

2018 APPENDIX B – BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: Angier & Black River Fire Department
 Address: Angier, NC Zip Code: 27501
 Proposed Use: Fire Station
 Owner/Authorized Agent: Fire Chief Phone # (919) 639-6234 E-Mail: angierfirechief@gmail.com
 Owned By: City/County Private State
 Code Enforcement Justification: City County State

LEAD DESIGN PROFESSIONAL: NEAL SMITH ENGINEERING, INC.

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-Mail
Building	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Civil	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Electrical	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Fire Alarm	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Plumbing	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Mechanical	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Sprinkler-Standpipe	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Structural	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Retaining Wall >5' High	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Foundation	NSE, Inc.	Neal E. Smith, P.E.	NC 19311	910-695-8825	nsmith@nsengineering.com
Other					

(*Other* should include firms and individuals such as truss, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Construction Addition Renovation
 1st Time Interior Completions
 Shell/Core – Contact the local inspection jurisdiction for possible additional procedures and requirements
 Phased Construction – Shell/Core – Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 (check all that apply) Alteration: Level I Level II Level III
 Historic Property Change of Use
CONSTRUCTED: 1940 (Date) **CURRENT OCCUPANCY(S):** B/R/S (Chapter 3)
RENOVATED: 2020 (Date) **PROPOSED OCCUPANCY(S):** B/R/S (Chapter 3)
RISK CATEGORY (Table 1604.5): **Current:** I II III IV
Proposed: I II III IV

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B

Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D ESFR
 Standpipes: No Class I II III Wet Dry
 Fire District: No Yes Flood Hazard Area: No Yes
 Special Inspections Required: No Yes; (Contact the local inspection jurisdiction for additional procedures and requirements.)
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL (SQ FT)
6th Floor			
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine	750	483	1,233
1st Floor	14,046	2,733	16,779
Basement			

TOTAL BUILDING AREA: 16,779 sq. ft. **TOTAL FIRE AREA:** Refer to Sheet LS4 sq. ft.

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5 Business Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1; Cond. I-2 I-3; Cond. I-2 I-3; Cond. I-2 I-3 I-4
 Mercantile Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Secondary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5 Business Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1; Cond. I-2 I-3; Cond. I-2 I-3; Cond. I-2 I-3 I-4
 Mercantile Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Accessory Occupancy Classification(s): Residential (R-2) and Assembly (A-3)
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 – List Sections): N/A
Special Provisions (Chapter 5 – List Sections): N/A
Mixed Occupancy: No Yes Separation: 2 Hr. Exception:
 Non-Separated Use (508.3): 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 Use (508.4): See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area:	1,371	3,933	1,982	8,948	=	0.41	≤	1.00
Allowable Area:	24,000 (A-3)	36,000 (B)	28,000 (R-2)	54,000 (S-2)				

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ² AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	Assembly	1,371	24,000	--	--
1	Business	3,205	36,000	--	--
1	Residential	1,780	28,000	--	--
1	Storage	8,948	54,000	--	--

- Open space area increase from Section 506.2 area computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = ____ (F)
 b. Total Building Perimeter = ____ (P)
 c. Ratio (F/P) = ____ (F/P)
 d. W = Minimum Width of public way = ____ (W)
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in the building x D (max. 3 stories) (506.2).
- The maximum area of parking garages must comply with 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1
- Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT

BUILDING HEIGHT IN FEET (TABLE 504.3) ²	ALLOWABLE	SHOWN ON PLAN	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²		BUILDING IS EXISTING AND THE ADDITIONS ARE THE SAME HEIGHT	
Building Height in Stories (Table 504.4) ³			

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL AND SHEET #	DESIGN FOR RATED ASSEMBLY	DESIGN FOR RATED PEN.	DESIGN FOR RATED JOINTS
		REQ'D	PROVIDED (w/REDUCTION)				
Structural Frames, including columns, girders, trusses	N/A						
Bearing Walls							
Exterior							
North	None						
East	None						
West	None						
South	None						
Interior	None						
Nonbearing walls and partitions							
Exterior							
North	None						
East	None						
West	None						
South	None						
Interior Walls & Partitions	None						
Floor construction including supporting beams and joist	N/A						
Floor Ceiling Assembly	N/A						
Columns Supporting Floors	N/A						
Roof construction including supporting beams and joist	N/A						
Roof Ceiling Assembly	N/A						
Columns Supporting Roof	N/A						
Shafts - Exit	N/A						
Shafts - Other	N/A						
Corridor Separation	1	--		Sheet LS1	UL U305		
Occupancy/Fire Barrier Separation	2	--		Ex. Wall			
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Smoke Partition	N/A						
Tenant/Dwelling Unit/Sleeping Unit Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

WALL MARKER	FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North	>25	Unlimited		
South	>25	Unlimited		
East	>25	Unlimited		
West	>25	Unlimited		

ACCESSIBLE DWELLING UNITS (SECTION 1107)

ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING – REFER TO SITE PLAN (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES	32" ACCESS AISLE	
New						
Existing						
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESS.
SPACE EXIST'G	2	4	0	2	3	3	0			1
NEW	1	1	1	0	1	1	1	1 Eo.	0	0
REQ'D	3	5	0	2	4	4	0	0	0	1

ENERGY REQUIREMENTS: ENERGY SUMMARY – OFFICE AREA ONLY

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 (The remainder of this section is N/A) No

Exempt Building: Provide code or statutory reference:
 Climate Zone: N/A 3A 4A 5A
 Method of Compliance: Energy Code - Prescriptive ASHRAE 90.1 - Prescriptive
 Energy Code - Performance ASHRAE 90.1 - Performance
 Other - Performance;

THERMAL ENVELOPE

Roof/Ceiling Assembly (each assembly):
 Description of assembly: EPDM Insulation Bd. (totally above deck), Decking, Bar Joist, Insulation
 U-Value of total assembly: 0.026
 R-Value of insulation: R-38 > R-30 Required
 Skylights in each assembly: N/A
 U-Value of skylight: N/A
 total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly):
 Description of assembly: 4" Brick, 8" CMU, 3.5 Wood Studs @ 16" O.C., Insulation, Gyp. Bd.
 U-Value of total assembly: 0.061
 R-Value of insulation: Total Wall Assembly Rating of R-16.55 > R-9.5 required
 Openings (windows or doors with glazing)
 U-Value of assembly: Door 0.33 – Window 0.45
 Solar heat gain coefficient: Door 0.35 – Windows 0.33/0.40
 projection factor: Door 0.35 – Windows 0.48/0.56
 Door R-Values: 15

Walls below grade (each assembly):
 Description of assembly: N/A
 U-Value of total assembly:
 R-Value of insulation:

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

Floors slab on grade:
 Description of assembly: Slab-on-Garde with Masonry Strip Footing
 U-Value of total assembly: F=0.52
 R-Value of insulation: R=15 fo 24"
 Horizontal/Vertical requirement: 24" vertical
 Slab heated: No

ENERGY SUMMARY FOR STORAGE ADDITION IS EXEMPT PER G.S. 143-138; SECTION 1.4

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 PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1 – LS4

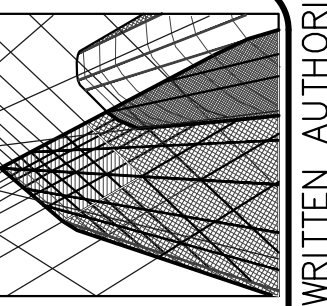
- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not on the site plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distances (1017)
- Common path of travel distance (Tables 1006.2.1 & 1006.3.2(1))
- Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit can accommodate based on egress width (1005.3)
- Actual occupant load for each door
- 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 (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with with electromagnet egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

SPECIAL APPROVALS

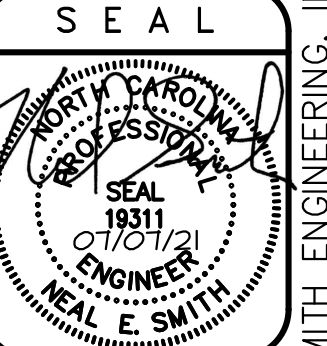
Special approval:
 (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC etc., describe below)

ANGIER & BLACK RIVER FIRE DEPARTMENT
 Angier, NC
 CODE SUMMARY

REVISIONS
 07/07/21



Neal Smith Engineering, Inc.
 139 Pinelawn Avenue - Suite C
 Southern Pines, NC 28387
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 Fax: (910) 695-8832
 www.nseengineering.com
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 for
 CONSTRUCTION

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 SCALE:
 As Noted
 DATE:
 02/17/21
 JOB NUMBER:
 2000529
 DRAWING KEY:
 CS

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GENERAL NOTES:

- THIS MAP IS NOT IN ACCORDANCE WITH GS 47-30.
- AREA BY COORDINATE METHOD.
- PROPERTY DOES NOT LIE IN A DESIGNATED FEMA FLOOD HAZARD ZONE.
- CONTOUR INTERVAL 1'
- TOPOGRAPHICAL, AS-BUILT AND BOUNDARY INFORMATION PROVIDED BY: STANCL & ASSOCIATES, 98 DEPOT ST., ANGER, NC 27501
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR SITE CHANGES TO THE APPROVED PLANS. ANY VARIATION TO THE APPROVED PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR EVALUATION OF THE SITE CONDITIONS AND RESUBMITTED FOR APPROVAL.
- CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER FOR A REVIEW SHOULD ANY DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS.
- UTILITY LOCATIONS SHOWN ARE FOR GENERAL LOCATION PURPOSES AND COORDINATION ONLY. THESE LOCATIONS ARE NOT THE RESPONSIBILITY OF NEAL SMITH ENGINEERING, INC.
- EXISTING ELEVATIONS ARE TO BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR EVALUATION.
- CONTRACTOR TO VERIFY BUILDING DIMENSIONS FROM THE APPROVED BUILDING CONSTRUCTION DRAWINGS.

Legend:

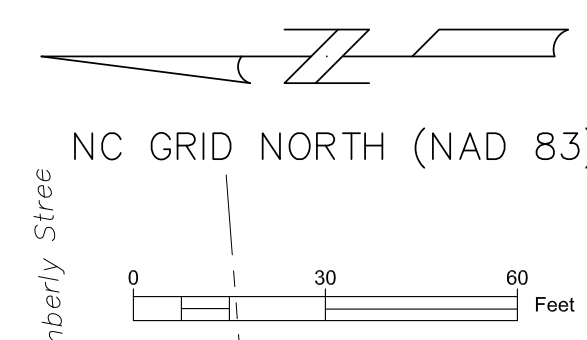
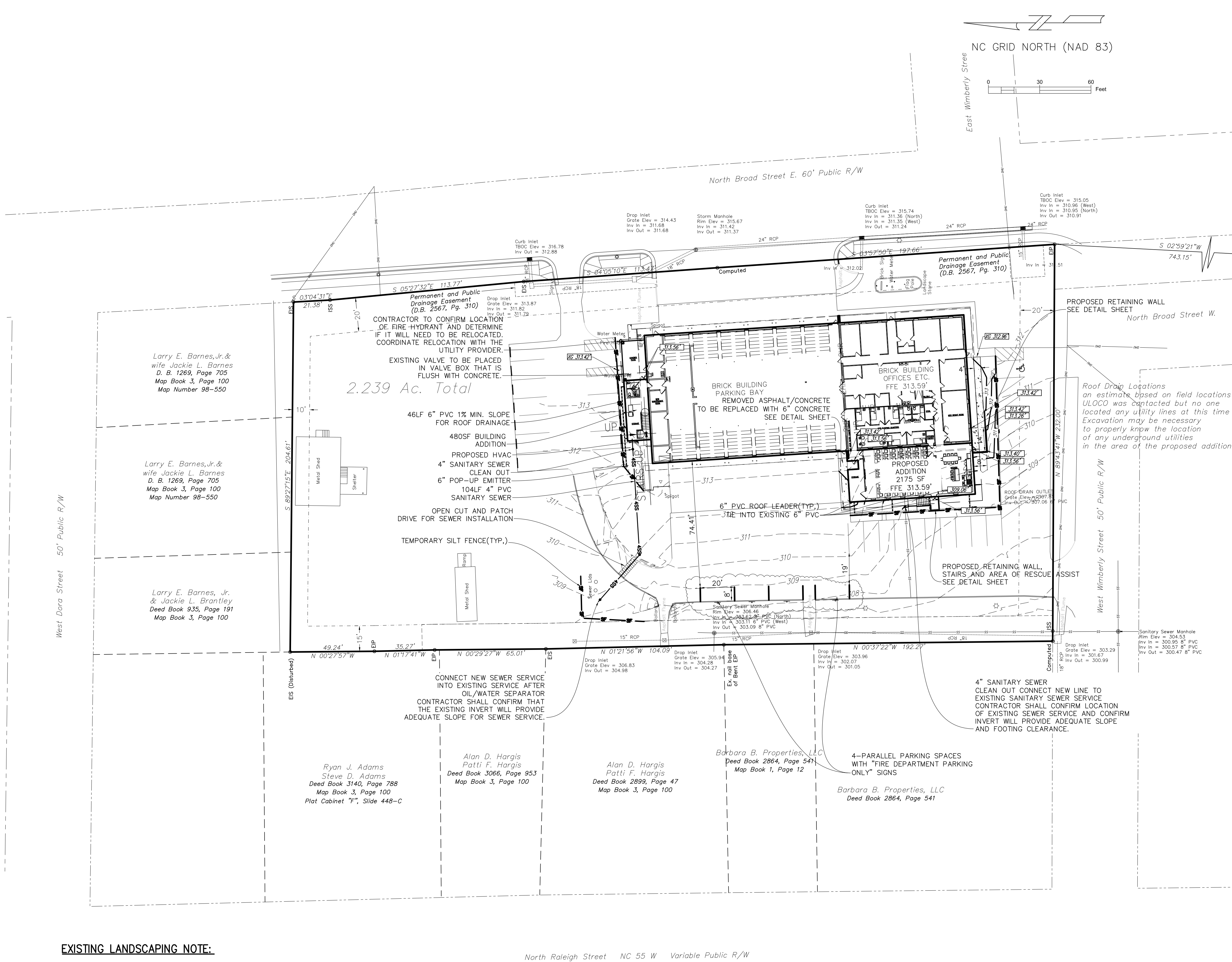
- = Iron Pipe Found
- = Iron Rod Found
- = Concrete Monument Found
- ▲ = PK Nail Found
- ▲ = PK Nail Set
- = Existing Right of Way
- - - = Proposed Right of Way
- = Boundary Line
- - - = Adjacent Property Lines not Surveyed
- - - = Existing Setback Lines
- - - = Proposed Setback Lines
- 100' = Existing Contour
- 100' = Proposed Contour
- = Approximate Location of Existing Waterline
- = Proposed 6" Waterline
- = Approximate Location of Existing Gas Line
- = Existing Sanitary Sewer Line
- = Proposed 8" Sanitary Sewer Line
- = Existing Easement
- = Proposed Easement
- = Existing Overhead Utility
- = Existing Underground Utility
- = Existing Wetland Limits
- = Existing Fence
- = Proposed Fence
- = Proposed 4" Sewer Service
- = Proposed 2" Water Service
- = Limits of Disturbance
- = Proposed Silt Fence
- = Proposed Temporary Diversion
- = Existing Stream Centerline
- = Existing Soil Road
- = Existing Gravel Road
- = Existing Light Pole
- = Proposed Light Pole
- = Existing Utility Pole
- = Proposed Utility Pole
- = Existing Water Meter
- = Proposed Water Meter
- = Existing Water Valve
- = Proposed Water Valve
- = Existing Fire Hydrant
- = Proposed Fire Hydrant
- = Existing Sanitary Sewer Manhole
- = Proposed Sanitary Sewer Manhole
- = Existing Sewer Clean out
- = Proposed Sewer Clean out
- = Curb Inlet
- = Existing Storm Drain Manhole
- = High Density Polyethylene Pipe
- = Reinforced Concrete Pipe
- = Flared End Section
- = Proposed Spot Elevation

OWNER
 ANGER & BLACK RIVER FIRE DEPARTMENT
 PO BOX 309
 309 N. BROAD ST.
 ANGER, NC 27501

SITE JURISDICTION: ANGER, NC
ADDRESS: 309 N. BROAD ST., ANGER, NC 27501
PARCEL ID/PIN: 40674 0153/674-71-3593
DEED BOOK & PAGE: DB 2705, PG 772
CURRENT ZONING: R-10
SETBACKS:
R-10 ZONING
FRONT: 20'
SIDE: 10'(20' CORNER)
REAR: 15'
TOTAL ACREAGE: 2.239 ACRES
RIVER BASIN: CAPE FEAR
WATER SUPPLY WATERSHED: N/A
EXISTING IMPERVIOUS AREA: 1.05 ACRES(46.9%)
PROPOSED IMPERVIOUS AREA: 1.11 ACRES(49.6%)
DISTURBED AREA: 0.09 ACRES(4,257SF)

EXISTING LANDSCAPING NOTE:

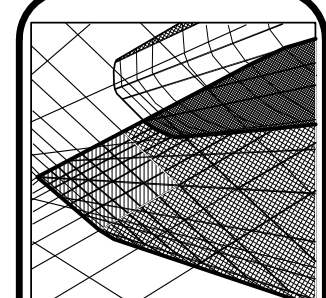
EXISTING FOUNDATION PLANTINGS DISPLACED DURING CONSTRUCTION SHALL BE RETAINED OR REPLACED. RETAINED OR REPLACED PLANTINGS SHALL BE PLANTED AT THE SAME RATE AROUND EXISTING/NEW CONSTRUCTION.



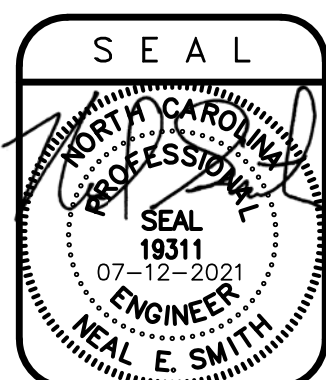
ANGER & BLACK RIVER FIRE DEPARTMENT
 ANGER, NC
SITE PLAN

REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	06-24-2021	BCW	
2	07-12-2021	BCW	



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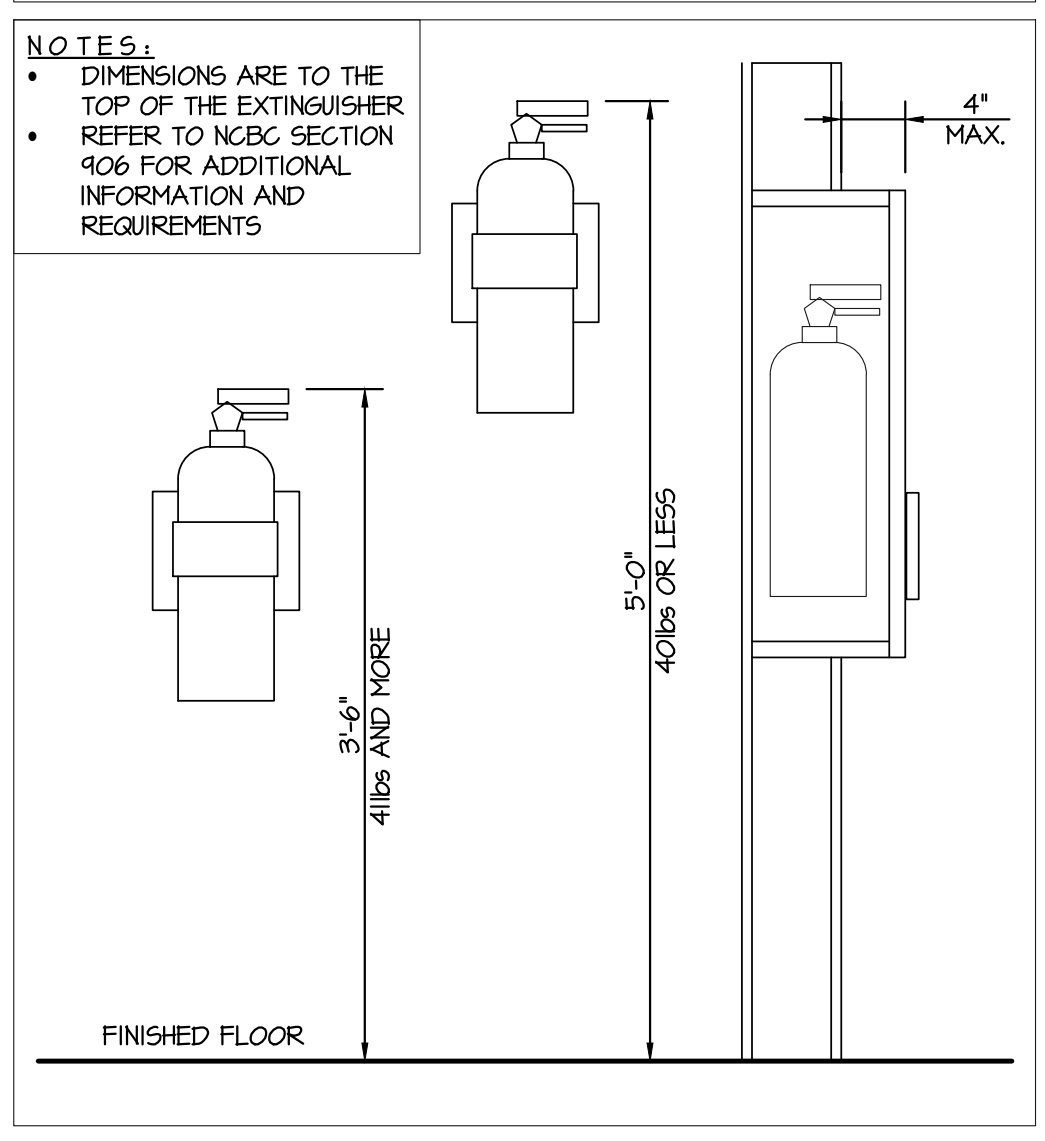
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SCALE: As Noted
DATE: 02-17-2021
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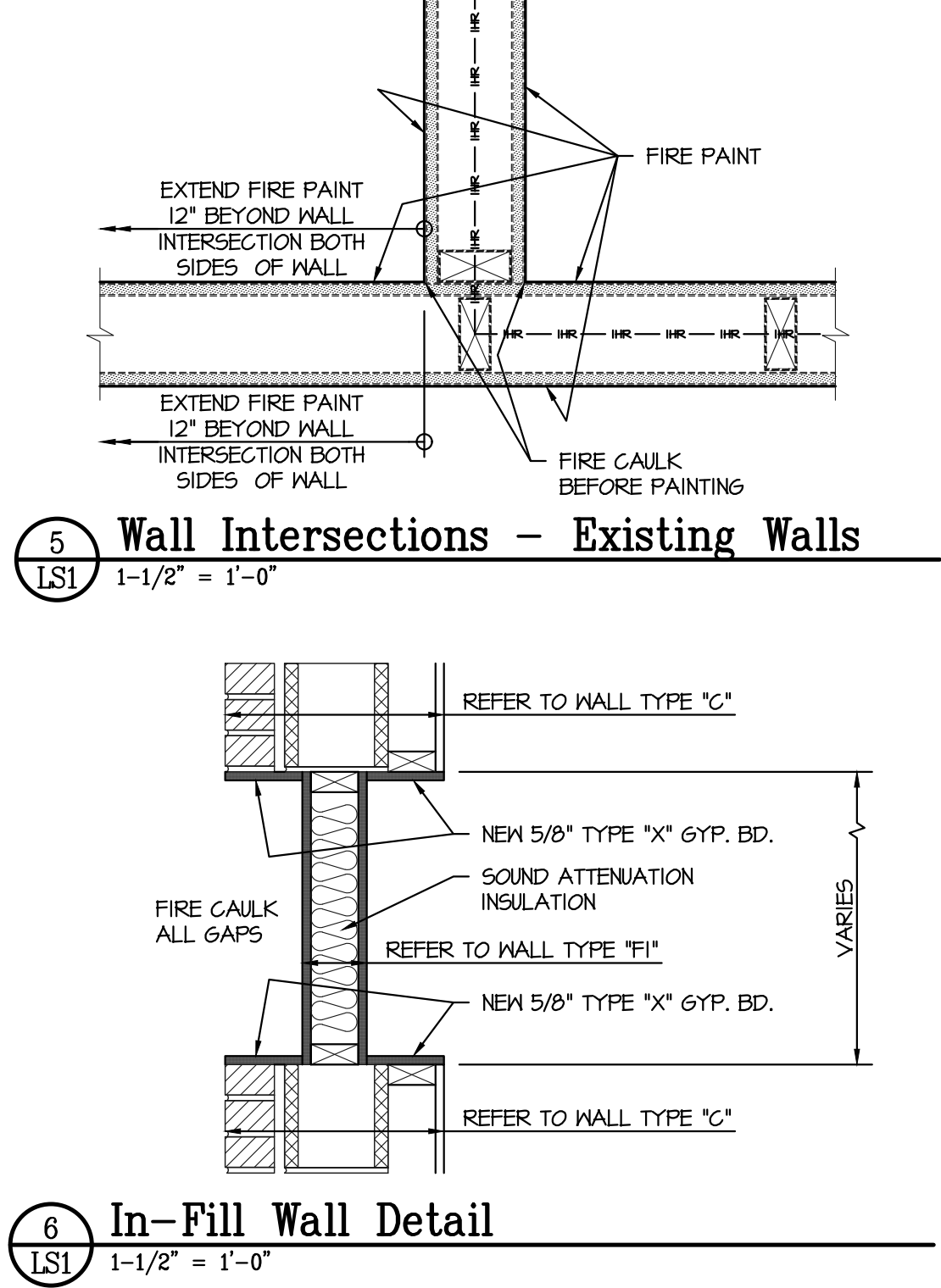
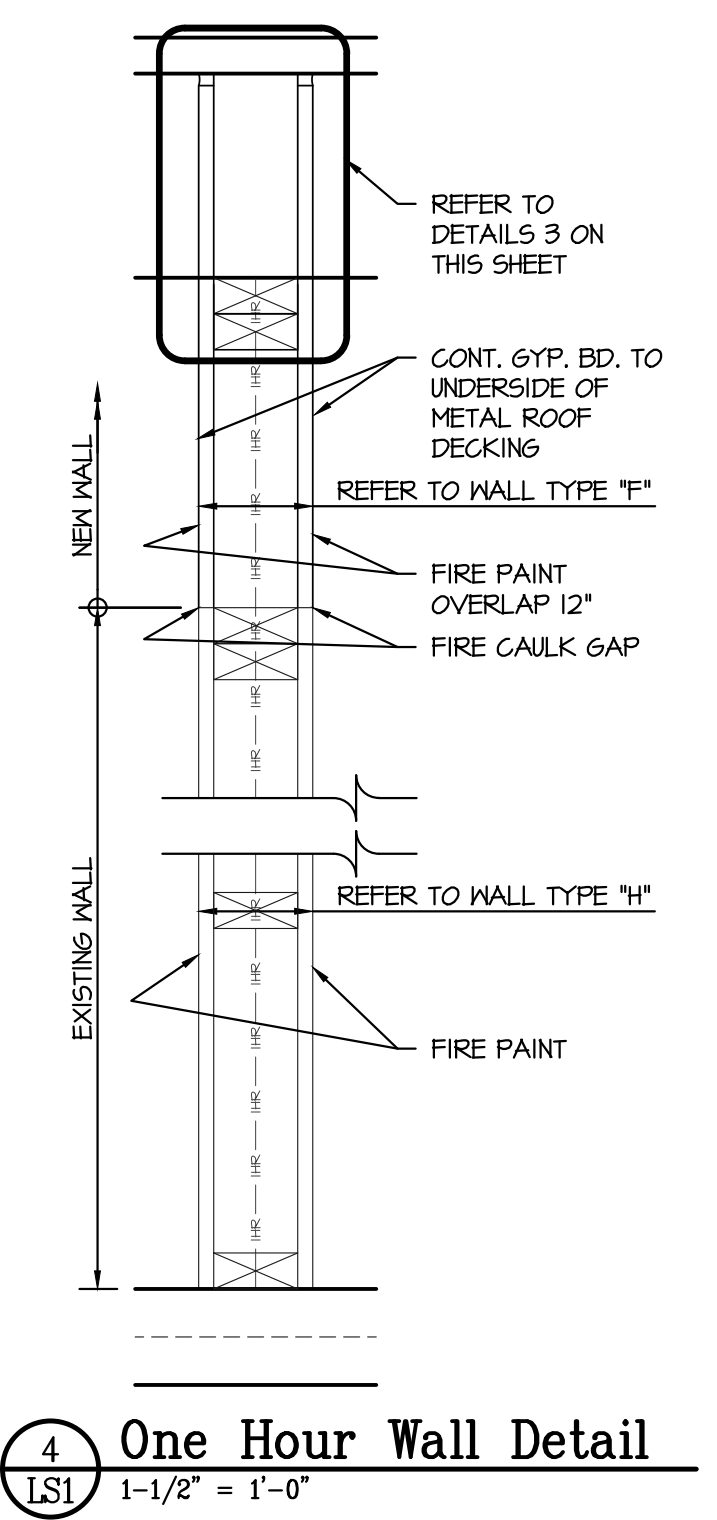
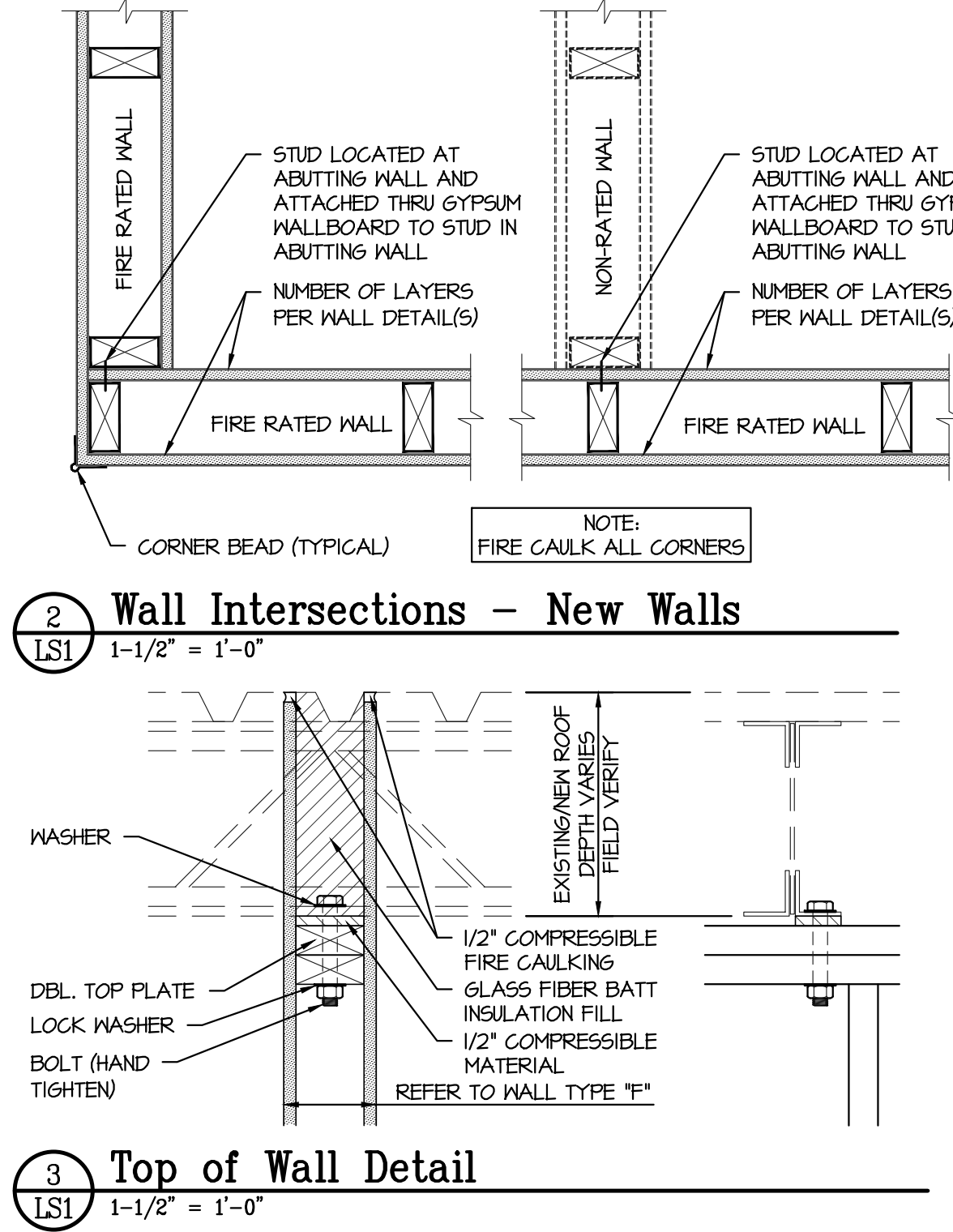
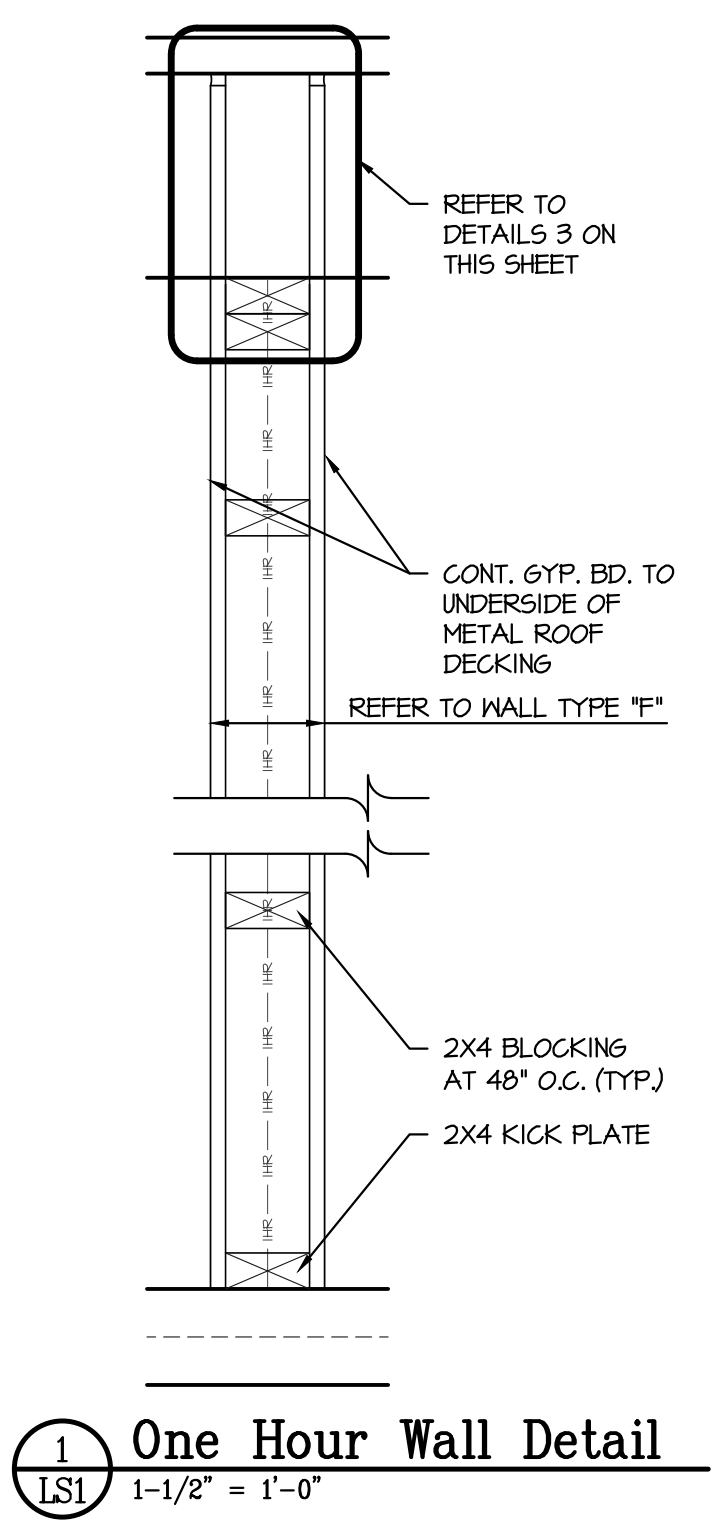
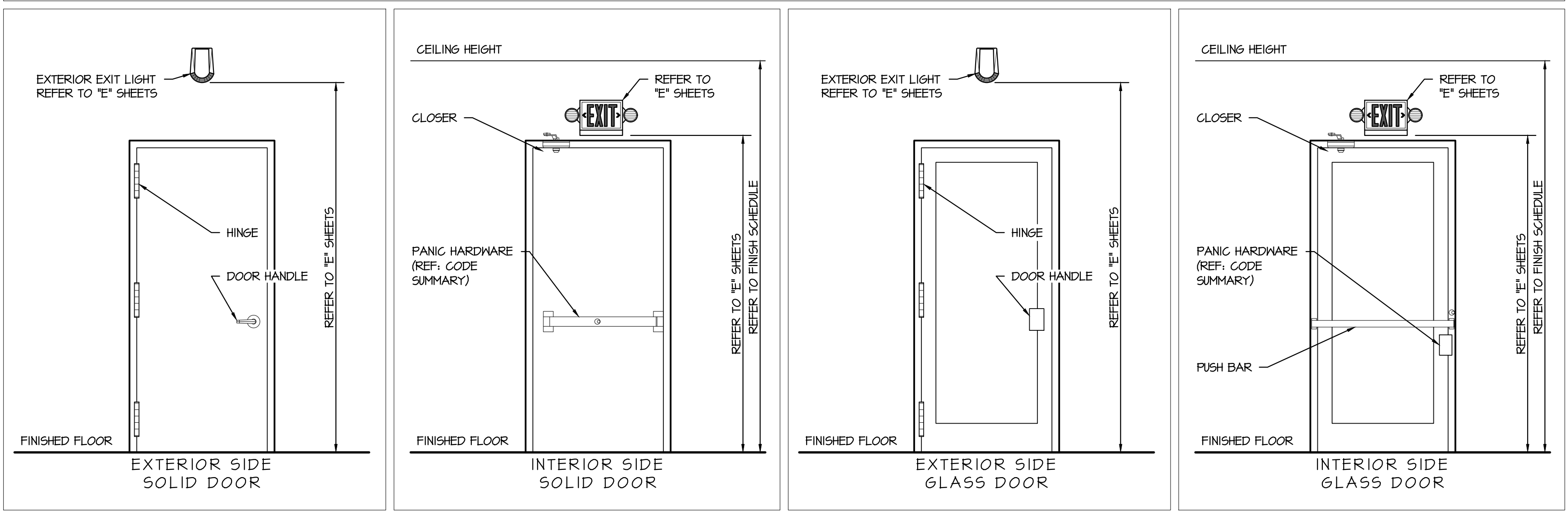
Wall Assemblies

SYMBOL	DESCRIPTION
A	EXTERIOR WALL VENEER AIR SPACE MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL PERLITE INSULATION FILL AT UNREINFORCED CELLS 8" CMU
B	EXTERIOR WALL VENEER 1" MIN. AIR SPACE MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL PERLITE INSULATION FILL AT UNREINFORCED CELLS 8" CMU 2x5 @ 16" C/C 5/8" GYP. BOARD R15 BATT INSULATION
B1	EXTERIOR WALL VENEER INSULATION 8" CMU 2x5 GYP. BOARD
C	EXTERIOR WALL - EXISTING VENEER INSULATION 8" CMU 2x5 GYP. BOARD
D	INTERIOR WALL EXISTING WALL FlameOFF FIRE BARRIER PAINT 2 x 6 @ 16" C/C 5/8" GYP. BOARD
E	INTERIOR WALL - NON-RATED WALL NO INSULATION 5/8" GYP. BOARD 2 x 4 @ 16" C/C 5/8" GYP. BOARD
E1	INTERIOR WALL - NON-RATED WALL SOUND ATTENUATION INSULATION 5/8" GYP. BOARD 2 x 4 @ 16" C/C SOUND ATTENUATION INSULATION 5/8" GYP. BOARD
F	INTERIOR WALL - ONE HOUR RATED WALL; REFER TO UL U305 FULL WALL 5/8" GYP. BOARD (TYPE "X") 2 x 4 @ 16" C/C 5/8" GYP. BOARD (TYPE "X")
F1	INTERIOR WALL - ONE HOUR RATED WALL; REFER TO UL U305 IN-FILL WALL 5/8" GYP. BOARD (TYPE "X") 2 x 4 @ 16" C/C 5/8" GYP. BOARD (TYPE "X")
G	DETAIL NOT USED
H	INTERIOR WALL: PAINT TO BE ASTM E84/UL T23, CLASS "A" FLAME SPREAD (EXTEND WALL TO ROOF DECK) EXISTING SLEEPING AREA EXISTING WALL FlameOFF FIRE BARRIER PAINT OR EQUAL NEW SLEEPING AREA 5/8" GYP. BOARD (TYPE "X") 2x5 MATCHING EXISTING 5/8" GYP. BOARD (TYPE "X")
J	INTERIOR WALL - NON-RATED WALL NO INSULATION 5/8" GYP. BOARD 2 x 6 @ 16" C/C SOUND ATTENUATION INSULATION 5/8" GYP. BOARD
J1	INTERIOR WALL - NON-RATED WALL SOUND ATTENUATION INSULATION 5/8" GYP. BOARD 2 x 6 @ 16" C/C SOUND ATTENUATION INSULATION 5/8" GYP. BOARD
K	EXTERIOR WALL - EXISTING GYP. BOARD 2 x 4 @ 16" C/C INSULATION 2 x 4 @ 16" C/C GYP. BOARD

