



**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. _____
 Project Address 101 Villa Perosa Place, NOKOMIS , FL, 34275
 Design Professional Structural Systems Phone 239-549-4554 Fax _____
 Contractor DR HORTON INC Phone 239-266-2600 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 _____ | | |
| <input checked="" type="checkbox"/> <u>FBC 2020 / Residential</u> | | | |
| <u>Volume Construction Type</u> | <u>IV V (circle one)</u> | <u>Other</u> | <u>VB</u> |
| Design Wind Speed <u>160</u> m.p.h. | R301.2 (4) | | |
| Importance Factor <u>1.0</u> | | | |
| Wind Debris Area <u>Yes</u> No | Exposure <u>B or C (circle one)</u> | | |
| Structural Forces Section R301.4 / R301.5 / R301.6 | | | |
| 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. | | |
| WINDOW & DOOR WIND PRESSURE DESIGN LOADING | | | |
| 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 | | | |
| Please Show Design Pressure for Worst Case ONLY | | | |
| 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 | 2,221 sf / Conditioned Space |
| | | Garage | 652 sf |
| | | Lanai | 230 sf |
| | | Entry | 35 sf |
| | | Storage | sf |
| | | Other | sf |
| | | <u>3,138</u> | |

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.

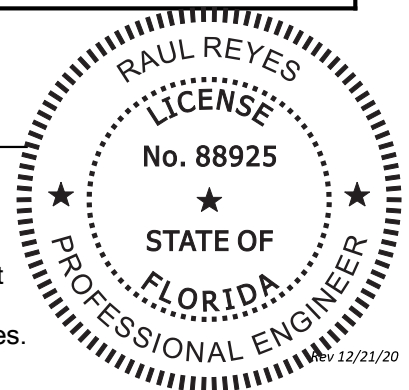
Signature _____
 Architect / Engineer

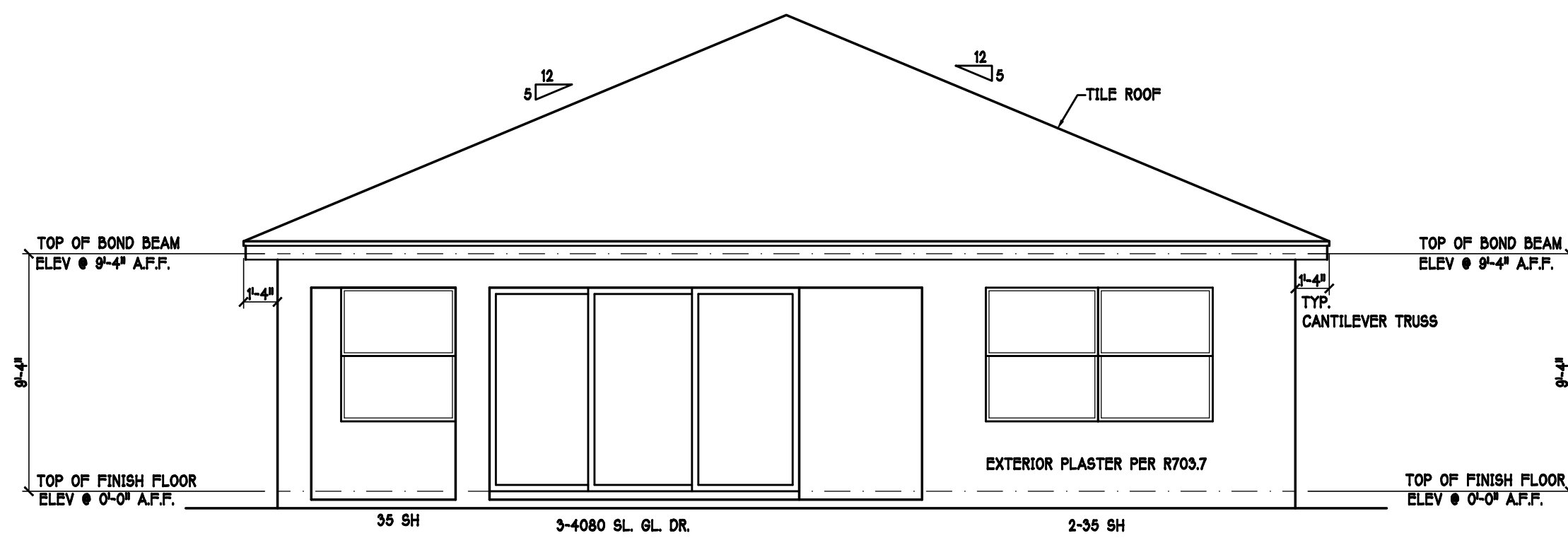
Date _____

Seal

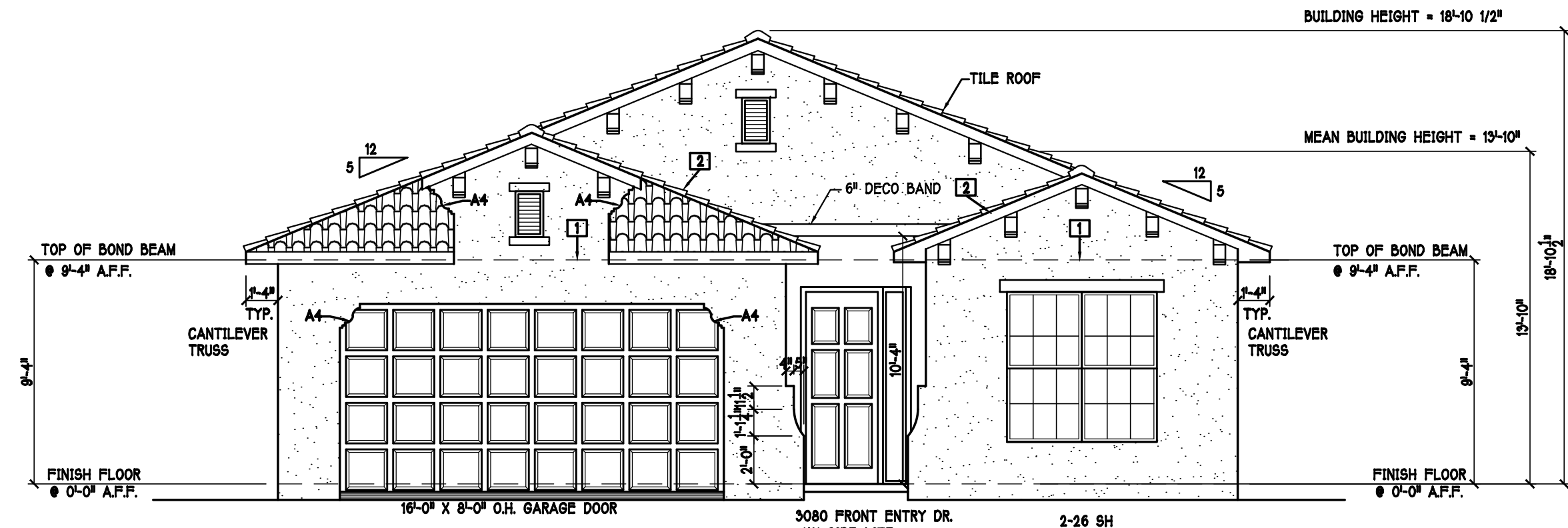
Residential Data Summary Worksheet

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

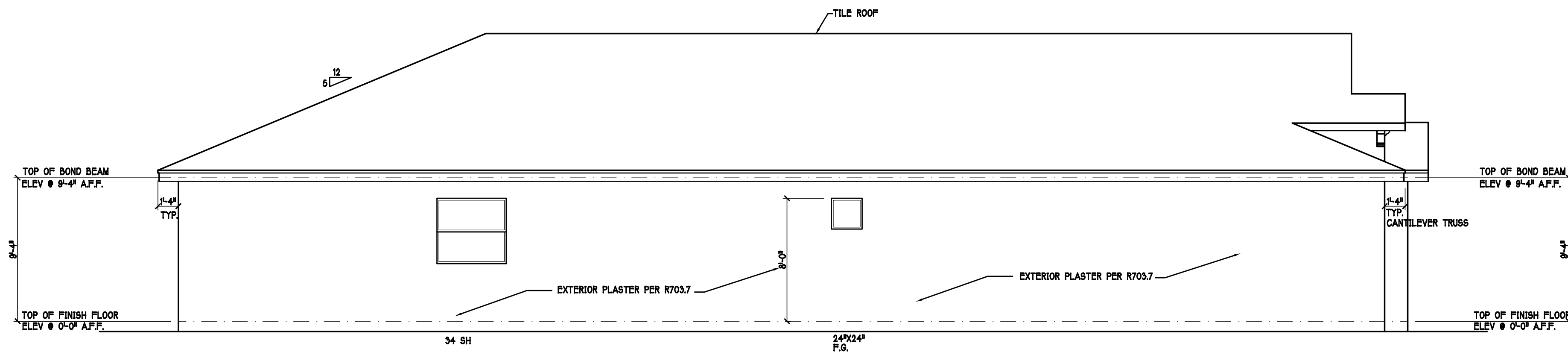




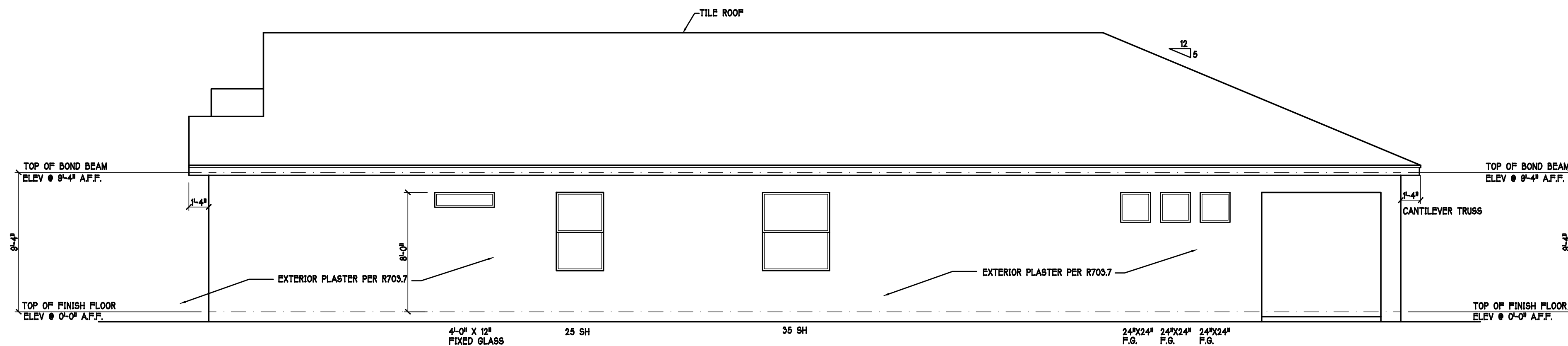
REAR ELEVATION: 1/16" = 1'-0"



FRONT ELEVATION: 1/16" = 1'-0"

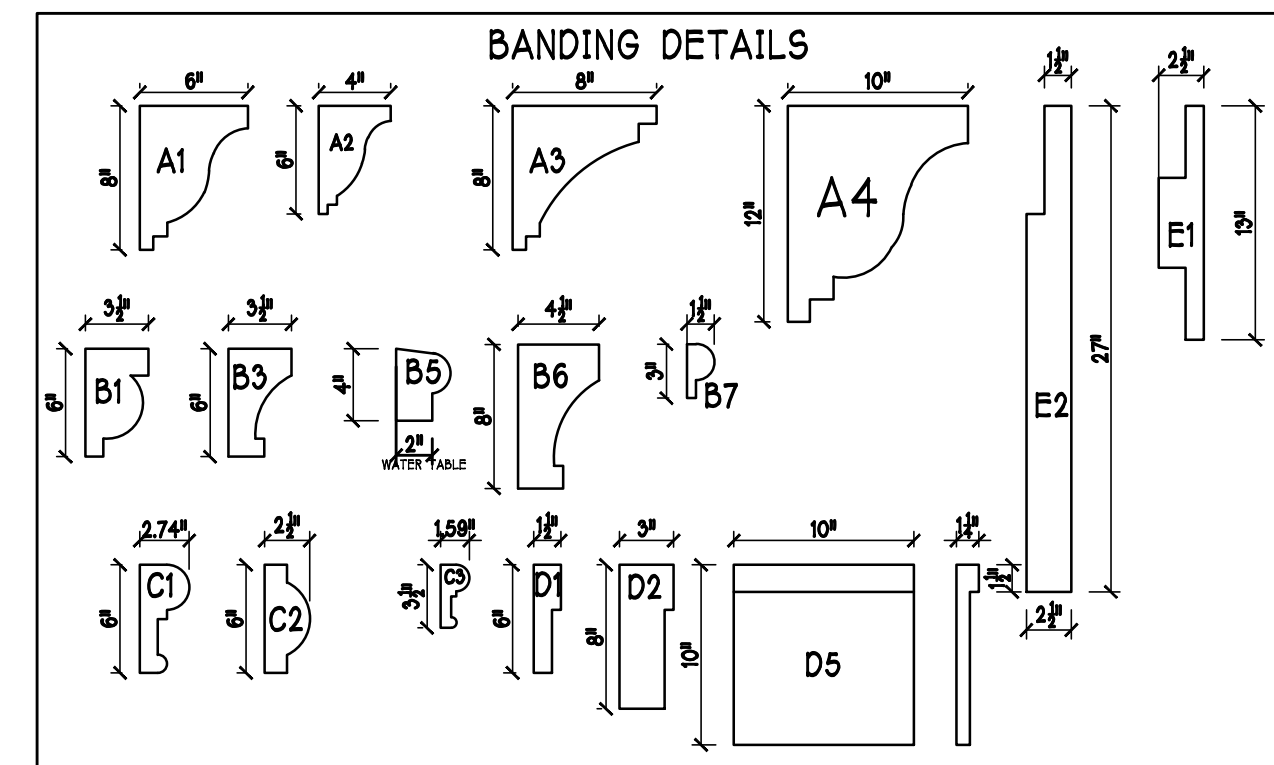


LEFT SIDE ELEVATION: 1/16" = 1'-0"



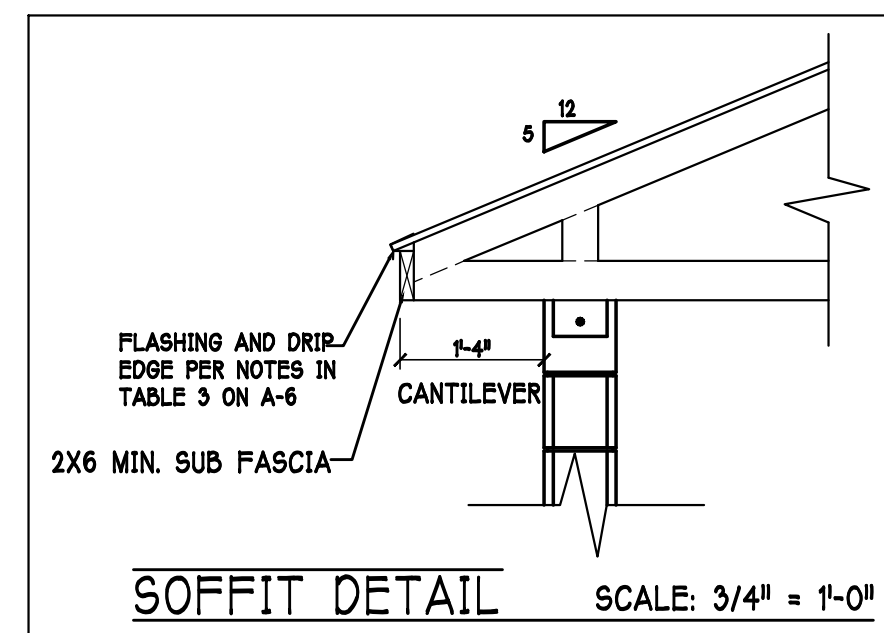
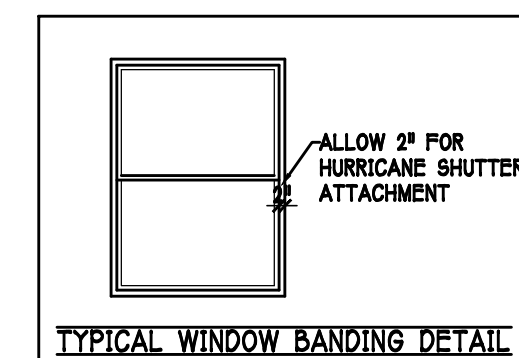
RIGHT SIDE ELEVATION: 1/16" = 1'-0"

- 1 MID-WALL WEEP SCREED AT WOOD-MASONRY INTERFACE. INSTALL STRICTLY PER MFG. INSTRUCTIONS
- 2 ROOF / WALL WEEP SCREED INSTALL STRICTLY PER MFG. INSTRUCTIONS

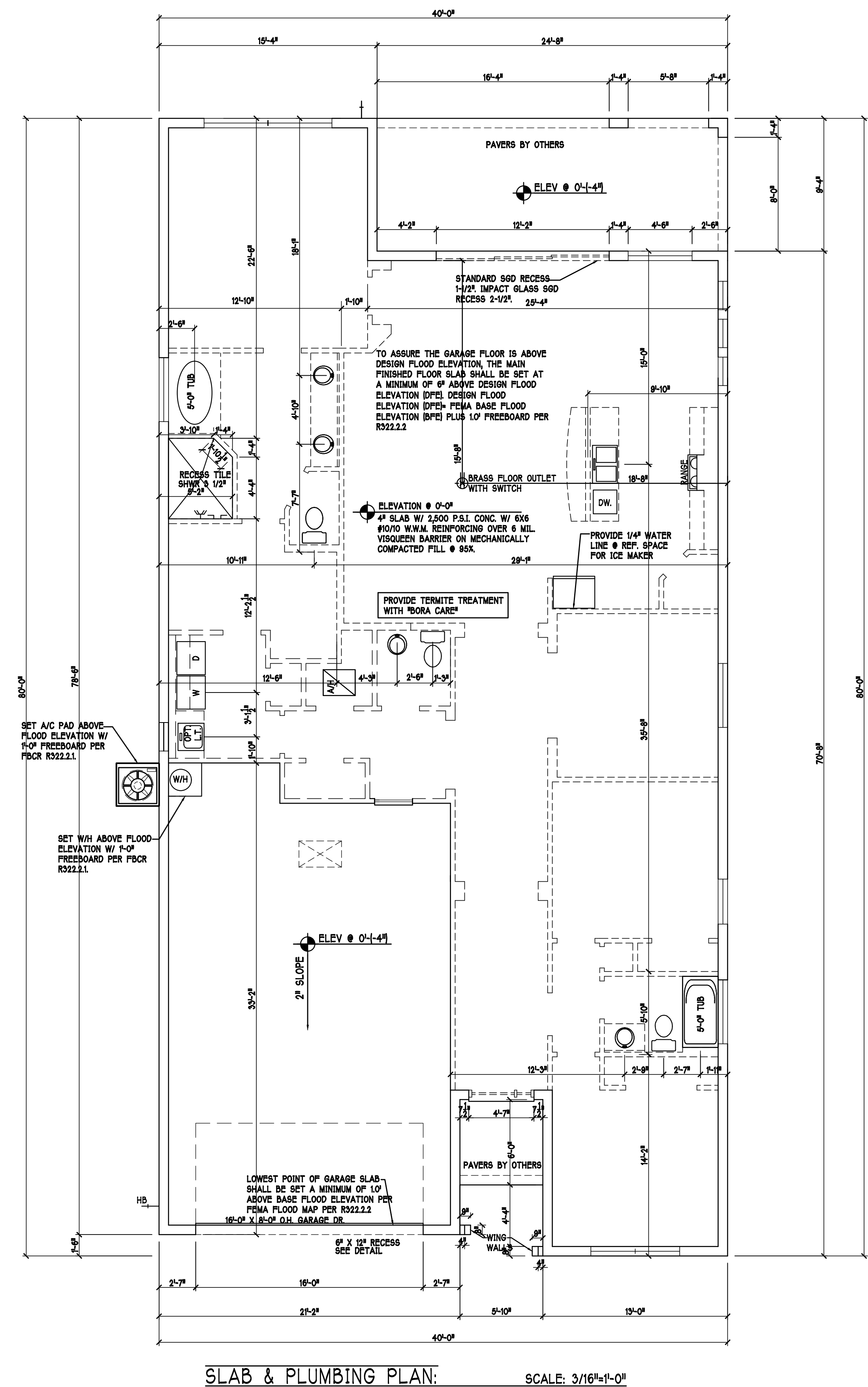
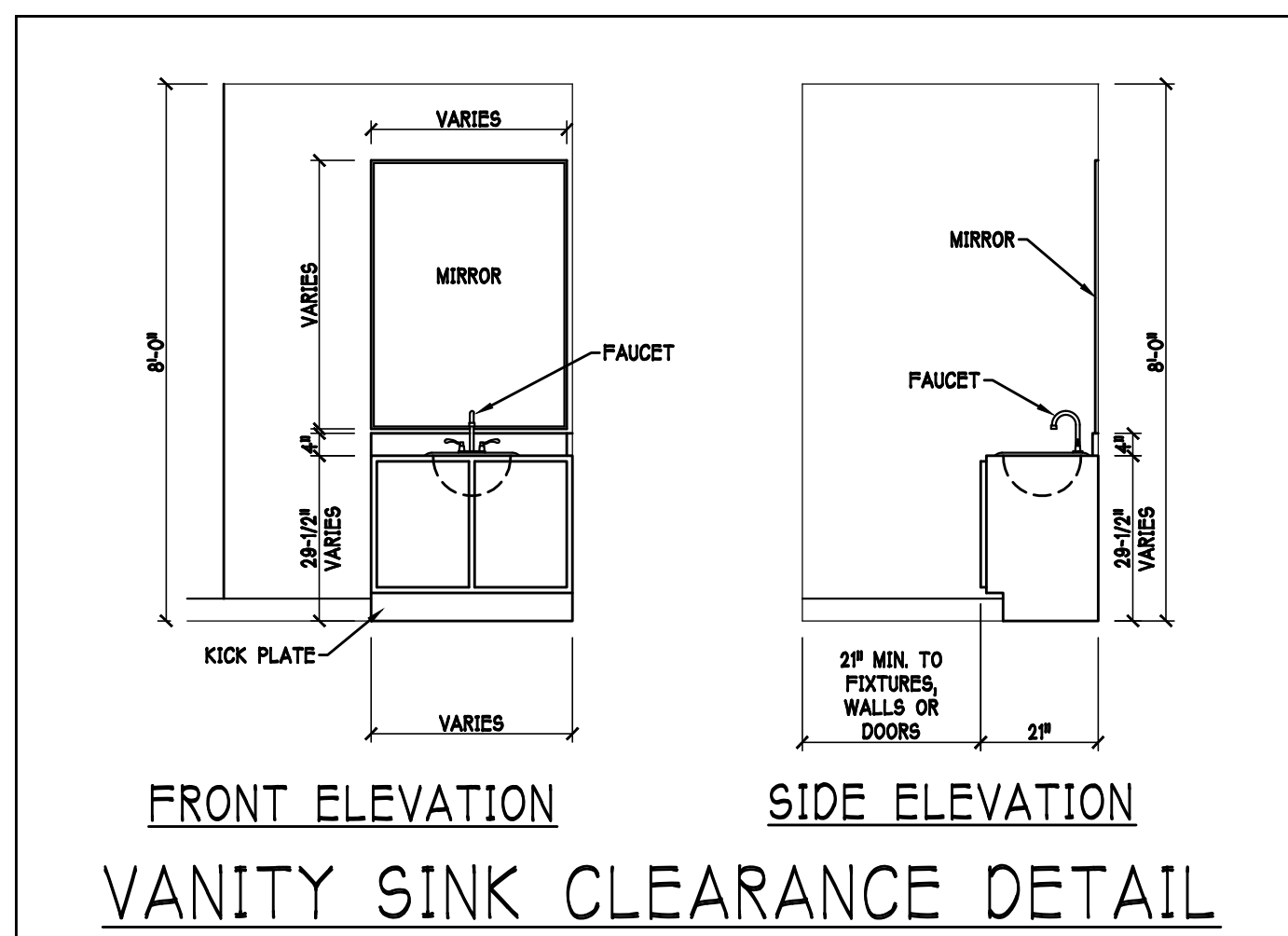


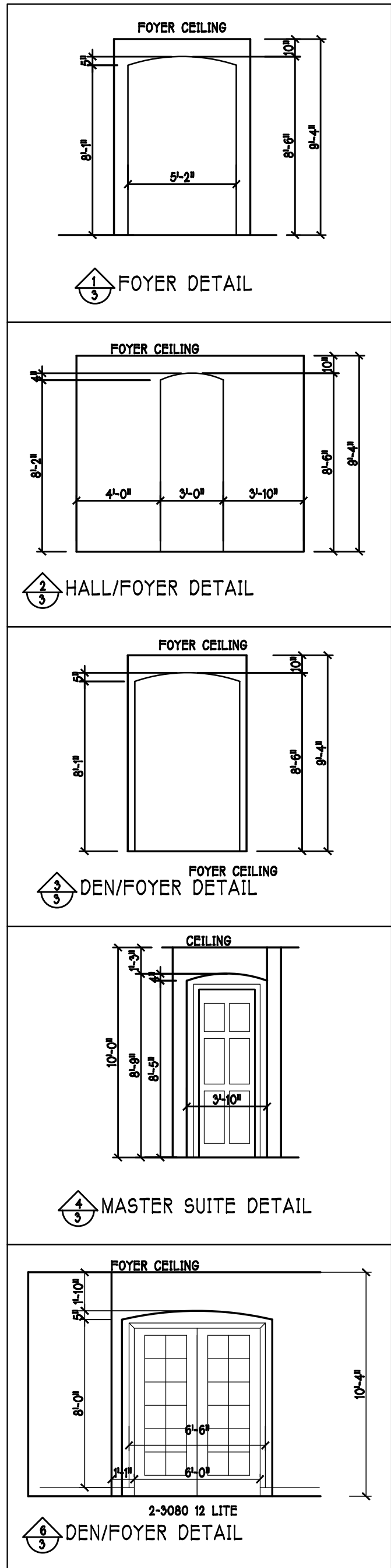
FLORIDA BUILDING CODE 7TH EDITION

OCCUPANCY: FBC 310.5 RESIDENTIAL GROUP R-3 CONSTRUCTION TYPE: V-B (FIRE RESISTANCE RATING 0 HOURS, NOT SPRINKLED) 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 W/ THE 2020 RESIDENTIAL FLORIDA BUILDING CODE- 7TH EDITION

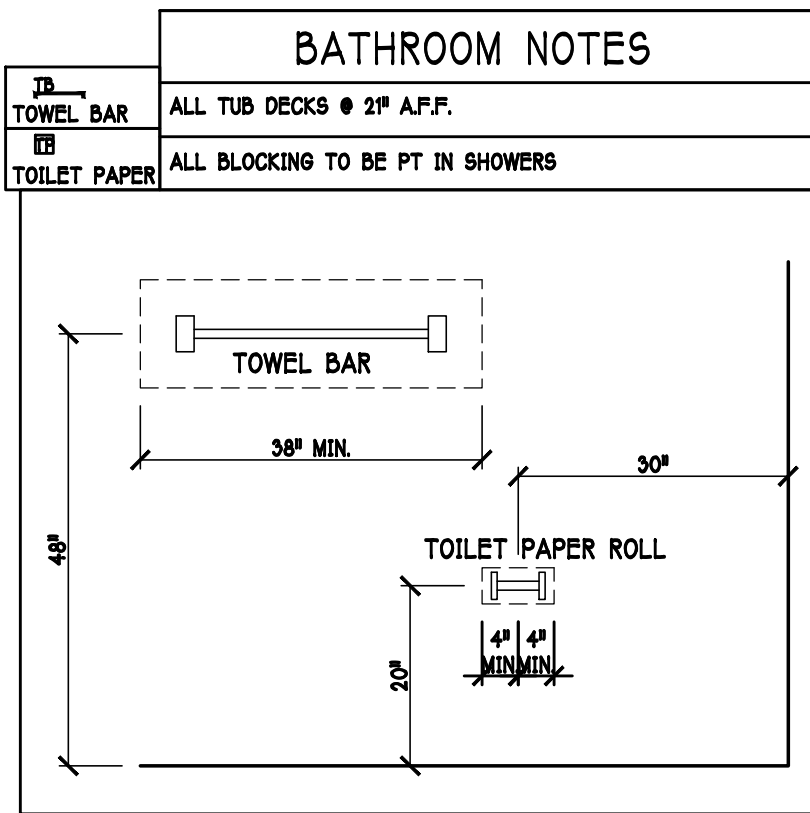




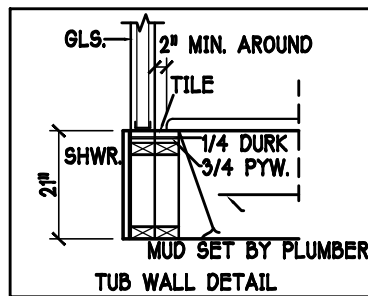
| D R HORTON | | | | | |
|------------|----------------|---------------------|-------|--------|----------|
| MARK | SIZE CODE | PRODUCT DESCRIPTION | WIDTH | HEIGHT | COMMENTS |
| 1 | OVERHEAD | GARAGE DOOR | 182 | 96 | |
| 2 | 3080 ENTRY DR. | DISTINCTION | 36 | 96 | |
| | | | | | 2 |

| D R HORTON | | | | | |
|------------|---------------------|---------------------|-------|--------|-----------------|
| MARK | SIZE CODE | PRODUCT DESCRIPTION | WIDTH | HEIGHT | COMMENTS |
| A | 35 | SH | 54 | 63 | IMPACT |
| B | 25 | SH | 38 | 63 | IMPACT |
| C | 48" X 12" F.G. | FIXED GLASS | 48 | 12 | IMPACT TEMPERED |
| D | 34 | SH | 54 | 51 | IMPACT |
| E | 2-35 | SH | 108 | 63 | IMPACT |
| F | 3-4080 SL. GL. DR. | SL. GL. DOOR | 144 | 96 | IMPACT |
| G | 12" X 96" SIDE LITE | | 12 | 96 | IMPACT |
| H | 2'-0" X 2'-0" | FIXED GLASS | 24 | 24 | IMPACT |
| I | 2-26 | SH | 76 | 78 | IMPACT |
| SEE NOTE 1 | | | | | 13 |

