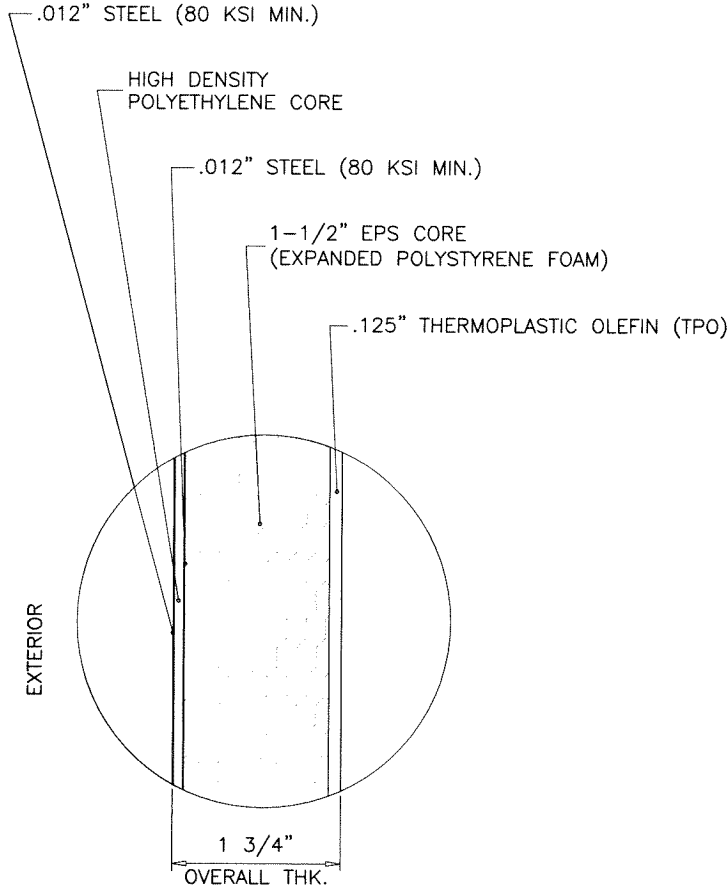


DOOR HEIGHT	NUMBER OF SECTIONS REQD.	
	21" SECTIONS	24" SECTIONS
5'-3"	3	0
7'-0"	4	0
7'-6"	2	2
8'-0"	0	4
8'-9"	5	0
9'-0"	4	1
10'-0"	0	5
11'-0"	4	2
12'-0"	0	6
13'-0"	4	3
14'-0"	0	7
7'-9"	1	3
9'-3"	3	2
9'-6"	2	3
10'-6"	6	0
10'-9"	5	1
11'-6"	2	4
11'-9"	1	5
12'-6"	6	1
12'-9"	5	2



COMPOSITE SECTION DETAIL
EXTERIOR FINISHES HIGH GLOSS POLYSTER PAINT

THESE DOORS ARE RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

DOOR TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA
BUILDING CODE, TAS-202, TAS-201 & TAS-203 FOR HVHZ.

Series 'DuraFlex' (8'-2")
High Impact Sectional Garage Door

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA
BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND
INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE
BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.

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- A- 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.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.
- C- 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.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

DuraFlex 8'-2" High Impact Sectional Garage Door

DuraServ Corp.
11431 Ferrell Drive, Suite 200
Farmers Branch, TX 75234
Tel: (800) 994-2361 Fax: (-)

