

TRUSS UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

UPLIFT LBS.	TRUSS CONNECTOR	MASONRY	W
< 1040	META20	7-10d, 1 1/2"	
< 1490	META20	10-10d, 1 1/2"	
< 1735	HETA24	14-10d, 1 1/2"	
< 1780	LG2	7-1/4"x2 1/4" TITEN IN BLOCK 14-10d SINKER IN GIRDER	
< 1900	(2) META22	9-10d, 1 1/2" EA	
< 2130	HETA24	17-10d, 1 1/2"	
< 2310	HETA24	21-10d, 1 1/2"	
< 3965	MG1	16-10d TO TRUSS 8/8" x 4" THD ROD w/ 12" EMBEDMENT IN FILLED CELL	

Specimens are Simpson Strongtie (u.n.o.)

ONE SPECIFIC NUMBER OF FASTENERS MAY BE SPECIFIED PER SST CATALOG:

TRUSS UPLIFT LOADS

7/16" OSB ROOF SHEATHING UNBLOCKED
NAILED TO ROOF FRAMING w/
1/16" X 2 3/8" RING SHANK NAILS
@ 8" OC ON EDGES & INTERMEDIATE SUPPORTS
4" OC ON GABLES

1/2" GYP

1x2 PT FURRING

INSULATION BOARD R4

8" BOND BEAM POLURED SOLID
(3000 PSI) CONC. REIN: W/ (1)
#5 REBAR CONT. 2" FROM TOP

PRE MANUFACTURED LINTEL
TO BE SIZED BY MANUFACTURER
(ANY ROD LINTEL STEEL IS IN
ADDITION TO BOND BEAM STEEL)

