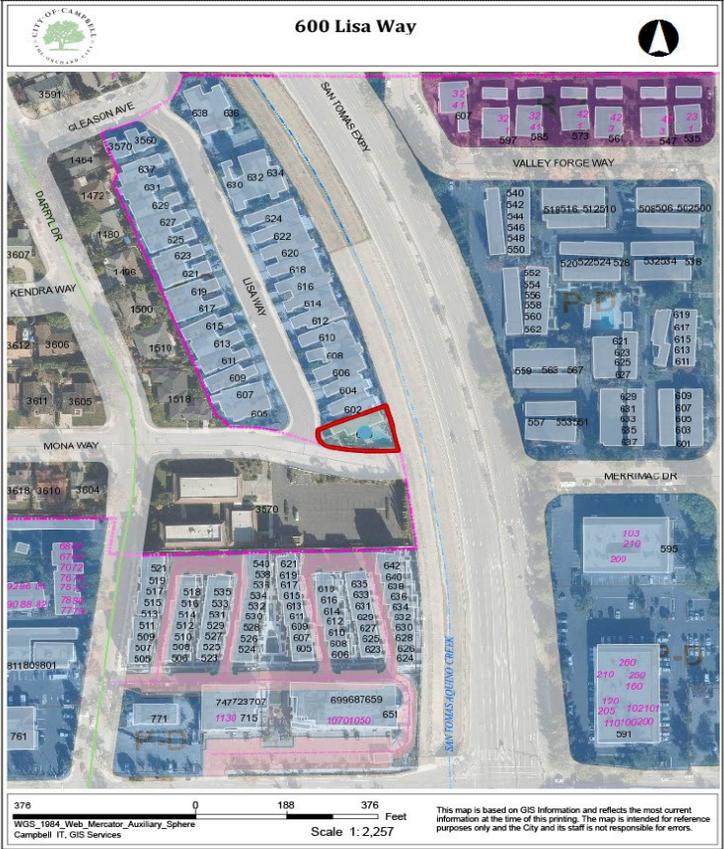
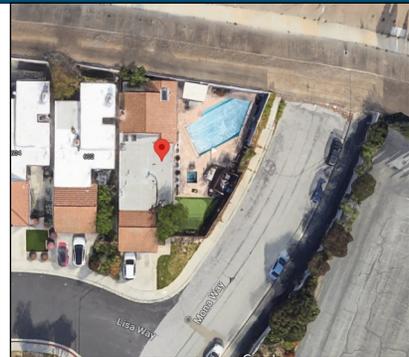
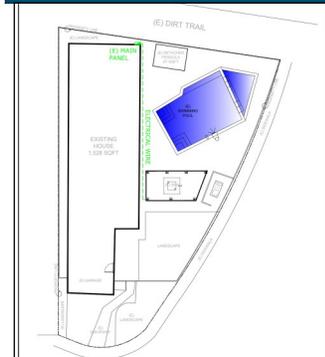


Location of Proposed Project



City of Campbell
 70 North First Street
 Campbell, CA 95008 -1423

Project Image



Notice of Decision on Proposed Project

Dear Campbell Resident,

April 28, 2023

The Community Development Director will be rendering a decision on the following project.

Project Address: 600 Lisa Way

Zoning | Area Plan: P-D | N/A

Neighborhood Association(s): STACC

File No: PLN-2023-14

APN: 307-38-021

Applicant: AA Permit and Design

Property Owner: Yupei Cheng

Application Type: Administrative Planned Development Permit

Project Planner: Larissa Lomen, Assistant Planner

Email Contact: larissal@campbellca.gov

Phone Contact: (408) 866-2144

Project Description:

To allow the construction of a 500 square-foot accessory structure (pergola) on a site developed with a single-family dwelling.

Comment Period:

You have the opportunity to provide comment prior to the Director's decision.

The ten-day comment period for this application begins on **May 1, 2023**. If you have comments regarding this application must be submitted in writing (including email) to the Planning Division before 5:00 p.m. on **May 10, 2023**. The Director will then consider all comments submitted within this time period prior to a decision. No additional notice will be provided.

Decision by the Community Development Director is final unless an appeal is received in writing within 10 days of the decision or submitted in writing to the City of Campbell Community Development Department, 70 N. First Street, Campbell, prior to the end of the appeal period. If you have questions or comments regarding this application you may contact the Project Planner.



- City of Campbell -
Community Development Department
70 N. First Street, Campbell CA 95008
(408)866-2140 | planning@campbellca.gov

Note: Applications may change after initial application submittal.
To view the project plans, please scan the QR code.

**Asistencia en Español disponible,
Simplemente marque (408) 866-2140 y pida traduccion en Español



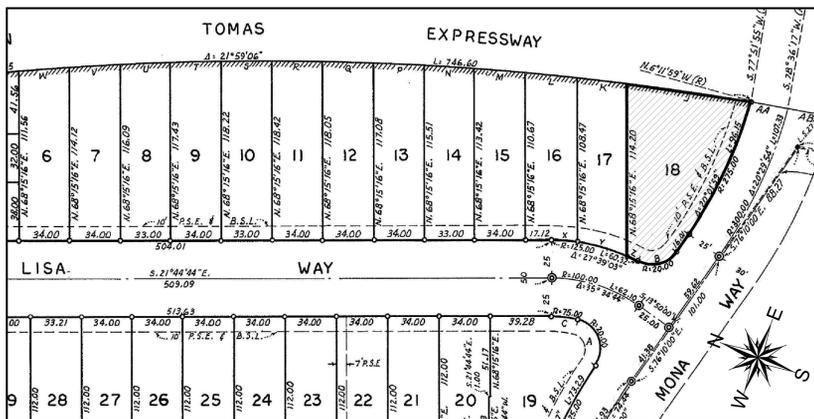
PERSPECTIVE



VICINITY MAP



ASSESSOR MAP



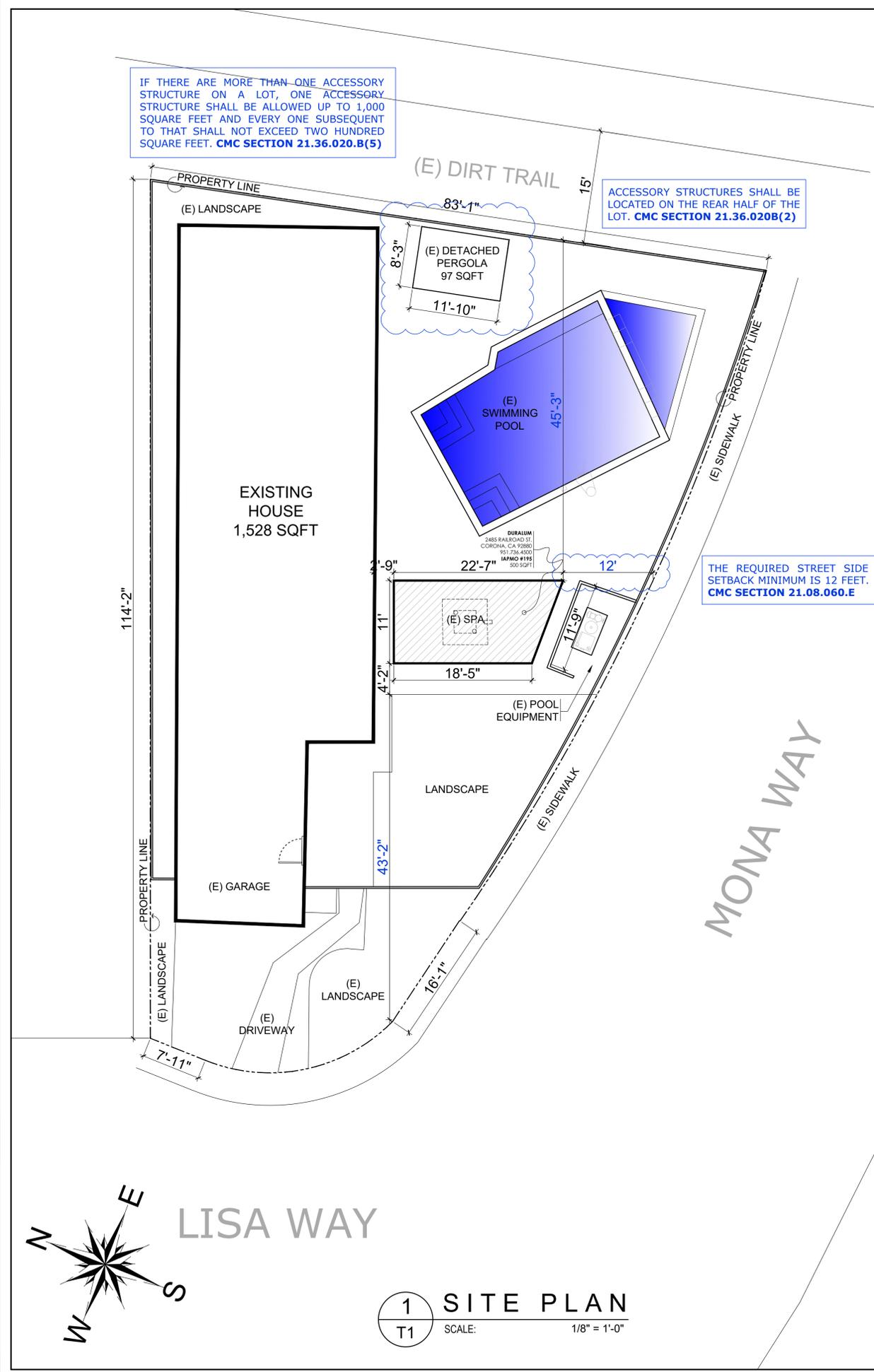
SHEET INDEX

NO.	SHEET CONTENT
T1	SITE PLAN
A1	PLAN, ROOF PLAN, ELEVATIONS, SECTION
A2	ELECTRICAL PLAN, EXISTING PHOTOS

IF THERE ARE MORE THAN ONE ACCESSORY STRUCTURE ON A LOT, ONE ACCESSORY STRUCTURE SHALL BE ALLOWED UP TO 1,000 SQUARE FEET AND EVERY ONE SUBSEQUENT TO THAT SHALL NOT EXCEED TWO HUNDRED SQUARE FEET. CMC SECTION 21.36.020.B(5)

ACCESSORY STRUCTURES SHALL BE LOCATED ON THE REAR HALF OF THE LOT. CMC SECTION 21.36.020B(2)

THE REQUIRED STREET SIDE SETBACK MINIMUM IS 12 FEET. CMC SECTION 21.08.060.E



PROJECT CONTACT

OWNER **YUPEI CHENG**
600 LISA WAY
CAMPBELL, CA 95008
a.gentleman@gmail.com

DESIGNER **AMIT AVIVI**
AMIT AVIVI PERMIT & DESIGN
6136 WATER LILY COMMON
LIVERMORE, CA 94551
aapermitanddesign@g.com
(925)758-2200

ENGINEER

PROJECT DATA

PROJECT ADDRESS 600 LISA WAY
CAMPBELL, CA 95008
APN 30738021
LOT SIZE 7,283 SQFT
EXISTING HOUSE 1,528 SQFT
PERGOLA AREA 500 SQFT
LOT COVERAGE 7%
ZONING SINGLE FAMILY RES
OCCUPANCY GROUP VB
CONSTRUCTION TYPE 1
NO. OF STORIES 1
FIRE SPRINKLER 1977
YEAR BUILT

SCOPE OF WORK

- NEW PERGOLA - 500 SQFT TOTAL
- 1. WITH 4 RECESSED LIGHT
- 2. WITH FAN

APPLICABLE CODES

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING EDITIONS:
2022 CRC, CBC, CMC, CEC, CPC AND THE 2022 CALIFORNIA ENERGY CODE AND ALL APPLICABLE STATE AND LOCAL CODES.

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
- 2022 CALIFORNIA HISTORICAL BUILDING CODE
- 2022 CALIFORNIA EXISTING BUILDING CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2022 INTERNATIONAL EXISTING BUILDING CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA ADMINISTRATIVE CODE
- 2022 CALIFORNIA REFERENCED STANDARDS CODE



AA PERMIT AND DESIGN
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(925) 758-2200

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AND DESIGN AND MAY NOT BE
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WITHOUT WRITTEN PERMISSION.

600 LISA WAY
CAMPBELL, CA 95008

YUPEI CHENG

PROJECT OWNER

REVISION TABLE

NO	DATE
1	03-16-2023
2	
3	
4	

DATE

03-16-2023

SHEET CONTENT

SITE PLAN

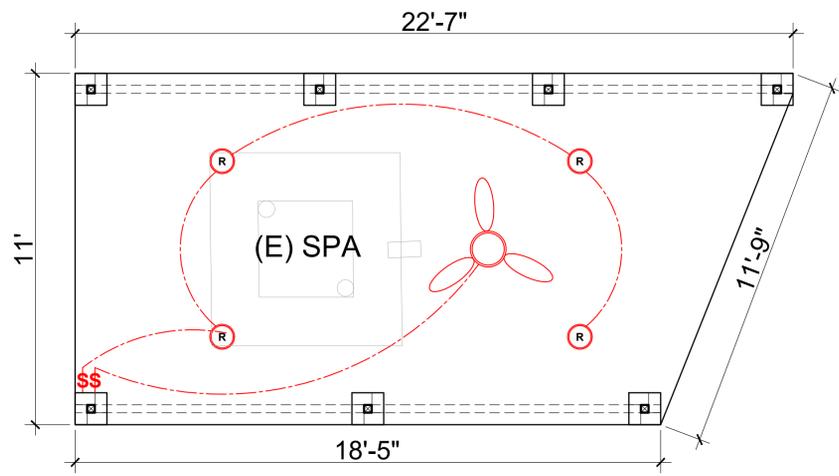
SHEET NO.