revisions.					
	no	date	by	description	
	A	10.13.23		UPDATED TO 2023 FBC	

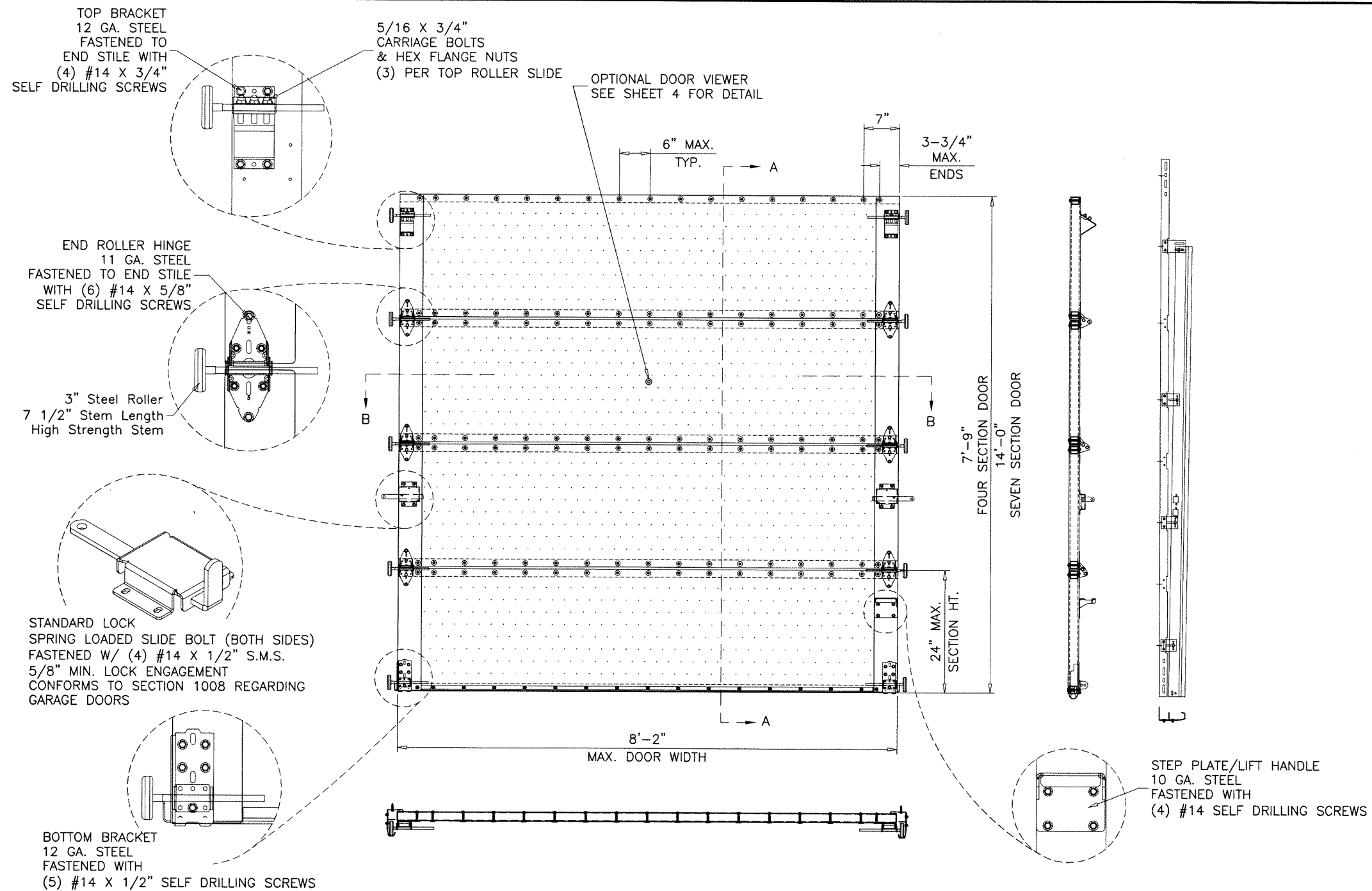
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dr. by:	TARIQ
chk. by:	

drawing no.

20-84F

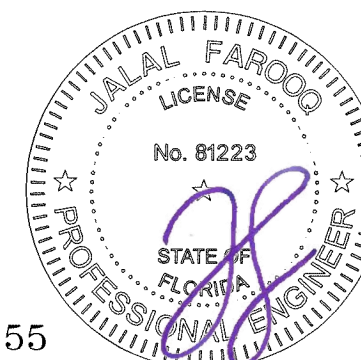
sheet 1 of 6

GARAGE\20-84F-DSC



INSIDE ELEVATION

MAXIMUM DESIGN LOAD RATING = + 61.5 PSF
(FOR DOOR SIZE SHOWN OR SMALLER) - 69.5 PSF



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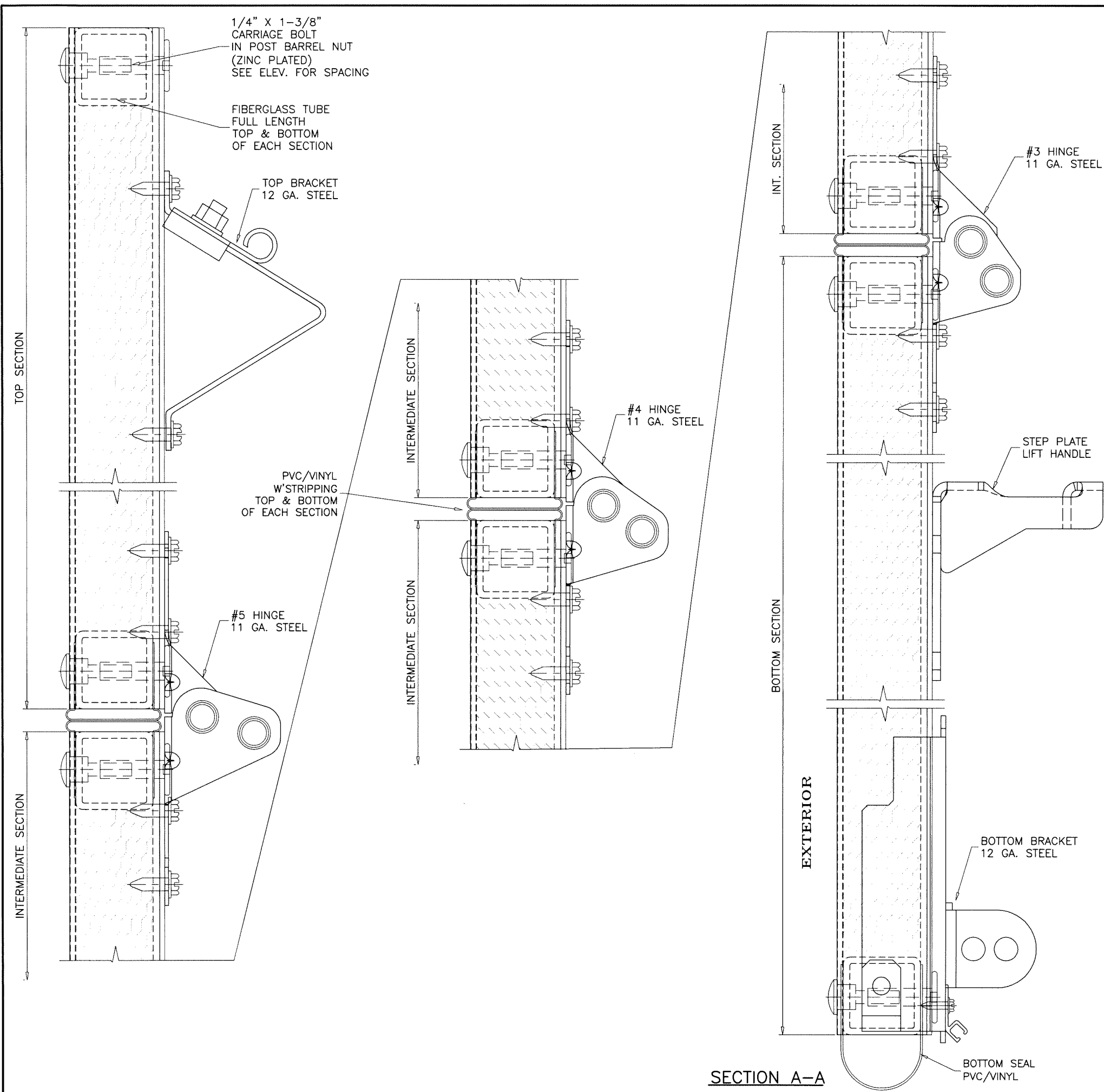
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GARAGE/20-84F-DSC

