

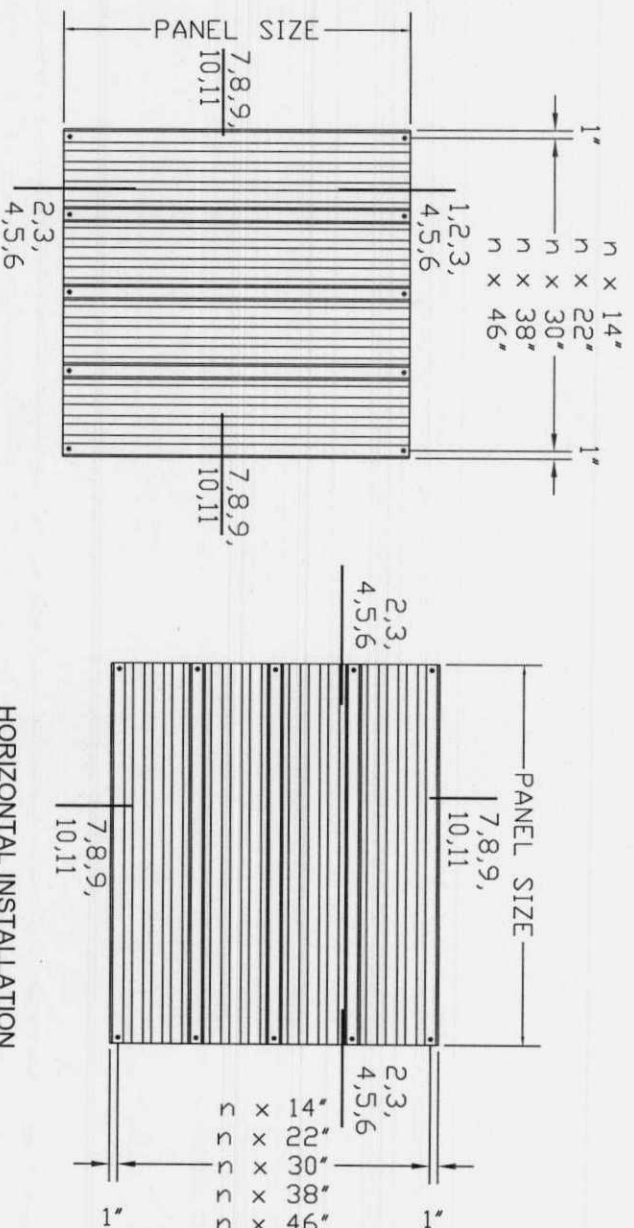
GENERAL NOTES: (FLORIDA BUILDING CODE 2010 - non HVHZ)

- 1- DEFINITION: THIS PRODUCT IS A HURRICANE PROTECTION DEVICE; DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 2- POSTING: A PERMANENT LABEL SHALL BE PROVIDED AS PER FBC 2010 SECTION 1715.8 THE LABEL MAY BE EMBOSSED OR PRINTED SPACED NOT MORE THAN EVERY THREE (3) LINEAL FEET ON EACH PANEL. THE LABEL SHALL BE APPLIED BY THE HOLDER OF THE PRODUCT APPROVAL AND SHALL FACE THE EXTERIOR OR OUTSIDE.
- 3- MATERIAL:
 - 3.1 - STORM PANELS SHALL BE MIN. 0.073" POLYCARBONATE CONFORMING TO ASTM D-638 WITH A MINIMUM Fy= 9.36 KSI.
 - 3.2 - ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 OR AS NOTED.
- 4- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.
- 5- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-10 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH SHUTTER COMPONENT TO BE USED. THE DESIGN PRESSURES ARE PERMITTED TO BE MULTIPLIED BY 0.6
- 6- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 6.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 6.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 6.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 7- PANELS CAN BE OVERLAPPED TO CREATE A 1/2 PANEL INSTALLATION
- 8- LIMITATIONS: PRODUCT IS NOT APPLICABLE:
 - 8.1 IN HIGH VELOCITY HURRICANE ZONES (HVHZ), BROWARD & MIAMI-DADE COUNTIES AS DEFINED IN THE FLORIDA BUILDING CODE.
 - 8.2 WITHOUT 12-1/8" GLASS SEPARATION IN ESSENTIAL FACILITIES AS DEFINED IN ASCE 7-10
 - 8.3 WITHOUT 12-1/8" GLASS SEPARATION IN WIND ZONE 4 WHERE THE SPECIFYING AUTHORITY HAS SPECIFIED OPTIONAL ADDITIONAL PASS/FAIL CRITERIA IN ACCORDANCE WITH ASTM E1996-09 SECTION 7.2. WIND ZONE 4 AS DEFINED IN ASTM E 1996 WITH MODIFICATION BY THE FBC SECTION 1609.1.2.4 (LOCATIONS WITH BASIC WIND SPEED GREATER THAN 160 MPH)
 - 8.4 WITHOUT 8-3/8" GLASS SEPARATION FOR PANELS SMALLER THAN 14"
- 9- IN "NON HVHZ" PRODUCT MEETS THE CLASSIFICATION OF ASTM E1996 FOR "NON POROUS" PROTECTIVE DEVICE. THEREFORE SEPARATION FROM GLAZING AREAS ARE NOT REQUIRED WITH EXCEPTIONS AS PER 8.2, 8.3 AND 8.4 ABOVE.

USER INSTRUCTION:

1. OBTAIN PROJECT WIND LOAD PRESSURES AS PER GENERAL NOTES 5.
2. COMPARE PANEL HEIGHT X ALLOWABLE PRESSURE (TABLE 1) WITH PROJECT WIND LOAD PRESSURES. PROJECT PRESSURE MUST BE EQUAL OR LESS THAN PANEL ALLOWABLE PRESSURE.
3. SELECT ANCHOR SPACING (TABLE 3) FUNCTION OF TYPE OF MOUNT, PRESSURE AND TYPE OF ANCHOR (TABLE 2).
4. SELECT TYPE OF SIDE CLOSURE AS PER SHEET 6 OF 8.

TYPICAL ELEVATIONS
PANELS CAN BE INSTALLED VERTICALLY OR HORIZONTALLY USING APPLICABLE ANCHORING DETAILS



VERTICAL INSTALLATION

HORIZONTAL INSTALLATION

120" MAXIMUM PANEL SIZE
n: NUMBER OF PANEL
PANELS AVAILABLE WIDTH
16", 24", 32", 40" AND 48"

CODE AND STANDARD COMPLIANCE:
FLORIDA BUILDING CODE 2010 (non HVHZ)
ASTM E330, E1886, E1996 (LEVEL D MISSILE)

TABLE 1
ALLOWABLE DESIGNED PRESSURES:

PANEL SIZE (INCHES)	PD ± (PSF)
120	45
100	62
80	87
60	132

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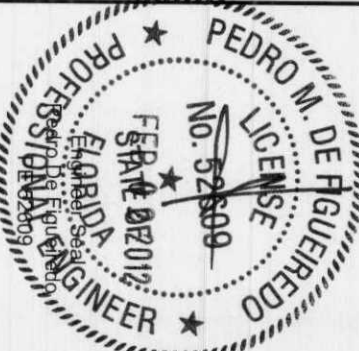
SHEET	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS & DESIGN PRESSURES (TABLE 1)
2	PANEL DETAILS AND LAY-OUTS
3	MOUNT TYPES 1, 2 & 3 DETAILS
4	MOUNT TYPES 4, 5, 5A & 6 DETAILS
5	MOUNT TYPES SE1 AND SE2 DETAILS - ESCAPE PANELS
6	SIDE CLOSURES 7, 8, 9, 10, 11 DETAILS
7	ANCHOR SCHEDULE TABLE 2 AND ANCHOR SELECTION TABLE 3
8	COMPONENTS DETAILS

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PRODUCT:
Polycarbonate Hurricane Shutter Panel
LARGE & SMALL MISSILE IMPACT RATED

