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ADDITIONAL DETAILS:	
FOR SPECIAL SITE CONDITION, CONTACT AA IMPACT GARAGE DOOR, INC.	
TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.	

GENERAL NOTES

1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS 201/202/203.
2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.
3. THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).
4. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.
5. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.
6. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.

7. THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.
8. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).
9. THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.
10. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (fu = 74,000 PSI).
11. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.

12. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.
13. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
14. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
15. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:
AA IMPACT GARAGE DOOR, INC.
2235 W 10TH CT,
HIALEAH, FL 33010

FLORIDA PRODUCT APPROVAL FL# 46870.2
THIS PRODUCT IS APPROVED FOR IMPACT RESISTANT LEVEL 'D'

FL# 46870.2

ALUMINUM & GLASS
SECTIONAL GARAGE DOOR
16'-2" (194") MAX. WIDTH
(LARGE MISSILE IMPACT)



JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
contact@ja-pe.com

ALUM/GLASS SECTIONAL GARAGE DOOR 16'-2" (194") MAX. WIDTH(L.M.I)
AA IMPACT GARAGE DOOR, INC.
2235 W 10TH CT.
HIALEAH, FL 33010
PHONE: 305.450.2993

REVISION		DESCRIPTION	
		DATE	BY
No.			

12-20-2024

date:

scale:

drawn by:

check by:

M.S.

H.T.

DRAWING NO.

JA-1104.1-25

Eng: JAVAD AHMAD - CIVIL
FLA PE #70592 / C.A.N. 34254

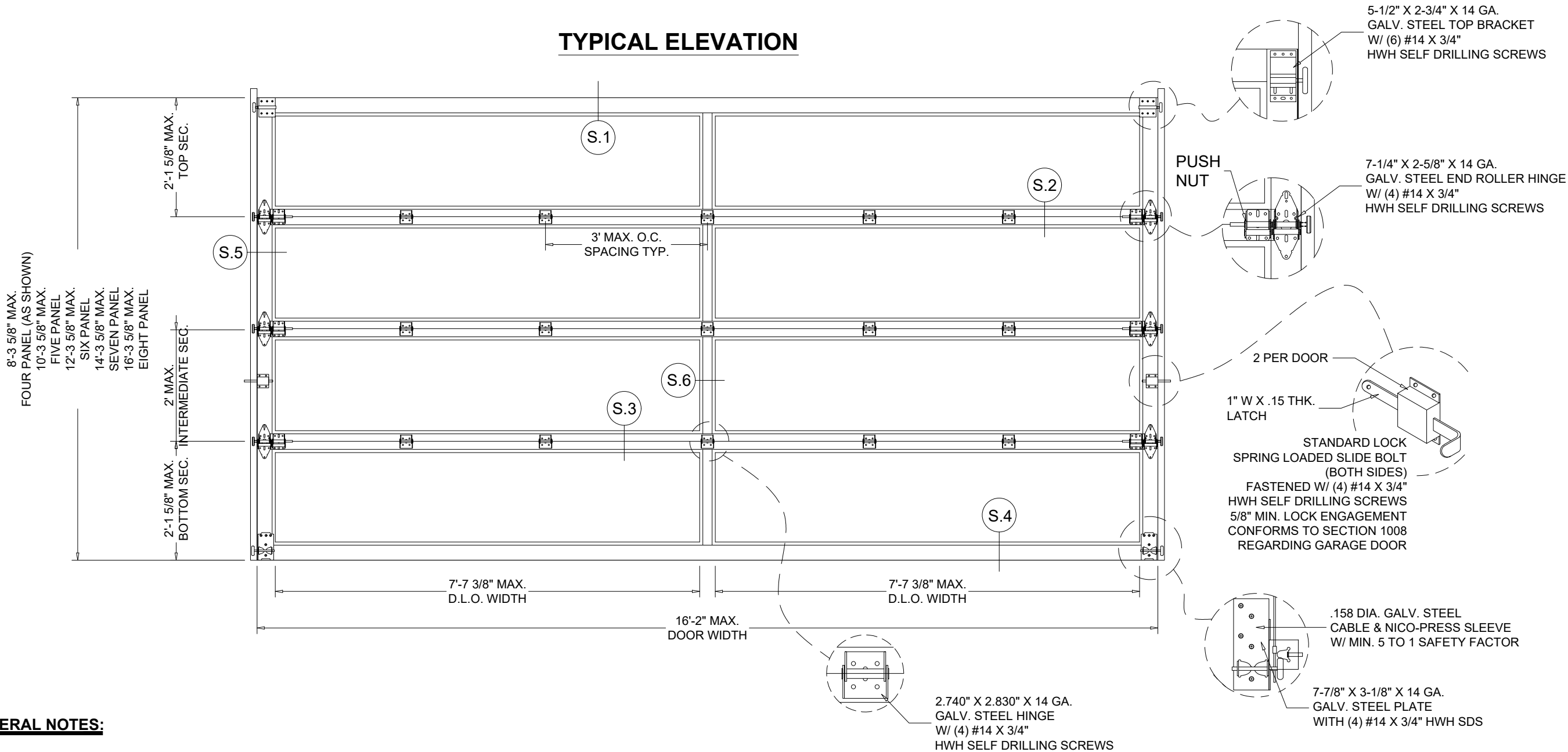
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COVER PAGE

SHEET No.
01 OF 11

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

TYPICAL ELEVATION



GENERAL NOTES:

- 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 OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

ALUMINUM/GLASS SECTIONAL GARAGE DOOR

THIS DOOR IS RATED FOR LARGE MISSILE IMPACT.

MAX. FRAME AND GLASS DIMENSIONS AS SHOWN ON TYPICAL ELEVATION. SEE GLASS SPECS ON SHEET# 03

DESIGN TABLE	MAX. ALLOWABLE PRESSURES	SECTION DETAIL
WITHOUT REINF.	+46.0 / -55.0 PSF	SEE DETAIL S3
WITH REINF.	+50.0 / -60.0 PSF	SEE DETAIL S3 ALT.

FL# 46870.2



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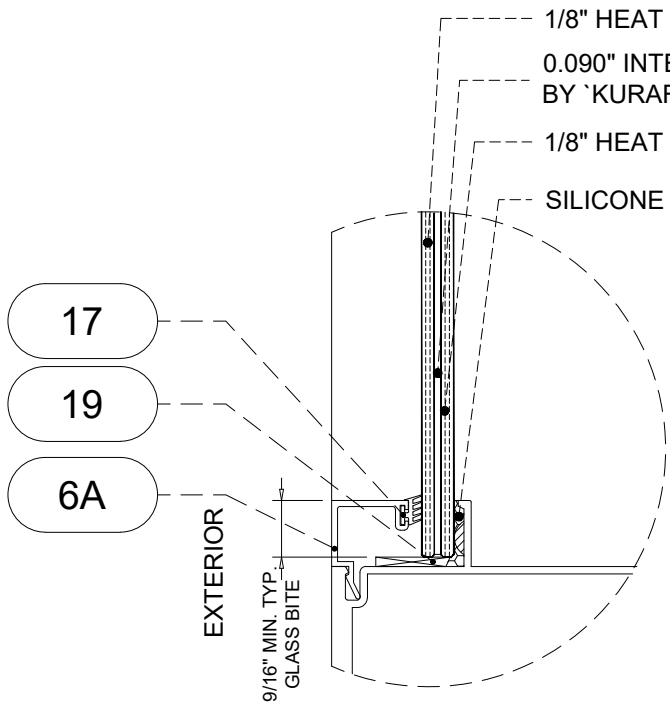
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FLA PE #70592 / C.A.N. 34254

