



# ALUMINUM WALKWAY COVER MASTER PLAN SHEET

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DESIGN NOTES:

MAXIMUM DESIGN PRESSURES:

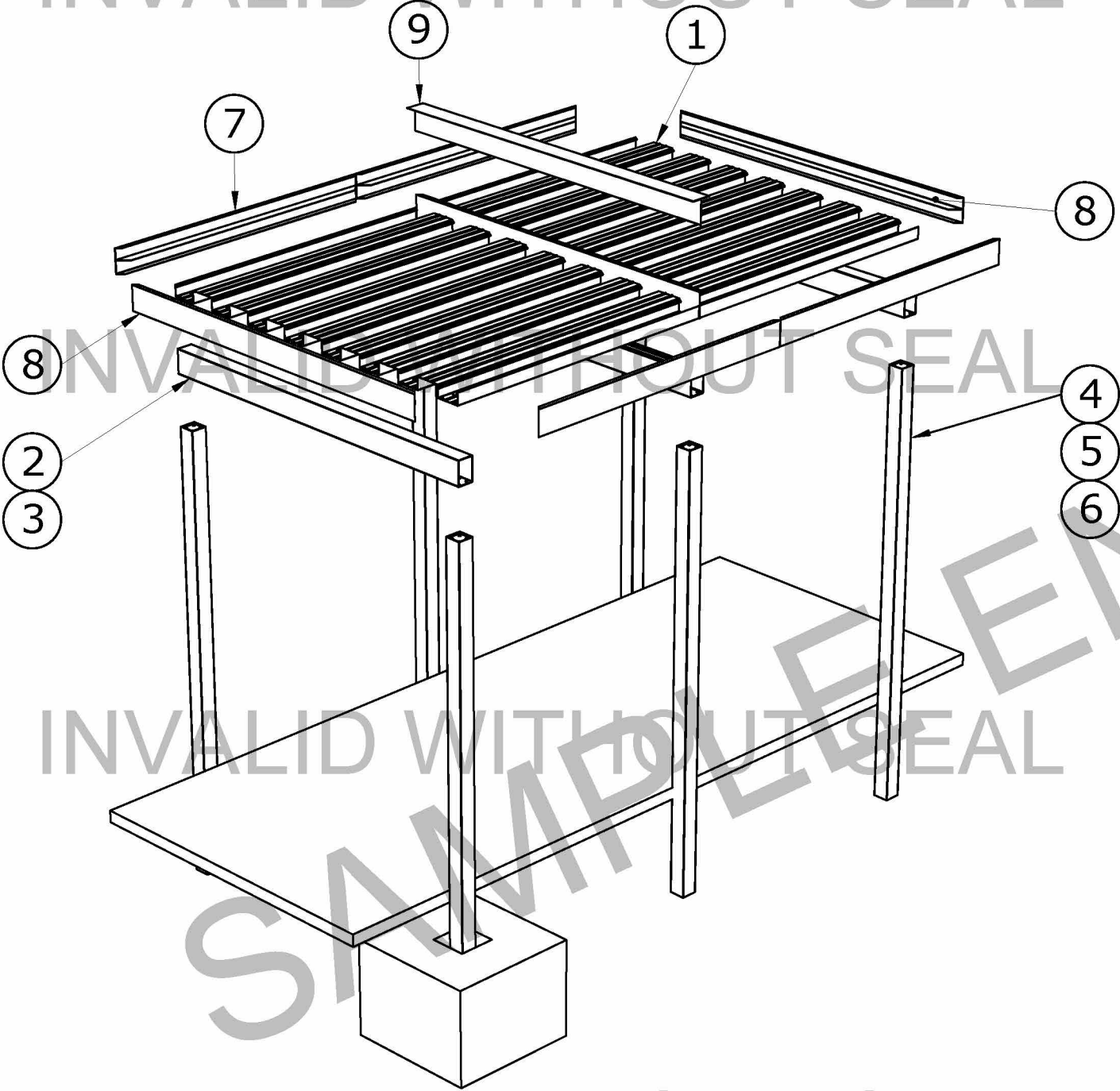
"LOW WIND": **+43 / -25 PSF** ASD GRAVITY LOAD COMBINATION  
"HIGH WIND": **+47 / -30 PSF** ASD GRAVITY LOAD COMBINATION

