MORTON BUILDINGS GENERAL SPECIFICATIONS

<u>LAMINATED COLUMNS</u> - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER \$4\$ COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION. DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE. CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR \$4\$.

PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED, IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

SIDING & ROOFING PANELS (FLUOROFLEX 1000 ™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" OR 6" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.
2x4 F1 F1 MFS 09/20

SHEET INDEX	
SHEET#	DESCRIPTION
G1 OF G1	SPECIFICATIONS & SHEET INDEX
\$1 OF \$10	COLUMN PLAN
S2 OF S10	TRUSS/BRACING PLAN & DETAILS
S3 OF S10	TRUSS DRAWING AND DETAILS
S4 OF S10	ELEVATIONS
S5 OF S10	SECTIONS & DETAILS
S6 OF S10	SECTIONS
S7 OF S10	SECTIONS & DETAILS
S8 OF S10	SECTIONS & DETAILS
S9 OF S10	DETAILS
\$10 OF \$10	SECTIONS & DETAILS

CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE Fb
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2X6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x15"	GLU-LAM	1650 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

DESIGN AND EXPLANATORY NOTES

- 1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.
- 2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.
- 3.) MINIMUM LIVE ROOF LOAD DESIGNS FOR CONSTRUCTION, MAINTENANCE, REPAIR, AND OTHER TEMPORARY LOADS PER SECTION 1607.12.2
- a.) ROOF PURLINS AND OTHER SECONDARY STRUCTURAL MEMBERS = 20 PSF
- b.) ROOF TRUSSES, HEADERS, COLUMNS AND OTHER PRIMARY STRUCTURAL MEMBER = 16 PSF
- c.) FOOTINGS = 12 PSF (DESIGNED FOR ROOF SNOW LOAD AND OTHER NON-TEMPORARY LOADS W/ APPROVAL FROM BUILDING OFFICIAL).
- 4.) NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ENGINEER.
- 5.) THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.

BUILDING DESIGN CRITERIA	
USE GROUP	U
CONSTRUCTION TYPE	VB
RISK CATEGORY	II
BUILDING AREA	2352 SQ. FT.
ROOF SNOW LOAD *	13 PSF
GROUND SNOW LOAD	15 PSF
WIND SPEED (VULT)	120 MPH
WIND SPEED (VASD)	93 MPH
EXPOSURE CATEGORY	С

*ROOF SNOW LOAD CALCULATIONS

Pf = 0.7 x Ce x I x Pg x Ct

Ce = SNOW EXPOSURE FACTOR = 1.0

I = IMPORTANCE FACTOR = 1.0

Pg = GROUND SNOW LOAD = 15 PSF Ct = THERMAL FACTOR = 1.2

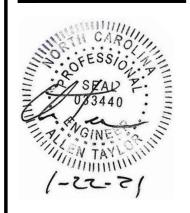
Pf = 0.7 x 1.0 x 1.0 x 1.5 x 1.2 = 12.60 PSF Cs = ROOF SLOPE FACTOR = 1.0

Ps = Pf x Cs = $12.60 \times 1.0 = 12.60 \text{ PSF}$

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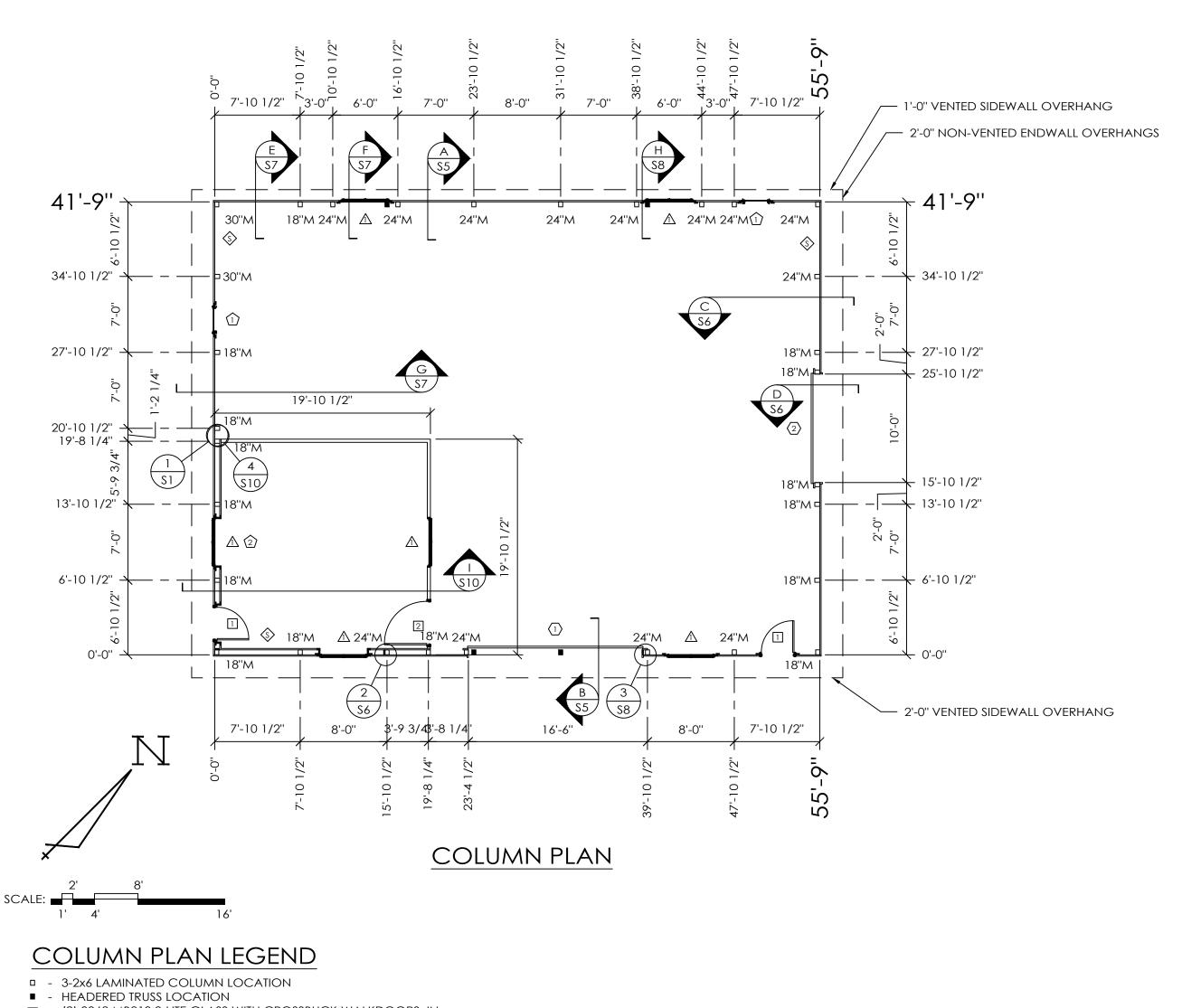
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RD PRESCOT

