



City of Venice
Building Department
401 W. Venice Ave
Venice, FL 34285



Phone (941) 486-2626 Fax (941) 486-2448 Inspections (941) 483-5907 Apply Online <https://trakit.venicegov.com/eTRAKit/>

RESIDENTIAL DATA SUMMARY WORKSHEET

This form shall be completed and submitted with Application Documents

Owners Name D R HORTON INC P.I.D. 0399070138
Project Address 317 IBIZA LOOP VENICE , FL, 34292
Design Professional Structural Systems Phone 239-549-4554 Fax _____
Contractor DR HORTON INC Phone 239-225-600 Fax _____

Applicable Codes

Building Code Florida Building Code 2020 Residential Volume
Mechanical Code Florida Building Code 2020 Residential Volume
Plumbing Code Florida Building Code 2020 Residential Volume
Electrical Code NFPA 70 / NEC 2020
Accessibility Code Florida Building Code FACBC 2020
Energy Code Florida Building Code Residential Energy Efficiency 2020

Manufacturer / FL Product Approval / NOA #

Doors / SGD MI Window FL22401.3-FL22401.4
Windows SH MI Window-Impact FL21637.7
Overhead Doors Wayne Dalton FL9174.1/9174.3
Mitered Glass N/A
Shutters ALL AMERICAN - FL17869.1
Roof Coverings Eagle Roofing - FL7473.1 (R9)
Soffit KAYCAN LTD - FL24564.3 (R4)
Sentricon Bait BORA CARE

Method of Design per R301 / Residential Volume			
<u>AF&PA (WFCM)</u>	<u>ASCE 7</u>	<u>AISI (COFS/PM)</u>	<u>ICC 600</u>
<u>MAF Guide</u>	Other _____		
<u>X</u> <u>FBC 2020 / Residential</u>			
Volume Construction Type	IV V (circle one)	Other	<u>VB</u>
Design Wind Speed <u>160</u> m.p.h.	R301.2 (4)	WINDOW & DOOR WIND	
Importance Factor <u>1.0</u>		PRESSURE DESIGN LOADING	
Wind Debris Area <u>Yes</u> No	Exposure B of <u>C</u> (circle one)	Mean Roof Height <u>15</u> feet	
		Windows <u>+33.5, -44.8</u> psf	
		Doors <u>+33.5, -44.8</u> psf	
		Garage Doors <u>+29.4, -33.3</u> psf	
Structural Forces Section R301.4 / R301.5 / R301.6		Please Show Design Pressure for Worst Case ONLY	
Floor Design	Live Load <u>40</u> p.s.f.		
	Dead Load <u>Slab On Grade</u> p.s.f.		
Roof Design	Live Load <u>20</u> p.s.f.		
	Dead Load <u>TC=20 BC=10</u> p.s.f.		
Components and Cladding Design Pressures: R301.2 (7)			
Z1 <u>+24.9, -44.8</u> p.s.f.	Z3 <u>+24.9, -61.7</u> p.s.f.	Z5 <u>+33.5, -44.8</u> p.s.f.	
Z2 <u>+24.9, -61.7</u> p.s.f.	Z4 <u>+33.5, -36.3</u> p.s.f.	a= edge distance <u>4 ft.</u>	
Misc. Notes		Area Tabulation	
For Specific window and door pressures, see Sheet A3 or S-2, whichever one is sealed.		Living	1,503 sf / Conditioned Space
		Garage	391 sf
		Lanai	143 sf
		Entry	20 sf
		Storage	sf
		Other	sf
			2,057 Total square footage

I certify to the best of my knowledge and belief, these plans and specifications have been designed to comply with the structural portion of the Building Code for wind and gravity loads as amended and enforced by the permitting jurisdiction.

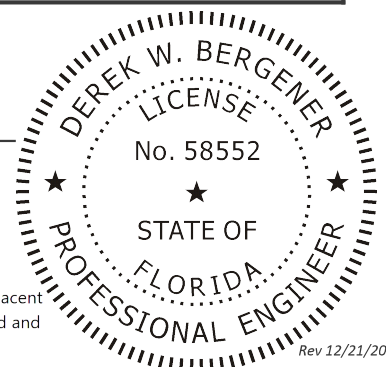
Signature _____
Architect / Engineer

Date _____

Seal

Residential Data Summary Worksheet

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<u>MAF Guide</u>	Other _____		
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WINDOW & DOOR WIND			
PRESSURE DESIGN LOADING			
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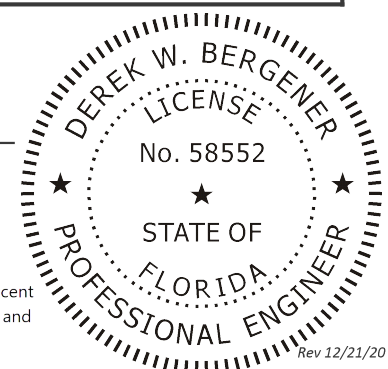
Signature _____
Architect / Engineer

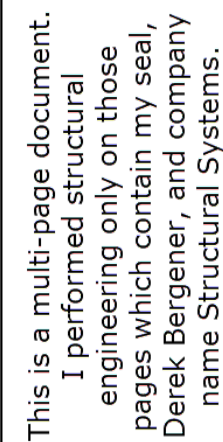
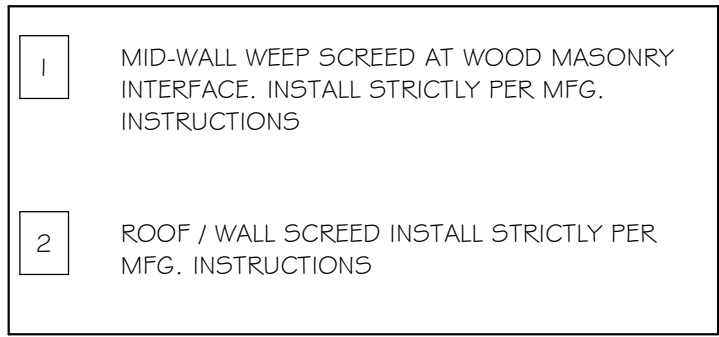
Date _____

Seal

Residential Data Summary Worksheet

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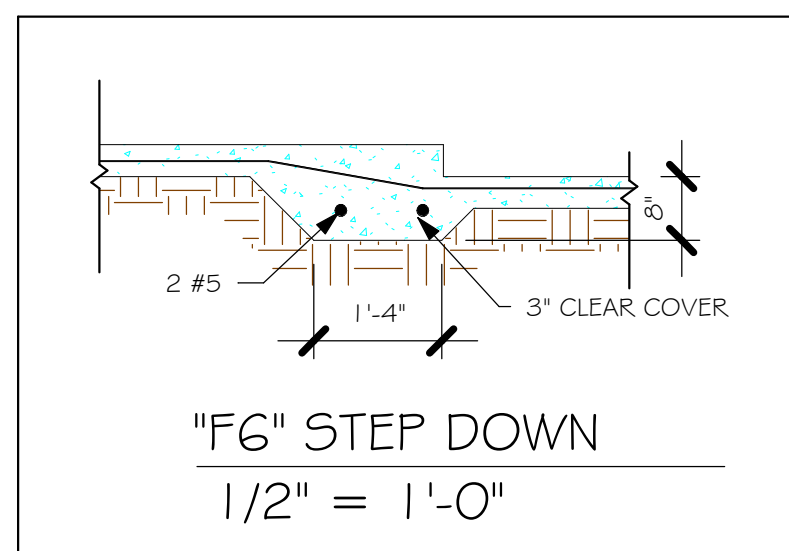
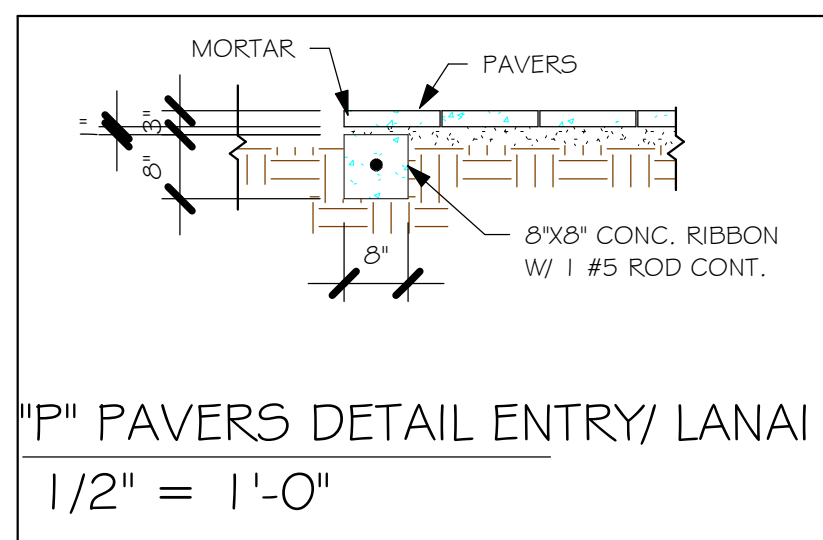
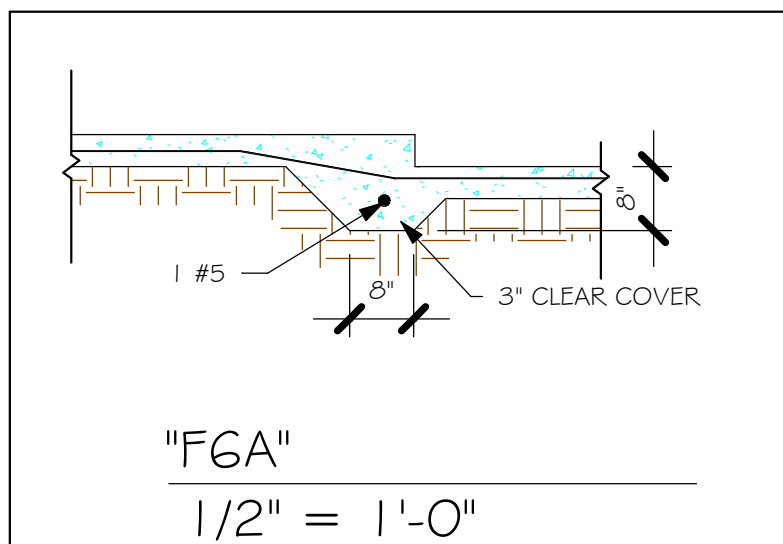
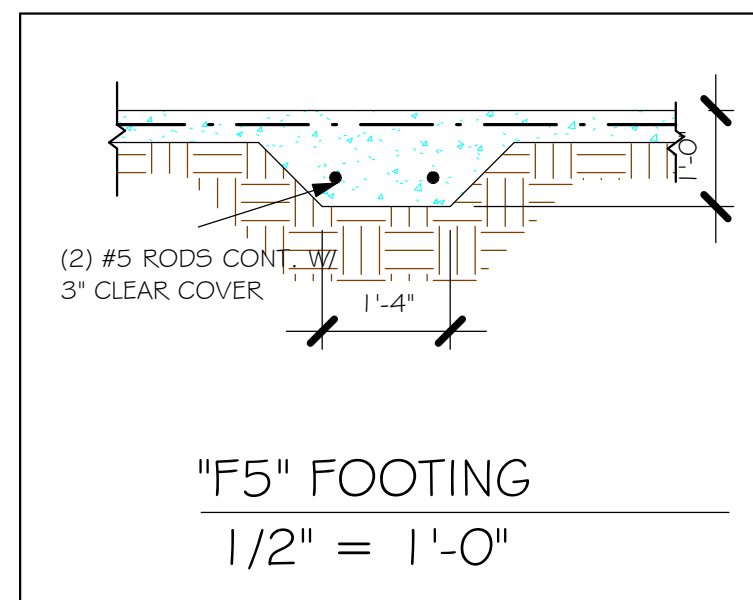
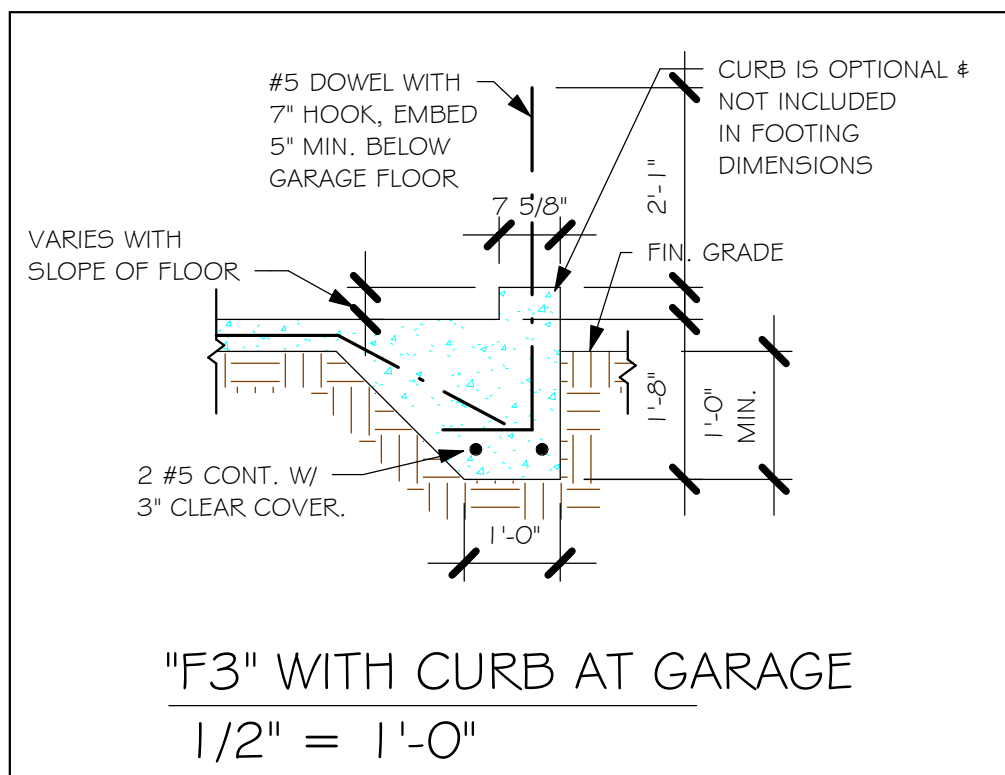
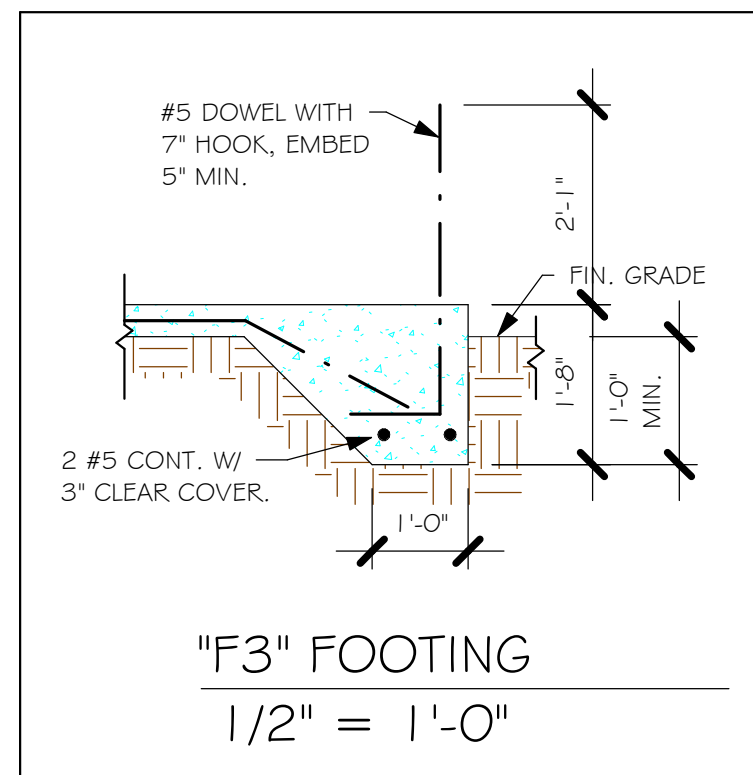




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CODES TO BE USED BY OTHER DESIGN PROFESSIONALS AND LICENSED CONTRACTORS:
2020 FLORIDA BUILDING CODE, 7TH EDITION: RESIDENTIAL; ACCESSIBILITY; ENERGY CONSERVATION;
PLUMBING; MECHANICAL; AND FUEL GAS.
ELECTRICAL IS CONTAINED BY REFERENCE WITHIN FBC RESIDENTIAL CHAPTER 34: NFPA 70-17
NATIONAL ELECTRICAL CODE.

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL
FLORIDA BUILDING CODE 2020 - 7TH EDITION



PAD FOOTING SCHEDULE						
TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REIN.		REMARKS
				LONG WAY	SHORT WAY	
(A)	2'-6"	2'-6"	1'-0"	3-#5	3-#5	-
(B)	3'-0"	3'-0"	1'-0"	4-#5	4-#5	-
(C)	3'-6"	3'-6"	1'-0"	4-#5	4-#5	-
(D)	4'-0"	4'-0"	1'-2"	5-#5	5-#5	-
(E)	5'-0"	5'-0"	1'-2"	6-#5	6-#5	-

WALL FOOTING SCHEDULE						
USE/REV	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCING	SHAPE
	F1	CONT.	1'-4"	0'-8"	2#5	
	F2	CONT.	1'-8"	0'-10"	2#5	
X	F3	CONT.	1'-0"	1'-8"	2#5	
	F4	CONT.	1'-4"	1'-8"	2#5	
X	F5	CONT.	1'-4"	1'-0"	2#5	
	F6	CONT.	1'-4"	1'-0"	2#5	
	F6A	CONT.	0'-8"	0'-8"	1#5	
	TE	CONT.	0'-8"	0'-8"	1#5	

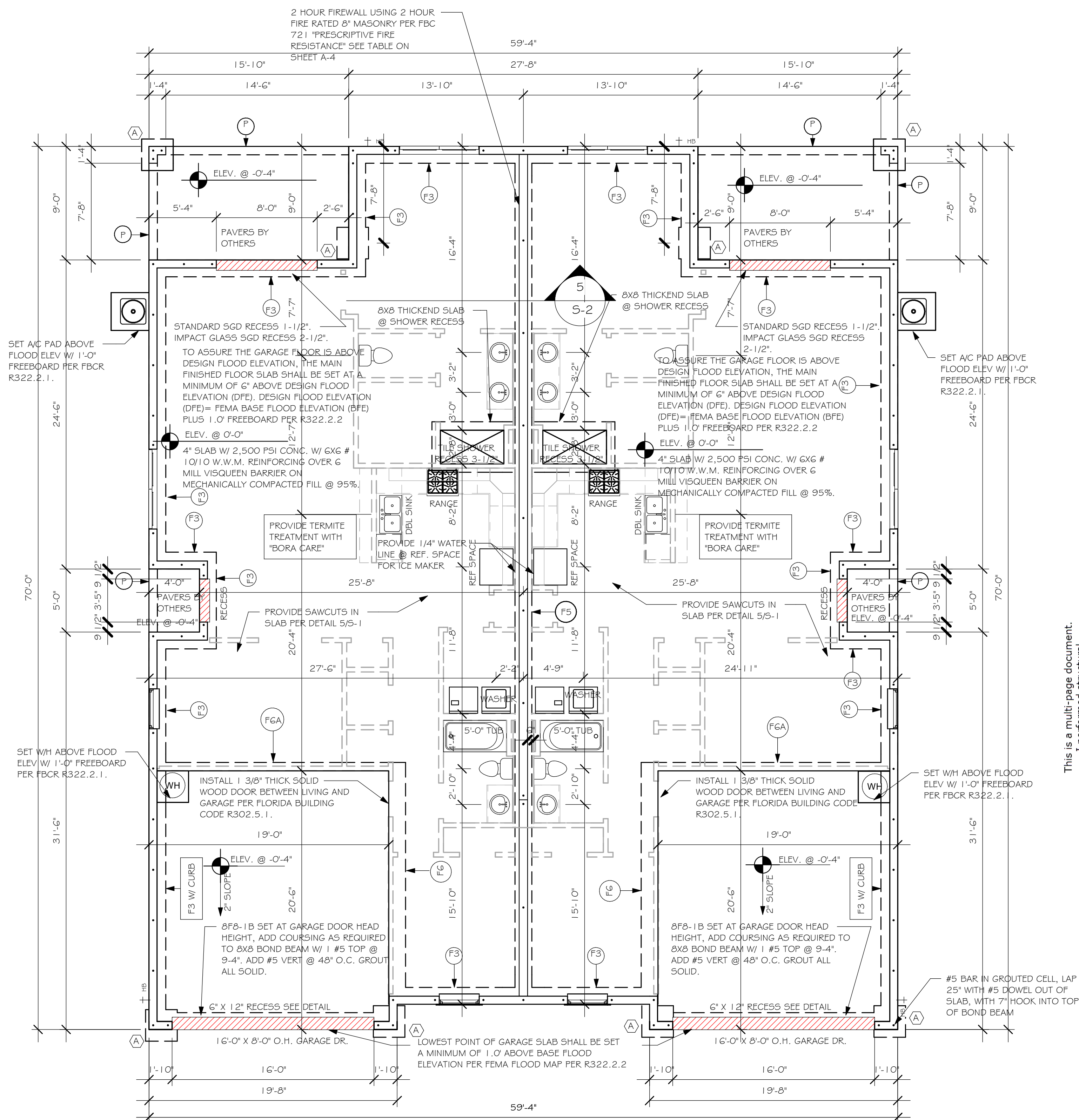
PROVIDE CORNER BARS IN FOOTING
PER DETAIL G/S-1

FOUNDATION PLAN

SCALE: 3/16" = 1'-0'

PLAN NOTES:

1. TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'-0"
2. "F#" DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.
3. "F#" DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.
4. PROVIDE #S VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.
5. ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.
6. FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
7. PROVIDE PRESSURE TREATED BUCKS AT WINDOWS/ DOORS PER DETAIL 7/S-1.



This is a multi-page document.
I performed structural engineering only on those pages which contain my seal, Derek Bergener, and company name Structural Systems.

This item has been digitally signed by Derek Bergener on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Signature and seal is for work performed by the Structural Engineer of Record (SER) related to Structural Engineering only. No work was performed by the SER in this project. The design was completed by the Structural Engineering firm of

by the Structural Engineer of Record. No work was performed by the SER in connection with the project.

Structural Engineer of Record
 was performed by the SEER in
 accordance with the AASHTO
 Manual for Bridge Inspection
 and Rating, 4th Edition, 1995.

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DESIGN IN ACCORDANCE WITH THE RESIDENTIAL
FLORIDA BUILDING CODE 2020 - 7TH EDITION

L:\Q-New Data\1 - MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TV\14095 LOT 138-139 1503 REV\14095 1503 F.pcd

DOOR SCHEDULE							
TYPE MARK	DESCRIPTION	COMMENTS	HEIGHT	WIDTH	ZONE 4	ZONE 5	QTY
1	1 6080 OHGD	GARAGE DOOR	8'-0"	16'-0"	+28.2/-31.5	+28.2/-31.5	2
2	2-4080 SL. GL. DR.	IMPACT	8'-0"	8'-0"	+29.4/-33.3	+29.4/-33.3	2
3	3080 ENTRY	DISTINCTION	8'-0"	3'-0"	+33.5/-36.3	+33.5/-44.8	2

WINDOW SCHEDULE							
MARK	DESCRIPTION	COMMENTS	HEIGHT	WIDTH	ZONE 4	ZONE 5	QTY
A	25 SH	IMPACT	5'-5"	3'-4"	+33.5/-36.3	+33.5/-44.8	4
B	2-25 SH	IMPACT	5'-3"	6'-4"	+33.5/-36.3	+33.5/-44.8	4

WIND PRESSURES PER ASCE7-16 160 MPH, EXPOSURE C AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. V_{asd}= 124 MPH

DOOR HEADERS		
6'-8" BI-FOLD	HEADER HEIGHT	82" A.F.F.
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.
8'-0" SWING	HEADER HEIGHT	98 1/2" A.F.F.

- PLAN NOTES
- VERIFY ALL ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS
 - PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT PER FLORIDA BUILDING CODE R 308.4.2.
 - PROVIDE SAFETY GLAZING AT BATH SHOWER PER FLORIDA BUILDING CODE R 308.4.5.
 - NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING SHALL NOT EXCEED 24" O.C. (NON BEARING WALLS ONLY)
 - PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE
 - KITCHEN KNEE WALL TO BE FRAMED W/ TOP @ 34 1/2" A.F.F.
 - INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS
 - WHERE DRYWALL CEILING IS APPLIED TO TRUSSES @ 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. R702.3.5
 - THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE & ATTIC BY NOT LESS THEN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED WITH NOT LESS THAN 5/8" TYPE "X" GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR - CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSOM BOARD OR EQUIVALENT
 - INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.5.1.
 - ALL WINDOWS INSTALLED 72" ABOVE GRADE MUST COMPLY WITH R312.2 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PREVENTION DEVICE
 - ALL CLOSET SHELVES TO BE 12". ALL PANTRY & LINEN TO BE (4)-16" SHELVES 18" O.F.F. W/ 15" INCREMENT.
 - ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE INSTALLED AT OR ABOVE FLOOD PLUS 1'-0" FREEBOARD.

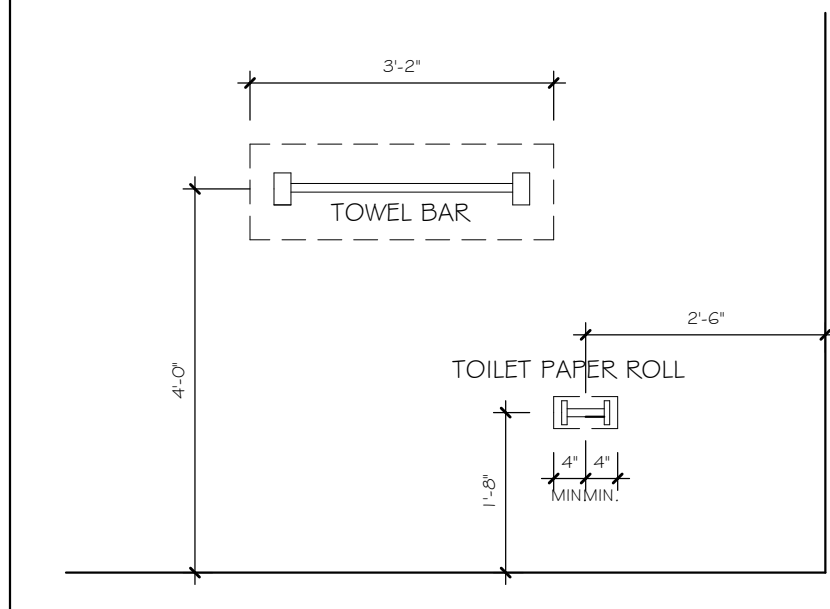
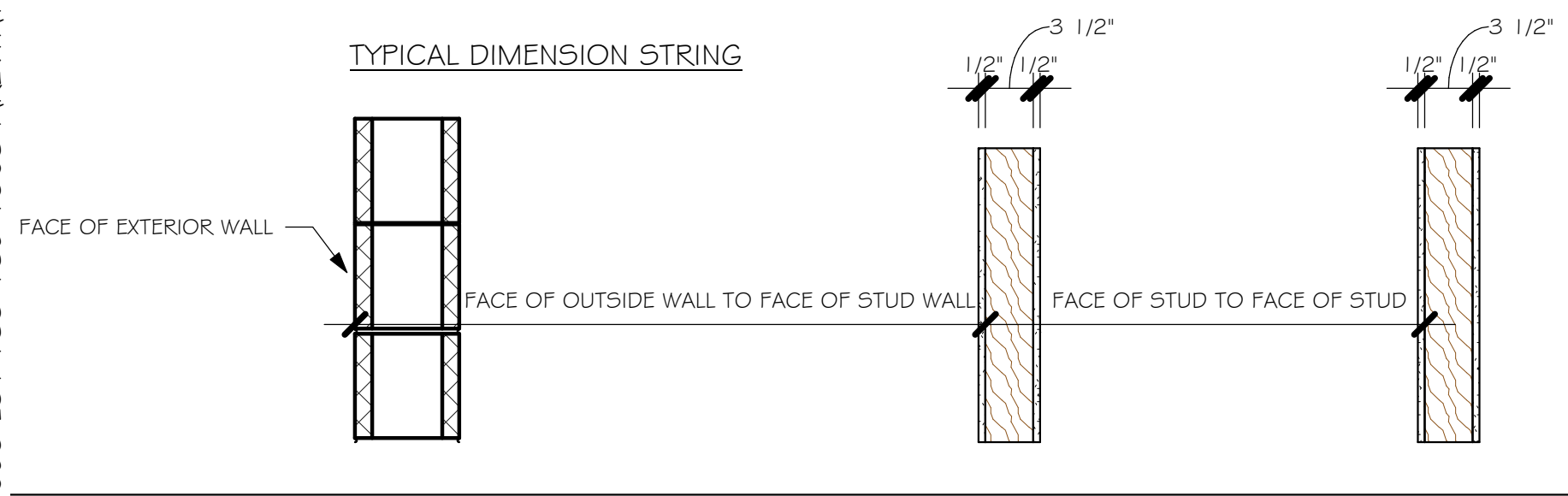
CABINET BACKING		
KITCHEN	UPPER TOP @ 84"	BASE TOP @ 35"
MASTER BATH	UPPER	BASE TOP @ 35"
GUEST BATH	UPPER	BASE TOP @ 31"
LAUNDRY ROOM	UPPER TOP @ 84"	BASE

INTERIOR DOOR SCHEDULE		
MARK	DOOR WIDTH	NOTES
1	3'-0"	P.K. = POCKET DOOR
2	2'-8"	B.F. = BI-FOLD DOOR
3	2'-6"	B.P. = BI-PASS DOOR
4	2'-4"	
5	2'-0"	L.V. = LOUVERED DOOR
6	1'-8"	
7	1'-6"	
8	2'-11"	

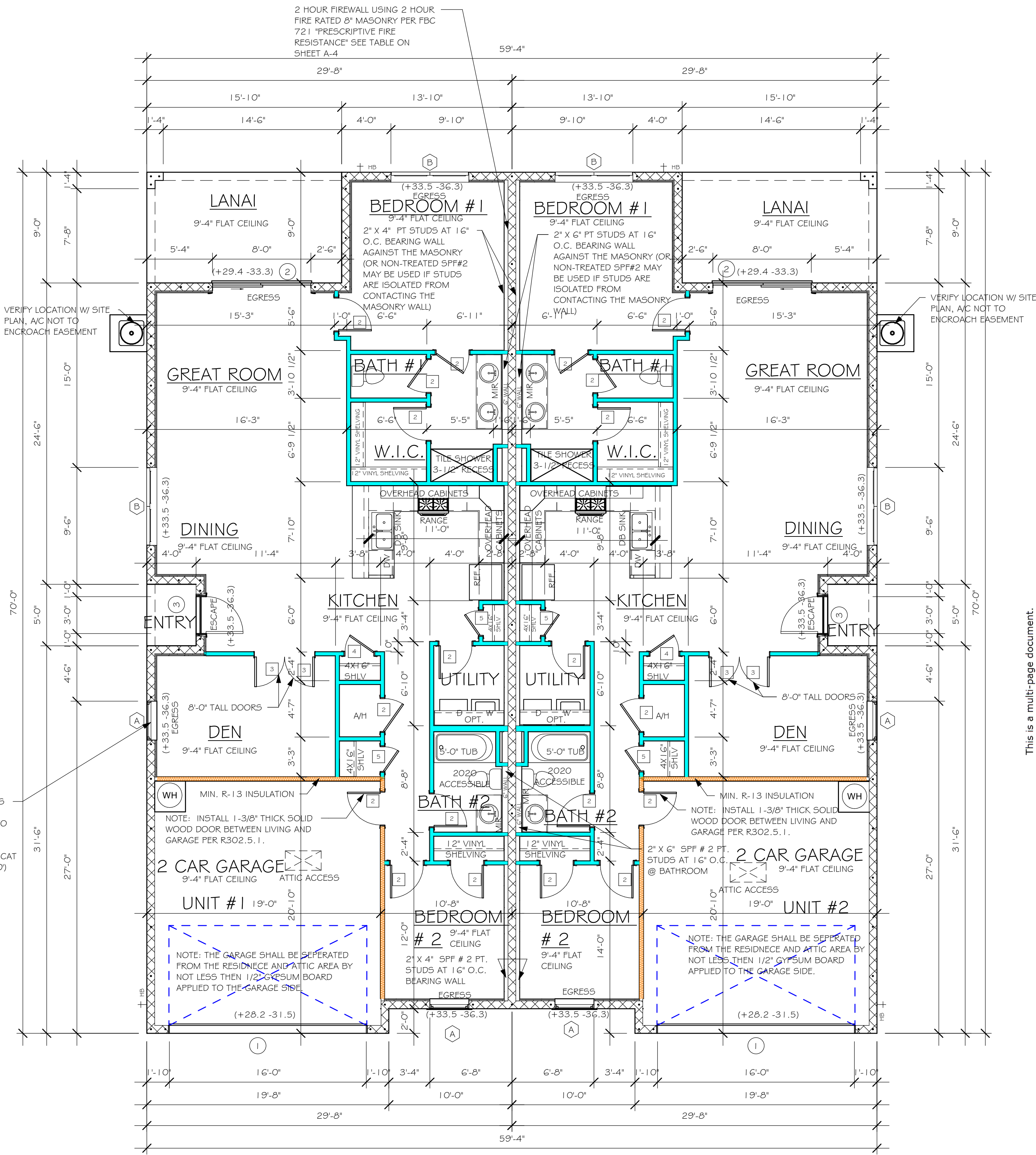
SQUARE FOOTAGE UNIT #1	
LIVING AREA	1,503
GARAGE AREA	391
LANAI AREA	143
FRONT PORCH/ ENTRY AREA	20
TOTAL SQUARE FOOTAGE	2,057

