

GENERAL NOTES AND SPECIFICATIONS:

1. DOOR SYSTEMS W/ SIDELITE & TRANSOM (ASSEMBLIES), SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAVE BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. DOOR MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 & 1609 OF THE ABOVE MENTIONED CODE, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEET 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 3.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2018.

THESE ASSEMBLIES ADEQUACY FOR WIND AND IMPACT LOAD HAVE BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER CERTIFIED TESTING LAB. REPORTS #CTLA 1992W AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. SIDE LITES & TRANSOMS INDICATED ON THIS DRAWINGS MAY BE USED JOINTLY WITH OTHER APPROVED DOORS (SEE NOTE 9 FOR WATER INFILTRATION LIMITS). MAXIMUM ASD DESIGN PRESSURE RATING WILL BE THE LEAST BETWEEN THE APPROVED DOOR AND ± 50.0 psf.

2. ALL COMPONENTS SHALL BE AS SPECIFIED ON SHEET 4 AND AT BILL OF MATERIALS ON SHEET 3 OF THIS DRAWING. GLASS HAS BEEN VERIFIED PER ASTM E-1300, PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE,

3. COMPLIANCE OF EGRESS / ESCAPE REQUIREMENTS OF DOORS PER FLORIDA BUILDING CODE TO BE DETERMINED BY BUILDING OFFICIALS ON A CASE-BY-CASE BASIS.

4. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.

5. ALL WELDING TO CONFORM W/AMERICAN WELDING SOCIETY A.W.S. D.1.3 AND D-19.0 REGULATIONS WITH E60XX ELECTRODES, FOR GALVANNEAL MATERIAL, AND W/AMERICAN WELDING SOCIETY A.W.S. D.1.6 REGULATIONS W/ E-308 ELECTRODES (FU=80k.s.i.) FOR STAINLESS STEEL MATERIAL

6. ALL ANCHORS FOR FRAME CONNECTIONS TO EXISTING STRUCTURE SHALL BE AS SPECIFIED ON SHEET 12 OF THIS DRAWING. MAXIMUM ANCHORS SPACINGS SHALL BE AS PER SCHEDULE ON SHEET 12 AND ELEVATIONS ON SHEET 2 OF THIS DRAWING. SEE SHEETS 2 & 12 FOR THRESHOLD ANCHORS, AND SHEET 11 FOR MULLION ANCHORS.

7. PROVIDE MAX. LOAD BEARING SHIM SPACE AS INDICATED ON SHEETS 6 & 7.

8. ASSEMBLIES WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

9. THESE ASSEMBLIES (DOOR SHOWN ON THIS DRAWING OR ANY OTHER APPROVED DOOR PLUS SIDE LITES & TRANSOM) ARE NOT APPROVED FOR WATER AND AIR INFILTRATION, AND SHALL NOT BE USED WHERE WATER INFILTRATION IS REQUIRED. HOWEVER, ASSEMBLIES THAT DO NOT INCLUDE DOORS ARE APPROVED FOR WATER & AIR INFILTRATION.

10. PROVIDE SPECIFIED SEALANT AT ALL DOOR FRAME, THRESHOLD AND AT SIDELITE TRANSOM FRAME, AS INDICATED ON THIS DRAWING.

11. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERTY TO TRANSFER LOADS TO THE BUILDING STRUCTURE AND, MUST BE SOUTHERN PINE W/ G=0.55, AND SHALL COMPLY W/ SECTIONS 2411.3.3.3; 2326 OF THE FLORIDA BUILDING CODE.

12. PRODUCT SHALL COMPLY WITH SECTIONS 2406 OF THE FLORIDA BUILDING CODE

13. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

14. SHOP DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.

15. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE SUPERIMPOSED LOADS TRANSFERRED BY THESE DOORS AND SIDELITE/STRANSOM SYSTEM.

16. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

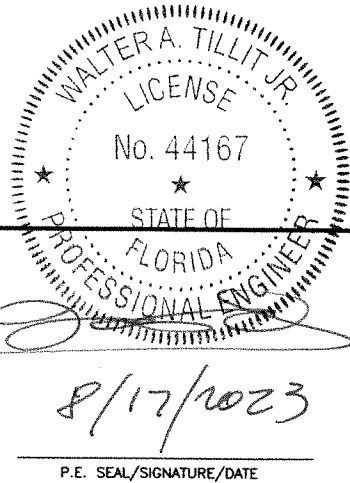
(d) ORIGINAL P.E.D SHALL BEAR THE DATE, SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

17. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

SHEETS CONTENT:

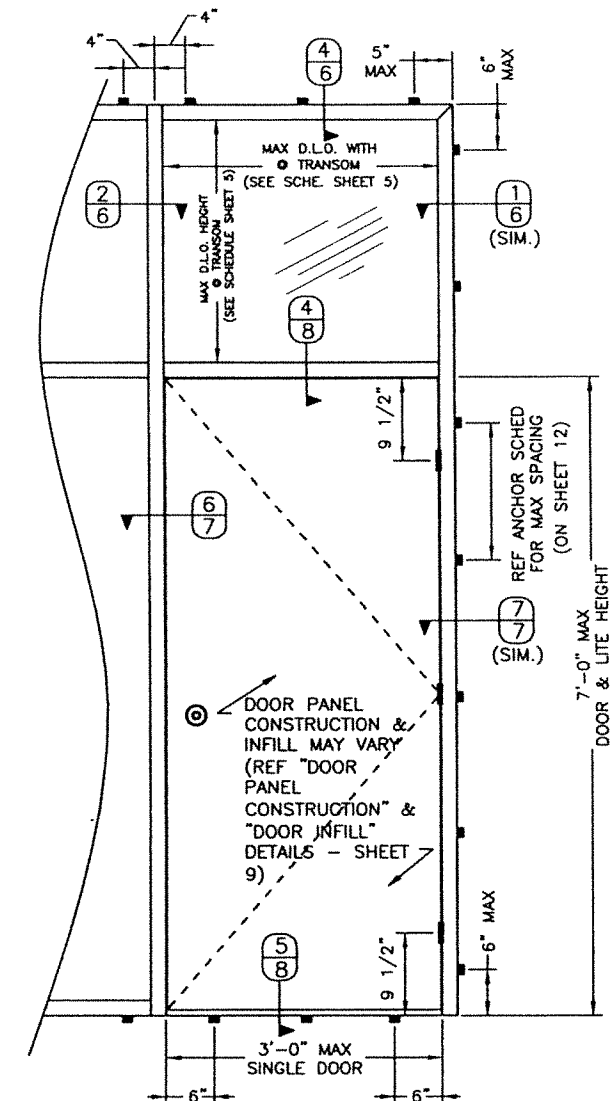
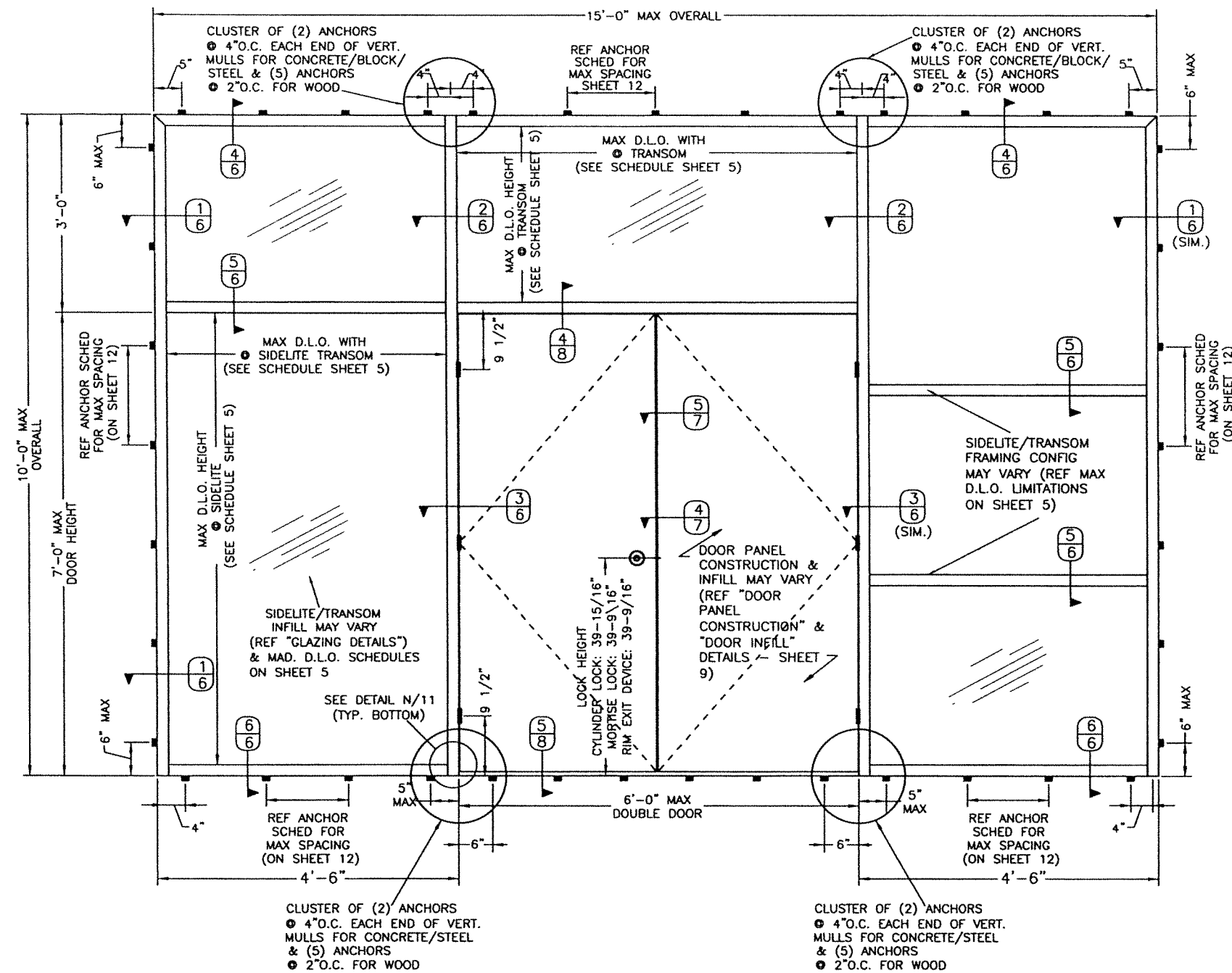
- SHEET #1 INDEX, COVER SHEET & GENERAL NOTES
- SHEET #2 ASSEMBLY ELEVATIONS.
- SHEET #3 BILL OF MATERIALS.
- SHEET #4 COMPONENTS.
- SHEET #5 GLAZING DETAILS.
- SHEET #6 VERTICAL AND HORIZONTAL SECTIONS.
- SHEET #7 HORIZONTAL SECTIONS AT HARDWARE.
- SHEET #8 VERTICAL SECTIONS AT HARDWARE.
- SHEET #9 DOOR PANELS HORIZONTAL SECTIONS AT DOOR PANELS.
- SHEET #10 RIM EXIT DEVICE W/ REMOVABLE MULLION.
- SHEET #11 FRAMING DETAILS AND MULLION INSTALLATION DETAILS.
- SHEET #12 ANCHOR DETAILS & MAX. SPACING SCHEDULE.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA



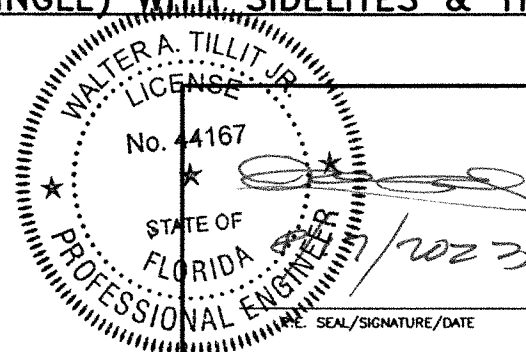
TILTECO Inc. logo and contact information for Tillit Testing & Engineering Company.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)					
DOUBLE & SINGLE COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR, FLUSH, EMBOSSED, W/ VISION LITE OR LOUVER KITS WITH SIDE LITES & TRANSOMS OF DIFFERENT INFILLS				DRAWN BY: Y.M.	
DAYBAR INDUSTRIES LTD				08/17/2023 DATE	
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204				23-177 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-157	08/17/23	3		
2			4		
					SHEET 1 OF 12