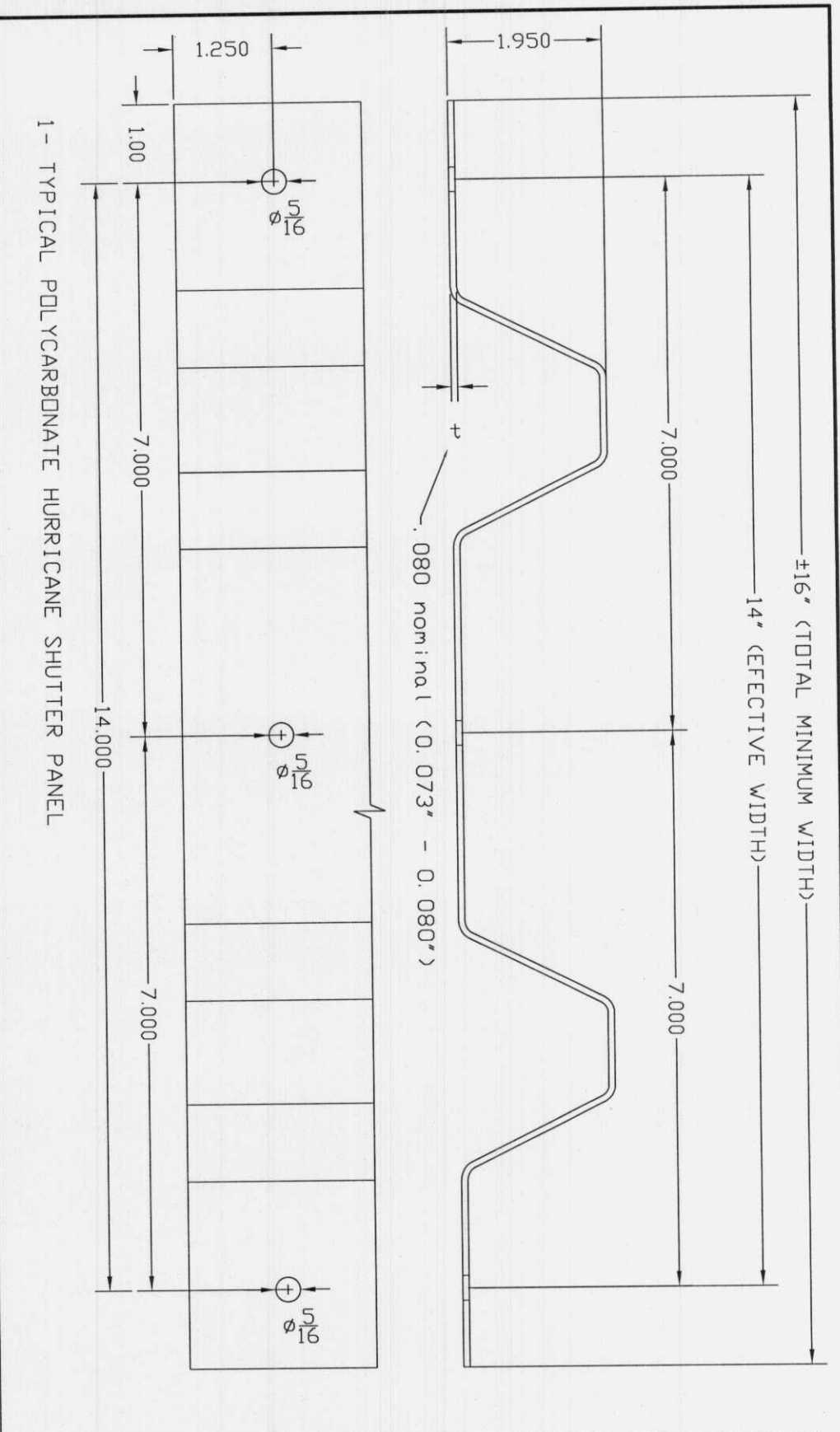
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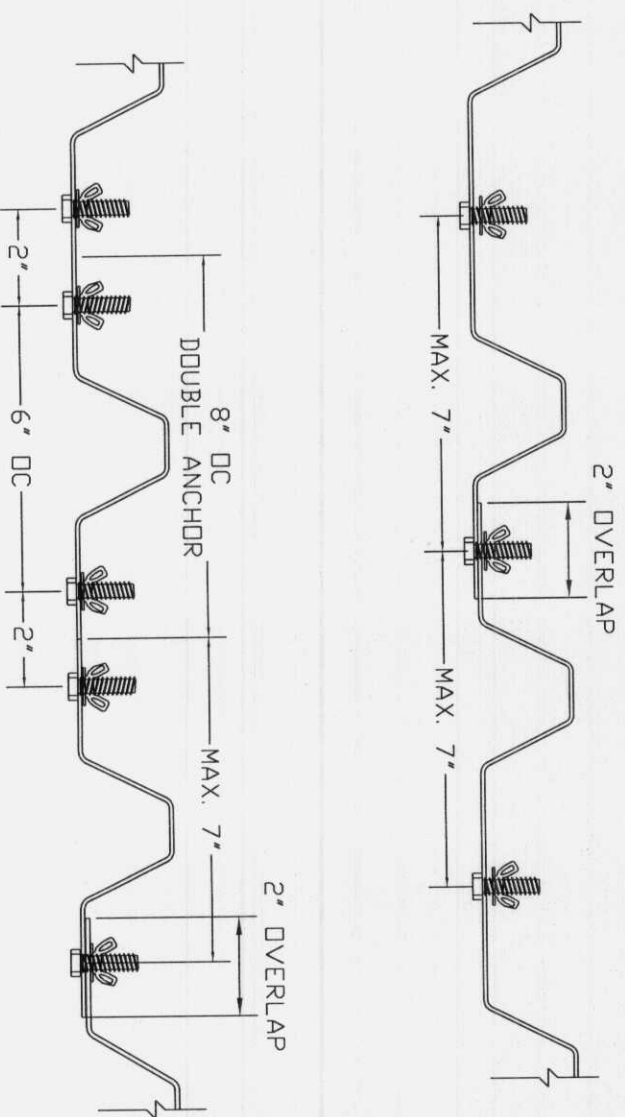
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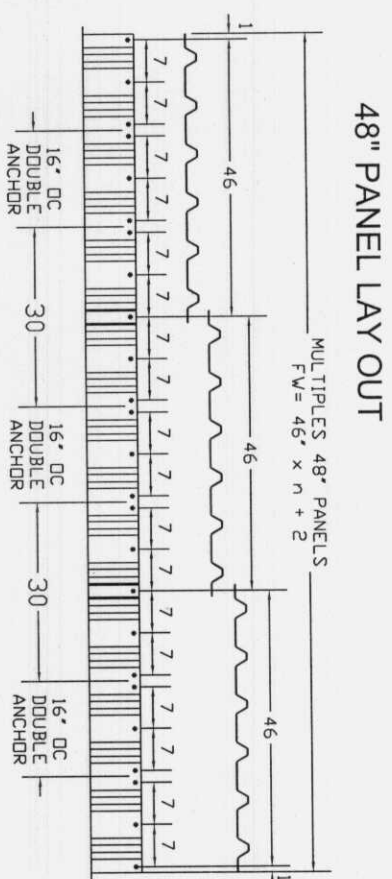
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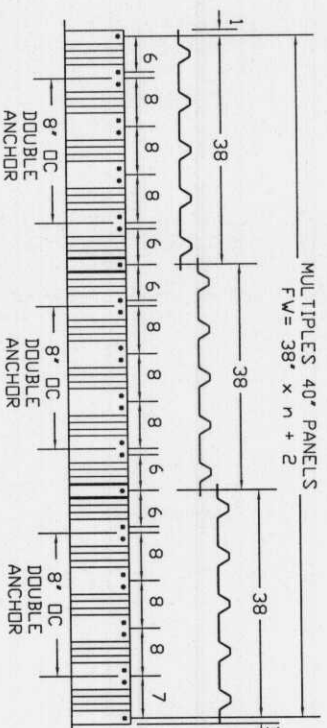
1 - TYPICAL POLYCARBONATE HURRICANE SHUTTER PANEL



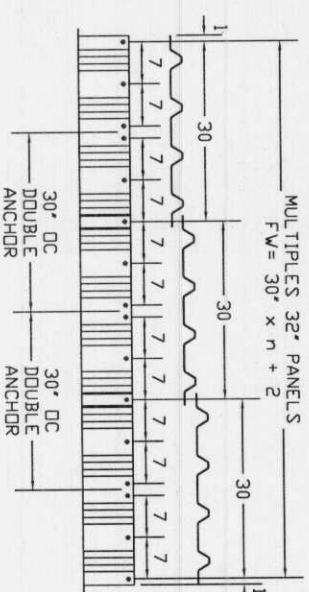
2' OVERLAP



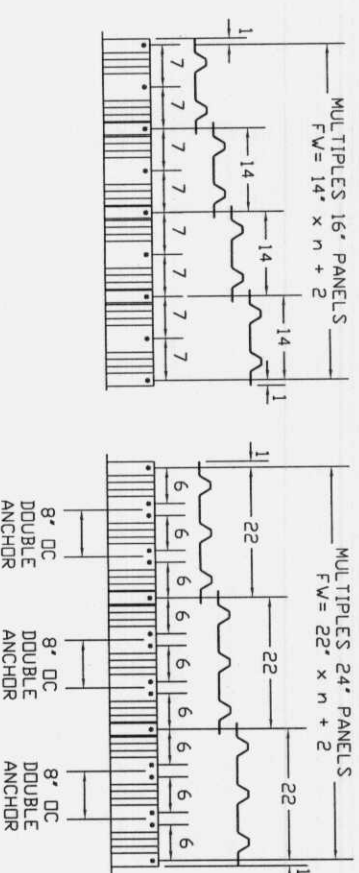
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40\"/>