Extinguisher

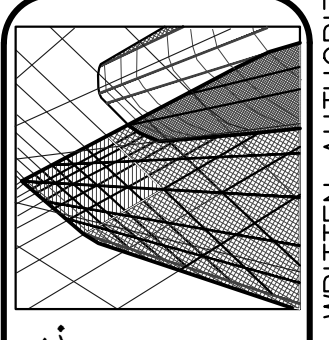


Door Details

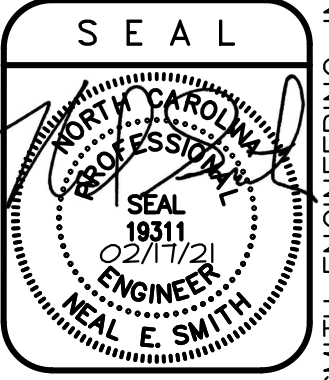


ANGIER & BLACK RIVER FIRE DEPARTMENT
 Angier, NC
 LIFE SAFETY DETAILS AND LEGENDS

REVISIONS



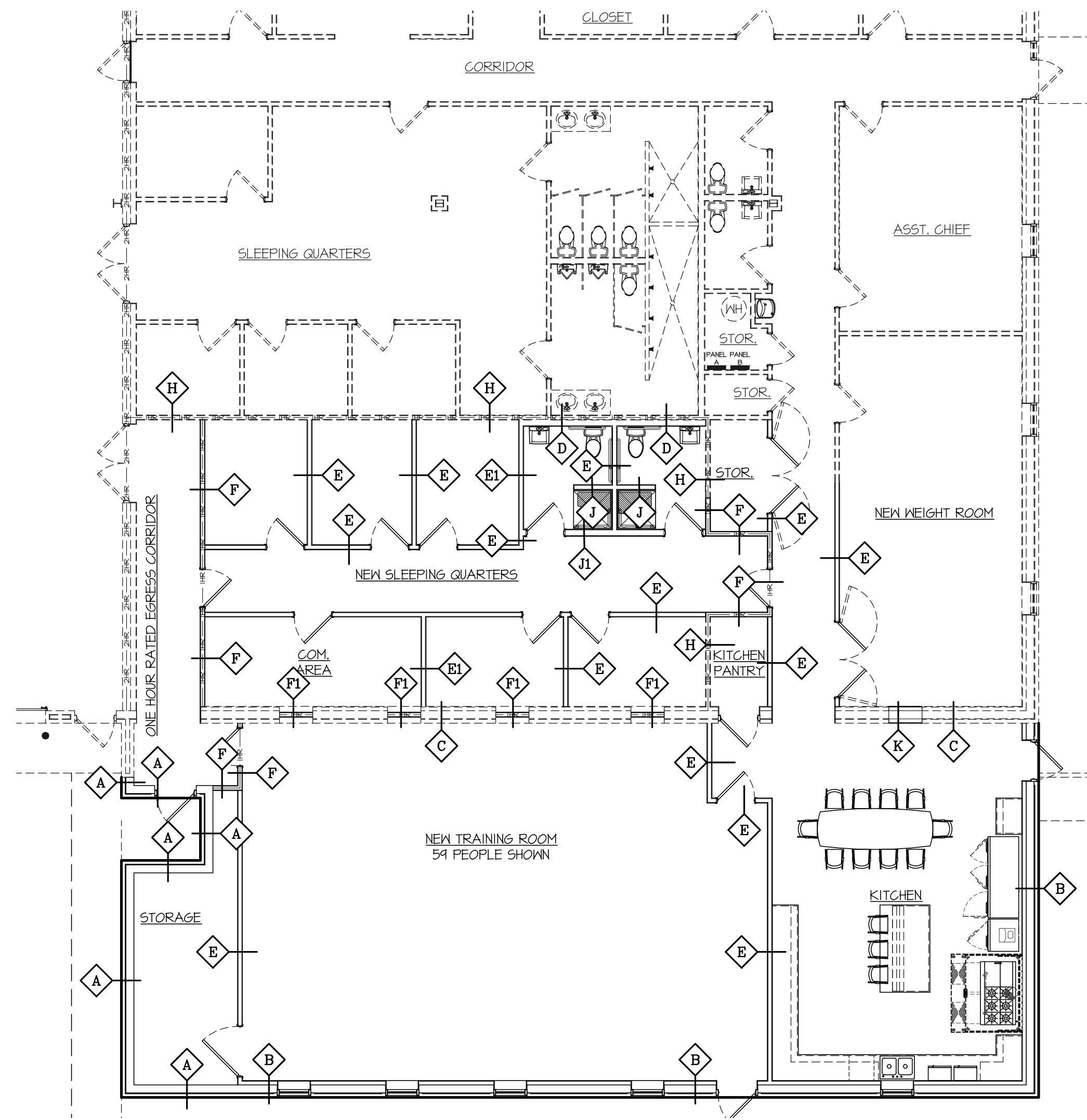
Neal Smith Engineering, Inc.
 139 Pinhook Avenue - Suite C
 Southern Pines, NC 28387
 Phone: (910) 695-8825
 Fax: (910) 695-8832
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 License No. C-1425



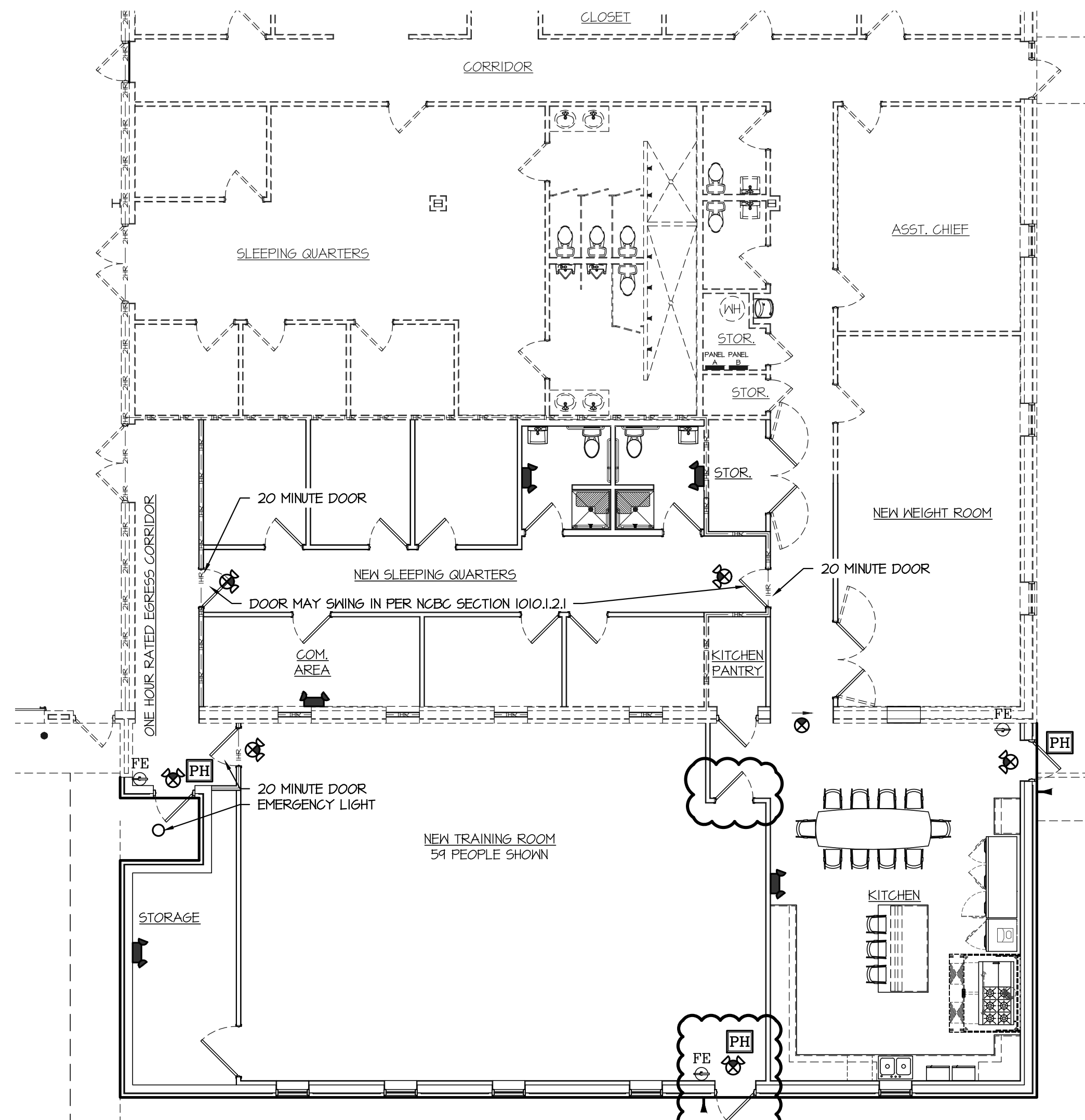
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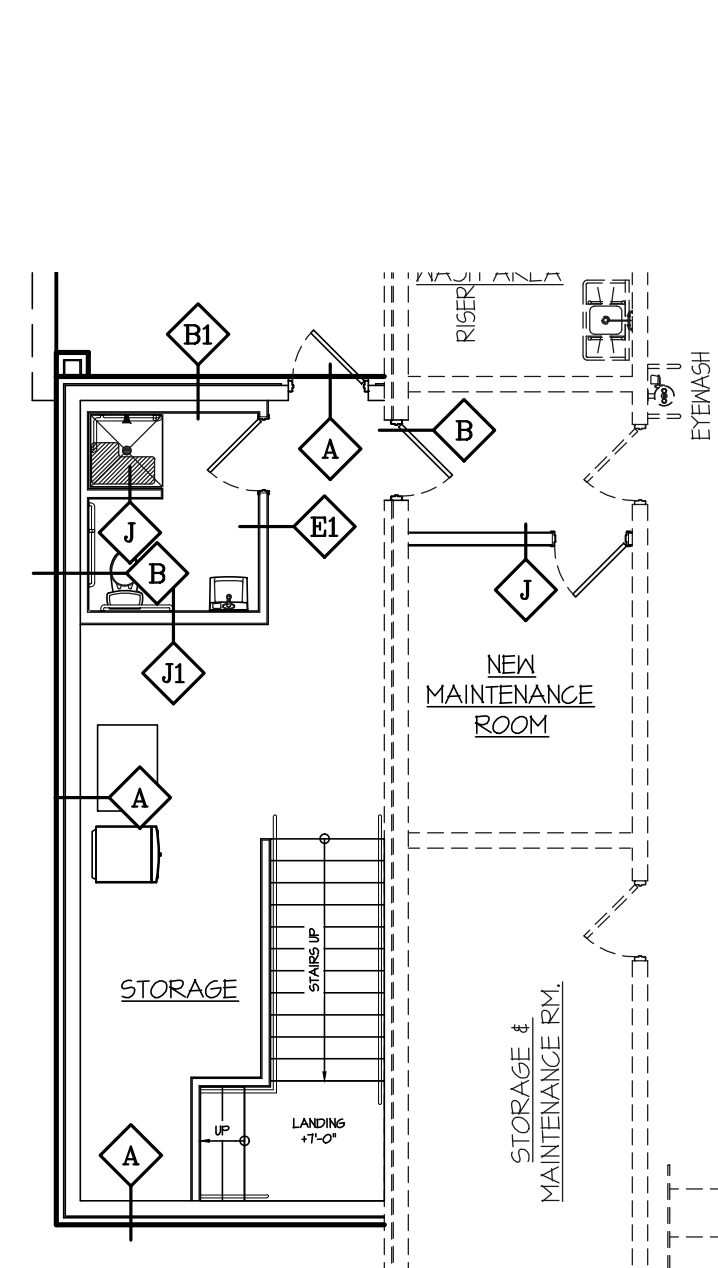
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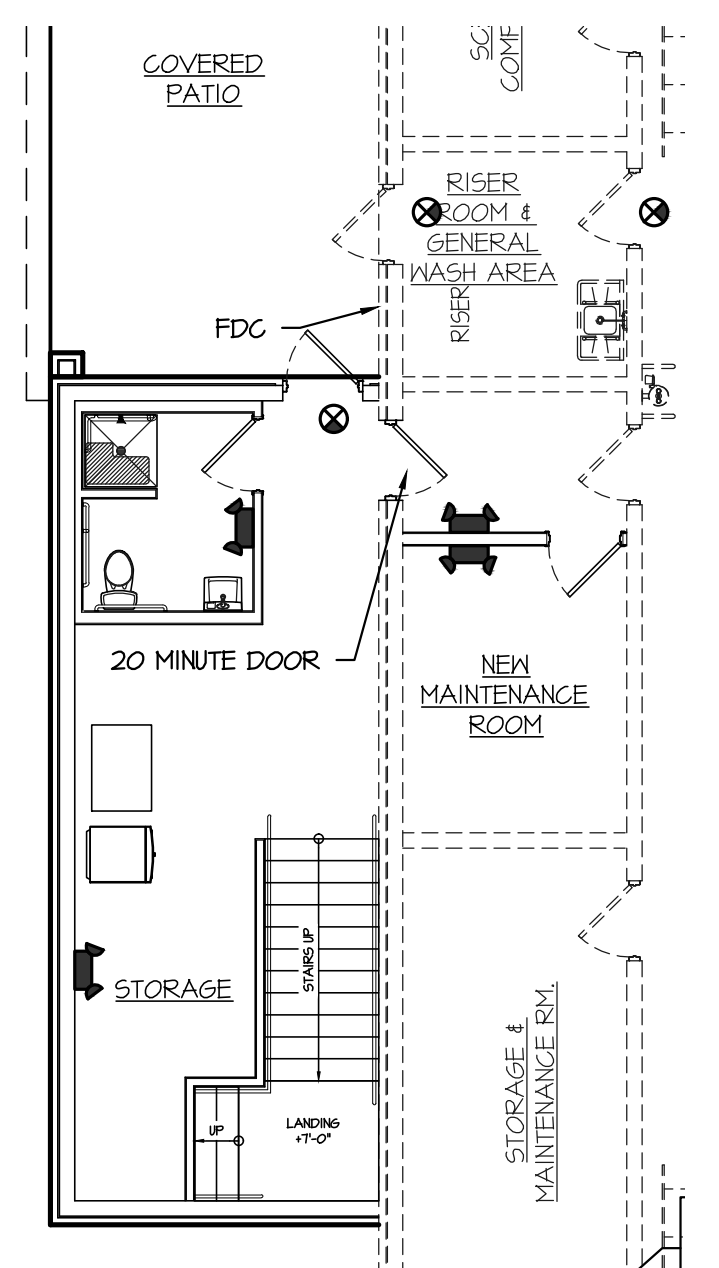
1 Life Safety Plan - Wall Plan
 1/8" = 1'-0"



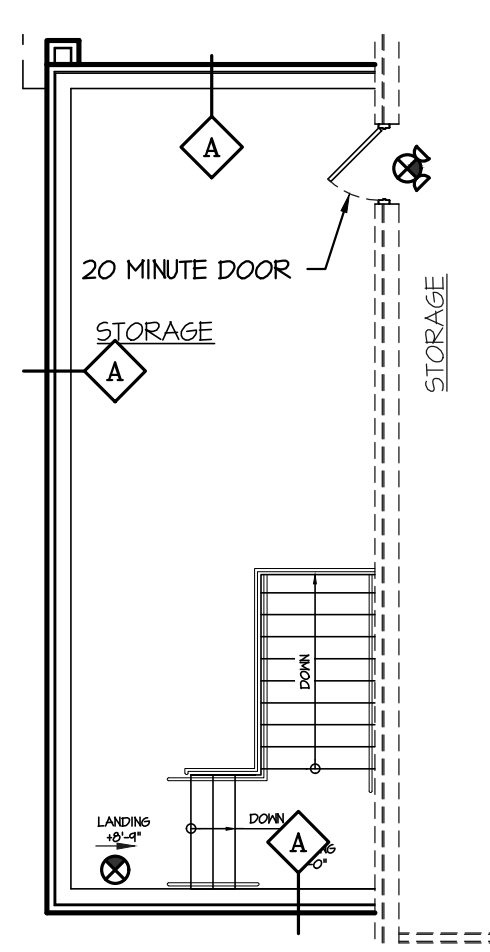
2 Life Safety Plan - Equipment Plan
 1/8" = 1'-0"



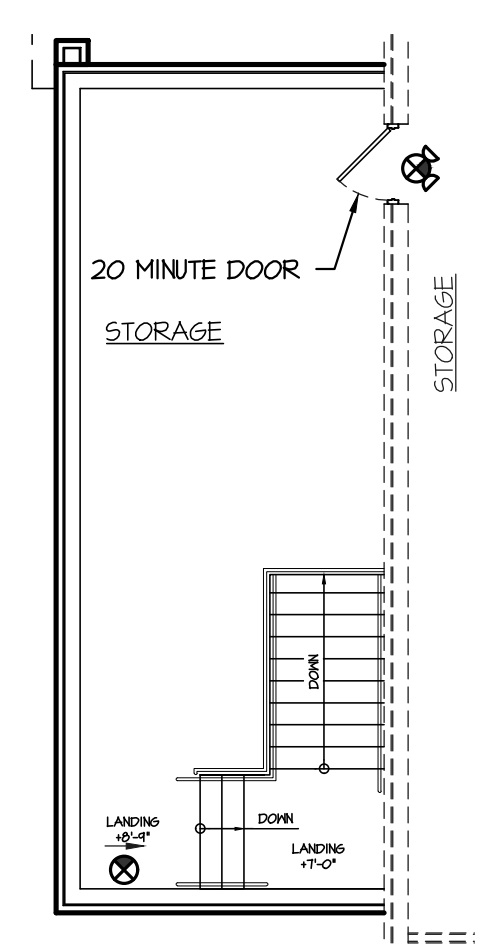
3 Life Safety Plan - Wall Plan
 1/8" = 1'-0"



4 Life Safety Plan - Equipment Plan
 1/8" = 1'-0"



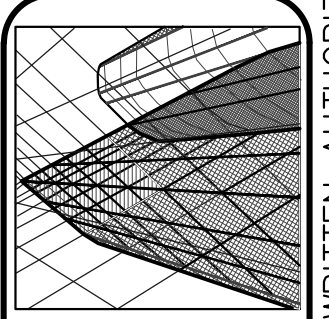
3 Life Safety Plan - Upper Wall Plan
 1/8" = 1'-0"



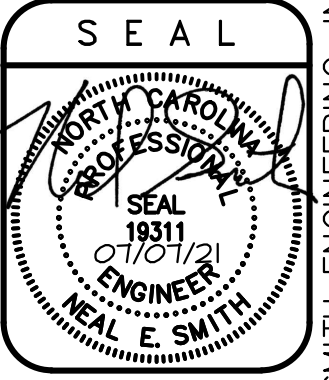
4 Life Safety Plan - Upper Equipment Plan
 1/8" = 1'-0"

ANGIER & BLACK RIVER FIRE DEPARTMENT
 Angier, NC
 LIFE SAFETY WALL AND EQUIPMENT PLANS

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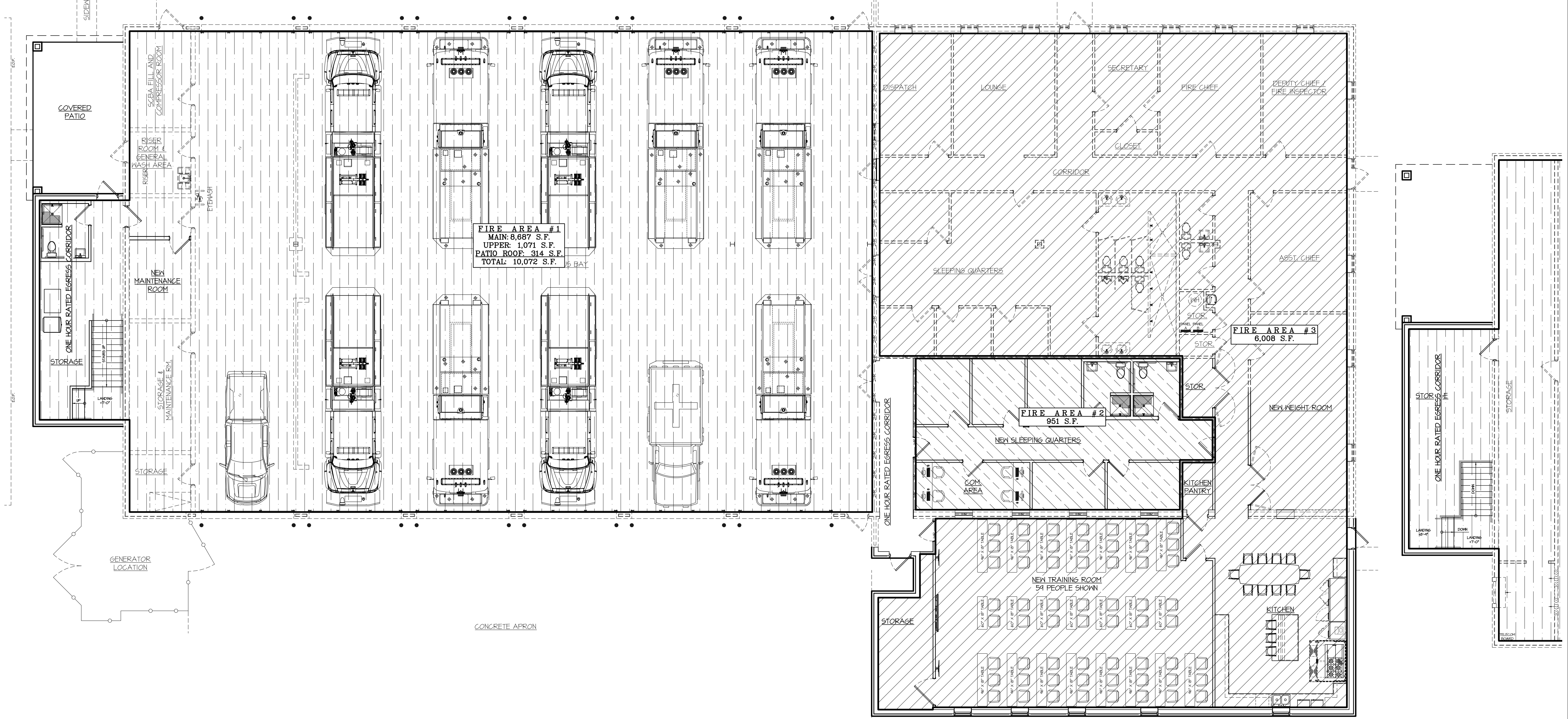
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FIRE AREA #1
 MAIN: 8,687 S.F.
 UPPER: 1,071 S.F.
 PATIO ROOF: 314 S.F.
 TOTAL: 10,072 S.F.

FIRE AREA #3
 6,008 S.F.

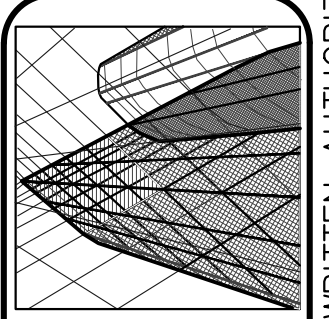
FIRE AREA #2
 951 S.F.

1 Life Safety Plan - Fire Areas
 1/8" = 1'-0"

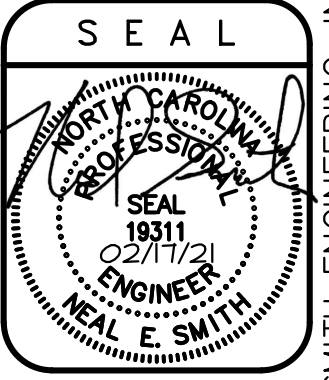
2 Life Safety Plan
 Fire Area
 1/8" = 1'-0"

ANGIER & BLACK RIVER FIRE DEPARTMENT
 Angier, NC
 LIFE SAFETY FIRE AREA

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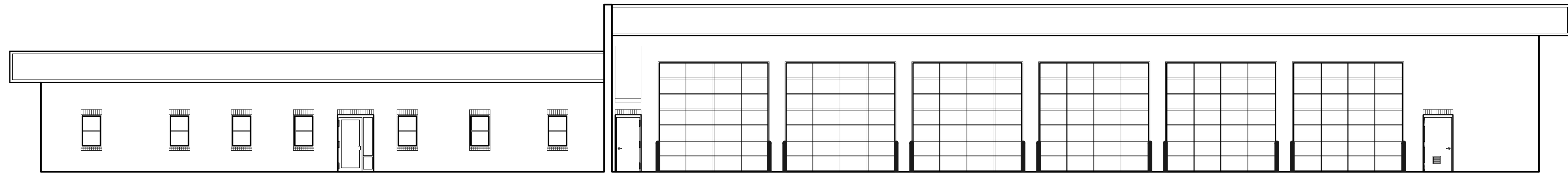
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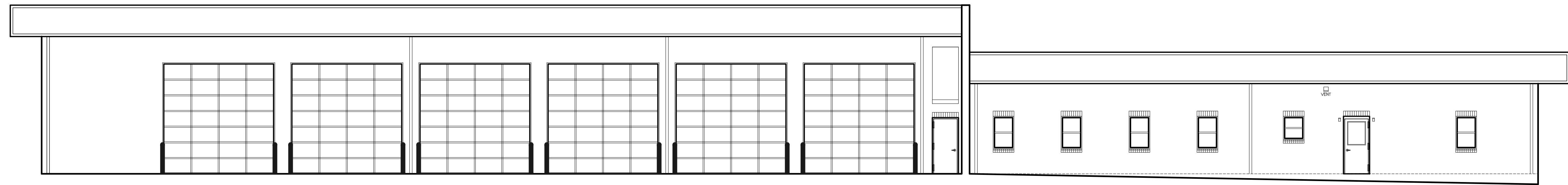
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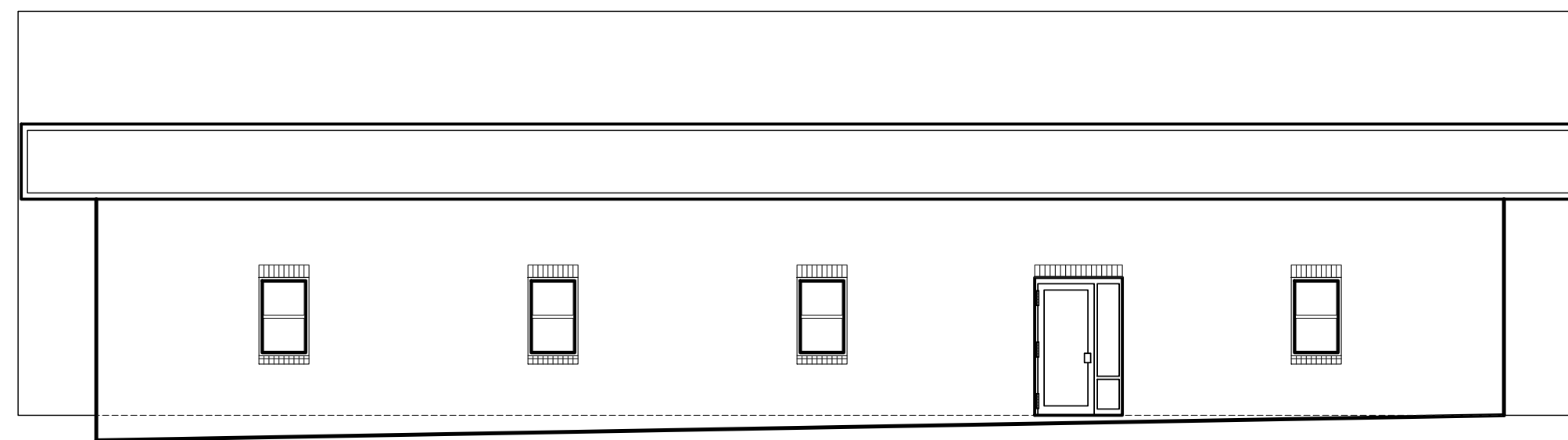
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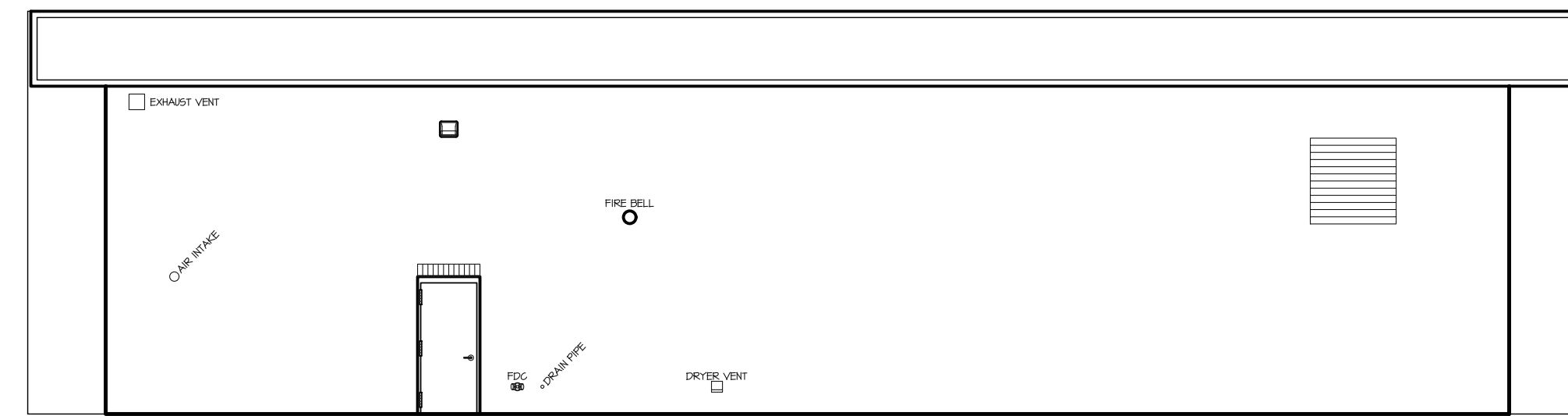
1 Front Elevation - Existing
 XI.1 1/8" = 1'-0"



2 Rear Elevation - Existing
 XI.1 1/8" = 1'-0"

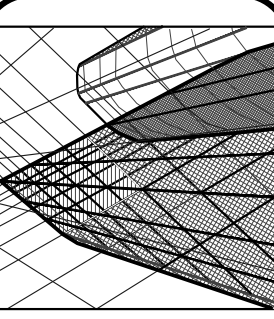


3 Left Elevation - Existing
 XI.1 1/8" = 1'-0"

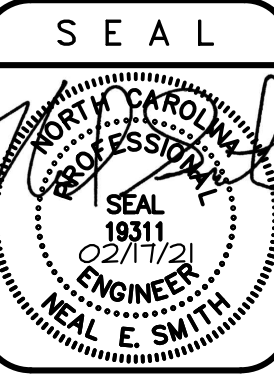


4 Right Elevation - Existing
 XI.1 1/8" = 1'-0"

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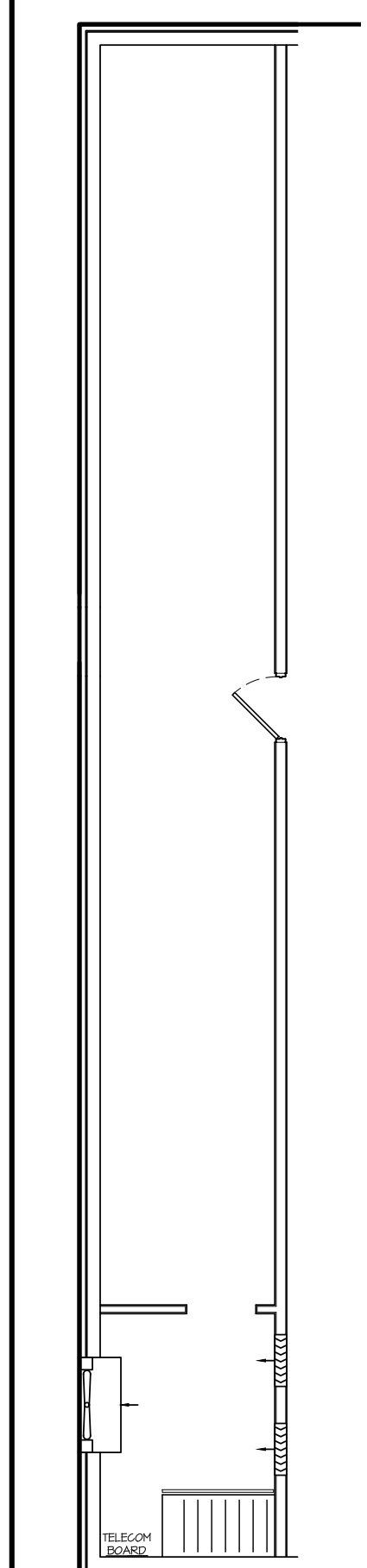
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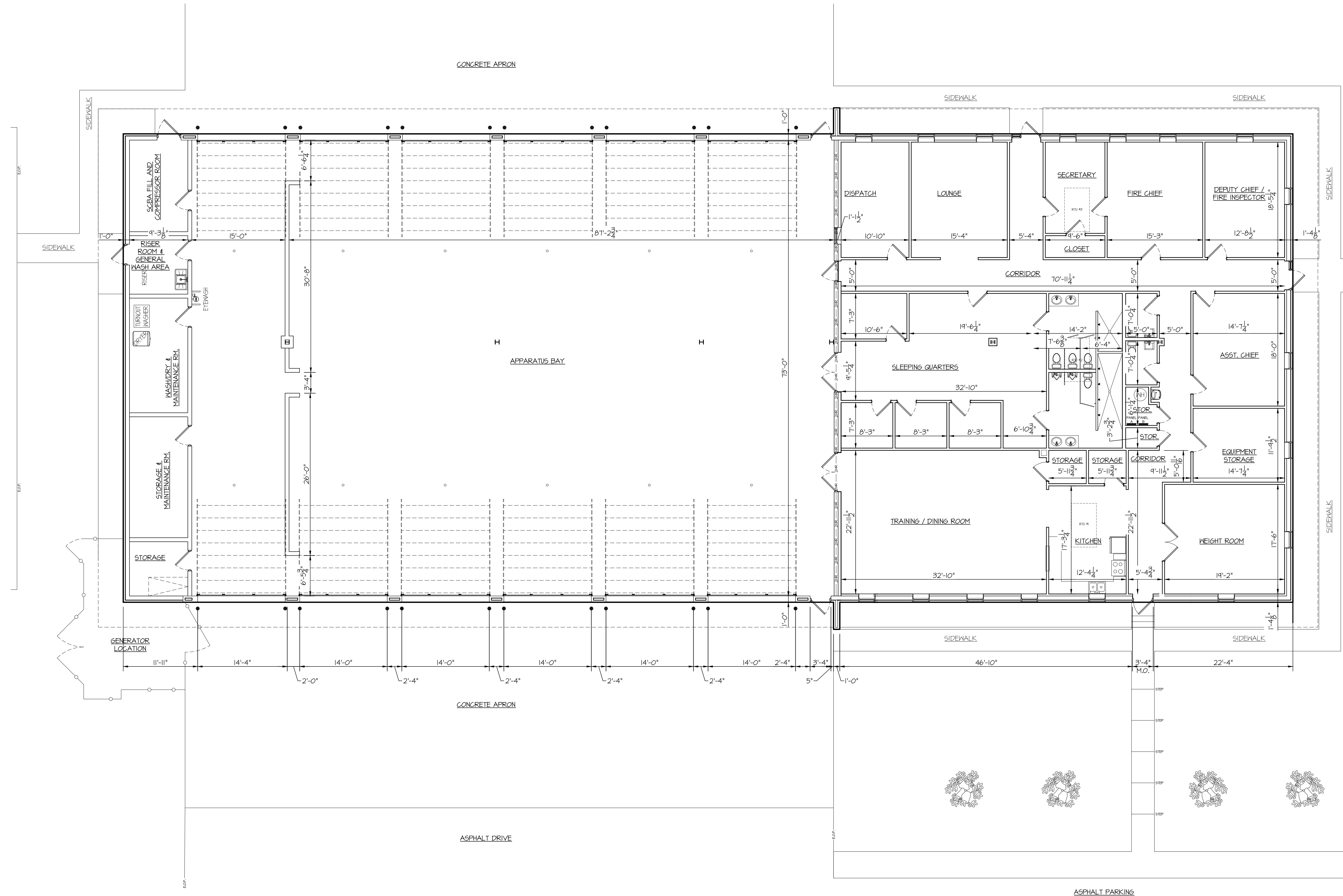
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Floor Plan
Ex. Mezz.
 1/8" = 1'-0"

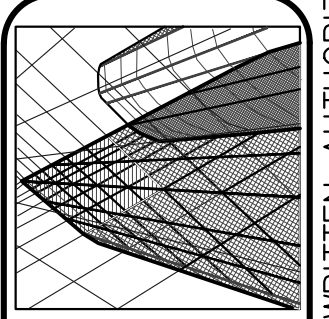


2
 X2.1 **Floor Plan - Existing**
 1/8" = 1'-0"

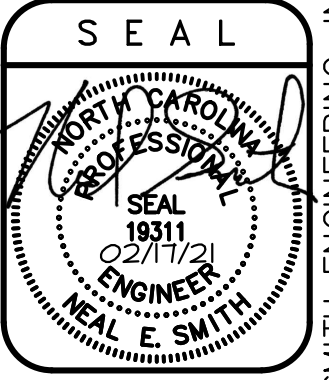


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 Angier, NC
 FLOOR PLAN - EXISTING