TYPICAL EXTERIOR ELEVATION FOR STEEL DOOR SYSTEMS (DOUBLE & SINGLE) WITH SIDELITES & TRANSOMS

MAXIMUM A.S.D. DESIGN
 PRESSURE RATING:
 +50.0, -50.0 PSF



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 e-mail: tilteco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

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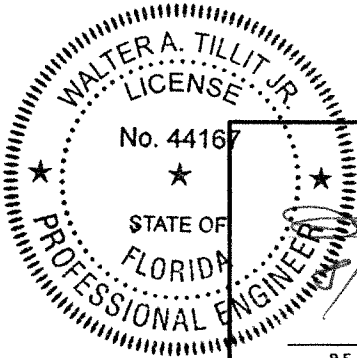
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SHEET 2 OF 12

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2			4		

BILL OF MATERIALS:

ITEM	DESCRIPTION	MATERIAL	SIZE AND SPEC'S
1	FRAME MULLION CLIPS ("L" & "U") PERIMETER FRAME (HEAD, SILL, JAMB)	16ga (0.051") GALVANNEALED STEEL: ASTM A653, TYPE B, WITH A40 PAINTABLE GALVANNEAL COATING	(Fy=45ksi, Fu=52ksi) OR AISI 304 SERIES STAINLESS STEEL (Fy=45ksi, Fu=101ksi).
2	FRAME MULLION (VERT & HORIZ)	SAME AS ITEM #1	
3	FRAME MULLION REINFORCEMENT	14ga GALV STEEL	
4	DOOR PANEL ASSEMBLY (FLUSH OR EMBOSSED)	GALVANNEALED STEEL: ASTM A924, ASTM A653, TYPE B, WITH A40 PAINTABLE GALVANNEAL COATING	(Fy=45ksi, Fu=60ksi) OR AISI 304 SERIES STAINLESS STEEL (Fy=45ksi, Fu=101ksi)
5	THRESHOLD: NATIONAL GUARD PRODUCTS #950NA	EXTRUDED ALUMINUM 6063-T5	
6	SECURITY LOUVER KIT: AIR LOUVERS MODEL 1500-A	PER MANUFACTURER'S SPECS	
7	DOOR SNAP-IN TOP CAP	20ga GALVANNEAL STEEL (ASTM A653 WITH G60 COATING) OR STAINLESS STEEL(AISI 304SERIES)	
8	GLAZING STOP	GALVANNEAL STEEL OR STAINLESS STEEL	
9	FRAME MULLION CLIP ("U")	GALVANNEAL STEEL OR STAINLESS STEEL	USE "U" CLIP ⑨ AT BOTTOM ALWAYS
10	HINGES: HAGER #BB-1279	STEEL (PER MFR'S SPECS)	
11	RIM EXIT DEVICE: VON DUPRIN 98/99L W/ 499F STRIKE	PER MFR'S SPECS	
12	REMOVABLE MULLION: VON DUPRIN #9954	PER MFR'S SPECS	
13	CYLINDRICAL LOCK: SCHLAGE "D" SERIES	PER MFR'S SPECS	
14	DEAD BOLT: SCHLAGE "B" SERIES	PER MFR'S SPECS	
15	MORTISE LOCKSET W/ DEADBOLT: SCHLAGE L9000 SERIES	PER MFR'S SPECS	
16	SURFACE BOLT: HAGER #275D (8" LONG)	PER MFR'S SPECS	
17	"Z" ASTRAGAL	ASTM A500, GRADE 'B' GALVANNEAL STEEL OR STAINLESS STEEL	
18	PRESS-ON BULB WEATHERSTRIPPING: NATIONAL GUARD PRODUCTS #361	NEOPRENE, SELF-ADHESIVE	
19	DOOR STILE HINGE REINFORCEMENT	8ga GALVANNEAL STEEL OR STAINLESS STEEL	
20	FRAME HINGE REINFORCEMENT	8ga GALVANNEAL STEEL OR STAINLESS STEEL	
21	ASTRAGAL STRIKE REINFORCEMENT	12ga GALVANNEAL STEEL OR STAINLESS STEEL	
22	FRAME STRIKE REINFORCEMENT	GALVANNEAL STEEL OR STAINLESS STEEL	
23	MORTISE LOCK & RIM EXIT DEVICE REINFORCEMENT	0.074" MIN GALVANNEAL STEEL OR STAINLESS STEEL	
24	CYLINDRICAL LOCK AND DEADBOLT REINFORCEMENT	STEEL, SATIN COATING	
25	DOOR SURFACE BOLT REINFORCEMENT: 1.688" x 3.5" x 9"	14ga (0.074") GALVANNEAL STEEL OR STAINLESS STEEL	
26	DOOR CLOSER REINFORCEMENT	GALVANNEAL STEEL OR STAINLESS STEEL	
27	BUTTERFLY ANCHOR CLIP: EMA #PT1-008	STEEL	18 GAUGE STEEL SATIN COAT.
28	MASONRY WIRE ANCHOR	STEEL: Fy=40ksi, Fu=96ksi	9 1/2" LONG X 0.157" MIN. DIAMETER.
29	MULLION FITTING #8620	STEEL	USE AT ⑫
35	WIRE MASONRY FRAME ANCHORS	STEEL W/ MIN. YIELD STRENGTH = 40.2Ksi AND MIN. TENSILE STRENGTH = 95.9 Ksi	9 1/2" LONG X 0.157" MIN. DIAMETER.
40	CAULKING GE SILICONE II	SILICONE	AS SHOWN ON DETAIL.
41	SURFACE STRIKE REINFORCEMENT	12 GAGE GALVANNEAL OR STAINLESS STEEL	12 GAGE (0.097" MIN.) x 154" x 11.875" LONG (SEE SHEET 10).
42	DOOR SNAP-IN TOP/BOTTOM CAP: 1.5625" x 1.00"	20ga (0.032") GALVANNEAL STEEL (ASTM A653 WITH G60 COATING) OR STAINLESS STEEL (AISI 304 SERIES)	
43	DOOR TOP/BOTTOM CHANNEL: 1.6875" x 1.439"	16ga (0.051") GALVANNEAL STEEL (ASTM A653 WITH G60 COATING) OR STAINLESS STEEL (AISI 304 SERIES)	



P.E. SEAL/SIGNATURE/DATE

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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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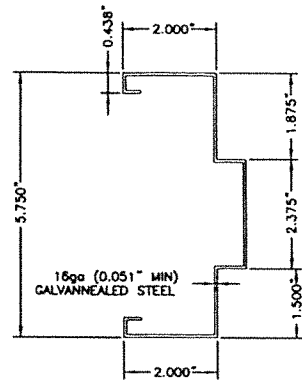
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 Y.M.

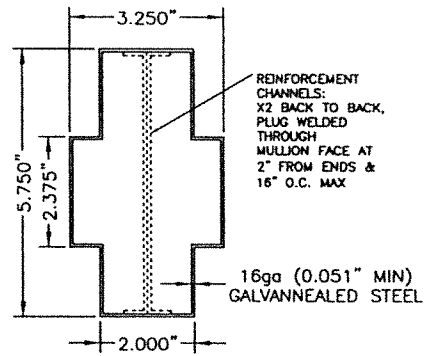
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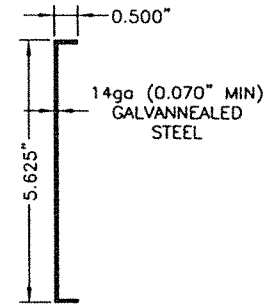
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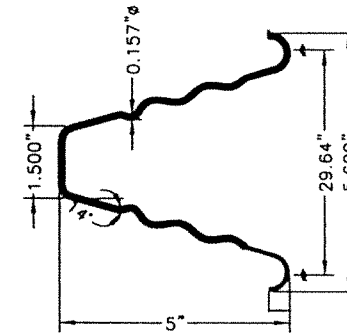
① PERIMETER FRAME



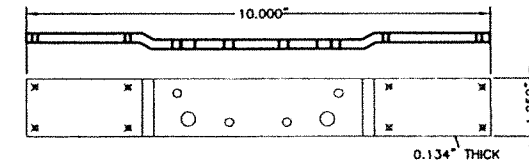
② FRAME MULLION



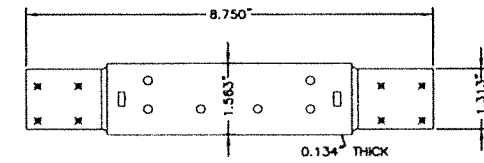
③ FRAME MULLION REINFORCEMENT



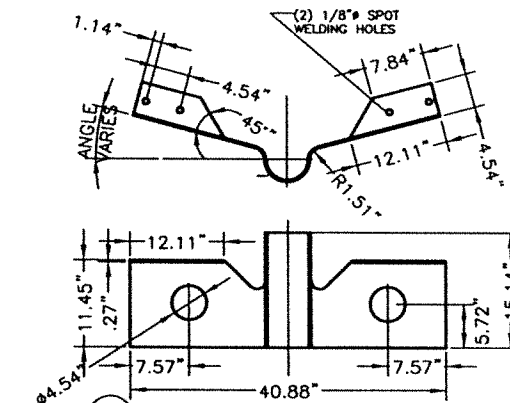
③⑤ WIRE ANCHOR FOR DETAIL #1/12
STEEL WIRE ANCHORS
(0.157" DIA, 9 1/2" LONG) IN HORIZ.
Fu Min.=95.9 Ksi, Fy Min.=40.2 Ksi



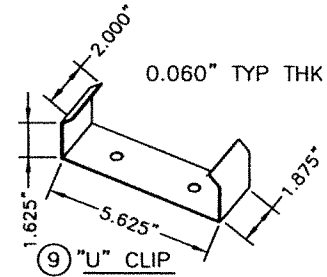
①⑨ DOOR STILE HINGE REINF



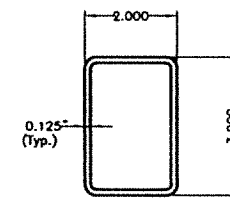
②⑩ FRAME/MULL HINGE REINF



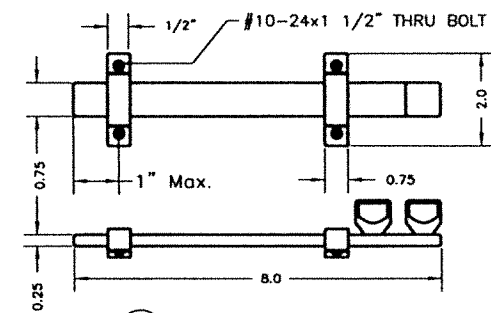
②⑦ EMA BUTTERFLY ANCHOR (PART #PT1-008)
FOR DETAILS 2/10, 3/10 4/10 & 6/10
MATERIAL: 18 GA SATIN COAT



