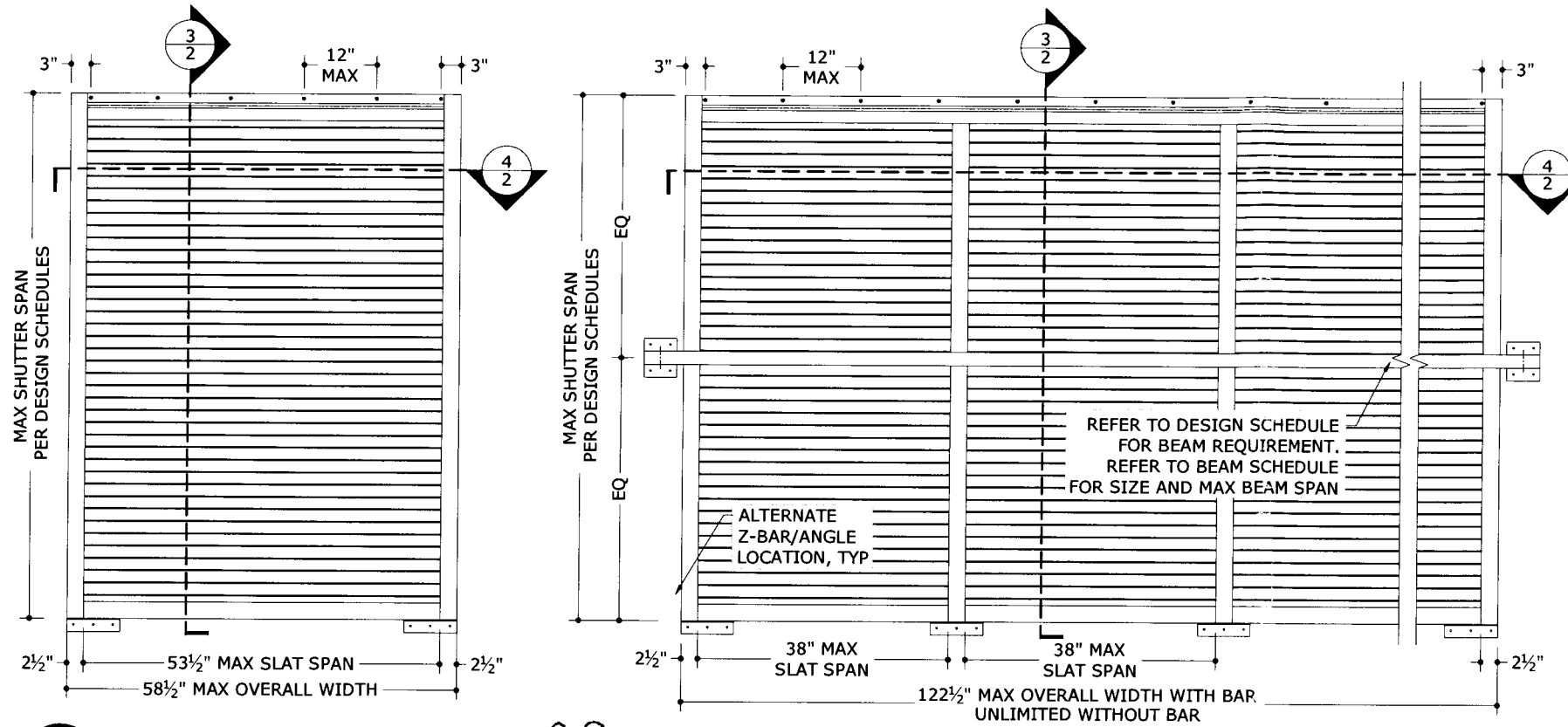


FULLVIEW BAHAMA SHUTTER

PATENT #8126298



GENERAL NOTES

1. THIS SYSTEM HAS BEEN TESTED AND EVALUATED IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE AND INTERNATIONAL RESIDENTIAL CODE WITH TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008.
2. THIS SHUTTER SYSTEM MAY BE USED IN THE SEAWARD AND INLAND AREAS AS DEFINED BY THE TEXAS DEPARTMENT OF INSURANCE.
3. 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.
4. 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.
5. 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.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. SHUTTER MAY BE INSTALLED AS SINGLE PANEL OR AS MULTI-PANEL SPANS TO UNLIMITED WIDTH, SEE DETAIL 1/2 & 3/4 FOR MAXIMUM SLAT SPANS.
8. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE. ALL TOLERANCES SHALL BE IN ACCORDANCE WITH ADM 2005.
9. THIS SYSTEM MUST BE CLOSED AND LOCKED FOR WIND AND IMPACT PROTECTION. THIS SYSTEM HAS BEEN DESIGNED FOR A WIND PRESSURE OF 18 PSF IN THE OPEN POSITION. A PERMANENT LABEL MUST BE ADHERED TO THE UNDERSIDE OF EACH BAHAMA SHUTTER CONTAINING THE FOLLOWING:
SHUTTER AND LOUVERS TO BE CLOSED AND LOCKED WHEN HURRICANE WARNINGS ARE ISSUED
10. BAHAMA SHUTTERS SHALL BE PERMANENTLY LABELED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE AND CONTAIN AT LEAST THE FOLLOWING:
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11. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, STAINLESS STEEL, OR 2024-T6 ALUMINUM ALLOY WITH A MINIMUM TENSILE YIELD STRENGTH OF 33 KSI.
12. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.

1 SINGLE PANEL SPAN
1 N.T.S. EXTER. ELEVATION



2 MULTI PANEL SPAN
1 N.T.S. EXTER. ELEVATION

TABLE 1
ALLOWABLE DESIGN PRESSURES

MAX SHUTTER SPAN	CONFIGURATION		
	SINGLE PANEL SPAN	MULTI PANEL SPAN	
		W/O BEAM	W/ BEAM
69"	+78/-95 PSF	+78/-95 PSF*	+78/-95 PSF*
81 5/8"	+78/-95 PSF	+50/-50 PSF+*	+78/-95 PSF*
96 3/4"	+78/-95 PSF*	+50/-50 PSF+*	+78/-95 PSF*

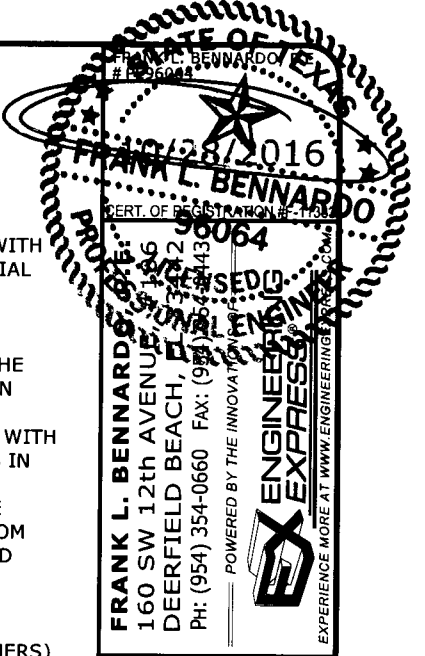
*NOTE: LIMITED TO A MAX SLAT SPAN OF 38"
 +NOTE: NOT APPROVED FOR USE IN ESSENTIAL FACILITIES.