T1

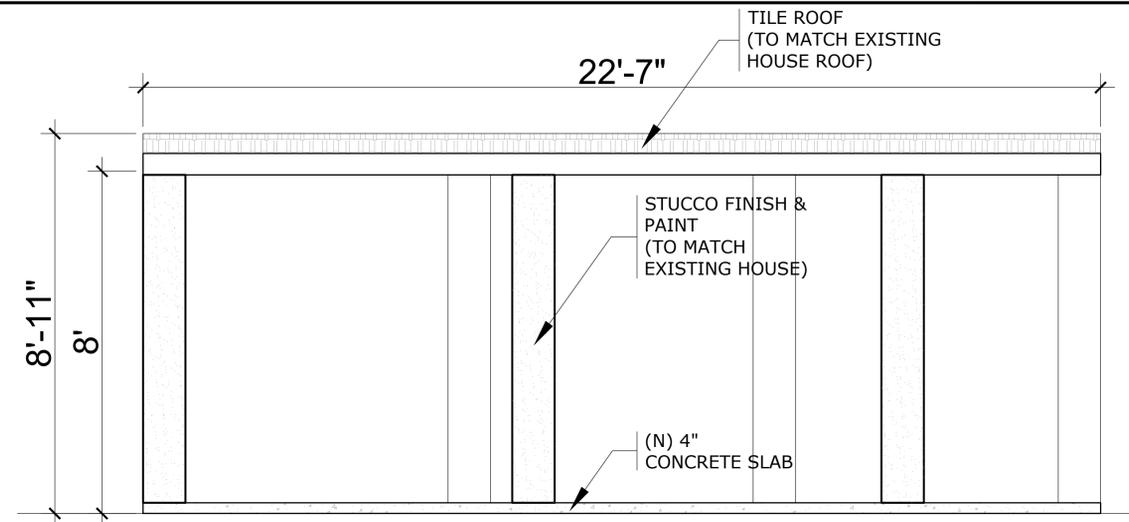
SHEET 1 OF 3

LEGENDS

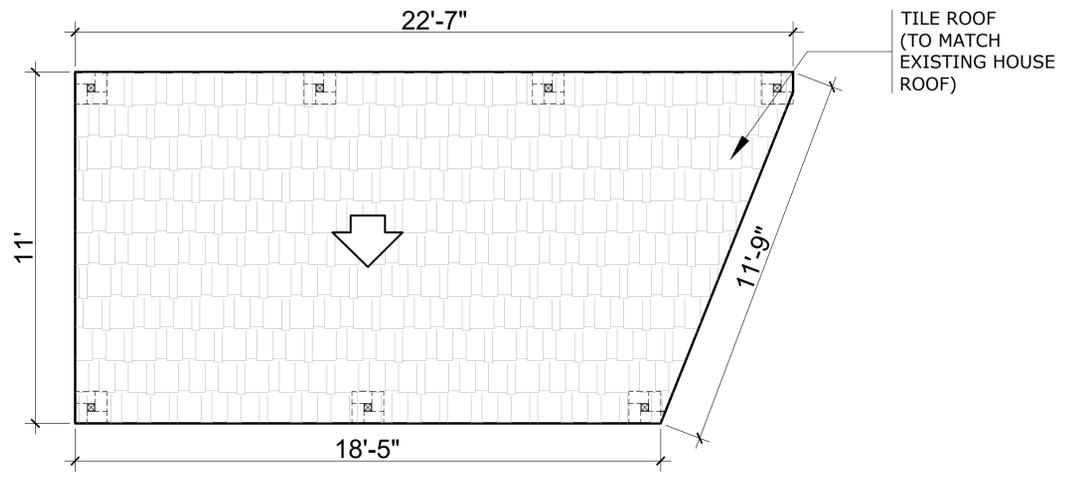
-  SWITCH
-  LED RECESSED LIGHT
-  FAN



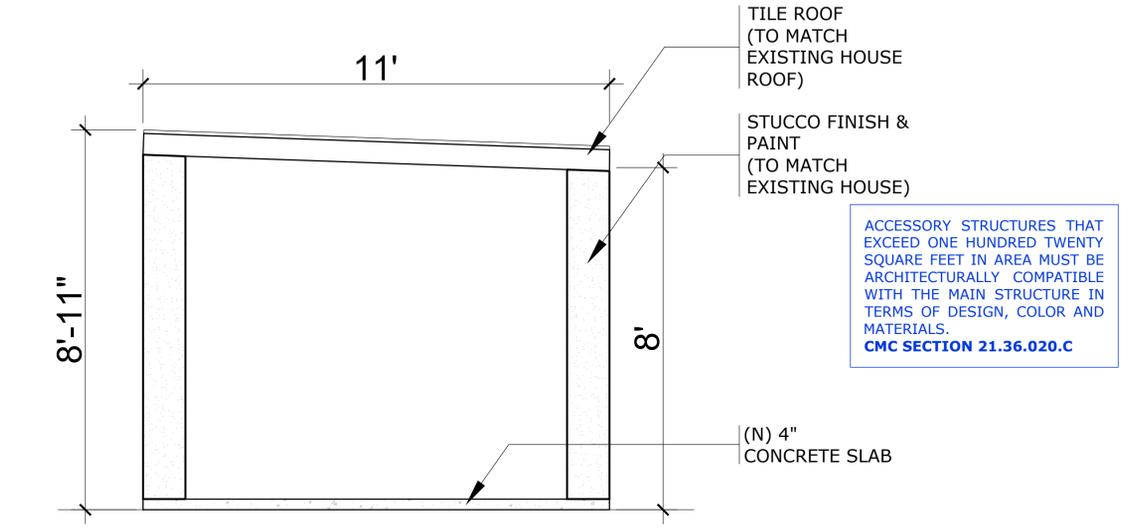
1 PLAN
A1 SCALE: 3/8" = 1'-0"



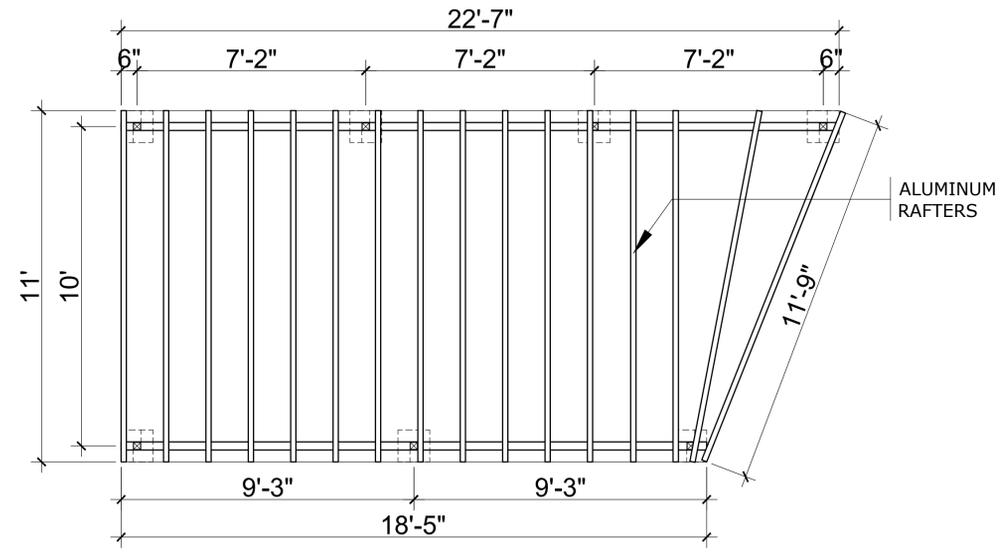
4 ELEVATION "A"
A1 SCALE: 1/2" = 1'-0"



2 ROOF PLAN
A1 SCALE: 3/8" = 1'-0"

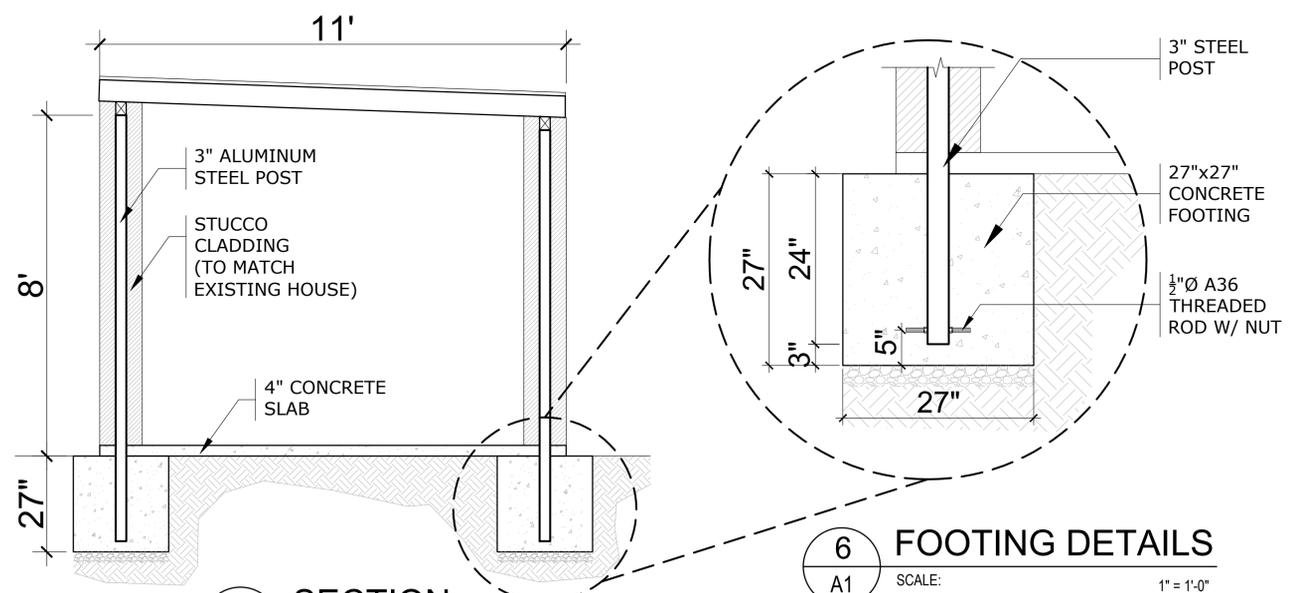


5 ELEVATION "B"
A1 SCALE: 1/2" = 1'-0"



3 ROOF FRAMING
A1 SCALE: 3/8" = 1'-0"

Loading Type	Allowable Span Tables										Minimum Pond Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	65 psf	
Live	10'-10"	11'-0"	11'-2"	11'-4"	11'-6"	11'-8"	12'-0"	12'-2"	12'-4"	12'-6"	12'
Wind (Pressure)	21'-0"	18'-0"	16'-0"	14'-0"	12'-0"	10'-0"	8'-0"	6'-0"	4'-0"	3'-0"	n/a
Wind (Suction)	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	n/a
Snow	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"	12'



6 SECTION
A1 SCALE: 1/2" = 1'-0"

6 FOOTING DETAILS
A1 SCALE: 1" = 1'-0"



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6136 WATER LILY COMMON,
LIVERMORE CA 94551
aapermitanddesign@gmail.com
(925) 758-2200

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PROJECT: **600 LISA WAY
CAMPBELL, CA 95008**

OWNER: **YUPEI CHENG**

REVISION TABLE

NO	DATE
1	03-16-2023
2	
3	
4	

DATE: 03-16-2023

SHEET CONTENT: PLAN
ROOF PLAN
ELEVATION
SECTION

SHEET NO. **A1**
SHEET 2 OF 3



1 ELECTRICAL PLAN
A2 SCALE: 1/8" = 1'-0"



2 EXISTING PHOTOS
A2 SCALE: NTS



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PROJECT
**600 LISA WAY
CAMPBELL, CA 95008**

OWNER
YUPEI CHENG

REVISION TABLE	
NO	DATE
1	03-16-2023
2	
3	
4	

DATE
03-16-2023

SHEET CONTENT
ELECTRICAL PLAN
EXISTING PHOTOS

SHEET NO.
A2
SHEET 3 OF 3

PATIO COVER SYSTEM AS MFG. BY: DURALUM PRODUCTS, INC.

IAPMO APPROVAL



2485 RAILROAD ST.
CORONA, CA 92880
951.736.4500



DATE SIGNED: June 27, 2022



26030 ACERO, SUITE 200
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

IAPMO 195 V 3.1.2

THESE PRODUCT DRAWINGS REPRESENT THE DESIGNS EVALUATED FOR RECOGNITION AS PART OF IAPMO UES EVALUATION REPORT ER-254. THESE DRAWINGS TOGETHER WITH ER-254 ARE COLLECTIVELY REFERRED TO IN THIS DOCUMENT AS THIS EVALUATION REPORT

EXPIRES ON: JUNE 30, 2023

REVISIONS		
MARK	DATE	DESCRIPTION

4 STEL JOB #	DA02-02
DATE	07/08/19
DRAWN BY	RC
CHECKED	MDS

IAPMO 195 V 3.1.2

IAPMO APPROVAL

G0.2



EVALUATION REPORT

Number: 195

Originally Issued: 06/01/2011 Revised: 01/09/2020 Valid Through: 06/30/2021

DURALUM PRODUCTS, INC.
2485 Railroad Street
Corona, California 92880
(951) 736-4500
www.duralum.com

RESIDENTIAL PATIO COVERS, CARPORTS, AND COMMERCIAL ROOF STRUCTURES

CSI Sections:
10 73 00 Protective Covers
13 34 00 Fabricated Engineered Structures

1.0 RECOGNITION

1.1 Patio Covers: Duralum Products Residential Patio Covers recognized in this report have been evaluated for use for recreational, outdoor living purposes associated with dwelling units and not as carports, garages, storage rooms or habitable rooms. The Residential Patio Covers comply with Appendix I of the IRC and CBC, and Appendix H of the IRC and CRC.

1.2 Carports and Commercial Roof Structures: Duralum Products Carports and Commercial Roof Structures recognized in this report have been evaluated for use where permitted by the applicable chapters of the IRC, including Sections 406 and 3105. Carports associated with one- and two-family dwelling units are for use where permitted by the IRC or CRC, including Section R309.

1.3 Compliance: The structural properties of the Residential Patio Covers, Carports, and Commercial Roof Structures recognized in this report were evaluated for compliance with the following codes and regulations:

- 2018, 2015 and 2012 International Building Code® (IBC)
- 2018, 2015 and 2012 International Residential Code® (IRC)
- 2019, 2016 and 2013 California Building Code (CBC)
- 2019, 2016 and 2013 California Residential Code (CRC)
- ASCE 7-16 and 7-10 – Minimum Design Loads for Buildings and Other Structures
- ADM1-2015 – Aluminum Design Manual Part 1

2.0 LIMITATIONS

Use of the Duralum Products Residential Patio Covers, Carports, and Commercial Roof Structures recognized in this report and detailed in the attached plans and specifications Revision V3.1.2, dated July 8, 2019, and signed December 17, 2019, is subject to the following limitations:

2.1 Construction of the residential patio covers, carports and commercial roof structures shall comply with the applicable codes, manufacturer's installation instructions, this report and the accompanying plans, bearing the name Duralum Products, Inc., and 4STEL Engineering. Where conflicts occur, the more restrictive shall govern.

2.2 Patio covers shall be associated with one- or two-family dwelling units only and shall be limited to use as structures regulated under Appendix I of the IRC or CBC or Appendix H of the IRC or CRC.

2.3 Carports and commercial roof structures shall be limited to use as structures regulated by the applicable chapters of the IRC for Risk Category II in accordance with Table 1.5-1 of ASCE 7. Carports associated with one- and two-family dwelling units shall be limited to use as structures regulated by the applicable chapters of the IRC, IRC, CBC and CRC.

2.4 Construction documents submitted to the building official for approval shall include this report and the site-specific structural components of the accompanying plans, including but not limited to the title sheet, general notes, applicable codes, structural configuration, design criteria in Section 3.1 of this report, related span tables, header, post and footing types, and appropriate structural details.

2.5 The existing structure shall be adequate to support the additional loads imposed by the attached patio cover.

2.6 For patio covers, carports and commercial roof structures subject to snow drifting and sliding, tabulated spans shall be modified in accordance with the reduction factors shown in the accompanying plans.

2.7 The projection over length ratio of attached patio covers shall not exceed 2.25 when using design for attached patio covers and can be increased to 4.0 when using column and footing sizes for freestanding structures. The projection over length ratio for freestanding covers is not limited.

2.8 Freestanding and attached patio covers, carports, and commercial structures shall have a roof slope of at least ¼ inch per foot (2.083 percent).

2.9 For attached patio covers, existing structures shall have a minimum width of 30 feet (8.7 m), maximum length of 50 feet (36.6 m), mean roof height of 22 feet (6.9 m) or less in Exposure Category B and 15 feet (4.6 m) or less in Exposure Category C and a roof slope of 1.5:12 to 6:12 (12.5 to 50 percent). Minimum size of roof overhangs is 50 square feet.

