

HIGGS

BARN BUILDING PLANS

COLUMBIA COUNTY, FLORIDA

APPLICABLE CODES
2007 FLORIDA RESIDENTIAL BUILDING CODE WITH 2009 REVISIONS
2007 NATIONAL ELECTRIC CODE (NFPA 70) WITH 2009 REVISIONS
2007 FLORIDA PLUMBING CODE WITH 2009 REVISIONS
2007 FLORIDA MECHANICAL CODE WITH 2009 REVISIONS
2007 FLORIDA FIRE PROTECTION CODE WITH 2009 REVISIONS
(INCLUDES 2007 LIFE SAFETY CODE)

OCCUPANCY CLASS
RESIDENTIAL (R)

CONSTRUCTION DOCUMENTS
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SET OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS
AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

WIND DESIGN INFORMATION
WIND SPEED:110 MPH
CATEGORY:
EXPOSURE:
INTERNAL PRESSURE:0.18+
CLADDING COMPONENTS
ZONE 1: 10 S.F.12.54/-19.92 F
ZONE 2: 10 S.F.12.54/-34.68 F
ZONE 3: 10 S.F.12.54/-51.28 F
ZONE 4: 10 S.F.21.77/-23.61 F
ZONE 5: 10 S.F.21.77/-29.15 F

LEGEND	
SYMBOL	DESCRIPTION
	ELEVATION MARK
	SECTION MARK
	DETAIL CALLOUT
	ELEVATION INDICATOR
	DOOR TAG
	WINDOW TAG
	ROOM TAG
	REVISION CLOUD W/ TAG

DRAWING INDEX - BUILDING PACKAGE			
SHEET #	SHEET TITLE	REV. #	REV. DATE
T-1.0	TITLE SHEET	0	06-07-2011
S-1.0	FOUNDATION PLAN	0	06-07-2011
S-2.0	ROOF FRAMING PLAN	0	06-07-2011
S-3.0	SECTIONS	0	06-07-2011
A-1.0	FLOOR PLAN	0	06-07-2011

PRODUCT APPROVAL SPECIFICATION TABLE				
USED THIS PROJECT	CATEGORY / SUBCATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	FLORIDA APPROVAL NUMBERS
DOORS				
X		MASONITE INTERNATIONAL	METAL EDGE STEEL DOOR UNITS	19.1
WINDOWS				
X	VINYL SINGLE HUNG	SCHWINCO INDUSTRIES INC.	DOUBLE PANE	132.1
ROOFING				
	ASPHALT SHINGLES	TAMKO BUILDING PRODUCTS	HERITAGE 30 AR	1956.3
X	ASPHALT UNDERLAYMENT	TAMKO BUILDING PRODUCTS	MASTER SMOOTH	1481.1
X	METAL ROOFING	ASI BUILDING PRODUCTS	CMF EZLOCK 1.5	8695.1
STRUCTURAL COMPONENTS				
X	HOLD DOWN	SIMPSON STRONG-TIE	HD2A	12708.1
X	COILED STRAP	SIMPSON STRONG-TIE	CS16	13872.1 / 10852.1
	STRAP TIE	SIMPSON STRONG-TIE	LSTA36	13872.4 / 10852.5
	STRAP TIE	SIMPSON STRONG-TIE	MSTC40	33872.8 / 10852.11
	STRAP TIE	SIMPSON STRONG-TIE	MSTCM40 / MSTCM60	11473.19
	STRAP TIE	SIMPSON STRONG-TIE	MTS12	13872.1 / 10456.33
X	SLOPEABLE JOIST HANGER	SIMPSON STRONG-TIE	LSSU28	10447.10
	FACE MOUNT HANGER	SIMPSON STRONG-TIE	LUS28	10655.113
X	STUD PLATE TIES	SIMPSON STRONG-TIE	SP2	10456.42
X	STUD PLATE TIES	SIMPSON STRONG-TIE	SP4	13872.18 / 10456.43
X	STUD PLATE TIES	SIMPSON STRONG-TIE	SP6	13872.18 / 10456.44
X	STUD PLATE TIES	SIMPSON STRONG-TIE	SPH4	10456.46
X	STUD PLATE TIES	SIMPSON STRONG-TIE	SPH6	10456.47
X	HURRICANE TIES	SIMPSON STRONG-TIE	H2	10456.10
X	HURRICANE TIES	SIMPSON STRONG-TIE	H2.5	10456.11
X	HURRICANE TIES	SIMPSON STRONG-TIE	H2.5A	10456.12
X	HURRICANE TIES	SIMPSON STRONG-TIE	H10	10456.6
X	HURRICANE TIES	SIMPSON STRONG-TIE	LGT2 / LGT3-SDS2.5	11470.7
	VALLEY TRUSS CLIP	SIMPSON STRONG-TIE	VTC2	10861.3
X	POST CAP	SIMPSON STRONG-TIE	ACA4 / ACE4 / ACE6	10860.1
X	POST BASE	SIMPSON STRONG-TIE	ABU44 / ABU66 / ABU88	10849.6

ISSUED FOR CONSTRUCTION

REVISION NOTES

REV #	DATE	ISSUED FOR CONSTRUCTION
0	06-07-11	

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STRUCTURAL CIVIL ENGINEERS
Gary J. Gill, PE 51942
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HIGGS
BARN BUILDING PLANS
COLUMBIA COUNTY, FLORIDA

