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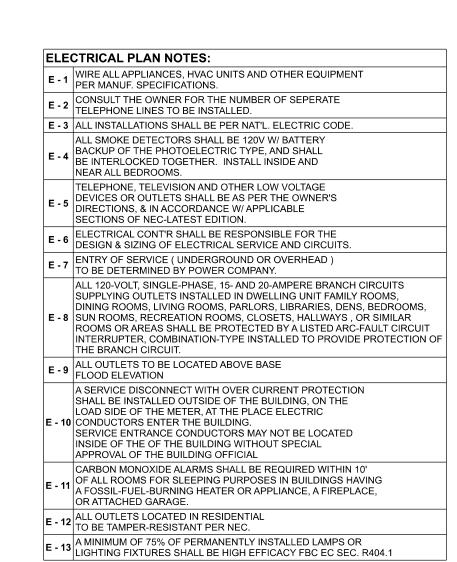
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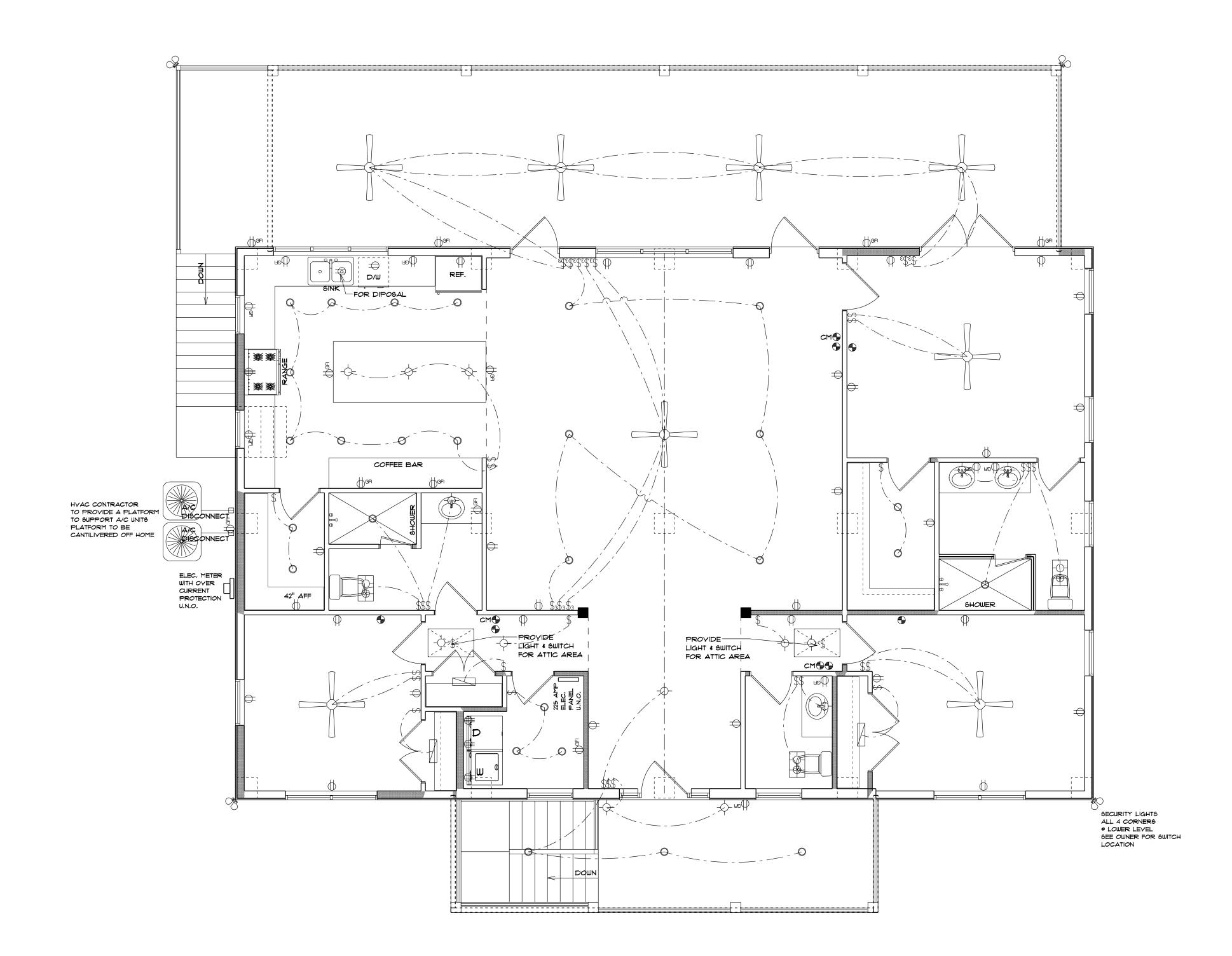
LIMITATION: This design is valid for one