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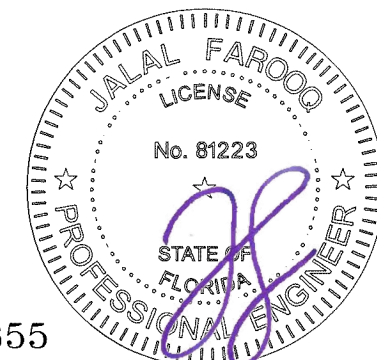
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dr. by: TARIQ		dr. by: TARIQ		dr. by: TARIQ	
chk. by:		chk. by:		chk. by:	
drawing no.		drawing no.		drawing no.	
20-84F		20-84F		20-84F	
sheet 2 of 6		sheet 2 of 6		sheet 2 of 6	



SECTION A-A

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revisions:	
no	date by description

date: 10-26-20

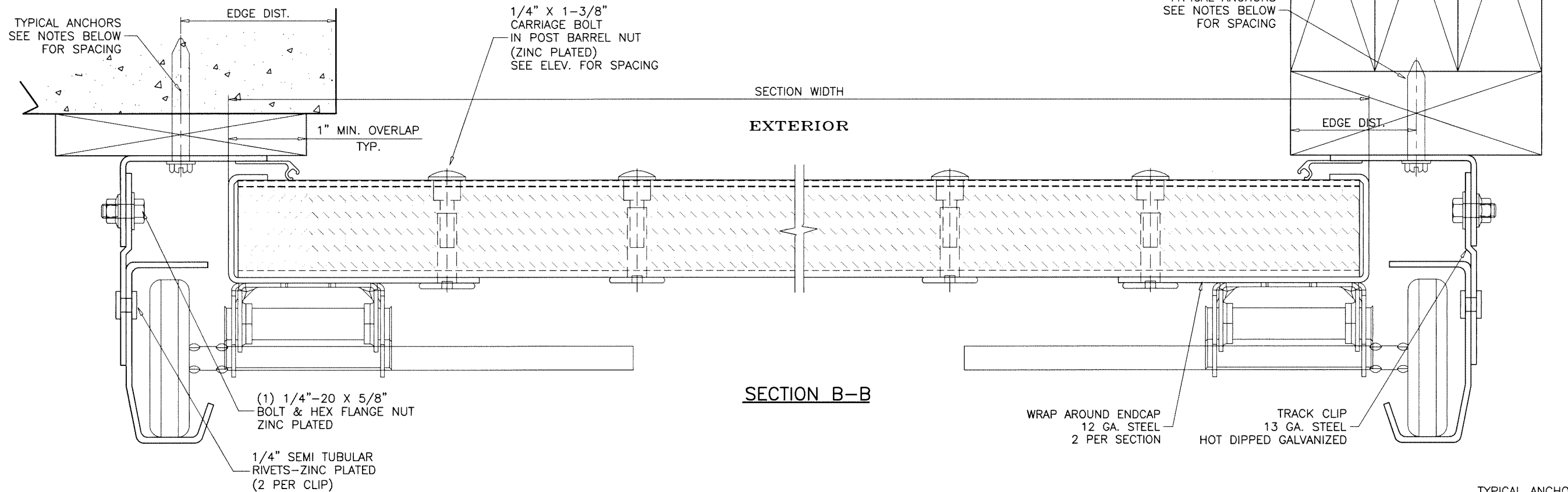
scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.
20-84F

sheet **3** of **6**



TYPICAL ANCHORS:

5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)

THRU 1BY OR 2BY BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE
AT 4" FROM BOTTOM AND 6" O.C. MAX.

DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE
AT 4" FROM BOTTOM AND 12" O.C. MAX.

