

BERRIOS RESIDENCE

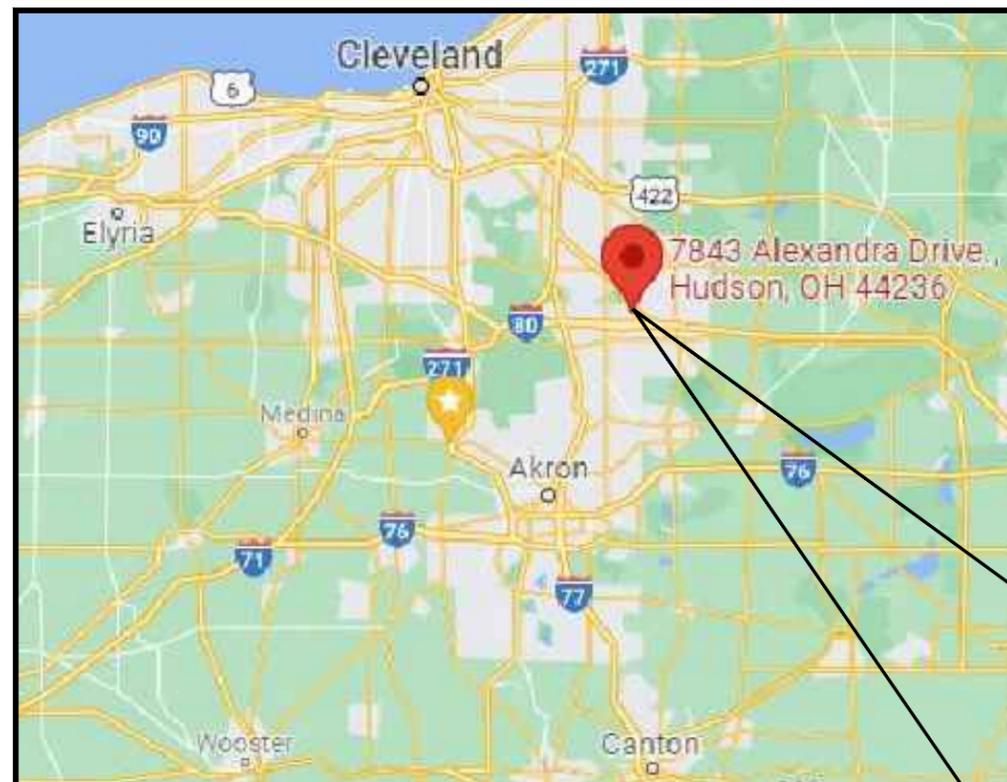
7843 ALEXANDRA DRIVE

HUDSON, OH 44236



3453 West 140th Street
 Cleveland, OH 44111
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VICINITY MAP

DRAWING INDEX

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ABBREVIATIONS

- (E) EXISTING
- TYP TYPICAL
- O.C. OFF CENTER
- C.C. CENTER TO CENTER



REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR PERMIT	11/22/2021

BRIGHT COVERS ADDITION
 BERRIOS RESIDENCE

DANIEL BERRIOS
 7843 ALEXANDRA DRIVE
 HUDSON, OH 44236

TITLE SHEET

PREPARED BY:
Translucent LLC dba BrightCovers
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Dwn: SL	Scale: AS NOTED
Dwg No. 1	Rev. 0

CITY OF HUDSON
 SUMMIT COUNTY
 PARCEL ID: 3009850
 ACRES: 0.462

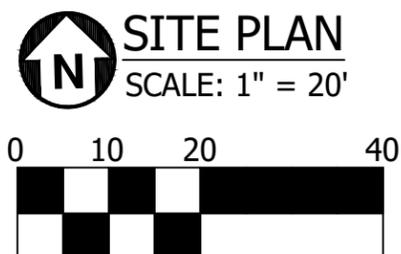


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PROPOSED 16x14
 BRIGHTCOVERS
 ADDITION



NOTE:
 INFORMATION FOR THIS DRAWING
 WAS OBTAINED THROUGH THE
 SUMMIT COUNTY GIS PARCEL
 VIEWER. ALL MEASUREMENTS TO
 BE FIELD VERIFIED.

