

office



AREA SUMMARY	
LIVING AREA -	1792.5 SF
GARAGE -	551.1 SF
PORCHES -	172.0 SF
TOTAL AREA -	2515.6 SF

ELEVATION PLAN  
SCALE: AS NOTED

NEW SINGLE FAMILY DWELLING FOR:  
**WISE ESTATES LOT 21**

**FIRST IMPRESSIONS**  
ARCHITECTURAL DESIGN, LLC  
2109 W. US HWY 90 SUITE 170-144  
LAKE CITY, FL 32055  
PHONE: (386) 755-8887

DATE:

CHECKED BY:

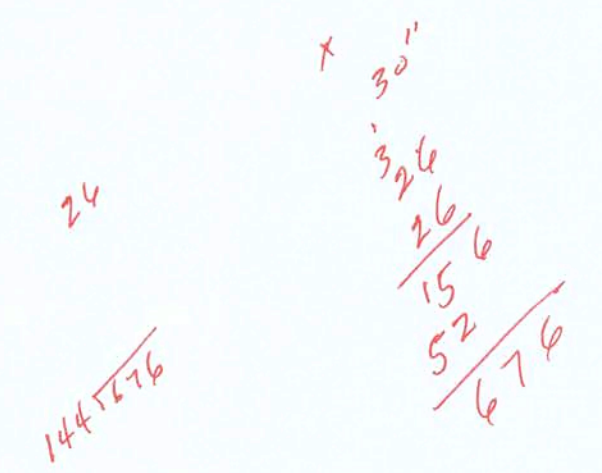
SHEET NUMBER

**A-1**

OF 4 SHEETS

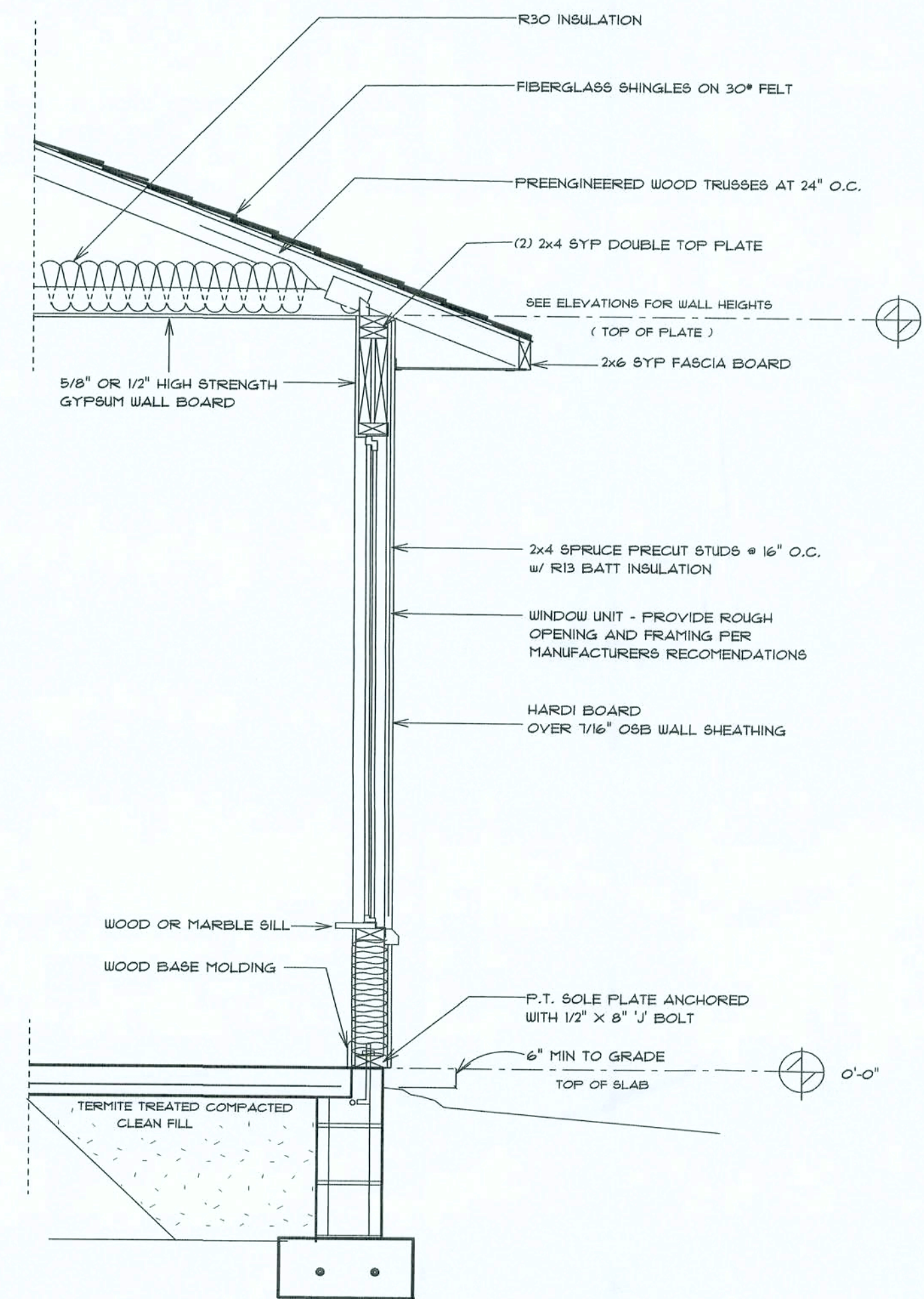
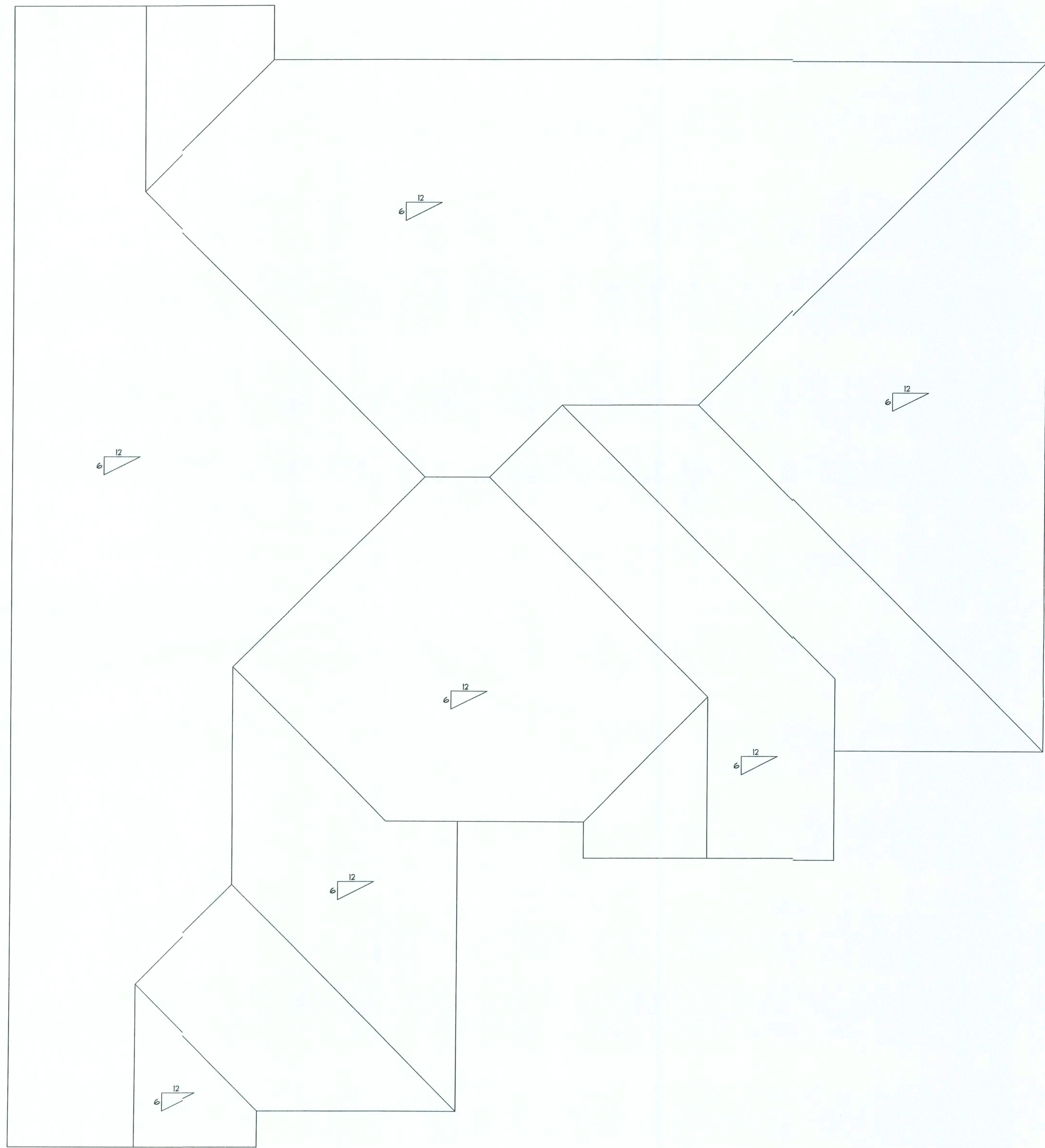
DESIGNER:  
BRIAN CRAWFORD