TITLE SHEET

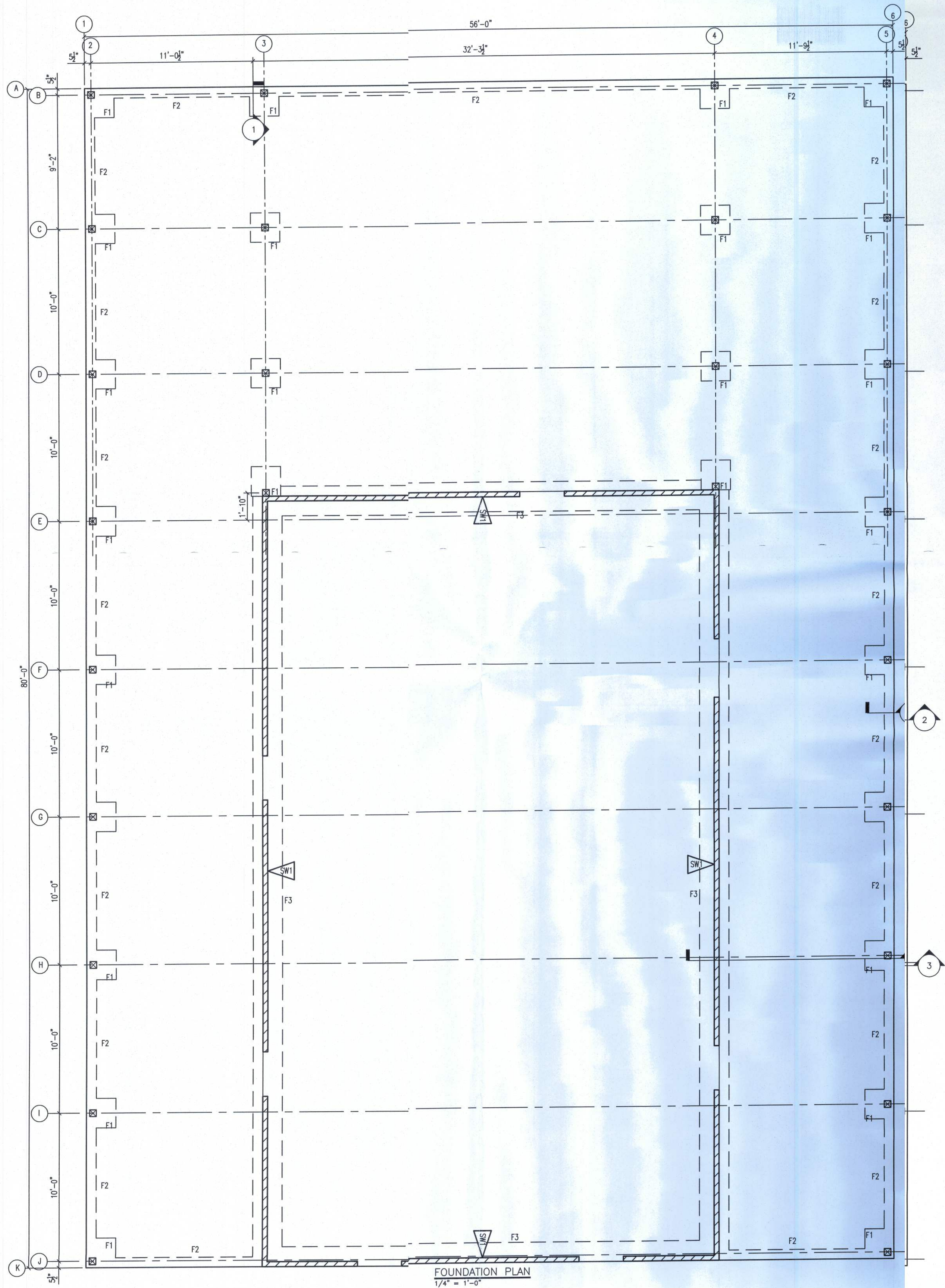
PROJECT NUMBER
PF11-066

DRAWN BY
F. VULETICH

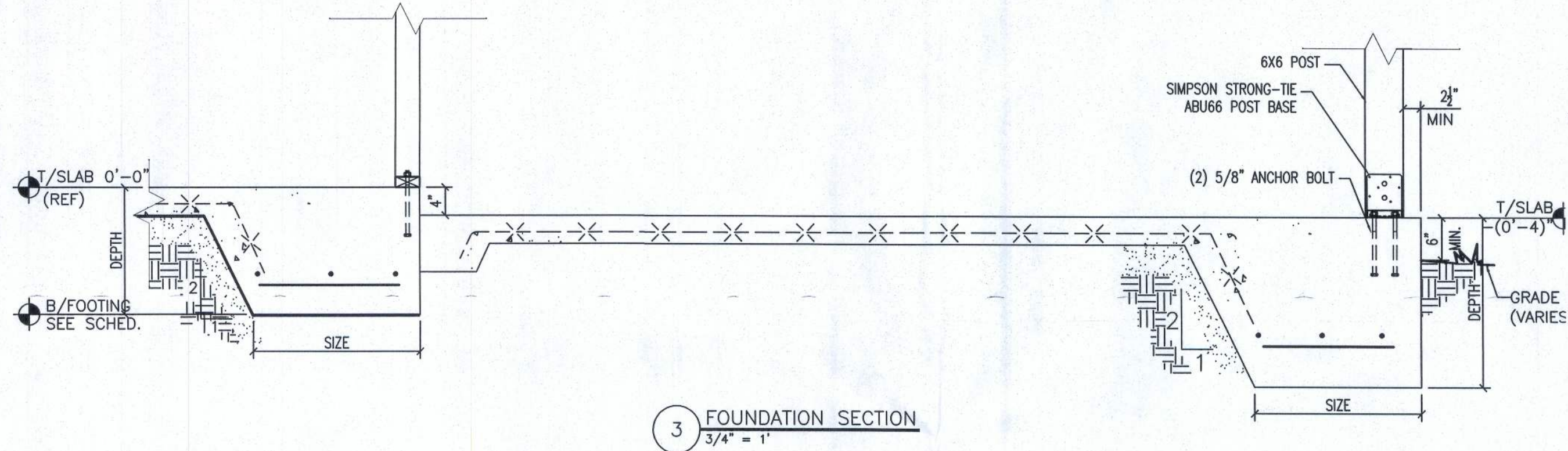
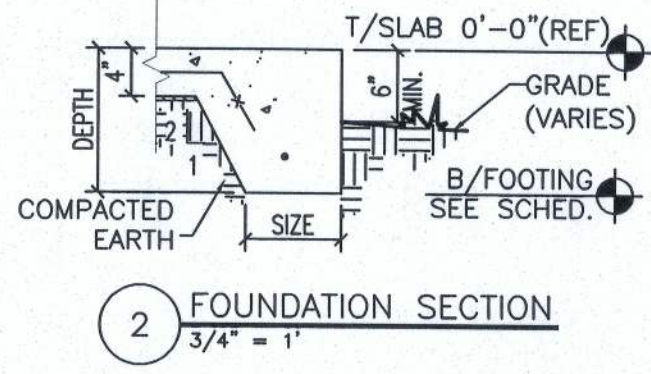
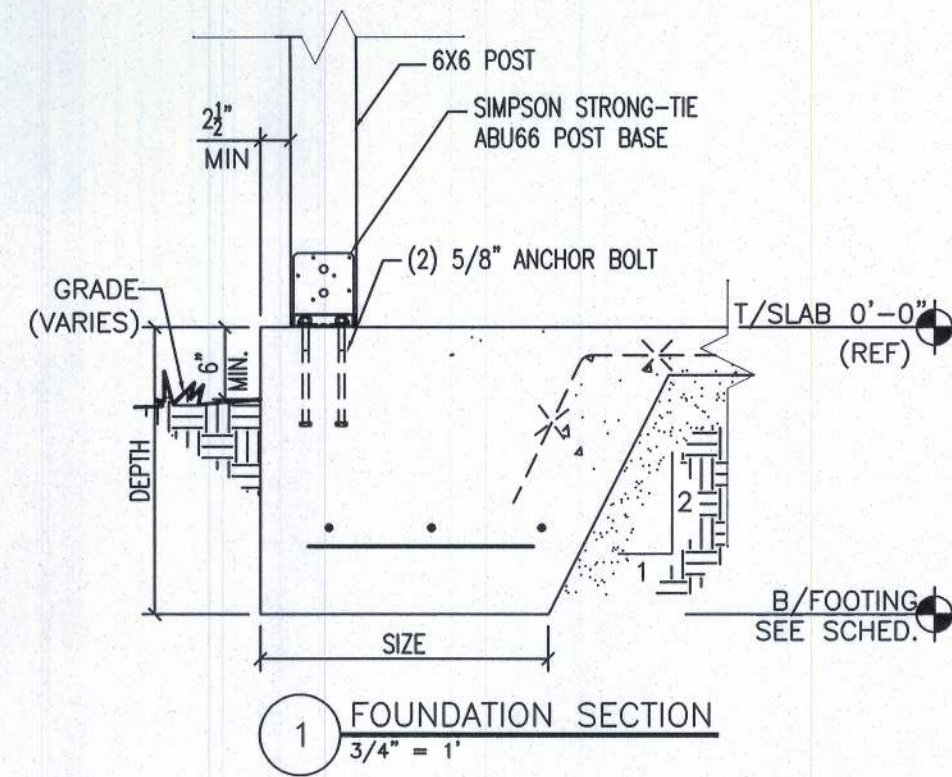
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G.G.

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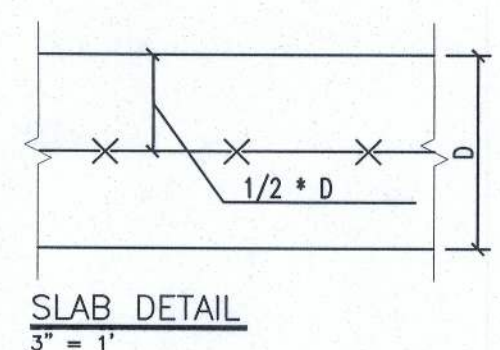
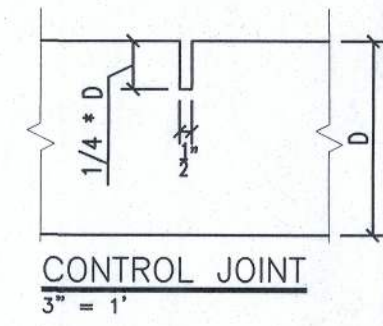
SHEET 1 OF 5



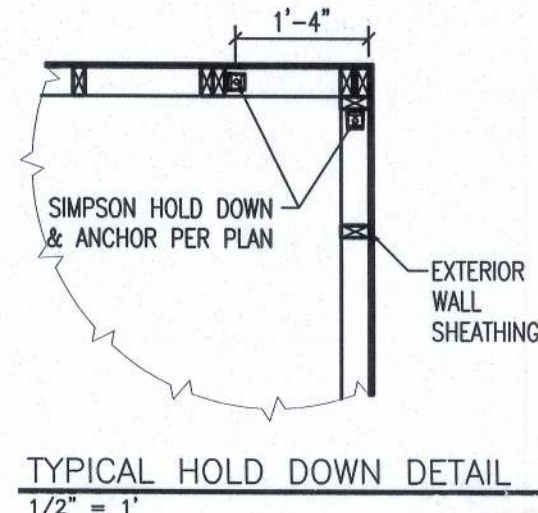
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FOOTING SCHEDULE				
FOOTING MARK	FOOTING DIMENSIONS SIZE	DEPTH	BOTTOM REBAR	TOP REBAR
F-1	2'-0"X2'-0"	2'-0"	(3) #5 E.W.	N/A
F-2	0'-8" CONT.	1'-0"	(1) #5	N/A
F-3	1'-4" CONT.	1'-6"	(2) #5	N/A



- NOTES:
- (1) BOTTOM OF ALL FOOTINGS SHALL BE NO LESS THAN 12" BELOW UNDISTURBED GROUND SURFACE.
 - (2) COMBINED AND INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2,000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF.
 - (3) THE CLEARED AND/OR CUT SURFACE IN BUILDING CONSTRUCTION AREAS MUST BE PROOF-ROLLED USING A HEAVY ROLLER-COMPACTOR. ADJUST THE MOISTURE CONTENT OF THE SOIL, AS NECESSARY, TO AID COMPACTION. THE OBJECTIVE IS TO ACHIEVE A MINIMUM 90% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) TO A DEPTH OF AT LEAST 8" BELOW THE COMPACTION SURFACE.
 - (4) AFTER SATISFACTORY PROOF ROLLING OF THE CLEARED AND/OR CUT SURFACES IN ACCORDANCE WITH THE ABOVE, FILLING WITH SUITABLE, WELL COMPACTIONED SOIL MAY PROCEED. FILL MATERIAL SHOULD BE PLACED IN LEVEL LIFTS NOT TO BE EXCEEDING 8" IN UNCOMPACTIONED THICKNESS. EACH LIFT SHOULD BE COMPACTIONED BY REPEATED PASSES WITH THE APPROPRIATE COMPACTION EQUIPMENT, TO ACHIEVE AT LEAST 90% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD THE FILLING AND COMPACTION OPERATIONS SHOULD CONTINUE UNTIL THE DESIRED ELEVATION IS ACHIEVED.
 - (5) FILL MATERIALS REQUIRED TO ELEVATE THE SLAB AREA SHOULD CONSIST OF SELECT FILLS, WHICH ARE UNIFORMLY GRADED CLEAN SANDS TO SLIGHTLY SILTY OR SLIGHTLY CLAYEY SANDS, FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS, WITH LESS THAN 35% PASSING THROUGH THE NO. 200 SIEVE.
 - (6) CONTRACTOR SHALL VERIFY ALL FOUNDATION DIMENSIONS PRIOR TO CONSTRUCTION. IF A DIMENSION CONFLICT OCCURS BETWEEN FLOOR PLAN AND THE FOUNDATION PLAN, THE FLOOR PLAN SHALL CONTROL.
 - (7) THE ELEVATION OF THE FLOOR SURFACE ON BOTH SIDES OF ANY DOOR SHALL NOT VARY MORE THAN 1/2" FOR A DISTANCE OF NOT LESS THAN THE WIDTH OF THE WIDEST LEAF.



