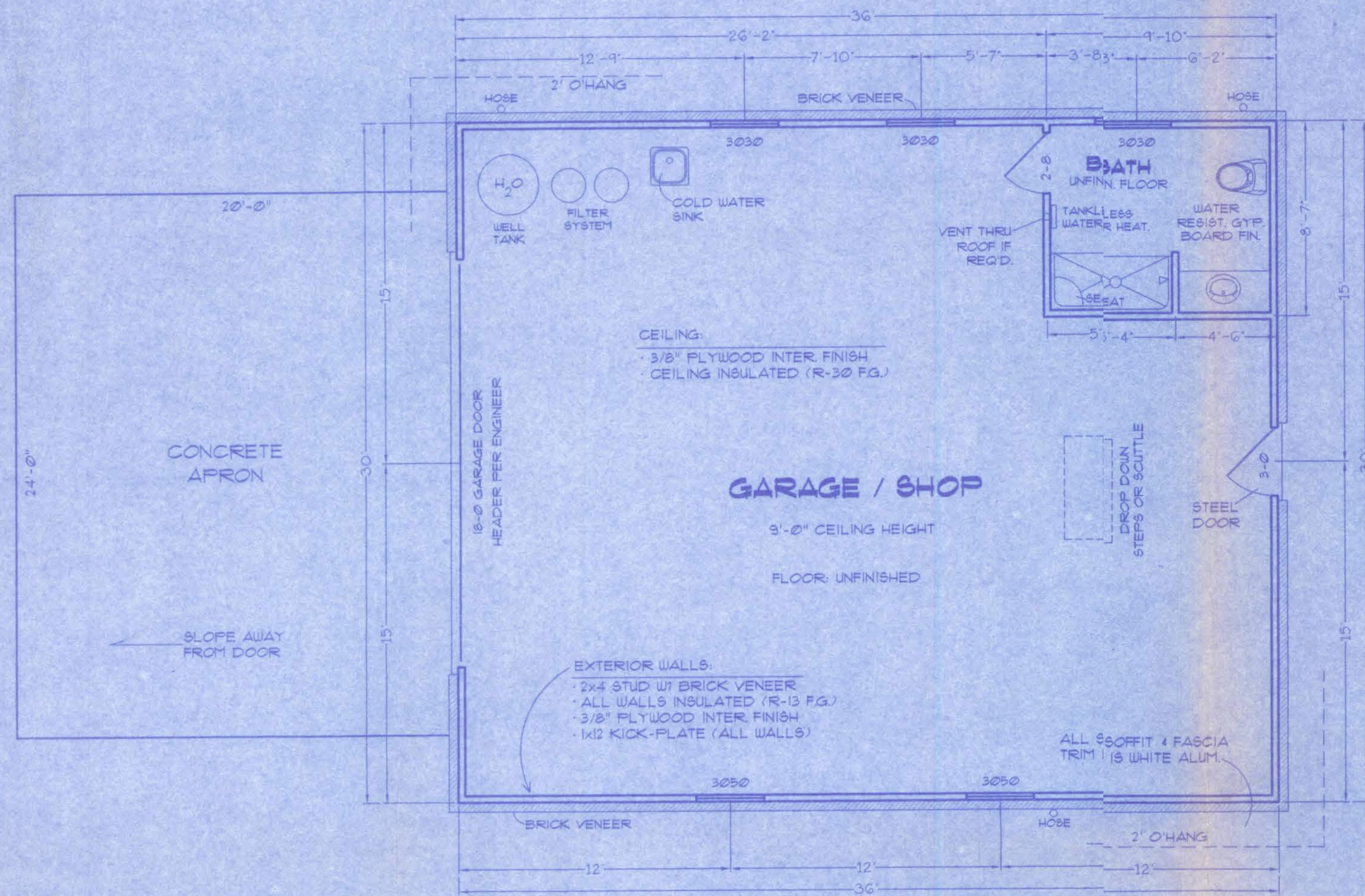
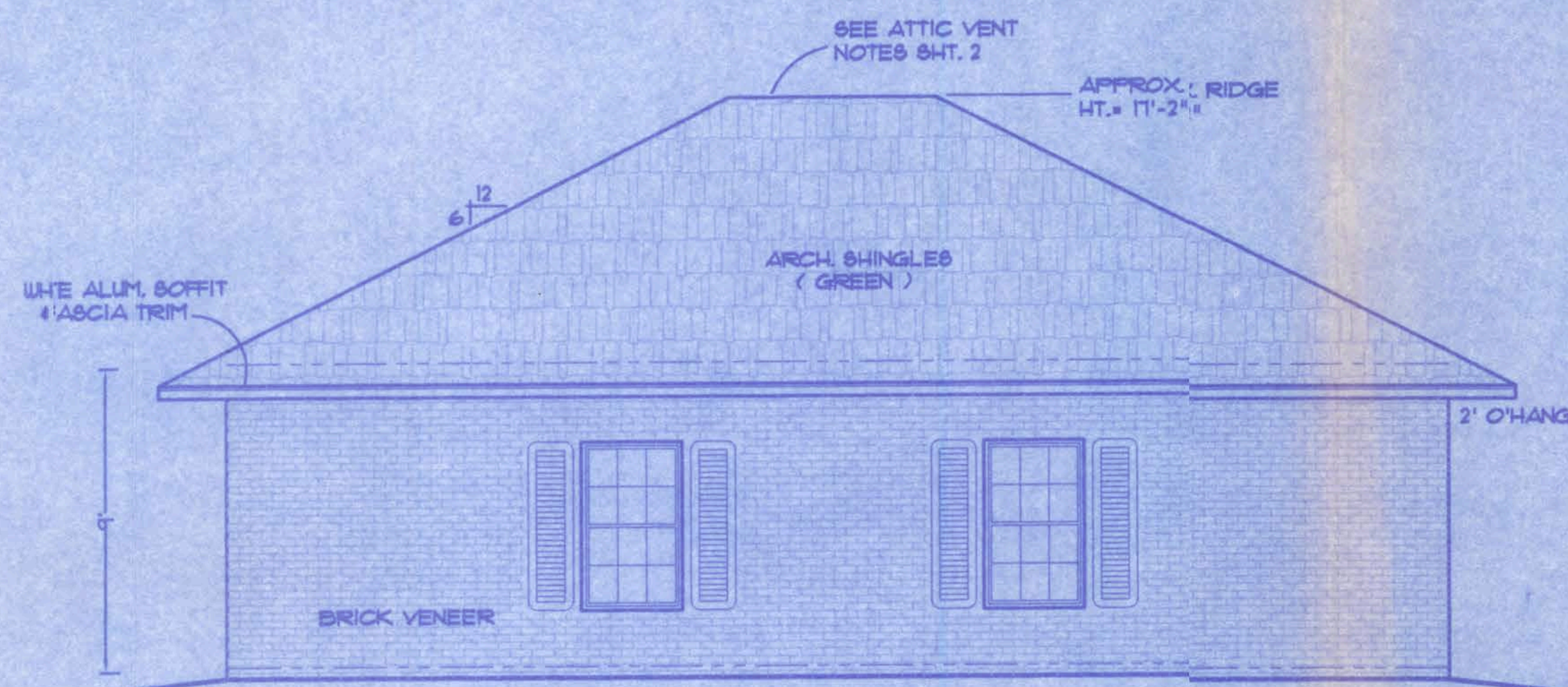


