Alpine, an ITW Company

13723 Riverport Dr, Suite 200 Maryland Heights, MO 63043 (314) 344-9121
Florida Engineering Certificate of Authorization Number: 0 278
 Document ID:1WXJ6704Z0211114511

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BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

08/11/2020

Truss Fabricator:	Angle
Transmitted From:	ksangle@yahoo.com
Job Identification:	S1401-Belmont Academy -(Escort Load) -- , **
Truss Count:	42
Model Code:	Florida Building Code
Truss Criteria:	AISI S100-2012/FBC2017Com;AISI S100-2012/FBC 2017 COM
Engineering Software:	Alpine proprietary truss analysis software. Versions 17.02,
Structural Engineer of Record:	
Address:	
Truss Design Loads:	Roof - 55 PSF Floor - N/A Wind - 140 MPH (ASCE 7-10-Closed)

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in AISI/COFS/TRUSS Chapter B.
2. As shown on attached drawings; the drawing number is preceded by: MOUSR6704
3. The seal affixed hereto indicates acceptance of professional engineering responsibility for the component details listed on this sheet and contained within this bound document. Other documents which are not attached to this bound document have neither been prepared by me nor under my direct supervision. This bound document is no longer valid if any modifications are made to it.

Brian Carron
-Truss Design Engineer-

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043

Details: TS011-TS002A-TS004-TS015-TS019-TS017-TS013-TS014-TS026-
Submitted by BWC 11:44:36 08-11-2020 Reviewer: cwc
$$

#	Ref	Description	Drawing#	Date
1	84432	--T01	20219008	08/06/20
2	84433	--T02	20219009	08/06/20
3	84434	--T03	20219049	08/06/20
4	84435	--T04	20219010	08/06/20
5	84436	--T05	20219011	08/06/20
6	84437	--T06	20219012	08/06/20
7	84438	--T07	20219013	08/06/20
8	84439	--T08	20219014	08/06/20
9	84440	--T09	20219015	08/06/20
10	84441	--T10	20219016	08/06/20
11	84442	--T11	20219017	08/06/20
12	84443	--T12	20219047	08/06/20
13	84444	--T13	20219018	08/06/20
14	84445	--T14	20219019	08/06/20
15	84446	--T15	20219020	08/06/20
16	84447	--VA01	20219021	08/06/20
17	84448	--VA02	20219022	08/06/20
18	84449	--VA03	20219023	08/06/20
19	84450	--VA04	20219024	08/06/20
20	84451	--VA05	20219025	08/06/20
21	84452	--VA06	20219026	08/06/20
22	84453	--VA07	20219027	08/06/20
23	84454	--VA08	20219028	08/06/20
24	84455	--VA09	20219029	08/06/20
25	84456	--VA10	20219030	08/06/20
26	84457	--VA11	20219031	08/06/20
27	84458	--VB01	20219032	08/06/20
28	84459	--VB02	20219033	08/06/20
29	84460	--VB03	20219034	08/06/20
30	84461	--VB04	20219035	08/06/20

#	Ref	Description	Drawing#	Date
31	84462	--VB05	20219036	08/06/20
32	84463	--VB06	20219037	08/06/20
33	84464	--VB07	20219038	08/06/20
34	84465	--K1A	20219048	08/06/20
35	84466	--K1	20219046	08/06/20
36	84467	--J1	20219039	08/06/20
37	84468	--C6	20219040	08/06/20
38	84469	--C5	20219041	08/06/20
39	84470	--C4	20219042	08/06/20
40	84471	--C3	20219043	08/06/20
41	84472	--C2	20219044	08/06/20
42	84473	--C1	20219045	08/06/20

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

Alpine, an ITW Company

13723 Riverport Dr, Suite 200 Maryland Heights, MO 63043 (314) 344-9121

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Truss Fabricator:	Angle
Job Identification:	S1401-Belmont Academy -(Escort Load) -- , **
Model Code:	Florida Building Code
Truss Criteria:	AISI S100-2012/FBC2017Com;AISI S100-2012/FBC 2017 COM
Engineering Software:	Alpine proprietary truss analysis software. Versions 17.02,
Truss Design Loads:	Roof - N/A Floor - N/A Wind - 140 MPH (ASCE 7-10-Closed)

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

08/11/2020

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1- or AISI/COFS/TRUSS Chapter B.
2. As shown on attached drawings, the drawing number is preceded by: MOUSR6704

Brian Carron

Submitted by BWC 11:44:36 08-11-2020 Reviewer: cwc

Revised Trusses

#	Ref	Description	Drawing#	Date
1	84445--T14		20219019	08/06/20
2	84465--K1A		20219048	08/06/20
3	84466--K1		20219046	08/06/20

(S1401-Belmont Academy -(Escort Load) -- , ** - T01)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W6,W7,W8,W9,W10,W11,W13,W14 33W.75x1.5 .75x1.5-33-45KSI:
:W12 33W.75x2.25 .75x2.25-33-45KSI:

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-2.00	17.80	Structural Panels
Flat TC	17.80	26.87	Purlins at 24"
Sloped TC	26.87	46.67	Structural Panels
BC	0.00	16.25	Purlins at 74"
BC	16.25	30.83	Purlins at 120"
BC	30.83	37.25	Purlins at 77"
BC	37.25	44.67	Purlins at 89"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.

WARNING! This truss is not symmetric, but its exterior geometry makes erection error more probable. It is imperative that this truss be installed properly. Truss manufacturer is to mark this truss for proper erection.

o	1	(b)
c	1	1
w	2	1

o	1	(b)
c	1	1
w	1	1

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

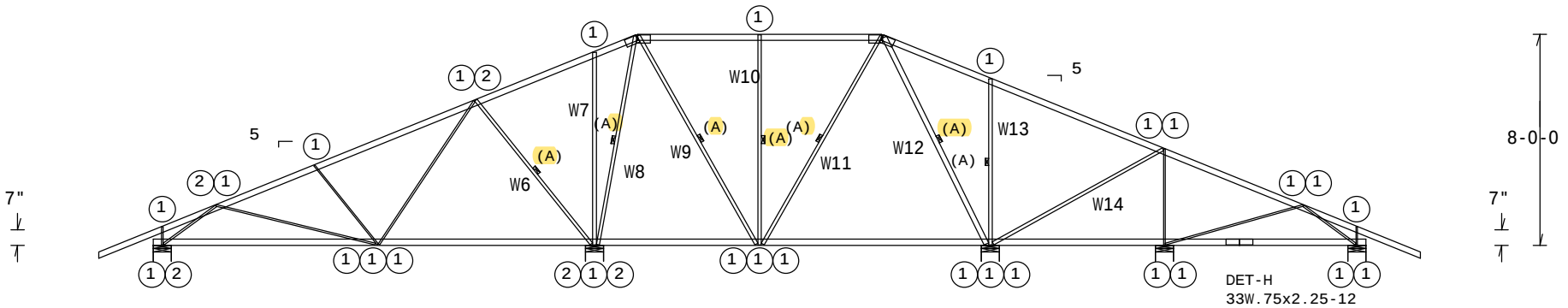
SPLICE=33W.75x2.25x12" tube insert. Center insert at splice and attach with fasteners as indicated by detail label. See drawing TS002A for splice details H to I.

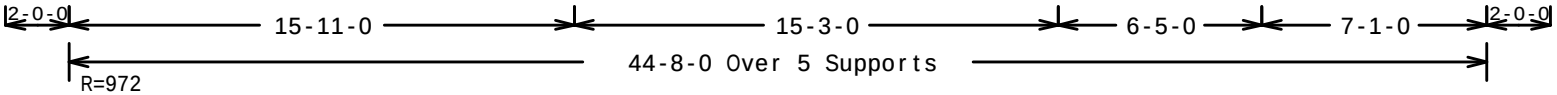
(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

140 mph wind, 33.88 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Deflection meets L/360 live and L/240 total load.





R=972	R=1802	R=1414	R=531	R=569
U=490	U=624	U=546	U=143	U=413
W=8"	W=8"	W=8"	W=8"	W=8"
RL=248/-248				
Restraint	Restraint	Restraint	Restraint	Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:1 FL?-/1/-/-/R/- Scale =.1667"/Ft.

ALPINE TrusSteel
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Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84432
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219008
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T02)

Top chord 43TSC2.75 1.5x2.75-43-55KSI :T2 33TSC2.75 1.5x2.75-33-55KSI:
:T3 28TSC2.75 1.5x2.75-28-55KSI:
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W2,W3,W14,W15,W16,W17 33W.75x.75 .75x.75-33-45KSI:

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-2.00	14.20	Structural Panels
Flat TC	14.20	30.47	Purlins at 24"
Sloped TC	30.47	46.67	Structural Panels
BC	0.00	16.25	Purlins at 76"
BC	16.25	30.83	Purlins at 68"
BC	30.83	37.23	Purlins at 77"
BC	37.23	44.67	Purlins at 89"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.

WARNING! This truss is not symmetric, but its exterior geometry makes erection error more probable. It is imperative that this truss be installed properly. Truss manufacturer is to mark this truss for proper erection.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

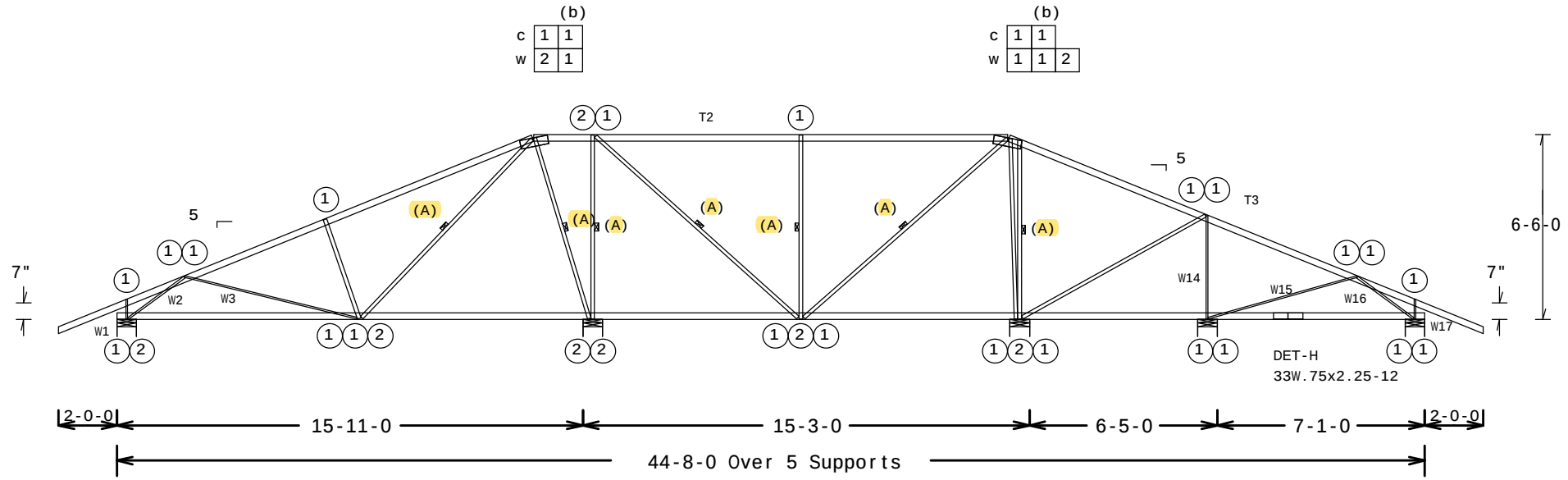
SPLICE=33W.75x2.25x12" tube insert. Center insert at splice and attach with fasteners as indicated by detail label. See drawing TS002A for splice details H to I.

(b) 43TSSPC3.75 18ga. Straight U connector required. See drawing TS004B for peak connector detail.

140 mph wind, 33.13 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 6.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:1 FL/-/1/-/-/R/- Scale =.1875"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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 TrusSteel Technical Bulletin TB98.07.17. Follow the latest edition of CFSBCSI (Cold-Formed Steel Building Component Safety Information, by CFSC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per CFSBCSI. Unless noted otherwise, the top chord shall have properly attached structural sheathing and the bottom chord shall have a properly attached rigid ceiling. Permanent bracing systems and associated members and connections, including web CLR's, shall be specified by the Building Designer in accordance with AISI S214 Sections B4.5 and B6.

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 S214 - North American Standard for Cold-Formed Steel Framing - Truss Design, by AISI, or for handling, shipping, installation and bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per S214.

For more information, refer to these websites.
TrusSteel: www.trusssteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84433
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219009
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T03)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W7,W9,W11,W13,W15,W16,W17,W19,W21,W27,W29,W31,W33,W35,W37,W38 33W.75x1.5

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

Special loads

TC: From	90 plf at -2.00 to	90 plf at 10.60
TC: From	45 plf at 10.60 to	45 plf at 34.07
TC: From	90 plf at 34.07 to	90 plf at 46.67
BC: From	4 plf at -2.00 to	4 plf at 0.00
BC: From	20 plf at 0.00 to	20 plf at 10.50
BC: From	10 plf at 10.50 to	10 plf at 34.17
BC: From	20 plf at 34.17 to	20 plf at 44.67
BC: From	4 plf at 44.67 to	4 plf at 46.67

PL: 495.40 lb Conc. Load at (10.50,32.50)
PL: 203.78 lb Conc. Load at (10.66,32.50), (12.66,32.50), (14.66,32.50) (16.66,32.50), (18.66,32.50), (20.66,32.50), (22.00,32.50), (24.00,32.50) (26.00,32.50), (28.00,32.50), (30.00,32.50), (32.00,32.50), (34.00,32.50)
PL: 406.66 lb Conc. Load at (34.17,32.50)

WARNING! This truss is not symmetric, but its exterior geometry makes erection error more probable. It is imperative that this truss be installed properly. Truss manufacturer is to mark this truss for proper erection.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

SPLICE=33W.75x2.25x12" tube insert. Center insert at splice and attach with fasteners as indicated by detail label. See drawing TS002A for splice details H to I.

140 mph wind, 32.38 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

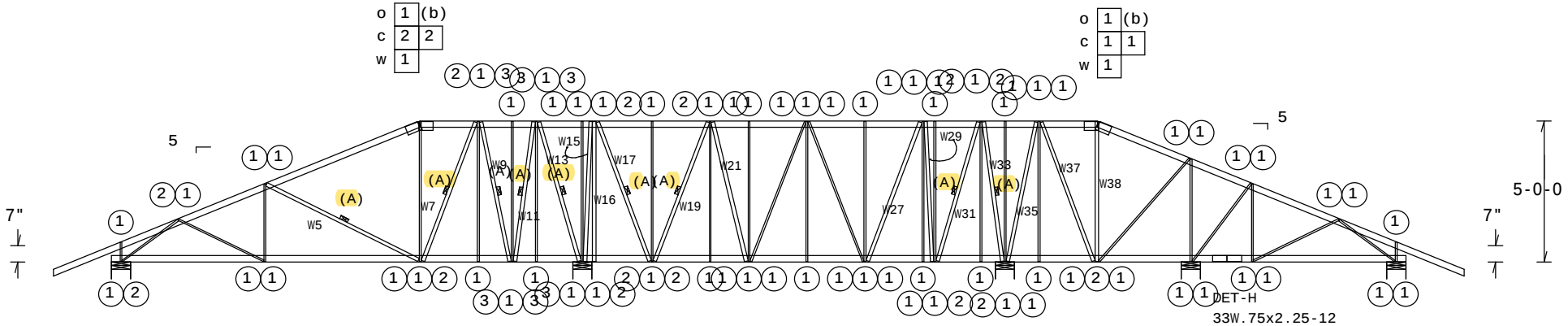
(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-2.00	10.60	Structural Panels
Flat TC	10.60	34.07	Purlins at 24"
Sloped TC	34.07	46.67	Structural Panels
BC	0.00	16.25	Purlins at 45"
BC	16.25	30.83	Purlins at 120"
BC	30.83	37.25	Purlins at 77"
BC	37.25	44.67	Purlins at 89"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.

Deflection meets L/360 live and L/240 total load.



R=1242
U=615
W=8"
Restraint

R=2841
U=2319
W=8"
Restraint

R=1950
U=1594
W=8"
Restraint

R=902
U=372
W=8"
Restraint

R=610
U=223
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:1 FL/-/1/-/-/R/- Scale =.1875"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
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FL COA #0 278

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TC LL	20.0 PSF	REF R6704- 84434
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219049
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T04)

Top chord 33TSC2.75 1.5x2.75-33-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W4 33W.75x2.25 .75x2.25-33-45KSI: :W5 33W.75x1.5 .75x1.5-33-45KSI:

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

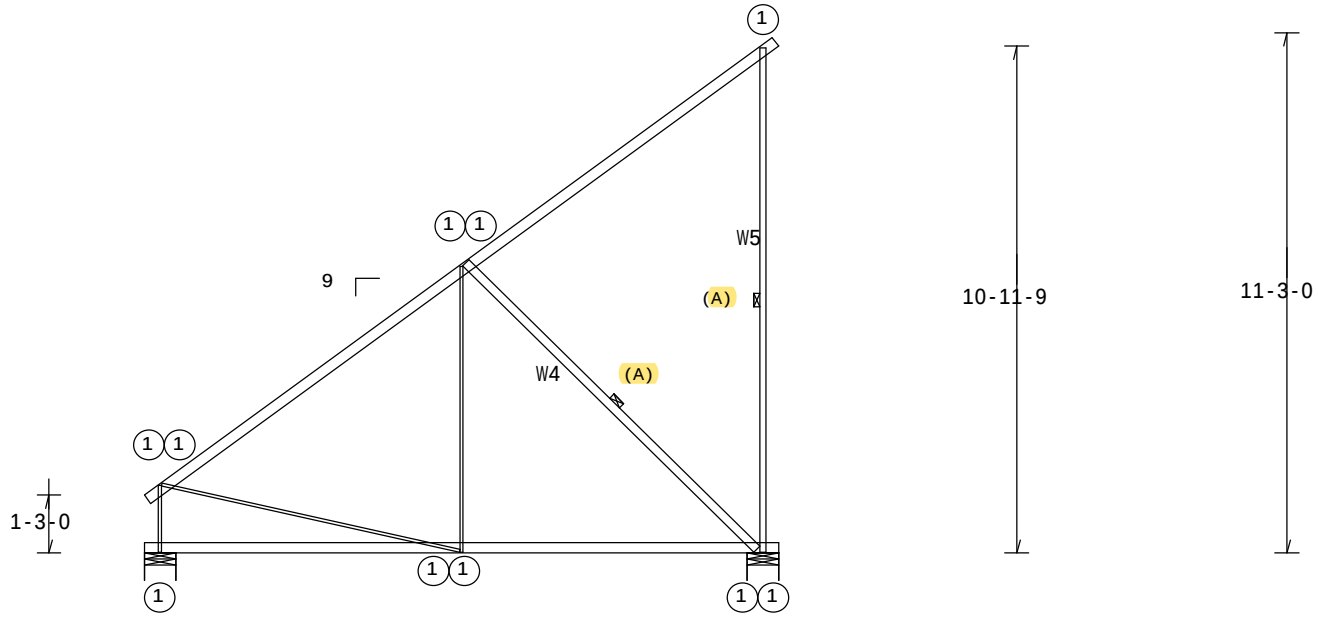
In lieu of rigid ceiling use purlins to brace BC @ 54" oc.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 32.58 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Deflection meets L/360 live and L/240 total load.



10-11-9

11-3-0

13-4-0 Over 2 Supports

R=724
U=0
W=8"
RL=545/-186
Restraint

R=742
Rw=773
U=499
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:10 FL/-/1/-/-/R/- Scale =.25"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84435
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219010
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T05)

Top chord 33TSC2.75 1.5x2.75-33-55KSI :T2 28TSC2.75 1.5x2.75-28-55KSI:
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W4 33W.75x2.25 .75x2.25-33-45KSI: :W5,W6 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 32.36 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.

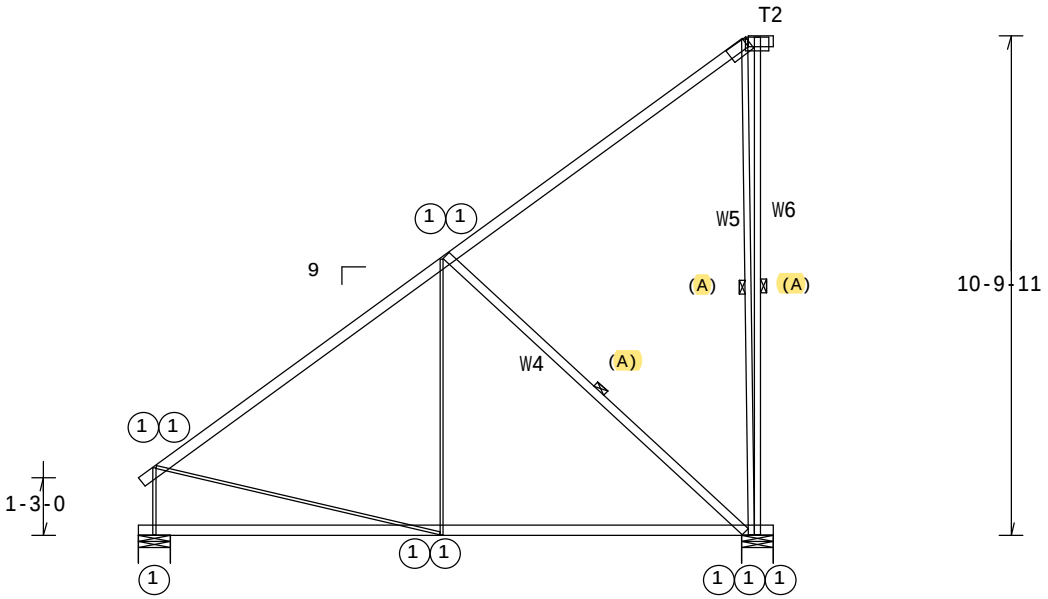
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 55" oc.

o	1	(b)
c	1	1
w	1	1



R=717
U=0
W=8"
RL=522/-178
Restraint

13-4-0 Over 2 Supports

R=750
Rw=756
U=496
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 07.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.25"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84436
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219011
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - T06)

Top chord 33TSC2.75 1.5x2.75-33-55KSI :T2 28TSC2.75 1.5x2.75-28-55KSI:
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W4,W7 33W.75x1.5 .75x1.5-33-45KSI: :W5,W6 33W.75x2.25 .75x2.25-33-45KSI:

140 mph wind, 31.94 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

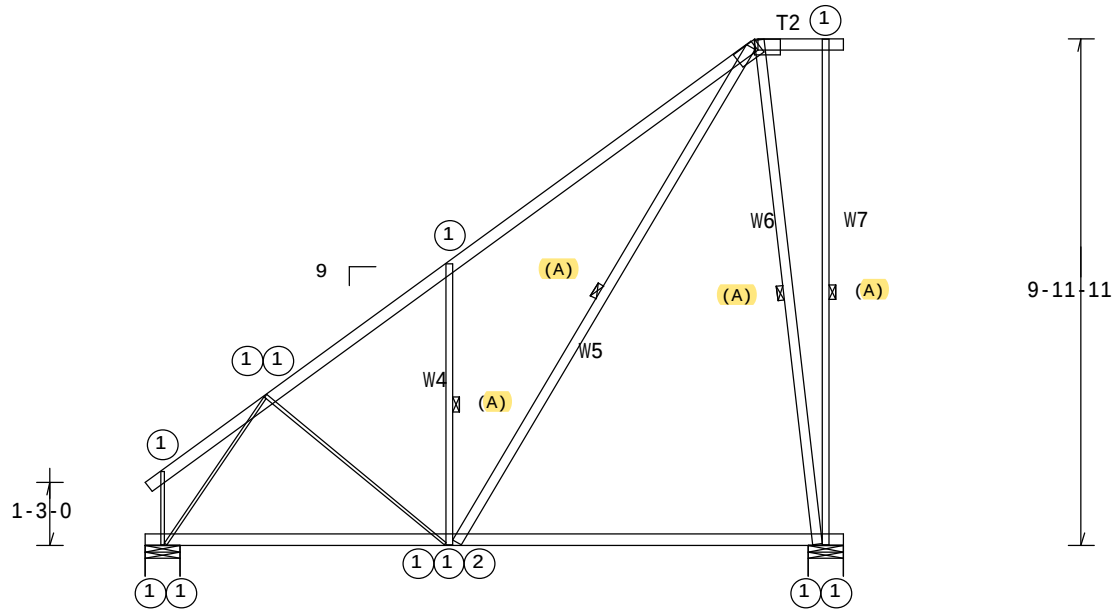
(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 58" oc.

