

2018 APPENDIX B  
BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

Reviewed for Code Compliance

05/23/2024

Harnett COUNTY  
NORTH CAROLINA

Name of Project: **New Champs Convenience Store**

Address: **8920 US HWY 401 N Fuquay-Varina, NC** Zip Code: **27526**

Owner Or Authorized Agent: **Arbit Patel** Ph#: **910-980-6049** Email: **hcp162@gmail.com**

Owned By:  City / County  Private  State

Code Enforcement Jurisdiction:  City  County **Harnett**  State

CONTACT: **Robert J. Bracken, Jr. - P.E.**

DESIGNER:	FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Engineer	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
Civil					
Electrical	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
Fire Alarm					
Plumbing	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
Mechanical	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
Sprinkler - Standpipe					
Structural					
Retaining Wall > 5' High					
Other					

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

2018 NC CODE BUILDING CODE:  New Building  Addition  Renovation

1st Time Interior Completion

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 EXISTING BUILDING CODE: EXISTING:  Prescriptive  Repair  Chapter 14

Alteration:  Level I  Level II  Level III

Historic Property  Change of Use

CONSTRUCTION: (Date) \_\_\_\_\_ CURRENT OCCUPANCY (S) (Ch. 3): \_\_\_\_\_

RENOVATED: (Date) \_\_\_\_\_ PROPOSED OCCUPANCY (S) (Ch.3): \_\_\_\_\_

OCCUPANCY 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-A  I-B  II-B  III-B  IV-B

Sprinklers:  No  Partial  Yes  NFPA 13R  NFPA 13D

Standpipes:  No  Yes 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)

FLOOR	Existing (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		6,600 sq ft	6,600 sq ft
Basement			
TOTAL			6,600 sq ft

Primary Occupancy (s): (Select One)

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 Combat  H-4 Health  H-5 HPM

Institutional  I-1 Condition  I 2

1-2 Condition  1  2

1-3 Condition  1  2  3  4  5

1-4

Mercantile  9,000 sq ft

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): \_\_\_\_\_

Incidental Uses (Table 509): \_\_\_\_\_

Special Uses (Chapter 4 - List Code Section): \_\_\_\_\_

Special Provisions: (Chapter 5 - List Code Sections): \_\_\_\_\_

Mixed Occupancy:  Yes Separation: \_\_\_\_\_ 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 (509.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1.00  
Allowable Area of Occupancy A + Allowable Area of Occupancy B ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE 1,5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 2,3

1. Frontage area increase from Section 506.2 are 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) = \_\_\_\_\_ (R)  
d. W = Minimum width of public way = \_\_\_\_\_ (W)  
e. Percent of fringe increase = 1 + 100 (R - 0.25) W / 30 = \_\_\_\_\_ (%)

2. Unlimited area applicable under conditions of Section 507.

3. Maximum Building Area = total number of stories in building x D (maximum 3 stories) 506.2

4. The maximum Area of open parking garages must comply with Table 406.5.4 The Maximum area of air traffic control towers must comply with Table 412.3.1.

5. Frontage increase is based on the unsprinklered area value in Table 506.2

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40	25	T 504.3
Building Height in Stories (Table 504.4)	ONE	ONE	T 504.4

Provide code reference if the "Shown on Plans" quality is not based on Table 504.3 or 504.4

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REVD	DETAIL # AND SHEET #	DESN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders & trusses						
Bearing walls						
Exterior						
North	35'	+				
East	35'	+				
West	35'	+				
South	35'	+				
Interior						
Nonbearing walls and partitions						
Exterior Walls						
North						
East						
West						
South						
Interior walls & partitions						
Floor construction including supporting beams & joist						
Floor Ceiling Assembly						
Columns Supporting Floors						
Roof construction including supporting beams & joist						
Roof Ceiling Assembly						
Columns Supporting Roof						
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation	18'		W-L-1195	V-480		
Occupancy / Fire Barrier Separation						
Party / Fire Wall Separation						
Smoke Partition						
Tenant / Dwelling Unit						
Sleeping Unit Separation						
Incidental Use Separation						

\* Indicates section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS N/A			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREES OF OPENING PROTECTION (TABLE 703.4)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:  No  Yes

Exit Signs:  No  Yes

Fire Alarm:  No  Yes

Smoke Detection Systems:  No  Yes  Partial

Panic Hardware:  No  Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # **LS-1**

Fire and / or smoke rated walls locations (Chapter 7)

Assumed and real property line locations. (If not on site plan)

Exterior wall opening area with respect to distance to assumed property line (705.8)

Occupancy Use for each area as it relates to occupant load calculations (Table 1004.1.2)

Occupant loads for each area.

Exit access travel distance (1017)

Common path of travel distance (Tables 1006.2.1 & 1006.3.2(1))

Dead end lengths (1020.4)

Clear exit widths for each door.

Maximum calculations occupant load capacity each exit door can accommodate based on egress width (1005.5)

Actual occupant load for each exit door.

A separate schematic plan indicating where fire rated floor / ceiling and / or roof structures provided for purpose 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 electromagnetic 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.

ACCESSIBLE DWELLING UNITS N/A (Section 1107)

TOTAL UNITS	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 SEE SITE PLAN (Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES	REGULAR WITH 'A' SPACES WITH ACCESSIBLE	REGULAR WITH 'B' SPACES WITH ACCESSIBLE	TOTAL # ACCESSIBLE PROVIDED

PLUMBING FIXTURE REQUIREMENTS (Table 2902.1)

USE	Water Closets	Urinals	Lavatories	Showers	Drinking Fountains
Existing	1	1	1	1	1
New	1	1	1	1	1
Required	1	1	1	1	1

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc. described below)

**NONE**

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special structure 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:  No  Yes (The remainder of this is not applicable)

Exempt Building:  No  Yes (Provide code or statutory reference):

Climate Zone:  3A  4A  5A

Method of Compliance: Energy Code  Performance  Prescriptive ASHRAE 90.1  Performance  Prescriptive (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof / Ceiling (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Skylights in each assembly: \_\_\_\_\_  
U-Value of skylights: \_\_\_\_\_  
total square footage of skylights in each assembly: \_\_\_\_\_

Exterior Walls (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Openings (windows or doors with glazing)

Wall

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

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Horizontal / vertical requirement: \_\_\_\_\_  
Slab height: \_\_\_\_\_

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factor: Snow (I)  1.0  1.2 Seismic (I<sub>s</sub>)  1.0  1.2

Live Loads: Roof  20 psf Mezzanine  20 psf Floor  100 psf

Ground Snow Load: \_\_\_\_\_

Wind Load: Basic Wind Speed  115 mph (ASCE-7) Exposure Category  B  C

SEISMIC DESIGN CATEGORY:  A  B  C  D

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5)  I  II  III  IV

Special Response Acceleration  0.5  0.75  1.0  1.5  2.0

Site Classification (ASCE 7)  A  B  C  D  E  F

Data Source:  Field Test  Presumptive  Historical Data

Basic structural system  Bearing Wall  Dual w/ Special Moment Frame  Building Frame  Dual w/ Intermediate R/C or Special Steel  Moment Frame  Inverted Pendulum

Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic Architectural, Mechanical, Components anchored?  Yes  No

LATERAL DESIGN CONTROL: Earthquake  Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) \_\_\_\_\_ psf

Presumptive Bearing capacity  2000 psf

Pile size, type, and capacity \_\_\_\_\_

System No. **W-L-1195**

**F Rating - 1 and 3 Hr (See Item 1)**

**T Rating - 34 and 1-1/4 Hr (See Item 1)**

SECTION A-A

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 specified in the individual U200 or U400 series Wall and Partition Design in 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 with nom 2 by 4 in. lumber end plates and spaced max 24 in. OC.  
B. Gypsum Board - Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 3-1/2 in.  
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating is 34 and 1-1/4 hr for 1 and 2 hr rated assemblies, respectively.

2. Through Penetrating Product - Flexible Metal Piping - Nom 2 in. diam (or smaller) metal flexible metal piping. Max one flexible metal pipe to be installed concentrically or eccentrically within opening. The annular space between piping and periphery of opening shall be both sides of wall assembly. Plastic covering on piping as removed on both sides of wall assembly.

OMEGA FLEX INC - IncPipe

3. Fill Void or Cavity Material - Sealant - Min 5/8 in. sealant of fill material for 1 and 2 hr fire-rated wall assembly. Apply within the annulus, finish with both surface. An additional 1/2 in. diam bead of fill material applied at board/penetrant interface at point contact location on both sides of wall.

JORNS MANVILLE INTERNATIONAL INC - Fire Stopping the UL Classification Mark

MECHANICAL SUMMARY (PROVIDE IN THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SYSTEMS, SERVICES AND EQUIPMENT

Thermal Zone **4A**  
winter dry bulb: **20°**  
summer dry bulb: **94°**

Interior design conditions:  
winter dry bulb: **72°**  
summer dry bulb: **75°**  
relative humidity: **50%**

Building heating load: **63,379 Btu**  
Building cooling load: **150,367 Btu**

Mechanical Spacing Conditioning System  
Unitary

description of unit:  
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: \_\_\_\_\_

ELECTRICITY SUMMARY (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SYSTEM AND EQUIPMENT  
Method of Compliance: Energy Code:  Performance  Prescriptive ASHRAE 90.1  Performance  Prescriptive

Lighting schedule (Each fixture type)  
lamp type required in fixture:  
number of groups in fixture:  
ballast type used in the fixture:  
number of ballast in fixture:  
total wattage per fixture:  
total interior wattage specified vs allowed: (whole building) \_\_\_\_\_ space by space

SEE SHEET E-2

Additional Efficiency Package Options  
(When using the 2018 NEC, not required for ASHRAE 90.1)

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 Systems

C406.7 Reduced Energy Use in Service Water Heating

Design No. **U-619**  
Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 1 & 2)

For Number of Layers and Hourly Ratings See Item 1

1. Roof and Ceiling Runners - (Not shown) - Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size with min 1 in. long legs attached to floor and ceiling with fasteners 24 in. OC max.

2. Steel Studs - Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be out 3/8 to 3/4 in. less than assembly height.

3. Rails and Blankets\* - (Required as indicated under Item 4) - Min 1/2 in. wood batts, gasket fitted between studs and runners. Min room thickness as indicated under Item 4. See Rails and Blankets (BKNV or BZZJ) Categories for names of Classified components.

4. Rails and Blankets\* - (Optional) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as a Surface Burning Characteristic and/or Fire Resistance. See Rails and Blankets (BKNV or BZZJ) Categories for names of Classified components.

5. Gypsum Board\* - Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal edge joints on opposite side of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1, 2, 3, 3 hr and 4 hr ratings are as follows:

Rating	Min Stud Depth	No. of Layers of Panel	Min Thickness of Insulation (See 3)	Min Thickness of Insulation (See 3) Optional
1	3-1/2"	1 layer, 5/8 in. thick	1/2 in.	Optional
2	3-1/2"	1 layer, 5/8 in. thick	1-1/2 in.	Optional
3	3-1/2"	1 layer, 5/8 in. thick	1-1/2 in.	Optional
3 hr	3-1/2"	1 layer, 5/8 in. thick	1-1/2 in.	Optional
4 hr	3-1/2"	1 layer, 5/8 in. thick	1-1/2 in.	Optional

Wallboard Protection on Each Side of Wall

SCALE: 1/4" = 1'-0"

DRAWN BY: WRJ

DATE: \_\_\_\_\_

CHECKED BY: RJB

DWG. NUMBER: \_\_\_\_\_

JOB NUMBER: \_\_\_\_\_

SHEET NO: \_\_\_\_\_

APPENDIX 'B'

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER REG. NO. 7291 ROBERT J. BRACKEN

9/26/22

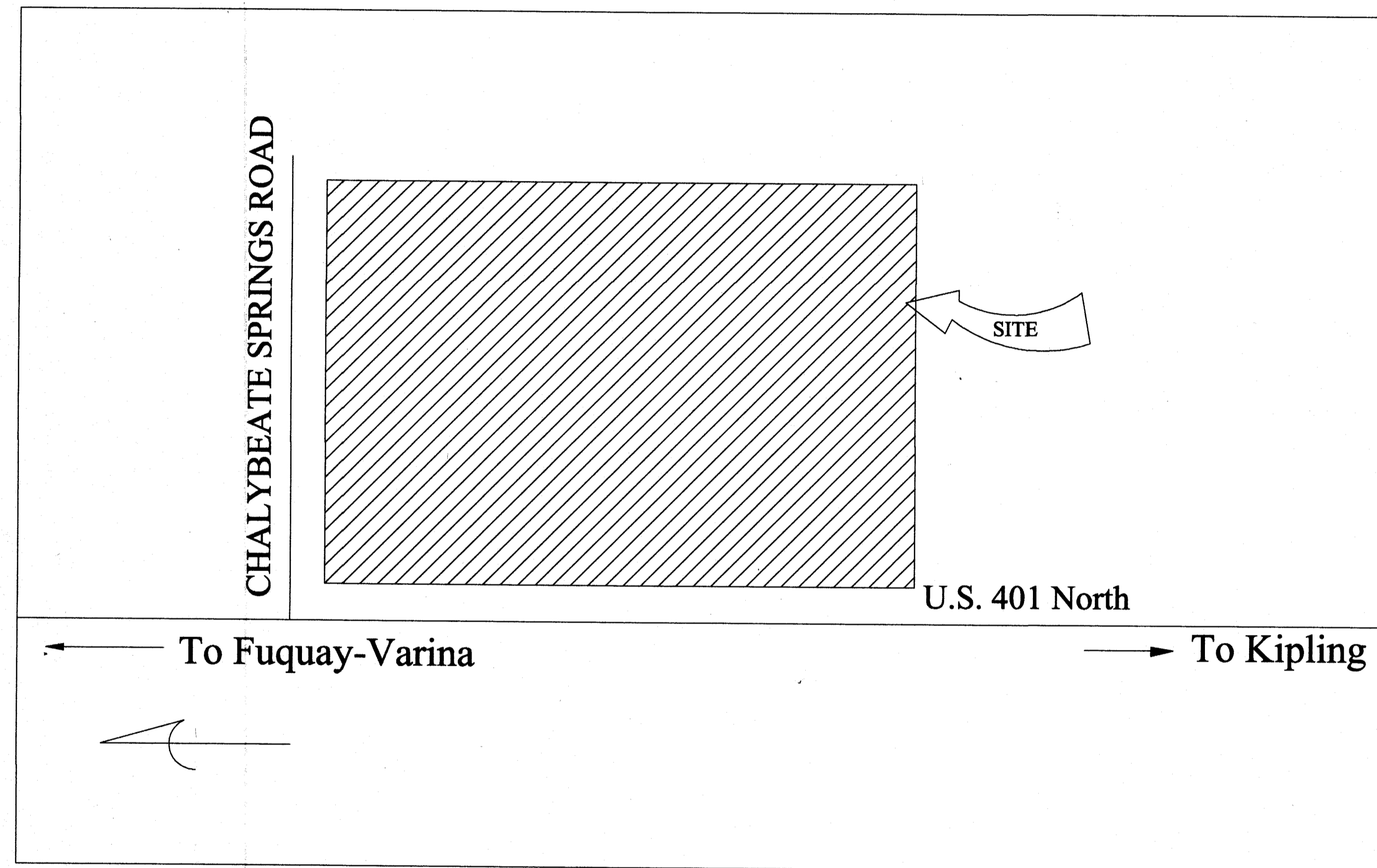
A NEW CHAMPS CONVENIENCE STORE  
U.S. HWAY 401 NORTH  
Fuquay-Varina, North Carolina 27526

RJB, PE, PA  
C-0269  
Robert J. Bracken  
ENGINEERING • SURVEYING  
3768 Carabontion Road • Sanford, NC 27330

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**A NEW CHAMPS CONVENIENCE STORE**  
**(8920)U.S. HWAY 401 NORTH**  
**Fuquay-Varina, North Carolina 27526**

CHAMPS CONVENIENCE STORE



VICINITY MAP

**CONTENTS**

Sheet	Description
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G-3	Wall Sections & Details
G-4	Wall Sections
G-5	Room Finish Schedules
E-1	Electrical Power Plan
E-2	Electrical Lighting Plan
E-3	Electric Panels
M-1	HVAC Layout
M-2	Roof Top Layout
P-1	Plumbing Plan
LS-1	Life Safety Plan

**OWNER:**  
**JAY AMBE SHAKTI, LLC**  
 2100 Weaver Forest Way  
 Morrisville, NC 27560  
 Phone: 910-980-6049  
 E-Mail : kcp162Wgmail.com

**ENGINEER:**  
**ROBERT J. BRACKEN, P.E.**  
 3768 CARBONTON ROAD  
 SANFORD, NC 27330

FOR CONSTRUCTION USE  
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*Robert J. Bracken* 12/7/22  
ROBERT J. BRACKEN, PE DATE

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BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)**

**Name Of Project:** New Champs Convenience Store

**Address:** 8920 US HWY 401 N Fuquay-Varina, NC Zip Code: 27526

**Owner Or Authorized Agent:** Ankit Patel Phe: 910-980-6049 Email: kcp162@gmail.com

**Owned By:**  City / County  Private  State

**Code Enforcement Jurisdiction:**  City  County Harnett  State

**CONTACT:** Robert J. Bracken, Jr. - P.E.

DESIGNER:	FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Civil	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
Electrical	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
Fire Alarm	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bjbracken@windstream.net
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Sprinkler - Standpipe					
Structural					
Retaining Wall > 5' High					
Other					

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

**2018 NC CODE BUILDING CODE:**  New Building  Addition  Renovation

1st Time Interior Completion

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 EXISTING BUILDING CODE:** EXISTING:  Prescriptive  Repair  Chapter 14

Alteration:  Level I  Level II  Level III

Historic Property  Change Of Use

CONSTRUCTION: (Date) \_\_\_\_\_ CURRENT OCCUPANCY (S) (CH. 3): \_\_\_\_\_

RENOVATED: (Date) \_\_\_\_\_ PROPOSED OCCUPANCY (S) (CH. 3): \_\_\_\_\_

OCCUPANCY 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-A

I-B  II-B  III-B  IV-B

Sprinklers:  No  Partial  Yes  NFPA 13  NFPA 13R  NFPA 13D

Standpipes:  No  Yes  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)

FLOOR	Existing (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		6,600 sq ft	6,600 sq ft
Basement			
<b>TOTAL</b>			6,600 sq ft

**Primary Occupancy (s):** Select One

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 Combat  H-4 Health  H-5 HPM

Institutional:  I-1 Condition  I-2 Condition  I-3 Condition  I-4

Mercantile:  9,000 sq ft

Residential:  R-1  R-2  R-3  R-4

Storage:  S-1 Moderate  S-2 Low  High Piled

Utility and Miscellaneous:

Accessory Occupancy Classification (s): \_\_\_\_\_

Incidental Uses (Table 509): \_\_\_\_\_

Special Uses (Chapter 4 - List Code Section): \_\_\_\_\_

Special Provisions: (Chapter 5 - List Code Section): \_\_\_\_\_

Mixed Occupancy:  Yes Separation: \_\_\_\_\_ 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 (509.4)** - See below for area calculations for each story; the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area Of Occupancy A + Actual Area Of Occupancy B ≤ 1.00  
Allowable Area Of Occupancy A + Allowable Area Of Occupancy B ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE 1.5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED

<sup>1</sup> Frontage area increase from Section 506.2 are 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)  
e. Percent of frontage increase = 100(F/P - 0.25) x W / 20 = \_\_\_\_\_ (%)

<sup>2</sup> Unlimited area applicable under conditions of Section 507.

<sup>3</sup> Maximum Building Area = total number of stories in building x D (maximum 3 stories) 506.2

<sup>4</sup> The maximum Area of open parking garages must comply with Table 406.5.4 The Maximum area of air traffic control towers must comply with Table 412.3.1.

<sup>5</sup> Frontage increase is based on the un-sprinklered area value in Table 506.2

BUILDING HEIGHT	ALLOWABLE HEIGHT		CODE REFERENCE
	ALLOWABLE	SHOWN ON PLANS	
Building Height in Feet (Table 504.3)	40	25	T 504.3
Building Height in Stories (Table 504.4)	ONE	ONE	T 504.4

<sup>1</sup> Provide code reference if the "Shows on Plans" quality is not based on Table 504.3 or 504.4

**FIRE PROTECTION REQUIREMENTS**

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders & trusses						
Bearing walls						
Exterior						
North	35'					
East	35'					
West	35'					
South	35'					
Interior						
Nonbearing walls and partitions						
Exterior Walls						
North						
East						
West						
South						
Interior walls & partitions						
Floor construction including supporting beams & joist						
Floor Ceiling Assembly						
Column Supporting Floors						
Roof construction including supporting beams & joist						
Roof Ceiling Assembly						
Column Supporting Roof						
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation	118'		W-L-1195	V-480		
Occupancy / Fire Barrier Separation						
Party / Fire Wall Separation						
Smoker Partition						
Tenant / Dwelling Unit						
Sleeping Unit Separation						
Incidental Use Separation						

\* Indicates section number permitting reduction

**PERCENTAGE OF WALL OPENING CALCULATIONS N/A**

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREES OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

**LIFE SAFETY SYSTEM REQUIREMENTS**

Emergency Lighting:  No  Yes

Exit Signs:  No  Yes

Fire Alarm:  No  Yes

Smoke Detection Systems:  No  Yes  Partial

Panic Hardware:  No  Yes

**LIFE SAFETY PLAN REQUIREMENTS**

Life Safety Plan Sheet # LS-1

Fire and / or smoke rated walls locations (Chapter 7)

Assumed and real property line locations. (If not on site plan)

Exterior wall opening area with respect to distance to assumed property line (705.8)

Occupancy Use for each area as it relates to occupant load calculations (Table 1004.1.2)

Occupant loads for each area.

Exit access travel distance (1017)

Dead end lengths (1020.4)

Clear exit widths for each door.

Maximum calculations occupant load capacity each exit door can accommodate based on egress width (1005.3)

Actual occupant load for each exit door.

A separate schematic plan indicating where fire rated floor / ceiling and / or roof structures provided for purpose 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 electromagnetic 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 (407.3)

Note any code exceptions or table notes that may have been utilized regarding the items above.

**ACCESSIBLE DWELLING UNITS N/A**  
(Section 1107)

TOTAL UNITS	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 SEE SITE PLAN**  
(Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH FURNISHED ACCESSIBLE	SPACES WITH ACCESSIBLE	SPACES WITH ACCESSIBLE	

**PLUMBING FIXTURE REQUIREMENTS**  
(Table 2902.1)

USE	SPACE	Water Closets		Urinals		Lavatories		Showers		Drinking Fountains	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Existing											
New		2									
Required											

**SPECIAL APPROVALS**  
Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHHS, etc. described below)

**NONE**

**ENERGY REQUIREMENTS:**  
The following data shall be considered minimum and any special attributes 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:  No  Yes (The remainder of this is not applicable)

Exempt Building:  No  Yes (Provide code or statutory reference):

Climate Zone:  3A  4A  5A

Method of Compliance: Energy Code  Performance  Prescriptive  ASHRAE 90.1  Performance  Prescriptive (If "Other" specify source here)

**ENERGY SUMMARY**

**HERMAL ENVELOPE (Prescriptive method only)**

Roof / Ceiling (each assembly)  
Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Skylights in each assembly: \_\_\_\_\_  
U-Value of skylight: \_\_\_\_\_  
total square footage of skylights in each assembly: \_\_\_\_\_

Exterior Walls (each assembly)  
Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Openings (windows or doors with glazing): \_\_\_\_\_  
U-Value of assembly: \_\_\_\_\_  
Solar heat gain coefficient: \_\_\_\_\_  
Projection factor: \_\_\_\_\_  
Door U-Value: \_\_\_\_\_

Wall below grade (each assembly)  
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: \_\_\_\_\_  
Horizontal / vertical requirement: \_\_\_\_\_  
Slab heated: \_\_\_\_\_

**STRUCTURAL DESIGN**  
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

**DESIGN LOADS:**  
Importance Factor: Snow (1) 1.0  
Seismic (1) 1.0

Live Loads: Roof 20 psf  
Mezzanine psf  
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Basic Wind Speed 115 mph (ASCE-7)  
Exposure Category B

**SEISMIC DESIGN CATEGORY:**  A  B  C  D

Provide the following Seismic Design Parameters:  
Risk Category (Table 1604.5)  I  II  III  IV  
Special Response Acceleration 0.1 %  
Site Classification (ASCE 7)  A  B  C  D  E  F

Data Source:  Field Test  Presumptive  Historical Data

Basic structural system:  Bearing Wall  Dual w/ Special Moment Frame  Building Frame  Dual w/ Intermediate R/C or Special Steel  Moment Frame  Inverted Pentadrum

Analysis Procedure:  Simplified  Equivalent Lateral Force  Dynamic Architectural, Mechanical, Components anchored?  Yes  No

**LATERAL DESIGN CONTROL:** Earthquake  Wind

**SOIL BEARING CAPACITIES:**  
Field Test (provide copy of test report) \_\_\_\_\_ psf  
Presumptive Bearing capacity 2000 psf  
Pile size, type, and capacity \_\_\_\_\_

**MECHANICAL SUMMARY**  
(PROVIDE IN THE MECHANICAL SHEETS IF APPLICABLE)

**MECHANICAL SYSTEMS, SERVICES AND EQUIPMENT**

Thermal Zone 4A  
winter dry bulb: 20°  
summer dry bulb: 94°

Interior design conditions:  
winter dry bulb: 72°  
summer dry bulb: 78°  
relative humidity: 60%

Building heating load: 63,379 Btu

Building cooling load: 150,307 Btu

Mechanical Spacing Conditioning System  
Unitary

description of unit: \_\_\_\_\_  
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: \_\_\_\_\_

**ELECTRICITY SUMMARY**  
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

**ELECTRICAL SYSTEM AND EQUIPMENT**  
Method of Compliance: Energy Code  Performance  Prescriptive  
ASHRAE 90.1  Performance  Prescriptive

Lighting schedule (Each fixture type)  
lamp type required in fixture: \_\_\_\_\_  
number of lamps in fixture: \_\_\_\_\_  
ballast type used in the fixture: \_\_\_\_\_  
number of ballast in fixture: \_\_\_\_\_  
total wattage per fixture: \_\_\_\_\_  
total interior wattage specified vs allowed: Whole building or space by space

Allowable Watts: 8216  
Actual Watts: 2717

**Additional Efficiency Package Options**  
(When using the 2018 NEC, not required for ASHRAE 90.1)

C406.2 More Efficient HVAC Equipment Performance

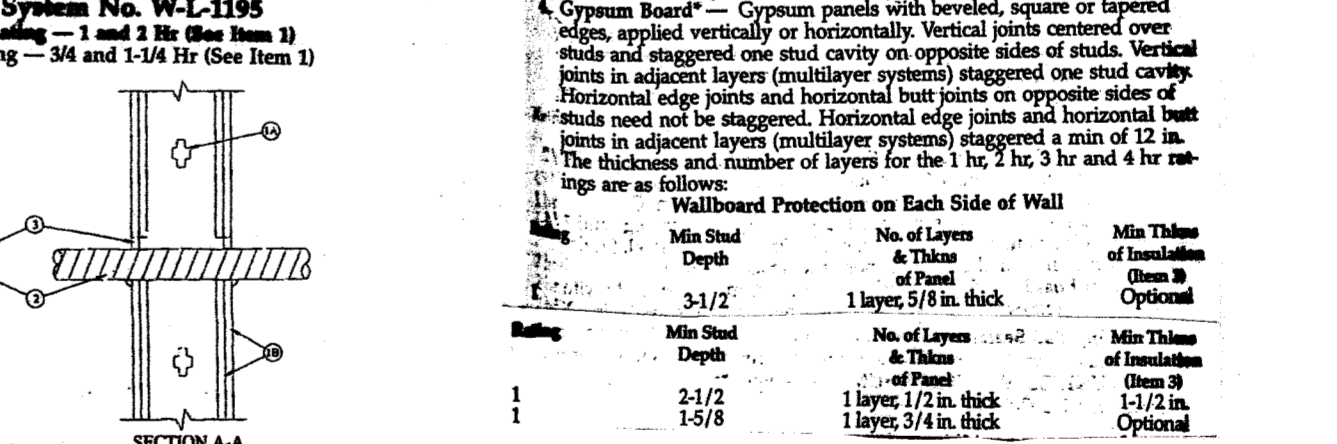
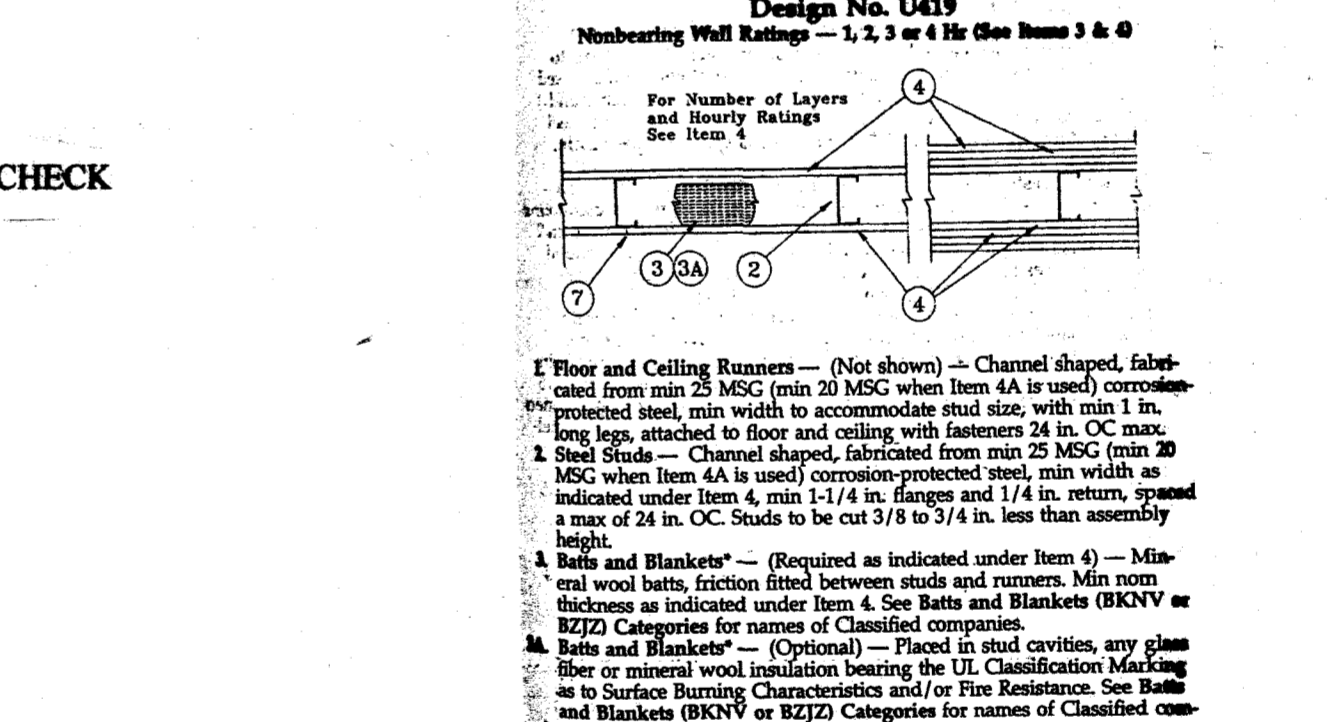
C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air Systems