Mark Disosway P.E. **163 SW Midtown Place** Lake City, Florida 32025

JOB NUMBER: 221146 OF 6 SHEETS

	ELECTRICAL LEGEND		
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)		
<u>a</u> p	DOUBLE SECURITY LIGHT		
	2X4 FLUORESCENT LIGHT FIXTURE		
0	RECESSED CAN LIGHT		
- → ®	BATH EXAUST FAN WITH LIGHT		
₩	BATH EXAUST FAN		
- -	LIGHT FIXTURE		
Ф	DUPLEX OUTLET		
	220v OUTLET		
₩ GFI	GFI DUPLEX OUTLET		
•	SMOKE DETECTOR		
\$	WALL SWITCH		
\$3	3 WAY WALL SWITCH		
\$	4 WAY WALL SWITCH		
∯ wp/gfi	WATER PROOF GFI OUTLET		
∇	PHONE JACK		
TV	TELEVISION JACK		
•	GARAGE DOOR OPENER		
⊕ СМ	CARBON MONOXIDE ALARM		





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

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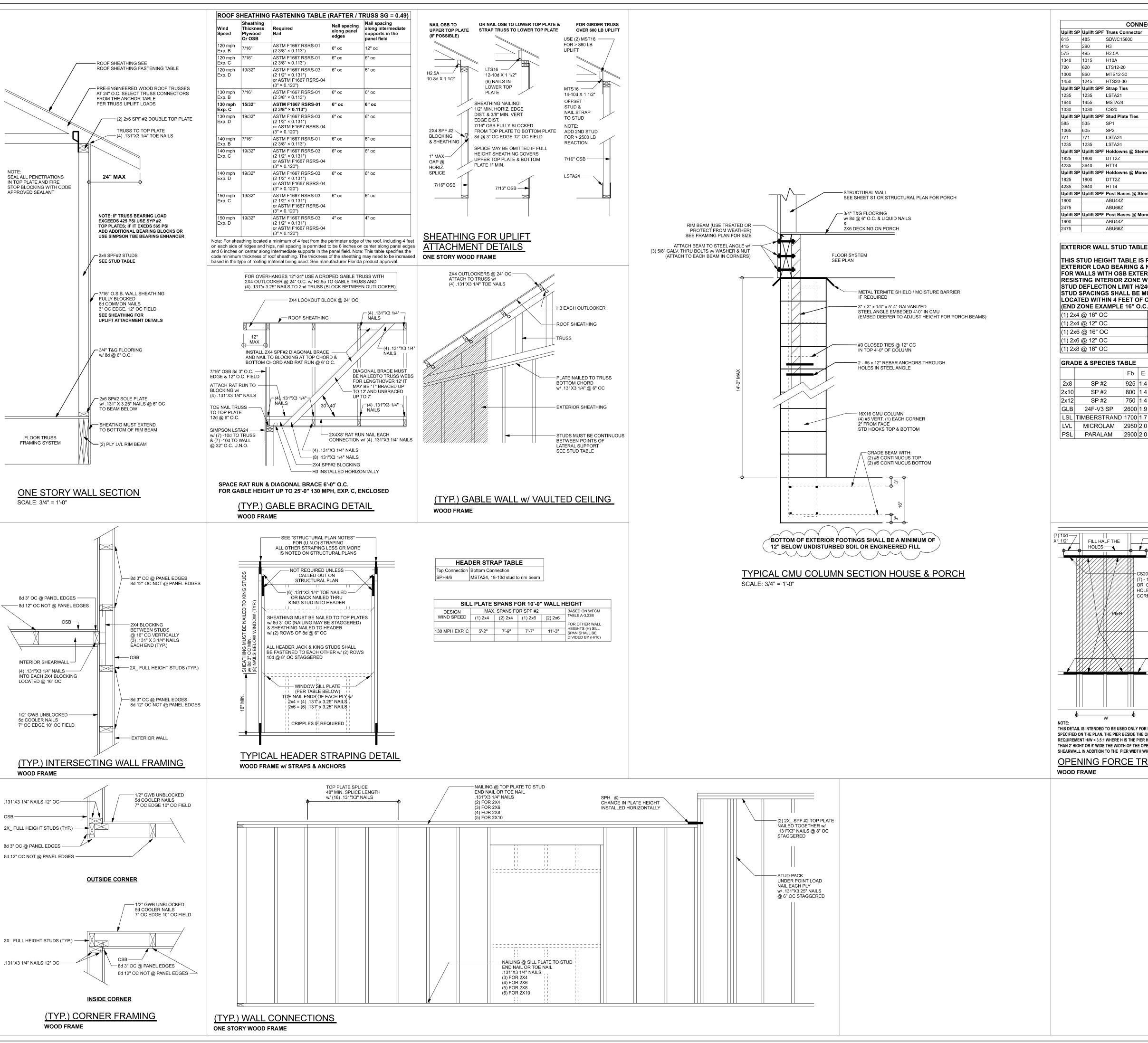
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> JOB NUMBER: 221146

