

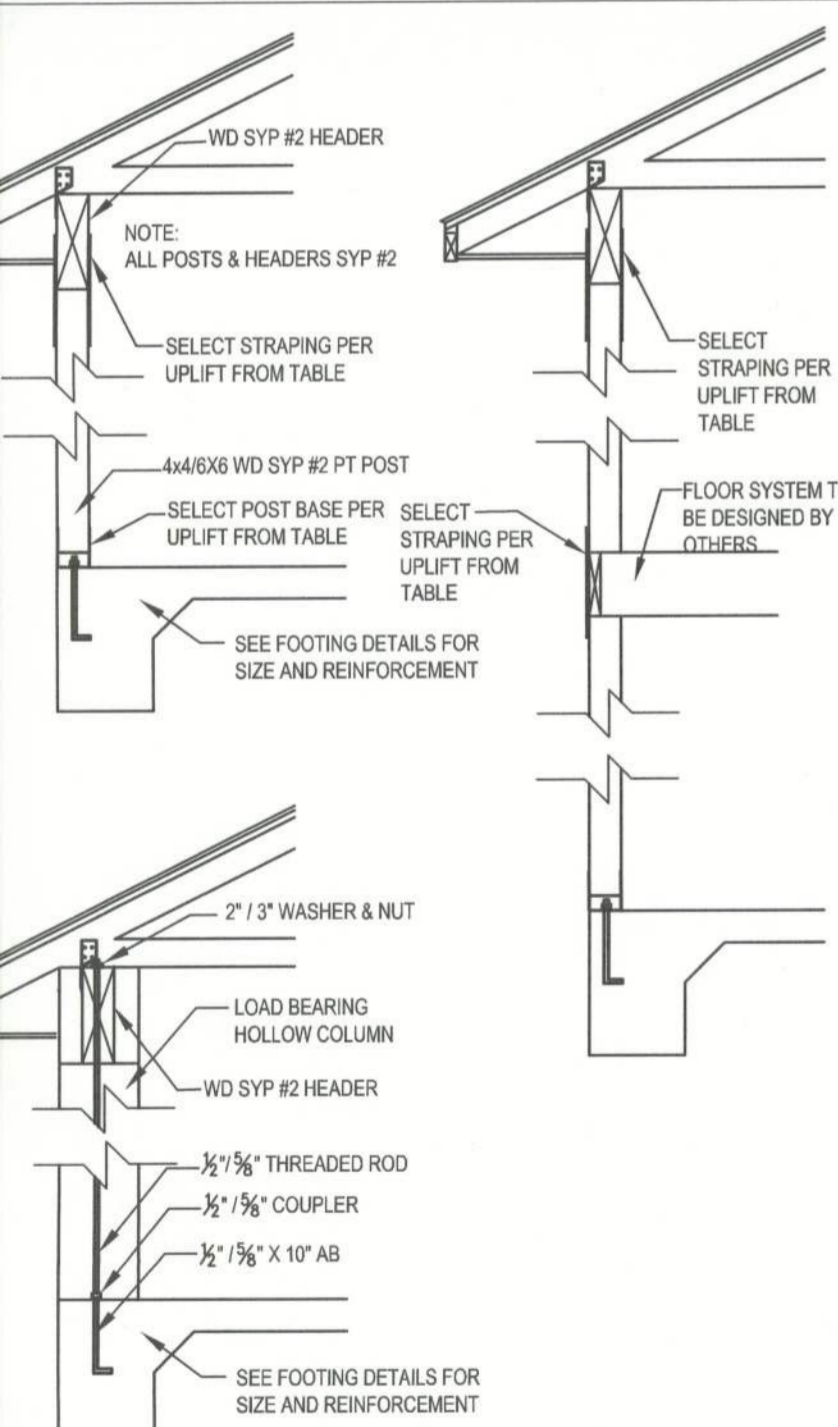
STUD ANCHOR TABLE				
TYPICAL TRUSS UPLIFT & MAX 10'-0" WOOD HEIGHT	ANCHOR BOLT SPACING	SP4/SP6 SPACING	ALTERNATE SP4/SP6 SPACING	
770 LB	48" O.C.	48" O.C.	N/A	
980 LB	48" O.C.	32" O.C.	N/A	
1270 LB	32" O.C.	16" O.C.	32" O.C.	
1500 LB	24" O.C.	16" O.C.	16" O.C.	
2200 LB	LTT10 W/ 5/8" X 7" WOOD ANCHOR	N/A	21" HTSD N/ALED TO STUD PACK	

NOTE: SP2 TOP & SP1 BOTTOM ALTERNATE FOR SP4/6

NOTE:

MINIMUM ANCHOR BOLT SPACING FOR WALLS WITH A HEIGHT GREATER THAN 10'-0" AND LESS THAN 14'-0" SHALL BE 32" O.C.

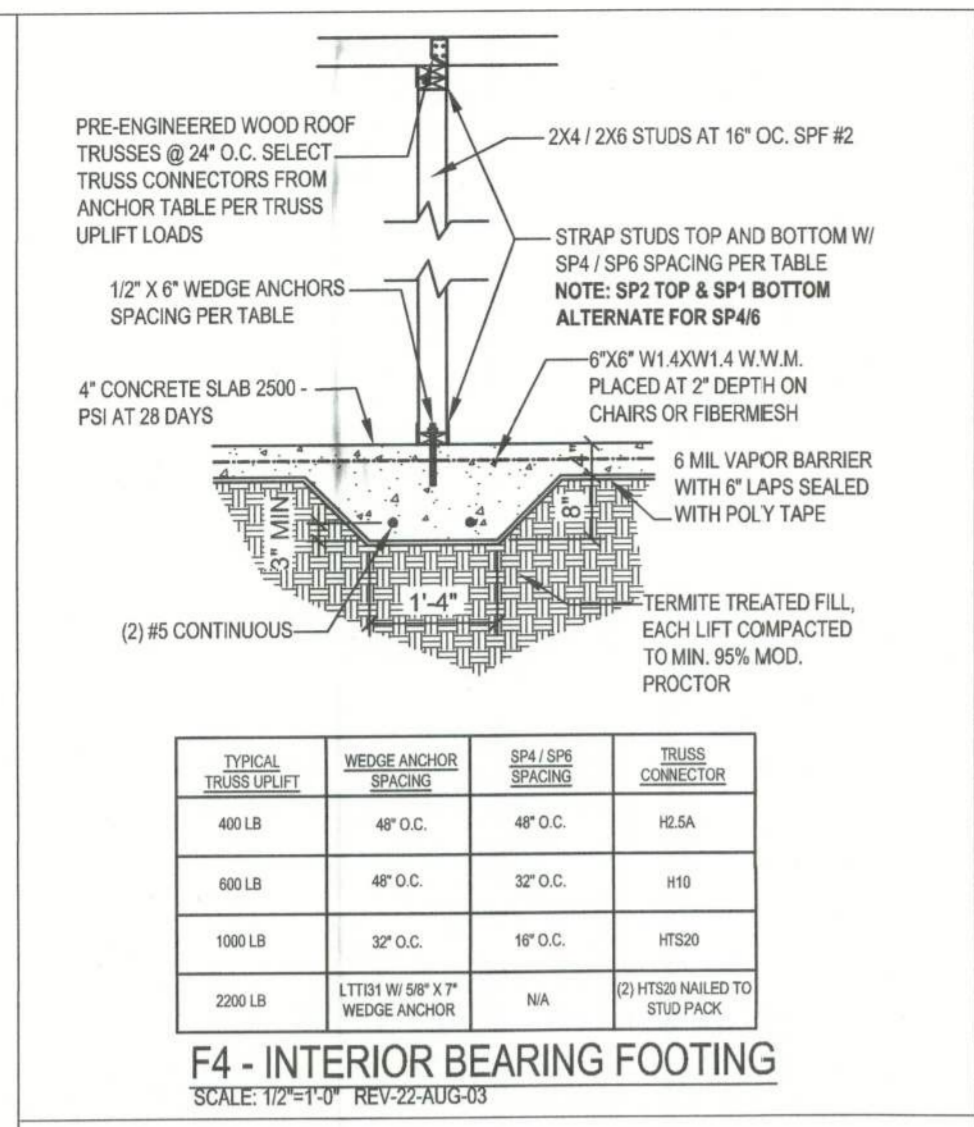
W1 - SINGLE STORY EXT. WALL SECTION
SCALE: 1/2\"/>



