

TOWN & COUNTRY INDUSTRIES

E.A. ESSENTIAL FACILITIES ACCORDION

EXTREME DUTY ACCORDION FOR ESSENTIAL FACILITIES

ASTM 1996 LEVEL "E" 80 FPS LARGE MISSILE RATED

IMPACT / NON-IMPACT - NON-HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

COLBY BENNARDO, P.E.
PE# 95197 CA# 9885

AUGUST 15, 2023

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT ENGINEERINGEXPRESS.COM/QUOTE FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

GENERAL NOTES:

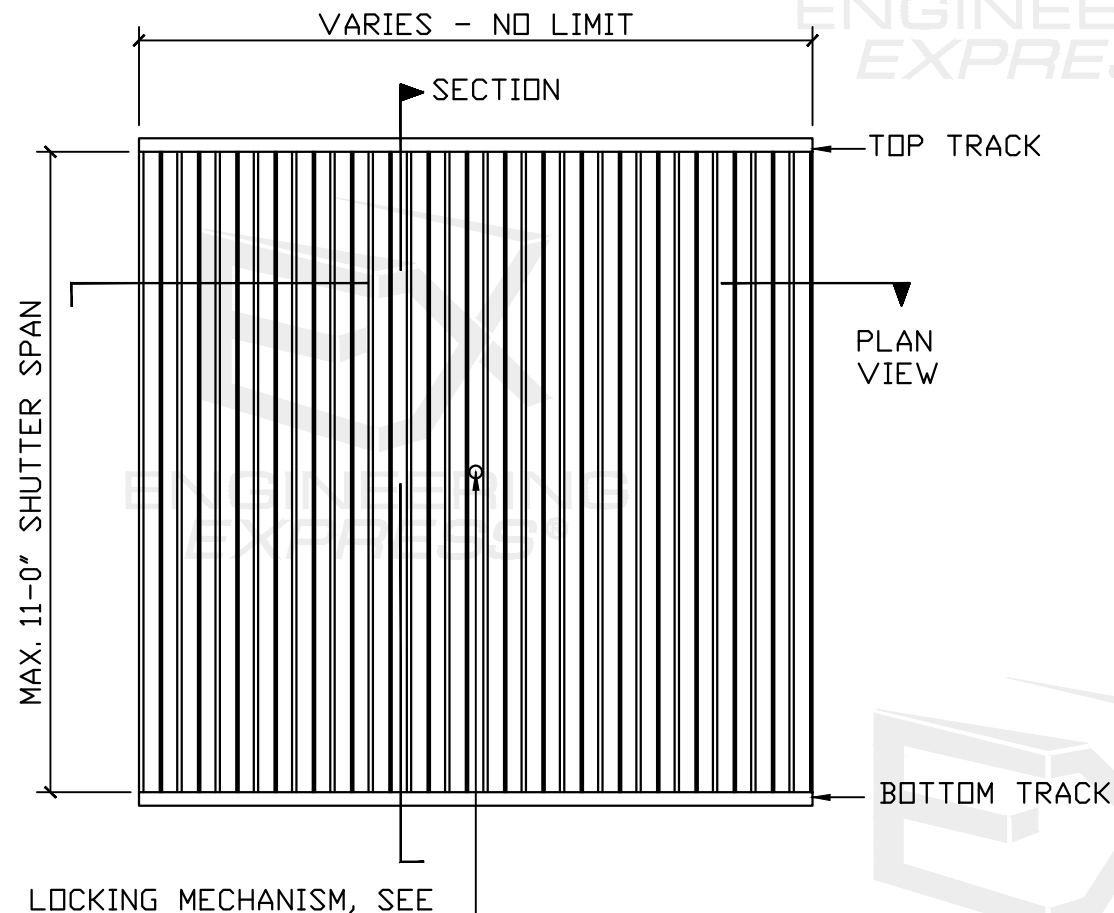
- THIS SYSTEM HAS BEEN TESTED AND EVALUATED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), THE INTERNATIONAL RESIDENTIAL CODE (IRC) AND THE INTERNATIONAL BUILDING CODE (IBC), FOR USE WITH MISSILE LEVEL "E" REQUIREMENTS AND INCLUDES ESSENTIAL FACILITIES AS DEFINED IN ASTM E1996 FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE ONLY (NON-HVHZ). SEE PRODUCT EVALUATION REPORT FOR MORE INFORMATION.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND OR CHAPTER 1609 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATION STATE HEREIN.
- TESTING WAS CONDUCTED IN ACCORDANCE WITH ASTM E1886/E1996/E330.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THESE PRODUCTS. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD ANCHOR DESIGN.
- 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.
- USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION, AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
- ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N., WITH A MINIMUM F_y OF 25 K.S.I.
- ALL BOLTS AND WASHERS (EXCLUDING INSTALLATION) SHALL BE STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS SHALL BE 1/4"Ø OR 3/16"Ø 5052 ALUM. ALLOY. INSTALLATION ANCHORS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALL SHUTTERS SHALL HAVE A LOCKING MECHANISM CONSISTING OF A THUMBSCREW AT CENTER OR SIDE CLOSURE AS DETAILED HEREIN.
- TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
- FLOOR TRACKS MAY BE REMOVABLE AT NON-STACKING LOCATIONS. USE REMOVABLE ANCHORS AS SPECIFIED HEREIN.
- ALL DISSIMILAR MATERIALS SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO EXISTING STRUCTURE
- 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.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION INC. AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- ENGINEER SEAL AFFIXED HERETO VALIDATE 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.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
- UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.

ASTM LEVEL E & ESSENTIAL FACILITIES

MAXIMUM ALLOWABLE DESIGN PRESSURE	MAXIMUM PANEL SPAN
+110 PSF / -128 PSF	11'-0"

DESIGN NOTES:

POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC LOAD WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE BY SEPARATE ENGINEERING. CERTIFICATION AND SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUE LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATIONS STATED HEREIN.



TYPICAL ACCORDION SHUTTER ELEVATION
N.T.S.

FL 13757.3

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EA ESSENTIAL FACILITIES ACCORDION
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL #13757.3)

REMARKS	DRWN	CHKD	DATE
2020 FBC (20-26164) FBC 2023	CCB	RWN	6/17/20
	MLD	CCB	08/15/23

23-61156

SCALE: NTS UNLESS NOTED

1 OF 7

VISIT ECALC.IO/TOWNCOUNTRY
FOR SITE SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE
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FOR ADDITIONAL PLANS, REPORTS & RESOURCES



