

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. FOR INSTALLATION INTO WOOD FRAMING USE 3/8 INCH LAG SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FOR INSTALLATION DIRECTLY INTO CONCRETE/MASONRY, SEE TABLES A-C (SHEET 5) FOR MINIMUM DIAMETER AND MINIMUM EMBEDMENT INFO.
7. FOR INSTALLATION THROUGH STEEL STUD, USE 3/8 INCH DIAMETER STEEL BOLTS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF THREE (3) THREADS OF PENETRATION BEYOND STEEL STRUCTURE.
8. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
9. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 10.FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 11.INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- 12.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. GROUT-FILLED CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 & GROUT CONFORMS TO ASTM C 476. GROUT SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. SEE FBC CH. 21 FOR GROUTED MASONRY REQUIREMENTS.

D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 118 MILS (11 GAUGE)

BP-GLASS GARAGE DOORS &
ENTRY SYSTEMS, INC.

BP-350/450 HD GLASS GARAGE DOOR (U.S. PAT.)
(HVHZ) (IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

TAS 201-94

TAS 202-94

TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 4X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 4X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: ALUMINUM 6005-T5
7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT EDITION FBC.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.
9. EPDM GLAZING GASKET HAS BEEN TESTED IN ACCORDANCE WITH FBC CH. 24.
10. BP HURRICANE SYSTEM IS PATENTED IN THE USA.

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5	ANCHOR TABLES & BRACKET DETAIL
6	BILL OF MATERIALS & COMPONENTS
7	COMPONENTS

DESIGN PRESSURE RATING	
DESIGN PRESSURE - ALL SIZES	MISSILE IMPACT RATING
+65.0 / -65.0 PSF*	SMALL AND LARGE MISSILE IMPACT RATED

*REMOVABLE REINFORCEMENT REQUIRED



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INSTALLATION
& GENERAL NOTES



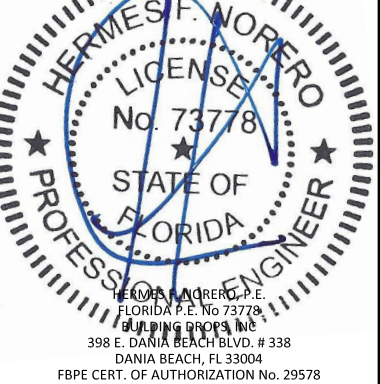
PREPARED BY:
BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.08.13 13:26:06 -0400'



FL #:
FL13380

DATE: **07.29.22**

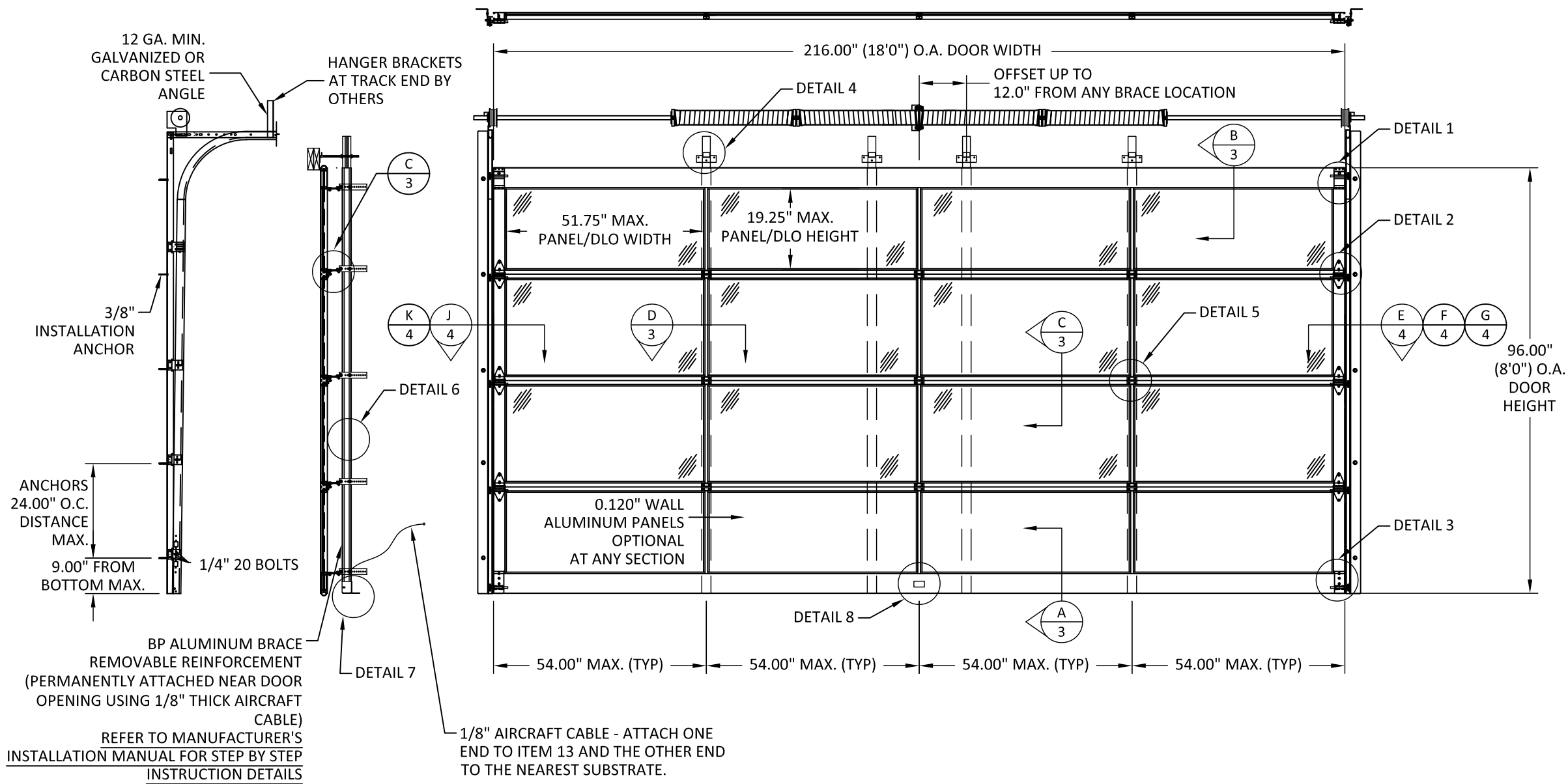
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SCALE: **NTS**

