

**WIND DESIGN**

ASCE 7 -16	II
Risk Category	0.85
Directionality (Kd)	14.5
Mean Roof ht (h)	0
Parapet ht above grd	C
Exposure Category	Enclosed Building
Enclosure Classif.	0.18
Internal pressure	3.0 ft
a =	0.00 ft
Minimum parapet height at building perimeter =	26.6 deg
Roof Angle	

Type of roof Hip

**COMPONENTS & CLADDING**

**ULTIMATE LOADS:**

Basic Wind speed	139.0 mph (LRFD)				
Base pressure (qh) =	35.7 psf (LRFD)				
Roof Surface Pressure (psf) - LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-38.5 psf	-37.5 psf	-36.0 psf	-35.0 psf	-35.0 psf
Negative Zone 2	-65.1 psf	-61.7 psf	-54.6 psf	-49.3 psf	-49.3 psf
Negative Zone 3	-99.2 psf	-92.9 psf	-84.2 psf	-77.8 psf	-77.8 psf
Positive All Zones	24.3 psf	22.1 psf	19.3 psf	17.1 psf	17.1 psf
Overhang Zone 2	-78.5 psf	-78.5 psf	-78.5 psf	-78.5 psf	-78.5 psf
Overhang Zone 3	-132.1 psf	-119.2 psf	-102.1 psf	-89.2 psf	-89.2 psf

Walls Surface Pressure (psf) - LRFD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-45.7 psf	-43.8 psf	-41.3 psf	-39.4 psf	-35.0 psf
Negative Zone 5	-56.4 psf	-52.6 psf	-47.6 psf	-43.8 psf	-35.0 psf
Positive Zone 4 & 5	42.1 psf	40.2 psf	37.7 psf	35.8 psf	31.4 psf

Parapets Surface Pressure (psf) - LRFD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	0.0 psf	0.0 psf	0.0 psf	0.0 psf
Positive Corner (Zone 5)	0.0 psf	0.0 psf	0.0 psf	0.0 psf
Negative Interior (Zone 4)	0.0 psf	0.0 psf	0.0 psf	0.0 psf
Negative Corner (Zone 5)	0.0 psf	0.0 psf	0.0 psf	0.0 psf

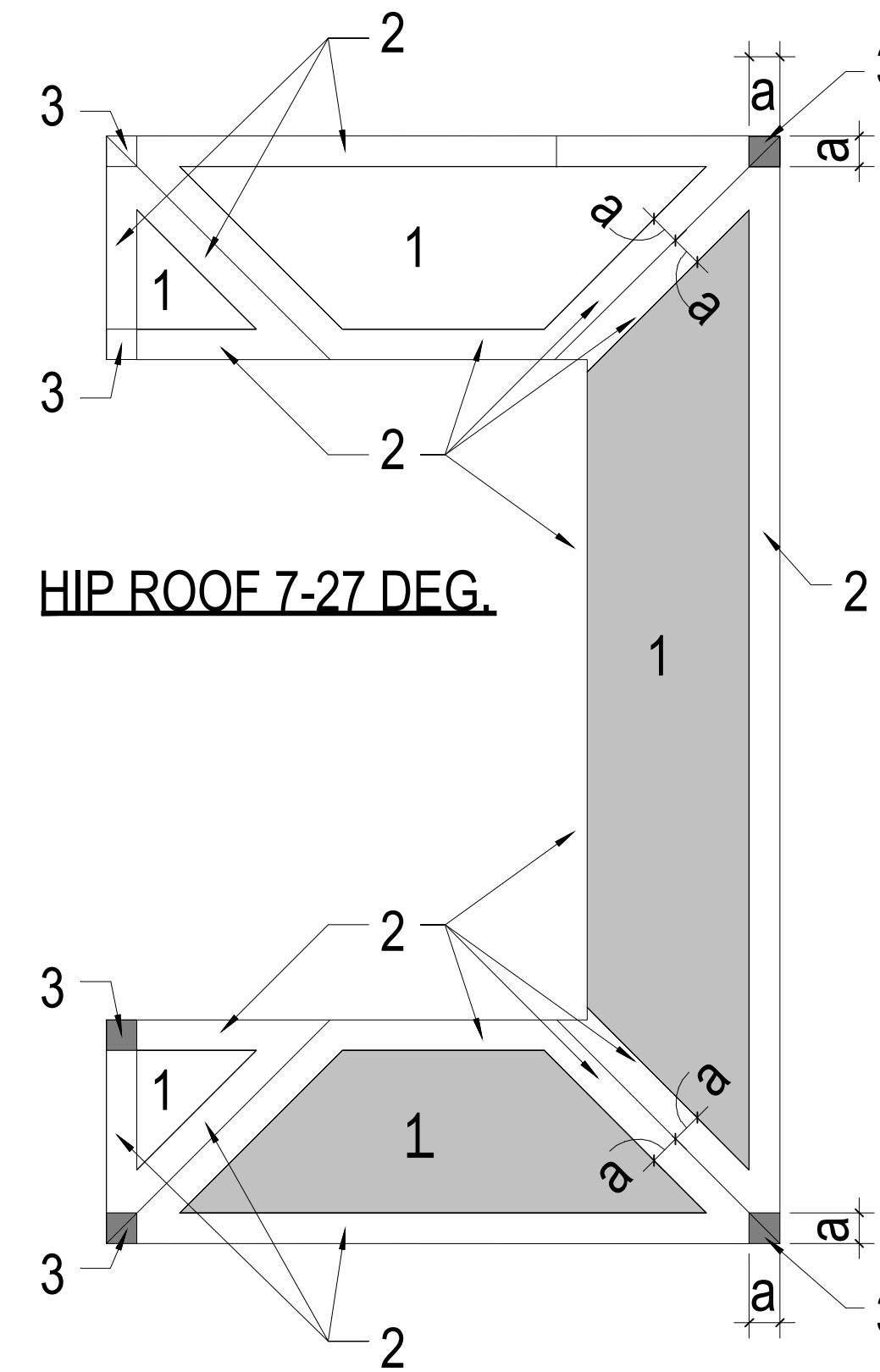
**SERVICE LOADS:**

Basic Wind speed	107.7 mph (ASD)				
Base pressure (qh) =	21.4 psf (ASD)				
Roof (ASD) Surface Pressure (psf) - ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	200 sf
Negative Zone 1	-23.1 psf	-22.5 psf	-21.6 psf	-21.0 psf	-21.0 psf
Negative Zone 2	-40.3 psf	-37.0 psf	-32.8 psf	-29.6 psf	-29.6 psf
Negative Zone 3	-59.5 psf	-55.7 psf	-50.5 psf	-46.7 psf	-46.7 psf
Positive All Zones	14.6 psf	13.3 psf	11.6 psf	10.3 psf	10.3 psf
Overhang Zone 2	-47.1 psf	-47.1 psf	-47.1 psf	-47.1 psf	-47.1 psf
Overhang Zone 3	-79.2 psf	-71.5 psf	-61.3 psf	-53.5 psf	-53.5 psf

Walls (ASD) Surface Pressure (psf) - ASD Values					
Area	10 sf	20 sf	50 sf	100 sf	500 sf
Negative Zone 4	-27.4 psf	-26.3 psf	-24.8 psf	-23.6 psf	-21.0 psf
Negative Zone 5	-33.8 psf	-31.6 psf	-28.5 psf	-26.3 psf	-21.0 psf
Positive Zone 4 & 5	29.3 psf	24.1 psf	22.6 psf	21.5 psf	18.8 psf

Parapets (ASD) Surface Pressure (psf) - ASD Values				
Area	10 sf	50 sf	100 sf	500 sf
Positive Interior (Zone 4)	0.0 psf	0.0 psf	0.0 psf	0.0 psf
Positive Corner (Zone 5)	0.0 psf	0.0 psf	0.0 psf	0.0 psf
Negative Interior (Zone 4)	0.0 psf	0.0 psf	0.0 psf	0.0 psf
Negative Corner (Zone 5)	0.0 psf	0.0 psf	0.0 psf	0.0 psf

Note: Pressures listed above are in both values, Ultimate (LRFD) & Service or Nominal (ASD) which have been obtained by multiplying Ultimate values by 0.6. Use service values (ASD) for Wind Resistance Testing Compliance per FBC 1609.1.5



**CANOPY ROOF PLAN**

**COMPONENTS & CLADDING PRESSURES - CANOPY**



**ELEVATION**

**COMPONENTS & CLADDING ZONES - PLAN VIEW & WALL ELEVATION**



1900 MARKET STREET PHILADELPHIA, PA 19103 ©2023

2023.03.30

**SHOP DWGS FOR EXTERIOR ARCADE**

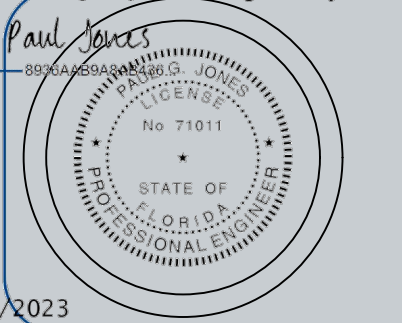
130 RUBY RED PLACE FC, WINTER GARDEN, FL 34787

DATE: 03/30/2023 PROJECT NO.: 23-0004

REVISION DATE GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023 PROFESSIONAL ENGINEER SEAL STATE OF FLORIDA

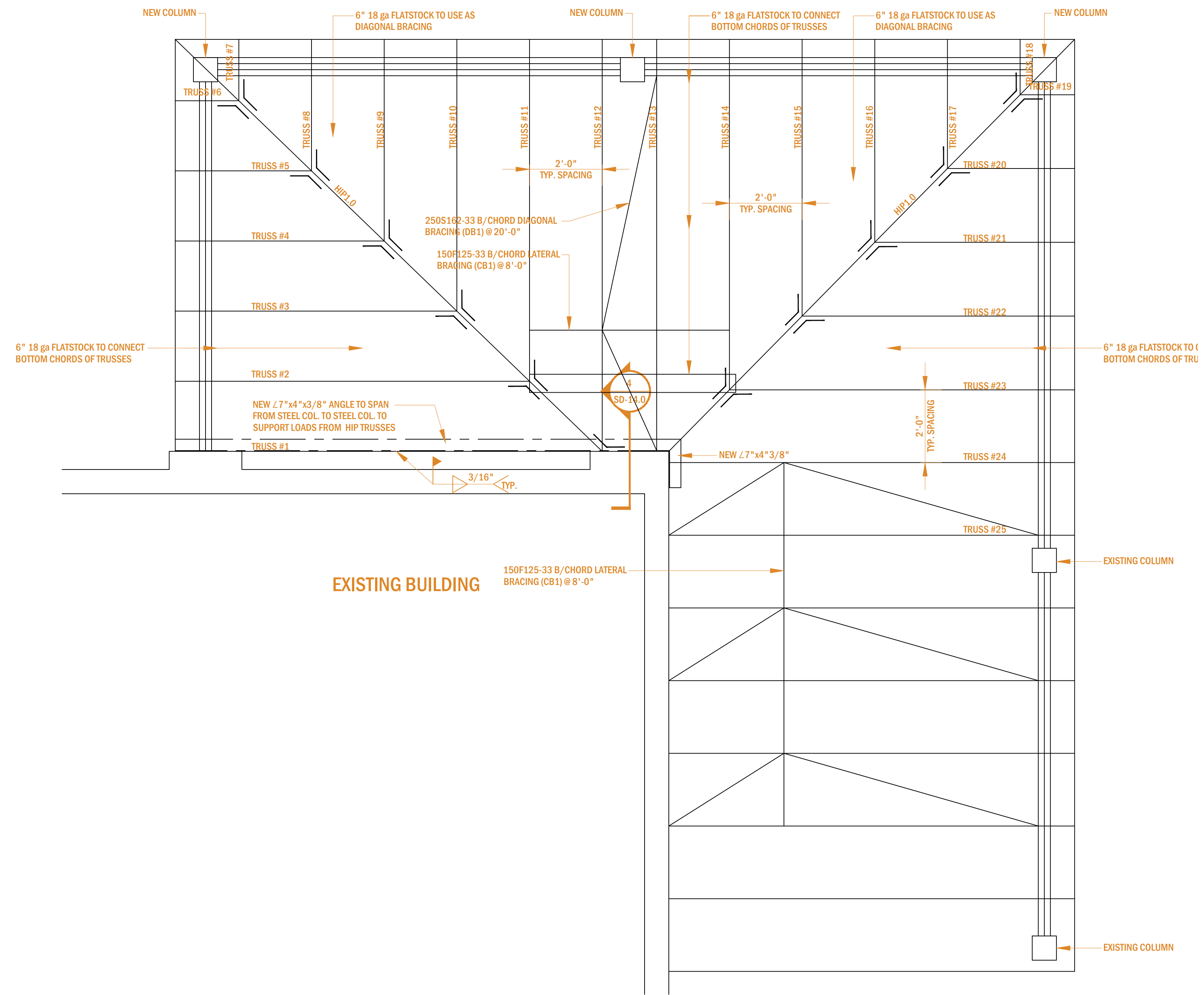
**PARTIAL ROOF TRUSS PLAN**

SCALE: AS NOTED

**SD-0.0**

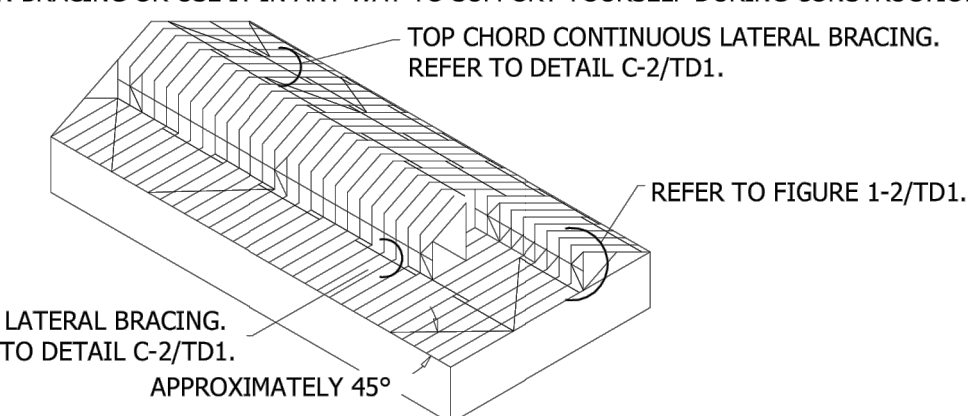
DRAWN BY: JM CHECKED BY: PJ

TYPE & SIZE	ALLOWABLE CONCENTRATED LOAD (lbs) AT CENTER OF SPAN (L)					
	3	4	5	6	7	8
L7"x4"x3/8"	7350	5500	4400	3670	3140	2750



**⚠ DANGER!** DO NOT STAND ON BRACING OR USE IT IN ANY WAY TO SUPPORT YOURSELF DURING CONSTRUCTION OR ANY OTHER TIME.

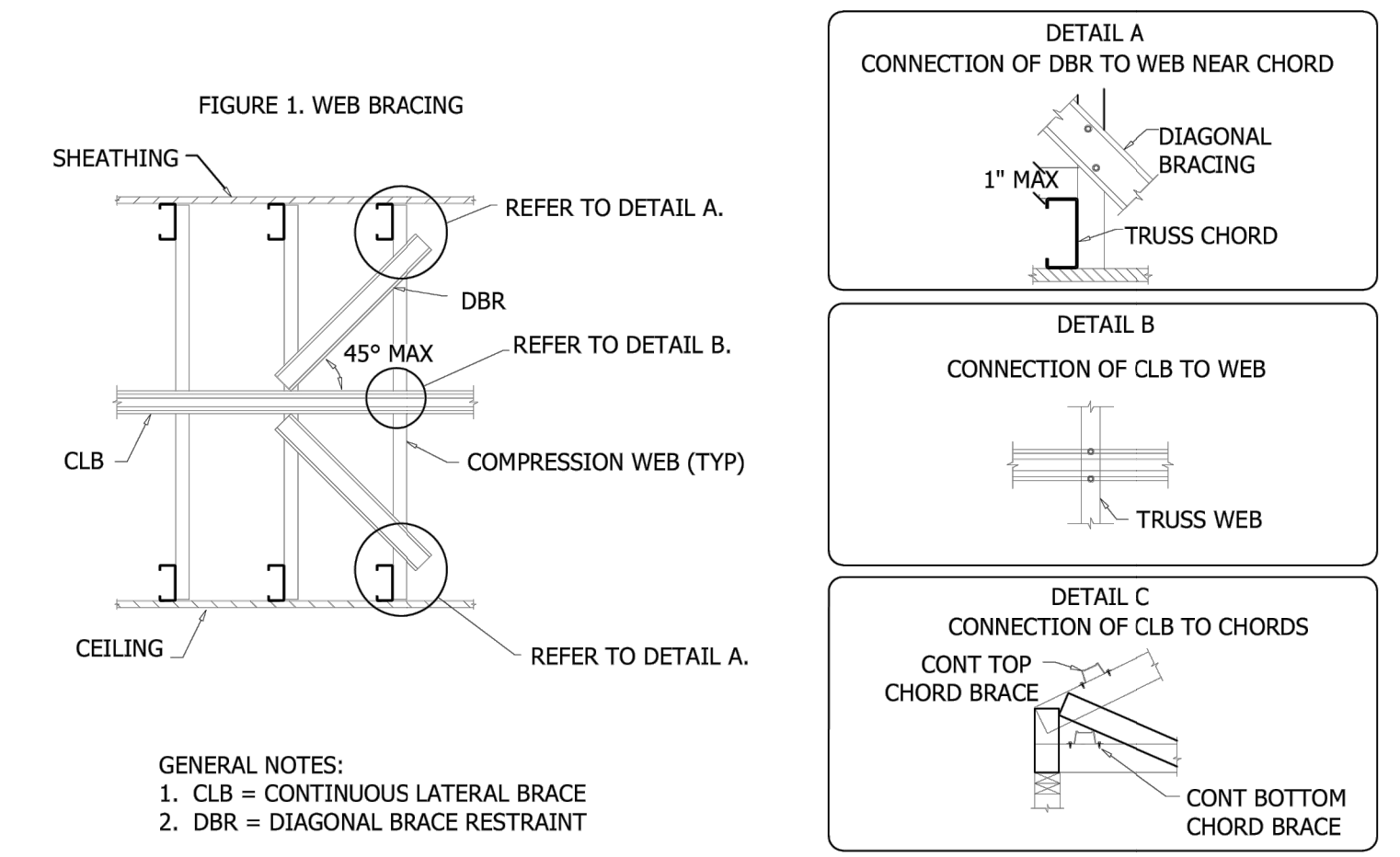
BD20-0282.011  
2/4/2021



**⚠ WARNING!** TEMPORARY BRACING - TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO CHAPTERS B1 AND B2 OF CFSBCSI, "COLD-FORMED STEEL BUILDING COMPONENT SAFETY INFORMATION", FOR REQUIRED BRACE MATERIAL AND CONNECTIONS, AND FOR GENERAL GUIDANCE ON SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. CFSBCSI IS PUBLISHED BY THE COLD-FORMED STEEL COUNCIL (CFSC), 6300 ENTERPRISE LANE, MADISON, WI 53719. FOR ADDITIONAL GUIDANCE, REFER TO THE COLD-FORMED STEEL ENGINEERS INSTITUTE (CFSEI) TECHNICAL NOTE 551D TITLED, "DESIGN GUIDE FOR CONSTRUCTION BRACING OF COLD-FORMED STEEL TRUSSES". CONSULT A REGISTERED DESIGN PROFESSIONAL IF TRUSS SPAN IS OVER 60'(18288MM) OR TRUSS SPACING IS OVER 48"(1219MM) O.C.

**⚠ WARNING!** PERMANENT BRACING - PERMANENT BRACING SYSTEMS AND ASSOCIATED MEMBERS AND CONNECTIONS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. FOR GUIDANCE, TRUSSTEEL RECOMMENDS REFERRING TO CFSEI TECHNICAL NOTE 551E TITLED, "DESIGN GUIDE FOR PERMANENT BRACING OF COLD-FORMED STEEL TRUSSES". ALTERNATIVELY, THE BUILDING DESIGNER AND/OR THE REGISTERED DESIGN PROFESSIONAL SHALL BE PERMITTED TO SPECIFY PERMANENT AND INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING IN ACCORDANCE WITH SECTION B4.5 OF AISI S214-07/S2-08 (NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN).

### TRUSS TEMPORARY & PERMANENT BRACING GUIDELINES



2023.03.30

### PROJECT: SHOP DWGS FOR EXTERIOR ARCADE

130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787  
DATE: 03/30/2023  
PROJECT NO.: 23-0004  
REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

### 1 PARTIAL ROOF TRUSS PLAN

SCALE: 1/2" = 1'-0"

### TRUSS TEMPORARY & PERMANENT BRACING GUIDELINES

DocuSigned by:  
*Paul Jones*  
5/17/2023  
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

### PARTIAL ROOF TRUSS PLAN

SCALE: AS NOTED

# SD-0.1

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	358CS118	10.46	3.15C	1.00	#10 SD	0.000	0
#2	358CS118	11.42	1.49C	0.70	#10 SD	0.000	0
#3	358CS118	3.83	0.80T	0.91	#10 SD	0.534	8
#4	358CS118	4.66	0.05T	0.03	#10 SD	0.177	8
#5	358CS118	2.33	0.64C	0.32	#10 SD	0.177	8
#6	358CS118	4.33	0.70C	0.29	#10 SD	0.177	8
#7	6CS118	0.53	1.33T	0.85	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
TRUSS CHORD	SEE NOTES	1	1.08		#10 SD	0.522	8
STEEL STUD	SEE NOTES			1.08	#10 SD	0.522	8
TRUSS CHORD	SEE NOTES	2	1.79		#10 SD	0.522	8
TRUSS GIRDER	SEE NOTES			1.79	#10 SD	0.522	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-358CS118	3.15C	0.07	1.50	3.45	4.40	17.66	1.00
TOP CHORD	1-358CS118	1.49T	2.10	4.49	12.63	3.37	14.01	0.70
WEB	1-358CS118	0.04T	0.00	3.89	16.65	2.83	27.75	0.91

TRUSS DESIGN CODE: AISI S214-07  
 ASCE 7-16: PASSSD  
 DESIGN METHOD: (ASD)  
 COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.137 in (L/1284)
HORIZONTAL	0.025 in
TOP OVERHANG	0.019 in (L/625)
VERTICAL	0.040 in (L/4398) [DEAD LOAD ONLY]
VERTICAL	0.062 in (L/2837) [LIVE LOAD ONLY]

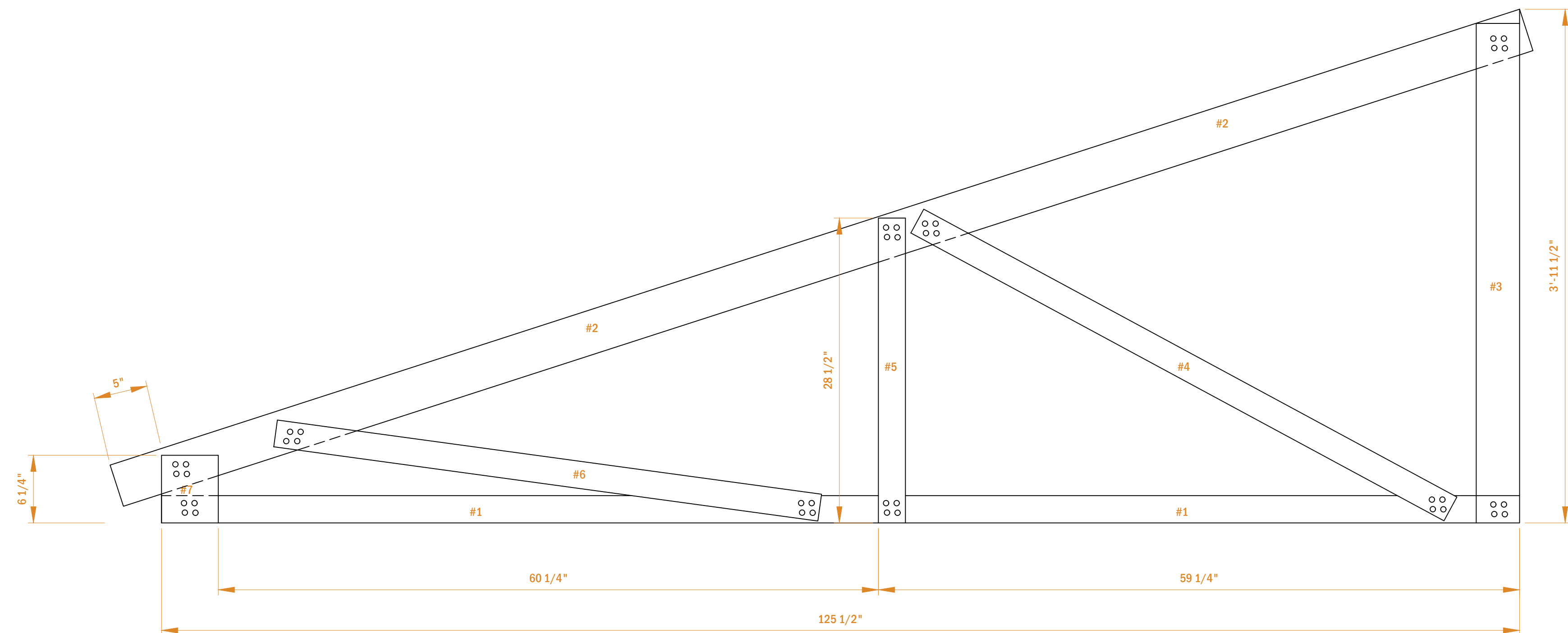
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.71 (0.71)	-1.08 [-2.09]	0.02	8.49
RIGHT	1.26 (1.26)	-1.79 [-3.47]	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

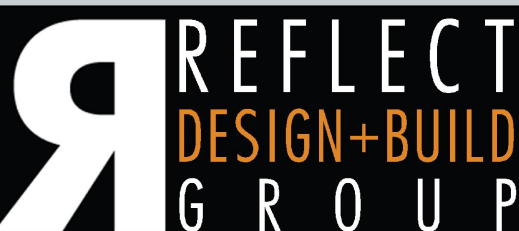
- [ ] DENOTES "DEAD+LIVE ONLY"
- [ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 5 EACH  
 PLATE STYLE : OUT-OF-PLANE  
 EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
 BEARING : 8.264 in  
 SPACING : 2.00 ft  
 DEAD LOAD : 10.00 PSF (TOP CHORD)  
 DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
 LIVE LOAD : 20.00 PSF (TOP CHORD)  
 LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
 SNOW LOAD : 0.00 PSF (GROUND) [Ct=1.00]  
 WIND LOAD : 35.09 PSF (DESIGN)  
 WIND SPEED : 139 MPH (EXPOSURE C)  
 OPEN CATEGORY : E  
 TOPOGRAPHY (Kz) : 1  
 BUILDING CATEGORY : (2) GENERAL  
 DELETE WIND LOAD : RIGHT END  
 SEISMIC COEFFICIENT: 0.0



**1** TRUSS 1, 12, 13, 24 & 25  
 SCALE: 1-1/2" = 1'-0"



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 PHILADELPHIA, PA 19103

2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

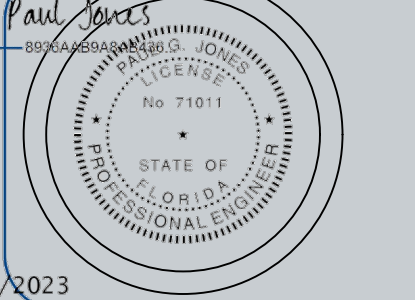
130 RUBY RED PLACE FC,  
 WINTER GARDEN, FL 34787

DATE: 03/30/2023  
 PROJECT NO.: 23-0004

REVISION DATE  
 GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:  
 Paul Jones



5/17/2023

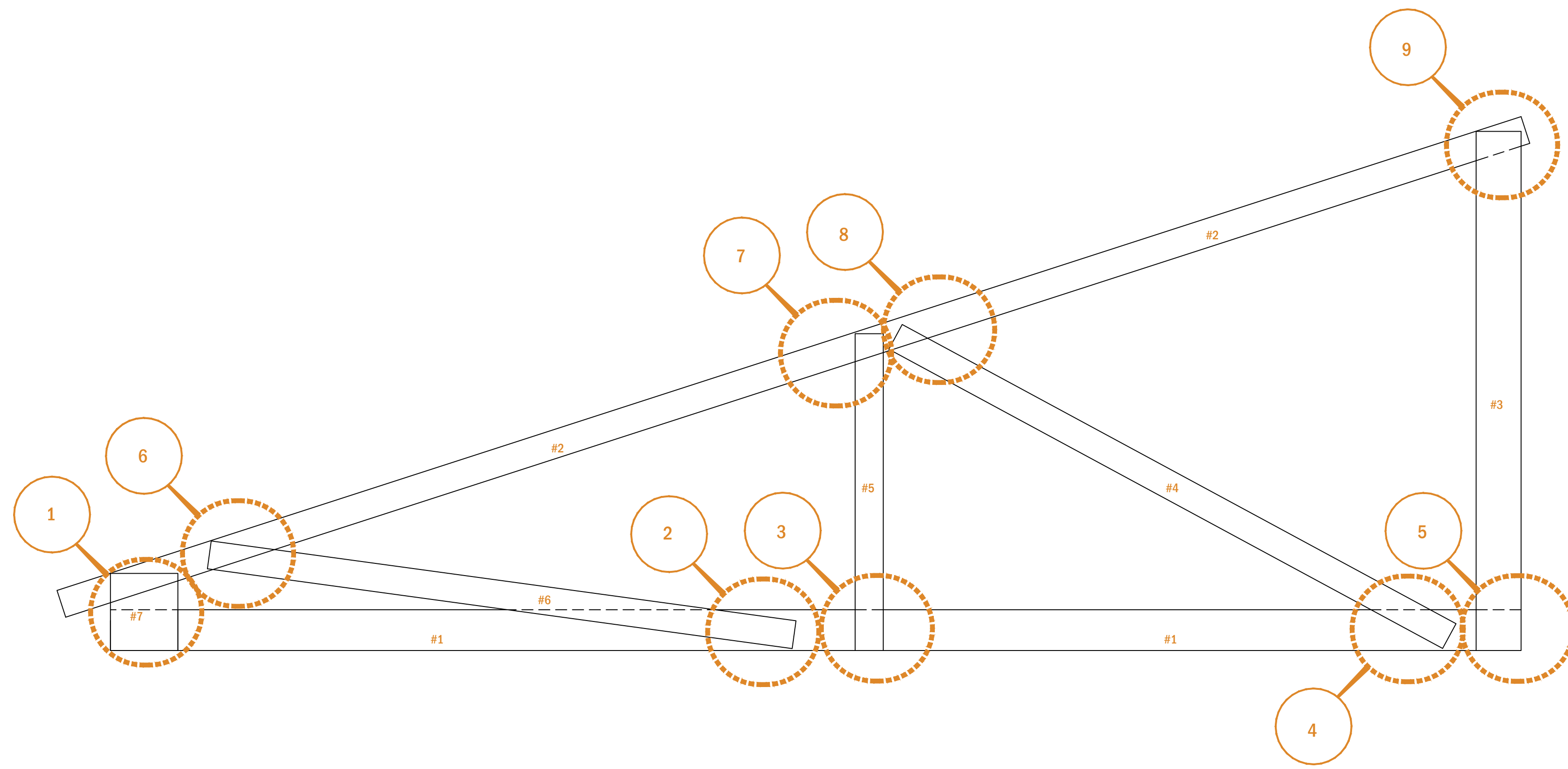
PROFESSIONAL ENGINEER SEAL  
 STATE OF FLORIDA

**TRUSS 1, 12, 13, 24 & 25**

SCALE: AS NOTED

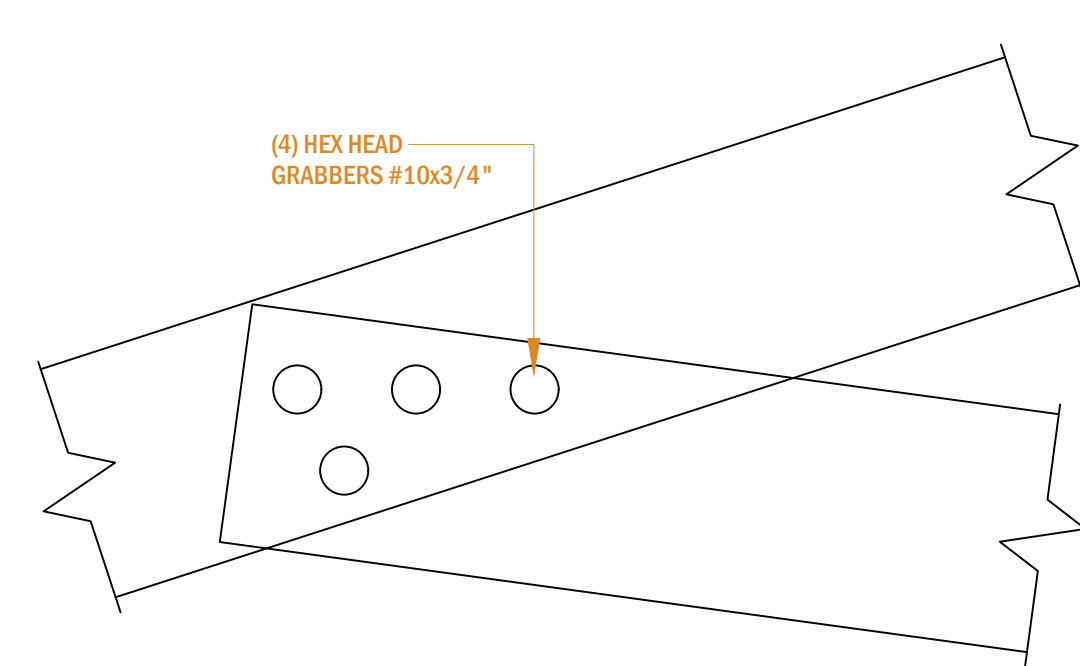
**SD-1.0**

DRAWN BY: JM  
 CHECKED BY: PJ



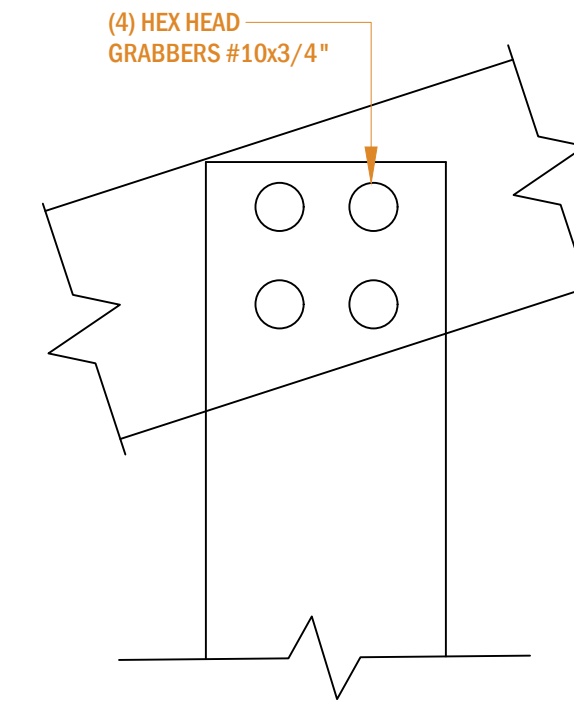
**TRUSS CONNECTION KEY**

SCALE: 1-1/2" = 1'-0"



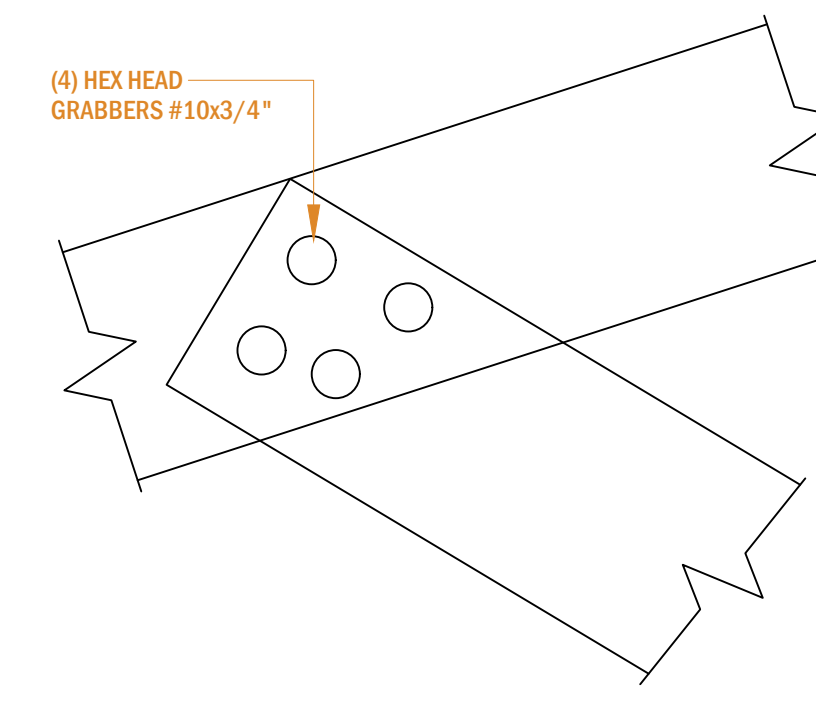
**6 TRUSS CONNECTION 6**

SCALE: 6" = 1'-0"



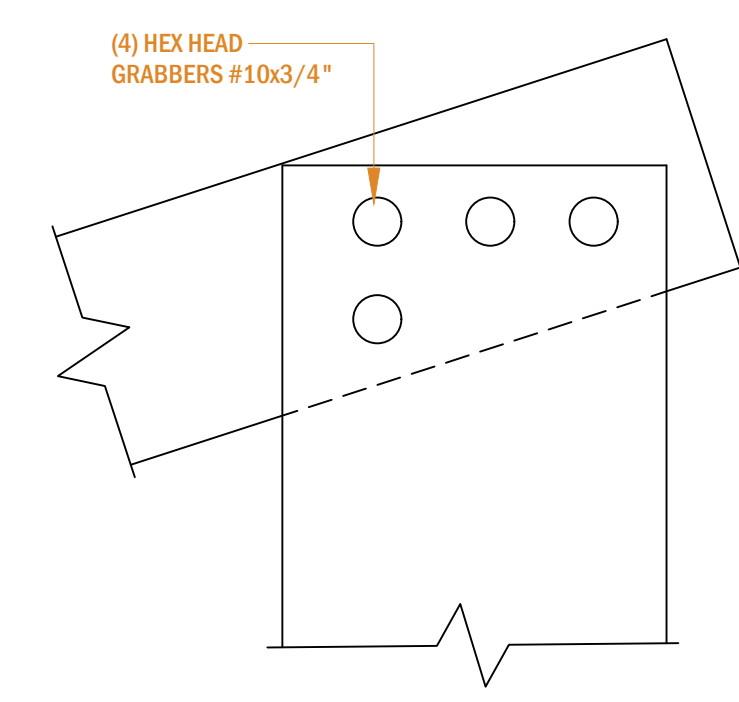
**7 TRUSS CONNECTION 7**

SCALE: 6" = 1'-0"



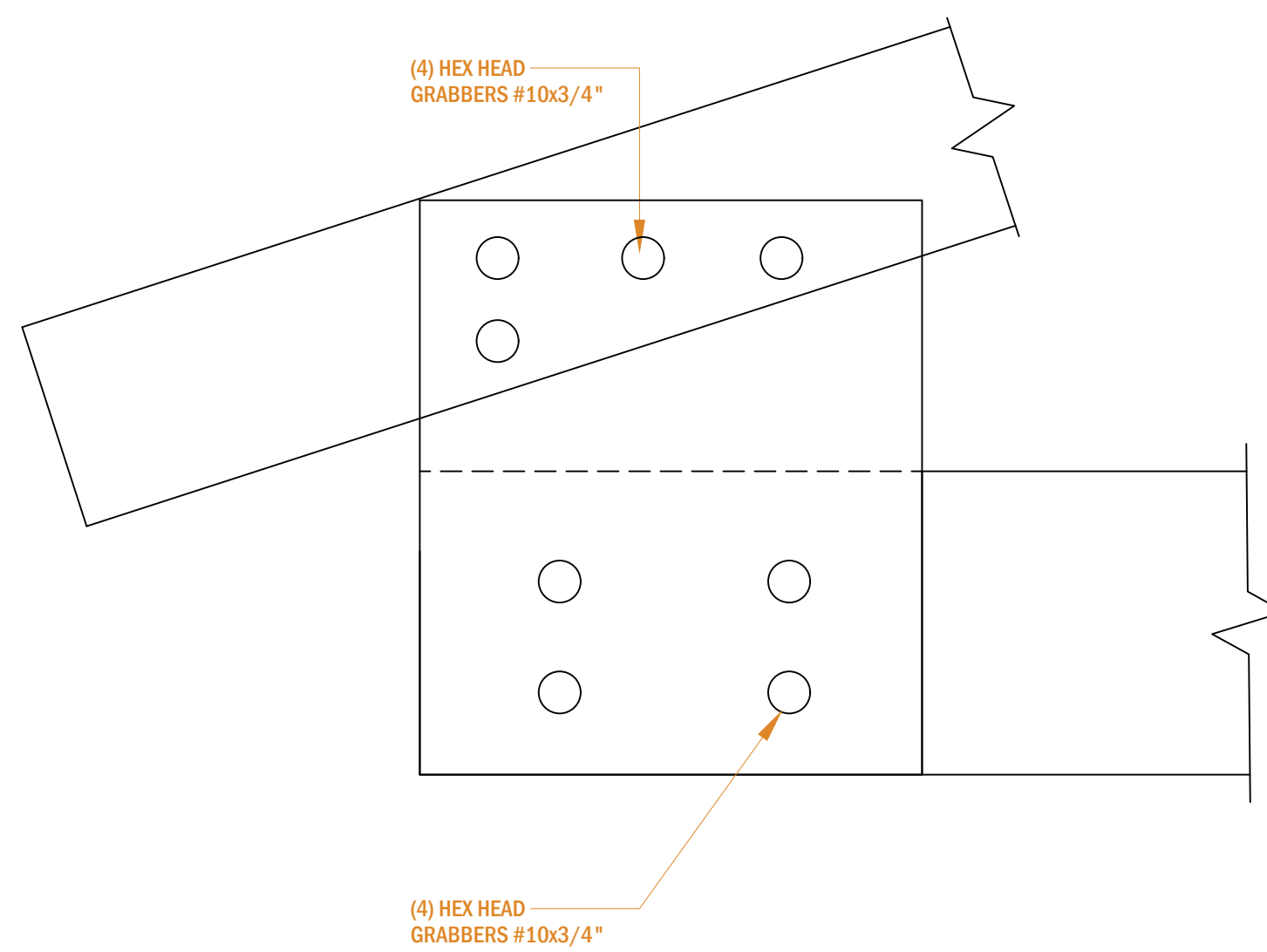
**8 TRUSS CONNECTION 8**

SCALE: 6" = 1'-0"



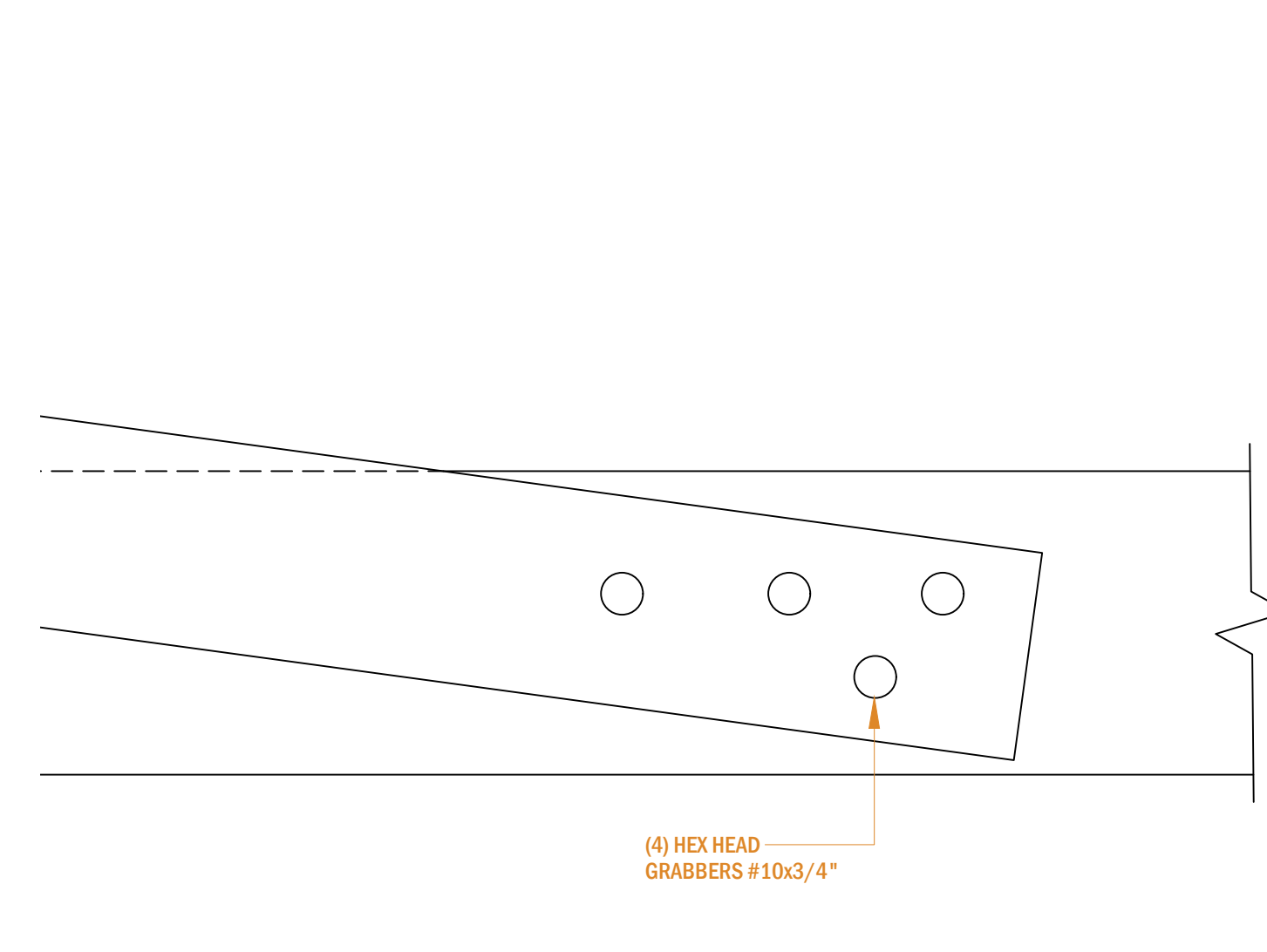
**9 TRUSS CONNECTION 8**

SCALE: 6" = 1'-0"