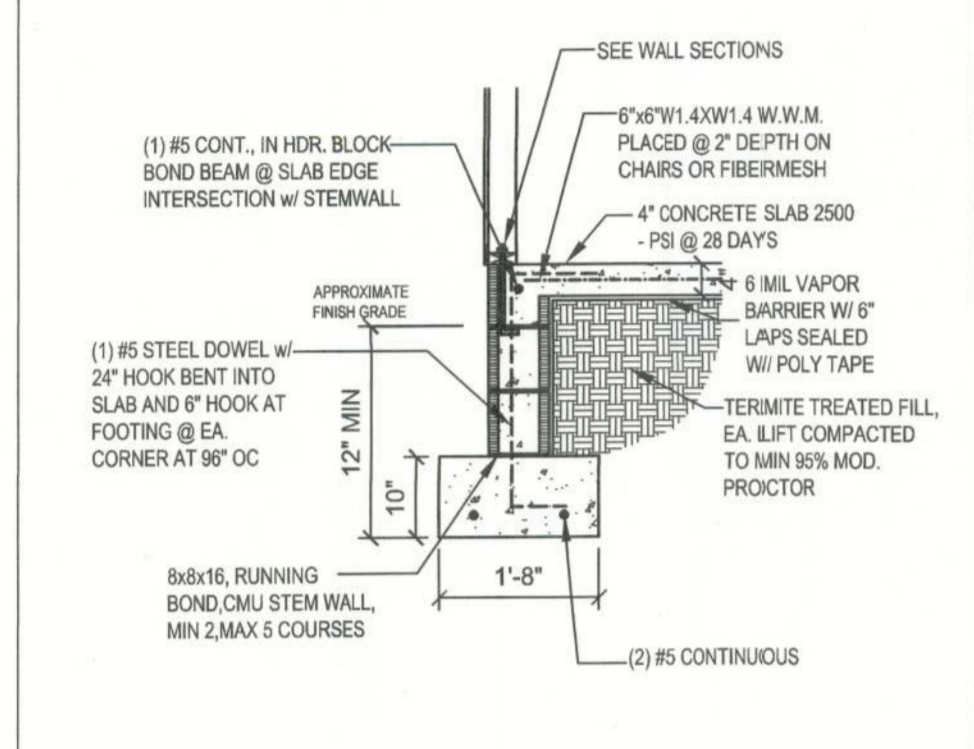
SYP #2 PF WD POSTS			
TYPICAL POST UPLIFT	POST BASE ANCHOR	BETWEEN FLOOR STRAPPING	HEADER STRAPPING
555 LB	AB44 W/ (6)-10d & 1/2" EA	(2) LST421 W/ (8)-10d EA	(2) LST421 W/ (8)-10d EA
720 LB	AB48 W/ (8)-10d & 5/8" EA	(2) LST421 W/ (8)-10d EA	(2) LST421 W/ (8)-10d EA
2200 LB	AB44 W/ (12)-16d & (3) BOLTS S & (4) BOLTS N	(2) LST421 W/ (16)-10d EA	(2) LST421 W/ (16)-10d EA
2300 LB	AB48 W/ (12)-16d & (3) BOLTS S & (4) BOLTS N	(2) LST421 W/ (16)-10d EA	(2) LST421 W/ (16)-10d EA

HOLLOW COLUMN			
1500 LB	3/4" X 10" AB ATTACHED TO 3/4" THREADED ROD WITH 3/4" COUPLER THRU COLUMN HANGER WITH 7/8" WASHER & NUT TOP		
2300 LB	3/4" X 10" AB ATTACHED TO 3/4" THREADED ROD WITH 3/4" COUPLER THRU COLUMN HANGER WITH 7/8" WASHER & NUT TOP		

