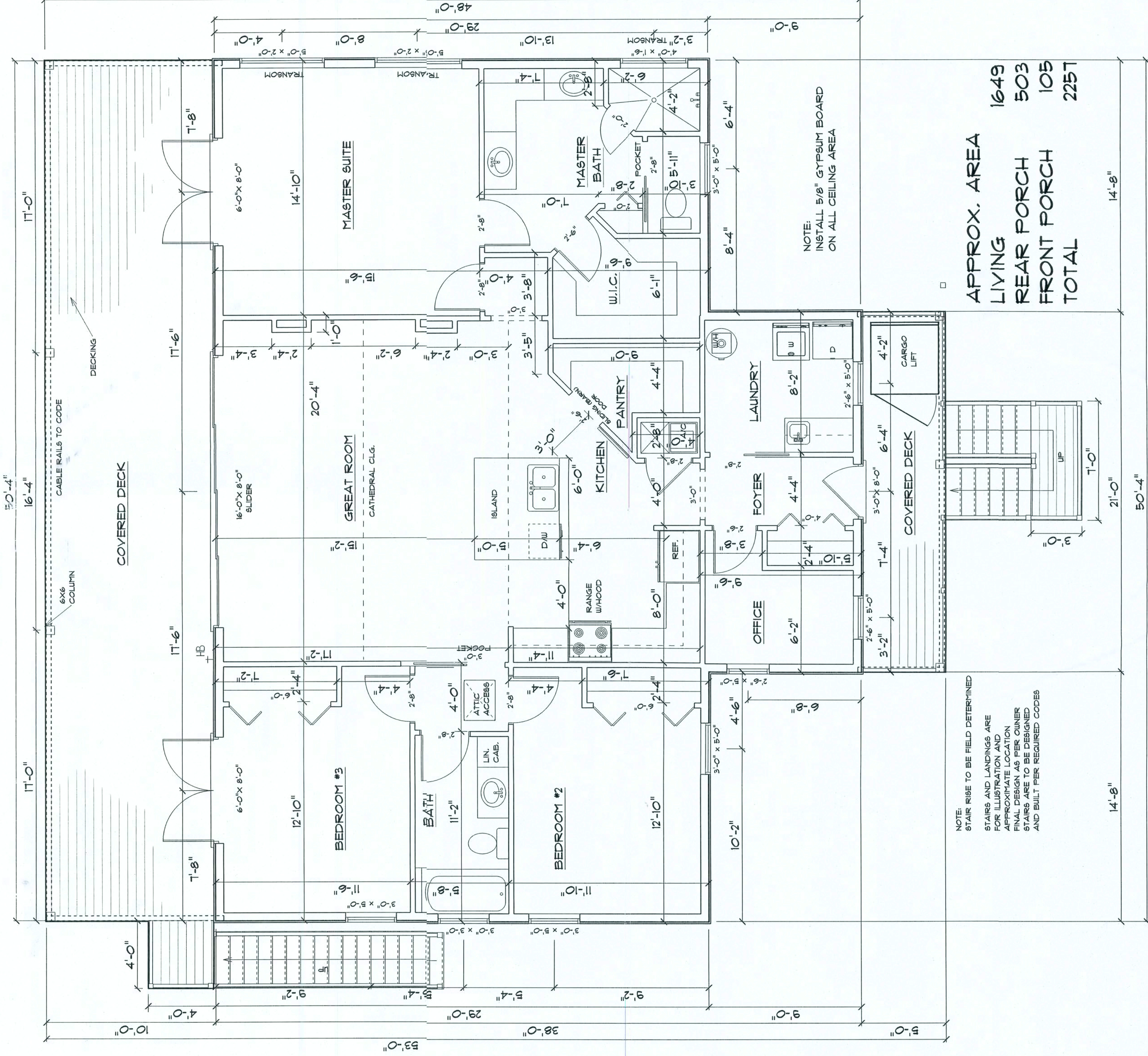


NOTE:  
STAIRS AND LANDINGS ARE  
FOR ILLUSTRATION AND  
NOT TO SCALE. FINAL  
DESIGN IS PER OWNER.  
STAIRS ARE TO BE DESIGNED  
AND BUILT PER REQUIRED CODES

IT IS THE OWNER AND OR THE CONTRACTORS  
RESPONSIBILITY TO VERIFY ALL STRUCTURAL ASPECTS  
OF THESE DRAWINGS. THIS INCLUDES BUT NOT LIMITED TO  
DIMENSIONS, WALL HEIGHTS AND MATERIAL WINDOW SIZE AND  
LOCATION. ALSO ALL STATE AND LOCAL CODES MUST BE FOLLOWED

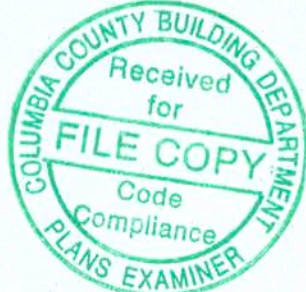
ALL WINDOWS AND DOORS TO  
BE INSTALLED PER MANUFACTURERS  
RECOMMENDATIONS AND MUST COMPLY  
WITH CURRENT CODES. SUBMIT ALL  
WORKSHEET WITH PERMIT DOCUMENTS



#### DESIGN CRITERIA

FL. BUILDING CODE	RESIDENTIAL	2014
FL. ELECTRICAL	NAT. ELEC. CODE	2008
FL. PLUMBING	FL.	2014
FL. MECHANICAL	FL.	2014
WIND LOAD DESIGN	ASCE 7-10 (ALL HEIGHTS)	
WIND LOAD DESIGN	FBC, TPI 2001	FBC 2014
ROOF LIVE LOAD	20 PSF	
FLOOR LIVE LOAD	40 PSF	

#### MAIN FLOOR PLAN



McCALL RESIDENCE

SCALE 1/4" = 1'  
DRAWN BY P.A.C.  
APPROVED

COLACINO  
DRAFTING#DESIGN  
PH. 352-472-3462

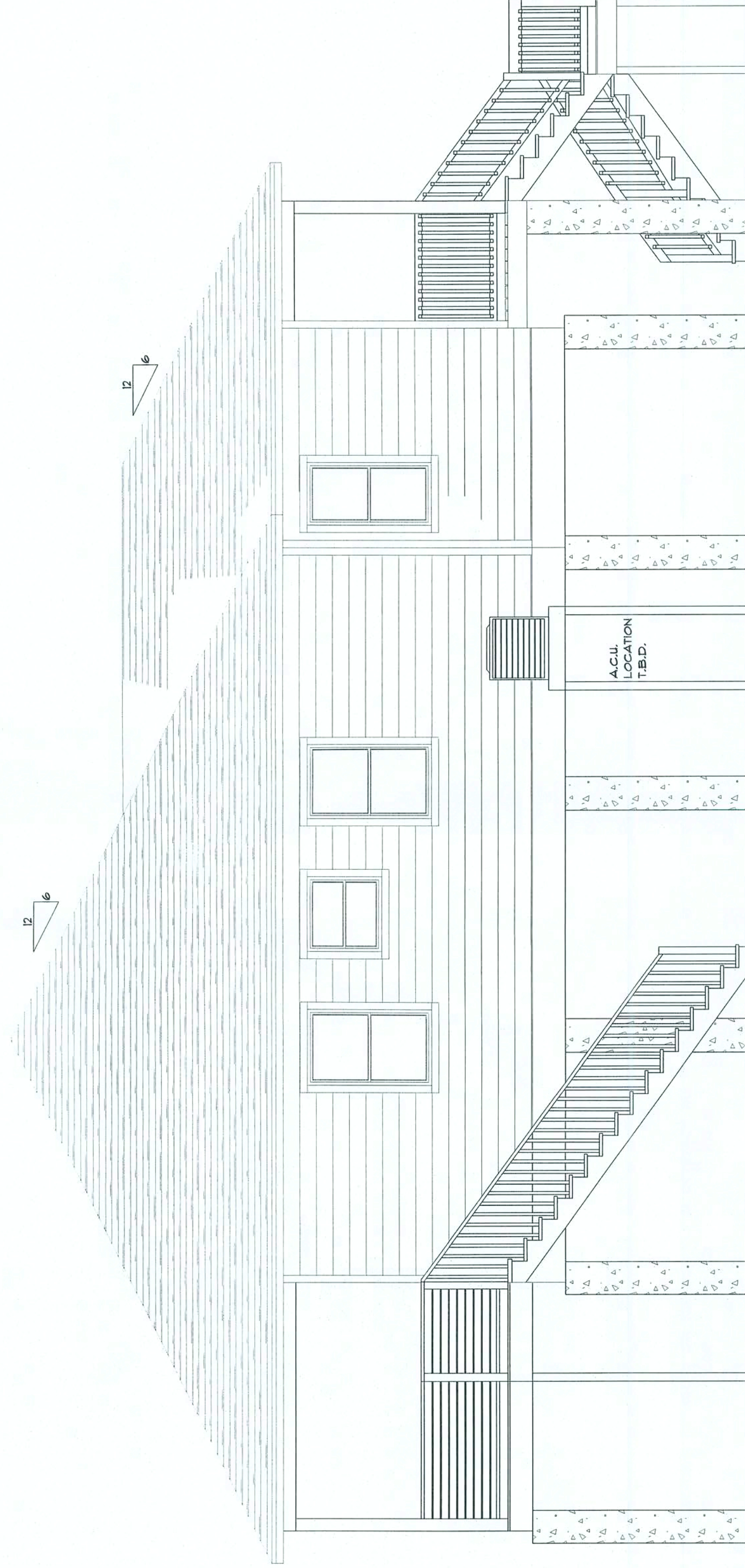
DATE 9/8/16  
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REVISED

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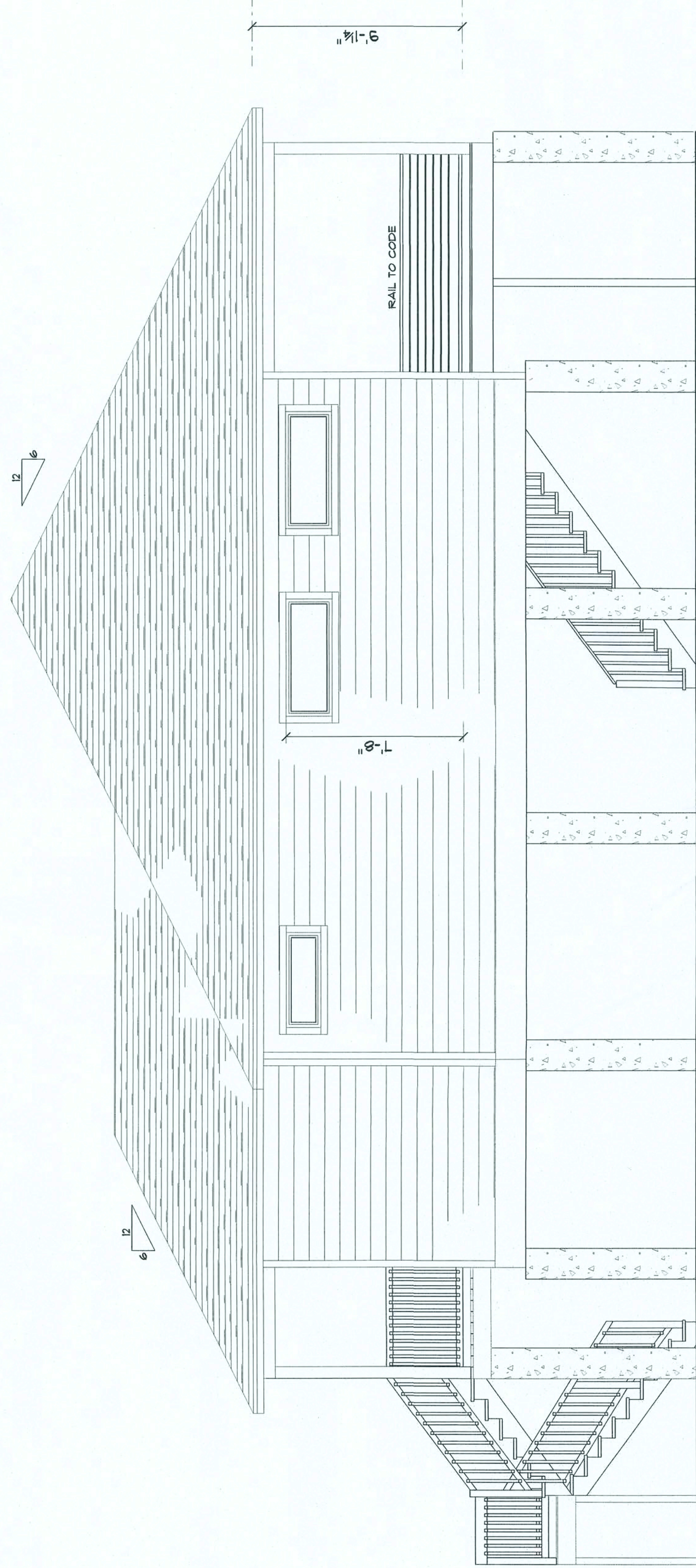