\*GRAVITY LOAD COMBINATION TO CONSIDER ALL CODE-REQUIRED  
LOADING CONDITIONS INCLUDING BUT NOT LIMITED TO  
5 PSF DEAD LOAD, 20 PSF LIVE LOAD, AND SITE-SPECIFIC WIND & SNOW LOADS

- 1. DESIGN CONDITIONS ARE NOT TO EXCEED THE FOLLOWING DESIGN CRITERIA:  
MAX WIND SPEED: "LOW WIND": 165 MPH ; "HIGH WIND": 180 MPH  
EXTREME EXPOSURE CATEGORY: LOW & HIGH WIND: EXP C
- 2. THIS MASTER PLAN IS VALID FOR SITE CONDITIONS WITHIN THE ABOVE LIMITATIONS  
(DESIGN ASSUMPTIONS INCLUDE LOADING CONDITIONS AS LISTED, BUT ENGINEERING  
REMAINS VALID FOR ALTERNATE LOAD COMBINATIONS THAT REMAIN WITHIN NOTED LIMITS)
- 3. \*SITE SPECIFIC PRESSURES TO BE CALCULATED SEPARATELY PER CODES  
AND STANDARDS STATED HEREIN. DESIGN CRITERIA OR SPANS BEYOND WHAT IS STATED  
HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING

GENERAL NOTES:

- 1. 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.
- 2. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE REQUIREMENTS WHICH MAY APPLY. DESIGN CRITERIA OR SPANS BEYOND STATE HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
- 3. WIND LOADS CONSIDERED TO ACT SIMULTANEOUSLY WITH ROOF LIVE LOAD OF 20 PSF. 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.
- 4. PRODUCT APPROVED FOR USE IN SEISMIC DESIGN CATEGORY A-B PER REQUIREMENTS OF ASCE 7-16 AND CALIFORNIA BUILDING CODE 2019. FOR SEISMIC DESIGN CATEGORY C-F AND ANY CONCRETE CONNECTIONS, ADDITIONAL REVIEW BY THIRD-PARTY ENGINEERS IS REQUIRED FOR THE VALIDITY OF THE DESIGN.
- 5. 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.
- 6. ANY EXISTING STRUCTURES MUST BE CAPABLE OF SUPPORTING THE LOADED CANOPY STRUCTURE AS DETERMINED BY OTHERS OR BY SPECIAL ENGINEERING BY UNDERSIGNED ENGINEER ATTACHED HERETO. NO WARRANTY IS CONTAINED HEREIN.
- 7. SYSTEM COMPONENTS SHALL BE AS NOTED HEREIN. ALL REFERENCES TO EXTRUSIONS AND INSTALLATION SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS AS SUMMARIZED HEREIN.
- 8. NO CERTIFICATION IS OFFERED FOR WATERPROOFING, SIZING, OR OPERATION OF GUTTERS.
- 9. ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
- 10. 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.
- 11. FOR ALUMINUM MEMBERS ALL ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE.
- 12. 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.
- 13. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 14. 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.
- 15. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- 16. MINIMUM REBAR COVER FOR CONCRETE FOOTINGS IS 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH AND 2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. SOIL TO BE WELL COMPACTED TO 95% OPTIMUM DENSITY.
- 17. 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.
- 18. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.