REVISION NOTES		PROJECT NUMBER	
REV #	DATE	PF11-006	
0	06-07-11	DRAWN BY	
		F. VULETICH	
		CHECKED BY	
		G.G.	
		S-1.0	
		SHEET 2 OF 5	

HIGGS

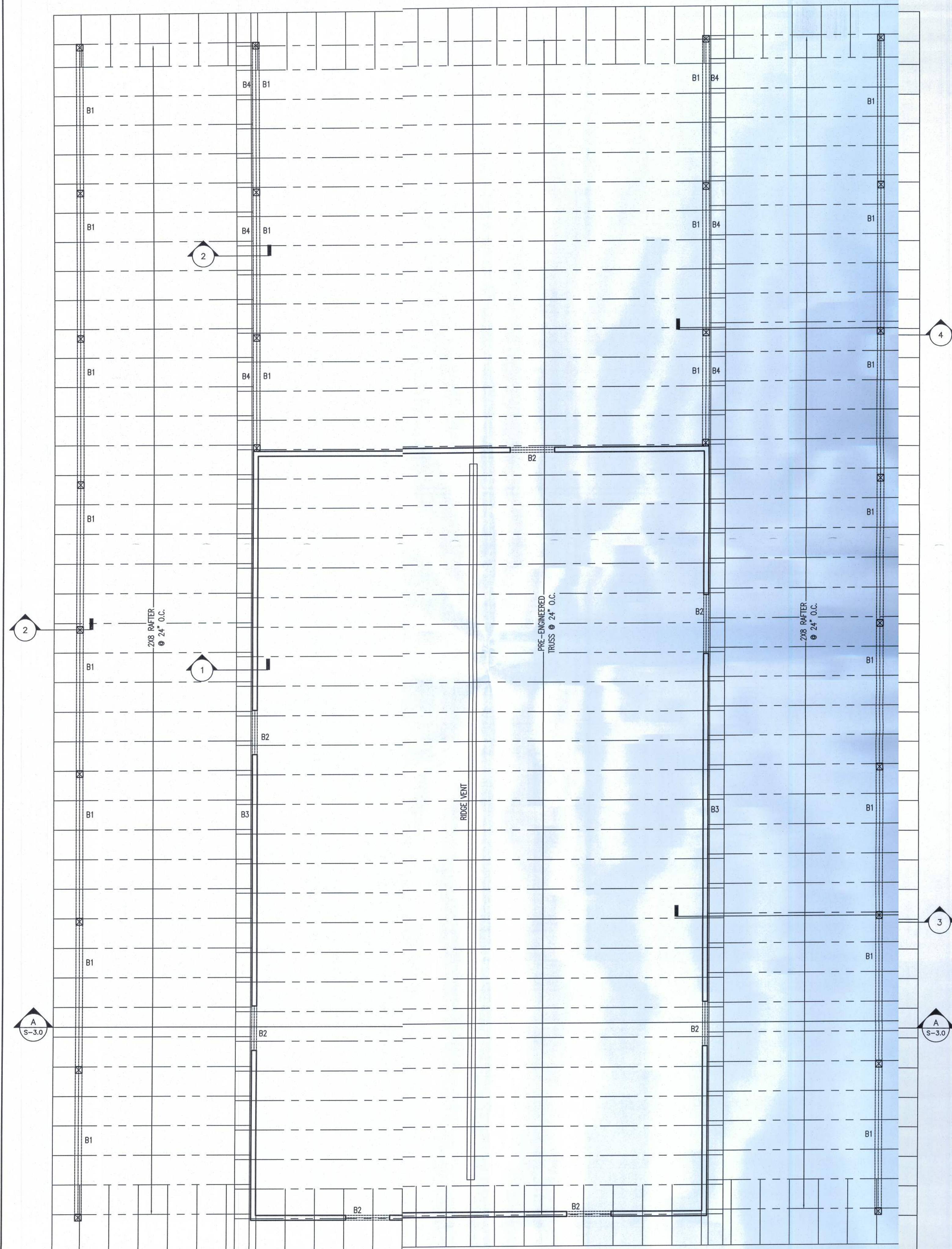
BARN BUILDING PLANS

COLUMBIA COUNTY, FLORIDA

FOUNDATION PLAN

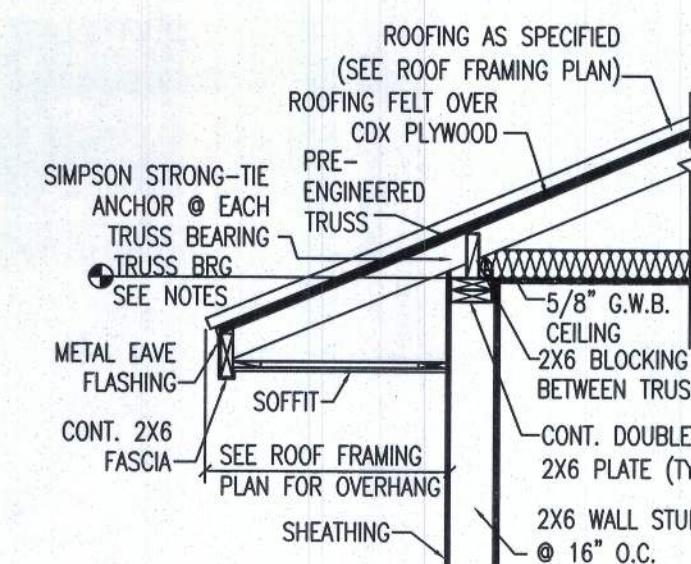
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STRUCTURAL CIVIL ENGINEERS

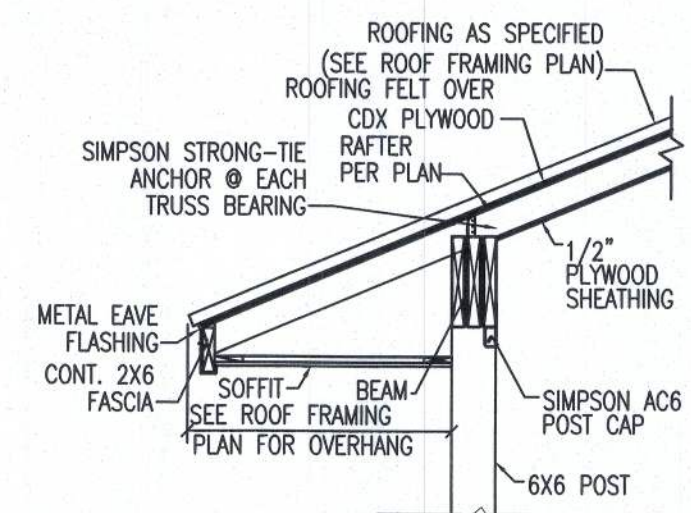


ROOF FRAMING PLAN
1/4" = 1'-0"