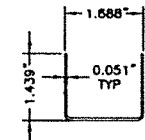
⑨ MULL ANCHOR CLIP



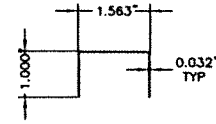
①② REMOVABLE MULLION



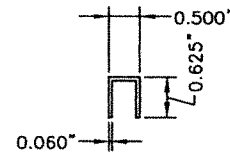
①⑥ SURFACE BOLT



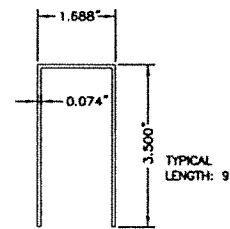
④③ DOOR TOP/BOTTOM CHANNEL



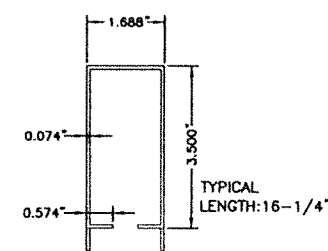
④② DOOR SNAP-IN TOP/BOTTOM CAP



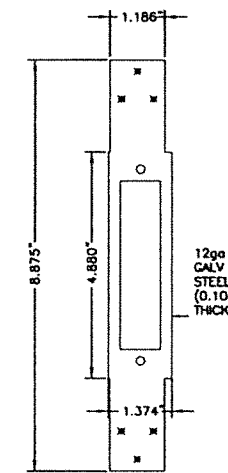
⑧ GLAZING STOP



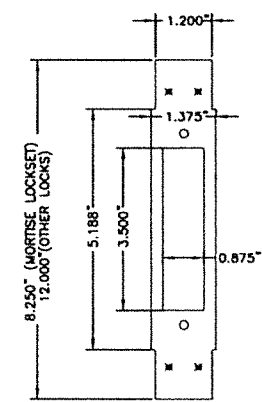
②⑤ SURFACE BOLT REINFORCEMENT



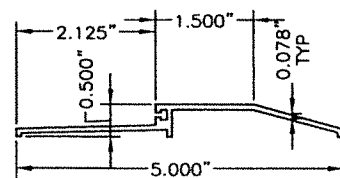
②⑥ DOOR CLOSER REINFORCEMENT



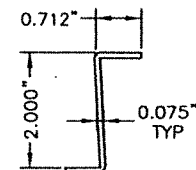
②① ASTRAGAL STRIKE REINF



②② FRAME/MULL STRIKE REINF



⑤ THRESHOLD



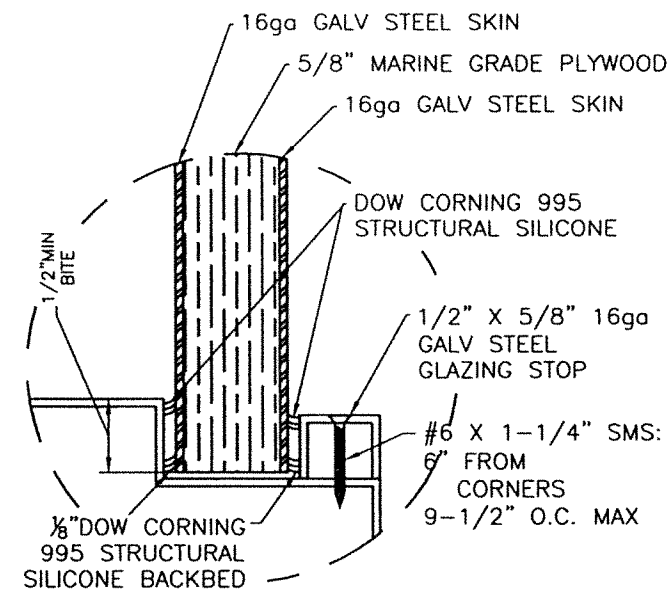
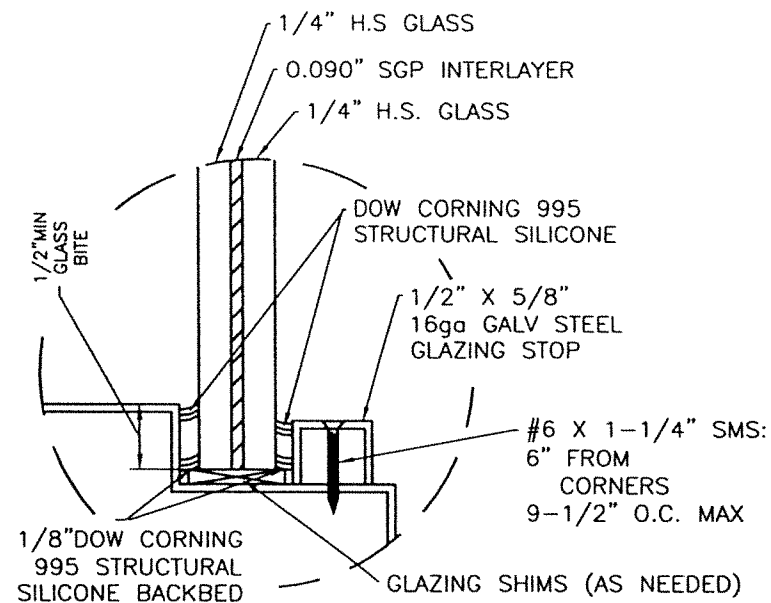
①⑦ "Z" ASTRAGAL

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/17/2023
P.E. SEAL/SIGNATURE/DATE

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FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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2			4		



(G1) GLAZING INFILL: OPTION #1
9/16" LAMINATED GLASS *

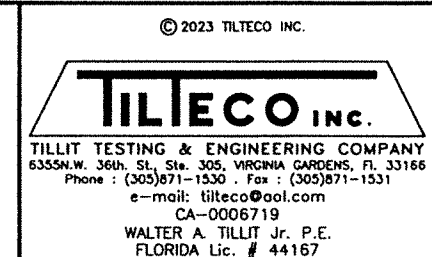
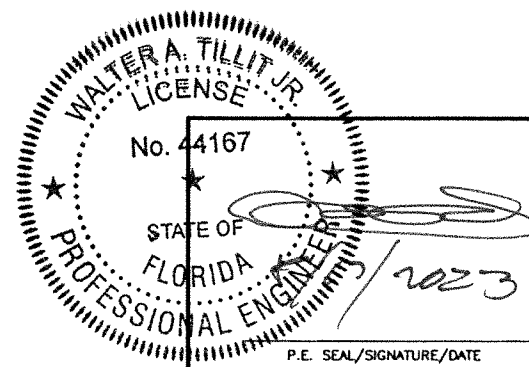
(P1) STEEL PANEL INFILL: OPTION #2
5/8" STEEL-CLAD PANEL *

GLAZING DETAILS AT SIDELITE & TRANSOM

* SEE SCHEDULE FOR MAX. DLO BELOW

MAX. DLO FOR (G1) & (P1)

INFILL	MAX DLO WIDTH	MAX DLO HEIGHT
(G1)	50"	82"
(P1)	50"	32"



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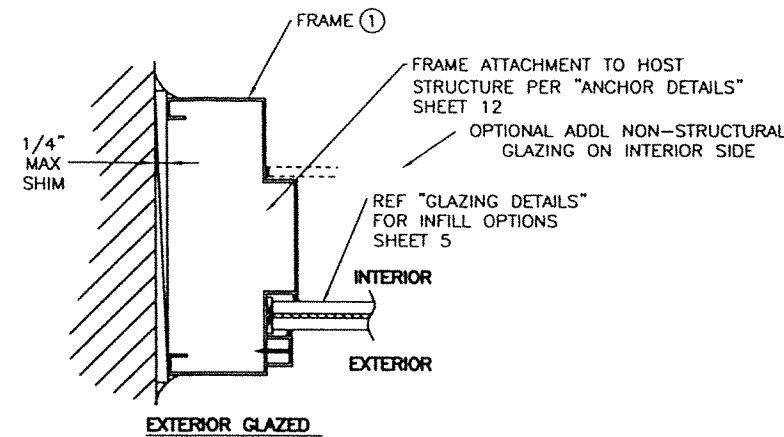
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DATE

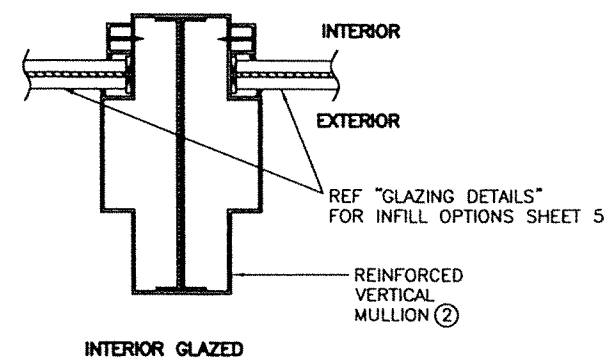
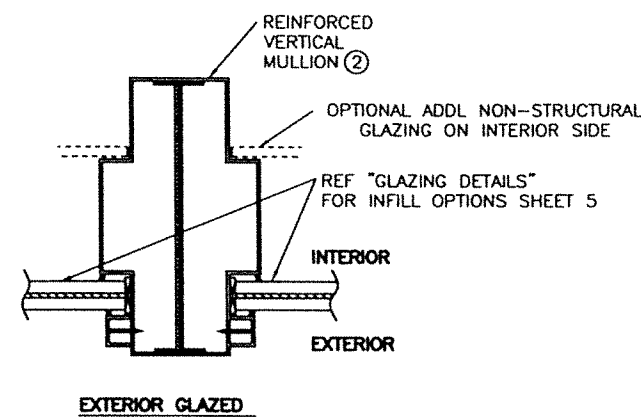
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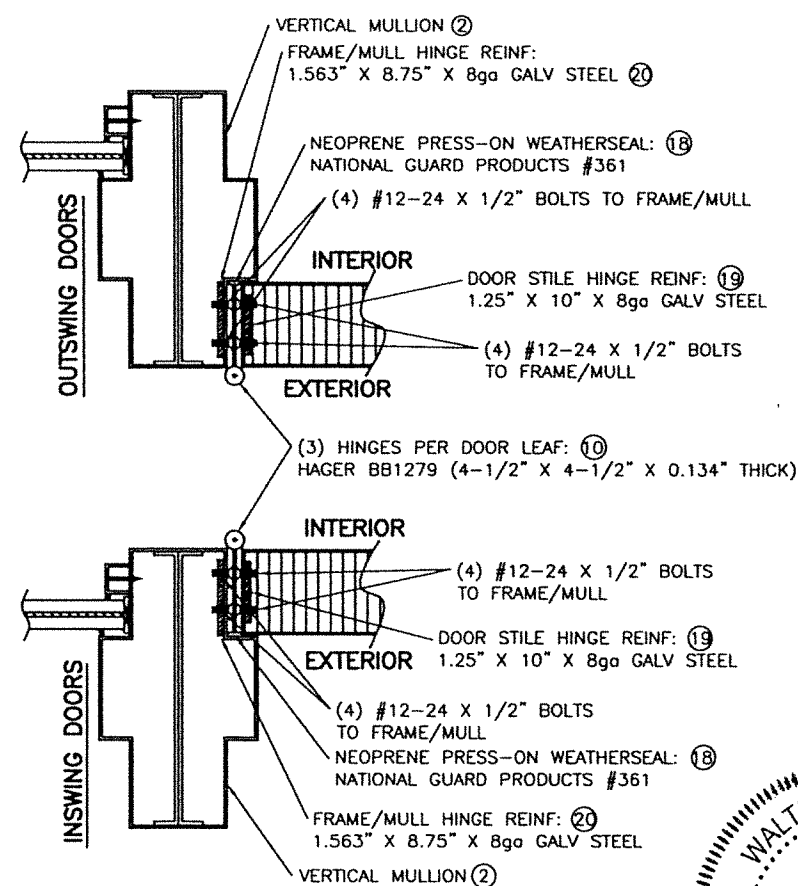
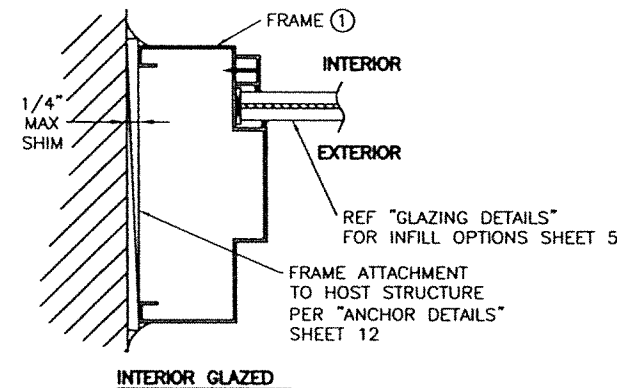
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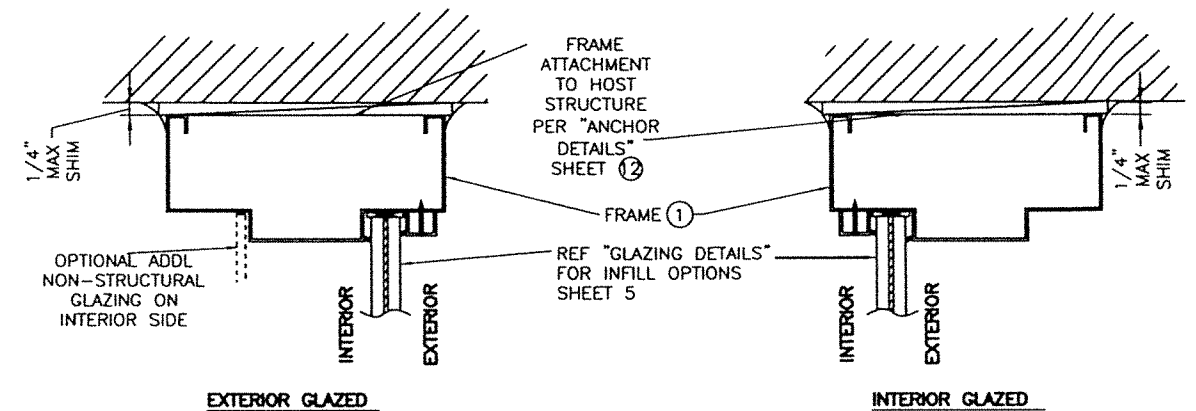
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6 SIDELITE/TRANSOM
FRAME AT JAMB