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SITE PLAN

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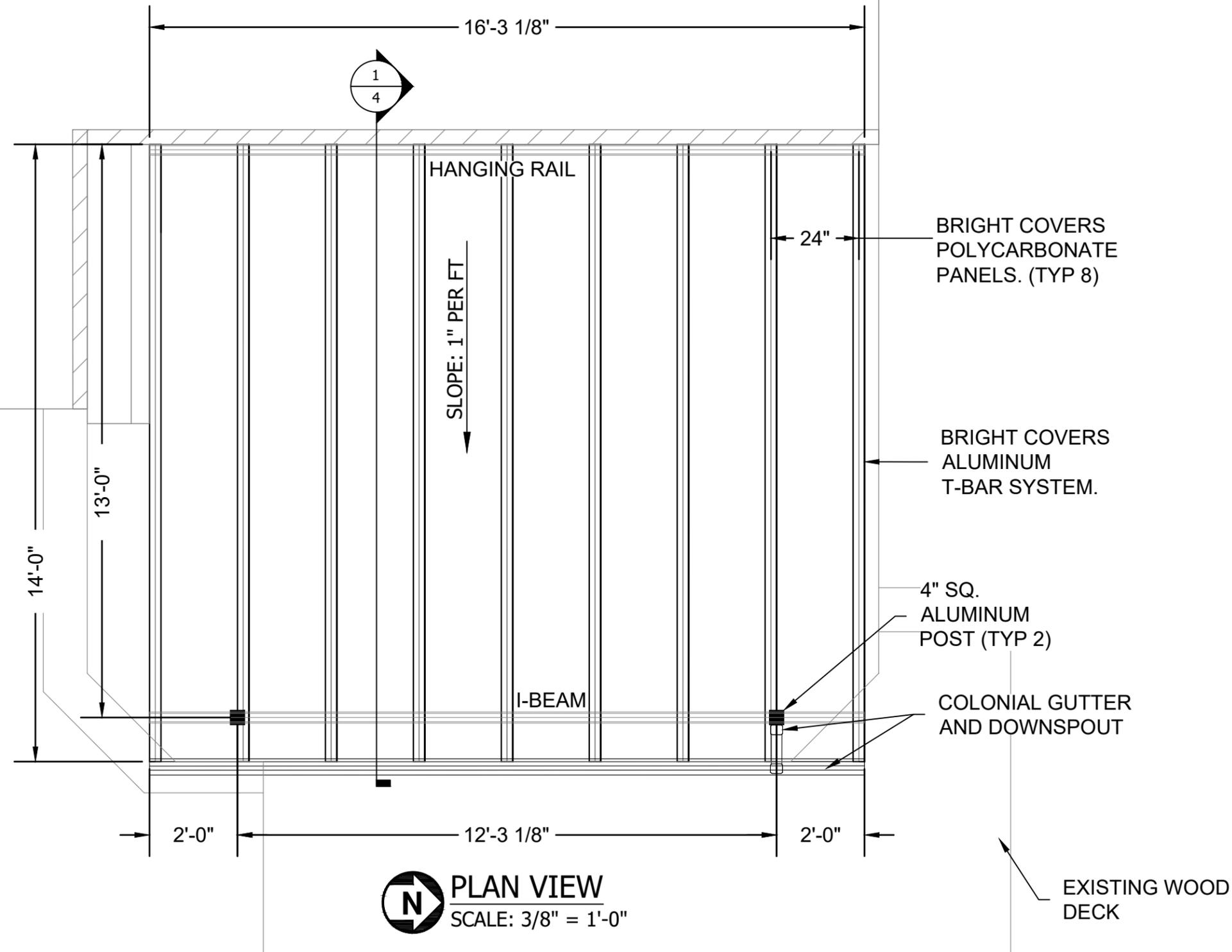
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PLAN VIEW
 SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. COVER SHALL HAVE A BRONZE ALUMINUM FRAME AND WHITE POLYCARBONATE PANELS.
2. COVER SHALL BE ATTACHED TO EXTERIOR WALL THRU SIDING AND EXTEND OVER EXISTING DECK.
3. 4" SQ ALUMINUM POSTS TO BE ANCHORED INTO EXISTING DECK JOISTS WITH BLOCKING.
4. ALL MEASUREMENTS TO BE FIELD VERIFIED BY INSTALLERS.