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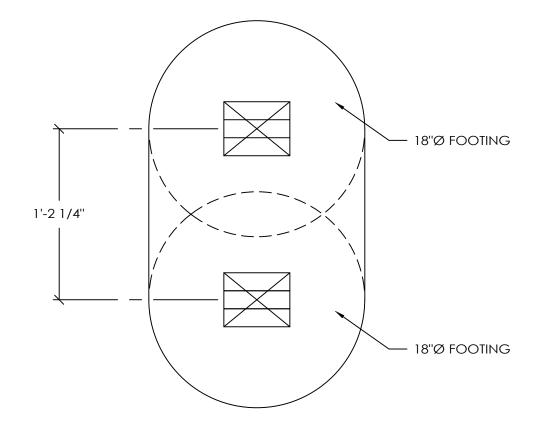
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- ☐ (2) 3068 MB910 9-LITE GLASS WITH CROSSBUCK WALKDOORS, IN SWING, LEFT HINGE WITH DOUBLE CYLINDER DEADBOLT, LOCKSET
- 2 4068 FIBERSTEEL PLAIN LEAF WALKDOOR, IN
- SWING, RIGHT HINGE WITH LOCKSET
- 1 (2) 2'-6"x2'-6" EXAUST FAN
- 2 3'-6"x1'-4" PTEC UNIT
- △ (6) 4429 9-LITE MB SLIDING WINDOWS
 - 16'-2"x8'-0" OVERHEAD DOOR
 ② 10'-2"x8'-0" OVERHEAD DOOR

- (2) 3'-6"x3'-6" NON-FUNCTIONAL CUPOLA WITH 'M' 30" WEATHERVANE
- ALL STEEL FASTENED WITH STAINLESS STEEL SCREWS
- $\ \diamondsuit \$ $\$ 7/16" OSB SHEARWALL LOCATION (SEE DETAILS ON SHEET S8 FOR ENDWALLS AND S9 FOR SIDEWALL)
- 18"M 18" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.
- 24"M 24" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.
- 30"M 30" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLÚMN AROUND EXPÓSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

ROUGH OPENING SCHEDULE		
UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
1	37 3/4"	81"
2	49 3/4"	81"
\triangle	52 1/4"	33 5/8"

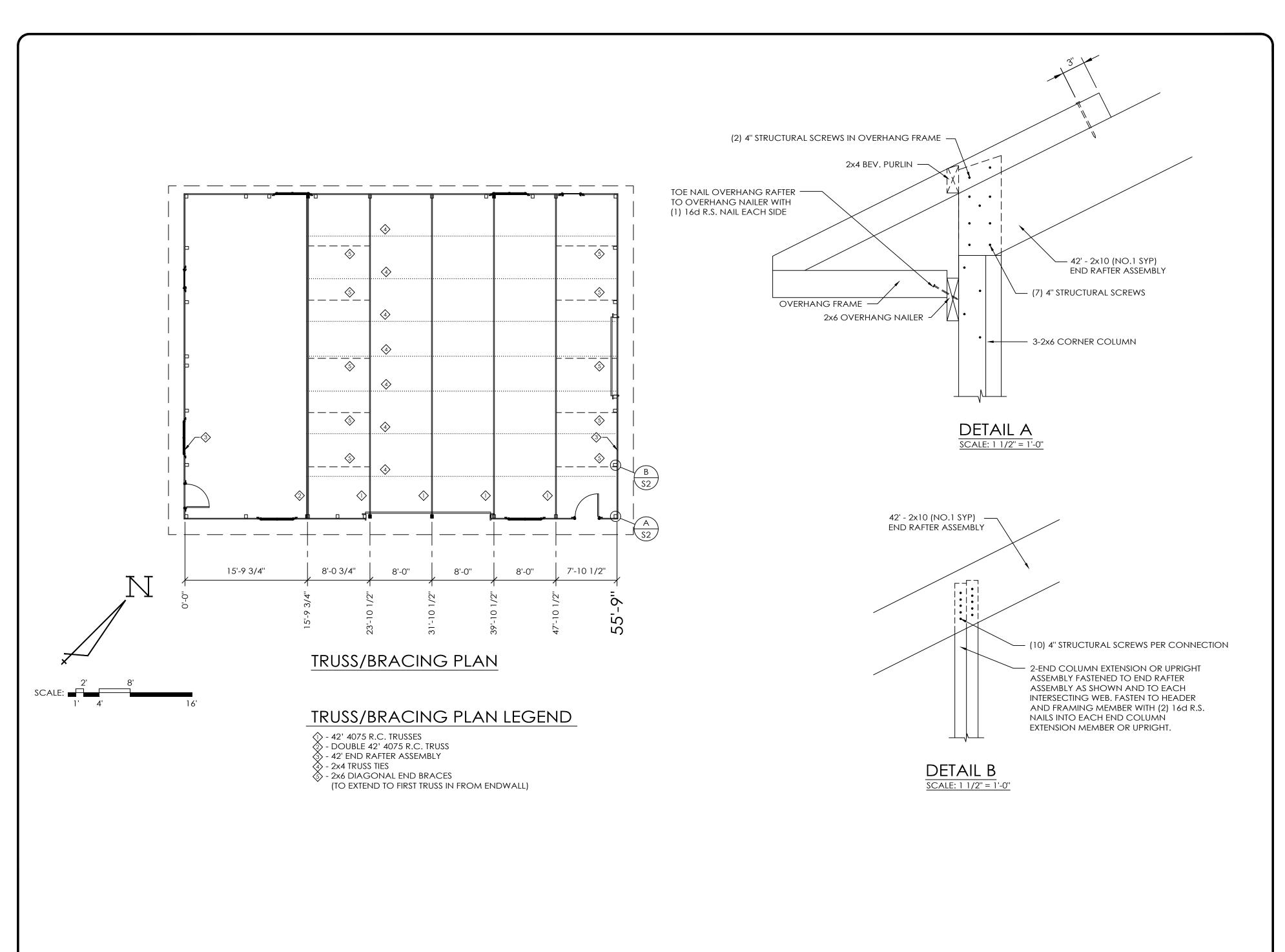


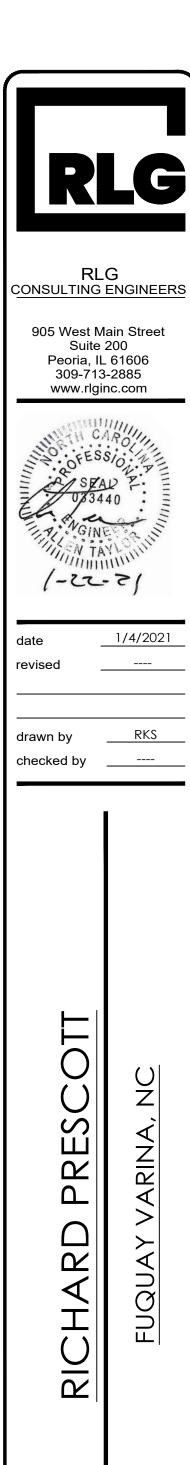
COMBINED FOOTING DETAIL #1 SCALE: 1 1/2" = 1'-0"

