

Codes

International Building Code 2015
Loading: ASCE 7-16
Hot Rolled Steel: AISC 15th(360-16):ASD
Concrete: ACI 318-19
Steel connection: AISC 360 ASD

Materials

Steel Tube SQ 2-1/2" 14GA A500
Steel Yield Strength: 50 ksi
Concrete Compressive Strength: 3000 psi
Weld Strength: 70ksi(1/8" TYP.)
Anchor Bolt: 1/2"ØX6" GR36 ANCHOR

Loading

Risk Category: II Snow Load: 35 psf
Roof Live Load: 20 psf SDC: B
Wind Speed: 140 mph Exp. : C

I.1. Construction Means and Methods:

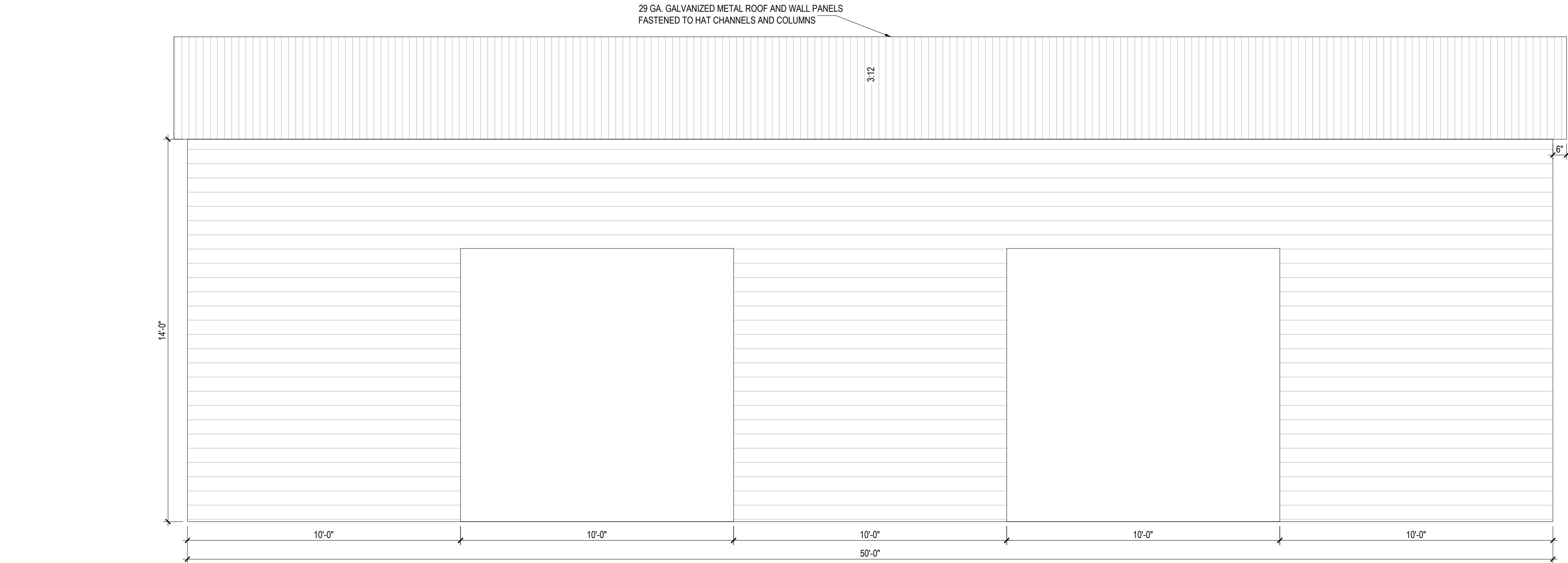
- A. Contractor Agrees To Assume Sole Responsibility For Job Site Conditions During The Course Of The Work, Including Safety Of All Persons And Property That This Requirement Shall Apply Continuously And Not Be Limited To Normal Working Hours And That Contractor Shall Defend, Indemnify, And Hold Owner And Structural Engineer Harmless From Any And All Liability, Real Or Alleged, In Connection With The Performance Of The Work On This Project.
- B. The Contract Documents Represent The Finished Structure. They Do Not Include The Method Of Construction. Contractor Shall Provide All Measures Necessary To Protect The Structure During Construction. Such Measures Shall Include, But Not Limited To Bracing, Shoring For Loads Due To Construction Equipment, Temporary Structures, And Partially Completed Work. Observation Visits To The Site By Structural Engineer Shall Not Include Inspection Of The Above Items.
- C. Al- Iman Group Shall Not Have Control Over, Or Charge Of, And Shall Not Be Responsible In Any Way For Construction Means, Methods, Techniques, Sequences Or Procedures, Or For Safety Or Safety Precautions And Programs In Connection With Any Construction Activities, Since These Are Contractor' S Responsibility Under The Contract.
- D. Al- Iman Group Shall Not Be Responsible. For Contractor's Schedule Or Failures To Carry Out Any Construction Activities In Accordance With The Contract Documents. Al-Iman Group Shall Not Have Control Over Or Charge Of Actions Of Contractor, Subcontractor, Or Any Of Their Agents, Or Employees, Or Any Other Persons Performing Portions Of Any Construction Activities.
- E. The Structure Is Stable Only In Its Completed Form. Temporary Supports Required For Stability Of The Structure During All Intermediate Stages Of Construction Shall Be Designed And Provided By Contractor.

I.1. Quality Requirements:

