SHEET INDEX	
01	COVER PAGE
02	TYPICAL ELEVATIONS
03	ANCHOR DESCRIPTION
04	GLASS SPECIFICATION
05	TOP SECTION DETAILS
06	TOP SECTION DETAILS
07	SIDE SECTION DETAILS
08	TRACK OPTIONS
09	INSTALLATION DETAIL
10	PROFILES DETAILS

ADDITIONAL DETAILS:
FOR SPECIAL SITE CONDITION, CONTACT NEAL IMPACT GARAGE DOORS.

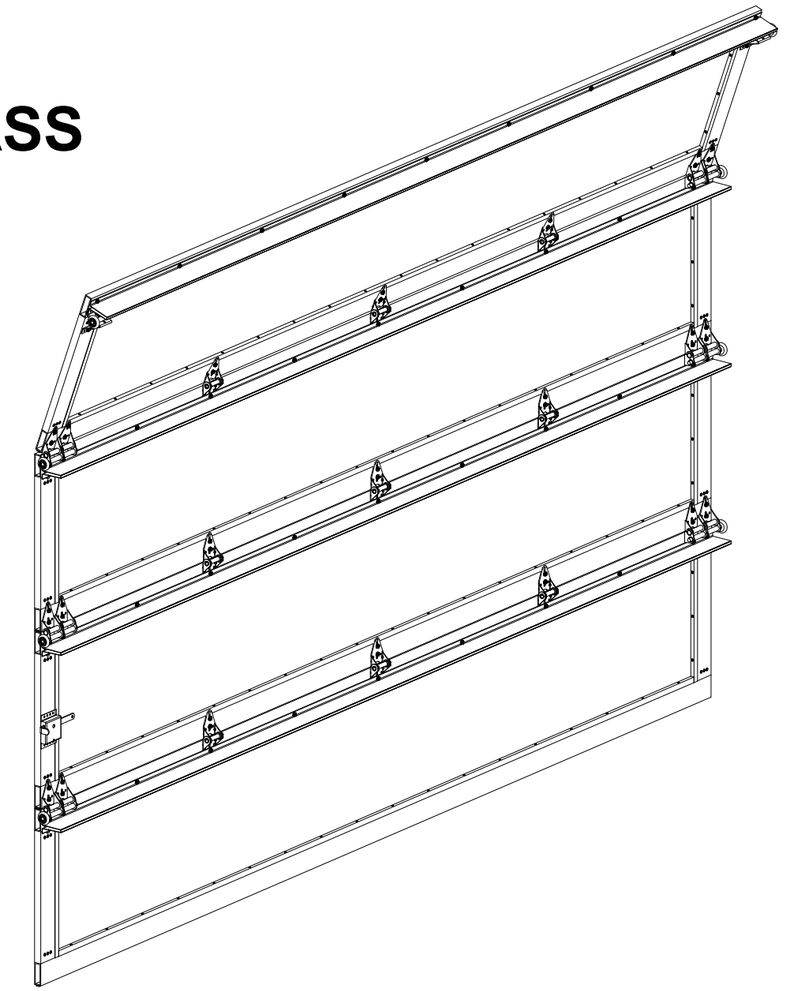
TO OBTAIN AUTOCAD/REVIT COMPATIBLE DETAILS OF THIS PRODUCT, KINDLY GET IN TOUCH WITH US CONTACTING US VIA OUR OFFICIAL EMAIL ADDRESS: CONTACT@JA-PE.COM.

REVIEWED BY

22CORE CONSTRUCTION

SERIES 1000 ALUMINUM & GLASS SECTIONAL GARAGE DOOR 144" MAX. SPAN

(LARGE & SMALL MISSILE IMPACT)



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.
12. 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.
13. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.
14. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.
15. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.
16. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:
    NEAL IMPACT GARAGE DOORS
    440 E 51 ST
    HIALEAH, FL 33013, USA
    PHONE: +1 (786) 547-2003

THIS PRODUCT IS APPROVED FOR IMPACT RESISTANT LEVEL 'D'.

FL# 46343.1

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

Javad Ahmad
2024.01.02
17:22:29
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JAVAD AHMAD PE, inc
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CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