Deflection meets L/360 live and L/240 total load.

o	1	(b)
c	1	1
w	2	1



R=730
U=20
W=8"
RL=477/-162
Restraint

13-4-0 Over 2 Supports

R=737
U=475
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.275"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84437
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219012
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - T07)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W2 33W.75x.75 .75x.75-33-45KSI: :W5 33W.75x2.25 .75x2.25-33-45KSI:

140 mph wind, 31.53 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Deflection meets L/360 live and L/240 total load.

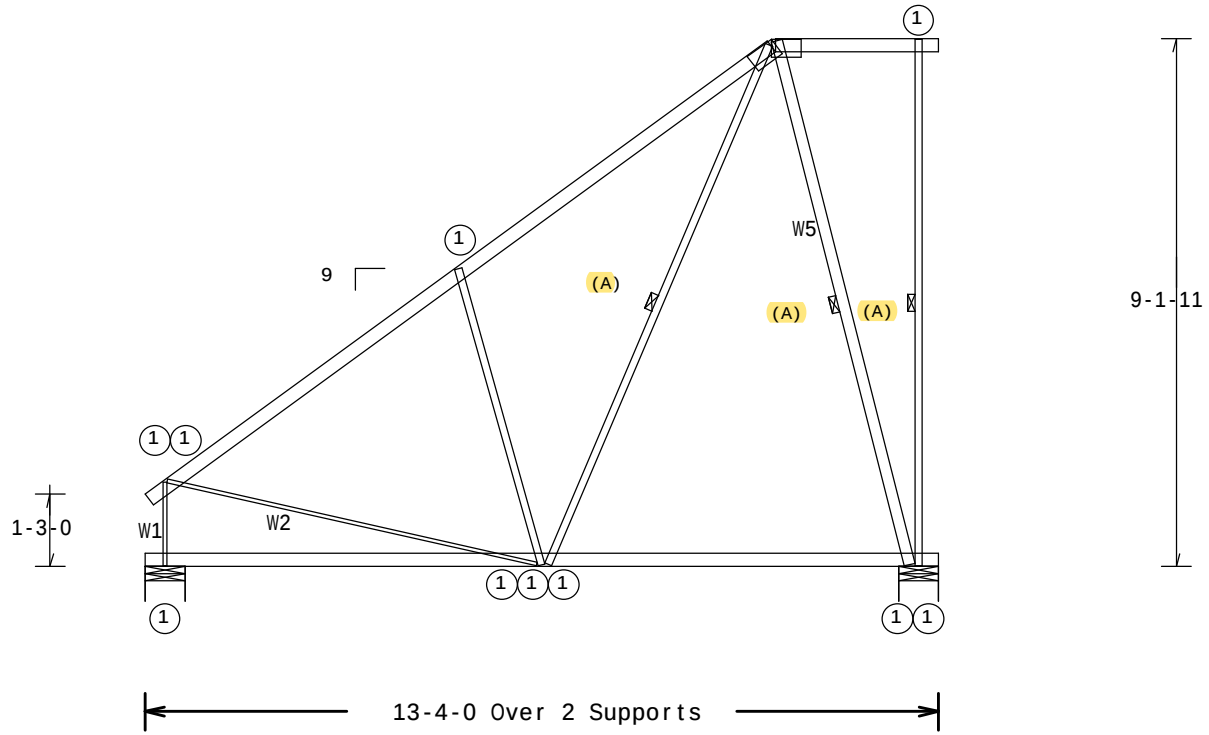
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 59" oc.

	o	c	w
(b)	1	1	1



R=723
U=56
W=8"
RL=433/-146
Restraint

R=743
U=460
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.3125"/Ft.

ALPINE TrusSteel

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Maryland Heights, MO 63043
FL COA #0 278

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 TrusSteel Technical Bulletin TB98.07.17. Follow the latest edition of CFSBCSI (Cold-Formed Steel Building Component Safety Information, by CFSC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per CFSBCSI. Unless noted otherwise, the top chord shall have properly attached structural sheathing and the bottom chord shall have a properly attached rigid ceiling. Permanent bracing systems and associated members and connections, including web CLR's, shall be specified by the Building Designer in accordance with AISI S214 Sections B4.5 and B6.

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A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per S214.

For more information, refer to these websites.
TrusSteel: www.trussteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84438
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219013
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T08)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI :W1 33W.75x.75 .75x.75-33-45KSI:

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

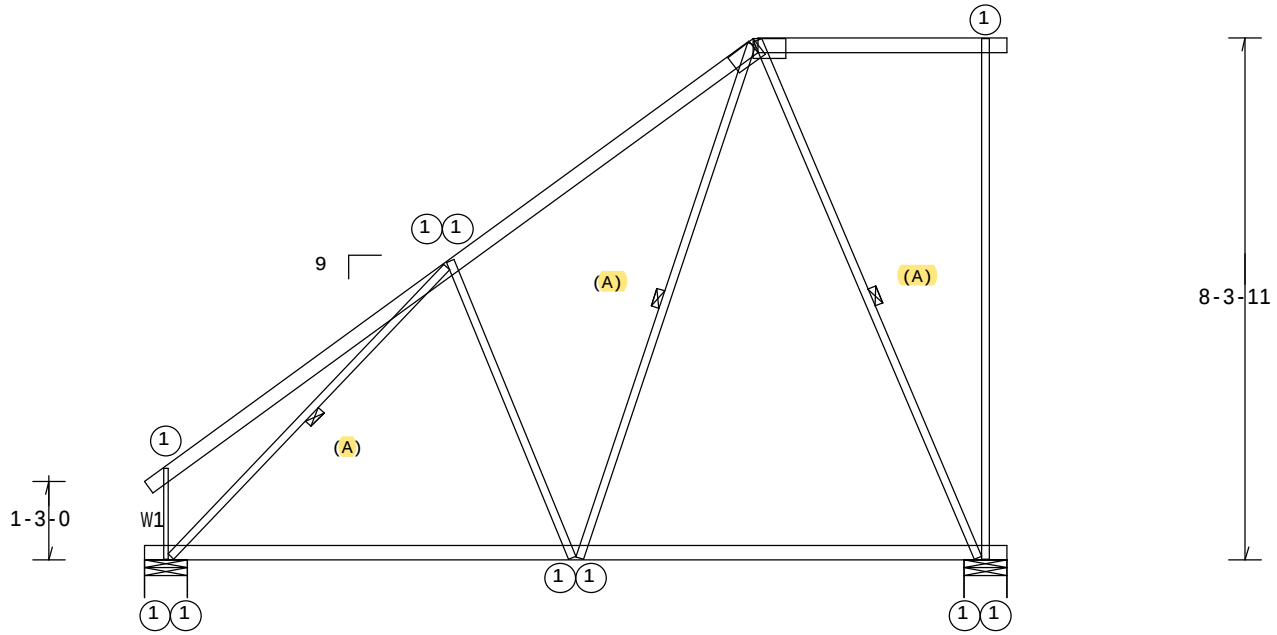
Deflection meets L/360 live and L/240 total load.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 31.11 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 67" oc.

		(b)
o	1	1
c	1	1
w	1	1



13-4-0 Over 2 Supports

R=732
U=92
W=8"
RL=388/-130
Restraint

R=735
U=431
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.34"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
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FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84439
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219014
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T09)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W3 33W.75x.75 .75x.75-33-45KSI:

140 mph wind, 30.69 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

o	1	(b)
c	1	1
w	1	1

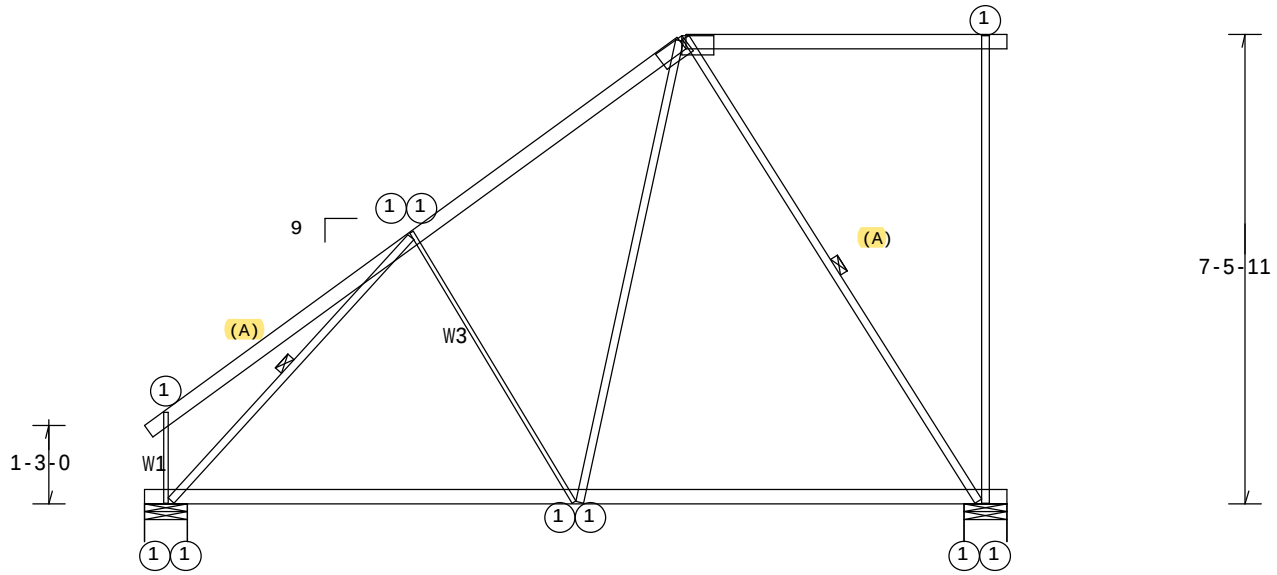
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 67" oc.

Deflection meets L/360 live and L/240 total load.



R=732
U=125
W=8"
RL=344/-115
Restraint

R=735
U=404
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.34"/Ft.

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Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84440
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219015
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - T10)

Top chord 28TSC2.75 1.5x2.75-28-55KSI :T2 33TSC2.75 1.5x2.75-33-55KSI:
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W6 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 30.28 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

o	1	(b)
c	1	1
w	1	1

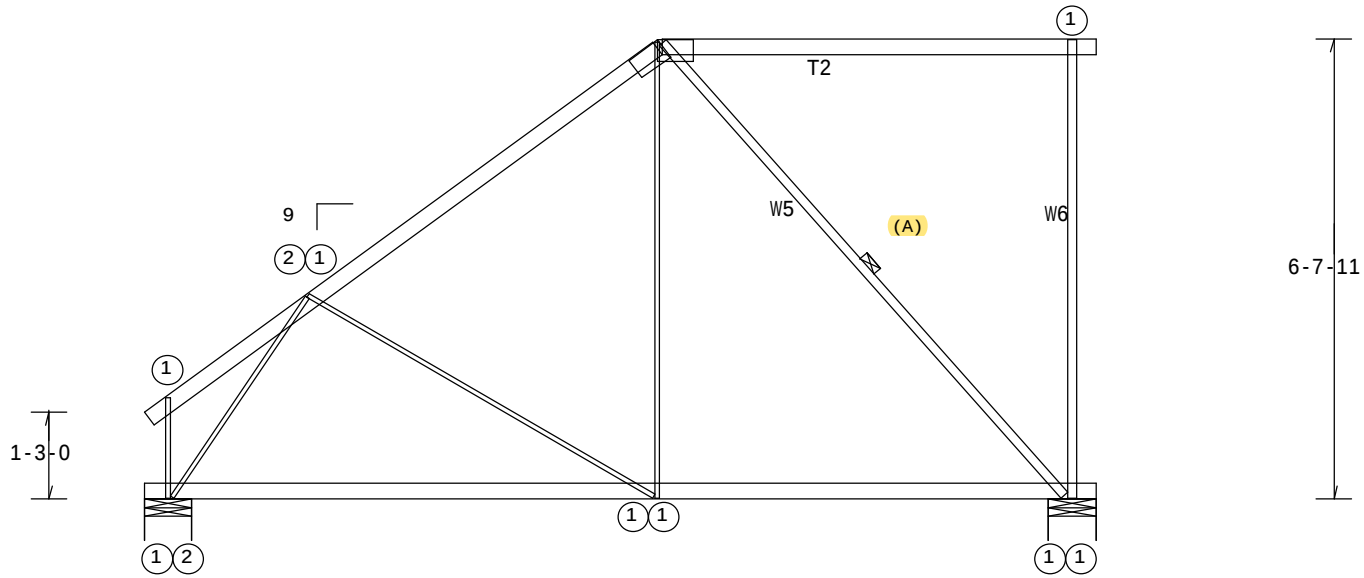
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 63" oc.

Deflection meets L/360 live and L/240 total load.



R=731
U=155
W=8"
RL=300/-99
Restraint

R=736
U=379
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.375"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84441
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219016
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - T11)

Top chord 33TSC2.75 1.5x2.75-33-55KSI :T2 28TSC2.75 1.5x2.75-28-55KSI:
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W6 33W.75x1.5 .75x1.5-33-45KSI:

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

End verticals not exposed to wind pressure.

Left cantilever is not exposed to wind

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Deflection meets L/360 live and L/240 total load.

o	1	(b)
c	1	1
w	1	

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

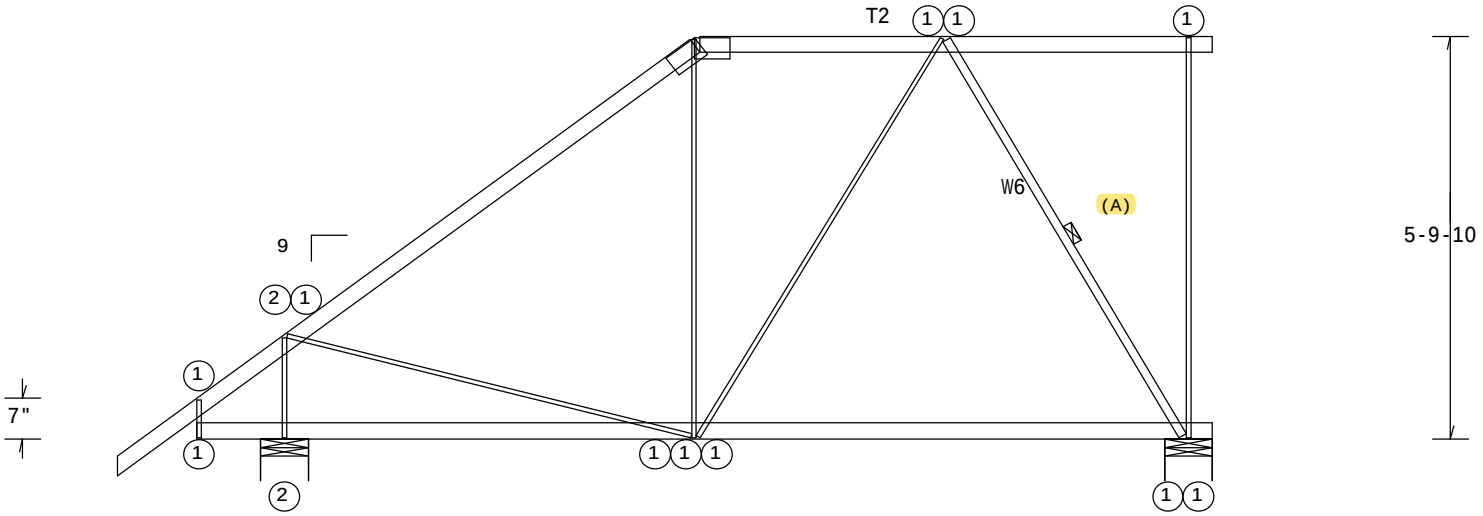
140 mph wind, 29.11 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	6.96	Structural Panels
Flat TC	6.96	14.22	Purlins at 24"
BC	0.00	1.22	Purlins at 15"
BC	1.22	14.22	Purlins at 69"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



1-1-5 10"11

14-2-11 Over 2 Supports

R=938
U=296
W=8"
RL=354/-133
Restraint

R=720
U=341
W=8"
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.375"/Ft.

ALPINE TrusSteel
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Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84442
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219017
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - T12)

Top chord 28TSC2.75 1.5x2.75-28-55KSI :T2 33TSC2.75 1.5x2.75-33-55KSI:
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W3,W5,W8,W9,W10 33W.75x1.5 .75x1.5-33-45KSI:
:W11,W12,W13 33W.75x2.25 .75x2.25-33-45KSI:

Special loads

TC: From	90 plf at	-1.11 to	90 plf at	5.85	
TC: From	45 plf at	5.85 to	45 plf at	13.95	
TC: From	90 plf at	13.95 to	90 plf at	14.22	
BC: From	4 plf at	-1.11 to	4 plf at	0.00	
BC: From	8 plf at	0.00 to	8 plf at	0.89	
BC: From	20 plf at	0.89 to	20 plf at	5.84	
BC: From	10 plf at	5.84 to	10 plf at	13.95	
BC: From	20 plf at	13.95 to	20 plf at	14.22	

PL: 495.40 lb Conc. Load at (5.84,26.67)
PL: 527.68 lb Conc. Load at (5.95,28.81), (7.95,28.82), (9.95,28.82) (11.95,28.82), (13.95,28.82)

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Deflection meets L/360 live and L/240 total load.

o	1	(b)
c	3	2
w	1	1

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

(b) 33TSBUC3.5 20ga. Bent-U connector required. Square indicates min. fastener qty. thru connector overlap. See drawing TS004 for peak connector detail.

140 mph wind, 28.69 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

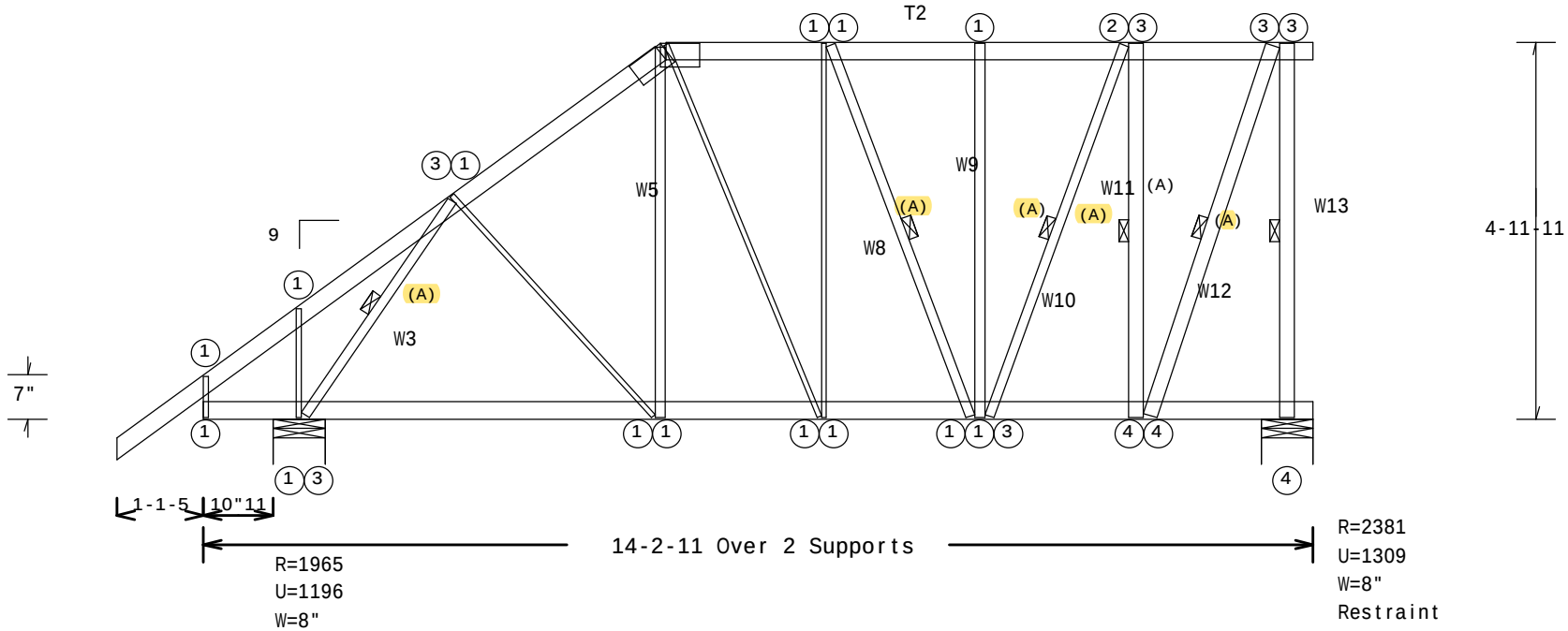
Wind loads and reactions based on MWFRS.

