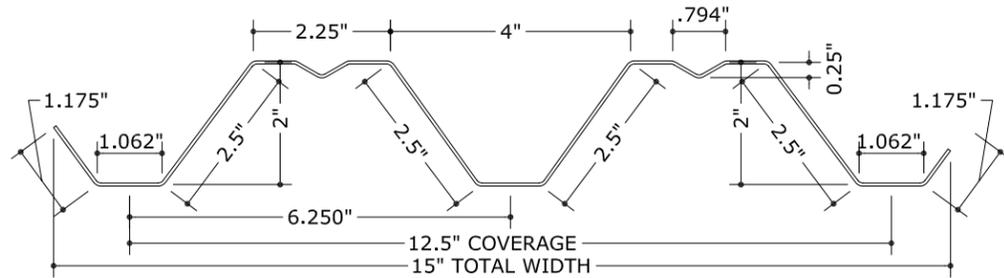


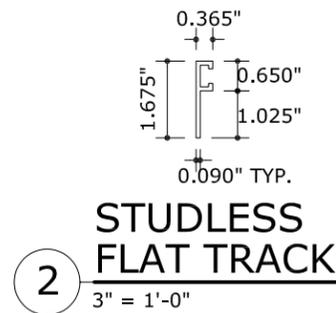
# 26ga GALV. STEEL STORM PANEL

FRANK L. BENNARDO, P.E.  
#96064

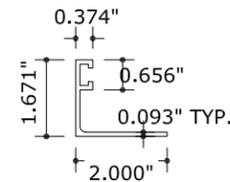
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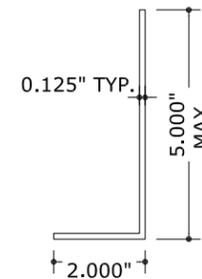
**1 STORM PANEL PROFILE**  
4" = 1'-0" SECTION



**2 STUDLESS FLAT TRACK**  
3" = 1'-0"



**3 STUDLESS ANGLE TRACK**  
3" = 1'-0"



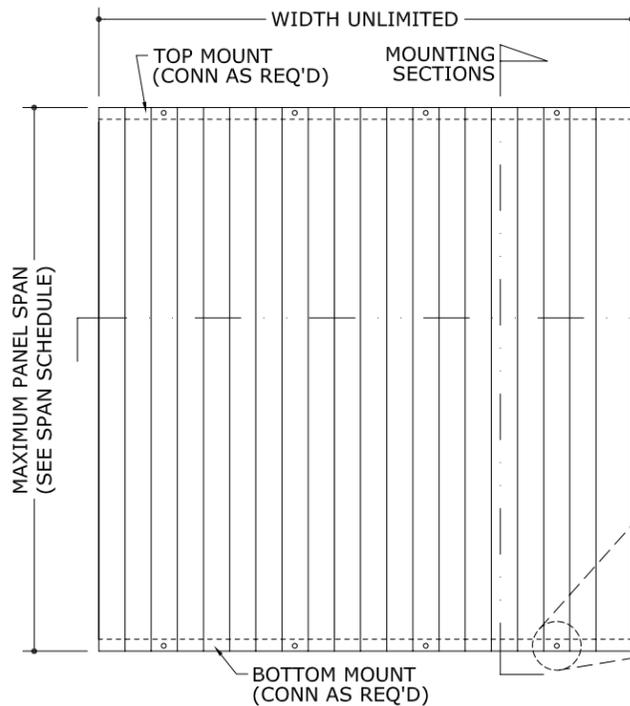
**4 BUILDOUT ANGLE**  
3" = 1'-0"

## GENERAL NOTES

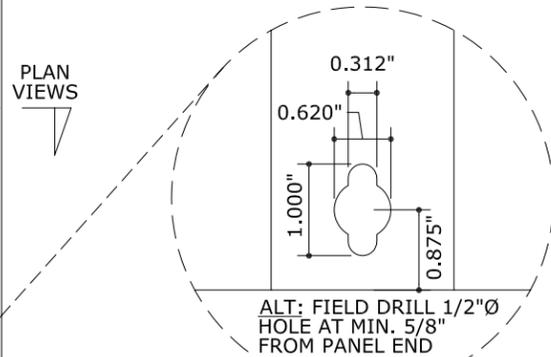
1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE PER ASTM E330, E1886 AND E1996 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. 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.
4. 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.
5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
6. ALL STORM PANELS SHALL HAVE A MINIMUM GALVANIZED THICKNESS t=0.0201" CONFORMING TO ASTM A653, STRUCTURAL QUALITY GRADE 50, WITH G60 GALVANIZED COATING AND MIN Fy = 57.2 Ksi.
7. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
8. PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING:  
METALS USA BLDG PRODUCTS  
GROVELAND, FLORIDA
9. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
10. USE OF KEYHOLE WASHERS IS OPTIONAL IN CONJUNCTION WITH ALL MOUNTING CONDITIONS, EXCEPT THAT DIRECT MOUNT INSTALLATIONS SHALL REQUIRE A KEYHOLE WASHER AT EACH ANCHOR. WASHERED WINGNUTS SHALL HAVE 0.865" MINIMUM WASHER DIAMETER.
11. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