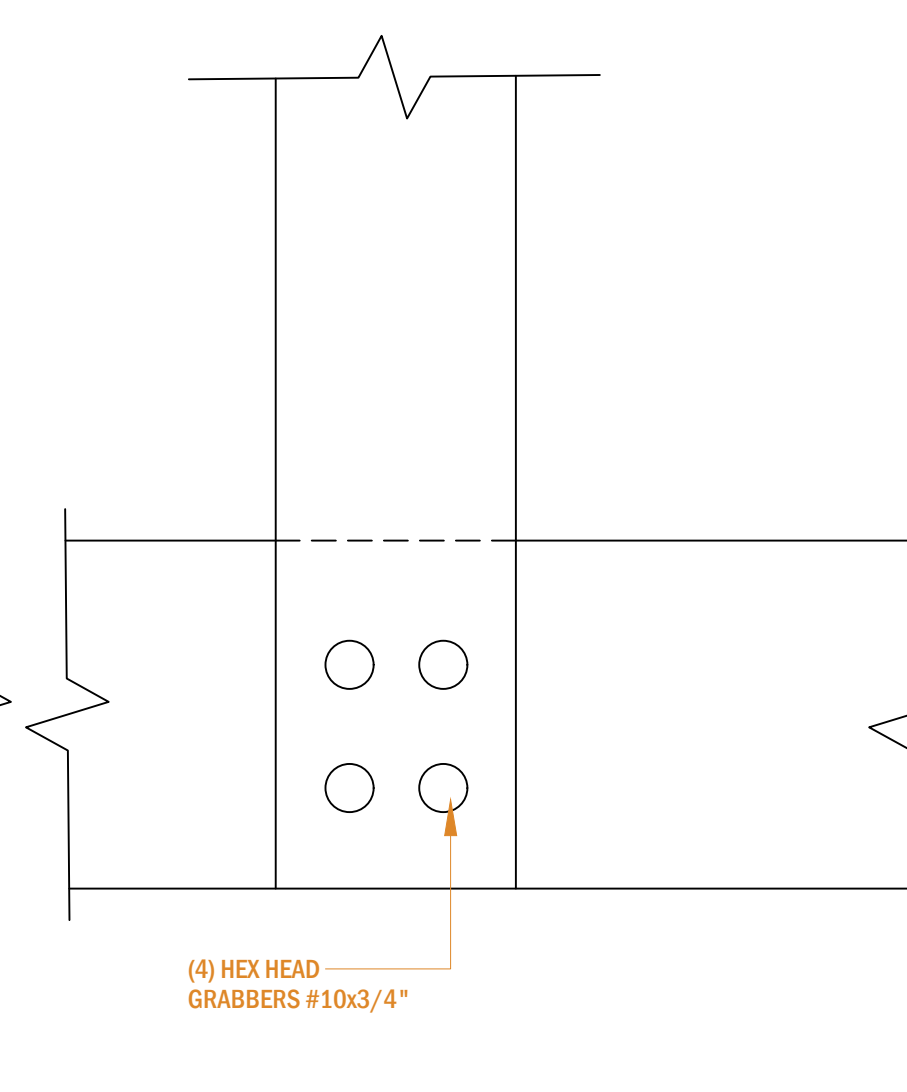
**1 TRUSS CONNECTION 1**

SCALE: 6" = 1'-0"



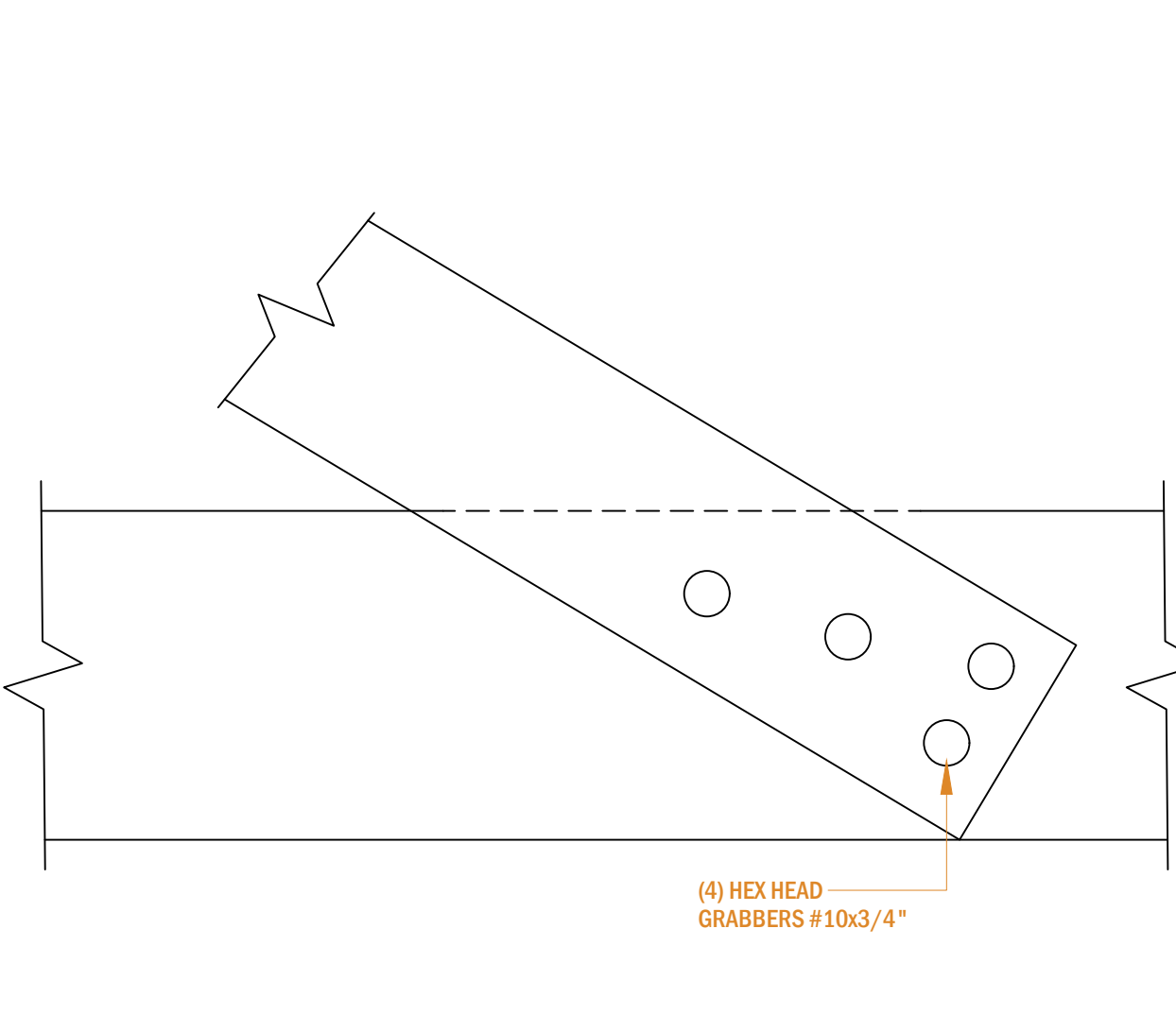
**2 TRUSS CONNECTION 2**

SCALE: 6" = 1'-0"



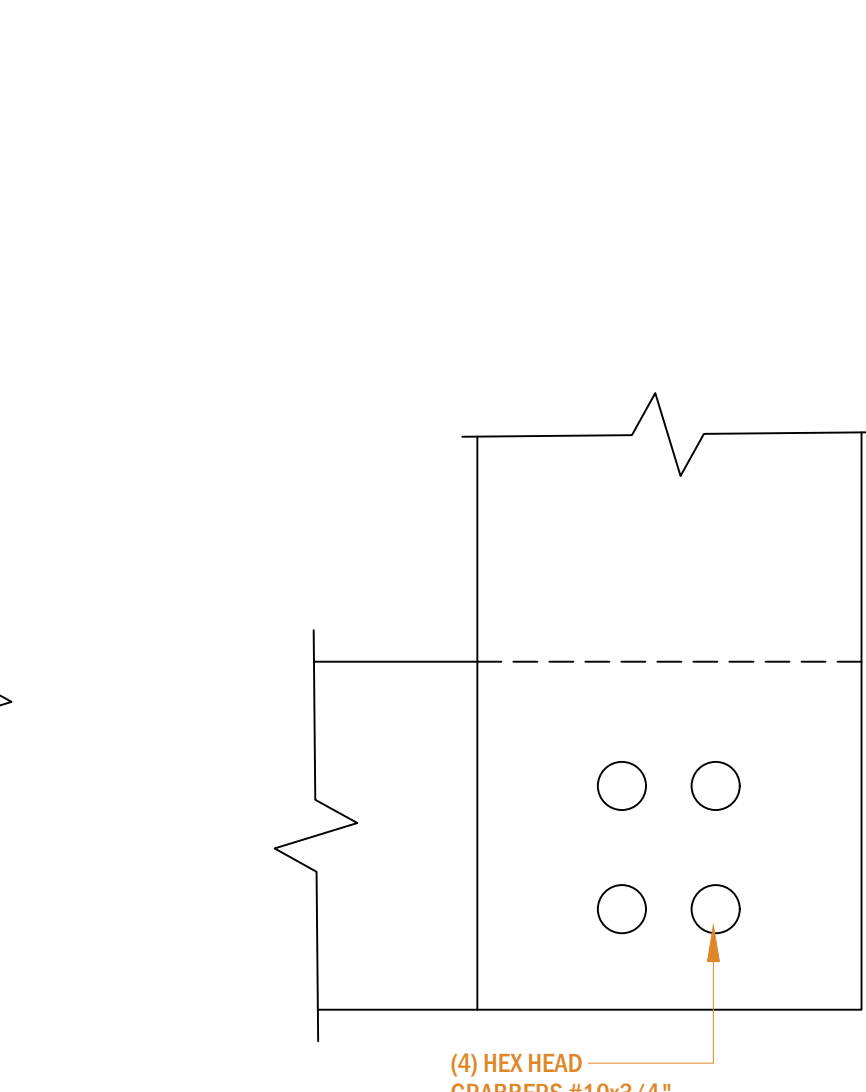
**3 TRUSS CONNECTION 3**

SCALE: 6" = 1'-0"



**4 TRUSS CONNECTION 4**

SCALE: 6" = 1'-0"



**5 TRUSS CONNECTION 5**

SCALE: 6" = 1'-0"

2023.03.30

PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

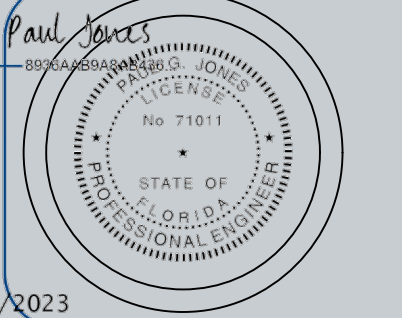
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 1, 12, 13, 24 &  
25 CONNECTIONS**

SCALE: AS NOTED

**SD-1.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	212CS118	10.46	3.15C	1.00	#10 SD	0.000	0
#2	212CS118	11.42	1.49C	0.70	#10 SD	0.000	0
#3	358CS118	3.83	0.80T	0.91	#10 SD	0.534	8
#4	212CS118	4.66	0.05T	0.03	#10 SD	0.177	8
#5	358CS118	2.33	0.64C	0.32	#10 SD	0.177	8
#6	358CS118	4.33	0.70C	0.29	#10 SD	0.177	8
#7	6CS118	0.53	1.33T	0.85	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
TRUSS CHORD	SEE NOTES	1	1.08		#10 SD	0.522	8
STEEL STUD	SEE NOTES			1.08	#10 SD	0.522	8
TRUSS CHORD	SEE NOTES	2	1.79		#10 SD	0.522	8
TRUSS GIRDER	SEE NOTES			1.79	#10 SD	0.522	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-212CS118	3.15C	0.07	1.50	3.45	4.40	17.66	1.00
TOP CHORD	1-212CS118	1.49T	2.10	4.49	12.63	3.37	14.01	0.70
WEB	1-358CS118	0.04T	0.00	3.89	16.65	2.83	27.75	0.91

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSSD  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.137 in (L/1284)
HORIZONTAL	0.025 in
TOP OVERHANG	0.019 in (L/625)
VERTICAL	0.040 in (L/4398) [DEAD LOAD ONLY]
VERTICAL	0.062 in (L/2837) [LIVE LOAD ONLY]

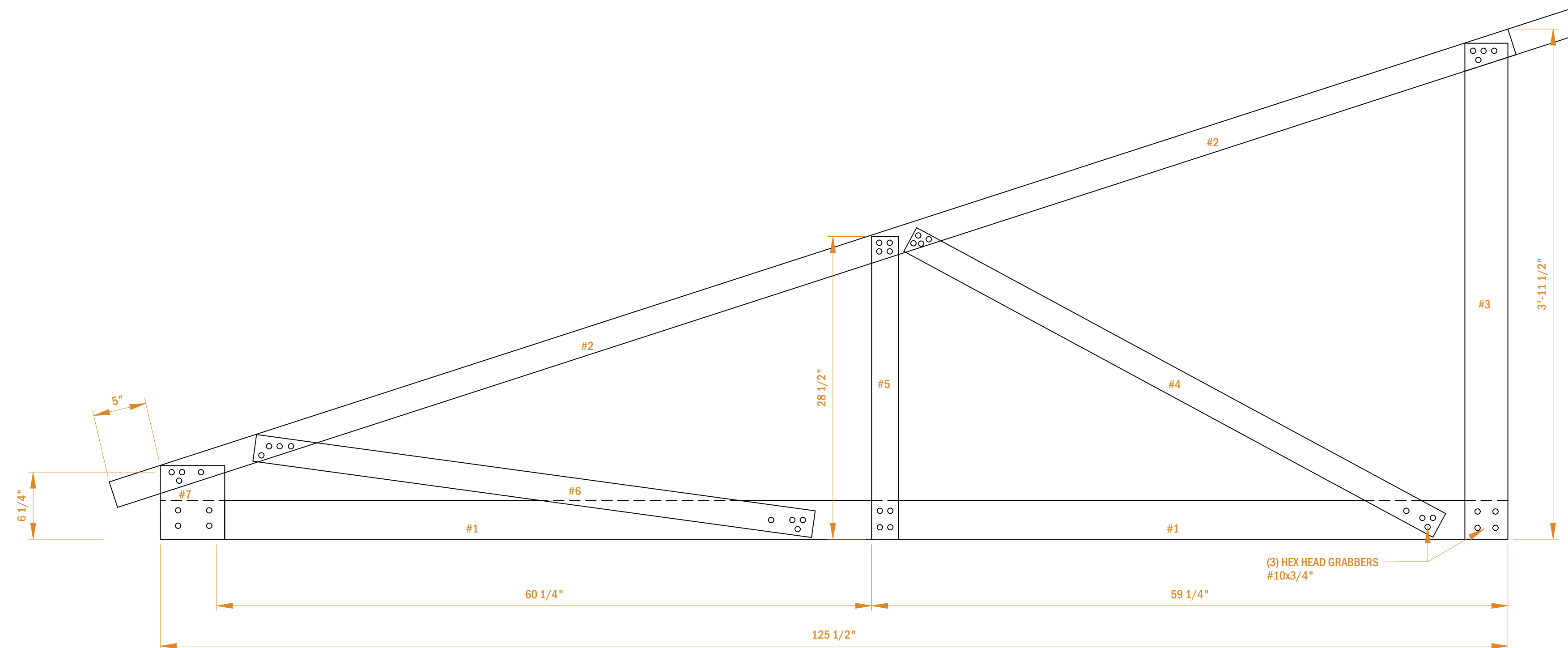
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.71 (0.71)	-1.08 (-2.09)	0.02	8.49
RIGHT	1.26 (1.26)	-1.79 (-3.47)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

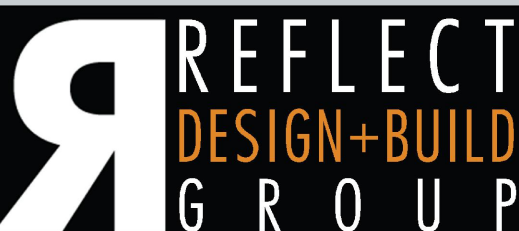
- [ ] DENOTES "DEAD+LIVE ONLY"
- [ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 8.264 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1 TRUSS 2 & 11**  
SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:  
**SHOP DWGS FOR EXTERIOR ARCADE**

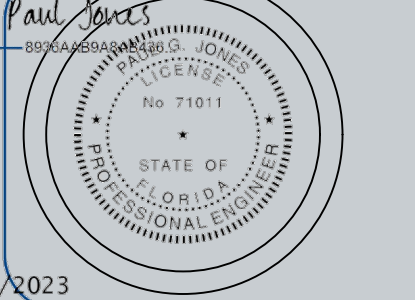
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

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NOTES:

DocuSigned by:



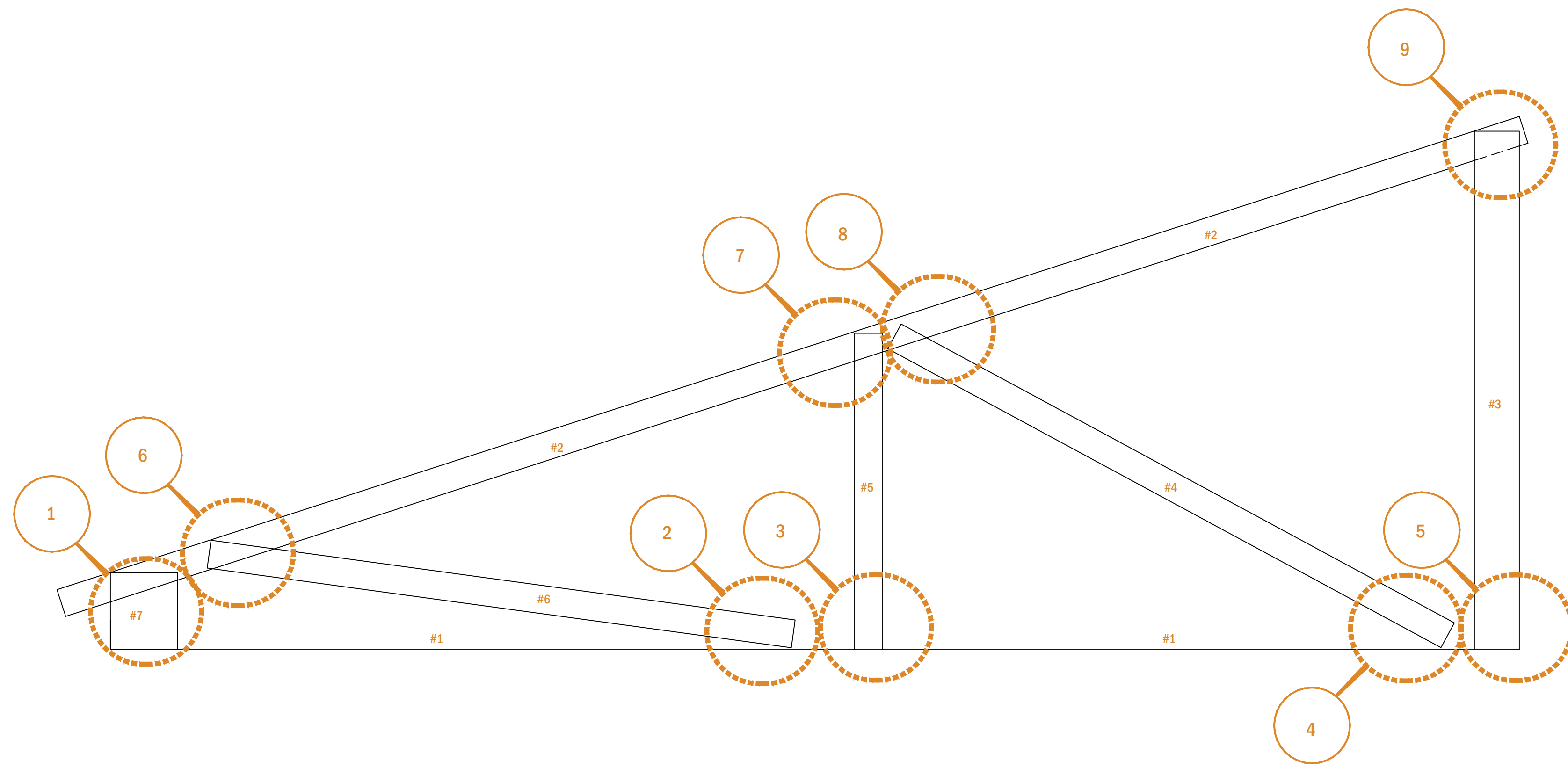
5/17/2023  
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STATE OF FLORIDA

**TRUSS 2 & 11**

SCALE: AS NOTED

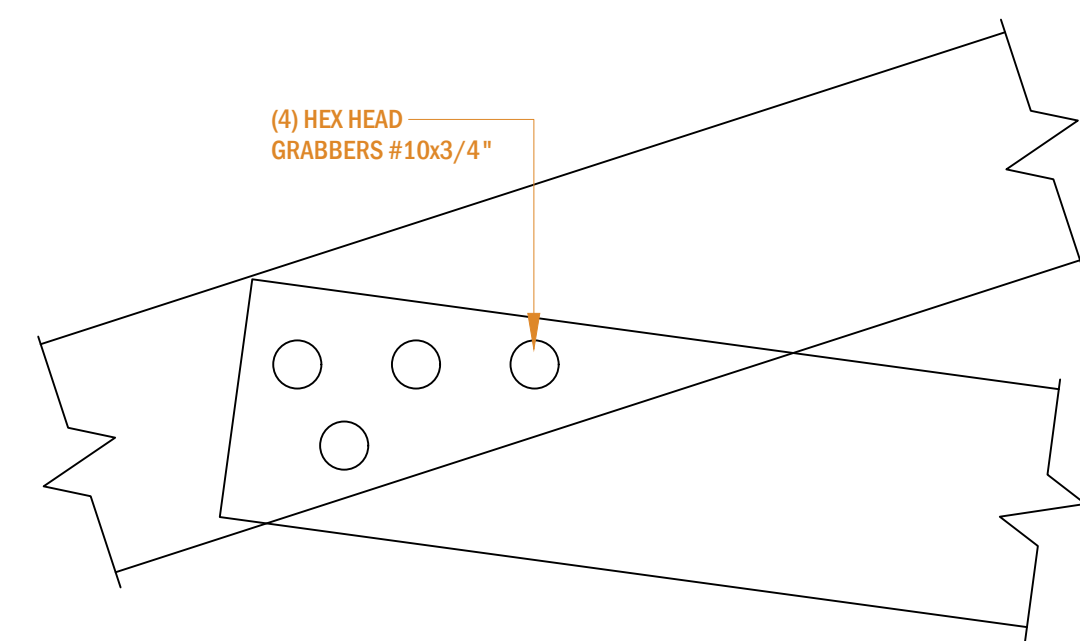
**SD-2.0**

DRAWN BY: JM  
CHECKED BY: PJ

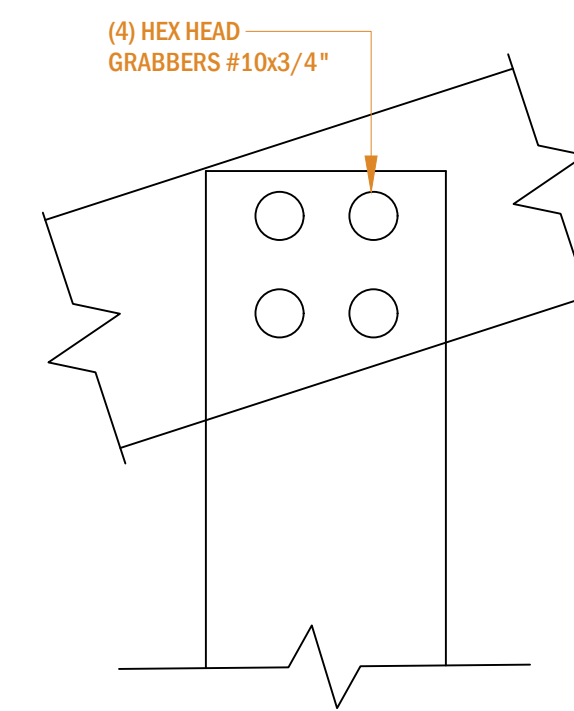


**TRUSS CONNECTION KEY**

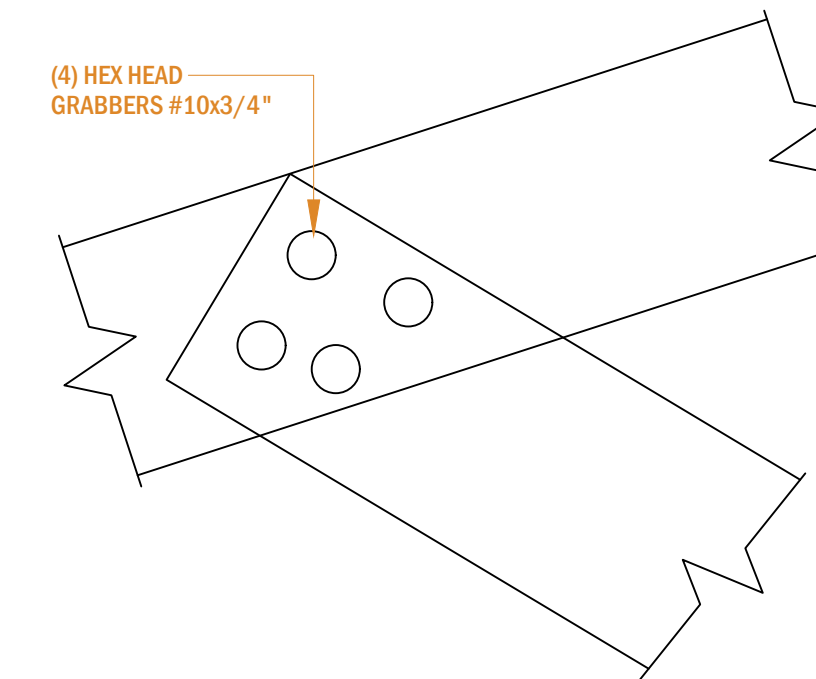
SCALE: 1-1/2" = 1'-0"



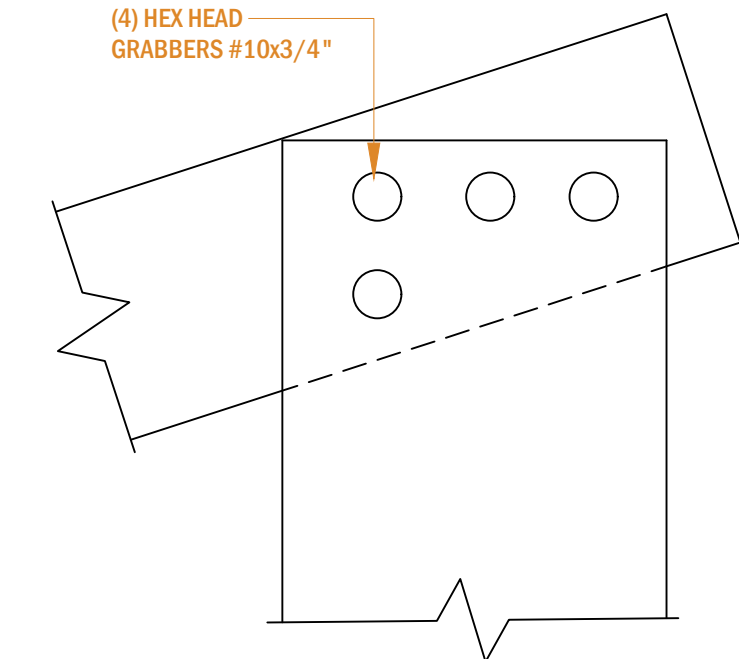
**6 TRUSS CONNECTION 6**  
SCALE: 6" = 1'-0"



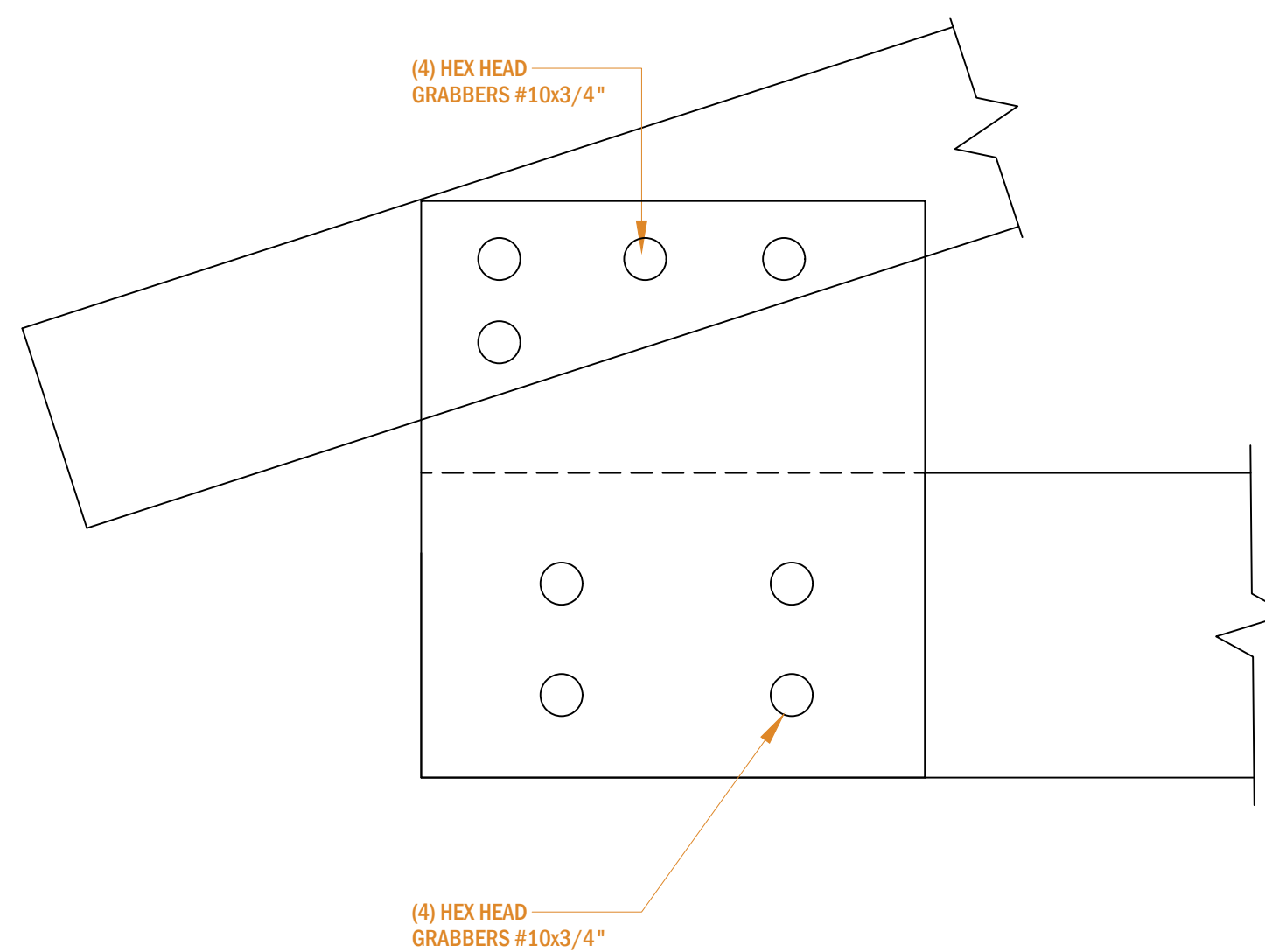
**7 TRUSS CONNECTION 7**  
SCALE: 6" = 1'-0"



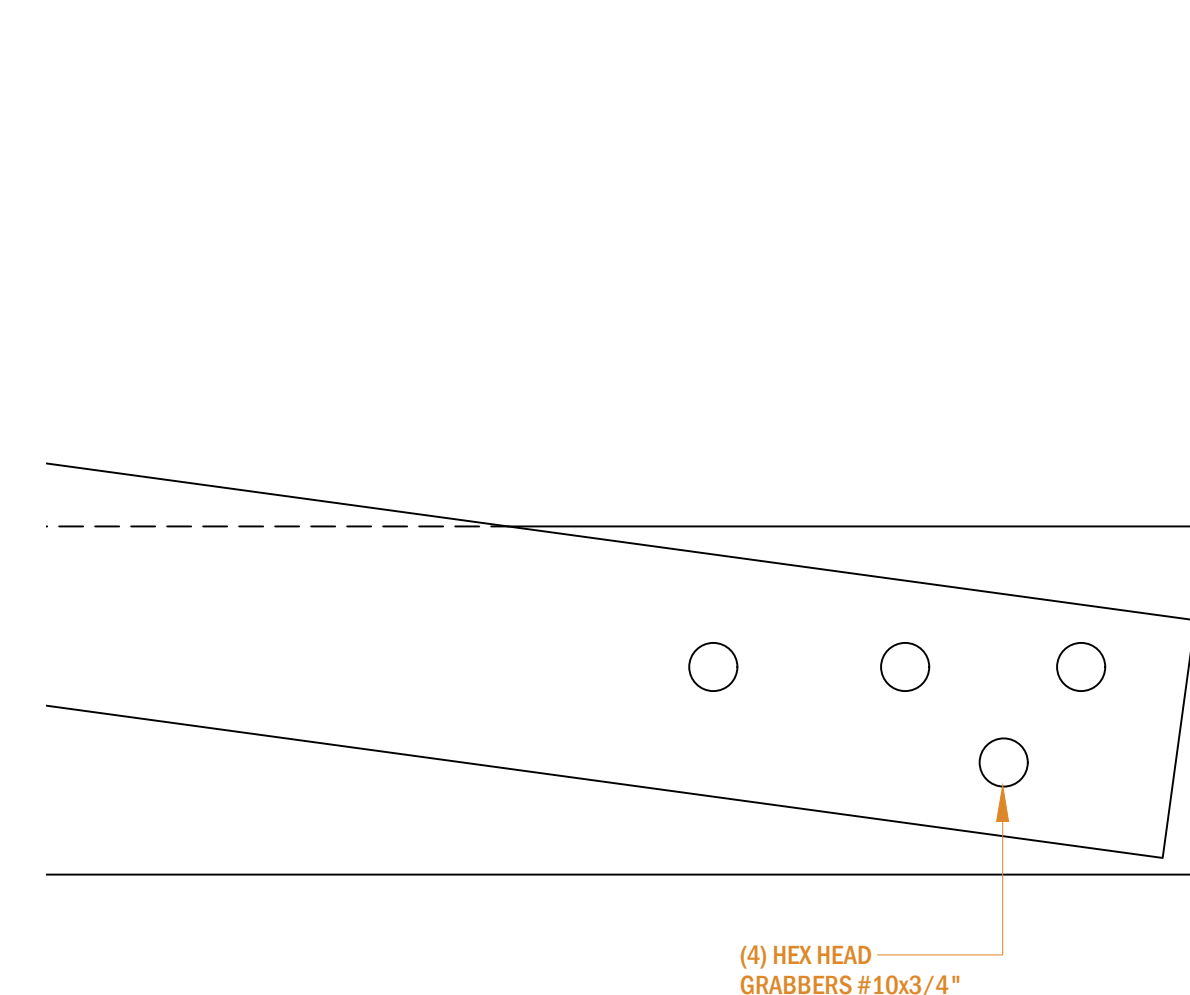
**8 TRUSS CONNECTION 8**  
SCALE: 6" = 1'-0"



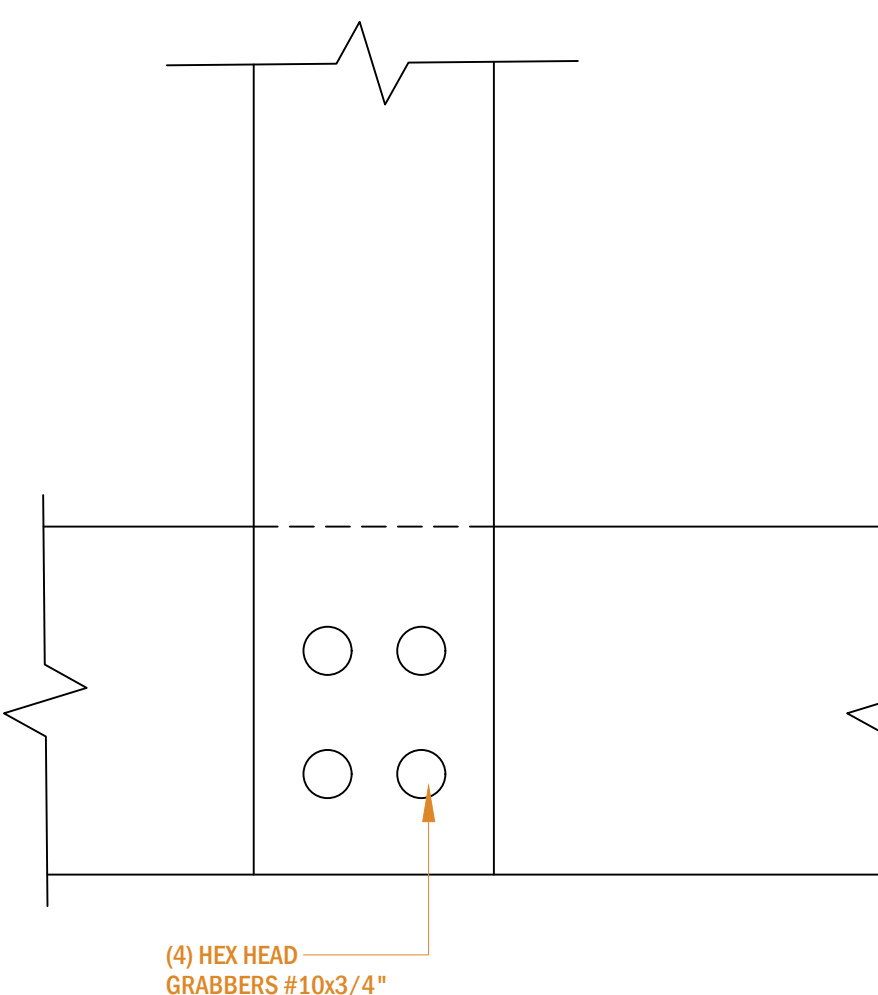
**9 TRUSS CONNECTION 8**  
SCALE: 6" = 1'-0"



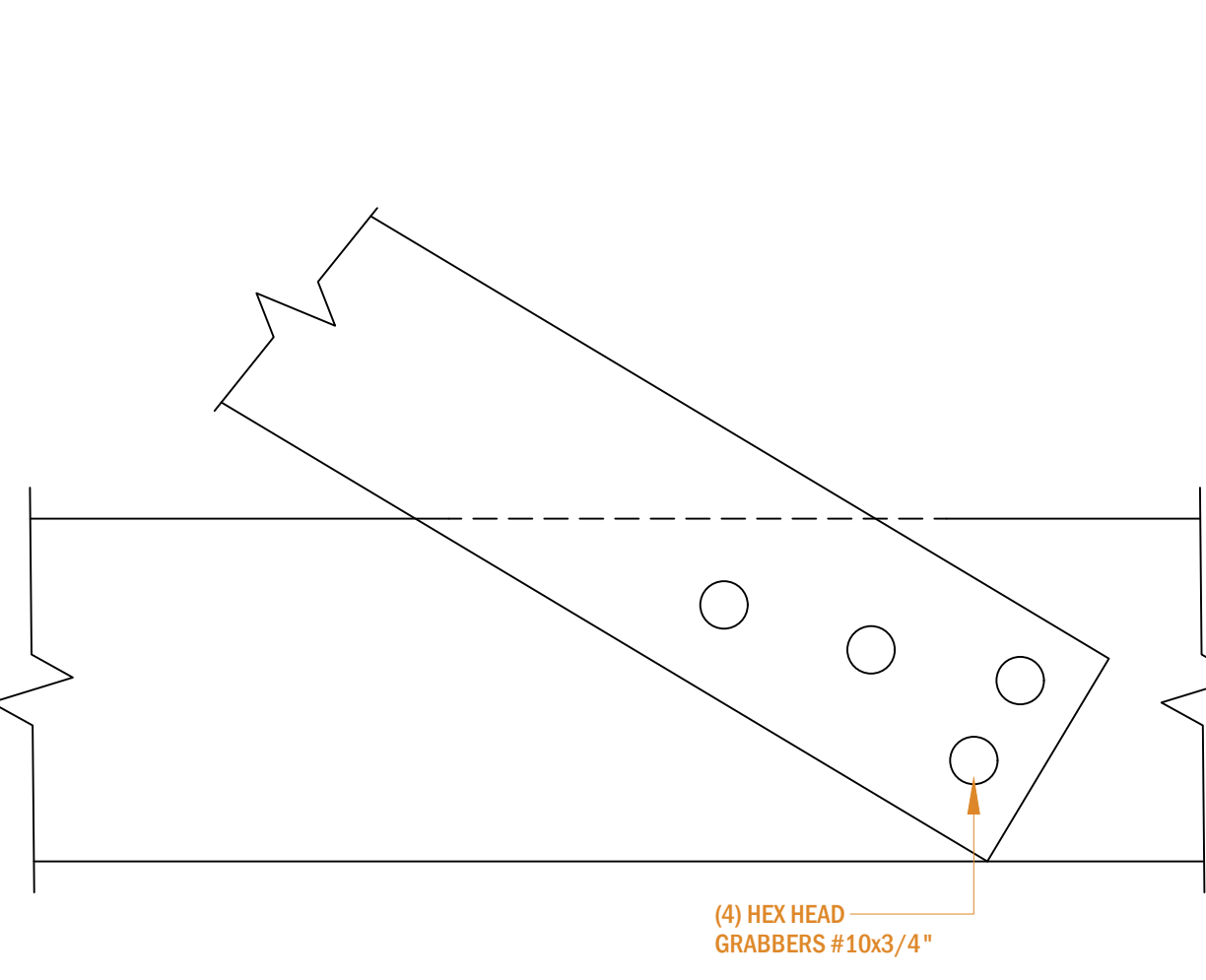
**1 TRUSS CONNECTION 1**  
SCALE: 6" = 1'-0"



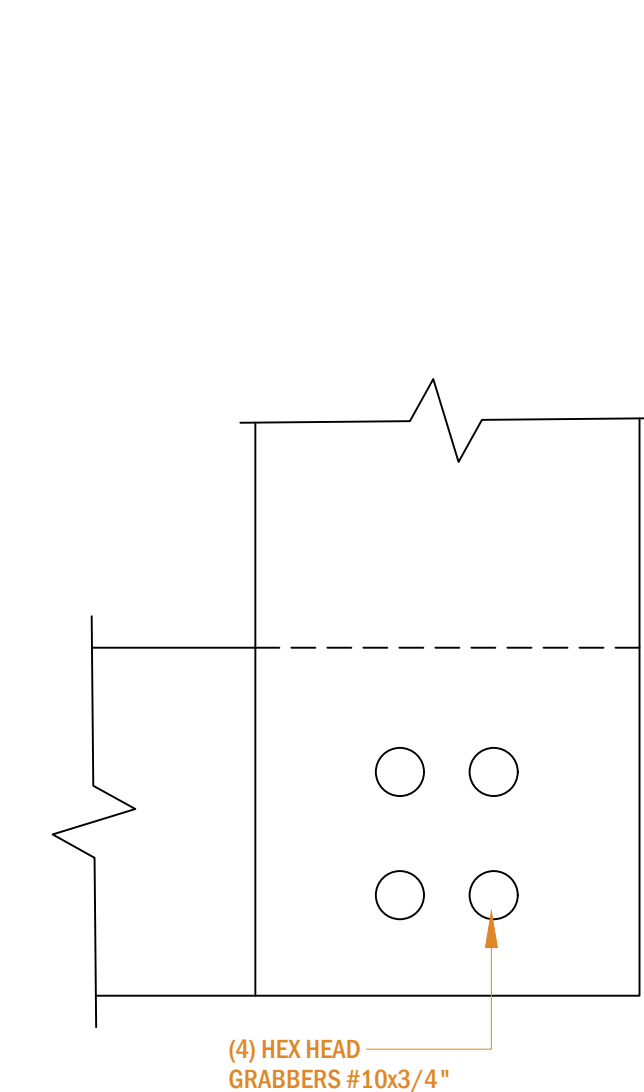
**2 TRUSS CONNECTION 2**  
SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**  
SCALE: 6" = 1'-0"



**4 TRUSS CONNECTION 4**  
SCALE: 6" = 1'-0"



**5 TRUSS CONNECTION 5**  
SCALE: 6" = 1'-0"

2023.03.30

PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

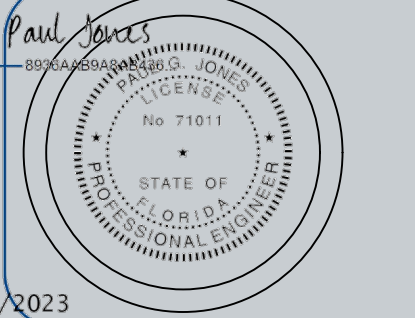
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023  
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 2 & 11  
CONNECTIONS**

SCALE: AS NOTED

**SD-2.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	212CS118	10.46	2.87C	0.93	#10 SD	0.000	0
#2	212CS118	11.42	1.25C	0.76	#10 SD	0.000	0
#3	358CS118	3.83	0.60T	0.93	#10 SD	0.534	8
#4	212CS118	4.66	0.03T	0.03	#10 SD	0.177	8
#5	6CSJ18	0.53	1.39T	0.79	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
TRUSS CHORD	SEE NOTES	1	0.86		#10 SD	0.522	8
STEEL STUD	SEE NOTES			1.03	#10 SD	0.522	8
TRUSS CHORD	SEE NOTES	2	1.83		#10 SD	0.522	8
TRUSS GIRDER	SEE NOTES			1.83	#10 SD	0.522	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-212CS118	2.87C	0.09	1.63	3.45	4.48	16.39	1.00
TOP CHORD	1-212CS118	1.25T	1.90	4.35	12.45	3.21	13.97	0.70
WEB	1-358CS118	0.04T	0.00	3.67	16.57	2.69	28.01	0.91