OF 6 SHEETS



		CONNECTO	OR TABLE	
plift SP	Uplift SPF	Truss Connector	To Plate	To Truss/Rafter
15	485	SDWC15600	-	-
15	290	H3	4-8dx1 1/2"	4-8dx1 1/2"
75	495	H2.5A	5-8dx1 1/2"	5-8dx1 1/2"
340	1015	H10A	9-10d1 1/2"	9-10d1 1/2"
20	620	LTS12-20	6-10d1 1/2"	6-10d1 1/2"
000	860	MTS12-30	7-10d1 1/2"	7-10d1 1/2"
450	1245	HTS20-30	12-10d1 1/2"	12-10d1 1/2"
plift SP	Uplift SPF	Strap Ties	To One Member	To Other Member
235	1235	LSTA21	8-10d	8-10d
340	1455	MSTA24	9-10d	9-10d
030	1030	CS20	7-10d	7-10d
plift SP	Uplift SPF	Stud Plate Ties	To Stud	To Plate
85	535	SP1	6-10d	4-10d
065	605	SP2	6-10d	6-10d
71	771	LSTA24	10-10d	wrap under or over plate
235	1235	LSTA24	14-10d	wrap under or over plate
plift SP	Uplift SPF	Holdowns @ Stemwall	To Stud / Post	Anchor
825	1800	DTT2Z	8-SDS 1/4"x1 1/2"	1/2"x12" Titen HD
235	3640	HTT4	18-16dx2 1/2"	1/2"x12" Titen HD
plift SP	Uplift SPF	Holdowns @ Mono	To Stud / Post	Anchor
825	1800	DTT2Z	8-SDS 1/4"x1 1/2"	1/2"x6" Titen HD
235	3640	HTT4	18-16dx2 1/2"	1/2"x12" Titen HD
plift SP	Uplift SPF	Post Bases @ Stemwall	To Post	Anchor
900		ABU44Z	12-16d	5/8"x12" Drill & Epoxy
475		ABU66Z	12-16d	5/8"x12" Drill & Epoxy
plift SP	Uplift SPF	Post Bases @ Mono	To Post	Anchor
900		ABU44Z	12-16d	5/8"x7" Drill & Epoxy
175		ABU66Z	12-16d	5/8"x7" Drill & Epoxy

THIS STUD HEIGHT TABLE IS PER 2012 WFCM, TABLE 3.20B5, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS FOR WALLS WITH OSB EXTERIOR AND 1/2" GYP INTERIOR RESISTING INTERIOR ZONE WINDLOADS, 130 MPH, EXPOSURE C, STUD DEFLECTION LIMIT H/240 (NOT OK FOR BRITTLE FINISH). STUD SPACINGS SHALL BE MULTIPLIED BY 0.8 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING.

