10.25.2019
ISSUE: PERMIT SET

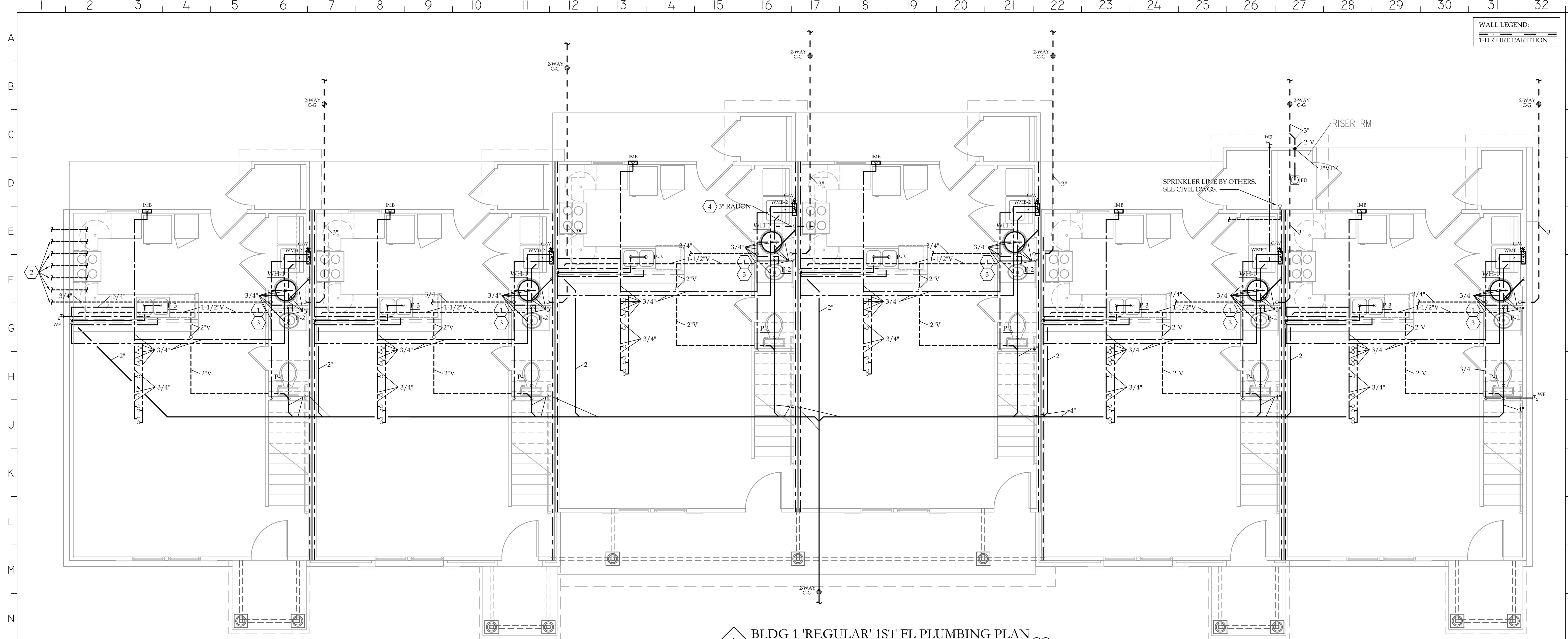
REVISIONS

Plumbing Legend & Schedules

P0.01

CLIENT: MEREDITH SQUARE LLC

Meredith Square Phase 3
Apartments
BUIES CREEK, NC



1 BLDG 1 'REGULAR' 1ST FL PLUMBING PLAN
1/4"=1'-0"

GENERAL NOTES - THIS SHEET

- MIN. WASTE SIZE UNDER SLAB IS 2". 2" LINES MUST BE SLOPED AT A MIN. OF 1/4" PER FOOT. 3 AND 4" LINES MAY BE SLOPED AT A MIN. OF 1/8" PER FOOT. 3" STORM LINES (WH/AHU) UNDER SLAB MAY BE SLOPED AT A MIN. OF 1/8" PER FOOT.
- WHERE VENT SIZES ARE NOT SHOWN, VENT SHALL BE A MIN. OF 1-1/2" OR A MIN. OF HALF THE SIZE OF THE DRAIN PIPE IT SERVES, WHICHEVER IS LARGER.
- LAVATORIES ARE TO HAVE A 2" VERTICAL WASTE AND VENT PIPE UON.
- PROVIDE WASTE & HOT WATER CONNECTIONS FOR THE UNDERCOUNTER DISHWASHER (PROVIDED BY OTHERS). ALL CONNECTIONS SHALL COMPLY WITH MFG. INSTRUCTIONS.
- PROVIDE 3/4" FULL PORT SHUT-OFF VALVE IN WH CLOSET AFTER CW PIPE ENTERS UP THRU SLAB. NOT SHOWN FOR CLARITY.
- WHERE WATER, WASTE, AND VENT SIZES ARE NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, CONTINUE THAT SIZE BACK TO LAST SIZED MAIN/BRANCH.
- PROVIDE 3" HUB DRAIN IN WH CLOSET RAN TO STORM. FOR CONTINUATION, SEE CIVIL DWGS. AHU CONDENSATE (BY MC) TO DRAIN TO THIS ALONG WITH WH DRAIN PAN AND WH T/P RELIEF VALVE PIPE.
- ALL DOMESTIC WATER LINES SHOWN MUST BE RAN IN WALL CAVITIES OR IN THE CEILING/FLOOR ASSEMBLY BETWEEN THE 1ST/2ND FLOOR OR BELOW THE SLAB (CURVED WATER LINES ARE BELOW SLAB). NO DOMESTIC WATER LINES ARE ALLOWED IN THE ATTIC.
- COORDINATE TUB/SHOWER CONTROLS AND SHOWER HEAD LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- WASTE EXIT, STORM EXIT, AND WATER ENTRY ARE SHOWN SCHEMATICALLY FOR EACH BUILDING TYPE. VERIFY THE WASTE EXIT, THE CLOSEST STORM INLETS (DIRECTION OF STORM EXIT), AND WATER ENTRY POINTS OF EACH BUILDING ON SITE AND ADJUST AS REQUIRED PER THE CIVIL/SITE PLANS.

TAGGED NOTES - THIS SHEET

- CONTINUE CW (PIPE MATERIAL AND SIZE PER CIVIL DRAWINGS) FROM 5' OUTSIDE OF BUILDING UNTIL WITHIN BUILDING (TURN UP AT WH). PROVIDE FULL PORT SHUT-OFF VALVE IN CW RISE ABOVE SLAB.
- PROVIDE FEBCO MODEL LF850 3/4" DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY OR EQUAL. INSTALL IN METER BOX BELOW GRADE WITH FULL PORT GATE SHUT OFF VALVE AHEAD OF BFP. FOR LOCATIONS OF METER BOXES, SEE CIVIL/SITE DWGS. LOCATION OF METER BOX GROUP VARIES BY BUILDING SITE LOCATION.
- PROVIDE WATTS MODEL LF223 PRV OR EQUAL AFTER SHUT OFF VALVE IN RISE ONLY IF WATER PRESSURE DOWNSTREAM OF BFP IS 60 PSI OR MORE. DO NOT PROVIDE IF PRESSURE IS LESS THAN 60 PSI.
- INSTALL 4"x3"x4" PVC TEE FITTING BELOW SLAB FOR RADON ABATEMENT. 3" RADON VENT STRAIGHT VERTICALLY UP TO 3" VTR (MIN. 12" ABOVE ROOF SURFACE), NO ELBOWS OR OFFSETS ALLOWED. VENT MUST BE LABELED "RADON REDUCTION SYSTEM" ON EACH FLOOR. INSTALL PER ARCHITECTURAL DETAILS, ONE PER BUILDING, LOCATE PER ARCHITECTURAL PLANS.

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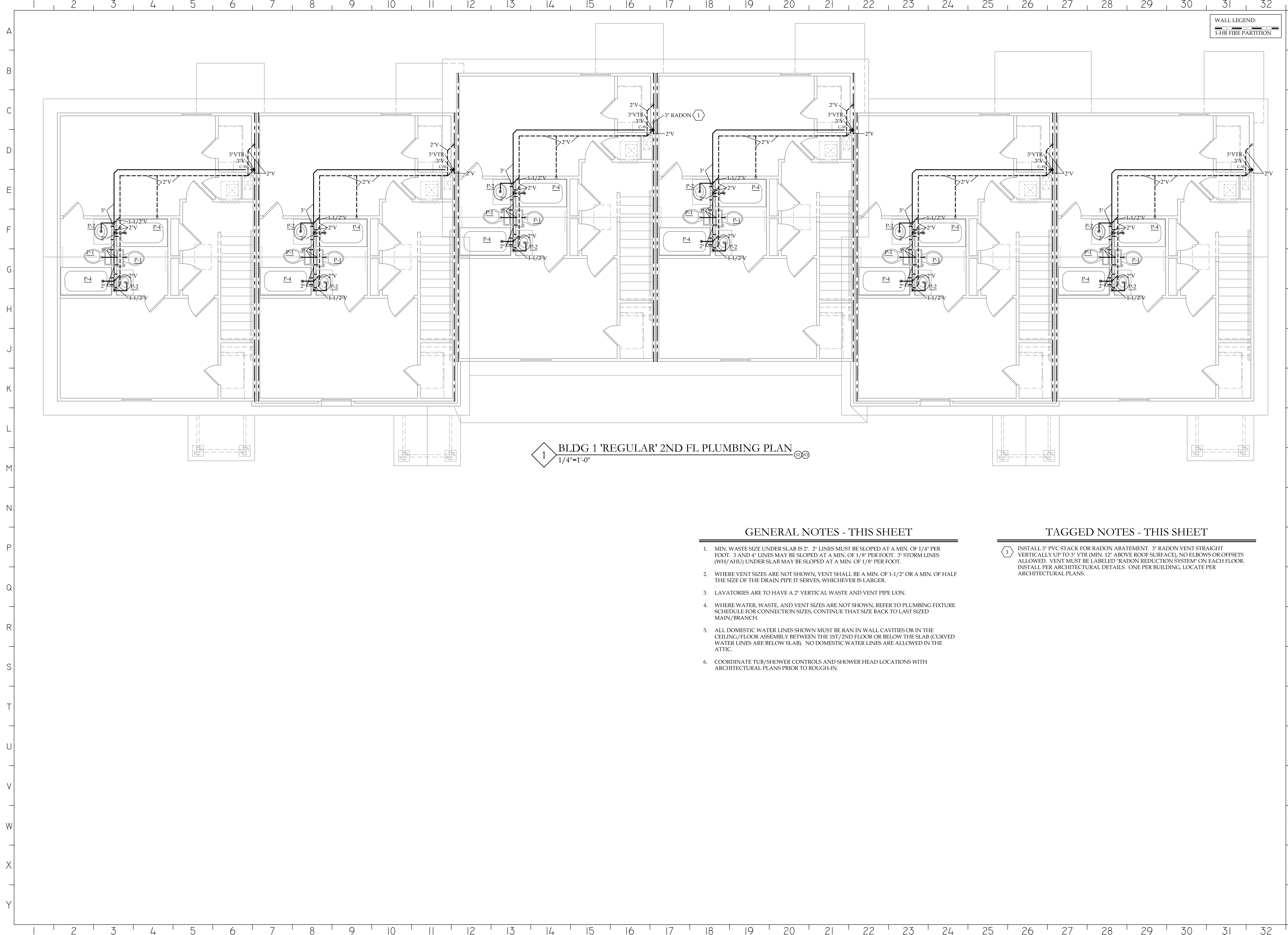
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NO. 501 FRENCH CREEK

Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-19005
DWG NO.: SEE SHEET #
DRAWN BY: MRD
DATE: 10.25.2019
ISSUE: PERMIT SET

REVISIONS

Plumbing
Bldg 1 Reg
Plan



WALL LEGEND:
 1-HR FIRE PARTITION

1 BLDG 1 'REGULAR' 2ND FL PLUMBING PLAN
 1/4"=1'-0"

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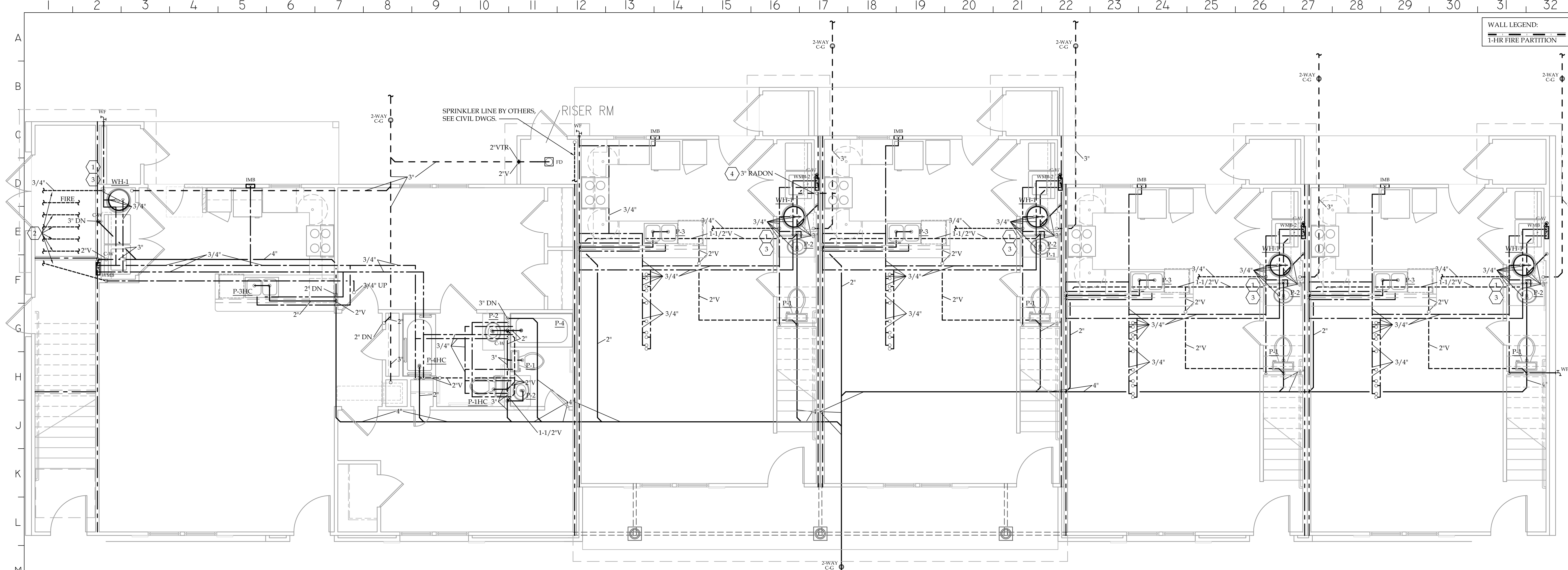
PROJECT NO.: 19M01-18005
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Meredith Square Phase 3
Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

REVISIONS

Plumbing
 Bldg 1 Reg
 Plan

P1.02



WALL LEGEND:
1-HR FIRE PARTITION

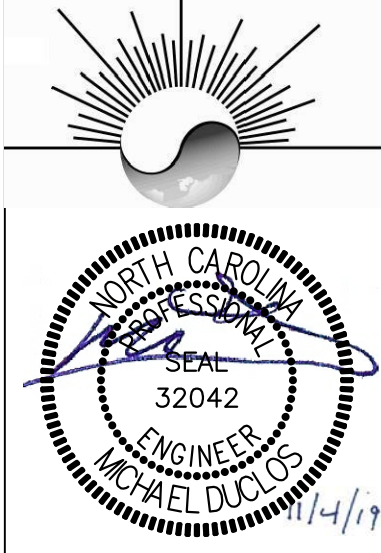
1 BLDG 2 'ADA' 1ST FL PLUMBING PLAN
1/4"=1'-0"

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Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

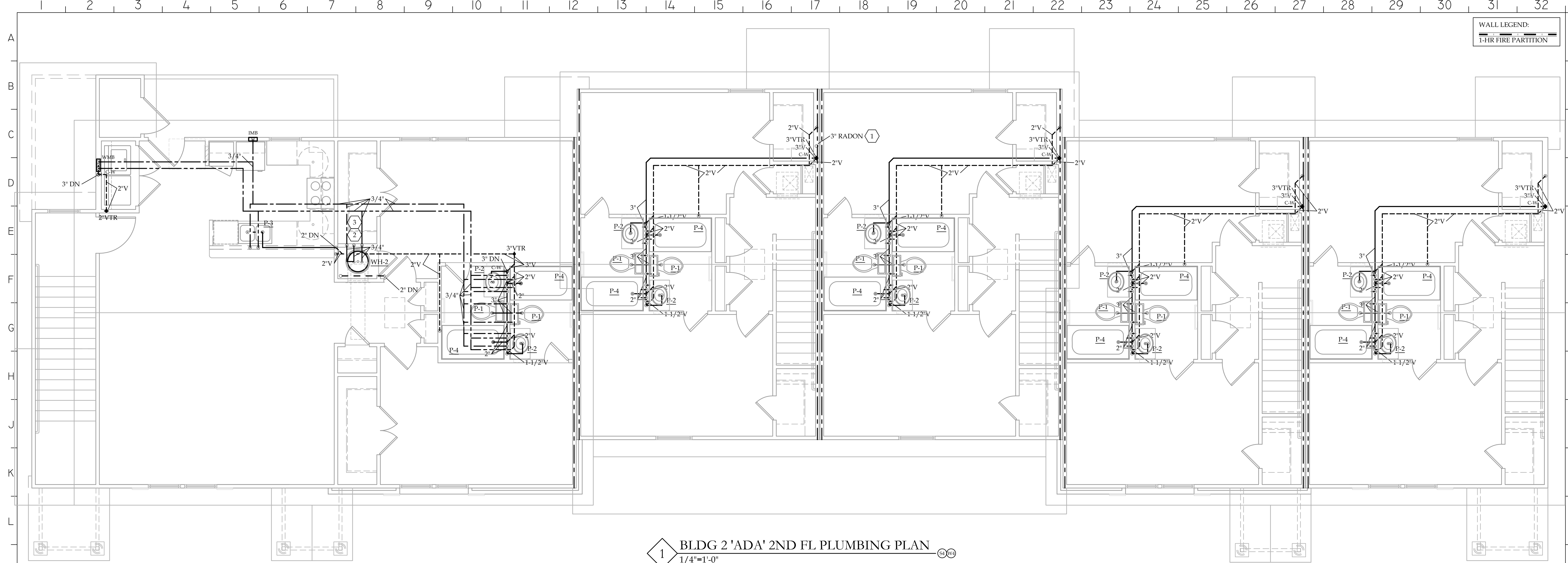
PROJECT NO.: 19M01-19005
DWG NO.: SEE SHEET #
DRAWN BY: MRD
DATE: 10.25.2019
ISSUE: PERMIT SET

REVISIONS

Plumbing
Bldg 2 ADA
Plan

P1.03

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WALL LEGEND:
1-HR FIRE PARTITION

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32042
MICHAEL DUCLOS
11/17

PROJECT NO.: 19M01-18005
DWG NO.: SEE SHEET #
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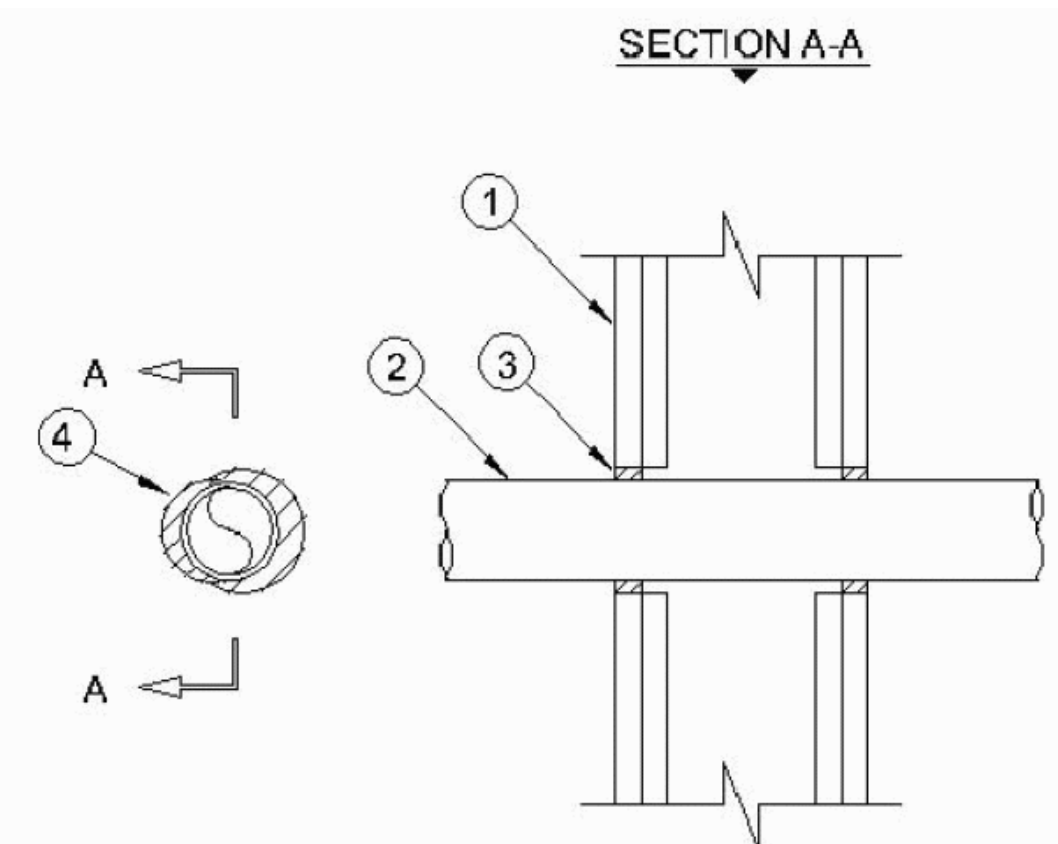
REVISIONS

Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

Plumbing
Bldg 2 ADA
Plan

P1.04

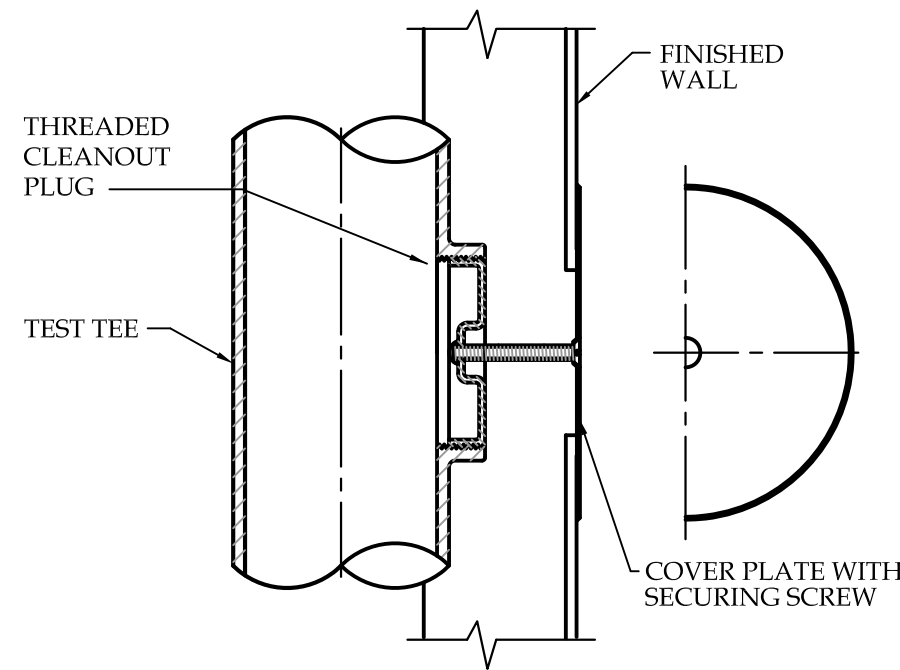
System No. W-L-2474
 May 22, 2006
 F Ratings - 1 and 2 Hr (See Item 1)
 T Rating - 0 Hr
 L Rating At Ambient - Less Than 1 CFM/Sq Ft
 L Rating at 400 F - 4 CFM/Sq Ft



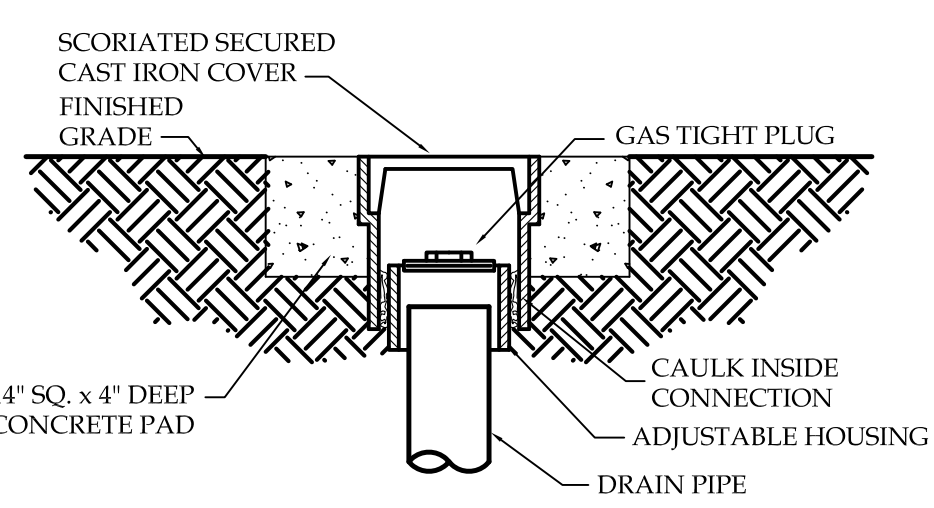
1. Wall Assembly - The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
 - A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 - B. Gypsum Board* - Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants - One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and the periphery of the opening shall be min 0 in. (point contact) to a max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
 - A. Polyvinyl Chloride (PVC) Pipe - Nom 2 in. (51 mm) diam (or smaller) cellular or solid core Schedule 40 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - C. Crosslinked Polyethylene (PEX) Tubing - Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
 - D. Rigid Nonmetallic Conduit (RNC)+ - Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location, a min 1/2 in. (13 mm) diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant

*Bearing the UL Classification Mark
 + Bearing the UL Listing Mark

1 UL PENETRATION DETAIL
 N.T.S.

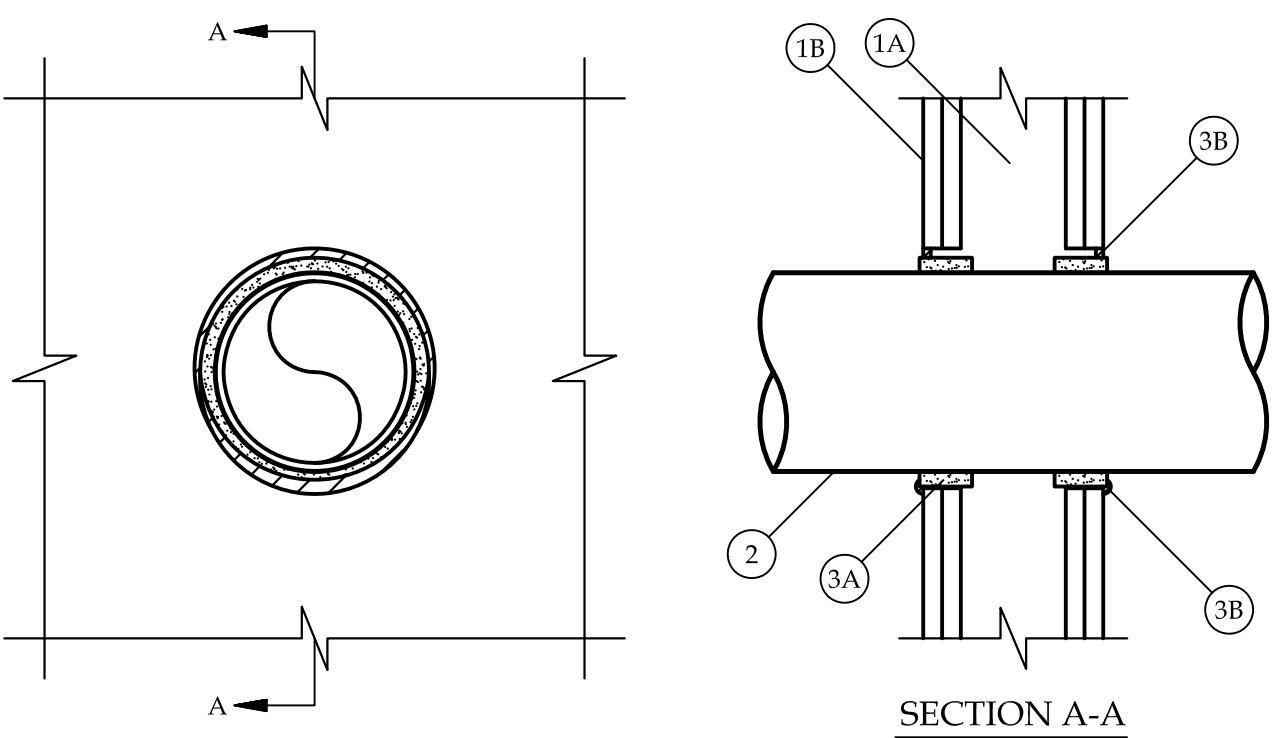


4 WALL CLEANOUT DETAIL
 N.T.S.



5 EXTERIOR GRADE CLEANOUT
 N.T.S.

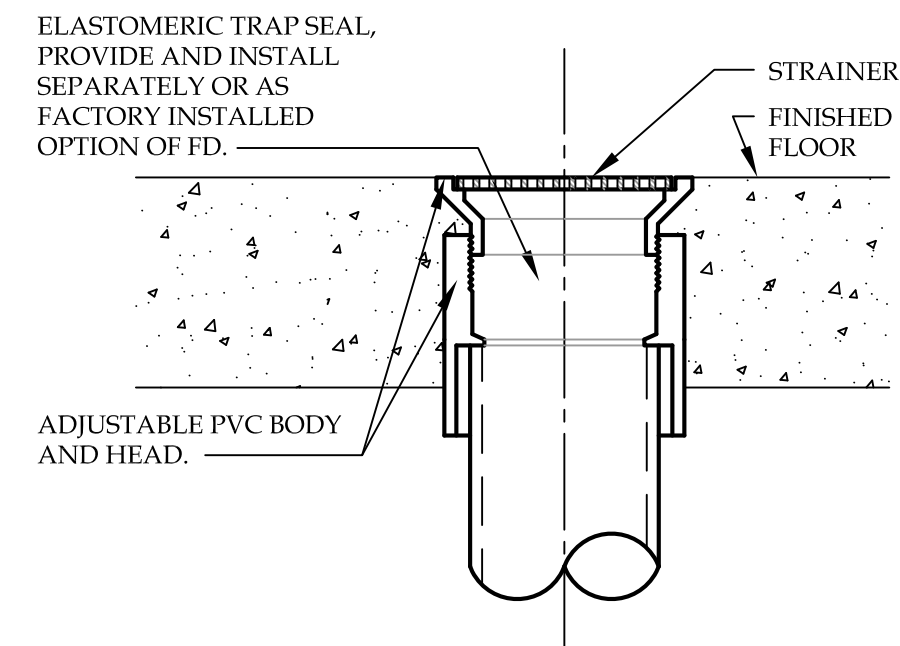
System No. W-L-2406
 F Ratings - 1 and 2 Hr (See Item 1)
 T Ratings - 0, 1/2 and 3/4 Hr (See Item 2)
 L Rating At Ambient - 1.2 CFM/sq ft (See Item 3B)
 L Rating At 400 F - Less Than 1 CFM/sq ft (See Item 3B)



Nom Pipe Diam, in. (mm)	Wrap Strip	Wrap Strip Size, thick. X width, in. (mm)	Max Diam of Opening, in. (mm)	Annular Space, in. (mm)	
				Min	Max
1-1/2 (38)	CP 648S - 1.5" US	3/16 x 1 (5 x 25)	2-3/8 (60)	3/16 (5)	5/16 (8)
2 (51)	CP 648S - 2" US	3/16 x 1 (5 x 25)	3 (76)	3/16 (5)	5/16 (8)
3 (76)	CP 648S - 3" US	3/16 x 1-3/4 (5 x 44)	4 (102)	3/16 (5)	5/16 (8)
4 (102)	CP 648S - 4" US	3/8 x 1-3/4 (10 x 44)	5-3/8 (137)	3/8 (10)	1/2 (13)
6 (152)	CP 648S - 6" US	1/2 x 1-3/4 (13 x 44)	8 (203)	9/16 (14)	13/16 (21)

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
 - B. Gypsum Board* - One or two layers of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. See Table under Item 3B for max diam of opening.
2. Through-Penetrants - One nonmetallic pipe installed within the firestop system. See Table under Item 3B for annular space required in the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - A. Polyvinyl Chloride (PVC) Pipe - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping system.
 - C. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
3. Firestop System - The firestop system shall consist of the following:
 - A. Fill, Void or Cavity Material* - Wrap Strip - See Table under Item 3B for min size of intumescent wrap strip. The wrap strip is continuously wrapped around the outer circumference of the pipe once and slid into the annular space such that approx 1/8 in. (3 mm) of the wrap strip protrudes from the wall surface. Wrap strip is held in place with integral fastening tape. Wrap strip installed on each surface of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 648S - 1.5" US, CP 648S - 2" US, CP 648S - 3" US, CP 648S - 4" US and CP 648S - 6" US
 - B. Fill, Void or Cavity Material* - Caulk - Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 2 hr fire-rated walls, 1/4 in. (6 mm) bead fill material also applied at wrap strip/gypsum wall interface. In 1 hr fire-rated walls, fill material is optional for nom 1-1/2, 2, 3 and 4 in. (38, 51, 76 and 102 mm) diam penetrants. In 2 hr fire-rated walls, fill material is optional for nom 1-1/2, 2 and 3 in. (38, 51 and 76 mm) diam penetrants. Fill material is required to be used to attain L Ratings.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant

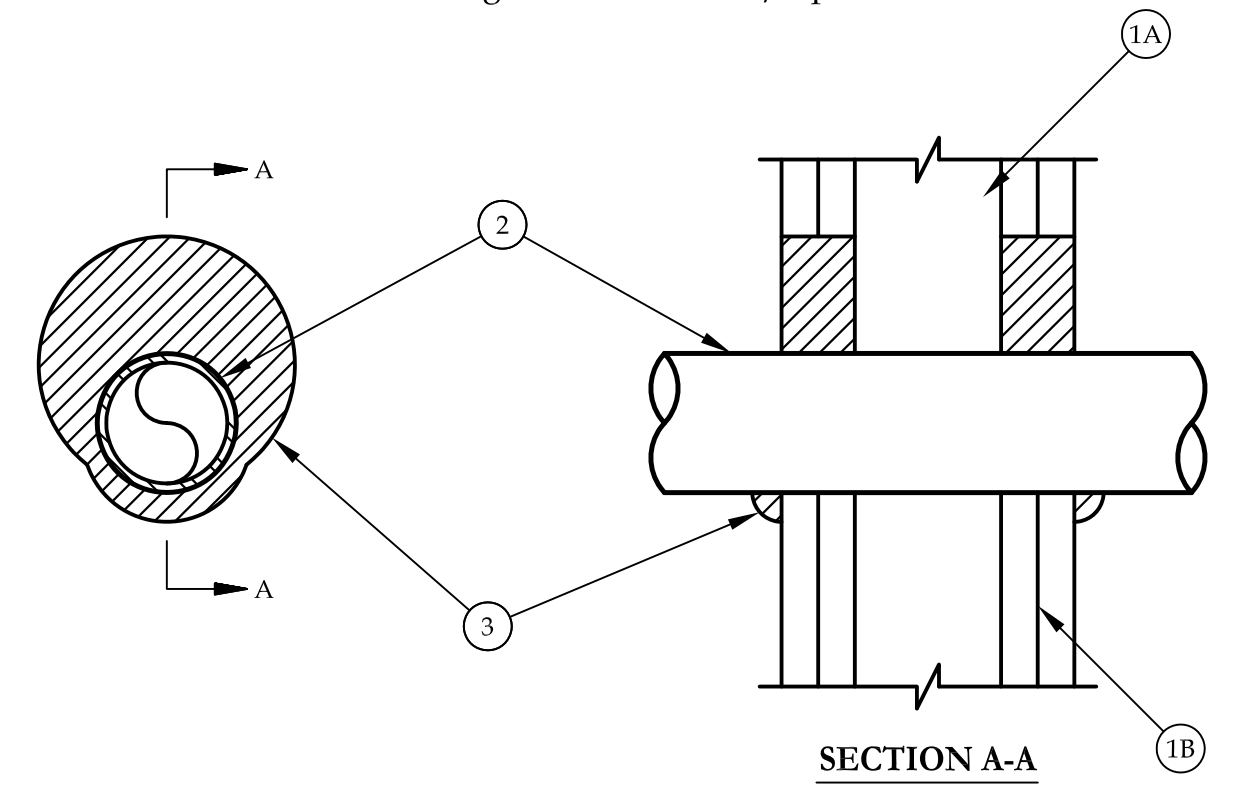
2 UL PENETRATION DETAIL
 N.T.S.



- NOTE:
1. ALL FLOOR DRAINS TO BE PROVIDED WITH 4" DEEP TRAP SEALS.
 2. ALL FLOOR DRAINS TO HAVE INTEGRAL MEMBRANE CLAMPS.

6 FLOOR DRAIN DETAIL
 N.T.S.

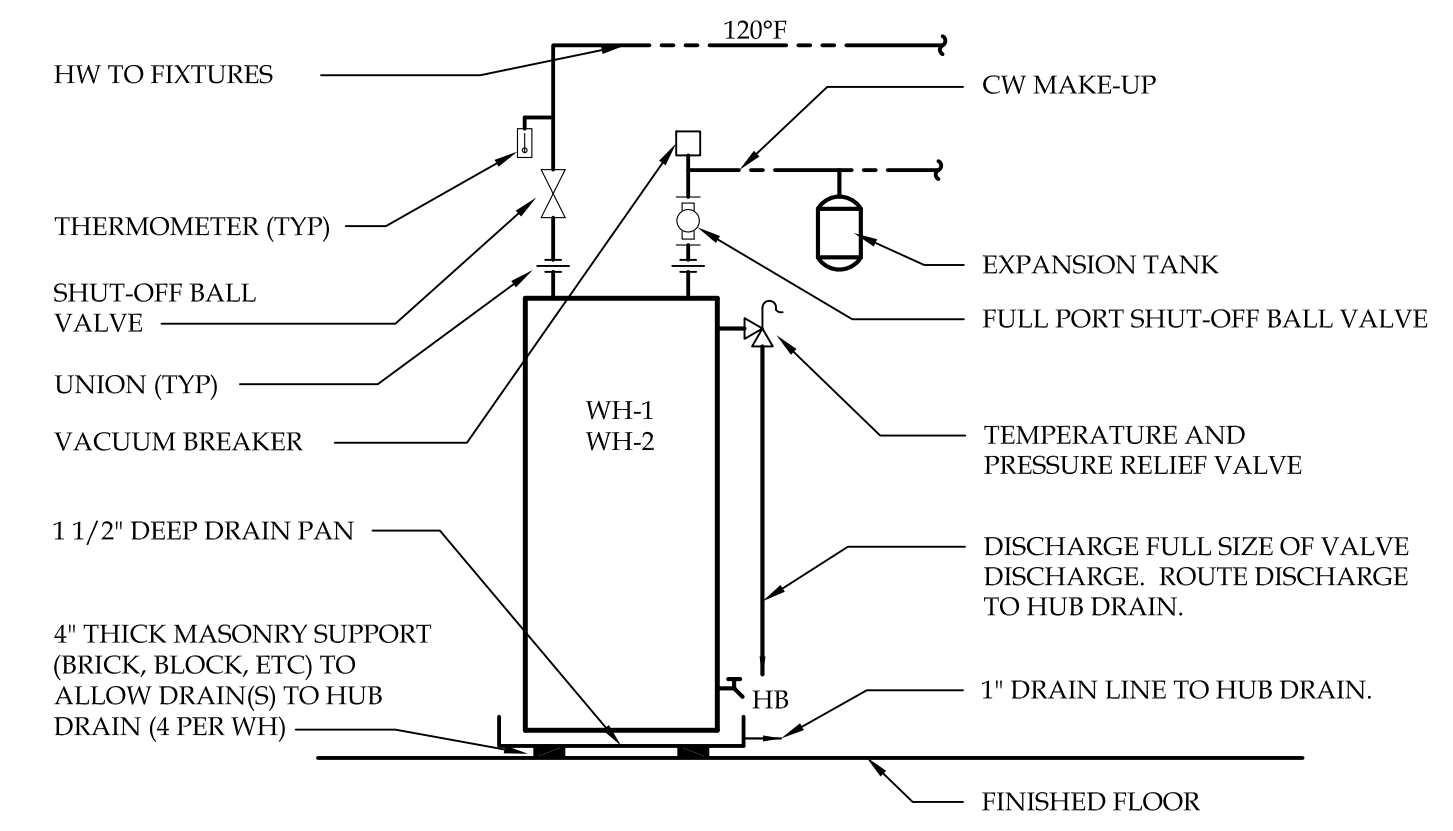
System No. W-L-2377
 F Ratings - 1 and 2 Hr (See Items 1 and 3)
 T Ratings - 1 and 2 Hr (See Items 1 and 3)
 L - Rating at Ambient - Less than 1 CFM/Sq Ft
 L - Rating at 400°F - 4 CFM/Sq Ft



1. Wall Assembly - The 1 and 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
 - B. Gypsum Board* - The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3 in.
 The hourly F and T Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant - One nonmetallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be min of 0 in. (point contact) to a max 1/4 in. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - A. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 2 in. diam (or smaller) FLOWGUARD GOLD® SDR11 CPVC pipe for use in closed (process or supply) piping systems.
 - B. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 2 in. diam (or smaller) BLAZEMASTER® SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. and 1-1/4 in. thickness of fill material applied within annulus, flush with both surfaces of wall for 1 and 2 hr rated assemblies, respectively. At point contact location, a min 1/2 in. diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant

*Bearing the UL Classification Mark

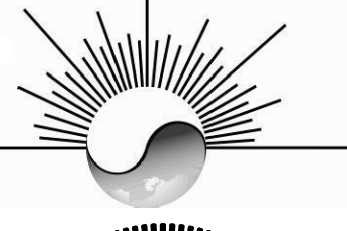
3 UL PENETRATION DETAIL
 N.T.S.



- NOTES:
1. INSTALL WATER HEATER PER MANUFACTURER REQUIREMENTS.
 2. PROVIDE HEAT TRAP ON CW AND HW LINES PER ENERGY CODE.

7 ELECTRIC WATER HEATER DETAIL
 N.T.S.

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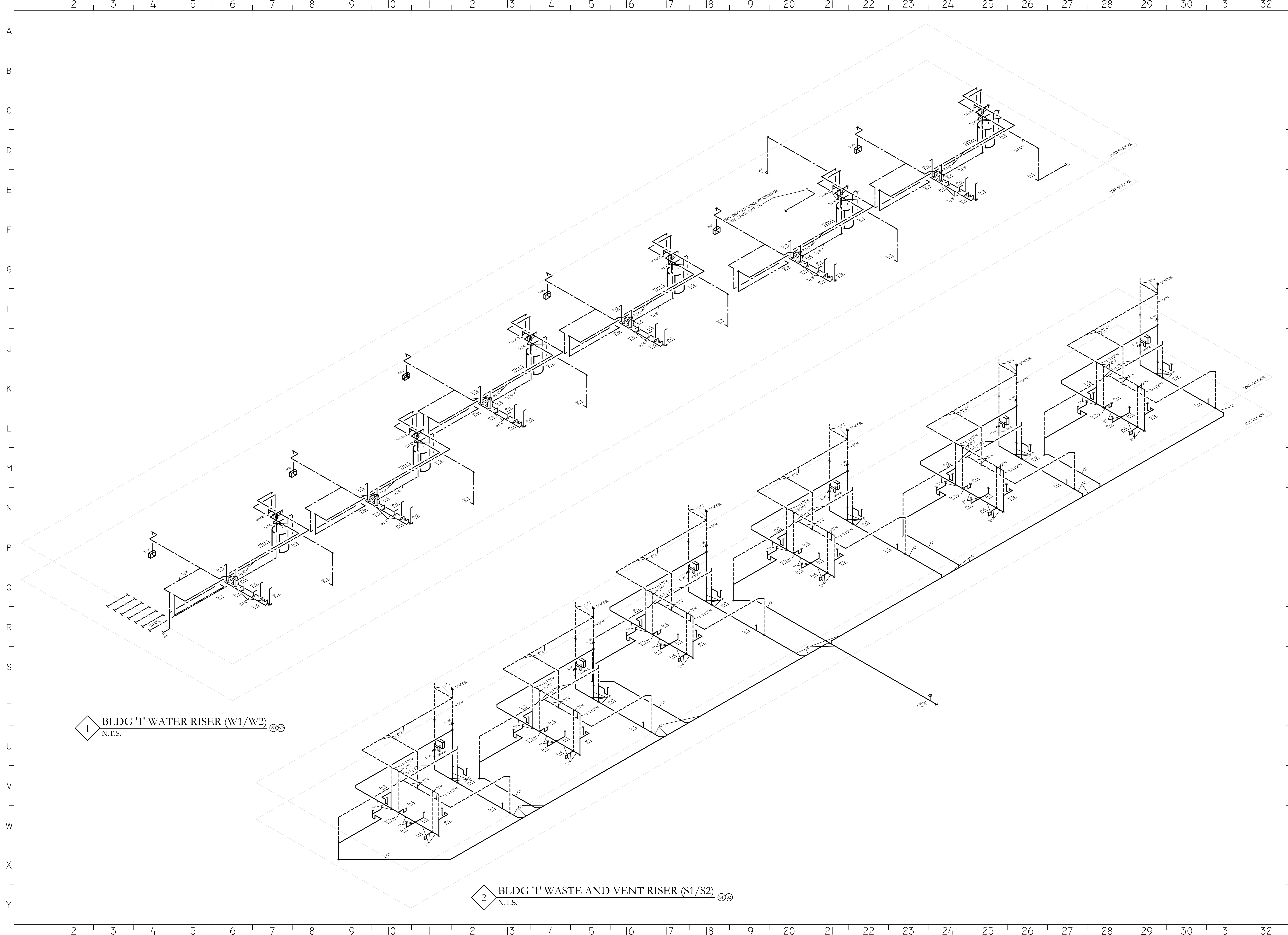
TURNKEY ENGINEERING, INC
 MECHANICAL PLUMBING ELECTRICAL
 P.O. BOX 253
 FRANKFORTH, NC 28520
 NC BUS. LICENSE: 0-026

PROJECT NO.: 19M01-18005
 SEE SHEET #
 DRAWN BY: MRD
 DATE: 10.25.2019
 PERMIT SET
 ISSUE:

Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

REVISIONS

Plumbing Details



1 BLDG '1' WATER RISER (W1/W2) N.T.S.

2 BLDG '1' WASTE AND VENT RISER (S1/S2) N.T.S.

Jill B. Smith Architect, PA
 PO Box 18161 Raleigh, NC 27619-8161
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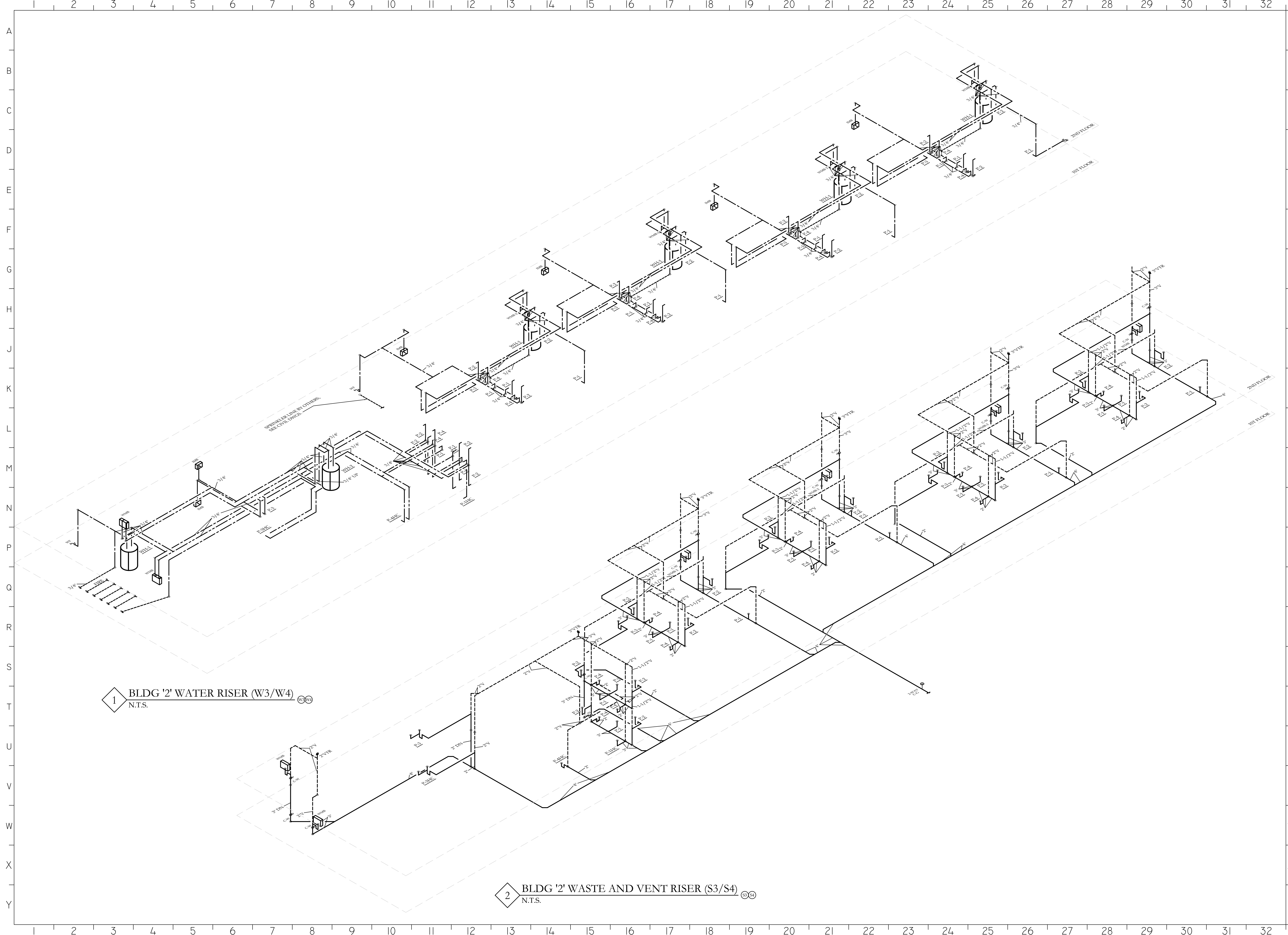


TURNKEY ENGINEERING, PC
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 NC REG. PROFESSIONAL ENGINEER

PROJECT NO.: 19M01-18005
 SEE SHEET #
 DWG NO.: MRD
 DRAWN BY:
 DATE: 10.25.2019
 ISSUE: PERMIT SET
 CLIENT: MEREDITH SQUARE LLC

Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC

REVISIONS
 Plumbing Risers



1 BLDG '2' WATER RISER (W3/W4) (W3/W4)
N.T.S.

2 BLDG '2' WASTE AND VENT RISER (S3/S4) (S3/S4)
N.T.S.

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Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-18005
DWG NO.: SEE SHEET #
DRAWN BY: MRD
DATE: 10.25.2019
ISSUE: PERMIT SET