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





TYPICAL WALL SECTION  
2 X 4 STUD WALL W/ SIDING

#### AREA SUMMARY

LIVING AREA - 1792.5 SF  
GARAGE - 551.1 SF  
PORCHES - 172.0 SF  
TOTAL AREA - 2515.6 SF

#### ROOF PLAN

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

## NEW SINGLE FAMILY DWELLING FOR: WISE ESTATES LOT 21

**FIRST IMPRESSIONS**  
ARCHITECTURAL DESIGN, LLC  
2109 W. US HWY 90 SUITE 110-144  
LAKE CITY, FL 32055  
PHONE: (386) 755-8887

DATE:

CHECKED BY:

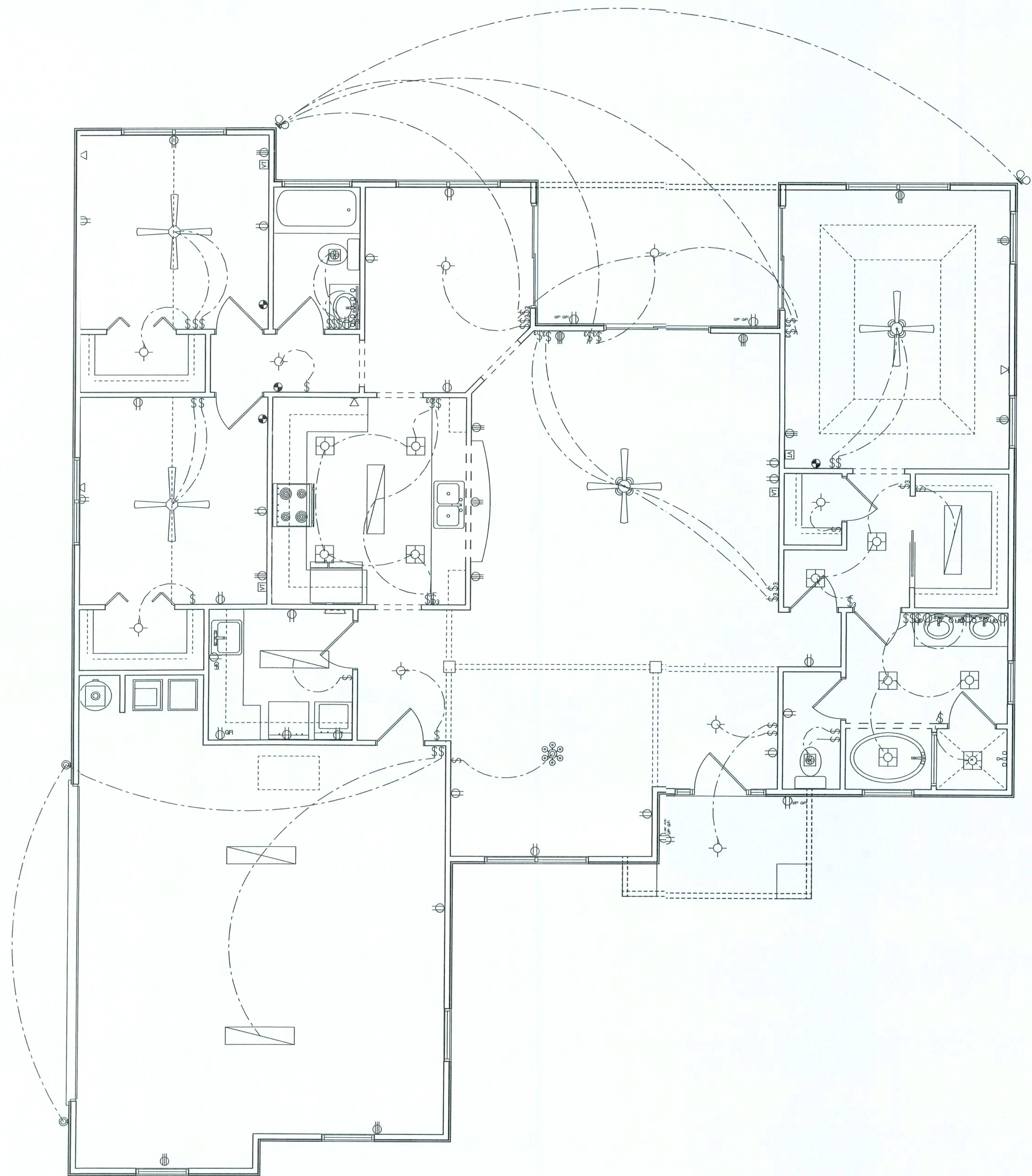
SHEET NUMBER

**A-3**

OF 4 SHEETS

DESIGNER:  
BRIAN CRAWFORD





ELECTRICAL PLAN NOTES

ALL <sup>outlets</sup> RECEPTALS IN ALL BEDROOMS SHALL BE AFCI CIRCUITS

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

OVERCURRENT PROTECTION DEVICE SHALL BE INSTALLED ON THE EXTERIOR OF STRUCTURES TO SERVE AS A DISCONNECTING MEANS. CONDUCTORS USED FROM THE EXTERIOR DISCONNECTING MEANS TO A PANEL OR SUB PANEL SHALL HAVE 4-WIRE CONDUCTORS, OF WHICH ONE CONDUCTOR SHALL BE USED AS AN EQUIPMENT GROUND.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT N<sup>o</sup>., DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE/W RATINGS & LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

ELECTRICAL	COUNT	SYMBOL
ceiling fan	4	
can light	10	
chandelier	1	
double spotlight	2	
fluorescent fixture	5	
vanity bar light	2	
wall mount l	2	
electrical panel	1	
cable tv outlet	4	
fan with light	2	
light	9	
outlet	23	
outlet 220v	12	
outlet gfi	6	
smoke detector	4	
switch	28	
switch 3 way	16	
telephone	4	

AREA SUMMARY

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PORCHES - 172.0 SF  
TOTAL AREA - 2515.6 SF

ELECTRICAL PLAN

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

NEW SINGLE FAMILY DWELLING FOR:  
