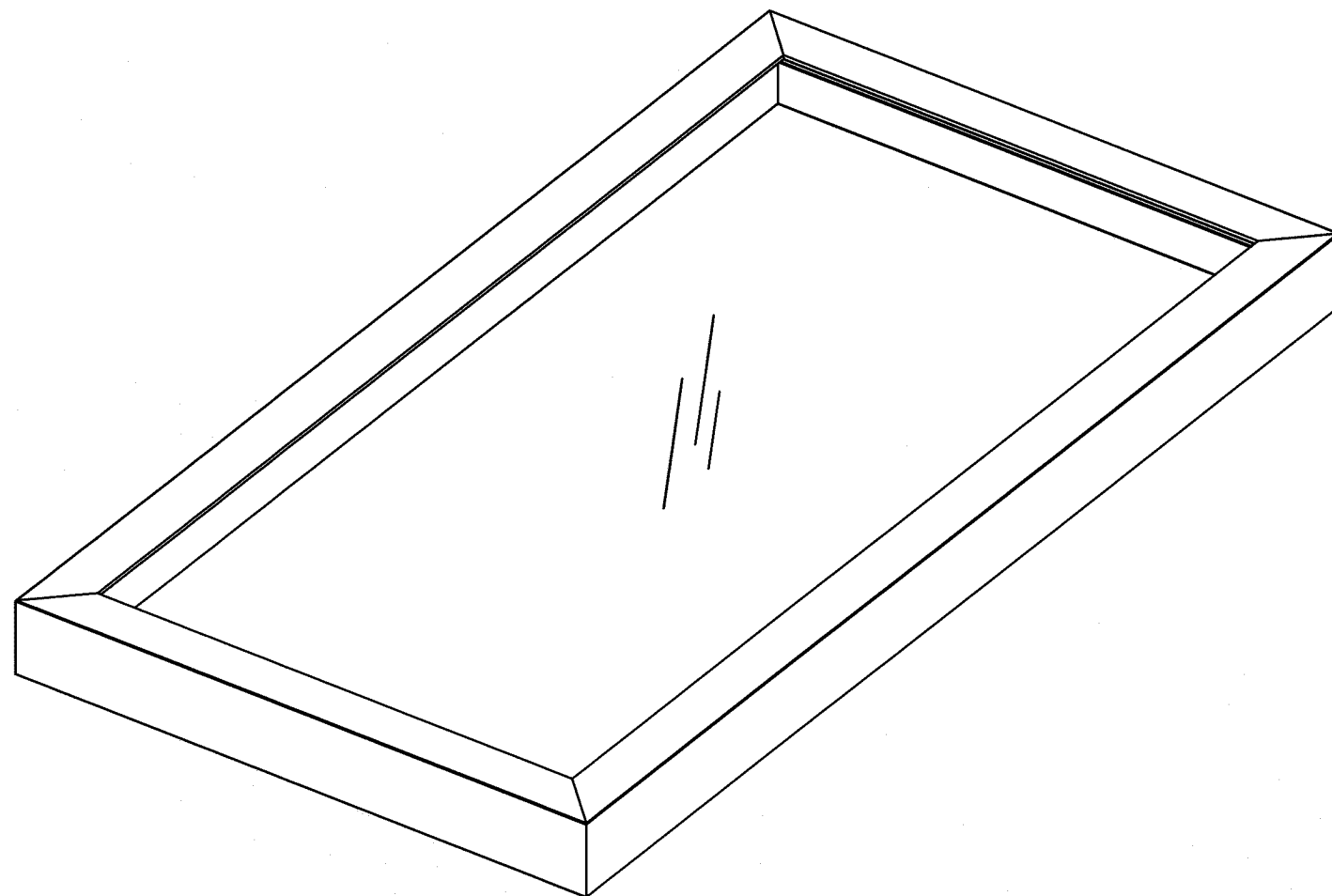


LARGE & SMALL MISSILE IMPACT RESISTANT (MISSILE LEVEL D)



1. THIS SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE
FLORIDA BUILDING CODE SIXTH EDITION (2017) PER
a. ASTM E330-14, E331-00, E283-04, E1886-13A, E1996-14
b. TAS 201 / 202 / 203
c. AAMA 101-97
d. AAMA 501
e. ANSI Z97.1

FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). AS QUALIFIED
IN TEST REPORT #17-7048 BY FENESTRATION TESTING LABORATORY, INC.

- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 2.0 SAFETY FACTOR.
- UNITS GLAZED WITH 1" LAMINATED GLASS (HEAT STRENGTHENED) ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- ALL CONCRETE ANCHORS SPECIFIED HEREIN REFER TO 1/2"Ø POWERS WEDGE BOLTS. FASTENED TO 8" MIN. THICK 3,000 PSI MIN. NON-CRACKED CONCRETE (BY OTHERS) INSTALL ALL CONCRETE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL FASTENERS INTO METAL SUBSTRATES TO BE 1/2"Ø F TYPE MACHINE BOLTS (GRADE 2 MIN.) UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALL FASTENERS INTO WOOD SUBSTRATES TO BE 1/2"Ø LAG SCREWS. FASTENED TO NO. 2 SOUTHERN YELLOW PINE (S.G.= 0.55 MIN.) IN DRY CONDITIONS.
- ALL EXTRUSIONS SHALL BE STEEL A36 ALLOY AND TEMPER, OR 6061-T6 ALUMINUM.
- GLAZING ILLUSTRATED HEREIN UTILIZES SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC. (NOA# 14-0916.11)
- THE CONTRACTOR IS RESPONSIBLE TO ISOLATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
FENEX CORP M.D., INC.
601 SW. 66TH TERRACE
PEMBROKE PINES, FL 33023
TAS 201/202/203
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER

SHEET INDEX	
# SHEET	DESCRIPTION
1	COVER SHEET
2	ANCHOR SCHEDULE
3	SKYLIGHT CONFIGURATIONS
4-5	LOADING TABLES & GLASS TYPES
6-9	DETAILS
10-11	FRAME ASSEMBLY
12	PART LIST
12	TOTAL

FL#22981.1

FRANK L. BENNARDI, P.E.
PE# 0046549

08/25/2017

No PE 0046549

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FENEX CORP M.D., INC.

601 SW. 66TH TERRACE
PEMBROKE PINES, FL 33023

(954) 638-5608

OVERSIZED SKYLIGHT
FL#22981.1

REMARKS	DRWN	CHKD	DATE
IT ISSUE	JMP	AJP	08/18/17
DD ADDITIONAL DETAILS	JMP	AJP	08/25/17
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	-	-	-
	-	-	-

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OF
18

1



SKYLIGHT SECTION VIEWS



ANCHOR SCHEDULE					
HOST STRUCTURE		ANCHOR	MIN. EMBEDMENT	EDGE DISTANCE	ANCHOR SPACING
▼	3KSI MIN. CONCRETE	1/2" POWERS WEDGE BOLT	3"	3"	REFER TO ELEVATIONS
	1/8" MIN. A36 STEEL	1/2" F TYPE MACHINE BOLT (GRADE 2 MIN.)	5 PITCHES PASS THE THREAD PLANE	1 1/2"	
	1/8" MIN. 6063-T6 ALUM.	1/2" F TYPE MACHINE BOLT (GRADE 2 MIN.)	5 PITCHES PASS THE THREAD PLANE	1 1/2"	
▽	G=0.55 MIN. WOOD	1/2" LAG SCREW	2"	2"	