OPT IMPACT GLASS MAY BE INSTALLED IN LIEU OF SHUTTERS VERIFY W/ CONTRACT

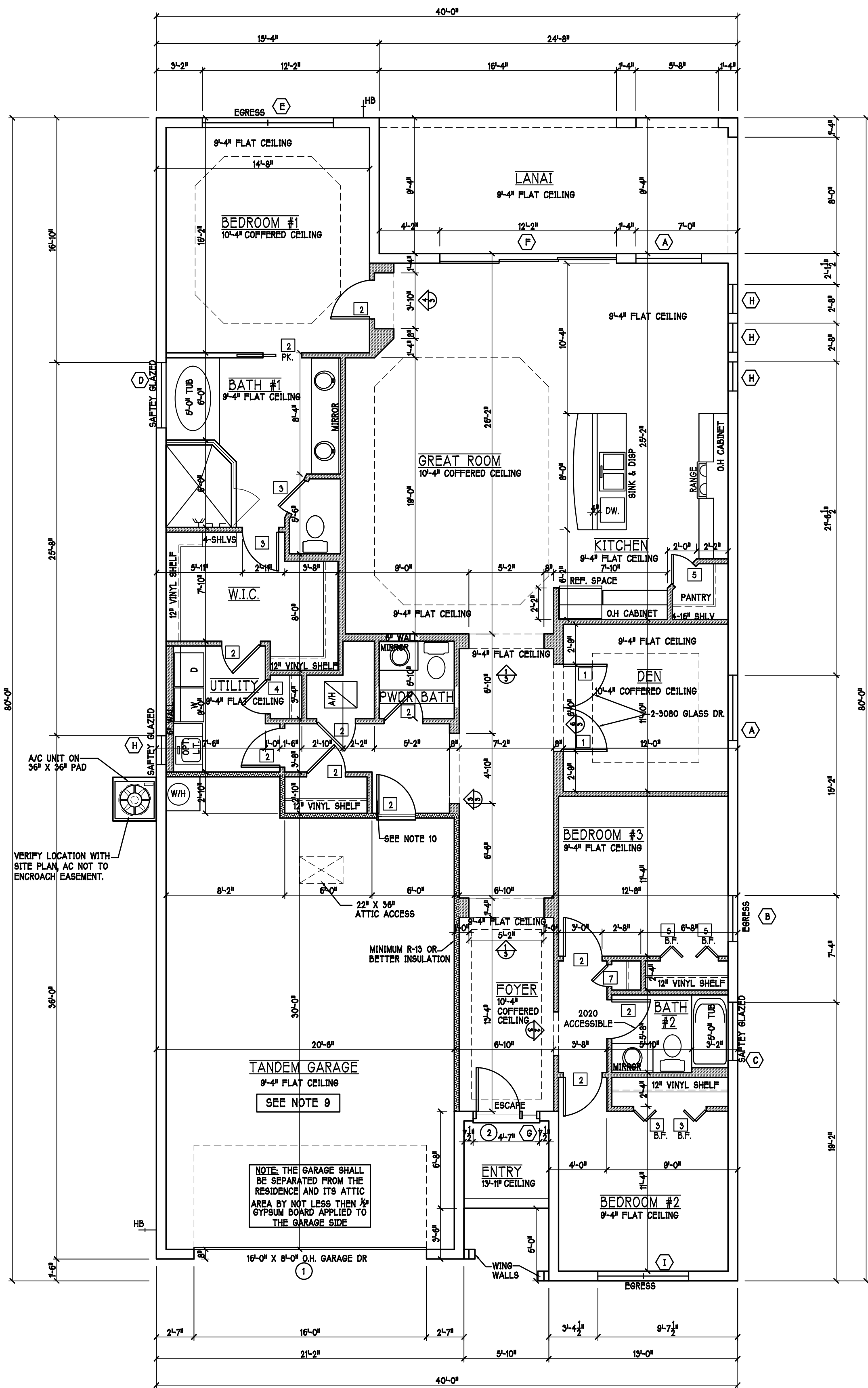


| INTERIOR DOOR SCHEDULE | | |
|------------------------|------------|----------------------|
| MARK | DOOR WIDTH | NOTES |
| 1 | 3'-0" | PK. = POCKET DOOR |
| 2 | 2'-8" | B.F. = BI-FOLD DOOR |
| 3 | 2'-6" | B.P. = BI-PASS DOOR |
| 4 | 2'-4" | L.V. = LOUVERED DOOR |
| 5 | 2'-0" | |
| 6 | 1'-8" | |
|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



| DOOR HEADERS | | |
|--|-----------------|-----------------|
| 6'-8" BIFOLD | 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 | | |
| 1) VERIFY ALL ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS | | |
| 2) PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT PER FLORIDA BUILDING CODE R 308.4.2. | | |
| 3) PROVIDE SAFETY GLAZING AT BATH / SHOWER PER FLORIDA BUILDING CODE R 308.4.5. | | |
| 4) NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING SHALL NOT EXCEED 24" O.C. (NON BEARING WALLS ONLY) | | |
| 5) PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE | | |
| 6) KITCHEN KNEE WALL TO BE FRAMED W/ TOP @ 41 1/2" A.F.F. W/ RAISED BAR TOP | | |
| 7) INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS | | |
| 8) WHERE DRYWALL CEILING IS APPLIED TO TRUSSES AT 24" O.C. USE 5/8" DRYWALL OR 1/2" 5A9 RESISTANT PER SEC. R702.3.5 | | |
| 9) THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE & ATTIC BY NOT LESS THAN 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" GYPSUM BOARD OR EQUIVALENT | | |
| 10) INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.5.1. | | |
| 11) ALL WINDOWS INSTALL 72" ABOVE GRADE MUST COMPLY WITH R 302.2.1 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PREVENTION DEVICE | | |
| 12) STUB OUT FOR GAS @ OUTDOOR KITCHEN, RANGE, WATER HEATER, AND DRYER. VERIFY WITH CONTRACTOR AND SUBDIV. SPECS. A SEPARATE PERMIT IS REQUIRED FOR GAS PIPING. | | |
| 13) ALL CLOSET SHELVES TO BE 12". ALL PANTRY & LINEN TO BE (4)-16" SHELVES 18" O.F.F. WITH 15" INCREMENT. | | |
| 14) ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE INSTALLED AT OR ABOVE FLOOD PLUS 4'-0" FREEBOARD. | | |
| CABINET BACKING | | |
| KITCHEN | UPPER TOP @ 84" | BASE TOP @ 35" |
| MASTER BATH | UPPER | BASE- TOP @ 35" |
| GUEST BATH | UPPER | BASE- TOP @ 33" |
| LAUNDRY RM. | UPPER TOP @ 84" | BASE |

| SQUARE FOOTAGE | |
|----------------|------|
| LIVING AREA | 2221 |
| GARAGE AREA | 653 |
| LANAI AREA | 230 |
| ENTRY AREA | 35 |
| TOTAL AREA | 3138 |



1st FLOOR PLAN: SCALE: 3/16" = 1'-0"

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

D.R.HORTON
America's Builder

Gulf Coast Drafting & Design
Phone (239) 540-1822
Fax (239) 540-7759

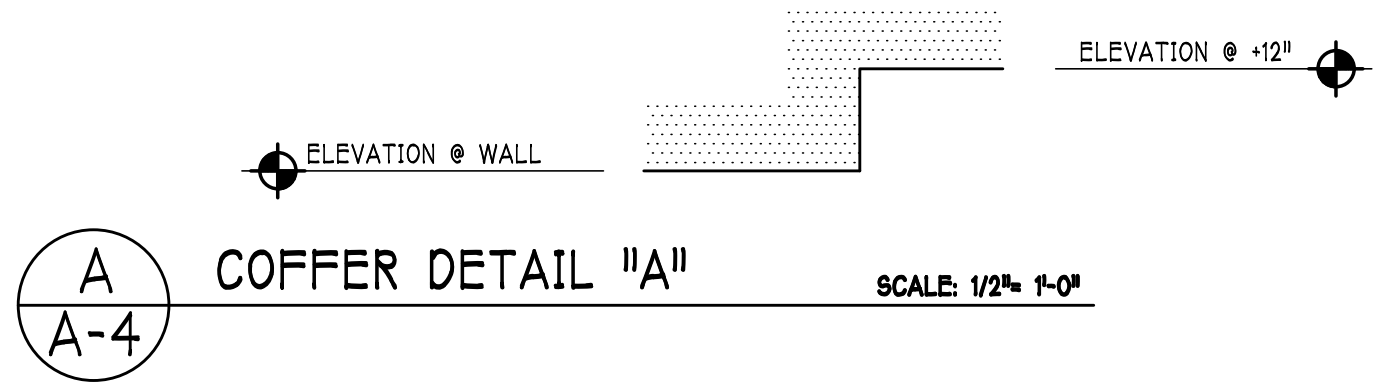
MODEL: UNIT 2221
SUBDIV: TOSCANA III & IV 50s
ADDRESS: 101 VILLA PEROSA PLACE
G.C.D.#: 13517 D.R.H.#: 579580126

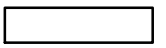

RESIDENCE FOR: SPEC

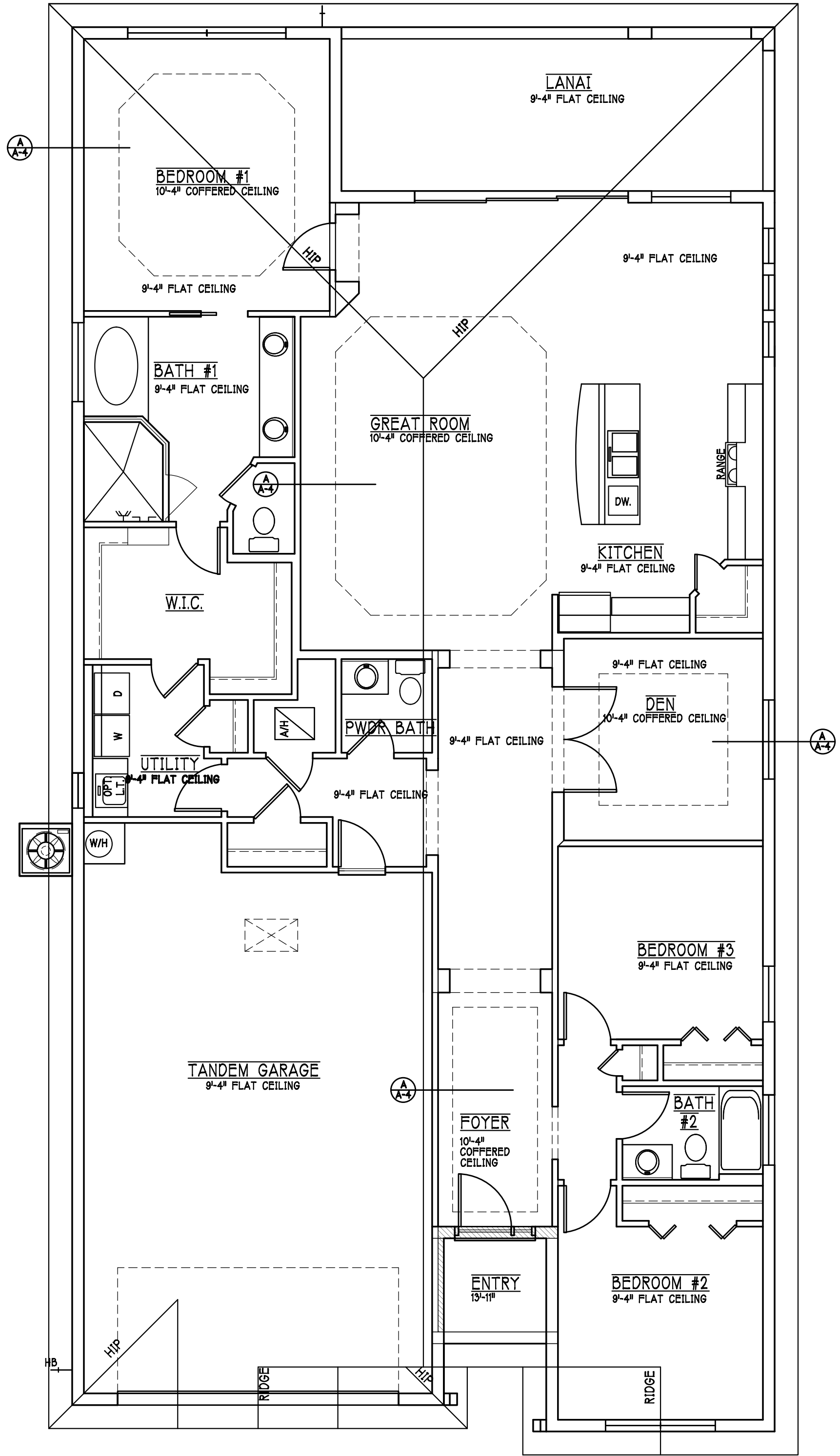
DATE: 10-6-21
DRAWN BY: CWL
CHECKED BY: JWC
REVISED:
PLAN: FLOOR
SCALE: 3/16"=1'-0"
SHEET#

A-3L

| MODEL 2221 L: 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 VENTILATION REQUIRED | | |
| MARK | ATTIC | SOFFIT | ATTIC AREA/150 | REQ'D AIR FLOW OF SOFFIT | QUAD 4 SOFFIT HAS | ATTIC AREA/300 | QUANTITY OF ROOF VENTS | MIN AIR FLOW OF SOFFIT |
| 1st STORY | 3443.4 SQ. FT. | 304.3 SQ. FT. | 22.96 SQ. FT. | 7.55% | 8.15% | ~ SQ. FT. | - | ~-% |
| | | | *SOFFIT ONLY* QUALIFIES | | | ROOF VENTS ARE NOT REQUIRED | | |
| | | | SOFFIT MODEL ACM QUAD 4, FULL VENT, NARROW PATTERN, 8.15% FREE AIR FLOW | | | ROOF VENT MODEL 22" BASE 22" WIDE PASS LOMANCO 770-D 0.97 SQ. FT. FREE AIR | | |




| BEARING HEIGHTS | |
|---|--------------------------|
|  | = BEARING @ 9'-4" A.F.F. |
|  | = BEARING @ 13'-11" |



CEILING PLAN: "L" SCALE: 3/16" = 1'-0"

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



D.R. HORTON
America's Builder

Gulf Coast Drafting
& Design
Phone (239) 540-1822
Fax (239) 540-7759

| | | | |
|------------------------------|--------|---------------------------------|------------------------|
| LOT: 714 | BLOCK: | MODEL: UNIT 2221 | RESIDENCE FOR: SPEC |
| SUBDIV: TOSCANA III & IV 50s | | ADDRESS: 101 VILLA PEROSA PLACE | |
| G.C.D.#: 13517 | | D.R.H.#: 579580126 | |

DATE: 10-6-21

DRAWN BY: CWL

CHECKED BY: JWC

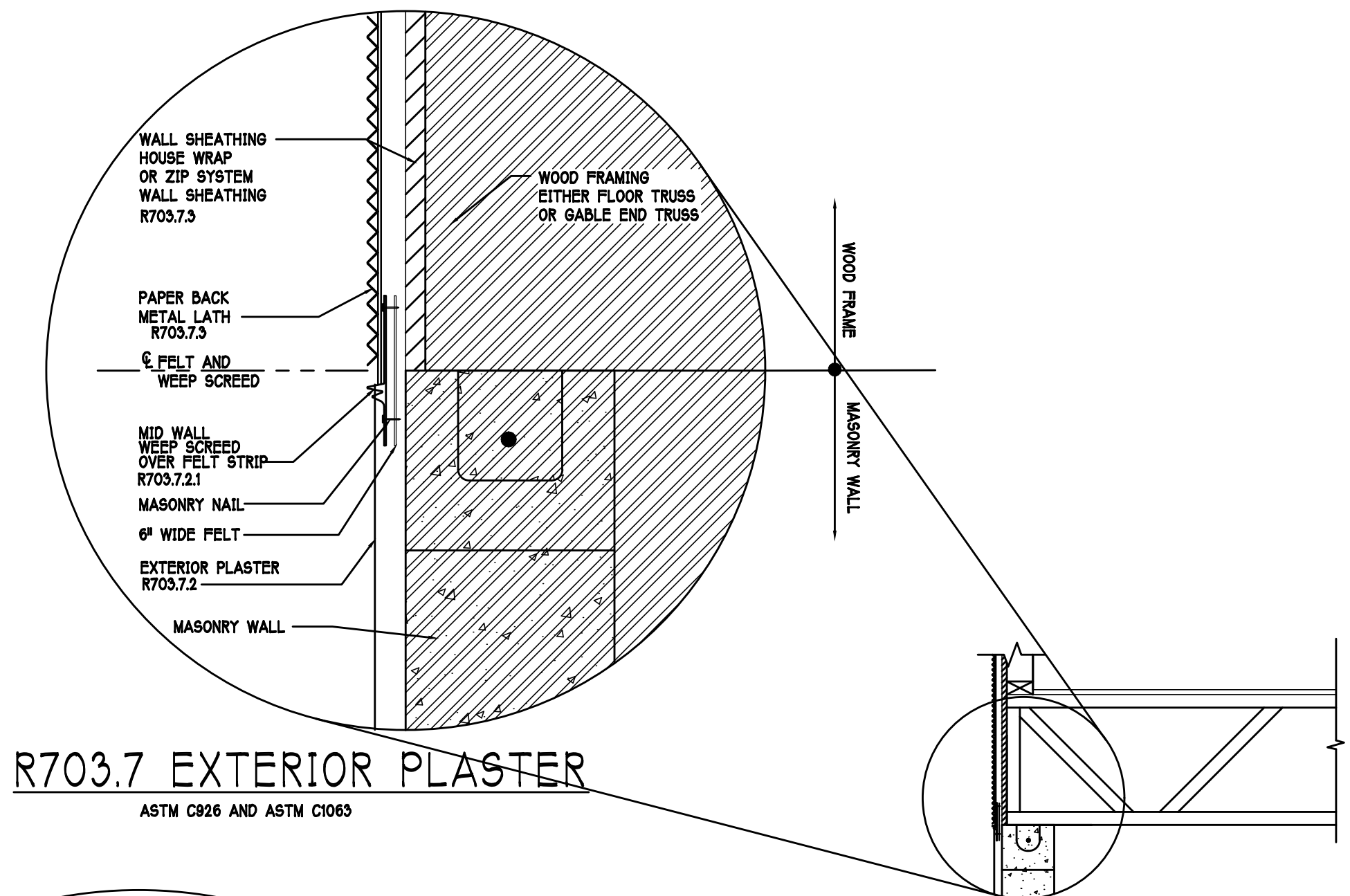
REVISED:

PLAN: ROOF & CEILING

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

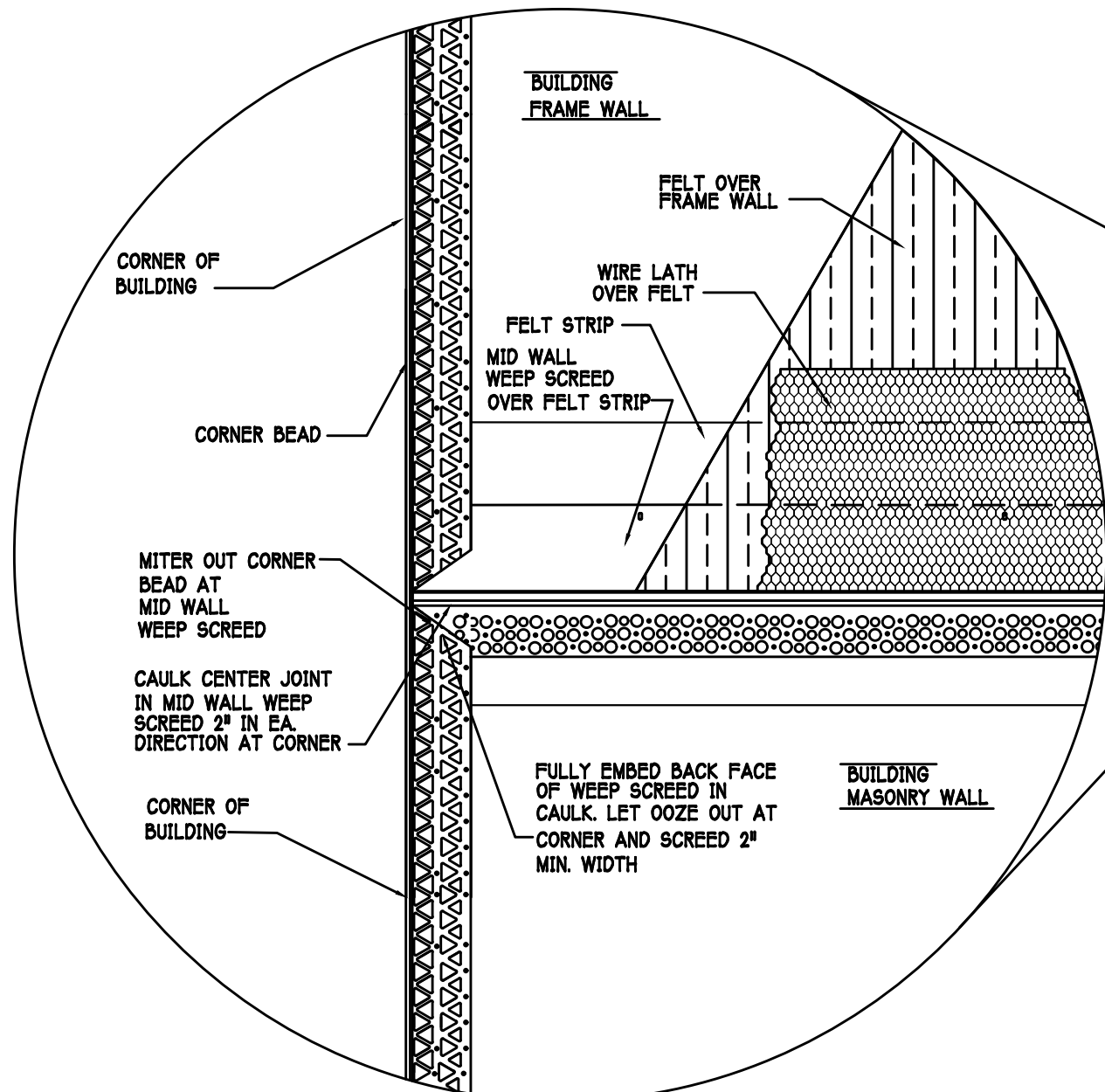
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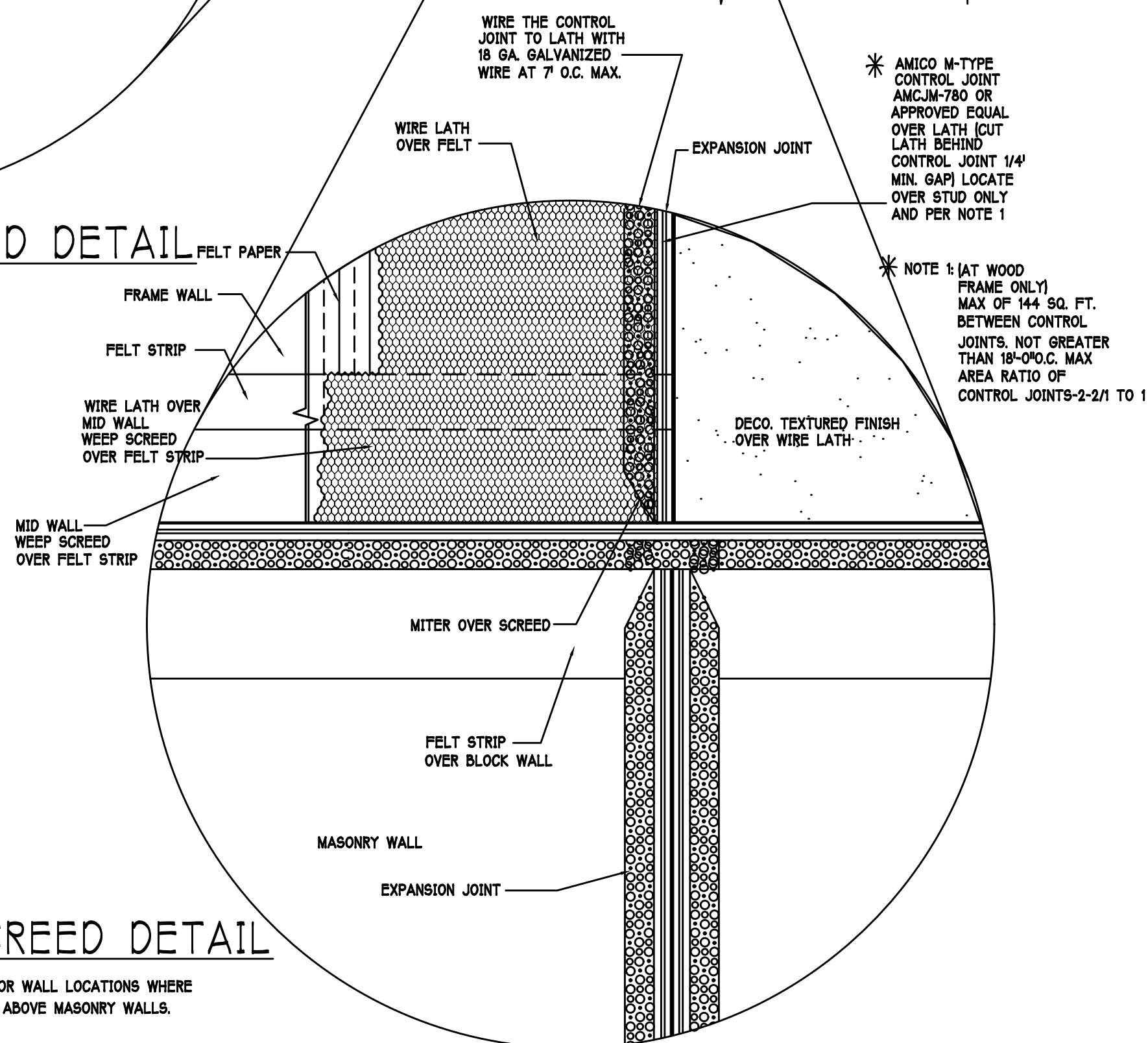


R703.7 EXTERIOR PLASTER

ASTM C926 AND ASTM C1063



MID WALL WEEP SCREED DETAIL



WEEP SCREED DETAIL

INSTALL AT ALL EXTERIOR WALL LOCATIONS WHERE WOOD STUD FRAMING IS ABOVE MASONRY WALLS.

RESIDENTIAL SPECIFICATIONS

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. SUBSURFACE SOIL CONDITION INFORMATION IS NOT AVAILABLE. FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.
5. 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.
6. 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.
7. TREATED WOOD REQUIREMENTS:- ALL 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.
8. 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.
9. CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24\"/>

GENERAL ROOF ASSEMBLY

ROOF SHEATHING PER 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\"/>

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 D5462, and shall be secured to the roof with no less than 6 fasteners per shingle strip, or a minimum of 2 fasteners per shingle tab. And shall in no case be fastened with less fasteners than that required by the manufacturer. Installation shall comply with the manufacturer's requirements for installation in the given Florida wind zone, as determined by ASTM D 568.