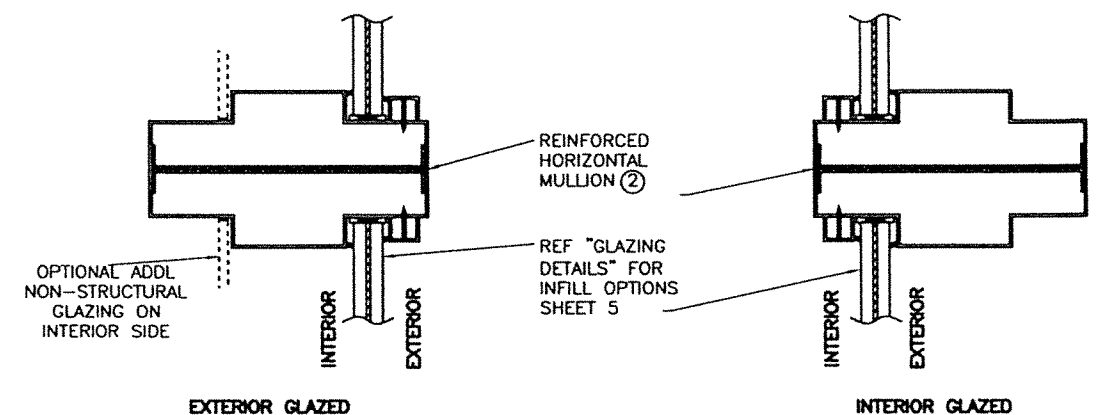
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VERTICAL MULLION



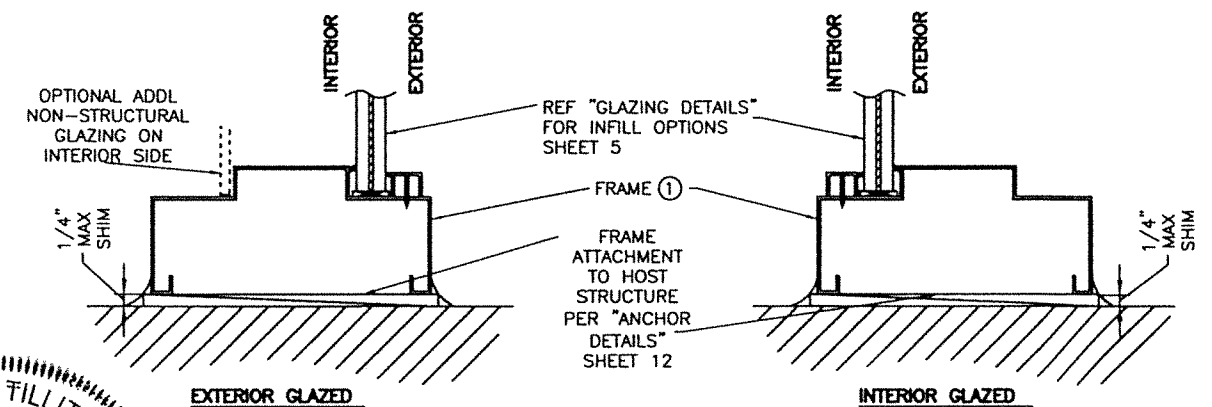
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6 DOOR HINGE STILE



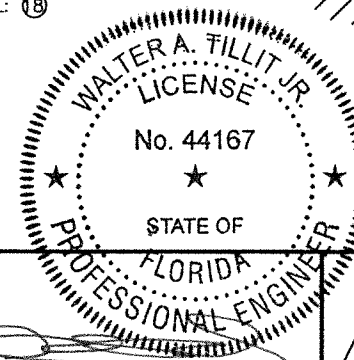
4
6 SIDELITE/TRANSOM FRAME AT HEAD



5
6 SIDELITE/TRANSOM HORIZONTAL MULLION



6
6 SIDELITE/TRANSOM FRAME AT SILL



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TILLIT TESTING & ENGINEERING COMPANY
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Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

DOUBLE & SINGLE COMMERCIAL
GALVANNEAL OR STAINLESS STEEL DOOR, FLUSH,
EMBOSSED, W/ VISION LITE OR LOUVER KITS WITH SIDE
LITES & TRANSOMS OF DIFFERENT INFILLS

DAYBAR INDUSTRIES LTD

50 WEST DRIVE, BRAMPTON,
ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

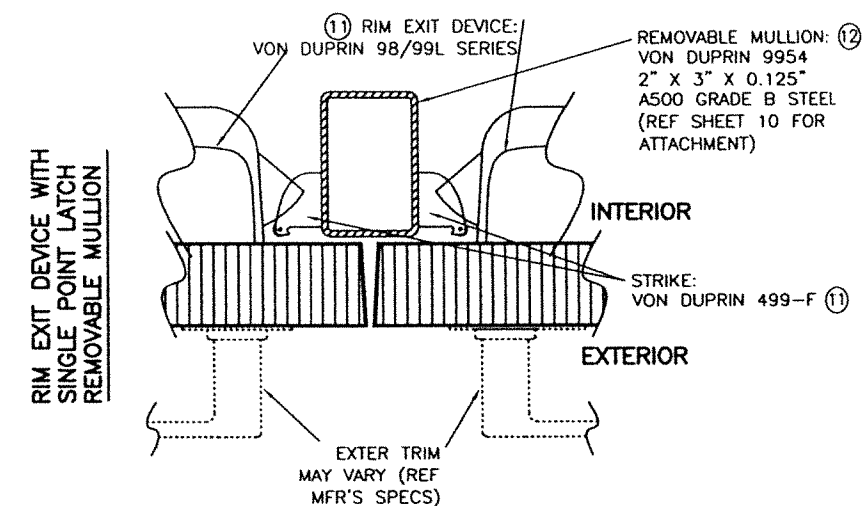
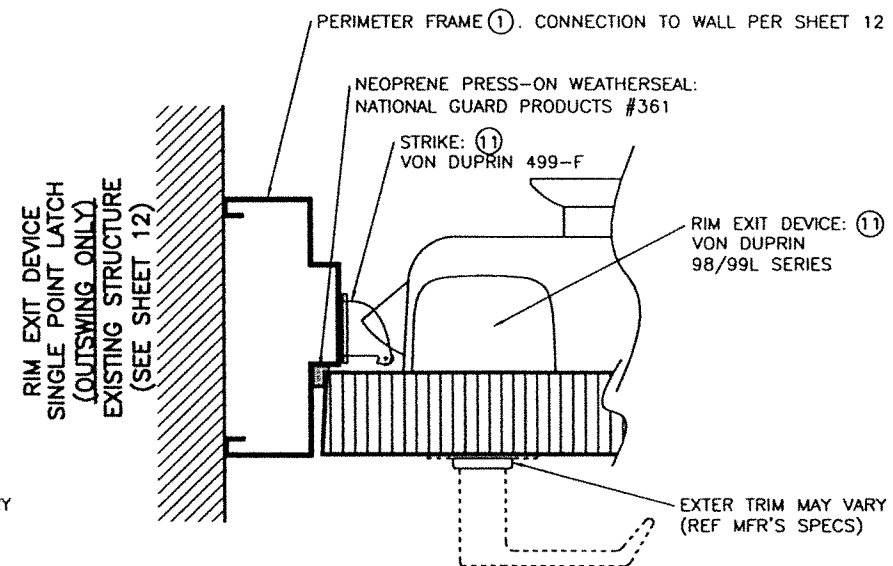
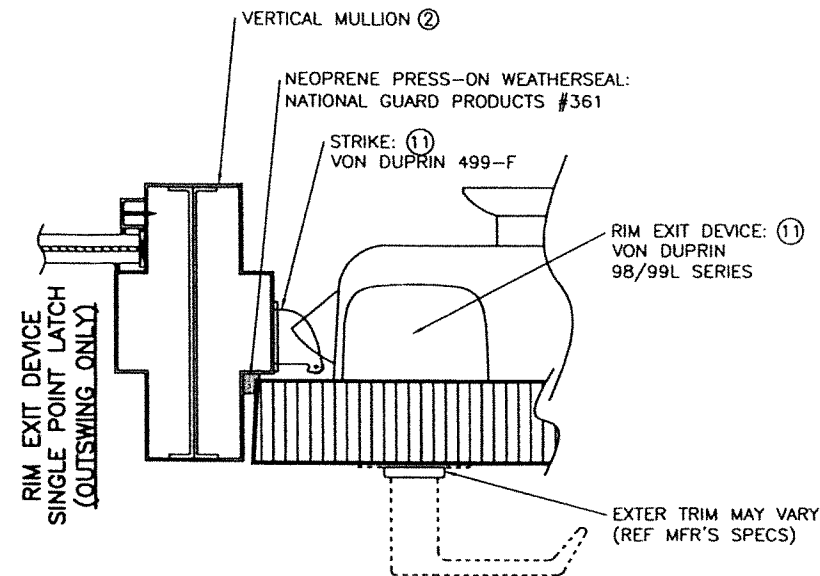
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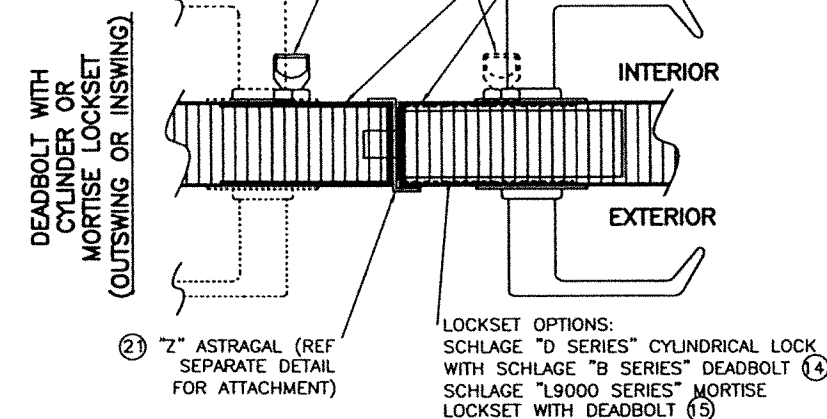
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DRAWING No

SHEET 6 OF 12

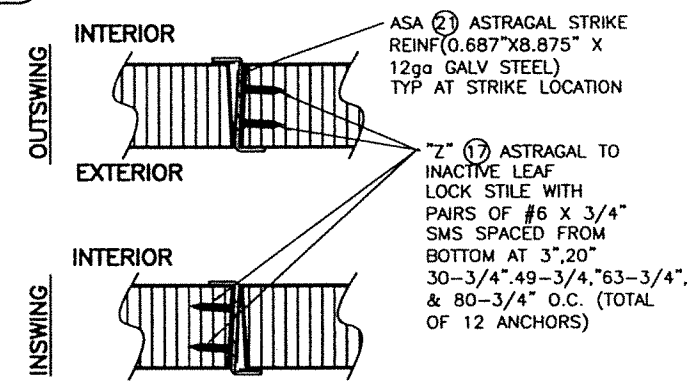
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2			4		