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datereviseddrawn by checked by	1/4/2021 RKS
RICHARD PRESCOTT	FUQUAY VARINA, NC

project 137-103569

\$1 OF \$10

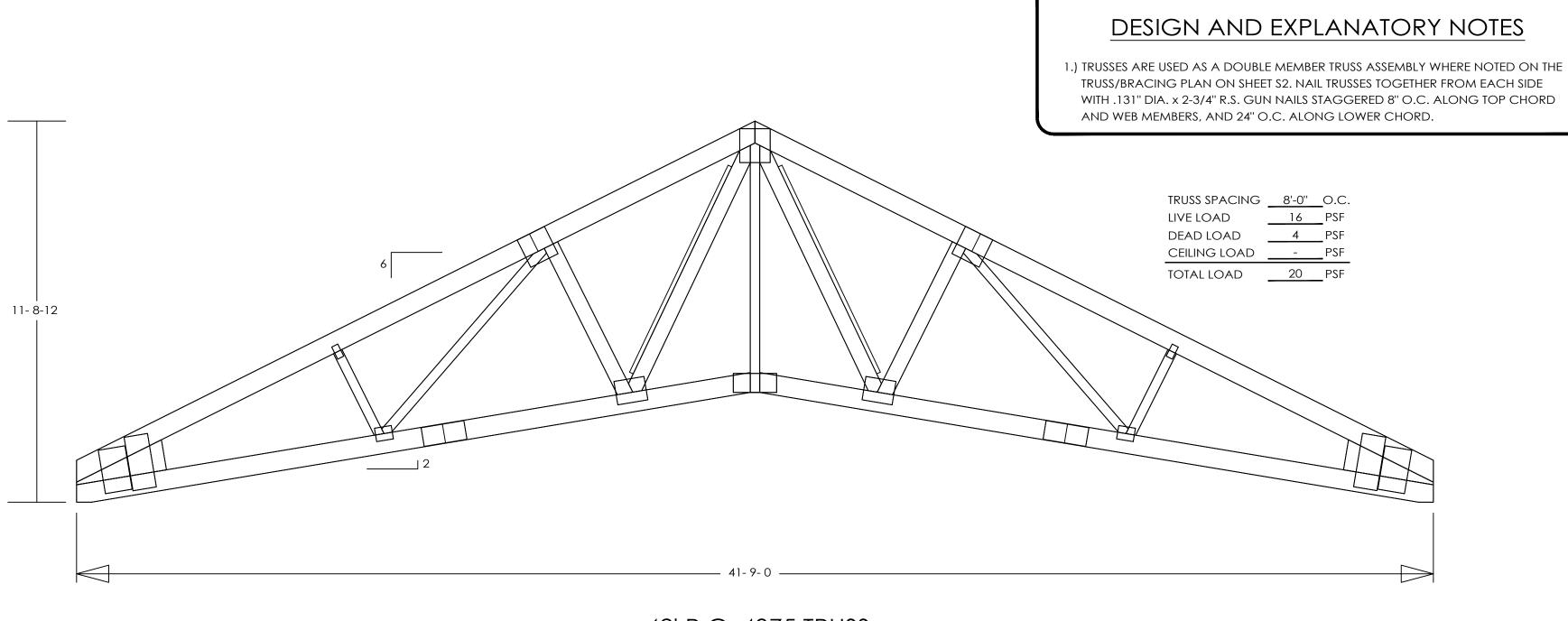




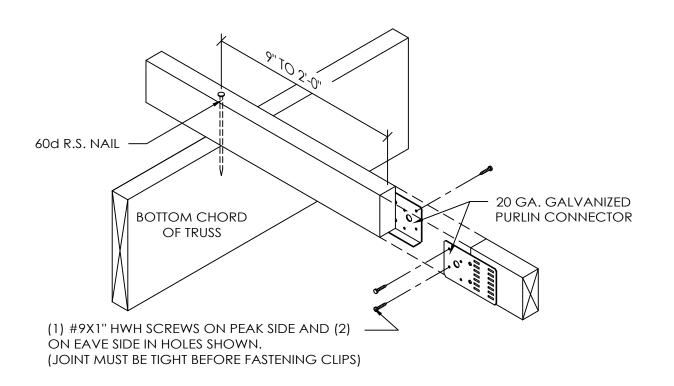
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S2 OF S10

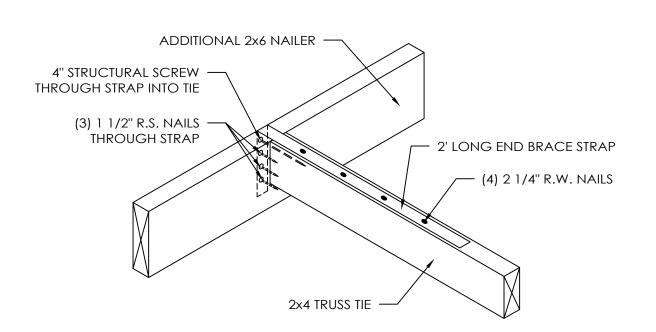


42' R.C. 4075 TRUSS SCALE: 3/8" = 1'-0" (SEE NOTE #1)



2x4 TRUSS TIE DETAIL

SCALE: 1/2" = 1'-0"



2x4 TRUSS TIE TO ENDWALL DETAIL

SCALE: 1/2" = 1'-0"

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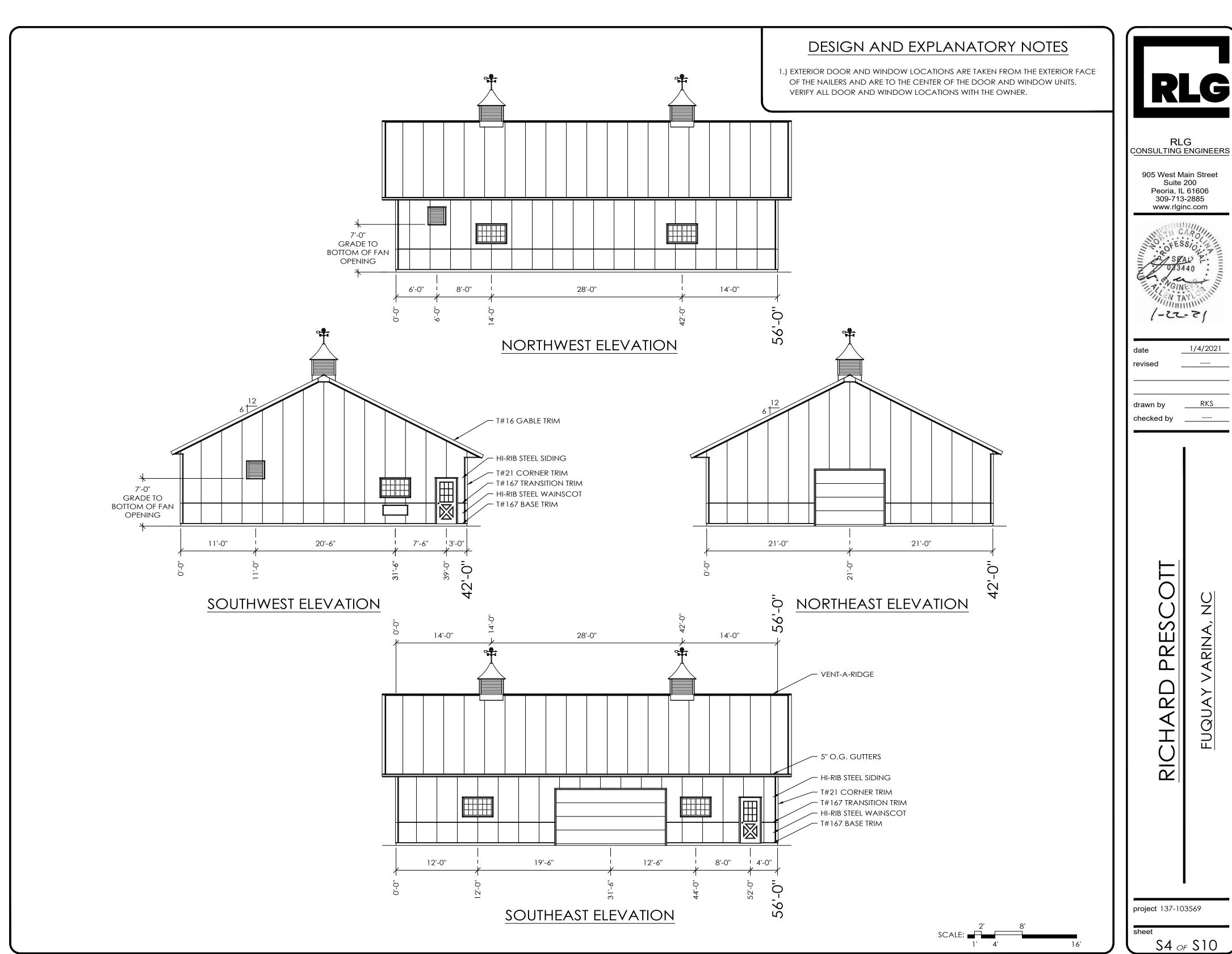