3/8" DIA. KWIK BOLT-3 EXPANSION ANCHOR BY 'HILTI'

DIRECTLY INTO MASONRY
2-1/2" MIN. EMBED INTO GROUT-FILLED BLOCKS
AT 4" FROM BOTTOM AND 6" O.C. MAX.
4" MIN. EDGE DISTANCE

5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT' (GRADE 5 CRS)

INTO METAL STRUCTURES
AT 4" FROM BOTTOM AND 12" O.C. MAX.
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

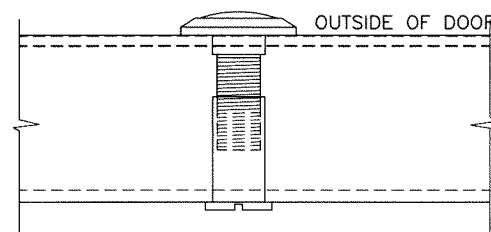
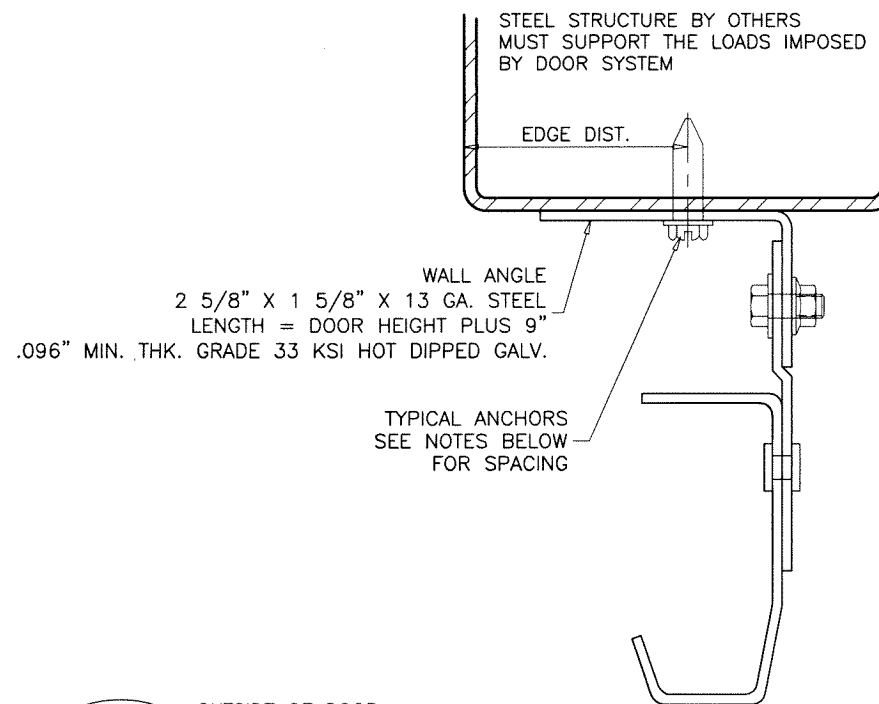
5/16" DIA. LAG SCREWS

INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
AT 4" FROM BOTTOM AND 6" O.C. MAX.

TYPICAL EDGE DISTANCE

INTO CONCRETE = 2-3/16" MIN.
INTO FILLED BLOCKS = 4" MIN.
INTO WOOD STRUCTURE = 1-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

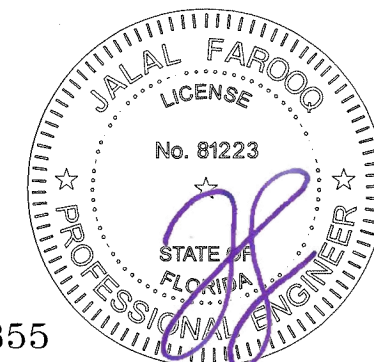
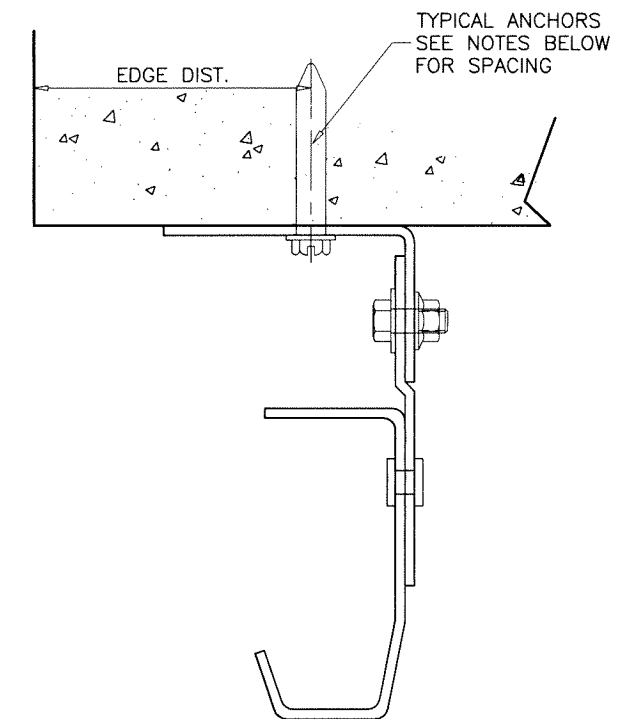
WOOD SG = 0.55 MIN.
CONCRETE f'_c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK f'_m = 2000 PSI MIN.