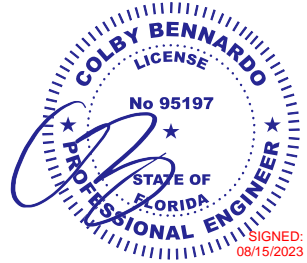
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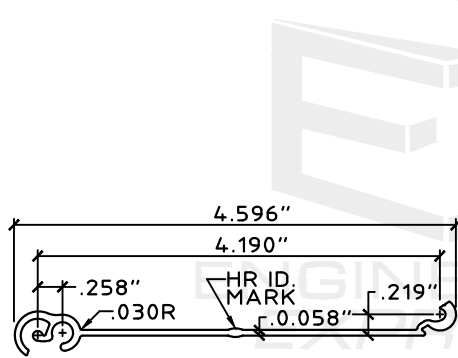
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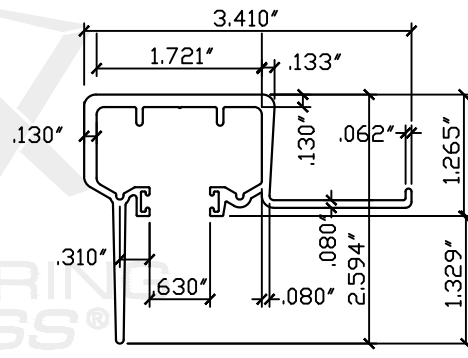
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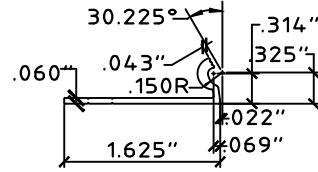
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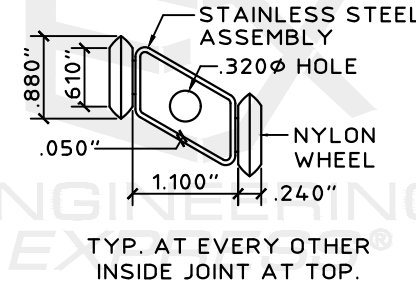
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SCALE: HALF SIZE



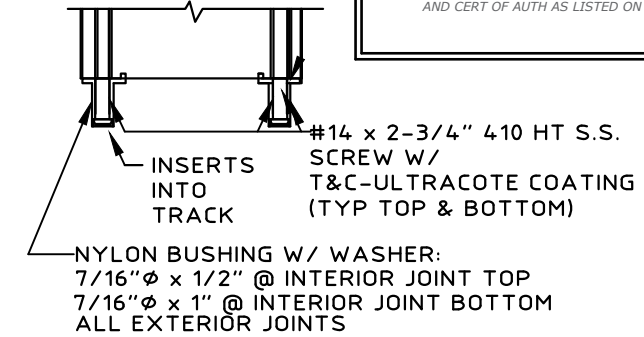
2 CEILING HEADER/SILL
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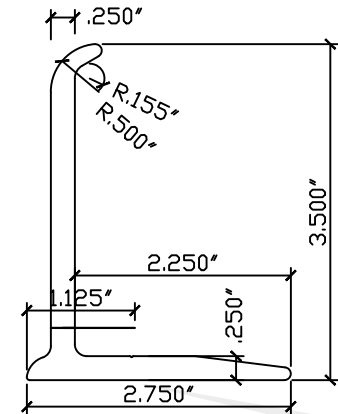
3 6.8 STARTER
SCALE: HALF SIZE



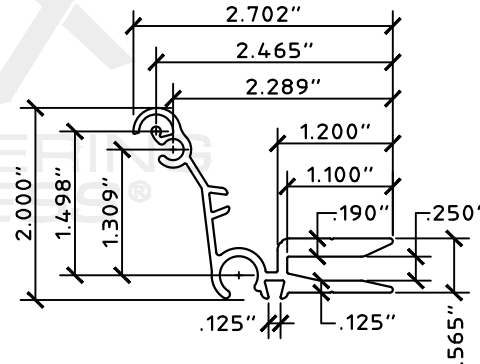
4 ROLLER ASSEMBLY
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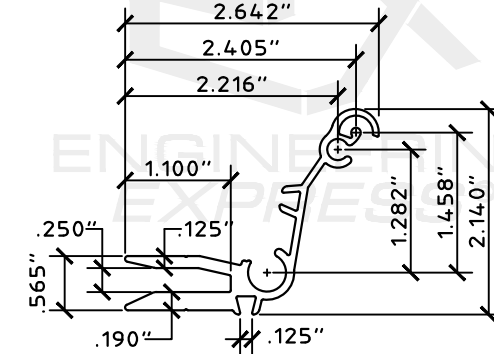
5 BUSHING ASSEMBLY DETAIL
SCALE: HALF SIZE