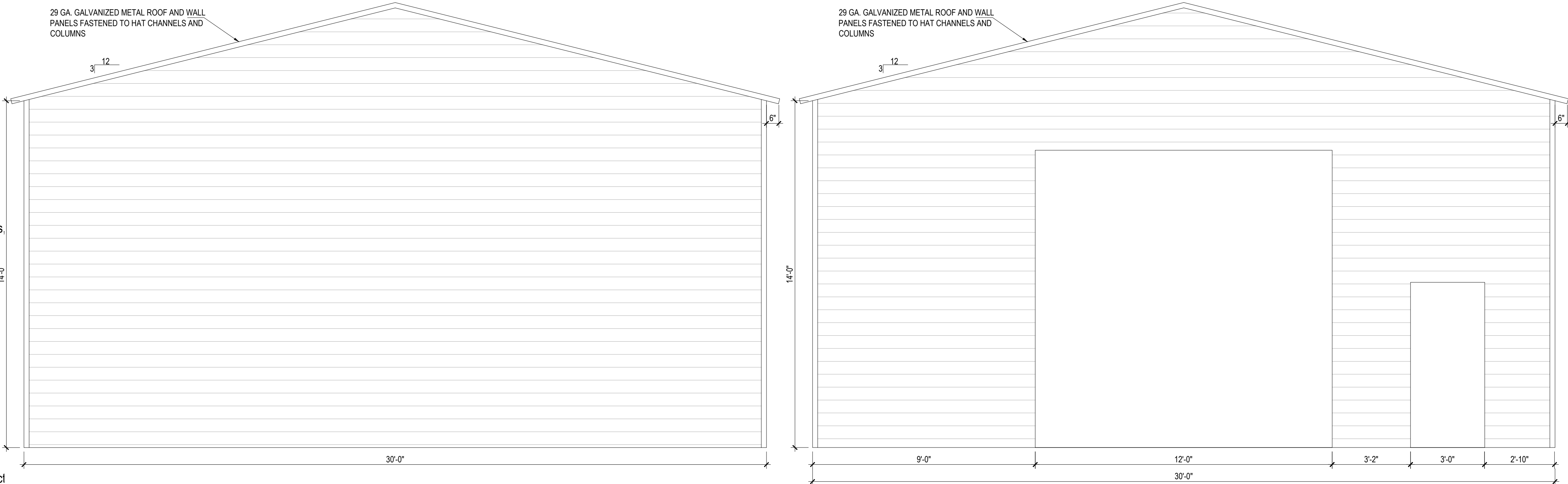
- A. Submittals Prepared By Subcontractors Shall Be Reviewed By Contractor Prior To Submitting To Architect Or Engineer.
- B. Reproduction Of The Contract Documents For Shop Drawings Is Not Permitted. Electronic Drawing Files Will Not Be Provided To Contractor.
- C. Contractor Shall Verify The Structurally Supported Equipment Weights, Opening Sizes, And Locations Indicated On The Structural Drawings With Documents From Other Disciplines And Notify Architect Of Any Discrepancies.
- D. Contractor Shall Submit Shop Drawings Showing Size And Method Of Anchorage, Weight, Openings, And Location Of Equipment Not Indicated On The Structural Drawing Prior To Ordering For Review By Structural Engineer To Determine Adequacy Of The Structure.
- E. All Submittals Reviewed By Structural Engineer Are Reviewed For General Conformance With Design Concept Only And Does Not Relieve The Fabricator / Vendor Of Responsibility For Conformance With Design Drawings, Site Conditions, Field Verifications And Specifications, All Of Which Have Priority Over Submittals.
- F. Submittals Shall Be Reviewed Within 10 Working Days After Being Received By Structural Engineer.

I.1. Construction Means and Methods:

- A. . Reference To Standard Specification Or Codes Of Any Technical Society, Organization, Or Association Or To Codes Of Local Or State Authorities, Shall Mean The Standards In Effect As Of Date Of The Contract Documents, Unless Otherwise Noted.
- B. Contract Documents Shall Govern In The Event Of A Conflict With Standard Specifications Or Codes Of Any Technical Society, Organization, Or Association.
- C. Structural Documents Are Being Released Prior To Documents Of Other Disciplines Contractor Shall Coordinate Structural Documents With Other Portion Of The Contract Documents As They Are Released, Report Any Discrepancy Or Omission To Architect And Engineer Throughout The Project.
- D. No Provision Of Any Referenced Standard Specification Or Code, Whether Or Not Specifically Incorporated By Reference In The Contract Documents, Shall Be Effective To Change The Duties And Responsibilities Of Owner, Architect, Structural Engineer, Contractor, Or Any Of Their Consultants, Agents, Or Employees From Those Set Forth In The Contract Documents, Nor Shall It Be Effective To Assign To Structural Engineer, Or Any Of Structural Engineer's Consultants, Agents, Or Employees Any Duty Or Authority To Supervise Or Direct The Furnishing Or Performance Of The Work Or Any Duty Or Authority To Undertake Responsibilities Contrary To The Provisions Of The Contract Document.
- E. All Omissions And Conflicts Within The Contract Documents Shall Be Brought To The Attention Of Architect Prior To Proceeding With The Work And Fabrication.
- F. Contractor Shall Verify Dimension And Conditions At The Job Site, Any Discrepancies Between The Conditions Found And Those Indicated In The Contract Document Shall Be Brought To The Attention Of Architect Prior To Proceeding With The Work And Fabrication.
- G. See Documents By Other Disciplines For Floor, Wall And Roof Openings, Trenches, Pits, Pipe Sleeves, Equipment Pads, Metal Pan Stairs, Miscellaneous Iron Etc.
- H. No Pipes, Ducts, Chases, Etc, Shall Be Placed In Structural Beam And Column Members Nor Shall Any Structural Member Be Cut For Pipes, Ducts, Etc. UNO, Notify Structural Engineer When Documents, By Other Disciplines Show Openings, Pockets, Etc, Not Indicated In The Structural Drawings, But Are Located In Structural Members. Contractor Shall Obtain Prior Approval From Structural Engineer For Installation Of Such Pipes, Ducts, Chases, Etc.
- Q. I. Details Labeled "Typical" On The Structural Drawings Apply To All Situations Occurring On Project That Are The Same Or Similar To Those Locations Specifically Indicated. Where A Detail Is Not Indicated, The Detail Shall Be The Same As For Other Similar Conditions.
- J. The Contractor is responsible for confirming and correlating all quantities, dimensions, tolerances, clearances, fabrication processes, techniques and sequences of construction - including means and methods, excavation, shoring, scaffolds, temporary bracing, temporary clips and lugs, erection, temporary structural members required for safe erection procedures, form work, etc - compatibility of materials and methods, coordination of their work with other trades and subcontractors, performance of work in a safe and satisfactory manner and for full compliance with the Construction Drawings, Construction Documents, Specifications, Project Manual, all Federal, State, Municipal and Local requirements including OSHA.
- K. General Contractor and his/her Sub-Contractors are responsible for the coordination of all work from all trades, consultants, designers, etc a

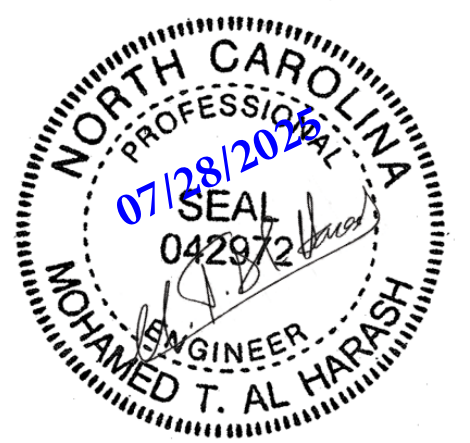


1
S1 RIGHT/LEFT SIDE VIEW[SHEETING]
SCALE: 3/8"=1'



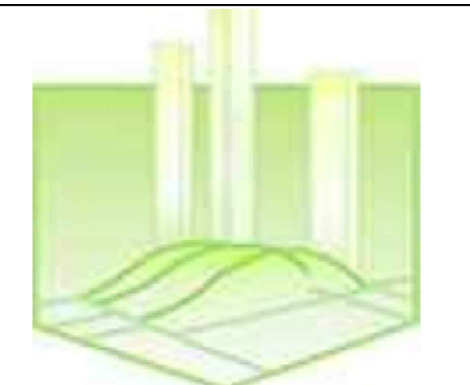
2
S1 BACK SIDE VIEW[SHEETING]
SCALE: 3/8"=1'

3
S1 FRONT SIDE VIEW[SHEETING]
SCALE: 3/8"=1'



2318 Woodson Road, # 140007
Saint Louis, MO 63114
www.al-imangroup.com

MOHAMED THABET AL HARASH
Structural Engineer



AL-IMAN Group, LLC

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Client: Andrew Jesus Guillermo
Address:176 Old Mill Road Fuquay
Varina, NC 27526
Job Number : 25.02.04