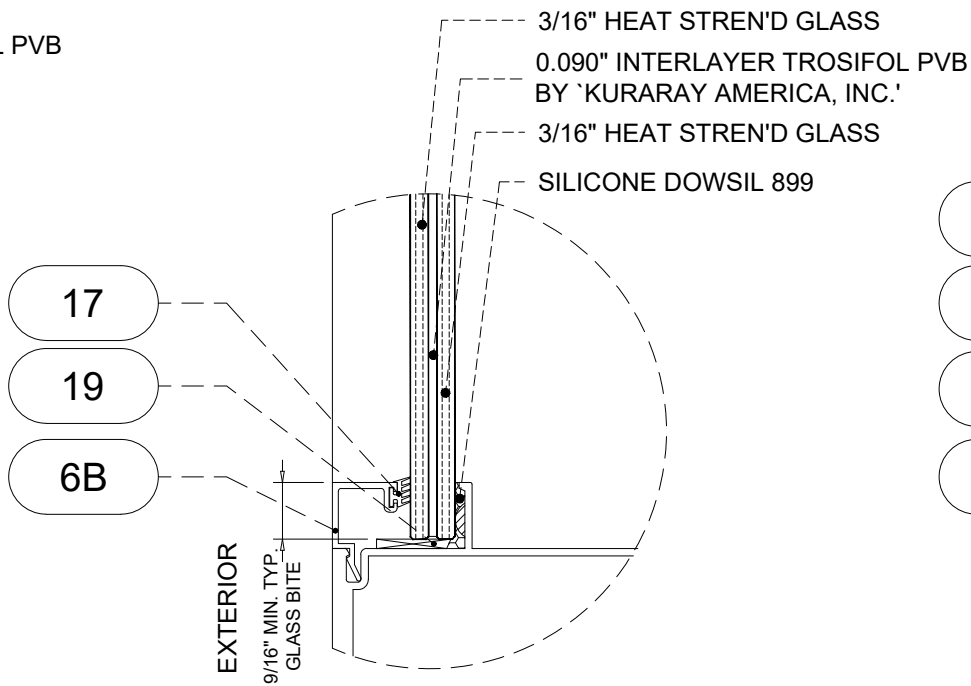


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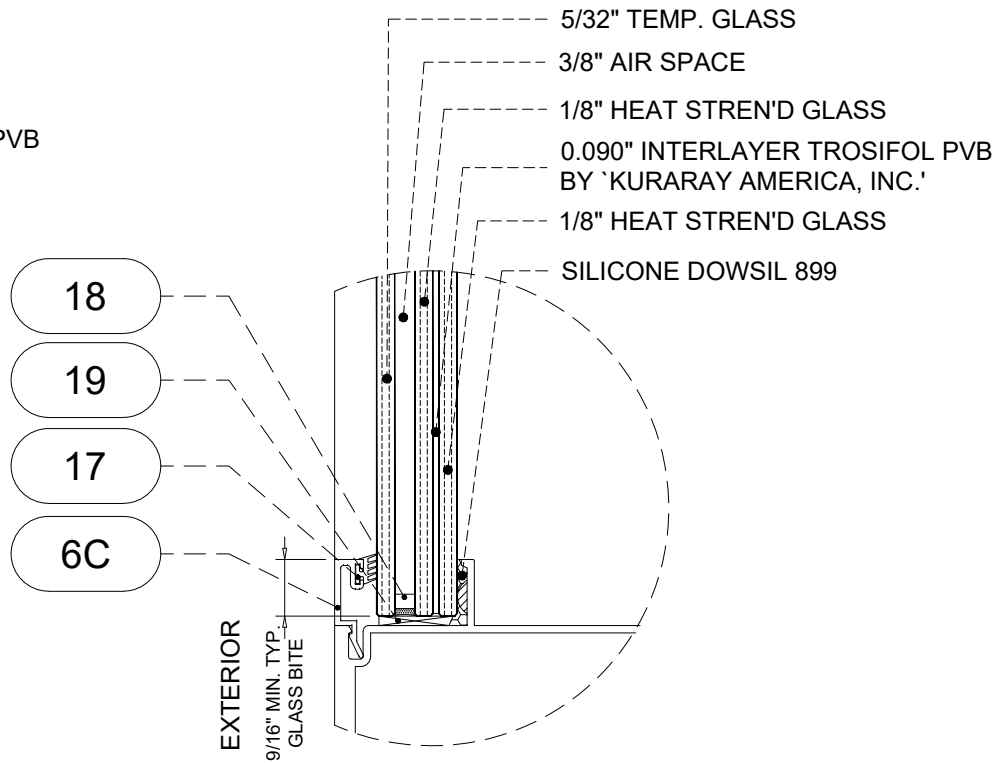
TYP. ELEV. SHEET No. 02 OF 11



5/16" LAM. GLASS
GLASS TYPE 'G1'



7/16" LAM. GLASS
GLASS TYPE 'G2'



13/16" INSUL. LAM. GLASS
GLASS TYPE 'G3'



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contact@jape.com

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ALUM/GLASS SECTIONAL
GARAGE DOOR 16'-2" (194")
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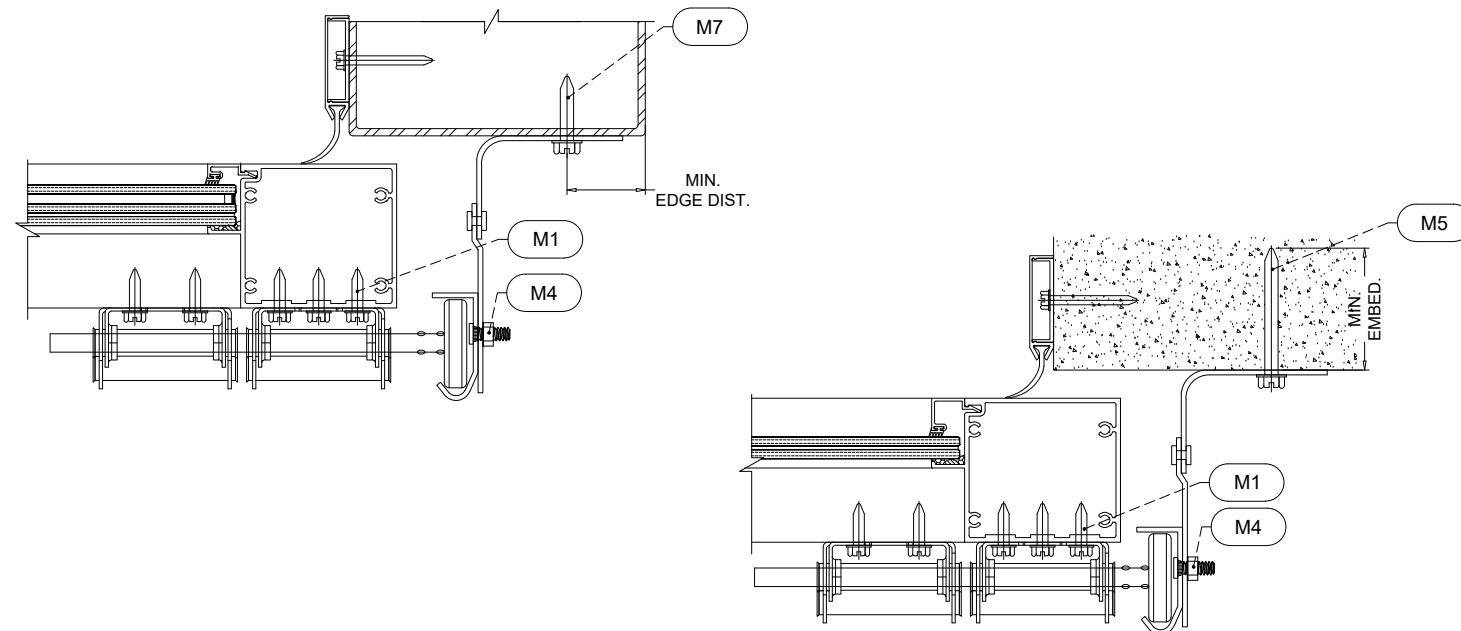
GLASS DET.

SHEET No.
03 OF 11

FL# 46870.2

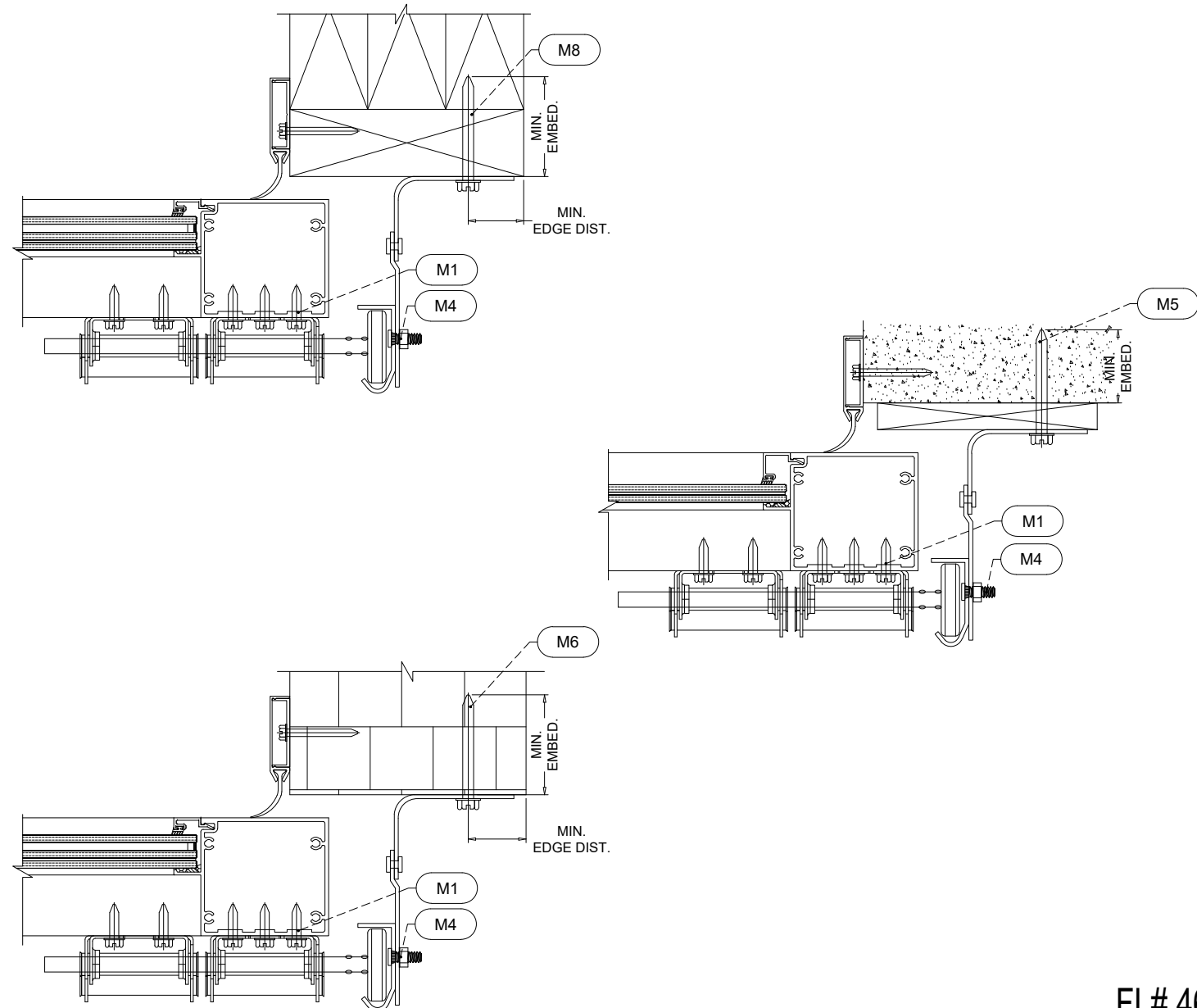
SYSTEM ANCHORS:

- M1** **1/4" DIA. TEKS OF SELF DRILLING SCREWS (GALVANIZED STEEL)**
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL
1/2" MIN. METAL E.D.
- M2** **#10 SMS OR SELF DRILLING SCREWS (316 STAINLESS STEEL)**
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL
1/2" MIN. METAL E.D.
(3) ON EACH SIDE @ 5/8" O.C. SPACING
- M3** **#8 SMS FH UNDERCUT SCREWS (316 STAINLESS STEEL)**
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL
1/2" MIN. METAL E.D.
(4) SCREWS AT EACH CONNECTION.
- M4** **#1/4-20 X 9/16" CARRIAGE BOLT WITH WASHERED NUT**
AT 4" MAX. FROM ENDS.
6" O.C. MAX.



SUBSTRATE ANCHORS:

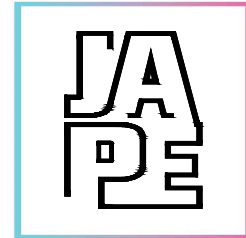
- M5** **5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY BUCKS INTO CONCRETE
2" MIN. EMBED. INTO CONCRETE
4" FROM BOTTOM AND 6" O.C. MAX.
- DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE
4" FROM BOTTOM AND 6" O.C. MAX.
- M6** **3/8" DIA. KWIK BOLT 3 EXPANSION ANCHOR BY 'HILTI'**
DIRECTLY INTO MASONRY
2-1/2" MIN. EMBED INTO FILLED BLOCKS
AT 4" FROM BOTTOM AND 6" O.C. MAX.
- M7** **5/16" DIA. DRIL-FLEX SCREWS BY 'DEWALT'** (Fu=100 KSI, Fy=65 KSI)
INTO METAL STRUCTURES
STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
AT 4" FROM BOTTOM AND 6" O.C. MAX.
- M8** **5/16" DIA. LAG SCREWS BY 'DEWALT'**
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
AT 4" FROM BOTTOM AND 6" O.C. MAX.



SUBSTRATE EDGE DISTANCE:

INTO CONCRETE = 3-1/8" MIN.
 INTO FILLED BLOCKS = 4" MIN.
 INTO WOOD STRUCTURES = 1-1/2" MIN.
 INTO METAL STRUCTURE = 1" MIN.

WOOD SG = 0.55 MIN.
 CONCRETE f_c = 3000 PSI MIN.
 C-90 GROUT FILLED BLOCK f_m = 2000 PSI MIN.



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8800 NW 23rd St, Miami FL
33172
Ph: (305) 424-8001
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ALUM/GLASS SECTIONAL
GARAGE DOOR 16'-2" (194")
MAX. WIDTH(L.M.I)

