



SCREEN WALL NON-LOADBEARING INFILL MASTER PLAN

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PE SEAL
REQUIRED
03/12/2021
CERTIFYING ENGINEER AND CERT
OF AUTH AS LISTED ON STAMP
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NON-LOADBEARING SCREEN WALL LAYOUT

(HEAD, SILL & JAMB CONN) 1 X 3
OPEN TO STRUCTURE WITH ¼" X 1
¾" EMBED ITW/DEWALT TAPCONS
OR #14 X 1½" EMBED WOOD
SCREWS 4" FROM ENDS, 24" MAX
O.C., ADD FASTENERS 4" EACH SIDE
OF CHAIR RAIL/EAVE BEAM

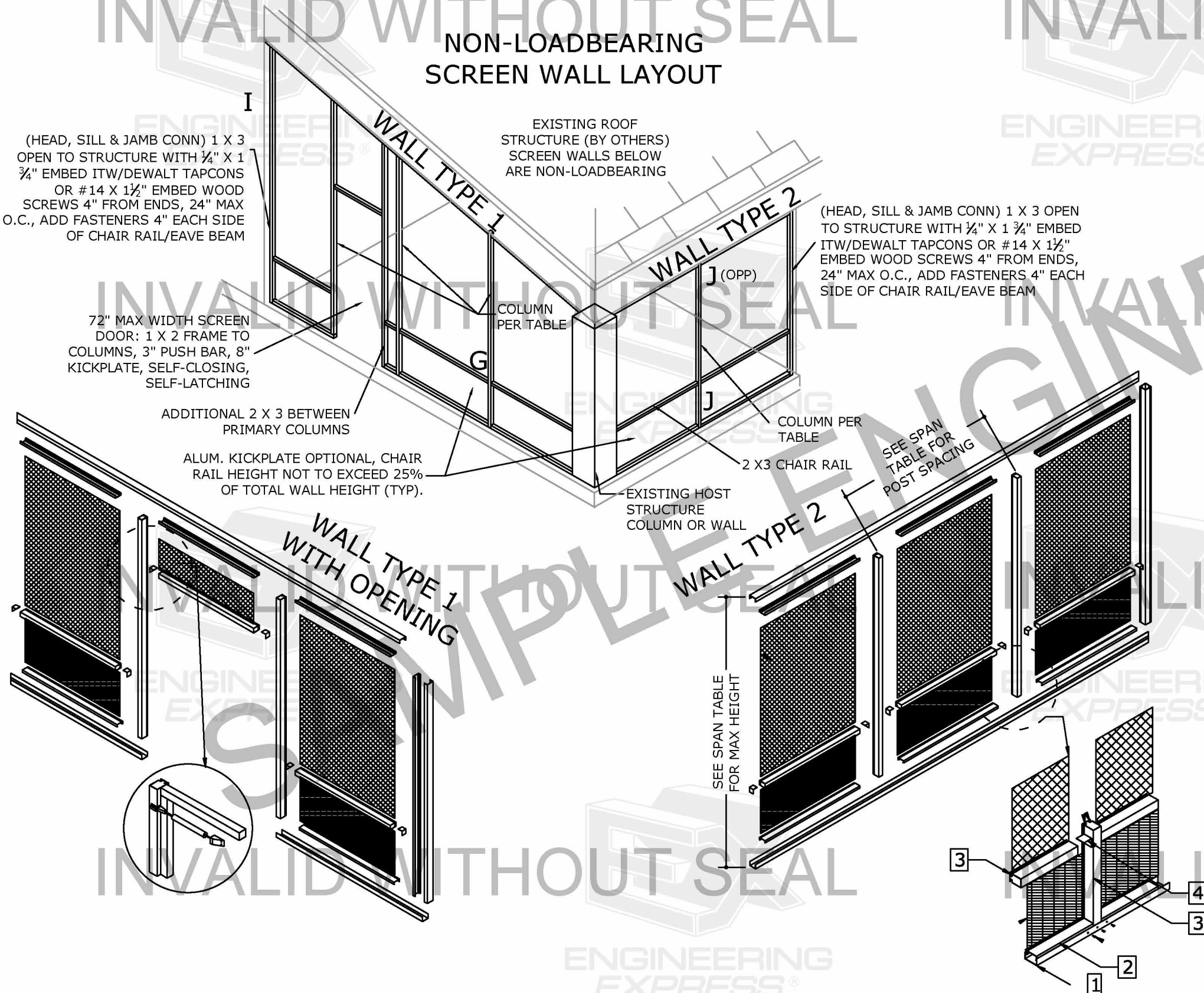
EXISTING ROOF
STRUCTURE (BY OTHERS)
SCREEN WALLS BELOW
ARE NON-LOADBEARING

(HEAD, SILL & JAMB CONN) 1 X 3 OPEN
TO STRUCTURE WITH ¼" X 1 ¾" EMBED
ITW/DEWALT TAPCONS OR #14 X 1½"
EMBED WOOD SCREWS 4" FROM ENDS,
24" MAX O.C., ADD FASTENERS 4" EACH
SIDE OF CHAIR RAIL/EAVE BEAM

72" MAX WIDTH SCREEN
DOOR: 1 X 2 FRAME TO
COLUMNS, 3" PUSH BAR, 8"
KICKPLATE, SELF-CLOSING,
SELF-LATCHING

ADDITIONAL 2 X 3 BETWEEN
PRIMARY COLUMNS

ALUM. KICKPLATE OPTIONAL, CHAIR
RAIL HEIGHT NOT TO EXCEED 25%
OF TOTAL WALL HEIGHT (TYP).



DESIGN NOTES:

1. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH ASCE 7-16 & CHAPTER 16 OF THE 2020 FLORIDA BUILDING CODE (7TH EDITION), 2017 FLORIDA BUILDING CODE (6TH EDITION) & THE 2012/2015/2018 IBC/IRC, 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 LISTED THEN MOST STRINGENT APPLIES.
 2. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 BASED ON APPLICABLE CODE..
 3. *THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. SCREEN WALLS APPLY ONLY.
 4. THE EXISTING STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED SUNROOM AS DETERMINED BY OTHERS. NO WARRANTY IS CONTAINED HEREIN. ALL EXTRUSIONS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 OR BETTER.