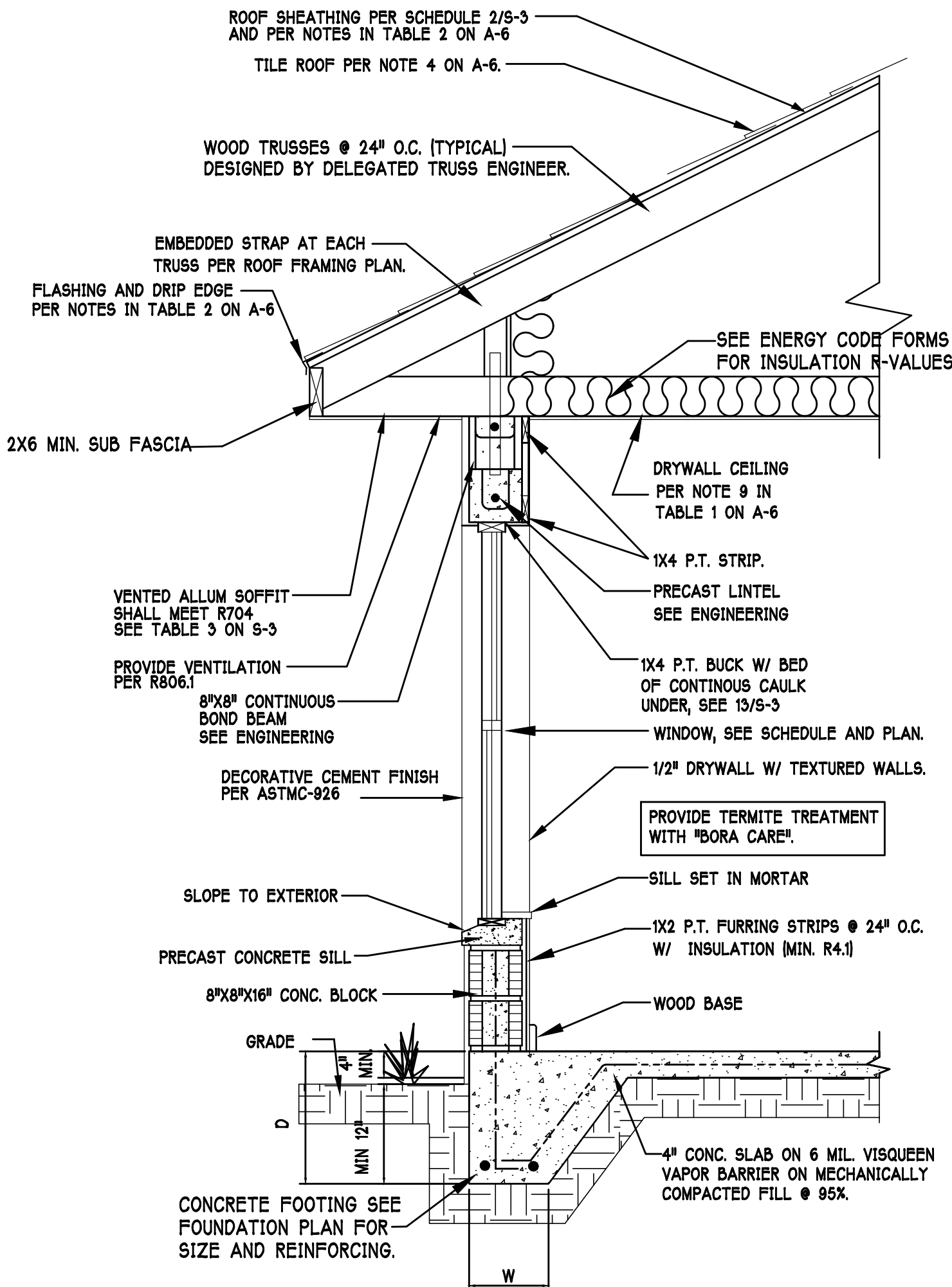
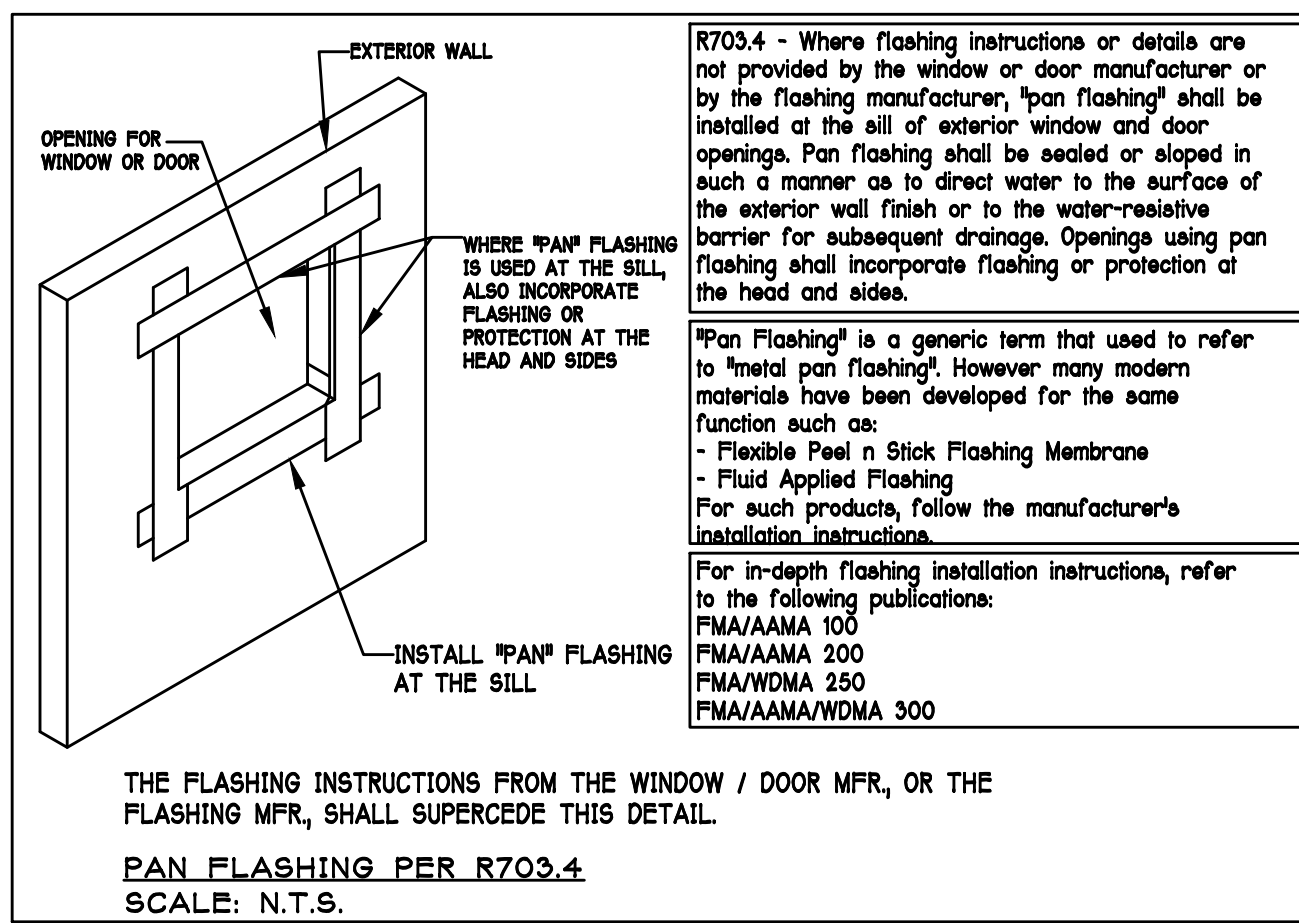
FASTENERS Fasteners for asphalt shingles shall comply with ASTM F 1667, and shall be made of galvanized steel, stainless steel or aluminum with a minimum shank size of 12 gauge (0.08 inches) with a minimum 3/8 inch diameter head and shall be of a length to penetrate the sheathing.

The nail component of plastic cap nails shall meet or exceed the requirements of ASTM A 641, Grade 1, or equal, and shall be corrosion resistant by coating electro galvanization, mechanical galvanization, hot dipped galvanization or shall be made of stainless steel, non ferrous metal.

CLAY AND CONCRETE TILE ROOF SPECS

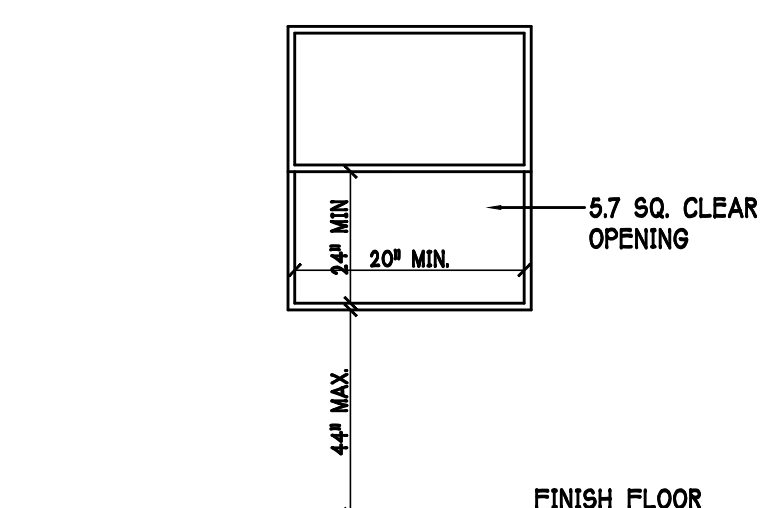
INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF. THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R803.3 F.B.C. MARKING: EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURER'S IDENTIFICATION MARK. APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. TILE PLACEMENT AND SPACING,
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
3. AMOUNT AND PLACEMENT OF MORTAR,
4. AMOUNT AND PLACEMENT OF ADHESIVE,
5. TYPE, NUMBER, SIZE, AND LENGTH OF FASTENERS AND CLIPS,
6. UNDERLAYMENT,
7. SLOPE REQUIREMENT.



TYPICAL WALL SECTION

SCALE: N.T.S.



R3102.1 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).

R3102.1 MINIMUM OPENING HEIGHT:- THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES (610mm).

R3102.1 MINIMUM OPENING WIDTH:- THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES (508mm).

R3101.1 OPERATIONAL CONSTRAINTS:- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS.

R3102.3 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

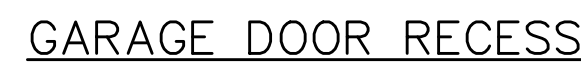
DESIGN IN ACCORDANCE W/ THE 2020 RESIDENTIAL FLORIDA BUILDING CODE- 7TH EDITION

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& Design
Phone (239) 540-1822
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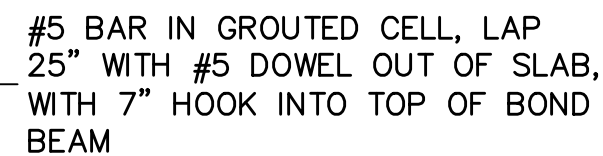
| | | | |
|------------------------------|-----------|---------------------------------|--------------------|
| MODEL: | UNIT 2221 | RESIDENCE FOR: | SPEC |
| LOT: 714 | BLOCK: | | |
| SUBDIV: TOSCANA III & IV 50s | | ADDRESS: 101 VILLA PEROSA PLACE | |
| | | G.C.D.#: 13517 | D.R.H.#: 579580126 |

| | |
|-------------|-------------|
| DATE: | 10-6-21 |
| DRAWN BY: | CWL |
| CHECKED BY: | JWC |
| REVISED: | |
| PLAN: | SECTION |
| SCALE: | 3/16"=1'-0" |
| SHEET# | A-6L |










FOOTING DETAILS

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



| PAD FOOTING SCHEDULE | | | | | | | |
|-------------------------------------|------|--------|-------|-------|---------------|-----------|---------|
| USED | TYPE | LENGTH | WIDTH | DEPTH | BOTTOM REINF. | | REMARKS |
| | | | | | LONG WAY | SHORT WAY | |
| <input checked="" type="checkbox"/> | A | 2'-6" | 2'-6" | 1'-0" | 3-#5 | 3-#5 | - |
| <input type="checkbox"/> | B | 3'-0" | 3'-0" | 1'-0" | 4-#5 | 4-#5 | - |
| <input type="checkbox"/> | C | 3'-6" | 3'-6" | 1'-0" | 4-#5 | 4-#5 | - |
| <input type="checkbox"/> | D | 4'-0" | 4'-0" | 1'-2" | 5-#5 | 5-#5 | - |
| <input type="checkbox"/> | E | 5'-0" | 5'-0" | 1'-2" | 6-#5 | 6-#5 | - |
| <input type="checkbox"/> | | | | | | | |


| WALL FOOTING SCHEDULE | | | | | | |
|-----------------------|------|--------|-------|--------|--------------------|---|
| USED | 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 |  |
| | F5 | CONT. | 1'-4" | 1'-0" | 2-#5 |  |
| | F6 | CONT. | 1'-4" | 1'-0" | 2-#5 |  |
| X | F6A | CONT. | 0'-8" | 0'-8" | 1-#5 |  |

NOTE: REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. ADD CORNER BAR 25"x25" AT EACH LONGITUDINAL BAR PER DETAIL 6/S-3.

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)  DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.
- 4) "P" DENOTES 8"x8" CONCRETE RIBBON w/ 1-#5 BAR AT EDGE OF PAVERS.
- 5) "V#5" DENOTES #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.
- 6) ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.
- 7) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
- 8) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER DETAIL 7/S-3.

[illegible]

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STRUCTURAL
SYSTEMS
OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829



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BUILDER:

D·R·HORTON • PHILADELPHIA, PA.
America's Builder

MODEL 2221 L

101 VILLA PEROSA PLACE
VENICE, FLORIDA 34275
LOT: 714 SUBDIVISION: TOSCANA

LOT:

DESIGN/DRAWN

DWB/GH

CHECKED
DWB

DWB
DATE

DATE
10/12/21

SCALE

VARIES

DP 13517

DR 15517

SHEET

S-1

1-META16
TRUSS A

8x8 CONTINUOUS MASONRY
BOND BEAM AT TOP OF WALL
WITH 1#5 BAR, PROVIDE CORNER
BARS PER 8/S-3

(+33.5, -36.3) WIND PRESSURES PER ASCE7-16, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (V_{as}=124 MPH, RISH CAT II, ENCLOSED, k_d=0.85, H=15')

EMBED 1—META16 AT ALL
TRUSSES EXCEPT AS NOTED
AT GIRDERS

WHERE DRYWALL CEILING IS
APPLIED TO TRUSSES AT 24" O.C.,
USE 5/8" DRYWALL OR 1/2" SAG
RESISTANT PER SETION R702.3.5

PER FBC 2020 R302.6:
Dwelling/garage fire separation – The garage shall be separated from the residence and attics by not less than 1/2 inch gypsum board or equivalent applied to the garage side. Structures supporting floor/ceiling assemblies used for separation shall have not less than 1/2 inch gypsum board or equivalent.

#5 BAR IN GROUTED CELL w/ 7"
HOOK INTO TOP OF BOND BEAM

1-META1

CORNER BARS IN BOND
BEAM PER 8/S-3

SET 8F8-1B LINTEL AT GARAGE
DOOR HEAD HEIGHT, ADD
COURSING AS REQUIRED TO 8x8
BOND BEAM w/ 1#5 , TOP @
9'-4", GROUT ALL SOLID

2X6 PT LEDGER BEHIND GABLE TRUSS AND
OUTLOOKERS PER DETAIL 11/S-3. GABLE
BRACING NOT REQUIRED.

LANAI CEILING
PER 2/S-3

SEE DETAIL 9/S-3
WHERE LINTEL @
— LANAI/ENTRY
INTERSECTS MAIN
WALL, TYPICAL

| TRUSS STRAPPING TO MASONRY | | | |
|--|---------------------------|-------------------------------------|--|
| | MAX TRUSS UPLIFT (LBS) | STRAP/ANCHOR Valid lengths x/x/x | FASTENERS |
| INSTALL — METAGIS AT ALL TRUSSES TO 1450 lb UP/LIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN. | 1450 (1 PLY) | (1) METAGIS/18/20 | (8) 1/4x8-1/2", EMBED 4" |
| | 1810 (1 PLY) | (1) METAGIS/20 | (9) 1/4x8-1/2", EMBED 4" |
| | 1875 (1 PLY) | (2) METAGIS/18/20 | (10) 1/4x8-1/2", EMBED 4" |
| | 1920 (1 PLY) | (2) METAGIS/20 | (10) 1/4x8-1/2", EMBED 4" |
| | 2120 (1 PLY) | (1) HHETAGIS/20 | (10) 1/4x8-1/2", EMBED 4" |
| | 2190 (2 or 3 PLY) | (2) METAGIS/18/20 | (14) 1/6x23-1/2", EMBED 4" |
| | 2365 (3 PLY) | (2) METAGIS/20 | (14) 1/6x23-1/2", EMBED 4" |
| | 3965/D/SP (2 PLY) | MG1 | (22) 1/4x8-3", ATR, EPOXY 12" |
| | 3900/D/SP (1 PLY 2x4) | HTT4 | (18) 1/4x8-1/2", 5/8" ATR, EPOXY 12" |
| | 4455/D/SP (1 PLY 2x6) | HTT4 | (8) SD10x1-1/2", 5/8" ATR, EPOXY 12" |
| | 4500/D/SP (1 PLY 2x6) | HTT5 | (9) SD12x2-1/2", 5/8" ATR, EPOXY 12" |
| | 4555/D/SP (1 PLY 2x6) | HTT5 | (8) SD10x1-1/2", 5/8" ATR, EPOXY 12" |
| | 4670/D/SP (2 PLY 2x4) | HTT5 | (26) 1/4x8-3", 5/8" ATR, EPOXY 12" |
| | 5445/D/SP (2 PLY 2x4) | HTTSKT | (8) SD10x2-1/2", 5/8" ATR, EPOXY 18" |
| | 5690/D/SP (2 PLY) | (1) HGT-3 | (6) 1/4x8-3", (2) 3/4" ATR, EPOXY 12" |
| | 10790/SYP (3 PLY) | (1) HGT-3 | (16) 1/4x8-3", (2) 3/4" ATR, EPOXY 12" |

NOTES:

1. PROVIDE A STRAP FROM THE ABOVE SLIT 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 ϕ 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'S-3 PER UPLIFT IN TRUSS ENGINEERING.

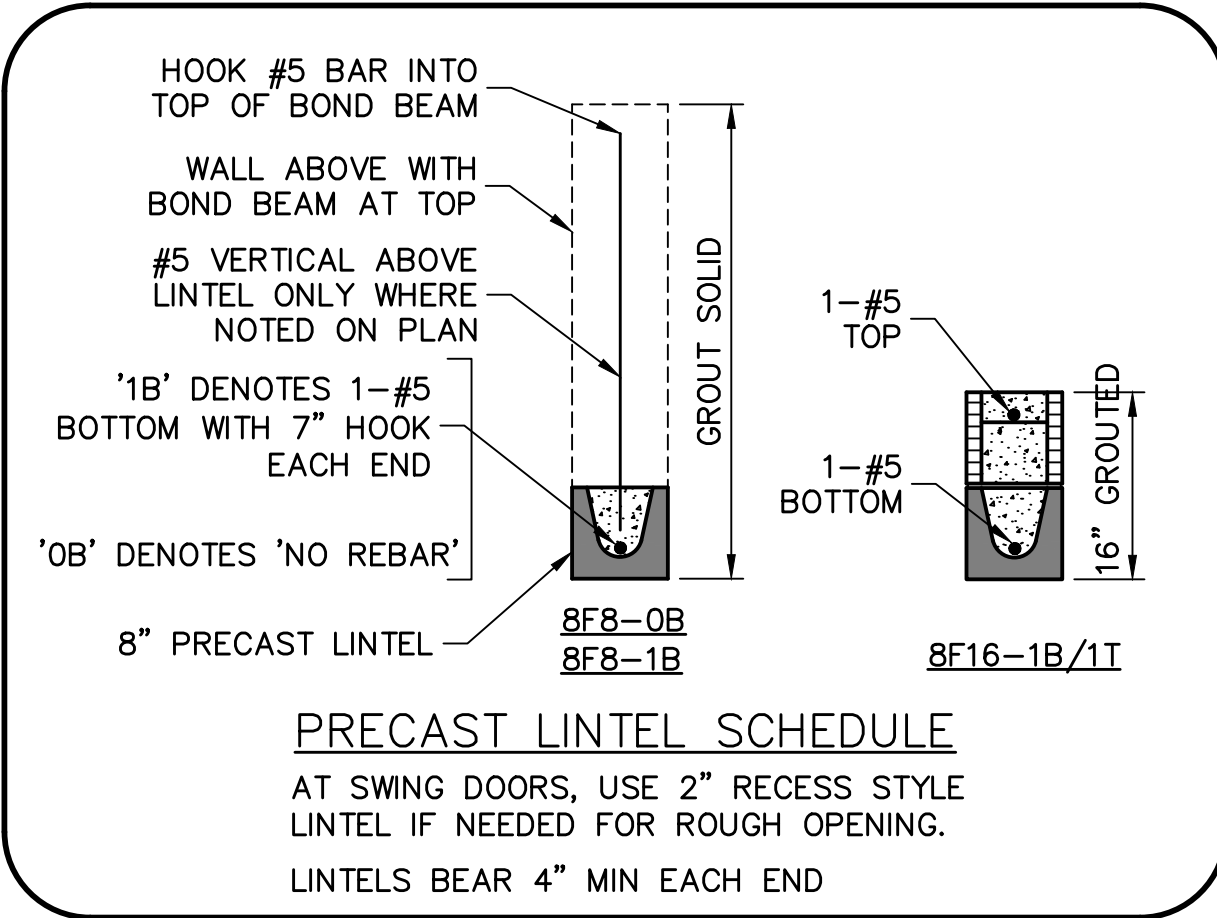
SIMPSON CATALOG C-C-2019

| TRUSS STRAPPING TO STUD WALL/WOOD BEAM | | |
|--|---------------------------------|-------------------------|
| MAX TRUSS UPLIFT (LBS) | STRAP(S) Valid lengths x/x/x | FASTENERS |
| 850 | (1) MTS16/20/30 | (14) 0.148x1-1/2" or 3" |
| 1700 | (2) MTS16/20/30 | EACH STRAP |
| 2550 | (3) MTS16/20/30 | |
| 1125 | (1) HTS20/24/30 | (14) 0.148x1-1/2" |
| 2250 | (2) HTS20/24/30 | OR |
| 3375 | (3) HTS20/24/30 | (20) 0.148x3" |
| 4500 | (4) HTS20/24/30 | 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 PLAN.
- 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" NAIL.
- 4) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.

SIMPSON CATALOG C-C-2019



BEARING LEGEND

| | |
|---|-------------------|
|  | BEARING @ 9'-4" |
|  | BEARING @ 13'-11" |

ROOF FRAMING PLAN

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

- PLAN NOTES:
- 1) ROOF TRUSS BEARING ELEVATION VARIES, SEE LEGEND.
 - 2) ROOF FRAMING SHALL BE WOOD TRUSSES DESIGNED BY A DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEE S-3.
 - 3) PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS SHEET.
 - 4) FOR NAILING OF ROOF DECK, SEE 1 AND 2 ON S-3.
 - 5) 8F8-18 etc, DENOTES PRECAST LINTEL ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.
 - 6) AT TRUSS BEARING, PROVIDE 8x8 MASONRY BOND BEAM w/ 1-#5 CONTINUOUS, SEE DETAIL 10/S-3.
 - 7) FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/DOOR SUPPLIER.
 - 8) PROVIDE PRESSURE TREATED BUCKS AT WINDOWS / DOORS PER DETAIL 7/S-3.

[illegible]

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BUILDER:

D.R. HORTON • RHI
NYSE
America's Builder

MODEL 2221 L

| |
|------------------------|
| DESIGN/DRAWN DWB/GH |
| CHECKED DWB |
| DATE 10/12/21 |
| SCALE VARIES |

DR 13517
SHEET

S-2

SHEET 2 OF 4

FOR BUILDERS FIRST SOURCE TRUSS, 160 MPH, EXPOSURE C, MODEL 2221, ELEVATION L, JOB # MASTER, DATE DRAWN: 08/10/20, DATE PRINTED: 01/21/21 REVISED: 01/21/21

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

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.

4 RETROFIT UPLIFT CONNECTOR SCHEDULE

BUCK FASTENING

8" CMU WALLS

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

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

8" CMU, SEE PLAN FOR REINFORCING

DOOR

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

2x2x1/2" WASHER

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

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.

TRUSS STRAP TO BOND BEAM

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

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.

2x SUBFASCIA w/ 2-16d TO EACH TRUSS

TRUSS BEARING

APPROVED ISOLATION PLATE

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

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

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

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

8" MASONRY

10 TRUSS STRAP TO BOND BEAM

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

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

SLAB SAWCUT DETAIL

SCALE: NTS

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.

5 SLAB SAWCUT DETAIL

SCALE: NTS

CORNER BAR DETAIL IN BOND BEAMS

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

INTERSECTION

CORNER

#5 CORNER BAR, 25"x25"

MASONRY BOND BEAM, TYPICAL

8 CORNER BAR DETAIL IN BOND BEAMS

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

OUTLOOKER DETAIL AT DROP GABLE

SCALE: N.T.S.

2x4 BLOCK AT SHEATHING JOINT

ROOF SHEATHING, SEE SCHEDULE

2x4 OUTLOOKER

H2.5A CLIP @ EA. OUTLOOKER TO TRUSS

TRUSS TOP CHORD, DROP 3 1/2"

BRACE VERTICAL MEMBERS

MID WALL WEEP SCREED

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

MASONRY WALL, SEE PLAN

2x6 PT SILL w/ 1/2"x6" ANCHOR BOLTS @ 32" O.C. w/ 2" WASHER

3-12d TOE NAILS

NO GABLE END BRACING REQUIRED

USED ONLY ON 'L'

11 OUTLOOKER DETAIL AT DROP GABLE

SCALE: N.T.S.

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES

WIND PRESSURES PER ASCE7-16, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (V=90=124 MPH, RISK CAT II, ENCLOSED, Kd=0.85, h=15')

| 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 | |
| 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 BATTENS 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 WIDTH = 4'-0" MEASURED FROM FACE OF WALL (FIG R301.2(7))

TYPICAL HOUSE PLAN

STEP FOOTING

SCALE: NTS

FOOTING REIN., SEE PLAN

MAINTAIN RUN TO RISE OF 2:1 OR MORE

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

FOOTING CORNER BARS

SCALE: NTS

STEPPED BOND BEAM & REINFORCING

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

UPPER BOND BEAM, SEE PLAN

HOOK BAR INTO TOP OF UPPER BOND BEAM

VERTICAL BOND BEAM, 8"x8" CMU w/ #5 VERTICAL

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

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

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

BEARING

#5 VERTICAL IN GROUTED CELL AT DOT LOCATIONS ON PLAN

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

MASONRY WALL

TRUSS STRAP TO BOND BEAM

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

ROOF SHEATHING, SEE SCHEDULE

2x4 BLOCKING

2x4 OUTLOOKER

H2.5A CLIP @ EA. OUTLOOKER TO TRUSS

TRUSS TOP CHORD, DROP 3 1/2"

BRACE VERTICAL MEMBERS

MID WALL WEEP SCREED

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

MASONRY WALL, SEE PLAN

2x6 PT SILL w/ 1/2"x6" ANCHOR BOLTS @ 32" O.C. w/ 2" WASHER

3-12d TOE NAILS

NO GABLE END BRACING REQUIRED

USED ONLY ON 'L'

11 OUTLOOKER DETAIL AT DROP GABLE

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/ TOLL)
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 (V=90=124 MPH)
BUILDING CATEGORY II
IMPORTANCE FACTOR 1.00
EXPOSURE C
MEAN ROOF HEIGHT = 15 FT
ROOF PITCH 5/12
ENCLOSURE CLASS ENCLOSED
INTERNAL PRESS. 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
3/4" MINIMUM THICKNESS REINFORCED WITH 6x6 w/4xw/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"
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 40 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, HB-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.

FBC R703.7 EXTERIOR PLASTER

ASTM C926 AND ASTM C1063

THE CODE SECTIONS REFERENCED BELOW ARE FOR SUMMARY PURPOSES. SEE THE FLORIDA BUILDING CODE AND THE ASTM STANDARDS FOR FULL DESCRIPTIONS AND REQUIREMENTS.

R703.7.1 Lath: Where required by the wall framing type, install metal lath per ASTM C1063 or non metallic lath per ASTM C1787. Use self furring lath as required by the ASTM spec. Use paper backed lath as required per Water Resistive Barrier specs.

R703.7.2 Plaster: Install portland cement based plaster and number of coats per ASTM C926 and thickness per Table R702.1(1).

R703.7.3 Water Resistive Barriers: Install water resistive barriers per R703.2 and water resistive vapor-permeable barrier over stud walls. (Note: ZIP wall sheathing with seam tape qualifies as the first layer)

R703.7.2.1 Weep Screed: Weep screed shall be installed at the bottom edge of all exterior wood stud framed walls (including gable end trusses) receiving lath and plaster.

Note: Exterior Stud Walls includes Gable End Trusses or Floor Trusses with Wall Sheathing.