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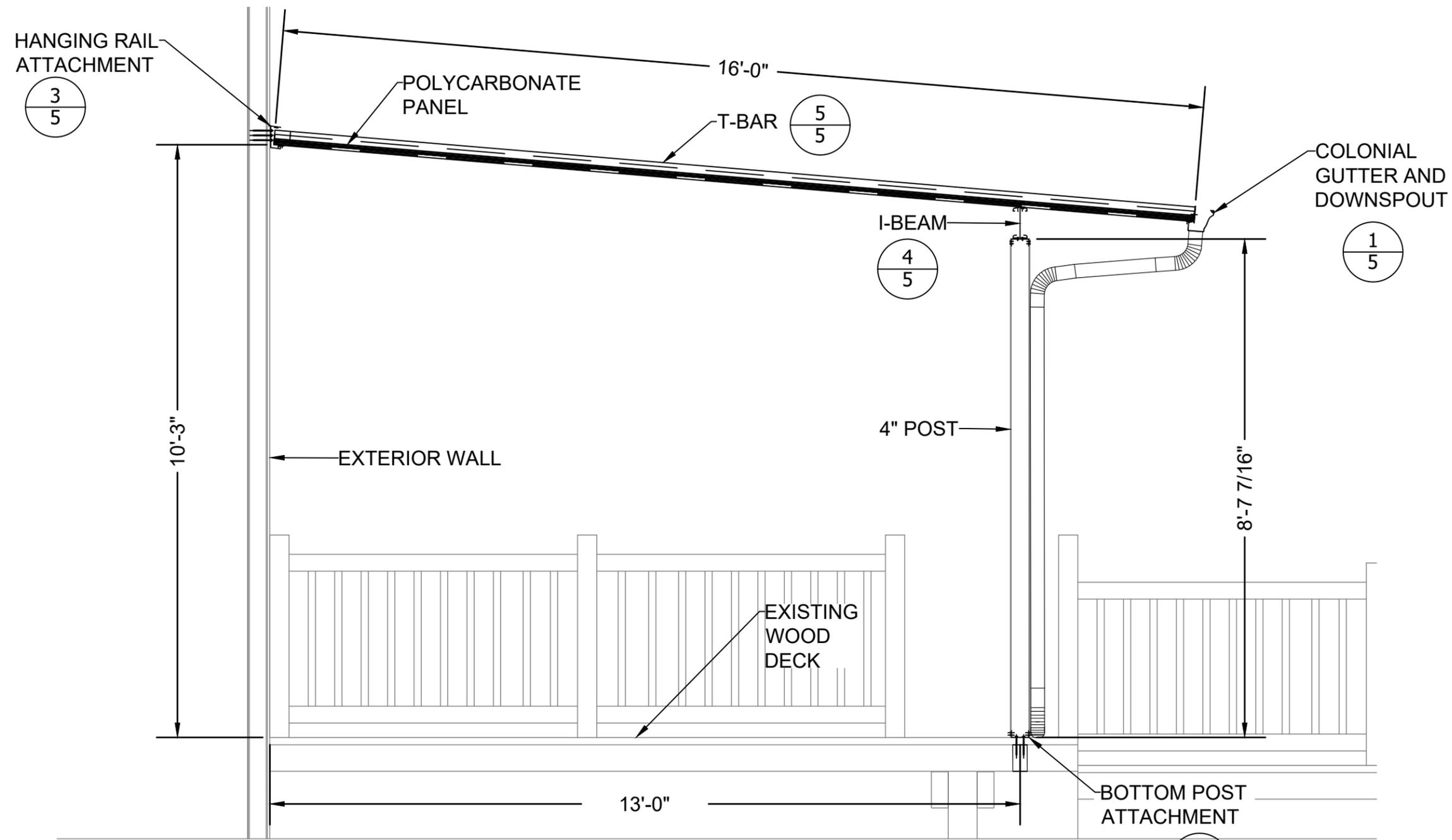
**BRIGHT COVERS ADDITION
 BERRIOS RESIDENCE**

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 HUDSON, OH 44236**

**CONSTRUCTION
 PLAN**

Dwn: SL | Scale: AS NOTED

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

GENERAL NOTES

1. COVER SHALL HAVE A BRONZE ALUMINUM FRAME AND WHITE POLYCARBONATE PANELS.
2. COVER SHALL BE ATTACHED TO EXTERIOR WALL THRU SIDING AND EXTEND OVER EXISTING DECK.
3. 4" SQ ALUMINUM POSTS TO BE ANCHORED INTO EXISTING DECK JOISTS WITH BLOCKING.
4. ALL MEASUREMENTS TO BE FIELD VERIFIED BY INSTALLERS.