(16) SURFACE BOLTS AT HEAD & SILL (REF DOOR HEAD & SILL DETAILS FOR ATTACHMENT): HAGER MODEL 275D 1/4\" X 3/4\" X 8\" STEEL BOLTS (REQUIRED ON INACTIVE LEAF OPTIONAL ON ACTIVE LEAF)



4 DOUBLE DOOR LOCK STILES



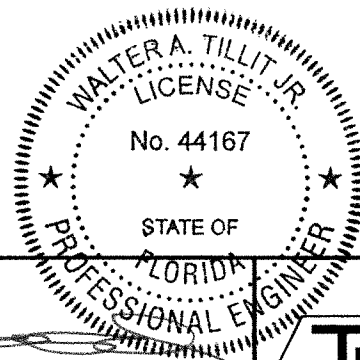
5 \"Z\" ASTRAGAL ATTACHMENT

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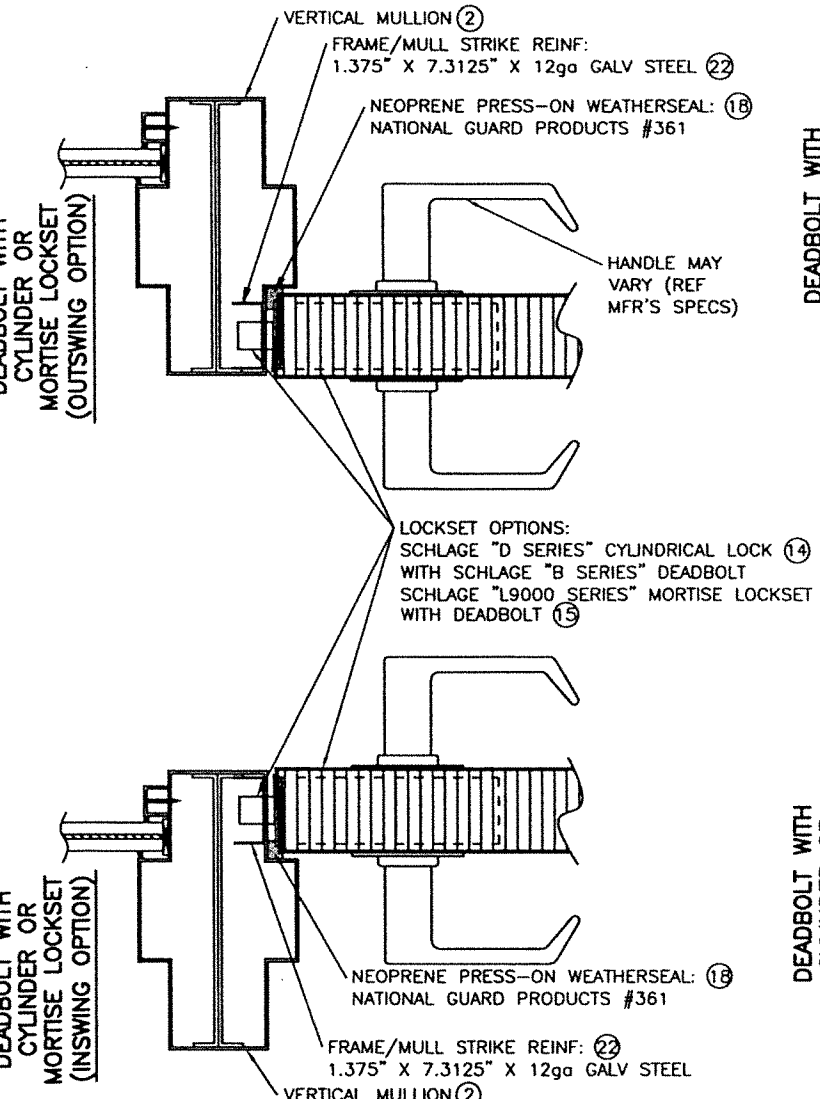
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DAYBAR INDUSTRIES LTD					
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4					
TEL: 905 625-8000 FAX: 905 625-4204					
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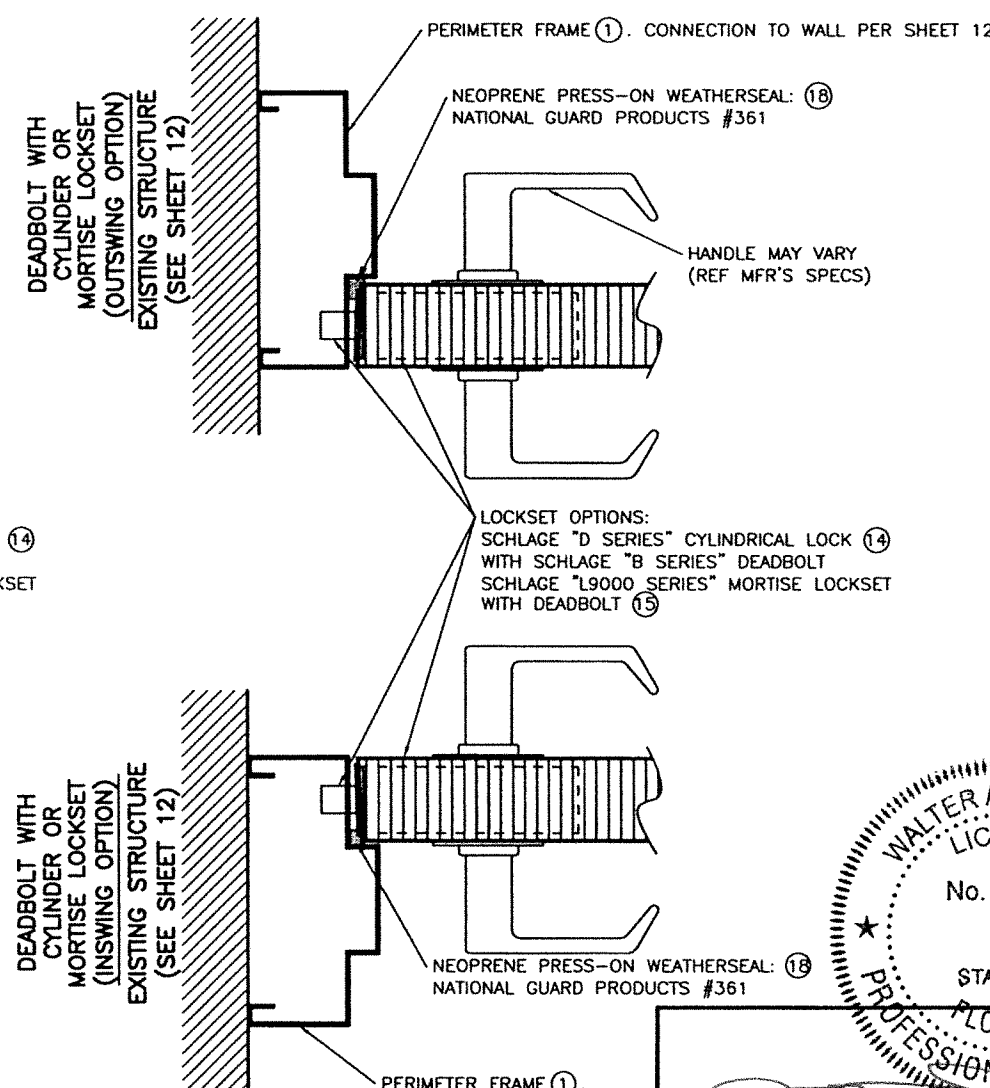
DRAWN BY: Y.M.
 08/17/2023 DATE
23-177
 DRAWING No
 SHEET 7 OF 12



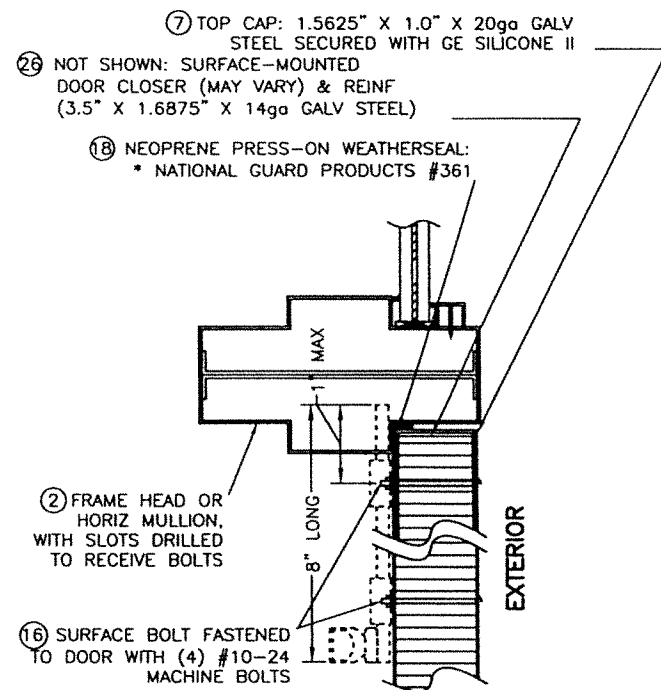
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6 SINGLE DOOR LOCK STILE

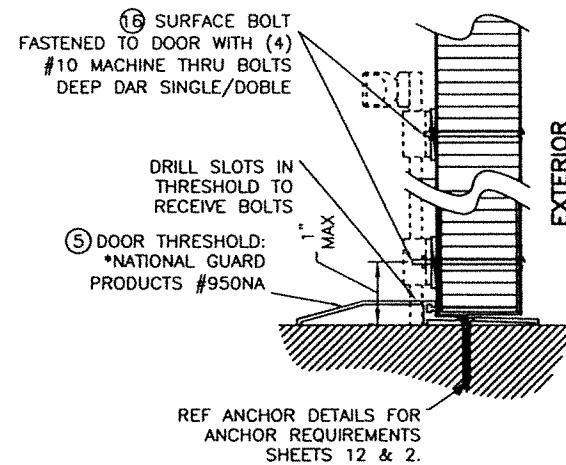


7 SINGLE DOOR LOCK STILE



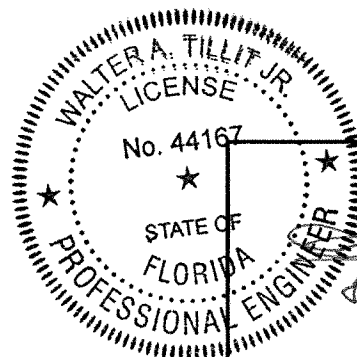
NOTE: THIS DETAIL IS APPLICABLE TO INSWING & OUTSWING DOORS (OUTSWING OPTION SHOWN)

4 DOOR HEAD
8 SCALE: 3"=1'0" VERT SECTION



NOTE: THIS DETAIL IS APPLICABLE TO INSWING & OUTSWING DOORS (OUTSWING OPTION SHOWN)