**WISE ESTATES LOT 21**

**FIRST IMPRESSIONS**  
ARCHITECTURAL DESIGN, LLC  
2108 W. US HWY 90 SUITE 170-144  
LAKE CITY, FL 32055  
PHONE: (386) 733-8887

DATE:

CHECKED BY:

SHEET NUMBER

**A-4**  
OF 4 SHEETS

DESIGNER:  
BRIAN CRAWFORD





7/16" STRUCTURAL ROOF SHEATHING

2X4 OUTRIGGER @ 48" OC.

BLOCKING REQUIRED BETWEEN OUTRIGGERS

(3) .131 X 3 1/4" GUN NAILS

2X4 BLOCKING @ SHEATHING JOINT 4' FROM GABLE END

2X4 SCAB CONT. TOP TO BOTTOM CHORD @ 8' FROM GABLE

4 - 10d NAILS OR 4 - 131"x 3.25" TYPICAL AT ALL CONNECTIONS

2X4 SCAB IF VERT. WEB IS NOT PRESENT

CONT. 2X4X8" #2 SYP LATERAL BRACE @ 48" OC.

2X4 BLOCKING @ 48" OC. BETWEEN GABLE AND FIRST TRUSS.

2X4 X-BRACE @ 6'-0" OC.

HURRICANE CLIP H-2.5 OR EQUAL 48" OC.

2X4 BARGE RAFTER CONT.

SHINGLE STRIP

FASCIA

2'-0" MAX

TOP CHORD OF GABLE END TRUSS DROP 3 1/2"

CONT. 2X4 SCAB FROM TOP TO BOTTOM CHORD @ X-BRACING (PROVIDE ADDITIONAL 2X4'S @ VERTICAL IF HIGHER THAN 48", TO FORM AN "L" SHAPE).

TOE NAIL TRUSS TO DOUBLE PLATE w/ 16d COM @ 8" OC.

BOTTOM CHORD OF GABLE END TRUSS

2 - 2X4 TOP PLATE

SIMPSON LSTA 24 @ 48" OC.

2X4 STUDS @ 16" OC.

PRE ENGINEERED ROOF TRUSS

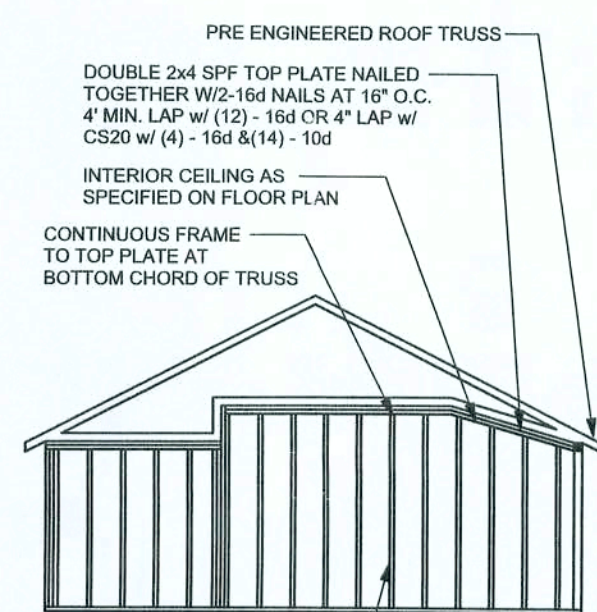
DOUBLE 2x4 SPF TOP PLATE NAIL TOGETHER W/ 16d NAILS AT 8" O.C. 4 MIN. LAP w/ (12) - 16d CR 4" LAP w/ CS20 w/ (9) - 16d R141 - 10d

INTERIOR CEILING AS SPECIFIED ON FLOOR PLAN

CONTINUOUS FRAME TO TOP PLATE AT BOTTOM CHORD OF TRUSS

		Fb (psi)	E (10 <sup>6</sup> )
2x8	SYP #2	1200	1
2x10	SYP #2	1050	1
2x12	SYP #2	975	1
GLB	24F-V3 SP	2400	1
LSL	TIMBERSTRAND	1700	1
LVL	MICROLAM	1600	1
PSL	PARALAM	2900	2

		Fb (psi)	E (10 <sup>6</sup> psi)
2x8	SYP #2	1200	1.6
2x10	SYP #2	1050	1.6
2x12	SYP #2	975	1.6
GLB	24F-V3 SP	2400	1.8
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	1600	1.9
PSL	PARALAM	2900	2.0



SCALE: N.T.S.

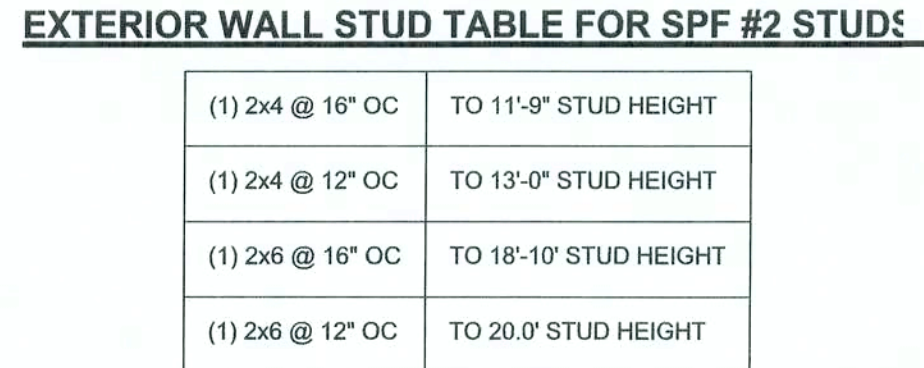


THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR 2040, SECTION 302.12 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER TO PROVIDE ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBC 2001 REQUIRED LOADS AND DESIGN SPACE. THE TRUSS MANUFACTURER SHALL REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF SYSTEM BECAUSE THE LOADS ARE BASED ON THE TRUSS MANUFACTURER BEING RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.

UPLIFT LBS. SPT	UPLIFT LBS. SPT	TRUSS CONNECTOR*	TO PLATES	TO RAFTER/RUSS	TO STUDS
< 420	< 245	H5A	3-6d	3-6d	
< 455	< 265	H5	4-6d	4-6d	
< 360	< 235	H4	4-6d	4-6d	
< 455	< 320	H3	4-6d	4-6d	
< 415	< 365	H2.5	5-6d	5-6d	
< 600	< 535	H2.5A	5-6d	5-6d	
< 950	< 820	H6	8-6d	8-6d	
< 745	< 565	H8	5-10d, 1 1/2"	5-10d, 1 1/2"	
< 1465	< 1050	H14-1	13-6d	12-6d, 1 1/2"	
< 1465	< 1050	H14-2	15-6d	12-6d, 1 1/2"	
< 990	< 850	H10-1	8-6d, 1 1/2"	8-6d, 1 1/2"	
< 760	< 655	H10-2	6-10d	6-10d	
< 1475	< 1265	H16-1	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1470	< 1265	H16-2	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1000	< 860	MTS24C	7-10d, 1 1/2"	7-10d, 1 1/2"	
< 1450	< 1245	HTS24	12-10d, 1 1/2"	12-10d, 1 1/2"	
< 2900	< 2490	2 - HTS24			
< 2050	< 1785	LGT2	14-16d	14-16d	
		<b>HEAVY GIRDER TIEDOWNS*</b>			
< 3665	< 3330	MG7		22-10d	1-5/8" THREADED ROD 12" EMBEDMENT
< 10980	< 6485	HGT-2		16-10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 10530	< 9035	HGT-3		16-10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 9250	< 9250	HGT-4		16-10d	2-5/8" THREADED ROD 12" EMBEDMENT
		<b>STUD STRAP CONNECTOR*</b>			
< 435	< 435	SSP DOUBLE TOP PLATE	3-10d		4-10d
< 455	< 420	SSP SINGLE SILL PLATE	1-10d		4-10d
< 825	< 825	DSP DOUBLE TOP PLATE	6-10d		8-10d
< 825	< 600	DSP SINGLE SILL PLATE	2-10d		8-10d
< 885	< 760	SP4			6-10d, 1 1/2"
< 1240	< 1065	SP4H			10-10d, 1 1/2"
< 885	< 760	SP6			6-10d, 1 1/2"
< 1240	< 1065	SP6H			10-10d, 1 1/2"
< 1235	< 1165	LSTA18	14-10d		
< 1235	< 1235	LSTA21	16-10d		
< 1030	< 1030	CS20	18-6d		
< 1705	< 1705	CS16	28-6d		
		<b>STUD ANCHORS*</b>			
< 1350	< 1305	LTT19	8-16d		1/2" AB
< 2310	< 2310	LTT31	18-10d, 1 1/2"		1/2" AB
< 2775	< 2570	HD2A	2-5/8" BOLTS		5/8" AB
< 4175	< 3695	HTT16	18 - 16d		5/8" AB
< 1400	< 1400	PAHD42	16-16d		
< 3335	< 3335	HPAHD22	16-16d		
< 2200	< 2200	ABU44	12-16d		1/2" AB
< 2300	< 2300	ABU66	12-16d		1/2" AB
< 2320	< 2320	ABU88	18 - 16d		2-5/8" AB

Mark Diseno  
01 mar 06  
SEAL

## OF 3 SHEETS



THIS STUD HEIGHT TABLE IS PER WFCM 2001, TABLE 3.208, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS. RESISTING INTERIOR ZONE WINDLOADS 110 MPH EXPOSURE. STUD SPACINGS SHALL BE MULTIPLIED BY 0.85 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADS. EXAMPLE 16" O.C. x 0.85 = 13.6" O.C.