SOLID BRASS DOOR VIEWER
BY 'SCHLAGE SECURITY HARDWARE'
INSTALLED IN 9/16" DIA. HOLES
POSITIONED AT EYE LEVEL

WRAP AROUND ENDCAP
12 GA. STEEL
2 PER SECTION

TRACK CLIP
13 GA. STEEL
HOT DIPPED GALVANIZED



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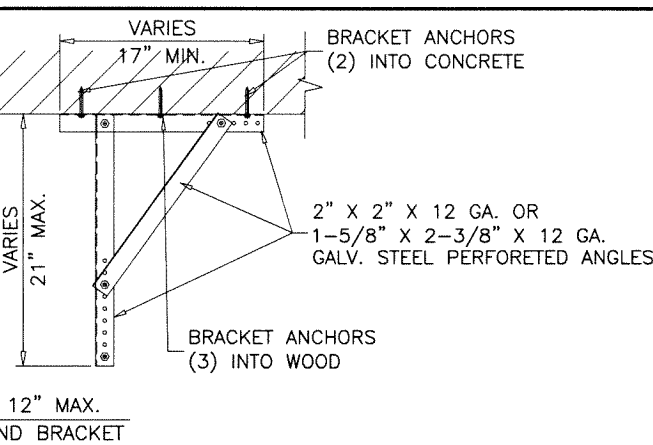
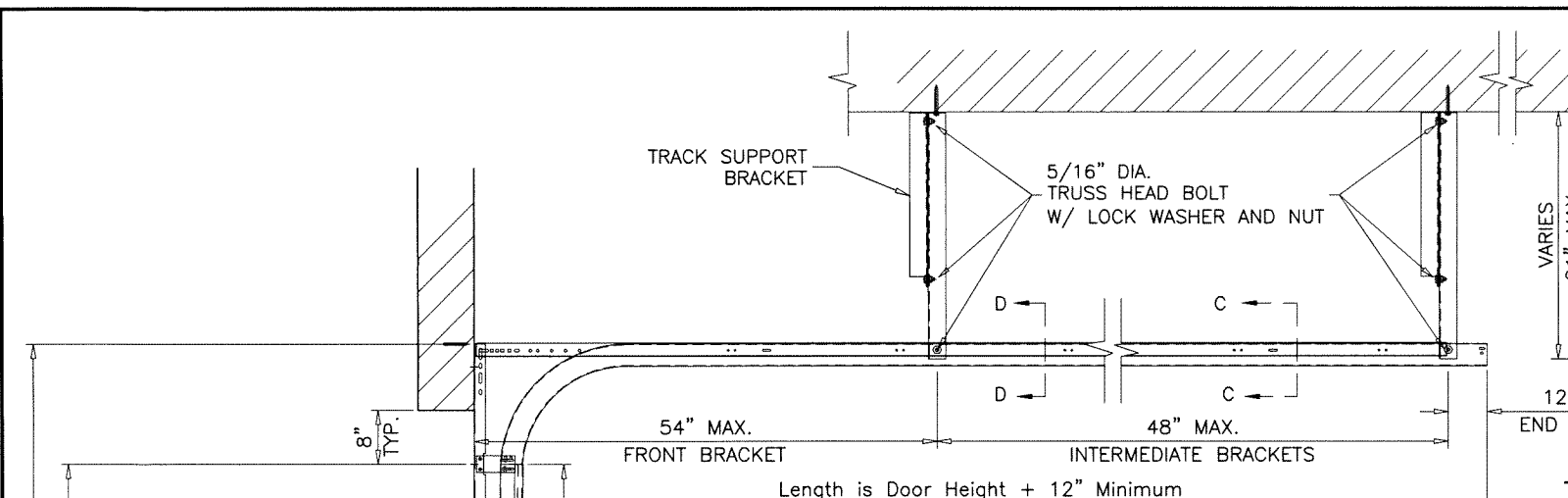
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GARAGE\20-84F-DSC

DuraFlex 8'-2" High Impact Sectional Garage Door

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Tel: (800) 994-2361 Fax: (-)

revisions:	
no	date by description

date: 10-26-20	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:	drawing no. 20-84F
				sheet 4 of 6



NOTE:
IT SHALL BE VERIFIED THAT THE CEILING STRUCTURE CAN SUSTAIN LOADS IMPOSED BY 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.

