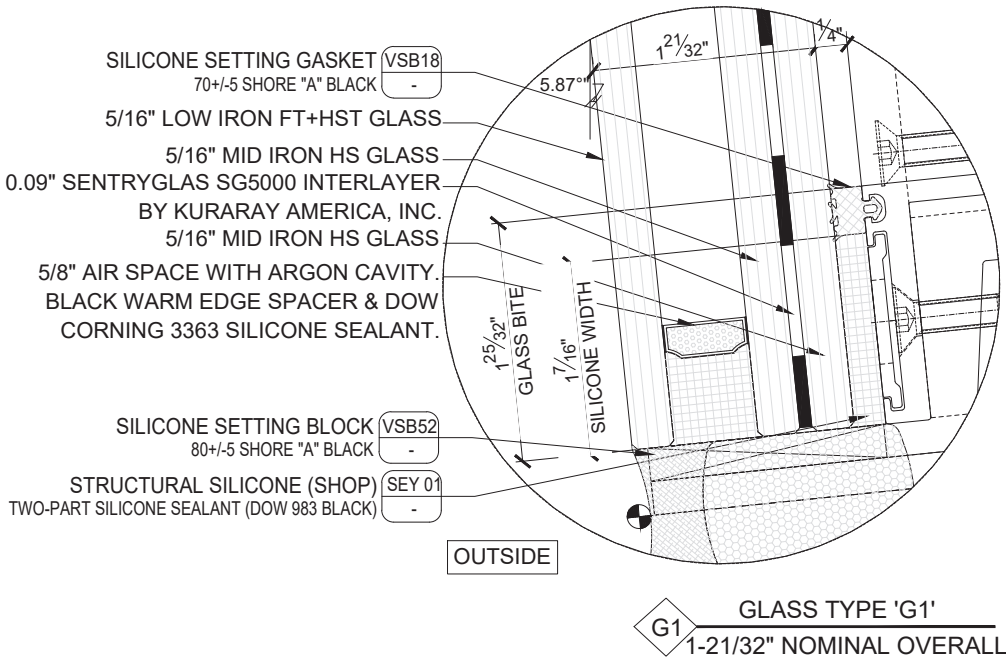


PERMASTEELISA NORTH AMERICA CORP
EWS-102 GLASS CURTAIN WALL SYSTEM
LARGE MISSILE IMPACT



NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- CURTAIN WALLS ARE RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE CURTAIN WALLS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 SECTION AS APPLICABLE.
- METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING PLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET 02 & 03 FOR APPROVED TYPICAL ELEVATION & DESIGN LOAD.

LIMITATIONS OF USE	
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.
E-	THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:	
FL47359.4	