TABLE 2
ESSENTIAL FACILITIES
NOT REQUIRED FOR WIND ZONES 1-4
MINIMUM SEPARATION FROM GLASS

MAX SHUTTER SPAN	DESIGN PRESSURE	CONFIGURATION		
		SINGLE PANEL SPAN	MULTI PANEL SPAN	
			W/O BEAM	W/ BEAM
69"	+78/-95 PSF	3 7/8"	4 3/8"	2 7/8"
81 5/8"	+78/-95 PSF	3 7/8"	-	2 7/8"
96 3/4"	+78/-95 PSF	2 7/8"*	-	2 7/8"

*NOTE: LIMITED TO A MAX SLAT SPAN OF 38"

- TABLE 1 & 2 NOTES:**
1. FOR SPANS BETWEEN TABULATED VALUES, USE NEXT HIGHER SPAN.
 2. FOR INSTALLATIONS IN ASTM WIND ZONES 1 THROUGH 4, TABLE 2 IS NOT REQUIRED AND NO MINIMUM SEPARATION FROM THE PROTECTED OPENING IS REQUIRED.
 3. TABLE 2 SHALL BE USED TO DETERMINE THE MINIMUM SEPARATION FROM GLASS FOR ESSENTIAL FACILITIES.
 4. SEPARATION FROM GLASS AS SHOWN IN TABLE 2 IS MEASURED FROM THE INTERIOR SIDE OF CLOSED LOUVER BLADES TO THE PROTECTED FENESTRATION PRODUCT.



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RWN	FLB	10/27/16

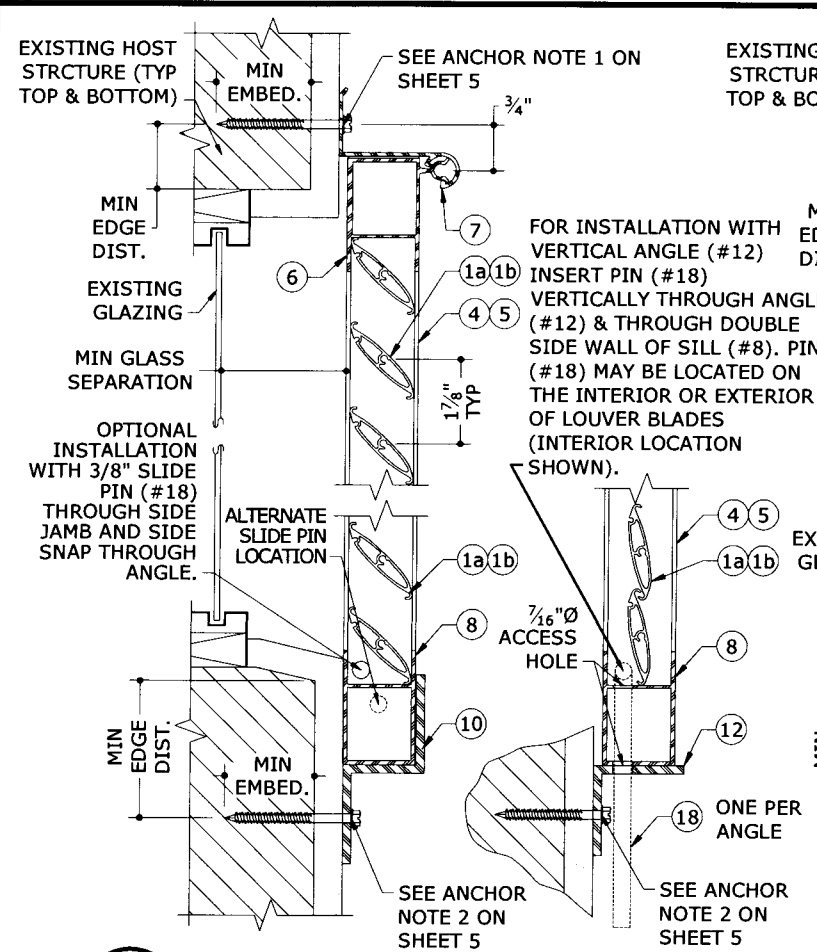
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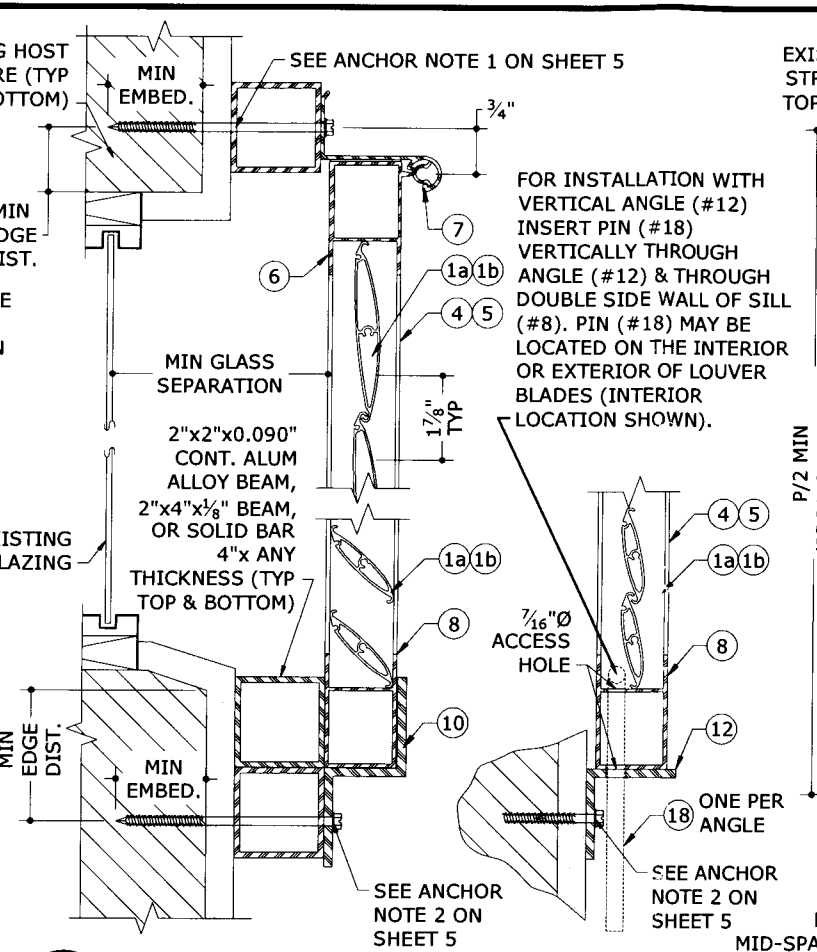
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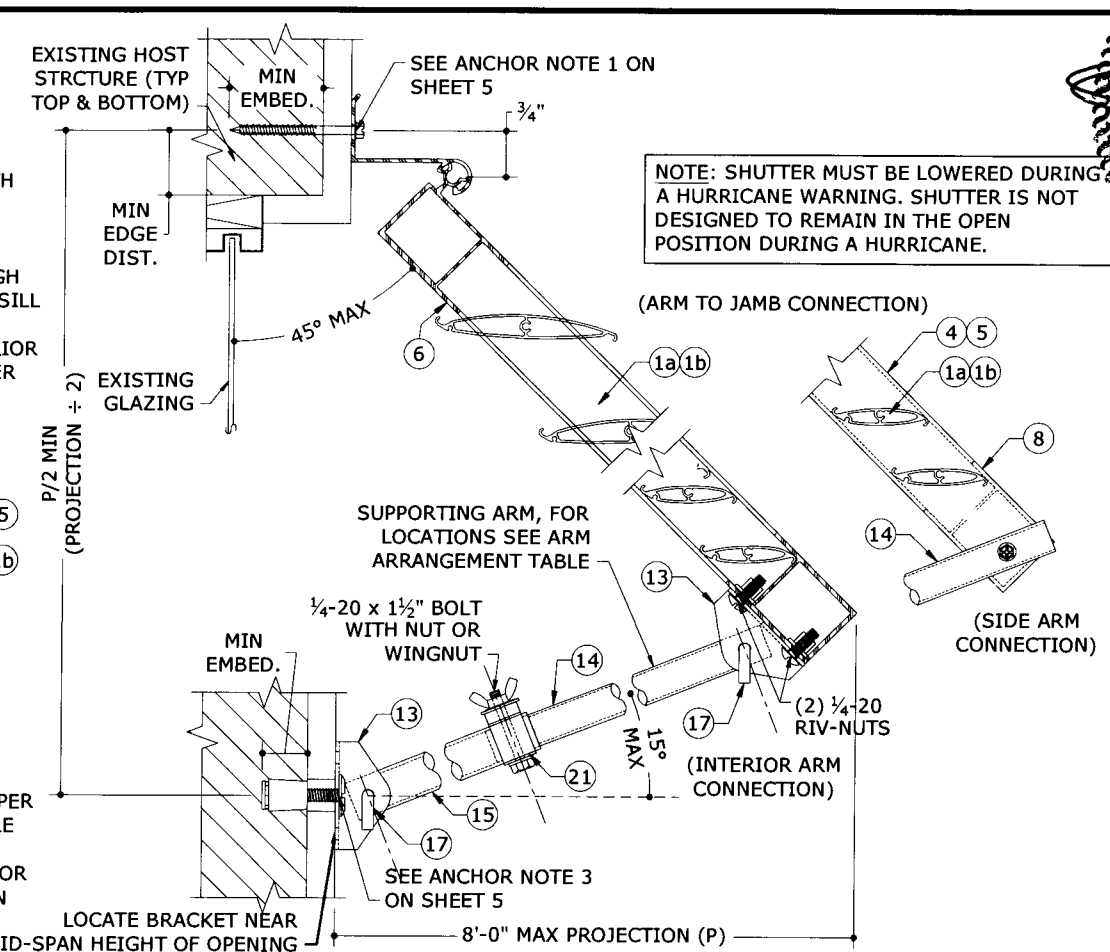
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3a TYPICAL CLOSED POSITION
2 N.T.S. VERTICAL SECTION