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A FRANK L. BENNARDO, P.E., INC. INNOVATION

**METALS USA BUILDING PRODUCTS**  
7815 AMERICAN WAY  
GROVELAND, FL 34736  
26 ga GALV. STEEL STORM PANEL  
TEXAS DEPARTMENT OF INSURANCE  
PRODUCT EVALUATION



**1 TYPICAL ELEVATION**  
1 N.T.S.



**1 KEYHOLE DETAIL**  
1 N.T.S.

## PANEL SPAN SCHEDULE

DESIGN LOAD	MAX PANEL SPAN
25 psf	8'-5"
35 psf	7'-4"
40 psf	6'-6"
45 psf	5'-9"
50 psf	5'-2"
55 psf	4'-9"
60 psf	4'-4"
65 psf	4'-0"

## SPAN SCHEDULE NOTES:

1. SPANS SHOWN IN "PANEL SPAN SCHEDULE" ABOVE ARE MAXIMUM ALLOWABLE SPANS AT EACH RESPECTIVE DESIGN PRESSURE. THIS SCHEDULE MAY BE USED FOR ALL PANELS MOUNTED WITH ANY COMBINATION OF EXTRUSIONS OR DIRECTLY TO HOST STRUCTURE.
5. TABLES ABOVE ARE VALID FOR PANELS MOUNTED HORIZONTALLY OR VERTICALLY.

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	CL	8/29/06

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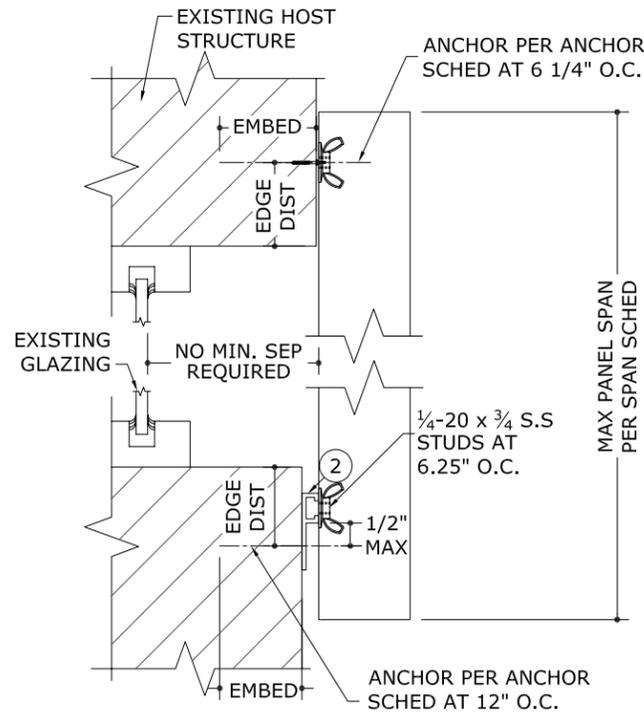
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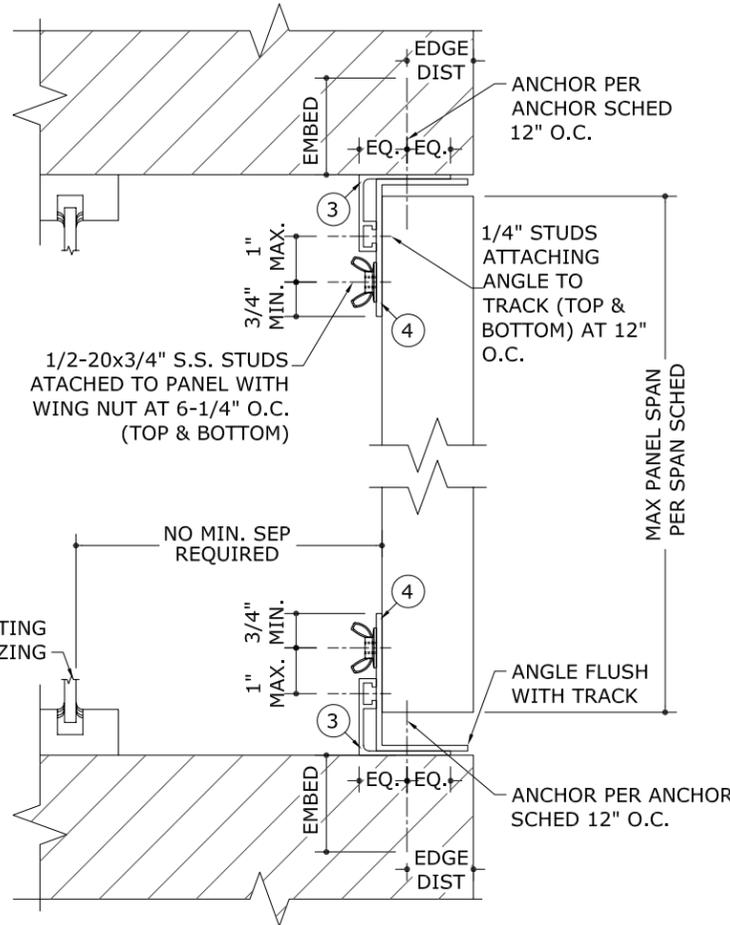
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1 OF 2