# Boutwell Garage



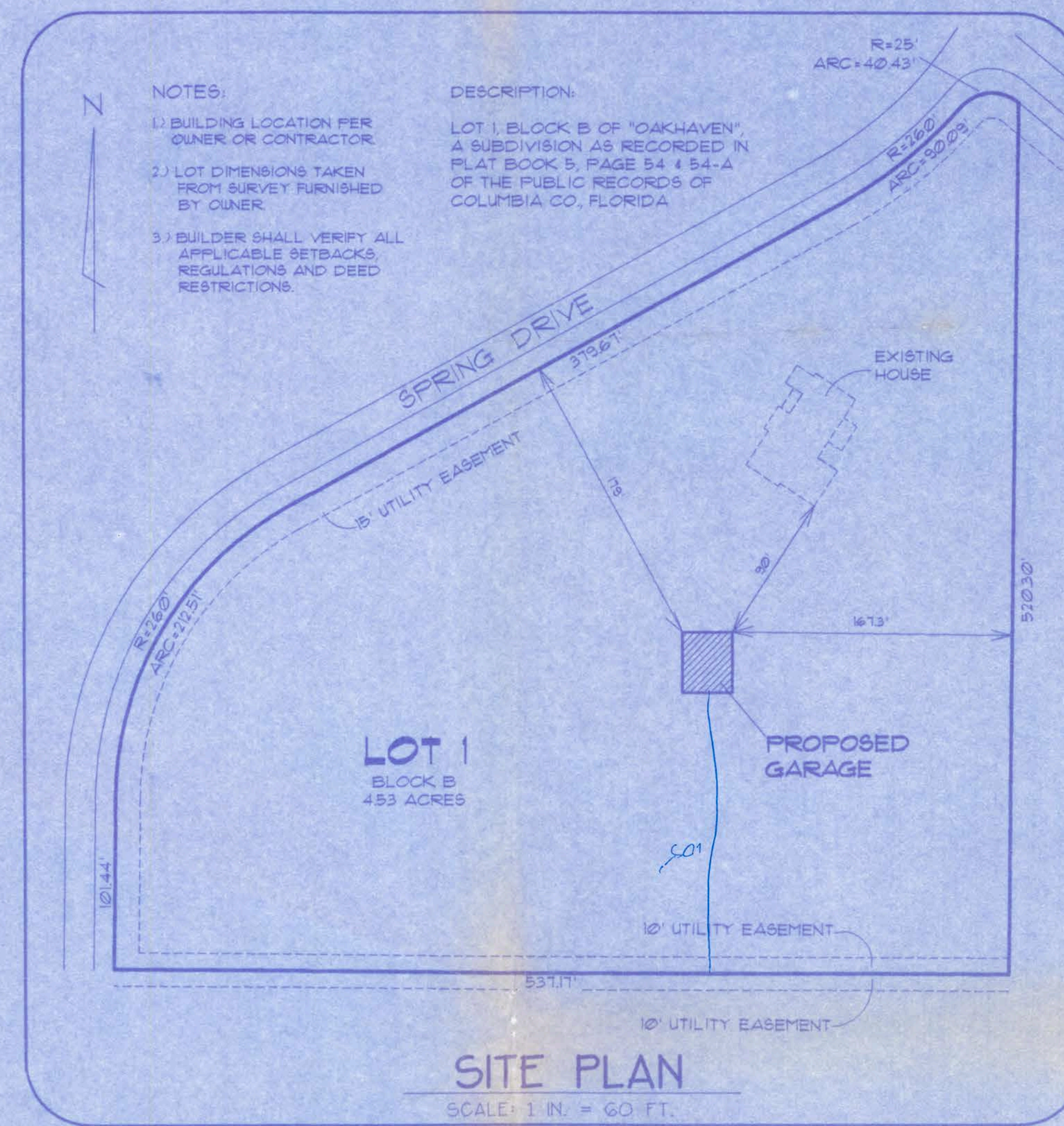
**FLOOR PLAN**

SCALE: 1/4" IN. = 1 FT.



**FRONT ELEVATION**

SCALE: 1/4" IN. = 1 FT.



**SITE PLAN**

SCALE: 1 IN. = 60 FT.

## AREA SUMMARY

GARAGE AREA	1080 SF
TOTAL ROOF	1080 SF
CONC. APRON	480 SF

**SWS** - Indicates a shearwall segment location referring to the labeled section of wall lying between the adjacent window / door openings in either direction. The shearwall areas have a height/width aspect ratio of 3-1/2 : 1 or wider.

## Index to Sheets

SHEET A-1	SITE PLAN + FLOOR PLAN + ELEVATION
SHEET A-2	ELEVATIONS + GEN. NOTES
SHEET A-3	FOUNDATION + SECTIONS
SHEET A-4	ELECTRICAL
SHEET S-1	WIND ENGINEERING

**A-1**

WINDLOAD ENGINEER: Mark Dismay, PE No. 53915, POB 868, Lake City, FL 32056, 386-754-5419

CERTIFICATION: These plans and "Windload Engineering", Sheet S-1, attached, comply with Florida Building Code Residential 2004, Section R301.2.1 to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location, permitted within 90 days of signature date. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