SERIES 1000 ALUMINUM & GLASS SECTIONAL GARAGE DOOR 144" MAX. SPAN

NEAL IMPACT GARAGE DOORS
440 E 51 ST
HIALEAH, FL 33013, USA
PHONE: +1 (786) 547-2003

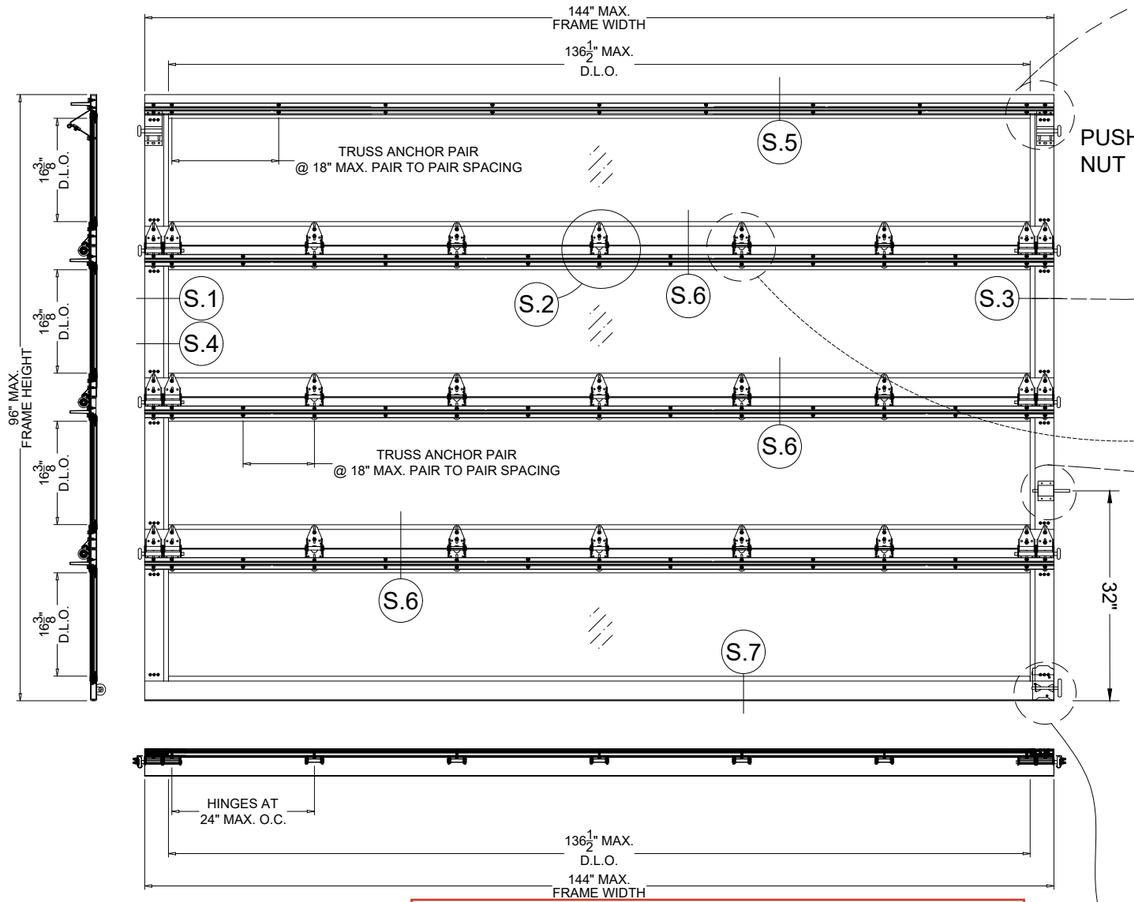
REVISION			
No.	DATE	BY	DESCRIPTION

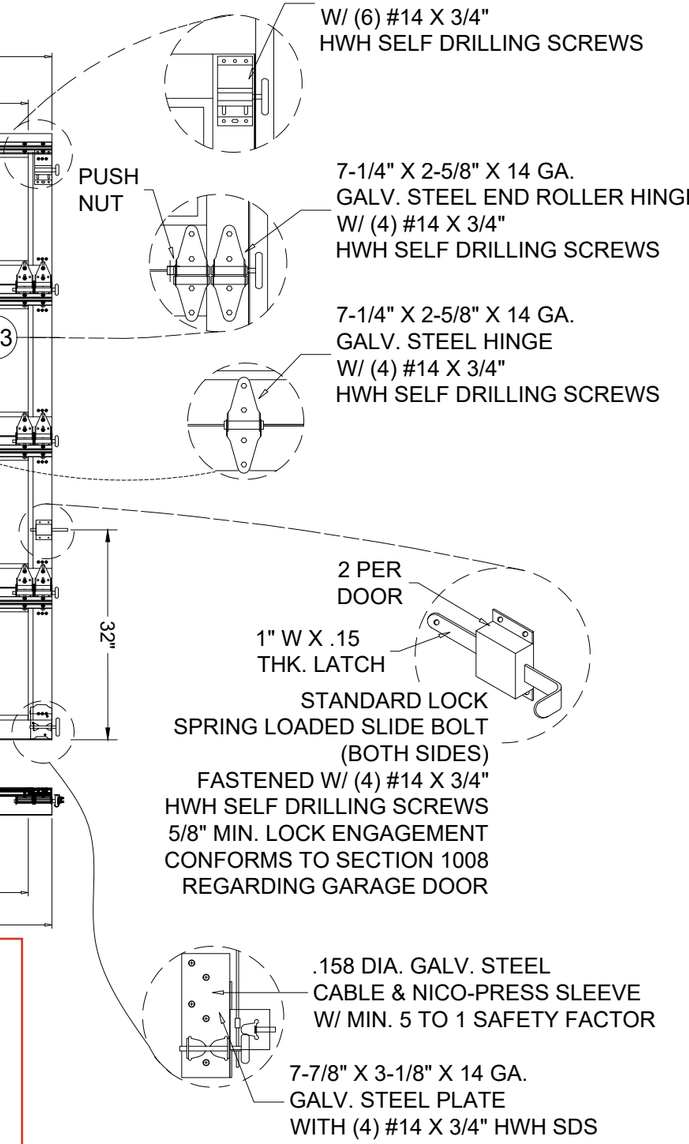
date:	11-16-2023		H.T.	E.G.	DRAWING NO. JA-1923-22
scale:		drawn by:		check by:	

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

COVER PAGE

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.

SERIES 1000 ALUMINUM SECTIONAL GARAGE DOOR

THESE DOORS ARE RATED FOR LARGE AND SMALL MISSILE IMPACT

MAX. DESIGN LOAD = + 52.0 /- 62.0 PSF

MAX. FRAME AND GLASS DIMENSIONS AS SHOWN ON TYPICAL ELEVATION.

APPROVAL APPLIES TO MULTIPLE UNIT INSTALLATIONS

NOM. DOOR HEIGHT	NO. OF DOOR PANELS
8' - 0"	4 PANELS
10' - 0"	5 PANELS
12' - 0"	6 PANELS

FL# 46343.1

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

TYP. ELEV.

SHEET No.
02 OF 10

SYSTEM ANCHORS:

M1 **1/4" DIA. TEKS OF SELF DRILLING SCREWS (410 STAINLESS STEEL)**
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL
3/4" MIN. METAL E.D.
(4) SCREWS TO BE PROVIDED THRU. EACH HINGE AND AT 24" MAX. O.C.

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.
3" MAX. FROM ENDS AND 6" MAX. O.C. IN BALANCE.

M4 **#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.
3" MAX. FROM ENDS AND 6" MAX. O.C. IN BALANCE.

M5 **#12 SMS PH SCREWS (416 STAINLESS STEEL)**
WITH (3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. THK. METAL
3/4" MIN. METAL E.D.
(2) ON EACH SIDE @ 1-1/4" O.C. SPACING

SUBSTRATE ANCHORS:

M6 **5/16" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY BUCKS INTO CONCRETE 2" MIN. EMBED.
INTO CONCRETE AT 4" FROM BOTTOM AND 8" O.C. MAX.
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE
4" FROM BOTTOM AND 8" O.C. MAX.

M7 **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 8" O.C. MAX.
4" MIN. EDGE DISTANCE

M8 **5/16" DIA. DRIL-FLEX SCREWS BY 'DEWALT'** (Fu=100 KSI, Fy=65 KSI)
INTO METAL STRUCTURES
AT 4" FROM BOTTOM AND 8" O.C. MAX.
STEEL: 1/8" THK. MIN. (Fy=36 KSI MIN.)