REVISIONS

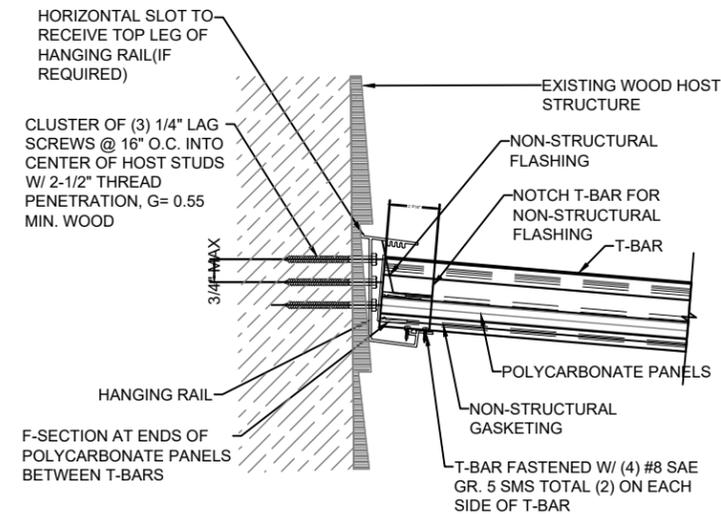
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**BRIGHT COVERS ADDITION
BERRIOS RESIDENCE**

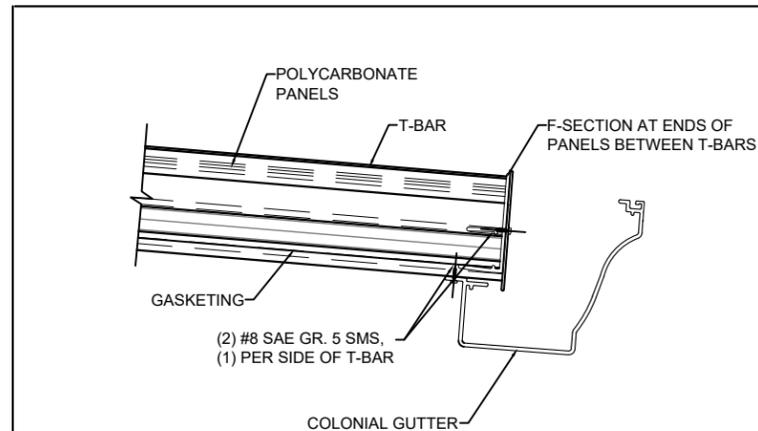
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SECTION PLAN

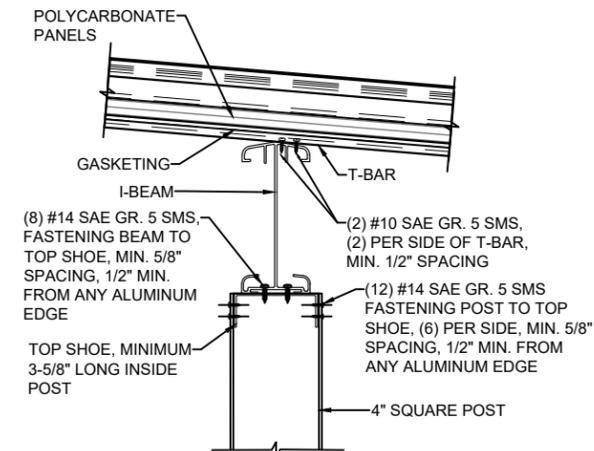
Dwn: SL	Scale: AS NOTED
Dwg No. 4	Rev. 0