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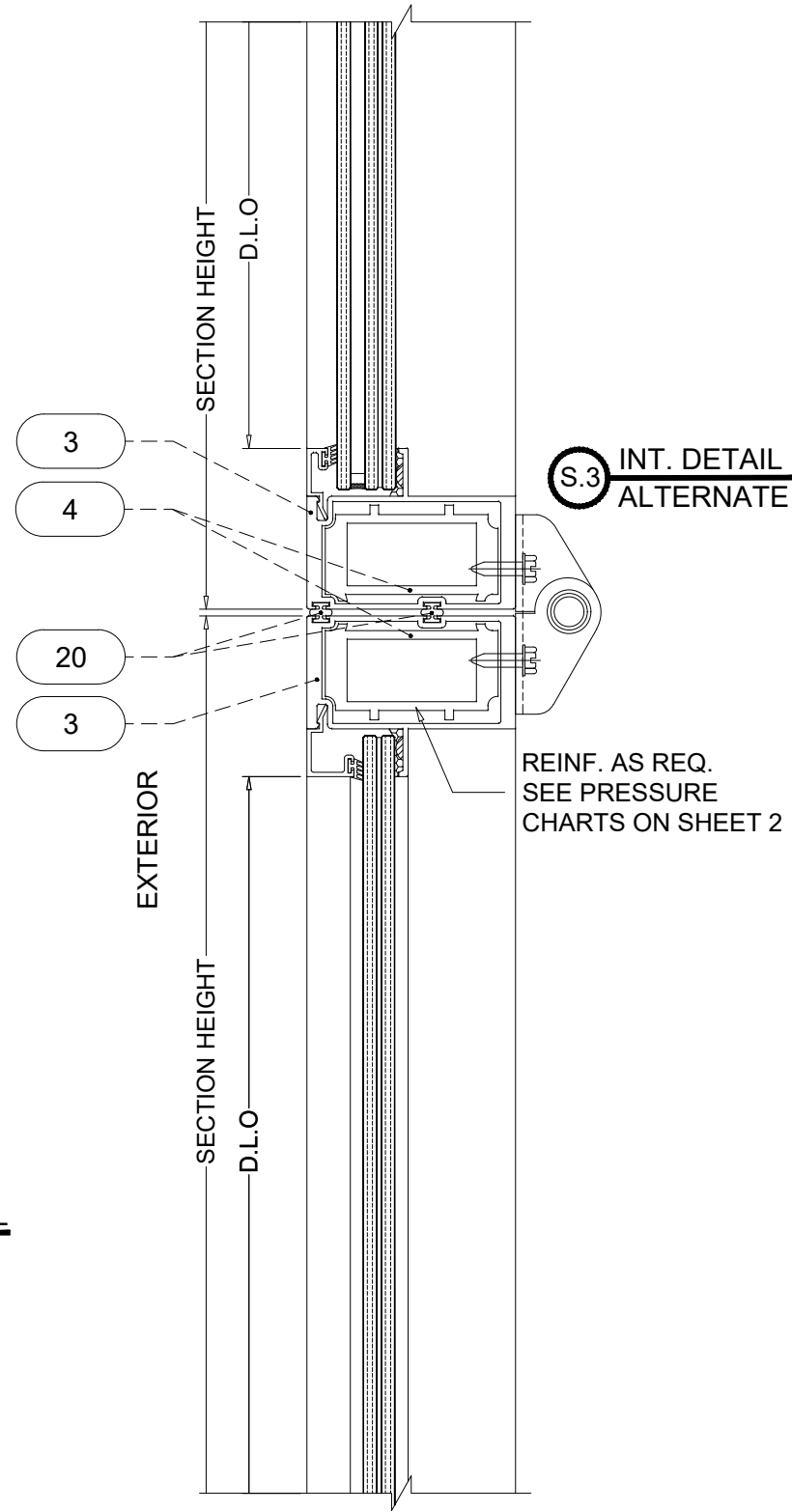
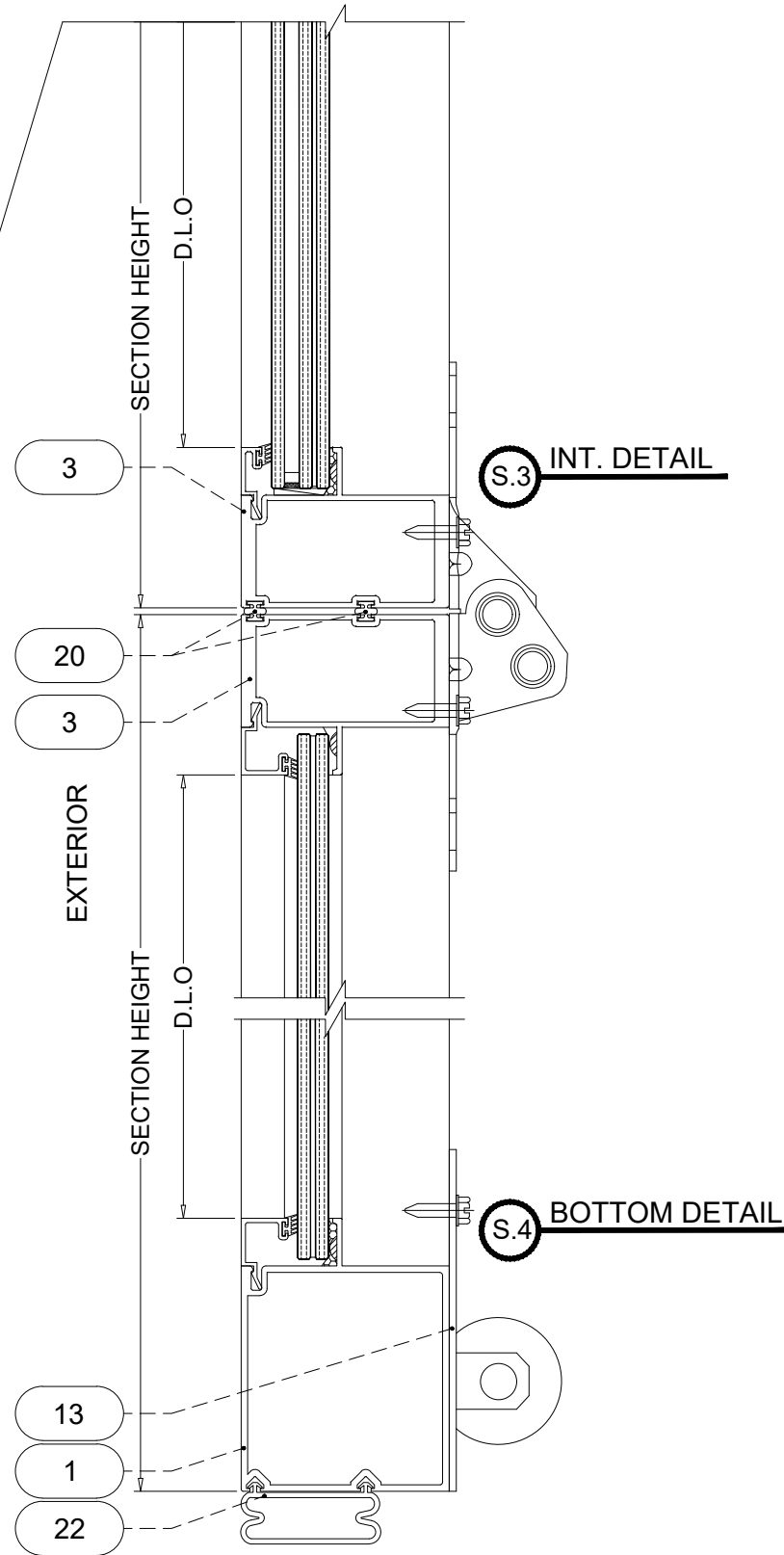
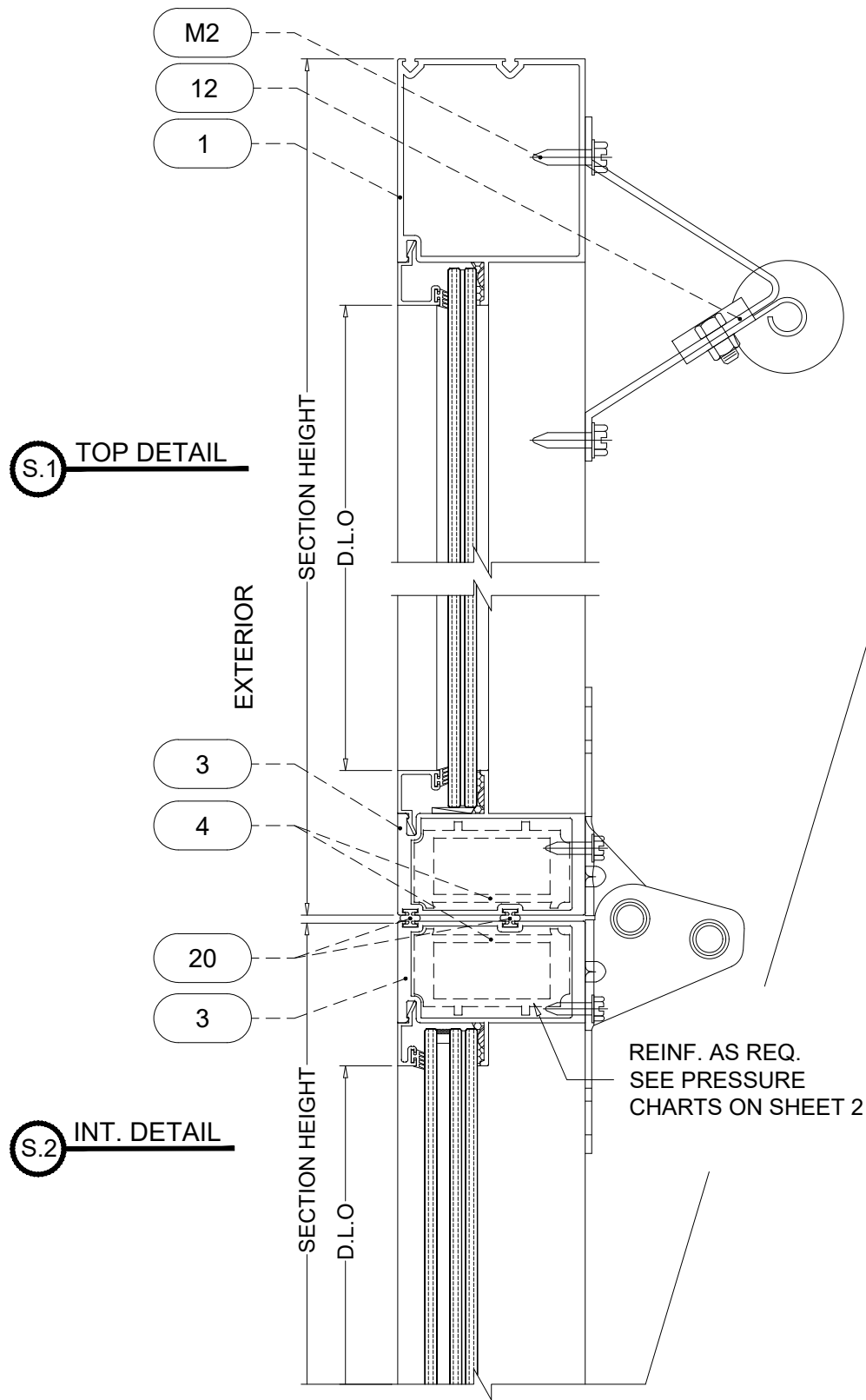
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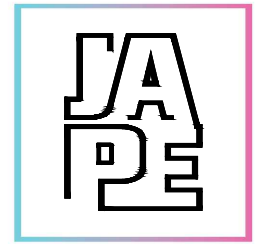
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ANCHORS

FL# 46870.2



FL# 46870.2



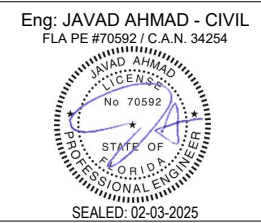
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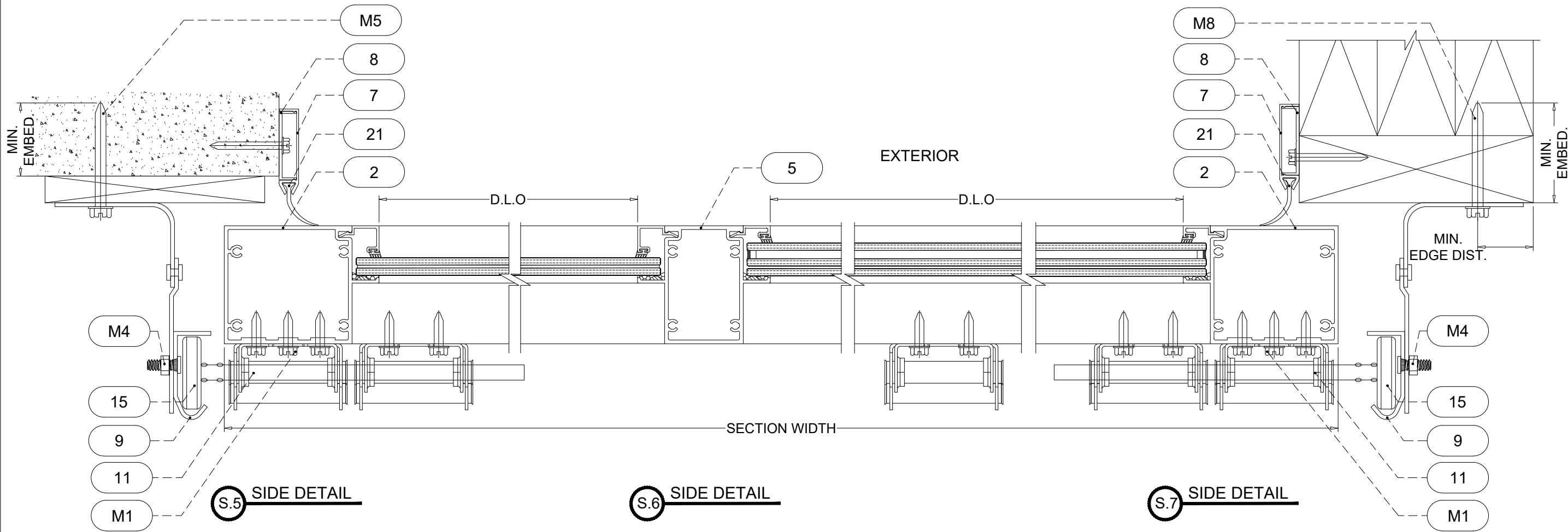
ALUM/GLASS SECTIONAL
GARAGE DOOR 16'-2" (194")
MAX. WIDTH(L.M.I.)