REVISIONS

Plumbing
Risers

P9.02

GENERAL NOTES

- THE MC SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MFG DIRECTIONS. THE MC SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE(S), INSPECTIONS, APPROVALS, AND FEES.
- THE MC SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS, DUCTWORK, PIPING, AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT. EXACT ROUTING AND PLACEMENT MUST BE DETERMINED IN THE FIELD. VARIANCES BETWEEN THE REQUIREMENTS OF THESE DRAWINGS AND THE CONDITIONS OR DIMENSIONS IN THE FIELD SHALL BE REPORTED TO THE ENGINEER PRIOR TO ORDERING OR PERFORMANCE OF ANY WORK.
- DO NOT SCALE DRAWINGS FOR MEASUREMENTS. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER (COLOR TO MATCH EXTERIOR). INSTALL ESCUTCHEONS WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
- WHERE FIRE DAMPERS ARE NOT REQ'D, SEAL ALL PENETRATIONS OF RATED WALLS WITH SEALANT MATERIAL APPROVED BY LOCAL CODE.
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 5'-0" AFF TO TOP OF DEVICE UON, 4'-0" AFF TO TOP OF DEVICE IN ADA UNITS. PROVIDE THE REQ'D DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT.
- PROVIDE MFG RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE. WHERE POSSIBLE, DUCTWORK AND PIPING SHALL BE INSTALLED AS TIGHT AND AS HIGH AS POSSIBLE TO THE BUILDING ELEMENTS (ROOF, WALLS, FLOORS, STRUCTURE, ETC.) TO PROVIDE THE MOST SPACE AND CLEARANCE. ADDITIONAL FITTING AND/OR OFFSETS NEEDED TO COMPLY SHALL BE PROVIDED.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED. WITHIN CONDITIONED SPACE MIN. R-VALUE = 4. IN AN UNCONDITIONED SPACE, BUT WITHIN THE BUILDING THERMAL ENVELOPE, MIN. R-VALUE = 5. OUTDOORS, OR WITHIN THE BUILDING BUT OUTSIDE OF THE THERMAL ENVELOPE (THIS INCLUDES UNCONDITIONED ATTICS), MIN. R-VALUE = 8. CONCEALED SHEET METAL SHALL BE EXTERNALLY INSULATED WITH MINERAL FIBERBOARD OR BLANKET WITH A FOIL-SCRIM KRAFF JACKET HAVING A MAX. THICKNESS OF 2". CONSTRUCT ALL JOINTS, SEAMS, AND CONNECTIONS FOR METAL DUCTWORK IN ACCORDANCE WITH THE LATEST EDITION OF "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", BY SMACNA. SEALING METHODS INCLUDE MASTICS, OR MASTICS EMBEDDED WITH FABRIC TAPES, TAPES ALONE ARE NOT ALLOWED. ALL MASTICS SHALL BE LISTED AND LABELED WITH UL 181A FOR METAL DUCTWORK AND UL 181B FOR FLEXIBLE DUCTS AND CONNECTORS. FLEX BRANCHES MUST BE SEALED AND MECHANICALLY FASTENED AT THE TAKEOFF. ALL INSULATION, COVERINGS, LININGS, OR ADHESIVES USED SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 USING PROCEDURES OF ASTM E 2231. ANY AND ALL INSULATION AND SEALING PROCEDURES THAT ARE NECESSARY TO COMPLY WITH ANY ENERGY STAR REQUIREMENTS SHALL SUPERSEDE THIS PARAGRAPH EXCEPT FOR ANY PERTAINING TO ASTM TESTING OR UL LISTINGS.
- MC SHALL BALANCE SYSTEMS TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE WITH COMPLETE BALANCE REPORT. MC SHALL HAVE ALL SYSTEMS OPERATING PRIOR TO BALANCING (ALL UNITS OPERATING, CONTROLS, ALL DUCTWORK COMPLETE, FILTERS, ETC.). (4) ADDITIONAL COPIES OF SAID REPORT SHALL BE PROVIDED. (1) TO GC, (1) TO MC, (1) TO ARCHITECT, AND (1) TO ENGINEER. PROVIDE NEW AIR FILTERS FOR EACH UNIT PRIOR TO BALANCE.
- ALL SYSTEMS (RTUs, AH'S, EFS, ETC.), OUTSIDE AIR CONNECTIONS, AND AIR DEVICES SHALL BE BALANCED TO DESIGN CFM VALUES UON. TOLERANCES FROM DESIGN CFM VALUES SHALL BE PER EITHER AABC OR NEBB STANDARDS, WHICHEVER ASSOCIATION THE TB CONTRACTOR IS USING. BALANCING STANDARD MUST BE APPROVED BY THE USGBC OR ACCEPTED BY SMACNA'S HVAC SYSTEMS - TESTING, ADJUSTING AND BALANCING MANUAL.
- AS REQUIRED BY LOCAL CODES, AND WHERE SHOWN ON PLANS, MC SHALL PROVIDE UL LISTED FIRE DAMPERS FOR DUCTWORK AND/OR RADIATION DAMPERS FOR AIR DEVICES WHERE REQ'D FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE UL WALL OR CEILING ASSEMBLY. ACCESS PANELS SHALL BE PROVIDED IN THE DUCTWORK FOR ALL FIRE DAMPERS AND DUCT MOUNTED EQUIPMENT. LOCATE PANELS AS CLOSE TO DEVICE AS POSSIBLE.
- PROVIDE MIN. 1 YEAR WARRANTY ON INSTALLATION AND MATERIALS, IN ADDITION TO SPECIFIED MFG. STD. WARRANTY ON ALL EQUIPMENT.
- ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST AND PLUMBING VENT LOCATIONS.
- CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE SCH 40 PVC. DRAINS FROM MECHANICAL EQUIPMENT SHALL BE TRAPPED. MAINTAIN A MIN. 1% SLOPE. IF ROUTED IN UNCONDITIONED AREAS OR ROOMS WITH THE ONLY EXIT TO THE OUTDOORS, OR OUTSIDE OF THE BUILDING INSULATED ENVELOPE (IE UNCONDITIONED, VENTILATED ATTIC), ALL PIPING MUST BE INSULATED WITH A MIN. OF R-6.5 IN ACCORDANCE WITH ASTM C177 (INSULATION THICKNESS TO ACHIEVE R-6.5 WILL VARY BY MFG.). INSULATION SHALL BE OF THE CLOSED CELL TYPE WITH A FLAME DENSITY RATING NOT EXCEEDING 25 AND A SMOKE DENSITY RATING NOT EXCEEDING 50. INSULATION SHALL NOT CONTRIBUTE SIGNIFICANTLY TO FIRE. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
- ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", BY SMACNA. INDIVIDUAL SUPPLY, RETURN, TRANSFER, AND COMMON AREA EXHAUST RUNOUTS MAY BE INSULATED FLEX DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 INSULATED FLEX AIR DUCTS AND NFPA 90A AND 90B. ALL SUPPLY DUCTWORK SHALL BE RATED FOR 1" WC POSITIVE STATIC PRESSURE AND ALL RETURN AND EXHAUST DUCTWORK SHALL BE RATED FOR 0.5" WC NEGATIVE STATIC PRESSURE. COMMON RETURN SHALL BE SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, COVERED WITH INSULATION WITH VAPOR BARRIER. FLEX DUCT INSULATION R-VALUES PER GENERAL NOTES.
- THE MC SHALL PROVIDE LOW VOLTAGE CONTROL LINES TO ALL MECHANICAL EQUIPMENT. COORDINATE ROUTING AND INSTALLATION WITH THE GC. EC TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ETC. TO ALL MECHANICAL EQUIPMENT. ALL FINAL ELECTRICAL CONNECTIONS ARE BY EC.
- OUTSIDE AIR DUCTWORK SHALL BE INSULATED WITH A MIN. R-VALUE = 8. WHEN USING RIGID DUCT, INSULATION SHALL BE EXTERNAL WRAP OF AT LEAST 1 1/2" WITH VAPOR BARRIER.
- REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED & INSTALLED IN ACCORDANCE WITH THE MFG. RECOMMENDATIONS, INSTALLATION INSTRUCTIONS AND LOCAL CODES. COORDINATE ROUTING AND INSTALLATION WITH THE GC. OIL TRAPS MUST BE INSTALLED AT MINIMUM DISTANCES INDICATED BY THE MFG. ALL SUCTION LINE PIPING MUST BE INSULATED WITH A MIN. THICKNESS OF 1/2" AND THE INSULATION SHALL HAVE A CONDUCTIVITY (K) RATING NOT EXCEEDING 0.27 BTU/(IN*HR*FT*°F). LIQUID LINE PIPING, WHEN RAN IN UNCONDITIONED ATTICS, SHALL ALSO BE INSULATED TO THE SPECIFICATIONS IN THIS NOTE. INSULATION SHALL BE OF THE CLOSED CELL TYPE WITH A FLAME DENSITY RATING NOT EXCEEDING 25 AND A SMOKE DENSITY RATING NOT EXCEEDING 50. INSULATION SHALL NOT CONTRIBUTE SIGNIFICANTLY TO FIRE. INSULATION OUTDOORS SHALL BE PROVIDED WITH A UV RESISTANT PVC JACKET FOR SUN AND ANIMAL PROTECTION. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS UNLESS DOING SO WILL VOID A UL LISTED ASSEMBLY FOR FIRE RATED PENETRATIONS.
- MC SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF AND OA HOODS, LOUVERS, AND ROOF AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
- PENETRATIONS OF RATED WALLS, PARTITIONS AND FLOORS OF NON-COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH NONCOMBUSTIBLE MATERIALS. PENETRATIONS OF NONRATED WALLS, PARTITIONS, AND FLOORS OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MC. MC IS ALSO RESPONSIBLE FOR PAINTING ALL MECHANICAL EQUIPMENT WHEN SHOWN ON PLANS, WHEN NECESSARY, OR WHEN REQUESTED BY THE ARCHITECT OR OWNER PRIOR TO INITIAL START OF WORK. CONFIRM PAINT COLORS WITH ARCHITECT AND OWNER PRIOR TO PURCHASE. MC SHALL BE RESPONSIBLE FOR CLEANLINESS OF WORK.
- ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UL OR AN EQUIVALENT TESTING AGENCY ACCEPTABLE TO LOCAL CODES AND AHJ.
- MC SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND A WRITTEN CONTROL SEQUENCE NARRATIVE ON EACH SYSTEM TO THE OWNER WITH COPIES TO THE ENGINEER PRIOR TO CONTRACTOR'S SUBMISSION OF APPENDIX 5 TO THE AHJ.
- A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES & SEALED BY THEIR REGISTERED ENGINEER & INSTALLED BY THIS CONTRACTOR, IF REQ'D BY APPLICABLE CODES FOR THE LOCALS OF THIS PROJECT.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GC	GENERAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE
A	AMPS	HP	HORSEPOWER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
ARI	AMERICAN REFRIGERATION INSTITUTE	MBH	1,000 BTU/HR	SCL DEF	SINGLE DEFLECTION
AHJ	AUTHORITY HAVING JURISDICTION	MFG	MANUFACTURER	ST	SOUND TRAP
AUX	AUXILIARY	MOC _P	MAXIMUM OVERCURRENT PROTECTION	STD	STANDARD
BDD	BACK DRAFT DAMPER	MC	MECHANICAL CONTRACTOR	SA	SUPPLY AIR
CO ₂	CARBON DIOXIDE	MIN	MINIMUM	TB	TEST AND BALANCE CONTRACTOR
CLG	CEILING	MCA	MINIMUM CIRCUIT AMPACITY	TEL	TOTAL EQUIVALENT LENGTH
CFM	CUBIC FEET PER MINUTE	MD	MOTORIZED DAMPER	TRANS	TRANSFER
DBL DEF	DOUBLE DEFLECTION	OA	OUTSIDE AIR	TO	TRANSFER OPENING
EFF	EFFICIENCY	PC	PLUMBING CONTRACTOR	UL	UNDERWRITERS' LABORATORIES
EC	ELECTRICAL CONTRACTOR	PERF	PERFORATED	UON	UNLESS OTHERWISE NOTED
EER	ENERGY EFFICIENCY RATIO	PH	PHASE	V	VOLTS
ESP	EXTERNAL STATIC PRESSURE	RH	RELATIVE HUMIDITY	VD	MANUAL VOLUME DAMPER
FIX BLD	FIXED BLADE	REQ'D	REQUIRED	WC	WATER COLUMN
HZ	FREQUENCY	RET	RETURN	W	WATTS

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

AIR HANDLING UNIT DATA														HEAT PUMP							
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN DATA				COOLING		HEATING		ELECTRICAL DATA			GENERAL DATA			ELECTRICAL DATA		NOTES		
			FAN CFM	ESP (" OF WC)	MOTOR (HP)	OA (CFM)	TOTAL NET (MBH)	SENSIBLE NET (MBH)	TOTAL @17°AUX. ELEC (kW@240)	VOLTAGE (V/PH)	MCA (A)	MOC _P (A)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)		MOC _P (A)	
AHU-1	TOWN HOMES	GOODMAN AVPTC33C14	750	0.60"	1/2	-0-	23.4	18.6	14.4	5.0	240/1Ø	29.9	30	HP-1	GOODMAN DS2C16241A	2.0	(15.0)	240/1Ø	15.8	25	1-9
AHU-2	FLAT UNITS	GOODMAN AWUF30516A	750	0.50"	1/2	-0-	22.8	18.2	13.0	5.0	240/1Ø	29.9	30	HP-2	GOODMAN DS2140241K	2.0	(14.5)	240/1Ø	14.6	25	1-4, 6-9

- NOTES:**
- COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS SHALL BE TESTED IN ACCORDANCE WITH ARI STANDARD 340.
 - REFRIGERANT PIPING TO BE SIZED PER INSTALLED T.E.L. LONG-LINE APPLICATION KIT TO BE PROVIDED WHENEVER MFG. STD. LENGTHS ARE EXCEEDED, INCLUDING LIQUID LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.
 - PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.
 - PROVIDE MFG'S 24 HR, 7 DAY PROGRAMMABLE 1 COOL/2 HEAT THERMOSTAT W/ MANUAL OVERRIDE FOR AHU-2S. FOR AHU-1S, PROVIDE HONEYWELL HZ432 TRUEZONE PANEL WITH FOCUS PRO (3 HEAT/2 COOL) PROGRAMMABLE THERMOSTATS FOR EACH ZONE.
 - TWO-STAGE COMPRESSOR, CONDENSER FAN, AND VARIABLE SPEED AIR HANDLER ARE REQUIRED TO ALLOW ZONED SYSTEM.
 - OUTDOOR SENSOR TO LOCK-OUT ELECTRIC HEAT WHEN TEMPERATURE IS 45°F OR HIGHER. PROVIDE UNIT WITH EMERGENCY HEAT OVERRIDE OPTION.
 - FREEZE PROTECTION, AND ANTI-SHORT CYCLE.
 - PROVIDE 2 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION, AND ONE AT TURNOVER TO OWNER.
 - CATALOG NUMBERS AND MFG.'S ARE TO INDICATE TYPE AND QUALITY OF UNIT DESIRED.

FANS SCHEDULE

TAG	USE	AREA SERVED	CFM	ESP (" WC)	RPM	STYLE AND ARRANGEMENT	MOTOR HP AND VOLTAGE	MANUFACTURER & MODEL	DRIVE	CONTROL	NOTES
EF-1	EXHAUST	BATHROOMS	70	0.10"	MFG	CEILING FAN/LIGHT	142 W - 1.2 A 120/1Ø	BROAN A70L	DIRECT	A	1-6

- NOTES:**
- BIRDSCREEN AT EXTERIOR PENETRATION.
 - BACKDRAFT DAMPER. MAY BE EITHER INTEGRAL AT FAN DISCHARGE OR PART OF EXTERIOR PENETRATION.
 - COLOR OF DISCHARGE DEVICE BY ARCHITECT, OR MATCH ROOF/WALL. ROOF JACKS MAY BE BLACK.
 - INTEGRAL DISCONNECT SWITCH.
 - PROVIDE FACTORY ROOF JACK DISCHARGE 636 OR WALL CAP 885BL PAINTED TO MATCH EXTERIOR.
 - PROVIDE AND INSTALL 13W CFL BULB.
- CONTROL METHOD:** A. W/ ROOM LIGHTS.

AIR DEVICE SCHEDULE

TAG	FACE SIZE	NECK SIZE	FRAME TYPE	PATTERN	MATERIAL	USE	FINISH	MANUFACTURER & MODEL	NOTES
A	NECK + 2"	12x6	SURFACE	2-WAY	STEEL	SUPPLY	STD.	HART & COOLEY 682M	1, 2
B	NECK + 2"	12x4	SURFACE	2-WAY	STEEL	SUPPLY	STD.	HART & COOLEY 682M	1, 2
C	NECK + 2"	8x4	SURFACE	2-WAY	STEEL	SUPPLY	STD.	HART & COOLEY 682M	1, 2
D	NECK + 2"	20x24	SURFACE	FIX. BLD.	STEEL	TRANSFER	STD.	HART & COOLEY 672	
E	NECK + 2"	14x8	SURFACE	FIX. BLD.	STEEL	TRANSFER	STD.	HART & COOLEY 672	

- NOTES:**
- WHERE SUPPLY DEVICES ARE INSTALLED IN A NON-PLENUM CEILING OR WALL, PROVIDE FACTORY INSTALLED INSULATION BACKING TO PREVENT CONDENSATION. ALTERNATIVELY, FIELD SUPPLY AND INSTALL.
 - SUPPLY DEVICES WITH SQUARE NECKS SHALL BE EQUIPPED WITH A SQUARE TO ROUND TRANSITION BOOT. ROUND SIZE PER PLAN CFM VALUES.

UNIT HEATER SCHEDULE

TAG	AREA SERVED	CAPACITY (BTU/HR)	ELECTRICAL DATA		MANUFACTURER & MODEL	NOTES
			WATTS	VOLTAGE		
UH-1	RISER ROOM	1,706	500	120/1Ø	MARKEL RPH1-5A	1, 2, 3

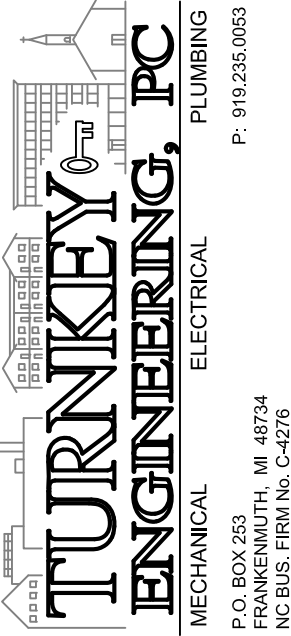
- NOTES:**
- U.L. LISTED.
 - INTERNAL THERMOSTAT.
 - MOUNT A MIN. OF 12" AFF.

MECHANICAL LEGEND

- RECTANGULAR DUCT (WIDTH BY DEPTH)
- RIGID ROUND METAL DUCT
- FLEX ROUND DUCT
- ELBOW WITH TURNING VANES
- VOLUME DAMPER
- SUPPLY/RETURN/EXHAUST TAP WITH VOLUME DAMPER
- SUPPLY/RETURN/EXHAUST TAP
- SUPPLY DIFFUSER/GRILLE OR RISER
- RETURN REGISTER/GRILLE OR RISER
- EXHAUST REGISTER/GRILLE OR RISER
- TRANSFER REGISTER/GRILLE OR RISER
- SUPPLY SIDEWALL DIFFUSER/GRILLE
- RETURN SIDEWALL DIFFUSER/GRILLE
- TRANSFER SIDEWALL GRILLE
- CEILING EXHAUST FAN
- CONDENSATE DRAIN
- T-STAT
- REMOTE DUCT MOUNTED TEMP SENSOR (HONEYWELL C7735A1000)
- 1' DOOR UNDER CUT
- ROUND OR RECTANGULAR VVT ZONE DAMPER, SIZE PER FLOOR PLAN. EQUAL TO HONEYWELL DM7600 SERIES (RD), D2 SERIES (RECT), BOTH WITH ML6161 ACTUATOR (24V). PROVIDE XFMR, EC TO POWER.
- AIR DEVICE TAG
- AIR DEVICE CFM
- U.L. FIRE DAMPER W/ ACCESS DOOR
- U.L. RADIATION DAMPER

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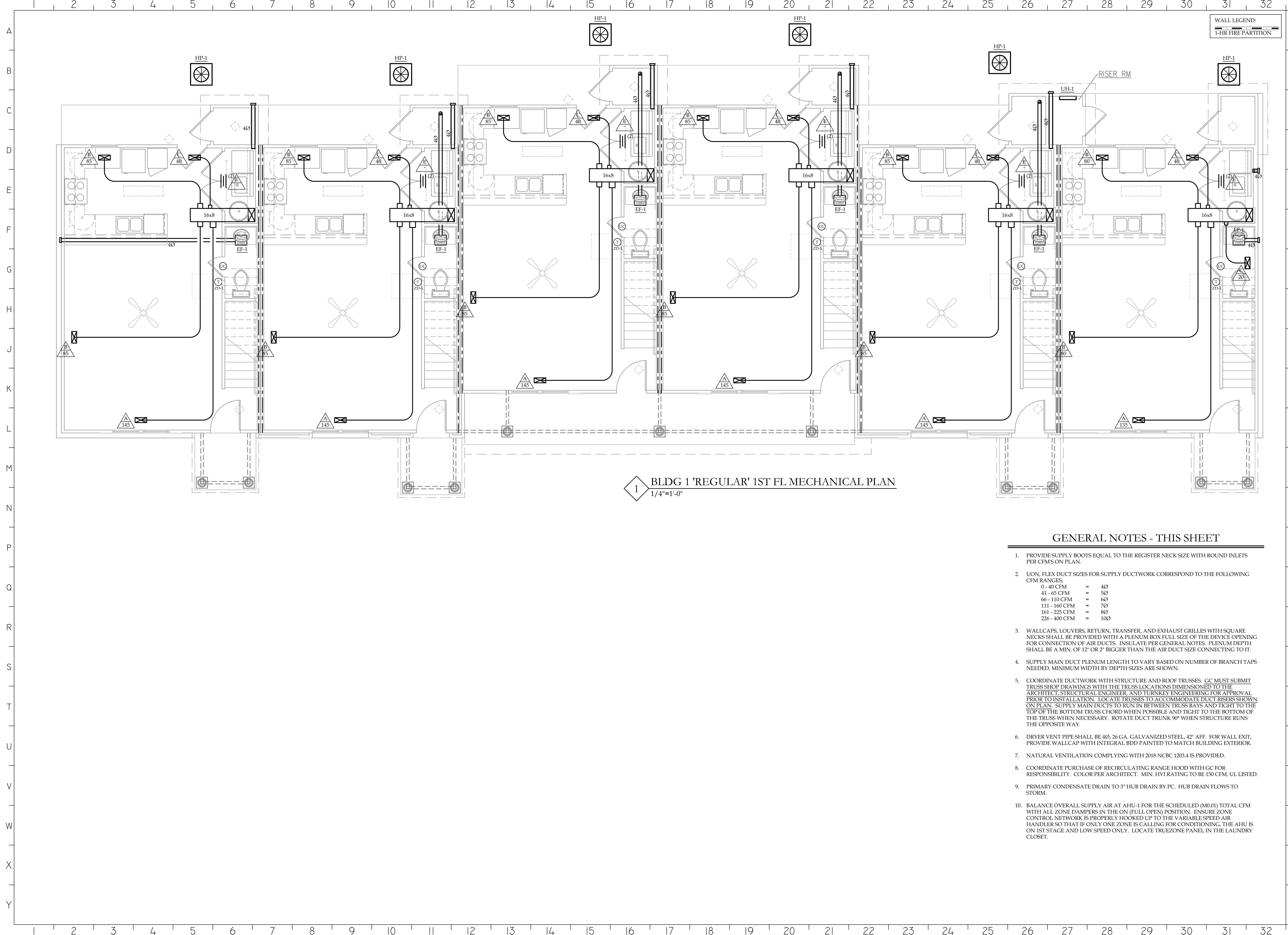
PROJECT NO.: 19M01-19005
DWG NO.: SEE SHEET #
DRAWN BY: MRD
DATE: 10.25.2019
ISSUE: PERMIT SET

REVISIONS

Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

M0.01

Mechanical Legend & Schedules



1 BLDG 1 'REGULAR' 1ST FL MECHANICAL PLAN
1/4"=1'-0"

GENERAL NOTES - THIS SHEET

1. PROVIDE SUPPLY BOOTS EQUAL TO THE REGISTER NECK SIZE WITH ROUND INLETS PER CFM'S ON PLAN.
2. UON, FLEX DUCT SIZES FOR SUPPLY DUCTWORK CORRESPOND TO THE FOLLOWING CFM RANGES:

0 - 40 CFM	=	40
41 - 65 CFM	=	50
66 - 110 CFM	=	60
111 - 160 CFM	=	70
161 - 225 CFM	=	80
226 - 400 CFM	=	100
3. WALLCAPS, LOUVERS, RETURN, TRANSFER, AND EXHAUST GRILLES WITH SQUARE NECKS SHALL BE PROVIDED WITH A PLENUM BOX FULL SIZE OF THE DEVICE OPENING FOR CONNECTION OF AIR DUCTS. INSULATE PER GENERAL NOTES. PLENUM DEPTH SHALL BE A MIN. OF 12" OR 2" BIGGER THAN THE AIR DUCT SIZE CONNECTING TO IT.
4. SUPPLY MAIN DUCT PLENUM LENGTH TO VARY BASED ON NUMBER OF BRANCH TAPS NEEDED, MINIMUM WIDTH BY DEPTH SIZES ARE SHOWN.
5. COORDINATE DUCTWORK WITH STRUCTURE AND ROOF TRUSSES. GC MUST SUBMIT TRUSS SHOP DRAWINGS WITH THE TRUSS LOCATIONS DIMENSIONED TO THE ARCHITECT, STRUCTURAL ENGINEER, AND TURNKEY ENGINEERING FOR APPROVAL PRIOR TO INSTALLATION. LOCATE TRUSSES TO ACCOMMODATE DUCT RISERS SHOWN ON PLAN. SUPPLY MAIN DUCTS TO RUN IN BETWEEN TRUSS BAYS AND TIGHT TO THE TOP OF THE BOTTOM TRUSS CHORD WHEN POSSIBLE AND TIGHT TO THE BOTTOM OF THE TRUSS WHEN NECESSARY. ROTATE DUCT TRUNK 90° WHEN STRUCTURE RUNS THE OPPOSITE WAY.
6. DRYER VENT PIPE SHALL BE 40, 26 GA. GALVANIZED STEEL, 42" AFF. FOR WALL EXIT, PROVIDE WALLCAP WITH INTEGRAL BDD PAINTED TO MATCH BUILDING EXTERIOR.
7. NATURAL VENTILATION COMPLYING WITH 2018 NCBC 1203.4 IS PROVIDED.
8. COORDINATE PURCHASE OF RECIRCULATING RANGE HOOD WITH GC FOR RESPONSIBILITY. COLOR PER ARCHITECT. MIN. HVI RATING TO BE 150 CFM, UL LISTED.
9. PRIMARY CONDENSATE DRAIN TO 3" HUB DRAIN BY PC. HUB DRAIN FLOWS TO STORM.
10. BALANCE OVERALL SUPPLY AIR AT AHU-1 FOR THE SCHEDULED (M0.01) TOTAL CFM WITH ALL ZONE DAMPERS IN THE ON (FULL OPEN) POSITION. ENSURE ZONE CONTROL NETWORK IS PROPERLY HOOKED UP TO THE VARIABLE SPEED AIR HANDLER SO THAT IF ONLY ONE ZONE IS CALLING FOR CONDITIONING, THE AHU IS ON 1ST STAGE AND LOW SPEED ONLY. LOCATE TRUEZONE PANEL IN THE LAUNDRY CLOSET.