32\"/>



16\"/>

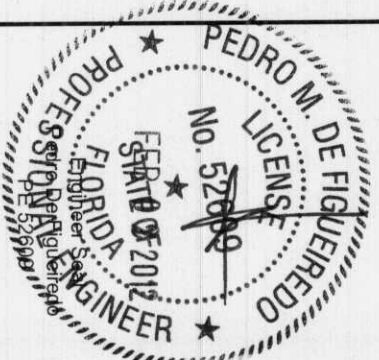
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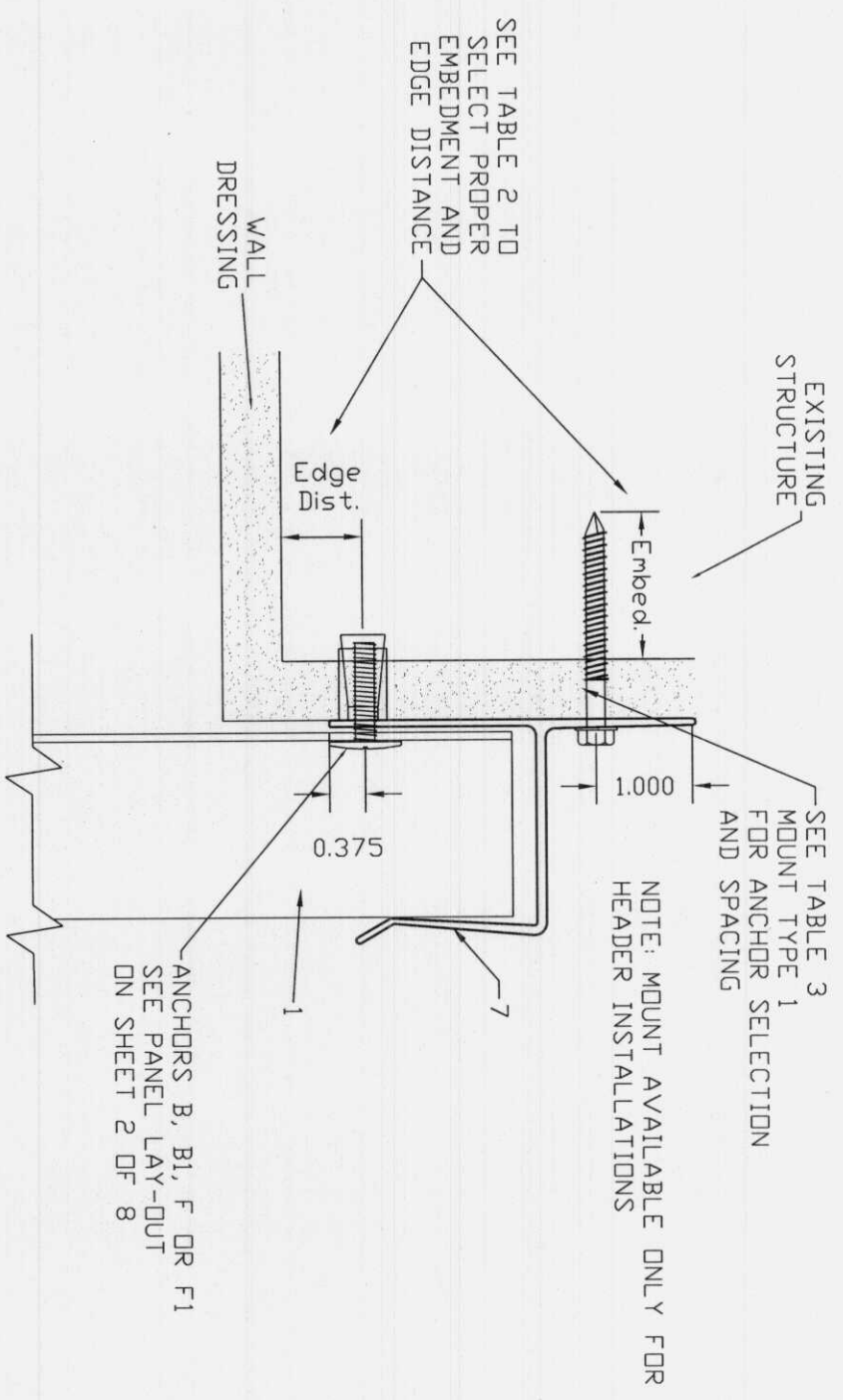
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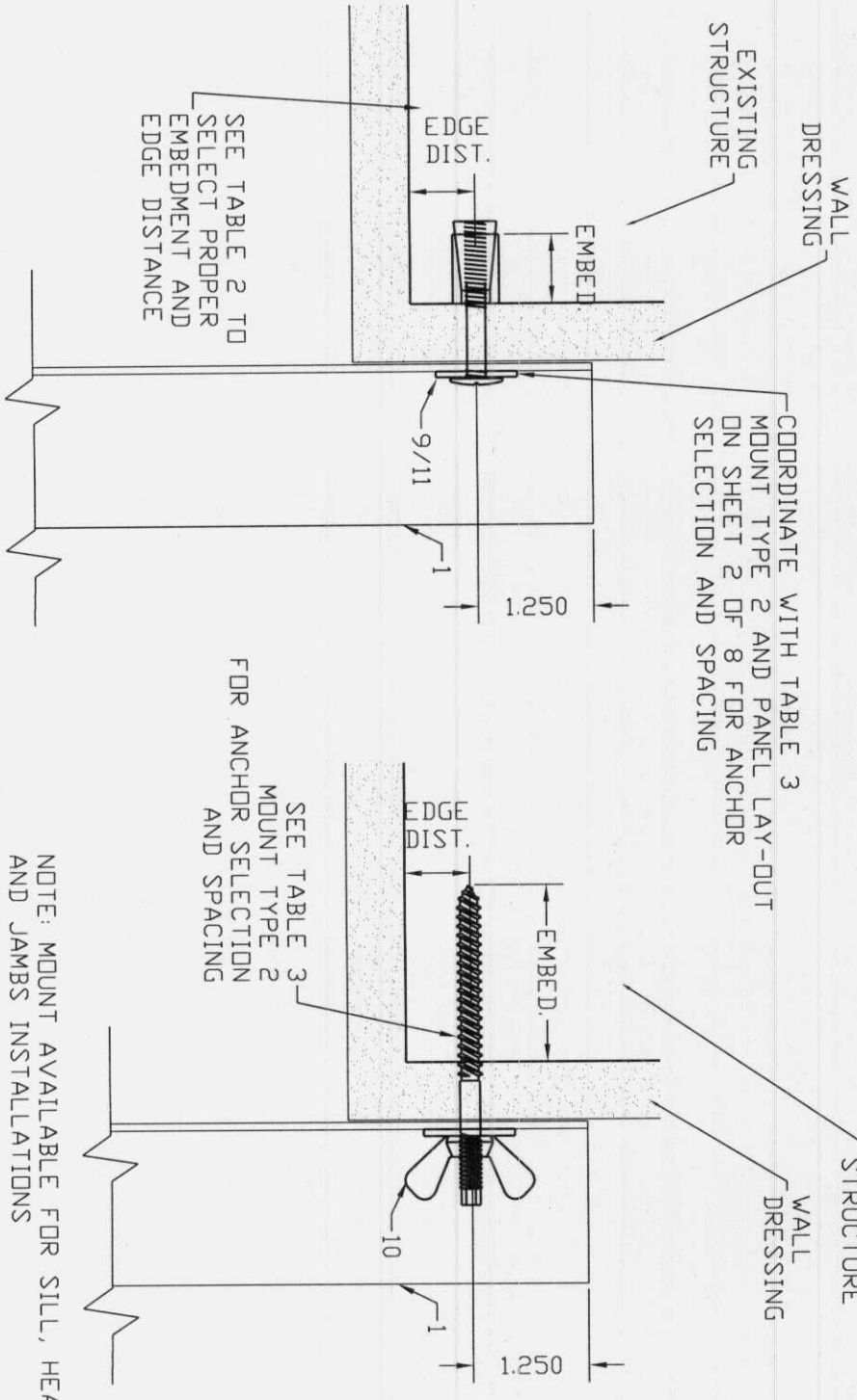
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MOUNT TYPE 1