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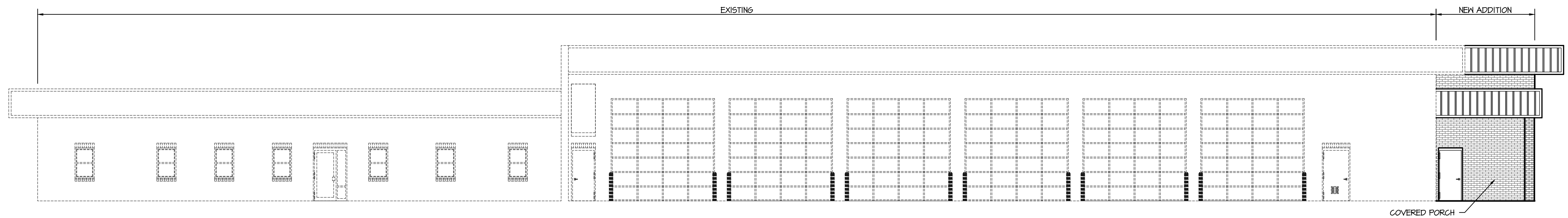
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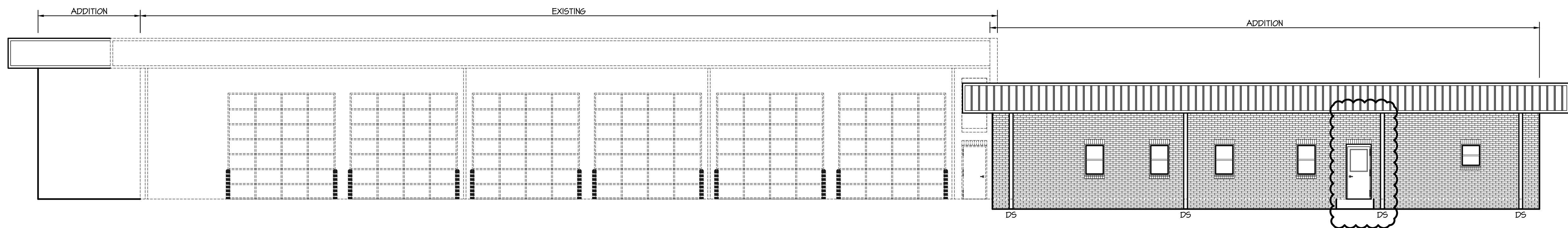
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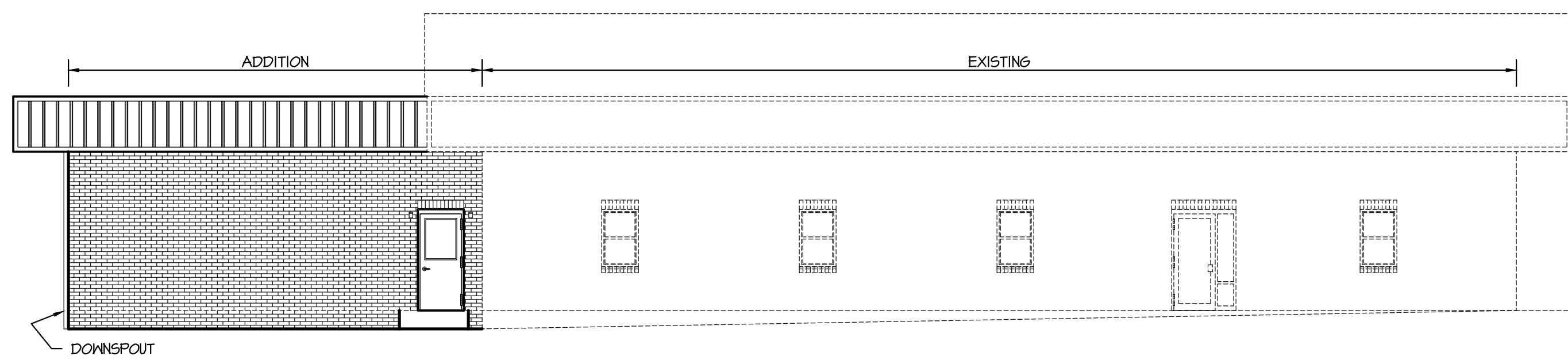
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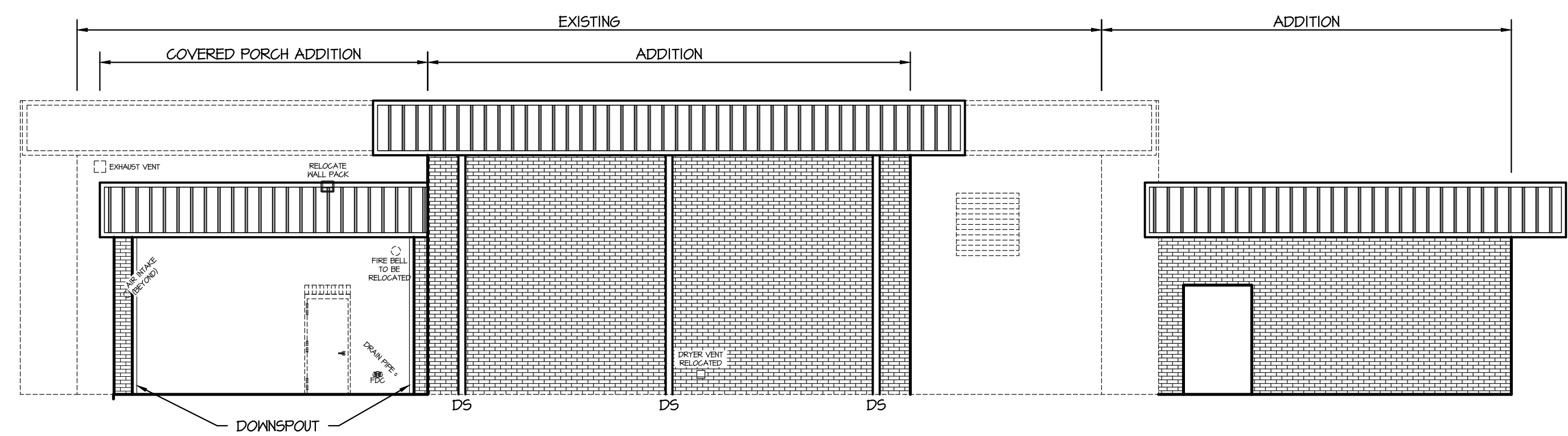
1 Front Elevation - Renovated
G1.1 1/8" = 1'-0"



2 Rear Elevation - Renovated
G1.1 1/8" = 1'-0"



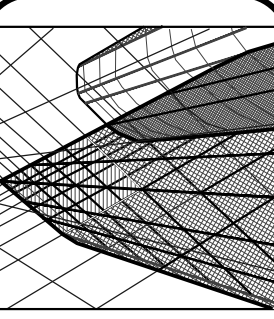
3 Left Elevation - Renovated
G1.1 1/8" = 1'-0"



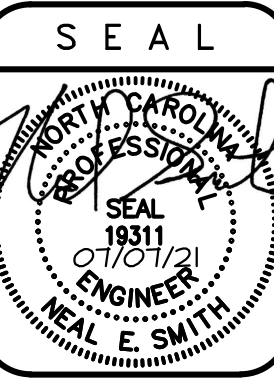
4 Right Elevation - Renovated
G1.1 1/8" = 1'-0"

ANGIER & BLACK RIVER FIRE DEPARTMENT
Angier, NC
EXTERIOR ELEVATIONS - RENOVATED

REVISIONS	DATE	BY



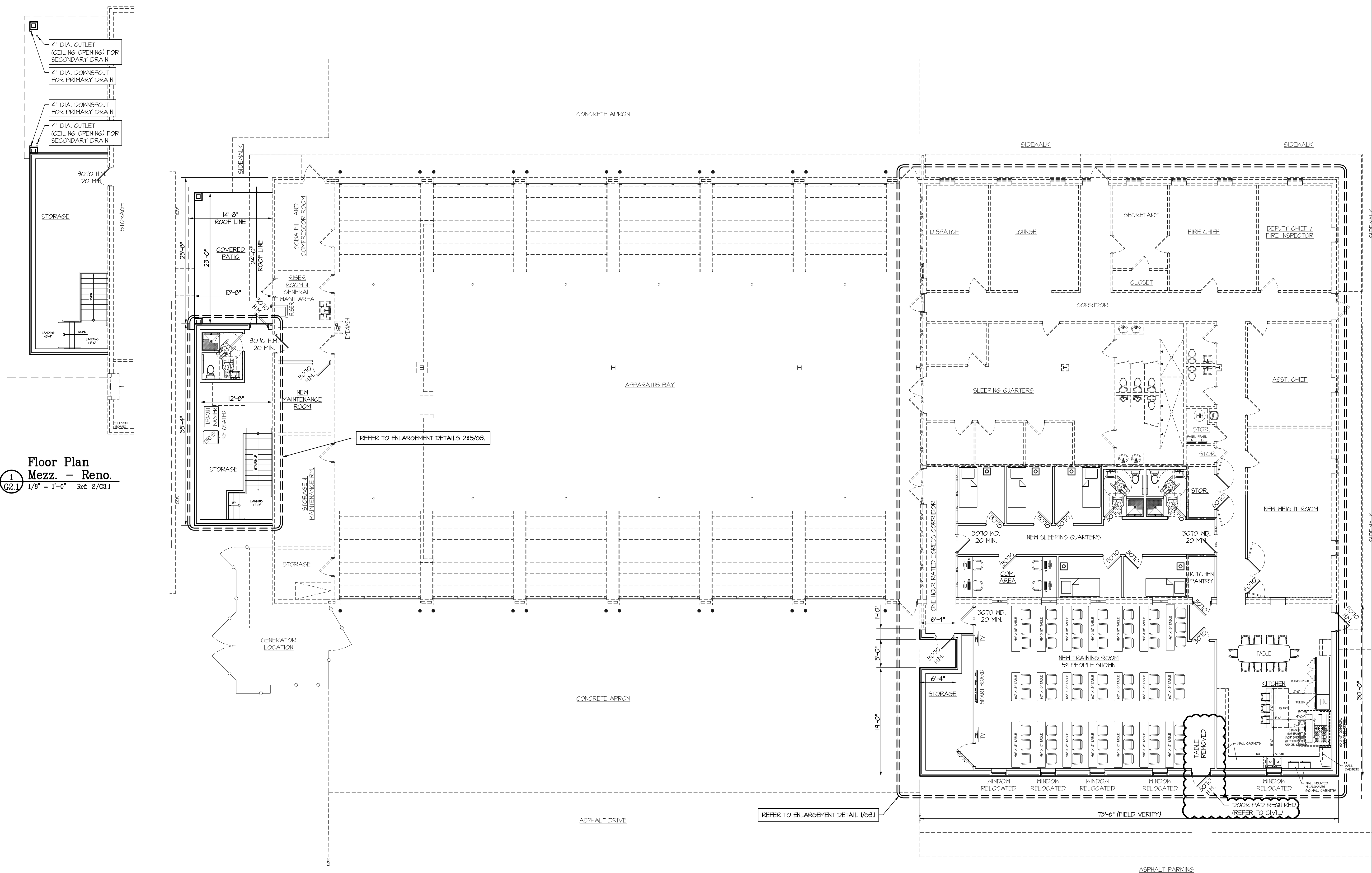
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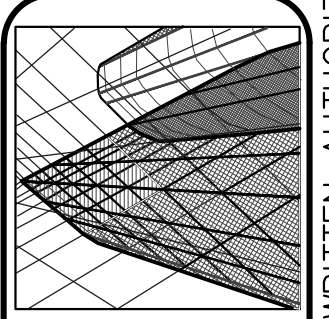
1 Floor Plan
Mezz. - Reno.
1/8" = 1'-0" Ref: 2/G3.1

2 Floor Plan - Renovated
1/8" = 1'-0"



ANGIER & BLACK RIVER FIRE DEPARTMENT
Angier, NC
FLOOR PLAN - RENOVATED

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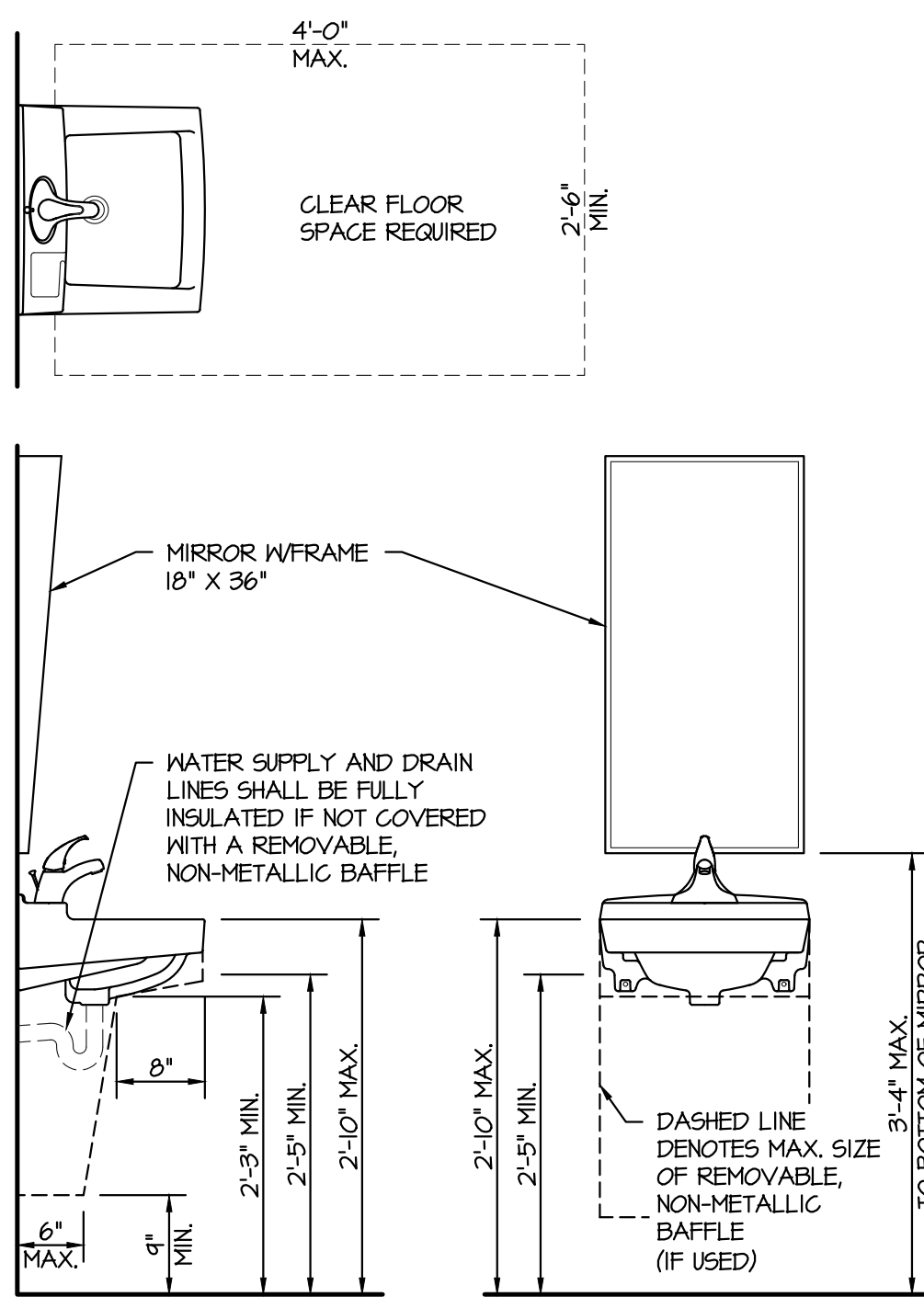


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NEAL E. SMITH
ENGINEER
NO. 19311
STATE OF NORTH CAROLINA

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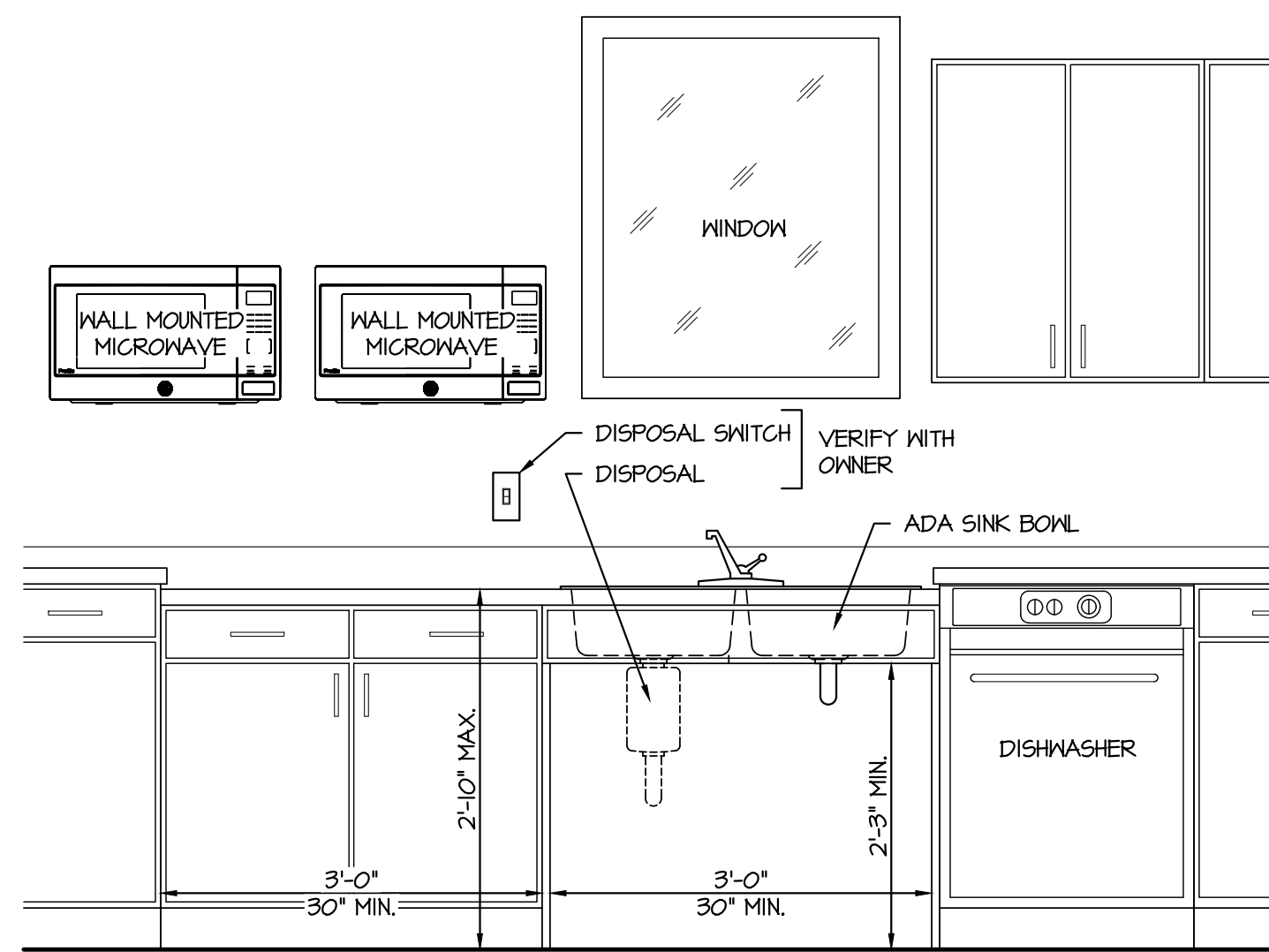
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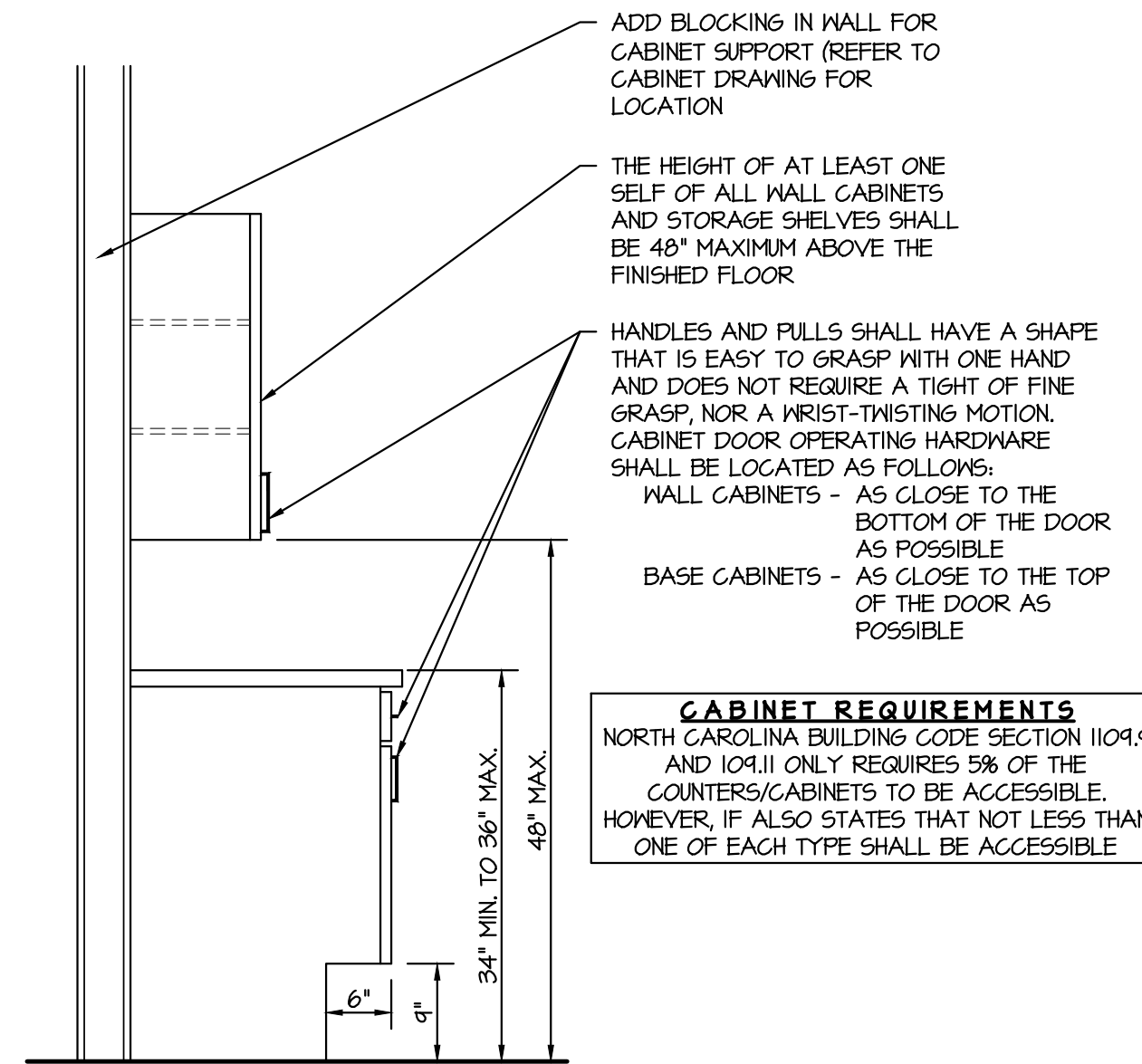
1 Wall Mounted Sink Detail

G4.1 3/4" = 1'-0"



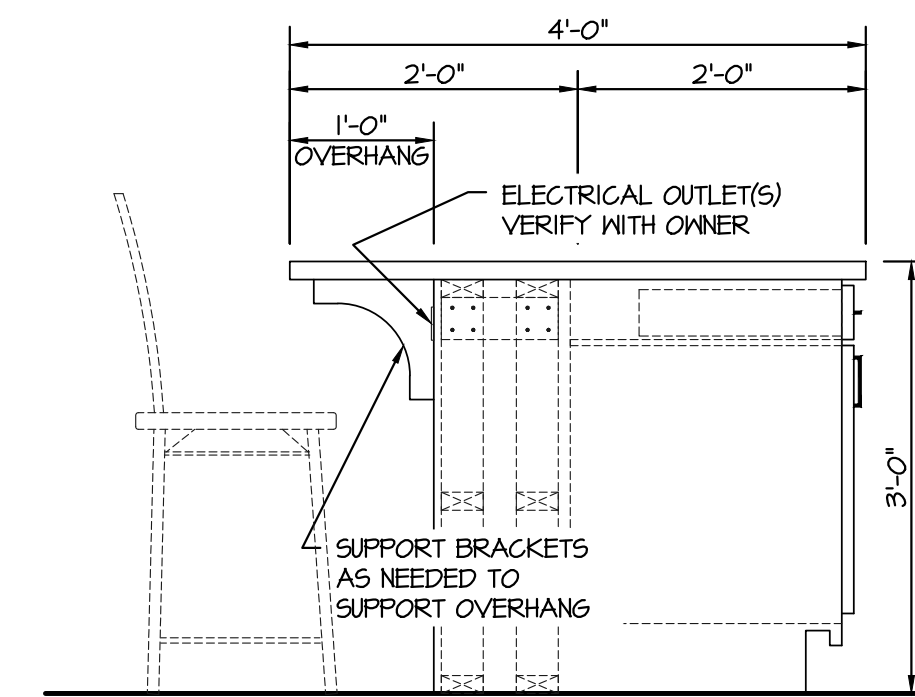
2 Kitchen Sink Detail

G4.1 3/4" = 1'-0"



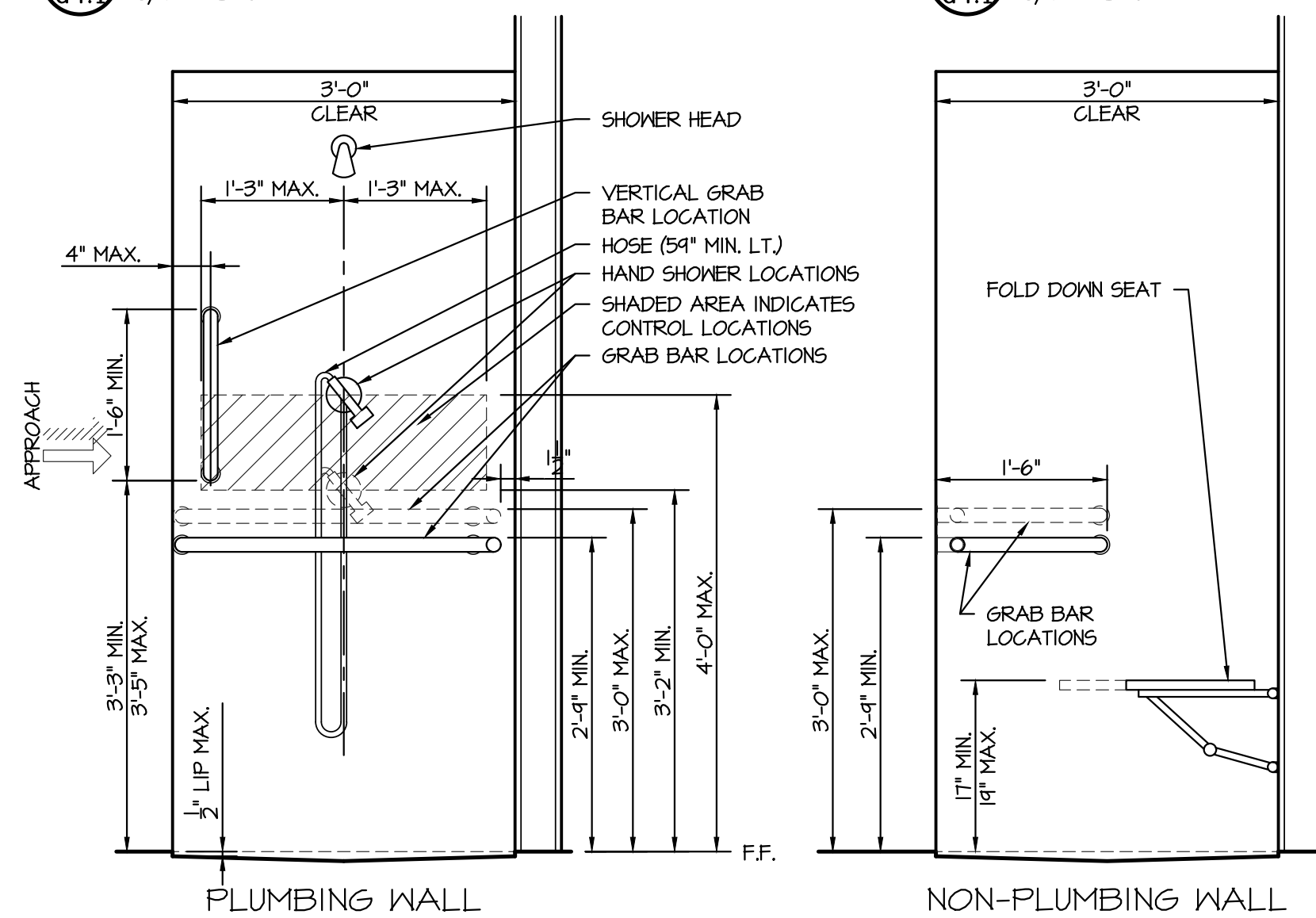
3 ADA Cabinet Detail

G4.1 3/4" = 1'-0"



4 Island Detail

G4.1 3/4" = 1'-0"



NOTES:

- REFER TO PLANS/PLUMBING SPECIFICATIONS FOR SPECIFIC SHOWER UNIT. UNIT IS TO BE COMPLETE WITH ALL ACCESSORIES TO FUNCTION ITS INTENDED USE.
- PROVIDE ADEQUATE BLOCKING WITHIN THE WALLS FOR ALL ITEMS. COORDINATE WITH SUPPLIER/MFG'S CUT SHEET.

5 ADA Shower Details

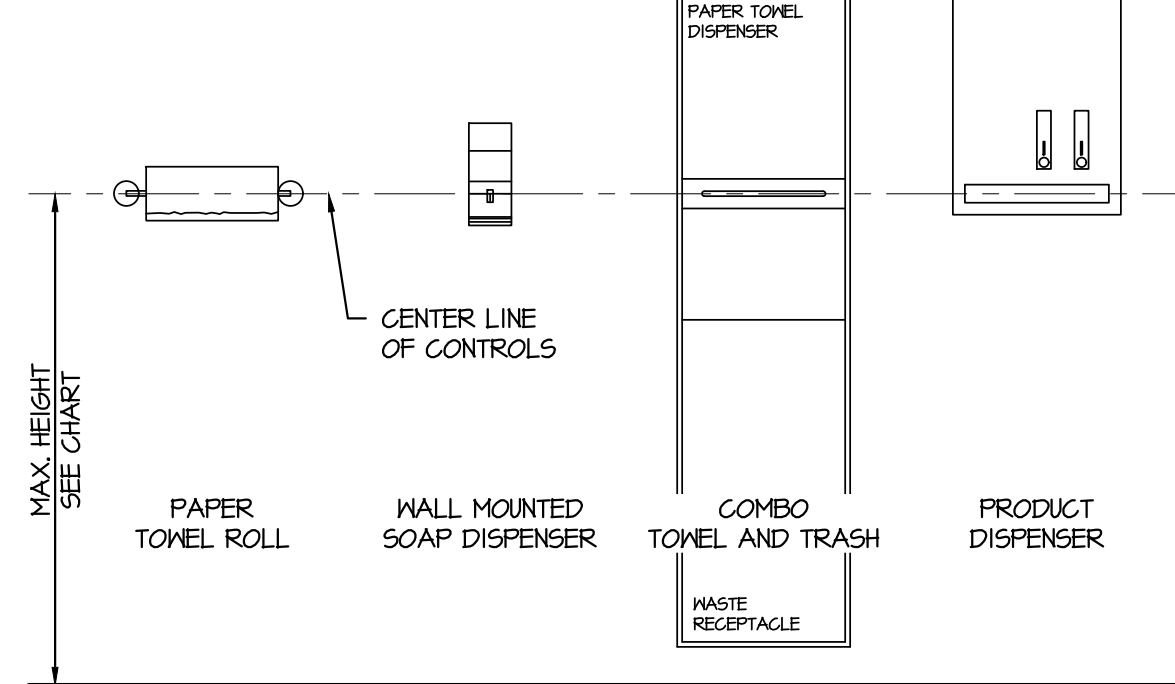
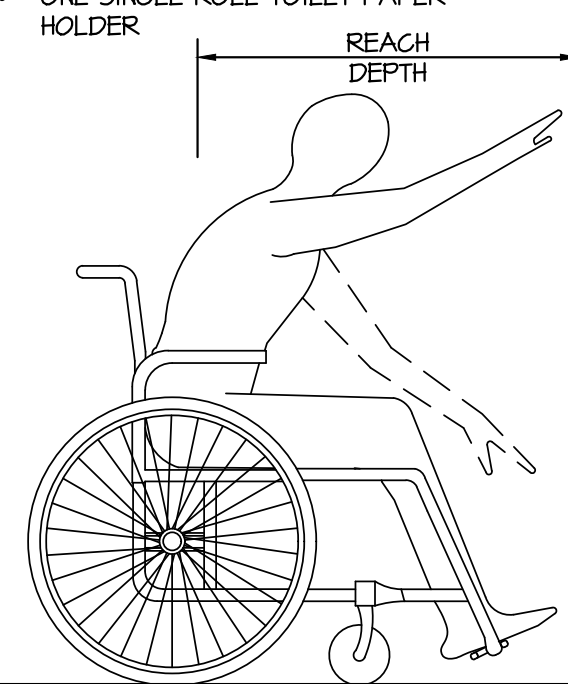
G4.1 3/4" = 1'-0"

IMPORTANT NOTES:

- G.C. TO VERIFY WITH OWNER TYPE OF FIXTURES TO BE INSTALLED AND WHERE.
- BASE SHALL INCLUDE THE FOLLOWING FOR EACH RESTROOM (ADA COMPLIANT):
 - ONE SOAP DISPENSER
 - ONE PAPER TOWEL HOLDER
 - ONE SINGLE ROLL TOILET PAPER HOLDER

RESTROOM ACCESSORIES MOUNTING HEIGHT

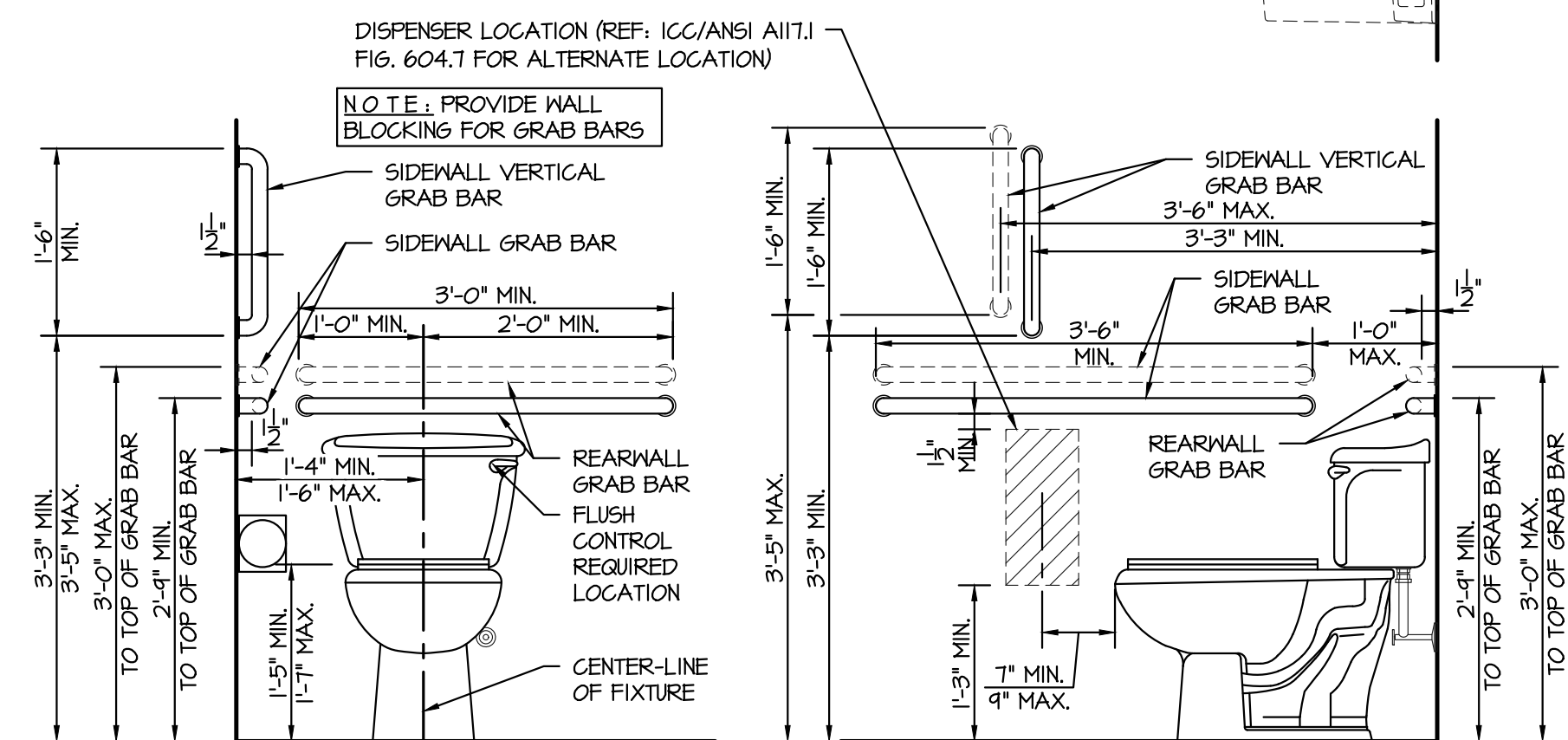
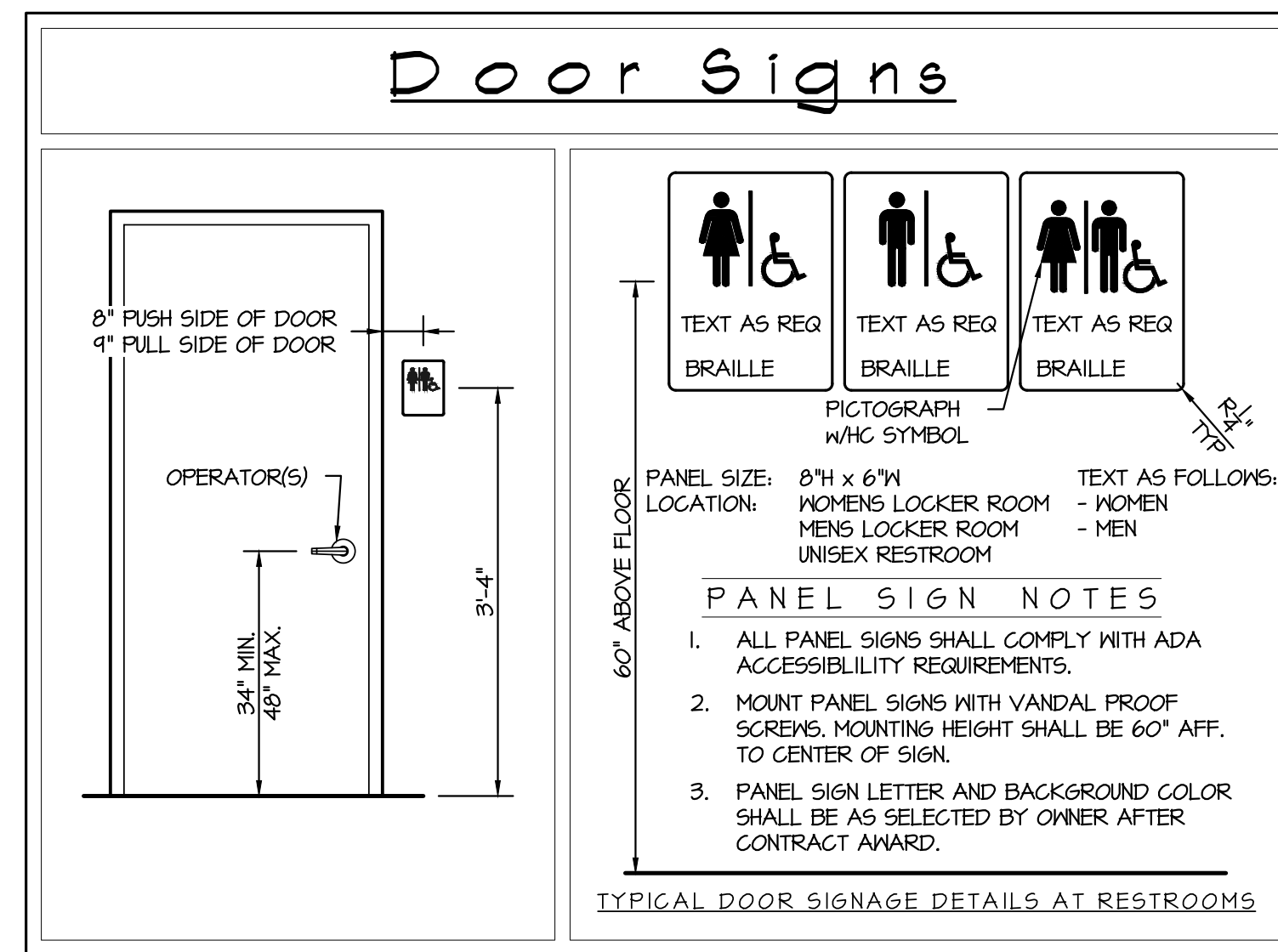
MAXIMUM REACH DEPTH	0.5 inch	2 inch	5 inch	6 inch	9 inch	11 inch
MAXIMUM REACH HEIGHT	48 inch	46 inch	42 inch	40 inch	36 inch	34 inch



6 Restroom Accessories

G4.1 3/4" = 1'-0"

Door Signs



7 Water Closet Details

G4.1 3/4" = 1'-0"