STUD FRAMING OR FLOOR TRUSS OR GABLE END WITH WALL SHEATHING

MASONRY WALL

EXTERIOR WALL WITH PLASTER

THICKNESSES ARE EXAGGERATED FOR DRAWING PURPOSES

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STRUCTURAL ENGINEERING: RAUL REYES

STRUCTURAL SYSTEMS OF NORTH FLORIDA

1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829

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

REVISIONS

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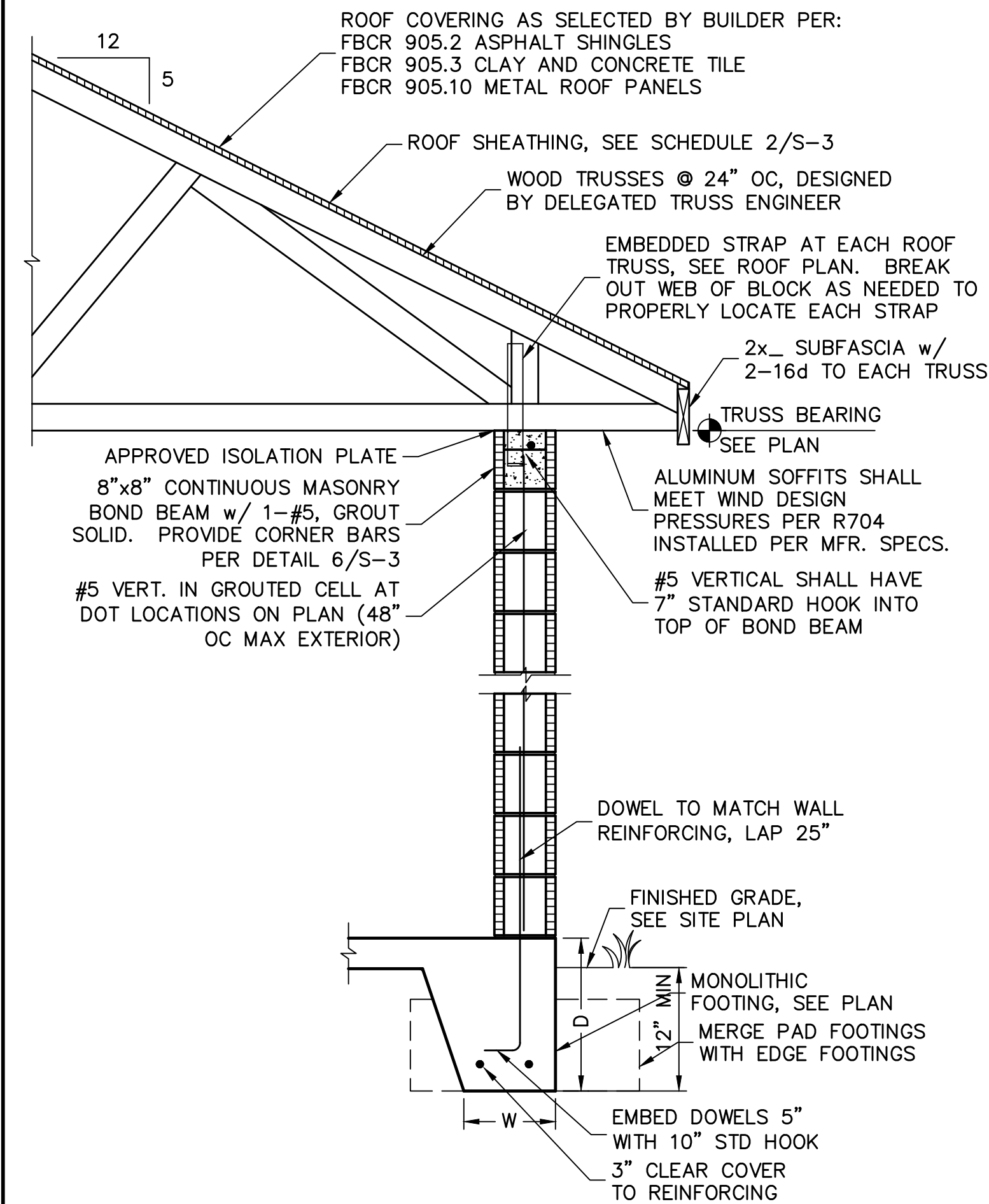
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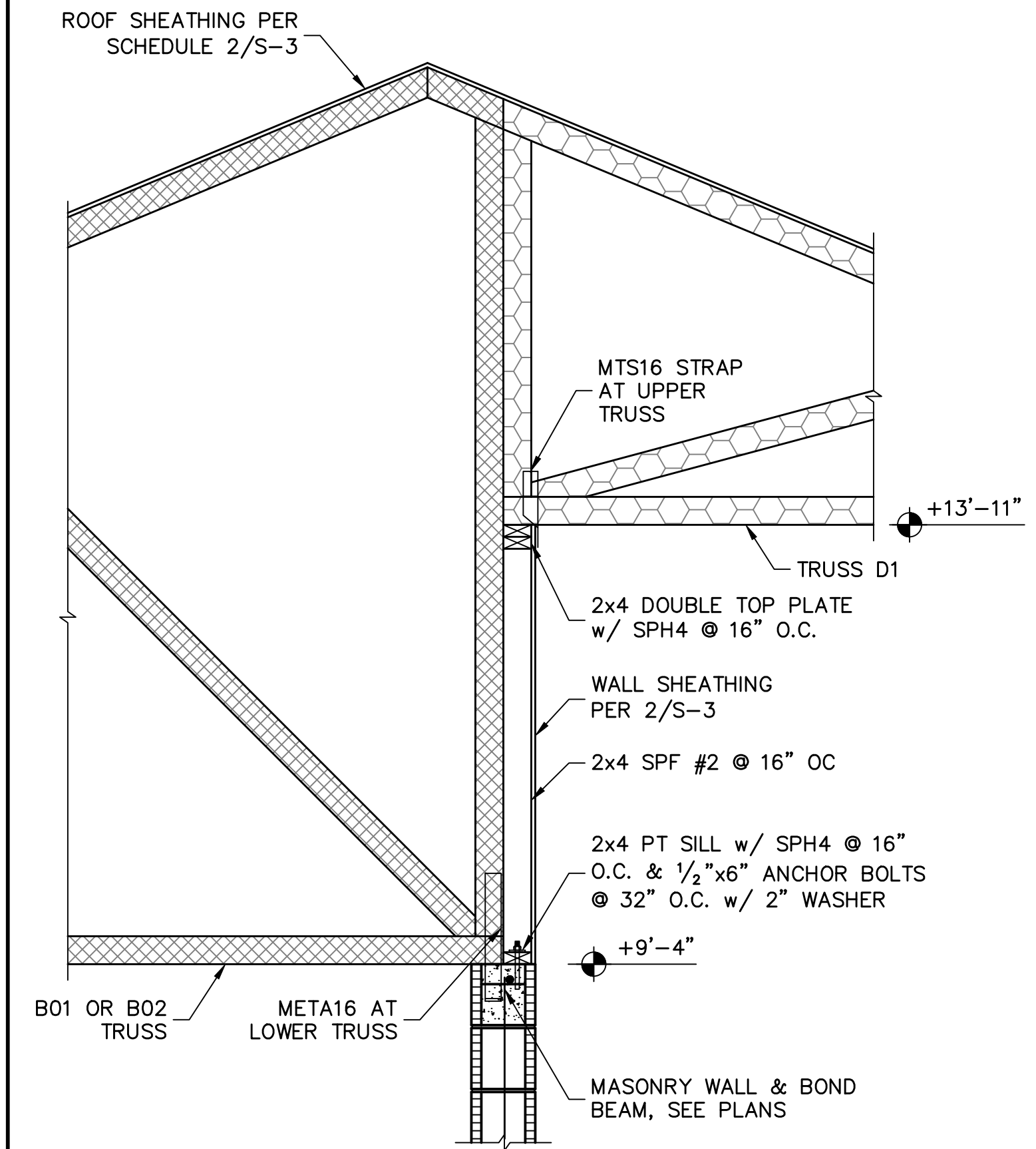
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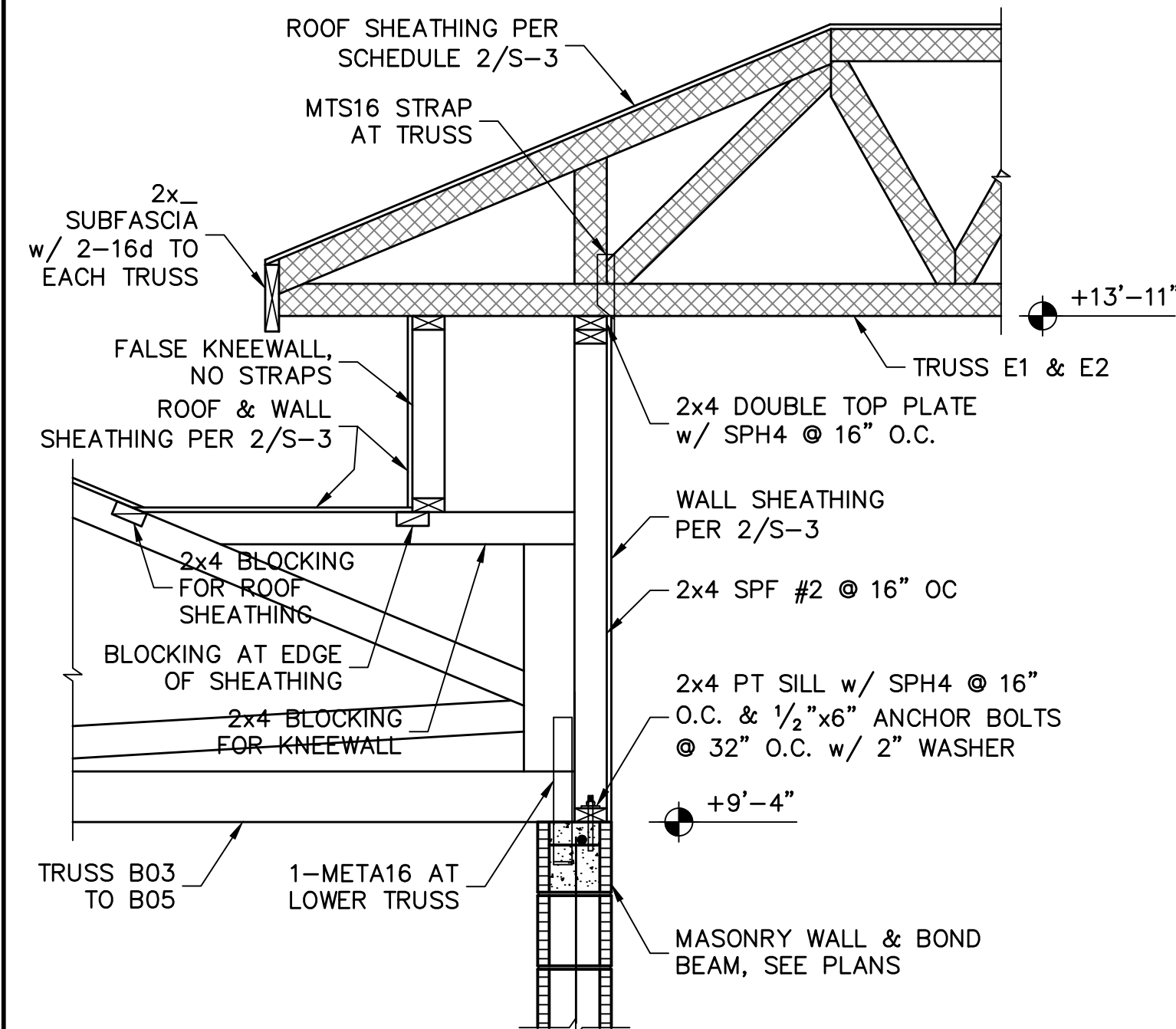
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1 FULL HEIGHT WALL SECTION
SCALE: 3/4" = 1'-0"



2 KNEEWALL @ ENTRY 'L'
SCALE: 3/4" = 1'-0"



3 KNEEWALL @ ENTRY 'M'
SCALE: 3/4" = 1'-0"

FOR BUILDERS FIRST SOURCE TRUSS, 160 MPH, EXPOSURE C, MODEL 2221, ELEVATION L, JOB # MASTER, DATE DRAWN: 06/10/20, DATE PRINTED: 01/21/21 REVISED: 01/21/21

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

BUILDER: DR. RHONON R. America's Builder

MODEL 2221 L
101 VILLA PEROSA PLACE
VENICE, FLORIDA 34275
LOT: 714 SUBDIVISION: TOSSCANA

DESIGN/DRAWN
DWB/GH
CHECKED
DWB
DATE
10/12/21
SCALE
VARIES
DR 13517
SHEET

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SHEET 4 OF 4

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STRUCTURAL ENGINEERING:
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 545-4554
CA # 8829

PAUL REYES
FLORIDA
LICENSE
No. 88925
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This form has been digitally signed by Paul Reyes on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the seal is not to be attached on any electronic copies.



Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 2221_L_160_C_2020 -

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: DR Horton Project Name: 2221 L 160 C 2020 Model: 2221 L
Lot/Block: MASTER Subdivision: MASTER
Address: MASTER, N/A
City: MASTER State: Florida

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address: State:
City:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 160 mph
Roof Load: 50.0 psf Floor Load: N/A psf

This package includes 32 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

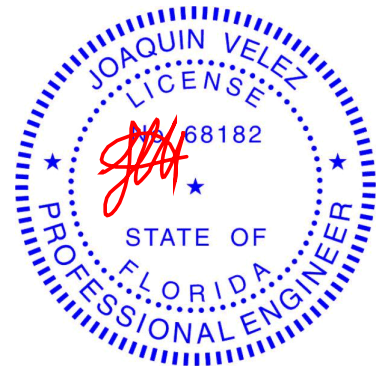
| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|--------|-----|-----------|------------|--------|
| 1 | T22666892 | A01 | 2/1/21 | 23 | T22666914 | D4 | 2/1/21 |
| 2 | T22666893 | A02 | 2/1/21 | 24 | T22666915 | EJ7 | 2/1/21 |
| 3 | T22666894 | A03 | 2/1/21 | 25 | T22666916 | EJ7A | 2/1/21 |
| 4 | T22666895 | A04 | 2/1/21 | 26 | T22666917 | EJ7B | 2/1/21 |
| 5 | T22666896 | A05 | 2/1/21 | 27 | T22666918 | HJ10 | 2/1/21 |
| 6 | T22666897 | A06 | 2/1/21 | 28 | T22666919 | HJ10A | 2/1/21 |
| 7 | T22666898 | A07 | 2/1/21 | 29 | T22666920 | V1 | 2/1/21 |
| 8 | T22666899 | A08 | 2/1/21 | 30 | T22666921 | V2 | 2/1/21 |
| 9 | T22666900 | A10 | 2/1/21 | 31 | T22666922 | V3 | 2/1/21 |
| 10 | T22666901 | A11 | 2/1/21 | 32 | T22666923 | V4 | 2/1/21 |
| 11 | T22666902 | A12 | 2/1/21 | | | | |
| 12 | T22666903 | A13 | 2/1/21 | | | | |
| 13 | T22666904 | B01 | 2/1/21 | | | | |
| 14 | T22666905 | B02 | 2/1/21 | | | | |
| 15 | T22666906 | CJ1 | 2/1/21 | | | | |
| 16 | T22666907 | CJ3 | 2/1/21 | | | | |
| 17 | T22666908 | CJ3A | 2/1/21 | | | | |
| 18 | T22666909 | CJ5 | 2/1/21 | | | | |
| 19 | T22666910 | CJ5A | 2/1/21 | | | | |
| 20 | T22666911 | D1 | 2/1/21 | | | | |
| 21 | T22666912 | D2 | 2/1/21 | | | | |
| 22 | T22666913 | D3 | 2/1/21 | | | | |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Punta Gorda, FL).

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2023.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1, 2021

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | A01 | Hip Girder | 1 | 2 | T22666892 |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:01 2021 Page 1

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| 1-6-8 | 3-10-8 | 7-0-0 | 10-11-4 | 14-10-8 | 16-2-8 | 19-10-8 | 24-11-8 | 25-1-4 | 30-4-0 | 35-5-0 | 40-10-8 | 42-5-0 |
| 1-6-8 | 2-4-0 | 3-1-8 | 3-11-4 | 3-11-4 | 1-4-0 | 3-8-0 | 5-1-0 | 0-1-12 | 5-2-12 | 5-1-0 | 5-5-8 | 1-6-8 |

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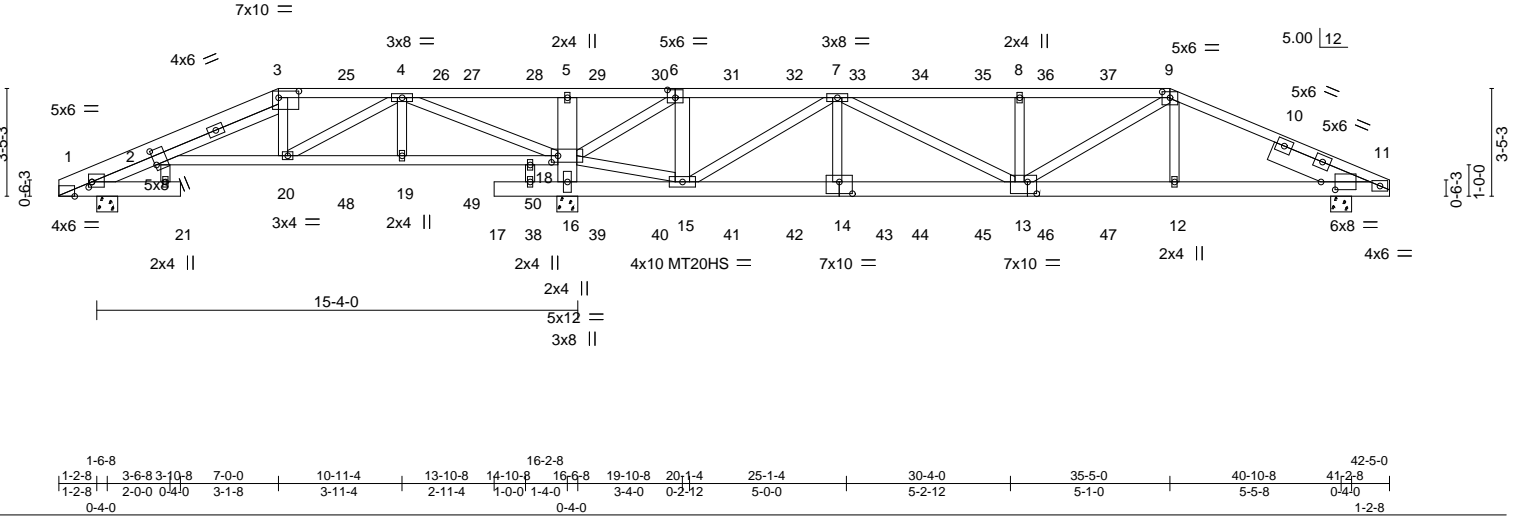


Plate Offsets (X,Y)-- [1:0-1-4,0-2-1], [1:0-6-10,Edge], [2:0-5-12,0-0-7], [3:0-7-12,0-2-8], [6:0-3-0,0-3-0], [9:0-3-0,0-2-4], [11:0-5-7,0-3-0], [13:0-3-8,0-4-8], [14:0-5-0,0-4-8], [18:0-2-8,0-2-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.73 | Vert(LL) 0.15 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL 1.25 | BC 0.32 | Vert(CT) -0.18 | 21 | >999 | 180 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.48 | Horz(CT) -0.06 | 1 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-S | | | | | Weight: 537 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-3: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
22-23: 2x4 SP No.3, 2-18: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
6-15: 2x6 SP No.2, 5-16: 2x8 SP 2400F 2.0E
SLIDER Right 2x8 SP 2400F 2.0E - 3-3-10

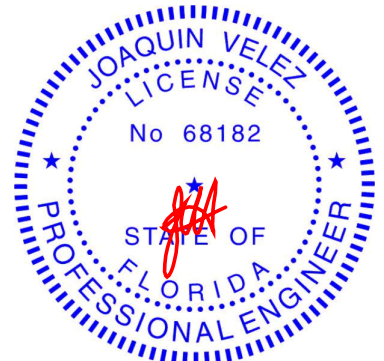
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-16,19-20,18-19.

REACTIONS. (size) 1=0-8-0, 16=0-8-0, 11=0-8-0
Max Horz 11=115(LC 7)
Max Uplift 1=104(LC 8), 16=2263(LC 8), 11=1152(LC 8)
Max Grav 1=552(LC 17), 16=4462(LC 1), 11=1758(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-11=-3551/2281, 3-4=-674/135, 4-5=-1531/3366, 5-6=-1470/3210, 6-7=-408/722,
7-8=-3829/2618, 8-9=-3829/2618, 2-3=-730/142
BOT CHORD 15-16=-1574/768, 14-15=-1957/2905, 13-14=-1959/2910, 12-13=-1972/3137,
11-12=-1977/3149, 2-20=-76/702, 19-20=-343/612, 18-19=-343/612
WEBS 9-12=-111/412, 6-15=-751/1352, 15-18=-1185/1831, 6-18=-3864/2329, 4-18=-3292/1284,
4-19=0/307, 4-20=-483/1157, 3-20=-408/305, 7-15=-2981/1757, 9-13=-660/882,
7-14=-109/422, 8-13=-750/555, 7-13=-609/1086, 16-18=-4559/2415, 5-18=-624/388

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide connects between the bottom chord and any other members.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

| | | | | | |
|-------------------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | T22666892 |
| 2221_L_160_C_2020 | A01 | Hip Girder | 1 | 2 | Job Reference (optional) |

- NOTES-**
- 10) Solid blocking is required on both sides of the truss at joint(s), 1.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 1, 2263 lb uplift at joint 16 and 1152 lb uplift at joint 11.
 - 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 257 lb down and 467 lb up at 35-5-0, 107 lb down and 187 lb up at 33-4-4, 107 lb down and 187 lb up at 31-4-4, 107 lb down and 187 lb up at 29-4-4, 107 lb down and 187 lb up at 27-4-4, 107 lb down and 187 lb up at 25-4-4, 107 lb down and 187 lb up at 23-4-4, 107 lb down and 187 lb up at 21-4-4, 107 lb down and 187 lb up at 21-0-12, 107 lb down and 187 lb up at 19-0-12, 107 lb down and 187 lb up at 17-0-12, 107 lb down and 187 lb up at 15-0-12, 72 lb down and 152 lb up at 13-0-12, 72 lb down and 152 lb up at 11-0-12, and 72 lb down and 152 lb up at 9-0-12, and 154 lb down and 339 lb up at 7-0-0 on top chord, and 141 lb down at 35-5-0, 60 lb down at 33-4-4, 60 lb down at 31-4-4, 60 lb down at 29-4-4, 60 lb down at 27-4-4, 60 lb down at 25-4-4, 60 lb down at 23-4-4, 60 lb down at 21-4-4, 60 lb down at 21-0-12, 60 lb down at 19-0-12, 60 lb down at 17-0-12, 60 lb down at 15-0-4, 45 lb down at 13-0-12, 45 lb down at 11-0-12, and 45 lb down at 9-0-12, and 109 lb down and 1 lb up at 7-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 9-11=-80, 3-9=-80, 1-3=-80, 11-17=-20, 2-18=-20, 1-21=-20
 - Concentrated Loads (lb)
 - Vert: 3=-154(B) 12=-87(B) 19=-35(B) 20=-69(B) 4=-72(B) 9=-257(B) 25=-72(B) 27=-72(B) 28=-107(B) 29=-107(B) 30=-107(B) 31=-214(B) 32=-107(B) 33=-107(B) 34=-107(B) 35=-107(B) 36=-107(B) 37=-107(B) 38=-41(B) 39=-41(B) 40=-41(B) 41=-81(B) 42=-41(B) 43=-41(B) 44=-41(B) 45=-41(B) 46=-41(B) 47=-41(B) 48=-35(B) 49=-35(B)

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666894 |
| 2221_L_160_C_2020 | A03 | Hip | 1 | 1 | |

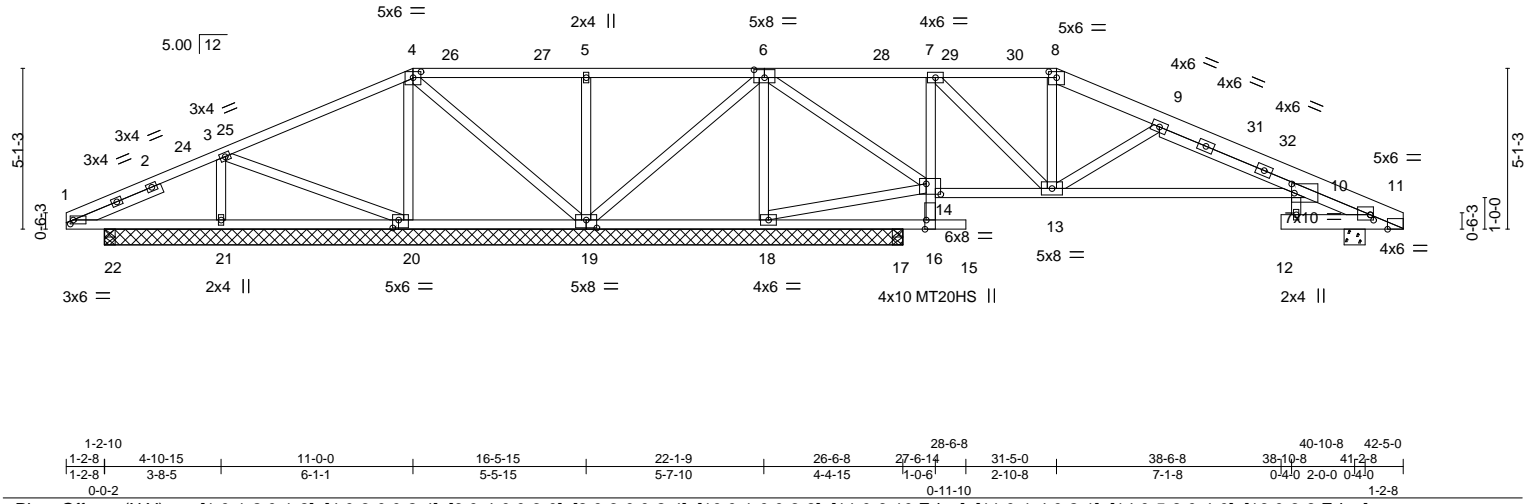
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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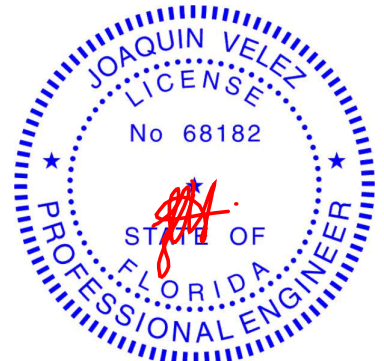
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|-----------------------|--|---|--|--------------|--|-------------|--|--------------|--|-----------------|--|---------------|--|------------|--|----------------|--|-------------|--|
| Plate Offsets (X,Y)-- | | [1:0-1-2,0-1-8], [4:0-3-0,0-2-4], [6:0-4-0,0-3-0], [8:0-3-0,0-2-4], [10:0-1-0,0-3-8], [11:0-6-10,Edge], [11:0-1-4,0-2-1], [14:0-5-8,0-4-0], [16:0-3-8,Edge], [19:0-4-0,0-3-0], [20:0-2-4,0-3-0] | | | | | | | | | | | | | | | | | |
| LOADING (psf) | | SPACING- | | 2-0-0 | | CSI. | | DEFL. | | in (loc) | | l/defl | | L/d | | PLATES | | GRIP | |
| TCLL 20.0 | | Plate Grip DOL | | 1.25 | | TC 0.60 | | Vert(LL) | | 0.16 12 | | >999 | | 240 | | MT20 | | 244/190 | |
| TCDL 20.0 | | Lumber DOL | | 1.25 | | BC 0.98 | | Vert(CT) | | -0.38 12 | | >495 | | 180 | | MT20HS | | 187/143 | |
| BCLL 0.0 * | | Rep Stress Incr | | YES | | WB 0.64 | | Horz(CT) | | 0.07 11 | | n/a | | n/a | | | | | |
| BCDL 10.0 | | Code FBC2020/TPI2014 | | | | Matrix-S | | | | | | | | | | Weight: 256 lb | | FT = 20% | |

| | |
|---|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 *Except* 8-11: 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 P *Except* 7-16: 2x4 SP No.3, 10-14: 2x4 SP No.2, 11-12: 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 5-0-1 oc bracing. Except: 2-2-0 oc bracing: 14-16 |
| WEBS 2x4 SP No.3 | |
| SLIDER Left 2x4 SP No.3 -t 3-0-0 | |

REACTIONS. All bearings 25-4-0 except (jt=length) 11=0-8-0, 17=0-4-0, 22=0-4-0.
 (lb) - Max Horz 21=178(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 22 except 11=170(LC 12),
 21=208(LC 12), 19=238(LC 12), 18=429(LC 12), 17=124(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 22 except 11=583(LC 18), 21=558(LC 21), 20=380(LC 17), 19=580(LC 21), 18=1628(LC 22), 17=584(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=177/329, 3-4=77/454, 4-5=169/768, 5-6=169/768, 6-7=71/672, 9-10=770/378
 BOT CHORD 20-21=273/188, 19-20=386/260, 18-19=1353/575, 17-18=301/114, 16-17=301/114,
 14-16=444/188, 7-14=1130/467, 13-14=755/369, 10-13=256/752
 WEBS 3-21=468/334, 4-19=575/256, 5-19=479/291, 6-19=164/744, 6-18=1373/510,
 14-18=1073/471, 6-14=282/796, 7-13=334/1073, 9-13=830/451

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 16-5-15, Interior(1) 16-5-15 to 31-5-0, Exterior(2R) 31-5-0 to 37-0-14, Interior(1) 37-0-14 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- Corrosion protection required on both sides of the truss at joint(s), 11.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

February 1,2021

| Job | Truss | Truss Type | Qty | Ply | |
|--------------------------|-------|------------|-----|-----|-----------|
| 2221_L_160_C_2020 | A03 | Hip | 1 | 1 | T22666894 |
| Job Reference (optional) | | | | | |

NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 22 except (jt=lb) 11=170, 21=208, 19=238, 18=429, 17=124.

