COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES

Revised 12/2016

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each	ns to Inclu n Box shal Marked as Applicable rom the D	ll be
1	Two (2) complete sets of plans containing the following:		rom the L	roppox
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	-		
3			AC	T 37/A
3	Condition space (Sq. Ft.) 2494 Total (Sq. Ft.) under roof 3547	YES	NO	N/A
be	signers name and signature shall be on all documents and a licensed architect or engineer, signature an affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2 te Plan information including:	2.1		seal shal
4	Dimensions of lot or parcel of land	- \	BS	
5	Dimensions of all building set backs	- \	es	
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- y	PS	
7	Provide a full legal description of property.	- U	25	
	ind-load Engineering Summary, calculations and any details are required. GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each N Ap	ns to Inclu Box shal Marked as plicable	l be
8	Plans or specifications must show compliance with FBCR Chapter 3	YES	NO	N/A
		Select Fr	om the D	ropbox
9	Basic wind speed (3-second gust), miles per hour	· U	PS	
10	(Wind exposure – if more than one wind exposure		æ\$	
	is used, the wind exposure and applicable wind direction shall be indicated)	- 4	~>	
11	Wind importance factor and nature of occupancy	- U	R	
12	The applicable internal pressure coefficient, Components and Cladding	- U	25	
	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,			
13	cladding materials not specifally designed by the registered design professional.	- U	es	
Ele	evations Drawing including:			
14	All side views of the structure	T- L	les	
15	Roof pitch		162	
16	Overhang dimensions and detail with attic ventilation	- 4		
17	Location, size and height above roof of chimneys	1 - 4		
18	Location and size of skylights with Florida Product Approval	- 4		
18	Number of stories		2.9	
20 <i>A</i>	Building height from the established grade to the roofs highest peak	- u		

Fl	oor Plan including:	
	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck,	
20	balconies	- 485
21	Raised floor surfaces located more than 30 inches above the floor or grade	· h/a.
22	All exterior and interior shear walls indicated	· Hec
23	Shear wall opening shown (Windows, Doors and Garage doors)	- yes
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each	
	bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the	
	opening of an operable window is located more than 72 inches above the finished grade or surface	
1	below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above	· yes
	the finished floor of the room in which the window is located. Glazing between the floor and 24	
	inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	
25	Safety glazing of glass where needed	- na
	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth	
26	(see chapter 10 and chapter 24 of FBCR)	250
	(************************************	-
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	
	The state of the s	- n 2
28	Identify accessibility of bathroom (see FBCR SECTION 320)	- nia
	1222	
ΔII	materials placed within opening or onto/into exterior walls, soffits or roofs shall	have Florida product
	proval number and mfg. installation information submitted with the plans (see Fl	
		orida product approva
ior	rm)	
	CHAMPAY DECLEMENT	
	GENERAL REQUIREMENTS:	Items to Include-
	APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each Box shall be
		Marked as
		Applicable
		YES / NO / N/A
<u>FB</u>	CR 403: Foundation Plans	120 / 110 / 11/11
		Select From the Dropbox
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	. yes
	and type of reinforcing.	
30	All posts and/or column footing including size and reinforcing	- yes
31	Any special support required by soil analysis such as piling.	- ha
32	Assumed load-bearing valve of soil Pound Per Square Foot	-
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structure	es
	with foundation which establish new electrical utility companies service connection a Concrete	
- 1	Encased Electrode will be required within the foundation to serve as an grounding electrode system.	- rha
	Per the National Electrical Code article 250.52.3	
FB	CR 506: CONCRETE SLAB ON GRADE	
34		. 765
35		100
55	one we control joints, synthetic from reinforcement of weided the faorie reinforcement and Supports	1º 7°5
	OD 410. BROWEOWIAN A CALNOW WERE SERVICE	
rB	CR 318: PROTECTION AGAINST TERMITES	
	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	
36	Submit other approved termite protection methods. Protection shall be provided by registered	· URS
	termiticides	
FB	CR 606: Masonry Walls and Stem walls (load bearing & shear Walls)	
	Show all materials making up walls, wall height, and Block size, mortar type	I- UES
	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	
	tal frame shear wall and roof systems shall be designed, signed and sealed by Florida Pro	f Engineer on Architect
TATE	ar it ame sucar wan and root systems shan be designed, signed and sealed by Fiorida Pro	n. Lugineer of Architect
Di-	or Evening Systems First and/or second story	
	or Framing System: First and/or second story	
	Floor truss package shall including layout and details, signed and sealed by Florida Registered	- yes
39	Professional Engineer	7

40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers	- yes
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers	- (167
42	Attachment of joist to girder	- 467
43	Wind load requirements where applicable	- Upi
44	Show required under-floor crawl space	- nla
45	Show required amount of ventilation opening for under-floor spaces	- wa
46	Show required covering of ventilation opening	· Ma
47	Show the required access opening to access to under-floor spaces	
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	140
48	intermediate of the areas structural panel sheathing	- Mes
49	Show Draftstopping, Fire caulking and Fire blocking	- 4-63
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	- 4-02
51	Provide live and dead load rating of floor framing systems (psf).	- yes
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION	YES / NO / N/A
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
50	Sendan and all all all all all all all all all al	elect From the Dropbox
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- 485
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	- ues
54	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	- yes
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	-yes
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	· yes
57	Indicate where pressure treated wood will be placed	- yes
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	- 116
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- Ues
	CR :ROOF SYSTEMS:	
	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	1100
	Include a layout and truss details, signed and sealed by Florida Professional Engineer	- Ves
	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	1400
	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	· yes
	Provide dead load rating of trusses	· ULS
	CR 802:Conventional Roof Framing Layout	
	Rafter and ridge beams sizes, span, species and spacing	- UPS
	Connectors to wall assemblies' include assemblies' resistance to uplift rating	- ives
	Valley framing and support details	25
68	Provide dead load rating of rafter system	- 625
	CR 803 ROOF SHEATHING	
69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	- UPS
	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	- URS
	District and some and to structural panel anearming on the edges of intermediate areas	F V(1)
RO	OF ASSEMBLIES FRC Chapter 9	
	Include all materials which will make up the roof assembles covering	- u-es T
	Submit Florida Product Approval numbers for each component of the roof assembles covering	· 447

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

YES / NO / N/A

73 74	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Show the insulation R value for the following areas of the structure Attic space Exterior wall cavity	Items to Include- Each Box shall be Marked as Applicable Select From the Dropbox - USS
75		· ues
76 H	VAC information	I Ma
77	Submit two copies of a Manual J sizing equipment or equivalent computation study	- UES
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or	- Wes
	20 cfm continuous required	- Ups
79	Show clothes dryer route and total run of exhaust duct	- 425
Pl 80 81	All fixtures waste water lines shall be shown on the foundation plan Show the location of water heater	- CPS
82 83	ivate Potable Water Pump motor horse power Reservoir pressure tank gallon capacity	- 7 - NA
84	Rating of cycle stop valve if used	- IVA
85 86 87	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A Show the location of smoke detectors & Carbon monoxide detectors	- U-es - U-es - U-es
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	- 425
90	Appliances and HVAC equipment and disconnects	· N-67
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter, Protection device.	<u>- Ues</u>

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	NO		
93	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	NQ	ye	2
94	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	NO		
***	BELOW ITEMS ONLY NEEDED AFTER ZONING APPROVAL HAS GIVEN.	***	***	***
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	NO	Mes	,
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	NO		
97	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations	NO		
98	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.			
99	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			
100	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	NO		
101	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	NO		

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

<u>Disclosure Statement for Owner Builders</u> If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

Notification:

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

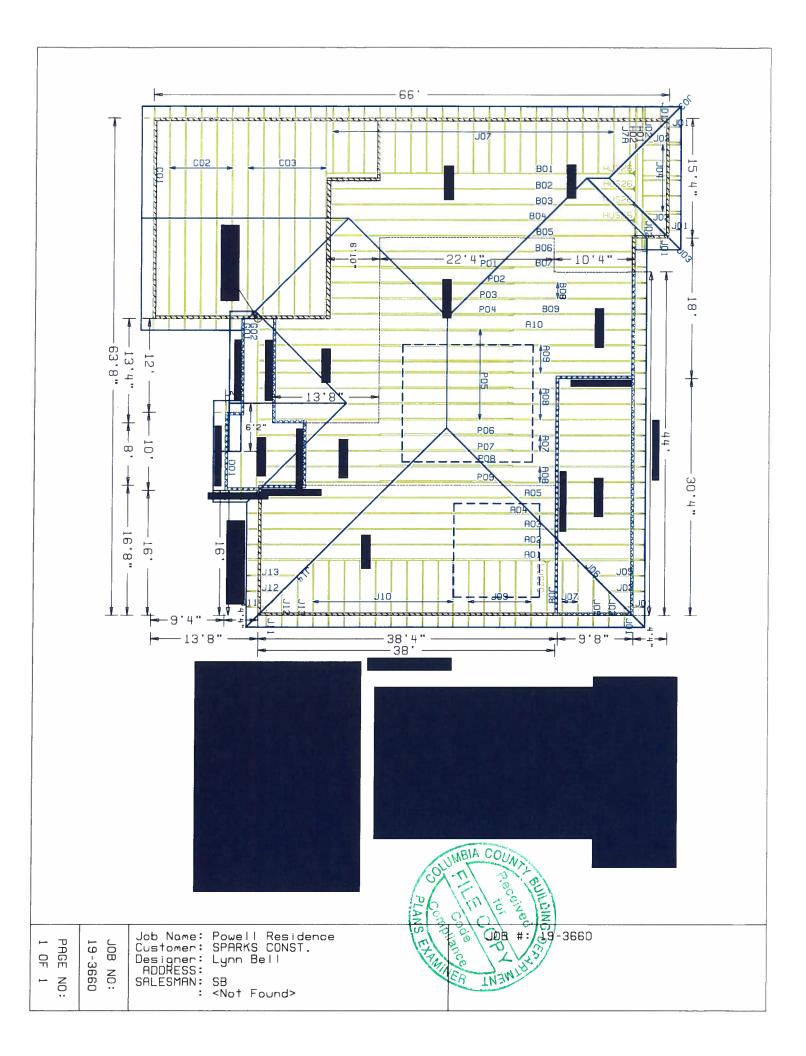
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Masonite	Single hung	FL5465-R9
B. SLIDING			
C. SECTIONAL/ROLL UP	CHI Overhead	Garriae Door	FL12065-R4
D. OTHER	CHI Overhead Masonite	Garage Door Single door w side lites	FL 17065-R4 FL 1776-R2
		J	
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	MI Windows	Single hung	F 17499 - R5
B. HORIZONTAL SLIDER		3	
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Harb je	planksiding	FL10477-R7
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Timberline		F13443-R29
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS	Simpson		
B. WOOD ANCHORS			FL 420-R18
C. TRUSS PLATES	S		
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
			22
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

	10-30-R		
Contractor OR Agent Signature	Date	NOTES:	
			7







ABIA COU

Alpine, an ITW Company 6750 Forum Drive, Suite 305 Orlando, FL 32821 Phone: (800)755-6001 www.alpineitw.com



Site Information:

Customer: W. B. Howland Company, Inc.

Job Number: 19-3660

Job Description: /Powell Residence /SPARKS CONST.

Address: FL

Job Engineering Criteria:			
Design Code: FBC 2017 RES			IntelliVIEW Version: 18.02.01B
			JRef#: 1WPQ2150004
Wind Standard: ASCE 7-10	Wind Speed (mph):	130	Roof Load (psf): 20.00-10.00- 0.00-10.00
Building Type: Closed			Floor Load (psf): None

This package contains general notes pages, 52 truss drawing(s) and 4 detail(s).

Item	Seal #	Truss
1	301.19.1524.20022	A01
3	301.19.1524.21442	A03
5	301.19.1524.20444	A05
7	301.19.1524.21630	A07
9	301.19.1524.19961	A09
11	301.19.1524.20912	B01
13	301.19.1524.19960	B03
15	301.19.1524.19665	B05
17	301.19.1524.20055	B07
19	301.19.1524.21224	B09
21	301.19.1524.20880	C02
23	301.19.1524.19757	D01
25	301.19.1524.21771	G02
27	301.19.1524.20802	H02
29	301.19.1524.20303	J02
31	301.19.1524.20350	J04
33	301.19.1524.20398	J06
35	301.19.1524.20366	J7A
37	301.19.1524.20788	J09
39	301.19.1524.19555	J11
41	301.19.1524.19962	J13
43	301.19.1524.20226	P02
45	301.19.1524.20896	P04
47	301.19.1524.20132	P06
49	301.19.1524.20615	P08
51	301.19.1532.27460	J14

Item	Seal #	Truss
2	301.19.1524.20242	A02
4	301.19.1524.20678	A04
6	301.19.1524.19820	A06
8	301.19.1524.20243	A08
10	301.19.1524.20133	A10
12	301.19.1524.20070	B02
14	301.19.1524.20459	B04
16	301.19.1524.19710	B06
18	301.19.1524.20522	B08
20	301.19.1524.21021	C01
22	301.19.1524.21083	C03
24	301.19.1524.21676	G01
26	301.19.1524.21629	H01
28	301.19.1524.19866	J01
30	301.19.1524.21239	J03
32	301.19.1524.20289	J05
34	301.19.1524.20196	J07
36	301.19.1524.20646	J08
38	301.19.1524.21348	J10
40	301.19.1524.19617	J12
42	301.19.1524.20272	P01
44	301.19.1524.20101	P03
46	301.19.1524.21052	P05
48	301.19.1524.21303	P07
50	301.19.1524.20194	P09
52	301.19.1532.32953	A01





Alpine, an ITW Company 6750 Forum Drive, Suite 305 Orlando, FL 32821 Phone: (800)755-6001 www.alpineitw.com

Site Information:	Page 2:
Customer: W. B. Howland Company, Inc.	Job Number: 19-3660
Job Description: /Powell Residence /SPARKS CONST.	
Address: FL	

Item	Seal #	Truss
53	A14015ENC10101 4	
55	GBLLETIN0118	

Item	Seal #	Truss
54	BRCLBSUB0119	
56	PB160101014	

General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2; and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AF&PA. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

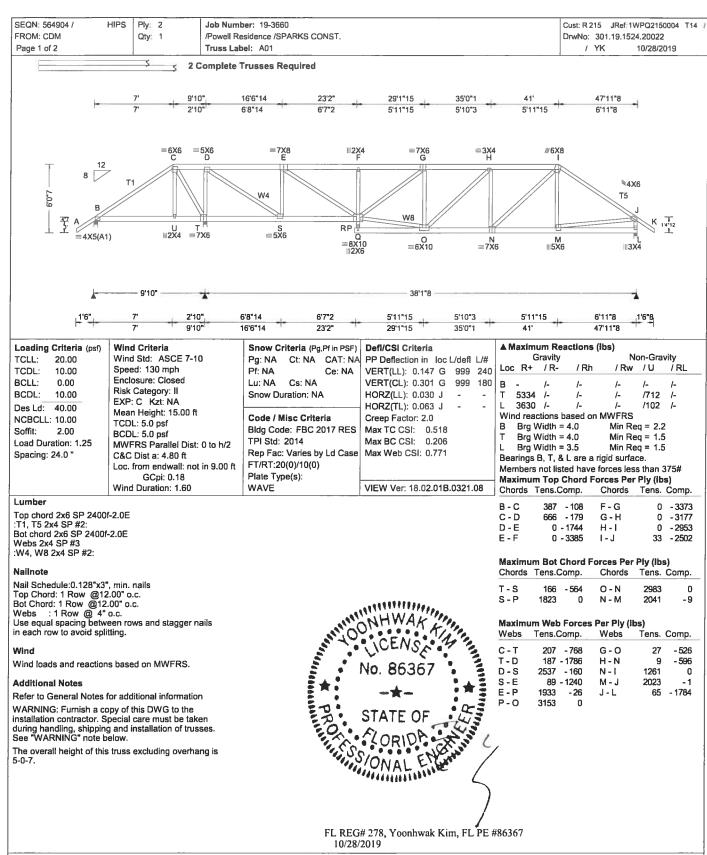
VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment. W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

References:

- 1. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
- 4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co



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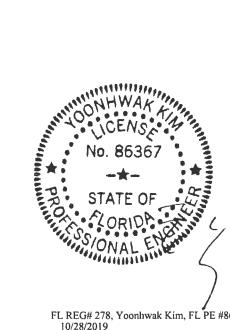
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SEQN: 564904 /	HIPS	Ply:	2	Job Number: 19-3660	Cust: R 215	JRef 1WPQ2150004	4 T14 /
FROM: CDM		Qty:	1	/Powell Residence /SPARKS CONST.	DrwNo: 30	1.19.1524.20022	
Page 2 of 2				Truss Label: A01	/ YK	10/28/2019	

Special Loads

(Lumbe	er Dur.Fa	ac.=1.	.25	/PI	ate	Dur.F	ac.=1	.25)
TC:	From	60 plf	at	-1.	50 1	o	60 pli	at	7.00
TC:	From	30 plf	at	7.	00 (0	30 plf	at	41.00
TC:	From	60 plf	at	41.	00 t	0	60 plf	at	49.50
		5 plf					5 pli		0.00
		20 plf					20 pli		7.03
		10 plf					10 plf		40.97
		20 plf					20 plf		47.96
		5 plf					5 plf	at	49.50
		b Conc.							
		b Conc.							
		b Conc.						24.94	,26.94
		,32.94,3							
		b Conc.	Load	at	13.0	16,1	5.06,	17.06	,19.06
21.06						_			
TC:		b Conc.							
BC:		b Conc.							
		b Conc.							
		b Conc.							
BC:		b Conc.	Load	at	13.0	36,1	5.06,1	17.06	,19.06
21.06									
		b Conc.				16,2	4.94,2	26.94	,28.94
		,34.94,3							
BC:	526 I	b Conc.	Load	at ·	40.9	37			



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SEQN: 564906 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T15 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20242 Truss Label: A02 / YK 10/28/2019 4'8"7 18'5"14 28'5"15 33'8"1 43'6" 13'8" 23'2" 39 47'11"8 4'8"7 4'3"9 4'8" 4'9"14 4'8"2 5'3"15 5'3"15 4'6" 5'2"3 4'5"8 ≡5X6 G ≡5X6 =6<u>X</u>8 = 5X6 Н **∥2**X4 ₹3X6 W III2X4 _3X5(A1) [∏]N ⊪2X6 Р =6X8 |||2X4 R ≡6X8 Q ≡6X8 __O =4X4 9'10" 38'1"8 1'6" 4'8"7 5'1"9 3'10" 4'9"14 4'8"2 5'3"15 5'2"3 5'3"15 4'6" 4'5"8 1'6"8 9'10' 13'8" 4'8"7 18'5"14 23'2" 28'5"15 33'8"1 39 43'6" 47'11"8 Loading Criteria (psf) Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria ▲ Maximum Reactions (lbs) Wind Criteria Non-Gravity TCLL: Wind Std: ASCE 7-10 Gravity 20.00 Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Loc R+ /Rw /U ÍRL /Rh /R-TCDL: 10.00 Speed: 130 mph Ce: NA Pf: NA VERT(LL): 0.098 H 999 240 Enclosure: Closed BCLL: 0.00 VERT(CL): 0.195 H 999 180 Lu: NA Cs: NA В 123 1-444 /-/168 /237 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): 0.020 N 2795 /-/1538 /515 EXP: C Kzt: NA HORZ(TL): 0.041 N 1453 /-/-/912 /270 Des Ld: 40.00 Mean Height: 15.00 ft Wind reactions based on MWFRS Code / Misc Criteria Creep Factor: 2.0 NCBCLL: 10.00 TCDL: 5.0 psf Brg Width = 4.0 Min Req = 1.5 Bldg Code: FBC 2017 RES Max TC CSI: 0.611 Soffit: 2.00 BCDL: 5.0 psf Brg Width = 4.0 Min Req = 3.3 TPI Std: 2014 Max BC CSI: 0.521 Load Duration: 1.25 MWFRS Parallel Dist: h/2 to h Brg Width = 3.5 Min Reg = 1.7 Rep Fac: Yes Max Web CSI: 0.805 Spacing: 24.0 * C&C Dist a: 4.80 ft Bearings B, X, & N are a rigid surface. FT/RT:20(0)/10(0) Loc. from endwall: not in 6.50 ft Members not listed have forces less than 375# GCpi: 0.18 Plate Type(s): Maximum Top Chord Forces Per Ply (lbs) WAVE VIEW Ver: 18.02.01B.0321.08 Wind Duration: 1.60 Chords Tens.Comp. Chords Tens. Comp. Lumber B-C 997 - 234 G-H 504 - 1526 Top chord 2x4 SP #2 C-D 987 - 127 H-1 542 - 1591 Bot chord 2x4 SP #2 Webs 2x4 SP #3 D-E 1141 - 194 1 - J 543 - 1582 E-F 324 -827 J-K 506 - 1603 F-G 505 - 1530 K-L 446 - 1626 (a) Continuous lateral restraint equally spaced on Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. **Plating Notes** - 300

member.

