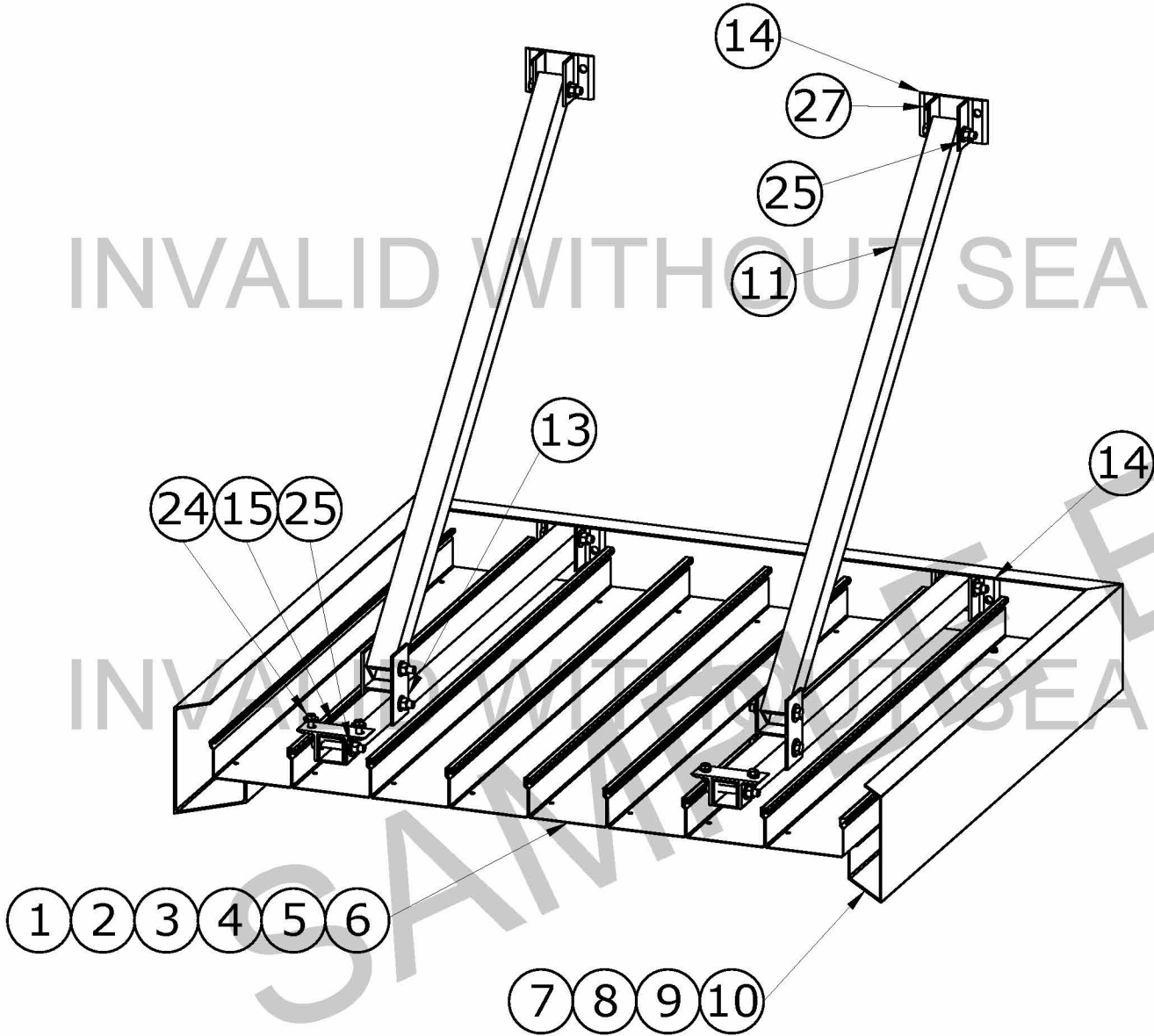


ALUMINUM CANOPY WITH OVERHEAD SUPPORT SYSTEM MASTER PLAN



ALUMINUM OVERHEAD CANOPY ISOMETRIC

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VALID AS A GENERIC SEALED MASTER PLAN FOR UP TO (2) INSTALLED CANOPIES AT (1) RESIDENTIAL OR COMMERCIAL LOCATION. SITE SPECIFIC/ADDITIONAL ENGINEERING REQUIRED THEREAFTER.

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DESIGN NOTES:

MAXIMUM DESIGN PRESSURE:

±20 PSF ROOF LIVE LOAD

**ROOF LIVE LOAD TO CONSIDER ALL SITE-SPECIFIC CONDITIONS INCLUDING BUT NOT LIMITED TO WIND & SNOW LOADS*

DESIGN CONDITIONS ARE NOT TO EXCEED THE FOLLOWING DESIGN CRITERIA:
MAX WIND SPEED: 175 MPH
EXTREME EXPOSURE CATEGORY: C
*SITE SPECIFIC PRESSURES TO BE CALCULATED SEPARATELY PER CODES AND STANDARDS STATED HEREIN & INCLUDED WITH THIS SEALED MASTER PLAN

GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020). ALSO APPLICABLE FOR THE FBC 6TH EDITION (2017), IBC/IRC (2015 & 2018), AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS ARE LISTED THEN MOST STRINGENT APPLIES. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE.
- WIND LOADS ACTING SIMULTANEOUSLY WITH ROOF LIVE LOAD OF 20 PSF. DESIGN PRESSURES HAVE BEEN BASED ON LOAD COMBINATIONS PER THE FLORIDA BUILDING CODE SEVENTH EDITION (2020). DEFLECTION LIMIT OF L/60 USED FOR DETERMINATION OF ALLOWABLE DECKING SPANS PER THE 2015 ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) TABLE 1604.3 FOOTNOTE h.
- THIS DOCUMENT SHALL NOT BE REPRODUCED WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL OF THE CERTIFYING P.E. SELECTED ABOVE. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- THE EXISTING STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED ALUMINUM CANOPY WITH OVERHEAD SUPPORT SYSTEM STRUCTURE AS DETERMINED BY OTHERS OR BY SPECIAL ENGINEERING BY UNDERSIGNED ENGINEER ATTACHED HERETO. NO WARRANTY IS CONTAINED HEREIN.
- SYSTEM COMPONENTS SHALL BE AS NOTED HEREIN. ALL REFERENCES TO EXTRUSIONS AND INSTALLATION SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS AS SUMMARIZED HEREIN.
- NO CERTIFICATION IS OFFERED FOR WATERPROOFING, SIZING, OR OPERATION OF GUTTERS.
- ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
- ALL FASTENERS TO BE #14 OR GREATER AND 304/410 SS UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 5.2.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- FOR ALUMINUM MEMBERS ALL ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE.
- ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE A.3.6. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY, AND METHODS OF CONSTRUCTION AS SET FORTH IN THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. EMBEDMENT SHALL BE AS NOTED HEREIN. EMBEDMENT AND MINIMUM EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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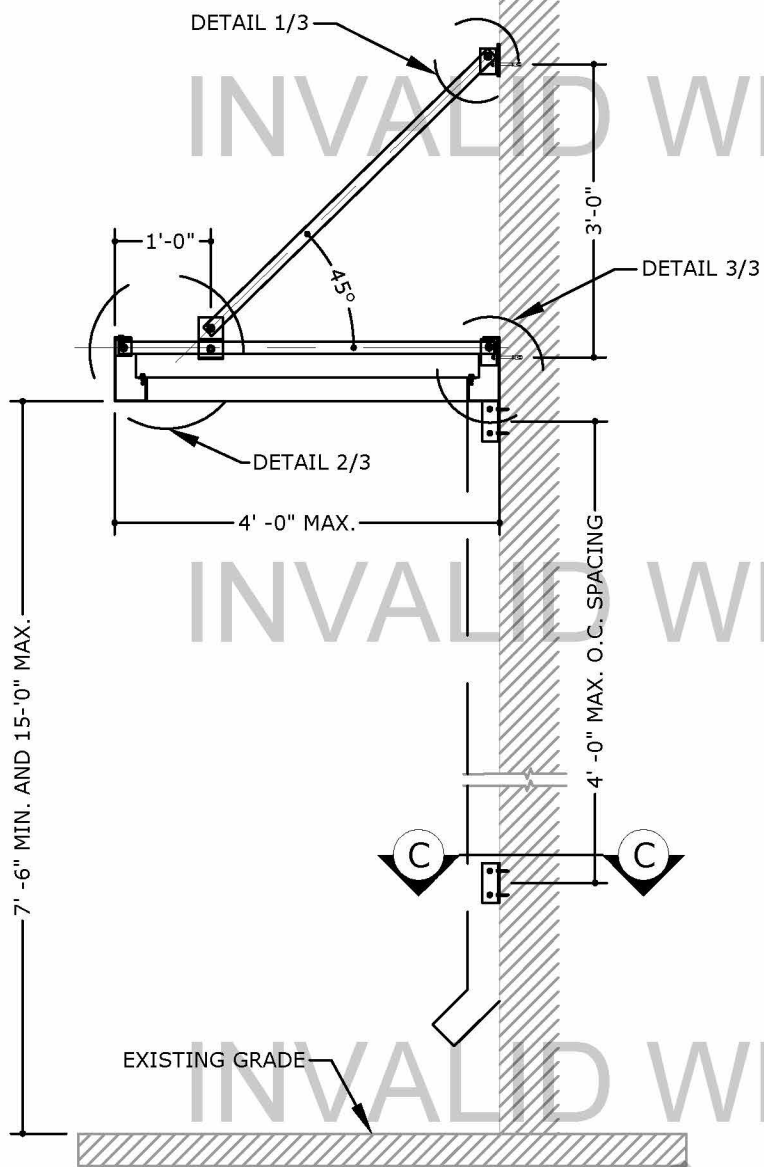
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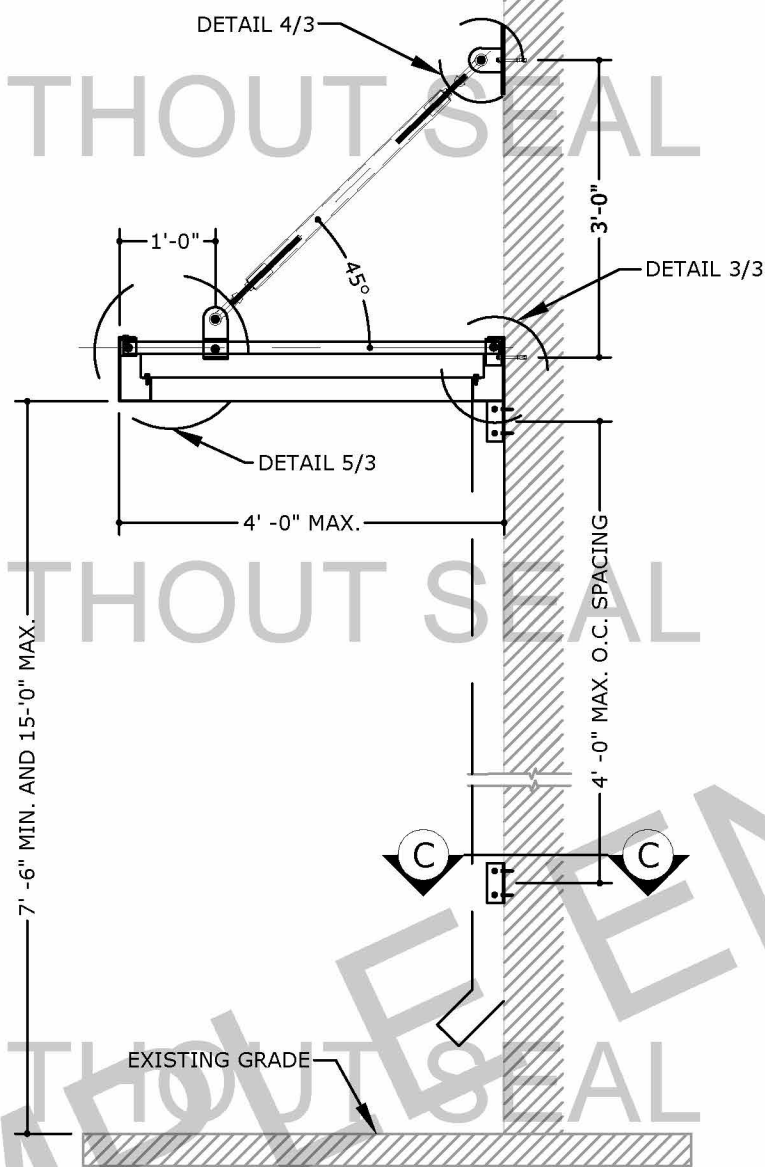
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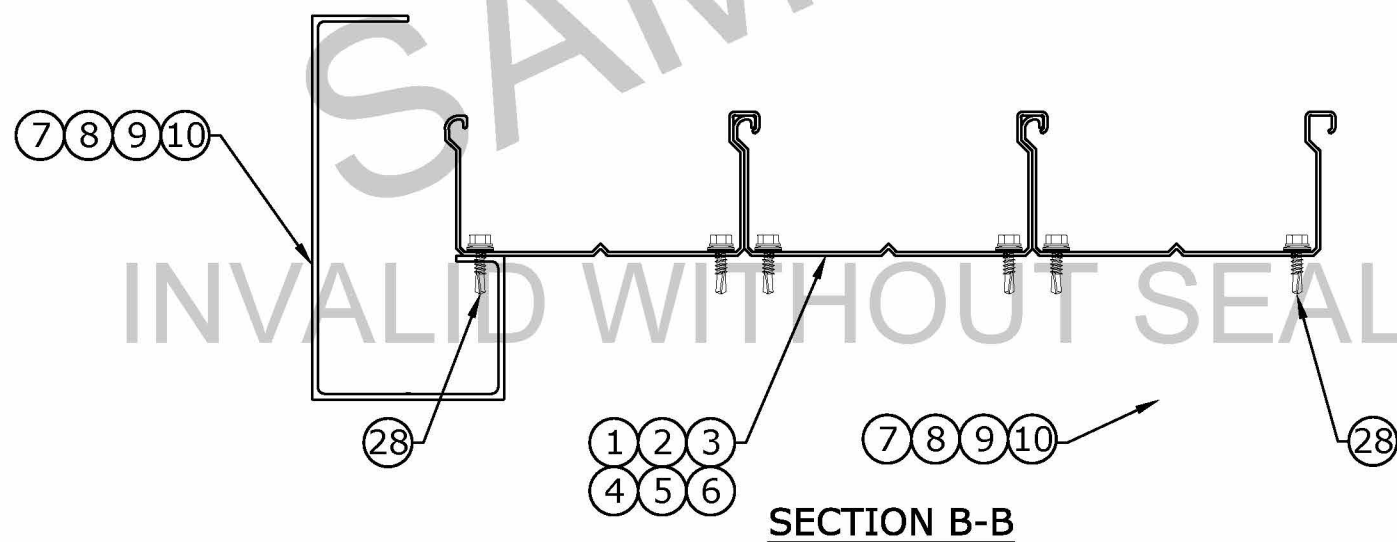
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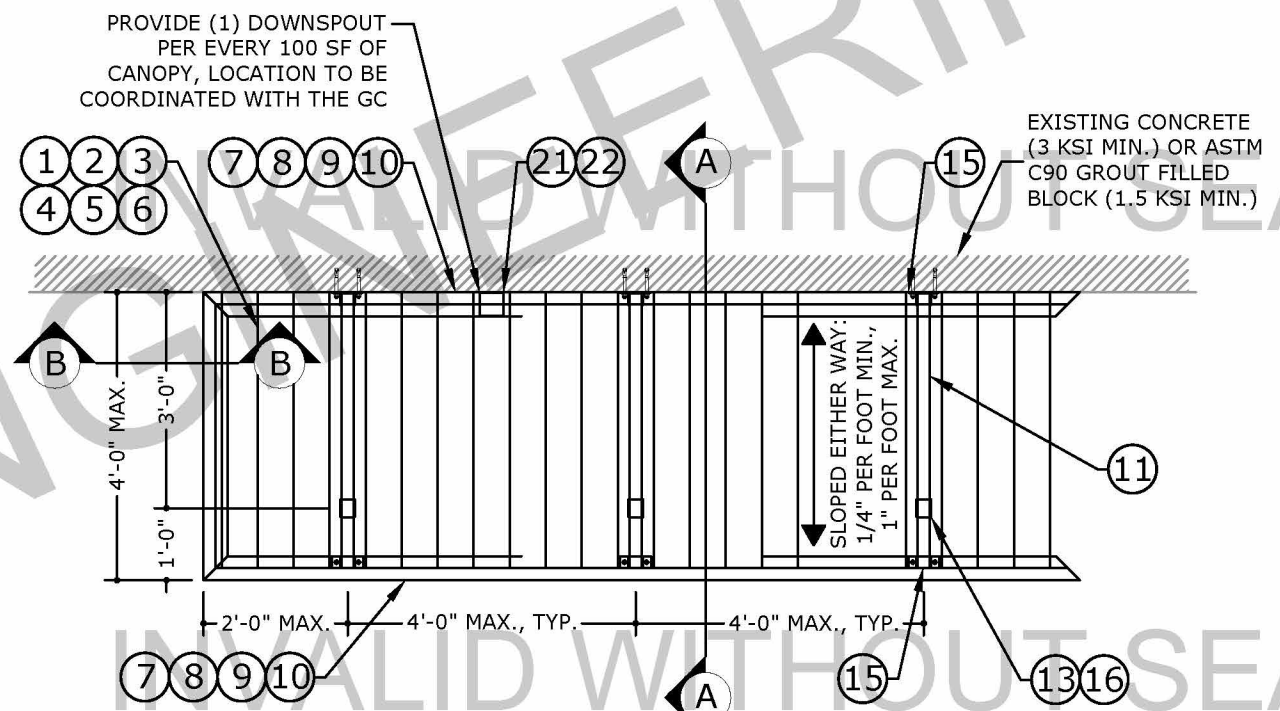
SECTION A-A W/ SQUARE TUBE ARM