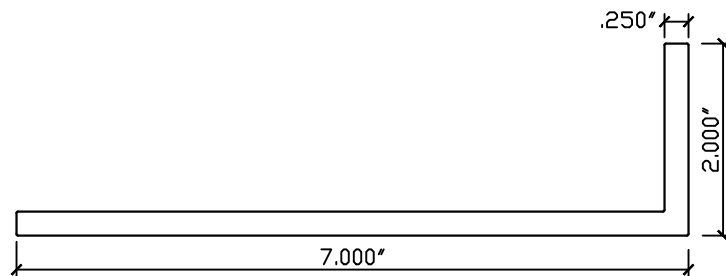
6 RAINGUARD
SCALE: HALF SIZE



7 OUTSIDE CENTER MATE
SCALE: HALF SIZE



8 INSIDE CENTER MATE
SCALE: HALF SIZE

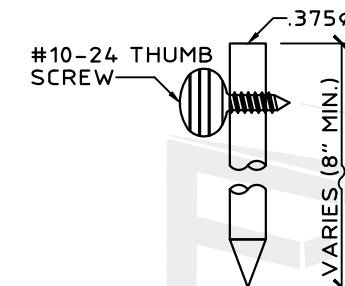


9 2X7 ANGLE
SCALE: HALF SIZE



1/4-20x1 OR 5/16-18x1
MACHINE SCREW STAINLESS
STEEL

11 THUMB SCREW
SCALE: FULL SIZE



FOR USE WITH
7 AND 8 ONLY

12 SLIDE ROD
SCALE: HALF SIZE

REMARKS	DRWN	CHKD	DATE
2020 FBC (20-26164)	CCB	RWN	6/17/20
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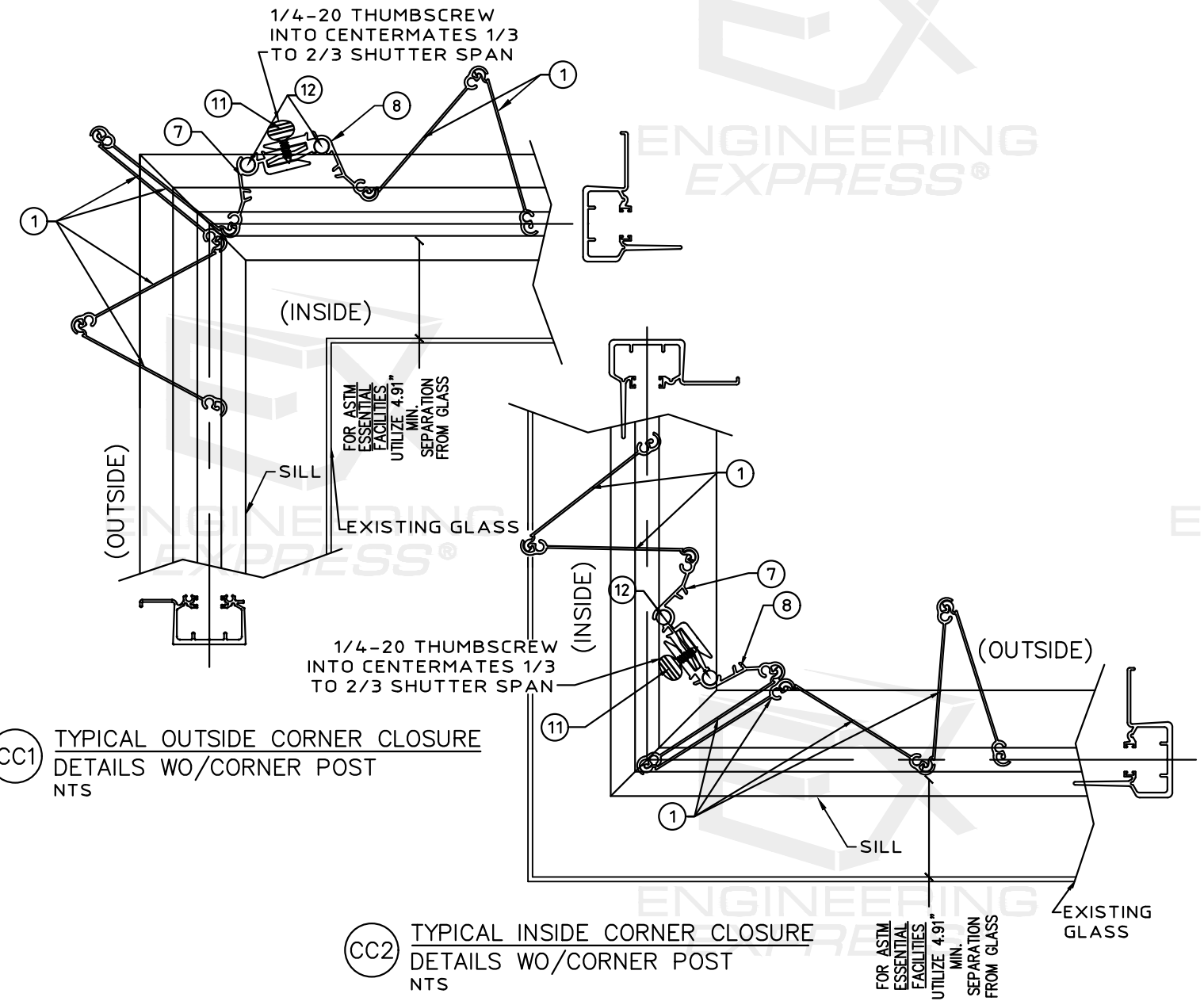
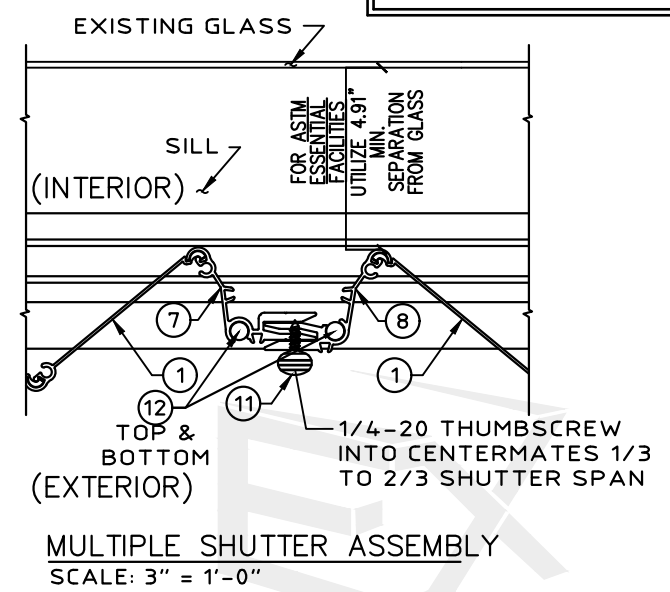
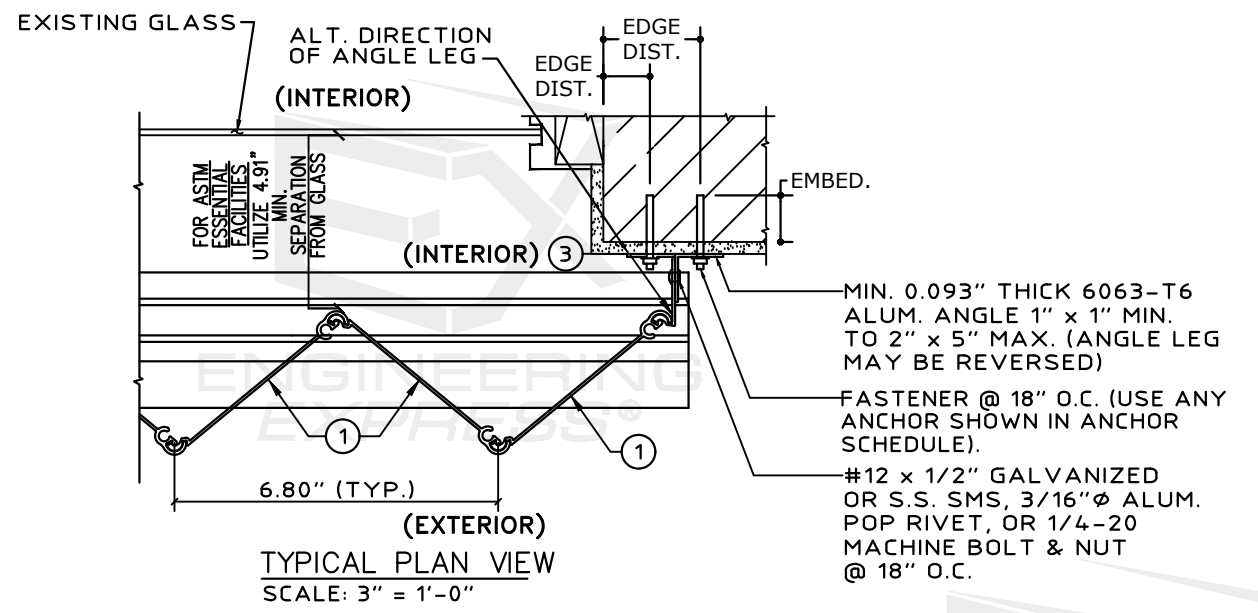
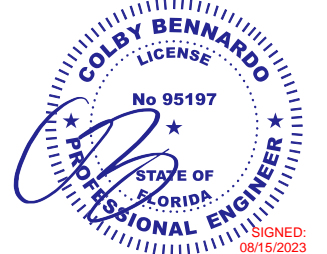
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UTILIZE (1) 1/4" ELCO ULTRACON EACH ANGLE WITH 1-3/4" EMBED TO 2.70 KSI MIN CONCRETE, 2-1/2" EDGE DISTANCE, 3" MIN SPACING (PROVIDE 1/2" MIN ALUMINUM ANGLE EDGE DISTANCE).

1" x 2" x 1/8" OR 2" x 2" x 1/8" ALUM. ANGLE (ANGLE LENGTH SHALL MATCH THE WIDTH OF THE TUBE BEING UTILIZED).

ALUM. TUBE 6063-T6 ALLOY SEE TABLE A FOR SIZE.

3/16" Ø ALUM. POP RIVET OR #12 SMS @ 18" O.C. (TYP.)

THREE 3/16" Ø ALUM. POP RIVETS OR THREE #12 SMS, TYP.