All plates are 3X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

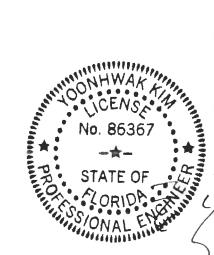
Additional Notes

Refer to General Notes for additional information

Negative reaction(s) of -444# MAX, from a non-wind load case requires uplift connection. See Maximum Reactions.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is



B - Y 277 - 798 R-Q 1595 Y - X 393 - 989 Q-P 1272 -219 V-S 882 -96 P-O 1303 - 278

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
Y-D	517 - 212	F-S	1057	- 268
D - X	301 - 1107	S-R	1599	- 298
X - E	518 - 1896	Q-J	525	- 151
E-V	1513 - 380	0-L	1315	- 279
V-F	321 - 1111	L - N	442	- 1413

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

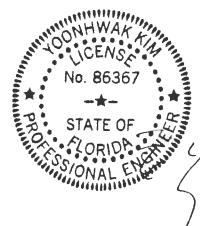
SEQN: 564910 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef 1WPQ2150004 T10 / DrwNo: 301.19.1524,21442 FROM: CDM Powell Residence /SPARKS CONST. Qty: 1 Truss Label: A03 10/28/2019 47'11"8 5'0"9 9'10" 17 23'2" 30' 37 42'6" 5'0"9 4'9"7 6'2" 6'10" 5'6" 5'5"8 ■6X8 ■4X6 E D = 5X6 = 5X6 F н (a) 8'8"7 (a) (a) SQ R u W 112X4 4X5 3X5(A1) 3X5 = 6X8 = O = 5X6 ■4X5 М 6X6 6X8 **∥2X6** 9'10" 38'1"8 1'6" 5'0"9 4'9"7 6 6'2" 6'10' 7 5'6' 5'5"8 1'6"8 23'2" 37 42'6' 47'11"8 5'0"9 9'10" 17 30' Wind Criteria Snow Criteria (Pg,Pf in PSF) ▲ Maximum Reactions (lbs) Loading Criteria (psf) Defl/CSI Criteria Gravity Non-Gravity Wind Std: ASCE 7-10 TCLL: 20.00 Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Loc R+ /R-/Rw /U /RL TCDL: Speed: 130 mph 10.00 Pf: NA Ce: NA VERT(LL): 0.108 G 999 240 Enclosure: Closed BCLL: Lu: NA VERT(CL): 0.215 G 999 180 0.00 Cs: NA В 335 /40 1-4 Risk Category: II BCDL: 10.00 Snow Duration: NA HORZ(LL): 0.029 M 2238 /-/1295 /413 /-EXP: C Kzt: NA HORZ(TL): 0.058 M 1573 /-/-/993 /288 /-Des Ld: 40.00 М Mean Height: 15.00 ft Wind reactions based on MWFRS Code / Misc Criteria Creep Factor: 2.0 NCBCLL: 10.00 TCDL: 5.0 psf В Brg Width = 4.0 Min Req = 1.5 Bldg Code: FBC 2017 RES Max TC CSI: 0.530 Soffit: 2.00 BCDL: 5.0 psf Brg Width = 4.0 Min Req = 2.3 TPI Std: 2014 Max BC CSI: 0.704 Load Duration: 1.25 MWFRS Parallel Dist: h/2 to h М Brg Width = 3.5 Min Req = 1.9 Ren Fac: Yes Max Web CSI: 0.719 Spacing: 24.0 " C&C Dist a: 4.80 ft Bearings B, V, & M are a rigid surface. FT/RT:20(0)/10(0) Loc. from endwall: not in 6.50 ft Members not listed have forces less than 375# GCpi: 0.18 Plate Type(s): Maximum Top Chord Forces Per Ply (lbs) Wind Duration: 1.60 WAVE VIEW Ver: 18.02.01B.0321.08 Chords Tens.Comp. Chords Tens. Comp. Lumber C-D 567 - 1640 518 - 59 H - ITop chord 2x4 SP #2 E-F 375 - 982 I - J 542 - 1735 Bot chord 2x4 SP #2 Webs 2x4 SP #3 F-G 548 - 1657 .I - K 488 - 1849 G-H 548 - 1653 Maximum Bot Chord Forces Per Ply (lbs) (a) Continuous lateral restraint equally spaced on Chords Tens.Comp. Chords Tens. Comp. member. 1027 - 117 1474 0 - N **Plating Notes** P-0 1369 - 221 All plates are 3X4 except as noted. Maximum Web Forces Per Ply (lbs) Wind loads based on MWFRS with additional C&C

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 7-8-7.



vveos	rens.Comp.	vveds	iens.	Comp.
V-D	473 - 1884	Q-P	1627	- 286
D-U	1496 - 338	H-P	165	- 439
E-U	367 - 1490	P-I	422	- 119
E-T	1637 - 428	N - K	1465	- 300
T-F	359 - 1150	K-M	462	- 1525
F-Q	985 - 250			

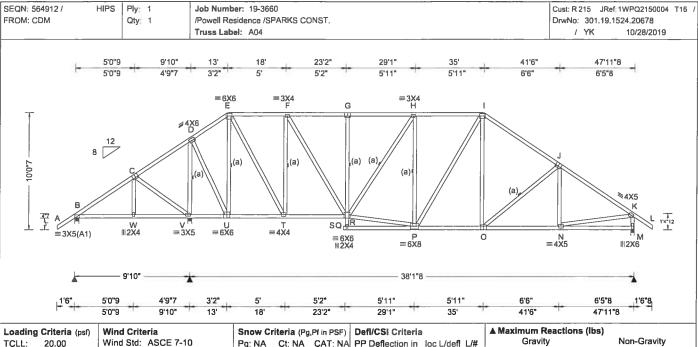
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Loading Criteria (psi)	wind Criteria	ı
TCLL: 20.00	Wind Std: ASCE 7-10	
TCDL: 10.00	Speed: 130 mph	ı
BCLL: 0.00	Enclosure: Closed	ı
BCDL: 10.00	Risk Category: II	ı
	EXP: C Kzt: NA	ı
Des Ld: 40.00	Mean Height: 15.00 ft	Ī
NCBCLL: 10.00	TCDL: 5.0 psf	
Soffit: 2.00	BCDL: 5.0 psf	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	
Spacing: 24.0 "	C&C Dist a: 4.80 ft	
	Loc. from endwall: not in 13.00 ft	
	GCpi: 0.18	
	Wind Duration: 1.60	

	/. 9	,	
Pg: NA	Ct: NA	CAT: NA	PP Deflection
Pf: NA		Ce: NA	VERT(LL): 0.0
Lu: NA	Cs: NA		VERT(CL): 0.
Snow Duration: NA			HORZ(LL): 0.0
			HORZ(TL): 0.0
Code / N	lisc Crite	ria	Creep Factor:
Bldg Cod	le: FBC 2	017 RES	Max TC CSI:
TPI Std:	2014		Max BC CSI:
Rep Fac	Yes		Max Web CSI

FT/RT:20(0)/10(0) Plate Type(s): WAVE

VERT(LL): 0.092 G	999	240		
VERT(CL): 0.181 G	999	180		
HORZ(LL): 0.028 M	-	- 1		
HORZ(TL): 0.055 M	-	-		
Creep Factor: 2.0				
Max TC CSI: 0.530				
Max BC CSI: 0.654				
Max Web CSI: 0.649				
VIEW Ver: 18.02.01B.0321.08				

ΔN	▲ Maximum Reactions (lbs)						
	Gravity Non-Gravity						
Loc	: R+	/ R-	/Rh	/ Rw	/ U	/RL	
В	364	/-	/-	/181	/51	/317	
V	2171	/-	/-	/129	1 /394	/-	
М	1585	1-	/-	/101	6 /288	/-	
Wir	nd rea	ctions b	ased on	MWFRS			
В	Brg \	Nidth =	4.0	Min R	eq = 1.5	j	
V	Brg \	Nidth =	4.0	Min R	eq = 2.2	?	
М	Brg \	Nidth =	3.5	Min R	eq = 1.9	}	
Bea	arings	B, V, &	M are a	rigid surf	ace.		
Mei	Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)							
Cho	ords '	Tens.Co	mp.	Chords	Tens.	Comp.	
~	ח	424	77	С Ц	E12	1426	

C-D	434 -77	G-H	513	- 1436
D-E	260 - 469	H - I	532	- 1430
E-F	399 - 977	l - J	537	- 1681
F-G	514 - 1438	J - K	494	- 1909

Bracing

Lumber

(a) Continuous lateral restraint equally spaced on

Plating Notes

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

All plates are 5X6 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

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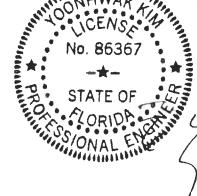
The overall height of this truss excluding overhang is 9-0-7.

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

T-Q 1013 -94 0 - N 1511 - 297 P-0 1303 - 183

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

603	rens.comp.	*	16113.	comp.
V-D	466 - 1861	F-Q	834	- 204
D - U	1333 - 282	Q-P	1433	-213
E-U	270 - 1145	N-K	1481	- 285
E-T	1299 - 343	K - M	460	- 1531
T-F	321 - 1041			



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



SEQN: 564914 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef 1WPQ2150004 T29 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20444 Truss Label: A05 / YK 10/28/2019 5'3"7 10'2" 15' 21'0"9 26'11"7 40'4"4 47'11"8 33' 6'0"9 5'3"7 4'10"9 4'10" 5'10"13 6'0"9 7'7"4 ≢H0510 D = 3X4 ₹6X6 8 2 (a) UF R1 S 3X5(A1) O = 3X4 = 3X8 K ⊪4X6 6X8 112X6 9'10" 38'1"8 5'3"7 4'10"9 4'10" 6'0"9 5'10"13 6'0"9 7'4"4 7'7"4 5'3"7 10'2 26'11"7 21'0"9 40'4"4 47'11"8 Snow Criteria (Pg,Pf in PSF) **Defl/CSI** Criteria ▲ Maximum Reactions (lbs) Loading Criteria (psf) | Wind Criteria

TCLL:	20.00		Wind
TCDL:	10.00		Speed
BCLL:	0.00		Enclo
BCDL:	10.00		Risk (
Des Ld:	40.00		EXP:
			Mean
NCBCLL	: 10.00		TCDL
Soffit:	2.00		BCDL
Load Du	ration: 1.25		MWF
Spacing:	24.0 "		C&C
			Loc. f
		- 1	

Std: ASCE 7-10 d: 130 mph sure: Closed Category: II C Kzt: NA Height: 15.00 ft L: 5.0 psf .: 5.0 psf RS Parallel Dist: h to 2h Dist a: 4.80 ft from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60

Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration; NA

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS

PP Deflection in loc L/defl L/# VERT(LL): 0.098 F 999 240 VERT(CL): 0.188 F 999 180 HORZ(LL): 0.043 I HORZ(TL): 0.085 I Creep Factor: 2.0 Max TC CSI: 0.903 Max BC CSI: 0.832 Max Web CSI: 0.701

VIEW Ver: 18.02.01B.0321.08

	Gravity				Non-Gravity		
	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
İ	В	707	/-	/-	/428	/4	/337
ł	U	1651	/-	1-	/996	/98	/-
	J	1576	/-	1-	/976	/72	/-
	Win	d read	tions ba	sed on N	WFRS		
ı	В	Brg W	/idth = 4	1.0	Min Re	q = 1.5	5
١	U	Brg W	/idth = 4	1.0	Min Re	q = 1.5	5
ĺ	J	Brg W	/idth = 3	3.5	Min Re	q = 1.9	3
ı	Bearings B, U, & J are a rigid surface.						
ı	Members not listed have forces less than 375#						
4	Max	imum	Top Cl	hord Fo	rces Per	Ply (lb	s)
J	Cho	rds T	ens.Co	mp. (Chords	Tens.	Comp.

B-C	157 - 756	F-G	536	- 1416
C-D	208 - 557	G-H	559	- 1751
D-E	481 - 1220	H-I	521	- 2077
E-F	535 - 1415			

Lumber

Top chord 2x4 SP #2 :T6 2x4 SP M-31: Bot chord 2x4 SP #2 :B1 2x4 SP M-31: Webs 2x4 SP #3

(a) Continuous lateral restraint equally spaced on

Plating Notes

All plates are 5X6 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

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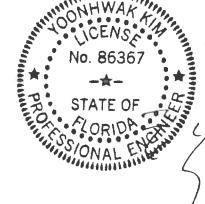
The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	Comp.	Chords	Tens.	Comp.
3 - S	592	- 199	N - M	1237	- 165
S - P	892	-412	M - L	1346	- 194
N-C	806	- 67	L-K	1641	- 335

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
P-D	306 - 1116	G-L	449	- 101
P-0	739 -62	L-H	188	- 387
D-N	898 - 224	K-I	1576	-312
N-E	217 -671	L-1	394	- 1512
E-M	388 - 107			



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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

SEQN: 564818 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T18 / FROM: CDM Qty: 2 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.19820 Truss Label: A06 / YK 10/28/2019 9'10" 15'6" 21'2"9 26'9"6 32'6" 37'3"2 42'2" 48' 9'10" 5'6"13 4'10"14 5'10" 5'8' 5'8"9 =5X6 =3<u>×</u>4 =5<u>X</u>6 =5X6 8 2 (a) ₹4X6 (a) (a) (a) =3X5(B1) ___O =5X6 = 5X6 P ≡3X4 =3X8 = 5X6 ||2X4 =3X5 ≝3X5(A1) 9'10" 32'6" 5'8" 9'10" 5'8" 5'8"9 5'8"9 4'9"2 4'10"14 5'10" 5'6"13 37'3"2 9'10 15'6 26'9"6 32'6' 42'2" Loading Criteria (nsf) Wind Criteria ▲ Maximum Reactions (lbs) Snow Criteria (Pg,Pf in PSF) **Defl/CSI Criteria**

WING OFFICE IS
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 16.20 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 4.80 ft
Loc. from endwall: not in 13.00 ft
GCpi: 0.18
Wind Duration: 1.60

Ct: NA CAT: NA Pg: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

Ŋ	PP Deflection in loc L/defl	L/#
ı	VERT(LL): 0.047 F 999	240
	VERT(CL): 0.093 F 999	180
i	HORZ(LL): 0.020 Q -	-
1	HORZ(TL): 0.042 Q -	-
İ	Creep Factor: 2.0	
ı	Max TC CSI: 0.795	
ł	Max BC CSI: 0.804	
۱	Max Web CSI: 0.679	
l		
l		
	VIEW Ver: 18.02.01B.0321.	.08

ŧ		G	ravity		No	n-Gra	vity	
0	Loc	R+	/ R-	/ Rh	/Rw	/ U	/RL	
0	В	685	/-	/-	/391	/31	/408	
- 1	Q	1417	/-	/-	/968	/-	/-	
-	K	1854	/-	/-	/1300	/-	/-	
	Wind reactions based on MWFRS							
	В	Brg V	Vidth =	4.0	Min Red	q = 1.5	5	
	Q	Brg V	Vidth =	4.0	Min Red	q = 1.3	7	
	K	Brg V	Vidth =	4.0	Min Red	q = 1.8	3	
	Bearings B, Q, & K are a rigid surface.							
	Members not listed have forces less than 375#							
\dashv	Maximum Top Chord Forces Per Ply (lbs)							
	Cho	rds 1	ens.Co	mp.	Chords	Tens.	Comp.	

B-C C-D	191 - 571 250 - 989	F-G G-H	228	- 1066 - 1116
D-E	267 - 1015	H-1		- 932
E-F	271 - 1066	I - J	449	- 242

Lumber

Top chord 2x4 SP #2 :T1 2x4 SP M-31: Bot chord 2x4 SP #2 Webs 2x4 SP #3

(a) Continuous lateral restraint equally spaced on member.

Wind

Wind loads based on MWFRS with additional C&C member design.

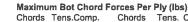
Right cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken

during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is



Chords	Tens.C	comp.	Chords	Tens. C	Comp.
B-Q	420	- 214	0 - N	1026	- 35
Q-P	427	- 214	N - M	863	0
P-0	717	- 123	M - L	725	-5

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens.	Comp.
Q-C	73 - 1200	N-G	440	- 14
C-P	710 0	H-L	81	- 661
D-P	0 -460	L-I	1137	-76
D-0	629 0	I-K	319	- 1707
0-E	18 -434			



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

SEQN: 564821 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T20 / FROM: CDM /Powell Residence /SPARKS CONST. Qty: 2 DrwNo: 301,19.1524.21630 Truss Label: A07 / YK 10/28/2019 5'0"9 9'10" 12'10" 15'6" 22'9"12 29'10" 32'6" 37'3"2 42'2" 5'0"9 4'9"7 3' 2'8" 7'3"12 7'0"4 4'10"14 5'10" 2'8' 4'9"2 ≡3X4 H #7X6 G ∌3X6 8 12 (a) 17 🗷 T S =4X6 = 3X8 ™_M = 3X5(B1) = 3X8 III 2X4 =3X8 ≝3X5(A1) 9'10' 32'6" 5'8" -3'2" 5'0"9 4'9"7 7'3"12 7'0"4 2'8" 4'10"14 4'9"2 5'10" 5'0"9 9'10" 13' 15'6 32'6 37'3"2 22'9"12 29'10 Loading Criteria (psf) Wind Criteria ▲ Maximum Reactions (lbs)

Loading Criteria (psf)	Wind Criteria	ı
TCLL: 20.00	Wind Std: ASCE 7-10	l
TCDL: 10.00	Speed: 130 mph	l
BCLL: 0.00	Enclosure: Closed	
BCDL: 10.00	Risk Category: II	
Des Ld: 40.00	EXP: C Kzt: NA	L
	Mean Height: 17.54 ft	ľ
NCBCLL: 10.00	TCDL: 5.0 psf	l
Soffit: 2.00	BCDL: 5.0 psf	
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	
Spacing: 24.0 "	C&C Dist a: 4.80 ft	
	Loc. from endwall: not in 13.00 ft	i
	GCpi: 0.18	1
	Wind Duration: 1.60	1

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

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Ren Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

No. 8'

Defl/CSI Criteria

PP Deflection in loc L/defl L/# VERT(LL): 0.056 G 999 240 VERT(CL): 0.111 G 999 180 HORZ(LL): 0.025 N HORZ(TL): 0.053 N Creep Factor: 2.0 Max TC CSI: 0.577 Max BC CSI: 0.699 Max Web CSI: 0.631 VIEW Ver: 18.02.01B.0321.08

Gravity /Rw /U / R-В 408 /209

/48 /478 1823 /-/1245 /32 /-1769 /-/-/1257 Wind reactions based on MWFRS Brg Width = 4.0 Min Req = 1.5 Brg Width = 4.0 Min Req = 1.8 Brg Width = 4.0 Min Reg = 1.7 Bearings B, Y, & M are a rigid surface. Members not listed have forces less than 375#

Non-Gravity

/ RL

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

C - D	385	- 200	H - I	239	- 980
D-E	147	- 429	l - J	225	- 1015
E-F	189	- 676	J - K	185	- 857
F-G	250	- 999	K-L	450	- 247
G - H	252	- 999			

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

All plates are 5X6 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Right cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.0	Comp.	Chords	Tens. 0	Comp.
W - U	421	- 196	S-P	988	0
U - T	562	- 165	O - N	663	-8
T - C	562	165			

Maximum Web Forces Per Ply (lbs)

vvebs	rens.comp	. vveos	i ens.	Comp.
Y-D	136 - 144	B P-0	846	0
D - W	990 - 13	2 P-!	816	0
W - E	47 - 914	4 0-1	0	-477
E-U	709	J-N	77	- 614
F-U	1 - 569	9 N-K	1070	-70
F-S	746 - 14	1 K-M	316	- 1622
G-S	21 - 46	5		

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WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

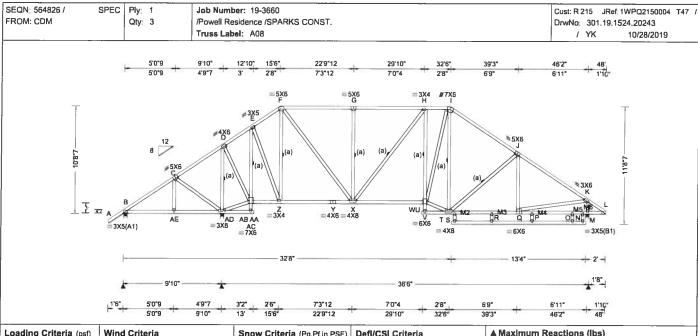
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Loading Criteria (psi)	Wind Criteria
TCLL: 20.00	Wind Std: ASCE 7-10
TCDL: 10.00	Speed: 130 mph
BCLL: 0.00	Enclosure: Closed
BCDL: 10.00	Risk Category: II
	EXP: C Kzt: NA
Des Ld: 40.00	Mean Height: 17.87 ft
NCBCLL: 10.00	TCDL: 5.0 psf
Soffit: 2.00	BCDL: 5.0 psf
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h
Spacing: 24.0 "	C&C Dist a: 4.80 ft
	Loc. from endwall: not in 13.00 ft
	GCpi: 0.18
	Wind Duration: 1.60

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

Code / Misc Criteria Bidg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE VIEW Ver: 18.02.01B.0321.08

Defl/CSI Criteria PP Deflection in loc L/defl L/#

VERT(LL): 0.078 W	999	240
VERT(CL): 0.150 R	999	180
HORZ(LL): 0.034 M	-	-
HORZ(TL): 0.069 M	-	-
Creep Factor: 2.0		
Max TC CSI: 0.580		
Max BC CSI: 0.764		
Max Web CSI: 0.478		ĺ

▲ Maximum Reactions (lbs)

ľ		G	ravity		No	ก-Gra	vity
o	Loc	R+	/ R-	/Rh	/ Rw	/ U	/ RL
)	В	374	/-	/-	/175	/52	/495
1	AD	2087	/-	/-	/1363	/25	/-
-	M	1557	/-	/-	/1028	/-	/
	Win	d reac	tions b	ased on	MWFRS		
	В	Brg W	/idth =	4.0	Min Red	q = 1.5	5
ı	AD	Brg W	idth =	4.0	Min Red	= 2.	1
ł	M	Brg W	/idth =	4.0	Min Red	= 1.5	5
	Bea	rings E	3, AD, 8	Mare:	a rigid surf	ace.	
	Mer	nbers i	not liste	ed have t	forces less	than:	375#
4	Max	cimum	Top C	hord Fo	rces Per l	Ply (lb	s)
	Cho	rds T	ens.Co	mp.	Chords	Tens.	Comp.

C-D	452 - 191	G-H	332	- 1209
D-E	169 - 422	H - I	317	- 1336
E-F	232 - 748	L-1	297	- 1488
F-G	332 - 1209	J - K	282	- 1736

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

Filler 2x4 SP #2

All plates are 2X4 except as noted.

:M2, M3, M4, M5, M6 2x4 SP #2:

Laterally brace BC at 24" oc in lieu of rigid ceiling. Laterally brace BC above filler at 24" oc.

Wind loads based on MWFRS with additional C&C member design.

Right cantilever is exposed to wind

Additional Notes

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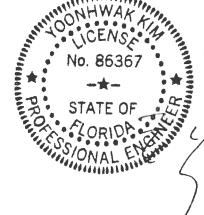
The overall height of this truss excluding overhang is 10-8-7.

Maximum Bot Chord Forces Per Ply (lbs)

CHUIUS	rens.comp.		Charas	rens. Comp.		
AB- Z	423	- 196	T-S	1356	- 110	
Z - Y	607	- 149	S - R	1334	- 110	
Y - X	607	- 149	R-Q	1334	- 110	
X-U	1340	0				
X - U	1340	0				

Maximum Web Forces Per Ply (lbs)

webs	Tens.Comp.	Webs	Tens.	Comp.
AD- D	192 - 1668	G - X	45	- 467
D -AB	1176 -46	Ų - T	1254	0
AB-E	96 - 1119	U - I	765	0
E-Z	883 -28	Q-K	1210	-46
F-Z	39 - 732	K - M	290	- 1436
F - X	991 -90			



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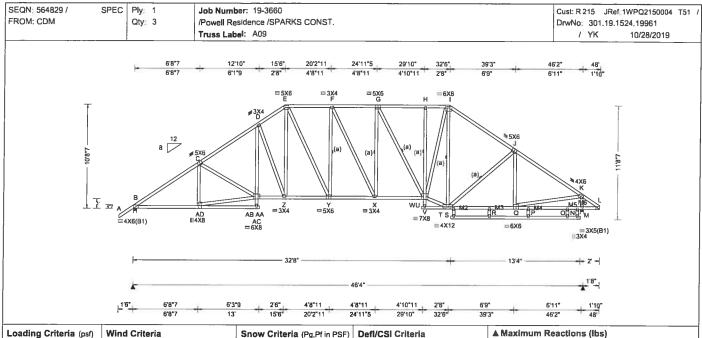
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	_
ft	
	ı ft

Snow Criteria (Pg,Pf in PSF) Pq: NA Pf: NA Ce: NA Ltr: NA Cs: NA Snow Duration: NA

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

Defl/CSI Criteria

Ct: NA CAT: NA PP Deflection in loc L/defl L/# VERT(LL): 0.178 F 999 240 VERT(CL): 0.355 F 999 180 HORZ(LL): 0.094 M HORZ(TL): 0.188 M Creep Factor: 2.0 Max TC CSI: 0.545 Max BC CSI: 0.799 Max Web CSI: 0.994

VIEW Ver: 18.02.01B.0321.08

Brg Width = 4.0 Bearings B & M are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 441 - 2894 474 - 2085 C-D 439 - 2842 H-I 430 - 2082 D-E 452 - 2472 1-1 - 2179 400 E-F 456 - 2213 J-K 372 -2350

/Rh

/-

Wind reactions based on MWFRS

477 - 2244

Gravity

/ R-

Brg Width = 4.0

1950 /-

1989 /-

Non-Gravity

/Rw /U

/1193 /17

Min Req = 2.3

Min Reg = 2.0

/1213 /-

/ RL

/495

Lumber

Top chord 2x4 SP #2

Bot chord 2x4 SP #2 Webs 2x4 SP #3 :M2, M3, M4, M5, M6 2x4 SP #2: Filler 2x4 SP #2

(a) Continuous lateral restraint equally spaced on member

Plating Notes

All plates are 2X4 except as noted.