) 2x8 @ 16" OC	TO 22'-0" STUD HEIGHT
) 2x6 @ 12" OC	TO 17'-3" STUD HEIGHT
) 2x6 @ 16" OC	TO 15'-7" STUD HEIGHT
) 2x4 @ 12" OC	TO 11'-2" STUD HEIGHT
) 2x4 @ 16" OC	TO 10'-1" STUD HEIGHT
	•

GRADE & SPECIES TABLE				
		Fb	Е	
2x8	SP #2	925	1.4	
2x10	SP #2	800	1.4	
2x12	SP #2	750	1.4	
GLB	24F-V3 SP	2600	1.9	
LSL	TIMBERSTRAND	1700	1.7	
LVL	MICROLAM	2950	2.0	

(7) 10dX1 1/2"—— FILL HALF THE (7) - 10dX1 1/2" TO HEADER OR CORNER FILL HALF THE HOLES BETWEEN HEADER & -2X4 BLOCKING -

THIS DETAIL IS INTENDED TO BE USED ONLY FOR NAROW SHEARWALL SEGMENTS AS SPECIFIED ON THE PLAN. THE PIER BESIDE THE OPENING MUST MEET THE ASPECT RATIO REQUIREMENT H/W < 3.5:1 WHERE H IS THE PIER HEIGHT. FOR WINDOWS NOT GREATER THAN 2' HIGHT OR 5' WIDE THE WIDTH OF THE OPENING MAY BE INCLUDED AS FULL HEIGHT SHEARWALL IN ADDITION TO THE PIER WIDTH WHEN STRAPPED ACCORDING TO THIS DETAIL. **OPENING FORCE TRANSFER**

	495	H2.5A	5-8dx1 1/2"	5-8dx1 1/2"
)	1015	H10A	9-10d1 1/2"	9-10d1 1/2"
	620	LTS12-20	6-10d1 1/2"	6-10d1 1/2"
)	860	MTS12-30	7-10d1 1/2"	7-10d1 1/2"
)	1245	HTS20-30	12-10d1 1/2"	12-10d1 1/2"
ft SP	Uplift SPF	Strap Ties	To One Member	To Other Member
5	1235	LSTA21	8-10d	8-10d
)	1455	MSTA24	9-10d	9-10d
)	1030	CS20	7-10d	7-10d
ft SP	Uplift SPF	Stud Plate Ties	To Stud	To Plate
	535	SP1	6-10d	4-10d
5	605	SP2	6-10d	6-10d
	771	LSTA24	10-10d	wrap under or over plate
5	1235	LSTA24	14-10d	wrap under or over plate
ft SP	Uplift SPF	Holdowns @ Stemwall	To Stud / Post	Anchor
5	1800	DTT2Z	8-SDS 1/4"x1 1/2"	1/2"x12" Titen HD
5	3640	HTT4	18-16dx2 1/2"	1/2"x12" Titen HD
ft SP	Uplift SPF	Holdowns @ Mono	To Stud / Post	Anchor
;	1800	DTT2Z	8-SDS 1/4"x1 1/2"	1/2"x6" Titen HD
5	3640	HTT4	18-16dx2 1/2"	1/2"x12" Titen HD
ft SP	Uplift SPF	Post Bases @ Stemwall	To Post	Anchor
)		ABU44Z	12-16d	5/8"x12" Drill & Epoxy
5		ABU66Z	12-16d	5/8"x12" Drill & Epoxy
ft SP	Uplift SPF	Post Bases @ Mono	To Post	Anchor
		ABU44Z	12-16d	5/8"x7" Drill & Epoxy
)		/ NDO-1-12		