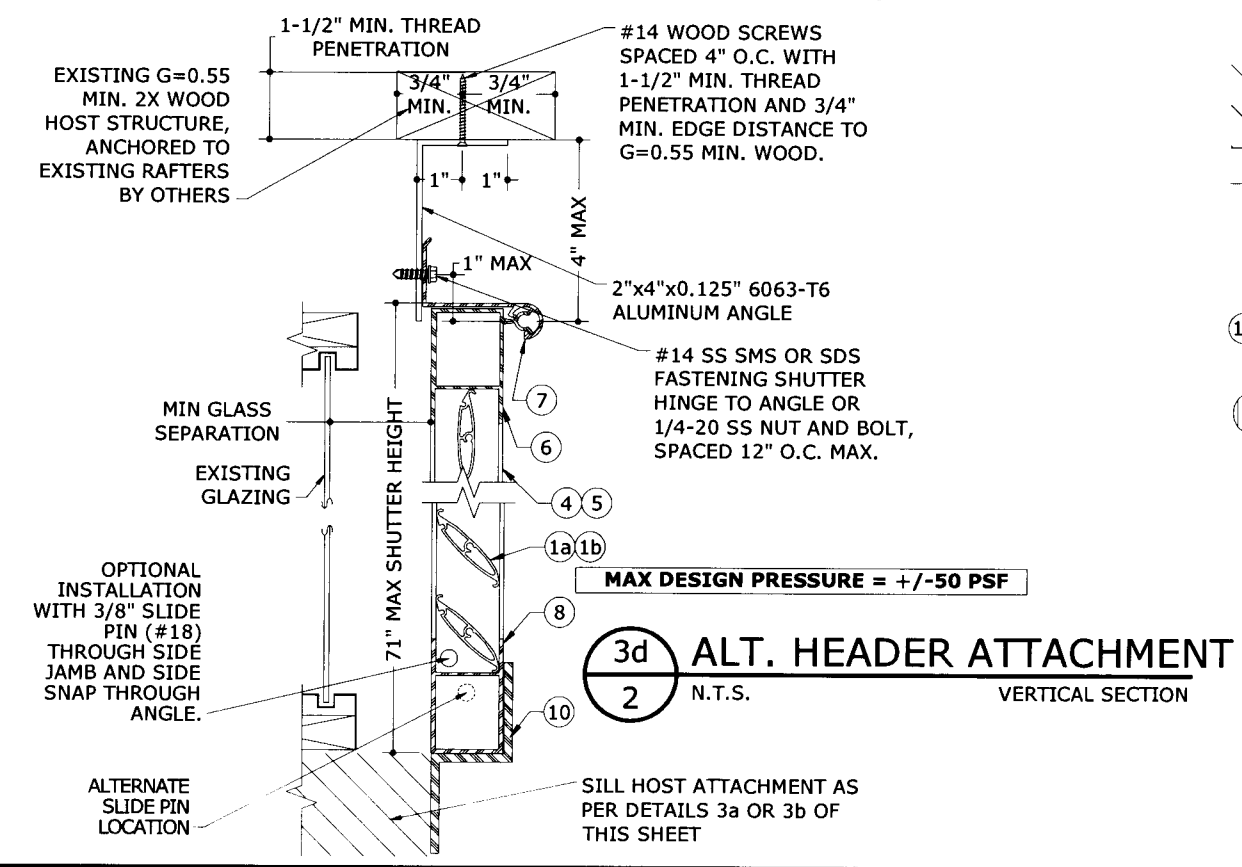


3b BUILD-OUT CLOSED POSITION
2 N.T.S. VERTICAL SECTION

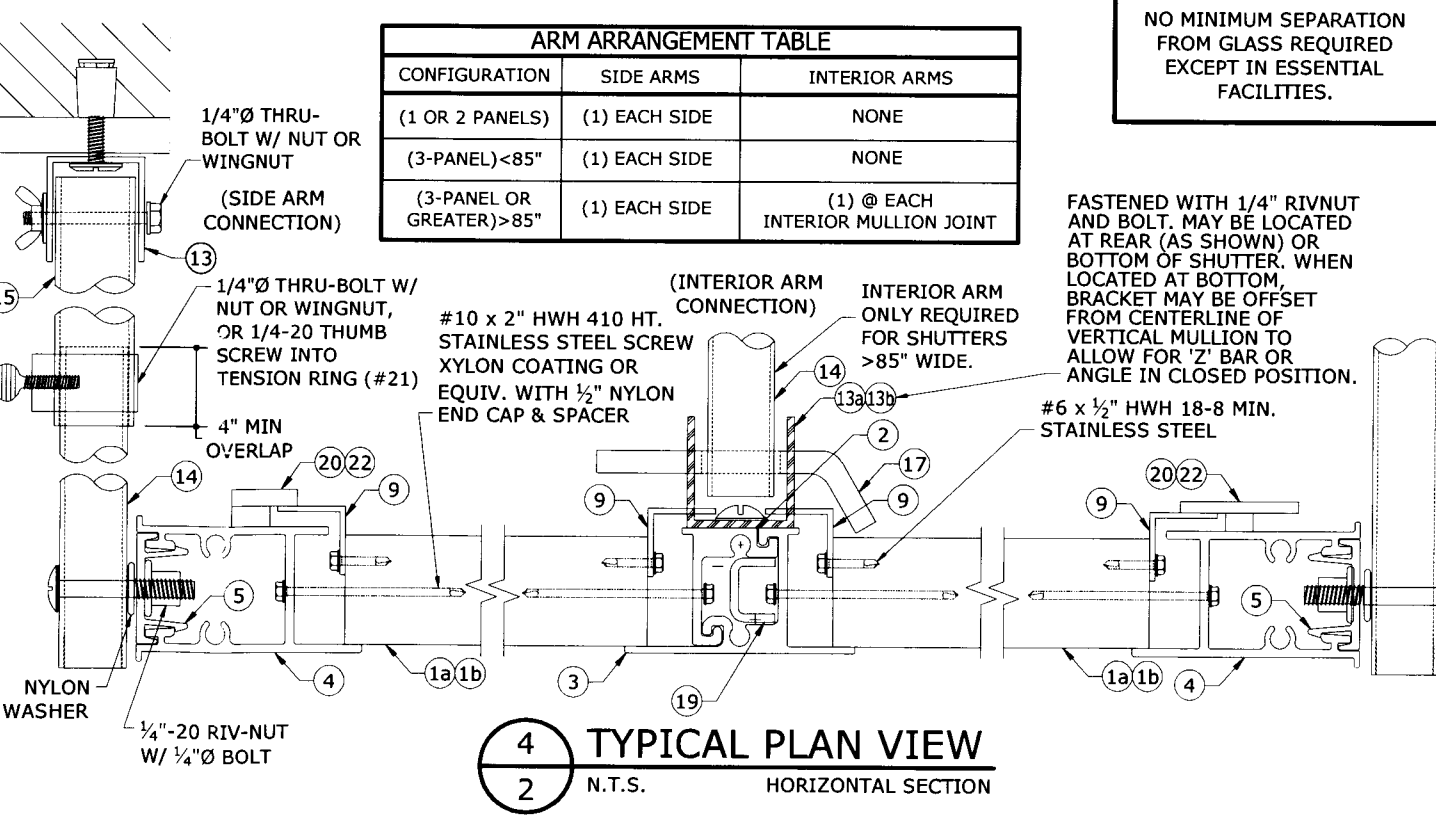


3c TYPICAL OPEN POSITION
2 N.T.S. VERTICAL SECTION

NOTE: SHUTTER MUST BE LOWERED DURING A HURRICANE WARNING. SHUTTER IS NOT DESIGNED TO REMAIN IN THE OPEN POSITION DURING A HURRICANE.



3d ALT. HEADER ATTACHMENT
2 N.T.S. VERTICAL SECTION



4 TYPICAL PLAN VIEW
2 N.T.S. HORIZONTAL SECTION

ARM ARRANGEMENT TABLE		
CONFIGURATION	SIDE ARMS	INTERIOR ARMS
(1 OR 2 PANELS)	(1) EACH SIDE	NONE
(3-PANEL) < 85"	(1) EACH SIDE	NONE
(3-PANEL OR GREATER) > 85"	(1) EACH SIDE	(1) @ EACH INTERIOR MULLION JOINT

NO MINIMUM SEPARATION FROM GLASS REQUIRED EXCEPT IN ESSENTIAL FACILITIES.

FASTENED WITH 1/4" RIVNUT AND BOLT. MAY BE LOCATED AT REAR (AS SHOWN) OR BOTTOM OF SHUTTER. WHEN LOCATED AT BOTTOM, BRACKET MAY BE OFFSET FROM CENTERLINE OF VERTICAL MULLION TO ALLOW FOR 'Z' BAR OR ANGLE IN CLOSED POSITION.