Left cantilever is not exposed to wind

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	5.85	Structural Panels
Flat TC	5.85	14.22	Purlins at 24"
BC	0.00	1.35	Purlins at 16"
BC	1.35	14.22	Purlins at 46"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:3 FL/-/1/-/-/R/- Scale =.4375"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R6704- 84443
TC DL	25.0 PSF	DATE	08/06/20
BC DL	10.0 PSF	DRW	MOUSR6704 20219047
BC LL	0.0 PSF	MO-ENG	cwc/BWC
TOT.LD.	55.0 PSF		
SPACING	24.0"	JREF-	1WXJ6704Z02

08/11/2020

(S1401-Belmont Academy -(Escort Load) -- , ** - T13)

Top chord 33TSC2.75 1.5x2.75-33-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W5 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

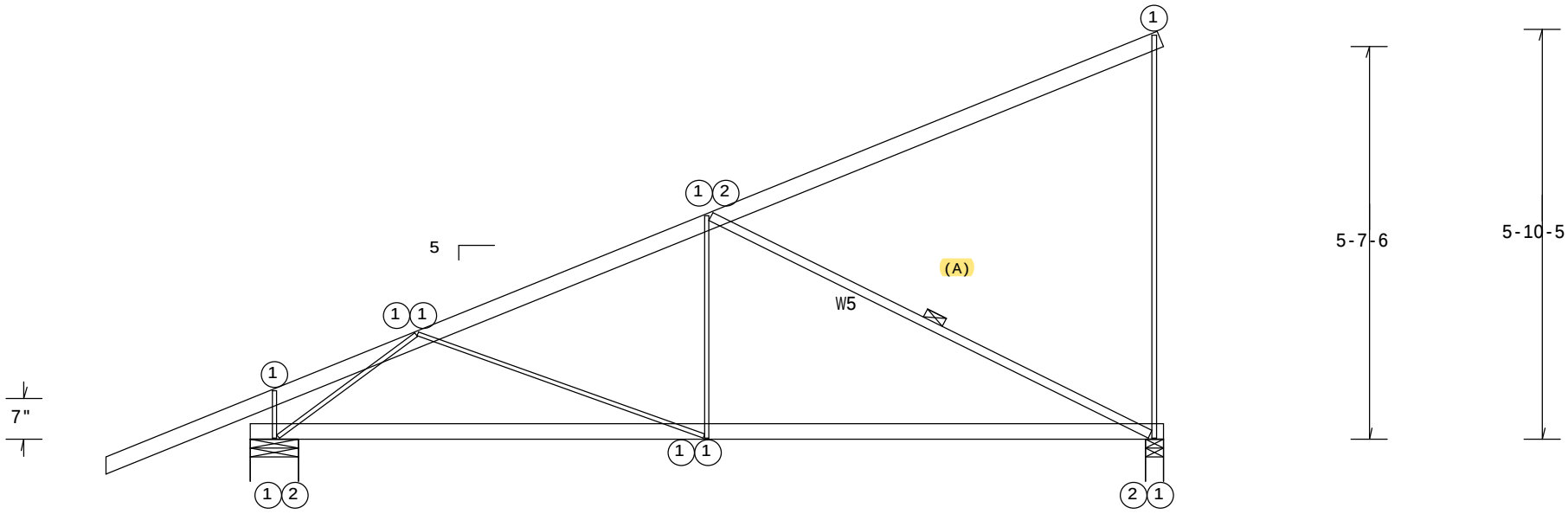
Deflection meets L/360 live and L/240 total load.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

In lieu of rigid ceiling use purlins to brace BC @ 55" oc.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:5 FL/-/1/-/-/R/- Scale =.4375"/Ft.

ALPINE TrusSteel

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FL COA #0 278

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For more information, refer to these websites.
TrusSteel: www.trussteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84444
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219018
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - T14)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W-Swage 1.5x1.5-33-45KSI
:W1,W2 33W.75x.75 .75x.75-33-45KSI:

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

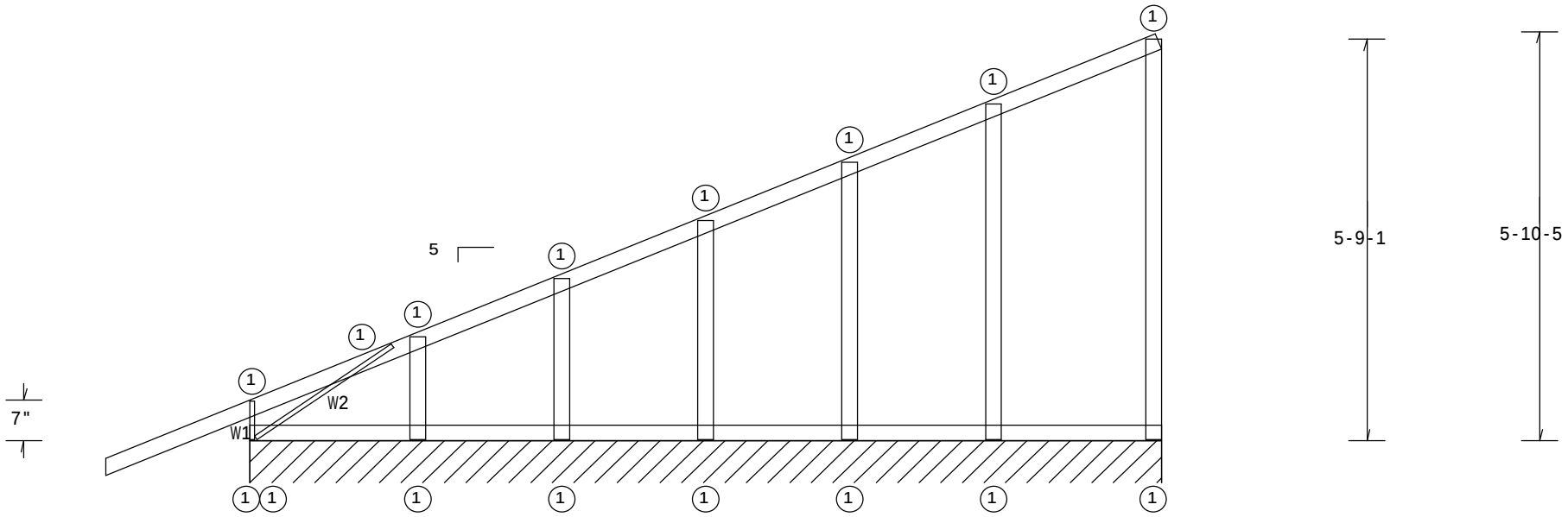
WEBS DESIGNED TO TRANSFER WIND PRESSURES TO TOP AND BOTTOM CHORD DIAPHRAGMS OR BRACING SYSTEMS, DESIGNED BY OTHERS. TRUSS CHORDS DESIGNED FOR VERTICAL LOADS ONLY.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

Deflection meets L/360 live and L/240 total load.



2-0-0

12-8-0 Over Continuous Support

R=405	R=129	R=245	R=216	R=211	R=263	R=112
U=226	U=169	U=132	U=114	U=109	U=218	U=103
W=152"						
RL=463/-89						

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC 2017 2001.01.01.0616.17 QTY:1 FL/-/1/-/-/R/- Scale =.4375"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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 TrusSteel Technical Bulletin TB98.07.17. Follow the latest edition of CFSBCSI (Cold-Formed Steel Building Component Safety Information, by CFSC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per CFSBCSI. Unless noted otherwise, the top chord shall have properly attached structural sheathing and the bottom chord shall have a properly attached rigid ceiling. Permanent bracing systems and associated members and connections, including web CLR's, shall be specified by the Building Designer in accordance with AISI S214 Sections B4.5 and B6.

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 S214 - North American Standard for Cold-Formed Steel Framing - Truss Design, by AISI, or for handling, shipping, installation and bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per S214.

For more information, refer to these websites.
TrusSteel: www.trusssteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84445
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219019
BC LL	0.0 PSF	MO-ENG BWC/BWC
TOT.LD.	55.0 PSF	SEQN- 15547 REV
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - T15)

Top chord 33TSC2.75 1.5x2.75-33-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W6 33W.75x1.5 .75x1.5-33-45KSI:

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 59" oc.

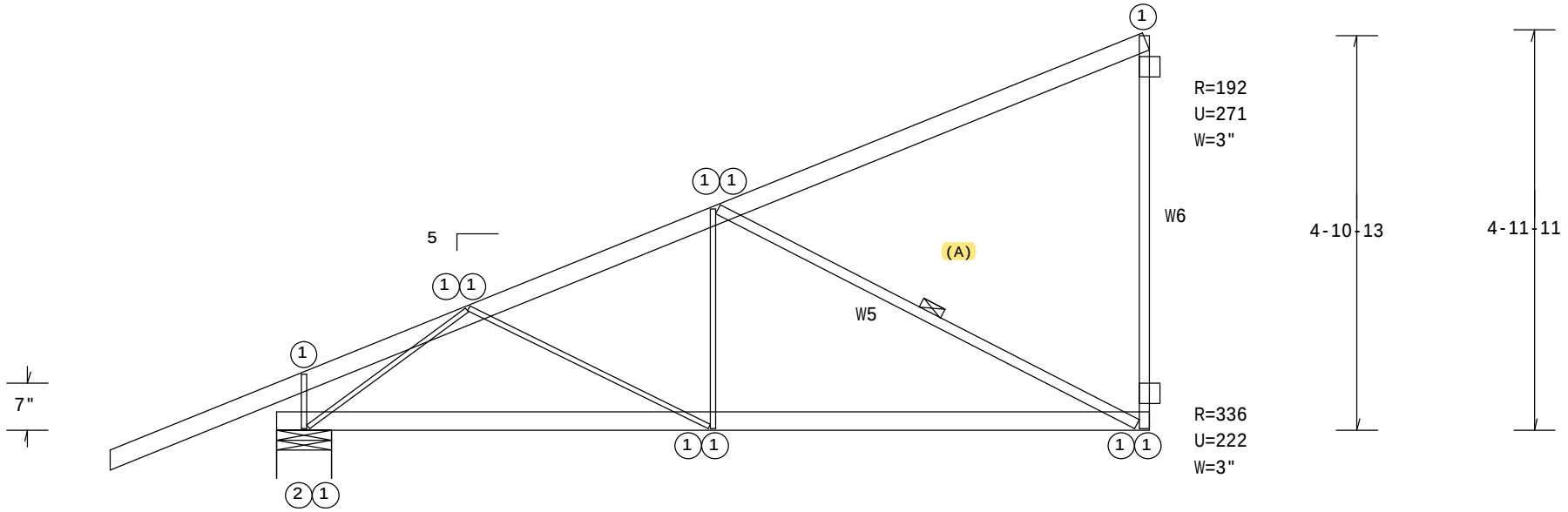
See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

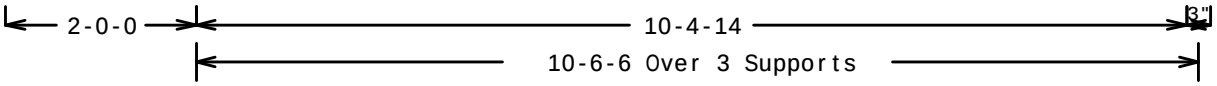
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 28.69 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Deflection meets L/360 live and L/240 total load.





R=819
U=590
W=8"
RL=490/-52
Restraint

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:10 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84446
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219020
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - VA01)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W2,W3,W4 33W.75x.75 .75x.75-33-45KSI:
:W8,W9,W10 33W.75x2.25 .75x2.25-33-45KSI:

140 mph wind, 32.21 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Deflection meets L/360 live and L/240 total load.

See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

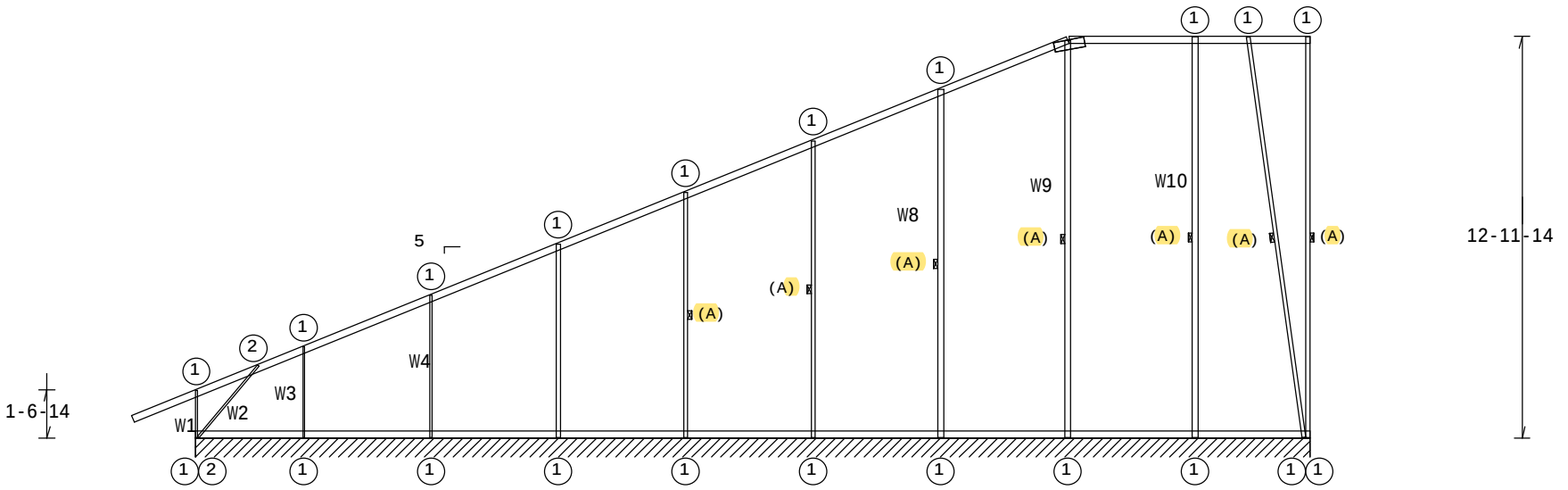
(b) 43TSSPC3.75 18ga. Straight U connector required. See drawing TS004B for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 120" oc.

	(b)
c	1 1
w	1



2-0-0

37-0-0 Over Continuous Support

R=422	R=351	R=458	R=436	R=444	R=428	R=486	R=368	R=427	R=218
U=0	U=490	U=105	U=164	U=152	U=146	U=225	U=149	U=139	U=140
W=420"									
RL=676/-104									

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.1875"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84447
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219021
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

(S1401-Belmont Academy -(Escort Load) -- , ** - VA02)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W2,W3,W4,W5 33W.75x.75 .75x.75-33-45KSI:
:W9 33W.75x2.25 .75x2.25-33-45KSI:

140 mph wind, 33.44 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Deflection meets L/360 live and L/240 total load.

See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

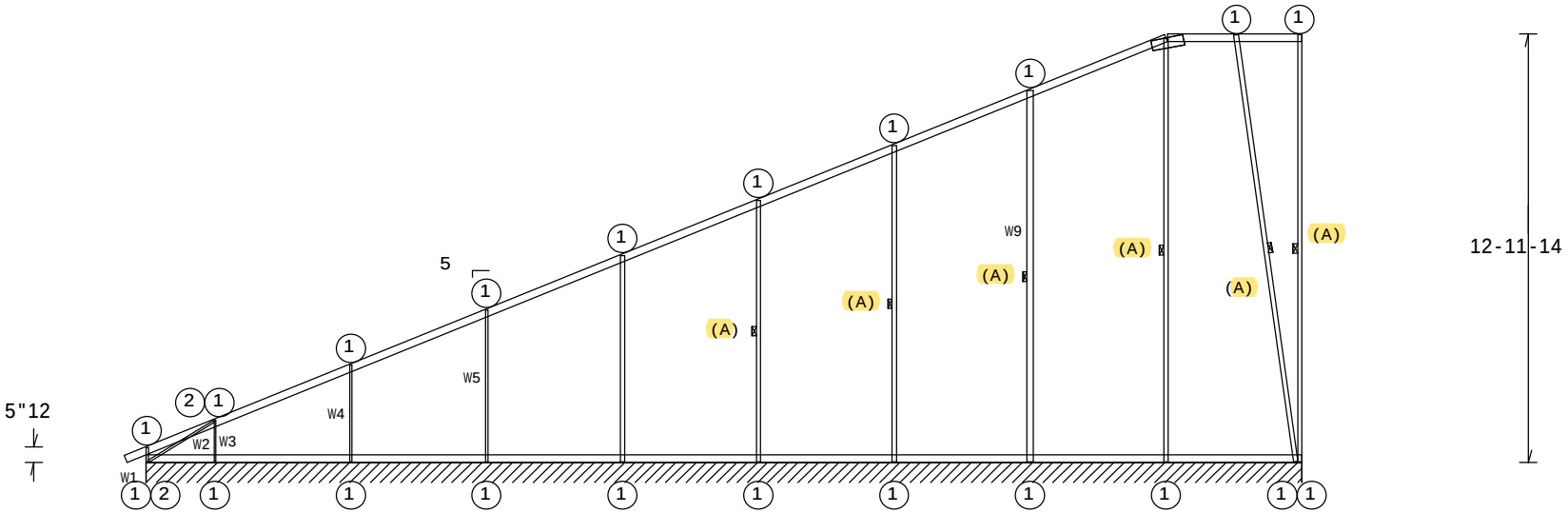
(b) 43TSSPC3.75 18ga. Straight U connector required. See drawing TS004B for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 120" oc.

	(b)	
c	1	1
w	1	



7"11

34-8-0 Over Continuous Support

R=147	R=356	R=456	R=435	R=441	R=443	R=428	R=487	R=289	R=322
Rw=344	U=294	U=154	U=153	U=154	U=157	U=147	U=225	U=109	U=159
U=0									
W=408.35"									
H=684.00									

GALVANIZATION G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.1875"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84448
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219022
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VA03)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W6,W7,W8,W10 33W.75x1.5 .75x1.5-33-45KSI:
:W9 33W.75x2.25 .75x2.25-33-45KSI:

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

Deflection meets L/360 live and L/240 total load.

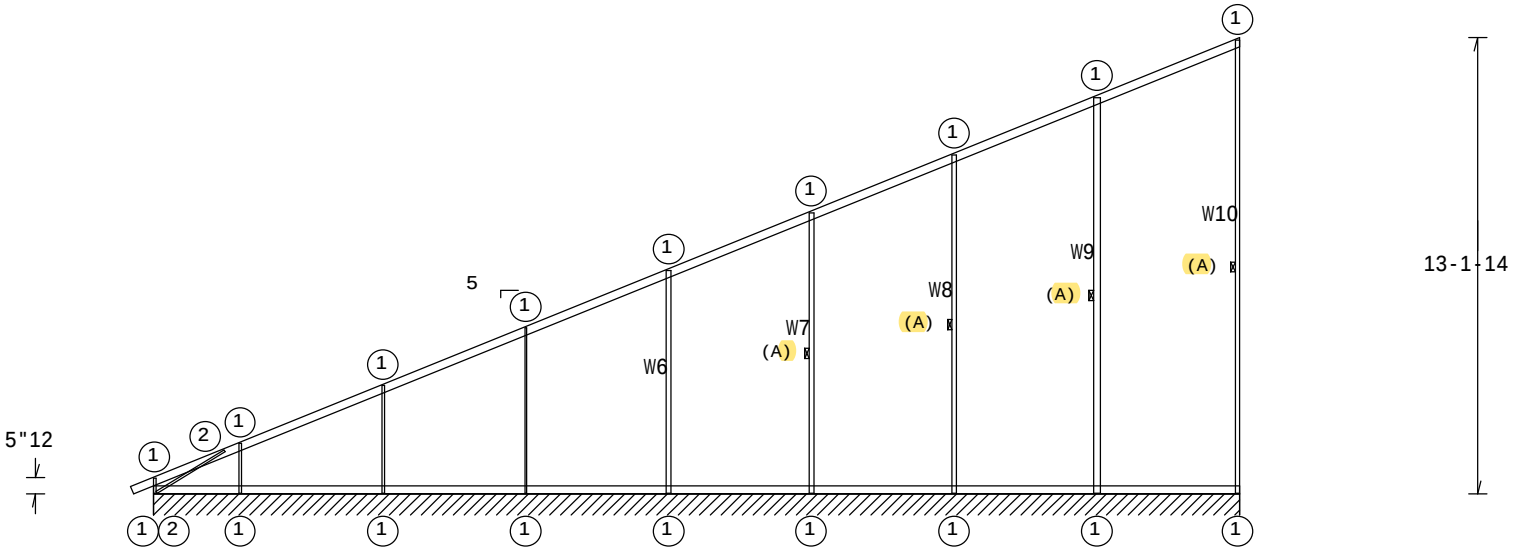
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 35.03 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.



7"11

31-0-13 Over Continuous Support

R=158 Rw=336 U=0 W=365.15" Rb=695/79
R=378 U=284
R=454 U=150
R=436 U=157
R=441 U=155
R=443 U=158
R=427 U=151
R=493 U=212
R=178 U=104

GALVANIZATION G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.1875"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84449
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219023
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VA04)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W2,W3,W4 33W.75x.75 .75x.75-33-45KSI:

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 114" oc.

Deflection meets L/360 live and L/240 total load.

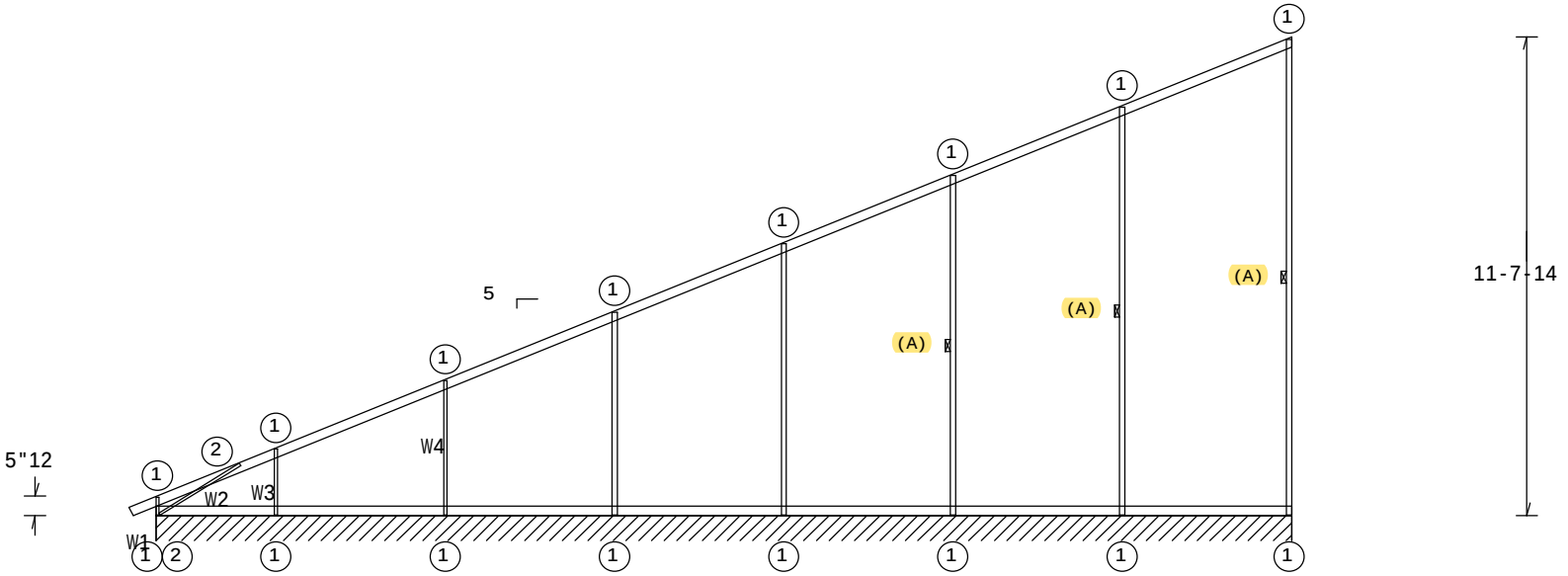
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 35.78 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.