CHARD PRESCOTT FUQUAY VARINA, NC

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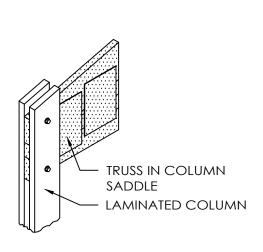
S3 OF S10

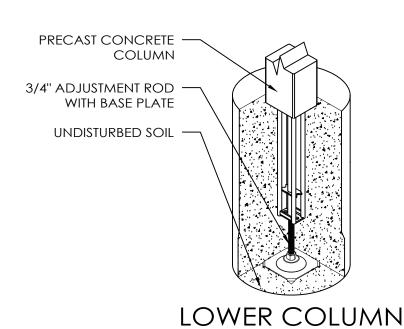






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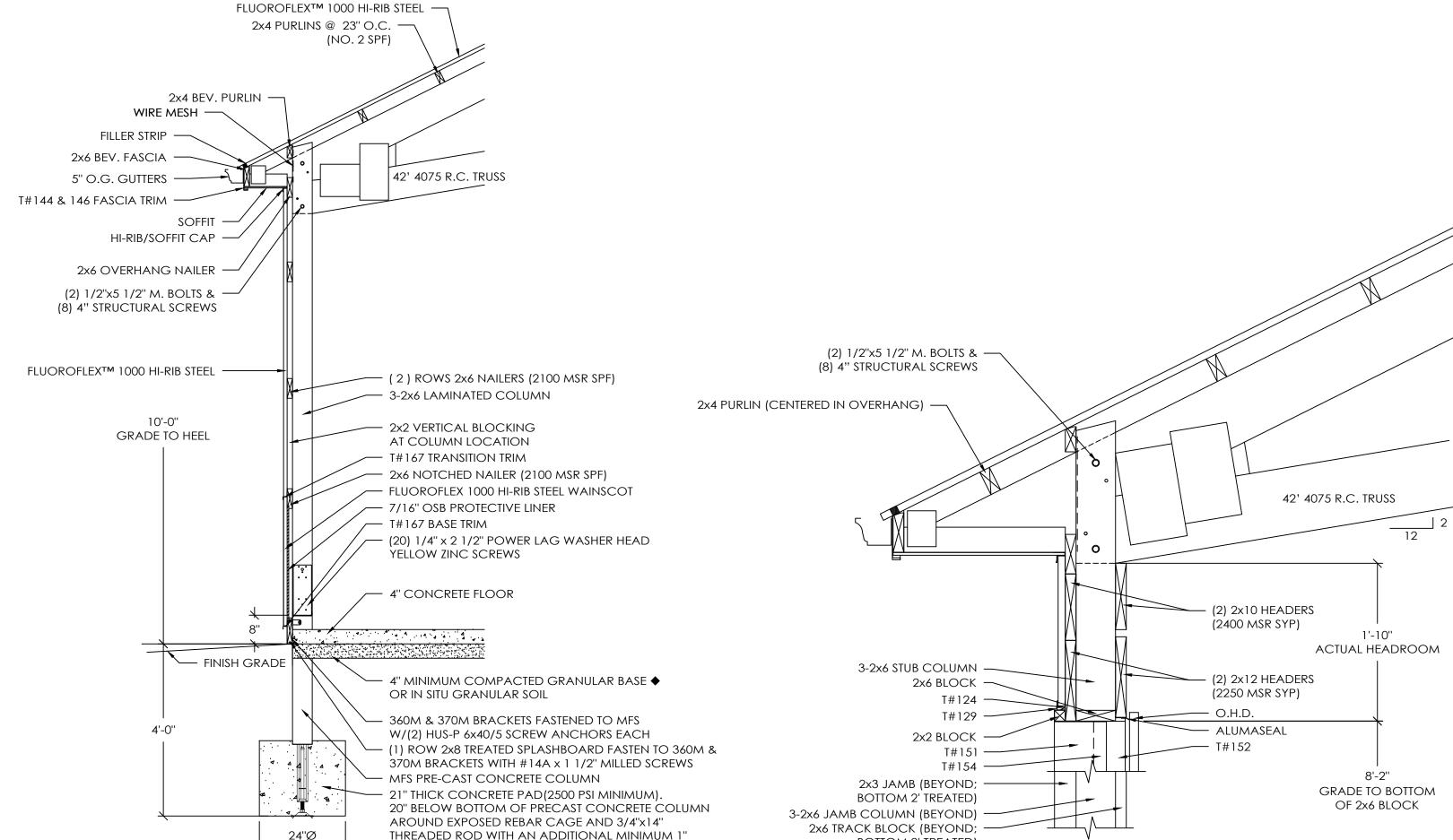
ISOMETRIC

LOWER COLUMN INSTALLATION

- 1. INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE.
- 2. PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS
- 3. ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD
- 4. POUR READI-MIX CONCRETE INTO THE HOLE AS SPECIFIED.
- 5. BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.

DESIGN AND EXPLANATORY NOTES

- 1. FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY. LOCAL CONDITIONS MAY REQUIRE MODIFICATIONS.
- 2. CONCRETE FLOOR NOTES:
 - a. 3500 PSI, 5 1/2 BAG MIX CONCRETE.
 - b. SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH.
 - c. A VAPOR RETARDER IS NOT MANDATED PER IBC SECTION 1907 EXCEPTION 3. UNLESS THE FLOOR WILL BE COVERED BY MOISTURE SENSITIVE FLOORING MATERIALS OR IMPERMEABLE FLOOR COATINGS OR WHERE THE FLOOR WILL BE IN CONTACT WITH ANY MOISTURE SENSITIVE EQUIPMENT OR PRODUCT.
 - d. CONTRACTION JOINTS UNIFORMLY SPACED 12' O.C. OR LESS.
- 3. PRIOR TO PLACING THE CONCRETE FOOTINGS, HAND TAMP THE BOTTOM 2"-3" OF LOOSE SOIL TO CONSOLIDATE. IF THE DRILLED HOLE CONTAINS MORE THAN 3" OF LOOSE SOIL, REMOVE EXCESS SOIL TO A UNIFORM THICKNESS OF 2"-3", HAND TAMP AND PROCEED WITH CONCRETE FOOTING PLACEMENT.
- 4. DO NOT PLACE CONCRETE FOOTING THROUGH MORE THAN 3" OF STANDING WATER. IF MORE THAN 3" OF STANDING WATER IS PRESENT IN THE FOOTING HOLE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR INSTALLATION INSTRUCTIONS.



HEADER FASTENING SCHEDULE HEADER JAMB COLUMN MEMBER COLUMN EA. 2x12 11 EA. 2x10 8 4

- 1. NUMBERS ABOVE ARE 4" STRUCTURAL SCREWS REQUIRED PER CONNECTION.
- 2. PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
- 3. IF NUMBER OF SCREWS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS SCREWS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.