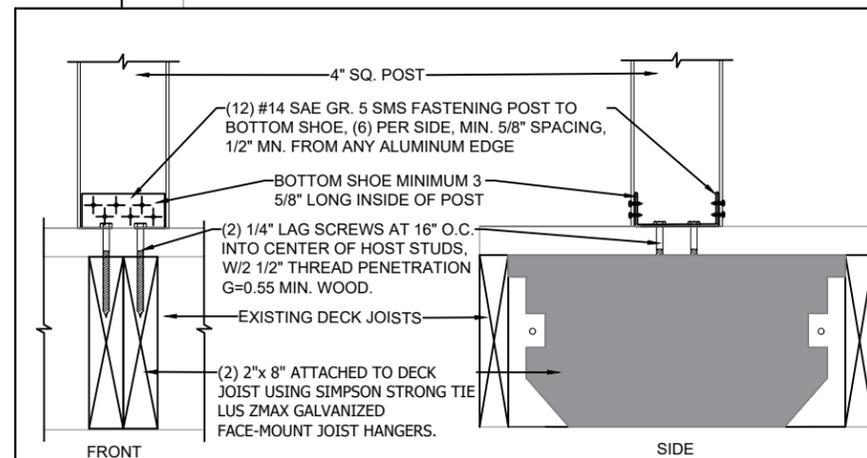
3 **HANGING RAIL ATTACHMENT TO WOOD HOST**
N.T.S



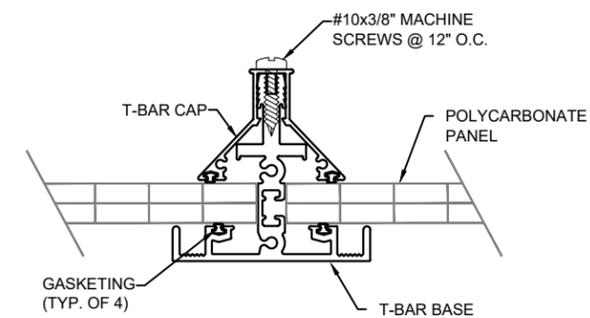
1 **GUTTER ATTACHMENT DETAIL**
N.T.S



4 **T-BAR TO I-BEAM, TO 4\"/>**



3 **POST ATTACHMENT TO EXISTING DECK JOISTS**
N.T.S



5 **T-BAR DETAIL**
N.T.S

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TYPICAL DETAILS

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ALUMINUM COMPONENT PROPERTIES



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SPECIFICATIONS

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Dwg No. 6 Rev. 0

Lexan* International Building Code (IBC) Compliance

LEXAN* Thermoclear and Corrugated Sheet products meet the International Code Council (ICC) requirements for light transmitting plastics as outlined in chapter 26 of the IBC. These requirements include standards for self-ignition, burn rate, smoke density, flame spread and smoke development.

The IBC limits the use of approved plastic materials. Limitations include the size of each panel, distance between panels, as well as building type, height, and location. Consult the prevailing code to ensure compliance.

Self-Ignition Temperature (ASTM D 1929)

Plastic material must have a self-ignition temperature of 650 F or greater. LEXAN* Thermoclear and Corrugated Sheet have a self-ignition temperature of about 1000 F.

Horizontal Burn Rate (ASTM D 635)

Plastic material that have a burning extent of 1 inch or less have a CC1 classification. Plastic materials that have a burning rate of 2.5 inches per minute or less have a CC2 classification. LEXAN* Thermoclear and Corrugated sheet have a CC1 classification since they self extinguish between 0.4 and 1 inch.

Smoke Density (ASTM D 2843)

Plastic material must have a smoke density rating no greater than 75 where tested in the thickness intended for use. LEXAN* Thermoclear, Thermoclick, and Corrugated sheet typically generate a smoke density value between 40-73.

Flame Spread and Smoke Development (ASTM E84)

In order to obtain the Flame Spread Classification, results must fall into a range between 0 and 25 to be Class A, 26-75 for Class B, and 76-200 for Class C. In all cases, Smoke Development must be less than 450. Lexan* Thermoclear, Thermoclick, and Corrugated sheet products have a class A classification.