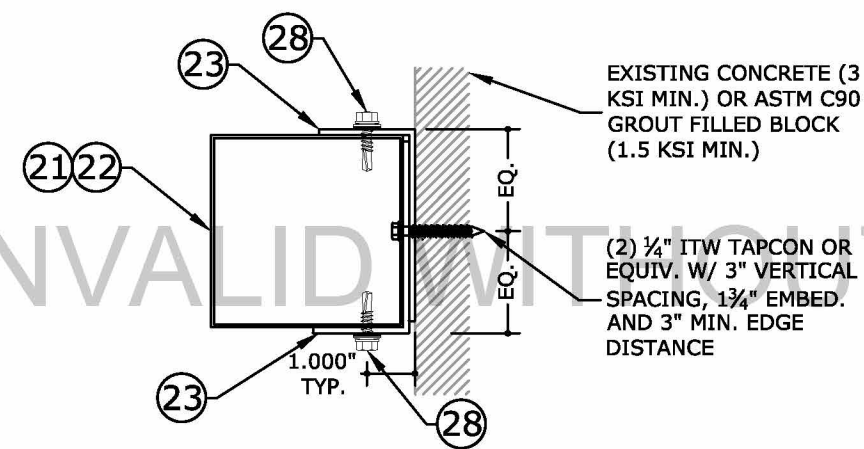
SECTION A-A W/ ROUND TUBE ARM



SECTION B-B

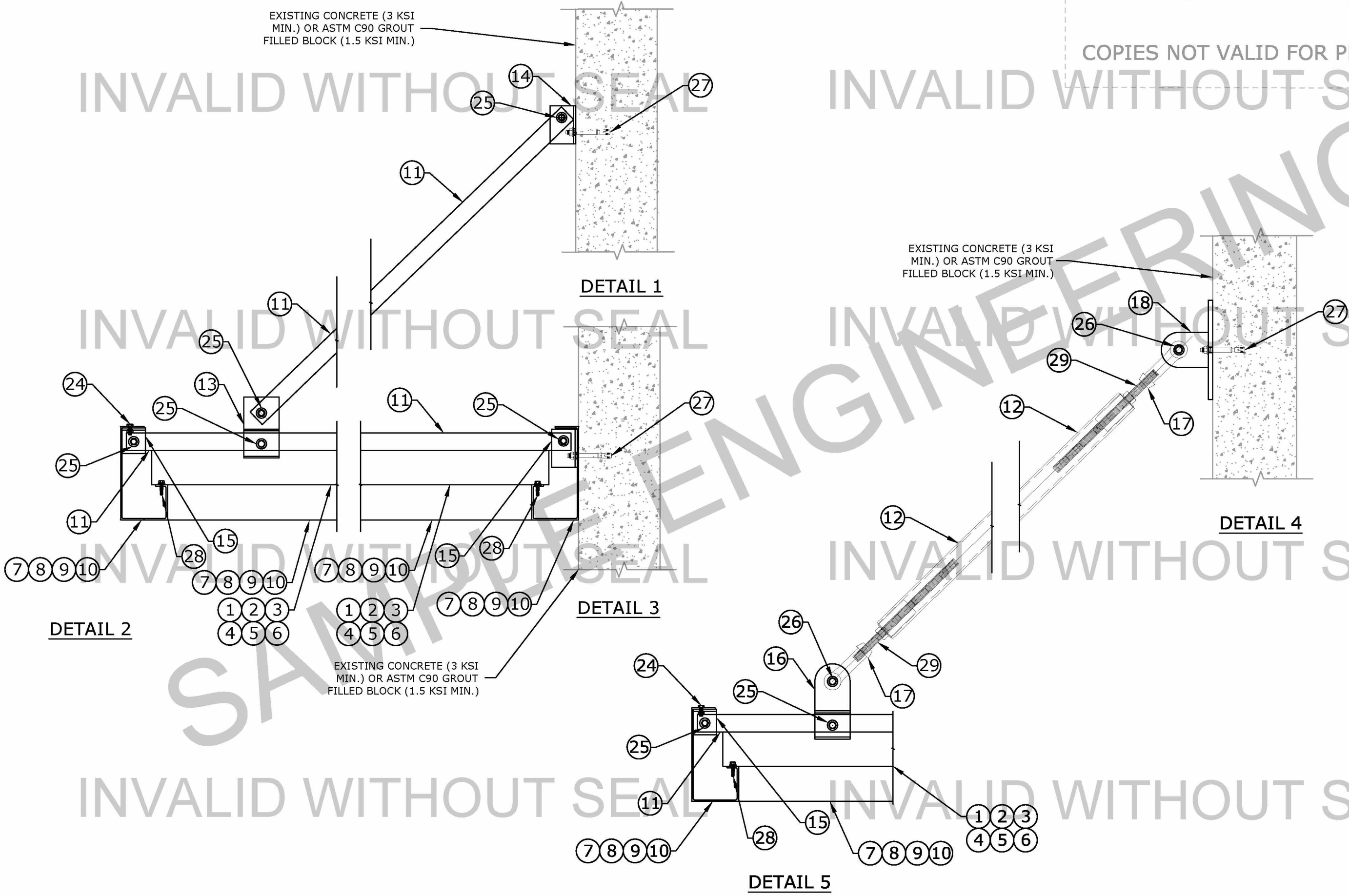


TYPICAL ROOF PLAN



SECTION C-C

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