PROJECT NO.: 19M01-19005
 DWG NO.:
 DRAWN BY: MRD
 DATE: 10.25.2019
 ISSUE: PERMIT SET

SEE SHEET #
 10.25.2019
 PERMIT SET

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 NC REG. #19005-0000

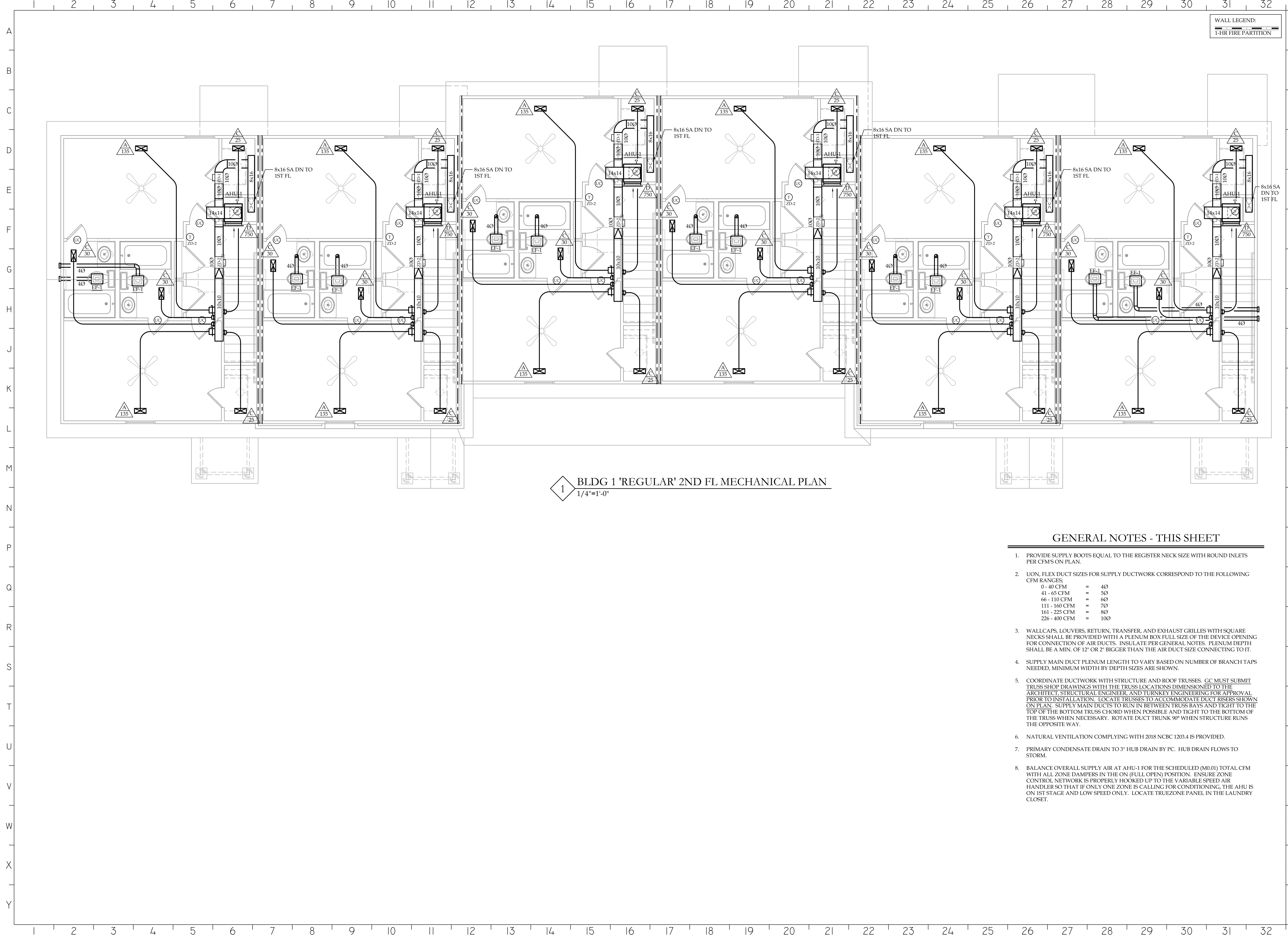
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Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

REVISIONS

Mechanical
 Bldg 1 Reg
 Plan

M1.01



1 BLDG 1 'REGULAR' 2ND FL MECHANICAL PLAN
1/4"=1'-0"

GENERAL NOTES - THIS SHEET

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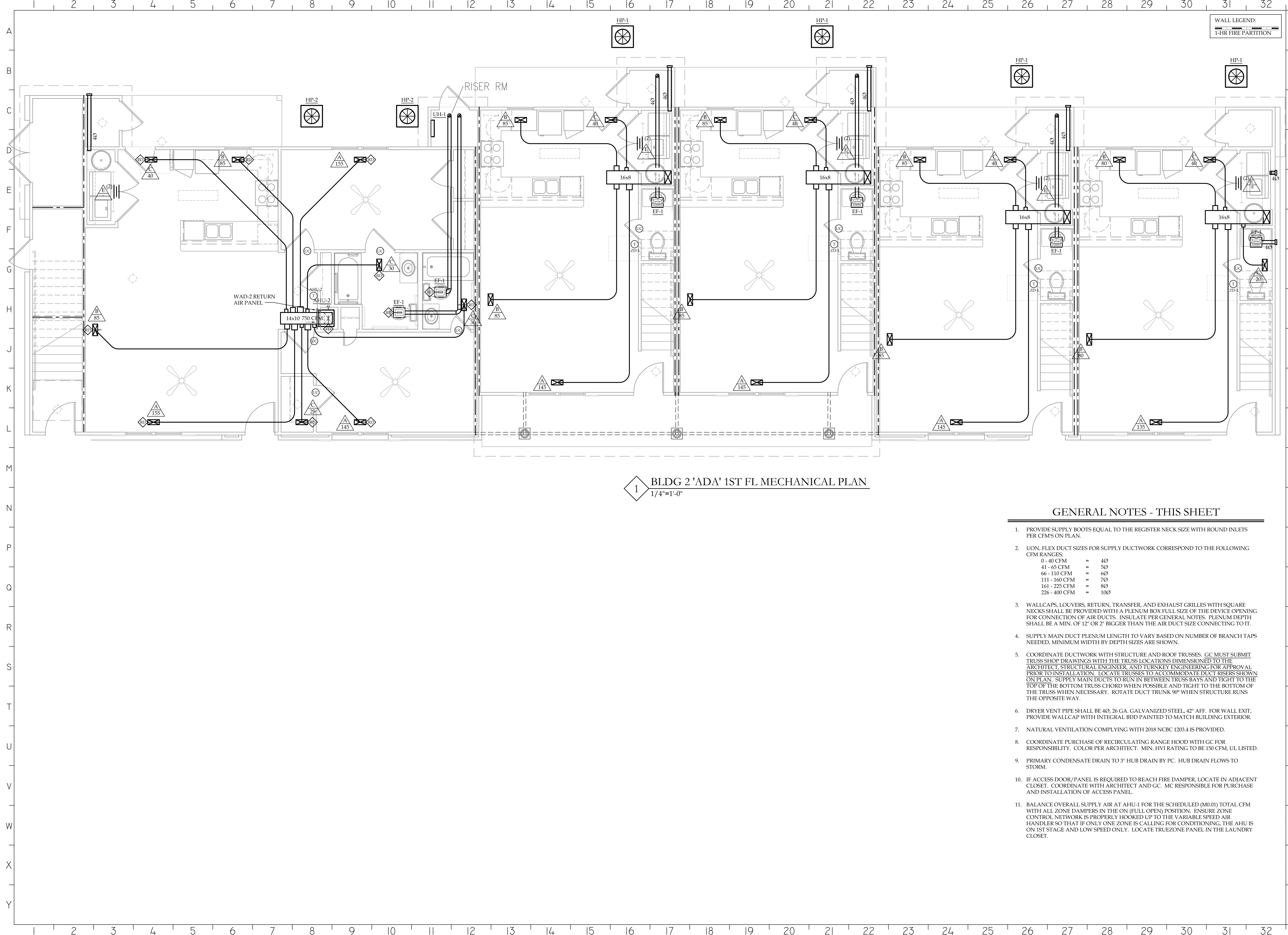
Meredith Square Phase 3
Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-19005
 SEE SHEET # MRD
 DRAWN BY: MRD
 DATE: 10.25.2019
 PERMIT SET
 ISSUE:

REVISIONS

Mechanical
Bldg 1 Reg
Plan

M1.02



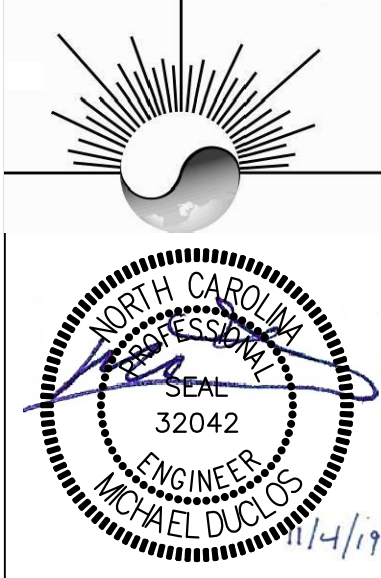
1 BLDG 2 'ADA' 1ST FL MECHANICAL PLAN
1/4"=1'-0"

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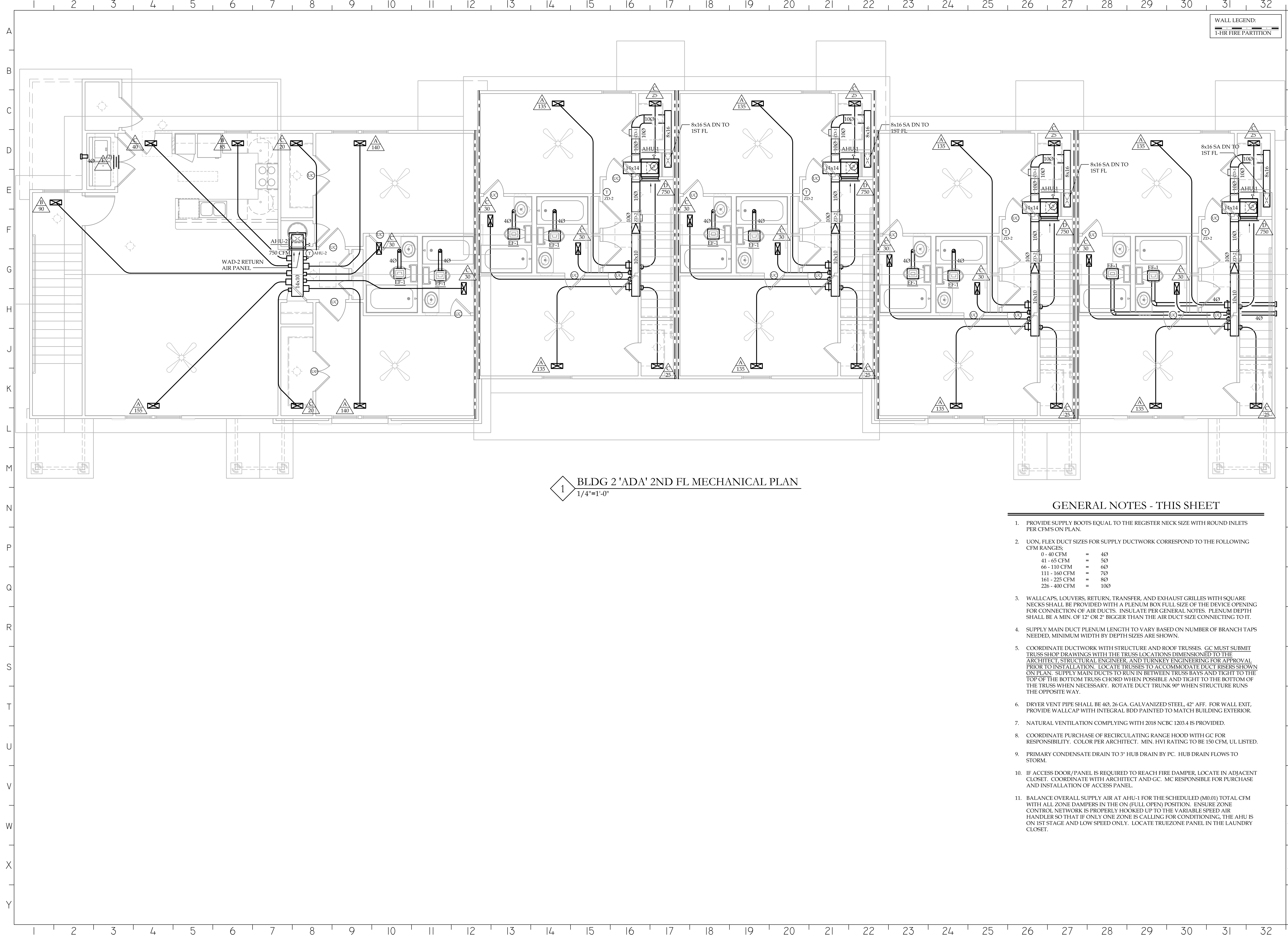
Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-18005
 SEE SHEET # MRD
 DRAWN BY: 10.25.2019
 DATE: PERMIT SET
 ISSUE:

REVISIONS

Mechanical
 Bldg 2 ADA
 Plan

M1.03



1 BLDG 2 ADA 2ND FL MECHANICAL PLAN
1/4"=1'-0"

GENERAL NOTES - THIS SHEET

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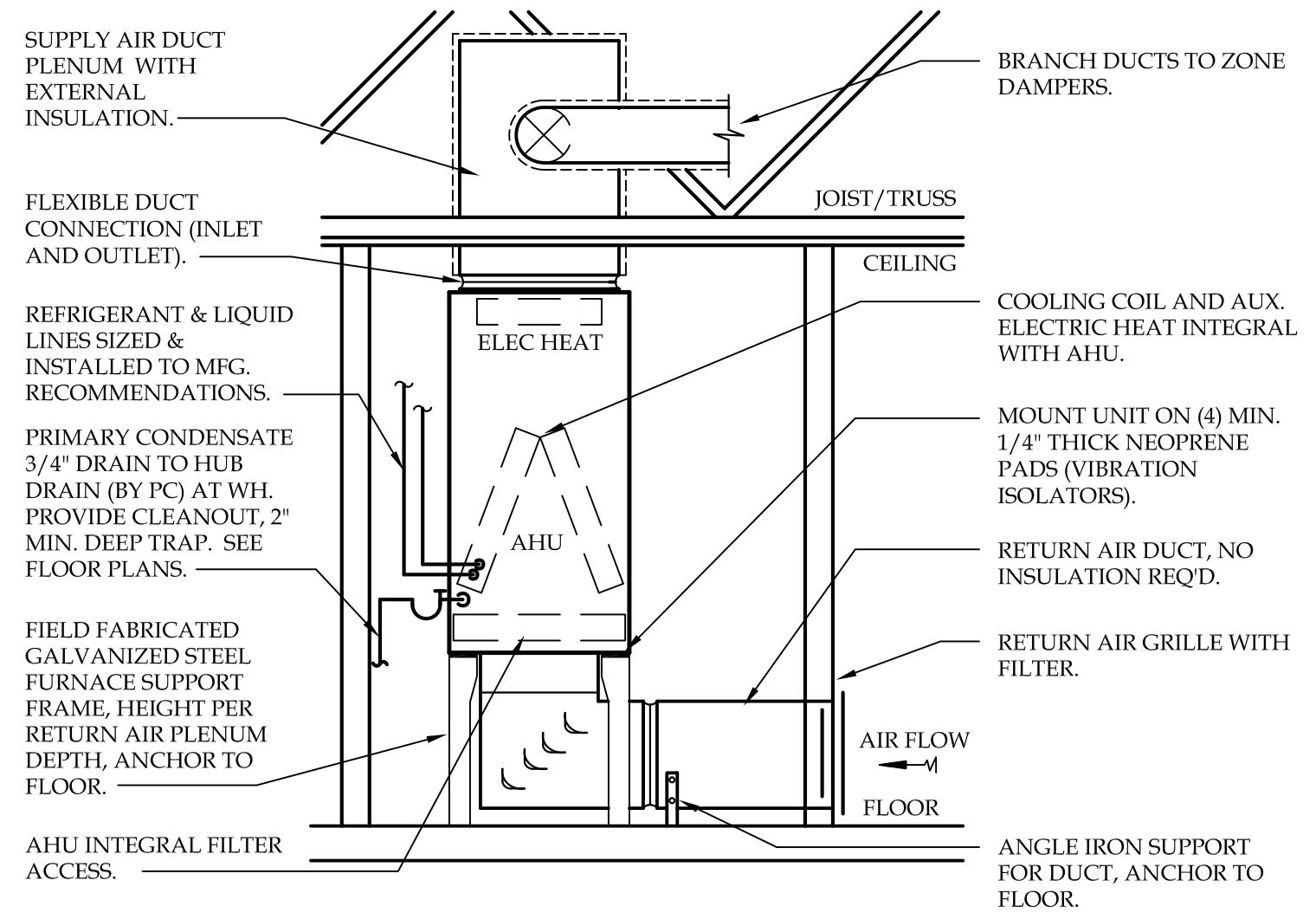
Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-18005
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REVISIONS

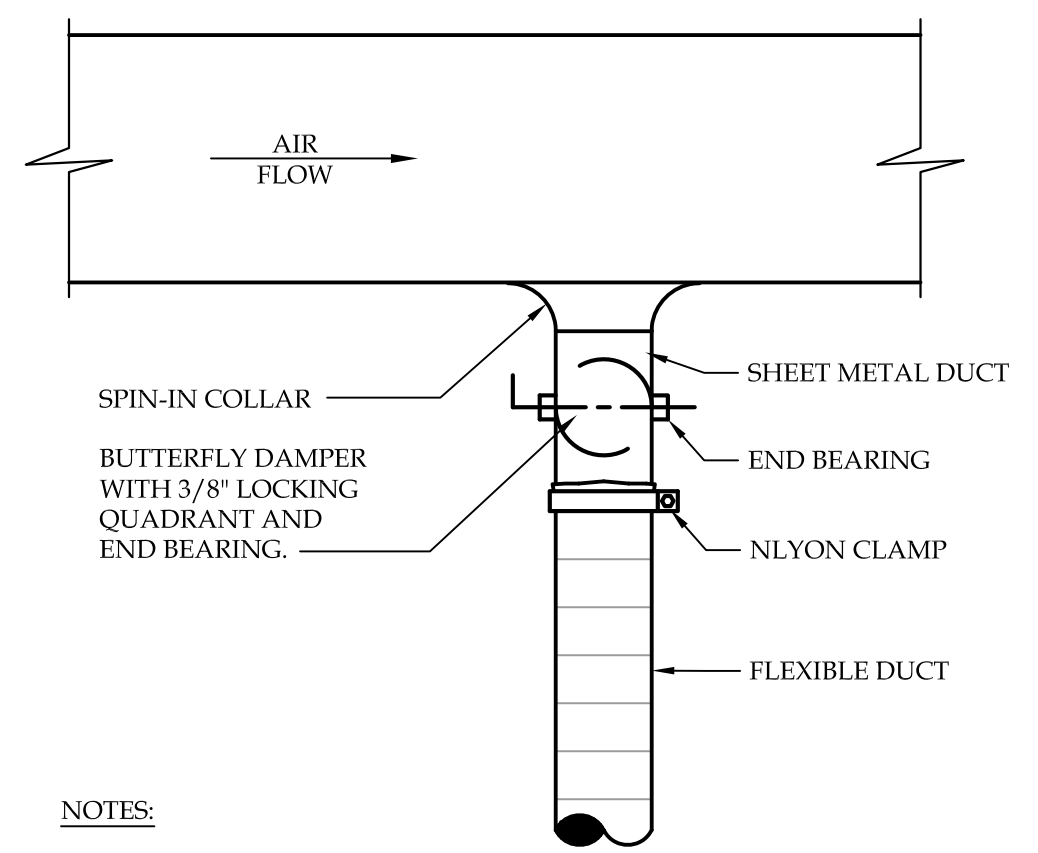
Mechanical
Bldg 2 ADA
Plan

M1.04



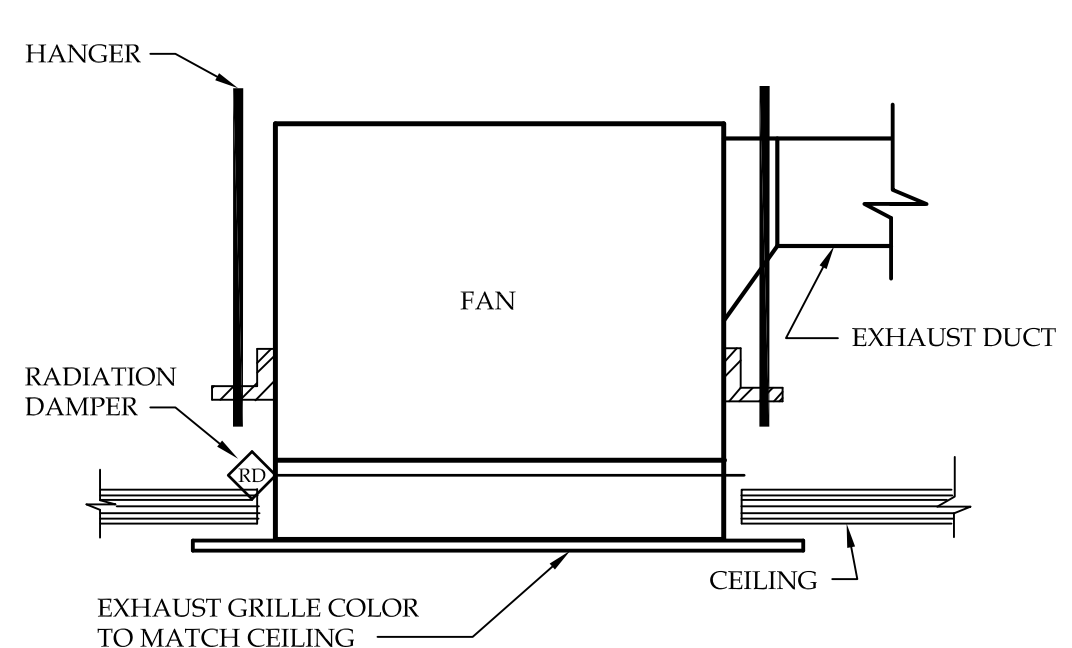
- NOTES:**
1. SECONDARY CONDENSATE DRAIN (NOT SHOWN), PROVIDE WITH A WATER LEVEL DETECTION DEVICE CONFORMING TO UL 508 (MICROFLOAT SWITCH), INTERLOCK FLOAT SWITCH W/ AHU TO SHUT DOWN AHU IN THE EVENT THE DEVICE DETECTS WATER.

1 UNIT AHU-1 DETAIL
N.T.S.



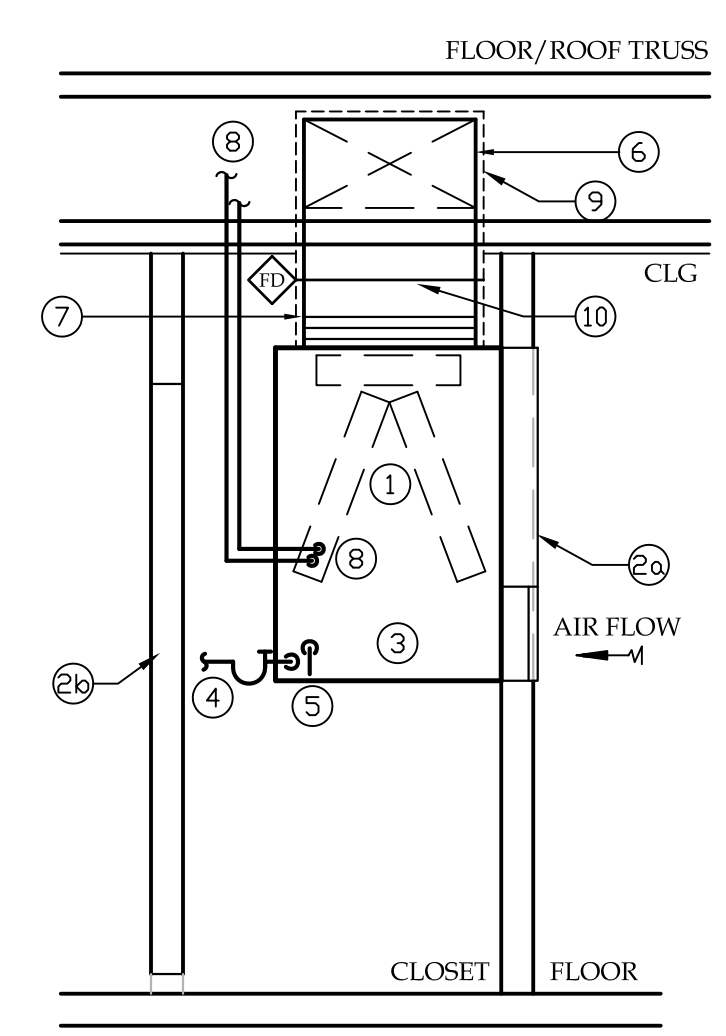
- NOTES:**
1. SEE HVAC GENERAL NOTES FOR DUCT AND INSULATION REQUIREMENTS.
 2. TAP OFF ANY FACE OF THE MAIN DUCT AS NECESSARY.

