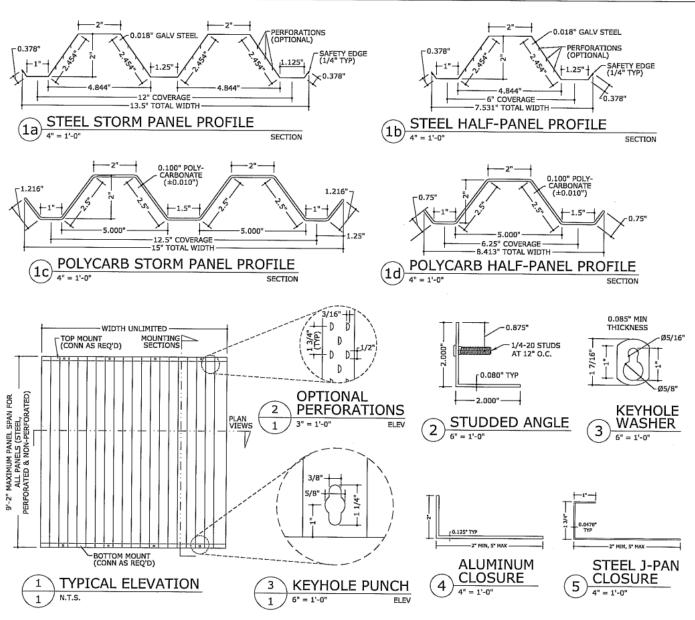
"SAFETY EDGE" & POLYCARB STORM PANELS

28ga (0.018") STEEL & 0.100" POLYCARB



GENERAL NOTES:

- 1) THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER ASTM STANDARDS E330, E1886, & E1996.
- 2) NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WID LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.

 3) POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED
- WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS FOR SPECIFIC JOBS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN CALCULATING PRESSURES PER ASCE 7, USE OF DIRECTIONALITY FACTOR Kd=0.85 IS ALLOWED.
- 4) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- 5) PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND NEW SUPERIMPOSED
- 6) CLEAR POLYCARBONATE PANELS SHALL BE ALTERNATED WITH 0.018" (MIN) GALV STEEL PANELS SUCH THAT NO TWO POLYCARBONATE PANELS ARE ADJACENT TO EACH OTHER.
- 7) ALL PANELS SHALL BE INSTALLED USING KEYHOLE WASHERS IN CONJUNCTION WITH ALL MOUNTING CONDITIONS.
- 8) ALL GALV STEEL STORM PANELS SHALL HAVE MIN GALVANIZED THICKNESS t=0.018" CONFORMING TO ASTM A653, STRUCTURAL QUALITY GRADE 40, WITH G60 GALVANIZED COATING AND MIN Fy=44.58 KSI.
- 10) CLEAR POLYCARBONATE STORM PANELS WITH 12.5" COVERAGE SHALL BE MFD BY TRANSPARENT PROTECTION SYSTEMS, Inc., AND THOSE WITH 6.25" COVERAGE SHALL BE MANUFACTURED BY TOWN & COUNTRY INDUSTRIES, Inc. ALL POLYCARB PANELS SHALL BE EXTRUDED WITH MIN THICKNESS t=0.100" (±0.010") AND SHALL BE FABRICATED FROM 100% G.E. SYNTHETIC THERMOPLASTIC POLYMER LEXAN RESIN #103-112 (UV STABILIZED) OR EQUIVALENT. THIS MATERIAL IS COMPARABLE TO G.E. LEXAN POLYMER SHEET #9034, AS APPROVED UNDER MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE #03-0924.01. MINIMUM SYNTHETIC THERMOPLASTIC POLYMER TENSILE STRENGTH Fy=8.908 KSI, FLEXURAL STRENGTH Fby=12.90 KSI, &
- FLEXURAL MODULUS IS 328.7 KSI.