TRUSS DESIGN CODE: AISI S214-07  
 ASCE 7-16: PASSSD  
 DESIGN METHOD: (ASD)  
 COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

1. TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
2. NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
3. ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
4. (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
5. MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.142 in (L/1284)
HORIZONTAL	0.031 in
TOP OVERHANG	0.021 in (L/625)
VERTICAL	0.042 in (L/4398) [DEAD LOAD ONLY]
VERTICAL	0.067 in (L/2837) [LIVE LOAD ONLY]

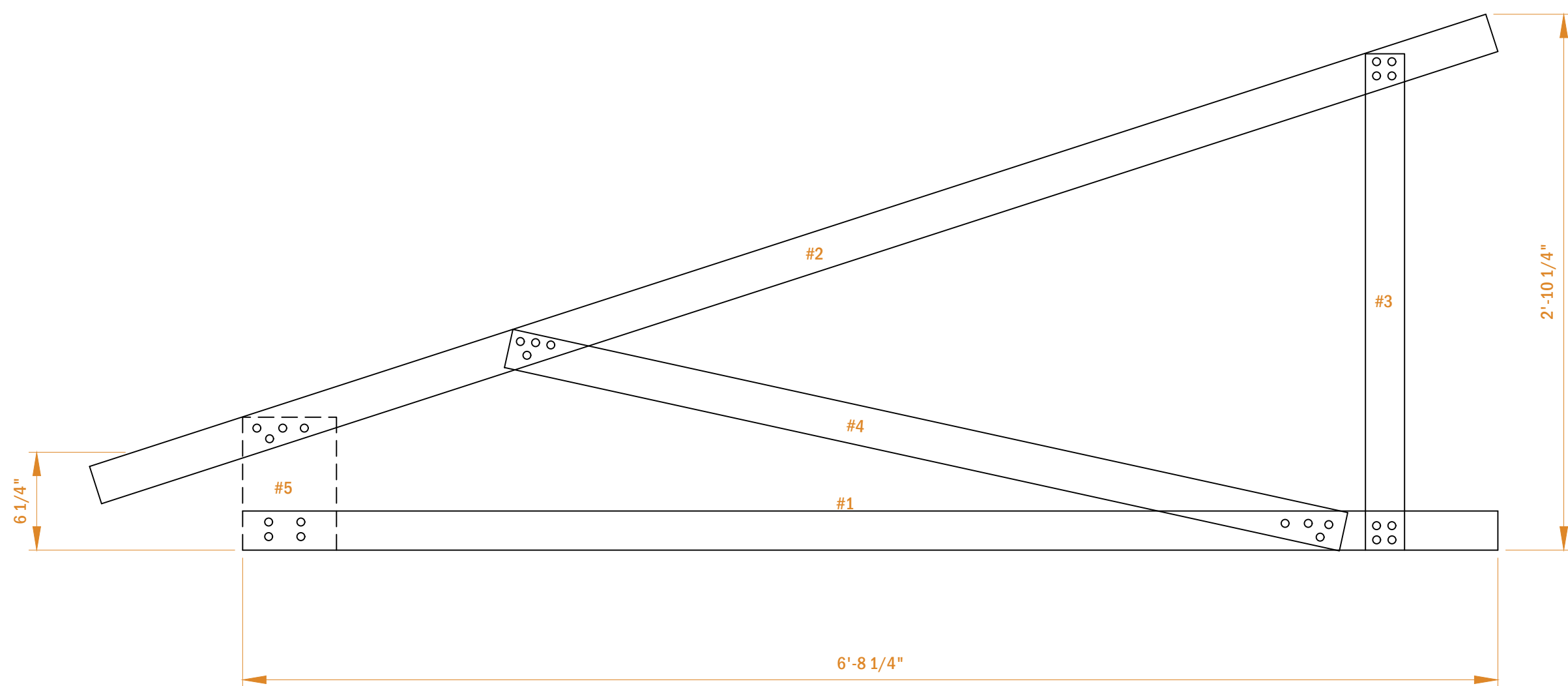
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.73 (0.73)	-1.03 (-2.02)	0.04	9.53
RIGHT	1.32 (1.32)	-1.83 (-3.64)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

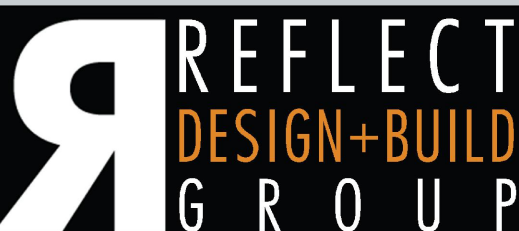
[ ] DENOTES "DEAD+LIVE ONLY"  
 [ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
 PLATE STYLE : OUT-OF-PLANE  
 EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
 BEARING : 9.523 in  
 SPACING : 2.00 ft  
 DEAD LOAD : 10.00 PSF (TOP CHORD)  
 DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
 LIVE LOAD : 20.00 PSF (TOP CHORD)  
 LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
 SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
 WIND LOAD : 35.09 PSF (DESIGN)  
 WIND SPEED : 139 MPH (EXPOSURE C)  
 OPEN CATEGORY : E  
 TOPOGRAPHY (Kz) : 1  
 BUILDING CATEGORY : (2) GENERAL  
 DELETE WIND LOAD : RIGHT END  
 SEISMIC COEFFICIENT: 0.0



**1 TRUSS 3 & 10**  
 SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

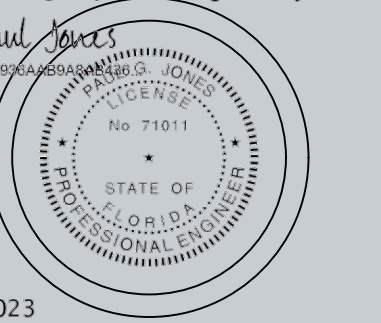
130 RUBY RED PLACE FC,  
 WINTER GARDEN, FL 34787

DATE: 03/30/2023  
 PROJECT NO.: 23-0004

REVISION	DATE
GENERAL REV.	5/3/2023

NOTES:

DocuSigned by:



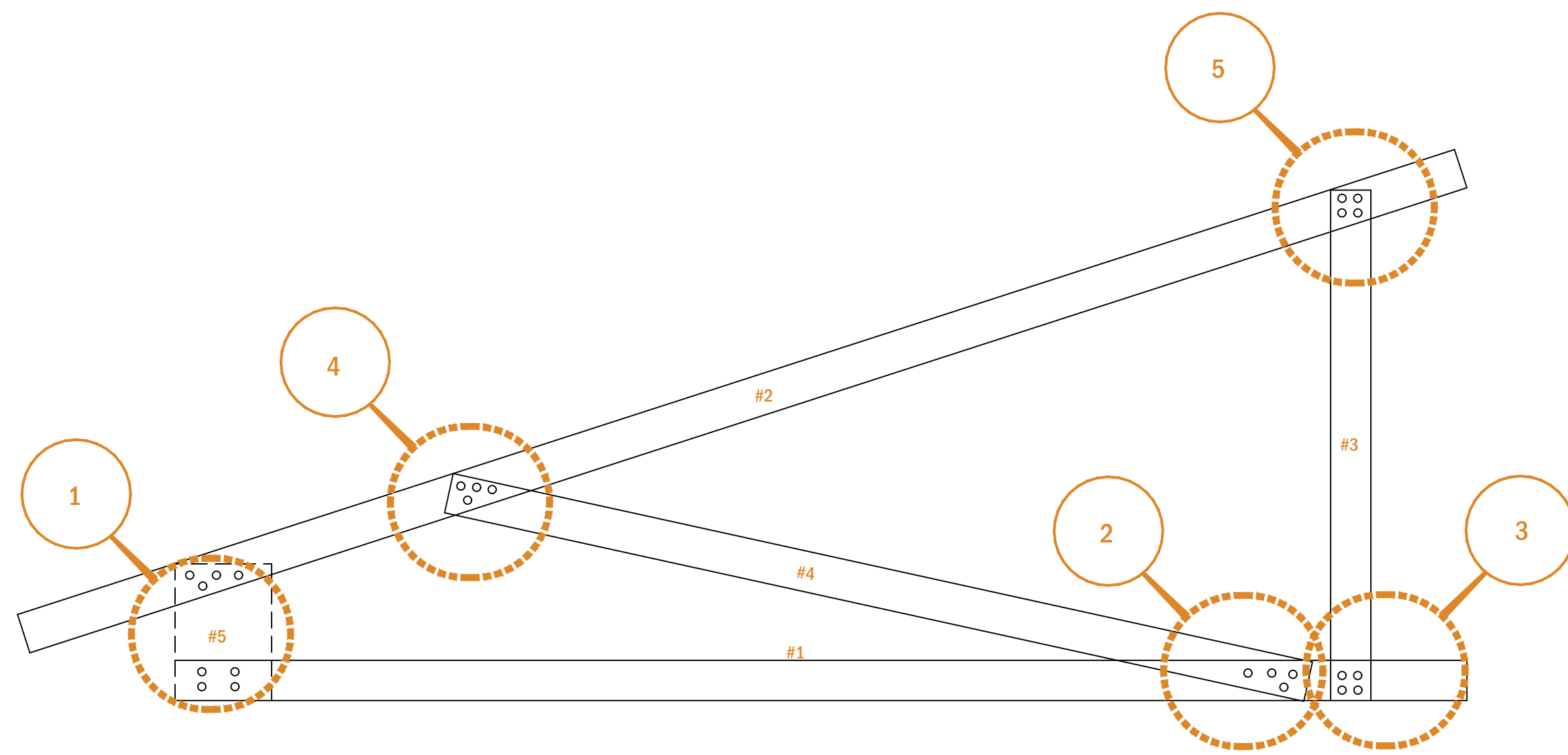
5/17/2023  
 PROFESSIONAL ENGINEER SEAL  
 STATE OF FLORIDA

**TRUSS 3 & 10**

SCALE: AS NOTED

**SD-3.0**

DRAWN BY: JM  
 CHECKED BY: PJ



**TRUSS CONNECTION KEY**

SCALE: 1-1/2" = 1'-0"

2023.03.30

PROJECT:

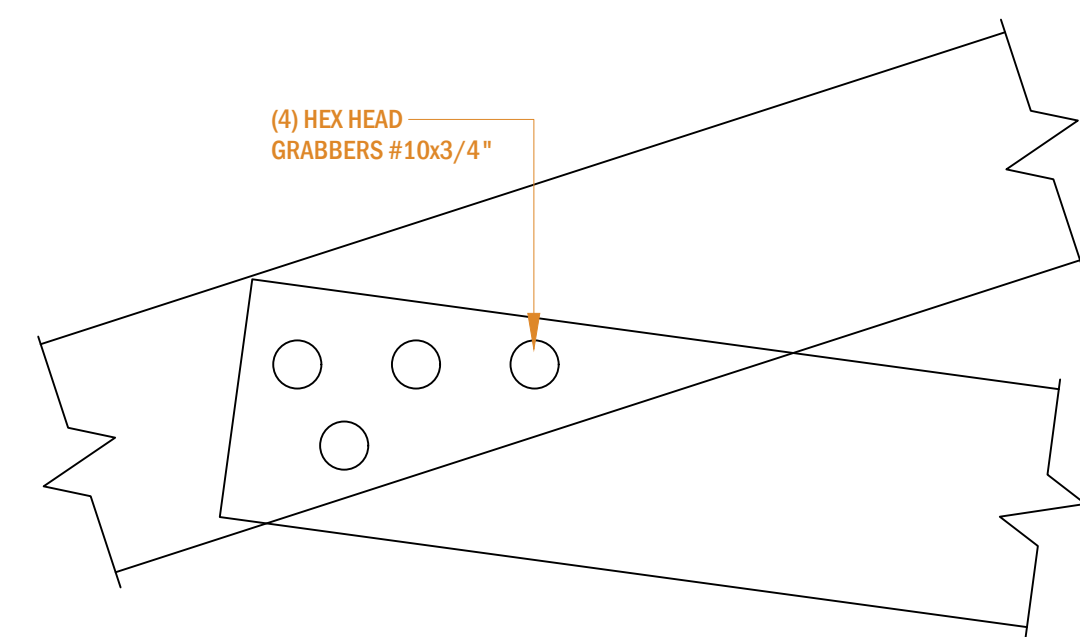
**SHOP DWGS FOR  
EXTERIOR ARCADE**

130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

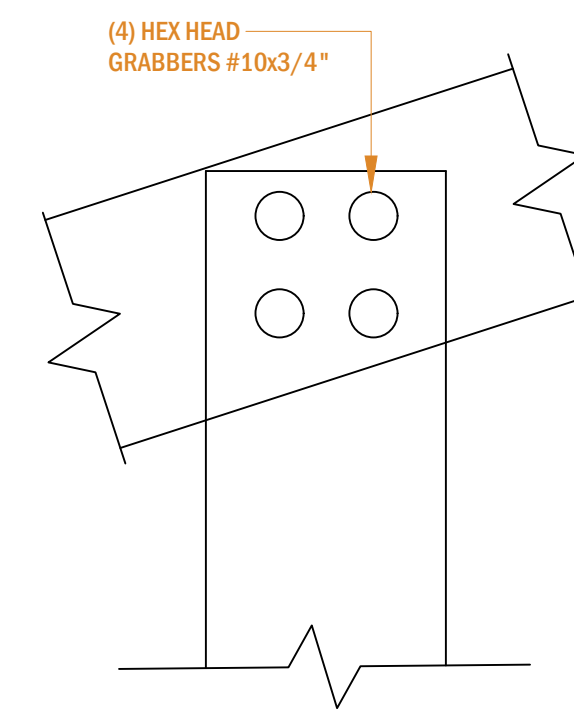
DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

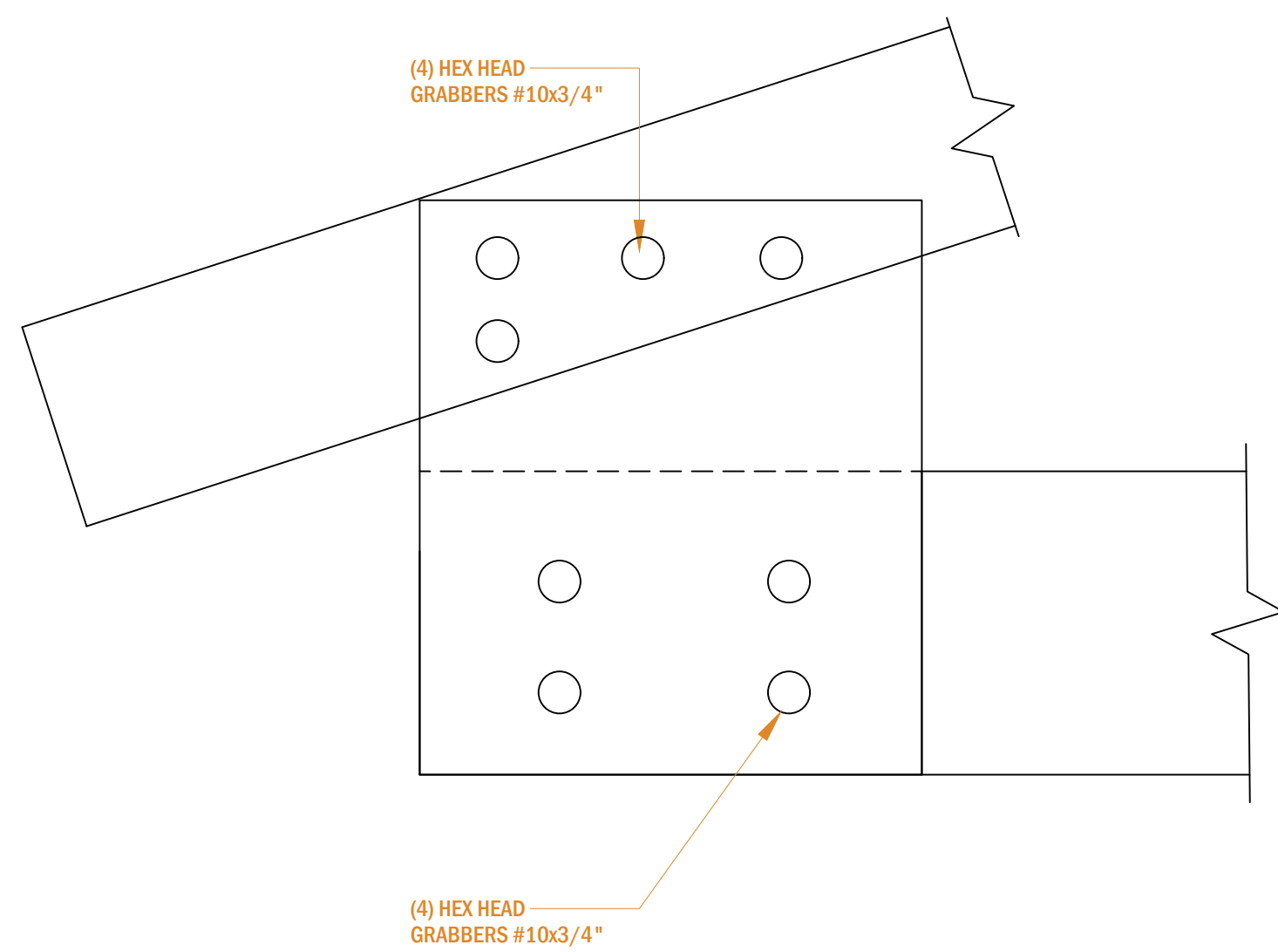
NOTES:



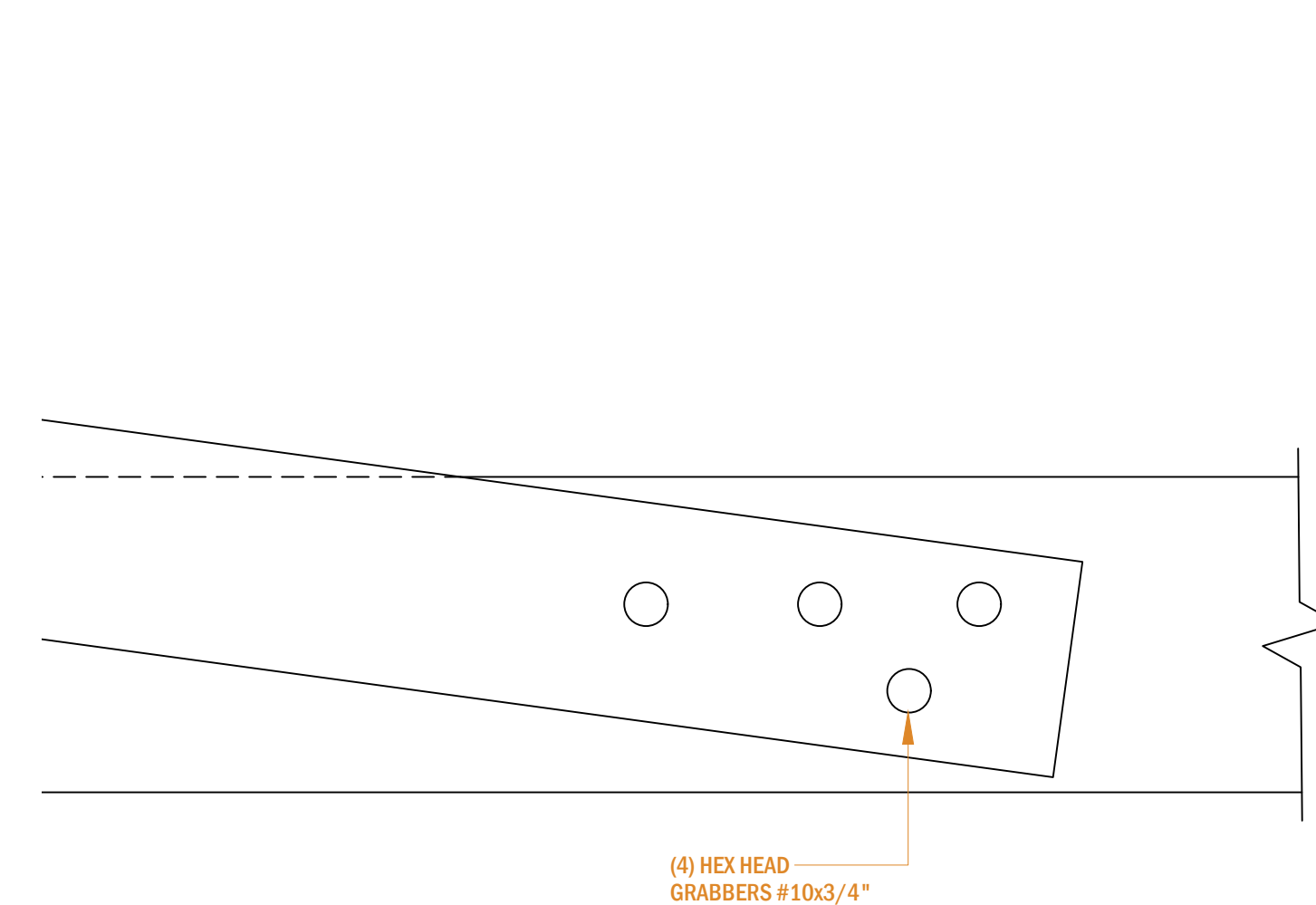
**4 TRUSS CONNECTION 4**  
SCALE: 6" = 1'-0"



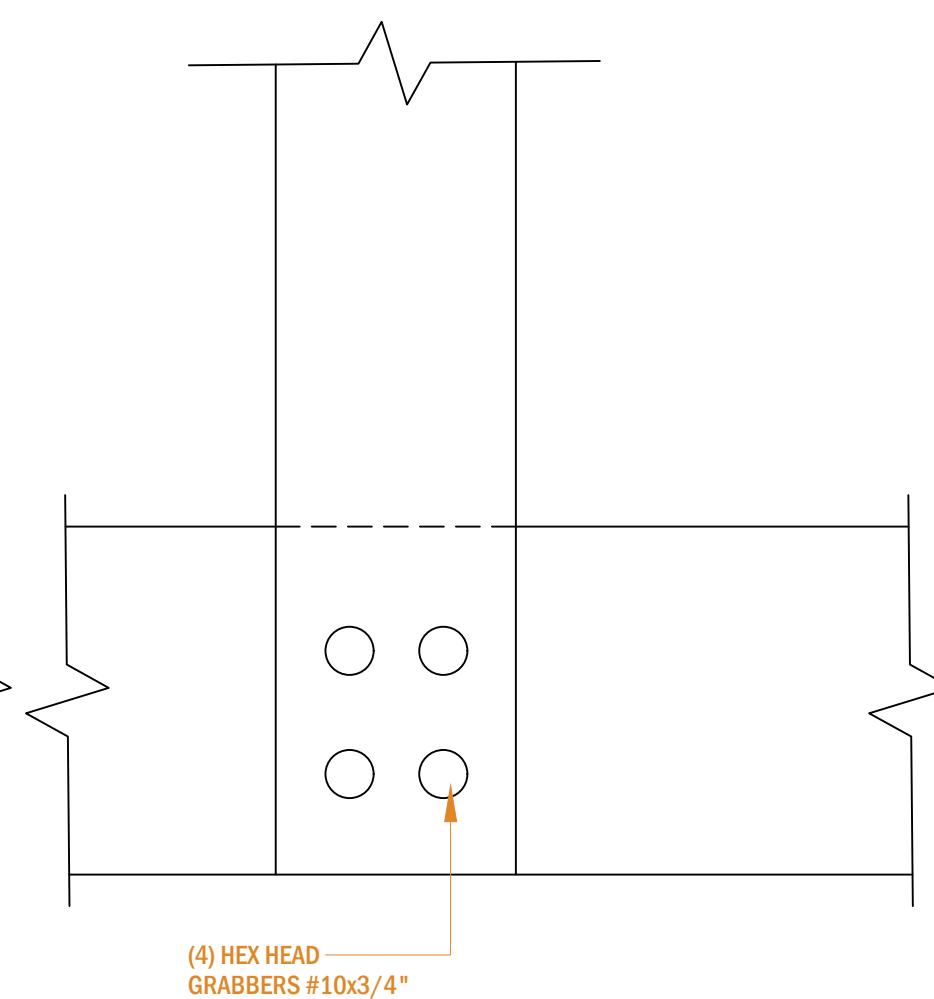
**5 TRUSS CONNECTION 5**  
SCALE: 6" = 1'-0"



**1 TRUSS CONNECTION 1**  
SCALE: 6" = 1'-0"

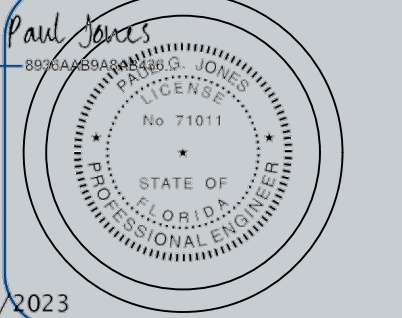


**2 TRUSS CONNECTION 2**  
SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**  
SCALE: 6" = 1'-0"

DocuSigned by:



5/17/2023  
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 3 & 10  
CONNECTIONS**

SCALE: AS NOTED

**SD-3.1**

DRAWN BY: JM  
CHECKED BY: PJ



CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	212CS118	6.44	0.62C	0.82	#10 SD	0.000	0
#2	212CS118	7.83	0.47C	0.37	#10 SD	0.000	0
#3	358CS118	2.58	0.33T	0.05	#10 SD	0.347	8
#4	212CS118	4.75	0.57T	0.34	#10 SD	0.177	8
#5	6CSJ18	0.67	0.10C	0.03	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.33		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.39		#10 SD	0.263	8
HIP RAFTER	SEE NOTES			0.39	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-212CS118	0.62C	0.11	2.78	2.68	1.38	4.81	0.89
TOP CHORD	1-212CS118	0.47T	0.13	1.57	5.91	1.38	4.71	0.46
WEB	1-358CS118	0.57T	0.00	0.13	4.63	2.83	3.72	0.04

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSSD  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

1. TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
2. NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
3. ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
4. (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
5. MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.043 in (L/2090)
HORIZONTAL	0.005 in
TOP OVERHANG	0.026 in (L/500)
VERTICAL	0.022 in (L/3544) [DEAD LOAD ONLY]
VERTICAL	0.017 in (L/4795) [LIVE LOAD ONLY]

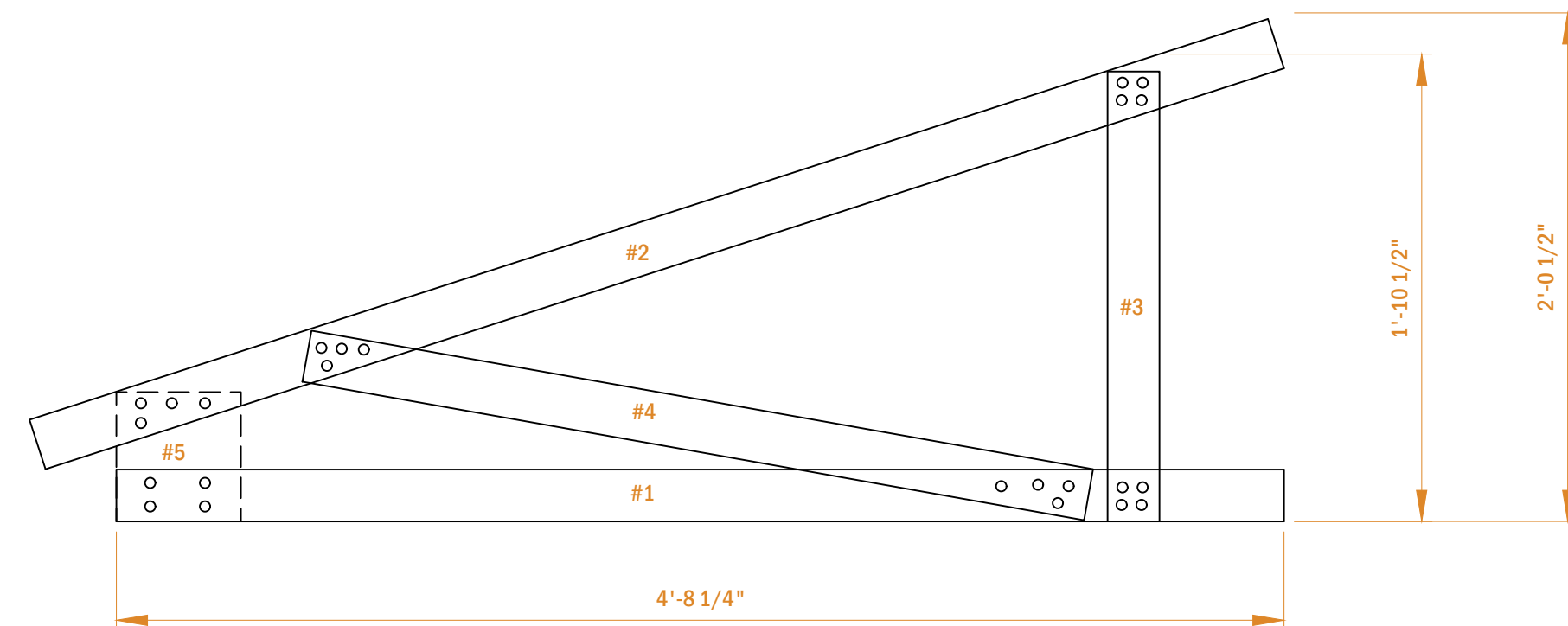
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.36 (0.33)	-0.33 (-0.73)	0.32	6.00
RIGHT	0.26 (0.26)	-0.37 (-0.79)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
[ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1 TRUSS 4 & 9**

SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

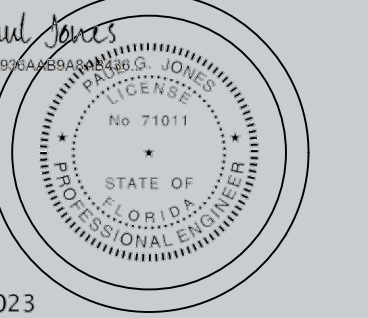
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

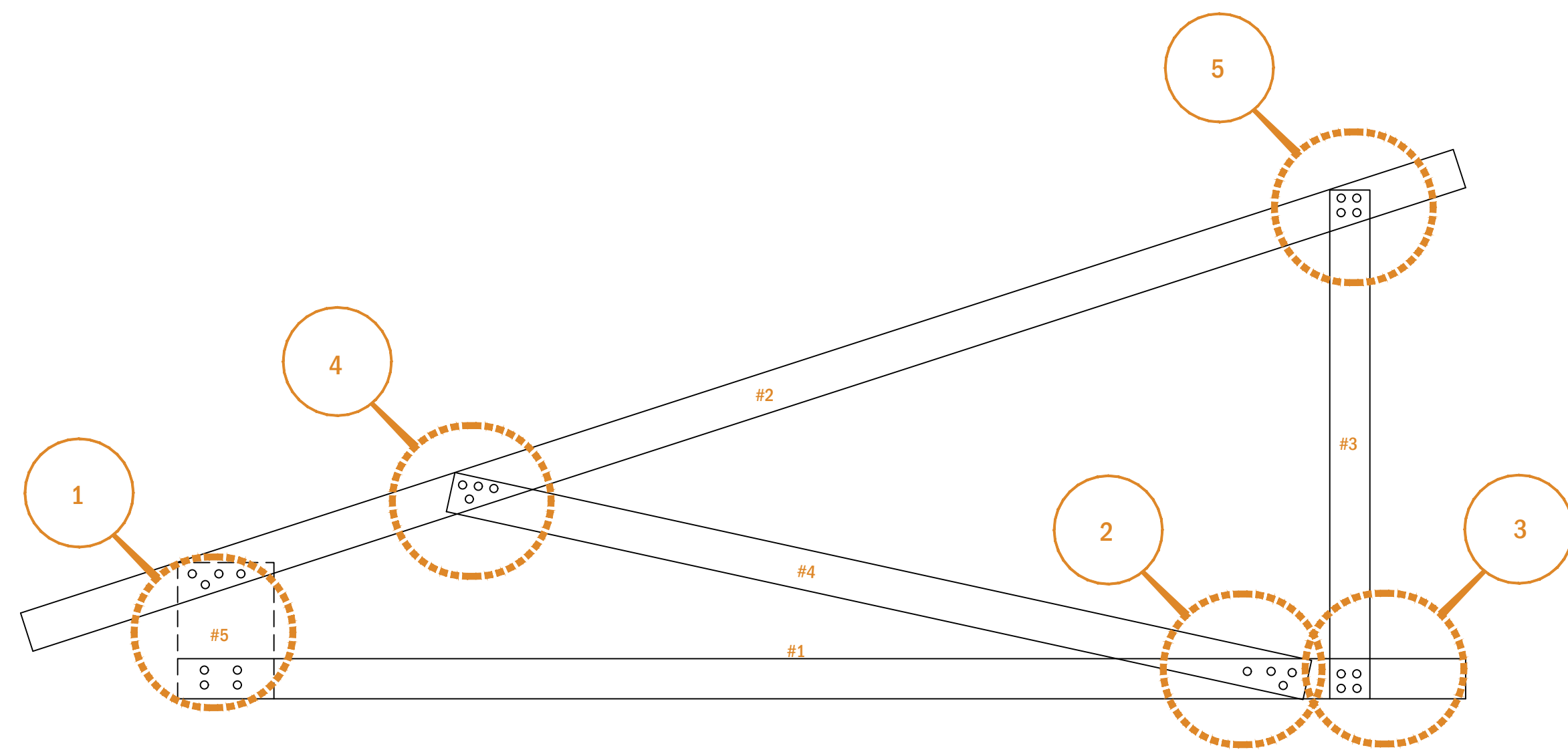
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 4 & 9**

SCALE: AS NOTED

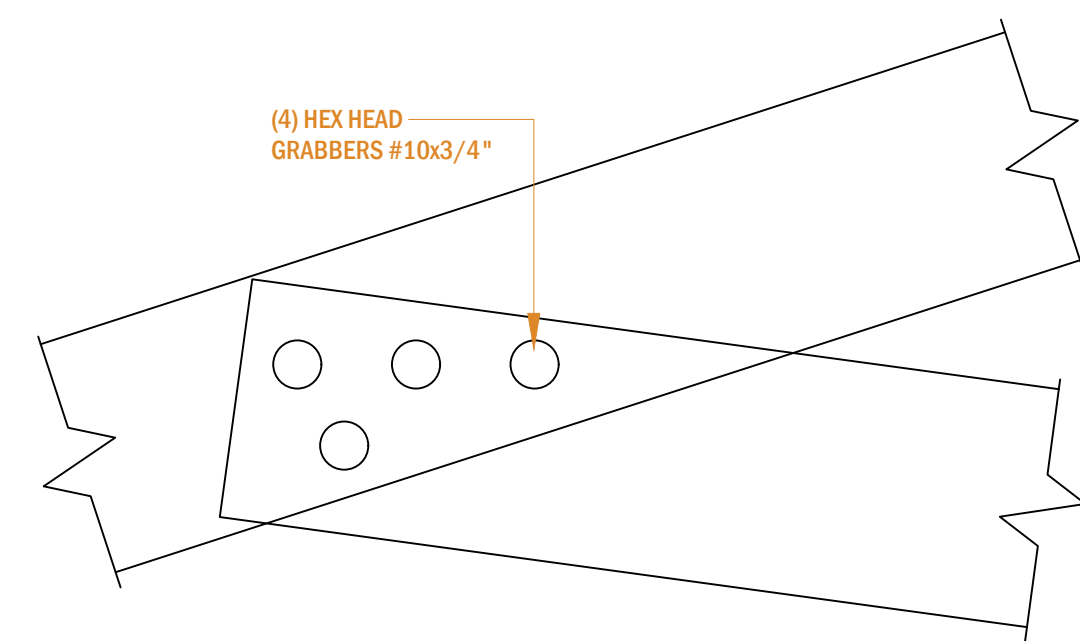
**SD-4.0**

DRAWN BY: JM  
CHECKED BY: PJ

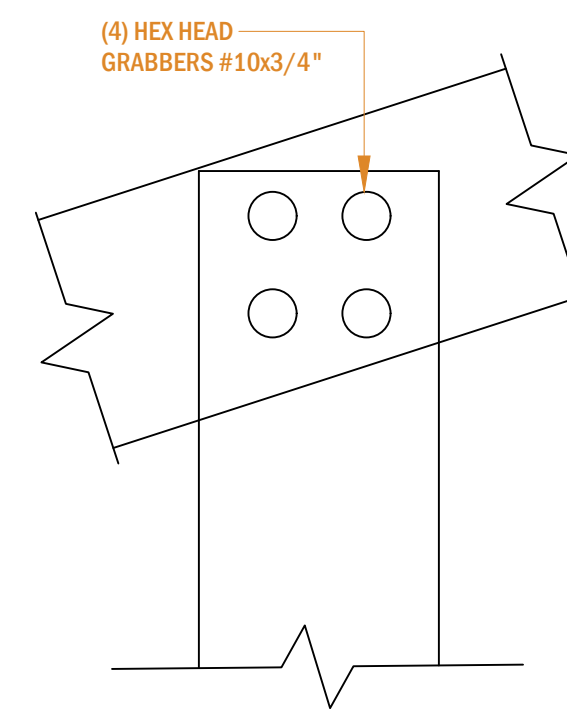


**TRUSS CONNECTION KEY**

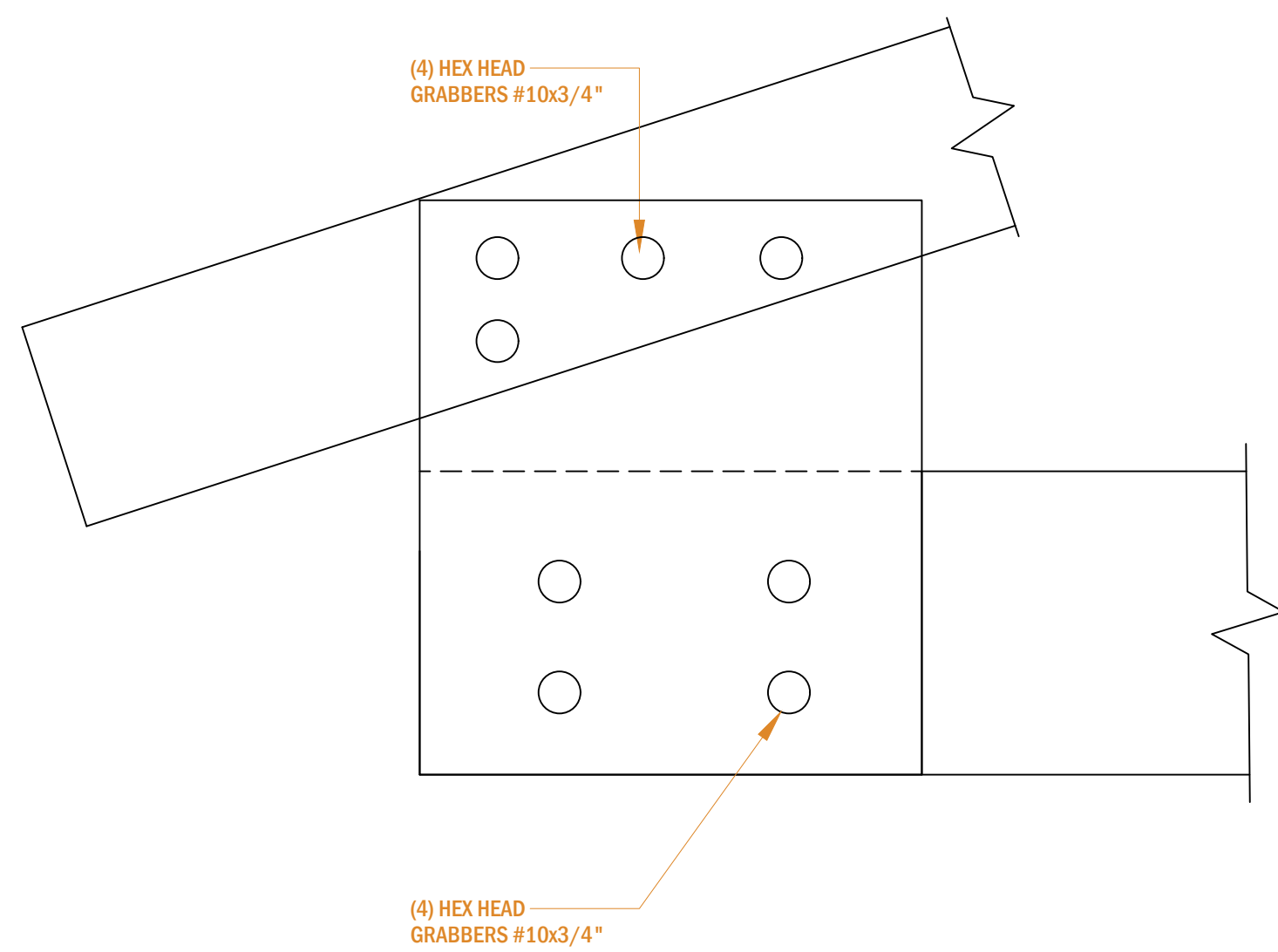
SCALE: 1-1/2" = 1'-0"



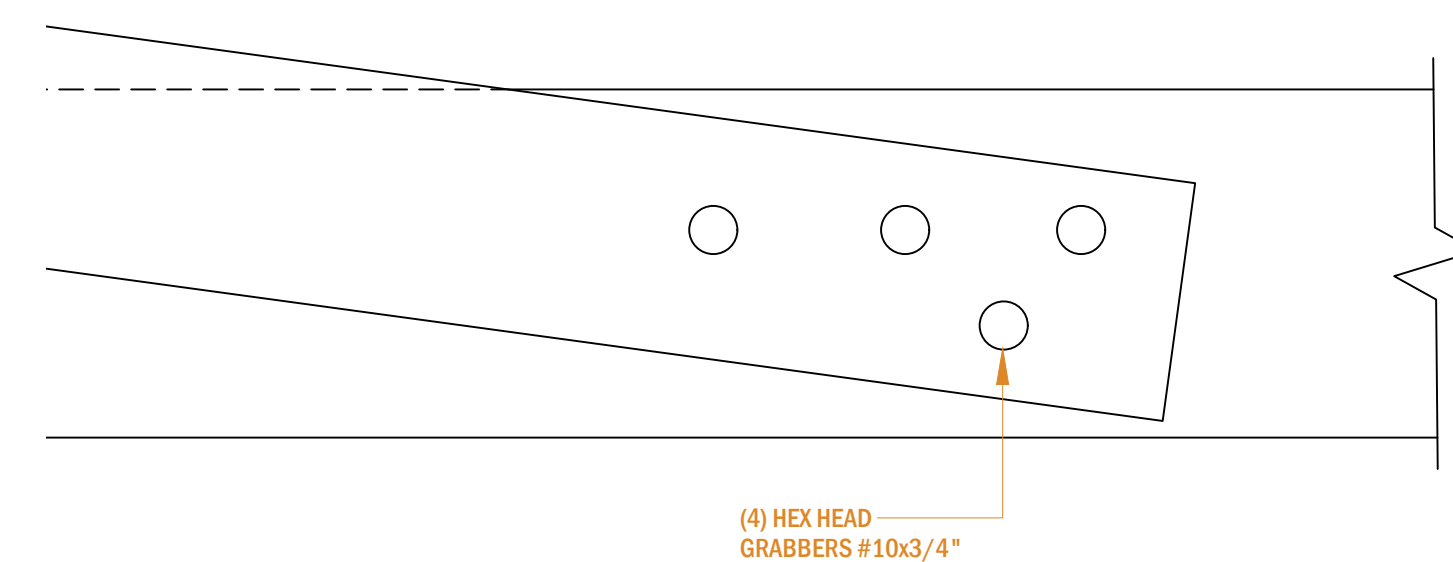
**4 TRUSS CONNECTION 4**  
SCALE: 6" = 1'-0"



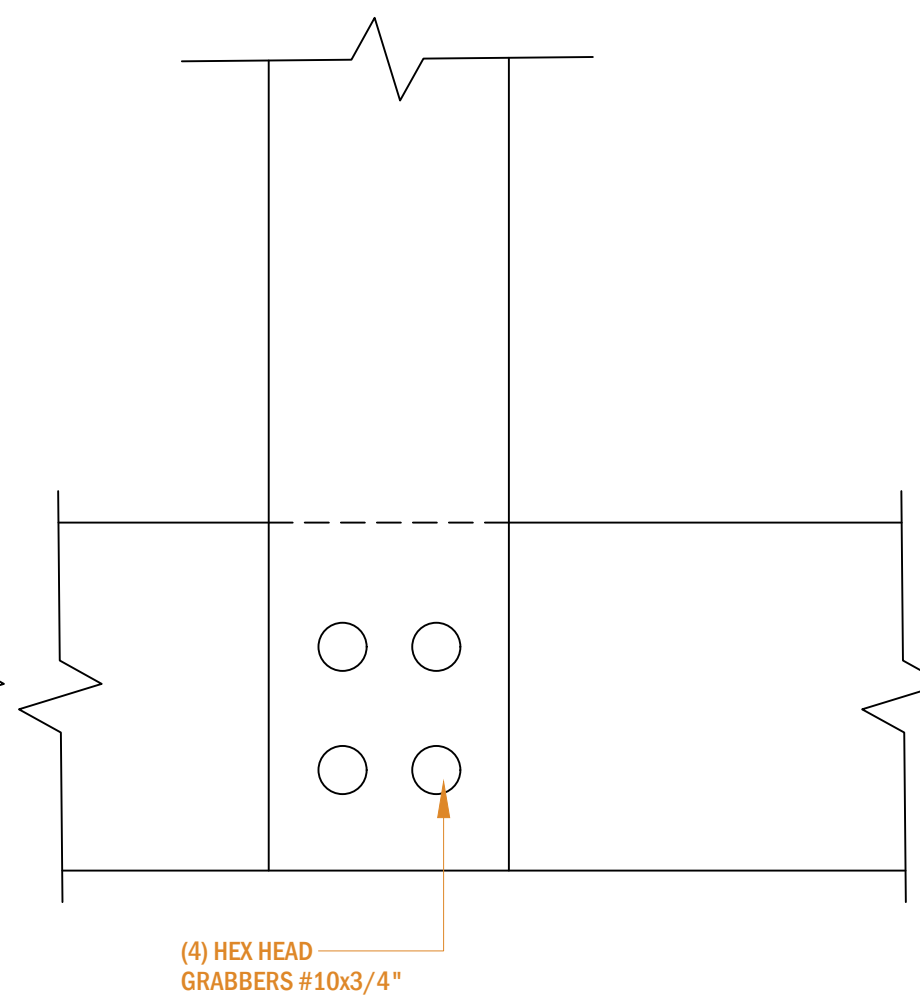
**5 TRUSS CONNECTION 5**  
SCALE: 6" = 1'-0"