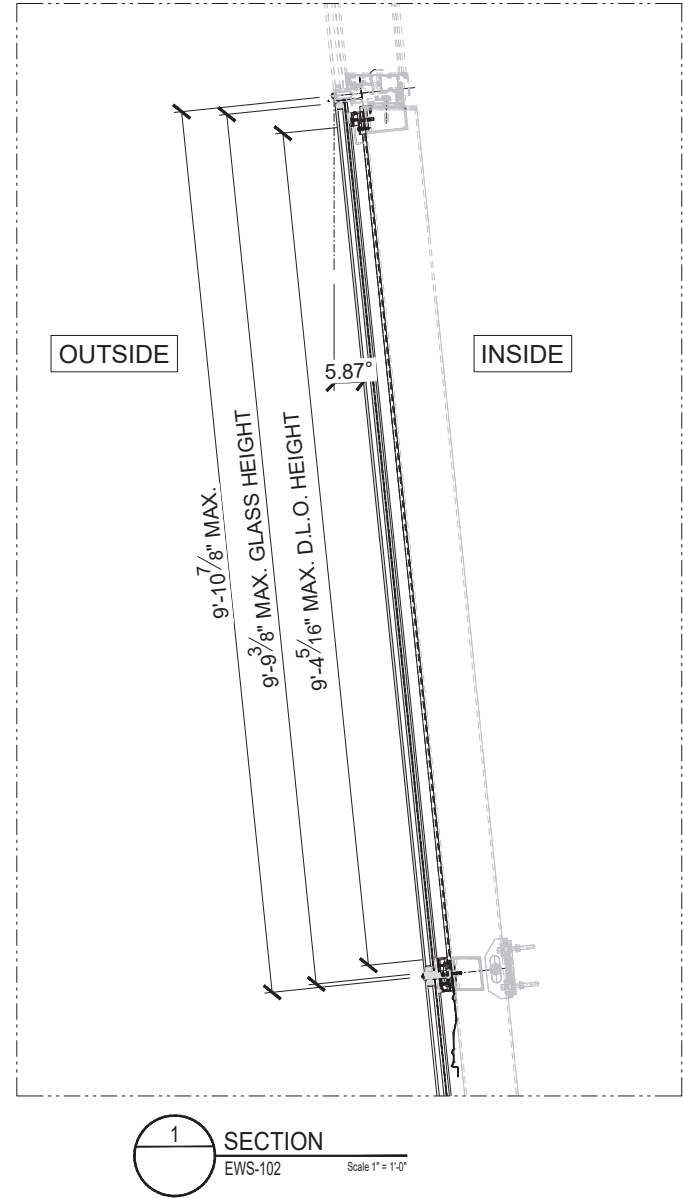
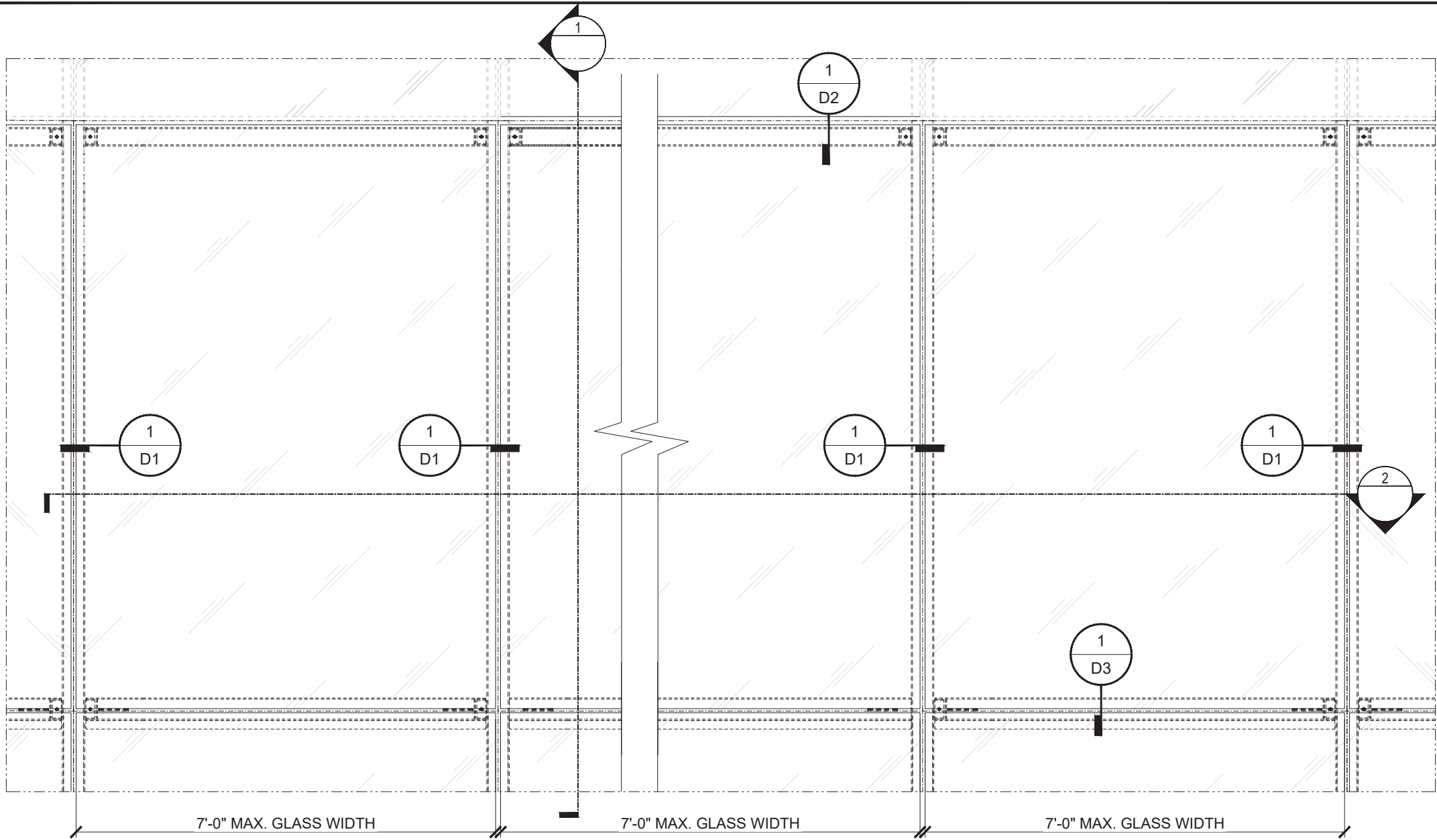
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Sheet No. 01 OF 11	

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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MIRAMAR, FL 33027
P: 305.588.5224
www.MCYEngineering.com
mcy@mcyengineering.com