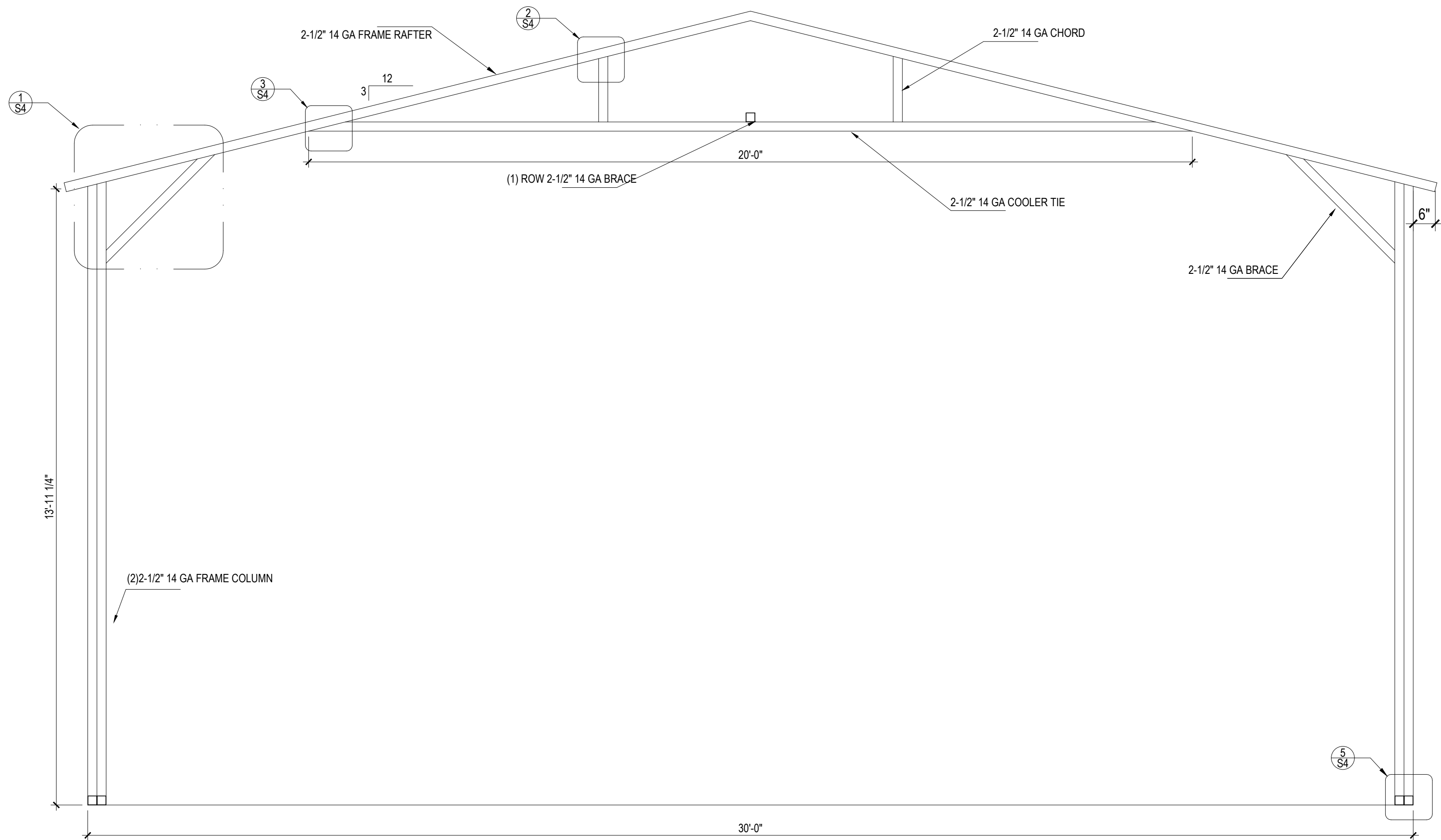
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| ISSUE HISTORY | | |
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ELEVATIONS/SIDES
VIEWS [SHEETING]

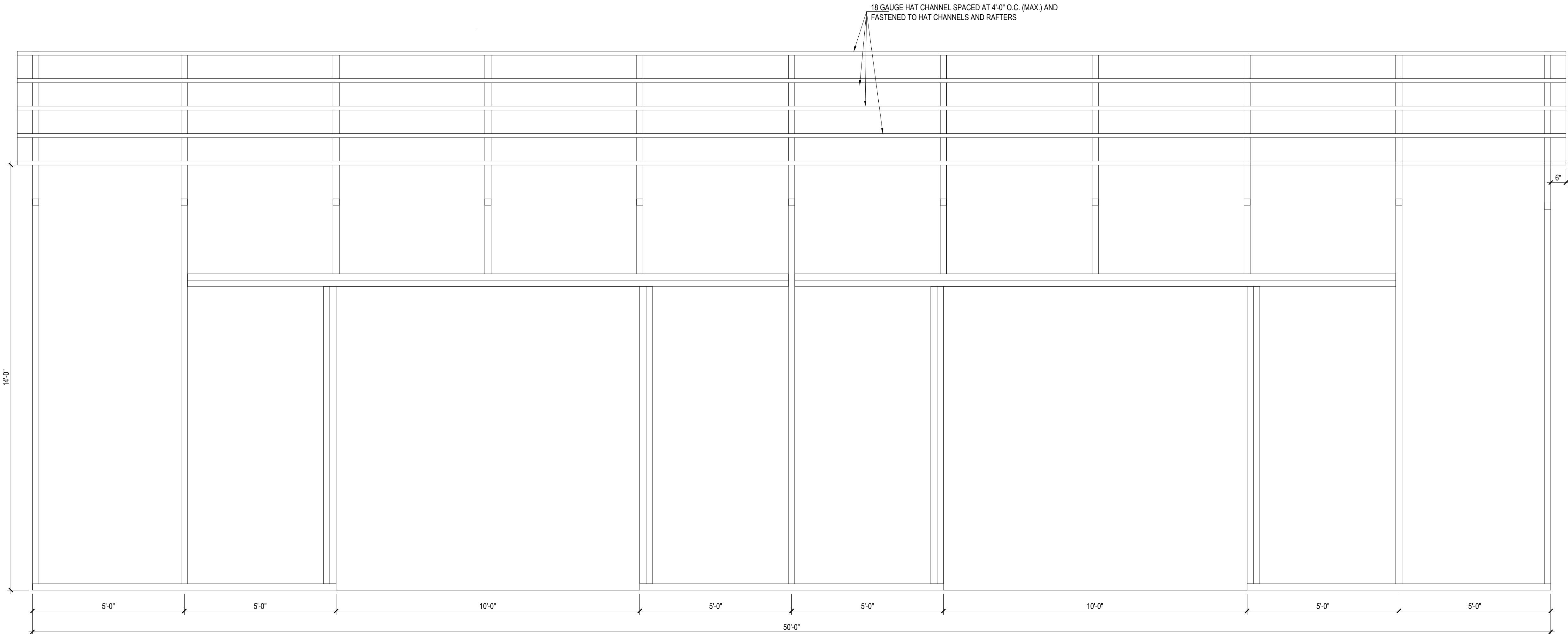
DATE: 07/28/2025
DESIGNED BY: M.E
DRAWN BY: M.E
SHEET NUMBER: 01