3 TAKEOFF TO SINGLE OUTLET
N.T.S.



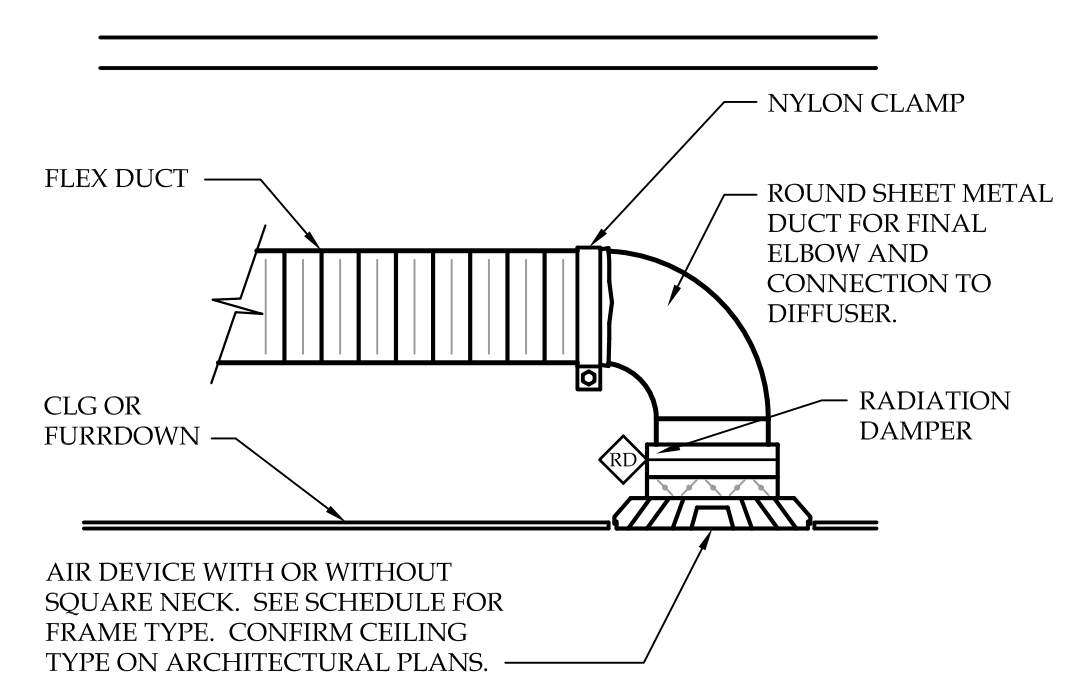
- NOTES:**
1. SEE FLOOR PLANS AND SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
 2. TAP OFF TOP/SIDE/BOTTOM OF DUCT AS REQUIRED
 3. RADIATION DAMPERS ARE ONLY REQUIRED AT FANS IN THE SINGLE FLOOR UNITS ON THE 1ST FLOOR.

5 CEILING EXHAUST FAN
N.T.S.



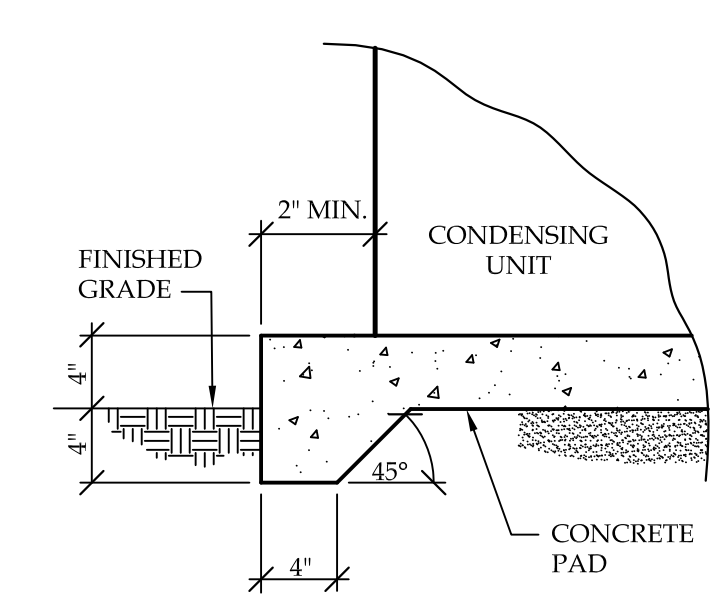
- NOTES:**
1. AIR HANDLER IN CLOSET, FRONT RETURN.
 - 2a. WALL PANEL BY UNIT MFG INTEGRAL WITH R.A. GRILLE. (SEE UNIT PLANS FOR WHICH ONES USE WALL PANEL)
 - 2b. DOOR (BY GC, SEE ARCH. PLANS).
 3. FILTER RACK FOR 1\"/>

2 UNIT AHU-2 DETAIL
N.T.S.



- NOTES:**
1. SEE HVAC GENERAL NOTES FOR DUCT AND INSULATION REQUIREMENTS.
 2. PROVIDE SQUARE TO ROUND ADAPTER FOR DIFFUSERS WITH SQUARE NECKS.
 3. PROVIDE OPPOSED BLADE DAMPER AT DIFFUSER ONLY WHEN BRANCH TAP IS NOT ACCESSIBLE.
 4. RADIATION DAMPERS ARE ONLY REQUIRED AT DEVICES IN THE SINGLE FLOOR UNITS ON THE 1ST FLOOR.

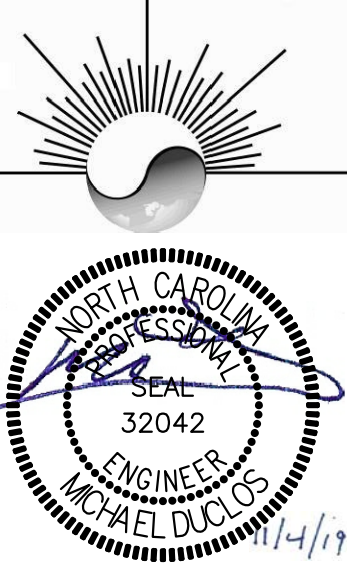
4 AIR DEVICE CONNECTION
N.T.S.



- NOTES:**
1. PAD AND UNIT MUST BE INSTALLED LEVEL. MAXIMUM DEVIATION FROM HORIZONTAL PLANE IS 2%.
 2. FINISHED GRADE MUST BE COMPACTED SOIL.
 3. FOR UNITS 5 TONS AND UNDER, IN LIEU OF CONCRETE PAD, MC MAY SUBSTITUTE MFG. STD. POLYETHYLENE STRUCTURAL BASE WITH UNIT SUPPORT FEET.

6 CONDENSING UNIT PAD
N.T.S.

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Meredith Square Phase 3 Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-18005
DWG NO.: SEE SHEET #
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REVISIONS

Mechanical Details

M5.01

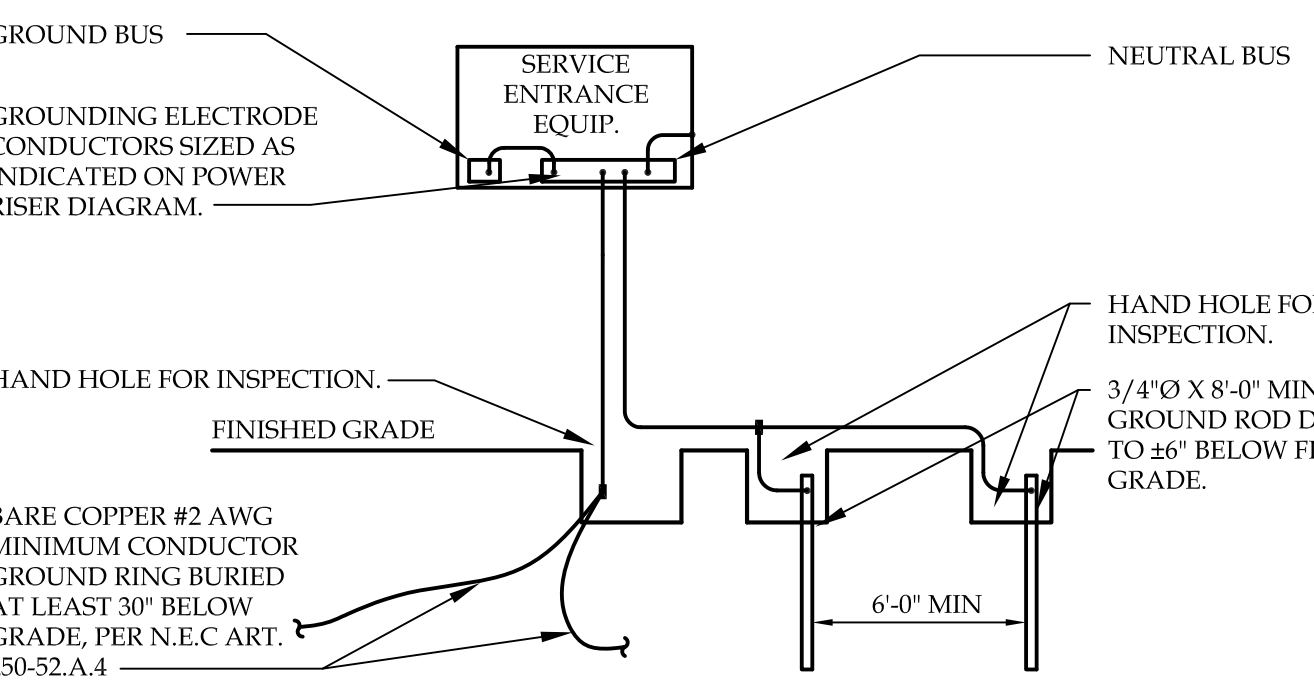
ELECTRICAL ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MFG	MANUFACTURER(S)
AFG	ABOVE FINISHED GRADE	NEC	NATIONAL ELECTRIC CODE
AHJ	AUTHORITY HAVING JURISDICTION	NEMA	NATIONAL ELECTRICAL MFG. ASSOCIATION
AL	ALUMINUM	NIC	NOT INCLUDED
COND	CONDUCTORS	PC	PLUMBING CONTRACTOR
C	CONDUIT	RCPT(S)	RECEPTACLE(S)
CU	COPPER	RM(S)	ROOM(S)
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
FACP	FIRE ALARM CONTROL PANEL	UNO	UNLESS OTHERWISE NOTED
FPN	FUSE PER EQUIPMENT NAMEPLATE	WP	DEVICE WITH WEATHERPROOF COVER
GC	GENERAL CONTRACTOR	---	HEIGHT AFF AT WHICH CENTER OF DEVICE IS TO BE MOUNTED.
LTS	LIGHTS		

GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC FOLLOWED BY THE STATE, ALL LOCAL CODES, AND ALL REQUIREMENTS OF THE AHJ.
- ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO UL AND NEMA STANDARDS.
- ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE EC. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- EC SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
- EC SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.
- A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- ALL CUTTING AND PATCHING OF WALLS, FLOORS, AND ROOFS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE EC.
- CONDUCTORS SHALL BE COPPER, RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE #14 AWG UNO ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID. BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN OR THWN AS REQ'D, OR NM, MC, OR AC CABLE WHERE PERMITTED BY NEC.
- ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, EMT, RNC, FMT, OR LFNC. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. MINIMUM CONDUIT SIZE TO BE 1/2" TYPE NM, MC AND AC CABLE MAY BE USED WHERE PERMISSIBLE BY NEC EXCEPT FOR BRANCH CIRCUIT HOMERUNS FOR EXTERIOR EQUIPMENT. BRANCH CIRCUIT HOMERUNS ON THE EXTERIOR OF THE BUILDING SHALL BE NO LESS THAN EMT. PROVIDE FLEXIBLE CONDUIT TO VIBRATING EQUIPMENT AND LIGHT FIXTURES (MAX 8').
- PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND.
- FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSMANN OR EQUAL, UNLESS NOTED OTHERWISE.
- ALL TERMINALS/LUGS SHALL BE 60/75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC FOR DEVICES OR EQUIPMENT LOCATED IN THE ATTIC SHALL BE 90° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
- VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
- EC TO VERIFY DEVICE PLATE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO PURCHASE.
- THE EC SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.).
- WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GC SHALL BE MAINTAINED TO ENSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED UL OR EQUIVALENT ASSEMBLIES.
- IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY UL. COORDINATE CLOSELY WITH THE GC TO ENSURE THAT THE INTEGRITY OF THE UL RATING IS MAINTAINED.
- THE CONTRACTOR MAY COMBINE CIRCUITS AS FOLLOWS; BRANCH CIRCUITS MAY BE COMBINED IN A COMMON CONDUIT NOT TO EXCEED NEC REGULATIONS. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO THE PANEL.
- RECEPTACLES AND LIGHTING SWITCHES MAY BE RESIDENTIAL GRADE EQUAL TO T&S OR LEVITON. NO STAB-IN OR PUSH-IN CONNECTIONS MAY BE USED FOR ANY DEVICE, APPLIANCE, OR EQUIPMENT, INCLUDING RECEPTACLES AND LIGHT SWITCHES. ALL TRAVELERS MUST BE PIG-TAILED.
- ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
- THE EC SHALL BE RESPONSIBLE FOR INSTALLING ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. IN ACCORDANCE WITH LOCAL SEISMIC CODE REQUIREMENTS. PROVIDE SEISMIC RESTRAINTS, ACCESSORIES AND INSTALLATION DETAIL AS REQUIRED.
- 20A BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

VOLTS	DISTANCE	FIRST DEVICE	REMAINDER OF CIRCUIT
120/240	0'-30"	#12	#12
	51'-100"	#10	#12
	101'-150"	#8	#10

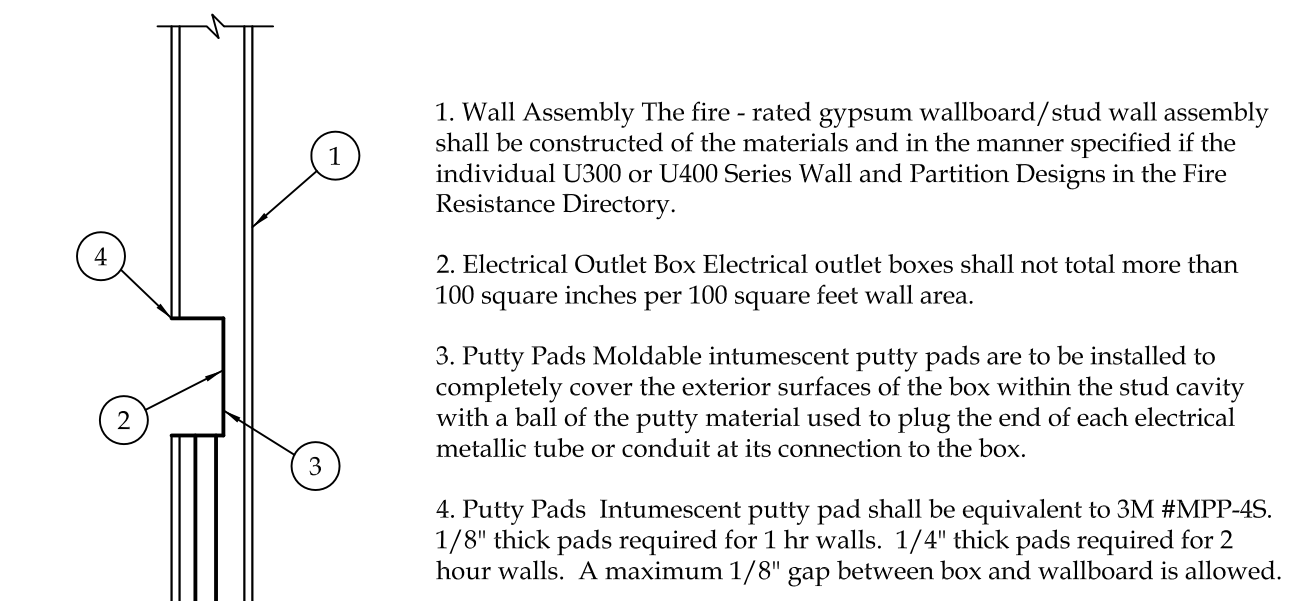


GROUNDING DETAIL

NOTES:
 1. GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250. ALL GROUNDING ELECTRODE CONDUCTORS SIZED AS INDICATED ON POWER RISER DIAGRAM. ALL METHODS OF CREATING THE GROUNDING SYSTEM MAY NOT BE REQUIRED OR AVAILABLE.

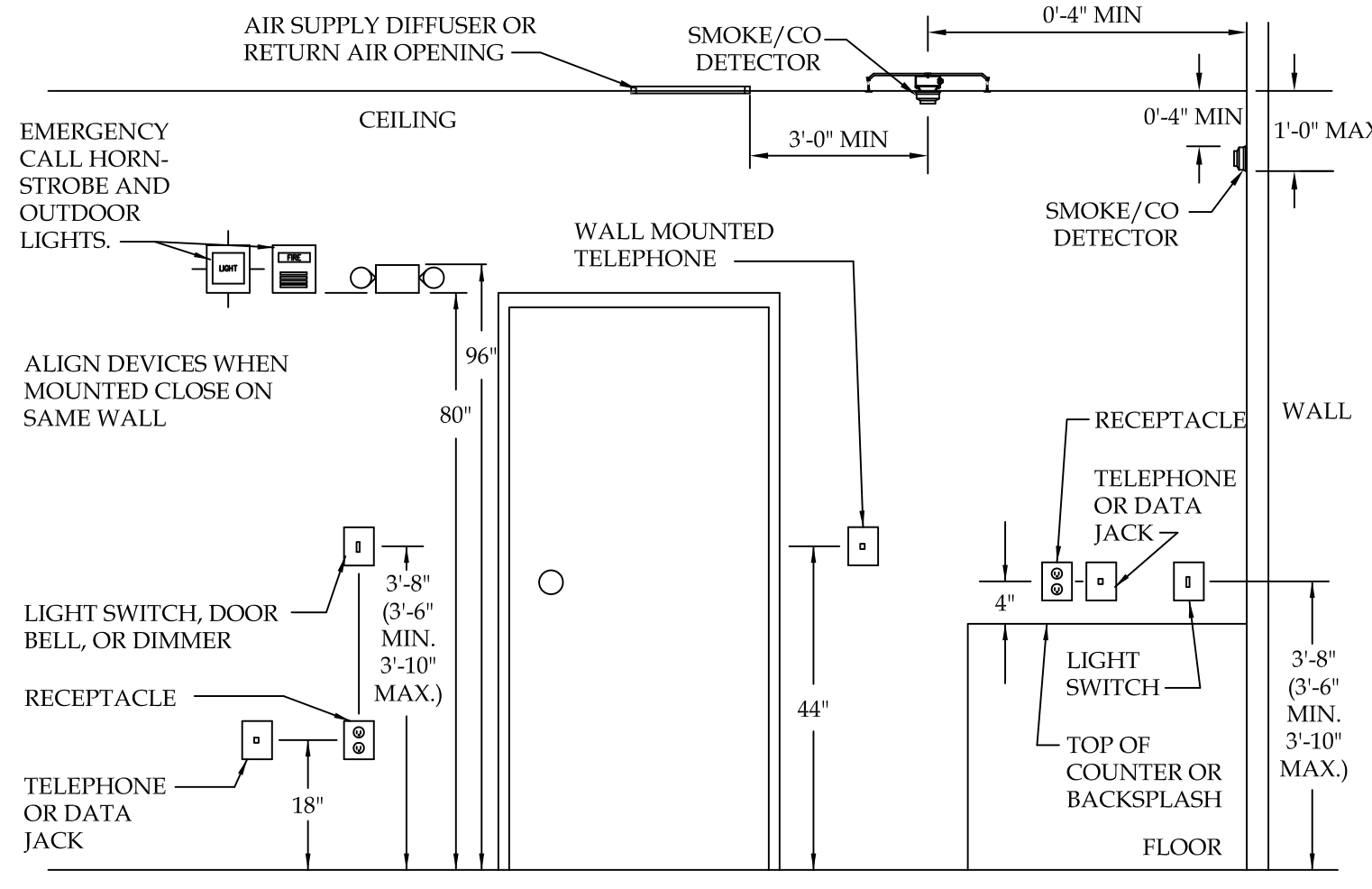
ELECTRICAL SYMBOL LEGEND

- CIRCUIT CONDUCTORS CONCEALED IN WALL OR ABOVE CEILING.
- CIRCUIT CONDUCTORS CONCEALED BELOW SLAB.
- ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
- JUNCTION BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
- LOCATION FOR HVAC ZONE CONTROL PANEL, MOUNT AT HEIGHT INDICATED ON DRAWINGS. EC MUST ALSO WIRE TO (2) ZONE DAMPER TRANSFORMERS (BY MC) IN ATTIC. COORDINATE WITH MC.
- CALL SYSTEM PULL STATION, MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
- LOCATION FOR LOW VOLTAGE TRANSFORMER SERVING CALL SYSTEM PULL STATIONS. MOUNT AT HEIGHT INDICATED.
- DOORBELL BUTTON OR DOORBELL SIGNAL/TRANSFORMER OR LIGHTED DOORBELL SIGNAL/TRANSFORMER IN TYPE 'A' UNITS. CONNECT TO NEAREST LIGHTING CIRCUIT. MOUNT AT HEIGHT INDICATED ON DRAWINGS.
- ASTRONOMICAL TIMELOCK WITH 10HR BATTERY BACKUP.
- LIGHTING CONTACTOR.
- SINGLE POLE SWITCH, 15A, 120 VOLT, 4" AFF TO CENTER.
 "3" INDICATES 3-WAY SWITCH.
 "4" INDICATES 4-WAY SWITCH.
 "D" INDICATES DIMMER SWITCH OF TYPE TO SUIT LOAD.
 "M" INDICATES MOTOR RATED TOGGLE SWITCH, VOLTAGE AND AMPS TO SUIT LOAD.
 "O" INDICATES ULTRASONIC OCCUPANCY SENSOR, SET FOR USE AS 'AUTO ON' OPERATION EQUAL TO UW-100 BY WATSTOPPER.
 "H" INDICATES TO MOUNT SWITCH HORIZONTALLY.
- INDICATES A 2 SWITCH BANK.
- DUPLEX RECEPTACLE, 15 AMP, 120 VOLT, 18" AFF TO CENTER, UNO. SINGLE RECEPTACLE BRANCH CIRCUITS SHALL BE 20 AMP. RECEPTACLES IN APARTMENTS SHALL BE TAMPERPROOF TO COMPLY WITH NEC.
 "GFI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE.
 "WIP" INDICATES WEATHERPROOF.
 "H" INDICATES TO MOUNT RECEPTACLE HORIZONTALLY.
- SIMPLEX RECEPTACLE, AS ABOVE, 18" AFF, UNO.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 4" ABOVE COUNTER TOP WHERE THERE IS NO BACKSPASH, OR 4" ABOVE BACKSPASH, AS APPROPRIATE, OR AT HEIGHT INDICATED, WITH GFI PROTECTION.
- 240V RECEPTACLE, SEE PLANS FOR AMPERAGE RATING (NEMA CONFIGURATION).
- TELEPHONE/DATA OUTLET LOCATION, 18" AFF TO CENTER, UNO, OR WHEN LOCATED IN KITCHENS, 4" ABOVE COUNTER TOP OR 4" ABOVE BACKSPASH. PROVIDE (2) CAT 6 CABLES RAN BACK TO PHONE/DATA DEMARC (UNITS). PROVIDE 6' OF LENGTH AT LOCATION OF DEMARC. TAG CABLE WITH APT # AND ROOM ON EACH CABLE VISIBLE BELOW CEILING OR AT BOARD/DEMARC.
- TELEPHONE OUTLET LOCATION, 18" AFF TO CENTER, UNO. PROVIDE CAT 6 CABLE RAN BACK TO PHONE DEMARC (UNITS). PROVIDE 6' OF LENGTH AT LOCATION OF DEMARC. TAG CABLE WITH APT # AND ROOM ON EACH CABLE VISIBLE BELOW CEILING OR AT DEMARC.
- CABLE TV/SATELLITE OUTLET LOCATION, UNO. PROVIDE RG6 COAXIAL CABLE RAN BACK TO CABLE DEMARC (UNITS). PROVIDE 6' OF LENGTH AT LOCATION OF DEMARC. TAG CABLE WITH APT # AND ROOM ON EACH CABLE VISIBLE BELOW CEILING OR AT DEMARC.
- DATA OUTLET LOCATION, 18" AFF TO CENTER, UNO. PROVIDE CAT 6 CABLE RAN BACK TO PHONE DEMARC (UNITS). PROVIDE 6' OF LENGTH AT LOCATION OF DEMARC. TAG CABLE WITH APT # AND ROOM ON EACH CABLE VISIBLE BELOW CEILING OR AT DEMARC.
- HEAVY DUTY FUSIBLE/NO-FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3R ENCLOSURE WITH WEATHERPROOF COVER FOR ALL SWITCHES LOCATED OUTSIDE.
 "FPN" INDICATES FUSE PER EQUIPMENT NAMEPLATE.
 "NF" INDICATES NON-FUSED.
 "HVAC" INDICATES HVAC PULL-OUT STYLE.
- 240/120V/1Ø PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
- FAN WITH LIGHT, FAN PROVIDED AND INSTALLED BY MC, LIGHT PROVIDED AND INSTALLED BY EC. PROVIDE DISCONNECTING MEANS AS REQUIRED. # INDICATES WHICH FAN. SEE SHEET M0.01 FOR MORE DETAILS.
- METER BASE FOR APARTMENT BUILDINGS. DASHED METER ASSEMBLY SHOWS PREFERRED LOCATION, MORE THAN ONE LOCATION IS SHOWN FOR EACH BUILDING, ACTUAL LOCATION BASED ON SITE ARRANGEMENT.
- CEILING MOUNTED HARD WIRED SMOKE DETECTOR WITH BATTERY BACKUP FOR THE APARTMENTS. 2 OR MORE DETECTORS SHALL BE INTERLOCKED SO THAT IF ONE DETECTOR IS SET OFF, ALL DETECTORS GO INTO ALARM (MULTI-STATION).
- CEILING MOUNTED HARD WIRED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR WITH BATTERY BACKUP FOR THE APARTMENTS. MUST BE INTERLOCKED WITH THE REST OF THE UNITS DETECTORS (MULTI-STATION).
- CEILING MOUNTED HARD WIRED SMOKE DETECTOR WITH BATTERY BACKUP WITH STROBE TYPE FOR SIGHT AND HEARING IMPAIRED APARTMENTS ONLY, WITH CANDELA RATING AS SPECIFIED ON PLANS. 2 OR MORE DETECTORS SHALL BE INTERLOCKED SO THAT IF ONE DETECTOR IS SET OFF, ALL DETECTORS GO INTO ALARM (MULTI-STATION). "SC" REPRESENTS COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR.
- CALL SYSTEM ALARM INDICATING DEVICE, MINI HORN/STROBE, UL WET LISTED, 177cd CANDELA RATED.
- CELLULAR COMMUNICATOR LOCATION WITH GSM SIGNALING TECHNOLOGY AND CONTACT ID FORMAT. CELLULAR SYSTEM MUST BE OPERATIONAL TO PROVIDE DIAL OUT ACCESS FOR FACP.
- FIRE ALARM CONTROL PANEL, SURFACE MOUNTED, 5'-6" AFF TO CENTERLINE.
- FIRE ALARM SYSTEM ADDRESSABLE CEILING/WALL MOUNTED SMOKE DETECTOR.
- SPRINKLER OR BACKFLOW PREVENTER WATERFLOW SWITCH.
- SPRINKLER OR BACKFLOW PREVENTER TAMPER SWITCH.
- SPRINKLER OR BACKFLOW PREVENTER TEMPERATURE SENSOR.