FRANK L. BENNARDO, P.E.
025# 00#6549

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08/25/2017
NO. 000046349
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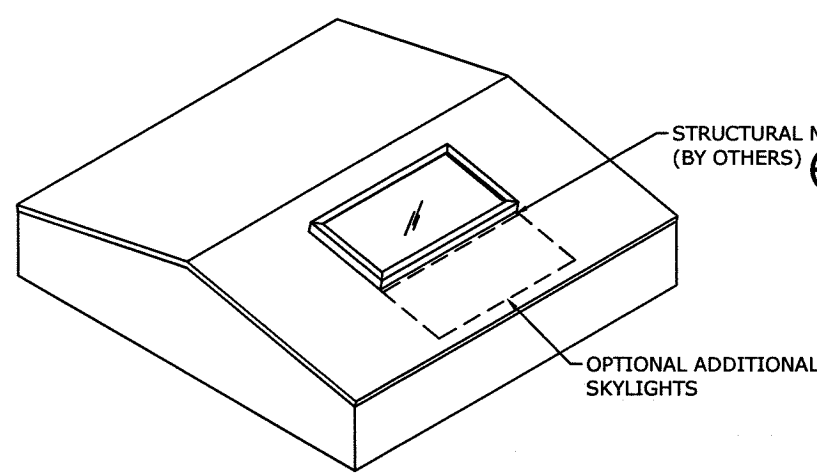
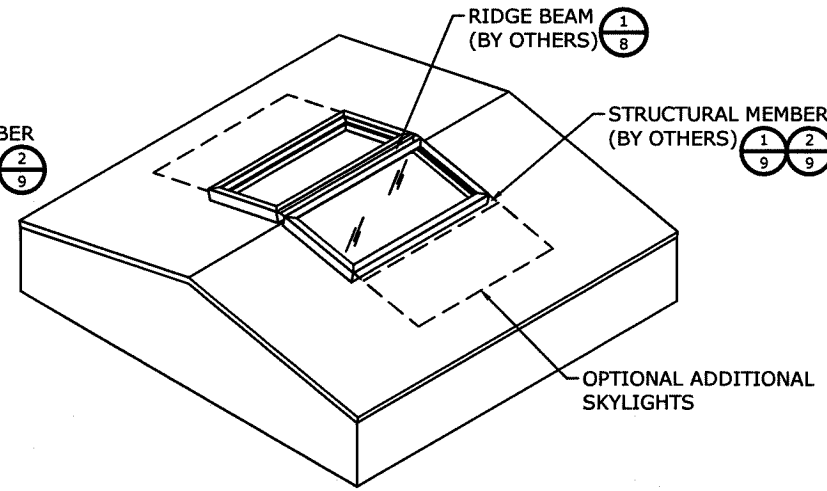
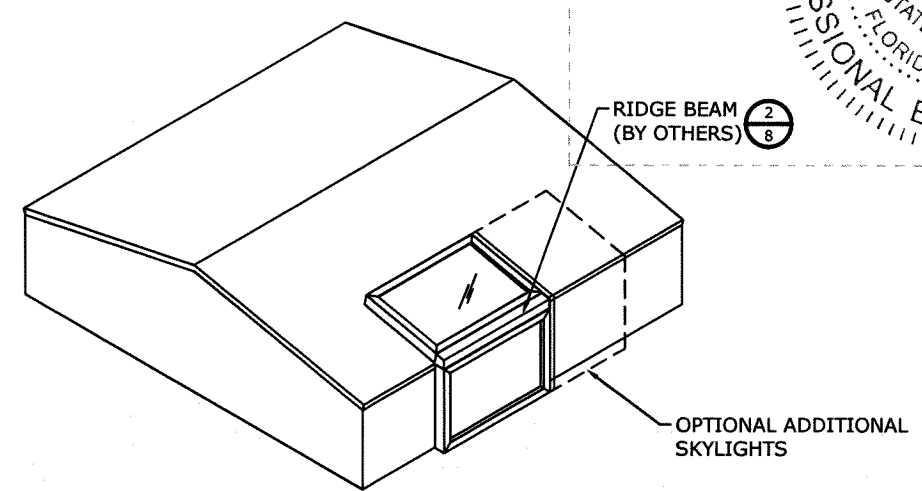
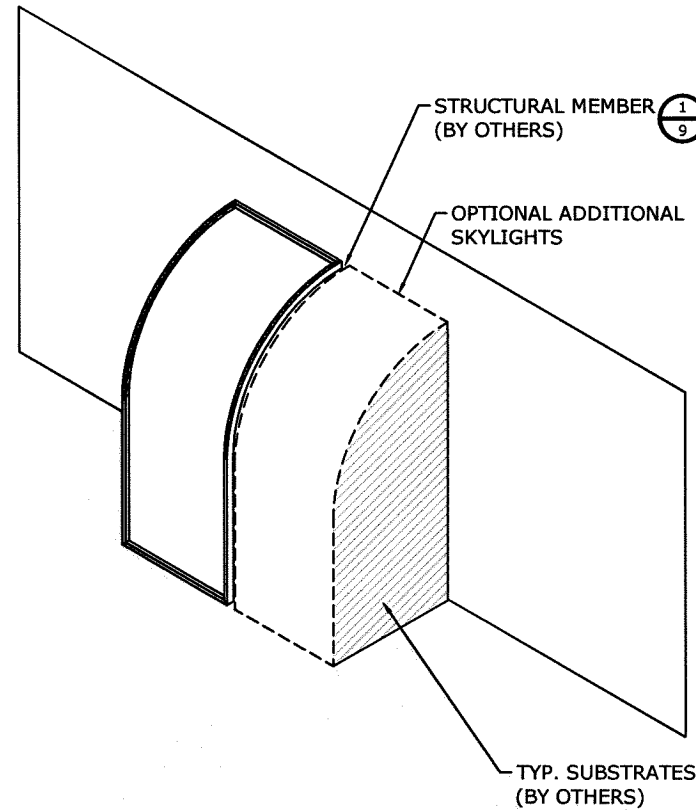
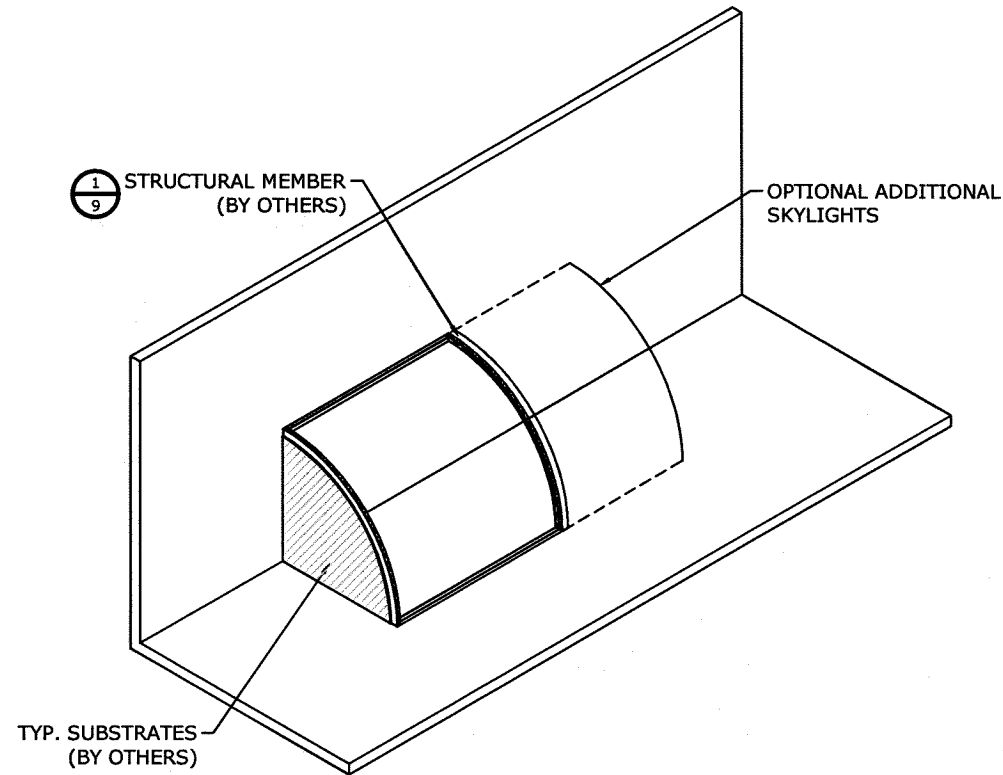
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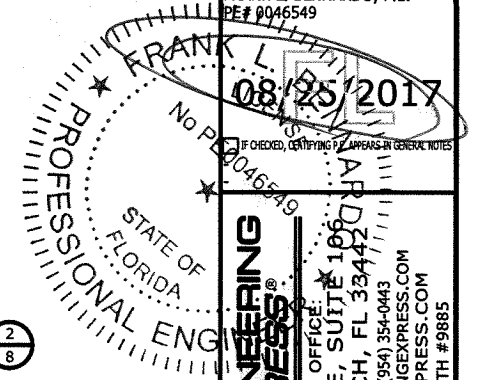
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08/25/2017 - 2:17pm jump V:\Projects\17-4952 Oversized Skylight - Florida Approval 2017\01\APPROVAL Drawings\17-4952d Approval.dwg

SKYLIGHT CONFIGURATIONS



NOTE:
SKYLIGHTS MAY BE INSTALLED TOGETHER AN INFINITE NUMBER OF BAYS PROVIDED EACH WINDOW SIZE DOES NOT EXCEED SIZES ON CHART AND A STRUCTURAL MEMBER (BY OTHERS) IS BETWEEN SKYLIGHTS.



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OVERSIZED SKYLIGHT
FL#22981.1

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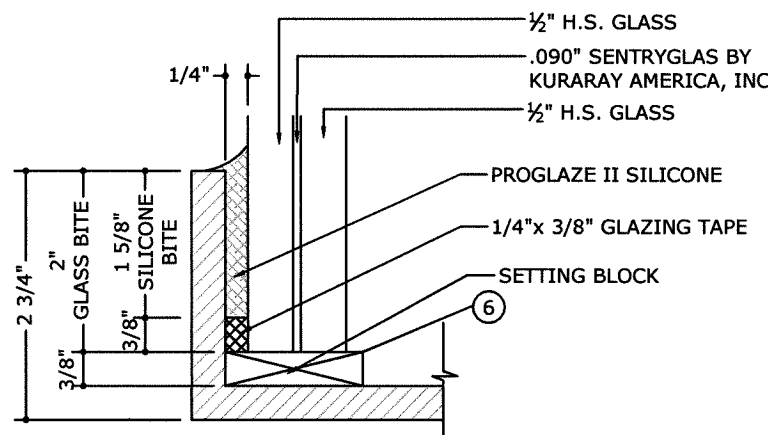
SCALE: NTS UNLESS NOTED

DIMENSIONS		PRESSURES	
WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F
48	72	120	120
54		120	120
60		120	120
66		109	109
72		100	100
78		100	100
84		100	100
90		100	100
96		100	100
102		100	100
108		100	100
114		100	100
120		100	100
126		100	100
132		100	100
138		100	100
144		100	100
150		100	100
156		100	100
162		100	100
168		100	100

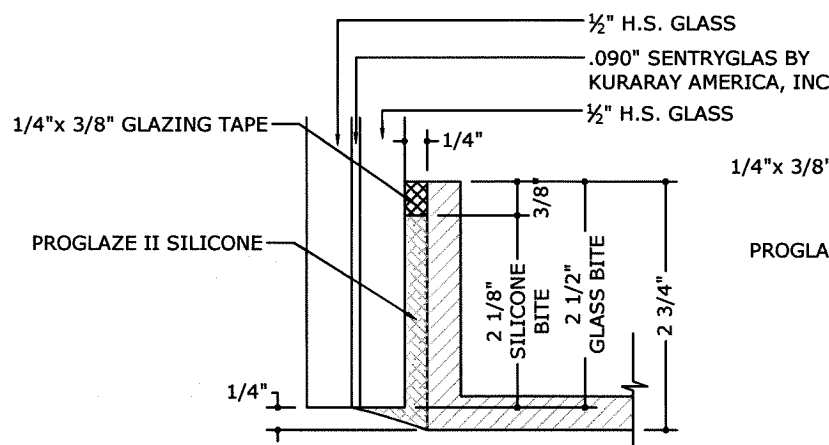
DIMENSIONS		PRESSURES	
WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F
48	84	120	120
54		120	120
60		120	120
66		109	109
72		100	100
78		92	92
84		85	85
90		85	85
96		85	85
102		85	85
108		85	85
114		85	85
120		85	85
126		85	85
132		85	85
138		85	85
144		85	85
150		85	85
156		85	85
162		85	85
168		85	85

DIMENSIONS		PRESSURES	
WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F
48	96	120	120
54		120	120
60		120	120
66		109	109
72		100	100
78		92	92
84		85	85
90		80	80
96		75	75
102		75	75
108		75	75
114		75	75
120		75	75
126		75	75
132		75	75
138		75	75
144		75	75
150		75	75
156		75	75
162		75	75
168		75	75
174		75	75
180		75	75
186		75	75
192		75	75
198		75	75

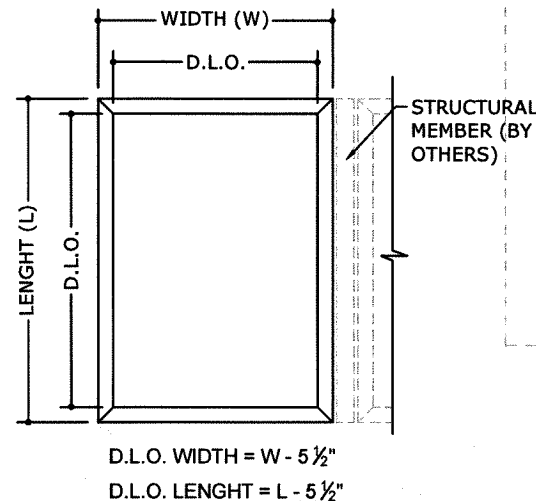
DIMENSIONS		PRESSURES	
WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F
48	108	120	120
54		120	120
60		120	120
66		109	109
72		100	100
78		92	92
84		85	85
90		80	80
96		75	75
102		70	70
108		66	66
114		66	66
120		66	66
126		66	66
132		66	66
138		66	66
144		66	66
150		66	66
156		66	66
162		66	66
168		66	66
174		66	66



G1 GLAZING DETAIL
6" = 1'-0"



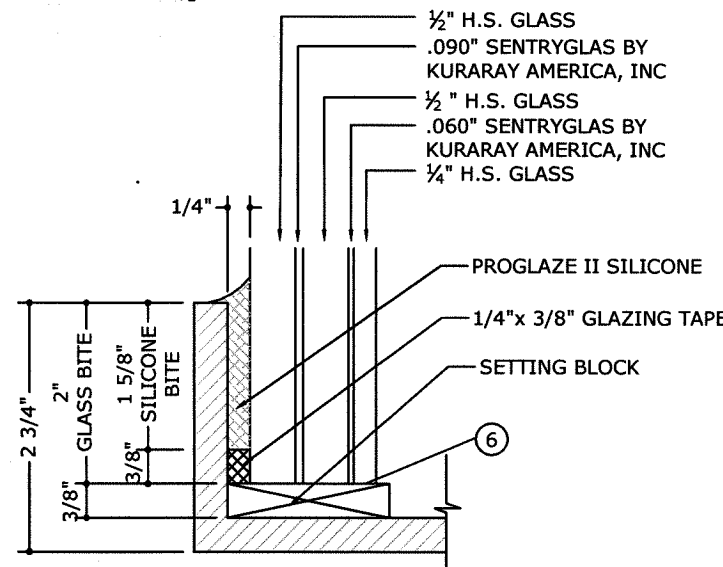
G2 GLAZING DETAIL
6" = 1'-0"



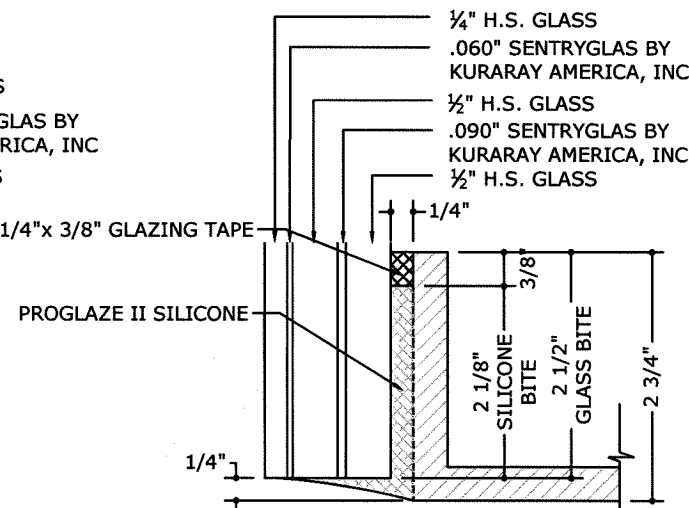
NOTE:
SYSTEM IS RATED TO 18 PSI WATER RESISTANCE.