 11) ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
- 12) PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL AS FOLLOWS:

TOWN & COUNTRY IND. ASTM E1886, E1996 & E330 MISSILE D FBC APPROVED

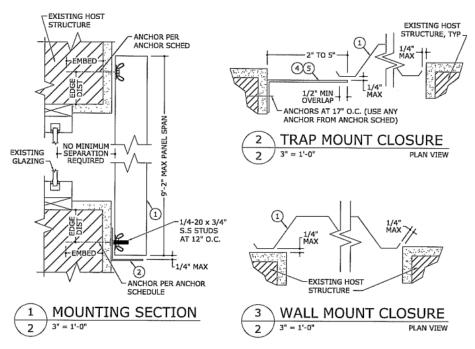
- 13) STORM PANELS HAVE BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS AND LOADS SHOWN ON THESE DRAWINGS. REFERENCE CONSTRUCTION TESTING CORPORATION (CTC OF MIAMI, FL) TEST REPORTS #04-004, #04-005, & #04-006.
- 14) TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
- 15) ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL GALVANIZED STEEL, STAINLESS STEEL, OR 2024-T4 ALUMINUM ALLOY WITH A MINIMUM TENSILE YIELD STRENGTH OF 33 KSI.

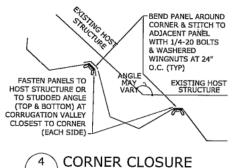


05-TCM-0001

PAGE SCALE:

°5





PLAN VIEW

SPAN SCHEDULE

28qa (0.018") GALV STEEL PANELS

MAX LOAD: ±54.0 psf

MAX SPAN: 9'-2" (ALL MOUNTING CONDITIONS)

MIN SPANS: 26" (DIRECT MOUNT TOP & BOTTOM)

16" (ALL OTHER CONDITIONS)

0.100" CLEAR POLYCARB FULL-/HALF-PANELS MAX LOAD: ±54.0 psf

MAX SPAN:

9'-2" (ALL MOUNTING CONDITIONS) MIN SPANS:

(DIRECT MOUNT TOP & BOTTOM)
(ALL OTHER CONDITIONS)

1/4" MAX / **4**(5) ANCHORS AT 17" O.C. (USE ANY ANCHOR FROM ANCHOR SCHED) EXISTING HOST STRUCTURE-

BUILD-OUT MOUNT CLOSURE FRANK L. BENNARDO, P.E. # PE0046549

COPYRIGHT FRANK L. BENNARDO P.I

05-TCM-0001 PAGE SCALE:

DESCRIPTION:

2

ANCHOR NOTES:

- 1) 1/4" TAPCONS MAY BE BY ITW OR BY ELCO. "ELCO PANELMATE" ANCHORS MAY BE ELCO FEMALE PANELMATE OR ELCO PANELMATE PLUS, AS ILLUSTRATED.
- 2) ENSURE MINIMUM 2" EDGE DISTANCE FOR ANCHORS TO CONCRETE & TO HOLLOW BLOCK. EDGE DISTANCE OF 3/4" IS ACCEPTABLE FOR ANCHORS TO WOOD, WITH THE EXCEPTION OF PANELMATE ANCHORS FOR WHICH 2" MIN EDGE DISTANCE IS REQUIRED. FOR PANELMATES TO WOOD WITH 3/4" MIN EDGE DISTANCE, ALLOWABLE SPACING SHALL BE 6" O.C.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- 4) ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD.
- 6) WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x4 (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING). WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY, UNLESS OTHERWISE NOTED.
- 7) ANCHOR SCHEDULE APPLIES FOR ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
- 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.