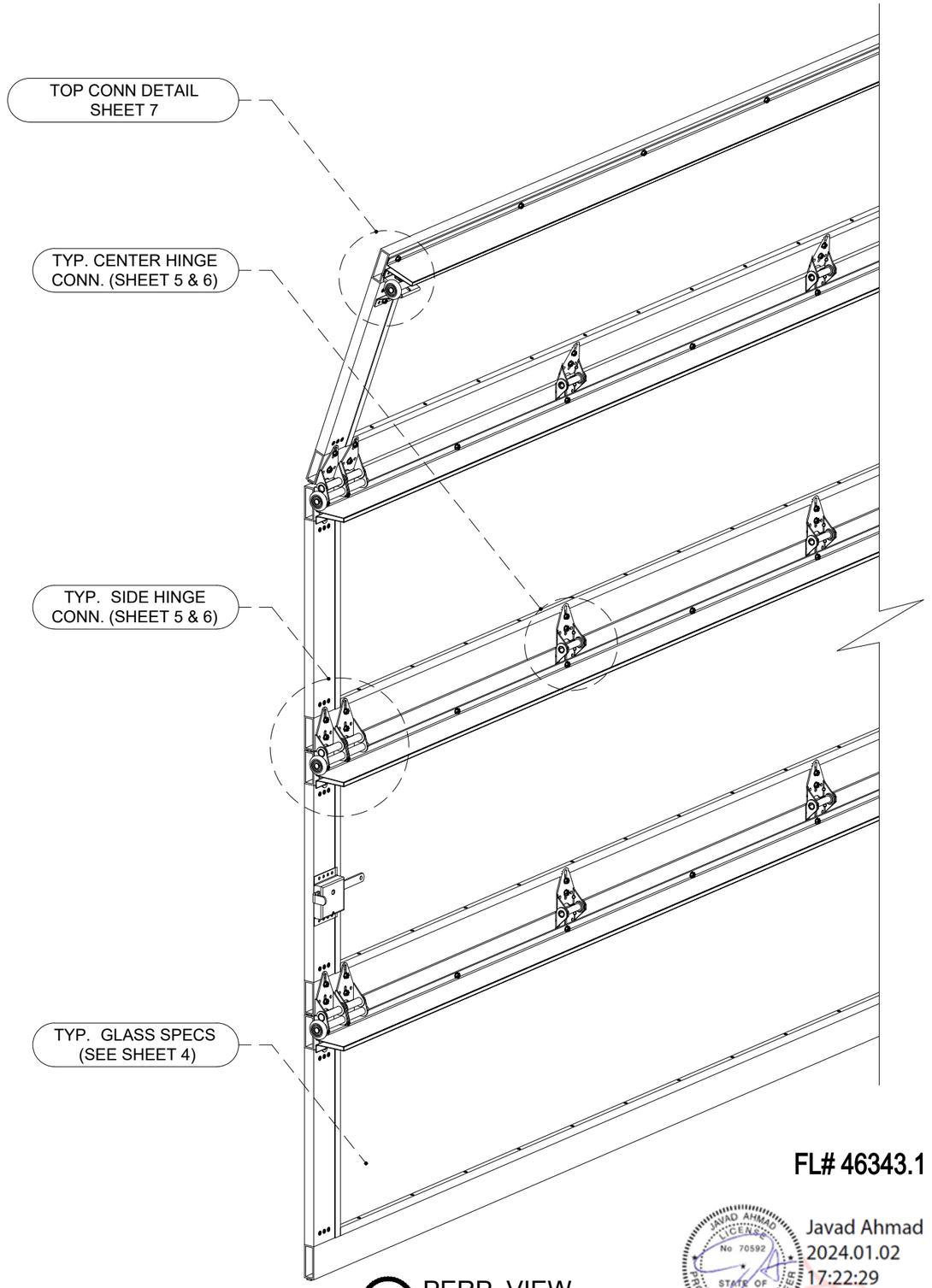
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

M9 **5/16" DIA. LAG SCREWS BY 'DEWALT'**
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
AT 4" FROM BOTTOM AND 8" 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 = 3500 PSI MIN.
C-90 GROUT FILLED BLOCK f'm = 2000 PSI MIN.



PERP. VIEW

FL# 46343.1

Javad Ahmad
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17:22:29
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SERIES 1000 ALUMINUM & GLASS
SECTIONAL GARAGE DOOR 144" MAX. SPAN

NEAL IMPACT GARAGE DOORS

440 E 51 ST
HIALEAH, FL 33013, USA
PHONE: +1 (786) 547-2003

REVISION

No.	DATE	BY	DESCRIPTION

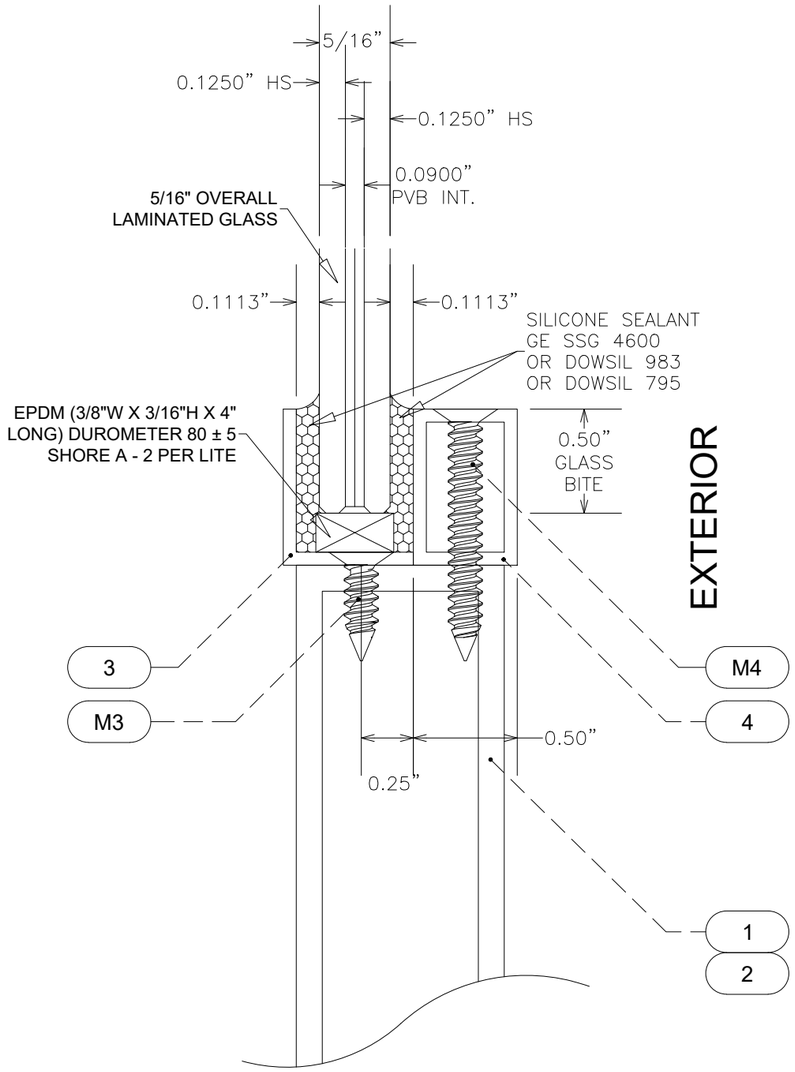
date:	scale:	drawn by:	check by:	DRAWING NO.
11-16-2023		H.T.	E.G.	JA-1923-22