ANGIER & BLACK RIVER FIRE DEPARTMENT
Angier, NC
MISC. DETAILS

REVISIONS

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ENGINEER
19311
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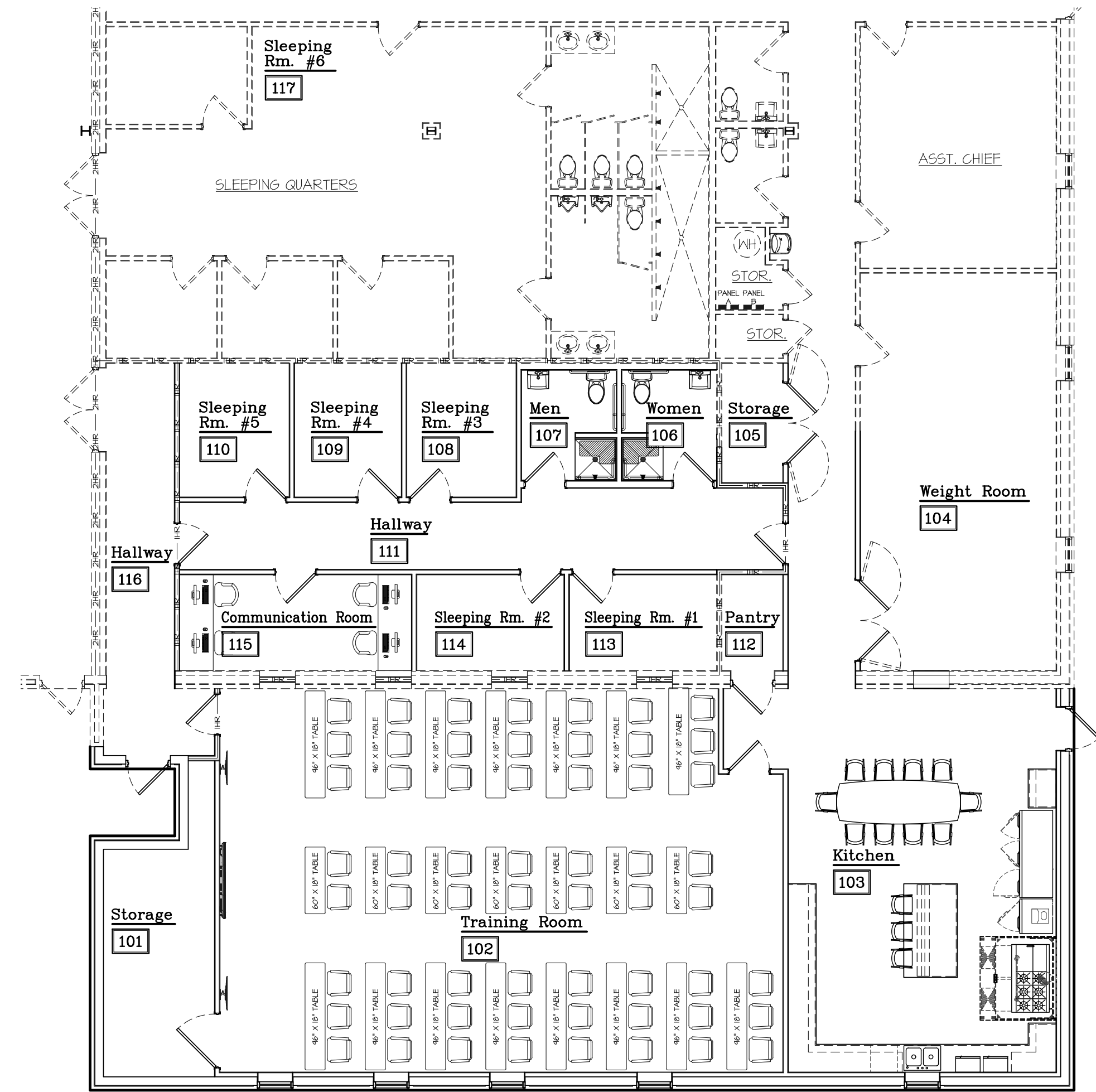
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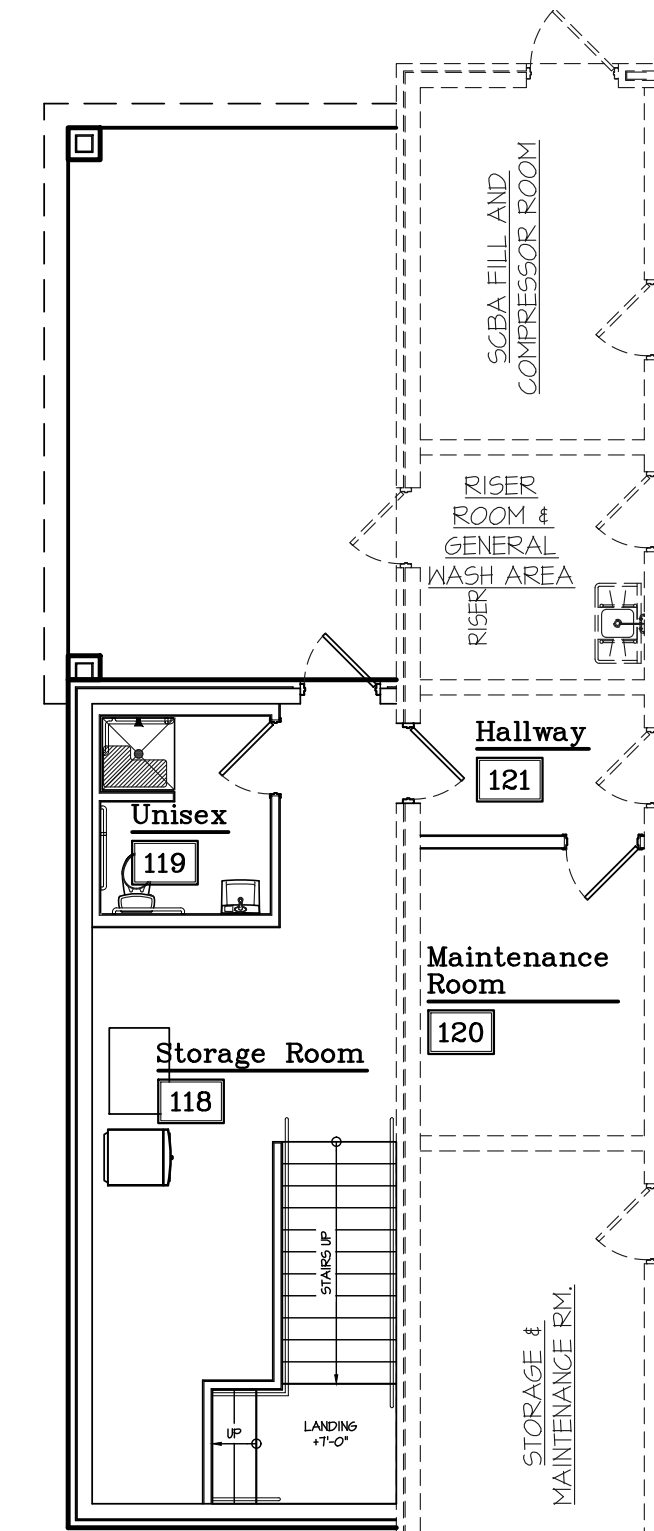
ROOM FINISH SCHEDULE										
MARK XXX	ROOM			WALLS			CEILING			REMARKS
	TITLE	FLOORING	BASE	MATERIAL	FINISH CLASS	WAINSCOT	MATERIAL	HEIGHT	FINISH CLASS	
101	STORAGE (TRAINING)	SEALED CONCRETE	4" VINYL	PAINTED CMU/GYPSUM	C	None	EXPOSED STRUCTURE	N/A	N/A	
102	TRAINING ROOM	CARPET	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	COMMERCIAL GRADE CARPET
103	KITCHEN	V.C.T.	4" VINYL	PAINTED GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS
104	WEIGHT ROOM	V.C.T.	4" VINYL	PAINTED GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS
105	STORAGE (MAIN)	SEALED CONCRETE	4" VINYL	PAINTED GYPSUM	C	None	EXPOSED STRUCTURE	N/A	N/A	
106	WOMEN RESTROOM	V.C.T.	4" VINYL	EPOXY PAINTED GYP.	C	None	2 X 2 ACOUSTICAL	9'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS - GREEN BOARD GYP. REQUIRED IN SHOWER AREA
107	MEN RESTROOM	V.C.T.	4" VINYL	EPOXY PAINTED GYP.	C	None	2 X 2 ACOUSTICAL	9'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS - GREEN BOARD GYP. REQUIRED IN SHOWER AREA
108	SLEEPING RM. #3	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
109	SLEEPING RM. #4	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
110	SLEEPING RM. #5	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
111	HALLWAY (SLEEPING)	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
112	PANTRY	V.C.T.	4" VINYL	PAINTED GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS
113	SLEEPING RM. #1	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
114	SLEEPING RM. #2	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
115	COMMUNICATIONS	V.C.T.	4" VINYL	PAINTED GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS
116	HALLWAY (EXIT)	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
117	SLEEPING RM. #6	V.C.T.	4" VINYL	PAINTED CMU/GYPSUM	C	None	2 X 2 ACOUSTICAL	9'-0"	C	
118	STORAGE (WASH)	SEALED CONCRETE	4" VINYL	EPOXY PAINTED CMU	C	None	EXPOSED STRUCTURE	N/A	N/A	DO NOT PAINT EXISTING BRICK WALL
119	UNISEX RESTROOM	V.C.T.	4" VINYL @ NEW WALL	EPOXY PAINTED CMU	C	None	2 X 2 ACOUSTICAL	8'-0"	C	VCT SHOULD BE SEALED IN ACCORDANCE TO MFG. RECOMMENDATIONS
120	MAINTENANCE ROOM	EXISTING	4" VINYL @ NEW WALL	EPOXY PAINTED CMU	C	None	EXPOSED STRUCTURE	N/A	N/A	CLEAN AND RE-PAINT EXISTING WALLS
121	HALLWAY (WASH)	EXISTING	4" VINYL @ NEW WALL	EPOXY PAINTED CMU	C	None	EXPOSED STRUCTURE	N/A	N/A	CLEAN AND RE-PAINT EXISTING WALLS
201	STORAGE	EXISTING	4" VINYL @ NEW WALL	EPOXY PAINTED CMU	C	None	EXPOSED STRUCTURE	N/A	N/A	DO NOT PAINT EXISTING BRICK WALL

ROOM FINISH NOTES

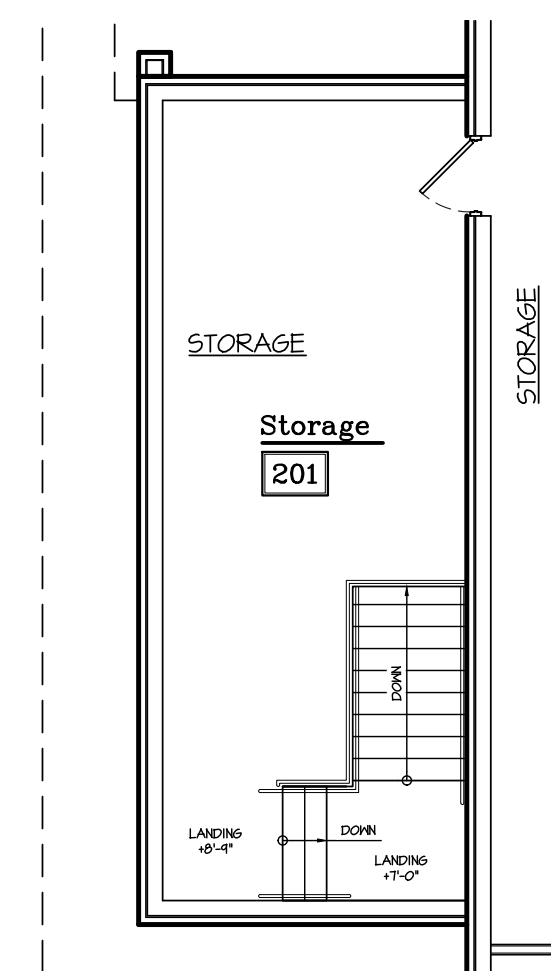
- Finish Class Information
 - Class B: Flame Spread 26-75; Smoke-development 0-450
 - Class C: Flame Spread 76-200; Smoke-development 0-450
 - For additional information regarding "Class", refer to ASTM E 84
- Floor tile shall be sealed after installation. Sealant shall in accordance to the tile mfg. recommendations.
- All exposed concrete shall be finished in accordance with all OSHA standards with regards to, but not limited to fall protection.



1 Finished Schedule Reference Floor Plan
1/8" = 1'-0"



2 Finished Schedule Reference Floor Plan
1/8" = 1'-0"

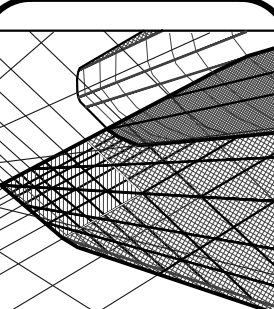


3 Finished Schedule Reference Floor Plan - Upper
1/8" = 1'-0"

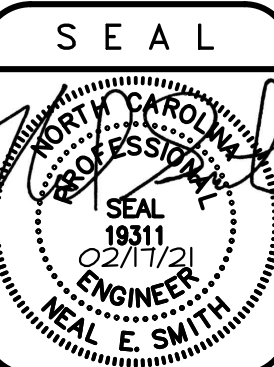
ANGIER & BLACK RIVER FIRE DEPARTMENT
Angier, NC

SCHEDULES - ROOM FINISH

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DRAWING KEY:
65.1

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DOOR SCHEDULE														
MARK (XXX)	DOOR					FRAME		AUTOMATIC CLOSURE REQUIRED	FENESTRATION		HM SET No.	FIRE RATING (MINUTES)	SEE DETAIL	REMARKS
	W	H	T	MATERIAL	TYPE	MATERIAL	TYPE		U VALUE	SHGC				
101	3'-0"	7'-0"	N/A	HALF GLASS	BRONZE STORE FRONT	BRONZE ALUMINUM	STORE FRONT	YES	0.33	0.35		N/A	1/65.3	
102	3'-0"	7'-0"	N/A	HALF GLASS	BRONZE STORE FRONT	BRONZE ALUMINUM	STORE FRONT	YES	0.33	0.35		N/A	2/65.3	
103	4'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
104	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		20	3/65.3	
105	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		20	3/65.3	
106	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
107	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
108	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
109	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		20	3/65.3	
110	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	4/65.3	PROVIDE AND OPTION FOR BI-FOLD DOORS INSTEAD. DOOR OPENING IS EXISTING.
111	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
112	(PR) 3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
113	(PR) 3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
114	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	YES	N/A	N/A		N/A	3/65.3	
115	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	YES	N/A	N/A		N/A	3/65.3	
116	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
117	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
118	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		N/A	3/65.3	
119	3'-0"	7'-0"	N/A	HALF GLASS	BRONZE STORE FRONT	BRONZE ALUMINUM	STORE FRONT	YES	0.33	0.35		N/A	1/65.3	
120														
120A														DOORS REMOVED
120B														
121	3'-0"	7'-0"	N/A	HOLLOW METAL	METAL	HOLLOW METAL	WELDED	YES	0.33	0.35		N/A	2/65.3	
122	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	YES	N/A	N/A		N/A	3/65.3	
123	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		20	3/65.3	
124	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	YES	N/A	N/A		N/A	3/65.3	
201	3'-0"	7'-0"	N/A	WOOD	STAINED TO MATCH EXISTING	HOLLOW METAL	WELDED	NO	N/A	N/A		20	3/65.3	

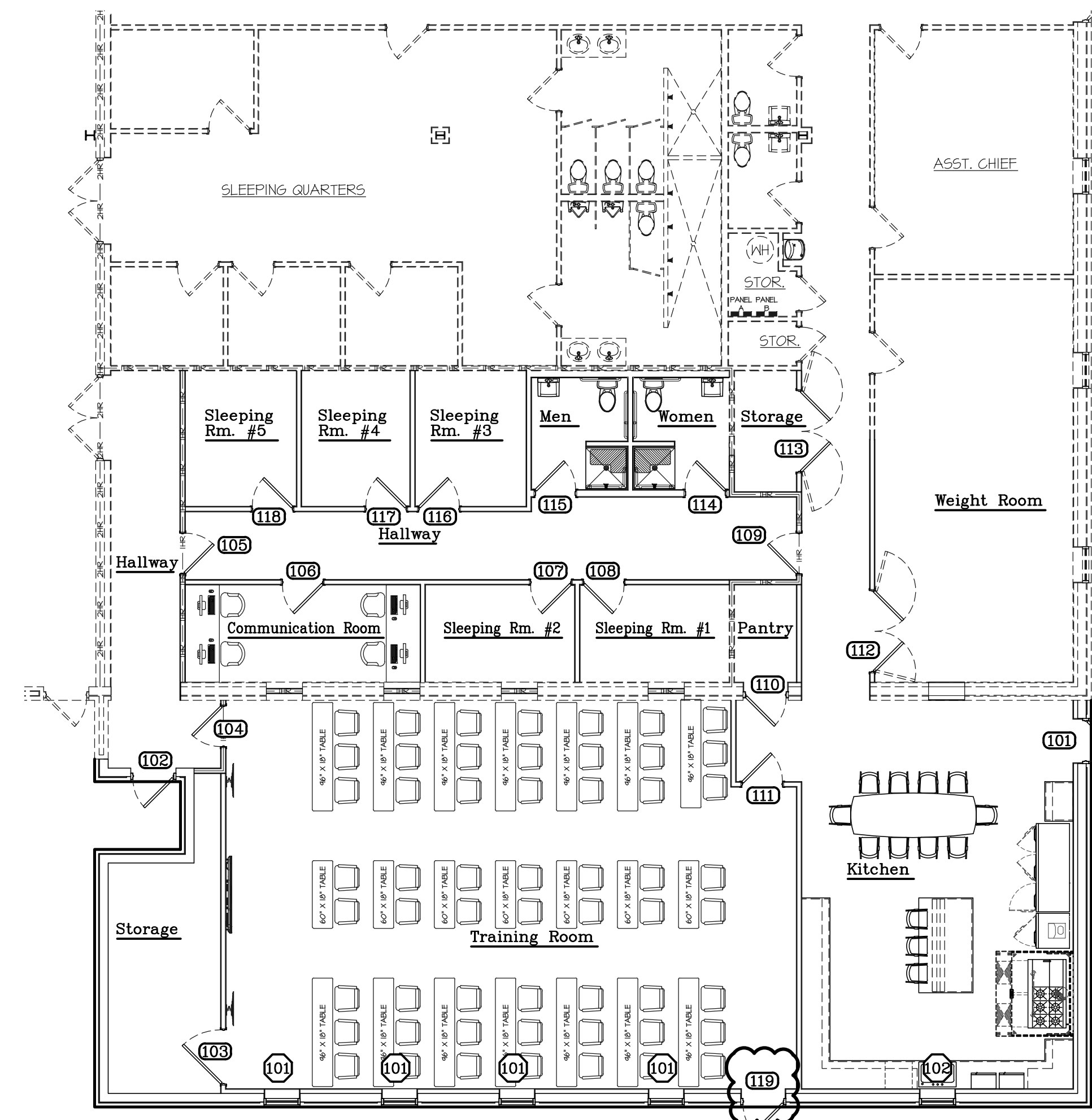
WINDOW SCHEDULE														
MARK (XXX)	WINDOW					FRAME		FENESTRATION		SEE DETAIL	REMARKS			
	W	H	HH	T	MATERIAL	TYPE	MATERIAL	TYPE	U VALUE			SHGC		
101	2'-8"	4'-2"	7'-4"	1/2"	Dbl. Glass	Ins.	Hollow Metal	Fixed	0.33	0.48		5/65.3		CAN REUSE THE EXISTING WINDOWS OR PROVIDE NEW WINDOWS (PROVIDE QUOTE FOR BOTH OPTIONS)
102	2'-8"	3'-0"	7'-4"	1/2"	Dbl. Glass	Ins.	Hollow Metal	Fixed	0.40	0.56		6/65.3		

Finish Schedule Notes:

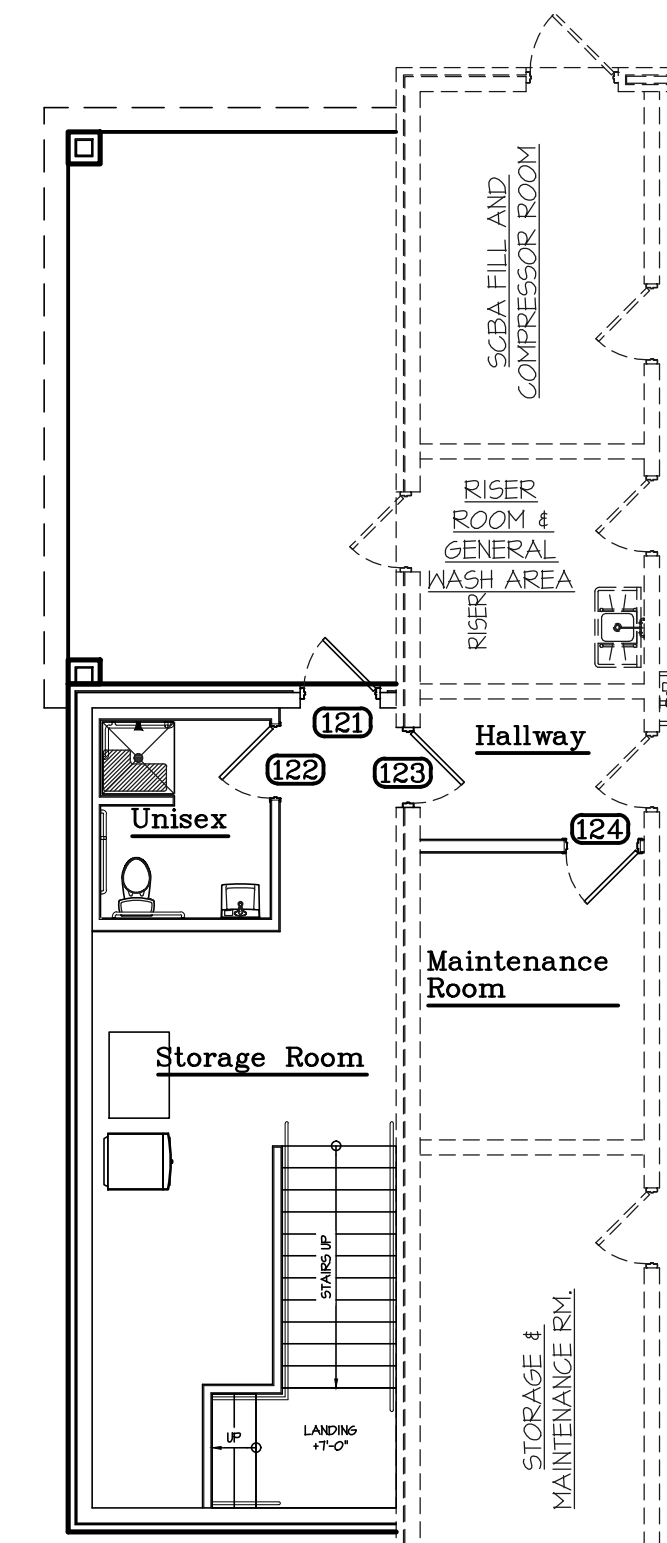
- If area above ceiling system is occupied by HVAC equipment, provide adequate access for service to said units.
- All interior walls shall extend to a height of 6" above finished ceiling height, except those having a fire resistance rating (See Plan For Location).
- All interior wall shall have 3-1/2" un-faced fiberglass sound, insulation (friction type).
- All items specified within these schedules and details (Ref: Sheet 65.3), shall be verify with owner before materials are ordered.
- All glass within exterior windows and doors shall be Low-E.

Door Hardware Notes:

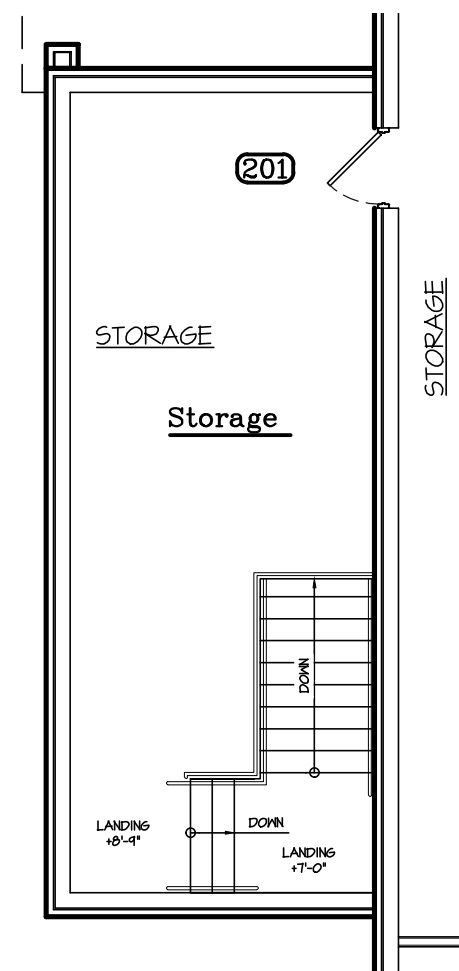
- Handles, pulls, latches, locks and other operable parts on doors shall have a shape that is easy to grasp with on hand and does not require tight grasping, pinching or twisting of the wrist to operate. Operable parts of such hardware shall be 34" minimum and 48" maximum above floor. (ANSI A117.1-03, Section 404.2.6)
- Door closer's shall be adjusted so that from an open position of 90 degrees, the time required to move the door to an open position of 12 degrees shall be 5 seconds minimum. (ANSI A117.1-03, Section 404.2.7.1)
- Coordinate lock sets with owner.



1 Finished Schedule Reference Floor Plan
1/8" = 1'-0"



2 Finished Schedule Reference Floor Plan
1/8" = 1'-0"



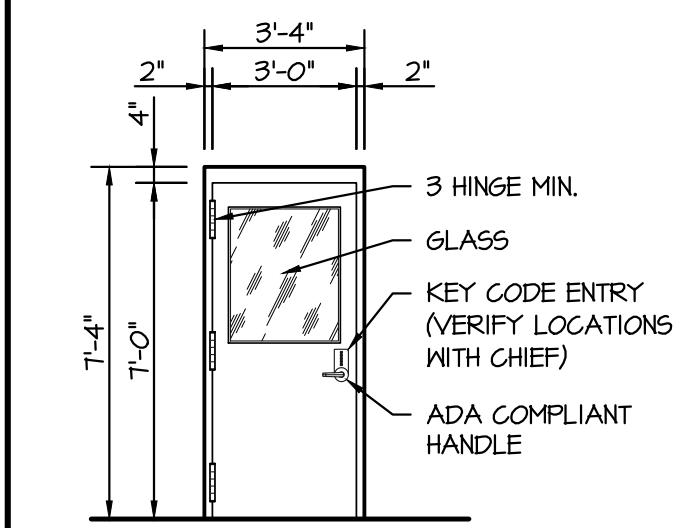
3 Finished Schedule Reference Floor Plan - Upper
1/8" = 1'-0"

ANGIER & BLACK RIVER FIRE DEPARTMENT
 Angier, NC
 SCHEDULES - DOOR & WINDOWS
 REVISIONS
 02/04/21
 07/07/21
 2
 REVISIONS

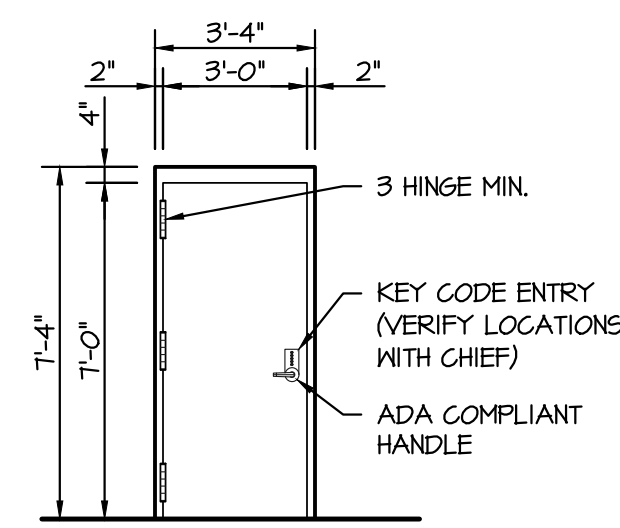
 Neal Smith Engineering, Inc.
 139 Peachtree Avenue - Suite C
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 Phone: (910) 695-8825
 Fax: (910) 695-8832
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 License No. C-1425
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 for
 CONSTRUCTION
 DRAWN BY:
 BKB
 SCALE:
 As Noted
 DATE:
 02/11/21
 JOB NUMBER:
 2000524
 DRAWING KEY:
 65.2

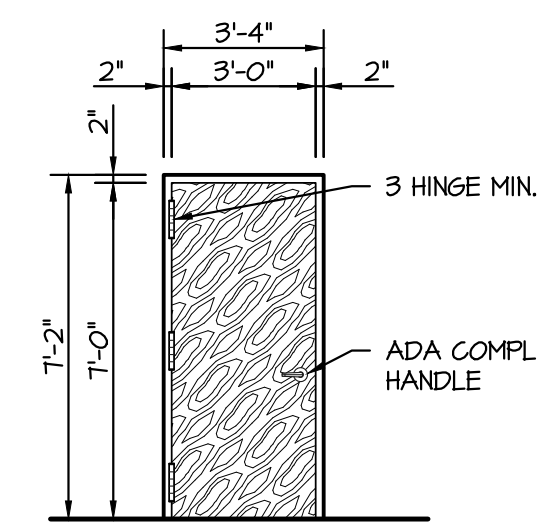
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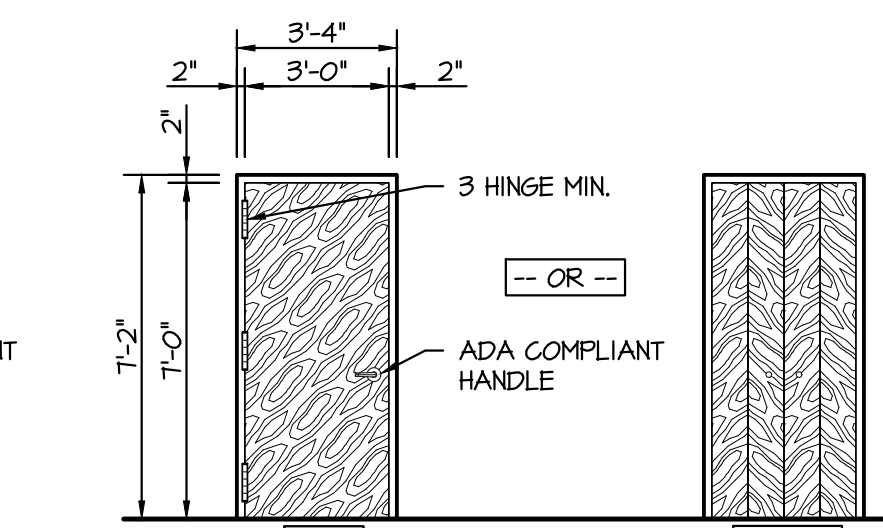
1 Door Detail
G5.3 1/2" = 1'-0"



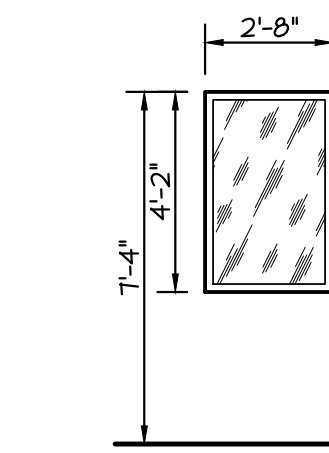
2 Door Detail
G5.3 1/2" = 1'-0"



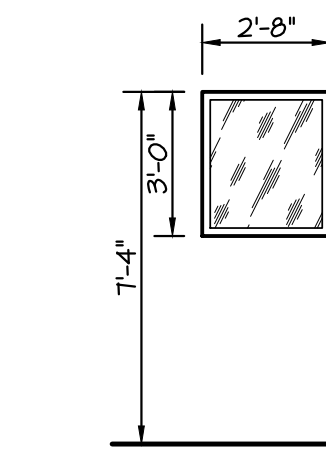
3 Door Detail
G5.3 1/2" = 1'-0"



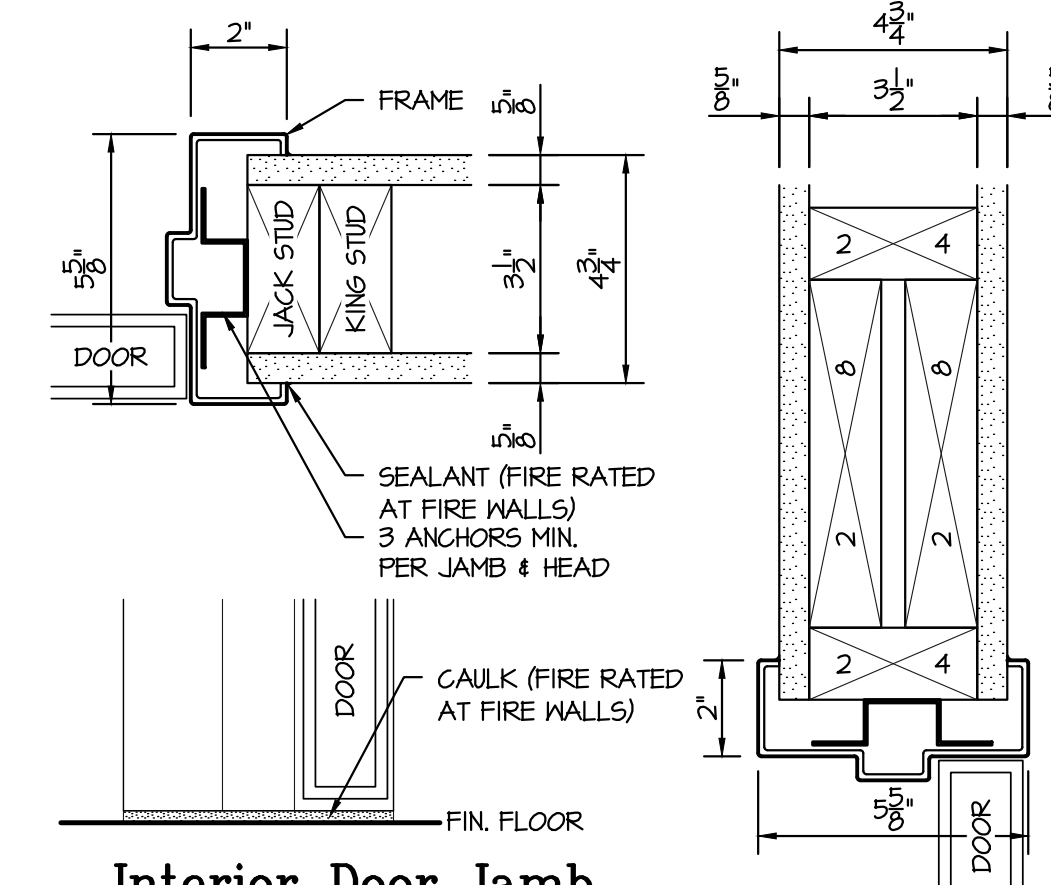
4 Door Detail
G5.3 1/2" = 1'-0"



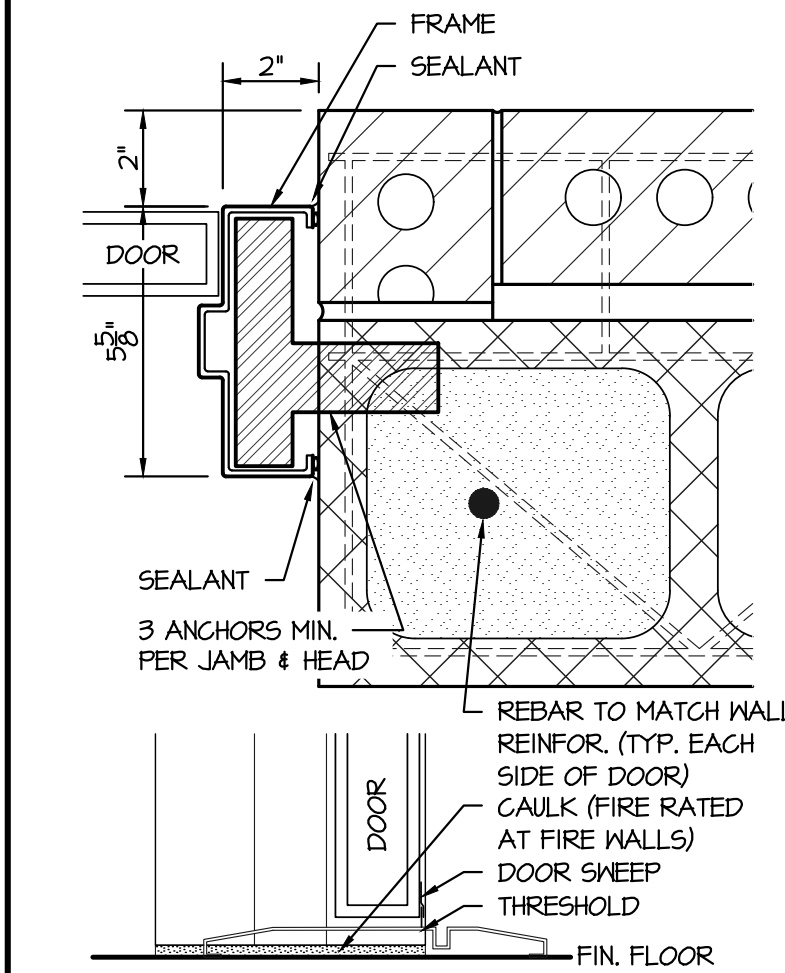
5 Window Detail
G5.3 1/2" = 1'-0"



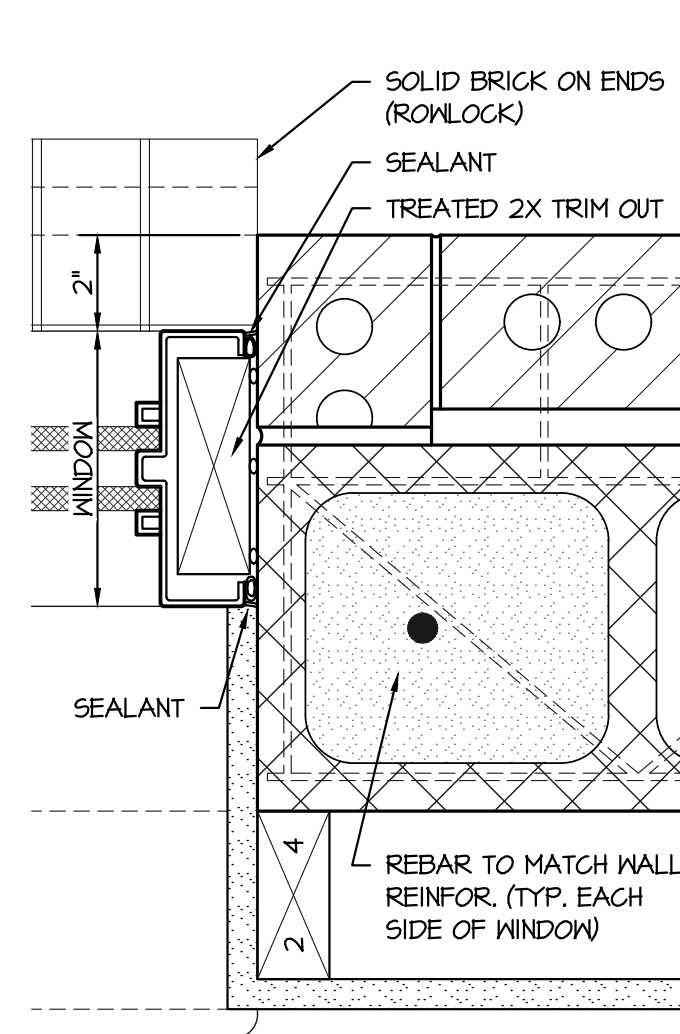
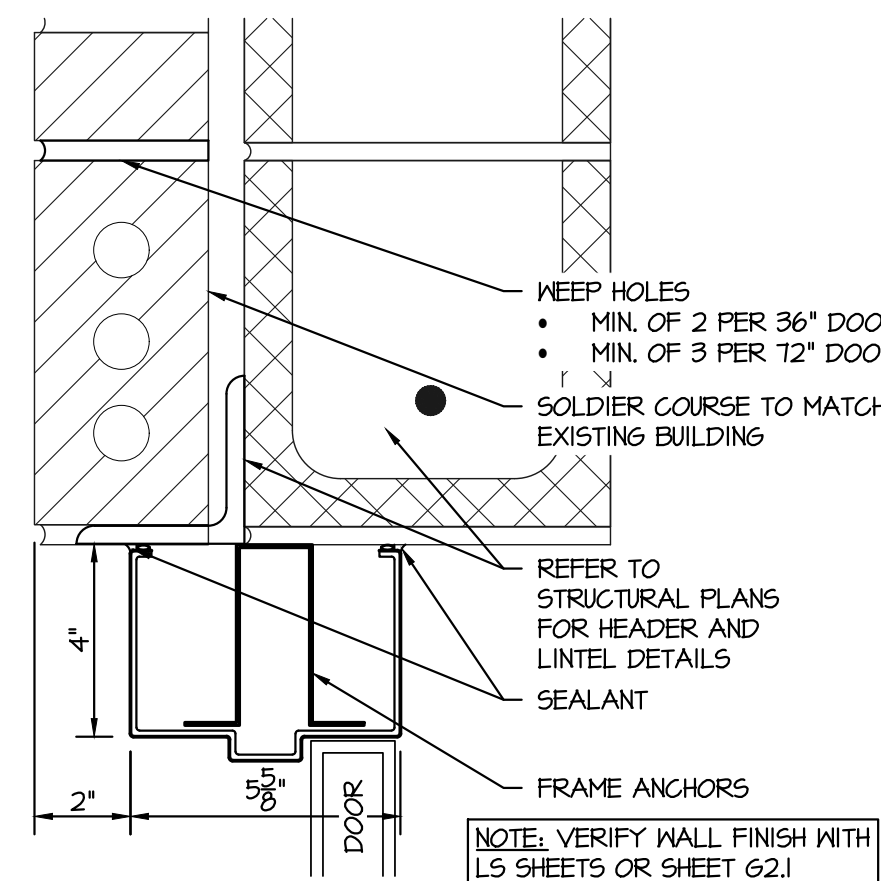
6 Window Detail
G5.3 1/2" = 1'-0"



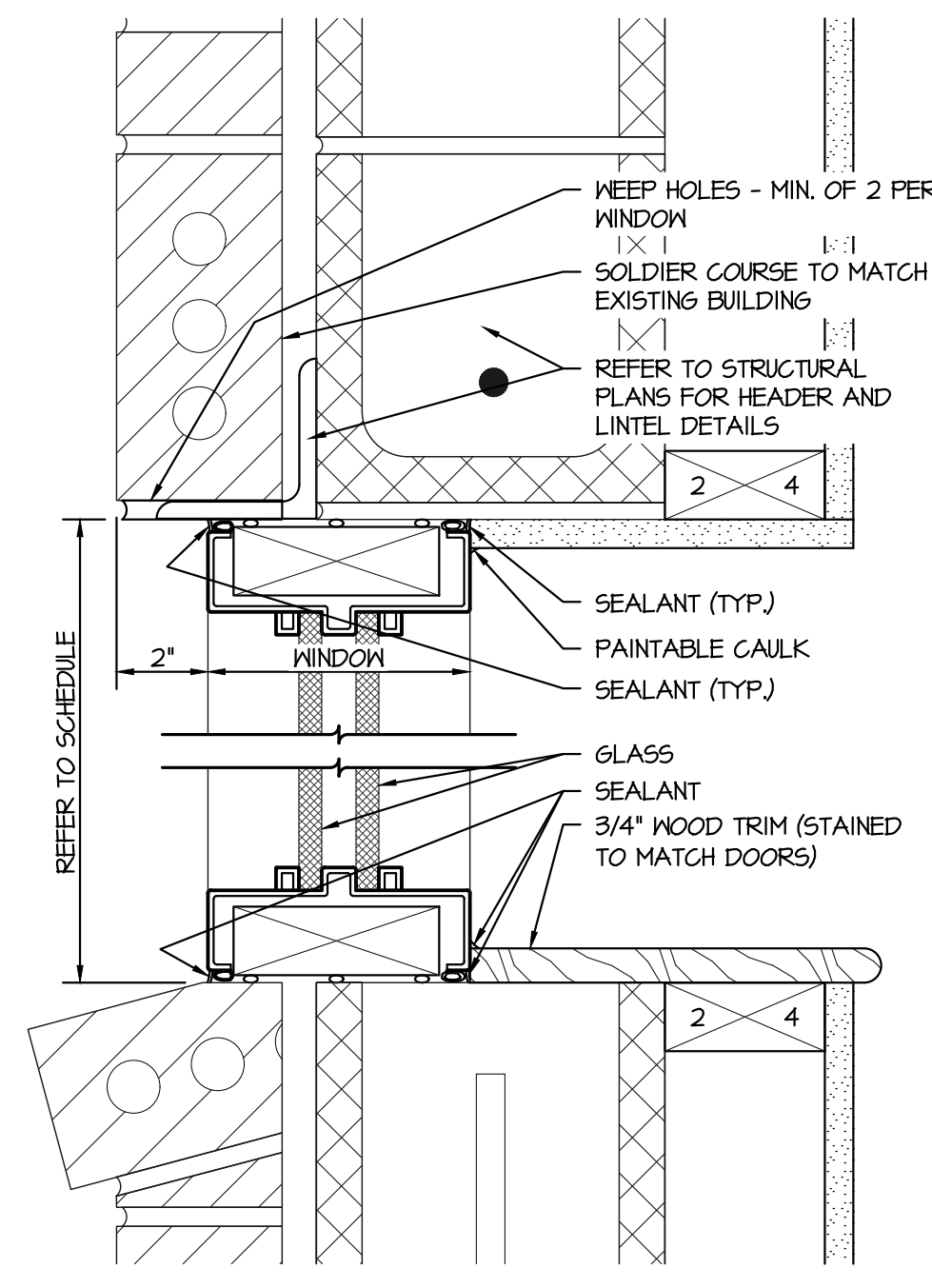
7 Interior Door Jamb, Head and Floor Details
G5.3 3" = 1'-0" Information in This Detail Shall Be Verified w/MFG.



