



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



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

REQUIRED ROOF VENTILATION:
AS PER FLORIDA BUILDING CODE 2308.7

RIDGE VENT
MIN. 50% TOTAL VENT AREA
LOCATED IN THE UPPER PORTION OF ATTIC (MIN. 3" ABOVE EAVE)
3853 S.F. / 300 x 50% = 6.42 S.F. RIDGE VENT AREA REQUIRED
58.42 FEET OF RIDGE VENT REQUIRED

SOFFIT VENT
3853 S.F. / 300 x 50% = 6.42 S.F. SOFFIT VENT AREA REQUIRED
214 FEET OF SOFFIT VENT REQUIRED

BUILDER MUST VERIFY THE FOLLOWING MINIMUM NET FREE VENT AREAS:

1. RIDGE VENTS = 16 IN²/FT (1.1 FT²/FT)
2. OFF-RIDGE VENTS = 70 FT² PER 4' UNIT
3. SOFFIT VENTS = 4.3 IN²/FT (0.3 FT²/FT)

REVISIONS	



WHOLESALE ENGINEER, Mark Disoway,
P.E. No. 33475, 7026 NE Lane City, FL
32056, 386-754-5419

DIMENSIONS:
Shown dimensions supersede scaled
measurements. Refer all questions to
Mark Disoway, P.E. for clarification.
Do not proceed without consultation.

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permission and consent of Mark Disoway.

CERTIFICATION: I hereby certify that I have
examined this plan, and that the applicable
provisions of the plan, relating to need engineering
conform with sections 900.1, 1, 2, 3, 2010 Florida
Building Code (International
Building Code) to the best of my knowledge.

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

MARK DISOWAY
P.E. 33475
NOV 13 2012
STATE OF
FLORIDA
Professional Engineer

**Dowd - Kneel
Residence**

ADDRESS:
The Oaks S/D
Columbia County, FL

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PRINTED DATE:
November 13, 2012

DRAWN BY: STRUCTURAL BY:

13Nov12

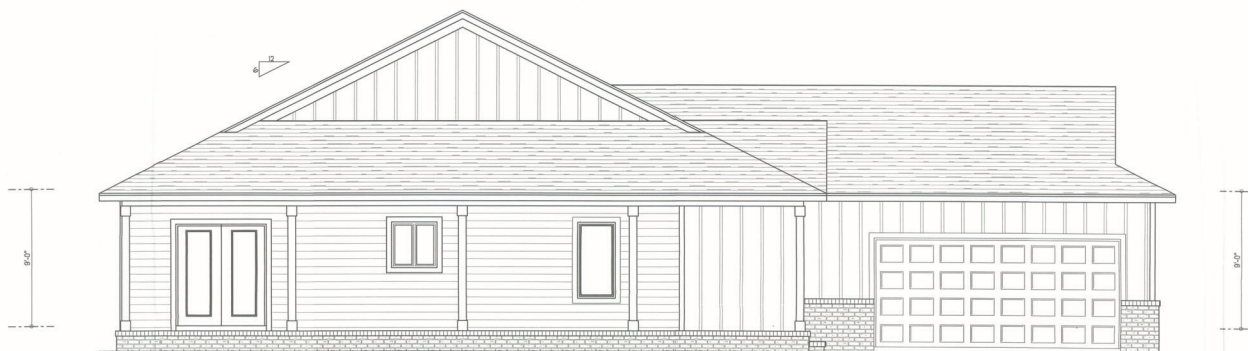
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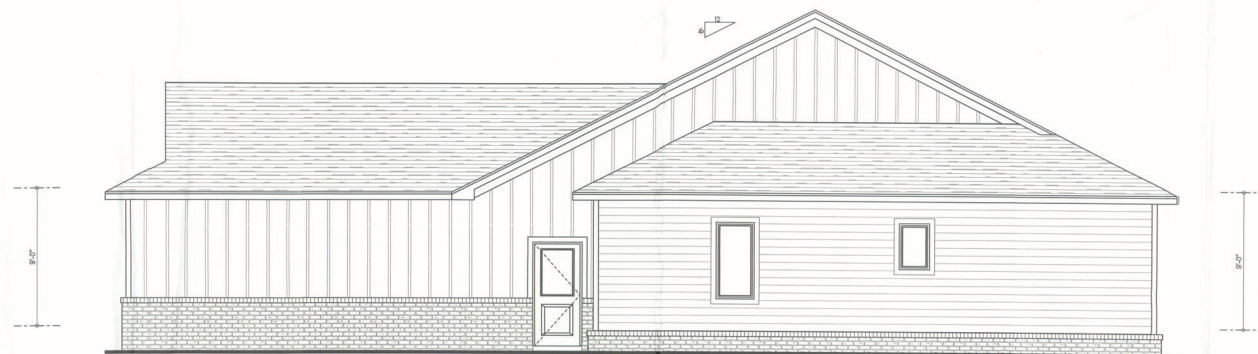
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1
OF 7 SHEETS