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | A04 | Hip | 1 | 1 | T22666895 |

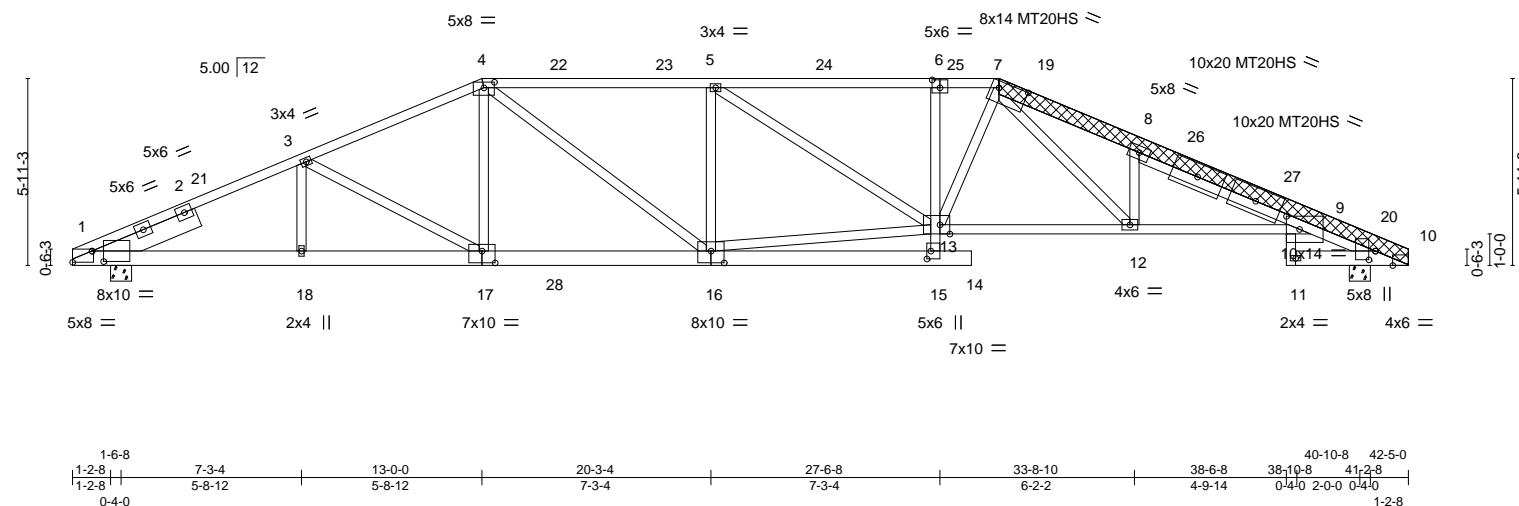
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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| | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|---------|--------|---------|--------|
| 1-6-8 | 7-3-4 | 13-0-0 | 20-3-4 | 27-6-8 | 29-5-0 | 33-8-10 | 38-6-8 | 40-10-8 | 42-5-0 |
| 1-6-8 | 5-8-12 | 5-8-12 | 7-3-4 | 7-3-4 | 1-10-8 | 4-3-10 | 4-9-14 | 2-4-0 | 1-6-8 |

Scale = 1:73.2



| | |
|------------------------|--|
| Plate Offsets (X, Y)-- | [1:Edge,0-4-5], [1:0-4-7,0-4-0], [4:0-4-0,0-2-2], [6:0-3-0,0-3-0], [7:0-11-0,0-2-8], [9:0-5-0,0-5-0], [10:0-6-10,Edge], [10:0-3-5,0-2-8], [13:0-3-12,Edge], [15:0-3-0,0-1-8], [16:0-5-0,0-4-8], [17:0-5-0,0-4-8] |
|------------------------|--|

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|-------------------------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.96 | Vert(LL) | 0.45 | 14 | >999 | 240 | MT20 244/190 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.99 | Vert(CT) | -0.93 | 12-13 | >538 | 180 | MT20HS 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.99 | Horz(CT) | 0.42 | 10 | n/a | n/a | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | Weight: 354 lb FT = 20% |

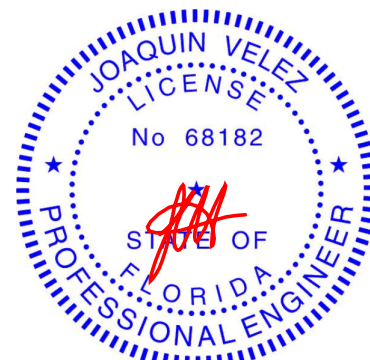
| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 *Except* 4-6: 2x4 SP M 31, 7-10: 2x6 SP M 26, 6-7: 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.2 *Except* 6-15: 2x4 SP No.3, 9-13: 2x4 SP M 31 | BOT CHORD Rigid ceiling directly applied or 5-11-4 oc bracing. Except: 2-2-0 oc bracing: 13-15 |
| WEBS 2x4 SP No.3 *Except* 13-16: 2x4 SP No.2 | |
| OTHERS 2x6 SP M 26 | |
| LBR SCAB 7-10 2x6 SP M 26 both sides | |
| SLIDER Left 2x8 SP 2400F 2.0E -t 3-6-5 | |

| | |
|-------------------|---|
| REACTIONS. | (size) 10=0-8-0, 1=0-8-0 Max Horz 1=208(LC 11) Max Uplift 10=603(LC 12), 1=613(LC 12) Max Grav 10=2372(LC 18), 1=2353(LC 17) |
|-------------------|---|

| | |
|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 1-3=-4796/1537, 3-4=-4117/1409, 4-5=-4329/1570, 5-6=-4718/1651, 6-7=-4755/1657, 7-8=-6563/2198, 8-9=-6124/1914, 9-10=-815/297 |
| BOT CHORD | 1-18=-1306/4436, 17-18=-1306/4436, 16-17=-1032/3820, 15-16=-132/499, 6-13=-349/262, 12-13=-1212/4345, 9-12=-1722/5872 |
| WEBS | 3-17=-699/312, 4-17=-91/637, 4-16=-275/948, 5-16=-894/424, 13-16=-1113/3932, 5-13=-105/500, 7-13=-296/973, 7-12=-745/2230, 8-12=-1460/646 |

- NOTES-**
- Attached 14-3-5 scab 7 to 10, both face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 8-5-9 from end at joint 7, nail 3 row(s) at 4" o.c. for 5-3-15.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 13-0-6, Exterior(2R) 13-0-6 to 18-8-4, Interior(1) 18-8-4 to 29-5-0, Exterior(2R) 29-5-0 to 35-0-14, Interior(1) 35-0-14 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Solid blocking is required on both sides of the truss at joint(s), 10.

Continued on page 2



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | |
|--------------------------|-------|------------|-----|-----|-----------|
| 2221_L_160_C_2020 | A04 | Hip | 1 | 1 | T22666895 |
| Job Reference (optional) | | | | | |

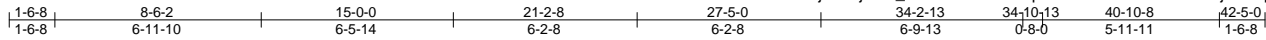
NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=603, 1=613.

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | A05 | Hip | 1 | 1 | T22666896 |

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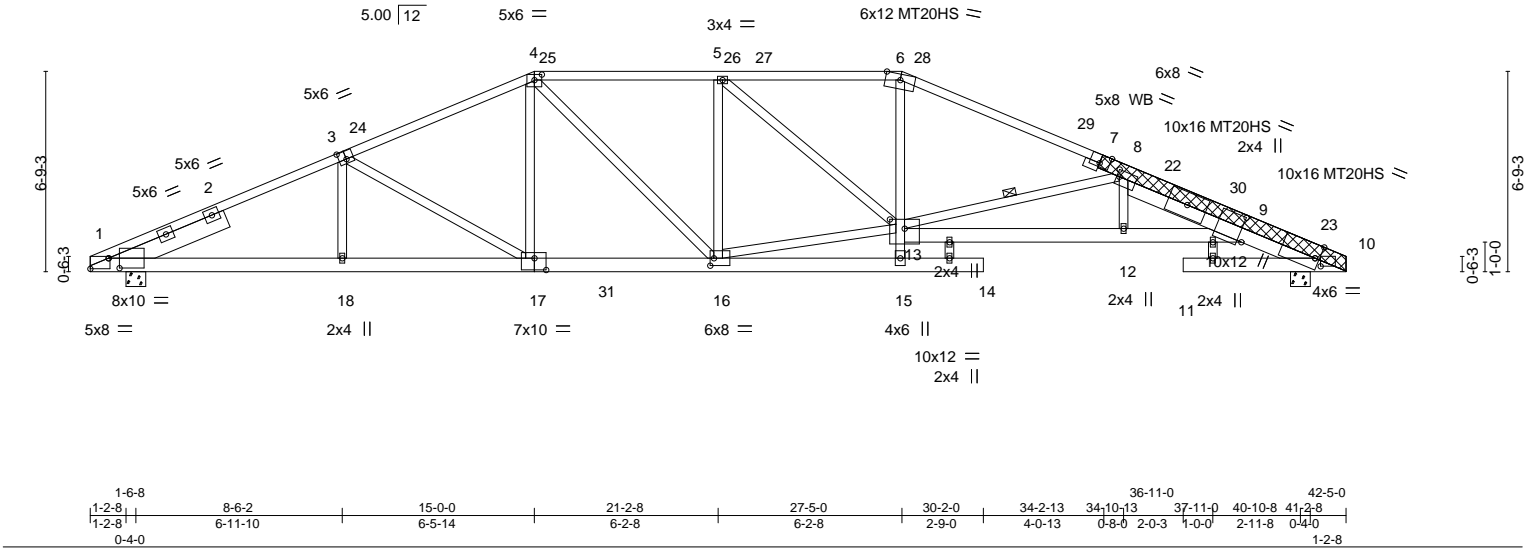


Plate Offsets (X,Y)-- [1:Edge,0-4-5], [1:0-4-7,0-4-0], [3:0-3-0,0-3-4], [4:0-3-0,0-2-4], [7:0-4-0,Edge], [8:0-1-0,0-2-12], [9:0-10-0,0-1-14], [10:0-2-4,0-3-4], [10:0-1-12,Edge], [13:0-6-0,0-3-12], [16:0-1-8,0-3-0], [17:0-4-12,0-4-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----|-------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.94 | Vert(LL) -0.58 | 11 | >860 | 240 | | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL 1.25 | BC 0.96 | Vert(CT) -1.35 | 11 | >371 | 180 | | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.94 | Horz(CT) 0.36 | 10 | n/a | n/a | | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-S | | | | | | | |
| | | | | | | | | Weight: 347 lb | FT = 20% |

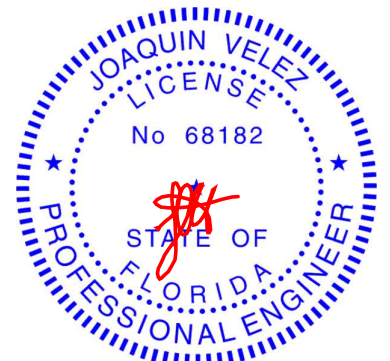
LUMBER-
TOP CHORD 2x4 SP M 31 *Except*
4-6: 2x4 SP No.2, 1-3: 2x4 SP No.1, 7-10,8-10: 2x6 SP M 26
BOT CHORD 2x6 SP No.2 *Except*
6-15: 2x4 SP No.3, 9-13: 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
13-16: 2x4 SP No.2
OTHERS 2x6 SP M 26 *Except*
7-7: 2x4 SP No.3
LBR SCAB 7-10 2x6 SP M 26 both sides
SLIDER Left 2x8 SP 2400F 2.0E -t 4-2-6

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-7-1 oc bracing. Except:
10-0-0 oc bracing: 13-15
WEBS 1 Row at midpt 8-13

REACTIONS. (size) 10=0-8-0, 1=0-8-0
Max Horz 1=240(LC 10)
Max Uplift 10=572(LC 12), 1=605(LC 12)
Max Grav 10=2467(LC 18), 1=2380(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-4800/1502, 3-4=-3919/1337, 4-5=-3837/1398, 5-6=-4222/1419, 6-8=-4683/1471, 8-9=-6842/2051, 9-10=-830/298
BOT CHORD 1-18=-1258/4457, 17-18=-1260/4452, 16-17=-925/3638, 15-16=-140/346, 13-15=0/271, 6-13=-279/1329, 12-13=-1917/6715, 9-12=-1920/6719
WEBS 3-18=0/291, 3-17=-941/388, 4-17=-132/747, 4-16=-160/626, 5-16=-847/348, 13-16=-898/3605, 5-13=-27/541, 8-13=-2667/906

- NOTES-**
- Attached 9-1-1 scab 7 to 10, both face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 3-4-8 from end at joint 7, nail 2 row(s) at 7" o.c. for 3-0-14; starting at 6-8-7 from end at joint 7, nail 3 row(s) at 4" o.c. for 2-0-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 15-0-0, Exterior(2R) 15-0-0 to 20-7-14, Interior(1) 20-7-14 to 27-4-10, Exterior(2R) 27-4-10 to 33-0-9, Interior(1) 33-0-9 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - On both long edges required on both sides of the truss at joint(s), 10.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

| Job | Truss | Truss Type | Qty | Ply | |
|--------------------------|-------|------------|-----|-----|-----------|
| 2221_L_160_C_2020 | A05 | Hip | 1 | 1 | T22666896 |
| Job Reference (optional) | | | | | |

NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=572, 1=605.

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666897 |
| 2221_L_160_C_2020 | A06 | HIP | 1 | 1 | |

Builders FirstSource (Punta Gorda, FL),
Punta Gorda, FL - 33950,

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1-6-8
1-6-8

6-1-2
4-6-10

12-0-3
5-11-1

17-0-0
4-11-13

21-2-8
4-2-8

25-5-0
4-2-8

30-4-13
4-11-13

36-3-14
5-11-1

40-10-8
4-6-10

42-5-0
1-6-8

Scale = 1:73.0

| | | | | | | | | | | | |
|------------------------|-----------------|--|----------|----------|-------------|--------|-----|----------------|----------|--|--|
| Plate Offsets (X, Y)-- | | [1:Edge,0-4-5], [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [5:0-3-0,0-2-4], [7:0-3-0,0-2-4], [9:0-3-0,0-3-0], [11:0-4-7,0-5-0], [11:Edge,0-4-5] | | | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | | |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.88 | Vert(LL) | -0.34 14-15 | >999 | 240 | MT20 | 244/190 | | |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.85 | Vert(CT) | -0.71 14-15 | >705 | 180 | | | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.96 | Horz(CT) | 0.18 11 | n/a | n/a | | | | |
| BCDL 10.0 | Code | FBC2020/TPI2014 | Matrix-S | | | | | | | | |
| | | | | | | | | Weight: 268 lb | FT = 20% | | |

| | | | |
|----------------|---|-----------------|--|
| LUMBER- | | BRACING- | |
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied. |
| BOT CHORD | 2x6 SP No.2 *Except* | BOT CHORD | Rigid ceiling directly applied or 5-11-0 oc bracing. |
| | 13-16: 2x4 SP No.1 | WEBS | 1 Row at midpt 6-15, 6-14 |
| WEBS | 2x4 SP No.3 | | |
| OTHERS | 2x4 SP No.3 | | |
| SLIDER | Left 2x8 SP 2400F 2.0E -t 3-0-0, Right 2x8 SP 2400F 2.0E -t 3-0-0 | | |

| | |
|-------------------|--|
| REACTIONS. | (size) 1=0-8-0, 11=0-8-0 |
| | Max Horz 1=271(LC 11) |
| | Max Uplift 1=618(LC 12), 11=618(LC 12) |
| | Max Grav 1=2348(LC 17), 11=2348(LC 18) |

| | |
|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 1-3=-4783/1592, 3-4=-4472/1494, 4-5=-3493/1314, 5-6=-3182/1269, 6-7=-3184/1269, 7-8=-3496/1314, 8-9=-4474/1494, 9-11=-4785/1592 |
| BOT CHORD | 1-17=-1353/4469, 15-17=-1129/3925, 14-15=-901/3307, 12-14=-1125/3724, 11-12=-1348/4267 |
| WEBS | 3-17=-336/281, 4-17=-84/595, 4-15=-942/414, 5-15=-300/1018, 6-15=-363/149, 6-14=-363/149, 7-14=-300/1017, 8-14=-941/414, 8-12=-84/594, 9-12=-336/281 |

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 17-0-0, Exterior(2R) 17-0-0 to 22-7-14, Interior(1) 22-7-14 to 25-5-0, Exterior(2R) 25-5-0 to 31-0-14, Interior(1) 31-0-14 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 5x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=618, 11=618.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1,2021

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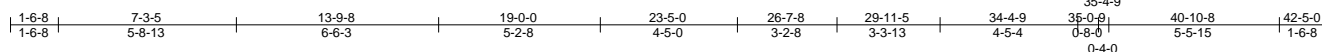
6904 Parke East Blvd.
Tampa, FL 36610

| | | | | | | |
|-------------------|-------|------------|-----|-----|--|-----------|
| Job | Truss | Truss Type | Qty | Ply | | T22666898 |
| 2221_L_160_C_2020 | A07 | Hip | 1 | 1 | | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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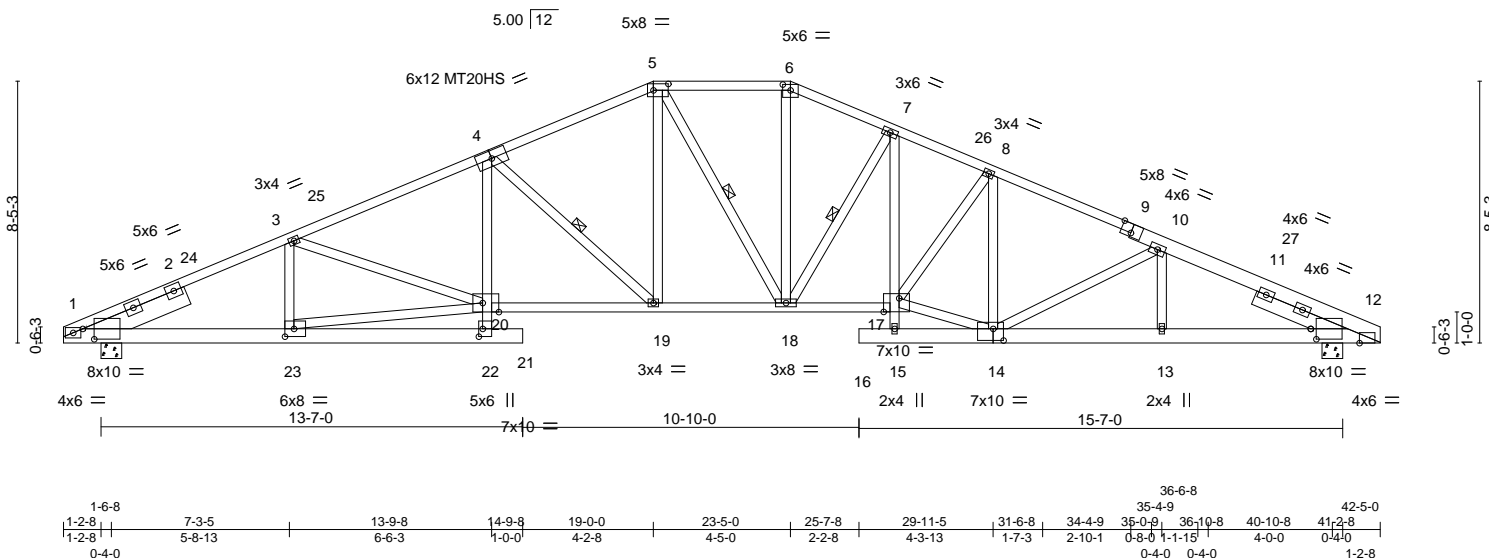


Plate Offsets (X, Y)-- [1:0-4-7,0-4-0], [5:0-5-12,0-2-8], [6:0-3-0,0-2-4], [9:0-4-0,Edge], [12:0-2-2,0-4-0], [12:1-6-14,Edge], [14:0-4-0,0-4-8], [17:0-6-0,0-5-4], [20:0-6-4,Edge], [22:0-3-0,0-1-8], [23:0-3-8,0-3-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.75 | Vert(LL) 0.31 | 21 | >999 | 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL 1.25 | BC 0.82 | Vert(CT) -0.61 | 19-20 | >815 | 180 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.81 | Horz(CT) 0.25 | 12 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 311 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP No.1, 9-12: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
4-22: 2x4 SP No.3, 17-20: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
20-23,14-17: 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x6 SP No.2 -t 3-1-15

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-7 oc bracing. Except:
10-0-0 oc bracing: 20-22
WEBS 1 Row at midpt 4-19, 5-18, 7-18

REACTIONS.

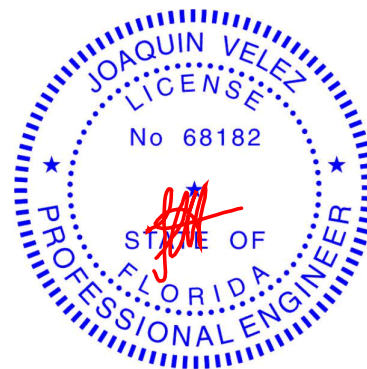
(size) 1=0-8-0, 12=0-8-0
Max Horz 1=-302(LC 10)
Max Uplift 1=-604(LC 12), 12=-605(LC 12)
Max Grav 1=2112(LC 1), 12=2109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-4363/1491, 3-4=-4380/1567, 4-5=-3420/1333, 5-6=-3083/1287, 6-7=-3367/1345,
7-8=-4077/1533, 8-10=-3823/1405, 10-12=-4456/1525
BOT CHORD 1-23=-1249/3904, 22-23=-139/425, 4-20=-130/695, 19-20=-1195/3965, 18-19=-821/3088,
17-18=-1074/3726, 13-14=-1288/3993, 12-13=-1288/3993
WEBS 3-23=-452/274, 20-23=-1122/3519, 4-19=-1282/515, 6-18=-319/960, 8-14=-782/269,
7-17=-336/1113, 5-19=-287/982, 10-14=-689/305, 8-17=-43/501, 14-17=-1089/3604,
7-18=-1283/508

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 19-0-0, Exterior(2E) 19-0-0 to 23-5-0, Exterior(2R) 23-5-0 to 29-0-14, Interior(1) 29-0-14 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=604, 12=605.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

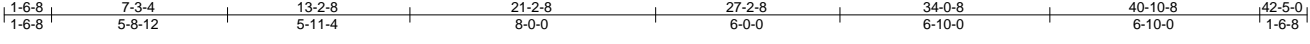
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



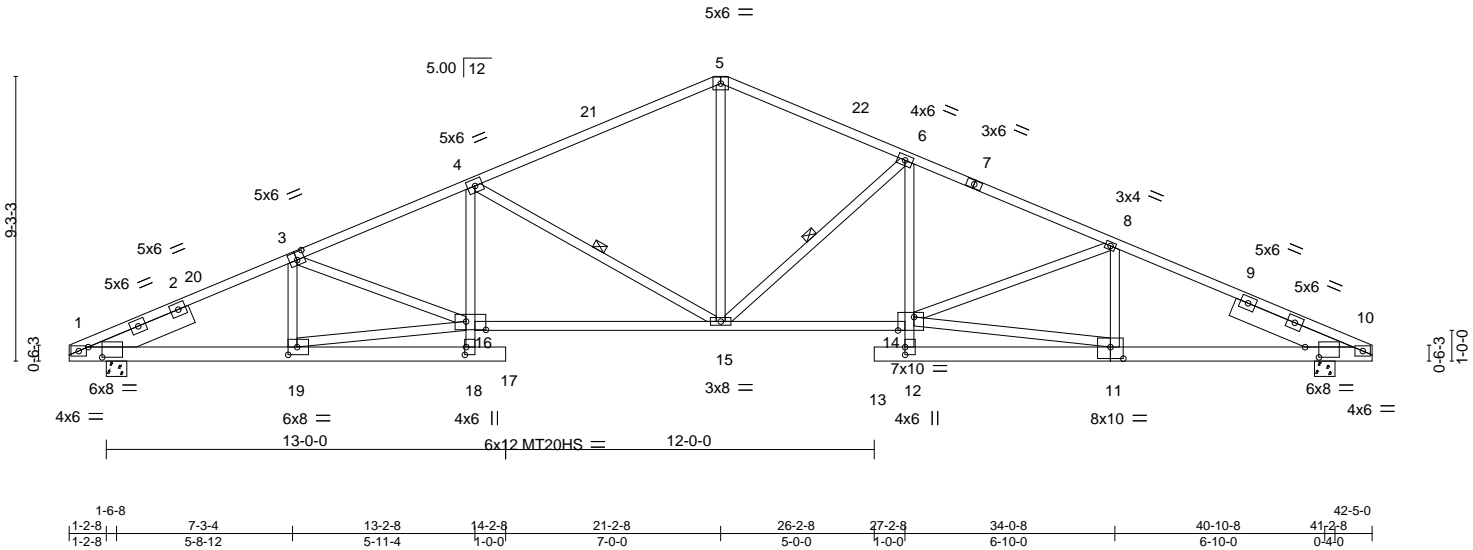
6904 Parke East Blvd.
Tampa, FL 33610

| | | | | | |
|-------------------|-------|--------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | A08 | ROOF SPECIAL | 1 | 1 | T22666899 |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:11 2021 Page 1
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Scale = 1:75.0



| | |
|------------------------|--|
| Plate Offsets (X, Y)-- | [1:0-5-7,0-4-0], [3:0-3-0,0-3-0], [10:0-5-7,0-4-0], [11:0-5-0,0-4-8], [12:0-3-0,0-0-0], [14:0-6-4,Edge], [16:0-7-12,0-3-4], [18:0-3-0,0-0-8], [19:0-3-8,0-3-0] |
|------------------------|--|

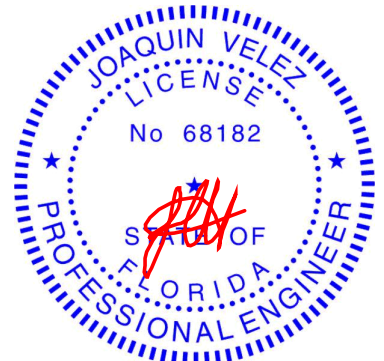
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.98 | Vert(LL) | 0.33 13 | >999 | 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.95 | Vert(CT) | -0.69 15-16 | >721 | 180 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.88 | Horz(CT) | 0.27 10 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 283 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x4 SP No.2 *Except* 3-5: 2x4 SP M 31 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.2 *Except* 4-18,6-12: 2x4 SP No.3, 14-16: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing. Except: 10-0-0 oc bracing: 16-18, 12-14 |
| WEBS 2x4 SP No.3 *Except* 16-19,11-14: 2x4 SP No.2 | WEBS 1 Row at midpt 4-15, 6-15 |
| SLIDER Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x8 SP 2400F 2.0E -t 4-1-8 | |

| REACTIONS. | (size) |
|--|--------|
| 1=0-8-0, 10=0-8-0 | |
| Max Horz 1=337(LC 11) | |
| Max Uplift 1=604(LC 12), 10=605(LC 12) | |
| Max Grav 1=2112(LC 1), 10=2109(LC 1) | |

| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|-----------|---|
| TOP CHORD | 1-3=-4344/1470, 3-4=-4501/1571, 4-5=-3160/1214, 5-6=-3122/1232, 6-8=-4241/1504, 8-10=-4319/1469 |
| BOT CHORD | 1-19=-1207/3890, 18-19=-178/399, 4-16=-111/737, 15-16=-1239/4144, 14-15=-1092/3841, 6-14=-187/835, 11-12=-102/317, 10-11=-1203/3851 |
| WEBS | 3-19=-505/267, 16-19=-1053/3550, 3-16=0/264, 4-15=-1656/651, 5-15=-570/1800, 6-15=-1463/583, 11-14=-1113/3562, 8-11=-472/284 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=604, 10=605.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date: February 1,2021

| | | | | | |
|-------------------|-------|--------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | A10 | Roof Special | 6 | 1 | T22666900 |

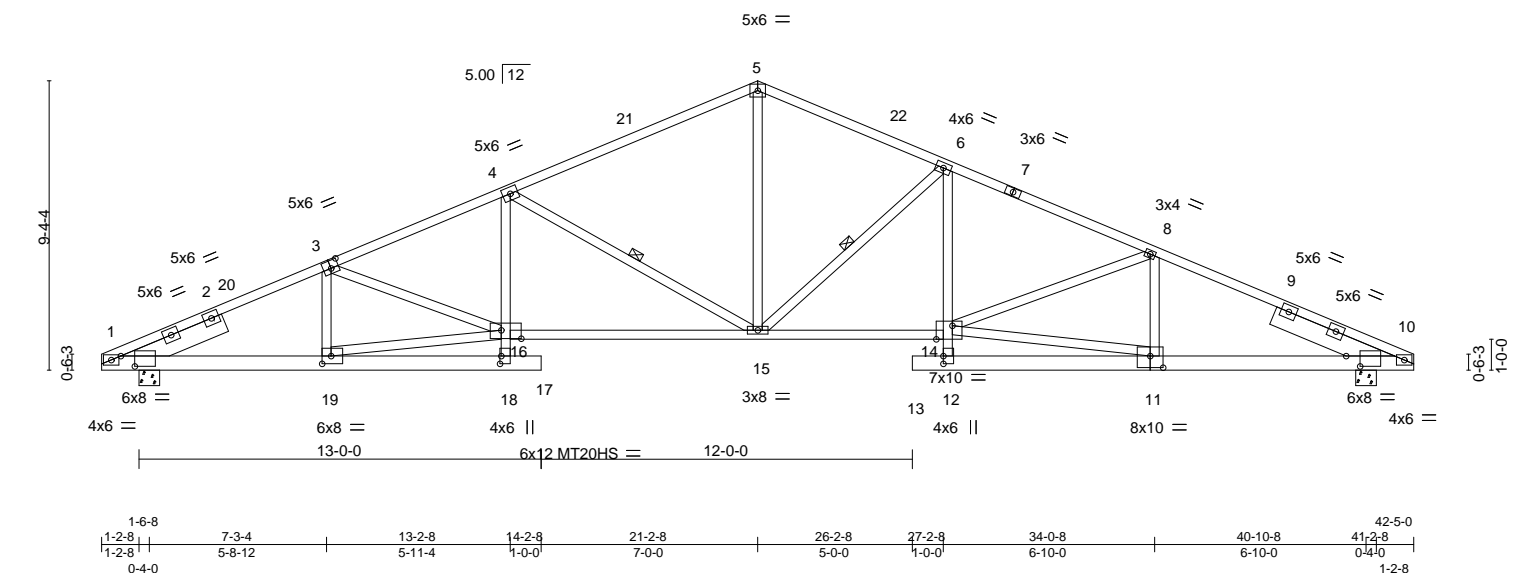
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:13 2021 Page 1

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| | | | | | | | |
|-------|--------|--------|--------|--------|--------|---------|--------|
| 1-6-8 | 7-3-4 | 13-2-8 | 21-2-8 | 27-2-8 | 34-0-8 | 40-10-8 | 42-5-0 |
| 1-6-8 | 5-8-12 | 5-11-4 | 8-0-0 | 6-0-0 | 6-10-0 | 6-10-0 | 1-6-8 |