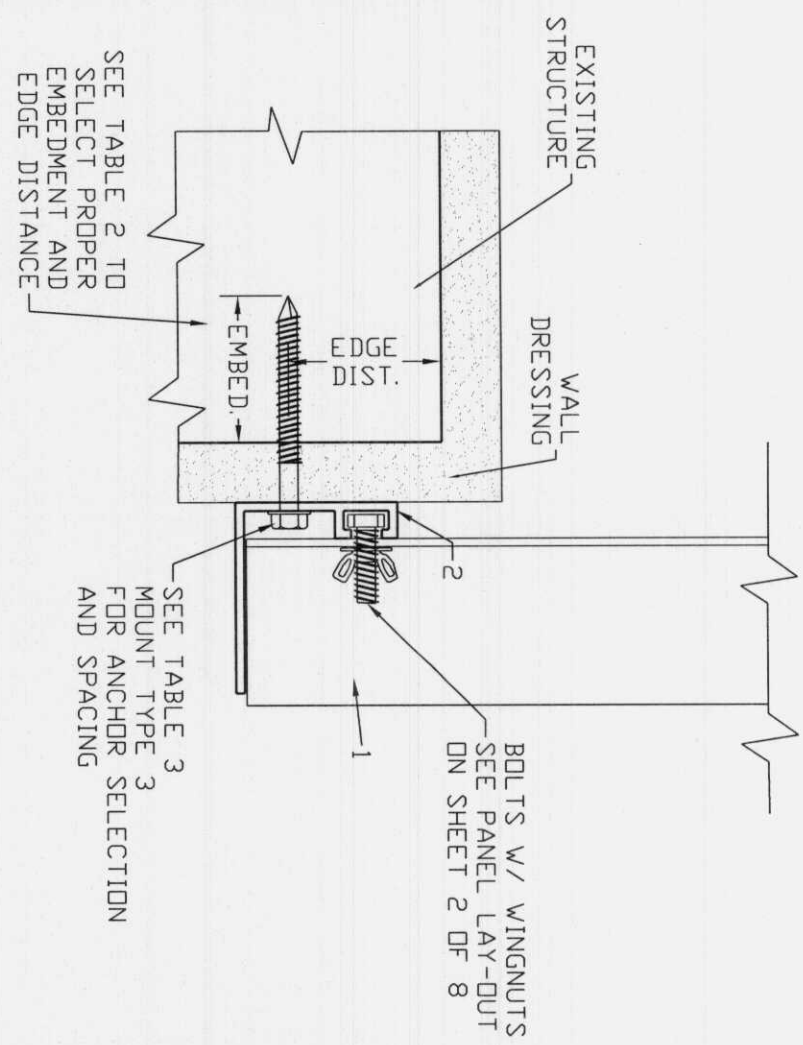


MOUNT TYPE 2

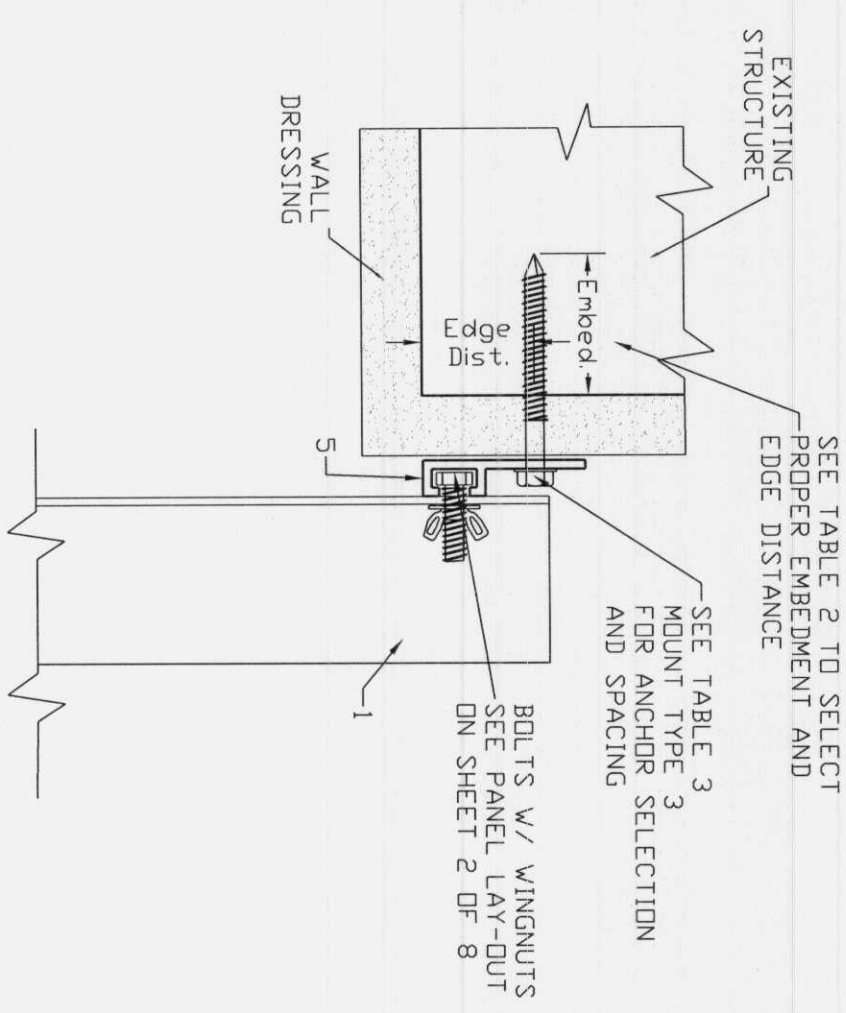


NOTE: MOUNT AVAILABLE FOR SILL, HEADER AND JAMBS INSTALLATIONS

MOUNT TYPE 3



NOTE: MOUNT AVAILABLE FOR SILL, HEADER AND JAMBS INSTALLATIONS

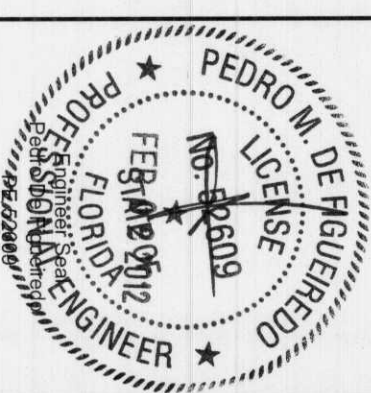


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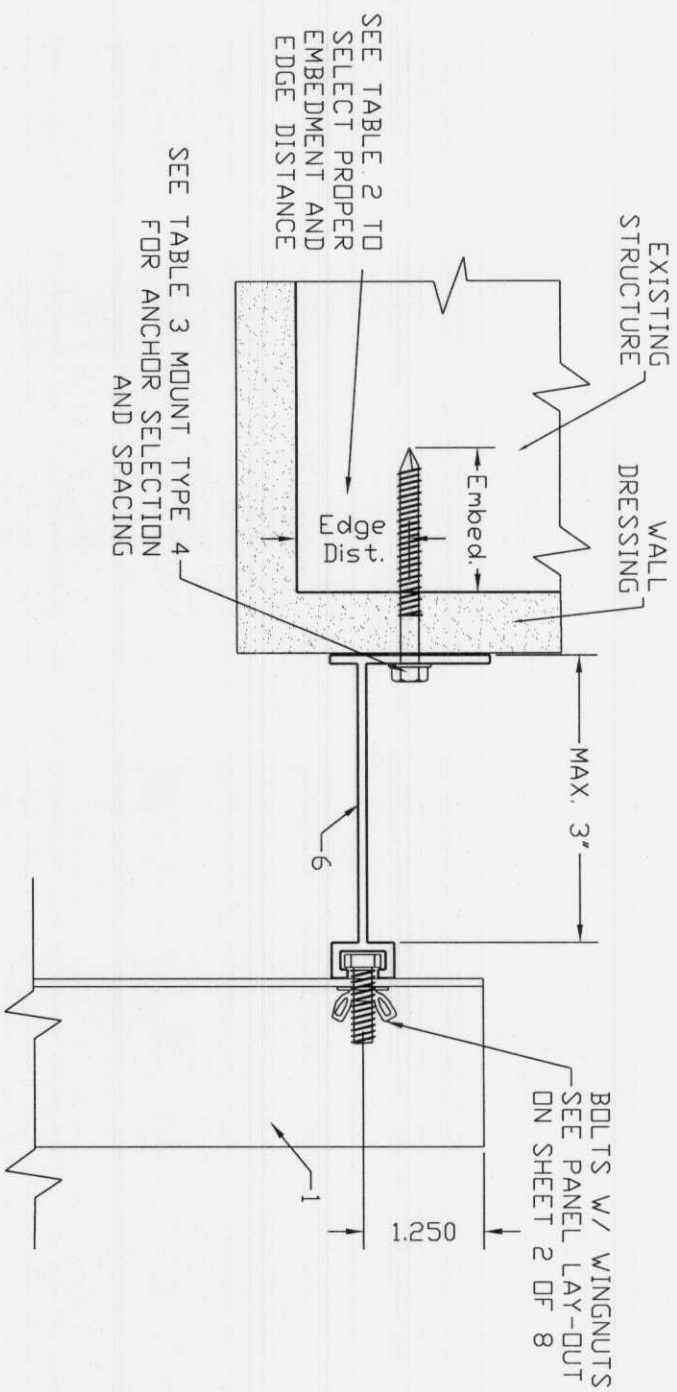
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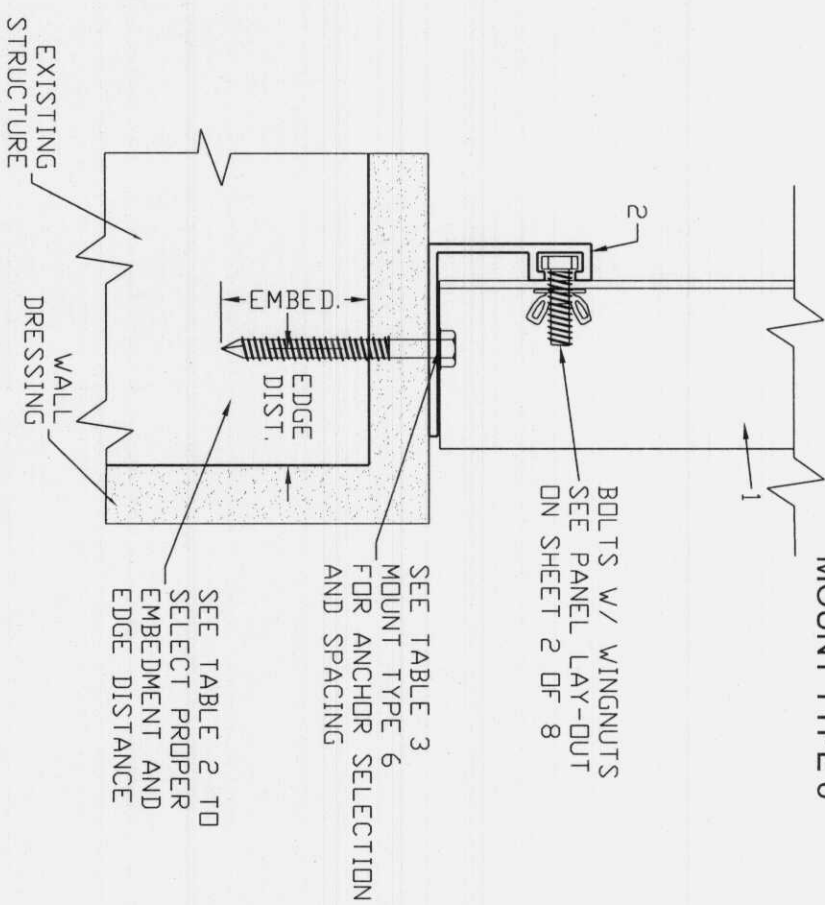