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. 53815, PCB No. 1, Lake City, FL
33606-3861-4871

DIMENSIONS:
Detailed 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 the plan, and that the signature appears on the plan, and that the signature complies with Section 1206.2, 2.1, 2010 Florida Building Code Residential to the best of my knowledge.

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



Dowd - Knee Residence

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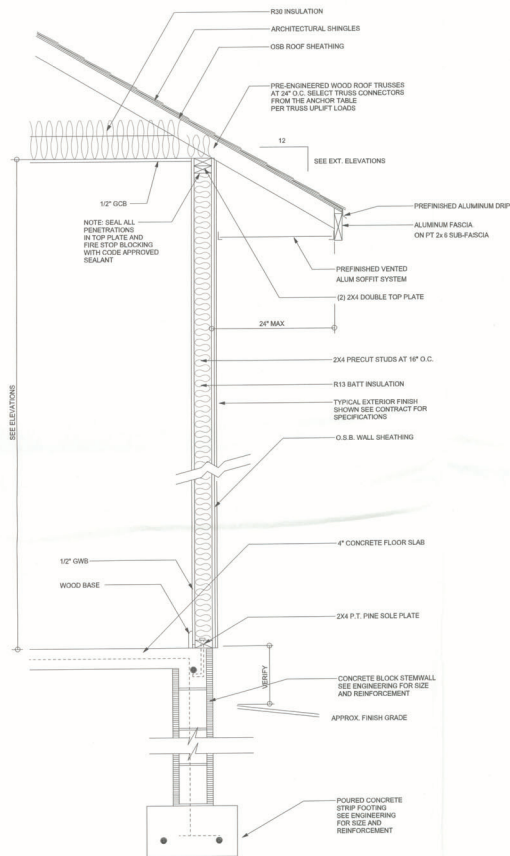
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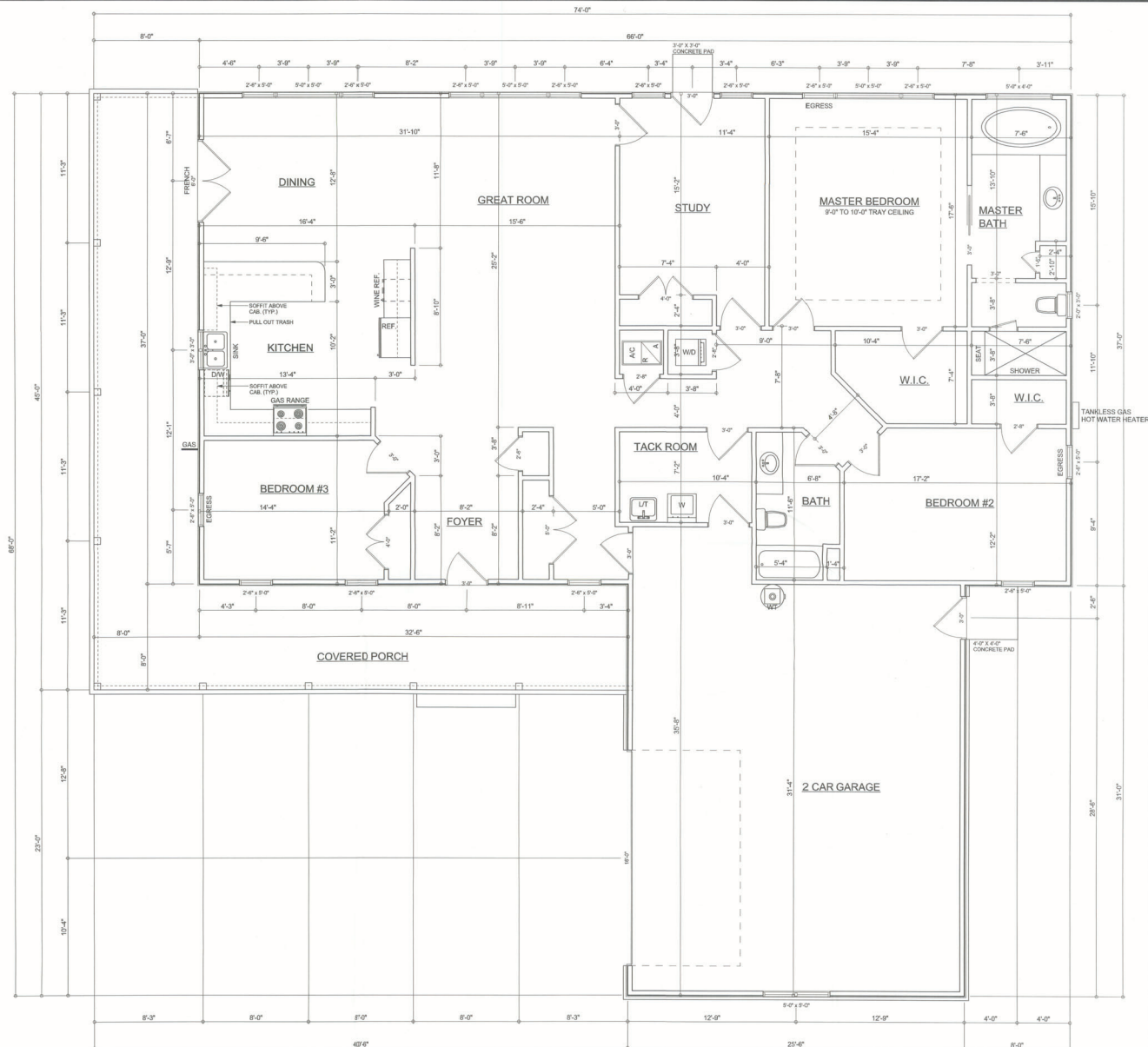
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TYPICAL DESIGN WALL SECTION
NON - STRUCTURAL DATA