**1 TRUSS CONNECTION 1**  
SCALE: 6" = 1'-0"



**2 TRUSS CONNECTION 2**  
SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**  
SCALE: 6" = 1'-0"

2023.03.30

PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

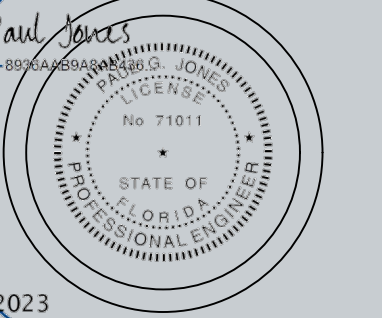
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 4 & 9  
CONNECTIONS**

SCALE: AS NOTED

**SD-4.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	212CS118	6.44	0.62C	0.82	#10 SD	0.000	0
#2	212CS118	7.83	0.47C	0.37	#10 SD	0.000	0
#3	358CS118	2.58	0.33T	0.05	#10 SD	0.347	8
#4	212CS118	4.75	0.57T	0.34	#10 SD	0.177	8
#5	6CSJ18	0.67	0.10C	0.03	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.33		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.39		#10 SD	0.263	8
HIP RAFTER	SEE NOTES			0.39	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-212CS118	0.62C	0.11	2.78	2.68	1.38	4.81	0.89
TOP CHORD	1-212CS118	0.47T	0.13	1.57	5.91	1.38	4.71	0.46
WEB	1-358CS118	0.57T	0.00	0.13	4.63	2.83	3.72	0.04

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSSD  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

1. TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
2. NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
3. ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
4. (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
5. MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.043 in (L/2090)
HORIZONTAL	0.005 in
TOP OVERHANG	0.026 in (L/500)
VERTICAL	0.022 in (L/3544) [DEAD LOAD ONLY]
VERTICAL	0.017 in (L/4795) [LIVE LOAD ONLY]

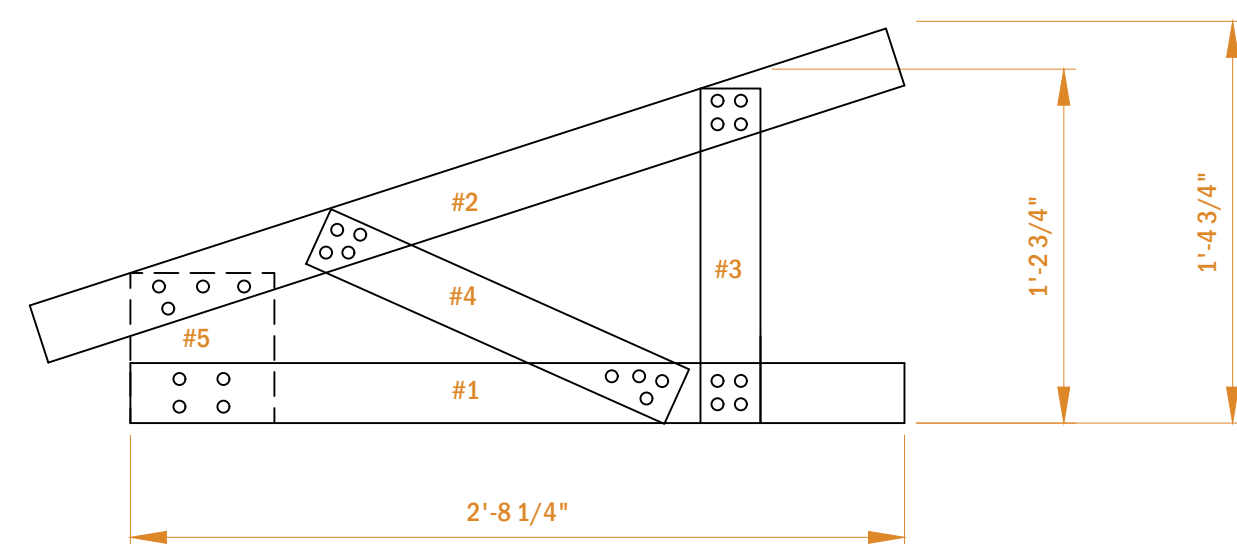
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.36 (0.33)	-0.33 [-0.73]	0.32	6.00
RIGHT	0.26 (0.26)	-0.37 [-0.79]	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
[ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1 TRUSS 5 & 8**

SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

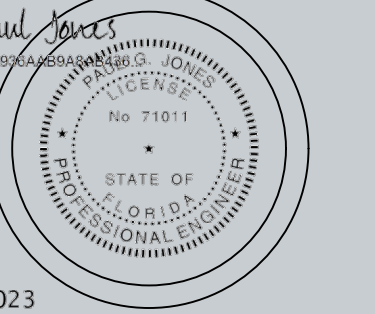
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

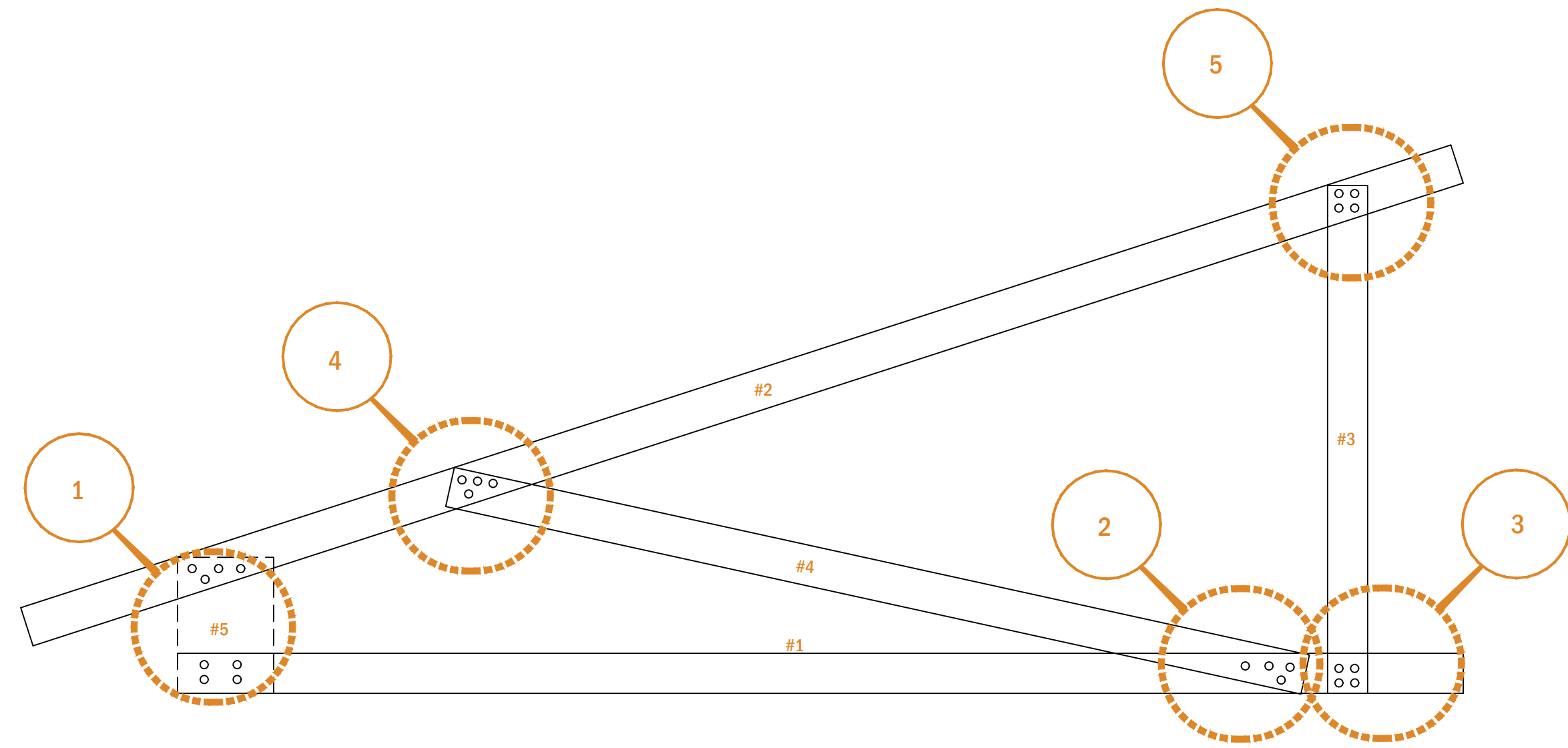
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 5 & 8**

SCALE: AS NOTED

**SD-5.0**

DRAWN BY: JM  
CHECKED BY: PJ



**TRUSS CONNECTION KEY**

SCALE: 1-1/2" = 1'-0"

2023.03.30

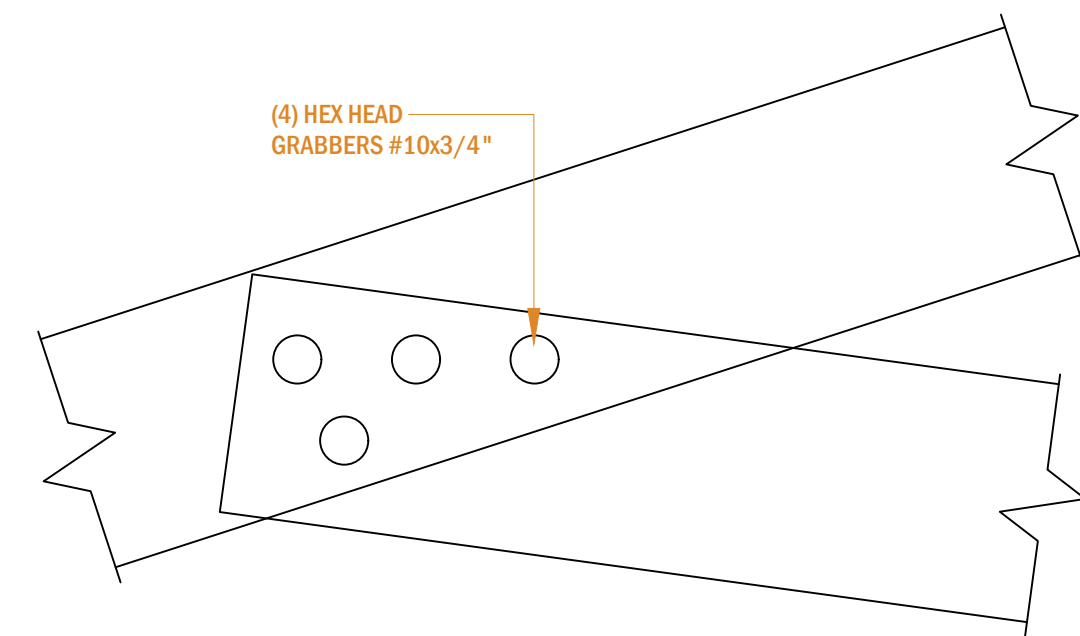
PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

130 RUBY RED PLACE FC,  
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DATE: 03/30/2023  
PROJECT NO.: 23-0004

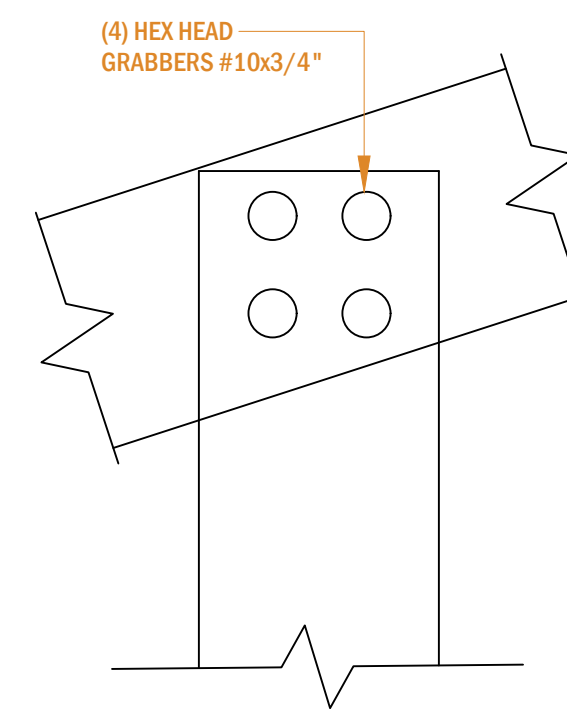
REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:



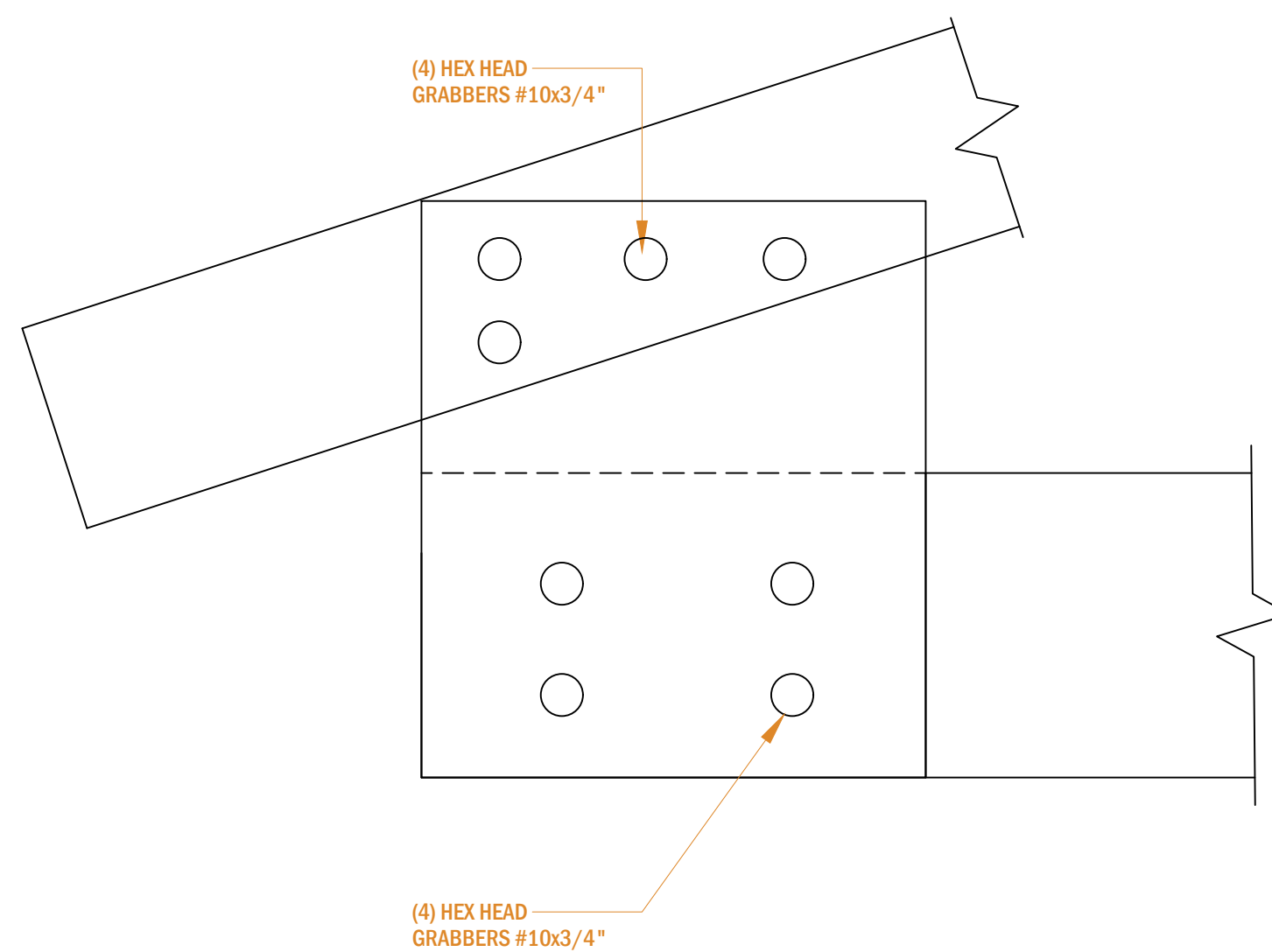
**4 TRUSS CONNECTION 4**

SCALE: 6" = 1'-0"



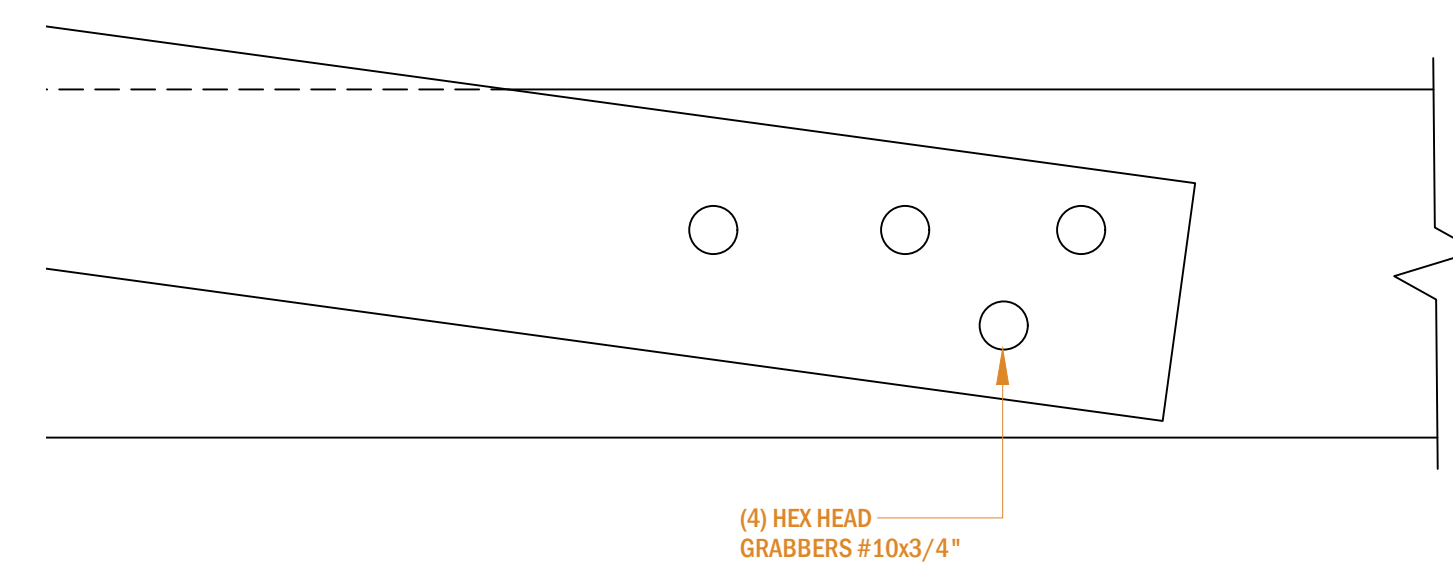
**5 TRUSS CONNECTION 5**

SCALE: 6" = 1'-0"



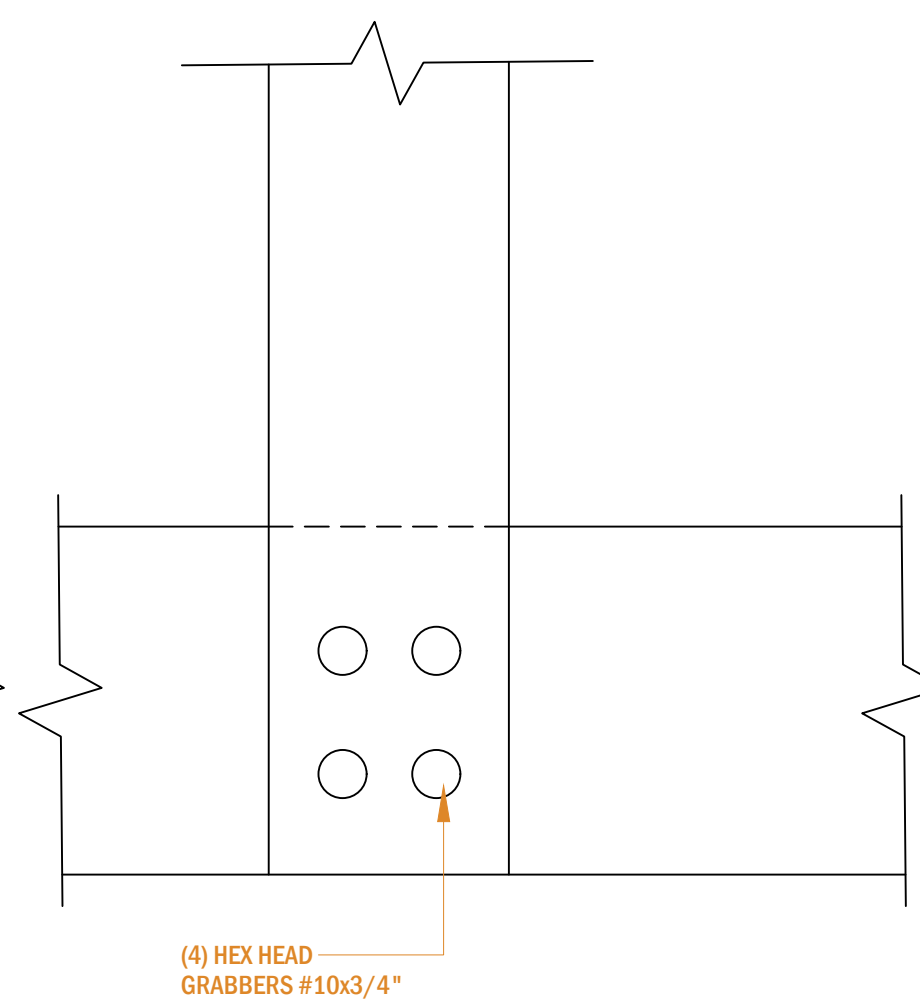
**1 TRUSS CONNECTION 1**

SCALE: 6" = 1'-0"



**2 TRUSS CONNECTION 2**

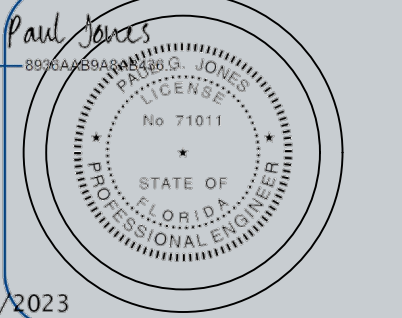
SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**

SCALE: 6" = 1'-0"

DocuSigned by:



5/17/2023

PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 5 & 8  
CONNECTIONS**

SCALE: AS NOTED

**SD-5.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	358CS118	6.44	0.62C	0.82	#10 SD	0.000	0
#2	358CS118	7.83	0.47C	0.37	#10 SD	0.000	0
#3	358CS118	2.58	0.33T	0.05	#10 SD	0.347	8
#4	6CSJ18	4.75	0.57T	0.34	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.33		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.39		#10 SD	0.263	8
HIP RAFTER	SEE NOTES			0.39	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-358CS118	0.62C	0.11	2.78	2.68	1.38	4.81	0.89
TOP CHORD	1-358CS118	0.47T	0.13	1.57	5.91	1.38	4.71	0.46
WEB	1-358CS118	0.57T	0.00	0.13	4.63	2.83	3.72	0.04

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSSD  
DESIGN METHOD - (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

1. TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
2. NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
3. ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
4. (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
5. MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.043 in (L/2090)
HORIZONTAL	0.005 in
TOP OVERHANG	0.026 in (L/500)
VERTICAL	0.022 in (L/3544) [DEAD LOAD ONLY]
VERTICAL	0.017 in (L/4795) [LIVE LOAD ONLY]

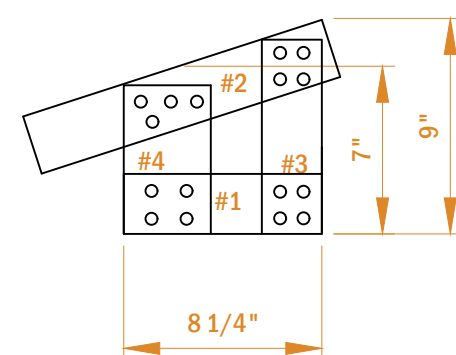
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.36 (0.33)	-0.33 [-0.73]	0.32	6.00
RIGHT	0.26 (0.26)	-0.37 [-0.79]	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
[ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



# 1 TRUSS 6 & 7

SCALE: 1-1/2" = 1'-0"



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PHILADELPHIA, PA 19103

2023.03.30

PROJECT:

## SHOP DWGS FOR EXTERIOR ARCADE

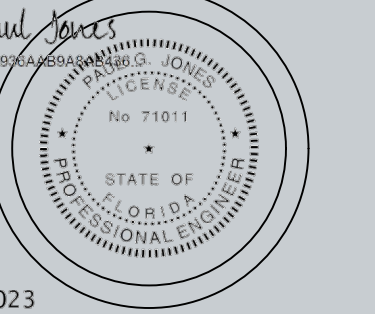
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

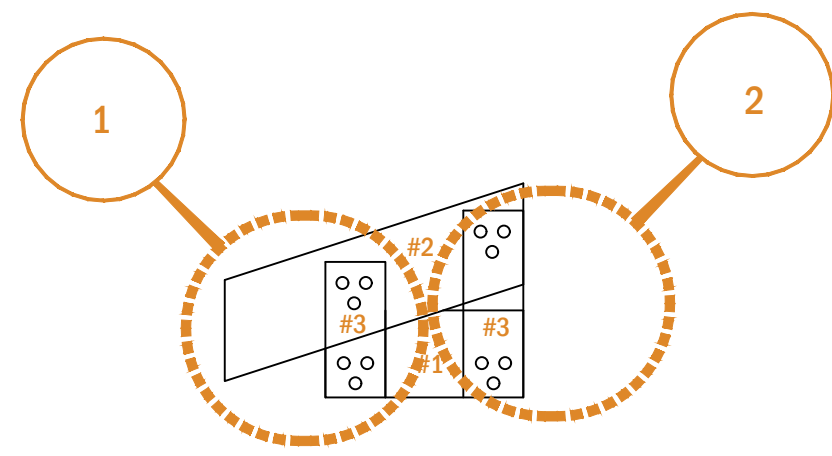
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

## TRUSS 6 & 7

SCALE: AS NOTED

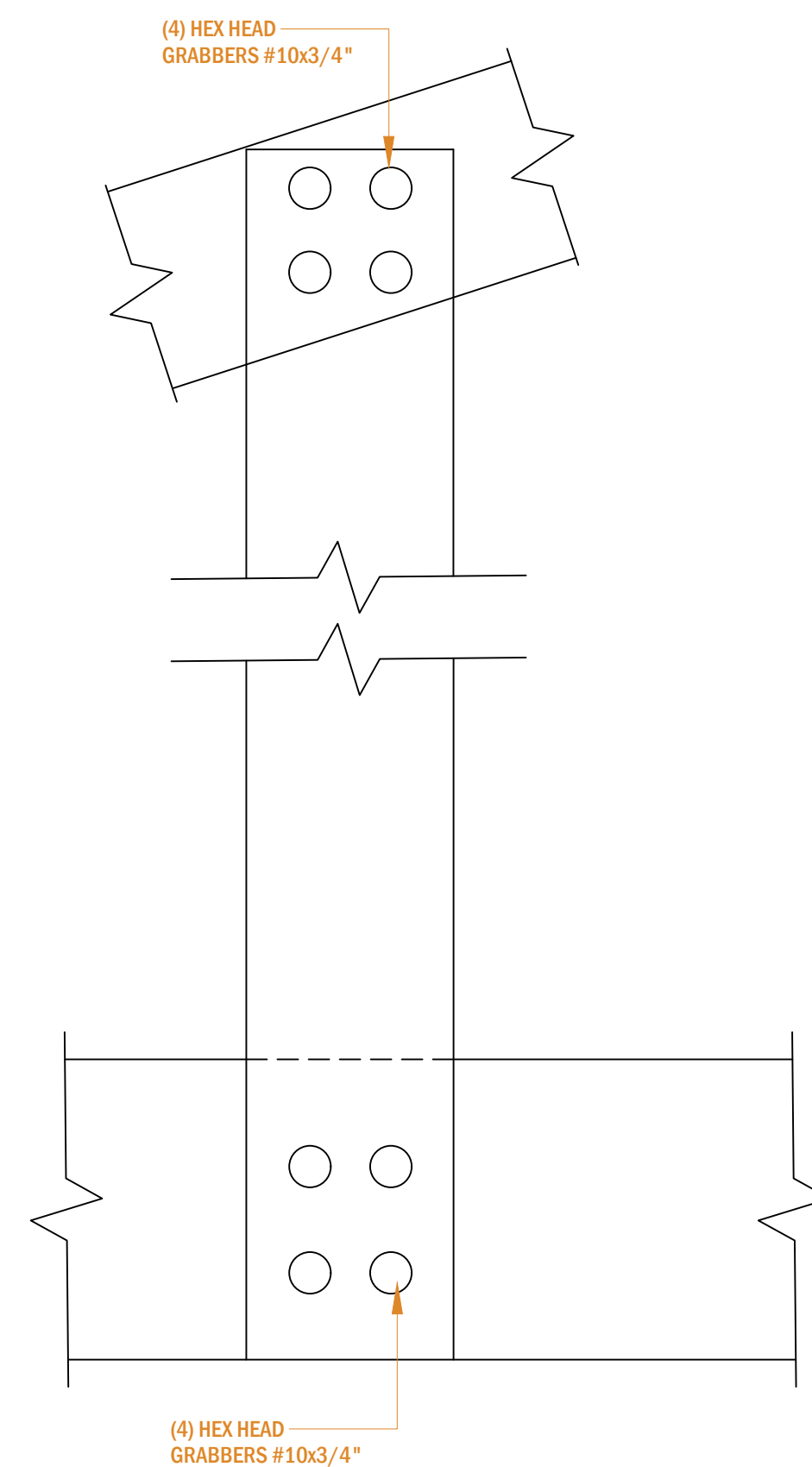
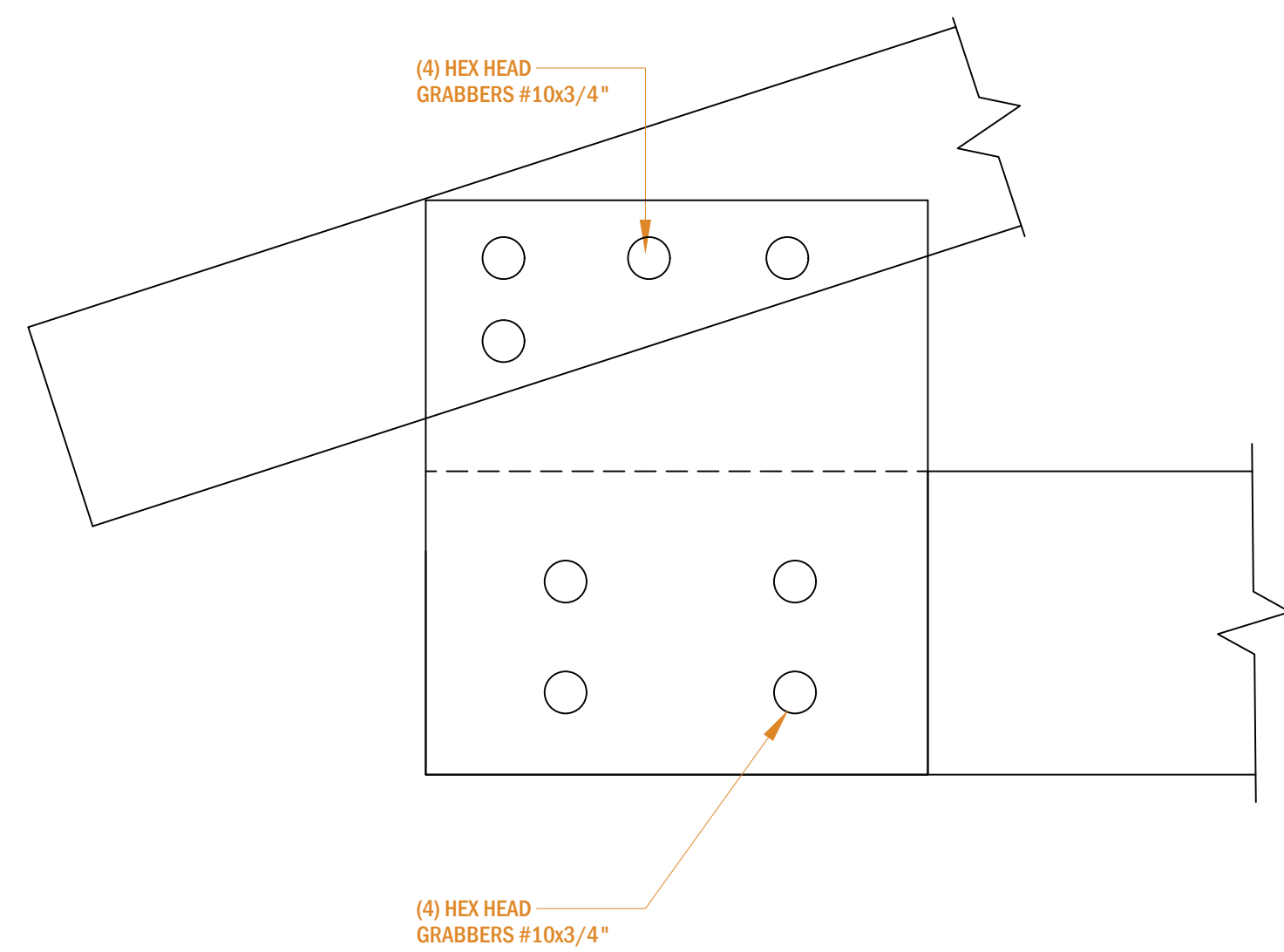
# SD-6.0

DRAWN BY: JM  
CHECKED BY: PJ



### TRUSS CONNECTION KEY

SCALE: 1-1/2" = 1'-0"



**1** TRUSS CONNECTION 1  
SCALE: 6" = 1'-0"

**2** TRUSS CONNECTION 2  
SCALE: 6" = 1'-0"

2023.03.30

PROJECT:  
**SHOP DWGS FOR EXTERIOR ARCADE**

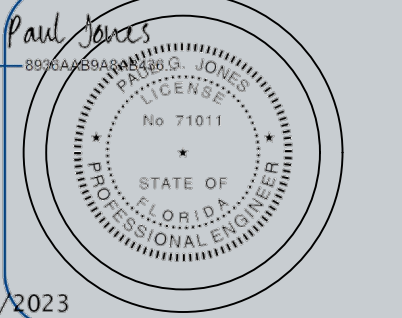
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION	DATE
GENERAL REV.	5/3/2023

NOTES:

DocuSigned by:



5/17/2023

PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 6 & 7 CONNECTIONS**

SCALE: AS NOTED

# SD-6.1

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	6CSJ18	14.75	2.87C	0.93	#10 SD	0.000	0
#2	358CSJ18	15.83	1.25C	0.76	#10 SD	0.000	0
#3	358CSJ18	5.21	0.60T	0.93	#10 SD	0.534	8
#4	358CSJ18	5.00	0.03T	0.03	#10 SD	0.177	8
#5	358CSJ18	3.92	0.54C	0.39	#10 SD	0.177	8
#6	358CSJ18	4.58	0.86C	0.22	#10 SD	0.177	8
#7	358CSJ18	2.42	1.39T	0.79	#10 SD	0.177	8
#8	358CSJ18	3.75	0.86C	0.22	#10 SD	0.177	8
#9	358CSJ18	1.17	1.39T	0.79	#10 SD	0.177	8
#10	358CSJ18	0.50	1.39T	0.79	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
TRUSS CHORD	SEE NOTES	1	0.86		#10 SD	0.522	8
STEEL STUD	SEE NOTES			1.03	#10 SD	0.522	8
TRUSS CHORD	SEE NOTES	2	1.83		#10 SD	0.522	8
TRUSS GIRDER	SEE NOTES			1.83	#10 SD	0.522	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			RATIO
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	
BOTTOM CHORD	1-6CSJ18	2.87C	0.09	1.63	3.45	4.48	16.39	1.00
TOP CHORD	1-358CSJ18	1.25T	1.90	4.35	12.45	3.21	13.97	0.70
WEB	1-358CSJ18	0.04T	0.00	3.67	16.57	2.69	28.01	0.91

TRUSS DESIGN CODE: AISI S214-07  
 ASCE 7-16: PASSED  
 DESIGN METHOD - (ASD)  
 COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.

MAXIMUM DEFLECTIONS

VERTICAL	0.142 in (L/1284)
HORIZONTAL	0.031 in
TOP OVERHANG	0.021 in (L/625)
VERTICAL	0.042 in (L/4399) [DEAD LOAD ONLY]
VERTICAL	0.067 in (L/2837) [LIVE LOAD ONLY]

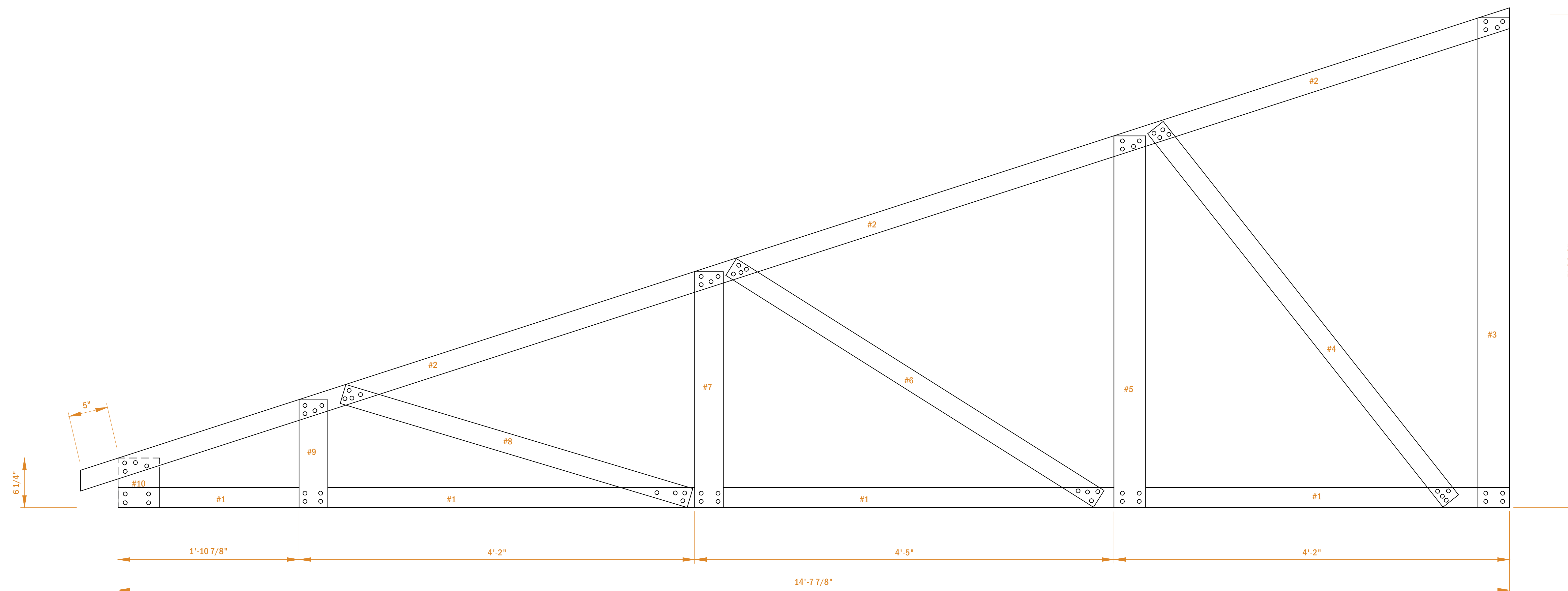
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.73 (0.73)	-1.03 [-2.02]	0.04	9.53
RIGHT	1.32 (1.32)	-1.83 [-3.64]	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

( ) DENOTES 'DEAD-LIVE ONLY'  
 [ ] DENOTES 'WIND ONLY' UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
 PLATE STYLE : OUT-OF-PLANE  
 EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
 BEARING : 9.523 in  
 SPACING : 2.00 ft  
 DEAD LOAD : 10.00 PSF (TOP CHORD)  
 DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
 LIVE LOAD : 20.00 PSF (TOP CHORD)  
 LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
 SNOW LOAD : 0.00 PSF (GROUND) [Ct=1.00]  
 WIND LOAD : 35.69 PSF (DESIGN)  
 WIND SPEED : 139 MPH (EXPOSURE C)  
 OPEN CATEGORY : E  
 TOPOGRAPHY (Kz) : 1  
 BUILDING CATEGORY : (2) GENERAL  
 DELETE WIND LOAD : RIGHT END  
 SEISMIC COEFFICIENT: 0.0



**1** TYP. HIP TRUSS  
 SCALE: 1-1/2" = 1'-0"



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2023.03.30

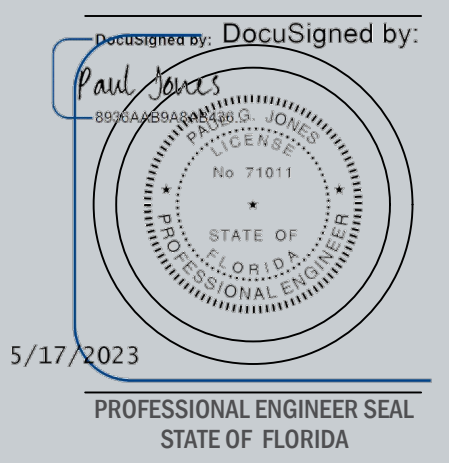
PROJECT:  
**SHOP DWGS FOR EXTERIOR ARCADE**

130 RUBY RED PLACE FC,  
 WINTER GARDEN, FL 34787

DATE: 03/30/2023  
 PROJECT NO.: 23-0004

REVISION DATE  
 GENERAL REV. 5/3/2023

NOTES:



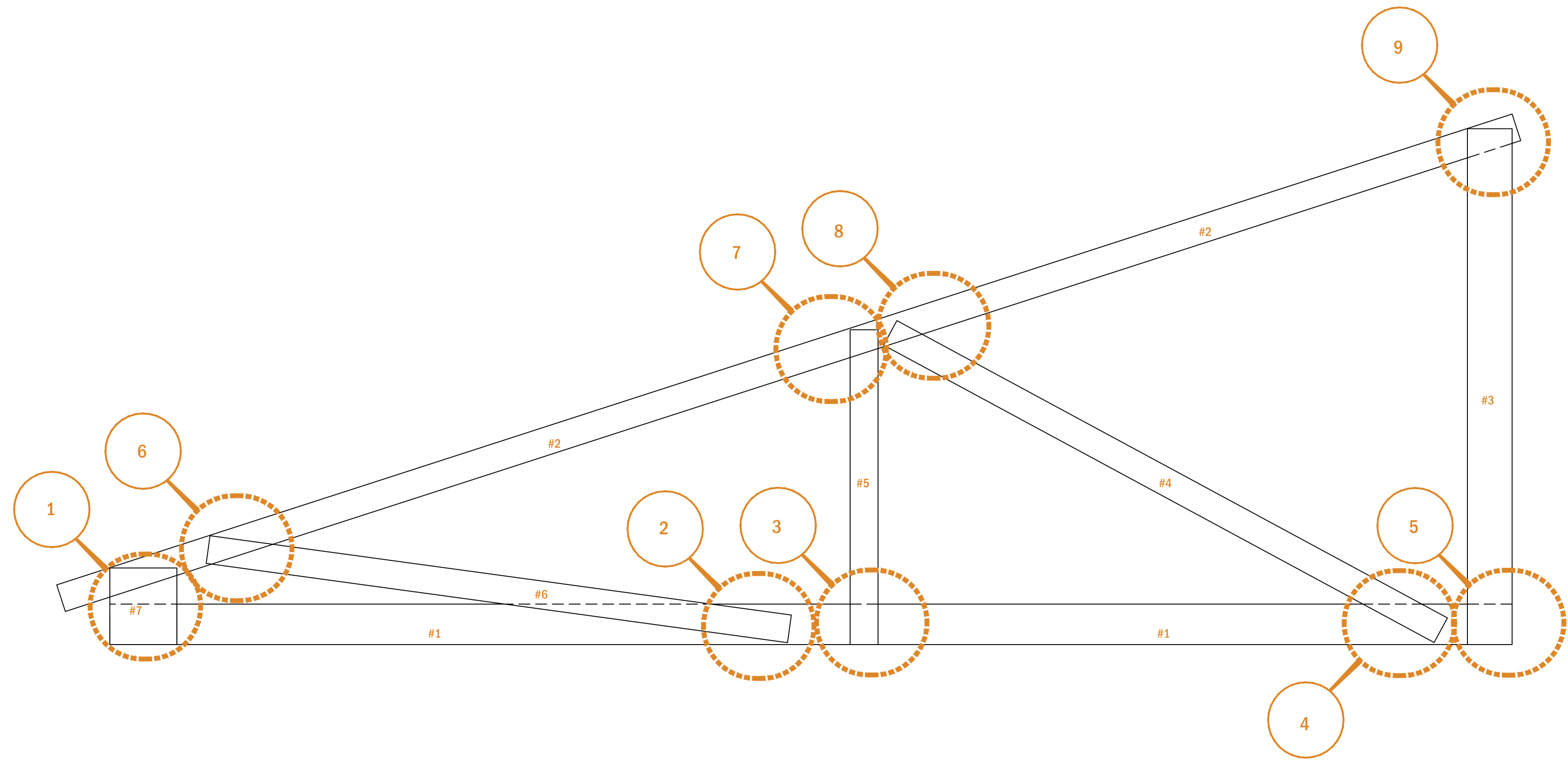
**HIP TRUSS**

SCALE: AS NOTED

**SD-7.0**

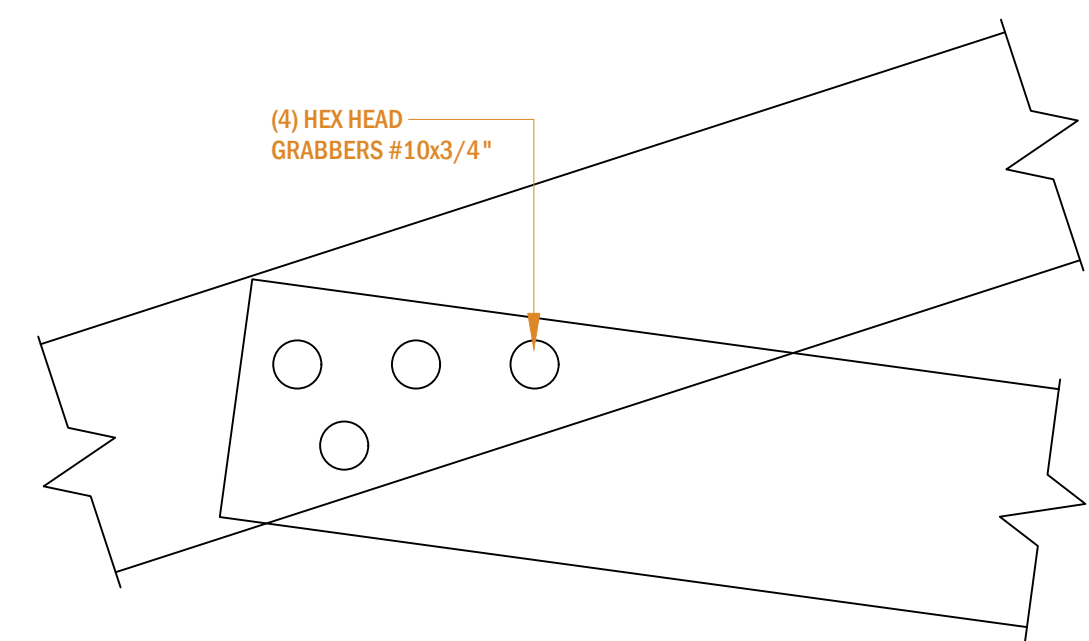
DRAWN BY: JM  
 CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	358CS118	10.46	3.15C	1.00	#10 SD	0.000	0
#2	358CS118	11.42	1.49C	0.70	#10 SD	0.000	0
#3	358CS118	3.83	0.80T	0.91	#10 SD	0.534	5
#4	358CS118	4.66	0.05T	0.03	#10 SD	0.177	4
#5	358CS118	2.33	0.64C	0.32	#10 SD	0.177	4
#6	358CS118	4.33	0.70C	0.29	#10 SD	0.177	4
#7	358CS118	0.53	1.33T	0.85	#10 SD	0.177	8