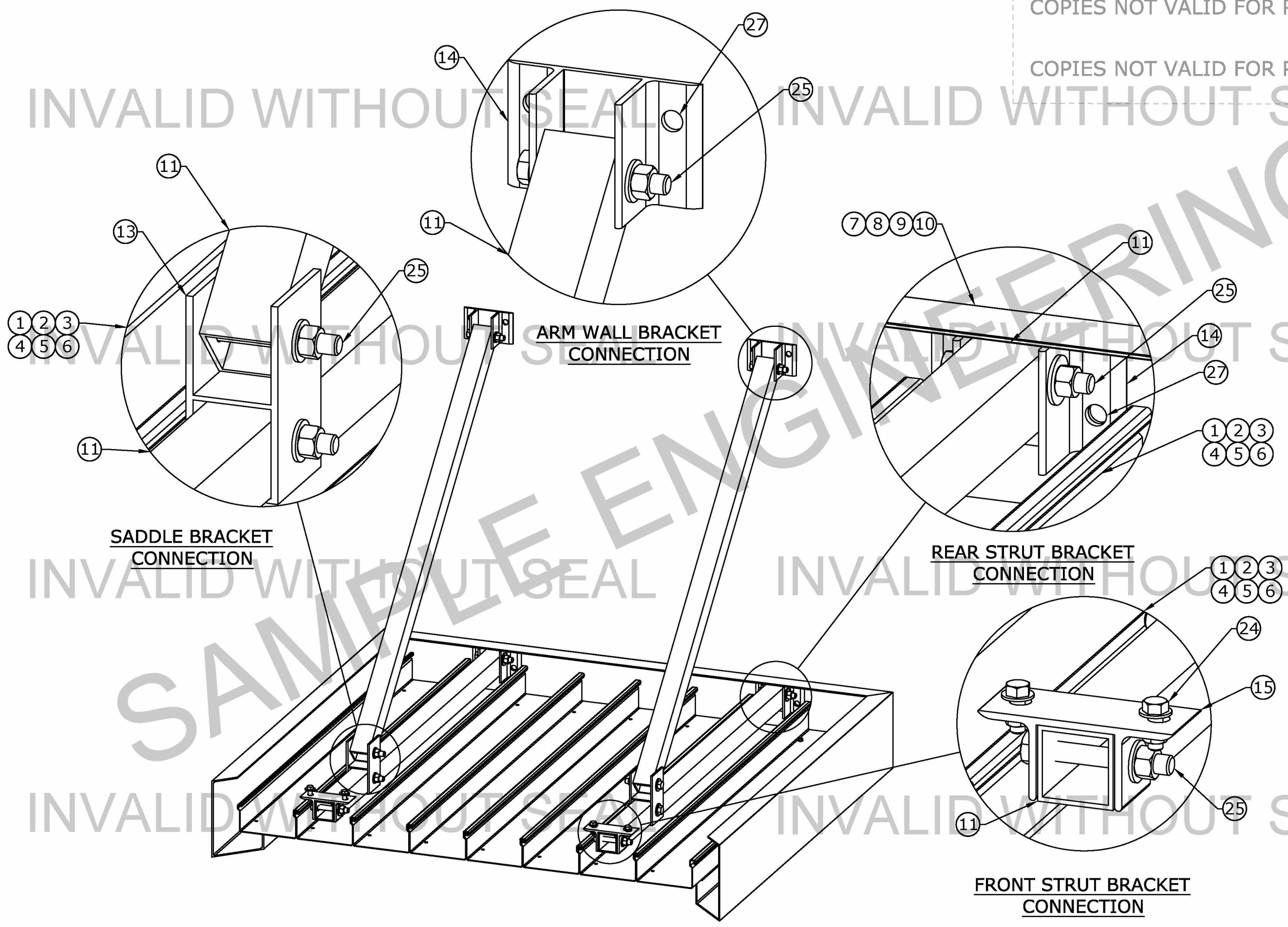
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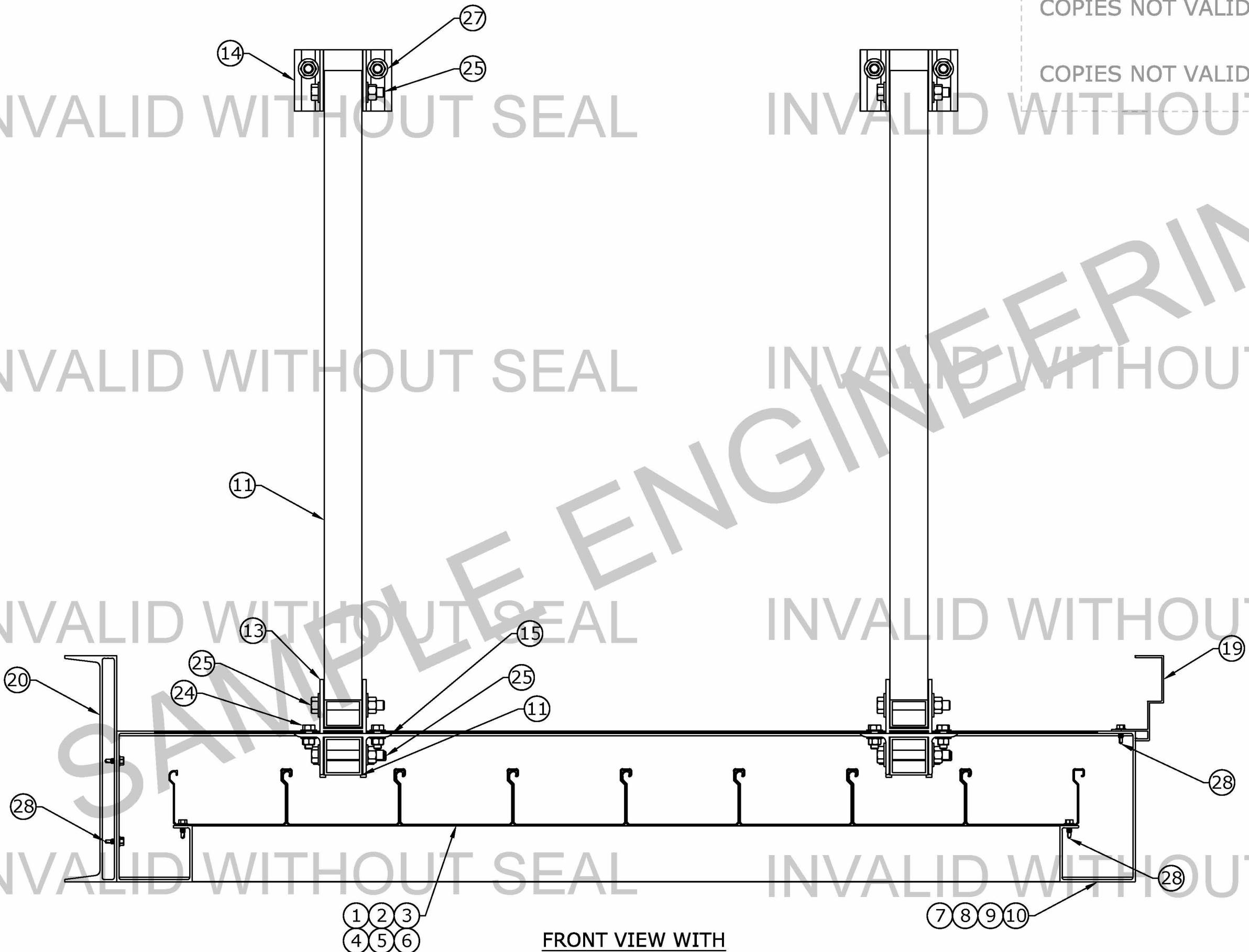
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FBC 7TH EDITION (2020) & IBC (2018)