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



FLOOR PLAN

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

ALL CEILING HEIGHTS TO BE 9'-0" UNLESS NOTED OTHERWISE

Garage fire separations shall comply with the following:
1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 1/2-inch (12.7 mm) gypsum board applied to the garage side. Gaps between individual rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) gypsum board that is applied to the habitable rooms side. The ceiling and walls shall be equipped with self-closing fire-rated doors, or solid or honeycomb core steel doors not less than 1 3/8 inches (34.9 mm) thick, or doors in compliance with Section 712.2.3. Coverings from a private garage directly into a room used for sleeping purposes shall not be permitted.
2. Doors in a private garage and doors separating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a minimum 0.019 inch (0.48 mm) steel and shall have no openings into the garage.
A separation is not required between a Group R-2 and U support provided the support is entirely open on two or more sides and there are not enclosed areas above.

AREA SUMMARY

LIVING AREA	2406	S. F.
GARAGE AREA	827	S. F.
POUCH AREA	620	S. F.
TOTAL AREA	3853	S. F.

REVISIONS

SOFTPLAN

WINDLOAD ENGINEER: Mark Dossow, P.E. No. 33815, P.O. Box 868, Lake City, FL 33506, (386) 754-5419
DIMENSIONS: All dimensions are approximate unless otherwise noted. Refer all questions to Mark Dossow, P.E. for resolution. Do not proceed without clarification.
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CERTIFICATION: I hereby certify that I have examined the plan, and that the applicable portions of the plan, relating to wind engineering comply with section F501.2.1, 2010 Florida Building Code Residential.
LIMITATION: This design is valid for one building, at specified location.