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MOUNT TYPE 4



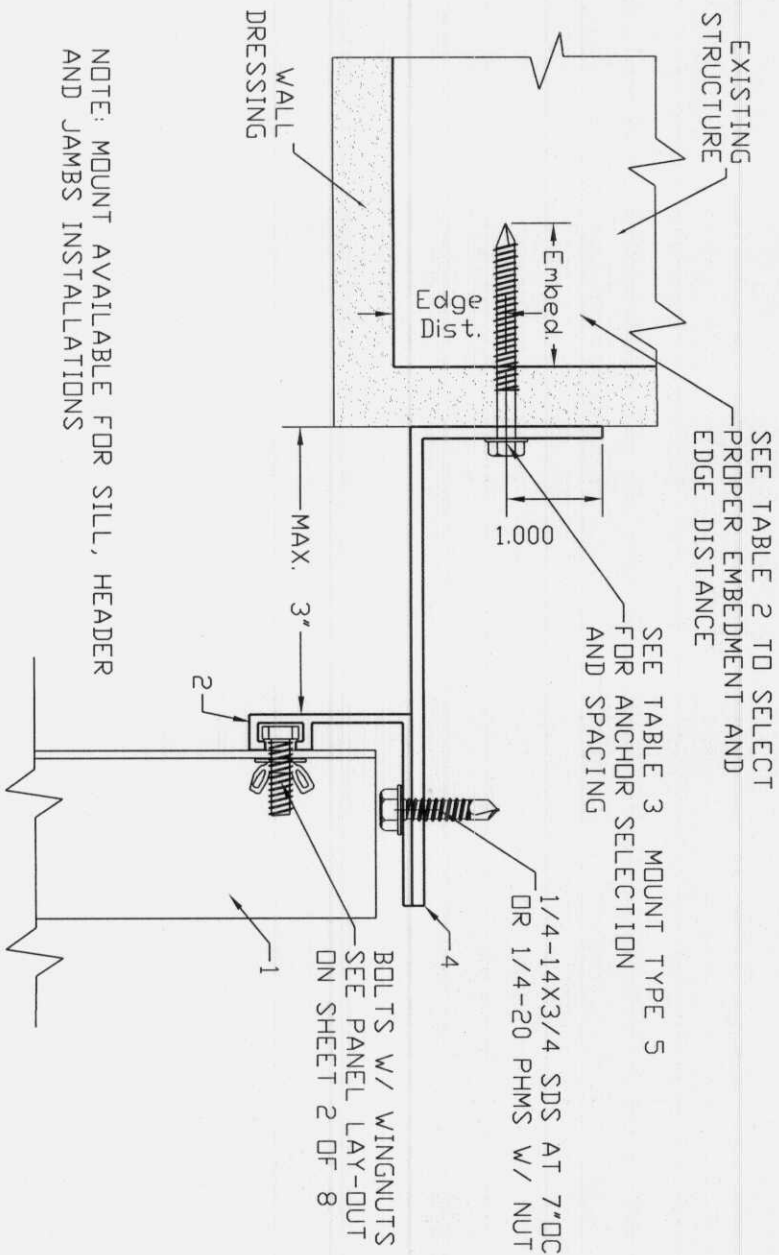
NOTE: MOUNT AVAILABLE FOR SILL, HEADER AND JAMBS INSTALLATIONS

MOUNT TYPE 6



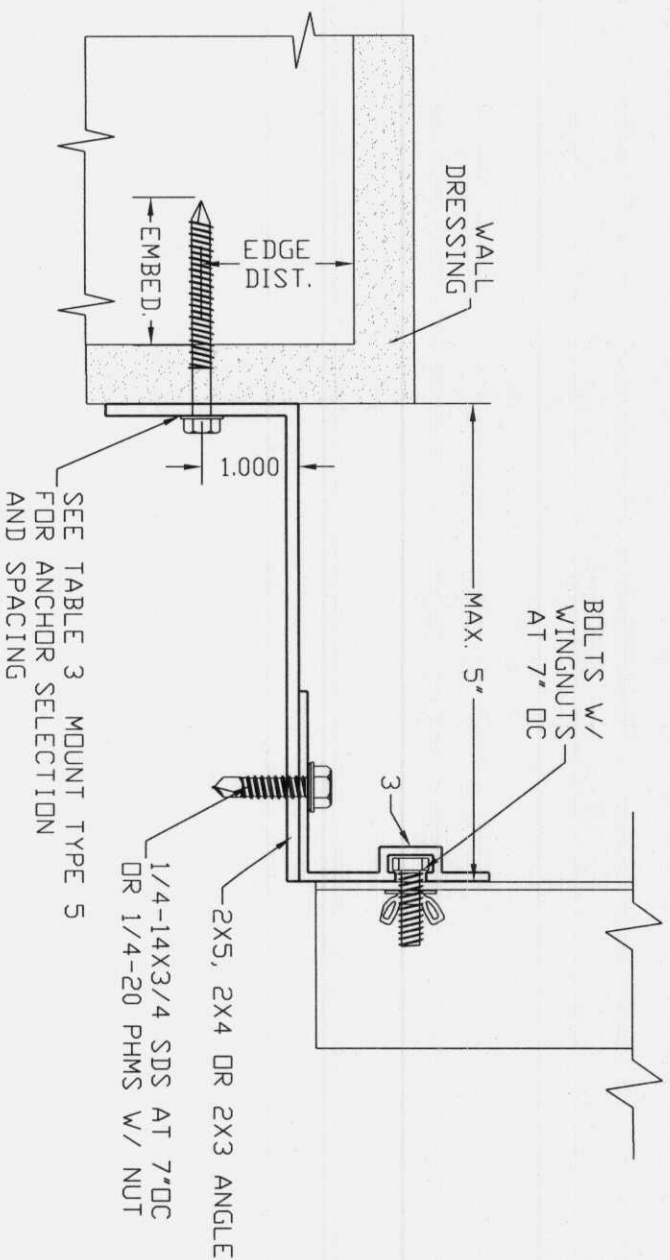
NOTE: MOUNT AVAILABLE FOR SILL, HEADER AND JAMBS INSTALLATIONS

MOUNT TYPE 5



NOTE: MOUNT AVAILABLE FOR SILL, HEADER AND JAMBS INSTALLATIONS

MOUNT TYPE 5A (REVERSE)