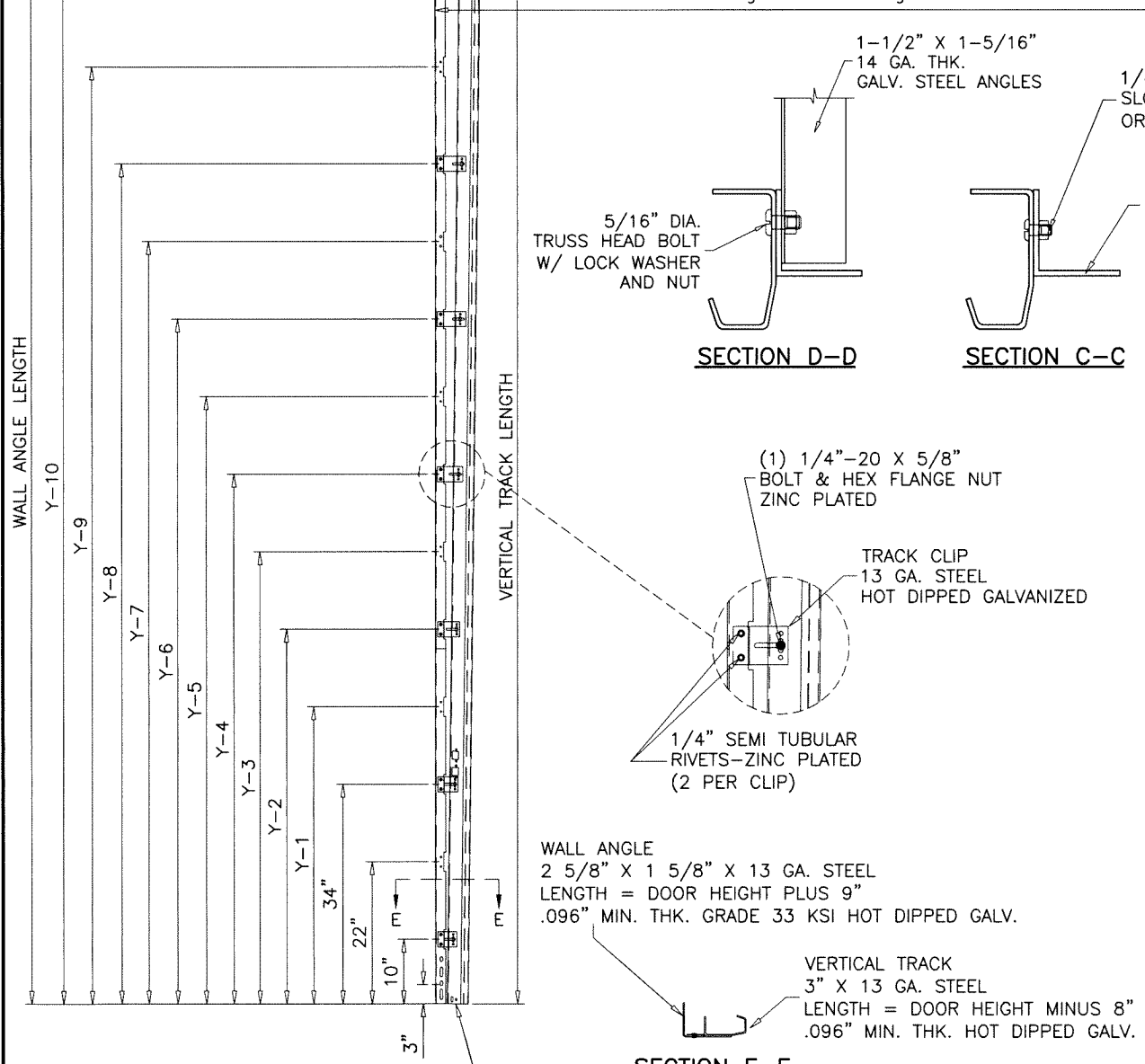
SUPPORT BRACKETS AT EACH TRACK

BRACKETS RUN PERPENDICULAR TO TRACKS
FRONT AND END BRACKETS TO BE SPACED AS SHOWN ABOVE.
ADDITIONAL INTERMEDIATE BRACKETS TO BE INSTALLED FOR SPACING MORE THAN 48" IN BETWEEN FRONT AND END BRACKETS.

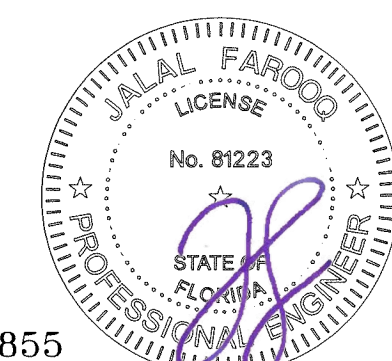
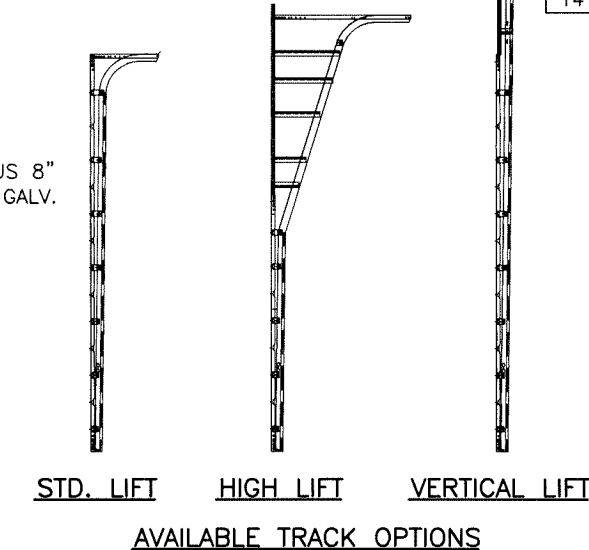
BRACKET ANCHORS:

(3) 5/16" DIA. LAG SCREWS
INTO WOOD STRUCTURES, (S.G.=0.50)
1-1/2" MIN. PENETRATION
(2) 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO CONCRETE, 3000 PSI MIN.
1-3/4" MIN. EMBED

ANCHORING TO CEILING OTHER THAN WOOD OR CONCRETE TO BE REVIEWED SEPARATELY.