7"11

27-5-10 Over Continuous Support

R=184	R=400	R=449	R=438	R=443	R=428	R=491	R=178
Rw=337	U=340	U=219	U=235	U=232	U=226	U=258	U=105
U=0							
W=321.95"							
PL=763/-74							

GALVANIZATION G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.225"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84450
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219024
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VA05)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W6,W7,W8 33W.75x1.5 .75x1.5-33-45KSI:

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

Deflection meets L/360 live and L/240 total load.

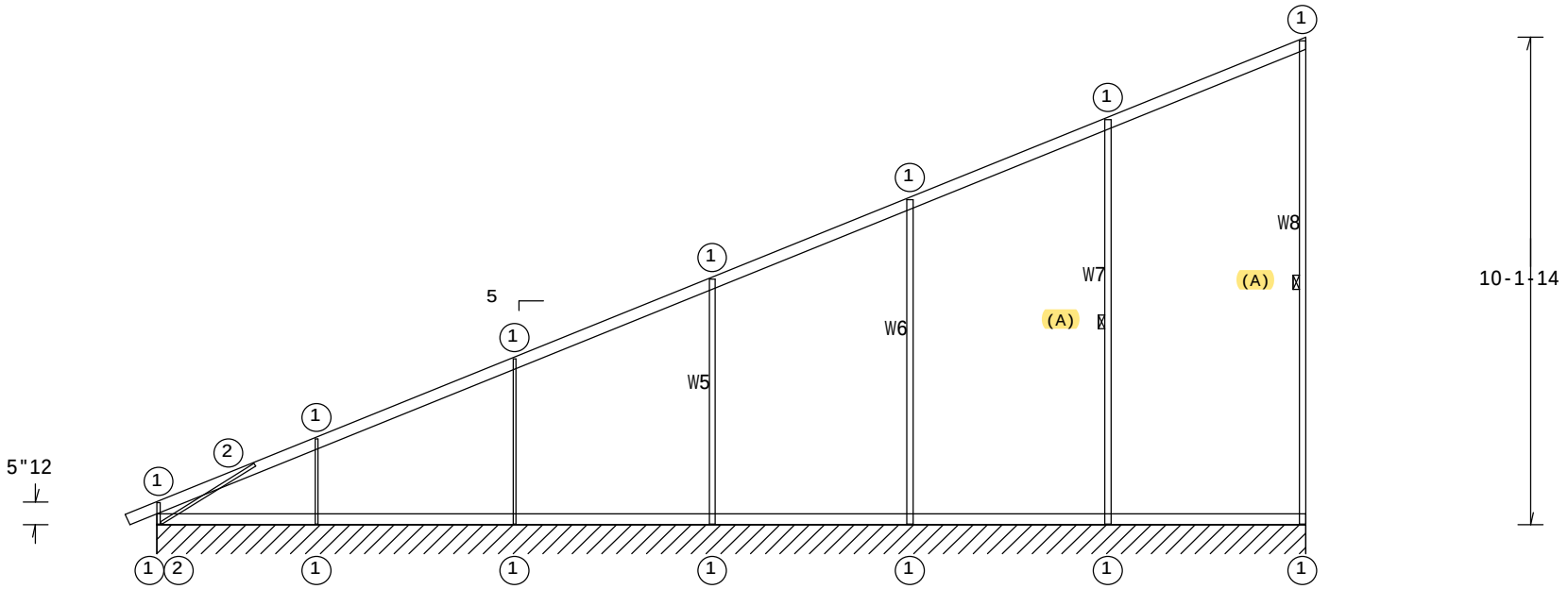
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 36.53 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.



1"11

23-10-7 Over Continuous Support

R=208	R=424	R=443	R=443	R=428	R=492	R=178
Rw=260	U=333	U=216	U=239	U=225	U=260	U=106
U=0						
W=278.75"						
RL=6661-63						

GALVANIZATION G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.275"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84451
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219025
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VA06)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W6,W7 33W.75x1.5 .75x1.5-33-45KSI:

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

Deflection meets L/360 live and L/240 total load.

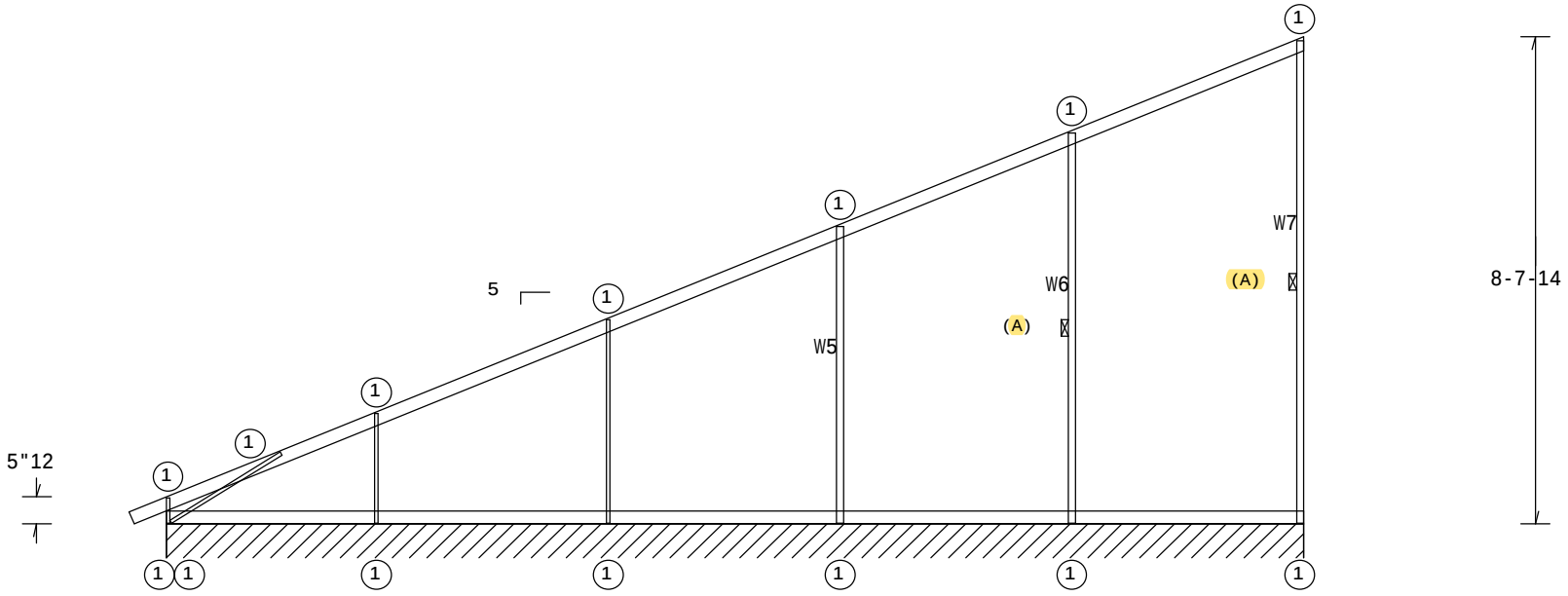
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 37.28 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.3125"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

WARNING! READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

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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 S214 - North American Standard for Cold-Formed Steel Framing - Truss Design, by AISI, or for handling, shipping, installation and bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per S214.

For more information, refer to these websites.
TrusSteel: www.trussteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84452
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219026
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VA07)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W5 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 38.03 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

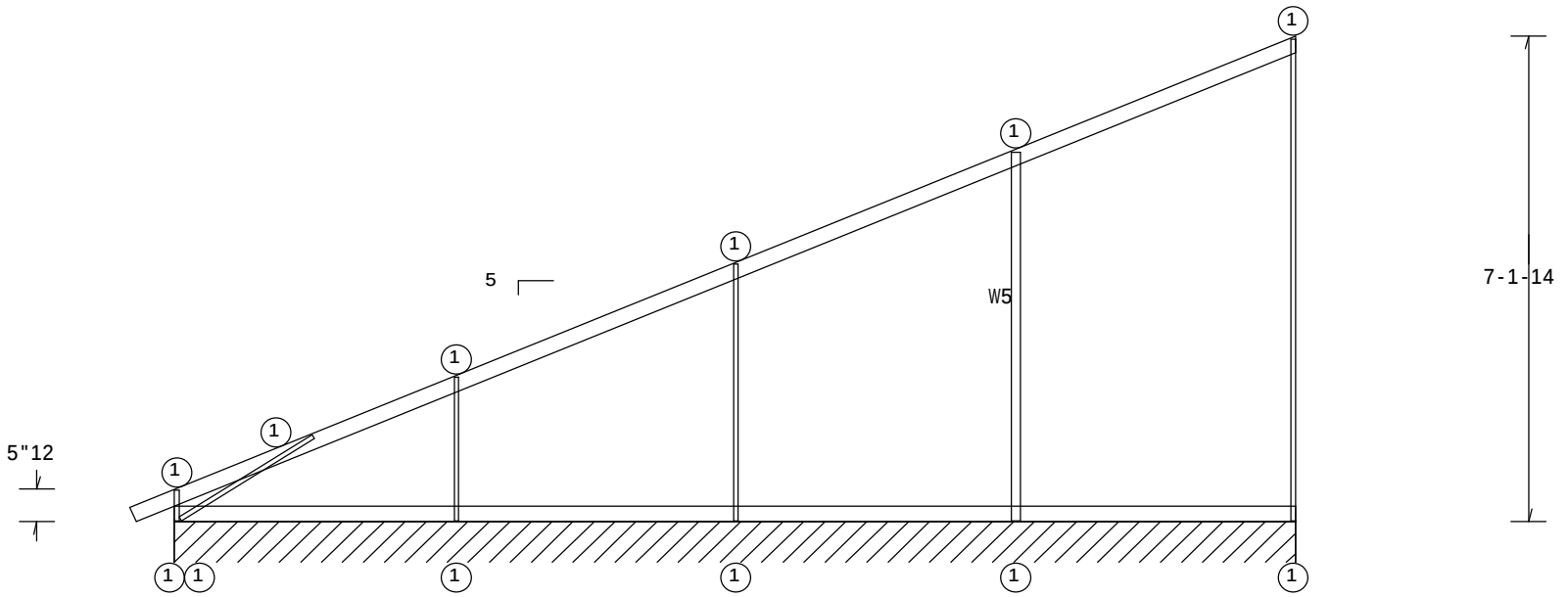
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.375"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84453
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219027
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - VA08)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 38.78 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

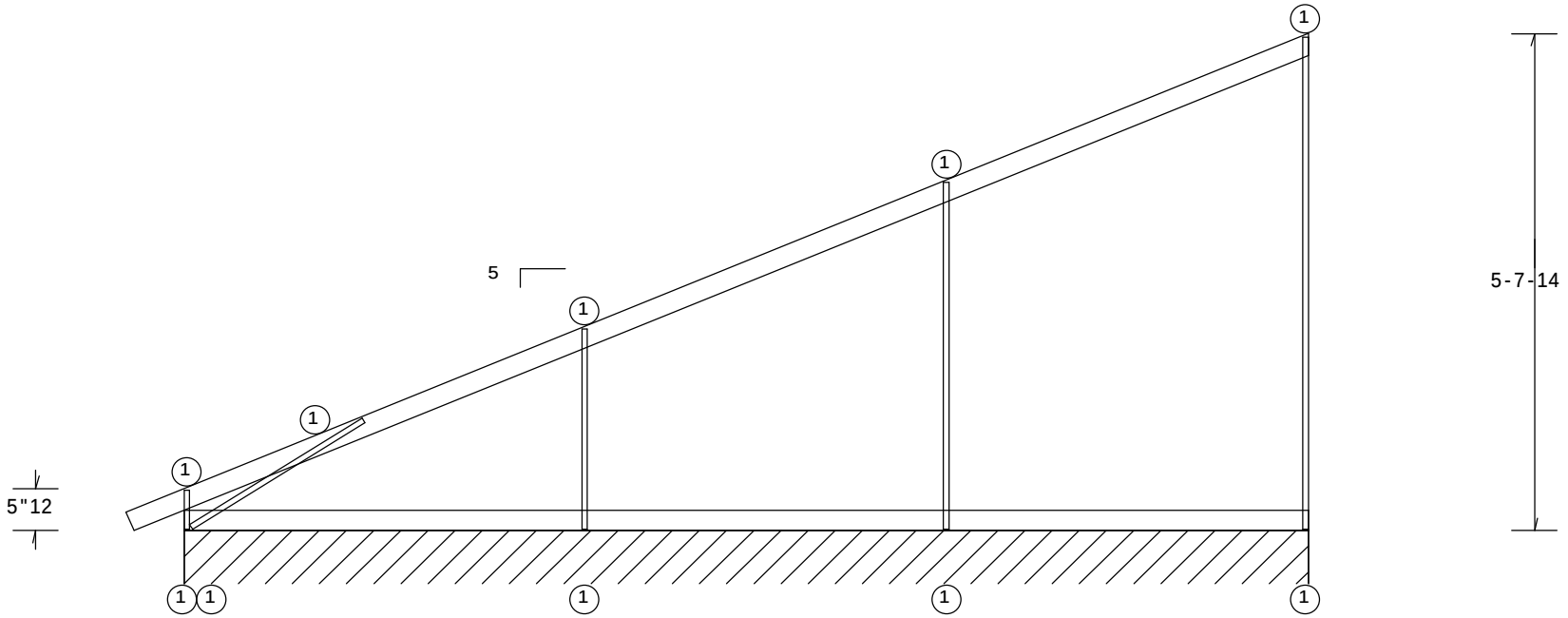
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84454
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219028
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VA09)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 39.53 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 106" oc.

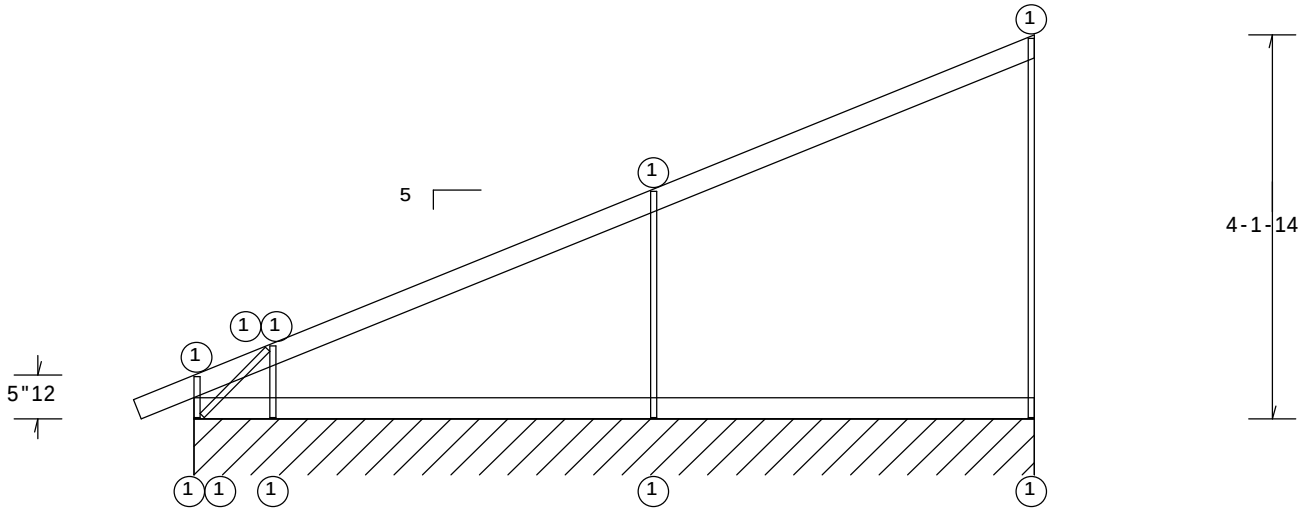
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel
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FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84455
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219029
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - VA10)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 40.28 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 63" oc.

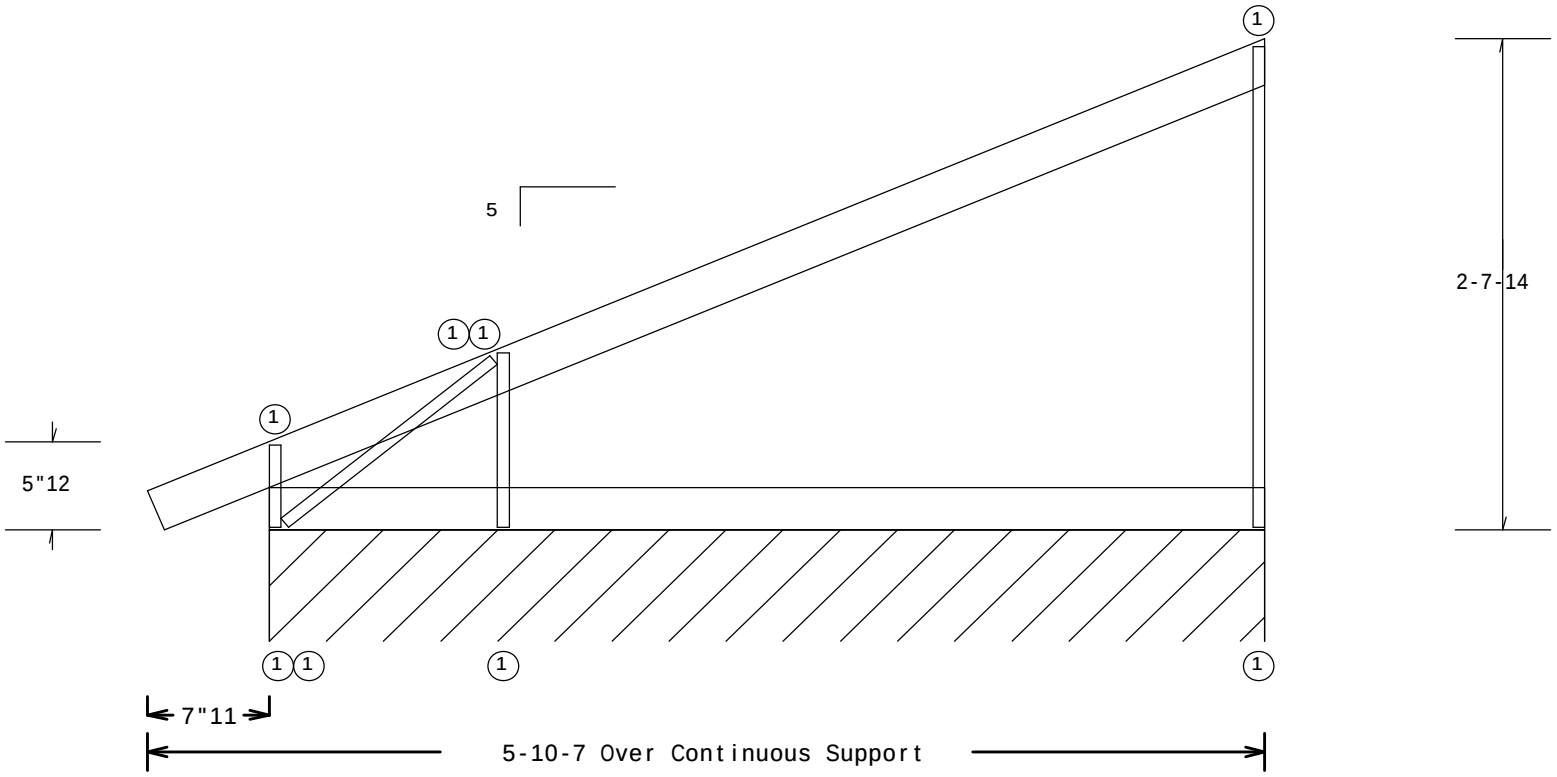
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =1"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84456
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219030
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

(S1401-Belmont Academy -(Escort Load) -- , ** - VA11)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 41.03 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 20" oc.

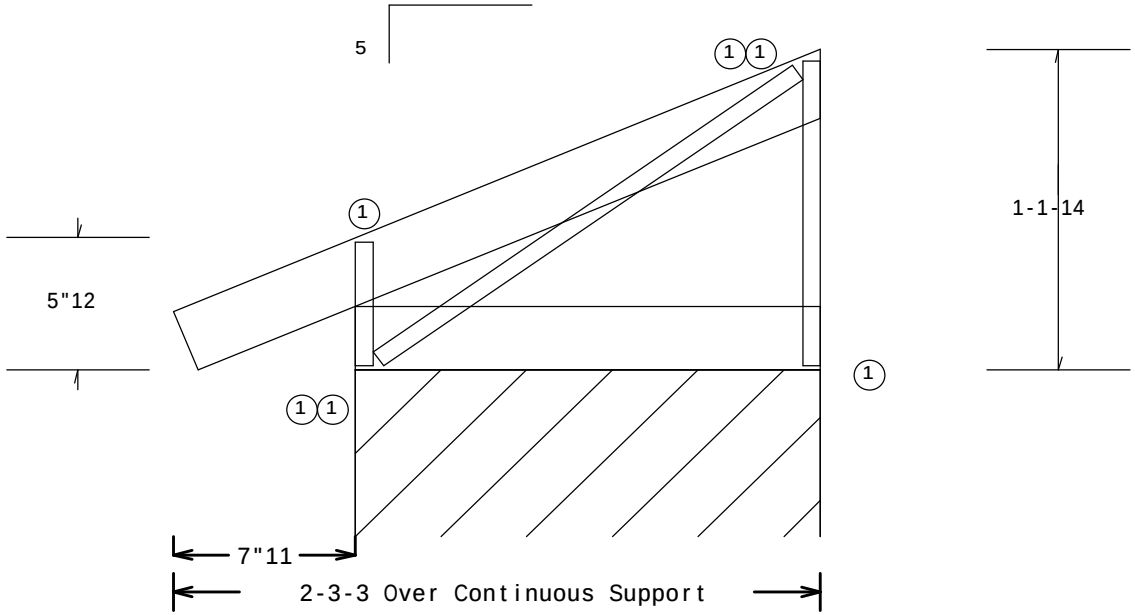
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



R=167 R=72
U=187 U=140
W=19.55"
RL=151

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =1.5"/Ft.