5 DOOR SILL
8 SCALE: 3"=1'0" VERT SECTION



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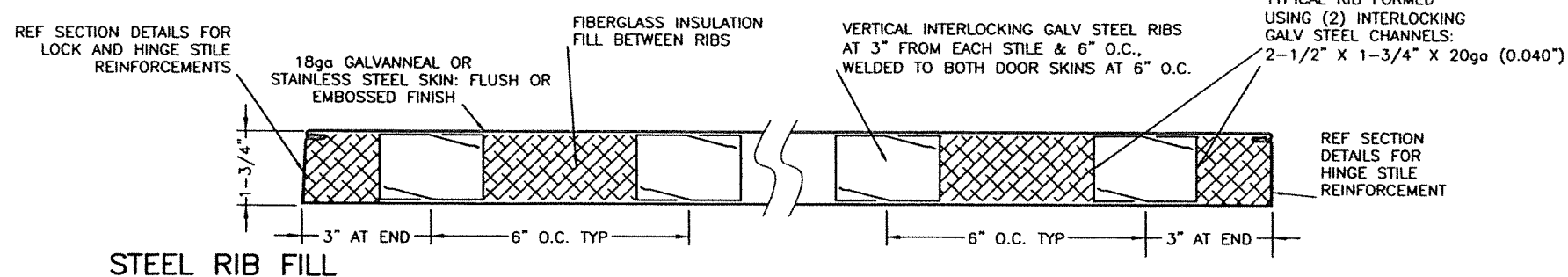
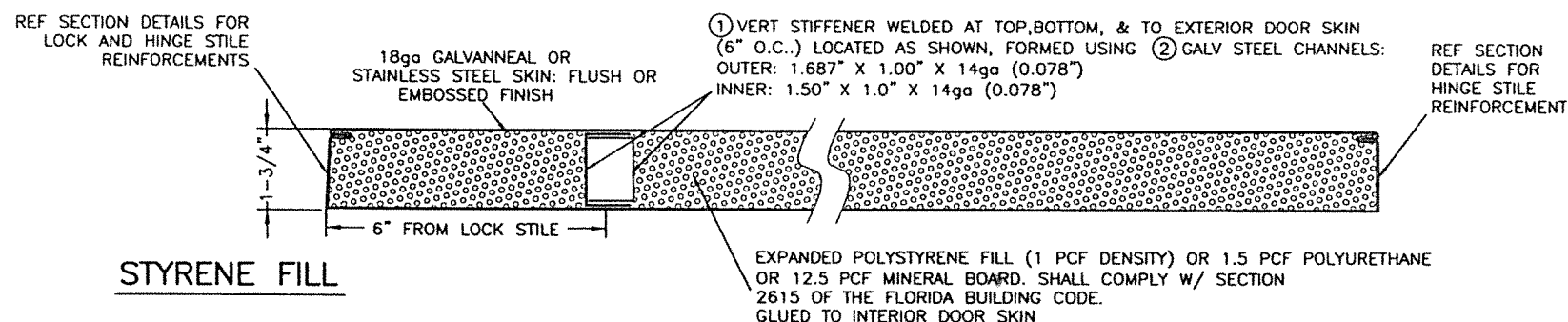
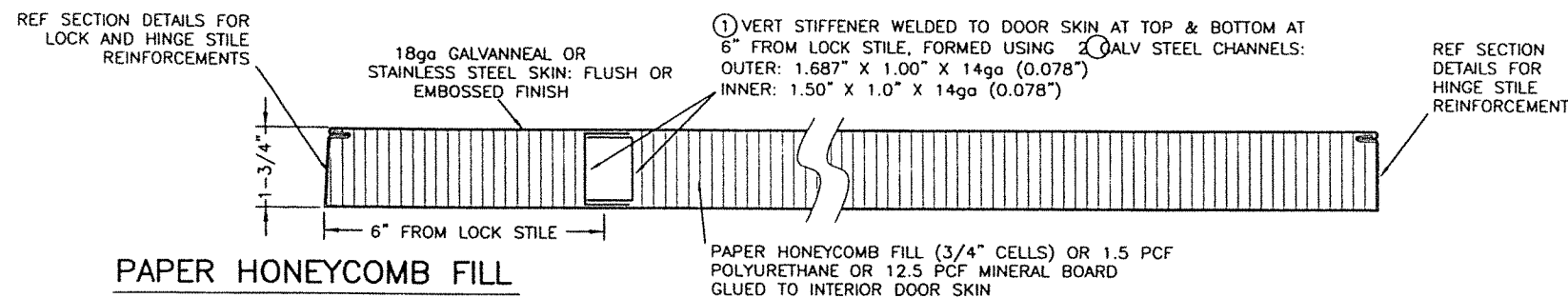
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DOUBLE & SINGLE COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR, FLUSH, EMBOSSED, W/ VISION LITE OR LOUVER KITS WITH SIDE LITES & TRANSOMS OF DIFFERENT INFILLS

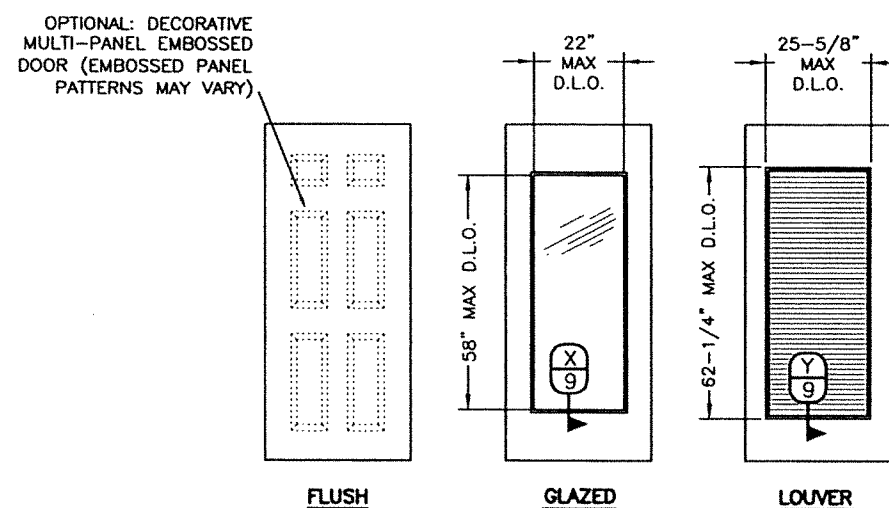
DAYBAR INDUSTRIES LTD
50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4
TEL: 905 625-8000
FAX: 905 625-4204

DRAWN BY: Y.M.
08/17/2023
DATE
23-177
DRAWING No

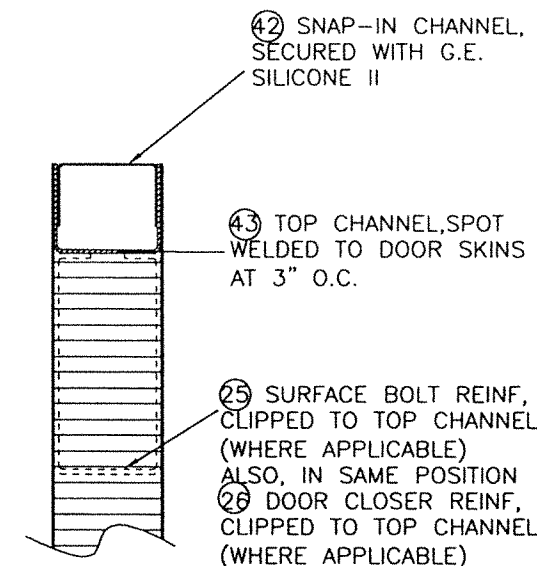
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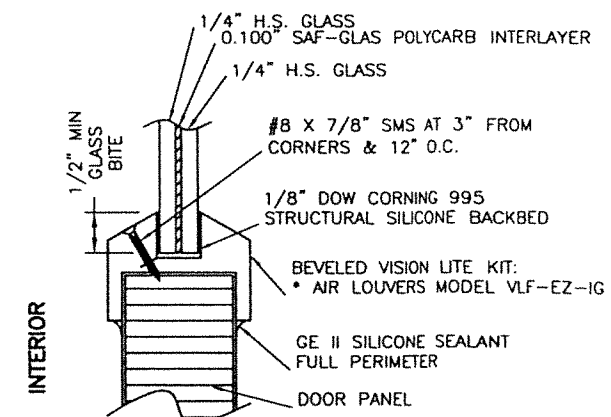
DOOR PANEL CONSTRUCTION OPTIONS (HORIZONTAL SECTIONS)



DOOR INFILL OPTIONS

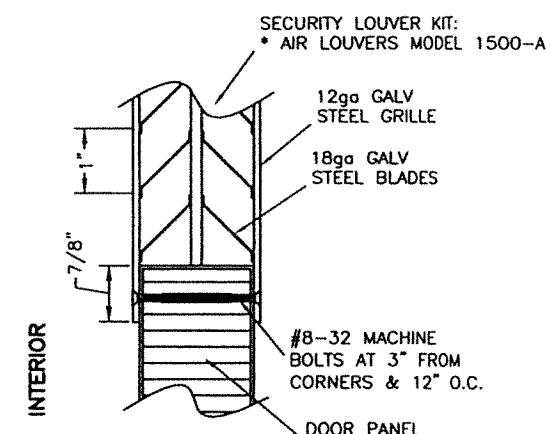


TYPICAL DOOR TOP & BOTTOM CONSTRUCTION (VERTICAL SECTION)



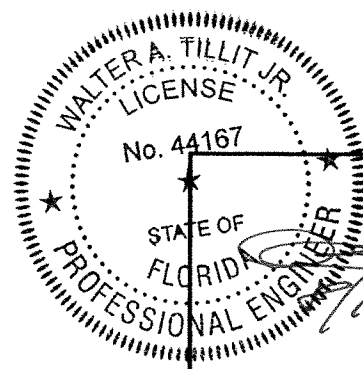
NOTE: THIS DETAIL IS APPLICABLE TO DOOR LITE HEAD, JAMBS, & SILL

X DOOR VISION LITE KIT



NOTE: THIS DETAIL IS APPLICABLE TO LOUVER HEAD & SILL (JAMBS SIMILAR)

Y DOOR LOUVER KIT



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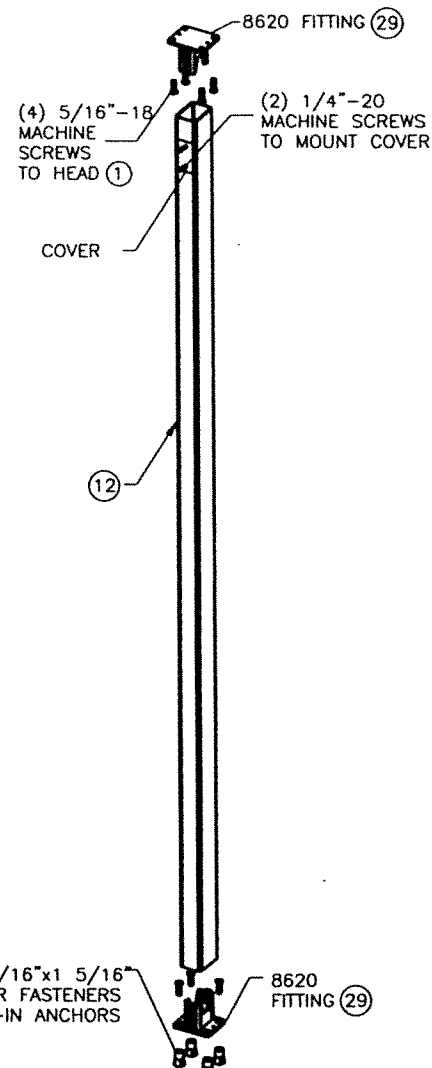
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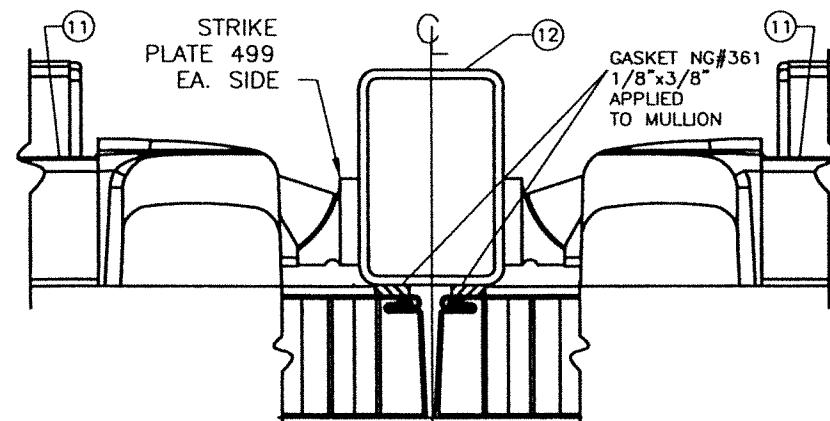
TILLIT TESTING & ENGINEERING COMPANY
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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