1
S2

TYPICAL FRAME SECTION SPACED @ 5'-0"

SCALE: 1/2"=1'



2
S2

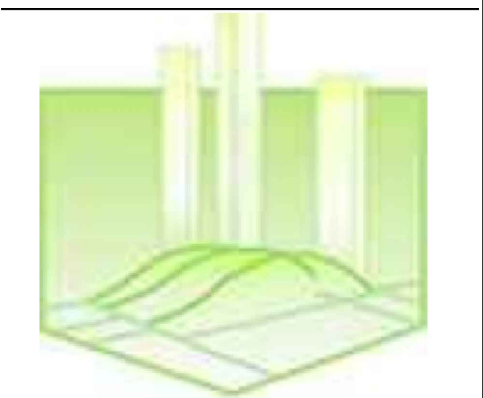
LEFT/RIGHT SIDE VIEW [FRAMING]

SCALE: 1/2"=1'



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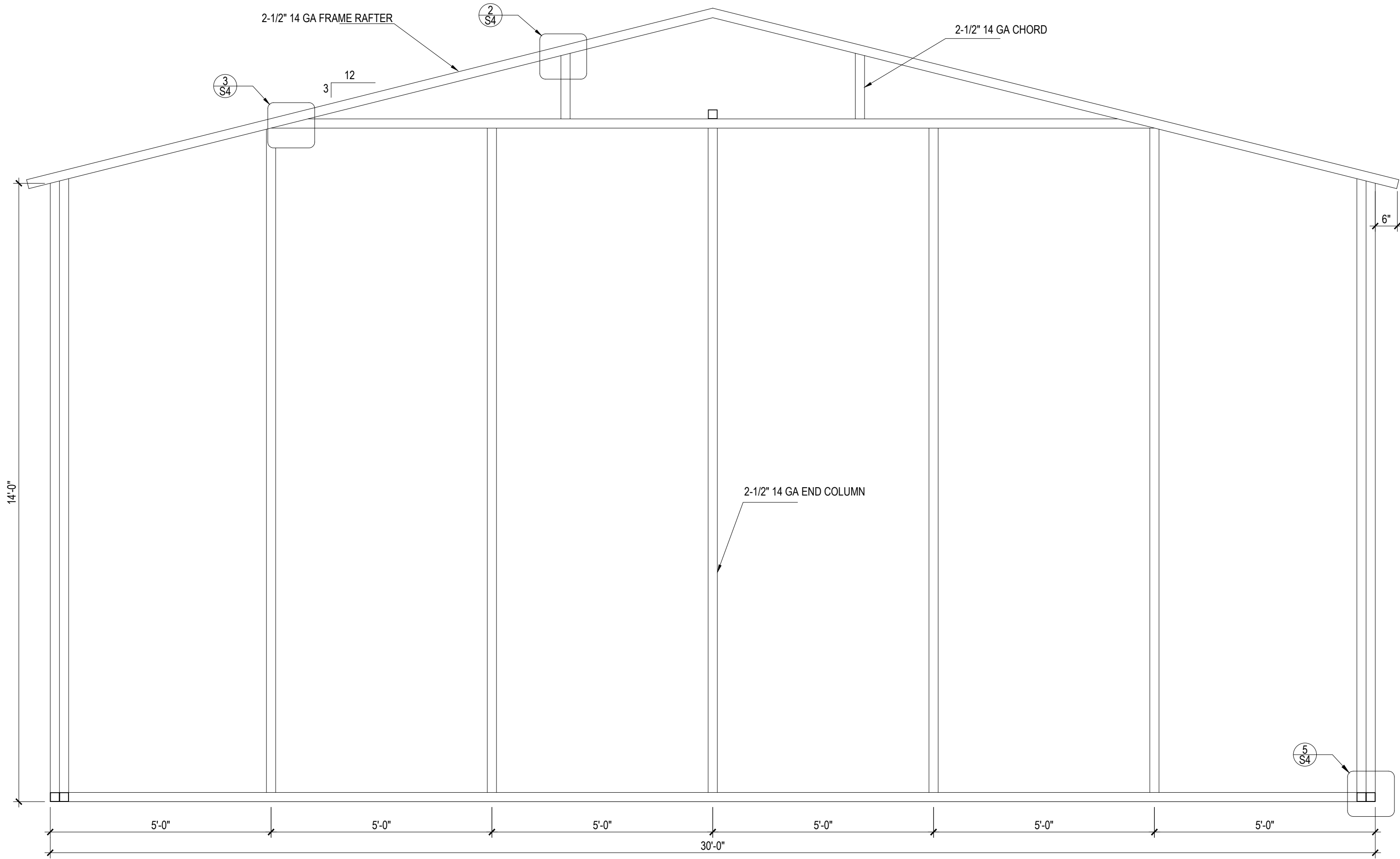
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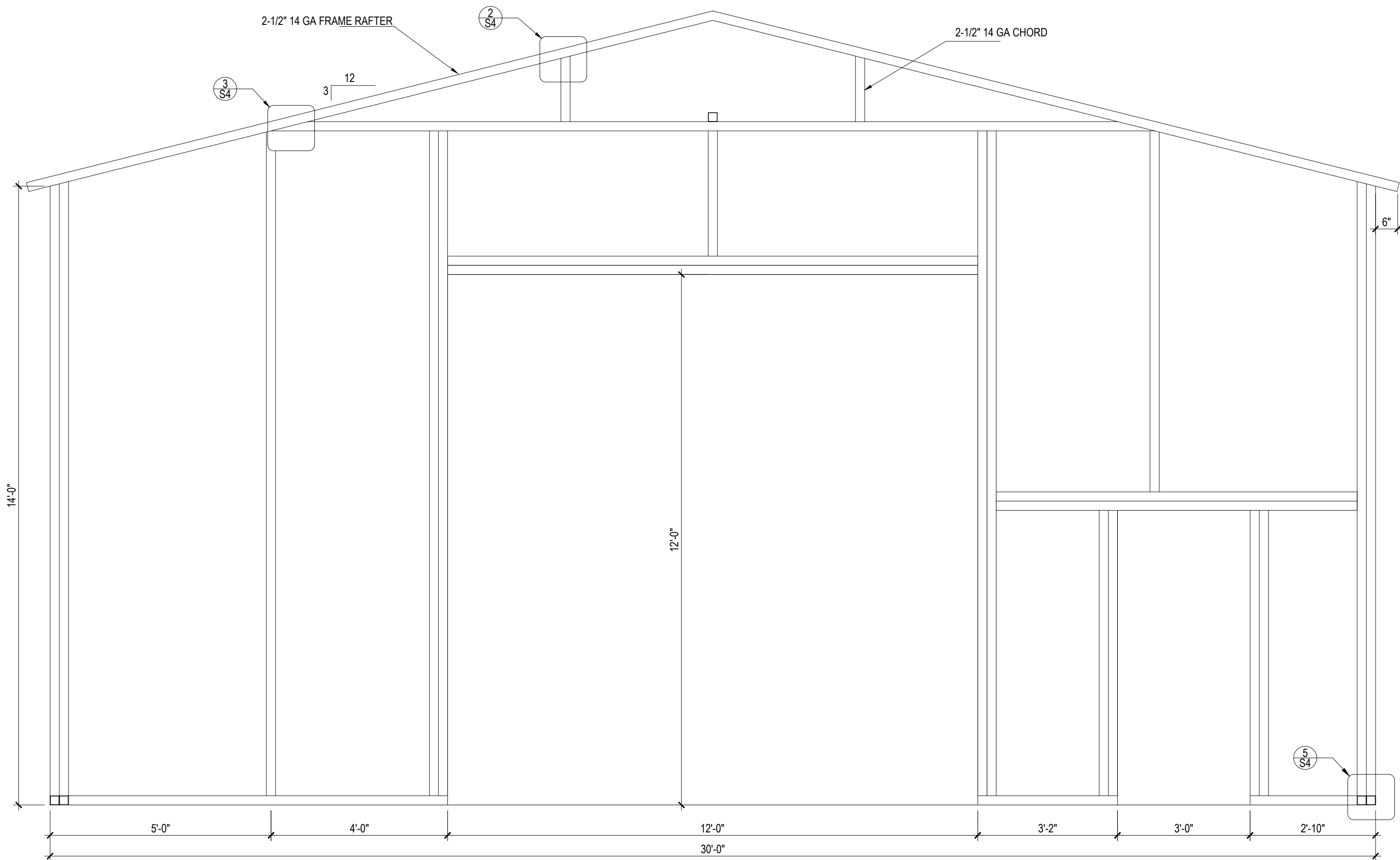
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VIEW/ELEVATION
[FRAMING]