Laterally brace BC at 24" oc in lieu of rigid ceiling. Laterally brace BC above filler at 24" oc.

Wind loads based on MWFRS with additional C&C member design.

Right cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is 10-8-7.

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

F-G

Loc R+

В

B-AD 2314 - 322 X-U 2246 -86 AB-Z 2281 - 212 1870 T-S - 186 - 129 Z - Y 2007 S-R 1845 - 185 Y - X - 122 1845 2223 R-Q - 185

Maximum Web Forces Per Ply (lbs)

vvebs	rens.c	omp.	vvebs	lens.	Comp.
AD-AB	2291	- 320	U-T	1866	-65
AB- D	646	- 126	U - I	1438	- 31
D-Z	240	- 792	T-1	36	- 556
E-Z	716	- 203	Q-K	1685	- 118
E - Y	470	- 93	K - M	342	- 1858
G-U	149	- 382			

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Suite 305 Orlando FL, 32821 SEON: 564832 / SPEC | Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T30 / FROM: CDM /Powell Residence /SPARKS CONST. Qty: 1 DrwNo: 301.19.1524.20133 Truss Label: A10 / YK 10/28/2019 5'4"11 10'6"3 15'6" 21'2"9 26'9"6 32'6" 36'11"6 41'6"9 5'4"11 4'11"13 5'1"9 5'8"9 5'6"13 5'8"9 4'5"7 4'7°3 4'7°7 = 5X6 ≖3X4 =5X6 =5X6 8 / UT ¥ ≊5X6 =3X4 ≡3XB =4X6(B1) ± 5X6 =5¥5 =3X5(B1) N3X4 =3X4 32'8" 13'4" -- 2' -5'1"9 4'11"13 5'8"9 5'8"9 4'5"7 5'6"13 10'6"3 15'6' 36"11"6 Wind Criteria Snow Criteria (Pg,Pf in PSF) | Defl/CSI Criteria ▲ Maximum Reactions (lbs) Loading Criteria (psf) Wind Std: ASCE 7-10 TCLL: 20.00 Pg: NA Ct: NA CAT: NA TCDL: 10.00

BCLL:	0.00	En
BCDL:	10.00	Ris
Des Ld:	40.00	EX
NCBCLL		Me
Soffit:		TC BC
Load Dur	ation: 1.25	MV
Spacing:		C&
		Loc

Speed: 130 mph closure: Closed sk Category: If P: C Kzt: NA ean Height: 17.87 ft DL: 5.0 psf DL: 5.0 psf WFRS Parallel Dist: h to 2h C Dist a: 4.80 ft c. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60

Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

PP Deflection in loc	L/defl	L/#
VERT(LL): 0.148 F	999	240
VERT(CL): 0.295 F	999	180
HORZ(LL): 0.068 M	-	-
HORZ(TL): 0.136 M	-	-
Creep Factor: 2.0		
Max TC CSI: 0.503		
Max BC CSI: 0.877		
Max Web CSI: 0.646		

VIEW Ver: 18.02.01B.0321.08

	G	ravity	Non-Gravity					
Loc	R+	/ R-	/Rh	/Rw	/ U	/ RL		
В	1950	/-	/-	/1193	/17	/495		
М	1989	/-	/-	/1213	/-	/-		
Wind reactions based on MWFRS								
В	Brg W	/idth =	4.0	Min Red	1 = 2.3	3		

Min Req = 2.0 M Brg Width = 4.0 Bearings B & M are a rigid surface.

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.

B-C	443 - 2912	G-H	452	- 1996	
C-D	442 - 2616	H - I	415	- 2126	
D-E	433 - 2273	l - J	401	- 2278	
E-F	461 - 2026	J-K	348	-2169	
F-G	488 - 1995				

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3 :M2, M3, M4, M5, M6 2x4 SP #2: Filler 2x4 SP #2

(a) Continuous lateral restraint equally spaced on member

Plating Notes

All plates are 2X4 except as noted.

Laterally brace BC at 24" oc in lieu of rigid ceiling. Laterally brace BC above filler at 24" oc.

Wind loads based on MWFRS with additional C&C member design.

Right cantilever is exposed to wind

Additional Notes

Refer to General Notes for additional information WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

The overall height of this truss excluding overhang is

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	omp.	Chords	lens.	Comp.
B-Z	2339	- 338	U-T	1829	- 138
Z-Y	2338	- 338	T-S	1808	- 136
Y - X	2102	- 232	S-R	1808	- 136
X - W	1820	- 119	R-Q	1740	- 194
W - V	2033	- 105	Q-P	1740	- 194
V - U	1709	-57			

Maximum Web Forces Per Ply (lbs) Wahe Tone Comp Wahe

******	1011010	юр.	******		oop.
D-X	199	- 495	J-P	64	- 420
E-X	518	- 147	P-K	1695	- 171
E - W	435	- 113	K - M	331	- 1876
V - H	596	- 90			

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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SEQN: 564732 / HIPM Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T21 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20912 Truss Label: B01 / YK 10/28/2019 10'3"13 17'9"14 25'3"15 32'10' 39'6" 2'8" 7'7"13 7'6"1 6'8' 7'6"1 7'6"1 ≡3X4 C =7X10 =7X6 D =7X8 =8X12 ∥2X6 G W10 (a) 5'0"7 (a) W4 3'3"2 H ⊪3X6 0 ⊪4X10 N ⊪5X6 =8X8 K =6X6 ≡7X8 =5X10 **≡8X8** 33 6'6" 2'8" 7'7"13 7'6"1 7'6"1 7'6"1 6'8" 2'8" 10'3"13 17'9"14 25'3"15 32'10" 39'6'

Loading Criteria (psf)	Wind Criteria
TCLL: 20.00	Wind Std: ASCE 7-10
TCDL: 10.00	Speed: 130 mph
BCLL: 0.00	Enclosure: Closed
BCDL: 10.00	Risk Category: II
	EXP: C Kzt: NA
Des Ld: 40.00	Mean Height: 15.00 ft
NCBCLL: 10.00	TCDL: 5.0 psf
Soffit: 2.00	BCDL: 5.0 psf
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2
Spacing: 24.0 "	C&C Dist a: 3.95 ft
	Loc. from endwall: not in 4.50 ft
	GCpi: 0.18
	Wind Duration: 1.60

Defl/CSI Criteria Snow Criteria (Pg,Pf in PSF) Ct: NA CAT: NA PP Deflection in loc L/defl L/# Pg: NA Pf: NA Ce: NA VERT(LL): 0.195 D 999 240 VERT(CL): 0.391 D 999 180 Lu: NA Cs: NA Snow Duration: NA HORZ(LL): 0.043 B HORZ(TL): 0.087 B Code / Misc Criteria Creep Factor: 2.0 Bldg Code: FBC 2017 RES Max TC CSI: 0.439 TPI Std: 2014 Max BC CSI: 0.403 Rep Fac: Varies by Ld Case Max Web CSI: 0.967 FT/RT:20(0)/10(0) Plate Type(s): WAVE VIEW Ver: 18.02.01B.0321.08

Refer to General Notes for additional information

The overall height of this truss excluding overhang is

▲ Maximum Reactions (lbs) Non-Gravity Gravity ÍRL /Rh /Rw /U / R-Loc 0 3071 /-1-/795 /-4676 /-1-/1225 /-Wind reactions based on MWFRS O Brg Width = -Min Req = Brg Width = 4.0 Min Req = 3.9 Bearing I is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 535 - 2104 A-B D-E 1385 - 5361 B-C 1243 - 4788 E-F 872 - 3434 C-D 1385 - 5361

Maximum Bot Chord Forces Per Ply (lbs)

Chords

K-J

J - I

I-H

Webs

L-E

D-L

E-J

J - F

F-I

F-H

Tens. Comp.

Tens. Comp.

-917

-734

-734

- 551

-851

-4040

-226

3562

186

186

2149

392

703 -2018

4799 - 1247

1245

890

Lumber

Top chord 2x6 SP 2400f-2.0E :T1 2x4 SP #2: Bot chord 2x6 SP 2400f-2.0E Webs 2x4 SP #3 :W4 2x4 SP #2: ·W10 2x4 SP M-31

(a) Continuous lateral restraint equally spaced on member.

Special Loads

-(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) CLumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 30 plf at 0.00 to 30 plf at 39.5
BC: From 10 plf at 0.00 to 10 plf at 39.5
TC: 104 lb Conc. Load at 0.73
TC: 181 lb Conc. Load at 2.73, 4.73, 6.73, 8.73
10.73,12.73,14.73,16.73,18.73,20.73,22.73,24.73
26.73,28.73,30.73,32.73,34.73,36.73,38.73 0.00 to 30 plf at 0.00 to 10 plf at 39.50 39.50 BC: 157 lb Conc. Load at 0.73 BC: 159 lb Conc. Load at 2.73, 4.73, 6.73, 8.73 10.73,12.73,14.73,16.73,18.73,20.73,22.73,24.73 26.73,28.73,30.73,32.73,34.73,36.73,38.73

Hangers / Ties

(J) Hanger Support Required, by others

Right cantilever is exposed to wind

Wind loads and reactions based on MWFRS. End verticals not exposed to wind pressure.

No. 86367

STATE OF CORIDA CANAL ENGRAPERS

B - N 481 - 1354 B - M 3579 - 939 M - C 533 - 1315 C-L 578 - 127

Chords Tens.Comp.

1736 - 442

4870 - 1276

3562 - 917

Tens.Comp.

773 - 3045

2539 - 647

Maximum Web Forces Per Ply (lbs)

N - M

M-L

L-K

A - O

A - N

FL REG# 278, Yoonhwak Kim, FL PE #86367

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Additional Notes

5-0-7.

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

SEQN: 564735 / HIPM Ply: 1 Job Number: 19-3660 Cust: R 215 JRef 1WPQ2150004 T52 FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20070 Truss Label: B02 10/28/2019 13'11"14 7'6" 20'3"15 26'8"1 33'0"2 39'6" 7'6" 6'5"14 6'4"2 6'4"2 6'5"14 6'4"2 =3X4 C ≡5X5 D |||2X4 G ≢7X6 112X4 = 6<u>X</u>8 6'4"7 4X5 147 0 4X6 M #4X6 = 3X4 ≡5X5 =6X8 112X4 39'6" 7'6" 6'5"14 6'4"2 6'4"2 6'4"2 6'5"14 7'6 13'11"14 20'3"15 26'8"1 33'0"2 39'6'

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.155 D 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.311 D 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.051 H
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.101 H
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.616
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.777
Spacing: 24.0 "	C&C Dist a: 3.95 ft	Rep Fac: Yes	Max Web CSI: 0.820
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
Lumber		·	

efl/CSI Criteria			▲ M	axim	um Rea	actions ((ibs)		
Deflection in loc L	/defl L	_/#		G	Gravity		. No	on-Grav	vity
		240	Loc	R+	/ R-	/Rh	/Rw	/ U	/RL
100		180	N	1580	1-	/-	/913	/275	/142
DRZ(LL) 0.051 H		-	o	1580	,	/-	/826	/316	/-
DRZ(TL): 0.101 H	-	-	_			ased on	MWFRS	,0.0	•
eep Factor: 2.0			N	Brg V	Vidth =	-	Min Re	q = -	
ax TC CSI: 0.616			0			6.0	Min Re	q = 1.9	I
ax BC CSI: 0.777				_		gid surfa			
x Web CSI: 0.820							forces less		
							orces Per		•
			Cho	rds 7	ens.Co	omp.	Chords	Tens.	Comp.
EW Ver: 18.02.01B.0	1321 N		A - i	3	544 -	2086	D-E	626	- 2289
LVV V61. 10.02.01D.0	JJZ 1.0		B - (686 -	2368	E-F	626	- 2289
			-	_		2500		320	

Lumber

Top chord 2x4 SP #2 :T1 2x4 SP M-31: Bot chord 2x4 SP #2 Webs 2x4 SP #3

Bracing

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

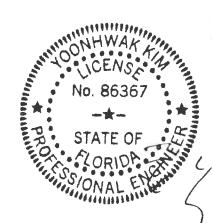
(J) Hanger Support Required, by others

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



mp. 289 289 723 - 2598

Chords	Tens.0	Comp.	Chords	Tens. Comp		
M - L	1643	- 519	J - I	1463	- 401	
L-K	2395	- 695	I-H	1463	-401	
K-J	2601	- 726				

Maximum Bot Chord Forces Per Ply (lbs)

Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens.Comp. Webs

A - N	409 - 1514	D-J	140	-437	
A - M	1575 - 322	J-F	1144	- 320	
B-L	1002 - 231	F-H	549	- 2005	
L-C	178 - 576				

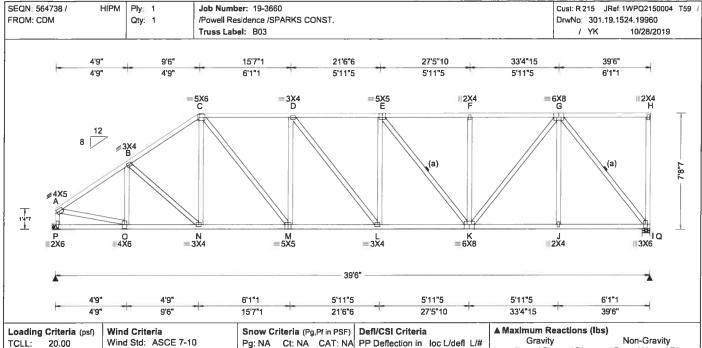
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BCDL: 10.00
Des Ld: 40.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Top chord 2x4 SP #2

10.00

0.00

Wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.95 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

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

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE PP Deflection in loc L/defl L/#
VERT(LL): 0.116 L 999 240
VERT(CL): 0.232 L 999 180
HORZ(LL): 0.046 l - - HORZ(TL): 0.092 l - Creep Factor: 2.0
Max TC CSI: 0.543
Max BC CSI: 0.633
Max Web CSI: 0.840

VIEW Ver: 18.02.01B.0321.08

В

C

	G	ravity		Non-Gravity						
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL				
Р	1580	/-	1-	/936	/266	/180				
Q	1580	/-	1-	/835	/321	/-				
Wir	Wind reactions based on MWFRS									
P Brg Width = -			-	Min Re	q = -					

P Brg Width = - Min Req = Q Brg Width = 6.0 Min Req = 1.9

Bearing Q is a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords Tens.Comp. Chords Tens. Comp.

1 - B	490 - 1976	D-E	600	-2113
3 - C	557 - 1961	E-F	504	- 1811
C - D	601 - 2031	F-G	504	- 1811

Bot chord 2x4 SP #2 Webs 2x4 SP #3

Lumber

TCDL:

BCLL:

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

(J) Hanger Support Required, by others

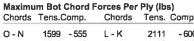
Wind

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

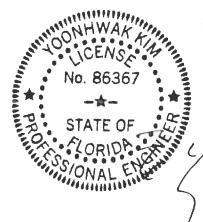
Refer to General Notes for additional information
The overall height of this truss excluding overhang is
7.8-7



O - N 1599 - 555 L - K 2111 - 600 N - M 1565 - 495 K - J 1137 - 317 M - L 2049 - 607 J - I 1137 - 317

Maximum Web Forces Per Ply (lbs)

vveos	rens.comp.	vveos	rens.	Comp.
A-P	386 - 1537	E-K	157	- 488
A - O	1593 - 341	K - G	1078	- 308
C - M	744 - 169	G - I	500	- 1791
M - D	152 -461			



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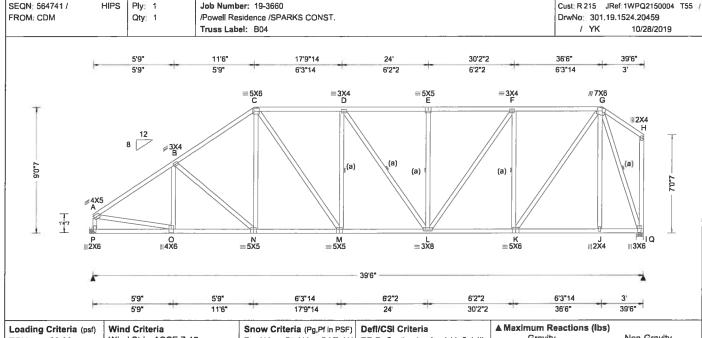
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For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com, TPI, www.tpinst.org, SBCA: www.sbcindustry.com, ICC www.iccsafe.org



TCLL:	20.00		Wind
TCDL:	10.00		Speed
BCLL:	0.00		Enclos
BCDL:	10.00		Risk C
Des Ld:	40.00		EXP:
NCBCLL			Mean
Soffit:			TCDL BCDL
	ration: 1.2	5	MWF
Spacing:	C&C		
opacing.	£-7.0		Loc. fr
			LUC. II

Std: ASCE 7-10 d: 130 mph sure: Closed Category: If C Kzt: NA Height: 15.00 ft : 5.0 psf 5.0 psf RS Parallel Dist: h/2 to h Dist a: 3.95 ft rom endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60

Ct: NA CAT: NA Pg: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

PP Deflection in loc L/defl L/# VERT(LL): 0.101 D 999 240 VERT(CL): 0.202 D 999 180 HORZ(LL): 0.036 I HORZ(TL): 0.072 I Creep Factor: 2.0 Max TC CSI: 0.534 Max BC CSI: 0.612 Max Web CSI: 0.831

VIEW Ver: 18.02.01B.0321.08

	GI	avity		Non-Gravity			
Loc	R+	/ R-	/ Rh	/Rw	/ U	/RL	
Р	1580	/-	/-	/948	/266	/166	
Q	1580	/-	/-	/817	/309	/-	
Win	d reac	tions ba	sed on M	IWFRS			
Р	Brg W	idth = -		Min Re	q = -		
Q	Brg W	idth = 6	5.0	Min Re	q = 1.9)	
Bea	ring Q	is a rigi	·.				
Mar		ant linta	d have fo		5	1754	

Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens. Comp. Chords Tens.Comp.

A-B	501 - 2040	D-E	542	- 1725
B - C	555 - 1902	E-F	542	- 1725
C-D	567 - 1790	F-G	428	- 1302

Webs 2x4 SP #3

Lumber

(a) Continuous lateral restraint equally spaced on member.

Hangers / Ties

Top chord 2x4 SP #2 Bot chord 2x4 SP #2

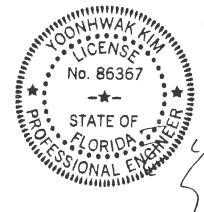
(J) Hanger Support Required, by others

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 0 - N 1636 - 521 L-K 1335 - 366 508 N - M 1499 - 431 K-J -134 M-L 1799 - 498 506 - 134

Maximum Web Forces Per Ply (lbs)

webs	rens.Comp.	vvebs	i ens.	Comp.
A - P	384 - 1530	F-K	332	- 994
A - O	1607 - 334	K - G	1375	- 383
C - M	502 - 117	G - I	413	- 1556
L - E	687 - 191			

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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SEQN: 564747 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T2 / FROM: CDM /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.19665 Qty: 1 Truss Label: B05 10/28/2019 / YK 6'9' 13'6" 20'6"9 27'5"6 34'6" 39'6" 6'9' 6'9" 7'0"9 6'10"13 7'0"9 =3X4 =5<u>X</u>5 II2X4 (a) (a) 7.07 T 0 1 3X6 M 4X6 = 5X5 =4X8 =5X5 =5X5 39'6" 6'10"13 13'6' 27'5"6 34'6 20'6"9 Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Dur	ation: 1.25
Spacing:	24.0 "

Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.95 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60

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

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

Defl/CSI Criteria

PP Deflection in loc	L/defl	L/#
VERT(LL): 0.085 D	999	240
VERT(CL): 0.170 D	999	180
HORZ(LL): 0.034 H	-	-
HORZ(TL): 0.067 H	-	-
Creep Factor: 2.0		
Max TC CSI: 0.770		
Max BC CSI: 0.698		
Max Web CSI: 0.989		

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs)

	G	ravity		No	on-Grav	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
N	1580	/-	1-	/957	/97	/205
0	1580	/-	/-	/822	/140	/-
Win	d read	tions b	ased on	MWFRS		
N	Brg W	/idth =	4.0	Min Re	q = 1.9	1
0	Brg W	/idth =	6.0	Min Re	q = 1.9)
Bea	rings I	1& 0a	re a rig	id surface.		
Men	nbers	not liste	ed have	forces less	than 3	375#
Maximum Top Chord Forces Per Ply (lbs)						
				Chords		

Official	r cha.comp.	Onorda	T CITICI	comp.
	499 - 2075	D-E		- 1349
M-D	499 - 2075	D - C	4/3	- 1349
A - B B - C	542 - 1828	E-F	473	- 1349
C - D	532 - 1572			

Chords

Tens. Comp.

692

- 172

-172

Maximum Bot Chord Forces Per Ply (lbs)

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

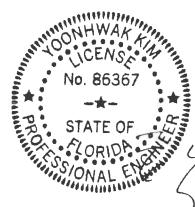
(a) Continuous lateral restraint equally spaced on member.

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 10-4-7.



Maximum Web Forces Per Ply (lbs)

Tens.Comp.

1650 - 503

1423 - 385

Chords

M-L

L-K

vvebs	rens.Comp.	vveos	rens. Comp.	
A - N	378 - 1522	E-J	195 -457	
A - M	1595 - 313	J-F	1142 - 320	
C-L	411 -79	F-H	386 - 1554	
D = J	122405			

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6750 Forum Drive Suite 305 Orlando FL, 32821

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

SEQN: 564750 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T26 / FROM: CDM Qtv: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.19710 Truss Label: B06 / YK 10/28/2019 39'6" = 3×4 #3X4 ||3X6 (a) (a) (a) ONM R = 3X4 = 5X5 = 7X6 || 2X4 || 2X6

	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
	TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
	TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.093 R 999 240
ı	BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.185 R 999 180
	BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.047 K
	Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.093 K
	NCBCLL: 10.00	Mean Height: 15.04 ft	Code / Misc Criteria	Creep Factor: 2.0
	Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.677
i	Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.588
	Spacing: 24.0 "	C&C Dist a: 3.95 ft	Rep Fac: Yes	Max Web CSI: 0.616
	opaomy. 2 mo	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
		GCpi: 0.18	Plate Type(s):	
		Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
ļ	Lumber		-	

5'2"

▲ M	laximu	ım Rea	ctions	(lbs)			
	G	ravity		No	n-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
W	1679	1-	/-	/1048	/97	/263	
Х	1578	/-	/-	/828	/102	/-	
Win	d read	tions b	ased o	n MWFRS			
W	Brg V	Vidth =	4.0	Min Re	q = 2.0)	
Х	Brg V	Vidth =	6.0	Min Reg = 1.9			
Bea	rings 1	W & X a	are a ri	gid surface.	•		
Mer	nbers	not liste	ed have	e forces less	than :	375#	
Max	dmum	Top C	hord F	orces Per	Plv (lb	s)	
Cho	rds T	ens.Co	mp.	Chords	Tens.	Comp.	
B - (С	464 -:	2005	F-G	484	- 1323	
C - I	D	608 -	2244	G-H	484	- 1324	
Ď - ĺ	E	570 -	1829	H - I	482	- 1236	

6'8"

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

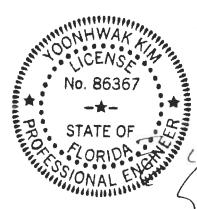
(a) Continuous lateral restraint equally spaced on memher

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 11-8-7.