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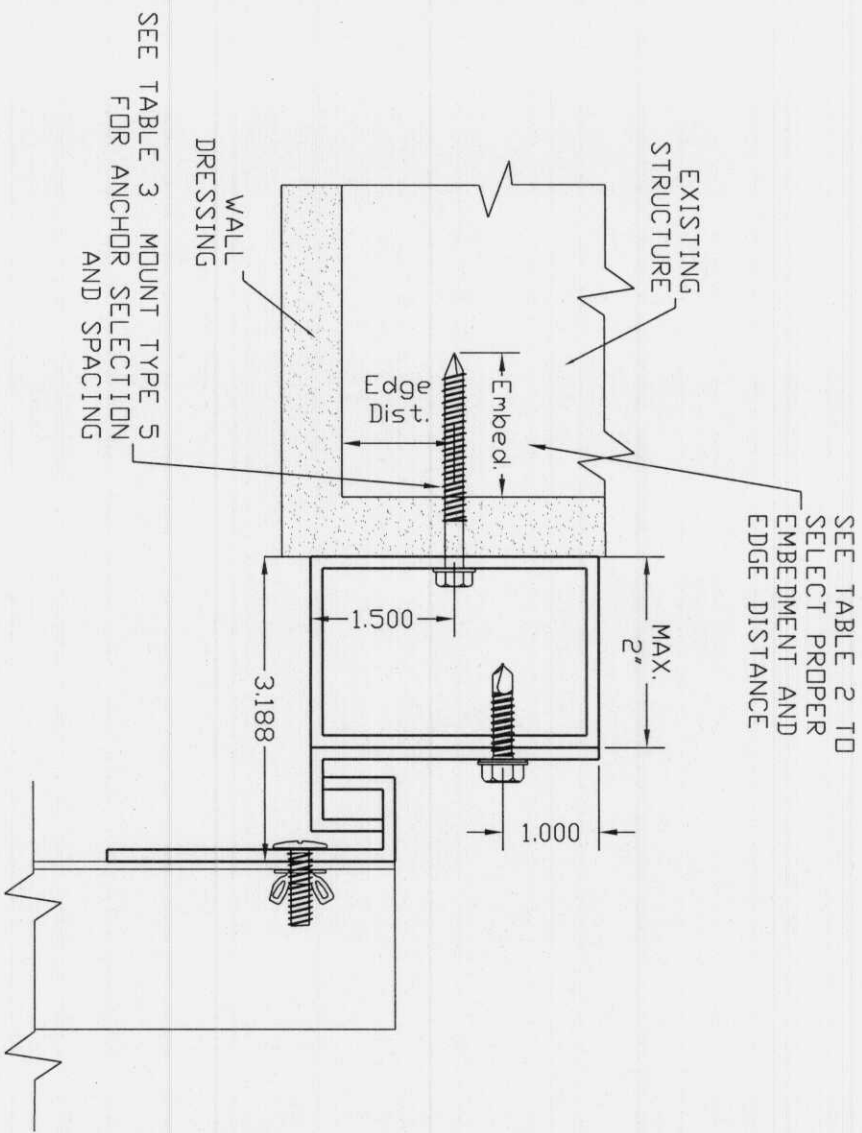
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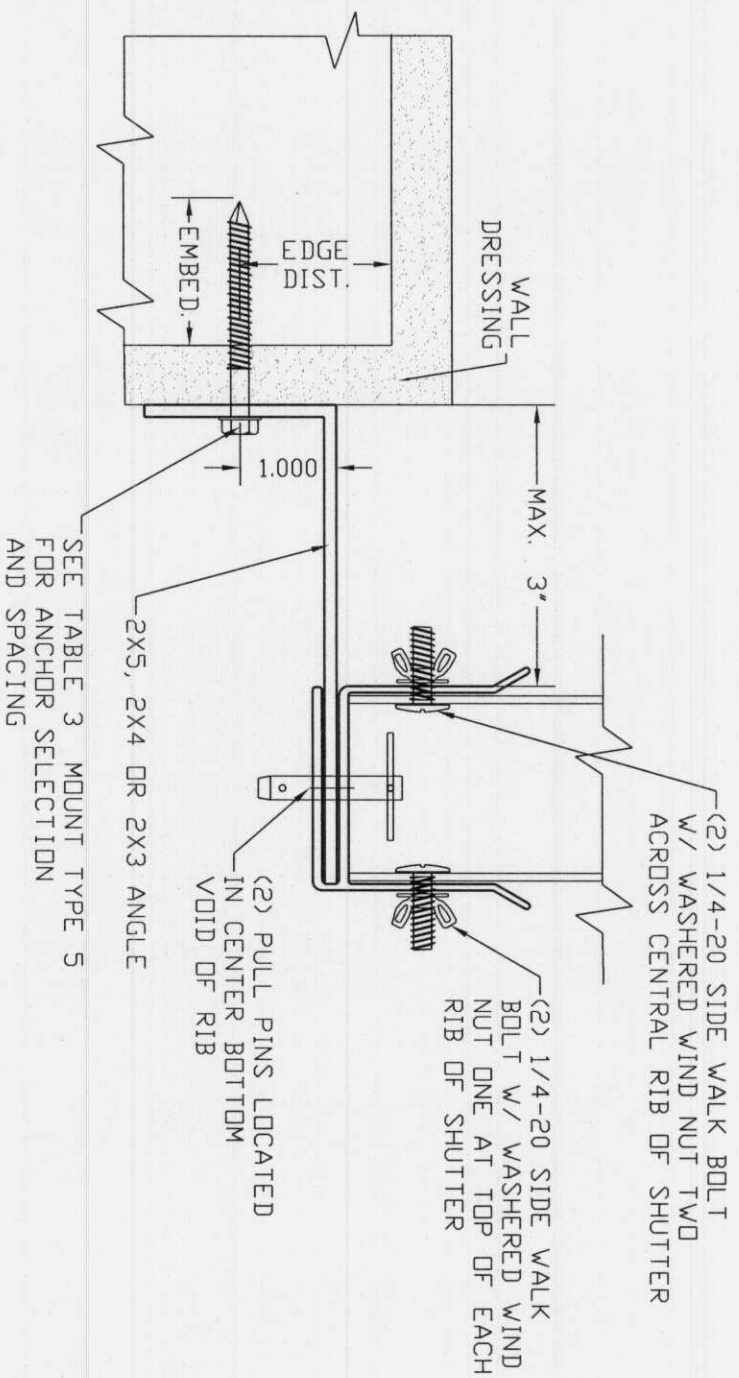
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ESCAPE PANELS DETAILS