APPROVED WINDOW OF
BUILDERS CHOICE

OMIT SILL FOR WINDOWS PLACED
FLUSH WITH EXTERIOR SURFACE

8" MASONRY CMU

30" MIN.
LAP SPICE

3"x3" CLEAN OUT
PORT AT EACH FILL
CELL TYPICAL

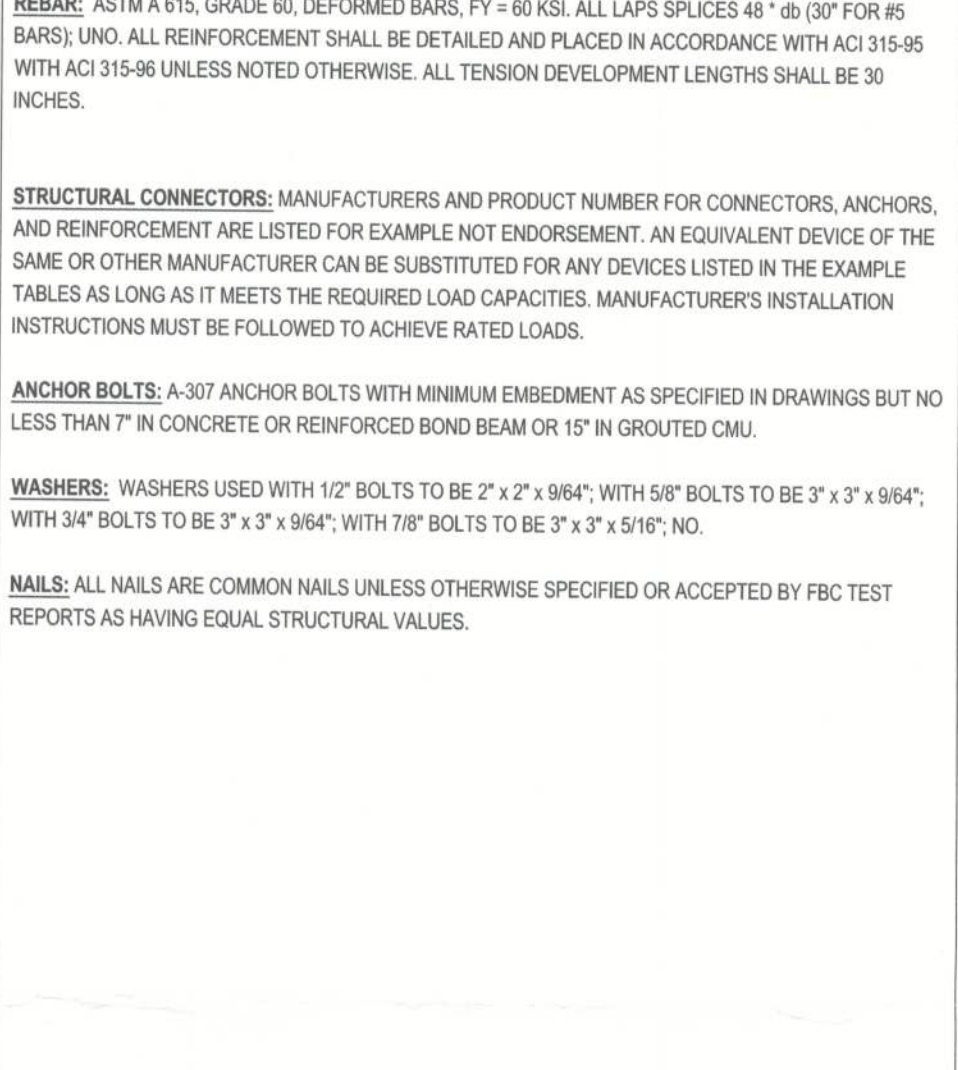
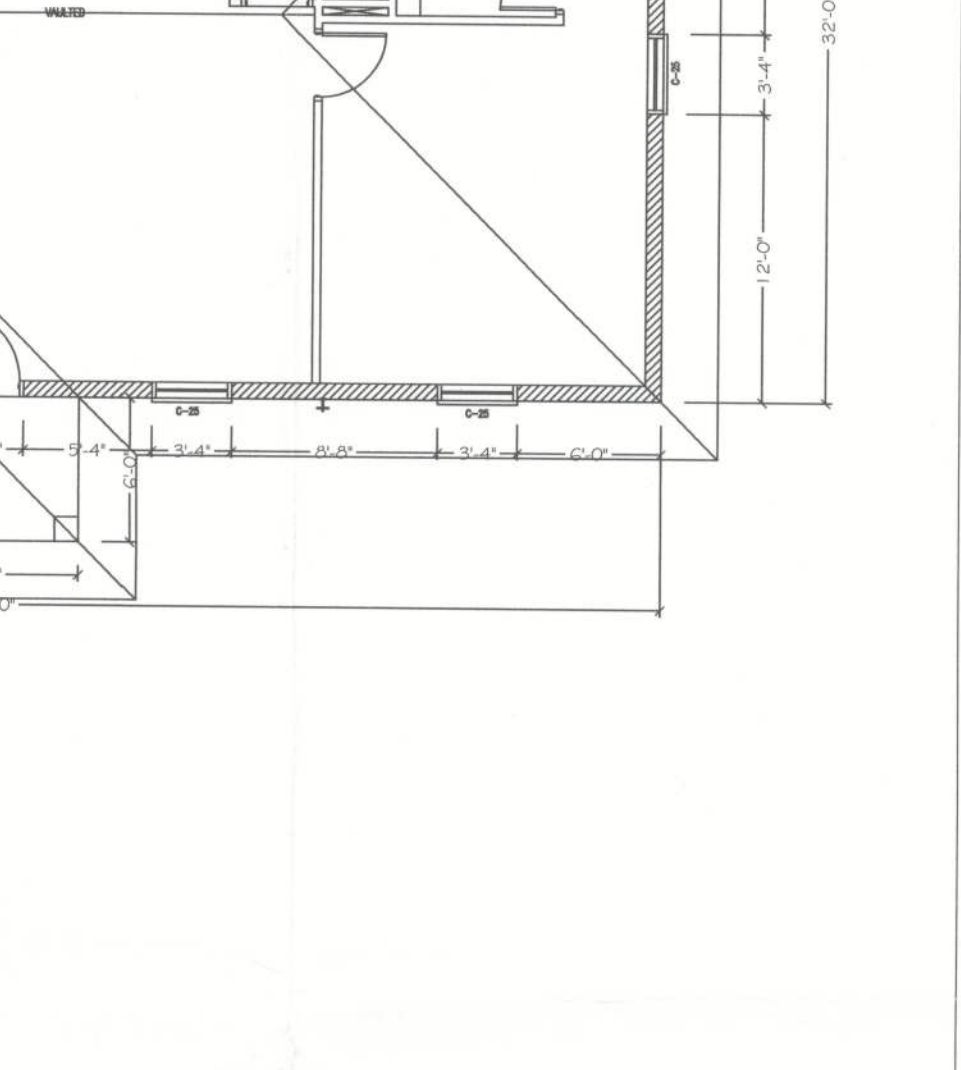