DWG. #: **BPC006**

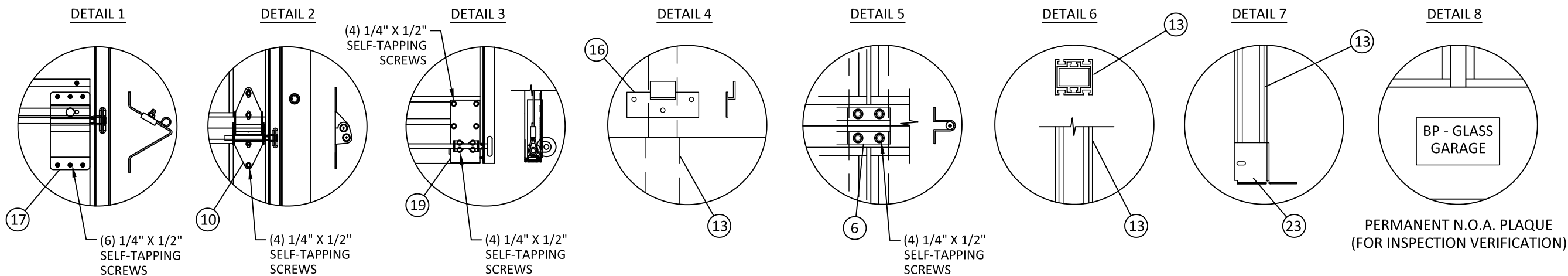
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OF 7

s:\projects\bp glass garage doors & entry systems inc\lbc-22-0749.1 - lbc submittal - fl13380 series 350-450 - glass-aluminum garage door revision to include series 550\dwg\lbc006.dwg 8/3/2022 9:31 AM



ANCHOR LAYOUT

INTERIOR ELEVATION



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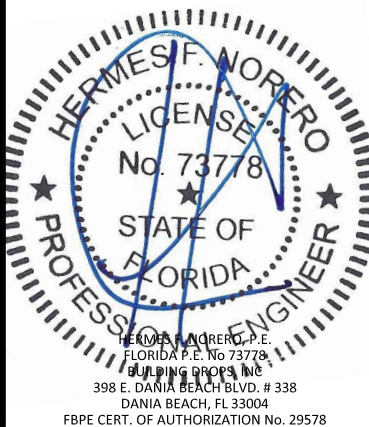
ELEVATION, ANCHOR
LAYOUT, & DETAILS

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SHEET:

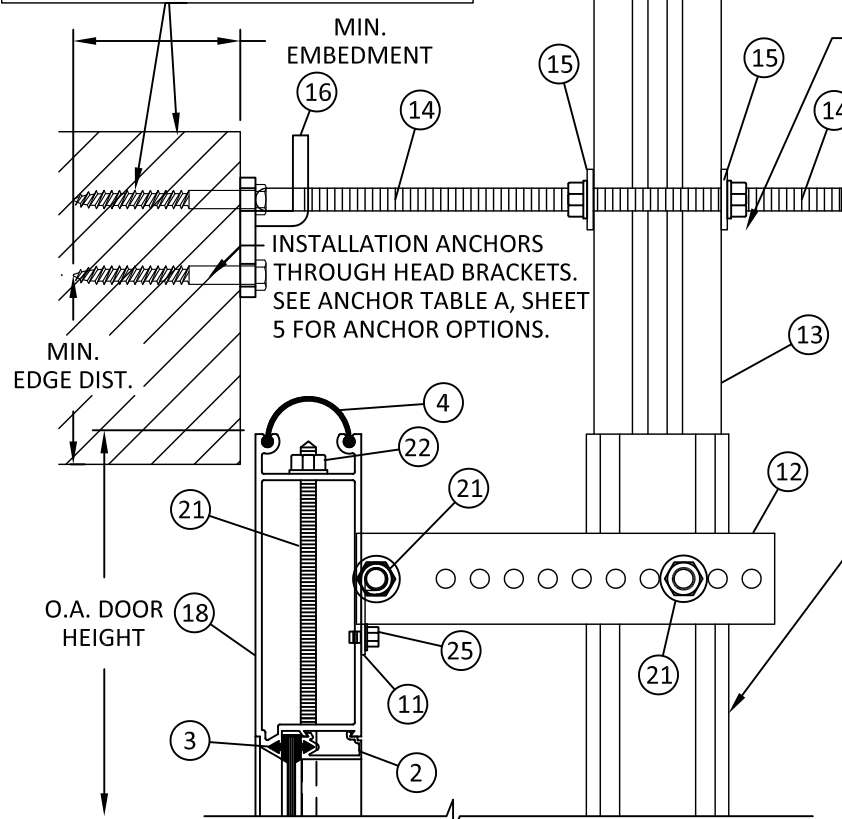
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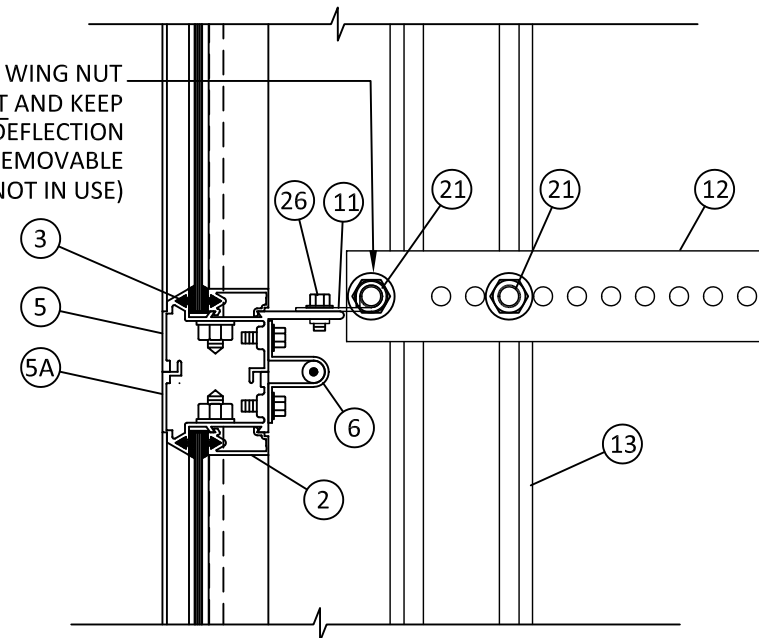
NOTE: HEADER DETAIL CAN MATCH ANY OF THE JAMB AND/OR ANCHOR TYPES ON 4 OF 7.



ITEM 14 AND 15 ARE ADJUSTED IN PLACE DURING FIRST INSTALLMENT, THEN REMAIN PERMANENTLY ATTACHED TO ITEM 13 THEREAFTER

REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR STEP BY STEP INSTRUCTION DETAILS ON REMOVABLE REINFORCEMENT

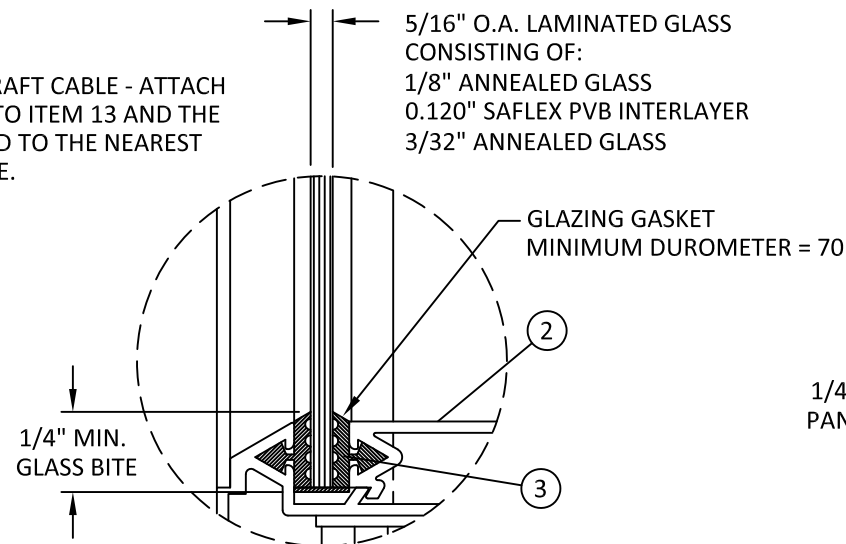
ITEM 21 - THROUGH BOLT WITH WING NUT (SCREW IN FINGER TIGHT AND KEEP ATTACHED TO ITEM 12 DEFLECTION BRACKETS WHEN REMOVABLE REINFORCEMENT IS NOT IN USE)