NOTE:
SKYLIGHTS MAY BE INSTALLED TOGETHER AN INFINITE NUMBER OF BAYS PROVIDED EACH WINDOW SIZE DOES NOT EXCEED SIZES ON CHART AND A STRUCTURAL MEMBER (BY OTHERS) IS BETWEEN SKYLIGHTS.

NOTE:
GLASS COMPLIES WITH ASTM E1300



G3 GLAZING DETAIL
6" = 1'-0"



G4 GLAZING DETAIL
6" = 1'-0"

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OVERSIZED SKYLIGHT
FL#22981.1

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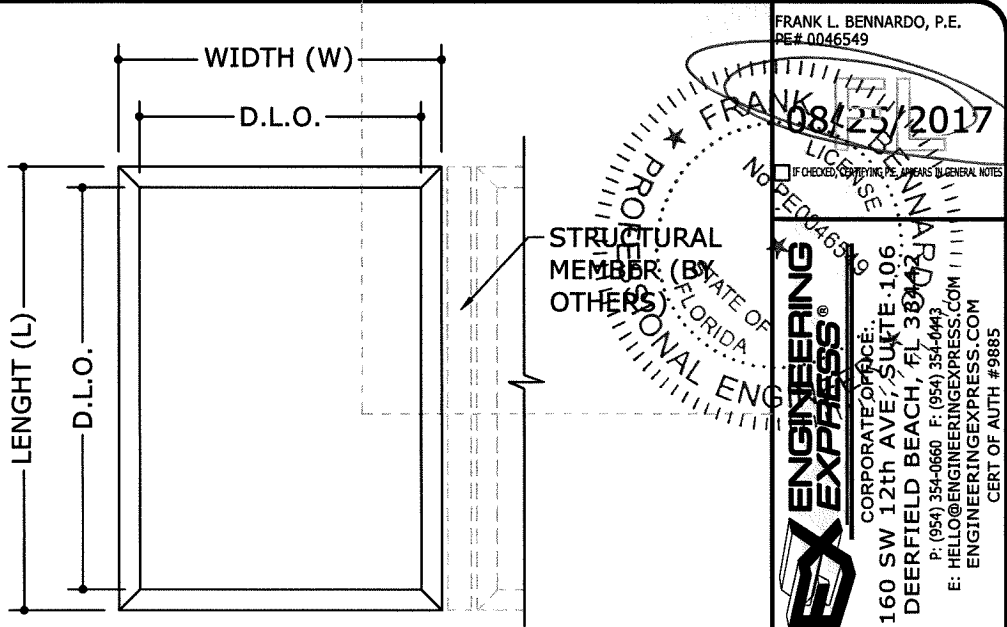
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12

DESIGN TABLE				DESIGN TABLE				DESIGN TABLE			
DIMENSIONS		PRESSURES		DIMENSIONS		PRESSURES		DIMENSIONS		PRESSURES	
WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F	WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F	WIDTH (In.)	LENGHT (In.)	(+) P.S.F	(-) P.S.F
48	120	120	120	48	156	120	120	48	216	118	118
54		120	120	54		120	120	54		105	105
60		120	120	60		120	120	60		95	95
66		109	109	66		109	109	66		87	87
72		100	100	72		100	100	72		80	80
78		92	92	78		92	92	78		74	74
84		85	85	84		85	85	84		69	69
90		80	80	90		80	80	48	228	105	105
96		75	75	96		75	75	54		94	94
102		70	70	102		70	70	60		85	85
108		66	66	108		66	66	66		78	78
114		63	63	114		63	63	72		71	71
120		60	60	120		60	60	78		66	66
126		60	60	48	168	120	120	48	240	95	95
132		60	60	54		120	120	54		85	85
138		60	60	60		120	120	60		76	76
144		60	60	66		109	109	66		70	70
150		60	60	72		100	100	72		64	64
156		60	60	78		92	92	78		60	60
48	132	120	120	84		85	85	48	252	86	86
54		120	120	90		80	80	54		77	77
60		120	120	96		75	75	60		69	69
66		109	109	102		70	70	66		63	63
72		100	100	108		66	66	72		58	58
78		92	92	48	180	120	120	48	264	78	78
84		85	85	54		120	120	54		70	70
90		80	80	60		120	120	60		63	63
96		75	75	66		109	109	66		57	57
102		70	70	72		100	100	72		53	53
108		66	66	78		92	92	48	276	71	71
114		63	63	84		85	85	54		64	64
120		60	60	90		80	80	60		57	57
126		57	57	96		75	75	66		52	52
132		54	54	102		70	70	48	288	65	65
138		54	54	48	192	120	120	54		58	58
144		54	54	54		120	120	60		53	53
48	144	120	120	60		120	120	66		48	48
54		120	120	66		109	109	48	300	60	60
60		120	120	72		100	100	54		54	54
66		109	109	78		92	92	60		48	48
72		100	100	84		85	85	48	312	56	56
78		92	92	90		80	80	54		49	49
84		85	85	96		75	75	60		45	45
90		80	80	48	204	120	120	48	324	52	52
96		75	75	54		118	118	54		46	46
102		70	70	60		107	107	48	336	48	48
108		66	66	66		98	98	54		43	43
114		63	63	72		90	90	48	348	45	45
120		60	60	78		84	84	54		40	40
126		57	57	84		78	78	48		42	42
132		54	54	90		74	74	48		39	39
								48	396	34	34



D.L.O. WIDTH = $W - 5\frac{1}{2}"$
D.L.O. LENGHT = $L - 5\frac{1}{2}"$

- NOTE:
SYSTEM IS RATED TO 18Psf. WATER RESISTENCE.
- NOTE:
SKYLIGHTS MAY BE INSTALLED TOGETHER AN INFINTE NUMBER OF BAYS PROVIDED EACH WINDOW SIZE DOES NOT EXCEED SIZES ON CHART AND A STRUCTURAL MEMBER (BY OTHERS) IS BETWEEN SKYLIGHTS.
- NOTE:
GLASS COMPLIES WITH ASTM E1300

FRANK L. BENNARDO, P.E.
PE # 0046549

08/25/2017

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NO. 0046549

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OVERSIZED SKYLIGHT
FL #22981.1