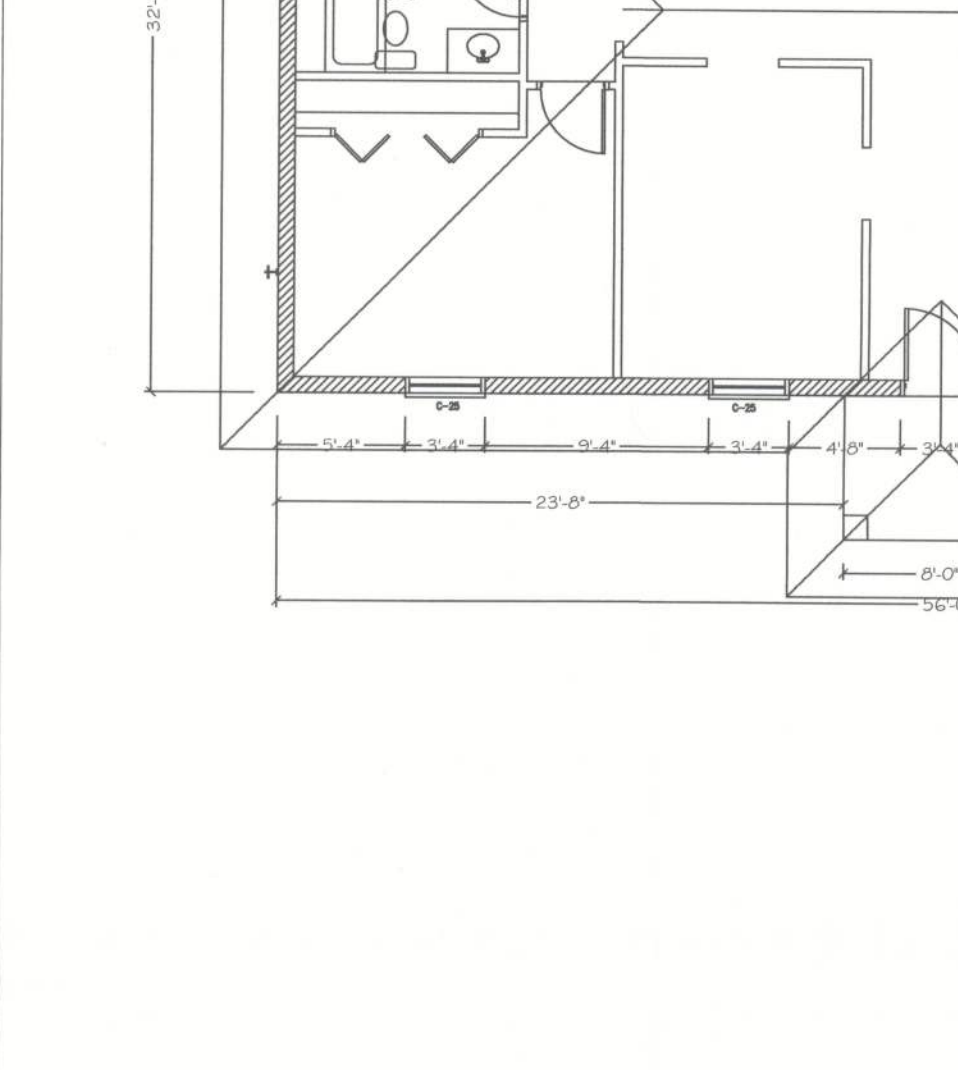
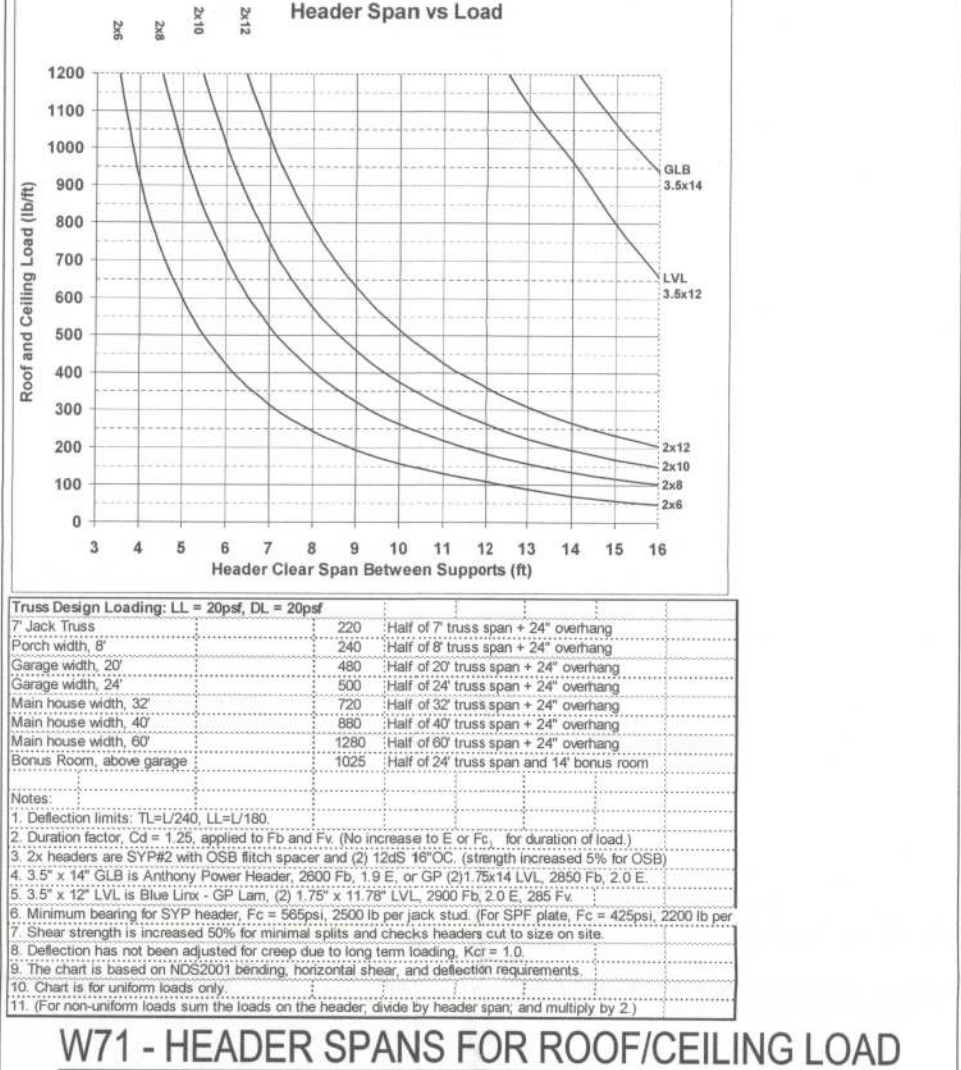
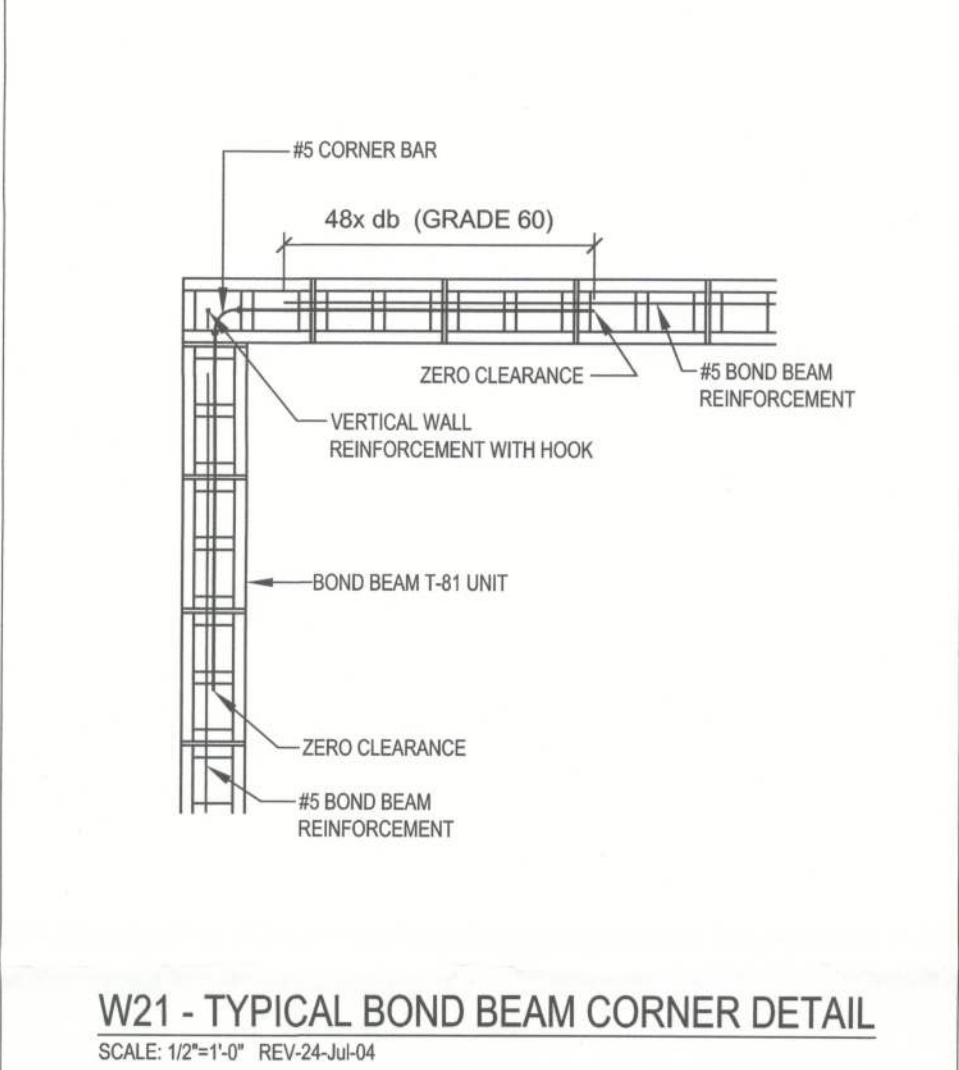