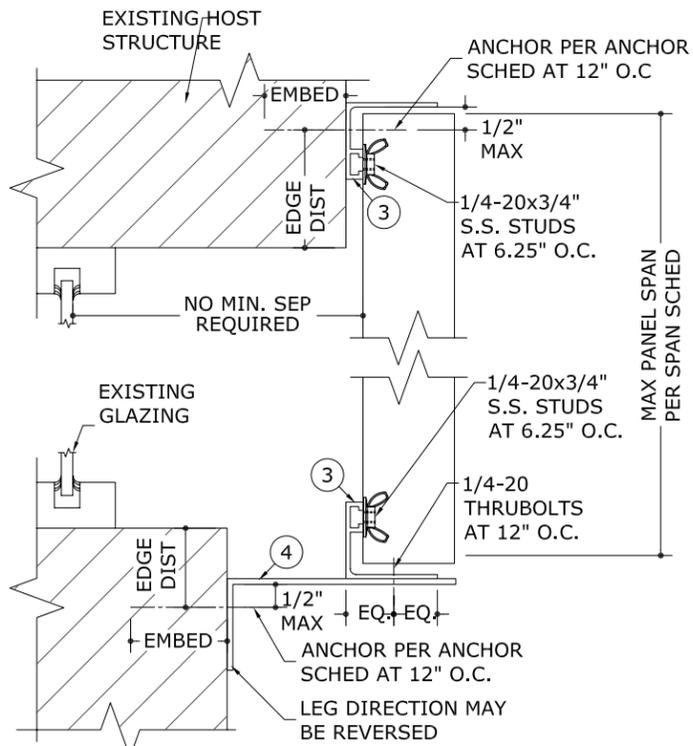
F:\01 Project Files\Metals USA (MEU)\2006 Jobs\06-MEU-0002 26ga Galv Steel Storm Panels (TD)\06-MEU-0002\_00c 26ga Steel storm panel (TD).dwg  
11/15/2007 - 1:47pm keith