ANCHOR SCHEDULE

HOST STRUCT.	ANCHOR	LOAD (psf)	Spans Up To 5'-0"	Spans Up To 9'-2"
	1/4" TAPCON (ELCO OR ITW) x 1-3/4" EMBED (3192psi MIN CONC)	33	16.0"	16.0"
		38	16.0"	16.0"
		47	16.0"	16.0"
		54	16.0"	16.0"
벁	1/4" PANELMATE (PLUS OR FEMALE) × 1-3/4" EMBED (3350psi MIN CONC)	33	16.0"	16.0"
CONCRETE		38	16.0"	16.0"
		47	16.0"	16.0"
		54	16.0"	16.0"
	1/4" ALL POINTS SOLID-SET ANCHOR x 7/8" EMBED (3000psi MIN CONC)	33	16.0"	16.0"
		38	16.0"	16.0"
		47	16.0"	16.0"
L.,		54	16.0"	16.0"

HOST STRUCT.	ANCHOR	LOAD (psf)	Spans Up To 5'-0"	Spans Up To 9'-2"
	1/4" TAPCON (ELCO OR	33	16.0"	12.4"
	ITW) x 1-1/4" EMBED	38	16.0"	10.7"
	- vectorene-	47	15.9"	8.7"
		54	13.9"	7.6"
	1/4" PANELMATE (PLUS OR	33	16.0"	10.9"
B	FEMALE) x 1-1/4" EMBED	38	16.0"	9.5"
ó	cannanamp	47	14.1"	7.7"
뒝	<u>— шинин</u>	54	12.2"	6.7"
I	1/4" ALL POINTS SOLID-SET ANCHOR x 7/8" EMBED	33	16.0"	16.0"
		38	16.0"	16.0"
		47	16.0"	16.0"
		54	16.0"	16.0"

HOST STRUCT.	ANCHOR	LOAD (psf)	Spans Up To 5'-0"	Spans Up To 9'-2"
NIN C	1/4" TAPCON OR #14 WOOD SCREW x 2" EMBED	33 38 47 54	16.0" 16.0" 16.0"	15.2" 13.2" 10.7" 9.3"
WOOD (G=0.55 MIN SPECIFIC GRAVITY)	1/4" PANELMATE (PLUS OR FEMALE) × 1-7/8" EMBED (2" MIN EDGE DISTANCE)	33 38 47 54	16.0" 16.0" 16.0"	16.0" 16.0" 16.0"
WOC	1/4" LAG SCREW x 2" THREAD EMBED EMBED	33 38 47 54	16.0" 16.0" 16.0"	15.5" 13.4" 10.9" 9.5"

HOST STRUCT.	ANCHOR	LOAD (psf)	Spans Up To 5'-0"	Spans Up To 9'-2"
	1/4" TAPCON (ELCO OR ITW) x 2" EMBED	33	16.0"	13.5"
1		38	16.0"	11.7"
1		47	16.0"	9.5"
1		54	15.1"	8.3"
		33	16.0"	13.1"
Ĭξ		38	16.0"	11.4"
=0.42 MI		47	16.0"	9.2"
급 K		54	14.7"	8.0"
WOOD (G=0.42 MIN SPECIFIC GRAVITY)	1/4" LAG SCREW x 2" EMBEDMENT EMBED	33	16.0"	16.0"
62		38	16.0"	16.0"
WC		47	16.0"	13.5"
		54	16.0"	11.8"
	1/4" 18-8 STAINLESS STEEL HANGER BOLT x 2" EMBED + EMBED +	33	16.0"	16.0"
		38	16.0"	16.0"
		47	16.0"	13.5"
		54	16.0"	11.8"

FRANK L. BENNARDO, P. # PED046549.

NEERING 7ESS® 1/2 | ENUE, #106.

EXPRE EXPRE 160 SW 12th AVENU DEERFIELD BEACH, PH. (GGA) 754-0660

E *Counting* Stries MCNAB ROAD ERDALE, FL 33309

FORT

SAFETY EDGE: 8

COCKRETE THE REPORTEY OF THE STANDARD P. S. MALL HERMAND P. S. MALL HE

문[동] ,] ,] ,] 플릭용기술 COPYRIGHT FRANK L. BENNARDOP 05-TCM-0001

PAGE SCALE: DESCRIPTION: