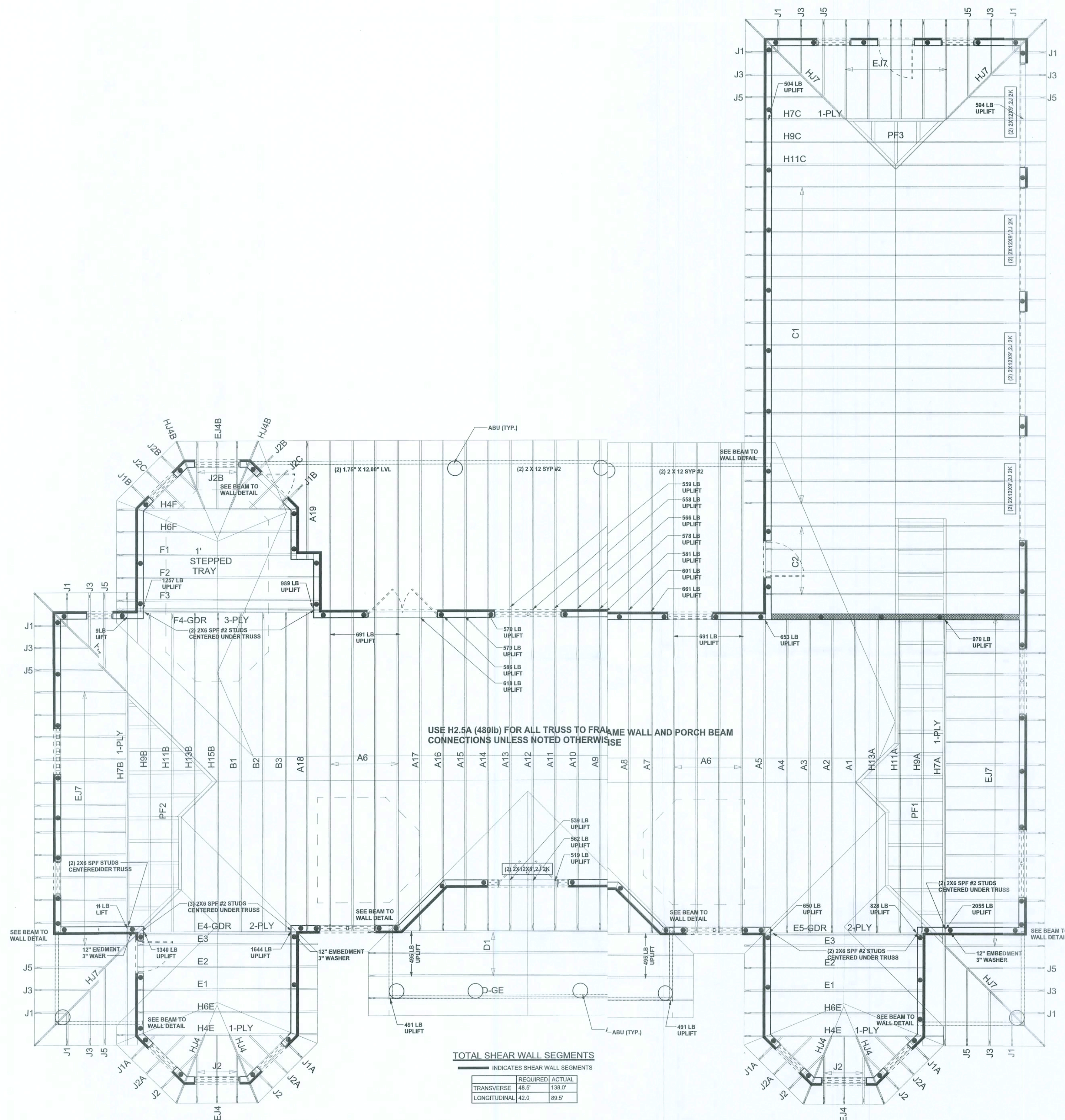


REVISIONS	

SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE



USE H2.5A (480lb) FOR ALL TRUSS TO FRAME WALL AND PORCH BEAM CONNECTIONS UNLESS NOTED OTHERWISE

TOTAL SHEAR WALL SEGMENTS	
INDICATES SHEAR WALL SEGMENTS	
	REQUIRED ACTUAL
TRANSVERSE	48.5 138.0
LONGITUDINAL	42.0 89.5

STRUCTURAL PLAN  
SCALE: 3/16" = 1'-0"

#### STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD-BEARING FRAME WALL & PORCH HEADERS SHALL BE MINIMUM OF (2) 2X12 SYP #2 (U.N.O.).
- SN-2 ALL LOAD-BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH (S.D.J.N.O.).
- SN-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT ACT. REFER TO ARCHITECTURAL FLOOR PLANS FOR ACTUAL DIMENSIONS.
- SN-4 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BC31-03, BC31-01, S1-B2, & BC31-01, BC31-01, BC31-02, & BC31-03 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE.

#### THREADED ROD LEGEND

- INDICATES LOCATION OF:  
1ST FLOOR 1/2" A307 ALL THREADED ROD
- INDICATES LOCATION OF:  
2ND FLOOR 1/2" A307 ALL THREADED ROD

#### HEADER LEGEND

- (2) 2X12X9' 1/1" K1 - HEADER/BEAM CALL-OUT (U.N.O.)
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER) (N)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PILES IN HEADER

#### WALL LEGEND

EXTERIOR WALL
INTERIOR NON-LOAD BEARING WALL
INTERIOR LOAD BEARING WALL w/ NO UPLIFT
INTERIOR LOAD BEARING WALL w/ UPLIFT

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER, ANDERSON TRUSS CO. JOB # 9-136

WINDLOAD ENGINEER:  
Mark Disoway, P.E.  
No. 53515, FOS 868, Lake City, FL 32056,  
386-754-5419

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

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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 R301.2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOWAY  
P.E. 5915

*Handwritten signature and date: 05/05/09*  
SEA

Tuwani Rossin  
Residence

ADDRESS:  
567 NW Jossin Ct.  
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Mark Disoway P.E.  
P.O. Box 868  
Lake City, Florida 32056  
Phone: (386) 754 - 5419  
Fax: (386) 369 - 4871

PRINTED DATE:  
October 5, 2009

DRAWN BY: David Disoway  
STRUCTURAL BY: David Disoway

FINALS DATE:  
5Oct09

JOB NUMBER:  
904146b

DRAWING NUMBER

S3

OF 7 SHEETS



REVISIONS	



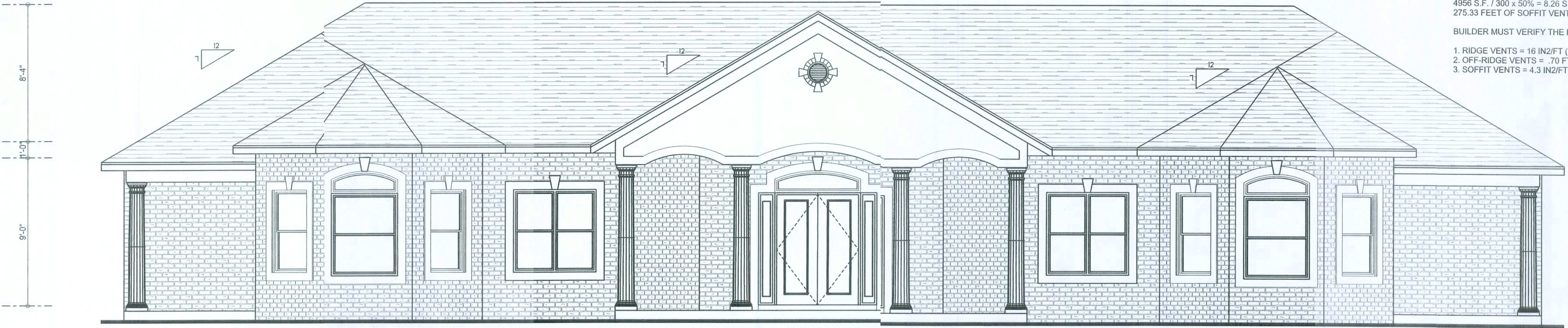
**REQUIRED ROOF VENTILATION:**  
 AS PER FLORIDA BUILDING CODE 2309.7

**RIDGE VENT**  
 MIN. 50% TOTAL VENT AREA  
 LOCATED IN THE UPPER PORTION OF ATTIC (MIN. 3" ABOVE EAVE)  
 4956 S.F. / 300 x 50% = 8.26 S.F. RIDGE VENT AREA REQUIRED  
 75.09 FEET OF RIDGE VENT REQUIRED

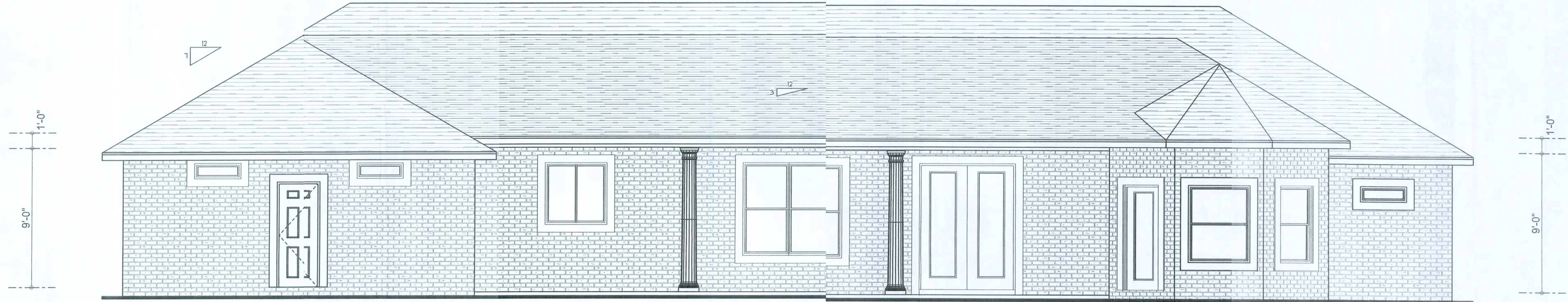
**SOFFIT VENT**  
 4956 S.F. / 300 x 50% = 8.26 S.F. SOFFIT VENT AREA REQUIRED  
 275.33 FEET OF SOFFIT VENT REQUIRED

**BUILDER MUST VERIFY THE FOLLOWING MINIMUM NET FREE VENT AREAS:**

1. RIDGE VENTS = 16 IN2/FT (.11 FT2/FT)
2. OFF-RIDGE VENTS = .70 FT2 PER 4' UNIT
3. SOFFIT VENTS = 4.3 IN2/FT (.03 FT2/FT)



**FRONT ELEVATION**  
 SCALE: 1/4" = 1'-0"



**REAR ELEVATION**  
 SCALE: 1/4" = 1'-0"

**WINDLOAD ENGINEER:**  
 Mark Disosway, PE  
 No.53915, PCB 668, Lke City, FL 32056,  
 386-754-5419

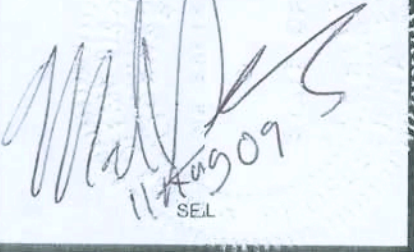
**DIMENSIONS:**  
 Stated dimensions supcede scaled  
 dimensions. Refer all questions to  
 Mark Disosway, P.E. for resolution.  
 Do not proceed without clarification.

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 property right in these instruments of service.  
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 or copied in any form c 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 2007,  
 to the best of my knowledge.

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

MARK DISOSWAY  
 P.E. 53915



11/26/09  
 SEL

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 Residence

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 Lake City, Florida 32055

Mark Disosway P.E.  
 P.O. Box 868  
 Lake City, Florida 32056  
 Phone: (386) 754 - 5419  
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PRINTED DATE:  
 August 11, 2009

DRAWN BY: David Disosway      STRUCTURAL BY: David Disosway

FINALS DATE:  
 23Jun09

JOB NUMBER:  
 904146

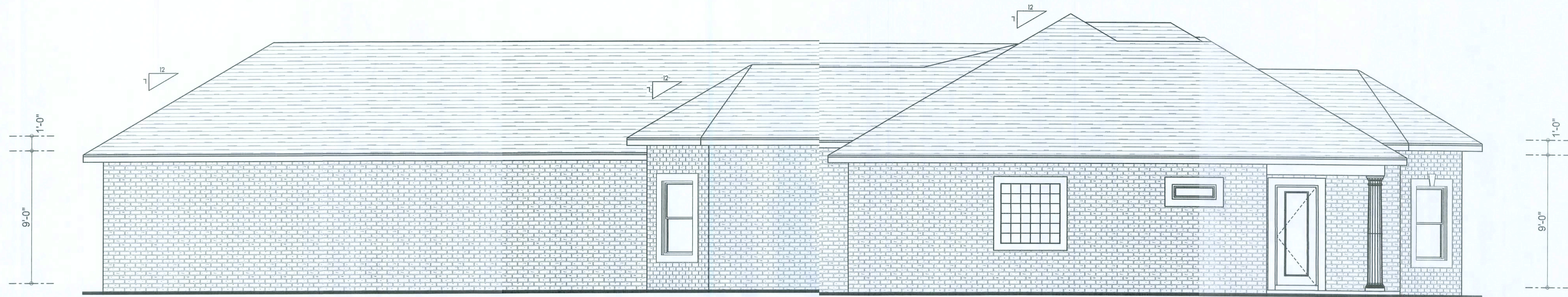
DRAWINGNUMBER  
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OF 7 SHEETS



REVISIONS	

SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE



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



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

**WINDLOAD ENGINEER:**  
Mark Disosway, P.E.  
No. 53915, P.O. Box 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 RS01.2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOSWAY  
P.E. 53915  
*[Signature]*  
SEAL

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PRINTED DATE:  
August 11, 2009

DRAWN BY: David Disosway	STRUCTURAL BY: David Disosway
-----------------------------	----------------------------------

FINALS DATE: 23Jun09	
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JOB NUMBER: 904116
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DRAWING NUMBER
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2

OF 7 SHEETS







REVISIONS	

SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE

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

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

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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 R501.2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOWAY  
P.E. 5915

SEL

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Phone: (386) 754 - 5419  
Fax: (386) 269 - 4871

PRINTED DATE:  
July 10, 2009

DRAWN BY: David Disoway  
STRUCTURAL BY: David Disoway

FINALS DATE:  
23Jun09

JOB NUMBER:  
904146

DRAWINGNUMBER

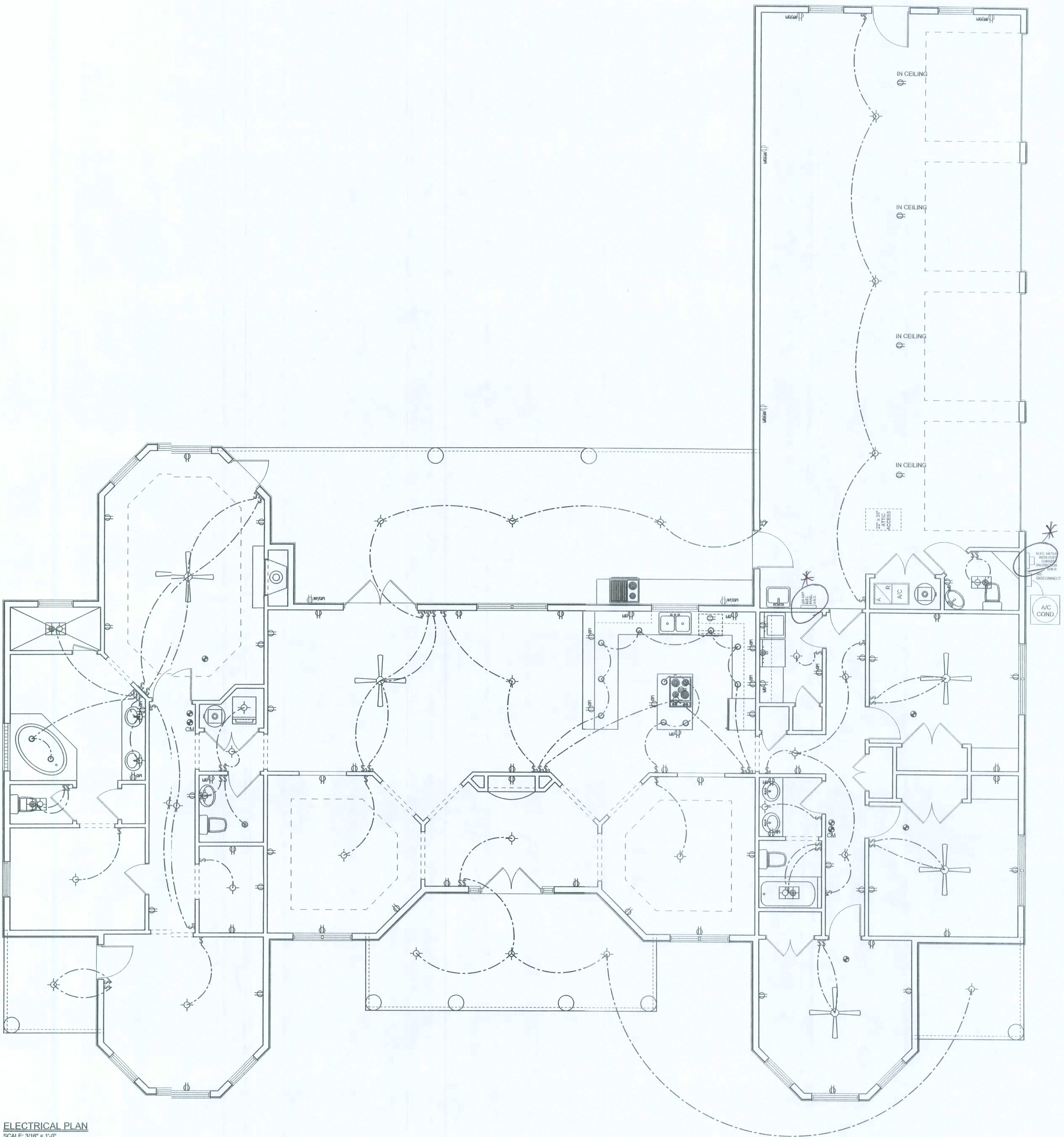
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OF 7 SHEETS

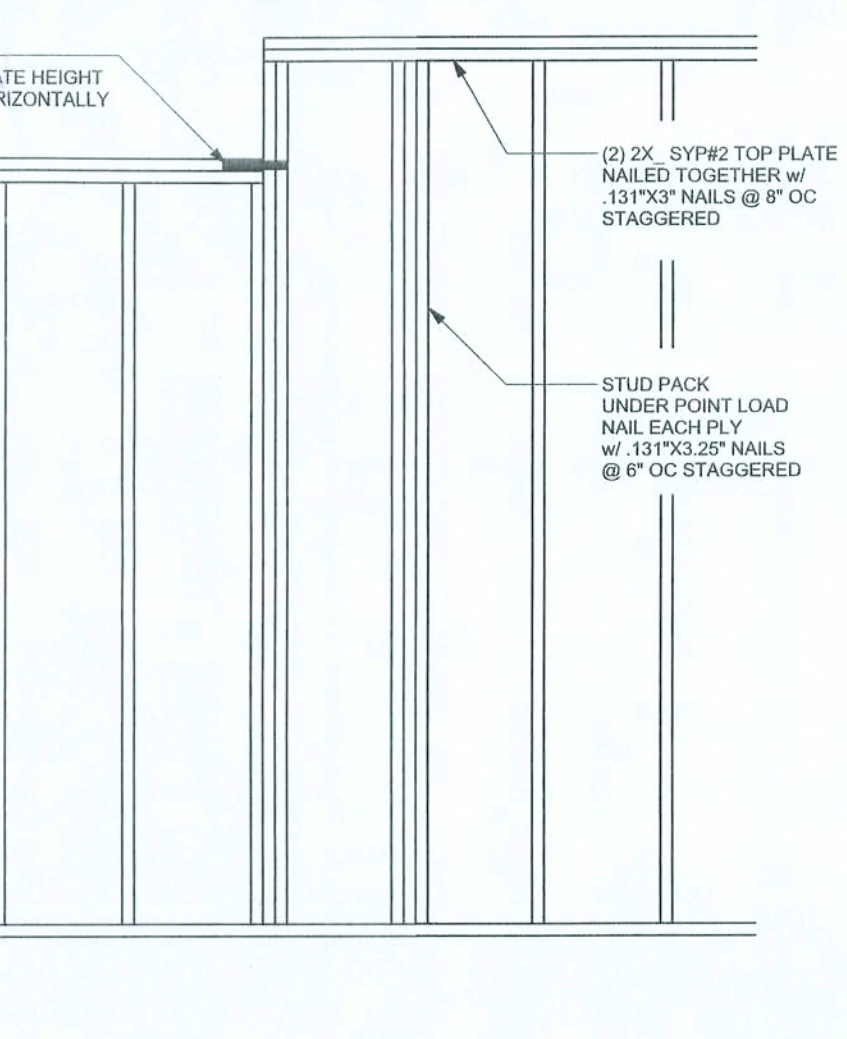
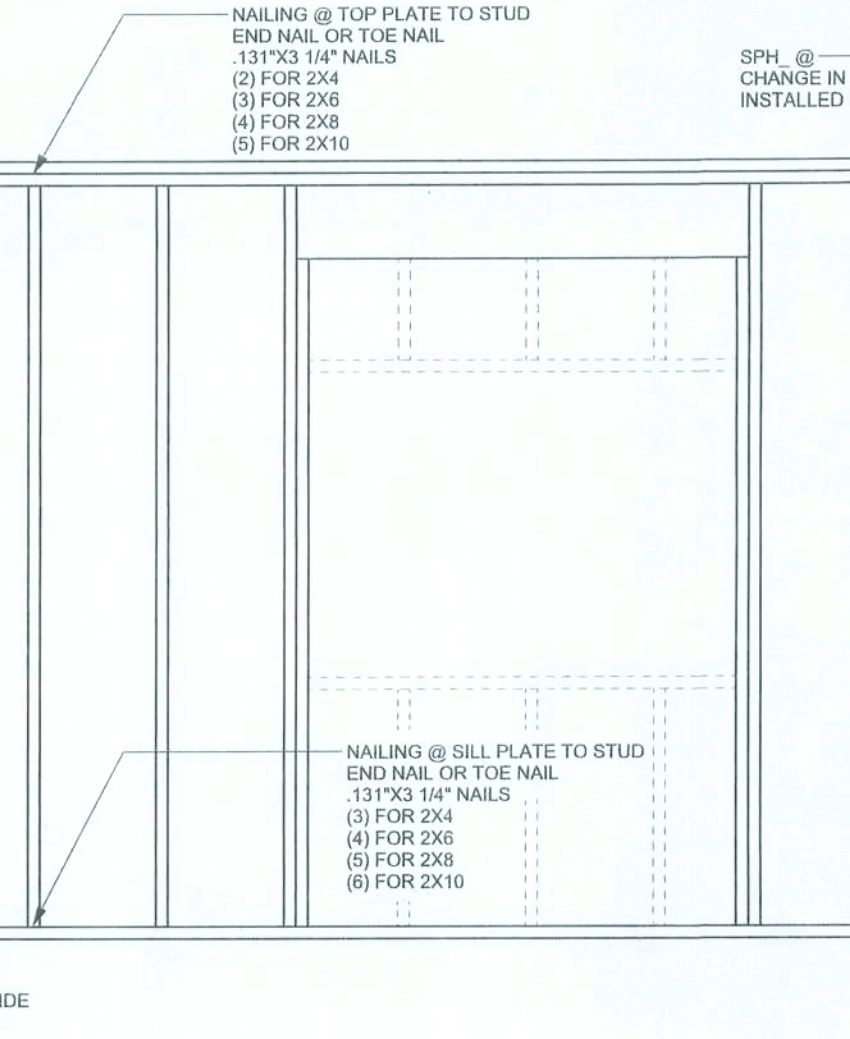
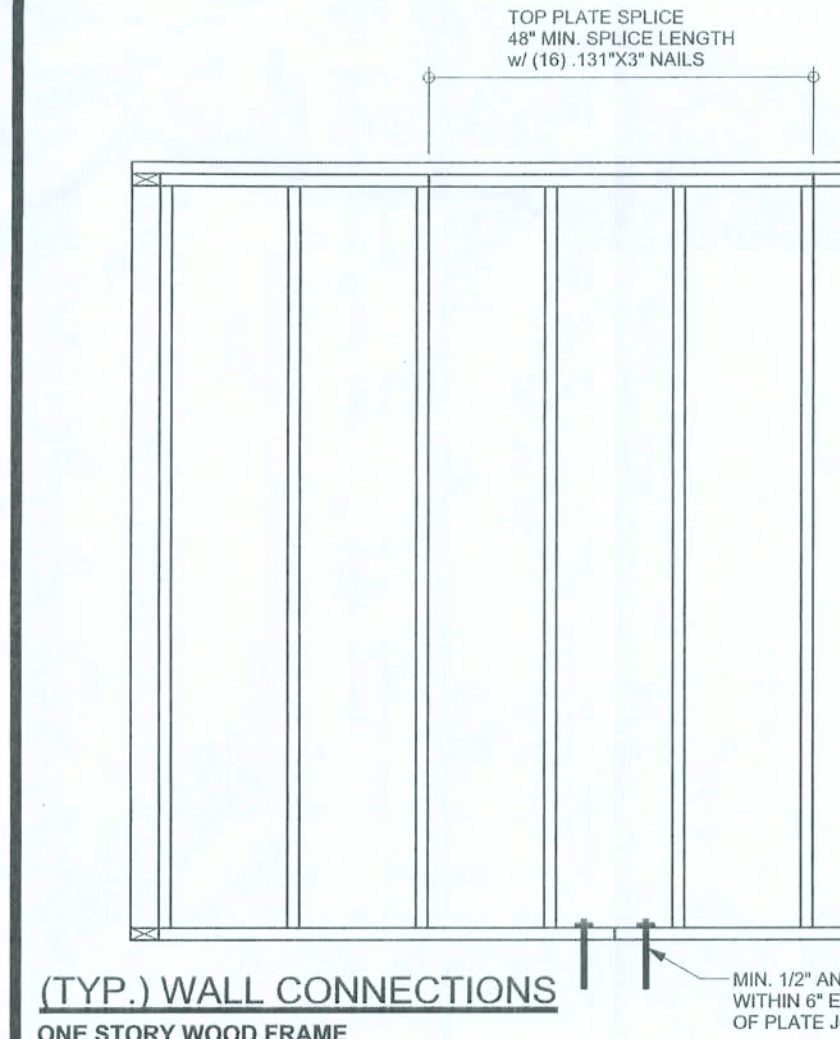
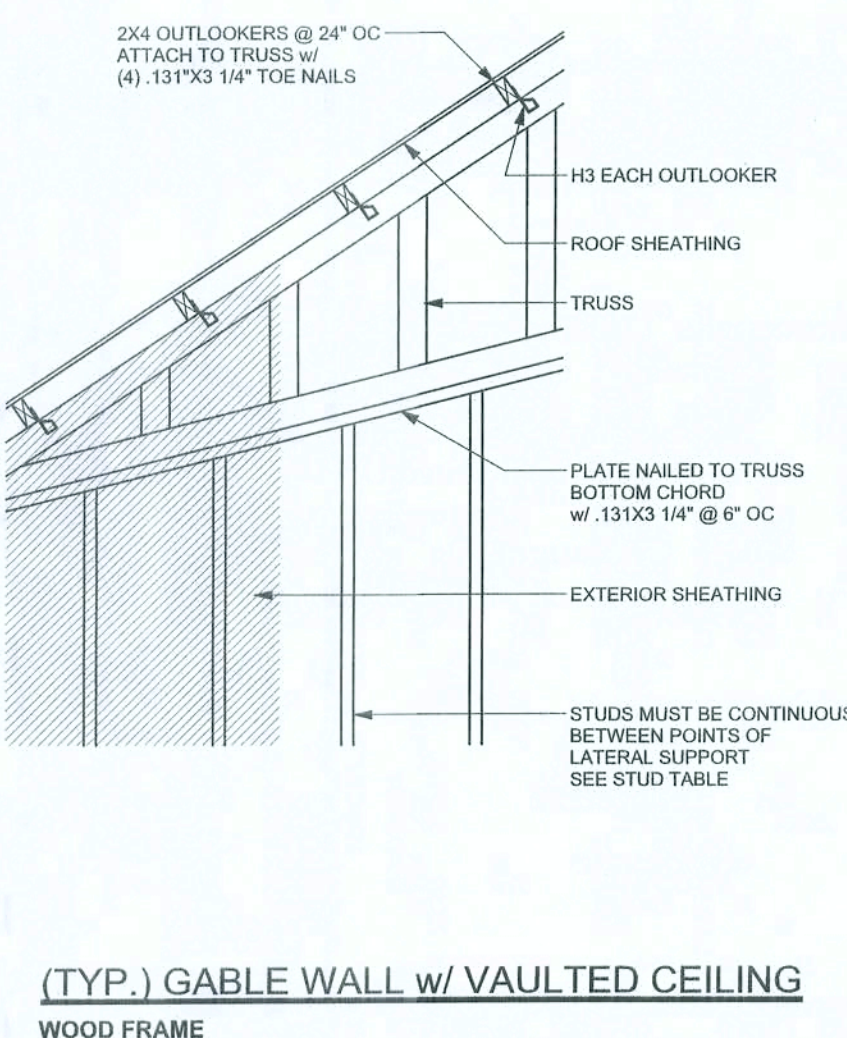
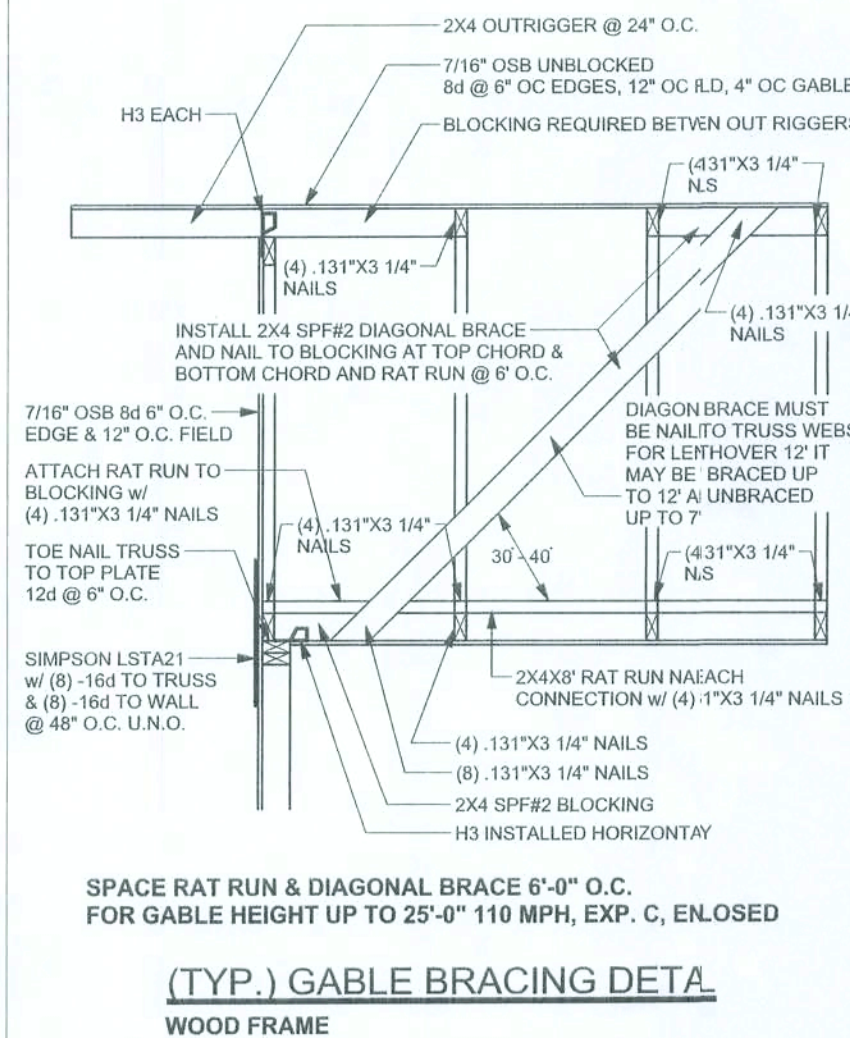
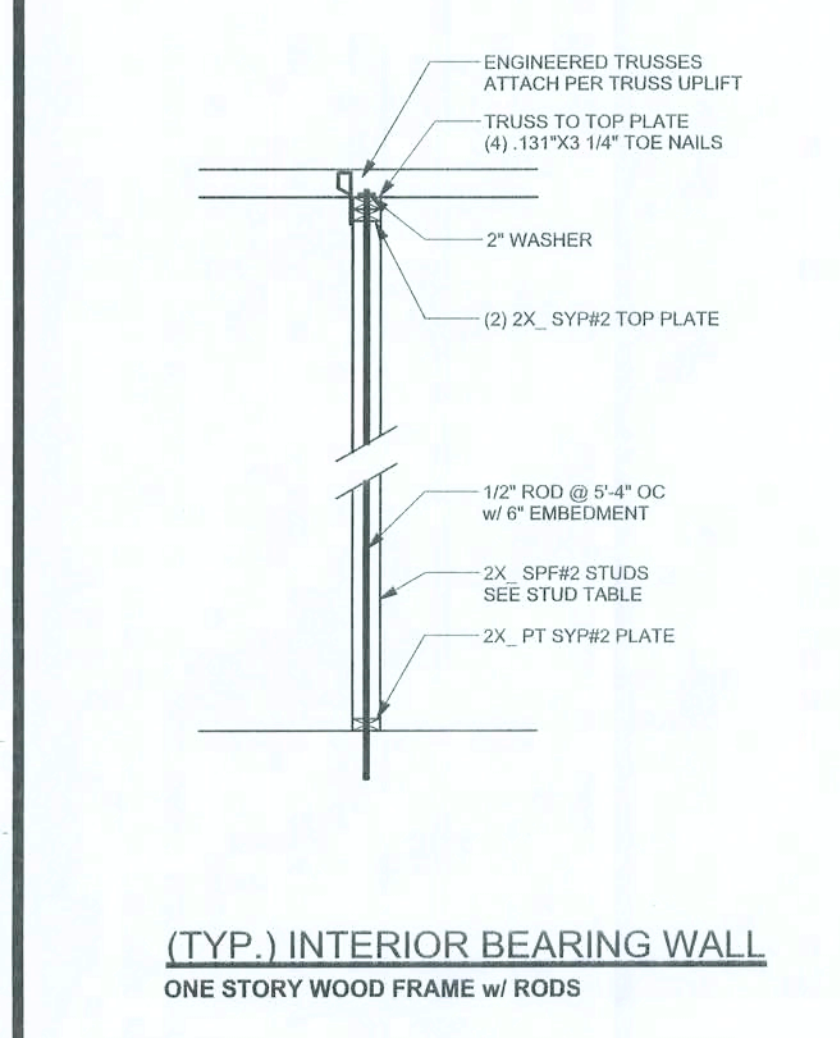
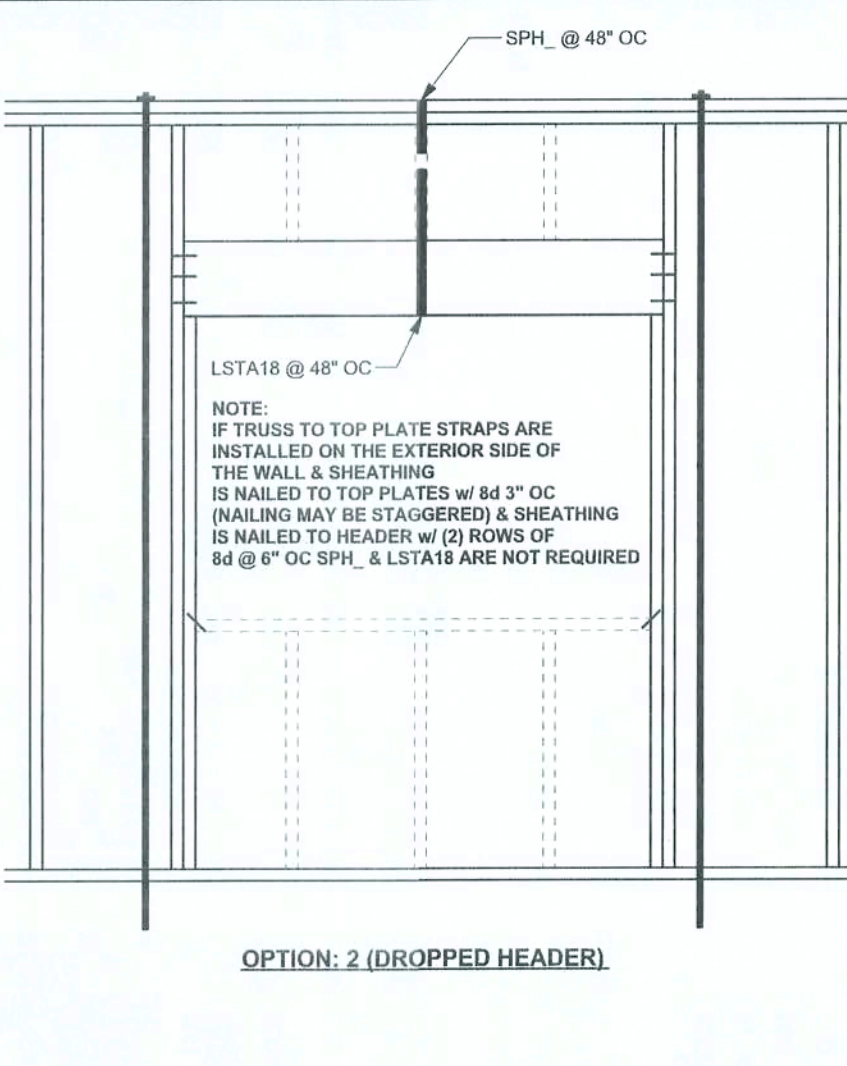
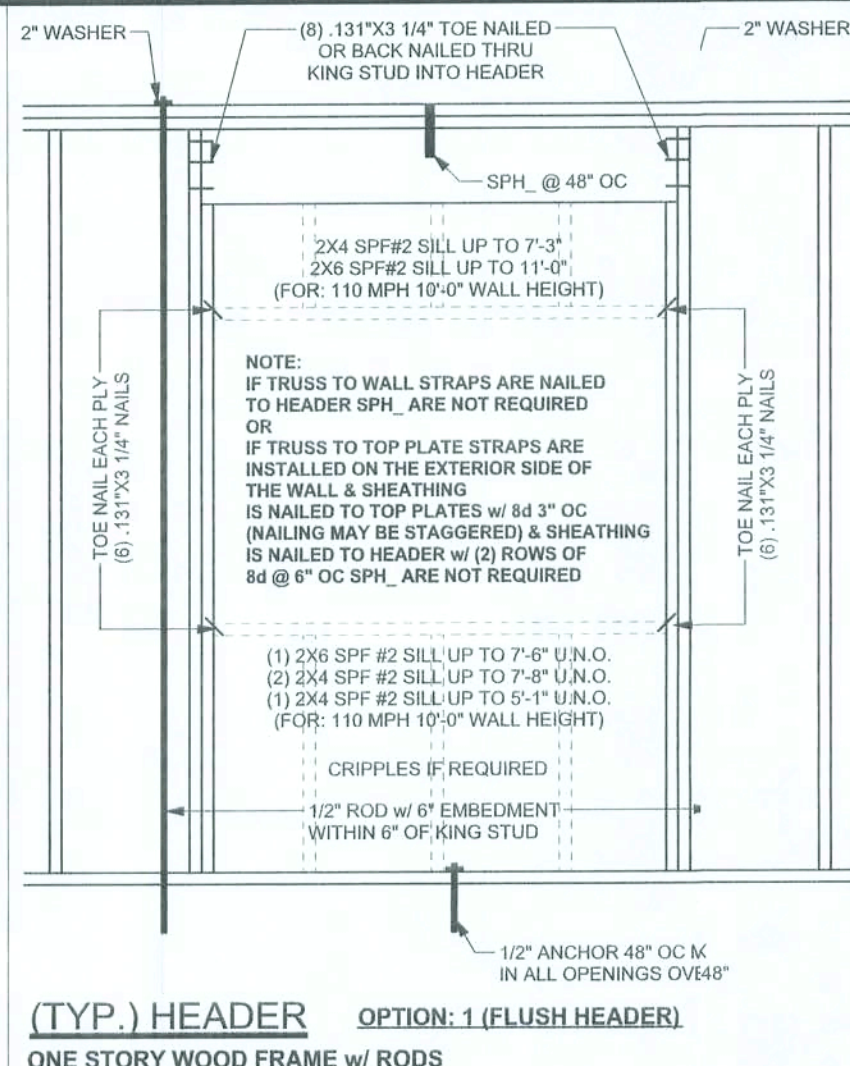
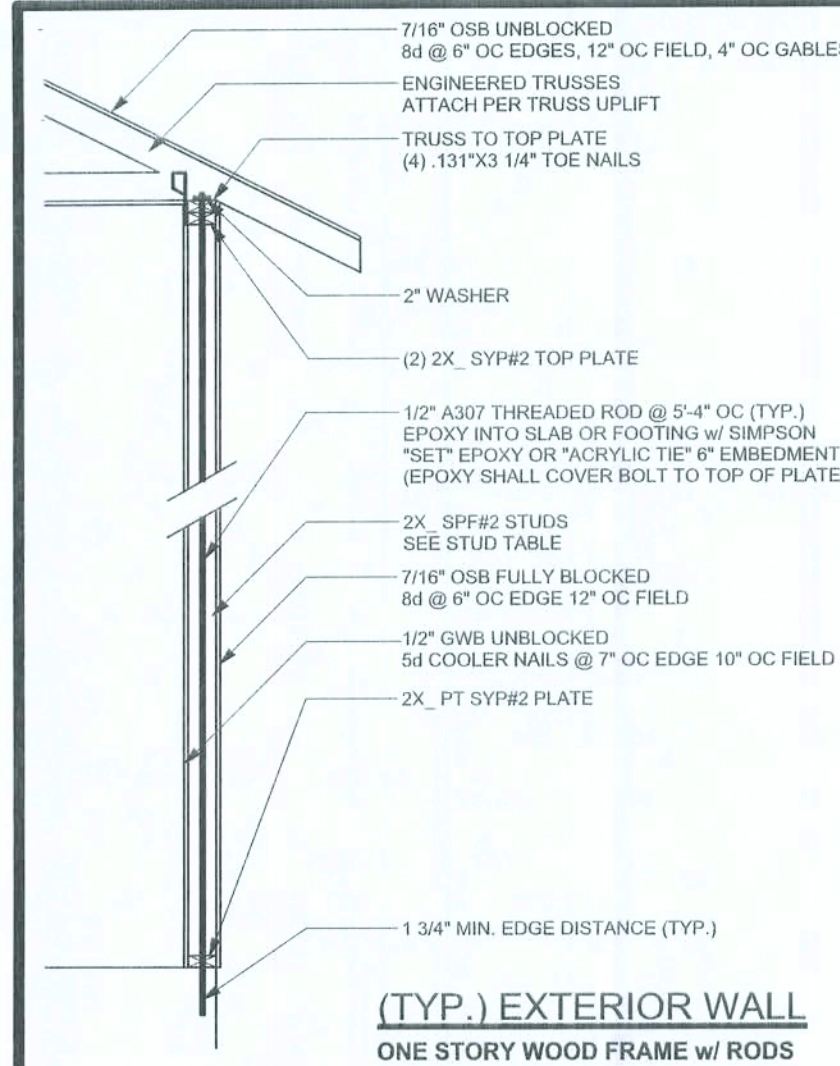
- ELECTRICAL PLAN NOTES**
- E -1 WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
- E -2 CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.
- E -3 ALL INSTALLATIONS SHALL BE PER NAT'L. ELECTRIC CODE.
- E -4 ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.
- E -5 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.
- E -6 ELECTRICAL CONTR SHALL BE RESPONSIBLE FOR THE DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
- E -7 ENTRY OF SERVICE ( UNDERGROUND OR OVERHEAD ) TO BE DETERMINED BY POWER COMPANY.
- E -8 ALL BEDROOM RECEPTACLES SHALL BE AFCI (ARC FAULT CIRCUIT INTERRUPT)
- E -9 ALL OUTLETS TO BE LOCATED ABOVE BASE FLOOD ELEVATION
- E -10 A SERVICE DISCONNECT WITH OVER CURRENT PROTECTION SHALL BE INSTALLED OUTSIDE OF THE BUILDING, ON THE LOAD SIDE OF THE METER, AT THE PLACE ELECTRIC CONDUCTORS ENTER THE BUILDING. SERVICE ENTRANCE CONDUCTORS MAY NOT BE LOCATED INSIDE OF THE OF THE BUILDING WITHOUT SPECIAL APPROVAL OF THE BUILDING OFFICIAL.
- E -11 CARBON MONOXIDE ALARMS SHALL BE REQUIRED WITHIN 10' OF ALL ROOMS FOR SLEEPING PURPOSES IN BUILDINGS HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR ATTACHED GARAGE.

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	2X4 FLUORESCENT LIGHT FIXTURE
	RECESSED CAN LIGHT
	BATH EXHAUST FAN WITH LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220v OUTLET
	GFI DUPLEX OUTLET
	SMOKE DETECTOR
	WALL SWITCH
	3 WAY WALL SWITCH
	4 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	PHONE JACK
	TELEVISION JACK
	GARAGE DOOR OPENER
	CARBON MONOXIDE ALARM

ELECTRICAL PLAN  
SCALE: 3/16" = 1'-0"





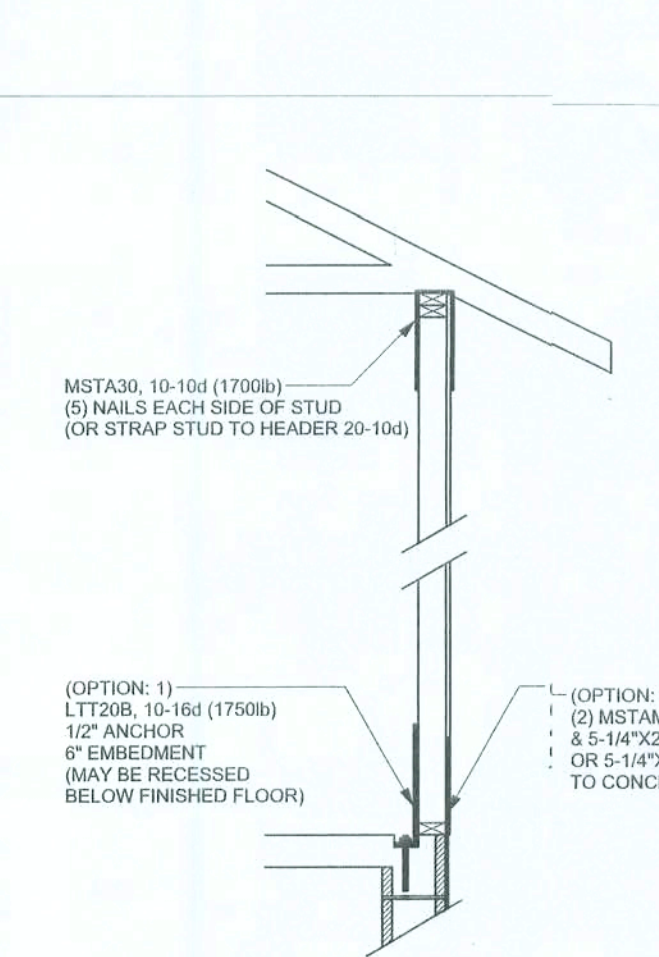


## ANCHOR TABLE

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

TRUSS CONNECTOR	UPLIFT SYF	UPLIFT SPF	F1	F1 SYP	F2 SYP	F1 SPF	F2 SPF	TO RAFTER/TRUSS	TO PLATES
H5	455	265	1	115	200	100	170	4-8d x 1 1/2"	4-8d x 1 1/2"
H3	415	230	1	125	160	105	140	4-8d x 1 1/2"	4-8d x 1 1/2"
H2.5	415	365	1	150	150	130	130	5-8d x 1 1/2"	5-8d x 1 1/2"
H2.5A	480	480	1	110	110	110	110	5-8d x 1 1/2"	5-8d x 1 1/2"
H6	950	820						8-8d	8-8d
H8	745	565						5-10d x 1 1/2"	5-10d x 1 1/2"
H14-1	1465	1050	5	515	265	480	245	12-8d x 1 1/2"	13-8d
H14-2	1465	1050	5	515	265	480	245	12-8d x 1 1/2"	15-8d
H10	990	850	5	585	525	505	450	8-8d x 1 1/2"	8-8d x 1 1/2"
H10-2	760	655	4	455	395	390	340	6-10d	6-10d
H16	1470	1265						2-10d x 1 1/2"	10-10d x 1 1/2"
H16-2	1470	1265						2-10d x 1 1/2"	10-10d x 1 1/2"
LTS12 - LTS20	1000	620						6-10d x 1 1/2"	6-10d x 1 1/2"
MTS12 - MTS30	1000	860						7-10d x 1 1/2"	7-10d x 1 1/2"
HTS16 - HTS30	1450	1245						12-10d x 1 1/2"	12-10d x 1 1/2"
<b>HEAVY GIRDER TIEDOWNS</b>									
LG72	2050	1785	7	700	170	700	170	14-16d	14-16d
LG73-SDS2.5	3885	2655	7	795	410	795	410	12-SDS 1/4" x 2 1/2"	26-16dS
LG74-SDS3	4080	3860	20	2000	675	2000	675	12-SDS 1/4" x 3"	36-16dS
MG7	3965	3330						22-10d	5/8" ANCHOR
HGT-2	10980	6485						16-10d	2-5/8" ANCHOR
HGT-3	10530	9035						16-10d	2-5/8" ANCHOR
HGT-4	9250	8250						16-10d	2-5/8" ANCHOR
<b>STUD STRAP CONNECTOR</b>									
SSP DOUBLE TOP PLATE	435	435						3-10d	4-10d
SSP SINGLE SILL PLATE	455	420						1-10d	4-10d
DSP DOUBLE TOP PLATE	825	825						6-10d	8-10d
DSP SINGLE SILL PLATE	825	600						2-10d	8-10d
SP1	585	535						4-10d	8-10d
SP2	1065	605						6-10d x 1 1/2"	8-10d
SP4	885	760						10-10d x 1 1/2"	10-10d x 1 1/2"
SP4H	1240	1065						10-10d x 1 1/2"	10-10d x 1 1/2"
SP6	885	760						10-10d x 1 1/2"	10-10d x 1 1/2"
SP6H	1240	1065						14-10d	14-10d
LSTA18	1235	1110						16-10d	16-10d
LSTA21	1235	1235						14-10d	14-10d
CS20	1030	1030						22-10d	22-10d
CS16	1705	1705							
<b>STUD ANCHORS</b>									
LTT16	1350	1305						8-16d	1/2" ANCHOR
LTT31	2310	2310						18-10d x 1 1/2"	5/8" ANCHOR
H22A	2775	2570						2-5/8" BOLTS	5/8" ANCHOR
HTT16	4175	3695						18-16d	5/8" ANCHOR
HTT22	5260	5250						32-16d	5/8" ANCHOR
ABU44	2200	2200						12-16d	5/8" ANCHOR
ABU66	2300	2300						12-16d	5/8" ANCHOR
ABU88	2320	2320						18-16d	2-5/8" ANCHOR

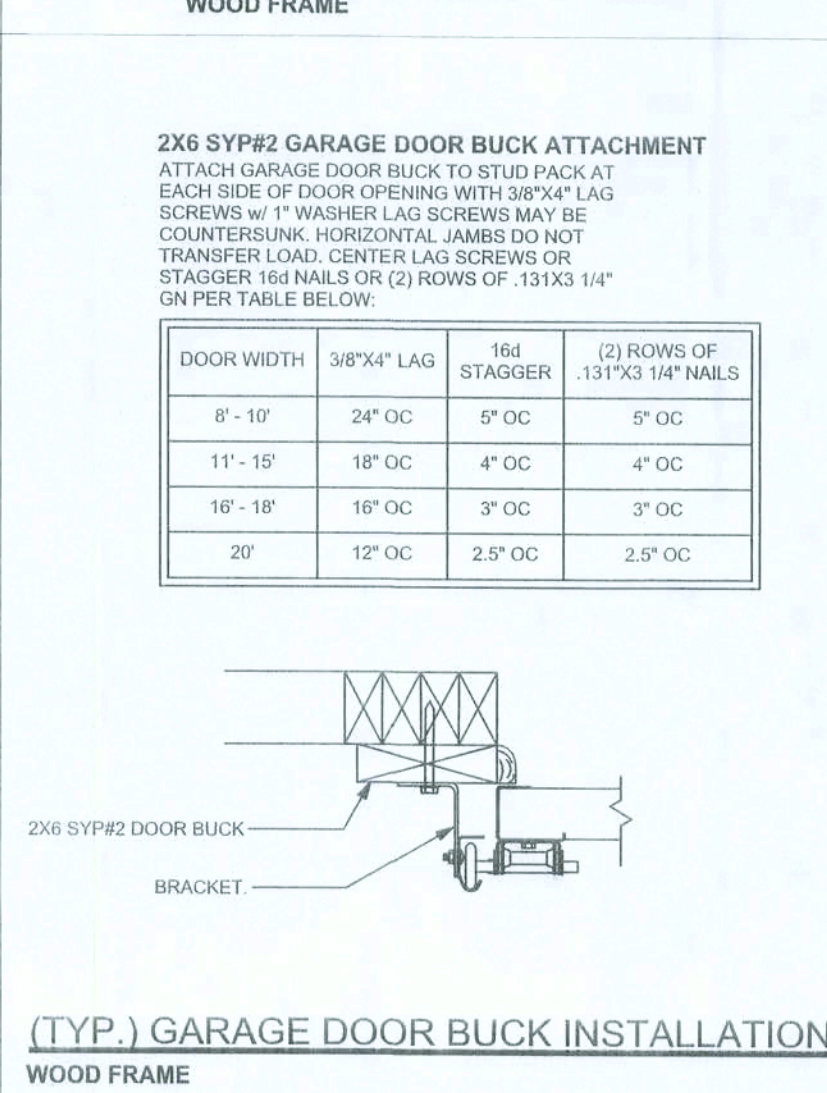
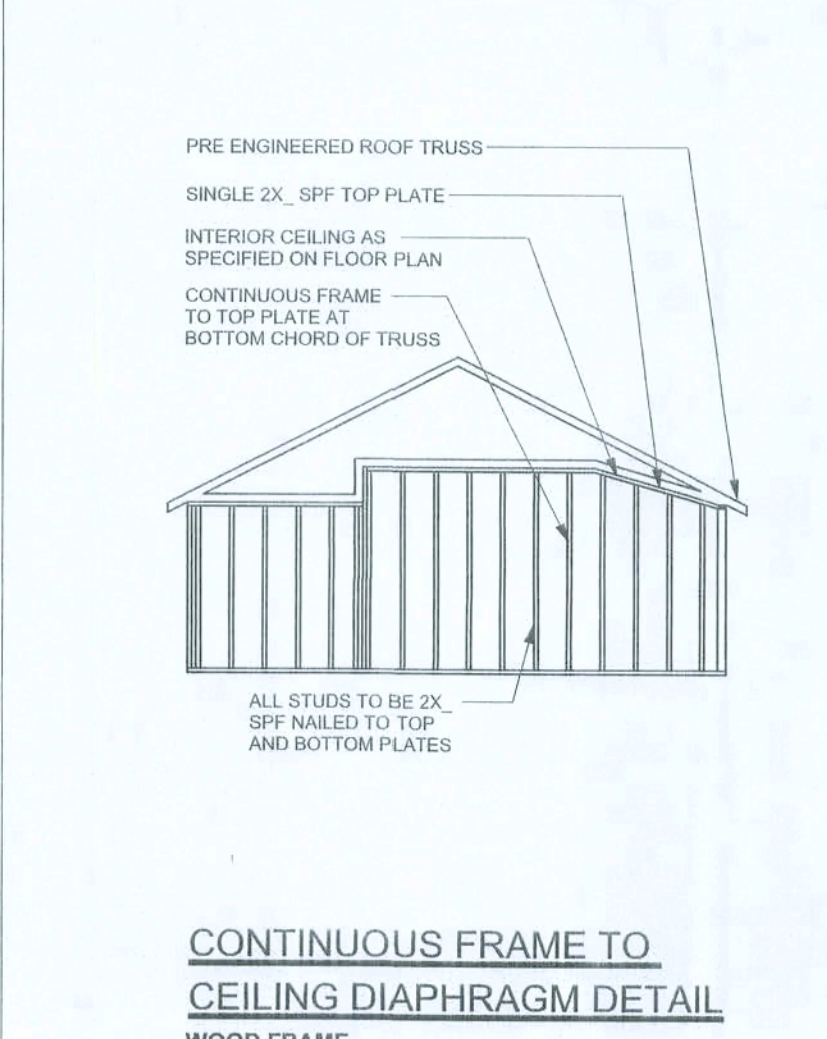
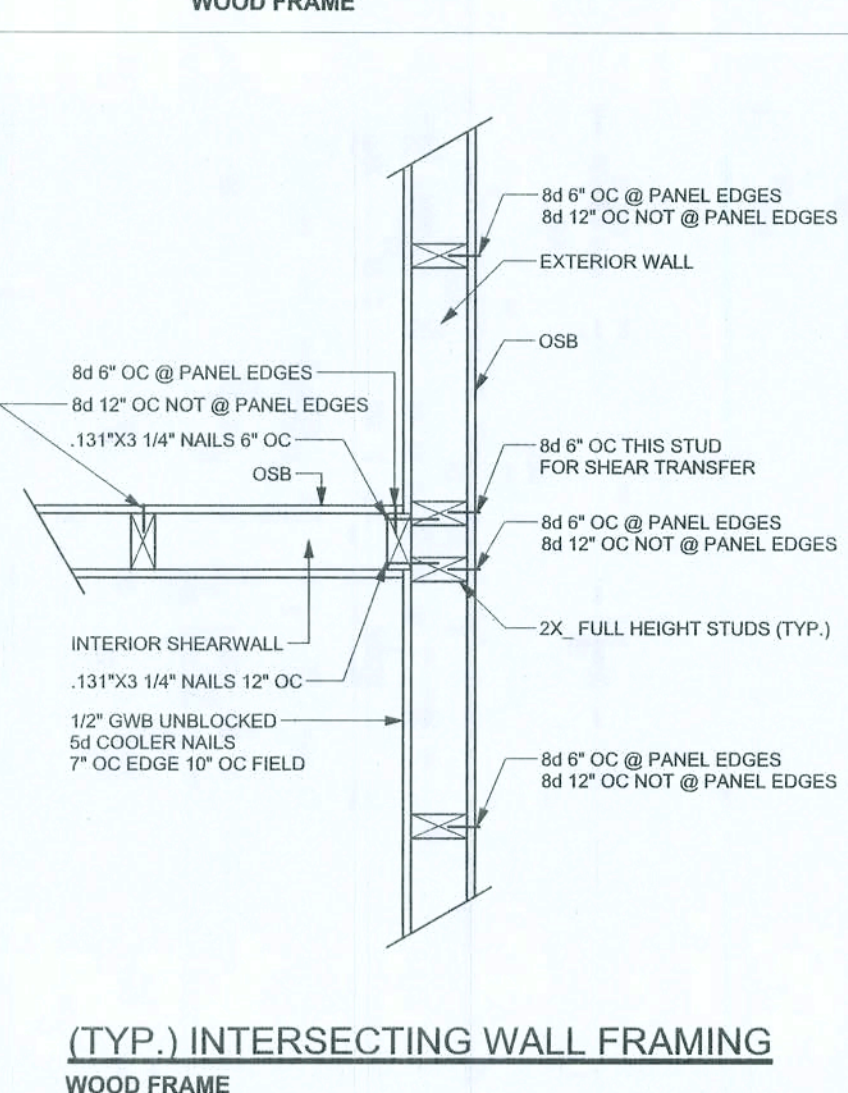
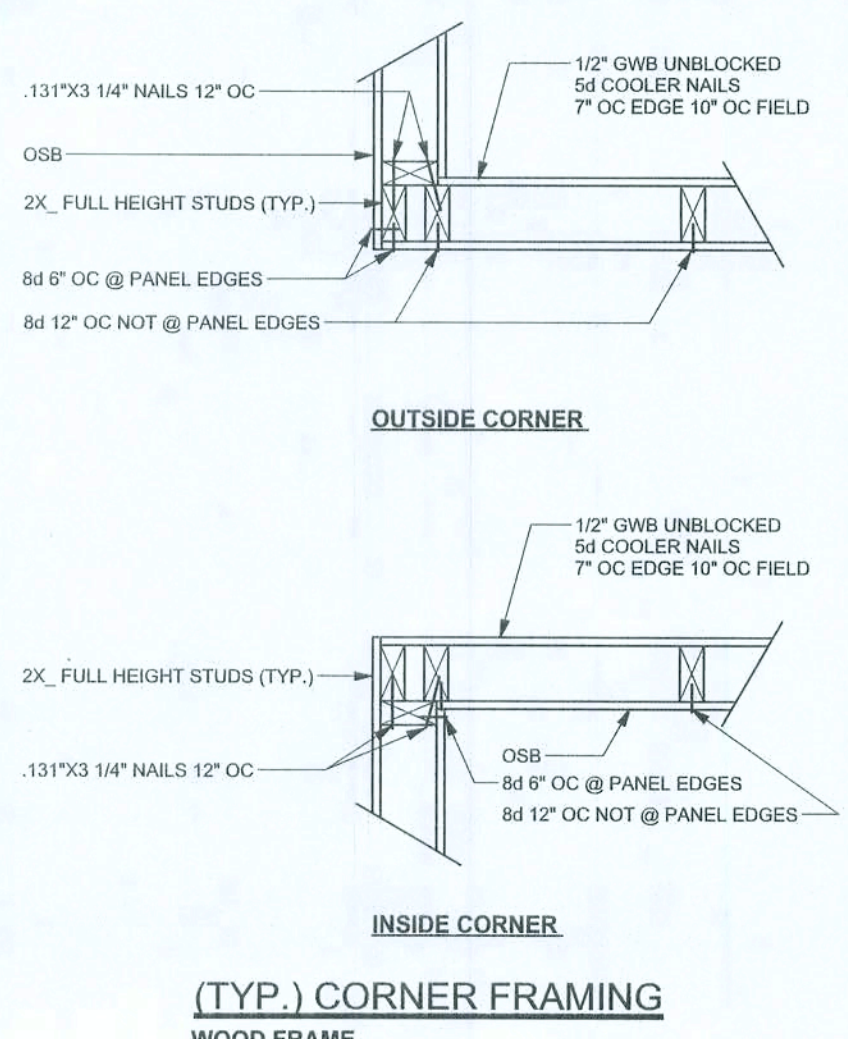
(1) w/ INSTALLATION OF 4-16dS OPTIONAL NAIL HOLES  
(2) FOR SYP GIRDER & SPF STUDS



ALTERNATE CONNECTION WHERE ROD CANNOT BE PLACED IN WALL  
ONE STORY WOOD FRAME w/ RODS



ALLOWABLE UPLIFT:  
1990 LB



## GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCE 2007. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY TO VERIFY THE TRUSS DESIGNER'S FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X4 RATHERS WITH MIN UPLIFT CONNECTIONS ON THE BUILDING STRUCTURE. STRAP 2X4 RATHERS WITH MIN UPLIFT CONNECTIONS ON THE BUILDING STRUCTURE.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN

FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY) UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS,  $f'_c = 3000$  PSI

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4, F18 = 89KSI. WELDED WIRE REINFORCEMENT FABRIC (WWM) CONFORMING TO ASTM A185, LOCATED IN MIDDLE OF THE SLAB, SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3"

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY 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. STUD SPACINGS SHALL BE MULTIPLIED BY 0.85 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING. EXAMPLE: 18" O.C. x 0.85 = 15" O.C.

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS,  $F_y = 60$  KSI. ALL LAP SPICES 4" DB (25" FOR R6 BARS). UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318-08, UNO.

GLULAM BEAMS: GLB, 24F-V3SP,  $F_b = 2.4$  ksi,  $E = 1800$  ksi. UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALC.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS (13d), 2"OC PANEL EDGES, 12"OC INTERMEDIATE MEMBERS. GABLE ENDS AND DIAPHRAGM BOUNDARY, 4"OC, UNO.

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. MANUFACTURER'S 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 9/16", UNO.

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

## 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 SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.

PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCE 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.  
VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

## ROOF SYSTEM DESIGN

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCE 2007, SECTION R301.2.1 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HANDED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBCE 2007 REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO 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 DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT 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.

## DESIGN DATA

WIND LOADS PER FLORIDA BUILDING CODE 2007 RESIDENTIAL, SECTION R301.2.1

(ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. C AND 100% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)

BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE

BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION

- 1) BASIC WIND SPEED = 110 MPH
- 2) WIND EXPOSURE = C
- 3) WIND IMPORTANCE FACTOR = 1.0
- 4) BUILDING CATEGORY = II
- 5) ROOF ANGLE = 10-45 DEGREES
- 6) MEAN ROOF HEIGHT = 30 FT
- 7) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)
- 8) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))

Zone	Effective Wind Area (ft <sup>2</sup> )	10	100
1	27.8 - 30.5	25.3	-25.3
2	27.8 - 35.7	25.3	-30.5
2 Othg	-56.8	-56.8	-56.8
3	27.8 - 35.7	25.3	-30.5
3 Othg	-95.6	-59.3	-59.3
4	30.5 - 33.0	25.9	-28.5
5	30.5 - 40.7	25.9	-31.6
Doors & Windows Worst Case (Zone 5, 10 ft <sup>2</sup> )	30.5	-40.7	
8x7 Garage Door	27.3	-32.0	
16x7 Garage Door	25.9	-29.4	

DESIGN LOADS	
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)	

REVISIONS	

SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE

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Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.  
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CERTIFICATION: I hereby certify that I have examined this plan, and all the applicable portions of the plan, relating to wind engineering compl with section R301.2.1, Florida building code residential 2007, to the best of my knowledge.

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

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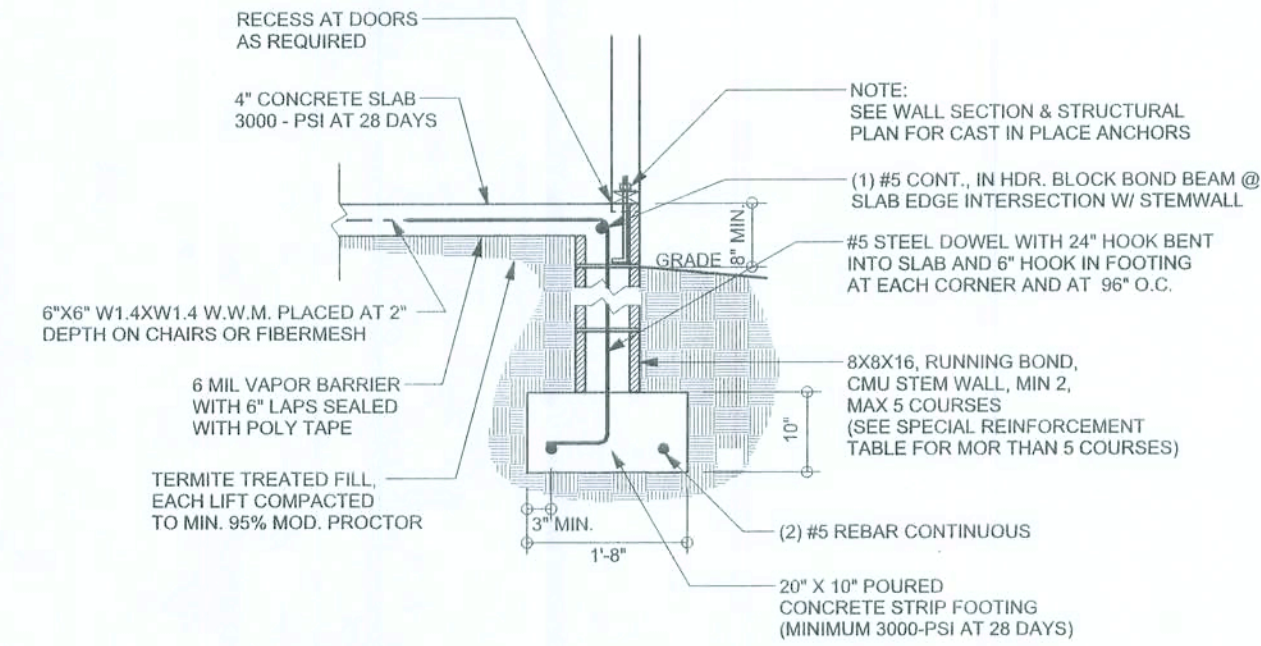
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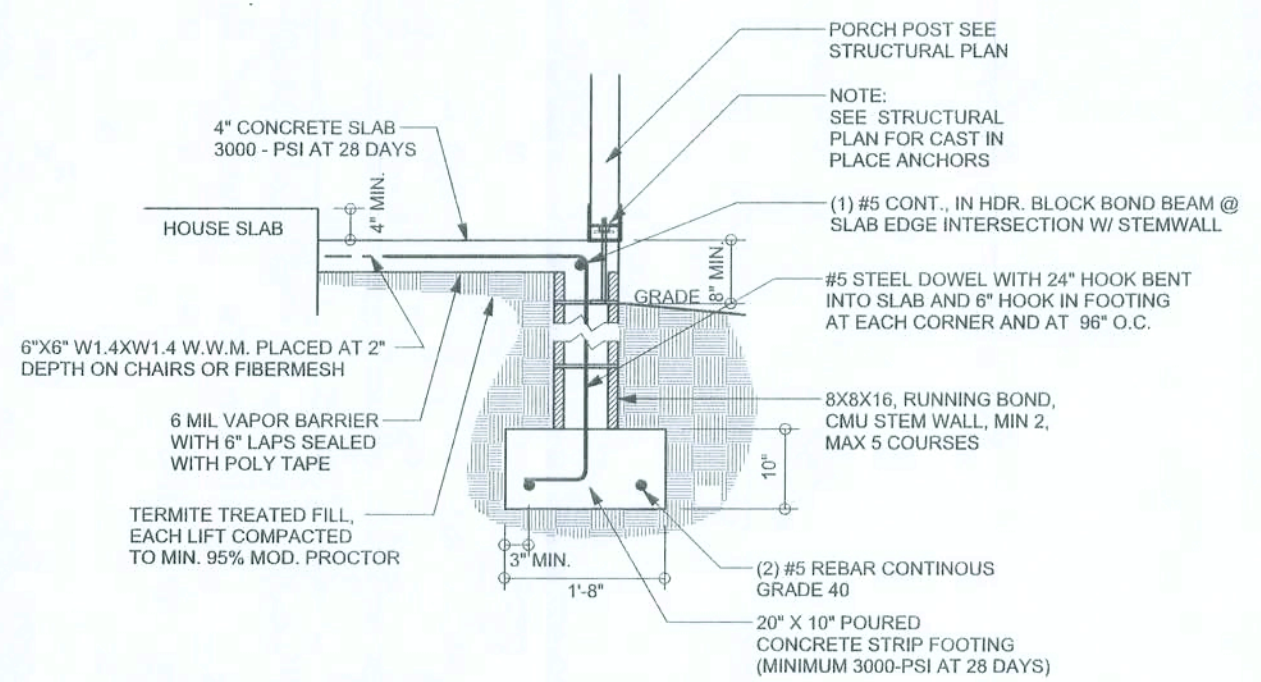
S-1

OF 7 SHEETS

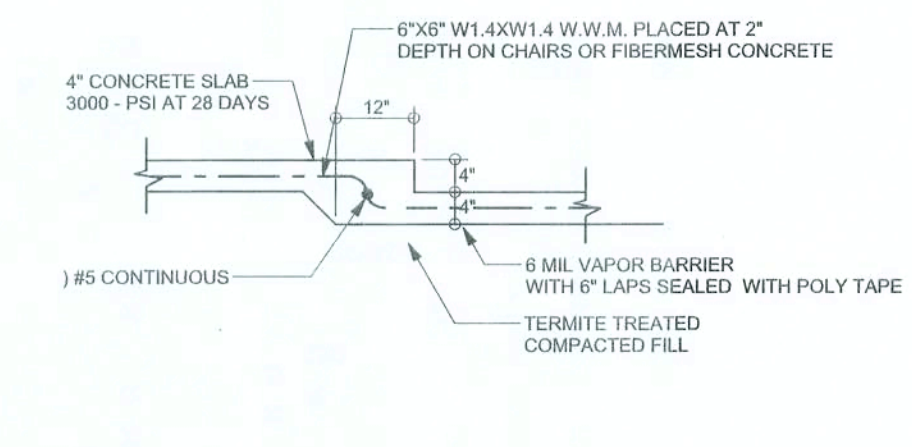




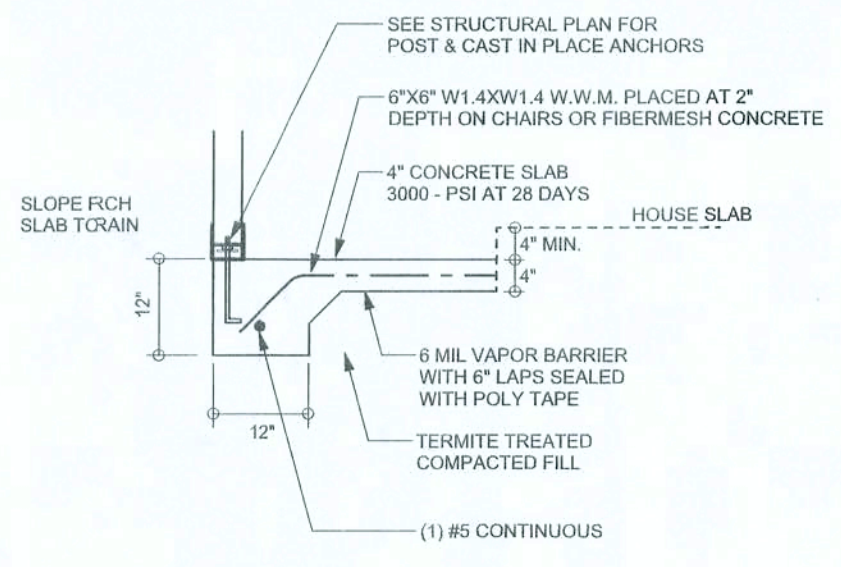
**F9 S-2 STEM WALL FOOTING**  
SCALE: 1/2" = 1'-0"



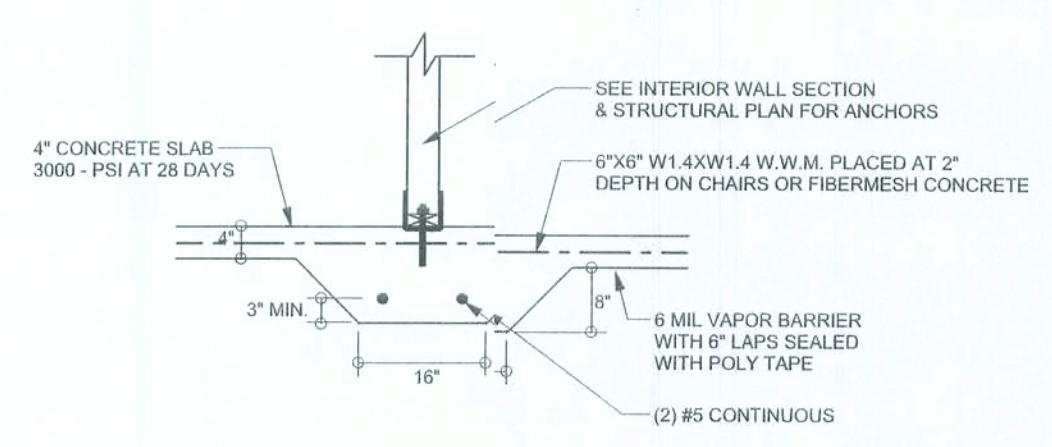
**F12 S-2 STEM WALL PORCH FOOTING**  
SCALE: 1/2" = 1'-0"



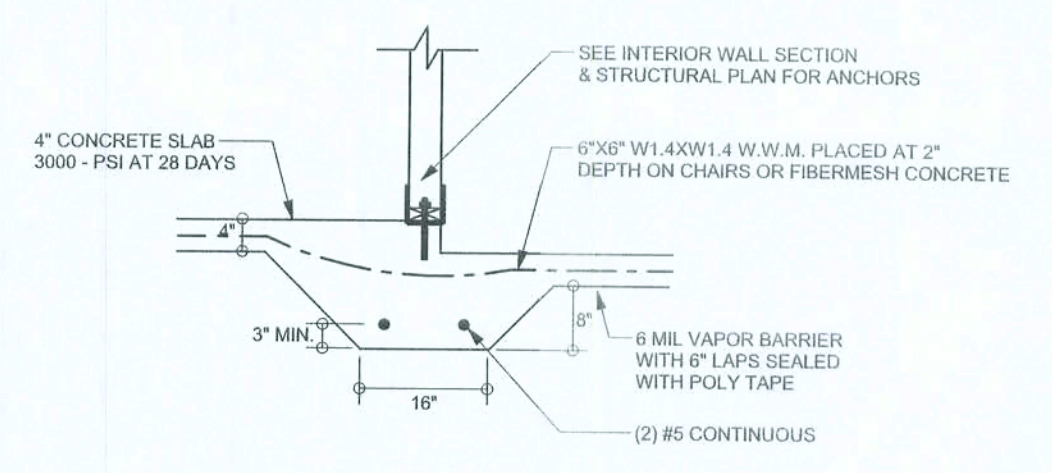
**TYPICAL NON-BEARING STEP FOOTING**  
SCALE: 1/2" = 1'-0"