#6 x 1/2" HWH 18-8 MIN. STAINLESS STEEL

STATE OF TEXAS

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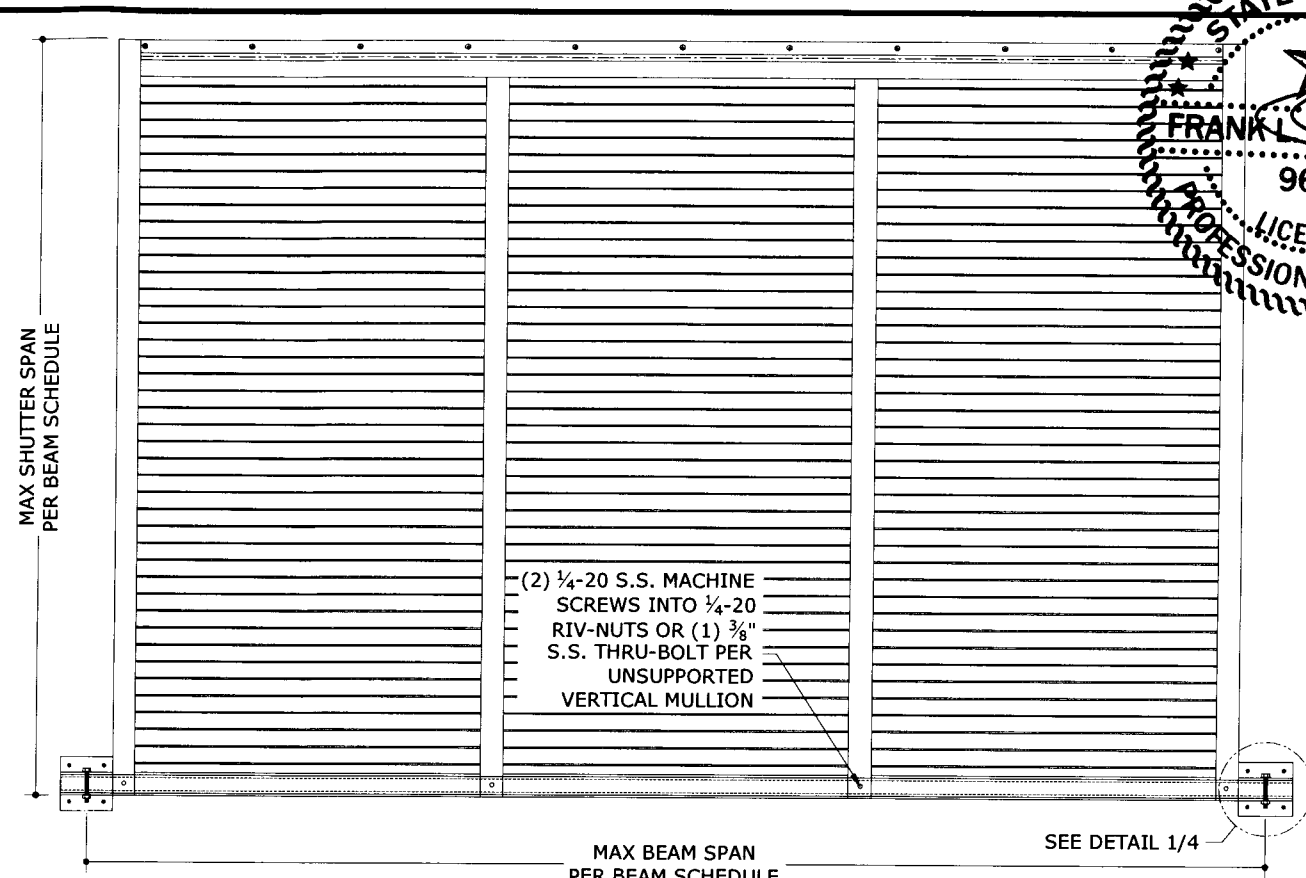
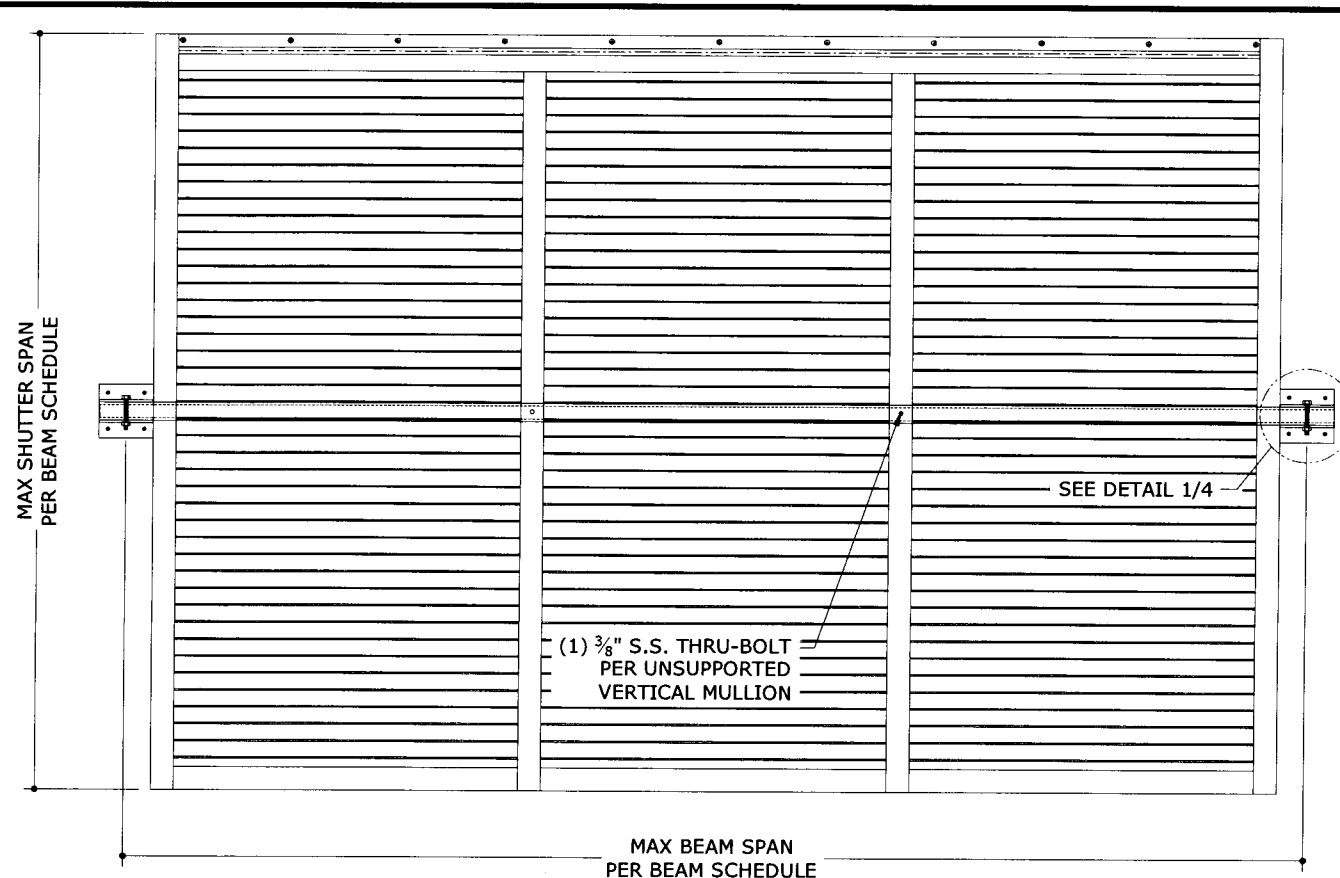
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1 MID-SPAN BEAM (AS REQUIRED)
 3 N.T.S. EXTER. ELEVATION

2 BOTTOM BEAM (OPTIONAL)
 3 N.T.S. EXTER. ELEVATION

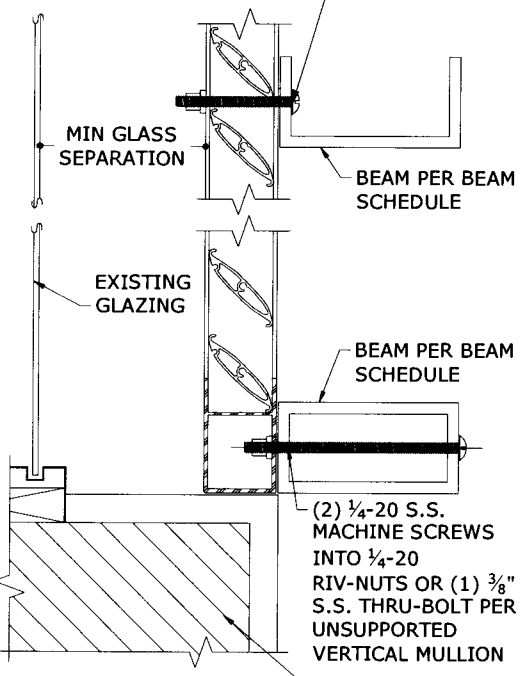
WALL BRACKET ANCHORS TYPES:

- **TYPE A:** 1/4-20 ALL POINT SOLID SET ANCHORS:
 - IN CONCRETE (3.35KSI MIN) WITH 7/8" MIN EMBED. AND 3" MIN EDGE DIST.
 - IN HOLLOW CONCRETE BLOCK WITH 7/8" MIN EMBED. AND 3" MIN EDGE DIST.
- **TYPE B:** 1/4-20 ELCO PANELMATES (MALE/FEMALE):
 - IN CONCRETE (3.35KSI MIN) WITH 1 3/4" MIN EMBED. AND 2 1/2" MIN EDGE DIST.