SPRING DRIVE, LAKE CITY, FL  
SEC. 12, T-3-S, R-15-E

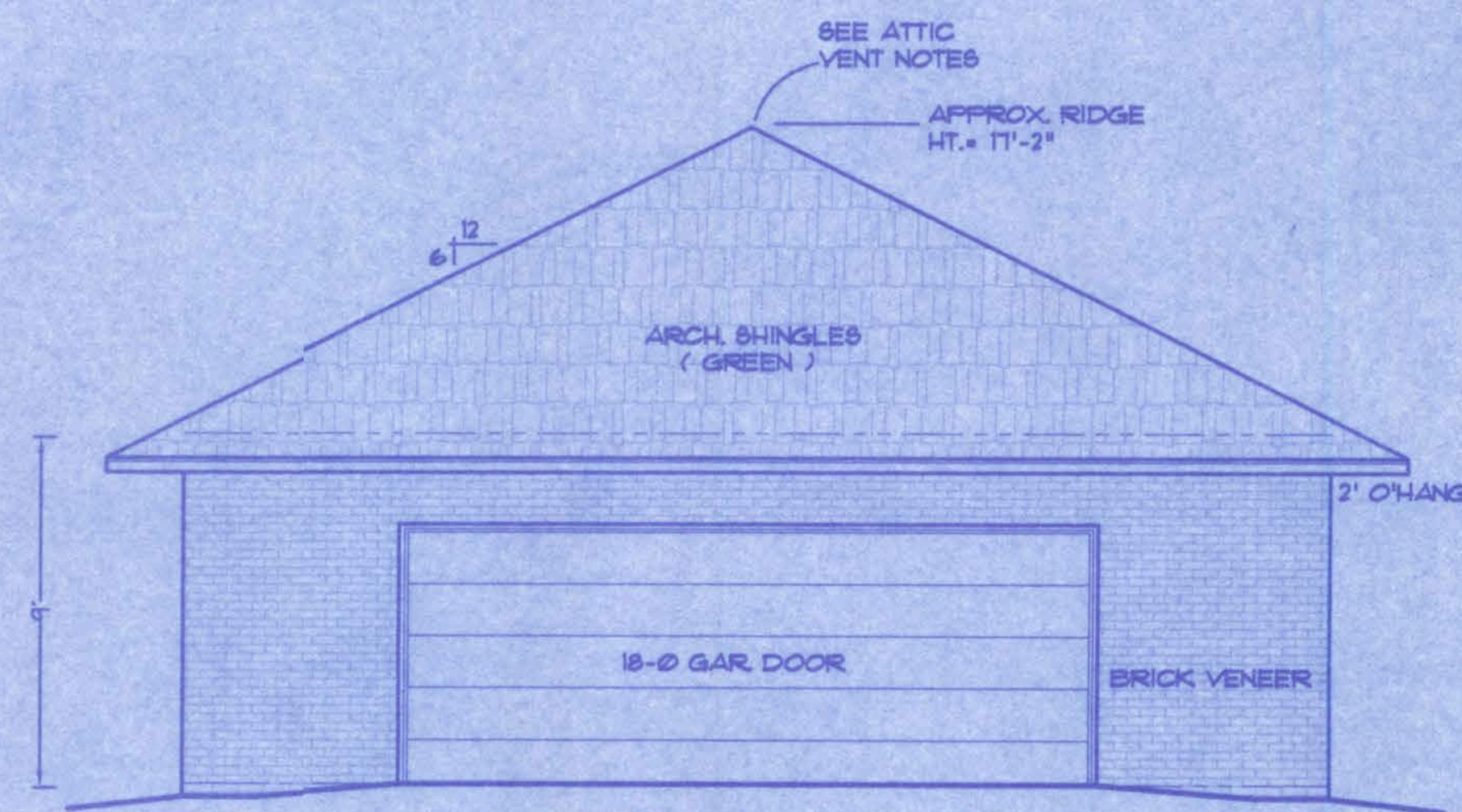
Job No. 701255

Location: SEC. 12, T-3-S, R-15-E

Mark Dismay  
01 FEB 07

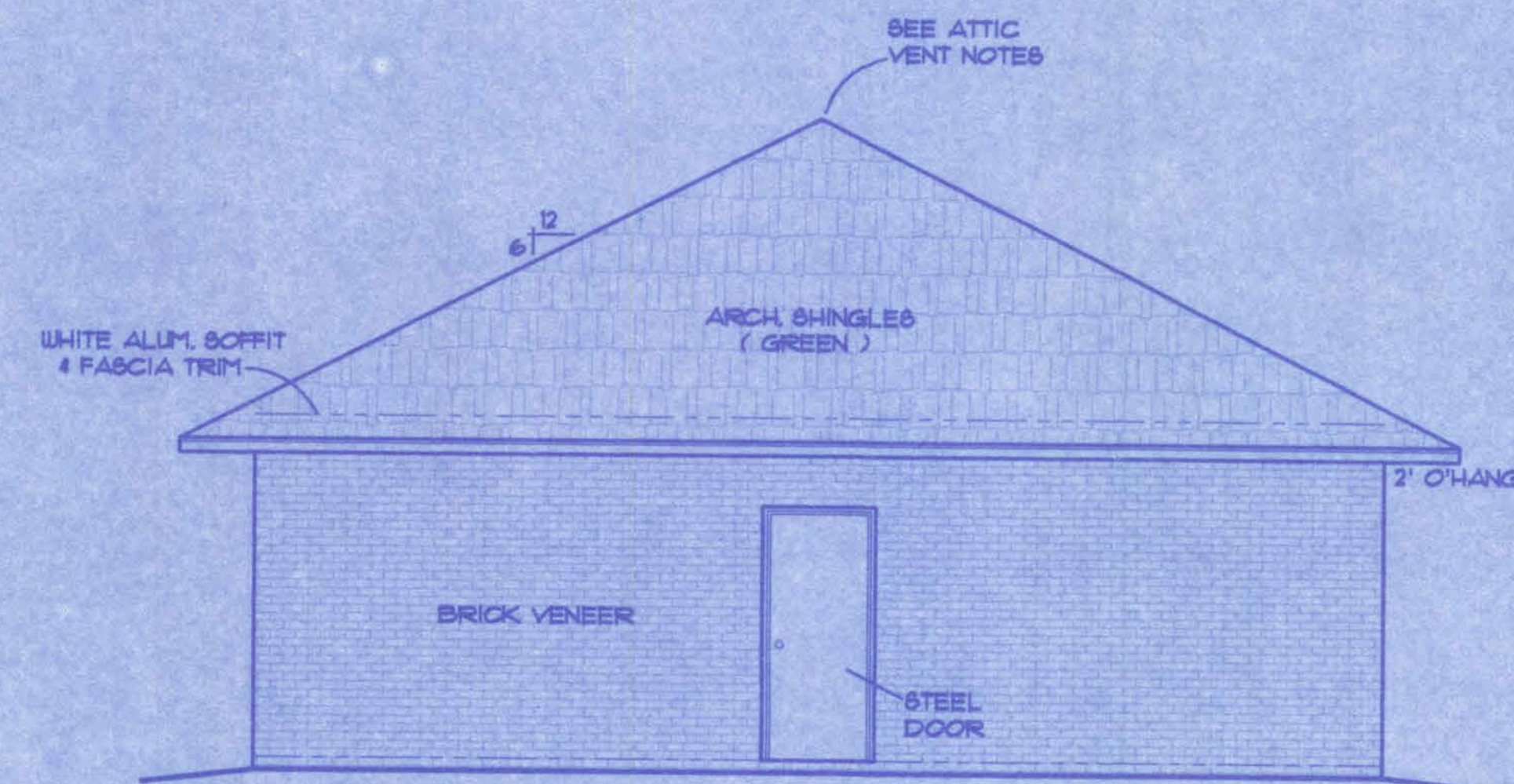
FILE: 07-001	<b>BOUTWELL GARAGE</b>	SHEET: 1 OF 4
DATE: 1-24-07		CAD. FILE: 07001
DRAWN: T A D	PREPARED BY: <b>TIM DELBENE</b> Drafting & Technical Services	REV:
CHECK: T A D	193 SW Bagwood Cir., Lake City, FL 32024 Phone: 386-754-5841	REV:





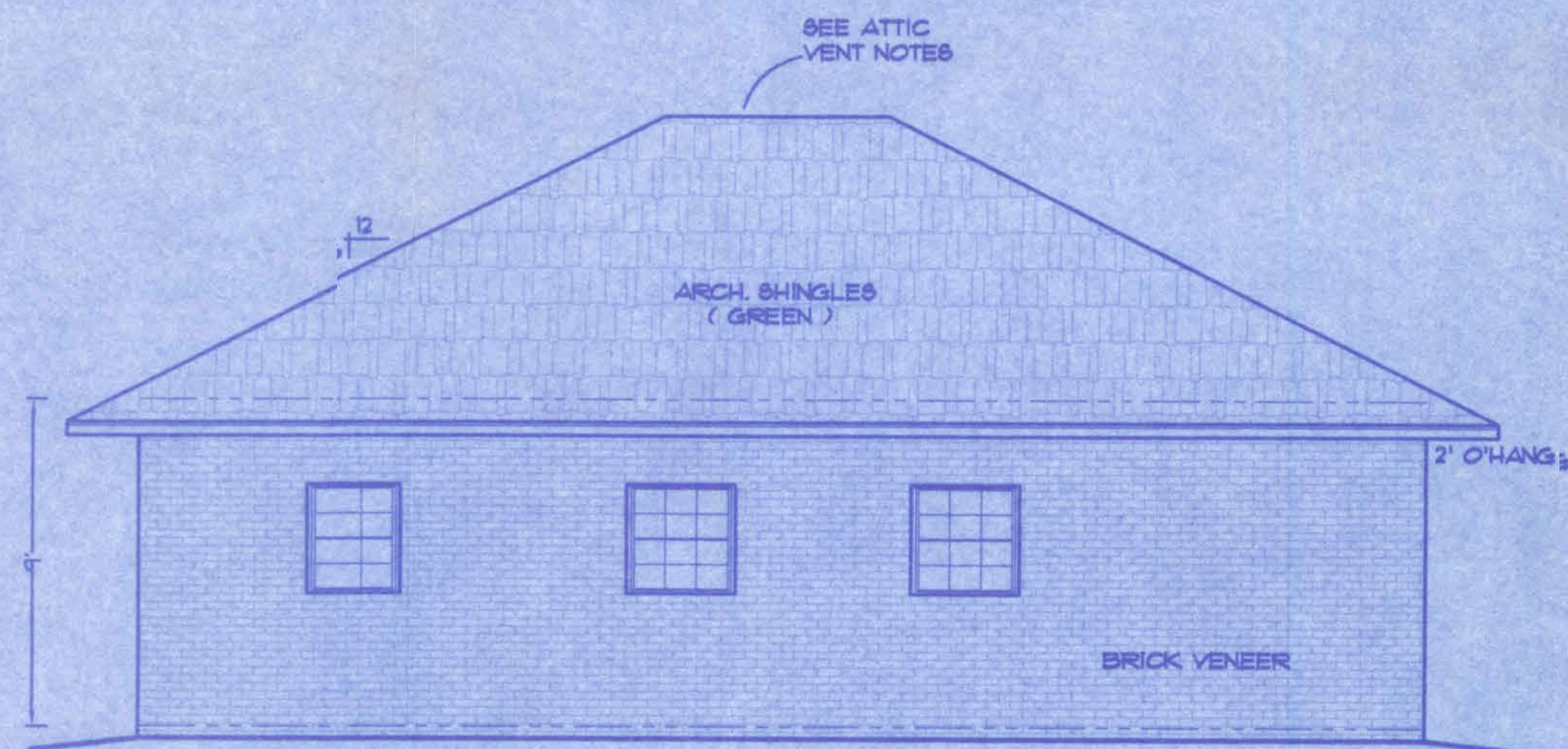
**LEFT ELEVATION**

SCALE: 1/4 IN. = 1 FT.



**RIGHT ELEVATION**

SCALE: 1/4 IN. = 1 FT.



**REAR ELEVATION**

SCALE: 1/4 IN. = 1 FT.

#### ATTIC VENTILATION

Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain. Ventilating openings shall be provided with erosion-resistant wire mesh, with a 1/8 inch (3.2 mm) minimum to 1/4 inch (6.4 mm) maximum openings.

The total net free ventilating area shall not be less than 1 to 150 of the area of the space ventilated except that the total area is permitted to be reduced to 1 to 300, provided at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents.

#### GENERAL NOTES

- 1.) See Wind Load Detail Sheet S-1 and Wind Engineer's Notes for data pertaining to Wind Design and compliance w/ Florida Building Code.
- 2.) All concrete used to be 2500 PSI strength or greater.
- 3.) HVAC duct and unit size/design is by engineered shop drawings from the AC contractor.
- 4.) Windows to be alum. framed and double glazed. Sizes shown are nominal and may vary with manufacturer.
- 5.) Roof Truss design is the responsibility of the supplier.
- 6.) The Truss Manufacturer shall prepare Shop Drawings indicating Truss placement, Girder locations, Truss-to-Truss Connections and any point loads. The Contractor shall notify the Designer of any point loads in excess of 2.0k for End Modification.
- 7.) Site analysis or preparation information is not a part of this plan and is the responsibility of the owner.
- 8.) Cabinet and millwork detail is not a part of this plan. The plan is a general design and details shall be the responsibility of the owner and/or contractor.

**A-2**

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

CERTIFICATION: These plans and "Windload Engineering", Sheet S-1, attached, comply with Florida Building Code Residential 2004, Section R301.2.1 to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location, permitted within 90 days of signature date. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

SPRING DRIVE, LAKE CITY, FL

SEC. 12, T-3-S, R-1B-E

Job No.:

701255

FILE: 07-001	<b>BOUTWELL GARAGE</b>	SHEET: 1 OF 4
DATE: 1-24-07		CAD FILE: 07001
DRAWN: T A D		REV:
CHECK: T A D		REV:

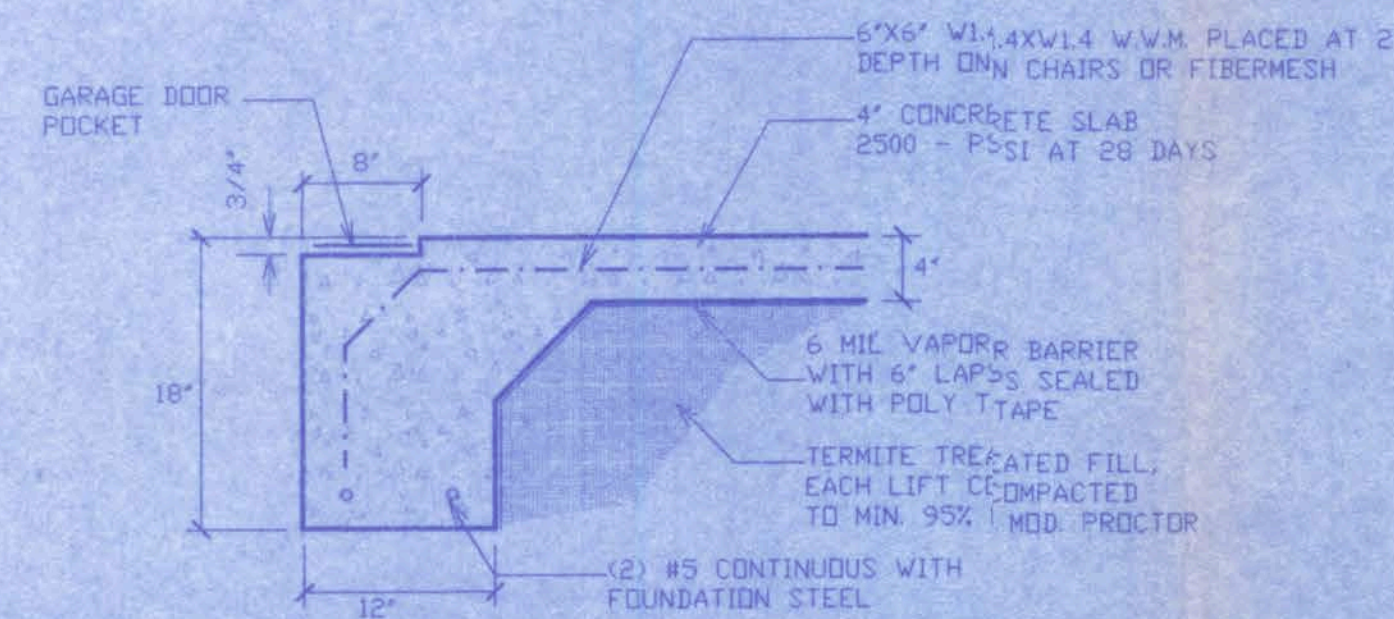
PREPARED BY:  
**TIM DELBENE**  
Drafting + Technical Services  
142 SW Oakwood Cir. Lake City, FL 32024  
Phone: (386) 755-9591