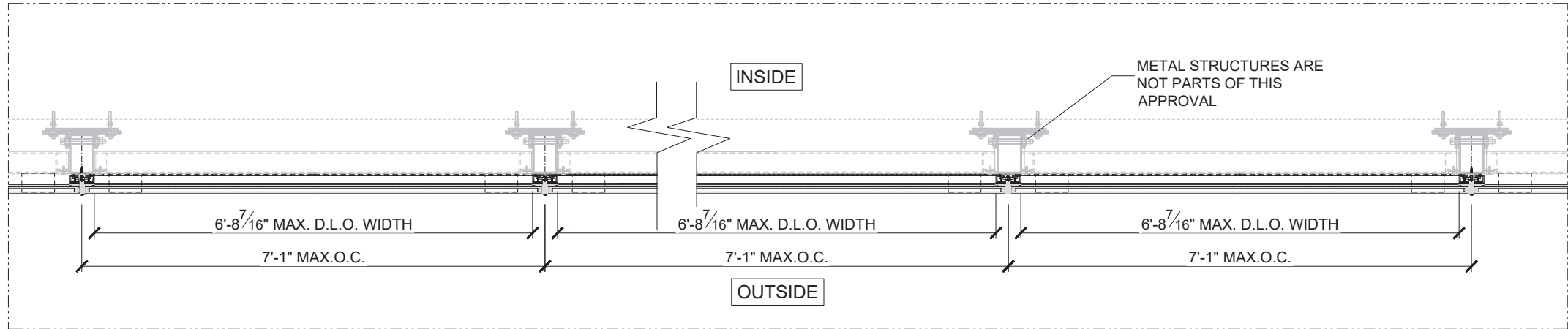
EWS-102 GLASS CURTAIN WALL SYSTEM - LMI

PERMASTEELISA NORTH AMERICA CORP
1300 HALL BLVD, SUITE 1A, BLOOMFIELD, CT 06002, UNITED STATES
Ph.:+1 860 298 2000 - FAX:+1 860 298 2009
pna-info@permasteelisaagroup.com



TYPICAL EXTERIOR ELEVATIONS

DESIGN WIND LOAD: +60psf/-75psf
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC.



2 PLAN
EWS-102
Scale 1" = 1'-0"

FLORIDA APPROVAL:
FL47359.4

YIPING WANG
PROFESSIONAL ENGINEER
FLORIDA
LICENSE
No 55983
November 03rd, 2025

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Rev. No.	Date	Drawn By	Description
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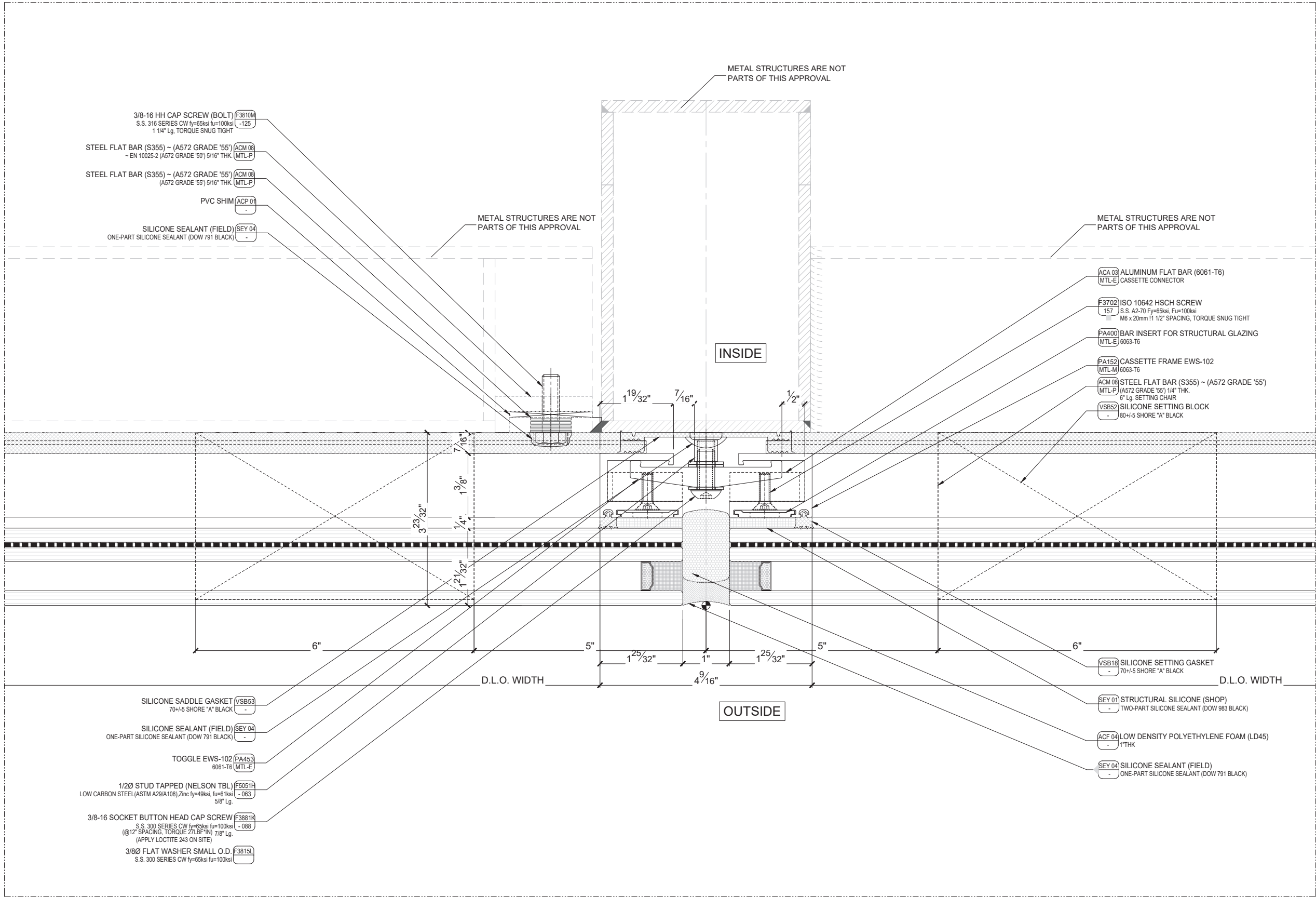
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11.03.2025