C406.7 Reduced Energy Use in Service Water Heating



**Appendix "B"**

SCALE: 1/4" = 1'-0"

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**APPENDIX 'B'**

SEAL

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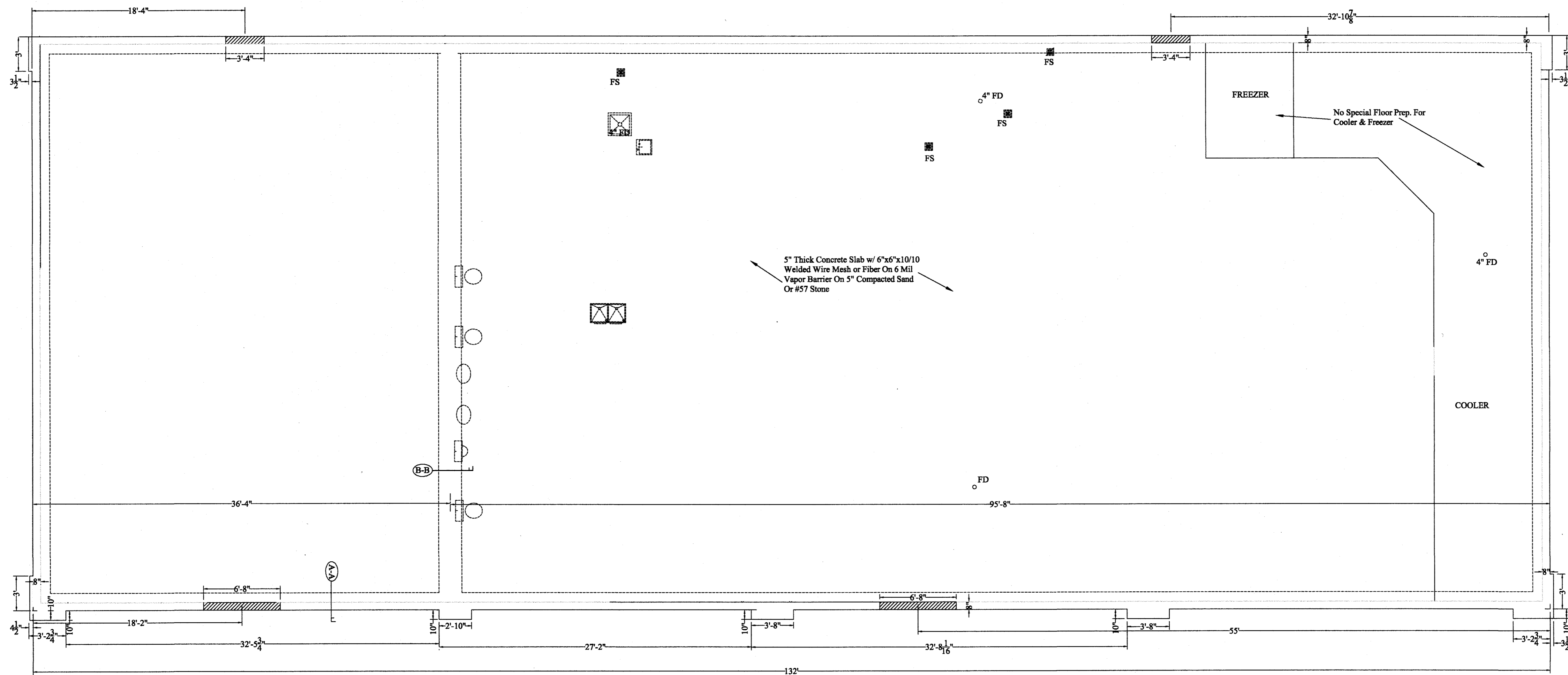
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**A NEW CHAMPS CONVENIENCE STORE**  
**U.S. HWAY 401 NORTH**  
**Fuquay-Varina, North Carolina 27526**

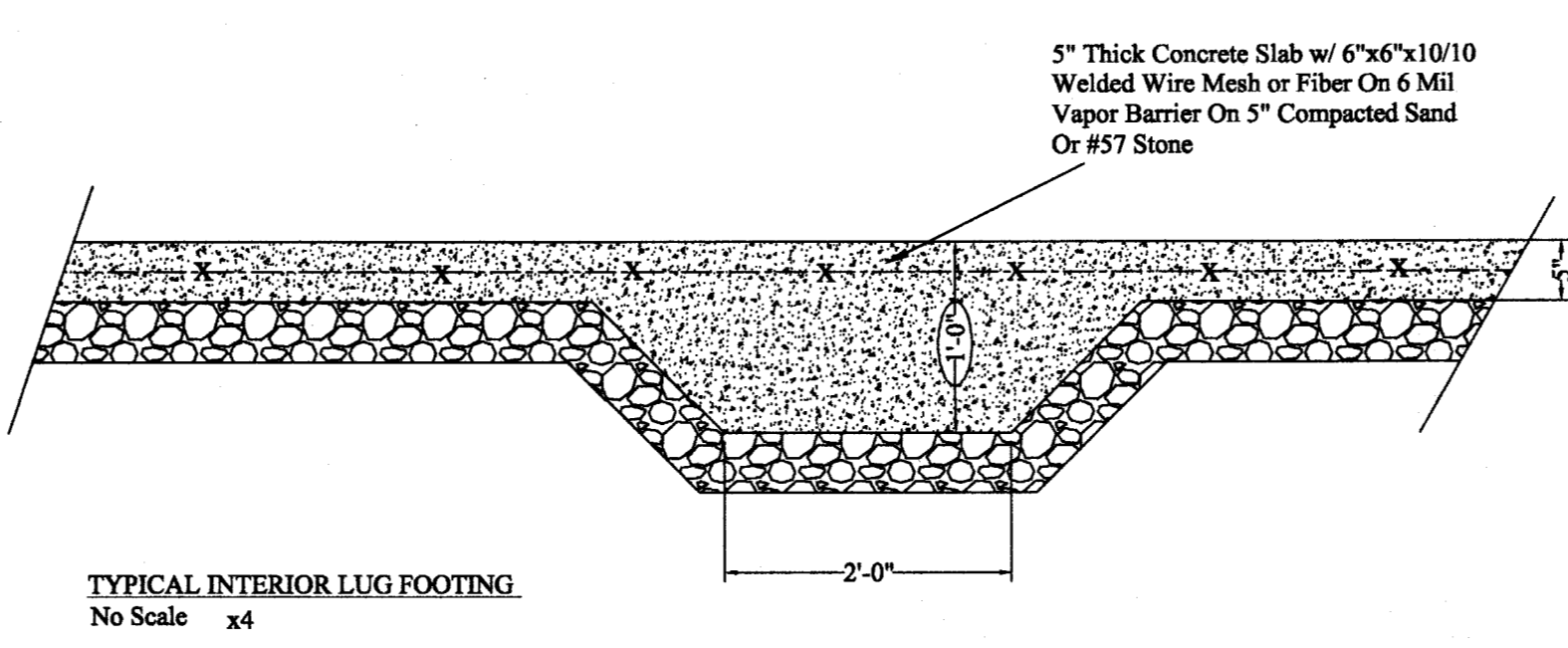
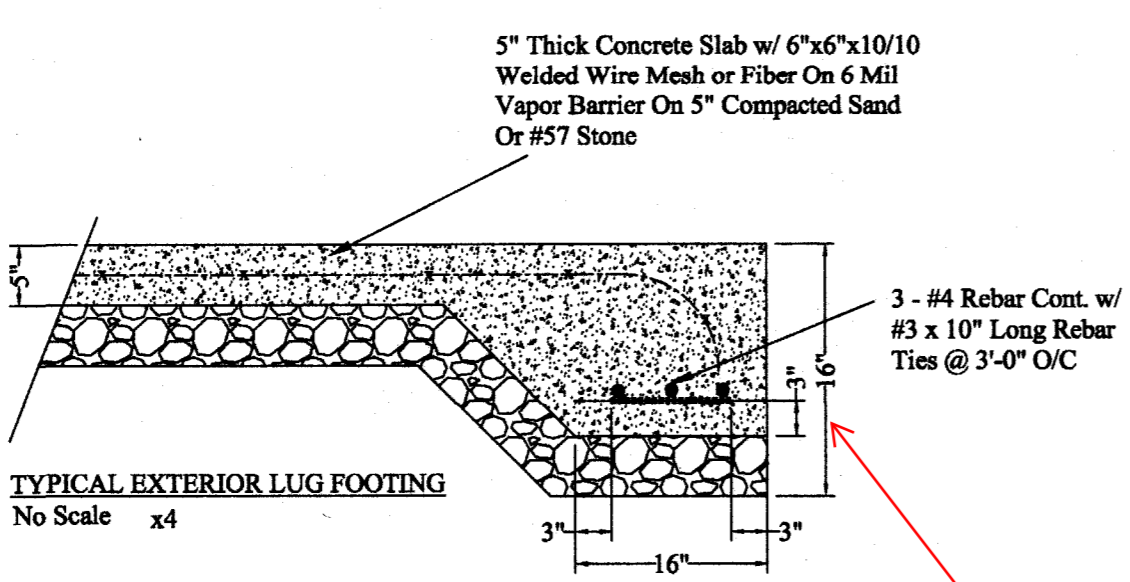
**RJB, PE, PA**  
C-0269  
**Robert J. Bracken**  
**ENGINEERING • SURVEYING**  
3768 Carabotton Road • Sanford, NC 27330

**JOHN MANVILLE INTERNATIONAL INC.**  
**REGISTERED PROFESSIONAL ENGINEER**  
**STATE OF NORTH CAROLINA**  
**NO. 7291**  
**ROBERT J. BRACKEN**  
9/26/22

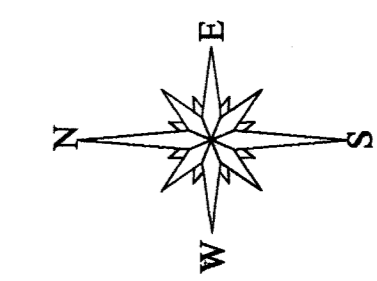


**FOUNDATION PLAN**  
Scale: 3/16" = 1'-0"

**NOTE: See Electrical Power Plan & Equipment Plan & Plumbing Plan To Verify Locations Of Plumbing & Electrical In Floor Slab.**



Insulation required. See comcheck



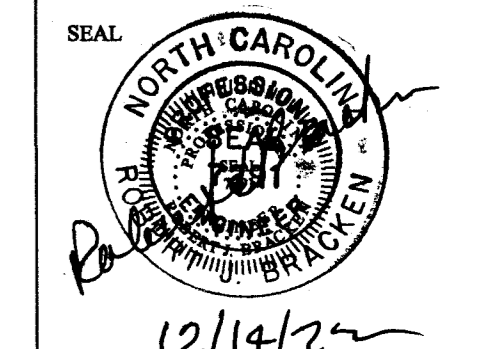
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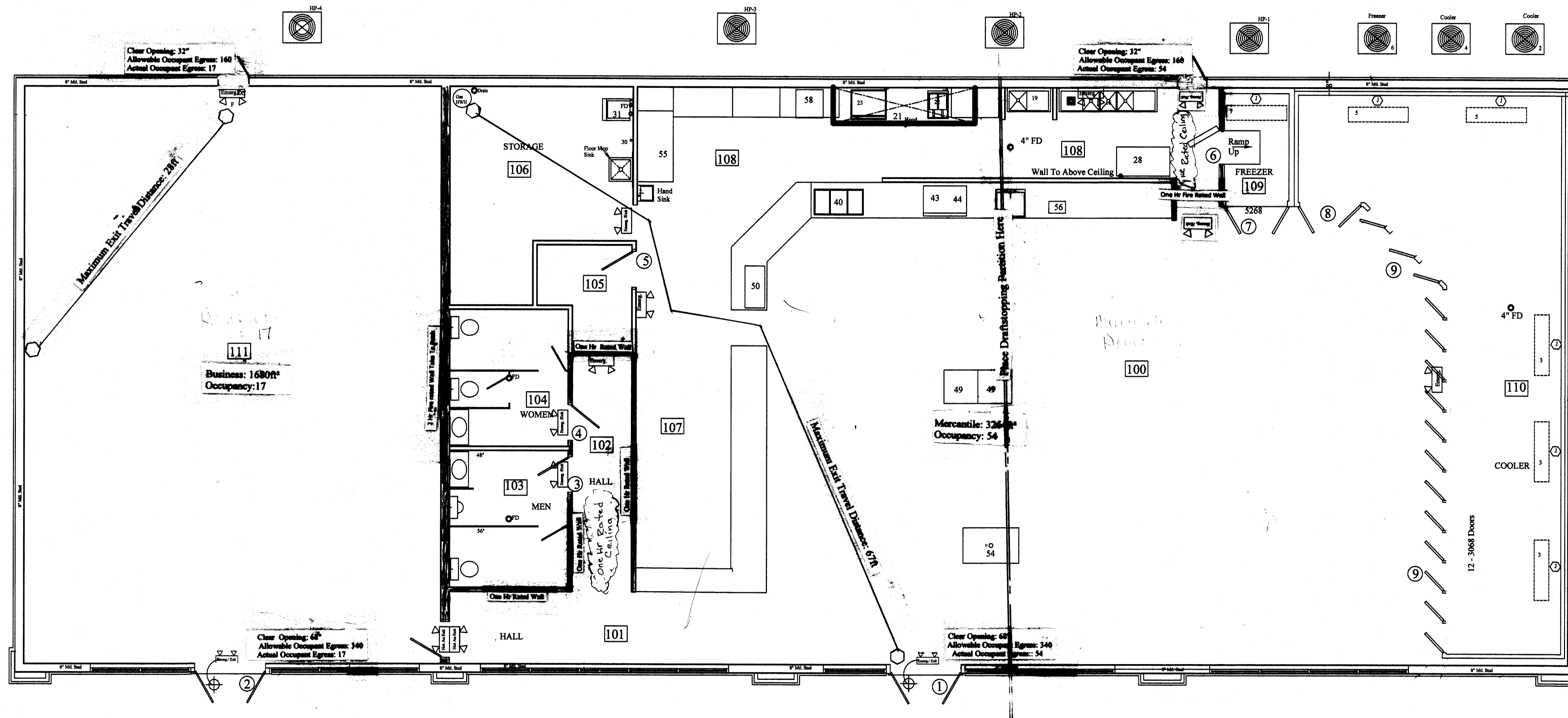
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**LIFE SAFETY PLAN**  
Scale: 3/16" = 1'-0"

Total Area: 6,600ft<sup>2</sup>  
Total Occupancy: 71

Life Safety Plan

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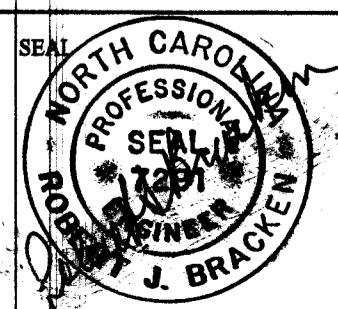
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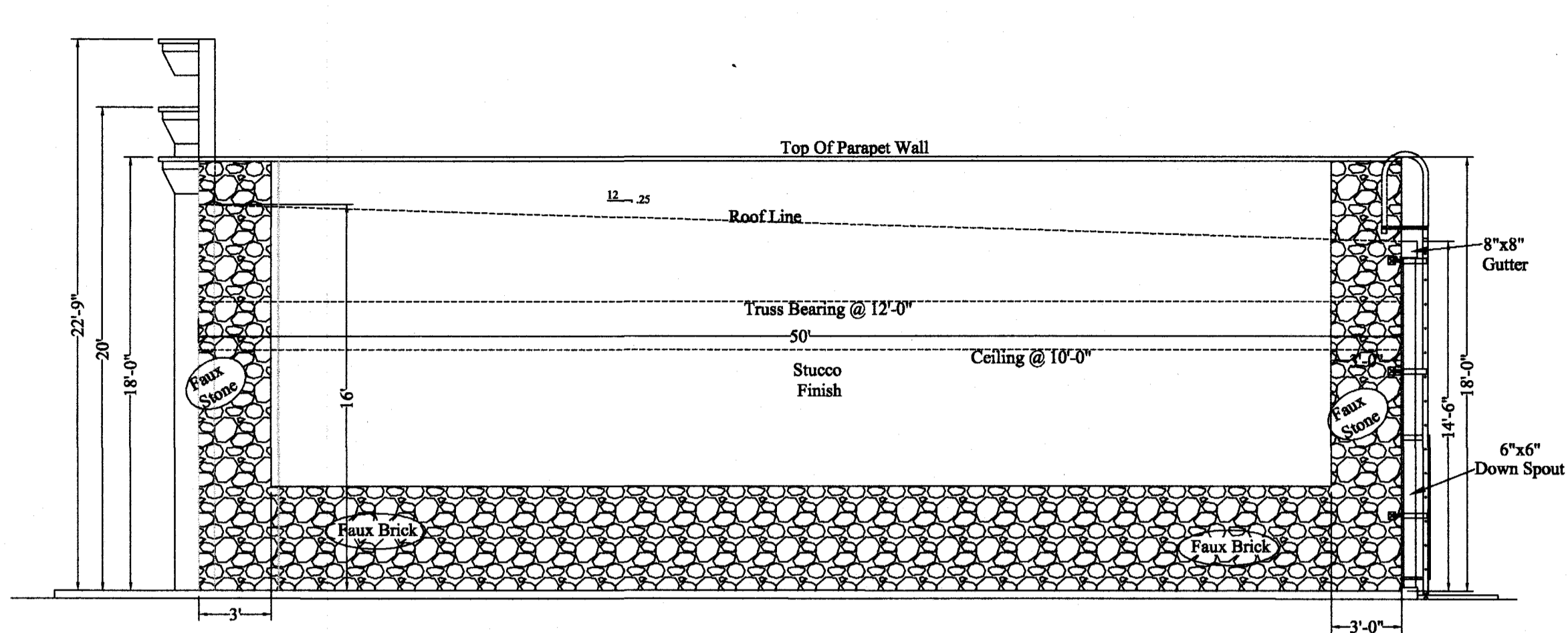
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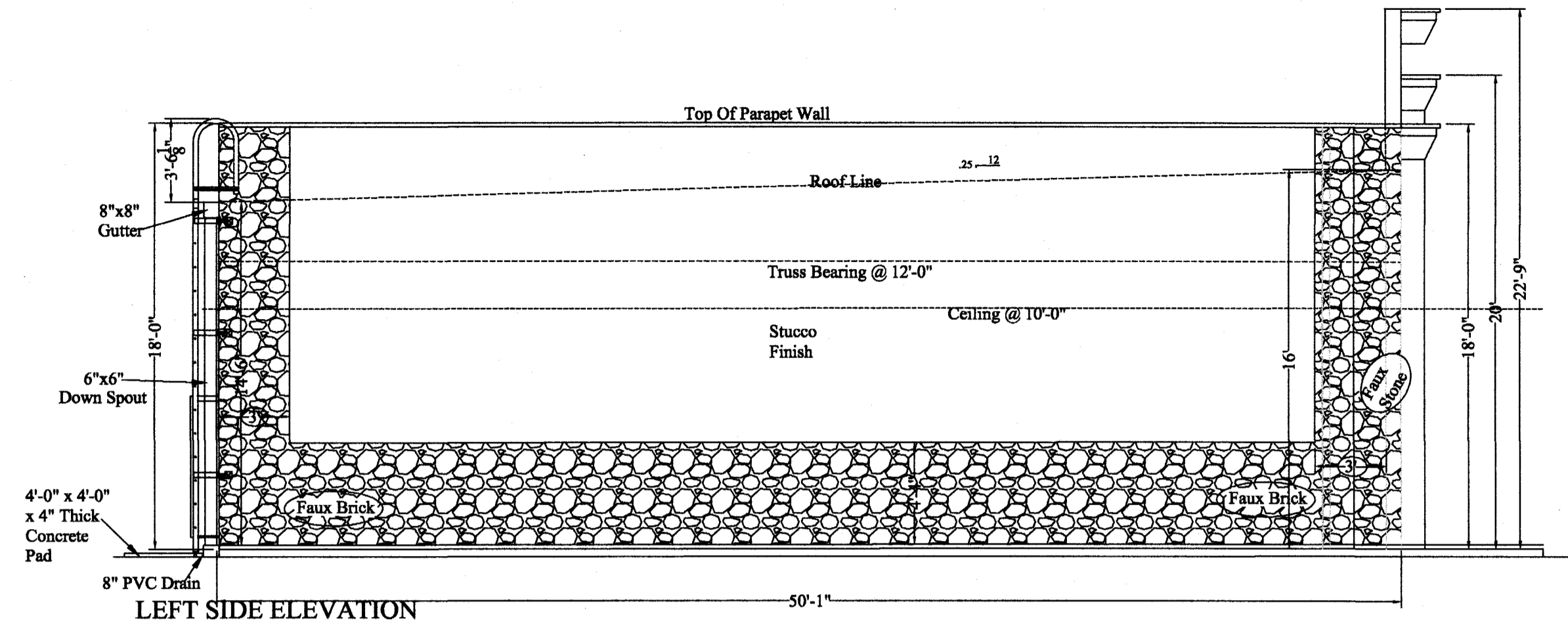
LS-1



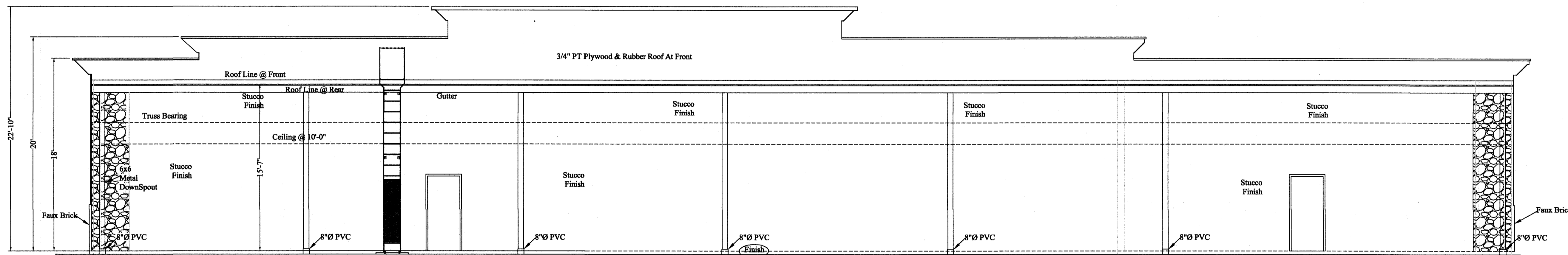
8/17/22



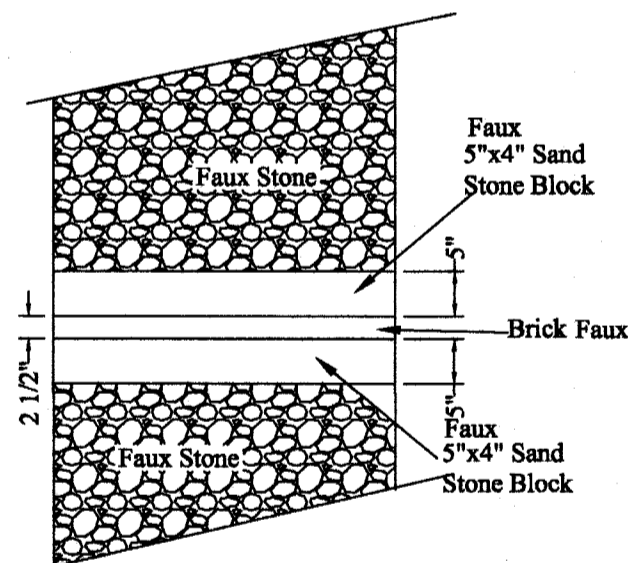
**RIGHT SIDE ELEVATION**  
Scale: 3/16" = 1'-0"



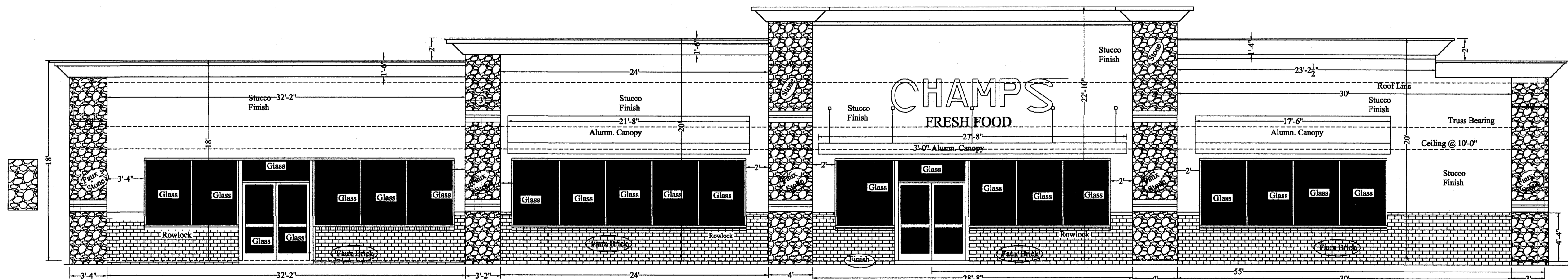
**LEFT SIDE ELEVATION**  
Scale: 3/16" = 1'-0"



**REAR ELEVATION**  
Scale: 3/16" = 1'-0"



**INSET DETAIL**  
No Scale



**FRONT ELEVATION**  
Scale: 3/16" = 1'-0"

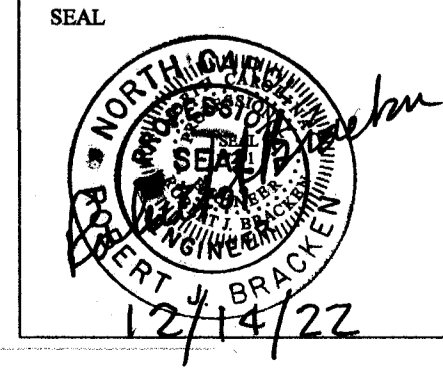
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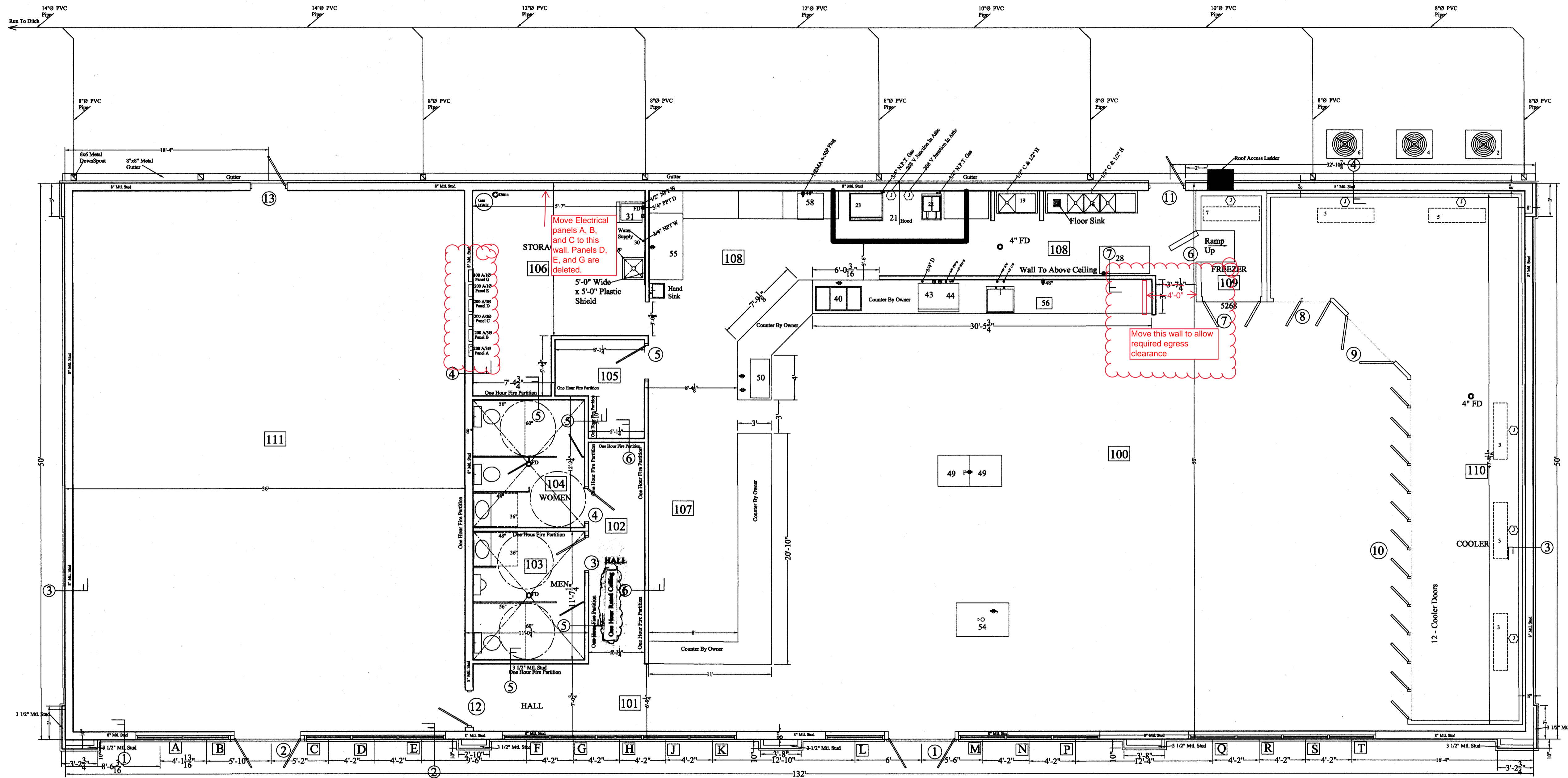
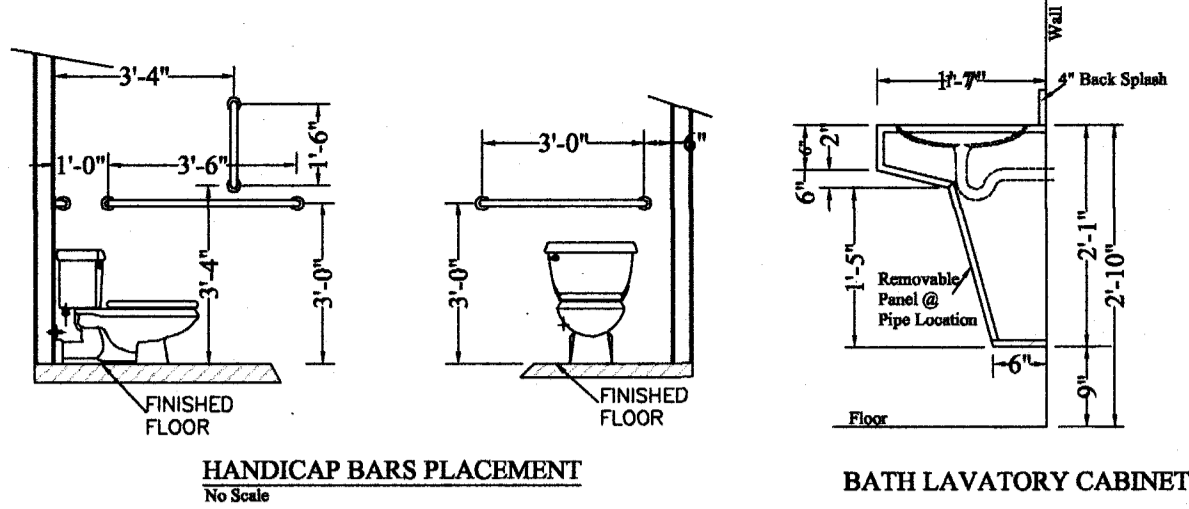
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JOB NUMBER:

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**G - 1**

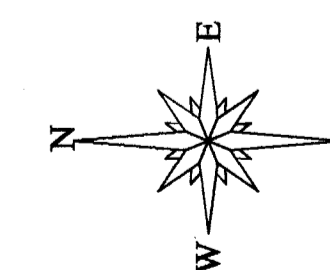


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FLOOR PLAN  
Scale: 3/16" = 1'-0"



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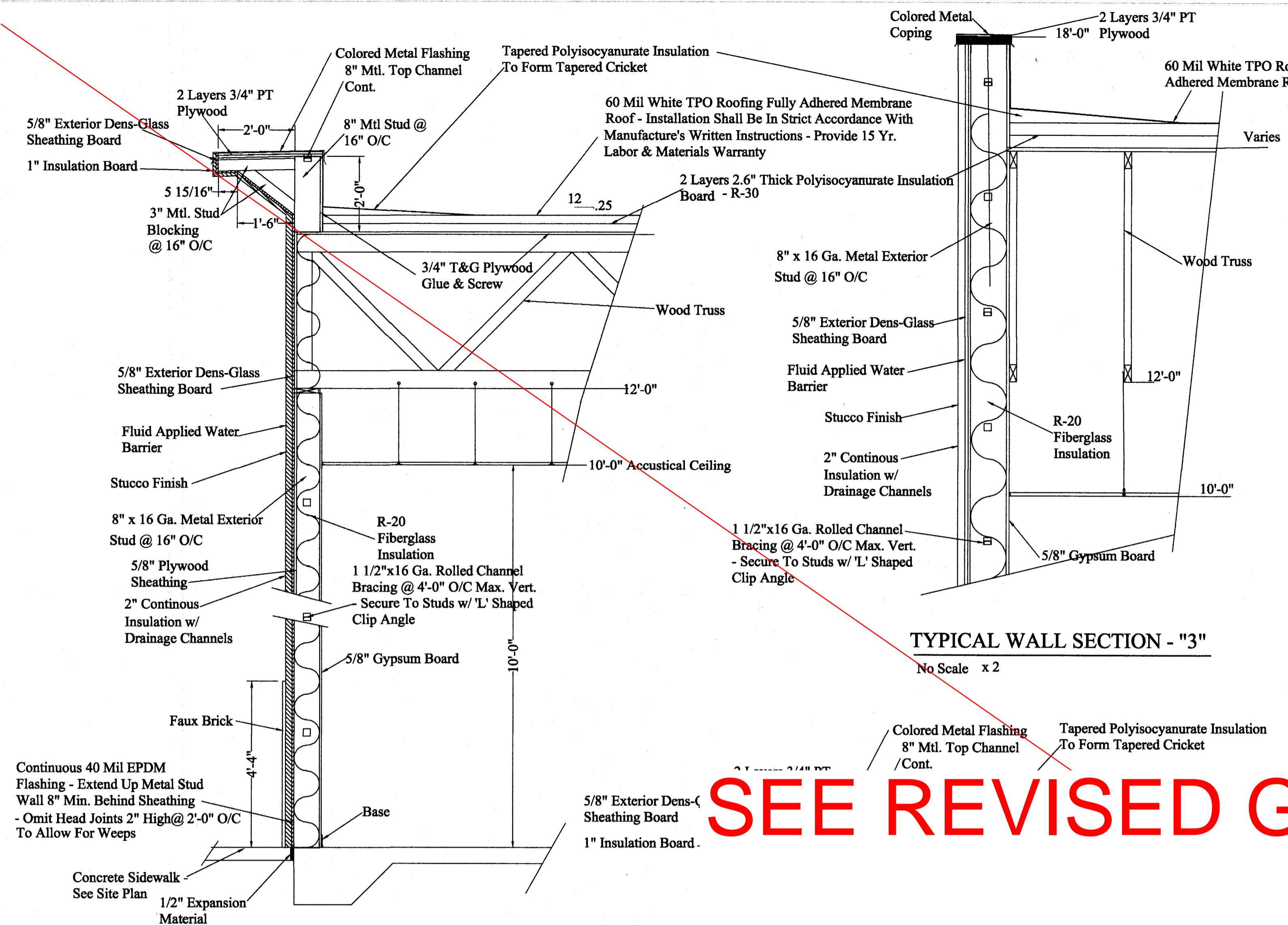
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SHEET NO:  G - 2
SEAL

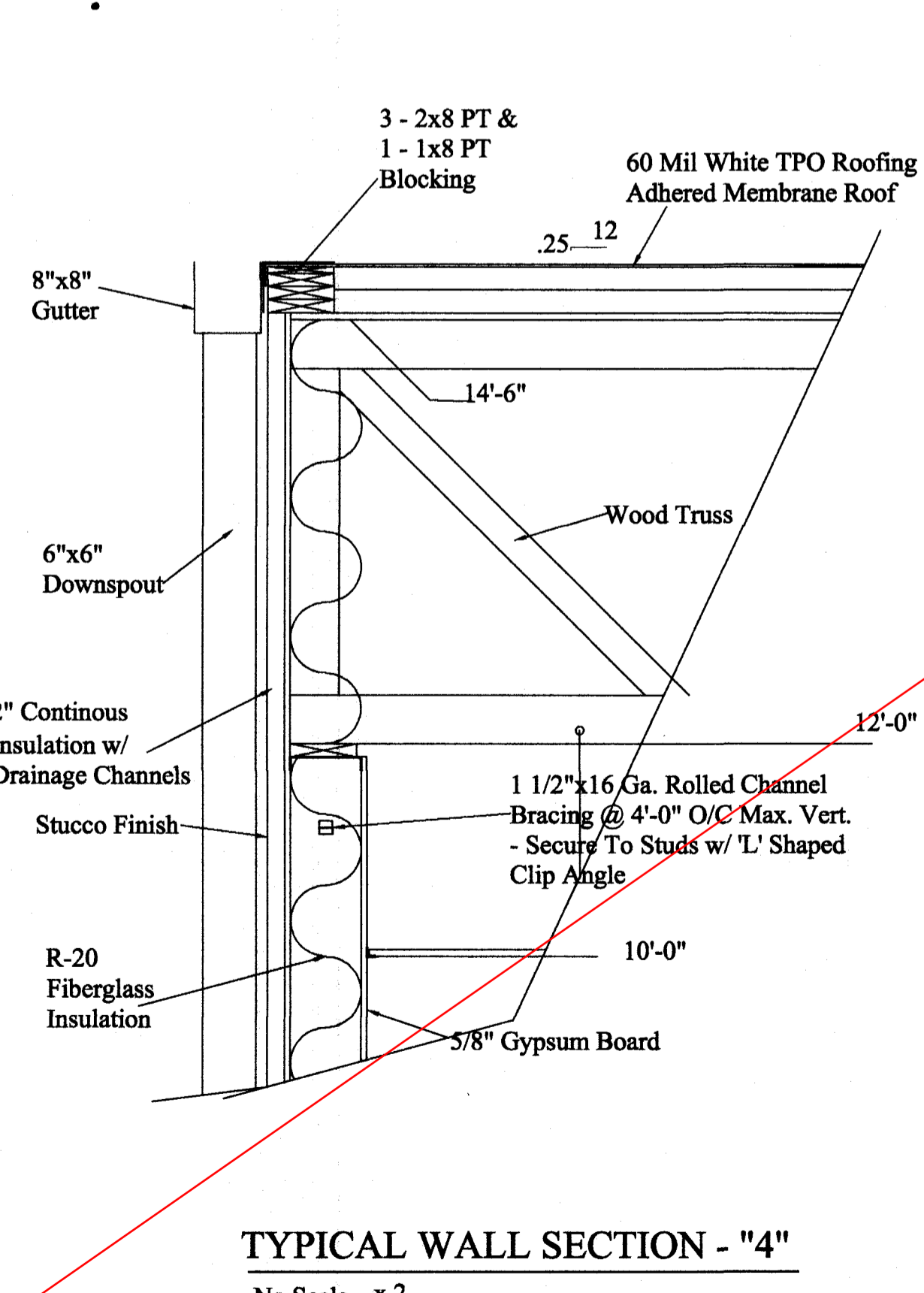
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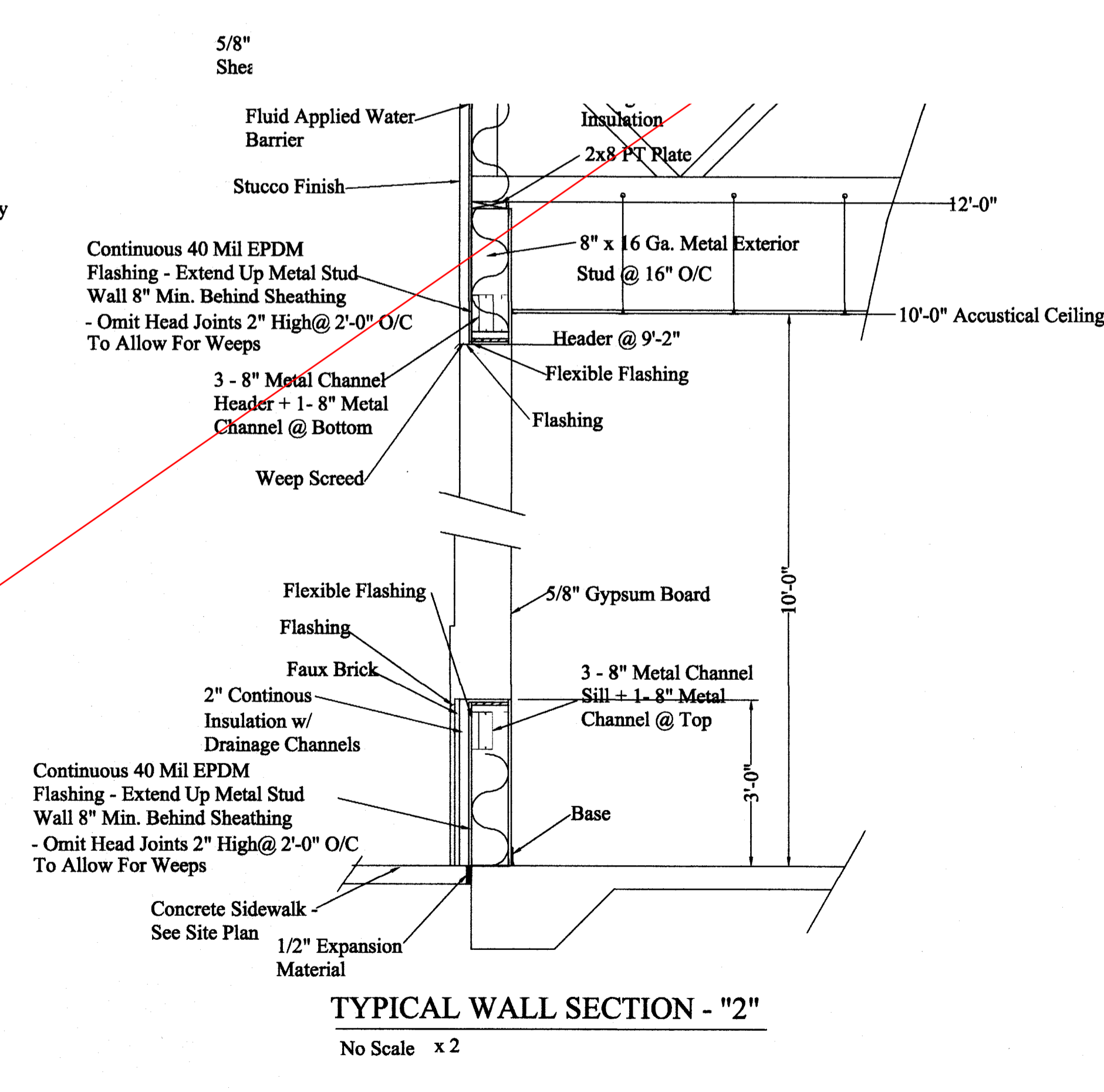


TYPICAL WALL SECTION - "3"  
No Scale x 2

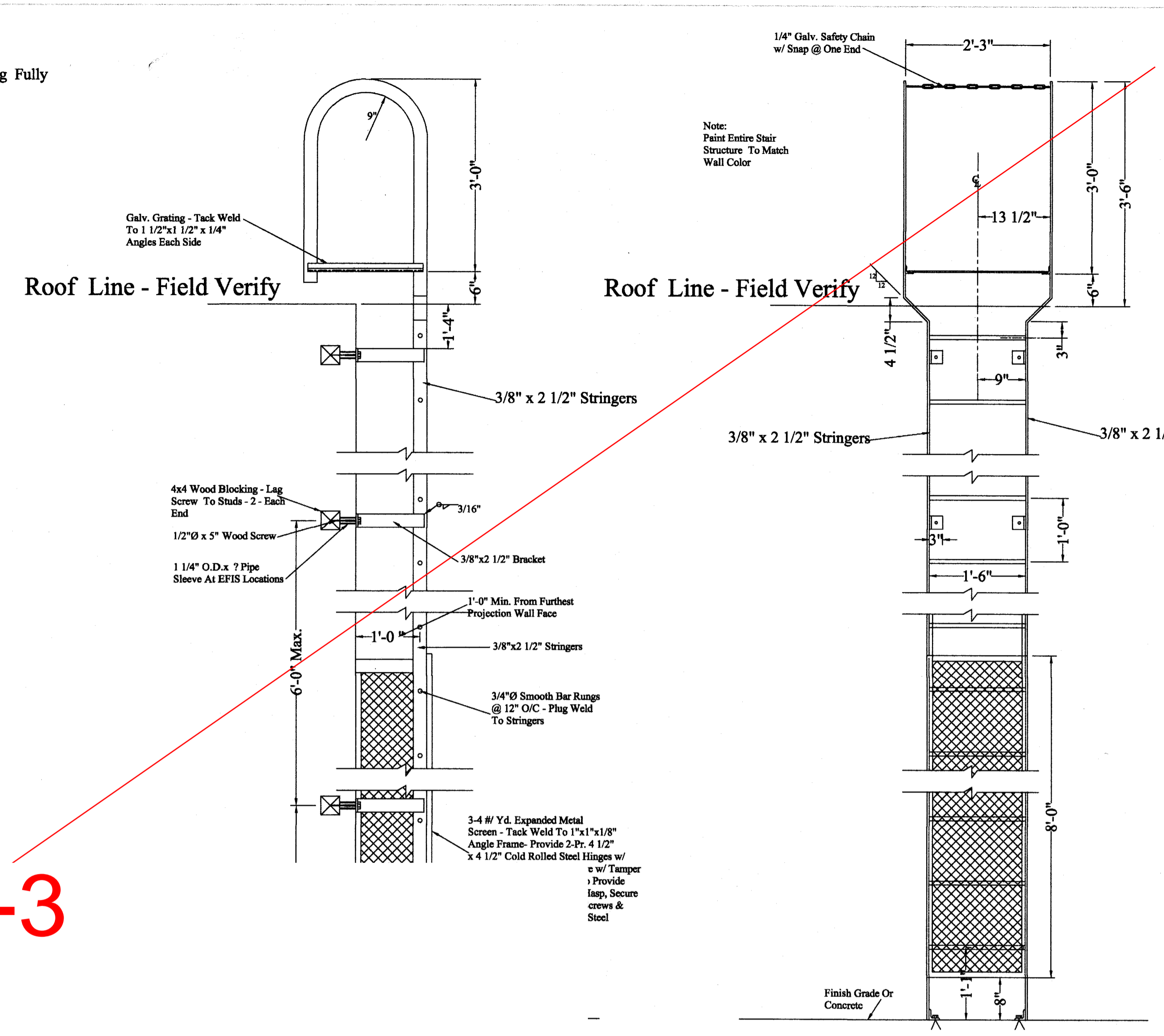
TYPICAL WALL SECTION - "1"  
No Scale x 2



TYPICAL WALL SECTION - "4"  
No Scale x 2



TYPICAL WALL SECTION - "2"  
No Scale x 2

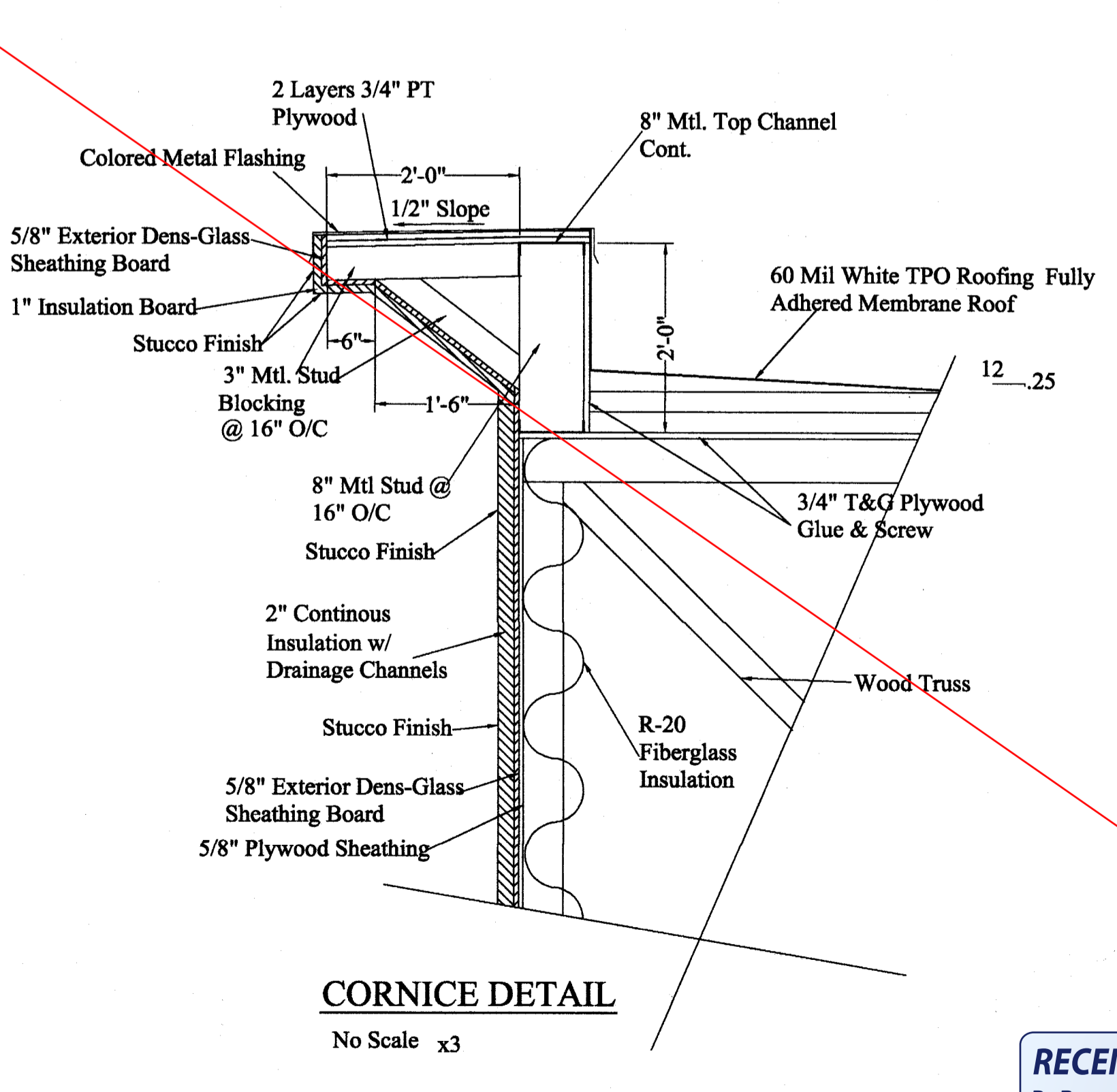


Roof Line - Field Verify

Roof Line - Field Verify

ELEVATION

OOF LADDER DETAIL  
3/4" = 1'-0"



CORNICE DETAIL  
No Scale x 3

**SEE REVISED G-3**

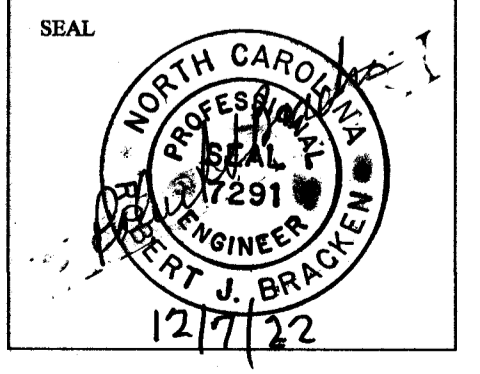
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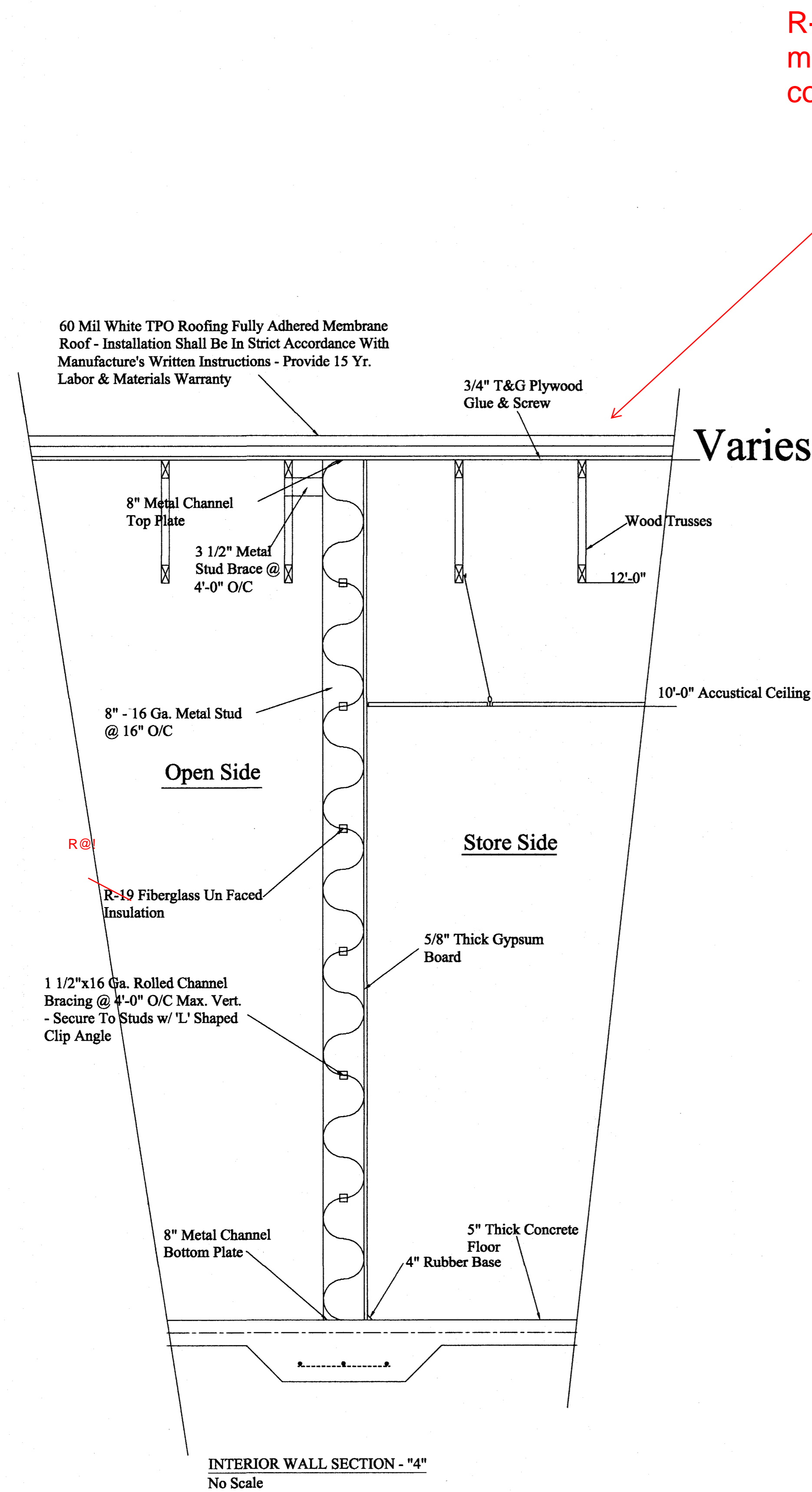
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**G - 3**