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

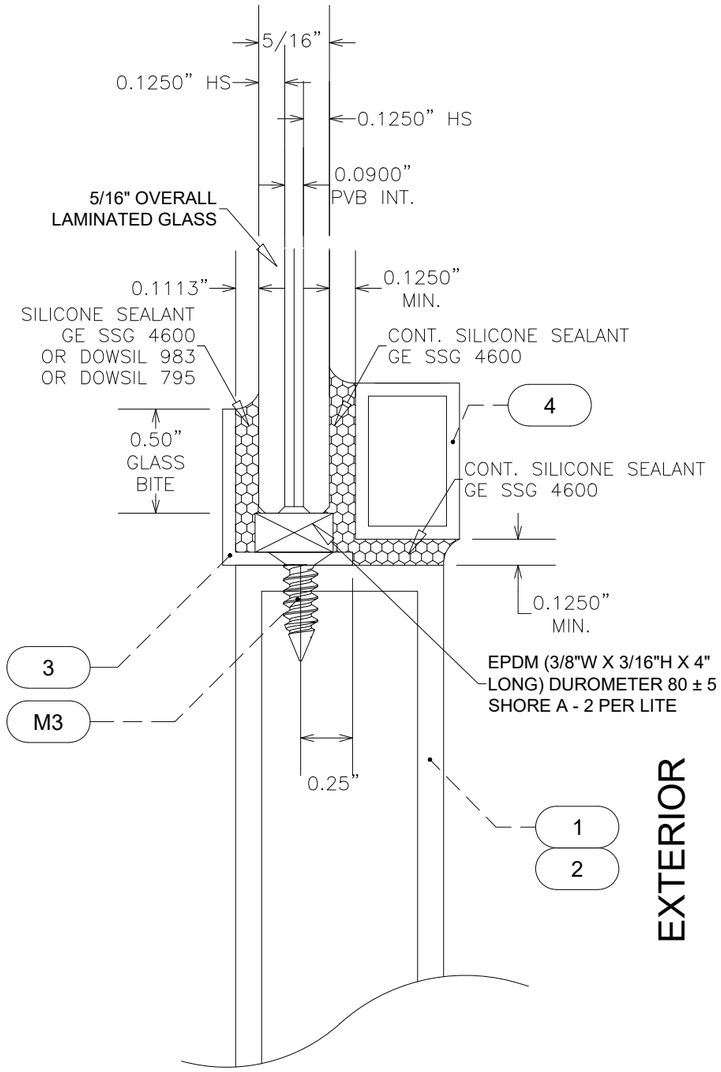
DESCRIPTION

SHEET No.
03 OF 10

NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)



WITH OPTIONAL SCREW



W/O OPTIONAL SCREW

GLASS DETAILS

FL# 46343.1

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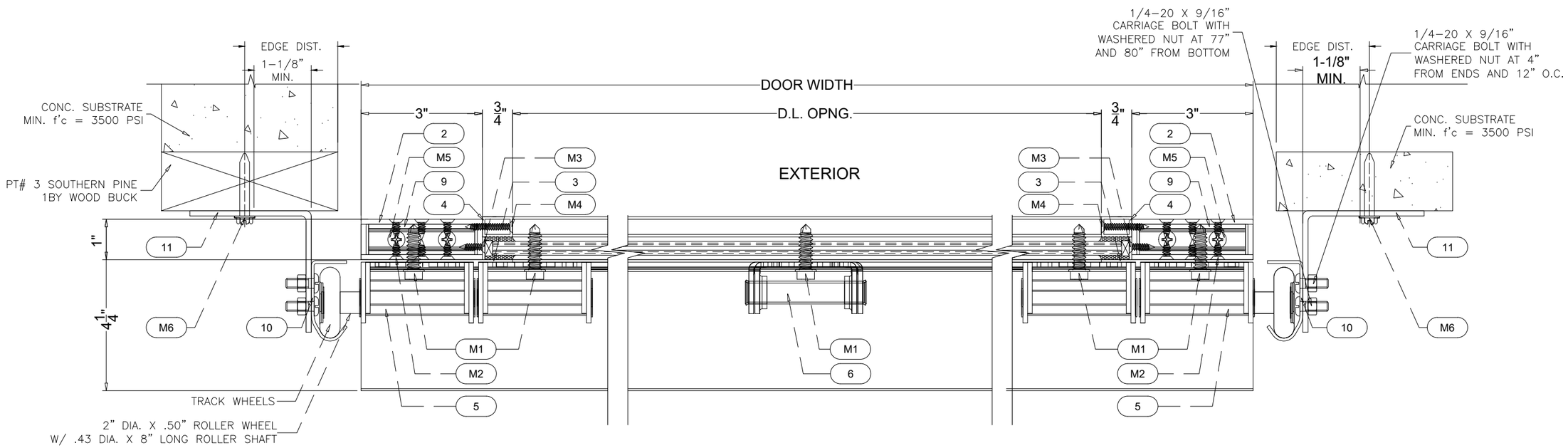
GLASS DET.