2.10 Freestanding covers attached covers and the existing building to which covers are attached shall comply with the scoping requirements of Chapter 26 of ASCE 7 for regular geometric shape and response characteristics.



EVALUATION REPORT

Number: 195

Originally Issued: 06/01/2011 Revised: 01/09/2020 Valid Through: 06/30/2021

2.11 Minimum design roof live load is 10 psf (47.88 Pa) for patio covers associated with a one- and two-family dwelling unit and 20 psf (95.76 Pa) for carports and commercial roof structures.

2.12 Installation of foam-plastic-core roof panels shall be in accordance with its evaluation report, Section 4.2.4 of this report and provide equivalent vertical and lateral load capacity as shown in this report.

2.13 Approved sealant or caulking shall be used at any penetrations made in the existing weather resistant exterior wall envelope.

2.14 Residential patio covers, carports and commercial roof structures subject to topographic effects of abrupt changes such as wind-speed-up over hills, ridges and escarpments in accordance with Section 26.8.1 of ASCE 7 are outside the scope of this report.

2.15 Any roof structure constructed in an area with a flat roof-top snow load greater than 70.6 psf (3380 Pa) in Seismic Design Categories A, B, C, D, D0, D1, D2, E or F, and not complying with Exception 1 of IBC or CBC Section 1613.1, is outside the scope of this report.

2.16 Addition of enclosure walls to residential patio covers shall be in accordance with Section 4.1 of this report.

2.17 The Duralum Products Residential Patio Covers, Carports, and Commercial Roof Structures are produced in Corona, California and Sacramento, California.

3.0 PRODUCT USE

Design and installation of the Duralum Products Residential Patio Covers, Carports, and Commercial Roof Structures shall comply with the applicable codes, the manufacturer's installation instructions, this report and the accompanying plans and specifications Revision V3.1.2, dated July 8, 2019, and signed December 17, 2019. All allowable loading conditions shall be as noted in the plans accompanying this report. Where conflicts occur, the more restrictive shall govern.

3.1 Design: Selection of applicable structural components for the installation of freestanding and attached residential patio covers, carports and commercial roof structures shall be in accordance with the design criteria as specified in the plans accompanying this report. The project location, use (patio cover, carport, commercial structure), corresponding code, and applicable design criteria, including risk category (IBC only), wind speed, wind exposure category, roof live load, ground snow load, seismic design category, and frost line depth shall be placed on or be attached to the plans accompanying this report and be observed in the selection of the components.

3.2 Installation: Installation of the components determined in Section 3.1 of this report to construct the patio cover,

carport, or commercial roof structure shall be in accordance with this report, the plans accompanying this report, manufacturer's installation instructions, and the applicable codes of this report. Where conflicts occur, the more restrictive shall govern.

4.0 PRODUCT DESCRIPTION

4.1 Product Information

Duralum Products Residential Patio Covers, Carports, and Commercial Roof Structures are freestanding and attached, non-enclosed solid and lattice residential patio covers, carports and commercial roof structures. The structures shall be constructed in accordance with the plans accompanying this report and as indicated in this report. Attached patio covers, where considered, shall be open on three sides. Attached carports associated with one- and two-family dwelling units shall be open on at least two sides. Freestanding patio covers, carports and commercial roof structures shall be open on all four sides.

Where designed, enclosure wall configurations used with the structural components described in this report to form enclosed attached residential patio covers shall conform to the limits noted in Section I103 of the IRC or CBC and Section AH103 of the IRC or CRC. The structures shall be listed in a product evaluation report from an approved source as defined in IBC and CBC Section 104.11.1 or other nationally recognized certification program accepted by IAPMO Uniform Evaluation Service.

4.2 Materials

4.2.1 Aluminum: Aluminum structural members are roll-formed or extruded shapes of various alloys and tempers, complying with Chapter 20 of the IBC and ASTM B209 as specified in the plans accompanying this report.

4.2.2 Steel: Steel members are formed from various grades of steel complying with ASTM A500, Grade B and ASTM A653 SS Grade 50 and, where designated, with a galvanized coating complying with G60, as specified in the plans accompanying this report.

4.2.3 Fasteners: Fasteners include aluminum and steel bolts, wood screws, lag screws, post installed anchors, self-drilling screws and sheet metal screws as specified in the plans accompanying this report.

4.2.4 Foam-Plastic-Core Panels: The laminated foam-core sandwich roof panels used with the structural components described in this report to form freestanding and attached residential patio and commercial covers shall be Durapanel Structural Panels for Patio Covers described and recognized in IAPMO UES [ER-505](#).



EVALUATION REPORT

Number: 195

Originally Issued: 06/01/2011 Revised: 01/09/2020 Valid Through: 06/30/2021

5.0 IDENTIFICATION

Enclosures covered by this report shall be identified by a permanent decal or identifying tag that states the name and address of the manufacturer (Duralum Products, Inc.). Each installation shall bear an original identifying decal or tag bearing the IAPMO UES Mark of Conformity and the Evaluation Report Number (ER-195). Either of the following Marks of Conformity may be used as shown:



IAPMO UES ER-195

6.0 SUBSTANTIATING DATA

6.1 Data complying with the ICC-ES Acceptance Criteria for Patio Covers (AC340), Approved August 2018.

6.2 Engineering calculations in accordance with the 2018, 2015 and 2012 International Building Code, ASCE 7-10 and 7-16 and the Aluminum Design Manual Part 1 (2015).

6.3 Quality control manual.

6.4 Product drawings.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on Duralum Products Residential Patio Covers, Carports, and Commercial Roof Structures manufactured in Corona and Sacramento, California, to assess their conformance to the codes shown in Section 1.0 of this report and documents the product's certification. The products are produced at locations noted in Section 2.17 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

Brian Gerber
Brian Gerber, P.E., S.E.
Vice President, Technical Operations
Uniform Evaluation Service

Richard Beck
Richard Beck, PE, CBO, MCP
Vice President, Uniform Evaluation Service

Russ Chaney
GP Russ Chaney
CEO, The IAPMO Group

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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web: www.uniform-es.org • 4755 East Philadelphia Street, Ontario, California 91761-3816 • USA



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Page 2 of 3

Page 3 of 3

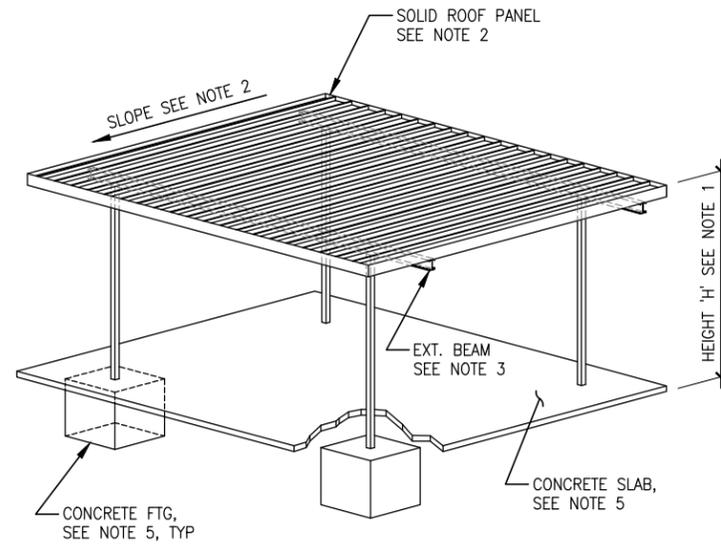
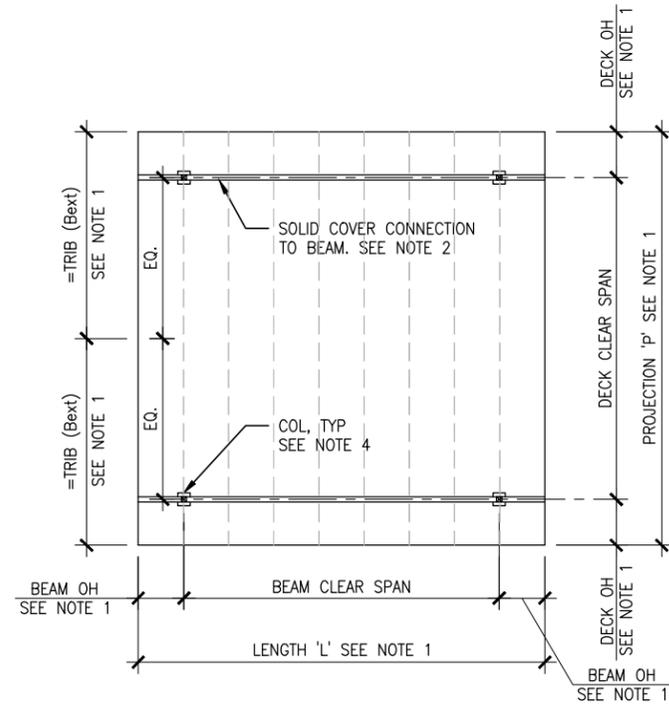


TABLE 1
MINIMUM NUMBER OF POSTS REQUIRING ATTACHMENT PER 3/S6.3

WITH 2 x 6.5 x 0.032 SIDE PLATES (SIDE PLATE TYPE SP3)

TRIB WIDTH	WIND SPEED AND EXPOSURE					
	110B	110C	120B	120C	130B	130C
5'	2	2	2	3	3	3
6'	2	3	3	3	3	4
7'	2	3	3	4	3	4
8'	3	3	3	4	4	5
9'	3	4	4	4	4	5
10'	3	4	4	5	5	6
11'	4	4	4	5	5	6
12'	4	5	5	6	5	7

WITH 2 x 6.5 x 0.042 SIDE PLATES (SIDE PLATE TYPE SP4)

TRIB WIDTH	WIND SPEED AND EXPOSURE					
	110B	110C	120B	120C	130B	130C
5'	2	2	2	2	2	3
6'	2	2	2	3	3	3
7'	2	3	3	3	3	4
8'	2	3	3	4	3	4
9'	3	3	3	4	4	5
10'	3	4	4	4	4	5
11'	3	4	4	5	5	6
12'	3	4	4	5	5	5

NOTES:
 1. NUMBER OF POSTS SHOWN IN THIS TABLE IS A MINIMUM. ADD POSTS AS REQUIRED TO ENSURE THAT THE "MAX POST SPACING (SPAN)" SHOWN ON SHEETS S8.xx.x IS NOT EXCEEDED.
 2. THIS TABLE IS TO BE USED IN CONJUNCTION WITH DETAIL 3/S6.3
 3. THIS TABLE DOES NOT APPLY IF THE SIDE PLATES ARE PROVIDED FOR AESTHETICAL PURPOSES AND THE BEAM IS CONNECTED TO THE COLUMN DIRECTLY PER 2/S6.3 OR WITH A BRACKET PER 1/S4.5 & 1/S6.3.

C PLAN VIEW
1/16"=1'-0"

B ISOMETRIC VIEW
3/32"=1'-0"

A TABLE 1 - MINIMUM NUMBER OF COL REQUIRING TOP ATTACHMENT PER 3/S6.3



2485 RAILROAD ST,
CORONA, CA 92880
951.736.4500



DATE SIGNED: June 27, 2022



26030 ACERO, SUITE 200
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

IAPMO 195 V 3.1.2

THESE PRODUCT DRAWINGS REPRESENT THE DESIGNS EVALUATED FOR RECOGNITION AS PART OF IAPMO UES EVALUATION REPORT ER-254. THESE DRAWINGS TOGETHER WITH ER-254 ARE COLLECTIVELY REFERRED TO IN THIS DOCUMENT AS THIS EVALUATION REPORT

EXPIRES ON: JUNE 30, 2023

REVISIONS		
MARK	DATE	DESCRIPTION

4 STEL JOB #	DA02-02
DATE	07/08/19
DRAWN BY	RC
CHECKED	MDS

IAPMO 195 V 3.1.2

SOLID PANEL STRUCTURES:
TYPE C

S1.3

NOTES:

1. PATIO COVER DIMENSIONS

- A. SEE DESIGN ASSUMPTION 4 ON G0.1 FOR PATIO COVERS CONSISTING OF SOLID COVERS AND LATTICE FRAMING.
- B. HEIGHT OF STRUCTURE 'H' (TO TOP OF COVER) SHALL NOT BE OVER 12 FT.
- C. BEAM OVERHANG 'OH' SHALL NOT EXCEED 25% OF BEAM'S ADJACENT CLEAR SPAN. EXCEPTION: NO OVERHANG ALLOWED AT I BEAMS CONNECTED TO SIDE OF COL.
- D. SOLID COVER OVERHANG 'OH' SHALL NOT EXCEED 25% OF DECK OR IRP SOLID COVER'S ADJACENT CLEAR SPAN, (OR 24" MAX. AT IRP, WHICHEVER IS LESS).
- E. TRIBUTARY WIDTH ARE AS SHOWN ON PLAN:
 - TRIB (Bext)= 1/2 ADJACENT DECK CLEAR SPAN @ RIGHT + DECK OH @ LEFT

2. SOLID COVERS

- A. SEE SHEET S3.1F AND S3.3 FOR DECK PROFILES AND MAXIMUM SPANS.
- B. SEE SHEET S3.2 FOR DURAPANEL INSULATED STRUCTURAL SANDWICH PANELS MAXIMUM SPANS.
- C. SEE SHEET S2.2 FOR REDUCTION OF SOLID COVER MAXIMUM SPAN WHEN DESIGNING FOR SNOW LOADS.
- D. SEE SHEET S3.2 FOR CONNECTION OF SOLID COVERS TO SUPPORTING BEAMS.
- E. SEE SHEETS S3.2, S6.1 AND S6.2 FOR CONNECTION OF SOLID COVERS TO (E) BUILDING.
- F. MINIMUM SLOPE OF SOLID DECK COVERS TO BE PER SHEET S3.2.
- G. MINIMUM SLOPE OF DURAPANELS TO BE PER SHEET S3.2.

3. BEAMS

- A. SEE SHEETS S4.1 & S4.2 FOR BEAM PROFILES.
- B. SEE SHEET S4.6 FOR FAN BEAM WHERE OCCURS.
- C. SEE SHEETS 9/S7.2 AND S8.xx.x FOR TABLES SHOWING MAXIMUM BEAM SPANS.
- D. SEE SHEET S2.2 FOR REDUCTION OF BEAM MAXIMUM SPAN WHEN DESIGNING FOR SNOW LOADS.
- E. SEE SHEET S6.x FOR BEAM CONNECTIONS & DETAILS.
- F. SEE SHEET S5.1 FOR BEAM SPLICE DETAIL WHERE REQUIRED.

4. COLUMNS

- A. SEE TABLE 1 ON THIS SHEET FOR MINIMUM NUMBER OF POSTS REQUIRED BASED ON COVER DIMENSIONS.
- B. SEE SHEET S4.3 FOR COLUMN PROFILES.
- C. SEE SHEETS 9/S7.2 AND S8.xx.x FOR TABLES SHOWING MAXIMUM POST SPACING.
- D. SEE SHEETS S6.x AND S7.x FOR POSTS CONNECTIONS & DETAILS.