Dowd - Knee Residence

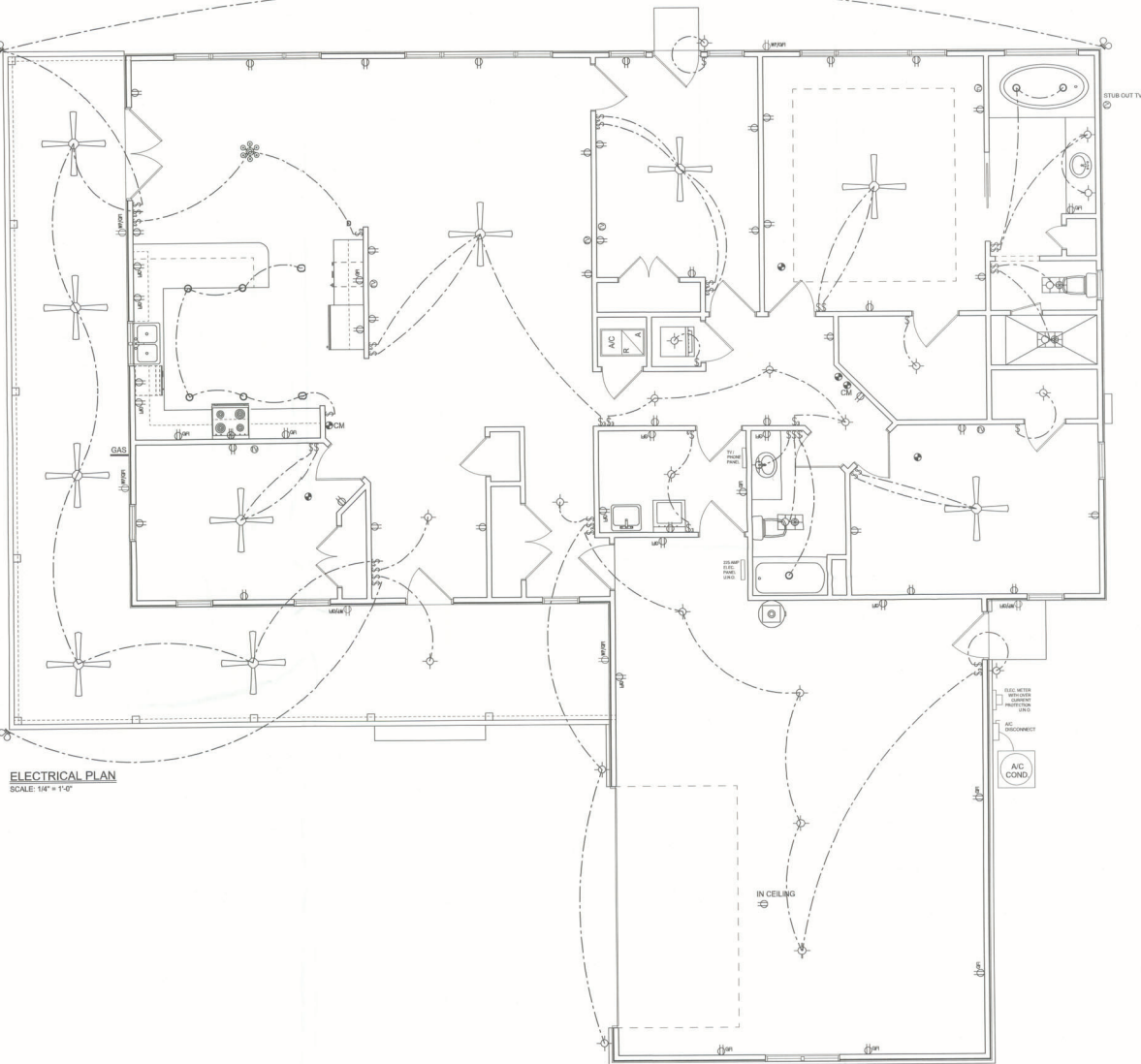
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ELECTRICAL PLAN NOTES

- 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 NATL. 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 120VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DINING BEDROOMS, SUN ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
- 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.
- E-12 ALL OUTLETS LOCATED IN RESIDENTIAL TO BE TAMPER-RESISTANT PER NEC.