ALPINE TrusSteel

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FL COA #0 278

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TC LL	20.0 PSF	REF R6704- 84457
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219031
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

(S1401-Belmont Academy -(Escort Load) -- , ** - VB01)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x1.5 .75x1.5-33-45KSI
:W1,W3 33W.75x.75 .75x.75-33-45KSI:

140 mph wind, 34.63 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

Deflection meets L/360 live and L/240 total load.

See DWG TS026, TS026A, or TS026B for the applicable valley detail.

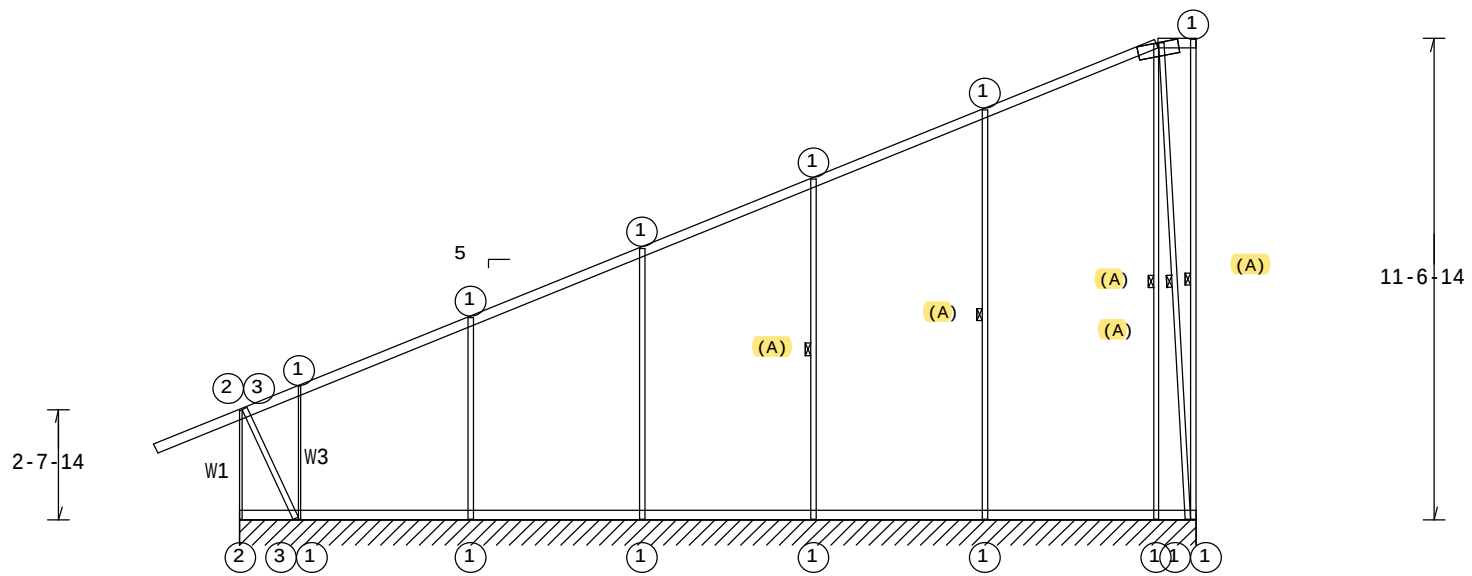
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

(b) 43TSSPC3.75 18ga. Straight U connector required. See drawing TS004B for peak connector detail.

Wind loads and reactions based on both MWFRS and C&C.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" oc, all BC @ 120" oc.

	(b)
c	1 1
w	1 1



2-0-0

24-4-0 Over Continuous Support

R=358	R=189	R=460	R=438	R=430	R=487	R=195	R=88
Rw=1286	Rw=247	U=260	U=223	U=224	U=262	U=0	U=157
U=3	U=1302						
W=268"							
PL=641/576							

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.225"/Ft.

ALPINE TruSteel
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TC LL	20.0 PSF	REF	R6704- 84458
TC DL	25.0 PSF	DATE	08/06/20
BC DL	10.0 PSF	DRW	MOUSR6704 20219032
BC LL	0.0 PSF	MO-ENG	cwc/BWC
TOT.LD.	55.0 PSF		
SPACING	24.0"	JREF-	1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - VB02)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W6,W7,W8 33W.75x1.5 .75x1.5-33-45KSI:

End verticals not exposed to wind pressure.

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

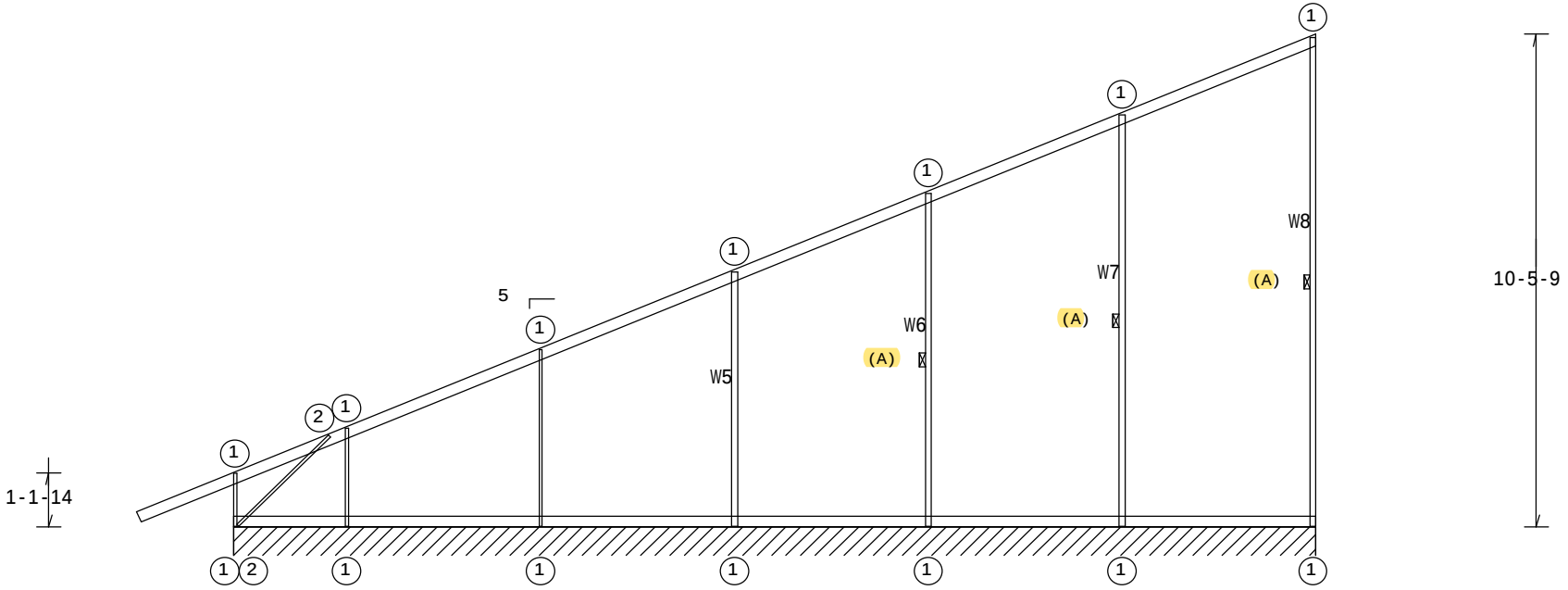
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 34.82 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Deflection meets L/360 live and L/240 total load.



2-0-0

24-4-0 Over Continuous Support

R=368	R=276	R=464	R=438	R=429	R=491	R=178
Rw=401	U=486	U=224	U=233	U=223	U=256	U=104
U=31						
W=268"						
RL=667/-78						

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.275"/Ft.

ALPINE TrusSteel

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BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84459
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219033
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VB03)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W5,W6,W7 33W.75x1.5 .75x1.5-33-45KSI:

(A) Continuous Lateral Restraint (CLR) equally spaced on member.

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

Deflection meets L/360 live and L/240 total load.

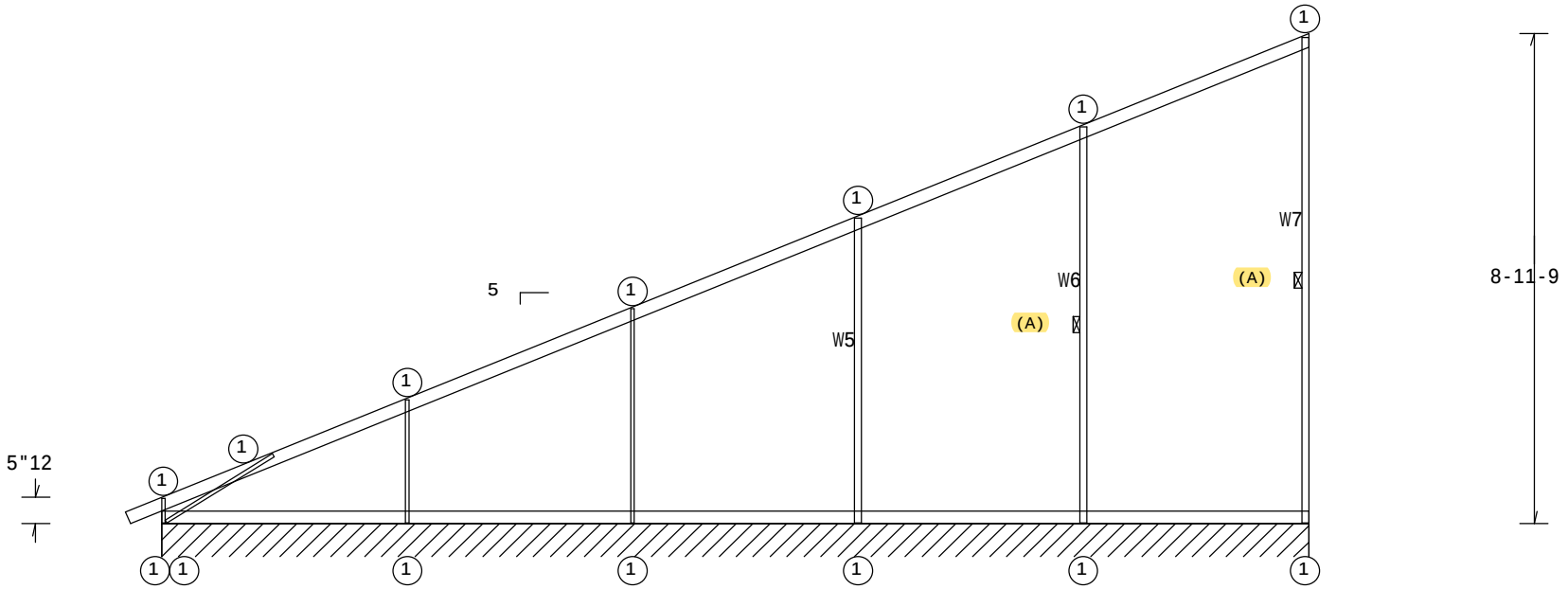
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 35.51 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.3125"/Ft.

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BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84460
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219034
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VB04)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W6,W7 33W.75x1.5 .75x1.5-33-45KSI:

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

Deflection meets L/360 live and L/240 total load.

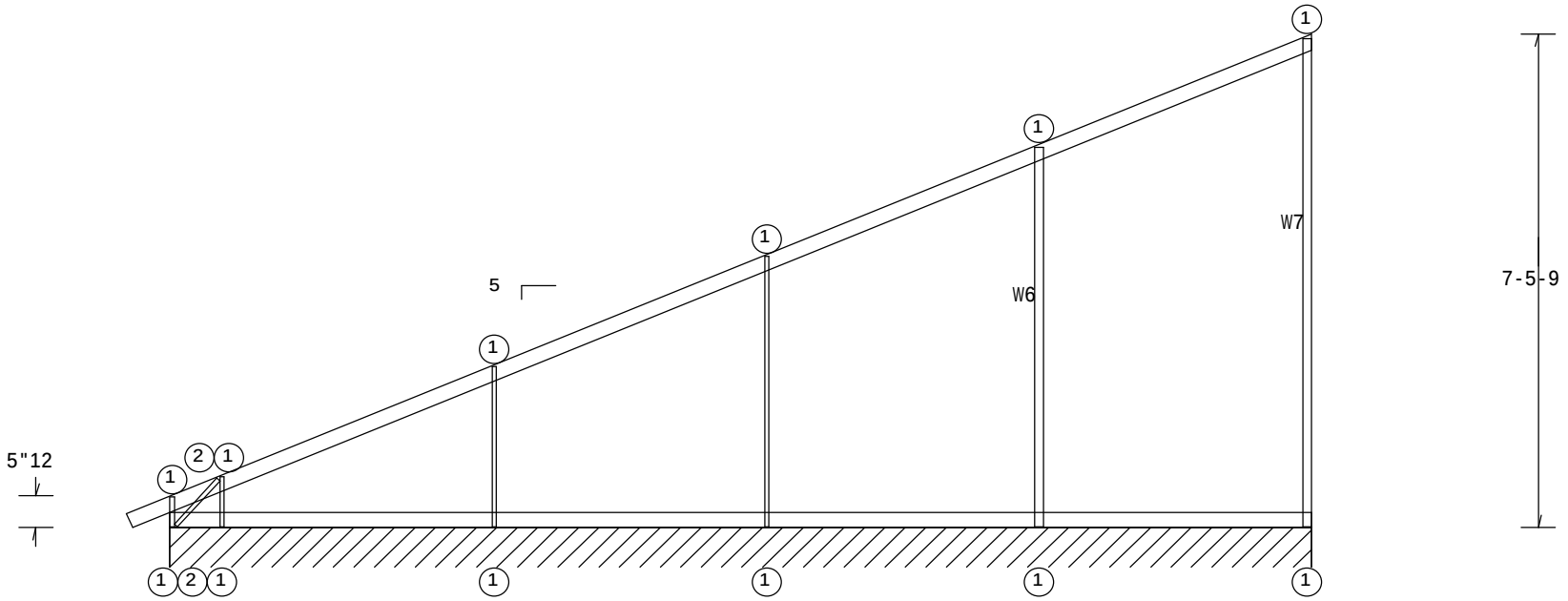
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 36.26 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.



7"11

17-4-13 Over Continuous Support

R=-38					
Rw=477	R=392	R=455	R=423	R=494	R=178
U=57	U=465	U=239	U=224	U=260	U=107
W=201.15"					
RL=484/-48					

GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.375"/Ft.

ALPINE TrusSteel
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Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84461
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219035
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VB05)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 37.01 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 120" oc.

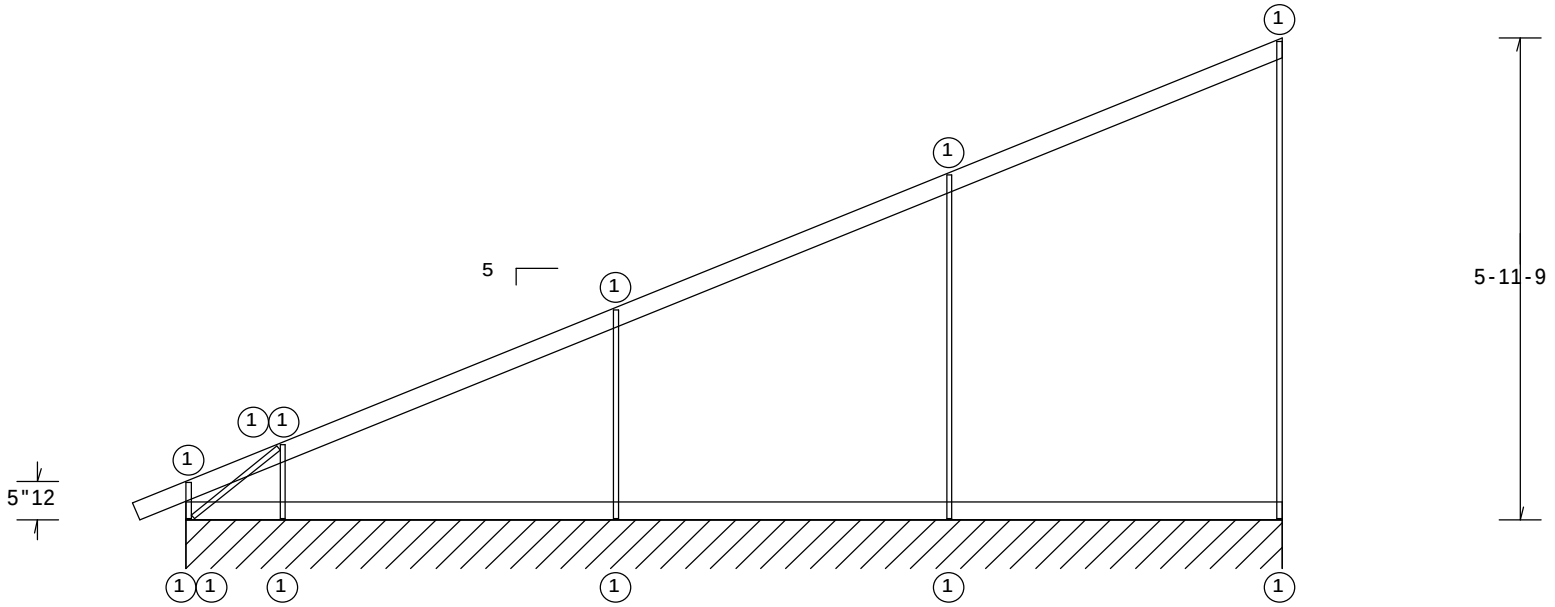
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.4375"/Ft.

ALPINE TrusSteel

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FL COA #0 278

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TC LL	20.0 PSF	REF R6704- 84462
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219036
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - VB06)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 37.76 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 115" oc.

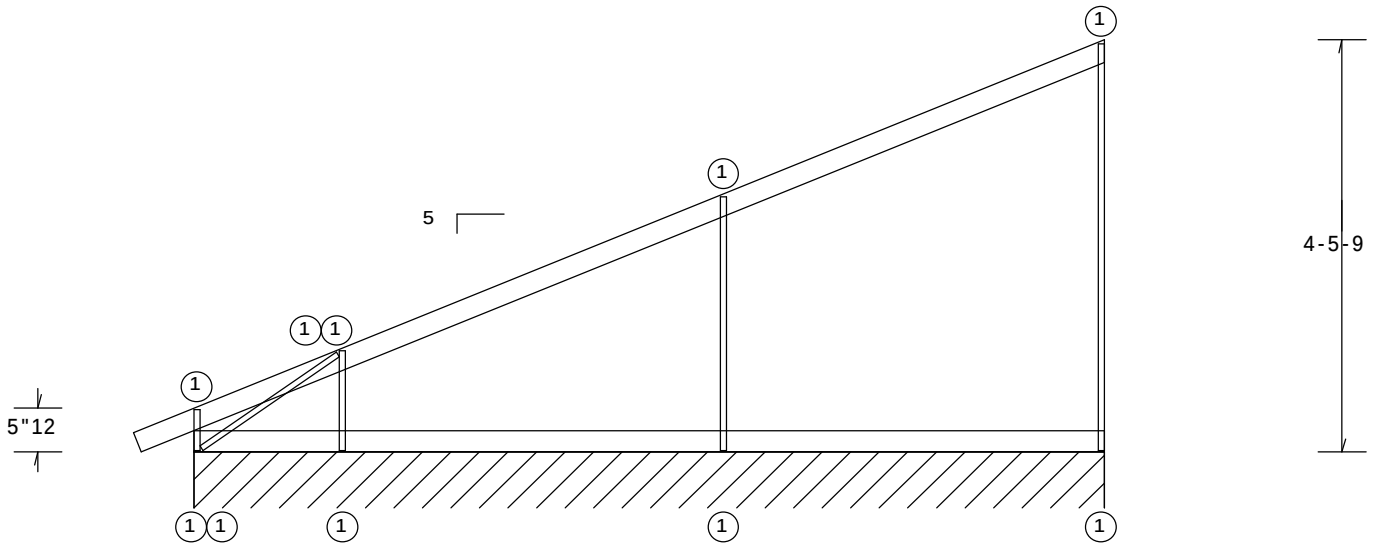
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84463
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219037
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

(S1401-Belmont Academy -(Escort Load) -- , ** - VB07)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI

140 mph wind, 38.51 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 72" oc.

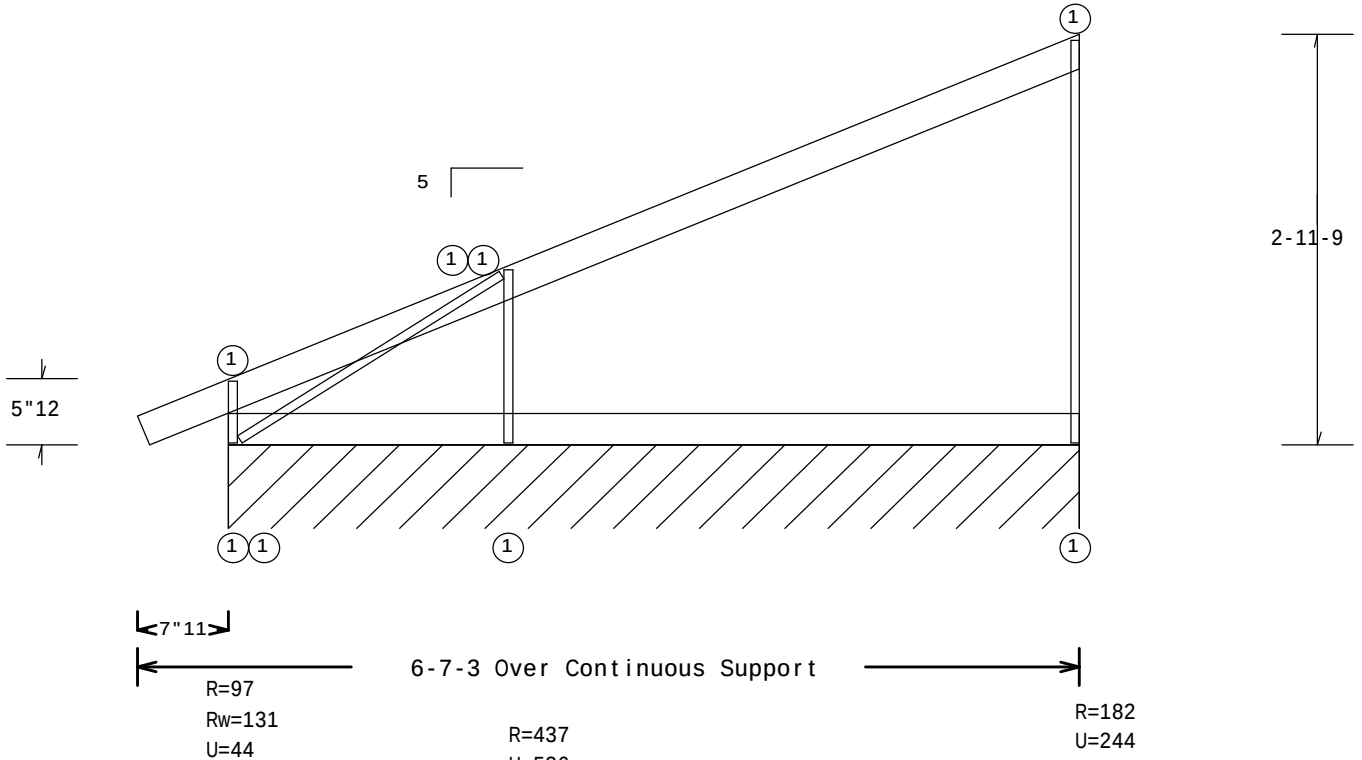
See DWG TS026, TS026A, or TS026B for the applicable valley detail.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

Right end vertical not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:2 FL/-/1/-/-/R/- Scale =.75"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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 TrusSteel Technical Bulletin TB98.07.17. Follow the latest edition of CFSBCSI (Cold-Formed Steel Building Component Safety Information, by CFSC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per CFSBCSI. Unless noted otherwise, the top chord shall have properly attached structural sheathing and the bottom chord shall have a properly attached rigid ceiling. Permanent bracing systems and associated members and connections, including web CLR's, shall be specified by the Building Designer in accordance with AISI S214 Sections B4.5 and B6.