ALL MEMBERS SHALL BE SYP



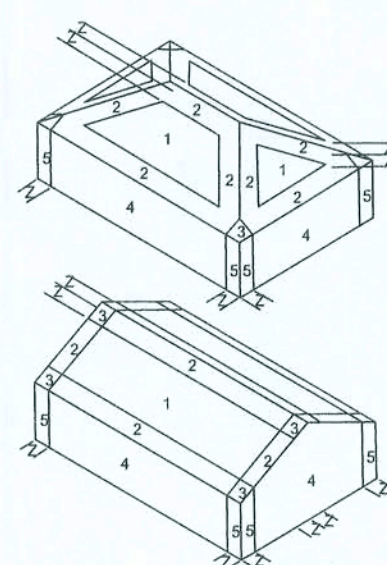
**SUPPORTIVE POST TO BEAM**  
**DETAIL FOR SINGLE BEAM**  
SCALE: N.T.S.

SCALE: N.T.S.

## SCALE: N.T.S.

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

8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))



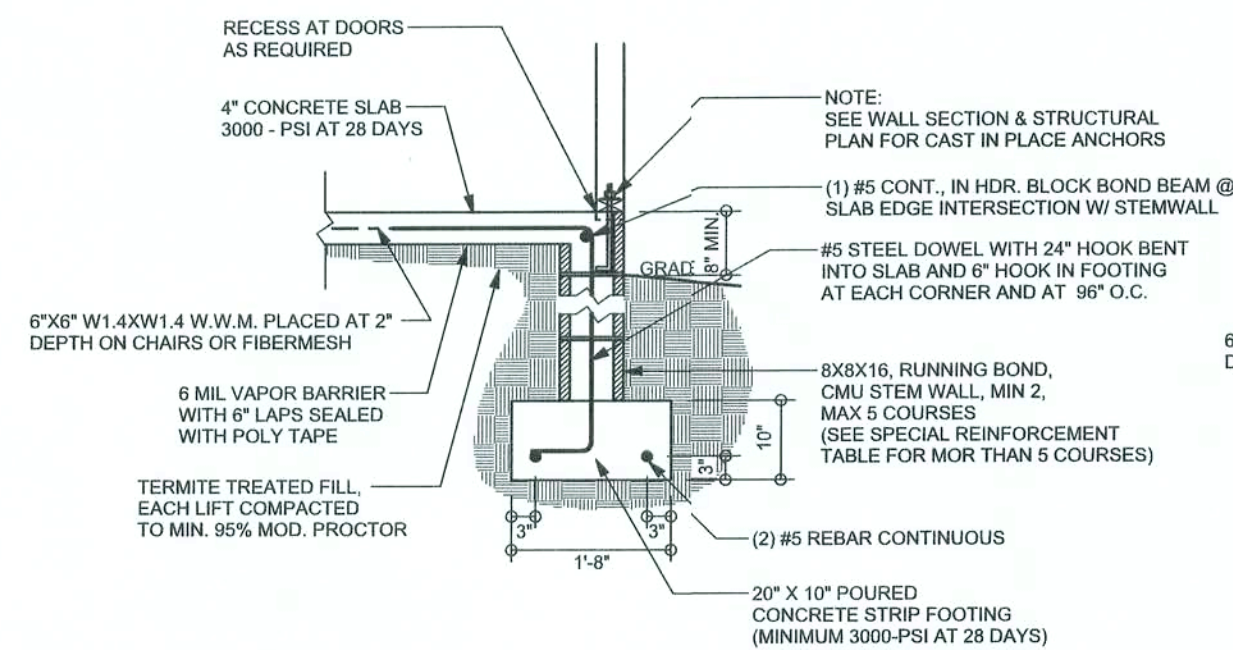
FLOOR	40 PSF (ALL OTHER DWELLING ROOMS)
	30 PSF (SLEEPING ROOMS)
	30 PSF (ATTICS WITH STORAGE)
	10 PSF (ATTICS WITHOUT STORAGE, <3:12)
ROOF	20 PSF (FLAT OR <4:12)
	16 PSF (4:12 TO <12:12)
	12 PSF (12:12 AND GREATER)
STAIRS	40 PSF (ONE & TWO FAMILY DWELLINGS)
SOIL BEARING CAPACITY	1000PSF
NOT IN FLOOD ZONE (BUILDER TO VERIFY)	

Zone	Effective Wind Area (ft2)		
	10	100	
1	19.1	-21.8	-18.1
2	19.1	-25.5	18.1
2 O'Hg		-40.6	-40.6
3	19.1	-25.5	18.1
3 O'Hg		-68.3	-42.4
4	21.1	-23.6	18.5
5	21.1	-29.1	18.5
Doors & Windows Worst Case (Zone 5, 11 ft2)	21.8	-29.1	
8x7 Garage door	19.5	-22.9	
16x7 Garage door	18.5	-21.0	