SQUARE FOOTAGE UNIT #2	
LIVING AREA	1,503
GARAGE AREA	391
LANAI AREA	143
FRONT PORCH/ ENTRY AREA	20
TOTAL SQUARE FOOTAGE	2,057

BATHROOM NOTES	
TB TOWEL BAR	ALL TUB DECKS @ 21" A.F.F
TP TOILET PAPER	ALL BLOCKING TO BE PT IN SHOWERS

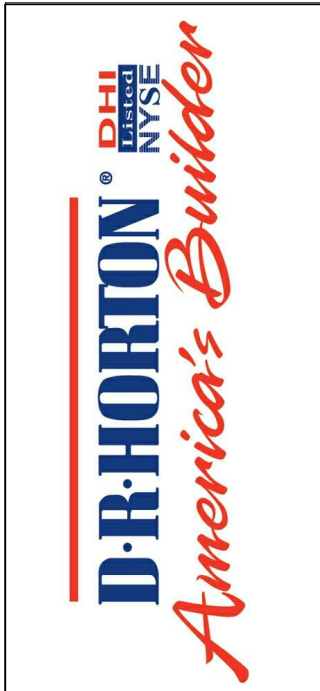


(+25.6, -27.7) WIND PRESSURES PER ASCE7-16, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (V_{asd}= 132 MPH, RISK CAT II, ENCLOSED, k_d=0.85, H= 15.0')



FLOOR PLAN
3/16" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION



Gulf Coast
Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47th ST. CAPE CORAL, FL 33904

STRUCTURAL ENGINEER
Derek Bergener
No. 58552
STATE OF FLORIDA
Professional Engineer
Exp. 12/31/2024
D.R.H. # 579820215-216

LOT: 138-139
SUBDIVISION: PALENCIA TV's
ADDRESS: 317-321 IBIZA LOOP
D.R.H. #: 579820215-216

MODEL 1503
VILLA F
GCD JOB # 14095

DATE: 01/13/21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: FLOOR
SCALE: As indicated

A-3

L:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA T\va\14095 LOT 138-139 1503 REV\14095 1503 F.mxd

TRUSS STRAPPING TO MASONRY		
MAX TRUSS UPLIFT (LBS)	STRAP/ANCHOR Valid lengths x/y/w	FASTENER
INSTALL METAL G AT ALL TRUSSES TO 1450 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN.	(1) 1450 (1 PLY) 1810 (1 PLY) 1875 (1 PLY) 1920 (1 PLY) 2120 (1 PLY) 1795 (2 OR 3 PLY) 2365 (2 OR 3 PLY) 3965 /DF /SP (2 PLY) 3000 /DF /SP (1 PLY 2x4) 4455 /DF /SP (1 PLY 2x4) 4235 /DF /SP (2 PLY 2x4) 4555 /DF /SP (1 PLY 2x4) 4670 /DF /SP (2 PLY 2x4) 5445 /DF /SP (2 PLY 2x4) 10690 /DF /SP (2 PLY) 10790 /SYP (3PLY)	(1) HETA1 G/18/20 (1) HETA1 G/20 (2) HETA1 G/18/20 (2) HETA1 G/20 (2) HETA1 G/18/20 (2) HETA1 G/20 MGT HTT4 HTT4 HTT5 HTT5 HTT5KT (1)HGT - 2 (1)HGT - 3
NOTES:	1. PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE AND SUITABLE FOR THE GEOMETRY. EMBED STRAP ON CENTERLINE OF WALL. 2. ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN. 3. CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD. 4. WHERE EMBEDDED STRAPS ARE MISSING, OR MIS-LOCATED, INSTALL RETROFIT STRAP PER 10/5-3. PER UPLIFT IN TRUSS ENGINEERING.	

SIMPSON CATALOG C-C- 2019

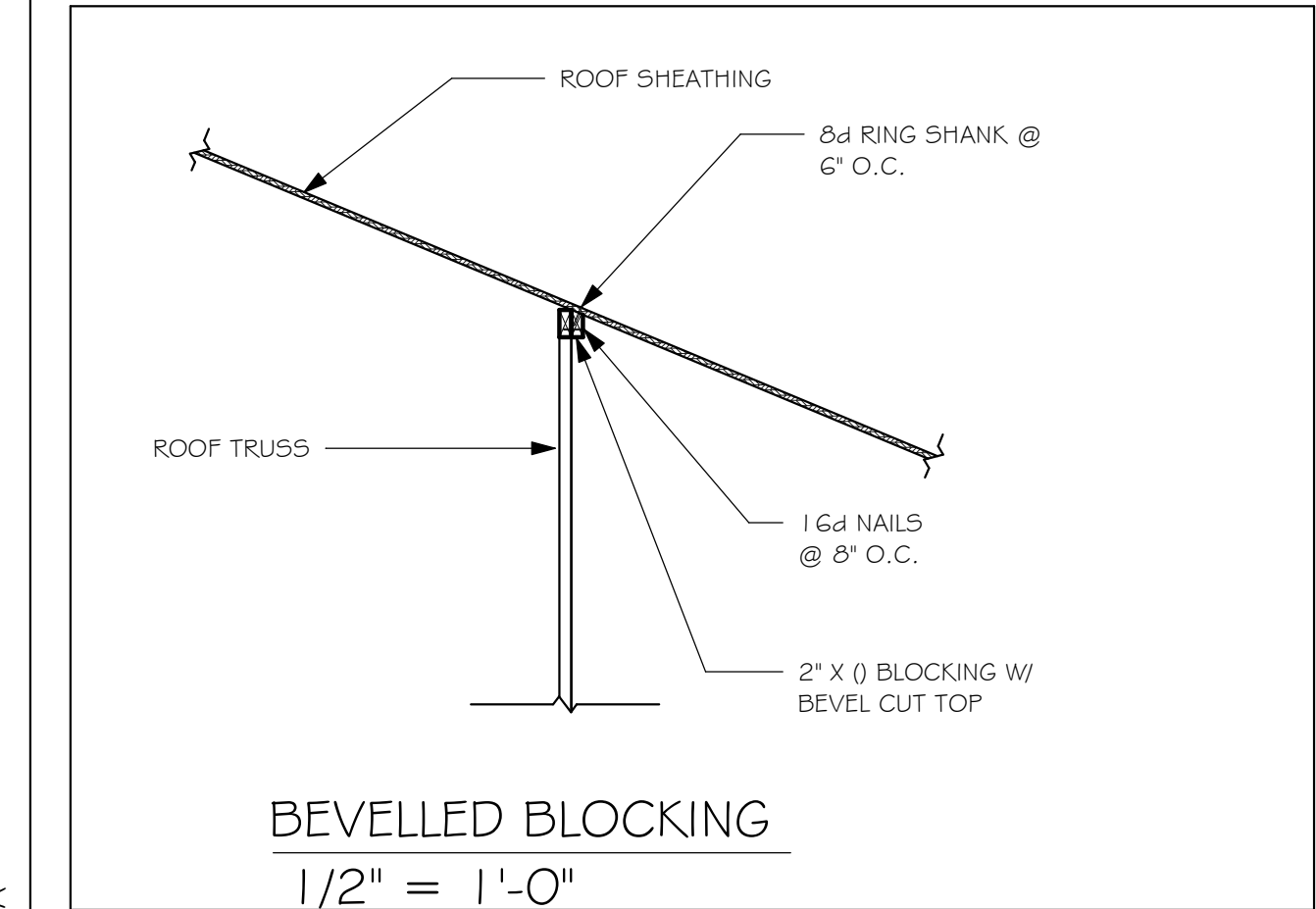
TRUSS STRAPPING TO STUDWALL/ WOOD BEAM		
MAX TRUSS UPLIFT (LBS)	STRAP(S) Valid lengths x/y/w	FASTENER
850 1700 2550	(1) MTS1 G/20/30 (2) MTS1 G/20/30 (3) MTS1 G/20/30	(14) 0.148x1-1/2" or 3" EACH STRAP
1125 2250 3375 4500	(1) HTS20/24/30 (2) HTS20/24/30 (3) HTS20/24/30 (4) HTS20/24/30	(24) 0.148x1-1/2" OR (20) 0.148x3" EACH STRAP
NOTES: 1. PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE. 2. ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN. 3. 1-1/2" NAIL SHALL BE USED IN 1 PLY LUMBER, 2 PLY LUMBER IS REQUIRED FOR 3" NAILS. 4. CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.		

SIMPSON CATALOG C-C- 2019

MODEL 1503: ATTIC VENTILATION FBCR R806

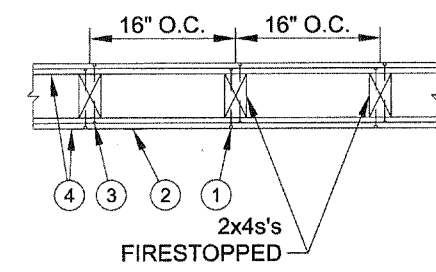
COORDINATE VENTING REQUIREMENTS WITH ENERGY CALCULATIONS

AREAS (SQ. FT.)			SOFFIT ONLY (1/150) (NO ROOF VENTS)		WITH ROOF VENTS (1/300) (R.V.)	
ATTIC VENTILATION REQUIRED (ATTIC AREA/150= 14.55 SQ. FT.)			ATTIC VENTILATION REQUIRED (ATTIC AREA/300 = 7.28 SQ. FT.)			
MARK	ATTIC	SOFFIT	REQ'D AIR FLOW OF SOFFIT	QUAD 4 SOFFIT HAS	QUANTITY OF ROOF VENTS	MIN AIR FLOW OF SOFFIT
①	2183.0 SQ. FT.	148.0 SQ. FT.	9.83%	6.15%	4	2.7%
"SOFFIT ONLY" DOES NOT QUALIFY					ROOF VENTS ARE REQUIRED	
SOFFIT MODEL ACM QUAD 4, FULL VENT, NARROW PATTERN, 8.15% FREE AIR FLOW THE ACM QUAD 4 IS ONLY AN EXAMPLE OF WHAT CAN WORK. CONTRACTOR MAY INSTALL ANY BRAND OF VENTED SOFFIT THAT PROVIDES AT LEAST THE REQ'D AIR FLOW SHOWN ABOVE, AND MEETS WIND PRESSURES PER FBC R704.					ROOF VENT MODEL 32" BASE LOMANCO 770-D 0.97 SQ. FT. FREE AIR	



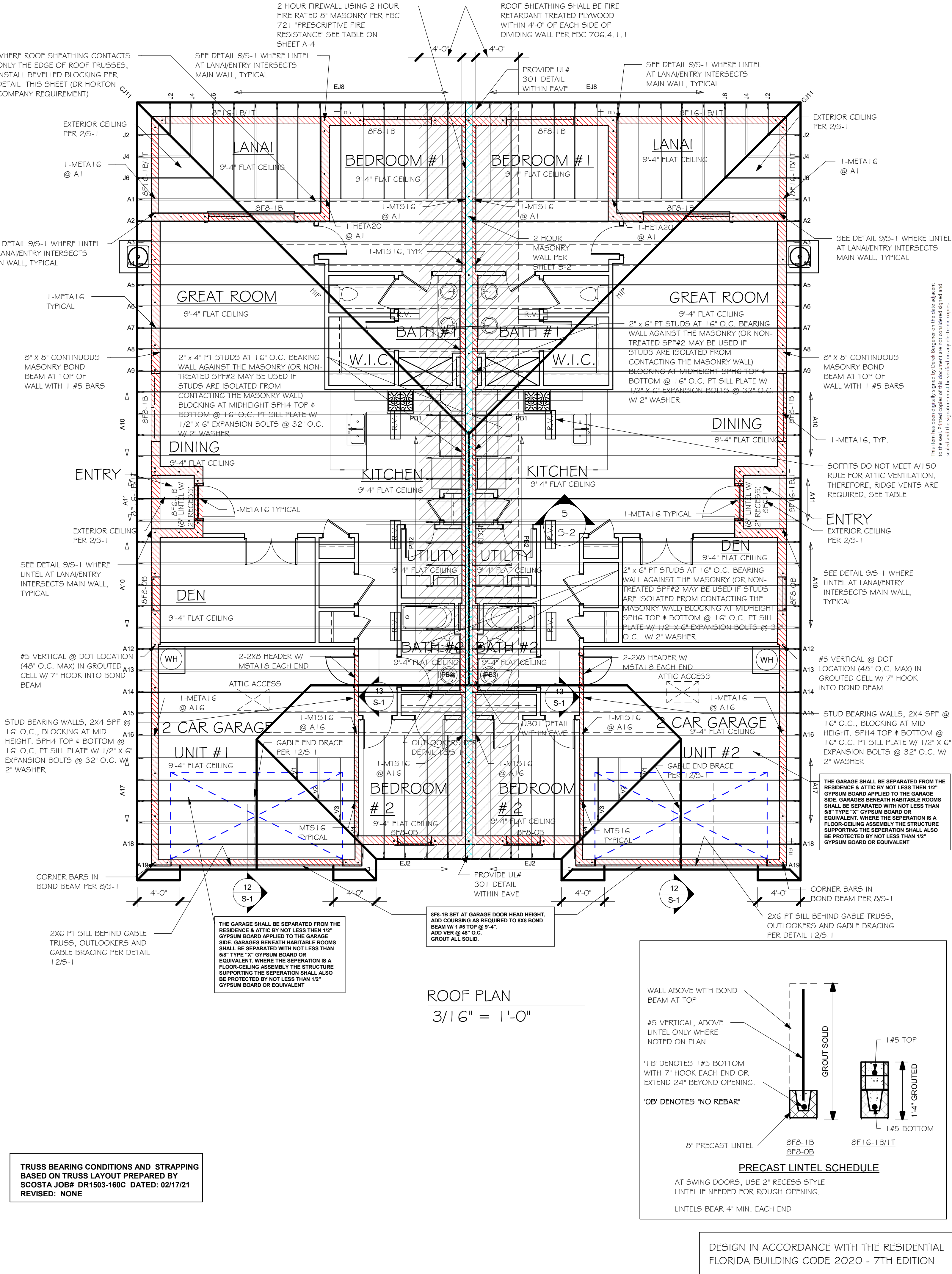
- PLAN NOTES:
- ROOF TRUSS BEARING ELEVATION VARIES, SEE LEGEND.
 - ROOF FRAMING SHALL BE WOOD TRUSSES DESIGNED BY A DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEET S-1
 - PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS SHEET.
 - FOR NAILING OF ROOF DECK, SEE 1 AND 2 ON S-1.
 - 8F8-1B etc., DENOTES PRECAST LINTEL ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.
 - AT TRUSS BEARING, PROVIDE 8x8 MASONRY BOND BEAM W/ 1 #5 CONTINUOUS, SEE DETAIL 1/5-1.

2 HOUR FIREWALL USING 8" MASONRY PER FBC 721 "PRESCRIPTIVE FIRE RESISTANCE"		
F.B.C. TABLE 722.3.2		
MINIMUM EQUIVALENT THICKNESS' (IN) BEARING OR NON-BEARING CONCRETE MASONRY WALLS		
TYPE OF AGGREGATE	FIRE - RESISTANCE RATING (HOURS)	
	2	HR
1. PUMICE OR EXPANDED SLAG	3.2"	
2. EXPANDED SHALE, CLAY OR SLATE	3.6"	
3. LIMESTONE, GINDERS, OR UNEXPANDED SLAG	4.0"	
4. CALCAREOUS OR SILICEOUS GRAVEL	4.2"	
FOR THE 2 HOUR FIREWALL, PURCHASE ONLY BLOCK WITH 2 HOUR FIRE RATED MARKING, LABEL OR DOCUMENTATION.		

FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)		
Design No. U301	Bearing Wall Rating 2 HR.	Finish Rating 66 Min.
1. Nailheads - Exposed or covered with joint finisher. 2. Joints - Exposed or covered with flatter tape and joint finisher. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. 3. Nails - 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads. 4. Gypsum Board - 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6" o.c. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8" o.c. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. When used in widths other than 48 in., gypsum board to be installed horizontally. When Steel Framing Members* (Item 6) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max. 24 in. o.c.; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max. 12 in. o.c. AMERICAN GYPSUM CO. - Types AG-C, AGX-11, AGX-C BEULING NEW BUILDING MATERIALS CO LTD - Type DBX-1 CERTAINTED GYPSUM, INC. - Types 1, FRPC, EGRG, ProRoc Type C or ProRoc Type X CERTAINTED GYPSUM CANADA, INC. - ProRoc Type C, ProRoc Type X, ProRoc Type Abuse-Resistant. CANADIAN GYPSUM COMPANY - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX G-P GYPSUM CORP. SUB OF GEORGIA-PACIFIC CORP. - Types 5, 9, C, DAP, DD, DA, DGG, DS, GPFS6, LAFARGE NORTH AMERICA INC - Types LGFC-C, LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC6A NATIONAL GYPSUM CO - Types FSK, FSK-G, FSK-G, FSW, FSW-3, FSW-C, FSW-G PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC - Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9 or PG-C TEMPLE-INLAND FOREST PRODUCTS CORP. - Type TG-C SIAM GYPSUM INDUSTRY (SARABURI) CO LTD - Type EX-1 STANDARD GYPSUM I L C - Types SGC, SSC-C or SSC-G UNITED STATES GYPSUM CO - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX USG MEXICO S A DE C V - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX		
4A. Gypsum Board* - (As an alternate to Item 4) - Nom. 3/4 in. thick, installed as described in Item 4. CANADIAN GYPSUM COMPANY - Types AR, IP-AR UNITED STATES GYPSUM CO - Types AR, IP-AR USG MEXICO S A DE C V - Types AR, IP-AR 4B. Gypsum Board* - (As an alternate to Items 4 and 4A) - 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required. CANADIAN GYPSUM COMPANY - Types SHX UNITED STATES GYPSUM CO - Types SHX USG MEXICO S A DE C V - Types SHX 5. Molded Plastic* - Not shown. Optional - Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details. ASSOCIATED MATERIALS INC ALSIDIE, DIV OF GENTER BUILDING PRODUCTS LTD HEARTLAND BUILDING PRODUCTS INC VTYEC CORP NEBRASKA PLASTICS INC 6. Steel Framing Members* - (Optional, Not shown)* - Furring channels and resilient sound isolation clip as described below: A. Furring Channels - Formed of No. 25 MSG galv. steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. o.c. perpendicular to studs. Channels secured to studs as described in Item 5. Ends of adjoining channels are overlapped 6 in., and tied together with double strand of No. 18 SWG galv. steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 furring screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4. B. Steel Framing Members* - Resilient sound isolation clip used to attach furring channels (Item 6A) to studs. Clips spaced 48 in. o.c. and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.		
PAC INTERNATIONAL INC. Type RSIC-1.		

*Bearing the UL Classification Mark

TRUSS BEARING CONDITIONS AND STRAPPING
BASED ON TRUSS LAYOUT PREPARED BY
SCOSTA JOB# DR1503-160C DATED: 02/17/21
REVISED: NONE



This item has been digitally signed by Derek Begener on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

STRUCTURAL ENGINEERING
SYSTEMS
OF NORTH FLORIDA
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This is a multi-page document.
I performed structural engineering only on those pages which contain my seal, Derek Begener, and company name Structural Systems.

DEREK BEGENER
No. 58552
STATE OF FLORIDA
PROFESSIONAL ENGINEER

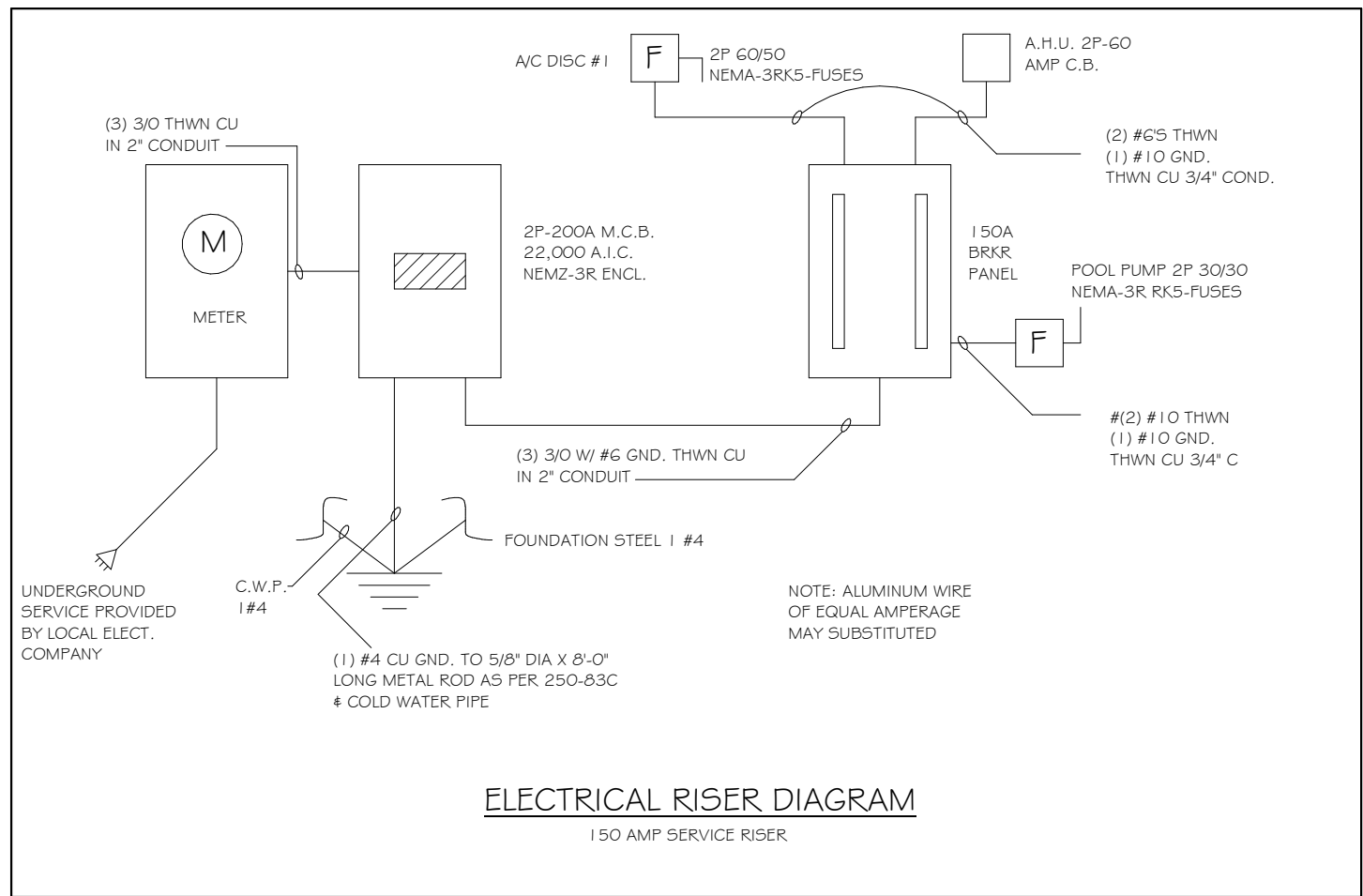
LOT: 138-139
SUBDIVISION: PALENCIA T
ADDRESS: 317-321 IBIZA LANE
D.R.H. #: 579820215-216
GCD JOB # 14095

MODEL 1503
VILLA F

DATE: 01/13/21
DRAWN BY: JSL
CHECKED BY: JWC
REVISED:
PLAN: ROOF
SCALE: As indicated
A-4

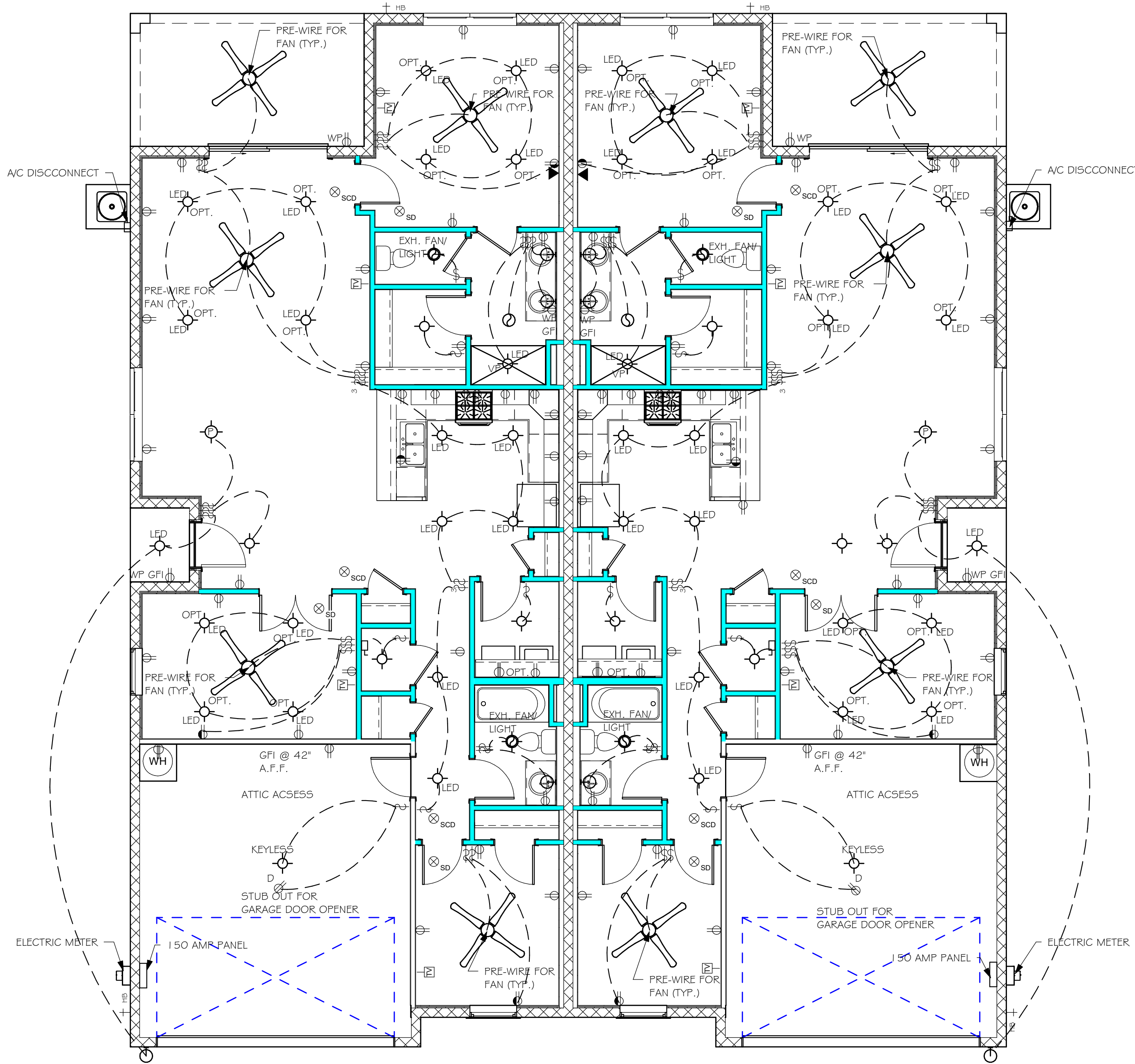
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TVs\14095 LOT 138-139 1503 REV\14095 1503 F.pdf

ELECTRICAL LEGEND	
	ELECTRICAL METER
	ELECTRICAL PANEL
	120 V JUNCTION BOX
	SINGLE RECEPTACLE OUTLET
	220 V RECEPTACLE OUTLET
	4-PLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX OUTLET
	DUPLEX RECEPTACLE AT ELEV. A.F.F.
	DUPLEX RECEPTACLE - ABOVE COUNTER
	SINGLE POLE SWITCH
	3 WAY SWITCH
	DIMMER SWITCH
	MOTION SENSOR SWITCH
	AC/DC SMOKE DETECTOR TO BE INTERCONNECTED ANY RESIDENT HAVING A FOSSIL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE ALARM INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PERPOSES, PER RULE 9B-3.04.72 SD (SMOKE DETECTOR) SCD (CARBON MONOXIDE/ SMOKE DETECTOR)
	TELEPHONE OUTLET
	TELEVISION RECEPTION OUTLET
	SURFACE MOUNTED CEILING LIGHT
	FLUSH MOUNTED LIGHT
	WALL MTD. BRACKET LIGHT
	DUPLEX FLOOD LIGHT
	EXHAUST FAN
	TRACK MTD. LIGHTS
	AC DISCONNECT
	PUSH BUTTON (PB) / DOOR BELL (DB)
	INTERCOM
	KEYPAD
	4' FLUORESCENT LIGHT
	2' UNDER COUNTER LIGHT
NOTE: NOT ALL SYMBOLS ARE USED FOR THIS PROJECT.	
ELECTRICAL NOTES: ARC-FAULT CIRCUIT-INTERRUPTERS AND TAMPER RESISTANT RECEPTACLES SHALL BE INSTALLED IN DWELLING UNITS PER N.E.C. 210.12 AND 406.11 ALL ELECTRIC, ELECTRICAL EQUIPMENT AND APPLIANCES TO BE SET AT OR ABOVE BASIC FLOOD ELEVATION PLUS 1'-0" FREEBOARD. ALL OUTLETS IN WET AREAS AND ALL EXTERIOR OUTLETS TO BE GFI'S. INSTALL PHONE AND T.V. PER CONTRACT. INSTALL ALL ELECTRICAL PER NEC 2017.	



AIR CONDITIONING COORDINATION REQUIRED.
PRIOR TO ORDERING ROOF TRUSSES, THE CONTRACTOR SHALL WORK WITH THE AIR CONDITIONING SUB CONTRACTOR TO DESIGN/PLAN AND LAYOUT THE LOCATION OF AIR HANDLING EQUIPMENT, AIR DUCT SIZE AND LOCATION AND COORDINATE THAT DESIGN WITH THE TRUSSES FOR SPACE, CONNECTIVITY, AND POSITION REQUIREMENTS. THE CONTRACTOR MUST ADVISE THE TRUSS COMPANY PRIOR TO ANY CONSTRUCTION OF TRUSSES OF THE AIR CONDITIONING/HANDLING EQUIPMENT'S SIZES AND WEIGHT AND DUCT LAYOUT CONCERNS OR REQUIREMENTS THAT MAY HAVE THE POTENTIAL TO CHANGE OR MODIFY THE TRUSSES TO ACCOMMODATE THE SAME.
THE CONTRACTOR SHALL COORDINATE CONDENSATION DISCHARGE LINE LOCATION, AND ELECTRICAL SERVICE TO AIR EQUIPMENT, AND PROVIDE ANY LOCAL DISCONNECTS, LIGHTS AND SERVICE PLATFORMS THAT MAY BE REQUIRED.