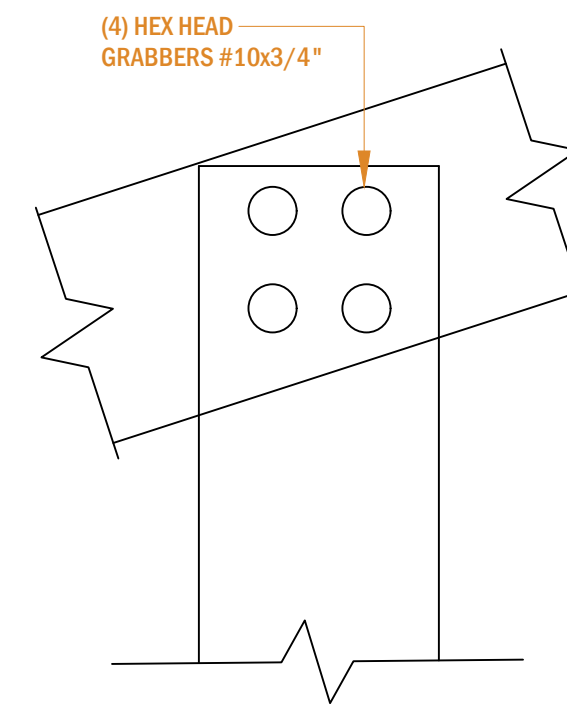
### TRUSS CONNECTION KEY

SCALE: 1-1/2" = 1'-0"



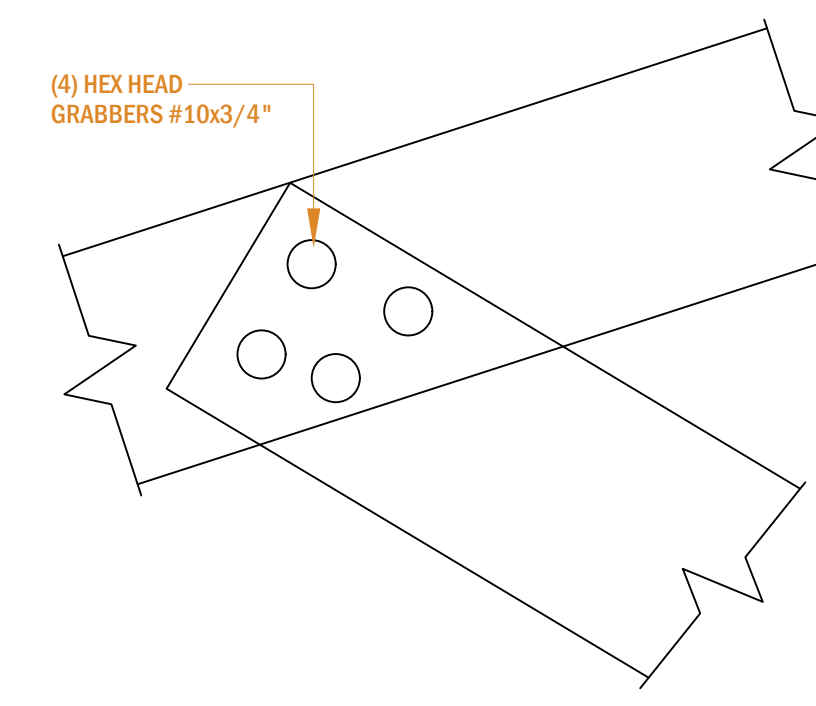
**6 TRUSS CONNECTION 6**

SCALE: 6" = 1'-0"



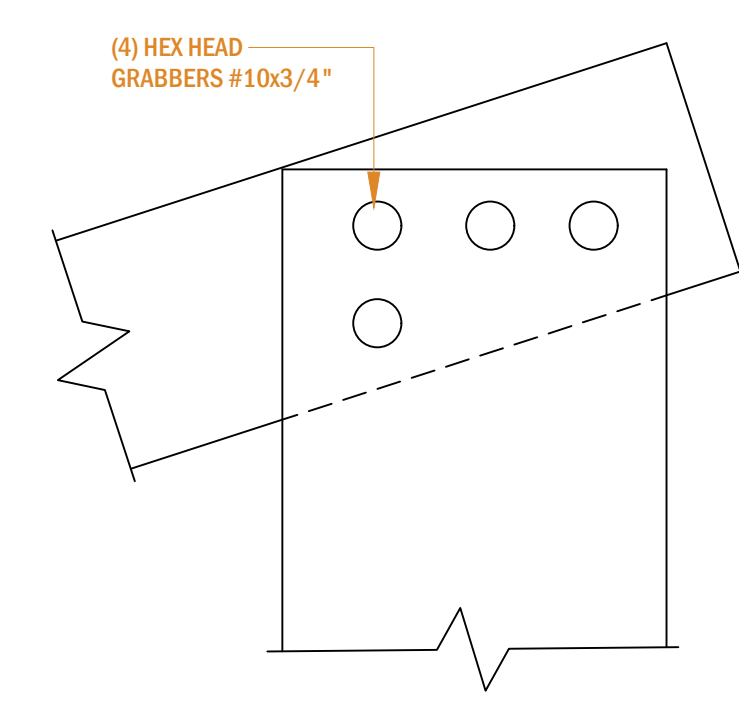
**7 TRUSS CONNECTION 7**

SCALE: 6" = 1'-0"



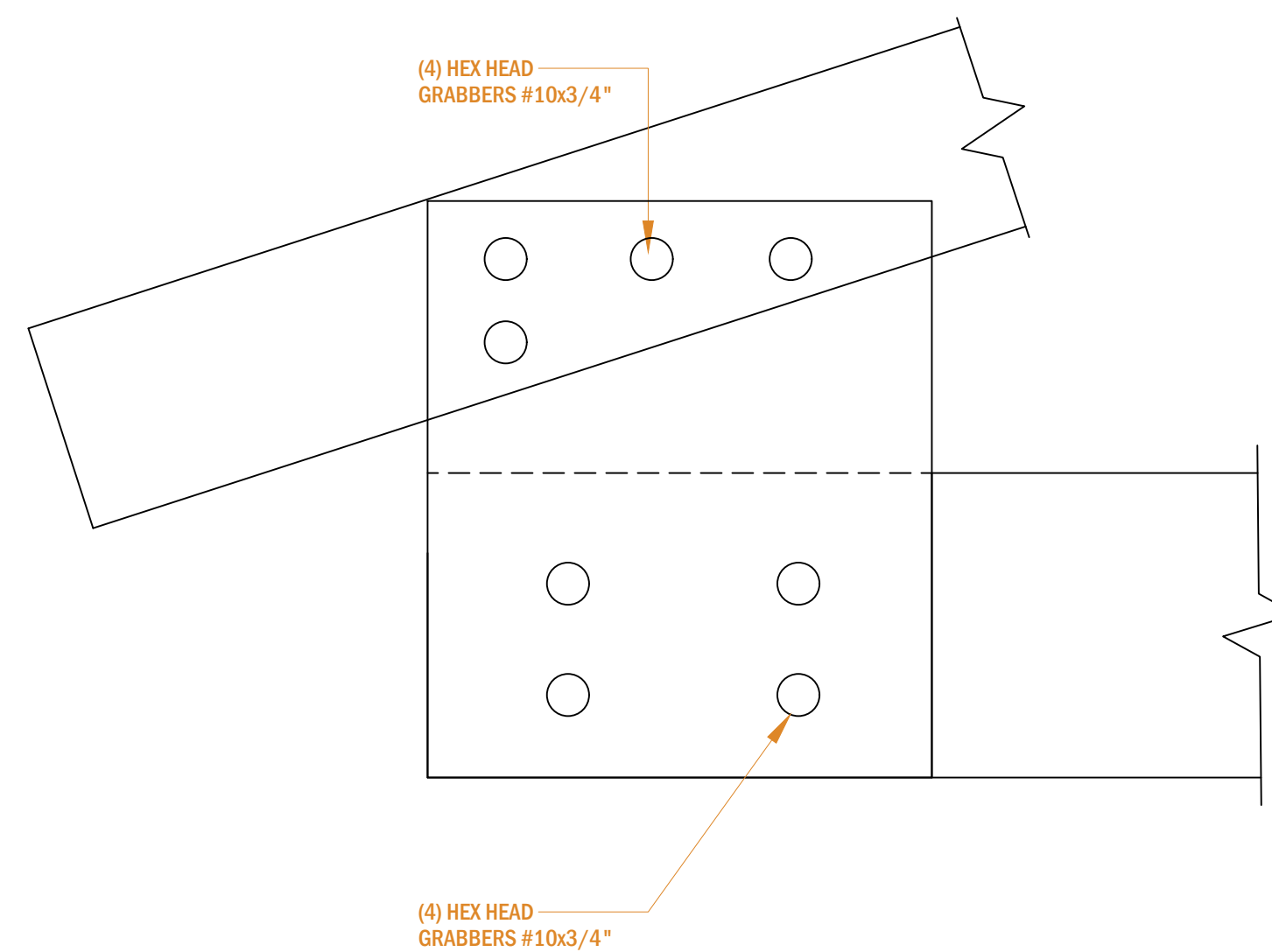
**8 TRUSS CONNECTION 8**

SCALE: 6" = 1'-0"



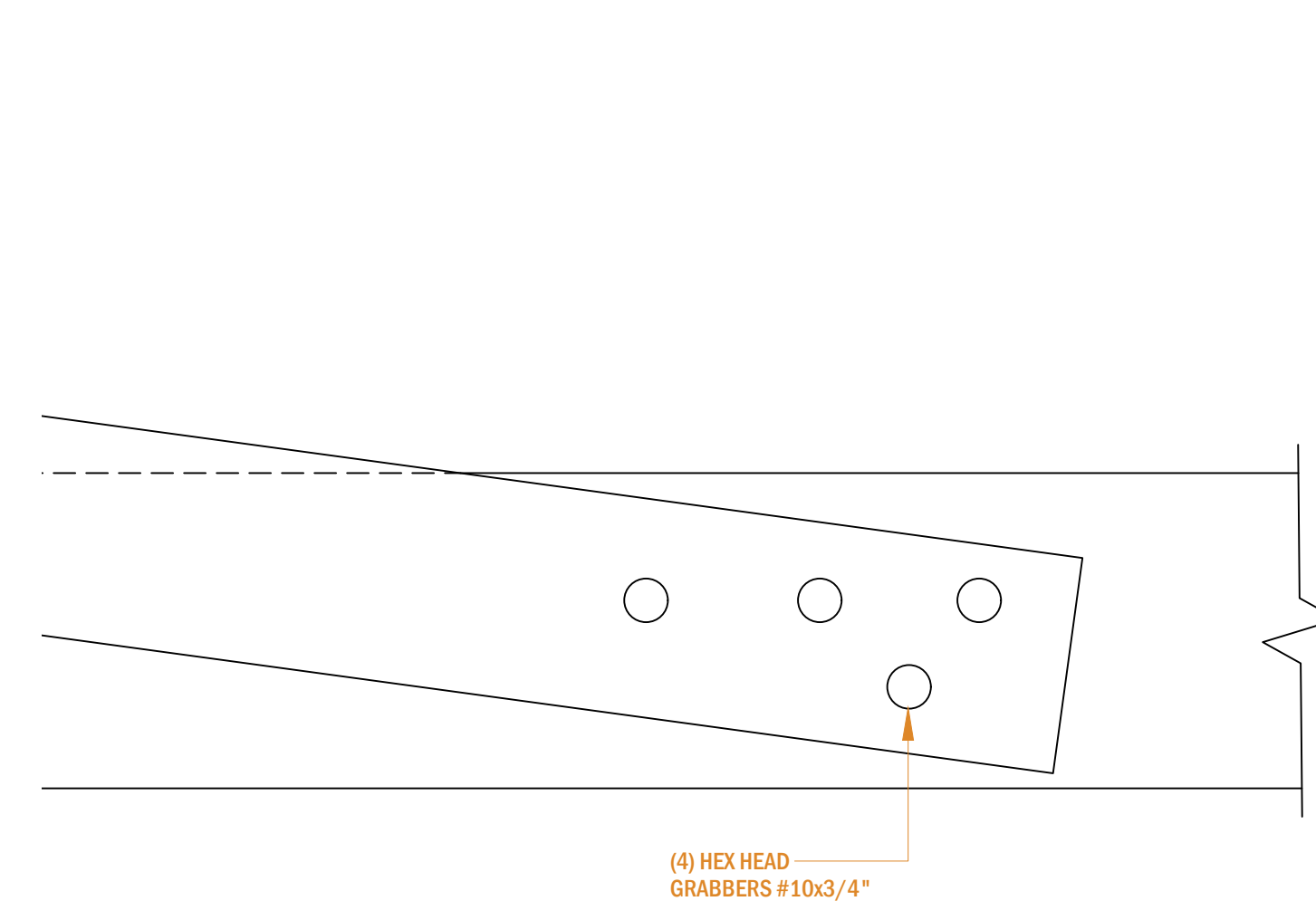
**9 TRUSS CONNECTION 8**

SCALE: 6" = 1'-0"



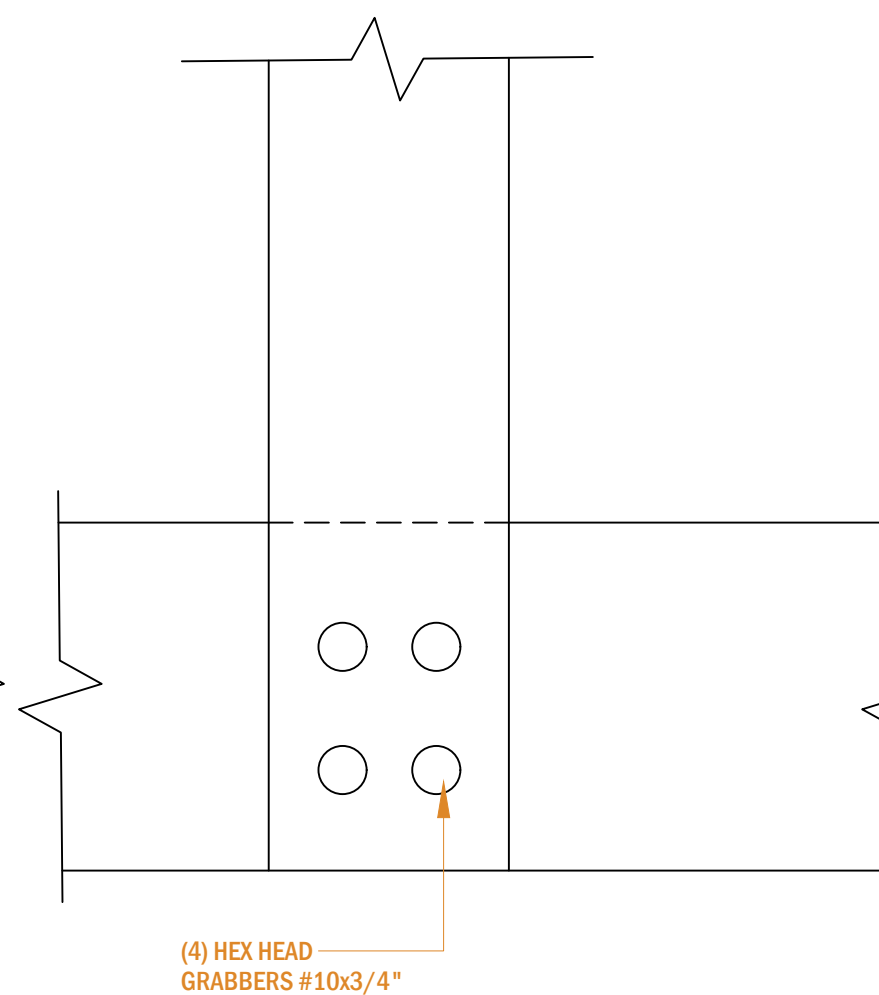
**1 TRUSS CONNECTION 1**

SCALE: 6" = 1'-0"



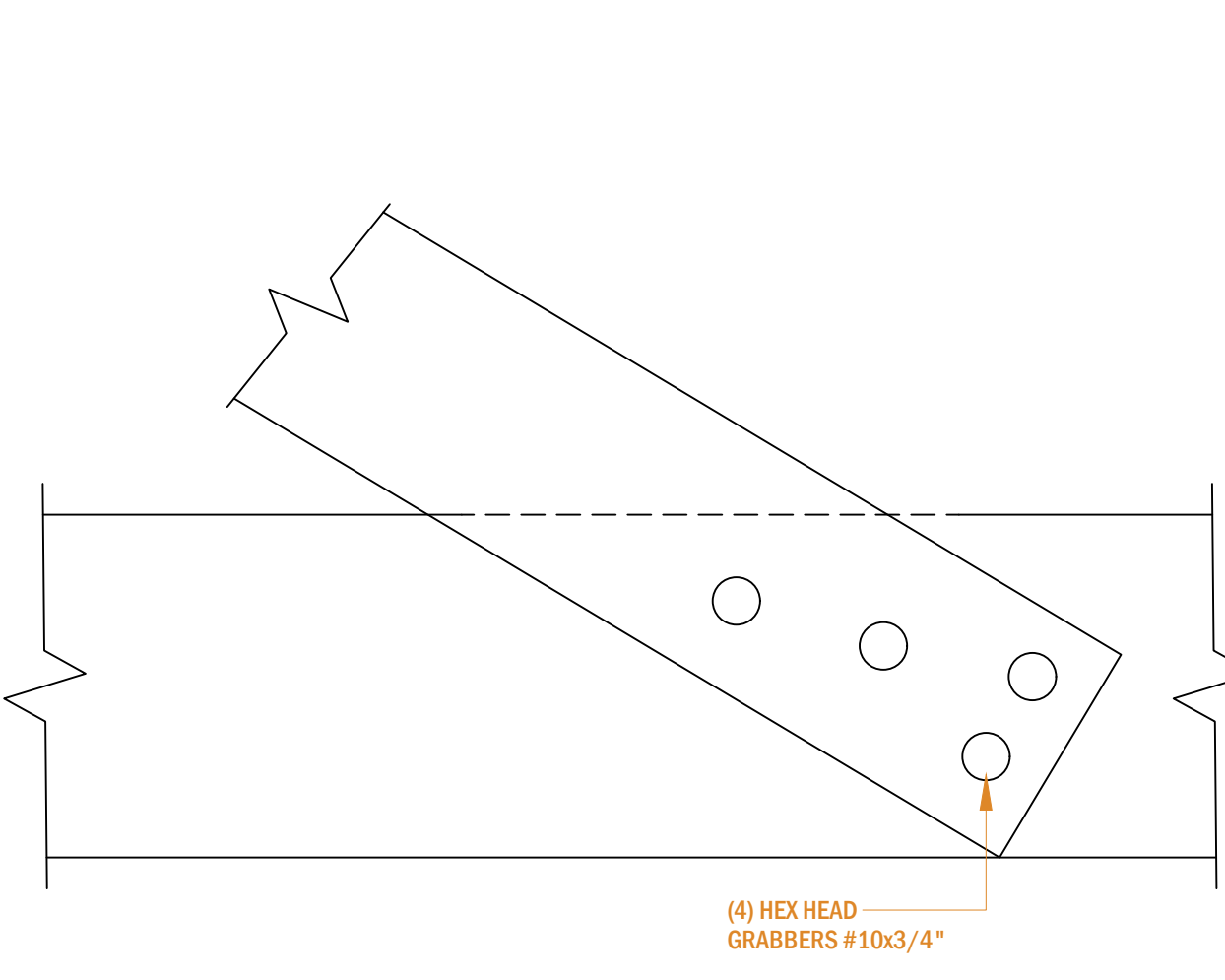
**2 TRUSS CONNECTION 2**

SCALE: 6" = 1'-0"



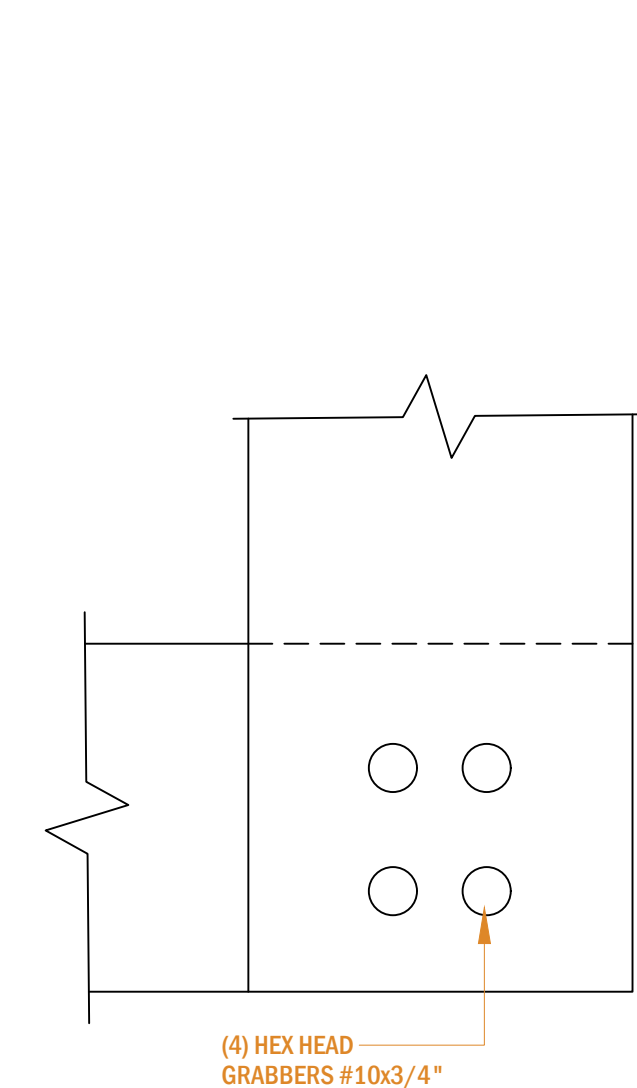
**3 TRUSS CONNECTION 3**

SCALE: 6" = 1'-0"



**4 TRUSS CONNECTION 4**

SCALE: 6" = 1'-0"



**5 TRUSS CONNECTION 5**

SCALE: 6" = 1'-0"



CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	6CSJ18	8.69	0.69C	0.91	#10 SD	0.000	0
#2	358CSJ18	9.50	0.52C	0.55	#10 SD	0.000	0
#3	358CSJ18	3.25	0.38T	0.09	#10 SD	0.347	8
#4	358CSJ18	4.13	0.59T	0.43	#10 SD	0.177	8
#5	358CSJ18	1.92	0.11T	0.05	#10 SD	0.177	8
#6	358CSJ18	2.59	0.77C	0.53	#10 SD	0.177	8
#7	6CSJ18	0.67	0.32T	0.17	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.43	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.49		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.46	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	2	0.52		#10 SD	0.263	8
HIP GIRDER	SEE NOTES			0.50	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			RATIO
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	
BOTTOM CHORD	1-6CSJ18	0.69C	0.12	4.17	3.69	1.74	6.01	0.89
TOP CHORD	1-358CSJ18	0.52T	0.27	2.49	5.69	1.28	4.56	0.61
WEB	1-358CSJ18	0.32T	0.00	0.21	3.83	0.91	3.90	0.08

TRUSS DESIGN CODE: AISI S214-07  
 ASCE 7-16: PASSSD  
 DESIGN METHOD: (ASD)  
 COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.
- SEE ENGINEERS REPORT FOR "TRUSS TO SUPPORT" CONNECTION DESIGN.

MAXIMUM DEFLECTIONS

VERTICAL	0.047 in (L/2398)
HORIZONTAL	0.006 in
TOP OVERHANG	0.029 in (L/400)
VERTICAL	0.027 in (L/4587) [DEAD LOAD ONLY]
VERTICAL	0.022 in (L/5024) [LIVE LOAD ONLY]

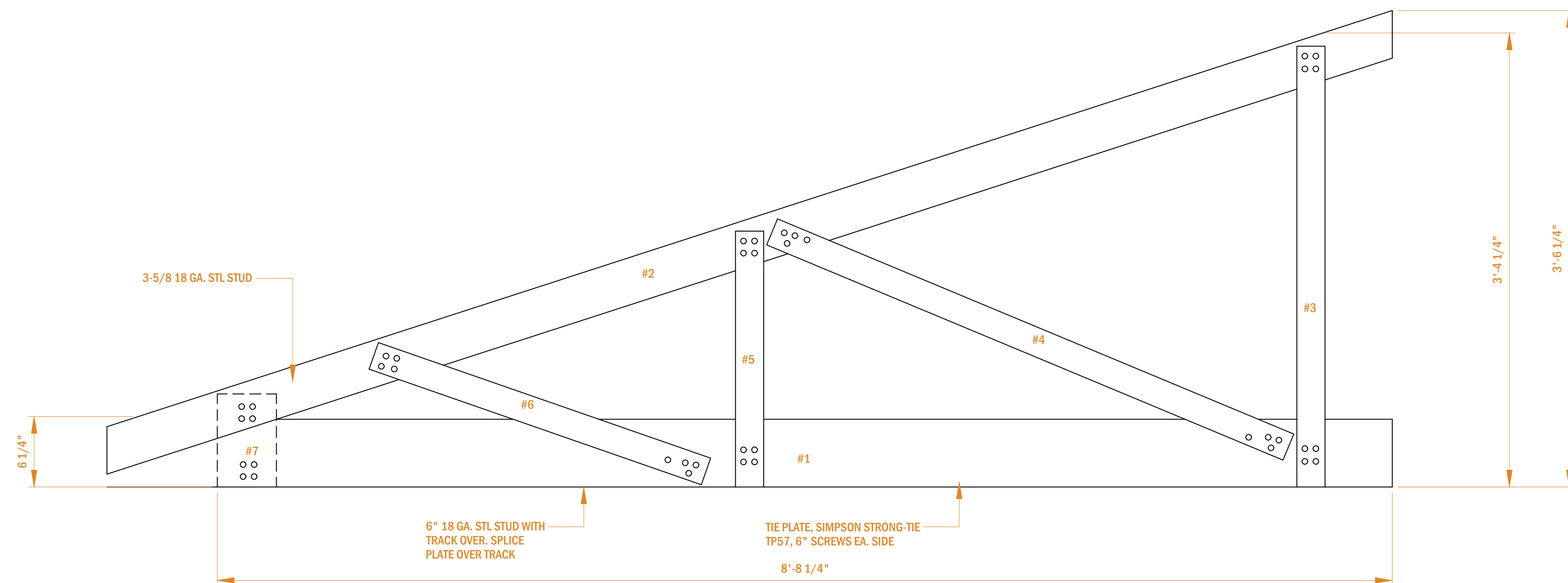
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.47 (0.42)	-0.49 (-0.87)	0.43	6.00
RIGHT	0.38 (0.38)	-0.52 (-1.01)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
 [ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
 PLATE STYLE : OUT-OF-PLANE  
 EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
 BEARING : 6.00in  
 SPACING : 2.00 ft  
 DEAD LOAD : 10.00 PSF (TOP CHORD)  
 DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
 LIVE LOAD : 20.00 PSF (TOP CHORD)  
 LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
 SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
 WIND LOAD : 35.09 PSF (DESIGN)  
 WIND SPEED : 139 MPH (EXPOSURE C)  
 OPEN CATEGORY : E  
 TOPOGRAPHY (Kz) : 1  
 BUILDING CATEGORY : (2) GENERAL  
 DELETE WIND LOAD : RIGHT END  
 SEISMIC COEFFICIENT: 0.0



**1 TRUSS 14 & 23**  
 SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

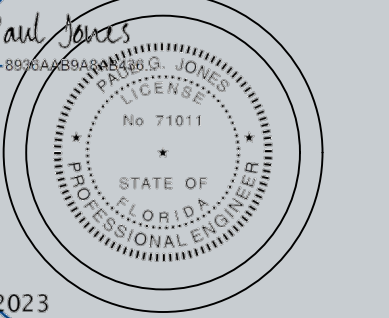
130 RUBY RED PLACE FC,  
 WINTER GARDEN, FL 34787

DATE: 03/30/2023  
 PROJECT NO.: 23-0004

REVISION DATE  
 GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

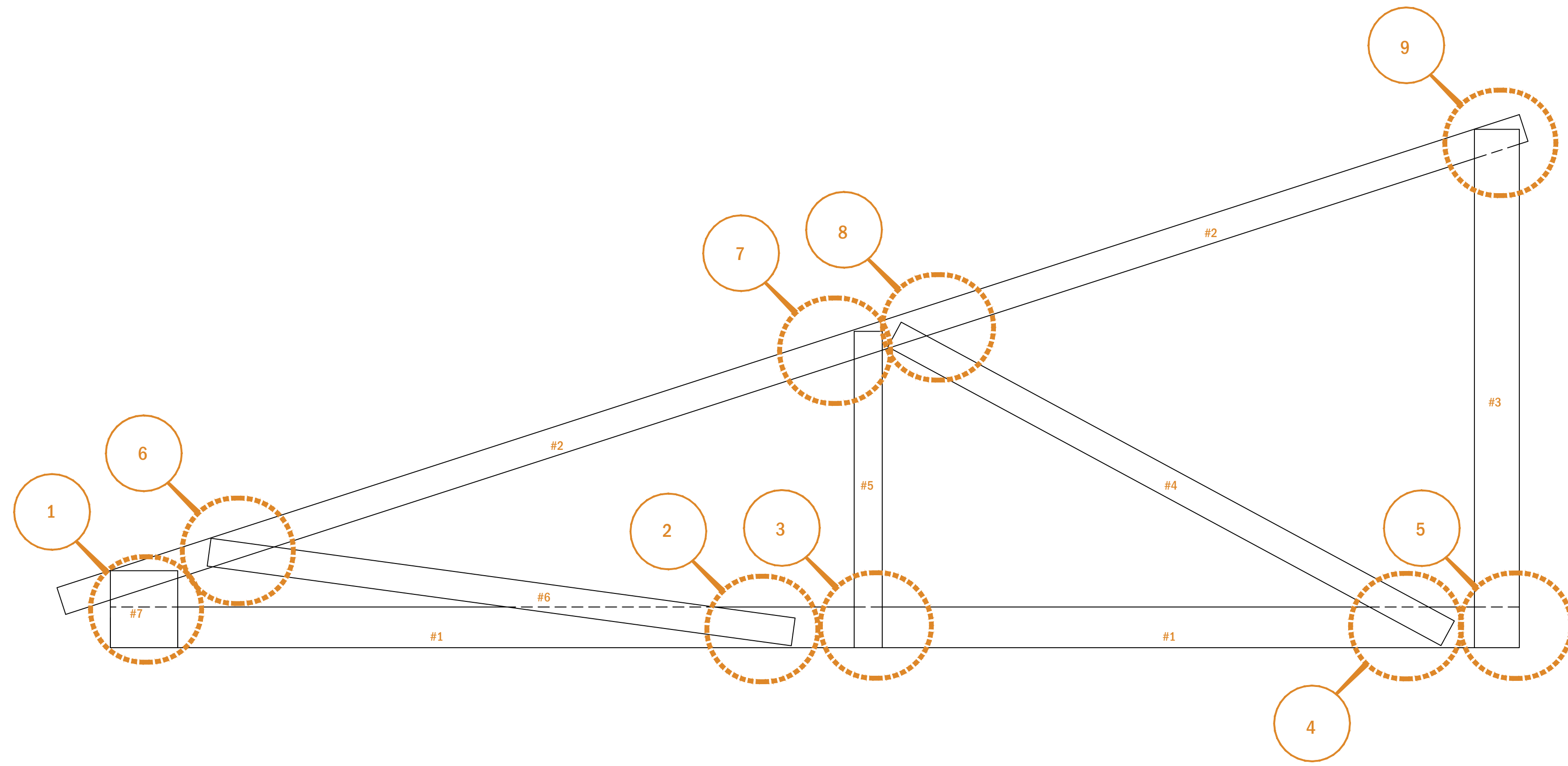
PROFESSIONAL ENGINEER SEAL  
 STATE OF FLORIDA

**TRUSS 14 & 23**

SCALE: AS NOTED

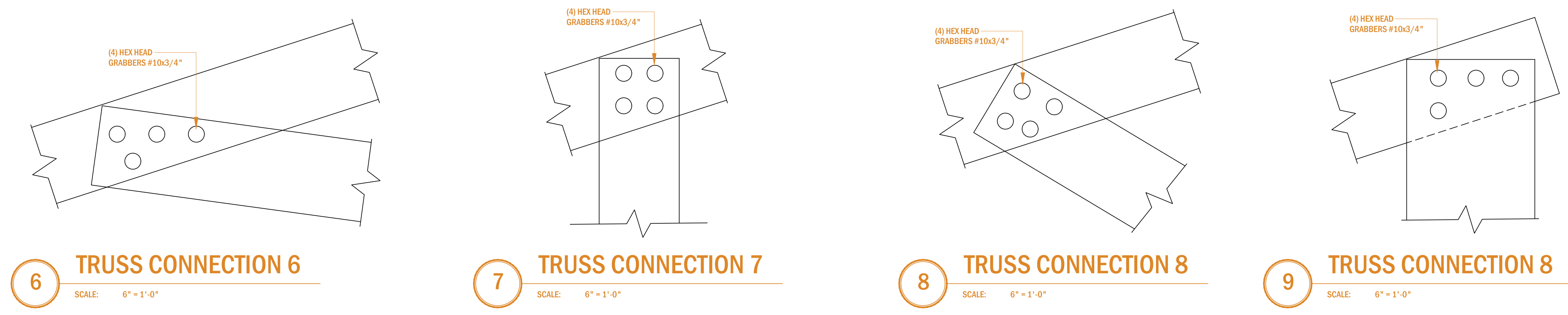
**SD-8.0**

DRAWN BY: JM  
 CHECKED BY: PJ



**TRUSS CONNECTION KEY**

SCALE: 1-1/2" = 1'-0"

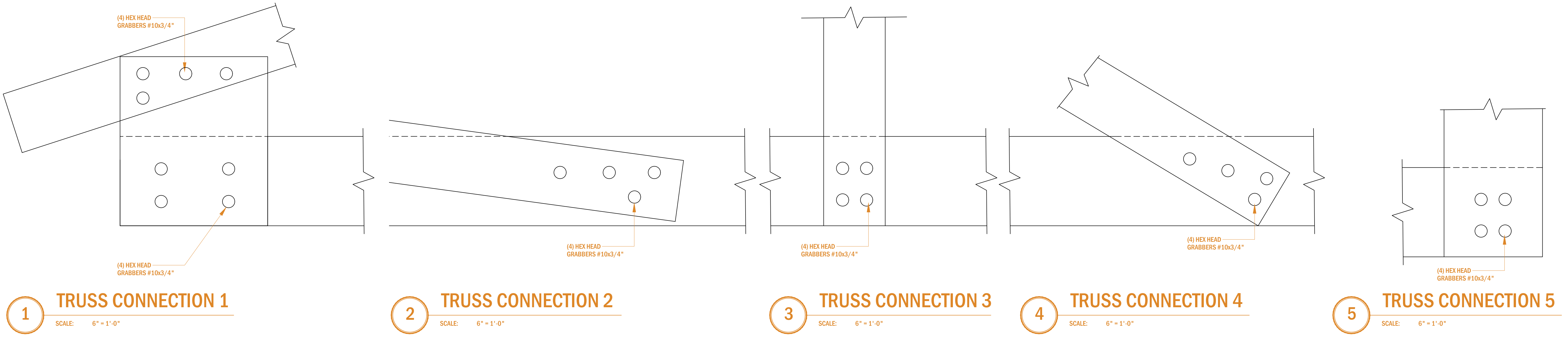


**6 TRUSS CONNECTION 6**  
SCALE: 6" = 1'-0"

**7 TRUSS CONNECTION 7**  
SCALE: 6" = 1'-0"

**8 TRUSS CONNECTION 8**  
SCALE: 6" = 1'-0"

**9 TRUSS CONNECTION 8**  
SCALE: 6" = 1'-0"



**1 TRUSS CONNECTION 1**  
SCALE: 6" = 1'-0"

**2 TRUSS CONNECTION 2**  
SCALE: 6" = 1'-0"

**3 TRUSS CONNECTION 3**  
SCALE: 6" = 1'-0"

**4 TRUSS CONNECTION 4**  
SCALE: 6" = 1'-0"

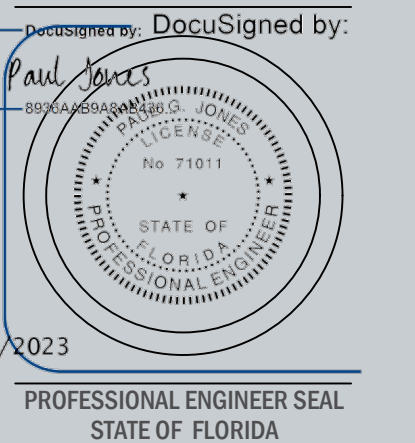
**5 TRUSS CONNECTION 5**  
SCALE: 6" = 1'-0"

2023.03.30

PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787  
PROJECT NO.: 23-0004  
DATE: 03/30/2023  
REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:



5/17/2023

PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 14 & 23  
CONNECTIONS**

SCALE: AS NOTED

**SD-8.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	6CSJ18	6.44	0.62C	0.82	#10 SD	0.000	0
#2	358CSJ18	7.83	0.47C	0.37	#10 SD	0.000	0
#3	358CSJ18	2.58	0.33T	0.05	#10 SD	0.347	8
#4	358CSJ18	4.75	0.57T	0.34	#10 SD	0.177	8
#5	6CSJ18	0.67	0.10C	0.03	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.33		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.33	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.39		#10 SD	0.263	8
HIP RAFTER	SEE NOTES			0.39	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-6CSJ18	0.62C	0.11	2.78	2.68	1.38	4.81	0.89
TOP CHORD	1-358CSJ18	0.47T	0.13	1.57	5.91	1.38	4.71	0.46
WEB	1-358CSJ18	0.57T	0.00	0.13	4.63	2.83	3.72	0.04

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSSD  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.
- SEE ENGINEERS REPORT FOR "TRUSS TO SUPPORT" CONNECTION DESIGN.