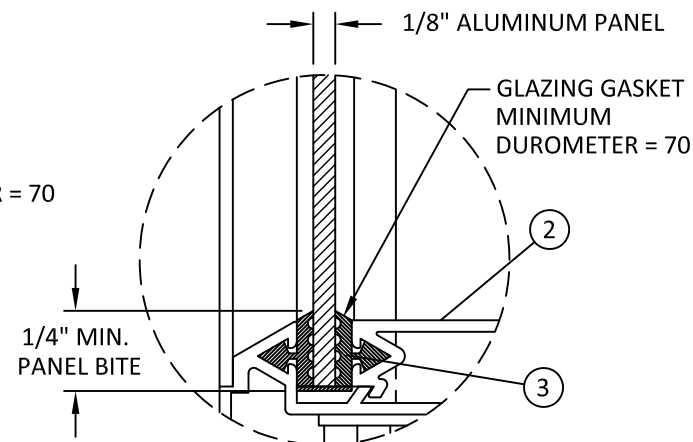
C
3 VERTICAL SECTION
INTERMEDIATE RAIL

1/8" AIRCRAFT CABLE - ATTACH ONE END TO ITEM 13 AND THE OTHER END TO THE NEAREST SUBSTRATE.

5/16" O.A. LAMINATED GLASS CONSISTING OF:
1/8" ANNEALED GLASS
0.120" SAFLEX PVB INTERLAYER
3/32" ANNEALED GLASS

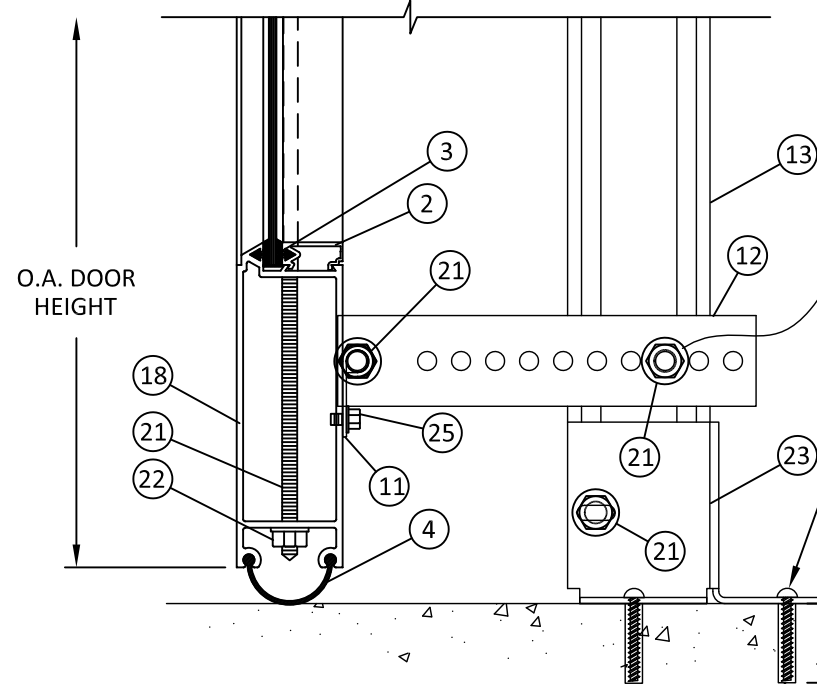


GLAZING DETAIL



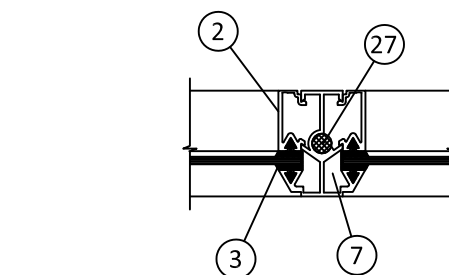
PANEL DETAIL

B
3 VERTICAL SECTION
TOP RAIL



3 ANCHORS PER BOTTOM BRACKET REQUIRED (SCREW IN FINGER TIGHT AND KEEP IN PLACE WHEN REMOVABLE REINFORCEMENT IS NOT IN USE TO KEEP HOLES FREE FROM DIRT AND DEBRIS) SEE ANCHOR TABLE B, SHEET 5 FOR ANCHOR OPTIONS.

A
3 VERTICAL SECTION
BOTTOM RAIL



D
3 HORIZONTAL SECTION
VERTICAL MULLION



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VERTICAL, HORIZONTAL
SECTIONS & GLAZING DETAILS

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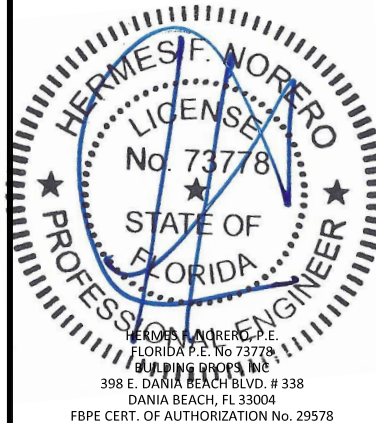
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SHEET:	3