ELECTRICAL NOTES FOR FIRE RATED WALLS
ELECTRICAL OUTLETS PLACED IN FIRE RATED WALLS SHALL BE IN CONFORMANCE WITH THE UNDERWRITERS LABORATORIES, INC., FIRE RESISTANCE DIRECTORY, CURRENT EDITION, THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING SPECIFIC ITEMS:
A) INDIVIDUAL OUTLET/SWITCH BOXES SHALL NOT EXCEED (16) SQUARE INCHES IN AREA.
B) AGGREGATE AREA OF OUTLET/SWITCH BOXES SHALL NOT EXCEED (100) SQUARE INCHES WITHIN (100) SQUARE FEET OF WALL AREA.
C) OUTLET/SWITCH BOXES LOCATED ON OPPOSITE SIDE OF THE SAME WALL SHALL BE SEPERATED BY A MINIMUM OF (24) INCHES.
D) ALL OUTLET/SWITCH BOXES SHALL BE SECURELY ATTACHED TO THE STUDS AND THE OPENING IN THE WALL BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE WALLBOARD DOES NOT EXCEED 1/8 INCH.



ELECTRICAL PLAN
3/16" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL
FLORIDA BUILDING CODE 2020 - 7TH EDITION

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RESIDENTIAL SPECIFICATIONS

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.
- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
- FOR REQUIRED SOIL BEARING, SEE STRUCTURAL. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATION AND HOUSE PLANS, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS, CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL SPECIFIED FASTENERS MAY ONLY BE SUBSTITUTED IF APPROVED BY THE ENGINEER IN WRITING, THE INSTALLATION OF THE FASTENERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. SIMPSON FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH THE SAME QUANTITY AND EQUIVALENT STRENGTH PRODUCT.
ALL BOLTS, NUTS, WASHERS, STRAPS AND FASTENERS INCLUDING NAILS, SHALL BE HOT MOPED DIPPED GALVANIZED OR STAINLESS STEEL CONTINUOUS ANCHORAGE SHALL BE PROVIDED BETWEEN ALL TRUSSES, WALL SECTIONS, BEAMS, POSTS AND FOOTINGS WITH USE OF STRAPS AND CONNECTORS AS SPECIFIED HEREIN.
- TREATED WOOD REQUIREMENTS:-
ALL TREATED WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY.
ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, OR PRESSURE TREATED.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS.
- CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24" O.C. SHALL BE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5
- LANAI CEILINGS & COVERED ENTRY CEILINGS
1X4 STRIPPING @ 16" O.C. FASTENED WITH 2-8d NAILS TO EACH TRUSS. 5/8" EXTERIOR GYP. BOARD CEILING FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" O.C. EDGE AND FIELD.

2

DOOR AND WINDOW ANCHORAGE

ANCHORAGE REQUIREMENTS- ALL PASS AND SLIDING GLASS DOORS AND ALL WINDOW ASSEMBLIES SHALL BE ANCHORED TO THE MAIN WIND FORCE RESISTING SYSTEM IN A MANNER SPECIFIED BY THE PUBLISHED MANUFACTURER'S LITERATURE. THERE SHALL BE NO SUBSTITUTION OF ALTERNATE FASTENINGS UNLESS PROVIDED BY THE MANUFACTURER AND APPROVED BY THE BUILDING DESIGN ENGINEER.

MASONRY OPENING

WHERE WINDOW FRAME IS DESIGN TO FASTEN WITH SCREWS THROUGH THE FRAME AND INTO THE MASONRY, THE BUCK MATERIAL IS SIMPLY A SPACER. THE BUCK MAY BE FASTENED WITH THE T NAILS OR ANY SUITABLE FASTENER TO TACK IT INTO POSITION PRIOR TO WINDOW INSTALLATION. FASTEN WINDOW FRAME PER MFR INSTRUCTIONS. A WINDOW FASTENER SHALL PENETRATE MASONRY BY 2 1/4" MIN.

WHERE WINDOW FRAME IS DESIGNED TO FASTEN ONLY TO THE WOOD BUCK (IE. FLANGED FRAME WITH WOOD SCREWS) THE BUCKS SHALL BE 2X WOOD WITH STRUCTURAL FASTENING TO THE MASONRY WITH 1/4 X 3 3/4 MASONRY SCREWS @ 24" OC AND 6" FROM EACH END.

WOOD FRAMED OPENING- ALL DOORS AND WINDOWS SHALL BE INSTALLED ACCORDING TO THE PUBLISHED MANUFACTURER'S LITERATURE OF THE ASSEMBLY BEING INSTALLED TO THE ROUGH SUBSTRATE OPENING. SHIMS SHALL BE MADE OF MATERIALS CAPABLE OF RESISTING THE APPLIED LOADS AND SHALL BE LOCATED NEAR EACH FRAME FASTENER TO MINIMIZE DISTORTION OF THE FRAME AS THE FASTENERS ARE TIGHTENED.

3

GENERAL ROOF ASSEMBLY

ROOF SHEATHING FBCR TABLE R803.2.2

SHALL BE 19/32 APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20 OR BETTER. INSTALL PANELS WITH LONG DIMENSION PLACED PERPENDICULAR TO TRUSSES. A 1/8" SPACE BETWEEN ADJACENT SHEETS SHALL BE MAINTAINED. INSTALL "H" CLIPS AT UNSUPPORTED PANEL EDGES. FOR FASTENING, SEE STRUCTURAL.

FLASHING

FLASHING SHALL BE ALUMINUM, ALUMINUM ZINC COATED STEEL 0.0179" THICK, 26 GAUGE A250 ALUM ZINC, OR GALVANIZED STEEL 0.0179" THICK, 26 GAUGE ZINC COATED G90. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURER'S PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R905.2.8 (1 TO 5).

DRIP EDGE

DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLES ROOFS, LAPPED A MINIMUM OF 3" @ JOINTS. THE OUTSIDE EDGE SHALL EXTEND A MINIMUM OF 1/2" BELOW SHEATHING AND THE INSIDE EDGE SHALL EXTEND BACK A MINIMUM OF 2". DRIP EDGE SHALL BE FASTENED AT NO MORE THAN 4" CENTERS, THERE SHALL BE A MINIMUM OF 4" WIDTH OF ROOF CEMENT INSTALLED OVER THE DRIP EDGE FLANGE.

4

ASPHALT SHINGLE ROOF SPECS

SHINGLES

30# FELT SHALL BE INSTALLED UNDER ASPHALT SHINGLES. ALL ASPHALT SHINGLES SHALL HAVE SELF-SEALING STRIPS OR BE INTERLOCKING AND COMPLY WITH ASTM D 225 OR D 3462. FOR FASTENING, SEE STRUCTURAL. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR INSTALLATION IN THE GIVEN FLORIDA WIND ZONE, AS DETERMINED BY ASTM D 3161.

5

CLAY AND CONCRETE ROOF TILE SPECS

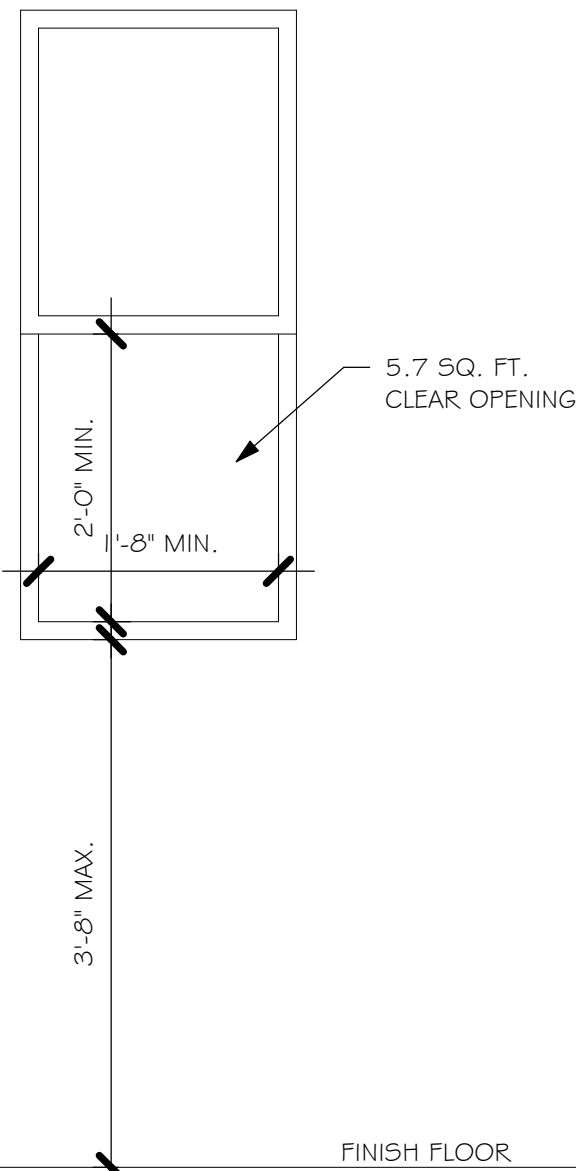
INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF.

THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R905.3 F.B.C.

MARKING: EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURER'S IDENTIFICATION MARK.

APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDED BUT NOT BE LIMITED TO THE FOLLOWING:

- TILE PLACEMENT AND SPACING.
- ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
 - AMOUNT AND PLACEMENT OF MORTAR
 - AMOUNT AND PLACEMENT OF ADHESIVE
- C. TYPE, NUMBER, SIZE AND LENGTH OF FASTENERS AND CLIPS.
- UNDERLAYMENT.
- SLOPE REQUIREMENT.



R310.2.1 MINIMUM OPENING AREA- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET (0.530 m²).

EXCEPTION- GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET (0.465 m²).

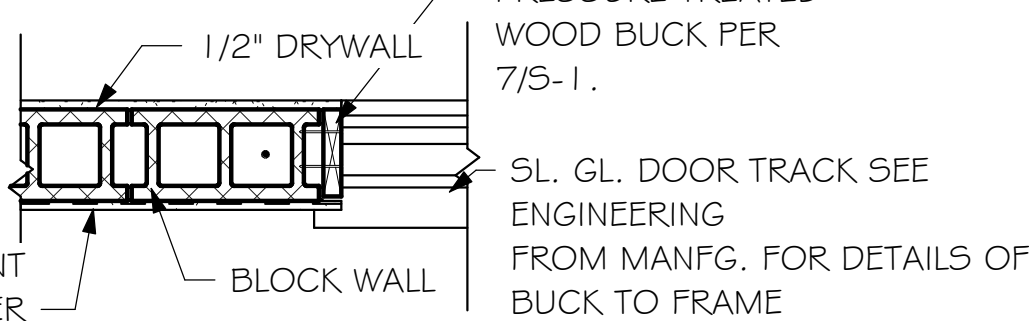
R310.2.1 MINIMUM OPENING HEIGHT- THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES (610mm).

R310.2.1 MINIMUM OPENING WIDTH- THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES (508mm).

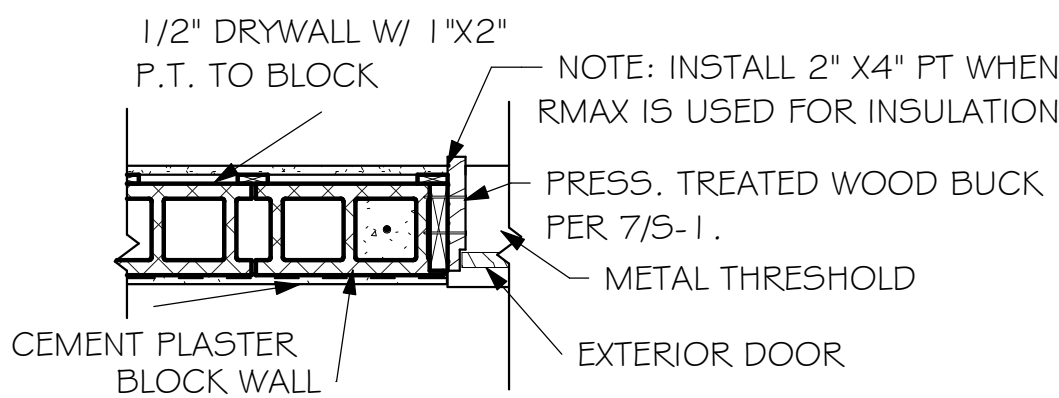
R310.1.1 OPERATIONAL CONSTRAINTS- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS.

R310.2.3 WINDOW WELLS- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET (0.84 m²), WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES (914mm). THE AREA OF THE WINDOW WELL SHALL ALLOW THE EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED.

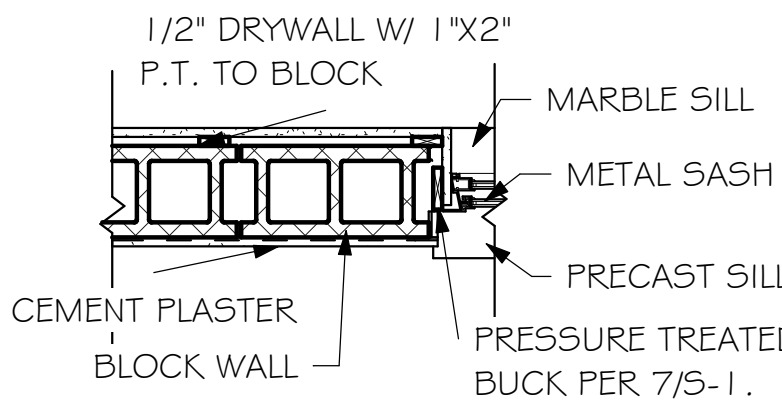
MINIMUM EGRESS WINDOW DETAIL



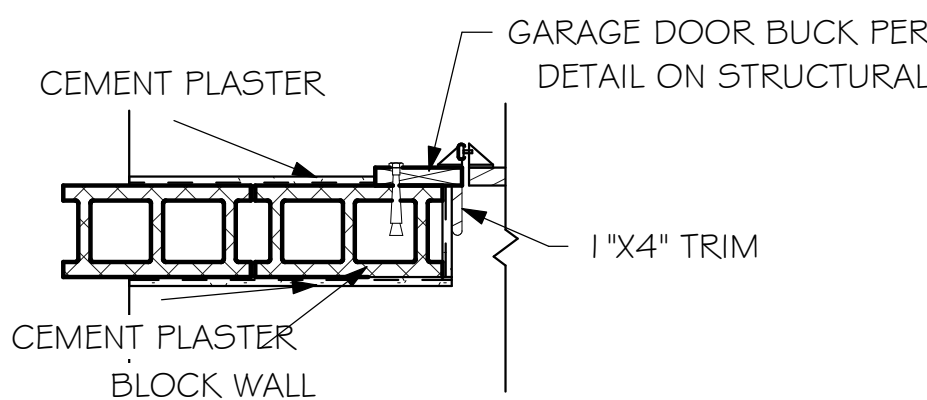
SL. GL. DR. JAM TO BLOCK DETAIL



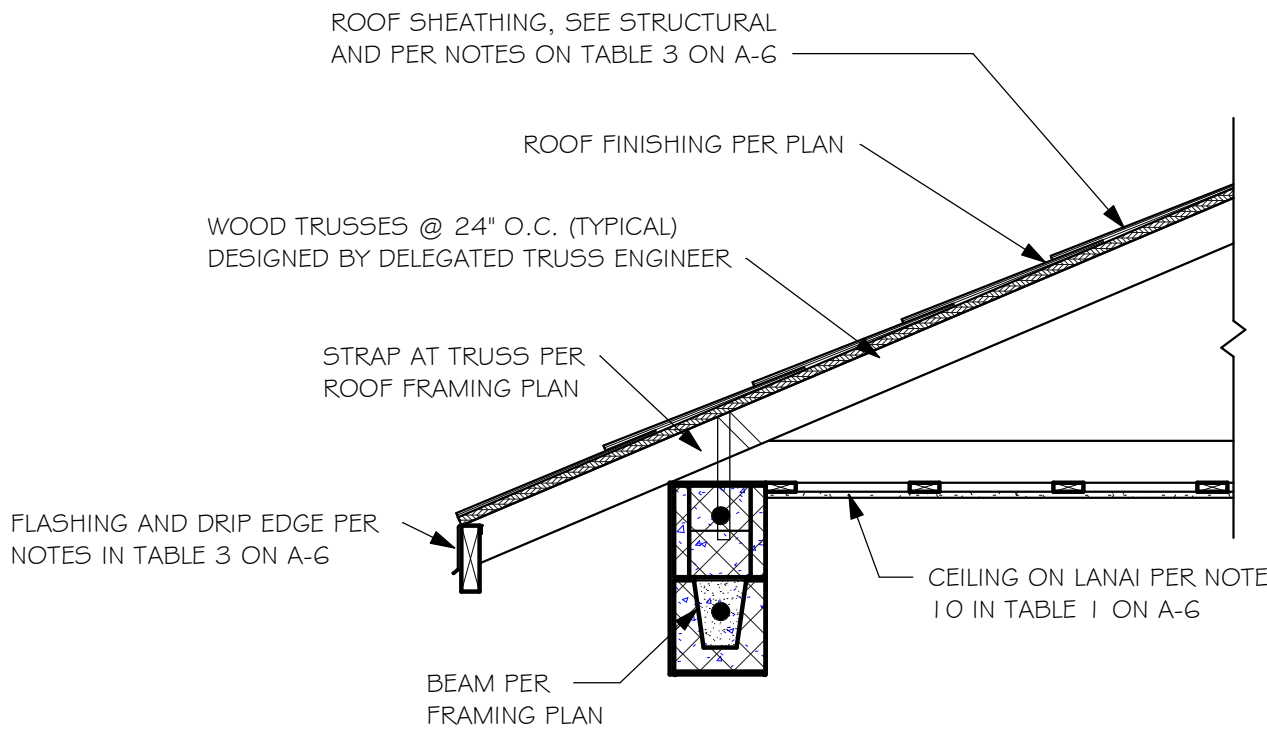
DOOR JAM TO BLOCK DETAIL



WINDOW JAM TO BLOCK DETAIL



GARAGE DOOR JAM DETAIL



LANAI/ ENTRY ROOF ASSEMBLY

3/4" = 1'-0"

ROOF SHEATHING SEE STRUCTURAL, AND PER NOTES IN TABLE 3 ON A-G

TILE ROOF PER NOTE 5 ON A-G.

WOOD TRUSSES @ 24" O.C. (TYPICAL.) DESIGNED BY DELEGATED TRUSS ENGINEER.

EMBEDDED STRAP AT EACH TRUSS SEE STRUCTURAL.

FLASHING AND DRIP EDGE PER NOTES IN TABLE 2 ON A-G

2X6 MIN. SUB FASCIA

PROVIDE VENTILATION PER R806.1

ALUMINIUM VENTED SOFFIT SHALL MEET R704.

BOND BEAM AND LINTEL, SEE STRUCTURAL

SLOPE TO EXTERIOR

PRECAST CONCRETE SILL

DECO. CEMENT FINISH PER ASTM C-926

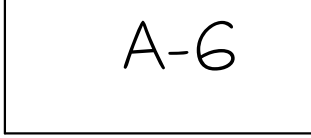
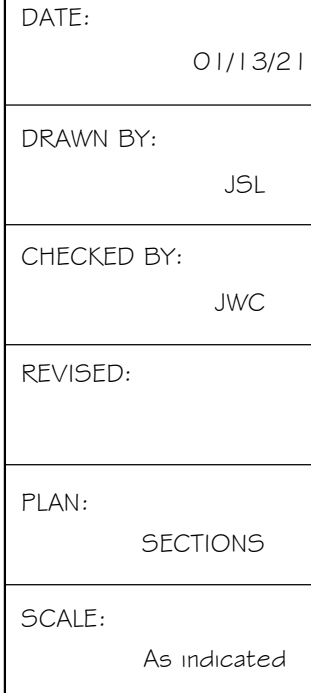
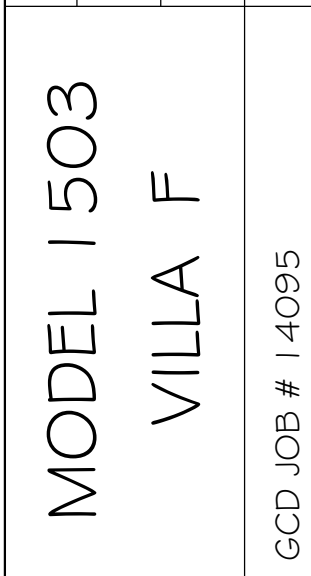
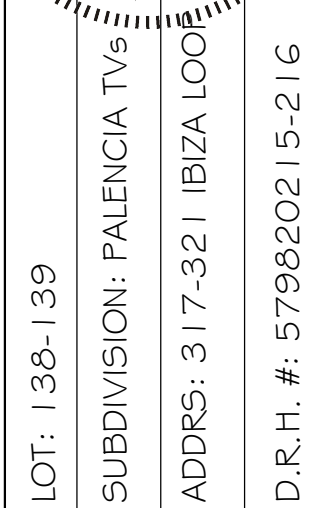
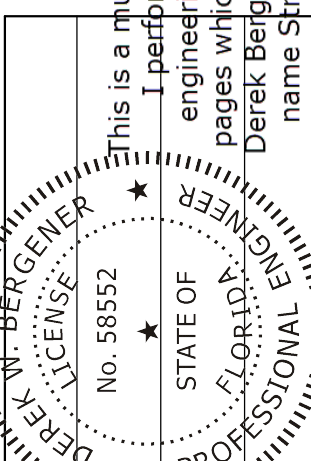
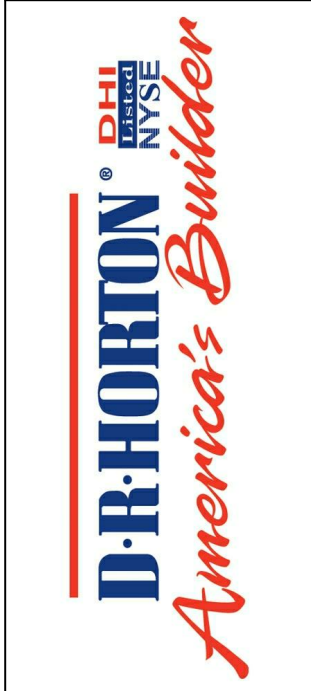
8" MASONRY WALL, SEE STRUCTURAL

CONC. FOOTING SEE STRUCTURAL PLAN FOR SIZE AND REINFORCING.

TYPICAL WALL SECTION

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

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TV\14095 LOT 138-139 1503 REV\14095 1503 F.dwg

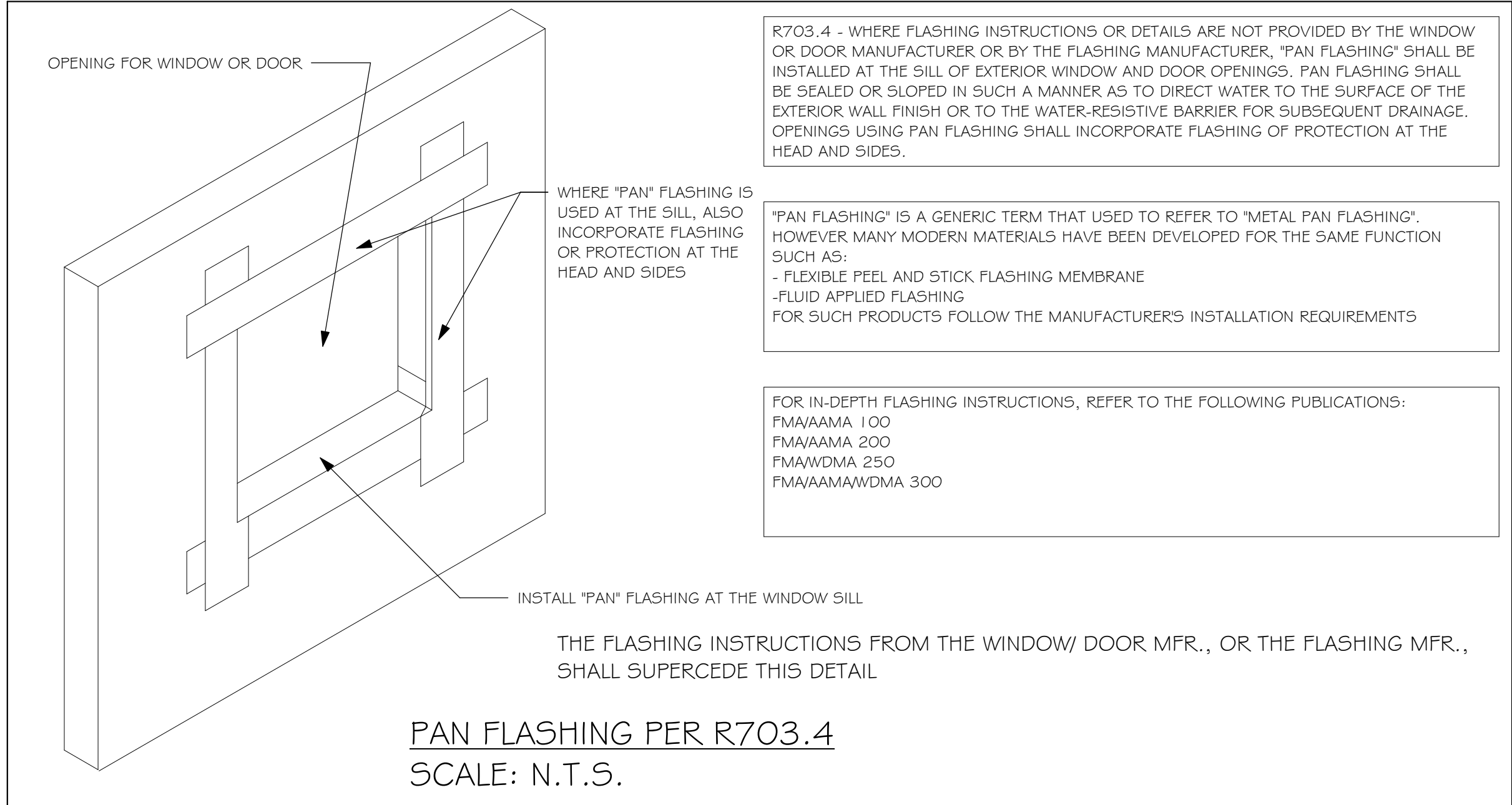
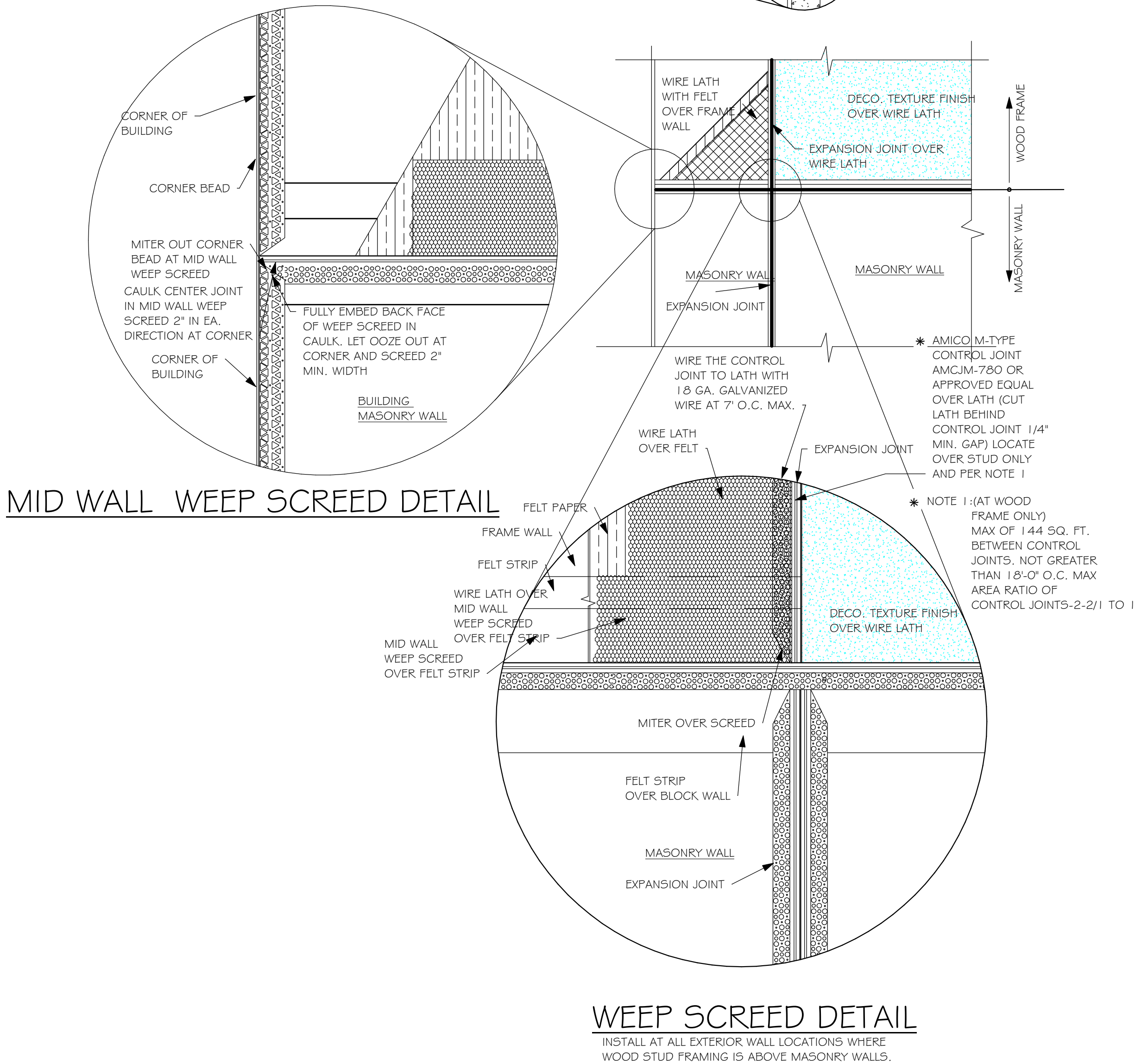
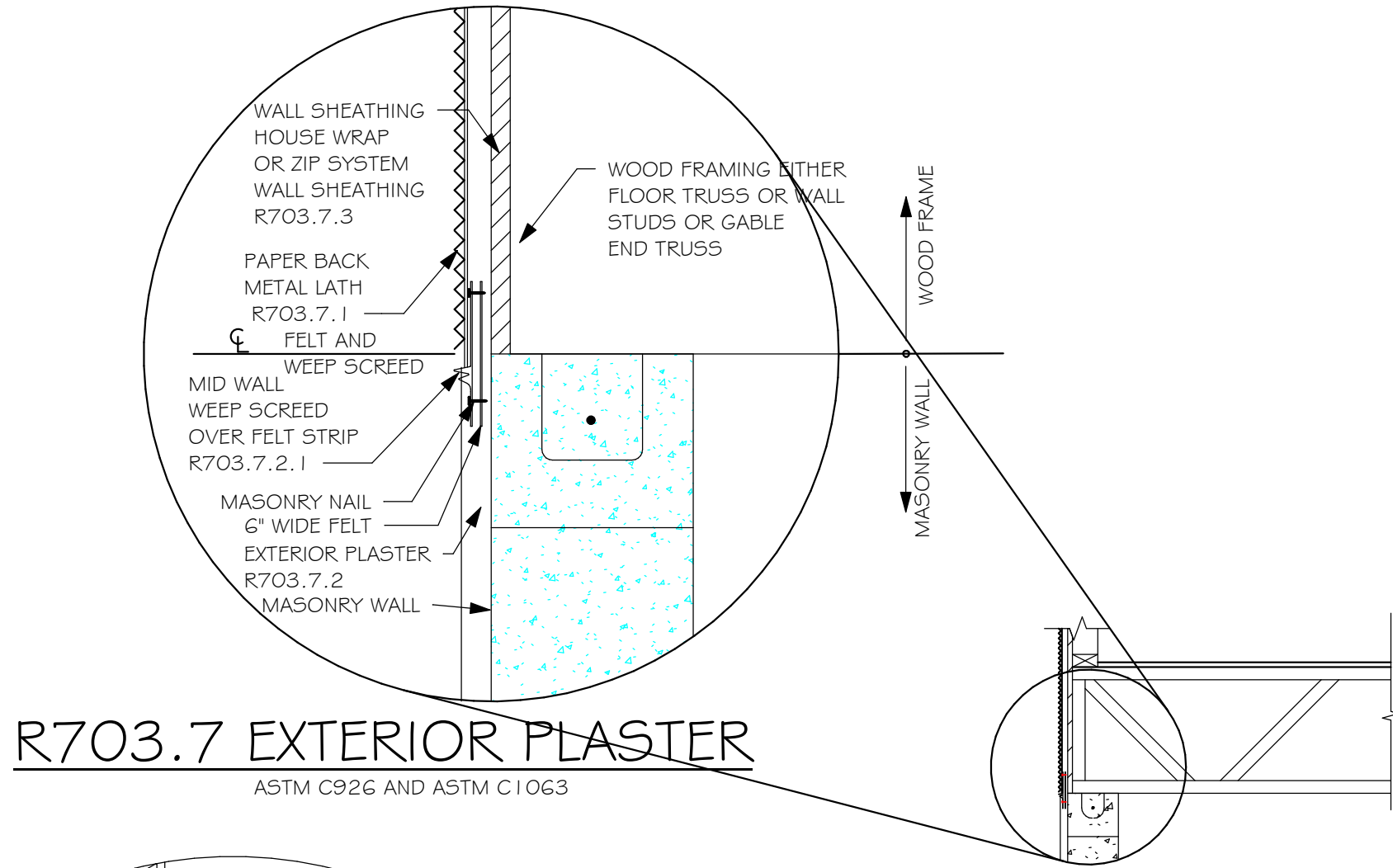


TABLE R803.2.3.1 – NAIL SPACING BASED ON SPECIFIC GRAVITY OF RAFTER/TRUSS: ALL TRUSS TOP CHORDS AND FIELD ROOF FRAMING SHALL BE SOUTHERN PINE, SPECIFIC GRAVITY=0.55 (EXCEEDS SG=0.42 AND 0.49 OF TABLE R803.2.3.1).

ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSS WITHOUT SPLITTING.

TYPICAL HOUSE PLAN

EDGE NAIL TO BLOCKING AT RIDGE/VALLEY/HIP

STAGGER JOINTS AT SHEATHING PANELS

EDGE NAIL TO FACIA BOARD

NAIL SPACING (TABLE R803.2.3.1) WIND SPEED / EXPOSURE

NAIL TYPE (SECTION R803.2.3.1) 19/32 SHEATHING

160/B, 160/C, 170/B

170/C

NAIL SPACING: 6" O.C. EDGE 6" O.C. FIELD

NAIL SPACING: 4" O.C. EDGE 4" O.C. FIELD

2 1/2" x 0.131" RING SHANK OR 3" x 0.120" RING SHANK (PER ASTM F1667 RSRs-03 & 04)

1 NAILING OF ROOF SHEATHING

SCALE: NTS

DOWEL TO MATCH WALL REINFORCING, LAP 30"

FINISHED GRADE, SEE SITE PLAN

VARIES

W

MIN

12"

MONOLITHIC FOOTING, SEE PLAN

EDGE

EMBED DOWELS 5" WITH 10" STD HOOK

3" CLEAR COVER TO REINFORCING

W

INTERIOR

STEPDOWN

W

GARAGE

W

MONOLITHIC FOOTINGS

SCALE: 3/4" = 1'-0"

8" CMU WALLS

2x4 or 2x6 P.T. BUCK @ FLANGED WINDOWS (SEE NOTE)

WINDOW/DOOR ROUGH OPENING

1/4"x3 3/4" TAPCON @ 24" OC, 3 SCREWS MIN. (SEE NOTE)

DOOR

2x8 OR 2x6 P.T. SYP #2

2x2x1/8" WASHER

1/2" Ø EXPANSION BOLT, 4" MIN. EMBEDMENT, SPACE 24" OC AND 12" FROM TOP & BOT.

BUCK FASTENING

GARAGE DOOR

NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2-1/4" INTO THE MASONRY. IN THIS CASE, THE BUCK MATERIAL IS SIMPLY A SPACER AND MAY BE 1x4 OR 1x6 OR OMITTED ENTIRELY AND THE SPACER MAY BE TACKED IN PLACE WITH MASONRY NAILS OR PINS.

RETROFIT STRAPS TO CONCRETE/MASONRY

TRUSS UPLIFT (LBS) @ 24" OC	CONNECTOR
TO 840	1-MTSM16 or 20
TO 1045	1-HTSM16 or 20
TO 2090	2-HTSM16 or 20
TO 4300	2-LGT2
TO 3480	HTT16
TO 10530	HGT-2/3

NOTES:

1) WHERE EMBEDDED STRAP IS MISSING OR MIS-LOCATED, PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.

2) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.

RETROFIT UPLIFT CONNECTOR SCHEDULE

SHEATHING SCHEDULE

EXTERIOR STUD WALL	FLOOR
7/16" ZIP SYSTEM WALL SHEATHING BY HUBER ENGINEERED WOODS LLC, NAILED W/ 8d COMMON WIRE @ 6" O.C. EDGE AND 6" O.C. FIELD. PROVIDE 2x4 BLOCKING AT ALL JOINTS. INSTALL SHEATHING AND SEAM TAPE IN STRICT ACCORDANCE WITH MFR. WRITTEN INSTRUCTIONS.	N/A
ROOF – PER FBCR TABLE 803.2.2	
19/32 CLASS A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20. FASTEN WITH RING SHANK NAILS PER DETAIL 1/S-3	
(WHEN ZIP BRAND ROOF SHEATHING IS USED, H-CLIPS ARE NOT REQUIRED)	

1) 1x4 STRIPPING @ 16"OC w/ 2-8d NAILS TO EACH TRUSS, 3/8" EXTERIOR GYPBOARD CEILING, FASTEN W/8d NAILS OR 1 1/8" DRYWALL SCREWS @ 6"OC EDGE & FIELD.

2) 3/8" BC PLYWOOD NAILED W/ 6d COMMON @ 6" OC EDGE & FIELD.

ALUMINUM PERFORATED SOFFIT INSTALLED PER MANUFACTURER INSTRUCTIONS TO MEET WIND PRESSURES PER R704.

NOTE: EXTERIOR CEILINGS SPECIFIED ABOVE MEET THE DESIGN WIND PRESSURES PER R703.1.2

3/4" DEEP SAWCUT w/ ELASTOMERIC SEALANT

SLAB ON GRADE, SEE PLAN

NOTES:

1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 20' X 20' MAXIMUM SQUARES.

2) SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT.

SLAB SAWCUT DETAIL

SCALE: NTS

#5 CORNER BAR, 25"x25"

MASONRY BOND BEAM, TYPICAL

INTERSECTION

CORNER

CORNER BAR DETAIL IN BOND BEAMS

SCALE: 3/4" = 1'-0"

ROOF COVERING AS SELECTED BY BUILDER PER: FBCR905.2 ASPHALT SHINGLES FBCR905.3 CLAY AND CONCRETE TILE FBCR 905.10 METAL ROOF PANELS

ROOF SHEATHING, SEE SCHEDULE 2/S-3

WOOD TRUSSES @ 24" OC, DESIGNED BY DELEGATED TRUSS ENGINEER

EMBEDDED STRAP AT EACH ROOF TRUSS, SEE ROOF PLAN. BREAK OUT WEB OF BLOCK AS NEEDED TO PROPERLY LOCATE EACH STRAP

TRUSS BEARING

SEE PLAN

2x6 (MIN) SPF #2 w/ 3-16d TO EACH TRUSS

APPROVED ISOLATION PLATE

8"x8" CONTINUOUS MASONRY BOND BEAM w/ 1-#5, GROUT SOLID. PROVIDE CORNER BARS PER DETAIL 8/S-3

ALUMINUM SOFFITS SHALL MEET WIND DESIGN PRESSURES PER R704 INSTALLED PER MFR. SPECS.

#5 VERT. IN GROUTED CELL AT DOT LOCATIONS ON PLAN (48" OC MAX EXTERIOR)

#5 VERTICAL SHALL HAVE 7" STANDARD HOOK INTO TOP OF BOND BEAM

TRUSS STRAP TO BOND BEAM

SCALE: 3/4" = 1'-0"

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES

TYPE	INTERIOR ZONE 4	END ZONE 5
SOFFIT (10 SQ. FT.)	+33.5 -36.3	+33.5 -44.8
WINDOWS & DOORS (10 SQ. FT.)	+33.5 -36.3	+33.5 -44.8
8' OR 9' GARAGE DOORS	+29.4 -33.3	+33.5 -44.8
16' OR 18' GARAGE DOORS	+28.2 -31.5	

(SEE PLAN FOR OTHER SPECIFIC PRESSURES)

1) TABLE MAY BE USED FOR ANY SIZE WINDOW OR DOOR IN EACH TYPE.

2) USE "INTERIOR ZONE 4" PRESSURES UNLESS WINDOW OR DOOR IS LOCATED WITHIN THE "END ZONE 5" (SEE DIAGRAM BELOW), THEN USE THE HIGHER PRESSURES UNDER THE "END ZONE 5" COLUMN.

3) ALL GLASS / GLAZING SHALL BE IMPACT RATED OR USE IMPACT RATED SHUTTERS.

4) SUBMIT PRODUCT APPROVALS TO THE BUILDING DEPARTMENT AS REQUIRED BY THE LOCAL JURISDICTION.

5) MANUFACTURED SOFFIT PRODUCTS SHALL BE INSTALLED PER MFR ENGINEERING SPEC SHEETS.

* ON IRREGULAR SHAPED BUILDINGS, THERE IS NO GUIDANCE IN THE CODE FOR HOW FAR A CORNER MUST PROTRUDE FROM THE MAIN BUILDING TO BE CONSIDERED "ZONE 5". WE HAVE CHOSEN >15'. THIS IS SUBJECT TO JUDGEMENT CALL BY THE AUTHORITY HAVING JURISDICTION.

IN ZONE 5, MANUFACTURED SOFFIT PRODUCTS MAY REQUIRE ADDITIONAL BATONS OR FASTENING PER MFR ENGINEERING SPEC SHEETS TO MEET THE PRESSURE REQUIREMENTS.

END ZONE 5 PRESSURES OCCUR AT "PRIMARY" OUTSIDE CORNERS OF BUILDING (BOLD LINES)

INTERIOR ZONE 4 PRESSURES

END ZONE 5 PRESSURES OCCUR AT "PRIMARY" OUTSIDE CORNERS OF BUILDING (BOLD LINES)

INTERIOR ZONE 4 PRESSURES

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES

3" COVER

MAINTAIN FOOTING WIDTH & DEPTH AT ALL VERT. AND HORIZ. SEGMENTS

FOOTING REIN., SEE PLAN. LAP 40 BAR DIAMETERS

FOOTING REIN., SEE PLAN

LAP CORNER BARS 40 BAR DIAMETERS

CONCRETE FOOTING, SEE PLAN

PLAN VIEW

STEP FOOTING

SCALE: NTS

FOOTING CORNER BARS

SCALE: NTS

LINTEL AT LANAI OR ENTRY. '8F16-1B/1T' (8"x16" FILLED SOLID, 1#5 BOTTOM, 1-#5 TOP)

8"x8" BOND BEAM w/ 1-#5

TRUSS BEARING

7" STANDARD HOOK INTO TOP OF BOND BEAM (MAY USE 7"x25" BENT BAR)

#5 VERT. AT INTERSECTION OF BOND BEAM w/ 7" HOOK AT TOP

MASONRY WALL

#5 VERTICAL IN GROUTED CELL AT DOT LOCATIONS ON PLAN

BOND BEAM REINFORCING DETAIL

SCALE: 3/4" = 1'-0"

ROOF SHEATHING, SEE SCHEDULE.

2x6 (MIN) SPF #2 w/ 3-16d TO EACH TRUSS

2x4 BLOCK AT SHEATHING JOINT

2x4 BRACE AT LOCATIONS SHOWN ON PLAN

3-12d TOE NAILS

2x4 BLOCKING

TRUSS TOP CHORD, DROP 3/2"

BRACE VERTICAL MEMBERS PER TRUSS MFR DETAILS

MID WALL WEEP SCREED

12d NAILS AT TRUSS BOTTOM CHORD TO SILL @ 8" O.C.

MASONRY WALL, SEE PLAN

DROPPED GABLE TRUSS

GABLE END BRACING

SCALE: N.T.S.

DESIGN CRITERIA:

DESIGN IN ACCORDANCE WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL.

1. FLOOR & ROOF UNIFORM LOADS:

ELEVATED FLOORS: LIVE LOAD 40 PSF, DEAD LOAD 20 PSF

ROOF: LIVE TOP CHORD 20 PSF

LIVE BOTTOM CHORD 10 PSF (NON-CONCURRENT w/ TCL)

CEMENT ROOF TILE DEAD LOAD 25 PSF TOTAL

SHINGLE/METAL ROOFING DEAD LOAD 15 PSF TOTAL

MINIMUM DEAD LOAD FOR WIND: TC 5 PSF, BC 5 PSF

DEFLECTION CRITERIA:

FLOOR L/480 LIVE, L/360 TOTAL

ROOF L/240 LIVE, L/180 TOTAL

2. WIND LOADS:

WIND DESIGN PER, ASCE7-16

BASIC WIND SPEED (ASCE7-16) 160 MPH

NOMINAL WIND SPEED (Vasd TABLE R301.2.1.3) 124 MPH

BUILDING CATEGORY II

IMPORTANCE FACTOR	1.00
EXPOSURE C	
MEAN ROOF HEIGHT	= 15 FT
ROOF PITCH	5/12
ENCLOSURE CLASS	ENCLOSED
INTERNAL PRES. COEFF.	+/- 0.18

WINDOW/DOOR DESIGN WIND PRESSURE PER TABLE R301.2(2), R301.2(3) AND R301.2(4), SEE DETAIL ON S-3.

SOFFITS – PER R704, ALL SOFFITS & THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2) FOR WALLS USING 10 SQ. FT.

3. REINFORCED CONCRETE:

DESIGN AS PER ACI 318-14

REQUIRED COMPRESSIVE STRENGTH AT 28 DAYS:

SLAB ON GRADE f'c = 2500 PSI

3 1/2" MINIMUM THICKNESS REINFORCED WITH 6x6 w/1.4w/1.4 WWF OR FIBERMESH.

CONVENTIONAL SHALLOW FOOTINGS f'c = 2500 PSI

BEAMS AND COLUMNS f'c = 3000 PSI

ALL OTHER CONCRETE (U.N.O.) f'c = 3000 PSI

UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS	3"
SLAB ON GRADE	CENTERED
BEAMS	1 1/2"
COLUMNS	1 1/2"

ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.

REINFORCING STEEL – ASTM A615 GRADE 60 FOR #3 GRADE 60 FOR #4 TO #11

WELDED WIRE FABRIC – ASTM A185

SPICES IN REINFORCING, SHALL BE 40 BAR DIAMETERS. NON-CONTACT LAP SPICES MAY BE USED PROVIDED REINFORCING IS NOT SPACED MORE THAN 5" APART FOR #5 BARS.

FORMWORK AND SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF THE REQUIRED 28 DAY STRENGTH.

4. REINFORCED MASONRY:

DESIGN PER TMS 402/602-16

REQUIRED COMPRESSIVE STRENGTHS:

MASONRY WALLS f'm = 1500 PSI

REINFORCING STEEL – ASTM A615 GRADE 60.

SPICES IN REINFORCING, SHALL BE 48 BAR DIAMETERS.

ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90, GRADE N-1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE 'S' MORTAR. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK CONCRETE GROUT. ALL CELLS BELOW FINISHED GRADE SHALL BE GROUTED SOLID. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT AT DOT LOCATIONS ON PLAN.

5. DELEGATED-ENGINEERED WOOD ROOF TRUSSES:

ALL WOOD ROOF TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15-31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91." FOR OTHER BRACING REQUIREMENTS, NOTIFY ENGINEER. PROVIDE PERMANENT BRACING PER TRUSS MFR. SHOP DRAWINGS. IF PERMANENT BRACING IS NOT SPECIFIED, CONTACT ENGINEER.

6. FOUNDATION:

CONVENTIONAL SHALLOW CONCRETE FOOTINGS

SOIL BEARING CAPACITY 2000 PSF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL CONDITIONS FOR THE INTENDED STRUCTURE AND ASSUMED SOIL BEARING CAPACITY. IT IS RECOMMENDED THAT A GEOTECHNICAL FIRM BE HIRED TO PERFORM A SITE EVALUATION.

7. DIMENSIONS: VERIFY ALL DIMENSIONS WITH HOUSE PLANS. SEE HOUSE PLANS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

9. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW FOR ALL STRUCTURAL ELEMENTS UTILIZING PREFABRICATED COMPONENTS. ONE SET OF SIGNED & SEALED TRUSS ENGINEERING SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THE STRUCTURE PER FLORIDA ADMINISTRATIVE CODE 61G15-30.005 AND 61G15-31.003.

At Exterior Stud Walls and Gable Ends with Wall Sheathing, apply plaster over metal lath over water resistive barrier as follows:

Plaster R703.7.2: 3-coat 7/8" thick portland cement based plaster per ASTM C926.

Metal Lath R703.7.1: Self furring paper backed 2.5lb diamond mesh metal lath per ASTM C947, G60 galvanized, fastened per ASTM C1063 with 1-1/2" long, 11 gage nails with 7/16" head (roofing nails) at 7" oc, or 1-1/2" long, 16 gage staples at 6" oc, into the framing members (ie, the nails or staples must align with and penetrate 3/4" into the framing studs).

Water Resistive Barrier (WRB) R703.7.3: Water-resistive vapor-permeable barrier with a performance at least equivalent to 2 layers of Grade D paper. The individual layers shall be installed independently. An approved house wrap may be used for the 1st layer and metal lath with approved paper backing may be the 2nd layer (Note: ZIP wall sheathing with seam tape qualifies as the first layer).

2x4 BLOCK AT SHEATHING JOINT

ROOF SHEATHING, SEE SCHEDULE

2x6 (MIN) SPF #2 w/ 3-16d TO EACH TRUSS

3-12d TOE NAILS

2x4 OUTLOOKER

H2.5A CLIP @ EA. OUTLOOKER TO TRUSS

TRUSS TOP CHORD, DROP 3/2"

DROPPED GABLE TRUSS OUTLOOKER DETAIL

SCALE: N.T.S.

REVISIONS	BY

STRUCTURAL ENGINEERING:

STRUCTURAL SYSTEMS OF NORTH FLORIDA

1634 S.E. 47th STREET, SUITE #3

CAPE CORAL, FL 33904

(239) 549-4554

CA # 8629

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

BUILDER:

D.R. HORTON, P.E.

America's Builder

STRUCTURAL DETAILS FOR 1503 SIGNATURE VILLA

317, 321 1B7A LOOP

VENICE, FLORIDA 34292

LOT: 136-139 SUBDIVISION: PALENCIA

DESIGN/DRAWN DWB/DWB

CHECKED DWB

DATE 1/17/22

SCALE AS NOTED

JOB NO. DR 14095

SHEET

S-1

SHEET 1 OF 2

STRUCTURAL DETAILS FOR 1503 SIGNATURE VILLA

317, 321 1B7A LOOP

VENICE, FLORIDA 34292

LOT: 136-139 SUBDIVISION: PALENCIA

DESIGN/DRAWN DWB/DWB

CHECKED DWB

DATE 1/17/22

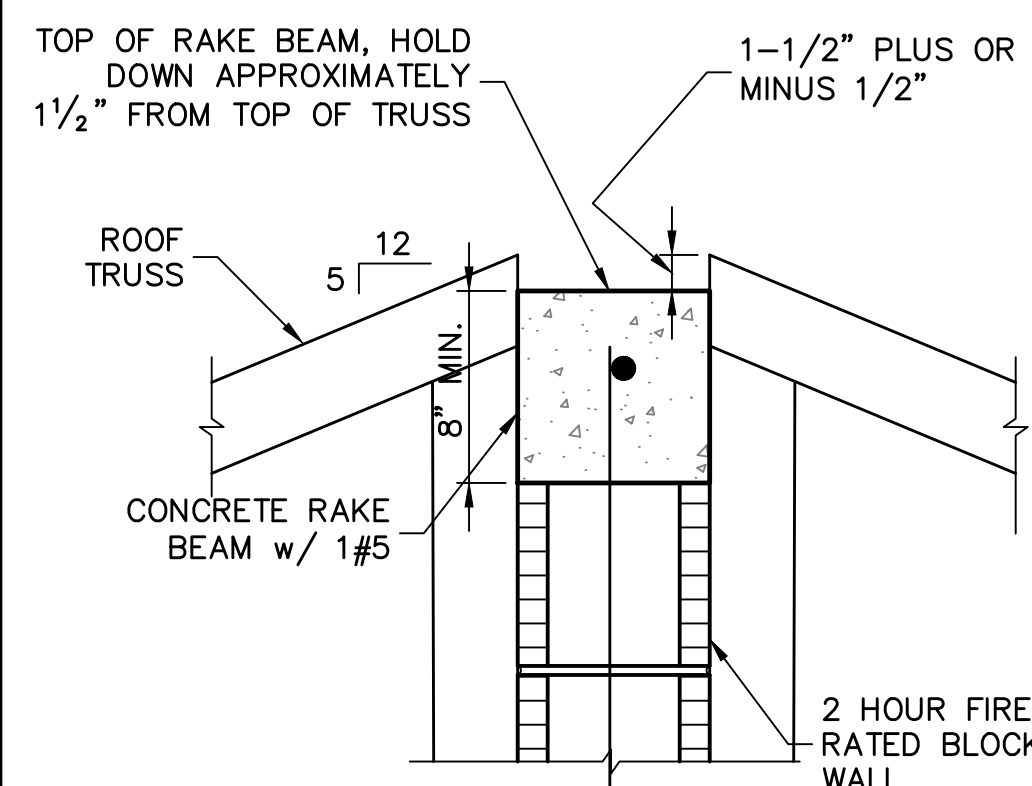
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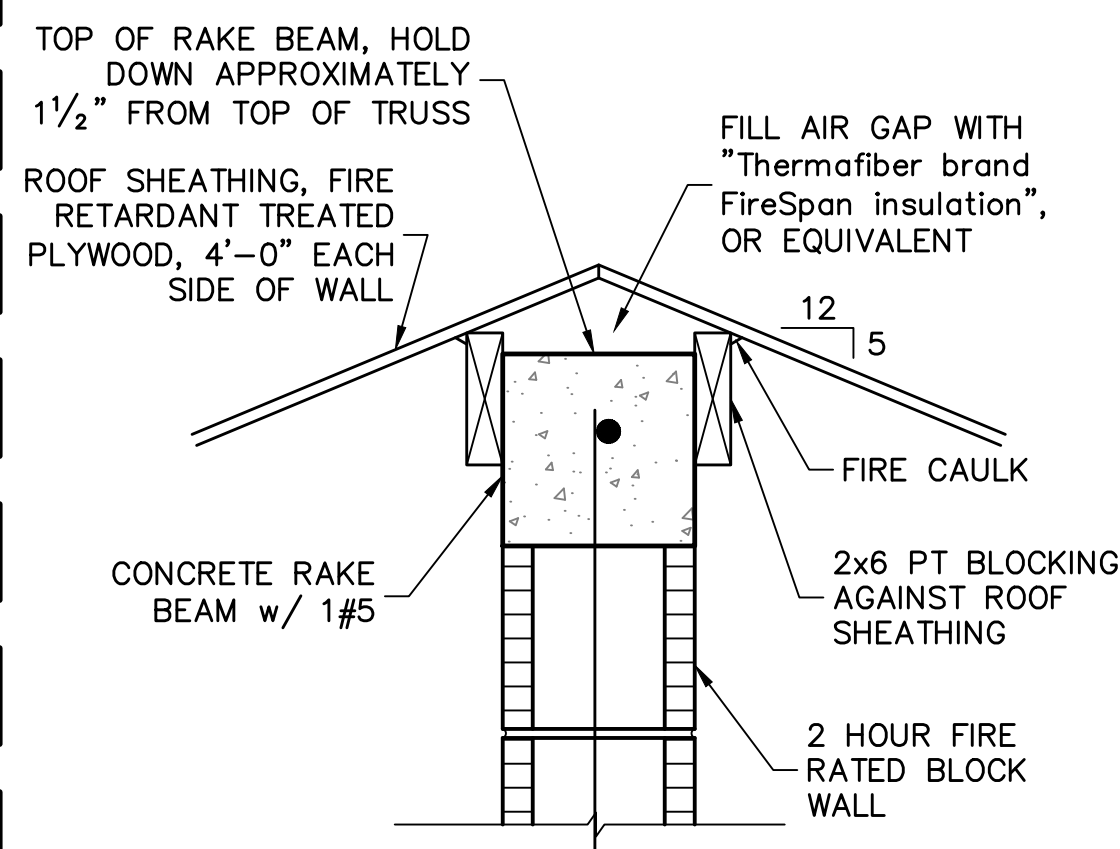
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SHEET 1 OF 2

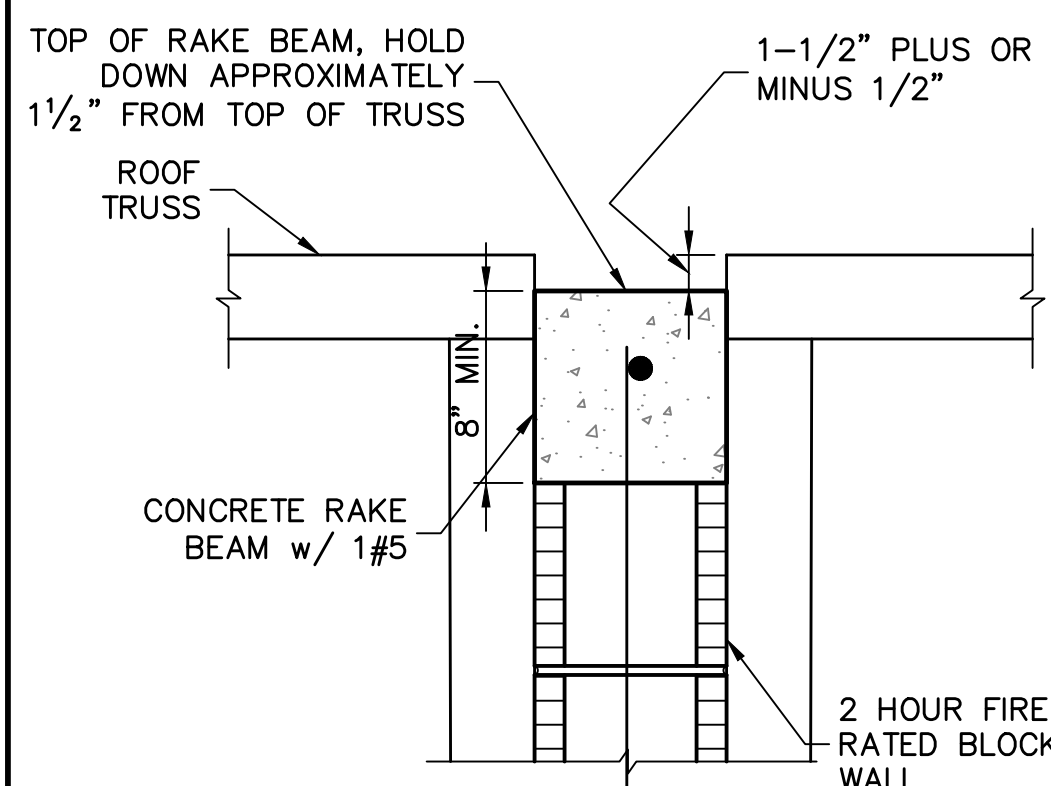
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1A RAKE BEAM AT TOP OF FIREWALL
HOLD DOWN APPROXIMATELY 1 1/2" FROM
TOP OF TRUSS

TOP OF FIREWALL
SCALE: 1-1/2" = 1'-0"



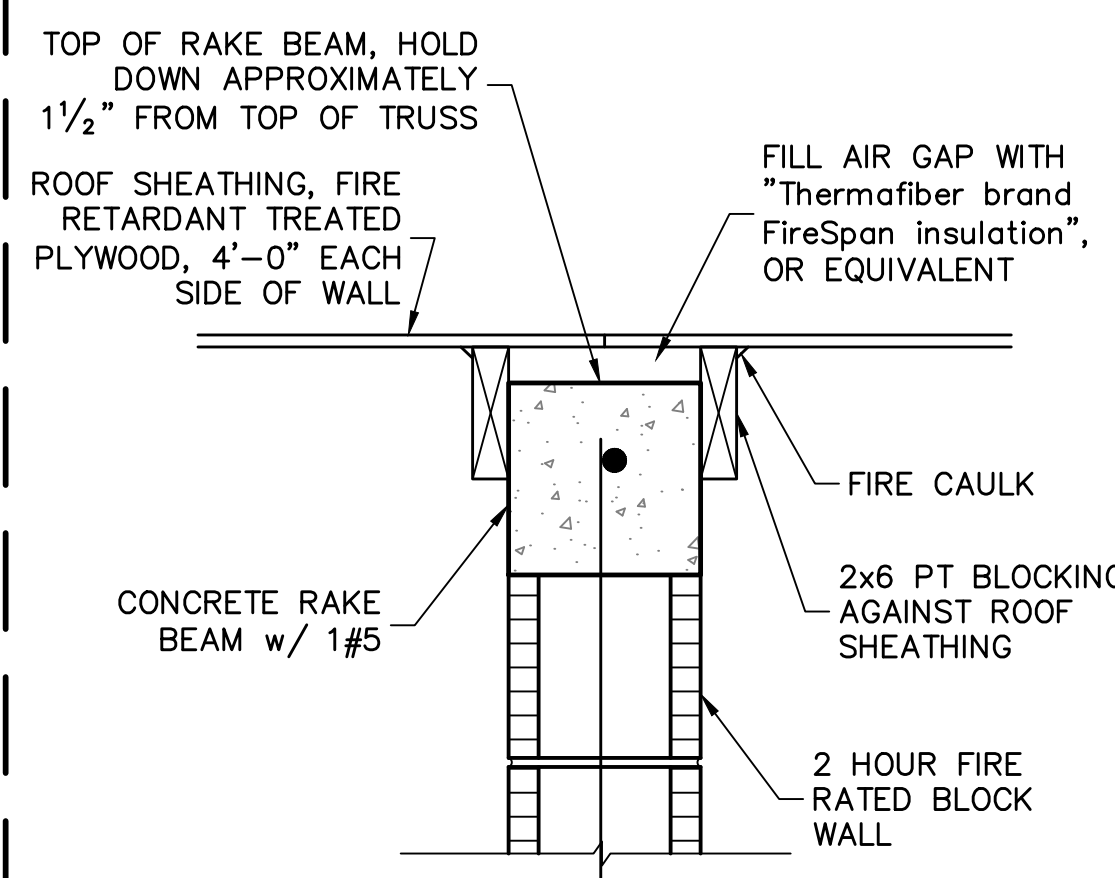
1B TOP OF FIREWALL
SCALE: 1-1/2" = 1'-0"



2A

RAKE BEAM AT TOP OF FIREWALL
HOLD DOWN APPROXIMATELY 1 1/2"
TOP OF TRUSS

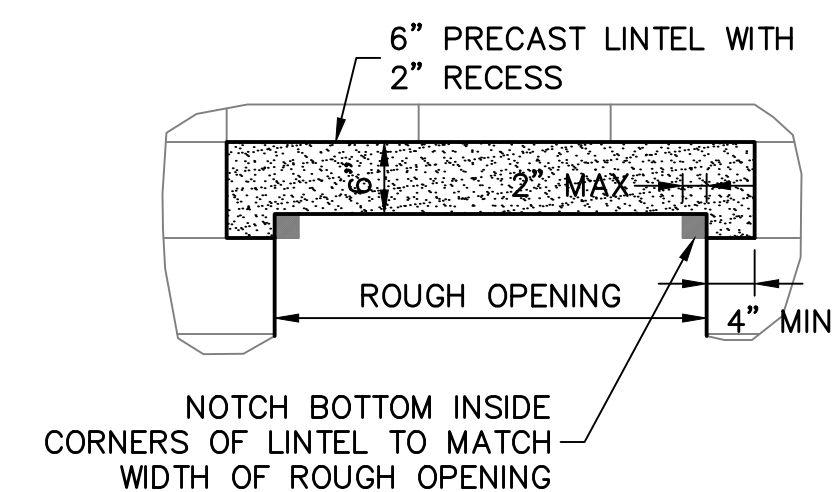
TOP OF FIREWALL
SCALE: 1-1/2" = 1'-0"



2B

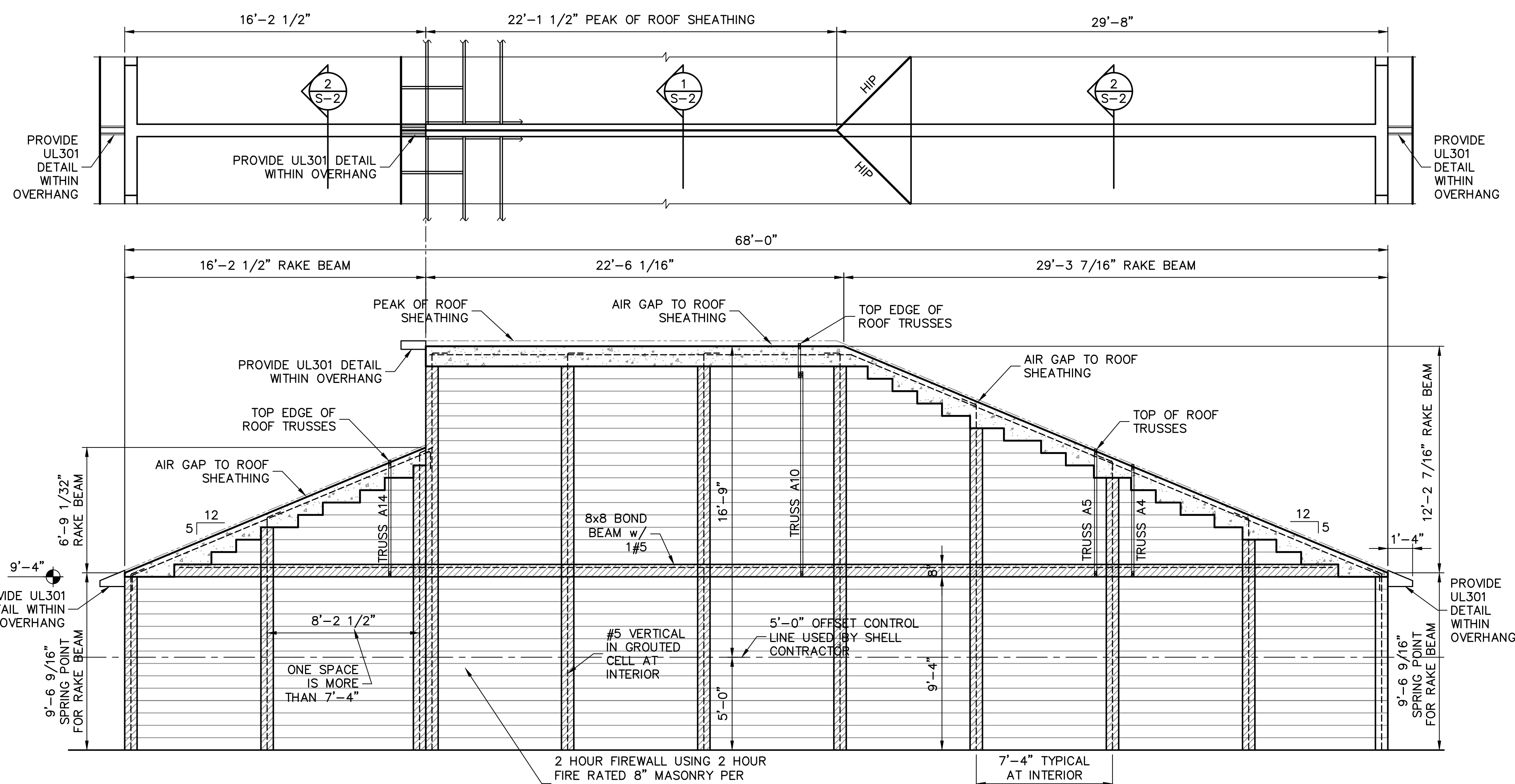
BLOCKING AT UNDERSIDE OF ROOF
FILL AIR GAP WITH THERMAFIBER FIBER
INSULATION (OR EQUIVALENT).