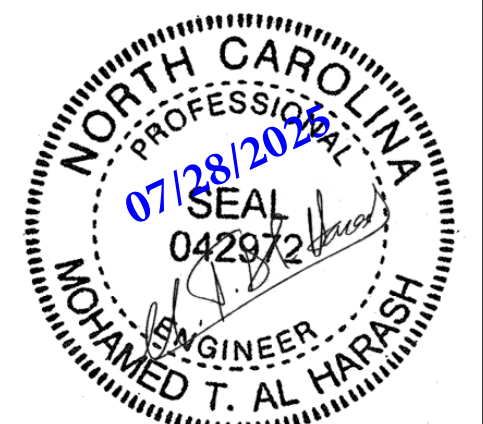
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1 BACK END FRAME SECTION
SCALE: 1/2"=1'

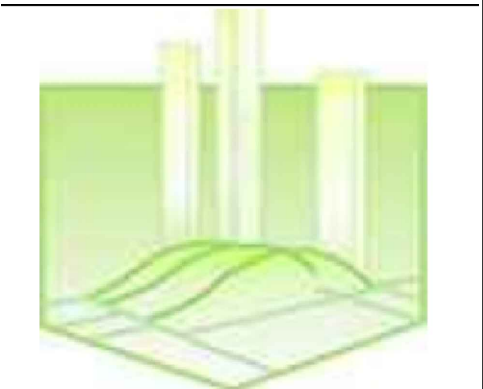


2 FRONT END FRAME SECTION