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HORIZONTAL SECTIONS

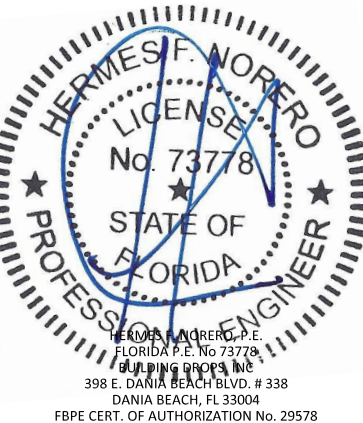
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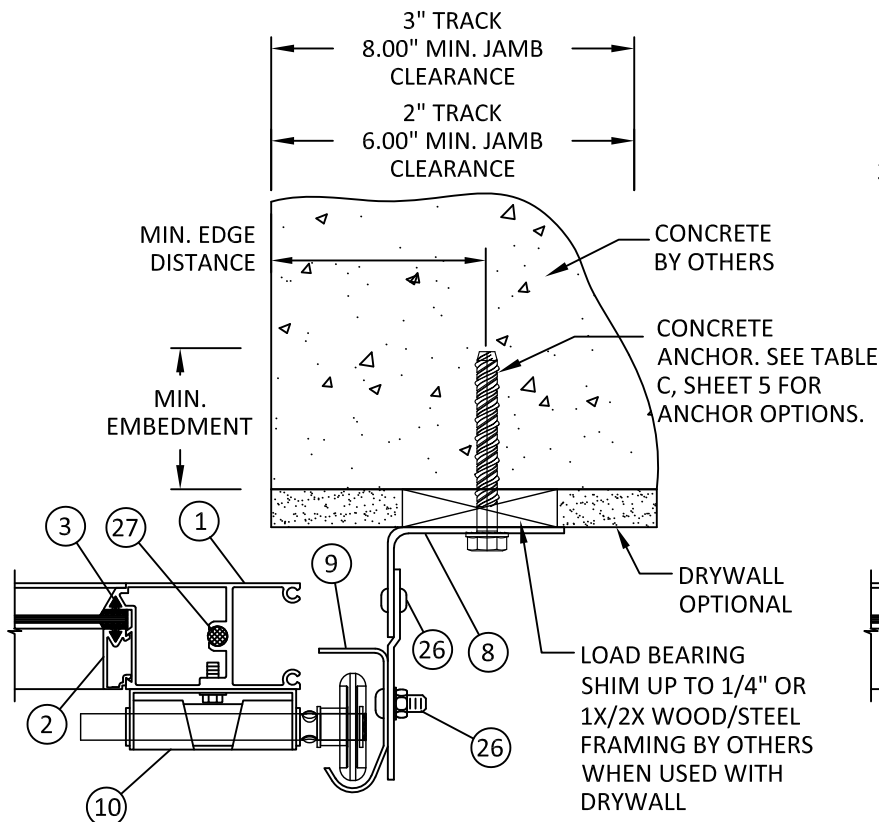


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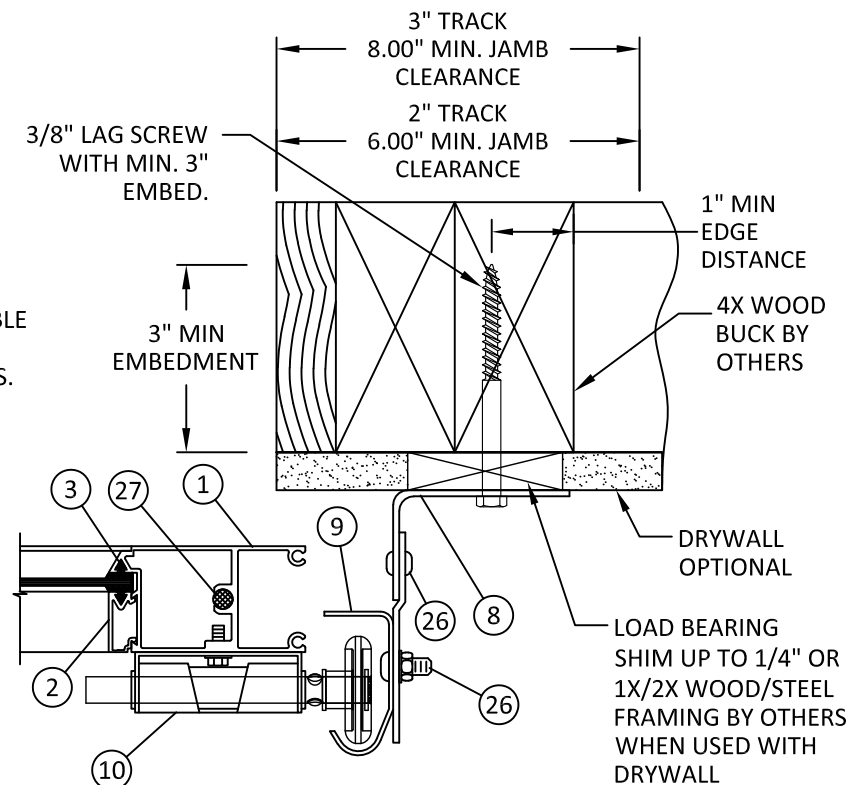
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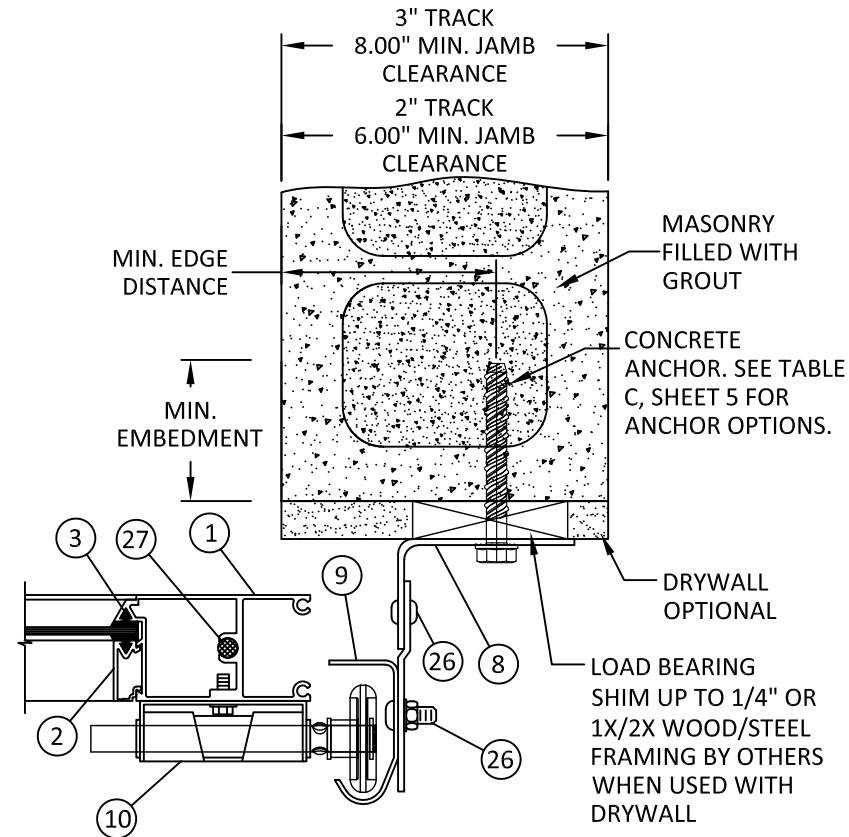
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SHEET:	4