MAXIMUM DEFLECTIONS

VERTICAL	0.043 in (L/2090)
HORIZONTAL	0.005 in
TOP OVERHANG	0.026 in (L/500)
VERTICAL	0.022 in (L/3544) [DEAD LOAD ONLY]
VERTICAL	0.017 in (L/4795) [LIVE LOAD ONLY]

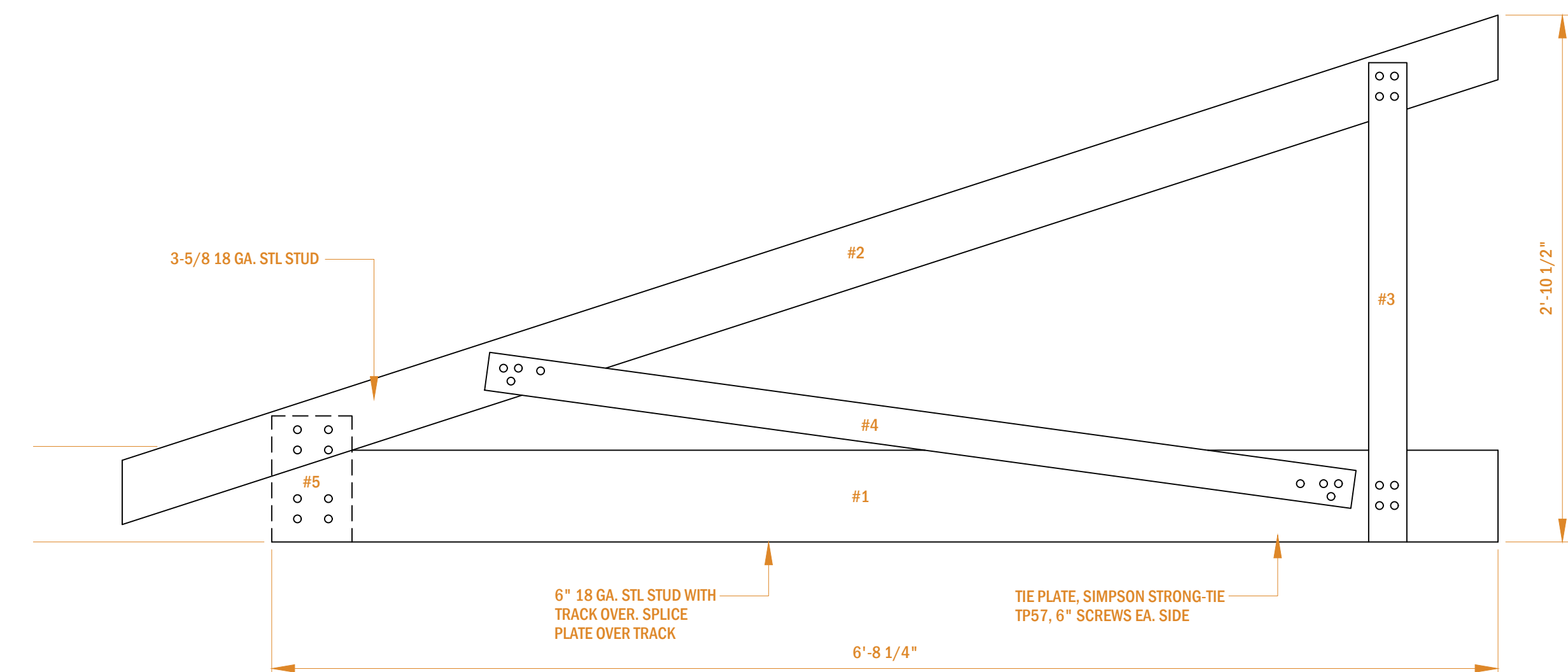
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.36 (0.33)	-0.33 (-0.73)	0.32	6.00
RIGHT	0.26 (0.26)	-0.37 (-0.79)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
[ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1 TRUSS 15 & 22**  
SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

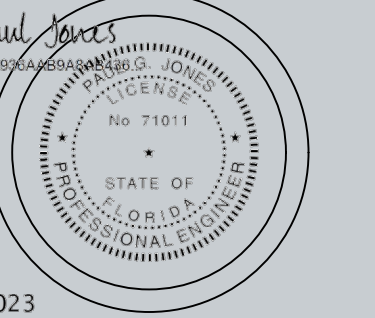
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

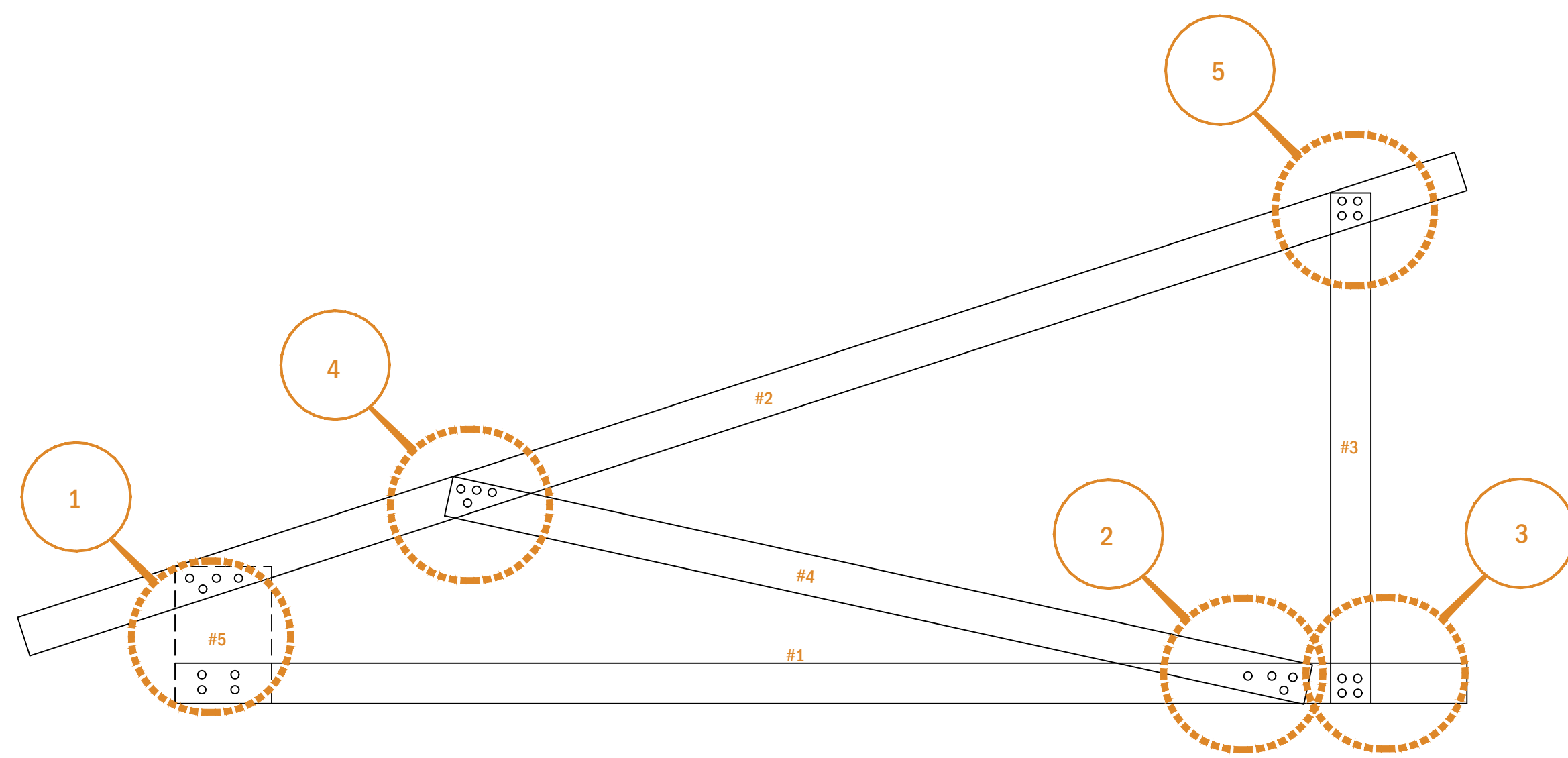
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 15 & 22**

SCALE: AS NOTED

**SD-9.0**

DRAWN BY: JM  
CHECKED BY: PJ



**TRUSS CONNECTION KEY**

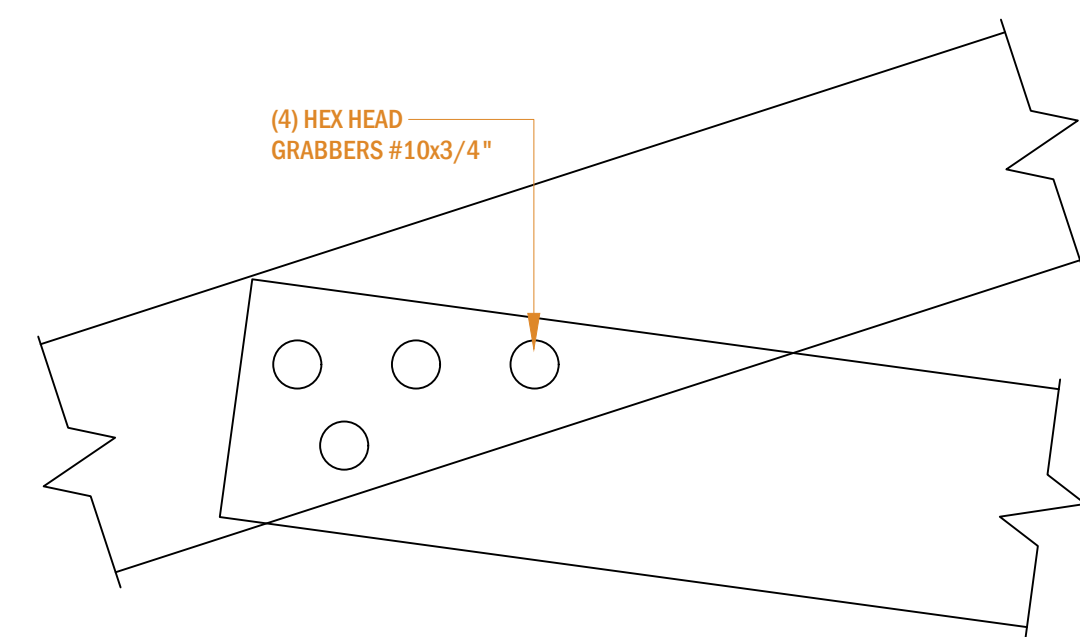
SCALE: 1-1/2" = 1'-0"

2023.03.30

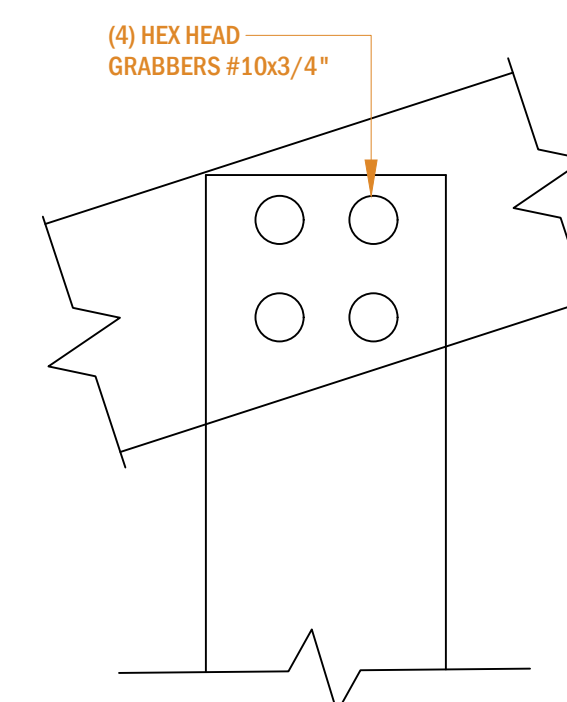
PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787  
DATE: 03/30/2023  
PROJECT NO.: 23-0004  
REVISION DATE  
GENERAL REV. 5/3/2023

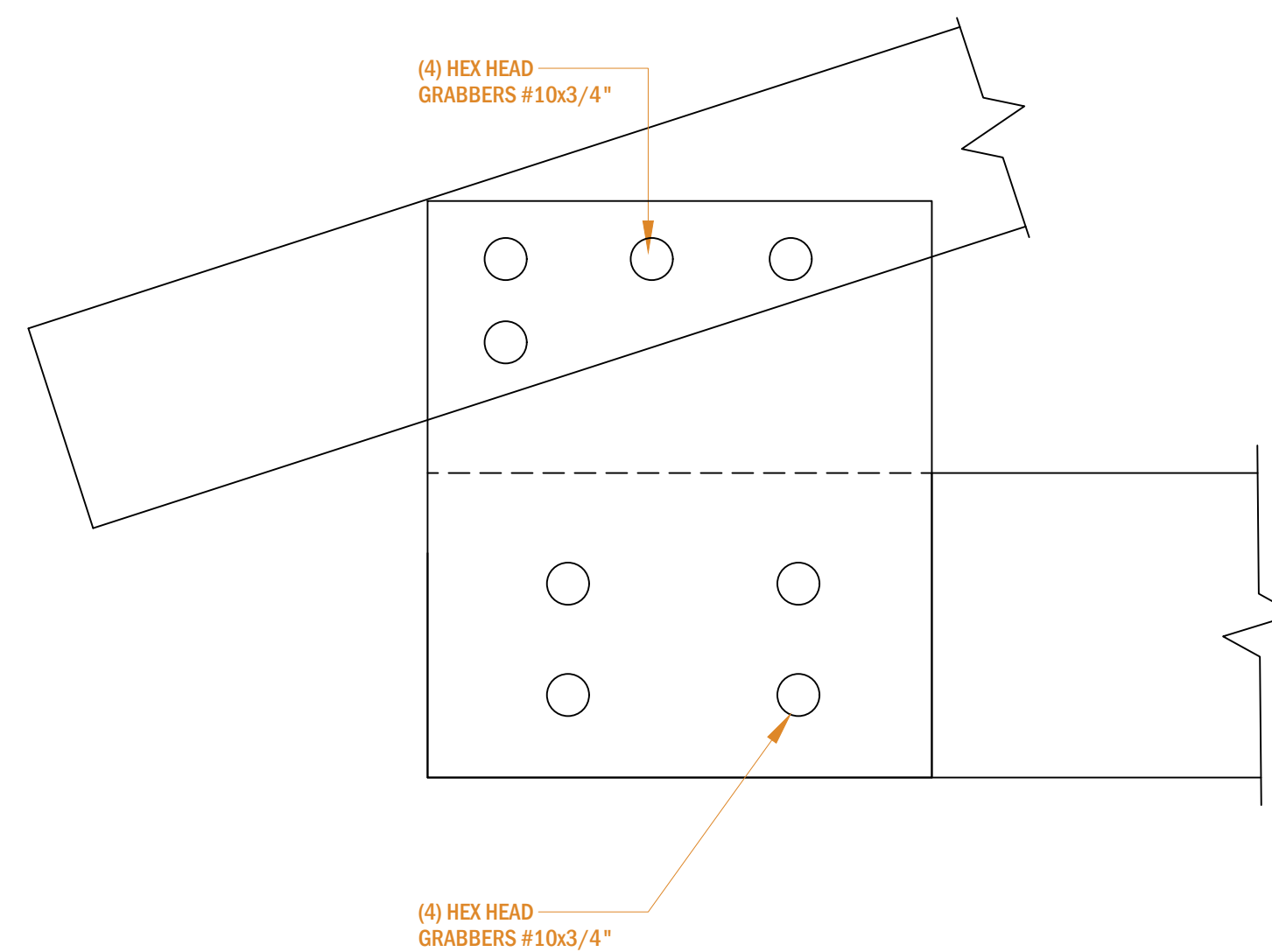
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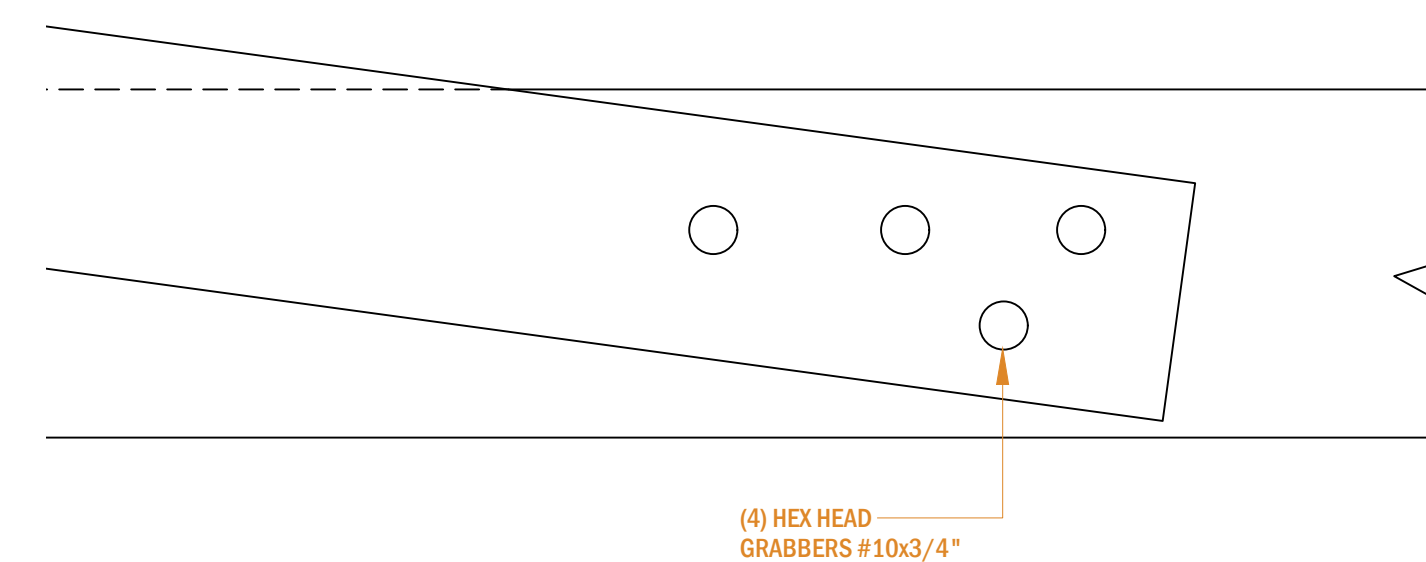
**4 TRUSS CONNECTION 4**  
SCALE: 6" = 1'-0"



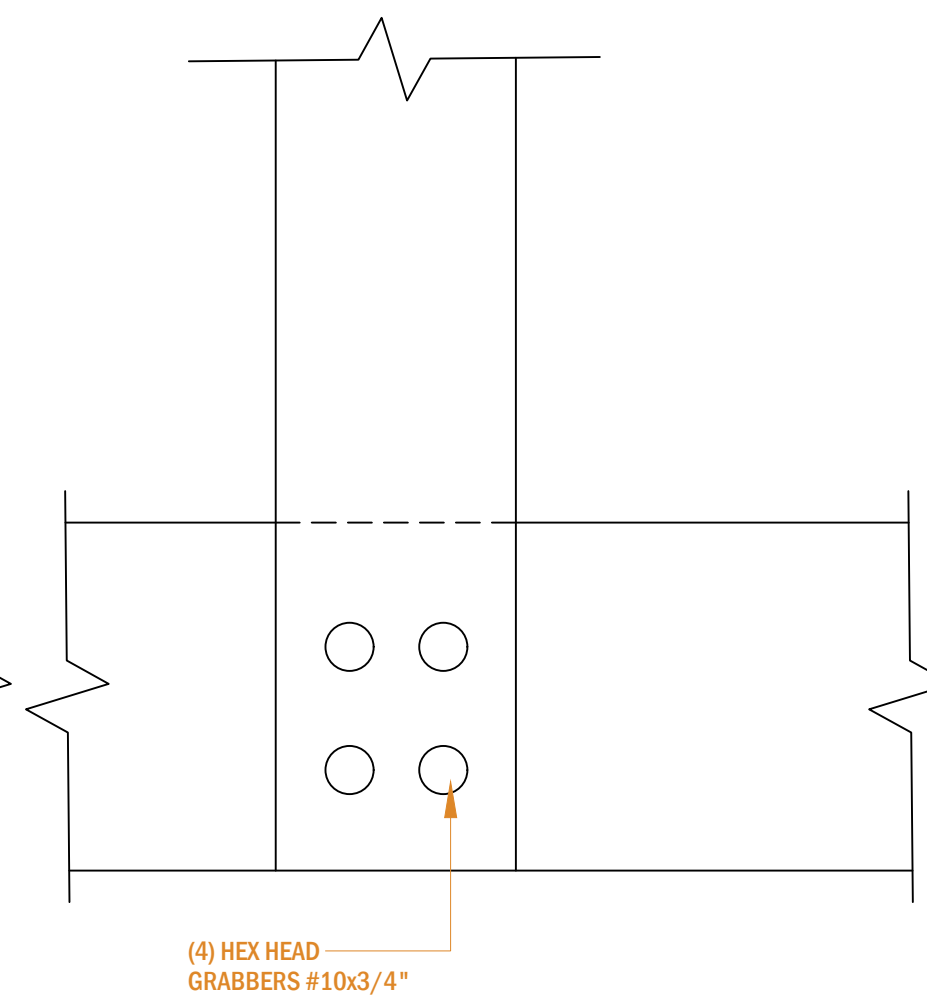
**5 TRUSS CONNECTION 5**  
SCALE: 6" = 1'-0"



**1 TRUSS CONNECTION 1**  
SCALE: 6" = 1'-0"



**2 TRUSS CONNECTION 2**  
SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**  
SCALE: 6" = 1'-0"

DocuSigned by:  
*Paul Jones*  
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA  
5/17/2023

**TRUSS 15 & 22  
CONNECTIONS**  
SCALE: AS NOTED

**SD-9.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	358CS118	4.44	0.39C	0.50	#10 SD	0.000	0
#2	358CS118	5.25	0.08C	0.47	#10 SD	0.000	0
#3	358CS118	1.75	0.18T	0.09	#10 SD	0.347	8
#4	358CS118	3.25	0.39T	0.23	#10 SD	0.177	8
#5	6CSJ18	0.50	0.31C	0.20	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.24	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.24		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.26	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.28		#10 SD	0.263	8
HIP RAFTER	SEE NOTES			0.26	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-358CS118	0.39C	0.09	1.89	3.78	1.25	4.83	0.50
TOP CHORD	1-358CS118	0.08T	0.00	2.28	4.98	1.25	4.79	0.49
WEB	1-358CS118	0.31T	0.00	0.93	4.45	0.91	27.75	0.08

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSSD  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.
- SEE ENGINEERS REPORT FOR "TRUSS TO SUPPORT" CONNECTION DESIGN.

MAXIMUM DEFLECTIONS

VERTICAL	0.020 in (L/2875)
HORIZONTAL	0.002 in
TOP OVERHANG	0.023 in (L/500)
VERTICAL	0.012 in (L/4792) [DEAD LOAD ONLY]
VERTICAL	0.009 in (L/8214) [LIVE LOAD ONLY]

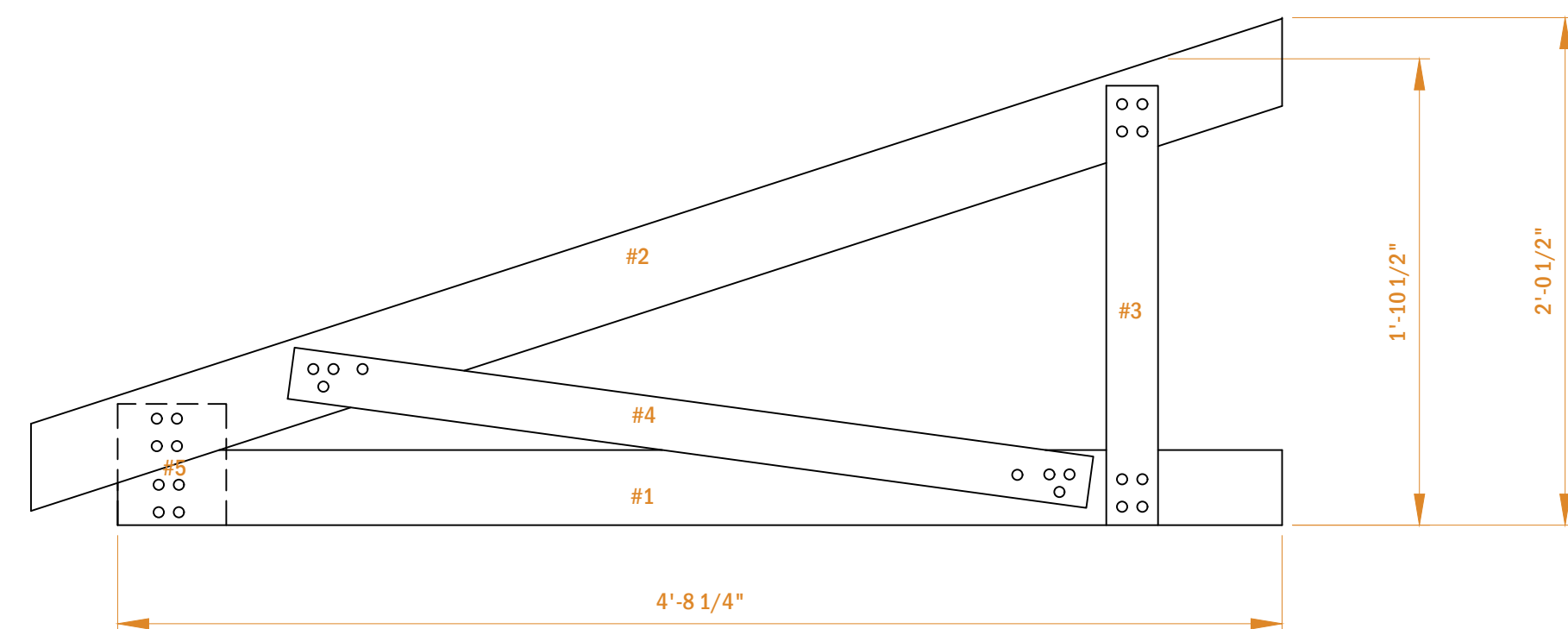
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.26 (0.23)	-0.24(-0.56)	0.24	6.00
RIGHT	0.18 (0.18)	-0.26(-0.55)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
[ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1 TRUSS 16 & 21**

SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

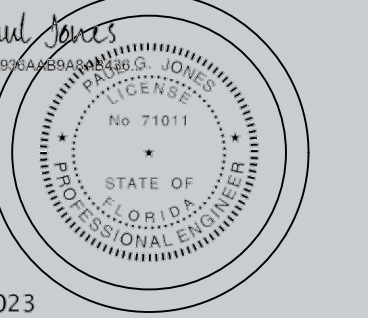
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

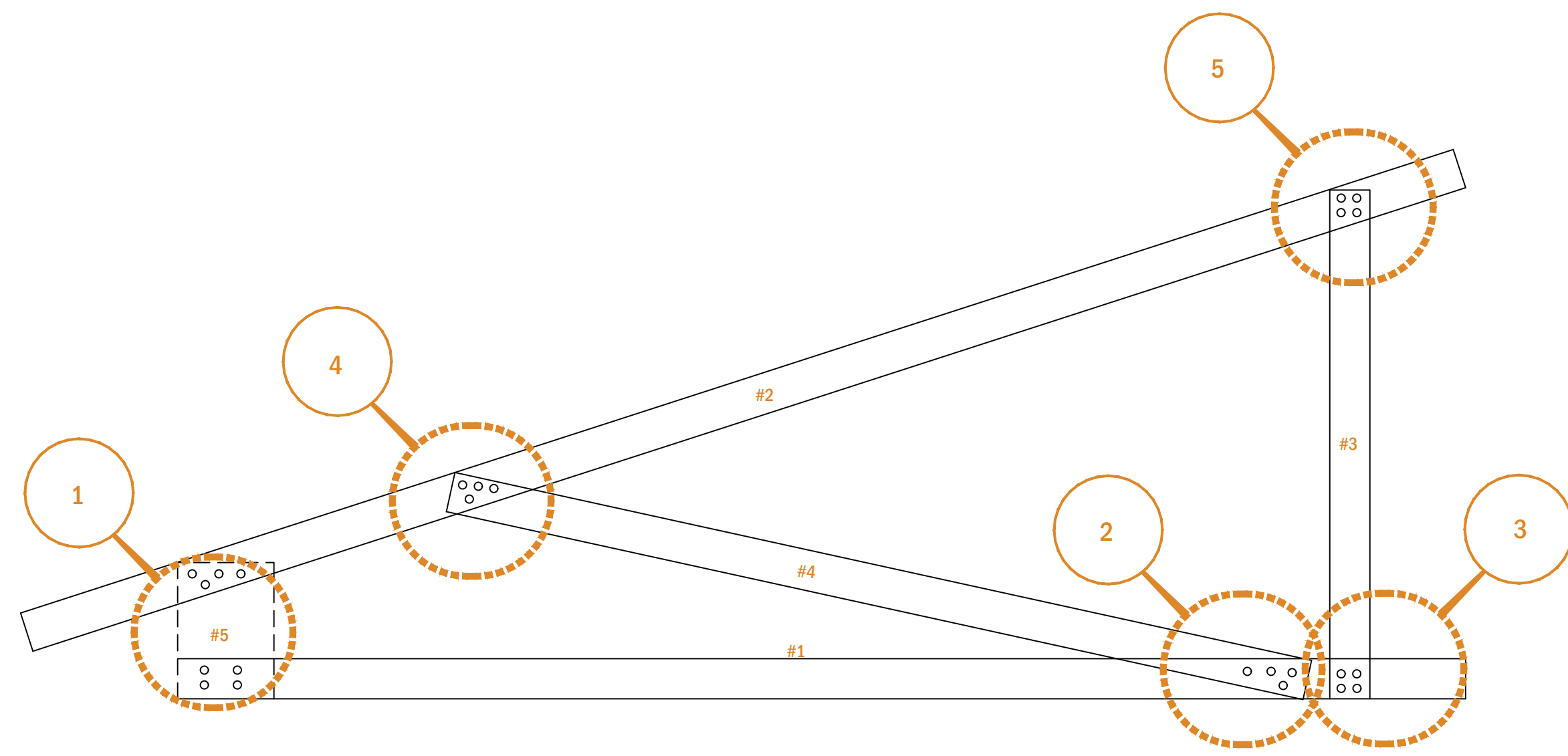
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 16 & 21**

SCALE: AS NOTED

**SD-10.0**

DRAWN BY: JM  
CHECKED BY: PJ



**TRUSS CONNECTION KEY**

SCALE: 1-1/2" = 1'-0"

2023.03.30

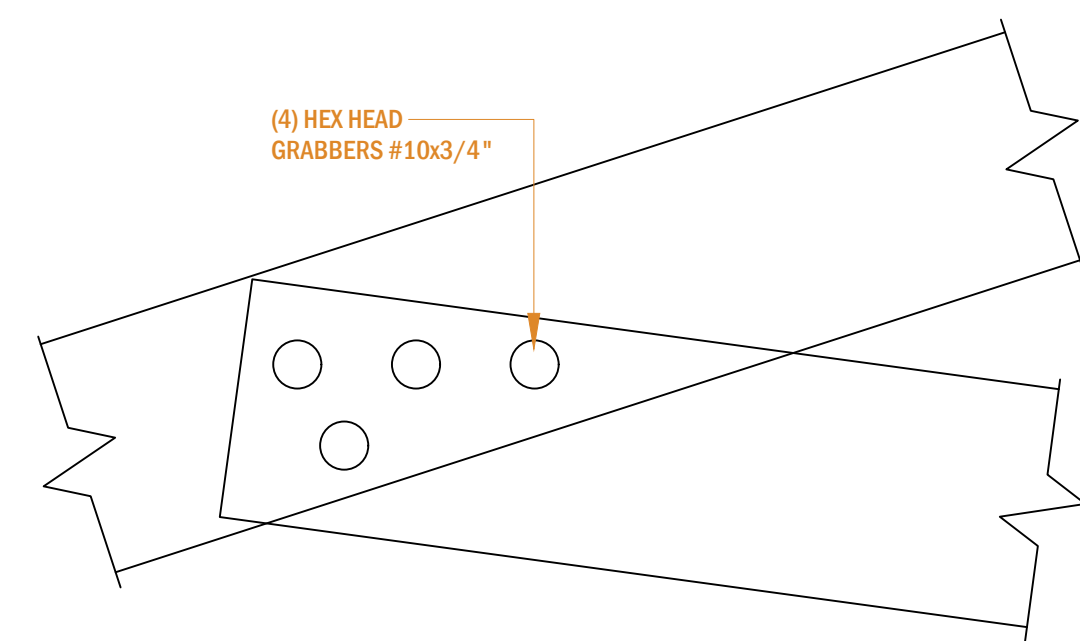
PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

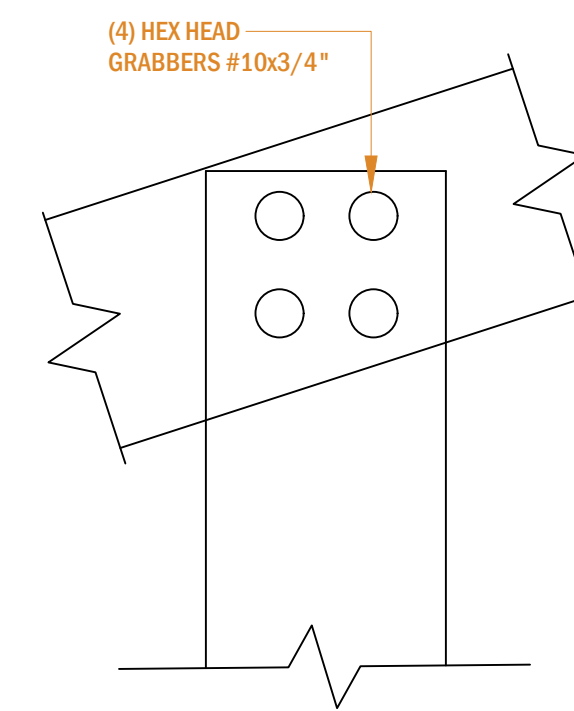
DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

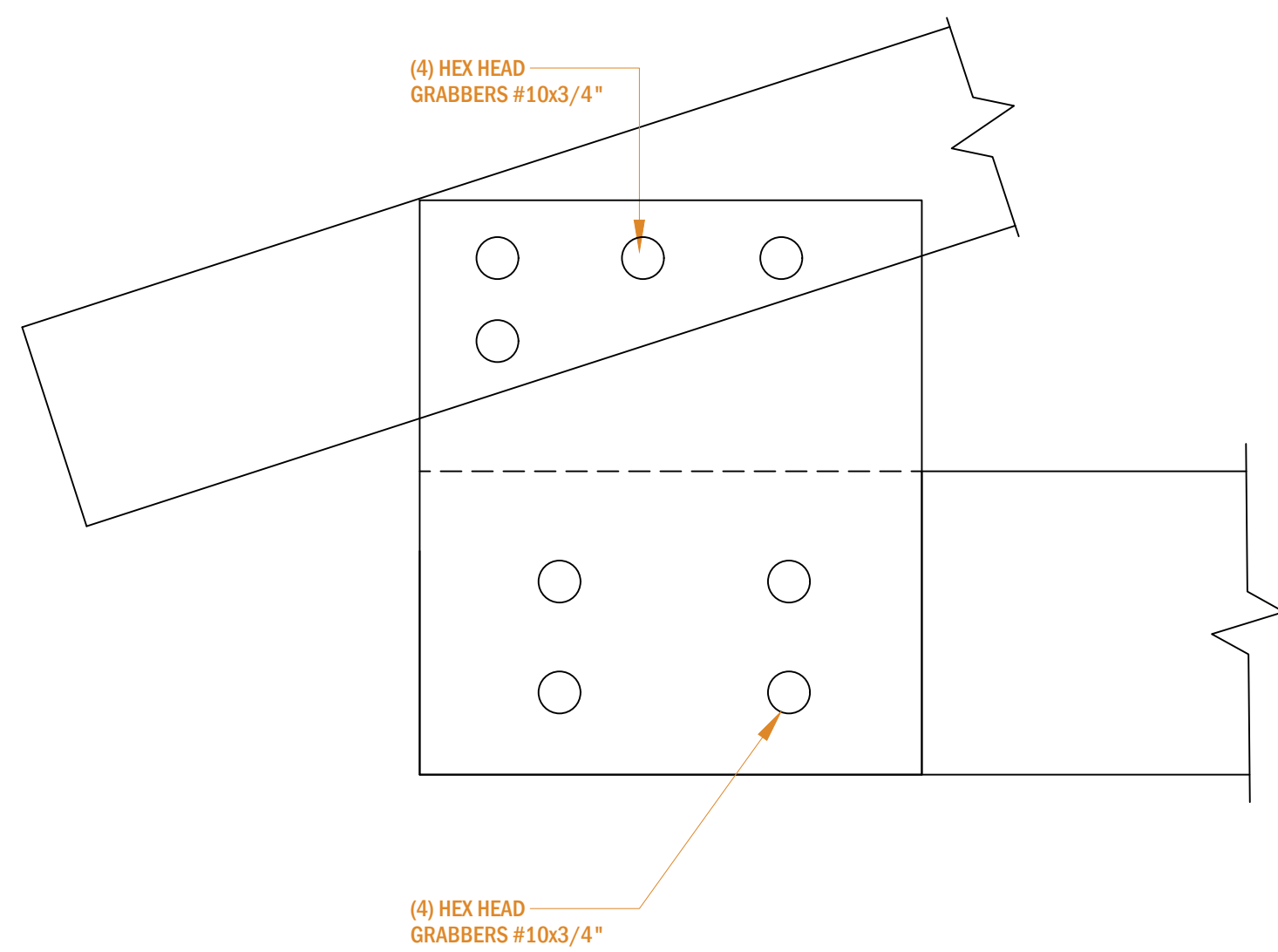
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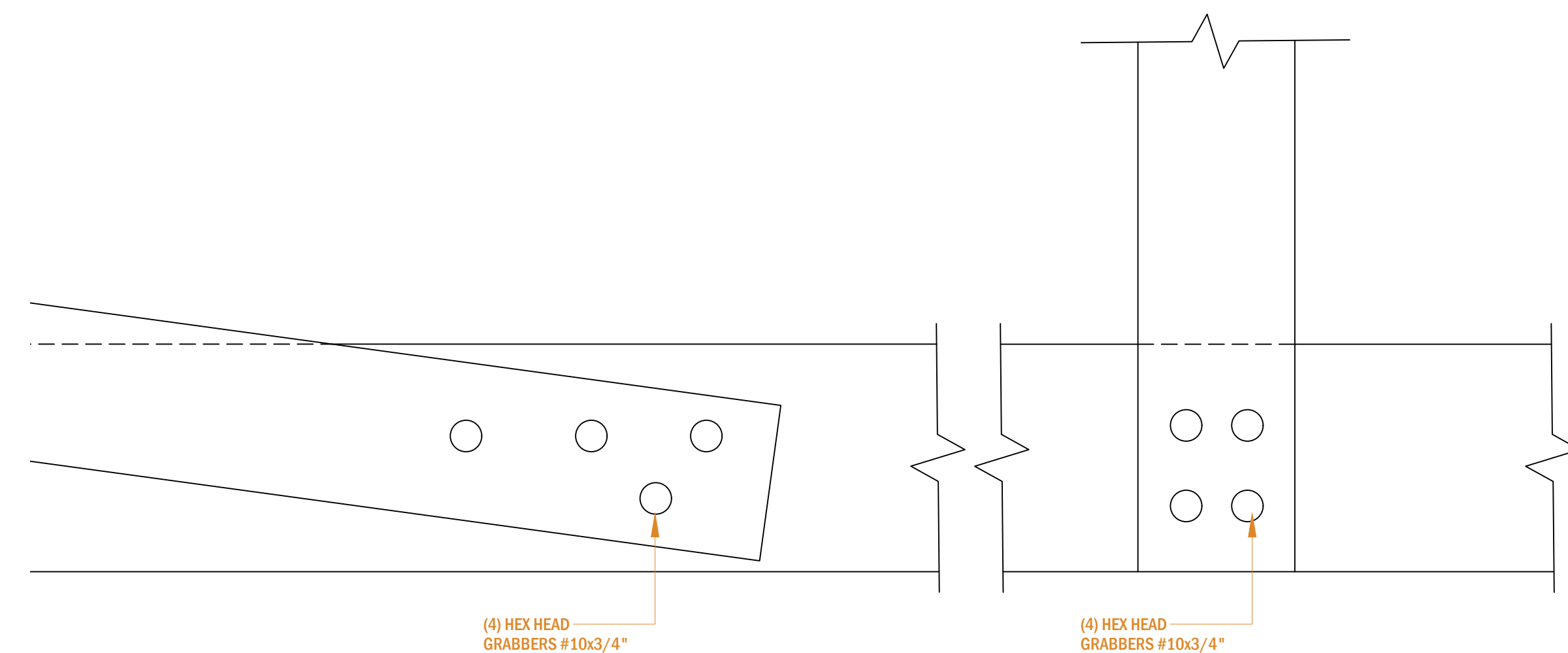
**4 TRUSS CONNECTION 4**  
SCALE: 6" = 1'-0"



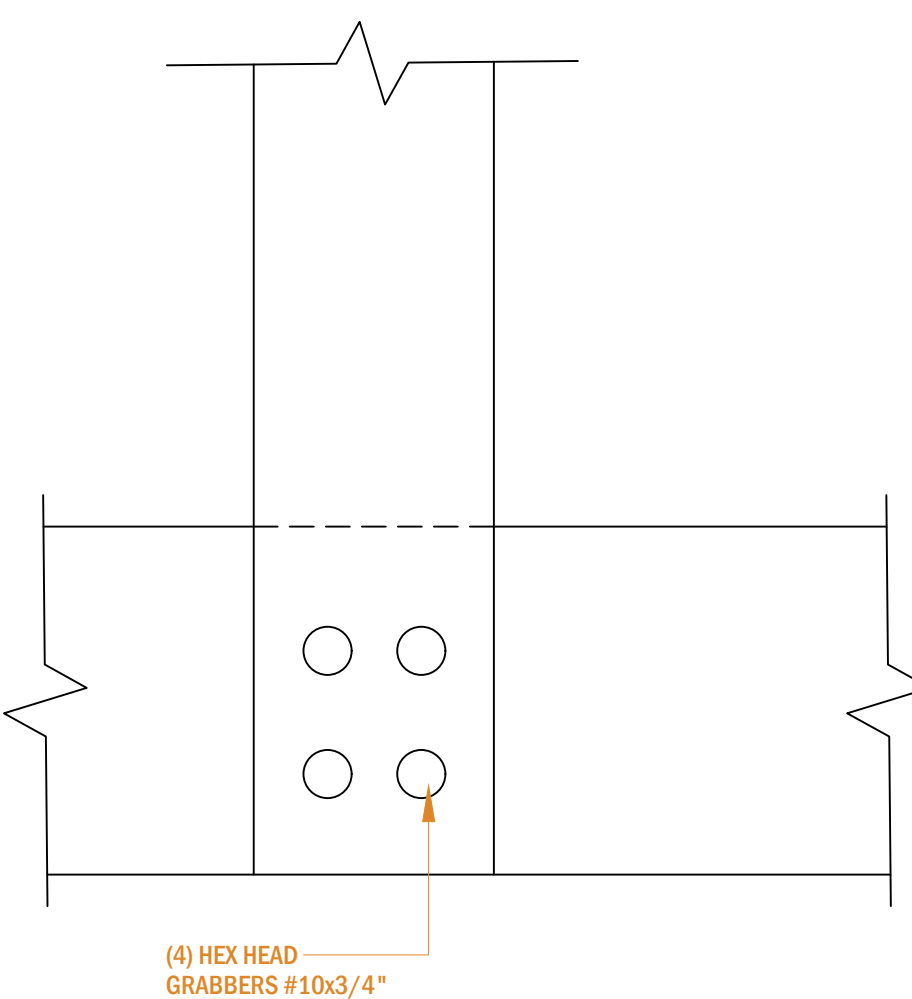
**5 TRUSS CONNECTION 5**  
SCALE: 6" = 1'-0"



**1 TRUSS CONNECTION 1**  
SCALE: 6" = 1'-0"

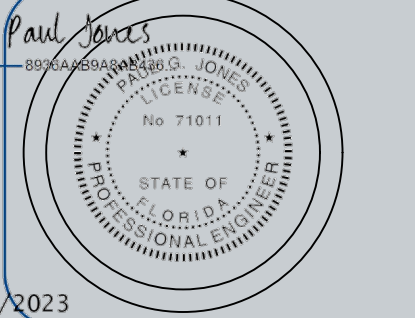


**2 TRUSS CONNECTION 2**  
SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**  
SCALE: 6" = 1'-0"

DocuSigned by:



5/17/2023  
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 16 & 21  
CONNECTIONS**

SCALE: AS NOTED

**SD-10.1**

DRAWN BY: JM  
CHECKED BY: PJ

CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	358CS118	2.67	0.11C	0.28	#10 SD	0.000	0
#2	358CS118	3.17	0.00C	0.11	#10 SD	0.000	0
#3	358CS118	1.09	0.17T	0.04	#10 SD	0.347	8
#4	358CS118	1.42	0.17T	0.12	#10 SD	0.177	8
#5	6CSJ18	0.50	0.18C	0.13	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
CHORD WALL	SEE NOTES			0.17	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.18		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.17	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.16		#10 SD	0.263	8
HIP RAFTER	SEE NOTES			0.16	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-358CS118	0.11T	0.17	1.18	5.62	1.23	4.69	0.28
TOP CHORD	1-358CS118	0.00C	0.09	0.33	5.03	1.23	4.69	0.11
WEB	1-358CS118	0.18T	0.00	0.11	4.41	0.97	27.67	0.06

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSED  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMA-7-8-2016 LIBRARY.
- SEE ENGINEERS REPORT FOR "TRUSS TO SUPPORT" CONNECTION DESIGN.

MAXIMUM DEFLECTIONS

VERTICAL	0.008 in (L/4786)
HORIZONTAL	0.000 in
TOP OVERHANG	0.010 in (L/1200)
VERTICAL	0.004 in (L/9999) [DEAD LOAD ONLY]
VERTICAL	0.003 in (L/9999) [LIVE LOAD ONLY]

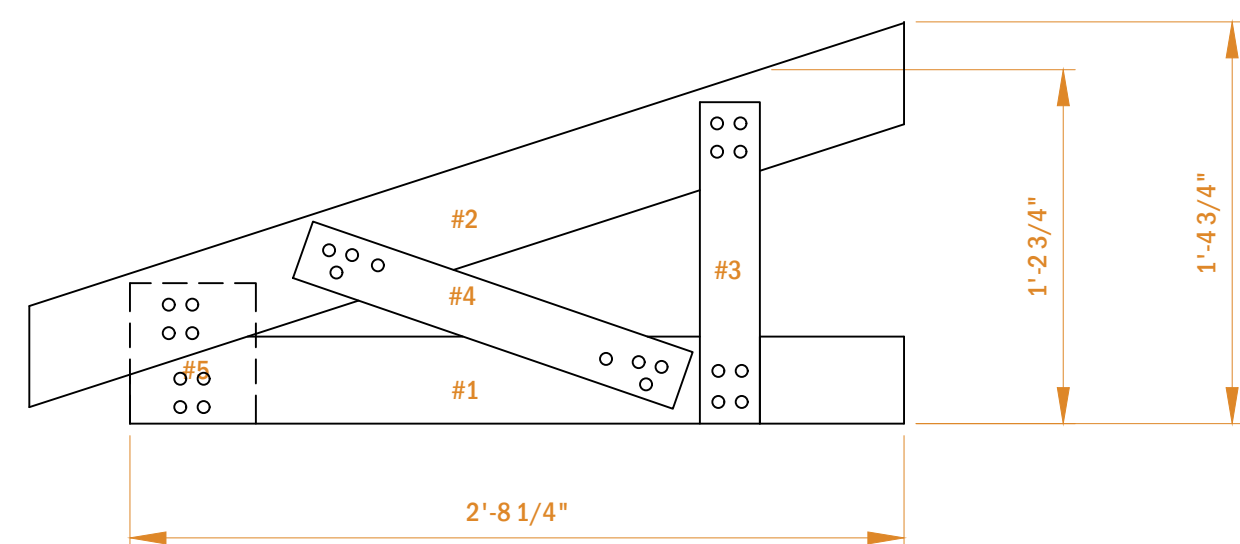
SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.17 (0.13)	-0.18 (-0.39)	0.16	6.00
RIGHT	0.11(0.11)	-0.16 (-0.32)	0.00	2.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

[ ] DENOTES "DEAD+LIVE ONLY"  
[ ] DENOTES "WIND ONLY" UPLIFT REACTION

DESIGN DATA

NUMBER OF TRUSS = 2 EACH  
PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1 TRUSS 17 & 20**

SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

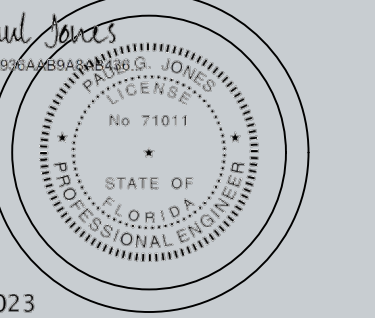
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

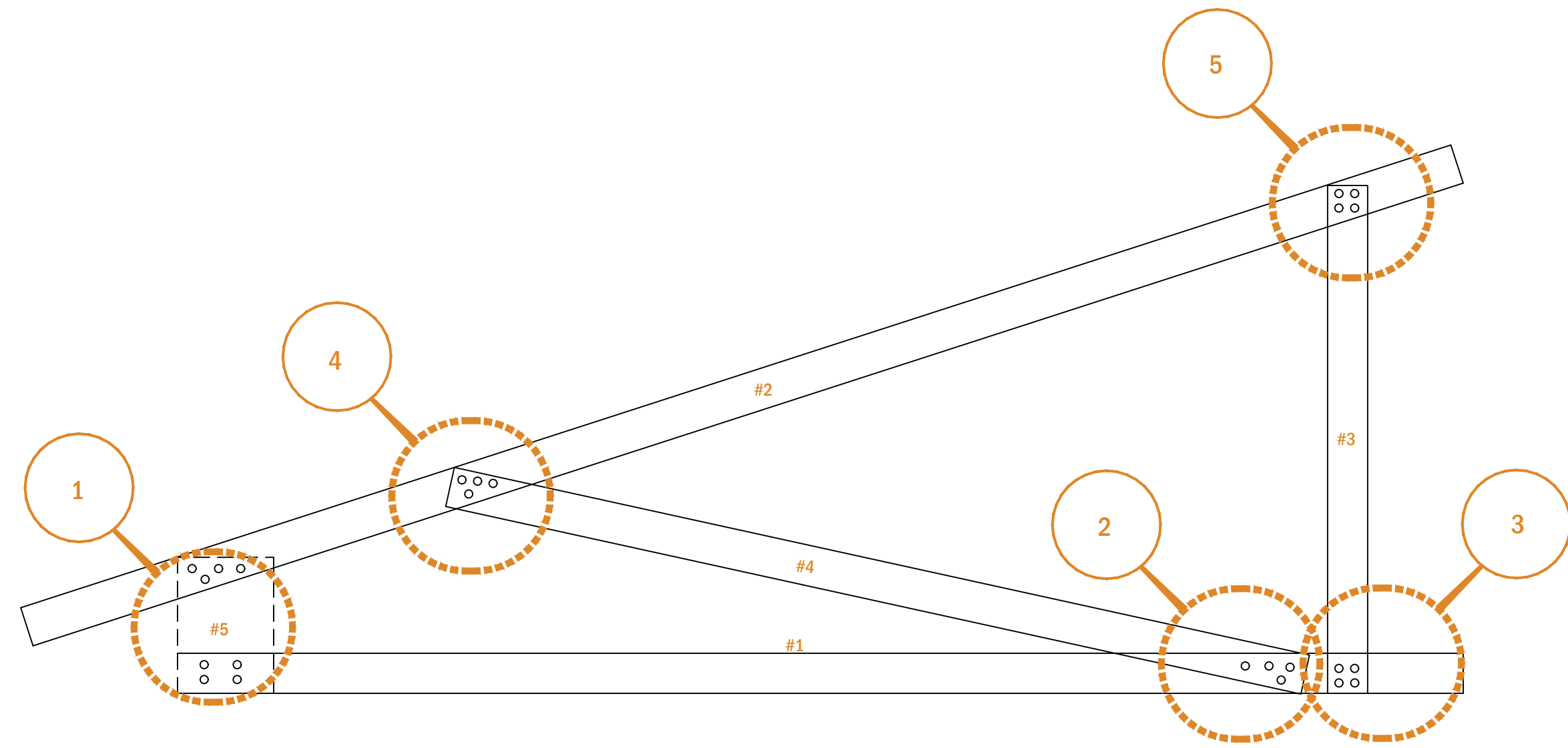
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 17 & 20**