CC3 TYPICAL CORNER CLOSURE DETAILS NTS

TABLE A (CC3)
PRESSURE VS ALLOWABLE LENGTH

PSF	2"x2"x1/8" No B/O	3"x3"x1/8" No B/O
62	130"	132"
72	124"	132"
82	119"	132"
92	114"	132"
102	110"	132"
120	104"	132"
128	101"	132"

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CCB	RWV	6/17/20
MLD	CCB	08/15/23

REMARKS
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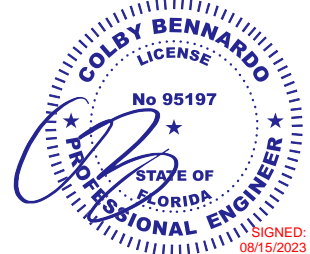
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3/16" Ø ALUM. POP RIVET OR #12 SMS @ 18" O.C. (TYP.)

3/16 RIVET OR #12 SMS @ 18" O.C. OR 1/4-20 NUT & BOLT (TYP.)

ALUM. TUBE 6063-T6 ALLOY SEE TABLE B FOR SIZE.

1" x 2" x .093" 6063-T6 ALUM. ANGLE, TYP.

UTILIZE (1) 1/4" DEWALT ULTRACON EACH ANGLE WITH 1-3/4" EMBED TO 2.70 KSI MIN CONCRETE, 2-1/2" EDGE DISTANCE, 3" MIN SPACING (PROVIDE 1/2" MIN ALUMINUM ANGLE EDGE DISTANCE).

THREE 3/16" Ø ALUM. POP RIVETS OR THREE #12 SMS, TYP.

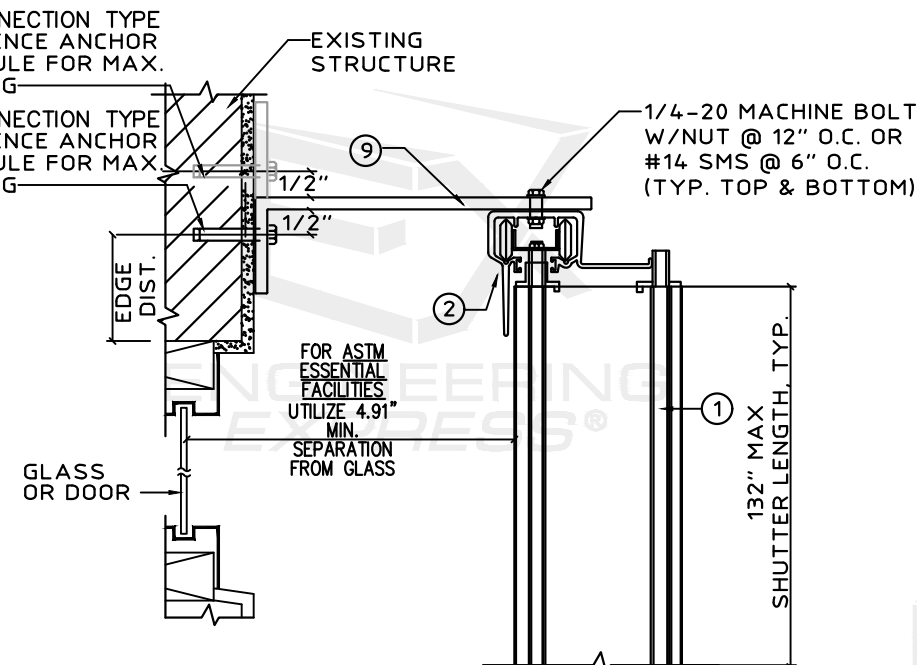
1" x 2" x 1/8" OR 2" x 2" x 1/8" ALUM. ANGLE (ANGLE LENGTH SHALL MATCH THE WIDTH OF THE TUBE BEING UTILIZED).

CC4 TYPICAL CORNER CLOSURE DETAILS NTS

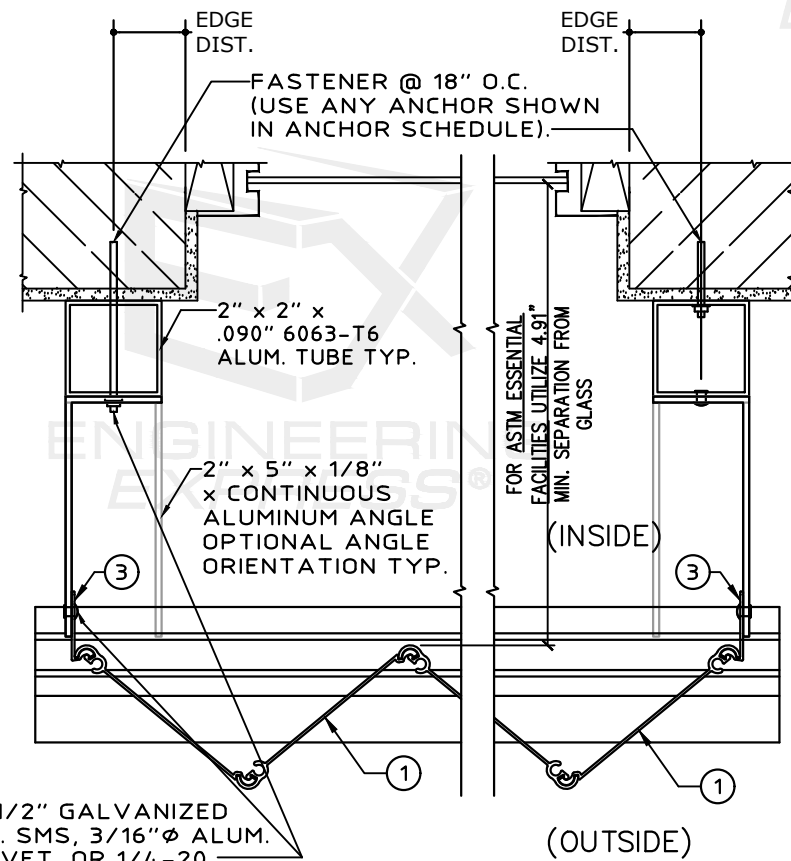
PSF	2"x2"x1/8" WITH B/O	3"x3"x1/8" WITH B/O
62	113"	132"
72	107"	132"
82	101"	132"
92	95"	132"
102	90"	132"
120	83"	122"
128	79"	117"

C2 CONNECTION TYPE REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING

C1 CONNECTION TYPE REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING



Cb ALTERNATE BUILD OUT MOUNT SECTION SCALE: 3" = 1'-0"