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: 1/4" = 1'-0"

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

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

DIMENSIONS:
Standard 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 that the applicable portions of the plan, relating to wind engineering comply with section R-1, 2010 Florida Building Code Residential.

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



Dowd - Knee
Residence

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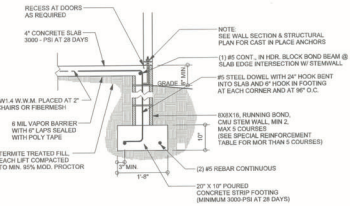
REVISIONS

SOFTPLAN
ARCHITECTURAL SOFTWARE

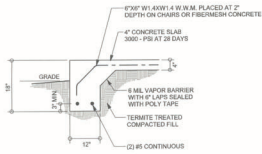
TALL STEM WALL TABLE

This table assumes 60 bar reinforcing bars with #7 bars in the footing and bent 24" into the mainstem wall at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure), unless 2" of the exterior side of the wall. If the wall is over 7' high, add 2" diameter bar reinforcement at 18" O.C. vertically or a horizontal band beam with 60 continuous steel length. For higher parts of the wall, 12" CMU may be used with reinforcement as shown in this table below.

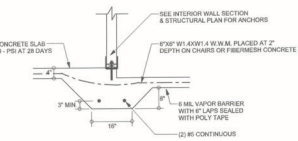
STEM WALL HEIGHT (FEET)	FINISHANCE BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	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



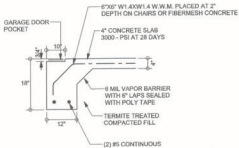
F1 S-2
STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



F2 S-2
MONOLITHIC FOOTING
SCALE: 1/2" = 1'-0"