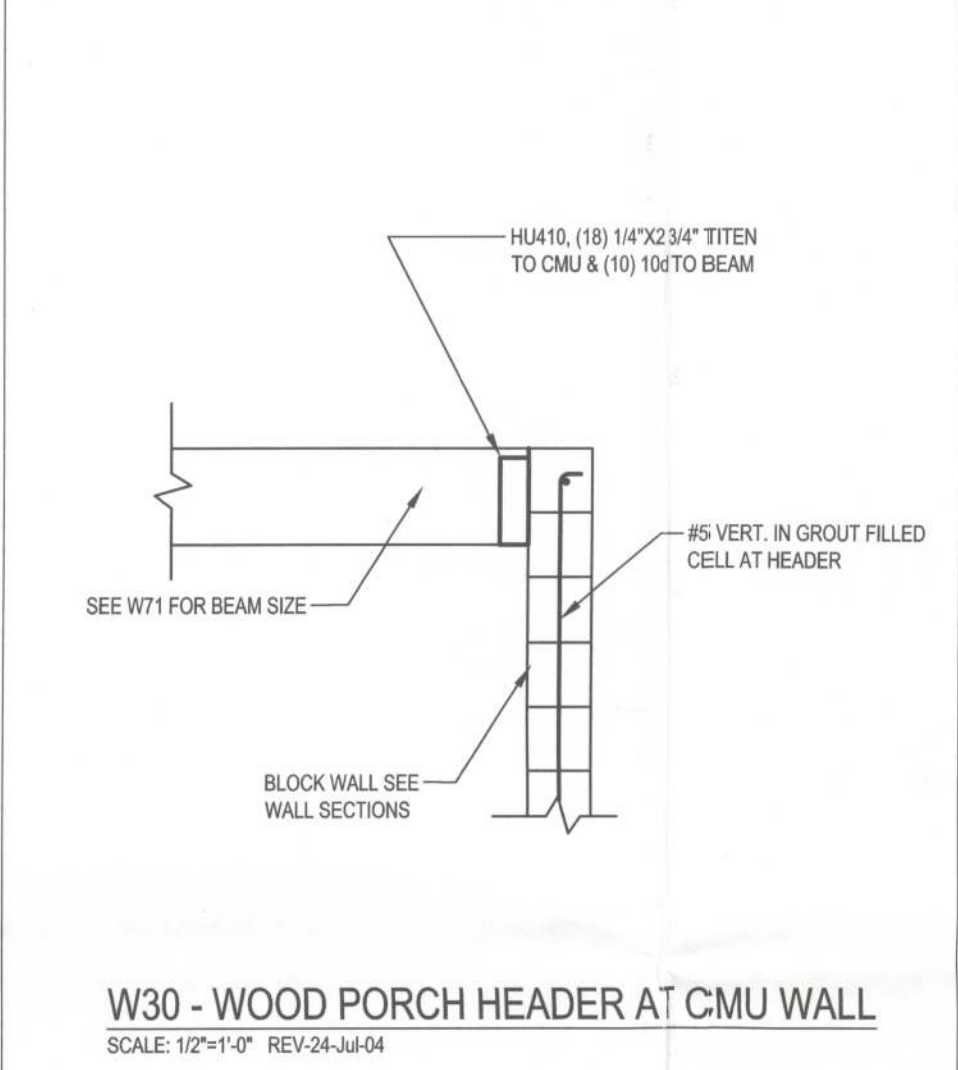
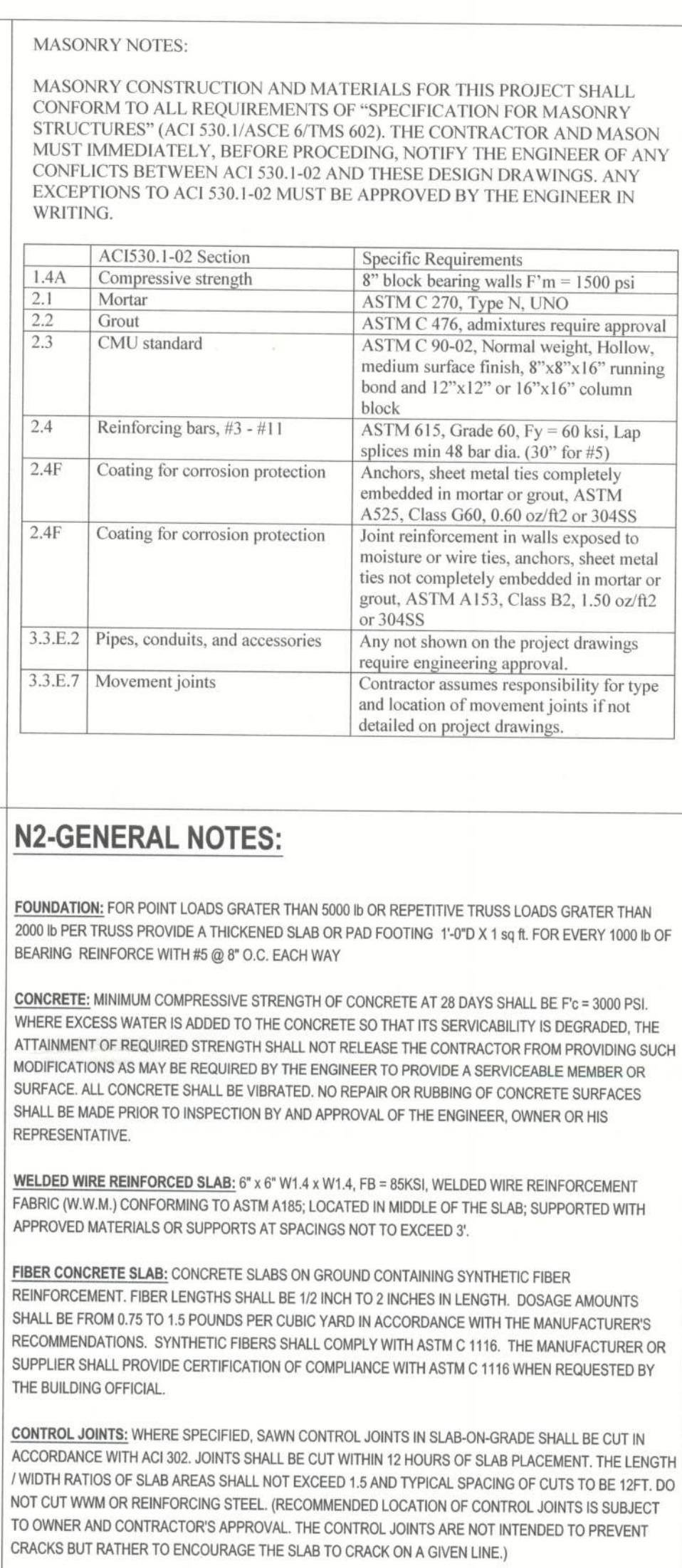
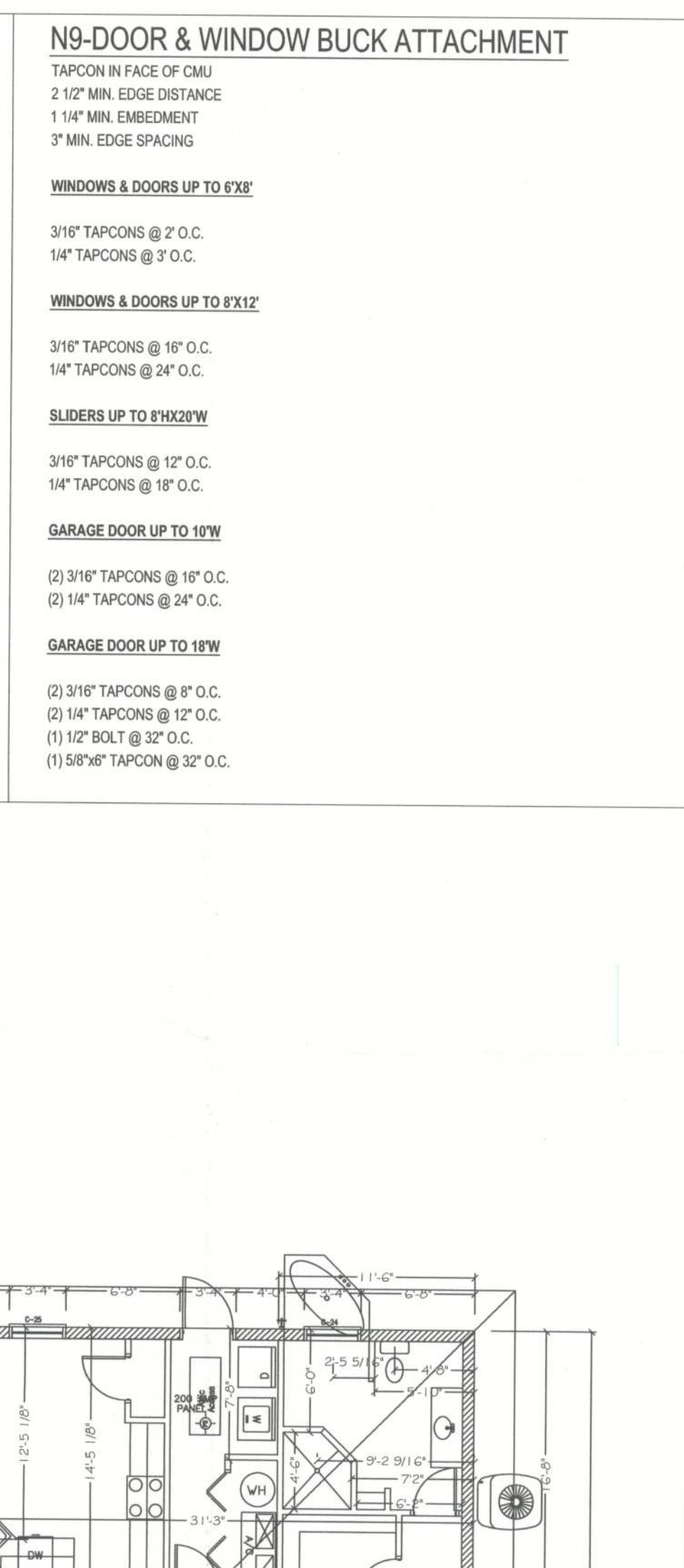