8 Exterior Door Jamb, Head and Floor Details
G5.3 3" = 1'-0" Information in This Detail Shall Be Verified w/MFG.

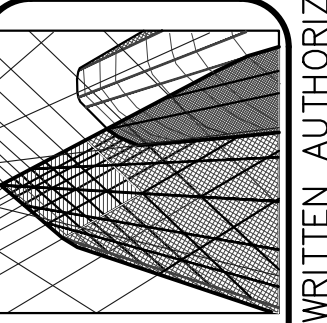


9 Exterior Window Jamb, Head and Floor Details
G5.3 3" = 1'-0" Information in This Detail Shall Be Verified w/MFG.

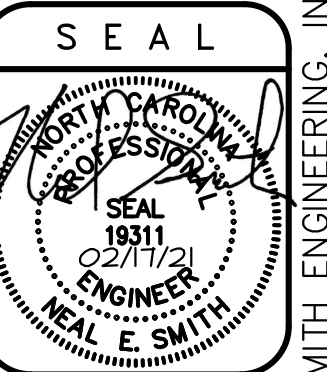


ANGIER & BLACK RIVER FIRE DEPARTMENT
Angier, NC
FINISH SCHEDULE DETAILS

NO.	REVISIONS



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for
CONSTRUCTION

DRAWN BY:
BKB
SCALE:
As Noted
DATE:
02/11/21
JOB NUMBER:
2000529
DRAWING KEY:
G5.3

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GENERAL NOTES FOR CONSTRUCTION

GENERAL STRUCTURAL NOTES:

- THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
- GOVERNING CODE: THE NORTH CAROLINA STATE BUILDING CODE - LATEST EDITION.
- SEE STRUCTURAL PLANS FOR DESIGN SOIL BEARING PRESSURE AND LIVE LOADS. LIVE LOADS REDUCED IN ACCORDANCE WITH THE GOVERNING CODE.
- MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ALL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

GENERAL STEEL NOTES:

- DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION LRFD OR ASD (LATEST EDITION) UNLESS OTHERWISE MODIFIED ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS.
- MATERIAL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED.
 - STRUCTURAL STEEL SHALL BE A36 STEEL.
 - HOLLOW STRUCTURAL SECTIONS SHALL BE A500 GRADE B OR C.
 - WELDING ELECTRODES SHALL BE AWS D11.1 E70XX.
 - BOLTS SHALL BE ASTM A325 HIGH STRENGTH BOLTS 3/4" DIAMETER UNLESS OTHERWISE NOTED.
 - ALL CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS.
- ALL SHOP CONNECTIONS SHALL BE WELDED OR MADE WITH HIGH STRENGTH BOLTS.
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D11.1.
- GUSSET PLATES SHALL BE 3/8" THICK MINIMUM UNLESS OTHERWISE NOTED. ALL CORNERS SHALL BE NEATLY CLIPPED IF THEY PROTRUDE.
- ALL VERTICAL BRACING AND KNEE BRACING SHALL BE ON COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
- ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE DESIGN ENGINEER AT NEAL SMITH ENGINEERING INC. THIS REVIEW IS FOR DESIGN CONTENT ONLY AND DOES NOT REMOVE RESPONSIBILITY FOR THE FABRICATOR OR THE ERECTOR TO PROVIDE MATERIAL IN ACCORDANCE WITH THESE PLANS.
- THE ERECTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS AND BRACING AS REQUIRED FOR STABILITY OF THE STRUCTURE UNTIL THE STRUCTURE IS COMPLETE.
- ALL STEEL SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP2 AND SHALL BE SHOP PRIME PAINTED MEETING OR EXCEEDING THE REQUIREMENTS OF FEDERAL SPECIFICATION TT-P-636D, TT-P-664C AND SSPC PAINT-25.
- ALL BEAM CONNECTIONS SHALL SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN AISC TABLES FOR ALLOWABLE LOADS ON BEAMS FOR THE GIVEN SHAPE, SPAN, AND STEEL SPECIFIED. UNLESS LOADS INDICATE OTHERWISE.
- STAIRS AND LADDERS SHALL COMPLY WITH THE DESIGN DRAWINGS AND SHALL BE SHOP ASSEMBLED WHERE SHIPPING AND ERECTION WILL PERMIT.
- HANDRAILS AND HANDRAIL POSTS SHALL BE SCHEDULE 1-1/2" 40 STEEL PIPE UNLESS OTHERWISE NOTED.
- ALL GRATING SHALL BE TYPE W-19, BEARING BARS ARE TO BE 3/4" X 1/8", CROSS BARS SPACED AT 4" O.C. AS SPECIFIED BY AISC/MANM M66 531-43.

STRUCTURAL MASONRY:

- MASONRY MATERIALS:
 - HOLLOW AND SOLID LOAD BEARING CONCRETE MASONRY UNITS - ASTM C90 - TYPE I - NORMAL WEIGHT. MINIMUM COMPRESSIVE STRESS 1700 PSI.
 - CONCRETE BRICK - ASTM C55 GRADE N1.
 - CLAY BUILDING BRICK - ASTM C216 GRADE 5M.
- MORTAR:
 - ALL MASONRY ABOVE GRADE - ASTM C270 TYPE S.
 - ALL MASONRY BELOW GRADE - ASTM C270 TYPE M.
- COARSE MASONRY GROUT: SEE CONCRETE REQUIREMENTS IN REINFORCED CONCRETE GENERAL NOTES.
- MASONRY REINFORCEMENT:
 - HORIZONTAL JOINT REINFORCEMENT: # 6A DEFORMED WIRE, LADDER TYPE REINFORCEMENT.
 - IN EVERY SECOND BLOCK COURSE, FULL HEIGHT, AND WHERE SHOWN ON THE DRAWINGS.
 - N FIRST BED JOINT ABOVE AND BELOW OPENINGS EXTENDING 24" BEYOND OPENING.
 - # 4 REINFORCEMENT A FULL WIDTH AT CORNERS AND INTERSECTIONS.
- BEARING POINTS:
 - PROVIDE 3 COURSES X 24" WIDE SOLID OR GROUTED SOLID MASONRY AT BEAM BEARING POINTS.
 - PROVIDE 2 COURSES X 16" WIDE SOLID OR GROUTED SOLID MASONRY AT JOIST AND LINTEL BEARING POINTS.
- REINFORCEMENT BARS:
 - INSTALL REINFORCING BARS IN SIZES SHOWN ON DRAWINGS ACCURATELY IN LOCATIONS SHOWN.
 - GROUT BLOCK WITH COARSE MASONRY GROUT VIBRATED IN PLACE TO FILL ALL VOIDS AND INTERSTICES. FOLLOW RECOMMENDATIONS OF NCMATEK NO. 23A.

REINFORCED CONCRETE:

- SPECIFICATIONS AND STANDARDS: UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF BARS AND CONCRETE SHALL BE GOVERNED BY THE LATEST REVISIONS OF:
 - ACI 301, ACI 318, AND ACI 319
 - CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS.
 - ACI 306 AND ACI 305 FOR WINTER AND HOT WEATHER CONCRETING, RESPECTIVELY. THE CONTRACTOR SHALL AT ALL TIMES HAVE A COPY OF THE RELEVANT SPECIFICATIONS QUOTED ABOVE ON THE SITE AND THE SUPERVISORY PERSONNEL SHALL BE THOROUGHLY FAMILIAR WITH THE CONTENTS THEREOF.
- CONTINGENCIES:
 - PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR EARTH FILL DUE TO ACCIDENTAL OVER EXCAVATION OR SOFT SPOTS.
- CONCRETE REQUIREMENTS AND LOCATION IN JOB:

CLASS	LOCATION	F _c	REQUIREMENTS
I.	FOOTINGS, PIERS AND ALL INTERIOR CONCRETE NOT OTHERWISE NOTED	3,000psi	
II.	EXTERIOR CONCRETE	3,000psi	5% ± 1% AIR
III.	INTERIOR SLABS-ON-GRADE AND SLABS-ON-METAL DECK	3,000psi	3" SLUMP; 3/8" MAX AGG.
IV.	MASONRY GROUT	3,000psi	8" SLUMP
V.	EARTH		98% PROCTOR

SUBMIT CONCRETE MIXES FOR APPROVAL IN ACCORDANCE WITH ACI 301 BEFORE PLACING ANY CONCRETE. SUBMIT SOILS REPORT VERIFYING MINIMUM SOIL BEARING TO BE 2,000 PSF.

- REINFORCING REQUIREMENTS:
 - BARS: ASTM A615, A616, A617 - GRADE 60.
 - WELDED WIRE FABRIC: ASTM A185.
 - STEEL FIBER: ASTM A820, TYPE I.
- FOOTINGS:
 - DOWELS IN FOOTINGS TO MATCH VERTICAL WALL REINFORCING.
 - BEND ALL BARS 24 DIAMETERS AROUND CORNERS OF WALL AND FOOTINGS. BARS AT THE INSIDE FACE OF THE CORNER SHALL BE CONTINUED ACROSS TO THE OUTSIDE AND THEN BENT.
- SLABS:
 - IF NO OTHER REINFORCING IS SHOWN IN A SLAB ON GRADE, PROVIDE 6X6-#14 C #14 WWF AT MID-THICKNESS OF SLAB.
- SPLICES:
 - NO SPLICES IN BEAM, JOIST, OR SLAB STEEL UNLESS SPECIFICALLY SHOWN OTHERWISE.
 - COMPRESSION SPLICES: LAP 30 DIAMETERS.
 - TENSION SPLICES, WHEN PERMITTED. LAP IN ACCORDANCE WITH THE ACI CODE.
 - LAP WELDED WIRE FABRIC 1 SPACE + 2" AT ALL EDGES AND ENDS OF SHEET.
- MISCELLANEOUS:
 - DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL BOTH ADJACENT FLOOR SLABS ARE IN PLACE OR WHERE FILL IS ON BOTH SIDES OF A WALL, BRING THE FILL UP UNIFORMLY.
 - CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
 - PROVIDE ONE #4 X 3'-0" DIAGONAL REINFORCING BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS OF SLABS ON GRADE OR SLABS ON METAL DECK.
 - PROVIDE SLAB BOLSTERS TO CORRECTLY LOCATE WIRE MESH @ MID-DEPTH OF CONCRETE SLABS ON METAL DECK.

STEEL BAR JOIST - "K" SERIES:

- END SUPPORTS:
 - MASONRY AND CONCRETE
 - JOIST SHALL EXTEND A DISTANCE NOT LESS THAN FOUR INCHES OVER THE MASONRY OR CONCRETE SUPPORT AND BE ANCHORED TO THE STEEL BEARING PLATE.
 - THE PLATE SHALL BE LOCATED NOT MORE THAN 1/2 INCH FROM THE FACE OF THE WALL AND SHALL BE NOT LESS THAN SIX INCHES WIDE PERPENDICULAR TO THE JOIST LENGTH OF THE JOIST.
 - STEEL
 - JOIST SHALL EXTEND A DISTANCE OF NOT LESS THAN 2-1/2 INCHES OVER THE STEEL SUPPORTS.
- END ANCHORAGE:
 - MASONRY AND CONCRETE
 - JOIST RESTING ON STEEL BEARING PLATES ON MASONRY OR STRUCTURAL CONCRETE SHALL BE ATTACHED THERETO WITH A MINIMUM OF TWO 1/8 INCH FILLET WELDS ONE INCH LONG, OR WITH TWO 1/2 INCH BOLTS, OR WITH THE COMBINATION OF ONE 1/2 INCH BOLT AND ONE 1/8 INCH FILLET WELD ONE INCH LONG.
 - STEEL
 - JOIST RESTING ON STEEL SUPPORTS SHALL BE ATTACHED THERETO WITH A MINIMUM OF TWO 1/8 INCH FILLET WELDS ONE INCH LONG, OR WITH TWO 1/2 INCH BOLTS, OR WITH THE COMBINATION OF ONE 1/2 INCH BOLT AND ONE 1/8 INCH FILLET WELD ONE INCH LONG.
 - IN STEEL FRAMES, WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOIST AT COLUMN LINES SHALL BE FIELD BOLTED AT THE COLUMNS TO PROVIDED LATERAL STABILITY DURING CONSTRUCTION.
- BRIDGING:
 - HORIZONTAL
 - HORIZONTAL BRIDGING SHALL CONSIST OF TWO CONTINUOUS HORIZONTAL STEEL MEMBERS, ONE ATTACHED TO THE TOP CHORD AND THE OTHER ATTACHED TO THE BOTTOM CHORD.
 - EACH ATTACHMENT TO THE JOIST SHALL BE MADE BY WELDING OR MECHANICAL MEANS AND SHALL BE CAPABLE OF RESISTING A HORIZONTAL FORCE OF NOT LESS THAN 200 POUNDS.
 - DIAGONAL
 - DIAGONAL BRIDGING SHALL BE CONNECTED TO THE JOIST BY POSITIVE MECHANICAL MEANS OR BY WELDING.
 - INSTALLATION OF BRIDGING
 - ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOIST.
 - WHERE BOLTED DIAGONAL BRIDGING SHALL BE REQUIRED THE HOISTING CABLES SHALL NOT BE RELEASED UNTIL THE BOLTED BRIDGING IS COMPLETELY INSTALLED.

WOOD FRAMING:

- SPECIFICATIONS AND STANDARDS:
 - DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (1991 EDITION) RECOMMENDED PRACTICE BY NATIONAL FOREST PRODUCTS ASSOCIATION.
- MATERIALS:
 - USE ONLY STRESS GRADE LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES FOR ALL DIMENSIONAL LUMBER FRAMING.
 - STUDS: SOUTHERN YELLOW PINE # 2
 - RAFTERS/JOISTS: SOUTHERN YELLOW PINE # 2
 - HEADERS: SOUTHERN YELLOW PINE # 2
 - LAMINATED VENEER LUMBER (LVL/PSL): THE LVL/PSL BEAMS SHALL BE PLANT MANUFACTURED OF 1/10" TO 1/8" DOUGLAS FIR/SOUTHERN PINE VENEER GLUED IN A CONTINUOUS PROCESS WITH ALL GRAIN PARALLEL TO THE LENGTH OF THE MEMBER. USE PARALLAMS WITH F_b=2900 PSI, E=2000 KSI MIN. OR AN APPROVED EQUAL.
 - CONNECTION PLATES: ASTM A36
 - BOLTS: ASTM A307 WITH TWO WASHERS.
 - LIGHT GAUGE JOIST HANGERS AND FRAMING ANCHORS: 16 OR 18 GA. GALVANIZED STEEL SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORTED MEMBER. NOMENCLATURE IS BASED ON ANCHORS MANUFACTURED BY SIMPSON STRONG-TIE CO. INC.
 - USE ONLY PLYWOOD OR ORIENTED STRAND BOARD (OSB) WITH THICKNESS AND PANEL INDEX AS INDICATED ON THE DRAWINGS. ALL SHEATHING TO HAVE EXTERIOR GLUE.
- CONSTRUCTION REQUIREMENTS:
 - MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.
 - BOLT HOLES AND PLATES TO BE PLACED AS SHOWN ON DETAILS AND TO PROVIDE SPECIFIED SPACINGS, END DISTANCES, AND EDGE DISTANCES.
 - PROVIDE PLYWOOD/OSB NAILING AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION OR AS SHOWN ON THE PLANS.
 - CONNECT ALL FRAMING SECURELY TOGETHER WITH NAILS, SPIKES, OR FRAMING ANGLES.
 - PROVIDE DOUBLE STUDS BESIDE ALL OPENINGS EXCEPT AS NOTED.
 - WHERE PLYWOOD PILLARS ARE CALLED OUT WITH LINTELS, THEY SHALL BE CONTINUOUS PIECES FOR LENGTH OF OPENING AND SHALL BE NAILED TO 2 X 4'S WITH 2 ROWS OF 10d NAILS AT 12" O/C.
 - PROVIDE SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER POSTS, MULTIPLE STUDS, OR BEAM BEARINGS.
 - PROVIDE DOUBLE JOISTS UNDER PARTITIONS PARALLEL TO JOIST SPAN.
 - PROVIDE BRIDGING IN ALL FLOOR, ATTIC AND ROOF JOIST FRAMING. THERE SHALL NOT BE LESS THAN ONE LINE OF BRIDGING FOR EACH EIGHT FEET OF SPAN. IF THE RATIO OF JOIST DEPTH TO THICKNESS EXCEEDS SIX TO ONE (I.E. 2X10'S) AND/OR THE DESIGN LIVE LOAD EXCEEDS 40 PSF.
 - PROVIDE ANCHORAGE OF WALL SILL PLATES TO FOUNDATION WITH 1/2 INCH DIAMETER BOLTS LOCATED WITHIN TWELVE INCHES FROM THE END OF EACH SECTION OF PLATE. INTERMEDIATE BOLTS SHALL BE SPACED AT A MAXIMUM OF 6 FOOT ON CENTER. THE BOLTS SHALL BE EMBEDDED IN FOUNDATIONS TO A MINIMUM DEPTH OF 6 INCHES IN POURED IN PLACE CONCRETE AND 8 INCHES IN GROUTED UNIT MASONRY. SEE PLANS FOR SPECIAL ANCHORAGE AT SHEAR WALL LOCATIONS.

MISC. LIGHT-GAUGE FLOOR FRAMING:

- WEB PUNCHOUTS WERE NOT CONSIDERED FOR SHEAR OR WEB CRIPPLING. SHEAR AND WEB CRIPPLING REDUCTION FACTORS MAY BE REQUIRED FOR WEB PUNCHOUT, PER ICG-ES ACCEPTANCE CRITERIA AC46, APPENDIX B.
- SPANS ARE BASED ON CONTINUOUS LATERAL SUPPORT OF THE COMPRESSION FLANGE.
- FOR TWO EQUAL SPANS, THE SPAN IS THE DISTANCE FROM EITHER END SUPPORT TO THE CENTER SUPPORT. JOIST MUST BE CONTINUOUS OVER THE CENTER SUPPORT.
- WEB CRIPPLING CAPACITY IS BASED ON A 3.5 INCH BEARING LENGTH AT END AND INTERIOR SUPPORTS.
- JOIST MUST BE BRACED AGAINST ROTATION AT ALL SUPPORTS BY TRACK OR BLOCKING.
- JOIST SPANS ARE BASED ON 50ksi FOR 54, 60, AND 47 mil THICKNESSES, AND 33ksi FOR THINNER MEMBERS.
- SEE GENERAL NOTES ON THIS PAGE FOR ALLOWABLE LOADS AND DEFLECTION CRITERIA.
- LIVE LOAD HAS BEEN CHECKED FOR UNBALANCED LOAD CONDITIONS.

LIGHT-GAUGE FLOOR JOIST BRIDGING REQUIREMENTS

SPAN (FT)	MINIMUM NUMBER OF ROWS
UP TO 14ft	ONE ROW AT MID-SPAN
14ft TO 20ft	TWO ROWS AT ONE-THIRD POINTS
20ft TO 26ft	THREE ROWS AT ONE-FOURTH POINTS

LIGHT-GAUGE STEEL:

- WALLS INDICATED ON STRUCTURAL DRAWINGS SHALL HAVE STUDS WITH 1-5/8" FLANGE AND STIFFENING RETURN UNLESS OTHERWISE NOTED.
- ALL COLD FORMED MEMBERS SHALL COME FROM A SINGLE MANUFACTURER; ONLY WHO ARE MEMBERS THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) WILL BE ACCEPTED. THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
- SEE PLAN FOR PROPER MEMBERS GAGE AND SPACING.
- ALL STUD MATERIAL SHALL BE PRE-PUNCHED WITH 1/4" X 4" WEB PUNCH OUTS SPACED ON 24" CENTERS WITH PUNCH OUTS A MINIMUM OF 12" FROM ENDS OF STUD.
- BRIDGING AND SHEAR WALL STRAPS SHALL BE IN PLACE PRIOR TO PLACING ANY LOADS ON THE STUD WALLS. ALL SHALL BE TAUT BY PRE-TENSIONS. LIGHT GAUGE STRAPS ON BOTH SIDES OF THE WALL ARE REQUIRED TO PROVIDE SHEAR RESISTANCE FOR SHEAR WALL FRAMING.
- LOAD BEARING INTERIOR AND ALL EXTERIOR WALL STUDS SHALL BE SAW CUT (NOT GAS CUT) TO FIT SQUARELY AND EVENLY AGAINST THE TOP AND BOTTOM TRACK. CONTRACTOR'S LOAD BEARING STUD OPTION: SIGMASTUD BY THE STEEL NETWORK, INC. OR EQUAL.
- PLACE #10-24 TEK SCREWS MINIMUM 1/16" APART AND MINIMUM 1/16" FROM EDGES.
- ALL MATERIAL SHALL BE GALVANIZED. ALL SCREWS SHALL BE ZINC COATED.
- ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653/A653M G-60 GALVANIZED COATING. ACCEPTABLE MANUFACTURER: THE STEEL NETWORK, INC. OR EQUAL.
- ALL 20 GAUGE (33 MIL) AND 18 GAUGE (43 MIL) MATERIAL SHALL CONFORM TO ASTM A653, 660 WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
- ALL 16 GAUGE (54 MIL), 14 GAUGE (60 MIL) AND 12 GAUGE (47 MIL) MATERIAL SHALL CONFORM TO ASTM A653, 660 WITH A MINIMUM YIELD STRENGTH OF 50 KSI.
- ALL MATERIAL SHALL BE COLOR CODED FOR THE DIFFERENT GAGES.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND GUYING OF STEEL FRAMING AND LOAD BEARING WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMEN. BRACING SHALL REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF FRAMING.
- WHEN REQUIRED, DEFLECTION CONNECTIONS SHALL ALLOW FOR POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICG ES REPORT OR EQUIVALENT COMPLYING WITH ICG ACCEPTANCE CRITERIA AC261. ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653. VERTICLIP OR VERTITRACK BY THE STEEL NETWORK, INC. OR EQUAL TO.
- WHEN REQUIRED, LATERAL DRIFT CLIPS ARE TO PROVIDE POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS LATERAL AND VERTICAL MOVEMENT. DRIFTCLIP OR DRIFTTRACK BY THE STEEL NETWORK, INC. OR EQUAL TO.
- RIGID CONNECTIONS FOR ATTACHMENT OF METAL FRAMING TO METAL FRAMING AND TO THE PRIMARY STRUCTURE SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653.
- DESIGN BRIDGING CLIPS TO PROVIDE ATTACHMENT TO STUD WEB AND WRAPPING AROUND THE BRIDGING CHANNEL. BRIDGING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A653. BRIDGECLIP AND BRIDGEBAR BY THE STEEL NETWORK OR EQUAL TO.
- FRAMING OF WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS AS RECOMMEND BY THE STUD MANUFACTURER. CONTRACTOR OPTION: JAMBSTUD BY THE STEEL NETWORK, INC. TO REDUCE OR ELIMINATE BUILT-UP FRAMING IN JAMB, HEADERS, AND SILLS. USE STIFFCLIP OR STIFFCLIP AL TO ELIMINATE JACK STUDS (OR EQUAL MATERIAL). SEE FRAMING PLANS FOR ADDITIONAL INFORMATION.

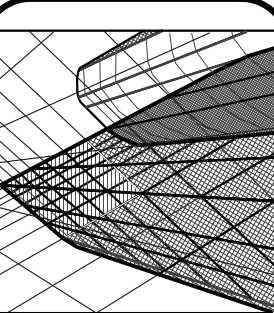
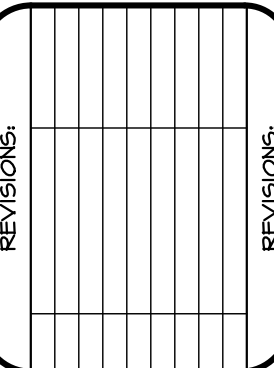
DESIGN LOADING:

- ROOF LOADING:
 - LIVE LOAD: _____ 20 PSF
 - DEAD LOADS: _____
 - BAR JOIST _____ 1 PSF
 - DECKING _____ 2 PSF
 - INSULATION _____ 4 PSF
 - EPDM ROOFING _____ 1 PSF
 - MECH / FIRE _____ 5 PSF
 - CEILING TILE _____ 6 PSF
 - TOTAL: _____ 30 PSF
- FLOOR LOADING:
 - LIVE LOAD: _____ 125 PSF
 - DEAD LOAD: _____
 - JOIST _____ 2 PSF
 - 3/4" PLYWOOD _____ 3 PSF
 - DECKING _____ 2 PSF
 - MECH / FIRE _____ 5 PSF
 - COLLATERAL _____ 5 PSF
 - TOTAL: _____ 17 PSF

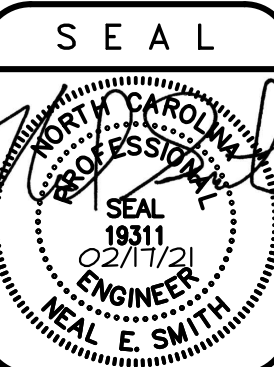
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Angier, NC

GENERAL CONSTRUCTION NOTES



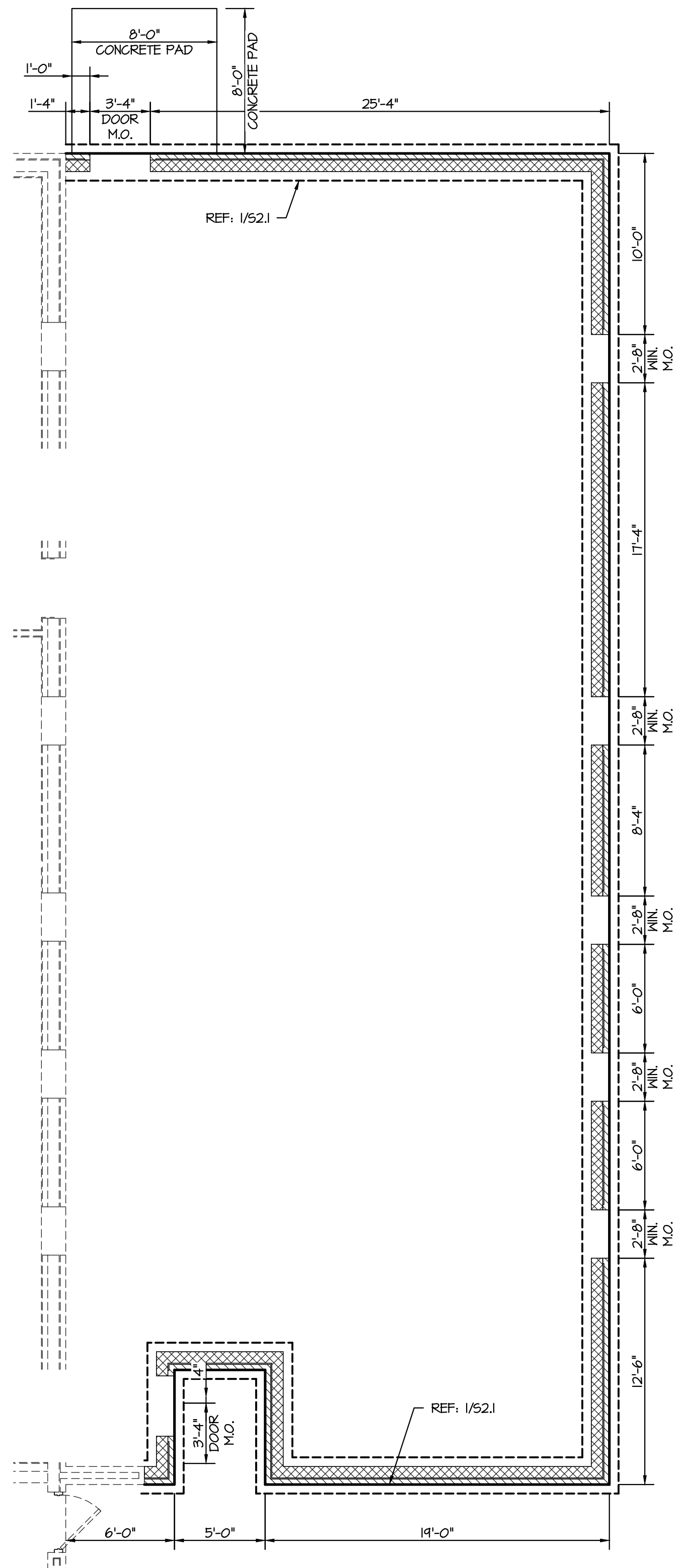
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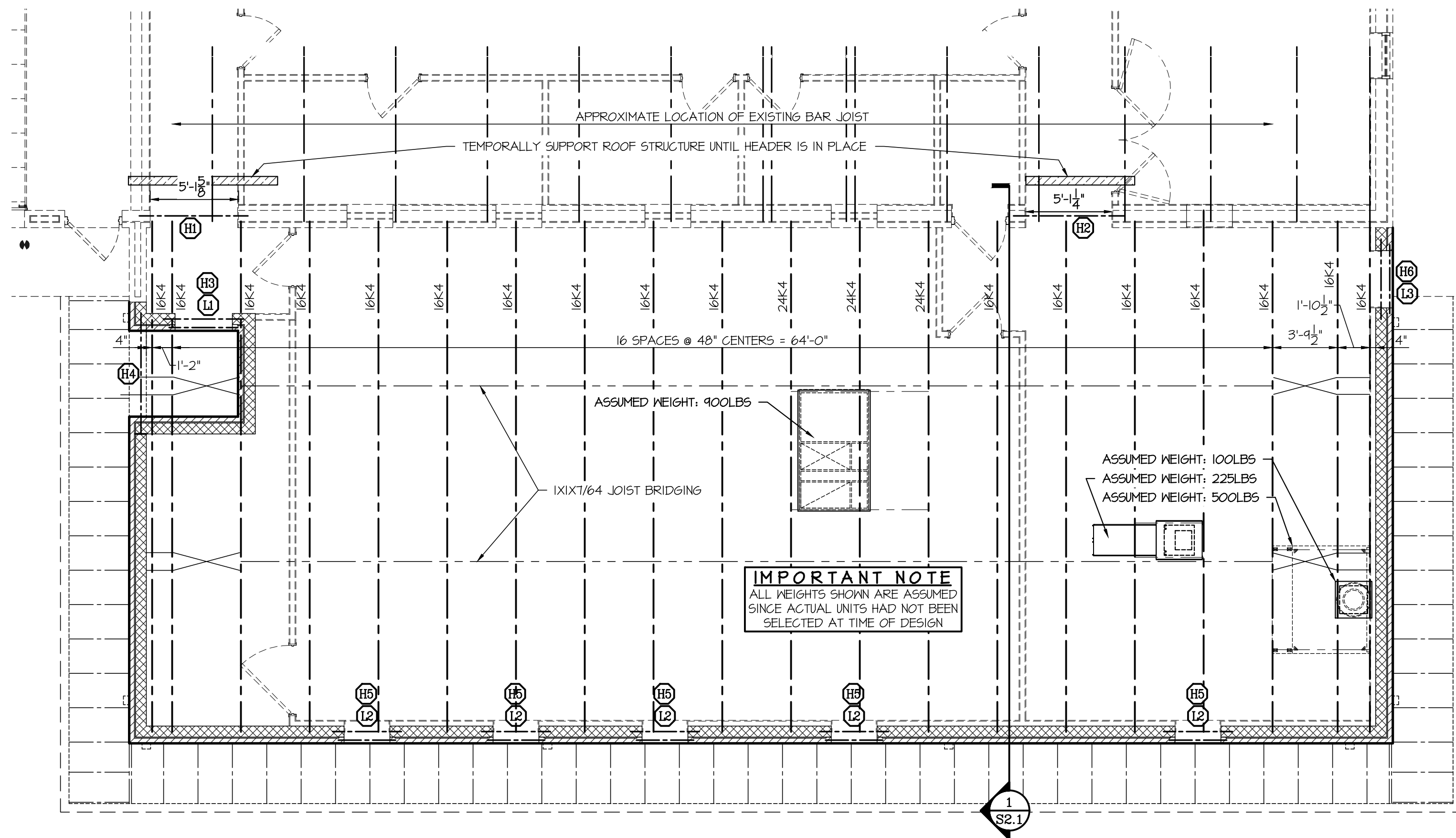
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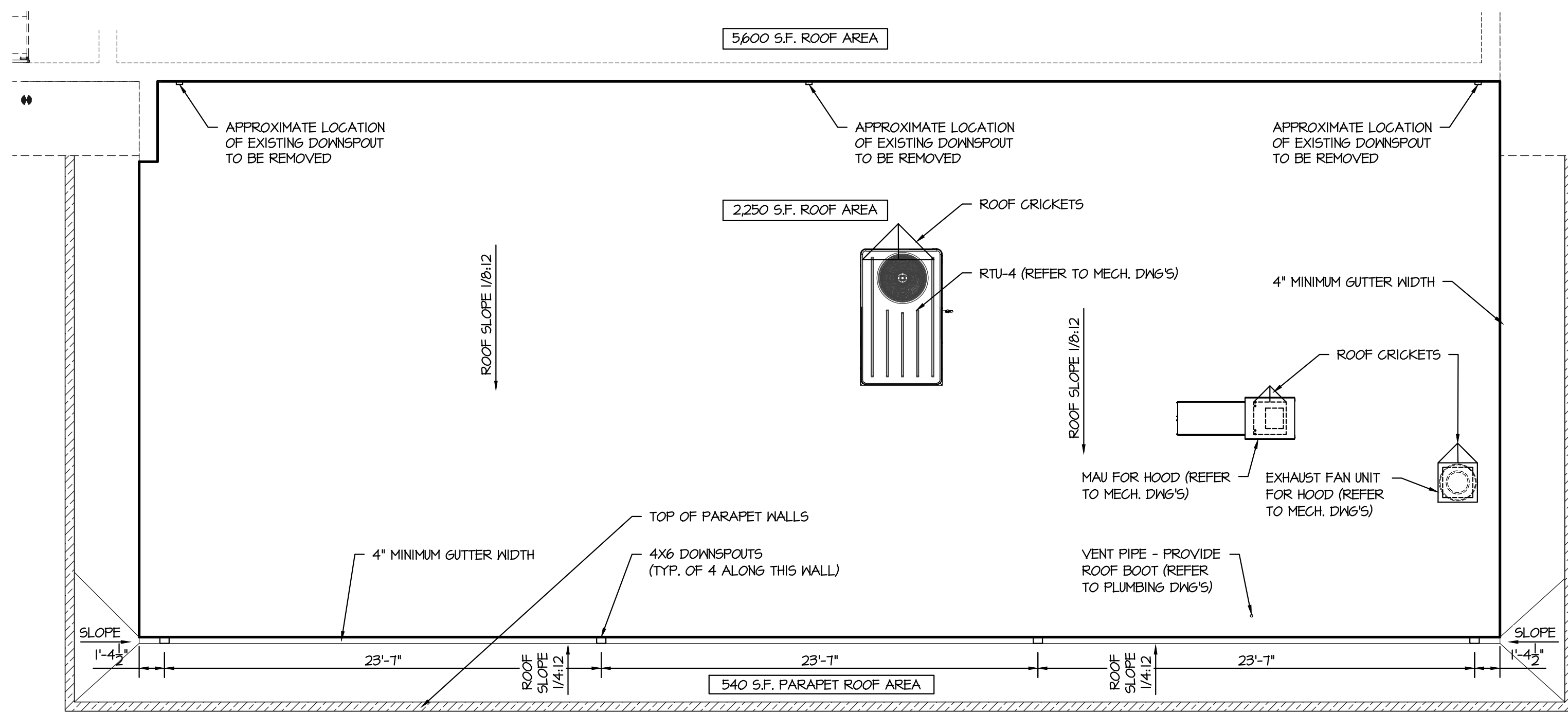
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1
SI.1
Foundation Plan - Rotated -90 Degrees
3/16" = 1'-0"