AA IMPACT GARAGE DOOR, INC.
2235 W 10TH CT.
HIALEAH, FL 33010
PHONE: 305.450.2993

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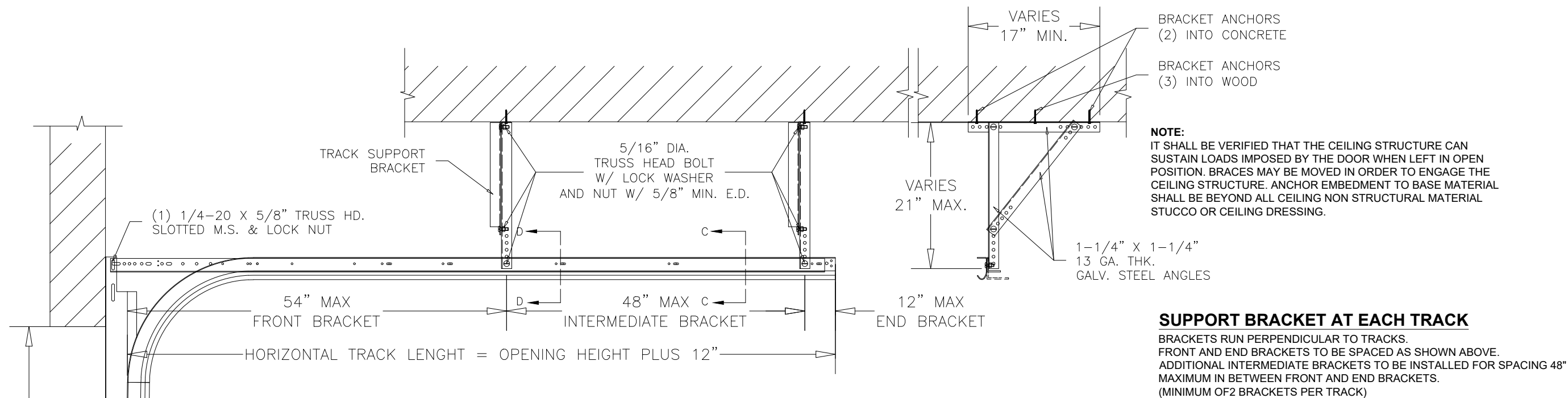
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SEC. DETAILS	SHEET No. 06 OF 11
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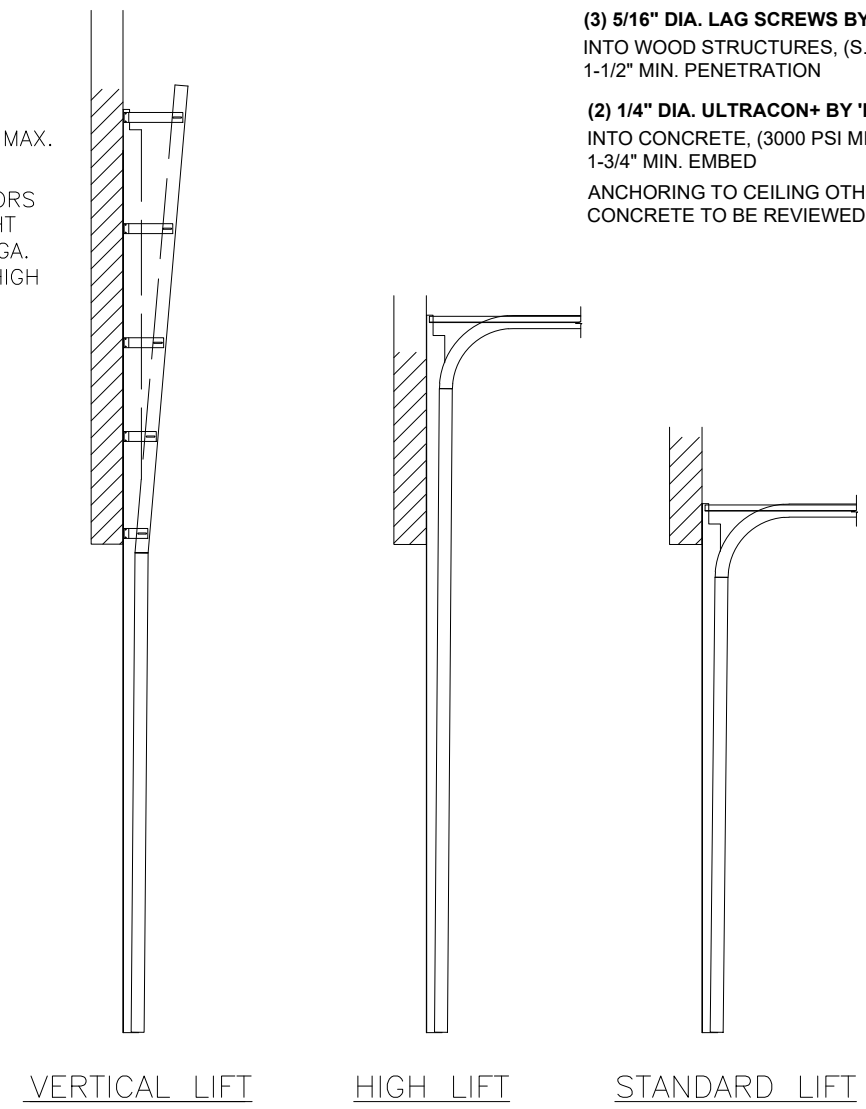
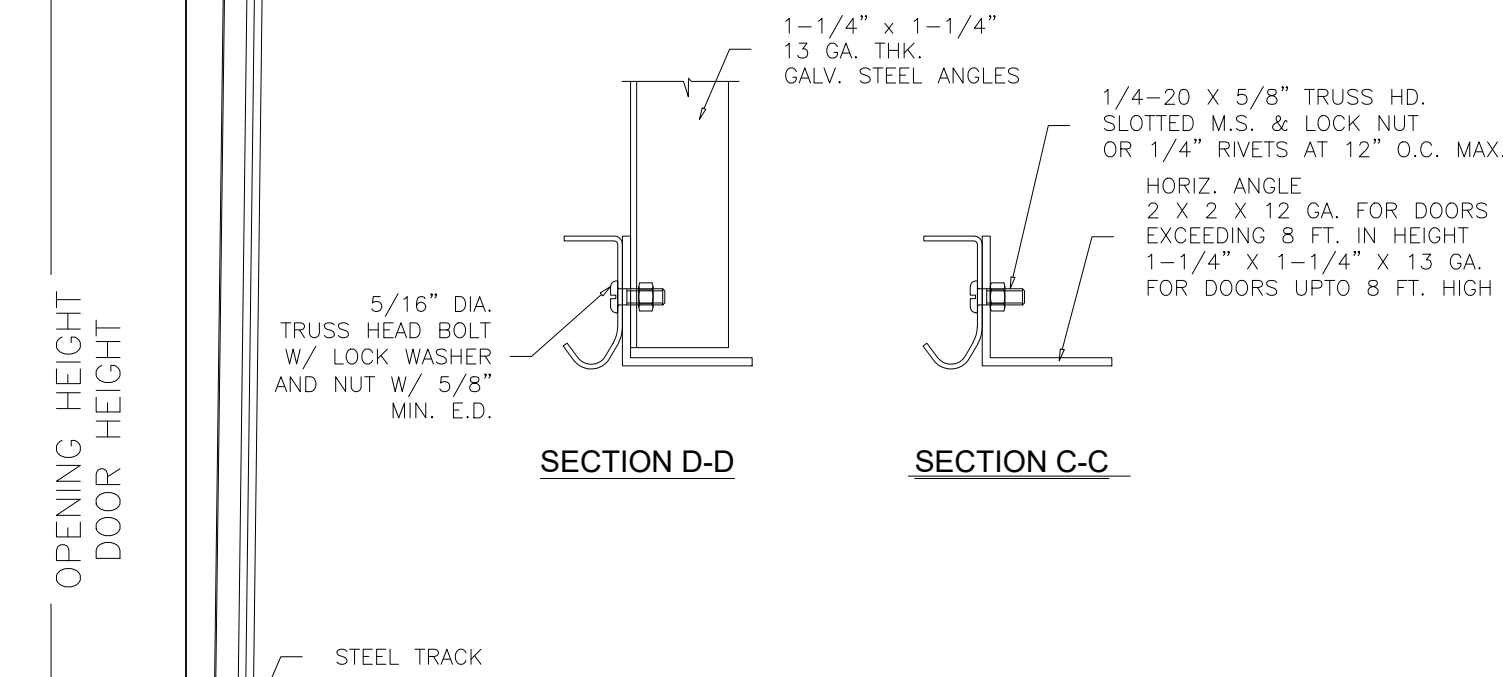
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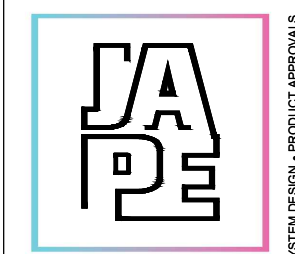
NOTE:
IT SHALL BE VERIFIED THAT THE CEILING STRUCTURE CAN SUSTAIN LOADS IMPOSED BY THE DOOR WHEN LEFT IN OPEN POSITION. BRACES MAY BE MOVED IN ORDER TO ENGAGE THE CEILING STRUCTURE. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ALL CEILING NON STRUCTURAL MATERIAL STUCCO OR CEILING DRESSING.