<p>* Registered trademark(s) of SABIC Innovative Plastics BV 1 Plastics Avenue Pittsfield, MA 01201 USA T-413-448-7702 mike.laurin@sabic-ip.com www.sabic-ip.com</p>	<p>ANY SALE OF PRODUCTS OR DELIVERY OF CUSTOMER SUPPORT AND ADVICE BY SABIC INNOVA-TIVE PLASTICSHOLDING BV, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), IS MADE EXCLUSIVELY UNDER SELLER'S STANDARD CONDITIONS OF SALE which can be located at http://www.sabic-ip.com. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OF ITS PRODUCTS IN ANY CUSTOMER'S APPLICATION. Each customer should determine the suitability of SELLER'S materials for the customer's particular use through appropriate testing and analysis. SABIC Innovative Plastics is a trademark of SABIC Holding Europe BV.</p>
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MEMBER	DIE NO.	ALLOY	AREA (in ²)	S _x (in ³)	S _y (in ³)	I _x (in ⁴)	I _y (in ⁴)
Side Fascia	24089	6063-T5	0.609	0.473	0.0709	1.131	0.071
Heavy Duty T-Bar	-	6061-T6	1.424	0.607	0.428	1.201	0.672
Square Post	24250	6061-T6	0.832	0.713	0.713	0.980	0.980
T-Bar Cap	24251	6061-T6	0.392	0.166	0.110	0.168	0.130
F-Section	24252	6063-T5	0.146	0.008	0.031	0.004	0.029
Hanging Rail	24255	6061-T6	1.064	1.349	0.348	3.264	0.678
Top Shoe	24729	6061-T6	1.064	0.118	0.450	0.131	0.563
Bottom Shoe	24882	6061-T6	0.846	0.140	0.657	0.178	1.810
Colonial Gutter	30111	6063-T5	1.229	0.430	1.890	1.279	5.807
Heavy Duty I-Beam	30278	6061-T6	1.680	3.426	0.691	11.357	1.037

NOTES:

- WHERE HEAVY DUTY I-BEAM IS MENTIONED, THIS INCLUDES ALL BEAMS; REINFORCED, 6" CHANNEL BEAMS AND 8" CHANNEL BEAMS.

PANEL TOLERANCES

GAUGE/WEIGHT	STRUCTURE	WEIGHT	GAUGE	WIDTH	LENGTH < 20FT/6M	LENGTH > 20FT/6M
0.177in 0.205lb/ft ² 4.5mm 1.0 kg/m ²	2RS	+/- 1%	+/-7%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.236in 0.266 lb/ft ² 6.0mm 1.3 kg/m ²	2RS	+/- 1%	+/-5%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.315in 0.348 lb/ft ² 8.0mm 1.7 kg/m ²	2RS/3TS	+/- 1%	+/-5%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.394in 0.409 lb/ft ² 16.0mm 2.0 kg/m ²	2RS/3TS	+/- 1%	+/-5%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.63in 0.573 lb/ft ² 16.0mm 2.8 kg/m ²	3TS	+/- 2%	+/-3%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.787in 0.614 lb/ft ² 20.0mm 3.0 kg/m ²	3TS	+/- 2%	+/-3%	+/-0.5%	+0.472in +12mm	+1.81in +30mm
0.984in 0.655 lb/ft ² 25.0mm 3.2 kg/m ²	3TS	+/- 2%	+/-3%	+/-0.5%	+0.472in +12mm	+1.81in +30mm

NOTES:

- THE LEXAN THERMOCLEAR 15 POLYCARBONATE SHEETS (TM) ARE MANUFACTURED BY SAUDI BASIC INDUSTRIES CORPORATION (SABIC).
- ALL TESTS, INCLUDING TOLERANCES, IMPACT TESTING, WEATHER RESISTANCE AND FIRE RATING, ON THE LEXAN THERMOCLEAR 15 POLYCARBONATE SHEETS (TM) HAVE BEEN CONDUCTED BY SABIC. ALL CONCLUSIONS AND CALCULATIONS HEREIN ARE PROVIDED BY SABIC PRODUCT DATA.

SPECIFICATIONS

- DESIGN CRITERIA
 - THE BRIGHTCOVERS CANOPY SYSTEM IS A PRE-MANUFACTURED PRODUCT AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS SET FORTH IN THE 2019 OHIO RESIDENTIAL CODE (ORC) AND THE 2017 OHIO BUILDING CODE (OBC).
 - ALL STRUCTURAL ELEMENTS AND SYSTEMS MADE OF ALUMINUM CONFORM TO AA ALUMINUM DESIGN MANUAL (ADM) 2020 REQUIREMENTS.
 - ALL ALUMINUM ALLOYS CONFORM TO THE AA ALUMINUM STANDARDS AND DATA 2017.
 - THE APPLICABLE STRUCTURAL LOADS HAVE BEEN TAKEN INTO ACCOUNT IN ACCORDANCE WITH THE ASCE 7-10 (MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES).