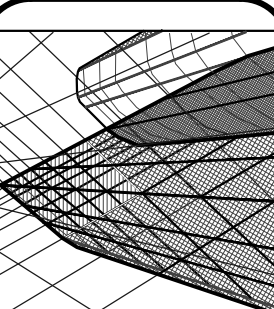
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SI.1
Roof and Facade Framing Plan
3/16" = 1'-0"



3
SI.1
Roof Layout Plan
3/16" = 1'-0"

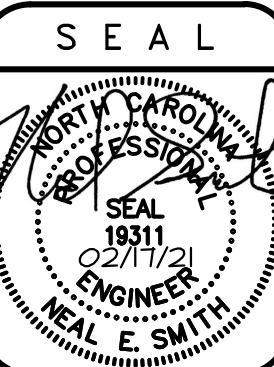
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FOUNDATION PLAN, FRAMING PLAN AND ROOF PLAN

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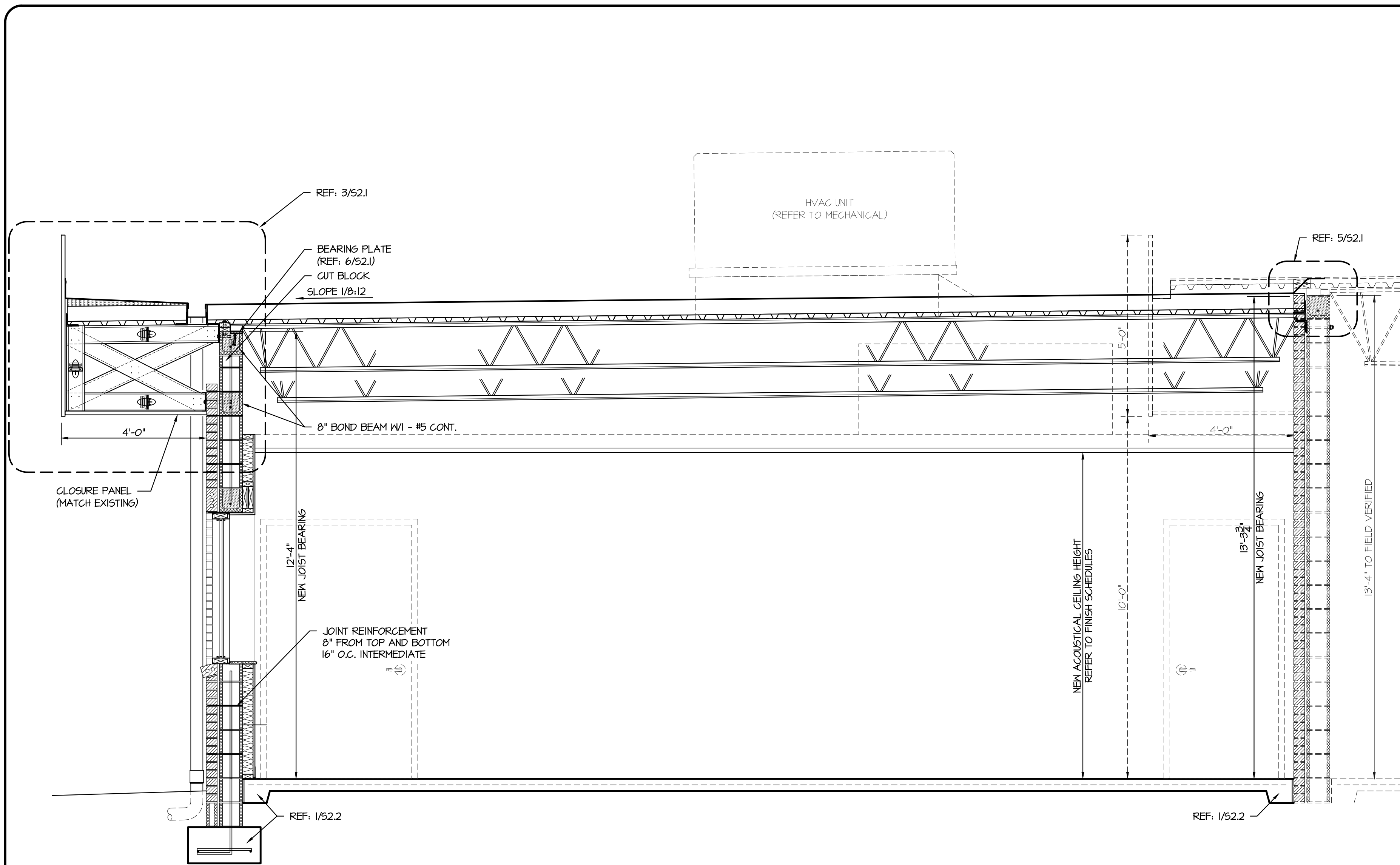
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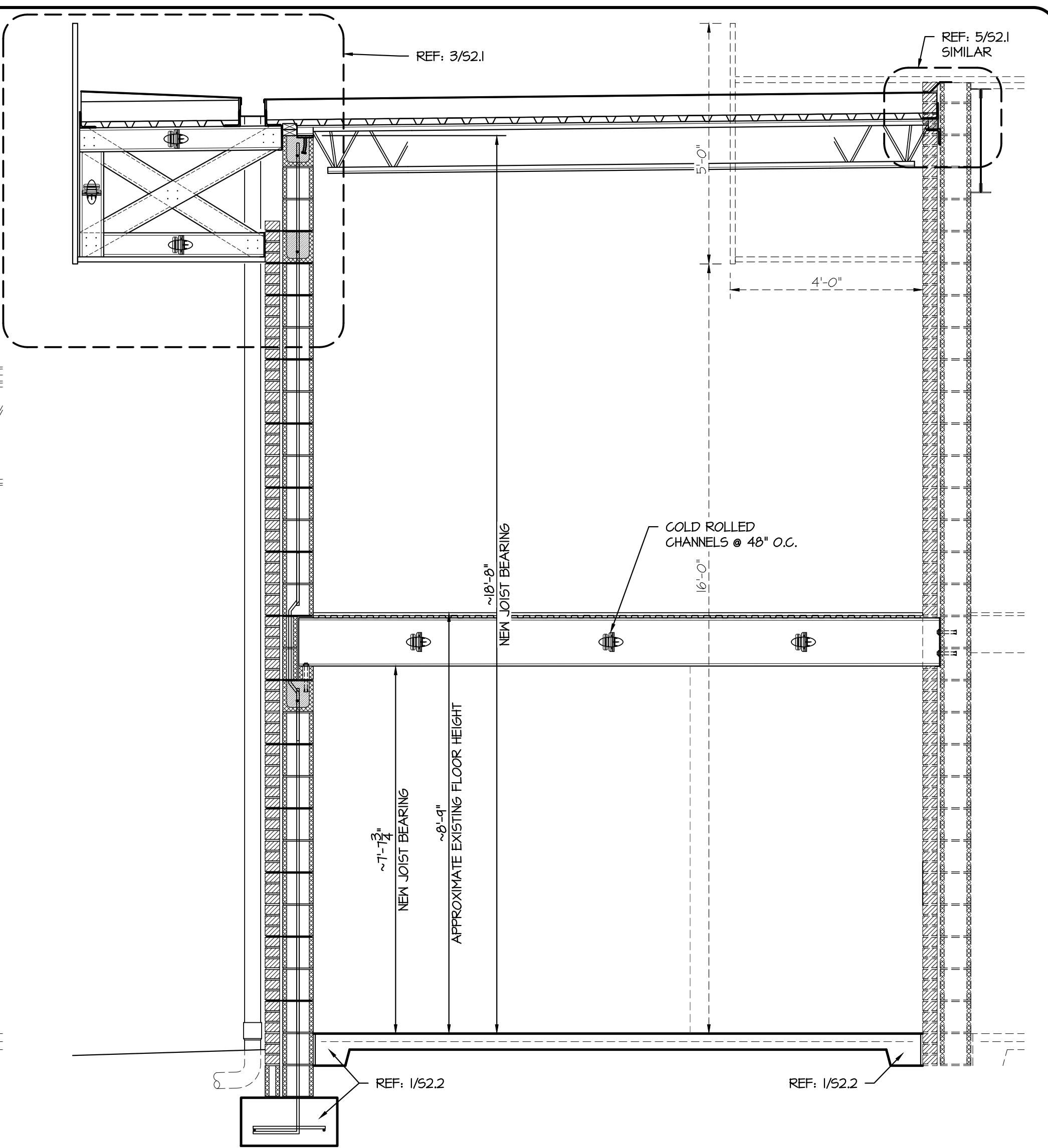
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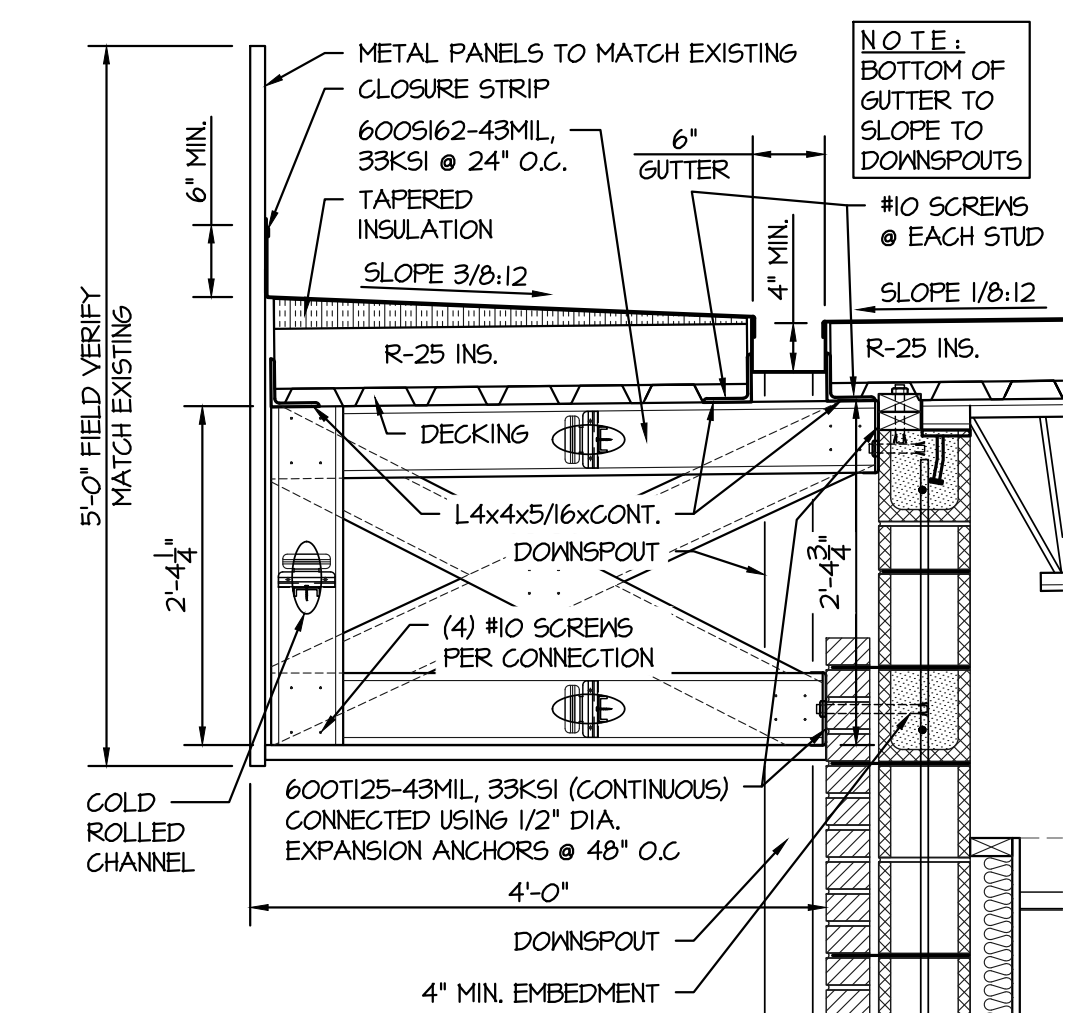
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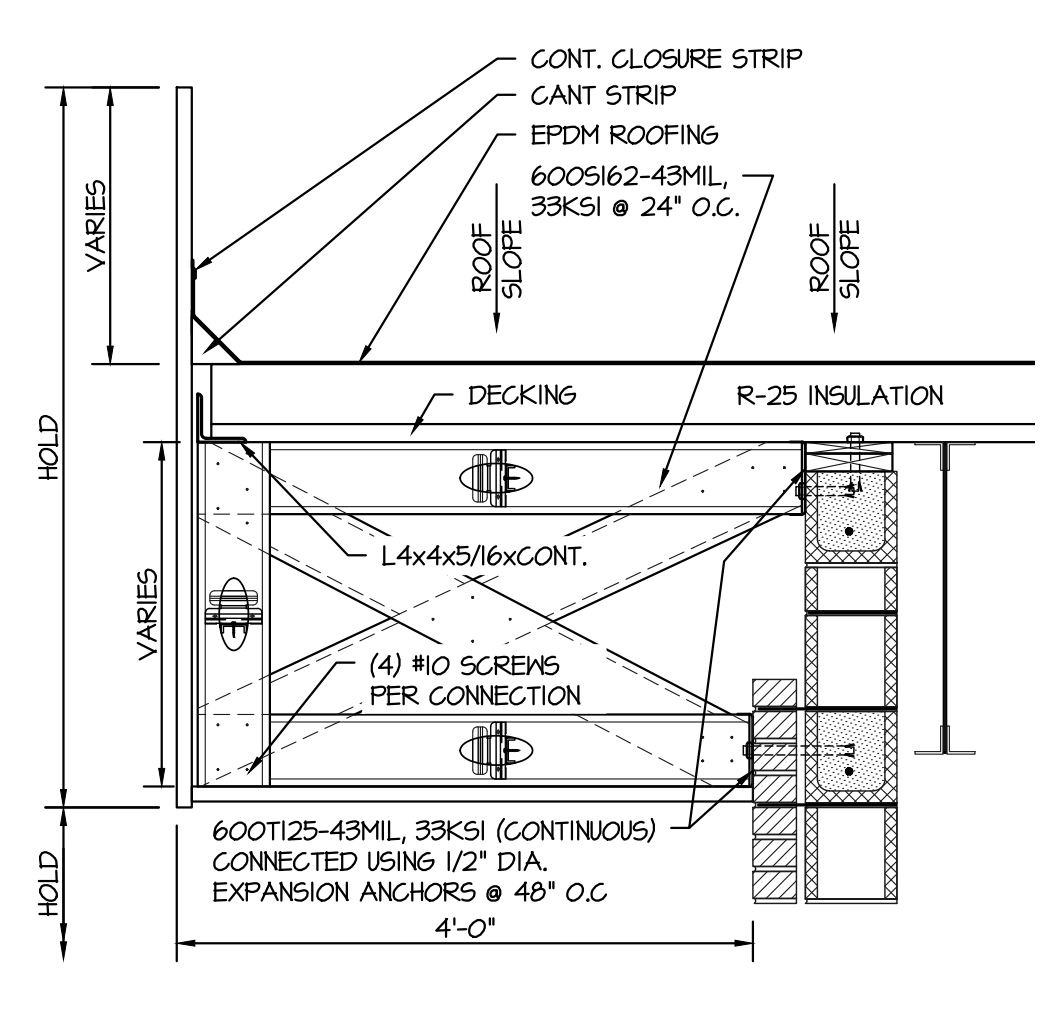
1 Building X-Section at Training Room
1/2" = 1'-0"



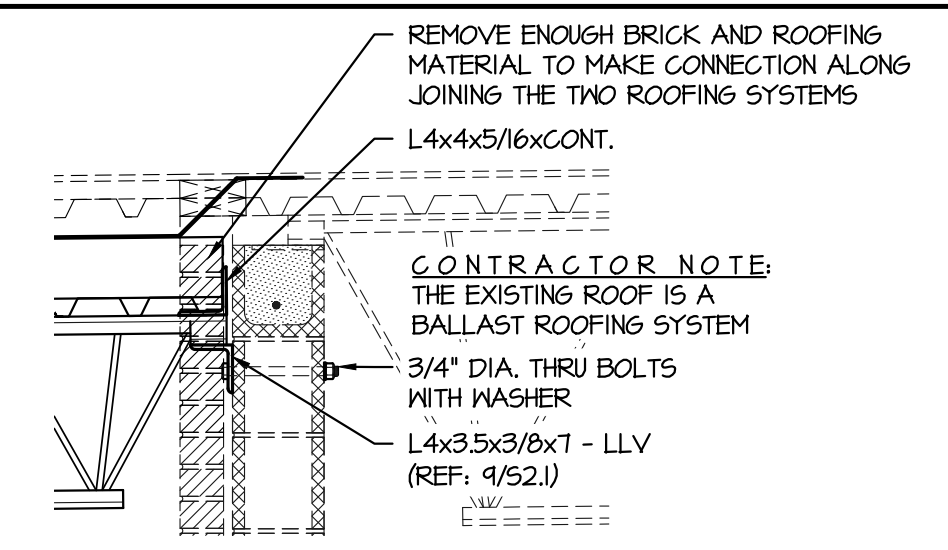
2 Building X-Section at Storage Addition
1/2" = 1'-0"



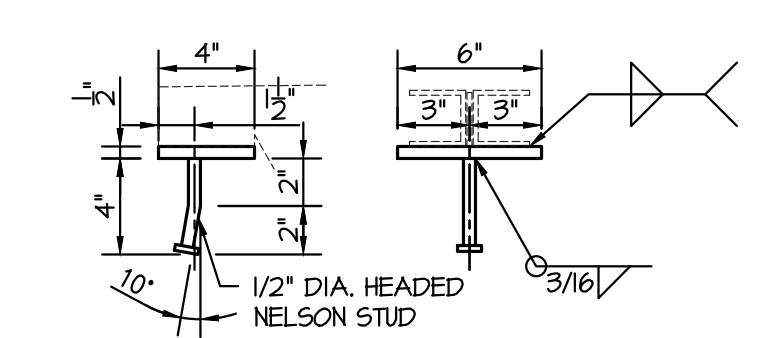
3 Over-hang Detail
3/4" = 1'-0"



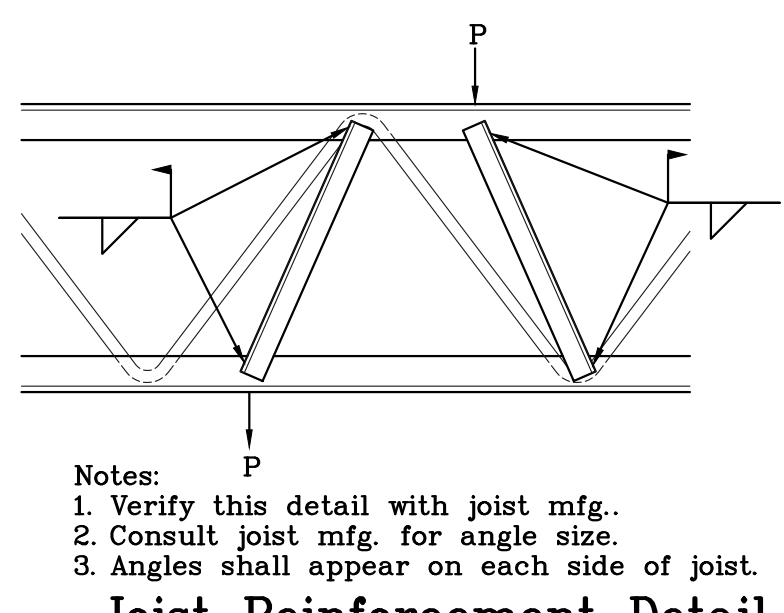
4 Over-hang Detail
3/4" = 1'-0"



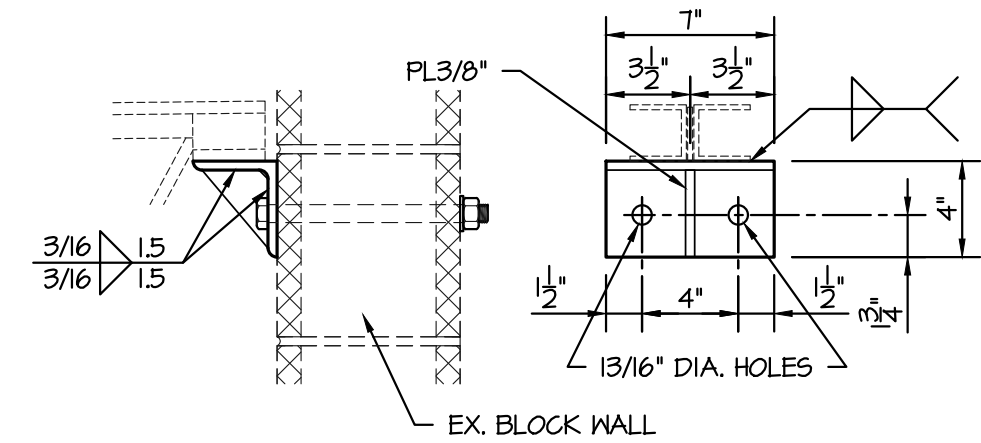
5 Bar Joist Connection at Ex. Bldg.
3/4" = 1'-0"



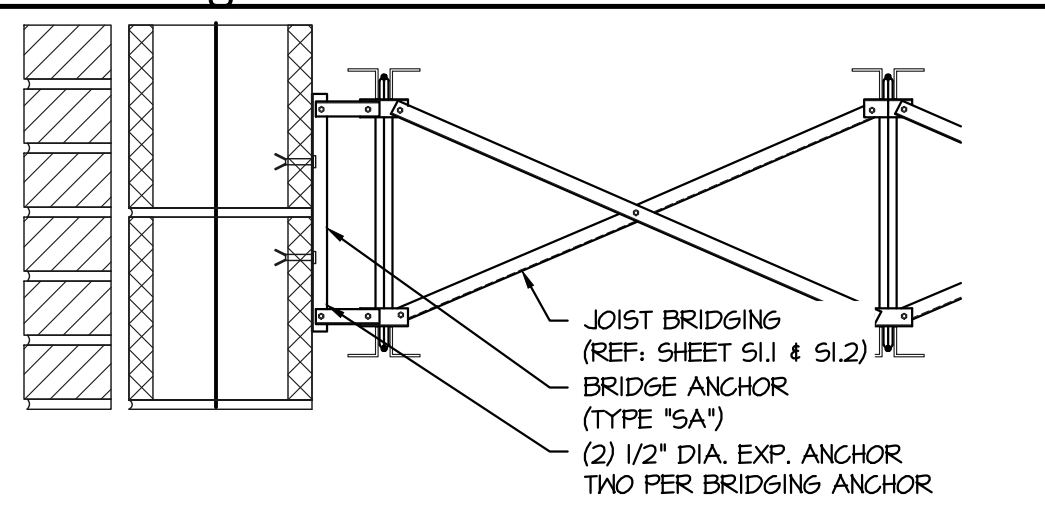
6 Joist Bearing Plate Detail
1-1/2" = 1'-0"



8 Joist Reinforcement Detail For Concentrated Loading
1-1/2" = 1'-0"

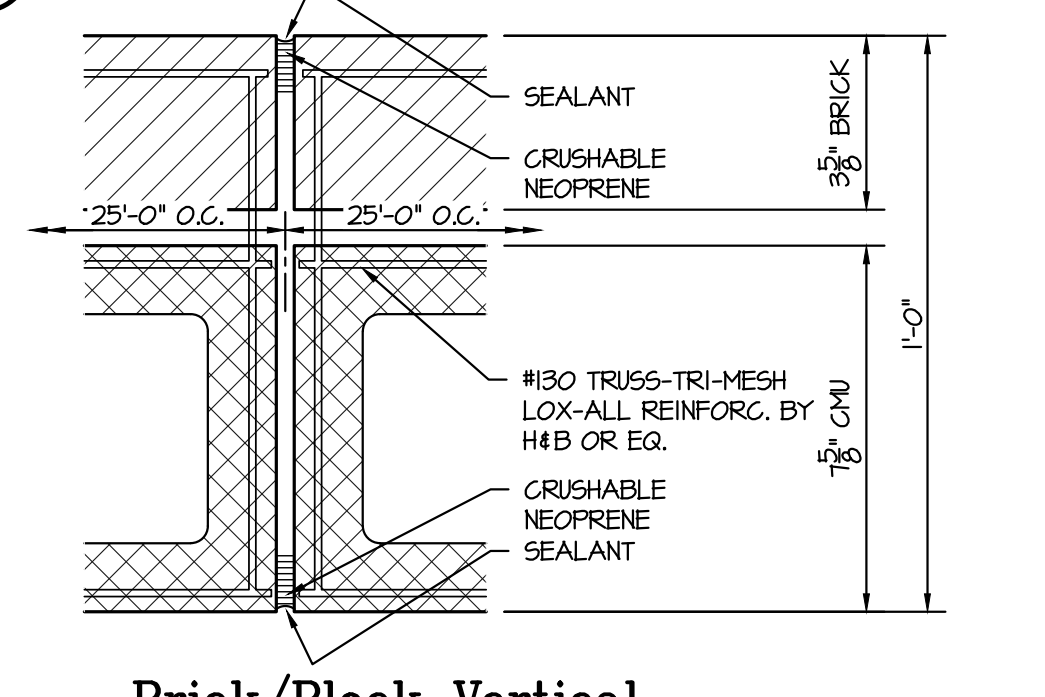


9 Joist Bearing Detail
1-1/2" = 1'-0"



Important Notes:
1. Do not weld bridging to joist web members.
2. Do not hang any mechanical, electrical or etc.. from bridging.

7 Joist Bridging Attachment Detail
1-1/2" = 1'-0"



10 Brick/Block Vertical Control Joint and Tie Detail
3" = 1'-0"

ANGIER & BLACK RIVER FIRE DEPARTMENT
Angier, NC
DETAILS

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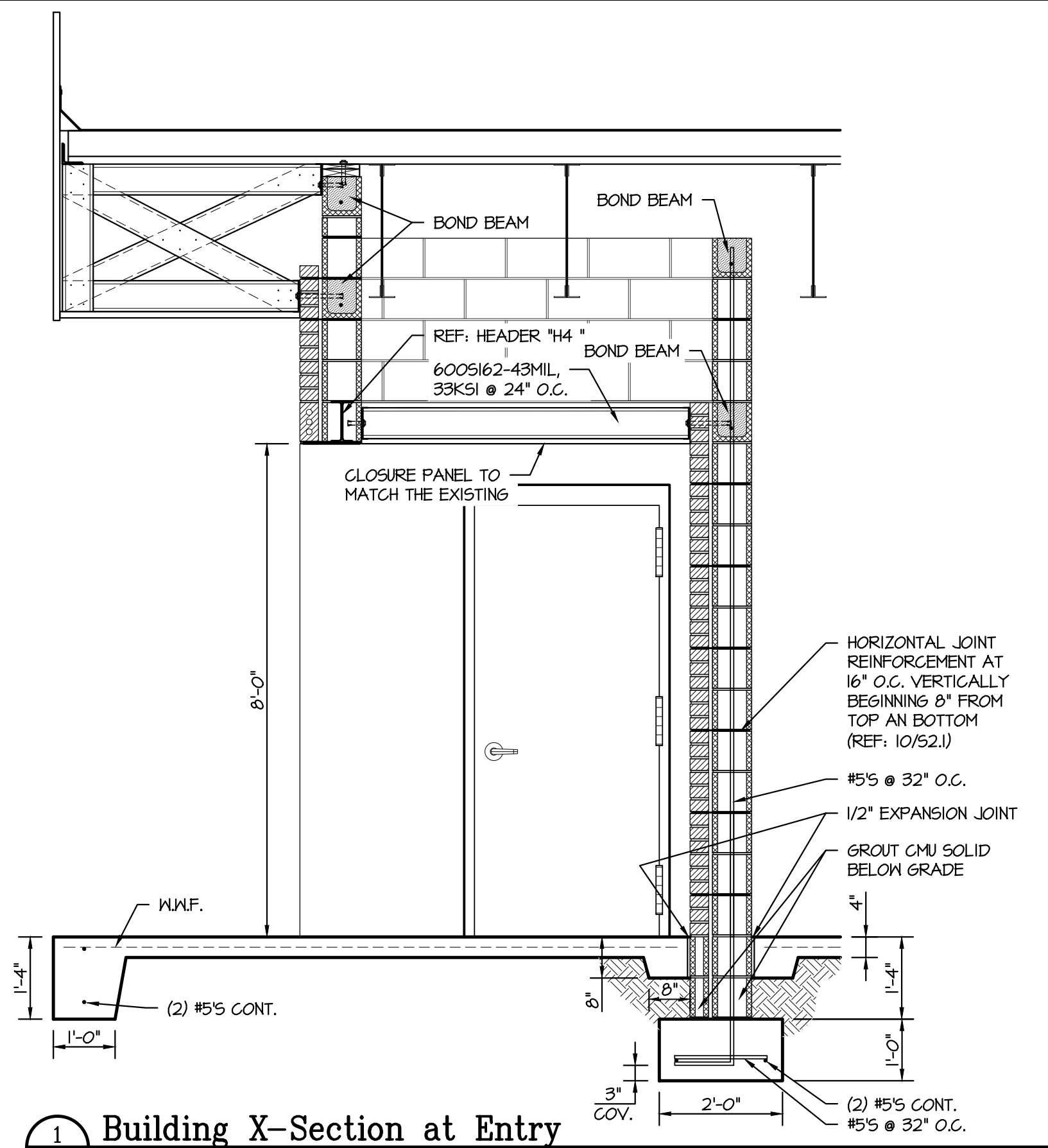
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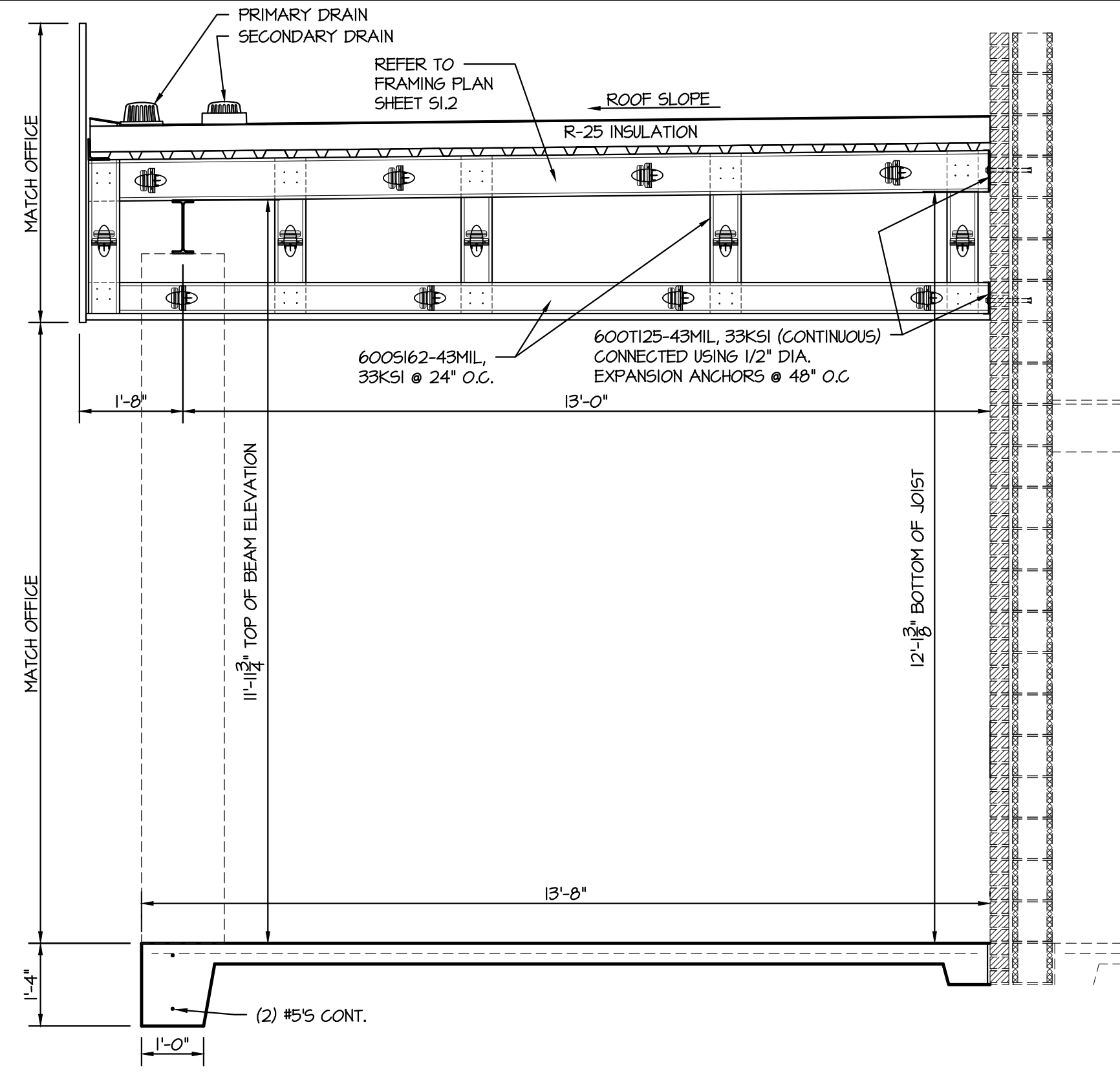
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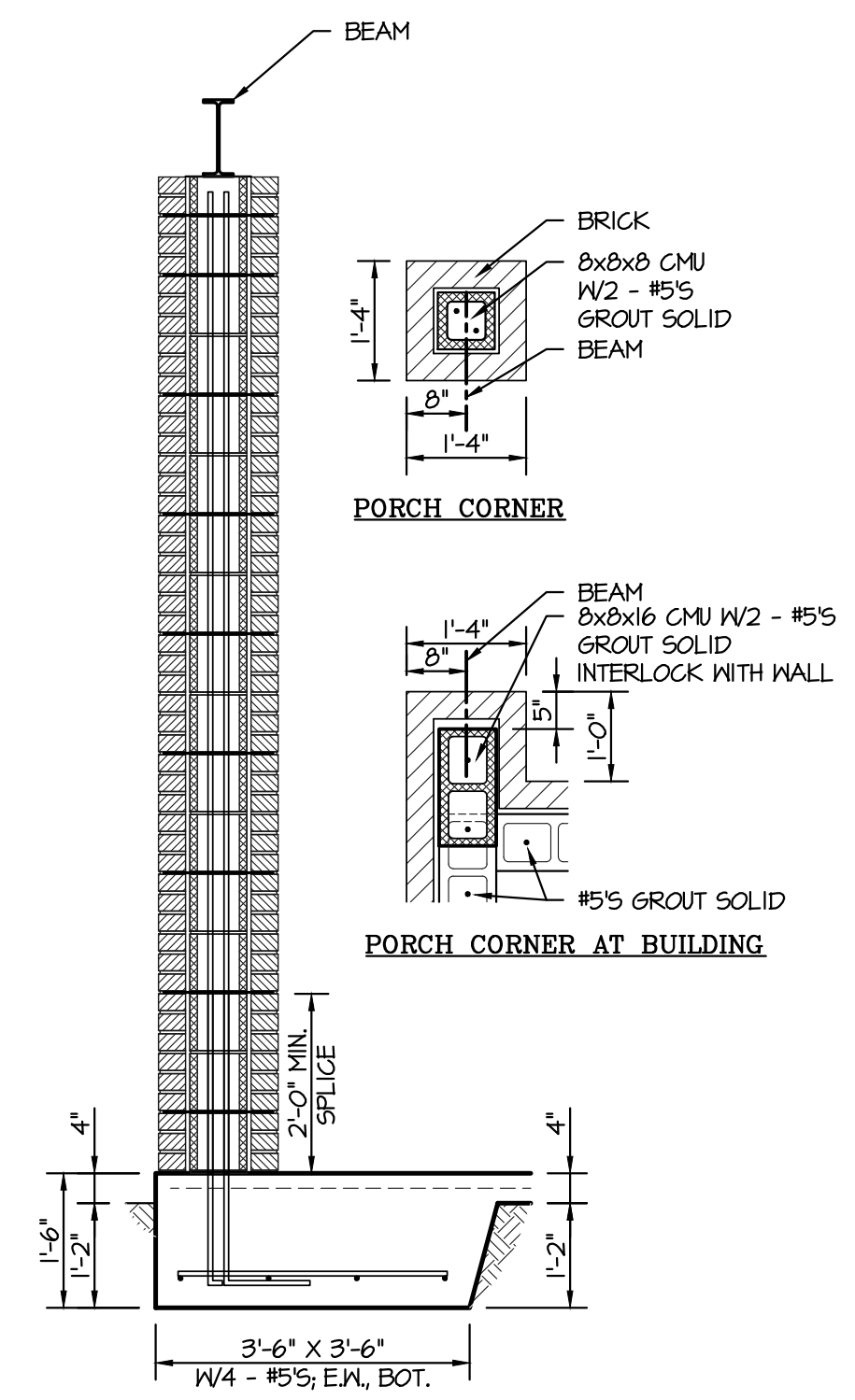
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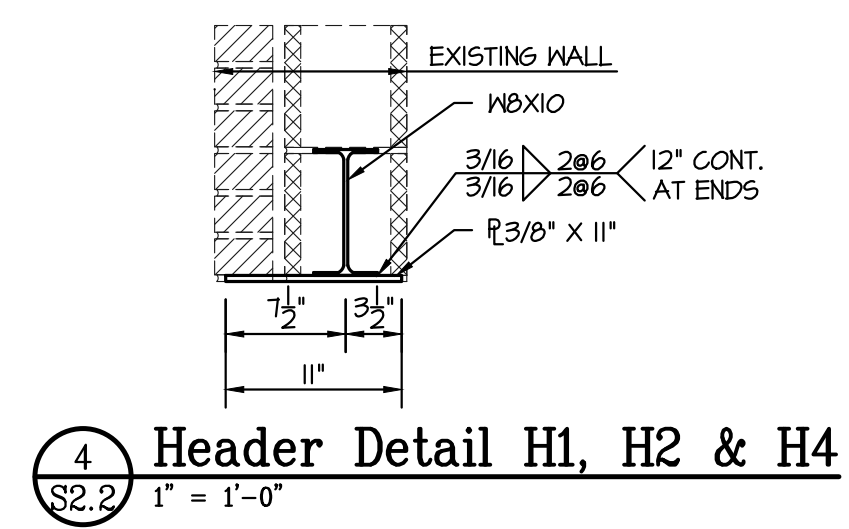
1 Building X-Section at Entry
S2.2 1/2" = 1'-0"



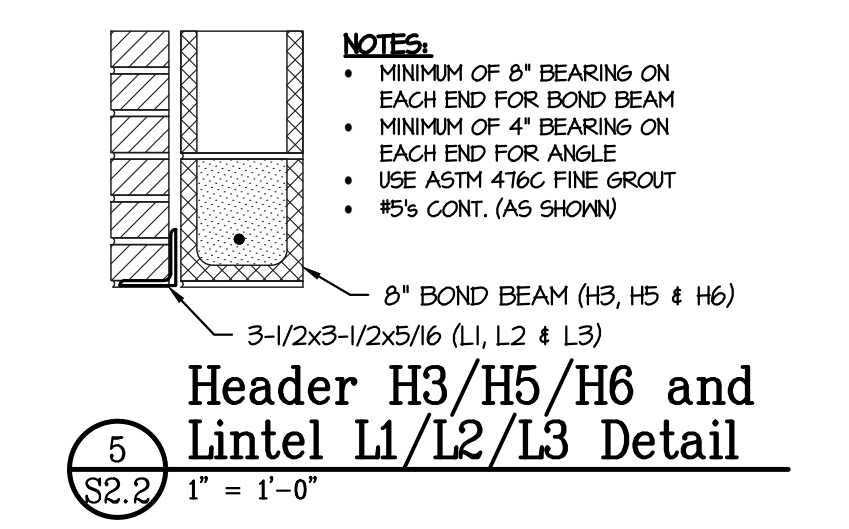
2 Building X-Section at Covered Porch
S2.2 1/2" = 1'-0"