OHD HEADER SECTION B SIDEWALL SECTION A

ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF

LOWER COLUMN IN ONE OPERATION.

SCALE: 1/2" = 1'-0"

SCALE: 1" = 1'-0"

BOTTOM 2' TREATED)

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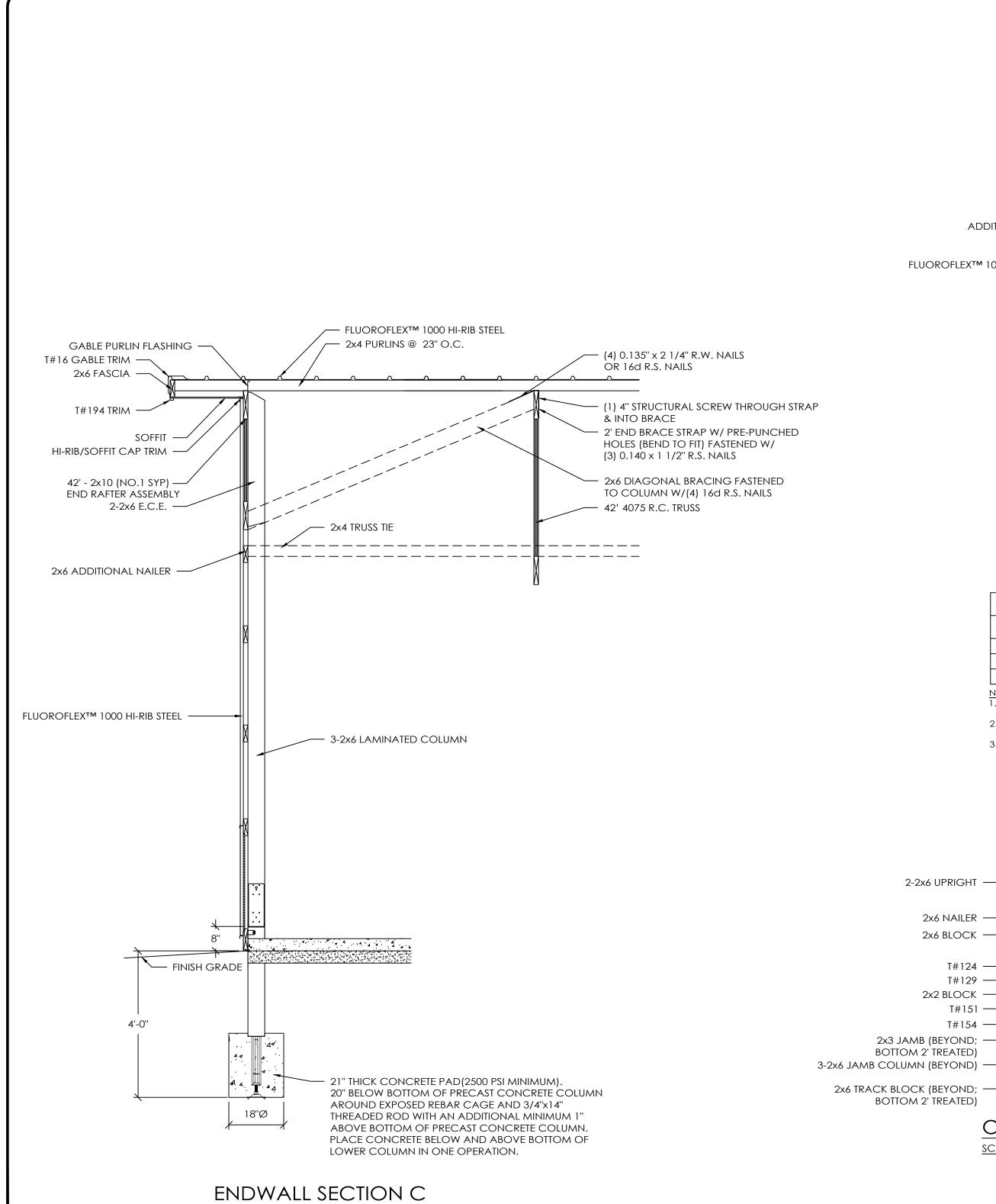
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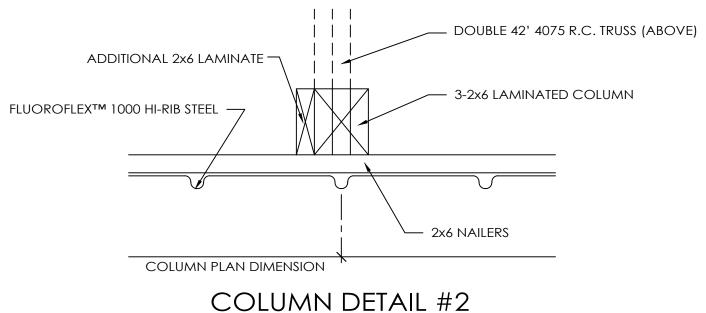
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SCALE: 1/2" = 1'-0"



HEADER FASTENING SCHEDULE

HEADER UPRIGHT COLUMN

EA. 2X10 8 6

NOTES

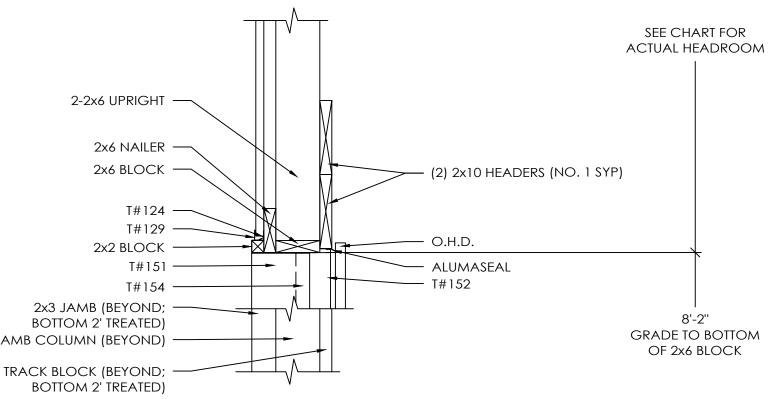
1. NUMBERS ABOVE ARE 4" STRUCTURAL SCREWS REQUIRED PER CONNECTION.

SCALE: 1 1/2" = 1'-0"

- 2. PRE-DRILL HEADERS AS REQUIRED
- TO PREVENT SPLITTING.
- 3. IF NUMBER OF SCREWS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS SCREWSS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.