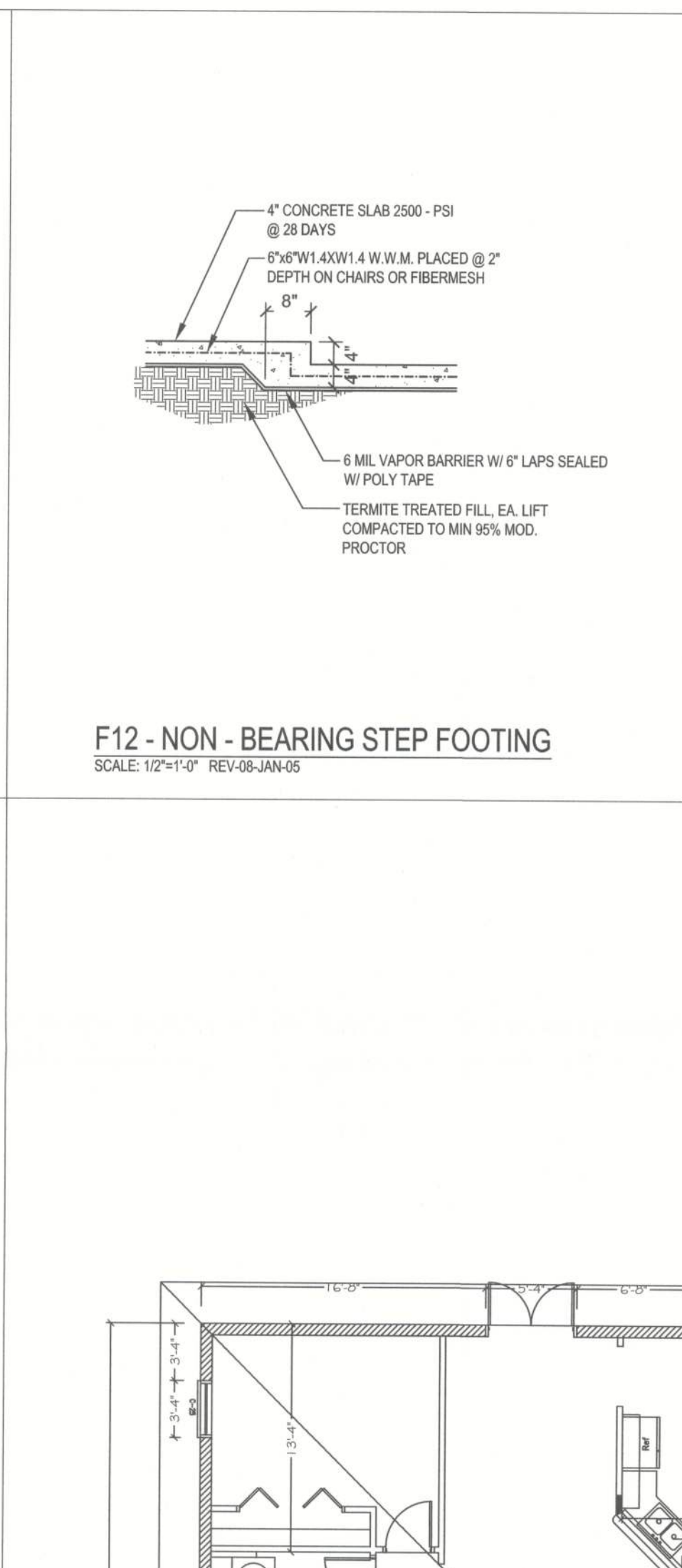
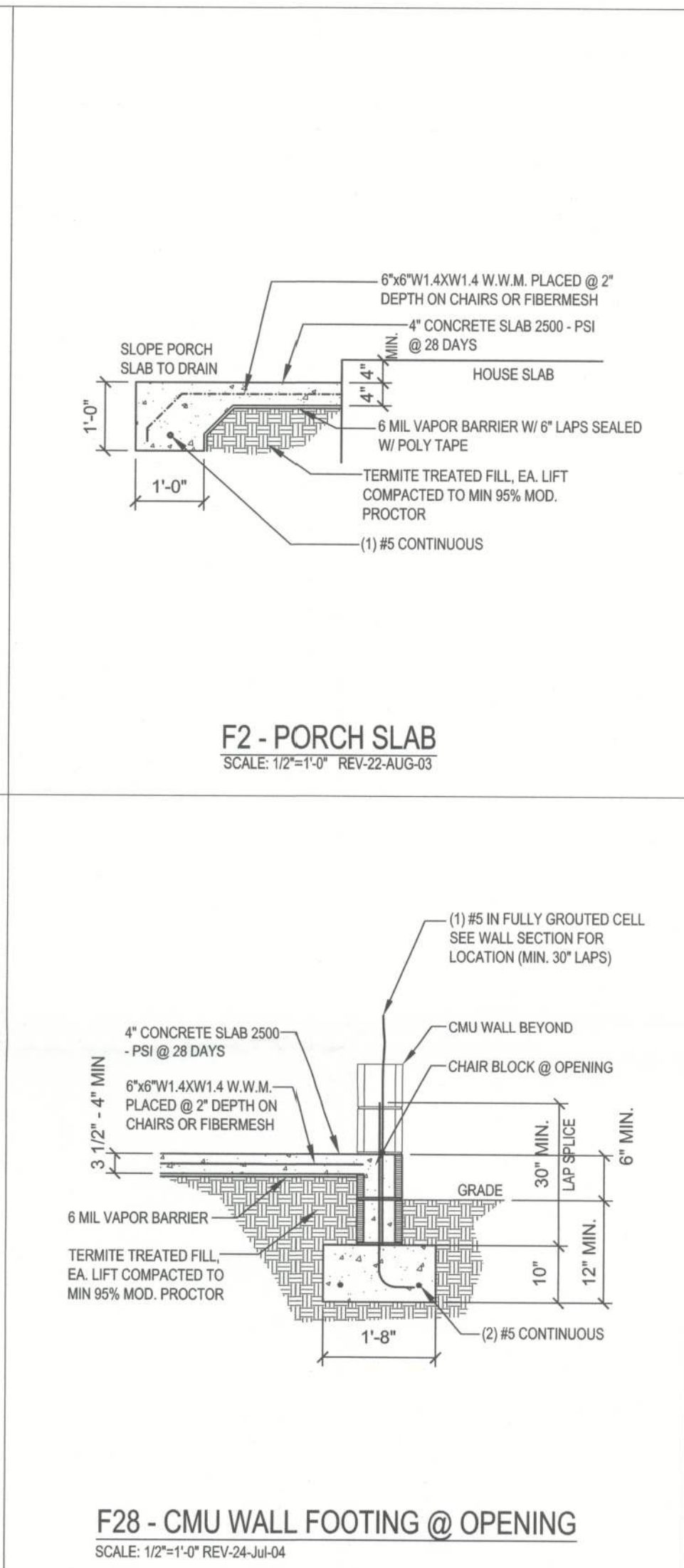
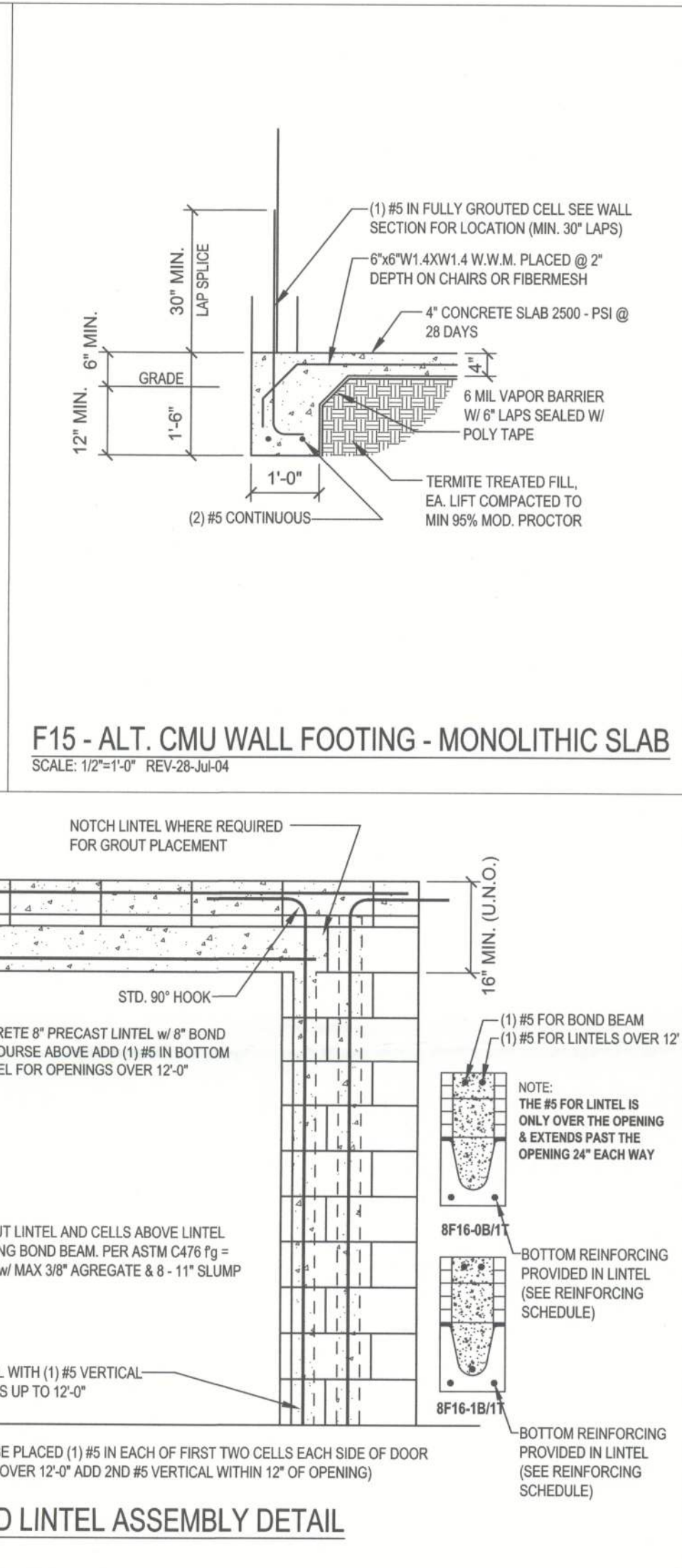