ND ZONE EXAMPLE 16" O.C. x 0.8 = 12.8" O.C.)					
2x4 @ 16" OC	TO 10'-1" STUD HEIGHT				
2x4 @ 12" OC	TO 11'-2" STUD HEIGHT				
2x6 @ 16" OC	TO 15'-7" STUD HEIGHT				
2x6 @ 12" OC	TO 17'-3" STUD HEIGHT				
2x8 @ 16" OC	TO 22'-0" STUD HEIGHT				

GRADE & SPECIES TABLE				
		Fb	Е	
2x8	SP #2	925	1.4	
2x10	SP #2	800	1.4	
2x12	SP #2	750	1.4	
GLB	24F-V3 SP	2600	1.9	
LSL	TIMBERSTRAND	1700	1.7	
LVL	MICROLAM	2950	2.0	

DESIGN CRITERIA & LOADS:

4:12 TO < 12:12

12:12 & GREATER

FLOOD ZONE

9x7 GARAGE DOOR

16x7 GARAGE DOOR

SOIL BEARING CAPACITY 1500 PSF

7TH EDITION FLORIDA BUILDING CODE RESIDENTIAL (2020)
ASCE 7-16
130 MPH
С
I
II
ENCLOSED
0.18
7-45 DEGREES
30 FT
SEE TABLE
40 PSF LIVE LOAD
30 PSF LIVE LOAD
20 PSF LIVE LOAD

16 PSF LIVE LOAD 12 PSF LIVE LOAD

COMPONENT & CLADING DESIGN PRESSURES 130 MPH (EXP O						
EFFECTIVE WIND AREA (FT2)	ZONE 4 INTERIOR		ZONE 5 END 4' FROM A OUTSIDE CORN			
0 - 20	+25.6(Vasd)	-27.8(Vasd)	+25.6(Vasd)	-34.2(Vasd)		
0 00	140.6(14.14)	46.00(4.44)	140 60 (14)	E 7 (1 (. 14)		

+22.6(Vasd) -25.5(Vasd)

+21.7(Vasd) -24.1(Vasd)

+42.6(Vult) -46.2(Vult) +42.6(Vult) -57(Vult) GARAGE DOOR DESIGN PRESSURES 130 MPH (EXP C)

THIS BUILDING IS NOT IN THE FLOOD ZONE

OUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET RAVITY LOAD REQUIREMENTS (ASSUME 1500 PSF BEARING CAPACITY UNLESS ISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE) CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 2500 PSI. VELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI, WELDED WIRE EINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 D 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS IBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116

GENERAL NOTES:

ECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND ONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT RACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 40, DEFORMED BARS, FY = 40 KSI. ALL LAP SPLICES 40 * DB 25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED.

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

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

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 FBCR REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMITS 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

ROOF SYSTEM DESIGN: THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR, 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 HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBCR 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

BEARING LOCATIONS.

TRUSS SHEETS.