LEFT ELEVATION

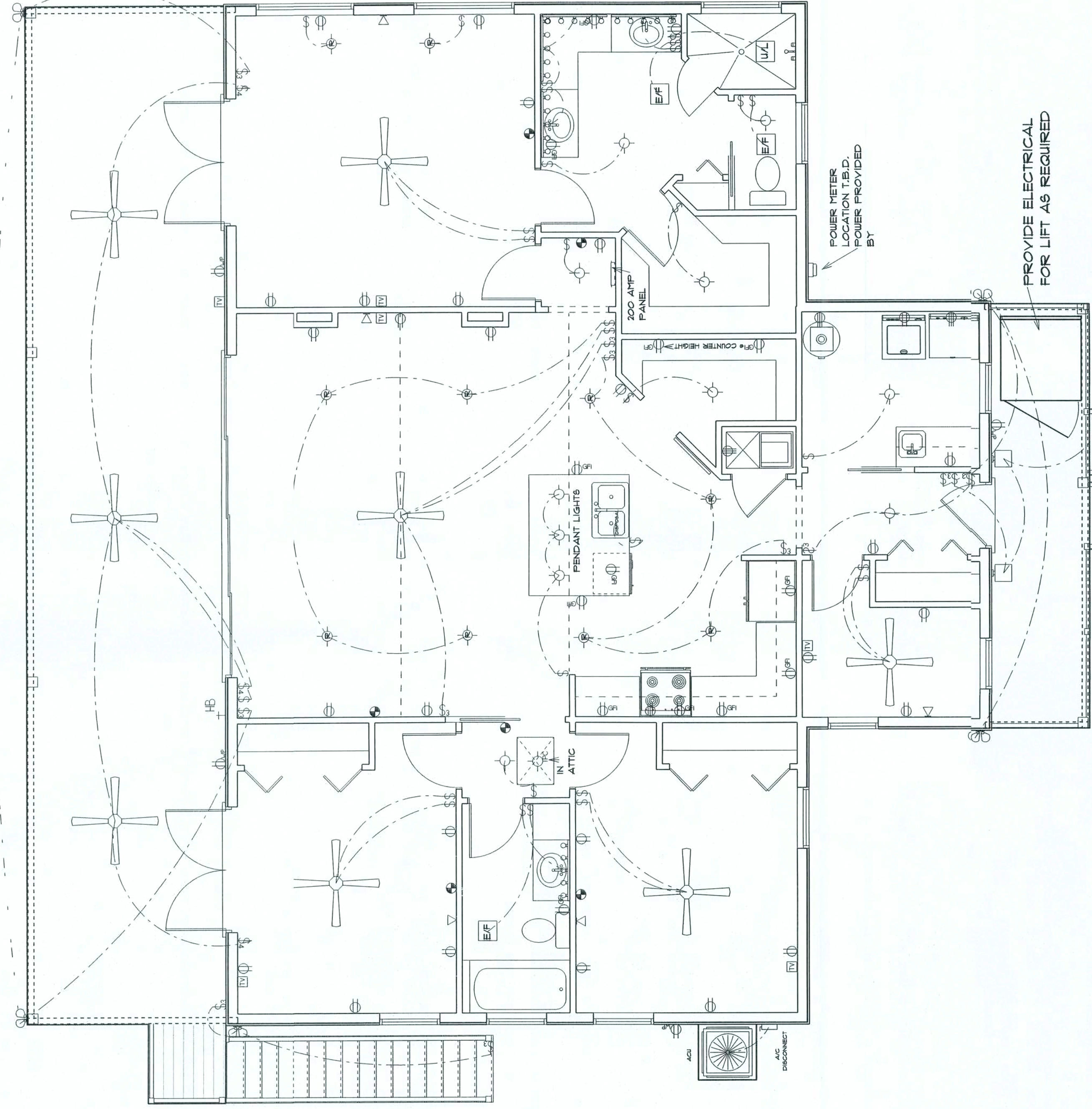


RIGHT ELEVATION

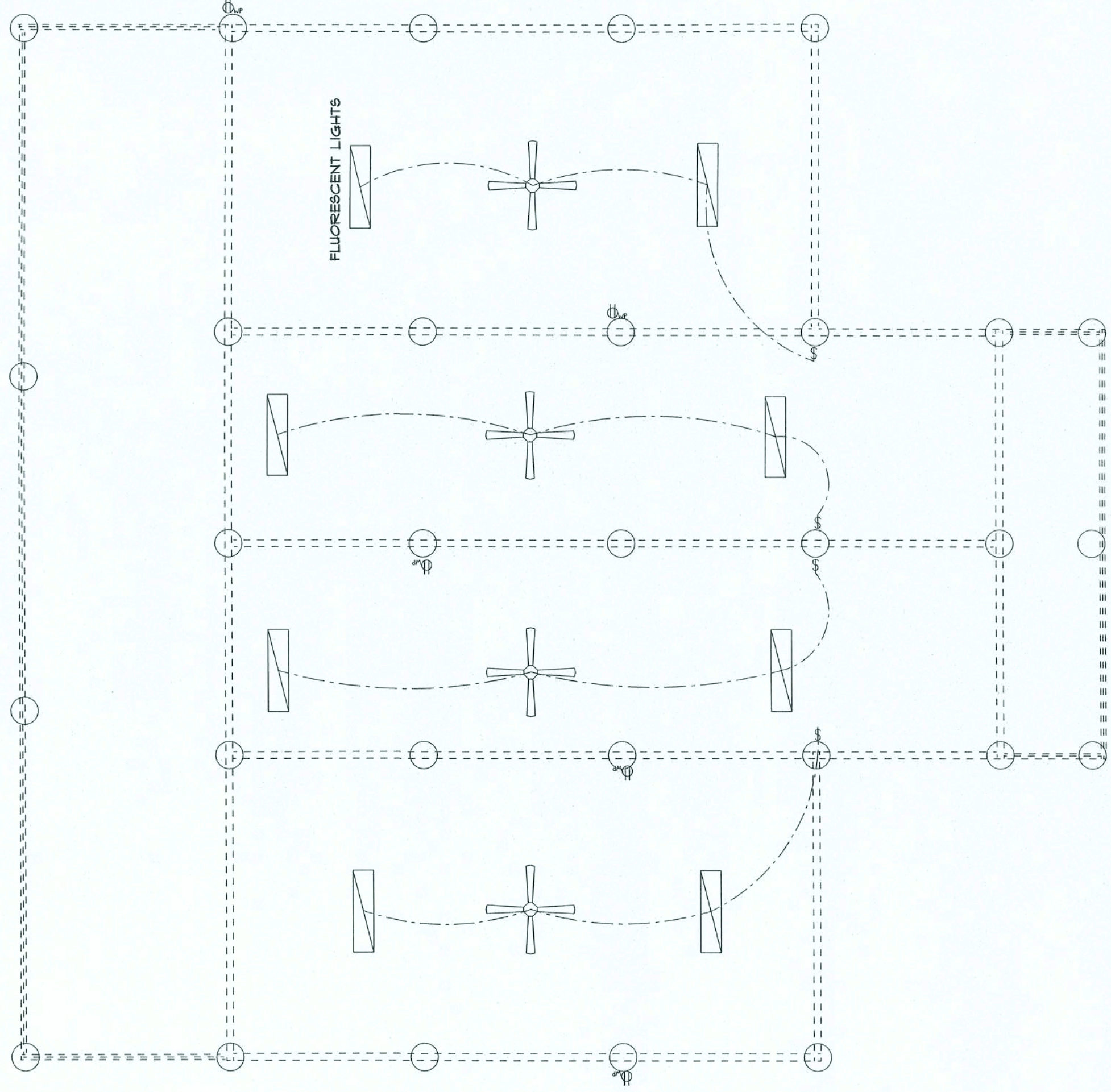
NOTE:  
STAIRS AND LANDINGS ARE  
FOR ILLUSTRATION AND  
APPROXIMATE LOCATION  
FINAL DESIGN AS PER OWNER  
STAIRS ARE TO BE DESIGNED  
AND BUILT PER REQUIRED CODES



ELECTRICAL	SYMBOL
ceiling fan	
exterior light	
spotlight coude	
electrical meter	
electrical panel	
A/C DISCONNECT	
ACU	
DISPOSAL	
EXHAUST FAN	
RECESSED LIGHT	
UL	
cable tv outlet	
light	
outlet	
outlet 220v	
outlet gfi	
outlet wp	
pull chain light	
smoke detector	
switch	
switch 3 way	
telephone/internet	
venty bar light 01	



## ELECTRICAL PLAN



## LOWER LEVEL ELECTRICAL PLAN

3/16" SCALE

McCALL RESIDENCE

SCALE 1/4" = 1'  
DRAWN BY P.A.C.  
APPROVED

COLACINO  
DRAFTING\*DESIGN  
PH. 352-472-3462

DATE 9/8/16  
REVISED  
REVISED

5







DESIGN CRITERIA AND LOADS

Building Code Florida Building and Residential Codes, 5 <sup>th</sup> Edition (2014) Code for Design Loads ANSI/ASCE 7-10	
ROOF LOADING <sup>1</sup> .....	C <sub>s</sub> = 1.25
TOP CHORD LIVE LOAD.....	20 PSF
TOP CHORD DEAD LOAD.....	7 PSF
BOTTOM CHORD LIVE LOAD.....	
ATTICS WITH LIMITED STORAGE.....	20 PSF (PER FRC)
ATTICS WITHOUT STORAGE.....	(NON-CONCURRENT)
BOTTOM CHORD DEAD LOAD.....	5 PSF
WIND LOADING.....	
ASCE 7-10, 35 GUST.....	C <sub>s</sub> = 1.80
BASIC WIND SPEED.....	120 MPH
EXPOSURE CATEGORY.....	B
BUILDING CATEGORY.....	I
ENCLOSURE CLASSIFICATION.....	ENCLOSED
INTERNAL PRESSURE COEFF.....	0.18
C&C DESIGN PRESSURES.....	(SEE TABLE 1)
FLOOR LOADING.....	
C <sub>s</sub> = 1.00	
TOP CHORD LIVE LOAD.....	40 PSF
TOP CHORD DEAD LOAD.....	10 PSF
BOTTOM CHORD LIVE LOAD.....	0 PSF
BOTTOM CHORD DEAD LOAD.....	5 PSF
SPECIAL FLOOR (GAME ROOM) LOADING.....	
C <sub>s</sub> = 1.00	
TOP CHORD LIVE LOAD.....	60 PSF
TOP CHORD DEAD LOAD.....	10 PSF
BOTTOM CHORD LIVE LOAD.....	0 PSF
BOTTOM CHORD DEAD LOAD.....	5 PSF
MAXIMUM FLOOR TRUSS SPACING.....	16' 0" O.C.
DEFLECTION CRITERIA	
ROOF TRUSSES.....	LL / 240
	TL / 180
	TL MAX 1" UP TO 40' SPAN
OPEN WEB FLOOR TRUSSES/BEAMS.....	
	LL / 360
	TL / 240
	TL MAX 3/4"
WOOD I JOISTS.....	
	LL / 480
	TL / 240
	TL MAX 1/2"

NOTES:

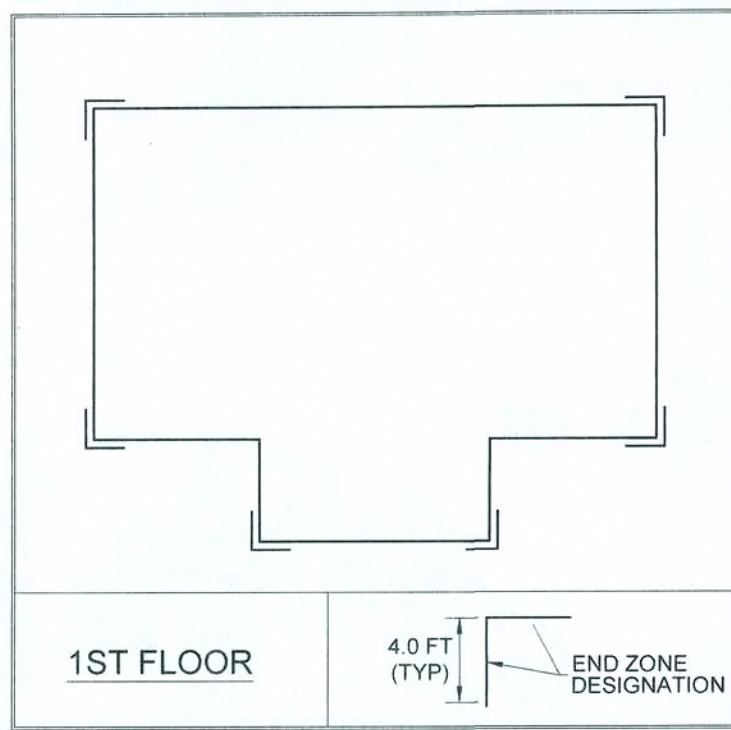
1. CONCURRENTLY LOADED LIVE LOAD MAY BE REDUCED PER FBC 1605.3.1.1.

TABLE 1: COMPONENT AND CLADDING DESIGN PRESSURES

WINDOWS AND DOORS		
EFFECTIVE WIND AREA	ZONE DESIGNATION	
	I2 - Interior Zone (psf)	E2 - End Zone (psf)
0 - 20 ft <sup>2</sup>	+18.24 -19.79	+18.24 -24.42
21 - 50 ft <sup>2</sup>	+17.36 -18.91	+17.36 -22.67
51 - 100 ft <sup>2</sup>	+16.31 -17.86	+16.31 -20.56
101 - 200 ft <sup>2</sup>	+15.50 -17.05	+15.50 -18.94
VINYL SOFFIT MAX PRESSURE (psf)		
	+17.4	-23.2
GARAGE DOOR PRESSURE SEE FRAMING PLAN		

END ZONE KEY MAP

END ZONE: END ZONES SHALL BE TAKEN AS THE 1ST 4' 0" PER IRC FIGURE R301.2 (7)



THIS WOOD FRAMED SINGLE FAMILY RESIDENTIAL STRUCTURE IS LOCATED WITHIN A FEMA ZONE FLOOD ZONE AS INDICATED BY THE FEMA FIRM MAP INFORMATION GIVEN BELOW:  
FLOOD ZONE: AE  
MAP NUMBER: 10223C0458C  
EFFECTIVE DATE: 02/04/2009  
A SHALLOW FOUNDATION WILL BE CONSTRUCTED PER FOUNDATION SECTIONS INCLUDED IN THIS PLAN SET. AND ALL FRC 2014 R322 REQUIREMENTS WILL BE SATISFIED, SUCH THAT THE FINISHED FLOOR ELEVATION AND ALL MECHANICAL EQUIPMENT PADS ARE LOCATED ABOVE THE BASE FLOOD ELEVATION AS VERIFIED BY SURVEYOR'S FINISHED FLOOR ELEVATION SURVEY CERTIFICATE.