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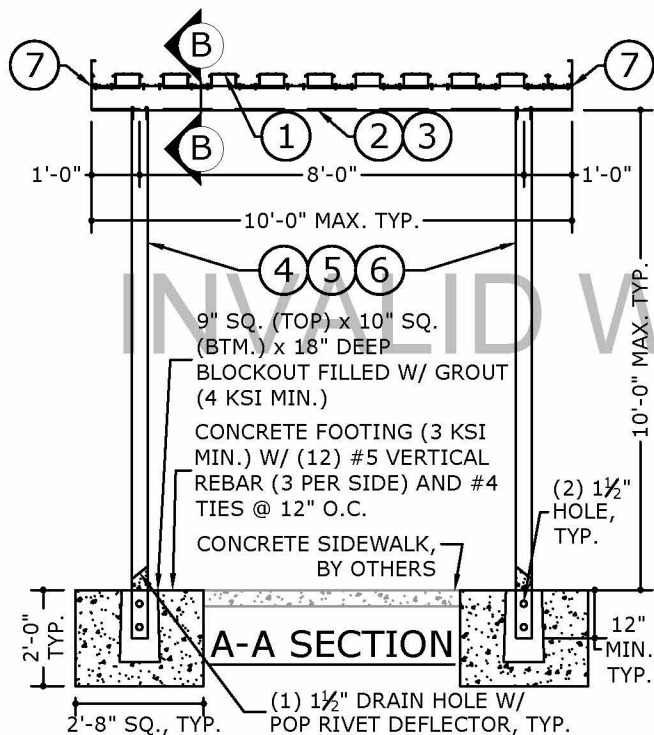
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ALUMINUM WALKWAY COVER  
MASTER PLAN  
FBC 7TH ED (2020) & IBC (2018)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	ZAR	FLB	1/15/18