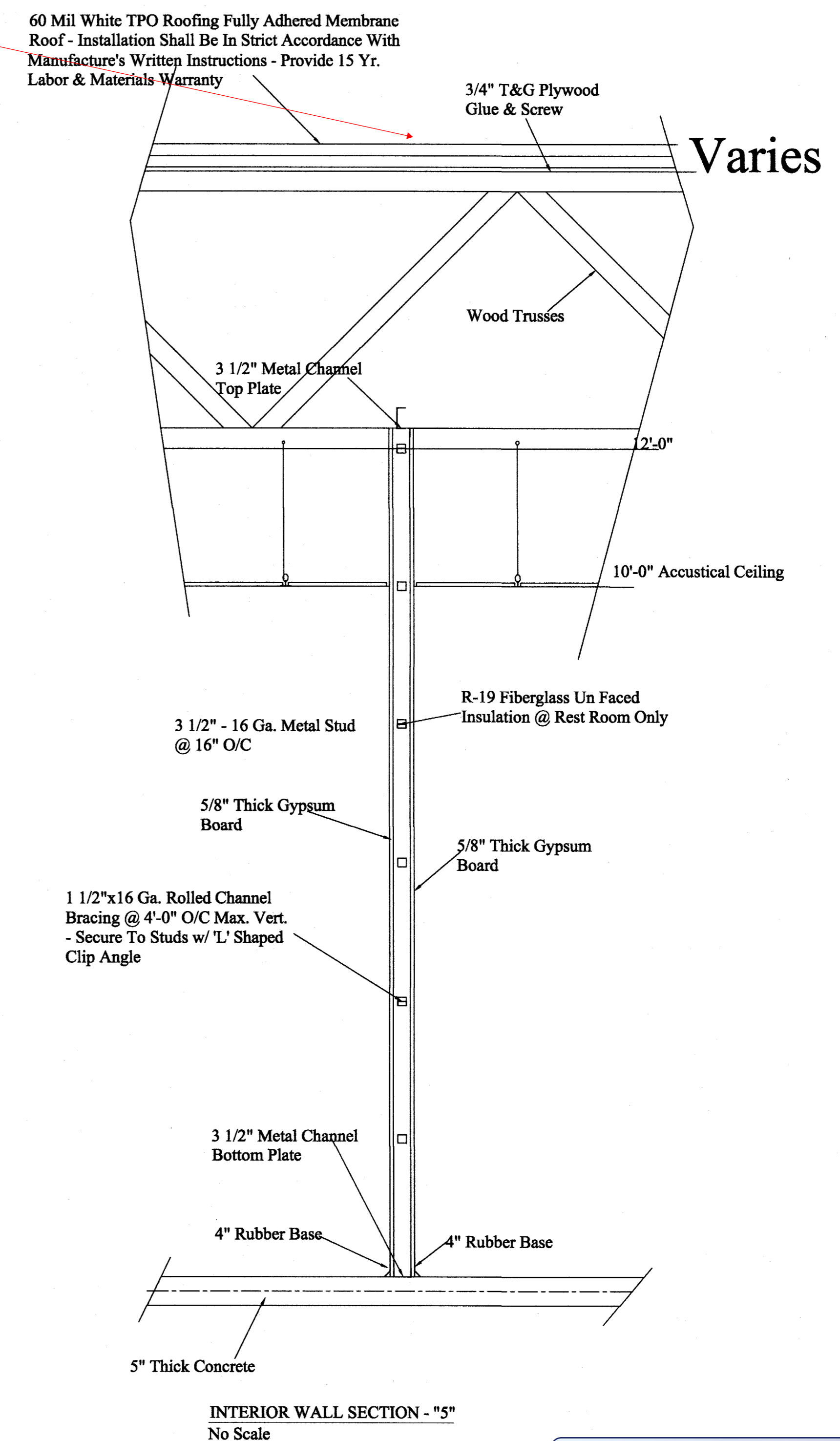
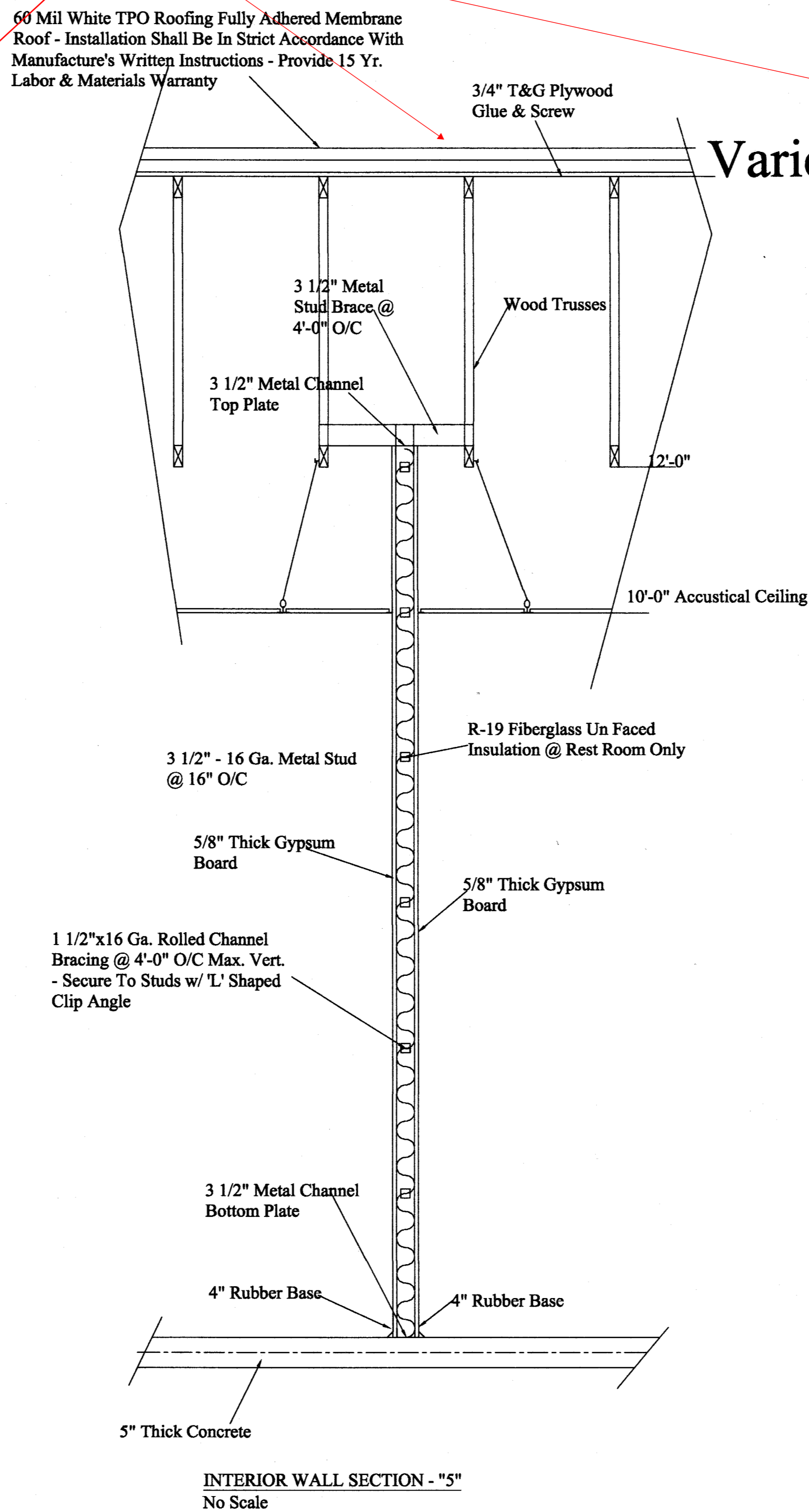


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R-30 CI under membrane per comcheck



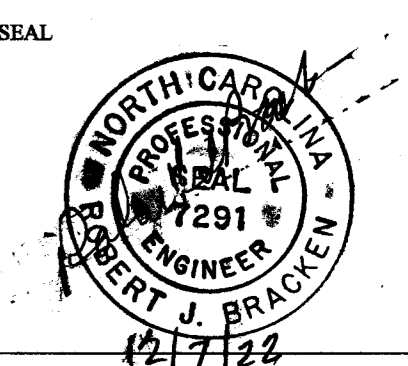
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**G - 4**



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INTERIOR ROOM FINISH									DOOR SCHEDULE								
ROOM NO.	ROOM NAME	FLOORS		WALLS		CEILING		REMARKS	MARK	SIZE	TYPE	FRAME	LIGHTS	REMARKS	PAINT / STAIN	HWD. NO.	
		BASE	FINISH	MATERIAL	FINISH	BASE	TYPE										HEIGHT
100	Main Store	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		6070	Store Front	Alum.	Full	W/ 60110 Transom	Factory	A	
101	Store Hall	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		6070	Store Front	Alum.	Full	W/ 60110 Transom	Factory	A	
102	Bath Hall	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in Fire Code	10'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	H	
103	Men Rest Rooms	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (Floc)**	4" Rubber	2x4 Lay-in Fire Code	10'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	H	
104	Women Rest Room	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (Floc)**	4" Rubber	2x4 Lay-in Fire Code	10'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	C	
105	Office	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		34"x78"	Freezer Panel	Freezer Panel	None		Factory	G	
106	Storage	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		2 - 30"x79"	Freezer Panel	Freezer Panel	None		Factory	G	
107	Behind Counter	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (Floc)**	4" Rubber	2x4 Lay-in	10'-0"		Unit 5'-2 7/16"	Cooler Panel	Cooler Panel	Full		Factory	G	
108	Cooking & Washing	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (Floc)**	4" Rubber	2x4 Lay-in Fire Code	10'-0"		Unit 73 5/8"	Cooler Panel	Cooler Panel	Full		Factory	G	
109	Freezer	Concrete	Freezer Panel	Freezer Panel	Freezer Panel	None	Freezer Panel	8'-0"		12 - Unit Cooler Doors	Cooler Panel	Cooler Panel	Full		Factory	G	
110	Beer & Drinks Cooler	Concrete	Smooth Finish	Cooler Panel	Cooler Panel	None	Cooler Panel	8'-0"		3070	HM	HM	None	Paint HM Frame	Paint	E	
111	Empty Space	Concrete	Smooth Finish	Bare Studs	None	None	Open To Trusses	16'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	E	
										3070	HM	HM	None	Paint HM Frame	Paint	E	

20min Rating  
20min Rating

WINDOW SCHEDULE				
MK	TYPE	SIZE	FRAME	REMARKS
A,B,C,D,E,F,G,H,I,K,M,N,P,Q,R,S,T	Store Front	40x510	Alum.	Fixed Glass
L,M	Store Front	50x510	Alum.	Fixed Glass

HARDWARE SCHEDULE		NOTES: Door Locks & Passage Sets To Be By Corbin - Russwin Door Hardware To Be By Von Duprin. Chrome Finish - 26 D
A	6 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, 2-Pull Handle, 2-Push Plate, 2-Closer, Threshold, Weatherstripping, Panic Hardware, Supplied By Manufacturer	
B	3 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, Pull Handle, Push Plate, Kick Plate, Closer, Threshold, Weatherstripping, Panic Hardware, Supplied By Manufacturer	
C	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Entrance Lock Set, Kick Plate	
D	3 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, Pull Plate, Kick Plate, Closer, Threshold, Weatherstripping, Panic Hardware	
E	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Entrance Lock Set, Closer, Threshold, Weatherstripping, Panic Hardware	
F	3 Pr. 4 1/2" x 4 1/2" Hinges, Pull Handle, Push Plate, Kick Plate, Closer, Threshold, Panic Hardware	
G	Supplied By Manufacture	
H	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Pull Handle, Push Plate, Kick Plate, Closer, 2" x 12" Brown Plastic Sign (Men / Women)	
J	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Entrance Set, Kick Plate, Closer	
	3 Pr. 4 1/2" x 4 1/2" Hinges, Passage Set, Kick Plate	
	**All Hardware To Be Handicap Accessible**	

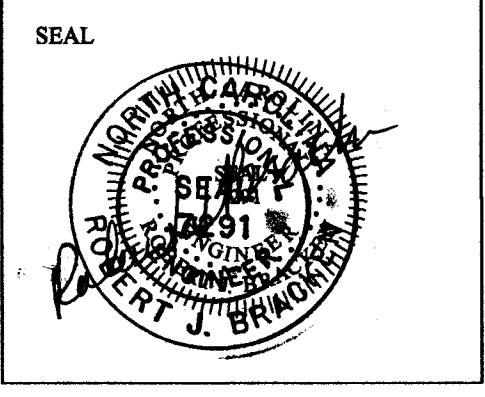
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A NEW CHAMPS CONVENIENCE STORE  
U.S. HWAY 401 NORTH  
Fuquay-Varina, North Carolina 27526

RJB, PE, PA  
C-0269  
Robert J. Bracken  
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3768 Caribon Road • Sanford, NC 27330

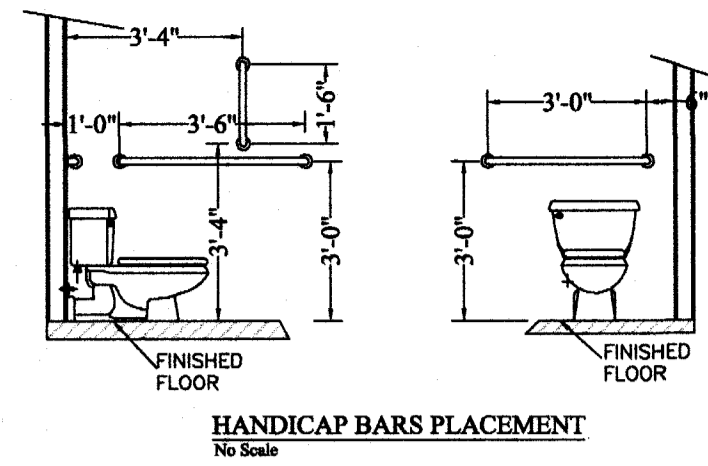
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G - 5



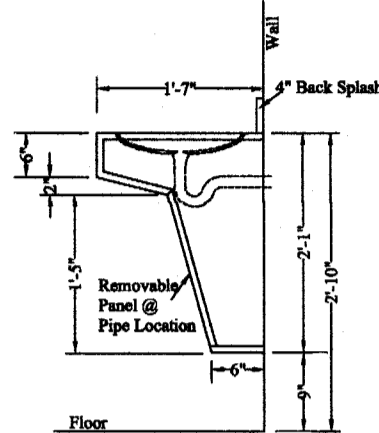
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**LEGEND**

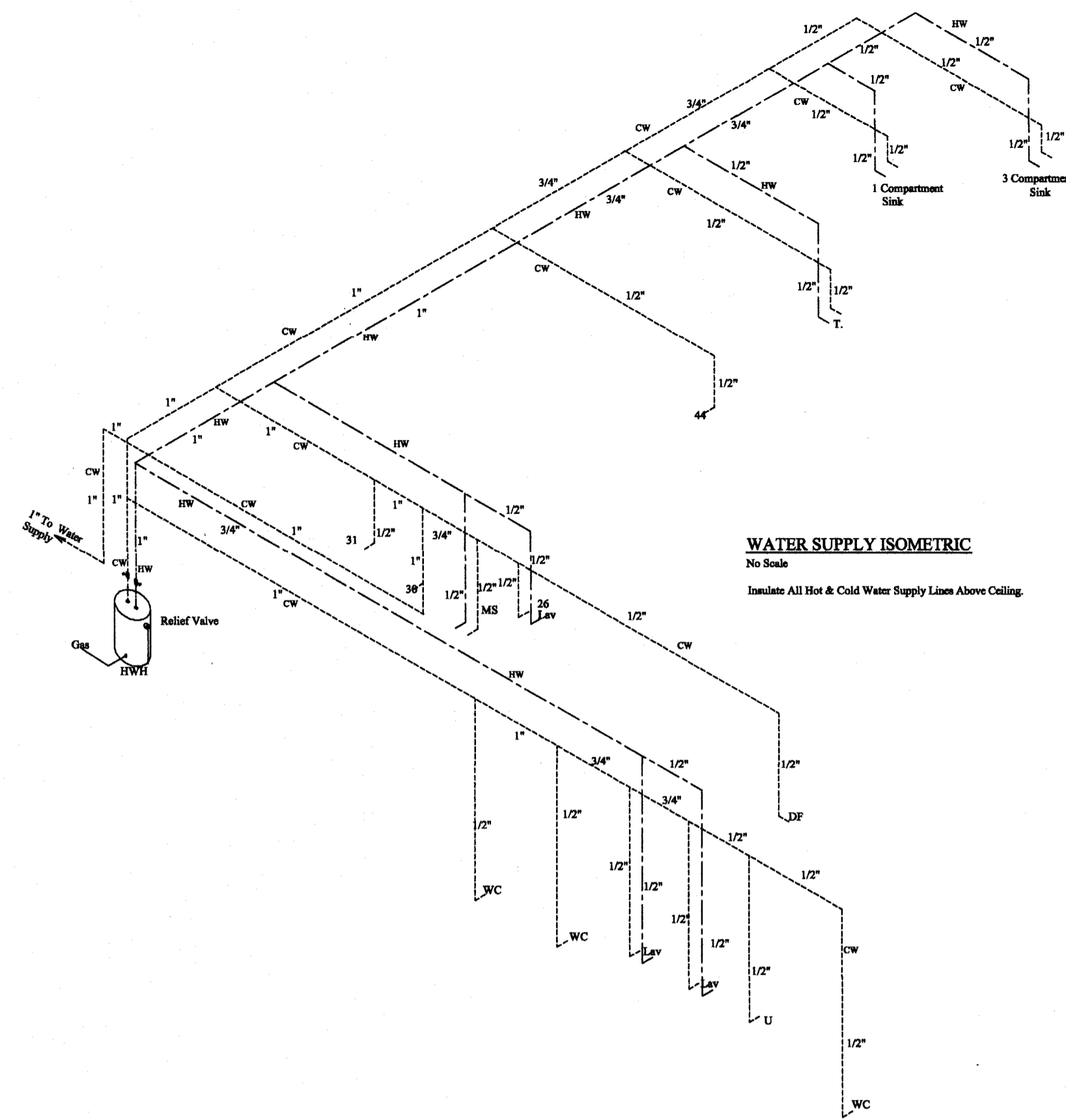
- DF - Drinking Fountain
- CO - Clean Out
- FD - Floor Drain
- LAV - Lavatory
- WC - Water Closet
- U - Wall Urinal
- VTR - Vent Through Roof
- CW - Cold Water
- HW - Hot Water
- FWH - Frost Proof Hose Bibb
- HB - Regular Hose Bibb
- KS - Single Kitchen Sink
- MS - Floor Map Sink



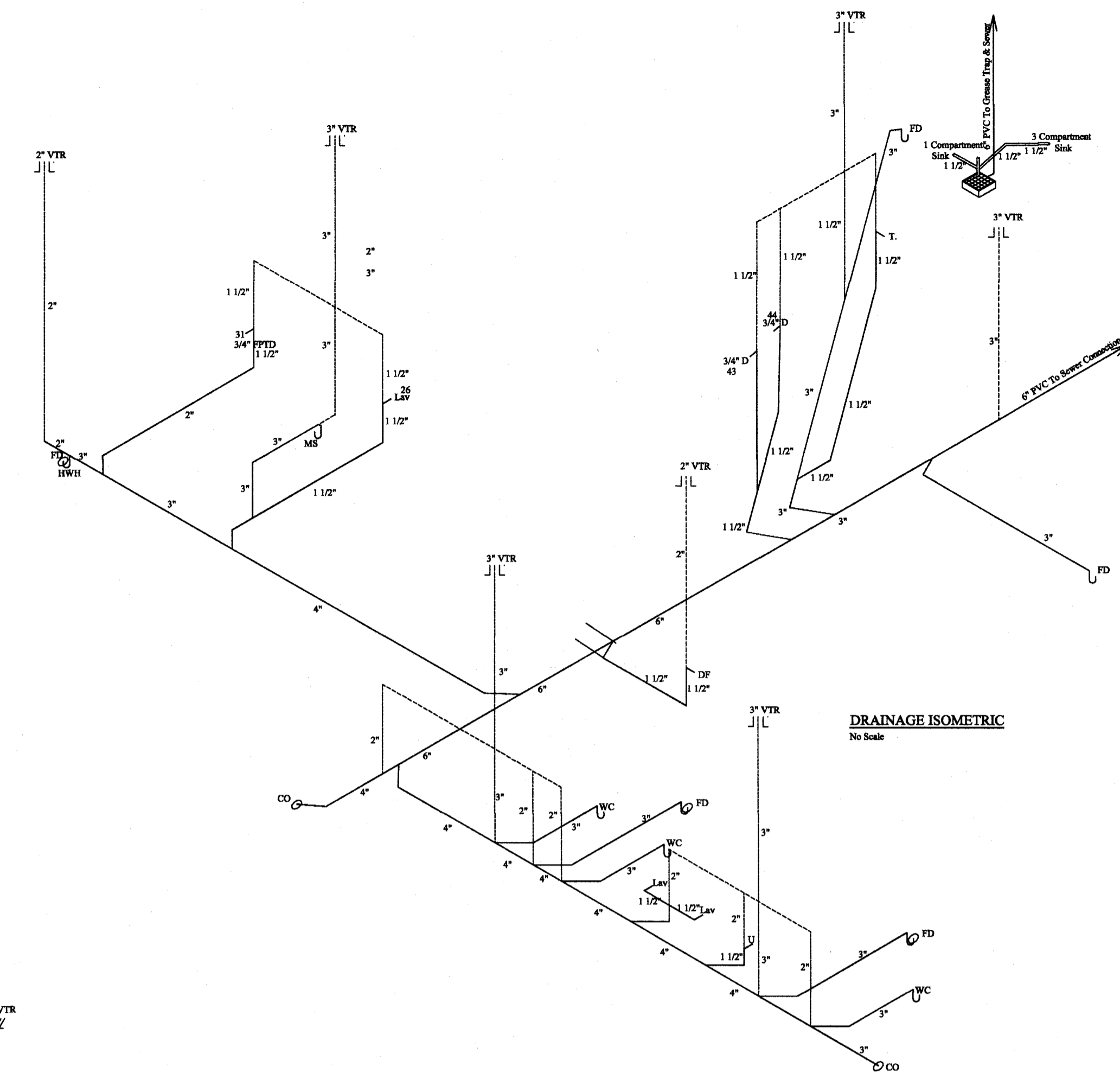
**HANDICAP BARS PLACEMENT**  
No Scale



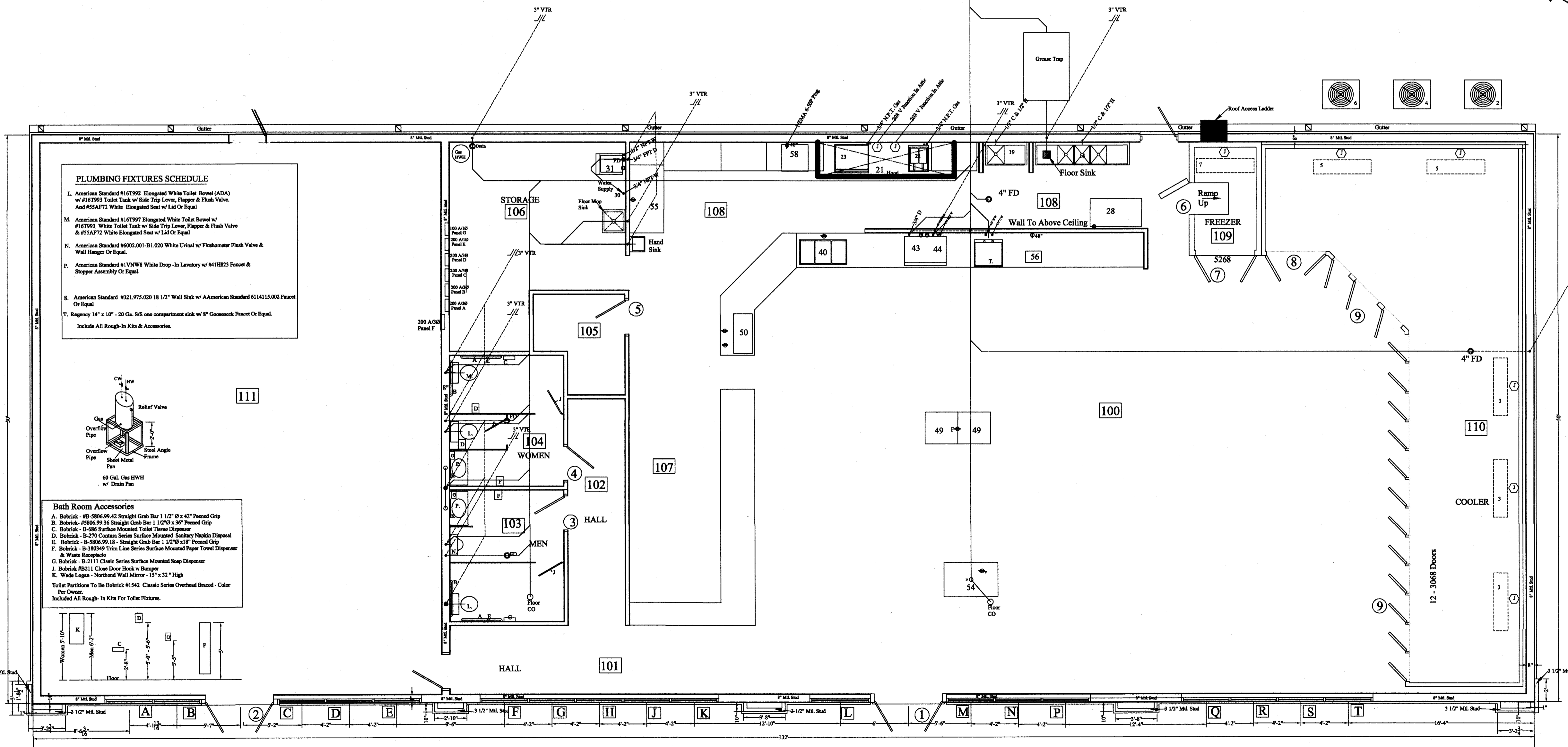
**BATH LAVATORY CABINET**



**WATER SUPPLY ISOMETRIC**  
No Scale  
Insulate All Hot & Cold Water Supply Lines Above Ceiling.



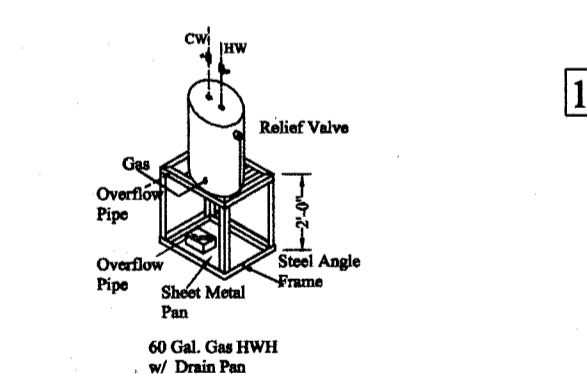
**DRAINAGE ISOMETRIC**  
No Scale



**PLUMBING FIXTURES SCHEDULE**

- I. American Standard #161992 Elongated White Toilet Bowl (ADA) w/ #161993 Toilet Tank w/ Side Trip Lever, Flapper & Flush Valve. ADA #54772 White Elongated Seat w/ Lid Or Equal.
- M. American Standard #161997 Elongated White Toilet Bowl w/ #161993 White Toilet Tank w/ Side Trip Lever, Flapper & Flush Valve & #54772 White Elongated Seat w/ Lid Or Equal.
- N. American Standard #6002-001-81.020 White Urinal w/ Flushometer Flush Valve & Wall Hanger Or Equal.
- Z. American Standard #1VNW6 White Drop-In Lavatory w/ #418823 Faucet & Stopper Assembly Or Equal.
- S. American Standard #321.975.020 18 1/2" Wall Sink w/ American Standard #114115.002 Faucet Or Equal.
- T. Regency 14" x 10" - 20 Ga. 5/8" rim compartment sink w/ 8" Chromastone Faucet Or Equal.

Include All Rough-In Kits & Accessories.



- Bath Room Accessories**
- A. Bobrick - #B-2806-99-42 Straight Grab Bar 1 1/2" x 42" Permed Grip
  - B. Bobrick - #B-2806-99-36 Straight Grab Bar 1 1/2" x 36" Permed Grip
  - C. Bobrick - #B-486 Surface Mounted Toilet Tissue Dispenser
  - D. Bobrick - #B-270 Counter Series Surface Mounted Sanitary Napkin Dispenser
  - E. Bobrick - #B-5006-99-18 - Straight Grab Bar 1 1/2" x 18" Permed Grip
  - F. Bobrick - #B-30549 Trim Line Series Surface Mounted Paper Towel Dispenser & Waste Receptacle
  - G. Bobrick - #B-2311 Classic Series Surface Mounted Soap Dispenser
  - J. Bobrick #B211 Close Door Hook w/ Bumper
  - K. Wade Logan - Northend Wall Mirror - 15" x 12" High
- Toilet Partitions To Be Bobrick #1542 Classic Series Overhead Inwood - Color Per Owner.  
Included All Rough-In Kits For Toilet Fixtures.

**PLUMBING PLAN**  
Scale: 3/16" = 1'-0"

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**A NEW CHAMPS CONVENIENCE STORE**  
U.S. HWAY 401 NORTH  
Fuquay-Varina, North Carolina 27526

**RJB, PE, PA**  
C-0269  
Robert J. Bracken  
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3768 Carabotton Road • Sanford, NC 27330

SCALE: 1/4" = 1'-0"
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SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER REG. NO. 2913 ROBERT J. BRACKEN

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EQUIPMENT SCHEDULE						
TAG	MODEL	HEATING BTU @ 17°F	LOW C.O.P.	COOLING BTU	SEER RATING	VOLTS / PHASE
RTU #1		90,000		42,000	14.25	208/230/1Ø
RTU #2		90,000		48,500	14.2	208/230/1Ø
RTU #3		90,000		48,500	12	208/230/1Ø
RTU #4		90,000		48,500	12	208/230/1Ø

AIR DISTRIBUTION SCHEDULE						
TAG	MODEL	TYPE	SIZE	FINISH	DUCT SIZE	CFM
A		Lay-In	24"x24"	White	6"	
B		Lay-In	24"x24"	White	8"	
C		Lay-In	24"x24"	White	9"	
H		Lay-In	24"x24"	White	10"	
J		Lay-In	24"x24"	White	20"x20"	

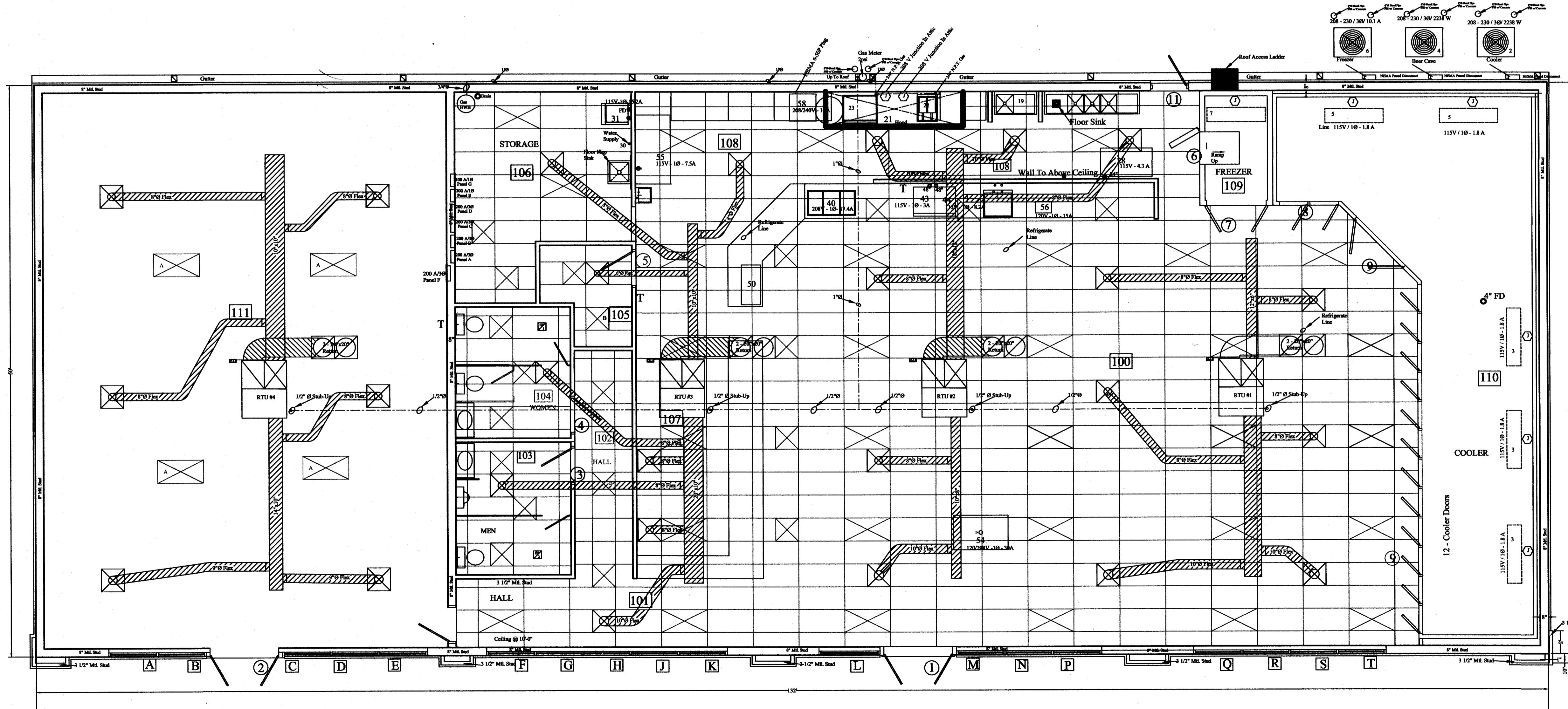
FAN SCHEDULE						
TAG	MODEL	TYPE	CFM	RPM	VOLTS	SONES
EF #1		Ceiling Exhaust Fan	200	900	110 V / 1Ø	2.3
EF #2		Ceiling Exhaust Fan	200	900	110 V / 1Ø	2.3

**MECHANICAL NOTES**

Control wiring by Mechanical Contractor.  
 Power wiring from fused disconnects by Mechanical Contractor.  
 Manual thermostat w/ 18/10 thermostat wire.  
 Condensate unit to be bolted to floor.  
 Galvanized duct work w/ 1 1/2" fiberglass insulation w/ leading edge cover.  
 Fiberglass liner to be buttered at all joints w/ adhesive.  
 Duct joints to receive sealer at all penetrations.  
 Rectangular duct measurements are external.  
 Flexible fiberglass branch lines to be class #1.  
 Branch take-offs to be gasket type w/ manual damper.  
 Branch line connections to be banded.  
 18" or larger duct to be cross-braced.  
 Canvas connections at all air handlers.  
 Adjust air quantities to those shown on plans.  
 Fresh air duct gets 2" insulated wrap.  
 Wall sleeves & refrigerant lines by Mechanical Contractor.  
 Smoke detectors in return plenums.  
 Toilet exhaust fans supplied by Mechanical Contractor & wired by Electrical Contractor.  
 Gas piping to be schedule 40 black iron.  
 Liner to be glued-full coverage - spot pins @ 12" O/C horizontal & vertical.  
 Turning vanes in rectangular ductells.  
 Use wall sleeves for gas piping & refrigerate lines.  
 Emergency drain pan for all A/C coils.  
 No refrigerate line joints in wall cavity.  
 Duct hangers attached horizontally or vertically.  
 Mount equipment w/ moving parts on isolation pads.  
 Do not use stamped registers or grills.  
 Fresh air duct wrapped externally.