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

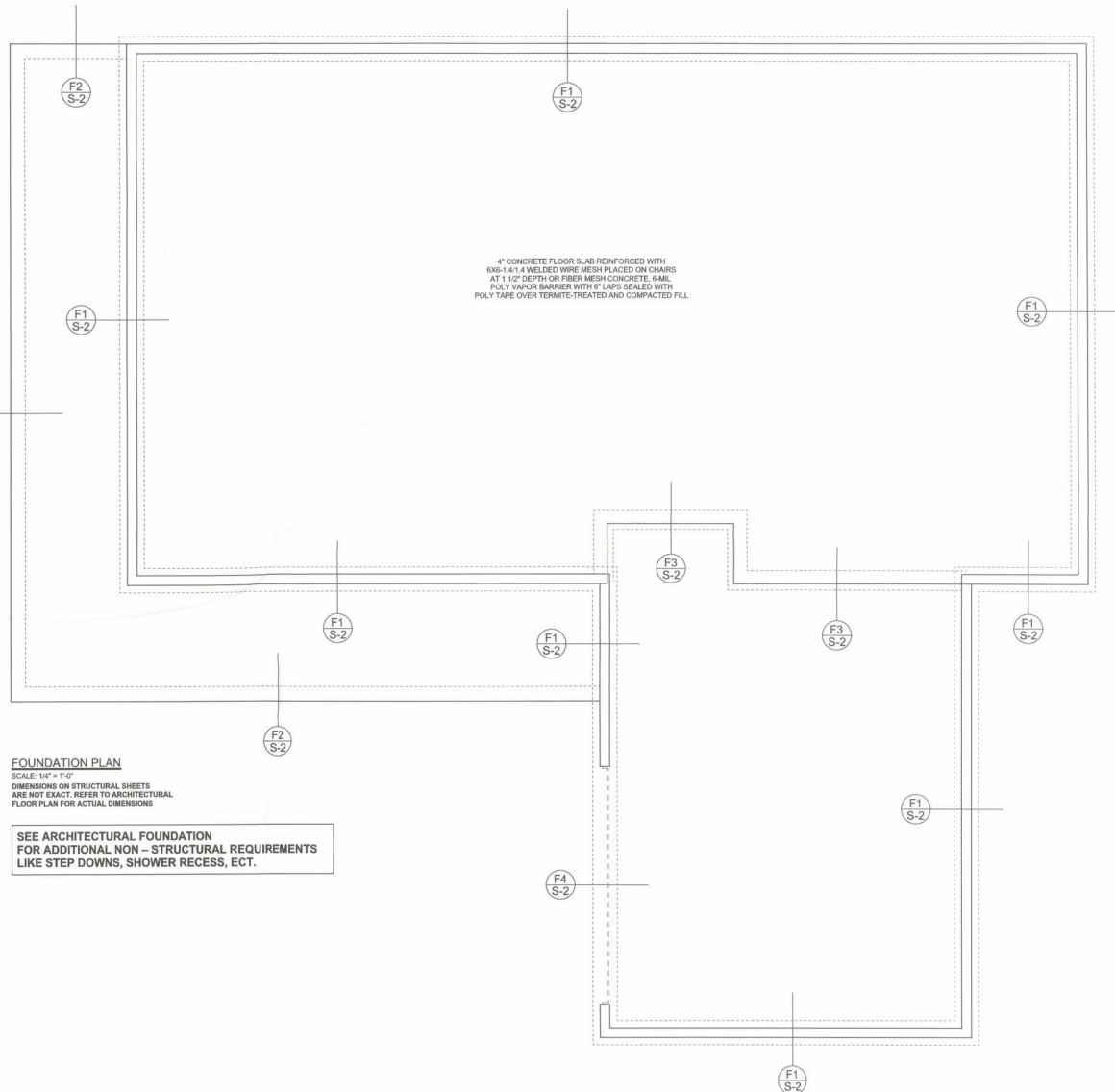


F4 S-2
GARAGE DOOR FOOTING
SCALE: 1/2" = 1'-0"

FOUNDATION PLAN

SCALE: 1/4" = 1'-0"
DIMENSIONS ON STRUCTURAL SHEETS
ARE NOT EXACT. REFER TO ARCHITECTURAL
FLOOR PLAN FOR ACTUAL DIMENSIONS.

SEE ARCHITECTURAL FOUNDATION
FOR ADDITIONAL NON-STRUCTURAL REQUIREMENTS
LIKE STEP DOWNS, SHOWER RECESS, ETC.



WINDLOAD ENGINEER: Mark Dismore,
FL No. 23815, FOR H&B, Lake City, FL
33506, 386-754-5619

DIMENSIONS:
Standard dimensions approximate scaled
dimensions. Refer all questions to
Mark Dismore, 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 said engineering
comply with section 6201.21, 2019 Florida
Building Code Requirements.

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



Dowd - Knee
Residence

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Fax: (386) 269 - 4871

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12/06/12

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1206113

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S-2

OF 7 SHEETS

REVISIONS

SOFTPLAN
ARCHITECTURAL SOFTWARE

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 BC31-03, BC31-01, BC31-02 & BC31-03, BC31-01, BC31-02 & BC31-03 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE.

WALL LEGEND

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

HEADER LEGEND

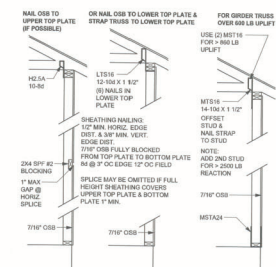
- (2) 2X10X7' 1/2" 1K" - HEADER/BEAM CALL-OUT (U.N.O.)
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

THREADED ROD LEGEND

- INDICATES LOCATION OF:
1ST FLOOR 3/8" A307 ALL THREADED ROD
- INDICATES LOCATION OF:
2ND FLOOR 3/8" A307 ALL THREADED ROD

TOTAL SHEAR WALL SEGMENTS

INDICATES SHEAR WALL SEGMENTS	REQUIRED	ACTUAL
TRANSVERSE	39.0'	85.5'
LONGITUDINAL	35.0'	64.0'



SHEATHING NAILING FOR UPLIFT ONE STORY WOOD FRAME

CONNECTIONS, WALL & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER, ANDERSON TRUSS JOB # 15-198