*Mark Disoway*  
01 FEB 07

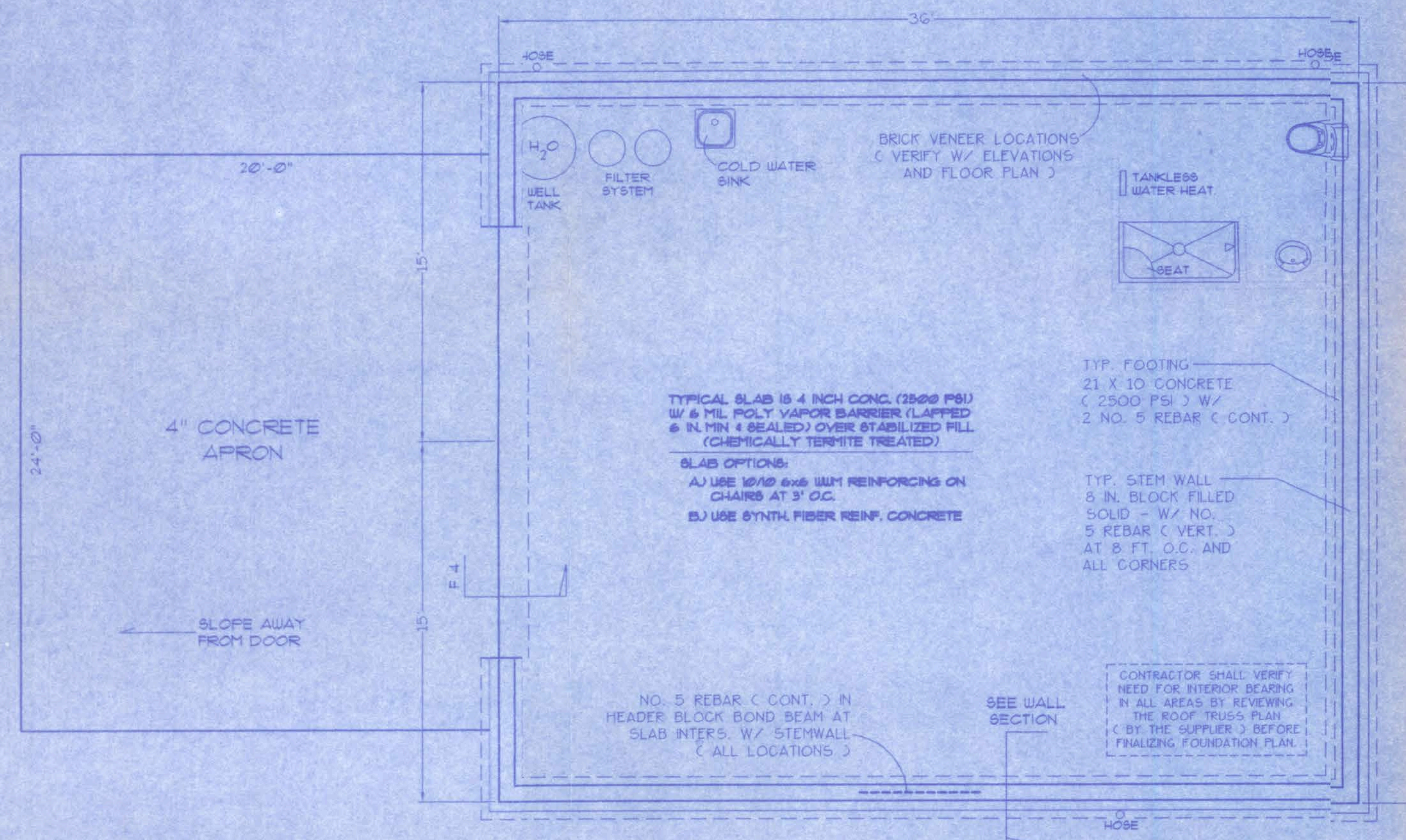


# **FOUNDATION NOTES:**

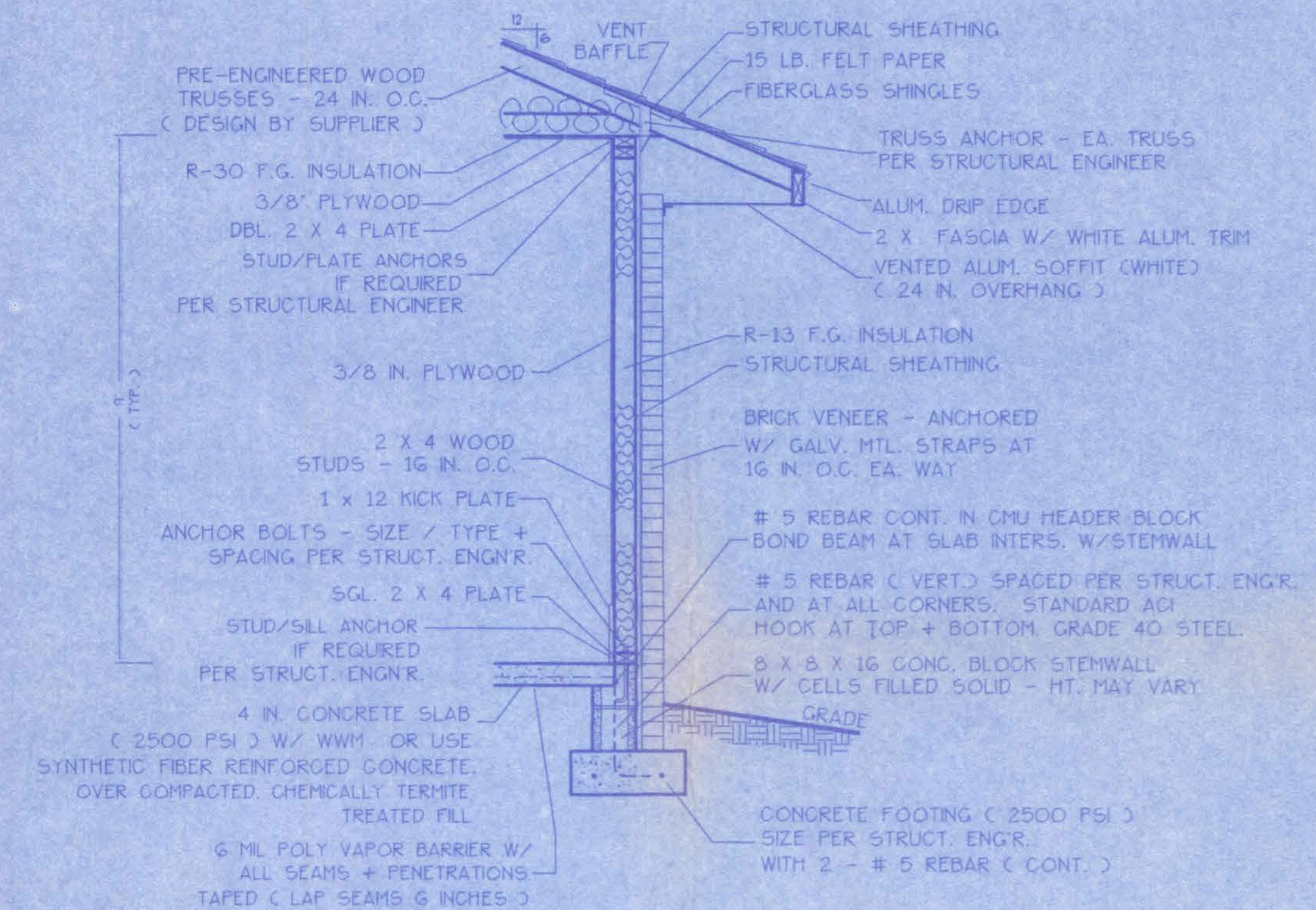
- CONTRACTOR SHALL EXAMINE ROOF TRUSS PLAN (BY SUPPLIER) TO DETERMINE ANY ADDITIONAL BEARING REQUIREMENTS BEFORE FINALIZING THE FOUNDATION PLAN.
- ALL CONCRETE IS 2500 PSI STRENGTH (MIN)
- VERIFY DIMENSIONS WITH FLOOR PLAN
- SITE ANALYSIS AND PREPARATION DATA IS NO A PART OF THIS PLAN AND IS THE RESPONSIBILITY OF THE CONTRACTOR / OWNER.