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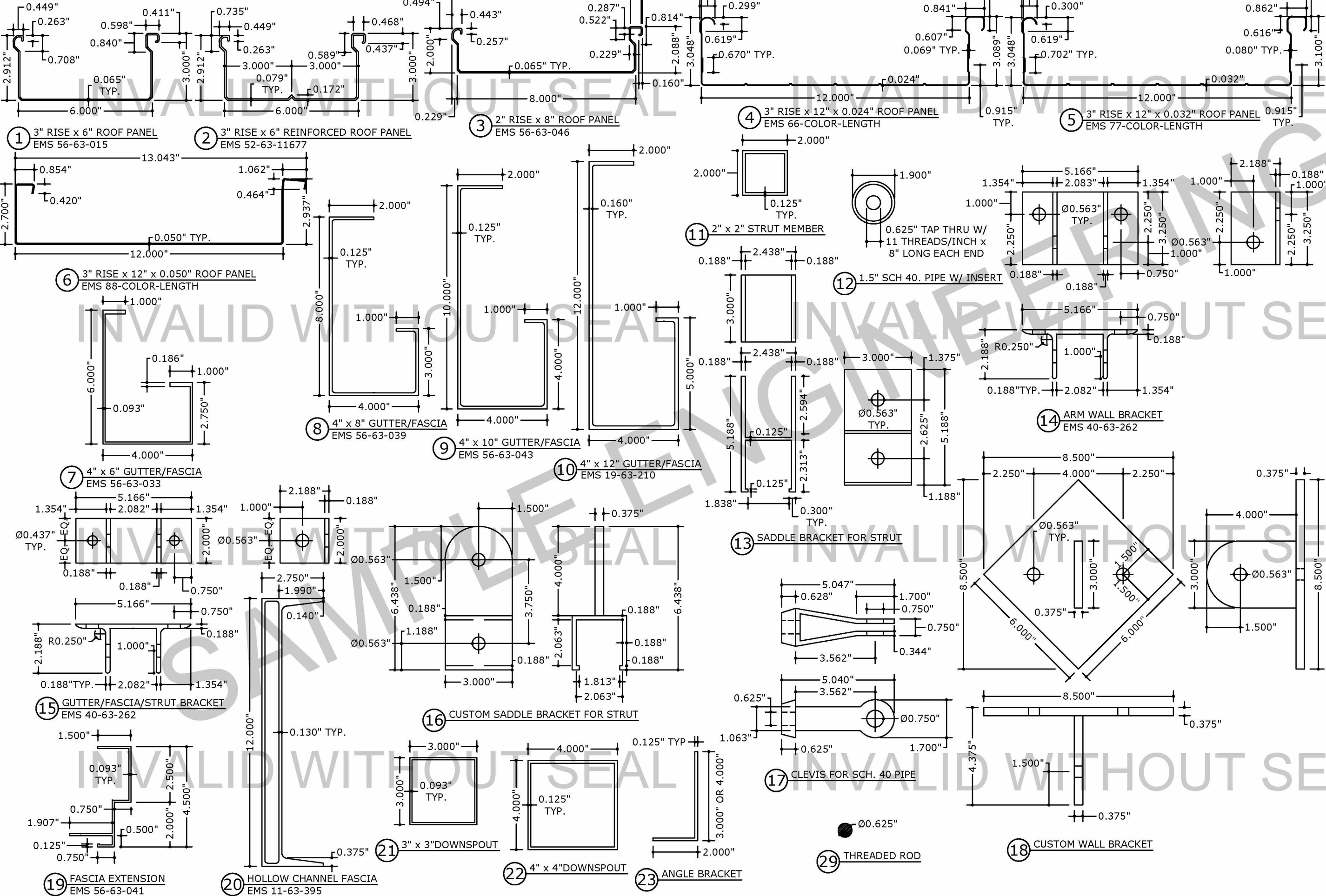
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CANOPY WITH OVERHEAD SUPPORT EXTRUSIONS