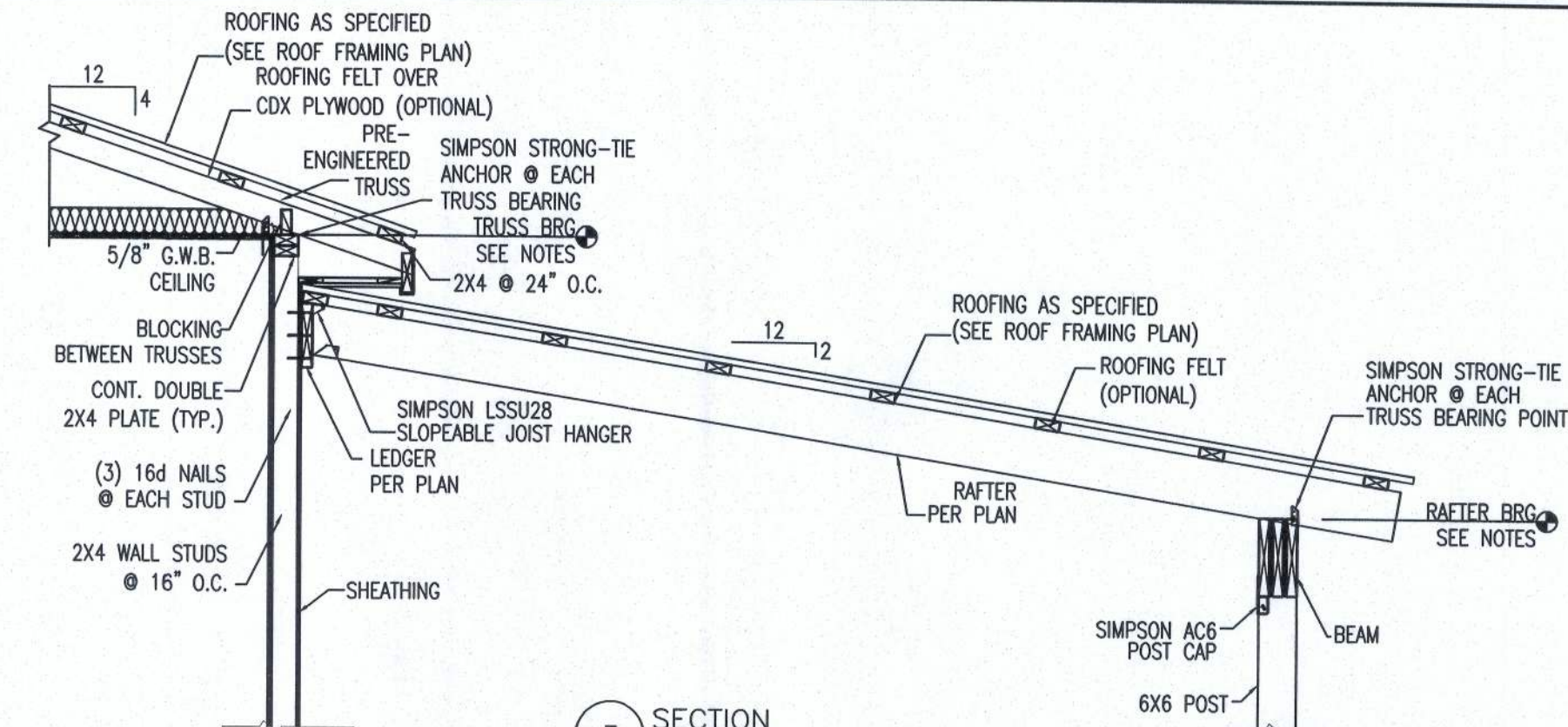
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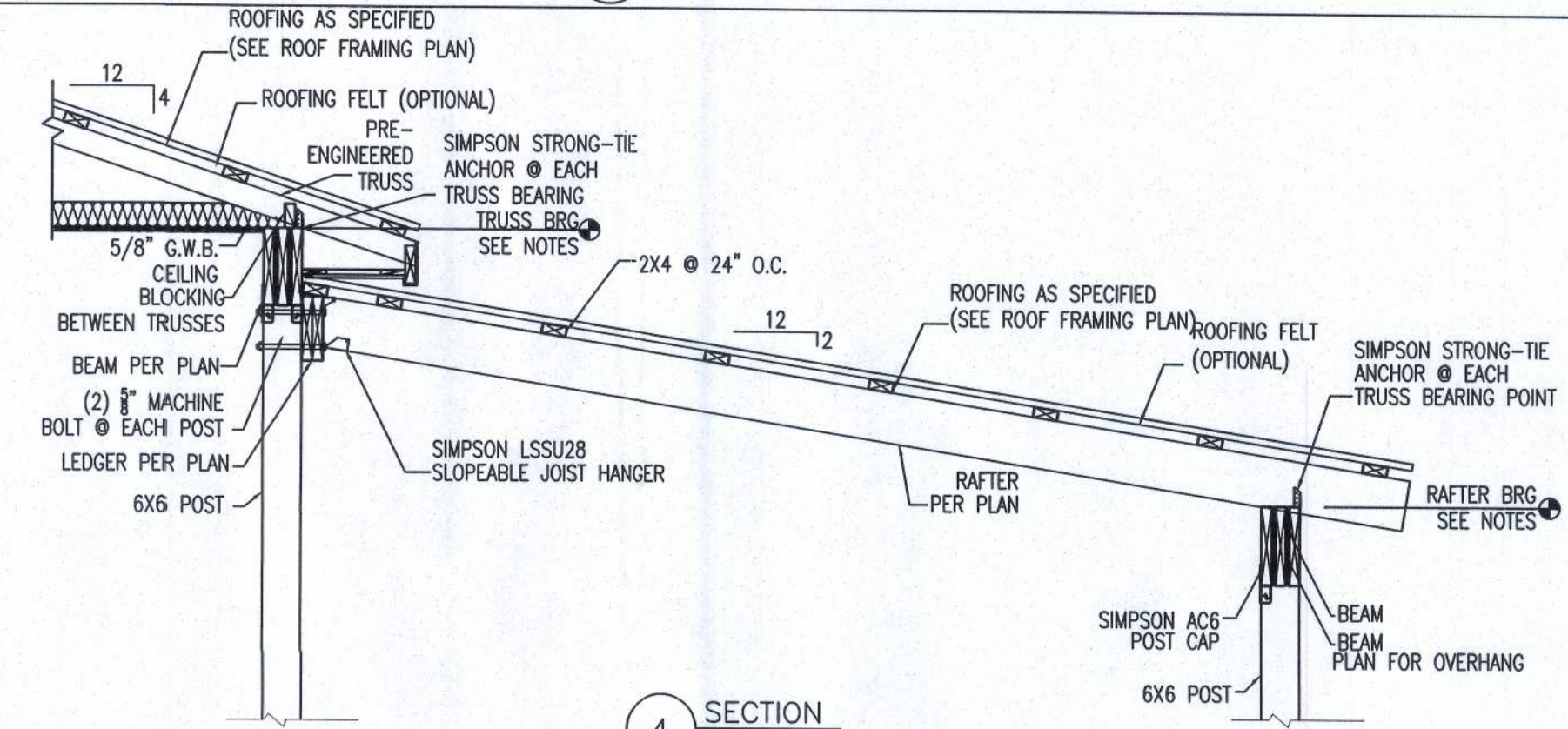
1 SECTION
1/2" = 1'



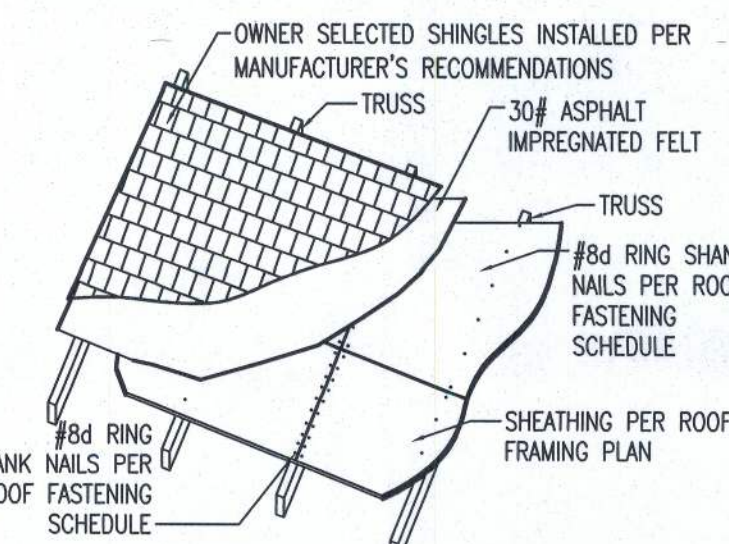
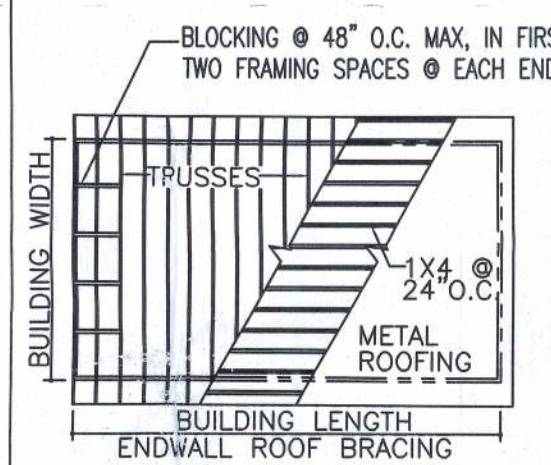
2 SECTION
1/2" = 1'



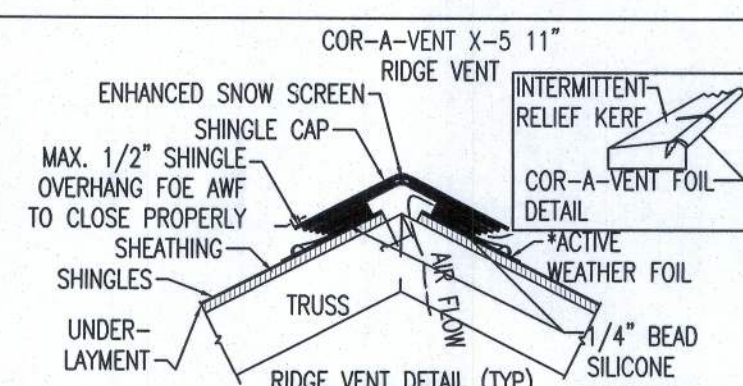
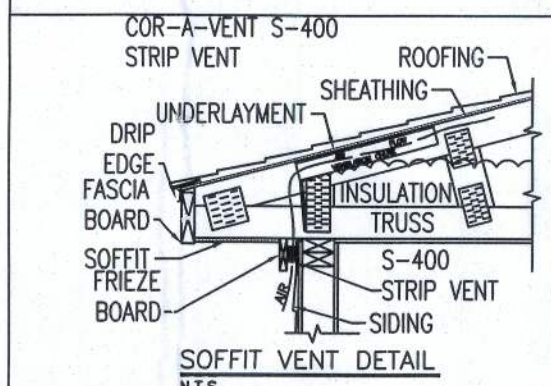
3 SECTION
1/2" = 1'