SCALE
AS SHOWN

DRAWING NO.
AD25-07

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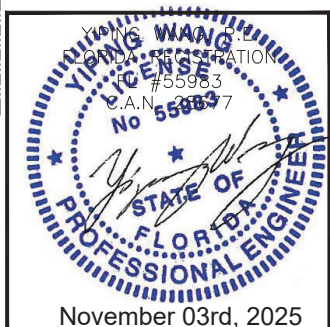
Sheet No.
02 OF 11



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DETAIL

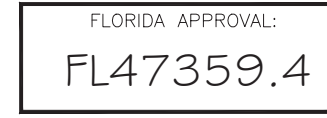
FLORIDA APPROVAL:
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EWS-102 GLASS CURTAIN WALL SYSTEM - LMI

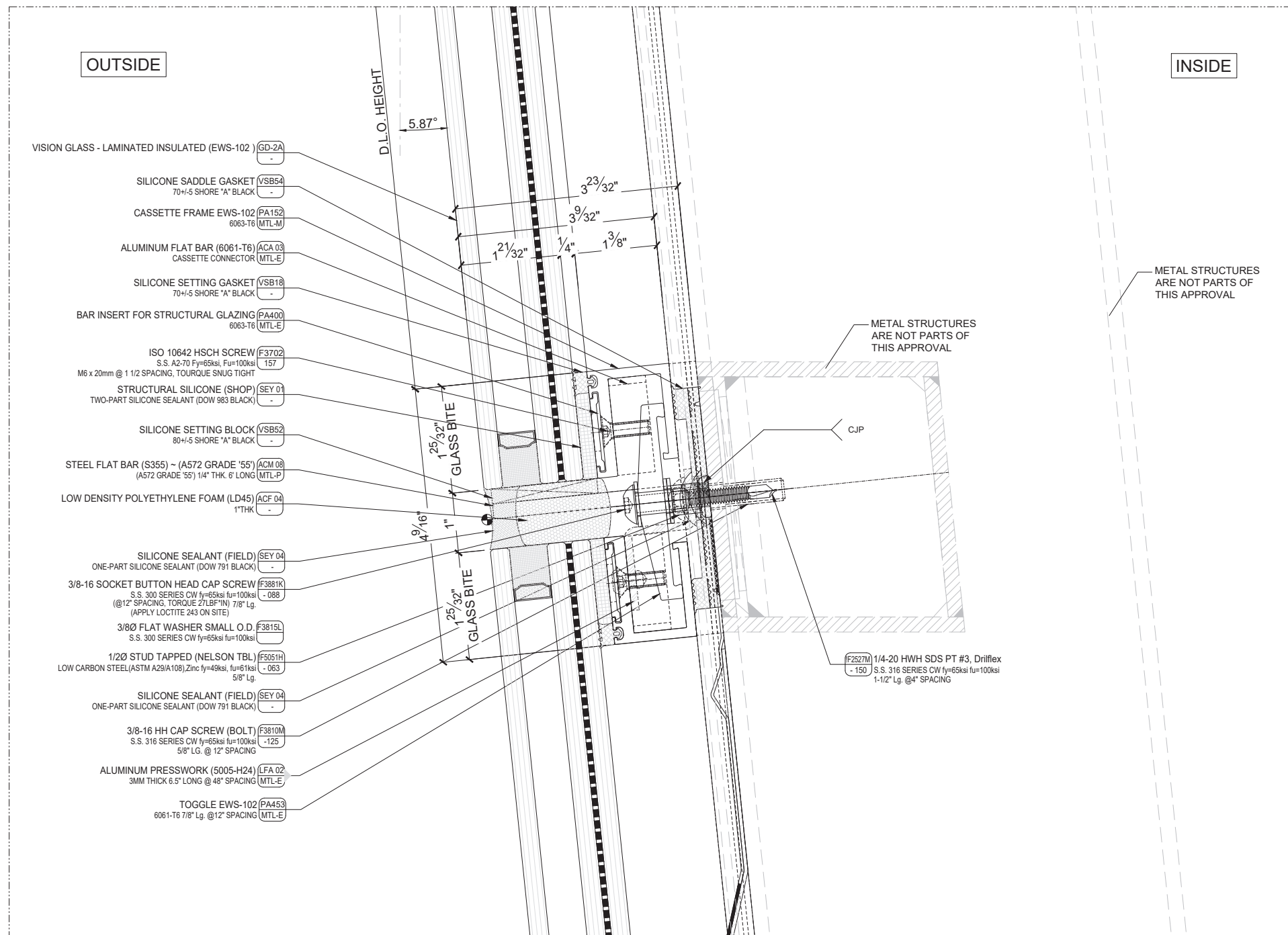
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www.MCYEngineering.com mcy@mcyengineering.com