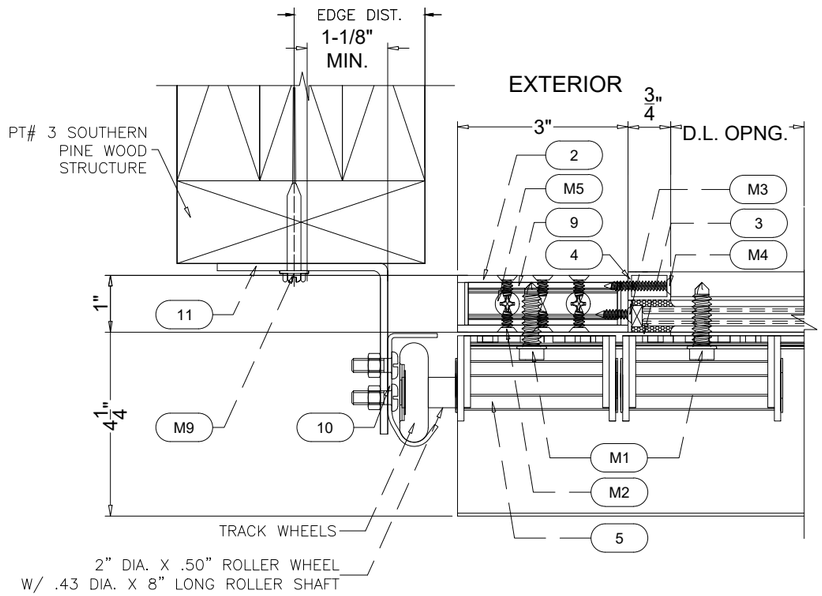
SHEET No.
04 OF 10



S.1 THRU WB INTO CONC. CONNECTION DETAIL

S.2 TYP. HINGE DETAIL

S.3 DIRECTLY INTO CONC. CONNECTION DETAIL



S.4 DIRECTLY INTO WOOD CONNECTION DETAIL

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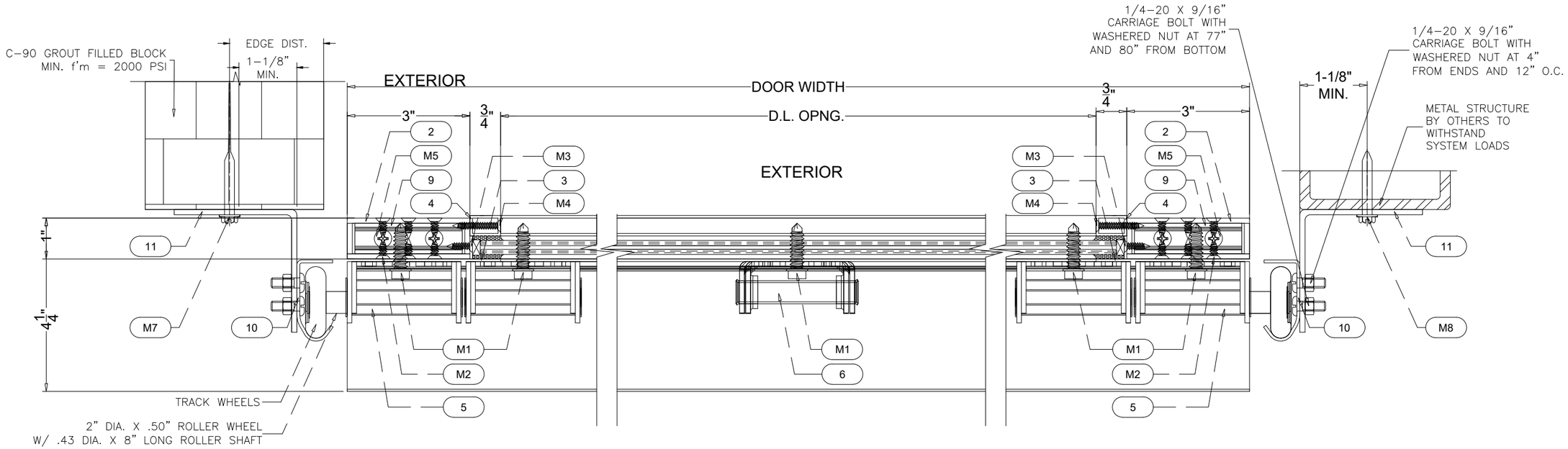
SEC. DETAILS

SHEET No. 05 OF 10



S.1 DIRECTLY INTO CMU CONNECTION DETAIL

S.2 TYP. HINGE DETAIL

S.3 DIRECTLY INTO METAL CONNECTION DETAIL

FL# 46343.1

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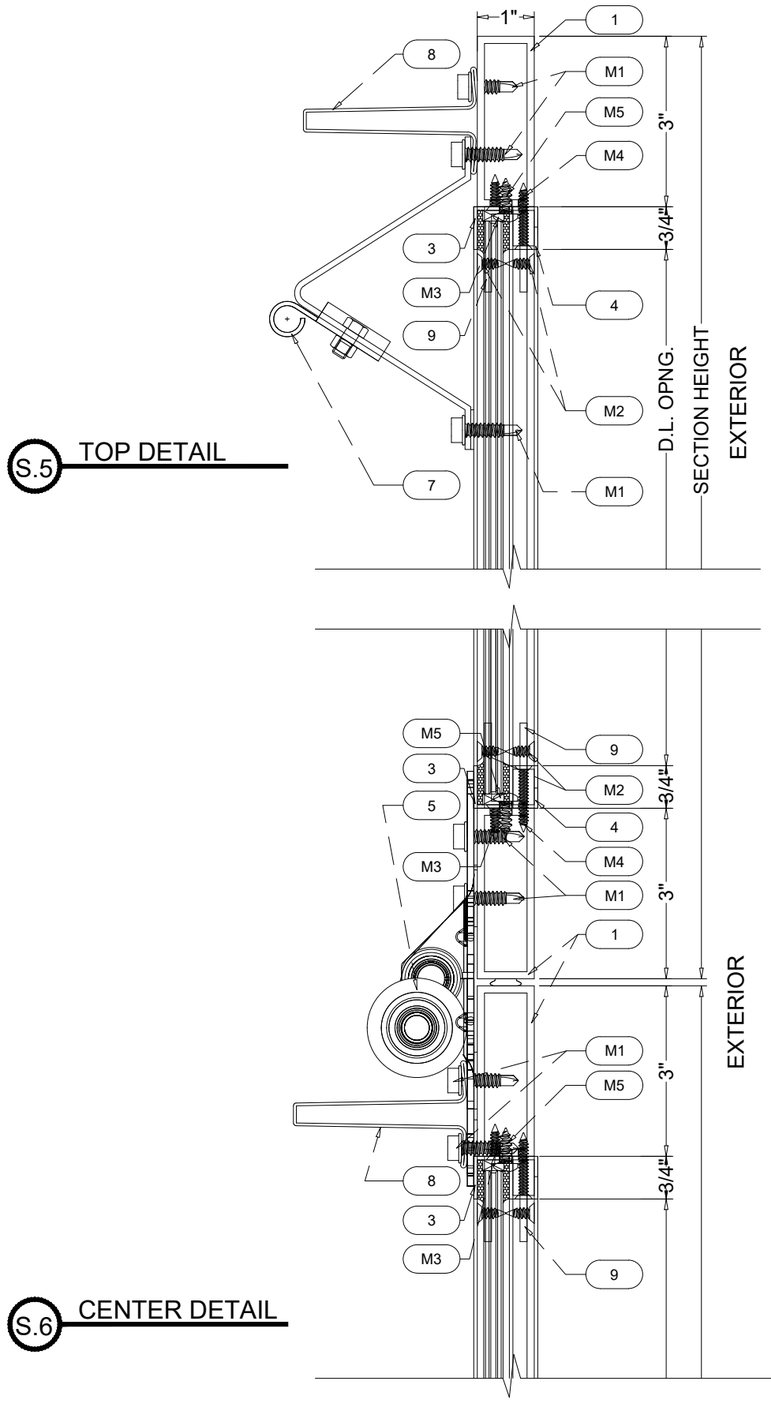
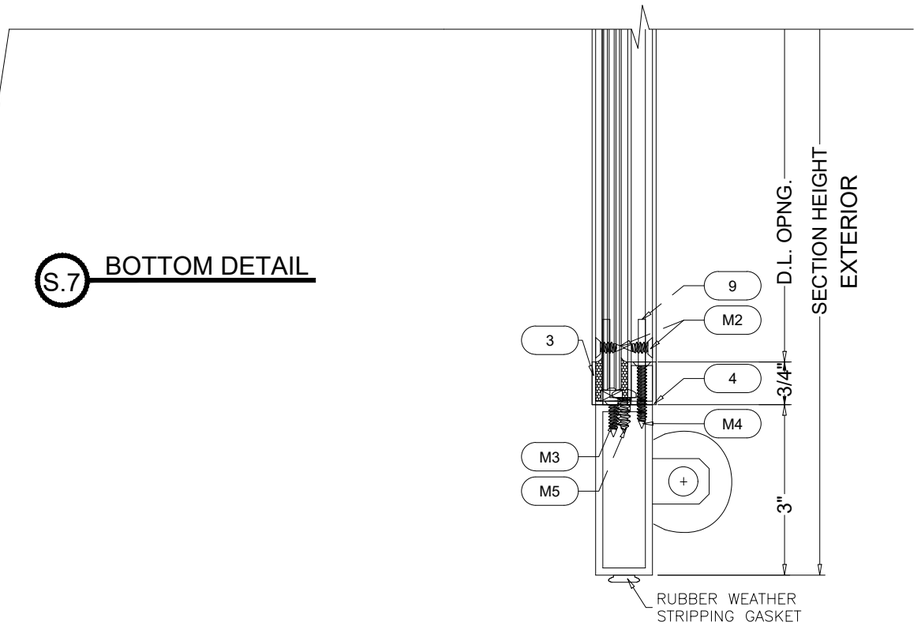
SEC. DETAILS