Symbols:  
 T - Thermostat    □ - Manual Damper    S.D. - Smoke Detector  
 F.D. - Fire Damper    SP.D - Splitter Damper

Spot Weld 26 Ga. Galvanized  
 Air Flow → 1 1/2" Insulation  
 Spot Weld 26 Ga. Galvanized  
 Duct Work Insulation  
 Leading Edge Cover  
 No Scale



**HVAC PLAN**  
 Scale: 3/16" = 1'-0"  
 Gas Piping To Be Black Iron Pipe  
 Gas Piping To Go Up Rise Wall & Go Into Attic & Stub Up At Each Roof Top Unit.

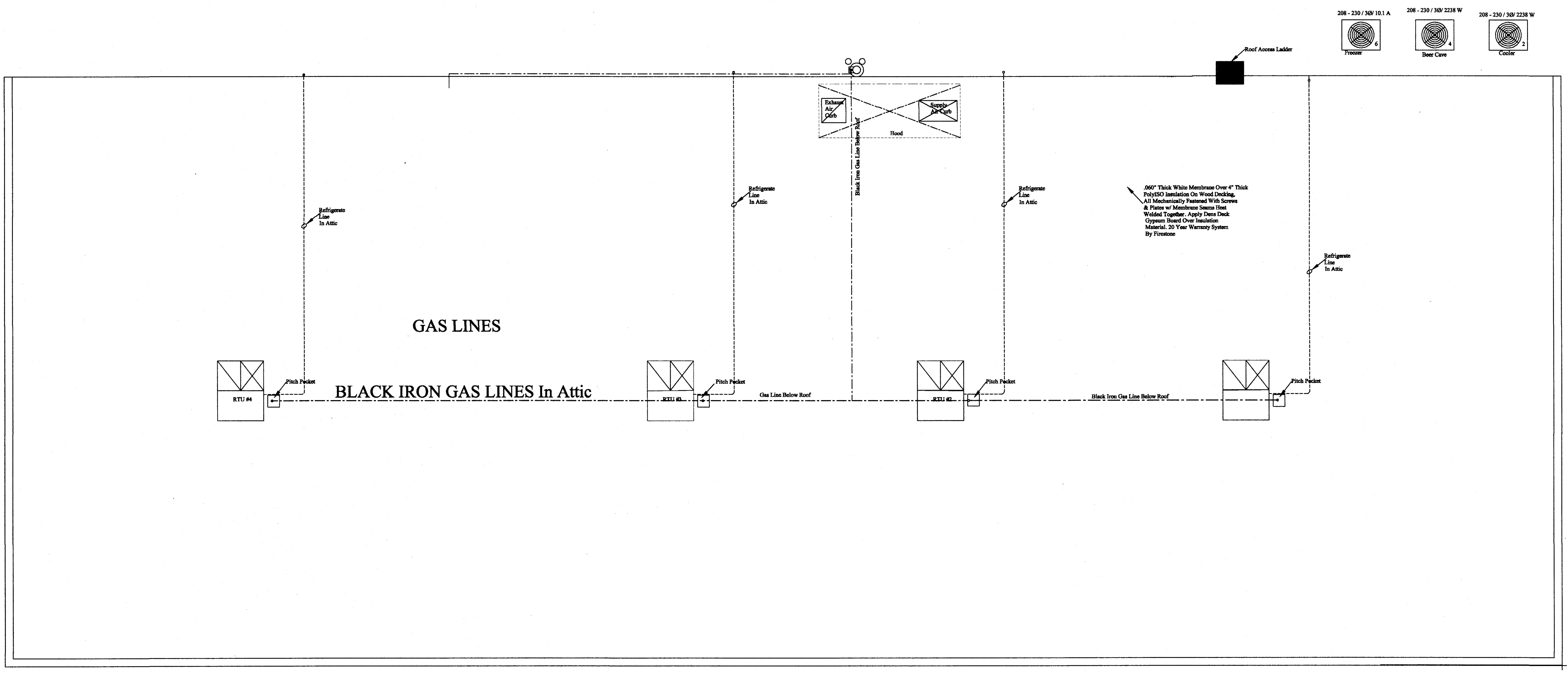
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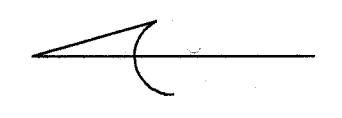
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 Robert J. Bracken  
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 3768 Caribton Road • Sanford, NC 27330

SCALE: 3/16" = 1'-0"  
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ROOF TOP LAYOUT  
Scale: 3/16" = 1'-0"



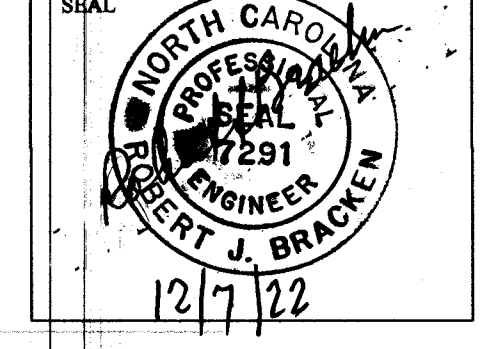
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Robert J. Bracken  
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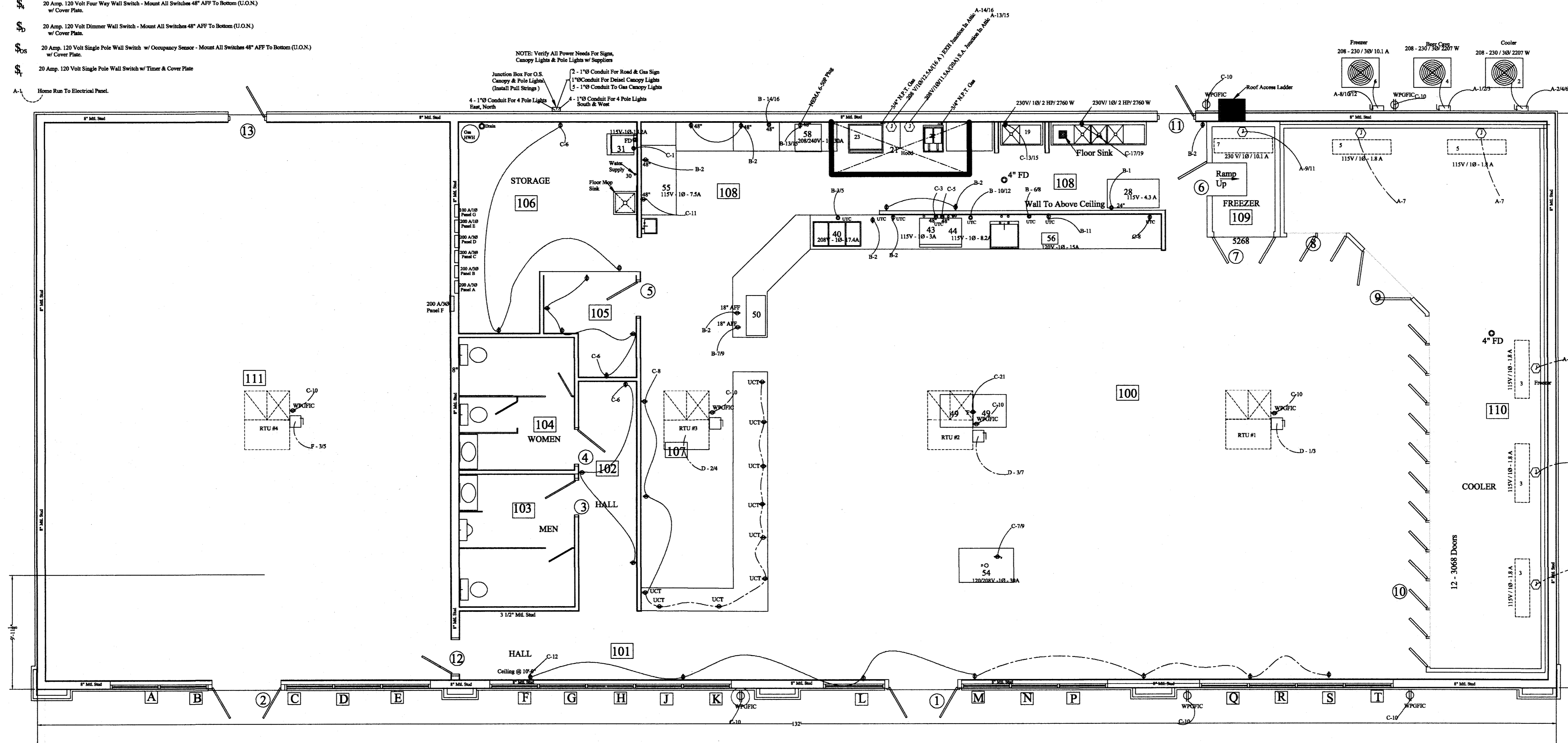


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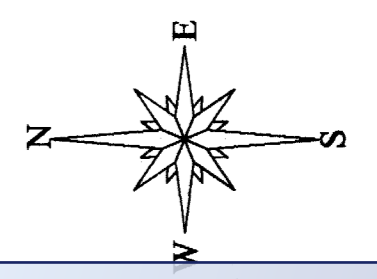
**ELECTRICAL LEGEND**

- ⊗ Egress Light
- ⊕ Wall Packs
- ⊕ Emergency Light
- ⊕ Emergency/Exit Light
- ⊕ Exit Light
- UTC 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO - Under Top Counter
- ⊕ 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO
- ⊕ 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO
- ⊕ 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO
- ⊕ 15 Amp 120 Volt Weather Proof Ground Fault Receptacle w/ Weather Proof Cover. @18" AFF UNO
- ⊕ 30 Amp 220 Volt Wall Receptacle w/ Appropriate Cover Plate - (See Appliance For Proper Ampage). @18" AFF UNO
- ⊕ 30 A - 208-240V - 1 Ø - Floor Receptacle
- ⊕ Disconnect Switch - See Electrical Plans & HVAC Plans For Locations And Ampage.
- ⊕ Telephone Outlet: Electrical Contractor To Provide Box And Install Pull String And Proper Plate
- ⊕ Computer Outlet: Electrical Contractor To Provide Box And Install Pull String And Proper Plate.
- JUNCTION BOX: PROVIDE BOC & COVER AS REQUIRED TO SERVE EQUIPMENT.
- ⊕ Junction Box: Provide Box & Cover As Required To Serve Equipment.
- ⊕ 20 Amp 120 Volt Single Pole Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Three Way Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Four Way Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Dimmer Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Single Pole Wall Switch w/ Occupancy Sensor - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Single Pole Wall Switch w/ Timer & Cover Plate
- Home Run To Electrical Panel.



**ELECTRICAL POWER PLAN**  
Scale: 3/16" = 1'-0"

ELECTRICAL PANEL: 12" In For O.S. Area Pole Lights & Lights & Gas Pump Island.  
Lights & Conduit Wire & Circuit Breakers By Others



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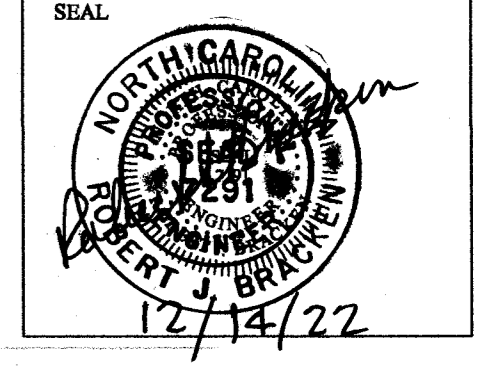
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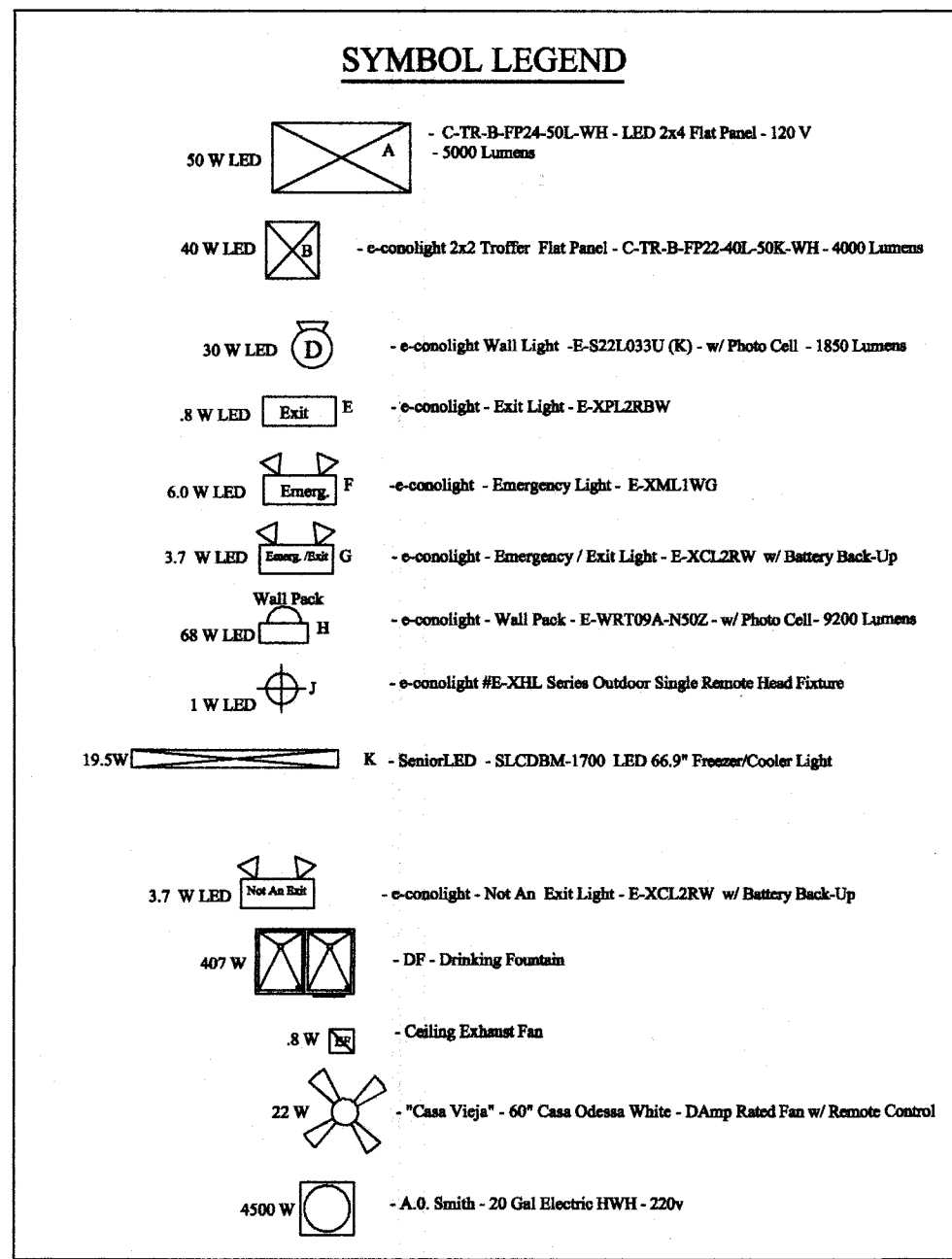
**RJB, PE, PA**  
C-0269  
Robert J. Bracken  
ENGINEERING • SURVEYING  
3768 Carabonton Road • Sanford, NC 27330

SCALE: 3/16" = 1'-0"  
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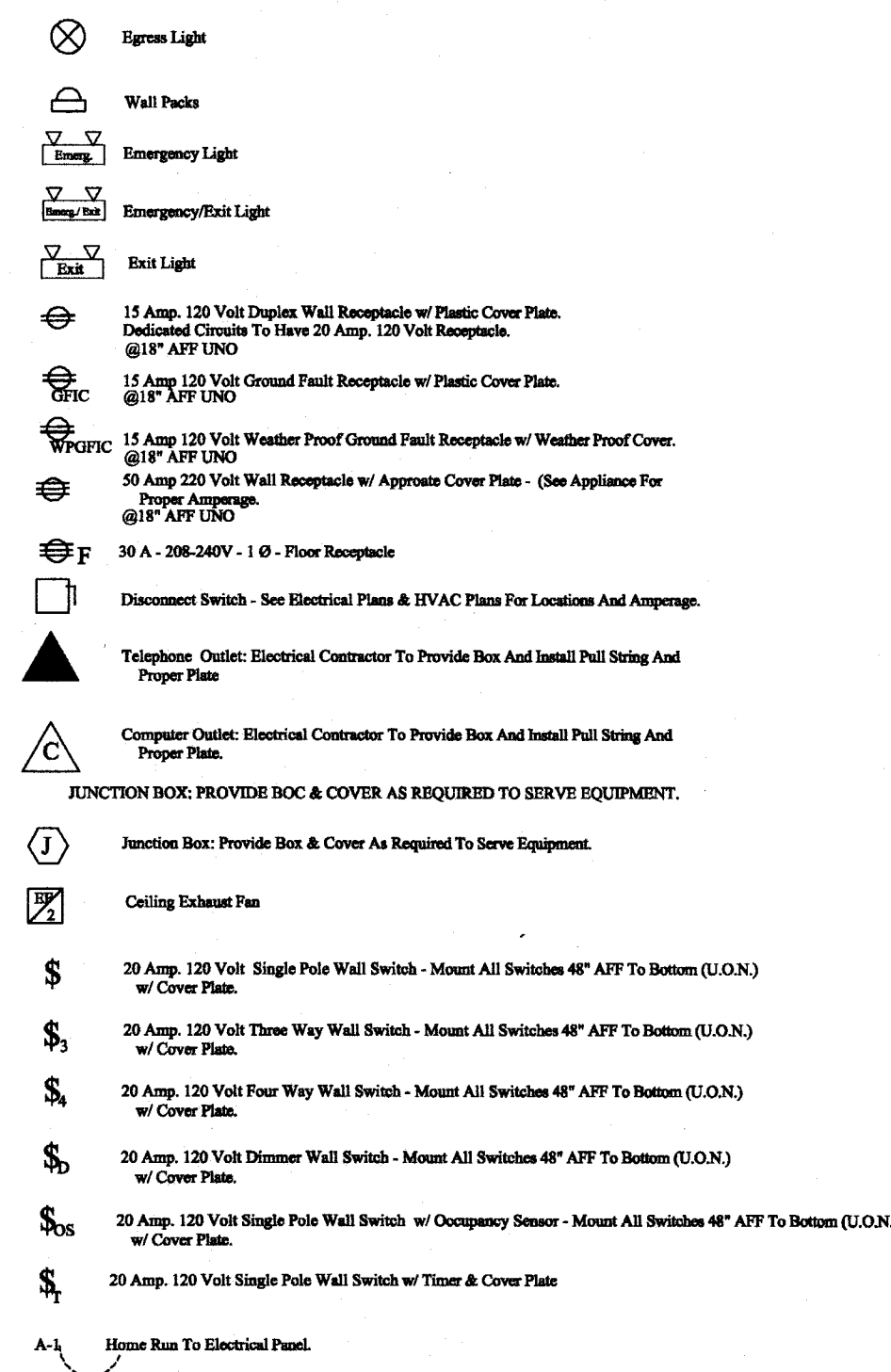
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12/14/22

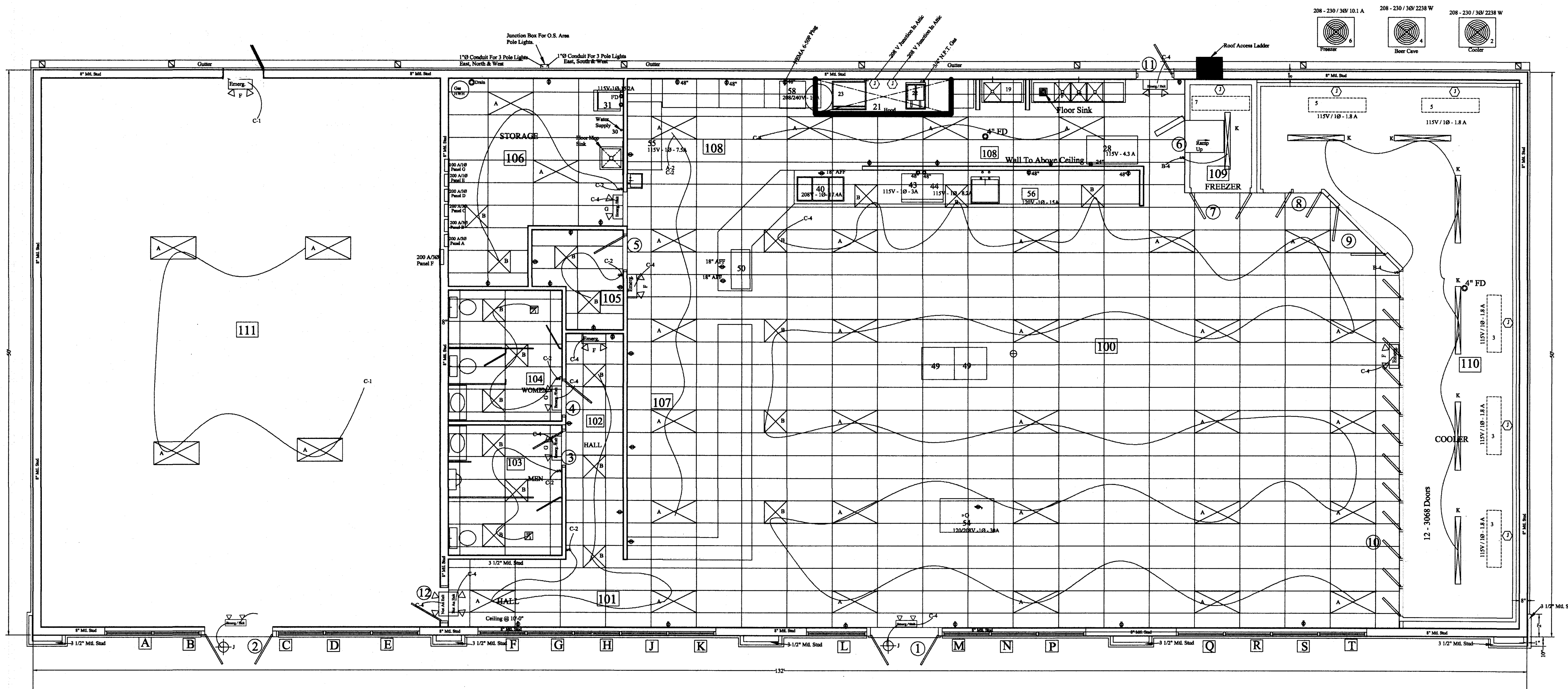


### ELECTRICAL LEGEND



### ELECTRICAL NOTES

- All Electrical Work Shall Be In Accordance w/ The National Electrical Code, Latest Edition, All State And Local Codes Having Jurisdiction, And The Requirements Of The Local Electrical Inspector.
- The Electrical Contractor Shall Be Responsible For Obtaining All Permits, And Paying All Fees, Including Any Connection And Inspection Fees Associated With The Electrical Portion Of The Project.
- All Circuits Shall Be Copper, THHN Or THW.
- All Circuits Shall Have Breaker Size As Indicated On Electrical Panel Diagrams.
- All Wiring For Circuits Shall Have The Same Ampacity As The Breaker Serving It.
- The Electrical Contractor Shall Legibly Identify (Typewritten) Each Circuit In The Panels.
- All Locations Where Multiple Switches Are Shown, They Shall Be Installed In Multi-Cong Boxes w/ Multi-Cong Cover Plates.



**ELECTRICAL LIGHTING PLAN**  
Scale: 3/16" = 1'-0"

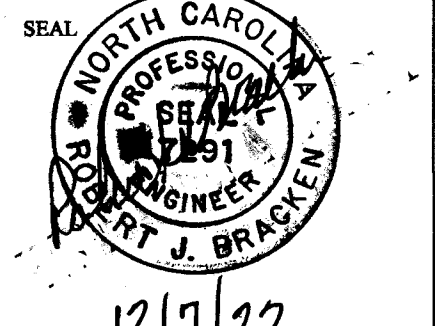
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Fuquay-Varina, North Carolina 27526

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Robert J. Bracken  
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PANEL BOARD SCHEDULE													
PANELBOARD DESIGNATION - MDP				TYPE OF PANEL - MAIN DISTRIBUTION PANEL				MOUNTING - SURFACE					
VOLTAGE : 208/120/3 PH4WIRE				BUS SIZE (AMPS) : 100A				MAIN SWITCH - MSB					
POLES : 3PHN				TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL				AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C K T #	CB	WIRE SIZE	LOAD (WATTS)			LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)			WIRE SIZE	CB	C K T #
			A Ø	B Ø	C Ø			A Ø	B Ø	C Ø			
1	200	4	41,600			Panel 'A' 200 A	Panel 'W' 200 A	41,600			4	200	1
2		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	2
3		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	3
4		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	4
5		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	5
6		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	6
7		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	7
8		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	8
9		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	9
10		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	10
11		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	11
12		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	12
13		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	13
14		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	14
15		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	15
16		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	16
17		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	17
18		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	18
19		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	19
20		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	20
21		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	21
22		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	22
23		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	23
24		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	24
25		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	25
26		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	26
27		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	27
28		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	28
29		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	29
30		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	30
31		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	31
32		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	32
33		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	33
34		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	34
35		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	35
36		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	36
37		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	37
38		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	38
39		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	39
40		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	40
41		4	41,600			Panel 'A'	Panel 'W'		41,600		4	200	41

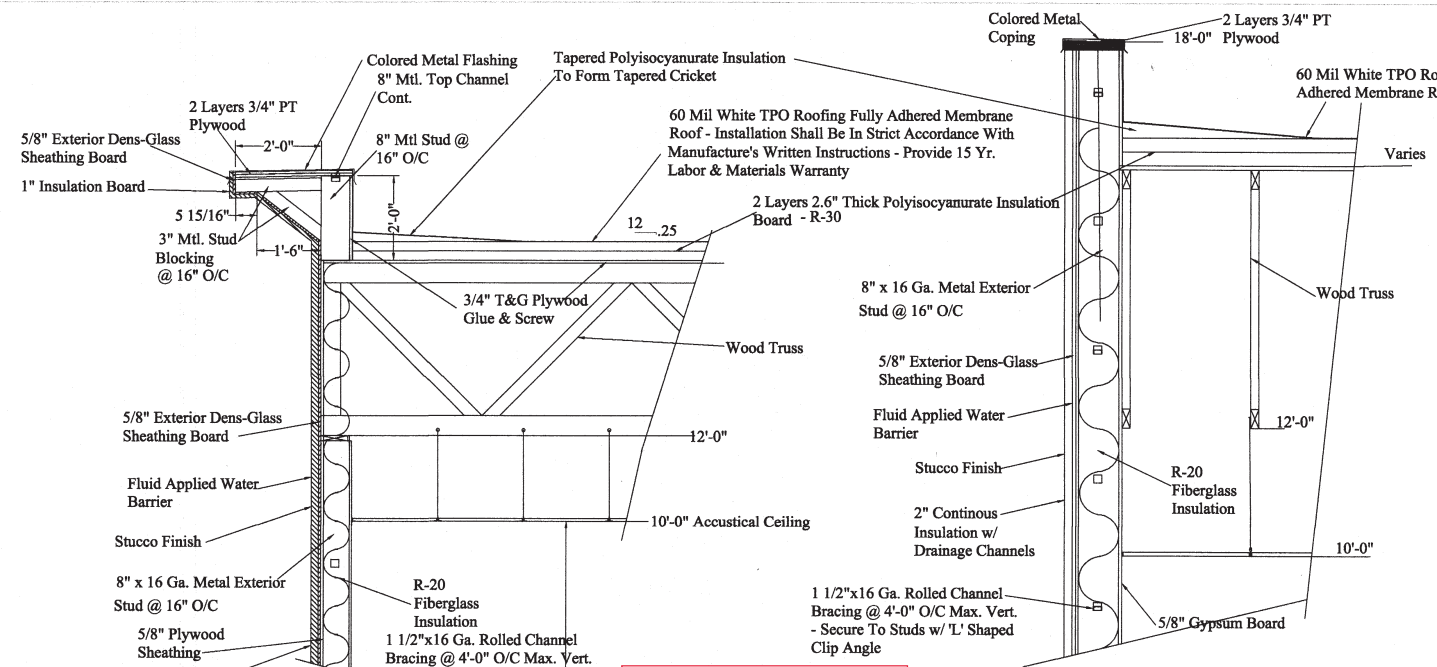
NOTE: Electrical Contractor Responsible To Check w/ Local Electrical Supplier On Amps Interrupting Rating.  
General Contractor And Electrical Contractor Shall Walk Through the Space With Owner Prior To Beginning Electrical Rough-In To Verify Fixture And Device Location.  
General Contractor Shall Provide Owner With Cut Sheets Of Proposed Fixtures And Devices For Review And Approval Prior To Ordering.