SUPPORT BRACKET AT EACH TRACK
BRACKETS RUN PERPENDICULAR TO TRACKS.
FRONT AND END BRACKETS TO BE SPACED AS SHOWN ABOVE.
ADDITIONAL INTERMEDIATE BRACKETS TO BE INSTALLED FOR SPACING 48" MAXIMUM IN BETWEEN FRONT AND END BRACKETS.
(MINIMUM OF 2 BRACKETS PER TRACK)

BRACKET ANCHORS:
(3) 5/16" DIA. LAG SCREWS BY 'DEWALT'
INTO WOOD STRUCTURES, (S.G.=0.50)
1-1/2" MIN. PENETRATION
(2) 1/4" DIA. ULTRACON+ BY 'DEWALT' Fu=164 KSI, F=148 KSI
INTO CONCRETE, (3000 PSI MIN.)
1-3/4" MIN. EMBED
ANCHORING TO CEILING OTHER THAN WOOD OR CONCRETE TO BE REVIEWED SEPARATELY.



AVAILABLE TRACK OPTIONS



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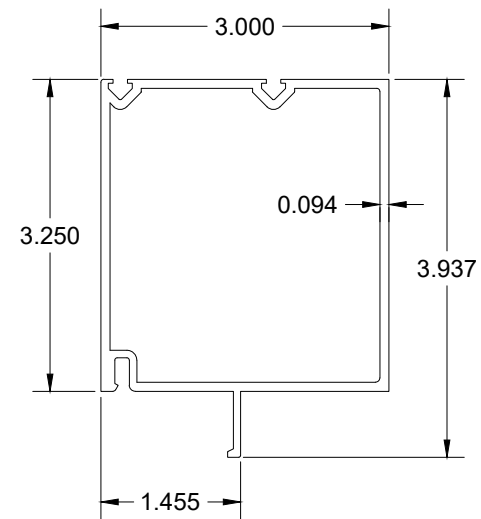
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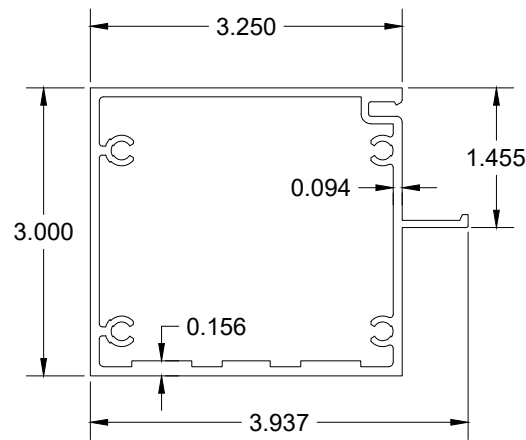
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TRACK OPT.	SHEET No. 07 OF 11
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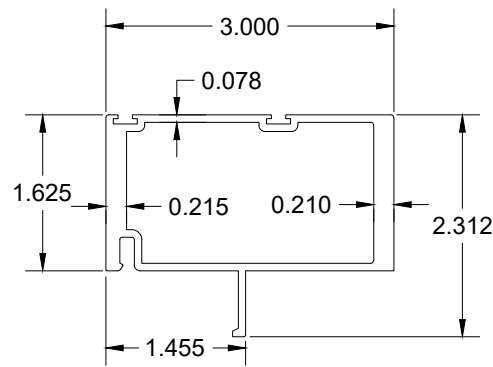
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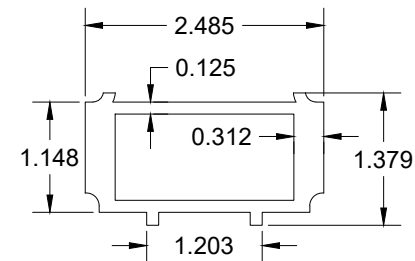
1 TOP / BOTTOM RAIL



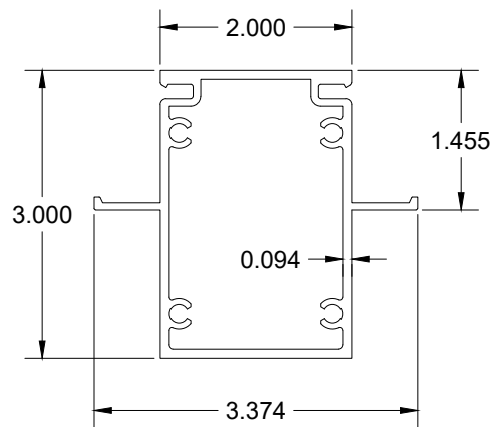
2 VERTICAL STILE



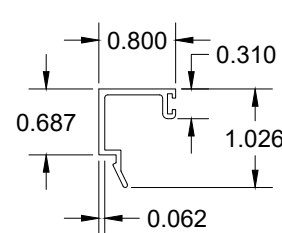
3 INTERMEDIATE RAIL



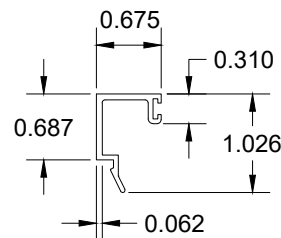
4 RAIL STIFFENER



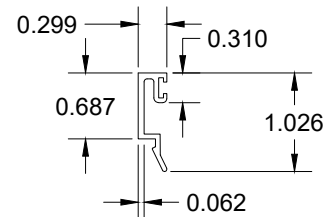
5 DIVIDER STILE



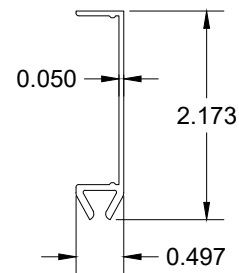
6A GLASS STOP
(5/16" GLASS)



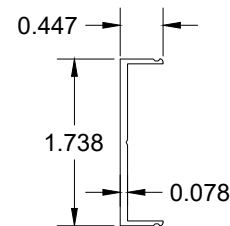
6B GLASS STOP
(7/16" GLASS)



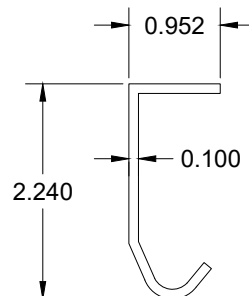
6C GLASS STOP
(INSUL. LAM. GLASS)



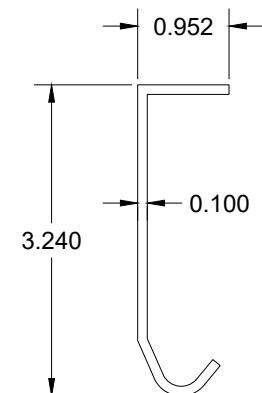
7 JAMB SEAL



8 JAMB SEAL BASE



9 DOOR TRACK (2" OPT.)



9A DOOR TRACK (3" OPT.)

FL# 46870.2



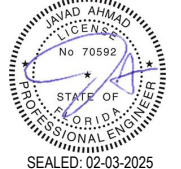
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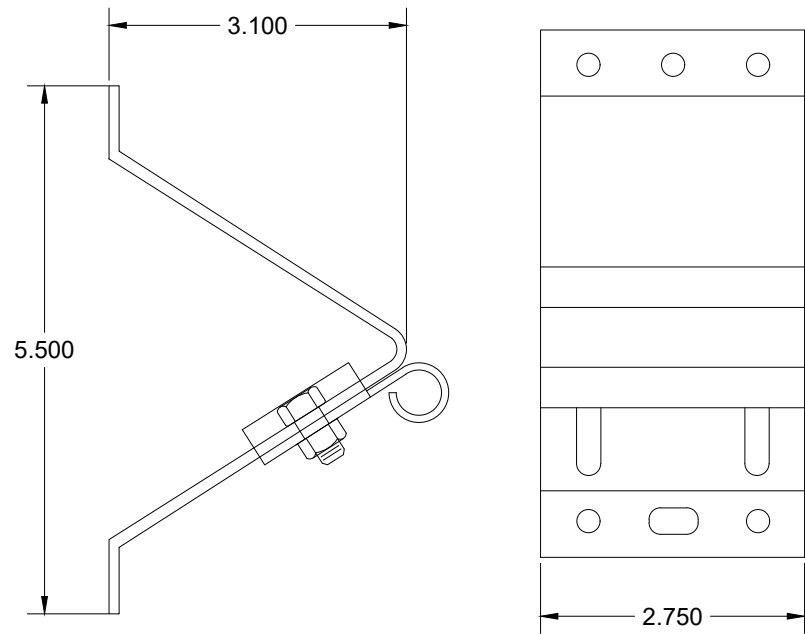
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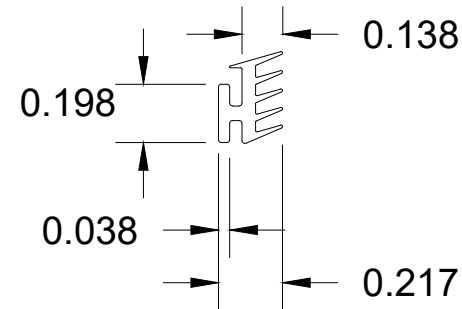