 - IN HOLLOW CONCRETE BLOCK WITH 1 1/4" MIN EMBED. AND 2" MIN EDGE DIST.
 - IN WOOD (G=0.42 MIN) WITH 1 1/2" MIN EMBED. AND 3/4" MIN EDGE DIST.
- **TYPE C:** 1/4" ITW TAPCON SG:
 - IN CONCRETE (3.35KSI MIN) WITH 1 3/4" MIN EMBED. AND 2 1/2" MIN EDGE DIST.
 - IN HOLLOW CONCRETE BLOCK WITH 1 1/4" MIN EMBED. AND 2" MIN EDGE DIST.
 - IN WOOD (G=0.42 MIN) WITH 1 1/8" MIN EMBED. AND 3/4" MIN EDGE DIST.
- **TYPE D*:** 1/4" MILLENNIUM MILLFAST:
 - IN CONCRETE (3.275KSI MIN) WITH 1 3/4" EMBED AND 2 1/2" EDGE DIST.
 - IN HOLLOW CONCRETE BLOCK WITH 1 1/4" EMBED. AND 2 1/2" MIN EDGE DIST.
- **TYPE E:** #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT:
 - IN CONCRETE (2KSI MIN) WITH 2" EMBED AND 2" EDGE DIST.
 - IN HOLLOW CONCRETE BLOCK WITH 1 1/4" EMBED AND 2" EDGE DIST.