TABLE 2: WOOD STRUCTURAL PANEL SHEATHING REQUIREMENTS

NOTES 3, 4

TYPICAL EXTERIOR WALL SHEATHING	STUCCO AND DIRECTLY ADHERED SHEATHING (NOTE 6)	MIN 1/32" 32/16 SPAN RATED OSB OR PLYWOOD INSTALLED VERTICALLY OR (7/16" 24/16 INSTALLED HORIZONTALLY) W/ 8d COMMON 6" O.C. AT PANEL EDGES, 12" O.C. IN THE FIELD. 2x4 BLOCKING IS RECOMMENDED AT UNSUPPORTED PANEL EDGES.
	ALL OTHER VENEER (NOTE 8)	MIN 7/16" 24/16 SPAN RATED OSB OR PLYWOOD INSTALLED VERTICAL OR HORIZONTAL W/ 8d COMMON 6" O.C. EDGES AND FIELD (UNBLOCKED HORIZONTAL PANEL EDGES); 6" O.C. AT PANEL EDGES, 12" O.C. IN FIELD (BLOCKED HORIZONTAL PANEL EDGES)
ROOF DECK OSB (NOTES 1,2)	TILE ROOF (NOTE 7)	MIN 1/32" 32/16 SPAN RATED PLYWOOD INSTALLED WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS W/ 8d RING SHANK NAILS: 4" O.C. AT PANEL EDGES AND 6" O.C. IN THE FIELD.
	SHINGLE AND METAL ROOF (NOTE 9)	MIN 1/32" 32/16 SPAN RATED OSB OR PLYWOOD INSTALLED WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS W/ 8d RING SHANK NAILS: 6" O.C. AT PANEL EDGES, 12" O.C. IN THE FIELD.
FLOOR DECK SHEATHING: (NOTE 5)		2 3/8" T&G OSB OR PLYWOOD W/ 10d COMMON 6" O.C. AT PANEL EDGES, 12" O.C. IN THE FIELD.
PORCH CEILING BOARD SHEATHING:		MIN 3/8" OSB OR PLYWOOD OR CDX INSTALLED PERPENDICULAR TO SUPPORTS W/ 8d COMMON 3" O.C. AT PANEL EDGES, 12" O.C. IN THE FIELD.
"SW" DESIGNATED SHEAR WALLS: (NOTE 6)		MIN 7/16" OSB OR PLYWOOD INSTALLED VERTICAL OR HORIZONTAL W/ 8d COMMON 3" O.C. AT PANEL EDGES, 6" O.C. IN THE FIELD (UNBLOCKED HORIZONTAL PANEL EDGES), 12" O.C. IN FIELD (BLOCKED HORIZONTAL PANEL EDGES).

NOTES:

1. FOR SHEATHING THICKNESS GREATER THAN 1/32" CATEGORY (32/16 SPAN RATING), USE 10d RING SHANK NAILS IN LIEU OF 8d RING SHANK NAILS. (0'148" x 3" LONG)
2. COMMON NAILS IN WALL SHEATHING MAY BE SUBSTITUTED W/ 8d GALVANIZED BOX NAILS.
3. ZIP WALL SHEATHING IS AN ACCEPTABLE ALTERNATE FOR APA RATED WOOD STRUCTURAL PANEL.
4. ALL WOOD STRUCTURAL PANEL SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATION AND SUPPLEMENTS OF CURRENT APPROVED APA MANF. SPECIFICATIONS.
5. FLOOR FASTENERS ARE MINIMUM REQUIRED FOR DIAPHRAGM DESIGN. FOR INCREASED FLOOR PERFORMANCE AND TO HELP REDUCE SQUEAKING, 8d RING SHANK NAILS OR 8d SCREW NAILS ARE RECOMMENDED.
6. 1/32" 32/16 SPAN RATED OSB OR PLYWOOD WITH BLOCKED PANEL EDGES IS AN APA RECOMMENDATION PER APA TECHNICAL BULLETIN Q370 WHEN STUCCO LATH IS ATTACHED DIRECTLY TO OSB OR PLYWOOD. SHOULD BUILDER SPECIFICATIONS ALLOW, MIN STRUCTURAL REQUIREMENTS ARE 7/16" 24/16 SPAN RATING INSTALLED HORIZONTALLY OR VERTICALLY PER FLEXIBLE VENEER WALL SPECIFICATIONS. INCLUDES FULL AND PARTIAL HEIGHT SHEAR WALLS WITH MIN 1" LENGTH.
7. 1/32" PLYWOOD IS A WARRANTY LIMITATION COMMON TO TILE MANUFACTURER'S MINIMUM RECOMMENDATIONS. SHOULD WARRANTY AND INSTALLATION REQUIREMENTS ALLOW, 1/32" APA RATED OSB OR EQUAL MAY BE USED TO SUPPORT TILE ROOF.
8. WOOD STRUCTURAL PANEL MAY BE INSTALLED VERTICALLY OR HORIZONTALLY W/ UNBLOCKED HORIZONTAL PANEL EDGES. WOOD BLOCKING IS REQUIRED FOR SHEAR WALLS LESS THAN 1" IN LENGTH.
9. MINIMUM STRUCTURAL ROOF SHEATHING REQUIREMENTS FOR METAL ROOF CLADDING IS SAME AS SHINGLE ROOF. SHOULD ROOF MANUFACTURER'S INSTALLATION DRAWINGS REQUIRE SPECIFIC ROOF SHEATHING EXCEEDING THE STRUCTURAL MINIMUM, CONTRACTOR SHALL PROVIDE ROOF SHEATHING IN ACCORDANCE WITH ROOFING SPECIFICATIONS.

TABLE 3: MAXIMUM EXTERIOR WALL STUD SPACING (IN O.C.)

NOTES 1, 2, 3

BEARING CONDITION & STUD TYPE		STUCCO FINISH-L/360 WALL HEIGHT					FLEXIBLE FINISH-L/120 WALL HEIGHT				
		8 FT	9 FT	10 FT	11 FT	12 FT	8 FT	9 FT	10 FT	11 FT	12 FT
ROOF ONLY	2x4 SPF STUD	16	16	12	--	--	16	16	16*	12	--
	2x4 NO 2 SPF	16	16	16*	--	--	16	16	16	16	12
	(2)x4 NO 2 SPF	16	16	16	16	16	16	16	16	16	16
	2x6 SPF STUD	16	16	16	16	16	16	16	16	16	16
	2x6 NO 2 SPF	16	16	16	16	16	16	16	16	16	16
ROOF AND FLOOR	2x4 SPF STUD	16	12	--	--	--	16	12	--	--	--
	2x4 NO 2 SPF	16	16	16*	--	--	16	16	16	12	--
	(2)x4 NO 2 SPF	16	16	16	16	16	16	16	16	16	16
	2x6 SPF STUD	16	16	16	16	16	16	16	16	16	16
	2x6 NO 2 SPF	16	16	16	16	16	16	16	16	16	16

NOTES:

1. STUD SPACINGS ABOVE ARE THE MAXIMUM REQUIRED ACCORDING TO STUD HEIGHT AND TYPE, UNLESS NOTED OTHERWISE ON PLAN.
2. IF STUD SPACING IS NOT LISTED, STUD SIZE AND GRADE IS NOT APPLICABLE AT THAT WALL HEIGHT.
3. (\*) STUD SPACING IN TABLE DESIGNATED WITH ASTERISK REQUIRES ALL NON-CORNER STUDS LOCATED IN WALL END ZONES TO BE DOUBLED. FASTEN STUDS PER FRAMING NOTE #5. SEE END ZONE KEYMAP LOCATOR BELOW TABLE 1 FOR 4' END ZONE LOCATIONS.

TABLE 4: NAIL SIZE LEGEND

NOTES 1, 2, 3, 4

	DIAMETER	LENGTH
8d COMMON	0.131"	2-1/2"
8d RINGSHANK	0.113"	2-3/4"
10d x 1-1/2"	0.148"	1-1/2"
10d	0.131"	3"
10d COMMON	0.148"	3"
12d COMMON	0.148"	3-1/4"
16d SINKER	0.148"	3-1/4"
16d COMMON	0.162"	3-1/2"

NOTES:

1. INSTALL 10d NAILS UNLESS OTHERWISE SPECIFIED.
2. COMMON WIRE NAILS AND THREADED HARDENED STEEL NAILS SHALL CONFORM TO THE NOMINAL SIZES SPECIFIED IN ASTM F1667. NOMINAL DIAMETER SIZES APPLY TO FASTENERS BEFORE APPLICATION OF PROTECTIVE COATING.
3. WHEN A BORED HOLE IS REQUIRED TO PREVENT SPLITTING OF A WOOD DUE TO FASTENER PENETRATION, THE BORED HOLE SHALL NOT EXCEED 75% OF THE NAIL OR SPIKE DIAMETER.
4. THE NOMINAL DIAMETER AND LENGTH OF TYPICAL FASTENERS SPECIFIED FOR THIS PROJECT ARE AS LISTED IN TABLE 4.
- CONCRETE AND FOUNDATION NOTES
1. CONCRETE COMPRESSIVE STRENGTH FOR FOOTINGS= 2,500 PSI AT 28 DAYS (UNO).
2. CONCRETE COMPRESSIVE STRENGTH FOR SLAB = 2,500 PSI AT 28 DAYS (UNO).
3. ALL REINFORCING STEEL #3 AND BIGGER SHALL BE ASTM A615 GRADE 40 DEFORMED BARS (UNO).
4. ALL REINFORCING STEEL SHALL HAVE 90 DEGREE BEND AT CORNERS WITH A 24" LAP. 24" LONG #4 BAR IS RECOMMENDED TO BE INSTALLED AT ALL REINTRANT CORNERS.
5. FIBERMESH IS AN ACCEPTABLE ALTERNATIVE AND SHALL NOT REQUIRE WWF. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL RANGE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY THE BUILDING OFFICIAL.
6. MASONRY STEMMWALL AND MONOLITHIC FOOTINGS ARE INTERCHANGEABLE.
7. EARTH AND EARTH FILL FILLING SHALL BE ASSURED TO HAVE A MINIMUM BEARING CAPACITY OF 2,000 psf IN ACCORDANCE WITH FRC 5TH EDITION (2014) TABLE R401.4.1, AND SHALL BE FREE OF ORGANIC MATERIAL AND COHESIVE SOILS. COMPACT THE FILL IN 12" LIFTS TO AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. IT IS THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE ASSUMPTIONS.
8. CONCRETE FLOOR SLABS ON GRADE SHALL BE INSTALLED OVER A MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" AND SEALED OVER CLEAN, COMPACTED EARTH OR FILL WITH APPROVED CHEMICAL SOIL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES.
9. STEMMWALLS OVER 4 COURSES TALL REQUIRE SPECIAL ATTENTION TO BRACINGS DURING CONSTRUCTION. CONTACT ENGINEER OF RECORD IF THIS CONDITION EXISTS.
10. TO CONTROL CRACKING, CUT 1" SAWCUTS IN THE SLAB IN A 15x15" GRID WITHIN 12 HOURS OF CONCRETE PLACEMENT. CONTACT EOR FOR ALTERNATIVE METHODS. CONTROL JOINTS ARE NOT REQUIRED WHEN WWF OR FIBERMESH ARE INCLUDED WITH CONCRETE WORK.
11. DO NOT SCALE FOOTING DIMENSIONS AND LOCATIONS FROM THE FOUNDATION PLAN. DO NOT DETERMINE FOOTING LOCATION FROM ARCHITECTURAL PLANS OR FRAMING PLAN. IF FOOTING SIZE OR LOCATION IS NOT DETERMINATE FROM USE OF FOUNDATION PLAN ALONE, CONTACT THE ENGINEER OF RECORD.

PRE-ENGINEERED TRUSSES & I-JOISTS

1. ROOF OR FLOOR TRUSSES FABRICATED TO ACHIEVE THE ROOF PLANES DEPICTED ON THE ARCHITECT'URAL PLANS SHALL BE DESIGNED UNDER THE SUPERVISION OF A REGISTERED FLORIDA PROFESSIONAL ENGINEER. ENGINEERING SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ANSI/PTP-2002 AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. DESIGN CRITERIA IS LOCATED ON SHEET ST-1 OF THE PLAN SET. TEMPORARY BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LEFT IN PLACE AFTER CONSTRUCTION IS COMPLETE.
2. TRUSSES OR I-JOISTS SHALL BE DESIGNED TO MATCH THE ORIENTATION, SPAN DIRECTION, SPACING, BEARING LOCATION AND NAMING CONVENTION OF THE LAYOUT SHOWN HERE.
3. THE TRUSS ENGINEER SHALL PROVIDE ALL TRUSS TO TRUSS CONNECTION DESIGN AND SPECIFICATIONS AND SUBMIT THEM UNDER SIGN AND SEAL WITH THE TRUSS SHOP DRAWINGS.
4. TRUSS UPLIFTS HAVE BEEN CALCULATED BY THE ENGINEER OF RECORD AND TAKEN INTO CONSIDERATION DURING THE DESIGN OF THE UPLIFT RESTRAINT SYSTEM FOR THIS STRUCTURE. AS SUCH, THE REPORTED UPLIFTS ON THE TRUSS SHOP DRAWINGS MAY BE DISREGARDED.
5. CONNECT ALL TRUSSES TO TOP PLATE AS SPECIFIED ON THE TYPICAL WALL SECTION SHEET.
6. I-JOISTS FABRICATED TO ACHIEVE THE FLOOR PLANS DEPICTED ON THE ARCHITECTURAL PLANS SHALL BE DESIGNED AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION. SEE DESIGN CRITERIA, THIS SHEET.