SHEET No.
06 OF 10



S.5 TOP DETAIL

S.6 CENTER DETAIL



S.7 BOTTOM DETAIL

FL# 46343.1

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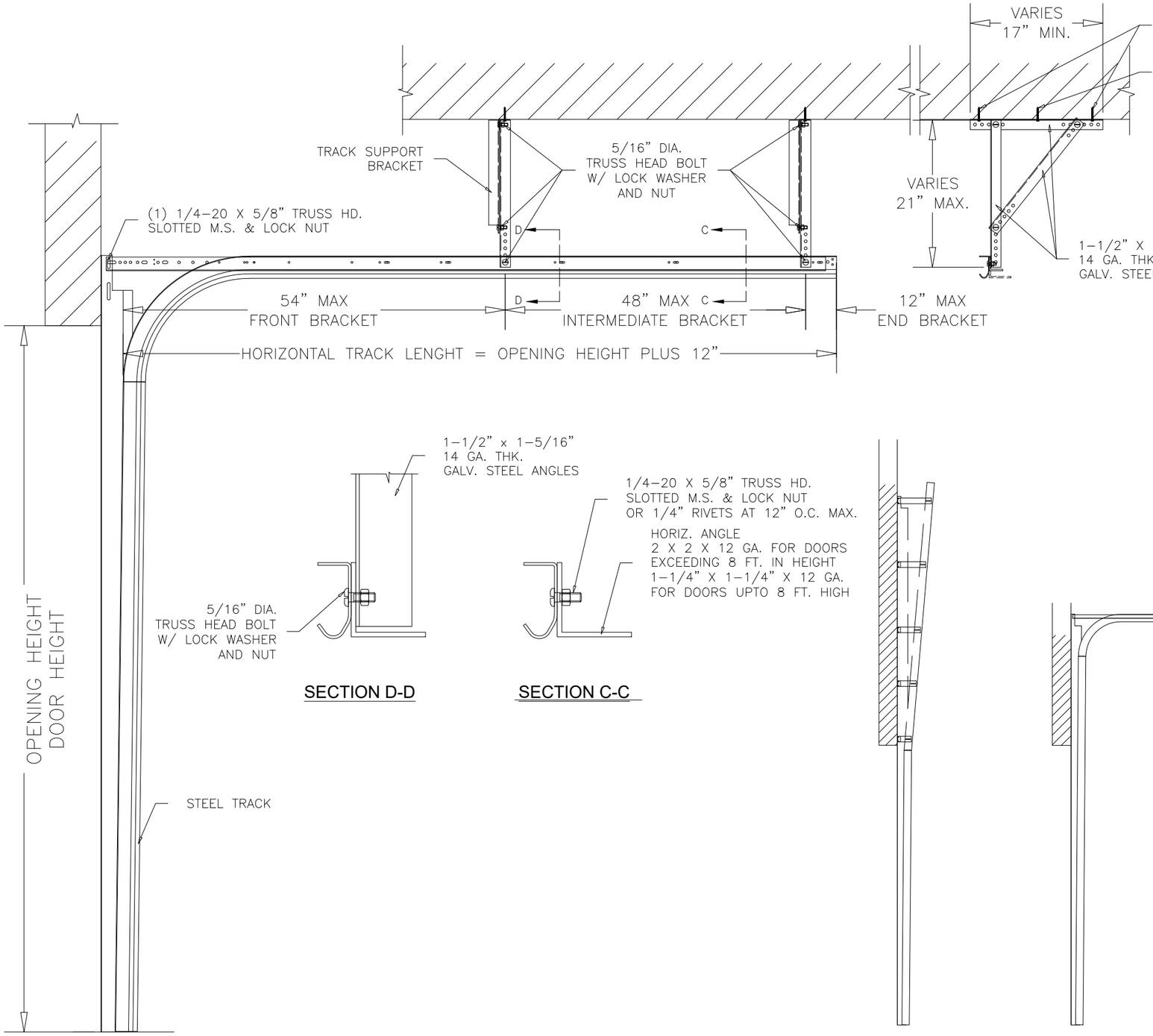
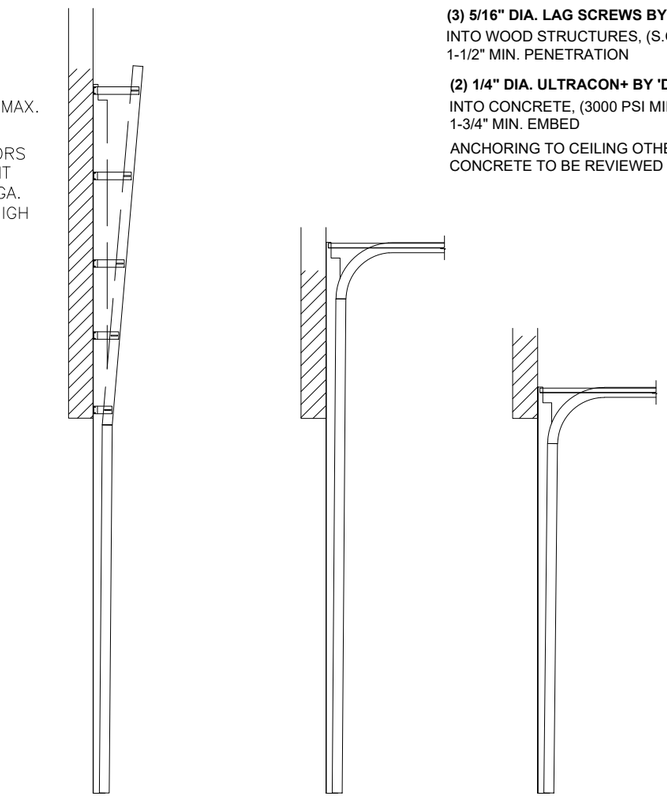
07 OF 10