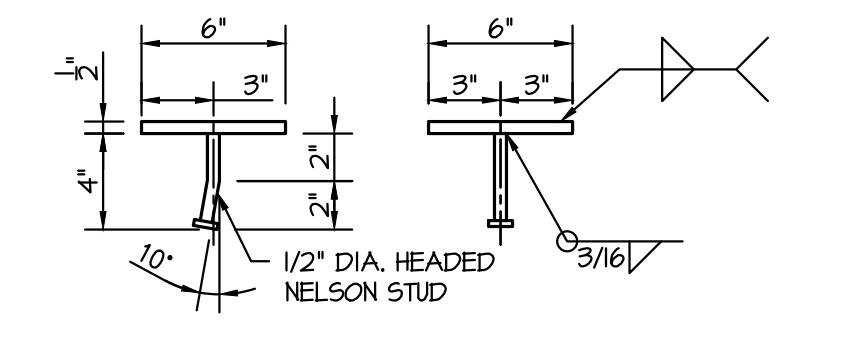
3 Porch Beam Support Details
S2.2 1/2" = 1'-0"



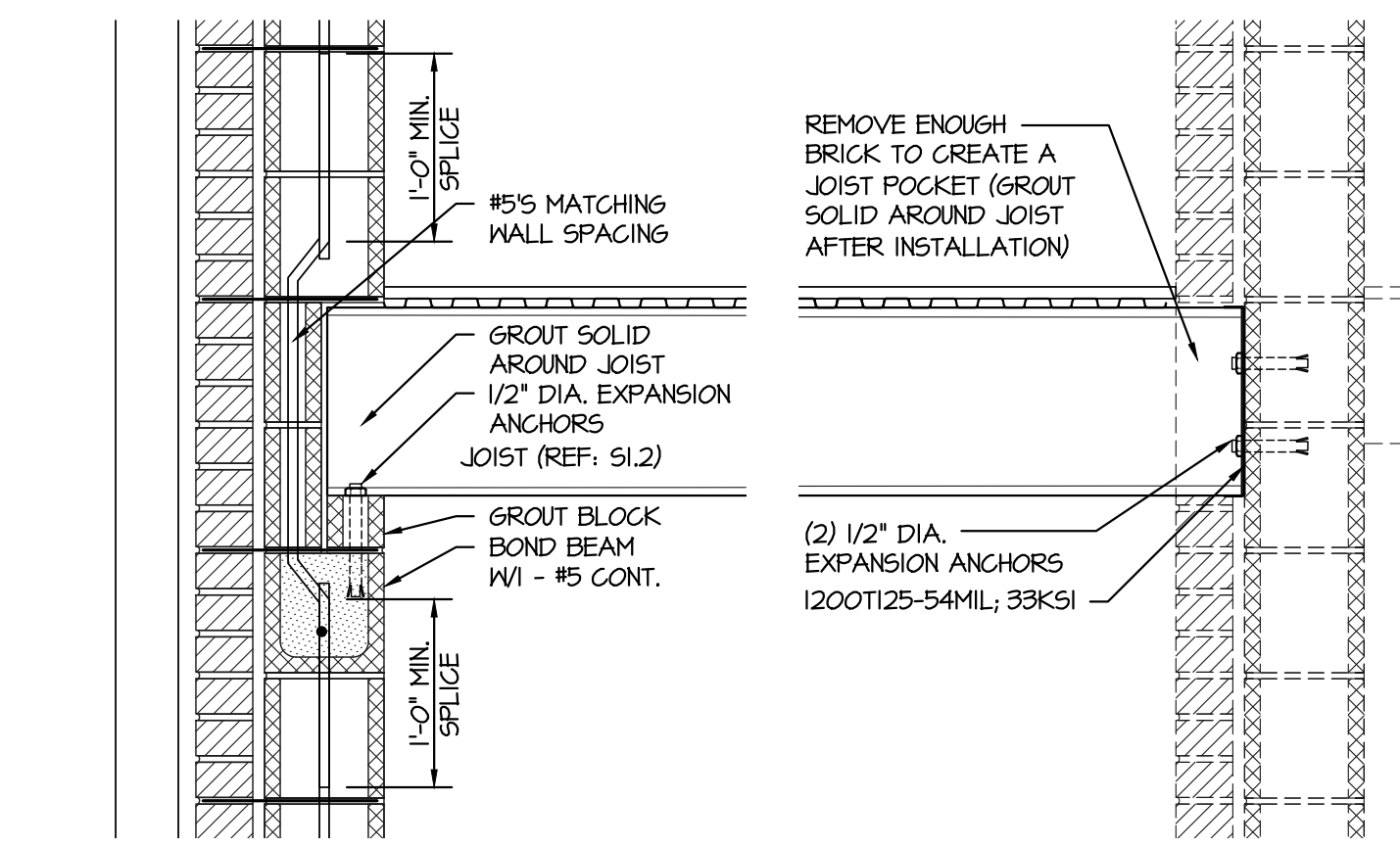
4 Header Detail H1, H2 & H4
S2.2 1" = 1'-0"



5 Header H3/H5/H6 and Lintel L1/L2/L3 Detail
S2.2 1" = 1'-0"



6 Porch Beam Bearing Plate
S2.2 1-1/2" = 1'-0"



7 Floor Joist Bearing Details
S2.2 1" = 1'-0"

ANGLIER & BLACK RIVER FIRE DEPARTMENT
 Angier, NC
 DETAILS

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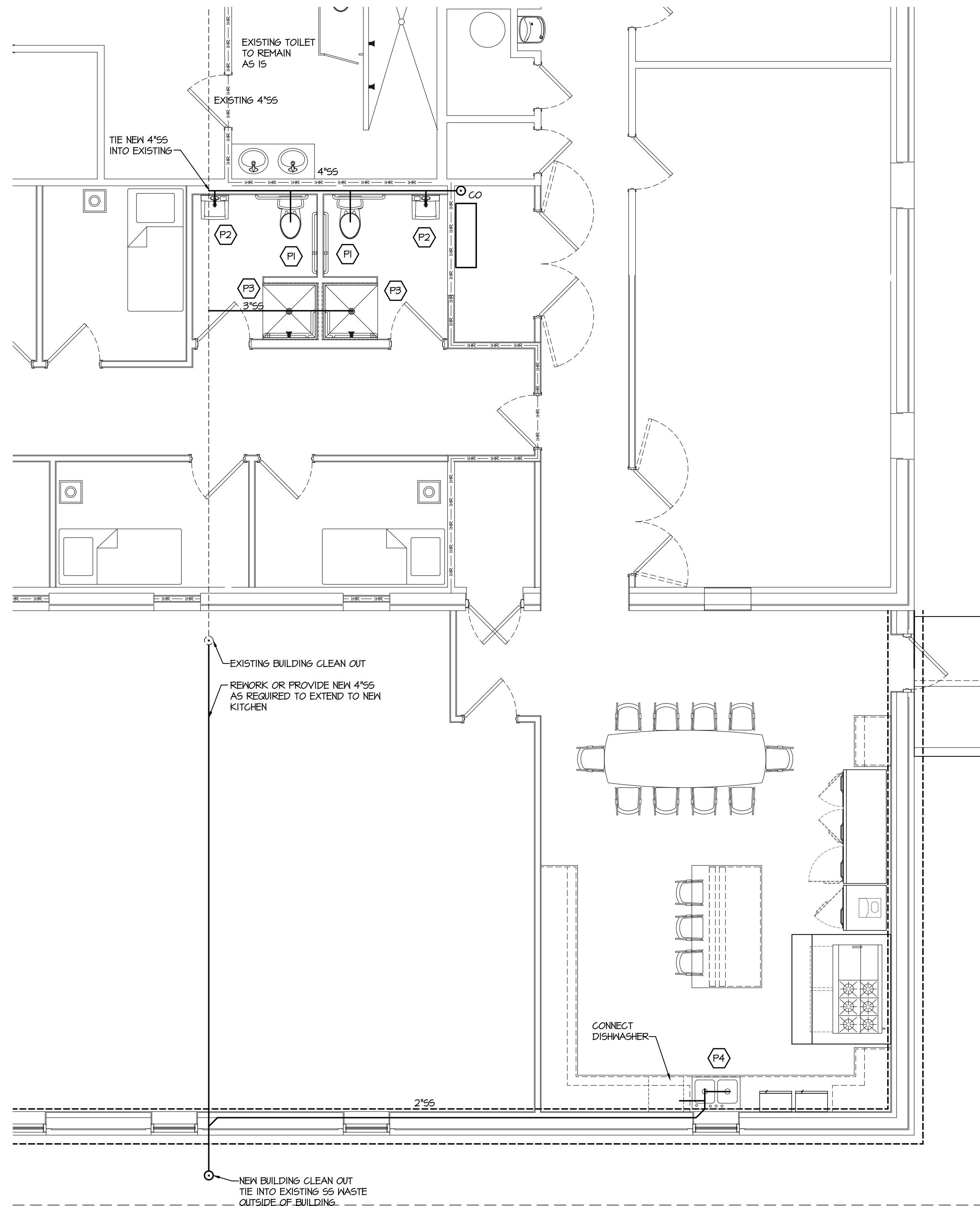
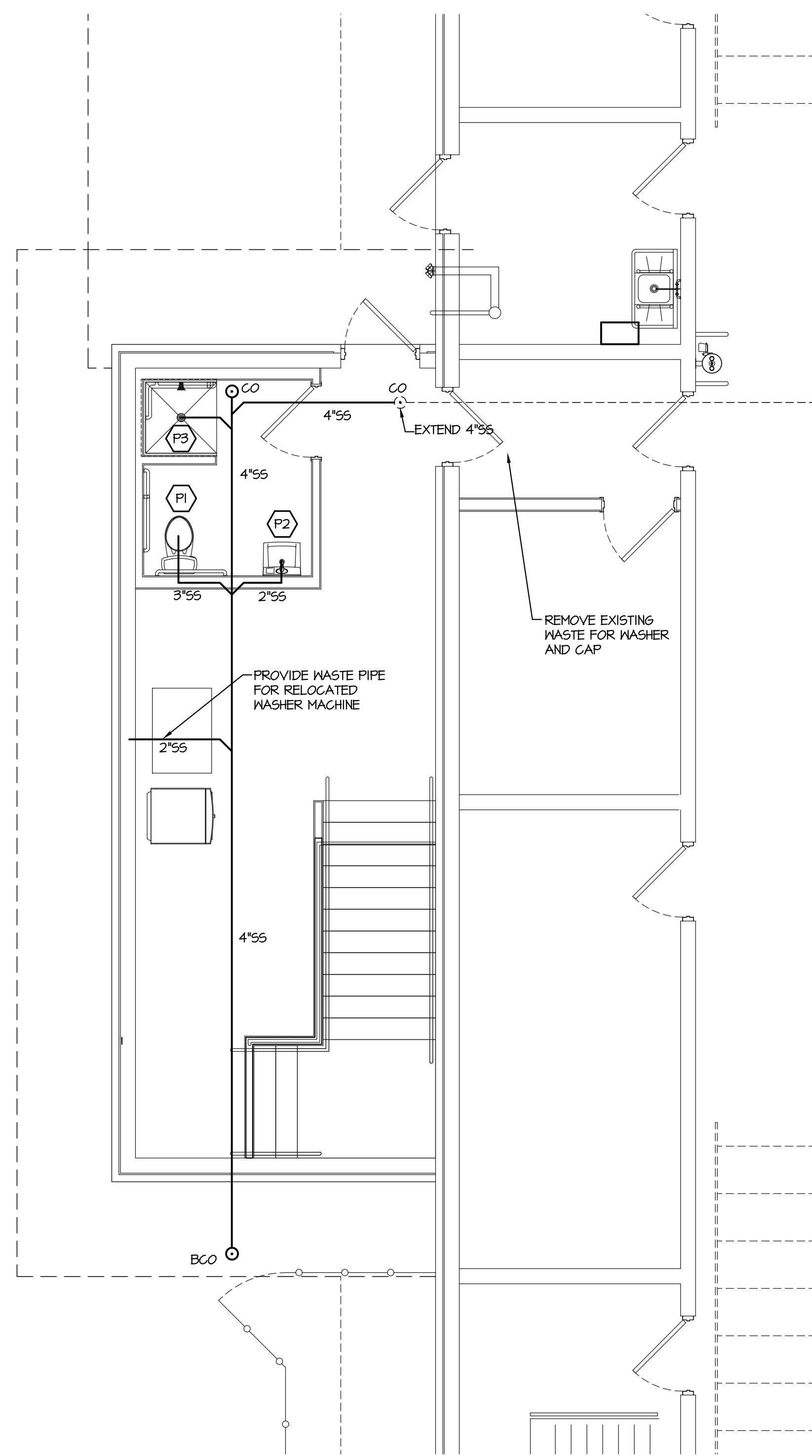
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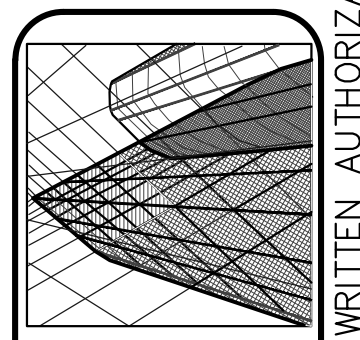
PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE DESCRIPTION	PIPE SIZES		
		C.R.	H.R.	WASTE
P1	WATER CLOSET, TANK, ADA	3/4"	-	3"
P2	WALL MOUNTED LAVATORY, W/FAUCET, PROCLEAN, ADA	1/2"	1/2"	2"
P3	SHOWER W/FAUCET AND DRAIN, ADA	1/2"	1/2"	3"
P4	TWO BOWL KITCHEN SINK, W/FAUCET	1/2"	1/2"	2"
WH-1	WATER HEATER, INSTANT, 199K BTU EA, (2) TANDEM UNIT, WALL MTD	3/4"	3/4"	-
WH-2	WATER HEATER, INSTANT, 199K BTU, SINGLE UNIT, WALL MTD	3/4"	3/4"	-

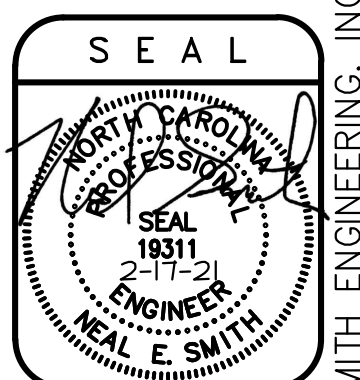
COORDINATE WATER HEATER W/ELECTRICAL CONTRACTOR
 PLUMBING FIXTURES SHALL BE AMERICAN STANDARD W/DELTA FAUCETS OR EQUAL.
 WATER HEATER SHALL BE RENNAI

ANGIER # BLACK RIVER FIRE DEPARTMENT
 ANGIER, NC
 WASTE PLAN

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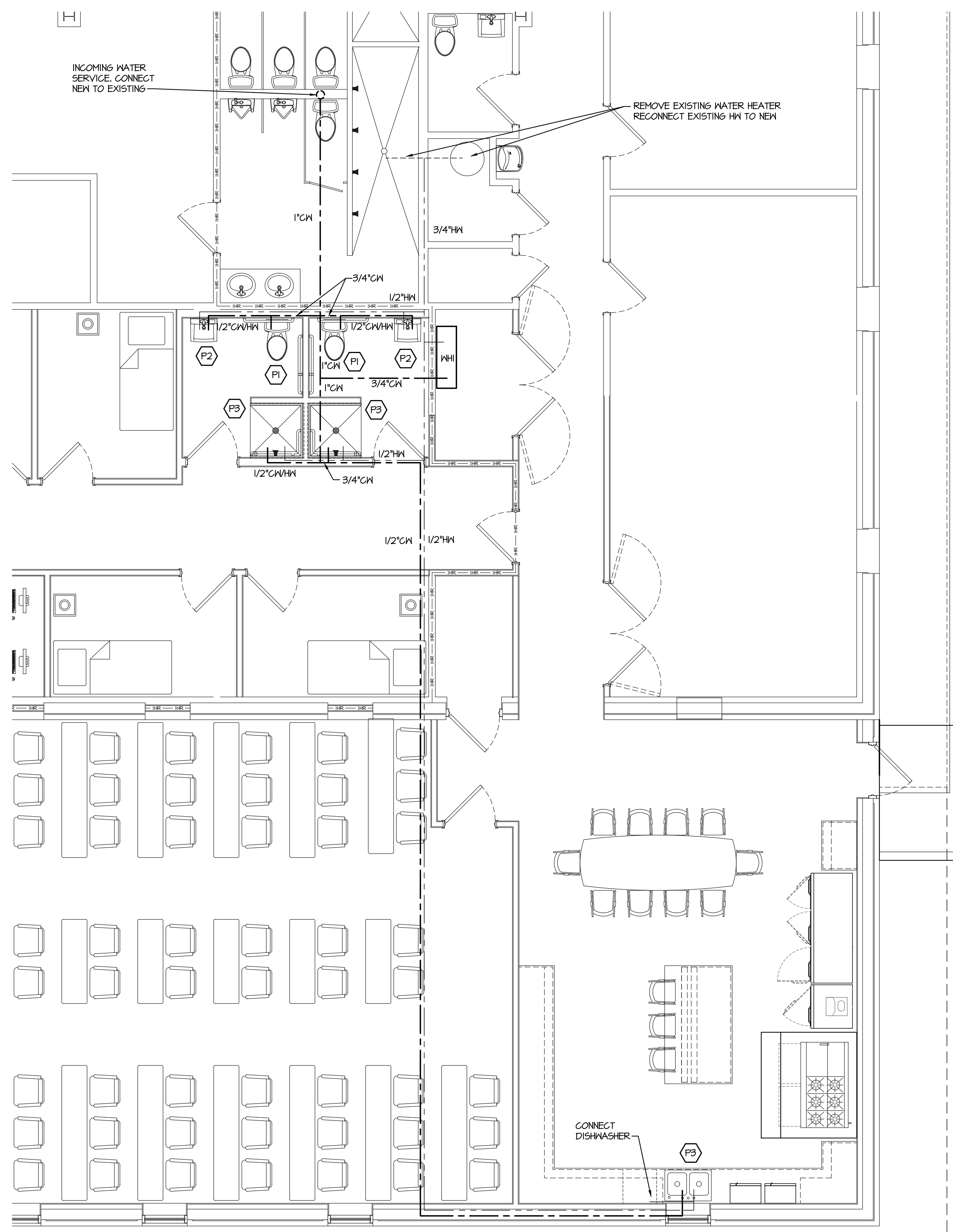
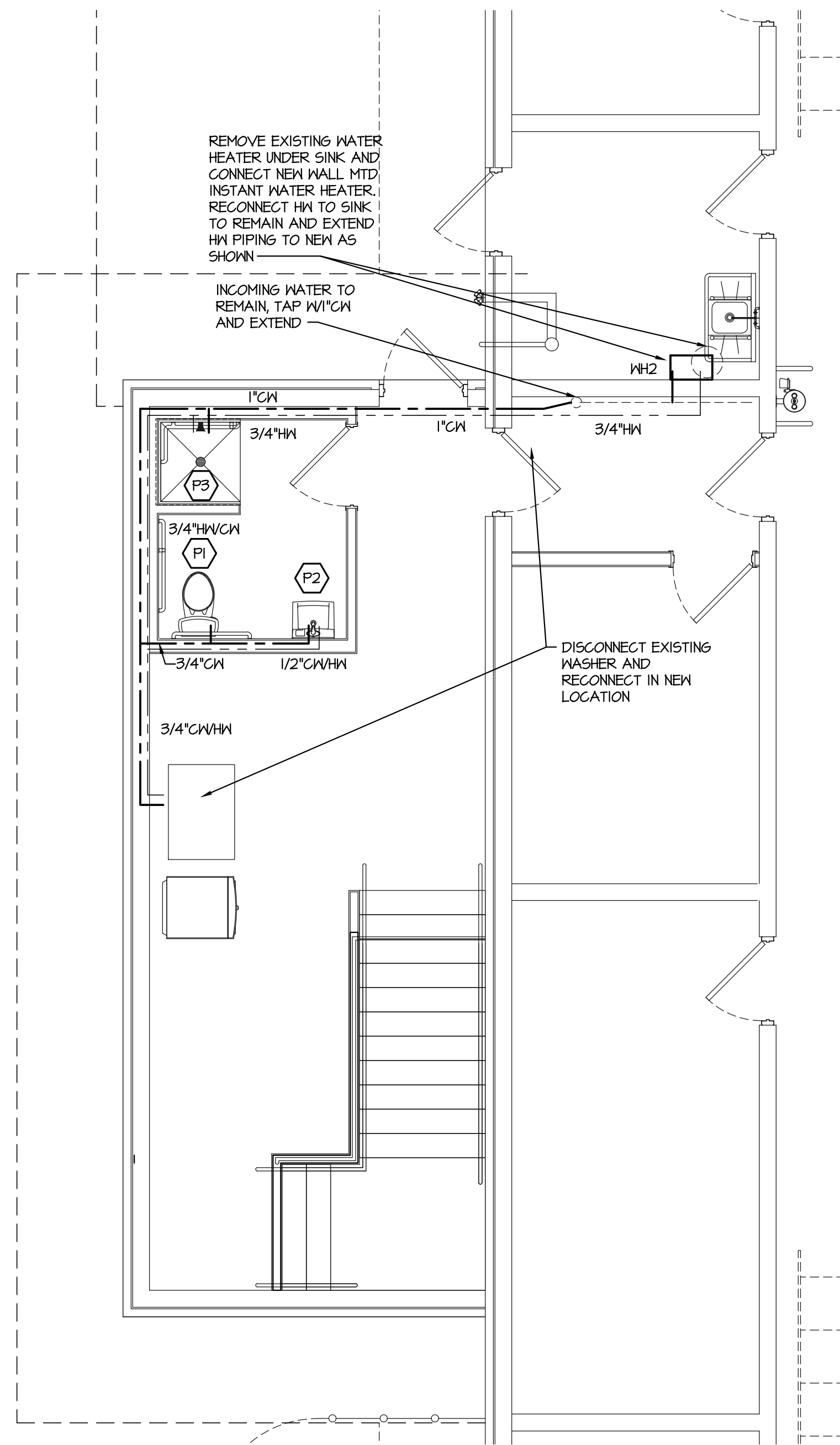
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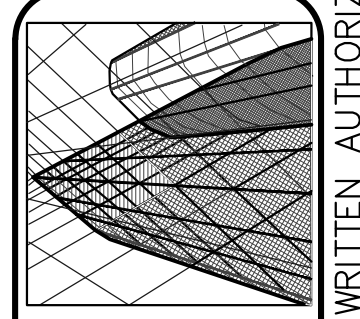
PLUMBING GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS LOCAL AND OTHER APPLICABLE CODES.
2. WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER INSULATED AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING AND ALL PIPING ABOVE FINISHED CEILINGS SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. PEX MAY BE USED WHERE ALLOWED BY CODE.
3. SANITARY SEWER LINES SHALL BE SCHEDULE 40 PVC.
4. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND BUILDING PLANS FOR WORK BY OTHERS.
5. LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES, ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED.
6. ALL PLUMBING LOCATED IN OR UNDER BEARING WALLS SHALL BE PROTECTED FROM BREAKAGE BY THE PLUMBING CONTRACTOR. SEE PLANS FOR LOCATION OF ALL BEARING WALLS. SEE STRUCTURAL DRAWINGS AND COORDINATE WITH GENERAL CONTRACTOR.
7. INTERIOR SANITARY CLEANOUTS SHALL BE PLACED AT A MAXIMUM OF 100LF FROM THE MOST UP STREAM POINT.

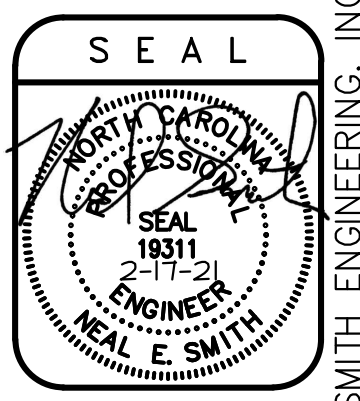
PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
---	CW	COLD WATER
---	HW	HOT WATER
---	SS	WASTE
---		VENT
⊥	VTR	VENT THROUGH ROOF
⊥	WCO	WALL CLEAN OUT
○	CO	FLOOR CLEANOUT
○	BCO	BUILDING CLEANOUT
+	HB	HOSE BIB, MOUNT 18" AFF
●	FD	3" FLOOR DRAIN W/PRIMER

ANGIER # BLACK RIVER FIRE DEPARTMENT
ANGIER, NC
WATER PLAN

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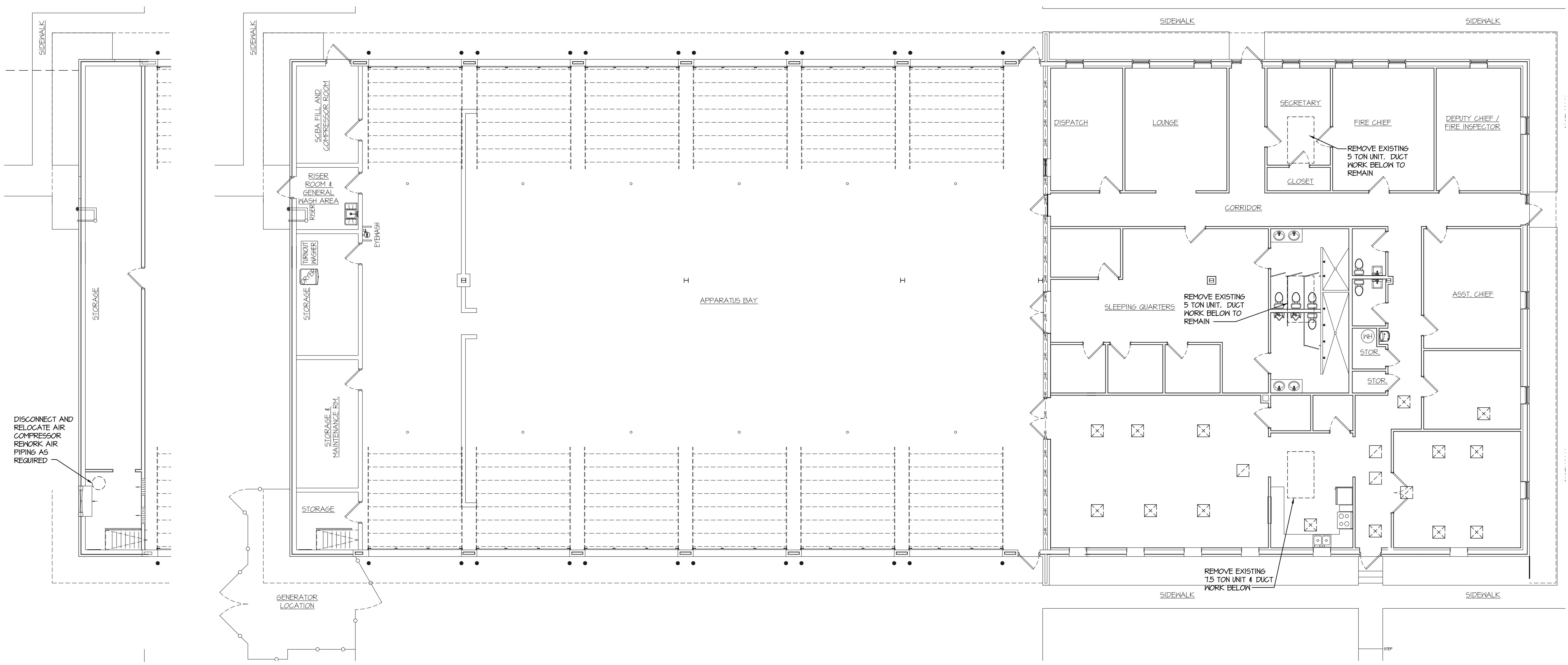
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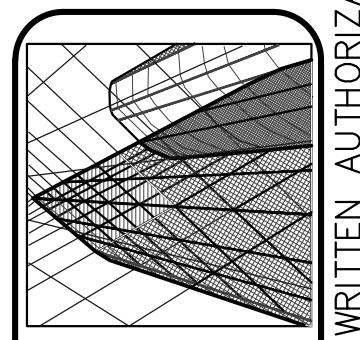
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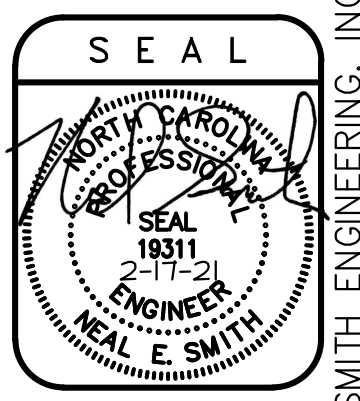
ANGIER & BLACK RIVER FIRE DEPARTMENT
 ANGIER, NC
MECHANICAL DEMOLITION PLAN

REVISIONS:

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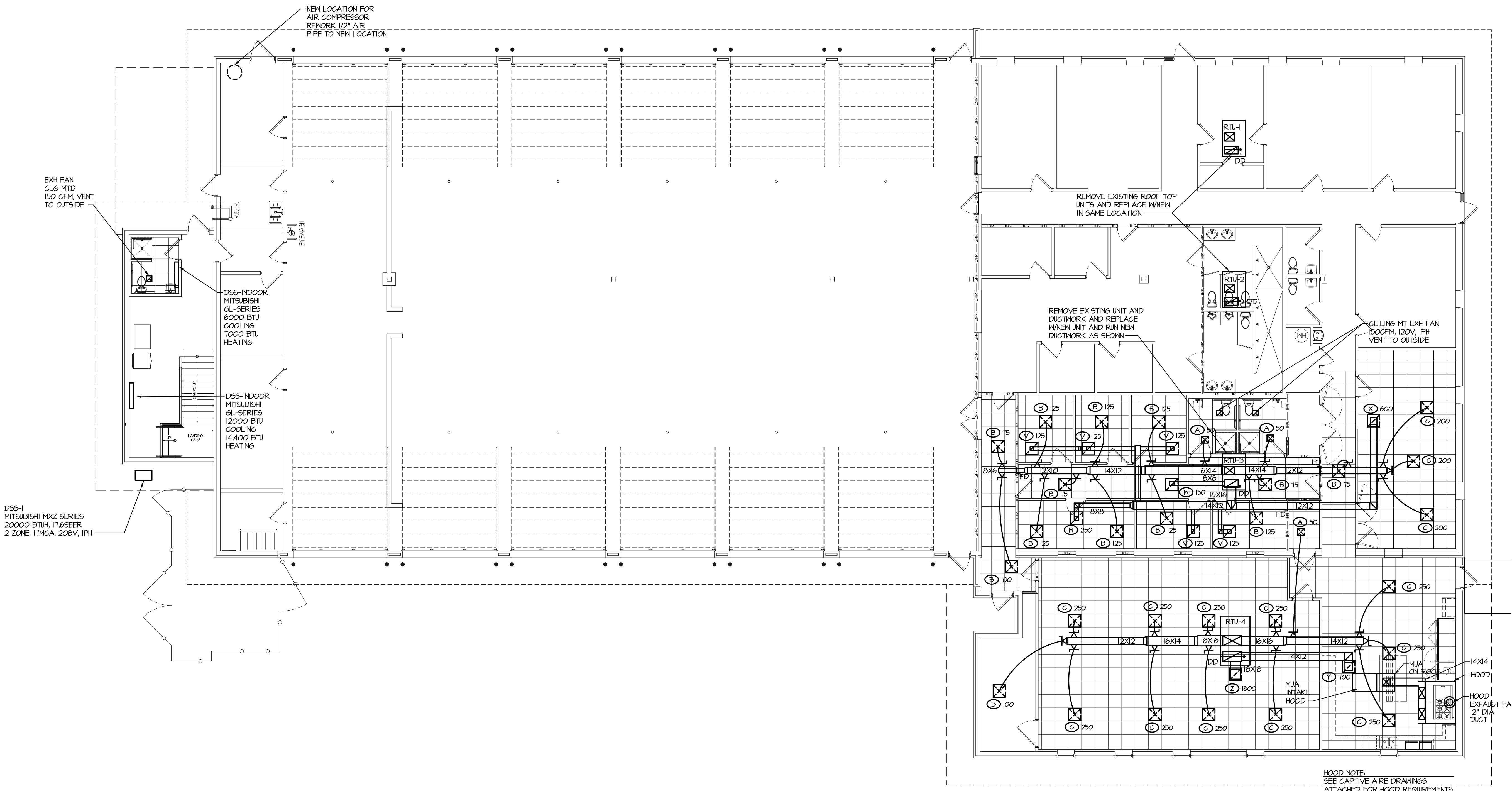
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LEGEND

SYMBOL	ABBREVIATION	DEFINITION
		SUPPLY AIR DIFFUSER
		RETURN AIR GRILLE
		OUTSIDE AIR
		EXHAUST FAN
		GRILLE, REGISTER, OR DIFFUSER DESIGNATION WITH CFM NOTED
		ELBOW WITH TURNING VANES
		FLEX DUCT WITH SPIN-IN CONNECTION AND VOLUME DAMPER
	CFM	CUBIC FEET PER MINUTE
	ESP	EXTERNAL STATIC PRESSURE
	FLA	FULL LOAD AMPS
	MCA	MINIMUM CIRCUIT AMPS
	OA	OUTSIDE AIR
	DD	DUCT DETECTOR

MECHANICAL SUMMARY - OFFICE AREA	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
Thermal Zone	
winter dry bulb:	22F
summer dry bulb:	22F
Interior design conditions	
winter dry bulb:	79.3F
summer dry bulb:	68.7F
relative humidity:	57%
Building heating load:	523M BTUH
Building cooling load:	22.5 Tons
Mechanical Spacing Conditioning System	
Unitary	
description of unit:	See Schedule Sheet E3
heating efficiency:	
cooling efficiency:	
size category of unit:	
Boiler	
Size category. If oversized, state reason:	
Chiller	
Size category. If oversized, state reason:	
List equipment efficiencies:	

ANGIER & BLACK RIVER FIRE DEPARTMENT
ANGIER, NC
MECHANICAL PLAN

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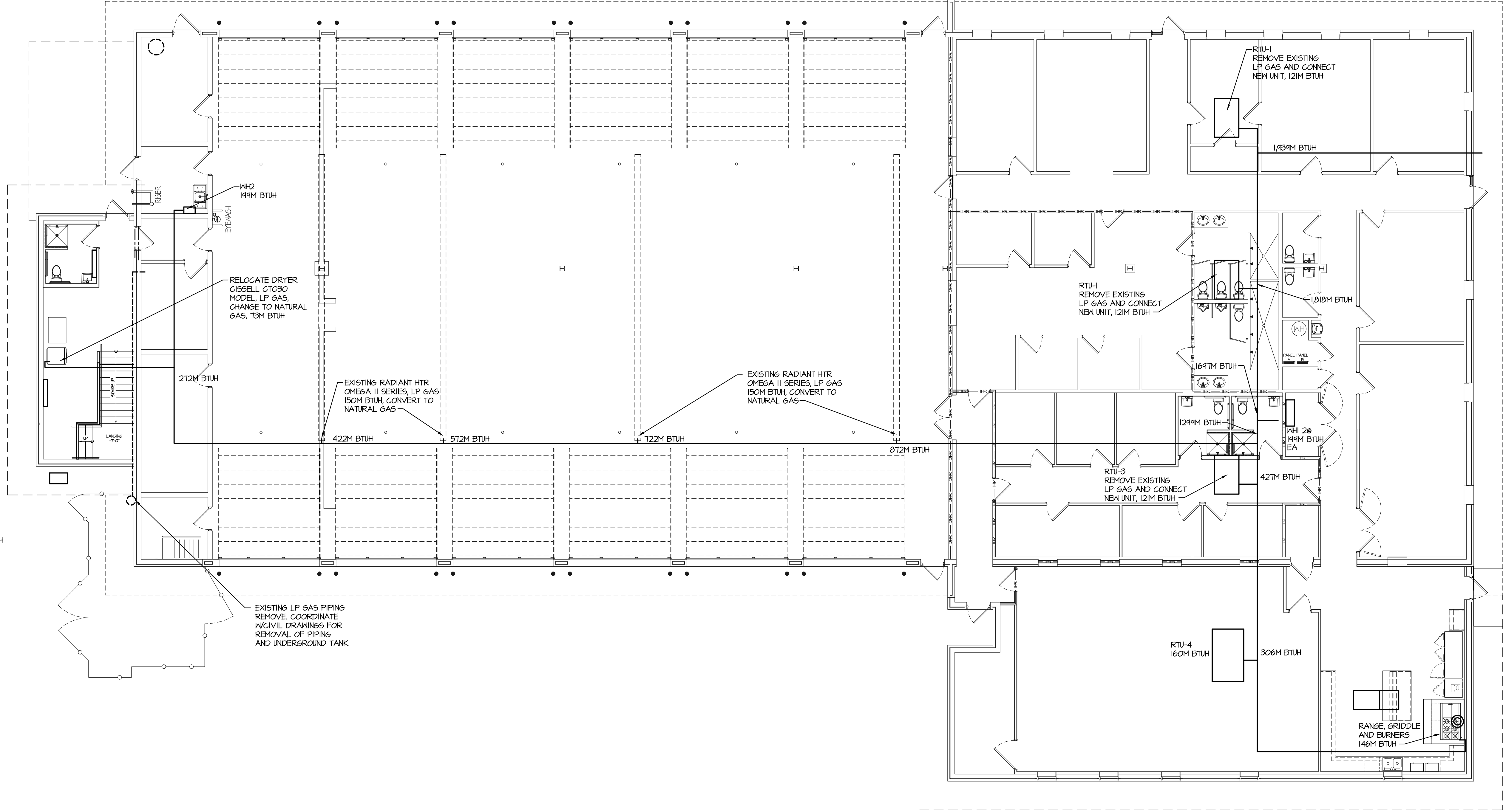
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NEAL E. SMITH
PROFESSIONAL ENGINEER
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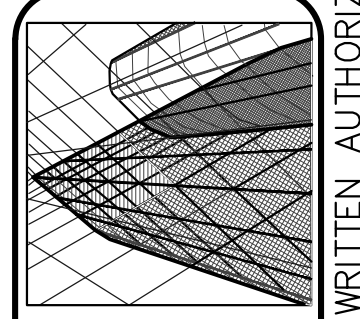
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SHI MXZ SERIES
BTUH, 1165SER
11MCA, 208V, 1PH

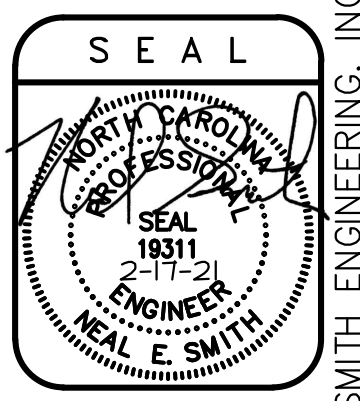


ANGIER # BLACK RIVER FIRE DEPARTMENT
ANGIER, NC
GAS PLAN

NO.	REVISIONS



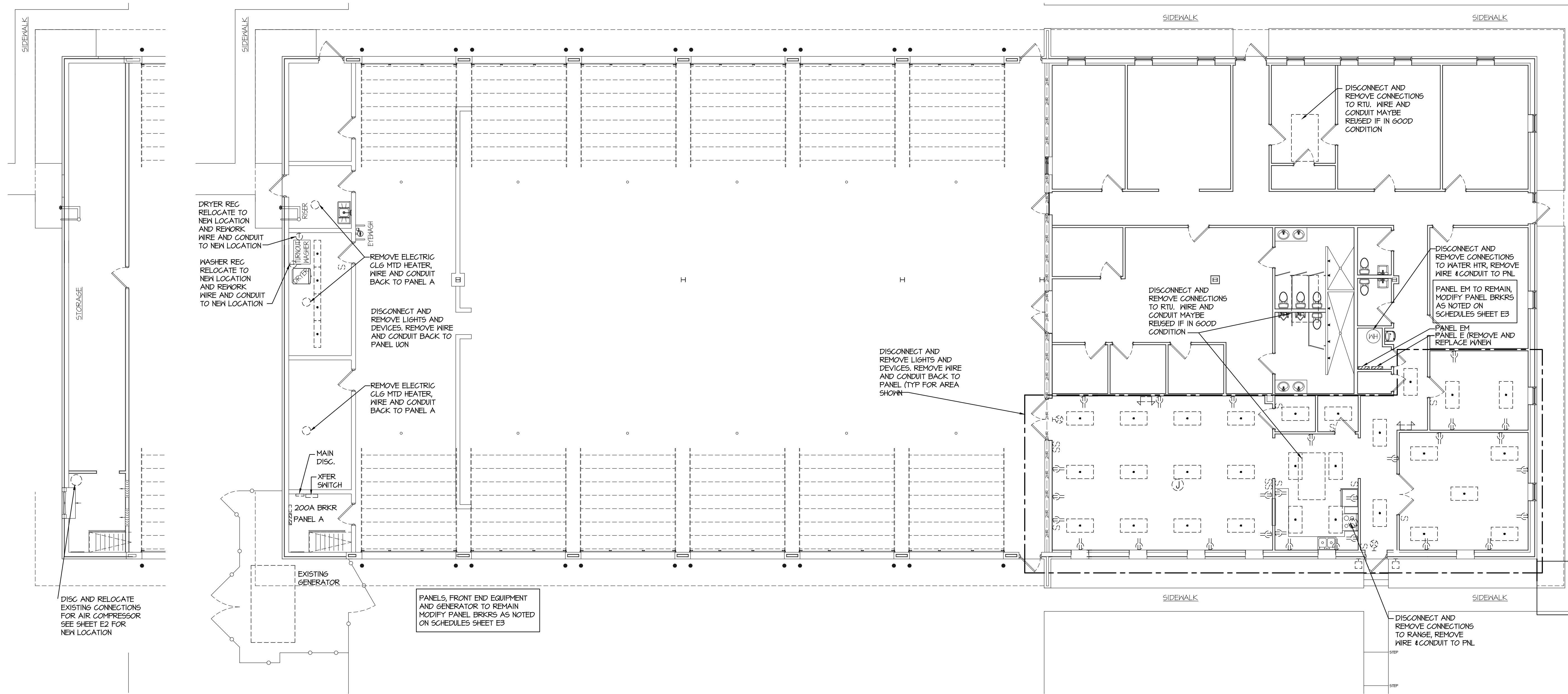
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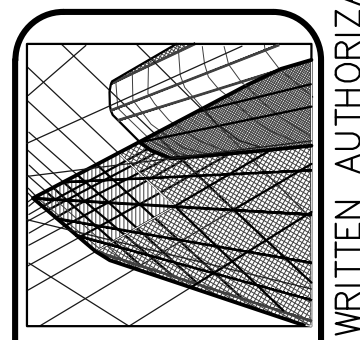