TABLE 7: METAL CONNECTOR SCHEDULE

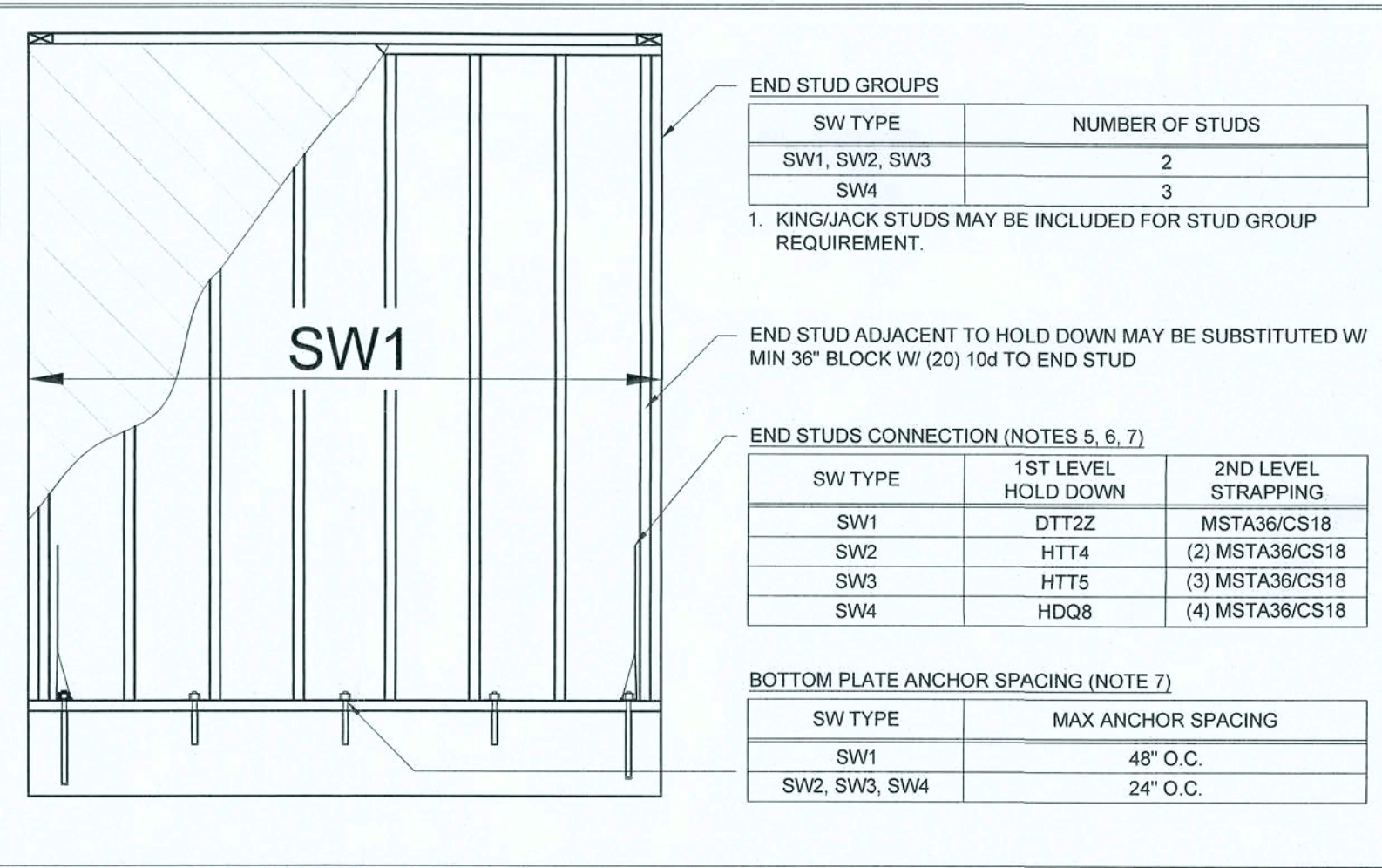
USP & SIMPSON CONNECTORS IN CORRESPONDING ROWS BELOW ARE EQUAL ALTERNATIVES AND MAY BE CONSIDERED INTERCHANGEABLE							
SIMPSON	SIMPSON FASTENERS	USP	USP FASTENERS	SIMPSON	SIMPSON FASTENERS	USP	USP FASTENERS
DTT2 <sup>1,2</sup>	(8) 1/2" x 1 1/2" SDS SCREWS IN STUD 1/2" Ø x 4 1/2" EMBED EPOXY OR SCREW ANCHOR	DTB-TZ	(8) 1/2" x 1 1/2" WS15-GC WOOD SCREWS IN STUD 1/2" Ø x 4 1/2" EMBED EPOXY OR SCREW ANCHOR	CS18	(9) 10d COMMON EACH END OF STRAP	CS20	(9) 10d COMMON EACH END OF STRAP
HTT4 <sup>1,2,3</sup>	(18) 0.162" x 2 1/2" IN STUD/BEAM/TRUSS 5/8" Ø x 6" EMBED ANCHOR IN CONCRETE	HTT4S <sup>1,2,3</sup>	(18) 0.162" x 2 1/2" IN STUD/BEAM/TRUSS 5/8" Ø x 6" EMBED ANCHOR IN CONCRETE	MTS12	(7) 10d x 1 1/2" EACH END	MTW12	(7) 10d x 1 1/2" EACH END
HTTS <sup>1,2,3</sup>	(26) 0.162" x 2 1/2" IN STUD/BEAM/TRUSS 5/8" Ø x 6" EMBED ANCHOR IN CONCRETE	HTT4S <sup>1,2,3</sup>	(26) 0.162" x 2 1/2" IN STUD/BEAM/TRUSS 5/8" Ø x 6" EMBED ANCHOR IN CONCRETE	MSTA24	(9) 10d COMMON EACH END	MSTA24	(9) 10d COMMON EACH END
HD08-SDS <sup>1</sup>	(20) 1/2" x 3" SDS SCREWS IN STUD GROUP 3/4" Ø x 12" EMBED ANCHOR IN CONCRETE	PHD8	(24) 3" WS IN STUD GROUP 3/4" Ø x 12" EMBED ANCHOR IN CONCRETE	MSTA36	(13) 10d COMMON EACH END	MSTA36	(13) 10d COMMON EACH END
STDH14	(38) 16d SINKERS INTO STUDS WET EMBED IN CONCRETE	STAD14	(38) 16d SINKERS INTO STUDS WET EMBED IN CONCRETE	HTS20	(11) 10d x 1 1/2" IN TRUSS/RAFTER (11) 10d x 1 1/2" IN STUD	HTW20	(11) 10d x 1 1/2" IN TRUSS (11) 10d x 1 1/2" IN STUD
LTT20B <sup>2</sup>	(10) 10d x 1 1/2" NAILS IN STUD 1/2" Ø x 6" EMBED EPOXY OR SCREW ANCHOR	LTS19 <sup>2</sup>	(10) 16d COMMON NAILS IN STUD 1/2" Ø x 6" EMBED EPOXY OR SCREW ANCHOR	H2.5T/ H4B	(5) 8d x 1 1/2" IN TRUSS (5) 8d x 1 1/2" IN TOP PLATE	RT7/ RT7AT	(5) 8d x 1 1/2" IN TRUSS (5) 8d x 1 1/2" IN TOP PLATE
ABU44	(12) 16d COMMON NAILS 1/2" Ø x 7" EMBED EPOXY	PAU44 <sup>1</sup>	(12) 16d COMMON NAILS 1/2" Ø x 7" EMBED EPOXY	H8	(5) 10d x 1 1/2" IN TRUSS (5) 10d x 1 1/2" IN TOP PLATE	RT8A	(5) 10d x 1 1/2" IN TRUSS (5) 10d x 1 1/2" IN TOP PLATE
ABU66	(12) 16d COMMON NAILS 1/2" Ø x 7" EMBED EPOXY (12" EMBED AT GARAGE DOOR RETURNS)	PAU66 <sup>1</sup>	(12) 16d COMMON NAILS 1/2" Ø x 7" EMBED EPOXY (12" EMBED AT GARAGE DOOR RETURNS)	TSP	(6) 10d x 1 1/2" IN STUD	LFTA6	(8) 8d x 1 1/2" IN PLATE
HU48, HUC48, HUC28-2	(14) 16d COMMON IN HEADER (6) 10d COMMON IN BEAM	HD48, HD48-2, HD28-2IF	(14) 16d COMMON IN HEADER (6) 10d COMMON IN BEAM	DSP	(6) 10d COMMON IN TOP PLATE (6) 10d COMMON IN STUD/HEADER	RSPT6-2	(6) 10d x 1 1/2" IN TOP PLATE (8) 10d x 1 1/2" STUD/HEADER
HU410, HUC410, HD210-2, HUC210-2	(18) 16d COMMON IN HEADER (10) 10d COMMON IN BEAM	HD410, HD410-2, HD210-2IF	(18) 16d COMMON IN HEADER (10) 10d COMMON IN BEAM	LG73	(26) 16d SINKER IN WALL FRAMING (12) SDS 1/2" x 2 1/2" IN TRUSS	LGUT3	(28) 16d SINKER IN WALL FRAMING (12) WS25 1/4" x 2 1/2" IN TRUSS
HGA10KT	(4) 1/2" x 1 1/2" SDS SCREWS IN TRUSS/RAFTER (4) 1/2" x 3" SDS SCREWS IN TOP PLATE	HGA10	(4) 1/2" x 1 1/2" WS15 SCREWS IN TRUSS/RAFTER (4) 1/2" x 3" WS3 SCREWS IN TOP PLATE	SDWC14500, SDWC15600			NO USP EQUIVALENT
TITEN HD	DIA. & EMBED SPECIFIED ON PLAN	WEDGE BOLT+	DIA. & EMBED SPECIFIED ON PLAN				

NOTES:

1. EPOXY ANCHOR EMBED FOR HOLD-DOWN CONNECTORS ANCHORED IN CMU TO BE 12-INCHES. OPTIONAL SIMPSON 1/2"x12" TITEN HD OR USP WEDGE BOLT+ IS AN ACCEPTABLE ALTERNATIVE ANCHOR INTO TOP OF MASONRY STEMMWALL IN ALL CASES EXCEPT GARAGE RETURN HOLDDOWNS.
2. REFER TO FRAMING NOTES THIS SHEET FOR ACTION SPEC INSTALLATION SPECIFICATIONS.
3. PRODUCTS SELECTED USING SIMPSON 2015-2016 CATALOG AND USP PRODUCT CATALOG 57TH EDITION. PRODUCTS MAY BE SUBSTITUTED WITH EQUAL OR BETTER APPROVED ALTERNATES. REFER TO RESPECTIVE CATALOG FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
4. IF CONNECTOR IS NOT LISTED ABOVE, CONTACT EOR FOR SPECIFIC FASTENING REQUIREMENTS.
5. POSITIVE PLACEMENT GUIN WALLS 2 1/2" LONG WITH EQUIVALENT DIAMETER TO COMMON NAILS SPECIFIED ABOVE MAY BE USED FOR ABU POST BASE ANCHORS, CS18, AND MSTA FLAT STRAPS.

TABLE 8: SPECIFIED SW WALLS

NOTES 1, 2, 3, 4



NOTES:

1. THE EXTERIOR WALLS ARE FULLY SHEATHED WITH OSB OR PLYWOOD. ALL TYPICAL EXTERIOR WALLS ARE SHEAR WALLS AND ARE PART OF THE BUILDING'S MAIN WIND FORCE RESISTING SYSTEM. ADDITIONAL FRAMING AND HOLD-DOWNS ARE REQUIRED ONLY AS NOTED ON THE PLAN OR IF WALL SEGMENT IS IDENTIFIED AS SW1, SW2, SW3, SW4, OR SWB ON THE PLAN.
2. ALL SW SHEAR WALL SHEATHINGS TO BE FASTENED TO FRAMING PER TABLE 2: WOOD STRUCTURAL PANEL SHEATHING REQUIREMENTS.
3. SW SHEAR WALLS INDICATED ON PLAN WITH WINDOW AND DOOR OPENINGS WITHIN THE SHEARWALL REQUIRE STUD GROUP AND HOLD DOWNS ONLY AT EXTREME END OF DESIGNATED WALL OR PORTION THEREOF AS NOTED ON STRUCTURAL PLAN.
4. SWB - SEE "SPECIAL SHEAR WALL DETAIL" LOCATED ON THE DETAIL SHEET.
5. 2ND LEVEL "SW" SHEAR WALLS - END STUDS OF SW WALL TO BE ANCHORED PER ONE OF THE FOLLOWING:
- HOLD DOWN WITH FULL-HEIGHT 3/4" DIA. ROD TO SLAB. END STUDS TO BE CONTINUOUSLY SUPPORTED THROUGH FLOOR SYSTEM TO SLAB.
  - 2ND LEVEL END STUDS TO MATCHING 1ST LEVEL STUD GROUP BELOW W/ STRAPPING AS NOTED. 1ST LEVEL STUD GROUP TO SLAB WITH HOLD DOWN.
6. DESIGNATED "SW" SHEARWALLS WITH A COMMON CORNER REQUIRE (1) HOLDDOWN, WHICH IS TO BE LARGEST OF THE TWO HOLDDOWNS SPECIFIED, UNO.
7. SEE WALL SECTION SHEET FOR RECOMMENDED BOTTOM PLATE ANCHOR OPTIONS. SEE TABLE 7 FOR HOLD-DOWN ANCHOR REQUIREMENTS.

FRAMING NOTES

1. SIMPSON ACRYLIC THE ADHESIVE OR EQUAL SHALL BE USED IN ALL DRILLED AND EPOXYED ANCHOR APPLICATIONS. ANCHOR BOLT, THREADED ROD, OR DOVEILED REINFORCING STEEL MAY BE EMBEDDED TO THE SPECIFIED DEPTH, IN A HOLE AS SPECIFIED BY MANF. (TYPICALLY 1/4" TO 1/2" GREATER THAN SPECIFIED ANCHOR DIAMETER). ADHESIVE/EPOXY MUST FILL THE HOLE IN THE CONCRETE AND WOOD BOTTOM PLATE.
2. MANUFACTURER'S SPECIFICATIONS MUST BE FOLLOWED FOR PROPER INSTALLATION.
3. FASTEN ALL STUDS TO BOTTOM AND TOP PLATES WITH (4)8d TOE NAILS OR (2)16d COMMON END NAILS.
4. FASTEN ALL TRUSSES AND RAFTERS TO TOP PLATES WITH (3)8d TOE NAILS.
5. ALL MULTI-PLY TRUSS GIRDS AND BEAMS TO HAVE SOLID STUD GROUP BELOW MATCHING GIRDER OR BEAM THICKNESS AND MATCHING WALL STUD SPECIFICATIONS AS NOTED ON STRUCTURAL PLAN, UNO.

SHEET INDEX

ST-1.....	STRUCTURAL SPECIFICATIONS
ST-2.....	FOUNDATION PLAN
ST-3.....	1ST LEVEL STRUCTURAL FRAMING PLAN
ST-3A.....	1ST LEVEL ROOF FRAMING PLAN
ST-4.....	2ND LEVEL STRUCTURAL FRAMING PLAN (IF APPLICABLE)
ST-4A.....	2ND LEVEL ROOF FRAMING PLAN (IF APPLICABLE)
ST-5.....	TYPICAL WALL SECTION SHEET
ST-6.....	SECTIONS AND DETAILS
ST-7.....	SECTIONS AND DETAILS (IF APPLICABLE)

LEGEND

OR	"OR" SHALL MEAN THAT EITHER OPTION PROVIDED IS AN EQUAL ALTERNATIVE FOR THE APPLICATION SHOWN UNLESS NOTED OTHERWISE ON PLAN OR DETAIL.
UNO	ENGINEER OF RECORD
EOR	EACH WAY
EW	ORIENTED STRAND BOARD
WSP	WOOD STRUCTURAL PANEL
SYF	SOUTHERN YELLOW PINE
SPF	SPRUCE-PINE-FIR
CONT	CONTINUOUS
O.C.	ON CENTER
LSL	1.55E TIMBERSTRAND LVL ENGINEERED LUMBER, 1 3/4" WIDE, UNO. 12" WIDE LVL BEAMS ARE EQUIVALENT TO 2-PLY 1 3/4" BEAM)
LVL	2.0E MICROLAM LVL ENGINEERED LUMBER, 1 3/4" WIDE
PSL	2.0E PARRALLAM PSL ENGINEERED LUMBER, 3 1/2" WIDE, UNO.
SYS 42	PROPERLY RATED OPEN WEB HEADER

INTERIOR ROOF LOAD BEARING WALL. SPECIFICATIONS OUTLINED ON TYPICAL WALL SECTIONS, DETAIL SHEETS

INTERIOR BEARING WALL WITH NO UPLIFT. NO UPLIFT ANCHORS REQUIRED. MINIMUM BOTTOM PLATE ANCHORAGE IS 1/2" ANCHOR @ 8'-0" O.C. (UNO ON FRAMING PLAN OR SW SPECIFICATIONS)

STRUCTURAL WOOD BEAM

FOUNDATION KEYNOTE CALLOUT

STUD COLUMN KEYNOTE CALLOUT

NUMBER OF SDWC15600 CONNECTING TOP PLATE TO STUDS

NUMBER OF STUDS BELOW BEAM/GIRDER TRUSS. STUDS TO MATCH WALL FRAMING SIZE AND GRADE. UNO.

ADDITIONAL CLARITY FOR THE LOCATION OF THE STUD COLUMN

BOTTOM OF STUD COLUMN CONNECTION

- 1ST LEVEL STUD COLUMN: HOLDDOWN REQUIRED AT BASE OF COLUMN
- 2ND LEVEL STUD COLUMN: STRAPPING REQUIRED FROM 2ND LEVEL COLUMN TO 1ST LEVEL STUDS/HEADER/BEAM

"ANCHOR" REQUIRES BOTTOM PLATE ANCHOR WITHIN 3" OF STUD COLUMN

NUMBER OF SDWC15450 CONNECTING STUDS TO BOTTOM PLATE

HEADER STRAPPING KEYNOTE CALLOUT

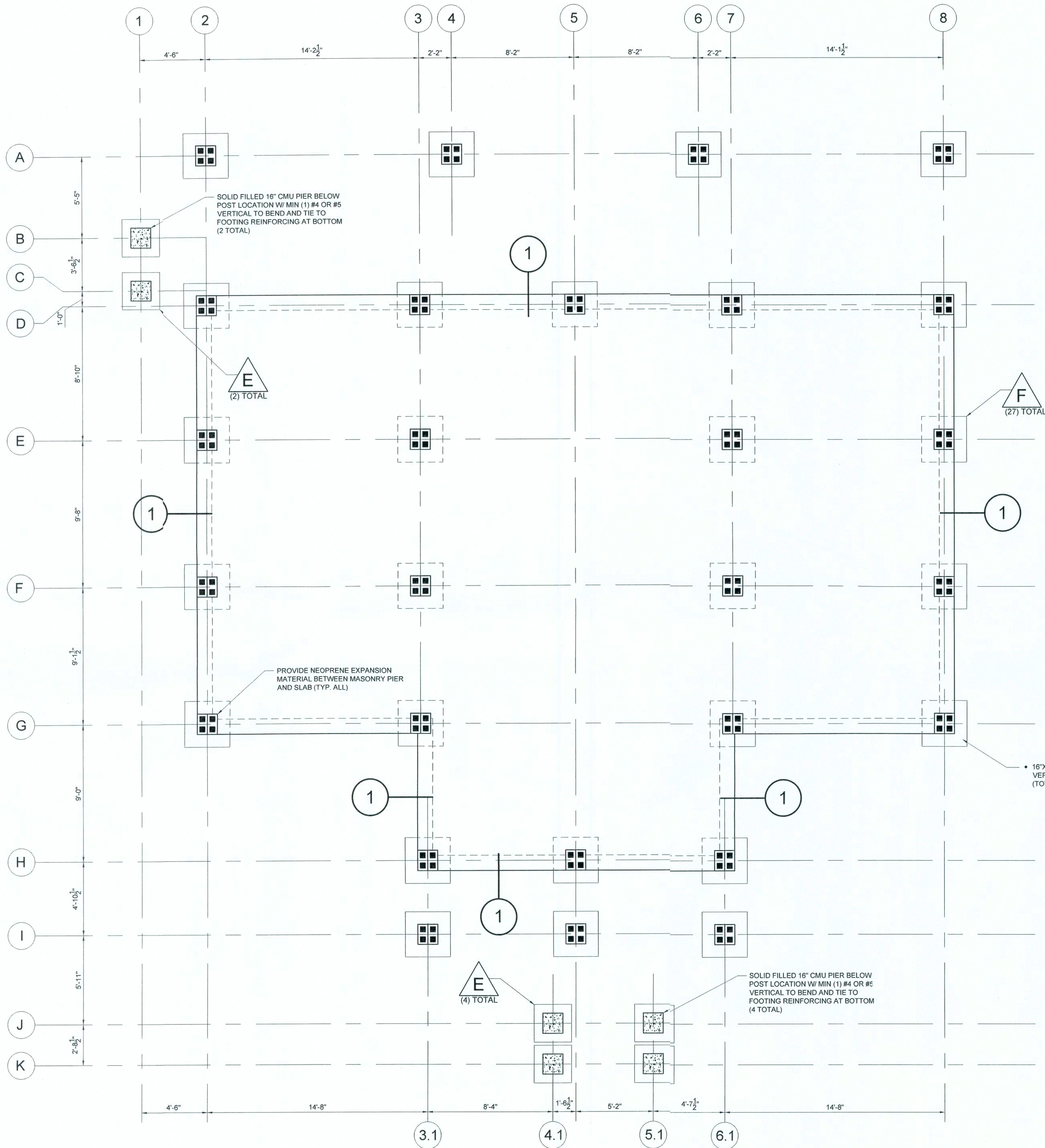
NUMBER OF STRAPS CONNECTING HEADER TO JACK STUD

TYPE OF STRAP CONNECTING HEADER TO JACK STUD

KING/JACK GROUP BOTTOM CONNECTION

- 1ST LEVEL STUD GROUP: HOLDDOWN REQUIRED AT BASE OF STUD GROUP
- 2ND LEVEL STUD COLUMN: STRAPPING REQUIRED FROM 2ND LEVEL STUD GROUP TO





FOUNDATION PLACEMENT PLAN

1/4" = 1' 0"

GENERAL FOUNDATION NOTES:

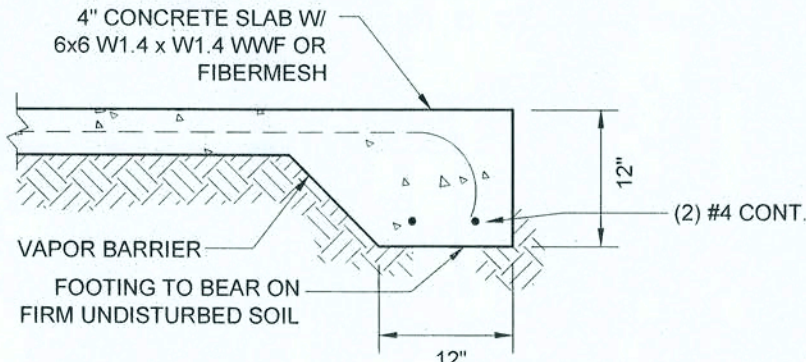
- EARTH AND EARTH FILL SUPPORTING SLABS ON GRADE IS ASSUMED TO HAVE A MINIMUM BEARING CAPACITY OF 2,000 psf IN ACCORDANCE WITH FRC 5TH EDITION (2014) TABLE R401.4.1, AND SHALL BE FREE OF ORGANIC MATERIAL AND COHESIVE SOILS. COMPACT THE FILL IN 12" LIFTS TO AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. IT IS THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE ASSUMPTIONS.
- IF CONTRACTOR OR BUILDING OFFICIAL DETERMINES THAT THE SOIL IS NOT SUITABLE FOR 2,000 PSF BEARING CAPACITY, CONTACT EOR. ADDITIONAL FOUNDATION WORK MAY BE REQUIRED.
- SLIDING GLASS DOOR FRAMES MUST BE RECESSED INTO THE SLAB IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. CONSULT ARCHITECTURAL PLANS FOR LOCATION OF SLIDING GLASS DOORS.
- MASONRY STEMWALL AND MONOLITHIC FOOTINGS ARE INTERCHANGEABLE. SEE DETAIL SHEETS FOR ALTERNATE STEMWALL SECTIONS.
- 24" LONG #4 BAR IS RECOMMENDED TO BE INSTALLED AT ALL RE-ENTRANT CORNERS. SEE "RE-ENTRANT CORNER DETAIL" THIS SHEET.

CONTROL JOINT (CJ) NOTES:

- TIMING**
  - CUTS MUST BE MADE THE SAME DAY AS PLACEMENT, AS SOON AS THE CONCRETE HAS SET ENOUGH TO ALLOW SAWCUTS WITHOUT RAVELING THE COURSE AGGREGATE FROM THE CUT, MAKE THE CUT.
  - CUTS MADE THE NEXT DAY OR AT SUBSEQUENT TIMES DO NOT PROVIDE ADEQUATE PROTECTION AGAINST "RANDOM" CRACKING.
- DEPTH**

THE CUT SHOULD BE AT LEAST 1" DEEP, BUT NOT MORE THAN 1 1/2" DEEP.
- SEALING**

THE CUTS SHOULD BE SEALED WITH A SEMI-RIGID EPOXY OR ACRYLIC ADHESIVE SEALANT. BACKER ROD IS NOT REQUIRED.



1 MONOLITHIC FOOTING SECTION

- IF GROUND ADJACENT TO FTG SLOPES DOWN AND AWAY FROM STRUCTURE STEEPER THAN 1'-0" VERTICALLY PER 3'-0" HORIZONTALLY, CONTRACTOR HAS TWO CHOICES:
- PRIOR TO CONSTRUCTION, SEEK GUIDANCE OF EOR TO PREVENT EROSION OF SOIL.
  - USE STEMWALL FOOTING.

FOUNDATION KEYNOTES:

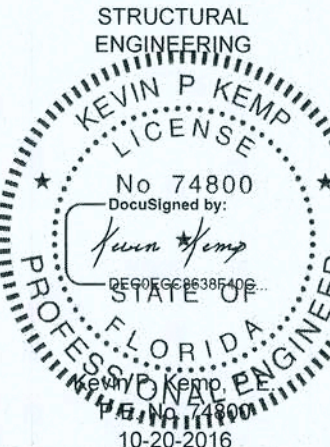
NOTES APPLICABLE ONLY WHERE SPECIFIED ON PLAN

- A** 8"x8" DEEP THICKENED EDGE W/ (1) #4 CONT
- B** 12" DEEP FTG W/ #4 @ 12" EW UNDER BOX COLUMN, FTC TO BE PROJECTED MIN 6" AS SHOWN
- C** 16" SQx12" DEEP FTG W/ (3) #4 EW
- D** 24" SQx20" DEEP FTG W/ (3) #4 EW
- E** 30" SQx20" DEEP FTG W/ (4) #4 EW
- F** 36" SQx20" DEEP FTG W/ (4) #4 EW
- G** 48" SQx24" DEEP FTG W/ (5) #4 EW, T&B

Bryan Zecher Homes

1. THE ENGINEERING DATA AND DETAILS OF THIS PROJECT HAVE BEEN PREPARED BY APEX TECHNOLOGY INC. AND ARE NOT TO BE REPRODUCED IN ANY MANNER, EXCEPT AS APPROVED IN WRITING BY APEX TECHNOLOGY INC. OR ITS SUBSIDIARIES. 2. THE INFORMATION REPRESENTED IN THIS DRAWING IS THE PROPERTY OF APEX TECHNOLOGY INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF APEX TECHNOLOGY INC. 3. THE DIMENSIONS SHOWN ON THIS DRAWING SHALL BE THE GOVERNING DIMENSIONS. IF A DIMENSION IS UNCLEAR OR INCONCLUSIVE, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR CLARIFICATION.

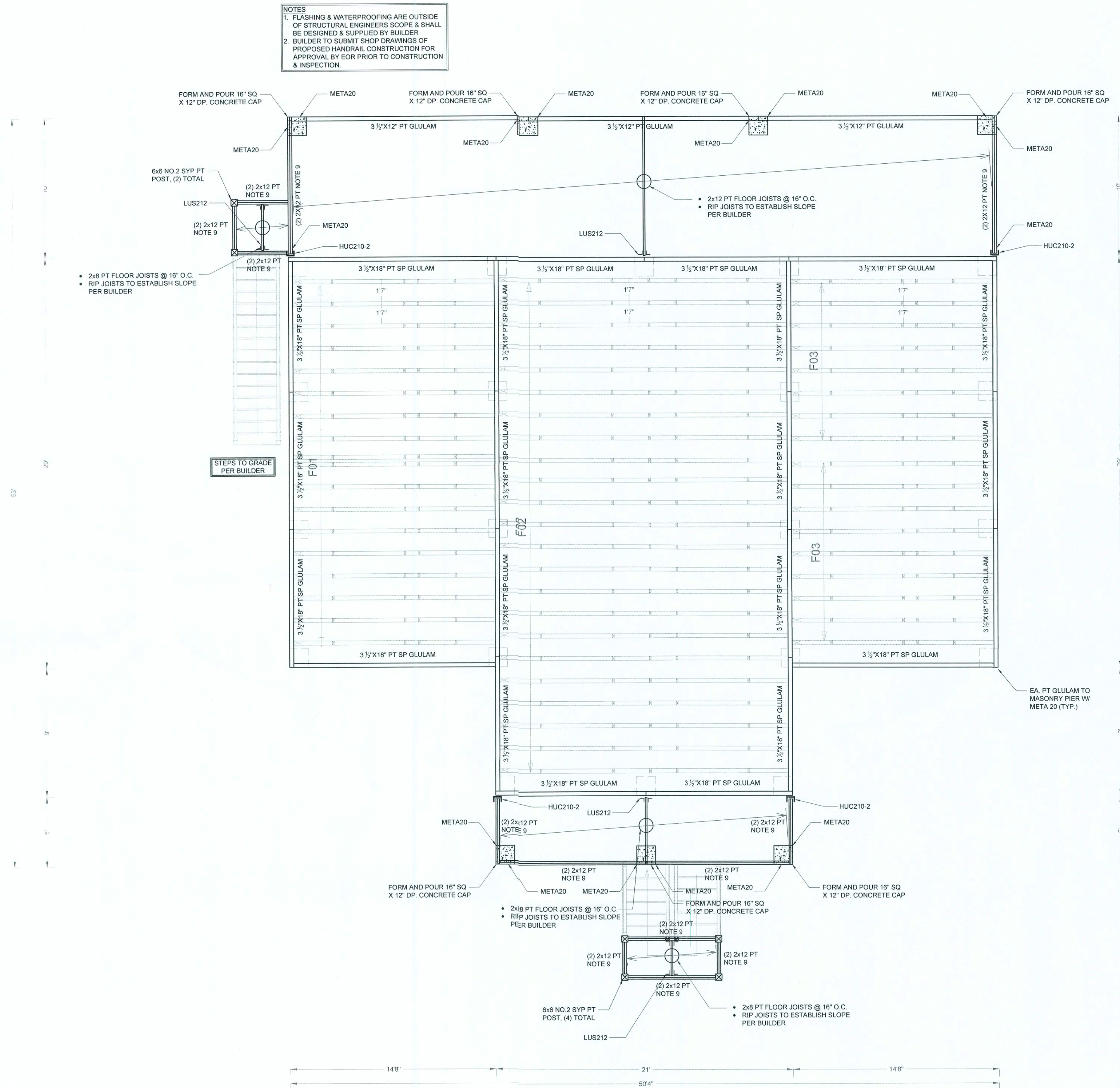
SHEET NO: ST-2	
FOUNDATION PLAN	
JOB NO: AT5612	
SUBDIVISION: 1120 SW Riverside Avenue	
LOT NO: --	
FLOOR PLAN: McCall Residence	
DESIGNED: AEG	
REVIEWED: KPK	
REVISIONS	DATE