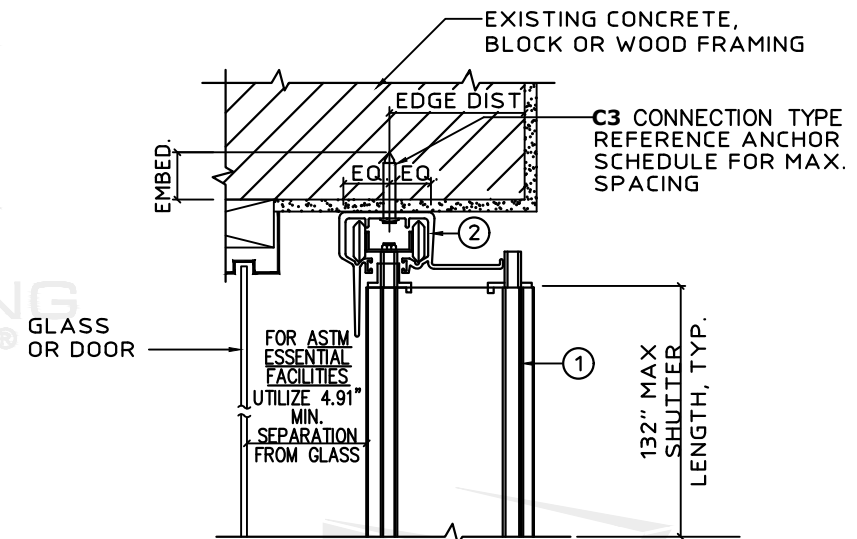
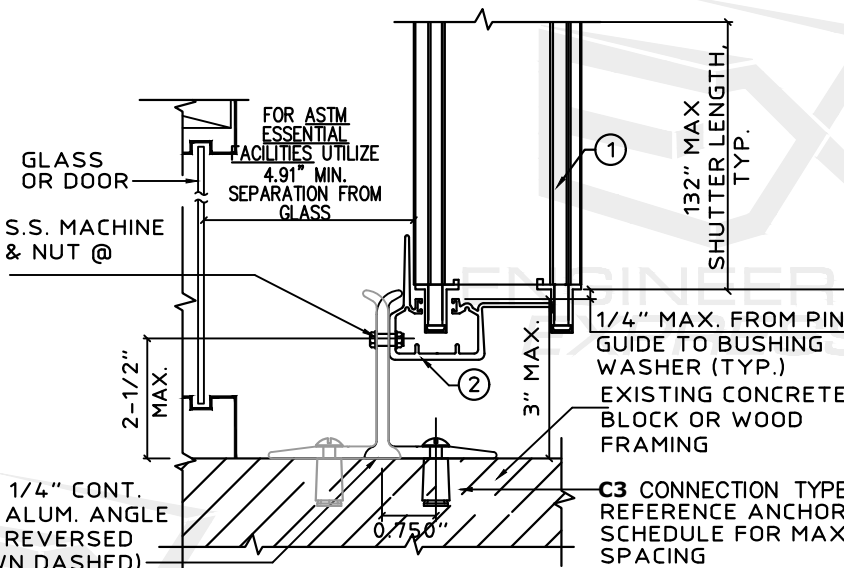
#12 x 1/2" GALVANIZED OR S.S. SMS, 3/16" Ø ALUM. POP RIVET, OR 1/4-20 MACHINE BOLT & NUT @ 18" O.C.

SIDE CLOSURE OPTIONS SCALE: 3" = 1'-0"

1/4-20 S.S. MACHINE SCREW & NUT @ 12" O.C.

6 OR 3" x 3" x 1/4" CONT. 6063-T6 ALUM. ANGLE (MAY BE REVERSED AS SHOWN DASHED)

D WALL MOUNT SECTION SCALE: 3" = 1'-0"



E CEILING / INSIDE MOUNT SECTION SCALE: 3" = 1'-0"

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ANCHOR SCHEDULE: CONCRETE

COLBY BENNARDO, P.E.
PE# 95197 CA# 9885

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AUGUST 15, 2023

HOST STRUCT.	ANCHOR	LOAD (psf)	2.5" MIN EDGE DISTANCE								
			Spans Up To 6'-0"			Spans Up To 8'-8"			Spans Up To 11'-0"		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
CONCRETE	1/4" ITW TAPCON WITH 1-3/4" EMBED (3192psi MIN CONC)	48	16.0"	16.0"	16.0"	16.0"	16.0"	11.0"	16.0"	16.0"	8.0"
		62	16.0"	16.0"	12.5"	16.0"	16.0"	7.5"	16.0"	15.5"	5.5"
		72	16.0"	16.0"	10.0"	16.0"	16.0"	6.5"	13.0"	12.0"	4.5"
		90	16.0"	16.0"	7.5"	13.5"	12.5"	5.0"	10.0"	8.5"	3.5"
		128	13.5"	12.5"	5.0"	8.5"	7.0"	3.0"	6.5"	5.0"	3.5"
		1/4" DEWALT ULTRACON WITH 1-3/4" EMBED (2700psi MIN CONC)	48	16.0"	16.0"	16.0"	16.0"	16.0"	10.5"	16.0"	16.0"
	62		16.0"	16.0"	12.5"	16.0"	16.0"	7.5"	14.0"	13.5"	5.5"
	72		16.0"	16.0"	10.0"	15.5"	16.0"	6.0"	11.5"	10.5"	4.5"
	90		16.0"	16.0"	7.5"	11.5"	10.5"	4.5"	8.5"	7.5"	3.5"
	128		12.0"	11.0"	4.5"	7.5"	6.0"	3.0"	5.5"	4.5"	3.5"
	1/4" DEWALT CRETEFLEX SS4 W/ 2" EMBED (3350psi MIN CONC)		48	16.0"	16.0"	16.0"	16.0"	16.0"	15.0"	16.0"	16.0"
		62	16.0"	16.0"	16.0"	16.0"	16.0"	10.5"	16.0"	16.0"	7.5"
		72	16.0"	16.0"	14.5"	16.0"	16.0"	8.5"	15.0"	13.5"	6.5"
		90	16.0"	16.0"	10.5"	15.5"	14.0"	6.5"	11.5"	9.5"	5.0"
		128	15.5"	14.5"	6.5"	10.0"	8.0"	4.0"	7.5"	6.0"	3.0"
		1/4" ITW TAPCON WITH 1-3/4" EMBED (3192psi MIN CONC)	48	16.0"	16.0"	7.5"	16.0"	16.0"	4.5"	16.0"	16.0"
	62		16.0"	16.0"	5.5"	16.0"	16.0"	3.5"	13.5"	13.0"	3.5"
	72		16.0"	16.0"	4.5"	15.5"	15.5"	3.0"	11.0"	10.0"	3.5"
	90		16.0"	16.0"	3.5"	11.5"	10.5"	3.0"	8.5"	7.0"	3.5"
	128		11.5"	10.5"	3.5"	7.0"	6.0"	3.0"	5.5"	4.5"	3.5"
	1/4" DEWALT ULTRACON WITH 1-3/4" EMBED (2700psi MIN CONC)		48	16.0"	16.0"	12.5"	16.0"	16.0"	7.5"	16.0"	16.0"
		62	16.0"	16.0"	8.5"	16.0"	16.0"	5.5"	13.5"	13.0"	4.0"
		72	16.0"	16.0"	7.0"	15.0"	15.5"	4.5"	11.0"	10.0"	3.0"
		90	16.0"	16.0"	5.0"	11.0"	10.5"	3.5"	8.0"	7.0"	3.0"
128		11.5"	10.5"	3.5"	7.0"	6.0"	3.0"	5.5"	4.5"	3.0"	
1/4" HILLMAN SOLID-SET ANCHOR W/ 7/8" EMBED & 1/4-20 SS MACHINE SCREW (3000psi MIN CONC)		48	16.0"	16.0"	9.5"	16.0"	16.0"	5.5"	13.5"	14.5"	4.0"
	62	16.0"	16.0"	6.5"	13.5"	14.5"	4.0"	9.5"	9.0"	3.0"	
	72	16.0"	16.0"	5.5"	10.5"	11.0"	3.5"	7.5"	7.0"	3.0"	
	90	13.0"	14.5"	4.0"	8.0"	7.5"	3.0"	6.0"	5.0"	3.0"	
	128	8.0"	7.5"	3.5"	5.0"	4.0"	3.0"	4.0"	3.0"	3.0"	
	1/4" HILLMAN SOLID-SET ANCHOR W/ 7/8" EMBED & 1/4-20 SS MACHINE SCREW (3000psi MIN CONC)	48	16.0"	16.0"	16.0"	16.0"	16.0"	13.0"	16.0"	16.0"	9.0"
62		16.0"	16.0"	15.0"	16.0"	16.0"	9.0"	16.0"	15.5"	6.5"	
72		16.0"	16.0"	12.0"	16.0"	16.0"	7.5"	13.0"	12.0"	5.5"	
90		16.0"	16.0"	9.0"	13.5"	12.0"	5.5"	10.0"	8.5"	4.0"	
128		13.5"	12.5"	5.5"	8.5"	7.0"	3.5"	6.5"	5.0"	3.0"	
1/4" DEWALT SS DROP-IN W/ 1/4-20 SS BOLT AND 1" EMBED (3000psi MIN CONC)		48	16.0"	16.0"	16.0"	16.0"	16.0"	9.5"	15.5"	16.0"	6.5"
	62	16.0"	16.0"	11.0"	15.0"	16.0"	6.5"	10.5"	10.5"	4.5"	
	72	16.0"	16.0"	9.0"	12.0"	12.5"	5.5"	9.0"	8.0"	4.0"	
	90	15.0"	16.0"	6.5"	9.0"	8.0"	4.0"	6.5"	5.5"	3.0"	
	128	9.0"	8.5"	4.0"	5.5"	4.5"	3.0"	4.5"	3.5"	3.0"	
	3/8" DEWALT SS DROP-IN W/ 3/8-16 SS BOLT AND 1" EMBED (3000psi MIN CONC)	48	16.0"	16.0"	16.0"	16.0"	16.0"	10.0"	16.0"	16.0"	7.0"
62		16.0"	16.0"	12.0"	16.0"	16.0"	7.0"	11.5"	11.0"	5.0"	
72		16.0"	16.0"	9.5"	13.0"	13.0"	5.5"	9.0"	8.5"	4.0"	
90		16.0"	16.0"	7.0"	9.5"	8.5"	4.0"	7.0"	6.0"	3.0"	
128		9.5"	9.0"	4.5"	6.0"	5.0"	3.0"	4.5"	3.5"	3.0"	