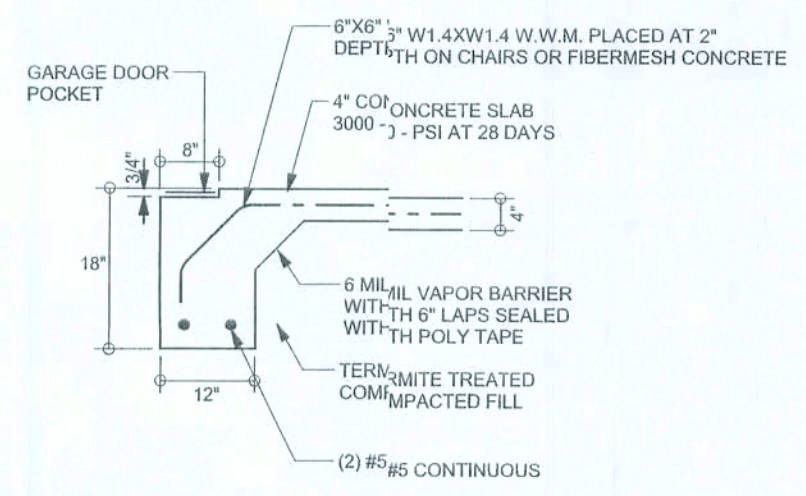
**F5 S-2 PORCH FOOTING**  
SCALE: 1/2" = 1'-0"



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



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

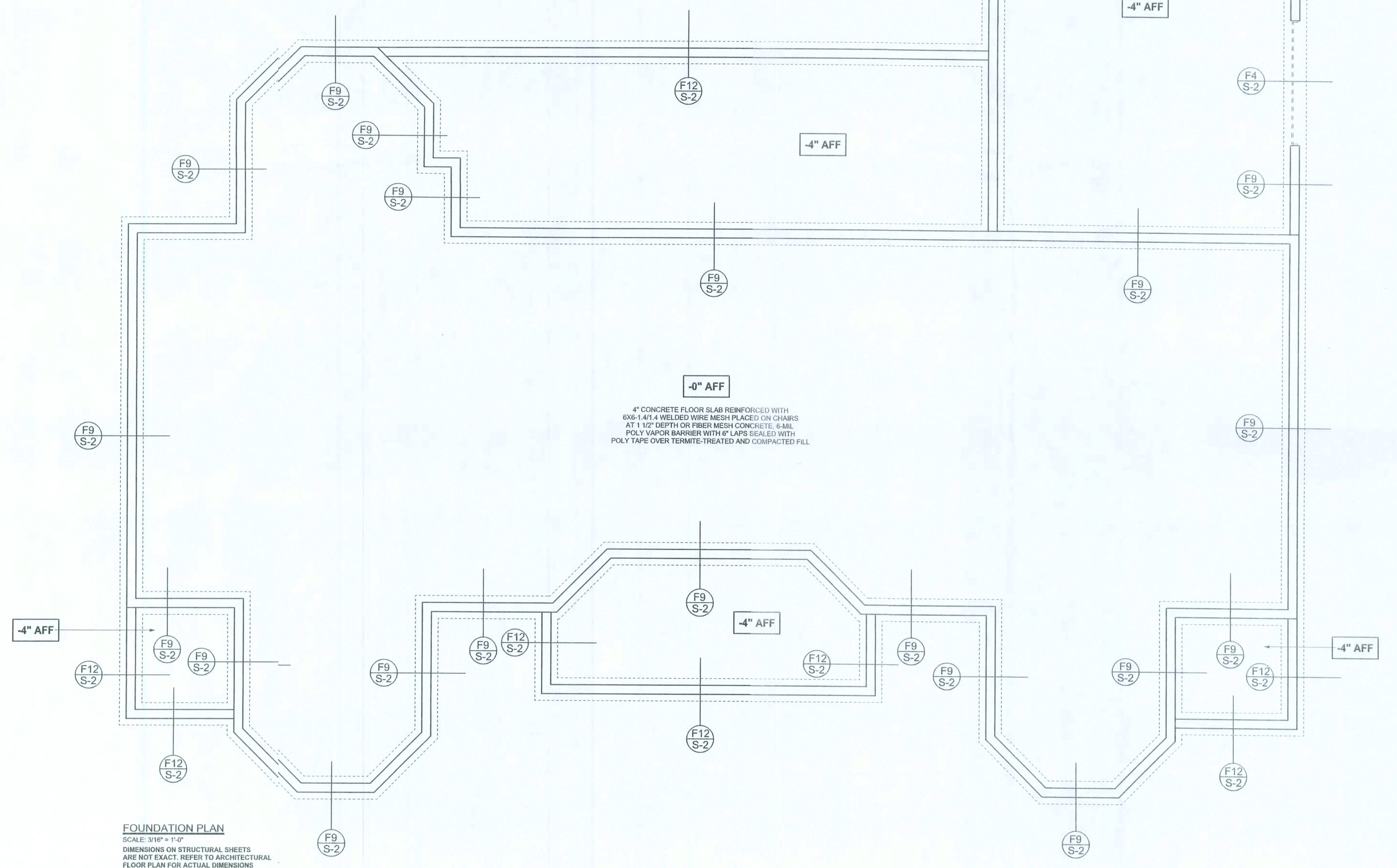


**F4 S-2 GARAGE DOOR FOOTING**  
SCALE: 1/2" = 1'-0"

**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 16" O.C. vertically or a horizontal bond beam with T85 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: 3/16" = 1'-0"  
DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

**REVISIONS**


**SOFTPLAN**  
ARCHITECTURAL DESIGN SOFTWARE

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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 FDOT 2.1, Florida building code residential 2007, to the best of my knowledge.

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

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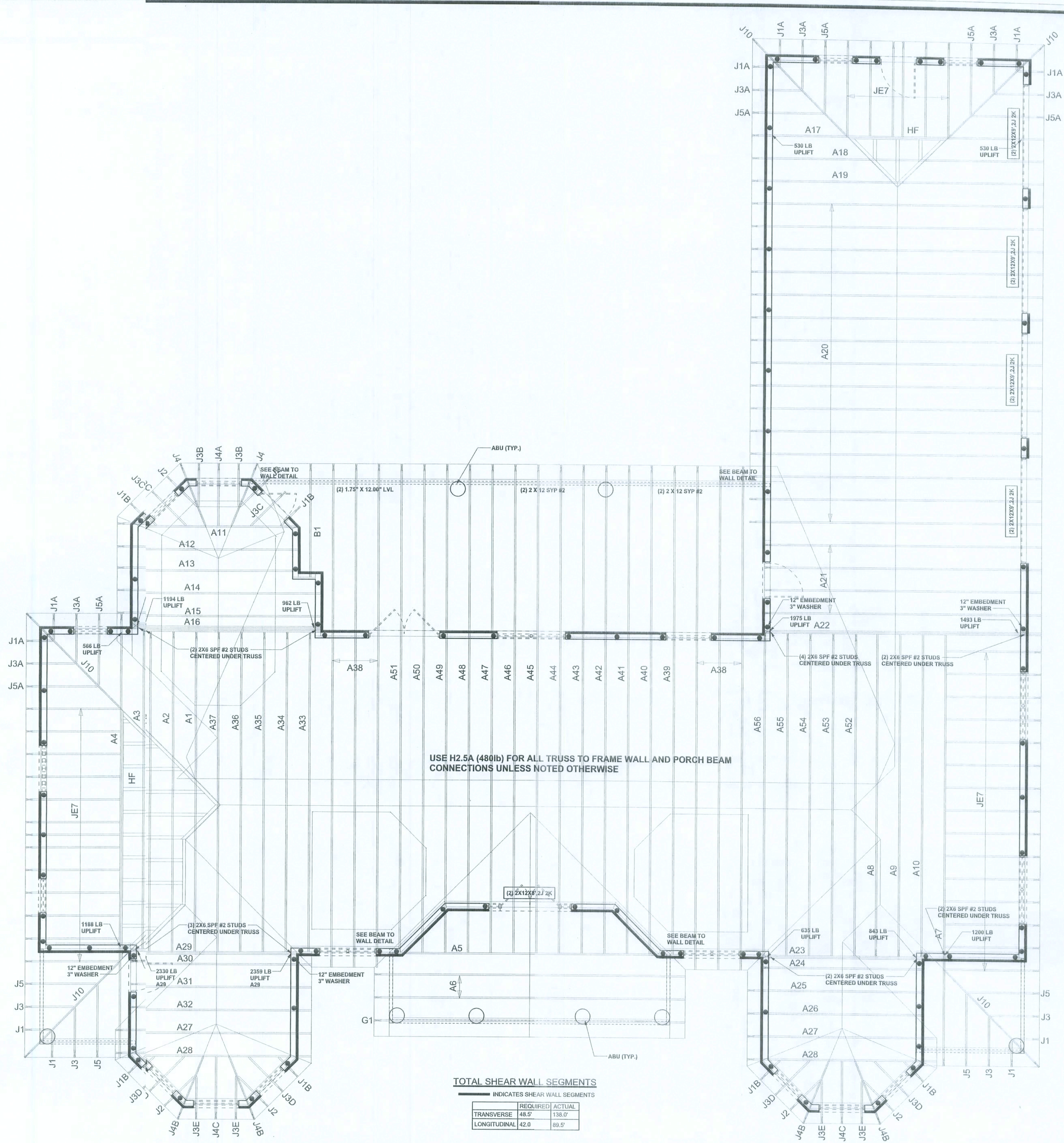
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**DRAWING NUMBER:**  
**S-2**

**OF 7 SHEETS**





STRUCTURAL PLAN  
SCALE: 3/16" = 1'-0"

STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALLS AND PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYP #2 (U.N.O.)
- SN-2 ALL LOAD BEARING FRAME WALLS 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. BRACING IS TO BE RESTRAINED PER BCSD-03. BRACING IS TO BE FURNISHED BY THE TRUSS SUPPLIER WITH THE SEALED TRUSS PACKAGE

THREADED ROD LEGEND

- INDICATES LOCATION OF:  
1ST FLOOR 1/2" A307 ALL THREADED ROD
- INDICATES LOCATION OF:  
2ND FLOOR 1/2" A307 ALL THREADED ROD

HEADER LEGEND

- HEADER/BEAM CALL-OUT (U.N.O.)
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PILES IN HEADER

WALL LEGEND

EXTERIOR WALL
INTERIOR NON-LOAD BEARING WALL
INTERIOR LOAD BEARING WALL w/ NO UPLIFT
INTERIOR LOAD BEARING WALL w/ UPLIFT

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

REVISIONS		

SOFTPLAN  
ARCHITECTURAL DESIGN SOFTWARE

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

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S-3

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