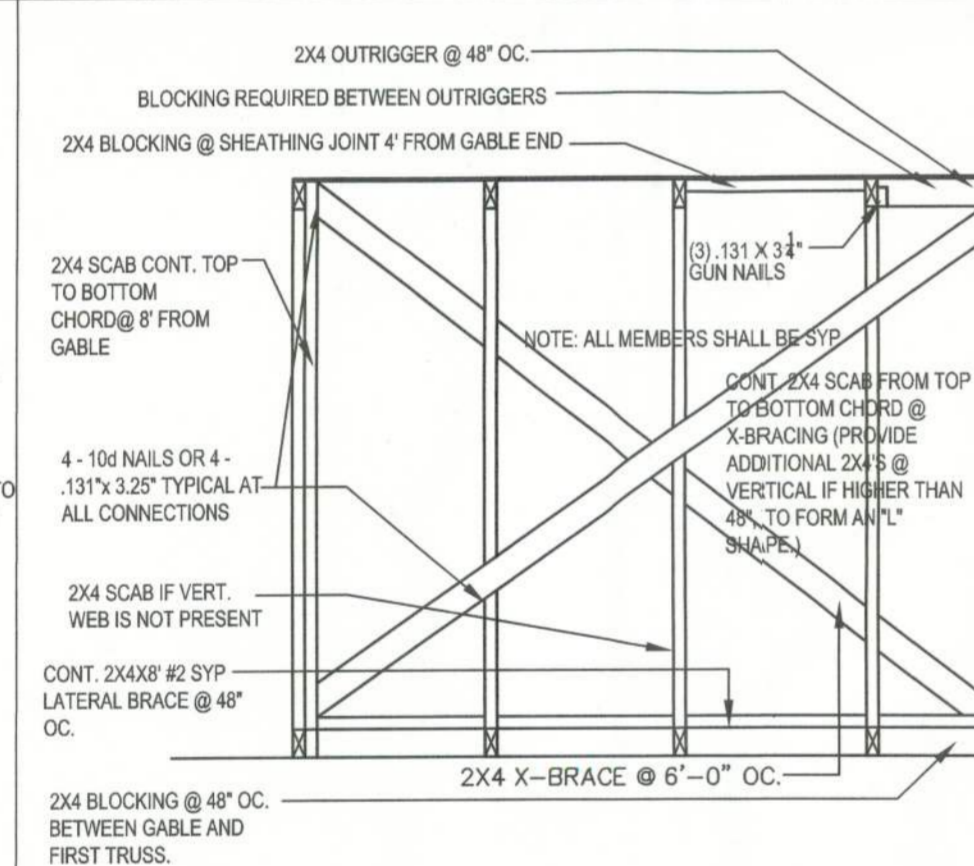
W12 - PORCH HEADER ANCHORS
SCALE: N.T.S. REV-18-JUL-03



F4 - INTERIOR BEARING FOOTING
SCALE: 1/2\"/>



F1 - STEM WALL FOUNDATION
SCALE: 1/2\"/>



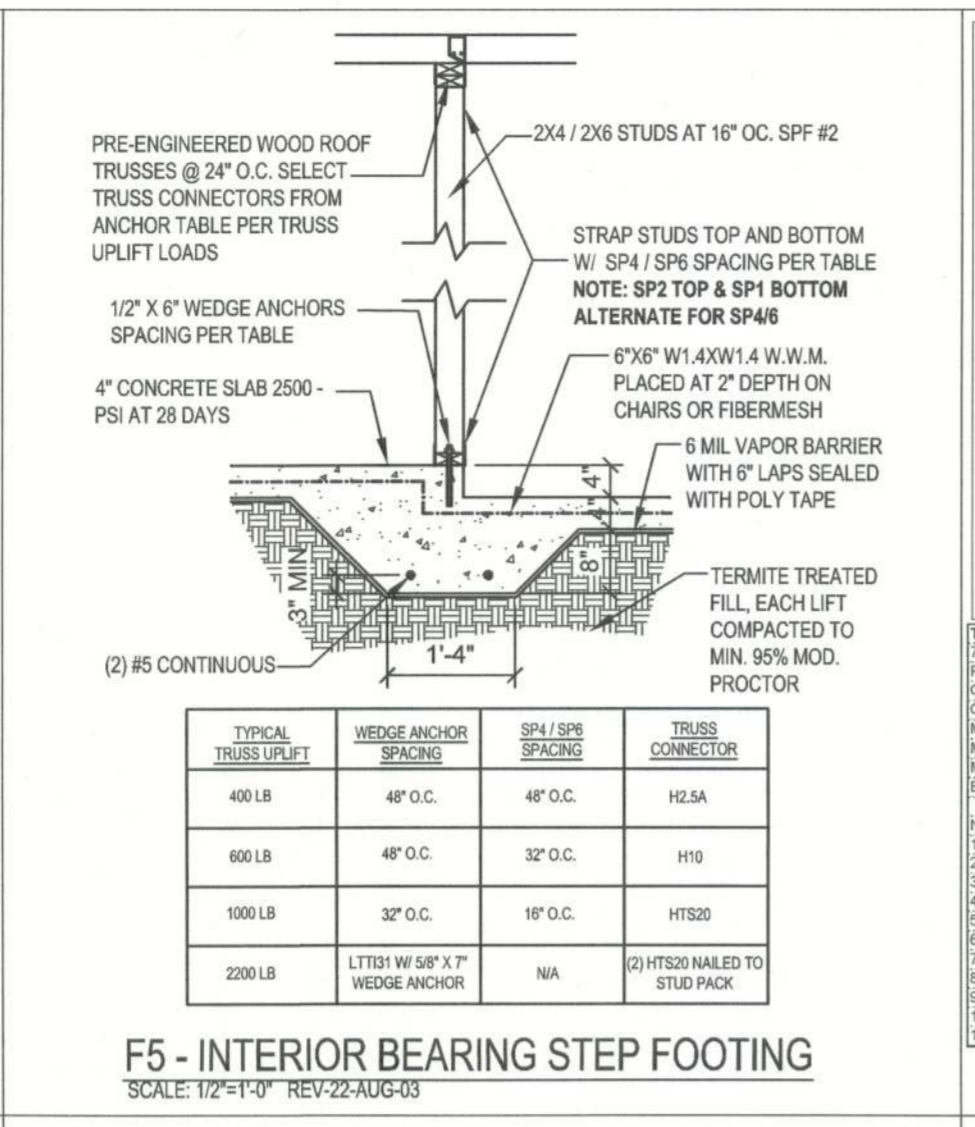
W10 - TYPICAL GABLE END (X-BRACING)
SCALE: 1/2\"/>

SYP #2 PF POSTS			
TYPICAL POST UPLIFT	POST BASE ANCHOR	BETWEEN FLOOR STRAPPING	HEADER STRAPPING
555 LB	AB44 W/ (6)-10d & 1/2" L1512	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.
720 LB	AB48 W/ (8)-10d & 5/8" L1512	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.
2200 LB	AB44 W/ (12)-16d & (3)-10d L1512 & (4)-10d	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.
2300 LB	AB48 W/ (12)-16d & (3)-10d L1512 & (4)-10d	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.

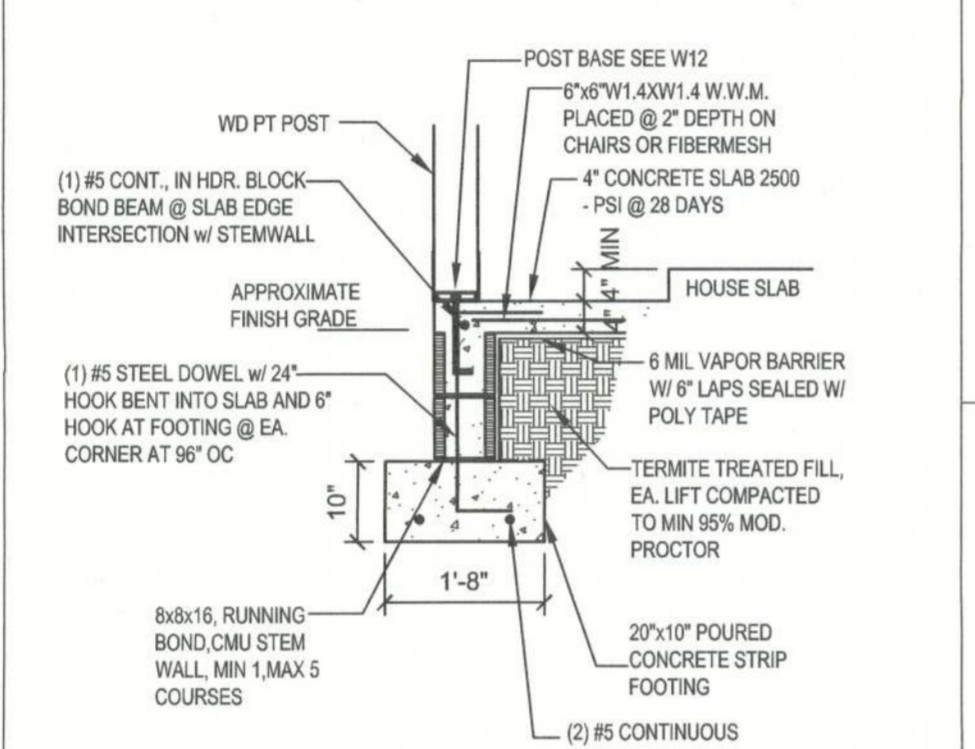
HOLLOW COLUMN

SPF	SYP	Column Anchor	To Foundation	To Column / Truss
1160	1350	LTT119	3/4" L1512	3/4" L1512
1885	2310	LTT131	3/4" L1512	3/4" L1512
2385	2775	HD2A	3/4" L1512	3/4" L1512
3590	4175	HTT16	3/4" L1512	3/4" L1512
1975	2300	ABU66	3/4" L1512	3/4" L1512