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PROFILES SHEET No. 08 OF 11



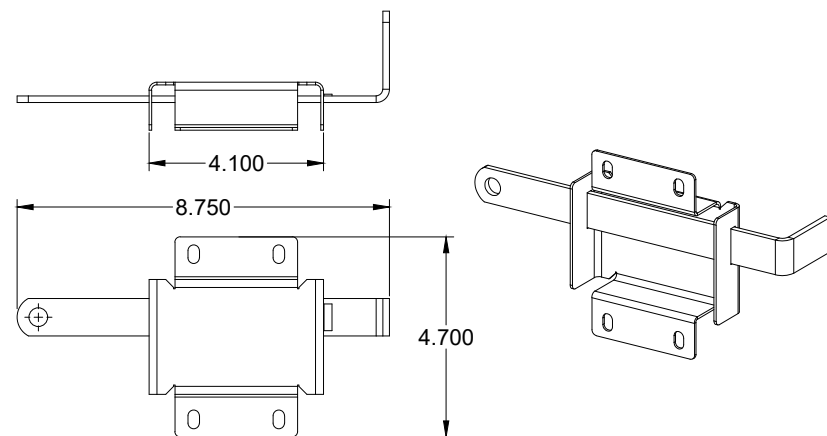
12 TOP FIXTURE



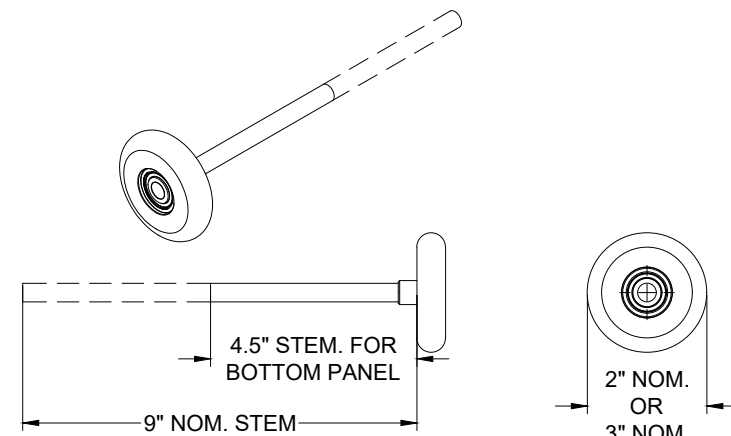
17 GLAZING GAKET

BASE POLYMER = EPDM RUBBER
DENSITY = 10.26 Lbs/Gal
HARDNESS = 80±5
TENSILE STRENGTH = 905 PSI
ELONGATION AT BREAK = 273%
TEAR STRENGTH = 1.343 Kip/ft
BRITTLENESS TEMPERATURE = -40° F
COMPRESSION SET = 27% (22h@158°F)

BILL OF MATERIALS					
ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	AA-101	2	TOP SECTION TOP RAIL & BOTTOM SECTION BOTTOM RAIL	6063-T6	-
2	AA-102	2	VERTICAL STILE	6063-T6	-
3	AA-103	AS REQD.	INTERMEDIATE RAIL	6063-T6	-
4	AA-104	AS REQD.	RAIL STIFFENER	6063-T6	-
5	AA-105	AS REQD.	DIVIDER STILE	6063-T6	-
6A	AA-106	AS REQD.	GLASS STOP (5/16" GLASS)	6063-T6	-
6B	AA-107	AS REQD.	GLASS STOP (7/16" GLASS)	6063-T6	-
6C	AA-108	AS REQD.	GLASS STOP (INSUL. LAM. GLASS)	6063-T6	-
7	AA-109	AS REQD.	JAMB SEAL	6063-T6	-
8	AA-110	AS REQD.	JAMB SEAL BASE	6063-T6	-
9	-	2	DOOR TRACK (2" OPTION)	GALV. STEEL	-
9A	-	2	DOOR TRACK (3" OPTION)	GALV. STEEL	-
10	-	AS REQD.	JAMB ANGLE	GALV. STEEL	Fy MIN. = 42 KSI
11	-	AS REQD.	ROLLER HINGES	GALV. STEEL	-
12	-	2	TOP BRACKET	GALV. STEEL	-
13	-	2	BOTTOM FIXTURE	GALV. STEEL	-
14	-	2	STANDARD LOCK	-	-
15	-	AS REQD.	ROLLER WITH STEM	STEEL	-
16	-	2	5/32" SPRING LIFT CABLE	GALV. STEEL	-
17	-	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 80±5 SHORE A
18	-	-	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
19	-	2/ LITE	SETTING BLOCK, 1/8" X 3/4" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 65±5
20	-	-	BULB W'STRIPPING	SANTOPRENE	EPDM
21	-	-	LEAF W'STRIPPING	SANTOPRENE	EPDM
22	-	-	BOTTOM SECTION SEAL	SANTOPRENE	EPDM
M1	#14 X 3/4"	AS REQD.	ROLLER HINGES FASTENERS	GALV. STEEL	HWH SELF DRILLING SCREWS
M2	#14 X 3/4"	6/ BRACKET	BRACKET FASTENERS	GALV. STEEL	HWH SELF DRILLING SCREWS
M3	#12 X 2"	AS REQD.	ASSEMBLY FASTENERS	ST.STEEL	PH SMS
M4	1/4-20 X 9/16"	AS REQD.	CARRIAGE BOLT WITH WASHERED NUT	STEEL	-
M5	-	AS REQD.	5/16" DIA. ULTRACON	-	DEWALT
M6	-	AS REQD.	3/8" DIA. KWIK BOLT 3 EXPANSION ANCHOR	-	HILTI
M7	-	AS REQD.	5/16" DIA.DRIL-FLEX ANCHORS	410 STAINLESS STEEL	-
M8	-	AS REQD.	5/16" DIA. LAG SCREWS	STEEL	DEWALT

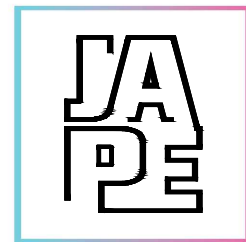


SLIDE LOCK BOX & ASSM.



ROLLER

FL# 46870.2



JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
contact@ja-pe.com

ALUM/GLASS SECTIONAL
GARAGE DOOR 16'-2" (194")
MAX. WIDTH(L.M.I)
AA IMPACT GARAGE DOOR, INC.
2235 W 10TH CT.
HIALEAH, FL 33010
PHONE: 305.450.2993

REVISION		DESCRIPTION	
No.	DATE	BY	

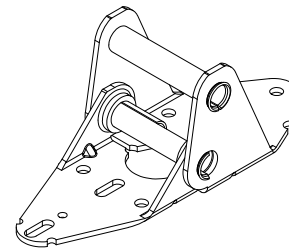
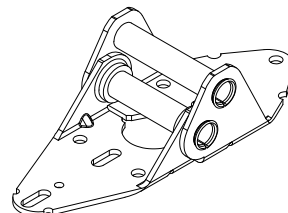
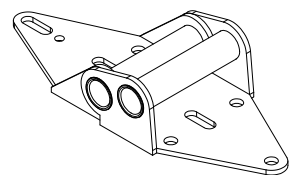
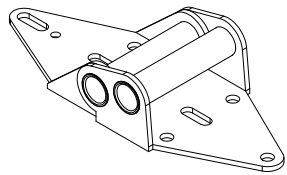
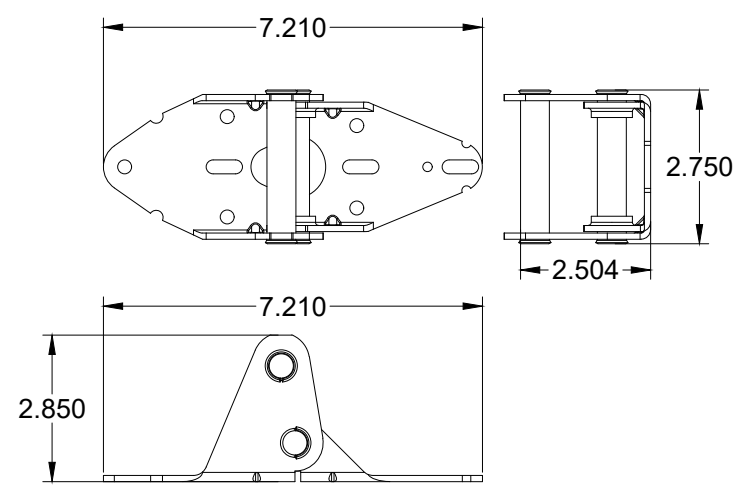
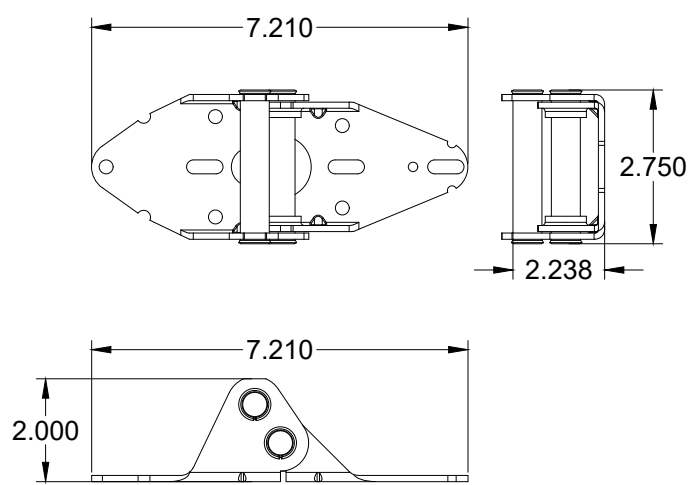
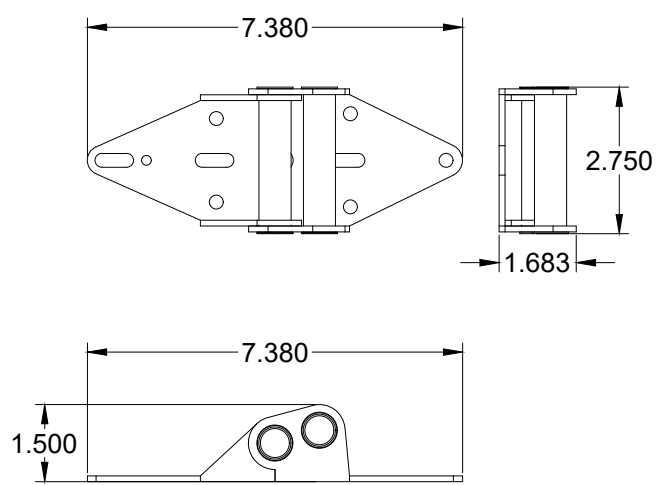
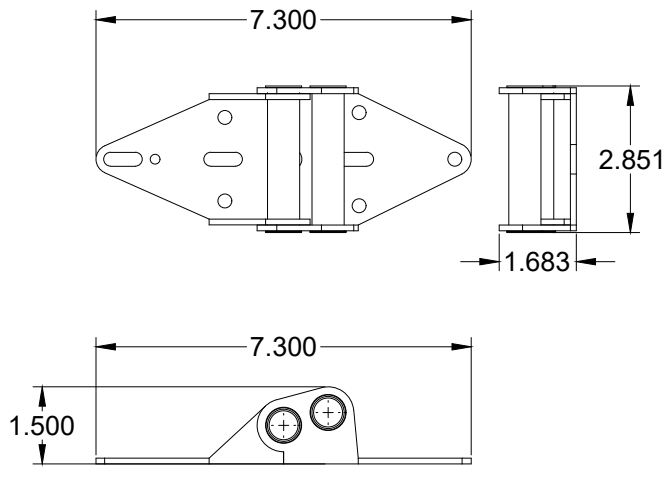
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12-20-2024		M.S.	H.T.	JA-1104.1-25