SCALE: AS NOTED

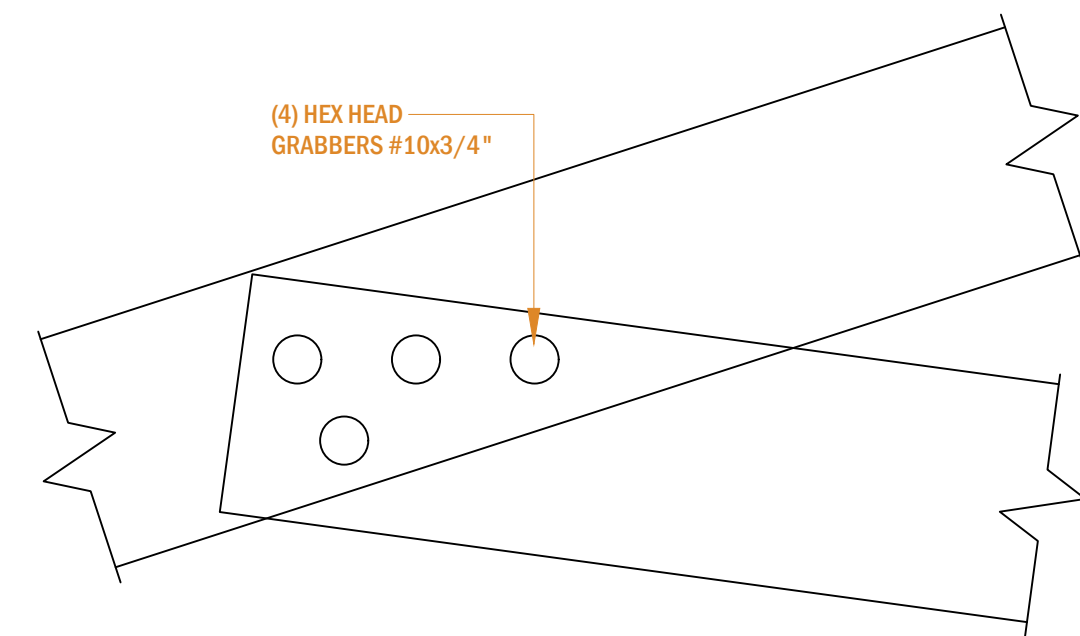
**SD-11.0**

DRAWN BY: JM  
CHECKED BY: PJ



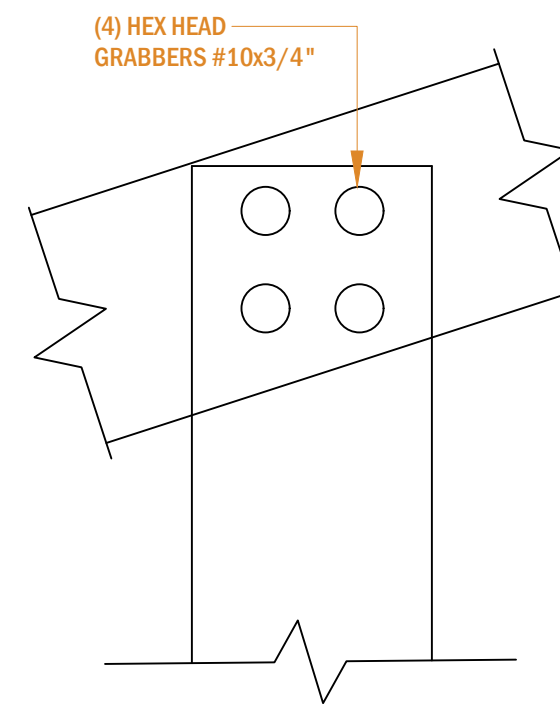
**TRUSS CONNECTION KEY**

SCALE: 1-1/2" = 1'-0"



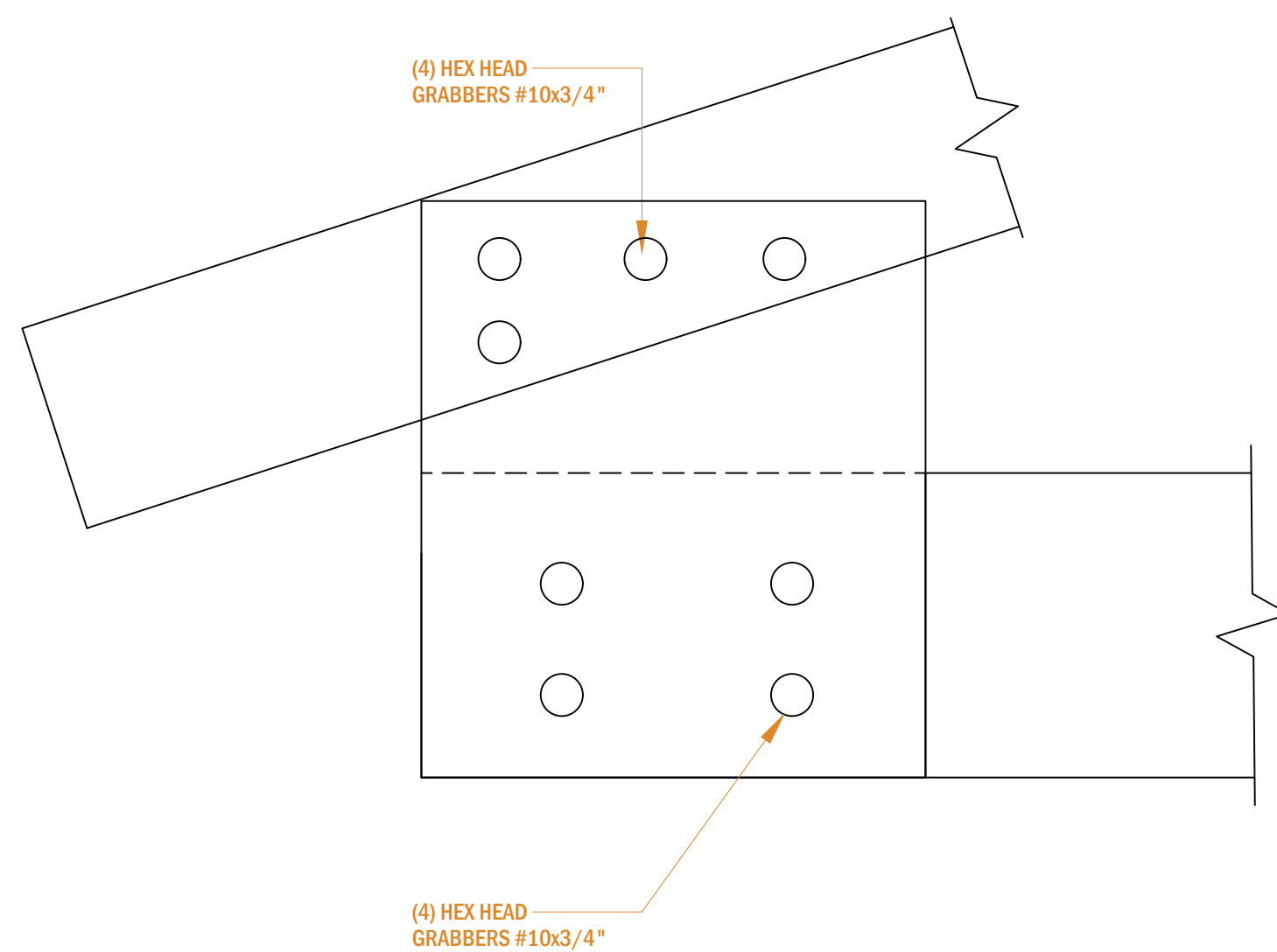
**4 TRUSS CONNECTION 4**

SCALE: 6" = 1'-0"



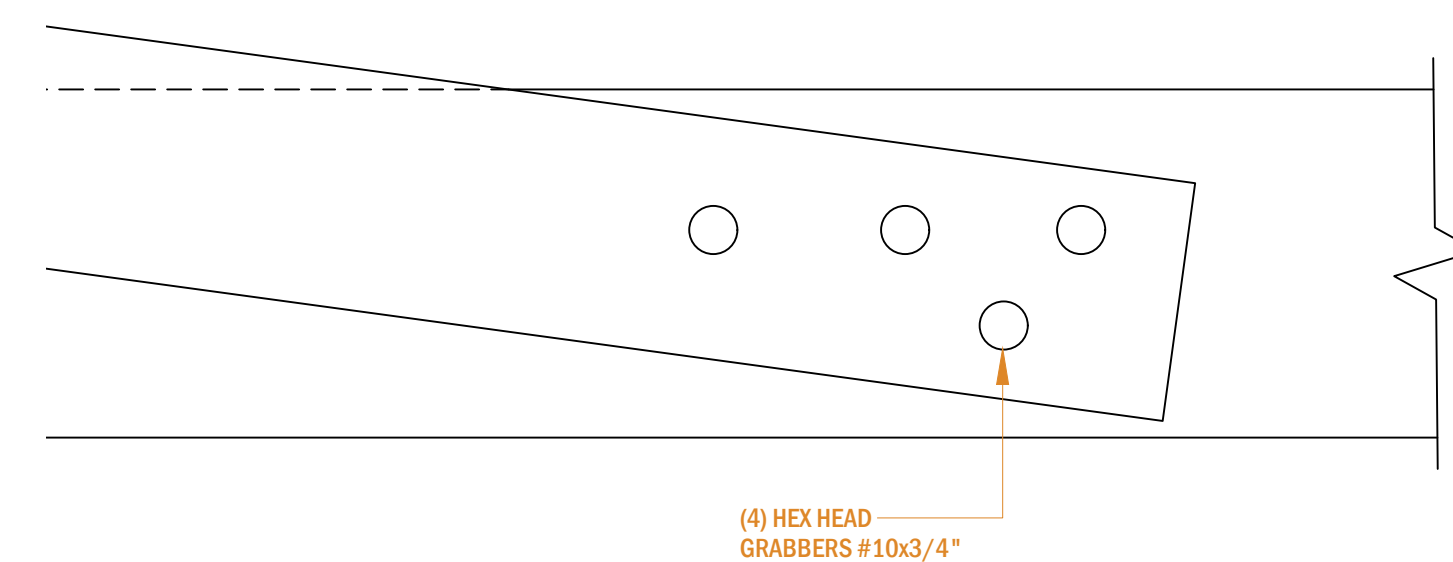
**5 TRUSS CONNECTION 5**

SCALE: 6" = 1'-0"



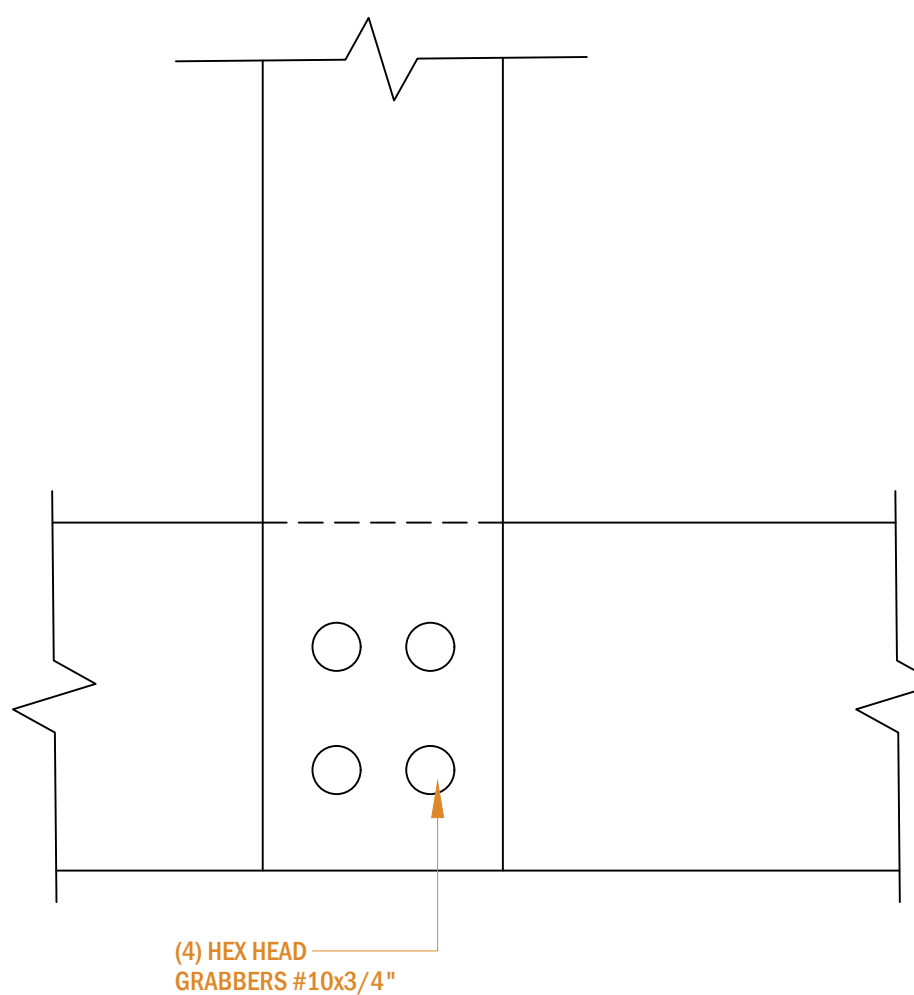
**1 TRUSS CONNECTION 1**

SCALE: 6" = 1'-0"



**2 TRUSS CONNECTION 2**

SCALE: 6" = 1'-0"



**3 TRUSS CONNECTION 3**

SCALE: 6" = 1'-0"

2023.03.30

PROJECT:  
**SHOP DWGS FOR  
EXTERIOR ARCADE**

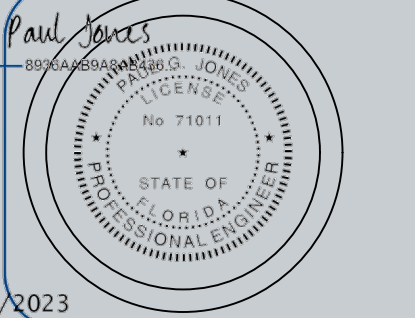
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 17 & 20  
CONNECTIONS**

SCALE: AS NOTED

**SD-11.1**

DRAWN BY: JM  
CHECKED BY: PJ



CONNECTION	SECTION	LENGTH	AXIAL	INT.	FASTENER	PA	REQ.
#1	358CS118	0.67	0.02C	0.05	#10 SD	0.000	0
#2	358CS118	1.07	0.00C	0.08	#10 SD	0.000	0
#3	358CS118	0.58	0.10T	0.08	#10 SD	0.117	8
#4	6CSJ18	0.41	0.01T	0.00	#10 SD	0.177	8

CONNECTION	SIMPSON	EACH	LOAD	UPLIFT/SHR	FASTENER	PA	REQ.
TRUSS CHORD	SEE NOTES	1	0.10		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.10	#10 SD	0.263	8
TRUSS CHORD	SEE NOTES	1	0.01		#10 SD	0.263	8
STEEL STUD	SEE NOTES			0.01	#10 SD	0.263	8

PER AISI S100-2007		ACTUAL			ALLOWABLE			
MEMBER	SECTION	Po	Vo	Mo	Pa	Va	Ma	RATIO
BOTTOM CHORD	1-358CS118	0.02	0.06	0.03	5.03	1.23	4.75	0.05
TOP CHORD	1-358CS118	0.00T	0.08	0.23	5.71	1.23	4.74	0.08
WEB	1-358CS118	0.01T	0.00	0.17	5.18	1.02	5.78	0.08

TRUSS DESIGN CODE: AISI S214-07  
ASCE 7-16: PASSED  
DESIGN METHOD: (ASD)  
COMPONENT WIND PRESSURE DESIGN (END)

GENERAL NOTES

- TRUSSES REQUIRE LATERAL BRACING. SEE TRUSS LAYOUT AND DETAIL SHEETS.
- NUMBER OF FASTENERS NOTED IN CHART INSTALLED ON EACH END OF WEB.
- ALLOWABLE FASTENER VALUES BASED ON COLD-FORMED STEEL DESIGN FORMULAE.
- (ws) DENOTES WEB STIFFENER REQUIRED AT SUPPORT.
- MEMBER DESIGN BASED ON SECTIONS IN UNITED\_SSMMA-7-8-2016 LIBRARY.
- SEE ENGINEERS REPORT FOR "TRUSS TO SUPPORT" CONNECTION DESIGN.

MAXIMUM DEFLECTIONS

VERTICAL 0.000 in (L/9999)  
HORIZONTAL 0.000h

SUPPORT REACTIONS	DOWN	UPLIFT	HORIZONTAL	BEARING
LEFT	0.07 (0.06)	-0.10 [-0.19]	0.06	3.00
RIGHT	0.01 (0.01)	-0.01 [-0.03]	0.00	3.00

\*UPLIFT LOAD COMBINATION (TRUSS TO SUPPORT CONNECTION ONLY): 0.6 DEAD + 0.6 WIND

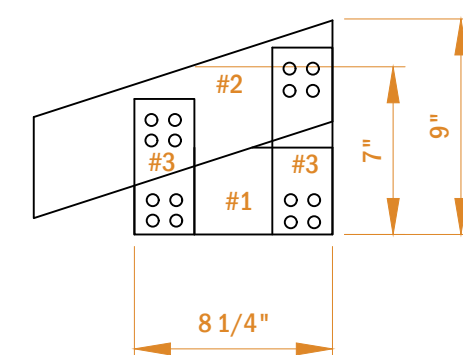
[ ] DENOTES 'DEAD+LIVE ONLY'

[ ] DENOTES 'WIND ONLY' UPLIFT REACTION

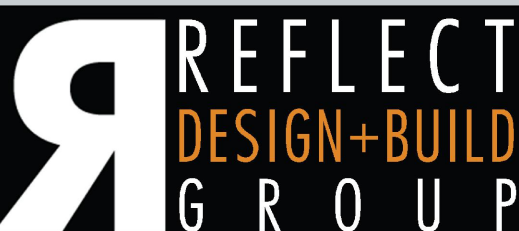
DESIGN DATA

NUMBER OF TRUSS = 2 EACH

PLATE STYLE : OUT-OF-PLANE  
EAVE HEIGHT : 12.00 ft (TOP OF WALL)  
BEARING : 6.000 in  
SPACING : 2.00 ft  
DEAD LOAD : 10.00 PSF (TOP CHORD)  
DEAD LOAD : 10.00 PSF (BOTTOM CHORD)  
LIVE LOAD : 20.00 PSF (TOP CHORD)  
LIVE LOAD : 0.00 PSF (BOTTOM CHORD)  
SNOW LOAD : 0.00 PSF (GROUND) (Ct=1.00)  
WIND LOAD : 35.09 PSF (DESIGN)  
WIND SPEED : 139 MPH (EXPOSURE C)  
OPEN CATEGORY : E  
TOPOGRAPHY (Kz) : 1  
BUILDING CATEGORY : (2) GENERAL  
DELETE WIND LOAD : RIGHT END  
SEISMIC COEFFICIENT: 0.0



**1** TRUSS 18 & 19  
SCALE: 1-1/2" = 1'-0"



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

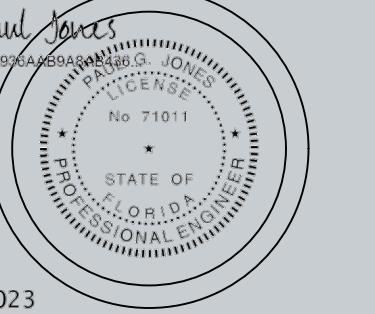
130 RUBY RED PLACE FC,  
WINTER GARDEN, FL 34787

DATE: 03/30/2023  
PROJECT NO.: 23-0004

REVISION DATE  
GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

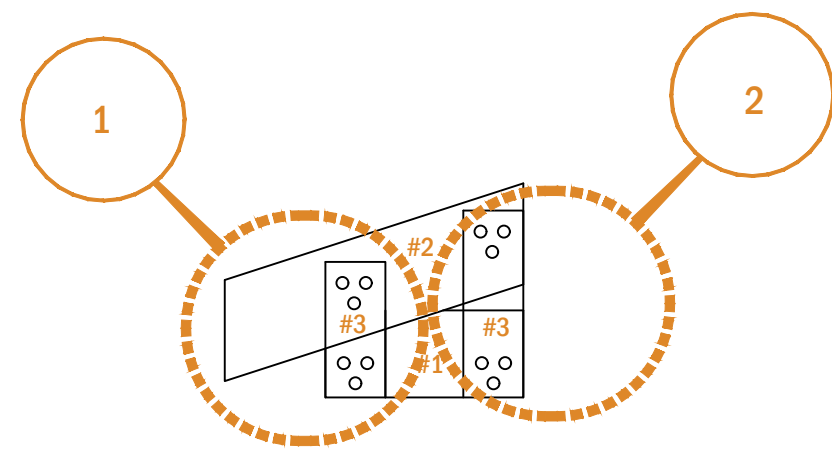
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

**TRUSS 18 & 19**

SCALE: AS NOTED

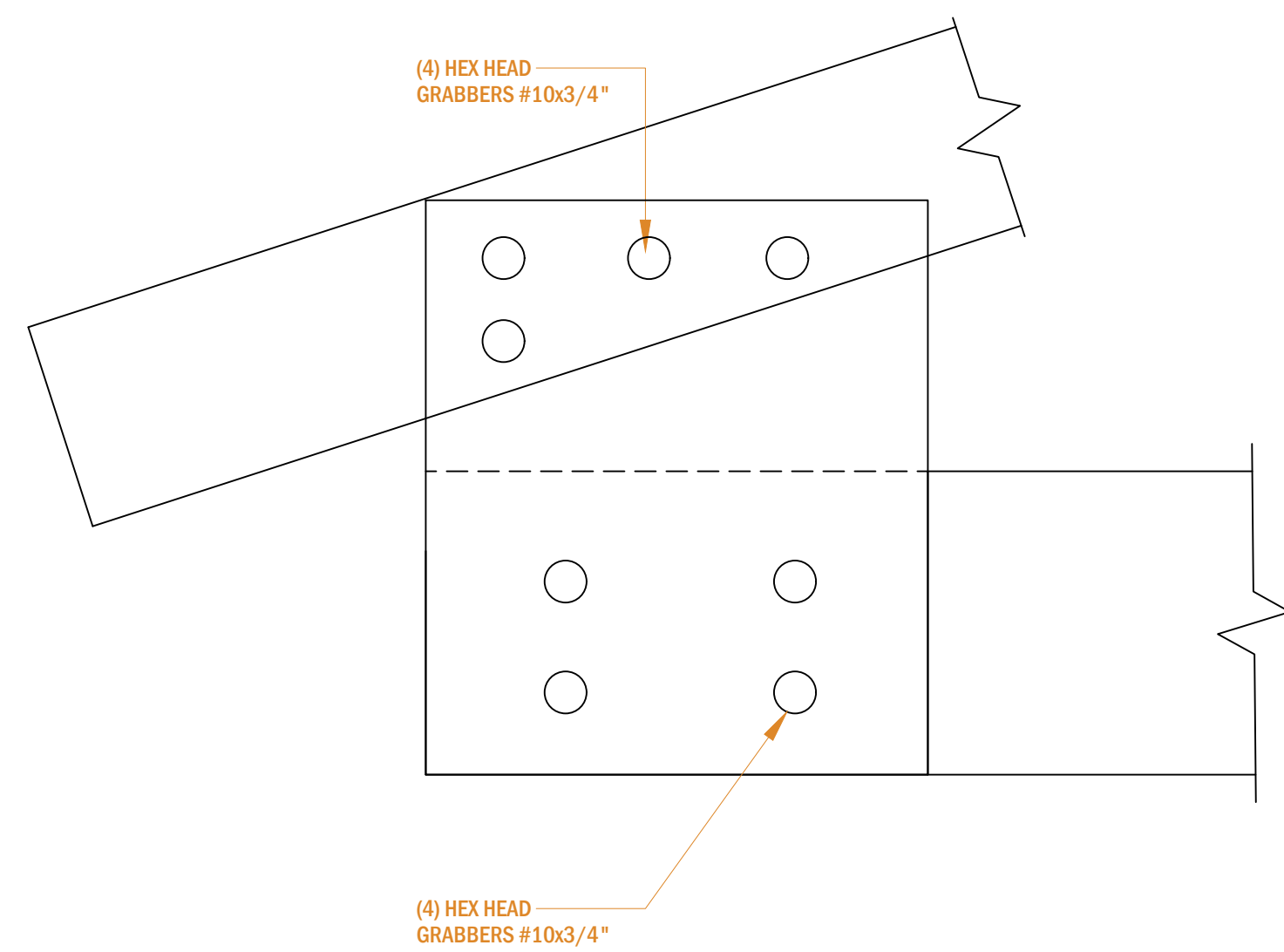
**SD-12.0**

DRAWN BY: JM  
CHECKED BY: PJ



### TRUSS CONNECTION KEY

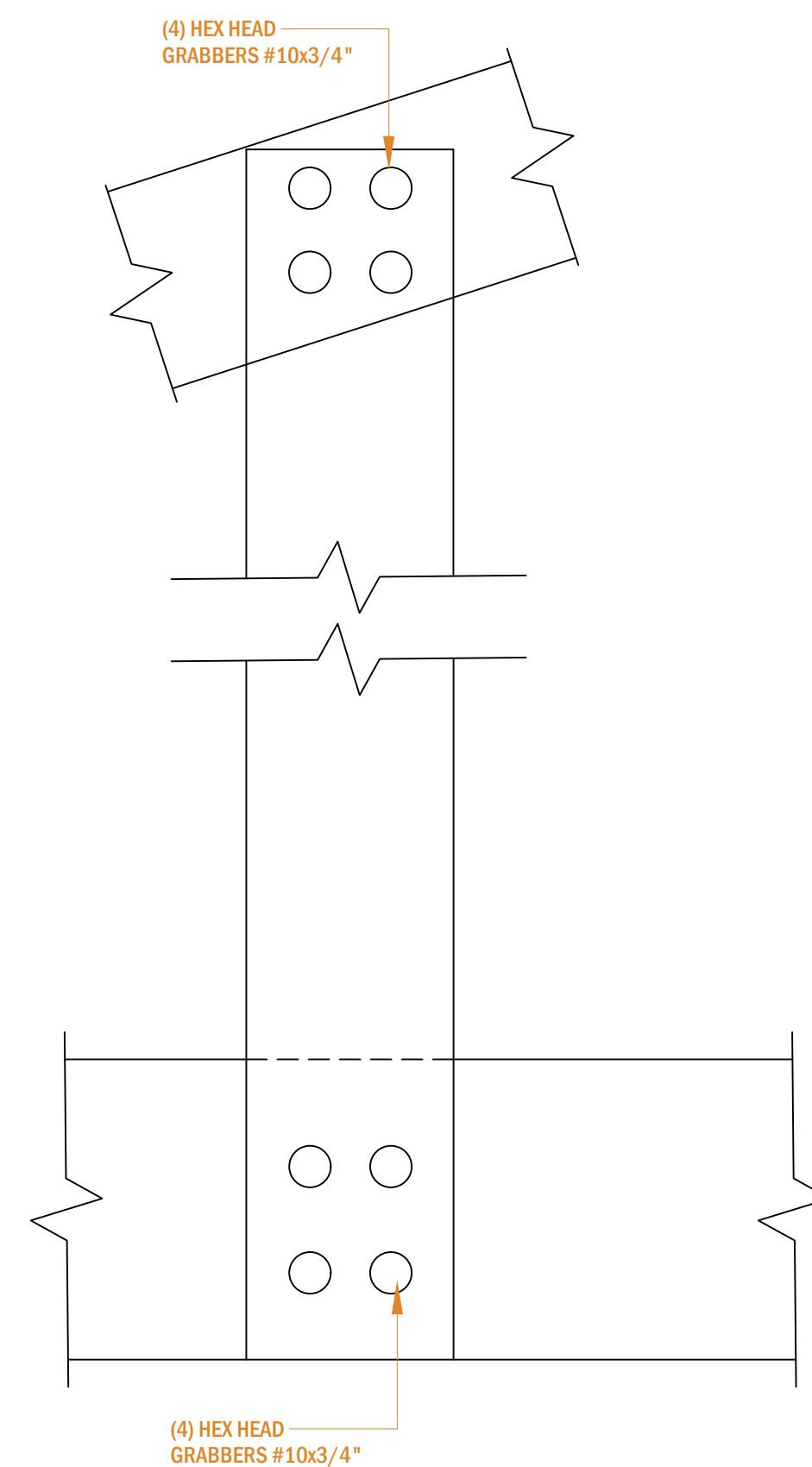
SCALE: 1-1/2" = 1'-0"



1

### TRUSS CONNECTION 1

SCALE: 6" = 1'-0"



2

### TRUSS CONNECTION 2

SCALE: 6" = 1'-0"

2023.03.30

PROJECT:

### SHOP DWGS FOR EXTERIOR ARCADE

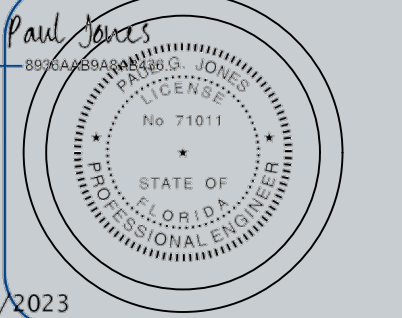
130 RUBY RED PLACE FC,  
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NOTES:

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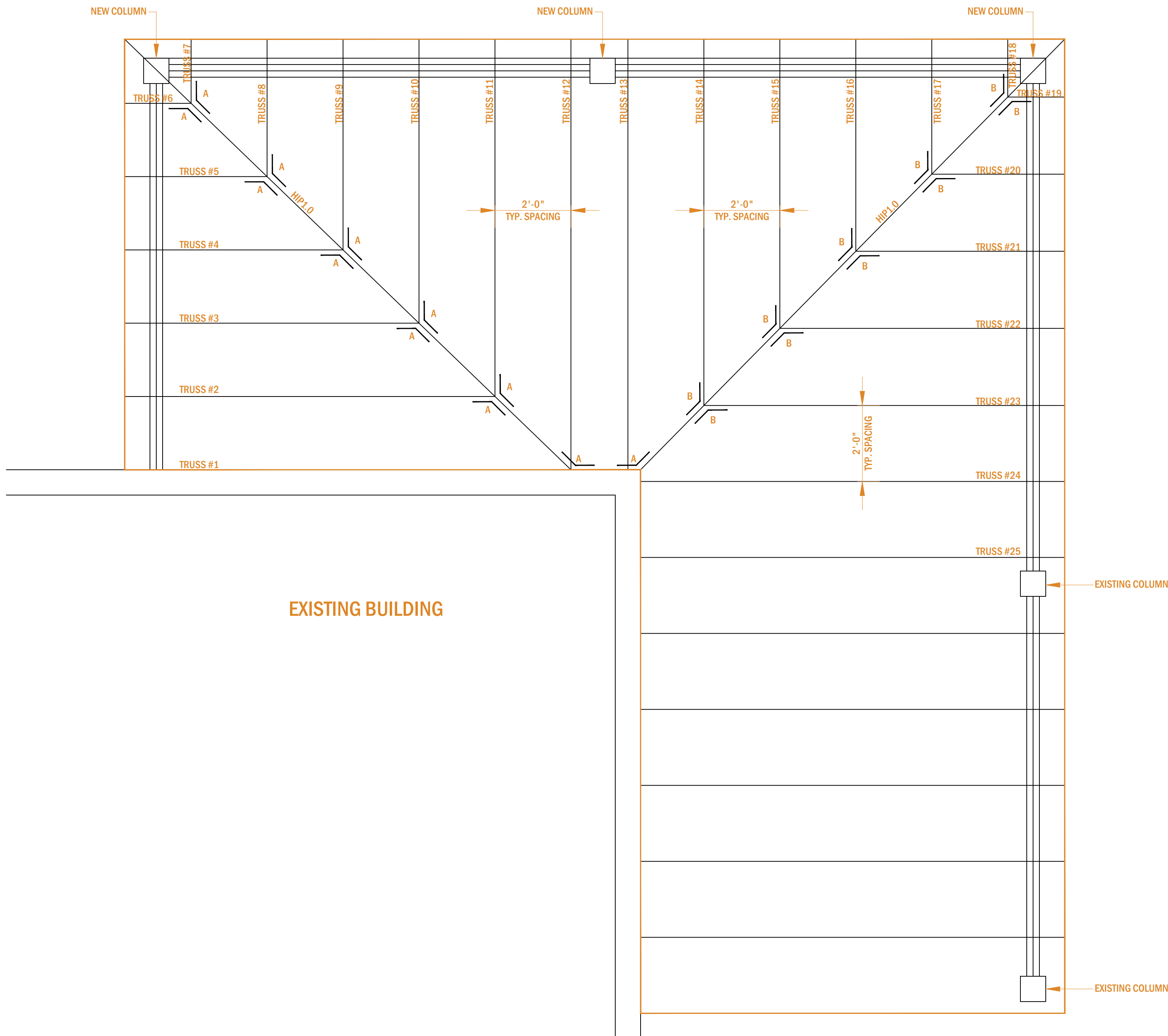
PROFESSIONAL ENGINEER SEAL  
STATE OF FLORIDA

### TRUSS 18 & 19 CONNECTIONS

SCALE: AS NOTED

# SD-12.1

DRAWN BY: JM  
CHECKED BY: PJ



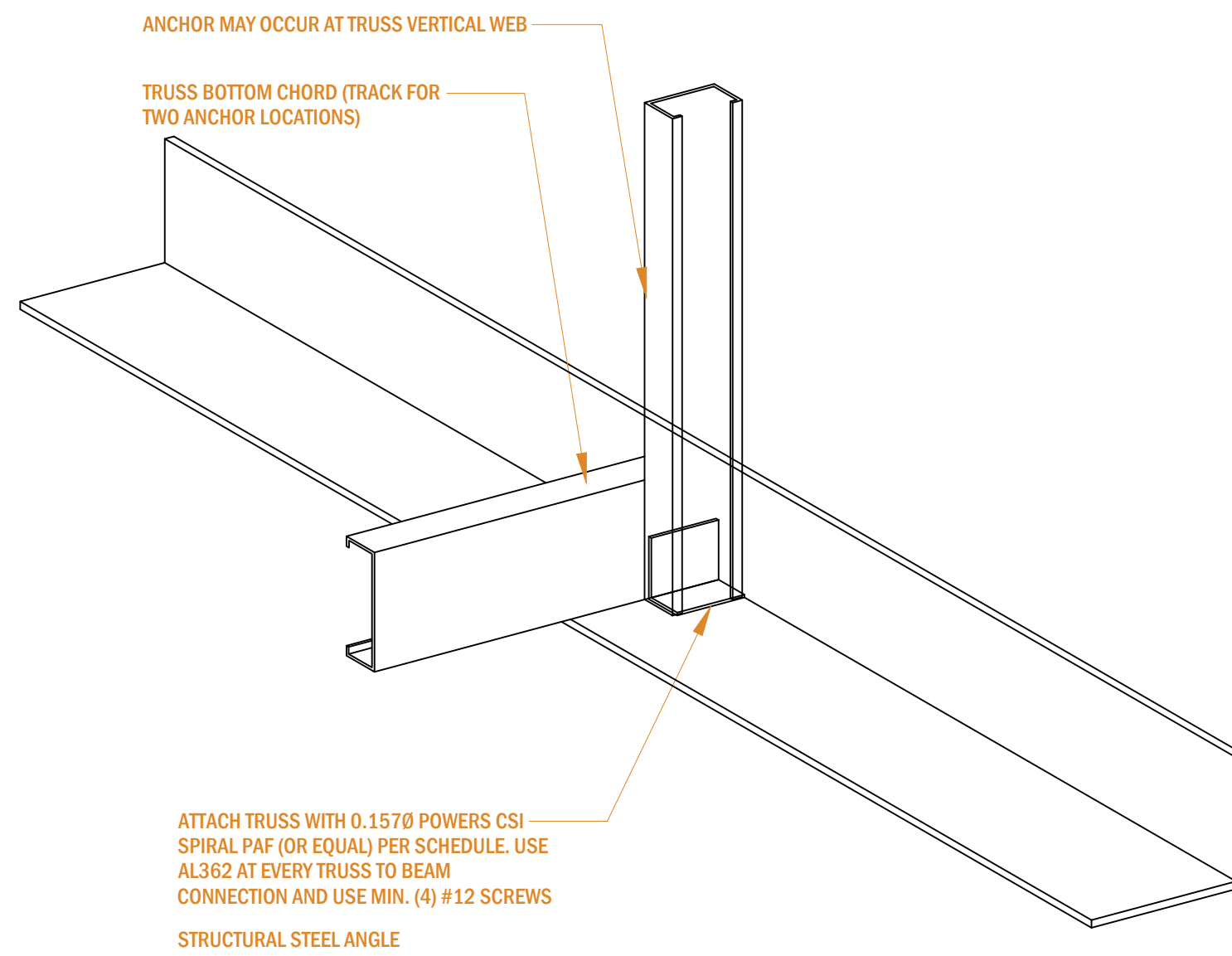
EXISTING BUILDING

EXISTING COLUMN

EXISTING COLUMN

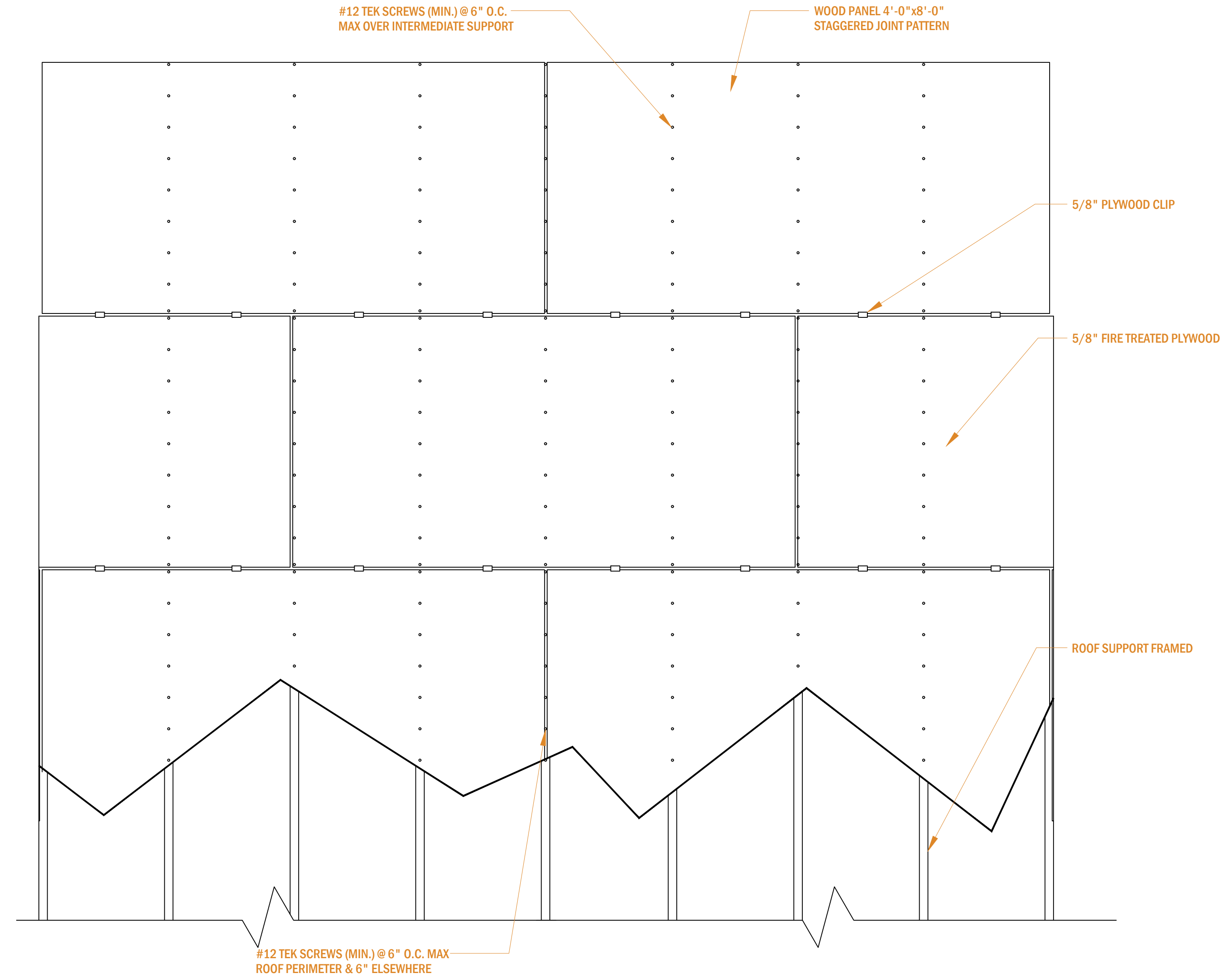
# 1 PARTIAL ROOF TRUSS PLAN

SCALE: 1/2" = 1'-0"



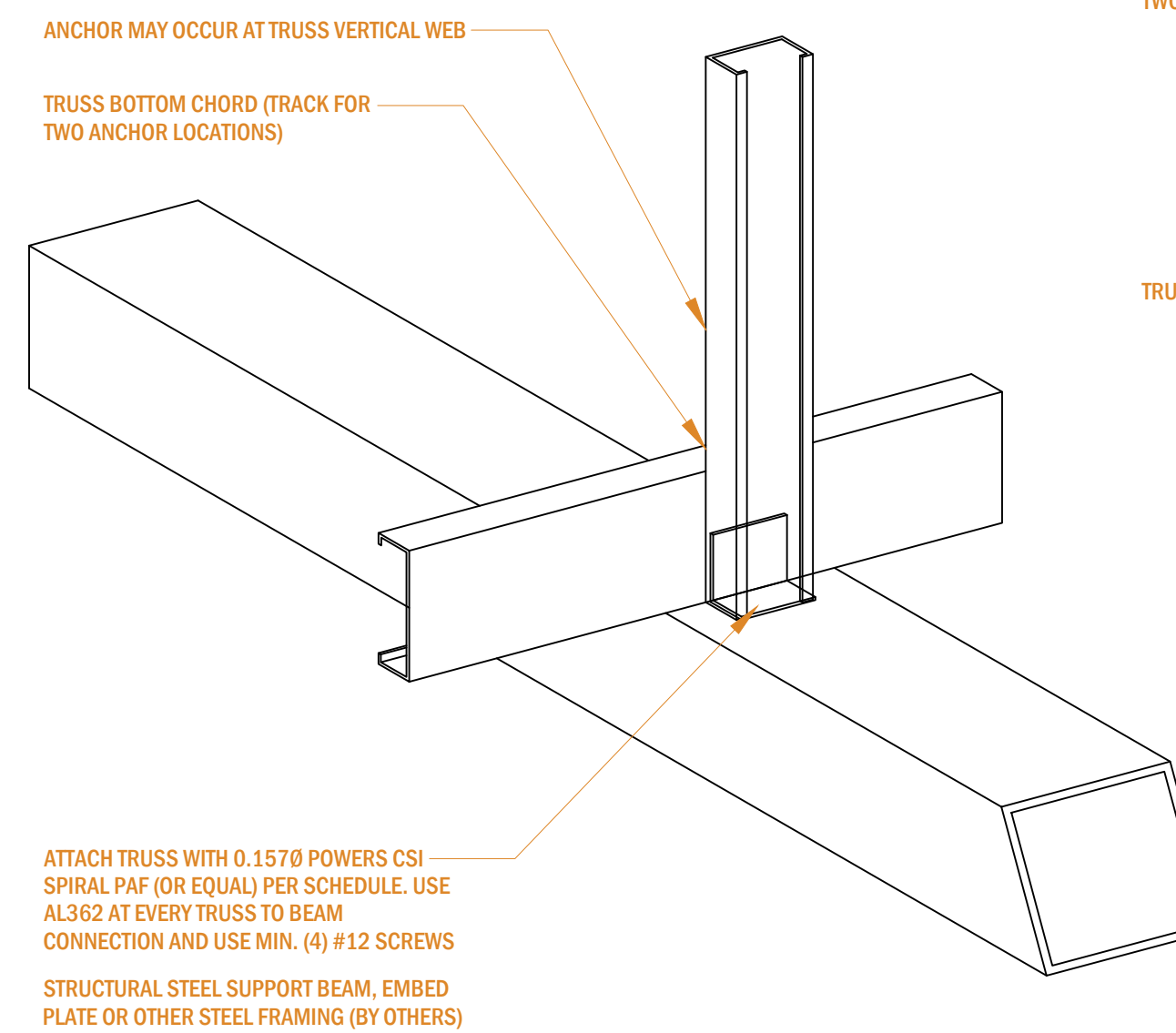
# 4 ANGLE TO TRUSS CLIP CONNECTION

SCALE: N.T.S.



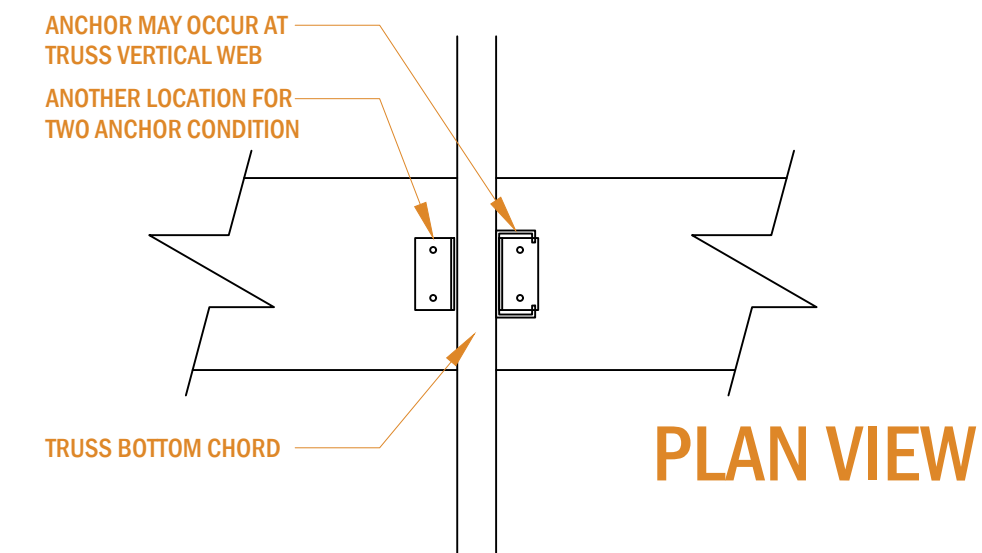
# 2 PLYWOOD ATTACHMENT (TYP.)