REMARKS	DATE
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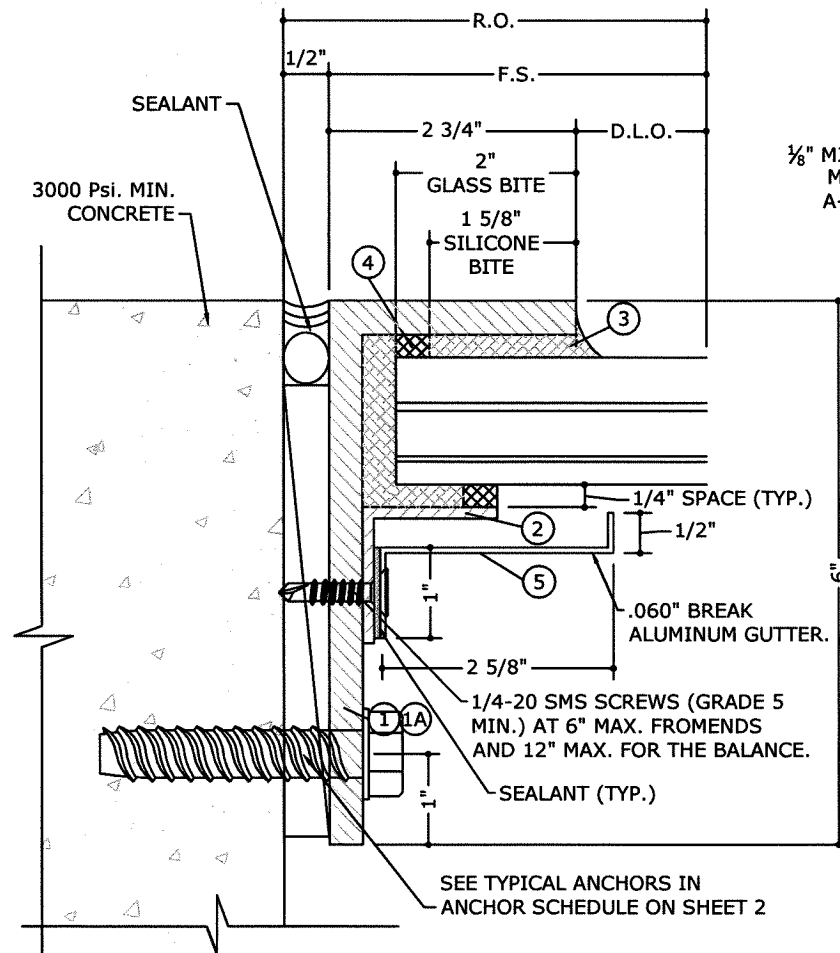
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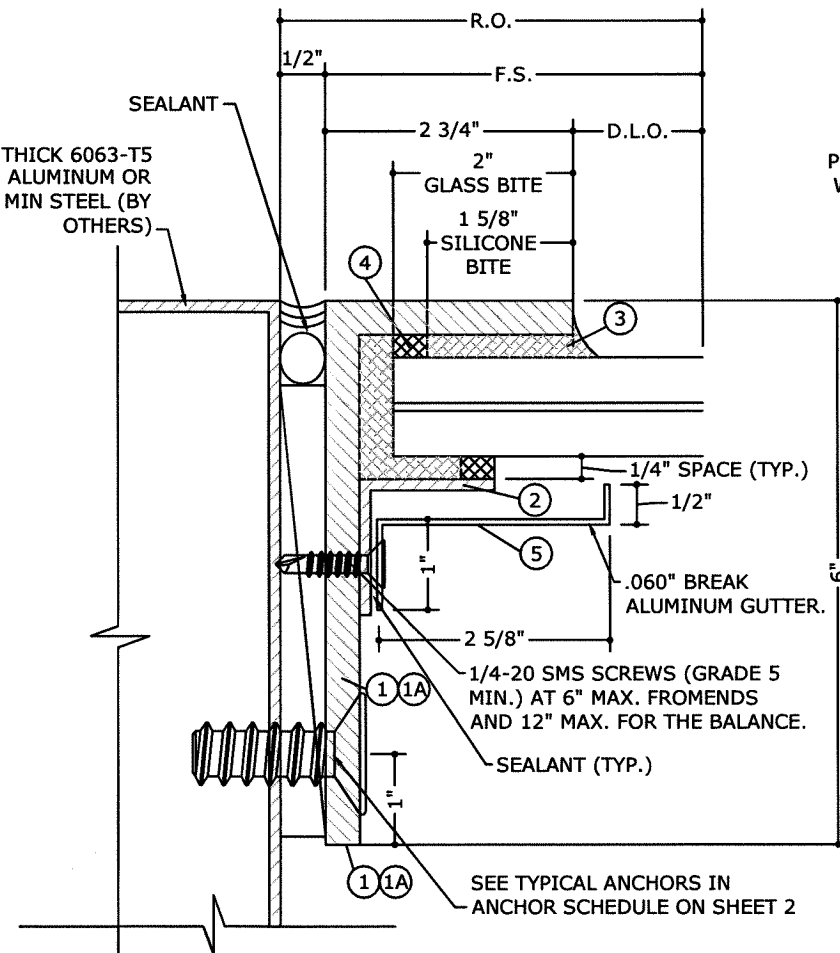
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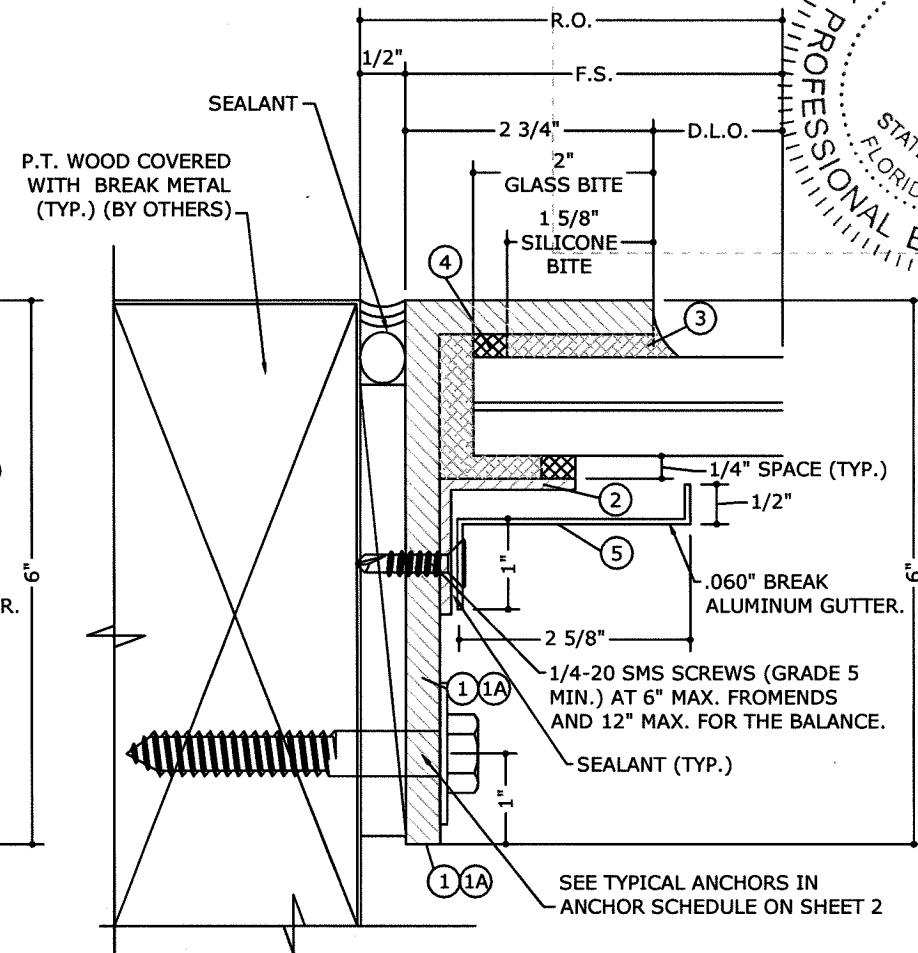
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1 PERIMETER DETAIL
6 6" = 1'-0"



2 PERIMETER DETAIL
6 6" = 1'-0"



3 PERIMETER DETAIL
6 6" = 1'-0"

NOTE: DISSIMILAR METALS MUST BE PROPERLY ISOLATED TO PREVENT ELECTROLYSIS.

NOTE: ALL WATERPROOFING REQUIREMENTS ARE NOT INCLUDED IN THIS CERTIFICATION

NOTE: ALL GLAZING DETAILS SHOWN ON (SHEET 4) CAN BE APPLIED TO ALL SKYLIGHT CONFIGURATIONS

FRANK L. BENNARDI, P.E.
PE# 0046549

08/25/2017

IF OVERSIZED SKYLIGHT IS USED IN GENERAL NOTES

NO REVISIONS

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STATE OF FLORIDA

PROFESSIONAL ENGINEER

FRANK L. BENNARDI, P.E.

08/25/2017

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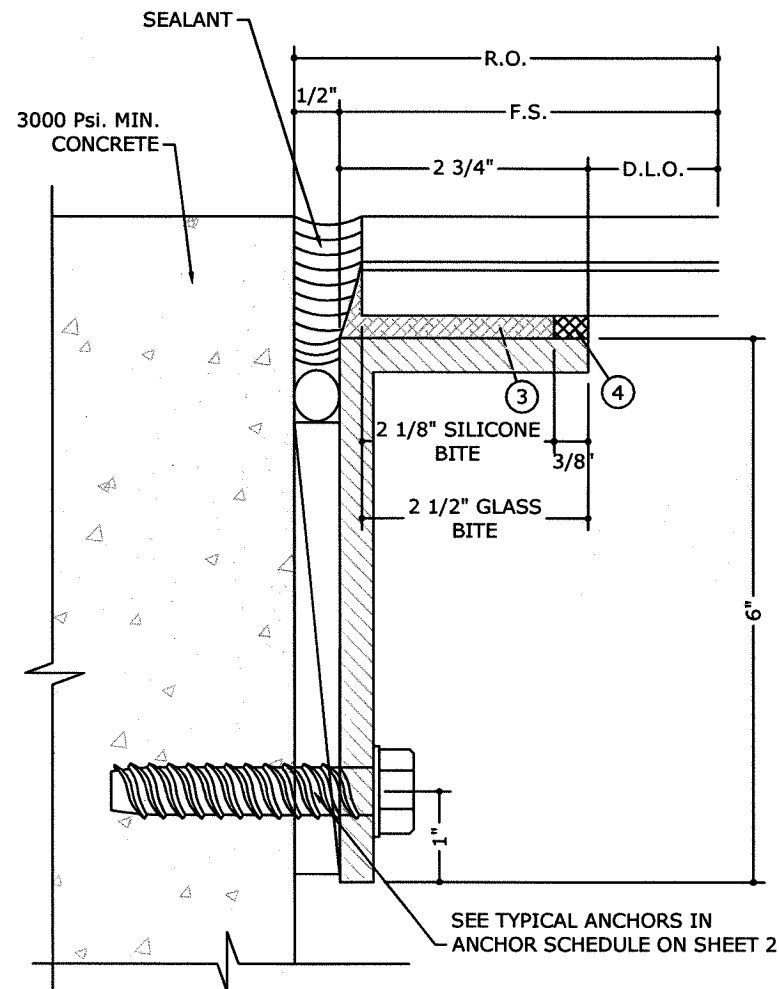
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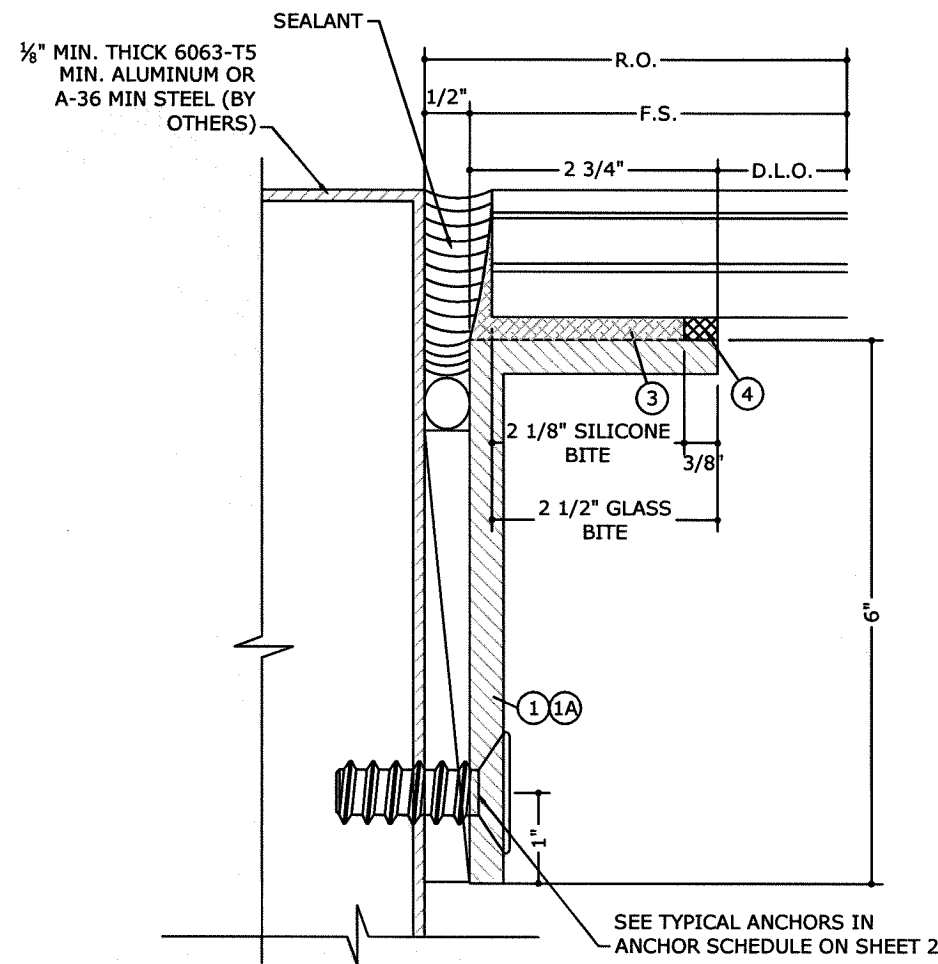
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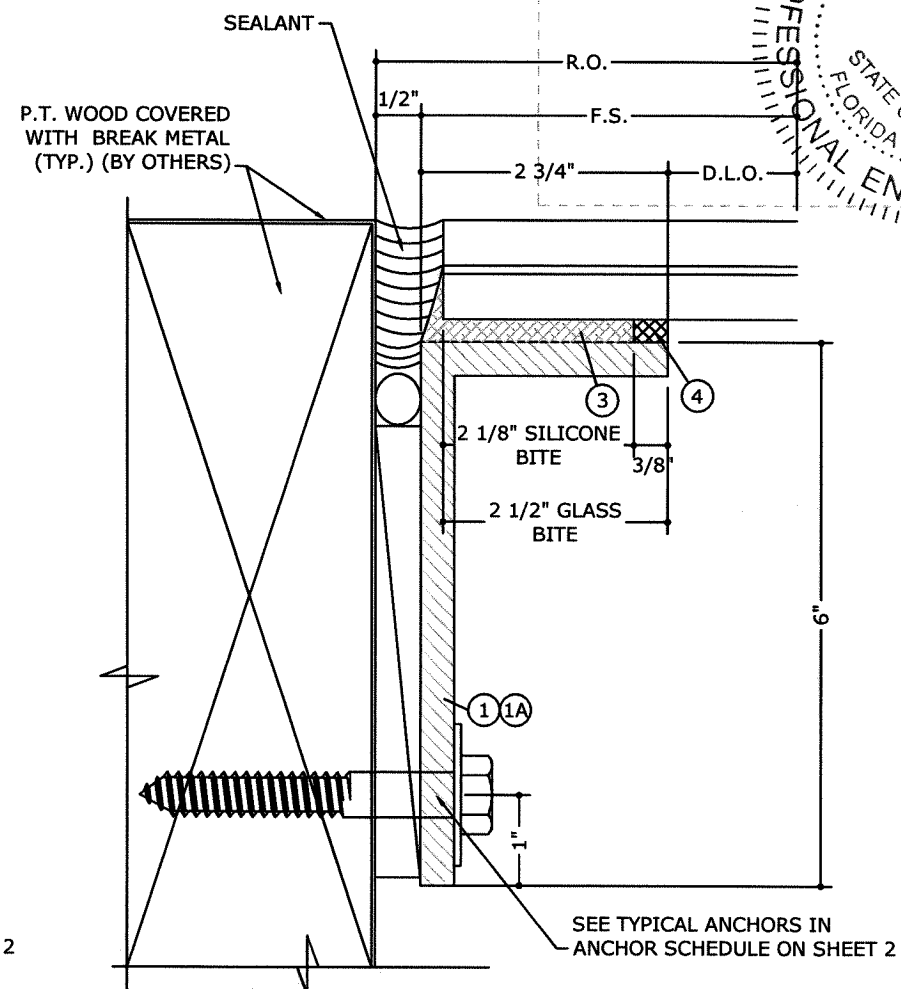
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1 PERIMETER DETAIL
6" = 1'-0"