4 SECTION
1/2" = 1'



ROOFING & SHEATHING CONNECTIONS TO TRUSSES

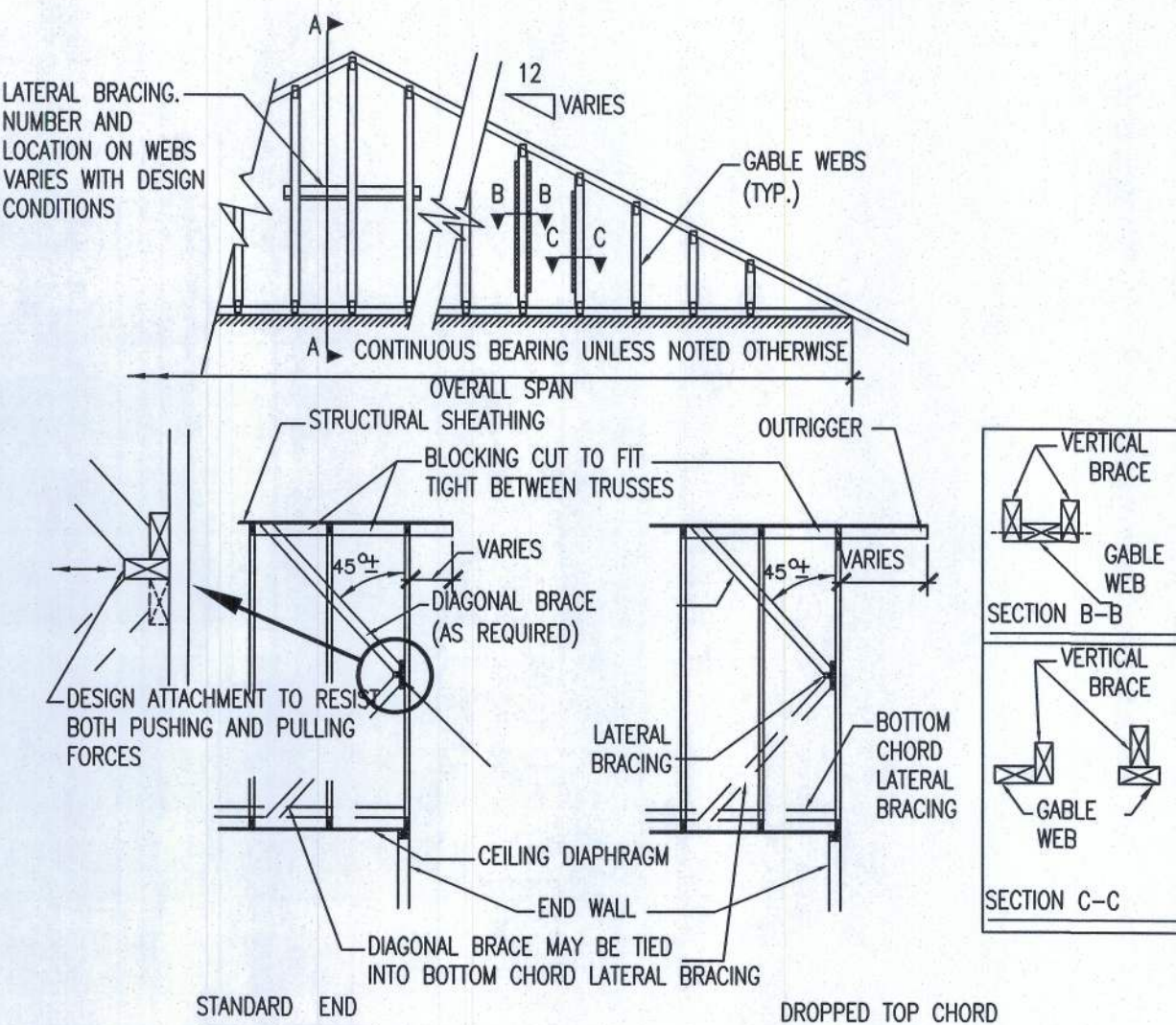


NOTES:
(1) TYPICAL BARN ROOF TRUSS BEARING @ EL. 10'-0" & LEAN-TO RAFTER BEARING @ EL. 7'-0" (2) SLOPED ROOF SHEATHING SHALL BE 1/2" CDX PLYWOOD OR 1/2" OSB NAILED PER ROOF FASTENING SCHEDULE (3) COORDINATE LOCATION OF ALL DOORS AND WALL OPENINGS WITH ARCHITECTURAL DRAWINGS. (4) 800 SQUARE INCHES (TOTAL) OF VENTILATION REQUIRED WITH 50-80% FROM ATTIC VENT AND THE REMAINDER FROM SOFFIT VENTS.

BEAM SCHEDULE	
SYMBOL/MARK	DESCRIPTION
B1	(3) 2"x10" W/ 1" PLYWOOD FILLER
B2	(2) 2"x10" W/ 1" PLYWOOD FILLER
B3	(1) 2"x10" LEDGER
B4	(2) 2"x10" LEDGER

TRUSS FASTENER SCHEDULE					
LOCATION	PLY	UPLIFT	FASTENER	NAILS REQUIRED	
			QUANTITY	ITEM #	PLATE
ROOF TRUSS	1	< 415 #	1	H2.5	(5) Bd
	1	< 905 #	1	H10	(8) 8dX1 1/2
	1	< 1200 #	2	H2.5	(10) Bd
	2	< 870 #	1	H10S	(8) 8dX1 1/2
	2	< 2150 #	1	LGT2	(14) 16d SINKERS (16) 16c SINKERS
	3	< 3685 #	1	LGT3-SDS2.5	(26) 16d SINKERS (12) 16c SINKERS

ROOF FASTENING ZONE									
WIND VELOCITY (3 SECOND GUST) 120 MPH	PANEL LOCATION		MAIN ROOF		SHEATHING TO GABLE-END-WALL FRAMING		OVERHANG (EAVES)		FASTENING SCHEDULE (INCHES x CENTER)
			1	2	3	2	3	2	
	SUPPORTED PANEL END AND EDGES		6	6	6	3	3	6	6
	PANEL FIELD		12	6	4	3	3	6	4



NOTES:
1. ACTUAL BRACING REQUIREMENTS WILL VARY DUE TO WIND LOAD, CODE CRITERIA BUILDING HEIGHT, TRUSS SPAN, WEB LUMBER (GRADE AND SPECIES), ON CENTER SPACING, AND OTHER VARIABLES. BRACING AND ATTACHMENT REQUIREMENTS SHOULD BE DESIGNED FOR EACH SPECIFIC JOB. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL, AS WELL AS THE DESIGN AND SPECIFICATION OF TEMPORARY AND PERMANENT BRACING OF THE ROOF SYSTEM IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.



ROOF FASTENING PLAN
3/32" = 1'

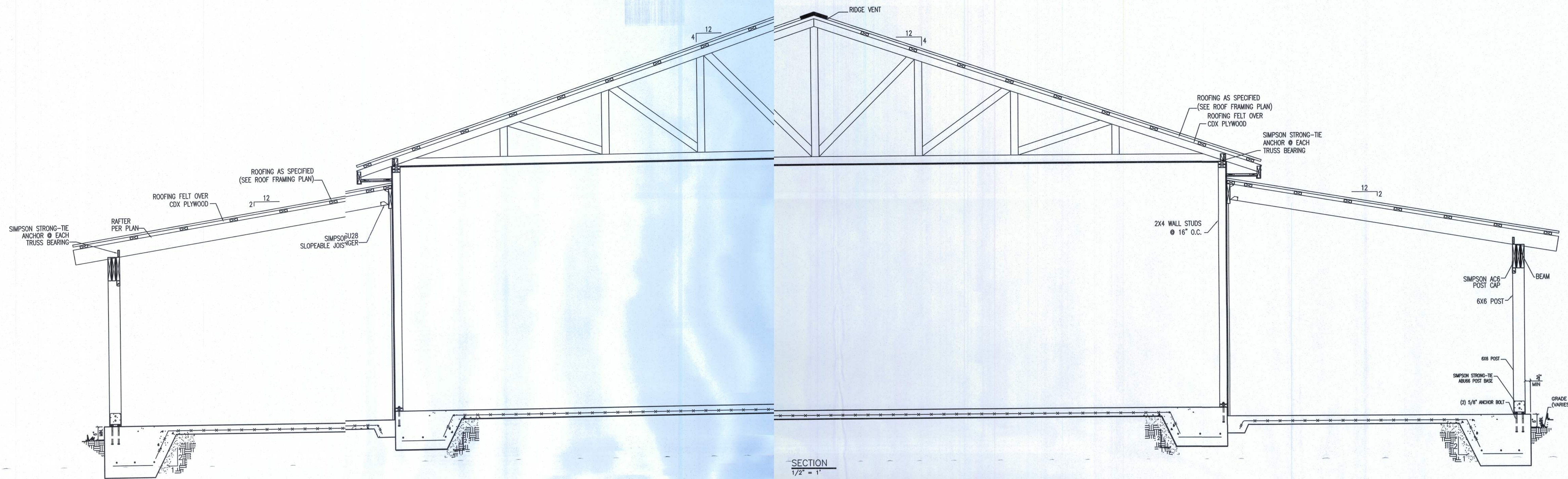
REVISION NOTES
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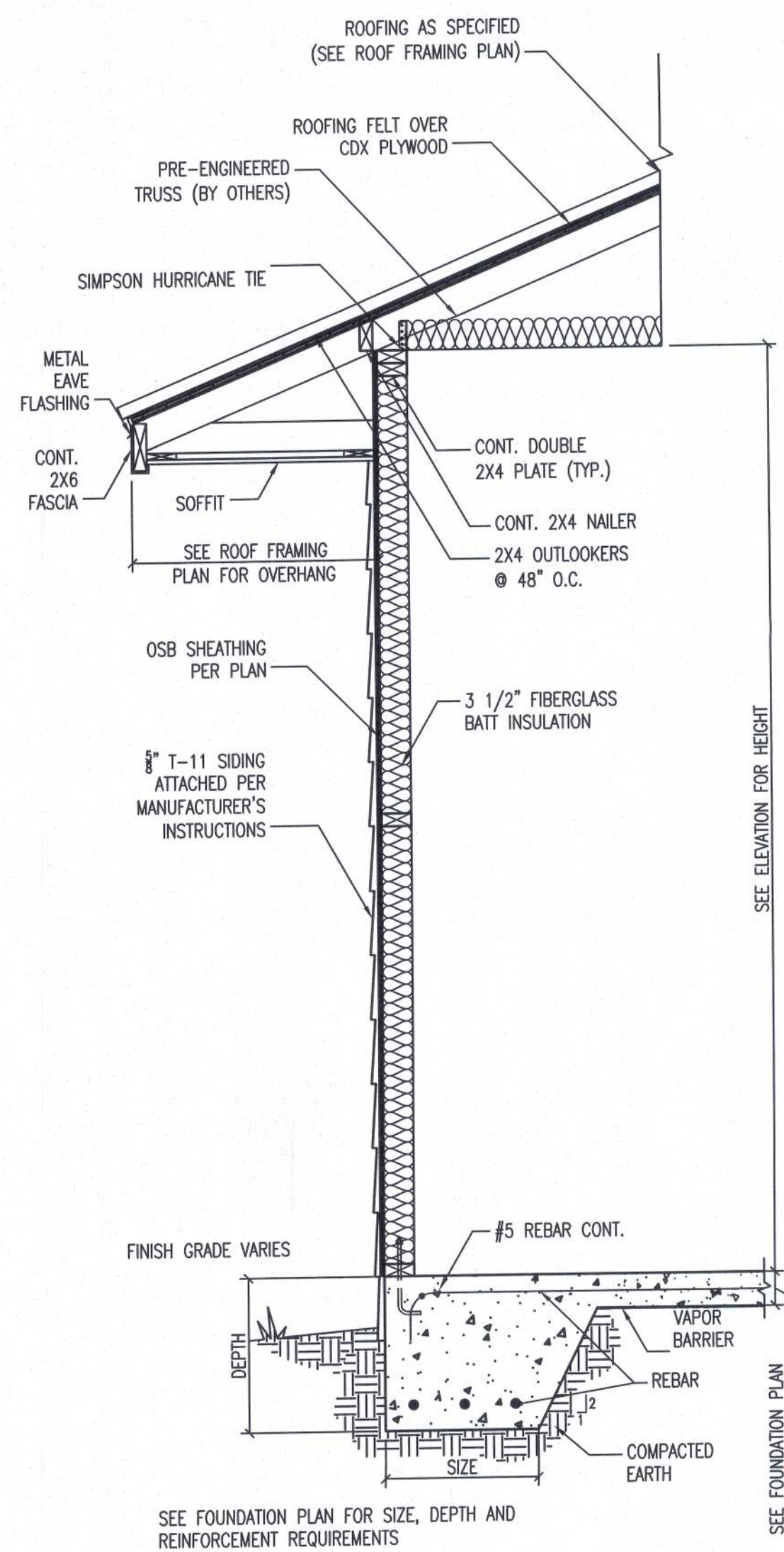
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BARN BUILDING PLANS
COLUMBIA COUNTY, FLORIDA