TOP OF FIREWALL
SCALE: 1'-1/2" = 1'-0"

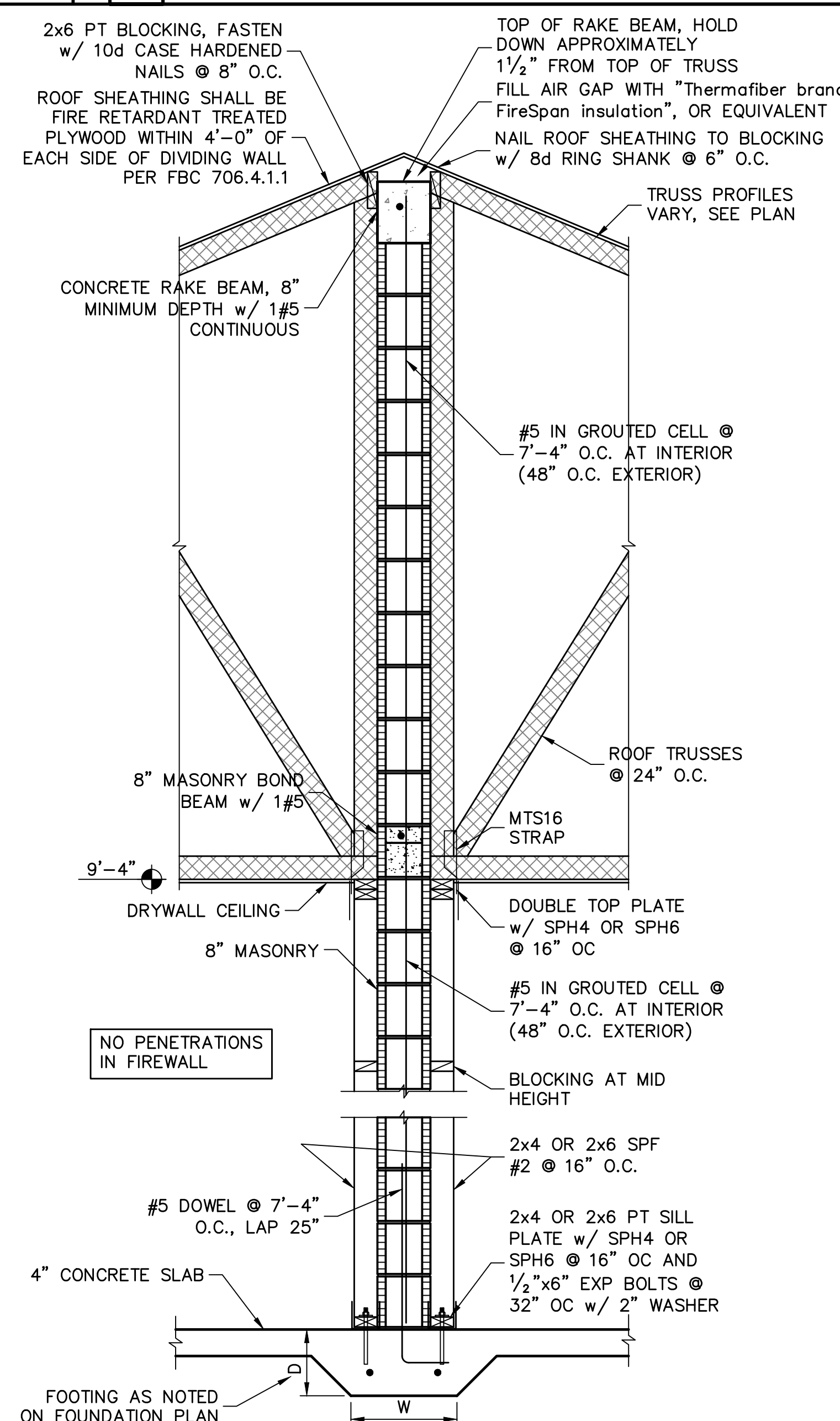


AT EXTERIOR SWING DOORS, A 6" DEEP LINTEL WITH 2" RECESS MAY BE USED IN PLACE OF 8x8 LINTEL. THE BOTTOM INSIDE CORNERS MAY BE NOTCHED UP TO 2" WIDER EACH SIDE TO MATCH THE WIDTH OF THE ROUGH OPENING.

3 6" PRECAST LINTEL WITH 2" RECESS
SCALE: $\frac{3}{4}" = 1'-0"$



SECTION FOR 1503 VILLA
FOR 5:12 ROOF PITCH
SCALE: 1/4" = 1'-0"



5 2 HOUR FIREWALL AT LIVING AREA
SCALE: $\frac{3}{4}" = 1'-0"$

This is a multi-page document.
I performed structural engineering only on those pages which contain my seal, Derek Bergener, and company name Structural Systems

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

BUILDER:

STRUCTURAL DETAILS FOR
1503 SIGNATURE VILLA

317, 321 IBIZA LOOP
VENICE, FLORIDA 34292
LOT: 138-139 SUBDIVISION: PALENCIA

A circular professional engineer seal for the State of Florida. The outer ring contains the text "DEREK W. BERGENER" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. The inner circle contains the text "LICENSE" on the left, "No. 58552" in the center, and "STATE OF FLORIDA" on the right, also separated by three stars.

STRUCTURAL ENGINEERING:
**STRUCTURAL
SYSTEMS
OF NORTH FLORIDA**
1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554

SCOSTA CORPORATION

3670 Commerce Center Drive Sebring, FL 33870
(863)385-8242 Voice
(863)385-8724 Fax
Plans@scostacorp.com

Engineering Cover Sheet

Job #: DR1503-160C

Date: 2/17/2021 4:16:45 PM

Job Information:

Contractor:

D.R. HORTON

Job Name:

1503 F TWIN VILLA

Address:

**

Truss designs meet the criteria of FBC 7th Ed. 2020 Res.

Gravity - Roof (psf): TC LL 20 TC DL 20 BC DL 10 BC LL 0 Total: 50

Wind: ASCE 7-16 160 MPH Exposure: C - Closed

Risk Category: Residential - CAT II

DL TO RESIST WIND TC 4.00 BC 6.00

Gravity - Floor (psf): TC LL 0 TC DL 0 BC DL 0 BC LL 0 Total: 0

The following truss designs have been prepared with Alpine/ITW proprietary software, and reviewed by Richard A. Siver P.E. Florida Registered Engineer # 65698. This cover sheet is sealed in lieu of each individual sheet in accordance with 61G15-31.003, FAC Standard detail sheets and or sealed engineering sheets by Alpine/ITW are added to those listed below. The details are believed to be correct to the best of this engineer's knowledge, and the accuracy of the information provided by others cannot be guaranteed. Note the seal on this index sheet indicates acceptance of professional engineering responsibility as the truss design engineer solely for the Truss Design Drawings listed below. The suitability and use of each component for any particular building is the responsibility of the Building Designer, per ANSI/TPI 1 Section 2.

The Identity of the structural Engineer of Record has not been provided as of the seal date.

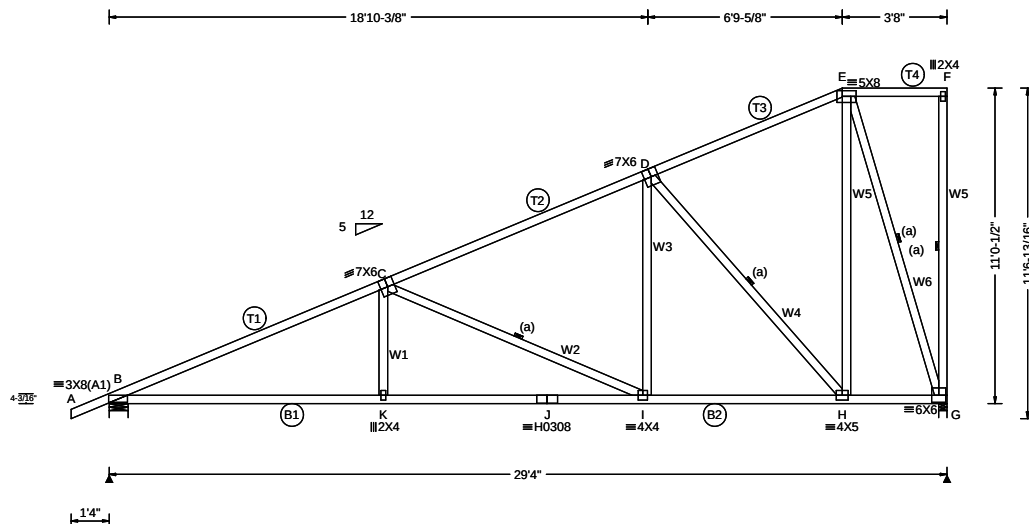
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3	A12	2/17/2021	23	J4	2/17/2021
4	A13	2/17/2021	24	J2	2/17/2021
5	A14	2/17/2021	25	EJ2	2/17/2021
6	A15	2/17/2021	26	V4	2/17/2021
7	A16	2/17/2021	27	V3	2/17/2021
8	A9	2/17/2021	28	V2	2/17/2021
9	A8	2/17/2021	29	V1	2/17/2021
10	A7	2/17/2021	30	PB2	2/17/2021
11	A6	2/17/2021	31	PB1	2/17/2021
12	A5	2/17/2021	32	PB3	2/17/2021
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14	A3	2/17/2021			
15	A2	2/17/2021			
16	A1	2/17/2021			
17	A17	2/17/2021			
18	A18	2/17/2021			
19	A19	2/17/2021			
20	CJ11	2/17/2021			

This item has been digitally signed by Richard A. Siver on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A10	Ply: 1 Qty: 18 Wgt: 187.6 lbs	SEQN: 29859 / T8 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.092 K 999 360 VERT(TL): 0.221 K 999 240 HORZ(LL): 0.033 G - - HORZ(TL): 0.078 G - - Creep Factor: 2.0 Max TC CSI: 0.952 Max BC CSI: 0.854 Max Web CSI: 0.877 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1673 -/- /- /1243 /225 /434 G 1597 -/- /- /1115 /398 -/ Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.9 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 179 - 668 B - C 733 - 2997 E - F 0 0 C - D 403 - 1738

Lumber

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of structural panels or rigid ceiling provide lateral bracing to brace all flat TC @ 48" oc, all BC @ 24" oc.

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2645	- 1153	I - H	1438	- 624
K - J	2640	- 1155	H - G	490	- 224
J - I	2640	- 1155			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	409	0	E - H	1280	- 402
C - I	587	- 1294	E - G	692	- 1518
I - D	799	- 140	F - G	176	- 152
D - H	618	- 1462			

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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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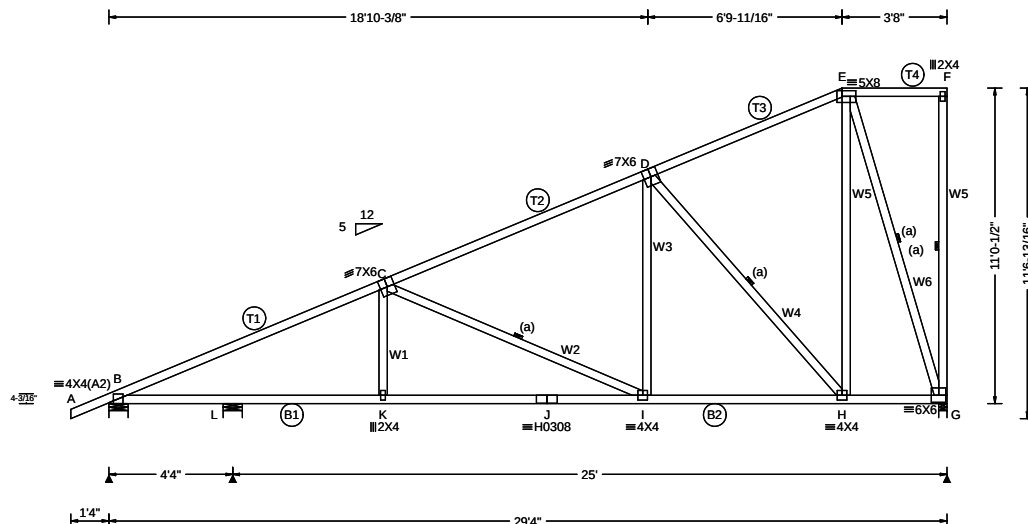
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A11	Ply: 1 Qty: 6 Wgt: 187.6 lbs	SEQN: 29860 / T36 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: > 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.087 C 999 360 VERT(TL): 0.209 K 999 240 HORZ(LL): 0.028 G - - HORZ(TL): 0.067 G - - Creep Factor: 2.0 Max TC CSI: 0.492 Max BC CSI: 0.404 Max Web CSI: 0.853 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1471 - / - /1084 /206 /434 L 245 - / - /186 /21 - G 1563 - / - /1088 /395 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 L Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B, L, & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP M-31; T4 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of structural panels or rigid ceiling provide lateral bracing to brace all flat TC @ 48" oc, all BC @ 24" oc.

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

A - B	43	0	D - E	176	-654
B - C	680	-2771	E - F	0	0
C - D	392	-1694			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	4858 -2203	I - H	1402 -616
K - J	2427 -1104	H - G	477 -221
J - I	2427 -1104		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - C	276 0	E - H	1238 -393
C - I	541 -1101	E - G	683 -1476
I - D	753 -128	F - G	176 -152
D - H	609 -1427		

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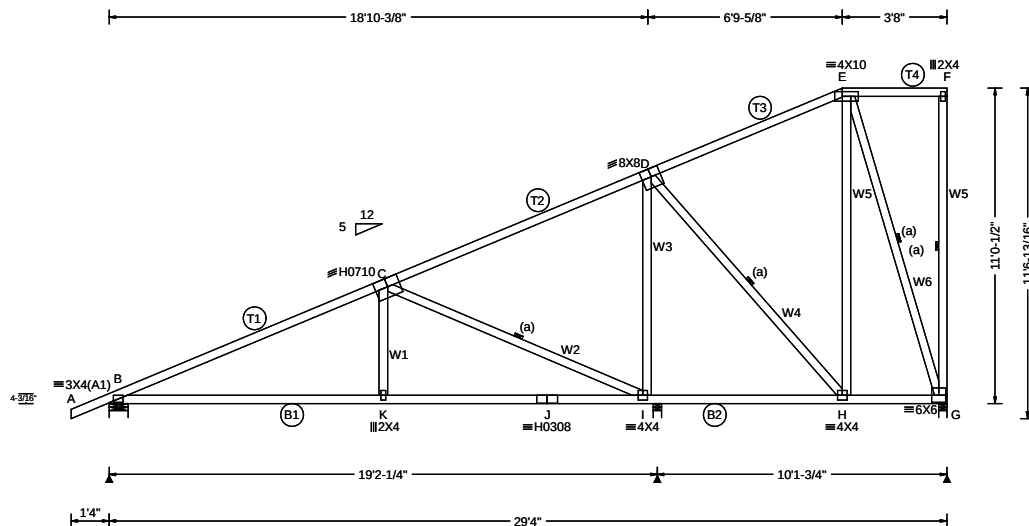
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A12	Ply: 1 Qty: 2 Wgt: 187.6 lbs	SEQN: 29861 / T9 / HIPM FROM:	DRW: ... / ... 02/17/2021
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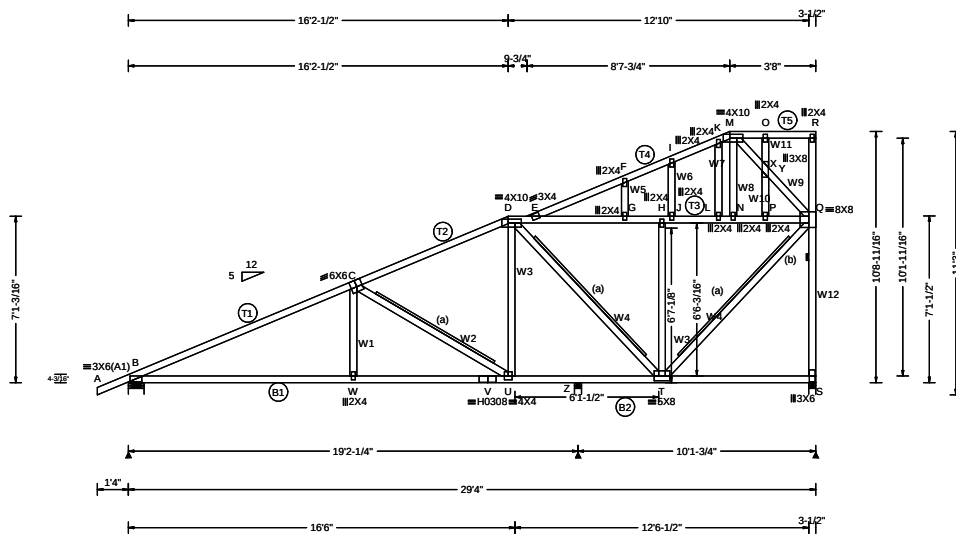
Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.046 K 999 360 VERT(TL): 0.110 K 999 240 HORZ(LL): 0.015 G - - HORZ(TL): 0.036 G - - Creep Factor: 2.0 Max TC CSI: 0.956 Max BC CSI: 0.500 Max Web CSI: 0.646 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1219 -/- /- /942 /148 /434 I 1305 -/- /0 /867 /220 /0 G 745 -/- /- /549 /254 /- Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 I Brg Width = 3.5 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B, I, & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 71 -340 B - C 365 -1873 E - F 0 0 C - D 10 -542

Lumber Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2; Bot chord: 2x4 SP M-31; Webs: 2x4 SP #2;	Bracing (a) Continuous lateral restraint equally spaced on member.	Loading Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.	Purlins In lieu of structural panels or rigid ceiling provide lateral bracing to brace all flat TC @ 48" oc, all BC @ 24" oc.	Wind Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.
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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCEA: www.sbceaindustry.com; ICC: www.iccsafe.org	SCOSTA CORPORATION WOOD, STEEL OR TIMBER ROOF OR FLOOR TRUSSES 3670 COMMERCE CENTER DRIVE SEBRING, FL 33870 (863)385-8242
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A13	Ply: 1 Qty: 2 Wgt: 218.4 lbs	SEQN: 29893 / T13 / SPEC FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.103 E 999 360 VERT(TL): 0.234 E 978 240 HORZ(LL): 0.028 S - - HORZ(TL): 0.062 S - - Creep Factor: 2.0 Max TC CSI: 0.699 Max BC CSI: 0.831 Max Web CSI: 0.805 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1624 - / - / - /1179 /224 /416 Z 271 - / - / - /168 /21 - S 1535 - / - / - /993 /379 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 Z Brg Width = 3.5 Min Req = 1.5 S Brg Width = 3.5 Min Req = 1.8 Bearings B, Z, & S are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber
Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing
(b) Continuous lateral restraint equally spaced on member.
(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

A - B	43	0	I - K	169	- 237
B - C	747	- 2854	J - L	339	- 946
C - D	524	- 1845	K - M	186	- 192
D - E	273	- 1087	L - N	340	- 947
E - F	46	- 257	M - O	2	- 1
E - G	330	- 933	N - P	337	- 944
F - I	91	- 206	O - R	2	- 1
G - H	335	- 939	P - Q	337	- 944
H - J	335	- 939			

Chords	Tens.Comp.	Chords	Tens. Comp.
B - W	2508 - 1159	U - T	3180 - 1521
W - V	2503 - 1161	T - S	1 0
V - U	2503 - 1161		

Webs	Tens.Comp.	Webs	Tens. Comp.
W - C	397 0	K - L	42 - 52
C - U	488 - 1093	M - N	100 - 101
D - U	599 - 142	M - X	248 - 240
D - T	397 - 731	X - O	133 - 114
F - G	153 - 184	P - Y	96 - 85
H - T	356 - 518	Y - Q	272 - 259
T - Q	1562 - 710	Q - R	118 - 101
I - J	195 - 294	Q - S	831 - 1395

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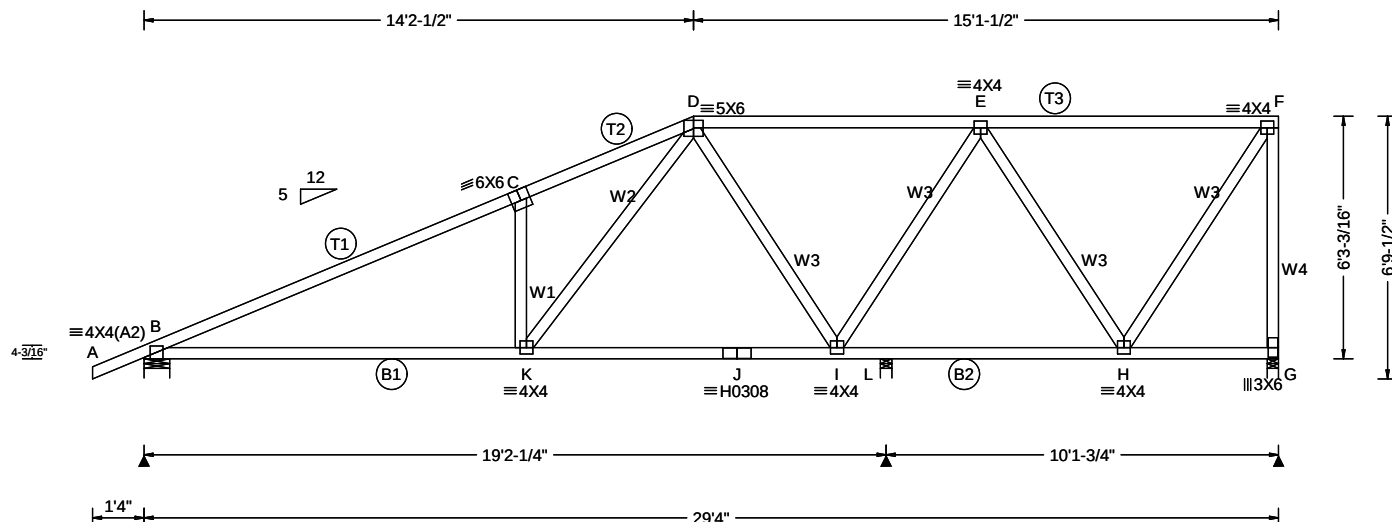
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A14	Ply: 1 Qty: 2 Wgt: 152.6 lbs	SEQN: 29863 / T20 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.069 C 999 360 VERT(TL): 0.161 C 999 240 HORZ(LL): 0.021 H - - HORZ(TL): 0.048 H - - Creep Factor: 2.0 Max TC CSI: 0.708 Max BC CSI: 0.517 Max Web CSI: 0.941 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1525 - / - / /1082 /300 /247 L 554 - / - / /342 /96 /0 G 1267 - / - / /739 /400 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 L Brg Width = 3.5 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B, L, & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 861 -1309 B - C 1179 -2610 E - F 428 -649 C - D 1344 -2538

Lumber
Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Loading
Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

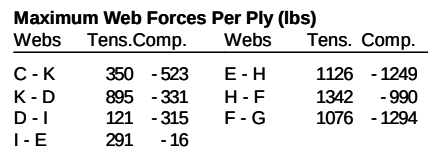
Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2280 -1315	I - H	2426 -1814
K - J	1553 -1020	H - G	0 0
J - I	1553 -1020		

Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	444 -645	E - H	909 -1069
K - D	1187 -465	H - F	1166 -769
D - I	303 -536	F - G	930 -1219
I - E	310 -27		

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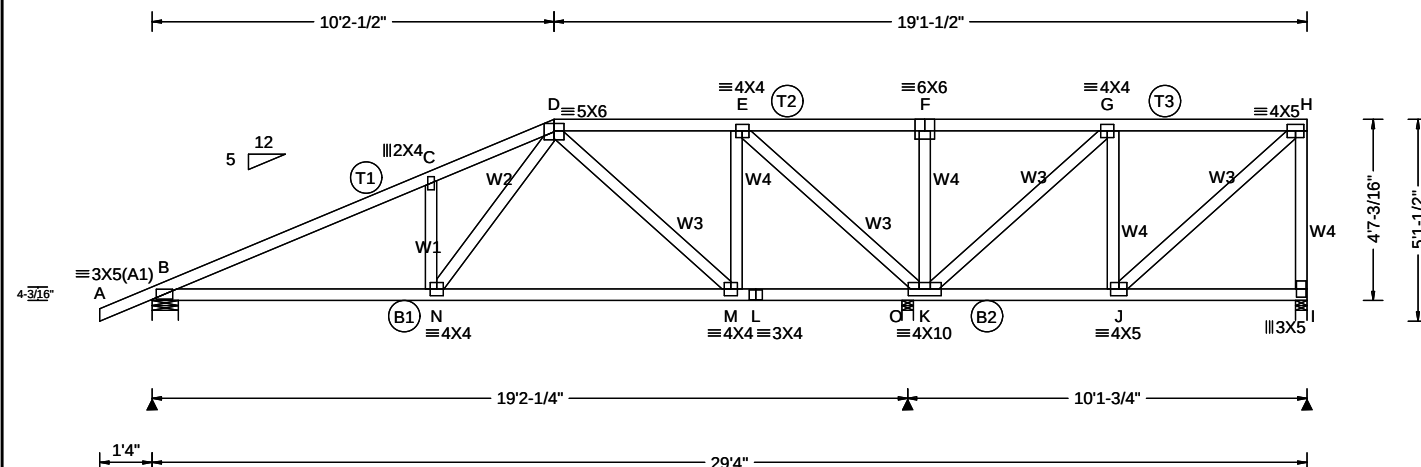




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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A16	Ply: 1 Qty: 2 Wgt: 168.0 lbs	SEQN: 29888 / T27 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Varies by Location FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.054 C 999 360 VERT(TL): 0.136 C 999 240 HORZ(LL): 0.018 J - - HORZ(TL): 0.045 J - - Creep Factor: 2.0 Max TC CSI: 0.858 Max BC CSI: 0.776 Max WB CSI: 0.801 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1168 -/- /- /- /377 -/ O 2523 -/- /0 -/- /721 /0 I 1540 -/- /- /- /380 -/ Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 O Brg Width = 3.5 Min Req = 1.7 I Brg Width = 3.5 Min Req = 1.5 Bearings B, O, & I are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 -20 E - F 82 -446 B - C 588 -1916 F - G 82 -446 C - D 558 -1854 G - H 296 -1238 D - E 269 -967

Lumber

Top chord: 2x4 SP #2; T3 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #2;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 83 plf at -1.33 to 83 plf at 19.63
TC: From 42 plf at 19.63 to 42 plf at 29.33
BC: From 20 plf at 0.00 to 20 plf at 19.73
BC: From 10 plf at 19.73 to 10 plf at 29.33
TC: 174 lb Conc. Load at 19.73,21.73,23.73,25.73
27.73
BC: 336 lb Conc. Load at 19.73,21.73,23.73,25.73
27.73

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - N	1676 -498	L - K	1915 -540
N - M	1197 -365	K - J	1237 -302
M - L	957 -270	J - I	0 0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - N	208 -450	K - G	320 -1145
N - D	787 -209	F - K	232 -536
D - M	133 -323	G - J	127 0
M - E	375 0	J - H	1666 -398
E - K	277 -870	H - I	357 -1326

RICHARD A. SIVER
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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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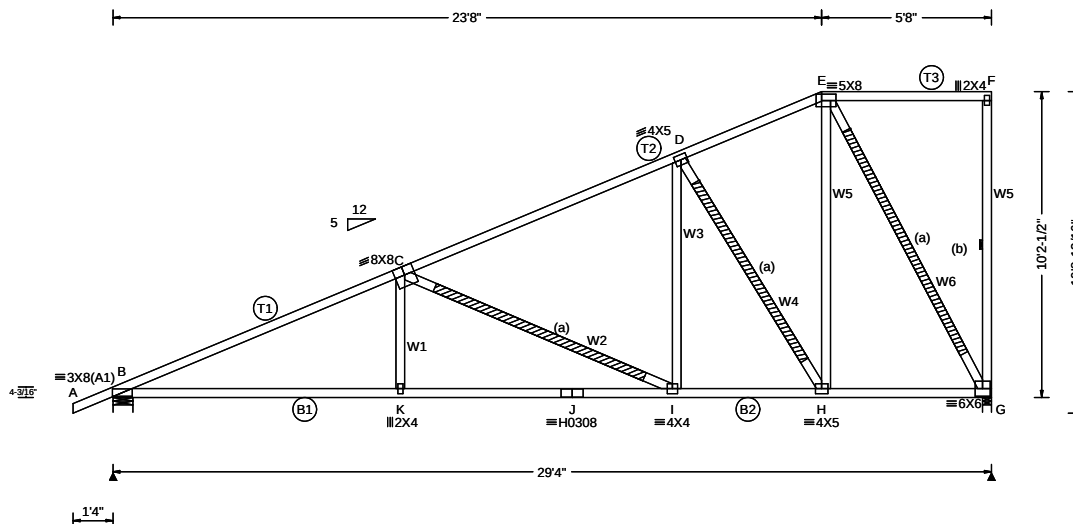
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A9	Ply: 1 Qty: 2 Wgt: 177.8 lbs	SEQN: 29895 / T2 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.095 K 999 360 VERT(TL): 0.222 K 999 240 HORZ(LL): 0.034 G - - HORZ(TL): 0.079 G - - Creep Factor: 2.0 Max TC CSI: 0.810 Max BC CSI: 0.766 Max Web CSI: 0.906 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1680 - / - / - /1242 /241 /401 G 1675 - / - / - /1082 /412 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 2.0 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 358 -958 B - C 816 -3022 E - F 0 0 C - D 486 -1741

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(b) Continuous lateral restraint equally spaced on member.