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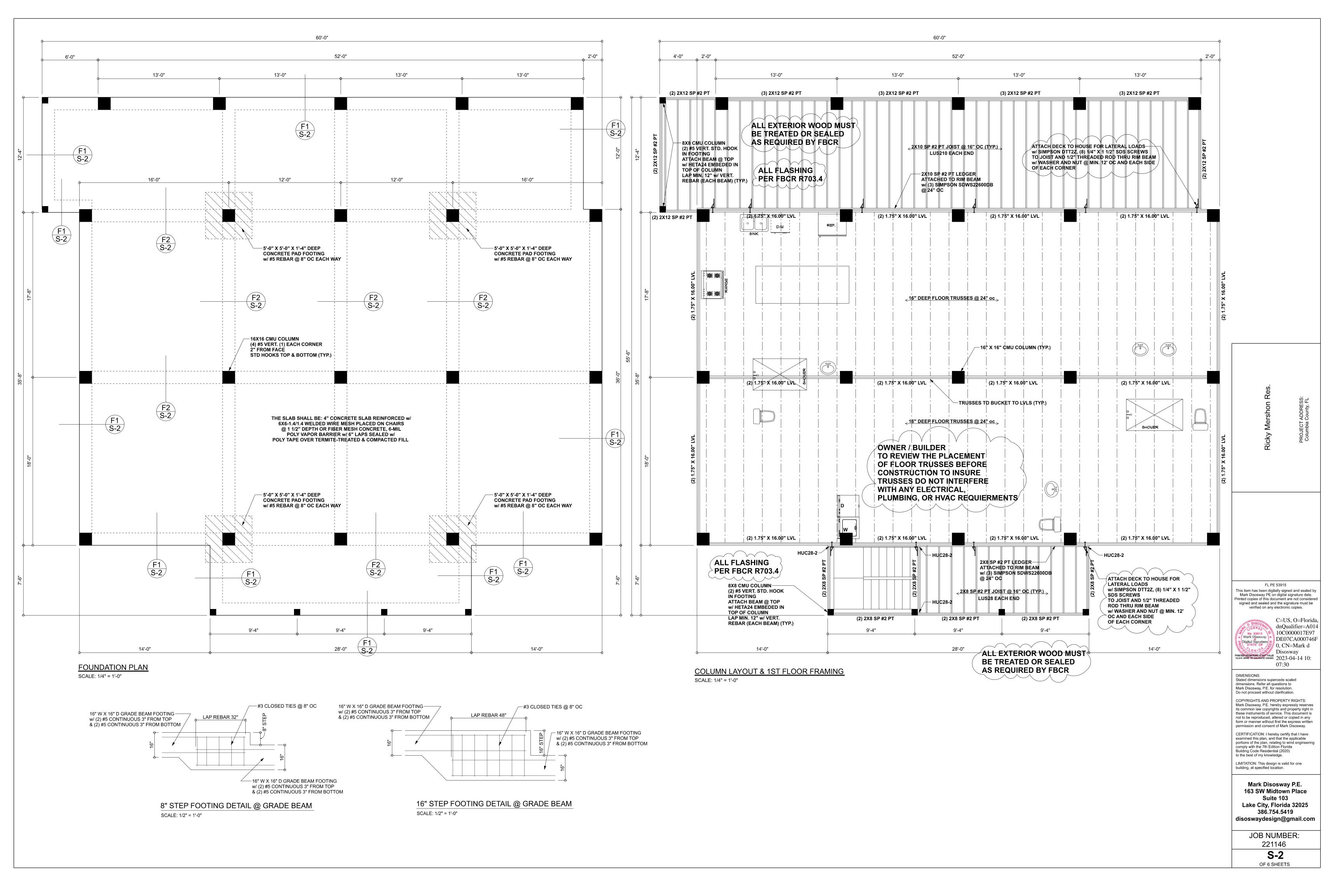
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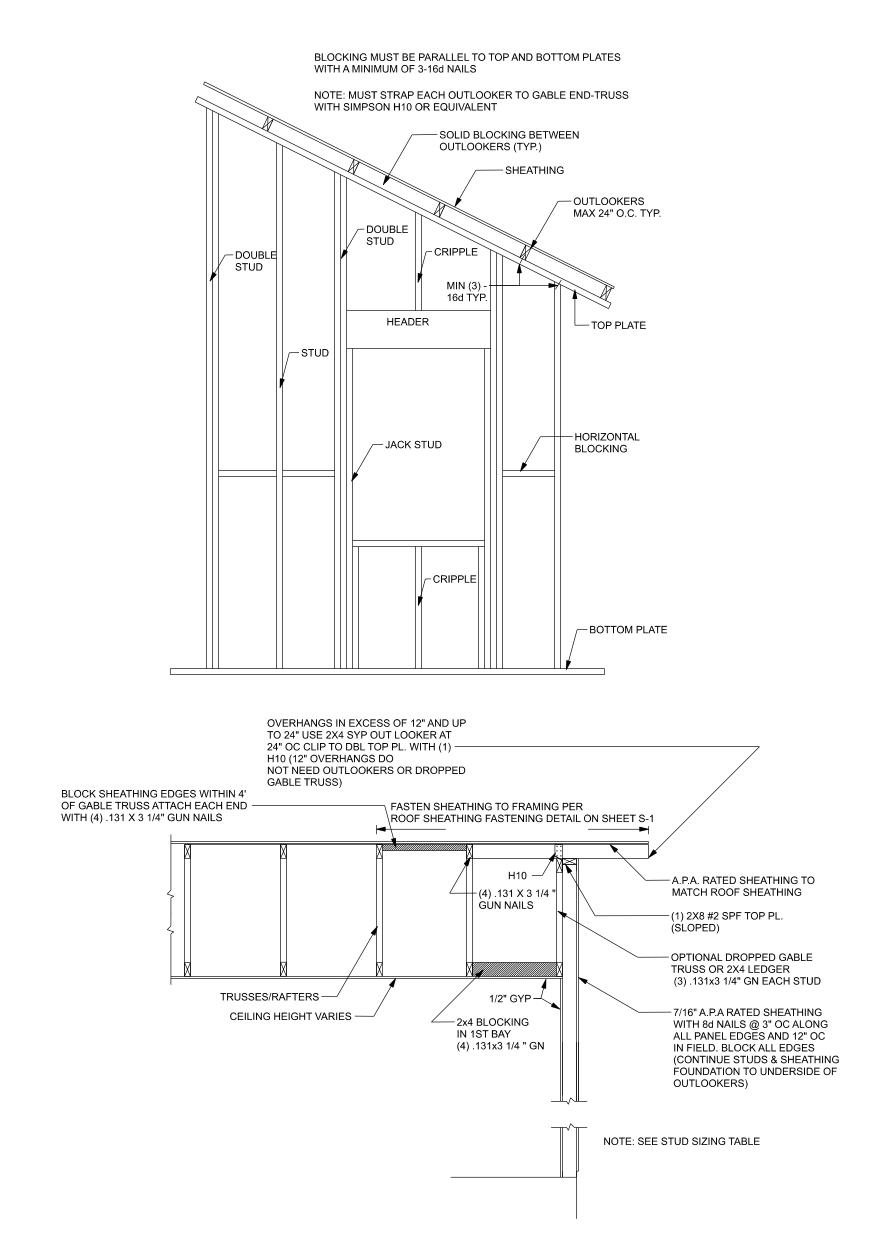