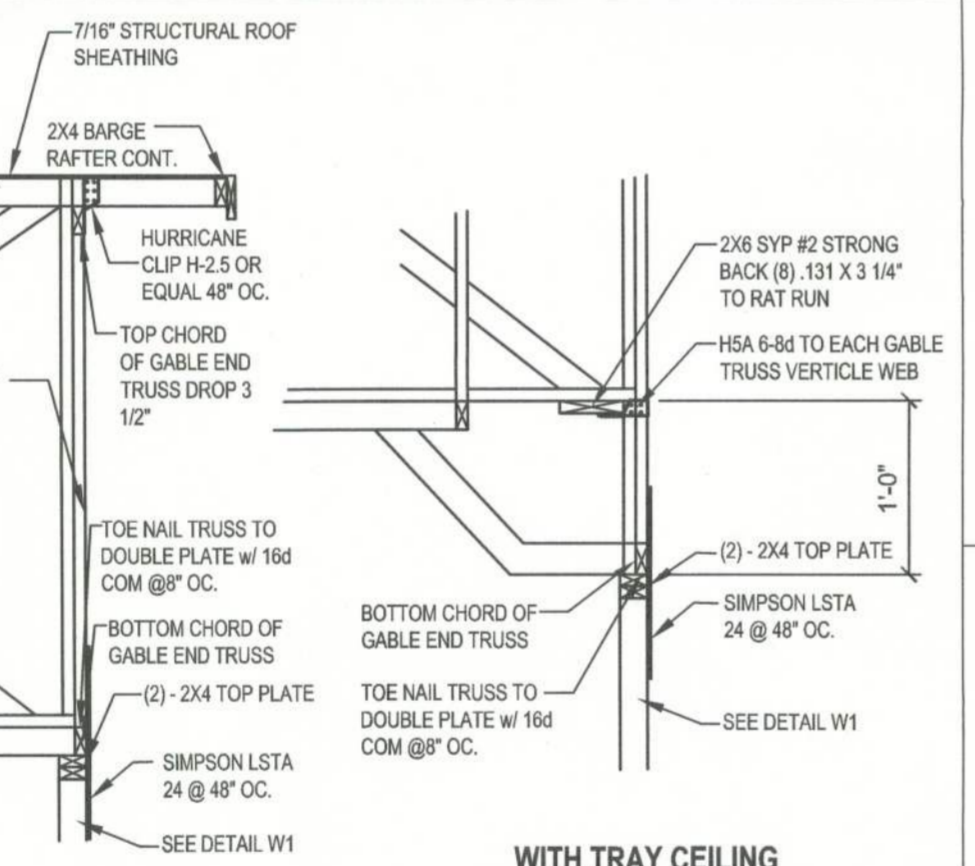
W12 - PORCH HEADER ANCHORS
SCALE: N.T.S. REV-18-JUL-03



F5 - INTERIOR BEARING STEP FOOTING
SCALE: 1/2\"/>



F10 - STEM WALL PORCH FOOTING
SCALE: 1/2\"/>



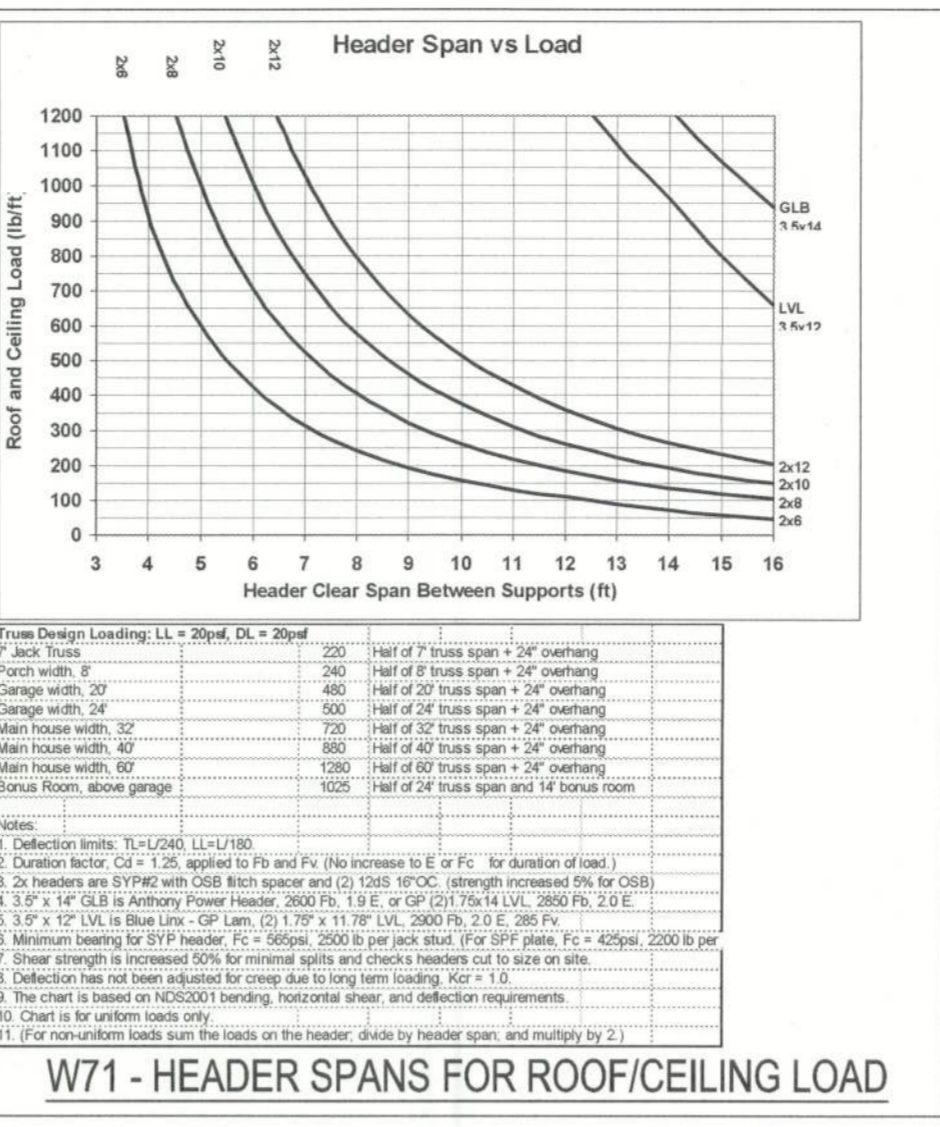
W10 - TYPICAL GABLE END (X-BRACING)
SCALE: 1/2\"/>

SYP #2 PF POSTS			
TYPICAL POST UPLIFT	POST BASE ANCHOR	BETWEEN FLOOR STRAPPING	HEADER STRAPPING
555 LB	AB44 W/ (6)-10d & 1/2" L1512	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.
720 LB	AB48 W/ (8)-10d & 5/8" L1512	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.
2200 LB	AB44 W/ (12)-16d & (3)-10d L1512 & (4)-10d	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.
2300 LB	AB48 W/ (12)-16d & (3)-10d L1512 & (4)-10d	(2) LST421 W/ (16)-10d EA.	(2) LST421 W/ (16)-10d EA.