ROOF FRAMING PLAN

PROJECT NUMBER
PF11-066
DRAWN BY
F. VULETICH
CHECKED BY
G.G.
S-2.0
SHEET 3 OF 5

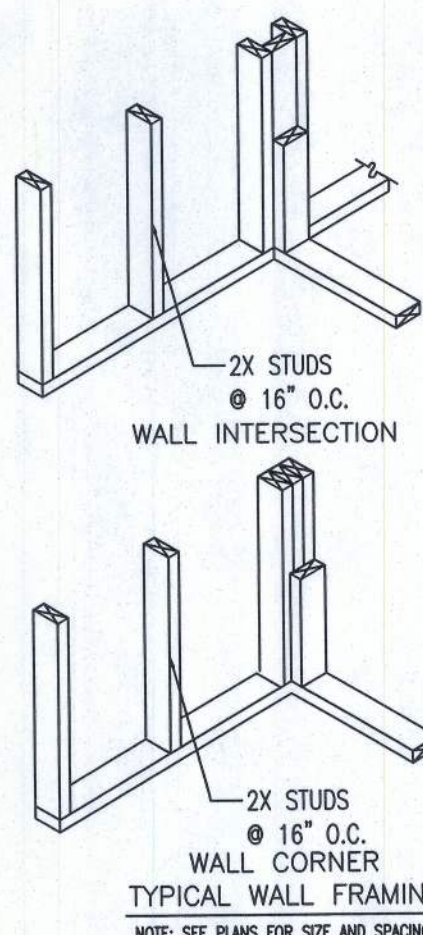
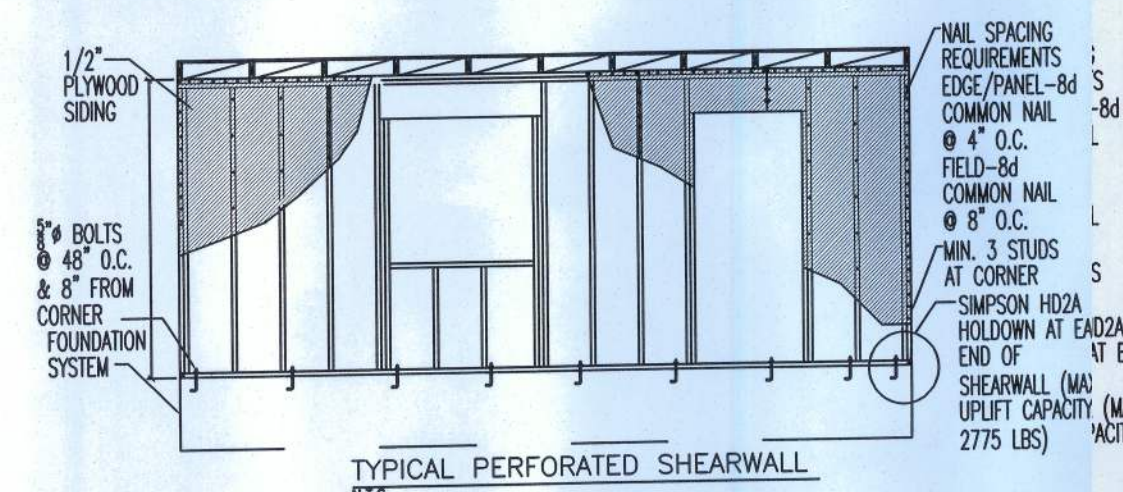
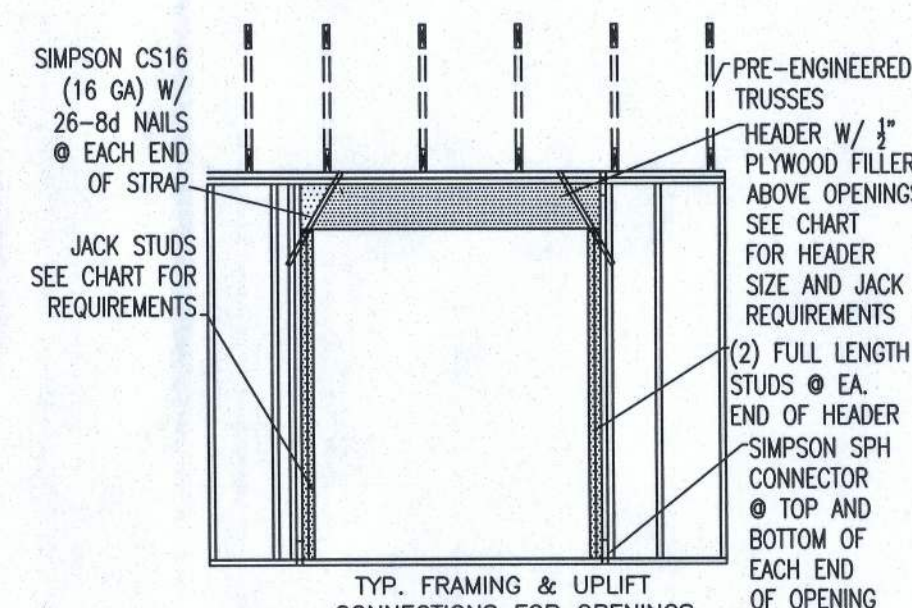
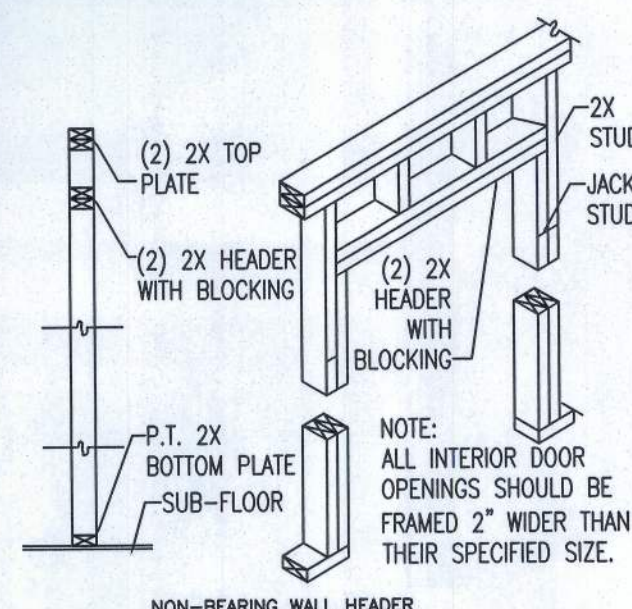


SECTION
1/2" = 1'



2X4 WALL SECTION
1/2" = 1'