**F4 - GARAGE DOOR POCKET**  
SCALE: 1" = 1'-0"



**FOUNDATION PLAN**  
SCALE: 1/4 IN. = 1 FT.



## **WALL SECTION NOTES:**

- This Typical Wall Section is for Estimating purposes only.
- All data shown in this Wall Section shall be subject to review and final input by the Structural Engineer.

## **DESIGN WALL SECTION** NON-STRUCTURAL DATA

SCALE: 3/4 IN. = 1 FT.

**A-3**

WINDLOAD ENGINEER: Mark Dissaway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

CERTIFICATION: These plans and "Windload Engineering", Sheet S-1, attached, comply with Florida Building Code Residential 2004, Section R301.2.1 to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location, permitted within 90 days of signature date. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

SPRING DRIVE, LAKE CITY, FL  
SEC. 12.1-3-B, R-15-E

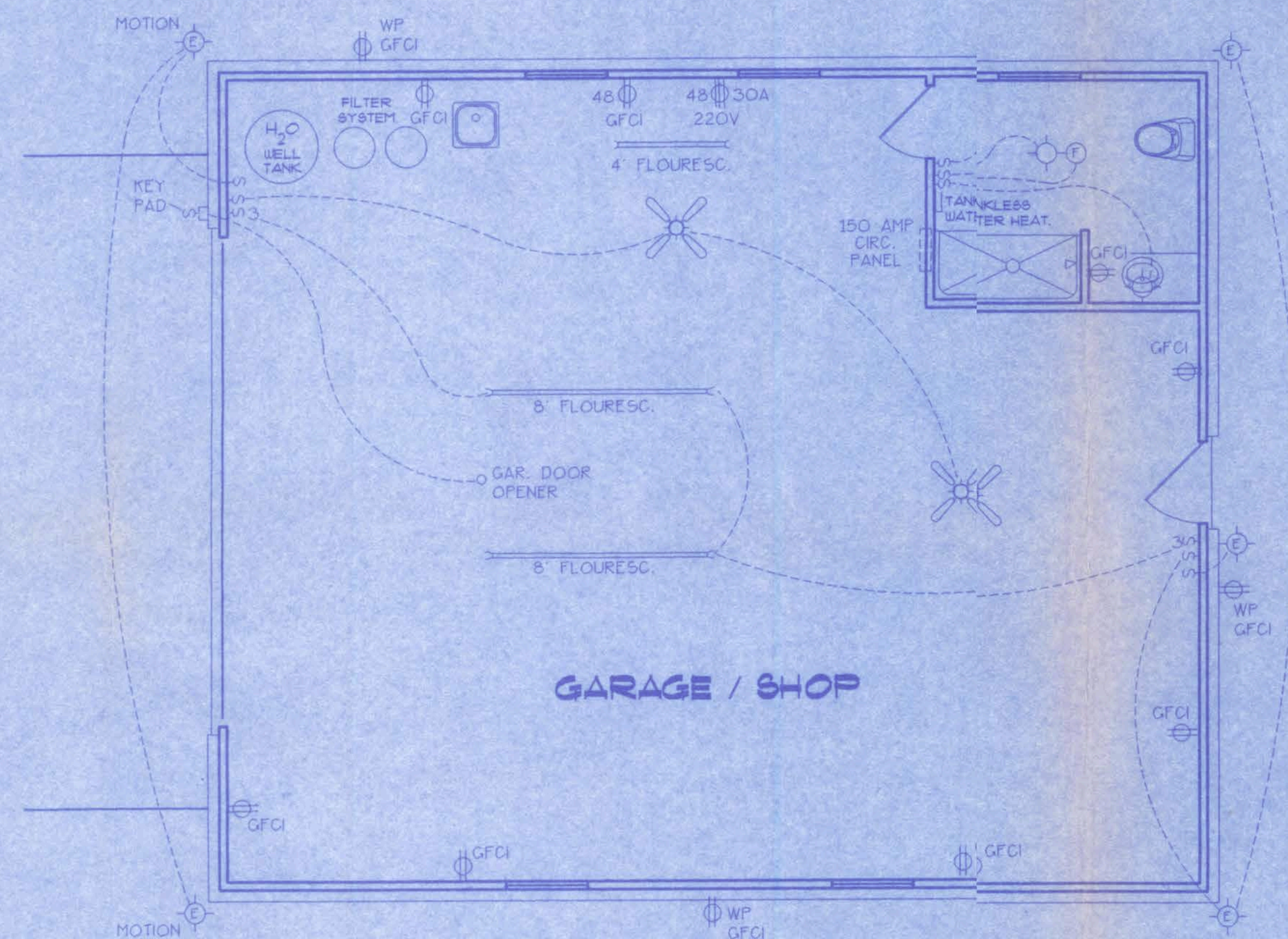
Job No.:

701255

FILE: 07-001	<b>BOUTWELL GARAGE</b>	SHEET: 1 OF 4
DATE: 1-24-07		CAD FILE: 07001
DRAWN: TAD	PREPARED BY: <b>TIM DELBENE</b> Drafting + Technical Services	REV:
CHECKS: TAD	192 SW Sagewood Dr. Lake City, FL 32024 Phone: (386) 755-5891	REV:

*Mark Dissaway*  
01 FEB 07





**ELECTRICAL PLAN**  
NOT TO SCALE

**ELECTRICAL SYMBOL LEGEND**

	= FLOURESCENT LIGHTING FIXTURE
	= CEILING LIGHT FIXTURE
	= EXTERIOR LIGHTING FIXTURE
	= LIGHT SWITCH
	= THREE-WAY SWITCH
	= 110 V. DUPLEX OUTLET
	= SPECIAL HEIGHT 110 V. DUPLEX OUTLET
	= GROUND FAULT CIRC. OUTLET
	= ARC FAULT CIRC. OUTLET
	= 110 V. SINGLE RECEPTACLE OUTLET
	= 220 VOLT OUTLET C. 4 WIRE
	= FAN LOCATION (CEILING)
	= FAN LOCATION (EXHAUST)
	= SMOKE DETECTOR

**ELECTRICAL PLAN NOTES**

- WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
- CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.
- ALL INSTALLATIONS 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.
- 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 BE RESPONSIBLE FOR THE DESIGN + SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
- ENTRY OF SERVICE (UNDERGROUND OR OVERHEAD) TO BE DETERMINED BY POWER COMPANY.