2 PERIMETER DETAIL
6" = 1'-0"

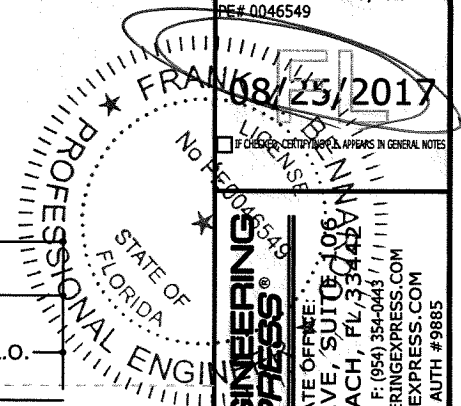


3 PERIMETER DETAIL
6" = 1'-0"

NOTE: DISSIMILAR METALS MUST BE PROPERLY ISOLATED TO PREVENT ELECTROLYSIS.

NOTE: ALL WATERPROOFING REQUIREMENTS ARE NOT INCLUDED IN THIS CERTIFICATION

NOTE: ALL GLAZING DETAILS SHOWN ON (SHEET 4) CAN BE APPLIED TO ALL SKYLIGHT CONFIGURATIONS



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PE# 0046549
08/25/2017
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(954) 638-5608
OVERSIZED SKYLIGHT
FL#22981.1

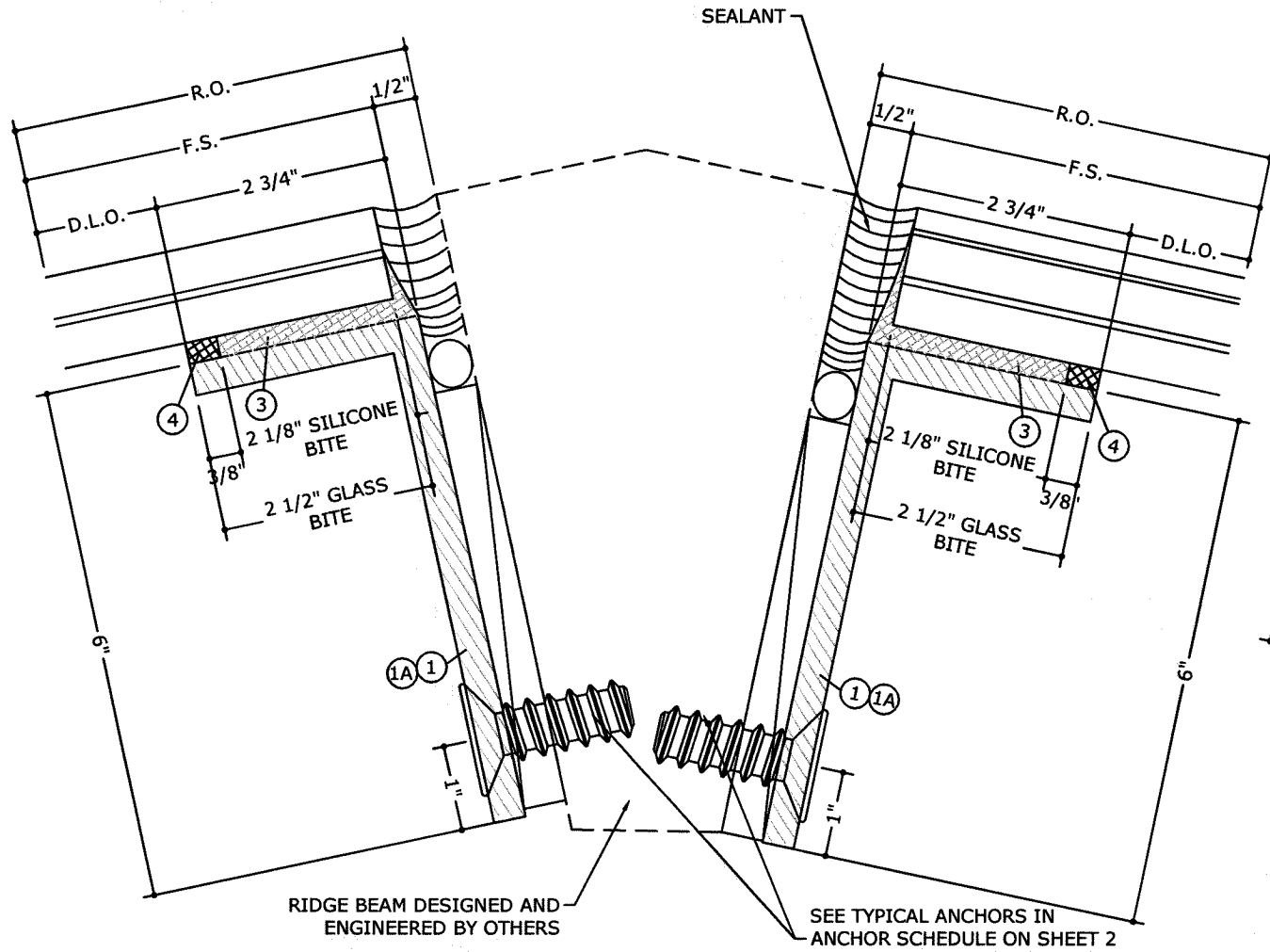
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17-4952

SCALE: NTS UNLESS NOTED

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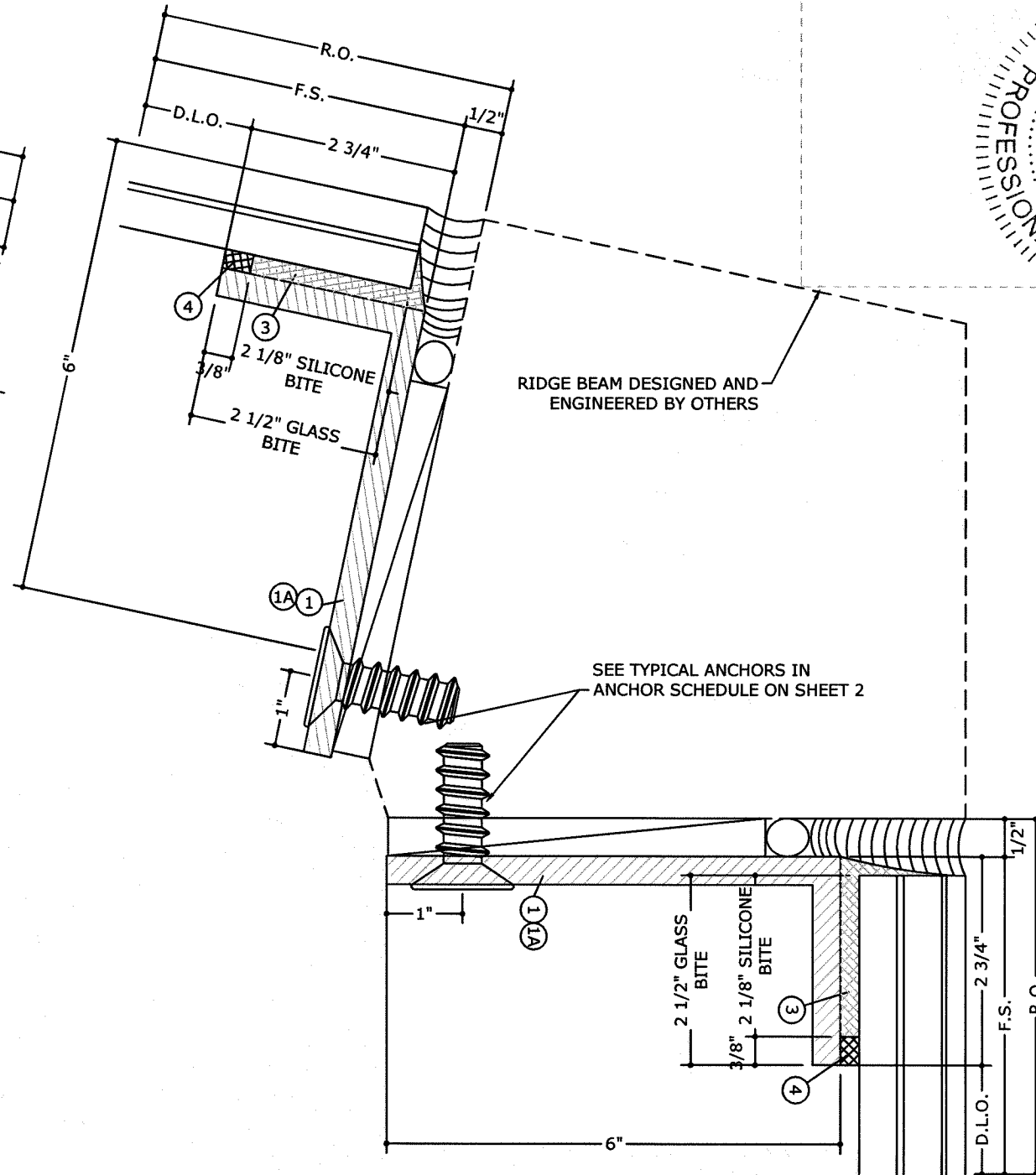


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8 RIDGE DETAIL
6" = 1'-0"