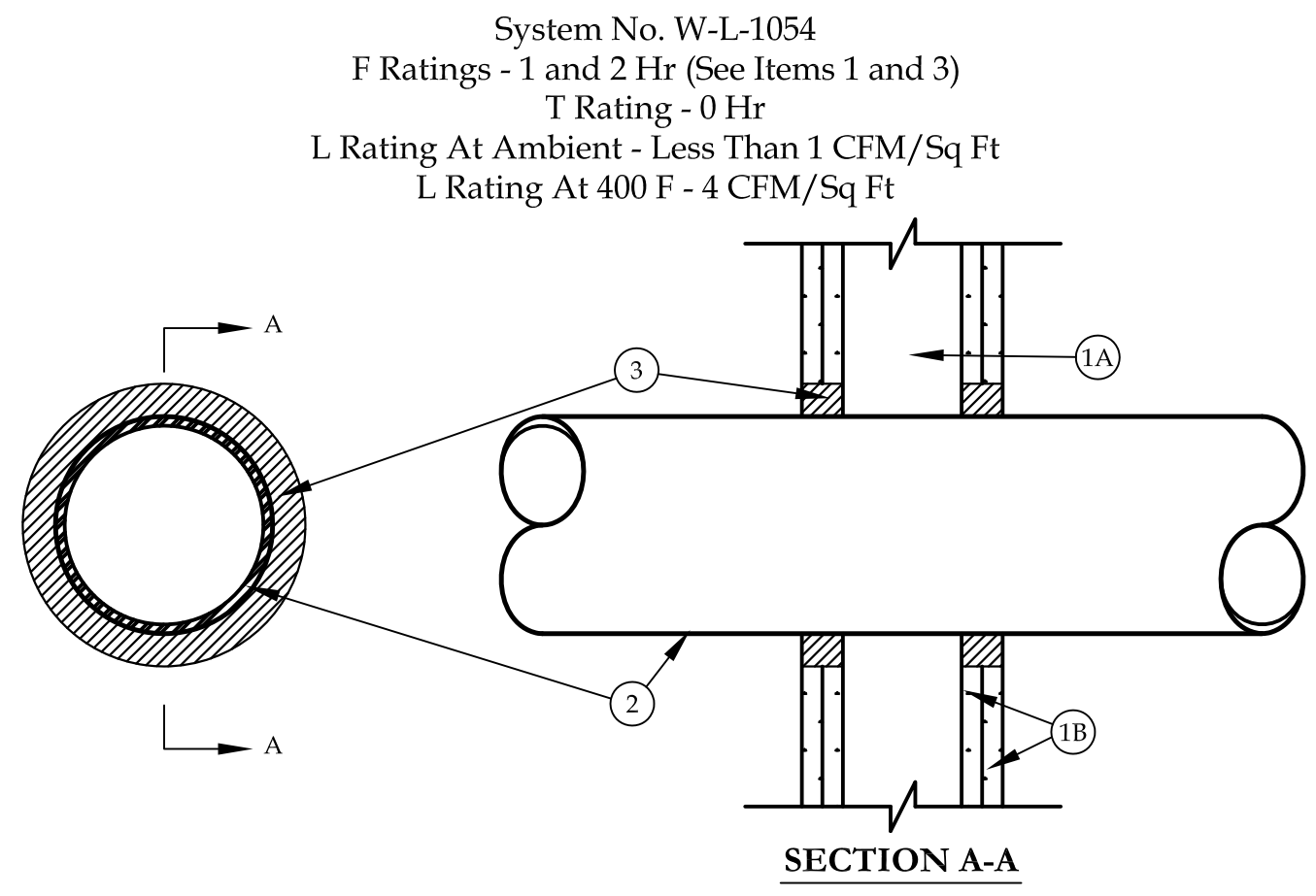
ELECTRICAL BOX DETAIL

NOTE:
 THIS DETAIL APPLIES TO 1 AND 2 HOUR WALL ASSEMBLIES WITH 4"x4" FLUSH ELECTRICAL BOXES ON OPPOSITE SIDES OF WALLS THAT HAVE LESS THAN 24" SEPARATION BETWEEN THEM AND TO ALL BOXES IN STAGGERED STUD WALLS. BOXES NOT PERMITTED BACK-TO-BACK.



DEVICE MOUNTING HEIGHTS

NOTES:
 1. ALIGN ELECTRICAL LIGHTS, OR HORN/STROBE DEVICES WITHIN A MOUNTING RANGE OF A MAX. OF 96" AFF TO TOP OF DEVICE TO 80" AFF TO BOTTOM. MOUNT AS HIGH AS POSSIBLE WITHIN RANGE, BUT AT LEAST 6" BELOW CLG.
 2. FOR RECEPTACLES MOUNTED ABOVE A COUNTERTOP WITH A BREAKFAST BAR ABOVE THE COUNTERTOP, ROTATE RECEPTACLES HORIZONTALLY IF THERE IS NOT ENOUGH SPACE BETWEEN COUNTERTOP AND BREAKFAST BAR FOR A VERTICAL INSTALLATION.

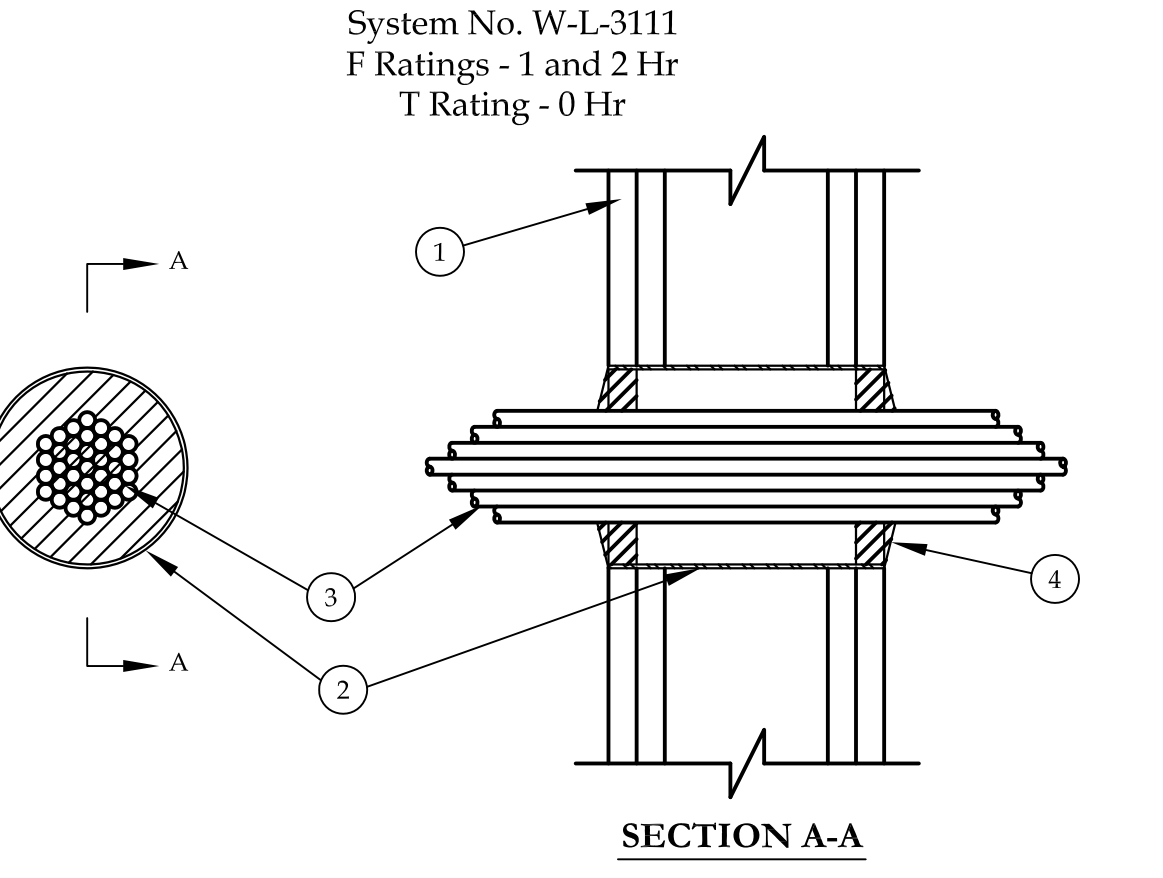


UL PENETRATION DETAIL

1. Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam. of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam. of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 B. Gypsum Board* 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diam. of opening is 32-1/4 in. for steel stud walls. Max. diam. of opening is 14-1/2 in. for wood stud walls.
 The F Rating of the firestop system is equal to the fire rating of the wall assembly.

2. Through-Penetrants One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. An annular space of min 0 in. to max 2-1/4 in. is required within firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 A. Steel Pipe Nom. 30 in. diam. (or smaller) schedule 10 (or heavier) steel pipe.
 B. Iron Pipe Nom. 30 in. diam. (or smaller) cast or ductile iron pipe.
 C. Conduit Nom. 4 in. diam. (or smaller) steel electrical metallic tubing or 6 in. diam. steel conduit.
 D. Copper Tubing Nom. 6 in. diam. (or smaller) Type L (or heavier) copper tubing.
 E. Copper Pipe Nom. 6 in. diam. (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* Sealant Min 5/8 in. or 1-1/4 in. thickness of fill material applied within annulus flush with both surfaces of wall. Flush with both surfaces of wall for 1 or 2 hr walls, respectively. At the point contact location between the pipe and wall, a min 1/2 in. diam. bead of fill material shall be applied at the pipe covering/wall interface on both surfaces of wall.
 *HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - FS-One Sealant
 *Bearing the UL Classification Marking



UL PENETRATION DETAIL

1. Wall Assembly The fire - rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified if the individual U300 or U400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:
 A. Studs Wall framing shall consist of either wood studs or channel shaped steel studs. Wood studs to consist of 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide, fabricated from min 25 MSG galvanized steel, spaced max 24 in. OC.
 B. Gypsum Board* 5/8 in. 4 ft wide with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 4 in.
 C. Metallic Sleeve - Optional the nominal 4 in. diam steel electrical metallic tubing (EMT) or Schedule 5 steel pipe friction fit into wall assembly and installed flush with wall surfaces.
 3. Cables Aggregate cross - sectional area of cables in cable tray to be max 25 percent of the cross - sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 1/8 in. to max 3/4 in. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:
 A. 6 pair - No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and PVC jacket.
 B. 24 fiber optic cable with polyvinyl chloride (PVC) outer and subunit jacket.
 C. Type RGU/59 coaxial cable with polyethylene (PE) insulation and polyvinyl (PVC) jacket.
 D. The 2/C No. 10 AWG cable with ground with polyvinyl (PVC) insulation and jacket.
 E. 3/C No. 12 AWG cable with polyvinyl chloride (PVC) insulation in a nominal 1/2 in. flexible metal conduit.

4. Fill, Void or Cavity Material* Putty - Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. Fill material to be forced into interstices of cable bundle to the max extent possible on both surfaces of wall.
 Additional fill material to be installed such that a min 1/4 in. crown is formed around the cable bundle and lapped over the steel sleeve.
 *HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CP618 Firestop Putty Stick
 *Bearing the UL Classification Marking

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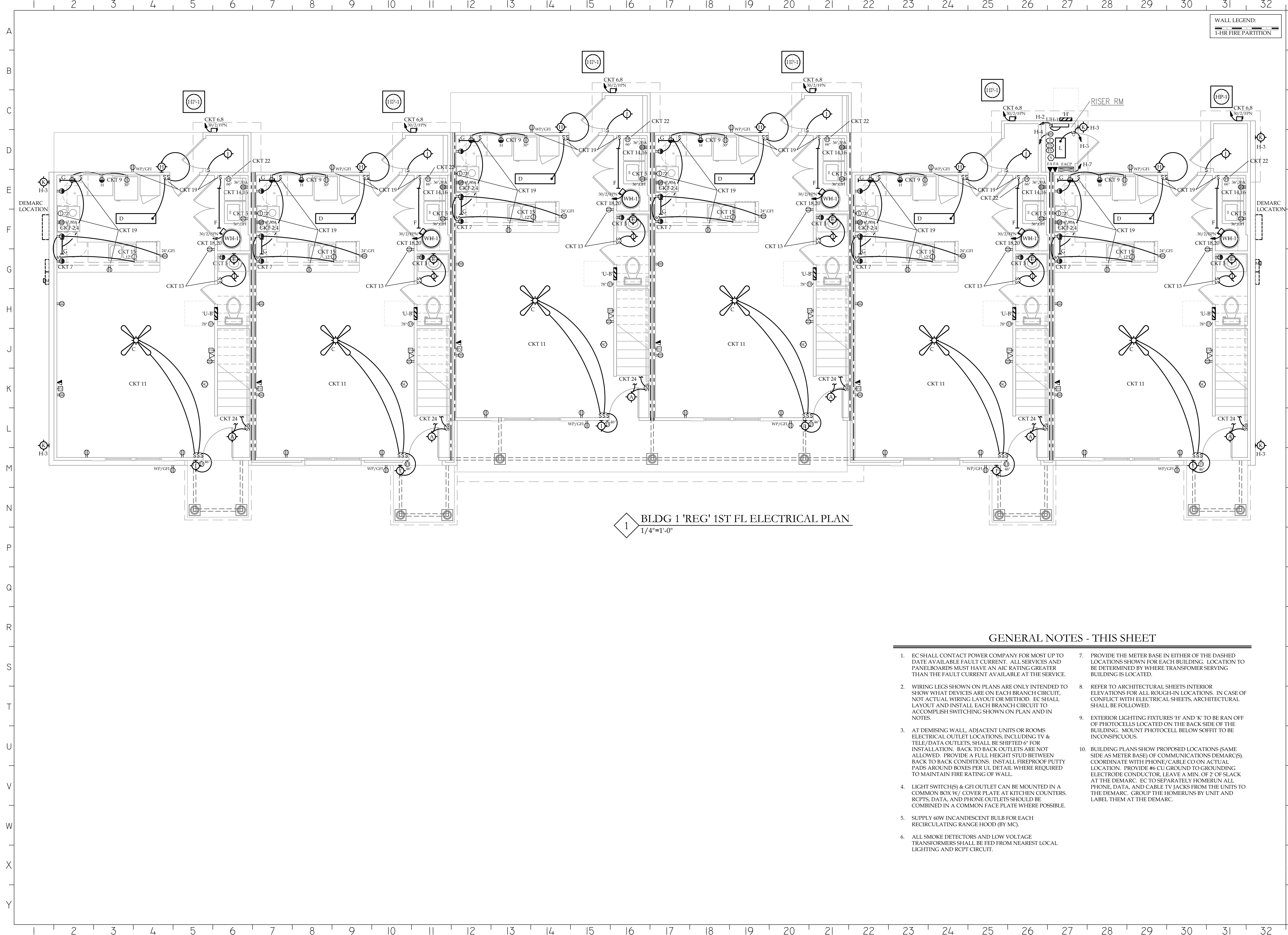
Meredith Square Phase 3
 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-19005
 SEE SHEET #
 DWG NO.: MRD
 DRAWN BY: MRD
 DATE: 10.25.2019
 PERMIT SET
 ISSUE:

REVISIONS

Electrical Legend & Details

E0.01

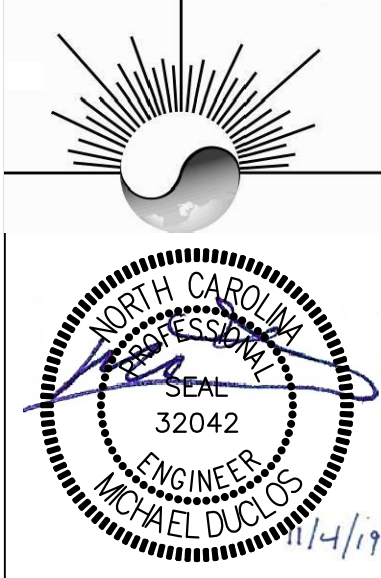


1 BLDG 1 'REG' 1ST FL ELECTRICAL PLAN
1/4"=1'-0"

GENERAL NOTES - THIS SHEET

- EC SHALL CONTACT POWER COMPANY FOR MOST UP TO DATE AVAILABLE FAULT CURRENT. ALL SERVICES AND PANELBOARDS MUST HAVE AN AIC RATING GREATER THAN THE FAULT CURRENT AVAILABLE AT THE SERVICE.
- WIRING LEGS SHOWN ON PLANS ARE ONLY INTENDED TO SHOW WHAT DEVICES ARE ON EACH BRANCH CIRCUIT, NOT ACTUAL WIRING LAYOUT OR METHOD. EC SHALL LAYOUT AND INSTALL EACH BRANCH CIRCUIT TO ACCOMPLISH SWITCHING SHOWN ON PLAN AND IN NOTES.
- AT DEMISING WALL, ADJACENT UNITS OR ROOMS ELECTRICAL OUTLET LOCATIONS, INCLUDING TV & TELE/DATA OUTLETS, SHALL BE SHIFTED 6" FOR INSTALLATION. BACK TO BACK OUTLETS ARE NOT ALLOWED. PROVIDE A FULL HEIGHT STUD BETWEEN BACK TO BACK CONDITIONS. INSTALL FIREPROOF PUTTY PADS AROUND BOXES PER UL DETAIL WHERE REQUIRED TO MAINTAIN FIRE RATING OF WALL.
- LIGHT SWITCH(S) & GFI OUTLET CAN BE MOUNTED IN A COMMON BOX W/ COVER PLATE AT KITCHEN COUNTERS. RCPTS, DATA, AND PHONE OUTLETS SHOULD BE COMBINED IN A COMMON FACE PLATE WHERE POSSIBLE.
- SUPPLY 60W INCANDESCENT BULB FOR EACH RECIRCULATING RANGE HOOD (BY MC).
- ALL SMOKE DETECTORS AND LOW VOLTAGE TRANSFORMERS SHALL BE FED FROM NEAREST LOCAL LIGHTING AND RCPT CIRCUIT.
- PROVIDE THE METER BASE IN EITHER OF THE DASHED LOCATIONS SHOWN FOR EACH BUILDING. LOCATION TO BE DETERMINED BY WHERE TRANSFORMER SERVING BUILDING IS LOCATED.
- REFER TO ARCHITECTURAL SHEETS INTERIOR ELEVATIONS FOR ALL ROUGH-IN LOCATIONS. IN CASE OF CONFLICT WITH ELECTRICAL SHEETS, ARCHITECTURAL SHALL BE FOLLOWED.
- EXTERIOR LIGHTING FIXTURES 'H' AND 'K' TO BE RAN OFF OF PHOTOCELLS LOCATED ON THE BACK SIDE OF THE BUILDING. MOUNT PHOTOCELL BELOW SOFFIT TO BE INCONSPICUOUS.
- BUILDING PLANS SHOW PROPOSED LOCATIONS (SAME SIDE AS METER BASE) OF COMMUNICATIONS DEMARCS. COORDINATE WITH PHONE/CABLE CO ON ACTUAL LOCATION. PROVIDE #6 CU GROUND TO GROUNDING ELECTRODE CONDUCTOR, LEAVE A MIN. OF 2' OF SLACK AT THE DEMARC. EC TO SEPARATELY HOMERUN ALL PHONE, DATA, AND CABLE TV JACKS FROM THE UNITS TO THE DEMARC. GROUP THE HOMERUNS BY UNIT AND LABEL THEM AT THE DEMARC.

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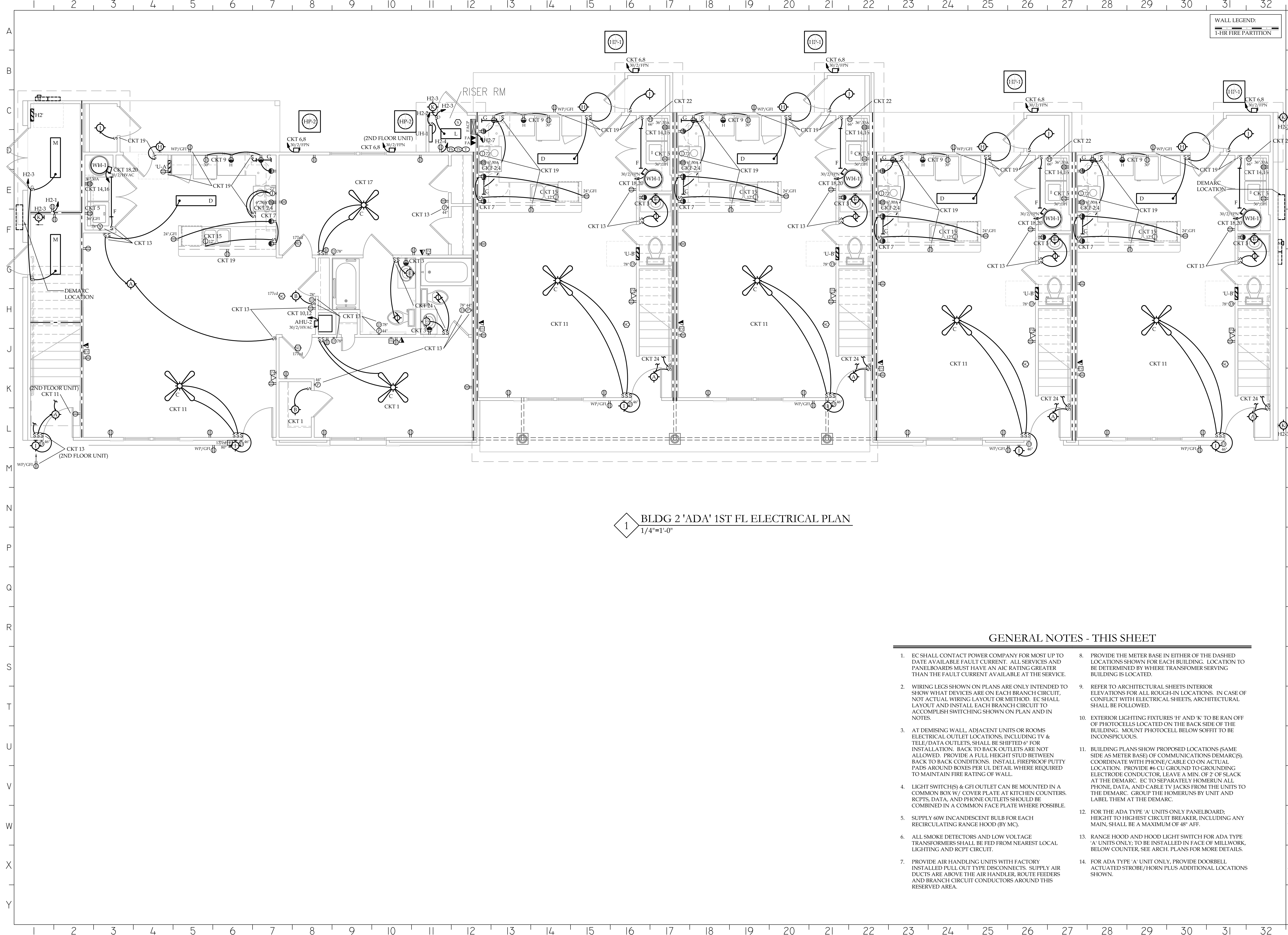
Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-19005
DWG NO.: SEE SHEET #
DRAWN BY: MRD
DATE: 10.25.2019
ISSUE: PERMIT SET

REVISIONS

Electrical
Bldg 1 Reg
Plan

E1.01



1 BLDG 2 'ADA' 1ST FL ELECTRICAL PLAN
1/4"=1'-0"

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- LIGHT SWITCH(S) & GFI OUTLET CAN BE MOUNTED IN A COMMON BOX W/ COVER PLATE AT KITCHEN COUNTERS. RCPTS, DATA, AND PHONE OUTLETS SHOULD BE COMBINED IN A COMMON FACE PLATE WHERE POSSIBLE.
- SUPPLY 60W INCANDESCENT BULB FOR EACH RECIRCULATING RANGE HOOD (BY MC).
- ALL SMOKE DETECTORS AND LOW VOLTAGE TRANSFORMERS SHALL BE FED FROM NEAREST LOCAL LIGHTING AND RCPT CIRCUIT.
- PROVIDE AIR HANDLING UNITS WITH FACTORY INSTALLED PULL OUT TYPE DISCONNECTS. SUPPLY AIR DUCTS ARE ABOVE THE AIR HANDLER, ROUTE FEEDERS AND BRANCH CIRCUIT CONDUCTORS AROUND THIS RESERVED AREA.
- PROVIDE THE METER BASE IN EITHER OF THE DASHED LOCATIONS SHOWN FOR EACH BUILDING. LOCATION TO BE DETERMINED BY WHERE TRANSFORMER SERVING BUILDING IS LOCATED.
- REFER TO ARCHITECTURAL SHEETS INTERIOR ELEVATIONS FOR ALL ROUGH-IN LOCATIONS. IN CASE OF CONFLICT WITH ELECTRICAL SHEETS, ARCHITECTURAL SHALL BE FOLLOWED.
- EXTERIOR LIGHTING FIXTURES 'H' AND 'K' TO BE RAN OFF OF PHOTOCELLS LOCATED ON THE BACK SIDE OF THE BUILDING. MOUNT PHOTOCELL BELOW SOFFIT TO BE INCONSPICUOUS.
- BUILDING PLANS SHOW PROPOSED LOCATIONS (SAME SIDE AS METER BASE) OF COMMUNICATIONS DEMARC(S). COORDINATE WITH PHONE/CABLE CO ON ACTUAL LOCATION. PROVIDE #6 CU GROUND TO GROUNDING ELECTRODE CONDUCTOR, LEAVE A MIN. OF 2' OF SLACK AT THE DEMARC. EC TO SEPARATELY HOMERUN ALL PHONE, DATA, AND CABLE TV JACKS FROM THE UNITS TO THE DEMARC. GROUP THE HOMERUNS BY UNIT AND LABEL THEM AT THE DEMARC.
- FOR THE ADA TYPE 'A' UNITS ONLY PANELBOARD; HEIGHT TO HIGHEST CIRCUIT BREAKER, INCLUDING ANY MAIN, SHALL BE A MAXIMUM OF 48" AFF.
- RANGE HOOD AND HOOD LIGHT SWITCH FOR ADA TYPE 'A' UNITS ONLY; TO BE INSTALLED IN FACE OF MILLWORK, BELOW COUNTER, SEE ARCH. PLANS FOR MORE DETAILS.
- FOR ADA TYPE 'A' UNIT ONLY, PROVIDE DOORBELL ACTUATED STROBE/HORN PLUS ADDITIONAL LOCATIONS SHOWN.