STUD FASTENER SCHEDULE									
LOCATION	STUD/PLATE	TRUSS UPLIFT	UPLIFT ON STUD	SPACING (STAGGERED)		FASTENER	QUANTITY	ITEM #	NAILS REQUIRED
				TOP PLATE	BOTTOM PLATE				
STUD	2X4	< 549 #	< 368 #	32" O.C.	32" O.C.	1 SP4	(6)	10d	0d x 1 1/2
	2X6	< 549 #	< 368 #	32" O.C.	32" O.C.	1 SP6	(6)	10d	0d x 1 1/2
	2X	< 743 #	< 445 #	32" O.C.	32" O.C.	1 SP2	(6)	10d	(6) 10d
	2X	< 1328 #	< 890 #	16" O.C.	16" O.C.	1 SP2	(6)	10d	(6) 10d
	2X	< 1015 #	< 680 #	32" O.C.	32" O.C.	1 SPH4	(12)	10d	0d x 1 1/2
	2X	< 2029 #	< 1360 #	16" O.C.	16" O.C.	1 SPH4	(12)	10d	0d x 1 1/2
	2X	< 1015 #	< 680 #	32" O.C.	32" O.C.	1 SPH6	(12)	10d	0d x 1 1/2
	2X	< 2029 #	< 1360 #	16" O.C.	16" O.C.	1 SPH6	(12)	10d	0d x 1 1/2



HEADER SPANS FOR EXTERIOR BEARING WALLS						
SUPPORTING:	HEADER SIZE	BUILDING WIDTH (FT)				
		SPAN	JACKS	SPAN	JACKS	SPAN
ROOF, CEILING	2-2x4	3'-6"	1	3'-2"	1	2'-10"
ROOF, CEILING	2-2x6	5'-5"	1	4'-8"	1	4'-2"
ROOF, CEILING	2-2x8	6'-10"	1	5'-11"	2	5'-4"
ROOF, CEILING	2-2x10	8'-5"	2	7'-3"	2	6'-6"
ROOF, CEILING	2-2x12	9'-9"	2	8'-5"	2	7'-6"
ROOF, CEILING	3-2x8	8'-4"	1	7'-5"	1	6'-8"
ROOF, CEILING	3-2x10	10'-6"	1	9'-1"	2	8'-2"
ROOF, CEILING	3-2x12	12'-2"	2	10'-7"	2	9'-5"
ROOF, CEILING	4-2x8	9'-2"	1	8'-4"	1	9'-2"
ROOF, CEILING	4-2x10	11'-8"	1	10'-6"	1	9'-5"
ROOF, CEILING	4-2x12	14'-1"	1	12'-2"	2	10'-11"

ISSUED FOR CONSTRUCTION

REVISION NOTES

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REV #

DATE

0

06-07-11

PROJECT NUMBER

PF11-066

DRAWN BY

F. VULETICH

CHECKED BY

G.G.

S-3.0

SHEET 4 OF 5

HIGGS

BARN BUILDING PLANS

COLUMBIA COUNTY, FLORIDA

SECTIONS

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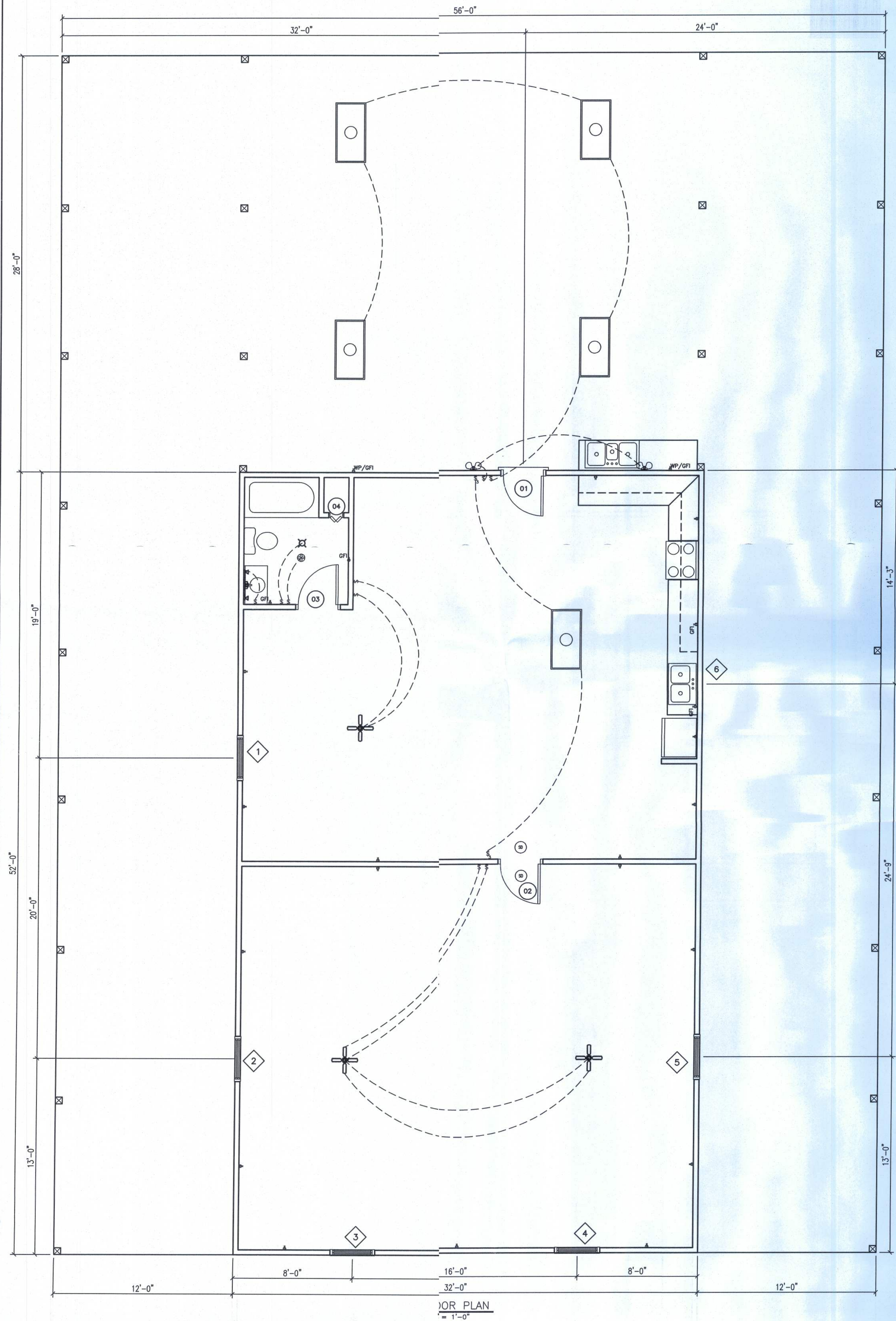
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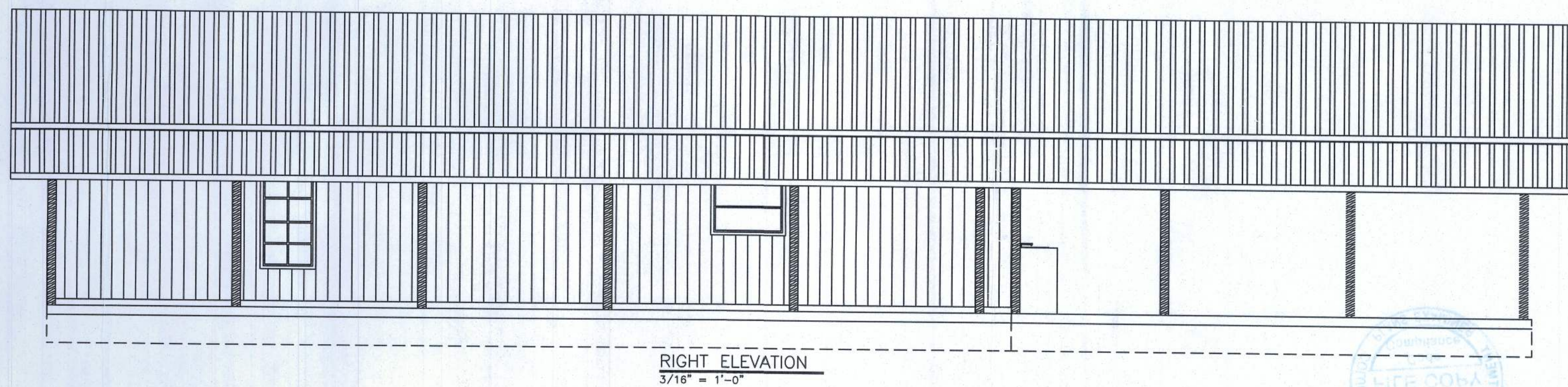
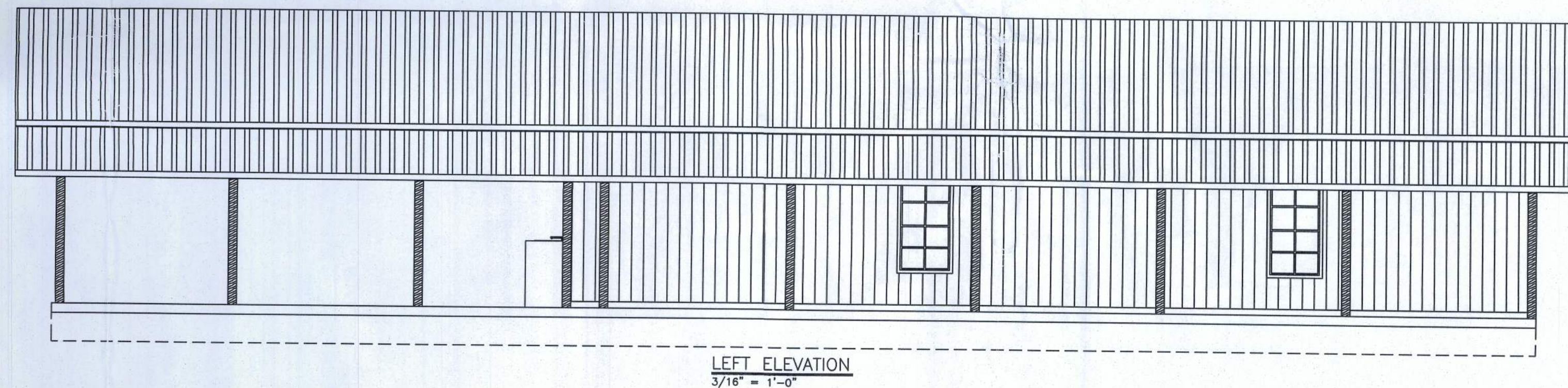
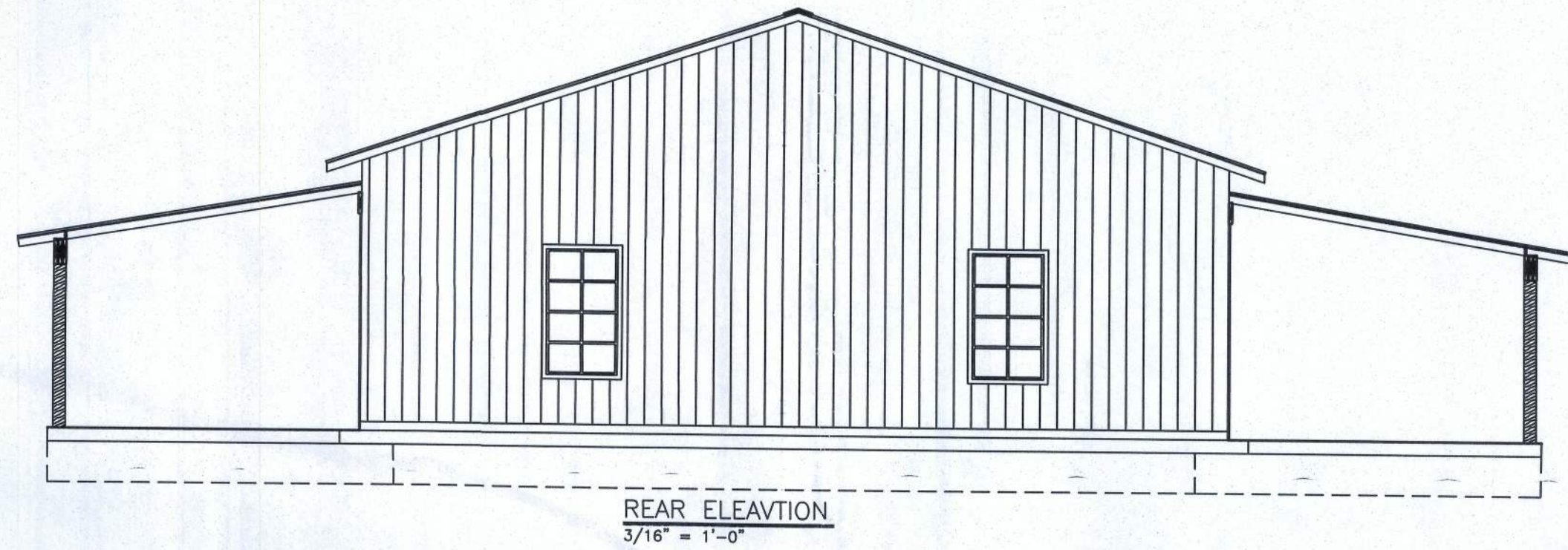
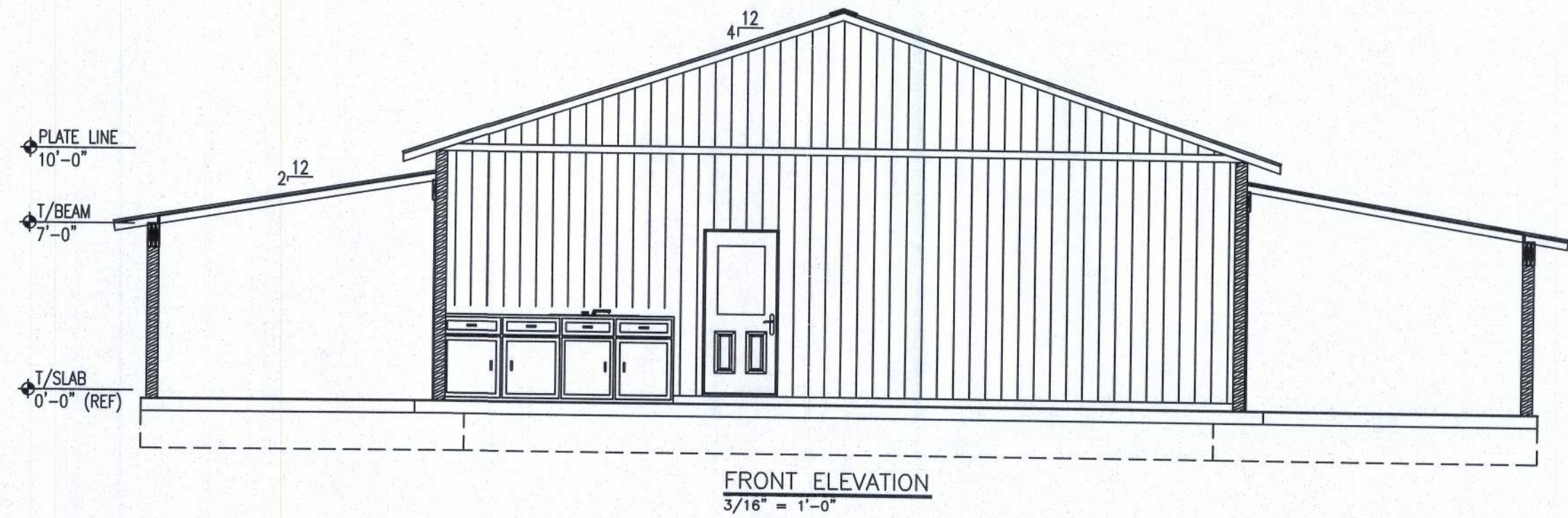
STRUCTURAL CIVIL ENGINEER