1 DETAIL
D3

Ying Wang, P.E.
 C.A.N. REGISTRATION
 #55963
 C.A.N. 559637
 No 55963
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

November 03rd, 2025

FLORIDA APPROVAL:
FL47359.4



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GLAZING CONSULTANTS

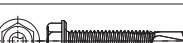
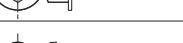
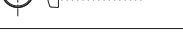
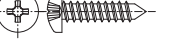
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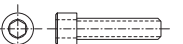
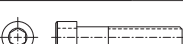
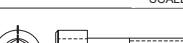
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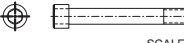
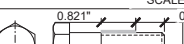
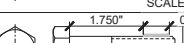
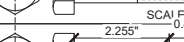
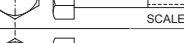
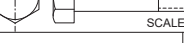
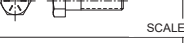
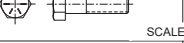
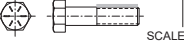
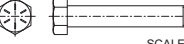
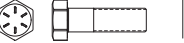
EWS-102 GLASS CURTAIN WALL SYSTEM - LMI

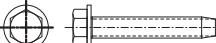
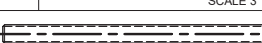
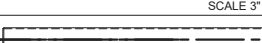
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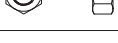
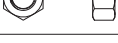
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FASTENERS			
MARK #	DESCRIPTION	PICTURE	DETAIL REF.
F14402 - 175	ST6.3x45 ISO 14585-F TSPH S.S. A2-28H (ISO 3506-4) fy=65ksi, fu=100ksi 1-3/4" Lg.		SCALE 9" = 1'-0"
F2537K - 250	1/4-20 HWH STS TYPE F S.S. 300 SERIES CW fy=65ksi fu=100ksi 2-1/2" Lg.		SCALE 6" = 1'-0"
F2537K - 300	1/4-20 HWH STS TYPE F S.S. 300 SERIES CW fy=65ksi fu=100ksi 3" Lg.		SCALE 6" = 1'-0"
F1027B - 075	#10-16 HWH SDS PT #3, Drillflex ALLOY STEEL, Stalgard 3/4" Lg.		
F1227M - 100	#12-14 HWH SDS PT #3, Drillflex S.S. 316 SERIES CW fy=65ksi fu=100ksi 1" Lg.		
F1227M - 150	#12-14 HWH SDS PT #3, Drillflex S.S. 316 SERIES CW fy=65ksi fu=100ksi 1-1/2" Lg.		
F2527M - 150	1/4-20 HWH SDS PT #3, Drillflex S.S. A4-70 fy=65ksi fu=100ksi 1-1/2" Lg.		
F2527M - 175	1/4-20 HWH SDS PT #3, Drillflex S.S. A4-70 fy=65ksi fu=100ksi 1-3/4" Lg.		
F2527B - 200	1/4-20 HWH SDS PT #4, Drillflex ALLOY STEEL, Stalgard 2" Lg.		
F3127M - 150	5/16-18 HWH SDS PT #3, Drillflex S.S. 316 SERIES CW fy=65ksi fu=100ksi 1-1/2" Lg.		
F1026K - 100	#10-16 P/PH SDS PT #3 S.S. 300 SERIES CW fy=65ksi fu=100ksi 1" Lg.		
F1026K - 150	#10-16 P/PH SDS PT #3 S.S. 300 SERIES CW fy=65ksi fu=100ksi 1-1/2" Lg.		
F0804M - 100	#8 P/FH STS TYPE AB S.S. 316 SERIES CW fy=65ksi fu=100ksi 1" Lg.		
F1228K - 075	#12-14 P/UCFH SDS PT #3, Drillflex S.S. 300 SERIES CW fy=65ksi fu=100ksi 3/4" Lg.		
F1228M - 125	#12-14 P/UCFH SDS PT #3, Drillflex S.S. 316 SERIES CW fy=65ksi fu=100ksi 1-1/4" Lg.		
F1228K - 150	#12-14 P/UCFH SDS PT #3, Drillflex S.S. 300 SERIES CW fy=65ksi fu=100ksi 1-1/2" Lg.		
F1402K - 100	#14 P/PH STS Type AB S.S. 300 SERIES CW fy=65ksi fu=100ksi 1" Lg.		
F1402K - 200	#14 P/PH STS Type AB S.S. 300 SERIES CW fy=65ksi fu=100ksi 2" Lg.		