Eng: JAVAD AHMAD - CIVIL
FLA PE #70592 / C.A.N. 34254



SEALED: 02-03-2025

PROFILES	SHEET No. 09 OF 11
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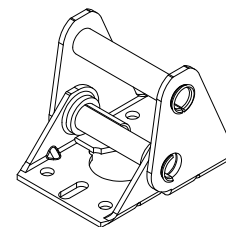
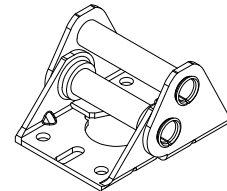
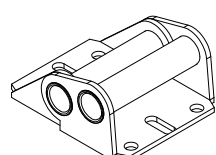
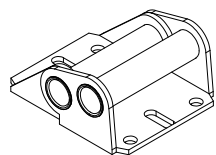
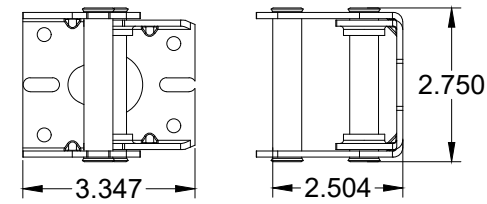
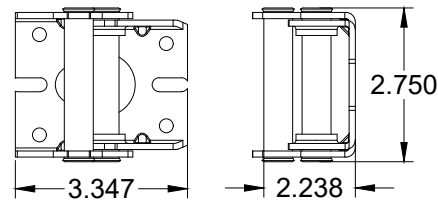
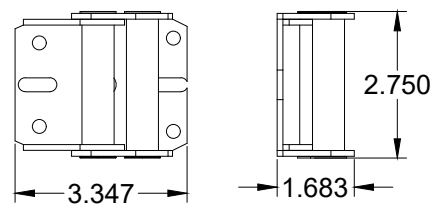
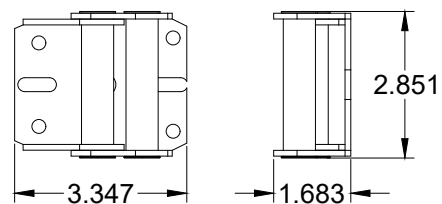


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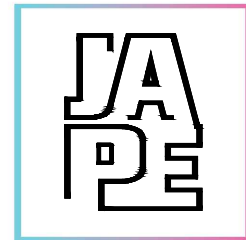
#3 ROLLER HINGE

#4 ROLLER HINGE

#5 ROLLER HINGE



CUT DOWN HINGES



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PHONE: 305.450.2993

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Eng: JAVAD AHMAD - CIVIL
FLA PE #70592 / C.A.N. 34254

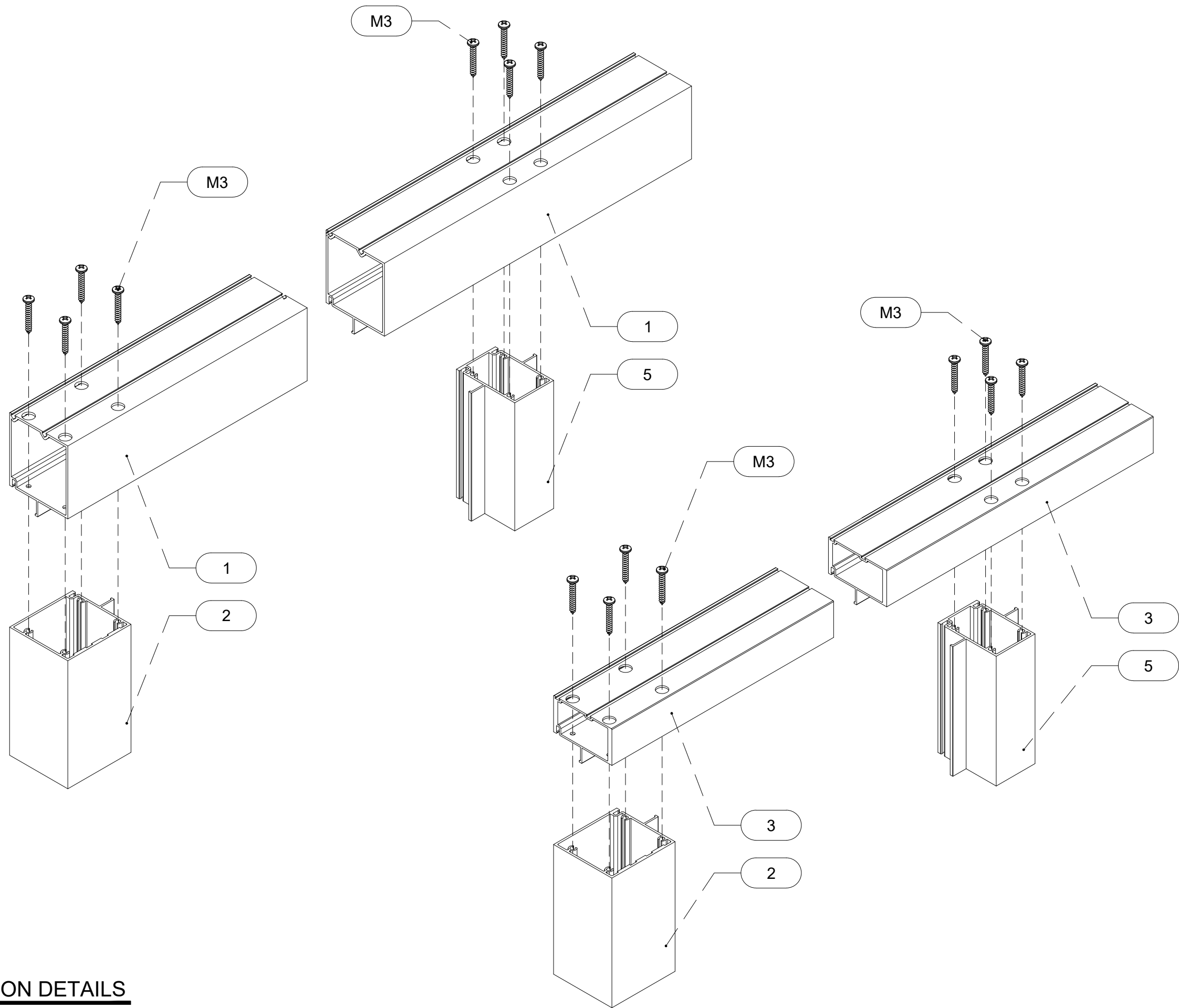


HRDW	SHEET No. 10 OF 11
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FL# 46870.2



INSTALLATION DETAILS



FL# 46870.2



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INST. DET SHEET No.
11 OF 11