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2669	-1186	I - H	1440	-656
K - J	2664	-1188	H - G	781	-365
J - I	2664	-1188			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	416	0	E - H	1349	-422
C - I	591	-1320	E - G	736	-1573
I - D	734	-155	F - G	272	-236
D - H	565	-1283			

RICHARD A. SIVER

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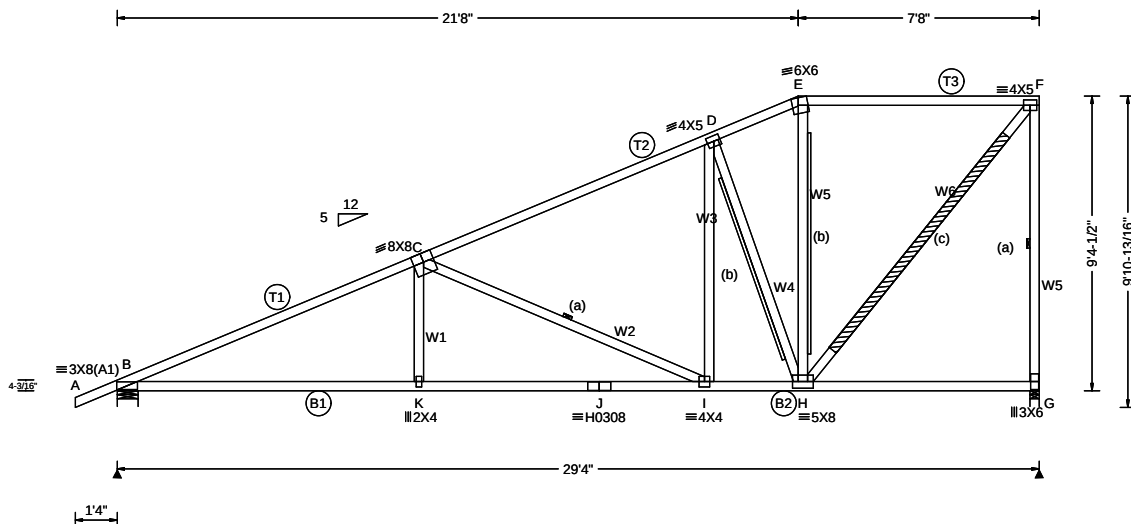
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A8	Ply: 1 Qty: 2 Wgt: 175.0 lbs	SEQN: 29897 / T6 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.090 K 999 360 VERT(TL): 0.213 K 999 240 HORZ(LL): 0.027 H - - HORZ(TL): 0.065 H - - Creep Factor: 2.0 Max TC CSI: 0.600 Max BC CSI: 0.752 Max Web CSI: 0.967 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1647 - / - / - /1238 /259 /369 G 1653 - / - / - /1051 /425 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 2.0 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 543 -1147 B - C 914 -2944 E - F 549 -1009 C - D 586 -1648

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

- (a) Continuous lateral restraint equally spaced on member.
- (b) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
- (c) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2598	-1235	I - H	1356	-699
K - J	2593	-1238	H - G	0	0
J - I	2593	-1238			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	419	0	E - H	337	-55
C - I	597	-1337	H - F	1582	-860
I - D	657	-175	F - G	978	-1493
D - H	422	-1012			

RICHARD A. SIVER

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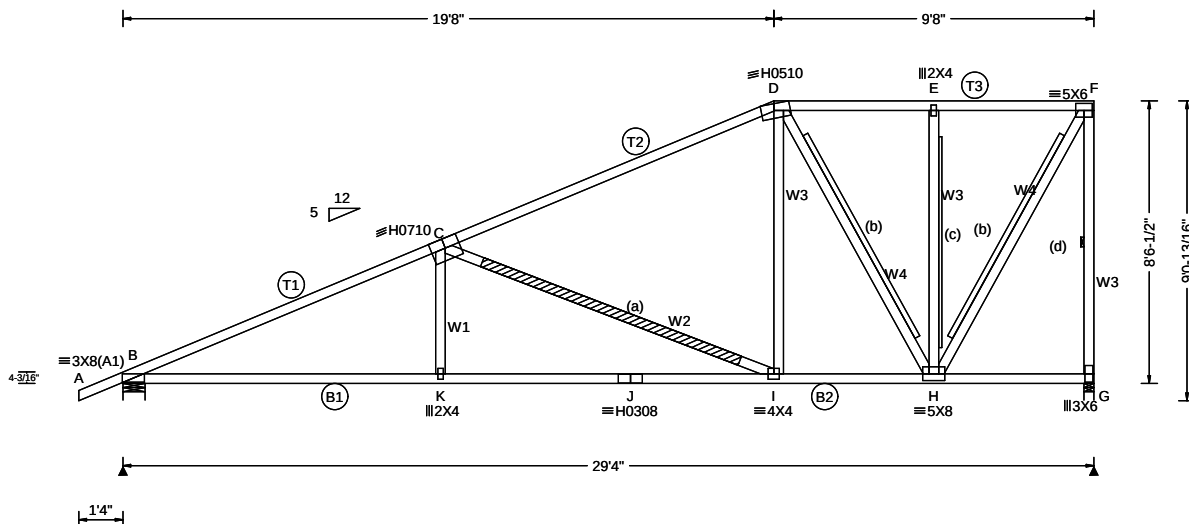
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A7	Ply: 1 Qty: 2 Wgt: 173.6 lbs	SEQN: 29899 / T5 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.092 K 999 360 VERT(TL): 0.218 K 999 240 HORZ(LL): 0.028 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.805 Max BC CSI: 0.479 Max Web CSI: 0.987 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1665 -/- /- /1232 /277 /336 G 1657 -/- /- /1024 /436 -/ Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 482 - 811 B - C 1033 -3002 E - F 481 - 811 C - D 659 -1598

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(d) Continuous lateral restraint equally spaced on member.

(c) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2655	-1301	I - H	1316	-715
K - J	2650	-1303	H - G	0	0
J - I	2650	-1303			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	430	0	E - H	480	-370
C - I	641	-1441	H - F	1605	-952
D - I	767	-142	F - G	1014	-1559
D - H	461	-998			

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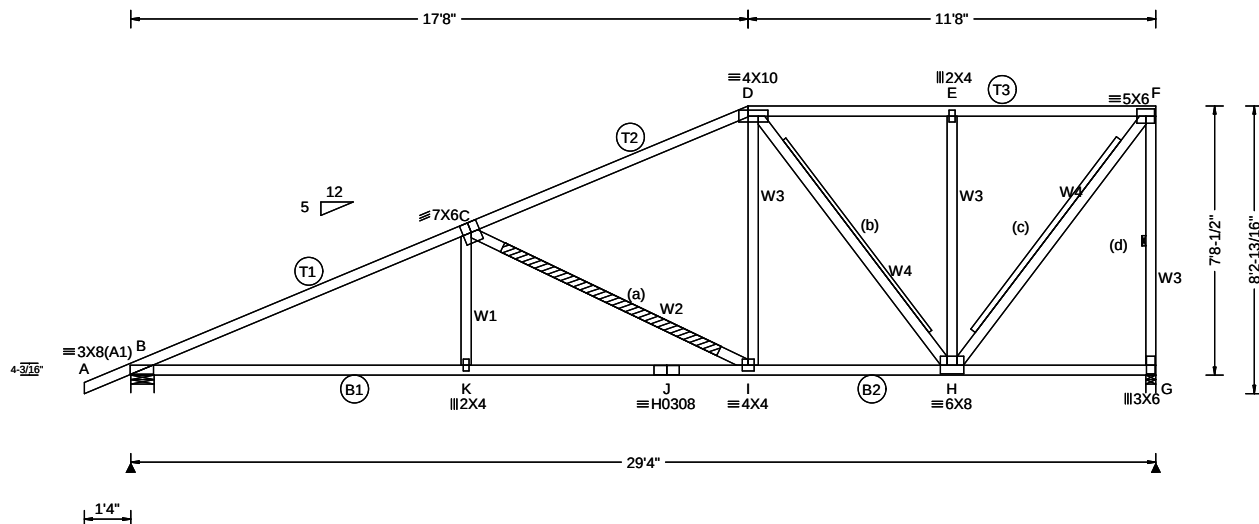
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A6	Ply: 1 Qty: 2 Wgt: 165.2 lbs	SEQN: 29901 / T7 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.088 K 999 360 VERT(TL): 0.205 K 999 240 HORZ(LL): 0.030 H - - HORZ(TL): 0.069 H - - Creep Factor: 2.0 Max TC CSI: 0.695 Max BC CSI: 0.710 Max Web CSI: 0.924 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1675 - / - /1223 /297 /303 G 1667 - / - /999 /447 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 2.0 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 656 -1070 B - C 1134 -2993 E - F 655 -1070 C - D 856 -1836

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

- (d) Continuous lateral restraint equally spaced on member.
- (b) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
- (c) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.
- (a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
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Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2639	-1343	I - H	1560	-874
K - J	2634	-1345	H - G	0	0
J - I	2634	-1345			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	395	0	H - F	1731	-1060
C - I	531	-1206	E - H	636	-537
D - I	745	-159	F - G	1056	-1556
D - H	353	-793			

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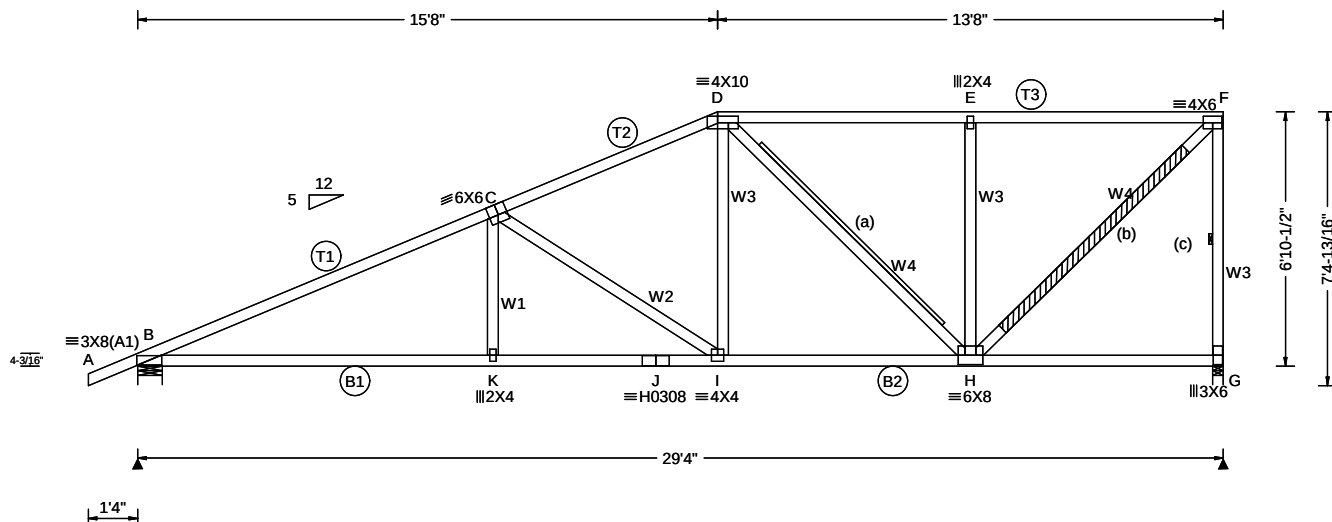
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A5	Ply: 1 Qty: 2 Wgt: 159.6 lbs	SEQN: 29903 / T4 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.085 K 999 360 VERT(TL): 0.197 K 999 240 HORZ(LL): 0.029 H - - HORZ(TL): 0.067 H - - Creep Factor: 2.0 Max TC CSI: 0.861 Max BC CSI: 0.733 Max Web CSI: 0.935 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 1683 - / - /1211 /318 /271 G 1664 - / - /976 /456 - Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 2.0 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 890 -1368 B - C 1300 -2991 E - F 890 -1368 C - D 1105 -2081

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(c) Continuous lateral restraint equally spaced on member.

(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2634 -1462	I - H	1812 -1093
K - J	2630 -1464	H - G	0 0
J - I	2630 -1464		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - C	359 0	E - H	760 -667
C - I	449 -990	H - F	1899 -1235
D - I	740 -181	F - G	1115 -1540
D - H	282 -616		

RICHARD A. SIVER

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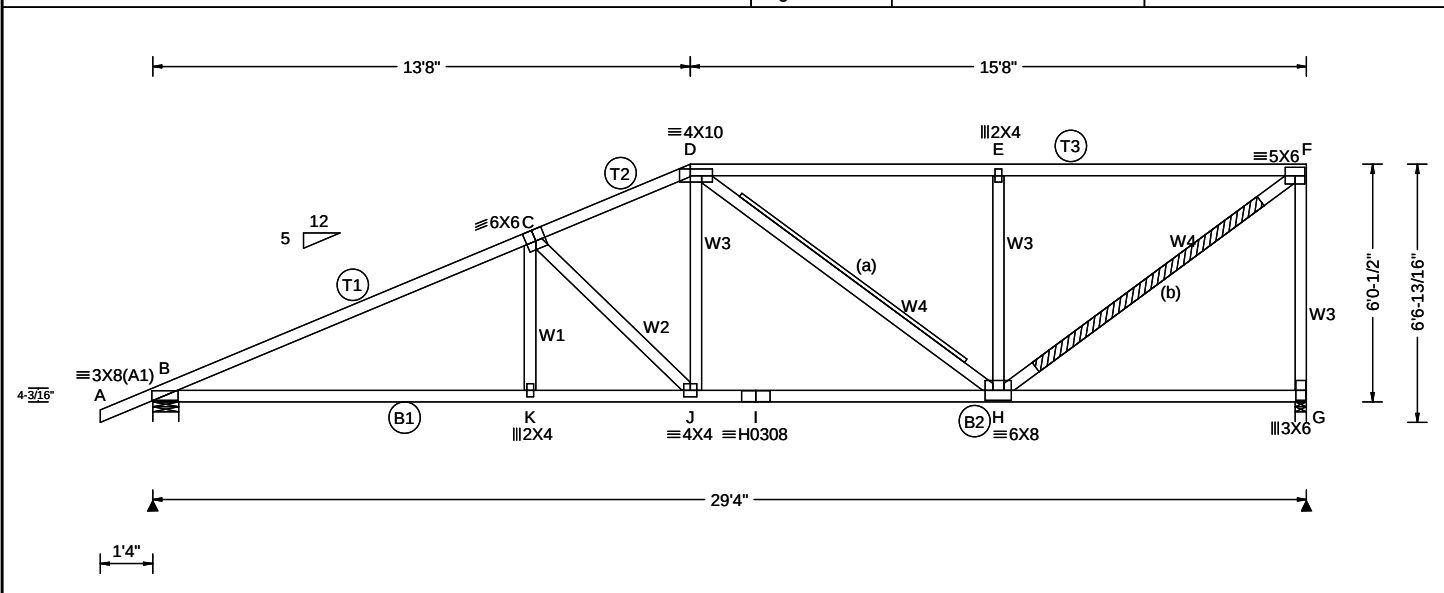
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A4	Ply: 1 Qty: 2 Wgt: 155.4 lbs	SEQN: 29905 / T3 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.081 J 999 360 VERT(TL): 0.191 J 999 240 HORZ(LL): 0.025 H - - HORZ(TL): 0.058 H - - Creep Factor: 2.0 Max TC CSI: 0.777 Max BC CSI: 0.449 Max Web CSI: 0.973 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1686 - / - / - /1197 /340 /238 G 1644 - / - / - /957 /464 - Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.5 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 1159 -1716 B - C 1440 -2994 E - F 1159 -1715 C - D 1340 -2326

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.
(b) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2635 -1543	I - H	2059 -1284
K - J	2631 -1544	H - G	0 0
J - I	2059 -1284		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
K - C	331 0	E - H	872 -777
C - J	373 -819	H - F	2128 -1437
D - J	749 -201	F - G	1145 -1512
D - H	155 -426		

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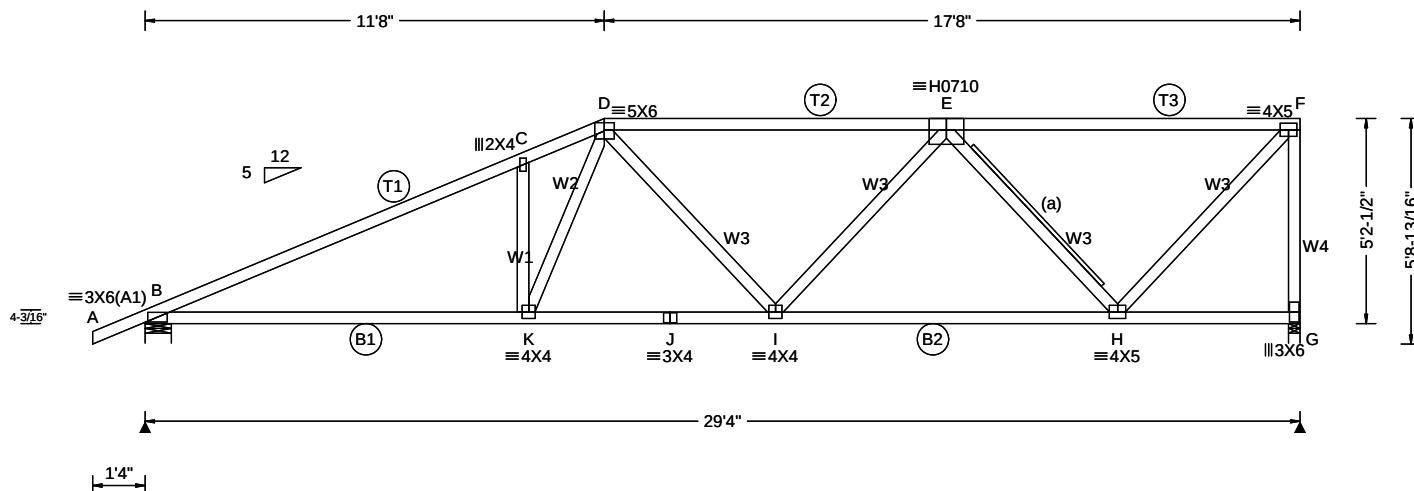
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A3	Ply: 1 Qty: 2 Wgt: 148.4 lbs	SEQN: 29871 / T30 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.074 C 999 360 VERT(TL): 0.190 C 999 240 HORZ(LL): 0.028 H - - HORZ(TL): 0.073 H - - Creep Factor: 2.0 Max TC CSI: 0.643 Max BC CSI: 0.827 Max Web CSI: 0.844 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1637 - / - / - /1180 /512 /284 G 1505 - / - / - /940 /510 - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.8 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 1484 -2169 B - C 1600 -2885 E - F 755 -1119 C - D 1739 -2803

Lumber
Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing
(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)			
Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2539 -1646	I - H	2027 -1546
K - J	2193 -1503	H - G	0 0
J - I	2193 -1503		

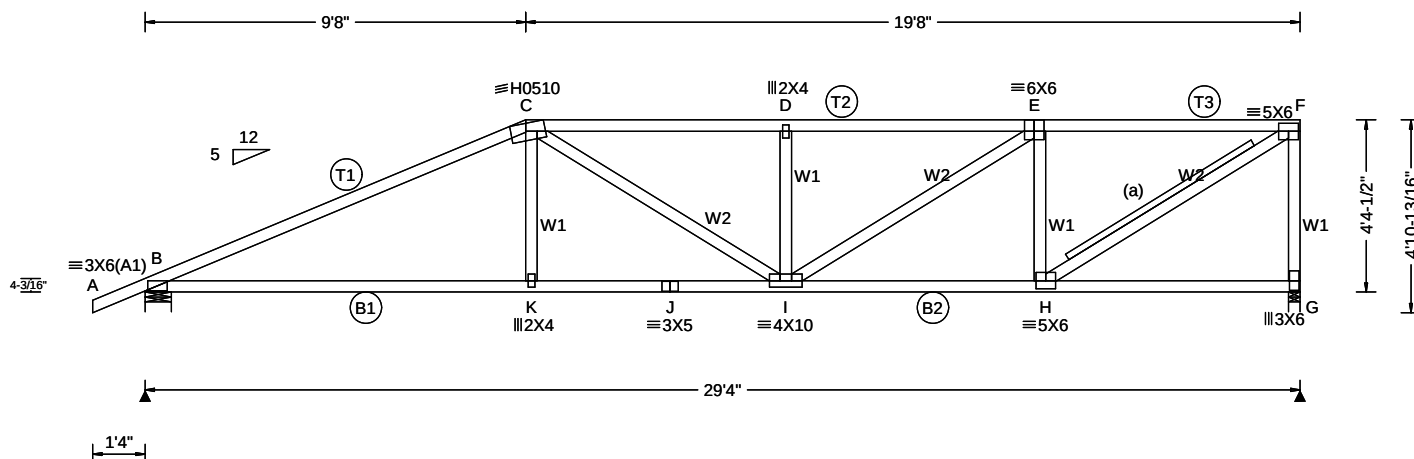
Maximum Web Forces Per Ply (lbs)			
Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	395 -608	E - H	1195 -1372
K - D	866 -349	H - F	1631 -1100
D - I	122 -56	F - G	1142 -1481
I - E	330 0		

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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A2	Ply: 1 Qty: 2 Wgt: 147.0 lbs	SEQN: 29872 / T18 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cē: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.094 D 999 360 VERT(TL): 0.241 D 999 240 HORZ(LL): 0.027 H - - HORZ(TL): 0.069 H - - Creep Factor: 2.0 Max TC CSI: 0.770 Max BC CSI: 0.688 Max Web CSI: 0.990 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 1637 - / - / - /1160 /520 /239 G 1505 - / - / - /925 /503 - / - Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 G Brg Width = 3.5 Min Req = 1.8 Bearings B & G are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 43 0 D - E 1981 - 2711 B - C 1751 - 2870 E - F 1446 - 1939 C - D 1981 - 2712

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(a) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" oc.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
B - K	2521 - 1735	I - H	2016 - 1517
K - J	2529 - 1732	H - G	0 0
J - I	2529 - 1732		

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.
C - K	376 0	E - H	1007 - 1076
C - I	224 - 365	H - F	2294 - 1710
D - I	587 - 466	F - G	1178 - 1453
I - E	828 - 595		

RICHARD A. SIVER
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#65698

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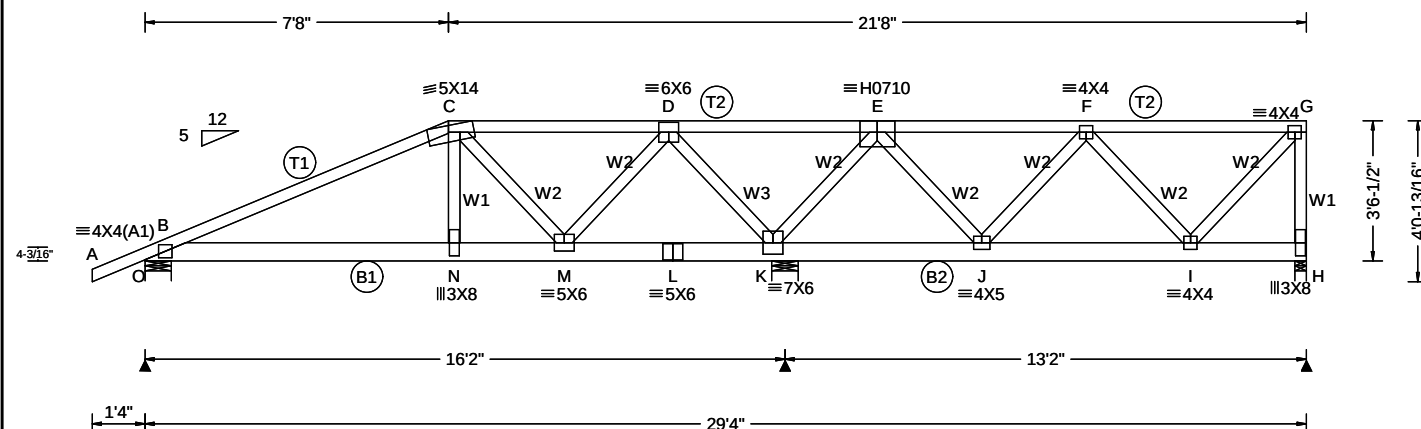
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A1	Ply: 1 Qty: 2 Wgt: 163.8 lbs	SEQN: 29890 / T17 / HIPM FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Varies by FT/RT: 20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.044 N 999 360 VERT(TL): 0.111 N 999 240 HORZ(LL): 0.010 H - - HORZ(TL): 0.025 H - - Creep Factor: 2.0 Max TC CSI: 0.830 Max BC CSI: 0.731 Max WB CSI: 0.821 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL O 1414 -/- /- /- /477 -/ K 5179 -/- /- /- /1794 -/ H 1121 -/- /- /- /392 -/ Non-Gravity Wind reactions based on MWFRS O Brg Width = 8.0 Min Req = 1.7 K Brg Width = 8.0 Min Req = 6.1 H Brg Width = 3.5 Min Req = 1.5 Bearings O, K, & H are a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber Top chord: 2x4 SP M-31; T1 2x4 SP #2; Bot chord: 2x6 SP #2; Webs: 2x4 SP #2; W3 2x4 SP M-31; Special Loads ----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 83 plf at -1.33 to 83 plf at 7.67 TC: From 42 plf at 7.67 to 42 plf at 29.33 BC: From 20 plf at 0.00 to 20 plf at 7.70 BC: From 10 plf at 7.70 to 10 plf at 29.33 TC: 404 lb Conc. Load at 7.70 TC: 282 lb Conc. Load at 9.73,11.73,13.73,15.73 17.73,19.73,21.73,23.73,25.73,27.73 BC: 975 lb Conc. Load at 7.70 BC: 145 lb Conc. Load at 9.73,11.73,13.73,15.73 17.73,19.73,21.73,23.73,25.73,27.73 Purlins In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc Wind Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.	Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - N 2221 -738 K - J 165 -720 N - M 2275 -747 J - I 1025 -414 M - L 18 -254 I - H 19 -11 L - K 18 -254 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. C - N 1170 -210 E - J 1531 -403 C - M 635 -1766 J - F 502 -1000 M - D 2019 -522 F - I 338 -493 D - K 1311 -3363 I - G 1016 -276 K - E 1081 -2707 G - H 393 -1080
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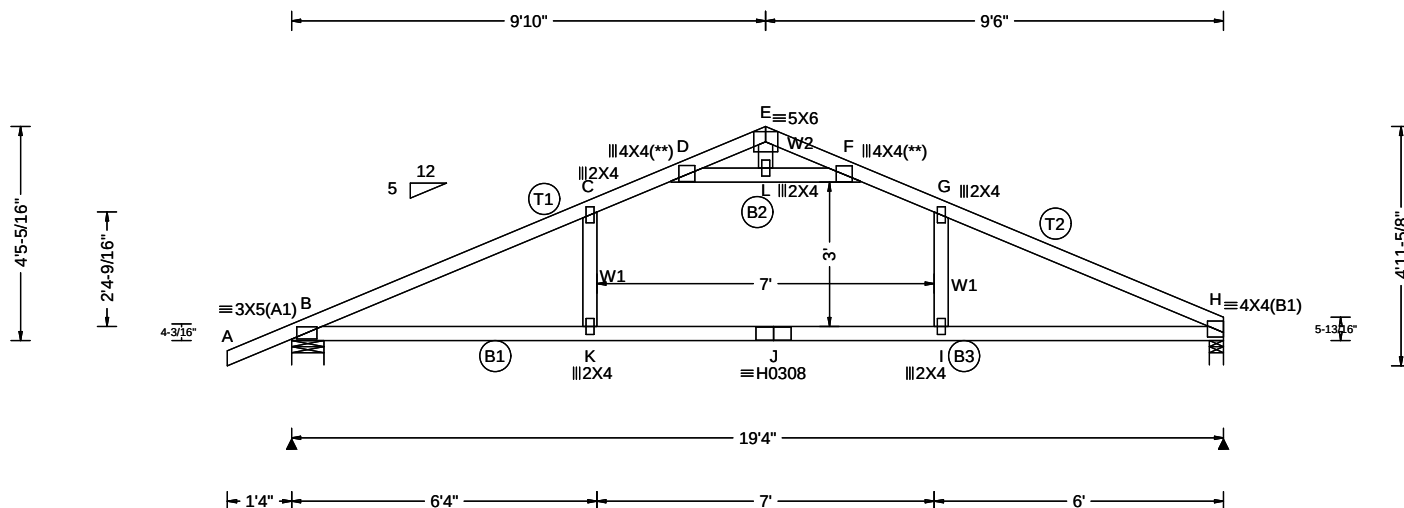
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING! **IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBICA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBICA: www.sbicaindustry.com; ICC: www.iccsafe.org	SCOSTA CORPORATION WOOD, STEEL OR TIMBER ROOF OR FLOOR TRUSSES 3670 COMMERCE CENTER DRIVE SEBRING, FL 33870 (863)385-8242
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Job Number: DR1503-160C
D.R. HORTON /1503 F TWIN VILLA /KKD
Truss Label: A17

Ply: 1
Qty: 8
Wgt: 79.8 lbs

SEQN: 29873 / T15 / SPEC
FROM:

DRW:
... / ... 02/17/2021



Loading Criteria (psf)	
TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria	
Wind Std:	ASCE 7-16
Speed:	160 mph
Enclosure:	Closed
Risk Category:	II
EXP:	C
Mean Height:	15.00 ft
TCDL:	4.0 psf
BCDL:	6.0 psf
MWFRS Parallel Dist:	0 to h/2
C&C Dist a:	3.00 ft
Loc. from endwall:	not in 4.50 ft
GCpi:	0.18
Wind Duration:	1.60

Snow Criteria (Pg,Pf in PSF)		
Pg: NA	Ct: NA	CAT: NA
Pf: NA	Ce: NA	
Lu: NA	Cs: NA	
Snow Duration:	NA	

Code / Misc Criteria	
Bldg Code:	FBC 7th Ed. 2015
TPI Std:	2014
Rep Factors Used:	Varies by Location
FT/RT:	20(0)/10(0)
Plate Type(s):	WAVE, HS

Defl/CSI Criteria			
PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.201	K	999 360
VERT(TL):	0.555	K	411 240
HORZ(LL):	0.082	C	- -
HORZ(TL):	0.227	C	- -
Creep Factor:	2.0		
Max TC CSI:	0.696		
Max BC CSI:	0.482		
Max WB CSI:	0.101		
Mfg Specified Camber:			

VIEW Ver: 20.02.00A.1020.21

▲ Maximum Reactions (lbs)						
Loc	Gravity			Non-Gravity		
	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1252	/-	/-	/787	/382	/160
H	1137	/-	/-	/659	/341	/-
Wind reactions based on MWFRS						
B	Brg Width = 8.0		Min Req = 1.5			
H	Brg Width = 3.5		Min Req = 1.5			
Bearings B & H are a rigid surface.						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Comp.		Chords	Tens. Comp.		
A - B	43	-17	E - F	338	-71	
B - C	796	-2025	F - G	836	-1740	
C - D	827	-1733	G - H	803	-2027	
D - E	343	-74				