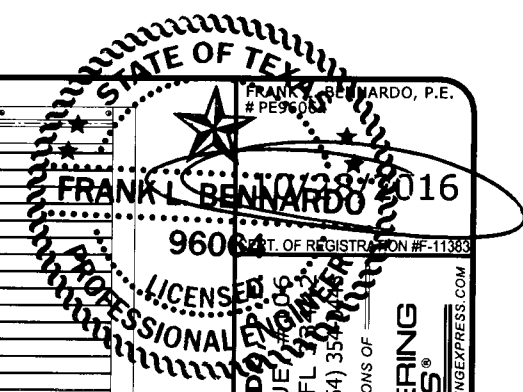
BEAM SCHEDULE:

BEAM SIZE	ALUMINUM ALLOY	SHUTTER SPAN	BEAM SPAN (+/- 40 PSF MAX)	BEAM SPAN (+/- 50 PSF MAX)	BEAM SPAN (+/- 60 PSF MAX)	BEAM SPAN (+/- 95 PSF MAX)	WALL BRACKET ANCHOR TYPES (+/-95 PSF MAX)			WALL BRACKET ANCHOR TYPES (+/-50 PSF MAX)		
							CONCRETE	HOLLOW BLOCK	WOOD (G=0.42 MIN)	CONCRETE	HOLLOW BLOCK	WOOD (G=0.42 MIN)
2"x3"x1/8"	6063-T6	8'-0"	7'-9"	7'-0"	6'-4"	5'-1"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,B,C,E	B,C
		6'-8"	8'-7"	7'-8"	7'-0"	5'-7"	A,B,C,D,E	A,C,E	B,C	A,B,C,D,E	A,B,C,E	B,C
		5'-10"	9'-2"	8'-2"	7'-6"	5'-11"	A,B,C,D,E	A,B,C,E	B,C	A,B,C,D,E	A,B,C,D,E	B,C
2"x4"x1/8"	6063-T6	8'-0"	9'-7"	8'-7"	7'-10"	6'-3"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,C,E	B,C
		6'-8"	10'-6"	9'-5"	8'-7"	6'-10"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,B,C,E	B,C
		5'-10"	11'-3"	10'-1"	9'-2"	7'-4"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,B,C,E	B,C
2"x5"x1/8"	6063-T6	8'-0"	11'-5"	10'-2"	9'-4"	7'-5"	A,B,C,D,E	A,C		A,B,C,D,E	A,C	B,C
		6'-8"	12'-6"	11'-2"	10'-2"	8'-1"	A,B,C,D,E	A,C		A,B,C,D,E	A,C	B,C
		5'-10"	13'-4"	11'-11"	10'-11"	8'-9"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,C,E	B,C
2"x4"x1/4"	6061-T6	8'-0"	14'-10"	13'-3"	12'-2"	9'-8"	A,B,C			A,B,C,D,E	A,C	
		6'-8"	16'-3"	14'-7"	13'-3"	10'-7"	A,B,C,D,E			A,B,C,D,E	A,C	
		5'-10"	17'-5"	15'-7"	14'-2"	11'-3"	A,B,C,D,E	A		A,B,C,D,E	A,C	B,C
4"x2"x0.23"x0.15"	6063-T6	8'-0"	9'-4"	8'-4"	7'-9"	6'-1"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,B,C,E	B,C
		6'-8"	10'-3"	9'-2"	8'-4"	6'-3"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,B,C,E	B,C
		5'-10"	10'-11"	9'-9"	8'-11"	7'-1"	A,B,C,D,E	A,C	B,C	A,B,C,D,E	A,B,C,E	B,C
6"x2"x0.29"x0.17"	6061-T6	8'-0"	17'-3"	15'-6"	14'-1"	11'-3"	A,B,C			A,B,C,D,E	A,C	