MOUNT TYPE 5E1



MOUNT TYPE 5E2



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SEE TABLE 3 FOR ANCHOR SELECTION AND SPACING

SEE TABLE 2 TO SELECT PROPER EMBEDMENT AND EDGE DISTANCE

SEE TABLE 3 FOR ANCHOR SELECTION AND SPACING

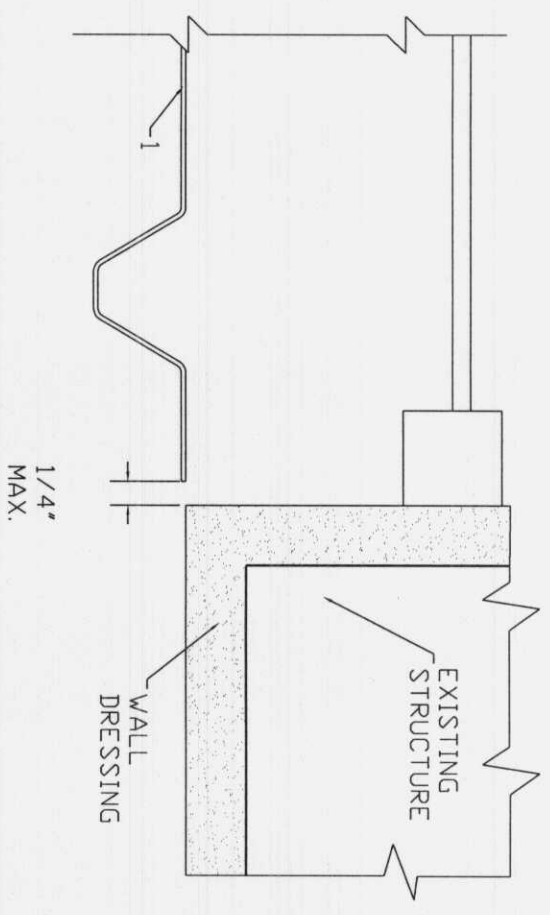
(2) 1/4-20 SIDE WALK BOLT W/ WASHED WIND NUT TWO ACROSS CENTRAL RIB OF SHUTTER

(2) 1/4-20 SIDE WALK BOLT W/ WASHED WIND NUT ONE AT TOP OF EACH RIB OF SHUTTER

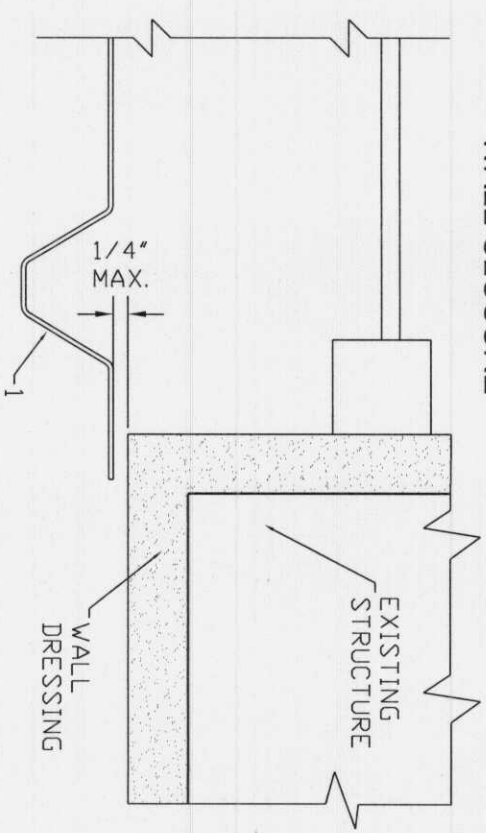
(2) PULL PINS LOCATED IN CENTER BOTTOM VOID OF RIB

2X5, 2X4 OR 2X3 ANGLE

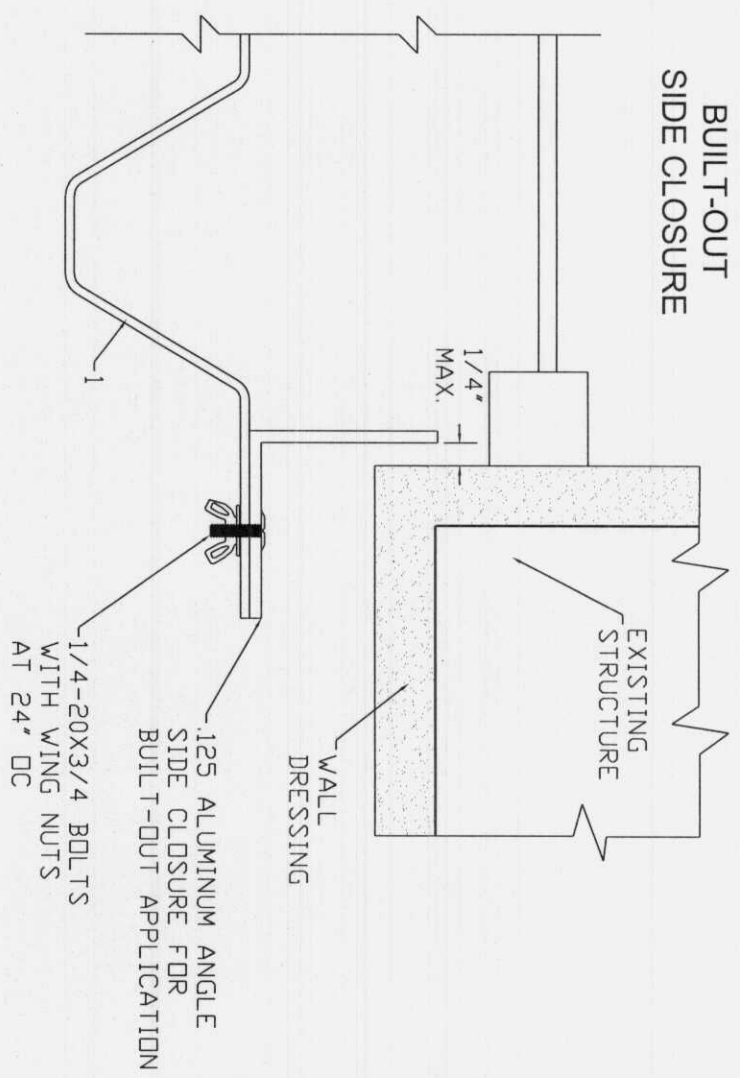
DETAIL 8
INSET CLOSURE



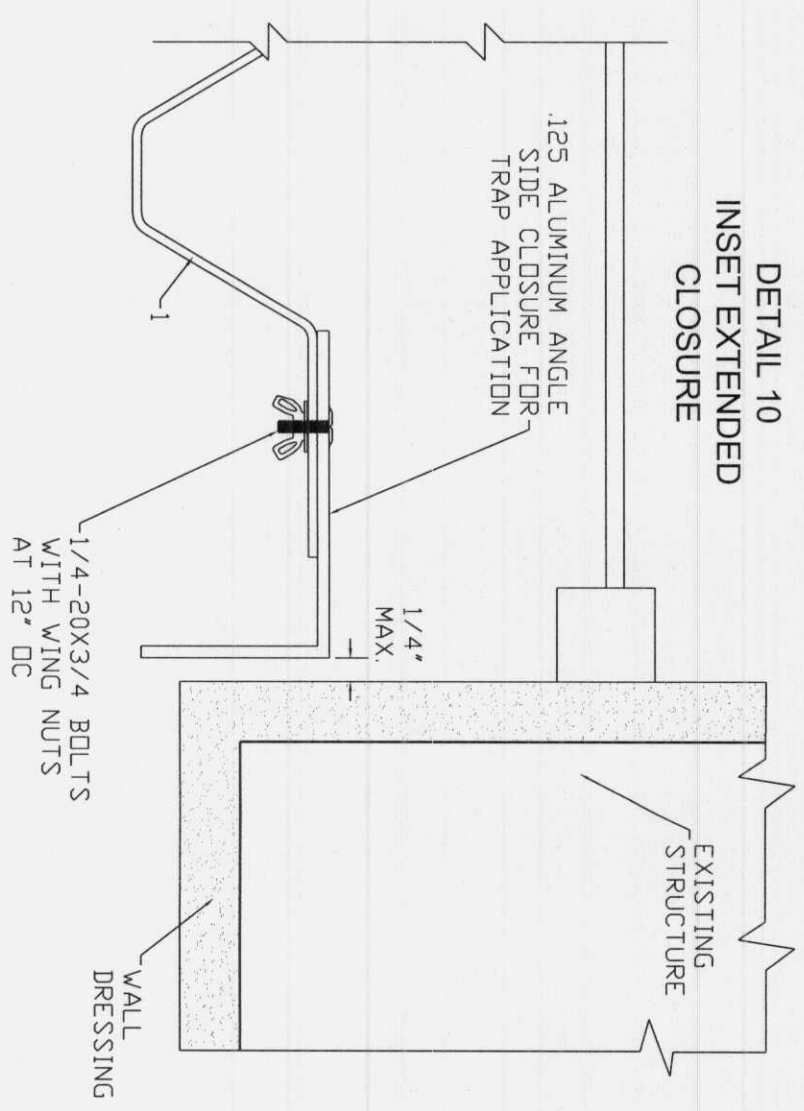
DETAIL 7
WALL CLOSURE



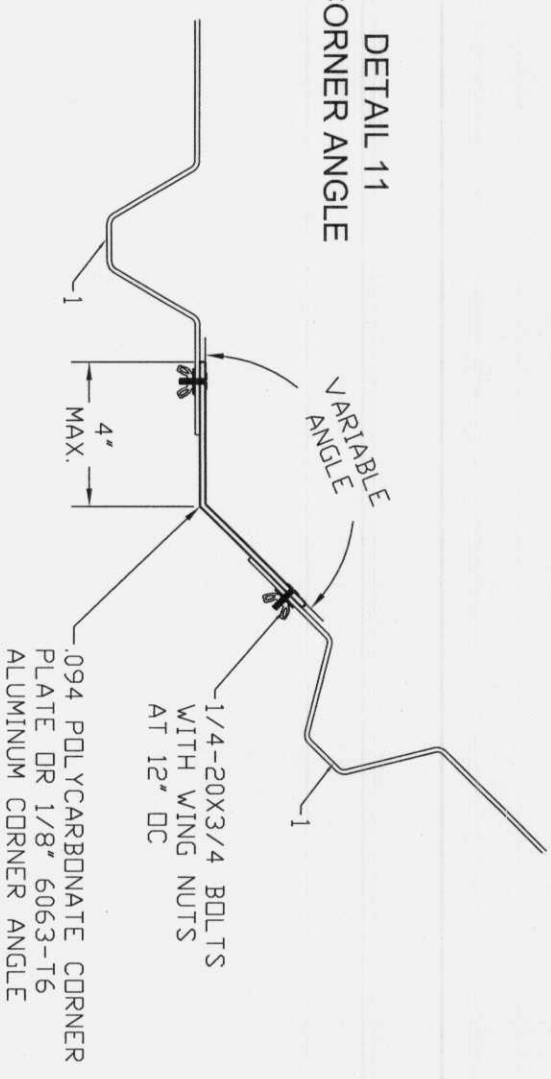
DETAIL 9
BUILT-OUT
SIDE CLOSURE



DETAIL 10
INSET EXTENDED
CLOSURE



DETAIL 11
CORNER ANGLE

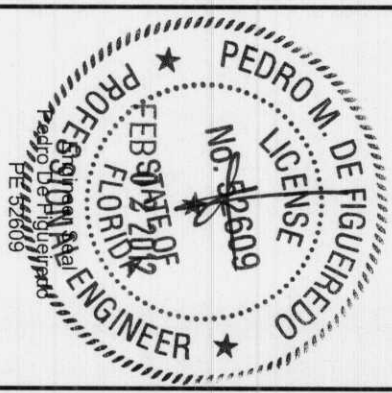


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PRODUCT:
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Hurricane Shutter