Maximum Bot Chord Forces Per Ply (lbs)				
Chords	Tens.Comp.		Chords	Tens. Comp.
B - K	1746	-636	J - I	1752 -634
K - J	1752	-634	I - H	1746 -635

Maximum Web Forces Per Ply (lbs)				
Webs	Tens.Comp.		Webs	Tens. Comp.
C - K	447	-87	L - F	950 -2149
D - L	950	-2149	I - G	439 -80
E - L	393	-171		

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 83 plf at -1.33 to 83 plf at 19.33
BC: From 20 plf at 0.00 to 20 plf at 6.33
BC: From 60 plf at 6.33 to 60 plf at 13.33
BC: From 20 plf at 13.33 to 20 plf at 19.33

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

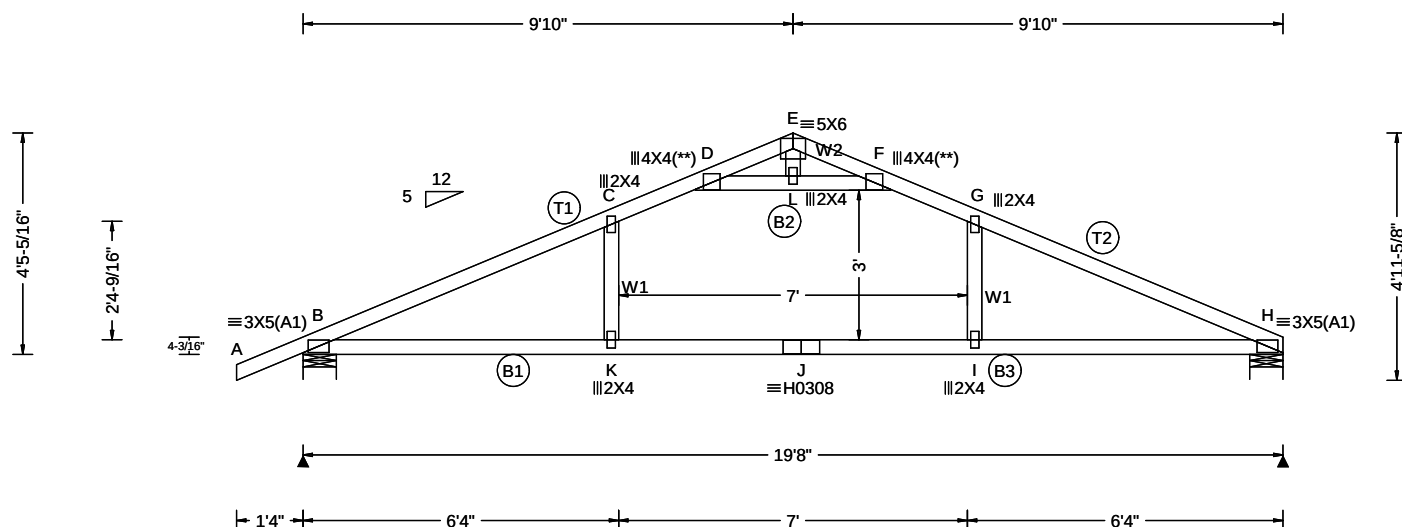
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Loading Criteria (psf) TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.200 I 999 360 VERT(TL): 0.505 K 460 240 HORZ(LL): 0.073 C - - HORZ(TL): 0.205 C - - Creep Factor: 2.0 Max TC CSI: 0.692 Max BC CSI: 0.458 Max DB CSI: 0.104 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	▲ Maximum Reactions (lbs) <table><tr><th colspan="3">Gravity</th><th colspan="3">Non-Gravity</th></tr><tr><th>Loc</th><th>R+</th><th>/ R-</th><th>/ Rh</th><th>/ Rw</th><th>/ U / RL</th></tr><tr><td>B</td><td>1272</td><td>- / -</td><td>- / -</td><td>/796</td><td>/388</td><td>/163</td></tr><tr><td>H</td><td>1151</td><td>- / -</td><td>- / -</td><td>/674</td><td>/341</td><td>- / -</td></tr></table> Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 H Brg Width = 8.0 Min Req = 1.5 Bearings B & H are a rigid surface.						Gravity			Non-Gravity			Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL	B	1272	- / -	- / -	/796	/388	/163	H	1151	- / -	- / -	/674	/341	- / -
				Gravity			Non-Gravity																												
				Loc	R+	/ R-	/ Rh	/ Rw	/ U / RL																										
				B	1272	- / -	- / -	/796	/388	/163																									
		H	1151	- / -	- / -	/674	/341	- / -																											
Maximum Top Chord Forces Per Ply (lbs) <table><tr><th>Chords</th><th>Tens.Comp.</th><th>Chords</th><th>Tens. Comp.</th></tr><tr><td>A - B</td><td>43</td><td>- 17</td><td>E - F 378</td></tr><tr><td>B - C</td><td>1121</td><td>- 2104</td><td>F - G 1147</td></tr><tr><td>C - D</td><td>1145</td><td>- 1806</td><td>G - H 1123</td></tr><tr><td>D - E</td><td>377</td><td>- 85</td><td></td></tr></table>						Chords	Tens.Comp.	Chords	Tens. Comp.	A - B	43	- 17	E - F 378	B - C	1121	- 2104	F - G 1147	C - D	1145	- 1806	G - H 1123	D - E	377	- 85											
Chords	Tens.Comp.	Chords	Tens. Comp.																																
A - B	43	- 17	E - F 378																																
B - C	1121	- 2104	F - G 1147																																
C - D	1145	- 1806	G - H 1123																																
D - E	377	- 85																																	

Lumber

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2:

Special Loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	83 plf at	-1.33 to	83 plf at	19.67
BC: From	20 plf at	0.00 to	20 plf at	6.33
BC: From	60 plf at	6.33 to	60 plf at	13.33
BC: From	20 plf at	13.33 to	20 plf at	19.67

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
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#65698

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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

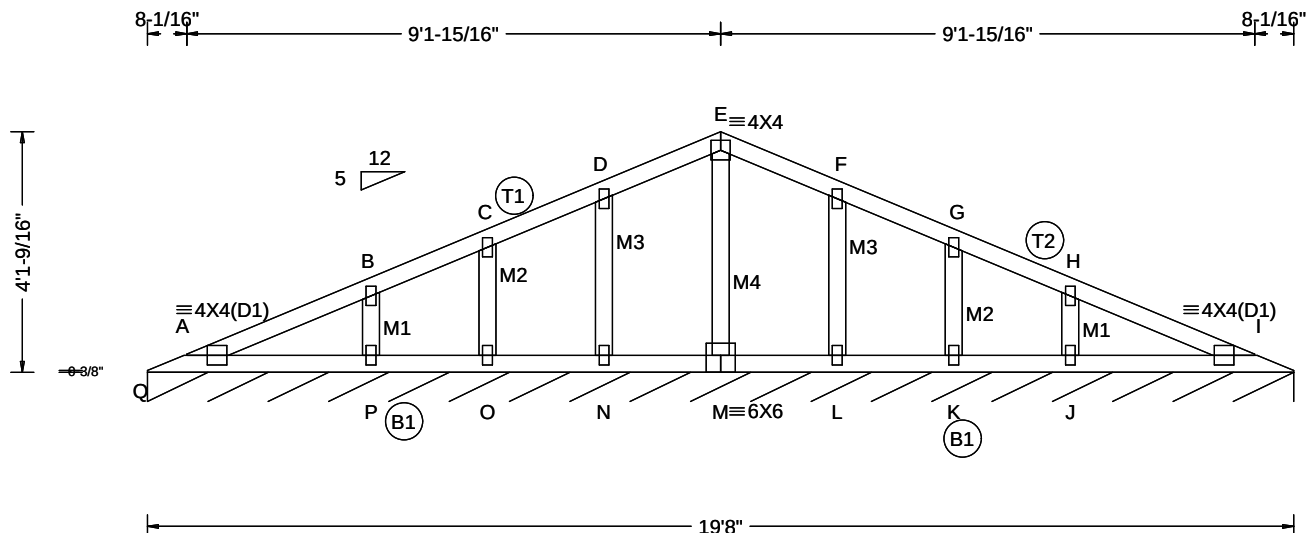
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: A19	Ply: 1 Qty: 2 Wgt: 81.2 lbs	SEQN: 29875 / T1 / GABL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.007 J 999 360 VERT(TL): 0.017 J 999 240 HORZ(LL): 0.002 P - - HORZ(TL): 0.005 P - - Creep Factor: 2.0 Max TC CSI: 0.195 Max BC CSI: 0.124 Max Web CSI: 0.052 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL Q* 103 /- /- /62 /29 /7 Wind reactions based on MWFRS Q Brg Width = 236 Min Req = - Bearing Q is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 120 -98 E - F 178 0 B - C 95 -25 F - G 112 -9 C - D 112 -9 G - H 95 -25 D - E 178 0 H - I 120 -98

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Plating Notes

All plates are 2X4 except as noted.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

See standard gable detail for more requirements.

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.
A - P	138 -92	M - L	158 -105
P - O	149 -100	L - K	153 -102
O - N	153 -102	K - J	149 -100
N - M	158 -105	J - I	138 -92

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.Comp.	Gables	Tens. Comp.
B - P	239 -252	L - F	271 -193
C - O	153 -131	K - G	153 -131
D - N	271 -193	J - H	239 -252
E - M	19 -199		

PLATING NOTES

All plates are 2X4 except as noted.

RICHARD A. SIVER

P.E.

#65698

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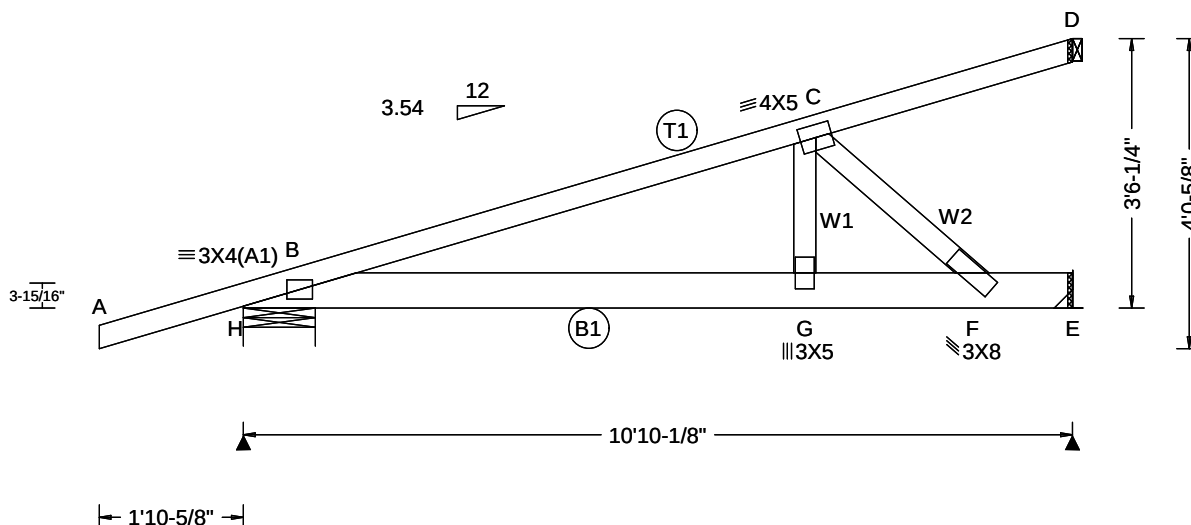
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: CJ11	Ply: 1 Qty: 2 Wgt: 51.8 lbs	SEQN: 29889 / T22 / HIP_ FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 0.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 0.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: NA GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: No FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.040 G 999 360 VERT(TL): 0.102 G 999 240 HORZ(LL): 0.006 C - - HORZ(TL): 0.015 C - - Creep Factor: 2.0 Max TC CSI: 0.629 Max BC CSI: 0.584 Max Web CSI: 0.149 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL H 603 -/- /- /- /208 -/ E 830 -/- /- /- /238 -/ D 122 -/- /- /- /64 -/ Non-Gravity Wind reactions based on MWFRS H Brg Width = 11.3 Min Req = 1.5 E Brg Width = - Min Req = - D Brg Width = 1.5 Min Req = - Bearing H is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 28 -13 C - D 53 -96 B - C 376 -1154

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x6 SP M-14;
Webs: 2x4 SP #2;

Loading

Hipjack supports 7-8-0 setback jacks. Jacks up to 7' have no webs. Longer jacks supported to BC.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

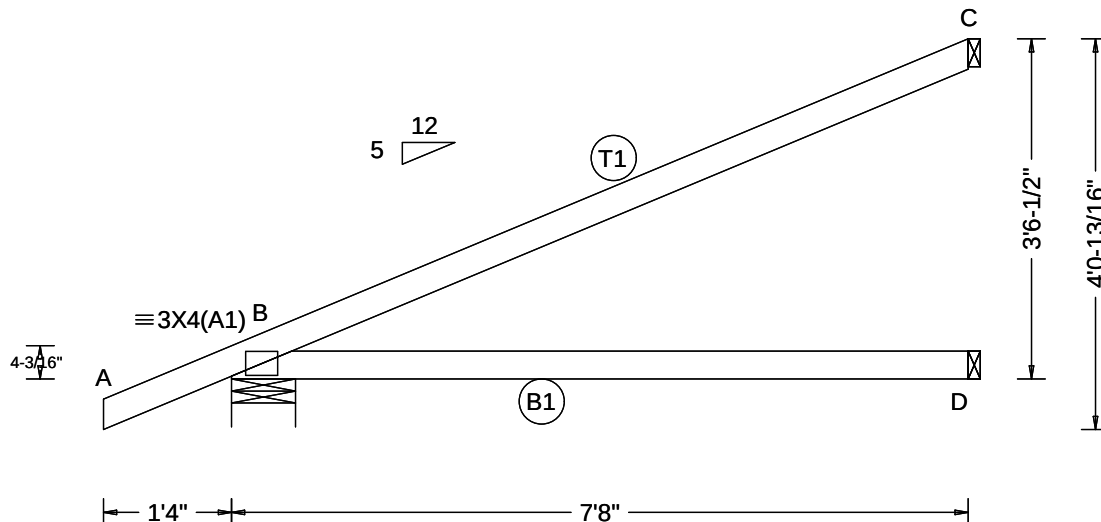
Provide hanger or special connection at right end of truss for 830 lbs.
Provide (2) 16d toe-nails at top chord.

RICHARD A. SIVER
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#65698

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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: EJ8	Ply: 1 Qty: 22 Wgt: 25.2 lbs	SEQN: 29876 / T33 / EJAC FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.017 D - - HORZ(TL): 0.042 D - - Creep Factor: 2.0 Max TC CSI: 0.470 Max BC CSI: 0.651 Max Web CSI: 0.000 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 527 /- /- /425 /141 /194 D 145 /- /- /85 /- /- C 282 /- /- /208 /173 /- Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

Maximum Bot Chord Forces Per Ply (lbs)

Chords Tens.Comp.

B - D 0 0

RICHARD A. SIVER
P.E.
#65698

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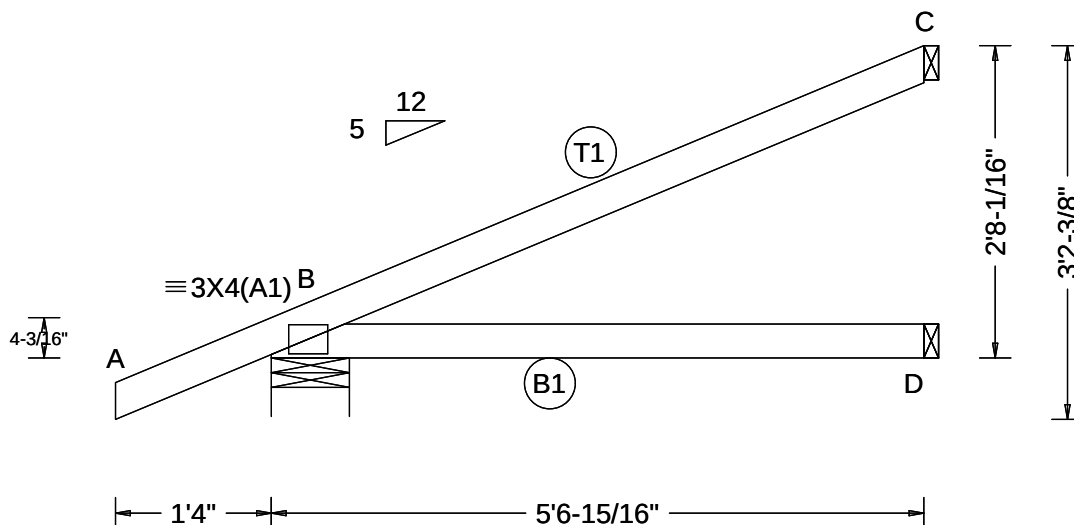
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: J6	Ply: 1 Qty: 4 Wgt: 19.6 lbs	SEQN: 29877 / T24 / JACK FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.007 D - - HORZ(TL): 0.017 D - - Creep Factor: 2.0 Max TC CSI: 0.585 Max BC CSI: 0.339 Max Web CSI: 0.000 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 424 /- /- /350 /118 /147 D 107 /- /- /62 /- /- C 194 /- /- /142 /120 /- Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

A - B 43 0 B - C 75 -128

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp.

B - D 0 0

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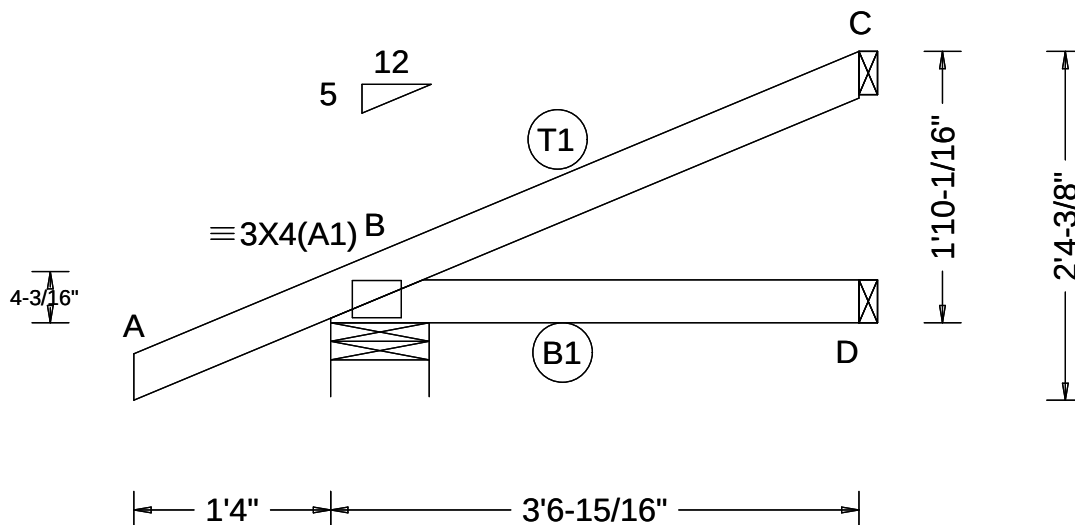
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: J4	Ply: 1 Qty: 4 Wgt: 14.0 lbs	SEQN: 29878 / T35 / JACK FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: not in 4.50 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.001 D - - HORZ(TL): 0.003 D - - Creep Factor: 2.0 Max TC CSI: 0.216 Max BC CSI: 0.111 Max Web CSI: 0.000 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL B 330 /- /- /285 /99 /103 D 64 /- /- /36 /- /- C 113 /- /- /79 /72 /- Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

A - B 43 0 B - C 43 -81

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp.

B - D 0 0

RICHARD A. SIVER
P.E.
#65698

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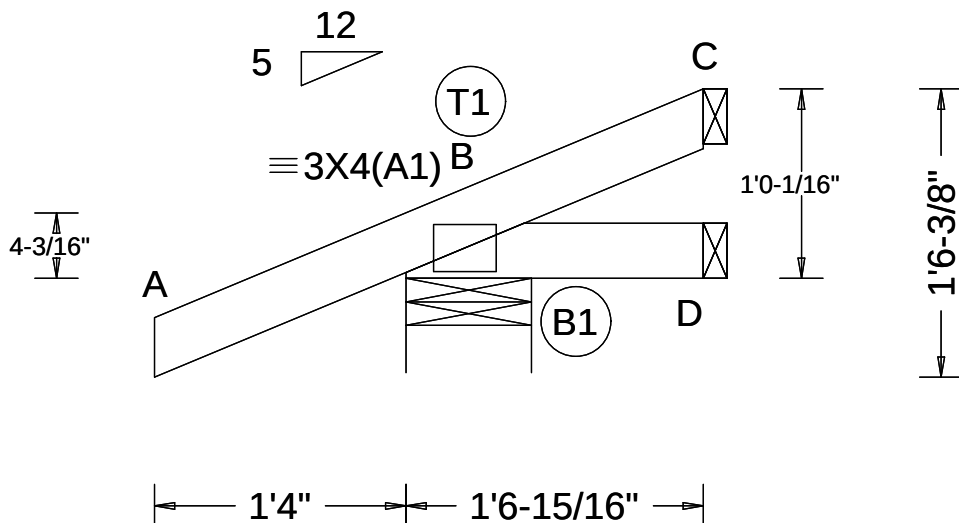
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: J2	Ply: 1 Qty: 4 Wgt: 8.4 lbs	SEQN: 29879 / T34 / JACK FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Cē: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.000 D - - HORZ(TL): 0.001 D - - Creep Factor: 2.0 Max TC CSI: 0.294 Max BC CSI: 0.053 Max Web CSI: 0.000 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 264 /- /- /249 /99 /58 D 17 /-1 /- /21 /8 /- C 11 /- /- /26 /24 /- Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

A - B 43 0 B - C 10 -28

Maximum Bot Chord Forces Per Ply (lbs)
Chords Tens.Comp.

B - D 0 0

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#65698

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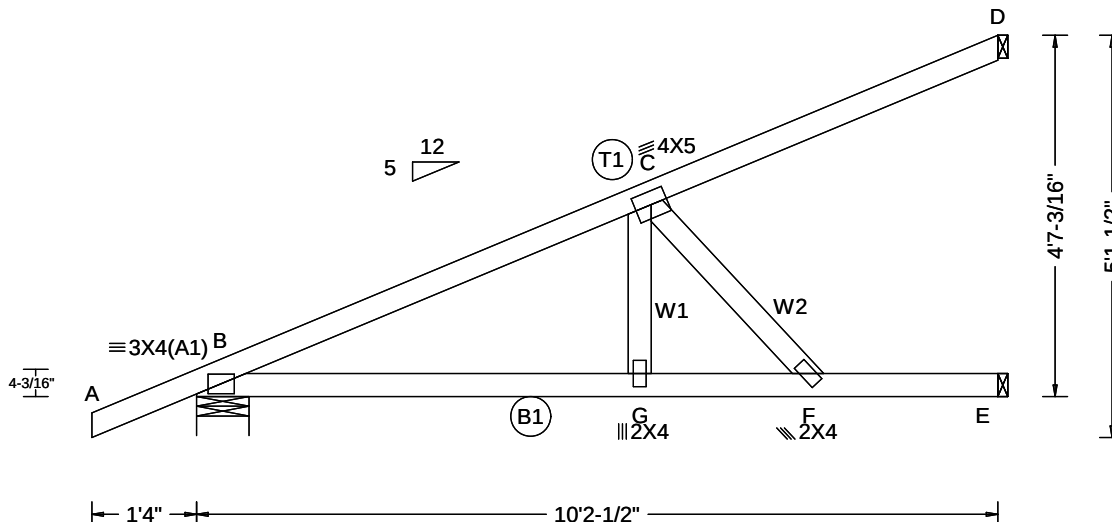
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: EJ2	Ply: 1 Qty: 10 Wgt: 46.2 lbs	SEQN: 29880 / T21 / JACK FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.150 F 804 360 VERT(TL): 0.379 F 318 240 HORZ(LL): 0.047 C - - HORZ(TL): 0.119 C - - Creep Factor: 2.0 Max TC CSI: 0.435 Max BC CSI: 0.580 Max Web CSI: 0.193 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL B 655 -/- /- /518 /87 /182 E 336 -/- /- /269 /56 -/ D 174 -/- /- /130 /70 -/ Non-Gravity Wind reactions based on MWFRS B Brg Width = 8.0 Min Req = 1.5 E Brg Width = 1.5 Min Req = - D Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

Provide (2) 16d toe-nails at top chord.
Provide (3) 16d toe-nails at bottom chord.

A - B	43	0	C - D	67	-95
B - C	267	-749			

Chords	Tens.Comp.	Chords	Tens. Comp.
B - G	611 -494	F - E	0 0
G - F	592 -484		

Webs	Tens.Comp.	Webs	Tens. Comp.
G - C	547 -277	C - F	730 -891

RICHARD A. SIVER
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#65698

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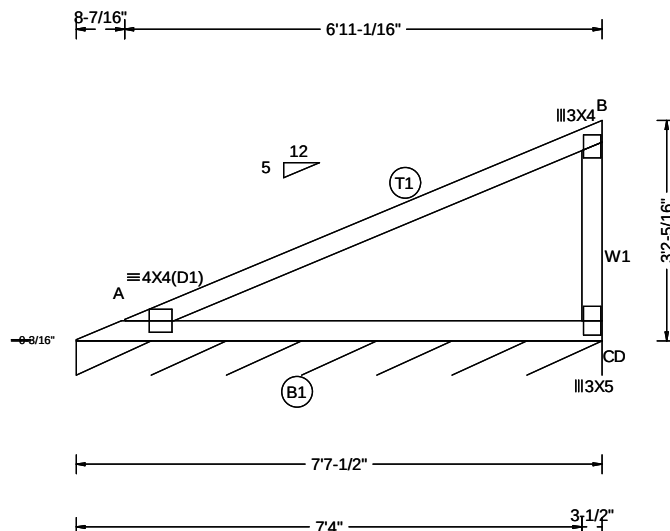
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: V4	Ply: 1 Qty: 2 Wgt: 26.6 lbs	SEQN: 29881 / T19 / VAL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.017 C - - HORZ(TL): 0.045 C - - Creep Factor: 2.0 Max TC CSI: 0.925 Max BC CSI: 0.291 Max Web CSI: 0.233 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 103 /- /- /73 /15 /15 Wind reactions based on MWFRS D Brg Width = 91.5 Min Req = - Bearing A is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 54 -147 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 229 -26 Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. B - C 324 -255

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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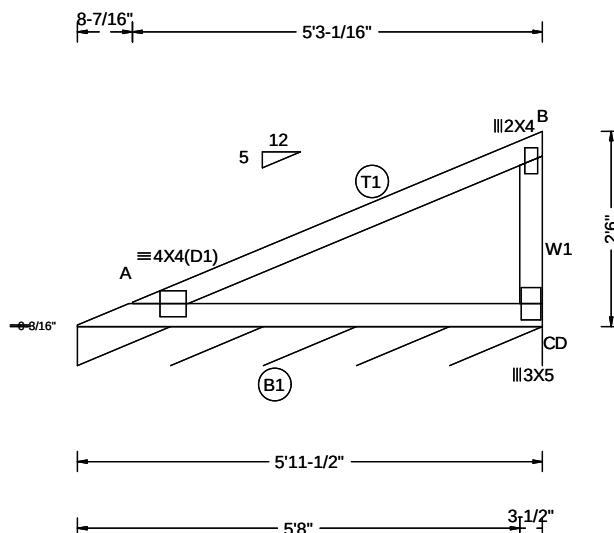
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SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: V3	Ply: 1 Qty: 2 Wgt: 19.6 lbs	SEQN: 29882 / T16 / VAL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.010 C - - HORZ(TL): 0.025 C - - Creep Factor: 2.0 Max TC CSI: 0.563 Max BC CSI: 0.417 Max Web CSI: 0.147 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 103 /- /- /71 /14 /14 Wind reactions based on MWFRS D Brg Width = 71.5 Min Req = - Bearing A is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 47 -101 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 195 -21

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

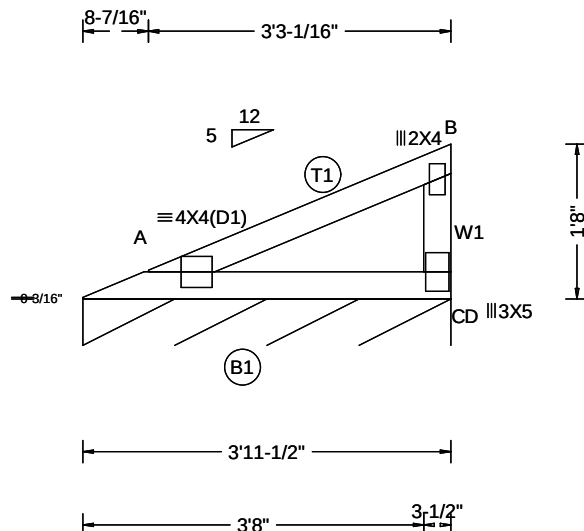
Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
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#65698

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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: V2	Ply: 1 Qty: 2 Wgt: 14.0 lbs	SEQN: 29883 / T23 / VAL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): NA VERT(TL): NA HORZ(LL): 0.003 C - - HORZ(TL): 0.007 C - - Creep Factor: 2.0 Max TC CSI: 0.260 Max BC CSI: 0.213 Max Web CSI: 0.073 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 103 /- /- /68 /12 /13 Wind reactions based on MWFRS D Brg Width = 47.5 Min Req = - Bearing A is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 35 - 74 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 173 - 15

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

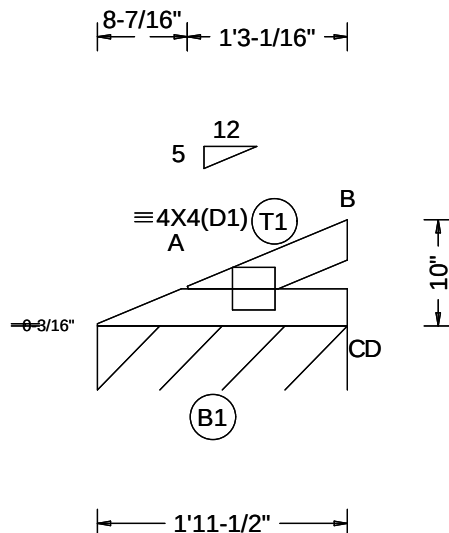
See applicable standard valley or piggyback details for more requirements.

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#65698

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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: V1	Ply: 1 Qty: 2 Wgt: 5.6 lbs	SEQN: 29884 / T26 / VAL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.003 B 999 360 VERT(TL): 0.008 B 999 240 HORZ(LL): 0.001 B - - HORZ(TL): 0.003 B - - Creep Factor: 2.0 Max TC CSI: 0.045 Max BC CSI: 0.094 Max Web CSI: 0.000 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 102 /- /- /57 /14 /13 Wind reactions based on MWFRS D Brg Width = 23.5 Min Req = - Bearing A is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 0 -19 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 73 -7

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Wind loading based on both gable and hip roof types.

Additional Notes

See applicable standard valley or piggyback details for more requirements.