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

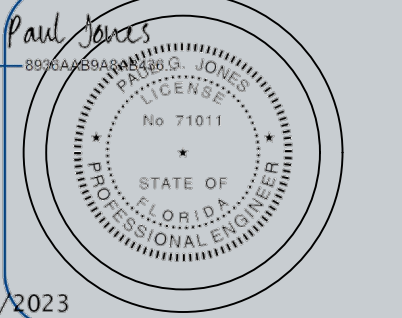


# 3 STEEL TO TRUSS CLIP CONNECTION

SCALE: N.T.S.

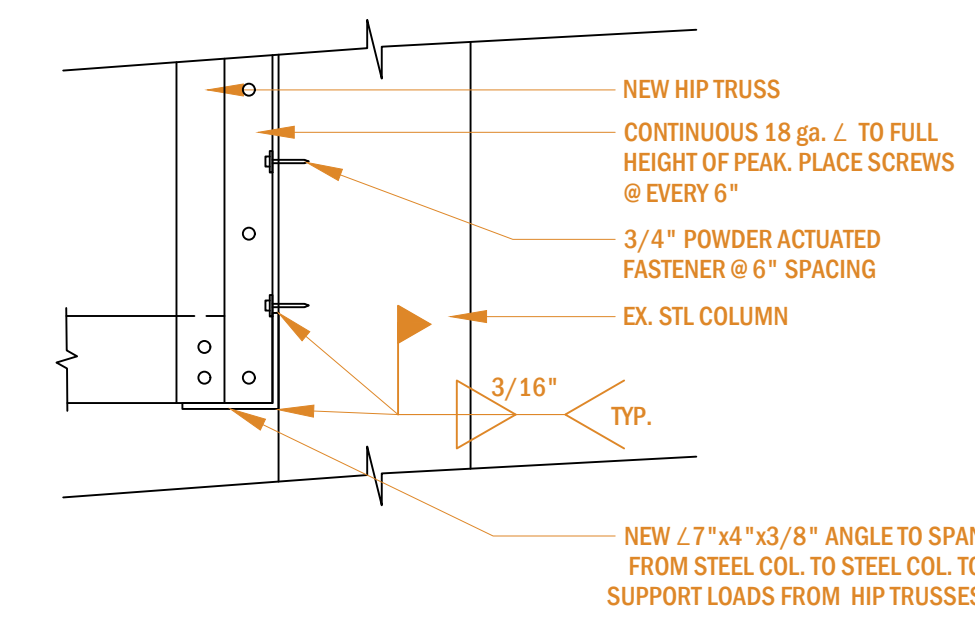
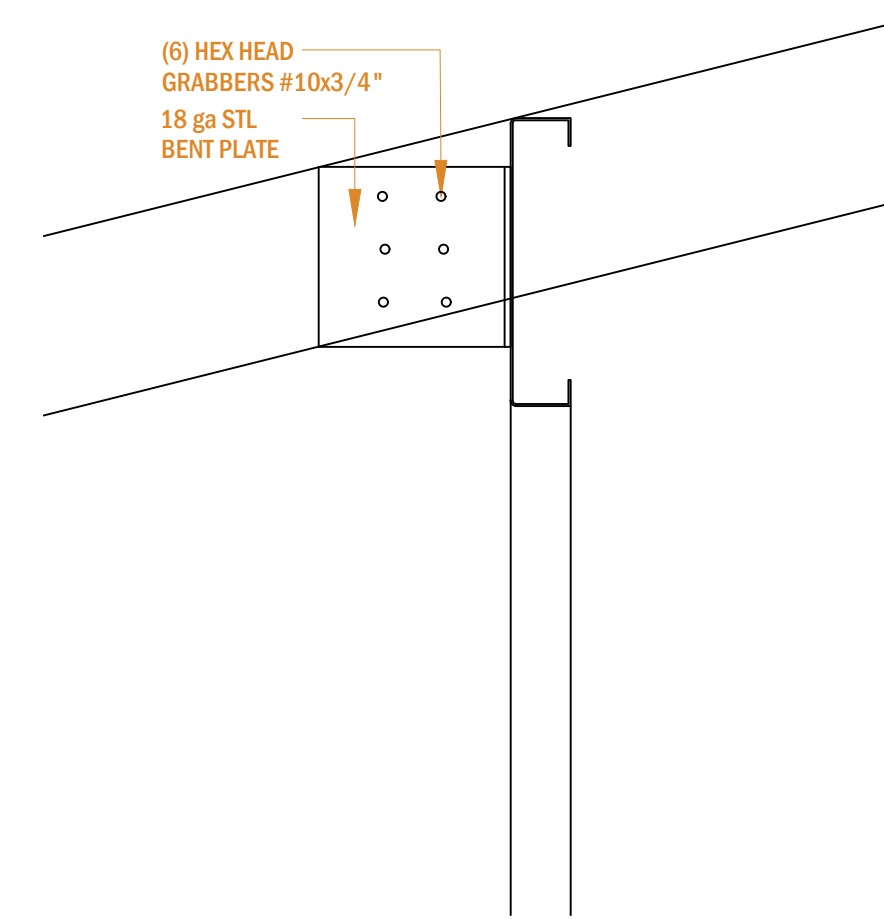
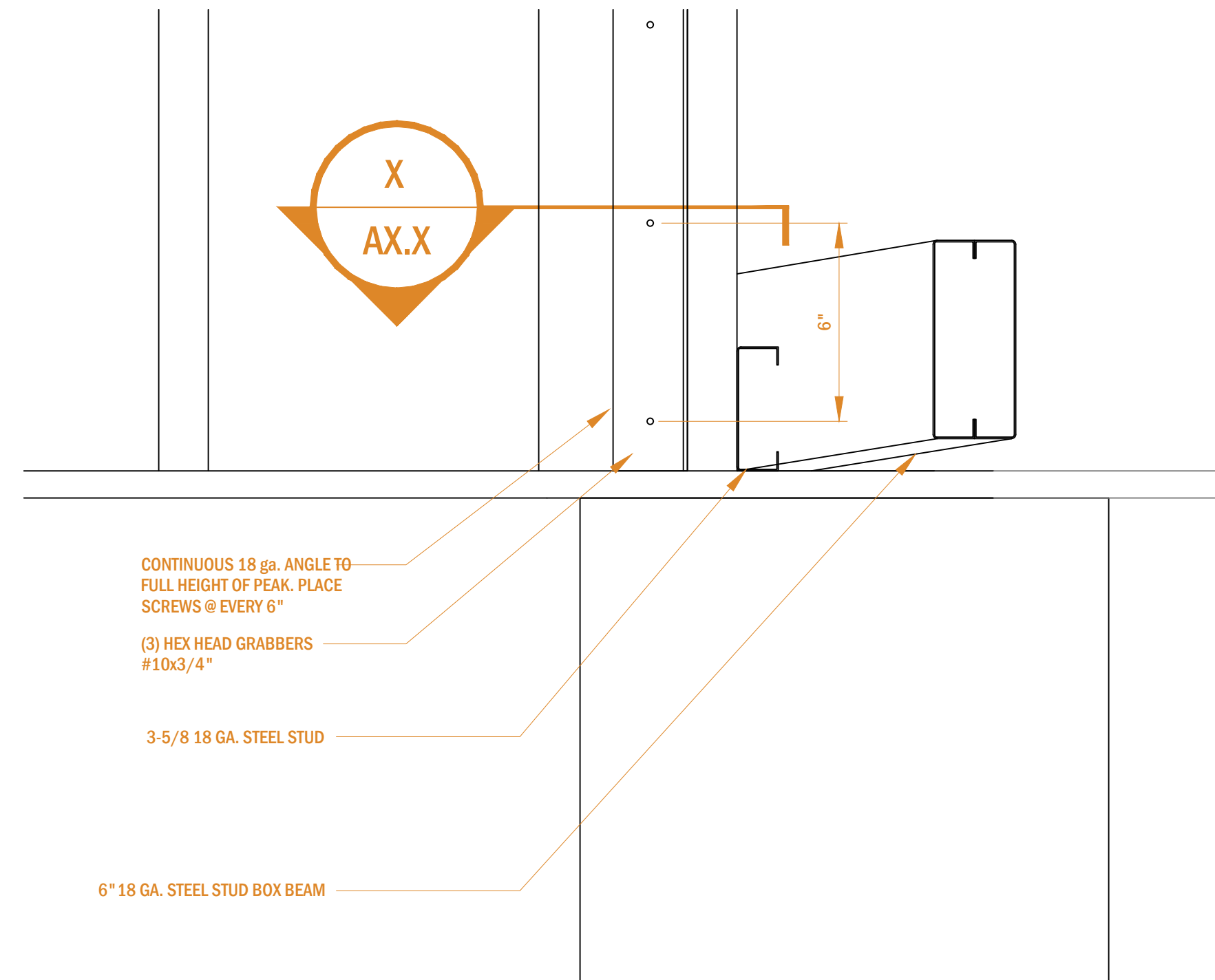
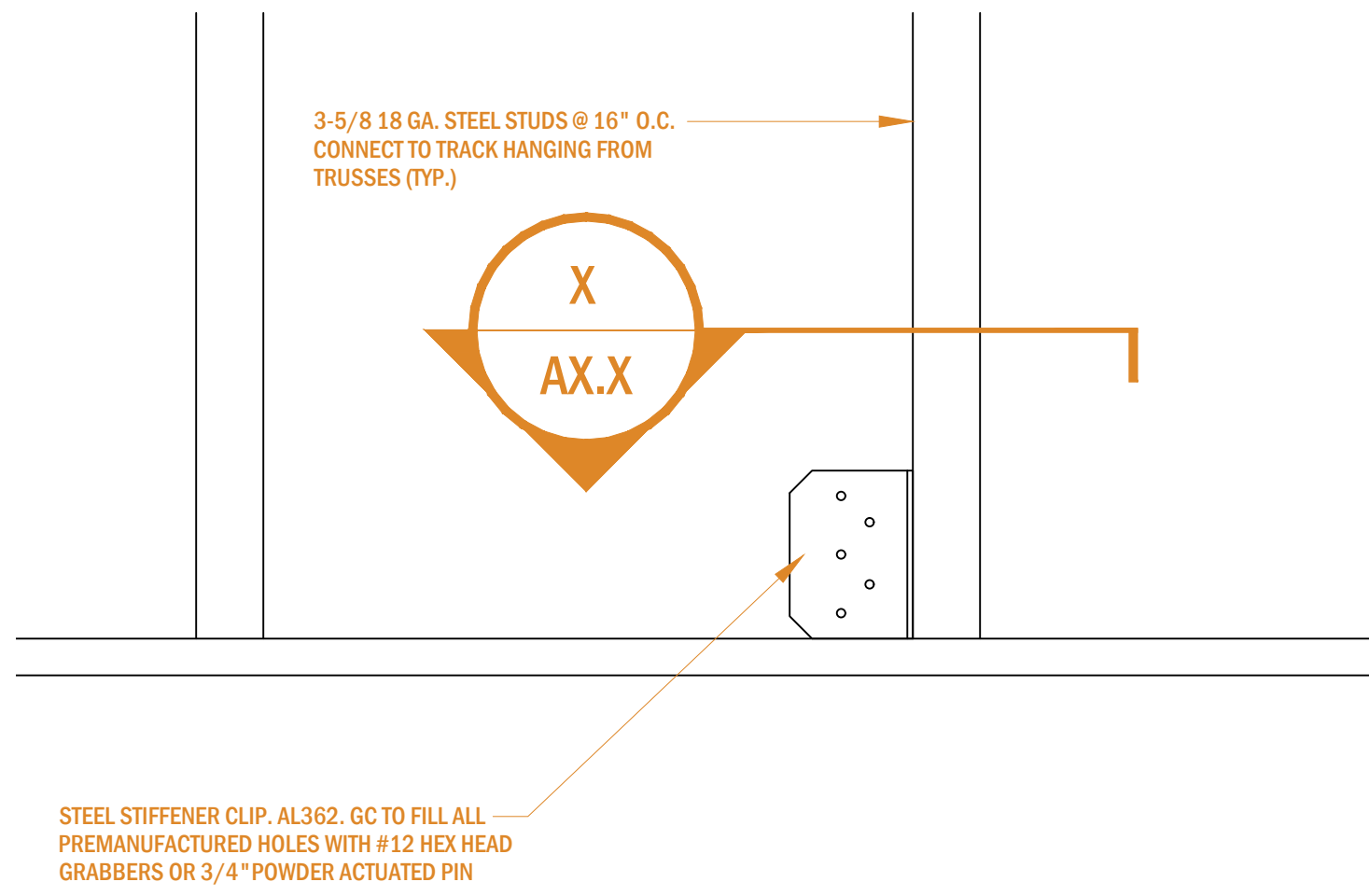


## SHOP DWGS FOR EXTERIOR ARCADE



## PARTIAL ROOF TRUSS PLAN

# SD-13.0

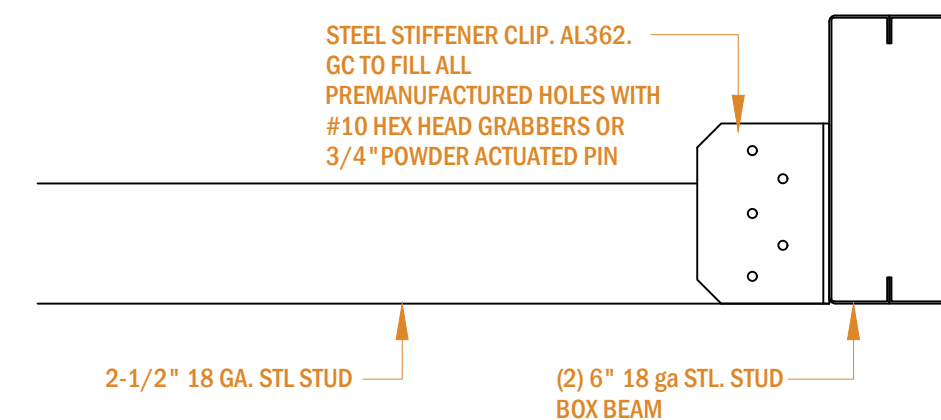
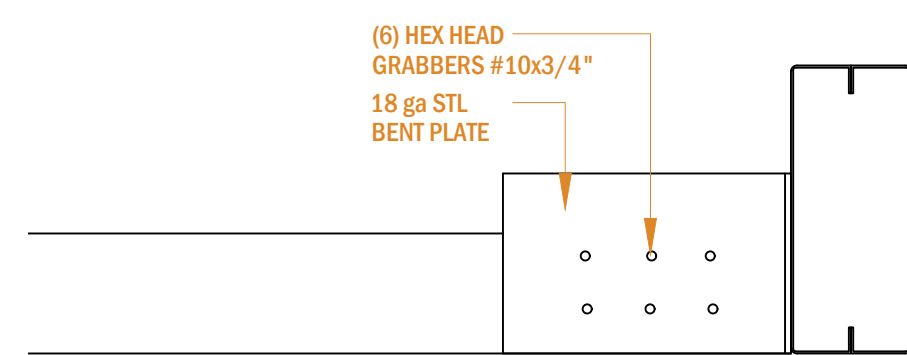


**1 TRUSS TO WALL CONNECTION**  
SCALE: 3" = 1'-0"

**2 TRUSS TO WALL CONNECTION**  
SCALE: 3" = 1'-0"

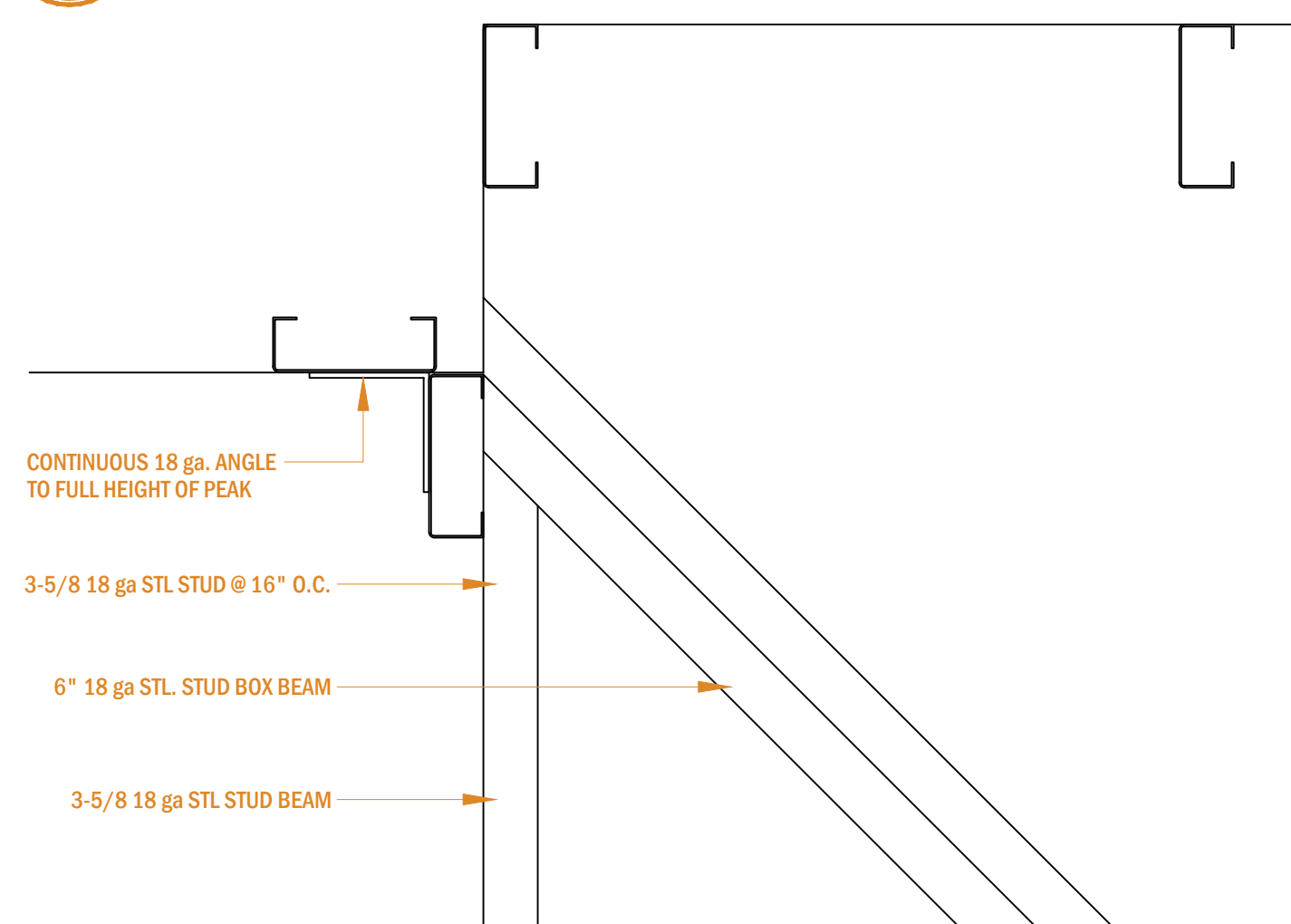
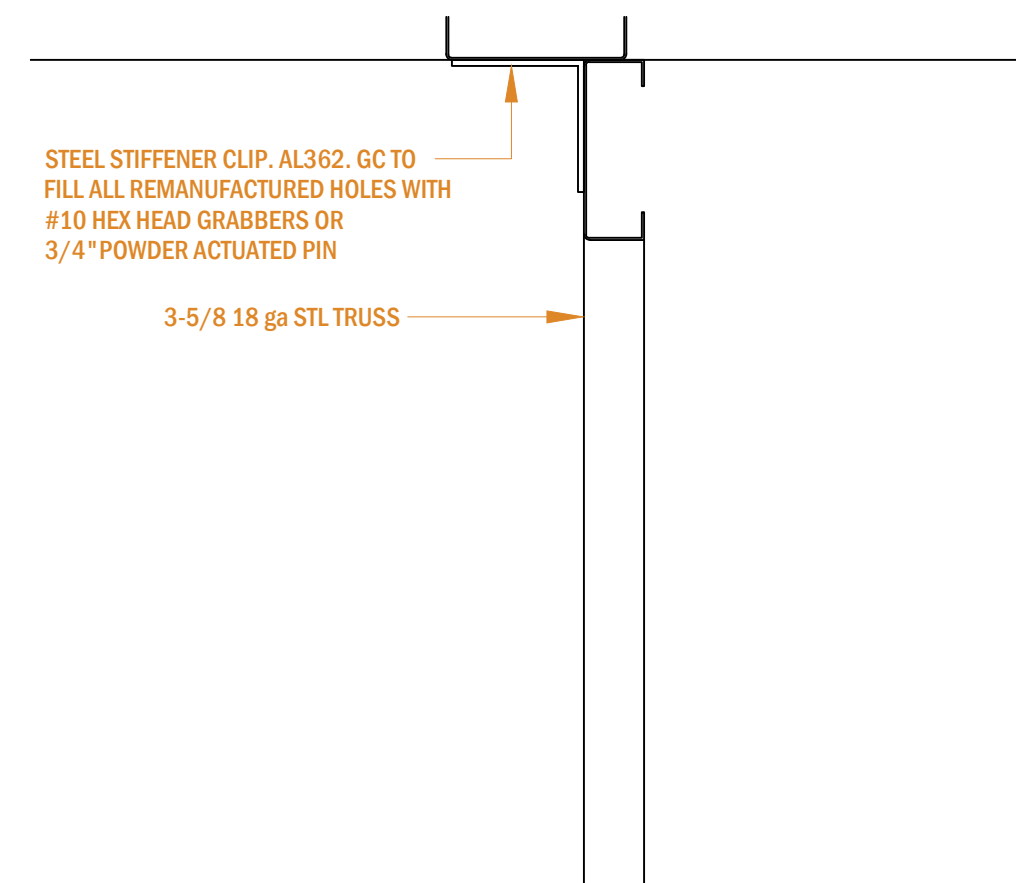
**3 TRUSS TO GIRDER TYP. CONNECTION**  
SCALE: 3" = 1'-0"

**4 HIP TRUSS TO WALL ANGLE CONNECTION**  
SCALE: 1-1/2" = 1'-0"



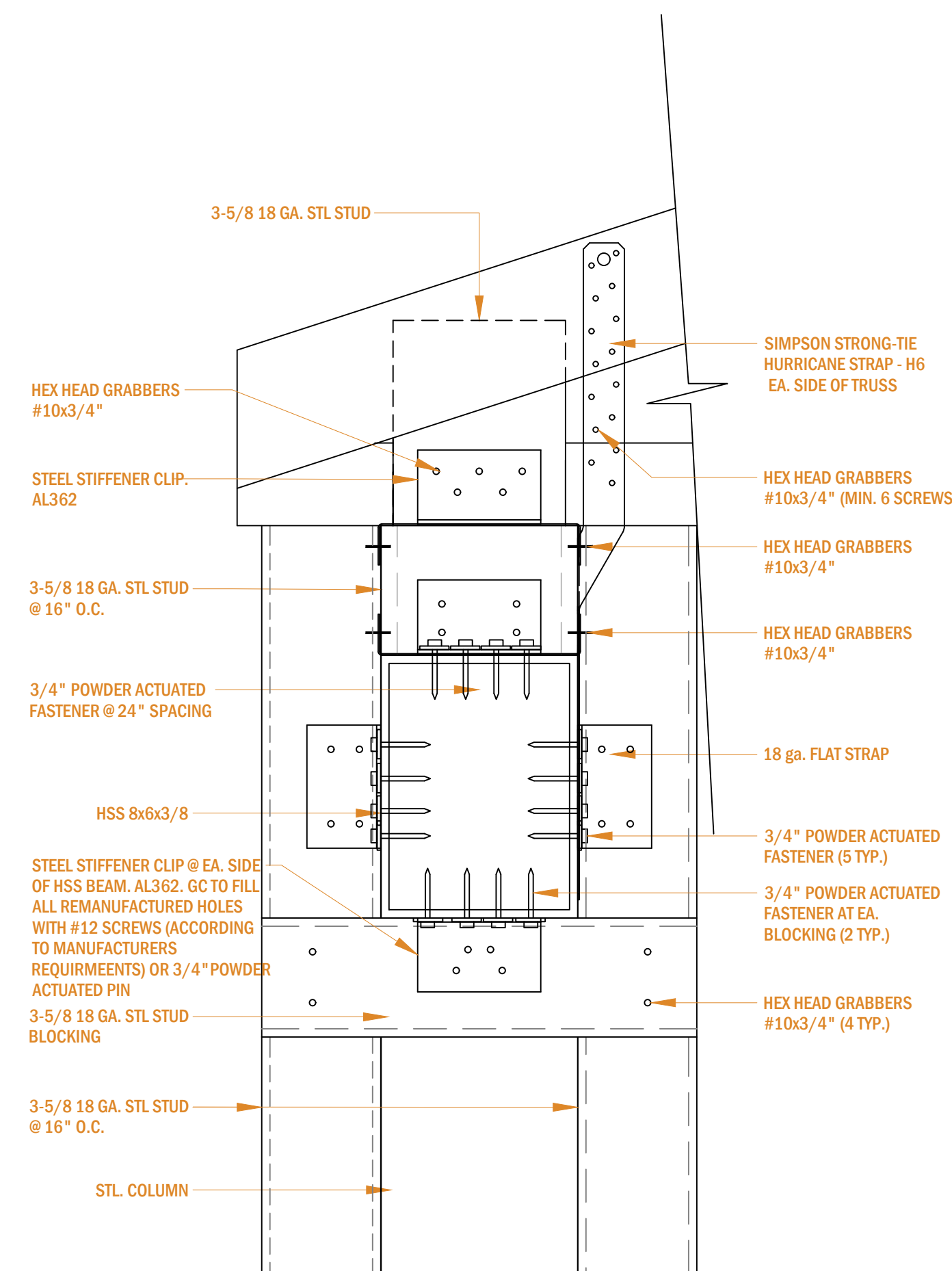
**5 HIP TRUSS TO TRUSS CONNECTION - TYPE 'A'**  
SCALE: 3" = 1'-0"

**6 HIP TRUSS TO TRUSS CONNECTION - TYPE 'B'**  
SCALE: 3" = 1'-0"

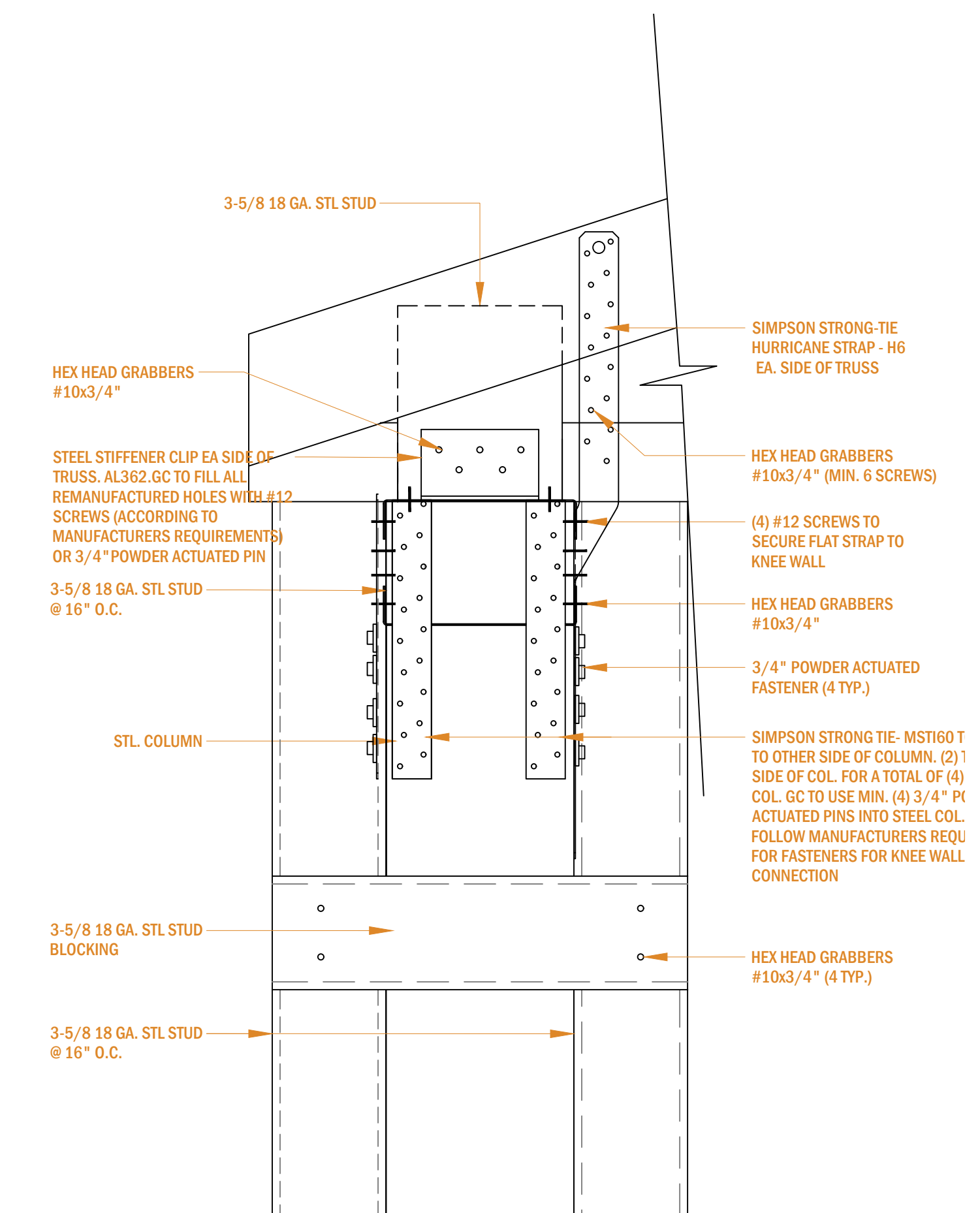


**7 TRUSS CONNECTION - PLAN VIEW**  
SCALE: 3" = 1'-0"

**7 HIP BEAM CONNECTION - PLAN VIEW**  
SCALE: 3" = 1'-0"



**8 ROOF TRUSS HOLD-DOWN @ ARCADE**  
SCALE: 3" = 1'-0"



**8 ROOF TRUSS HOLD-DOWN @ COL.**  
SCALE: 3" = 1'-0"

2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

130 RUBY RED PLACE FC, WINTER GARDEN, FL 34787

DATE: 03/30/2023

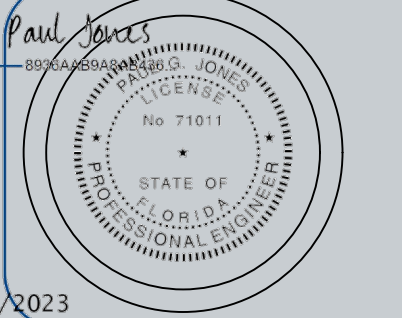
PROJECT NO.: 23-0004

REVISION DATE

GENERAL REV. 5/3/2023

NOTES:

DocuSigned by:



5/17/2023

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**TYP. ROOF ASSEMBLY CONNECTION DETAILS**

SCALE: AS NOTED

**SD-14.0**

DRAWN BY: JM  
CHECKED BY: PJ



3-5/8" STUD/TRACK PROPERTIES

Table with columns for Member, Design thickness, Yield strength, Area, Weight, and various Effective Properties (Ixx, Iyy, Sxx, Syy, etc.).

Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

Notes for Allowable Stud Shear and Allowable Track Shear, including references to AISI 1000-12 and IBC 2015.

ALLOWABLE STUD SHEAR (LBS)

Table showing allowable stud shear values for different member sizes and configurations.

Web-height-to-thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

ALLOWABLE TRACK SHEAR (LBS)

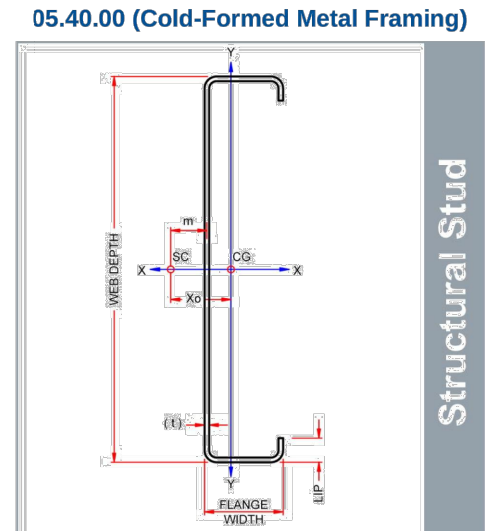
Table showing allowable track shear values for different member sizes and configurations.



Product Submittal Sheet

Technical Services: 888-437-3244 Engineering Services: 877-832-3206 Sales: 800-543-7140 clarkdietrich.com

Product category: S162 (1-5/8" Flange Structural Stud) Product name: 250S162-33 (33ksi, CP60) P - Punched 33mil (20ga) Coating: CP60 per AISI S240 Color coding: White



Geometric Properties: Web depth 2.500 in, Flange width 1.625 in, Stiffening lip 0.500 in, Design thickness 0.0346 in, Yield strength Fu 33 ksi, Ultimate Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis: Cross sectional area (A) 0.223 in², Moment of inertia for deflection (Ix) 0.236 in⁴, Section modulus (Sx) 0.189 in³, Radius of gyration (Ry) 0.859 in

Effective Section Properties, Strong Axis: Effective Area (Ae) 0.172 in², Moment of inertia for deflection (Ix) 0.180 in⁴, Allowable bending moment (Ma) 3.55 in-k, Allowable shear force in web (perforated section) 399 lb

Torsional Properties: St. Venant torsion constant (J x 1000) 0.989 in⁴, Warping constant (Cw) 0.146 in⁶, Distance from shear center to neutral axis (Xo) -1.470 in

Code Approvals & Performance Standards: AISI S100-16 - North American Specification for the Design of CFS Structural Members, AISI S240-15 - North American Standard for Cold-Formed Steel Structural Framing



1900 MARKET STREET PHILADELPHIA, PA 19103

PROJECT: 2023.03.30 SHOP DWGS FOR EXTERIOR ARCADE

DATE: 03/30/2023 PROJECT NO.: 23-0004 REVISION: DATE GENERAL REV. 5/3/2023

NOTES:

Sustainability Credits: For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.

CL-STRS © 12/22 ClarkDietrich

Connectors for Cold-Formed Steel Construction

HRS/ST/FHA/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

Straps are load rated and provide the correct thickness and number of fasteners the specifier is providing for compared with field fabricated straps.

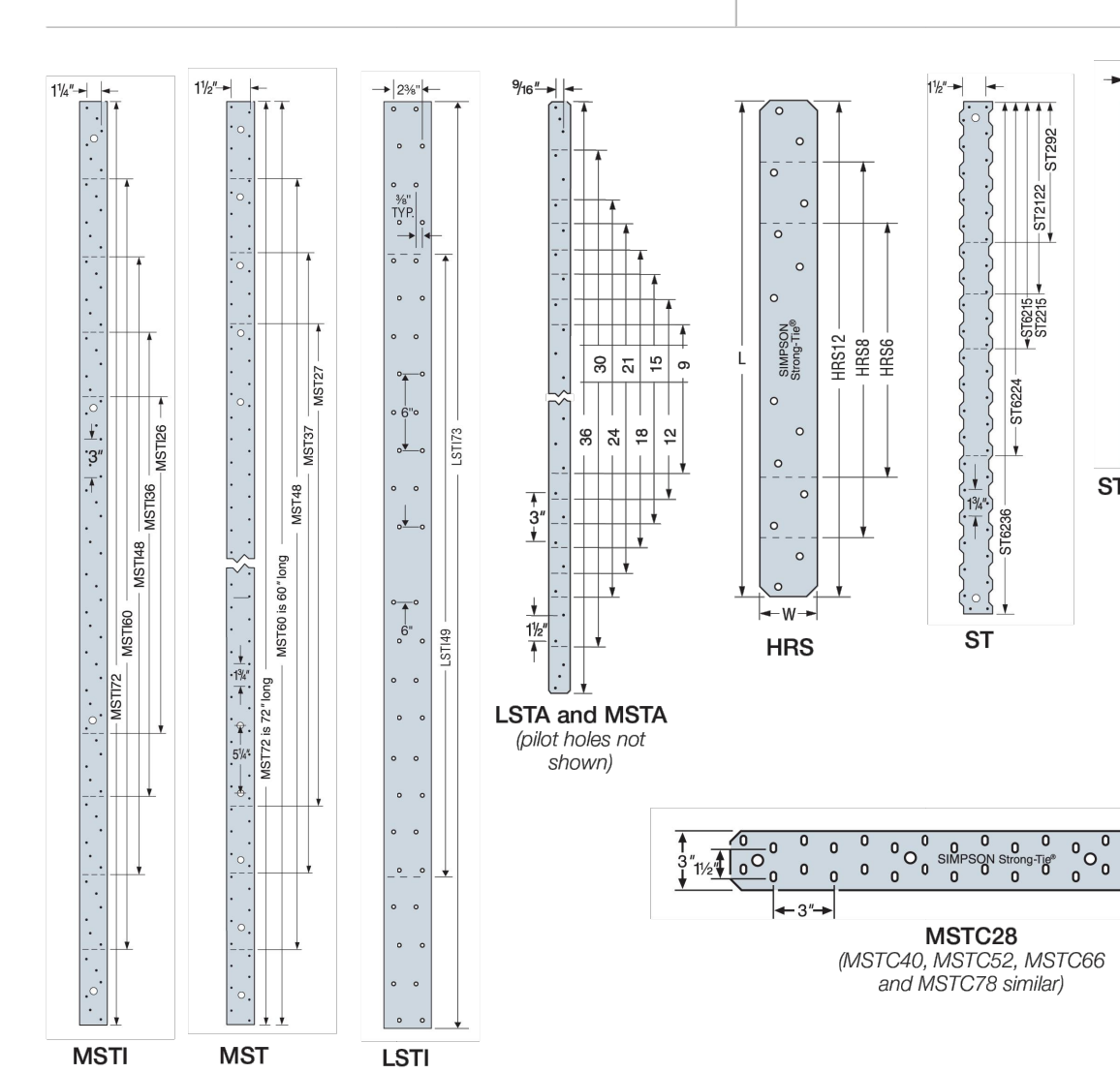


Table with columns for Model No., Connector Material Thickness, Dimensions (W, L), Bolts Quantity, Diameter, and Code Ref.

Connectors for Cold-Formed Steel Construction

HRS/ST/FHA/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

Codes: See p. 13 for Code Reference Key Chart

These products are available with additional corrosion protection. Additional products on this page may also be available with this option.

Table with columns for Model No., Connector Material Thick., Dimensions (W, L), Fasteners (Total), Allowable ASD Tension Load (Rt.), and Code Ref.

Connectors for Cold-Formed Steel Construction

HRS/ST/FHA/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

Codes: See p. 13 for Code Reference Key Chart

These products are available with additional corrosion protection. Additional products on this page may also be available with this option.

Table with columns for Model No., Connector Material Thick., Dimensions (W, L), Fasteners (Total), Allowable ASD Tension Load (Rt.), and Code Ref.

Connectors for Cold-Formed Steel Construction

HRS/ST/FHA/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

Codes: See p. 13 for Code Reference Key Chart

These products are available with additional corrosion protection. Additional products on this page may also be available with this option.

Table with columns for Model No., Connector Material Thick., Dimensions (W, L), Fasteners (Total), Allowable ASD Tension Load (Rt.), and Code Ref.



Product Submittal Sheet

Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

09.22.16 (Non-Structural Metal Framing)

1-1/2" Furring / Hat Channel 150F125-33 33mil (20ga ST)

Depth: 1.500 in Design Thickness: 0.0346 in Yield stress, Fy: 33ksi Min. steel thickness: 0.0329 in Ultimate, Fu: 45ksi

Table with columns for Gross Section Properties of Full Section, Strong Axis: Cross sectional area (A) 0.174 in², Member weight per foot of length 0.590 lb/ft, Moment of inertia (Ix) 0.056 in⁴, Radius of gyration (Ry) 0.566 in, Gross moment of inertia (Iy) 0.093 in⁴, Gross radius of gyration (Ry) 0.733 in

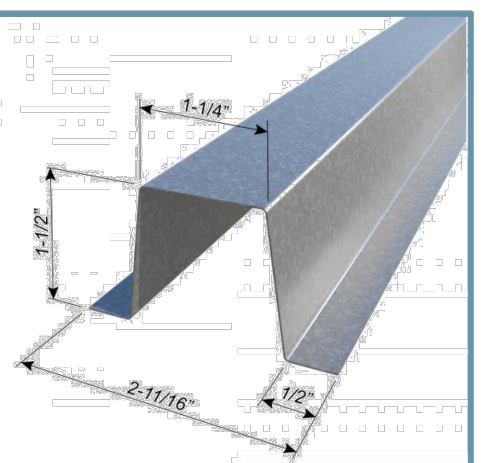
Effective Section Properties, Strong Axis: Moment of inertia for deflection (Ix) 0.056 in⁴, Section modulus (Sx) 0.071 in³, Allowable bending moment (Ma) 117.31 ft-lb, Allowable shear force (Va) 474 lb

Product Data & Ordering Information: Coating: CP60 per ASTM C955 (G90 Available) Stock length: 10'-0" and 12'-0" long pieces Packaging: 10 pieces per bundle - 440 pieces per pallet Packaging weight: 54 lbs/bundle

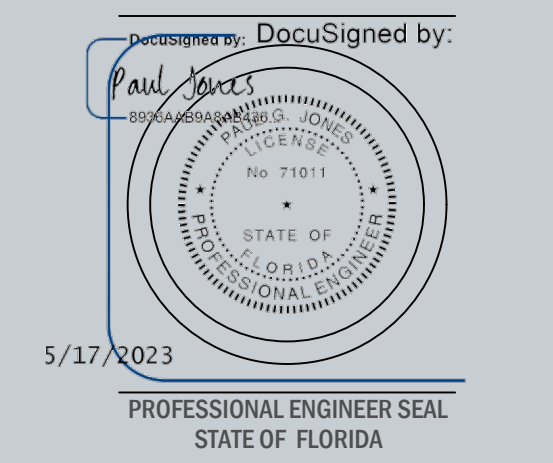
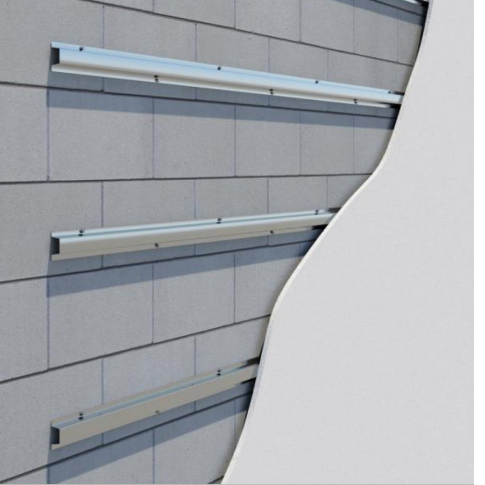
Table showing Furring / Hat Channel Allowable Ceiling Spans (Deflection: L/360) for different loads and spacings.

Code Approvals & Performance Standards: AISI S100-16 North American Specification for the Design of CFS Structural Members, AISI S240-15 North American Standard for Cold-Formed Steel Structural Framing

Sustainability Credits: For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.



Used in framing applications: Furring for walls & ceilings, Furring out masonry walls, Framing for drop ceilings assemblies



SPECIFICATIONS

SCALE: AS NOTED SD-16.0 DRAWN BY: JM CHECKED BY: PJ

**Wind Load Generator**

**Wind Generation Input**

Wind Code ASCE 7-16 Directionality Factor,  $K_d$  0.85  
 Wind Speed, V 139 mph Gust Stiffness Rigid  
 Exposure Category C Ground Elevation Factor,  $K_g$  1  
 Base Elevation 0 ft

Topographic Effects

Factor  $K_1$  0 Factor  $K_2$  0 Factor  $K_3$  0

**Wind Generation Detail Results**

Exposure Constant Alpha 9.5  $K_{zt}$  1 g  
 Exposure Constant,  $z_g$  900 h 4 ft  
 Gust Effect Factor, G 0.85  $K_h$  0.849 g  
 Windward  $C_p$  0.8  $q_h$  0.036 ksf

**Wind Generation Floor Geometry Results**

Floor Level	Height (ft)	Kz	Width (Z) (ft)	Length (X) (ft)	Leeward Cp (Z)	Leeward Cp (X)
Diaphragm 1	13	0.849	0	0	0.2	0.2

**Wind Generation Floor Force Results**

Floor Level	qz (ksf)	Windward Pressure (ksf)	Leeward Pressure (Z) (ksf)	Leeward Pressure (X) (ksf)	Force (Z) (kips)	Force (X) (kips)
Diaphragm 1	0.036	0.024	0.006	0.006	0	0

**Wind Load Generator**

**Wind Generation Input**

Wind Code ASCE 7-16 Directionality Factor,  $K_d$  0.85  
 Wind Speed, V 139 mph Gust Stiffness Rigid  
 Exposure Category C Ground Elevation Factor,  $K_g$  1  
 Base Elevation 0 ft

Topographic Effects

Factor  $K_1$  0 Factor  $K_2$  0 Factor  $K_3$  0

**Wind Generation Detail Results**

Exposure Constant Alpha 9.5  $K_{zt}$  1 g  
 Exposure Constant,  $z_g$  900 h 4 ft  
 Gust Effect Factor, G 0.85  $K_h$  0.849 g  
 Windward  $C_p$  0.8  $q_h$  0.036 ksf

**Wind Generation Floor Geometry Results**

Floor Level	Height (ft)	Kz	Width (Z) (ft)	Length (X) (ft)	Leeward Cp (Z)	Leeward Cp (X)
Diaphragm 1	13	0.849	0	0	0.2	0.2

**Wind Generation Floor Force Results**

Floor Level	qz (ksf)	Windward Pressure (ksf)	Leeward Pressure (Z) (ksf)	Leeward Pressure (X) (ksf)	Force (Z) (kips)	Force (X) (kips)
Diaphragm 1	0.036	0.024	0.006	0.006	0	0



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2023.03.30

PROJECT:

**SHOP DWGS FOR EXTERIOR ARCADE**

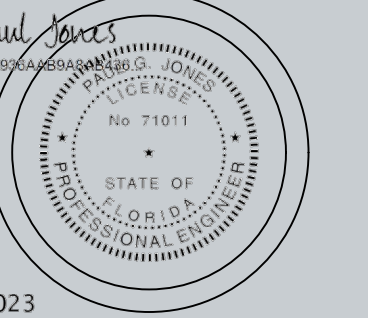
130 RUBY RED PLACE FC,  
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5/17/2023

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STATE OF FLORIDA

**CALCULATIONS**

SCALE: AS NOTED

**SD-17.0**

DRAWN BY: JM  
CHECKED BY: PJ