*MILLENNIUM MILLFAST ANCHORS MUST BE SPACED AT 4" O.C. MINIMUM



3 BEAM CONNECTION TO SHUTTER
 3 N.T.S. VERTICAL SECTION



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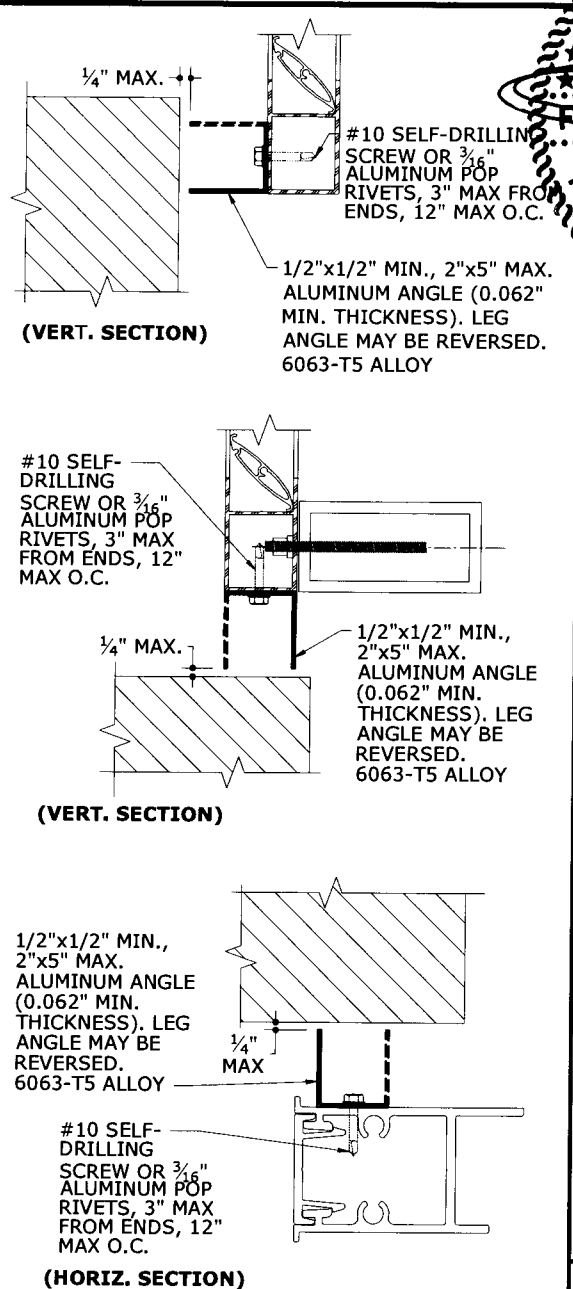
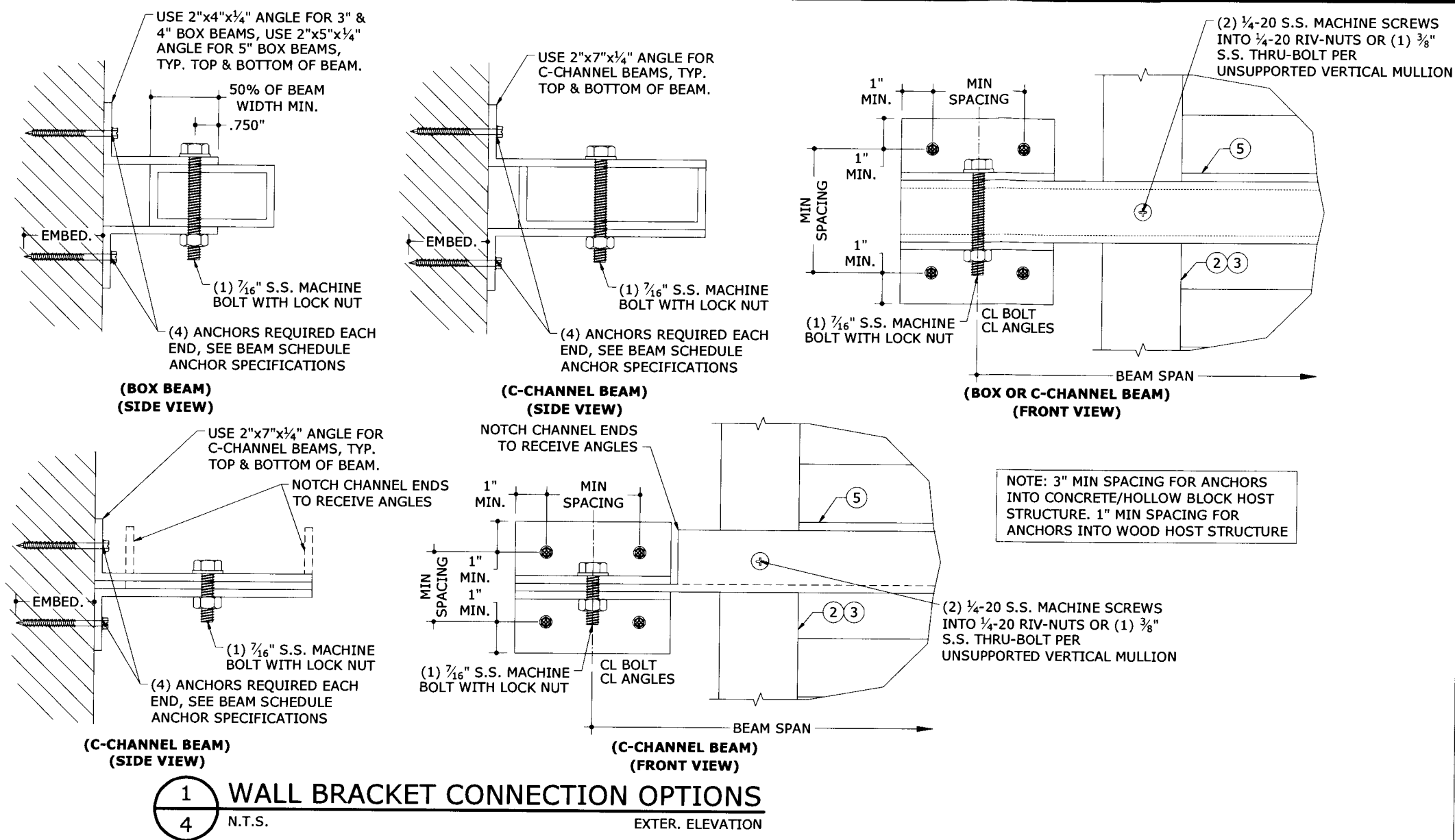
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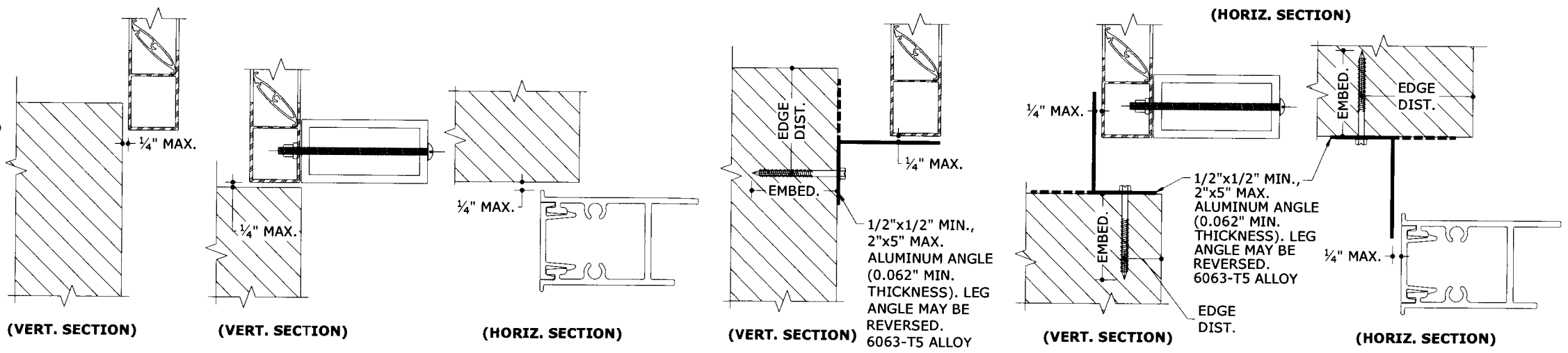
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- SIDE CLOSURE NOTES**
- ANCHORS MAY BE ANY ANCHOR FROM ANCHOR NOTE 1, ON SHEET 5, INSTALLED 3" MAX FROM EACH END, AND 12" O.C. MAX, OR 1/4" ITW TAPCONS WITH 1 1/2" MIN EDGE DISTANCE AND FULL THREAD ENGAGEMENT TO 1/16" MIN PLYWOOD INSTALLED 3" MAX FROM EACH END AND 7" O.C. MAX.
 - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
 - ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
 - MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR NOTE 1 ON SHEET 5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
 - WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.



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ANCHOR NOTE 1 : UNLESS NOTED OTHERWISE BELOW, ANCHORS AT 3" FROM ENDS AND 12" O.C. MAX (CHOOSE ONE FROM BELOW)

- CONNECTION IN CONCRETE:
 - ¼" ITW TAPCON WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.19KSI MIN CONC.)
 - ¼" ITW TAPCON SG WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.30KSI MIN CONC.)
 - ¼" ELCO PANELMATES (MALE/FEMALE) WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.32KSI MIN CONC.)
 - ¼"-20 ALL POINTS SOLID SET ANCHOR WITH 7/8" MIN EMBED. AND 2" MIN EDGE DIST. (3.0KSI MIN CONC.)
 - ¼" MILLENIUM MILLFAST WITH 1 ¾" EMBED AND 2 ½" EDGE DIST. (3.275KSI MIN)
 - #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT W/ 2" EMBED AND 2" EDGE DIST (2 KSI MIN)
- CONNECTION IN HOLLOW CONCRETE BLOCK:
 - ¼" ITW TAPCON WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST., SPACED AT 4" O.C. MAX.
 - ¼" ITW TAPCON SG WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST.
 - ¼" ELCO PANELMATES (MALE/FEMALE) WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST., SPACED AT 6 ½" O.C. MAX.
 - ¼"-20 ALL POINTS SOLID SET ANCHOR WITH 7/8" MIN EMBED. AND 2" MIN EDGE DIST., SPACED AT 8 7/8" O.C. MAX.
 - ¼" MILLENIUM MILLFAST WITH 1 ¾" EMBED AND 2 ½" EDGE DIST., SPACED AT 4 ½" O.C. MAX
 - #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT W/ 1 ¾" EMBED AND 2" EDGE DIST., SPACED AT 7" O.C. MAX
- CONNECTION IN WOOD (G=0.42 MIN):
 - ¼" LAG SCREW WITH 1 ½" MIN EMBED. AND ¾" MIN EDGE DIST.
 - #14 SHEET METAL SCREW WITH 1 ½" MIN EMBED. AND ¾" MIN EDGE DIST.