- ANCHOR NOTES:**
- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO MAXIMUM ALLOWABLE SHUTTER SPAN ILLUSTRATED HEREIN (Pg 1).
 - ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
 - SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
 - EXISTING STRUCTURE MAY BE CONCRETE, GROUT FILLED OR HOLLOW CONCRETE BLOCK (ALL BLOCK SHALL CONFORM TO ASTM C-90), OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE AND APPROPRIATE CONNECTION TYPE. SEE CONNECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
 - ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY, AS DEFINED IN ACI 355.2.
 - THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ANCHORS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. EMBEDMENT LENGTHS SHALL BE AS NOTED AND DO NOT INCLUDE STUCCO OR OTHER FINISHES.
 - WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
 - WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
 - MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
 - DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USE.
 - DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHER WINGNUT.
 - MINIMUM REQUIRED CONCRETE STRENGTHS ARE AS INDICATED IN ANCHOR SCHEDULE AND SHALL BE VERIFIED BY OTHER SEPARATELY.
 - ALL MILLENIUM MILLFAST CONCRETE SCREWS SHALL HAVE T&C ULTRACOTE

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2020 FBC (20-26164)	CCB	RWN	6/17/20
FBC 2023	MLD	CCB	08/15/23

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ANCHOR SCHEDULE: CONCRETE (CONT.)

HOST STRUCT.	ANCHOR	LOAD (psf)	2-3/16" MIN EDGE DISTANCE									3-1/8" MIN EDGE DISTANCE								
			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3
CONCRETE	5/16" ITW TAPCON XL WITH 1-3/4" EMBED (2899psi MIN CONC)	48	16.0"	16.0"	16.0"	16.0"	16.0"	13.5"	16.0"	16.0"	9.5"	16.0"	16.0"	16.0"	16.0"	16.0"	14.0"	16.0"	16.0"	10.0"
		62	16.0"	16.0"	16.0"	16.0"	16.0"	9.5"	16.0"	16.0"	7.0"	16.0"	16.0"	16.0"	16.0"	16.0"	9.5"	16.0"	16.0"	7.0"
		72	16.0"	16.0"	13.0"	16.0"	16.0"	8.0"	13.5"	12.5"	6.0"	16.0"	16.0"	13.0"	16.0"	16.0"	8.0"	14.0"	13.0"	6.0"
		90	16.0"	16.0"	9.5"	13.5"	12.5"	6.0"	10.0"	8.5"	4.5"	16.0"	16.0"	9.5"	14.0"	13.0"	6.0"	10.5"	9.0"	4.5"
	128	14.0"	13.0"	6.0"	9.0"	7.5"	4.0"	6.5"	5.5"	3.0"	14.5"	13.5"	6.0"	9.0"	7.5"	4.0"	7.0"	5.5"	3.0"	
	5/16" DEWALT ULTRACON WITH 1-3/4" EMBED (3500psi MIN CONC)	48	16.0"	16.0"	16.0"	16.0"	16.0"	15.5"	16.0"	16.0"	11.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	12.0"
		62	16.0"	16.0"	16.0"	16.0"	16.0"	11.0"	16.0"	16.0"	8.0"	16.0"	16.0"	16.0"	16.0"	16.0"	12.0"	16.0"	16.0"	8.5"
		72	16.0"	16.0"	15.0"	16.0"	16.0"	9.0"	14.5"	13.0"	6.5"	16.0"	16.0"	16.0"	16.0"	16.0"	9.5"	16.0"	14.5"	7.0"
		90	16.0"	16.0"	11.0"	14.5"	13.5"	6.5"	11.0"	9.5"	5.0"	16.0"	16.0"	11.5"	16.0"	15.0"	7.5"	12.0"	10.0"	5.5"
	128	15.0"	14.0"	7.0"	9.5"	8.0"	4.5"	7.0"	5.5"	3.5"	16.0"	15.5"	7.5"	16.0"	15.0"	4.5"	8.0"	6.0"	3.5"	
	1/4" DEWALT TAPPER+ W/ 1-3/4" EMBED (3000psi MIN CONC)	1-1/2" MIN EDGE DISTANCE									3" MIN EDGE DISTANCE									
		48	16.0"	16.0"	10.0"	16.0"	16.0"	6.0"	14.0"	15.0"	4.0"	16.0"	16.0"	16.0"	16.0"	16.0"	10.0"	16.0"	16.0"	7.5"
62		16.0"	16.0"	7.0"	13.5"	14.5"	4.0"	9.5"	9.5"	3.0"	16.0"	16.0"	12.0"	16.0"	16.0"	7.0"	14.5"	14.0"	5.0"	
72		16.0"	16.0"	5.5"	11.0"	11.0"	3.5"	8.0"	7.0"	3.0"	16.0"	16.0"	9.5"	16.0"	16.0"	6.0"	12.0"	11.0"	4.5"	
90		13.5"	14.5"	4.0"	8.0"	7.5"	3.0"	6.0"	5.0"	3.0"	16.0"	16.0"	7.0"	12.0"	11.0"	4.5"	9.0"	7.5"	3.5"	
128	8.0"	7.5"	3.0"	5.0"	4.0"	3.0"	4.0"	3.0"	3.0"	12.5"	11.5"	4.5"	7.5"	6.5"	3.0"	6.0"	4.5"	3.0"		