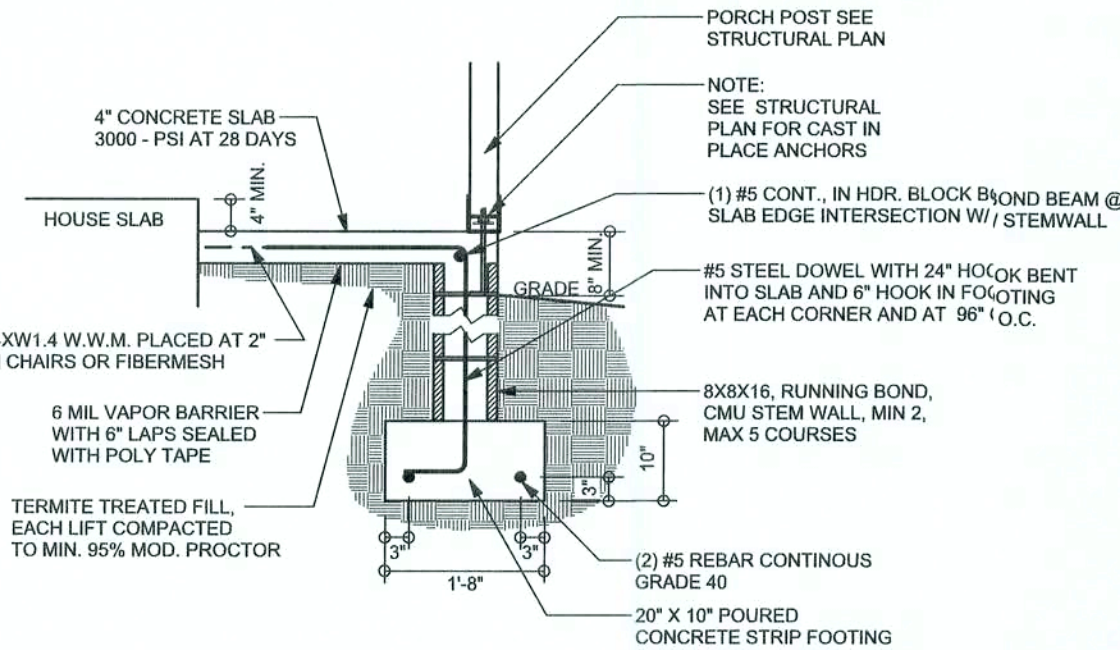


REVISIONS

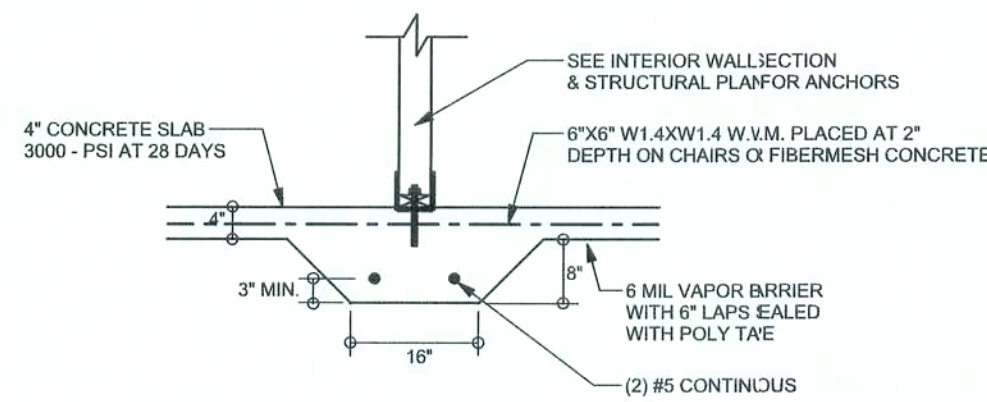
SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE



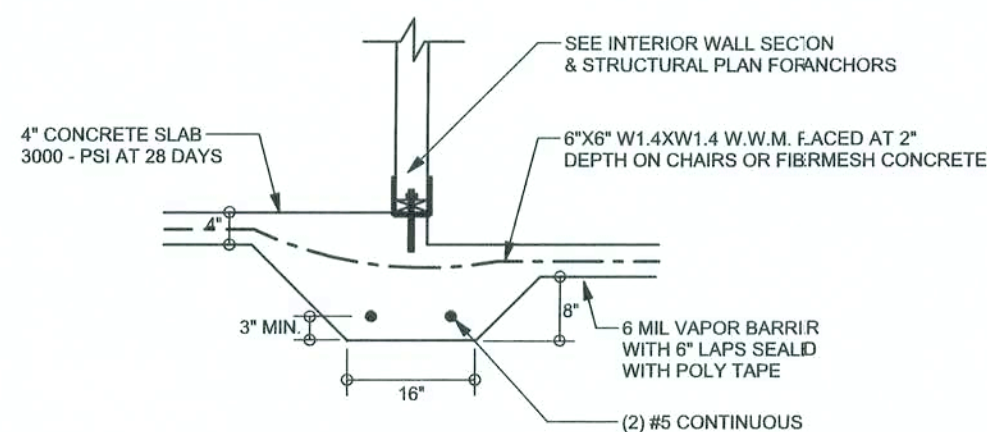
**F9**  
**S-2** STEM WALL FOOTING  
SCALE: 1/2" = 1'-0"



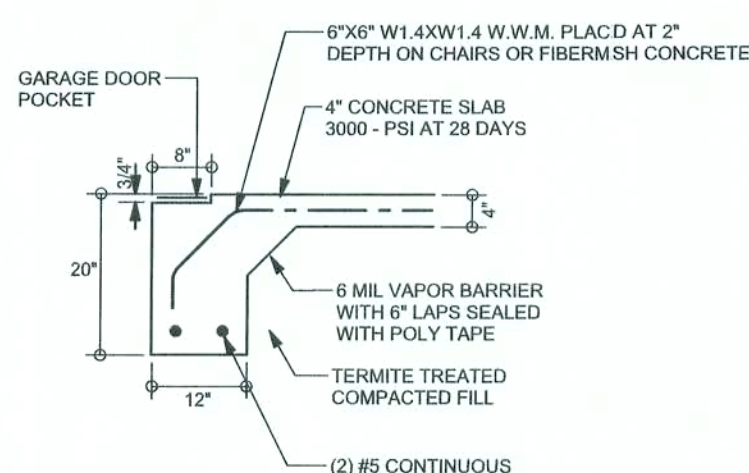
**F12**  
**S-2** ALT. STEM WALL PORCH FOOTING  
SCALE: 1/2" = 1'-0"



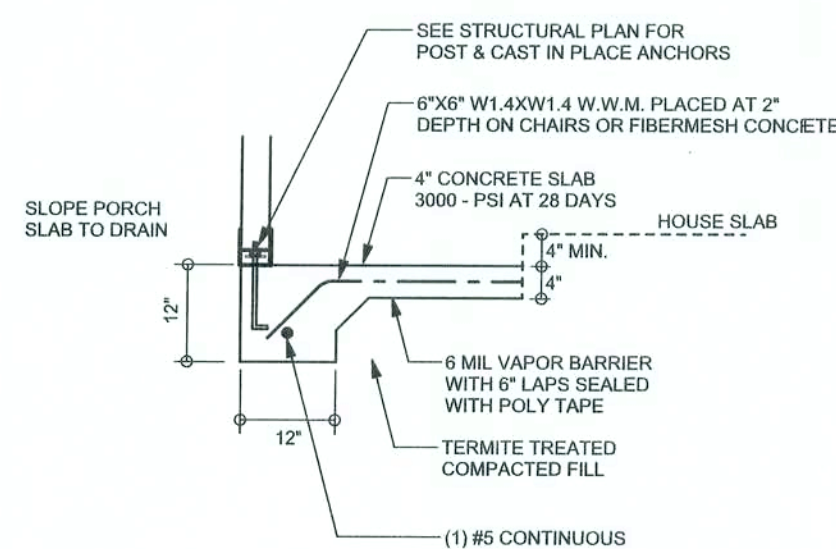
**F2**  
**S-2** INTERIOR BEARING FOOTING  
SCALE: 1/2" = 1'-0"