2020 FBC	COB	FLB	5/17/21

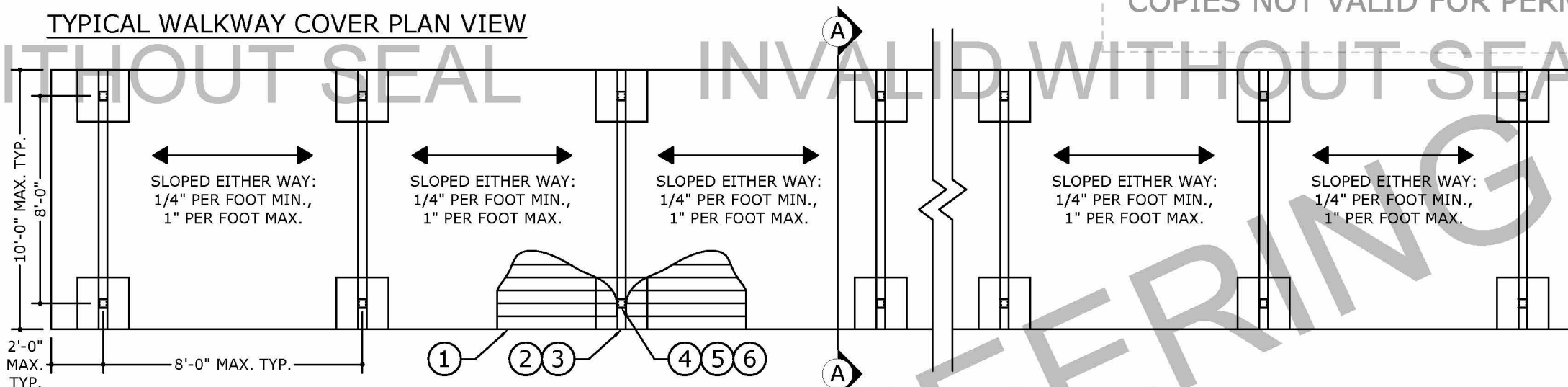
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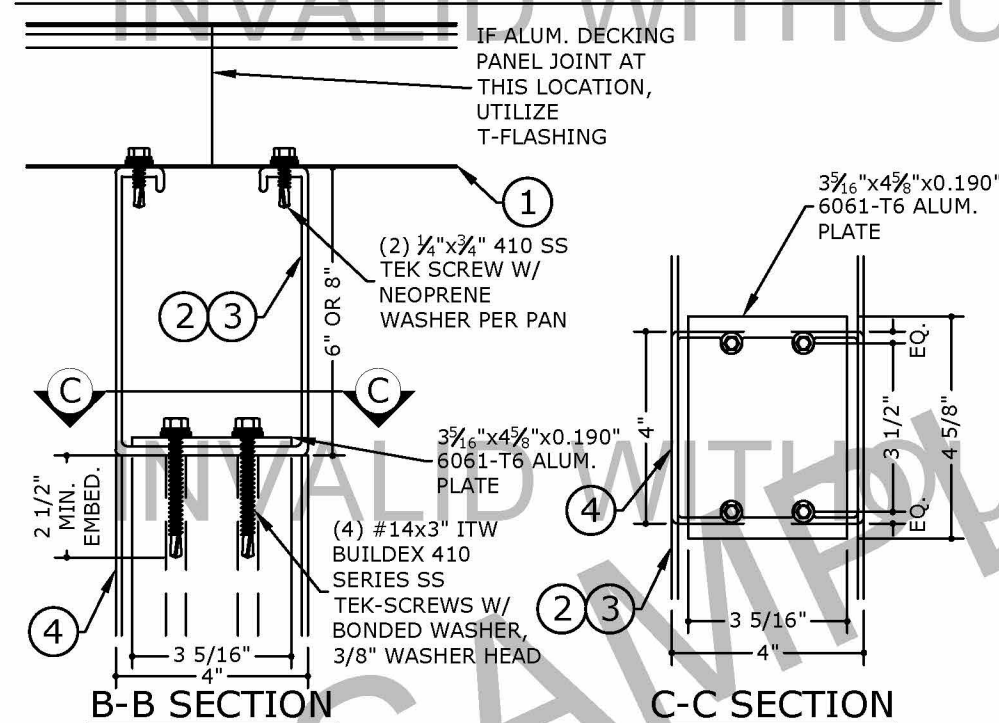
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TYPICAL WALKWAY COVER PLAN VIEW

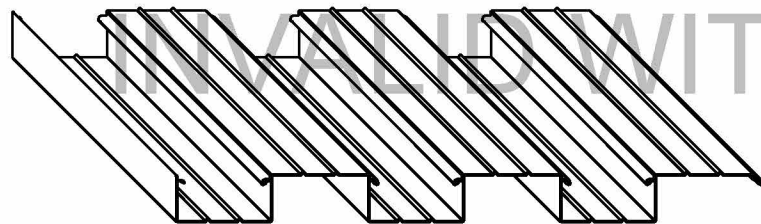


"LOW WIND" BEAM TO POST CONNECTION TYPE 1



WALKWAY COVER EXTRUSIONS

6063-T6 ALLOY/TEMPER  
EXTRUSION TOLERANCES TO BE PER INDUSTRY STANDARDS



1 3"x6"x0.060" CAP/PAN DECKING  
EMS 56-63-008 (CAP) / EMS 56-63-001 (PAN)

2 4"x6" GUTTER BEAM  
EMS 53-63-011

3 4"x8" GUTTER BEAM  
EMS 53-63-013

4 4"x4"x0.125" POST  
EMS 52-63-050

5 4"x4"x0.150" POST  
EMS 52-63-053

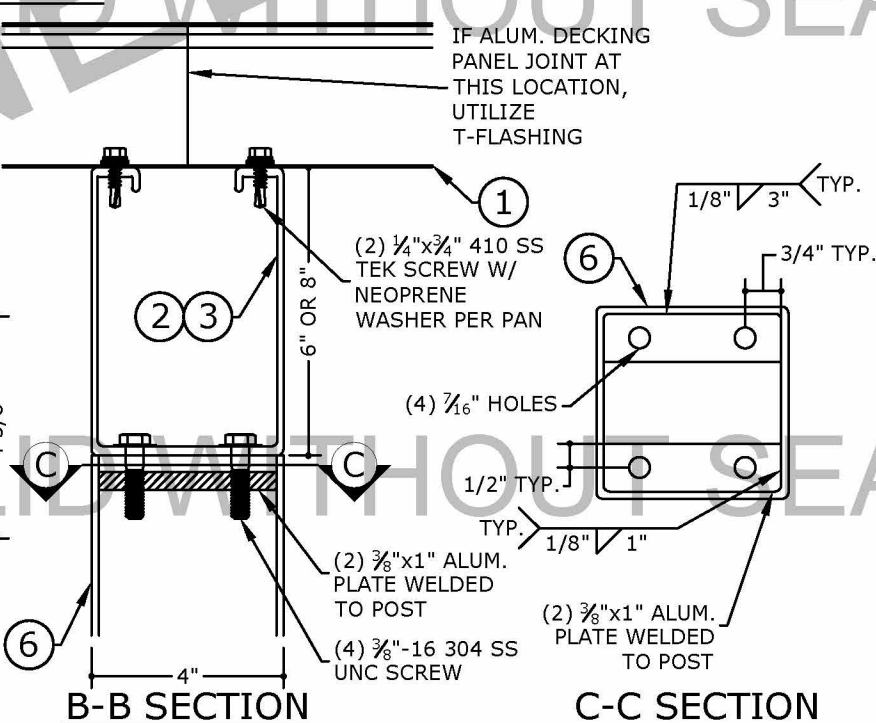
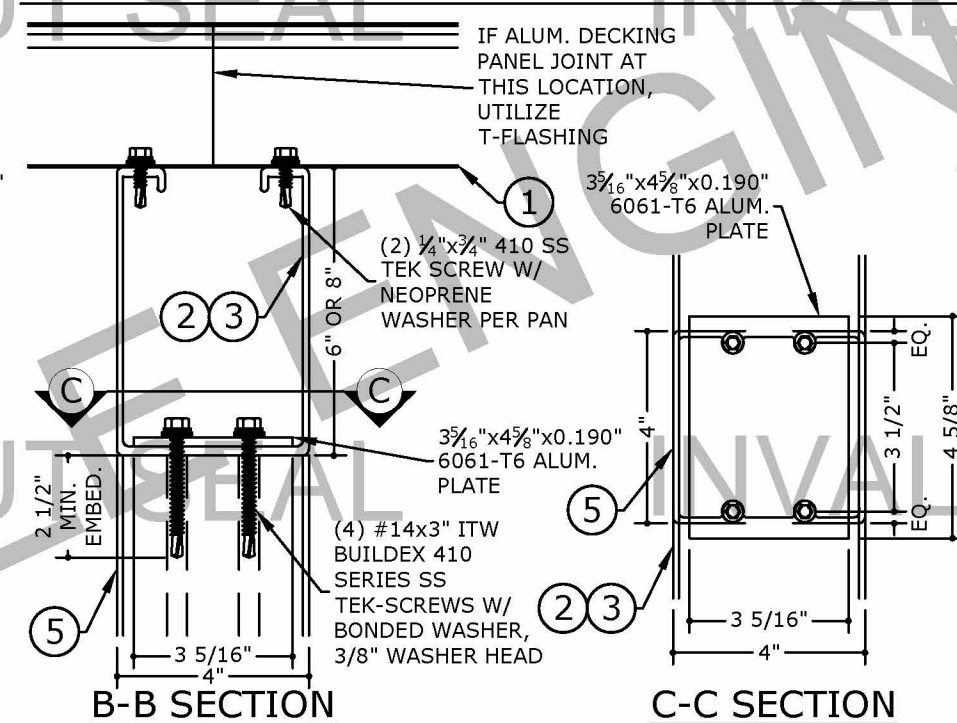
6 4"x4"x0.150" POST  
EMS 53-63-010

7 SIDE FASCIA  
EMS 53-63-007

8 END FASCIA  
EMS 53-63-005

9 T-FLASHING  
EMS 53-63-040

"HIGH WIND" BEAM TO POST CONNECTION TYPES 2 & 3



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