METAL CONNECTOR ENGINEERING

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## FIRST LEVEL FLOOR FRAMING PLAN

$$1/4" = 1' 0"$$

FRAMING KEYNOTES  
(METAL CONNECTOR)

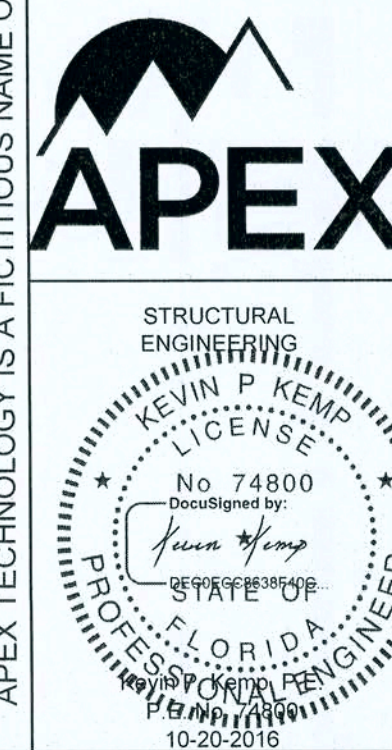
NOTES APPLICABLE ONLY WHERE SPECIFIED ON PLAN

1. MIN (2) INTERMEDIATE JACK STUDS REQUIRED BETWEEN OPENINGS.
2. SEE INTERIOR SHEARWALL DETAIL ON DETAIL SHEET. IN LOCATIONS WHERE INTERIOR SHEARWALLS HAVE VAULTED TOP PLATES, ALSO SEE INTERIOR SHEARWALL AT VAULTED TOP PLATE ON DETAIL SHEET.
3. ATTACH SW TO FLOOR DIAPHRAGM PER ONE OF THE FOLLOWING:
  - A. IF FLOOR TRUSS ALIGNS ABOVE SW, ATTACH FLOOR TRUSS BOTTOM CHORD TO SW DBL TOP PLATE W/ 10d @ 3' O.C.
  - B. FRAME AND SHEATH SW TO FLOOR DECK ABOVE. ATTACH FLOOR DECK TO SW DBL TOP PLATE W/ 10d 3' O.C.
4. **PORCH BEAM FRAMING NOTES**
  - A. **BEAM POCKET PORCH BEAMS AT TOP PLT ELEV**  
NOTCH TOP OF BEAM 3" FOR BEAM PKT CONNECTION AT WALL. TOP OF BEAM ELEVATION EQUALS TOP OF TOP PLATE.
  - B. **SHIM BELOW PORCH BEAMS JUST ABOVE TOP PLT ELEV**  
PORCH BEAM TO TOP PLT W/ MTS12 Q&R MTS24.
  - C. **POST DOWN PORCH BEAMS ABOVE TOP PLT ELEV**  
PROVIDE DOUBLE STUD POST DOWN SUPPORT AT WALL FOR PORCH BEAMS. BEAM TO POST DOWN STUDS W/ HTS20 Q&R MTS24. POST DOWN STUDS TO STUDS BELOW W/ HTS20 Q&R MTS24.
  - D. **BEAM ATTACHED TO EXISTING FRAMING**  
ATTACH PORCH BEAM TO EXISTING STUDS OR KING/JACK STUDS W/ SIMPSON HUC HANGER MATCHING PORCH BEAM DIMENSIONS.
5. SHEATH WALL CONTINUOUS TO SECOND FLOOR TOP PLATE PER TYPICAL WALL SECTION SHEET.
6. HIGH UPLIFT CONNECTION:
  - TOP PLATE TO STUD W/ (1) SDWC15600 @ 16" O.C. Q&R (2) SDWC15600 @ 24" O.C.
  - ALTERNATE 1" METAL FLAT STRAP 2ND LEVEL STUD TO 1ST LEVEL STUD @ MAX 3' O.C.
  - 1ST LEVEL STUD TO BOTTOM PLATE W/ (1) SDWC15450 @ 16" O.C. Q&R (2) SDWC15450 @ 24" O.C.
7. **PLANK-ORIENTED HEADER FRAMING**
  - A. FASTEN PLANK ORIENTED HEADER TO JACK KING GROUP W/ (2) A35 EACH SIDE OF OPENING. SEE PLANK HEADER FRAMING DETAIL ON DETAIL SHEET.
  - B. FASTEN PLANK ORIENTED HEADER TO JACKING GROUP WITH HORIZONTAL HTS16 STRAP EACH SIDE OF OPENING.
  - C. PLANK-ORIENTED HEADER NOT REQUIRED, THIS LOCATION ONLY. STRUCTURAL HEADER HAS BEEN CALCULATED TO RESIST THE OUT OF PLANE WIND LOAD.
8. UPLIFT ANCHOR MAY NOT BE APPLICABLE DUE TO STUDS PACKED SOLID. SEE "CONVENTIONAL METAL HEADER ALTERNATE" ON TYPICAL WALL SECTION SHEET.
9. (2) AND (3) PLY BEAMS:
  - A. ATTACH PLYS W/ (3) ROWS 12d COMMON @ 12" O.C. STAGGERED (4) PLY LIVL BEAMS.
  - B. ATTACH PLYS W/ (2) ROWS 1 1/2" DIAMETER THROUGH BOLTS W/ NUT AND WASHER @ 24" O.C. STAGGERED.

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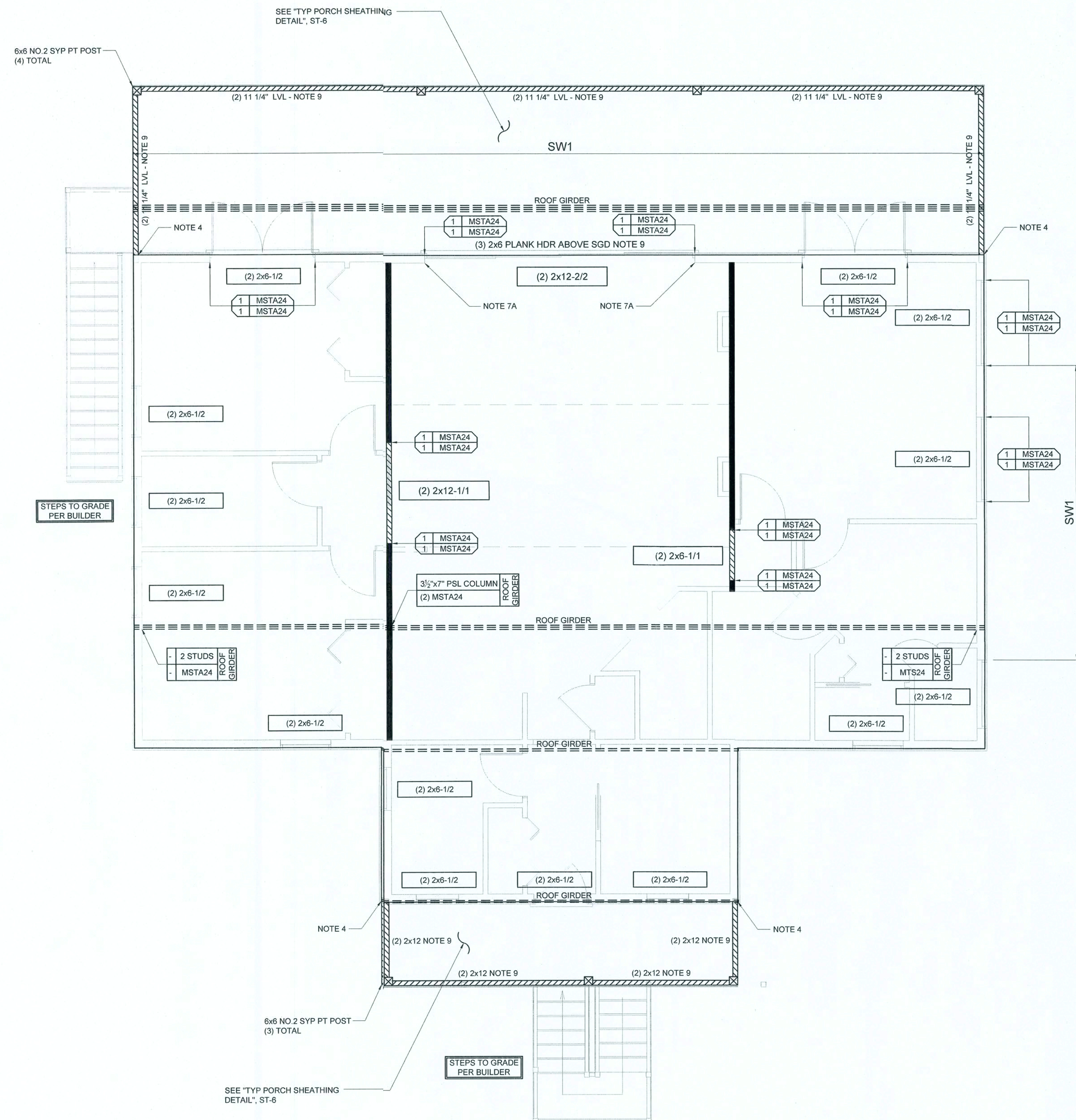
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SHEET NO.:		ST-2A	
FLOOR FRAMING PLAN			
JOB NO.:			
AT5612			
SUBDIVISION:			
1120 SW Riverside Avenue			
LOT NO.:			
---			
FLOOR PLAN:			
McCall Residence			
DESIGNED:			
AEG			
REVIEWED:			
KPK			
REVISIONS		DATE	



METAL CONNECTOR ENGINEERING





FRAMING KEYNOTES  
(METAL CONNECTOR)

NOTES APPLICABLE ONLY WHERE SPECIFIED ON PLAN

1. MIN (2) INTERMEDIATE JACK STUDS REQUIRED BETWEEN PENNINGS.
2. **SEE INTERIOR SHEARWALL DETAIL ON DETAIL SHEET.** IN LOCATIONS WHERE INTERIOR SHEARWALLS ARE REQUIRED, TOP PLATES, ALSO SEE **INTERIOR SHEARWALL AT VAULTED TOP PLATE ON DETAIL SHEET.**
3. ATTACH SW FLR TO FLOOR DIAPHRAGM PER ONE OF THE FOLLOWING:
- A. IF FLOOR TRUSS ALIGNS ABOVE SW, ATTACH FLOOR TRUSS BOTTOM CHORD TO SW DBL. TOP PLATE W/ 10d @ 3" O.C.
  - B. FRAME AND SHEATH SW TO FLOOR DECK ABOVE. ATTACH FLOOR DECK TO SW DBL TOP PLATE W/ 10d @ 3" O.C.
4. **PORCH BEAM FRAMING NOTES**
- A. **BEAM POCKET PORCH BEAMS AT TOP PLT ELEV**  
NOTCH TOP OF BEAM 3" FOR BEAM PCT CONNECTION AT WALL. TOP OF BEAM ELEVATION EQUALS TOP OF TOP PLATE
  - B. **SHIM BELOW PORCH BEAMS JUST ABOVE TOP PLT ELEV**  
POST DOWN PORCH BEAM TO TOP PLT W/ MTS12 OR MSTA24
  - C. **POST DOWN PORCH BEAMS ABOVE TOP PLT ELEV**  
PROVIDE DOUBLE STUD POST DOWN SUPPORT AT WALL FOR PORCH BEAMS. BEAM TO POST DOWN STUDS W/ HTS20 OR MSTA24. POST DOWN STUDS TO STUDS BELOW W/ HTS20 OR MSTA24.
  - D. **BEAM ATTACHED TO EXISTING FRAMING**  
ATTACH PORCH BEAM TO EXISTING STUDS OR KING/JACK STUDS W/ SIMPSON HUG HANGER MATCHING PORCH BEAM DIMENSIONS
5. SHEATH WALL CONTINUOUS TO SECOND FLOOR TOP PLATE PER TYPICAL WALL SECTION SHEET.
6. **HIGH UPLIFT CONNECTION:**
- TOP PLATE TO STUD W/ (1) SDWC15600 @ 16" O.C. OR (2) SDWC15600 @ 24" O.C.
  - ALTERNATE "METAL FLAT STRAP 2ND LEVEL STUD TC 1ST LEVEL STUD" W/ MAX 32" C.
  - 1ST LEVEL STUD TO BOTTOM PLATE W/ (1) SDWC15450 @ 16" O.C. OR (2) SDWC15450 @ 24" O.C.
7. **PLANK-ORIENTED HEADER FRAMING**
- A. FASTEN PLANK ORIENTED HEADER TO JACK KING GROUP W/ (2) A35 EACH SIDE OF OPENING. SEE **PLANK HEADER FRAMING DETAIL** ON DET. SHEET
  - B. FASTEN PLANK ORIENTED HEADER TO JACKING GROUP WITH STRUCTURAL HTS16 STRAP EACH SIDE OF OPENING
  - C. PLANK-ORIENTED HEADER NOT REQUIRED. THIS LOCATION ONLY HORIZONTAL HEADER HAS BEEN CALCULATED TO RESIST THE OUT OF PLANE WIND LOAD.
8. UPLIFT ANCHOR MAY NOT BE APPLICABLE DUE TO STUDS PACKED SOLID. SEE "CONVENTIONAL METAL HEADER ALTERNATE ON TYPICAL WALL SECTION SHEET."
9. (2) AND (3) PLY BEAMS:
- ATTACH PLIES W/ (3) ROWS 12d COMMON @ 12" O.C. STAGGERED
  - (4) PLY LVL BEAMS:
- ATTACH PLIES W/ (2) ROWS 1" DIAMETER THROUGH BOL'S W/ NUT AND WASHER @ 24" O.C. STAGGERED.

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3. DIMENSIONS SHOULD NOT BE SCALED FROM THE DRAWINGS. IF A DIMENSION IS UNCLEAR OR INCONCLUSIVE, THE ENGINEER MUST BE CONTACTED. THE ENGINEER OF RECORD FOR CLARIFICATION.

SHEET NO.:  
**ST-3**  
**STRUCTURAL  
FRAMING PLAN**

JOB NO.:  
AT5612

SUBDIVISION:  
1120 SW Riverside  
Avenue

LOT NO.:

FLOOR PLAN:  
**McCall Residence**

DESIGNED: AEG

REVIEWED: **KPK**

REVISIONS	DATE



**ADEN**

# APEX

STRUCTURAL  
ENGINEERING

KEVIN P KEMP  
LICENS

No 74800  
DocuSigned by:

PRC  
STATE OF

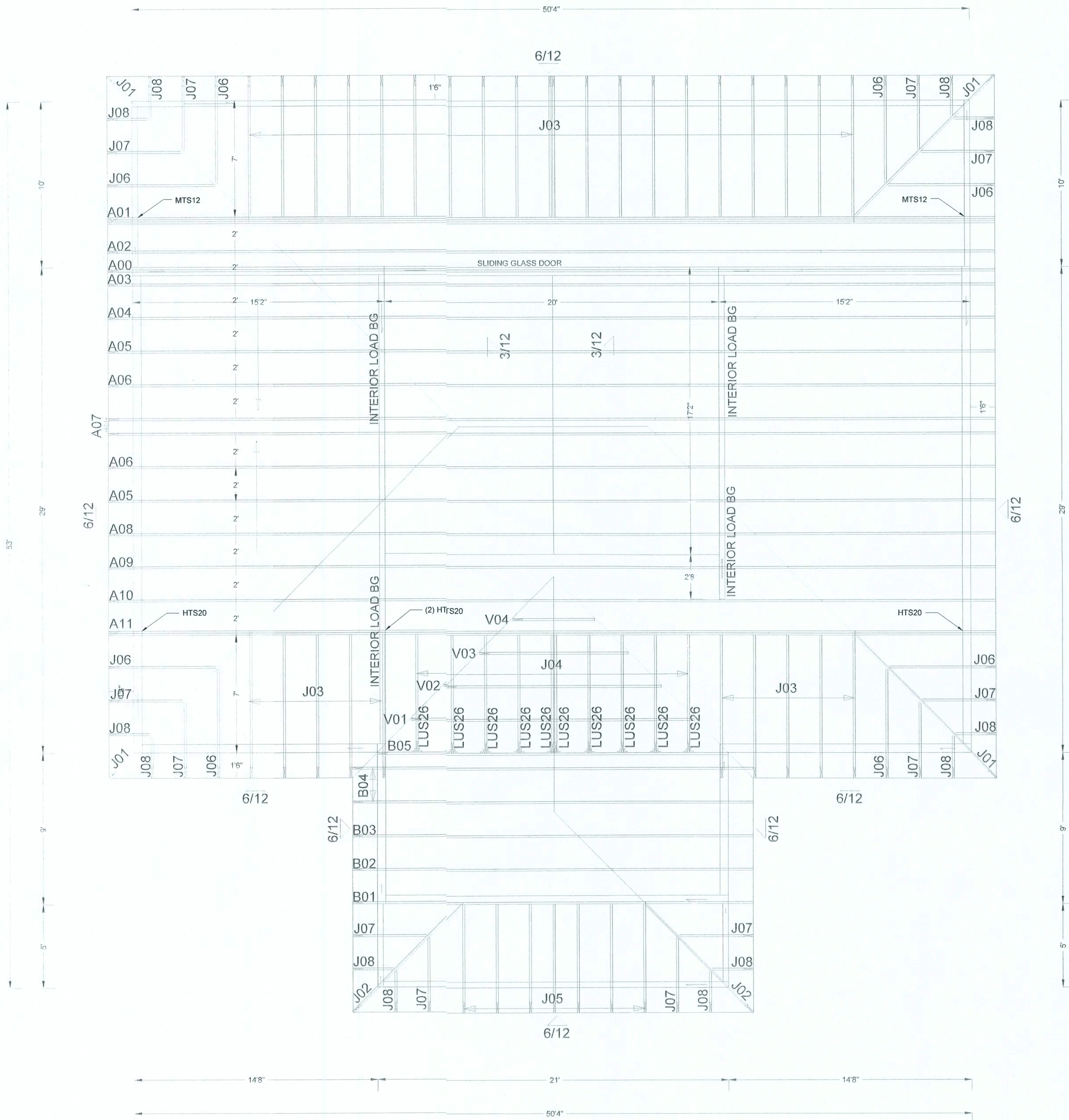
Professional Engineer  
Kevin A. Kenna, P.E.

## FIRST LEVEL STRUCTURAL FRAMING PLAN

$$1/4" = 1' 0"$$

METAL CONNECTOR ENGINEERING





FIRST LEVEL ROOF FRAMING PLAN

- ROOF FRAMING KEYNOTES**
- NOTES APPLICABLE ONLY WHERE SPECIFIED ON PLAN
- PRE-MANUFACTURED SHEAR PANEL
    - INSTALL AS SHOWN ON LAYOUT ABOVE SW SPECIFIED ON FRAMING PLAN
    - SHEAR PANEL TO SW DBL TOP PLT W/ 10d @ 3" O.C.
    - FLOOR DECK TO SHEAR PANEL W/ 10d @ 3" O.C.
    - NOTE: IF PRE-MANUFACTURED SHEAR PANELS ARE NOT PROVIDED BY TRUSS MANUFACTURER, SEE "ELEVATION OF BOG-FRAME OVER SW" DETAIL, SEE DETAIL SHEET
  - TYPICAL BEARING BLOCK
    - BEARING BLOCK TO BE NO 2 SYP, MIN 48" LONG AND TO MATCH DIMENSION OF TRUSS MEMBER
    - ATTACH BEARING BLOCK TO TRUSS VERTICAL OF TRUSS BOTTOM CHORD W/ (3) ROWS 10d @ 4" O.C. STAGGERED
  - LEDGER FRAMING NOTES:
    - FASTEN LEDGER TO FRAMING/TRUSS VERTICALS AT EVERY SUPPORT WITH FASTENING SHOWN BELOW (MAX 24" O.C. SPACING)
    - ADDITIONAL FASTENERS MAY BE REQUIRED AT SPECIFIED LOCATIONS ON PLAN
    - SEE TABLE 3 ON SHEET ST-1/51 FOR FASTENER PROTECTION AGAINST CORROSION
    - IN ACCORDANCE W/ FRC 507.2.1, EXTERIOR DECK LEDGERS SHALL BE SECURE TO WALL FRAMING WITH WOOD SCREWS AS INDICATED ABOVE. COMMON NAILS AT FLOOR FRAMING LEDGERS ARE FOR INTERIOR USE ONLY.
- ROOF FRAMING LEDGER:**

2x6.....	(4) 12d COMMON
2x8.....	(6) 12d COMMON
2x10.....	(8) 12d COMMON
2x12.....	(10) 12d COMMON

**FLOOR FRAMING LEDGER (W/ NAILS):**

PT 2x6.....	(3) 16d COMMON
PT 2x8.....	(5) 16d COMMON
PT 2x10.....	(7) 16d COMMON
PT 2x12.....	(9) 16d COMMON

**FLOOR FRAMING LEDGER (W/ SCREWS):**

PT 2x6.....	(3) 1/2" X 4-1/2" LONG #14 WOOD SCREWS
PT 2x8.....	(5) 1/2" X 4-1/2" LONG #14 WOOD SCREWS
PT 2x10.....	(7) 1/2" X 4-1/2" LONG #14 WOOD SCREWS
PT 2x12.....	(9) 1/2" X 4-1/2" LONG #14 WOOD SCREWS
- OVERFRAMING NOTES:
    - ALL RAFTERS TO BE MIN. 2x6 NO 2 SYP @ 24" O.C. MAX.
    - ALL "SLEEPERS" TO BE PLANK-ORIENTED 2x8 NO 2 SYP MIN.
    - FASTEN "SLEEPERS" TO EACH TRUSS/RAFTER W/ (3) 16d COMMONS MIN.
    - EACH RAFTER TO "SLEEPER" W/ SIMPSON H3 UPLIFT CONNECTOR.
    - ALL RIDGE BOARDS TO BE 2x8 NO 2 SYP MIN.
    - FASTEN 2x8 NO 2 SYP COLLAR TIES FROM RAFTER TO RAFTER WHERE APPLICABLE W/ (5) 10d COMMONS MIN.
- RAFTER SPAN SCHEDULE**

O.C. SPACING	LUMBER SIZE			
	2x6	2x8	2x10	2x12
12"	14'-5"	18'-3"	21'-8"	35'-6"
16"	12'-6"	15'-10"	18'-9"	32'-1"
24"	10'-2"	12'-11"	15'-4"	8'-0"

20 L.L./15 D.L. #2 SYP
- CEILING JOIST SPAN SCHEDULE**

O.C. SPACING	LUMBER SIZE			
	2x4	2x6	2x8	2x10
12"	11'-10"	18'-8"	24'-7"	35'-0"
16"	10'-9"	16'-11"	21'-7"	35'-7"
24"	9'-3"	13'-11"	17'-7"	20'-11"

10 L.L./5 D.L. #2 SYP
- DRAFT STOPPING AT FLOOR TRUSSES TO BE PROVIDED BY BUILDER IN ACCORDANCE WITH FRC R302.12.

TRUSS ENGINEERING NOTES:

- UNLESS SPECIFICALLY NOTED ON TRUSS FRAMING PLAN, ALL TRUSS TO TOP PLATE CONNECTIONS SHALL BE ACCORDING TO THE TYPICAL WALL SECTION SHEET.
- ALL EXTERIOR WALLS ARE HELD BACK 1/2" FOR SHEATHING.

1/4" = 1' 0"

METAL CONNECTOR ENGINEERING

THE ENGINEERING DATA AND DETAILS OF APPEX TECHNOLOGY ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF APPEX TECHNOLOGY, INC. THE INFORMATION REPRESENTED IN THIS DRAWING IS THE PROPERTY OF APPEX TECHNOLOGY, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF APPEX TECHNOLOGY, INC. THE DRAWINGS SHALL BE SCALED FROM THE DIMENSIONS INDICATED IN THE DRAWING. IF A DIMENSION IS UNCLEAR OR INCONCLUSIVE, THE ENGINEER OF RECORD FOR THIS PROJECT SHALL BE CONTACTED FOR CLARIFICATION.

SHEET NO: **ST-3A**

**ROOF FRAMING PLAN**

JOB NO: **AT5612**

SUBDIVISION: **1120 SW Riverside Avenue**

LOT NO: **---**

FLOOR PLAN: **McCall Residence**

DESIGNED: **AEG**

REVIEWED: **KPK**

REVISIONS	DATE

**APEX**

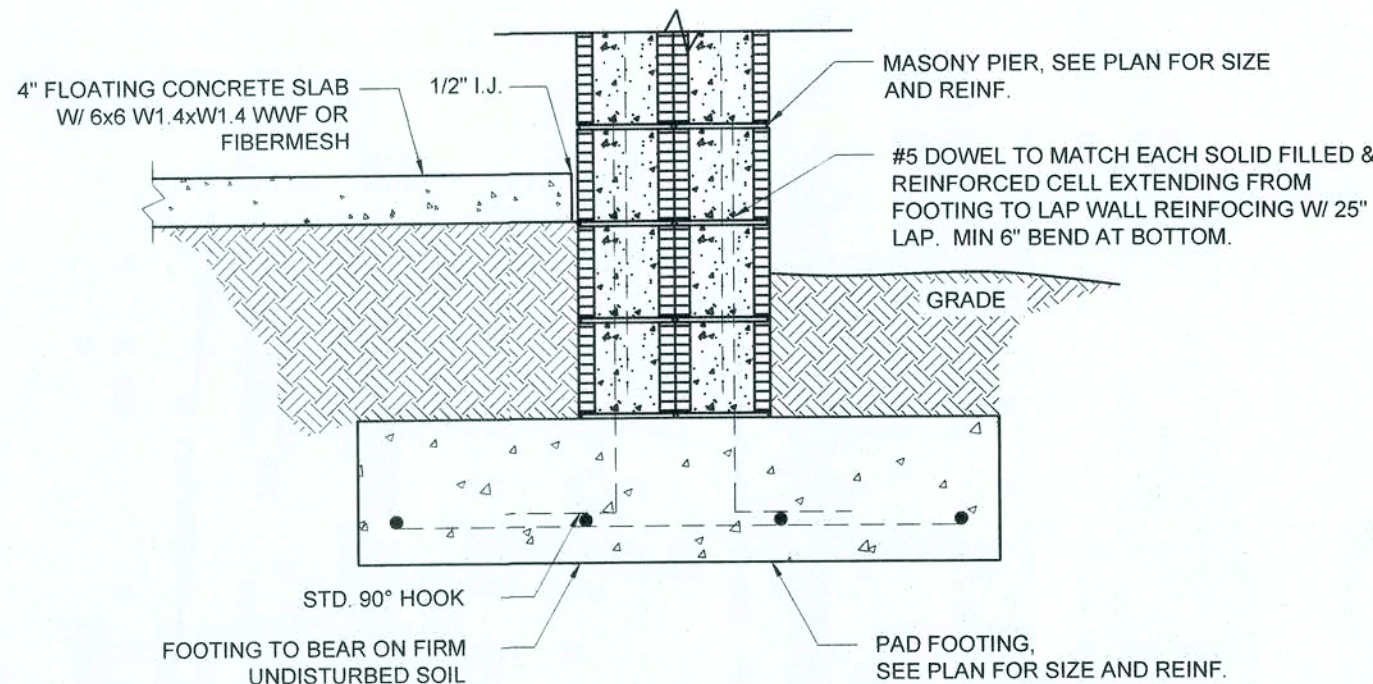
STRUCTURAL ENGINEERING

KEVIN P. KEMP  
LICENSED PROFESSIONAL ENGINEER  
No. 74800  
Designated by:  
Jesse Young  
STATE OF FLORIDA  
10/29/2018

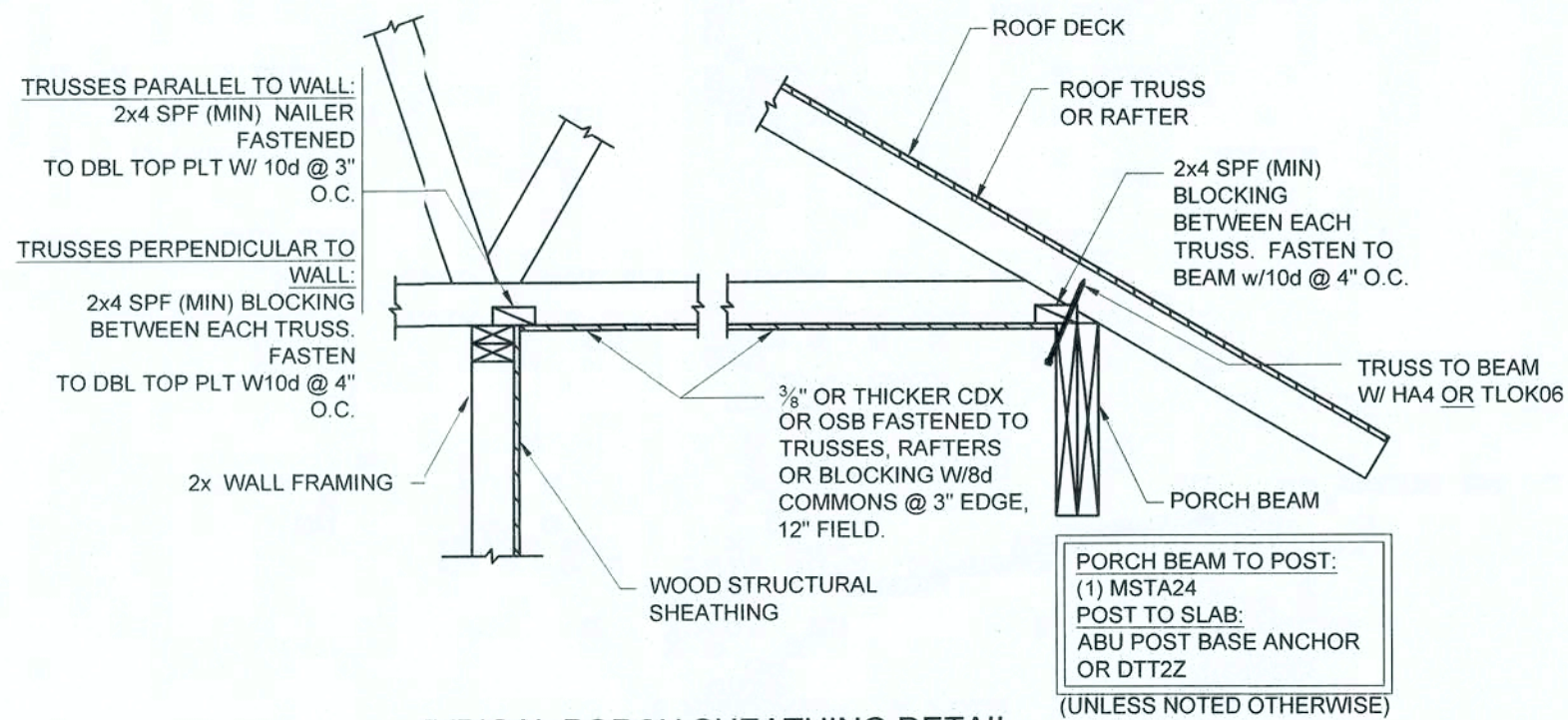








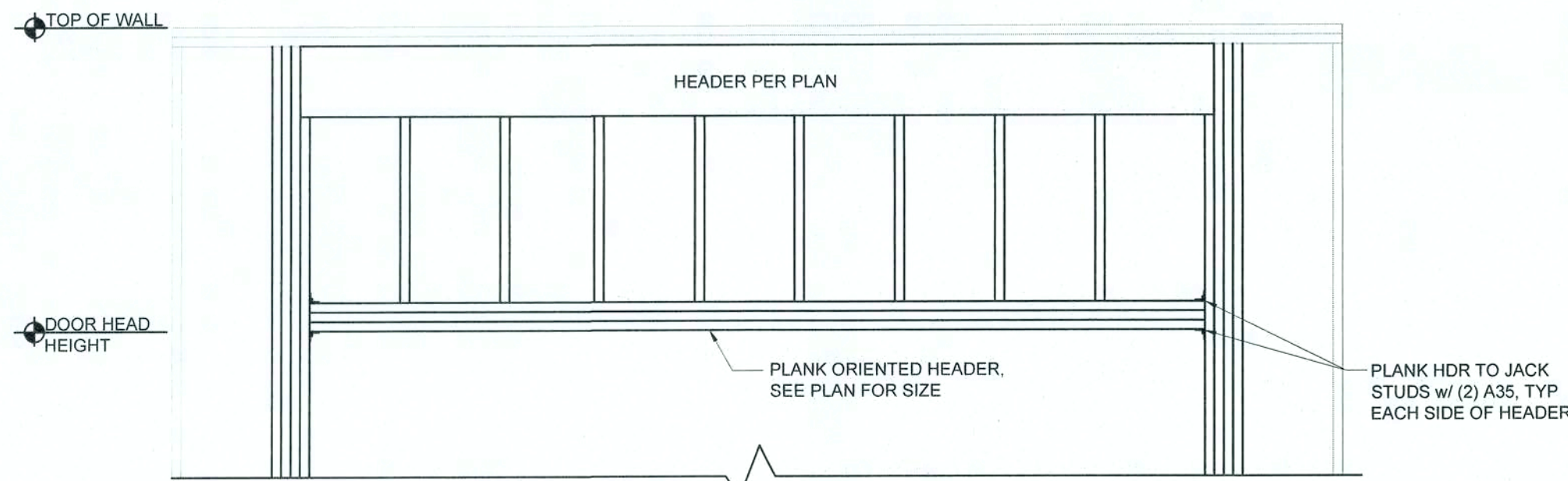
TYPICAL MASONRY PIER FOUNDATION DETAIL



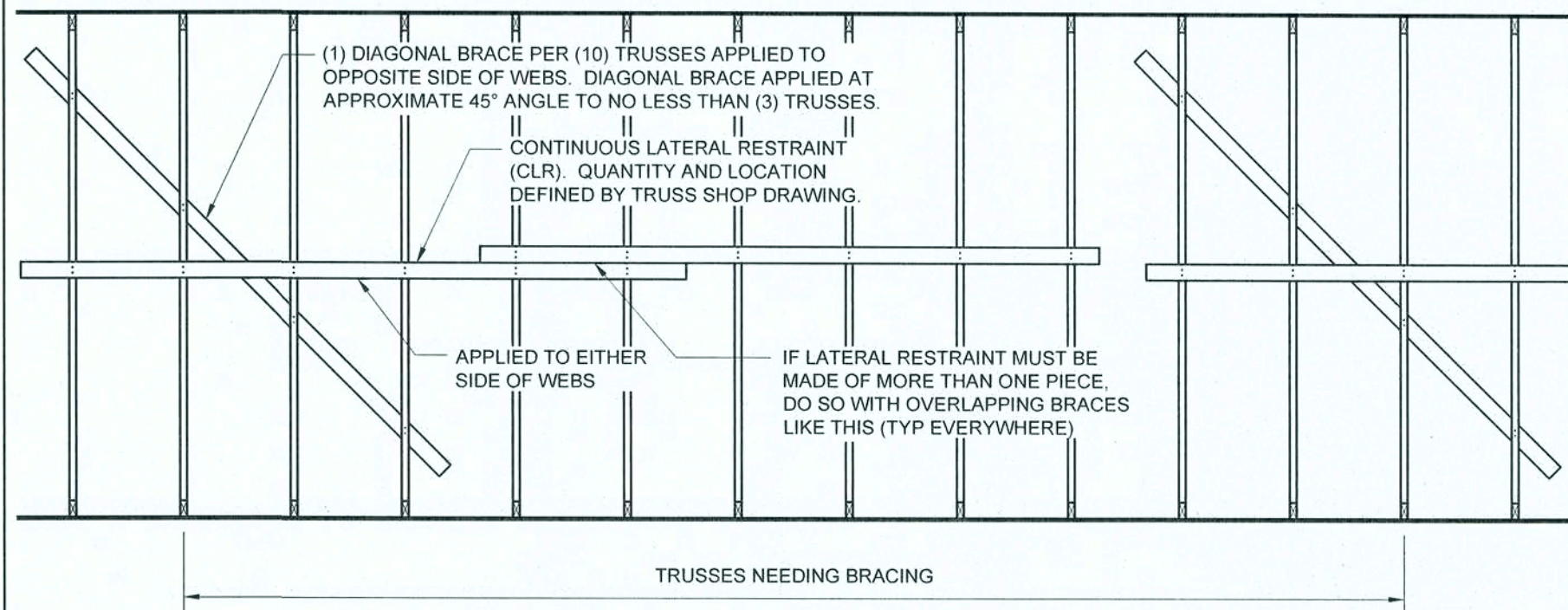
TYPICAL PORCH SHEATHING DETAIL  
THIS DETAIL IS REQUIRED AT ALL COVERED PORCHES  
UNLESS NOTED OTHERWISE.

**\*\*OPTIONAL GYPSUM CEILING\*\***

- 1/2" EXTERIOR GYPSUM CEILING BOARD MAY BE USED IN LIEU OF THE 1/2" OSB OR CDX SPECIFIED IN THE TYPICAL PORCH SHEATHING DETAIL, APPLICABLE AT THIS LOCATION ONLY
- INSTALL GYPSUM W/ LONG DIMENSION PERPENDICULAR TO SUPPORTS W/ 5d x 1 1/8" COOLER NAIL OR NO. 6 x 1 1/2" LONG SCREW @ 4" O.C. EDGE, 8" O.C. FIELD

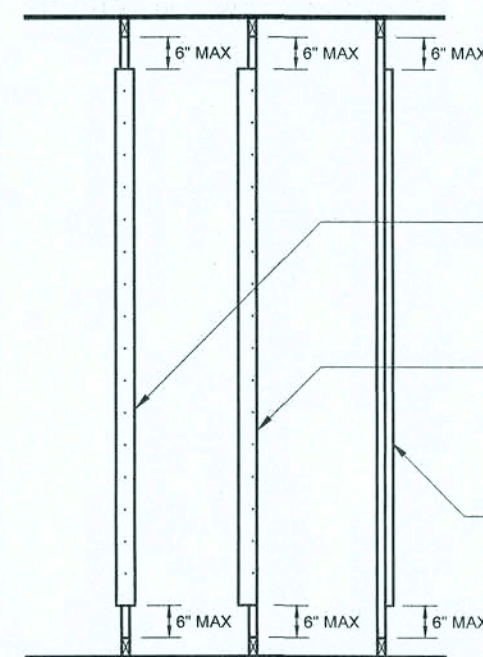


PLANKHEADER FRAMING ELEVATION



LATERAL BRACING - MULTIPLE TRUSSES

1. ALL RESTRAINT LUMBER SHOWN SHALL BE 2x4 NO.3 SPF OR BETTER (UNO).
2. SHOULD A SCENARIO ARISE THAT DOES NOT RESEMBLE THOSE INDICATED ABOVE, IMMEDIATELY CONTACT THE ENGINEER OF RECORD FOR APPROPRIATE BRACING DETAILS.
3. BRACING LUMBER SHALL INTERSECT THE WEBS OF THE BRACED TRUSS AT LOCATIONS INDICATED AS NEEDING BRACING ON THE INDIVIDUAL TRUSS DETAILS PRODUCED BY THE TRUSS ENGINEER.
4. ALL FASTENERS SHOWN ARE 131" x 3" LONG (UNO).
5. DESIGNED PER BCSI-B3, 2007.



CONTINUOUS LATERAL RESTRAINT WEB BRACE SUBSTITUTE			
WEB MEMBER SIZE	SPECIFIED CLR	ALTERNATE BRACING T OR L	SCAB
2x4	1 ROW	2x4	(1)2x4
2x4	2 ROWS	2x6	(2)2x4*
2x6	1 ROW	2x4	(1)2x6
2x6	2 ROWS	2x6	(2)2x4*
2x8	1 ROW	2x6	(1)2x8
2x8	2 ROWS	2x6	(2)2x6*

SINGLE TRUSS BRACING

1. INDIVIDUAL WEB BRACING MAY BE USED WHEN CONTINUOUS LATERAL RESTRAINT (CLR) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.
2. INDIVIDUAL WEB BRACING MAY CONSIST OF T-BRACING, L-BRACING, OR SCAB BRACING. REFER TO CHART AND DETAIL FOR MORE INFORMATION.
3. INDIVIDUAL WEB BRACING MATERIAL TO BE SAME SIZE, SPECIES, AND GRADE AS WEB TO BE BRACED.

PERMANENT WEB BRACING

APEX TECHNOLOGY IS A FICTITIOUS NAME OWNED BY JAX APEX TECHNOLOGY INC., A FLORIDA CORPORATION FLORIDA ENGINEER BUSINESS NO. 7547-4745 SUTTON PARK COURT SUITE 402, JACKSONVILLE, FL 32224 - 904.821.5200

SHEET NO. ST-6

STRUCTURAL DETAILS

JOB NO. AT5612

SUBDIVISION: 1120 SW Riverside Avenue

LOT NO. --

FLOOR PLAN: McCall Residence

DESIGNED:

AEG

REVIEWED:

KPK

REVISIONS	DATE