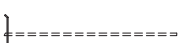
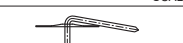
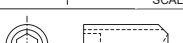
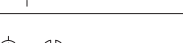
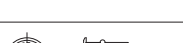
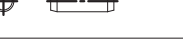
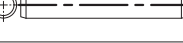
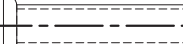
MACHINE SCREWS & BOLTS			
F2511K - 100	1/4-20 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 1" Lg.		
F2511K - 250	1/4-20 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 2-1/2" Lg.		SCALE 6" = 1'-0"
F5011K - 250	1/2-13 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 2-1/2" Lg.		SCALE 6" = 1'-0"
F5011K - 450	1/2-13 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 4-1/2" Lg.		SCALE 3" = 1'-0"
F7511K - 300	3/4-10 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 3" Lg.		SCALE 6" = 1'-0"

MACHINE SCREWS & BOLTS			
MARK #	DESCRIPTION	PICTURE	DETAIL REF.
F7511K - 650	3/4-10 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 6-1/2" Lg.		SCALE 3" = 1'-0"
F7511K - 750	3/4-10 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 7-1/2" Lg.		SCALE 3" = 1'-0"
F7579K - X12	3/4-10 HSH CAP SCREW (BOLT) S.S. 300 SERIES CW fy=65ksi fu=100ksi 12" Lg.		SCALE 3" = 1'-0"
F3810M - 125	3/8-16 HH CAP SCREW (BOLT) S.S. 316 SERIES CW fy=65ksi fu=100ksi 1-1/4" Lg.		
F3810M - 300	3/8-16 HH CAP SCREW (BOLT) S.S. 316 SERIES CW fy=65ksi fu=100ksi 3" Lg.		SCALE 6" = 1'-0"
F3810M - 400	3/8-16 HH CAP SCREW (BOLT) S.S. 316 SERIES CW fy=65ksi fu=100ksi 4" Lg.		SCALE 3" = 1'-0"
F3810M - 550	3/8-16 HH CAP SCREW (BOLT) S.S. 316 SERIES CW fy=65ksi fu=100ksi 5-1/2" Lg.		SCALE 3" = 1'-0"
F6372M - 225	5/8-11 HH CAP SCREW W/ NYLON PATCH S.S. A4-70 fy=65ksi fu=100ksi 2-1/4" Lg.		SCALE 6" = 1'-0"
F6372M - 250	5/8-11 HH CAP SCREW W/ NYLON PATCH S.S. A4-70 fy=65ksi fu=100ksi 2-1/2" Lg.		SCALE 6" = 1'-0"
F7510S - 150	3/4-10 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 1-1/2" Lg.		SCALE 6" = 1'-0"
F7510C - 325	3/4-10 HH CAP SCREW (BOLT) SAE Gr5, Zinc fy=92ksi fu=120ksi 3-1/4" Lg.		SCALE 6" = 1'-0"
F7572K - 350	3/4-10 HH CAP SCREW W/ NYLON PATCH S.S. 300 SERIES CW fy=65ksi fu=100ksi 3-1/2" Lg.		SCALE 6" = 1'-0"
F7510C - 375	3/4-10 HH CAP SCREW (BOLT) SAE Gr5, Zinc fy=92ksi fu=120ksi 3-3/4" Lg.		SCALE 6" = 1'-0"
F8810S - 275	7/8-9 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 2-3/4" Lg.		SCALE 3" = 1'-0"
F8810S - 300	7/8-9 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 3" Lg.		SCALE 3" = 1'-0"
F8872C - 350	7/8-9 HH CAP SCREW (BOLT) W/ NYLON PATCH SAE Gr5, Zinc fy=92ksi fu=120ksi 3-1/2" Lg.		SCALE 3" = 1'-0"
F8810S - X12	7/8-9 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 12" Lg.		SCALE 1 1/2" = 1'-0"
F10010S - 800	1-8 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 8" Lg.		SCALE 3" = 1'-0"
F11310S - 375	1 1/8-7 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 3-3/4" Lg.		SCALE 3" = 1'-0"
F12510S - 800	1 1/4-7 HH CAP SCREW (BOLT) STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 8" Lg.		SCALE 3" = 1'-0"
F3880M - 063	3/8-16 HSHF CAP SCREW W/ NYLON PATCH S.S. 316 SERIES CW fy=65ksi fu=100ksi 5/8" Lg.		
F1058M - 050	#10 P/FH MS TYPE B S.S. 316 SERIES CW fy=65ksi fu=100ksi 1/2" Lg.		
F3871M - 150	3/8-16 HH TAP-TITE 2000 BOLT S.S. 316 SERIES CW fy=65ksi fu=100ksi 1-1/2" Lg.		SCALE 6" = 1'-0"
F3871C - 300	3/8-16 HH TAP-TITE 2000 BOLT SAE Gr5, Zinc fy=92ksi fu=120ksi 3" Lg.		SCALE 6" = 1'-0"