- MATERIALS**
5. ALL FASTENERS TO BE ASTM F593, CW 316 STAINLESS STEEL, SAE GRADE 2 STEEL MIN, OR CADMIUM PLATED OR OTHER CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH THE 2015 ALUMINUM DESIGN MANUAL, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
 6. FASTENERS SHALL HAVE A HEAD AND/OR BE PROVIDED WITH ½" DIAMETER WASHER MINIMUM UNLESS NOTED OTHERWISE. FOR ALUMINUM MEMBERS ALL ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE. PROVIDE (5) PITCHES MIN PAST THE THREAD PLANE FOR ALL SCREW CONNECTIONS.
 7. ANY FASTENER STRIPPED OR NOT ADEQUATELY HOLDING SHALL BE REPLACED.
 8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
 7. ALL CONCRETE ANCHORS MUST BE CARBON STEEL CONCRETE ANCHORS SHALL BE FROM ITW, DEWALT, OR MFR RATED EQ. WITH 1¾" EMBED, 2 ½" MIN. EDGE DISTANCE, FASTENED TO MINIMUM 3KSI MIN., UN-CRACKED CONCRETE.
- OTHER**
8. ALUMINUM MEMBERS IN CONTACT WITH CONCRETE & WOOD SHALL BE POWDER COATED OR PROTECTED BY 'KOPPERS BITUMINOUS PAINT' OR MFR. EQUAL IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
 9. ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
 10. EXISTING WOOD HOST STRUCTURE SHALL BE #2 SYP MIN. EXISTING CONCRETE HOST STRUCTURE SHALL BE 3000 PSI MIN. STRUCTURAL ADHESIVE SHALL HAVE 1500 PSI MIN BOND STRENGTH, CONTINUOUS BEAD, PROVIDED AT SURFACES & JOINTS TO INTERLOCK THE SYSTEM WHERE REQUIRED BY THE MANUFACTURER.
 11. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
 12. ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.
 13. EXCEPT AS EXPRESSLY PROVIDED IN THIS SPECIFICATION, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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NON-LOAD BEARING