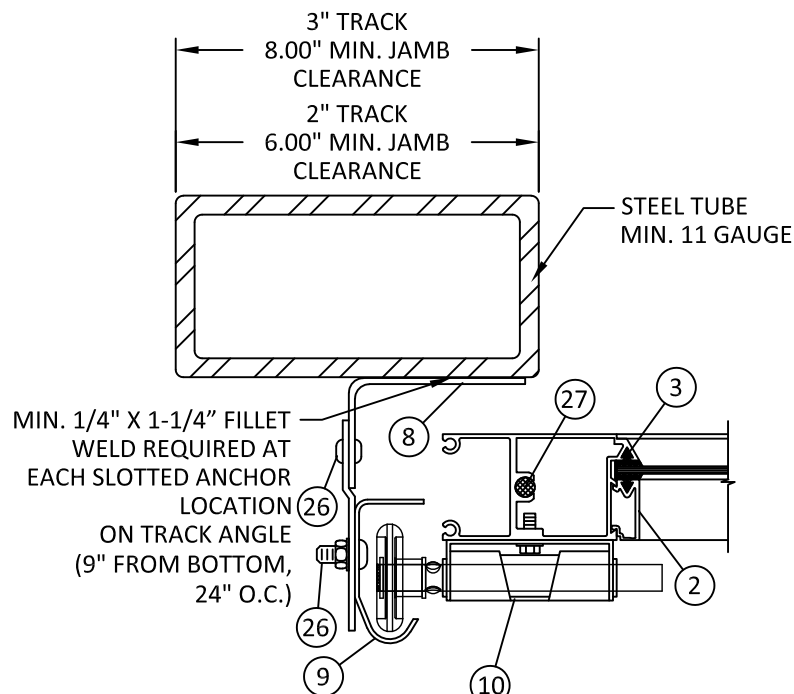
E HORIZONTAL SECTION
4 JAMBS - DRYWALL OVER CONCRETE
ANGLE MOUNTED



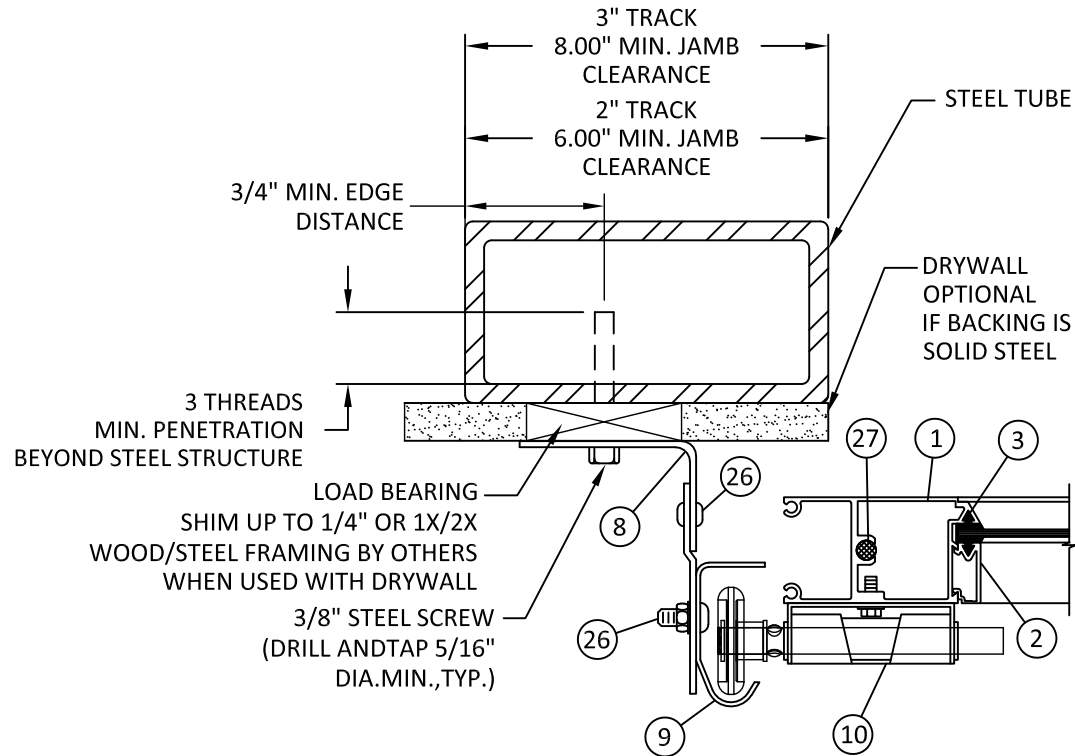
F HORIZONTAL SECTION
4 JAMBS - DRYWALL OVER 4X WOOD FRAME
ANGLE MOUNTED



G HORIZONTAL SECTION
4 JAMBS - DRYWALL OVER CMU
ANGLE MOUNTED



J HORIZONTAL SECTION
4 JAMBS - STEEL
REVERSE ANGLE MOUNTED

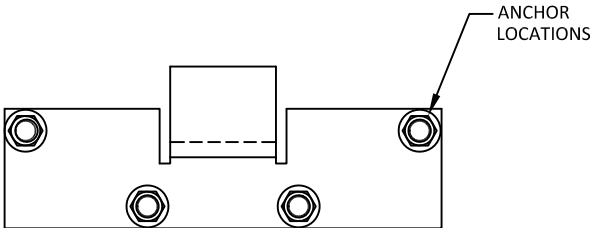


K HORIZONTAL SECTION
4 JAMBS - STEEL W/ DRYWALL
ANGLE MOUNTED

Type	Anchor	Substrate	Embedment	Edge Distance	C.C. Distance
Epoxy	3/8" ITW Redhead A7	2000 psi concrete	3 3/8"	3 1/2"	6 1/2"
	3/8" Simpson AT	2000 psi concrete	1 3/4"	3"	6 1/2"
	3/8" Hilti HY150 MAX	2000 psi concrete	1 3/4"	3"	6 1/2"
Expansion	3/8" Hilti Kwik Bolt 3	3000 psi concrete	2 1/2"	3 1/2"	6 1/2"
	3/8" Hilti Kwik Bolt 3	grout filled CMU	2 1/2"	3 1/2"	6 1/2"
	3/8" ITW Redhead Wedge	2000 psi concrete	3"	3"	6 1/2"
	3/8" Powers Bolt Expansion	3000 psi concrete	2 1/2"	3 1/2"	6 1/2"
Tapcon/ Wedge Bolts	3/8" Redhead LDT	3000 psi concrete	2 1/2"	2"	6 1/2"
	3/8" Redhead LDT	grout filled CMU	2 1/2"	3 1/2"	6 1/2"
	3/8" Powers Wedge	2000 psi concrete	2 1/2"	3"	6 1/2"
	3/8" Powers Wedge	grout filled CMU	2 1/2"	3 1/2"	6 1/2"
	3/8" Simpson Titen HD	3000 psi concrete	2 3/4"	3 1/2"	6 1/2"
	3/8" Hilti Kwik HUS-EZ	3000 psi concrete	2 1/2"	3"	6 1/2"
	3/8" Hilti Kwik HUS-EZ	grout filled CMU	1 5/8"	4"	6 1/2"
Lag Screw	3/8" Lag Screw	Wood (min S.G. = 0.55)	3"	1"	2 1/4"
Bolt	3/8" Steel Bolt	Steel (118 mils min. wall thickness)	3 threads penetration beyond steel structure	3/4"	2 1/4"

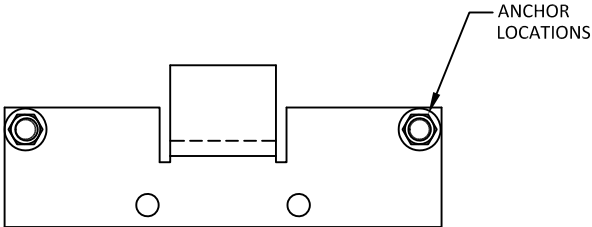
- ALL ANCHOR TYPES LISTED ABOVE VALID FOR MIN. SPECIFIED SUBSTRATE OR GREATER
- ANCHOR OPTION MUST MEET MINIMUM EMBEDMENT, EDGE DISTANCE, AND C.C. DISTANCE SPECIFIED
- ANCHORAGE AT BRACKET MUST CONFORM TO APPLICABLE BRACKET DETAIL BELOW