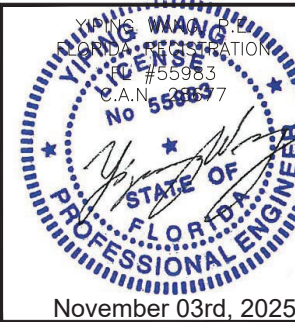
F5071C - 300	1/2-13 HH TAP-TITE 2000 BOLT SAE Gr5, Zinc fy=92ksi fu=120ksi 3" Lg.		SCALE 6" = 1'-0"
FKB7Z 05006	HILTI 387527 ANCHOR KWIK BOLT-TZ S.S. 304 1/2"x4-1/2" (9X000FAH-KB7Z05006)		SCALE 6" = 1'-0"
F2525M - 200	1/4-20 THREADED ROD S.S. 316 SERIES CW fy=65ksi fu=100ksi 2" Lg.		
F2525M - 250	1/4-20 THREADED ROD S.S. 316 SERIES CW fy=65ksi fu=100ksi 2-1/2" Lg.		
F6325L - 900	5/8-11 THREADED ROD GRADE 36 ASTM F1554, Zinc fy=36ksi, fu=58ksi 9" Lg.		SCALE 3" = 1'-0"
F8825S - X14	7/8-9 THREADED ROD STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 14" Lg.		SCALE 3" = 1'-0"
F11325S - X14	1 1/8-7 THREADED ROD STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi 14" Lg.		SCALE 3" = 1'-0"

NUTS & WASHERS			
F2513K -	1/4-20 HEX NUT S.S. 300 SERIES CW fy=65ksi fu=100ksi		
F3813K -	3/8-16 HEX NUT S.S. 300 SERIES CW fy=65ksi fu=100ksi		
F5013C -	1/2-13 HEX NUT SAE Gr5, Zinc fy=92ksi fu=120ksi		SCALE 6" = 1'-0"
F6313M -	5/8-11 HEX NUT S.S. 316 SERIES CW fy=65ksi fu=100ksi		SCALE 6" = 1'-0"
F6313C -	5/8-11 HEX NUT SAE Gr5, Zinc fy=92ksi fu=120ksi		SCALE 6" = 1'-0"
F7513C -	3/4-10 HEX NUT SAE Gr5, Zinc fy=92ksi fu=120ksi		SCALE 6" = 1'-0"
F7513K -	3/4-10 HEX NUT S.S. 300 SERIES CW fy=65ksi fu=100ksi		SCALE 6" = 1'-0"
F81313S -	1 1/8-7 HEX NUT STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi		SCALE 3" = 1'-0"
F12513S -	1 1/4-7 HEX NUT STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi		SCALE 3" = 1'-0"
F2515L -	1/4Ø FLAT WASHER SMALL O.D. S.S. 300 SERIES CW fy=65ksi fu=100ksi		
F3815L -	3/8Ø FLAT WASHER SMALL O.D. S.S. 300 SERIES CW fy=65ksi fu=100ksi		
F5015L -	1/2Ø FLAT WASHER SMALL O.D. S.S. 300 SERIES CW fy=65ksi fu=100ksi		SCALE 6" = 1'-0"
F6315N -	5/8Ø FLAT WASHER SMALL O.D. S.S. 316 SERIES CW fy=65ksi fu=100ksi		SCALE 6" = 1'-0"
F6315N -	5/8Ø FLAT WASHER SMALL O.D. ASTM F436 Zinc-plated fy=105ksi fu=125ksi		SCALE 6" = 1'-0"
F7515F -	3/4Ø FLAT WASHER SMALL O.D. HARDENED STEEL ASTM F436, Zinc fy=105ksi fu=125ksi		SCALE 6" = 1'-0"