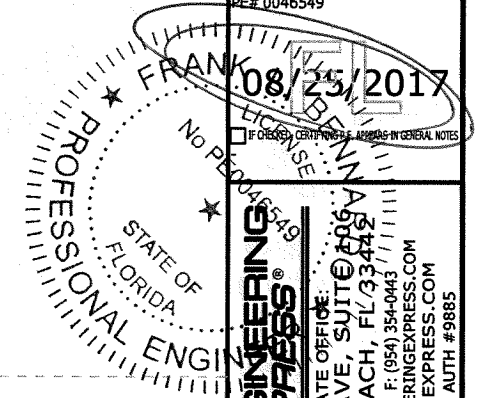
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2
8 RIDGE DETAIL
6" = 1'-0"



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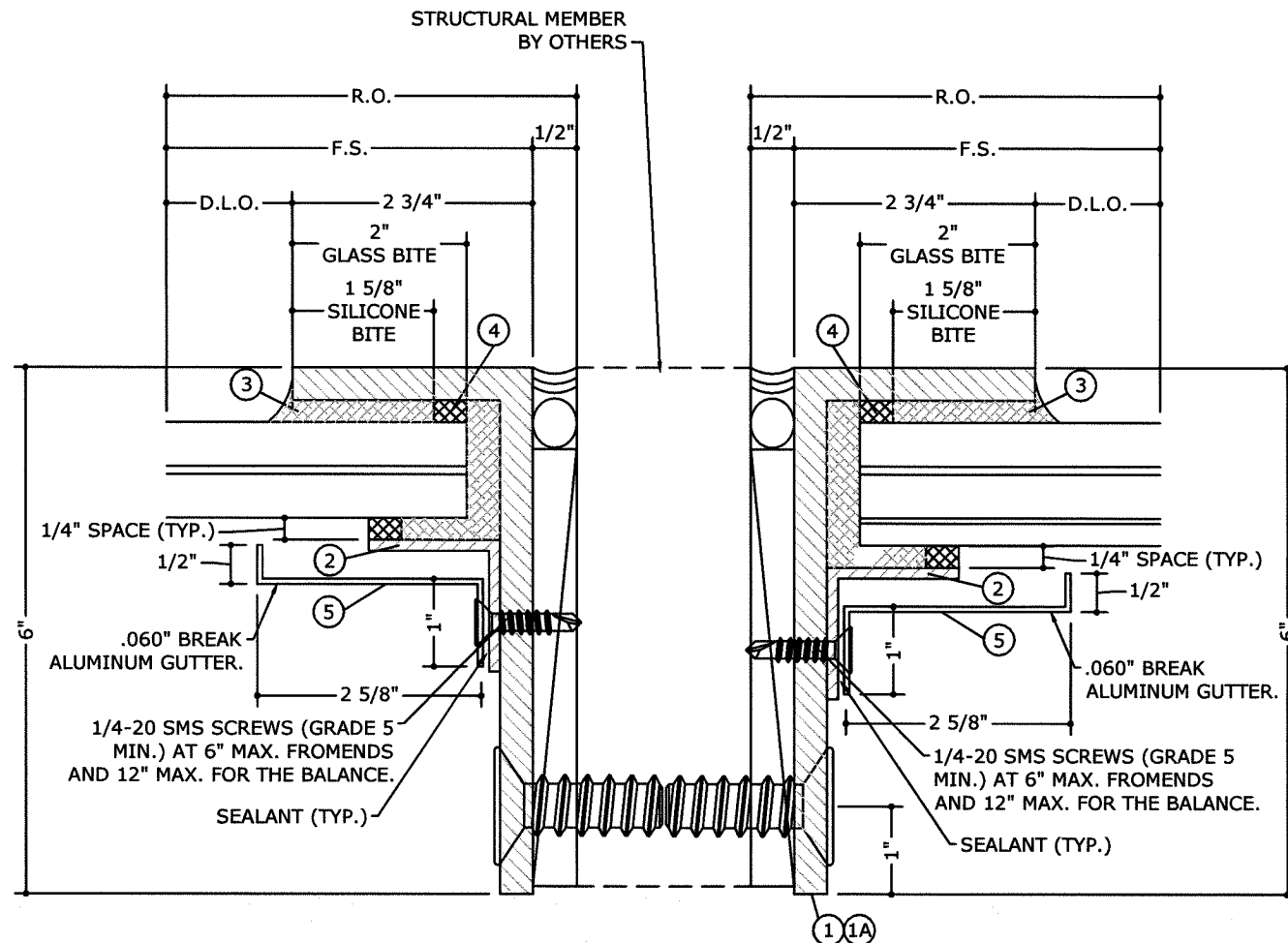
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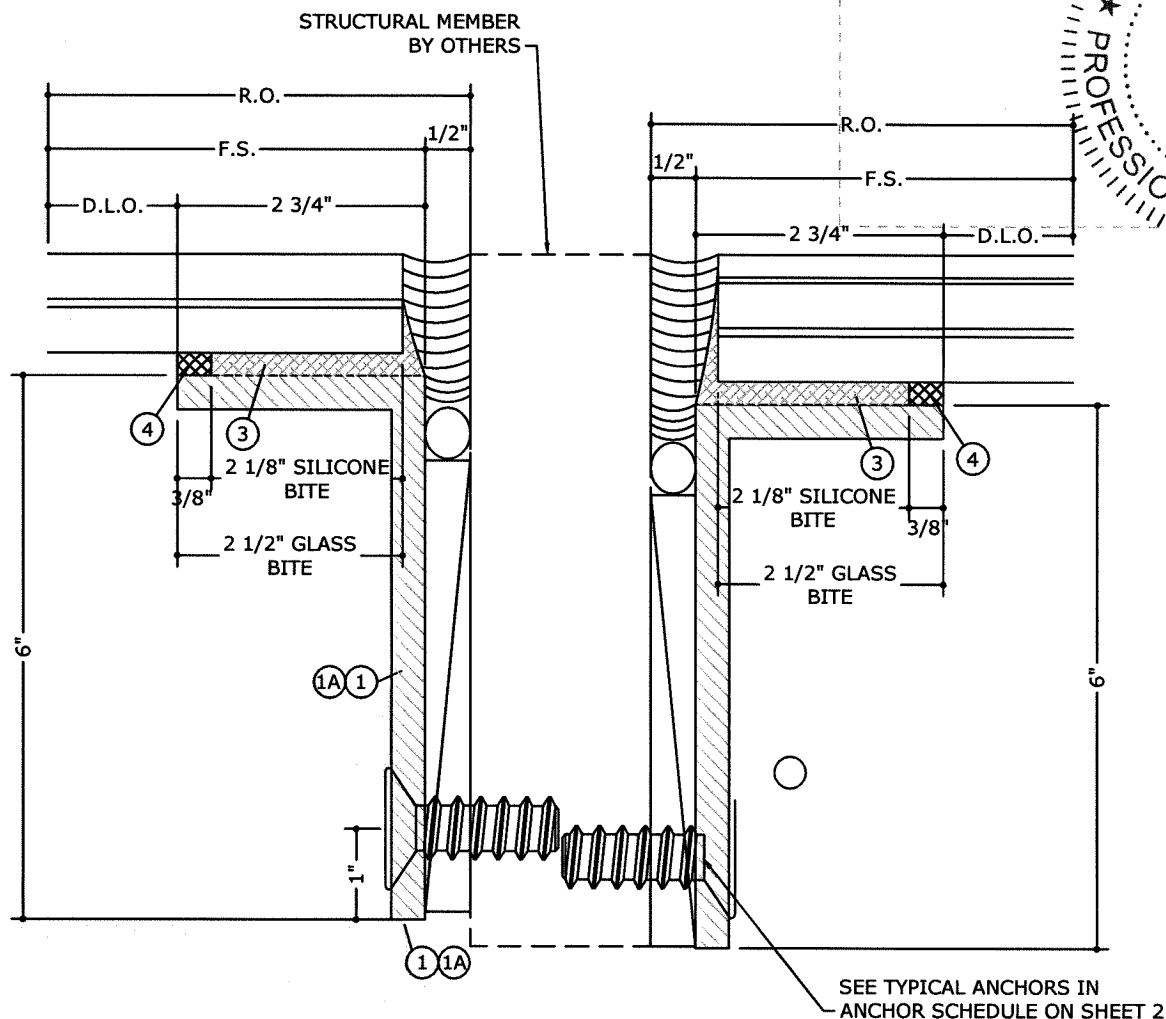
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1 JOINT FRAMES DETAIL
6" = 1'-0"

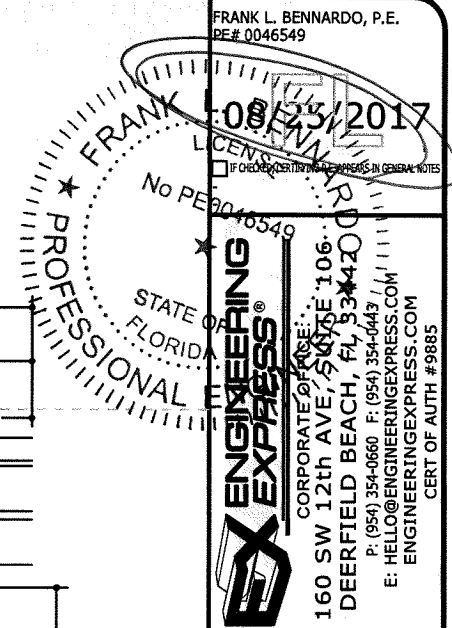


2 JOINT FRAMES DETAIL
6" = 1'-0"

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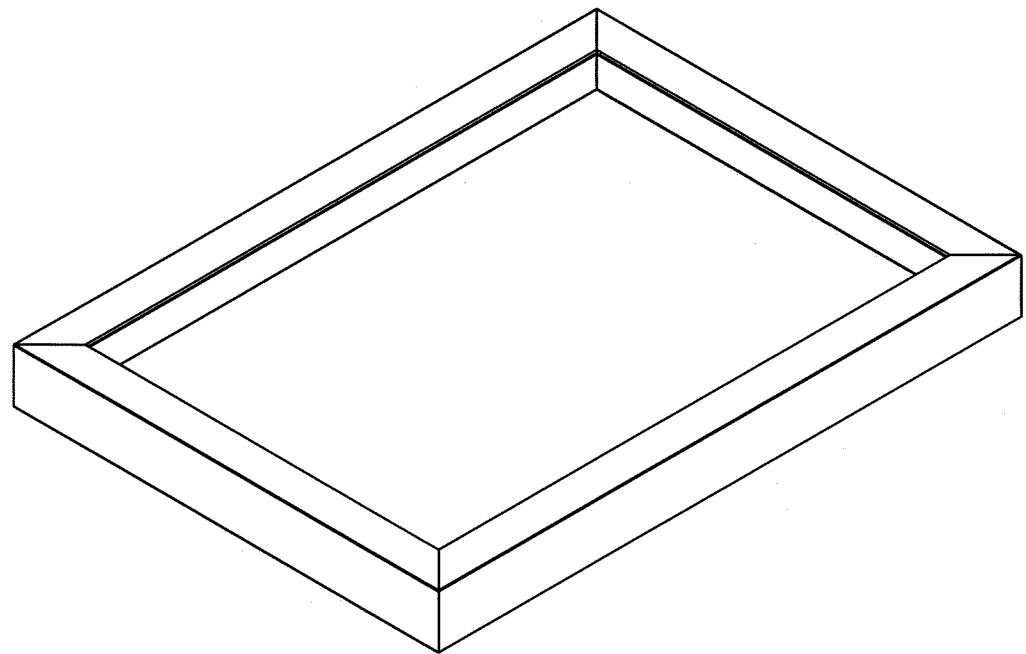