OVERHEAD DOOR ACTUAL	L
HEADROOM - RAISED	
CHORD TRUSSES	
	_

AT JAMB COLUMNS	4'-5"
AT PEAK OF LOWER CHORD	5'-2"



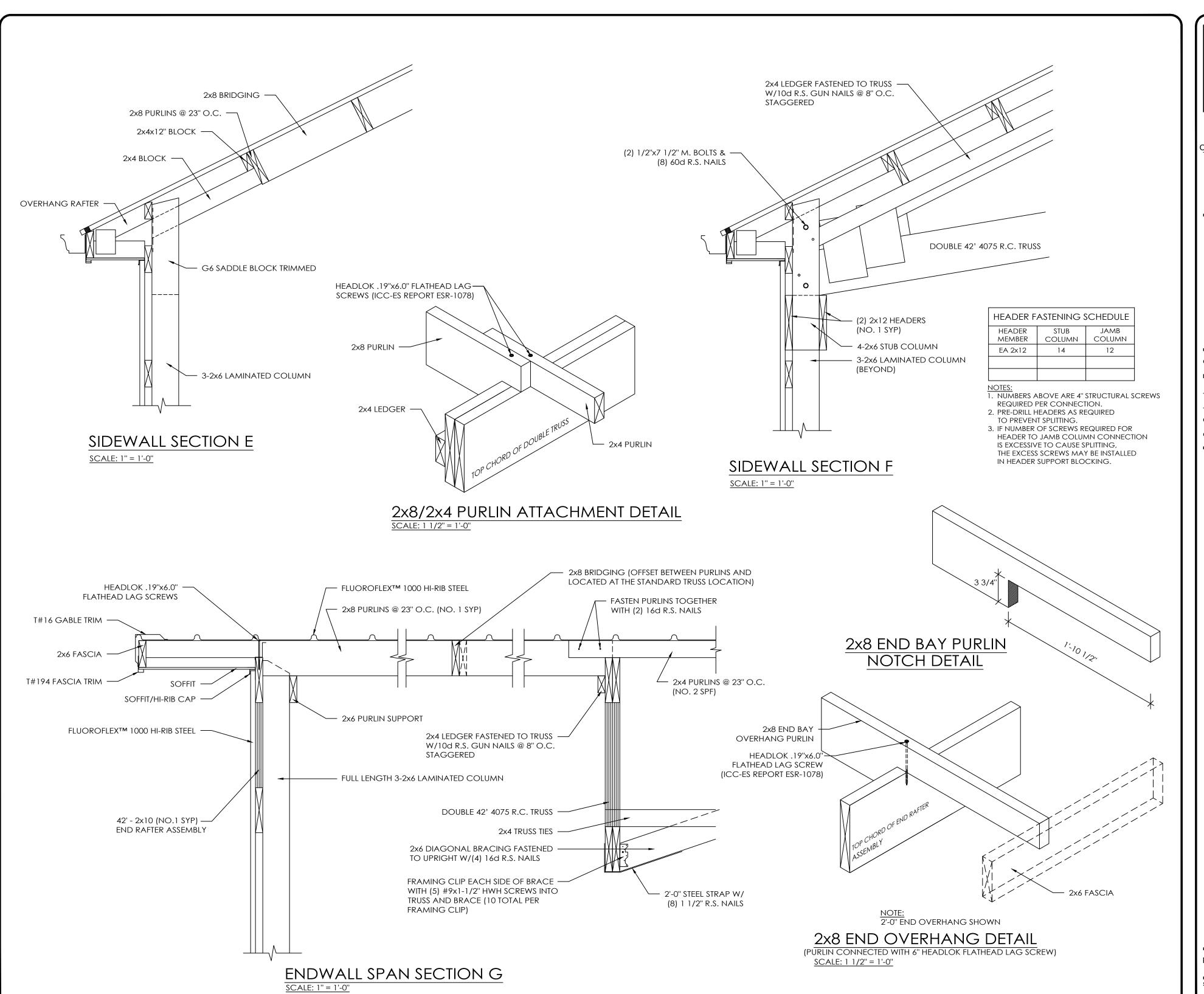
OHD HEADER SECTION D

SCALE: 1" = 1'-0"

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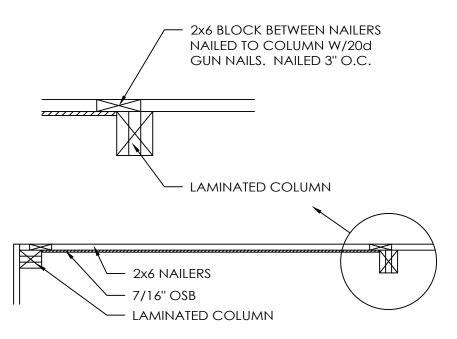
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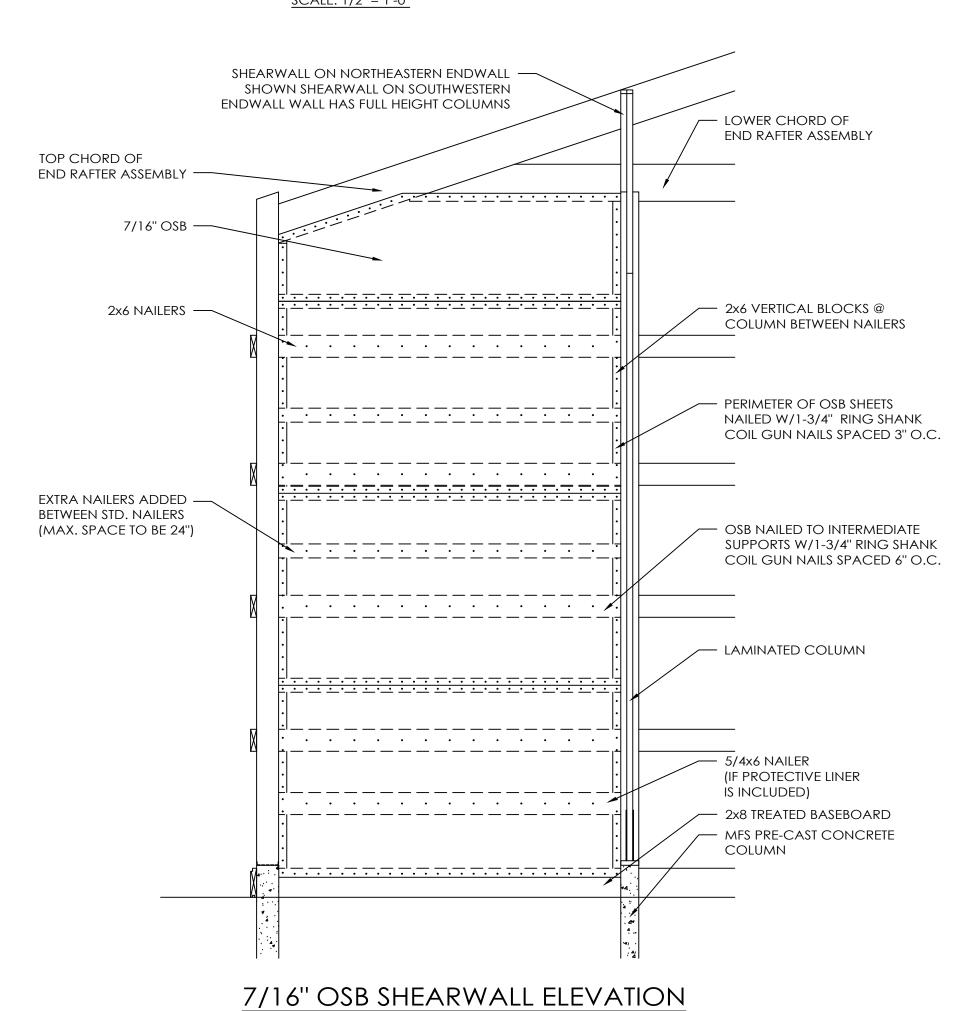
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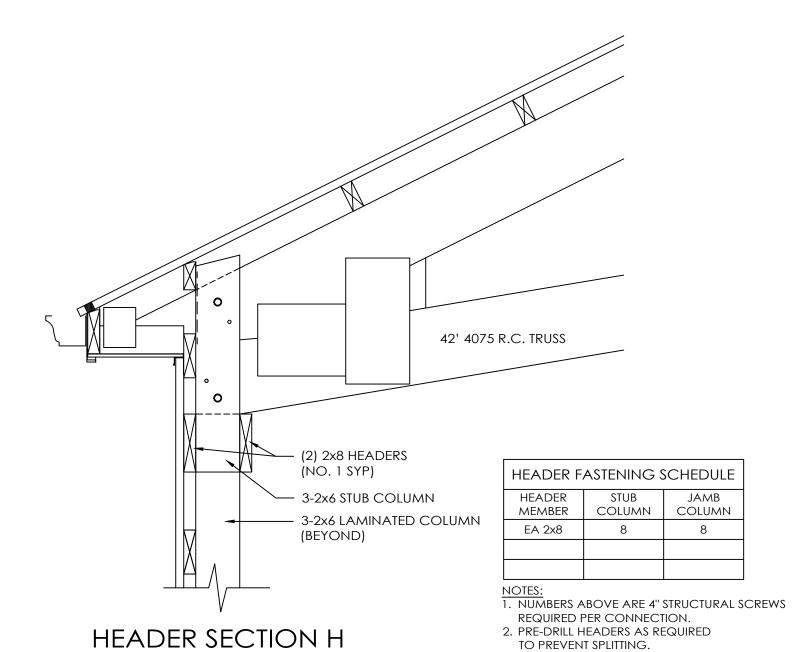
S7 OF S10