SCALE: 1/2"=1'



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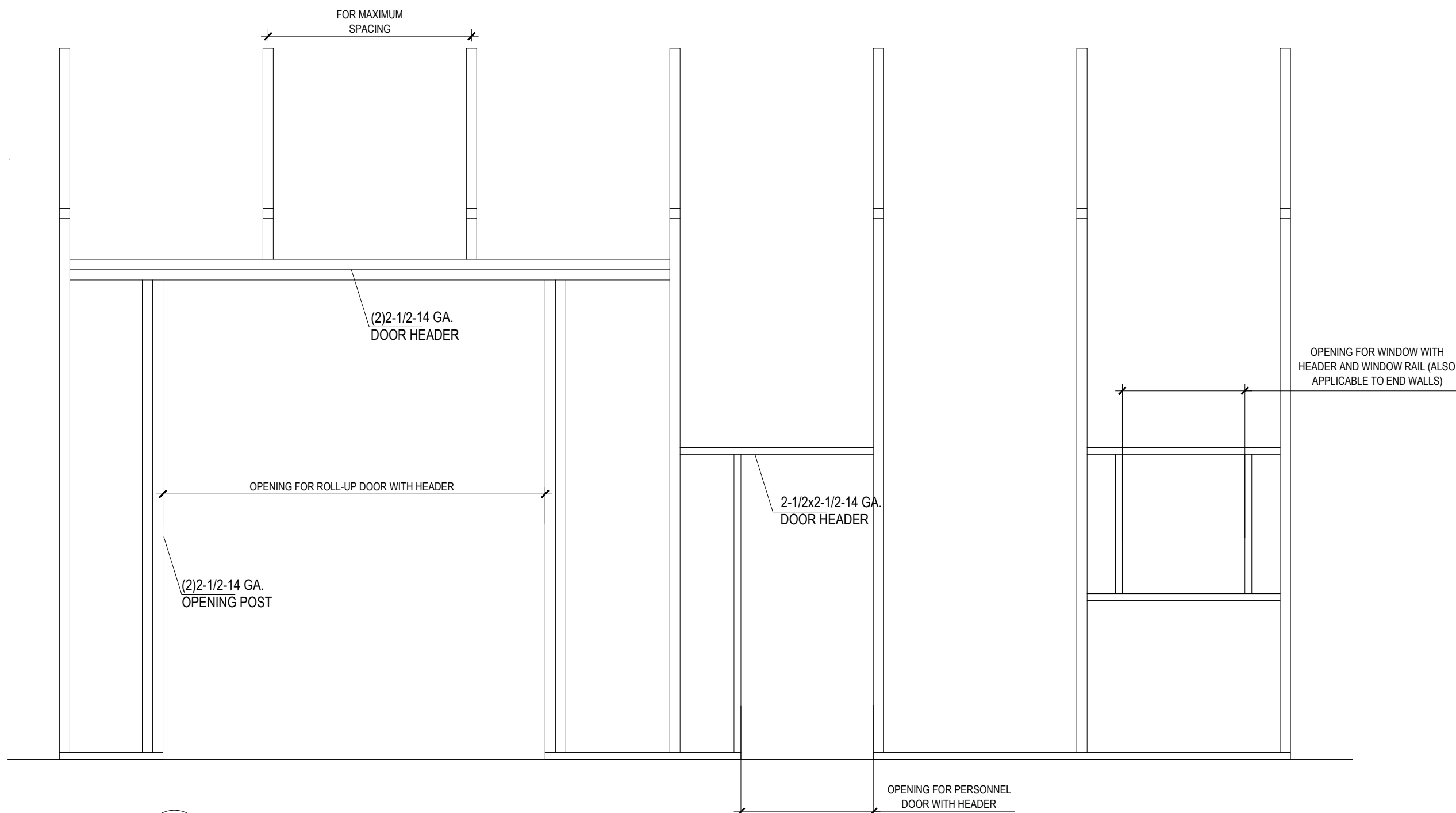
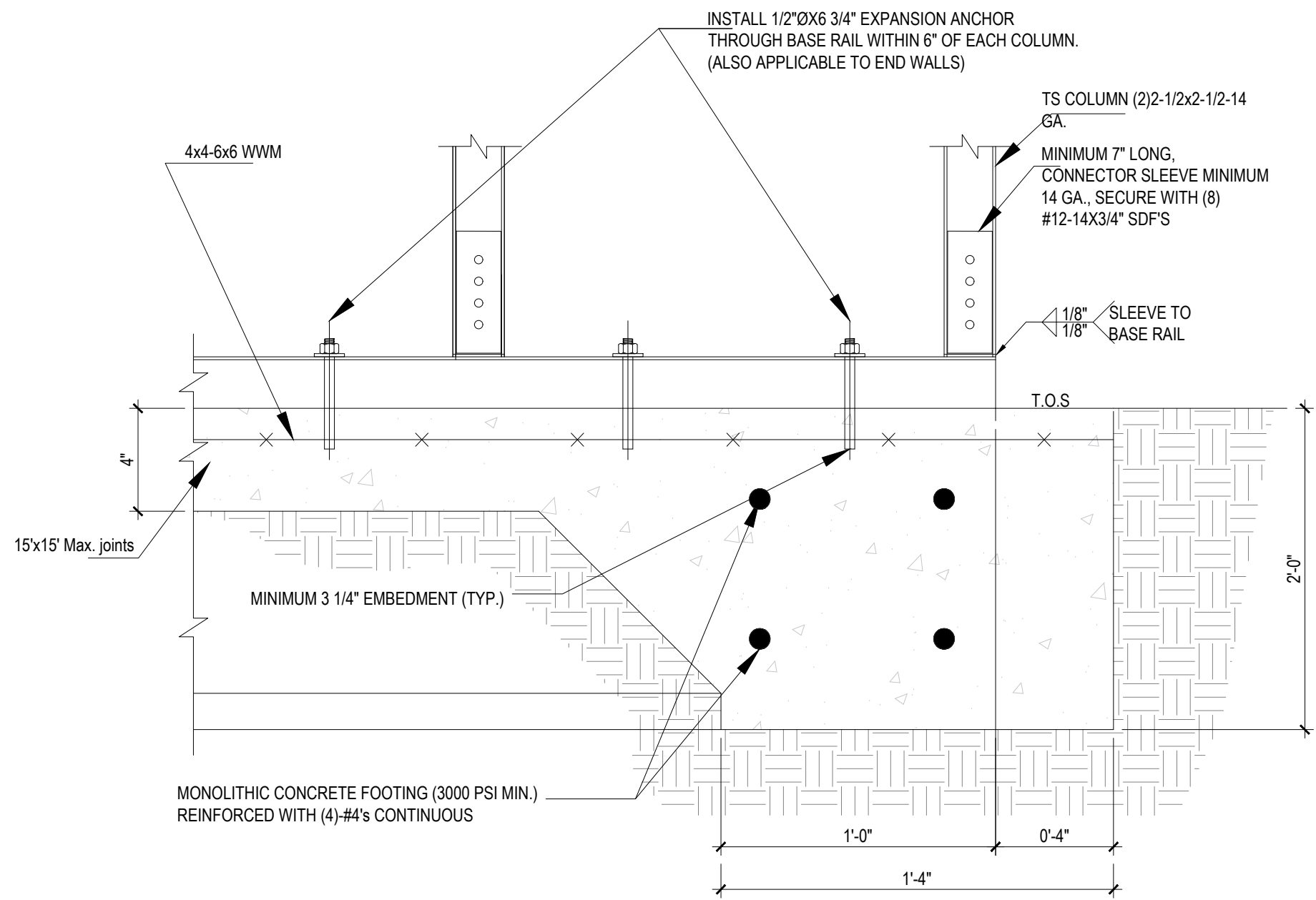
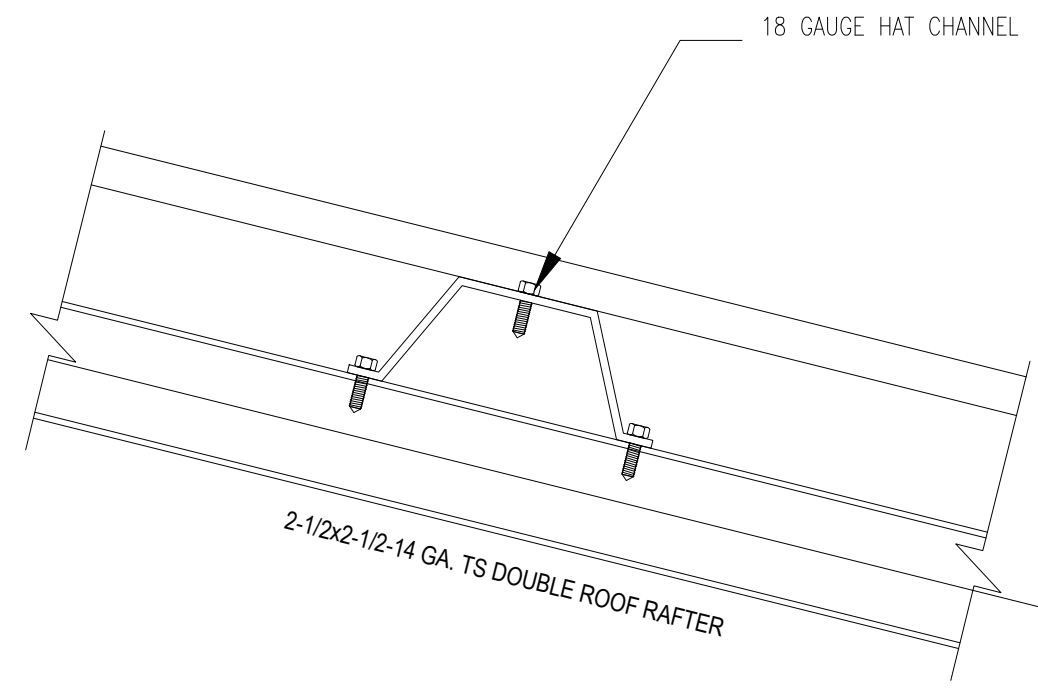