Scale = 1:74.5



| | | | | | | | | | | | | |
|--|-------|-----------------------|------|-------------|------|----------------------------------|-------|-------|------|---------------------------|----------------|----------|
| Plate Offsets (X,Y)-- [1:0-5-7,0-4-0], [3:0-3-0,0-3-0], [10:0-5-7,0-4-0], [11:0-5-0,0-4-8], [12:0-3-0,0-0-0], [14:0-6-4,Edge], [16:0-7-12,0-3-4], [18:0-3-0,0-0-8], [19:0-3-8,0-3-0] | | | | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | | | PLATES GRIP | | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.98 | Vert(LL) | 0.33 | 13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.95 | Vert(CT) | -0.69 | 15-16 | >721 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.88 | Horz(CT) | 0.27 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 283 lb | FT = 20% |

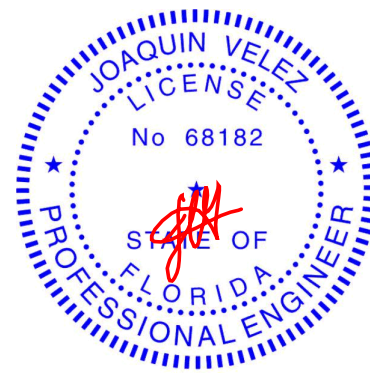
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP M 31
BOT CHORD 2x6 SP No.2 *Except*
4-18,6-12: 2x4 SP No.3, 14-16: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
16-19,11-14: 2x4 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-6-5, Right 2x8 SP 2400F 2.0E -t 4-1-8

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing. Except:
10-0-0 oc bracing: 16-18, 12-14
WEBS 1 Row at midpt 4-15, 6-15

REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=337(LC 11)
Max Uplift 1=604(LC 12), 10=605(LC 12)
Max Grav 1=2112(LC 1), 10=2109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-4344/1470, 3-4=-4501/1571, 4-5=-3160/1214, 5-6=-3122/1232, 6-8=-4241/1504,
8-10=-4319/1469
BOT CHORD 1-19=-1207/3890, 18-19=-178/399, 4-16=-111/737, 15-16=-1239/4144, 14-15=-1092/3841,
6-14=-187/835, 11-12=-102/317, 10-11=-1203/3851
WEBS 3-19=-505/267, 16-19=-1053/3550, 3-16=0/264, 4-15=-1656/651, 5-15=-570/1800,
6-15=-1463/583, 11-14=-1113/3562, 8-11=-472/284

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=604, 10=605.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

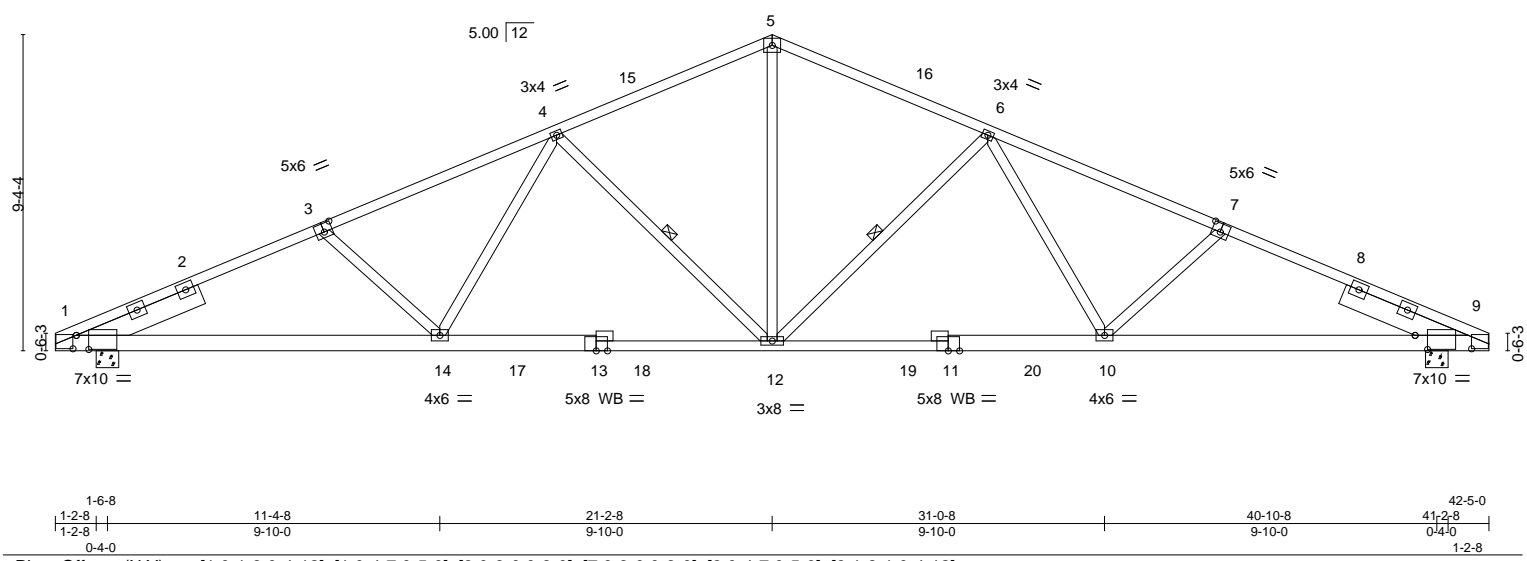
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666901 |
| 2221_L_160_C_2020 | A11 | COMMON | 8 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:14 2021 Page 1
 ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-?sB3l9gmb4YJ7WxalFVAoW042D5St?p62cjvojpzrr7
 1-6-8 7-11-7 14-9-15 21-2-8 27-7-1 34-5-9 40-10-8 42-5-0
 1-6-8 6-4-15 6-10-8 6-4-9 6-4-9 6-10-8 6-4-15 1-6-8
 Scale = 1:68.2



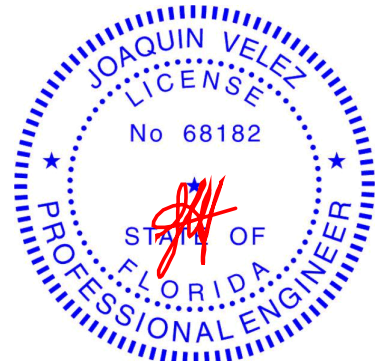
| | | | |
|-----------------------|----------------------|--|-------------------------------|
| Plate Offsets (X,Y)-- | | [1:0-1-3,0-4-12], [1:0-4-7,0-5-0], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [9:0-4-7,0-5-0], [9:1-8-1,0-4-12] | |
| LOADING (psf) | SPACING | CSI | DEFL. |
| TCLL 20.0 | 2-0-0 | TC 0.80 | in (loc) l/defl L/d |
| TCDL 20.0 | Plate Grip DOL 1.25 | BC 0.94 | Vert(LL) -0.29 12-14 >999 240 |
| BCLL 0.0 * | Lumber DOL 1.25 | WB 0.89 | Vert(CT) -0.59 12-14 >844 180 |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.17 9 n/a n/a |
| | Code FBC2020/TPI2014 | | |
| | | PLATES | GRIP |
| | | MT20 | 244/190 |
| | | Weight: 258 lb | FT = 20% |

| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 *Except* 1-3,7-9: 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. |
| BOT CHORD 2x6 SP No.2 *Except* 11-13: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 6-12, 4-12 |
| OTHERS 2x4 SP No.3 | |
| SLIDER Left 2x8 SP 2400F 2.0E -t 3-10-12, Right 2x8 SP 2400F 2.0E -t 3-10-12 | |

| | |
|-------------------|---|
| REACTIONS. | (size) 1=0-8-0, 9=0-8-0 Max Horz 1=-337(LC 10) Max Uplift 1=-618(LC 12), 9=-618(LC 12) Max Grav 1=2368(LC 17), 9=2368(LC 18) |
|-------------------|---|

| |
|--|
| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD 1-3=-4736/1535, 3-4=-4346/1426, 4-5=-3011/1168, 5-6=-3011/1168, 6-7=-4348/1426, 7-9=-4737/1535 |
| BOT CHORD 1-14=-1269/4479, 12-14=-968/3677, 10-12=-952/3450, 9-10=-1270/4228 |
| WEBS 5-12=-568/1844, 6-12=-1258/502, 6-10=-142/923, 7-10=-508/365, 4-12=-1259/502, 4-14=-141/925, 3-14=-508/365 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 5x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=618, 9=618.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

February 1,2021

| | | | | | |
|-------------------|-------|--------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666902 |
| 2221_L_160_C_2020 | A12 | Roof Special | 4 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:15 2021 Page 1

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| | | | | | | | | | |
|-------|--------|--------|--------|---------|--------|---------|--------|---------|--------|
| 1-6-8 | 3-10-8 | 7-3-3 | 13-8-8 | 16-7-4 | 21-2-8 | 28-1-5 | 34-7-6 | 40-10-8 | 42-5-0 |
| 1-6-8 | 2-4-0 | 3-4-11 | 6-5-5 | 2-10-12 | 4-7-4 | 6-10-13 | 6-6-1 | 6-3-2 | 1-6-8 |

Scale = 1:73.7

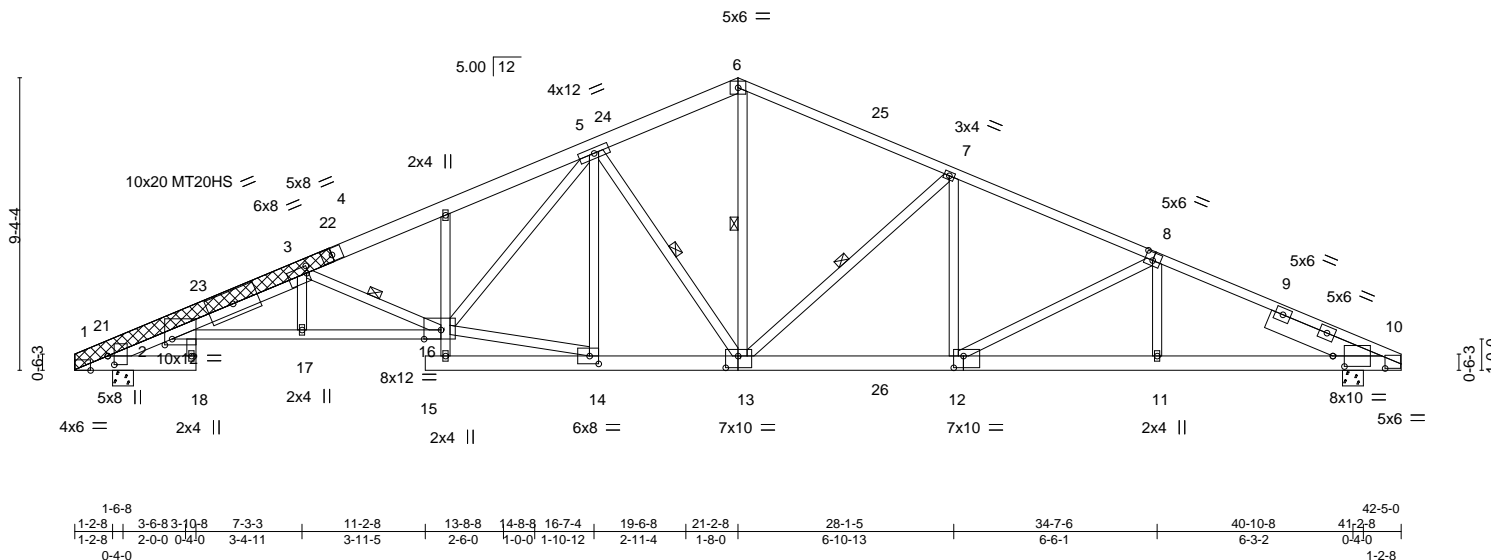


Plate Offsets (X,Y)-- [1:0-3-5,0-2-8], [1:0-6-10,Edge], [2:0-2-13,0-2-4], [3:0-0-12,0-2-12], [8:0-3-0,0-3-0], [10:0-4-7,0-4-0], [10:1-8-1,0-4-12], [12:0-3-12,0-4-8], [13:0-4-12,0-4-8], [14:0-3-8,0-3-0], [16:0-6-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.98 | Vert(LL) -0.50 | 15 | >999 | 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL 1.25 | BC 0.79 | Vert(CT) -1.15 | 15 | >437 | 180 | MT20HS | 187/143 |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.82 | Horz(CT) 0.39 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-S | | | | | Weight: 352 lb | FT = 20% |

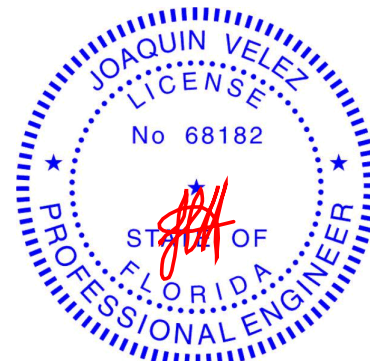
| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x6 SP No.2, 1-4: 2x6 SP M 26, 1-3: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.2 *Except* 2-16: 2x4 SP M 31, 6-13: 2x4 SP No.3, 13-15: 2x6 SP M 26 | BOT CHORD Rigid ceiling directly applied or 5-6-14 oc bracing. Except: 7-1-0 oc bracing: 6-13 |
| WEBS 2x4 SP No.3 *Except* 14-16: 2x4 SP No.2 | WEBS 1 Row at midpt 7-13, 3-16, 5-13 |
| OTHERS 2x6 SP M 26 | |
| LBR SCAB 1-4 2x6 SP M 26 both sides | |
| SLIDER Right 2x8 SP 2400F 2.0E -1 3-9-12 | |

REACTIONS. (size) 1=0-8-0, 10=0-8-0
Max Horz 1=335(LC 11)
Max Uplift 1=604(LC 12), 10=616(LC 12)
Max Grav 1=2367(LC 17), 10=2343(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-956/312, 2-3=-6778/2122, 3-5=-5256/1704, 5-6=-2956/1202, 6-7=-2997/1178,
7-8=-3945/1360, 8-10=-4749/1500
BOT CHORD 2-17=-1968/6894, 16-17=-1966/6891, 6-13=-643/1896, 13-14=-877/3532,
12-13=-968/3520, 11-12=-1239/4227, 10-11=-1237/4233
WEBS 7-13=-1314/468, 7-12=-62/670, 8-12=-819/317, 8-11=0/263, 5-14=-364/291,
14-16=-892/3593, 5-16=-628/2182, 3-16=-2205/798, 5-13=-1414/455

NOTES-

- Attached 9-0-0 scab 1 to 4, both face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-3-8 from end at joint 1, nail 3 row(s) at 4" o.c. for 5-4-1.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Solid blocking is required on both sides of the truss at joint(s), 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=604, 10=616.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

| | | | | | |
|-------------------|-------|--------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666903 |
| 2221_L_160_C_2020 | A13 | ROOF SPECIAL | 6 | 1 | |

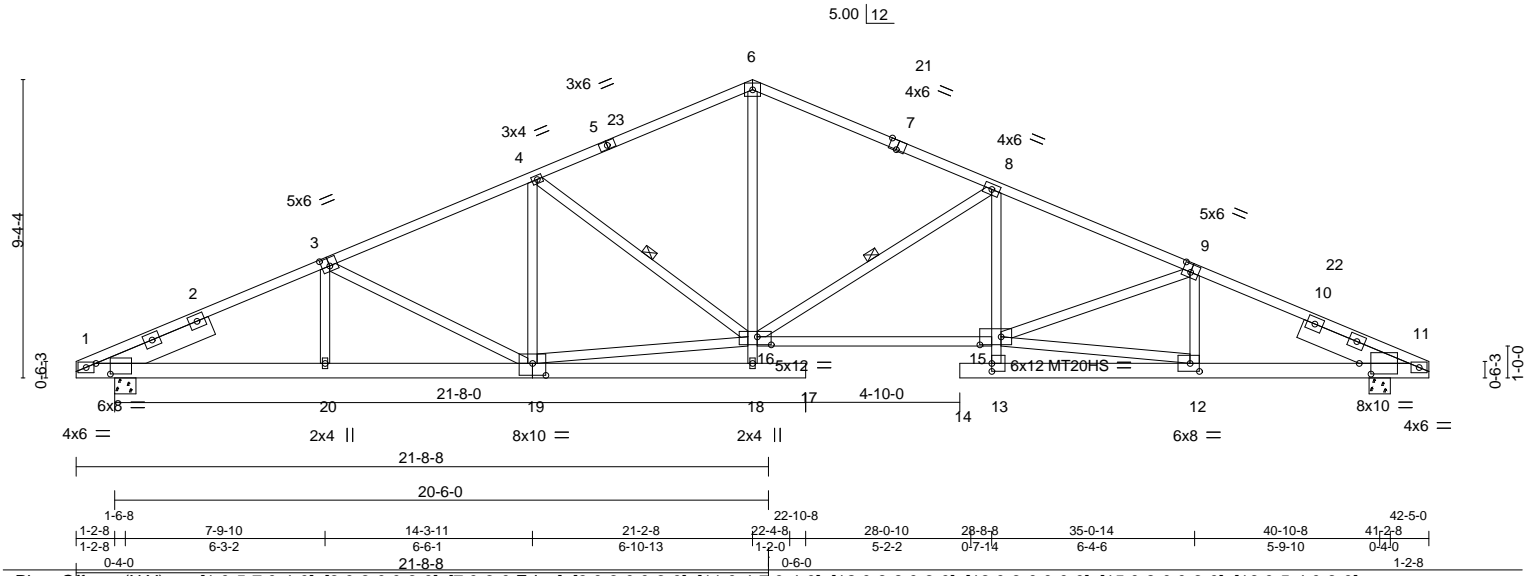
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:17 2021 Page 1

ID:EubcdRdSVpjz3PsjTVS_RMzJaSG-PRtBwBieu?wu_f9zO2tQ9eY6R6L4KDYkaxZP2zpr4

| | | | | | | | |
|-------|--------|---------|---------|--------|---------|---------|--------|
| 1-6-8 | 7-9-10 | 14-3-11 | 21-2-8 | 28-8-8 | 35-0-14 | 40-10-8 | 42-5-0 |
| 1-6-8 | 6-3-2 | 6-6-1 | 6-10-13 | 7-6-0 | 6-4-6 | 5-9-10 | 1-6-8 |

Scale = 1:72.2



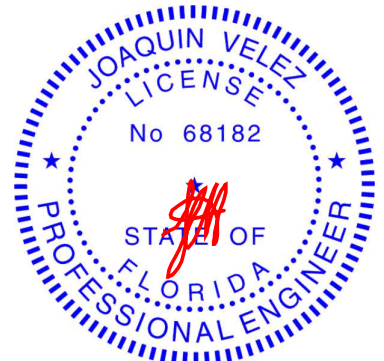
| | | | | | |
|------------------------|----------------------|---|-------------|-------------------------------|-------------------------|
| Plate Offsets (X, Y)-- | | [1:0-5-7,0-4-0], [3:0-3-0,0-3-0], [7:0-3-0,Edge], [9:0-3-0,0-3-0], [11:0-4-7,0-4-0], [12:0-3-8,0-3-0], [13:0-3-0,0-0-0], [15:0-8-0,0-3-0], [16:0-5-4,0-3-0], [19:0-5-0,0-4-8] | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | PLATES GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.94 | in (loc) l/defl L/d | MT20 244/190 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.93 | Vert(LL) 0.30 14 >999 240 | MT20HS 187/143 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.98 | Vert(CT) -0.71 15-16 >702 180 | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-S | Horz(CT) -0.23 1 n/a n/a | |
| | | | | | Weight: 292 lb FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP M 31 *Except* 3-5,9-11,1-3: 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.2 *Except* 8-13: 2x4 SP No.3, 15-16: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 10-0-0 oc bracing: 13-15 |
| WEBS 2x4 SP No.3 *Except* 12-15,16-19: 2x4 SP No.2 | WEBS 1 Row at midpt 8-16, 4-16 |
| SLIDER Left 2x8 SP 2400F 2.0E -t 3-9-12, Right 2x8 SP 2400F 2.0E -t 3-6-13 | |

| | |
|-------------------|--|
| REACTIONS. | (size) 11=0-8-0, 1=0-8-0 Max Horz 11=337(LC 11) Max Uplift 11=600(LC 12), 1=605(LC 12) Max Grav 11=2119(LC 1), 1=2110(LC 1) |
|-------------------|--|

| | |
|----------------|--|
| FORCES. | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 6-8=-3171/1219, 8-9=-4435/1527, 9-11=-4364/1462, 1-3=-4350/1475, 3-4=-3663/1330, 4-6=-3112/1212 |
| BOT CHORD | 12-13=-175/382, 11-12=-1200/3911, 8-15=-105/772, 15-16=-1180/4063, 1-20=-1215/3880, 19-20=-1217/3877 |
| WEBS | 9-12=-466/258, 12-15=-1045/3579, 8-16=-1587/602, 4-16=-791/365, 3-19=-732/325, 3-20=0/261, 16-19=-936/3244, 6-16=-550/1786 |

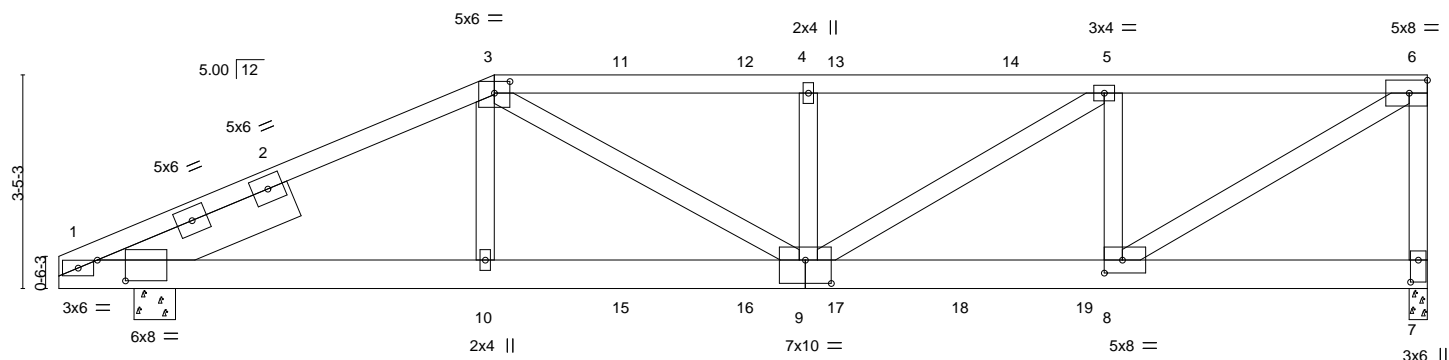
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2R) 21-2-8 to 25-2-8, Interior(1) 25-2-8 to 42-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 5x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=600, 1=605.



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Date:

February 1,2021

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, 8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:17 2021 Page 1
ID:EUbcdRdSVPjz3PjsTVS_RMzJaSG-PRtBwBieu?wu__f9zO2tQ9ebjR814NYYkaxZP2zpr4
1-7-3 7-0-0 12-0-9 16-11-7 22-0-0
1-7-3 5-4-13 5-0-9 4-10-13 5-0-9
Scale = 1:37.0



| | | | | | | | | | | | | | |
|-----------------------|---|--------|--|--------|--|--|--------|--|--|---------|--|--|--------|
| | 1-2-8 | 1-7-3 | | 7-0-0 | | | 12-0-9 | | | 16-11-7 | | | 22-0-0 |
| | 1-2-8 | 0-4-11 | | 5-4-13 | | | 5-0-9 | | | 4-10-13 | | | 5-0-9 |
| Plate Offsets (X,Y)-- | [1:0-5-7-0-4-0-1].[3:0-3-0-0-2-4].[7:0-4-4-0-1-8].[8:0-3-8-0-2-8].[9:0-5-0-0-4-8] | | | | | | | | | | | | |

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.71 | Vert(LL) 0.16 8-9 >999 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL 1.25 | BC 0.82 | Vert(CT) -0.24 8-9 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.83 | Horz(CT) 0.05 7 n/a n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-S | | Weight: 135 lb | FT = 20% |

| LUMBER- | | BRACING- | |
|-----------|--|-----------|--|
| TOP CHORD | 2x4 SP No.2 *Except* 3-6: 2x4 SP M 31 | TOP CHORD | Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. |
| BOT CHORD | 2x6 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 6-2-11 oc bracing. |
| WEBS | 2x4 SP No.3 *Except* 5-9,6-8: 2x4 SP No.2 | | |
| SLIDER | Left 2x8 SP 2400F 2.0E -t 3-3-10 | | |

REACTIONS. (size) 7=0-3-8, 1=0-8-0
 Max Horz 1=164(LC 8)
 Max Uplift 7=859(LC 8), 1=706(LC 8)
 Max Grav 7=1892(LC 1), 1=1721(LC 1)

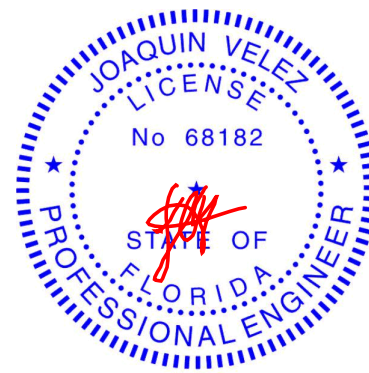
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-3463/1480, 3-4=-3773/1768, 4-5=-3784/1775, 5-6=-2728/1297, 6-7=-1862/895
 BOT CHORD 1-10=-1408/3070, 9-10=-1413/3060, 8-9=-1297/2728
 WEBS 3-10=0/388, 3-9=-461/835, 4-9=-709/451, 5-9=-565/1242, 5-8=-1045/497,
 6-8=-1512/3175

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl.; GCpi=0.18; MWFRS (directional); cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=859, 1=706.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 224 lb down and 419 lb up at 7-0-0, 120 lb down and 176 lb up at 9-0-12, and 120 lb down and 176 lb up at 11-0-12, and 120 lb down and 176 lb up at 12-6-3 on top chord, and 112 lb down and 3 lb up at 7-0-0, 67 lb down and 21 lb up at 9-0-12, 67 lb down and 21 lb up at 11-0-12, 67 lb down and 21 lb up at 12-6-3, and 232 lb down and 175 lb up at 14-6-3, and 429 lb down and 346 lb up at 16-6-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25. Plate Increase=1.25



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Continued on page 2



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6904 Parke East Blvd
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| | | | | | |
|-------------------|-------|-----------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | T22666904 |
| 2221_L_160_C_2020 | B01 | Half Hip Girder | 1 | 1 | Job Reference (optional) |

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-80, 3-6=-80, 1-7=-20

Concentrated Loads (lb)

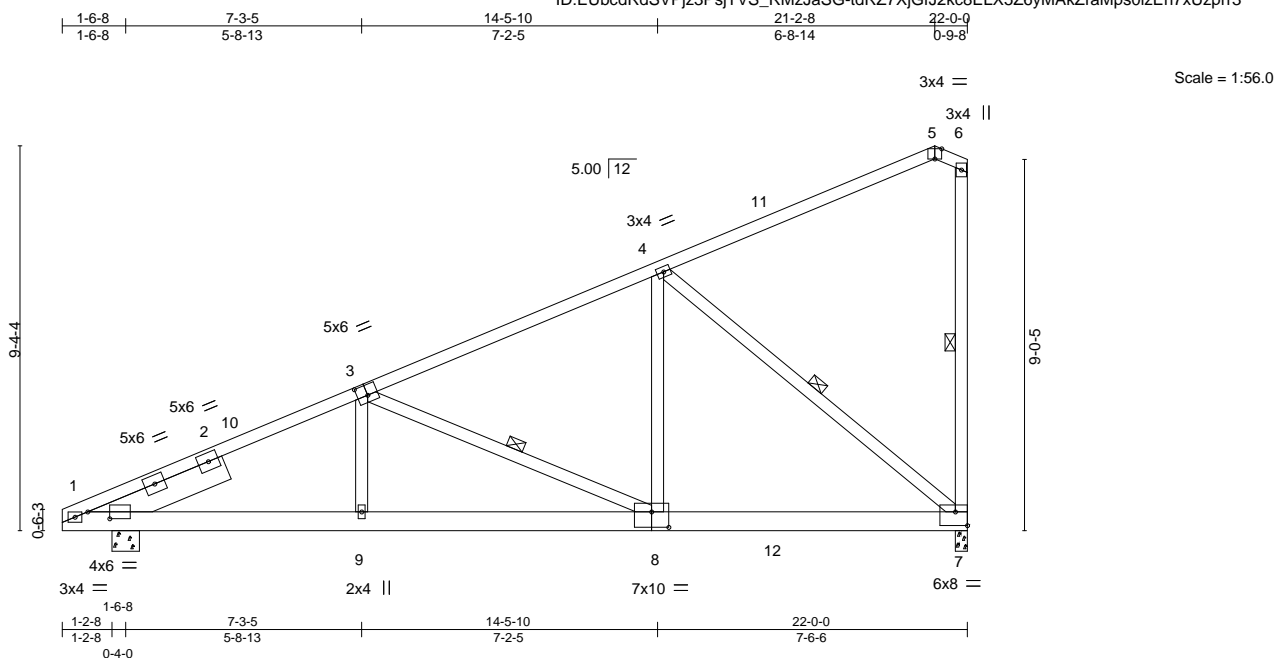
Vert: 10=-60(F) 3=-224(F) 11=-120(F) 12=-120(F) 13=-120(F) 15=-51(F) 16=-51(F) 17=-51(F) 18=-232(F) 19=-429(F)

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666905 |
| 2221_L_160_C_2020 | B02 | Common | 2 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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| | | | | | | | | | | | | |
|---|-------|----------------------|------|----------|------|---------------------------|-------|-----|------|-------------|----------------|----------|
| Plate Offsets (X,Y)-- [1:0-6-7,0-2-0], [3:0-3-0,0-3-0], [5:0-2-0,Edge], [7:Edge,0-4-0], [8:0-5-0,0-4-8] | | | | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | | | PLATES GRIP | | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.83 | Vert(LL) | 0.05 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.43 | Vert(CT) | -0.10 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 148 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x8 SP 2400F 2.0E -t 3-6-5

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-6-10 oc bracing.
 WEBS 1 Row at midpt 3-8, 6-7, 4-7

REACTIONS.