ANCHOR SCHEDULE: HOLLOW CONCRETE BLOCK

HOST STRUCT.	ANCHOR	LOAD (psf)	1" MIN EDGE DISTANCE									2-1/2" MIN EDGE DISTANCE								
			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3	C1	C2	C3
HOLLOW CONCRETE BLOCK	1/4" ITW TAPCON WITH 1-1/4" EMBED	48	7.5"	7.5"	3.0"	5.0"	5.0"	3.5"	4.0"	3.0"	10.5"	10.5"	6.5"	7.0"	7.0"	3.5"	5.0"	5.5"	3.0"	
		62	6.0"	6.0"	3.0"	3.5"	4.0"	3.0"	3.0"	3.0"	8.0"	8.0"	4.0"	5.0"	5.5"	3.0"	3.5"	3.5"	3.0"	
		72	5.0"	5.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	7.0"	7.0"	3.0"	4.0"	4.0"	3.0"	3.0"	3.0"	3.0"	
		90	3.5"	4.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	5.0"	5.5"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	
	128	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	
	1/4" DEWALT ULTRACON WITH 1-1/4" EMBED	48	11.5"	11.5"	6.5"	8.0"	8.0"	3.5"	5.5"	6.0"	3.0"	11.5"	11.5"	6.0"	8.0"	8.0"	3.0"	5.5"	6.0"	3.0"
		62	9.0"	9.0"	4.0"	5.5"	6.0"	3.0"	4.0"	4.0"	3.0"	9.0"	9.0"	4.0"	5.5"	6.0"	3.0"	4.0"	4.0"	3.0"
		72	7.5"	7.5"	3.0"	4.5"	4.5"	3.0"	3.0"	3.0"	7.5"	7.5"	3.0"	4.5"	4.5"	3.0"	3.0"	3.0"	3.0"	3.0"
		90	5.5"	6.0"	3.0"	3.0"	3.0"	3.0"	5.5"	6.0"	3.0"	5.5"	6.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"
	128	3.5"	3.0"	3.0"	3.0"	3.0"	3.0"	3.5"	3.0"	3.0"	3.5"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	3.0"	
	1/4" MILLENNIUM MILLFAST ANCHOR W/ 1-1/4" EMBED	48	14.0"	14.0"	6.0"	9.5"	9.5"	3.5"	7.0"	7.5"	3.0"	15.0"	15.0"	9.0"	10.5"	10.5"	5.0"	7.5"	8.0"	3.5"
		62	10.5"	10.5"	4.0"	6.5"	7.5"	3.0"	4.5"	4.5"	3.0"	11.5"	11.5"	5.5"	7.5"	8.0"	3.0"	5.0"	5.0"	3.0"
72		9.0"	9.0"	3.0"	5.5"	5.5"	3.0"	4.0"	3.5"	3.0"	10.0"	10.0"	4.5"	6.0"	6.0"	3.0"	4.5"	4.0"	3.0"	
90		6.5"	7.0"	3.0"	4.0"	3.5"	3.0"	7.5"	8.0"	3.0"	7.5"	8.0"	3.0"	4.5"	4.0"	3.0"	3.0"	3.0"	3.0"	
128	4.0"	3.5"	3.0"	4.0"	3.5"	3.0"	4.5"	4.0"	3.0"	4.5"	4.0"	3.0"	4.5"	4.0"	3.0"	4.5"	4.0"	3.0"		
1/4" HILLMAN SOLID-SET ANCHOR W/ 7/8" EMBED & 1/4-20 SS MACHINE SCREW	1-1/4" MIN EDGE DISTANCE									2" MIN EDGE DISTANCE										
	48	13.5"	13.5"	5.5"	9.5"	9.5"	3.0"	7.0"	7.5"	3.0"	16.0"	16.0"	9.5"	16.0"	16.0"	5.5"	12.0"	13.0"	4.0"	
	62	10.5"	10.5"	4.0"	6.5"	7.0"	3.0"	4.5"	4.5"	3.0"	16.0"	16.0"	6.5"	11.5"	12.5"	4.0"	8.0"	8.0"	3.0"	
	72	9.0"	9.0"	3.0"	5.5"	5.5"	3.0"	4.0"	3.5"	3.0"	15.5"	15.5"	5.0"	9.5"	9.5"	3.0"	6.5"	6.0"	3.0"	
90	6.5"	7.0"	3.0"	4.0"	3.5"	3.0"	3.0"	3.0"	3.0"	11.5"	12.5"	4.0"	7.0"	6.5"	3.0"	5.0"	4.5"	3.0"		
128	4.0"	3.5"	3.0"	4.0"	3.5"	3.0"	4.0"	3.5"	3.0"	7.0"	6.5"	3.0"	4.5"	3.5"	3.0"	3.0"	3.0"	3.0"		
5/16" ITW TAPCON XL WITH 1-3/4" EMBED	3" MIN EDGE DISTANCE									4" MIN EDGE DISTANCE										
	48	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	11.5"	12.0"	12.0"	6.0"	8.5"	9.0"	4.0"	
	62	13.0"	13.0"	7.5"	8.5"	9.0"	4.0"	13.0"	13.0"	7.5"	8.5"	9.0"	4.0"	6.0"	6.0"	3.0"	6.0"	6.0"	3.0"	
	72	11.5"	11.5"	5.5"	6.5"	7.0"	3.0"	11.5"	11.5"	5.5"	6.5"	7.0"	3.0"	5.0"	5.0"	3.0"	5.0"	4.5"	3.0"	
90	8.5"	9.0"	4.0"	5.0"	4.5"	3.0"	8.5"	9.0"	4.0"	5.0"	4.5"	3.0"	4.0"	4.0"	3.0"	4.0"	4.0"	3.0"		
128	5.0"	4.5"	3.0"	5.0"	4.5"	3.0"	5.0"	4.5"	3.0"	5.0"	4.5"	3.0"	5.0"	4.5"	3.0"	5.0"	4.5"	3.0"		
5/16" DEWALT ULTRACON WITH 1-1/4" EMBED	1-9/16" MIN EDGE DISTANCE									3-1/8" MIN EDGE DISTANCE										
	48	10.5"	10.5"	5.5"	7.5"	7.5"	3.0"	5.5"	5.5"	3.0"	16.0"	16.0"	10.5"	12.5"	12.5"	5.5"	9.5"	10.0"	3.0"	
	62	8.0"	8.0"	3.0"	5.0"	5.5"	3.0"	8.0"	8.0"	3.0"	14.5"	14.5"	6.5"	9.0"	10.0"	3.0"	6.5"	6.0"	3.0"	
	72	7.0"	7.0"	3.0"	4.0"	4.0"	3.0"	7.0"	7.0"	3.0"	12.5"	12.5"	5.5"	7.5"	7.5"	3.0"	5.0"	5.0"	3.0"	
90	5.0"	5.5"	3.0"	4.0"	4.0"	3.0"	5.0"	5.0"	3.0"	9.0"	10.0"	3.0"	5.5"	5.0"	3.0"	5.0"	5.0"	3.0"		
128	5.0"	5.0"	3.0"	5.0"	5.0"	3.0"	5.0"	5.0"	3.0"	5.5"	5.0"	3.0"	5.5"	5.0"	3.0"	5.5"	5.0"	3.0"		