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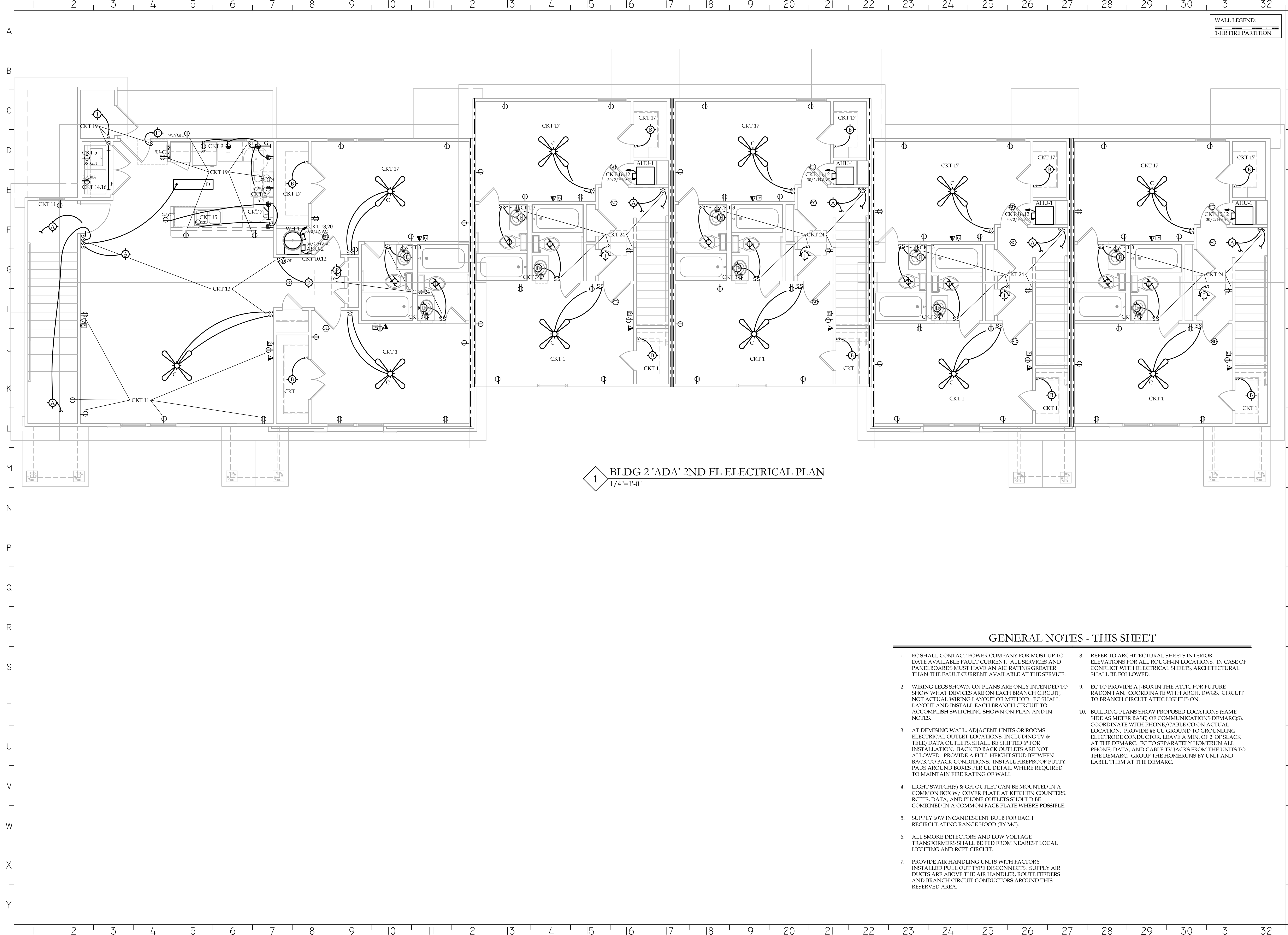
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 NO. 2511 FRENCH CREEK

PROJECT NO.: 19M01-19005
 SEE SHEET # MRD
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 ISSUE: PERMIT SET

Meredith Square Phase 3 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

REVISIONS

Electrical Bldg 2 ADA Plan
 E1.03



1 BLDG 2 'ADA' 2ND FL ELECTRICAL PLAN
1/4"=1'-0"

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- EC TO PROVIDE A J-BOX IN THE ATTIC FOR FUTURE RADON FAN. COORDINATE WITH ARCH. DWGS. CIRCUIT TO BRANCH CIRCUIT ATTIC LIGHT IS ON.
- BUILDING PLANS SHOW PROPOSED LOCATIONS (SAME SIDE AS METER BASE) OF COMMUNICATIONS DEMARC(S). COORDINATE WITH PHONE/CABLE CO ON ACTUAL LOCATION. PROVIDE #6 CU GROUND TO GROUNDING ELECTRODE CONDUCTOR, LEAVE A MIN. OF 2' OF SLACK AT THE DEMARC. EC TO SEPARATELY HOMERUN ALL PHONE, DATA, AND CABLE TV JACKS FROM THE UNITS TO THE DEMARC. GROUP THE HOMERUNS BY UNIT AND LABEL THEM AT THE DEMARC.

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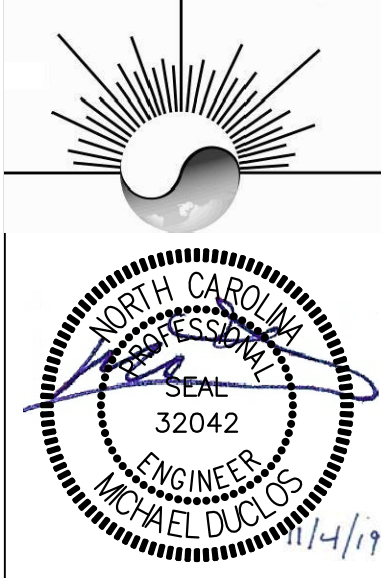
Electrical
Bldg 2 ADA
Plan

E1.04

LIGHTING FIXTURE SCHEDULE										
MARK	MANUF.	CATALOG NUMBER	LAMP DATA		VOLTS	BALLAST DATA		INPUT WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE		NO.	TYPE			
A	ROYAL PACIFIC	4346-15	1	3000 LUMEN LED 830	120	1	DIMMABLE	30	SURFACE	CLOSE TO CEILING 15" BRUSHED NICKEL LED FIXTURE WITH ALABASTER GLASS BOWL. ENERGY STAR LABELED.
B	ROYAL PACIFIC	4346-11	1	1500 LUMEN LED 830	120	1	DIMMABLE	17	SURFACE	CLOSE TO CEILING 11" BRUSHED NICKEL LED FIXTURE WITH ALABASTER GLASS BOWL. ENERGY STAR LABELED.
C	ROYAL PACIFIC	1057-WW-WW	3	CF13W GU24 830	120	3	SELF BALLAST	39	SUSPENDED	WHITE 5 BLADE CEILING FAN W/ ALABASTER GLASS BOWL. FLUORESCENT LIGHT KIT.
D	NUVO	60-903R	3	F32 T8 830	120	1	INSTANT ELECTRONIC <20% THD	96	SURFACE	GENERAL DUTY 4' x 1' NARROW LOW PROFILE WHITE FLUORESCENT FIXTURE WITH ACRYLIC HEMISPHERE DIFFUSER AND BRUSHED NICKEL TRIM.
E	ROYAL PACIFIC	4901CH-G313-ES	3	CF13W GU24 827	120	3	SELF BALLAST	39	WALL	THREE LIGHT CHROME BATH WALL FIXTURE W/ ALABASTER SHADES. UL DAMP LISTED. MOUNT FACING DOWN. ENERGY STAR LABELED.
F	ROYAL PACIFIC	4312WH	1	1600 LUMEN LED 840	120	1	NON-DIMMABLE	20	SURFACE	GENERAL DUTY 4' LOW PROFILE STRIP WHITE LED FIXTURE WITH OPAL ACRYLIC DIFFUSER. ENERGY STAR LABELED. MOUNT ON WALL ABOVE DOORS.
G	ROYAL PACIFIC	8962	1	600 LUMEN LED 930	120	1	TRIAC DIMMABLE	10	UNDER CABINET	GENERAL DUTY 18" UNDERCABINET LED FIXTURE WITH WHITE ACRYLIC LENS. DIRECT CONNECTION. ENERGY STAR LABELED.
H	NUVO	60-638	1	EDISON A19 MED BASE	120	-	-	60	WALL MOUNT	SURFACE MOUNTED BLACK CLEAR GLASS EXTERIOR FIXTURE. FIELD PROVIDE PHOTOCELL AHEAD OF SWITCH. UL WET LISTED. PROVIDE LED LAMP. MOUNT PC AT BACK.
I	NUVO	60-638	1	EDISON A19 MED BASE	120	-	-	60	WALL MOUNT	SURFACE MOUNTED BLACK CLEAR GLASS EXTERIOR FIXTURE. UL WET LISTED. PROVIDE LED LAMP.
J	N/A	N/A	1	EDISON A19 MED BASE	120	-	-	60	SURFACE	INCANDESCENT PORCELAIN KEYLESS FIXTURE. UL DAMP LISTED. PROVIDE LED LAMP.
K	N/A	N/A	2	LED 15W MAX EACH 3000°K	120	-	-	30W MAX.	WALL	DOUBLE LED PAR FLOODLIGHT WITH MOTION SENSOR. ALUMINUM HOUSING, UL WET LISTED. FIELD PROVIDE PHOTOCELL AHEAD OF MOTION SENSOR. COLOR PER OWNER.
L	ROYAL PACIFIC	4115WH-EM	1	2200 LUMEN LED 840	120	1	NON-DIMMABLE	20	SURFACE	GENERAL DUTY 2' ENCLOSED STAIRWELL WHITE LED FIXTURE WITH ACRYLIC LENS. PROVIDE 90 MIN. BATTERY BACKUP OPTION.
M	ROYAL PACIFIC	4116WH	1	3,500 LUMEN LED 840	120	1	NON-DIMMABLE	35	SURFACE	GENERAL DUTY 4' ENCLOSED STAIRWELL WHITE LED FIXTURE WITH ACRYLIC LENS.

- NOTES:
- CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES.
 - EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED AHEAD OF ANY SWITCHED LEG OF THE NEAREST LOCAL LIGHTING CIRCUIT, UON. EXTERIOR EMERGENCY FIXTURES WITH 2 LAMPS MUST BE SETUP TO HAVE BOTH LAMPS ON DURING EMERGENCY USE. ALL NON-EMERGENCY EXTERIOR FIXTURES (INCLUDING MOTION SENSING FIXTURES) SHALL BE CIRCUITED VIA A TIMECLOCK OR PHOTOCELL.
 - ALL EXTERIOR LAMPS/FIXTURES MUST BE RATED FOR 0°F.
 - REFER TO SHEET E0.01 FOR ADDITIONAL GENERAL NOTES AND ELECTRICAL LEGEND.
 - PROVIDE PLUG TYPE DISCONNECTS WITHIN THE FIXTURE FOR ALL LINEAR FIXTURES.
 - UNDER LAMP DATA - TYPE COLUMN, A 3 DIGIT NUMBER, IE: 835 REFERS TO THE LAMP CRI AND °K COLOR TEMPERATURE. FOR INSTANCE 835 IS SPECIFYING LAMPS WITH A MIN CRI OF 80 AND A COLOR TEMPERATURE OF 3500°K.

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 P.O. BOX 253 FRANKFORTH, NC 28734
 NC REG. TRADING OFFICE

Meredith Square Phase 3 Apartments
 BUIES CREEK, NC
 CLIENT: MEREDITH SQUARE LLC

PROJECT NO.: 19M01-18005
 SEE SHEET #
 DWG NO.: MRD
 DRAWN BY: MRD
 DATE: 10.25.2019
 ISSUE: PERMIT SET

REVISIONS

Electrical Lighting Schedule

E6.01

PANEL 'U-A'												
SERVICE ENT. RATED:		NO		STYLE:		EQUAL TO SQUARE D QO LOADCENTER						
NEMA 1		MOUNTING:		FLUSH		MIN. AIC:		22,000				
CKT	LOAD SERVED	TRIP	POLE	kVA	kVA/PHASE	A	B	kVA	POLE	TRIP	LOAD SERVED	CKT
1	BED LITS/RCPTS	15AF	1	1.44	5.44			4.00	2	40	RANGE	2
3	BATHROOM RCPTS	20	1	0.36		4.36		4.00				4
5	WASHER	20	1	1.50	2.87		1.37		2	25H	HP-2	6
7	SMALL APPLIANCE	20	1	1.50	2.87		1.37					8
9	SMALL APPLIANCE	20	1	1.50	4.34		2.84		2	30H	AHU-2	10
11	LIVING LITS/RCPTS	15AF	1	1.44	4.28		2.84					12
13	LITS/RCPTS	15AF	1	1.08	3.58		2.50		2	30	DRYER	14
15	DISHWASHER	15	1	1.20	3.70		2.50					16
17	BED LITS/RCPTS	15AF	1	1.26	3.51		2.25		2	30	WH-1	18
19	KITCHEN LITS	15AF	1	1.26	3.51		2.25					20
21				0.00					1	15	SPARE	22
23				0.00	0.72	0.72			1	15AF	BATH LITS	24
25												26
27												28
29												30
TOTALS:				19.74	19.44							
TOTAL CONNECTED KVA:				39.18				AF-INDICATES ARC FAULT BREAKER.				
TOTAL DEMAND KVA:				24.16 = 101 AMPS				H-INDICATES HACR BREAKER.				
								SWD/HID RATED FOR LITS CKTS				

PANEL 'U-B'												
SERVICE ENT. RATED:		NO		STYLE:		EQUAL TO SQUARE D HOMELINE LOADCENTER						
NEMA 1		MOUNTING:		FLUSH		MIN. AIC:		22,000				
CKT	LOAD SERVED	TRIP	POLE	kVA	kVA/PHASE	A	B	kVA	POLE	TRIP	LOAD SERVED	CKT
1	BED LITS/RCPTS	15AF	1	1.44	5.44			4.00	2	40	RANGE	2
3	BATHROOM RCPTS	20	1	0.54	4.54			4.00				4
5	WASHER	20	1	1.50	2.98		1.48		2	25H	HP-1	6
7	SMALL APPLIANCE	20	1	1.50	2.98		1.48					8
9	SMALL APPLIANCE	20	1	1.50	4.25		2.75		2	30H	AHU-1	10
11	LIVING LITS/RCPTS	15AF	1	1.44	4.19		2.75					12
13	LITS/RCPTS	15AF	1	0.72	3.22		2.50		2	30	DRYER	14
15	DISHWASHER	15	1	1.20	3.70		2.50					16
17	BED LITS/RCPTS	15AF	1	1.26	3.51		2.25		2	30	WH-1	18
19	KITCHEN LITS	15AF	1	1.44	3.69		2.25					20
21	SPARE	15	1	0.50					1	15	HVAC ZONE PANEL	22
23				0.00	1.44	1.44			1	15AF	BATH/HALL LITS	24
25												26
27												28
29												30
TOTALS:				19.90	20.54							
TOTAL CONNECTED KVA:				40.44				AF-INDICATES ARC FAULT BREAKER.				
TOTAL DEMAND KVA:				24.21 = 101 AMPS				H-INDICATES HACR BREAKER.				
								SWD/HID RATED FOR LITS CKTS				

PANEL 'U-C'												
SERVICE ENT. RATED:		NO		STYLE:		EQUAL TO SQUARE D QO LOADCENTER						
NEMA 1		MOUNTING:		FLUSH		MIN. AIC:		22,000				
CKT	LOAD SERVED	TRIP	POLE	kVA	kVA/PHASE	A	B	kVA	POLE	TRIP	LOAD SERVED	CKT
1	BED LITS/RCPTS	15AF	1	1.26	5.26			4.00	2	40	RANGE	2
3	BATHROOM RCPTS	20	1	0.36	4.36			4.00				4
5	WASHER	20	1	1.50	2.87		1.37		2	25H	HP-2	6
7	SMALL APPLIANCE	20	1	1.50	2.87		1.37					8
9	SMALL APPLIANCE	20	1	1.50	4.34		2.84		2	30H	AHU-2	10
11	LIVING LITS/RCPTS	15AF	1	1.26	4.10		2.84					12
13	LITS/RCPTS	15AF	1	1.26	3.76		2.50		2	30	DRYER	14
15	DISHWASHER	15	1	1.20	3.70		2.50					16
17	BED LITS/RCPTS	15AF	1	1.44	3.69		2.25		2	30	WH-1	18
19	KITCHEN LITS	15AF	1	1.62	3.87		2.25					20
21				0.00					1	15	SPARE	22
23				0.00	0.72	0.72			1	15AF	BATH LITS	24
25												26
27												28
29												30
TOTALS:				19.92	19.62							
TOTAL CONNECTED KVA:				39.54				AF-INDICATES ARC FAULT BREAKER.				
TOTAL DEMAND KVA:				24.16 = 101 AMPS				H-INDICATES HACR BREAKER.				
								SWD/HID RATED FOR LITS CKTS				

PANEL 'H'												
SERVICE ENT. RATED:		NO		STYLE:		EQUAL TO SQUARE D HOMELINE LOADCENTER						
NEMA 3R		MOUNTING:		SURFACE		MIN. AIC:		22,000, SEE RISER DIAGRAM				
CKT	LOAD SERVED	TRIP	POLE	kVA	kVA/PHASE	A	B	kVA	POLE	TRIP	LOAD SERVED	CKT
1				0.50				0.50	1	20	RISER RM UH-1	2
3	RISER RM/MOTION LITS	20	1	0.17	0.35	0.18		0.18	1	20	RISER RM RCPT	4
5				0.00								6
7	FACP	20L	1	0.40	0.40							8
9				0.00								10
11				0.00								12
TOTALS:				0.50	0.75							
TOTAL CONNECTED KVA:				1.25				L-INDICATES LOCK-ON DEVICE				
TOTAL DEMAND KVA:				1.74 = 7 AMPS				SWD/HID RATED FOR LITS CKTS				

PANEL 'H2'												
SERVICE ENT. RATED:		NO		STYLE:		EQUAL TO SQUARE D HOMELINE LOADCENTER						
NEMA 1		MOUNTING:		SURFACE		MIN. AIC:		22,000, SEE RISER DIAGRAM				
CKT	LOAD SERVED	TRIP	POLE	kVA	kVA/PHASE	A	B	kVA	POLE	TRIP	LOAD SERVED	CKT
1	STORAGE RCPTS	20	1	0.36	0.86			0.50	1	20	RISER RM UH-1	2
3	RISER RM/MOTION LITS	20	1	0.24	0.42	0.18		0.18	1	20	RISER RM RCPT	4
5				0.00								6
7	FMCP	20L	1	0.40	0.40							8
9				0.00								10
11				0.00								12
TOTALS:				0.86	0.82							
TOTAL CONNECTED KVA:				1.68				L-INDICATES LOCK-ON DEVICE				
TOTAL DEMAND KVA:				1.74 = 7 AMPS				SWD/HID RATED FOR LITS CKTS				

'H2' LOAD SUMMARY (PANEL 'H' SIMILAR)			
	TOTAL KVA	FACTOR	DEMAND KVA
HVAC LOAD OTHER THAN HEATING LOAD	0.00	1.00	0.00
ELECTRIC HEATING LOAD	0.50	1.00	0.50
LIGHTS	0.24	1.25	0.30
FIRST 10000 RECEPTACLES	0.54	1.00	0.54
REMAINDER OF RECEPTACLES 50%	0.00	0.50	0.00
MISCELLANEOUS	0.40	1.00	0.40
ENTIRE BUILDING SUBTOTAL	1.68		1.74
DEMAND LOAD KVA			1.74
DEMAND AMPERES 120/240/1			7
CONNECTED LOAD KVA			1.68
CONNECTED AMPERES 120/240/1			7
TOTAL AVAILABLE LOAD KVA			14.40
TOTAL AVAILABLE AMPERES 120/240/1			60

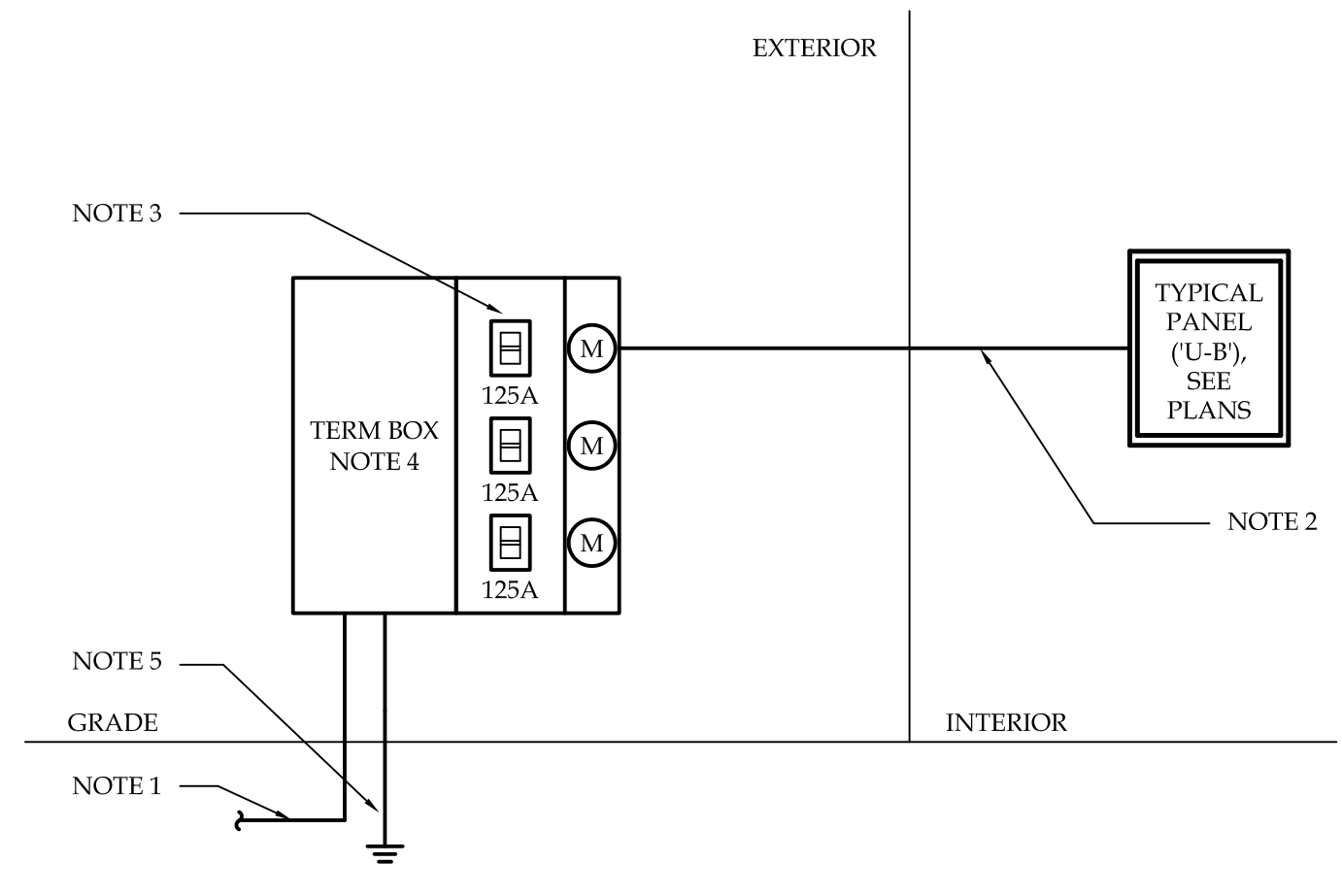
OPT. LOAD FOR SINGLE FAMILY DWELLING ADA 1ST FLOOR UNIT FLAT ('U-A')					
	kVA	QTY	FACTOR	SQFT	DEMAND KVA
LTS & RCPTS:			3	1180	3.54
SMALL APPLIANCE:	1.50	2			3.00
LAUNDRY:	1.50	1			1.50
APPLIANCES:					
1 RANGE	8.00	1			8.00
2 DRYER	5.00	1			5.00
3 DISHWASHER	1.20	1			1.20
4 WH# 1	4.50	1			4.50
FIRST 10,000VA @ 100%:	10.00		100%		10.00
REMAINING KVA @ 40%:	16.74		40%		6.70
GENERAL LOAD SUBTOTAL:					16.70
HEAT (HP W/ AUX. ELEC.)					
AHU# 2 (BLOWER ONLY)	0.85	1	100%		0.85
AHU# 2 (AUX. HEAT ONLY)	5.00	1	65%		3.25
HP# 2	3.36	1			3.36
HEAT SUBTOTAL					7.46
COOLING					
AHU# 2	0.85	1			0.85
HP# 2	3.36	1			3.36
COOLING SUBTOTAL					4.21
TOTAL KVA DEMAND LOAD:					24.16
VOLTAGE:					240
MINIMUM DEMAND AMPERES:					101