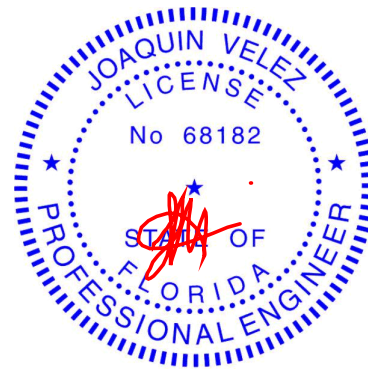
(size) 7=0-3-8, 1=0-8-0
 Max Horz 1=466(LC 12)
 Max Uplift 7=413(LC 12), 1=225(LC 12)
 Max Grav 7=1321(LC 17), 1=1265(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-2251/537, 3-4=-1275/264, 6-7=-250/228
 BOT CHORD 1-9=-934/2092, 8-9=-936/2085, 7-8=-511/1162
 WEBS 3-9=0/285, 3-8=-1012/487, 4-8=-92/732, 4-7=-1485/643

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 21-2-8, Exterior(2E) 21-2-8 to 21-10-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=413, 1=225.



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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



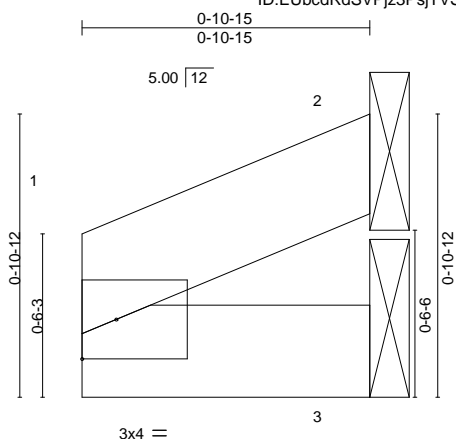
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 Tampa, FL 33610

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666906 |
| 2221_L_160_C_2020 | CJ1 | Jack-Open | 8 | 1 | |
| Job Reference (optional) | | | | | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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Scale = 1:7.3

| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | | GRIP | |
|---------------|-------|----------------------|------|----------|------|----------|-------|-----------------------|--|---------|--|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.04 | Vert(LL) | -0.00 | MT20 | | 244/190 | |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.00 | | | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | |
| | | | | | | | | Weight: 3 lb FT = 20% | | | |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 0-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 2=Mechanical, 3=Mechanical
Max Horz 2=69(LC 1), 3=69(LC 1)
Max Uplift 2=61(LC 12)
Max Grav 2=90(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



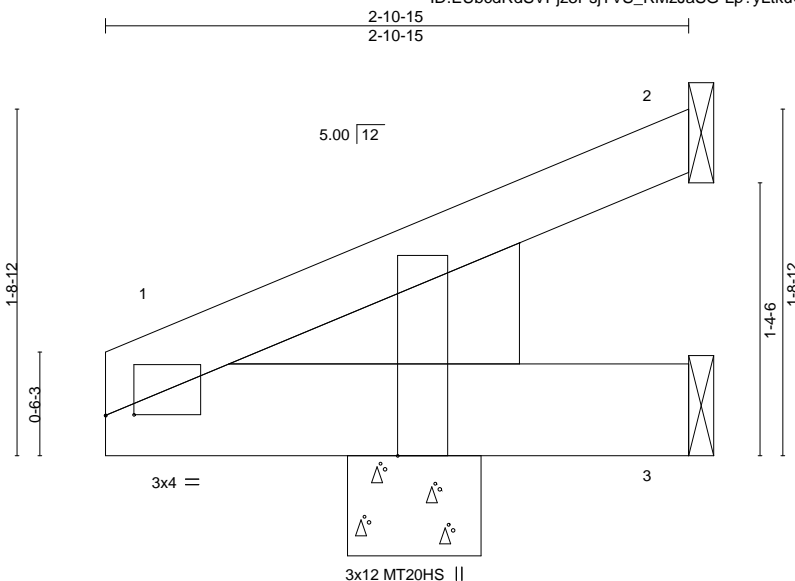
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Tampa, FL 36610

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | CJ3 | Jack-Open | 8 | 1 | T22666907 |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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Scale = 1:11.5

| | | | | | | | |
|-----------------------|-----------------|----------------------------------|-------------|---------------|-------------|--------|-----|
| Plate Offsets (X,Y)-- | | [1:0-1-11,0-0-1], [1:0-2-7,Edge] | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.20 | Vert(LL) | -0.00 1 | >999 | 240 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.03 | Vert(CT) | -0.00 1-3 | >999 | 180 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.00 2 | n/a | n/a |
| BCDL 10.0 | Code | FBC2020/TPI2014 | Matrix-P | | | | |
| | | | | PLATES | GRIP | | |
| | | | | MT20 | 244/190 | | |
| | | | | MT20HS | 187/143 | | |
| | | | | Weight: 16 lb | FT = 20% | | |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

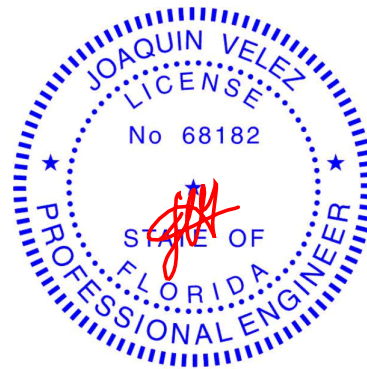
REACTIONS.

(size) 2=Mechanical, 3=Mechanical, 1=0-8-0
Max Horz 1=71(LC 12)
Max Uplift 2=71(LC 12), 1=19(LC 12)
Max Grav 2=111(LC 17), 3=50(LC 3), 1=126(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 1.



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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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| | | | | | |
|-------------------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | T22666908 |
| 2221_L_160_C_2020 | CJ3A | Jack-Open | 1 | 1 | Job Reference (optional) |

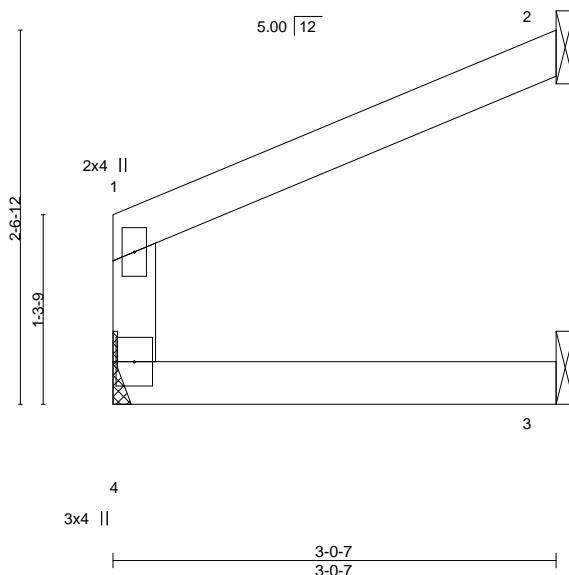
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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3-0-7
3-0-7

Scale = 1:15.8



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.36 | Vert(LL) | 0.01 3-4 | >999 | 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.22 | Vert(CT) | -0.01 3-4 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.03 2 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | | | | | |
| | | | | | | | | Weight: 11 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

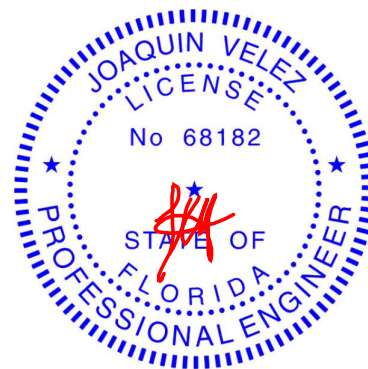
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 4=63(LC 12)
Max Uplift 4=5(LC 12), 2=-76(LC 12), 3=-2(LC 12)
Max Grav 4=141(LC 1), 2=118(LC 17), 3=57(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 3.



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MiTek USA, Inc. FL Cert 6634
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February 1, 2021

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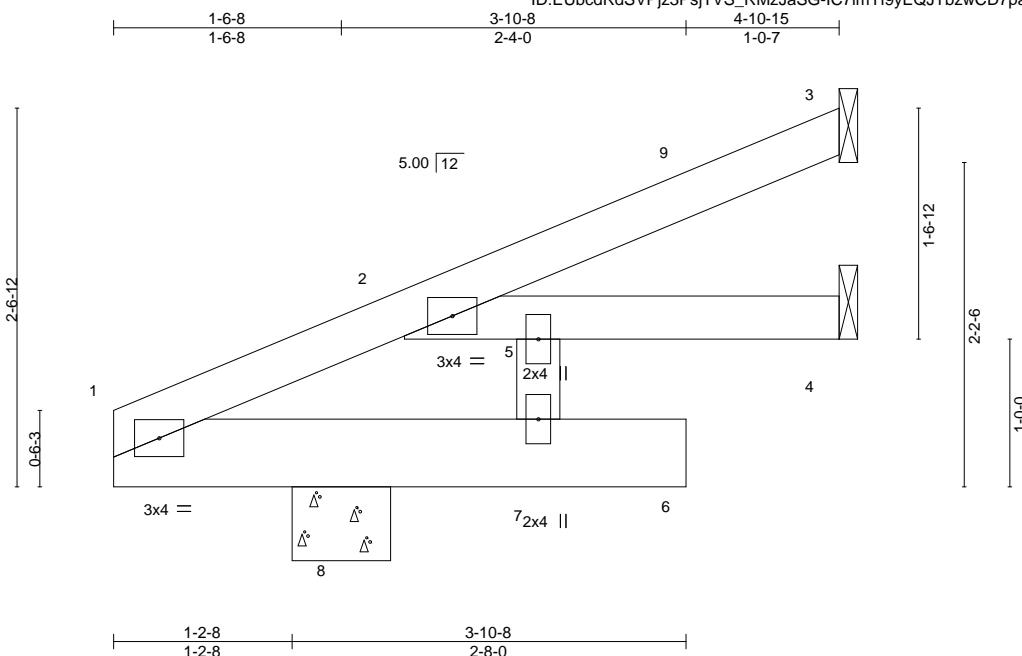
| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666910 |
| 2221_L_160_C_2020 | CJ5A | Jack-Open | 2 | 1 | |

Builders FirstSource (Punta Gorda, FL),

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Scale = 1:15.6

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.31 | Vert(LL) | 0.07 | 6 | >595 | 240 | MT20 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.33 | Vert(CT) | -0.07 | 6 | >589 | 180 | 244/190 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.04 | Horz(CT) | -0.04 | 4 | n/a | n/a | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 22 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 1-6: 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

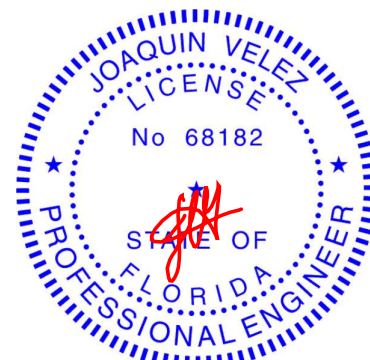
(size) 3=Mechanical, 4=Mechanical, 8=0-8-0
 Max Horz 8=115(LC 12)
 Max Uplift 3=67(LC 12), 8=128(LC 12)
 Max Grav 3=131(LC 17), 4=63(LC 3), 8=378(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 1-8=-107/266

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 4-10-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 8=128.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

February 1, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



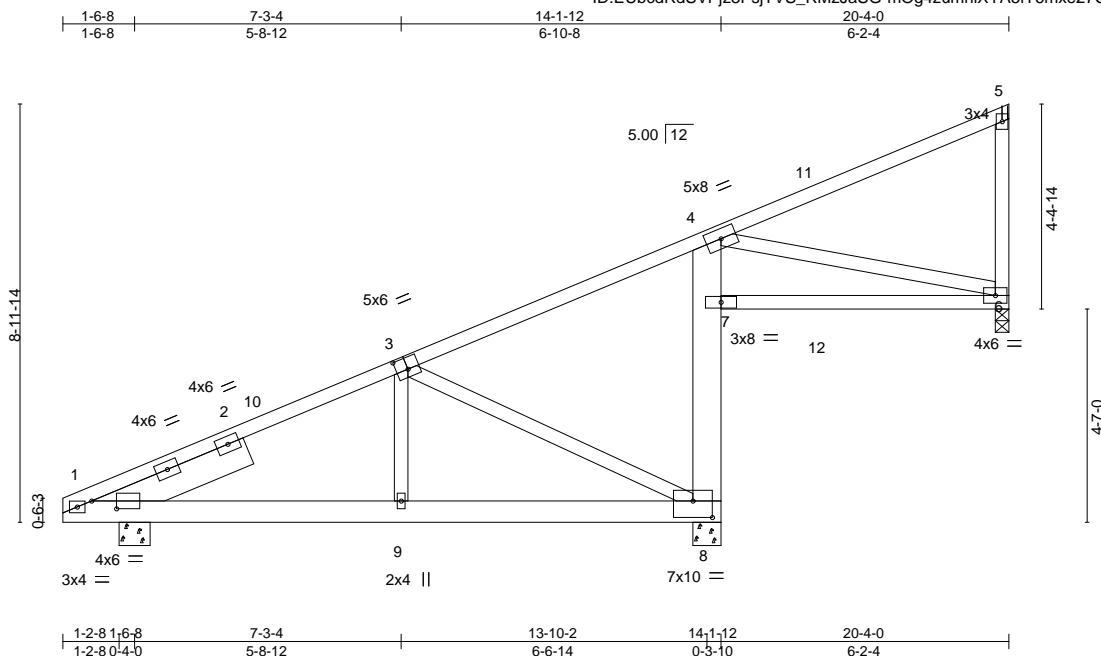
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 Tampa, FL 33610

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666911 |
| 2221_L_160_C_2020 | D1 | Monopitch | 3 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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Scale = 1:49.5

| | | | | | | | | | |
|---|-------|-----------------------|------|-------------|------|----------------------------------|--------------------|----------------|-------------|
| Plate Offsets (X,Y)-- [1:0-6-7,0-2-0], [3:0-3-0,0-3-0], [8:0-5-0,0-4-4] | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.68 | Vert(LL) | 0.13 6-7 >592 240 | MT20 | 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.37 | Vert(CT) | -0.11 6-7 >724 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.01 8 n/a n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | Weight: 132 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 1-8: 2x6 SP No.2, 4-8: 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.3
 SLIDER Left 2x8 SP 2400F 2.0E -t 3-6-5

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS.

(size) 6=0-3-8, 8=0-7-4, 1=0-8-0
 Max Horz 1=458(LC 12)
 Max Uplift 6=217(LC 12), 8=560(LC 12), 1=56(LC 12)
 Max Grav 6=264(LC 1), 8=1071(LC 1), 1=650(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-970/4, 3-4=-318/164
 BOT CHORD 1-9=-456/846, 8-9=-458/841, 7-8=-631/649, 4-7=-606/465
 WEBS 3-9=0/313, 3-8=-934/523

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 20-2-4 zone; cantilever left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=217, 8=560.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

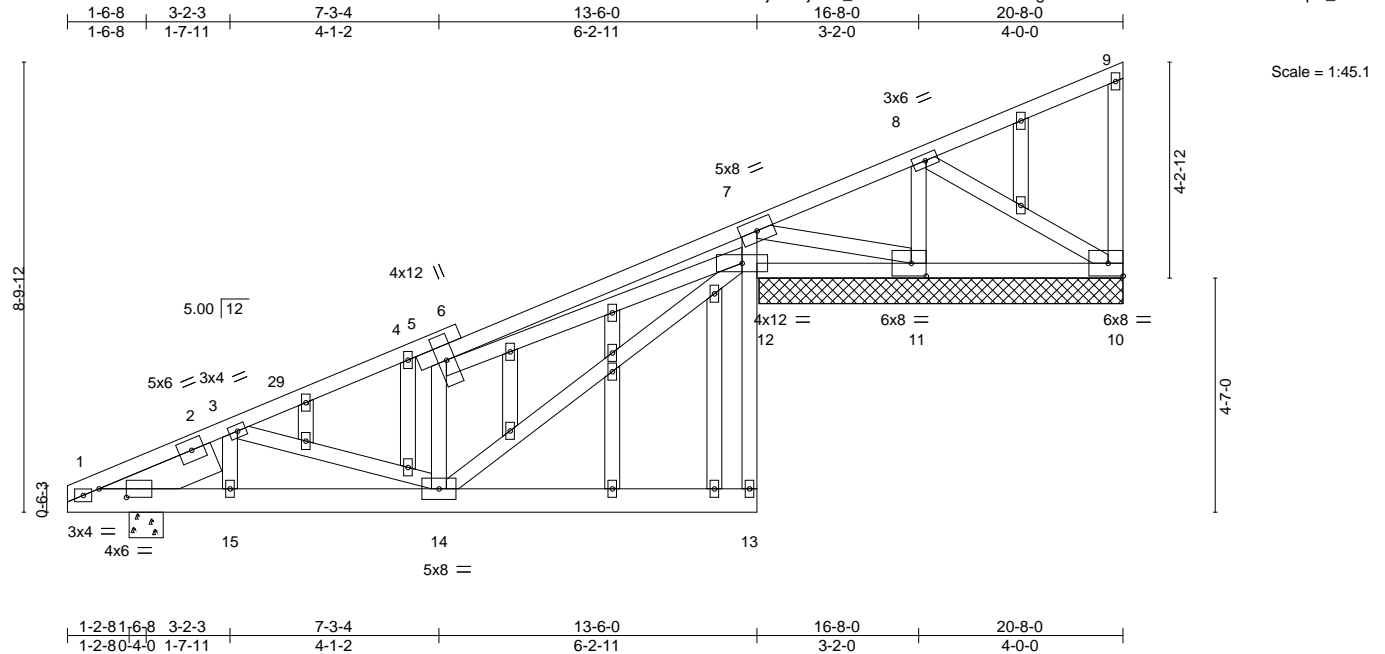


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| | | | | | |
|-------------------|-------|----------------------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666912 |
| 2221_L_160_C_2020 | D2 | Monopitch Structural Gable | 1 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:23 2021 Page 1
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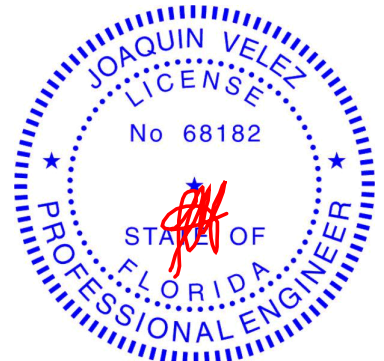
| | | | | | | | | | |
|---|-------|-----------------------|------|-------------|------|----------------------------------|----------------------|----------------|-------------|
| Plate Offsets (X,Y)-- [1:0-6-7,0-2-0], [11:0-3-8,0-3-0] | | | | | | | | | |
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.61 | Vert(LL) | 0.05 14 >999 240 | MT20 | 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.86 | Vert(CT) | -0.09 13-14 >999 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | -0.01 11 n/a n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | Weight: 163 lb | FT = 20% |

| | |
|---|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.3 *Except* | BOT CHORD Rigid ceiling directly applied or 5-2-6 oc bracing. |
| 1-13: 2x6 SP No.2, 10-12: 2x4 SP No.2 P | |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |
| SLIDER Left 2x8 SP 2400F 2.0E -t 2-4-4 | |

| | |
|-------------------|---|
| REACTIONS. | (size) 10=7-1-8, 11=7-1-8, 1=0-8-0 |
| | Max Horz 1=449(LC 12) |
| | Max Uplift 10=-587(LC 17), 11=-743(LC 12), 1=-64(LC 12) |
| | Max Grav 10=209(LC 12), 11=2055(LC 17), 1=640(LC 1) |

| |
|--|
| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD 1-3=-1099/153, 3-5=-846/96, 5-7=-251/0, 7-8=-861/1447 |
| BOT CHORD 1-15=-640/1023, 14-15=-640/1023, 7-12=-227/491, 10-11=-1254/630 |
| WEBS 5-14=-454/358, 12-14=-555/1018, 5-12=-620/191, 7-11=-1088/602, 8-11=-1627/916, 8-10=-733/1460 |

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 20-6-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=587, 11=743.



Joaquin Velez PE No.68182
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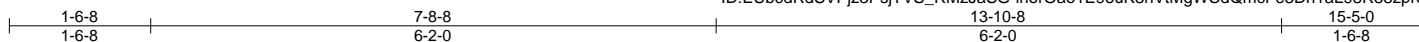
February 1, 2021

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | D3 | Common | 2 | 1 | T22666913 |

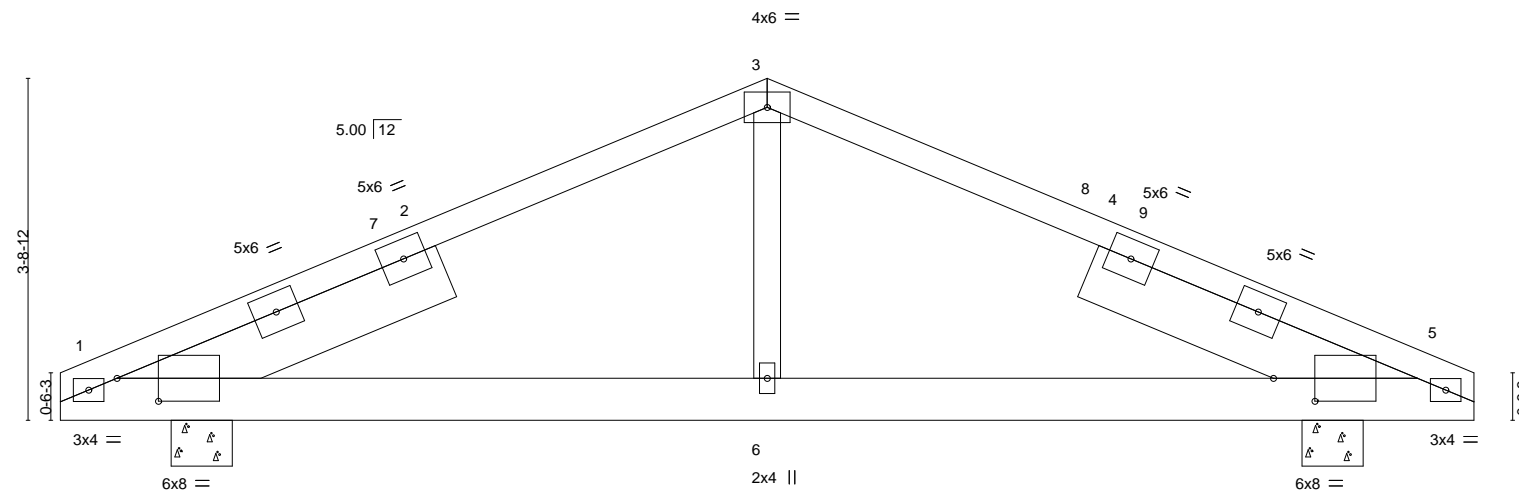
Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:24 2021 Page 1

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Scale = 1:25.1



| | | | | | |
|-------|-------|-------|---------|--------|--------|
| 1-2-8 | 1-6-8 | 7-8-8 | 13-10-8 | 14-2-8 | 15-5-0 |
| 1-2-8 | 0-4-0 | 6-2-0 | 6-2-0 | 0-4-0 | 1-2-8 |

Plate Offsets (X,Y)-- [1:0-5-7,0-3-0], [5:0-5-7,0-3-0]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.86 | Vert(LL) | -0.02 | 1-6 | >999 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.35 | Vert(CT) | -0.05 | 5-6 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.14 | Horz(CT) | 0.01 | 5 | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | Weight: 89 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E -t 3-9-2, Right 2x8 SP 2400F 2.0E -t 3-9-2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

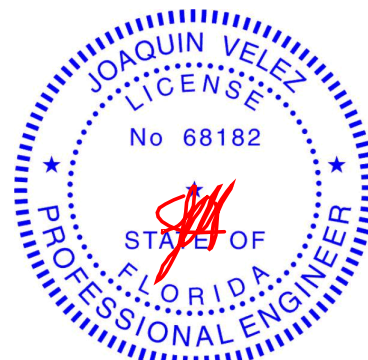
(size) 1=0-8-0, 5=0-8-0
Max Horz 1=125(LC 11)
Max Uplift 1=-218(LC 12), 5=-218(LC 12)
Max Grav 1=737(LC 1), 5=737(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-1146/665, 3-5=-1146/667
BOT CHORD 1-6=-442/927, 5-6=-442/927
WEBS 3-6=0/372

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 7-8-8, Exterior(2R) 7-8-8 to 11-8-8, Interior(1) 11-8-8 to 15-1-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=218, 5=218.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

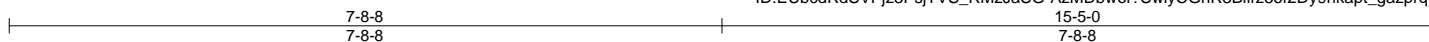


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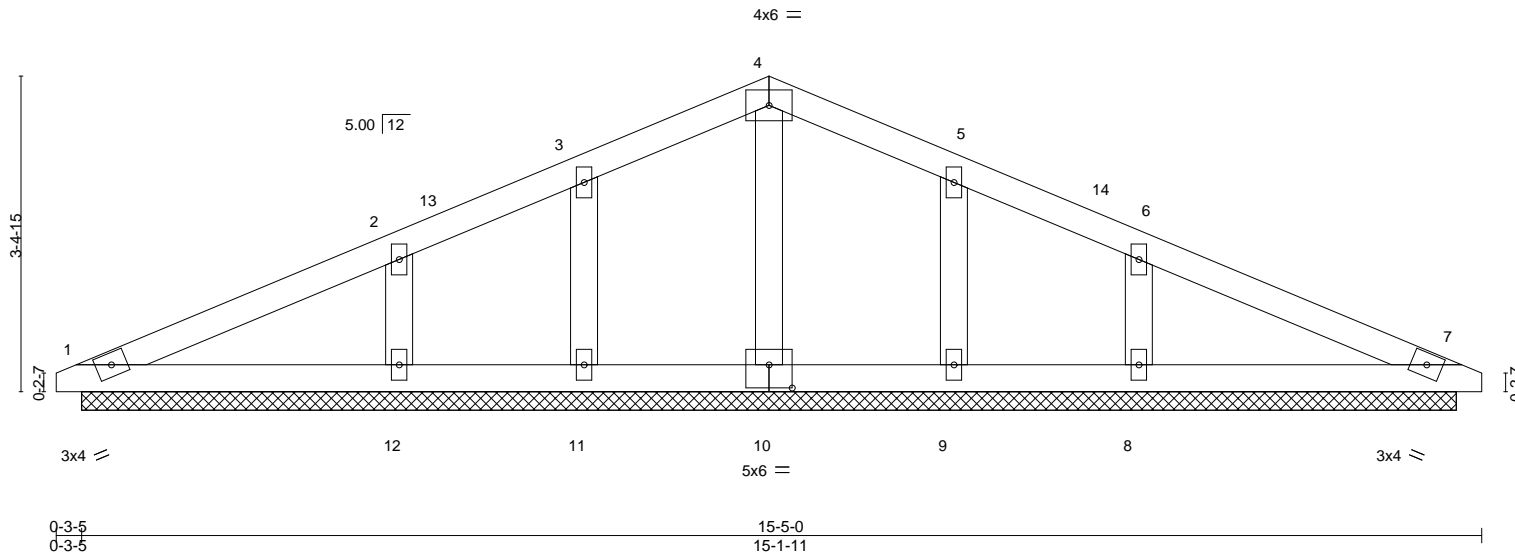
| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666914 |
| 2221_L_160_C_2020 | D4 | GABLE | 1 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:25 2021 Page 1
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Scale = 1:24.9



| Plate Offsets (X,Y)-- [10:0-3-0,0-3-0] | | | | | | | | | |
|--|-------|----------------------|------|----------|------|---------------------------|------------|-------------|------------------------|
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES GRIP | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.19 | Vert(LL) | n/a - n/a | 999 | MT20 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.10 | Vert(CT) | n/a - n/a | 999 | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 7 n/a | n/a | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | Weight: 61 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 P
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

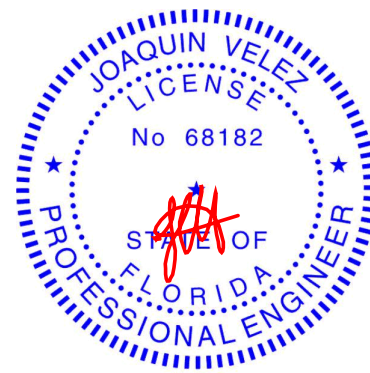
All bearings 14-10-6.
(lb) - Max Horz 1=117(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 9 except 12=137(LC 12), 8=137(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9 except 12=374(LC 17), 8=374(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-12=290/388, 6-8=290/389

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-2-15 to 4-2-15, Exterior(2N) 4-2-15 to 7-8-8, Corner(3R) 7-8-8 to 11-8-8, Exterior(2N) 11-8-8 to 15-2-1 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Truss Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 9 except (jt=lb) 12=137, 8=137.
- N/A