ANCHOR NOTE 2 : CHOOSE ONE ANCHOR TYPE FROM BELOW, INSTALL QTY SHOWN

- CONNECTION IN CONCRETE:
 - (2) ¼" ITW TAPCON WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.19KSI MIN CONC.)
 - (2) ¼" ITW TAPCON SG WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.30KSI MIN CONC.)
 - (2) ¼" ELCO PANELMATES (MALE/FEMALE) WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.32KSI MIN CONC.)
 - (2) ¼"-20 ALL POINTS SOLID SET ANCHOR WITH 7/8" MIN EMBED. AND 2" MIN EDGE DIST. (3.0KSI MIN CONC.)
 - (2) ¼" MILLENIUM MILLFAST WITH 1 ¾" EMBED AND 2 ½" EDGE DIST. (3.275KSI MIN)
 - (2) #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT W/ 2" EMBED AND 2" EDGE DIST (2 KSI MIN)

NOTE: ALL 69" MAXIMUM SHUTTER SPAN INSTALLATIONS WITH MULTI-PANEL SPANS WITHOUT STORM BARS AT -95PSF REQUIRE A QUANTITY OF (3) ANCHORS FROM THE OPTIONS ABOVE
- CONNECTION IN WOOD (G=0.42 MIN):
 - (3) ¼" ELCO PANELMATE (MALE/FEMALE) WITH 1 7/8" MIN EMBED. AND ¾" MIN EDGE DIST.
 - (3) ¼" ITW TAPCON SG WITH 1 7/8" MIN EMBED. AND ¾" MIN EDGE DIST.
 - (2) ¼" STAINLESS STEEL HANGER BOLT WITH 1 ½" MIN EMBED. AND ¾" MIN EDGE DIST.

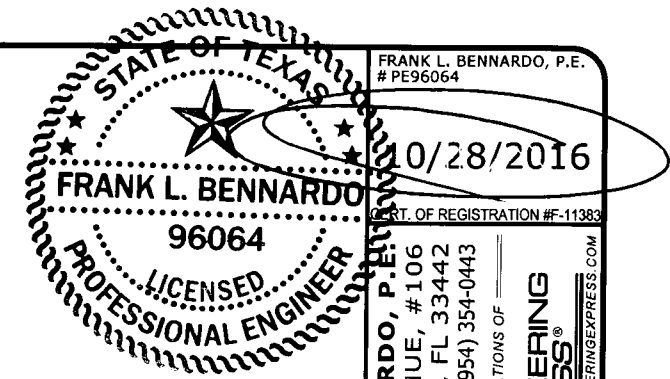
NOTE: ALL 69" MAXIMUM SHUTTER SPAN INSTALLATIONS WITH MULTI-PANEL SPANS WITHOUT STORM BARS AT -95PSF REQUIRE A QUANTITY OF (3) ANCHORS FROM THE OPTIONS ABOVE
- CONNECTION IN HOLLOW CONCRETE BLOCK**:
- SEE ANCHOR SCHEDULE BELOW FOR APPLICABILITY OF ANCHORS TO BE INSTALLED. EACH HOLLOW CONCRETE BLOCK ANCHOR IS CLASSIFIED WITH A LETTER AS SHOWN BELOW ACCOMPANIED BY A NUMBER INDICATING THE QUANTITY OF ANCHORS REQUIRED FOR INSTALLATION. THE DESIGN TABLE ILLUSTRATED BELOW APPLIES TO HOLLOW CONCRETE BLOCK ANCHORS ONLY.
 - TYPE (w) : ¼" ITW TAPCON WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST.
 - TYPE (x) : ¼" ITW TAPCON SG WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST.
 - TYPE (y) : ¼" ELCO PANELMATES (MALE/FEMALE) WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST.
 - TYPE (z) : ¼"-20 ALL POINTS SOLID SET ANCHOR WITH 7/8" MIN EMBED. AND 2" MIN EDGE DIST.
 - TYPE (u) : ¼" MILLENIUM MILLFAST WITH 1 ¾" EMBED AND 2 ½" EDGE DIST.
 - TYPE (v) : #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT W/ 1 ¾" EMBED AND 2" EDGE DIST

MAX (-) PRESSURE	69" MAXIMUM SHUTTER SPAN			81-5/8" MAXIMUM SHUTTER SPAN			96-3/4" MAXIMUM SHUTTER SPAN		
	SINGLE PANEL SPAN	MULTI-PANEL SPAN		SINGLE PANEL	MULTI-PANEL SPAN		SINGLE PANEL	MULTI-PANEL SPAN	
		W/O BAR	W/BAR		W/O BAR	W/BAR		W/O BAR	W/BAR
-50 PSF	(w3) (x2) (y2) (z2) (u3) (v2)	(x2) (y3) (z2) (v2)	(w2) (x2) (y2) (z2) (u2) (v2)	(x2) (y2) (z2) (u3) (v2)	(x2) (y3) (z2) (v3)	(w3) (x2) (y2) (z2) (u2) (v2)	(w3) (x2) (y2) (z2) (u3) (v2)	(x2) (z3) (v3)	(w3) (x2) (y2) (z2) (u3) (v2)
-60 PSF	(x2) (y3) (z2) (u3) (v2)	(x2) (y3) (z2) (v3)	(w3) (x2) (y2) (z2) (u2) (v2)	(x2) (y3) (z2) (v3)	N/A	(w3) (x2) (y2) (z2) (u3) (v2)	(w3) (x2) (y2) (z2) (u3) (v2)	N/A	(w3) (x2) (y2) (z2) (u3) (v2)
-70 PSF	(x2) (y3) (z2) (v3)	(x2) (z3) (v3)	(w3) (x2) (y2) (z2) (u3) (v2)	(x2) (y3) (z3) (v3)	N/A	(w3) (x2) (y2) (z2) (u3) (v2)	(x2) (y3) (z2) (v2)	N/A	(x2) (y3) (z2) (v2)
-95 PSF	(x2) (z3) (v3)	(x3)	(x2) (y3) (z2) (u3) (v2)	(x3) (z3)	N/A	(x2) (y3) (z2) (v3)	(x2) (y3) (z3) (v3)	N/A	(x2) (y3) (z3) (v3)

**HOLLOW BLOCK ANCHOR SCHEDULE KEY: w3 = ANCHOR TYPE "w" WITH "3" ANCHORS.

ANCHOR NOTE 3 : CHOOSE ONE ANCHOR TYPE FROM BELOW, INSTALL QTY SHOWN

- CONNECTION IN CONCRETE:
 - (1) ¼" ITW TAPCON WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.19KSI MIN CONC.)
 - (1) ¼" ITW TAPCON SG WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST. (3.30KSI MIN CONC.)
 - (1) ¼"-20 ALL POINTS SOLID SET ANCHOR WITH 7/8" MIN EMBED. AND 3" MIN EDGE DIST. (3.0KSI MIN CONC.)
 - (1) ¼" MILLENIUM MILLFAST WITH 1 ¾" EMBED AND 2 ½" EDGE DIST. (3.275KSI MIN)
 - (1) #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT W/ 2" EMBED AND 2" EDGE DIST (2 KSI MIN)
- CONNECTION IN HOLLOW CONCRETE BLOCK:
 - (2) ¼" ELCO ULTRACONS WITH 1 ¾" MIN EMBED. AND 2 ½" MIN EDGE DIST.
 - (2) ¼"-20 ALL POINTS SOLID SET ANCHOR WITH 7/8" MIN EMBED. AND 3" MIN EDGE DIST.
 - (2) ¼" MILLENIUM MILLFAST WITH 1 ¾" EMBED AND 2 ½" EDGE DIST. (3.275KSI MIN)
 - (2) #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT W/ 2" EMBED AND 2" EDGE DIST (2 KSI MIN)
- CONNECTION IN WOOD (G=0.42 MIN):
 - (1) ¼" LAG SCREW WITH 1 ½" MIN EMBED. AND ¾" MIN EDGE DIST.
 - (1) #14 SHEET METAL SCREW WITH 1 ½" MIN EMBED. AND ¾" MIN EDGE DIST.



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