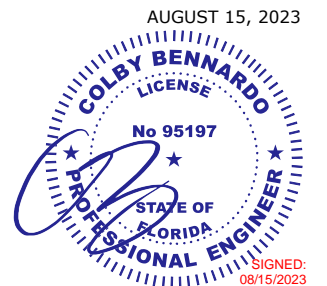
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REMARKS	DRWN	CHKD	DATE
2020 FBC (20-26164)	CCB	RWN	6/17/20
FBC 2023	MLD	CCB	08/15/23

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IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP

AUGUST 15, 2023

COLBY BENNARDO
LICENSE
No 95197
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SIGNED: 08/15/2023

ANCHOR SCHEDULE: HOLLOW CONCRETE BLOCK (CONT.)

HOST STRUCT.	ANCHOR	LOAD (psf)	2" MIN EDGE DISTANCE								
			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
	1/4" DEWALT TAPPER+ W/ 1-1/4" EMBED	48	15.5"	15.5"	6.5"	10.5"	10.5"	4.0"	8.0"	8.5"	
	62	12.0"	12.0"	4.5"	7.5"	8.0"		5.5"	5.0"		
	72	10.5"	10.5"		6.0"	6.0"		4.5"	4.0"		
	90	7.5"	8.0"		4.5"	4.0"					
	128	4.5"	4.0"								

ANCHOR SCHEDULE: WOOD (G=0.55)

HOST STRUCT.	ANCHOR	LOAD (psf)	3/4" MIN EDGE DISTANCE								
			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
WOOD (G=0.55)		48	16.0"	16.0"	11.5"	16.0"	16.0"	7.0"	16.0"	16.0"	5.5"
		62	16.0"	16.0"	8.5"	16.0"	16.0"	5.5"	16.0"	16.0"	4.0"
		72	16.0"	16.0"	7.0"	16.0"	16.0"	4.5"	16.0"	16.0"	3.5"
		90	16.0"	16.0"	5.5"	16.0"	16.0"	3.5"	13.0"	11.5"	2.5"
		128	16.0"	16.0"	3.5"	11.5"	9.5"	2.5"	8.5"	7.0"	
		48	16.0"	16.0"	9.5"	13.0"	13.0"	5.0"	9.5"	10.5"	3.5"
		62	14.5"	14.5"	6.0"	9.5"	10.0"	3.5"	6.5"	6.5"	2.5"
		72	12.5"	12.5"	5.0"	7.5"	7.5"	3.0"	5.5"	5.0"	2.0"
		90	9.5"	10.0"	3.5"	5.5"	5.0"	2.0"	4.0"	3.5"	
	128	5.5"	5.0"	2.0"	3.5"	3.0"		2.5"	2.0"		
		48	16.0"	16.0"	13.0"	16.0"	16.0"	8.0"	16.0"	16.0"	6.0"
		62	16.0"	16.0"	9.5"	16.0"	16.0"	6.0"	16.0"	16.0"	4.5"
		72	16.0"	16.0"	7.5"	16.0"	16.0"	5.0"	14.0"	13.0"	3.5"
		90	16.0"	16.0"	6.0"	14.5"	13.0"	3.5"	10.5"	9.0"	3.0"
		128	14.5"	13.5"	4.0"	9.0"	7.5"	2.5"	7.0"	5.5"	2.0"

ANCHOR SCHEDULE: GROUT-FILLED CONCRETE BLOCK

HOST STRUCT.	ANCHOR	LOAD (psf)	4" MIN EDGE DISTANCE								
			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
GROUT-FILLED CONCRETE BLOCK		48	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	16.0"	11.5"
		62	16.0"	16.0"	16.0"	16.0"	16.0"	11.5"	16.0"	16.0"	8.5"
		72	16.0"	16.0"	15.5"	16.0"	16.0"	9.5"	16.0"	16.0"	7.0"
		90	16.0"	16.0"	11.5"	16.0"	16.0"	7.0"	13.5"	11.5"	5.5"
		128	16.0"	16.0"	7.5"	12.0"	10.0"	4.5"	9.0"	7.0"	
		48	16.0"	16.0"	13.5"	16.0"	16.0"	7.5"	12.0"	13.0"	5.0"
		62	16.0"	16.0"	8.5"	12.0"	12.5"	5.0"	8.5"	8.0"	
		72	16.0"	16.0"	7.0"	9.5"	9.5"		7.0"	6.0"	
		90	11.5"	12.5"	5.0"	7.0"	6.5"		5.0"	4.5"	
		128	7.0"	6.5"		4.5"					

ANCHOR SCHEDULE: WOOD (G=0.42)

HOST STRUCT.	ANCHOR	LOAD (psf)	3/4" MIN EDGE DISTANCE								
			Spans Up To 6'-0" CONN TYPE			Spans Up To 8'-8" CONN TYPE			Spans Up To 11'-0" CONN TYPE		
			C1	C2	C3	C1	C2	C3	C1	C2	C3
WOOD (G=0.42)		48	16.0"	16.0"	9.0"	16.0"	16.0"	5.5"	16.0"	16.0"	4.0"
		62	16.0"	16.0"	6.5"	16.0"	16.0"	4.0"	14.0"	14.0"	3.0"
		72	16.0"	16.0"	5.5"	16.0"	16.0"	3.5"	11.5"	10.5"	2.5"
		90	16.0"	16.0"	4.0"	12.0"	11.0"	2.5"	8.5"	7.5"	2.0"
		128	12.0"	11.0"	2.5"	7.5"	6.5"		5.5"	4.5"	
		48	16.0"	16.0"	9.5"	16.0"	16.0"	5.5"	14.0"	15.0"	4.0"
		62	16.0"	16.0"	6.5"	14.0"	15.0"	4.0"	10.0"	9.5"	3.0"
		72	16.0"	16.0"	5.5"	11.0"	11.5"	3.5"	8.0"	7.5"	2.5"
		90	14.0"	15.0"	4.0"	8.0"	7.5"	2.5"	6.0"	5.0"	2.0"
		128	8.5"	8.0"	2.5"	5.0"	4.5"		4.0"	3.0"	

ANCHOR NOTES: SEE SHEET 5 FOR ANCHOR NOTES.

FL 13757.3

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FLORIDA STATEWIDE APPROVAL (FSA FL#13757.3)

REMARKS	DRWN	CHKD	DATE
2020 FBC (20-26164)	CCB	RWIN	6/17/20
FBC 2023	MLD	CCB	08/15/23

23-61156

SCALE: NTS UNLESS NOTED

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