Joaquin Velez PE No.68182
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

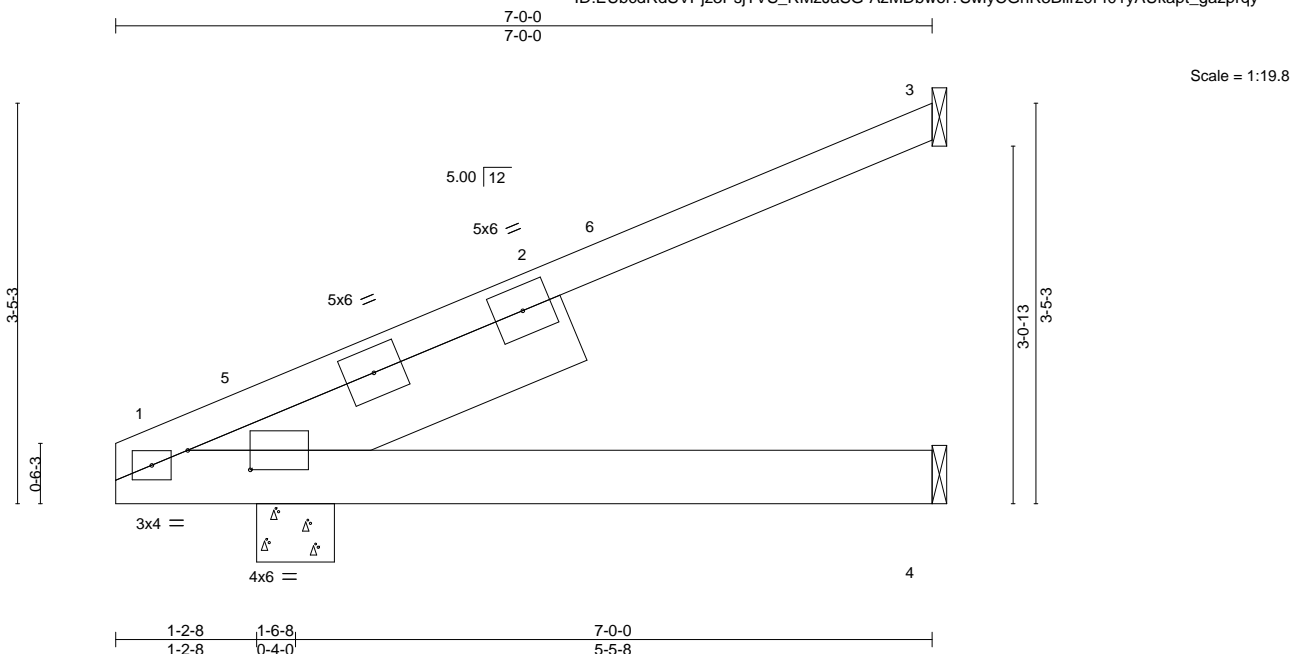


6904 Parke East Blvd.
Tampa, FL 36610

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | EJ7 | Jack-Open | 14 | 1 | T22666915 |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:25 2021 Page 1
ID:EUbcdRdSVPjz3PsjTVS_RMzJaSG-AzMDbwof?SwlyCGhR3Bllrz0Ff01yAUkapt_gazprqy



| Plate Offsets (X,Y)-- | | [1:0-6-7,0-2-0] | | | | | | | | | |
|-----------------------|-------|----------------------|------|-------------|------|--------------|-----------|------|-----|------------------------|---------|
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.55 | in (loc) | l/defl | L/d | | MT20 | GRIP |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(LL) | -0.03 1-4 | >999 | 240 | | 244/190 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Vert(CT) | -0.06 1-4 | >999 | 180 | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | Horz(CT) | -0.02 3 | n/a | n/a | | |
| | | | | | | | | | | Weight: 38 lb FT = 20% | |

LUMBER-

TOP CHORD 2x4 SP M 31
BOT CHORD 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-5-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 1=0-8-0
Max Horz 1=162(LC 12)
Max Uplift 3=174(LC 12), 1=61(LC 12)
Max Grav 3=287(LC 17), 4=132(LC 3), 1=334(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-0 to 4-4-0, Interior(1) 4-4-0 to 6-11-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=174.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1, 2021

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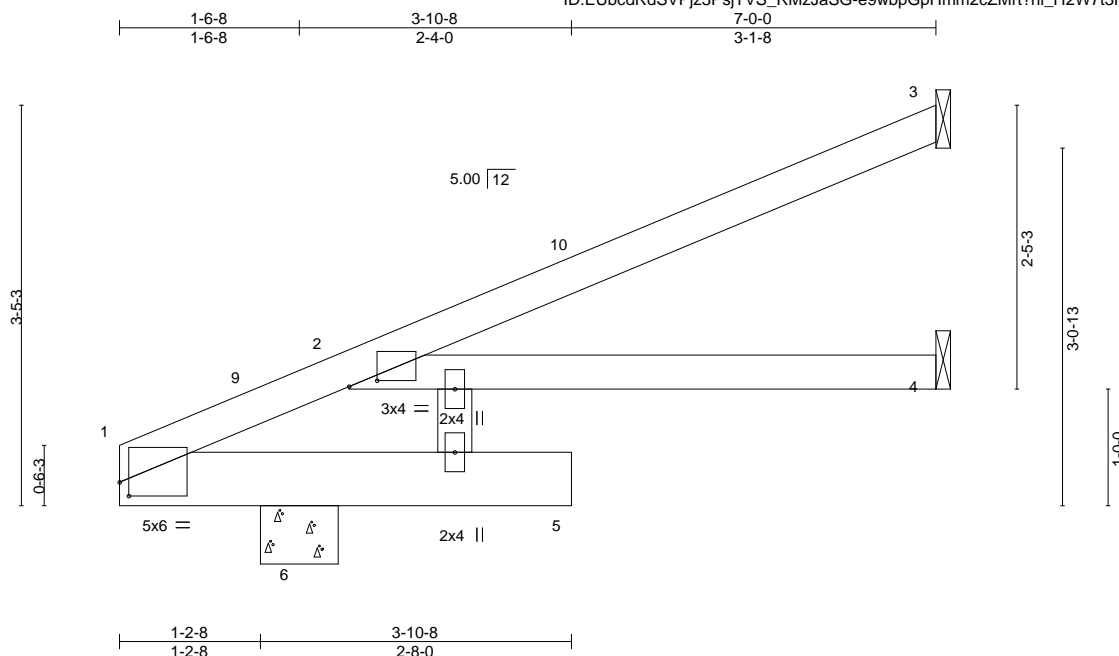
| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666916 |
| 2221_L_160_C_2020 | EJ7A | Jack-Open | 4 | 1 | |

Builders FirstSource (Punta Gorda, FL),

Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:26 2021 Page 1

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Scale = 1:19.8

| Plate Offsets (X,Y)-- | | [1:0-0-15,0-1-7], [2:0-2-14,0-0-10] | | | | | | | | | |
|-----------------------|----------------------|-------------------------------------|----------|----------|-------|-------|--------|-----|---------------|----------|--|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | I/defl | L/d | PLATES | GRIP | |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.81 | Vert(LL) | 0.16 | 2-4 | >412 | 240 | MT20 | 244/190 | |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.52 | Vert(CT) | 0.22 | 5 | >301 | 180 | | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.06 | 3 | n/a | n/a | | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | | |
| | | | | | | | | | Weight: 29 lb | FT = 20% | |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
2-4: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 6=0-8-0
Max Horz 6=162(LC 12)
Max Uplift 3=112(LC 12), 6=138(LC 12)
Max Grav 3=206(LC 17), 4=108(LC 3), 6=474(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 1-6=136/327

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 6-11-4 zone; cantilever left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=112, 6=138.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



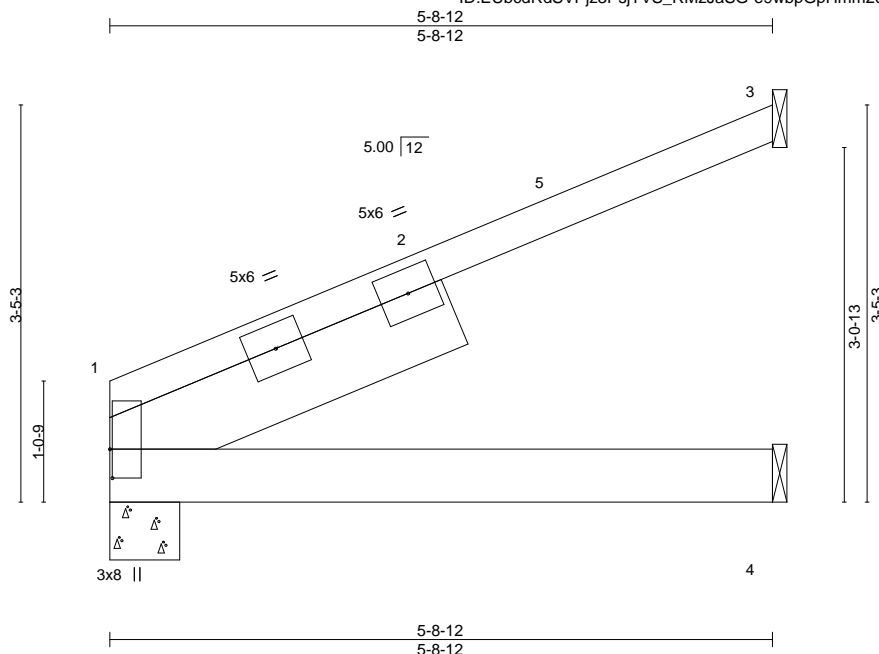
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| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666917 |
| 2221_L_160_C_2020 | EJ7B | Jack-Open | 4 | 1 | |
| Job Reference (optional) | | | | | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:26 2021 Page 1

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Scale = 1:19.9

| | | | | | | | | | |
|-----------------------|----------------------|-------|-------------|--------------|-----------|--------|-----|---------------|-------------|
| Plate Offsets (X,Y)-- | [1:0-3-0,0-0-4] | | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.92 | Vert(LL) | -0.02 1-4 | >999 | 240 | MT20 | 244/190 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.17 | Vert(CT) | -0.03 1-4 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.04 3 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | Weight: 33 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2
SLIDER Left 2x8 SP 2400F 2.0E -t 3-2-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

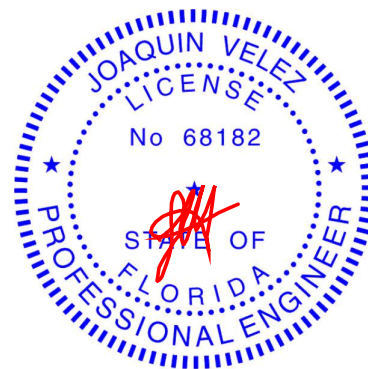
REACTIONS.

(size) 1=0-7-4, 3=Mechanical, 4=Mechanical
Max Horz 1=162(LC 12)
Max Uplift 1=-41(LC 12), 3=-161(LC 12)
Max Grav 1=284(LC 17), 3=250(LC 17), 4=113(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-0-0, Interior(1) 4-0-0 to 5-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=161.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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February 1, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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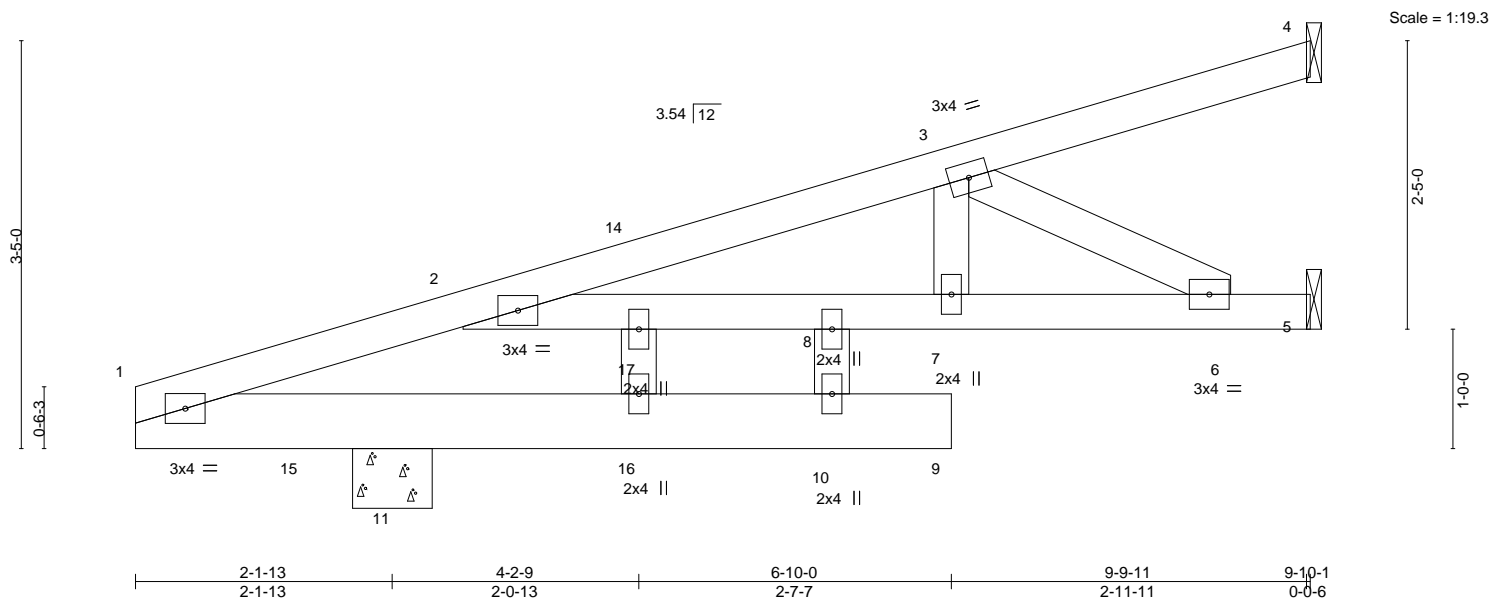
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Tampa, FL 36610

| | | | | | |
|--|-------|---------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | T22666919 |
| 2221_L_160_C_2020 | HJ10A | Diagonal Hip Girder | 1 | 1 | |
| Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950, | | | | | Job Reference (optional) |

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| | | | | |
|--------|--------|--------|---------|--------|
| 2-1-13 | 3-6-9 | 6-10-0 | 9-9-11 | 9-10-1 |
| 2-1-13 | 1-4-13 | 3-3-6 | 2-11-11 | 0-0-6 |



| | | | | | | | | | | | |
|---------------|-------|----------------------|------|----------|------|----------|-------|---------------|---------|----------|--|
| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | PLATES | | GRIP | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.56 | Vert(LL) | 0.13 | MT20 | 244/190 | | |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.46 | Vert(CT) | -0.15 | | | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.09 | Horz(CT) | -0.04 | | | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | |
| | | | | | | | | Weight: 49 lb | | FT = 20% | |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-9: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
10-0-0 oc bracing: 7-8

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 11=0-8-0
Max Horz 11=162(LC 8)
Max Uplift 4=-47(LC 8), 5=-51(LC 8), 11=-277(LC 8)
Max Grav 4=96(LC 13), 5=196(LC 3), 11=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

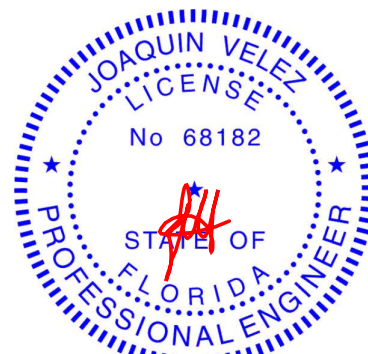
TOP CHORD 2-3=-375/196
BOT CHORD 2-8=-170/359, 7-8=-170/359, 6-7=-170/359
WEBS 3-6=-405/192

NOTES-

- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 11=277.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 38 lb down and 123 lb up at 4-2-8, 38 lb down and 123 lb up at 4-2-8, and 8 lb down and 122 lb up at 7-0-7, and 8 lb down and 122 lb up at 7-0-7 on top chord, and 62 lb down and 93 lb up at 1-4-9, 62 lb down and 93 lb up at 1-4-9, 52 lb up at 4-2-8, 52 lb up at 4-2-8, and 9 lb down and 14 lb up at 6-10-0, and 9 lb down and 14 lb up at 6-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-80, 1-9=-20, 5-8=-20
Concentrated Loads (lb)
Vert: 9=-19(F=-9, B=-9) 3=49(F=24, B=24) 14=216(F=108, B=108) 15=-123(F=-62, B=-62) 16=85(F=43, B=43)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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February 1, 2021

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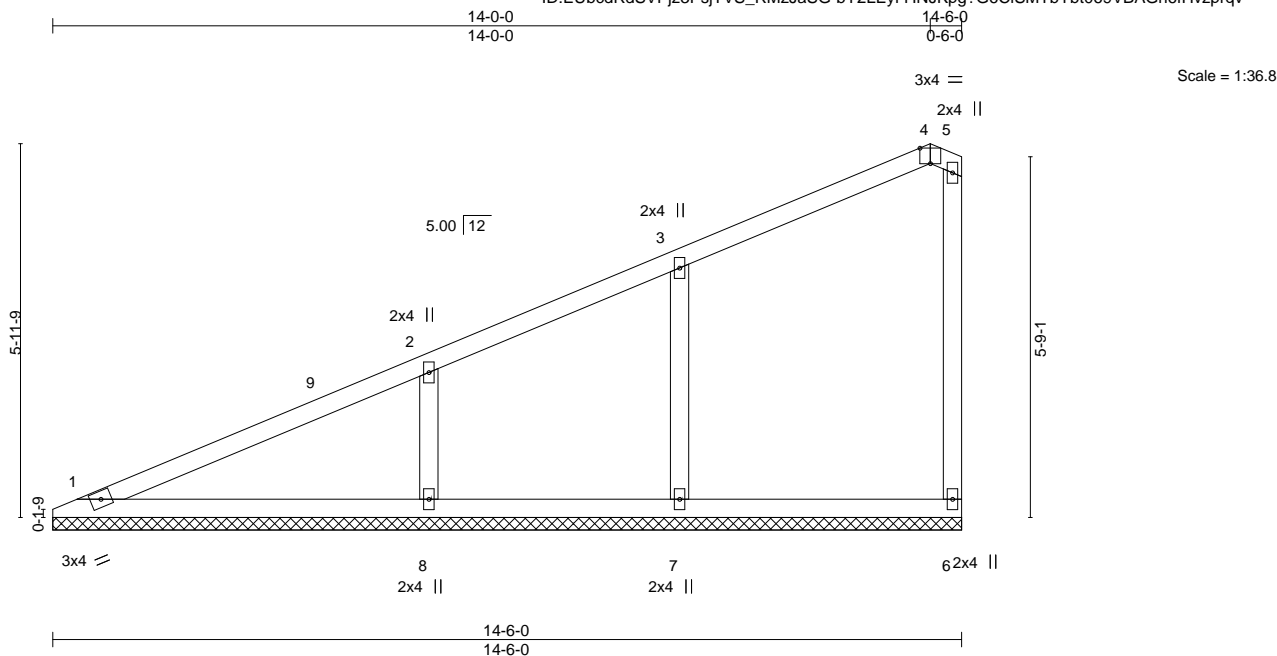
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| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | V1 | Valley | 1 | 1 | T22666920 |
| Job Reference (optional) | | | | | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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| Plate Offsets (X,Y)-- [4:0-2-0,Edge] | | | | | | | | | | | | |
|--------------------------------------|-------|-----------------------|------|-------------|------|----------------------------------|------|---|---------------|-------------|---------------|----------|
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | | PLATES | GRIP | | |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.48 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.28 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 61 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 14-6-0.

(lb) - Max Horz 1=296(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6 except 7=152(LC 12), 8=221(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 1=251(LC 17), 6=260(LC 17), 7=522(LC 17), 8=683(LC 17)

FORCES.

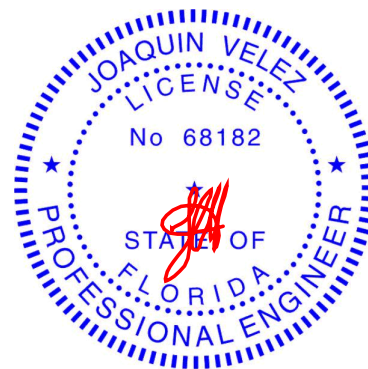
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=409/186

WEBS 3-7=348/388, 2-8=476/443

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-5-0 to 4-5-0, Interior(1) 4-5-0 to 14-0-0, Exterior(2E) 14-0-0 to 14-4-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 7=152, 8=221.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
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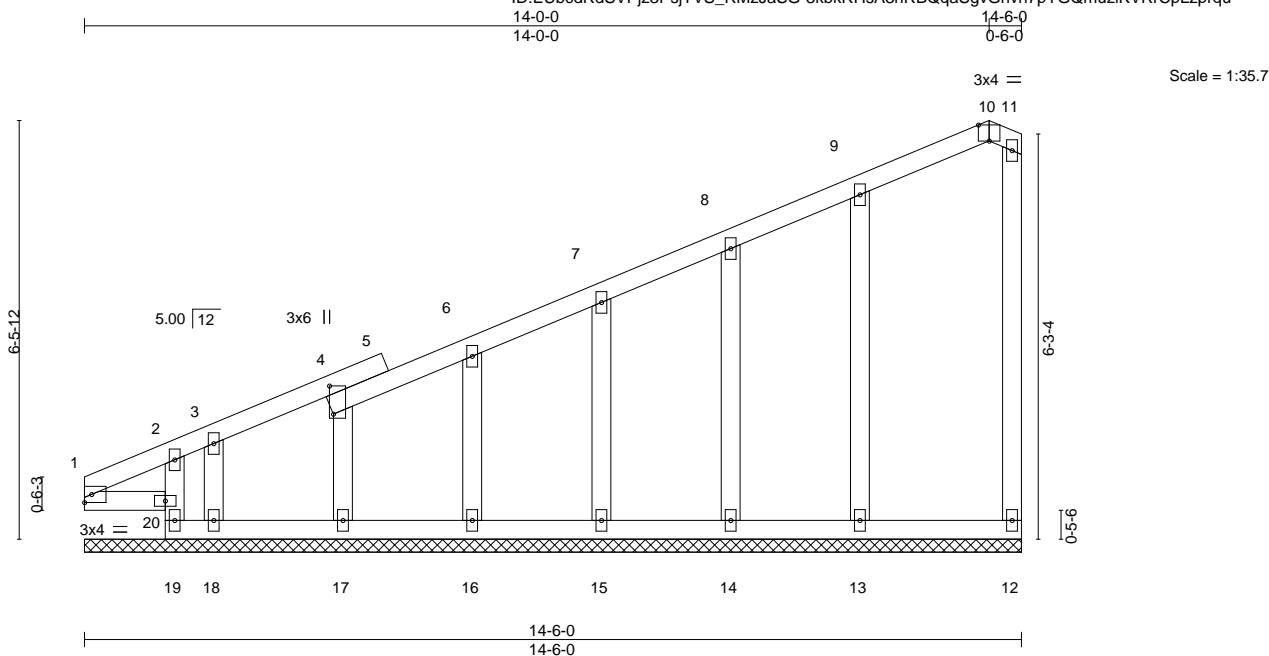
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| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 2221_L_160_C_2020 | V2 | GABLE | 1 | 1 | T22666921 |
| Job Reference (optional) | | | | | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

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| Plate Offsets (X,Y)-- [4:0-5-4,0-0-12], [10:0-2-0,Edge] | | | | | | | | | |
|---|-------|-----------------------|------|-------------|------|----------------------------------|-------------|---------------|------------------------|
| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. in (loc) l/defl L/d | | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.08 | Vert(LL) | n/a - n/a | 999 | MT20 244/190 |
| TCDL | 20.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | n/a - n/a | 999 | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.00 19 n/a | n/a | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | | | | Weight: 84 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
10-0-0 oc bracing: 19-20
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

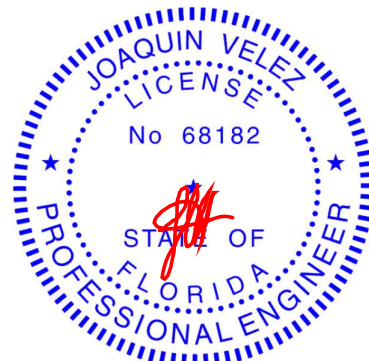
All bearings 14-6-0.
(lb) - Max Horz 1=309(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 13, 14, 15, 20, 16, 17, 18
Max Grav All reactions 250 lb or less at joint(s) 19, 1, 12, 14, 15, 20, 16, 18 except 13=316(LC 17), 17=255(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-429/162, 2-3=-434/163, 3-4=-380/148, 4-6=-330/128, 6-7=-273/106
WEBS 9-13=-208/252

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -0-0-11 to 4-0-0, Interior(1) 4-0-0 to 14-0-0, Exterior(2E) 14-0-0 to 14-4-4 zone; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 13, 14, 15, 20, 16, 17, 18.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

February 1, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



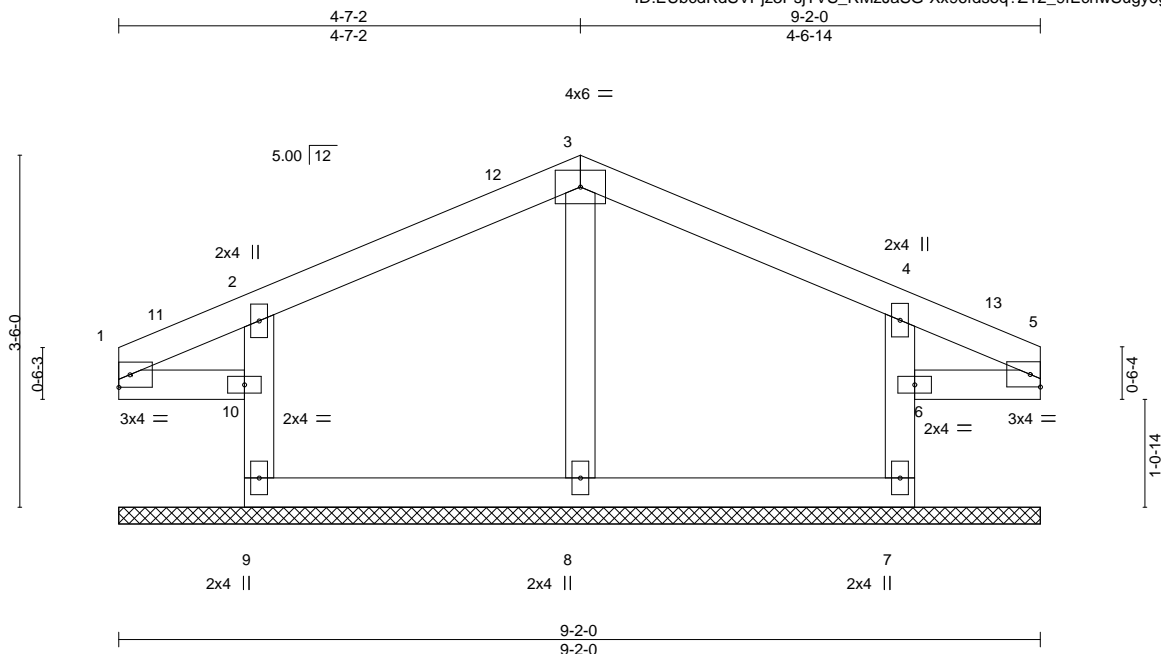
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Tampa, FL 33610

| | | | | | |
|-------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | T22666922 |
| 2221_L_160_C_2020 | V3 | Valley | 1 | 1 | |

Builders FirstSource (Punta Gorda, FL), Punta Gorda, FL - 33950,

8.430 s Nov 30 2020 MiTek Industries, Inc. Sun Jan 31 11:26:30 2021 Page 1

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Scale = 1:22.9

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.25 | TC 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL 20.0 | Lumber DOL | 1.25 | BC 0.09 | Vert(CT) | n/a | - | n/a | 999 | 244/190 |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | 0.00 | 7 | n/a | n/a | |
| BCDL 10.0 | Code FBC2020/TPI2014 | | Matrix-R | | | | | | |
| | | | | | | | | Weight: 38 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 6-7
10-0-0 oc bracing: 9-10
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

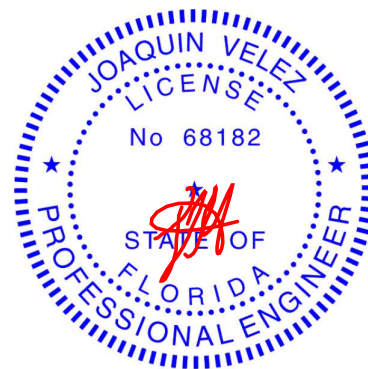
All bearings 9-2-0.
(lb) - Max Horz 1=-140(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8 except 7=-127(LC 12), 10=-145(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9, 1, 5 except 7=298(LC 18), 8=303(LC 17), 10=267(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-273/394, 6-7=-297/375, 4-6=-266/393

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=79ft; L=40ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -0-0-11 to 3-11-5, Interior(1) 3-11-5 to 4-7-2, Exterior(2R) 4-7-2 to 8-7-2, Interior(1) 8-7-2 to 9-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8 except (jt=lb) 7=127, 10=145.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.



Joaquin Velez PE No.68182
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Date:

February 1, 2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

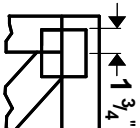
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



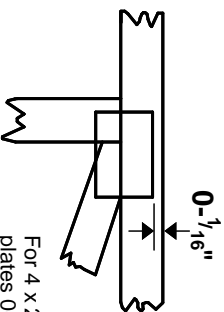
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Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MITek 20/20 software or upon request.**

PLATE SIZE

4 X 4

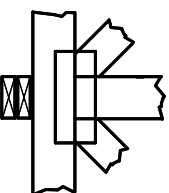
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



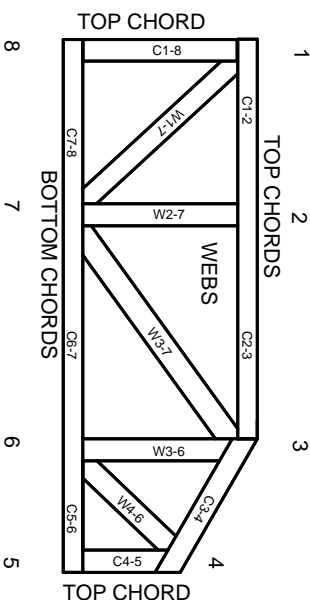
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITEK Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.