1/2" = 1'



- ELECTRICAL PLAN NOTES:
1. WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.
 2. CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.
 3. INSTALLATION SHALL BE PER NATIONAL ELECTRIC CODE.
 4. ALL SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.
 5. TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER OWNER'S DIRECTIONS, & IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC - LATEST ADDITION.
 6. ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELECTRICAL PLAN, ADDITIONS TO THE ELECTRICAL PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE WITH ALL CIRCUITS IDENTIFIED WITH CIRCUIT NUMBER, DESCRIPTION, AND BREAKER SERVICE ENT. AND ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIAGRAM SHALL INCLUDE WIRE SIZES/TYPES AND EQUIPMENT TYPE WITH RATINGS AND LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF "AS-BUILT" DRAWINGS TO OWNER AND 1 COPY TO PERMITTING AUTHORITY.
 7. ALL BEDROOM RECEPTACLES SHALL BE ON AFCI PROTECTED CIRCUITS.
 8. ALL BATHROOM RECEPTACLES SHALL BE GFCI.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL
	ELECTRICAL METER
	GFCI OUTLET
	WEATHER PROOF GFCI OUTLET
	220 V OUTLET
	STANDARD OUTLET
	SINGLE POLE SWITCH
	3 WAY SWITCH
	CEILING LIGHT
	EXHAUST FAN
	CEILING FAN/LIGHT
	EXTERIOR LIGHT
	SMOKE DETECTOR
	3 LIGHT FIXTURE



DOOR SCHEDULE					
#	DOOR			STYLE	NOTES
	SIZE	MATL			
	WD	HGT	THK		
1	3'-0"	6'-8"	1 3/4"	HOLLOW METAL HINGED - SINGLE - EXTERIOR	---
2	3'-0"	6'-8"	1 3/4"	WOOD HINGED - SINGLE	---
3	3'-0"	6'-8"	1 3/4"	WOOD HINGED - SINGLE	---
4	1'-0"	6'-8"	1 3/4"	WOOD BIFOLD - SINGLE	---

WINDOW SCHEDULE						
#	SIZE		TYPE	MATL	NOTES	T/ WINDOW ELEVATION
	WIDTH	HEIGHT				
1	3'-0"	8'-0"	FIXED GLASS DOUBLE-PANE LOW E	---	---	6'-8"
2	3'-0"	5'-0"	FIXED GLASS DOUBLE-PANE LOW E	---	---	6'-8"
3	3'-0"	5'-0"	FIXED GLASS DOUBLE-PANE LOW E	---	---	6'-8"
4	3'-0"	5'-0"	FIXED GLASS DOUBLE-PANE LOW E	---	EGRESS	6'-8"
5	3'-0"	5'-0"	FIXED GLASS DOUBLE-PANE LOW E	---	EGRESS	6'-8"
6	4'-0"	3'-0"	FIXED GLASS DOUBLE-PANE LOW E	---	---	6'-8"

ISSUED FOR CONSTRUCTION

REVISION NOTES

REV #	DATE	ISSUED FOR CONSTRUCTION
0	06-07-11	

PROJECT NUMBER

PF11-066

DRAWN BY

F. VULETICH

CHECKED BY

G.G.

A-1.0

HIGGS

BARN BUILDING PLANS

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