SCREEN WALL INFILL

MASTER PLAN

REMARKS	DATE	DRWN	CHKD
INIT ISSUE	1/10/20	TT	FLB
2020 FBC	3/12/21	FLB	COB

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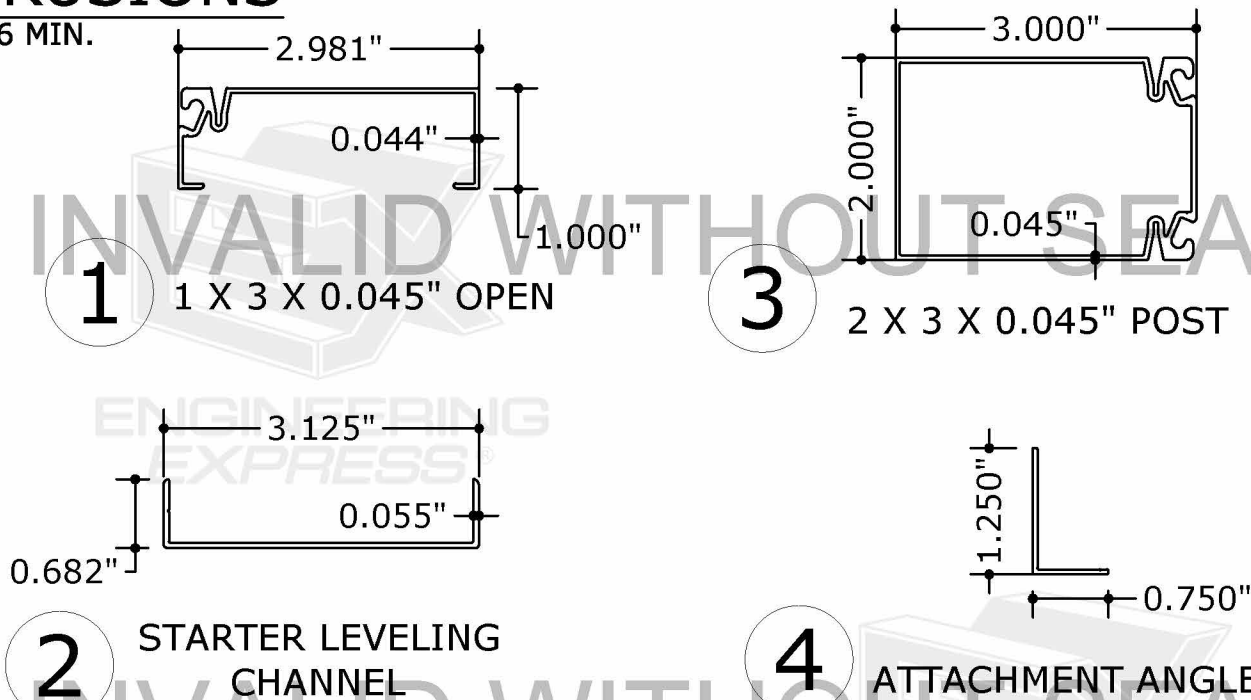
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1

2

EXTRUSIONS

6063-T6 MIN.



COLUMN ALLOWABLE HEIGHT TABLE

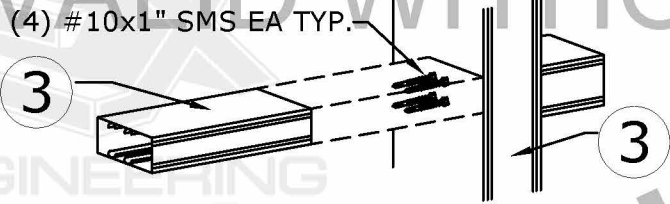
Wind Load (psf)	AVG Column Spacing (ft)	
	<=6	8 MAX
20	10'-0"	10'-0"
30	10'-0"	10'-0"
40 MAX	10'-0"	9'-3"

COLUMN ALLOWABLE HEIGHT NOTES:

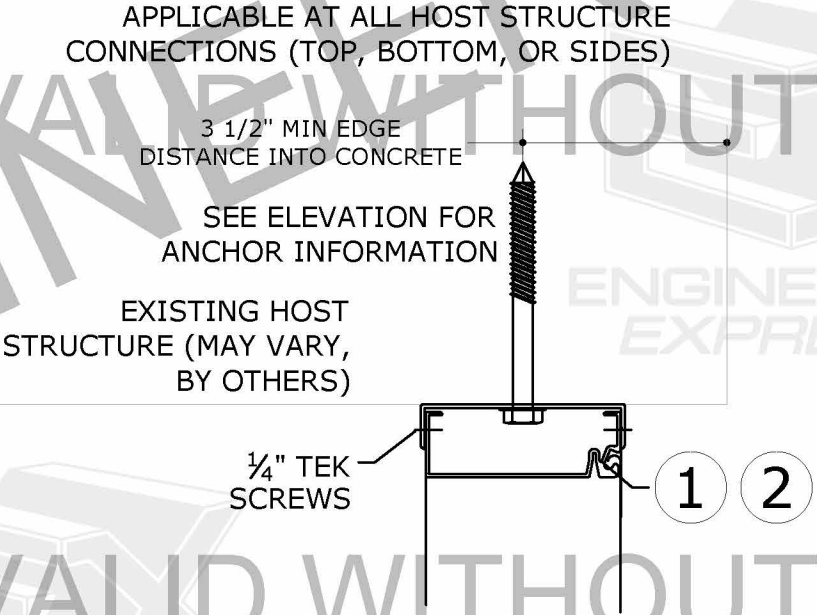
- 1) 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
2) PRESSURES ARE ASD, NO GRAVITY LOAD APPLIED. VALUES ABOVE LISTED MAXIMUMS REQUIRE ADDITIONAL ENGINEERING.
3) DEFLECTION LIMIT = L/60 USED IN TABLES.
4) COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING).
5) VALUES ASSUME SCREENS >55% OPEN USING 20 x 20 x 0.013" MESCH SCREEN. FOR 18 x 14 x 0.013" MESH SCREEN MULTIPLY PRESSURE ALLOWANCE BY 0.88.

ROUGH WINDWARD VELOCITY VALUES (BASED ON FBC TABLE 2002.4, AT GRADE, FLAT TERRAIN ONLY, ASCE 7-16, MWFRS. CONSULT A SITE-SPECIFIC ENGINEER FOR DEVIATIONS OR ADDITIONAL INTERPOLATIONS.)
40PSF = 140MPH EXP C 160MPH EXP B
30PSF = 120MPH EXP C, 140MPH EXP B
20PSF = 100MPH EXP C, 120MPH EXP B

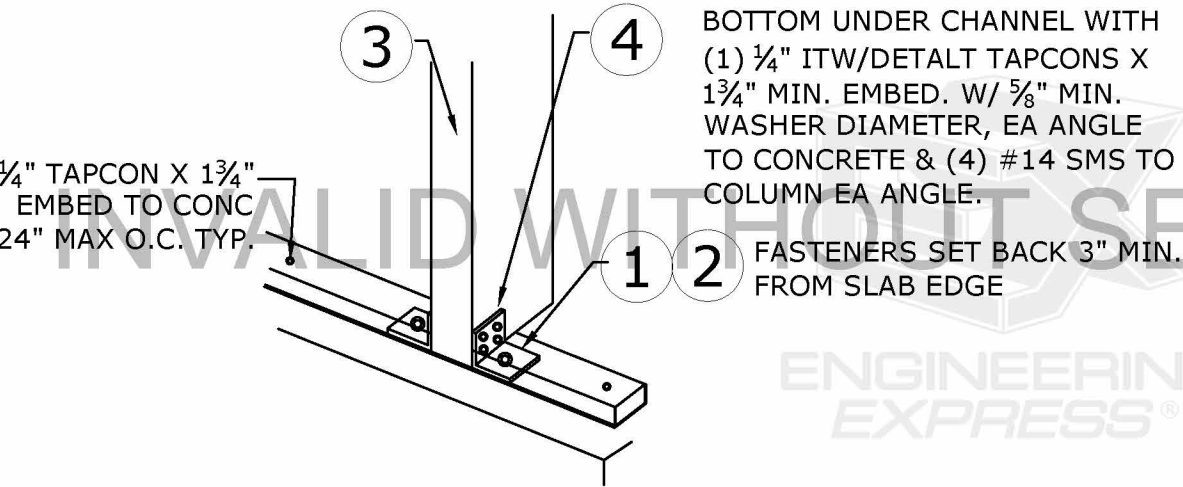
G COLUMN TO CHAIR RAIL



I TO HOST STRUCTURE



J ENCLOSURE TO CONCRETE DECK ANCHORING DETAIL



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