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LARGE & SMALL MISSILE
IMPACT RATED

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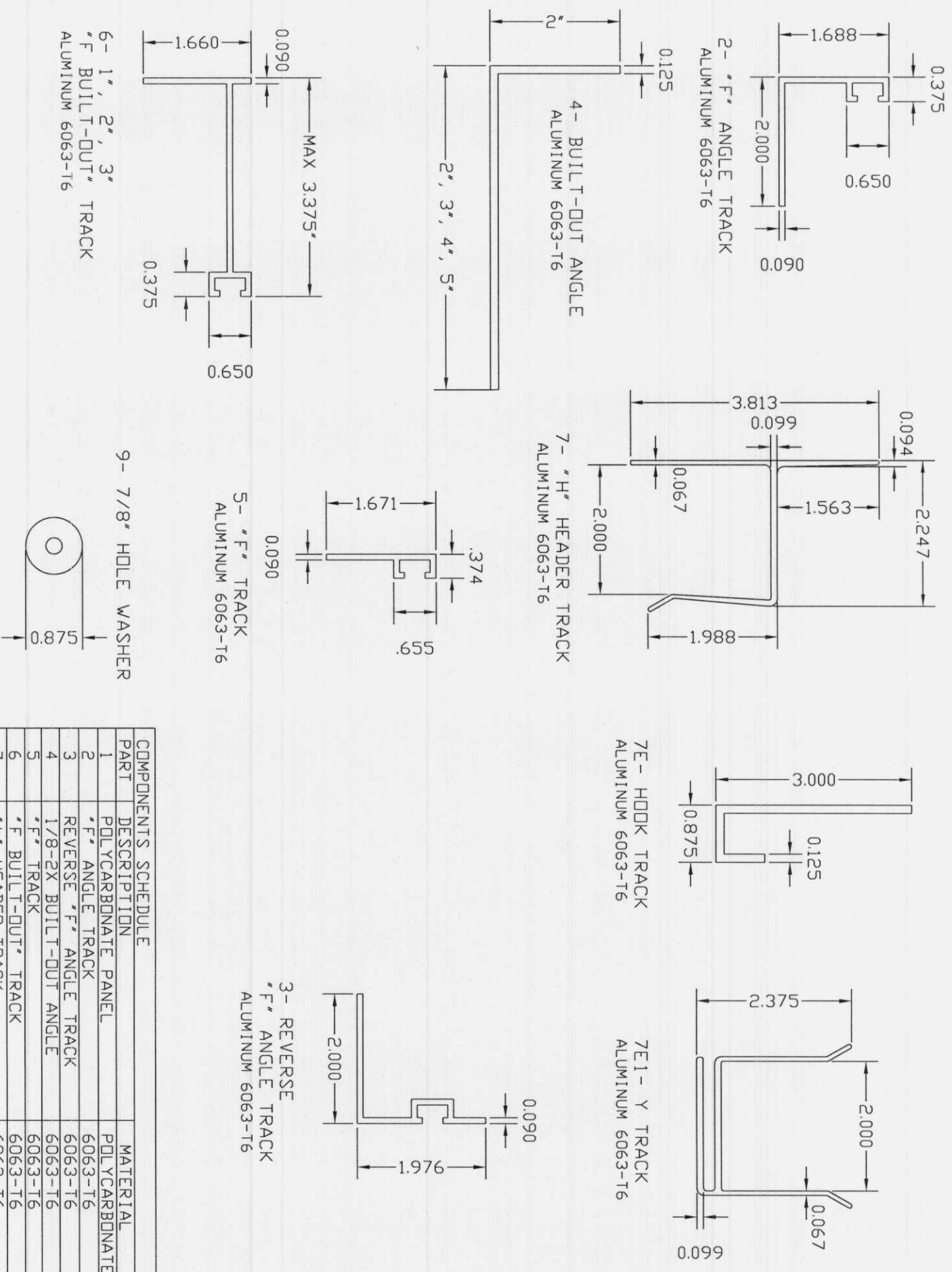
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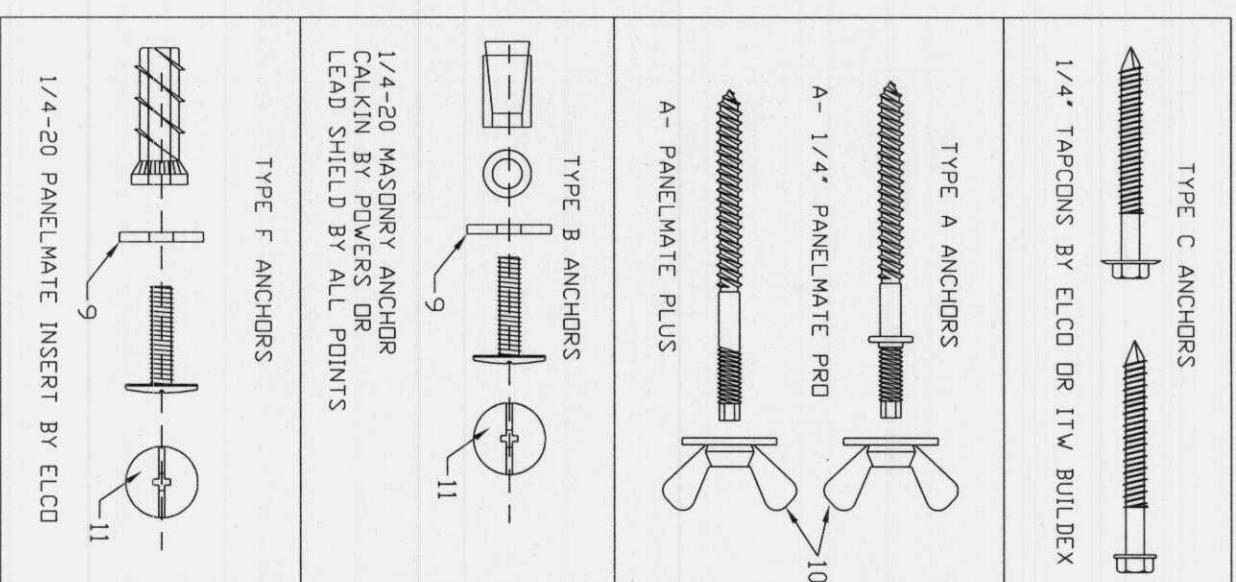
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COMPONENTS DETAILS



COMPONENTS SCHEDULE		
PART	DESCRIPTION	MATERIAL
1	POLYCARBONATE PANEL	POLYCARBONATE
2	"F" ANGLE TRACK	6063-T6
3	REVERSE "F" ANGLE TRACK	6063-T6
4	1/8-2X BUILT-OUT ANGLE	6063-T6
5	"F" TRACK	6063-T6
6	"F" BUILT-OUT" TRACK	6063-T6
7	"h" HEADER TRACK	6063-T6
7E	HOOK TRACK	6063-T6
7E1	Y TRACK	6063-T6
8	1/4-14X3/4 SDS	GRADE 5 STEEL
9	7/8" WASHER	STAINLESS STEEL
10	1/4-20 WASHERED WINGNUT	ZINC ALLOY
11	1/4-20 SS SIDEWALK SCREWS	STAINLESS STEEL
12	1/4-20 SS HH MACHINE SCREWS	STAINLESS STEEL
13	1/4-20 SS HH NUT	STAINLESS STEEL
14	PULL PIN SS 1/4X 1 1/2"	STAINLESS STEEL



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