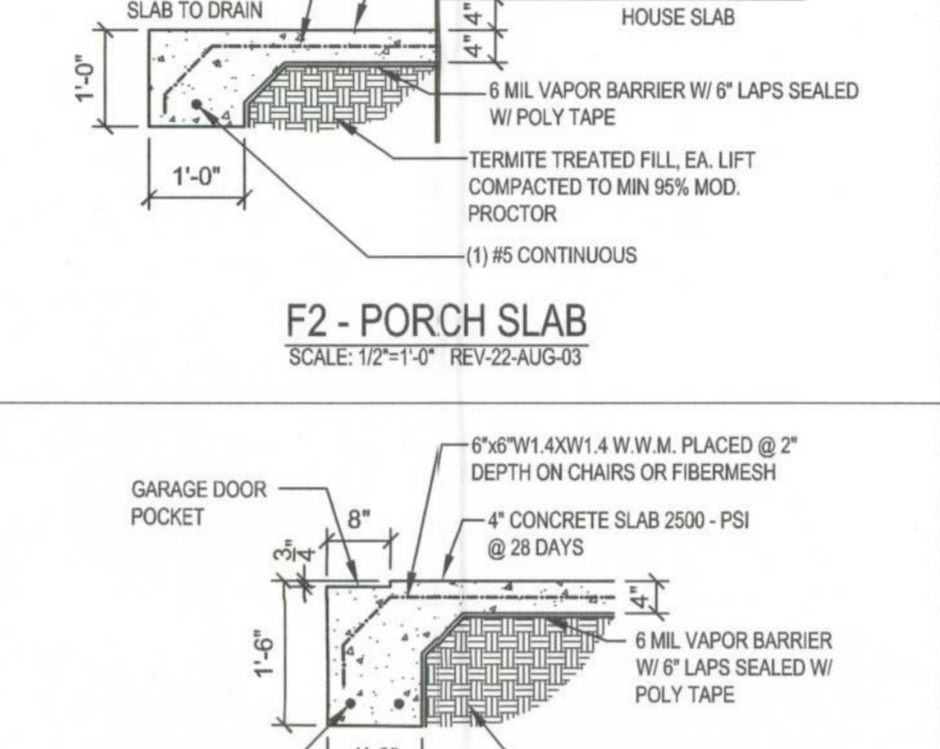
HOLLOW COLUMN

SPF	SYP	Column Anchor	To Foundation	To Column / Truss
1160	1350	LTT119	3/4" L1512	3/4" L1512
1885	2310	LTT131	3/4" L1512	3/4" L1512
2385	2775	HD2A	3/4" L1512	3/4" L1512
3590	4175	HTT16	3/4" L1512	3/4" L1512
1975	2300	ABU66	3/4" L1512	3/4" L1512

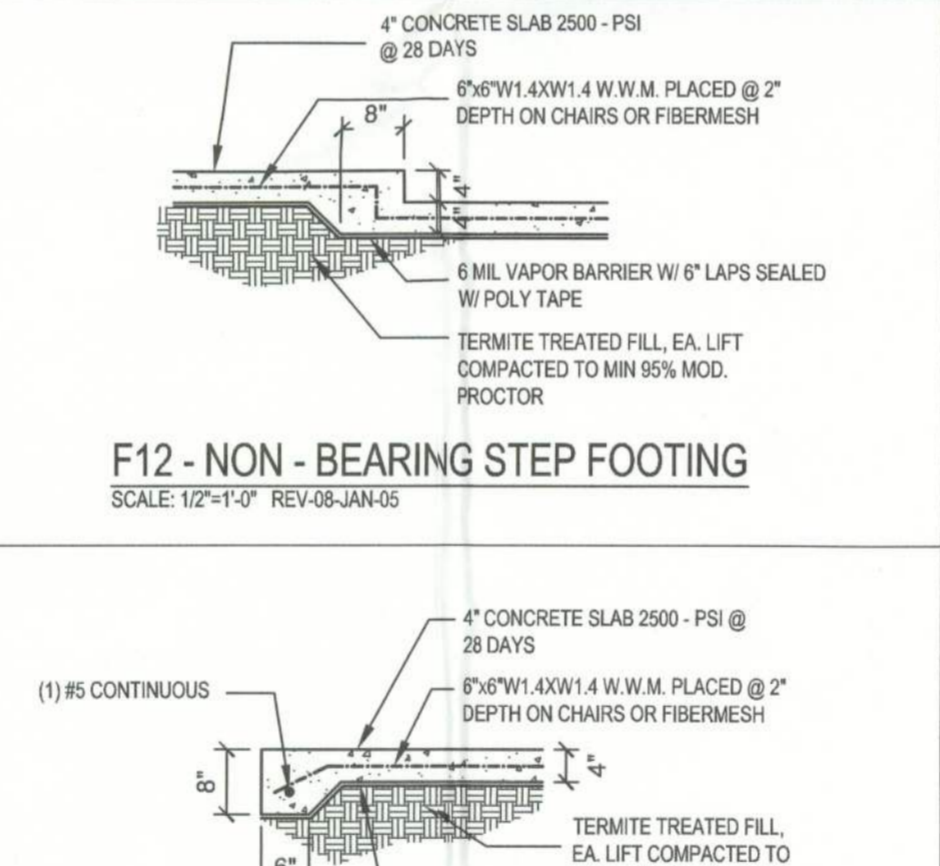
W12 - PORCH HEADER ANCHORS
SCALE: N.T.S. REV-18-JUL-03



W71 - HEADER SPANS FOR ROOF/CEILING LOAD



F3 - GARAGE DOOR POCKET
SCALE: 1/2\"/>



F13 - NON - BEARING THICKENED SLAB EDGE
SCALE: 1/2\"/>

N5 - TRUSS UPLIFT CONNECTOR TABLE

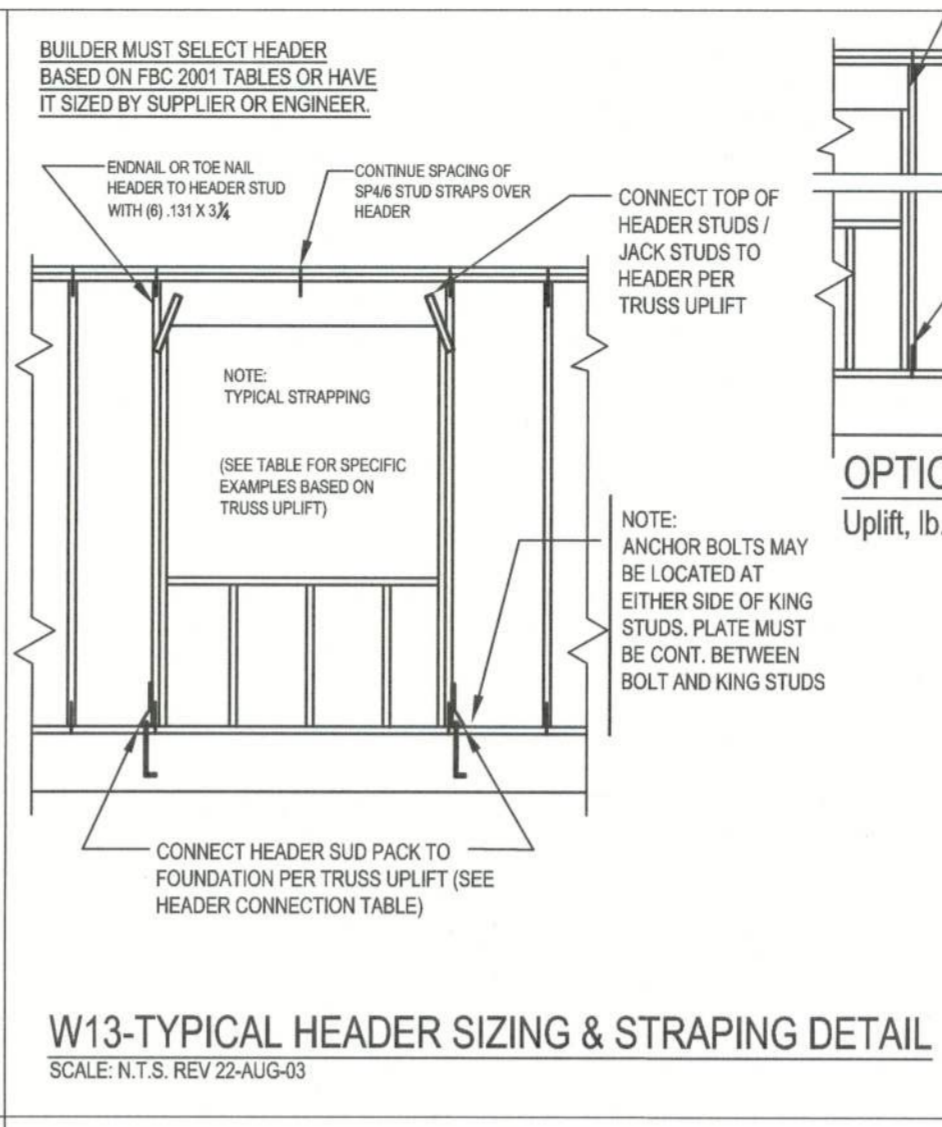
REV-18-NOV-04

All connectors are Simpson Strongtie, unless noted. All standard and bottom connectors from this table or SST catalog to meet truss uplift. Use fasteners as specified.