TRACK DETAIL

SECTION D-D

SECTION C-C



VERTICAL LIFT HIGH LIFT STANDARD LIFT

AVAILABLE TRACK OPTIONS

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 OF2 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.

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.

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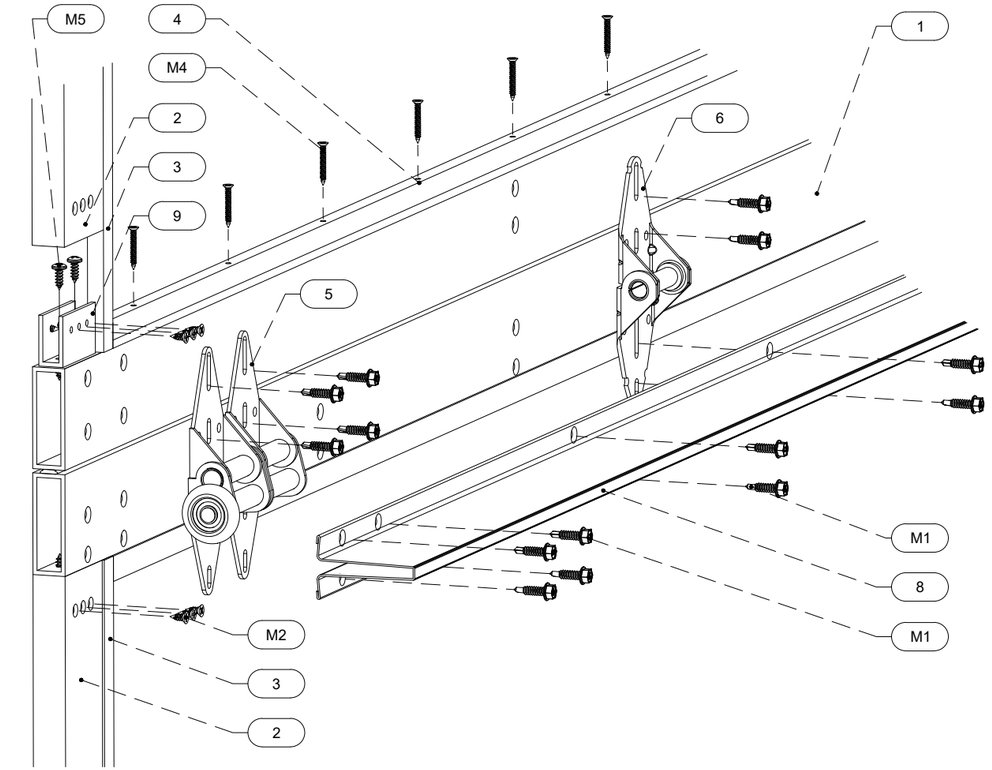
TRACK OPT.

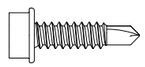
SHEET No.
08 OF 10

BILL OF MATERIAL

Sr.	WEIGHT	QUANTITY	DESCRIPTION	MATERIAL	MANF / SUPPLIER / REMARKS
1	-	AS REQ.	TOP/BOTTOM FRAME PROFILE	6061-T6 ALLOY	NEAL GARAGE DOORS
2	-	AS REQ.	VERTICAL FRAME PROFILE	6061-T6 ALLOY	NEAL GARAGE DOORS
3	-	AS REQ.	INTERIOR GLASS HOLDER	6061-T6 ALLOY	NEAL GARAGE DOORS
4	-	AS REQ.	EXTERIOR GLASS HOLDER	6061-T6 ALLOY	NEAL GARAGE DOORS
5	-	AS REQ.	ROLLER HINGE	GAL. STEEL	NEAL GARAGE DOORS
6	-	AS REQ.	CENTER HINGE	GAL. STEEL	NEAL GARAGE DOORS
7	-	AS REQ.	TOP FIXTURE	GAL. STEEL	NEAL GARAGE DOORS
8	-	AS REQ.	REINF. TRUSS	GAL. STEEL	NEAL GARAGE DOORS
9	-	AS REQ.	U-CLIP	GAL. STEEL	NEAL GARAGE DOORS
10	-	AS REQ.	1" X 2" X 14 GA TRACK	GAL. STEEL	NEAL GARAGE DOORS
11	-	AS REQ.	3" X 3" X 1/8" ANGLE	GAL. STEEL	NEAL GARAGE DOORS
M1	-	AS REQ.	EXTERNAL HEX HEAD DRILLING SCREWS FOR METAL, ZINC-PLATED STEEL, 1/4" SIZE, 1" LONG	410 STAINLESS STEEL	-
M2	-	AS REQ.	PHILLIPS FLAT HEAD SCREWS FOR SHEET METAL NUMBER 10 SIZE, 1/2" LONG	316 STAINLESS STEEL	-
M3	-	AS REQ.	PHILLIPS FLAT HEAD SCREWS FOR SHEET METAL NUMBER 8 SIZE, 5/8" LONG	316 STAINLESS STEEL	-
M4	-	AS REQ.	PHILLIPS FLAT HEAD SCREWS FOR SHEET METAL NUMBER 8 SIZE, 1-1/4" LONG	316 STAINLESS STEEL	-
M5	-	AS REQ.	PHILLIPS ROUNDED HEAD SCREWS FOR SHEET METAL, ZINC-PLATED STEEL, NUMBER 12 SIZE, 5/8" LONG	410 STAINLESS STEEL	-
M6	-	AS REQ.	5/16" DIA. ULTRACON BY DEWALT	-	DEWALT
M7	-	AS REQ.	3/8" DIA. KWIK BOLT 3 EXPANSION ANCHOR	-	HILTI
M8	-	AS REQ.	5/16" DIA. DRIL-FLEX ANCHORS	410 STAINLESS STEEL	-
M9	-	AS REQ.	5/16" DIA. LAG SCREWS BY DEWALT	STEEL	DEWALT