**A-4**

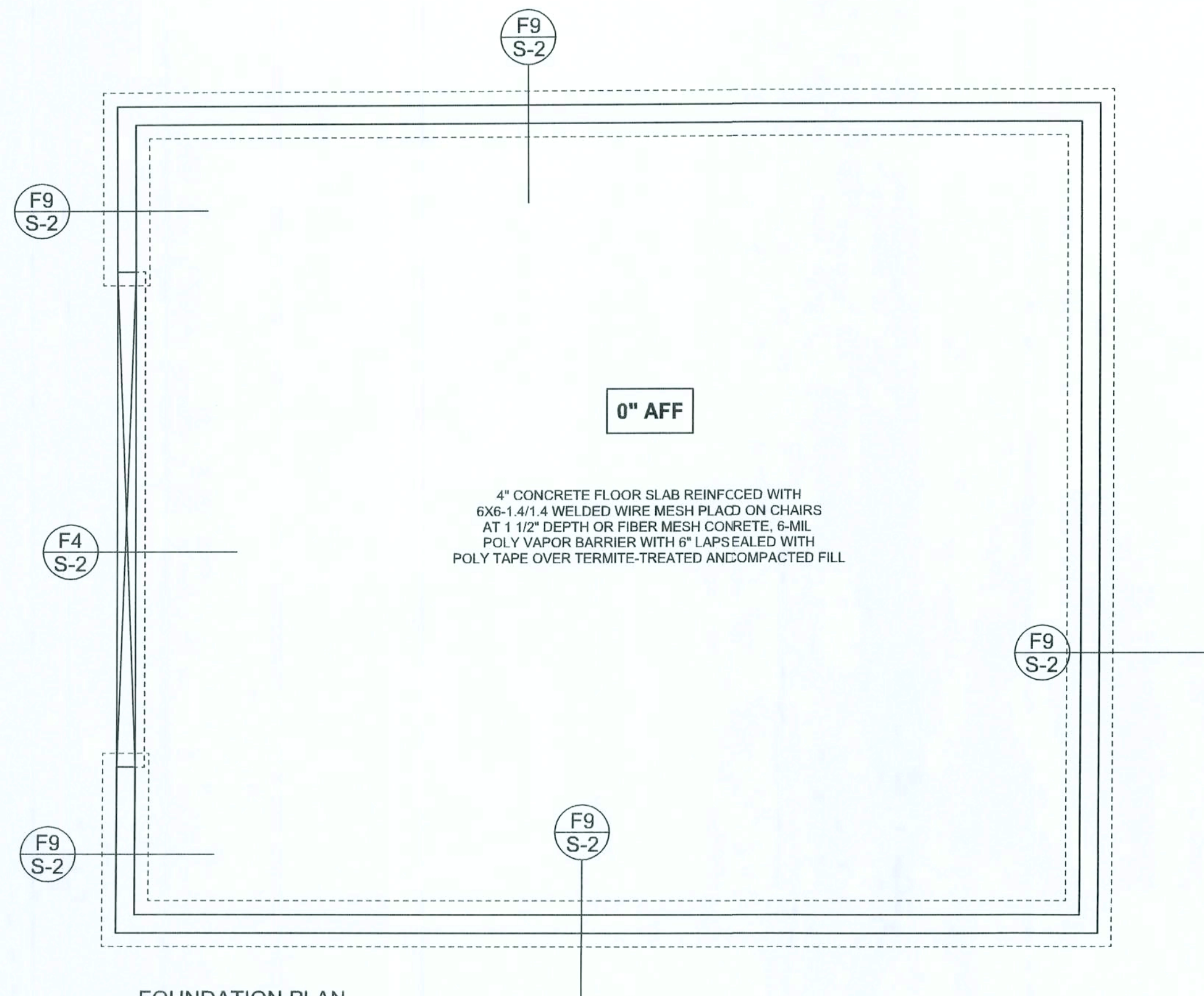
SPRING DRIVE, LAKE CITY, FL  
SEC. 12, T-3-S, R-15-E

FILE: 07-001	<b>BOUTWELL GARAGE</b>	SHEET: 1 OF 4
DATE: 1-24-07		CAD. FILE: 07C01
DRAWN: T A D	PREPARED BY: <b>TIM DELBENE</b> Drafting + Technical Services	REV:
CHECK: T A D	192 SW Segwood Gbl. Lake City, FL 32024 Phone: (386) 755-5841	REV:





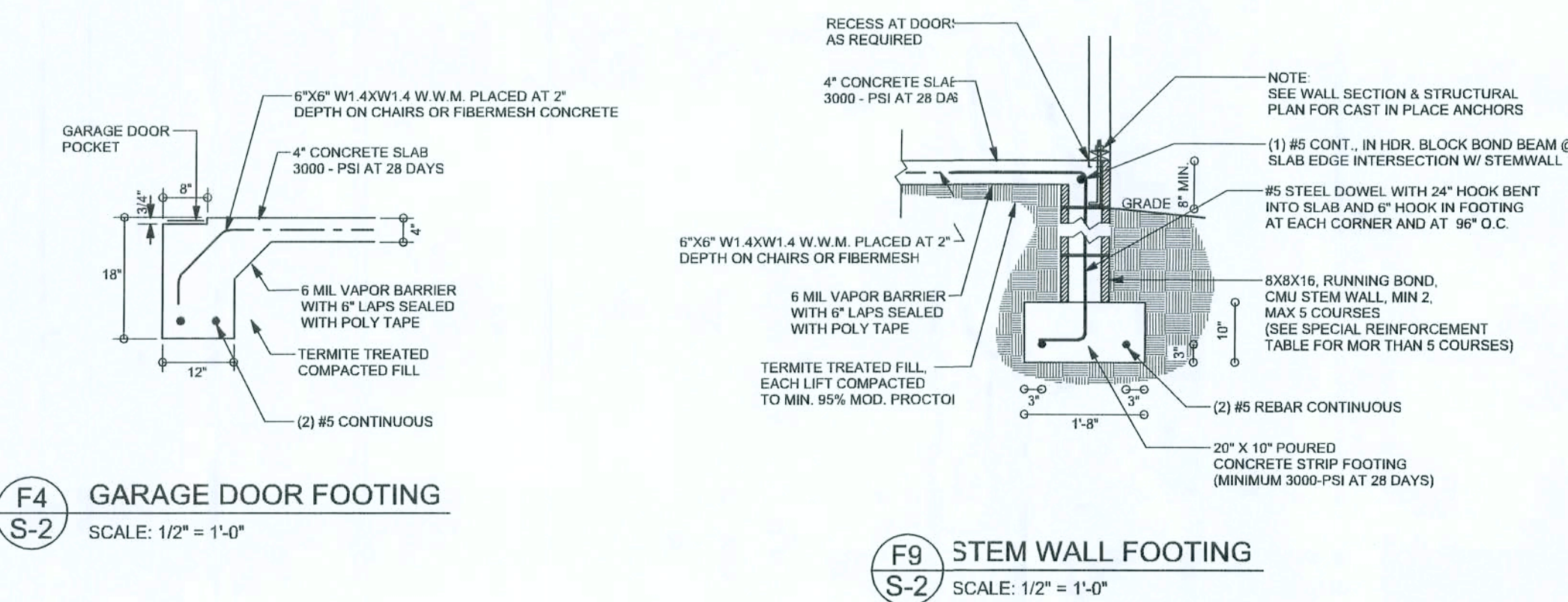




#### FOUNDATION PLAN

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

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



#### F4 S-2 GARAGE DOOR FOOTING

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

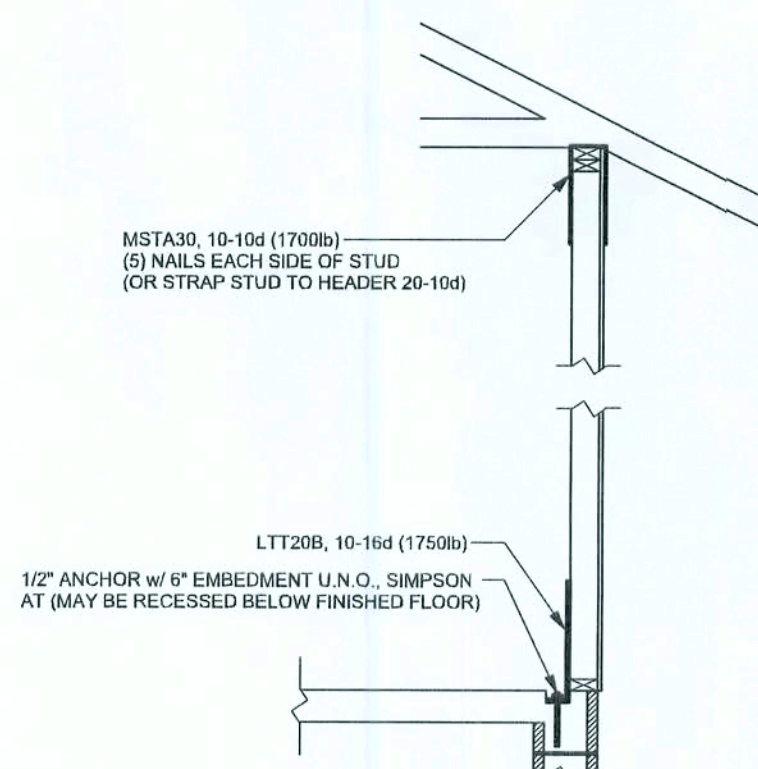
#### F9 S-2 STEM WALL FOOTING

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

#### TALL STEM WALL TABLE

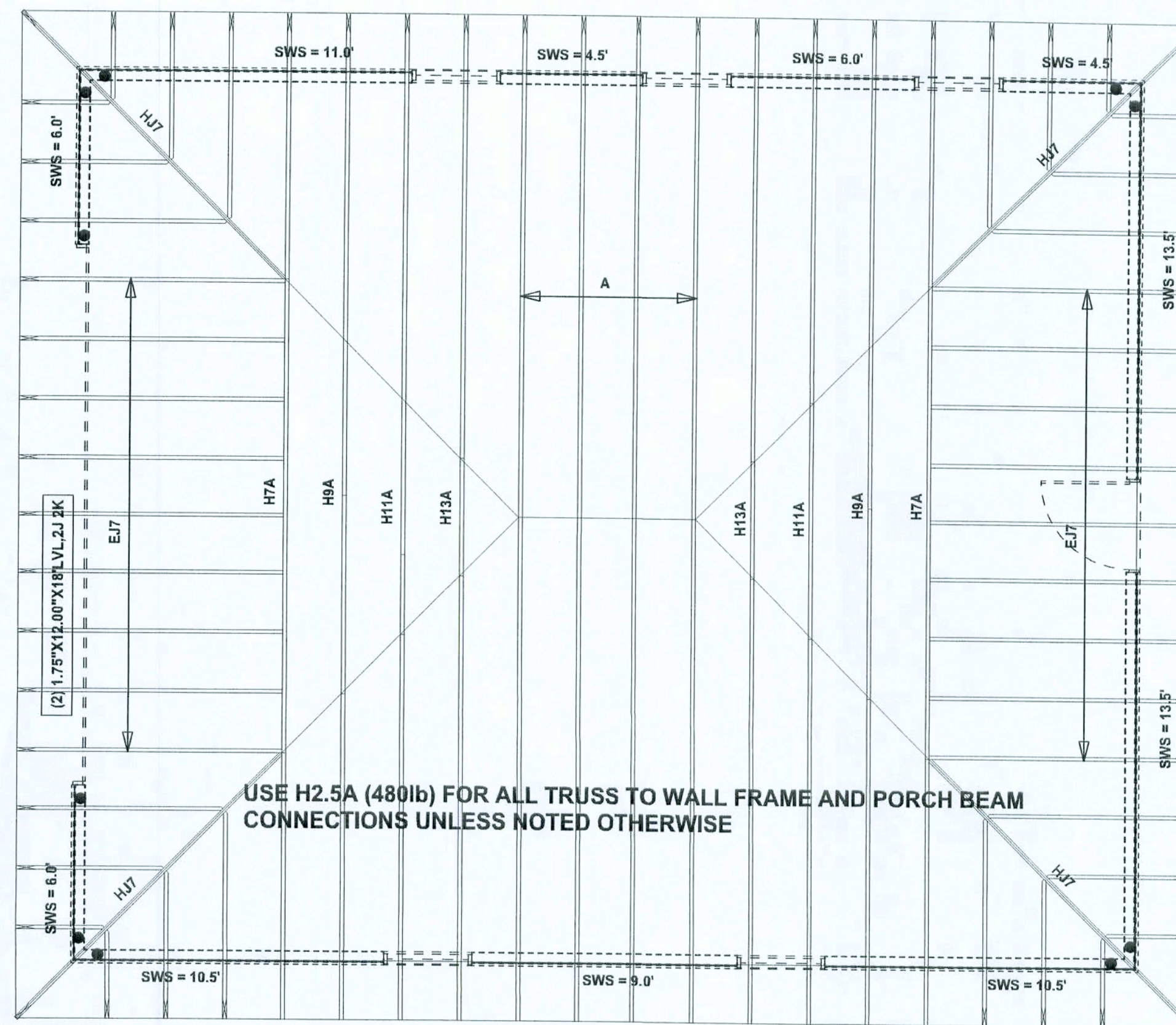
The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Diagonal ladder reinforcement at 16" O.C. vertically or a horizontal bond beam with 1/8" 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



#### ALTERNATE WALL TIE CONNECTION WHERE THREADED ROD CANNOT BE PLACED IN WALL

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



#### STRUCTURAL PLAN

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

#### TOTAL SHEAR WALL SEGMENTS

SWS = 0.0' INDICATES SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	11.7'	39.0'
LONGITUDINAL	10.2'	56.0'

#### 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 PLIES IN HEADER

#### 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 BCSI-03, BCSI-B1, BCSI-B2, & BCSI-B3, BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

#### WALL LEGEND

SWS = 0.0'	1ST FLOOR EXTERIOR WALL
SWS = 0.0'	2ND FLOOR EXTERIOR
IBW	1ST FLOOR INTERIOR BEARING WALLS SEE DETAILS ON SHEET S-1
IBW	2ND FLOOR INTERIOR BEARING WALLS SEE DETAILS ON SHEET S-1

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER, ANDERSON TRUSS CO. (JOB: FRED PERRY / BOUTWELL)

#### REVISIONS

SCOTPLAN  
ARCHITECTURAL DESIGN FOR HOME

WINDLOAD ENGINEER: Mark Discoway  
PE No. 53915, PGB 868, Lake City, FL  
32656, 386-754-8119

DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Discoway, I.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 R301.2.1, Florida building code residential 2004, to the best of my knowledge.

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

MARK DISCOWAY  
P.E. 53915

Frederick Perry

George Boutwell  
Garage

ADDRESS:  
Spring Drive  
Columbia County, Florida

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PRINTED DATE:  
February 02, 2007

DRAWN BY: STRUCTURAL BY:  
Evan Beamley

FINAL DATE  
2 / Feb / 07

JOB NUMBER:  
701255

DRAWING NUMBER

S-2

Of 2 SHEETS