DEMOLITION LEGEND

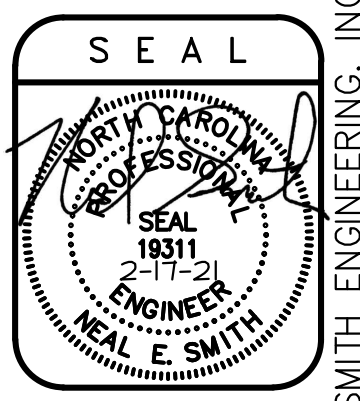
- LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE
- EMERGENCY BATTERY UNIT
- WALL MTD EXTERIOR LIGHT FIXTURE
- SWITCH
- DUPLEX RECEPTACLE
- RANGE RECEPTACLE
- PANELBOARD 120/208V, 3PH, 4W

ANGIER # BLACK RIVER FIRE DEPARTMENT
ANGIER, NC
ELECTRICAL DEMOLITION PLAN

NO.	REVISIONS



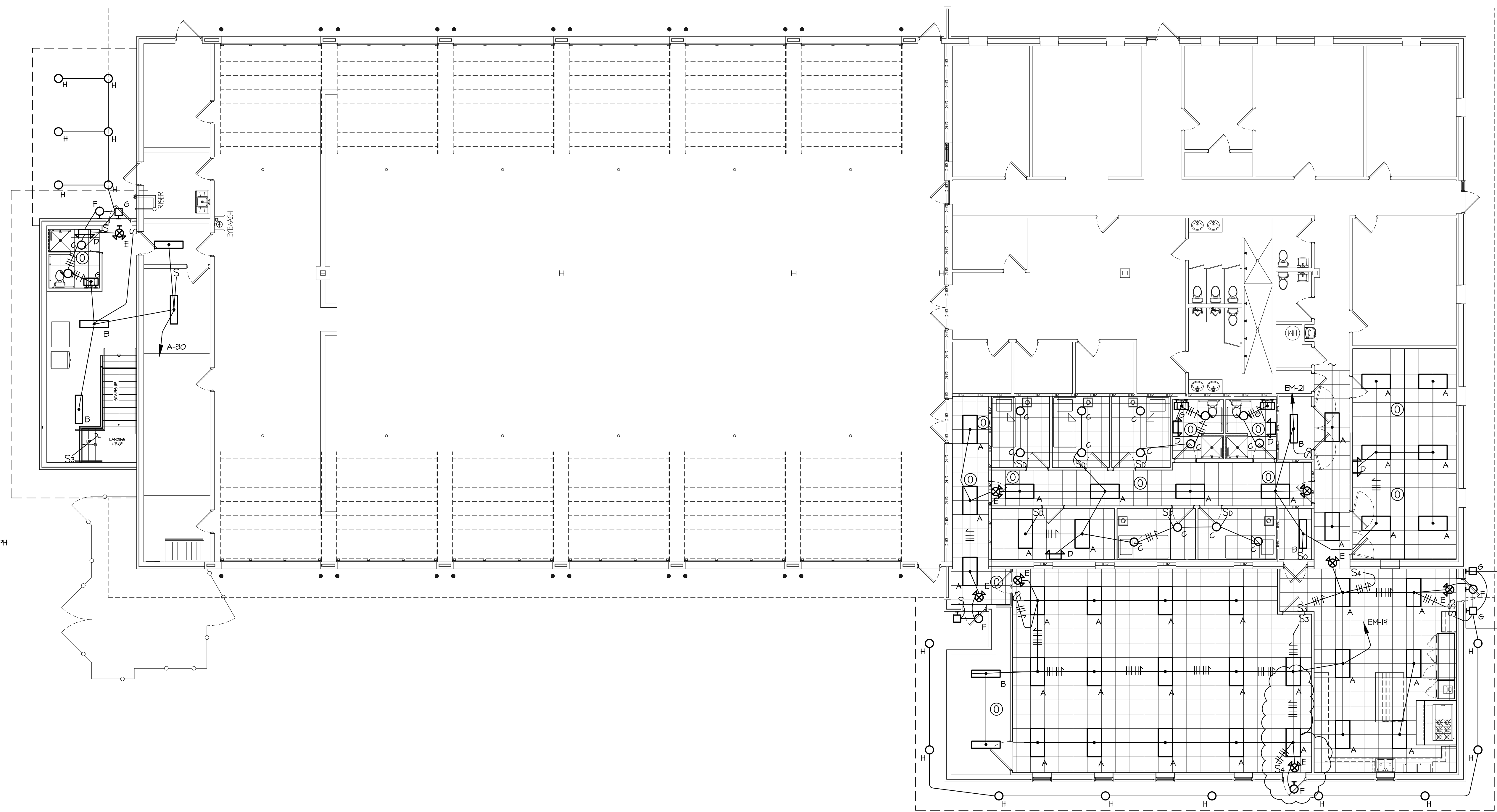
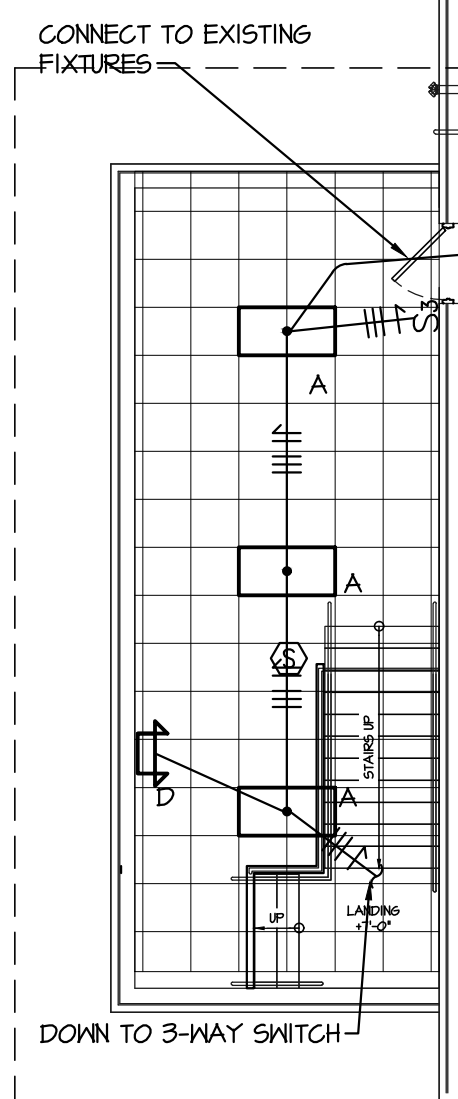
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LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP	WATTS	BALLAST	MOUNTING	REMARKS
A	ELITE ORACLE OR EQ	24FPL-BLLED4000LDIMOMVOLT40K85	LED	34	--	RECESSED	
B	ELITE ORACLE OR EQ	40ENLED4000LDIMOMVOLT40K85	LED	42	--	SURFACE	
C	ELITE ORACLE OR EQ	H#5LEDYDM30K18K1200LDIMOMVOLT	LED	34	--	RECESSED	TRIM HH5-550ICLWIND
D	MAXILUME OR EQ	ELM-LED-060	LED	3	--	WALL MTD	MIN 6'-8"
E	MAXILUME OR EQ	ELM-80T	LED	5	--	SURFACE	ABOVE DOOR
F	MAXILUME OR EQ	ELM-LED-060	LED	3	--	WALL MTD	ABOVE DOOR
G	LITHONIA OR EQ	OLTVNM BZ	LED	15	--	WALL MTD	MATCH EXISTING
H	LITHONIA OR EQ	6JBKRD2TK	LED	10	--	RECESSED	UL NET LABEL

ELECTRICAL SUMMARY - ADDITION/MODIFY AREA
ELECTRICAL SYSTEM AND EQUIPMENT

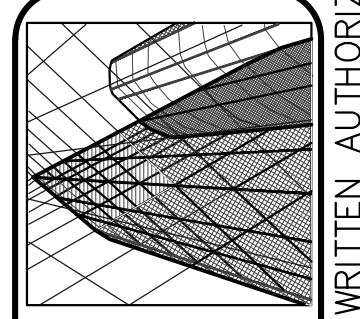
Method of Compliance
 Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting schedule: (each fixture type)
 Lamp type required in fixture: SEE SCHEDULE THIS SHEET
 Number of lamps in fixture: SEE SCHEDULE THIS SHEET
 Ballast type used in the fixture: SEE SCHEDULE THIS SHEET
 Number of ballasts in fixture: SEE SCHEDULE THIS SHEET
 Total wattage per fixture: SEE SCHEDULE THIS SHEET
 Total interior wattage specified vs allowed: 2001/3400
 (whole building or space by space)
 Total exterior wattage specified vs allowed: NA

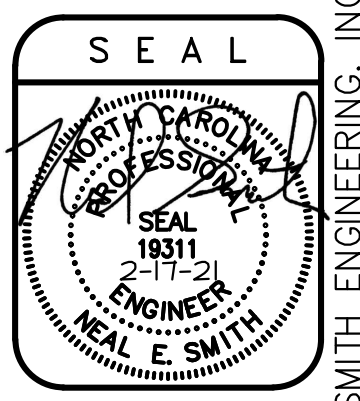
Additional Prescriptive Compliance
 C406.2 More Efficient HVAC Equipment Performance
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

ANGIER & BLACK RIVER FIRE DEPARTMENT
ANGIER, NC
LIGHTING PLAN

NO.	DATE	REVISIONS
1	2-17-21	SGH
2	1-17-21	SGH



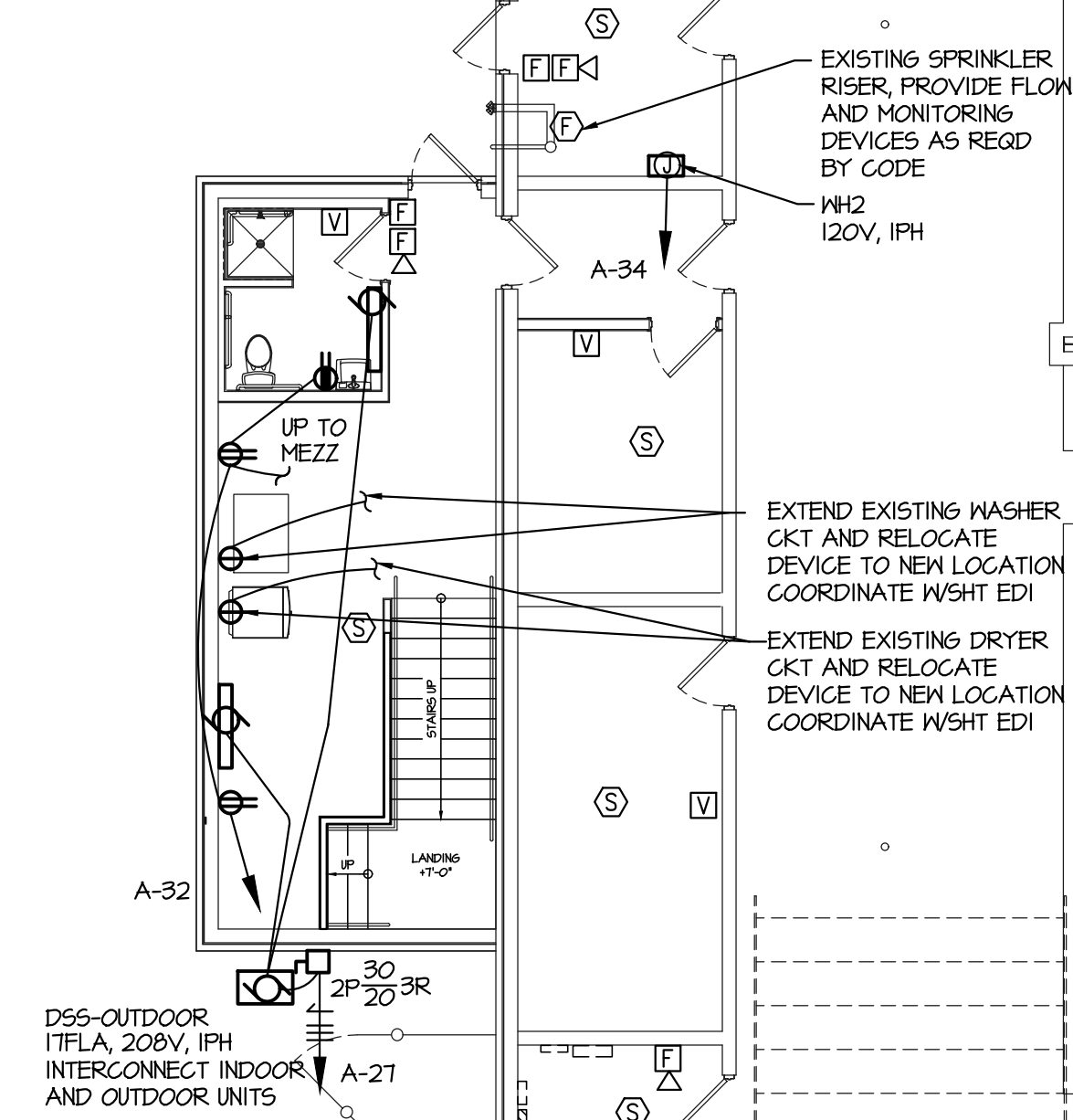
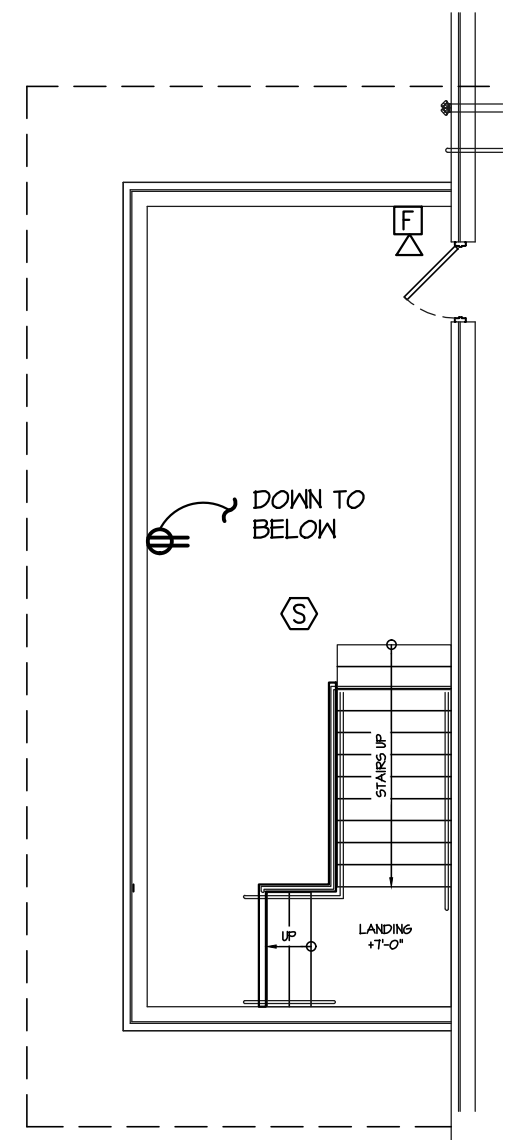
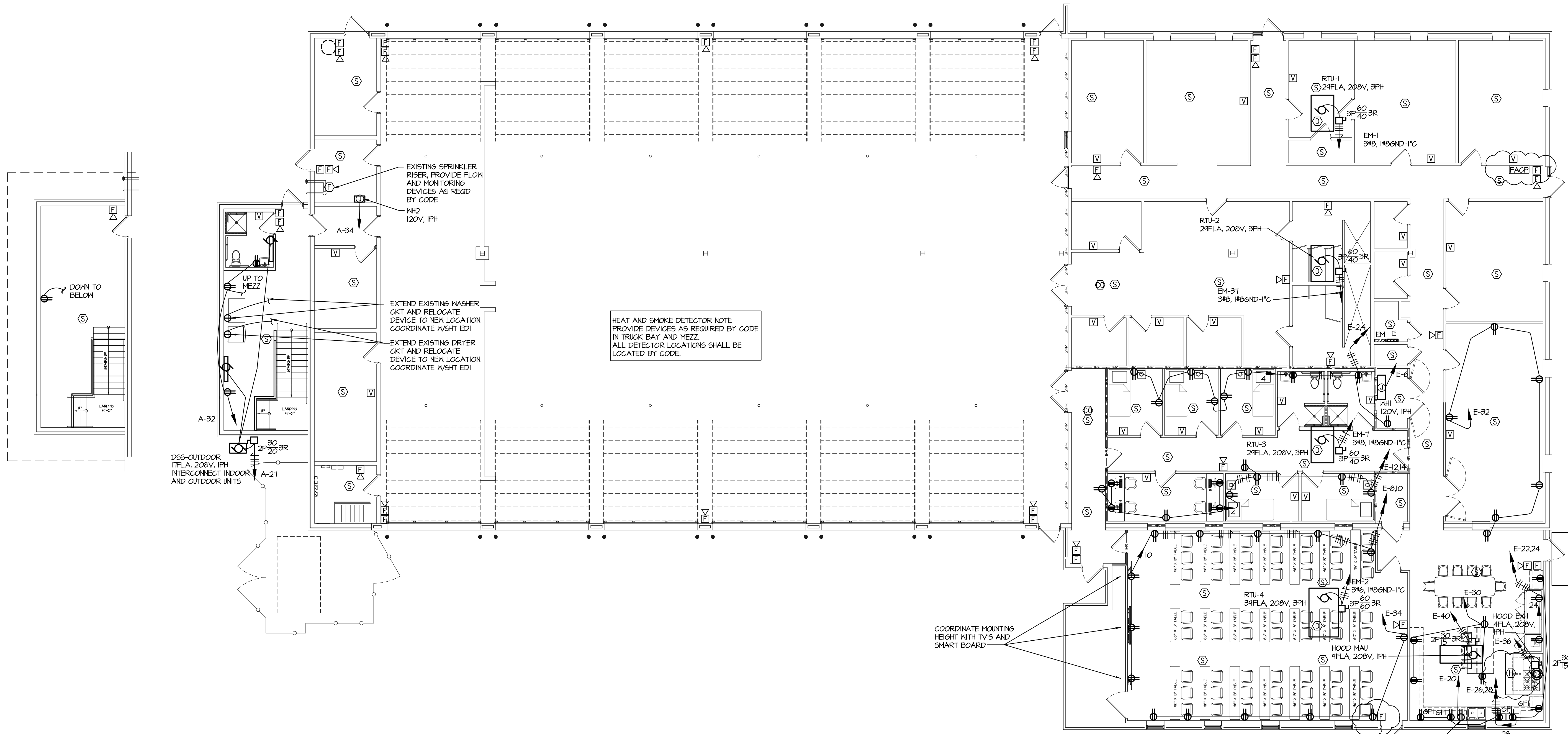
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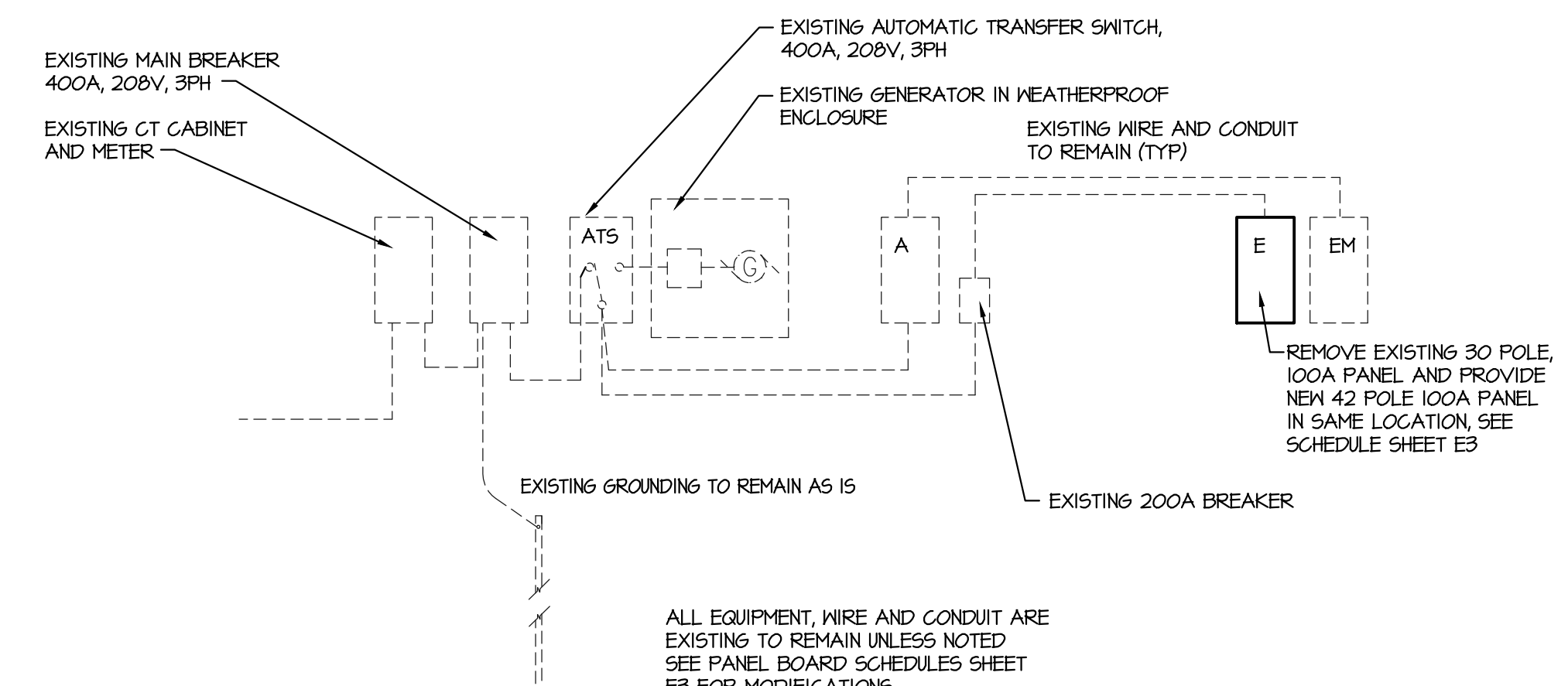
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HEAT AND SMOKE DETECTOR NOTE
 PROVIDE DEVICES AS REQUIRED BY CODE
 IN TRUCK BAY AND MEZZ.
 ALL DETECTOR LOCATIONS SHALL BE
 LOCATED BY CODE.

COORDINATE MOUNTING
 HEIGHT WITH TV'S AND
 SMART BOARD

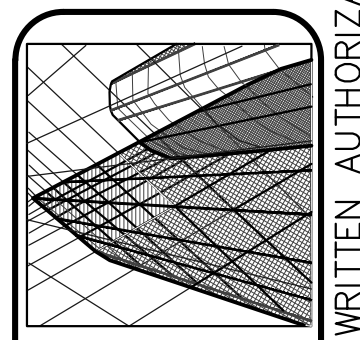


POWER RISER DIAGRAM
 NOT TO SCALE

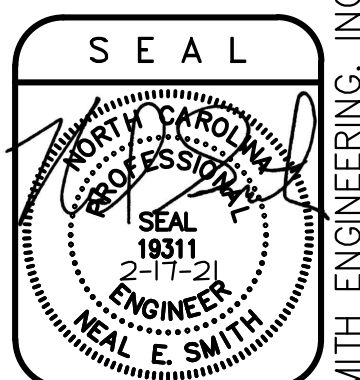
ALL EQUIPMENT, WIRE AND CONDUIT ARE
 EXISTING TO REMAIN UNLESS NOTED
 SEE PANEL BOARD SCHEDULES SHEET
 E3 FOR MODIFICATIONS.

ANGIER & BLACK RIVER FIRE DEPARTMENT
 ANGLIER, NC
POWER PLAN

NO.	DATE	DESCRIPTION
1	2-15-21	SGH
2	3-12-21	SGH
3	11-17-21	SGH



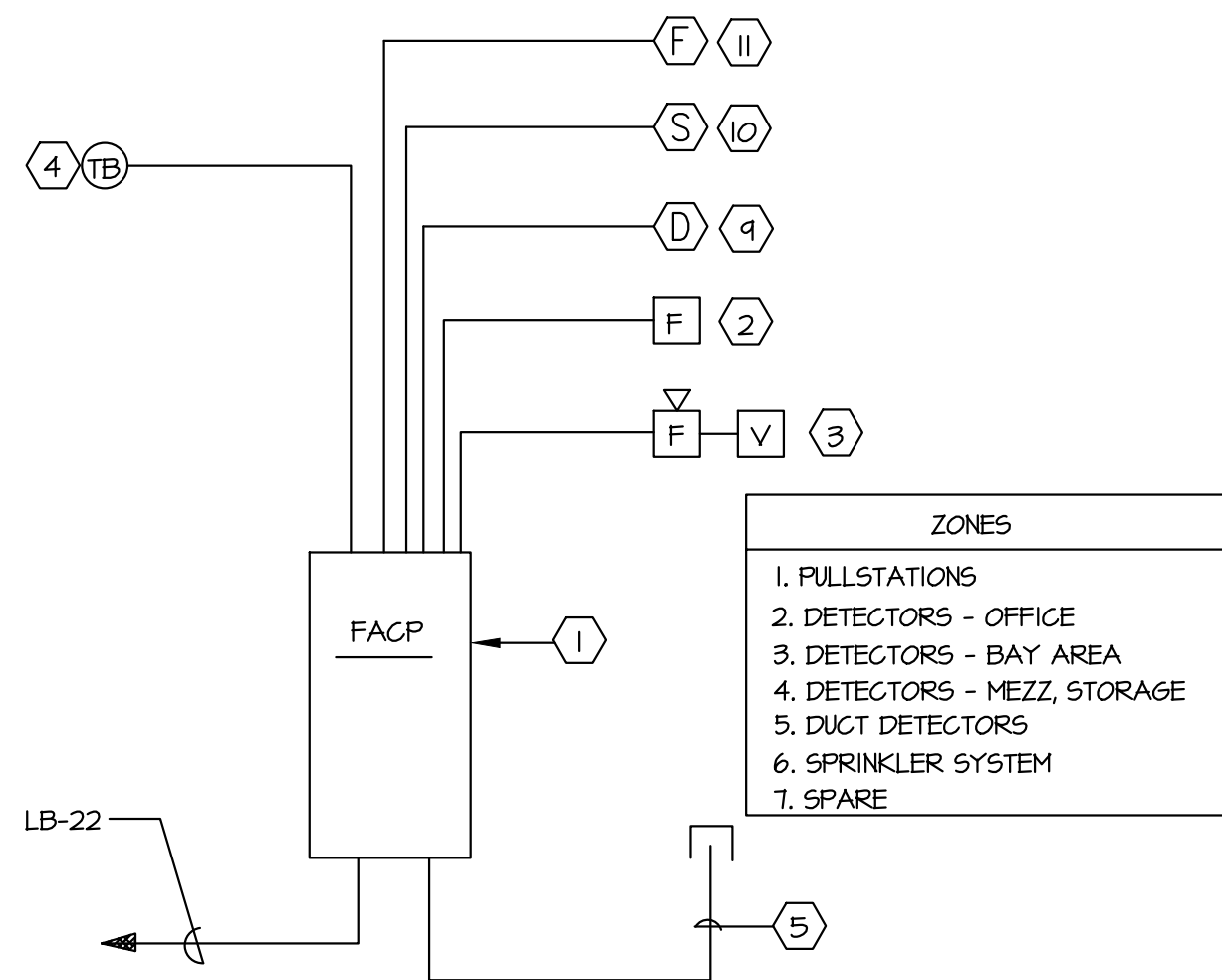
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FIRE ALARM RISER DIAGRAM NOTES

- FIRE ALARM CONTROL PANEL (FACP) SHALL BE ADDRESSABLE AND PROVIDED AND INSTALLED PER CODE
- FIRE ALARM PULL STATIONS SHALL BE NON-CODED, SINGLE ACTION TYPE.
- FIRE ALARM HORNS SHALL BE AUDIO VISUAL TYPE AND STROBES VISUAL ONLY
- REMOTE TROUBLE BELL, FLUSH MOUNT 8'-0" AFF.
- 3/4" C TO TELEPHONE BACKBOARD.
- WIRING SHALL BE #14 THIN COPPER, MINIMUM.
- WIRING SHALL BE IN CONDUIT, 1/2" MINIMUM.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE NC BUILDING CODES AND THE APPLICABLE NFPA CODES.
- DUCT DETECTORS, COORDINATE WITH MECHANICAL CONTRACTOR
- SMOKE DETECTORS OR HEAT DETECTORS, INSTALL NUMBER AND LOCATION PER CODE
- COORDINATE WITH EXISTING SPRINKLER SYSTEM AND PROVIDE FLOW AND MONITORING PER CODE
- PROVIDE SHOP DRAWINGS SHOW ALL EQUIPMENT BEING PROVIDED, CONNECTIONS AND CATALOG CUTS SHOWING SYSTEM IS PER CODE

FIRE ALARM RISER DIAGRAM

NOT TO SCALE

EXISTING PANEL 'A' SCHEDULE
200A, M.C.B., 120/208V, 3 PHASE, 4 WIRE, SN, GND BUS, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	Circuit Breaker	LOAD (AMPS)			LOAD SERVED
	A	B	C					A	B	C	
BAY LTS	E			20	12	1					PANEL E
BAY LTS		E		20	12	3				70	
BAY LTS			E	20	12	5				67	
BAY LTS	E			20	12	7					DRYER
BAY LTS		E		20	12	9				E	
BAY LTS			E	20	12	11				E	HOSE
BAY LTS	E			20	12	13					
BAY LTS		E		20	12	15				E	
BAY LTS			E	20	12	17				E	BREATHING MACH
BAY LTS	E			20	12	19				E	
PNL RM REC		E		20	12	21				E	
EF			E	20	12	23				E	WASHER
EF		E		20	12	25				E	STOR LTG
			E							E	STOR LTG
DSS			17	20	12	29				4	ADD. LTG
											2
HW HTR		E		20	12	33				6	ADD. REC
			E							8	WTR HTR
										E	STOR HTR
										E	STOR HTR
SPACE ONLY		0	--	--	--	34				E	SMOKE HOUSE PNL
LITE			E	20	12	41				E	

EXISTING PANEL 'EM' SCHEDULE
225A, M.L.O., 120/208 V, 3 PHASE, 4 WIRE, SN, GND BUS, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	Circuit Breaker	LOAD (AMPS)			LOAD SERVED
	A	B	C					A	B	C	
RTU-1	29			40	8	1					RTU-4
		29								39	
			29								39
RTU-3	29			40	8	7					BAY DOORS
		29									BAY DOORS
			29								BAY DOORS
SPARE	0			20	--	13					BAY DOORS
BATH		E		20	E	15					FRONT OFF LTS
BATH			E	20	E	17					FRONT OFF LTS
LTG-KIT MEETING	7			20	12	19					FRONT OFF LTS
LTG-SLEEP, BATH		11		20	12	21					SLEEP CT LTS
HALL LTG			E	20	E	23					SLEEP CT LTS
EXIT LTG		E		20	E	25					OUTSIDE LTS
SW CORNER LTG		E		20	E	27					OUTSIDE LTS
SOUTH OFF LTG			E	20	E	29					BAY REC
ROOF REC		E		20	E	31				0	SPARE
SPARE		0		20	--	33				0	SPARE
SO			0	--	--	35				0	SPARE
RTU-2	29			40	8	37				0	SO
		29								0	SO
			29							0	SO

PANEL 'E' SCHEDULE
(REPLACE EXISTING 30 POLE PNL WITH NEW, RECONNECT EXISTING CKTS)
100A, M.L.O., 120/208 V, 3 PHASE, 4 WIRE, SN, GND BUS, SURFACE MOUNT

LOAD SERVED	LOAD (AMPS)			BKR TRIP	WIRE SIZE	CKT NO.	Circuit Breaker	LOAD (AMPS)			LOAD SERVED		
	A	B	C					A	B	C			
SOUTH OFF REC	5			20	12	1				6	REC-BATH		
FRONT OFF REC		5		20	12	3				6	REC-SLEEP QTR		
FRONT OFF REC			5	20	12	5				8	WTR HTR		
SOUTH OFF REC	5			20	12	7				6	REC-MEETING		
NORTH OFF REC		5		20	12	9				6	REC-MEETING		
SRAIR			5	20	12	11				6	REC-SLEEP QTR		
NORTH COR REC	5			20	12	13				6	REC-COMPUTER RM		
OFF REC		5		20	12	15				6	REC		
FRONT OFF REC			5	20	12	17				6	OFFICE REC		
NORTH OFF REC	5			20	12	19				6	DISHWASHER		
SPARE		0		20	--	21				8	KIT REFRIGERATOR		
EW			5	20	12	23				8	KIT FREEZER		
ICE MACHINE		8		20	12	25				6	KIT REC		
			8							6	KIT REC		
SPARE		0		20	--	29				6	KIT ISLAND		
SPARE	0			20	--	31				6	REC-WORKOUT		
SPARE		0		20	--	33				6	REC-MEETING RM		
SPARE		0		20	--	35				15	HOOD EXH FAN		
SPARE	0			20	--	37				4			
SPARE		0		20	--	39				15	HOOD MUA		
SPARE			0	20	--	41				15			
TOTAL	28	23	20							40	47	47	TOTAL

TOTAL CONNECTED AMPS A:68 B:70 C:67

PANEL 'A' NOTES

- DISCONNECT AND REMOVE WTR HTR CONNECTION CONNECT DSS TO EXISTING 20/2P BRKR.
- DISCONNECT AND REMOVE CL6 MTD HTRS (SEE PLAN AND CONFIRM BRKR CONNECTION) CONNECT LIGHTING CKT AS SHOWN ON SHT E1
- DISCONNECT AND REMOVE CL6 MTD HTRS (SEE PLAN AND CONFIRM BRKR CONNECTION) CONNECT RECEPT CKT AS SHOWN ON SHT E2
- DISCONNECT AND REMOVE CL6 MTD HTRS (SEE PLAN AND CONFIRM BRKR CONNECTION) CONNECT WTR HTR CKT AS SHOWN ON SHT E2

PANEL 'EM' NOTES

- DISCONNECT AND REMOVE RTU CONNECTION REPLACE 60A/3P WITH 40A/3P AND CONNECT NEW RTU AS NOTED
- DISCONNECT AND REMOVE RTU CONNECTION AND CONNECT NEW RTU AS NOTED
- PROVIDE 40A/3P BRKR IN EXISTING SPACE FOR RTU CONNECTION
- DISCONNECT AND REMOVE CL6 MTD HTRS (SEE PLAN AND CONFIRM BRKR CONNECTION) CONNECT WTR HTR CKT AS SHOWN ON SHT E2

LIGHTING

- LED LIGHTING FIXTURE
- EXIT COMBO LIGHTING FIXTURE, CONNECT AHEAD OF SWITCH
- EMERGENCY BATTERY UNIT, CONNECT AHEAD OF SWITCH
- EMERGENCY LIGHT, EXTERIOR, CONNECT AHEAD OF SWITCH
- WALL MTD EXTERIOR LIGHT FIXTURE
- CEILING MTD OCCUPANCY SENSOR - PROVIDE PER MANUFACTURER RECOMMENDATIONS
- SINGLE POLE SWITCH - 20A, 125/277V, MOUNT 48" AFF
- WALL MTD OCCUPANCY SENSOR/SWITCH, MOUNT 48" AFF
- FOUR WAY SWITCH - 20A, 125/277V, MOUNT 48" AFF
- THREE WAY SWITCH - 20A, 125/277V, MOUNT 48" AFF

RECEPTACLES

- DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W GND TYPE, MOUNT 18" AFF, UON
- DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GND TYPE, MOUNT 48" AFF OR 6" ABOVE COUNTER TOP BEING SERVED, UON
- INDICATES GROUND FAULT INTERRUPTING RECEPTACLE
- INDICATES WEATHERPROOF INSTALLATION, PROVIDE CAST METAL BOX WITH GASKETED COVER PLATE.

POWER

- JUNCTION BOX, CONNECTION AS NOTED OR REQUIRED
- MOTOR CONNECTION - RATING AS INDICATED ON THE DRAWINGS
- PANELBOARD 120/208V, 3PH, 4W
- BRANCH CIRCUIT HOMERUN - PANEL LA, CIRCUITS #1 AND #3, TICK MARKS INDICATE WIRE COUNT IF MORE THAN TWO #12 AND A GROUND. FLAGGED TICK MARK (F) INDICATES GROUND WIRE.
- DISCONNECT SWITCH, 600V IN NEMA 1 ENCLOSURE U.O.N. 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE)

FIRE ALARM

- FIRE ALARM CONTROL PANEL
- FIRE ALARM FULLSTATION - MOUNT 48" AFF
- FIRE ALARM AUDIO VISUAL SIGNAL DEVICE - MOUNT 6" BELOW CEILING OR 80" AFF
- FIRE ALARM SMOKE DETECTOR - DUCT DETECTOR
- FIRE ALARM TROUBLE BELL
- FIRE ALARM VISUAL SIGNAL - MOUNT 6" BELOW CEILING BUT NOT HIGHER THAN 80" AFF
- SMOKE OR HEAT DETECTOR PER CODE
- SPRINKLER SYSTEM CONNECTIONS

ELECTRICAL NOTES

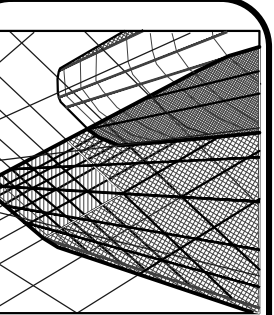
- WIRE AND CABLE SHALL BE INSULATED, TYPE THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MUST BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX OR ALUMINUM PERMITTED.
- EMT SHALL BE GALVANIZED STEEL TUBING, 3/4" MINIMUM SIZE, EQUAL TO ELECTRINITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS. MC CABLE WILL BE ALLOWED.
- FLEXIBLE METAL CONDUIT SHALL BE 1/2" MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 12 INCHES FOR LIGHTING AND 36" FOR MOTORS.
- ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG
- CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF REQUIRED BY THE NEG. PANELBOARDS SHALL BE SQ D NOOD OR EQUAL.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE OWNER, PRIOR TO INSTALLATION, FOR USE WITH THE ACTUAL EQUIPMENT. WIRING DEVICES SHALL BE HUBBELL, BRYANT OR LEVITON.
- EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL REFER TO THE BUILDING PLANS FOR FLOOR PLAN DIMENSIONS.
- THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE.
- WHERE EQUIPMENT PENETRATES WALLS THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER.

ANGIER & BLACK RIVER FIRE DEPARTMENT

ANGIER, NC

LEGEND AND SCHEDULES

REVISIONS



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FOR CONSTRUCTION
DATE: 2-17-21
JOB NUMBER: 20000529
DRAWING KEY: E3

RELEASED
for
CONSTRUCTION

DRAWN BY: SGH
SCALE: NONE
DATE: 2-17-21
JOB NUMBER: 20000529
DRAWING KEY: E3

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