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 S214 - North American Standard for Cold-Formed Steel Framing - Truss Design, by AISI, or for handling, shipping, installation and bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per S214.

For more information, refer to these websites.
TrusSteel: www.trusssteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84464
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219038
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - K1A)

Top chord 33TSC2.75 1.5x2.75-33-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W14,W15 33W.75x1.5 .75x1.5-33-45KSI:

Wind loads and reactions based on MWFRS.

End verticals not exposed to wind pressure.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-2.40	11.90	Structural Panels
BC	0.00	8.48	Purlins at 102"
BC	8.48	11.90	Purlins at 41"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.

SPECIAL LOADS

TC - From 4 PLF at -2.40 to 145 PLF at 0.00
TC - From 141 PLF at 0.00 to 358 PLF at 3.70
TC - From 10 PLF at 3.70 to 10 PLF at 11.90
BC - From 10 PLF at 0.00 to 10 PLF at 11.90
PL - 76 LB Conc. Load at (3.70,30.96)
PL - -425 LB Conc. Load at (3.86,30.96)
PL - -93 LB Conc. Load at (5.69,31.32)
PL - 310 LB Conc. Load at (7.82,31.72)
PL - 138 LB Conc. Load at (10.26,32.15)

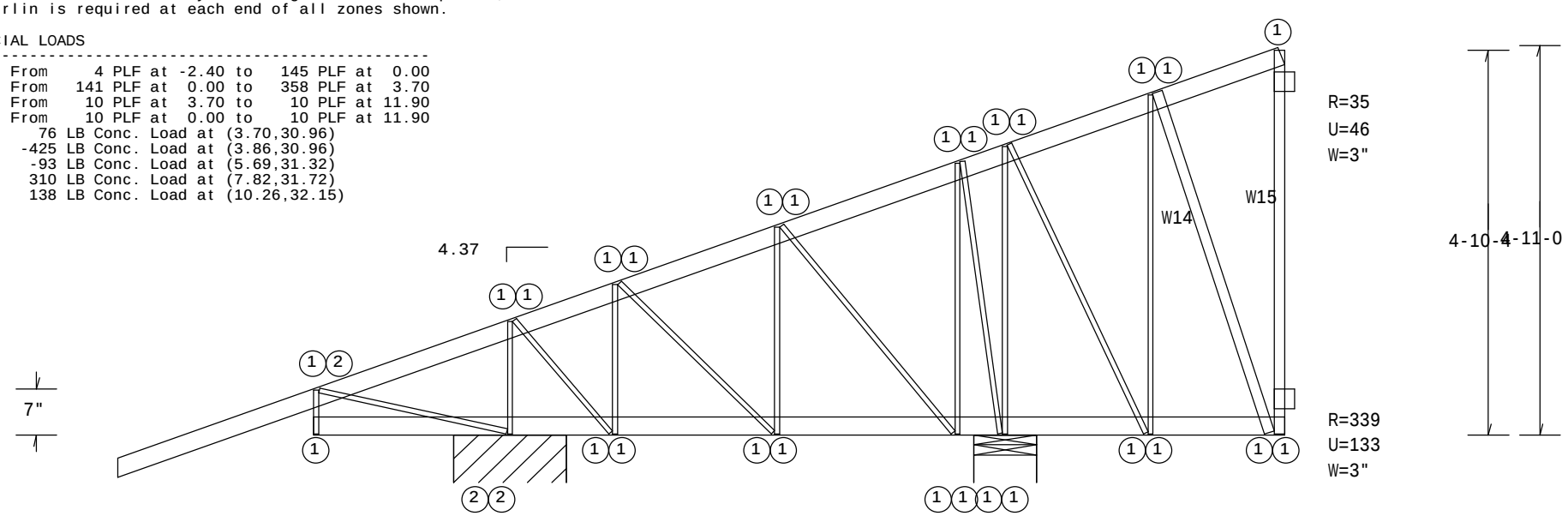
Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 32.30 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Left cantilever is not exposed to wind

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC 2017 2001.01.0601.20 QTY:1 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84465
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219048
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	REV
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - K1)

Top chord 33TSC2.75 1.5x2.75-33-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI
:W12,W13 33W.75x1.5 .75x1.5-33-45KSI:

Special loads

TC: From	0 plf at	-2.40 to	357 plf at	3.70
TC: From	10 plf at	3.70 to	10 plf at	11.90
BC: From	4 plf at	-2.40 to	4 plf at	0.00
BC: From	10 plf at	0.00 to	10 plf at	11.90

PL: 75.80 lb Conc. Load at (3.70,30.96)
PL: -425.03 lb Conc. Load at (3.86,30.96)
PL: -92.55 lb Conc. Load at (5.69,31.32)
PL: 309.66 lb Conc. Load at (7.82,31.72)
PL: 46.30 lb Conc. Load at (7.97,31.72)
PL: 138.09 lb Conc. Load at (10.26,32.15)

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

140 mph wind, 32.30 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS.

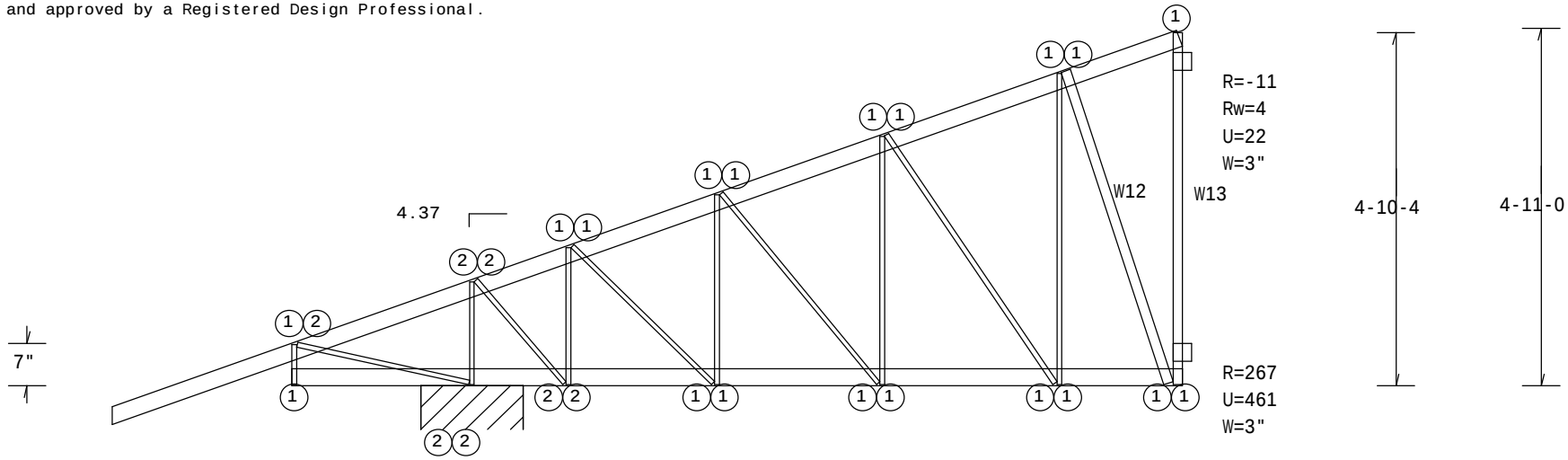
End verticals not exposed to wind pressure.

Left cantilever is not exposed to wind

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-2.40	11.90	Structural Panels
BC	0.00	2.41	Purlins at 29"
BC	2.41	11.90	Purlins at 114"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC 2017 2001.01.01.0601.20 QTY:3 FL/-/1/-/-/R/- Scale =.4375"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84466
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219046
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	REV
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - J1)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W4 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 32.38 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Left cantilever is not exposed to wind

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

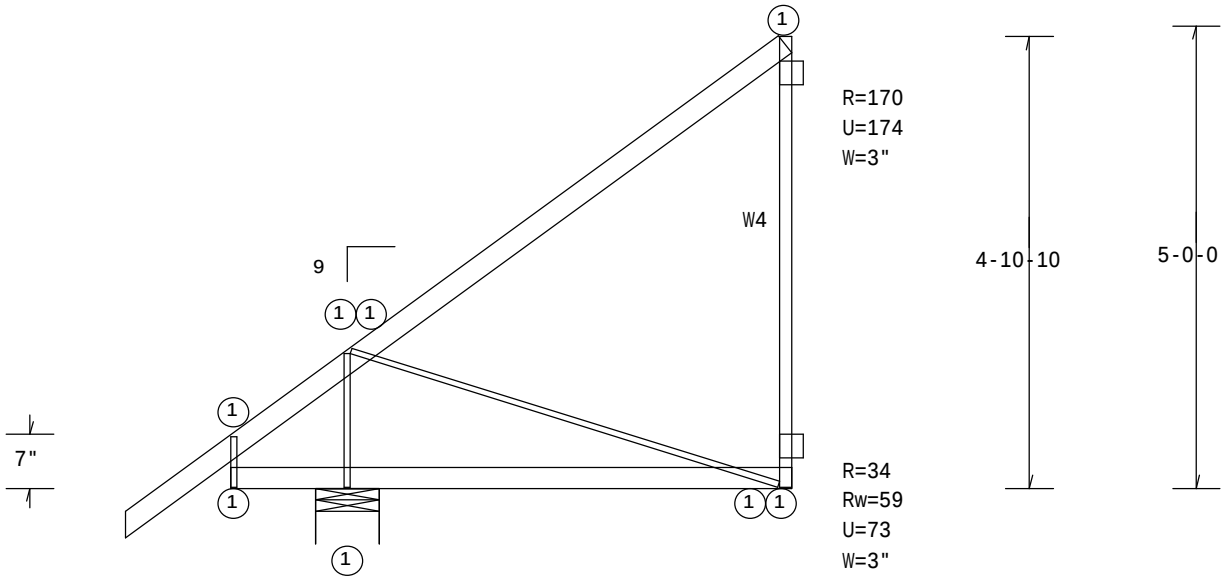
Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	5.89	Structural Panels
BC	0.00	1.22	Purlins at 15"
BC	1.22	5.89	Purlins at 56"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:13 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84467
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219039
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - C6)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W4 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 31.60 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf.
GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 69" oc.

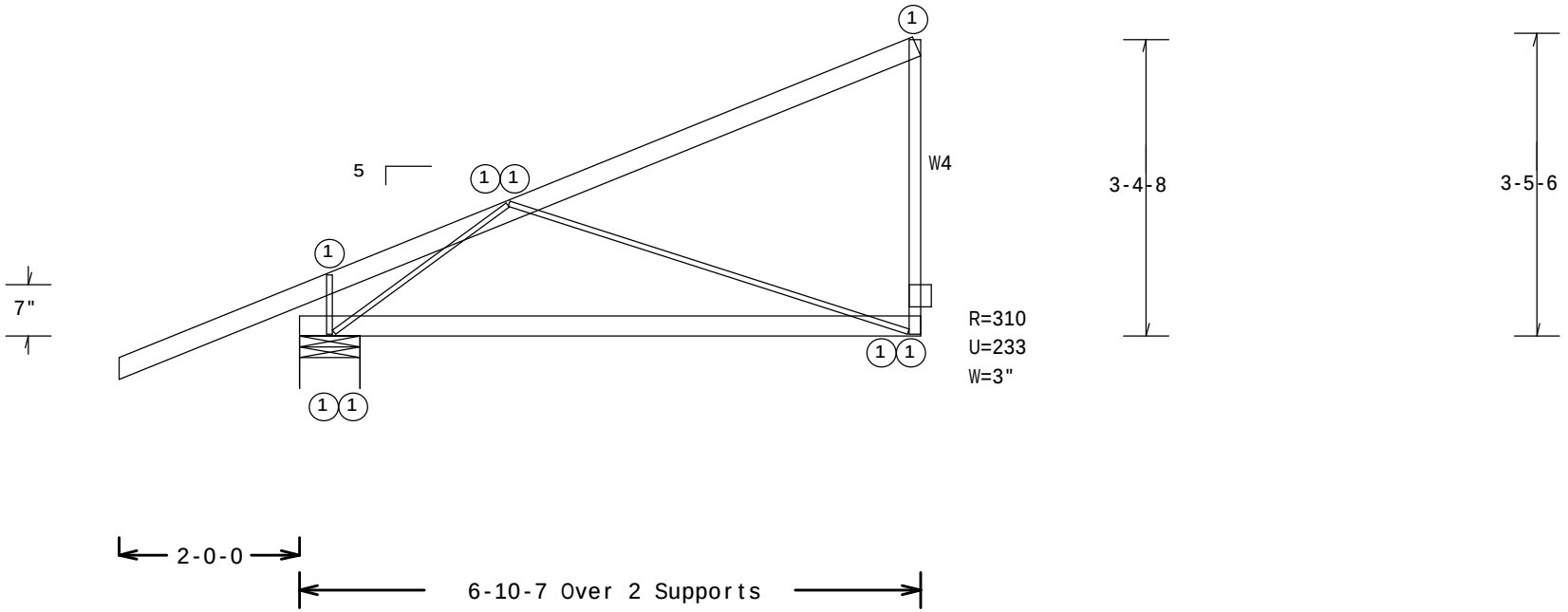
See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:4 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84468
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219040
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - C5)

Top chord 33TSC2.75 1.5x2.75-33-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W3 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 27.18 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

In lieu of rigid ceiling use purlins to brace BC @ 39" oc.

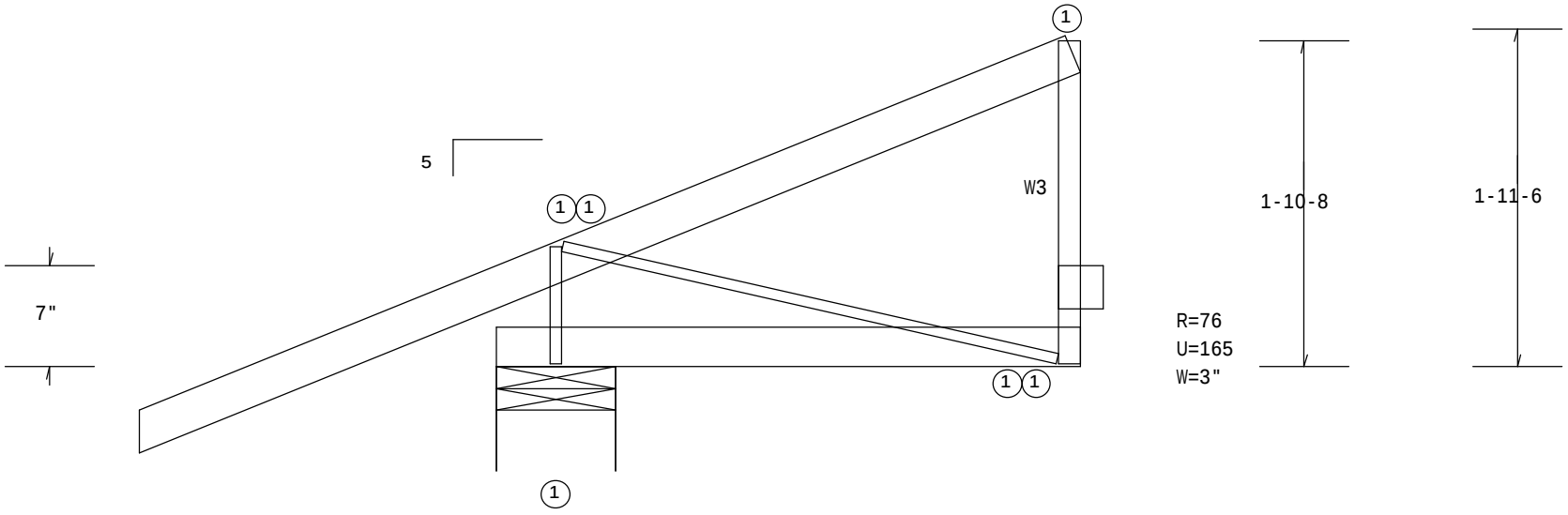
See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Deflection meets L/360 live and L/240 total load.



GALVANIZATION - G60 Design Crit: AISI S100-2012/IBC2017Cor1 17.02.02.0123.10 QTY:4 FL/-/1/-/-/R/- Scale =1"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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, refer to these websites.
TrusSteel: www.trussteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84469
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219041
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - C4)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W4 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 32.02 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Left cantilever is not exposed to wind

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

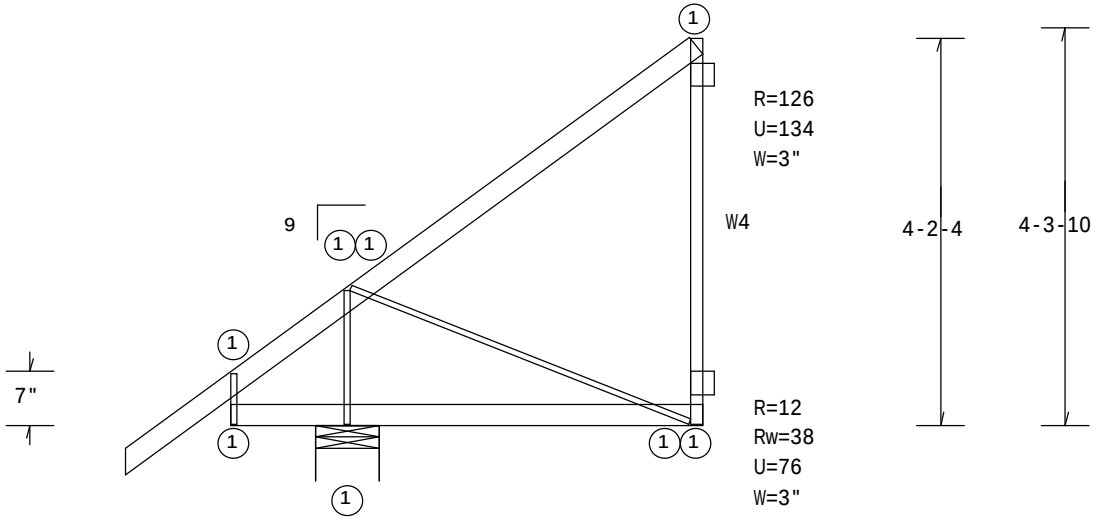
Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	4.96	Structural Panels
BC	0.00	1.22	Purlins at 15"
BC	1.22	4.96	Purlins at 45"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



GALVANIZATION - G60 Design Crit AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:4 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84470
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219042
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - C3)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W4 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 31.61 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Left cantilever is not exposed to wind

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

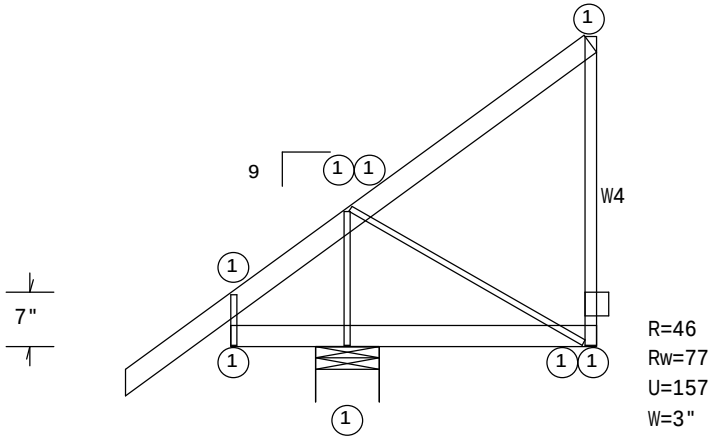
Wind loads and reactions based on both MWFRS and C&C.

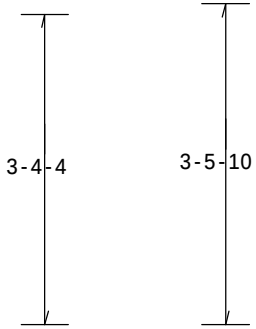
End verticals not exposed to wind pressure.

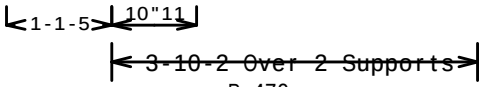
Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	3.85	Structural Panels
BC	0.00	1.22	Purlins at 15"
BC	1.22	3.85	Purlins at 31"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.







R=470
U=161
W=8"
RL=270/-90
Re: Critical AISI S100-2012/FBC2017Com

GALVANIZATION - G60 Design Crit: 17.02.02.0123.10 QTY:4 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE TrusSteel
13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing, refer to TrusSteel Technical Bulletin TB98.07.17. Follow the latest edition of CFSBCSI (Cold-Formed Steel Building Component Safety Information, by CFSC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per CFSBCSI. Unless noted otherwise, the top chord shall have properly attached structural sheathing and the bottom chord shall have a properly attached rigid ceiling. Permanent bracing systems and associated members and connections, including web CLR's, shall be specified by the Building Designer in accordance with AISI S214 Sections B4.5 and B6.