PANEL BOARD SCHEDULE													
PANELBOARD DESIGNATION - A				TYPE OF PANEL - CIRCUIT BREAKER				MOUNTING - FLUSH					
VOLTAGE : 208/120/3 PH4WIRE				BUS SIZE (AMPS) : 200A				MAIN SWITCH - MSB					
POLES : 3PHN				TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL				AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C K T #	CB	WIRE SIZE	LOAD (WATTS)			LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)			WIRE SIZE	CB	C K T #
			A Ø	B Ø	C Ø			A Ø	B Ø	C Ø			
1		8	2207			#4 - Beer Cmn O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	1
2		8	2207			#4 - Beer Cmn O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	2
3		8	2207			#4 - Beer Cmn O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	3
4		8	2207			#4 - Beer Cmn O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	4
5		8	2207			#4 - Beer Cmn O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	5
6		8	2207			#4 - Beer Cmn O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	6
7		10	1839			#3 & #5 - Beer Cmn & Cooler I.S. Units (1.8A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	7
8		10	1839			#3 & #5 - Beer Cmn & Cooler I.S. Units (1.8A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	8
9		10	1839			#3 & #5 - Beer Cmn & Cooler I.S. Units (1.8A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	9
10		10	1839			#3 & #5 - Beer Cmn & Cooler I.S. Units (1.8A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	10
11		10	1839			#3 & #5 - Beer Cmn & Cooler I.S. Units (1.8A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	11
12		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	12
13		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	13
14		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	14
15		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	15
16		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	16
17		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	17
18		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	18
19		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	19
20		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	20
21		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	21
22		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	22
23		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	23
24		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	24
25		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	25
26		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	26
27		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	27
28		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	28
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30		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	30
31		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	31
32		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	32
33		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	33
34		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	34
35		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	35
36		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	36
37		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	37
38		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	38
39		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	39
40		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	40
41		10	1893			#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	41

NOTE: Electrical Contractor Responsible To Check w/ Local Electrical Supplier On Amps Interrupting Rating.  
General Contractor And Electrical Contractor Shall Walk Through the Space With Owner Prior To Beginning Electrical Rough-In To Verify Fixture And Device Location.  
General Contractor Shall Provide Owner With Cut Sheets Of Proposed Fixtures And Devices For Review And Approval Prior To Ordering.

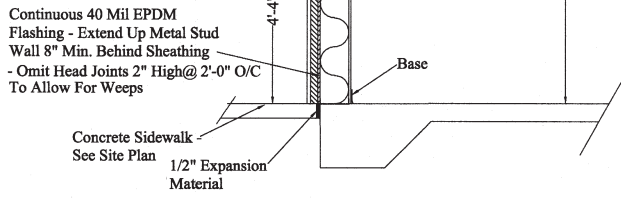
PANEL BOARD SCHEDULE													
PANELBOARD DESIGNATION - B				TYPE OF PANEL - CIRCUIT BREAKER				MOUNTING - FLUSH					
VOLTAGE : 208/120/3 PH4WIRE				BUS SIZE (AMPS) : 200A				MAIN SWITCH - MSB					
POLES : 3PHN				TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL				AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C K T #	CB	WIRE SIZE	LOAD (WATTS)			LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)			WIRE SIZE	CB	C K T #
			A Ø	B Ø	C Ø			A Ø	B Ø	C Ø			
1	20	12	500			#28 - 2 Door Cooler (4.3A)	Recept: 100 - E, 108 - 6N/W	1260			12	20	1
2		8	3619			#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	2
3		8	3619			#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	3
4		8	3619			#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	4
5		8	3619			#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	5
6		8	3619			#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	6
7		10	2122			#60 - Hot Display Case (10.2A)	Recept: 100 - E (LTC)	3600			10	30	7



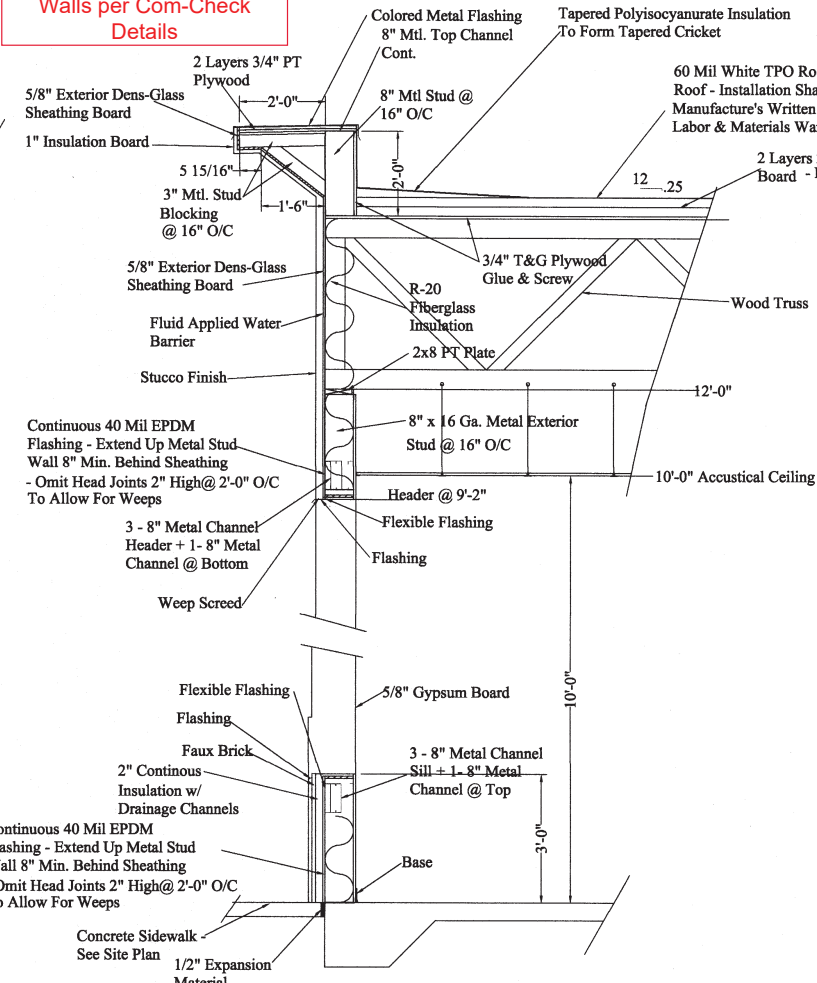


**TYPICAL WALL SECTION - "3"**  
No Scale x 2

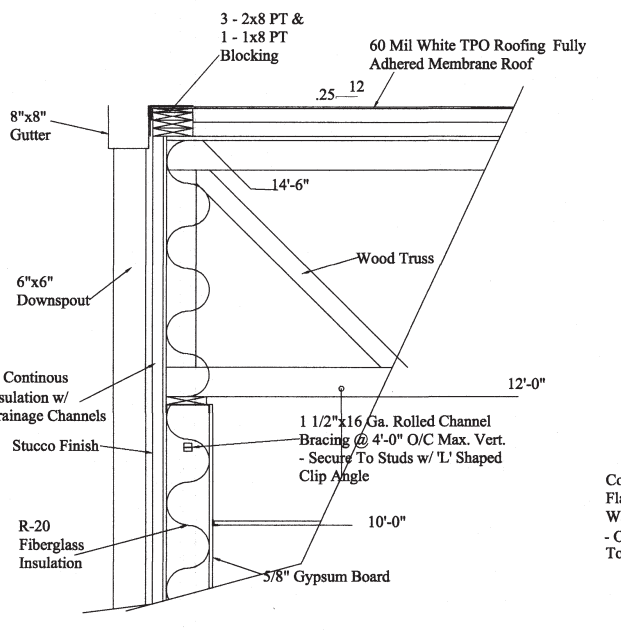
**Note: R-21 Insulation  
Typical In All Exterior Wall  
Cavities and R-3.6  
Continuous Exterior  
Insulation On All Exterior  
Walls per Com-Check  
Details**



**TYPICAL WALL SECTION - "1"**  
No Scale x 2

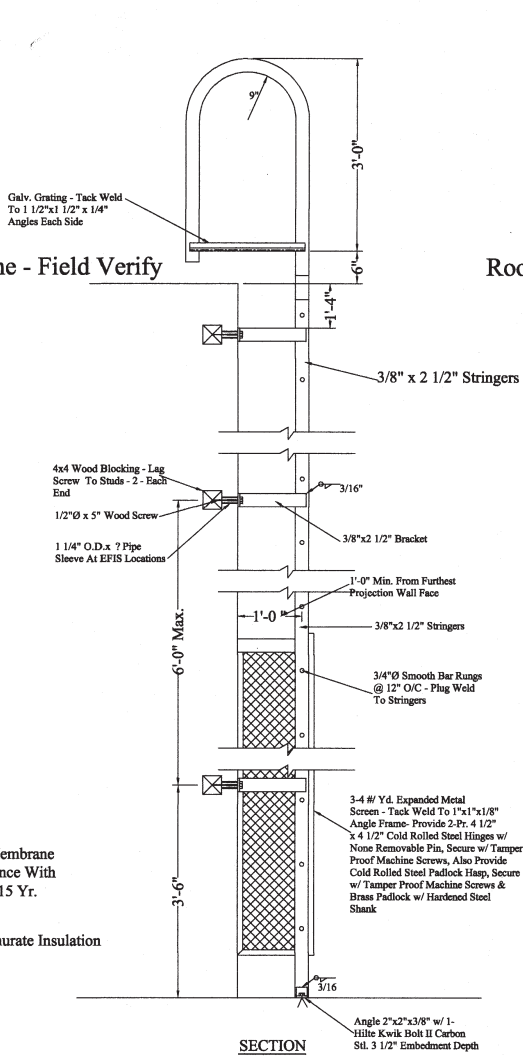


**TYPICAL WALL SECTION - "2"**  
No Scale x 2



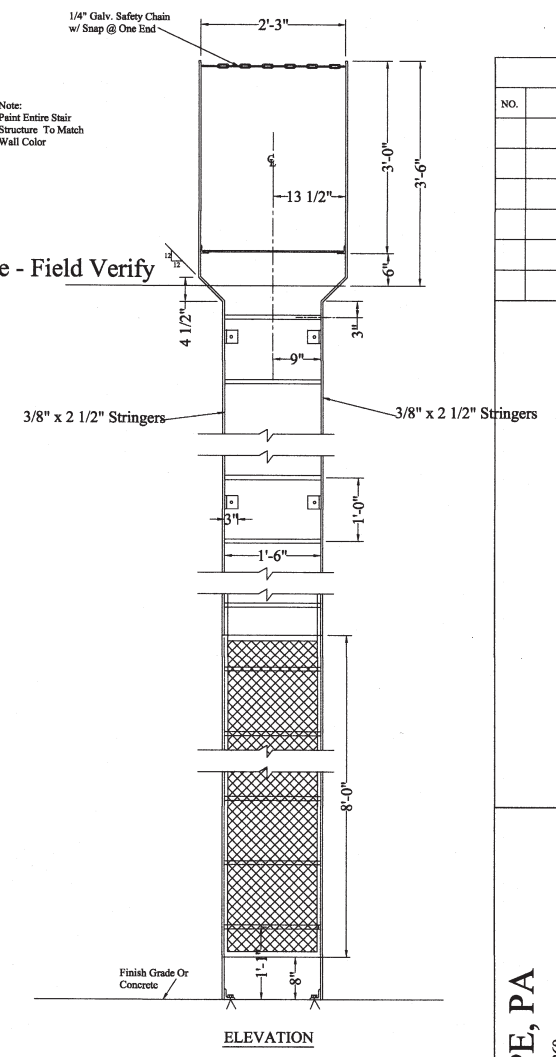
**TYPICAL WALL SECTION - "4"**  
No Scale x 2

**Roof Line - Field Verify**

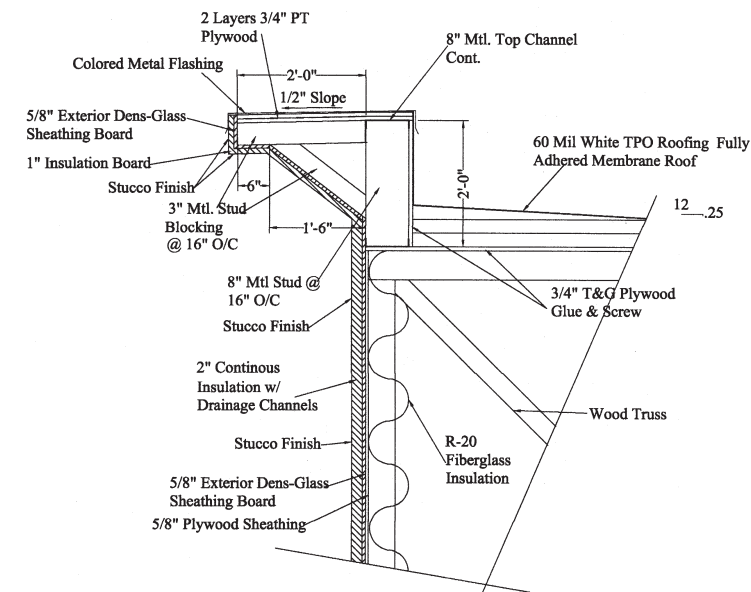


**ROOF LADDER DETAIL**  
3/4" = 1'-0"

**Roof Line - Field Verify**



**ELEVATION**



**CORNICE DETAIL**  
No Scale x3

REVISIONS	
NO.	DATE

**A NEW CHAMPS CONVENIENCE STORE**  
U.S. HWAY 401 NORTH  
Fuquay-Varina, North Carolina 27526

**RJB, PE, PA**  
C-0269

**Robert J. Bracken**  
ENGINEERING • SURVEYING

3768 Caribton Road • Sanford, NC 27330

SCALE: 1/4" = 1'-0"

DRAWN BY: WRJ

DATE:

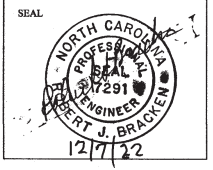
CHECKED BY: RJB

DWG. NUMBER:

JOB NUMBER:

SHEET NO:

**G - 3**



**RECEIVED**  
By Regency Construction at 2:42 pm, Feb 20, 2024



# Envelope Compliance Certificate

## Project Information

Energy Code: 2015 IECC  
 Project Title: Champs Building  
 Location: Fuquay-Varina, North Carolina  
 Climate Zone: 4a  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 10%

Construction Site: Fuquay-Varina, NC 27526	Owner/Agent: Jay Ambe Shatki LLC - Champs Convenience Store 8920 Hwy 401 North Fuquay-Varina, NC 27526	Designer/Contractor: Regency Construction P O Box 25640 Fayetteville, NC 28314 910-424-0455 regency@regencync.com
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## Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed  
 Enhanced Interior Lighting Controls, 1.0 credit

## Building Area

## Floor Area

1-Retail : Nonresidential	6600
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## Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sup>(a)</sup>
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Retail]	6600	---	30.0	0.032	0.032
Floor 1: Slab-On-Grade:Unheated, Vertical 2 ft., [Bldg. Use 1 - Retail] (c)	364	---	15.0	0.520	0.540
<b><u>NORTH</u></b>					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	763	21.0	3.6	0.077	0.064
<b><u>EAST</u></b>					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	1914	21.0	3.6	0.077	0.064
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21	---	---	0.620	0.610
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21	---	---	0.620	0.610
<b><u>SOUTH</u></b>					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	763	21.0	3.6	0.077	0.064
<b><u>WEST</u></b>					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	2112	21.0	3.6	0.077	0.064
Window1 over Door: Metal Frame, Perf. Specs.: Product ID 1, SHGC 0.23, PF 3.00, [Bldg. Use 1 - Retail] (b)	13	---	---	0.286	0.380
Window2 over Door: Metal Frame, Perf. Specs.: Product ID 1, SHGC 0.23, PF 3.00, [Bldg. Use 1 - Retail] (b)	13	---	---	0.286	0.380
Window Large: Metal Frame, Perf. Specs.: Product ID 1, SHGC 0.23, PF 3.00, [Bldg. Use 1 - Retail] (b)	37	---	---	0.286	0.380
Window Standard: Metal Frame, Perf. Specs.: Product ID 1, SHGC 0.23, PF 3.00, [Bldg. Use 1 - Retail] (b)	25	---	---	0.286	0.380
Window Standard copy 1: Metal Frame, Perf. Specs.: Product ID 1,	25	---	---	0.286	0.380





# Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] <sup>1</sup>	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.1 [PR10] <sup>1</sup>	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.1 [PR11] <sup>1</sup>	The skylight area <= 3 percent of the gross roof area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.2 [PR14] <sup>1</sup>	In enclosed spaces > 2,500 ft <sup>2</sup> directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4] <sup>2</sup>	Slab edge insulation installed per manufacturer's instructions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2.1 [FO6] <sup>1</sup>	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C104 [FO3] <sup>2</sup>	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Envelope Assemblies table for values.</i>

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12] <sup>2</sup>	Fenestration products rated in accordance with NFRC.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.1.3 [FR13] <sup>1</sup>	Fenestration products are certified as to performance labels or certificates provided.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.3 [FR10] <sup>1</sup>	Vertical fenestration SHGC value.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.4.3, C402.4.3.4 [FR8] <sup>1</sup>	Vertical fenestration U-Factor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.4.4 [FR14] <sup>2</sup>	U-factor of opaque doors associated with the building thermal envelope meets requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.5.1.2.1 [FR19] <sup>1</sup>	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability $\leq 0.004$ dfm/ft <sup>2</sup> . Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.2, C402.5.4 [FR18] <sup>3</sup>	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.7 [FR17] <sup>3</sup>	Vestibules are installed on all building entrances. Doors have self-closing devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.5, C403.2.4.3 [ME3] <sup>3</sup>	Stair and elevator shaft vents have motorized dampers that automatically close.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.5, C403.2.4.3 [ME58] <sup>3</sup>	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3] <sup>1</sup>	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is ≤3 in 12.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.1 [IN10] <sup>2</sup>	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2 [IN7] <sup>1</sup>	Above-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2.1 [IN14] <sup>2</sup>	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.2.1 [IN17] <sup>3</sup>	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C104 [IN6] <sup>1</sup>	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Envelope Assemblies table for values.</i>
C104 [IN8] <sup>2</sup>	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Envelope Assemblies table for values.</i>
C402.2.6 [IN18] <sup>3</sup>	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C104 [IN2] <sup>1</sup>	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Envelope Assemblies table for values.</i>
C402.5.1.1 [IN1] <sup>1</sup>	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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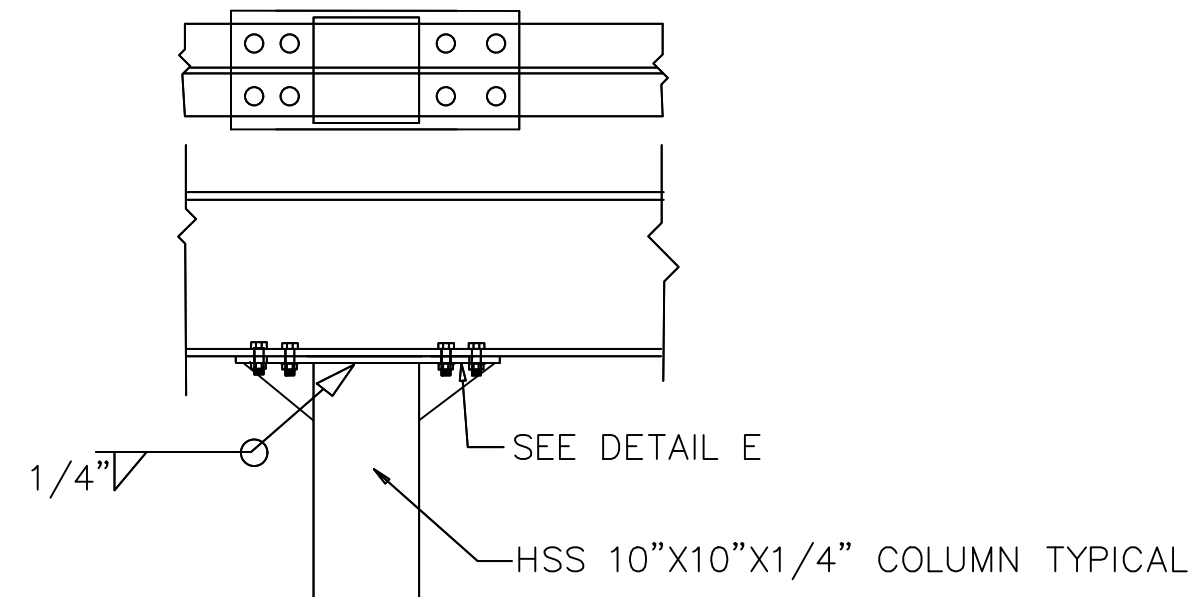
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.3 [FI51] <sup>3</sup>	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.6 [FI37] <sup>1</sup>	Weatherseals installed on all loading dock cargo doors.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.8 [FI26] <sup>3</sup>	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

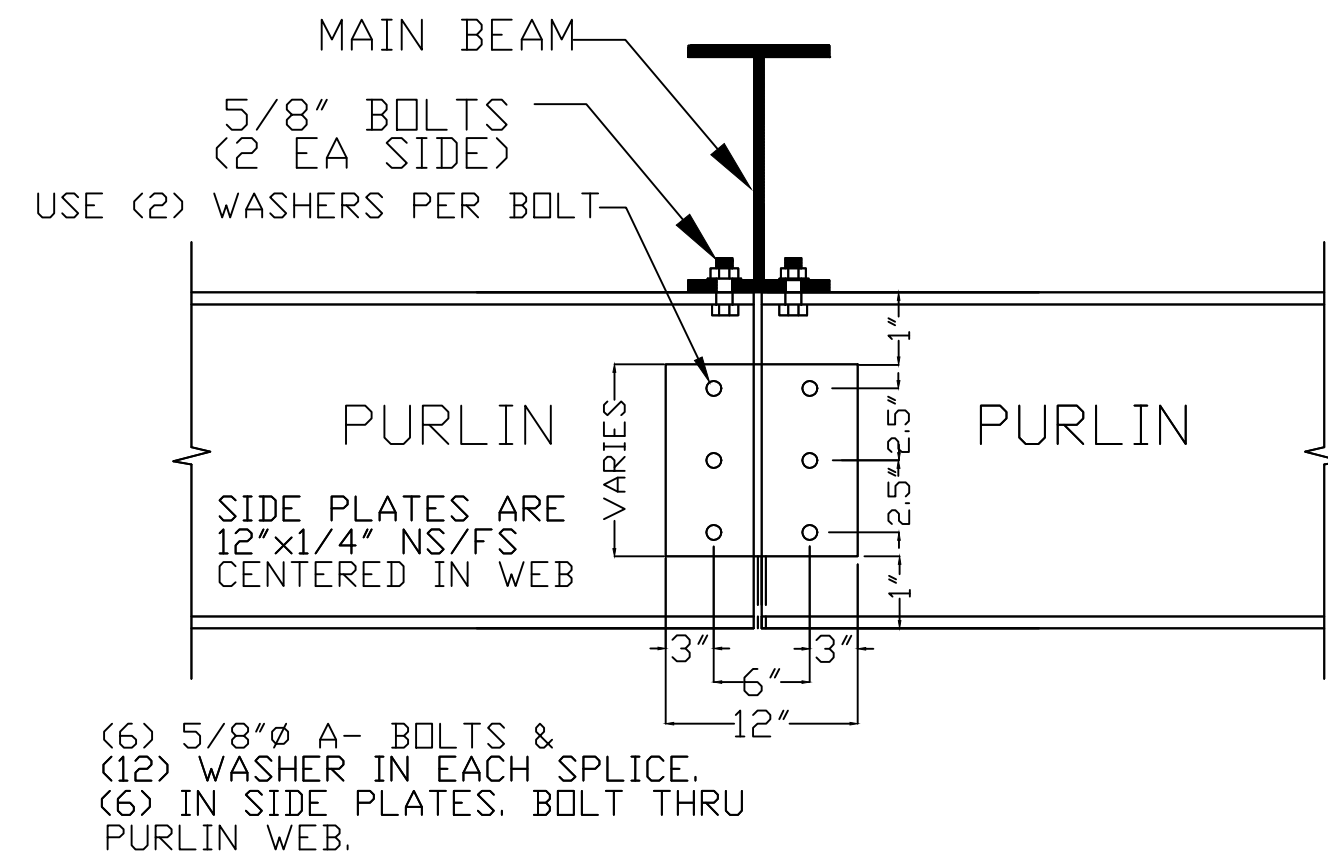
1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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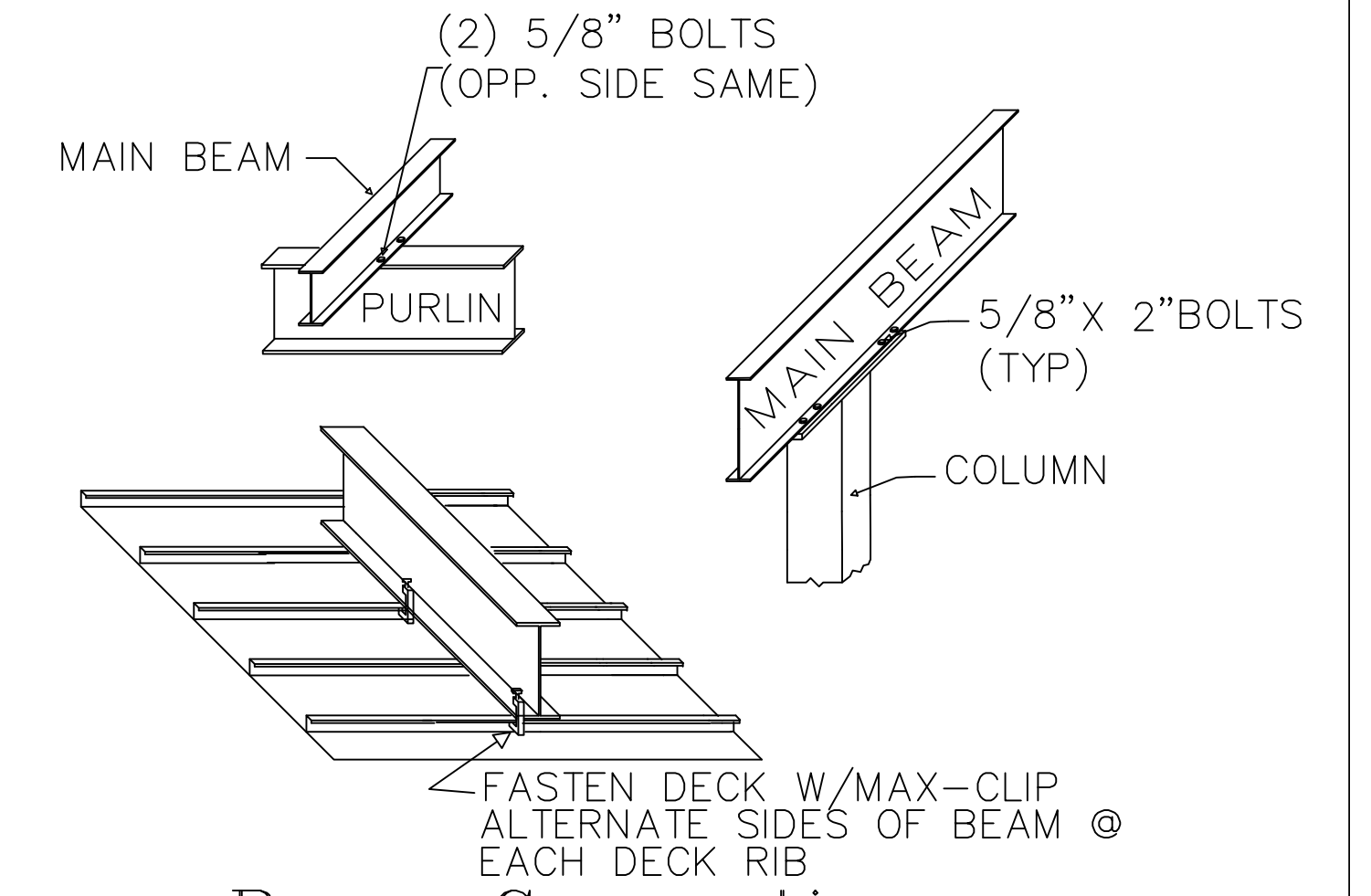