F7515L -	3/4Ø FLAT WASHER SMALL O.D. S.S. 300 SERIES CW fy=65ksi fu=100ksi		SCALE 6" = 1'-0"
F8855C -	7/8Ø FLAT WASHER SAE Gr5, Zinc fy=92ksi fu=120ksi		SCALE 3" = 1'-0"
F10015S -	1Ø FLAT WASHER SMALL O.D. STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi		SCALE 3" = 1'-0"
F11315S -	1-1/8Ø FLAT WASHER SMALL O.D. STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi		SCALE 3" = 1'-0"
F12515S -	1-1/4Ø FLAT WASHER SMALL O.D. STEEL A490, Zinc(ASTM F1136 Gr3) fy=120ksi, fu=150ksi		SCALE 3" = 1'-0"

MISCELLANEOUS			
MARK #	DESCRIPTION	PICTURE	DETAIL REF.
F0630J - 400	Ga.12 WELD PIN GALVANIZED STEEL 4" Lg.		SCALE 6" = 1'-0"
F0636J - 400	Ga.12 INSULATION PIN WITH 2x2 BASE GALVANIZED STEEL 4" Lg.		SCALE 3" = 1'-0"
F0673L - 250	Ga.12 PERFORATED INSULATION PIN S.S. 304 fy=65ksi fu=100ksi 2-1/2" Lg.		SCALE 6" = 1'-0"
F5023K - 100	1/2-13 HS SET SCREW CUP POINT S.S. 300 SERIES CW fy=65ksi fu=100ksi 1" Lg.		
F1329L 006	1/8 BLIND RIVET, DOME S.S. 300 SERIES CW fy=65ksi fu=100ksi .031"-.062" GRIP RANGE		
F1329L 019	1/8 BLIND RIVET, DOME S.S. 300 SERIES CW fy=65ksi fu=100ksi .126"-.187" GRIP RANGE		
F2509L 260	1/4"-20 RIVNUT S.S. 300 SERIES CW fy=65ksi fu=100ksi 165"-260" GRIP RANGE		
ACS4003 - 088	1 19/32Ø BUSHING 13/16" I.D., S.S. 304 7/8" Lg.		SCALE 6" = 1'-0"
F2576M - 150	1/4 DOWEL PIN S.S. 316 SERIES (DOUBLE SHEAR STRENGTH 7,200 Lbs.) 1-1/2" Lg.		
F2576M - 075	1/4 DOWEL PIN S.S. 316 SERIES (DOUBLE SHEAR STRENGTH 7,200 Lbs.) 3/4" Lg.		
F3156M - 200	5/16" ALIGNMENT PIN S.S. 316 SERIES CW fy=65ksi fu=100ksi 2" Lg.		
F2559H - 100	1/4-20 WELD STUD (NELSON CFL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 1" Lg.		
F3859H - 100	3/8-16 WELD STUD (NELSON CFL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 1" Lg.		
F3859H - 200	3/8-16 WELD STUD (NELSON CFL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 2" Lg.		
F5059H - 200	1/2-13 WELD STUD (NELSON CFL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 2" Lg.		
F5059H - 250	1/2-13 WELD STUD (NELSON CFL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 2-1/2" Lg.		
F7559H - 200	3/4-10 WELD STUD (NELSON CFL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 2" Lg.		SCALE 6" = 1'-0"
F5051H - 063	1/2Ø STUD TAPPED (NELSON TBL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 5/8" Lg.		
F7574H - 300	3/4Ø WELD STUD (NELSON HBL) LOW CARBON STEEL(ASTM A29/A108),Zinc fy=49ksi, fu=61ksi 3" Lg.		SCALE 6" = 1'-0"
F7577H - 519	3/4 HEADED ANCHOR STUD (NELSON S3L) LOW CARBON STEEL(ASTM A29/A108),Un-plated fy=60ksi fu=80ksi 5-3/16" Lg.		SCALE 6" = 1'-0"

FLORIDA APPROVAL:
FL47359.4



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