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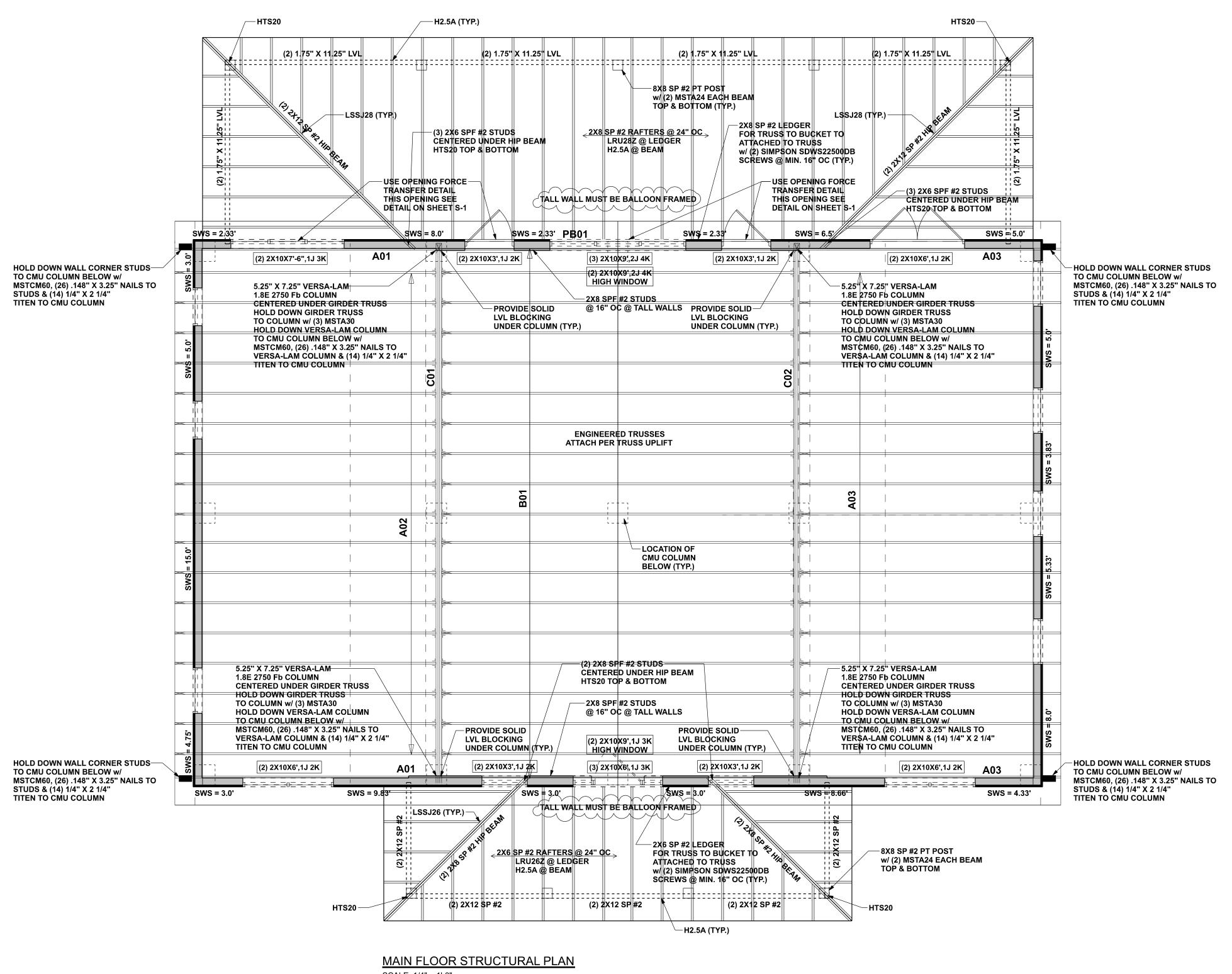
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> > OF 6 SHEETS