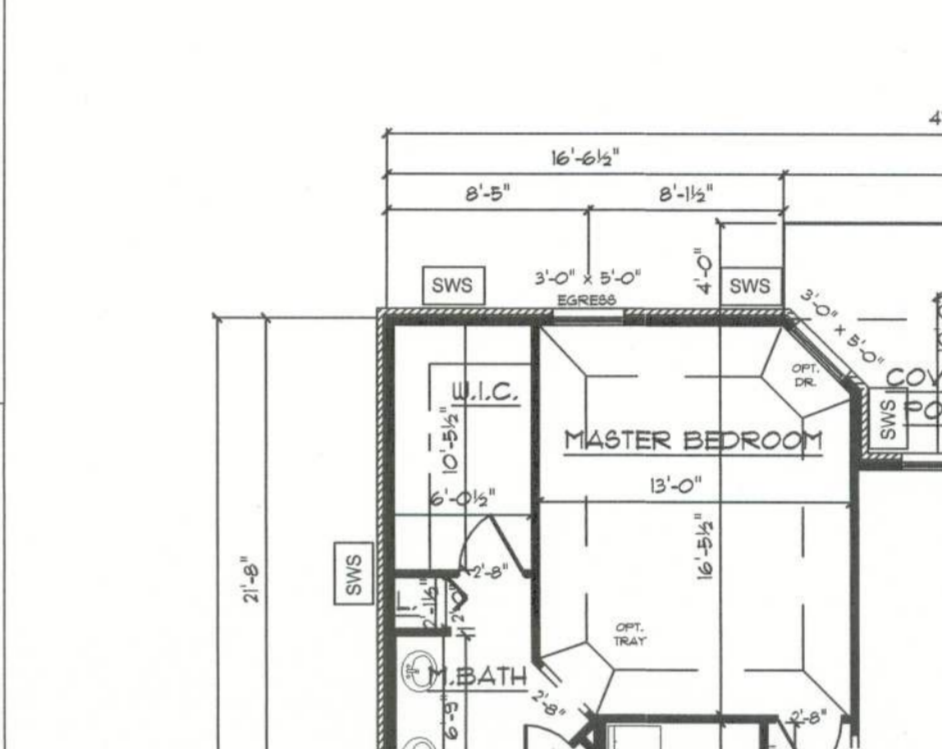
Uplift SPF	Uplift SYP	Truss Connector	To Plate	To Truss / Rafter
320	455	H3	4-8d	4-8d
245	350	H5A	3-8d	3-8d
535	600	H2-SA	5-8d	5-8d
620	720	H10	6-10d(1 1/2")	6-10d(1 1/2")
850	980	LTS12	8-8d(1 1/2")	8-8d(1 1/2")
1245	1450	HTS20	10-10d or 12-10d(1 1/2")	10-10d or 12-10d(1 1/2")
1265	1470	H16, H16-2	10-10d(1 1/2")	2-10d(1 1/2")
1785	2050	LG12	14-10d Sinker	16-16d Sinker
3555	4200	MG1	3/4" T10d Rod	22-10d
SPF	SYP	Strap Connector	To One Member	To Other Member
760	885	SP4	6-10d(1 1/2")	N/A
865	1005	CS20	9-8d or 7-10d	9-8d or 7-10d
1085	1285	LSTA18-24	7-10d	7-10d
1170	1380	SPH4	12-10d(1 1/2")	N/A
420	455	DSP	4-10d	3-10d to double plate or 1-10d to single
800	825	DSP	8-10d	6-10d to double plate or 2-10d to single
1420	1650	CS16	14-8d(1 1/2")	14-8d or 11-10d
SPF	SYP	Column Anchor	To Foundation	To Column / Truss
1160	1350	LTT119	3/4" x 18" AB	8-16d Sinker
1885	2310	LTT131	3/4" x 18" AB	18-10d(1 1/2")
2385	2775	HD2A	3/4" x 18" AB	2 3/8" Bolts
3590	4175	HTT16	3/4" x 18" AB	18-16d
1975	2300	ABU66	3/4" x 18" AB	12-16d

Notes: Simpson Strongtie. The designer is responsible for girthy loads. See SST product catalog for full details. All standard and bottom connectors from this table or SST catalog to meet truss uplift. Use fasteners as specified. SST Catalog # SST-CAT-2008-09-04.