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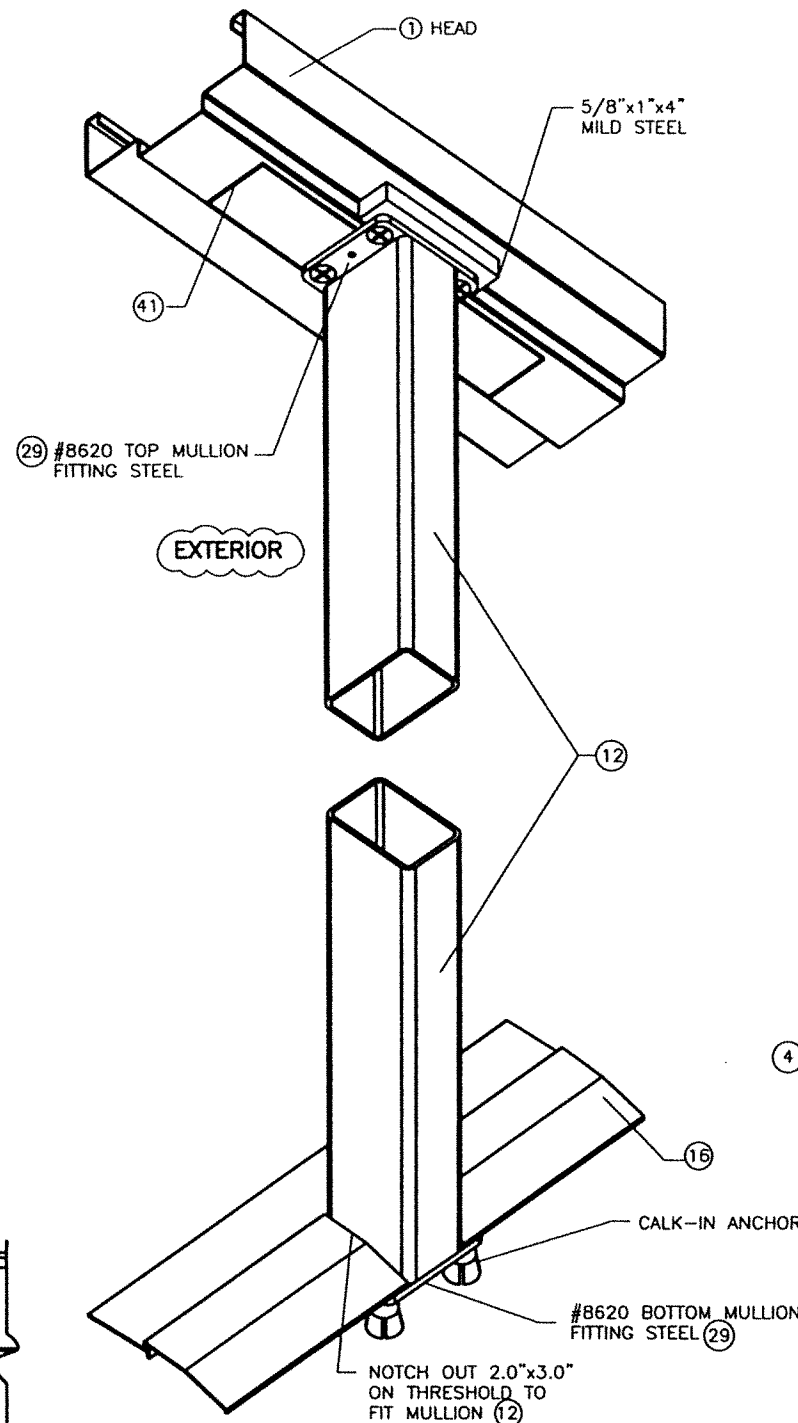
DOUBLE & SINGLE COMMERCIAL GALVANNEAL OR STAINLESS STEEL DOOR, FLUSH, EMBOSSED, W/ VISION LITE OR LOUVER KITS WITH SIDE LITES & TRANSOMS OF DIFFERENT INFILLS						DRAWN BY: Y.M.
DAYBAR INDUSTRIES LTD 50 WEST DRIVE, BRAMPTON, ON CANADA, L6T 2J4 TEL: 905 625-8000 FAX: 905 625-4204						08/17/2023 DATE
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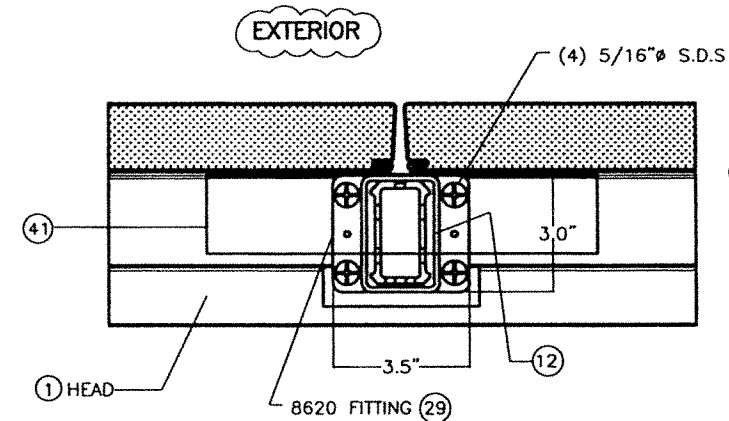
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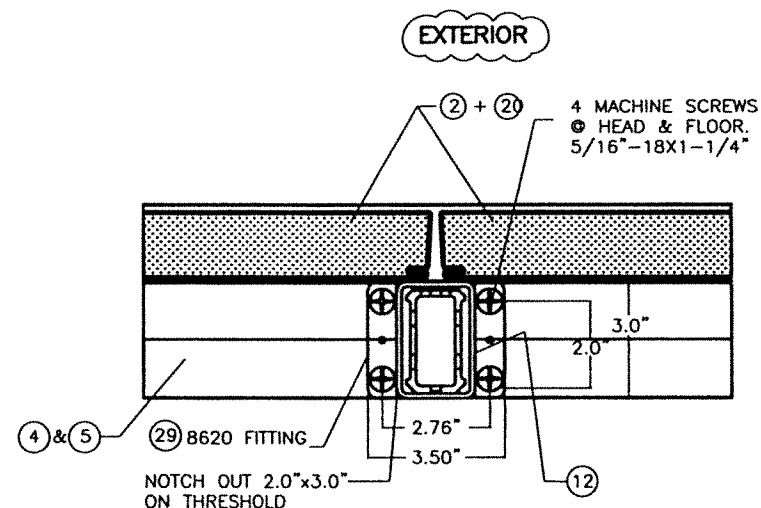
EXTERIOR
MULLION/DOOR SEAL



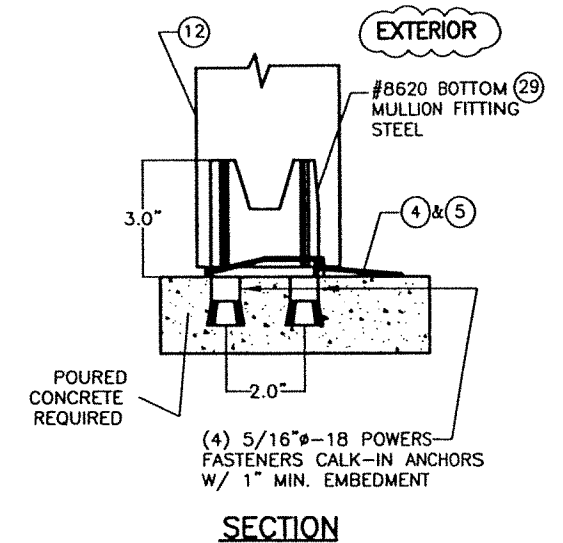
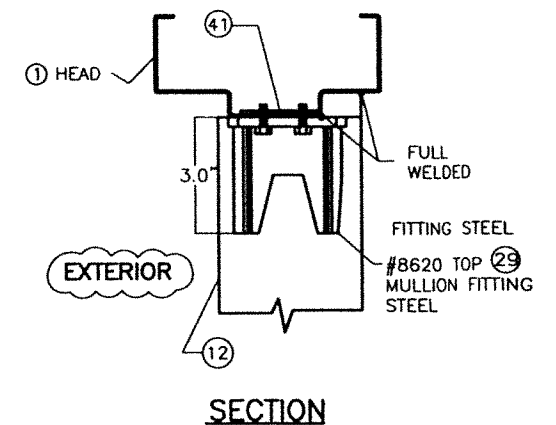
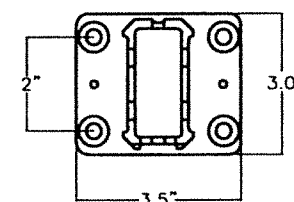
(12) VON DUPRIN SERIES 9954
(W/ 499 STRIKE PLATE)
MULLION INSTALLATION



CONNECTION AT TOP (PLAN)



CONNECTION AT BOTTOM (PLAN)



WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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e-mail: tilteco@aol.com
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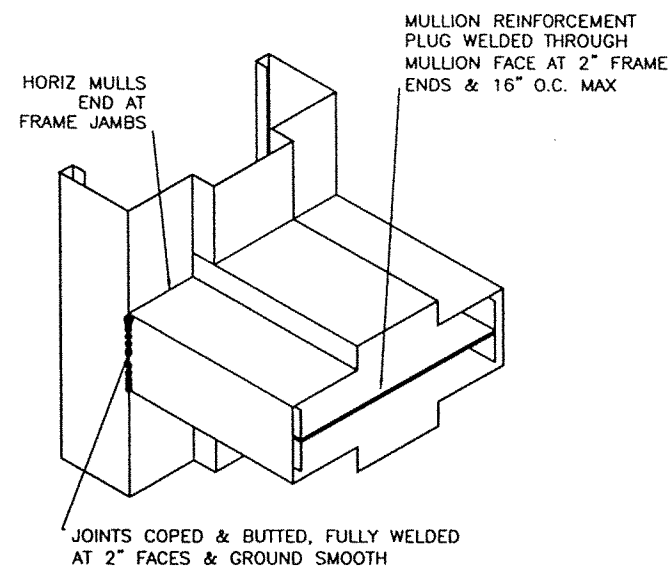
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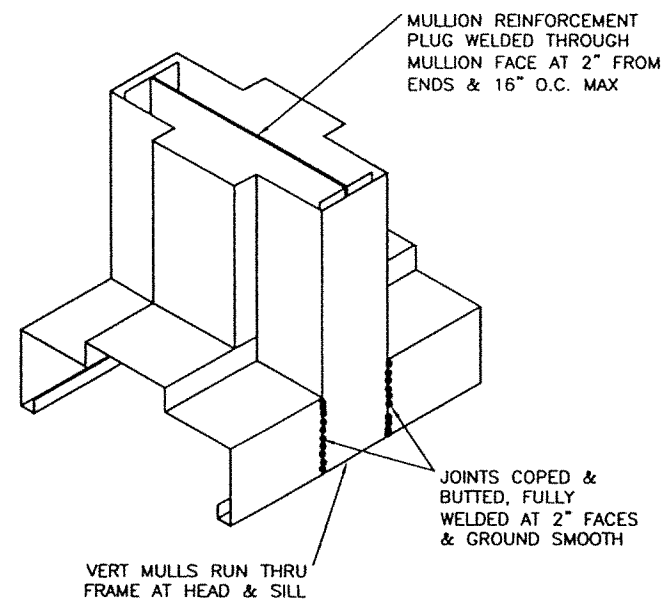
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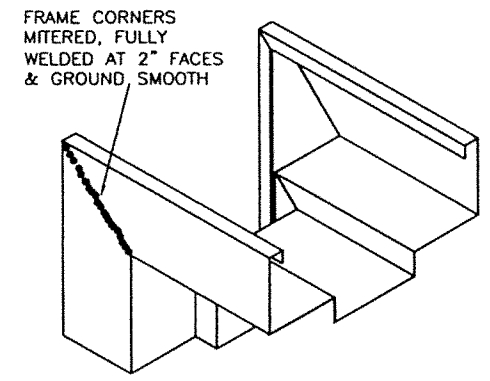
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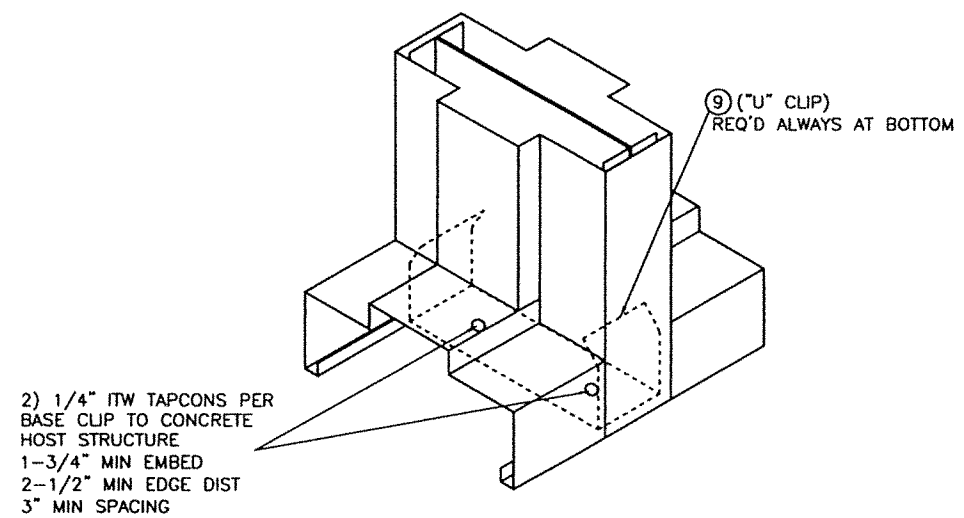
**FRAME CONSTRUCTION
AT HORIZONTAL MULLION**