5'8"

Maximum Web Forces Per Ply (lbs)

Maximum Bot Chord Forces Per Ply (lbs)

Chords	l ens.C	comp.	Chords	I ens.	Comp.
T-R	1803	-513	P-0	889	- 215
R-Q	1446	- 367	O - L	906	- 207
Q-P	1504	- 377			

Tens.Comp. Webs Tens. Comp. B-W 443 - 1633 E-R 532 - 149 B-V 1601 - 285 F-P 119 - 387 V - C 192 - 578 P-H 908 - 230 V-T 1617 - 493 L-1 218 - 522 T-D 392 - 100 1176 - 285 D-R 234 - 568 J-K 436 - 1513

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

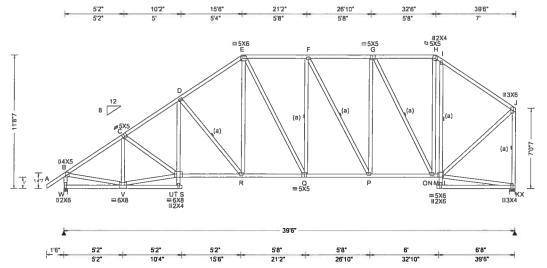
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SEQN 564757 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T28 / FROM: CDM /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20055 Qty: 1 Truss Label: B07 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.101 R 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.200 R 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.051 K
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.101 K
NCBCLL: 10.00	Mean Height: 15.70 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.774
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.592
Spacing: 24.0 "	C&C Dist a: 3.95 ft	Rep Fac: Yes	Max Web CSI: 0.643
opasing. 2 No	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

A M	axim	um Rea	ctions	(lbs)			
	0	Gravity		N	on-Gra	vity	
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL	
w	1679	/-	/-	/1079) /-	/297	
x	1578	<i>I-</i>	/-	/878	/-	/-	
Win	d rea	ctions ba	ased or	n MWFRS			
w	Brg \	Vidth =	4.0	Min Re	Min Req = 2.0		
	X Brg Width = 6.0			Min Reg = 1.9			
Bea	rings	W & X a	are a ri	gid surface			
Men	nbers	not liste	d have	forces les	s than	375#	
Max	imun	n Top C	hord F	orces Per	Ply (it	s)	
Cho	rds	Tens.Co	mp.	Chords	Tens.	Comp.	
B-0	3	190 - 2	2005	F-G	171	- 1330	
ا - c - ۱)	253 - 2	2244	G-H	200	-900	
D - I	Ε	219 -	1829	H-I	190	- 1304	
E . 0	=	203 -	1504	1 - 1	114	- 1130	

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

(a) Continuous lateral restraint equally spaced on member.

Plating Notes

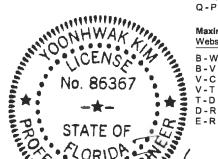
All plates are 3X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B-W F-P 244 - 1633 -380 B - V 1601 - 60 P-G 503 V-C 94 - 578 G - 0 9 - 929 1617 - 268 O - H 841

Maximum Bot Chord Forces Per Ply (lbs)

Chords

P-0

0-L

L-I

L-J

J-K

Tens. Comp.

0

- 18

-56

- 60

-680

- 1515

-12

1316

870

132

124

1177

Chords Tens.Comp.

1446 - 75

1504

391 -91

223 - 568

533 - 147

1803 - 215

T-R

R-Q

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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

SEQN: 564838 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T32 / FROM: CDM /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524,20522 Qty: 2 10/28/2019 Truss Label: 808 7'11"7 15'6" 21'2"9 26'9"6 32'6" 39'6" 5'8"9 5'6"13 5'8"9 #12X == 5X6 ≈ 6×6 II2X4 =5X5 (a) (a) (a) NML = 5X5 = 3X4 = 3X4 =6X8 3X6(A1) ^{|-1}JS ⊮3X4 =6X6 M2X4 M2X6

5'8"9

21'2°9

5'6"13

26'9"6

6'0"10

32'10"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.098 Q 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.194 Q 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.046 J
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.092 J
NCBCLL: 10.00	Mean Height: 16.37 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.727
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.805
Spacing: 24.0 "	C&C Dist a: 3.95 ft	Rep Fac: Yes	Max Web CSI: 0.446
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
Lumber	,		

7'6"9

15'6'

▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /Rw /U ÍRL / R-В 1685 /1081 /-/331 1572 /-/-/871 Wind reactions based on MWFRS Brg Width = 4.0 Min Req = 2.0 Brg Width = 6.0 Min Req = 1.9 Bearings B & S are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp B-C 197 - 2404 F-G 169 - 1307 180 - 1225 C-D 175 - 1863 G-H 98 - 1154 D-E 172 - 1493 H - I E-F 172 - 1493

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

(a) Continuous lateral restraint equally spaced on member.

1'6"

7'11"7

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 10-8-7.



Q-P 1440 - 107 N-K 904

1897 - 284

1895 - 284

Chords Tens.Comp.

B - R

R-Q

Maximum Bot Chord Forces Per Ply (lbs)

Chords

P - 0

0 - N

Tens. Comp.

0

0

0

1326

885

Maximum Web Forces Per Ply (lbs)								
Webs	Tens.C	Comp.	Webs	Tens.	Comp.			
C-Q	229	- 562	K-H	145	- 513			
D-Q	518	- 109	K-I	1171	0			
F-0	28	- 667	l - J	103	- 1506			
0 - G	894	- 21						

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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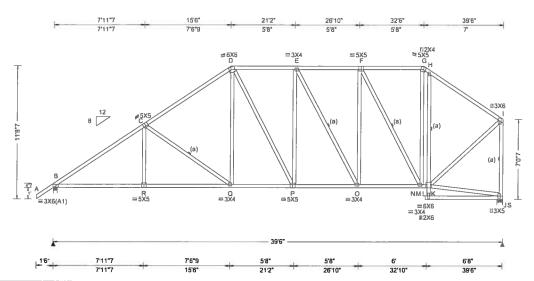
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SEQN: 564835 / HIPS Job Number: 19-3660 Ply: 1 Cust: R 215 JRef: 1WPQ2150004 T27 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.21224 Truss Label: B09 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.099 Q 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.196 Q 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.048 J
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.096 J
NCBCLL: 10.00	Mean Height: 17.70 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.727
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.807
Spacing: 24.0 "	C&C Dist a: 3.95 ft	Rep Fac: Yes	Max Web CSI: 0.627
' '	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

	▲ Ma	aximı	ım Rea	ctions	(lbs)		
		G	ravity		N	ion-Gra	vity
0	Loc	R+	/ R-	/Rh	/Rw	/ U	/ RL
0	В	1685	/-	/-	/1054	1/3	/399
	S	1572	/-	/-	/838	/-	/-
	Wind	d read	tions b	ased or	MWFRS		
	В	Brg V	Vidth =	4.0	Min Re	eq = 2.0	0
	S	Brg V	Vidth =	6.0	Min Re	eq = 1.	9
	Bear	rings I	B&Sa	re a rig	id surface.	•	
	Меп	bers	not list	ed have	forces les	s than	375#
	Max	imun	Top C	hord F	orces Per	Ply (Ib	es)
	Chor	rds T	ens.Co	mp.	Chords	Tens.	Comp.
┪	B - C		357 -	2404	F-G	325	- 906
_	C - E)	336 -	1863	G-H	271	- 1225
	D-E		374 -	1492	H-I	191	- 1154
	E-F	:	371 -	1320			

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Bracing

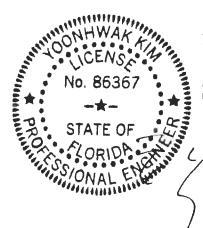
(a) Continuous lateral restraint equally spaced on member.

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.C	Comp.	Chords	Tens.	Comp.
B - R	1897	- 390	P-0	1492	- 165
R-Q	1895	- 390	O - N	1307	- 106
Q-P	1439	- 211	N - K	904	-71

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.		
C-Q	228	- 562	N - G	676	- 97	
D-Q	515	- 110	K - H	148	-511	
E-0	164	- 396	K-1	1170	- 109	
0 - F	536	- 138	l - J	216	- 1507	
F-N	49	- 895				

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

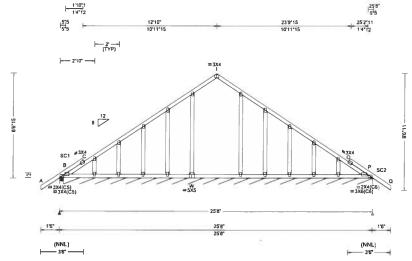
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

SEQN: 564860 / GABL Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T11 / FROM: CDM /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.21021 Qty: 1 Truss Label: C01 10/28/2019 / YK



Loading Criteria (psf) Wind Criteria		Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria		
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#		
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.006 I 999 240		
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.008 I 999 180	١	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.007 K	l	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.009 K	,	
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	1	
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.193	Ľ	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.115	!	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.134	1	
-,	Loc. from endwall: Any	FT/RT:20(0)/10(0)			
	GCpi: 0.18	Plate Type(s):			
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	ĺ	

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /Rw /U / RL / R-В 306 /174 /15 /288 /-P* 77 /-/-/40 /16 Wind reactions based on MWFRS Brg Width = 4.0 Min Req = 1.5Brg Width = 304 Min Req = -Bearings B & B are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3 Stack Chord SC1 2x4 SP #2: :Stack Chord SC2 2x4 SP #2:

Plating Notes

All plates are 2X4 except as noted.

In lieu of structural panels use purlins to brace TC @ 24" oc.

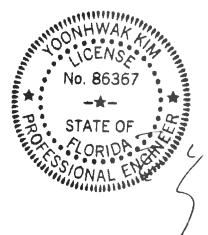
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6

The overall height of this truss excluding overhang is 8-6-15.



FL REG# 278, Yoonhwak Kim, FL PE #86367

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SEQN: 564863 / COMN Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T1 FROM: CDM Qty: 5 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20880 Truss Label: C02 / YK 10/28/2019 6'7"7 12'10° 19'0"9 25'8' 6'2"9 6'7"7 6'2°9 =4X4 D =5X5 = 5X5 25'8" 1'6" 16'11"11 25'8° Loading Criteria (psf) Wind Criteria Snow Criteria (Pg,Pf in PSF) **Defl/CSI Criteria** ▲ Maximum Reactions (Ibs) Wind Std: ASCE 7-10 Non-Gravity Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/#

Louding	Officeria (par)				
TCLL:	20.00				
TCDL:	10.00				
BCLL:	0.00				
BCDL:	10.00				
Des Ld:	40.00				
NCBCLL:	10.00				
Soffit:	2.00				
Load Duration: 1.25					
Spacing:	24.0 "				

Top chord 2x4 SP #2

Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18

Wind Duration: 1.60

Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

VERT(LL): 0.058 H 999 240 VERT(CL): 0.106 H 999 180 HORZ(LL): 0.025 H HORZ(TL): 0.045 H Creep Factor: 2.0 Max TC CSI: 0.383 Max BC CSI: 0.815 Max Web CSI: 0.358

VIEW Ver: 18.02.01B.0321.08

	Loc	R+	/ R-	/Rh	/Rw	/ U	/ RL		
	В	1212	/-	/-	/667	/194	/291		
	F	1213	/-	<i>I</i> -	/667	/194	/-		
	Wind reactions based on MWFRS								
	B Brg Width = 4.0			0 1	Min Red	1.5			
	F	Brg W	idth = 4.	0 1	Vin Red	1.5			
i	Bearings B & F are a rigid surface.								
	Members not listed have forces less than 375#								
	Max	imum	Top Ch	ord Force	s Per l	Ply (lbs)		
	Cho	rds T	ens.Com	p. Ch	ords	Tens. (Comp.		

413 - 1616 D-E 485 - 1453

B-C 413 - 1617 C-D 486 - 1452 E-F

Bot chord 2x4 SP #2 Webs 2x4 SP #3 Loading

Lumber

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

Wind loads based on MWFRS with additional C&C member design.

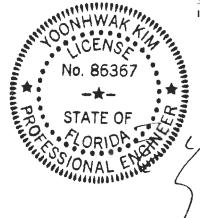
Refer to General Notes for additional information The overall height of this truss excluding overhang is

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

1260 - 201 B - I 1261 852

Maximun	n Web	Forces	Per	Ply	(lbs)
Wahe '	Tone C	omn	M	ahe	Te

Webs	Tens.Comp.	Webs	Tens.	Comp.
1 - D	620 - 203	D-H	622	- 203



FL REG# 278, Yoonhwak Kim, FL PE #86367

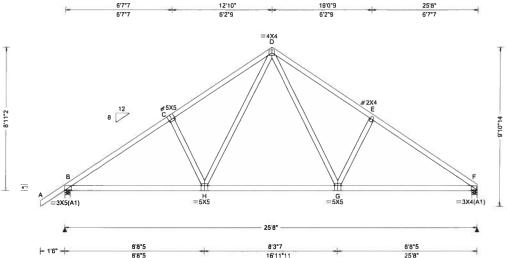
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SEQN: 564866 / COMN Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T13 / FROM: CDM Qty: 6 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.21083 Truss Label: C03 / YK 10/28/2019 12'10" 19'0"9 25'8'



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15.00 ft	Snow Criteria (Pg.Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.057 H 999 240 VERT(CL): 0.105 H 999 180 HORZ(LL): 0.025 G HORZ(TL): 0.046 G Creep Factor: 2.0	- 1
NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h/2 to h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Max TC CSI: 0.420 Max BC CSI: 0.841 Max Web CSI: 0.277	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	J

▲ M	axim	um Rea	ctions	(lbs)		
Gravity			N	Non-Gravity		
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
В	1215	/-	/-	/667	/195	/271
F	1112	/-	/-	/582	/167	/-
Win	d rea	ctions b	ased or	MWFRS		
В	Brg \	Width =	4.0	Min Re	q = 1.5	5
F	Brg \	Width =	4.0	Min Re	q = 1.5	i
Bea	rings	B&Fa	re a rig	id surface.		
Men	nbers	not liste	ed have	forces les	s than 3	375#
Max	imur	n Top C	hord F	orces Per	Ply (lb	s)
				Chords		Comp.
B - 0	,	306 -	1622	D-E	391	- 1471
2 - 1	_	372 -		E-F	324	- 1634

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

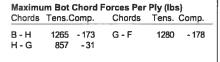
Loading

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

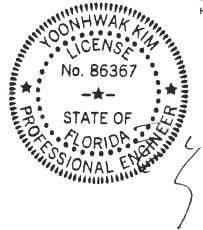
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. 619 - 148 D - G 641 - 157



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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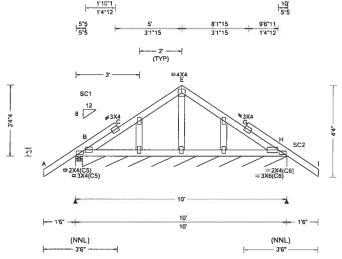
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SEQN: 564868 / GABL Ply: 1 Job Number: 19-3660 Cust R 215 JRef 1WPQ2150004 T7 / /Powell Residence /SPARKS CONST. FROM: CDM Qty: 1 DrwNo: 301.19,1524.19757 Truss Label: D01 / YK 10/28/2019



Loading Criteria (psf) TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA		PP Deflection in loc L/defl L/# VERT(LL): 0.001 J 999 240 VERT(CL): 0.003 J 999 180 HORZ(LL): 0.001 G -	
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	HORZ(TL): 0.001 G Creep Factor: 2.0 Max TC CSI: 0.193 Max BC CSI: 0.071 Max Web CSI: 0.030 VIEW Ver: 18.02.01B.0321.08	

▲ Maximum Reactions (It Gravity				Non-Gravity		
Loc	R+	/ R-	/Rh	/Rw	/ U	/ RL
В	246	/-	/-	/174	/45	/142
H*	77	/-	/-	/45	/13	/-
Win	d rea	ctions b	ased on	MWFRS		
В	Brg V	Vidth =	4.0	Min Re	q = 1.5	5
H Brg Width = 115			Min Re	Min Reg = -		
Bea	rings	В&Ва	re a rigid	surface.	•	
Men	nhers	not liste	ed have f	orces less	s than :	375#

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3 :Stack Chord SC1 2x4 SP #2: :Stack Chord SC2 2x4 SP #2:

Plating Notes

All plates are 2X4 except as noted.

In lieu of structural panels use purlins to brace TC @ 24" oc.

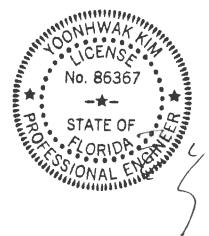
Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information See DWGS A14015ENC101014 & GBLLETIN0118 for gable wind bracing and other requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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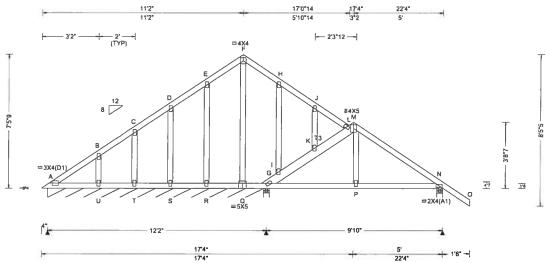
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SEQN: 564871/ COMN Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T12 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.21676 Truss Label: G01 10/28/2019



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF	Defl/CSI Criteria	▲ Maximum Reactions	(lbs), or *=PLF
TCLL: 20.00 Wind Std: ASCE 7-10	Pa: NA Ct: NA CAT: N	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00 Speed: 130 mph	Pf; NA Ce: NA	VERT(LL): 0.007 J 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00 Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.017 J 999 180	A* 82 /- /-	/54 /8 /20
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.005 K	G 449 /- /-	/341 /126 /-
Des Ld: 40.00 EXP: C Kzt: NA		HORZ(TL): 0.011 K	N 456 /- /-	/313 /81 /-
NCBCLL: 10.00 Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on	MWFRS
Contract Con	Bldg Code: FBC 2017 RES	Max TC CSI: 0.193	A Brg Width = 144	Min Req = -
BCDE, 3.0 psi	TPI Std: 2014	Max BC CSI: 0.256	G Brg Width = 4.0	Min Req = 1.5
INVITIO LABINE DISE O (O 1)/2	Rep Fac: Yes	Max Web CSI: 0.186	N Brg Width = 4.0	Min Req = 1.5
Spacing: 24.0 " C&C Dist a: 3.00 ft		Wax Web CSI. 0.166	Bearings A, G, & N are a	rigid surface.
Loc. from endwall: Any	FT/RT:20(0)/10(0)		Members not listed have	forces less than 375#
GCpi: 0.18	Plate Type(s):		Maximum Top Chord Fo	orces Per Plv (lbs)
Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	Chords Tens.Comp.	

Lumber

Top chord 2x4 SP #2 :T3 2x6 SP 2400f-2.0E: Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Left cantilever is exposed to wind

Full Height Blocking reinforcement required to prevent buckling of members over the bearings: bearing 2 located at 12.3'

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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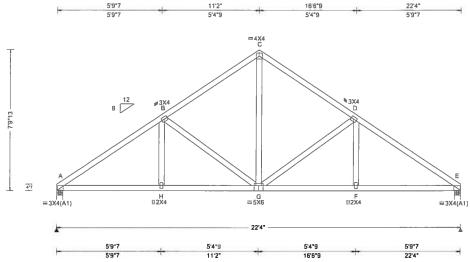


243 - 470

G-I

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

SEQN: 564882 / COMN Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T22 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.21771 Truss Label: G02 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	T
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	1
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.034 G 999 240	
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.069 G 999 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.017 F	ı
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.034 F	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	ŀ
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.315	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.415	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.340	
' '	Loc. from endwall: Any	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	

▲ M	axin	num Rea	ctions	(lbs)							
Gravity Non-Gravity											
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL					
Α	893	1-	/-	/506	/146	/206					
E	893	/-	/-	/506	/146	/-					
Win	d rea	actions b	ased or	MWFRS							
Α	Brg	Width =	4.0	Min Re	eq = 1.5	i					
Ε	Brg	Width =	4.0	Min Re	eq = 1.5	i					
Bea	rings	A & E a	re a rig	id surface.							
Mer	nber	s not liste	ed have	forces les	s than 3	375#					
Max	imu	m Top C	hord F	orces Per	Ply (lb:	s)					
Cho	rds	Tens.Co	mp.	Chords	Tens.	Comp.					
		200	4000	<u> </u>	220	207					
A - I	_		1283	C-D	338	-897					
B - (0	338 -	- 897	D-E	368	- 1283					

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Wind

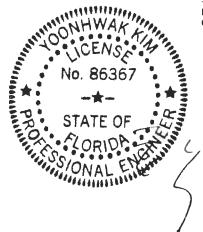
Wind loads based on MWFRS with additional C&C member design

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 7-9-13.

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. A - H 996 - 221 G-F 994 - 221 H - G 994 - 221 F-E 996 - 221

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. B-G 211 -404 G-D 211 - 404 C-G 589 - 231



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

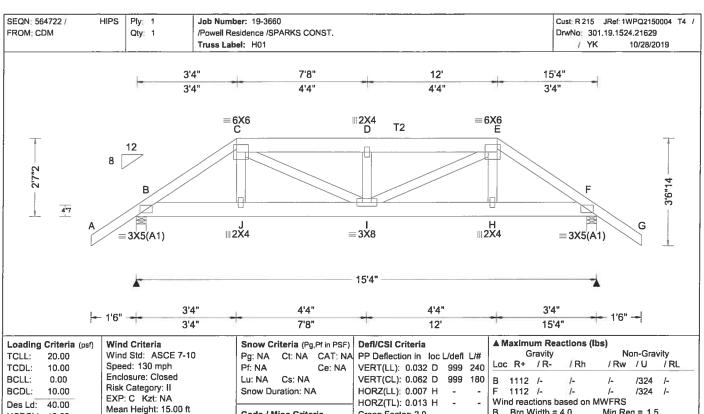
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For more information see this job's general notes page and these web sites: ALPINE: www.lpineitw.com; TPI: www.lpinst.org, SBCA: www.sbcindustry.com, ICC. www.iccsafe.org



Soffit:

Top chord 2x4 SP #2 T2 2x6 SP 2400f-2.0E Bot chord 2x6 SP 2400f-2.0E Webs 2x4 SP #3

Special Loads

NCBCLL: 10.00

Spacing: 24.0 "

Load Duration: 1.25

2.00

•													
(Lumb	er	Dur	.Fa	ac.=1	.25	/P	lat	e Du	r.Fa	ac.=	1.25	i)
TC:	From		60	plf	at	-1.	.50	to	60	plf	at	3	.33
TC:	From		30	plf	at	3.	.33	to	30	plf	at	12	.00
TC:	From		60	plf	at	12.	.00	to	60	plf	at	16	.83
BC:	From	1	5	plf	at	-1	.50	to	5	plf	at	0	.00
BC:	From	l	20	plf	at	0	.00	to		plf		3	.36
BC:	From	1	10	plf	at	3.	.36	to		plf		11	.97
BC:	From	1	20	plf	at	11.	.97	to	20	plf	at	15	.33
BC:	From	1	5.	plf	at	15.	.33	to	5	plf	at	16	.83
TC:	170	lb	Con	ıc.	Load	at	3.	36,	11.9	7			
	71										.94,	9.94	1
BC:					Load								
BC:	57	lb	Cor	ıc.	Load	at	5.	40,	7.40), 7	.94,	9.94	ŀ

TCDL: 5.0 psf

BCDL: 5.0 psf

C&C Dist a: 3.00 ft

Wind Duration: 1.60

MWFRS Parallel Dist: 0 to h/2

Loc. from endwall: not in 4.50 ft

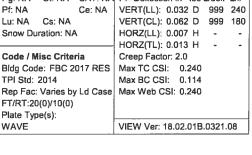
GCpi: 0.18

Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-7-2.