DOOR HEIGHT	VERTICAL TRACK LENGTH	WALL ANGLE LENGTH	TRACK CLIP & ANCHOR SPACING									
			Y-1	Y-2	Y-3	Y-4	Y-5	Y-6	Y-7	Y-8	Y-9	Y-10
5' 3"	55"	72"	44"	55"	70"	NA	NA	NA	NA	NA	NA	NA
7' 0"	76"	93"	46"	58"	67"	76"	NA	NA	NA	NA	NA	NA
7' 6"	82"	99"	46"	58"	70"	82"	NA	NA	NA	NA	NA	NA
8' 0"	88"	105"	46"	58"	73"	88"	NA	NA	NA	NA	NA	NA
8' 9"	97"	114"	46"	58"	70"	82"	97"	NA	NA	NA	NA	NA
9' 0"	100"	117"	46"	58"	70"	82"	91"	100"	NA	NA	NA	NA
10' 0"	112"	129"	46"	58"	70"	82"	97"	112"	NA	NA	NA	NA
11' 0"	124"	141"	46"	58"	70"	82"	94"	106"	151"	124"	NA	NA
12' 0"	136"	153"	46"	58"	70"	82"	94"	106"	121"	136"	NA	NA
13' 0"	148"	165"	46"	58"	70"	82"	94"	106"	118"	130"	139"	148"
14' 0"	160"	177"	46"	58"	70"	82"	94"	106"	118"	130"	145"	160"



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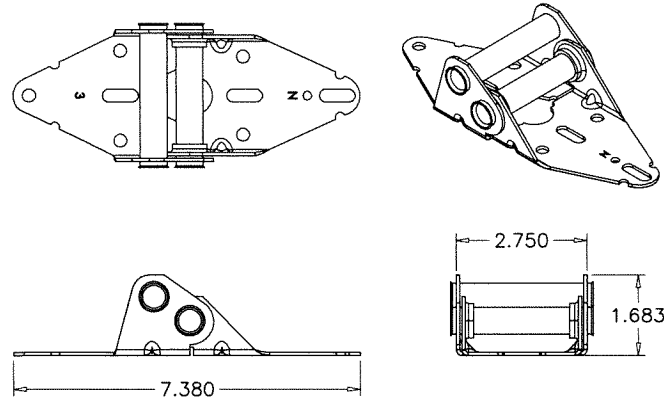
DuraFlex 8'-2" High Impact Sectional Garage Door

DuraServ Corp.
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Tel: (800) 994-2361 Fax: (-)

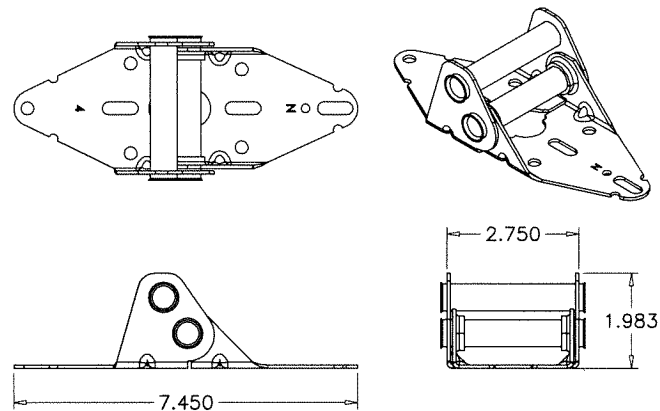
revisions:
no date by description

date: 10-26-20
scale: -
dr. by: TARIQ
chk. by:

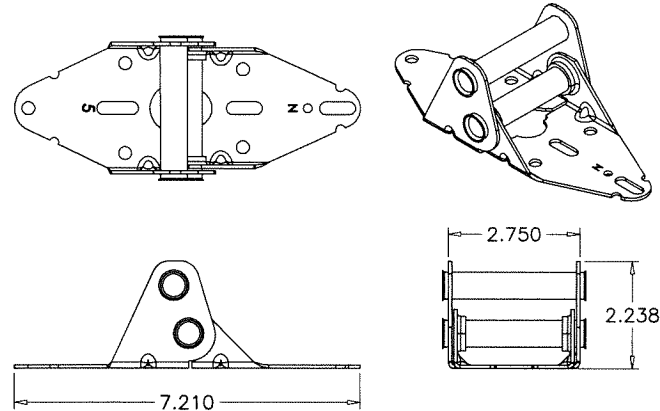
drawing no.
20-84F
sheet 5 of 6



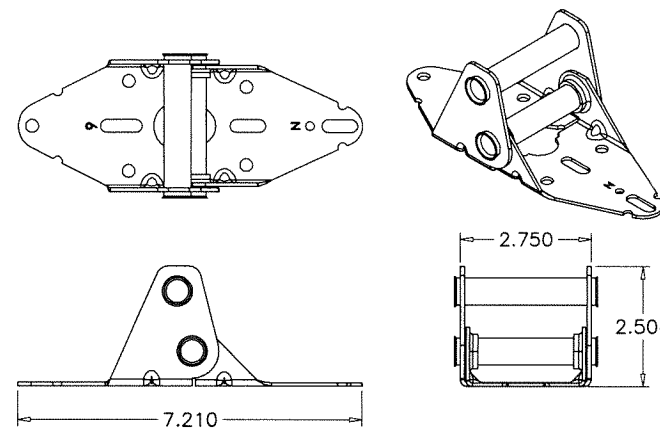
#3 HINGE (11 GA. STEEL)



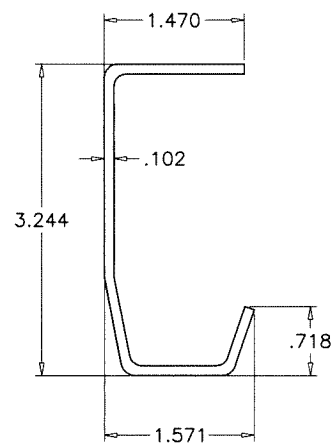
#4 HINGE (11 GA. STEEL)