5. FOUNDATIONS

- A. SEE SHEETS S7.1 AND S7.2 FOR COLUMN CONNECTION TO FOUNDATION.
- B. SEE BEAM SPAN TABLES ON SHEET S8.xx.x FOR MINIMUM FOOTING SIZE FOR PATIO COVER SUPPORTED ON CONCRETE FOOTING, BASED ON BEAM SPAN SELECTED.
- C. SEE S7.1 FOR ALTERNATE FOOTING SIZES.

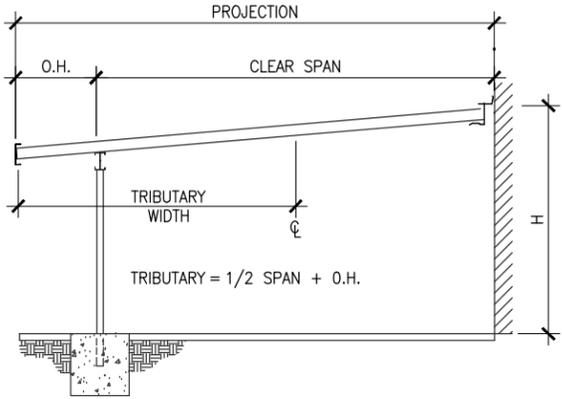
SHEET INDEX - SOLID PANEL STRUCTURES: TYPE C

- G0.1 - TITLE SHEET, DESIGN LOADS, GENERAL NOTES
- G0.2 - IAPMO APPROVAL
- S1.3 - SOLID PANEL STRUCTURES: TYPE C
- S1.5 - SOLID PANEL STRUCTURES: TRIBUTARY WIDTHS TO BEAMS
- S2.1 - SOLID PANEL STRUCTURES: SNOW LOAD DESIGN: NEED TO CONSIDER DRIFT AND SLIDING DESIGN
- S2.2 - SOLID PANEL STRUCTURES: SNOW LOAD DESIGN: SPAN REDUCTION FACTORS DUE TO DRIFT AND SLIDING
- S3.1F - SOLID PANEL STRUCTURES: FREESTANDING COVERS MAXIMUM SPANS AND MINIMUM FASTENERS
- S3.2 - SOLID PANEL STRUCTURES: CROSS SECTIONS
- S3.3 - SOLID PANEL STRUCTURES: DURAKING AND T6 PAN MAXIMUM SPANS AND MINIMUM FASTENERS
- S4.1 - SOLID PANEL STRUCTURES: BEAM PROFILES
- S4.2 - SOLID PANEL STRUCTURES: BEAM PROFILES
- S4.3 - SOLID PANEL STRUCTURES: COLUMN PROFILES
- S4.4 - SOLID PANEL STRUCTURES: MEMBERS PROFILES
- S4.5 - SOLID PANEL STRUCTURES: CONNECTORS
- S4.6 - SOLID PANEL STRUCTURES: FAN BEAM DETAILS
- S5.1 - SOLID PANEL STRUCTURES: SPLICE DETAILS
- S6.1 - SOLID PANEL STRUCTURES: ATTACHMENT TO EXISTING BUILDING
- S6.2 - SOLID PANEL STRUCTURES: CONNECTION DETAILS
- S6.3 - SOLID PANEL STRUCTURES: CONNECTION DETAILS
- S7.1 - SOLID PANEL STRUCTURES: FOUNDATION DETAILS
- S7.2 - SOLID PANEL STRUCTURES: FOUNDATION DETAILS
- S8.xx.x - SOLID PANEL STRUCTURES: BEAM SPANS AND FOUNDATION SIZES xx PSF LL/SL, 1x0 MPH
- G9.1 - ADDITIONAL STATE LICENSURE STAMPS

SOLID PANEL STRUCTURE TYPE C: FREESTANDING SINGLE SPAN WITH OPTIONAL CANTILEVER

TRIBUTARY WIDTH TABLE (FT)																			
OH (FT)	CLEAR SPAN (FT)																		
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
1	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	NP	NP
2	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	NP	NP	NP	NP
3	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	NP	NP	NP	NP	NP	NP
4	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	NP							
5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	NP									

NP - NOT PERMITTED - SITE SPECIFIC ENGINEERING REQUIRED.
 ROUND UP TRIBUTARY WIDTH AS REQUIRED TO USE DESIGN TABLES.



NOTE: TRIBUTARY ON MULTIPLE SPANS IS EQUAL TO CENTER SPAN TO CENTER SPAN



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SOLID PANEL STRUCTURES:
 TRIBUTARY WIDTH TO BEAMS

S1.5



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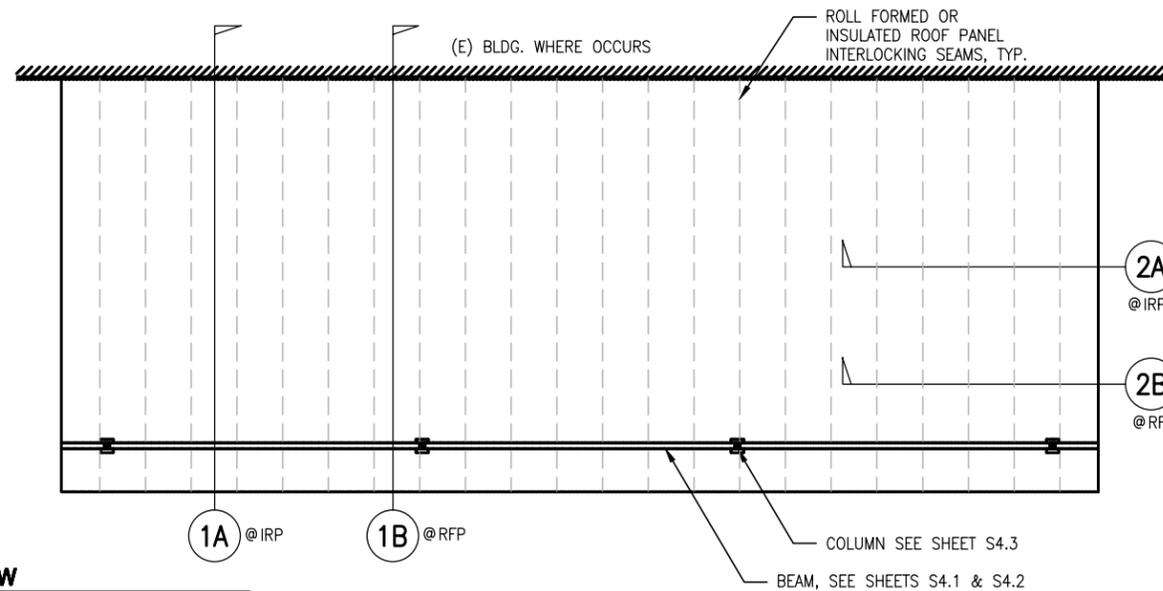
SOLID PANEL STRUCTURES:
CROSS SECTIONS

S3.2

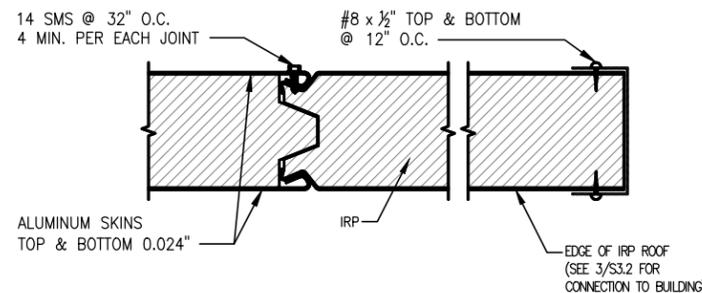
IRP ROOF PANEL	WIND SPEED AND EXPOSURE					
	110 (MPH)		120 (MPH)		130 (MPH)	
	B	C	B	C	B	C
3" - 0.024"	A	A	A	A	A	A
4.25" - 0.024"	A	A	A	A	A	A
3" - 0.030"	A	A	A	A	A	B
4.25" - 0.030"	A	B	B	B	B	B
6.00" - 0.030"	B	B	B	B	B	B

- NOTE:
1) A: 6" O.C. TOP CONNECTION TO BEAMS
12" O.C. T&B CONNECTION IR HANGER
2) B: 4" O.C. TOP CONNECTION TO BEAMS
8" O.C. T&B CONNECTION IR HANGER

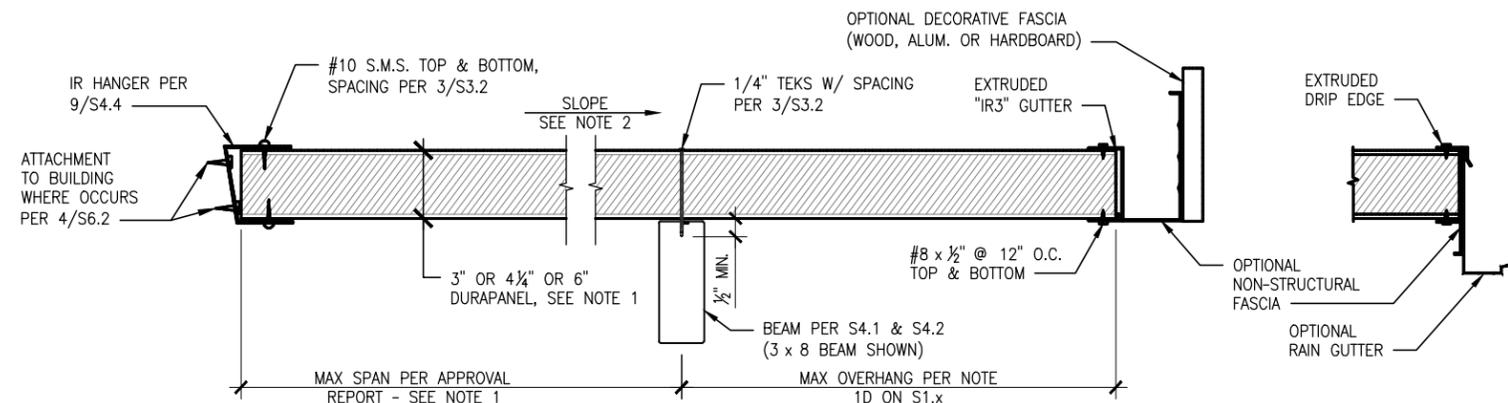
3 FASTENER SPACING SCHEDULE
N.T.S.



A PLAN VIEW
N.T.S.

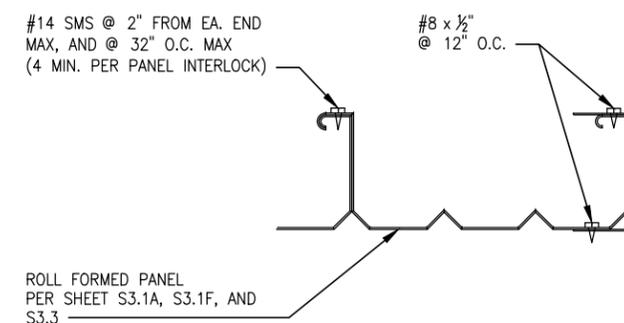


2A INSULATED ROOF PANEL (IRP) INTERLOCKING JOINT
N.T.S.

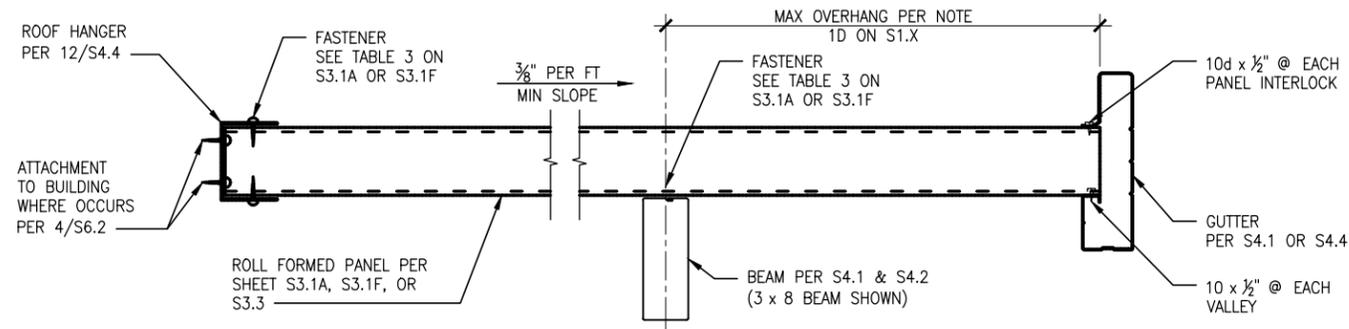


- NOTES:
1. THE IRP ROOF PANELS USED WITH THE PATIO COVER STRUCTURES RECOGNIZED IN THIS EVALUATION REPORT MUST BE A DURALUM PRODUCT PER IAPMO-ER-505, CALIFORNIA FBH CA-LRP-2410 OR CA-LRP-3220.
2. THE SLOPE OF THE IRP ROOF PANELS SHALL BE PER THE IAPMO OR FBH REPORTS LISTED ABOVE. RECOMMENDED MINIMUM SLOPE IS 3/8" PER FOOT AT COVERS DESIGNED FOR LIVE LOADS, AND 1/2" PER FOOT AT COVERS DESIGNED FOR SNOW LOADS,

1A INSULATED ROOF PANEL (IRP)
N.T.S.



2B ROLL FORMED PANEL (RF) INTERLOCKING JOINT
3' = 1'-0"



1B ROLL FORMED PANEL (RF) TO HEADER BEAM CONNECTION
N.T.S.