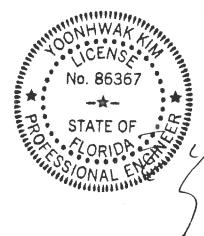
Brg Width = 4.0 Min Reg = 1.5 Brg Width = 4.0 Min Req = 1.5 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 455 - 1545 517 - 1829 B - C D-E C-D 517 - 1829 455 - 1545

Maximum Bot Chord Forces Per Ply (lbs)

Chords	lens.C	omp.	Chords	Tens. Comp.		
B-J	1250	- 363	1 - H	1264	- 361	
J - I	1264	- 361	H-F	1250	- 363	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.		
C-1	630 - 173	I-F	630 - 173		



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWINGI

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

Code / Misc Criteria

TPI Std: 2014

Plate Type(s):

WAVE

FT/RT:20(0)/10(0)

6750 Forum Drive Suite 305 Orlando FL, 32821

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

SEQN: 564744 / HIPS Ply: 2 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T25 // /Powell Residence /SPARKS CONST FROM: CDM DrwNo: 301.19.1524.20802 Qty: 1 Truss Label: H02 / YK 10/28/2019 2 Complete Trusses Required 4'1" 7'0"12 11'3" 15'4" 4'1' 4'1" 2'11"12 4'2"4 ∥2X4 D **■8X14** C #6X8 E T2 3'1"2 47 H ⊪3X10 III 2 X 4 =7x8 =4X6(A1) 15'4" 4'1' 2'11"12 4'2"4 4'1" - 1'6" --- 1'6" --4'1" 7'0"12 11'3' 15'4" Loading Criteria (nsf) Wind Criteria Snow Criteria (Pg,Pf in PSF) Defl/CSI Criteria ▲ Maximum Reactions (lbs) Pa: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Gravity Non-Gravity Loc R+ /R-/ RL /Rh /Rw /U Pf: NA VERT(LL): 0.064 D 999 240 Ce: NA

wind Criteria
Wind Std: ASCE 7-10
Speed: 130 mph
Enclosure: Closed
Risk Category: II
EXP: C Kzt: NA
Mean Height: 15.00 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria

Bldg Code: FBC 2017 RES

TPI Std: 2014

FT/RT:20(0)/10(0)

Rep Fac: No

Plate Type(s):

WAVE

VERT(CL): 0.126 D 999 180 HORZ(LL): 0.016 H HORZ(TL): 0.032 H Creep Factor: 2.0 Max TC CSI: 0.393 Max BC CSI: 0.491 Max Web CSI: 0.915 VIEW Ver: 18.02.01B.0321.08

В 3649 /-/819 /-/-5523 /-/-/-/1126 /-Wind reactions based on MWFRS Brg Width = 4.0 Min Reg = 1.5 Brg Width = 4.0 Min Reg = 2.3 Bearings B & F are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. B - C 662 - 2979 D-E 935 - 4245

Lumber

Top chord 2x4 SP #2 :T2 2x6 SP 2400f-2.0E: Bot chord 2x6 SP 2400f-2.0E Webs 2x4 SP #3

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 2 Rows @ 6.00" o.c. (Each Row) Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Special Loads

(Lumber	Dur.Fac	c.=1.25	/ Plate	Dur.Fac.=1	.25)
TC: From	60 plf a	at -1.		60 plf at	16.83
BC: From	5 plf a	at -1.	50 to	5 plf at	0.00
BC: From	20 plf a	at 0.		20 plf at	7.06
BC: From	10 plf a	at 7.	06 to	10 plf at	13.06
BC: From	20 plf a	at 13.	06 to	20 plf at	15.33
BC: From	5 plf a	at 15.	33 to	5 plf at	16.83
BC: 3071 lb	Conc. L	Load at	7.06		
BC: 1580 lb	Conc. L	_oad at	9.06,11	1.06,13.06	

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 3-1-2.



Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.	Chords	Tens. Comp.		
B-J	2459 - 541	I-H	3537	-716	
J - I	2454 - 539	H-F	3444	- 701	

852 -4151

Maximum Web Forces Per Ply (lbs)

935 - 4245

Webs 1	ens.Co	mp.	Webs	Tens.	Comp.
C-I I-E		530	H - E	1688	- 271

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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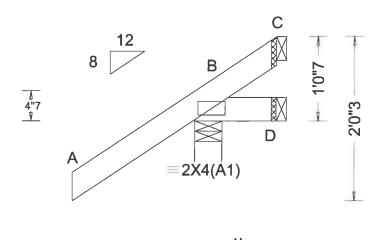
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For more information see this job's ceneral notes page and these web sites. ALPINE: www.sloinst.org. SBCA: www.sbcindustry.com; ICC. www.iccsafe



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

SEQN: 564714 / JACK Job Number: 19-3660 Ply: 1 Cust. R 215 JRef. 1WPQ2150004 T6 / FROM: CDM Qty: 6 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.19866 Truss Label: J01 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (lbs)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ /R- /Rh /Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 246 /- /- /210 /67 /47
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 D	D 6 /-15 /- /18 /19 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 D	C - /-54 /- /35 /63 /-
NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Mean Height: 15.00 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0)	Creep Factor: 2.0 Max TC CSI: 0.176 Max BC CSI: 0.026 Max Web CSI: 0.000	Wind reactions based on MWFRS B Brg Width = 4.0 Min Req = 1.5 D Brg Width = 1.5 Min Req = - C Brg Width = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375#
	GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 18.02.01B.0321.08	

1'6"

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 1-0-7.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

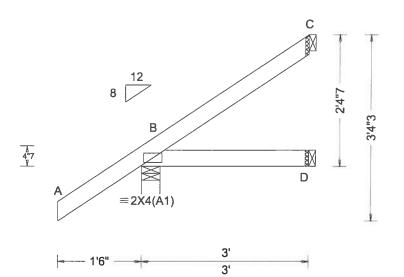
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 564716 / JACK Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T5 / FROM: CDM /Powell Residence /SPARKS CONST. Qty: 6 DrwNo: 301.19.1524.20303 Truss Label: J02 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (II	os)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10,00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 254 /- /-	/192 /35 /85
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 D	D 50 /- /-	/40 /2 /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 D	C 60 /- /-	/27 /31 /-
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on N	/WFRS
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.191	B Brg Width = 4.0	Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.075	D Brg Width = 1.5	Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSi: 0.000	C Brg Width = 1.5	Min Req = -
opasing. 2 m	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Bearing B is a rigid surface Members not listed have for	
	GCpi: 0.18	Plate Type(s):		Weimbers not listed have it	irces less triall 3/3#
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-4-7.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

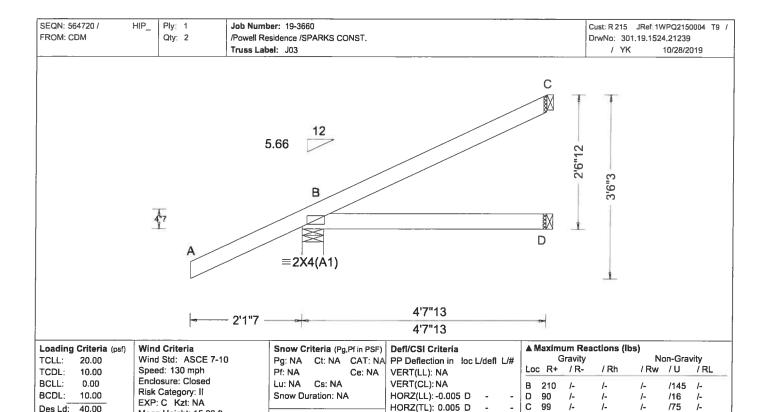
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Soffit:

Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Special Loads

NCBCLL: 10.00

Spacing: 24.0 "

Load Duration: 1.25

2.00

(Lumber	Dur.Fac.=	1.25 / Plate	Dur.Fac.=	1.25)
TC: From	0 plf at	-2.12 to	60 plf at	0.00
TC: From				
BC: From	0 plf at	-2.12 to		0.00
BC: From	2 plf at	0.00 to	2 plf at	4.65
TC: -41 lb				
TC: 120 lb	Conc. Loa	d at 4.24		
BC: 13 lb	Conc. Loa	d at 1.41		
BC: 100 lb	Conc. Loa	d at 4.24		

Mean Height: 15.00 ft

C&C Dist a: 3.00 ft

Wind Duration: 1.60

MWFRS Parallel Dist: 0 to h/2

Loc. from endwall: not in 4.50 ft

GCpi: 0.18

TCDL: 5.0 psf

BCDL: 5.0 psf

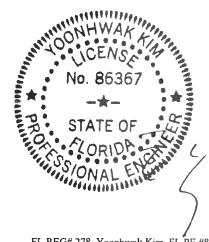
Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



Creep Factor: 2.0

Max TC CSI: 0.166

Max BC CSI: 0.195

Max Web CSI: 0.000

VIEW Ver: 18.02.01B.0321.08

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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Code / Misc Criteria

TPI Std: 2014

Plate Type(s):

WAVE

FT/RT:20(0)/10(0)

Bldg Code: FBC 2017 RES

Rep Fac: Varies by Ld Case

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6750 Forum Drive Suite 305 Orlando FL, 32821

Wind reactions based on MWFRS

Members not listed have forces less than 375#

Min Req = 1.5

Min Req = -

Min Req = -

Brg Width = 4.9

Brg Width = 1.5

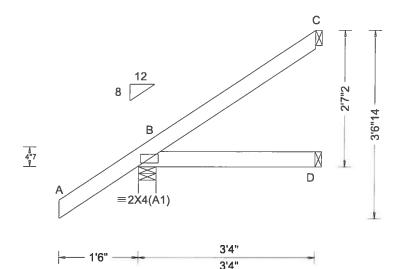
Brg Width = 1.5

Bearing B is a rigid surface.

В

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

SEQN: 564718 / EJAC Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 TB / FROM: CDM Qty: 6 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20350 Truss Label: J04 10/28/2019



Loading Criteria (psf) Wind Criteria	Snow Cr	riteria (Pg.	Pf in PSF)	Defl/CSI Criteria	ı		A N	laximu	ım Reac	tions (lb	s)		
TCLL: 20.00 Wind Std: ASC	E 7-10 Pg: NA	Ct: NA	CAT: NA	PP Deflection in	loc L/de	efi L/#		G	ravity		No	n-Grav	/ity
TCDL: 10.00 Speed: 130 mp			Ce; NA	VERT(LL): NA			Loc	: R+	/ R-	/Rh	/Rw	/ U	/ RL
BCLL: 0.00 Enclosure: Clos		Cs: NA		VERT(CL): NA			В	264	/-	/-	/197	/34	/91
BCDL: 10.00 Risk Category:	I SHOW DO	ration: NA	A	HORZ(LL): 0.001	ID -	-	D	57	<i>I</i> -	1-	/44	/0	<i>I</i> -
Des Ld: 40.00 EXP: C Kzt: N				HORZ(TL): 0.002	2 D -	-	С	71	/-	/-	/34	/36	/-
NCBCLL: 10.00 Mean Height: 15 TCDL: 5.0 psf	Code / M	lisc Crite	ria	Creep Factor: 2.0)		Wir			sed on M			
Soffit: 2.00 BCDL: 5.0 psf	Bldg Cod	le: FBC 2	017 RES	Max TC CSI: 0.	.191		В		/idth = 4		Min Re		
Load Duration: 1.25 MWFRS Paralle	PI Dist: 0 to h/2 TPI Std:	2014		Max BC CSI: 0.	.099		D	_	/idth = 1.		Min Red	•	
Spacing: 24.0 " C&C Dist a: 3.0	D E	Yes		Max Web CSI: 0.	.000		C	•	/idth = 1.	.5 I surface.	Min Red	q = -	
·	all: not in 4.50 ft FT/RT:20	0(0)/10(0)					1	-	•	have for		than 3	75#
GCpi: 0.	.18 Plate Typ	e(s):					14161	110613	IOI HOICE	11046 101	CC3 C33	i i i i i i i	ı u n
Wind Duration:	1.60 WAVE			VIEW Ver: 18.02.	.01B.032	21.08							

Lumber

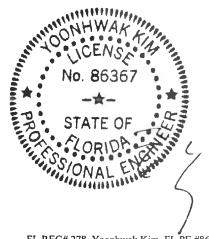
Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 2-7-2.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

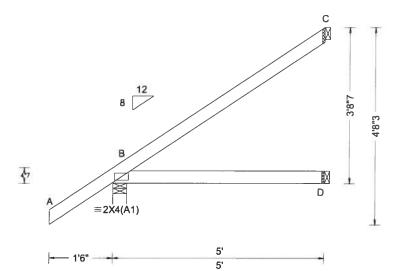
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trussesA seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

6750 Forum Drive Suite 305 Orlando FL, 32821





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	1
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	l
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.004 D	
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.007 D	ŀ
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	ı
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.308	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.251	I.
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Ľ
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Ľ
	GCpi: 0.18	Plate Type(s):] '
,	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	
Lumber	•			4

A (Vlaxim	um Rea	actions (î	bs)		
	0	aravity		N	on-Gra	vity
Lo	c R+	/ R-	/ Rh	/Rw	/ U	/ RL
В	321	/-	/-	/231	/31	/123
D	90	/-	1-	/64	/-	/-
С	123	/-	/-	/67	/59	/-
Wi	nd read	ctions b	ased on I	WFRS		
В	Brg V	Vidth =	4.0	Min Re	q = 1.	5
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	q = -	
Bea	aring B	is a ric	id surface	e.		
Me	mbers	not list	ed have fo	orces les	s than	375#

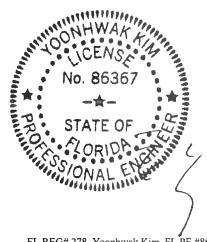
Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trussesA seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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



SEQN: 564769 / HIP_ Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T35 / FROM: CDM /Powell Residence /SPARKS CONST Qty: 1 DrwNo: 301.19.1524,20398 Truss Label: J06 / YK 10/28/2019 5'2"1 9'10" 5'2"1 4'7"15 D **∌3X4** 5.66 5'0" 5 E 3X4 F ∥2X4 = 2X4(A1) 5'2"1 4'7"15 — 2'2"3 — 5'2"1 9'10" ▲ Maximum Reactions (lbs)

Loa	ding Criteria (psf)	Wind Criteria	Snow C	ri teria (Pg	,Pf in PSF)	Defl/CSI Criteria			ŀ
TCL	.L: 20.00	Wind Std: ASCE 7-10	Pg: NA	Ct: NA	CAT: NA	PP Deflection in loc	L/defl	L/#	
TCE	DL: 10.00	Speed: 130 mph	Pf: NA		Ce: NA	VERT(LL): 0.011 F	999	240	
BCL	.L: 0.00	Enclosure: Closed	Lu: NA	Cs: NA		VERT(CL): 0.022 F	999	180	П
BCC	DL: 10.00	Risk Category: II	Snow Du	ration: NA	Α	HORZ(LL): 0.004 E	-	-	Н
Des	Ld: 40.00	EXP: C Kzt: NA				HORZ(TL): 0.008 E	_	-	
NCE	BCLL: 10.00	Mean Height: 15.00 ft	Code / N	lisc Crite	ria	Creep Factor: 2.0			1
Soff	it: 2.00	TCDL; 5.0 psf BCDL: 5.0 psf	Bidg Cod	ie: FBC 2	017 RES	Max TC CSI: 0.566)		H
	d Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std:	2014		Max BC CSI: 0.548	3		Ľ
	cing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac:	Varies by	v Ld Case	Max Web CSI: 0.310)		Ľ
Opa	g	Loc. from endwall: not in 4.50 ft	FT/RT:20)(0)/10(0)					Ľ
1		GCpi: 0.18	Plate Typ						П
		Wind Duration: 1.60	WAVE	(-)		VIEW Ver: 18.02.01	3.0321	.08	

Gravity Non-Gravity Loc R+ / R-/Rh /Rw /U /RL В 355 /-/-/221 /-F /-1-/-1_ 337 /89 76 D /-/-/-1-/23 Wind reactions based on MWFRS Brg Width = 4.9 Min Req = 1.5 В Brg Width = 1.5 Min Req = -Brg Width = 1.5 Min Reg = -Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

> B-C 225 - 528

Webs 2x4 SP #3 **Special Loads**

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Dur.Fac.=	1.25 / Plate	Dur.Fac.=	1.25)
0 plf at	-2.18 to	60 plf at	0.00
2 plf at	0.00 to	2 plf at	9.83
0 plf at	-2.18 to	4 plf at	0.00
2 plf at	0.00 to	2 plf at	9.83
Conc. Load	f at 1.41		
	0 plf at 2 plf at 0 plf at 2 plf at	0 plf at -2.18 to 2 plf at 0.00 to 0 plf at -2.18 to	2 plf at 0.00 to 2 plf at 0 plf at -2.18 to 4 plf at 2 plf at 0.00 to 2 plf at

120 lb Conc. Load at 4.24 247 lb Conc. Load at 7.07 13 lb Conc. Load at 1.41 100 lb Conc. Load at 4.24 TC: BC: BC: 180 lb Conc. Load at 7.07

Wind loads and reactions based on MWFRS.

Additional Notes

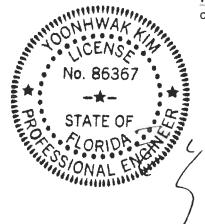
Refer to General Notes for additional information The overall height of this truss excluding overhang is 5-0-1.

Provide (3) 16d common 0.162"x3.5", toe-nails at TC. Provide (3) 16d common 0.162"x3.5", toe-nails at BC.



Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

192 - 551



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

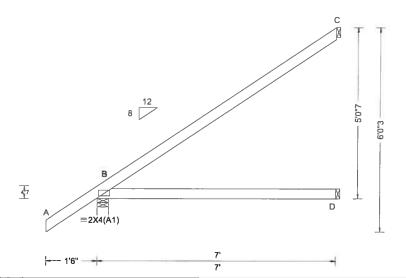
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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For more information see this job's general notes page and these web sites. ALPINE: www.isingtor.or. SRCA: www.sbindustry.com. ICC. www.iccsafe

6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 564726 / EJAC Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T43 / FROM: CDM Qtv: 21 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20196 Truss Label: J07 / YK 10/28/2019



	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg.Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ib	s)
	TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
-	TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): NA	Loc R+ /R- /Rh	/Rw /U /RL
ı	BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): NA	B 396 /- /-	/277 /29 /161
	BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.013 D	D 129 /- /-	/90 /1 /-
	Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.026 D	C 181 /- /-	/101 /86 /-
	NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on M	
ł	Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.703	B Brg Width = 4.0	Min Req = 1.5
	Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.517	D Brg Width = 1.5 C Brg Width = 1.5	Min Req = - Min Req = -
	Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.000	Bearing B is a rigid surface	
		Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Members not listed have for	
-		GCpi: 0.18	Plate Type(s):		I I I I I I I I I I I I I I I I I I I	TOOL TOOL THAT OF OTT
		Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

Lumber

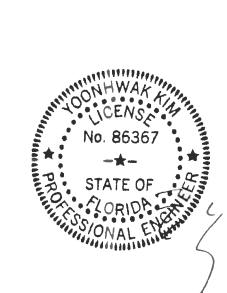
Top chord 2x4 SP #2 Bot chord 2x4 SP #2

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 5-0-7.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367

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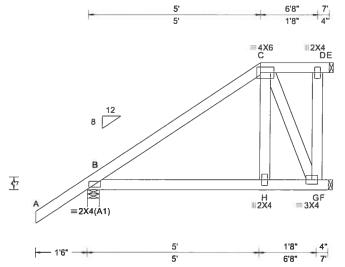
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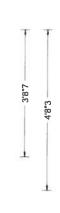
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trussesA seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this lob's ceneral notes page and these web sites. ALPINE: www.eloinetw.com; TPI: www.ipinstorg, SBCA: www.sbcindustry.com; ICC: www.iccsafe



SEQN: 564724 / Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T34 / FROM: CDM /Powell Residence /SPARKS CONST. Qtv: 1 DrwNo: 301.19.1524.20366 Truss Label: J7A / YK 10/28/2019





Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	T
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	-
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 H 999 240)
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.005 H 999 180)
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.002 H	İ
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.004 H	
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.210	
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.205	1
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.090	l
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		ŀ
	GCpi: 0.18	Plate Type(s):		╛
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	1
Lumber				

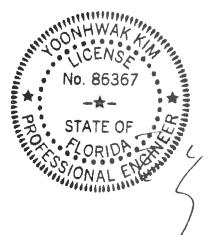
▲ M	axim	um Rea	ictions (i	bs)		
	G	ravity		No	on-Gra	vity
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
В	396	/-	/-	/280	/52	/123
F	157	/-	/-	/98	/38	/-
Ε	104	/-	/-	/62	/30	/-
Wine	d read	ctions b	ased on I	MWFRS		
В	Brg V	Vidth =	4.0	Min Re	q = 1.5	5
F	Brg V	Vidth =	1.5	Min Re	q = -	
		Vidth =		Min Re	q = -	
Bear	ring B	is a rig	id surfac	е.	•	
				orces les	s than	375#

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Wind loads based on MWFRS with additional C&C member design.

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367

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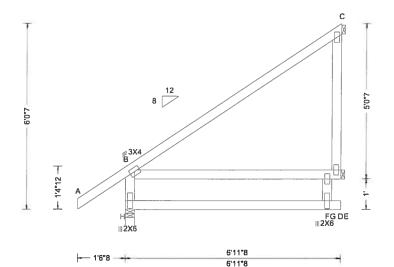
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For more information see this job's general notes page and these web sites. ALPINE: www.sleineitw.com, TPI: www.tpinsNCTPI.1 Sec.2.

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For more information see this job's general notes page and these web sites. ALPINE: www.lpinetw.com, TPI: www.lpinst.org, SBCA: www.sbcindustry.com, ICC: www.lccsafe.org

SEQN: 564890 / MONO Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T3 / FROM: CDM /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20646 Qty: 1 Truss Label: J08 / YK 10/28/2019



Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

All plates are 2X4 except as noted.