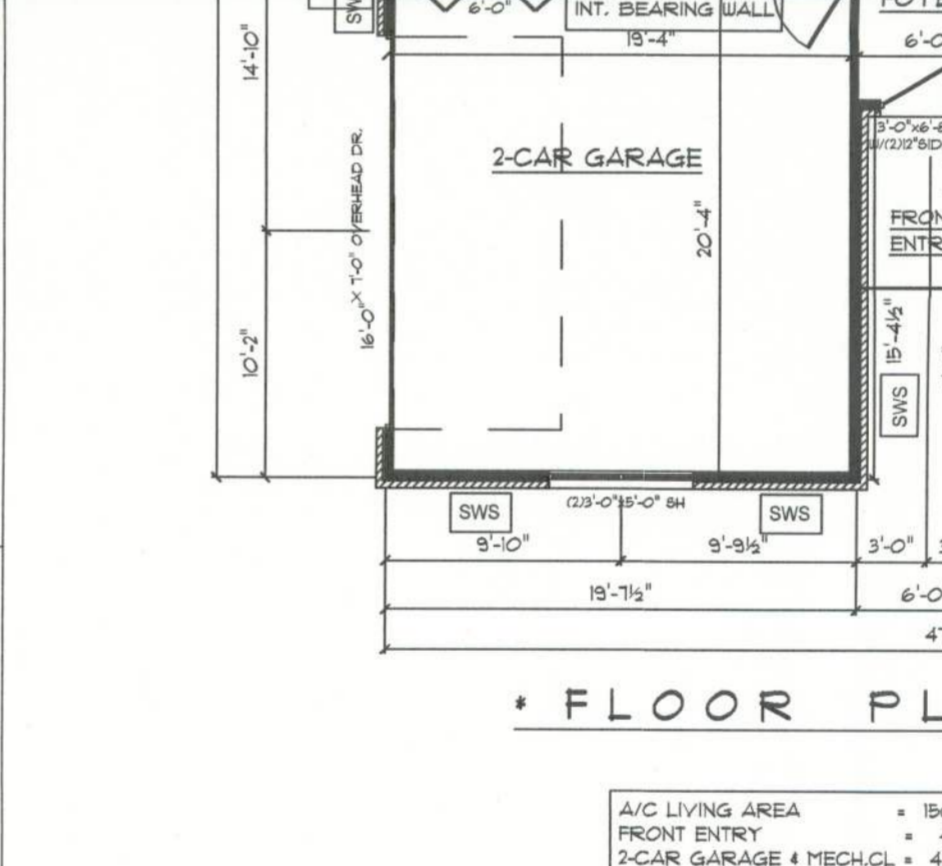
N5 - TRUSS UPLIFT CONNECTOR TABLE REV-18-NOV-04



W13 - TYPICAL HEADER SIZING AND STRAPING DETAIL
SCALE: N.T.S. REV-24-AUG-03



F3 - GARAGE DOOR POCKET
SCALE: 1/2\"/>

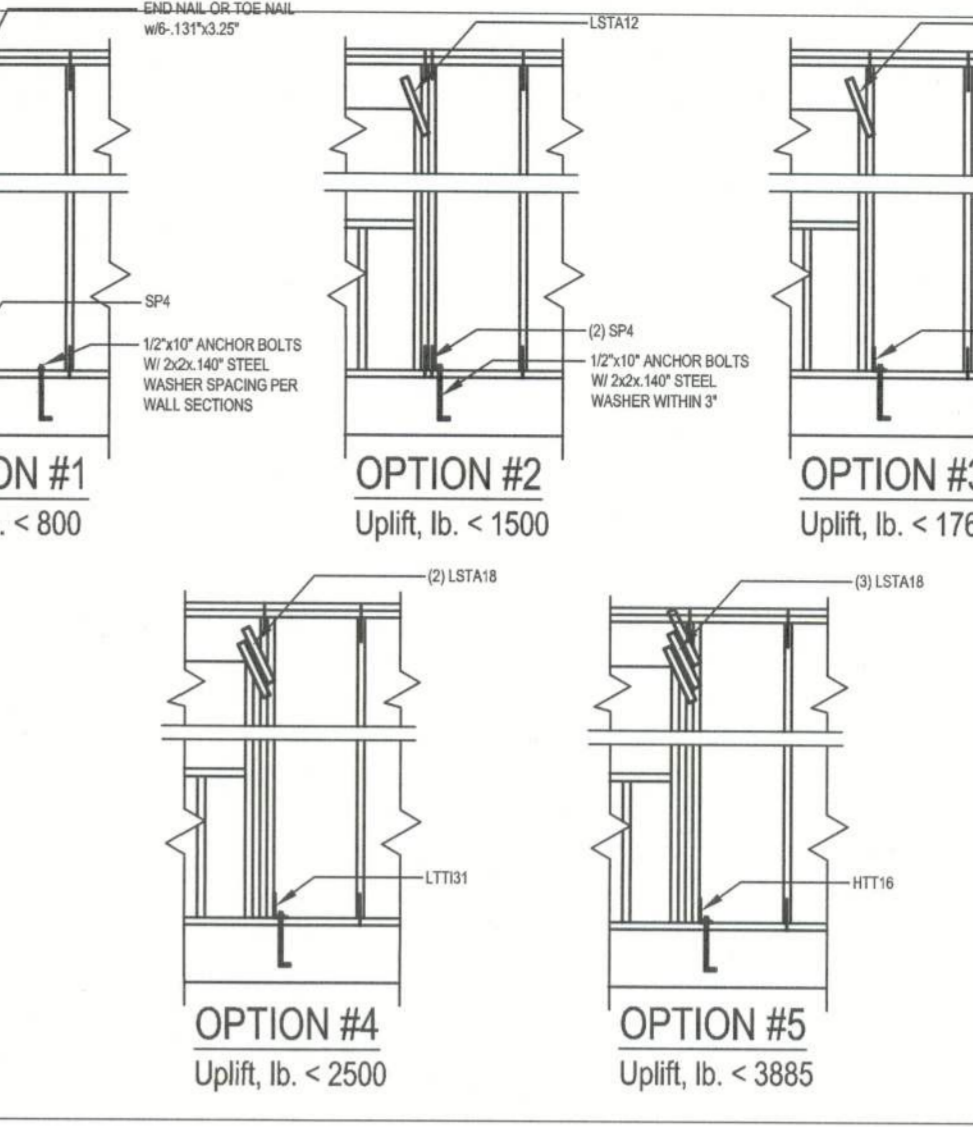


F13 - NON - BEARING THICKENED SLAB EDGE
SCALE: 1/2\"/>

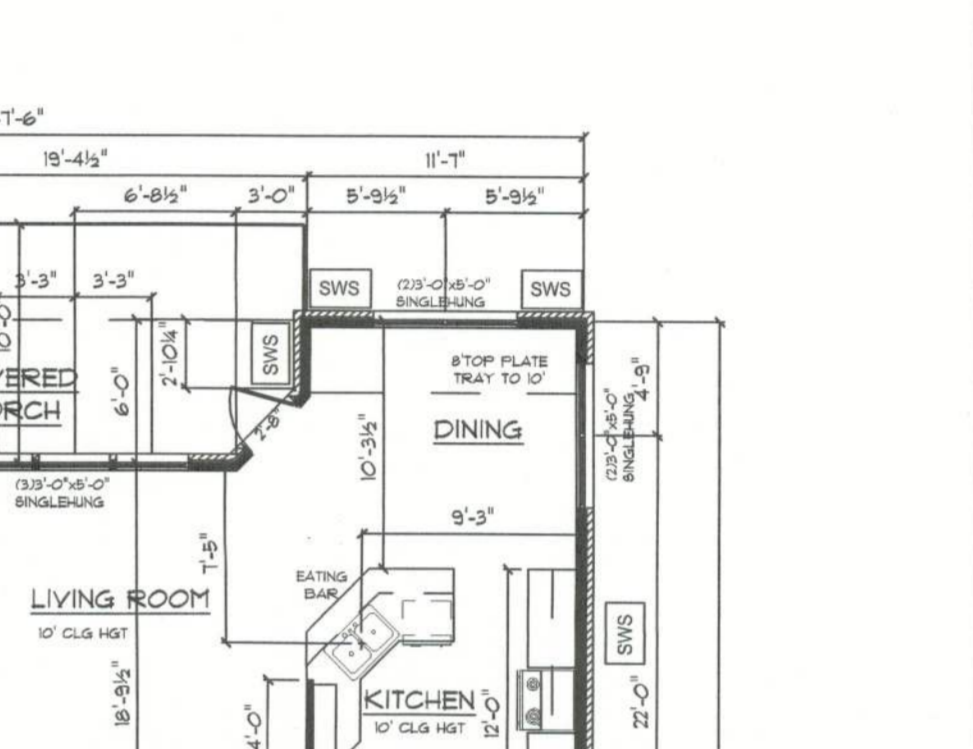
N4-WIND LOAD DESIGN DATA

Wind Exposure	Basic Wind Speed	Wind Importance Factor	Building Category	Internal pressure Coefficient	Building not in the high velocity hurricane zone	Building not in the wind-borne debris region	Mean Roof Height	Roof Angle
Exposure B	110 MPH	B	I	N/A (Endosed)	Building not in the high velocity hurricane zone	Building not in the wind-borne debris region	< 30 ft	< 15 degrees
Exposure C	110 MPH	B	II	N/A (Endosed)	Building not in the high velocity hurricane zone	Building not in the wind-borne debris region	< 30 ft	< 15 degrees
Exposure D	110 MPH	B	III	N/A (Endosed)	Building not in the high velocity hurricane zone	Building not in the wind-borne debris region	< 30 ft	< 15 degrees
Exposure E	110 MPH	B	IV	N/A (Endosed)	Building not in the high velocity hurricane zone	Building not in the wind-borne debris region	< 30 ft	< 15 degrees