**1**  
**2** 3" = 1'-0" MOUNTING SECTION



**3**  
**2** 3" = 1'-0" MOUNTING SECTION



**2**  
**2** 3" = 1'-0" MOUNTING SECTION

### ANCHOR SCHEDULE:

#### TO HOLLOW BLOCK OR CONCRETE:

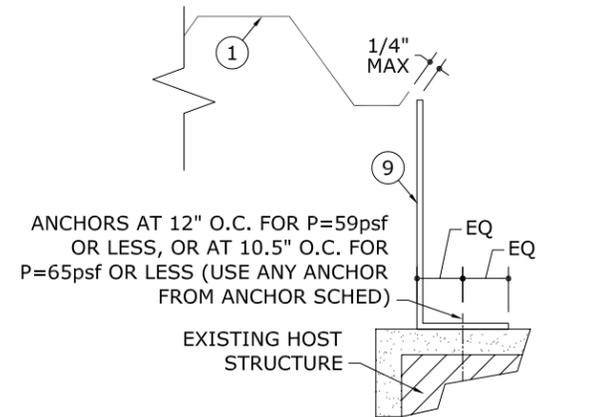
- 1/4" TAPCONS (ELCO OR ITW) WITH 1-3/4" MIN EMBED & 2-1/2" MIN EDGE DISTANCE.
- \* 1/4" ELCO PANELMATES (MALE, FEMALE, OR PLUS) WITH 1-3/4" MIN EMBED & 2-1/2" MIN EDGE DISTANCE.
- \* 1/4-20 POWERS CALK-IN WITH 7/8" MIN EMBED & 2-1/2" MIN EDGE DISTANCE.
- \* 1/4-20 ALL POINTS SOLID-SET ANCHOR WITH 7/8" MIN EMBED & 2-1/2" MIN EDGE DISTANCE.

#### TO WOOD:

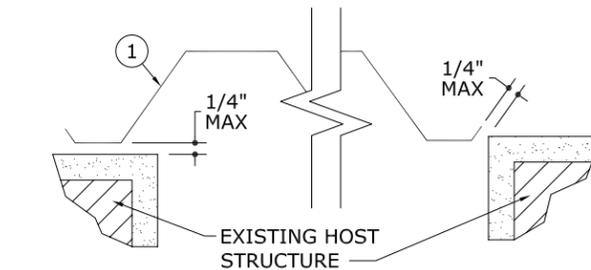
- 1/4" TAPCONS (ELCO OR ITW) OR #14 WOOD SCREWS WITH 1-1/2" MIN EMBED & 3/4" MIN EDGE DISTANCE.
- 1/4" LAG SCREWS WITH 1-1/2" MIN THREAD PENETRATION & 3/4" MIN EDGE DISTANCE.
- \* 1/4" PANELMATES (MALE, FEMALE, OR PLUS) WITH 1-1/2" MIN EMBED & 3/4" MIN EDGE DISTANCE.

### ANCHOR NOTES:

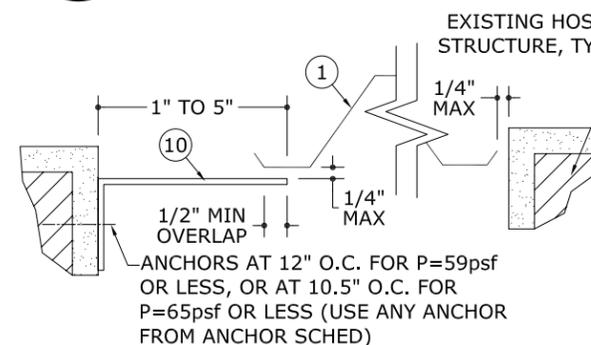
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. TAPCONS MAY BE MANUFACTURED BY ELCO OR ITW. "ELCO PANELMATE" ANCHORS FOR USE IN CONCRETE, HOLLOW BLOCK, OR WOOD MAY BE MALE, FEMALE, OR PANELMATE PLUS.
3. ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK.
4. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
5. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
6. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
7. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
11. 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.N.O.
12. \* DESIGNATES ANCHORS WHICH ARE REMOVABLE AND MAY BE USED FOR DIRECT MOUNT INSTALLATIONS.



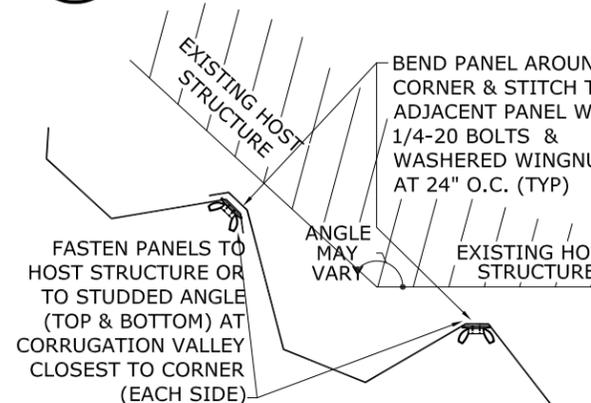
**4**  
**2** 3" = 1'-0" PLAN VIEW



**5**  
**2** 3" = 1'-0" PLAN VIEW



**6**  
**2** 3" = 1'-0" PLAN VIEW



**7**  
**2** N.T.S. PLAN VIEW

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11/15/2007

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