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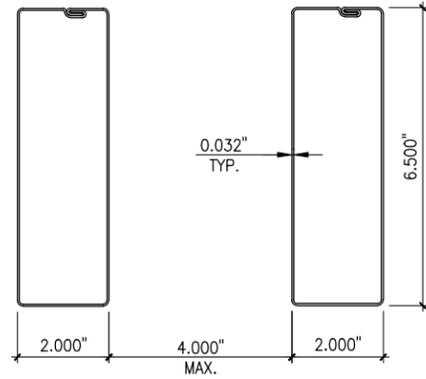
CHECKED MDS

IAPMO 195 V 3.1.2

SOLID PANEL STRUCTURES:
BEAM PROFILES

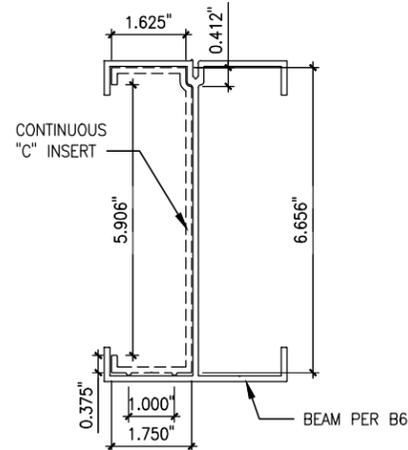
S4.1

ALUM. ALLOY 3004-H36



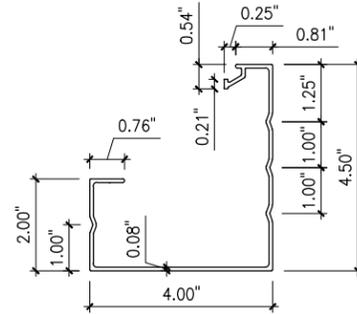
B10 DBL 2 x 6 1/2 x 0.032
3"=1'-0"

ALUM. ALLOY 6063-T6



B7 7\"/>

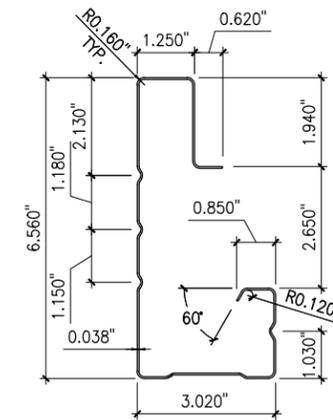
ALUM. ALLOY 6063-T6



NOTES:
1. SEE 10/S5.1 FOR SPLICE DETAIL WHERE OCCURS.
2. THIS GUTTER IS USED WITH 6\"/>

B4 MAG GUTTER
3"=1'-0"

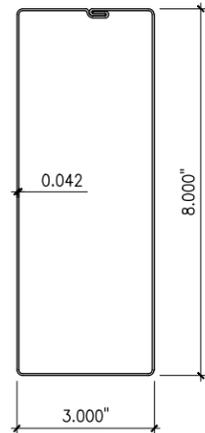
ALUM. ALLOY 3004-H36



NOTES:
1. SEE 4/S5.1 FOR SPLICE DETAIL WHERE OCCURS.
2. THIS GUTTER IS USED WITH 6\"/>

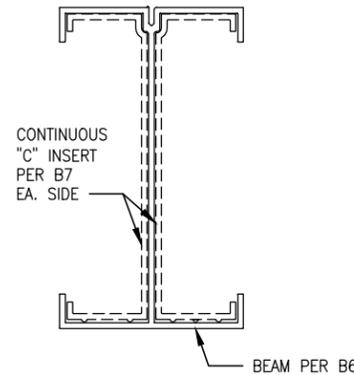
B1 6.5\"/>

ALUM. ALLOY 3004-H36



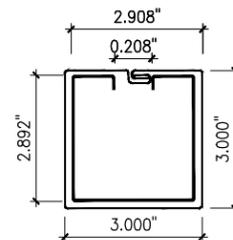
B11 3 x 8 x 0.042
3"=1'-0"

ALUM. ALLOY 6063-T6



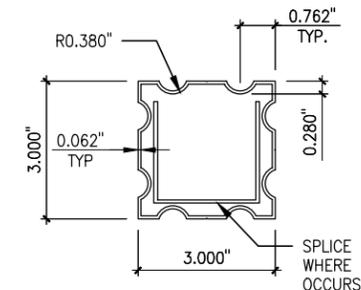
B8 7\"/>

ALUM. ALLOY 3004-H36
STEEL ASTM A653-SS GRADE 50 G60



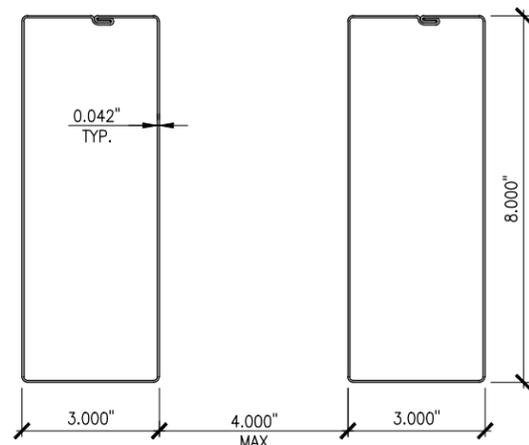
B5 3\"/>

ALUM. ALLOY 6063-T6



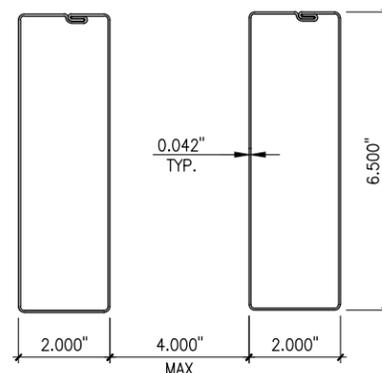
B2 MAG BEAM
3"=1'-0"

ALUM. ALLOY 3004-H36



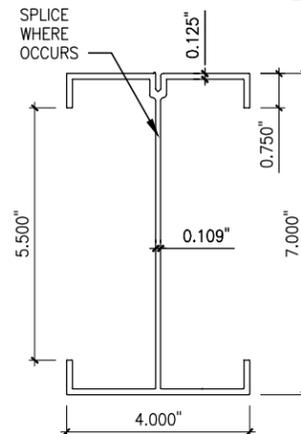
B12 DBL 3 x 8 x 0.042
3"=1'-0"

ALUM. ALLOY 3004-H36



B9 DBL 2 x 6 1/2 x 0.042
3"=1'-0"

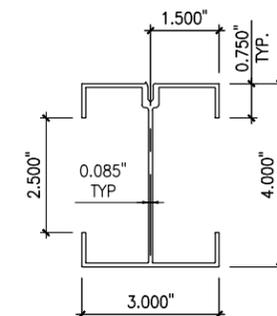
ALUM. ALLOY 6063-T6



NOTE:
1. SEE 6/S5.1 FOR SPLICE DETAIL WHERE OCCURS.

B6 7\"/>

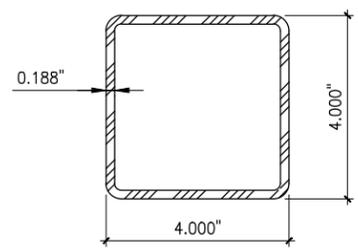
ALUM. ALLOY 6063-T6



NOTE:
1. SEE 5/S5.1 FOR SPLICE DETAIL WHERE OCCURS.

B3 4\"/>

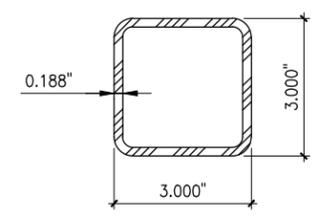
ASTM A500 GRADE B



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) WITH ALUMINUM BENT PLATES FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C10 HSS 4 x 4 x 3/16 3"=1'-0"

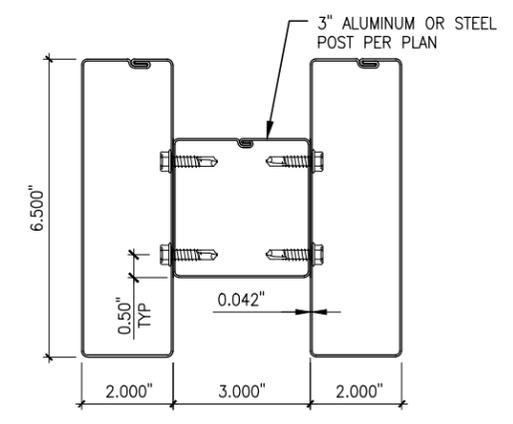
ASTM A500 GRADE B



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) BY SECTION C1 FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C7 HSS 3 x 3 x 3/16 3"=1'-0"

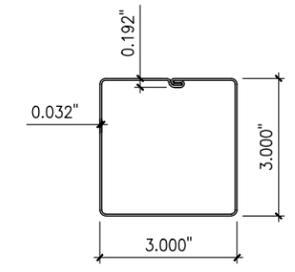
ALUM. ALLOY 3004-H36



NOTE: SEE TABLE 1 ON S1.x FOR APPLICATION OF THIS DETAIL.

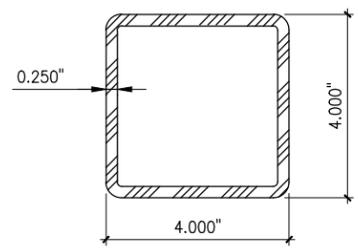
SP4 0.042\"/>

ALUM. ALLOY 3004-H36



C1 3\"/>

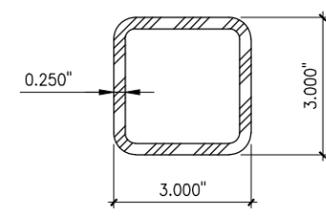
ASTM A500 GRADE B



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) WITH ALUMINUM BENT PLATES FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C11 HSS 4 x 4 x 1/4 3"=1'-0"

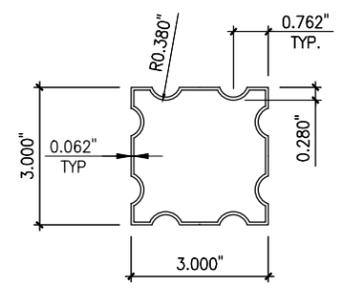
ASTM A500 GRADE B



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) BY SECTION C1 FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C8 HSS 3 x 3 x 1/4 3"=1'-0"

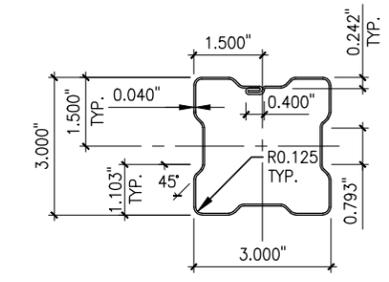
ALUM. ALLOY 6063-T6



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) BY SECTION C1 FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C5 3\"/>

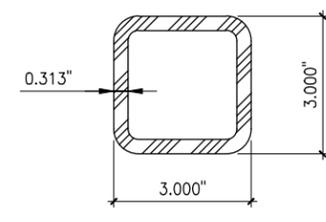
ALUM. ALLOY 3004-H36



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) BY SECTION C1 FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C2 3\"/>

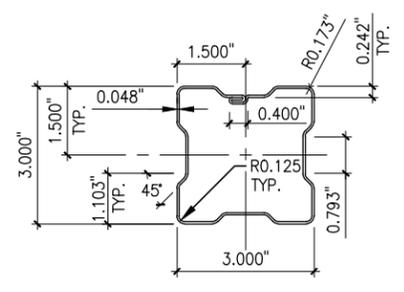
ASTM A500 GRADE B



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) BY SECTION C1 FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C9 HSS 3 x 3 x 5/16 3"=1'-0"

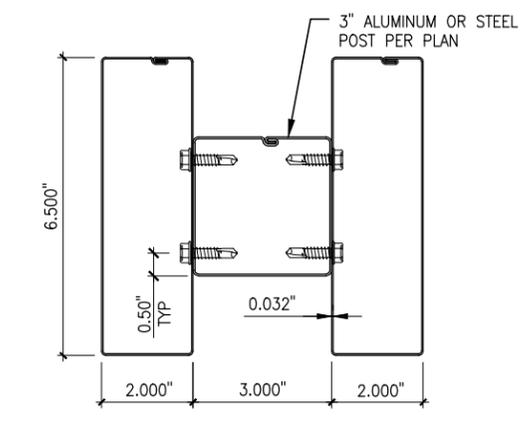
STEEL A653 GRADE 50 CP60



NOTE: IT IS ACCEPTABLE TO COVER THIS COLUMN SECTION (FULL HEIGHT) BY SECTION C1 FOR AESTHETICAL PURPOSES. NO FASTENERS ARE REQUIRED. SLEEVE SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE BEAM/COLUMN CONNECTION.

C6 3\"/>

ALUM. ALLOY 3004-H36



NOTE: SEE TABLE 1 ON S1.x FOR APPLICATION OF THIS DETAIL.

SP3 0.032\"/>



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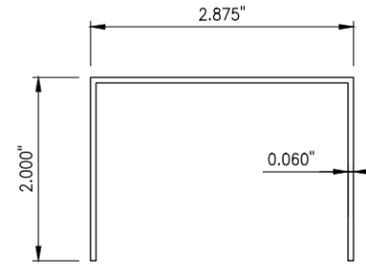
4 STEEL JOB #	DA02-02
DATE	07/08/19
DRAWN BY	RC
CHECKED	MDS

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SOLID PANEL STRUCTURES:
COLUMN PROFILES

S4.3

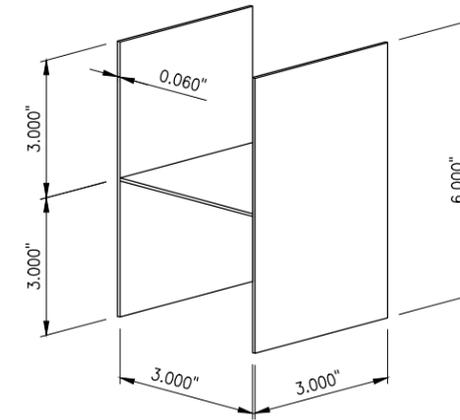
ALUM. ALLOY 6063-T6



NOTE:
BRACKET IS 2 3/4" LONG

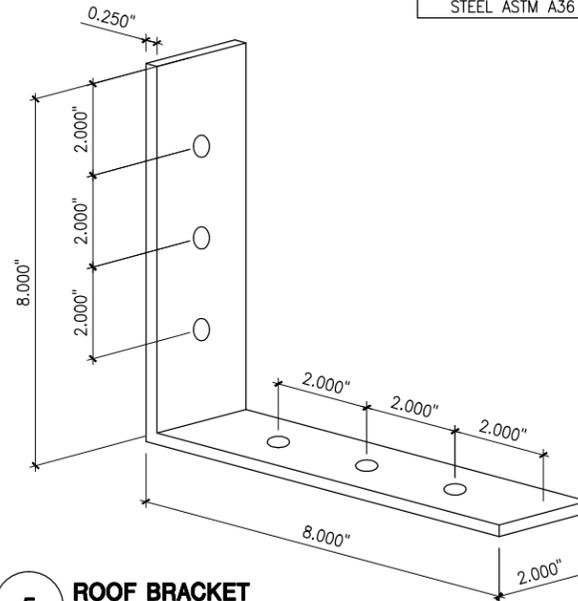
4 "U" BRACKET AT COLUMN
6"=1'-0"

ALUM. ALLOY 6063-T6



1 "H" BRACKET
N.T.S.

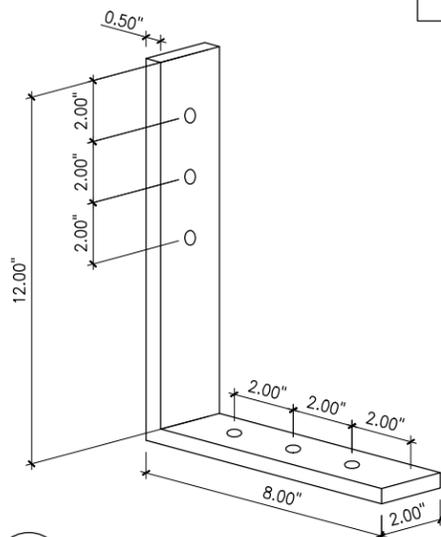
STEEL ASTM A36



5 ROOF BRACKET
L8 x 8 x 1/4 x 2"
3"=1'-0"

2 NOT USED
X'=1'-0"

STEEL ASTM A36



6 SNOW BRACKET
L12 x 8 x 1/2 x 2"
2"=1'-0"

3 NOT USED
X'=1'-0"



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4 STEL JOB # DA02-02

DATE 07/08/19

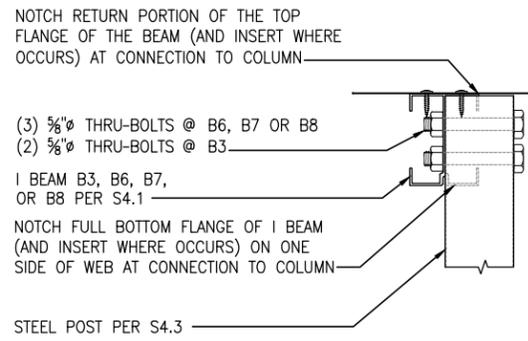
DRAWN BY RC

CHECKED MDS

IAPMO 195 V 3.1.2

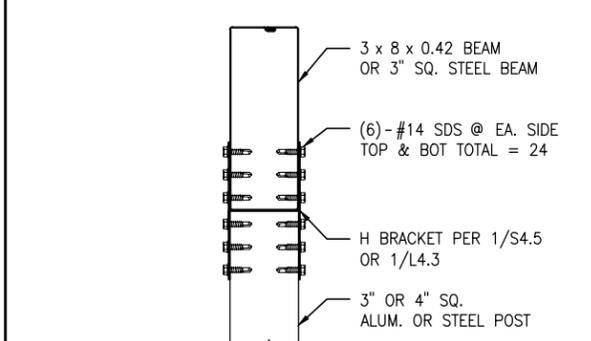
SOLID PANEL STRUCTURES:
CONNECTORS

S4.5



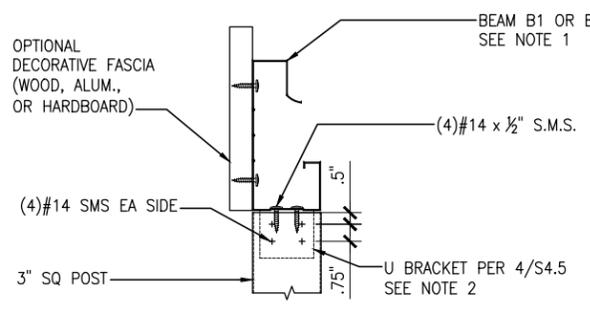
NOTE:
DO NOT NOTCH BEAM AT END COLUMNS WITH OVERHANG

4 I BEAM TO POST
1-1/2"=1'-0"



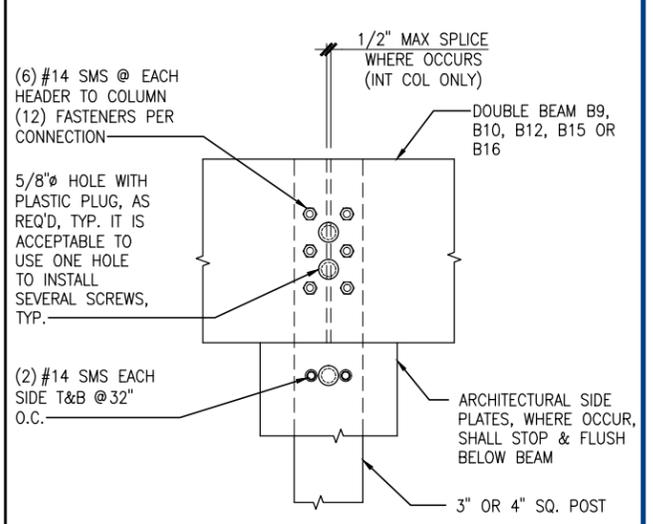
NOTES:
THIS DETAIL IS TO BE USED AS AN ALTERNATE TO DETAIL 3/S6.3

1 'H' BRACKET TO POST
1-1/2"=1'-0"

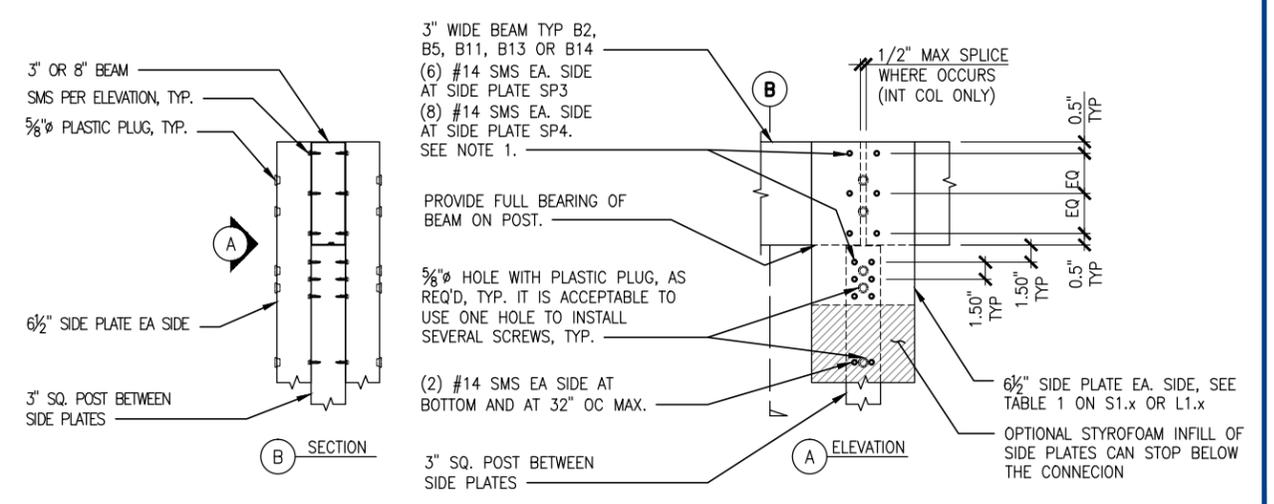


NOTES:
1. USE SIMILAR DETAIL AT 3 x 3 OR 3 x 8 BEAMS.
2. U BRACKET IS NOT REQUIRED IF SIDE PLATES PER 3/S6.3 OR H BRACKET PER 1/S6.3 ARE PROVIDED.

5 BEAM TO POST
1-1/2"=1'-0"



2 DBL BEAM TO COL
1-1/2"=1'-0"



3 BEAM TO POST CONNECTION
3/4"=1'-0"

NOTES:
AT COLUMN B2, ADJUST SCREW LOCATION TO LOCATE SCREWS INTO THE FLAT PORTION / VERTICAL WALL OF BEAM



2485 RAILROAD ST,
CORONA, CA 92880
951.736.4500



DATE SIGNED: June 27, 2022



26030 ACERO, SUITE 200
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

IAPMO 195 V 3.1.2

THESE PRODUCT DRAWINGS REPRESENT THE DESIGNS EVALUATED FOR RECOGNITION AS PART OF IAPMO UES EVALUATION REPORT ER-254. THESE DRAWINGS TOGETHER WITH ER-254 ARE COLLECTIVELY REFERRED TO IN THIS DOCUMENT AS THIS EVALUATION REPORT

EXPIRES ON: JUNE 30, 2023

REVISIONS		
MARK	DATE	DESCRIPTION

4 STEL JOB # DA02-02

DATE 07/08/19

DRAWN BY RC

CHECKED MDS

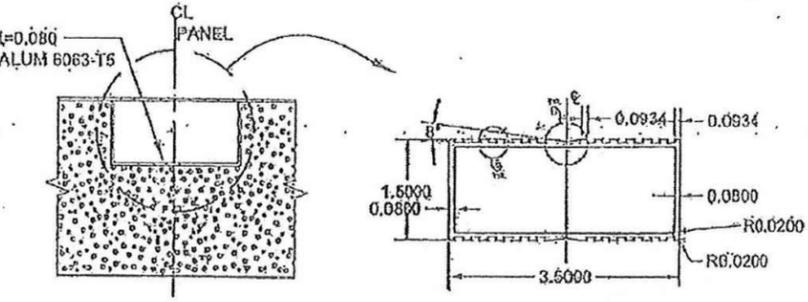
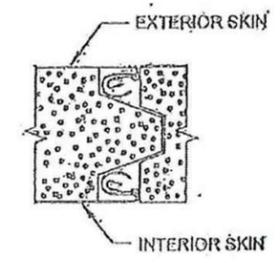
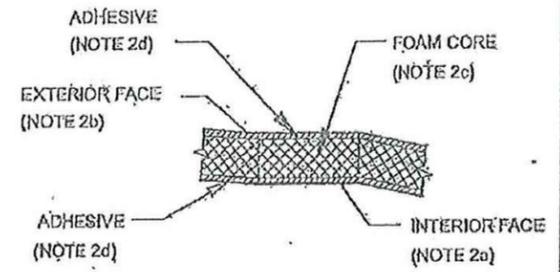
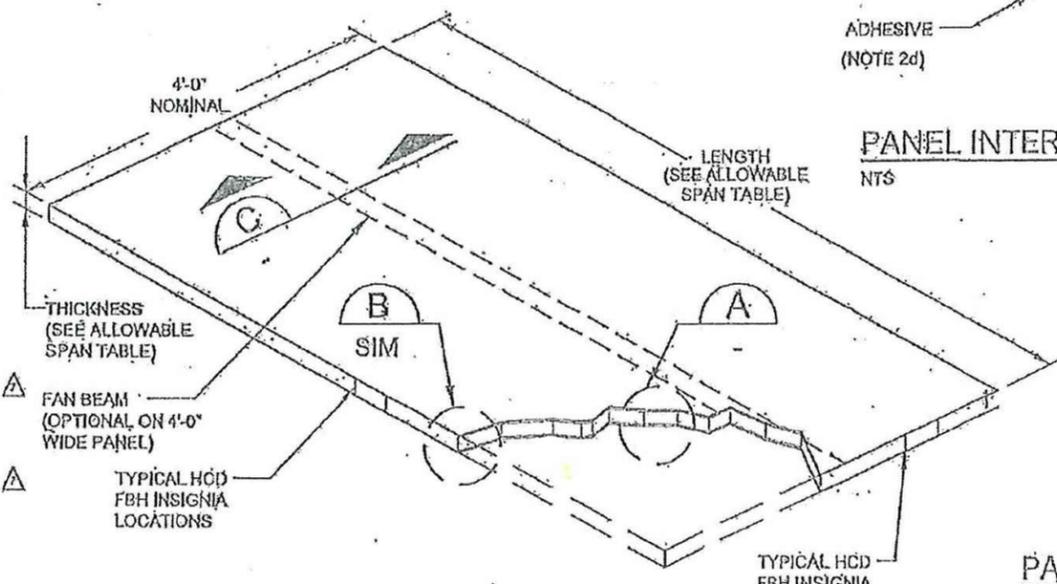
IAPMO 195 V 3.1.2

SOLID PANEL STRUCTURES:
CONNECTION DETAILS

S6.3

GENERAL NOTES AND SPECIFICATIONS:

- 1) THE FOAM CORE ROOF PANELS DEPICTED WITHIN THIS DRAWING ARE INTENDED FOR USE ON RESIDENTIAL PATIOS AS REGULATED BY APPENDIX I OF THE 2019 CALIFORNIA BUILDING CODE (CBC), APPENDIX H OF THE 2019 CALIFORNIA RESIDENTIAL CODE OR ON MOBILE HOME AWNINGS AS REGULATED BY TITLE 25 OF THE CALIFORNIA ADMINISTRATIVE CODE.
- 2) MATERIALS:
 - a) INTERIOR FACING MATERIAL SHALL BE ALUMINUM CONFORMING TO THE REQUIREMENTS FOR 3105-H26, OR BETTER ALLOY AND TEMPER. THICKNESS OF SKIN SHALL BE AS SHOWN IN THE APPROPRIATE ALLOWABLE SPAN TABLE. THE UNEXPOSED SIDE OF THE INTERIOR METAL SKIN SHALL HAVE A BONDING MATERIAL COMPATIBLE WITH THE ADHESIVE DEFINED IN 2d. PAINT ON OUTSIDE SURFACE OF METAL SKIN SHALL BE POLYESTER AS SPECIFIED IN THE QUALITY CONTROL SYSTEMS MANUAL.
 - b) EXTERIOR FACING MATERIAL SHALL BE ALUMINUM CONFORMING TO THE REQUIREMENTS FOR 3105-H26, OR BETTER ALLOY AND TEMPER. THICKNESS OF SKIN SHALL BE AS SHOWN IN THE APPROPRIATE ALLOWABLE SPAN TABLE. THE UNEXPOSED SIDE OF THE EXTERIOR METAL SKIN SHALL HAVE A BONDING MATERIAL COMPATIBLE WITH THE ADHESIVE DEFINED IN 2d. PAINT ON OUTSIDE SURFACE OF METAL SKIN SHALL BE POLYESTER AS SPECIFIED IN THE QUALITY CONTROL SYSTEMS MANUAL.
 - c) THE FOAM CORE SHALL BE AS DEFINED BELOW AND HAVING A NOMINAL DENSITY AS SHOWN IN THE ALLOWABLE SPAN TABLE:
 - i) PREFORMED EXPANDED POLYSTYRENE BOARD (EPS), AS MANUFACTURED BY ONE OF SEVERAL RECOGNIZED MANUFACTURERS SPECIFIED IN THE QUALITY SYSTEMS MANUAL. THE FOAM SHALL MEET THE REQUIREMENTS FOR CLASS A MATERIAL PER SECTION 803.1.2 OF THE 2019 CBC. THE FOAM PLASTIC IS CLASSIFIED AS TYPE I FOAM IN ACCORDANCE WITH ASTM C578.
 - ii) THE COMPONENTS ARE BONDED TOGETHER BY AN ADHESIVE DESIGNATED AS EITHER MORAD M-650 SERIES, A PROPRIETARY ADHESIVE MANUFACTURED BY DUPONT DU NEMOURS, INC., AND RECOGNIZED UNDER ICC ESR-1023; OR ISOGRIIP SP5050D, A PROPRIETARY ADHESIVE MANUFACTURED BY ASHLAND SPECIALTY CHEMICAL COMPANY AND RECOGNIZED UNDER ICC ESR-1140. THE ADHESIVE IS A CLASS 2, TYPE II, STRUCTURAL ADHESIVE, UNDER ICC ESR-1023.
- 3) THE MANUFACTURER OF ANY COMPONENT CITED IN ITEM 2 ABOVE SHALL PROVIDE CERTIFICATION WITH EACH SHIPMENT THAT ALL COMPONENTS PROVIDED WITHIN THE SHIPMENT CONFORM TO THE APPLICABLE SPECIFICATION(S) AND/OR DEFINITION(S) OUTLINED ABOVE.
- 4) THE MAXIMUM ALLOWABLE SPAN, FOR A GIVEN APPLIED LOAD SHALL NOT EXCEED THE SPAN PROVIDED IN THE ALLOWABLE SPAN TABLE FOR SAID LOAD. EXTRAPOLATION OF THE INFORMATION PROVIDED IN THE ALLOWABLE SPAN TABLE IS NOT PERMITTED.
- 5) PANELS SHALL BE CONTINUOUS IN THE DIRECTION OF SPAN WITH NO TRANSVERSE JOINTS.
- 6) THE SUPPORT AND STRUCTURAL ATTACHMENT OF THE SUBJECT PANELS SHALL BE SUBSTANTIATED BY EITHER APPROVED EVALUATION REPORT PLANS OR STRUCTURAL PLANS APPROVED BY THE GOVERNING JURISDICTION. THE GOVERNING JURISDICTION SHALL CONFIRM THAT SAID PLANS ARE INTENDED FOR USE WITH THE DESIRED PANEL LOADS AND SPANS FOR EACH SPECIFIC PROJECT.
- 7) ALL PANEL EDGES SHALL BE SHIELDED IN ALUMINUM SECTIONS. ALL INTERFACES BETWEEN THE ALUMINUM SECTIONS AND PANEL SHALL BE CAULKED WITH APPROPRIATE SEALANT.
- 8) METAL PANEL FASTENERS SHALL BE STAINLESS STEEL OR ALUMINIZED, HOT-DIP GALVANIZED OR ELECTROGALVANIZED STEEL.
- 9) AN IDENTIFICATION DECAL WITH DEPARTMENT OF HOUSING INSIGNIA AND MANUFACTURER'S IDENTIFICATION NUMBER SHALL BE LOCATED AT ANY OF THE FOAM EDGES ON THE FOAM CORE OF EACH PANEL.
- 10) FASTENERS SHALL BE #14 SELF-TAPPING SIMS AND 1" O.D., SEAL WASHER WITH NEOPRENE INSERT. THE FASTENER LENGTH WILL BE 1" LONGER THAN THE PANEL WIDTH. ALLOY AND MINIMUM THICKNESS OF HEADER SHALL BE 6063-T6 AND 0.062 INCHES RESPECTIVELY.
- 11) STRUCTURES INCLUDED WITHIN THIS PACKAGE SHALL NOT BE ATTACHED TO "SINGLE COAT" STUCCO SYSTEMS.
- 12) SNOW LOADS PRESENTED WITHIN THESE PLANS ARE "EQUIVALENT" UNIFORM SNOW LOADS. CONSIDERATION SHALL BE GIVEN TO SITE SPECIFIC CONDITIONS INCLUDING, BUT NOT LIMITED TO, DRIFTING AND SLIDING SNOW.
- 13) PLANS ARE CONSIDERED NULL AND VOID IF THEY DO NOT CONTAIN ORIGINAL SEAL AND SIGNATURE (IN BLUE INK) BY THE ENGINEER OF RECORD (EOR) OR THE FACTORY BUILT HOUSING APPROVAL STAMP.
- 14) PANELS HAVE BEEN TESTED IN ACCORDANCE WITH ASTM E108 AND HAVE BEEN DETERMINED TO MEET THE CONDITIONS OF ACCEPTANCE FOR A "CLASS B" RATINGS.
- 15) UNLESS OTHERWISE NOTED, THE SCOPE OF THIS DRAWING PACKAGE IS LIMITED TO THE STRUCTURAL ASPECTS OF THE SUBJECT PANELS. NONSTRUCTURAL REQUIREMENTS, INCLUDING FIRE SAFETY PROVISIONS, OF THE GOVERNING CODE AND LOCAL JURISDICTION SHALL BE ADDRESSED BY THE MANUFACTURER AND/OR CONTRACTOR.
- 16) CONSIDERATION HAS BEEN GIVEN TO BE TO THE ADDITION OF ONE (1) CEILING FAN PER 4' WIDE PANEL WITH A MAXIMUM FAN WEIGHT OF 50 POUNDS. THEREFORE, THE ALLOWABLE LOADS PROVIDED ABOVE ARE IN ADDITION TO THE WEIGHT OF THE CEILING FAN.
- 17) SPANS PRESENTED WITHIN THE "ALLOWABLE SPAN TABLE (S)" ARE BASED ON UNFACTORED LOADS. THEREFORE, THE "APPLIED PRESSURE FOR DESIGN" SHALL BE DEVELOPED USING THE LOAD COMBINATIONS DEFINED IN THE CBC FOR ALLOWABLE STRESS DESIGN (ASD).



MANUFACTURING FACILITY:
 DURALUM PRODUCTS, INC.
 14001 GREYSTONE DRIVE
 ONTARIO, CA 91764-3100
 PHONE: (951) 739-4590

SHEET NO. **CA-LRP 2410** SHEET 1 OF 2
 CALIFORNIA STANDARD PLAN
LAMINATED ROOF PANEL
 0.024-1.0.pdf-0.024

DESIGNED BY: TJC
 DRAWN BY: ADM
 CHECKED BY: RWC
 AS SHOWN: AS SHOWN
 DATE: MARCH 2011

RADCO
 Approved Factory Built Housing Component

These plans have been approved pursuant to the provisions of the State of California Health and Safety Code, Division 13, Part 6 and the regulations adopted pursuant thereto. Approval herein does not authorize or approve any omission or deviation from State laws or valid local ordinances. This plan is approved as a building component and/or building system, and is applicable only to the Design Conditions as shown on the plans.

Approved Date: 1/13/2020
 By: Terence J. Cavanaugh
 Terence J. Cavanaugh
 Registration No. S 3707
 Exp. 12/31/21

Expiration Date: 1/13/2023
 Plan Approval No. RAD 55-1001

REV.	DATE	BY	COMMENT
7.00	12/08/19	TJC	UPDATE TO 2019 CBC
6.00	11/07/19	TJC	TO MOVE FACILITY
5.00	11/16/19	TJC	UPDATE TO 2019 CBC
4.00	4/15/19	TJC	ADD FAN BEAM OPTION
3.00	2/14/19	TJC	UPDATE TO 2019 CBC
2	4/13/19	TJC	ADD FAN BEAM OPTION
0	3/11/19	TJC	INITIAL ISSUE



Allowable Span Table											
3.0 Inch - 0.030" - 2.0pcf EPS - 0.030" - WITHOUT FAN BEAM INSERT											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	18'-8"		14'-9"								3/8"
Wind (Upward)	20'-2"	17'-3"	15'-5"	14'-1"	13'-1"	12'-4"	11'-8"	11'-1"	10'-7"	10'-2"	n/a
Wind (Downward)	18'-8"	16'-4"	14'-9"	13'-7"	12'-9"	12'-0"	11'-5"	10'-11"	10'-5"	10'-0"	n/a
Snow			14'-1"	13'-1"	12'-3"	11'-7"	11'-0"	10'-6"	10'-1"	9'-8"	1/2"

Allowable Span Table											
3.0 Inch - 0.030" - 2.0pcf EPS - 0.030" - WITH FAN BEAM INSERT											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	19'-10"		15'-8"								3/8"
Wind (Upward)	21'-2"	18'-0"	16'-0"	14'-8"	13'-8"	12'-9"	12'-1"	11'-5"	11'-0"	10'-7"	n/a
Wind (Downward)	19'-10"	17'-4"	15'-8"	14'-5"	13'-6"	12'-8"	12'-0"	11'-5"	10'-11"	10'-6"	n/a
Snow			14'-11"	13'-9"	12'-11"	12'-2"	11'-6"	11'-0"	10'-6"	10'-2"	1/2"

Allowable Span Table											
4.25 Inch - 0.030" - 2.0pcf EPS - 0.030" - WITHOUT FAN BEAM INSERT											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	22'-11"		18'-3"								3/8"
Wind (Upward)	23'-0"	21'-4"	19'-2"	17'-6"	16'-3"	15'-4"	14'-6"	13'-9"	13'-3"	12'-8"	n/a
Wind (Downward)	22'-11"	20'-1"	18'-3"	16'-10"	15'-9"	14'-11"	14'-2"	13'-6"	13'-0"	12'-5"	n/a
Snow			17'-7"	16'-3"	15'-3"	14'-5"	13'-7"	12'-10"	12'-2"	11'-8"	1/2"

Allowable Span Table											
4.25 Inch - 0.030" - 2.0pcf EPS - 0.030" - WITH FAN BEAM INSERT											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	23'-0"		18'-3"								3/8"
Wind (Upward)	23'-0"	22'-5"	20'-0"	18'-4"	17'-0"	15'-11"	15'-1"	14'-4"	13'-9"	13'-2"	n/a
Wind (Downward)	23'-0"	21'-3"	19'-3"	17'-9"	16'-7"	15'-5"	14'-6"	13'-8"	13'-0"	12'-5"	n/a
Snow			17'-11"	16'-2"	14'-10"	13'-9"	12'-11"	12'-3"	11'-7"	11'-1"	1/2"

Allowable Span Table											
6.0 Inch - 0.030" - 2.0pcf EPS - 0.030" - WITHOUT FAN BEAM INSERT											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	23'-0"		23'-0"								3/8"
Wind (Upward)	23'-0"	23'-0"	23'-0"	22'-9"	21'-1"	19'-10"	18'-7"	17'-6"	16'-7"	15'-10"	n/a
Wind (Downward)	23'-0"	23'-0"	23'-0"	21'-8"	20'-4"	19'-1"	17'-11"	16'-11"	16'-1"	15'-5"	n/a
Snow			22'-2"	20'-0"	18'-5"	17'-1"	16'-0"	15'-2"	14'-5"	13'-9"	1/2"

Allowable Span Table											
6.00 Inch - 0.030" - 2.0pcf EPS - 0.030" - WITH FAN BEAM INSERT											
Loading Type	Applied Pressure for Design										Minimum Panel Slope (Per Foot of Projection)
	10 psf	15 psf	20 psf	25 psf	30 psf	35 psf	40 psf	45 psf	50 psf	55 psf	
Live	23'-0"		23'-0"								1/4" / foot
Wind (Upward)	23'-0"	23'-0"	23'-0"	20'-7"	18'-9"	17'-4"	16'-3"	15'-3"	14'-6"	13'-9"	n/a
Wind (Downward)	23'-0"	23'-0"	23'-0"	21'-3"	19'-6"	18'-2"	17'-0"	16'-1"	15'-4"	14'-7"	n/a
Snow			21'-1"	19'-0"	17'-6"	16'-3"	15'-3"	14'-5"	13'-8"	13'-1"	3/8" / foot

SPAN TABLE NOTES:

- (1) THE APPLIED PRESSURE FOR DESIGN (COLUMN HEADINGS) SHOWN IN THE TABLE IS AN "EQUIVALENT" UNIFORM LOAD. CONSIDERATION SHALL BE GIVEN TO LOAD COMBINATIONS PRESENTED IN THE CODE AND SITE SPECIFIC CONDITIONS SUCH AS DRIFTING AND SLIDING SNOW. AFTER DETERMINATION OF THE APPLIED PRESSURE, THE ALLOWABLE PANEL SPAN IS DETERMINED FOR EACH LOAD TYPE USING THE GREATEST CALCULATED PRESSURE FOR ALL LOAD COMBINATIONS WHICH INCLUDE THE SPECIFIC LOAD TYPE. THIS PROCESS IS REPEATED FOR EACH OF THE FOUR (4) LOAD TYPES. THE MINIMUM ALLOWABLE SPAN CALCULATED FOR EACH OF THE 4 LOAD TYPES SHALL BE THE "ALLOWABLE SPAN" USED FOR THE PROPOSED APPLICATION.
- (2) PANEL SPANS ARE BASED ON A MAXIMUM TEMPERATURE DIFFERENTIAL BETWEEN THE TWO PANEL SKINS OF 10 DEGREES FAHRENHEIT.
- (3) FASTENERS FOR BEAM AND WALL SUPPORTS SHALL BE #14 SMS WITH 1.0" O.D. PLATE WASHER AND NEOPRENE INSERT. MAXIMUM FASTENER SPACING SHALL BE 12-INCHES. LENGTH OF FASTENER SHALL BE AT LEAST 1 INCH LONGER THAN ROOF PANEL THICKNESS. THE FASTENERS HAVE A PULL-THROUGH CAPACITY OF 110 LBS FOR THE SPECIFIED FASTENER USING A FACTOR OF SAFETY OF 3.0. CAPACITY OF FASTENER AND CONNECTION OF THE FASTENER TO THE SUPPORTING STRUCTURE IS OUTSIDE THE SCOPE OF THIS ENGINEERING.
- (4) MINIMUM PANEL SLOPES ARE BASED ON PANEL DEFLECTION ONLY. INCREASED SLOPES WILL BE REQUIRED WHERE PANEL ACCESSORIES, SUCH AS MULLIONS OR FLASHING, CAN INCREASE PONDING CAUSED BY IRREGULARITIES IN THE WATER FLOW PATH.
- (5) WHEN PANELS WITHOUT AN INTERNAL FAN BEAM ARE SUBJECT TO A 300 POUND MAINTENANCE LOAD (AS DEFINED IN THE CODE), MAXIMUM SPAN SHALL BE LIMITED TO 22'-4" FOR THE 3-INCH AND 23'-0" FOR THE 4.25-INCH AND 6-INCH, OR THAT INDICATED IN THE SPAN TABLE, WHICHEVER IS LESS. WHEN PANELS WITH AN INTERNAL FAN BEAM ARE SUBJECT TO A 300 POUND MAINTENANCE LOAD (AS DEFINED IN THE CODE), MAXIMUM SPAN SHALL BE LIMITED TO 23'-0" FOR THE 3-INCH, 4.25-INCH, AND 6-INCH OR THAT INDICATED IN THE SPAN TABLE, WHICHEVER IS LESS.
- (6) THICKER PANEL CONFIGURATIONS ARE ALLOWED, PROVIDED THEY ARE MANUFACTURED WITH THE SAME COMPONENTS, AND THE ABOVE SPAN LIMITATIONS ARE FOLLOWED. EXTRAPOLATION TO LONGER SPANS IS PROHIBITED.
- (7) UNLESS OTHERWISE NOTED, THE MAXIMUM EAVE PROJECTION OF THE ROOF SYSTEM IS 24-INCHES.

MANUFACTURING FACILITY:
 DURALUM PRODUCTS, INC.
 4001 GREYSTONE DRIVE
 ONTARIO, CA 91764-3100
 PHONE: (951) 736-4500

SHEET NO.
 CA-LRP
 3220
 SHEET 2 OF 3

CALIFORNIA STANDARD PLAN
 LAMINATED ROOF PANEL
 0.032-2.0pcf-0.032
 DESIGNED BY: TJC
 DRAWN BY: ADM
 CHECKED BY: RMC
 SCALE: AS SHOWN
 DATE: MARCH 2011



Approved Factory Built Housing Component

These plans have been approved pursuant to the provisions of the State of California Health and Safety Code, Division 13, Part 6 and the regulations adopted pursuant thereto. Approvals herein does not authorize or approve any omission of deviation from State laws or valid local ordinances. This plan is approved as a building component and/or building system, and is applicable only to the Design Conditions as shown on the plans.

Approved Date: 1/7/2020
 By: Christopher Spurr
 Expiration Date: 1/7/2023
 Plan Approval No. RAD 55-1002

THIS BAR SCALES EXACTLY ONE HALF INCH AT FULL SCALE
 DURALUM PRODUCTS, INC.
 4001 GREYSTONE DRIVE
 ONTARIO, CA 91764-3100
 PHONE: (951) 736-4500

500	5/19	TJC	ADD FAN BEAM & OPTIONAL SPAN
400	1/17	TJC	TO MOVE FACILITY
300	1/10	TJC	UPDATE TO 2010 CBC
200	4/15	TJC	ADD PANEL THICKNESS & INSULATION
100	2/14	TJC	UPDATE TO 2013 CBC
0	3/11	TJC	INITIAL ISSUE
REV.	DATE	BY	COMMENT

DATE SIGNED: 12/06/19





2485 RAILROAD ST.
CORONA, CA 92880
951.736.4500



DATE SIGNED: June 27, 2022



26030 ACERO, SUITE 200
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

IAPMO 195 V 3.1.2

THESE PRODUCT DRAWINGS REPRESENT THE DESIGNS EVALUATED FOR RECOGNITION AS PART OF IAPMO UES EVALUATION REPORT ER-254. THESE DRAWINGS TOGETHER WITH ER-254 ARE COLLECTIVELY REFERRED TO IN THIS DOCUMENT AS THIS EVALUATION REPORT

EXPIRES ON: JUNE 30, 2023

REVISIONS		
MARK	DATE	DESCRIPTION

4 STEL JOB # DA02-02

DATE 07/08/19

DRAWN BY RC

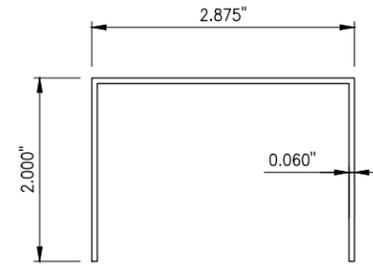
CHECKED MDS

IAPMO 195 V 3.1.2

LATTICE STRUCTURES:
CONNECTORS

L4.3

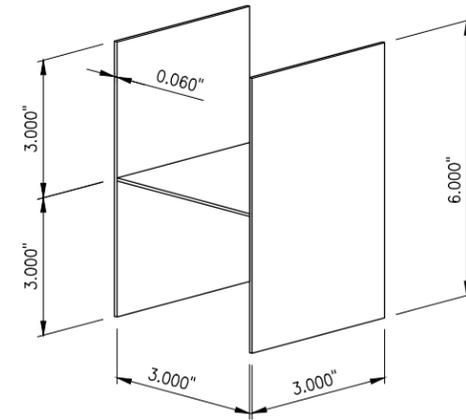
ALUM. ALLOY 6063-T6



NOTE:
BRACKET IS 2 3/4" LONG

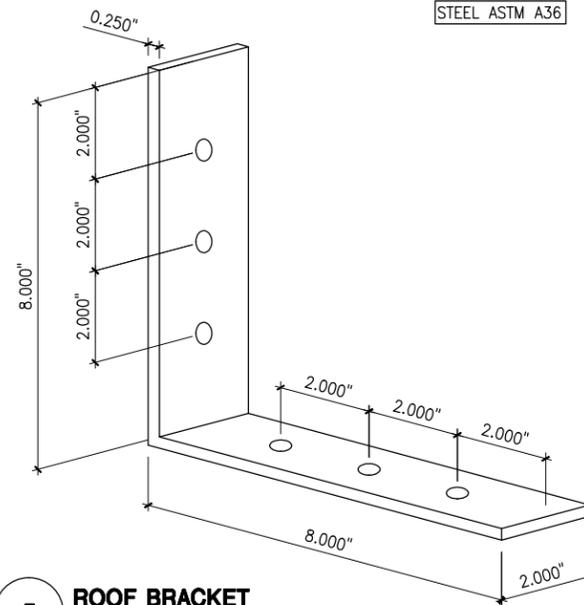
4 "U" BRACKET AT COLUMN
6"=1'-0"

ALUM. ALLOY 6063-T6



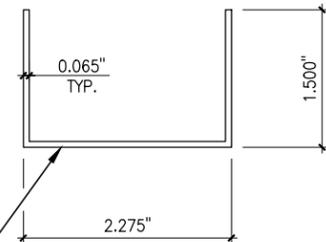
1 "H" BRACKET
N.T.S.

STEEL ASTM A36



5 ROOF BRACKET
L8 x 8 x 1/4 x 2"
3"=1'-0"

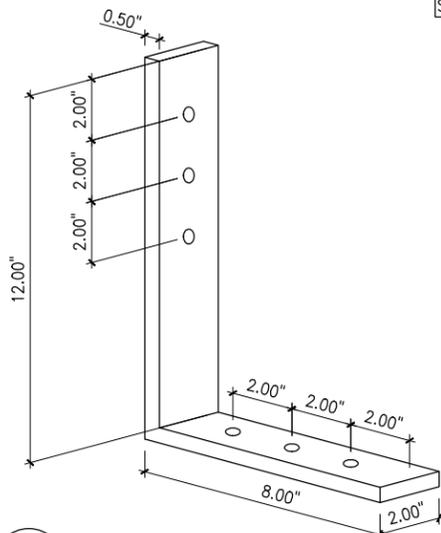
ALUM. ALLOY 6063-T6



LENGTH = 2 1/2" @ SINGLE 3 x 8 OR 3 x 3 BEAM BELOW
LENGTH = 6 3/4" @ DOUBLE 2 x 6 1/2 BEAM BELOW
LENGTH = 8 3/4" @ DOUBLE 3 x 8 BEAM BELOW

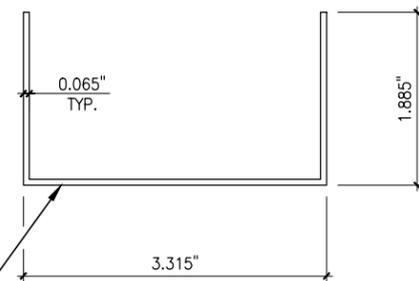
2 "U" BRACKET
2 x 6-1/2" RAFTER TO BEAM
6"=1'-0"

STEEL ASTM A36



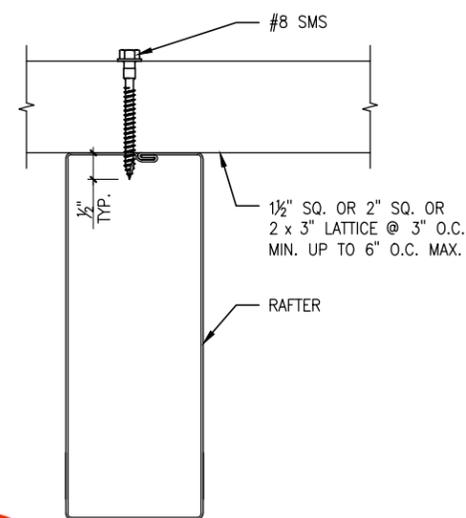
6 SNOW BRACKET
L12 x 8 x 1/2 x 2"
2"=1'-0"

ALUM. ALLOY 6063-T6

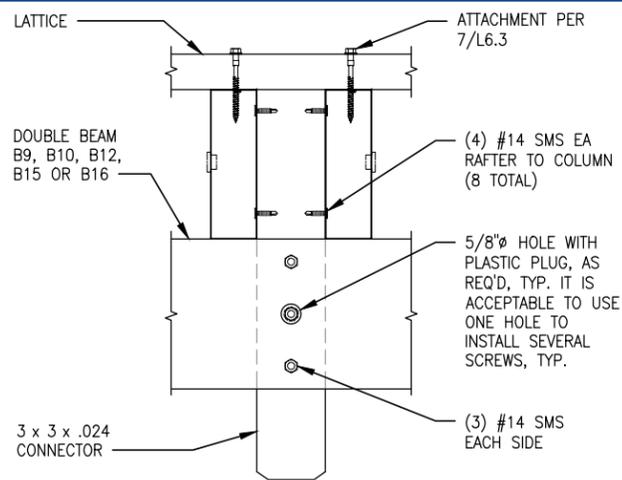


LENGTH = 2 1/2" @ SINGLE 3 x 8 OR 3 x 3 BEAM BELOW
LENGTH = 6 3/4" @ DOUBLE 2 x 6 1/2 BEAM BELOW
LENGTH = 8 3/4" @ DOUBLE 3 x 8 BEAM BELOW

3 "U" BRACKET
3 x 8 RAFTER TO BEAM
6"=1'-0"

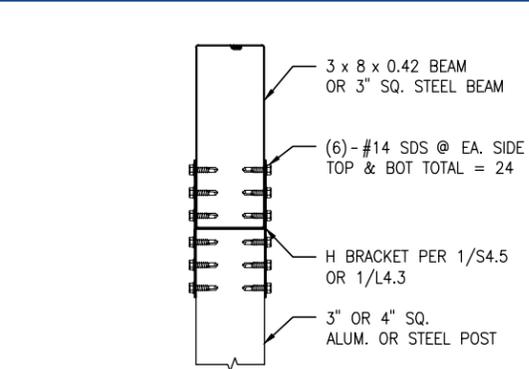


7 LATTICE TUBE TO RAFTER
3"=1'-0"



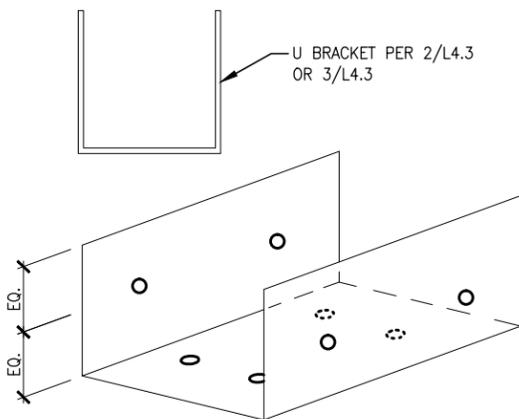
NOTE:
THIS DETAIL IS NOT TO BE USED IN LIEU OF A COLUMN.

4 STUB COLUMN TO DBL BEAM CONNECTION
1-1/2"=1'-0"

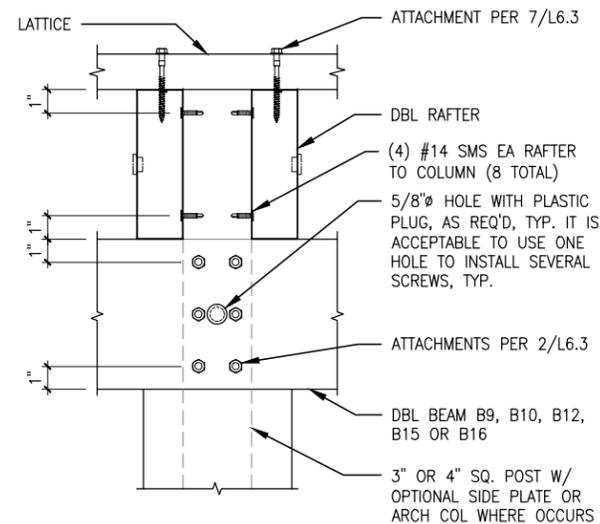


NOTES:
THIS DETAIL IS TO BE USED AS AN ALTERNATE TO DETAIL 3/S6.3

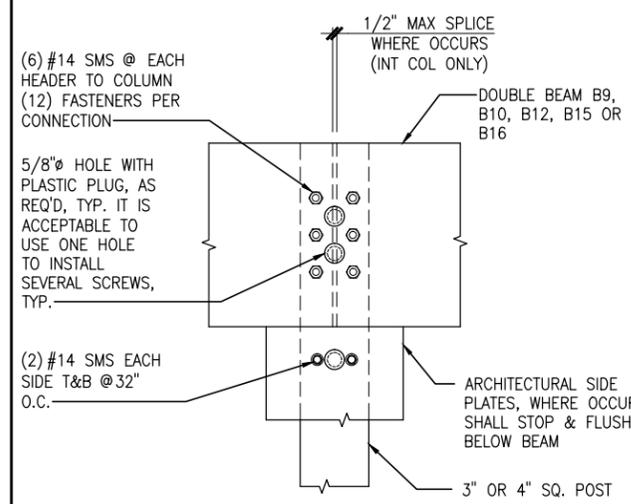
1 'H' BRACKET TO POST
1-1/2"=1'-0"



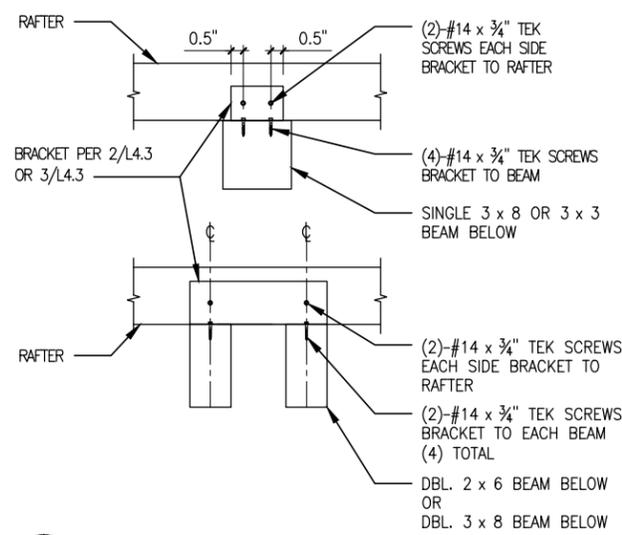
BRACKET
SCALE: 6"=1'-0"



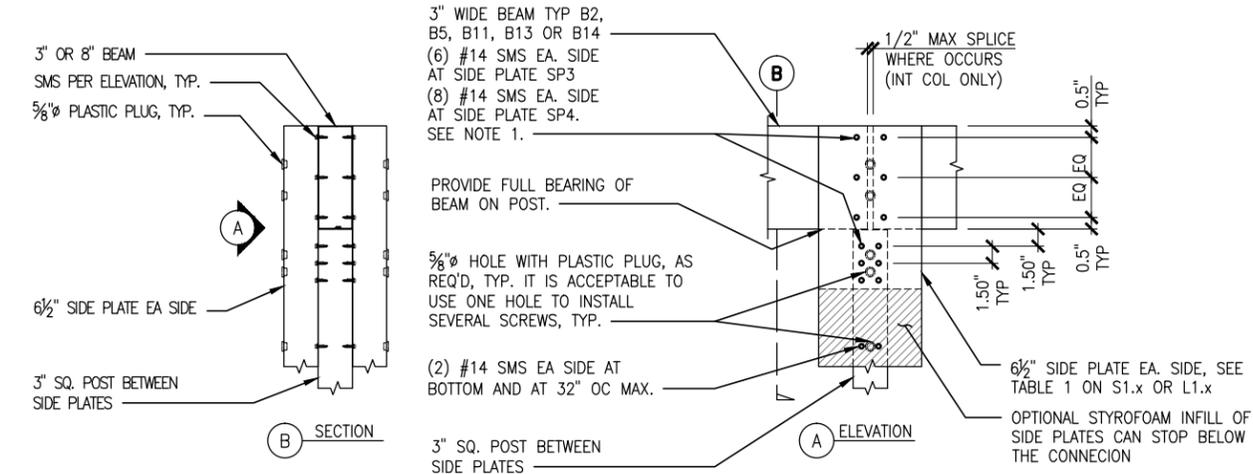
5 DBL RAFTER TO DBL BEAM CONNECTION
1-1/2"=1'-0"



2 DBL BEAM TO COL
1-1/2"=1'-0"



8 BEAM TO RAFTER BRACKET CONNECTION
1-1/2"=1'-0"



3 BEAM TO POST CONNECTION
3/4"=1'-0"

NOTES:
AT COLUMN B2, ADJUST SCREW LOCATION TO LOCATE SCREWS INTO THE FLAT PORTION / VERTICAL WALL OF BEAM



2485 RAILROAD ST.
CORONA, CA 92880
951.736.4500



DATE SIGNED: June 27, 2022



26030 ACERO, SUITE 200
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

IAPMO 195 V 3.1.2

THESE PRODUCT DRAWINGS REPRESENT THE DESIGNS EVALUATED FOR RECOGNITION AS PART OF IAPMO UES EVALUATION REPORT ER-254. THESE DRAWINGS TOGETHER WITH ER-254 ARE COLLECTIVELY REFERRED TO IN THIS DOCUMENT AS THIS EVALUATION REPORT

EXPIRES ON: JUNE 30, 2023

REVISIONS		
MARK	DATE	DESCRIPTION

4 STEL JOB # DA02-02

DATE 07/08/19

DRAWN BY RC

CHECKED MDS

IAPMO 195 V 3.1.2

LATTICE STRUCTURES:
CONNECTION DETAILS

L6.3