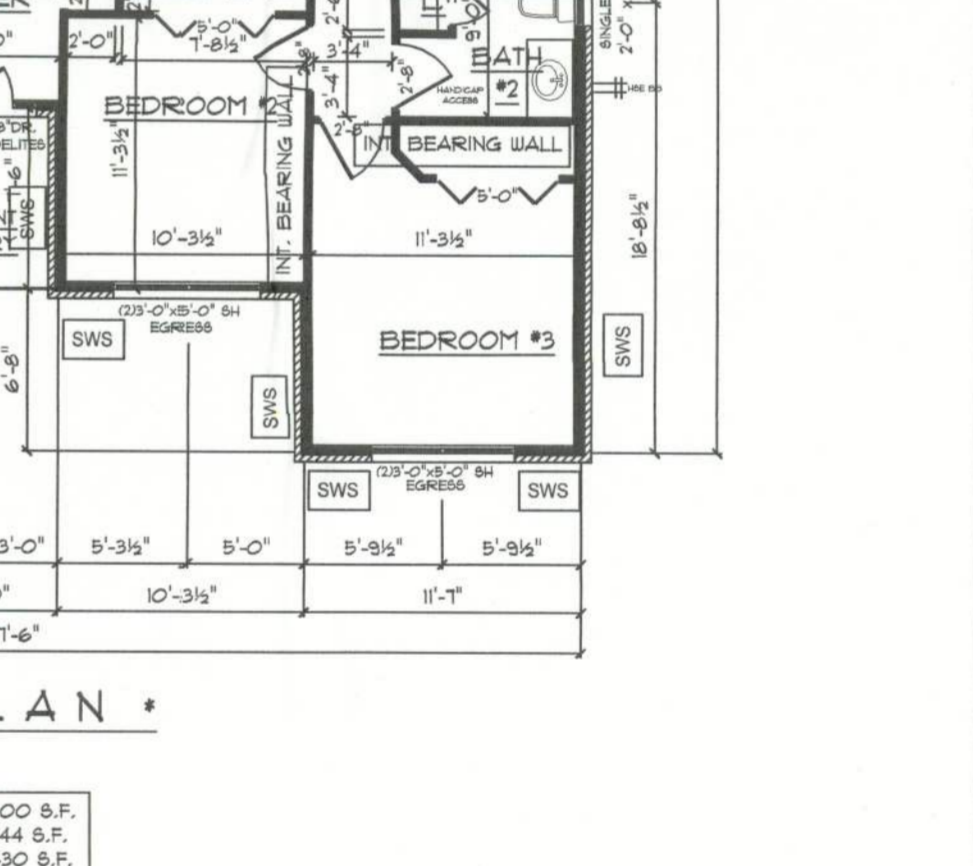
N4-WIND LOAD DESIGN DATA



W13 - TYPICAL HEADER SIZING AND STRAPING DETAIL
SCALE: N.T.S. REV-24-AUG-03



F3 - GARAGE DOOR POCKET
SCALE: 1/2\"/>



F13 - NON - BEARING THICKENED SLAB EDGE
SCALE: 1/2\"/>

N5-WINDLOAD ENGINEER SCOPE OF WORK: The wind load engineer is engineer of record for compliance of the structure to wind load requirements of FBC 2004, Section 1609. 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 & site conditions meet gravity load requirements (assume 1000 PSF bearing capacity unless visual observation or soils test proves otherwise)
- * Provide materials and construction techniques, which comply with FBC 2004 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 tables, temporary and permanent bracing details, truss-to-truss connections, and load reactions for all bearing locations.
- * Select uplift connections, walls, columns, and footings based on truss engineering bearing locations and reactions; including interior bearing walls.
- * Size headers for gravity loads, headers sized by the builder for gravity loads will also satisfy wind loads.

DOCUMENT 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 is by the latest signature date and is the responsibility of the builder.

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DIMENSIONS:
Sized dimensions supersede scaled dimensions. Refer all questions to Scaled dimensions, Do not proceed without clarification.

WINDLOAD ENGINEER: Mark Discoway, PE No. 53915

CERTIFICATION: The attached plans and "Windload Engineering", sheet S-1, comply with FBC 2004, Section 1609 wind loads, to the best of my knowledge.

N5 - TRUSS UPLIFT CONNECTOR TABLE REV-18-NOV-04

Load Bearing Header Sizing Methods (BY BUILDER)

- Determine header size from FBC 2001, Tables 2308.3 A, B, & C, or 2308.5.
- Use supplier published data or Southern pine span tables.
- For engineered lumber beams have suppliers engineer size beam.
- Jack Studs and King Studs (BY BUILDER).
- Lookup jack studs from FBC 2001, Tables 2308.3 A, B, & C, or 2308.5.
- Use one jack stud for every 3000 lb vertical load.
- Total King plus jack studs = studs needed to be there if no opening was there.
- Header Uplift Connections (BY BUILDER).
- Calculate the uplift at each end of the header by summing the moments of all truss uplifts and dividing by the length of the header.
- Select header connections from table below or mfg. catalog to connect header to stud (top connection) and stud to foundation (bottom connection).

Option #	Uplift, lb.	Top Connector	Bottom Connector
#1	< 800	End nail or tie nail w/6-137x3.25"	SP4, 6-10d(1 1/2\"/>
#2	< 1500	LSTA12, 10-10d	755 (2) SP4, 6-10d(1 1/2\"/>
#3	< 1750	LSTA18, 14-10d	1055 LTT208, 10-10d 1/2" AB
#4	< 2500	(2) LSTA18, 14-10d	2110 LTT101, 18-10d(1 1/2" AB
#5	< 3885	(3) LSTA18, 14-10d	3480 HTT16, 18-16d 3/4" X 10" AB

Uplift greater than 3885 lb requires engineering design

FBC2001, TABLE 2308.3A
Header Spans For Exterior Bearing Walls Supporting Roof-Ceiling (2308.3A)

Header Span (ft)	Building Width / Truss Span (ft)			
	20	28	36	44
2-20d	3-6	3-2	1-2-10	
2-24d	5-5	1-4-8	1-4-2	
2-28d	6-10	1-5-11	2-5-4	
2-32d	8-5	2-7-3	2-6-6	
2-36d	9-9	2-8-5	2-7-6	
2-40d	10-1	2-9-1	2-8-2	
2-44d	11-1	2-10-2	2-9-5	
2-48d	12-2	2-11-1	2-10-2	
2-52d	13-1	2-12-1	2-11-1	
2-56d	14-1	2-13-1	2-12-1	
2-60d	15-1	2-14-1	2-13-1	

NOTES: NU = Number of jack studs required to support each end. Building width is measured perpendicular to the ridge. For widths between those shown, spans may be interpolated. Spans are based on uniform loads on header.

N2-GENERAL NOTES:

FOUNDATION: FOR POINT LOADS GREATER THAN 5000 LB OR REPETITIVE TRUSS LOADS GREATER THAN 2000 LB PER TRUSS PROVIDE A THICKENED SLAB OR PAD FOOTING 1'-0" X 1 sq ft. FOR EVERY 1000 LB OF BEARING REINFORCE WITH #5 @ 8" O.C. EACH WAY

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE $F_c = 3000$ PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED FABRIC: 6" @ 6" W14 x W14, F = 85KSI, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185, LOCATED IN MIDDLE OF SLAB, SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C116 WHEN REQUESTED BY THE BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WMM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS 12FT. TO OWNER AND CONTRACTORS APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, $F_y = 80$ KSI, ALL LAPS SPICES 48" @ 30" FOR #5 BARS; UNO. ALL REINFORCEMENT SHALL BE DETAILLED AND PLACED IN ACCORDANCE WITH ACI 318-95 WITH ACI 318-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 30 INCHES.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURERS INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; NO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

W13 - TYPICAL HEADER SIZING AND STRAPING DETAIL. SCALE: N.T.S. REV-24-AUG-03

F2 - PORCH SLAB. SCALE: 1/2" X 1/4" REV-22-AUG-03

F3 - GARAGE DOOR POCKET. SCALE: 1/2" X 1/4" 22-AUG-03

F12 - NON - BEARING STEP FOOTING. SCALE: 1/2" X 1/4" REV-08-JAN-05

F13 - NON - BEARING THICKENED SLAB EDGE. SCALE: 1/