OSB SHEARWALL DETAIL SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"



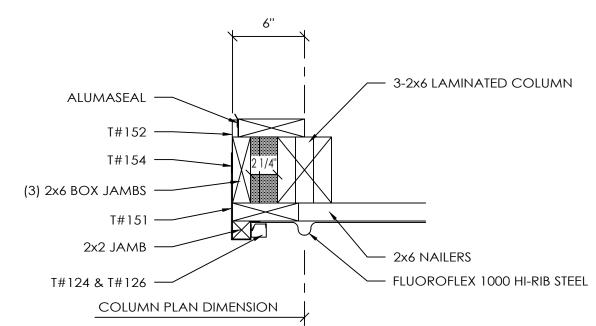
SCALE: 1" = 1'-0"

3. IF NUMBER OF SCREWS REQUIRED FOR

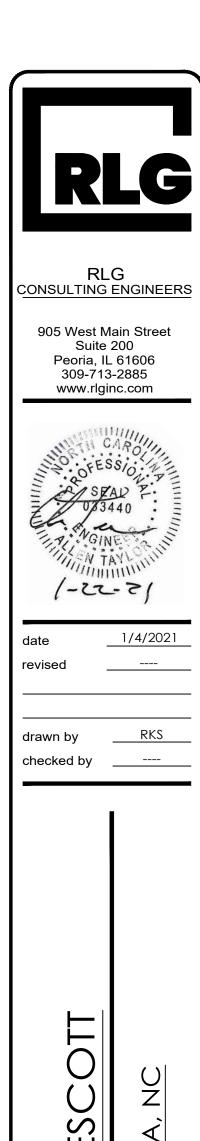
IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS SCREWS MAY BE INSTALLED

IN HEADER SUPPORT BLOCKING.

HEADER TO JAMB COLUMN CONNECTION



NOTE: AT BOTTOM FILL 2 1/4" VOID WITH 2x6x2'6" TREATED BLOCK (RIPPED TO 5-1/4" TO CLEAR SCREW HEADS ON BRACKET) AND 1x6x12" BLOCK (HOLD BOTTOM BLOCKS 1/2" ABOVE FLOOR HEIGHT). AT MIDDLE AND TOP FILL VOID



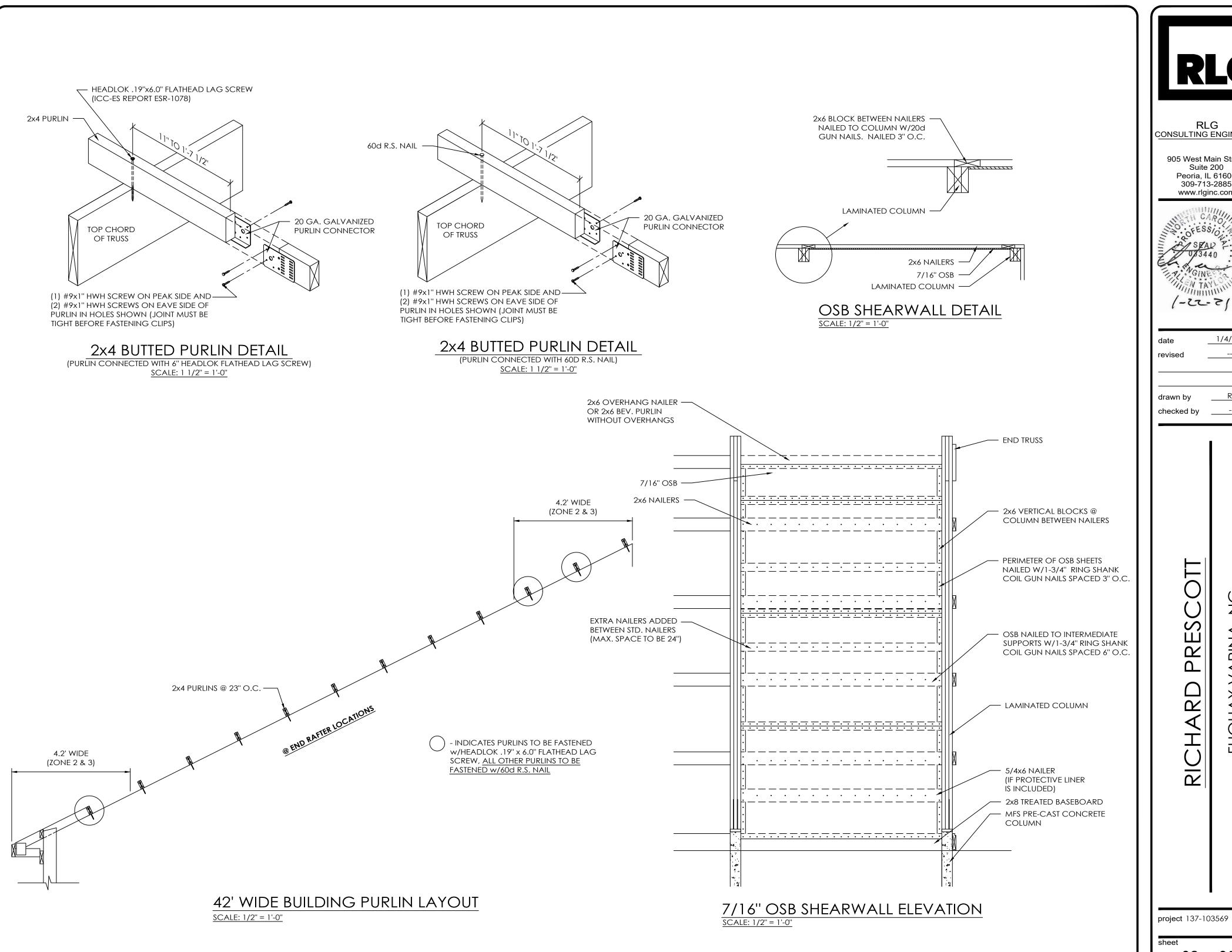
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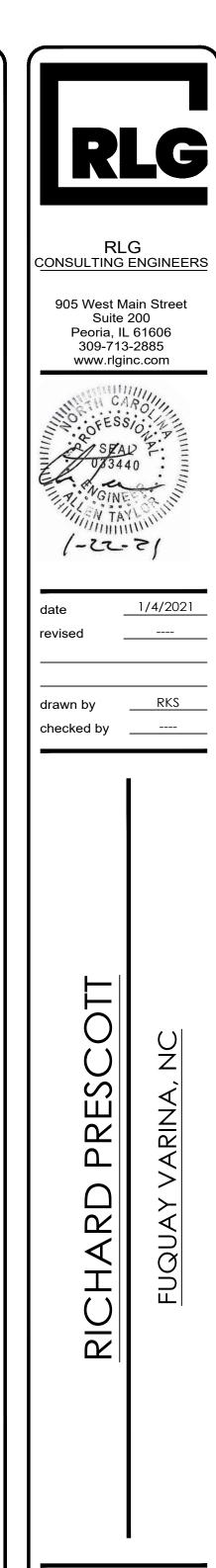
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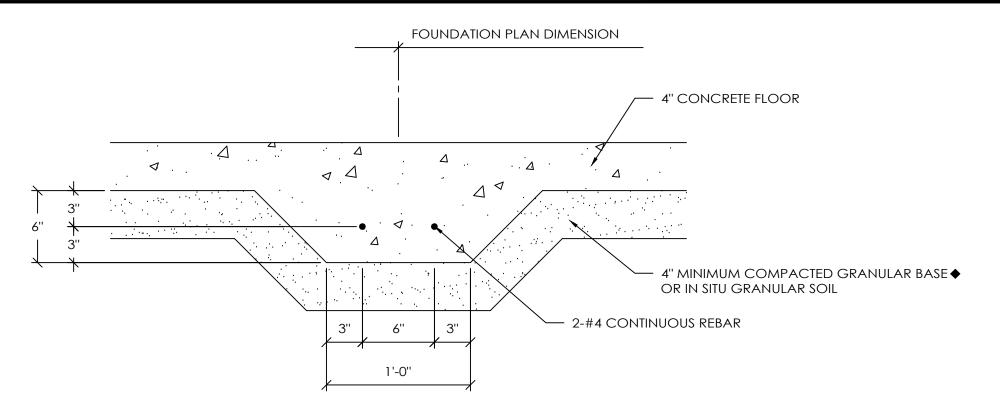
S8 OF S10