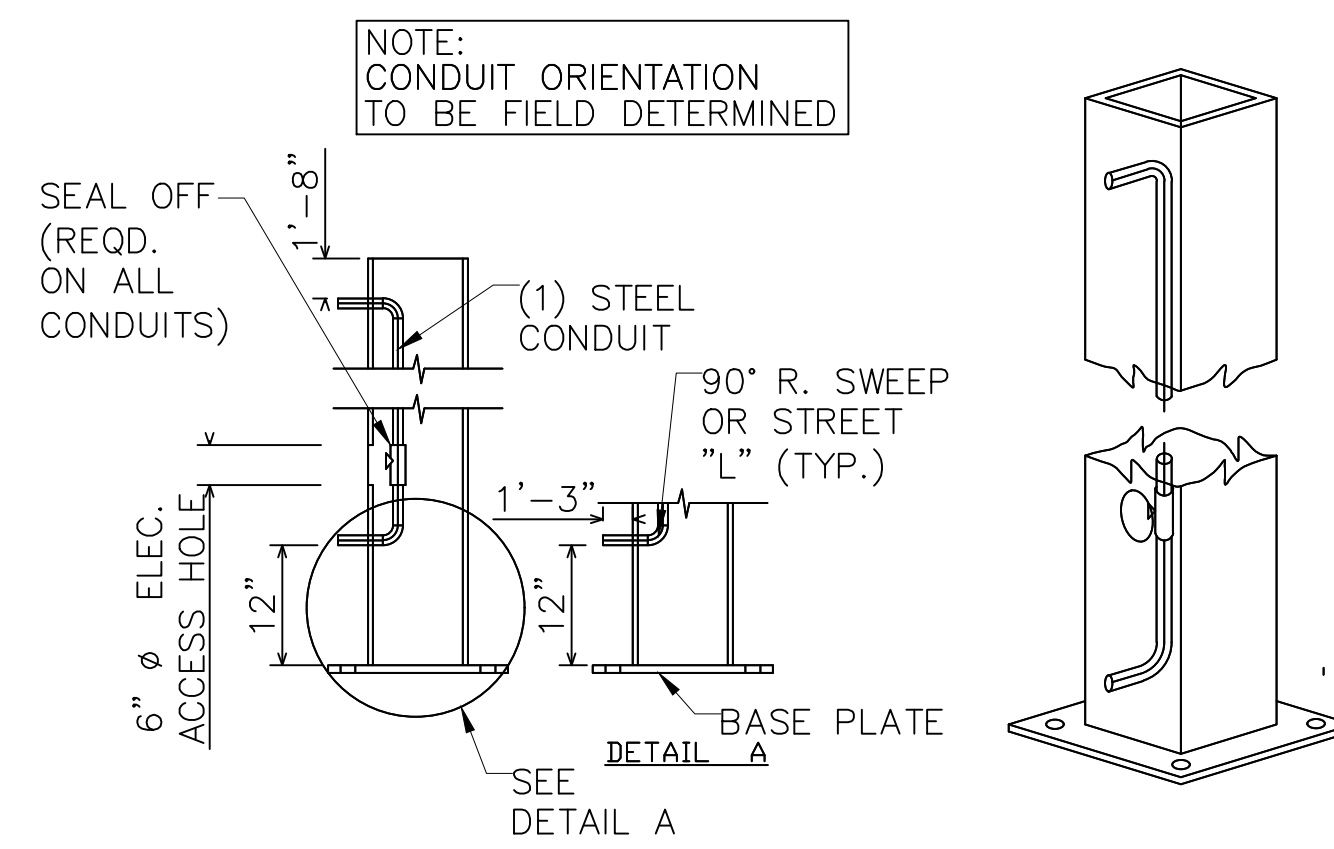
COLUMN-BEAM CONNECTION (A)  
NTS



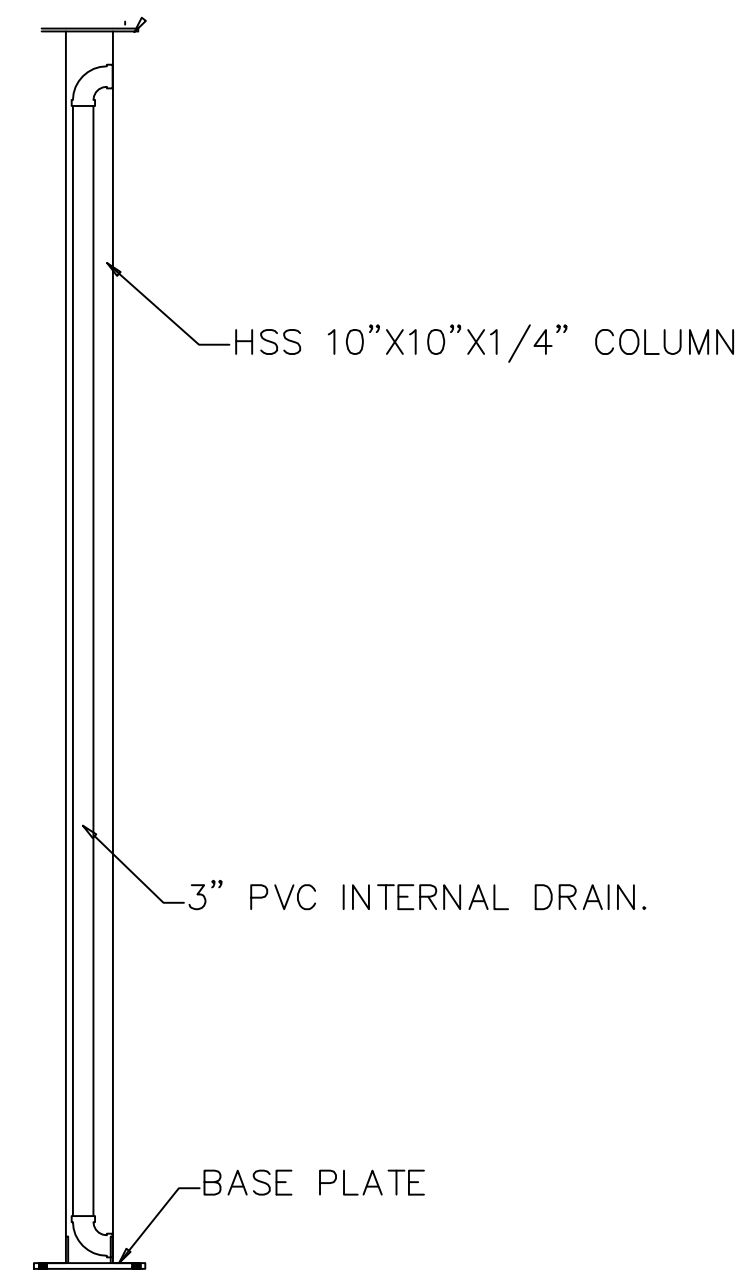
PURLIN WEB SPLICE DETAIL (H)  
NTS



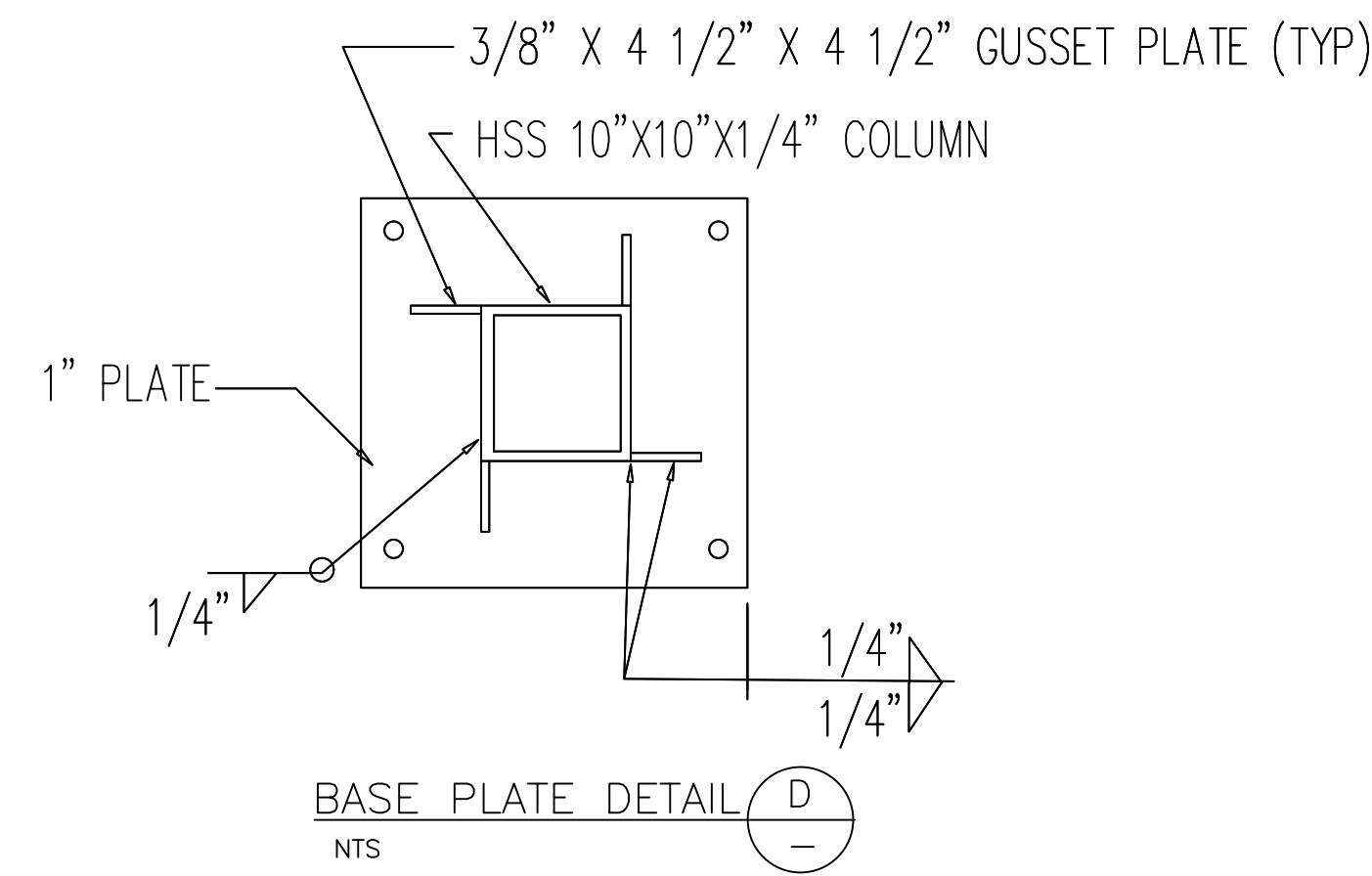
Beam Connections



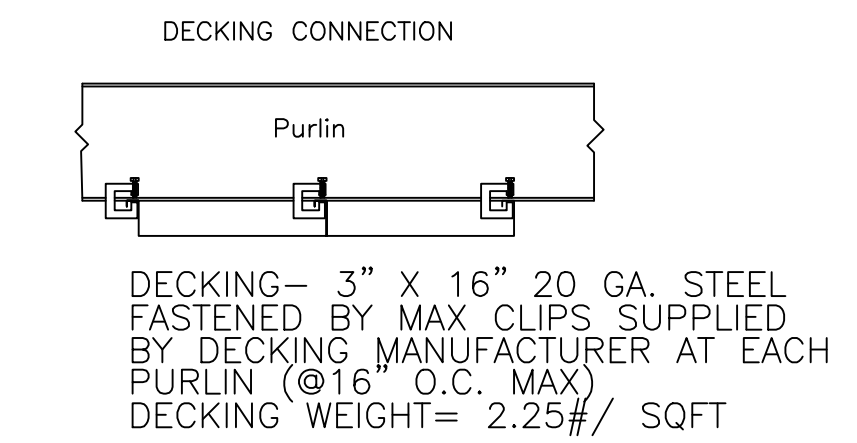
INTERNAL CONDUIT DETAIL (1) CONDUIT



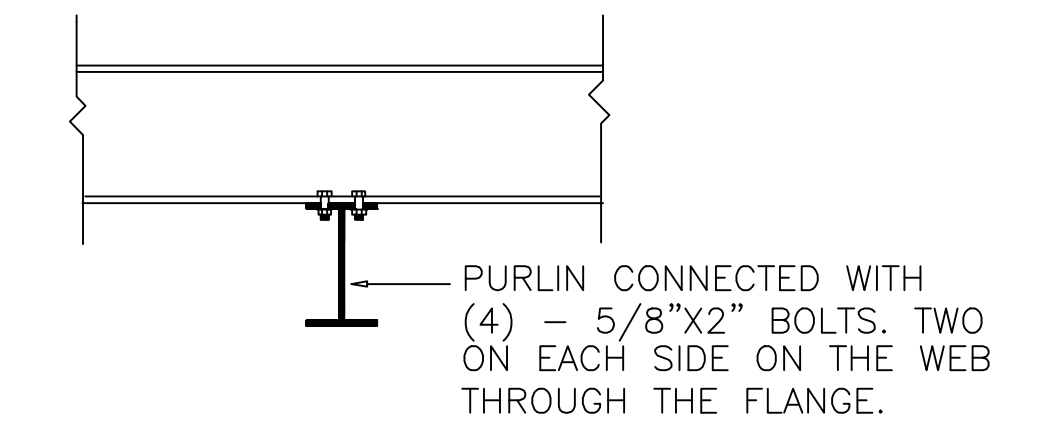
COLUMN DETAIL (B)  
NTS



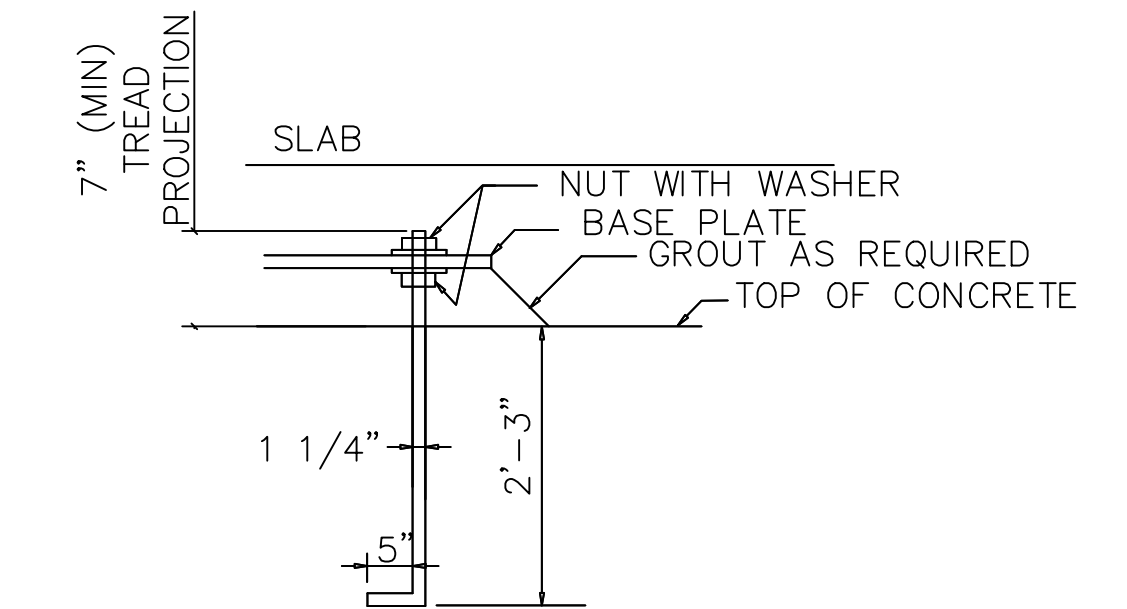
BASE PLATE DETAIL (D)  
NTS



DECKING CONNECTION DETAIL (C)  
NTS

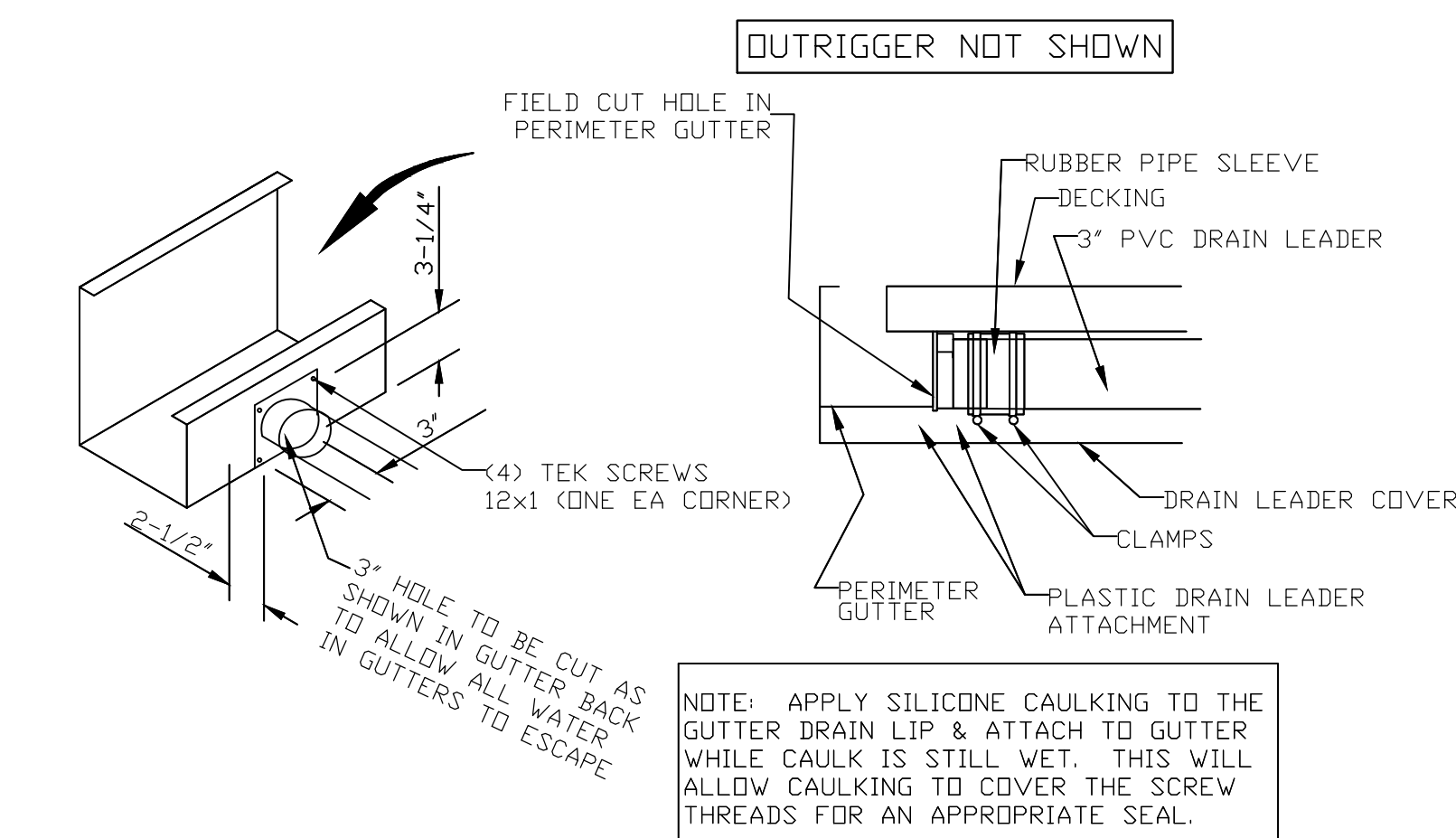


SECTION (F)  
NTS

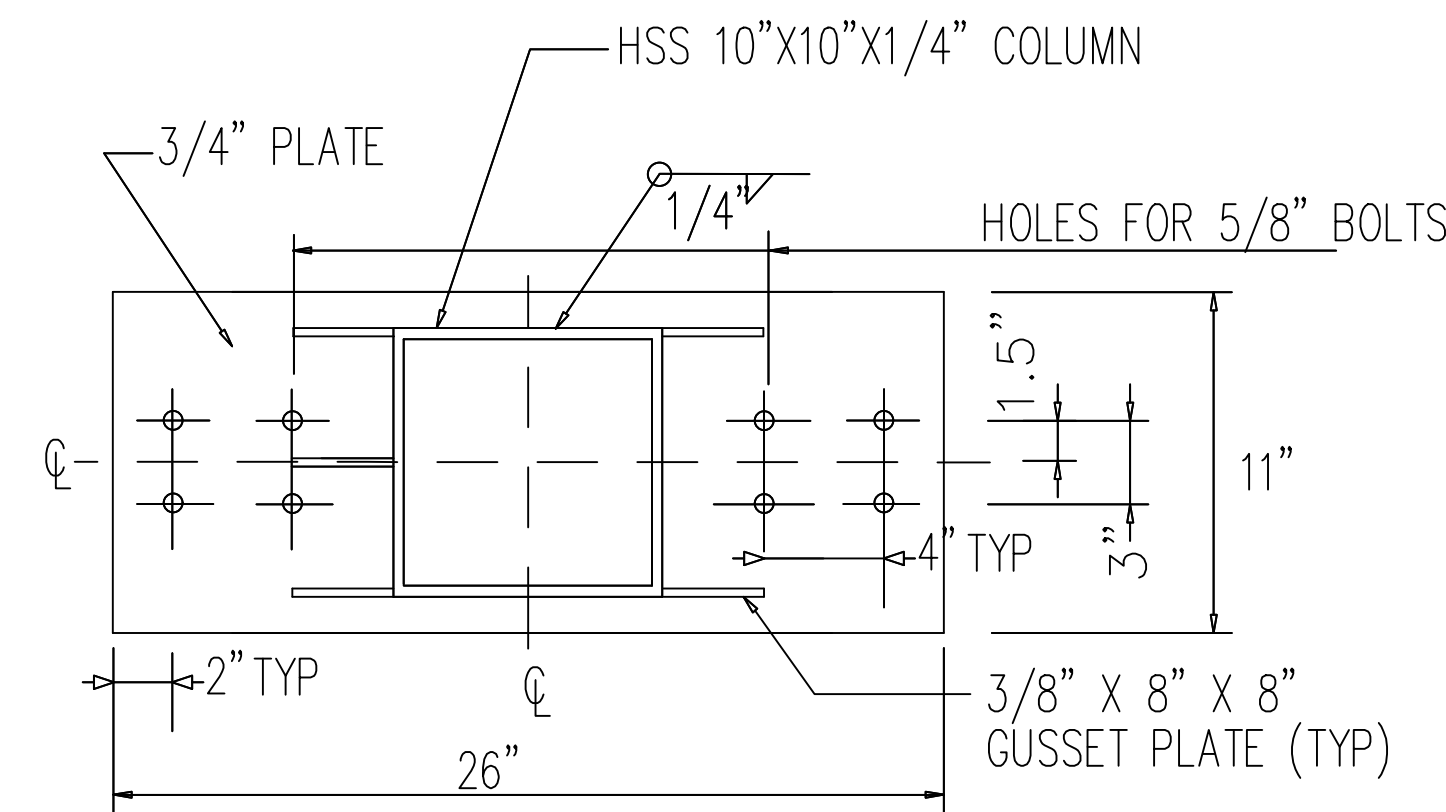


ANCHOR BOLT DETAIL (G)  
NTS

ALL WORK TO BE IN ACCORDANCE WITH THE 2018 NCBC



GUTTER CONNECTION DETAILS



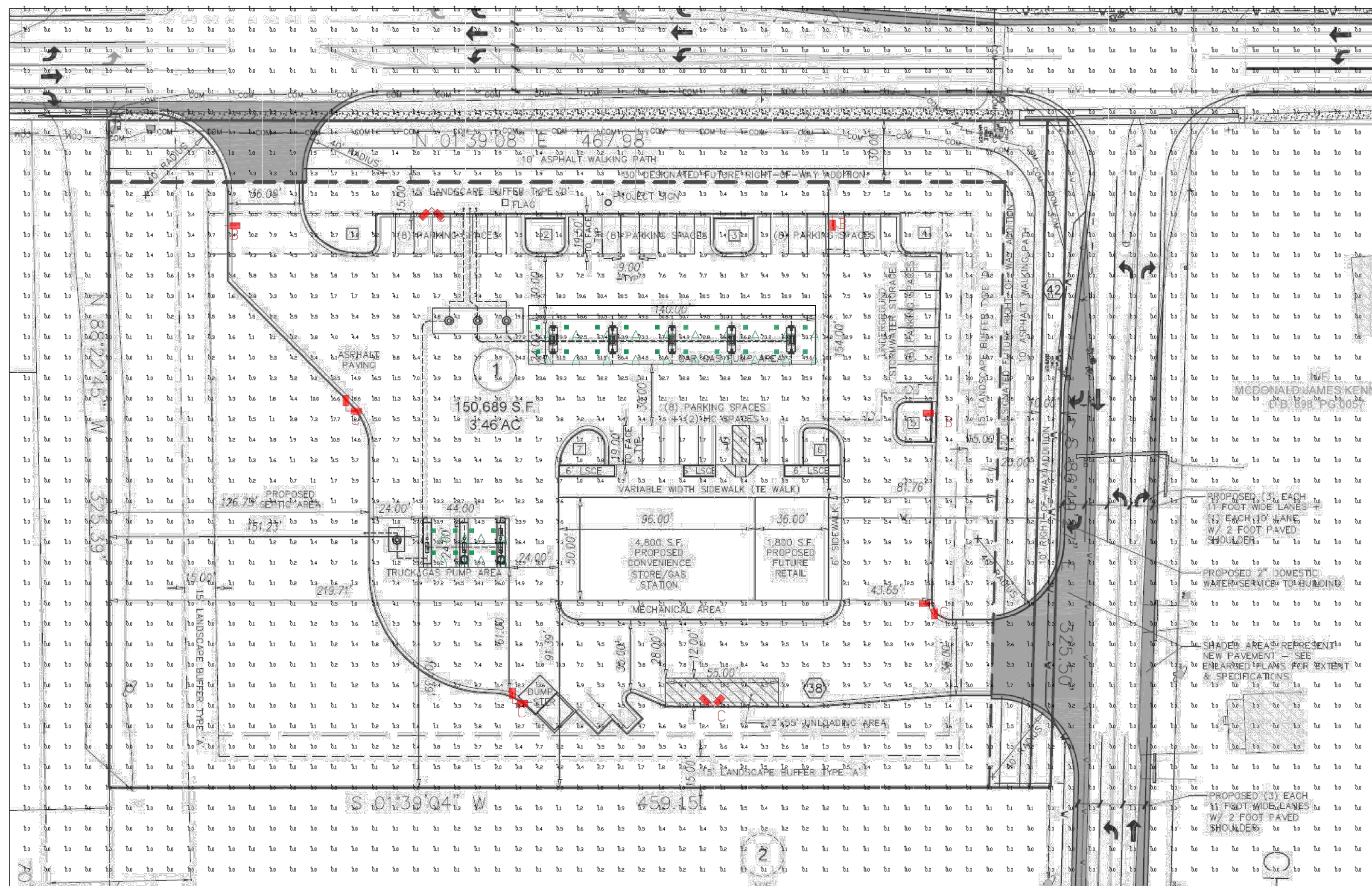
CAP PLATE DETAIL (E)  
NTS

TYPICAL DETAILS



NO.	DATE	BY	REVISION

SHEET TITLE		PROJECT NO.
24' x 140'		AS SHOWN
5 COLUMN CANOPY		DATE 10-07-22
PROJECT		DRAWN BY JK
CHAMPS C-STORE		CHECKED BY JK
CHALYBEATE SPRINGS RD & US 401 INT		DRAWING NO.
FUQUAY VARINA, NC 27526		997
PHILLIPS ALUMINUM CO.		2 of 3
3032 POLKVILLE ROAD		
SHELBY, NORTH CAROLINA 28150		
(704) 487-7969 FAX (704) 487-1832		
CALVIN@PHILLIPSALUMINUM.COM		



SCV



SLM

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLD	LDD	LLF	Arr. Lum. Lumens	Arr. Watts
	28	A	SINGLE	SCV-LED-20L-SC-50 MTD @ 16' GAS, 18' DIESEL	1.000	1.000	1.000	20234	133
	5	C	2 @ 90 DEGREES	SLM-LED-24L-SIL-FT-50-70CRI-D90-20' PDLE+2' BASE	1.000	1.000	1.000	50994	352
	3	B	SINGLE	SLM-LED-24L-SIL-FT-50-70CRI-SINGLE-20' PDLE+2' BASE	1.000	1.000	1.000	25497	176

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC @ GRADE	Illuminance	Fc	3.07	88.3	0.0	N.A.	N.A.
DIESEL CANOPY	Illuminance	Fc	65.92	88.3	47.5	1.39	1.86
GAS CANOPY	Illuminance	Fc	63.23	73.2	49.6	1.27	1.48
INSIDE CURB	Illuminance	Fc	7.75	34.5	0.7	11.07	49.29

PHOTOMETRIC EVALUATION  
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with the Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Drawing scaled or converted from PDF file or scanned / submitted image. Dimensions are approximate.