ANCHOR TABLE A - HEADER



BRACKET ANCHOR LOCATIONS FOR INSTALLATION INTO WOOD FRAME OR STEEL SUBSTRATE

BRACKET DETAIL A
(WOOD/STEEL INSTALLATION)



BRACKET ANCHOR LOCATIONS FOR INSTALLATION INTO CONCRETE OR CMU

BRACKET DETAIL B
(CONCRETE/CMU INSTALLATION)

Type	Anchor	Substrate	Embedment	Edge Distance
Drop-In	3/8" Hilti HDI	2000 psi concrete	1 9/16"	3 1/8"
	3/8" ITW Redhead	2000 psi concrete	1 5/8"	2 7/8"
	3/8" Powers Smart DI+	3000 psi concrete	1 9/16"	4 1/2"

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- ANCHOR OPTION MUST MEET MINIMUM EMBEDMENT AND EDGE DISTANCE SPECIFIED

ANCHOR TABLE B - SILL

Type	Anchor	Substrate	Embedment	Edge Distance
Drop-In	3/8" Hilti HDI	2000 psi concrete	1 9/16"	3 1/2"
	3/8" ITW Redhead	2000 psi concrete	1 5/8"	2 7/8"
	3/8" Powers Smart DI+	3000 psi concrete	1 9/16"	3 1/2"
Epoxy	3/8" ITW Redhead A7	2000 psi concrete	3 3/8"	3 1/2"
	3/8" Simpson AT	2000 psi concrete	1 3/4"	3"
	3/8" Hilti HY150 MAX	2000 psi concrete	1 3/4"	3"
Expansion	3/8" Hilti Kwik Bolt 3	3000 psi concrete	2 1/2"	3 1/2"
	3/8" Hilti Kwik Bolt 3	grout filled CMU	2 1/2"	3 1/2"
	3/8" ITW Redhead Wedge	2000 psi concrete	3"	3"
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	3/8" Redhead LDT	grout filled CMU	1 1/2"	3 1/2"
	3/8" Powers Wedge	2000 psi concrete	2 1/2"	3"
	3/8" Powers Wedge	grout filled CMU	2 1/2"	3 1/2"
	3/8" Hilti Kwik HUS-EZ	3000 psi concrete	2 1/2"	3"
	3/8" Hilti Kwik HUS-EZ	grout filled CMU	1 5/8"	4"
Lag Screw	3/8" Lag Screw	Wood (min S.G. = 0.55)	3"	1"
Bolt	3/8" Steel Bolt	Steel (118 mils min. wall thickness)	3 threads penetration beyond steel structure	3/4"

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ANCHOR TABLE C - TRACK



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ANCHOR TABLES
& BRACKET DETAIL

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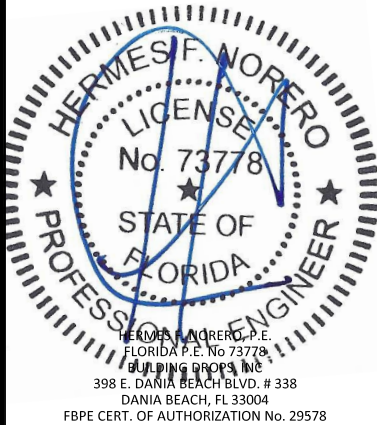
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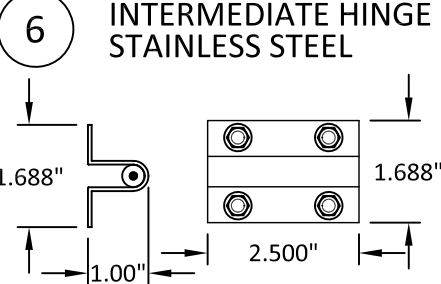
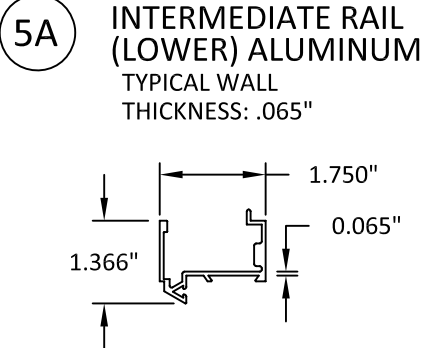
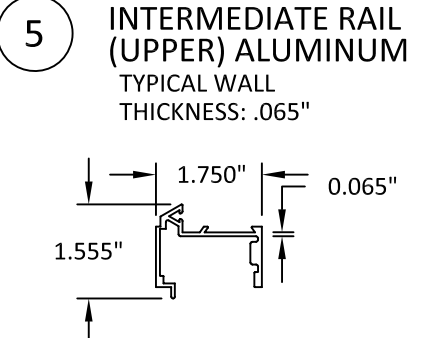
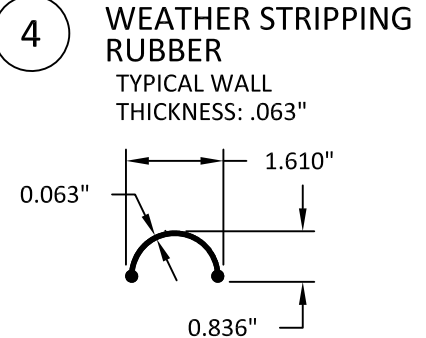
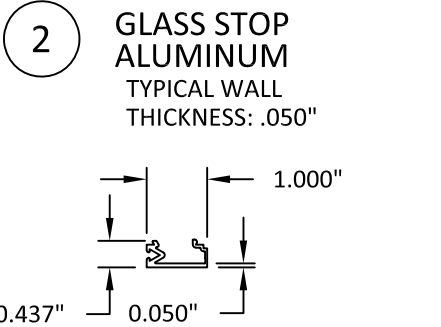
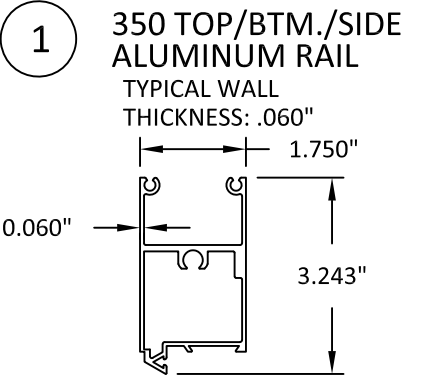
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SHEET:	

BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	350 TOP/BTM./SIDE FRAME RAIL	ALUMINUM	BP GLASS DOORS
2	GLASS STOP	ALUMINUM	BP GLASS DOORS
3	GLAZING GASKET	EPDM	GLS
4	WEATHERSTRIPPING	EPDM	GLS
5	INTERMEDIATE RAIL (UPPER)	ALUMINUM	BP GLASS DOORS
5A	INTERMEDIATE RAIL (LOWER)	ALUMINUM	BP GLASS DOORS
6	INTERMEDIATE HINGE	14 GA. STAINLESS STEEL	BP GLASS DOORS
7	VERTICAL MULLION	ALUMINUM	BP GLASS DOORS
8	ANGLE	14 GA. STEEL	BP GLASS DOORS
9	TRACK 2"	15 GA. STEEL	BP GLASS DOORS
10	UNIVERSAL HINGES #1-#9	12 GA. STAINLESS STEEL	BP GLASS DOORS
11	HF-PIN BRACKET	12 GA. STAINLESS STEEL	BP GLASS DOORS
12	DEFLECTION BRACKET	11 GA. GALV. STEEL	BP GLASS DOORS
13	REMOVABLE REINFORCEMENT	ALUMINUM	BP GLASS DOORS
14	3/8" U-BOLT & LOCK NUTS	STEEL	BP GLASS DOORS
15	U-BOLT PLATES	12 GA. GALV. STEEL	BP GLASS DOORS
16	TOP BRACKET	1/4" STEEL	BP GLASS DOORS
17	TOP FIXTURE	12 GA. STAINLESS STEEL	BP GLASS DOORS
18	350/450 TOP AND BOTTOM RAIL	ALUMINUM	BP GLASS DOORS
19	BOTTOM FIXTURE	12 GA. STAINLESS STEEL	BP GLASS DOORS
20	3/8" DROP IN CONCRETE ANCHOR	STEEL	BP GLASS DOORS
21	1/4" - 20 HEX BOLT & NUTS	STEEL	BP GLASS DOORS
22	1/4" NUT	STEEL	BP GLASS DOORS
23	FLOOR FLANGE	12 GA. GALV. STEEL	BP GLASS DOORS
24	3/8" X 3" LAG BOLT	STEEL	BP GLASS DOORS
25	1/4" X 1/2" SELF THREADING SCREW	STEEL	BP GLASS DOORS
26	1/4" X 1/2" CARRIAGE BOLT	STEEL	BP GLASS DOORS
27	1/4" X 20 GALV. THRU BOLT W/ NUT	STEEL	BP GLASS DOORS





BP-GLASS GARAGE DOORS & ENTRY SYSTEMS, INC.
1511 W. 2ND ST.
POMONA, CA 91766
PH: (626) 442-1716 FX: (626) 579-5320
www.GlassGarageDoors.com

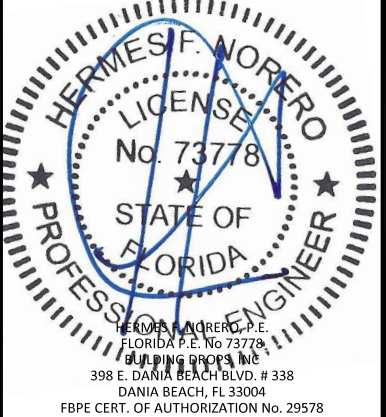
TITLE: BP-350/450 HD GLASS GARAGE DOOR (U.S. PAT.) - (HVHZ) (IMPACT)