INSTALLATION DETAIL



M1 1/4" DIA. TEK SCREW
SCALE = 6" = 1'-0"

M4 #8 X 1-1/4" FH SMS SCREW
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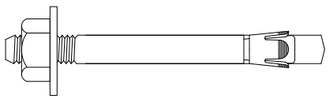
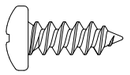
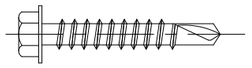


M7 3/8" DIA. KWIK BOLT 3 EXP. ANCHOR
SCALE = 6" = 1'-0"

M2 #10 X 1/2" FH SMS SCREW
SCALE = 6" = 1'-0"

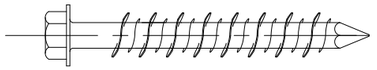


M5 #12 X 5/8" PH SMS SCREW
SCALE = 6" = 1'-0"



M8 5/16" DIA. DRILL-FLEX
SCALE = 6" = 1'-0"

M3 #8 X 5/8" FH SMS SCREW
SCALE = 6" = 1'-0"



M6 5/16" DIA. ULTRACON
SCALE = 6" = 1'-0"

M9 5/16" DIA. LAG SCREW
SCALE = 6" = 1'-0"

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER
Javad Ahmad
2024.01.02
17:22:29
-05'00'

FL# 46343.1

JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL
33172
Ph: (305) 424-8001
contact@ja-pe.com
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HIALEAH, FL 33013, USA
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REVISION

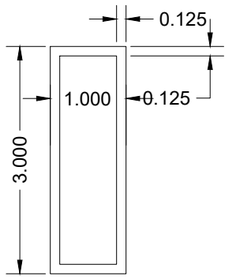
No.	DATE	BY	DESCRIPTION

date: 11-16-2023	scale:	drawn by: H.T.	check by: E.G.	DRAWING NO. JA-1923-22

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

INST. DETAIL

SHEET No. 09 OF 10



1 TOP/BOTTOM FRAME
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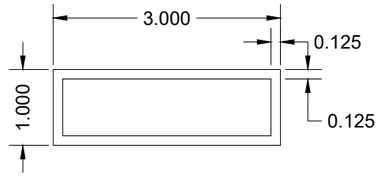

2 VERTICAL FRAME
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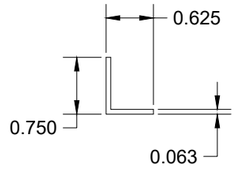

3 INT. GLASS HOLDER
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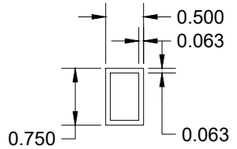

4 EXT. GLASS HOLDER
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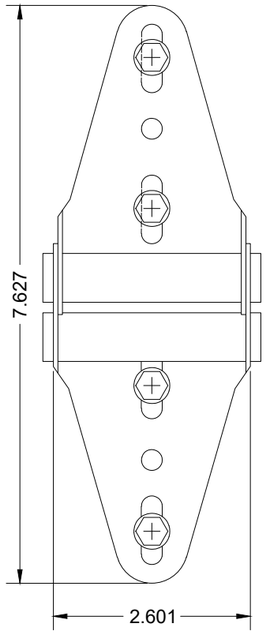

5 ROLLER HINGE
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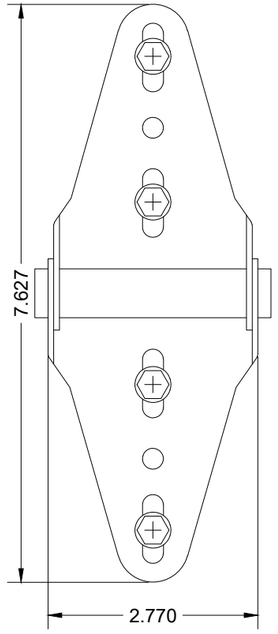

6 CENTER HINGE
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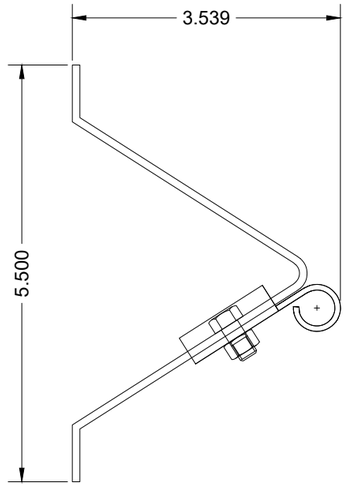

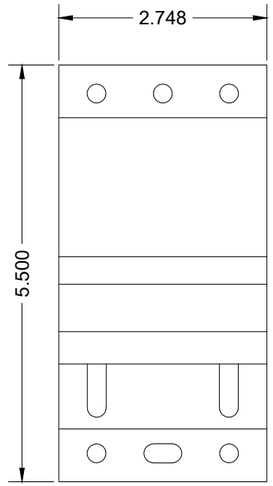

7 TOP FIXTURE
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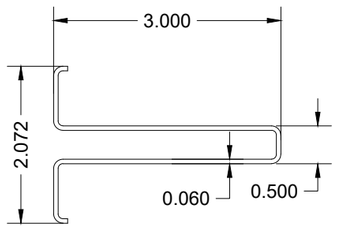

8 REINF. TRUSS
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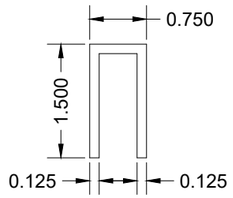

9 U-CLIP
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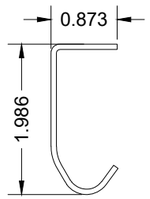
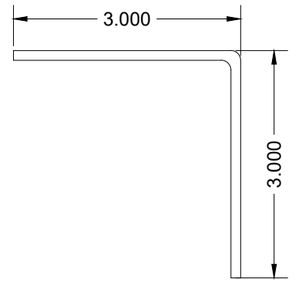


10 1"X2"X14 GA TRACK
SCALE = 6" = 1'-0"



11 3" X 3" X 1/8" ANGLE
SCALE = 6" = 1'-0"

Javad Ahmad
2024.01.02
17:22:29
-05'00'

FL# 46343.1

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REVISION

No.	DATE	BY	DESCRIPTION

date:	11-16-2023		H.T.	E.G.	DRAWING NO. JA-1923-22
scale:		drawn by:		check by:	

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

PROFILES

SHEET No.
10 OF 10