Total Project Watts: 1  
Total Watts = 6012

LIGHTING PROPOSAL LD-155722-2  
CHAMPS C-STORE  
US 401  
FUQUAY-VARINA, NC  
DATE: 06/13/22 REV: 01-01 SHEET 1 OF 1  
SCALE: 1"=30'

## PHOTOMETRICS PLAN

1" = 40'



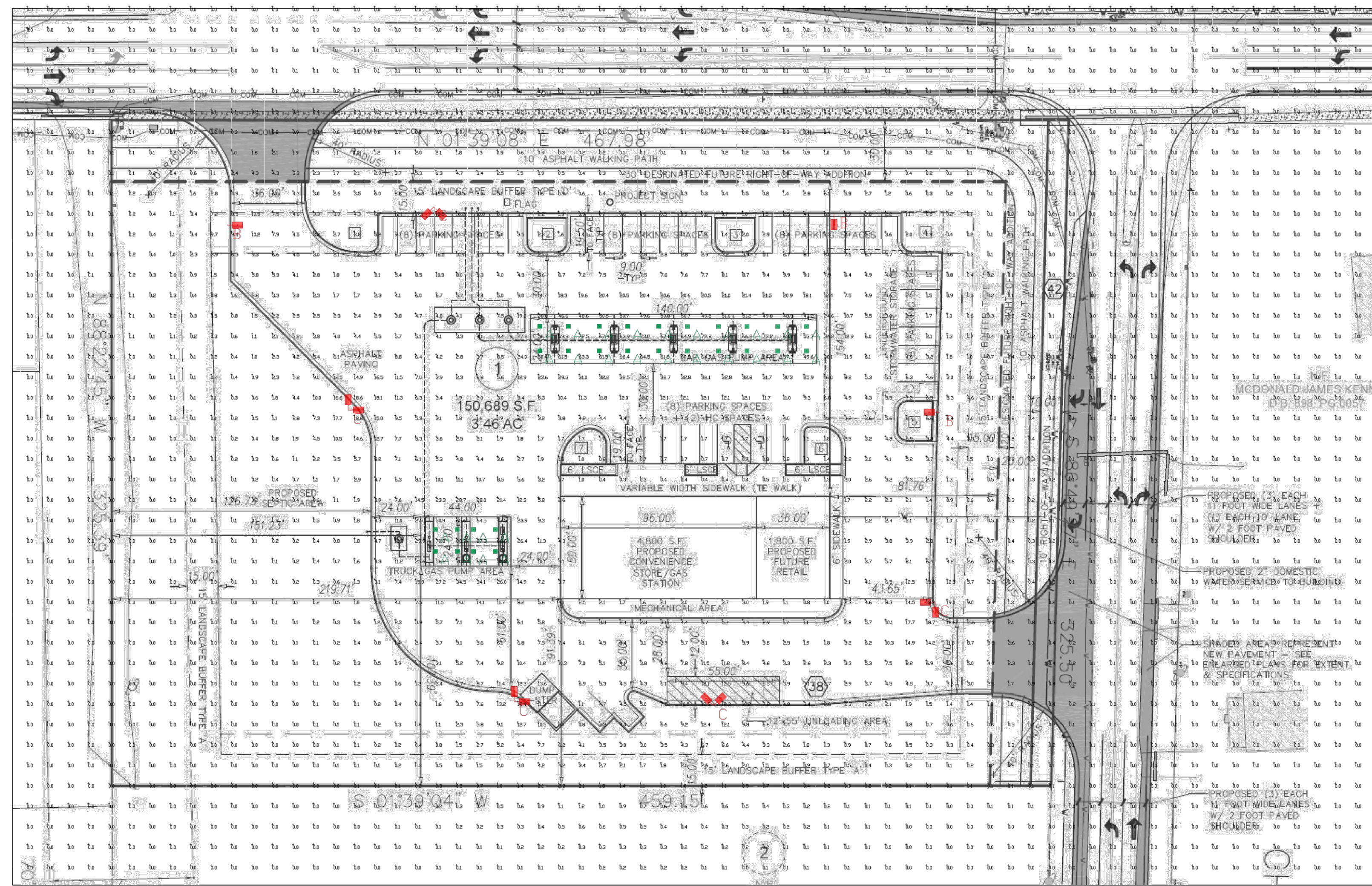
NO.	DATE	BY	REVISION

ALL WORK TO BE IN ACCORDANCE WITH THE 2018 NCBC

SHEET TITLE	24' x 140' 5 COLUMN CANOPY	PROJECT NO.	AS SHOWN
PROJECT	CHAMPS C-STORE CHALYBEATE SPRINGS RD & US 401 INT FUQUAY VARINA, NC 27526	DATE	10-07-22
DRAWN BY	JK	CHECKED BY	JK
DRAWING NO.	997		
	PHILLIPS ALUMINUM CO. 3032 POLKVILLE ROAD SHELBY, NORTH CAROLINA 28150 (704) 487-7969 FAX (704) 487-1832 CALVIN@PHILLIPSALUMINUM.COM		3 of 3







SCV



SLM

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	LLD	LDD	LLF	Arr. Lum. Lumens	Arr. Watts
	28	A	SINGLE	SCV-LED-20L-SC-50 MTD @ 16' GAS, 18' DIESEL	1.000	1.000	1.000	20234	133
	5	C	2 @ 90 DEGREES	SLM-LED-24L-SIL-FT-50-70CRI-D90-20' PDLE+2' BASE	1.000	1.000	1.000	50994	352
	3	B	SINGLE	SLM-LED-24L-SIL-FT-50-70CRI-SINGLE-20' PDLE+2' BASE	1.000	1.000	1.000	25497	176

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC @ GRADE	Illuminance	Fc	3.07	88.3	0.0	N.A.	N.A.
DIESEL CANOPY	Illuminance	Fc	65.92	88.3	47.5	1.39	1.86
GAS CANOPY	Illuminance	Fc	63.23	73.2	49.6	1.27	1.48
INSIDE CURB	Illuminance	Fc	7.75	34.5	0.7	11.07	49.29

**PHOTOMETRIC EVALUATION  
NOT FOR CONSTRUCTION**

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with the Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Drawing scaled or converted from PDF file or scanned / submitted image. Dimensions are approximate.

Total Project Watts\_1  
Total Watts = 6012



PHILLIPS ALUMINUM CO. logo

LIGHTING PROPOSAL LD-155722-2

CHAMPS C-STORE  
US 401  
FUQUAY-VARINA, NC

DATE: 06/14/2022 REV: 05-01 SHEET 1 OF 1

SCALE: 1"=30'

**PHOTOMETRICS PLAN**

1" = 40'

ALL WORK TO BE IN ACCORDANCE WITH THE 2018 NCBC



NO.	DATE	BY	REVISION

SHEET TITLE: 24'x 44'  
3 COLUMN CANOPY

SCALE: AS SHOWN  
DATE: 10-07-22

PROJECT: CHAMPS C-STORE  
CHALYBEATE SPRINGS RD & US 401 INT  
FUQUAY VARINA, NC 27526

DRAWN BY: JK  
CHECKED BY: JK

DRAWING NO.: 998

PHILLIPS ALUMINUM CO.  
3032 POLKVILLE ROAD  
SHELBY, NORTH CAROLINA 28150  
(704) 487-7969 FAX (704) 487-1832  
CALVIN@PHILLIPSALUMINUM.COM

3 of 3





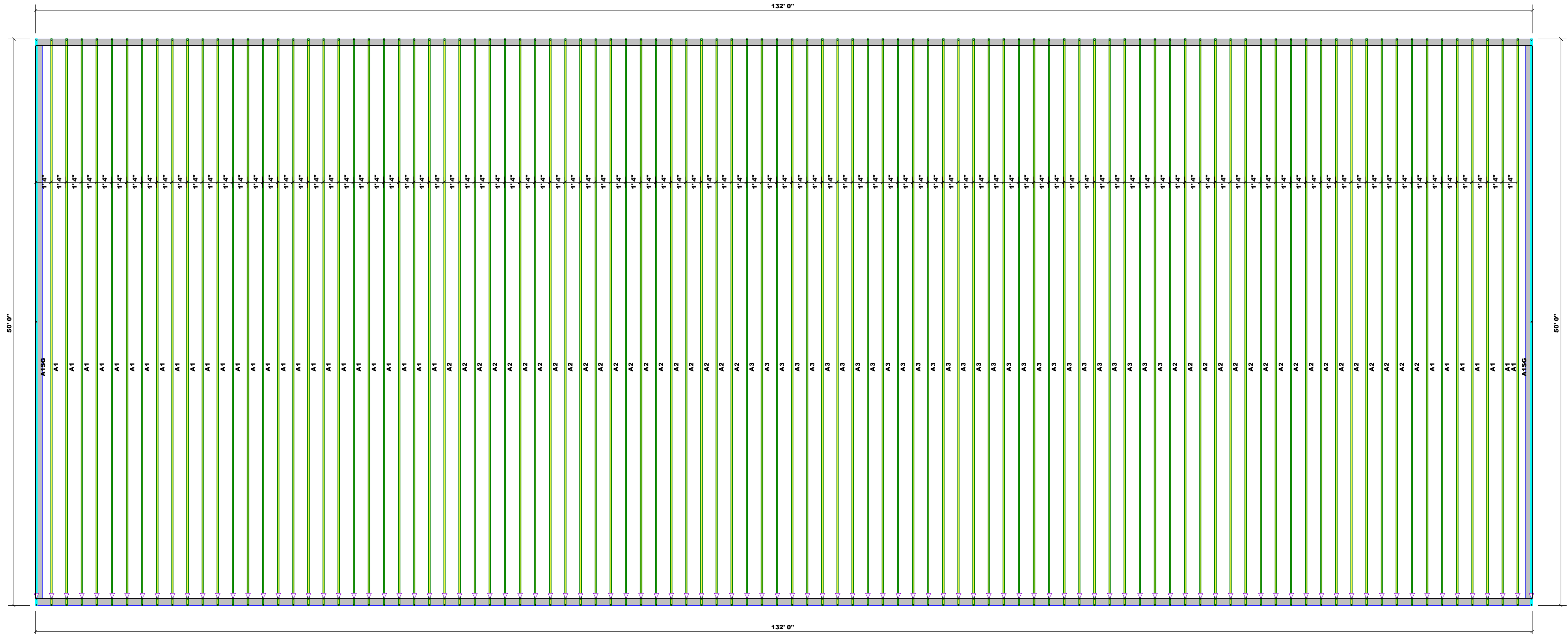
**ROOF & FLOOR TRUSSES & BEAMS**

Reilly Road Industrial Park  
Fayetteville, N.C. 28309  
Phone: (910) 864-8787  
Fax: (910) 864-4444

**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.**  
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. The individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for ensuring and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including beams, columns, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult ICC-ES and ECR-ES provided with the truss delivery package or online @ secondary.com

Roaming reactions less than or equal to 2000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables ( derived from the prescriptive Code requirements ) to determine the minimum foundation size and number of wood studs required to support reactions greater than 2000# but not greater than 5000#. A registered design professional shall be required to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 5000#.

Signature: Jonathan Landry  
**Jonathan Landry**



All Walls Shown Are Considered Load Bearing

Roof Area = 6441.9 sq.ft.  
Ridge Line = 0 ft.  
Hip Line = 0 ft.  
Horiz. OH = 251.5 ft.  
Raked OH = 97.6 ft.  
Decking = 221 sheets

**1 Truss Placement Plan**  
Scale: 3/16"=1'

**Dimension Notes**  
1. All exterior wall to wall dimensions are to face of stud unless noted otherwise  
2. All interior wall dimensions are to face of stud unless noted otherwise  
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

▲= Denotes Left End of Truss  
(Reference Engineered Truss Drawing)

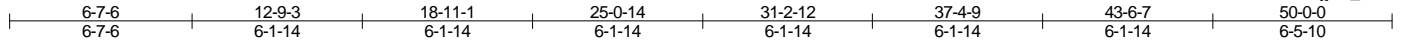
CITY / CO.	Fuquay-Varina / County
ADDRESS	U.S. Highway 401 North
MODEL	Roof
DATE REV.	12/29/23
DRAWN BY	Jonathan Landry
SALES REP.	Lenny Norris

Regency Homes	Champs Convenience Store
PLAN	Custom
SEAL DATE	12/14/22
QUOTE #	Quote #
JOB #	J1223-7209

LOAD CHART FOR JACK STUDS					
BASED ON TABLES ENR203 & 204					
NUMBER OF JACK STUDS REQUIRED @ 4' END OF HEADERS/BEAMS		NUMBER OF JACK STUDS REQUIRED @ 8' END OF HEADERS/BEAMS			
TRUSS HEIGHT (ft)	TRUSS WEIGHT (lb)	TRUSS HEIGHT (ft)	TRUSS WEIGHT (lb)		
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

Job J1223-7209	Truss A1	Truss Type HALF HIP	Qty 33	Ply 1	Champs Convenience Store
Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry					Job Reference (optional)

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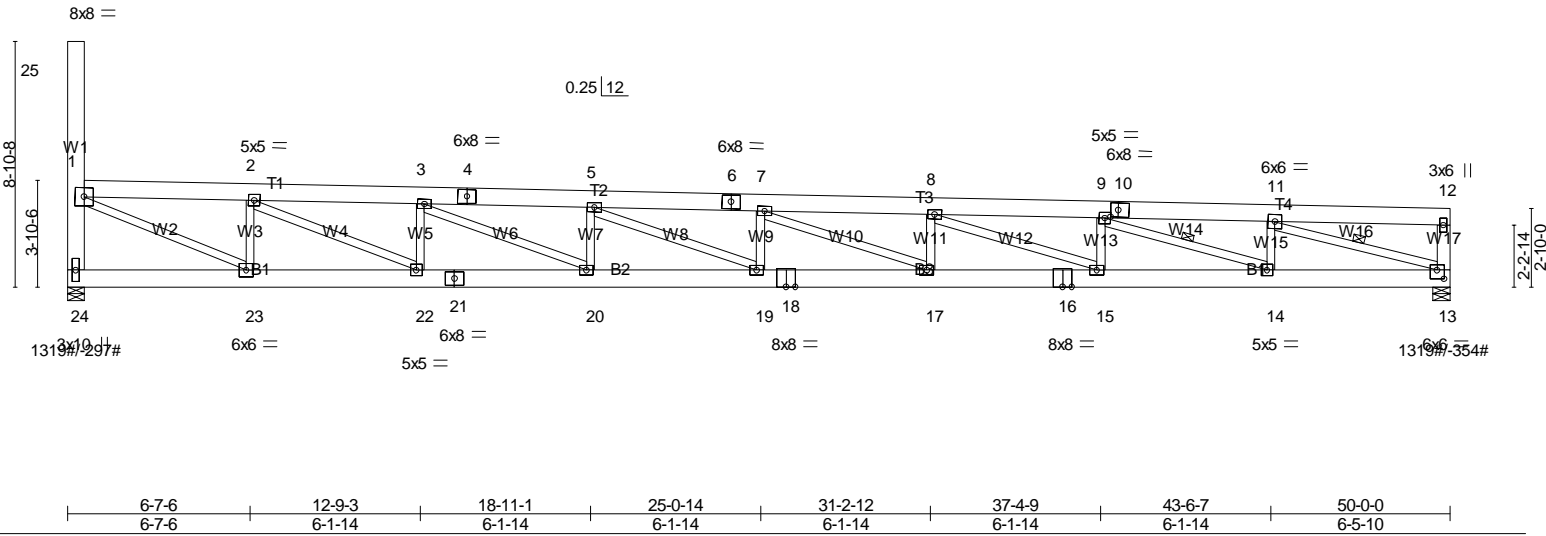


Plate Offsets (X,Y)-- [10:0-3-4,0-3-0], [13:0-3-0,0-3-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.40 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.81 17-19	>737	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.11 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.47 19	>999	240		
								Weight: 432 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x8 SP 2400F 2.0E  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x8 SP No.1, W17: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 7-6-7 oc bracing.  
 WEBS 1 Row at midpt 11-13, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)  
 Max Horz 24=-380(LC 8)  
 Max Uplift 24=-297(LC 13), 13=-354(LC 9)  
 Max Grav 24=1319(LC 1), 13=1319(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-24=-1246/593, 1-26=-2311/1378, 2-26=-2315/1378, 2-3=-4081/1975, 3-4=-5283/2370, 4-5=-5286/2369, 5-6=-5878/2529, 6-7=-5880/2528, 7-8=-5770/2420, 8-9=-4858/2006, 9-10=-2975/1225, 10-11=-2979/1224  
 BOT CHORD 23-24=-560/646, 22-23=-1380/2313, 21-22=-1982/4078, 20-21=-1982/4078, 19-20=-2381/5283, 18-19=-2545/5877, 17-18=-2545/5877, 16-17=-2441/5767, 15-16=-2441/5767, 14-15=-2031/4855, 13-14=-1255/2977  
 WEBS 1-23=-959/2478, 2-23=-1083/509, 2-22=-824/1981, 5-20=-509/303, 5-19=-332/656, 8-15=-991/446, 11-14=-232/789, 11-13=-3000/1242, 3-22=-813/426, 3-20=-578/1340, 9-15=-132/477, 9-14=-2026/838

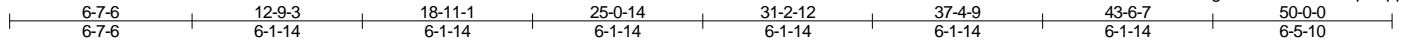
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 5-3-10, Interior(1) 5-3-10 to 49-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 4x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=297, 13=354.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J1223-7209	Truss A1SG	Truss Type GABLE	Qty 2	Ply 1	Champs Convenience Store
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry

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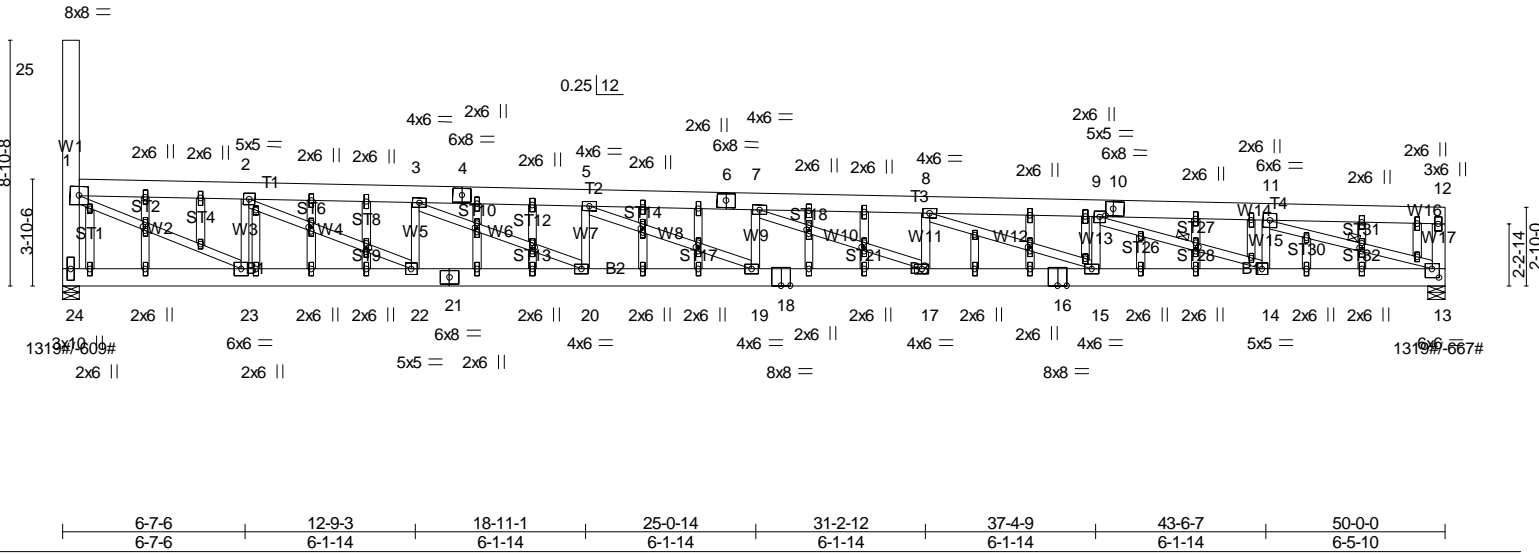


Plate Offsets (X, Y)-- [10:0-3-4,0-3-0], [13:0-3-0,0-3-12], [26:0-1-11,0-1-0], [29:0-1-11,0-1-0], [32:0-1-12,0-1-0], [35:0-1-12,0-1-0], [38:0-1-12,0-1-0], [41:0-1-12,0-1-0], [48:0-1-13,0-1-0], [55:0-1-11,0-1-0], [58:0-1-11,0-1-0], [63:0-1-11,0-1-0], [70:0-1-10,0-1-0], [77:0-1-10,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	1-4-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) -0.40 17-19 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.81 17-19 >737 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.11 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.67 17-19 >891 240		
				Weight: 488 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 11-13, 9-14
OTHERS W1: 2x8 SP No.1, W17: 2x6 SP No.1	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)  
 Max Horz 24=-408(LC 8)  
 Max Uplift 24=609(LC 13), 13=667(LC 9)  
 Max Grav 24=1319(LC 1), 13=1319(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-24=-1246/722, 1-2=-2315/1664, 2-3=-4081/2476, 3-4=-5283/3018, 4-5=-5286/3017,  
 5-6=-5878/3247, 6-7=-5880/3246, 7-8=-5770/3120, 8-9=-4858/2587, 9-10=-2975/1563,  
 10-11=-2979/1562  
 BOT CHORD 23-24=-568/643, 22-23=-1660/2313, 21-22=-2479/4078, 20-21=-2479/4078, 19-20=-3025/5283,  
 18-19=-3260/5877, 17-18=-3260/5877, 16-17=-3138/5767, 15-16=-3138/5767, 14-15=-2611/4855,  
 13-14=-1592/2977  
 WEBS 1-23=-1245/2478, 2-23=-1083/654, 2-22=-1078/1981, 5-20=-509/378, 5-19=-417/656,  
 8-15=-991/573, 11-14=-324/789, 11-13=-3000/1586, 3-22=-813/541, 3-20=-748/1340,  
 9-15=-182/477, 9-14=-2026/1098

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=609, 13=667.
  - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Champs Convenience Store
J1223-7209	A1SG	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry

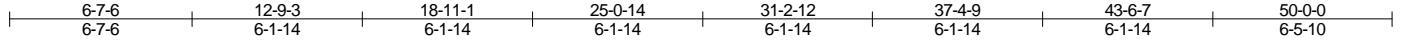
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**LOAD CASE(S)** Standard

Job J1223-7209	Truss A2	Truss Type HALF HIP	Qty 37	Ply 1	Champs Convenience Store
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Comtech, Inc., Fayetteville, NC 28309, Jonathan Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 7 14:14:07 2024 Page 1  
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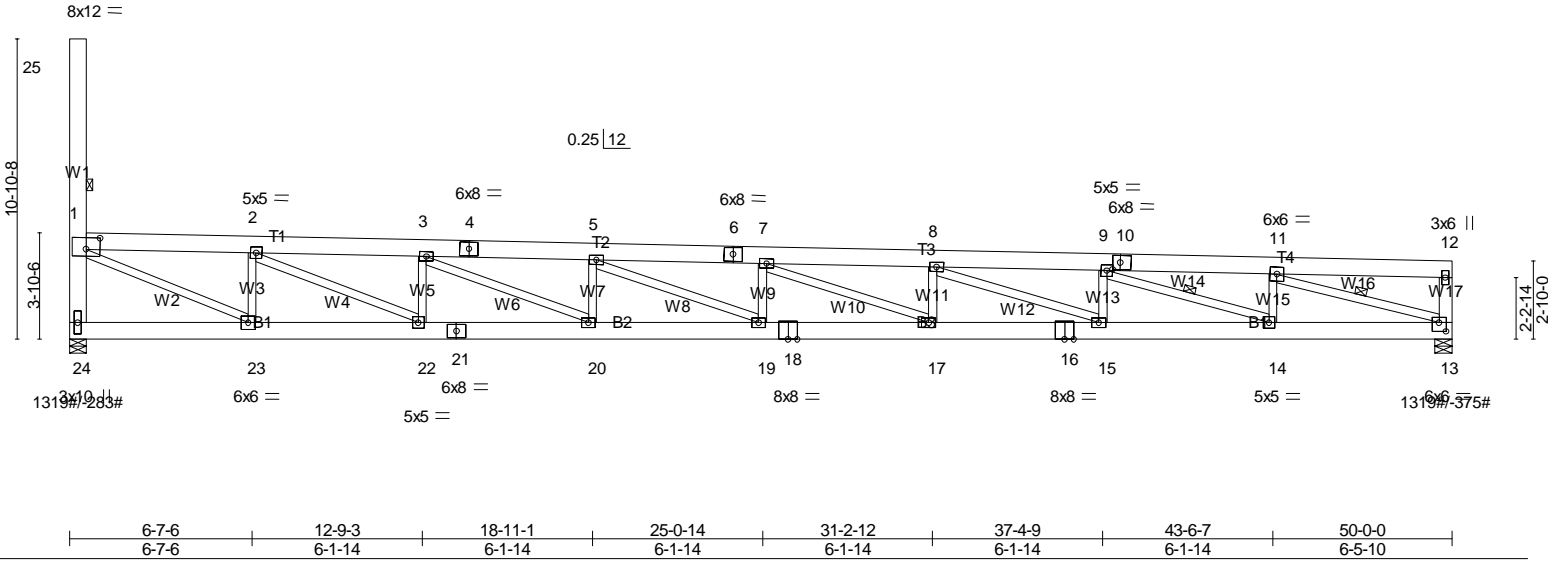


Plate Offsets (X,Y)-- [1:0-6-0,0-5-0], [10:0-3-4,0-3-0], [13:0-3-0,0-3-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.40 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.81 17-19	>737	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.11 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.50 19	>999	240		
								Weight: 438 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x8 SP 2400F 2.0E  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x8 SP No.1, W17: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Except:  
 5-11-0 oc bracing: 1-25  
 6-0-0 oc bracing: 1-24  
 BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.  
 WEBS 1 Row at midpt 1-25, 11-13, 9-14

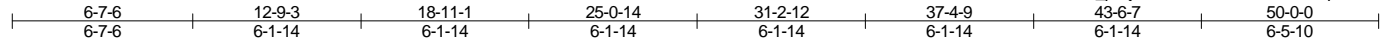
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)  
 Max Horz 24=-490(LC 8)  
 Max Uplift 24=-283(LC 13), 13=-375(LC 9)  
 Max Grav 24=1319(LC 1), 13=1319(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-24=-1246/634, 1-26=-2411/1671, 2-26=-2414/1671, 2-3=-4081/2227, 3-4=-5283/2591,  
 4-5=-5286/2591, 5-6=-5878/2714, 6-7=-5880/2713, 7-8=-5770/2566, 8-9=-4858/2108,  
 9-10=-2975/1278, 10-11=-2979/1278  
 BOT CHORD 23-24=-839/980, 22-23=-1673/2426, 21-22=-2234/4078, 20-21=-2234/4078, 19-20=-2603/5283,  
 18-19=-2730/5877, 17-18=-2730/5877, 16-17=-2587/5767, 15-16=-2587/5767, 14-15=-2133/4855,  
 13-14=-1308/2977  
 WEBS 1-23=-940/2478, 2-23=-1083/534, 2-22=-878/1981, 5-20=-509/319, 5-19=-380/656,  
 8-15=-991/493, 11-14=-251/789, 11-13=-3000/1297, 3-22=-813/456, 3-20=-620/1340,  
 9-15=-150/477, 9-14=-2026/890

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 5-3-10, Interior(1) 5-3-10 to 49-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 4x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=283, 13=375.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.

**LOAD CASE(S)** Standard



8x12 II

Scale = 1:84.3

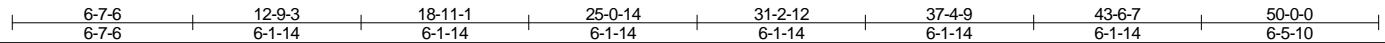
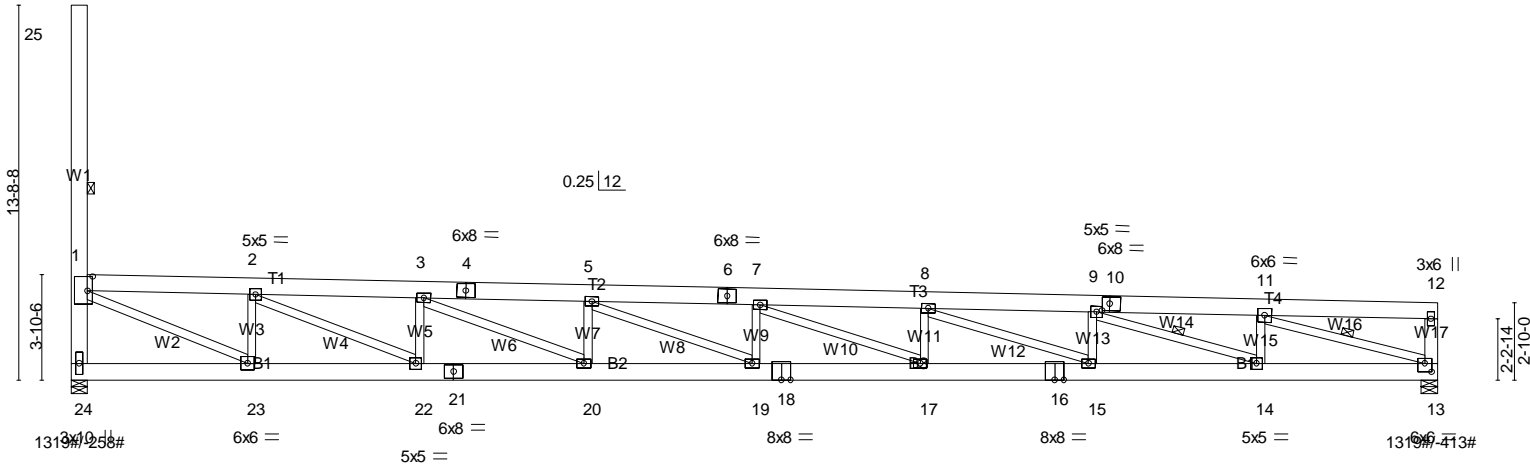


Plate Offsets (X,Y)-- [1:0-6-4,0-2-4], [10:0-3-4,0-3-0], [13:0-3-0,0-3-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	-0.40 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.81 17-19	>737	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.11 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.54 19	>999	240		
								Weight: 447 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x8 SP 2400F 2.0E  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x8 SP 2400F 2.0E, W17: 2x6 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Except:  
 4-8-0 oc bracing: 1-25  
 6-0-0 oc bracing: 1-24  
 Rigid ceiling directly applied or 6-10-7 oc bracing.  
 BOT CHORD 1 Row at midpt  
 WEBS 1-25, 11-13, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (size) 24=0-7-4 (min. 0-1-8), 13=0-7-4 (min. 0-1-8)  
 Max Horz 24=-648(LC 8)  
 Max Uplift 24=-258(LC 13), 13=-413(LC 9)  
 Max Grav 24=1319(LC 1), 13=1319(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-24=-1244/705, 1-26=-2803/2196, 2-26=-2807/2195, 2-3=-4082/2684, 3-4=-5283/2991,  
 4-5=-5286/2991, 5-6=-5878/3048, 6-7=-5880/3047, 7-8=-5770/2829, 8-9=-4858/2292,  
 9-10=-2975/1374, 10-11=-2979/1374  
 BOT CHORD 23-24=-1363/1606, 22-23=-2196/2818, 21-22=-2691/4079, 20-21=-2691/4079, 19-20=-3003/5283,  
 18-19=-3064/5877, 17-18=-3064/5877, 16-17=-2849/5767, 15-16=-2849/5767,  
 14-15=-2317/4855, 13-14=-1405/2977  
 WEBS 1-23=-937/2472, 2-23=-1081/562, 2-22=-968/1982, 5-20=-509/350, 5-19=-467/656,  
 8-15=-991/578, 11-14=-285/789, 11-13=-3000/1395, 3-22=-813/508, 3-20=-696/1340,  
 9-15=-184/477, 9-14=-2026/985

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-10 to 5-3-10, Interior(1) 5-3-10 to 49-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are 4x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 24=258, 13=413.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.

**LOAD CASE(S)** Standard