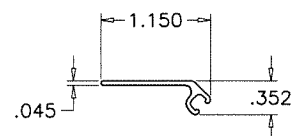
#5 HINGE (11 GA. STEEL)



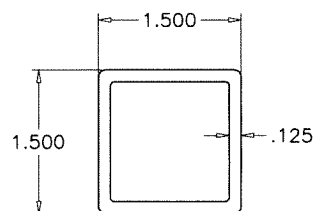
#6 HINGE (11 GA. STEEL)



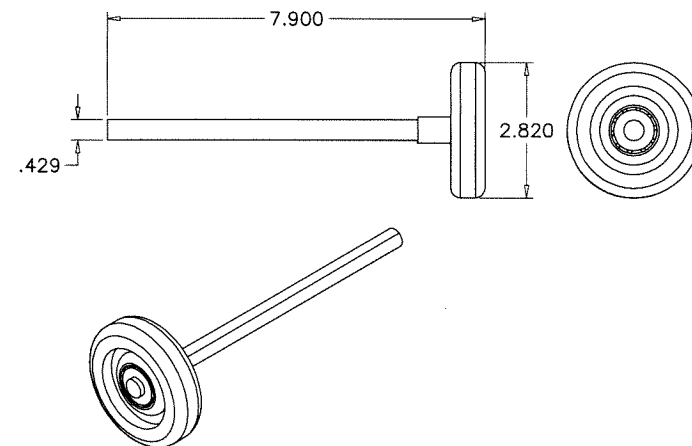
TRACK
13 GA. STEEL
SCALE 1/2" = 1"



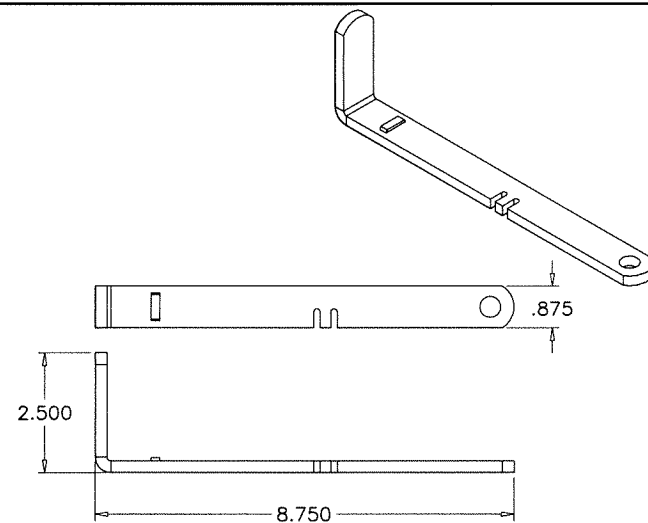
SEAL RETAINER
6063-T6
SCALE 1/2" = 1"



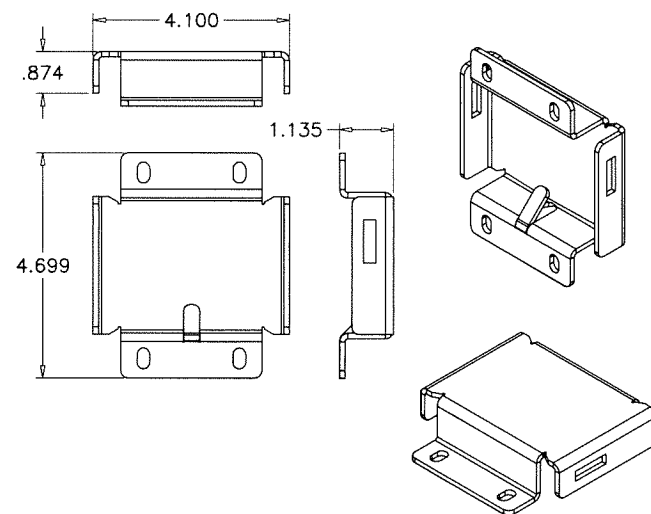
SECTION TOP/BOTTOM TUBE
PULTRUDED FIBERGLASS
SCALE 1/2" = 1"



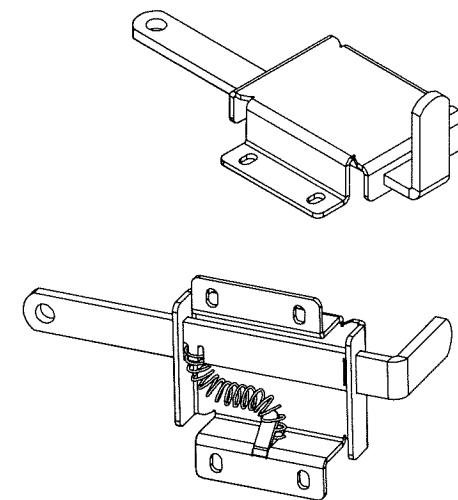
HURRICANE ROLLER-DF



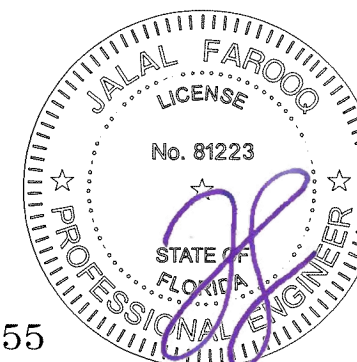
SLIDE LOCK HANDLE



SLIDE LOCK BOX



SLIDE LOCK ASSEMBLY



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