**F3**  
**S-2** INTERIOR BEARING STEP FOOTING  
SCALE: 1/2" = 1'-0"



**F4**  
**S-2** GARAGE DOOR FOOTING  
SCALE: 1/2" = 1'-0"

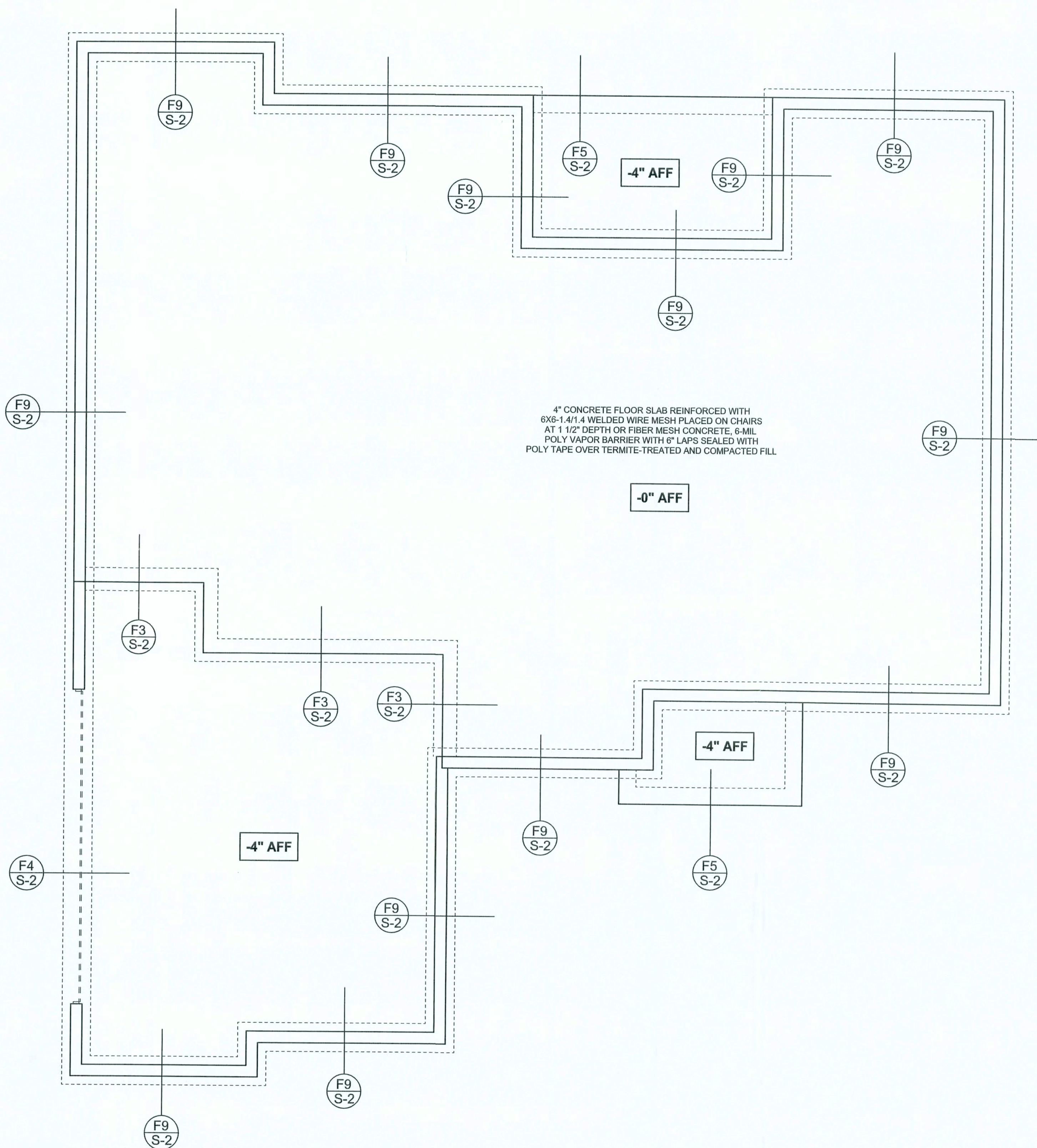


**F5**  
**S-2** PORCH FOOTING  
SCALE: 1/2" = 1'-0"

**TALL STEM WALL TABLE**

The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 18"OC vertically or a horizontal bond beam with #5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48



**FOUNDATION PLAN**

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

DIMENSIONS ON STRUCTURAL SHEETS  
ARE NOT EXACT. REFER TO ARCHITECTURAL  
FLOOR PLAN FOR ACTUAL DIMENSIONS

WINDLOAD ENGINEER: Mark Disosway,  
P.E. No. 53915, F.O.B. 868, Lake City, FL  
32056, 386-754-5419

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

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form or manner without first the express written  
permission and consent of Mark Disosway.

CERTIFICATION: I hereby certify that I have  
examined this plan, and that the applicable  
portions of the plan, relating to wind engineering  
comply with section F301.2.1, Florida building  
code residential 2004, to the best of my  
knowledge.

LIMITATION: This design is valid for one  
building, at specified location.

MARK DISOSWAY  
P.E. 53915

*Mark Disosway*  
01/06/06  
SEAL

Concept Construction  
Of North Florida, Inc.