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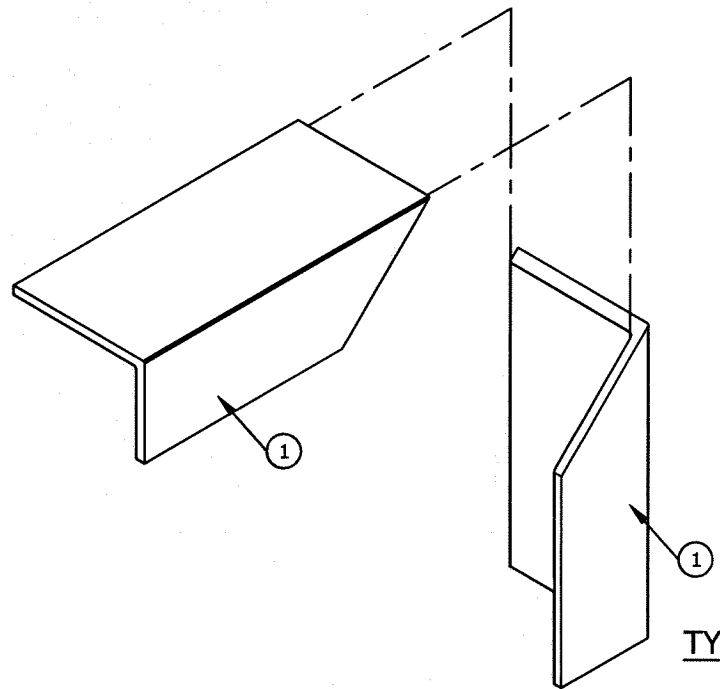
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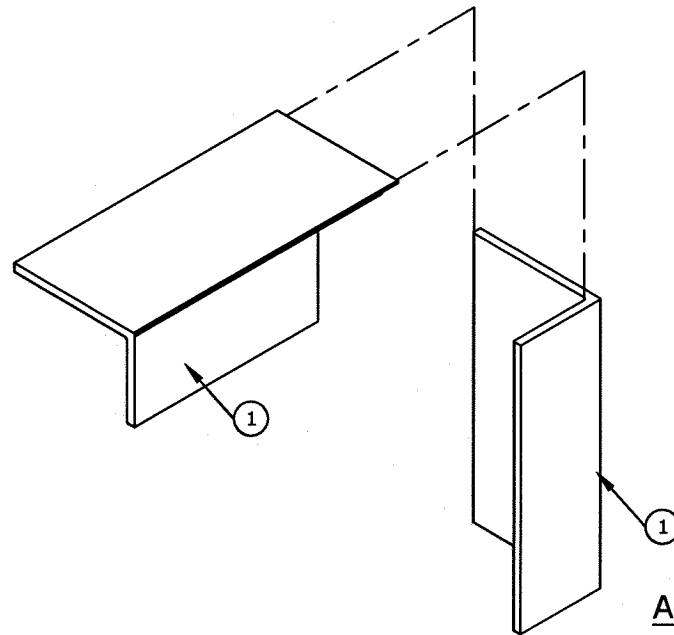
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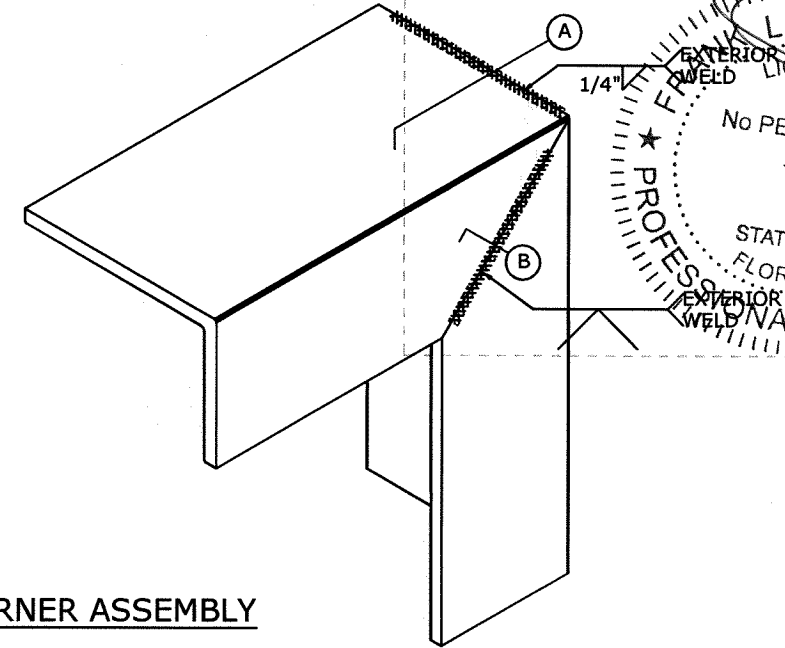
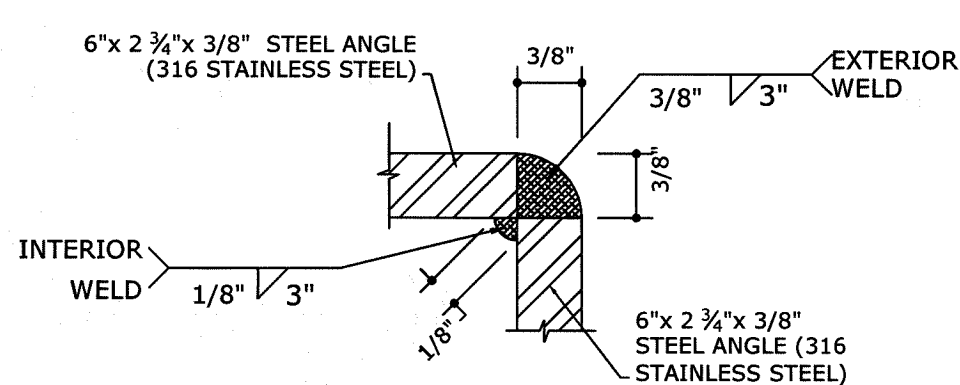
FIXED WINDOW ASSEMBLY (TYP.)



TYP. CORNER ASSEMBLY

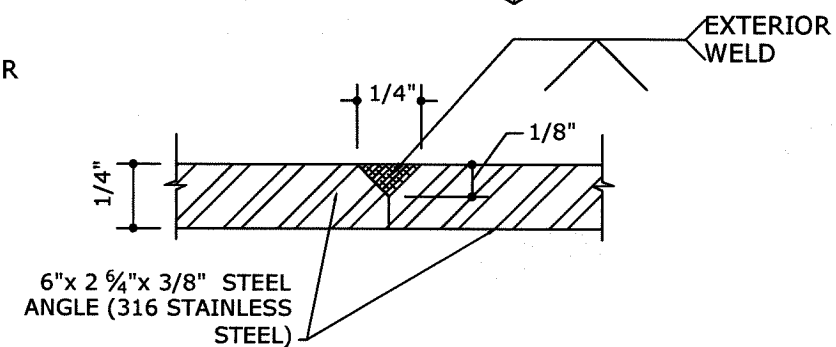


ALT. CORNER ASSEMBLY

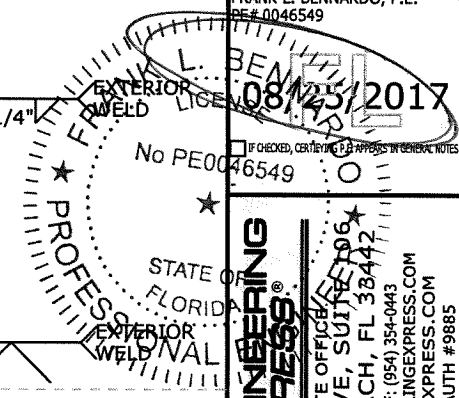


WELD SECTION "A"

TYP. CORNER WELDING DETAILS



WELD SECTION "B"