EXTRUSION TOLERANCES TO BE PER INDUSTRY STANDARDS



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BILL OF MATERIALS			
COMPONENT #	DESCRIPTION	MATERIAL	REMARKS
(1)	3" RISE x 6" ROOF PANEL	6063-T6 ALLOY	ATTACHED TO GUTTER/BEAM W/ (2) (28) EA. PANEL
(2)	3" RISE x 6" REINFORCED ROOF PANEL	6063-T6 ALLOY	ATTACHED TO GUTTER/BEAM W/ (2) (28) EA. PANEL
(3)	2" RISE x 8" ROOF PANEL	6063-T6 ALLOY	ATTACHED TO GUTTER/BEAM W/ (2) (28) EA. PANEL
(4)	3" RISE x 12" x 0.024" ROOF PANEL	3003-H14 ALLOY	ATTACHED TO GUTTER/BEAM W/ (3) (28) EA. PANEL
(5)	3" RISE x 12" x 0.032" ROOF PANEL	3003-H14 ALLOY	ATTACHED TO GUTTER/BEAM W/ (3) (28) EA. PANEL
(6)	3" RISE x 12" x 0.050" ROOF PANEL	3105-H25 ALLOY	ATTACHED TO GUTTER/BEAM W/ (3) (28) EA. PANEL
(7)	4"x6" GUTTER/FASCIA	6063-T6 ALLOY	MITERED AND BUTT WELDED @ CORNERS
(8)	4"x8" GUTTER/FASCIA	6063-T6 ALLOY	MITERED AND BUTT WELDED @ CORNERS
(9)	4"x10" GUTTER/FASCIA	6063-T6 ALLOY	MITERED AND BUTT WELDED @ CORNERS
(10)	4"x12" GUTTER/FASCIA	6063-T6 ALLOY	MITERED AND BUTT WELDED @ CORNERS
(11)	2"x2"x1/8" STRUT MEMBER	6063-T6 ALLOY	HANGER ARM AND HORIZONTAL STRUT
(12)	1-1/2" SCH. 40 PIPE W/ INSERT	6061-T6 ALLOY	ALTERNATIVE HANGER ARM TO (11)
(13)	SADDLE BRACKET FOR STRUT W/ (11)	6063-T6 ALLOY	BOLTED TO (11) W/ (1) (25)
(14)	ARM WALL BRACKET FOR (11)	6063-T6 ALLOY	ANCHORED TO WALL W/ (2) (27) & BOLTED W/ (1) (25)
(15)	GUTTER/FASCIA/STRUT FRONT BRACKET & GUTTER/FASICA/STRUT WALL BRACKET	6063-T6 ALLOY	BOLTED TO (11) W/ (25) BOLTED TO GUTTER/FASCIA W/ (2) (24)
(16)	CUSTOM SADDLE BRACKET FOR STRUT	6061-T6 ALLOY	USED W/ (12). BOLTED TO (17) W/ (1) (26). BOLTED TO (11) W/ (1) (25)
(17)	CLEVIS FOR (12), (29)	ASTM A473 SS	USED W/ (29). BOLTED TO (16) & (18) W/ (1) (25)
(18)	CUSTOM WALL BRACKET FOR (12)	6061-T6 ALLOY	ANCHORED TO WALL W/ (2) (27). BOLTED TO (18) W/ (1) (26)
(19)	FASCIA EXTENSION	6063-T5 ALLOY	CONNECTED TO GUTTER/FASCIA W/ (1) (28) @ 24" O.C. MAX.
(20)	HOLLOW CHANNEL FASCIA	6063-T6 ALLOY	CONNECTED TO GUTTER/FASCIA W/ (2) (28) @ 24" O.C. MAX.
(21)	3" x 3" DOWNSPOUT DRAIN	6063-T5 ALLOY	ONLY FOR REAR DRAINAGE. SEE ROOF PLAN AND SECTION C-C
(22)	4" x 4" DOWNSPOUT DRAIN	6063-T5 ALLOY	ONLY FOR REAR DRAINAGE. SEE ROOF PLAN AND SECTION C-C
(23)	2"x3"x1/8"x4" FOR (21) OR 2"x4"x1/8"x4" FOR (22)	6063-T5 ALLOY	USED TO ATTACH (21) & (22) TO WALL. SEE SECTION C-C
(24)	3/8"-16x1" SS THRU BOLT W/ NUT & WASHER	AISI 304 SERIES	USED AT GUTTER/FASCIA. CONNECTED TO (11) THRU (15)
(25)	1/2"-13x3-1/2" SS THRU BOLT W/ NUT & WASHER	AISI 304 SERIES	USED AT (13), (14) W/ (11)
(26)	1/2"x2" SS THRU BOLT W/ NUT & WASHER	AISI 304 SERIES	USED AT (16) & (18)
(27)	1/2" HILTI KWIK BOLT 3	AISI 304/316 SERIES	W/ 3-1/2" EMBED. & 8" MIN. EDGE DISTANCE INTO f'c=3 KSI MIN. CONC. OR f'c=1.5 KSI MIN. GROUTED ASTM C90 CMU (1 PER CELL)
(28)	1/4"x3/4" SS TEK SCREW W/ NEOPRENE WASHER	AISI 410 SERIES	MANUFACTURER: ITW BUILDEX
(29)	5/8"-11 ALL THREADED ROD FOR (12)	AISI 304 SERIES	MIN. ENGAGEMENT INTO (12) IS 8". COATED W/ DRACOSHIELD COATING AND W/ NUT AT END OF (12)