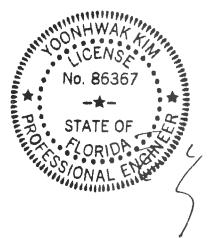
Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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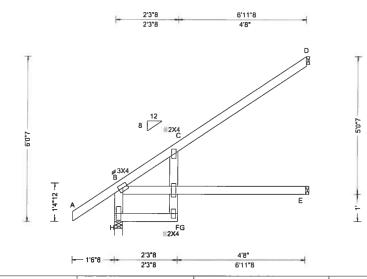
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For more information see this job's general notes page and these web sites. ALPINE: www.binsto.org. SBCA: www.sbcindusty.com.ICC_www.iccsafe



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

SEQN: 564892 / EJAC Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T45 / FROM: CDM Qty: 5 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20788 Truss Label: J09 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	l
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.109 C 764 240	l.
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.211 C 396 180	
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.074 C	l
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.143 C	ı
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	1
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.543	
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.705	ı
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.435	l
John St. 2 110	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		
	GCpi: 0.18	Plate Type(s):		ľ
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08	

A.	Maxim	um Rea	ictions (II	os)		
1	G	ravity		No	on-Grav	/ity
Lo	R+	/ R-	/Rh	/Rw	/ U	/ RL
Н	514	/-	/-	/392	/136	/-
E	128	/-	/185	/98	/15	/147
D	38	/-31	/185	/34	/20	/174
Wi	nd read	ctions b	ased on N	/WFRS		
H	Brg V	Vidth =	3.5	Min Re	q = 1.5	
E	Brg V	Vidth =	1.5	Min Re	q = -	
D	Brg V	Vidth =	1.5	Min Re	q = -	
Be	aring H	l is a rig	id surface	.		
Me	mbers	not liste	ed have fo	rces less	s than 3	375#
Ma	ximun	Top C	hord For	ces Per	Ply (lb:	s)
Ch	ords 1	ens.Co	mp.		- •	•

B-C 170 - 390

Maximum Web Forces Per Ply (ibs) Webs Tens.Comp.

B - H 264 - 469

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

All plates are 2X6 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 6-0-7.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWINGI

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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

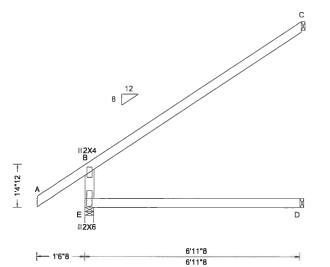
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trussesA seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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

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

SEQN: 564894 / EJAC Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T44 / FROM: CDM Qty: 10 /Powell Residence /SPARKS CONST. DrwNo: 301,19,1524,21348 Truss Label: J10 10/28/2019 / YK



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 B 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 B 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 B
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.002 B
NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.846
Load Duration: 1.25	MWFRS Parallel Dist: h/2 to h	TPI Std: 2014	Max BC CSI: 0.600
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.092
-Fg	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

▲ M	laxim	um Rea	ctions (lbs)		
	G	ravity		No	on-Grav	vity
Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL
E	412	/-	/-	/325	/138	/-
D	159	/-	/-	/93	/-	/-
С	198	/-	1-	/83	/-	/161
Win	d read	ctions b	ased on I	MWFRS		
Е	Brg V	Vidth =	3.5	Min Re	q = 1.5	
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	q = -	
Bearing E is a rigid surface.						
Mer	nbers	not liste	d have f	orces less	than 3	175#

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

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

Wind loads based on MWFRS with additional C&C

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is 6-0-7.

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

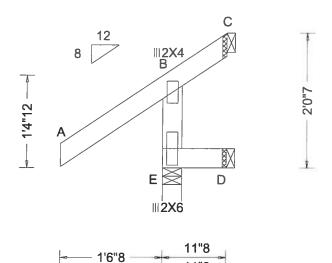
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI.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

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

6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 564896 /	JACK	Ply:	1	Job Number: 19-3660	Cust: R	215 .	JRef: 1WPQ2150004	T42 /
FROM: CDM		Qty:	2	/Powell Residence /SPARKS CONST.	DrwNo:	301.1	19.1524.19555	1
				Truss Label: J11	1	YK	10/28/2019	



Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (I	bs)
TCLL: 20.00 Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00 Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 B 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00 Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 B 999 180	E 218 /- /-	/217 /88 /-
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 B	H = - 717 1 1	/13 /- /-
Des Ld: 40.00 EXP: C Kzt: NA	-	HORZ(TL): 0.000 B	C - /-52 /-	/64 /93 /47
NCBCLL: 10.00 Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on N	
Soffit: 2.00 BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.186	E Brg Width = 3.5	Min Req = 1.5
Load Duration: 1.25 MWFRS Parallel Dist: () to h/2 TPI Std: 2014	Max BC CSI: 0.009	D Brg Width = 1.5 C Bra Width = 1.5	Min Req = - Min Reg = -
Spacing: 24.0 " C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.083	Bearing E is a rigid surface	
Loc. from endwall: Any	FT/RT:20(0)/10(0)		Members not listed have for	
GCpi: 0.18	Plate Type(s):			
Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

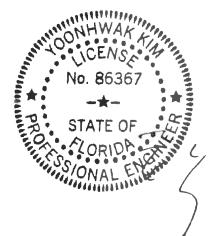
Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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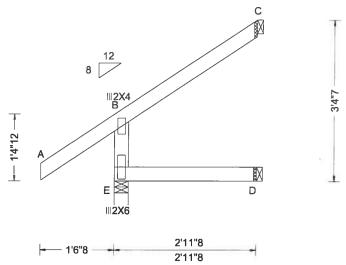
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SEQN: 564898 / JACK Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T41 / FROM: CDM Qty: 2 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.19617 Truss Label: J12 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 B 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 B 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.000 B
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.203
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.107
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.076
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

AB	/laxim	um Re	actions (l	bs)		
	G	ravity		N	on-Gra	vity
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Ε	244	/-	/-	/221	/92	/-
D	59	/-	/-	/40	/-	/-
С	63	/-	/-	/55	/22	/85
Wi	nd read	ctions b	ased on I	MWFRS		
Е	Brg V	Vidth =	3.5	Min Re	q = 1.5	5
D	Brg V	Vidth =	1.5	Min Re	q = -	
С	Brg V	Vidth =	1.5	Min Re	q = -	
Bea	aring E	is a rig	gid surfac	e.	•	
Me	mbers	not list	ed have f	orces less	s than	375#

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

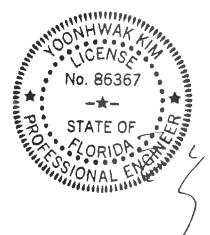
Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367

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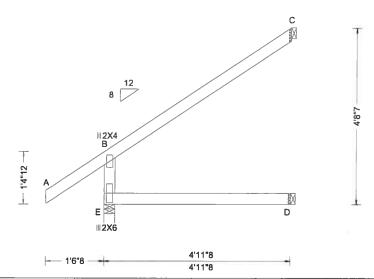
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SEON: 564900 / JACK Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T40 / FROM: CDM Qty: 2 /Powell Residence /SPARKS CONST. DrwNo: 301,19.1524.19962 Truss Label: J13 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ibs	5)
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 B 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 B 999 180		/270 /114 /-
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 B	D 99 /- /-	/66 /- /-
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.001 B	C 133 /- /-	/68 /- /123
NCBCLL: 10.00	Mean Height: 15.00 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on M	
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.363		Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.305	, ,	Min Req = -
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.085		Min Req = -
' ' '	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		Bearing E is a rigid surface. Members not listed have for	
	GCpi: 0.18	Plate Type(s):		Members not listed have for	ces less than 375#
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

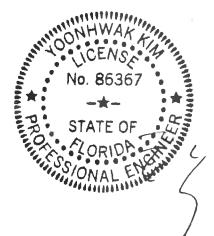
Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (2) 16d common 0.162"x3.5", toe-nails at TC. Provide (2) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367

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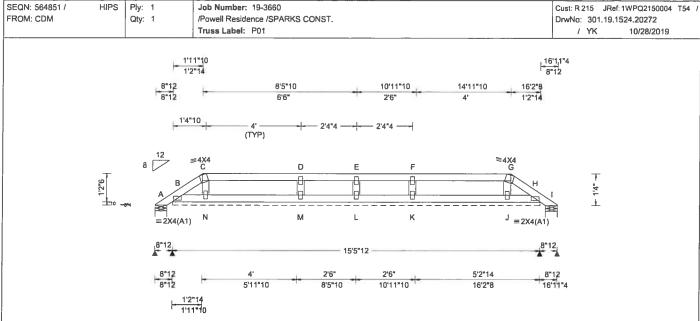
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For more information see this job's general notes page and these web sites. ALPINE: www.alpineitw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.000 D 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.000 J
Des Ld: 40.00	EXP: C Kzt: NA		HORZ(TL): 0.000 J
NCBCLL: 10.00	Mean Height: 15.70 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.198
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.090
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.046
	Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
Lumber			

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity						
Loc	R+	,	/Rh		/ U	/ RL
		7 TX-	7 (3)	7 1 1 1 1	-, -	7 132
Α	21	/-	/-	/26	/11	/34
В*	82	/-	/-	/37	/4	/-
1	21	/-	/-	/14	/-	/-
Win	d read	ctions ba	ased on I	MWFRS		
Α	Brg V	Vidth =	5.9	Min Re	q = 1.9	5
В	Brg V	Vidth =	185	Min Re	q = -	
1	Brg V	Vidth = :	5.9	Min Re	q = 1.	5
Bearings A, B, & I are a rigid surface.						
				orces less		375#

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

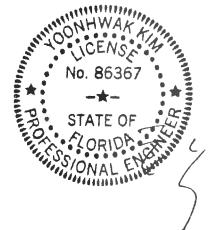
Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details. The overall height of this truss excluding overhang is 1-4-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

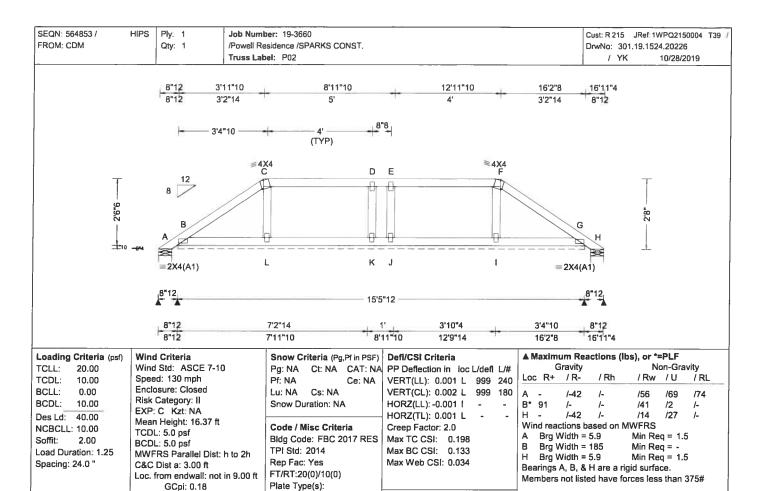
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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



Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

All plates are 2X4 except as noted.

Wind

Wind loads based on MWFRS with additional C&C member design.

Wind Duration: 1.60

Additional Notes

Refer to General Notes for additional information
Refer to DWG PB160101014 for piggyback details.
The greatly height of this trues expliciting evertages.

The overall height of this truss excluding overhang is 2-8-0.



VIEW Ver: 18.02.01B.0321.08

FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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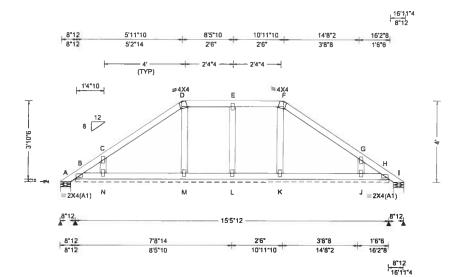
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WAVE

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6750 Forum Drive Suite 305 Orlando FL, 32821





Loading Criteria (psf) Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (II	os), or *=PLF
TCLL: 20.00 Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 10.00 Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.000 E 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00 Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.001 E 999 180	A 33 /- /-	/71 /52 /113
BCDL: 10.00 Risk Category: II	Snow Duration: NA	HORZ(LL): 0.001 G	12. 27 1 1	/40 /- /-
Des Ld: 40.00 EXP: C Kzt: NA		HORZ(TL): 0.001 G	I 33 /- /-	/19 /1 /-
NCBCLL: 10.00 Mean Height: 17.04 ft TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0	Wind reactions based on M	
Soffit: 2.00 BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.181	A Brg Width = 5.9	Min Req = 1.5
Load Duration: 1.25 MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.097	B Brg Width = 185	Min Req = -
Spacing: 24.0 " C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.053	l Brg Width = 5.9	Min Req = 1.5
Loc. from endwall: not in 9.00 f	FT/RT:20(0)/10(0)		Bearings A, B, & I are a rig	
GCpi: 0.18	Plate Type(s):		Members not listed have fo	rces less than 3/5#
Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		ĺ

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

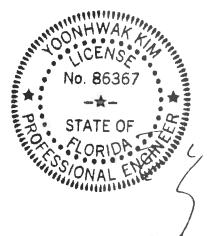
All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 4-0-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

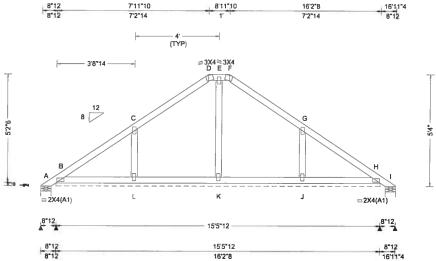
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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN: 564857 / HIPS Ply: 1 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T53 / FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1524.20896 Truss Label: P04 / YK 10/28/2019



Loading Criteria (psf) TCLL: 20.00	Wind Criteria Wind Std: ASCE 7-10	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/#	▲ Maximum Reactions (Ib Gravity	s), or *=PLF Non-Gravity
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.003 D 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00 BCDL: 10.00	Enclosure: Closed Risk Category: II EXP: C Kzt: NA	Lu: NA Cs: NA Snow Duration: NA	VERT(CL): 0.007 D 999 180 HORZ(LL): 0.003 F	B* 89 /- /-	/95 /105 /152 /44 /- /-
Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 " DEXP: C KZt: NA Mean Height: 17.70 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	HORZ(TL): 0.004 F Creep Factor: 2.0 Max TC CSI: 0.144 Max BC CSI: 0.110 Max Web CSI: 0.068	B Brg Width = 185	Min Req = 1.5 Min Req = - Min Req = 1.5 d surface.	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08		

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

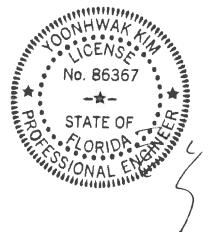
Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details. The overall height of this truss excluding overhang is 5-4-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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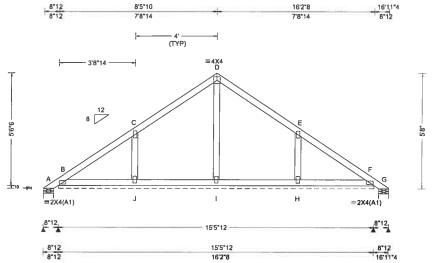
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For more information see this job's general notes page and these web sites ALPINE: www.alpineitw.com, TPI: www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

Job Number: 19-3660 SEQN: 564848 / SPEC Ply: 1 Cust: R 215 JRef 1WPQ2150004 T33 FROM: CDM /Powell Residence /SPARKS CONST. Qty: 7 DrwNo: 301.19.1524.21052 Truss Label: P05 / YK 10/28/2019



Loading	Criteria (psf)
TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00
Load Dura	ation: 1.25
Spacing: 2	24.0 "
1	

Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.87 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft

Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60

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

Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE

Defl/CSI Criteria

PP Deflection in loc L/defl L/# VERT(LL): 0.001 J 999 240 VERT(CL): 0.002 J 999 180 HORZ(LL): 0.001 E HORZ(TL): 0.002 E Creep Factor: 2.0 Max TC CSI: 0.197 Max BC CSI: 0.107 Max Web CSI: 0.077

VIEW Ver: 18.02.01B.0321.08

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity

L	oc R+	/ R-	/ Rh	/Rw	/ U	/RL
Α	-	/-23	/- /- /-	/105	/115	/168
В	* 88	/-	/-	/45	/-	/-
G	-	/-23	1-	/12	/22	/-
l sa	lind	b		MAIEDO		

Wind reactions based on MWFRS Brg Width = 5.9 Min Rea = 1.5Brg Width = 185 Min Req ≈ -Brg Width = 5.9 Min Reg = 1.5

Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

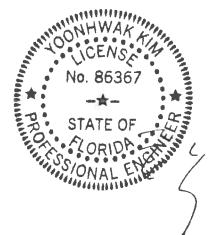
Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

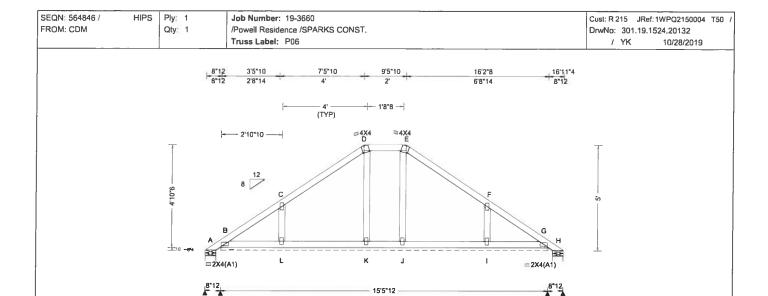
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9'5"10

13'5"10

Coading Criteria (pst)	Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 17.54 ft TCDL: 5.0 psf BCDL: 5.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 13.00 ft GCpi: 0.18 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE	Defi/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.000 D 999 240 VERT(CL): 0.001 D 999 180 HORZ(LL): 0.001 F HORZ(TL): 0.002 F Creep Factor: 2.0 Max TC CSI: 0.182 Max BC CSI: 0.119 Max Web CSI: 0.060 VIEW Ver: 18.02.01B.0321.08
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08

7'5"10

2'8"14

3'5"10

A M	▲ Maximum Reactions (lbs), or *=PLF								
	G	ravity		N	on-Gra	vity			
Loc	R+	/ R-	/Rh	/Rw	/υ	/ RL			
Α	13	/-	/-	/90	/81	/147			
B*	83	/-	1-	/42	/-	/-			
Н	13	/-	/-	/8	/-	/-			
L		/-133							
1		/-133							
Win	d read	ctions ba	ased on N	/WFRS					
Α	Brg V	Vidth = :	5.9	Min Re	q = 1.5	5			
В	Brg V	Vidth =	Min Re	q = -					
Н	Brg V	Vidth =	Min Re	q = 1.5	5				
Bea	rings .	A, B, &	H are a ri	gid surfa	ce.				
Mer	Members not listed have forces less than 375#								

2'8"14

Lumber

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is



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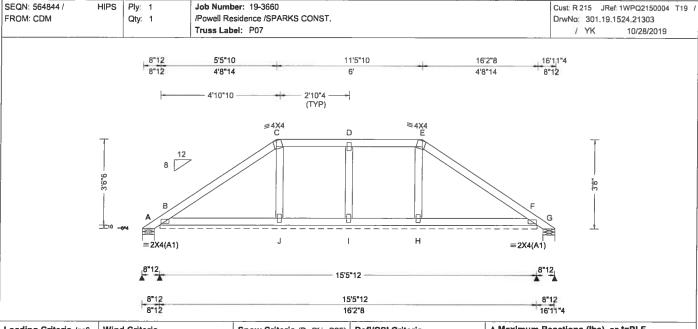
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Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.002 J 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.004 J 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.001 H
Des Ld: 40.00	EXP: C Kzt; NA		HORZ(TL): 0.003 H
NCBCLL: 10.00	Mean Height: 16.87 ft	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	TCDL: 5.0 psf BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.242
Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.168
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.057
	Loc. from endwall: not in 13.00 ft	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
Lumber		·	

▲ Maximum Reactions (lbs), or *=PLF Gravity Non-Gravity Loc R+ /Rh /Rw /RL / R-/ U /-152 /93 /164 /106 В* 105 /47 /-152 /-/34 /104 Wind reactions based on MWFRS Brg Width = 5.9 Min Reg = 1.5 Brg Width = 185 Min Reg = -Brg Width = 5.9 Min Req = 1.5 Bearings A, B, & G are a rigid surface. Members not listed have forces less than 375#

Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

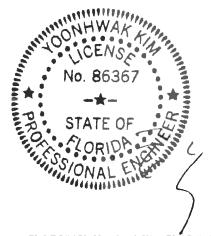
Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details. The overall height of this truss excluding overhang is



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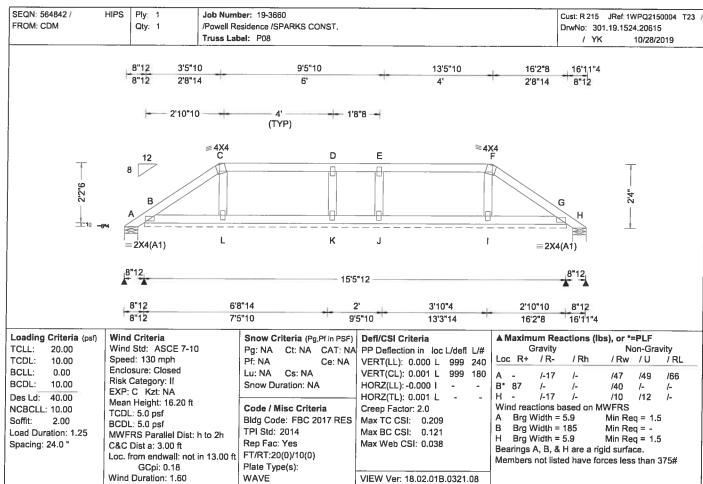
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Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Plating Notes

All plates are 2X4 except as noted.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details.

The overall height of this truss excluding overhang is 2-4-0.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

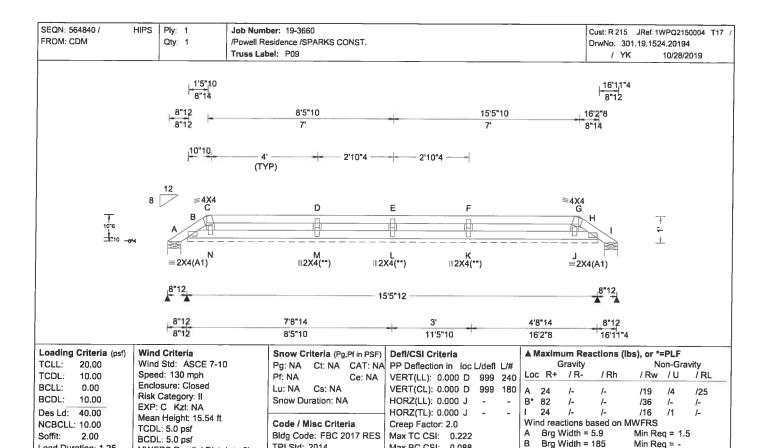
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Top chord 2x4 SP #2 Bot chord 2x4 SP #2 Webs 2x4 SP #3

Load Duration: 1.25

Spacing: 24.0 "

Plating Notes

All plates are 2X4 except as noted.

(**) 3 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

MWFRS Parallel Dist: h to 2h

GCpi: 0.18

Loc. from endwall: not in 13.00 ft

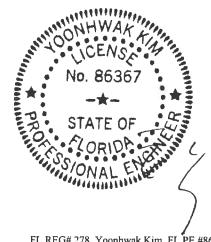
C&C Dist a: 3.00 ft

Wind Duration: 1.60

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information Refer to DWG PB160101014 for piggyback details. The overall height of this truss excluding overhang is 1-0-0.



Max BC CSI: 0.088

Max Web CSI: 0.047

VIEW Ver: 18.02.01B.0321.08

Brg Width = 5.9

Bearings A, B, & I are a rigid surface.

Members not listed have forces less than 375#

Min Req = 1.5

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TPI Std: 2014

Rep Fac: Yes

Plate Type(s):

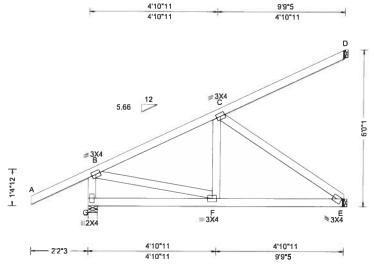
WAVE

FT/RT:20(0)/10(0)

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SEQN: 564924 HIP_ Job Number: 19-3660 Ply: 1 Cust: R 215 JRef: 1WPQ2150004 T24 FROM: CDM Qty: 1 /Powell Residence /SPARKS CONST. DrwNo: 301.19.1532.27460 Truss Label: J14 / YK 10/28/2019



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defi/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 10.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.007 F 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.013 F 999 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): -0.002 D
Des Ld: 40.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.004 D
NCBCLL: 10.00	TCDL: 5.0 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 2.00	BCDL: 5.0 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.692
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.615
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Varies by Ld Case	Max Web CSI: 0.357
	Loc. from endwall: NA	FT/RT:20(0)/10(0)	
	GCpi: 0.18	Plate Type(s):	
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02.01B.0321.08
Lumber			

▲ Maximum Reactions (lbs) Non-Gravity Gravity Loc R+ /R-/Rh /Rw /U / RL G 366 /159 /-375 /12 /-D 94 /-/18 /-Wind reactions based on MWFRS Brg Width = 4.2 Min Req = 1.5 Brg Width = 1.5 Min Req = -Min Req = -Brg Width = 1.5 Bearing G is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp.

B-C 84 - 459

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

F-E 410

Maximum Web Forces Per Ply (lbs) Webs Webs Tens.Comp. Tens. Comp. B-F C-E 35 - 509

Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #3;

Special Loads

(Lumber	Dur.Fac.=1	1.25 / Plate	Dur.Fac.=	1.25)
TC: From				
TC: From	2 plf at	0.00 to	2 plf at	9.78
BC: From	0 plf at	-2.18 to	4 plf at	0.00
BC: From	2 plf at	0.00 to	2 plf at	9.78
TC: -36 lb	Conc. Load	lat 1.41	•	
TC: 131 lb	Conc. Load	d at 4.24		
TC: 271 lb	Conc. Load	d at 7.07		
BC: 40 lb	Conc. Load	d at 1.41		
BC: 120 lb	Conc. Load	d at 4.24		
BC: 200 lb	Conc. Load	d at 7.07		

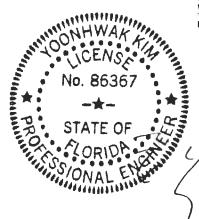
Wind

Wind loads and reactions based on MWFRS.

Additional Notes

Refer to General Notes for additional information The overall height of this truss excluding overhang is

Provide (3) 16d common 0.162"x3.5", toe-nails at TC. Provide (3) 16d common 0.162"x3.5", toe-nails at BC.



FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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

6750 Forum Drive Suite 305 Orlando FL, 32821

SEQN: 564928 COMN Ply: 2 Job Number: 19-3660 Cust: R 215 JRef: 1WPQ2150004 T36 FROM: CDM /Powell Residence /SPARKS CONST. Qty: 1 DrwNo: 301.19.1532.32953 Page 1 of 2 Truss Label: A01 10/28/2019 2 Complete Trusses Required 9'10" 16'6"14 23'2" 29 34'10"4 411 47'11"8 2'10' 6'8"14 6'7"2 5'10" 5'10"4 6'1"12 6'11"8 =6X6 =7<u>x</u>8 **∥2X4** =7X6 G $\equiv 3X4$ #/6X8 12 ≥4X6 W4 T5 W8 RP ∥2X4 = 6X6 4X5(A1) O ≡6X10 N ≡7X6 M ⊪5X6 =8X10 ⊪2X6 1113X5 9'10" 38'1"8 2'10" 6'8"14 6'7"2 5'10' 5'10"4 6'1"12 6'11"8 1'6"8 9'10' 16'6"14 23'2' 29 34'10"4 41 47'11"B Loading Criteria (psf) Wind Criteria **Defl/CSI Criteria** ▲ Maximum Reactions (lbs) Snow Criteria (Pg,Pf in PSF) TCLL: 20.00 Wind Std: ASCE 7-10 Gravity Non-Gravity Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Loc R+ ÍRL Speed: 130 mph /Rh /Rw /U TCDL: 10.00 Pf: NA Ce: NA VERT(LL): 0.153 G 999 240 Enclosure: Closed BCLL: 0.00 Lu: NA Cs: NA VERT(CL): 0.313 G 999 180 В /--Risk Category: II BCDL: 10.00 HORZ(LL): 0.031 J Snow Duration: NA 5750 /-/-/743 /-EXP: C Kzt: NA HORZ(TL): 0.065 J 3712 /-/-/79 /-Des Ld: 40.00 Mean Height: 15.00 ft Wind reactions based on MWFRS Code / Misc Criteria Creep Factor: 2.0 NCBCLL: 0.00 TCDL: 5.0 nsf R Brg Width = 4.0 Min Reg = 1.5 Soffit: 2.00 Bldg Code: FBC 2017 RES Max TC CSI: 0.531 BCDL: 5.0 psf Brg Width = 4.0 Min Req = 2.4 TPI Std: 2014 Max BC CSI: 0.211 Load Duration: 1.25 MWFRS Parallel Dist: 0 to h/2 Brg Width = 3.5 Min Req = 1.5 Rep Fac: No Max Web CSI: 0.790 Spacing: 24.0 " C&C Dist a: 4.80 ft Bearings B, T, & L are a rigid surface. FT/RT:20(0)/10(0) Loc. from endwall: NA Members not listed have forces less than 375# GCpi: 0.18 Plate Type(s): Maximum Top Chord Forces Per Ply (lbs) Wind Duration: 1.60 WAVE VIEW Ver: 18.02.01B.0321.08 Chords Tens.Comp. Chords Lumber B-C 388 - 108 F-G 0 - 3544Top chord: 2x6 SP 2400f-2.0E; T1,T5 2x4 SP #2; Bot chord: 2x6 SP 2400f-2.0E; 0 - 3287 C-D 673 - 173 G-H D-E 0 - 1905H - I0 - 3056 Webs: 2x4 SP #3; W4,W8 2x4 SP #2; E-F 0 - 35561 - J 15 - 2563 Nailnote Maximum Bot Chord Forces Per Ply (lbs) Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c.

Bot Chord: 1 Row @12.00" o.c.

Webs : 1 Row @ 4" o.c.

Use equal spacing between rows and stagger nails Chords Tens.Comp. Chords Tens. Comp. 162 3087 0 S-P 1990 N - M 2093 in each row to avoid splitting. Maximum Web Forces Per Ply (lbs) Webs Tens.Comp. Webs Tens. Comp. Wind loads and reactions based on MWFRS. C-T 193 - 778 G - O10 - 569 152 - 1885 T-D H-N -615 1 **Additional Notes** D-S 2723 - 93 N - I 1316 n Refer to General Notes for additional information 38 - 1333 S-E M - J2074 0 WARNING: Furnish a copy of this DWG to the E-P 1941 - 17 J-L 54 - 1825 installation contractor. Special care must be taken P-0 3264 0 during handling, shipping and installation of trusses. See "WARNING" note below. The overall height of this truss excluding overhang is

> FL REG# 278, Yoonhwak Kim, FL PE #86367 10/28/2019

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6750 Forum Drive Suite 305 Orlando FL. 32821

SEQN: 564928 COI	MN I	Ply:	2	Job Number: 19-3660	Cust: R	215 JR	Ref: 1WPQ2150004 T36
FROM: CDM	- 10	Qty:	1	/Powell Residence /SPARKS CONST.	DrwNo:	301.19	9.1532.32953
Page 2 of 2				Truss Label: A01	1	YK	10/28/2019

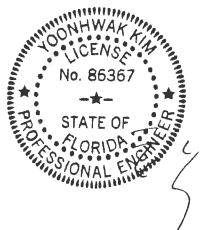
Special Loads

(Lumber	Dur.Fac.=	1.25 / Plate	Dur.Fac.=	1.25)
TC: From	60 plf at	-1.50 to	60 plf at	13.06
TC: From	30 plf at	13.06 to	30 plf at	41.00
TC: From	60 plf at	41.00 to	60 plf at	49.50
BC: From	5 plf at	-1.50 to	5 plf at	0.00
BC: From	20 plf at	0.00 to	20 plf at	13.06
BC: From	10 plf at	13.06 to	10 plf at	40.97
BC: From	20 plf at	40.97 to	20 plf at	47.96
BC: From	5 plf at	47.96 to	5 plf at	49.50
TC: 257 lb	Conc. Loa	d at 7.03	•	
TC: 181 lb	Conc. Loa	d at 9.06		

TC: 91 lb Conc. Load at 13.06,15.06,17.06,19.06 21.06 TC: 200 lb Conc. Load at 23.06,24.94,26.94,28.94

TC: 200 ib Conc. Load at 23.06,24.94,26.94,26.94
TC: 294 ib Conc. Load at 40.97
BC: 466 ib Conc. Load at 7.03
BC: 129 ib Conc. Load at 9.06,13.06,15.06,17.06

19.06,21.06 BC: 275 lb Conc. Load at 11.06 BC: 160 lb Conc. Load at 23.06,24.94,26.94,28.94 30.94,32.94,34.94,36.94,38.94 BC: 536 lb Conc. Load at 40.97



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



Suite 305 Orlando FL, 32821

ASCE7-10-GAB14015 DRWG A14015ENC101014 Attach 'L' braces with 10d (0.128"x3.0" min) naks. Gable end supports load from 4' 0' outlookers with 2' 0' overhang, or 12' plywood overhang * For (1) 'L' brace! space rails at 2' o.c. in 18' end zones and 4' o.c. between zones. x4 Braces shall be SRB (Stress-Rated Board) (For (2) 'L' braces: space nalls at 3' o.c. in 18' end zones and 6' o.c. between zones. IMFor 1x4 So. Pine use only Industrial 35 or Industrial 43 Stress-Rated Boards, Group values may be used with these grades, Hem-Fir Stud 3 Standard Refer to the Building Designer for conditions not addressed by this detail. "L" bracing must be a minimum of 80% of web member length. Provide uplift connections for 55 plf over continuous bearing (5 psf TC Bead Load). Bracing Group Species and Gradesi Southern Pinemin #3 Stud Stud No Splice 1X4 or 2X3 3X4 Southern Pinemi Gable Truss Detail Notesi + Refer to comon truss design for peak, splice, and heel plates, Wind Load deflection criterion is L/240. Gable Vertical Plate Sizes DATE 10/01/14 # € Hem-Fir #1 B Btr Group A Group B 1,00 Vertical Length Less than 4' 0' Greater than 4' 0' Spruce-Pine-Fir #1 / #2 Standard #3 Stud REF Douglas Fir-Larch #3 Stud Standard Douglas Fir-Larch П PSF Kzt # 알 24.0, 9 ပဲ MAX. SPACING TOT. LD. Wind Speed, 15' Mean Height, Enclosed, Exposure 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00 Group B 14, 0, 14, 0, 14, 0, 14, 0 14, 0, 14, 0 14' 0' (1) 2x4 'L' Brace # (2) 2x4 'L' Brace ## (1) 2x6 'L' Brace # (2) 2x6 'L' Brace 7 + aborgery of TOUR CORIDA CANAL EN Refer to chart about of the max caple vertical tenders with the same of the sa Group B Group A 14, 0, 14, 0, 14, 0° 14, 0, 14, 0, 14, 0, 14, 0, FL/RECH 278, Yoonhwak Kim, FL PE #86367 13, 4, 11, 10, 14 0 14, 0, 14' 0" 14, 0, 14' 0' 14' 0' 14, 0, Detail Group B Group A 14, 0, 14' 0' 13' 6' 14' 0' 14, 0, 14, 0, 14, 0, Reinforcement 15, 2, 12, 15 12, 14 Transars require extreme care in febrication handloo, shippin bestilling and invarion. Refer to out of the latest setting of BESI chain Closed Close the median shippin bestilling and invarion. When the setting the setting the setting setting the setting setting the setting setting the setting setting setting the setting set setting 10' B' ກໍ່ ໝໍ ij بة اق 'n MENANDOMEN READ AND FILLIDY ALL KITIES IN THIS DRAYING MEDIFICATIONS INCLUDING THE DRIFALLIPS. Group A 11. 7. 11. 8. 12. 9. 12. 9. 12. 9. 13. 0. 12. 11. 10' 1" 10, 15 10, 13 10, 3, 11, 10, Group B 18, 10, 3, 10, 3, 10' 4" Stud Brace Ļ Group A 9, 9, Gable (1) 1x4 'L' Brace # Group B 9, 6, 9 9 4 8, 2x4 DF-L 42 or better diagonal brace; single or double cut (as shown) at 140 mph 555 Group A No Braces ţ Gable Truss 4 4 4 4 9 9 9 9 9 4, 8, ະ ຜູ້ ໜ່ວ່າ ທ່ ASCE 7-10 Standard Standard #1 / #2 Standard Standard Stud Stud Grade #3 AN ITW COMPANY Vertical length shown in table above. Connect diagonal at midpoint of vertical Vertical Species Suite 200 Maryland Heights, MO 63043 SPF SPF doubled when diagonal brace is used. Connect diagonal brace for 450% at each end. Max web total length is 14. SPF SP SP SP 노 노 노 JFL 13723 Riverport Drive brace option Gable pacing 'D'O ,9I **"**†2 ס'כ' 'D'0 15, vertical y16ua7 Vertical Gable $M\alpha \times$

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

conservative For minimum alternative reinforcement, re-run design with appropriate Alternative reinforcement specified in chart below may be reinforcement type. Use scabs instead of L- or T- reinforcement on webs with intersecting truss joints, such as K-web joints, that may interfere with proper application along the narrow face of the web.

			,
forecement	1-2×4	1-2x6	1-2x8
Scab Reinf.	2-2×4	2-2x400	2-2x6() ()
Alternative Reinforecement	2x6	2x4	2x6
T- or L- Reinf, Scab Reinf,	2x6	2x6	2x6
Specified CLR	1 row	1 row	1 row
Restraint	2 rows	2 rows	2 rows
Web Member	2x3 or 2x4	2x6	2×8
Size	2x3 or 2x4	2x6	2×8

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

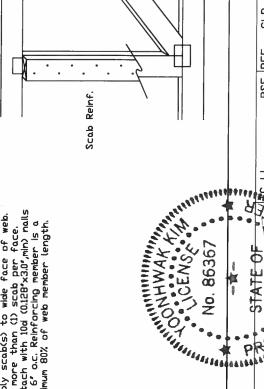
Center scab on wide face of web. Apply (1) scab to each face of web.

I-Reinf. L-Reinf, Apply to either side of web narrow face. Attach with 10d (0.128'x30',min) nalls at 6' o.c. Reinforcing member is a minimum 80% of web L-Reinforcement T-Reinforcement member length

Scab Reinforcement

L-Reinf,

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128*x3.0",min) nalls at 6' o.c. Reinforcing member is a minimum 80% of web member length.



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<u>1</u>

DRVG PSF PSF PSF DUR. FAC. SPACING

BRCL BSUB0119

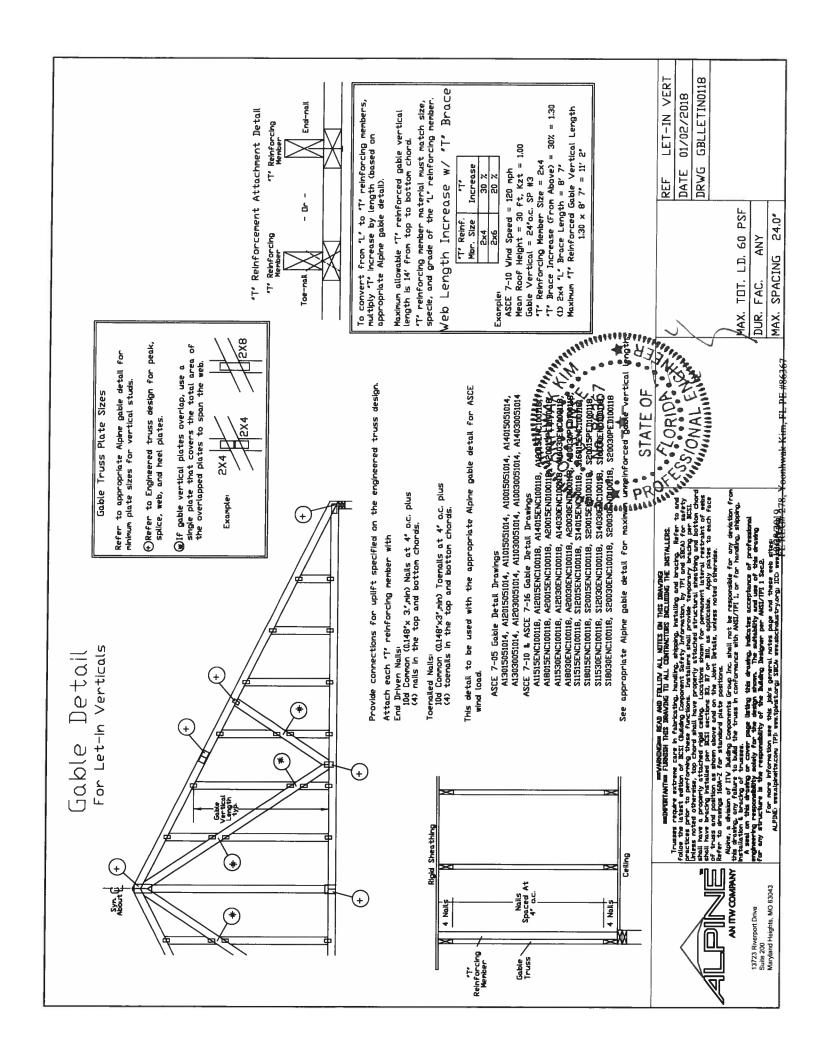
CLR Subst. 01/02/19

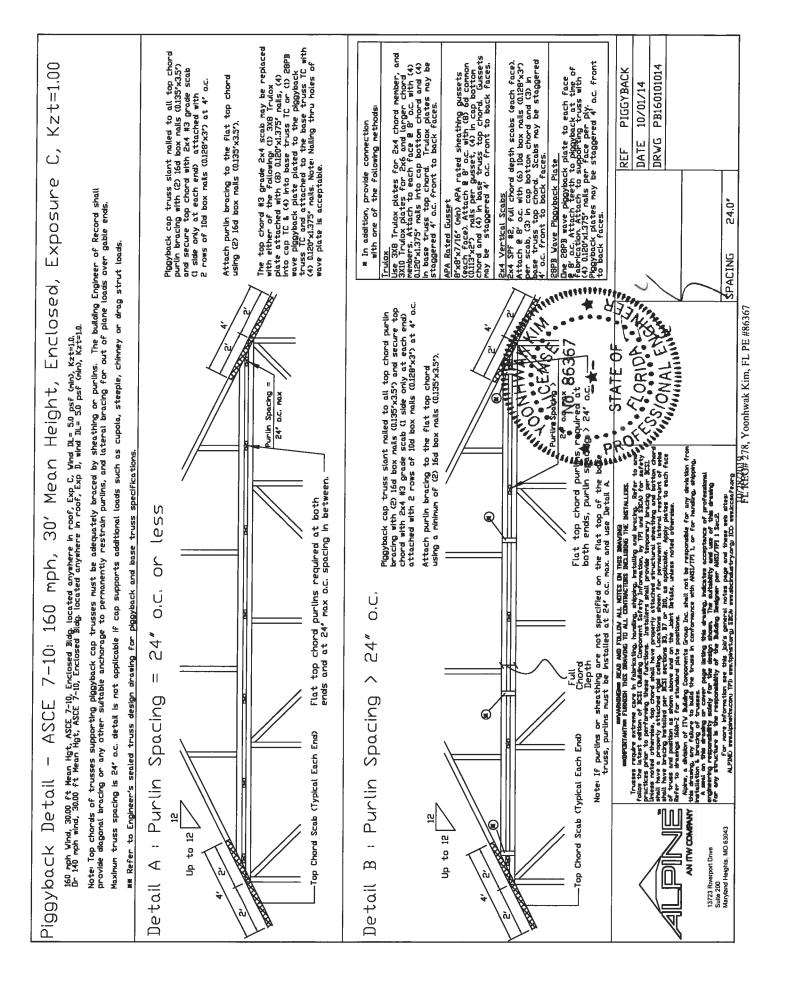
DATE REF

PSF

Suite 200 Maryland Heights, MO 63043 13723 Riverport Drive

10/88/34 278, Yoonhwak Kim, FL PE #86367





Residential System Sizing Calculation

Summary
Project Title:
Powell Residence

"FL

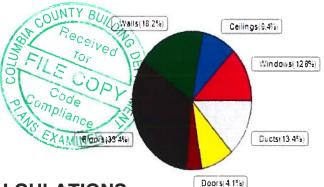
10/21/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)								
Winter design temperature(TMY3 99%) 30 F Summer design temperature(TMY3 99%) 94 F								
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	40	F	Summer temperature difference	19	F			
Total heating load calculation	33953	Btuh	Total cooling load calculation	26237	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	141.4	48000	Sensible (SHR = 0.85)	183.0	40800			
Heat Pump + Auxiliary(0.0kW)	141.4	48000	Latent	182.6	7200			
			Total (Electric Heat Pump)	182.9	48000			

WINTER CALCULATIONS

Winter Heating Load (for 2494 sqft)

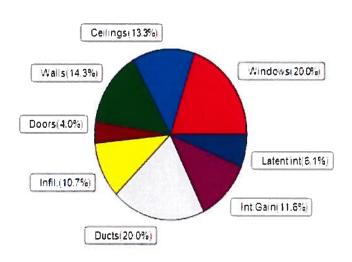
THE PERSON NAMED IN CO.				
Load component			Load	
Window total	329	sqft	4343	Btuh
Wall total	1796	sqft	6192	Btuh
Door total	88	sqft	1408	Btuh
Ceiling total	2494	sqft	3177	Btuh
Floor total	2494	sqft	11328	Btuh
Infiltration	67	cfm	2956	Btuh
Duct loss			4549	Btuh
Subtotal			33953	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			33953	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2494 sqft)

Load component			Load	
Window total	329	sqft	5236	Btuh
Wall total	1796	sqft	3760	Btuh
Door total	88	sqft	1056	Btuh
Ceiling total	2494	sqft	3495	Btuh
Floor total			0	Btuh
Infiltration	51	cfm	1053	Btuh
Internal gain			3040	Btuh
Duct gain			4654	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			22294	Btuh
Latent gain(ducts)			595	Btuh
Latent gain(infiltration)	1747	Btuh		
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occup	1600	Btuh		
Total latent gain	3943	Btuh		
TOTAL HEAT GAIN	26237	Btuh		