Dowd - Kneel
Residence

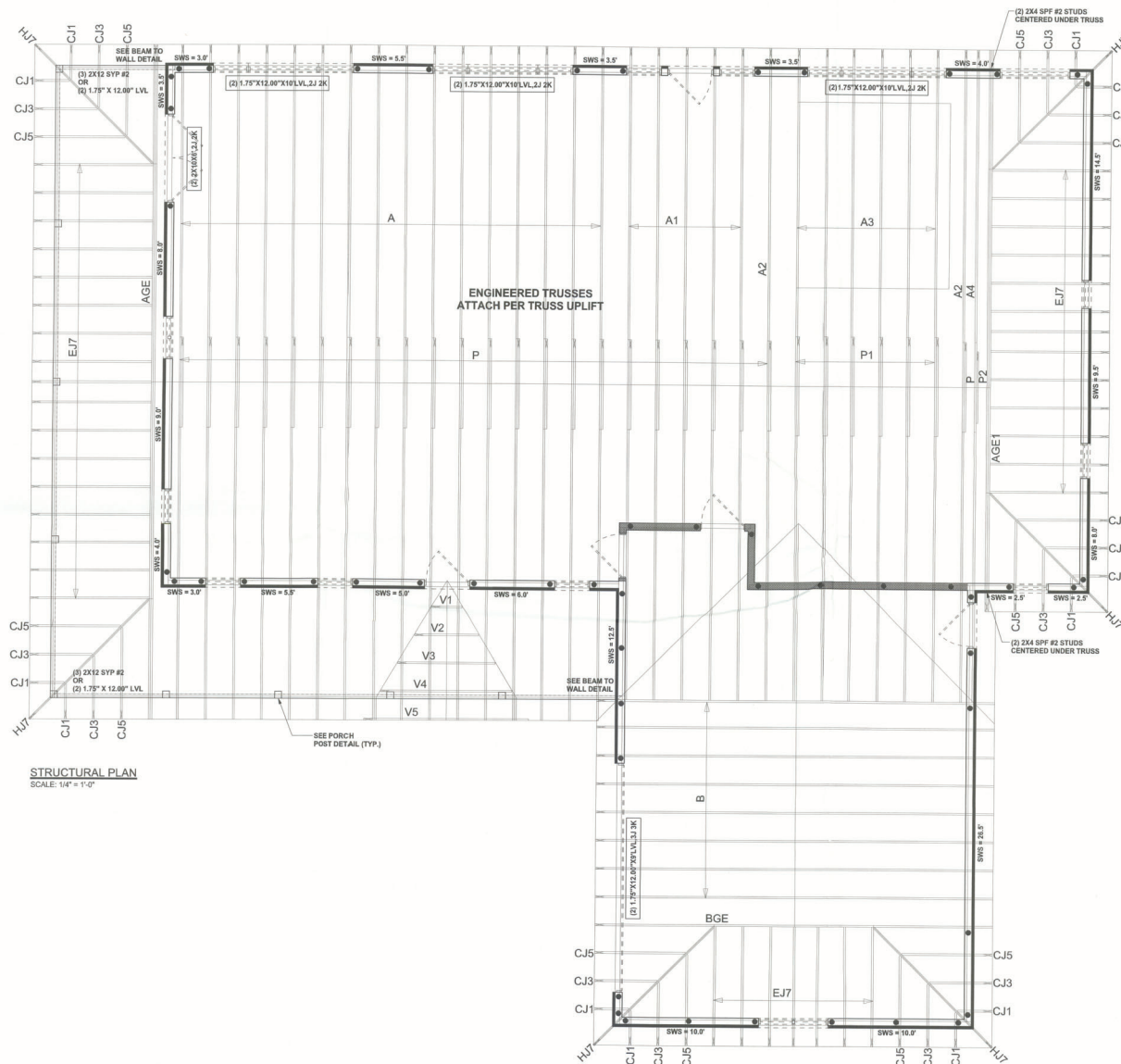
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STRUCTURAL PLAN
SCALE: 1/4" = 1'-0"