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 S214 - North American Standard for Cold-Formed Steel Framing - Truss Design, by AISI, or for handling, shipping, installation and bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per S214.

For more information, refer to these websites.
TrusSteel: www.trussteel.com; CFSC: www.cfsc.sbcindustry.com; CFSEI: www.cfsei.org; AISI: www.steel.org

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84471
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219043
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

(S1401-Belmont Academy -(Escort Load) -- , ** - C2)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W4 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 31.19 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Left cantilever is not exposed to wind

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

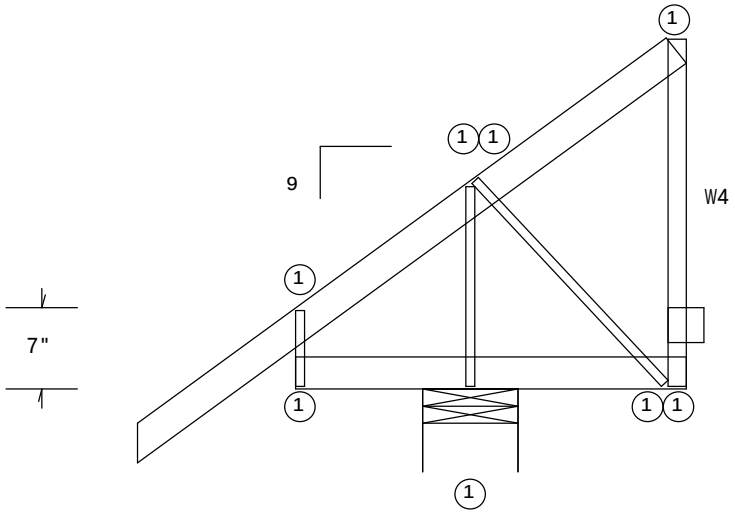
Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	2.73	Structural Panels
BC	0.00	1.22	Purlins at 15"
BC	1.22	2.73	Purlins at 18"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com Restrain 17.02.02.0123.10 QTY:4 FL/-/1/-/-/R/- Scale =.75"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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TC LL	20.0 PSF	REF R6704- 84472
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219044
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

(S1401-Belmont Academy -(Escort Load) -- , ** - C1)

Top chord 28TSC2.75 1.5x2.75-28-55KSI
Bot chord 28TSC2.75 1.5x2.75-28-55KSI
Webs 33W.75x.75 .75x.75-33-45KSI :W4 33W.75x1.5 .75x1.5-33-45KSI:

140 mph wind, 30.86 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

Left cantilever is not exposed to wind

Deflection meets L/360 live and L/240 total load.

See TS standard detail book for truss to truss connections. Non-standard connections to be designed and approved by a Registered Design Professional.

Fasteners=14AMD. Circles show the min. no. of blue 14AMDB1.25 fasteners and squares show the min. no. of red 14AMDR1.5 fasteners per member. See DWG. TS011 for details.

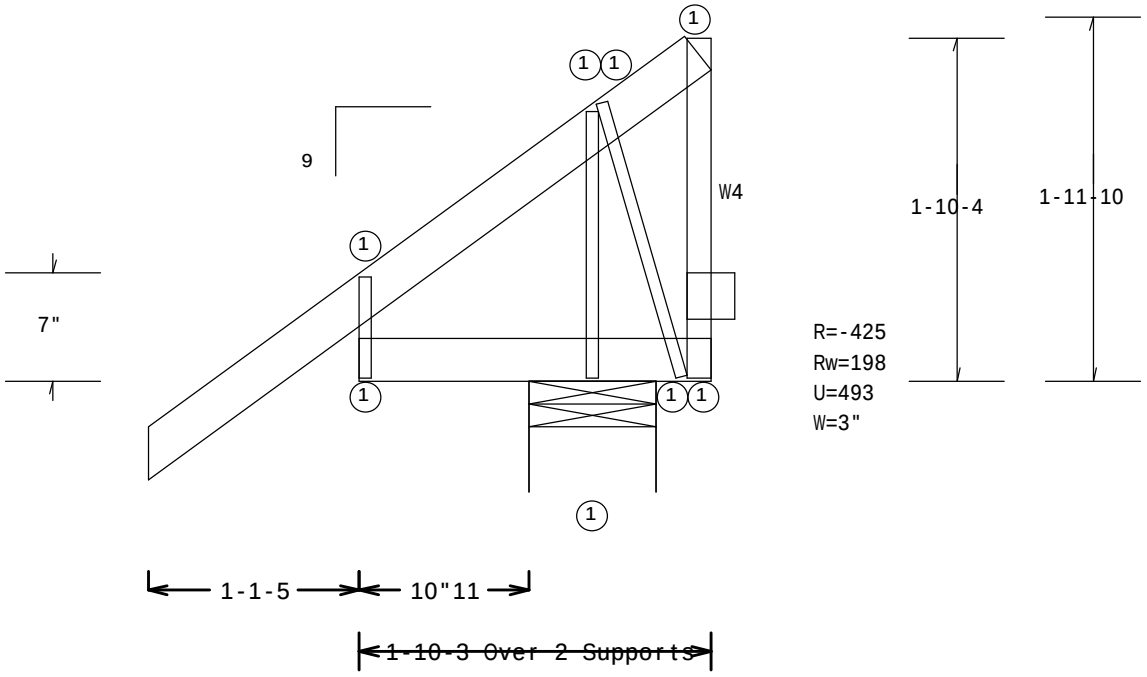
Wind loads and reactions based on both MWFRS and C&C.

End verticals not exposed to wind pressure.

Laterally Restrain Chords as follows:

Chord Type	Start(ft)	End(ft)	Restraint
Sloped TC	-1.11	1.85	Structural Panels
BC	0.00	1.22	Purlins at 15"
BC	1.22	1.85	Purlins at 7"

NOTE: Unless restrained by a bearing or structural panels, a purlin is required at each end of all zones shown.



GALVANIZATION - G60 Design Crit: AISI S100-2012/FBC2017Com 17.02.02.0123.10 QTY:4 FL/-/1/-/-/R/- Scale =1"/Ft.

ALPINE TrusSteel

13723 Riverport Dr, Suite 200
Maryland Heights, MO 63043
FL COA #0 278

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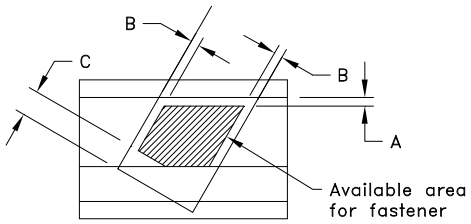
BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF R6704- 84473
TC DL	25.0 PSF	DATE 08/06/20
BC DL	10.0 PSF	DRW MOUSR6704 20219045
BC LL	0.0 PSF	MO-ENG cwc/BWC
TOT.LD.	55.0 PSF	
SPACING	24.0"	JREF- 1WXJ6704Z02

08/11/2020

Fastener Placement Detail

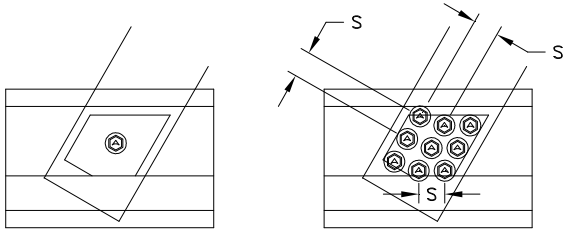
A – Lip clearance = 5/16" (8mm) for TSC3.00 & TSC4.00
Lip clearance = 9/32" (7mm) for TSC2.75
B – Edge distance (1.0 x Fastener Dia.)
C – End distance (3.0 x Fastener Dia.)
S – Minimum fastener spacing (3.0 x Fastener Dia.)



Fastener Dia. in. (mm)	Min. fastener spacing & end distance in. (mm)	Fastener edge. distance in. (mm)
#14 d=1/4 (6)	#14 S=C= 3/4 (19)	#14 B=1/4 (6)

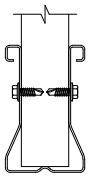
Detail D – Recommended fastener placement for minimum fastener count: Begin placing the fastener in the center of the available area. Fastener quantity shall be specified by the approved truss drawings.

Detail E – Recommended fastener placement for multiple fastener count: Begin placing the fasteners in the center of the available area and expand toward the outer edges. Fastener quantity shall be specified by the approved truss drawings.

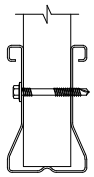


Detail D Detail E

Typical Fastener Placement Sections



AMS
Single Shear Fastener



AMD
Double Shear™ Fastener

Allowable shear loads per fastener lbs. (kN) for 14AMD Double Shear™ Fasteners

TrusSteel Web Thickness	TrusSteel Chord Thickness					
	22g–28TSC	20g–33TSC	18g–43TSC	16g–54TSC	14g–68TSC	12g–97TSC
20g–33C	582 (2.59)	688 (3.06)	783 (3.48)	886 (3.94)	886 (3.94)	886 (3.94)
20g–33W	654 (2.91)	722 (3.21)	822 (3.66)	930 (4.14)	930 (4.14)	930 (4.14)
18g–47W	728 (3.24)	914 (4.07)	1181 (5.25)	1264 (5.62)	1264 (5.62)	1264 (5.62)
16g–56W	728 (3.24)	914 (4.07)	1181 (5.25)	1264 (5.62)	1264 (5.62)	1264 (5.62)
16g–63W	728 (3.24)	914 (4.07)	1181 (5.25)	1264 (5.62)	1264 (5.62)	1264 (5.62)

Allowable shear loads per fastener lbs. (kN) for 14AMS.75 Single Shear Fasteners

TrusSteel Web Thickness	TrusSteel Chord Thickness					
	22g–28TSC	20g–33TSC	18g–43TSC	16g–54TSC	14g–68TSC	12g–97TSC
20g–33C	248 (1.10)	248 (1.10)	248 (1.10)	248 (1.10)	248 (1.10)	248 (1.10)
20g–33W	252 (1.12)	252 (1.12)	252 (1.12)	252 (1.12)	252 (1.12)	252 (1.12)
18g–47W	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)
16g–56W	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)
16g–63W	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)	418 (1.86)

General Notes:

1. 14AMD Double Shear™ Fasteners mentioned above consist of 14AMDB1.25, 14AMDR1.5, 14AMDB2.125, 14AMDR2.375 and 14AMD2.625.
2. 14AMD fastener values for tube (W) webs were determined by test following guidelines set forth in Chapter K of the American Iron and Steel Institute (AISI), AISI 2016 "North American Specifications for the Design of Cold–Formed Steel Structural Members" (S100–16). 14AMS fastener values and 14AMD fastener values for 33C1.5x1.5 were determined by calculations set forth in Chapter J4 of the American Iron and Steel Institute (AISI), AISI 2016 "North American Specifications for the Design of Cold–Formed Steel Structural Members" (S100–16).
3. The AMD and AMS fasteners are self–drilling Hex washer head screws made from 1022 carbon steel wire that is case hardened and are designed to drill through and install into TrusSteel chords and webs. The threads are a buttress type with thirteen threads per inch. They are manufactured to perform in accordance with the Society of Automotive Engineers (SAE) J78 standard for steel self–drilling tapping screws and have a zinc plated and chromate finished corrosion protection applied in accordance with ASTM F1941.

ALPINE TrusSteel™

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Florida: 6750 Forum Drive, Suite 305 / Orlando, FL 32821 / (800) 755-6001
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Tube And C-Web Fastener Placement And Allowable Shear Loads

08/11/2020

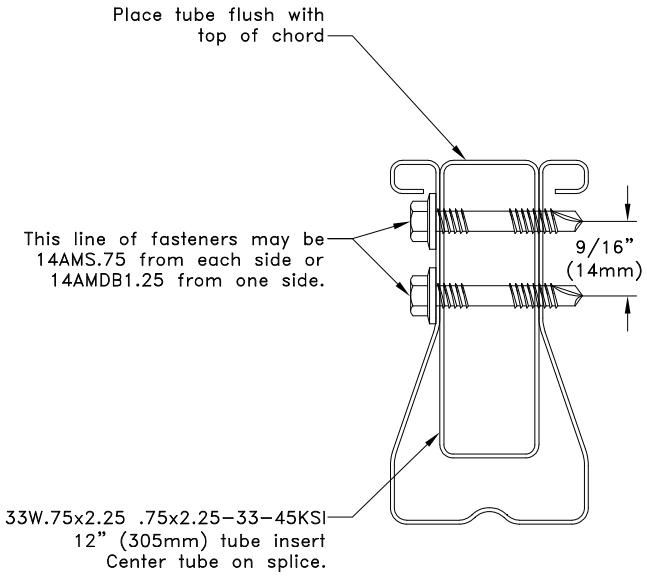
BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

Standard Detail:
TS011

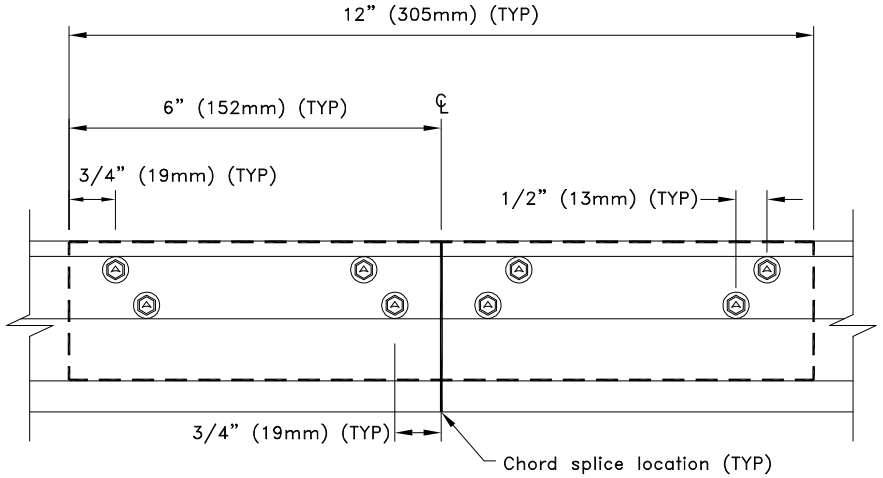
Date:
10/11/18

TrusSteel Detail Category:
Fastener Placement

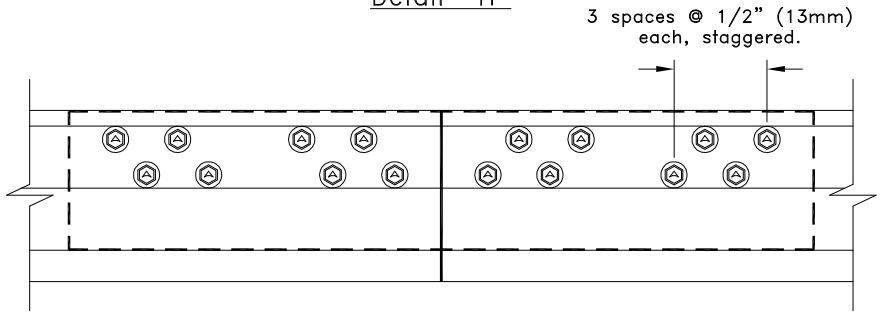
08/11/2020



TSC2.75



Detail "H"



Detail "I"

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TSC2.75 Splices Using The "Tube Only" Splice

08/11/2020

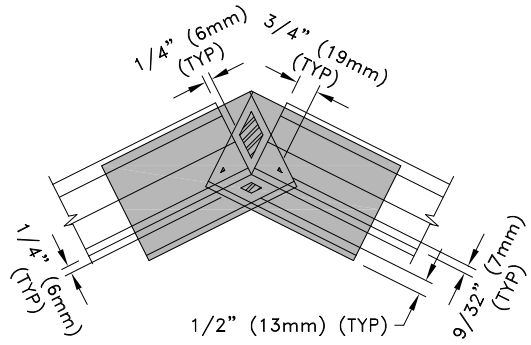
BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

08/11/2020

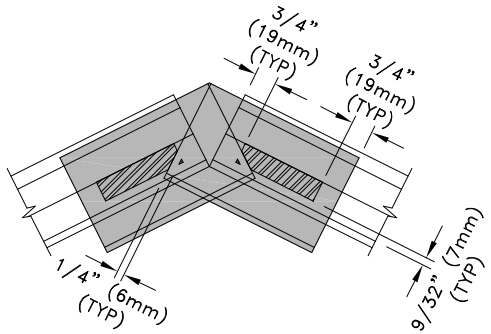
Standard Detail:
TS002A

Date:
10/11/18

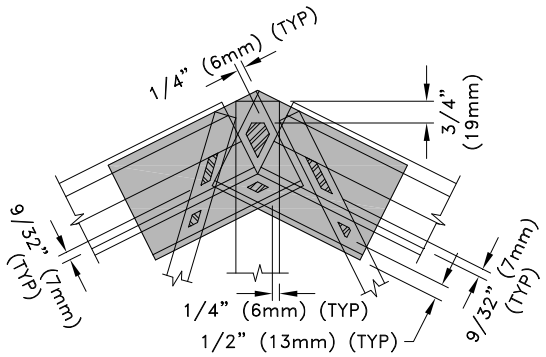
TrusSteel Detail Category:
Chord Splices



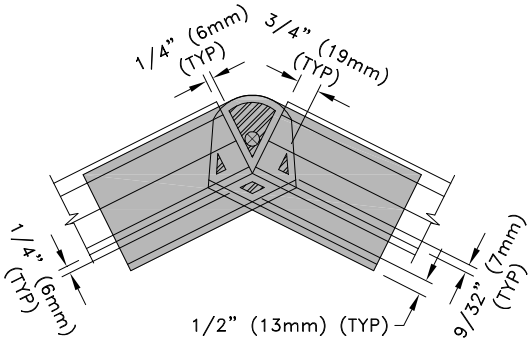
Fasteners Through The Lapped Area
33TSBUC3.5 or 43TSBUC3.5
Bent–U Pitch Break Connector



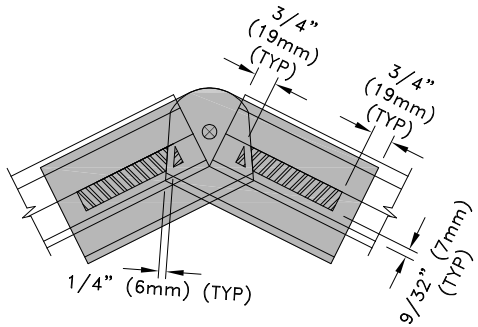
Fasteners Through The Chord Area
33TSBUC3.5 or 43TSBUC3.5
Bent–U Pitch Break Connector



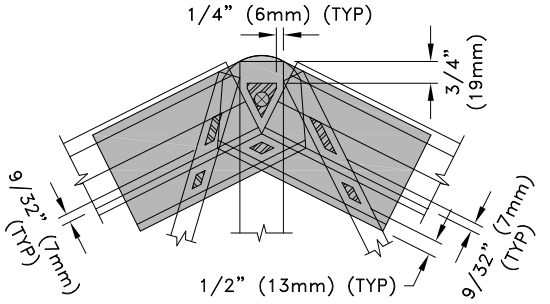
Fasteners Through The Web Area
33TSBUC3.5 or 43TSBUC3.5
Bent–U Pitch Break Connector



Fasteners Through The Lapped Area
33TSHC3.5K or 43TSHC3.5K
Hinged Pitch Break Connector



Fasteners Through The Chord Area
33TSHC3.5K or 43TSHC3.5K
Hinged Pitch Break Connector



Fasteners Through The Web Area
33TSHC3.5K or 43TSHC3.5K
Hinged Pitch Break Connector

General Notes:

1. Fastener spacing and end distance is 3/4" (19mm) minimum, except as shown.
2. Refer to approved truss drawings for required fastener type and quantities for each fastener contact area.
3. Fastener contact areas that coincide with other contact areas may use a common fastener for both areas. This will result in a reduction in the total number of fasteners required at the pitch break joint.
4. = Fastener contact area.