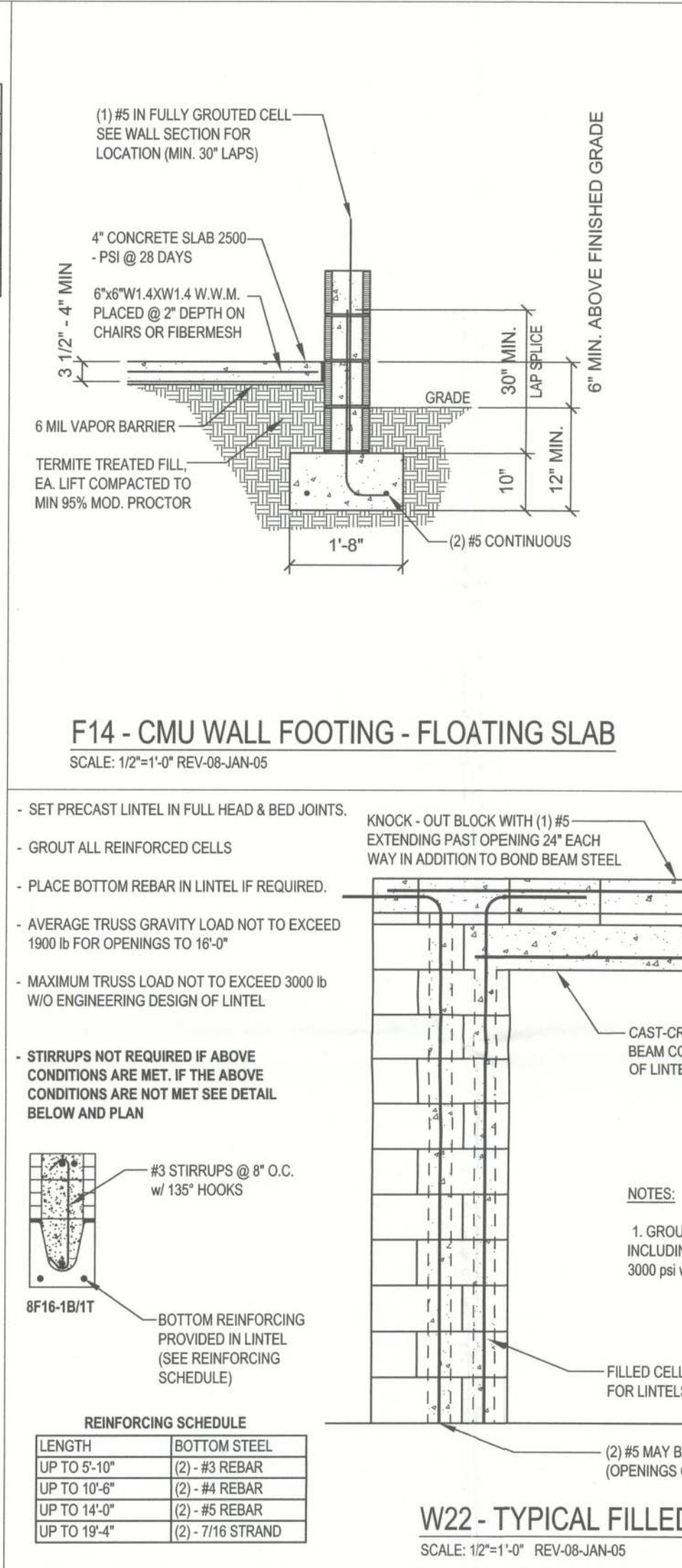
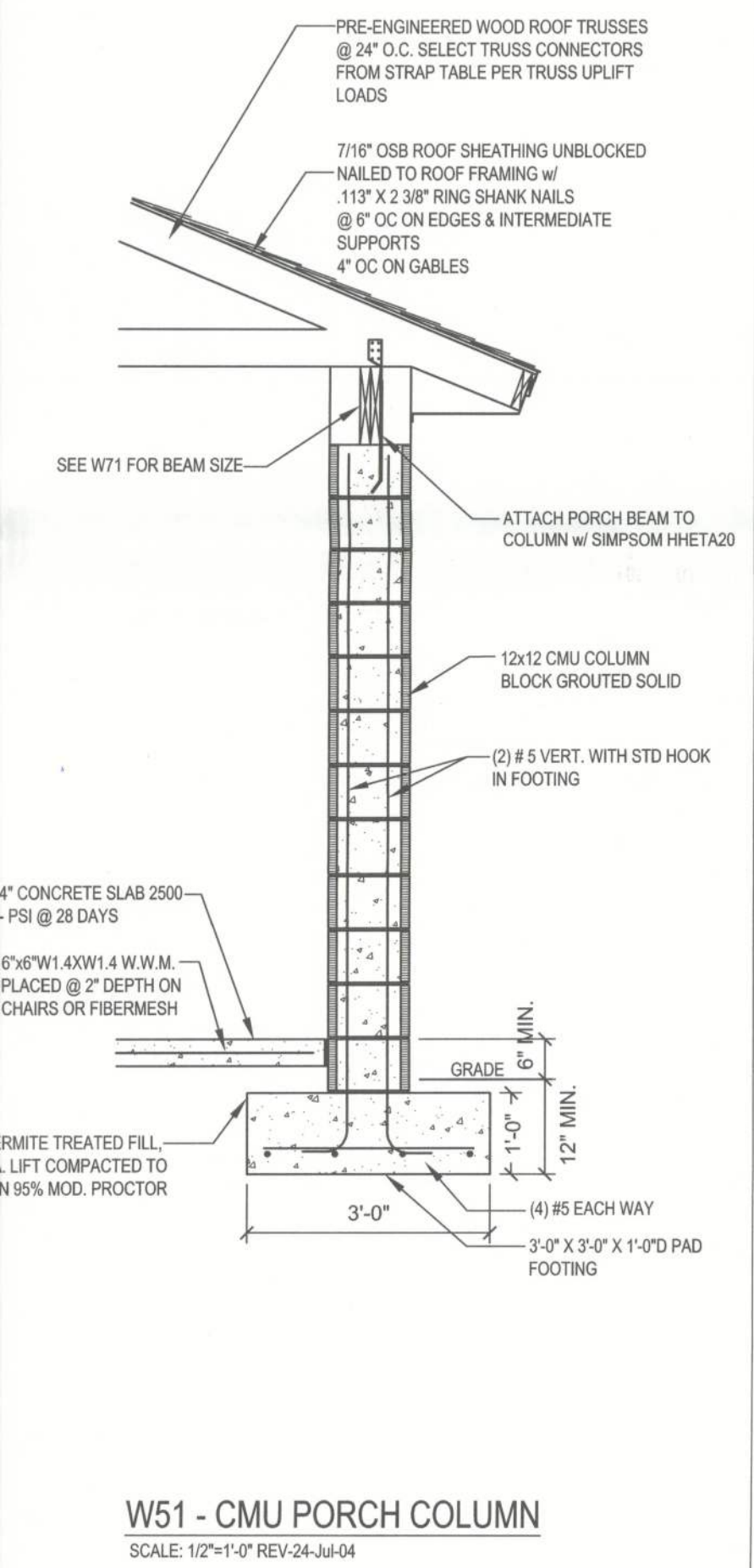
SEE FOOTING DETAILS