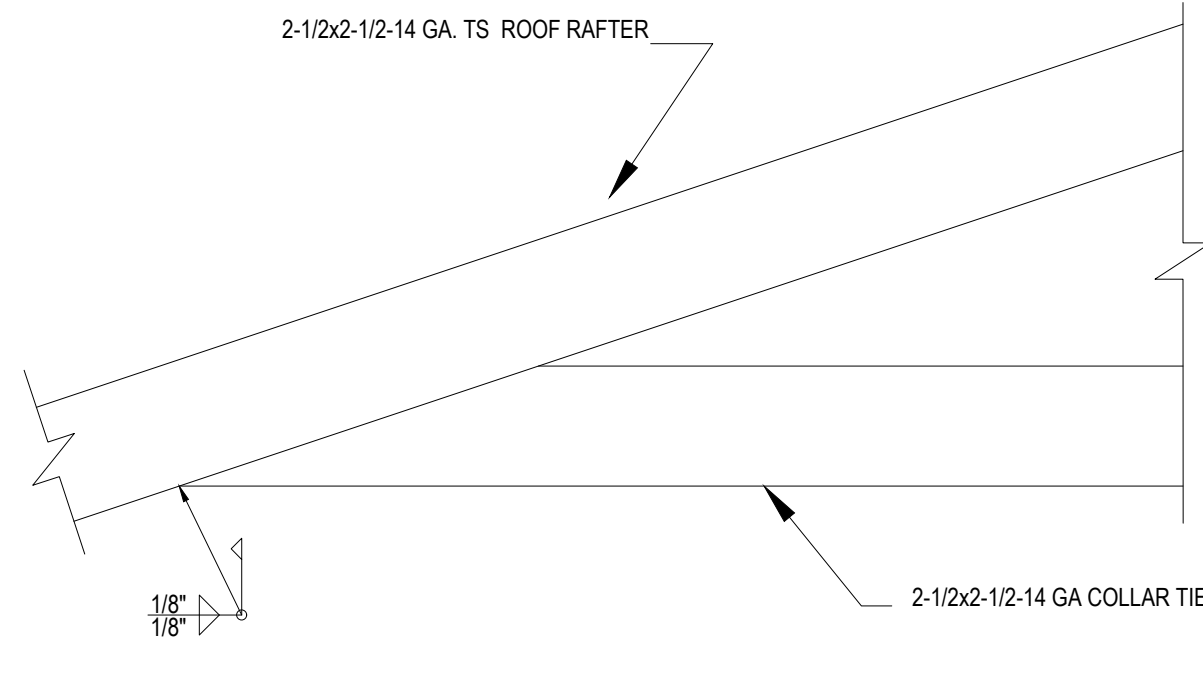
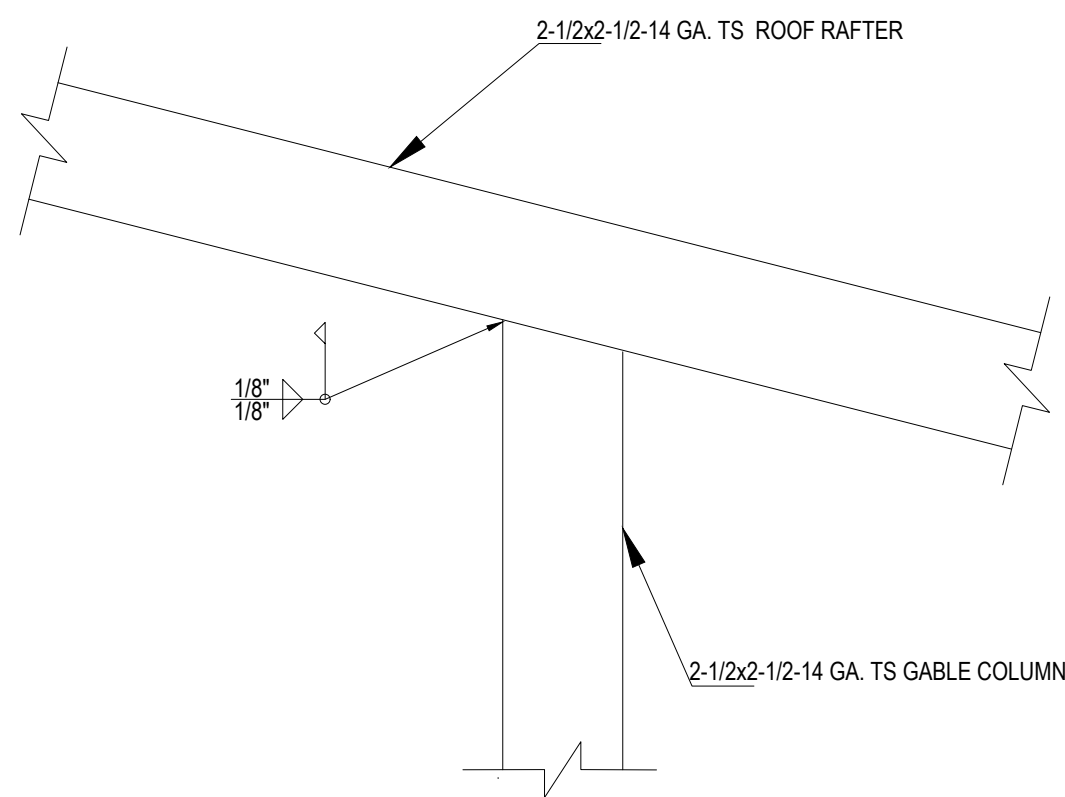
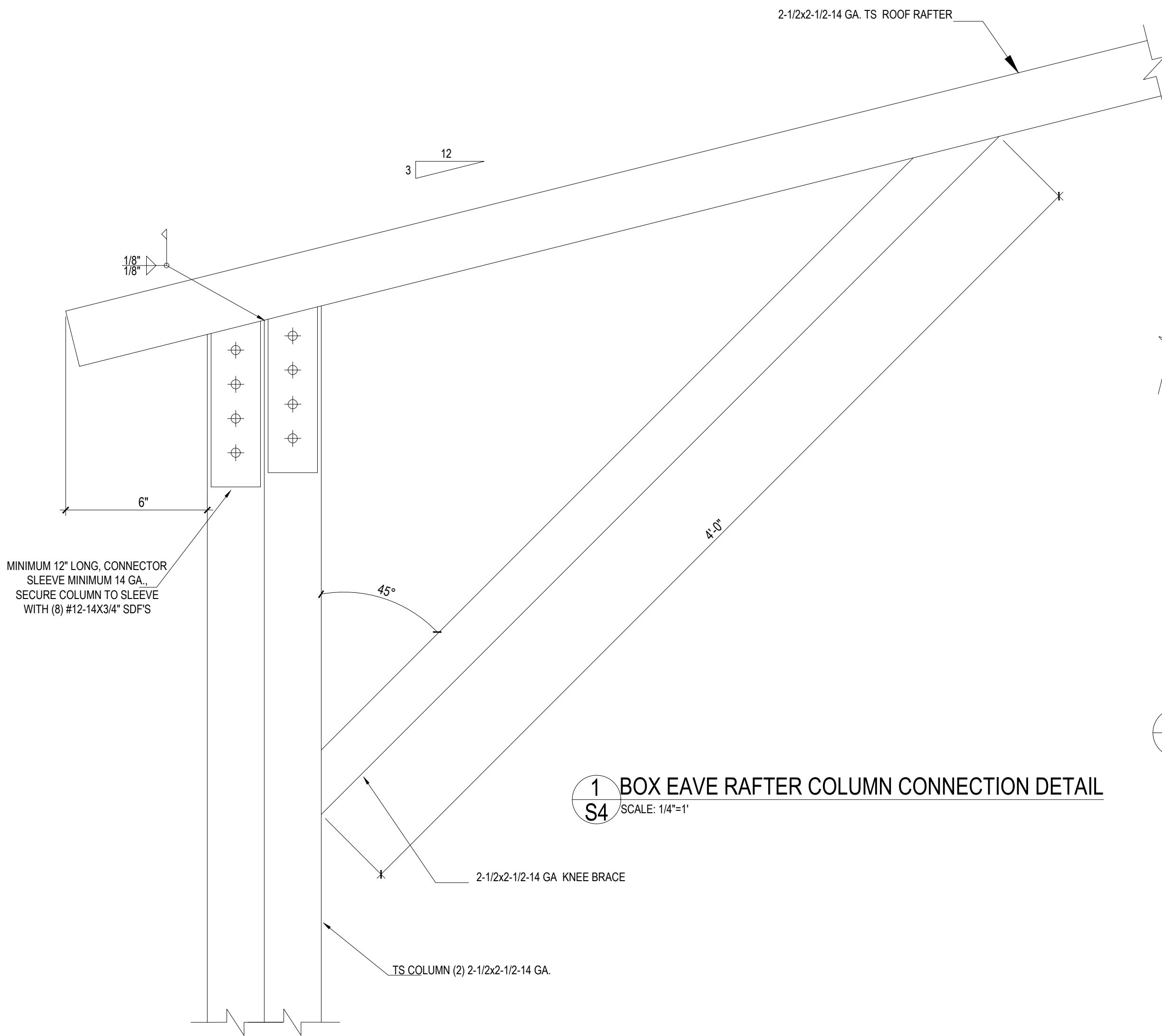
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Job Number : 25.02.04