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL13380

DATE: **07.29.22**

DWG. BY:
MS

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **BPC006**

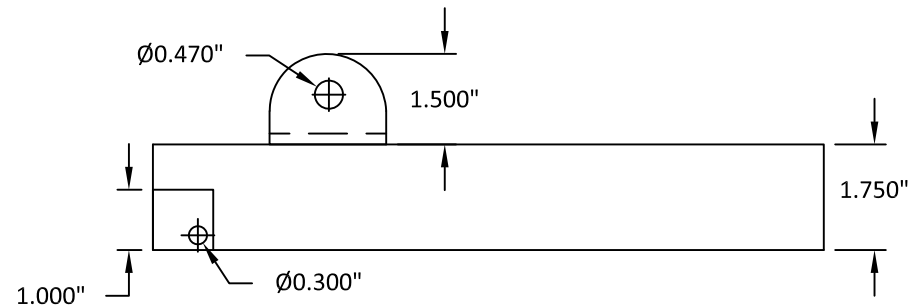
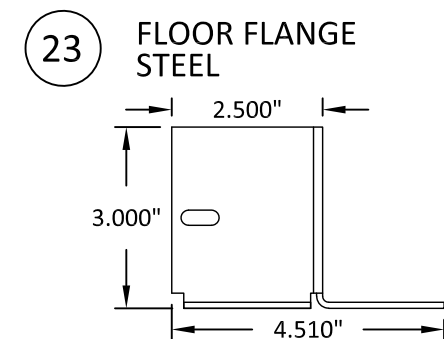
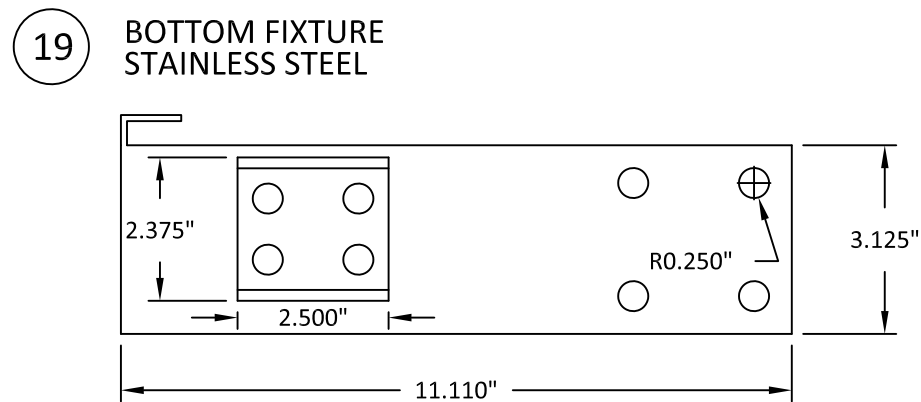
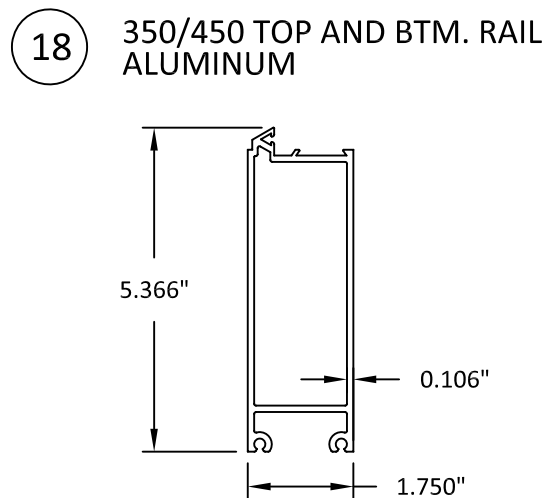
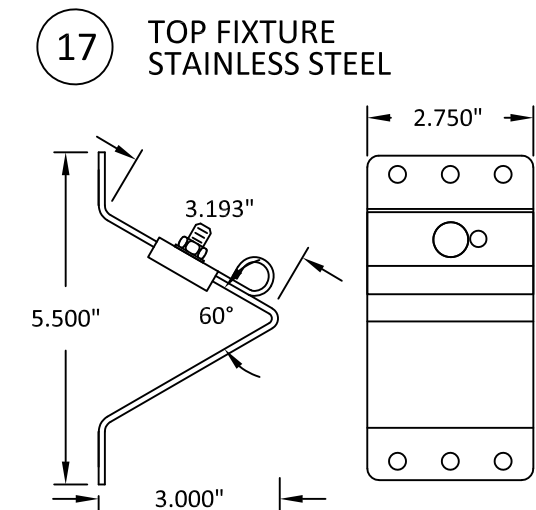
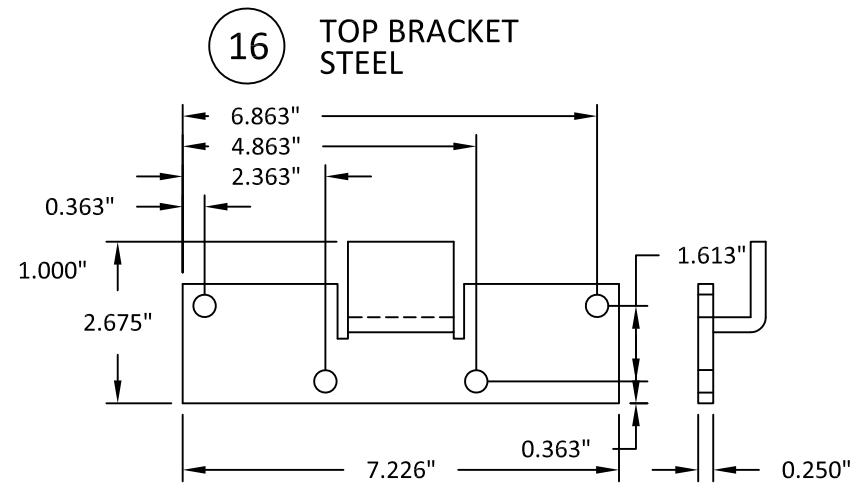
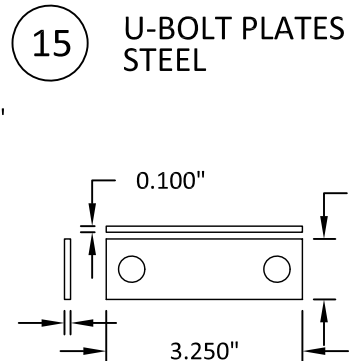
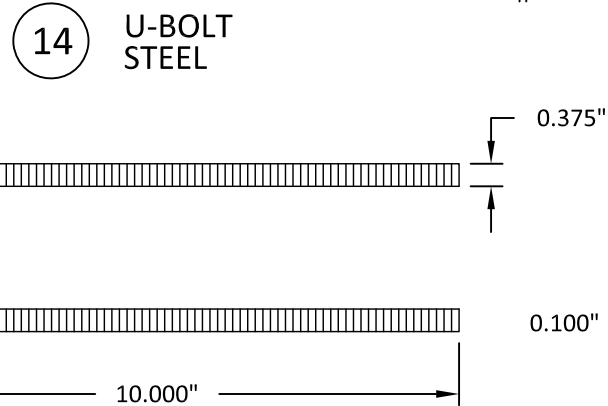
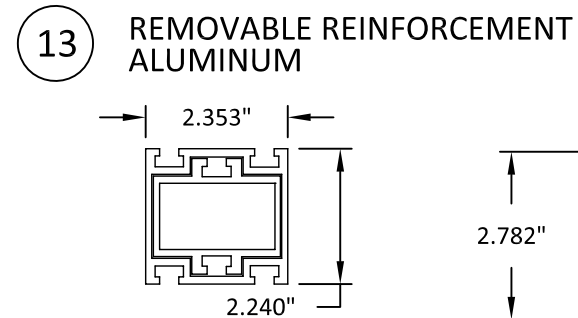
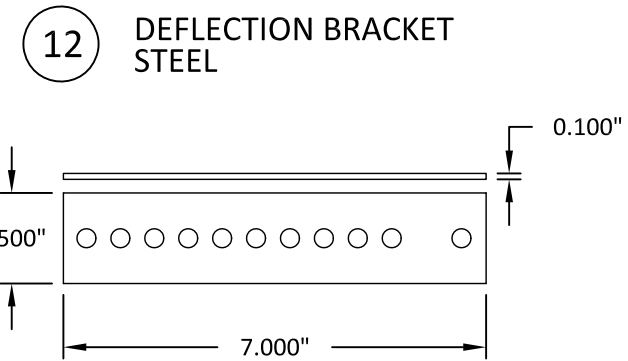
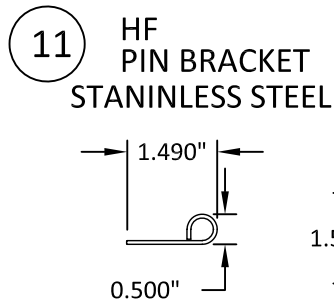
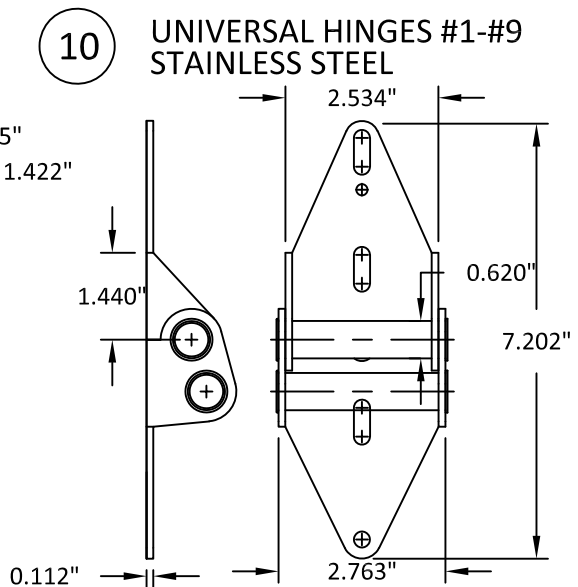
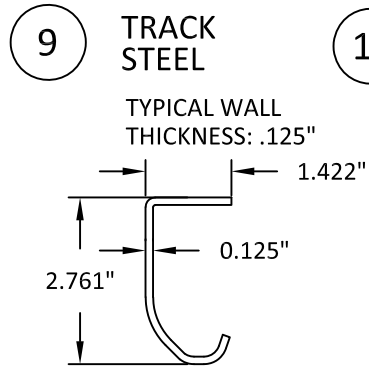
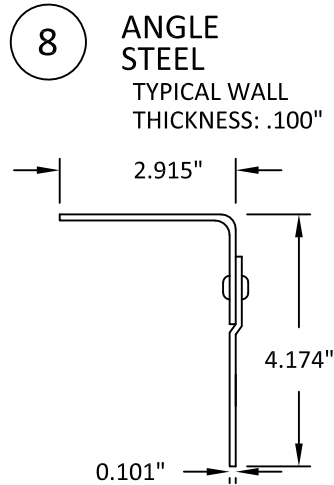
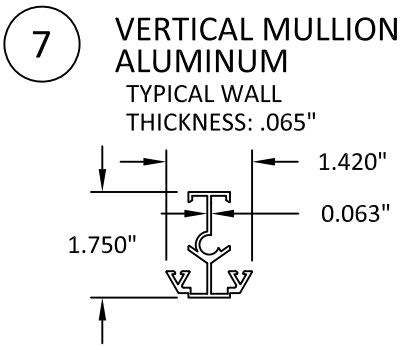
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