NOTE:
VERTICAL STEEL SHOWN ON
SECTION ASSUMES 2'-0" MAXIMUM
BELOW SLAB & 8'-0" MAXIMUM
ABOVE SLAB INCREASE VERTICAL
STEEL TO (1) #5 VERTICAL @ 4'-0" OC
FOR 3'-4" MAXIMUM BELOW SLAB &
8'-0" MAXIMUM ABOVE SLAB

(1) #5 VERT. STD HOOD HOOK TOP & BOTTOM
IN FULLY GROUTED CELL IN CORNERS,
EACH SIDE OF OPENINGS (2) #5 EACH
SIDE OF OPENING LARGER THAN 12'-0",
& 5'-4" OC

W6 - SINGLE - STORY CMU WALL SECTION

SCALE: 1/2"=1'-0" REV-08-JAN-05



N5 - TRUSS UPLIFT CONNECTOR TABLE					REV-18-NOV-24
All connectors are Simpson Strongtie, unless noted. Select top and bottom connections from this table or SST catalog to meet truss uplift. Use fasteners as specified.					
Uplift SFF	Uplift SYP	Truss Connector	To Plate	To Truss / Rather	
320	455	H3	4-8d	4-8d	
245	350	H5A	3-8d	3-8d	
535	600	H2.5A	5-8d	5-8d	
620	720	H10	6-10d $\frac{1}{2}$ "	6-10d $\frac{1}{2}$ "	
850	960	LT512	8-8d $\frac{1}{2}$ "	8-8d $\frac{1}{2}$ "	
1245	1450	HTS20	10-10d or 12-10d $\frac{1}{2}$ "	10-10d or 12-10d $\frac{1}{2}$ "	
2665	1470	H16, H16.2	10-10d $\frac{1}{2}$ "	2-10d $\frac{1}{2}$ "	
1785	2050	LG22	14-10d Sinker	16-10d Sinker	
3655	4200	MG2	$\frac{5}{8}$ " Thd Rod	22-10d	
SFF SYP	SYP	Strap Connector	To One Member		To Other Member
760	885	SP4	6-10d $\frac{1}{2}$ "	N/A	
865	1005	CS20	9-8d or 1-10d	9-8d or 1-10d	
1085	1265	LSTA18-24	7-10d	7-10d	
1170	1360	SP14	12-10d $\frac{1}{2}$ "	7-10d	
450	425	SSP	4-10d	3-10d to double plate or 1-10d to single	
600	625	SSP	8-10d	3-10d to double plate or 2-10d to single	
1420	1660	CS16	14-8d or 11-10d	14-8d or 11-10d	
SFF SYP	SYP	Column Anchor	To Foundation		To Column / Truss
1160	1330	LT118	$\frac{3}{4}$ " 16'AB	8-16d Sinker	
1885	2310	LT1313	$\frac{3}{4}$ " 16'AB	18-10d $\frac{1}{2}$ "	
2385	2775	HD2A	$\frac{3}{4}$ " 16'AB	2 $\frac{1}{2}$ " Bolts	
3590	4175	HT116	$\frac{3}{4}$ " 16'AB	18-16d	
1975	2300	ABU66	$\frac{3}{4}$ " 16' AB	12-16d	

(Note: SFF = Single Fastener Footing; SYP = Single Y-Plate Footing; AB = Anchor Bolt; HT = Heavy Truss; LG = Light Gauge; LSTA = Light Steel Truss Anchor; MG = Metal Gable; SP = Strap; CS = Column Strap; SS = Strap Sinker; HTS = Heavy Truss Sinker; H = Heavy; H2.5 = Heavy 2.5; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT = Light Truss; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2; LG22 = Light Gauge 22; LT512 = Light Truss 512; LT118 = Light Truss 118; LT1313 = Light Truss 1313; MG2 = Metal Gable 2; SP4 = Strap 4; SP14 = Strap 14; SSP = Strap Sinker; CS20 = Column Strap 20; CS16 = Column Strap 16; HTS20 = Heavy Truss Sinker 20; H3 = Heavy 3; H5A = Heavy 5A; H2.5A = Heavy 2.5A; H10 = Heavy 10; H16 = Heavy 16; H16.2 = Heavy 16.2

N4-WIND LOAD DESIGN DATA

WIND LOADS PER 2010 FLORIDA BUILDING CODE RESIDENTIAL, SECTION R301.2.1	
Basic Wind Speed	130 MPH
Wind Exposure	C
Wind Importance Factor	1.0
Risk Category	II (MRI = 700 YR)
Internal pressure Coefficient	N/A (Enclosed)
Building not in the high velocity hurricane zone	
Building not in the wind-borne debris region	
Mean Roof Height	< 30 ft
Roof Angle	10-45 degrees
Components And Cladding Wind Pressures (2010 FBC)	

Zone		Effective Wind Area (ft²)	
		10	
4	43	-46	
5	43	-57	

	Transverse	Longitudinal
Required	25.5'	20.0'
Actual	57.3'	80.0'

WINDLOAD ENGINEER'S SCOPE OF WORK: The wind load engineer is engineer of record for compliance of the stated wind load requirements of 2010 FBC. If trusses are used, the wind load engineer is not engineer of record for the trusses and did not design the trusses or delegate to the truss designer.

BUILDER'S RESPONSIBILITY: The builder and owner are responsible for the following, which are specifically not part of the wind load engineer's scope of work:

- Confirm that the foundation design is safe conditions meet gravity load requirements (assume 1500 PSF bearing capacity unless visual observation or soil test proves otherwise)
- Provide materials and construction techniques, which comply with 2010 FBC requirements for the stated wind velocity and design pressures.
- Provide a continuous load path from roof to foundation. If you believe the plan omits a continuous load path connection, call the wind load engineer immediately.
- Verify the truss engineering includes truss design, placement plans, temporary and permanent bracing details, truss-to-truss connections, and load reactions for all bearing locations.
- Select upper connections, walls, columns, and footings based on truss engineering bearing locations and reactions, including internal bearing walls.
- Size headers for gravity loads; headers sized by the builder for gravity loads will also satisfy wind loads.

SPECIFIC CONTROL AND PRIORITY: Structural requirements on S-1 control unless the building code or architectural sheets have more stringent requirements. Non-structural requirements on architectural sheets control. Specific requirements take precedence over general requirements. Revision control by the latest signature date and is the responsibility of the builder.

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DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Diskoway, P.E. for resolution. Do not proceed without clarification.

WINDLOAD ENGINEER: Mark Diskoway, PE No.53915

CERTIFICATION: The attached plans and "Windload Engineering", sheet S-1, comply with R301.2.1, 2010 FBC, wind loads, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location. This drawing is not valid for construction unless raised seal is affixed.

<h1 style="margin: 0;">WINDLOAD ENGINEERING</h1> <p style="margin: 5px 0;">"EVERYTHING YOU NEED FOR YOUR BUILDING PERMIT"</p> <p style="margin: 10px 0;">Mark Disosway P.E.</p> <p style="margin: 5px 0;">POB 868, Lake City, FL 32056 Phone: (386) 754-5419</p> <p style="margin: 5px 0;">Fax: (386) 269-4871 Email: windloadengineer@bellsouth.net</p>	
Location: Lot 16 Saddle Brook Estates Union County, Florida	
Randy Randolph Residence	
Builder: House Craft Homes	
Designer: House Craft Homes	
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <p>APPROVED</p> <p>NO. 53815</p> <p>STATE OF FLORIDA</p> </div>	<div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center; color: green;"> <p>UNION COUNTY BUILDING DEPARTMENT</p> <p>Received for</p> <p style="font-size: 1.2em; font-weight: bold;">FILE COPY</p> <p>Code Compliance</p> <p>PLANS EXAMINER</p> </div>
Revisions:	
<h2 style="margin: 0;"><u>Sheet S-1 of 1 Sheet</u></h2> <p style="margin: 5px 0;">Windload Engineering</p>	