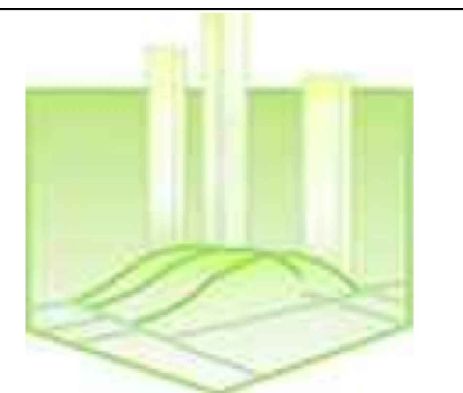
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| SHEET NAME: | |
| END SECTIONS [FRAMING] | |
| DATE: | 07/28/2025 |
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| DRAWN BY: | M.E |
| SHEET NUMBER: | 03 |



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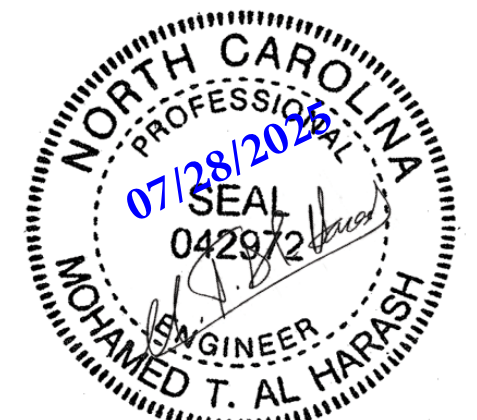
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SHEET NAME:

GENERAL DETAILS

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SHEET NUMBER: 04



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Structural Engineer



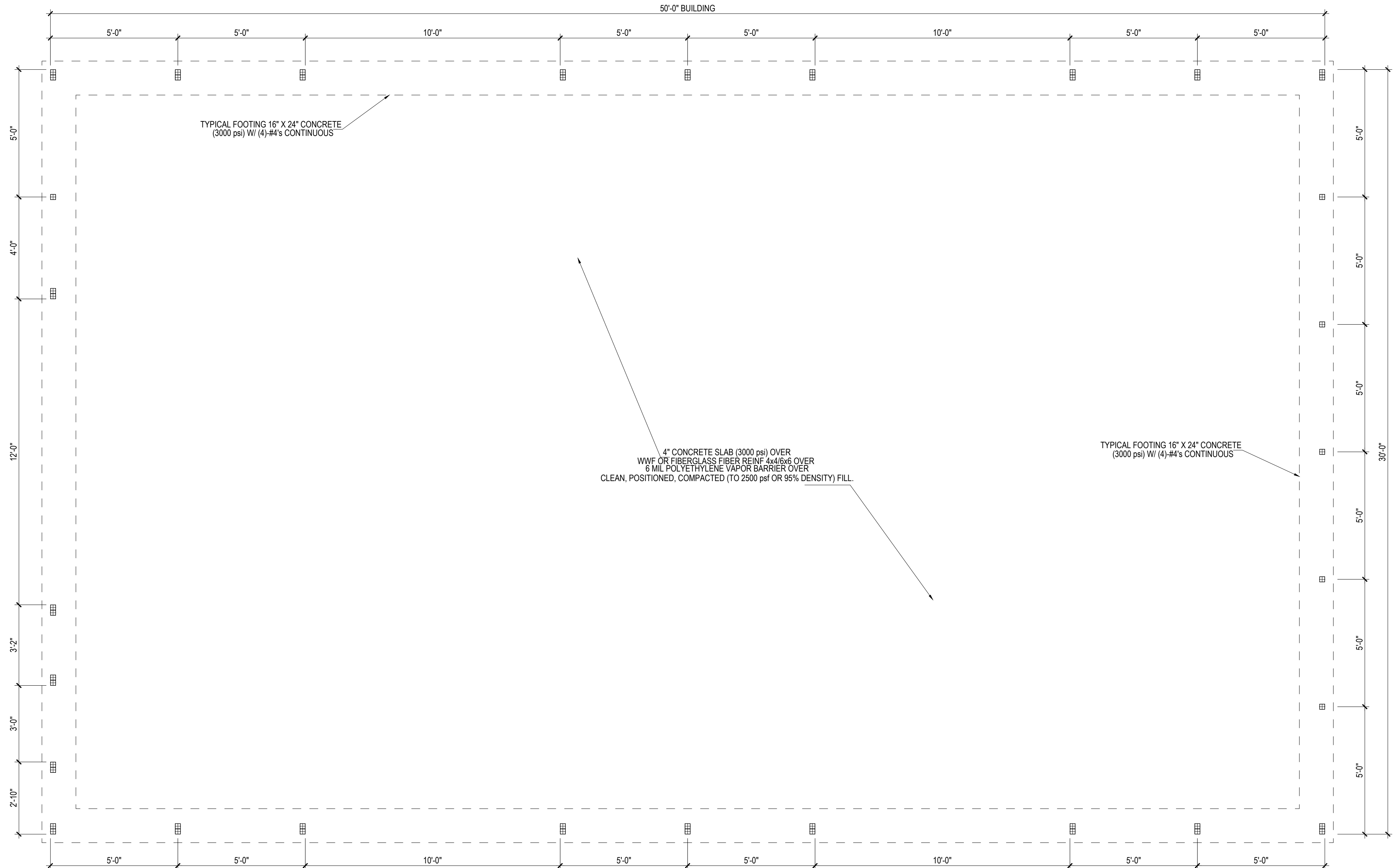
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Address: 176 Old Mill Road Fuquay
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Job Number : 25.02.04



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| SHEET NAME: | |
| COLUMN LAYOUT PLAN | |
| DATE: | 07/28/2025 |
| DESIGNED BY: | M.E |
| DRAWN BY: | M.E |
| SHEET NUMBER: | 05 |



1 FOUNDATION LAYOUT PLAN
S5 SCALE: 3/8"=1'