Spec House  
Lot 21 Wise Estates S/D

ADDRESS:  
Lot 21 Wise Estates S/D  
Columbia County, Florida

Mark Disosway P.E.  
P.O. Box 868  
Lake City, Florida 32056  
Phone: (386) 754 - 5419  
Fax: (386) 269 - 4871

PRINTED DATE:  
March 01, 2006

DRAWN BY: David Disosway CHECKED BY:

FINALS DATE:  
01 / Mar / 06

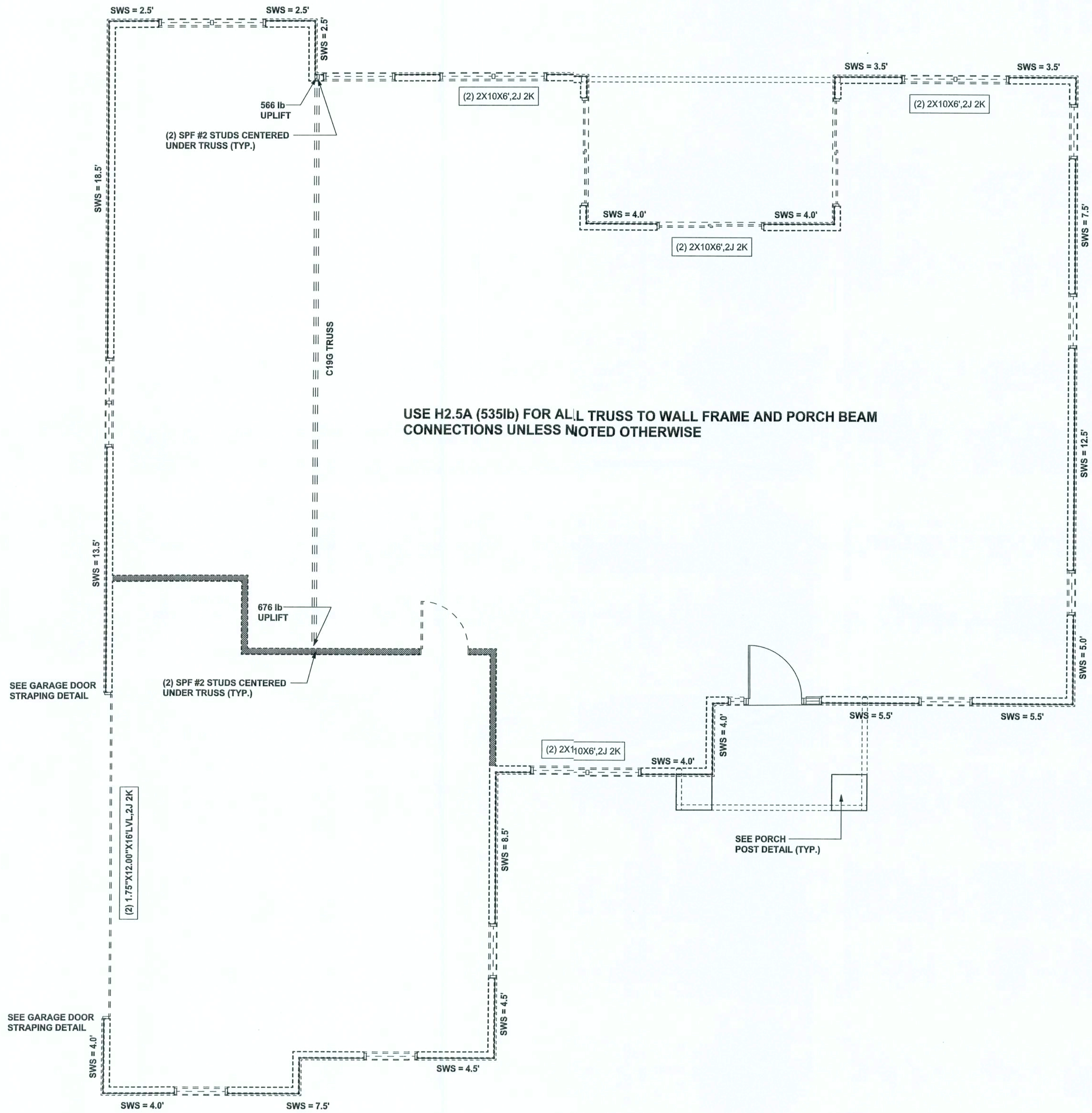
JOB NUMBER:  
602203

DRAWING NUMBER  
**S-2**

OF 3 SHEETS



REVISIONS	



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

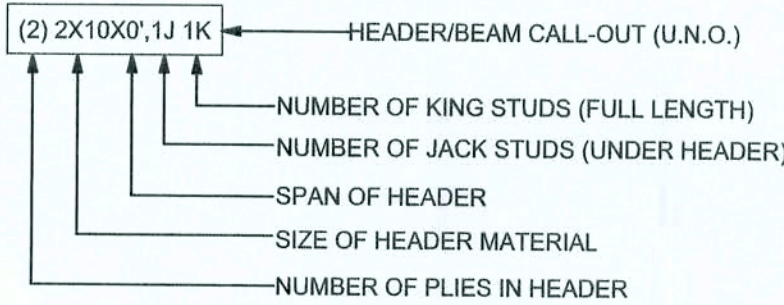
### STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X10 SYP #2 (U.N.O.)
- SN-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- SN-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- SN-4 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCS11-03, BCS1-B1, BCS1-B2, & BCS1-B3. BCS1-B1, BCS1-B2, & BCS1-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

### WALL LEGEND

SWS = 0.0'	1ST FLOOR EXTERIOR WALL WITH 7/16" O.S.B. WALL SHEATHING FULLY BLOCKED 8d COMMON NAILS 6" O.C. EDGE, 12" O.C. FIELD (U.N.O.)
SWS = 0.0'	2ND FLOOR EXTERIOR WALL WITH 7/16" O.S.B. WALL SHEATHING FULLY BLOCKED 8d COMMON NAILS 6" O.C. EDGE, 12" O.C. FIELD (U.N.O.)
IBW	1ST FLOOR INTERIOR BEARING WALLS SEE DETAILS ON SHEET S-1
IBW	2ND FLOOR INTERIOR BEARING WALLS SEE DETAILS ON SHEET S-1

### HEADER LEGEND



### TOTAL SHEAR WALL SEGMENTS

SWS = 0.0' INDICATES SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	34.5'	80.5'
LONGITUDINAL	29.8'	51.5'

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER. W.B. HOWLAND TRUSS CO. JOB #3219

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 866, Lake City, FL 32056, 386-754-5419

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

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section F301.2.1, Florida building code residential 2004, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

MARK DISOSWAY  
P.E. 53915

SEAL

Concept Construction  
Of North Florida, Inc.

Spec House  
Lot 21 Wise Estates S/D

ADDRESS:  
Lot 21 Wise Estates S/D  
Columbia County, Florida

Mark Disosway P.E.  
P.O. Box 866  
Lake City, Florida 32056  
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PRINTED DATE:  
March 01, 2006  
DRAWN BY: David Disosway  
CHECKED BY:

FINALS DATE:  
01 / Mar / 06

JOB NUMBER:  
602203

DRAWING NUMBER  
**S-3**  
OF 3 SHEETS