OPT. LOAD FOR SINGLE FAMILY DWELLING REGULAR UNIT TOWNHOME ('U-B')					
	kVA	QTY	FACTOR	SQFT	DEMAND KVA
LTS & RCPTS:			3	1180	3.54
SMALL APPLIANCE:	1.50	2			3.00
LAUNDRY:	1.50	1			1.50
APPLIANCES:					
1 RANGE	8.00	1			8.00
2 DRYER	5.00	1			5.00
3 DISHWASHER	1.20	1			1.20
4 WH# 1	4.50	1			4.50
FIRST 10,000VA @ 100%:	10.00		100%		10.00
REMAINING KVA @ 40%:	16.74		40%		6.70
GENERAL LOAD SUBTOTAL:					16.70
HEAT (HP W/ AUX. ELEC.)					
AHU# 1 (BLOWER ONLY)	0.63	1	100%		0.63
AHU# 1 (AUX. HEAT ONLY)	5.00	1	65%		3.25
HP# 1	3.63	1			3.63
HEAT SUBTOTAL					7.51
COOLING					
AHU# 1	0.63	1			0.63
HP# 1	3.63	1			3.63
COOLING SUBTOTAL					4.26
TOTAL KVA DEMAND LOAD:					24.21
VOLTAGE:					240
MINIMUM DEMAND AMPERES:					101

OPT. LOAD FOR SINGLE FAMILY DWELLING 2ND FLOOR UNIT FLAT ('U-C')					
	kVA	QTY	FACTOR	SQFT	DEMAND KVA
LTS & RCPTS:			3	1294	3.88
SMALL APPLIANCE:	1.50	2			3.00
LAUNDRY:	1.50	1			1.50
APPLIANCES:					
1 RANGE	8.00	1			8.00
2 DRYER	5.00	1			5.00
3 DISHWASHER	1.20	1			1.20
4 WH# 1	4.50	1			4.50
FIRST 10,000VA @ 100%:	10.00		100%		10.00
REMAINING KVA @ 40%:	17.08		40%		6.83
GENERAL LOAD SUBTOTAL:					16.83
HEAT (HP W/ AUX. ELEC.)					
AHU# 2 (BLOWER ONLY)	0.85	1	100%		0.85
AHU# 2 (AUX. HEAT ONLY)	5.00	1	65%		3.25
HP# 2	3.36	1			3.36
HEAT SUBTOTAL					7.46
COOLING					
AHU# 2	0.85	1			0.85
HP# 2	3.36	1			3.36
COOLING SUBTOTAL					4.21
TOTAL KVA DEMAND LOAD:					24.29
VOLTAGE:					240
MINIMUM DEMAND AMPERES:					101

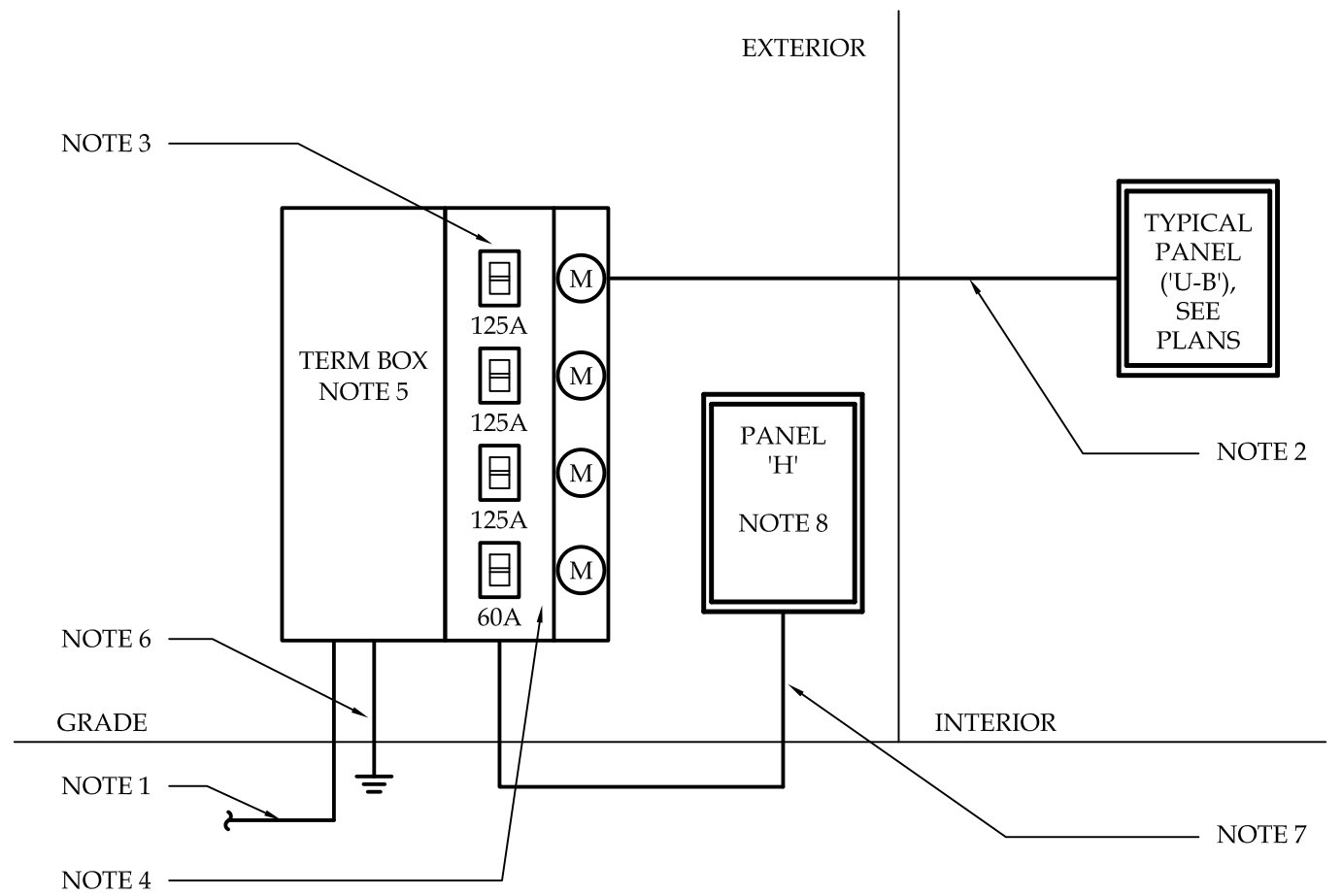
CONDUCTOR SCHEDULE REG UNIT						
DEVICE	VOLTS/PH	MCA	MOCP	COND	EG	C
HP-1	240/1	15.8	25H	(2) 10 AWG	10 AWG	3/4"
AHU-1	240/1	29.9	30H	(2) 10 AWG	10 AWG	-
DRYER	240/1	20.8	30	(2) 10 AWG	10 AWG	-
RANGE	240/1	33.3	40	(2) 8 AWG	10 AWG	-
WH-1	240/1	23.4	30	(2) 10 AWG	10 AWG	-

CONDUCTOR SCHEDULE ADA/FLATS						
DEVICE	VOLTS/PH	MCA	MOCP	COND	EG	C
HP-2	240/1	14.6	25H	(2) 10 AWG	10 AWG	3/4"
AHU-2	240/1	29.9	30H	(2) 10 AWG	10 AWG	-
DRYER	240/1	20.8	30	(2) 10 AWG	10 AWG	-
RANGE	240/1	33.3	40	(2) 8 AWG	10 AWG	-
WH-1	240/					



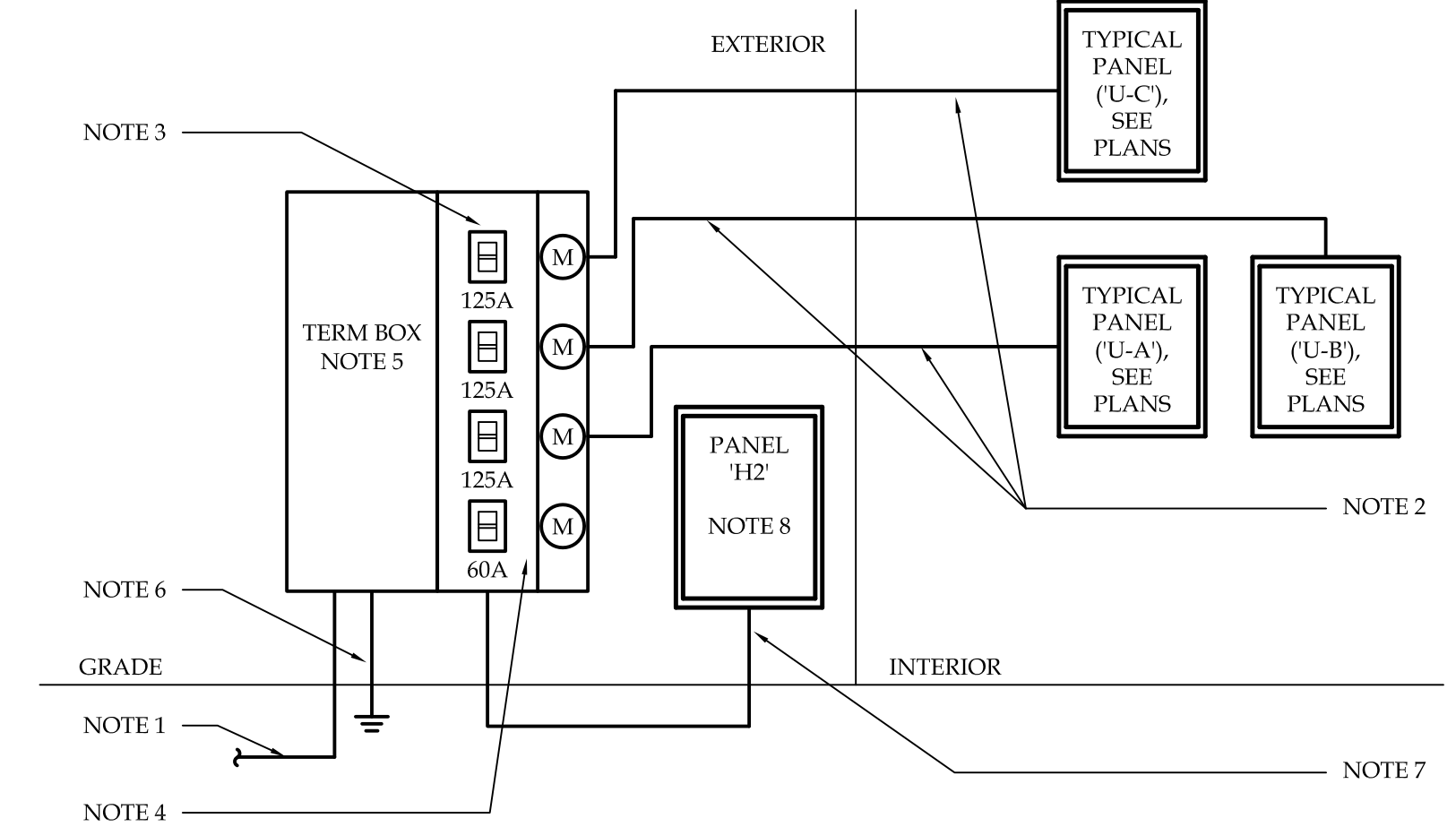
1 BUILDING '1' & '2' (3 REG UNITS, 'U-B') RISER DIAGRAM
DIAGRAMMATIC ONLY

- NOTES:
- FROM UTILITY PAD MOUNTED TRANSFORMER, SEE CIVIL/SITE PLANS FOR LOCATION. SECONDARY SERVICE ENTRANCE CONDUCTORS PROVIDED AND INSTALLED BY EC. ONE SET OF 2#4/0, 1#2/0 CU USE, IN 2-1/2" CONDUIT, OR ONE SET OF 2#300KCM, 1#4/0 AL USE, IN 3" CONDUIT. EC SHALL CONTACT UTILITY FOR MOST UP TO DATE AVAILABLE FAULT CURRENT. ALL PANELBOARDS AND CIRCUIT BREAKERS MUST HAVE AN AIC RATING GREATER THAN THE FAULT CURRENT.
 - ONE SET OF 2#2, 1#4 CU SER WITH #8 GND OR 2#1/0, 1#2, AL SER WITH #6 GND.
 - 125A METER BASE FOR EACH APT UNIT EQUAL TO EZMR113125 (3 BANK) BY SQUARE D OR EQUAL PROVIDED AND INSTALLED BY EC TO POWER CO. REQUIREMENTS. EACH APT UNIT PROVIDED WITH 125A MCB.
 - MAIN BUILDING SERVICE ENTRANCE SECTION TO BE EQUAL TO EZM1225TB BY SQUARE D OR EQUAL WITH 225A RATED MAINS AND LOAD CENTER BUS BAR ASSEMBLY, NEMA 3R.
 - #2 GROUNDING CONDUCTOR AND GROUNDING ELECTRODE SYSTEM. BOND ALL GROUNDS TOGETHER WITH #2 TO FORM ONE BUILDING GROUND. SEE GROUNDING DETAIL FOR MORE INFO.



2 BUILDING '1' (3 REG UNITS, 'U-B') & HOUSE RISER DIAGRAM
DIAGRAMMATIC ONLY

- NOTES:
- FROM UTILITY PAD MOUNTED TRANSFORMER, SEE CIVIL/SITE PLANS FOR LOCATION. SECONDARY SERVICE ENTRANCE CONDUCTORS PROVIDED AND INSTALLED BY EC. ONE SET OF 2#4/0, 1#2/0 CU USE, IN 2-1/2" CONDUIT, OR ONE SET OF 2#300KCM, 1#4/0 AL USE, IN 3" CONDUIT. EC SHALL CONTACT UTILITY FOR MOST UP TO DATE AVAILABLE FAULT CURRENT. ALL PANELBOARDS AND CIRCUIT BREAKERS MUST HAVE AN AIC RATING GREATER THAN THE FAULT CURRENT.
 - ONE SET OF 2#2, 1#4 CU SER WITH #8 GND OR 2#1/0, 1#2, AL SER WITH #6 GND.
 - 125A METER BASE FOR EACH APT UNIT EQUAL TO EZMR114125 (4 BANK) BY SQUARE D OR EQUAL PROVIDED AND INSTALLED BY EC TO POWER CO. REQUIREMENTS. EACH APT UNIT PROVIDED WITH 125A MCB.
 - 125A METER BASE FOR HOUSE SERVICE PROVIDED AND INSTALLED BY EC TO POWER CO. REQUIREMENTS. HOUSE SERVICE PROVIDED WITH 60A MCB.
 - MAIN BUILDING SERVICE ENTRANCE SECTION TO BE EQUAL TO EZM1225TB BY SQUARE D OR EQUAL WITH 225A RATED MAINS AND LOAD CENTER BUS BAR ASSEMBLY, NEMA 3R.
 - #2 GROUNDING CONDUCTOR AND GROUNDING ELECTRODE SYSTEM. BOND ALL GROUNDS TOGETHER WITH #2 TO FORM ONE BUILDING GROUND. SEE GROUNDING DETAIL FOR MORE INFO.
 - ONE SET OF 2#6, 1#8 CU SER WITH #8 GND IN 1-1/4".
 - 240/120V, 1 PHASE, 3 WIRE, 125 AMP, 12 SPACE PANEL EQUAL TO SQUARE D HOMELINE LOADCENTER, WITH 125 AMP MLO, NEMA 3R EXTERIOR RATED.

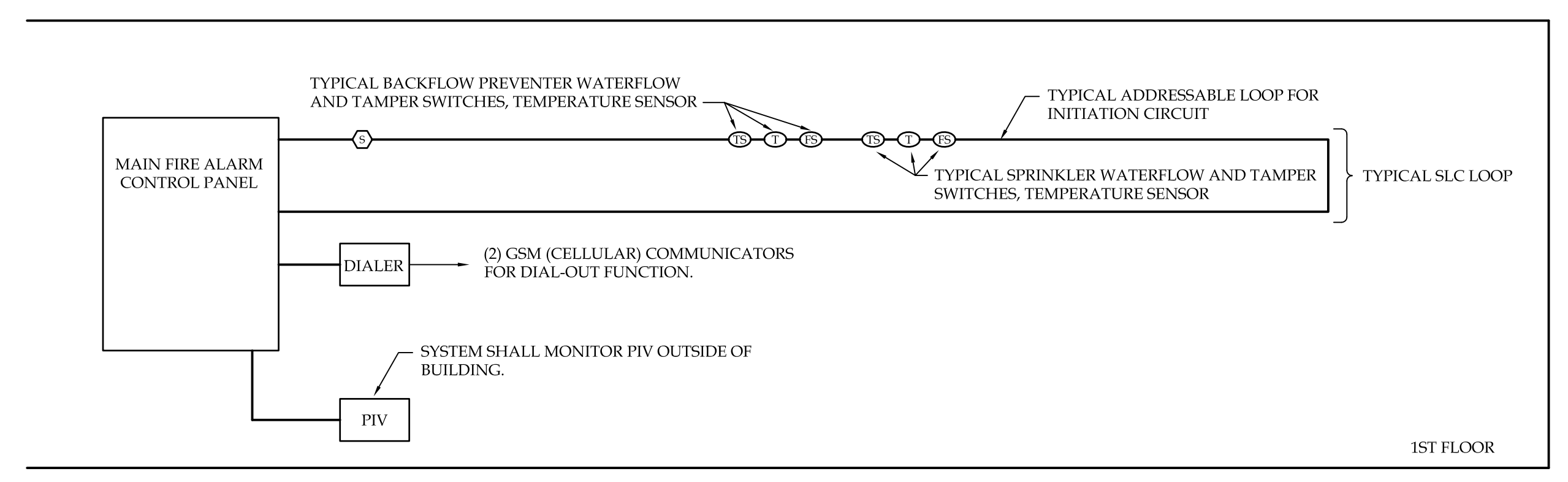


3 BUILDING '2' (2 FLATS, 1 REG UNIT) & HOUSE RISER DIAGRAM
DIAGRAMMATIC ONLY

- NOTES:
- FROM UTILITY PAD MOUNTED TRANSFORMER, SEE CIVIL/SITE PLANS FOR LOCATION. SECONDARY SERVICE ENTRANCE CONDUCTORS PROVIDED AND INSTALLED BY EC. ONE SET OF 2#4/0, 1#2/0 CU USE, IN 2-1/2" CONDUIT, OR ONE SET OF 2#300KCM, 1#4/0 AL USE, IN 3" CONDUIT. EC SHALL CONTACT UTILITY FOR MOST UP TO DATE AVAILABLE FAULT CURRENT. ALL PANELBOARDS AND CIRCUIT BREAKERS MUST HAVE AN AIC RATING GREATER THAN THE FAULT CURRENT.
 - ONE SET OF 2#2, 1#4 CU SER WITH #8 GND OR 2#1/0, 1#2, AL SER WITH #6 GND.
 - 125A METER BASE FOR EACH APT UNIT EQUAL TO EZMR114125 (4 BANK) BY SQUARE D OR EQUAL PROVIDED AND INSTALLED BY EC TO POWER CO. REQUIREMENTS. EACH APT UNIT PROVIDED WITH 125A MCB.
 - 125A METER BASE FOR HOUSE SERVICE PROVIDED AND INSTALLED BY EC TO POWER CO. REQUIREMENTS. HOUSE SERVICE PROVIDED WITH 60A MCB.
 - MAIN BUILDING SERVICE ENTRANCE SECTION TO BE EQUAL TO EZM1225TB BY SQUARE D OR EQUAL WITH 225A RATED MAINS AND LOAD CENTER BUS BAR ASSEMBLY, NEMA 3R.
 - #2 GROUNDING CONDUCTOR AND GROUNDING ELECTRODE SYSTEM. BOND ALL GROUNDS TOGETHER WITH #2 TO FORM ONE BUILDING GROUND. SEE GROUNDING DETAIL FOR MORE INFO.
 - ONE SET OF 2#6, 1#8 CU SER WITH #8 GND IN 1-1/4".
 - 240/120V, 1 PHASE, 3 WIRE, 125 AMP, 12 SPACE PANEL EQUAL TO SQUARE D HOMELINE LOADCENTER, WITH 125 AMP MLO, NEMA 3R EXTERIOR RATED.

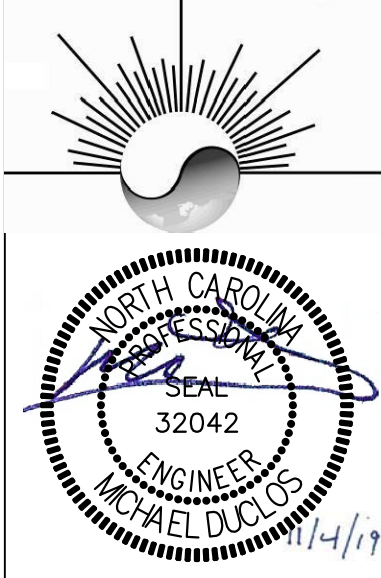
GENERAL NOTES - FIRE ALARM

- FIRE ALARM SYSTEM SHALL BE ADDRESSABLE, 24V DC, POWER LIMITED, FULLY SUPERVISED, WITH REMOTE AUTODIAL PANEL TO BE SURFACE MOUNTED LOCATED AS INDICATED ON THE DRAWINGS.
- FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH 2013 NFPA 72, NFPA 70 (NEC), 'ADA', AND THE REQUIREMENTS OF THE LOCAL AHJ.
- ALL FIRE ALARM WIRING SHALL BE IN MIN. 3/4" CONDUIT OR AS ALLOWED BY NEC OR LOCAL AHJ. ENT, ALSO KNOWN AS "SMURF TUBE" IS NOT ALLOWED. PROVIDE CABLE SIZE AND TYPE PER MFG. RECOMMENDATIONS. RACEWAYS AND J-BOXES CONTAINING FIRE ALARM CONDUCTORS SHALL BE MARKED IN RED FOR READY IDENTIFICATION.
- NOTIFICATION DEVICES AND CIRCUITS/LOOPS ARE NOT REQUIRED FOR THIS PROJECT.
- ALL ADDRESSABLE LOOP CONTROLLER (INITIATING) CIRCUITS SHALL BE WIRED WITH NO "T" TAPS MADE. PROVIDE 20% SPARE ADDRESSES PER LOOP.
- DEVICE QUANTITIES INDICATED ON THE PLANS SHALL BE VERIFIED BY THE FIRE ALARM CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF 2013 NFPA 72, INCLUDING THE CORRECT SPACING AND CANDELA RATINGS OF ANY HORN/STROBES. FIRE ALARM CONTRACTOR SHALL ADD DEVICES AT ANY POINT WHERE SPACING OR CANDELA RATINGS ARE NOT MET AND INCLUDE THESE IN HIS SHOP DRAWINGS AND IN HIS BID. VERIFY QUANTITY AND EXACT LOCATION WITH AHJ TO ENSURE BID INCLUDES ALL REQUIRED WORK.
- FIRE ALARM CONTROL PANEL LOCATION MUST BE APPROVED BY THE LOCAL FIRE DEPARTMENT REPRESENTATIVE.
- TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR.
- REFER TO APPROVED SPRINKLER SHOP DRAWINGS FOR LOCATION OF ALL SPRINKLER MONITORING POINTS.
- PROVIDE EMERGENCY POWER SUPPLY TO FIRE ALARM SYSTEM. MAY USE BATTERY BACKUP. BATTERY MUST OPERATE FOR 5 MINUTES IN ALARM AFTER 24 HOURS IN STANDBY.



4 FIRE ALARM RISER DIAGRAM
N.T.S.

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PROJECT NO.: 19M01-18005
SEE SHEET # MRD
DRAWN BY: MRD
DATE: 10.25.2019
PERMIT SET
ISSUE:
Meredith Square Phase 3
Apartments
BUIES CREEK, NC
CLIENT: MEREDITH SQUARE LLC

REVISIONS

Electrical
Riser
Diagram

E9.01