EnergyGauge® System Sizing PREPARED BY: ____ 10-21-19 DATE: _

System Sizing Calculations - Summer

Residential Load - Whole House Component Details Project Title: Powell Residence

, FL

10/21/2019

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

		Туре	*			Over	hang	Wind	ow Area	a(sqft)	F	ITM	Load	
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hat	Gross	Shaded !	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.22, 0.33	No	No	N	1.5ft	1.3ft	30.0	0.0	30.0	11	11	327	Btuh
2	2 NFRC	0.22, 0.33	No	No	N	5.5ft	1.3ft	54.0	0.0	54.0	11	11	588	Btuh
3	2 NFRC	0.22, 0.33	No	No	Ε	13.5f	1.3ft	36.0	36.0	0.0	11	27	392	Btuh
4	2 NFRC	0.22, 0.33	No	No	N	15.5f	1.3ft	36.0	0.0	36.0	11	11	392	Btuh
5	2 NFRC	0.22, 0.33	No	No	Ε	1.5ft	1.3ft	30.0	0.0	30.0	11	27	824	Btuh
6	2 NFRC	0.22, 0.33	No	No	Ε	1.5ft	1.3ft	20.0	0.0	20.0	11	27	550	Btuh
7	2 NFRC	0.22, 0.33	No	No	S	9.5ft	1.3ft	18.0	18.0	0.0	11	13	196	Btuh
8		0.22, 0.33	No	No	W	15.5f	1.3ft	6.0	6.0	0.0	11	27	65	Btuh
9		0.22, 0.33	No	No	S	17.2f	1.3ft	13.3	13.3	0.0	11	13	145	Btuh
10		0.22, 0.33	No	No	S	17.2f	1.3ft	6.7	6.7	0.0	11	13	73	Btuh
11	1	0.22, 0.33	No	No	S	10.2f	1.3ft	36.0	36.0	0.0	11	13	392	Btuh
12		0.22, 0.33	No	No	W	1.5ft	1.3ft	20.0	0.0	20.0	11	27	550	Btuh
13		0.22, 0.33	No	No	W	1.5ft	1.3ft	8.0	0.0	8.0	11	27	220	Btuh
14		0.22, 0.33	No	No	W	1.5ft	1.3ft	15.0	0.0	15.0	11	27	412	Btuh
	Excursion													Btuh
	Window	/ Total						329 (8	sqft)				5236	Btuh
Walls	Туре				U	-Value	R-V	/alue	Area((sqft)		HTM	Load	
							Cav/S	heath	,					
1	Frame - \	Nood - Ext			(0.09	13.0		108	3.0		2.2	237	Btuh
2	Frame - Wood - Ext			0.09	13.0		39			2.2	86	Btuh		
3	Frame - Wood - Ext		(0.09	13.0		126	3.0		2.2	277	Btuh		
4	Frame - Wood - Ext			0.09	13.0		60	.7		2.2	133	Btuh		
5	Frame - Wood - Ext		(0.09	13.0	/0.6	92	.0	2.2		202	Btuh		
6	Frame - \	Nood - Ext			(0.09	13.0	/0.6	111	1.0		2.2	244	Btuh
7	Frame - \	Nood - Ext			- (0.09	13.0	/0.6	295.0		2.2		649	Btuh
8	Frame - V	Nood - Ext			(0.09 13.0/0.6		/0.6	132.0		2.2		290	Btuh
9		Nood - Ext				0.09	13.0	/0.6	45	-		2.2	99	Btuh
10		Nood - Ext				0.09	13.0		40	-		2.2	88	Btuh
11	i	Nood - Ext				0.09	13.0		36			2.2	79	Btuh
12		Nood - Ext				0.09	13.0		84			2.2	185	Btuh
13		Nood - Adj				0.09	13.0		334			1.6	547	Btuh
14		Nood - Ext				0.09	13.0		179			2.2	394	Btuh Btuh
15		Nood - Ext			(0.09	13.0/0.6 114.0							
	Wall To	tal							179	6 (sqft)			3760	Btuh
Doors	Туре								Area	(sqft)		HTM	Load	
1	Insulated	- Exterior							48	.0		12.0	576	Btuh
2	Insulated								20			12.0	240	Btuh
3	Insulated								20			12.0		Btuh
	Door To	•							8	8 (sqft)			1056	
Ceilings		olor/Surfa	ace		11.	-Value	1	R-Value				нтм	Load	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1		ttic/Light/Sh				0.032		30.0/0.0	249			1.40	3495	Direk
1			iiigie			0.032	3	0.0/0.0				1.40		
	Ceiling	otal					D. 1			4 (sqft)			3495	Binh
Floors	Туре							alue	Siz			HTM	Load	
1	Slab On 0							0.0		94 (ft-perin	neter)	0.0		Btuh
	Floor To	otal							2494.	0 (sqft)			0	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A Powell Residence

, FL

10/21/2019

Infiltration Internal gain			Envelope Subto	otal:	13547 Btuh
	Type Natural	Average ACH	Volume(cuft) Wall Ratio	CFM= 50.6	Load 1053 Btuh
	Naturai	Occupants 8	Btuh/occupant X 230 +	Appliance 1200	Load 3040 Btuh
			Sensible Envel	ope Load:	17640 Btuh
Duct load			ducts)	4654 Btuh	
			Sensible Load A	All Zones	22294 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Powell Residence Climate:FL_GAINESVILLE_REGIONAL_A

, FL

10/21/2019

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	17640	Btuh
	Sensible Duct Load	4654	Btuh
	Total Sensible Zone Loads	22294	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	22294	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1747	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	595	Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3943	Btuh
	TOTAL GAIN	26237	Btuh

EQUIPMENT		
Central Unit Central Unit	#	36000 Btuh 12000 Btuh

*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(1/2))

(Ornt - compass orientation)



System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Powell Residence
Building Type: User

10/21/2019

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House

, FL

Window	Panes/Type	Frame 1	J Orientat	ion Area(sqft)	K HTM=	Load
1	2, NFRC 0.22		.33 N	30.0	13.2	396 Btuh
2	2, NFRC 0.22		.33 N	54.0	13.2	713 Btuh
3	2, NFRC 0.22		.33 E	36.0	13.2	475 Btuh
4	2, NFRC 0.22	•	.33 N	36.0	13.2	475 Btuh
5	2, NFRC 0.22		.33 E	30.0	13.2	396 Btuh
6	2, NFRC 0.22		.33 E	20.0	13.2	264 Btuh
7	2, NFRC 0.22		.33 S	18.0	13.2	238 Btuh
8	2, NFRC 0.22		.33 W	6.0	13.2	79 Btuh
9	2, NFRC 0.22	Vinyl 0.	.33 S	13.3	13.2	176 Btuh
10	2, NFRC 0.22		33 S	6.7	13.2	88 Btuh
11	2, NFRC 0.22	Vinyl 0.	33 S	36.0	13.2	475 Btuh
12	2, NFRC 0.22	Vinyl 0.	33 W	20.0	13.2	264 Btuh
13	2, NFRC 0.22		33 W	8.0	13.2	106 Btuh
14	2, NFRC 0.22		33 W	15.0	13.2	198 Btuh
	Window Total	•		329.0(sq	ft)	4343 Btuh
Walls	Туре	Ornt. Ueff.	R-Valu	ie Area X	HTM=	Load
			(Cav/S	Sh)		
1	Frame - Wood	- Ext (0.08	6) 13.0/	0.6 108	3.45	372 Btuh
2	Frame - Wood	- Ext (0.08		0.6 39	3.45	134 Btuh
3	Frame - Wood	- Ext (0.08	6) 13.0/	0.6 126	3.45	435 Btuh
4	Frame - Wood	- Ext (0.08	6) 13.0/	0.6 61	3.45	209 Btuh
5	Frame - Wood	- Ext (0.08	6) 13.0/	0.6 92	3.45	317 Btuh
5 6 7	Frame - Wood	- Ext (0.08	6) 13.0/	0.6 111	3.45	383 Btuh
	Frame - Wood	- Ext (0.08	6) 13.0/		3.45	1017 Btuh
8	Frame - Wood	- Ext (0.08	6) 13.0/		3.45	455 Btuh
9	Frame - Wood	- Ext (0.08	6) 13.0/	0.6 45	3.45	155 Btuh
10	Frame - Wood	- Ext (0.08	6) 13.0/		3.45	138 Btuh
11	Frame - Wood	- Ext (0.08			3.45	124 Btuh
12	Frame - Wood	- Ext (0.08	6) 13.0/		3.45	290 Btuh
13	Frame - Wood	- Adj (0.08			3.45	1152 Btuh
14	Frame - Wood	- Ext (0.08			3.45	617 Btuh
15	Frame - Wood	- Ext (0.08	6) 13.0/		3.45	393 Btuh
	Wall Total	·		1796(sq		6192 Btuh
Doors	Туре	Storm Uef		Area X	HTM=	Load
1	Insulated - Exter		,	48	16.0	768 Btuh
2	Insulated - Exter		,	20	16.0	320 Btuh
3	Insulated - Gara	ge, n (0.40	0)	20	16.0	320 Btuh
	Door Total			88(sqft		1408Btuh
Ceilings	Type/Color/Surfa		R-Valu		HTM=	Load
1	Vented Attic/L/S	hing (0.032)	30.0/0.		1.3	3177 Btuh
	Ceiling Total			2494(sq	ft)	3177Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

, FL

Project Title: Powell Residence Building Type: User

10/21/2019

Floors 1	Type Slab On Grade Floor Total	Ueff. (1.180)	R-Value 0.0	Size X 240.0 ft(per 2494 sqft	HTM= m.) 47.2	Load 11328 Btuh 11328 Btuh
				Envelope Subto	tal:	26448 Btuh
Infiltration	Type Natural	Wholehouse AC 0.1		` '	o CFM= 67.5	2956 Btuh
Duct load				(DLM of Mix	ed ducts)	4549 Btuh
All Zones			Sensible	Subtotal All Z	ones	33953 Btuh

WHOLE HOUSE TOTALS

Total Heat Loss 33953 Btuh

EQUIPMENT

1. Electric Heat Pump	#	36000 Btuh
2. Electric Heat Pump	#	12000 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values) or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location varies
3. No. of units (if multiple-family)	31	c) And location valies
4. Number of bedrooms	44	13. Cooling system: Capacity 48.0 a) Split system SEER 14.0
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	62494	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.330 7b. 0.220 7c. 329.0	14. Heating system: Capacity 48.0 a) Split system heat pump HSPF 8.5 b) Single package heat pump HSPF
8. Skylights a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8a. NA SELLO	c) Electric resistance COP d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE
 Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value) 	9a. 0.0 P.Com, 9b. 9c.	15. Water healing system
10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value)	10A1. <u>13.0</u> 10A2 10B1. <u>13.0</u>	MN5 Sas fired, natural gas EF
Masonry (Insulation R-value) Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	10B2 11a30.0 11b 11c 11dNo	16. HVAC credits claimed (Performance Method) a) Ceiling fans Yes b) Cross ventilation No c) Whole house fan No d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	rgy Conservation, if not DEFAULT.
I certify that this home has complied with the F saving features which will be installed (or exce display card will be completed based on instal	eded) in this home befor	re final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home:		City/FL Zip:, FL

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Powell Residence Street:		Builder Name: Sparks Construction Permit Office: Columbia County	
City, State, Zip: , FL ,		Permit Number:	
Street: City, State, Zip: FL , Owner: Design Location: FL, Gainesville 1. New construction or existing New (From Plans) 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of units, if multiple family 5. Is this a worst case? No 6. Conditioned floor area above grade (ft*) 7. Windows(230.0 sqft.) Description Area a. U-Factor: N/A SHGC: J-Hactor: N/A SHGC: d. U-Factor: N/A SHGC:		e Zone 2)	
2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(329.0 sqft.) Description a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Floor Types (2494.0 sqft.) Instance Slab-On-Grade Edge Insulation b. N/A C. N/A R=	Single-family 1 4 No 2494 0 Area 329.00 ft² ft² ft² ft² 7.595 ft. 0.220 ulation Area 0.0 2494.00 ft² ft² ft² ft²	a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2494.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage b. Sup: Bedroom 2, Ret: Bedroom 2, A 12. Cooling systems a. Central Unit b. Central Unit b. Central Unit 13. Heating systems a. Electric Heat Pump b. Electric Heat Pump b. Electric Heat Pump code 14. Hot water systems a. Electric b. Conservation features None 15. Credits	R=13.0 1858.70 ft ² R=13.0 354.00 ft ² R= ft ² R= ft ² Insulation Area R=30.0 2494.00 ft ² R= ft ² R= ft ² R= ft ² 6 496.8 AH: Bedroom 6 1 AH: Bedroom
Glass/Floor Area: 0.132	•		PASS
this calculation are in compliance with the Code. PREPARED BY: 10-21-19 I hereby certify that this building, as design with the Florida Energy Code.	Florida Energy	specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.	Charles on all land
OWNER/AGENT:		BUILDING OFFICIAL: DATE:	

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

				PRO									
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	1	uction nty	Bedroom Condition Total Sto Worst Ca Rotate A Cross Ve Whole He	ned Area: ries: use: ngle:	4 2494 1 No 0			Lot # Block PlatBo Street Count		sion: (p: ,	Street A		
			-	CLIM	ATE							···	
V Des	sign Location	TMY Site			Design Tei 7.5 % 2	mp 2.5 %	Int Desi			eating ree Day		sign D sture	aily Ten Range
FL	, Gainesville	FL_GAINESVILLE	_REGI		32	92	70	75	1	305.5	5	51	Mediur
				BLO	CKS								
Number	Name	Area	Volume	!				· · · · · · · · · · · · · · · · · · ·					
1	Block1	2274	2046	3									
2	Block2	220	1980										
				SPAC	CES						•		
Number	Name	Area	Volume	Kitchen	Occupar	nts	Bedrooms	in	fil ID	Finishe	d (Cooled	Hea
1	Main	2274	20466	Yes	6		3	1		Yes	١	es	Yes
2	Bedroom 2	220	1980	No	2		1	1		Yes	١	es/es	Yes
				FLOC	RS								-
√ #	Floor Type	Space	Per	imeter	R-Value		Area				Tile	Wood	Carpet
	b-On-Grade Edge	Land Lands B. A.					2494 ft²				0.33	0.33	0.34
1 Sła	ib-On-Grade Edge	Insulatio Ma	nin 24	O ft	0								
1 Sla	ib-On-Grade Edge	Insulatio Ma	in 24	ROC				•					
1 Sia	Type	Materials	Roof Area	ROC)F	oof	Rad	Solar Absor.	SA Tested	Emitt	Em Teste	itt De	
./			Roof Area	Gab Are	DF le Ro a Co	oof	Rad			Emitt		d Ins	ul. (de
√ #	Туре	Materials	Roof Area	Gab Are	DF le Ro a Co	oof	Rad Barr	Absor.	Tested		Teste	d Ins	ul. (de
√ #	Туре	Materials	Roof Area es 2998 ft	Gab Are	DF le Ri a Co	oof blor dium	Rad Barr	Absor.	Tested	0.9	Teste	d Ins	ul. (de

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

							CE	ILING							
/	#	(Ceiling	Туре		Space	R-V	alue	Ins	Туре	Area	Framing	Frac 1	russ Type	e
	1	Ų	Jnder	Attic (Ve	ented)	Main	30)	Blo	wn	2494 ft²	0.11		Wood	
	<u> </u>						WA	ALLS	-	-					
/ #	Orr		Adjac To		Туре	Space	Cavity R-Value	Wid	lth In	Height Et In	Area	Sheathing R-Value	Framing	Solar Absor	Belo Grade
_ 1	N		kterio		me - Wood	Bedroom 2	_	15	4	9	138.0 ft²		0.23	0.75	
_ 2	E	E	kterio	Fra	me - Wood	Bedroom 2	2 13	4	4	9	39.0 ft²	0.625	0.23	0.75	
_ 3	N	E	derior	Fra	me - Wood	Main	13	18		10	180.0 ft ²	0.625	0.23	0.75	
_ 4	E	E	derior	Fra	me - Wood	Main	13	9	8	10	96.7 ft ²	0.625	0.23	0.75	
_ 5	N	E	derior	Fra	me - Wood	Main	13	14		10	140.0 ft ²	0.625	0.23	0.75	
_ 6	N	E	cterior	Fra	me - Wood	Main	13	16	4	9	147.0 ft ²	0.625	0.23	0.75	
7	Е	E	derior	Fra	me - Wood	Main	13	38	4	9	345.0 ft ²	0.625	0.23	0.75	
8	S	E:	derior	Fra	me - Wood	Main	13	16	8	9	150.0 ft ²	0.625	0.23	0.75	
9	V	/ E:	derior	Frai	me - Wood	Main	13	5	8	9	51.0 ft ²	0.625	0.23	0.75	
10	S	E	cterior	Frai	me - Wood	Main	13	8		10	80.0 ft ²	0.625	0.23	0.75	
11	Е	E	derior	Frai	me - Wood	Main	13	4		9	36.0 ft ²	0.625	0.23	0.75	
12	S	E	derior	Frai	me - Wood	Main	13	13	4	9	120.0 ft²	0.625	0.23	0.75	
13	SV	V G	arage	Frai	me - Wood	Main	13	39	4	9	354.0 ft²	0.625	0.23	0.75	
14	V	/ Ex	derior	Fran	me - Wood	Main	13	23		9	207.0 ft ²	0.625	0.23	0.75	
15	W	/ Ex	derior	Fran	me - Wood	Bedroom 2	2 13	14	4	9	129.0 ft²	0.625	0.23	0.75	
							DO	ORS		- "					
,	#		Orni		Door Type	Space			Storms	U-Val	lue F	Width t In	Heigh Ft	t , In	Area
	1		N		Insulated	Main			None	.4			8		8 ft²
	2		S		Insulated	Main			None	.4	3		6		0 ft²
_	3		SW		Insulated	Main			None	.4	3		6	8 2	0 ft²
					Ori	entation show		DOWS	roposo	d ariantatio	n				
,			Wall		Off	entation snow	AT IS LITE CI	ileieu, r	торозе	d Onentatio		rhang		· ·	
	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Sha	ide S	creen
	1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft ²	1 ft 6 in	1 ft 4 in	None	Э	None
_	2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	54.0 ft ²	5 ft 6 in	1 ft 4 in	None	Э	None
_	3	Е	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft ²	13 ft 6 in	1 ft 4 in	None	Э	None
_	4	N	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft ²	15 ft 6 in	1 ft 4 in	None	e	None
_	5	E	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft ²	1 ft 6 in	1 ft 4 in	None	9	None
_	6	E	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft ²	1 ft 6 in	1 ft 4 in	None	е	None
_	7	S	8	Vinyi	Low-E Double	Yes	0.33	0.22	N	18.0 ft ²	9 ft 6 in	1 ft 4 in	None	е	None
_	8	W	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft ²	15 ft 6 in	1 ft 4 in	None	•	None
_	9	S	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	13.3 ft²	17 ft 2 in	1 ft 4 in	None	9	None
_	10	S	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.7 ft ²	17 ft 2 in	1 ft 4 in	None	•	None
	11	S	12	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft ²	10 ft 2 in	1 ft 4 in	None	•	None
_	12	W	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft ²	1 ft 6 in	1 ft 4 in	None	€	None

							Orientation s		IDOWS entered. Pi	oposed	orientation						
	/			Wail			011011(4)(0114		onkeree, t	оросси	OHOHIGIOH.	Ove	rhang				
	#	. (Ornt	ID	Frame	Panes	NFRC	U-Facto	r SHGC	Imp	Area		Separation	on Int	Shade	Scr	reenin
	14	4	W	15	Vinyl	Low-E Doub	ole Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in		lone	١	None
								GA	RAGE								
	,	#		Floo	or Area	С	eiling Area	Exposed	Wall Perir	neter	Avg. Wal	l Height	Ехр	osed Wal	Insulation	on	
		1	5	60.39	78778 1	t² 560	.3978778 ft²		70 ft		9 f	t		1			
								INFIL	TRATIO	N							
#	Sco	ре		N	Method		SLA	CFM 50	ELA	E	qLA	ACH	A	ACH 50			
1 1	Wholeh	nouse	•	Prop	osed A	CH(50)	.000286	1870.5	102.69	19	3.12	.1128		5			
								HEATIN	G SYST	EM							
V		#	Sys	tem T	Гуре		Subtype		E	fficiency	/ Ca	apacity			Block	С	oucts
	_	1	Ele	ctric H	leat Pu	mp/	Split		H	SPF:8.5	36	kBtu/hr			1	S	ys#1
	_	2	Ele	ctric H	leat Pu	mp/	Through the	Wall(Single)		SPF:8.5	12	kBtu/hr			2	s	ys#2
. ,								COOLIN	G SYST	EM							
		#		tem T			Subtype		Ef	ficiency	Capacity	/ A	ir Flow	SHR	Block	D	oucts
	_	1	Cer	itral U	Jnit/		Split		SE	ER: 14	36 kBtu/h	nr 108	30 cfm	0.85	1	S	ys#1
	_	2	Cer	ntral U	Jnit/		Through the	Wall(Single)	SE	ER: 21	12 kBtu/h	nr 36	0 cfm	0.85	2	S	ys#2
								TAW TOH	ER SYS	TEM							
		#	S	ystem	туре	SubType	Location	EF	Сар		Use	SetPn	t	Co	nservatio	n	
		1	Е	lectric	;	None	Garage	0.92	40 ga		70 gal	120 de	9		None		
							SOL	AR HOT V	VATER S	SYSTE	M						
\checkmark		FSEC Cert		Comp	pany Na	ime		System Mo	del#	Co	llector Mod		Collector Area	Stora Volu		FEF	
	_	None	;	None	•								ft²				
			·	·				DI	JCTS		•						
		Supply # Location R-Value Area			Retu Location	ırn Area	Leakage	Туре	Air Handle	CFM 2 r TOT	5 CFM2 OUT		RLF		/AC # Coo		
		1		Attic		6 496.8 ft	Attic	124.2 ft	Prop. Lea	k Free	Garage	cfr	n 68.2 c	fm 0.03	0.50	1	1
		2	Re	droor	m 2	6 1 ft²	Bedroom 2	1 ft²	Prop. Lea	l. ====	Bedroom 2	cfr	n 6.6 cf	m 0.03	0.50	2	2

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INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES														
Programa	able Thermo	stat: Y		eiling Fan	S:									
Cooling Heating Venting	[] Jan [X] Jan [] Jan	X Feb	[] Mar X] Mar X] Mar	Ap (X) Ap	or or or	May May May	[X] Jun [] Jun [] Jun	[X] Jul	[X] Aug [] Aug [] Aug	[X]	Sep Sep Sep	Oct Oct X Oct	[] Nov [X] Nov [X] Nov	Dec XDec Dec
Thermostat	Schedule:	HERS 2006 Reference						Но	Hours					
Schedule Type			1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)		AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)		AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Heating (WD)		AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)		AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
							MASS							
Mas	ss Type	Area				Thickness		Furniture Fraction			Space		· · · · · · · · · · · · · · · · · · ·	
Defa	ault(8 lbs/sq	0 ft²				0 ft		0.3			Main			
Defa	ault(8 lbs/sq	0 ft²				0 ft 0.3								