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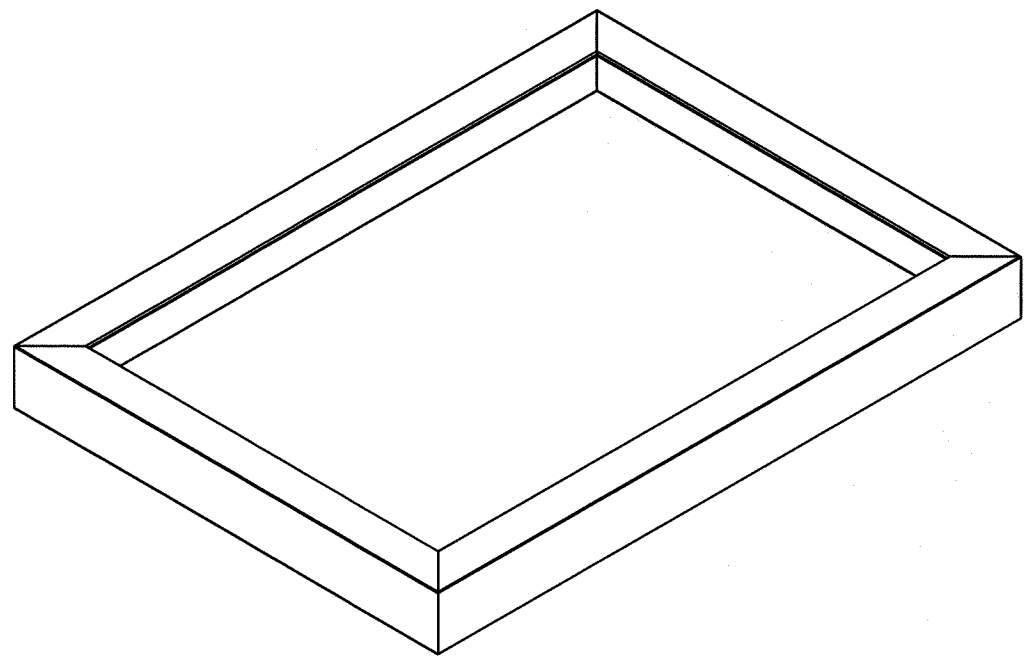
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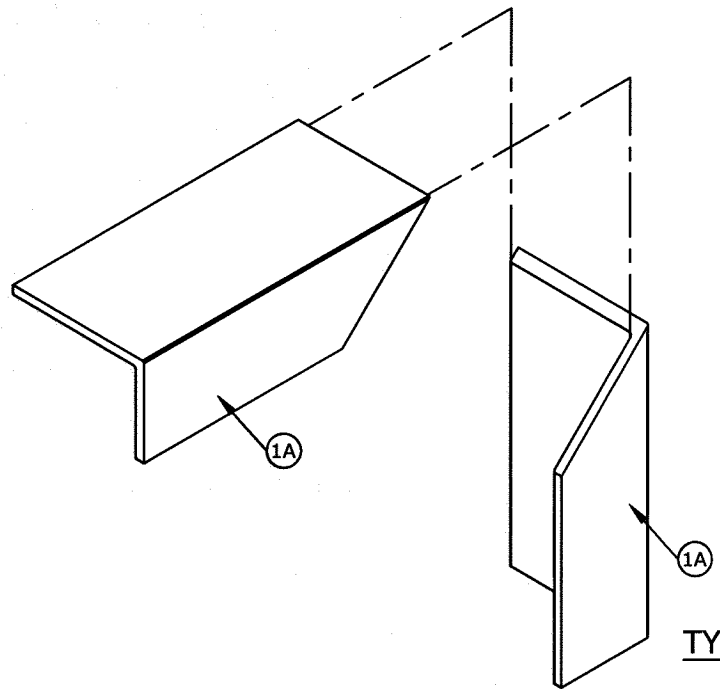
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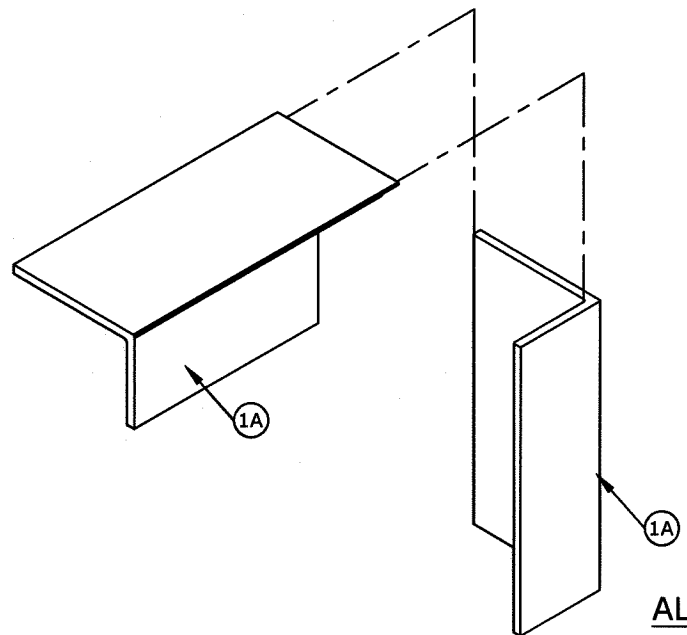
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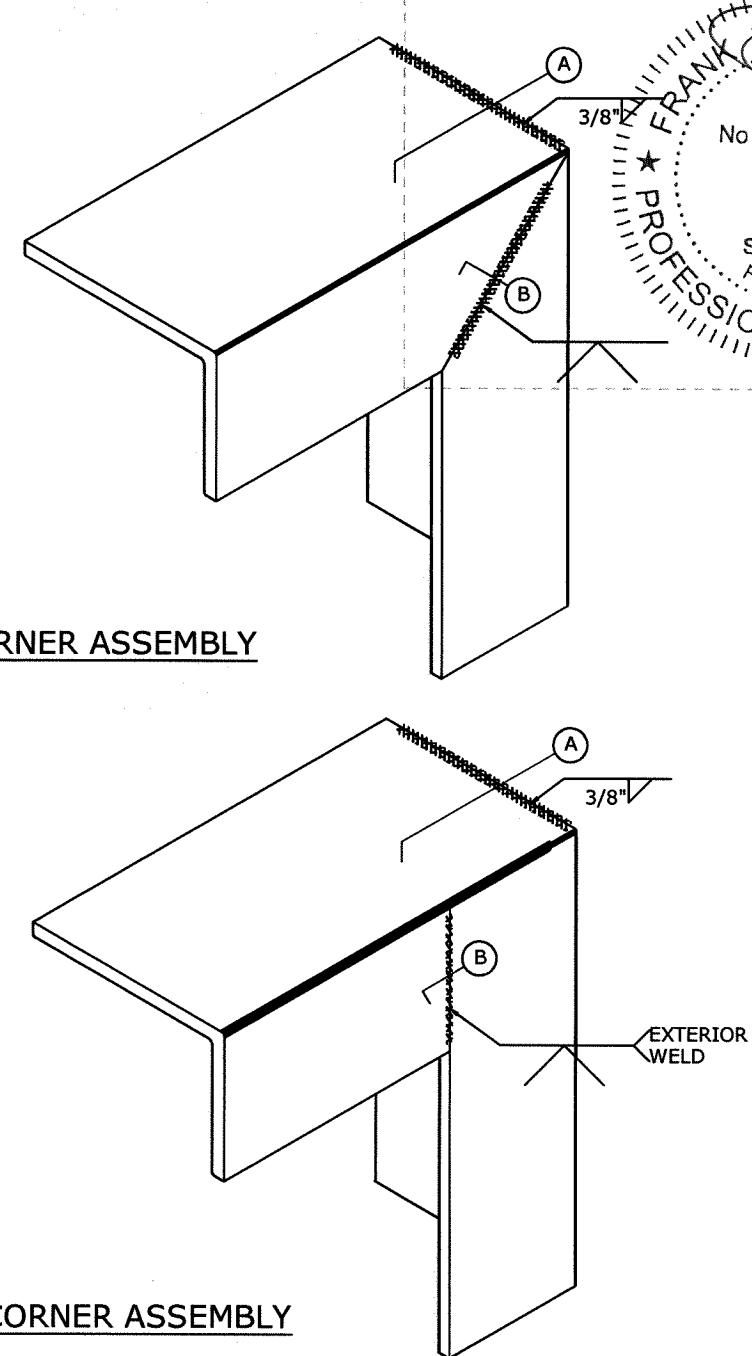
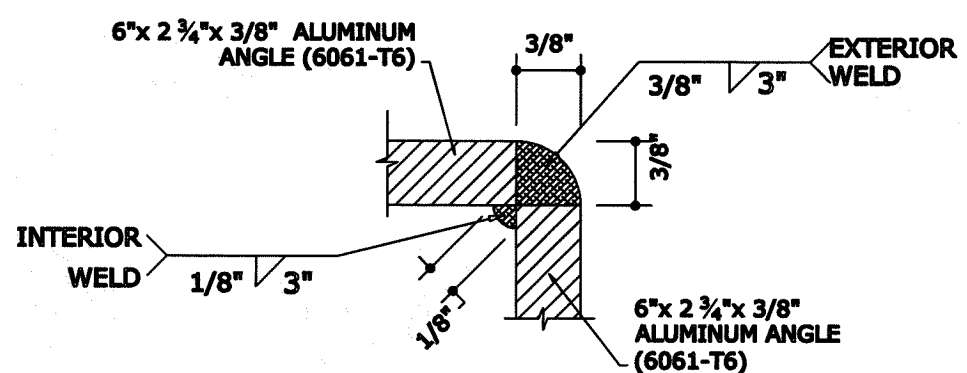
SKYLIGHT ASSEMBLY (TYP.)



TYP. CORNER ASSEMBLY

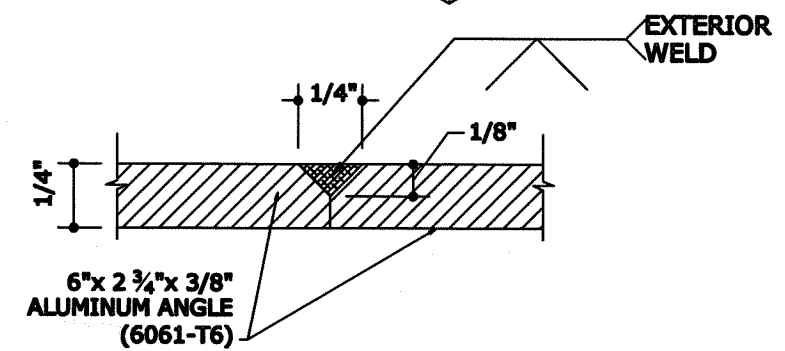


ALT. CORNER ASSEMBLY

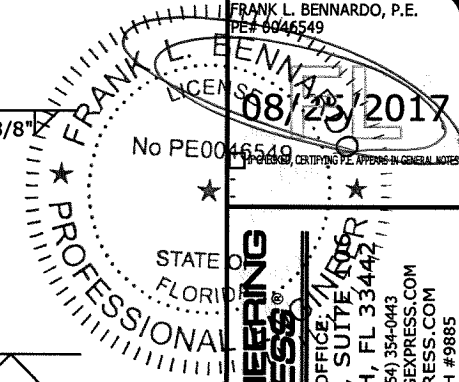


WELD SECTION "A"

TYP. CORNER WELDING DETAILS



WELD SECTION "B"



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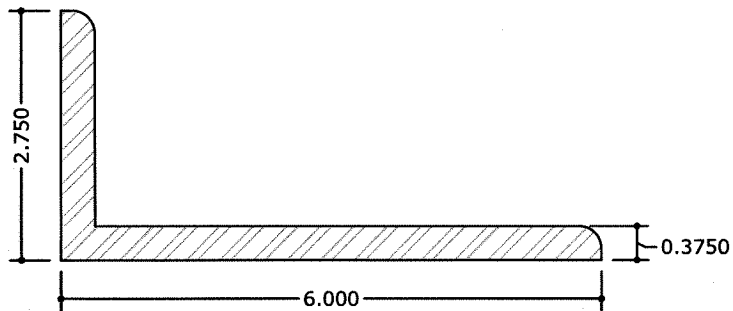
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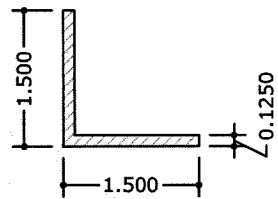
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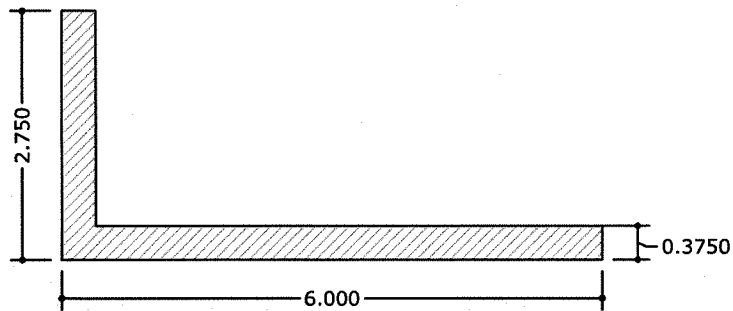
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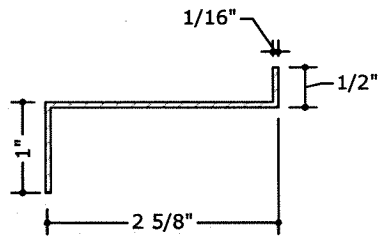
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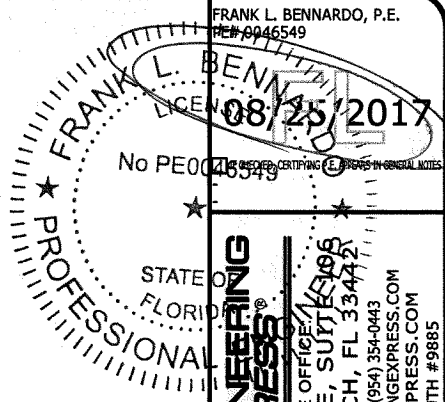


1A



5

MATERIAL SCHEDULE				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	-	6"x 2 3/4"x 3/8" STEEL ANGLE	304 STAINLESS STEEL	WINDOW FRAME
1A	-	6"x 2 3/4"x 3/8" ALUMINUM ANGLE	6061-T6 ALUMINUM	WINDOW FRAME
2	-	1 1/2"x 1 1/2"x 1/8" ALUMINUM ANGLE	6063-T5 ALUMINUM	GLAZING STOP
3	-	PROGLAZE II	SILICONE	GLAZING SEALANT
4	GT-14	1/4"x 3/8" GLAZING TAPE	ANEMOSTAT GLAZING TAPE	SPACER
5	-	.060" THK. GUTTER	ALUMINUM	BREAK METAL
6	-	85± 5 SHORE A DUROMETER BLOCKS CENTERED AT 1/4 POINTS WITH LENGTH DEPENDENT ON GLASS AREA		GLAZING BLOCK



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