WITH 2x6 AND 1x6 BLOCKS THAT ARE 12" LONG. OHD JAMB DETAIL #3 SCALE: 1 1/2" = 1'-0"

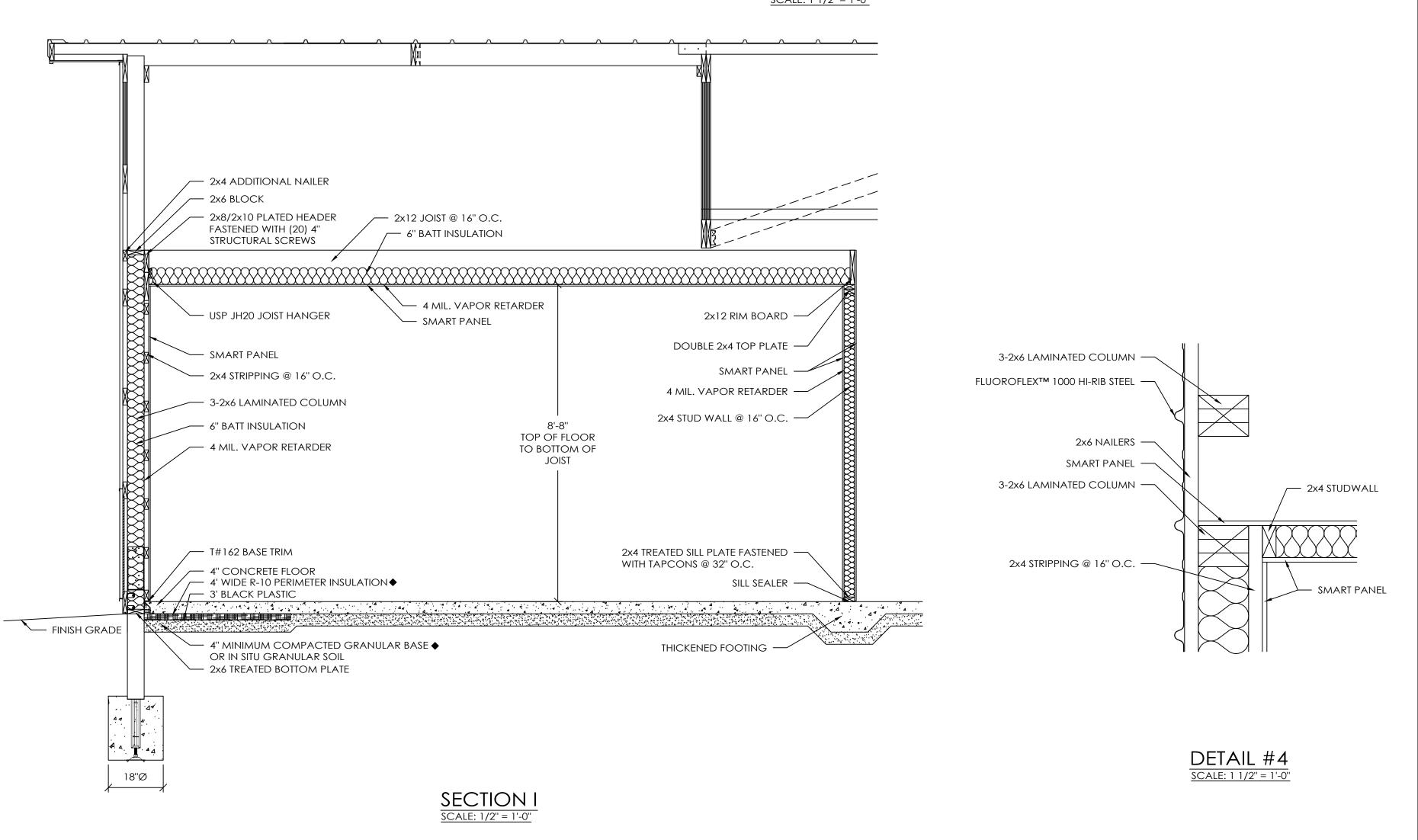


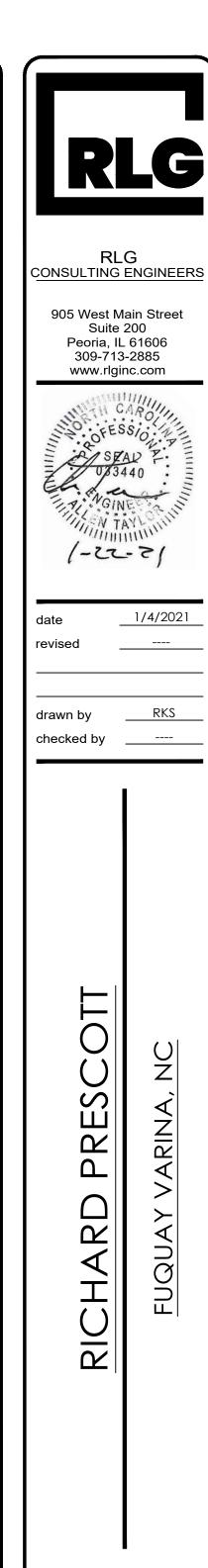


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THICKENED FOOTING SECTION SCALE: 1 1/2" = 1'-0"





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