GABLE END WALL BALLOON FRAMING DETAIL



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

STRUCTURAL PLAN NOTES

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

PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSI1-03, BCSI-B1, BCSI-B2, & BCSI-B3. BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

UNLESS NOTED OTHERWISE (MINIMUM REQUIERMENTS) ***SEE STRUCTURAL PLAN FOR ANY SPECIFIC CALL OUTS*** ALL LOAD BEARING FRAME WALL & PORCH HEADERS BEAM / HEADERS (SIZE) SHALL BE A MINIMUM OF (2) 2X10 SP #2 (UNO)

HEADERS (JACK & KING STUDS) ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (UNO) HEADERS (STRAPING) ALL HEADERS w/ UPLIFT TO BE STRAPPED DOWN @ EACH SIDE WITH (1) SPH_ @ TOP OF WALL & (1) MSTA24 STRAP TO RIM BEAM BOTTOM

JACK STUDS UNDER GIRDER TRUSS USE ONE JACK STUD GIRDER SUPPORT PER 2000 LB LOAD

13994 LBF

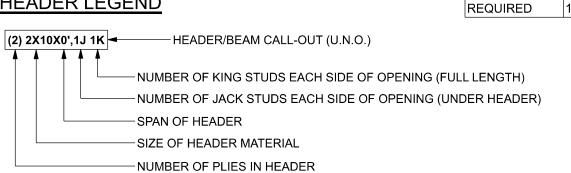
12829 LBF

ACTUAL vs REQUIRED SHEARWALL LONGITUDUNAL TRANSVERSE

14973 LBF

13548 LBF

HEADER LEGEND



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S-3 OF 6 SHEETS