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TSC2.75 Pitch Break Connector Fastener Contact Areas

08/11/2020

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

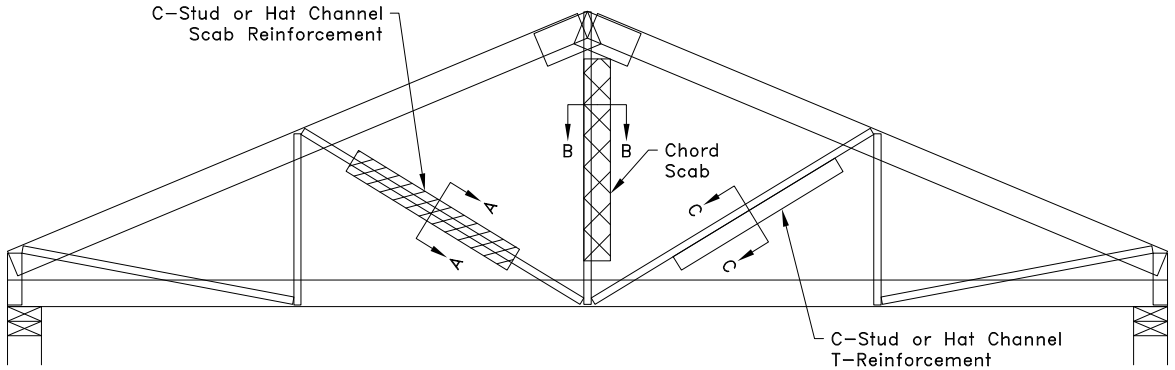
08/11/2020

Standard Detail: TS004

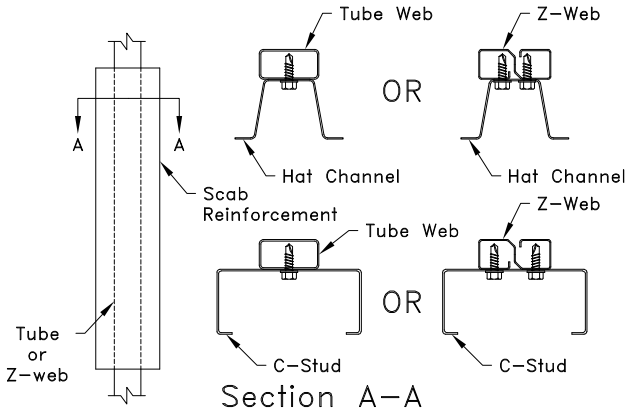
Date: 10/11/18

TrusSteel Detail Category: Pitch Break Connections

Different Types of Web Reinforcements Shown on TrusSteel Drawings



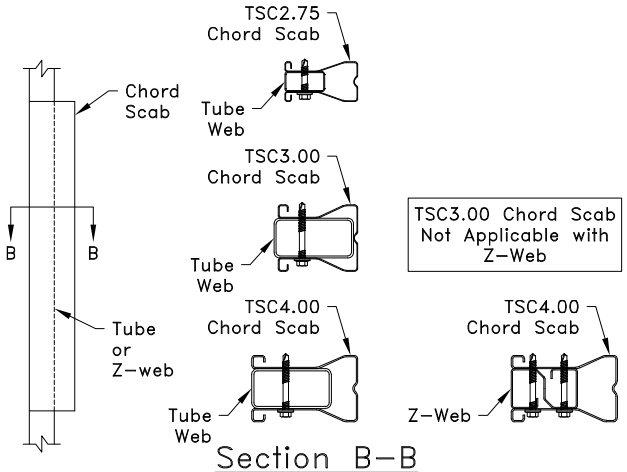
C–Stud or Hat Channel Scab Reinforcement



Section A–A

Minimum C–Stud = 362S162–33
Minimum Hat Channel = 150F125–33

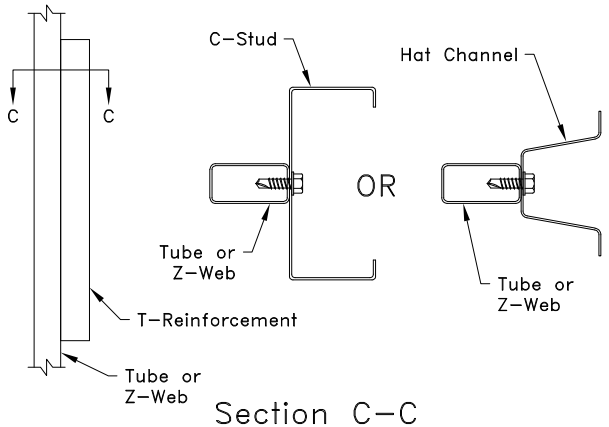
Chord Scab



Section B–B

Minimum chord scab = 28TSC2.75 for .75" (19mm) wide webs
Minimum chord scab = 28TSC3.00 or 28TSC4.00 for 1.5" (38mm) wide webs

C–Stud or Hat Channel T–Reinforcement



Section C–C

Minimum C–Stud = 362S162–33
Minimum Hat Channel = 150F125–33

NOTICE **The details on this page are generic installation guides only. See approved truss drawings for specific reinforcement material, size and connection requirements per ply. Web reinforcements called out on the approved truss drawings shall NOT be substituted for a different reinforcement type unless approved by a TrusSteel engineer.**

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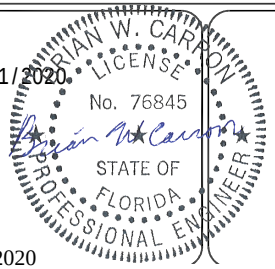
General Web Reinforcement Guidelines

08/11/2020



08/11/2020

Standard Detail:
TS019

Date:
10/11/18

TrusSteel Detail Category:
Reinforcement

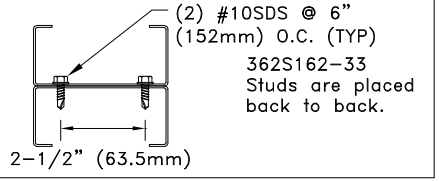
Wind Criteria:
ASCE 7-05, ASCE 7-10 or ASCE 7-16
Enclosed building
30' (9144mm) mean height
CAT III & IV, EXP C
No speed-up increase factor taken for topographic effects; K_{zt} = 1.0

Max Loading:
Top chord live load = 40 psf (1.92 kN/m^2)
Top chord dead load = 10 psf (0.48 kN/m^2)
Wind dead load = 5 psf (0.24 kN/m^2)
Soffit load on overhang off of gable face = 10 psf (0.48 kN/m^2)
Max weight on face of gable = 10 psf (0.48 kN/m^2)

362S162-33 Stud Maximum Lengths				
Windspeed:	ASCE 7-05 - 110 MPH (49 m/s) ASCE 7-10 - 140 MPH (62 m/s) ASCE 7-16 - 140 MPH (62 m/s)		ASCE 7-05 - 150 MPH (67 m/s) ASCE 7-10 - 190 MPH (85 m/s) ASCE 7-16 - 190 MPH (85 m/s)	
Gable Stud Spacing:	16" (407mm) O.C.	24" (610mm) O.C.	16" (407mm) O.C.	24" (610mm) O.C.
Unbraced Single Stud	6'6" (1981mm)	5'6" (1676mm)	4'9" (1448mm)	3'0" (914mm)
Diagonally Braced Single Stud	13'3" (4039mm)	11'6" (3505mm)	10'6" (3200mm)	8'0" (2438mm)
Unbraced Double Stud	8'6" (2591mm)	7'6" (2286mm)	7'0" (2134mm)	6'0" (1829mm)

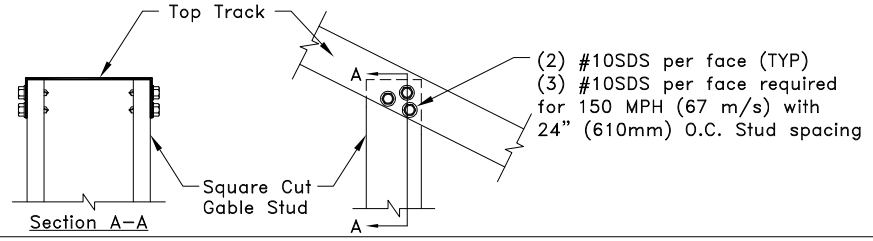
Deflection Criteria Note: Unbraced Single Stud values meet L/450 max,
Diagonally Braced Single Stud values meet L/2100 max
Unbraced Double Stud values meet L/390 max.

Double Stud Cross Section

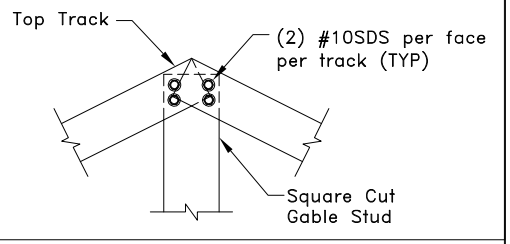


Stud to Track Connections

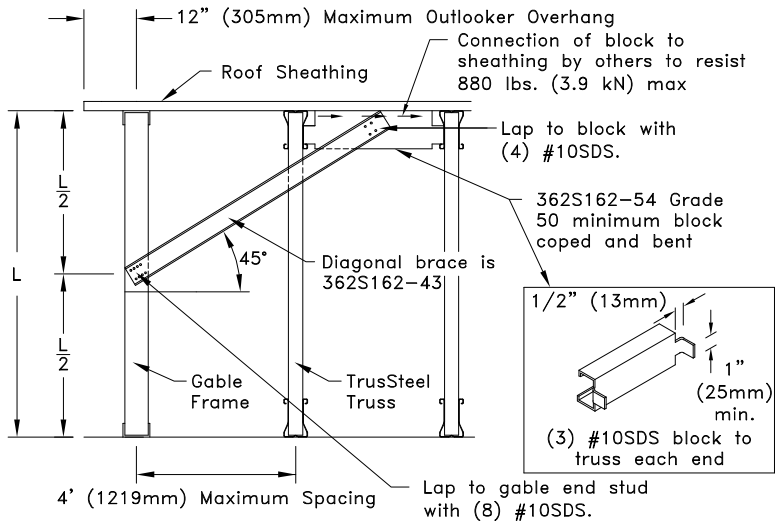
Detail A



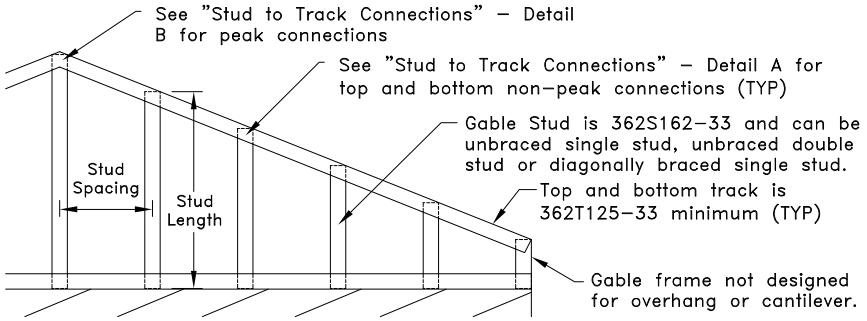
Detail B



Diagonally Braced Single Stud



C-Stud Gable Frame



General Notes:
1. SDS = Self-Drilling Tapping Screw
2. Screw spacing is 9/16" (14.3mm) minimum.
3. Screw edge distance is 1/4" (6.4mm) and end distance is 3/8" (9.5mm) minimum.
4. The gable end frame is assumed to be supported vertically, horizontally and laterally along its entire length. The building designer is responsible for the design of the support wall, the ceiling and roof diaphragm, connection of the gable frame to these supports, and transfer of in-plane shear loads.
5. Intended for use with TrusSteel roof truss systems only.
6. Gable stud web is perpendicular to the length of the track.
7. Cold-Formed Steel Calculations are per the AISI 2016 "North American Specification for the Design of Cold-Formed Steel Structural Members" (S100-16) and AISI 2015 "North American Standard for Cold-Formed Steel Structural Framing" (S240-15).

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Florida: 6750 Forum Drive, Suite 305 / Orlando, FL 32821 / (800) 755-6001
Missouri: 13723 Riverport Drive, Suite 200 / Maryland Heights, MO 63043 / (800) 326-4102

3-5/8" C-Stud Gable Framing

08/11/2020

BRIAN W. CARLSON
LICENSE
No. 76845
STATE OF FLORIDA
PROFESSIONAL ENGINEER

08/11/2020

Standard Detail:
TS013

Date:
10/11/18

TrusSteel Detail Category:
Gable Framing

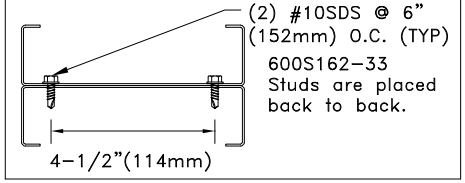
Wind Criteria:
ASCE 7-05, ASCE 7-10 or ASCE 7-16
Enclosed building
30' (9144mm) mean height
CAT III & IV, EXP C
No speed-up increase factor taken for topographic effects; K_{zt} = 1.0

Max Loading:
Top chord live load = 40 psf (1.92 kN/m²)
Top chord dead load = 10 psf (0.48 kN/m²)
Wind dead load = 5 psf (0.24 kN/m²)
Soffit load on overhang off of gable face = 10 psf (0.48 kN/m²)
Max weight on face of gable = 10 psf (0.48 kN/m²)

600S162-33 Stud Maximum Lengths				
Windspeed:	ASCE 7-05 - 110 MPH (49 m/s) ASCE 7-10 - 140 MPH (62 m/s) ASCE 7-16 - 140 MPH (62 m/s)		ASCE 7-05 - 150 MPH (67 m/s) ASCE 7-10 - 190 MPH (85 m/s) ASCE 7-16 - 190 MPH (85 m/s)	
Gable Stud Spacing:	16" (407mm) O.C.	24" (610mm) O.C.	16" (407mm) O.C.	24" (610mm) O.C.
Unbraced Single Stud	7'9" (2362mm)	5'6" (1676mm)	4'3" (1295mm)	2'9" (838mm)
Diagonally Braced Single Stud	15'9" (4801mm)	14'0" (4267mm)	12'0" (3658mm)	8'0" (2438mm)
Unbraced Double Stud	9'9" (2972mm)	8'9" (2667mm)	8'3" (2515mm)	6'0" (1829mm)

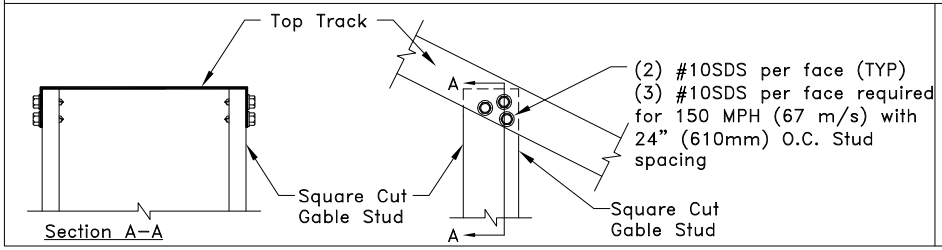
Deflection Criteria Note: Unbraced Single Stud values meet L/870 max,
Diagonally Braced Single Stud values meet L/4200 max
Unbraced Double Stud values meet L/780 max.

Double Stud Cross Section

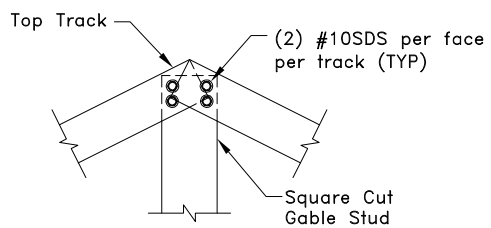


Stud to Track Connections

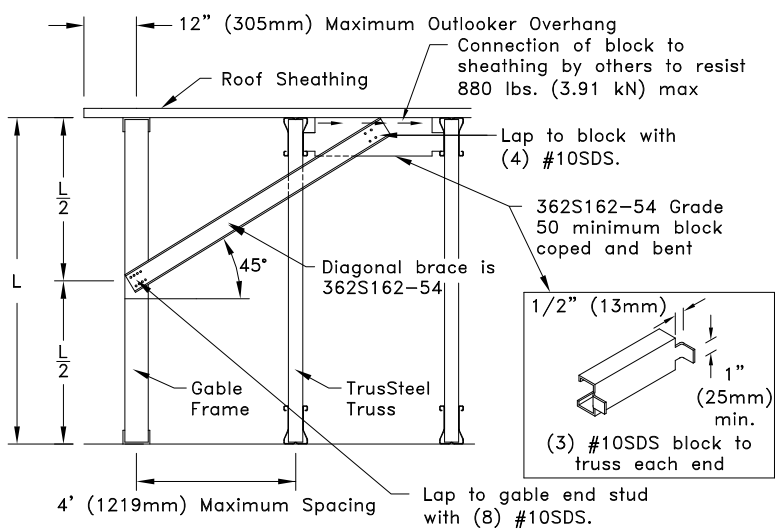
Detail A



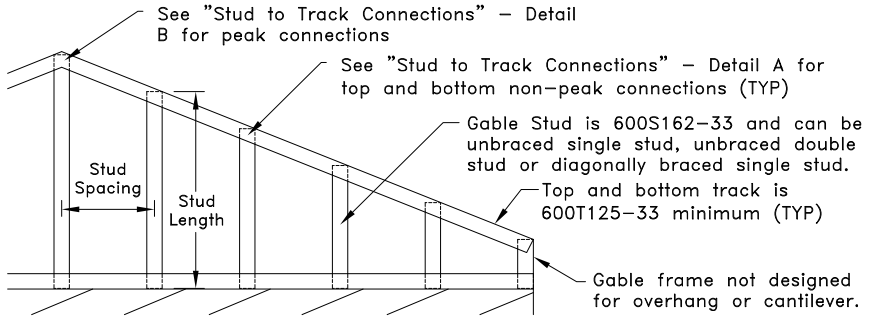
Detail B



Diagonally Braced Single Stud



C-Stud Gable Frame



General Notes:
1. SDS = Self-Drilling Tapping Screw
2. Screw spacing is 9/16" (14.3mm) minimum.
3. Screw edge distance is 1/4" (6.4mm) and end distance is 3/8" (9.5mm) minimum.
4. The gable end frame is assumed to be supported vertically, horizontally and laterally along its entire length. The building designer is responsible for the design of the support wall, the ceiling and roof diaphragm, connection of the gable frame to these supports, and transfer of in-plane shear loads.
5. Intended for use with TrusSteel roof truss systems only.
6. Gable stud web is perpendicular to the length of the track.
7. Cold-Formed Steel Calculations are per the AISI 2016 "North American Specification for the Design of Cold-Formed Steel Structural Members" (S100-16) and AISI 2015 "North American Standard for Cold-Formed Steel Structural Framing" (S240-15).

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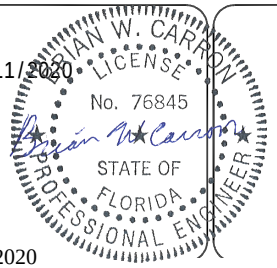
6" C-Stud Gable Framing

08/11/2020



08/11/2020

Standard Detail:
TS014

Date:
10/11/18

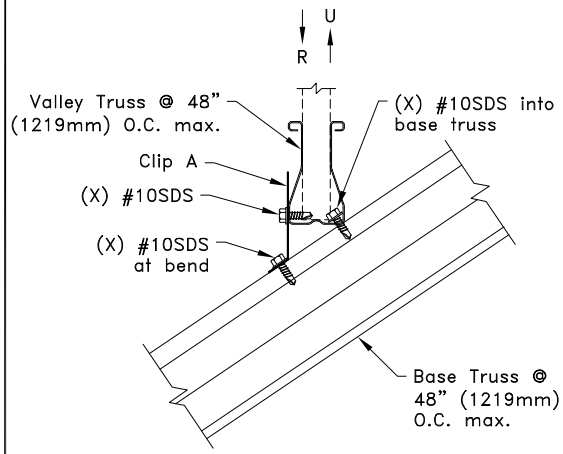
TrusSteel Detail Category:
Gable Framing

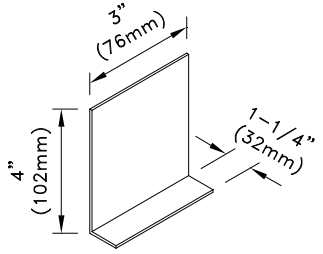
Connection Detail A

Pitch Range: 12/12 maximum

Allowable Loads – lbs (kN)			
X	Allowable Loads	Base Truss	
		TSC2.75[A]	TSC3.00 or TSC4.00
2	R	670 (2.98)	670 (2.98)
	U	410 (1.82)	410 (1.82)
3	R	NA	670 (2.98)
	U	NA	620 (2.76)

A. TSC2.75 valley truss only.



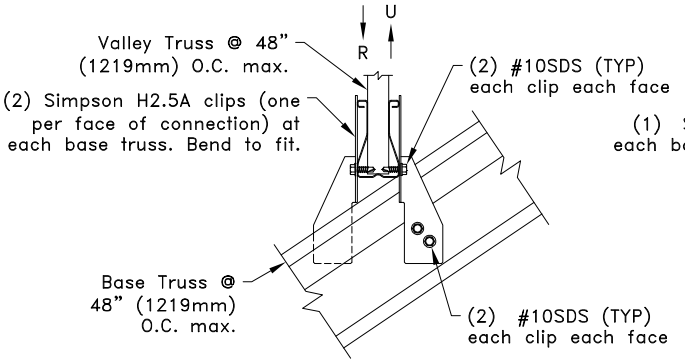


Clip A
18g ASTM A653 SS Grade 33 G60
Bare Metal Thickness = 0.0428" (1.087mm)
Bend clip to roof pitch.

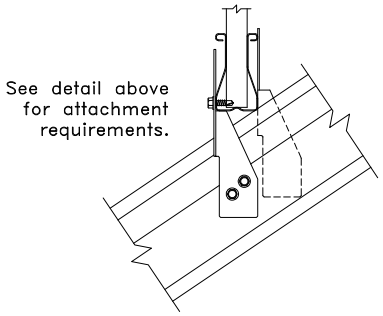
OR

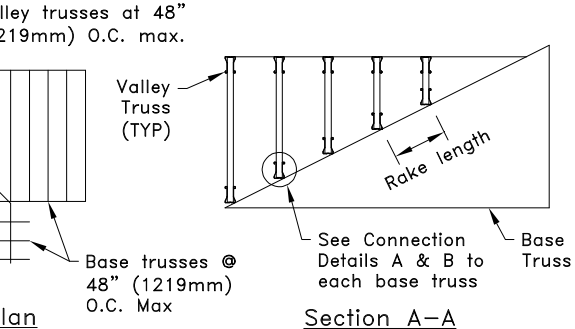
Connection Detail B

Pitch Range: 12/12 maximum
R = 670 lbs (2.98 kN)
U = 820 lbs (3.65 kN)



Connection Detail B Alternate Clip Attachment





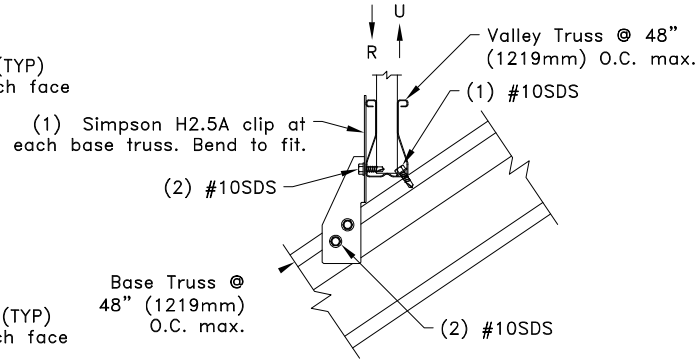
Partial Framing Plan

Section A–A

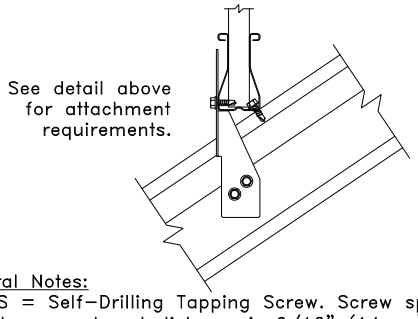
OR

Connection Detail C

Pitch Range: 9/12 maximum
R = 670 lbs (2.98 kN)
U = 320 lbs (1.42 kN)



Connection Detail C Alternate Clip Attachment



General Notes:

1. SDS = Self–Drilling Tapping Screw. Screw spacing, edge distance and end distance is 9/16" (14mm) minimum.
2. X refers to required number of screws at location.
3. Refer to approved bracing design for required bracing material and connections.
4. Properly attached valley trusses may be used in lieu of purlins if the top chord of the supporting truss has been designed with purlins at O.C. spacing equal to the rake length between valley trusses as shown in the Section A–A.
5. Refer to approved truss drawings for valley truss designs. Valley truss bottom chord panels not to exceed 4'0" (1219mm). Web in valley truss should be located at connection.
6. R refers to vertical reaction and U refers to uplift.
7. It is permissible to substitute an equal alternative for the Simpson Strong–Tie hardware specified on this detail.
8. Cold–Formed Steel Calculations are per the AISI 2016 "North American Specifications for the Design of Cold–Formed Steel Structural Members" (S100–16).

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TrusSteel Valley Truss Connection to Base Truss

08/11/2020

BRIAN W. CARRON LICENSE No. 76845 STATE OF FLORIDA PROFESSIONAL ENGINEER

08/11/2020

Standard Detail: TS026

Date: 10/11/18

TrusSteel Detail Category: Valley Set