**FRAME CONSTRUCTION
AT VERTICAL MULLION**



**FRAME CONSTRUCTION
AT FRAME CORNERS**



ISOMETRIC DETAIL N/11

VERTICAL MULLION CONNECTION DETAIL

WALTER A. TILLIT JR.
LICENSE
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P.E. SEAL/SIGNATURE/DATE
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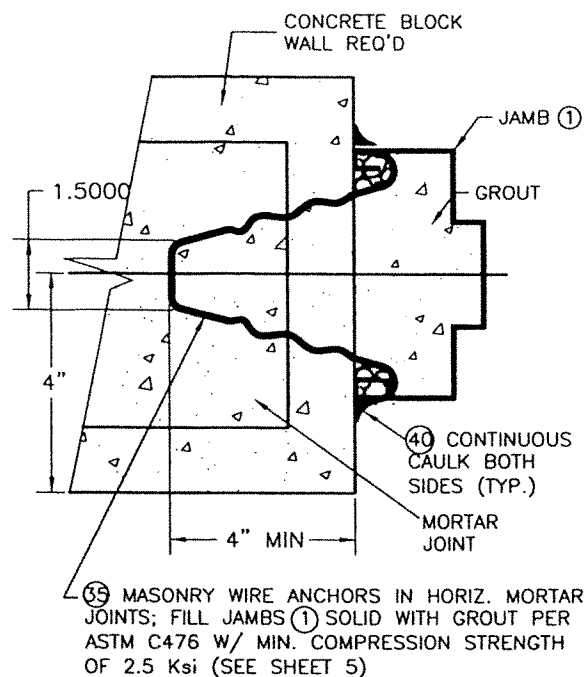
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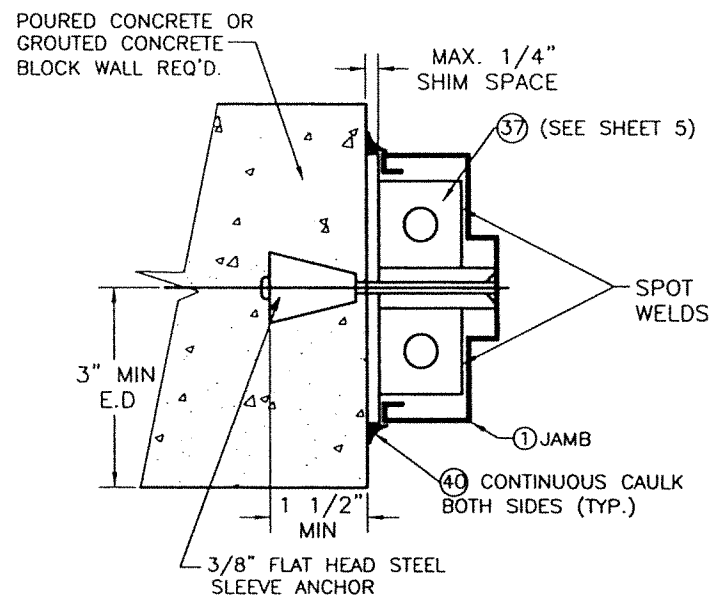
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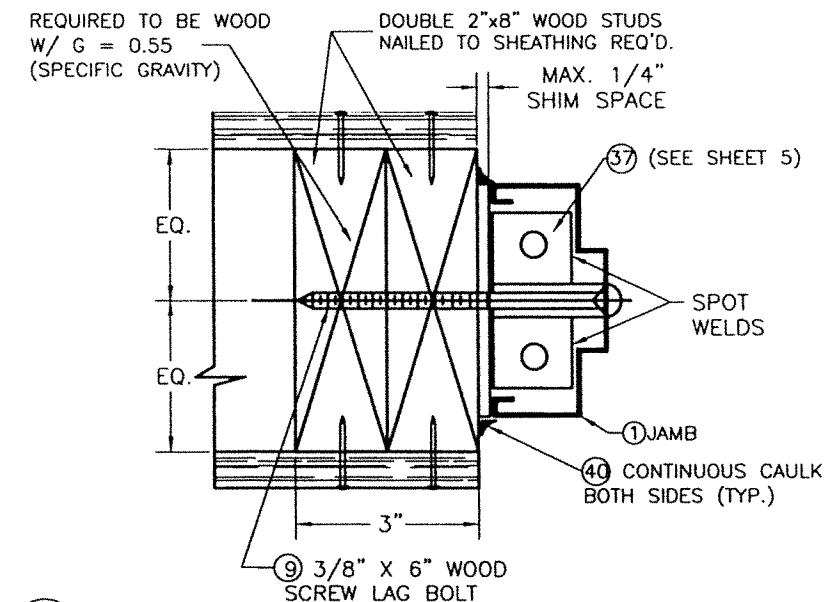
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1 WIRE ANCHOR (35) INSTALLATION TO MASONRY WALLS



2 INSTALLATION OF SLEEVE ANCHOR TO MASONRY WALLS



3 INSTALLATION OF 3/8 inch diameter LAG SCREW (9) TO WOOD FRAME WALLS

ANCHOR SCHEDULE

DETAIL	ANCHOR	SUBSTRATE	HEAD		SILL		JAMBS	
			CORNERS	SPACING	CORNERS	SPACING	CORNERS	SPACING
2/12	SLEEVE ANCHORS	CONC OR BLOCK	5"	11" OC	5"	11" OC	6"	10" OC
3/12	LAG SCREWS	WOOD	5"	10" OC	5"	10" OC	5"	10" OC
4/12	BOLT & NUT	STEEL	5"	11" OC	5"	11" OC	6"	10" OC
1/12	MASONRY WIRE	BLOCK	---	---	---	---	9"	16" OC
5/12	DIRECT WELD	STEEL	5"	11" OC	3"	8" OC	6"	10" OC
5/8	1/4 inch TAPCONS	CONCRETE OR WOOD	---	---	6"	12"	---	---

ANCHOR NOTES:

- SEE EXTERIOR ELEVATION & ANCHOR SCHEDULE FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- MINIMUM EMBEDMENT & EDGE DISTANCE SHALL BE AS NOTED
 - 3/8" RED HEAD DYNABOLT SLEEVE ANCHOR:
 - 1-1/2" MIN EMBED (CONCRETE OR GROUT-FILLED BLOCK)
 - 2-1/4" MIN EDGE DISTANCE
 - 3/8" HILTI HLC SLEEVE ANCHOR:
 - 1-1/4" MIN EMBED (CONCRETE OR GROUT-FILLED BLOCK)
 - 4" MIN EDGE DISTANCE
 - 3/8" LAG SCREWS:
 - 2" MIN EMBED (SYP WOOD, G=0.55)
 - 1-1/2" MIN EDGE DISTANCE
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.

- CONCRETE HOST STRUCTURE SHALL HAVE 3,000 PSI MIN COMPRESSIVE STRENGTH.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD (U.N.O.).
- "STEEL" SUBSTRATE SHALL HAVE 18ga (0.048") MIN THICKNESS.
- MACHINE SCREWS USED WITH SLEEVE ANCHORS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR.
- MASONRY WIRE ANCHORS ARE ONLY APPLICABLE AT JAMBS - ANCHORS SHALL BE INSTALLED AT HEAD & SILL USING ONE OF THE OTHER LISTED ANCHOR OPTIONS.
- FOR THRESHOLD USE 1/4" TAPCON W/ 1 3/4" EMBEDMENT BY ITW/BUILDEX OR ELCO CONSTRUCTION PRODUCT W/ 2 1/2" MIN. EDGE DISTANCE.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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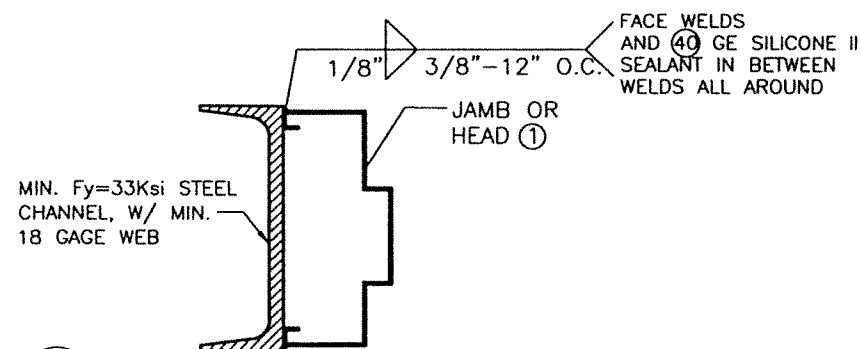
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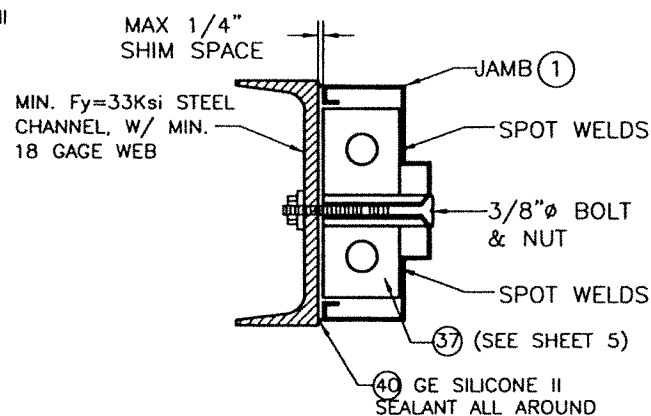
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SHEET 12 OF 12

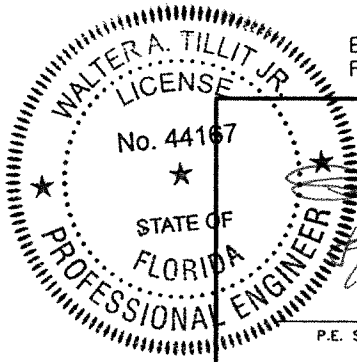


4 INSTALLATION OF JAMB (1) TO STEEL CHANNEL THRU WELDING



5 INSTALLATION OF 3/8 inch F.H. M.S. TO STEEL CHANNEL

ANCHOR DETAILS:



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