SCHEDULE 2

T-BAR SPANS					
BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	PANEL SPAN	ALLOWABLE T-BAR SPAN	ALLOWABLE T-BAR OVERHANG
115	30	B	24"	137.83"	36"
		C	24"	133.88"	36"

SCHEDULE 1

DESIGN PRESSURES (PSF)					
BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	BEAMS AND T-BARS	COLUMNS	LATERAL DESIGN PRESSURES
115	30	B	+35.6/-11.9	+34.8/-10.5	+18.1/-12.1
		C	+37.7/-14.8	+36.7/-13.2	+22/-14.7

NOTES:

- WIND PRESSURES HAVE BEEN DETERMINED BASED ON ASCE 7-10, ROOF OVER OPEN STRUCTURE, WORST CASE WIND FLOW (CLEAR VS. OBSTRUCTED), 15' MRH, 5° MAXIMUM SLOPE, zone 3 for C&C LOADS.
- UNLESS OTHERWISE NOTED HEREIN, DESIGN PRESSURES ARE BASED ON LOAD COMBINATIONS PER 2021 INTERNATIONAL BUILDING CODE SECTION 1605.3.1.

SCHEDULE 3

PANEL SPANS			
BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	ALLOWABLE PANEL SPAN
115	30	B	32"
		C	32"

NOTES:

- UNLESS OTHERWISE NOTED, DEFLECTION LIMIT OF L/60 USED FOR DETERMINATION OF ALLOWABLE SPANS PER 2021 INTERNATIONAL BUILDING CODE TABLE 1604.3 FOOTNOTE h.
- UNLESS OTHERWISE NOTED HEREIN, WIND LOAD HAS BEEN MULTIPLIED BY 0.7 PER 2021 INTERNATIONAL BUILDING CODE TABLE 1604.3 FOOTNOTE f FOR THE DETERMINATION OF DEFLECTIONS.

SCHEDULE 4a

I-BEAM SPANS								
BASIC WIND SPEED	LIVE/SNOW LOAD	EXPOSURE	T-BAR SPAN	ALLOWABLE BEAM SPAN INTERIOR	ALLOWABLE BEAM SPAN END W/ 0' OH	ALLOWABLE BEAM SPAN END W/ 1' OH	ALLOWABLE BEAM SPAN END W/ 2' OH	ALLOWABLE BEAM SPAN END W/ 3' OH
115	30	B	60"	167.80"	216.00"	200.56"	176.87"	159.99"
			72"	153.18"	216.00"	187.60"	167.80"	153.18"
			84"	141.81"	200.56"	176.87"	159.99"	147.17"
			96"	132.65"	187.60"	167.80"	153.18"	141.81"
			108"	125.07"	176.87"	159.99"	147.17"	137.01"
			120"	118.65"	167.80"	153.18"	141.81"	132.65"
			132"	113.13"	159.99"	147.17"	137.01"	128.969"
			144"	108.31"	153.18"	141.81"	132.65"	125.07"
			156"	104.06"	147.17"	137.01"	128.69"	121.73"
		168"	100.28"	141.81"	132.65"	1425.07"	118.658"	
		180"	96.88"	137.01"	128.69"	121.07"	115.79"	
		C	60"	162.98"	216.00"	194.80"	171.80"	155.40"
			72"	148.78"	210.41"	182.22"	162.98"	148.78"
			84"	137.74"	194.80"	171.80"	155.40"	142.94"
			96"	128.85"	182.22"	162.98"	148.78"	137.74"
			108"	121.48"	171.80"	155.40"	142.94"	133.07"
			120"	115.25"	162.98"	148.78"	137.74"	128.85"
			132"	109.88"	155.40"	142.94"	133.07"	125.00"
144"	105.20"		148.78"	137.74"	128.85"	121.48"		
156"	101.08"		142.94"	133.07"	125.00"	118.24"		
168"	97.40"	137.74"	128.85"	121.48"	115.25"			
180"	94.10"	133.07"	125.00"	118.24"	112.47"			



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WIND AND SNOW LOAD TABLES

Dwn: SL Scale: AS NOTED

Dwg No. Rev.

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