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P.E.
#65698

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

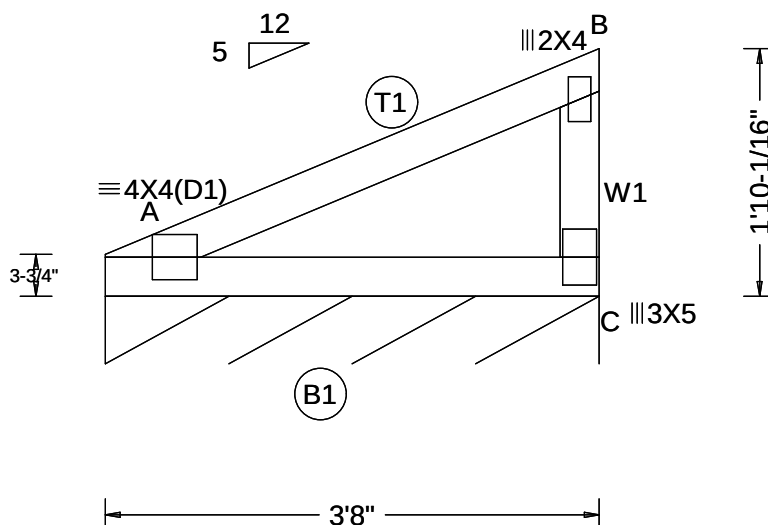
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org



[illegible]

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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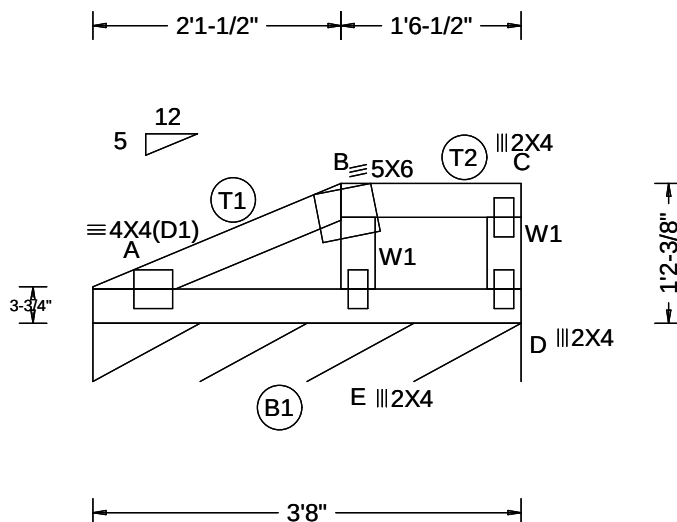
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Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: PB1	Ply: 1 Qty: 2 Wgt: 15.4 lbs	SEQN: 29886 / T10 / VAL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 21.13 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.001 E 999 360 VERT(TL): 0.002 E 999 240 HORZ(LL): 0.000 E - - HORZ(TL): 0.001 E - - Creep Factor: 2.0 Max TC CSI: 0.091 Max BC CSI: 0.067 Max Web CSI: 0.050 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Loc R+ / R- / Rh / Rw / U / RL D* 103 /- /- /69 /30 /10 Wind reactions based on MWFRS D Brg Width = 44.0 Min Req = - Bearing A is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - B 10 -44 B - C 5 -2 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - E 86 -6 E - D 131 -10

Lumber Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #2;	Purlins In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc
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Wind End verticals not exposed to wind pressure. Wind loading based on both gable and hip roof types.	Additional Notes See applicable standard valley or piggyback details for more requirements.
--	---

RICHARD A. SIVER
P.E.
#65698

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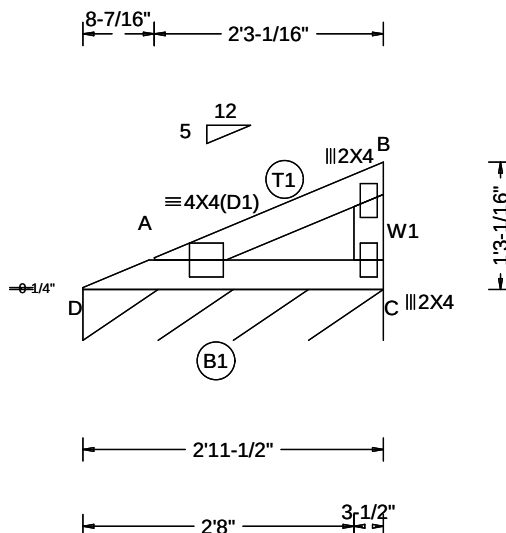
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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCEA: www.sbceaindustry.com; ICC: www.iccsafe.org


SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD Truss Label: PB3	Ply: 1 Qty: 2 Wgt: 9.8 lbs	SEQN: 29887 / T28 / VAL FROM:	DRW: ... / ... 02/17/2021
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs), or *=PLF
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 21.16 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 7th Ed. 2020 TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	PP Deflection in loc L/defl L/# VERT(LL): 0.004 C 999 360 VERT(TL): 0.011 C 999 240 HORZ(LL): 0.001 C - - HORZ(TL): 0.002 C - - Creep Factor: 2.0 Max TC CSI: 0.130 Max BC CSI: 0.117 Max Web CSI: 0.043 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21	Gravity Non-Gravity Loc R+ / R- / Rh / Rw / U / RL D* 103 /- /- /62 /12 /13 Wind reactions based on MWFRS D Brg Width = 35.5 Min Req = - Bearing D is a rigid surface. Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. A - B 27 -59 Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. A - C 134 -8

Maximum Web Forces Per Ply (lbs)		
Webs	Tens.	Comp.
B - C	171	-92

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC
@ 24" oc

Wind

Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes

See applicable standard valley or piggyback details for more requirements.

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ANCHORAGE AND RESTRAINT OF LATERAL BRACING

THIS IS A DANGEROUS CONDITION

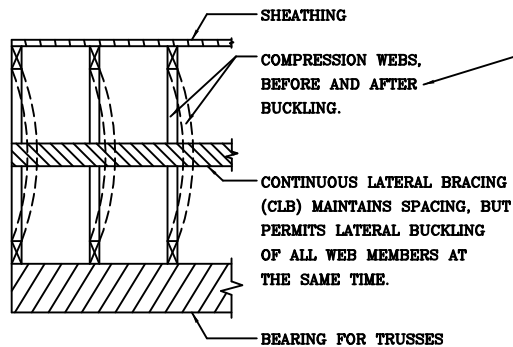


FIG. 1

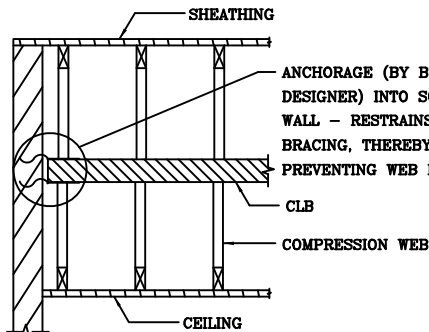
TO PREVENT THIS FAILURE, ANCHOR OR RESTRAIN THE LATERAL BRACING!

USE METHOD SHOWN IN FIG. 2, 3A & 3B, OR ANOTHER STRUCTURALLY SOUND METHOD SPECIFIED BY PROFESSIONAL ENGINEER OR ARCHITECT.

THE DRAWING BELOW (FIG. 3B) SHOWS HOW TO RESTRAIN THE CONTINUOUS LATERAL BRACING (CLB - ). WHEN ANCHORAGE IS NOT AVAILABLE AS SHOWN IN FIG. 2 THE DIAGONAL BRACE RESTRAINT (DBR - ) MEMBERS ARE 2X4'S, THE ENDS OF WHICH ARE ATTACHED TO TOP & BOTTOM CHORDS. THE DIAGONAL BRACE MAY BE ATTACHED DIRECTLY TO THE CLB OR TO THE WEB OPPOSITE THE CLB. USE THE SAME NAILING SHOWN IN FIG. 3A.

FIG. 2

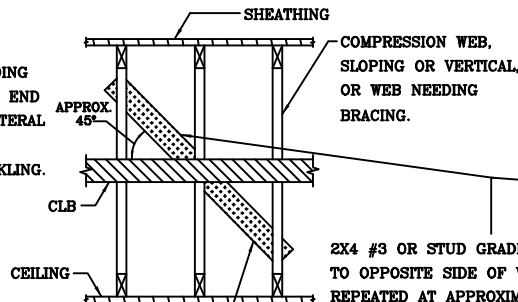
ANCHORAGE BY BUILDING DESIGNER
(OTHER ANCHORAGE PROVISIONS FOR OTHER TYPES OF WALLS).



DBR MAY TRAVERSE MORE THAN TWO TRUSSES, DEPENDING ON TRUSS HEIGHT.

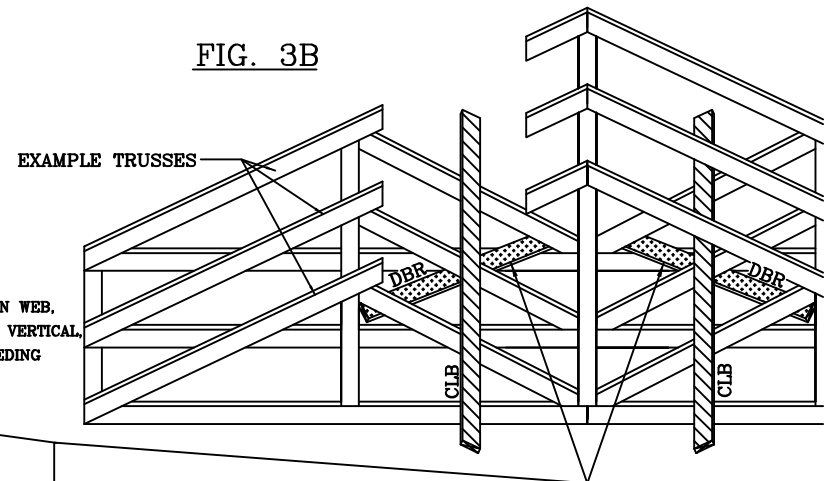
FIG. 3A

DIAGONAL BRACE RESTRAINT (DBR) WITHIN THE UNIT (3A & 3B)



2X4 #3 OR STUD GRADE DBR NAILED TO OPPOSITE SIDE OF WEB AND REPEATED AT APPROXIMATELY 20 FOOT INTERVALS TO RESIST LATERAL MOVEMENT. ATTACH TO WEBS WITH (2) 16d COMMON (0.162" X 3.5", MIN) NAILS.

FIG. 3B



Earth City, MO 63045

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!**
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****IMPORTANT** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the trusses in conformance with TPI or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/180A (W.H/S/K) ASTM A653 grade 37/40/60 (K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2
ITW - BCG: www.itwbog.com; TPI: www.tpinet.com; WTCA: www.aboindustry.com; ICC: www.iccsafe.org

REF BRACE RESTRAINT

DATE 1/1/09

DRWG BRCLBANC0109

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

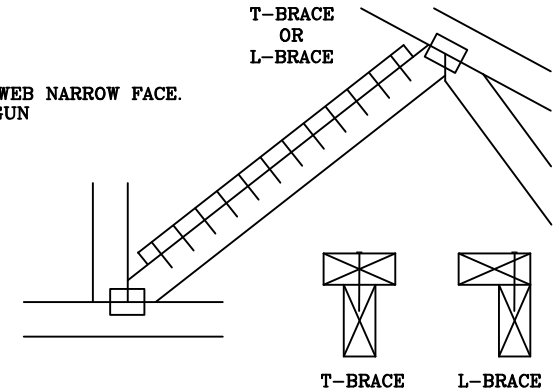
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING	
		T OR L-BRACE	SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

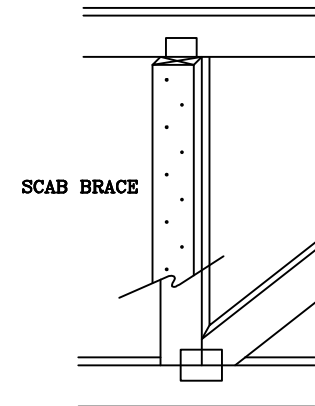
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3",MIN) NAILS.
AT 6" O.C.
BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3",MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



Earth City, MO 63045

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ITW-BCG: www.itwbog.com; TPI: www.tpinet.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	1/1/09
BC DL	PSF	DRWG	BRCCLBSUB0109
BC LL	PSF		
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

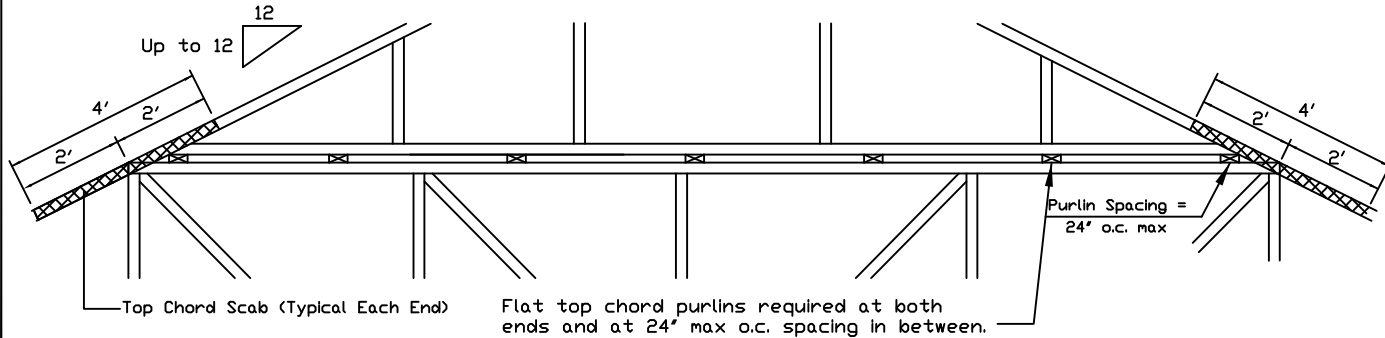
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24' o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

*** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less

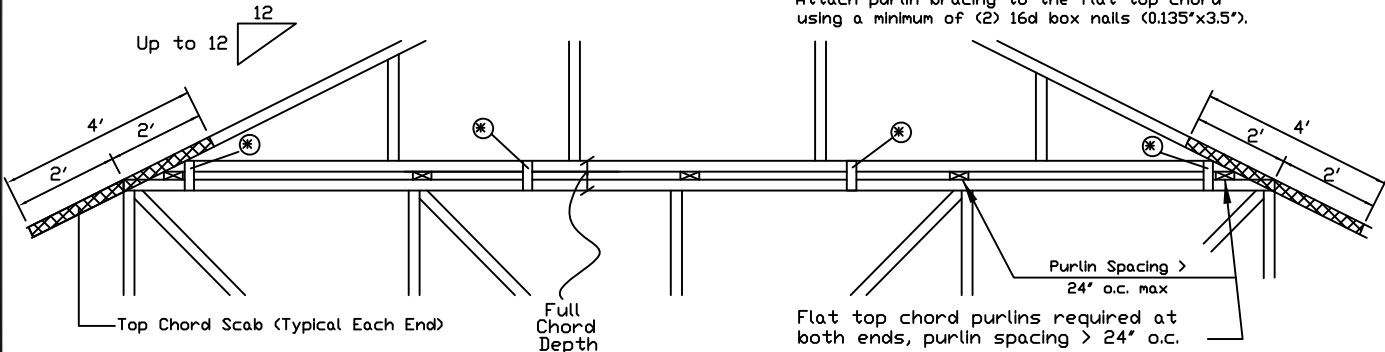


Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").

Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24' o.c. max. and use Detail A.

* In addition, provide connection with one of the following methods:

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate
Use 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.



Earth City, MO 63045

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REF PIGGYBACK

DATE 2/14/12

DRWG PB160100212

SPACING 24.0"

Scabbed Piggyback Detail

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Maximum truss spacing is 24" o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

- * 2x4, 2x6, 2x8, 2x10 or 2x12, #2 or #2 PT, SPF, Hem-Fir, or SP as needed. Attach scab to one face of truss with 16d (0.162"x3.5") common nails or 0.128"x3" gun nails @ 3" oc. throughout top chord.

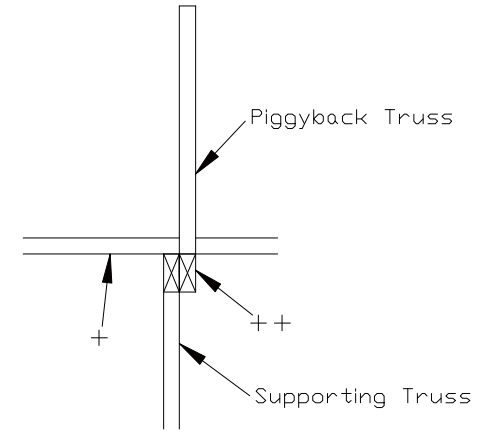
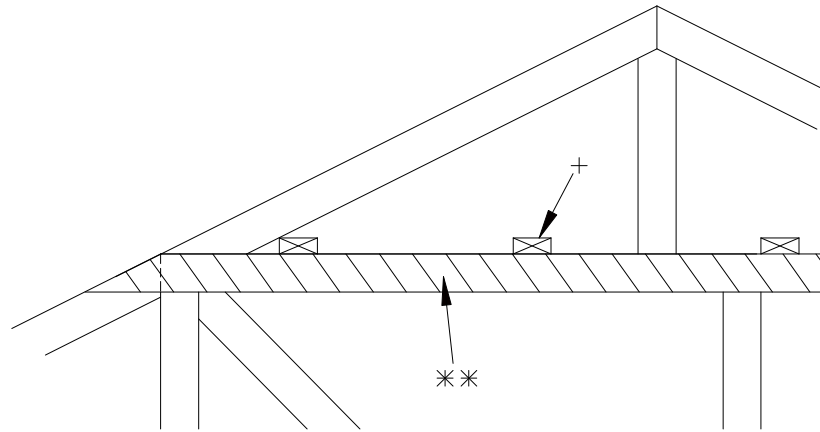
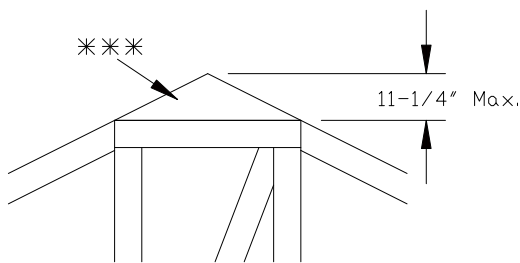
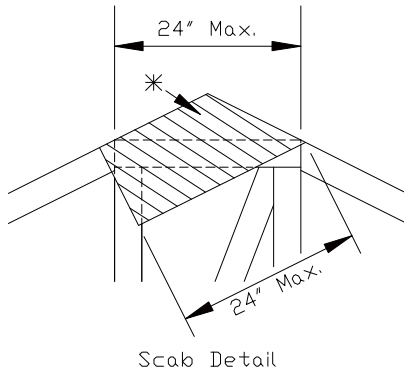
- ** Piggyback as per ITWBCG drawing. Attach to top chord of supporting truss using either the attachment specified on ITWBCG drawing or with gun nails (0.131"x3" gun nails) at:
 - 8" oc. for ASCE 7-10, 160 mph, Enc. Bldg, Exp B & C, 30' MH
 - 6" oc. for ASCE 7-10, 180 mph, Part. Enc. Bldg, Exp B, 30' MH
 - 6" oc. for ASCE 7-10, 180 mph, Enc. Bldg, Exp C, 30' MH
 - 4" oc. for ASCE 7-10, 180 mph, Part. Enc. Bldg, Exp C, 30' MH

- *** Toenail block to top chord with 0.128"x3" gun nails @ 4" oc from each face throughout top chord.

- ++ Detail valid only for full overlap of piggyback chord as shown.

- + Continuous Lateral Bracing (CLB) as specified on the supporting truss ITWBCG drawing or at 24" o.c. if not specified. Attach to each supporting truss with (2) 16d (0.162"x3.5") common nails. Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

- + CLB lumber: 2x4 or 2x6 #2 or #2 PT, SPF, Hem-Fir, or SP. CLB may be applied to top edge of supporting truss top chord (as shown) or bottom edge of supporting truss top chord.



Earth City, MO 63045

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 ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.org; ICC: www.iccsafe.org

REF PIGGYBACK SCAB

DATE 2/14/12

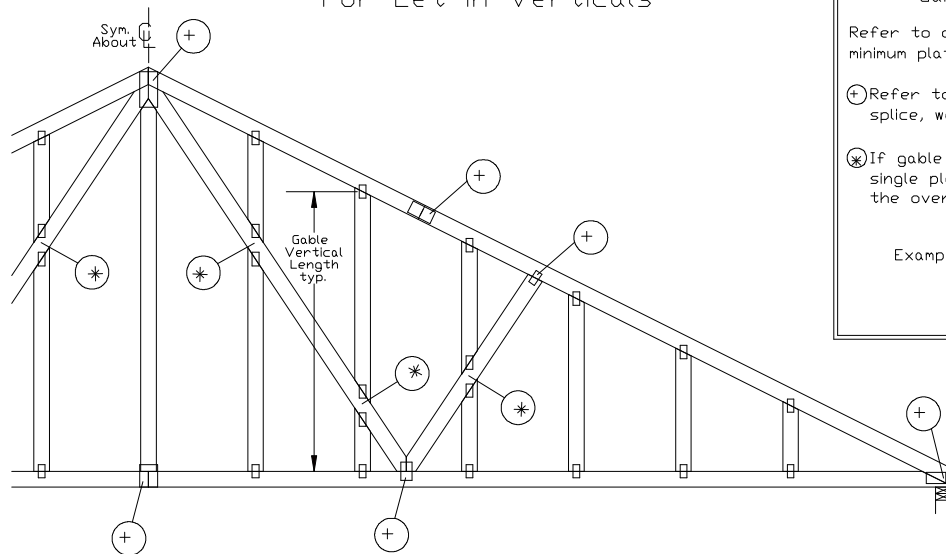
DRWG PBSCAB100212

MAX. TOT. LD. 55 PSF

DUR. FAC. 1.25

SPACING 24.0"

Gable Detail For Let-in Verticals



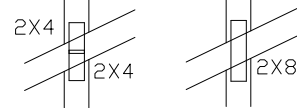
Gable Truss Plate Sizes

Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

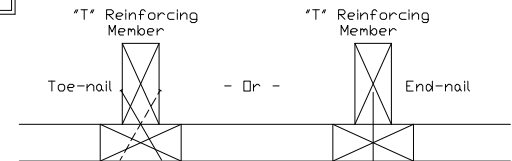
(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

(*) If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate ITW gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, Kzt = 1.00

Gable Vertical = 24' o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (From Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148"x 3", min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148"x 3", min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate ITW gable detail for ASCE wind load.

ASCE 7-98 Gable Detail Drawings

A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings

A13015020109, A12015020109, A11015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109

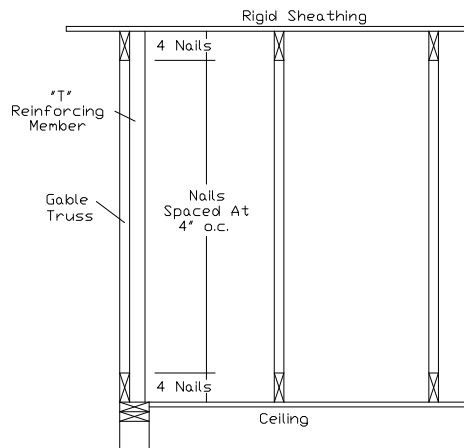
ASCE 7-05 Gable Detail Drawings

A13015050109, A12015050109, A11015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109

ASCE 7-10 Gable Detail Drawings

A11515ENC100212, A12015ENC100212, A14015ENC100212, A16015ENC100212,
A18015ENC100212, A20015ENC100212, A20015END100212, A20015PED100212,
A11530ENC100212, A12030ENC100212, A14030ENC100212, A16030ENC100212,
A18030ENC100212, A20030ENC100212, A20030END100212, A20030PED100212

See appropriate ITW gable detail for maximum unreinforced gable vertical length.



Earth City, MO 63045

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ITWBCCI: www.itwbcci.com; TPI: www.tpinet.org; WTCA: www.bcsiindustry.org; ICC: www.iccsafe.org

REF LET-IN VERT

DATE 2/16/12

DRWG GBLLETIN0212

MAX. TOT. LD. 60 PSF

DUR. FAC. ANY

MAX. SPACING 24.0"

Valley Detail - ASCE 7-10: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
 Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
 Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

Unless specified on engineer's sealed design, apply 1x4 "T" brace, 80% length of web, same species and SRB grade or better, attached with 8d box (0.113" x 2.5") nails at 6" o.c., or continuous lateral bracing, equally spaced, for vertical valley webs greater than 7'-9".

For verticals over 10'-0" tall, apply (2) 1x4 "T" braces, 80% length of web, same species and SRB grade or better, attached with 8d box (0.113" x 2.5") nails @ 6" o.c.

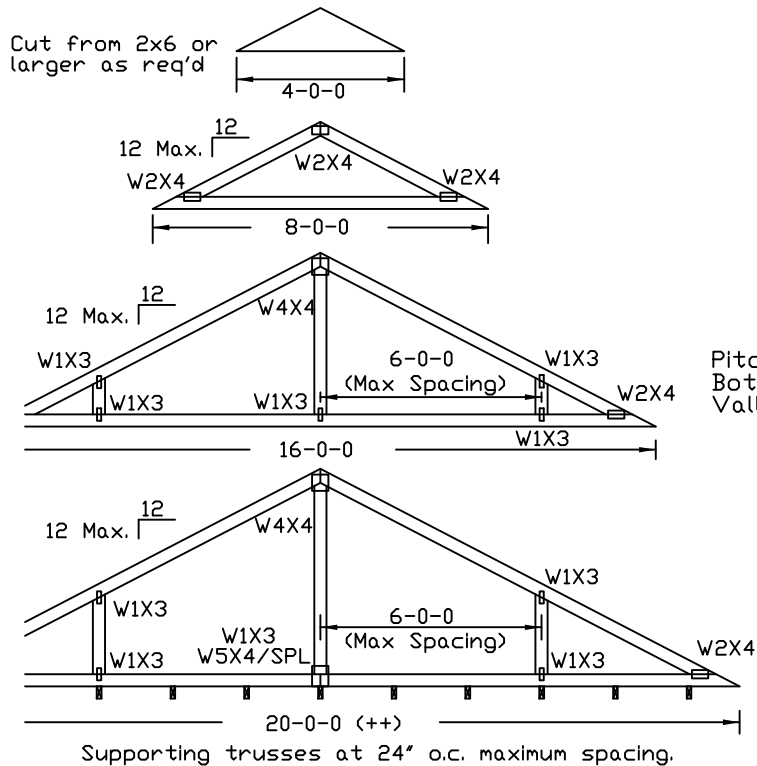
Top chord of truss beneath valley set must be braced with: properly attached, rated sheathing applied prior to valley truss installation.

Or
 Purlins at 24" o.c. or as otherwise specified on Engineer's sealed design.
 Or
 By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

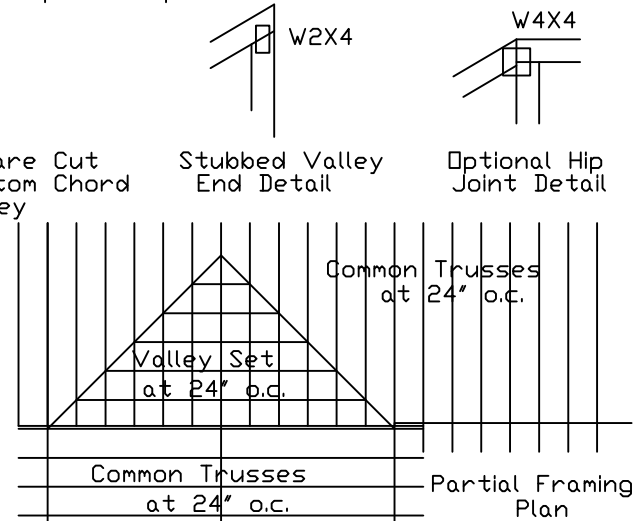
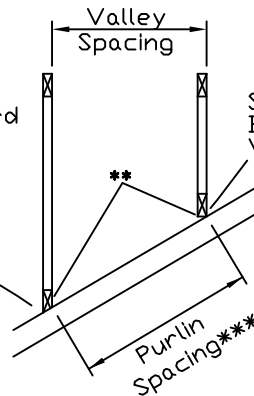
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

++ Larger spans may be built as long as the vertical height does not exceed 14'-0".

Bottom chord may be square or pitched cut as shown.



Pitched Cut Bottom Chord Valley



Earth City, MO 63045

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TC LL	30	30	40PSF	REF	VALLEY DETAIL
TC DL	20	15	7PSF	DATE	2/16/12
BC DL	10	10	10 PSF	DRWG	VAL180100212
BC LL	0	0	0 PSF		
TOT. LD.	60	55	57PSF		
DUR.FAC.	1.25/1.33	1.15	1.15		
SPACING			24.0"		

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-10: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 MPH Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
 Or: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
 Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length	2x4 Gable Vertical Spacing		Brace	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
	Species	Grade	Group A		Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	
	24" o.c.	SPF HF	#1 / #2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"
#3			3' 1"	5' 5"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"	
Stud			3' 1"	5' 4"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"	
SP DFL		Standard	3' 1"	4' 7"	4' 11"	6' 2"	6' 7"	7' 7"	7' 11"	9' 8"	10' 4"	11' 11"	12' 5"	
		#1	3' 4"	5' 6"	5' 9"	6' 6"	6' 9"	7' 9"	8' 1"	10' 3"	10' 8"	12' 2"	12' 8"	
		#2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"	
SP DFL		#3	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"	
		Stud	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"	
		Standard	3' 1"	4' 3"	4' 7"	5' 8"	6' 1"	7' 7"	7' 11"	8' 11"	9' 7"	11' 11"	12' 5"	
16" o.c.	SPF HF	#1 / #2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"	
		#3	3' 6"	6' 2"	6' 6"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
		Stud	3' 6"	6' 2"	6' 5"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
	SP DFL	Standard	3' 6"	5' 8"	6' 0"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"	
		#1	3' 10"	6' 4"	6' 7"	7' 6"	7' 9"	8' 11"	9' 3"	11' 9"	12' 2"	13' 11"	14' 0"	
		#2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"	
	SP DFL	#3	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"	
		Stud	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"	
		Standard	3' 6"	5' 3"	5' 7"	7' 0"	7' 6"	8' 8"	9' 1"	11' 0"	11' 9"	13' 7"	14' 0"	
12" o.c.	SPF HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	8' 9"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
		#3	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		Stud	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
	SP DFL	Standard	3' 10"	6' 6"	6' 11"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	
		#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"	
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"	
	SP DFL	#3	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Stud	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"	
		Standard	3' 10"	6' 1"	6' 5"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"	

Bracing Group Species and Grades:			
Group A:			
Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard
Douglas Fir-Larch		Southern Pine***	
#3		#3	
Stud		Stud	
Standard		Standard	
Group B:			
Hem-Fir			
#1 & Btr			
#1			
Douglas Fir-Larch			
#1			
#2			
Southern Pine***			
#1			
#2			

1x4 Braces shall be SRB (Stress-Rated Board).
 ***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

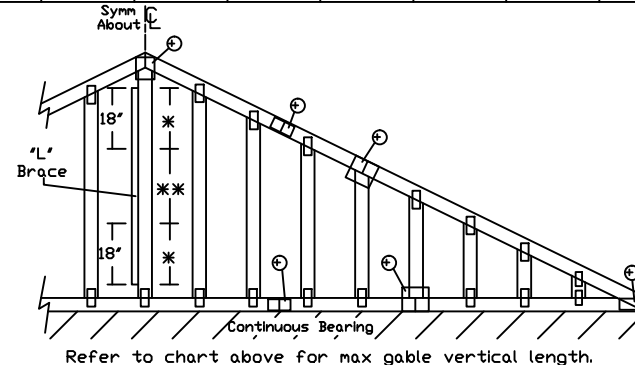
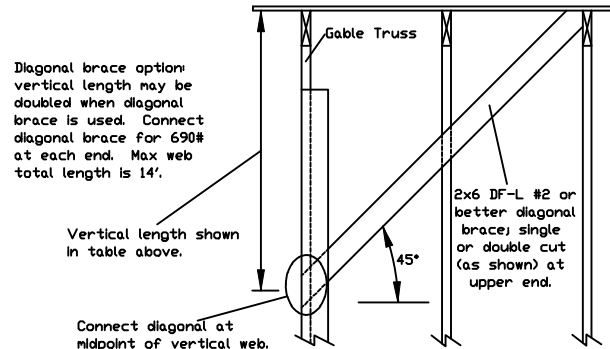
Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.
 Provide uplift connections for 135 plf over continuous bearing (5 psf TC Dead Load).
 Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12' plywood overhang.

Attach 'L' braces with 10d (0.128"x3.0" min) nails.
 * For (1) 'L' brace: space nails at 2' o.c. in 18" end zones and 4' o.c. between zones.
 ** For (2) 'L' braces: space nails at 3' o.c. in 18" end zones and 6' o.c. between zones.
 'L' bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 12' 0"	4X4

+ Refer to common truss design for peak, splice, and heel plates.
 Refer to the Building Designer for conditions not addressed by this detail.



Refer to chart above for max gable vertical length.

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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org



13723 Riverport Drive
 Suite 200
 Maryland Heights, MO 63043

REF ASCE7-10-GAB16030
 DATE 8/3/15
 DRWG S16030ENC100815

MAX. TOT. LD. 60 PSF

MAX. SPACING 24'0"