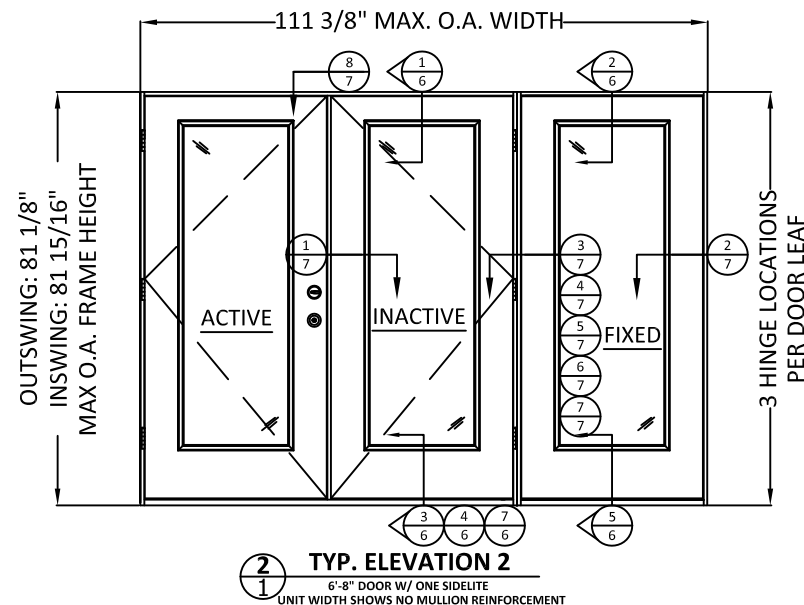
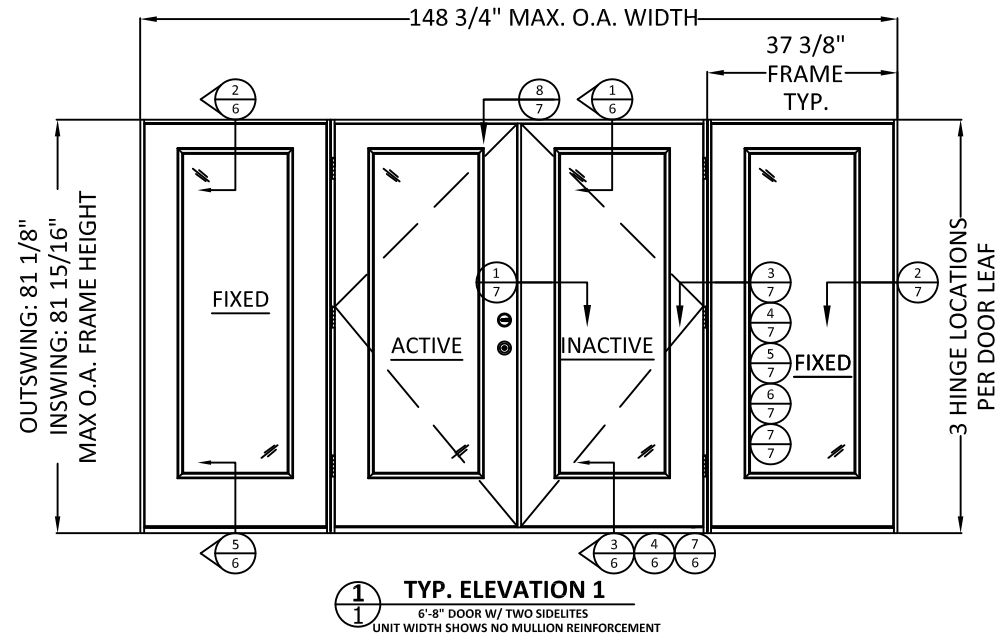


DESIGN PRO / SMOOTH PRO FULL LITE
IMPACT APPROVED

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC), 2018 INTERNATIONAL BUILDING CODE (IBC), AND TEXAS REVISIONS, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E283-04
 - ASTM E330-02
 - ASTM E1886-05
 - ASTM E1996-06
 - AAMA 1304-02
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY OR 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE FOR WIND ZONE 3 OR LESS.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAILS.
- FULL LITE APPROVAL COVERS USE OF FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECORATIVE AND EXTERNAL WROUGHT IRON. RADIUS (SHAPED) LITES ARE QUALIFIED FOR 6'-8" DOORS AT DP +/-50 PSF ONLY.
- NOTE: OPERATING AFCO H-497 SILL MEETS WATER INFILTRATION AT WATER TEST PRESSURE (WTP) OF 9.0 PSF. FIXED SIDELITE MEETS WATER INFILTRATION AT WTP OF 7.5 PSF. REMAINING SILLS NOT RATED FOR WATER INFILTRATION. IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS THIS REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥ 1.0

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	A	TYPICAL ELEVATIONS, DESIGN PRESSURES, AND GENERAL NOTES
2	A	ELEVATIONS
3	A	TYPICAL ANCHOR LAYOUTS AND NOTES
4	A	QUALIFIED CONFIGURATIONS & GLAZING DETAIL
5	-	OPTIONAL 2X BUCK ANCHORING DETAILS
6	-	VERTICAL ASSEMBLIES
7	-	HORIZONTAL ASSEMBLIES
8	-	WOOD SUBSTRATES
9	-	CONCRETE SUBSTRATES
10	A	COMPONENTS & BILL OF MATERIALS



- NOTES:
- INACTIVE AND ACTIVE DOOR PANEL ORIENTATION IS INTERCHANGEABLE.
 - SIDELITE MAY BE USED IN LIEU OF DOOR IN CONFIGURATIONS SHOWN ABOVE AS LONG AS O.A. DIMENSIONS ARE NOT SURPASSED.

CONFIGURATION	MAX. OVERALL NOMINAL SIZE		DESIGN PRESSURE (PSF)								MISSILE IMPACT RATING
			FINGER-JOINTED PINE				ALL OTHER MATERIALS				
	WIDTH	HEIGHT	INSWING		OUTSWING		INSWING		OUTSWING		
			POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	
O,XX,O	12'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	LMI & SMI
O,XX,O RADIUS	12'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	LMI & SMI
O,XX,O	12'-0"	8'-0"	45*	45	45*	45	45*	45	45*	45	LMI & SMI
XX,O	9'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	LMI & SMI
XX,O RADIUS	9'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	LMI & SMI
XX,O	9'-0"	8'-0"	45*	45	45*	45	45*	45	45*	45	LMI & SMI

*SEE GENERAL NOTE 7, SHEET 1, FOR WATER INFILTRATION APPROVED SILLS.

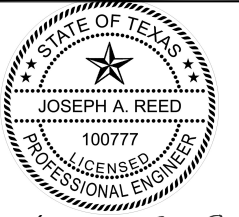
PREPARED BY:

TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED
TYPICAL ELEVATIONS, DESIGN
PRESSURES, AND GENERAL NOTES

3737 LAKEPORT BLVD.,
KLAMATH FALLS, OR 97601
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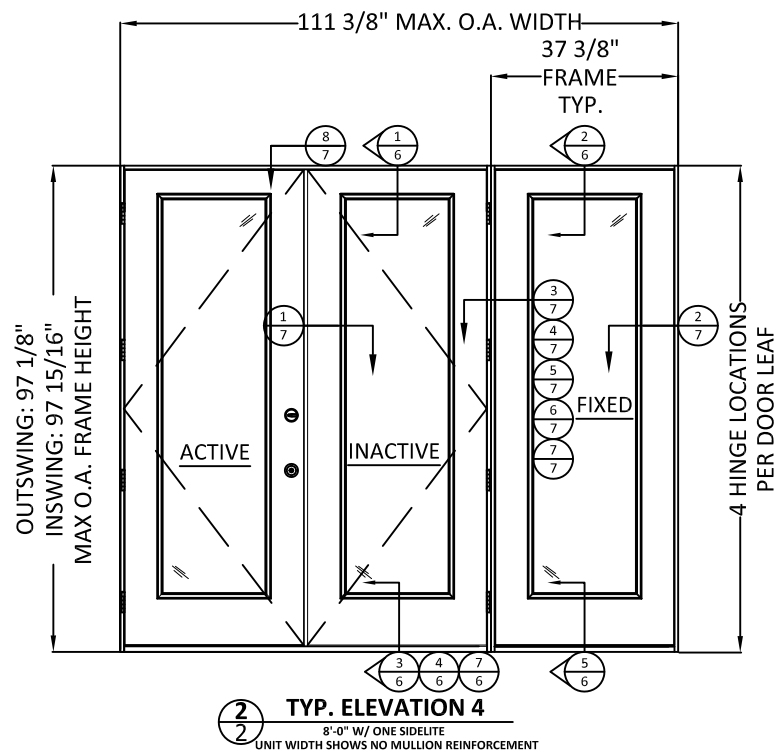
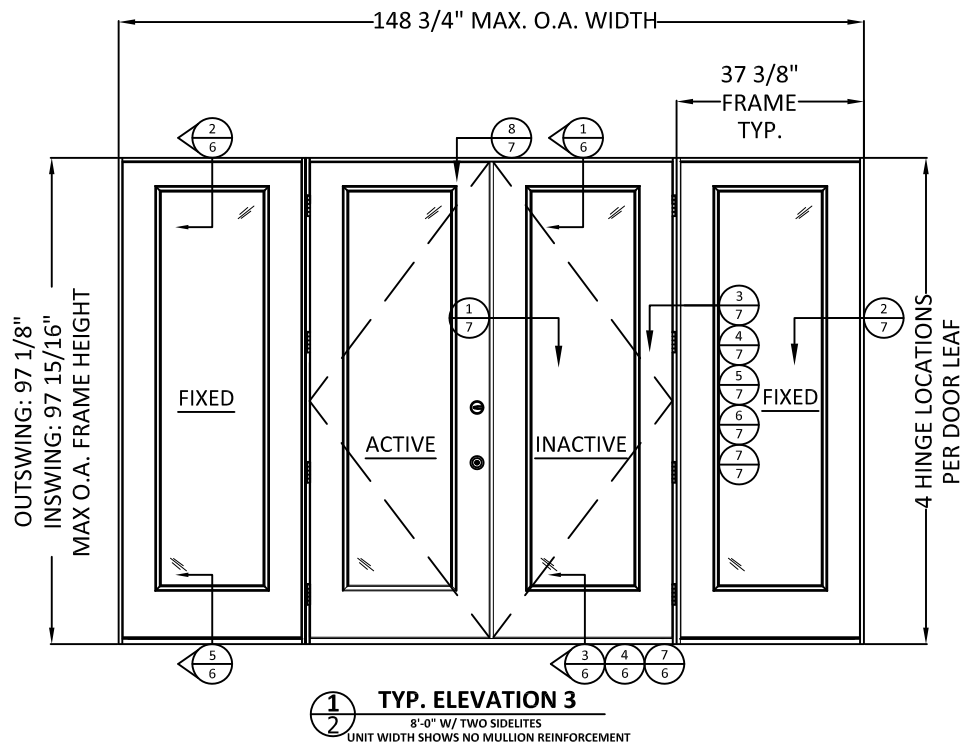
DATE: 10.06.2021

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CHK. BY: SS

SCALE: NTS

DWG. #: A010931

SHEET: OF 10



NOTES:

1. INACTIVE AND ACTIVE DOOR PANEL ORIENTATION IS INTERCHANGEABLE.
2. SIDELITE MAY BE USED IN LIEU OF DOOR IN CONFIGURATIONS SHOWN ABOVE AS LONG AS O.A. DIMENSIONS ARE NOT SURPASSED.

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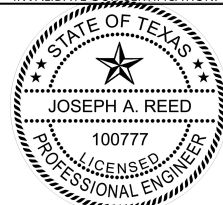
TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
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ELEVATIONS

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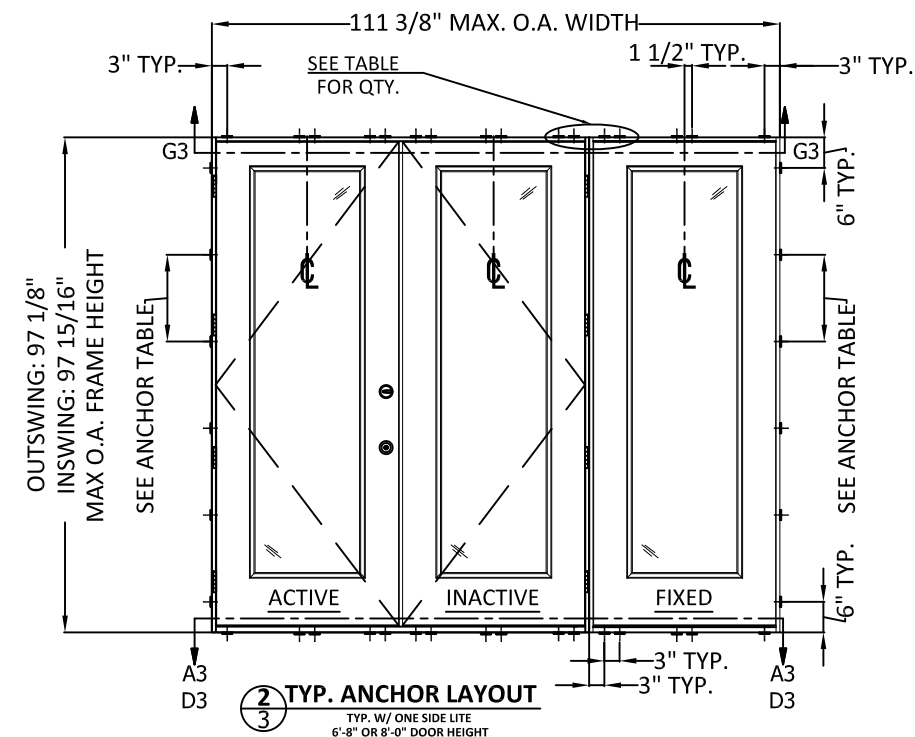
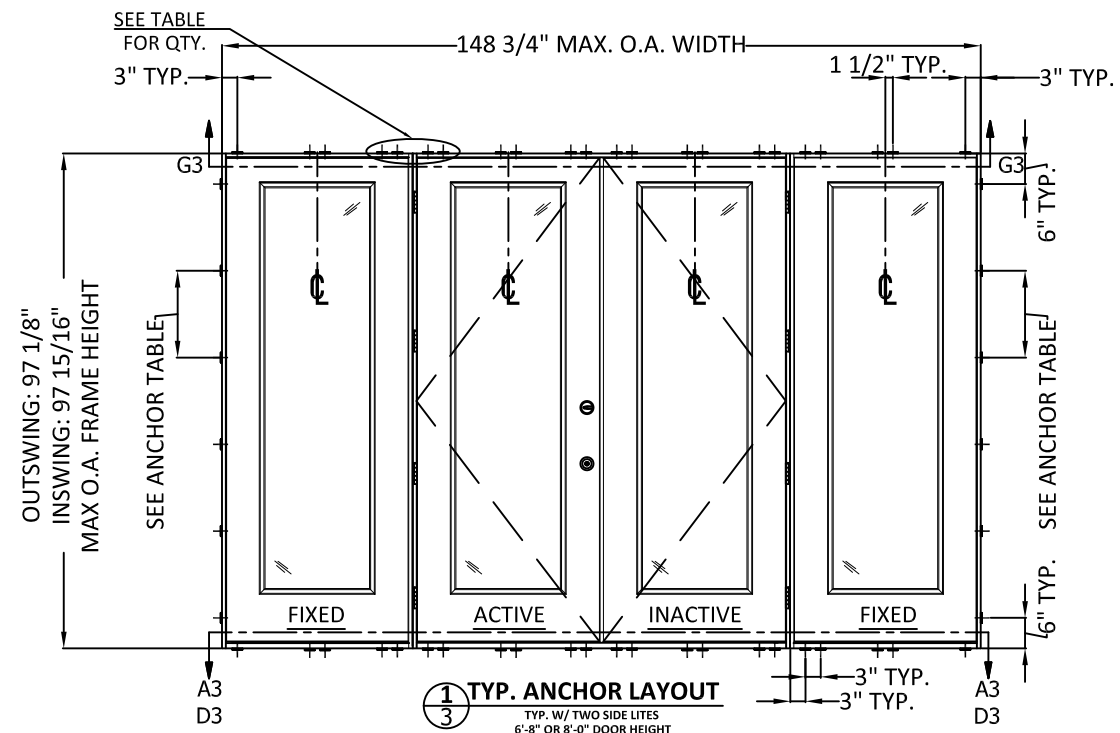
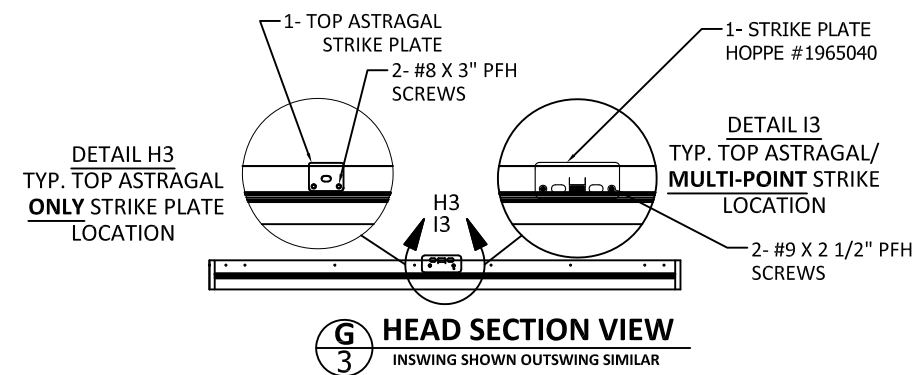
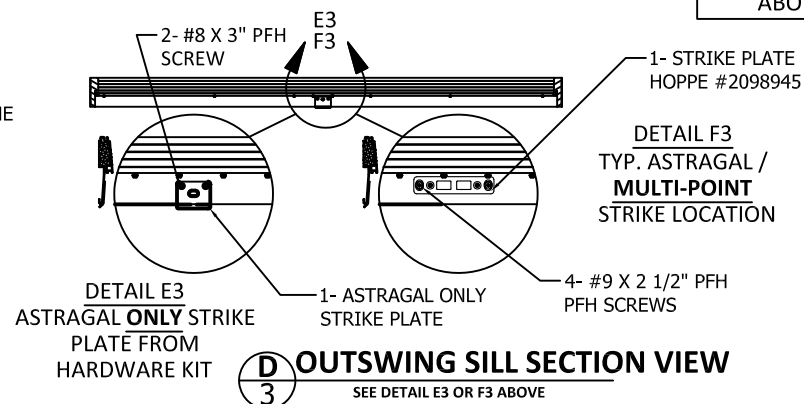
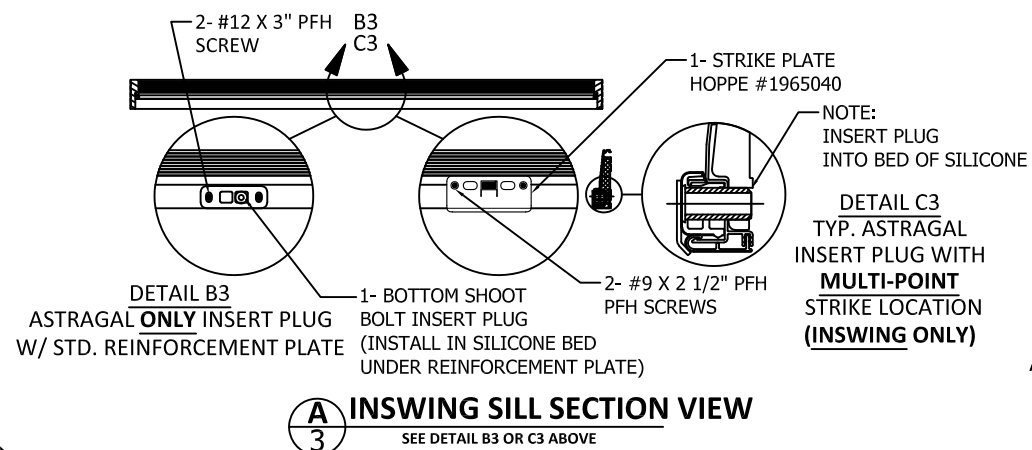
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SHEET: OF10

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING, AND SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
6. FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
8. SEE SHEETS 8 AND 9 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.
9. OPTIONALLY, ANCHORS CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

ANCHOR TABLE								
ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	6'8" DOORS		8'0" DOORS	
					MAX. O.C. SPACING AT JAMBS	# OF ANCHORS AT HEAD/SILL CLUSTERS	MAX. O.C. SPACING AT JAMBS	# OF ANCHORS AT HEAD/SILL CLUSTERS
WOOD SCREW	#10	2X WOOD BUCK OR FRAMING	1-1/2"	3/4"	17-1/2"	4	17-1/4"	4
ITW TAPCON	3/16"	CONCRETE/CMU	1-1/4"	2-1/2"	17-1/2"	4	17-1/4"	4
ELCO ULTRACON	1/4"	CONCRETE/CMU	1-3/8" - CONC. 1-1/4" - CMU	1"	17-1/2"	4	17-1/4"	4
ITW TAPCON	3/16"	CONCRETE/CMU	1-1/4"	1-1/8" - CONC. 2" - CMU	11-5/8"	8	14-3/8"	6



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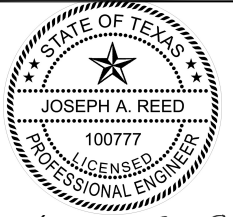
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TYPICAL ANCHOR LAYOUTS AND NOTES

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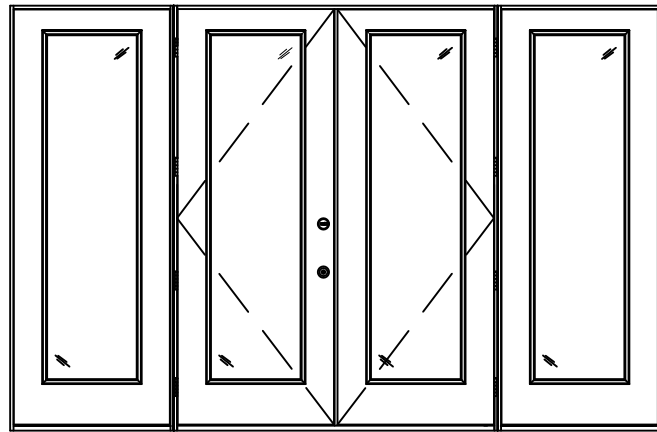
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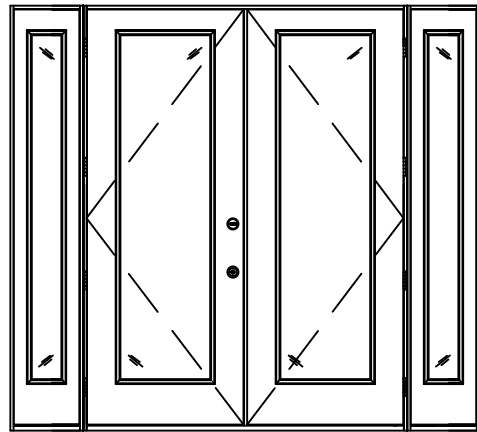
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SHEET: OF 10

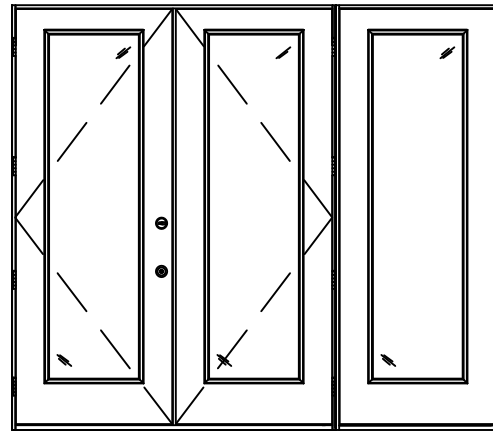
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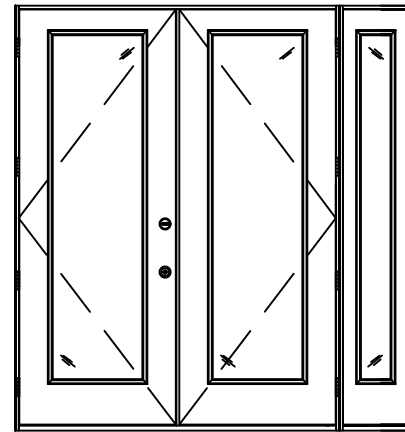
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4 **O,XX,O ELEVATION**
WITH 3'0" SIDELITES



2
4 **O,XX,O ELEVATION**
WITH 1'3" SIDELITES



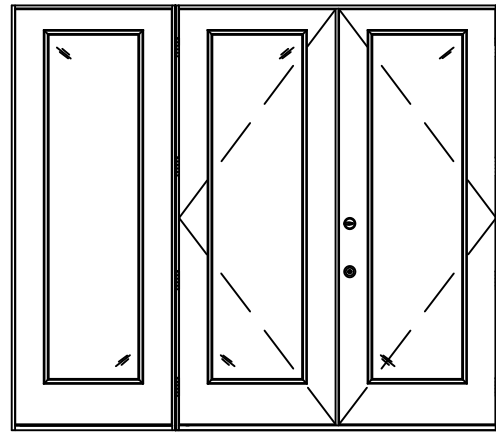
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4 **XX,O ELEVATION**
WITH 3'0" SIDELITE



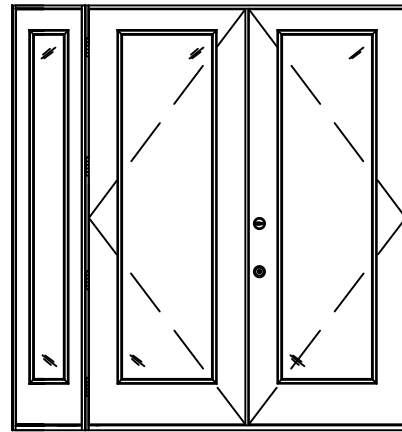
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4 **XX,O ELEVATION**
WITH 1'3" SIDELITE

NOTES:

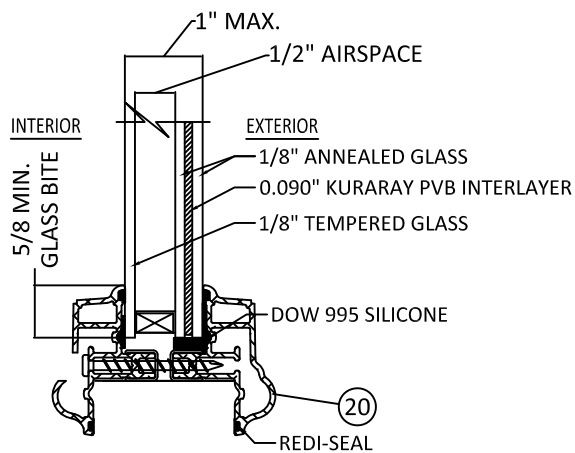
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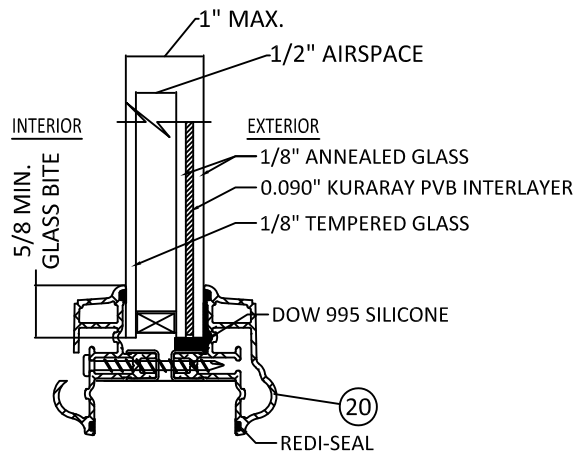
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WITH 3'0" SIDELITE



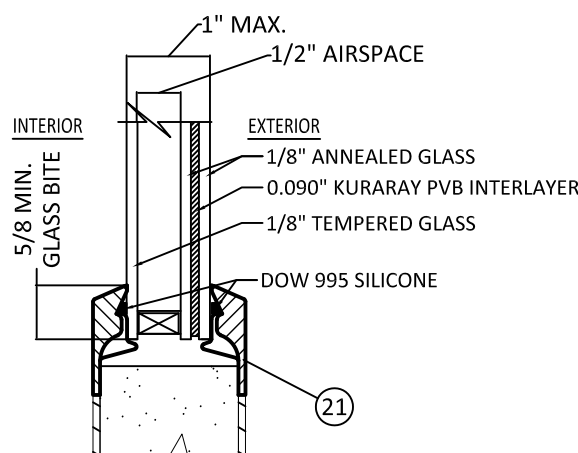
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4 **XX,O ELEVATION**
WITH 1'3" SIDELITE



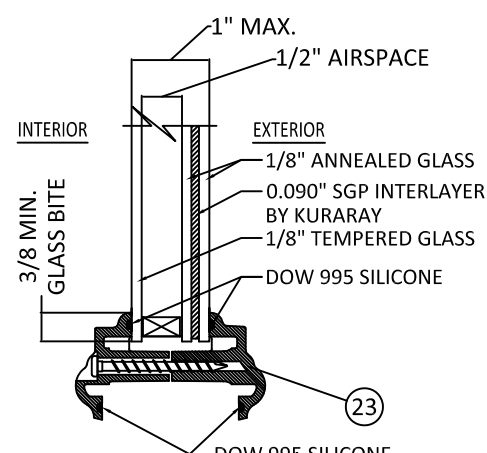
7
4 **6'-8" GLAZING DETAIL**
20 1/2" MAX. D.L.O. WIDTH
62 1/2" MAX. D.L.O. HEIGHT



8
4 **8'-0" GLAZING DETAIL**
20 1/2" MAX. D.L.O. WIDTH
78 1/2" MAX. D.L.O. HEIGHT



9
4 **FLUSH GLAZE DETAIL**
23 7/8" MAX. D.L.O. WIDTH
78 7/8" MAX. D.L.O. HEIGHT



10
4 **GLAZING DETAIL**
FOR OVAL, SUNBURST, AND ROUND TOPS
IN 6'8" UNITS AT DP+/- 50 PSF ONLY

NOTE:

FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECORATIVE, EXTERNAL WROUGHT IRON AND RADIUS (SHAPED) LITES ARE APPROVED IN ALL GLAZING DETAILS SHOWN ABOVE.

TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
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QUALIFIED CONFIGURATIONS
& GLAZING DETAIL

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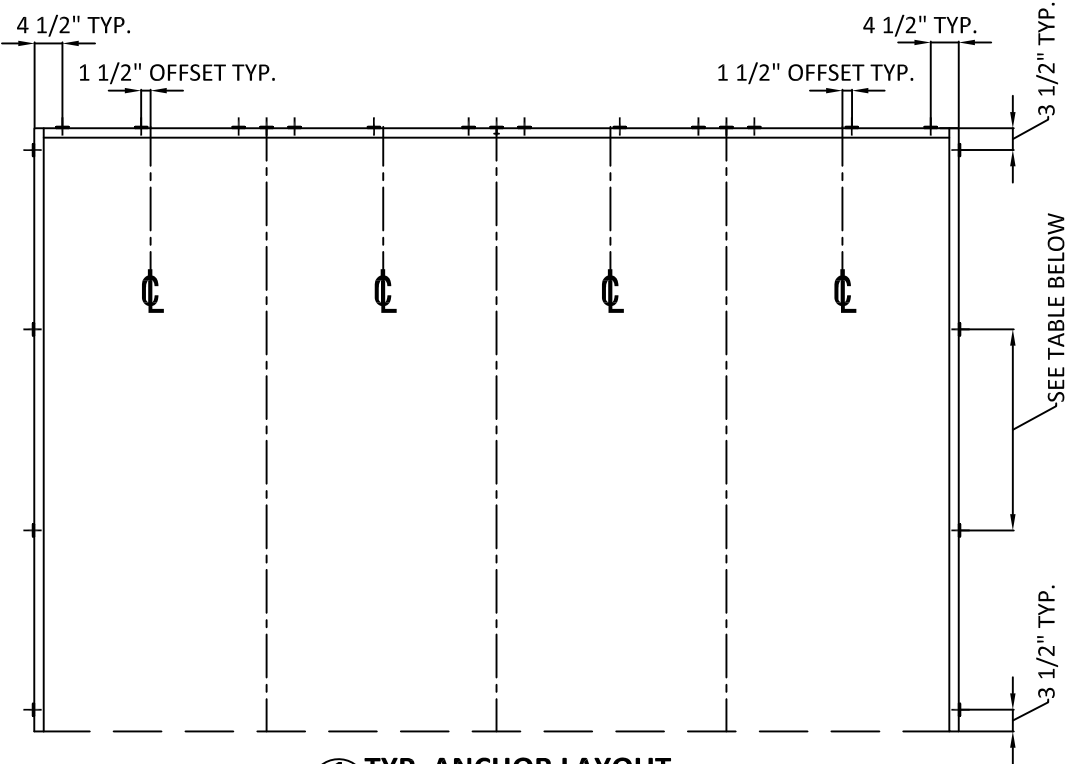
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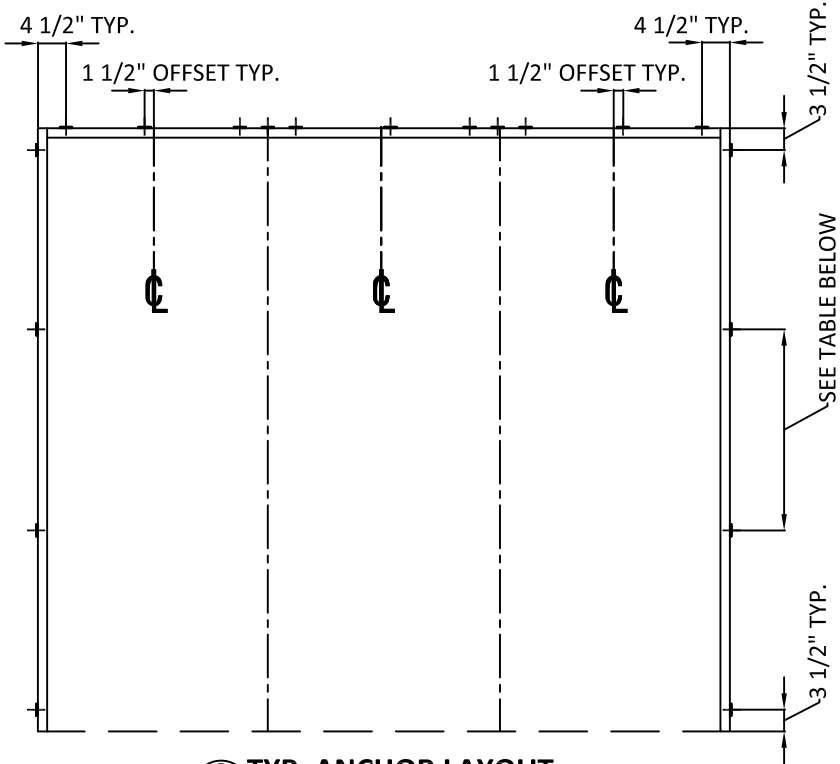
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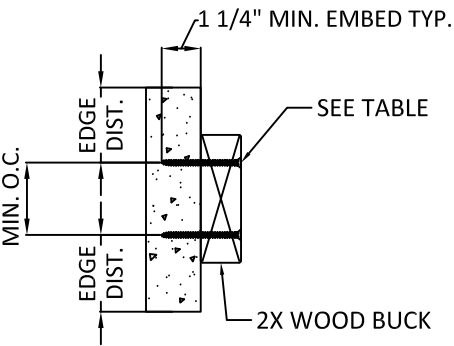
SHEET: 4 OF 10



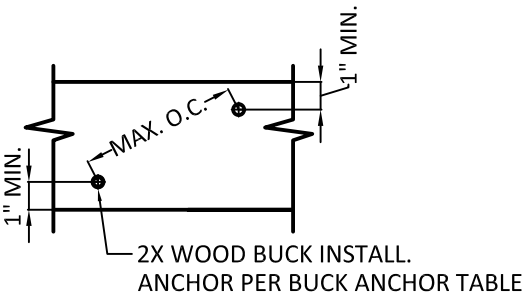
1
5 TYP. ANCHOR LAYOUT
OPTIONAL 2X BUCK IN CONCRETE/MASONRY



2
5 TYP. ANCHOR LAYOUT
OPTIONAL 2X BUCK IN CONCRETE/MASONRY



3
5 2X WOOD BUCK INSTALL.
CROSS SECTION



4
5 2X WOOD BUCK INSTALL.
SIDE VIEW

NOTES:

- 2X BUCK IS NOT FOR INSTALLATION AT SILL. THRESHOLD SHALL BE FASTENED IN ACCORDANCE WITH ANCHOR LOCATIONS SHOWN ON SHEET 3.
- ANCHORS MAY BE STAGGERED AS SHOWN IN DETAIL 4/5.

2X BUCK ANCHOR TABLE							
ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DIST. TO SUBSTRATE	MIN. CENTER TO CENTER DISTANCE	6'8" DOORS	8'0" DOORS
						MAX. O.C. SPACING AT JAMBS	MAX. O.C. SPACING AT JAMBS
ITW TAPCON	1/4"	CONCRETE/CMU	1-1/4"	2-1/2"	4"	25"	30-1/4"
ELCO ULTRA CON	1/4"	CONCRETE/CMU	1-3/8" - CONC. 1-1/4" - CMU	1"	4"	25"	30-1/4"

PREPARED BY:

TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED
OPTIONAL 2X BUCK
ANCHORING DETAILS

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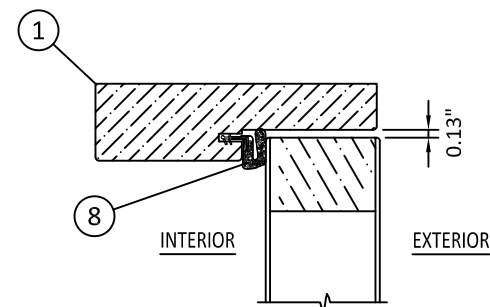
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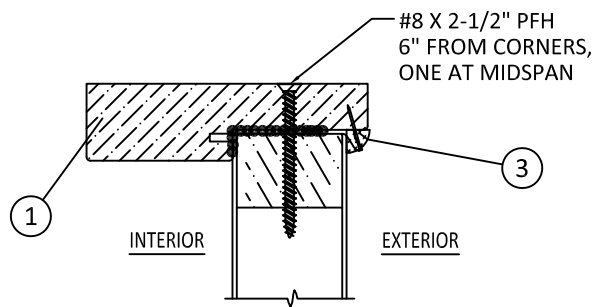
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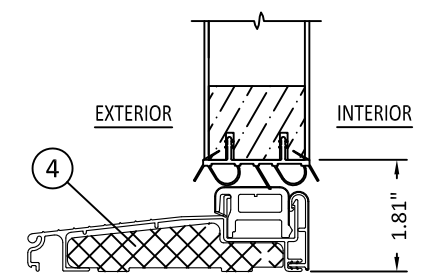
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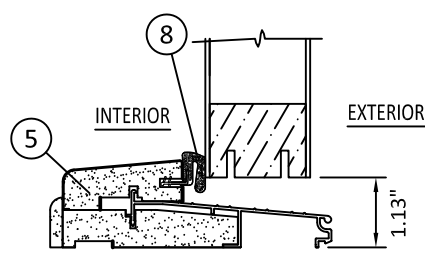
1
6 **OPERABLE HEAD**
OUTSWING SHOWN - INSWING SIMILAR



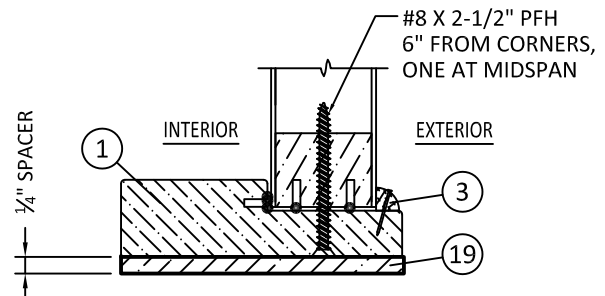
2
6 **SIDELITE HEAD**
OUTSWING SHOWN - INSWING SIMILAR



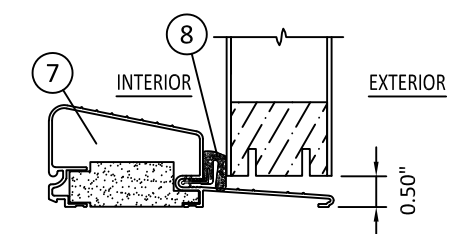
3
6 **OPERABLE SILL**
INSWING



4
6 **OPERABLE SILL**
OUTSWING



5
6 **SIDELITE SILL**
OUTSWING SHOWN - INSWING SIMILAR



7
6 **OPERABLE SILL**
OUTSWING

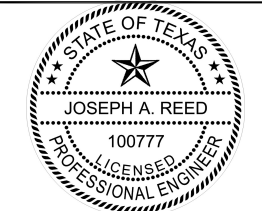
PREPARED BY:

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IMPACT APPROVED
VERTICAL ASSEMBLIES

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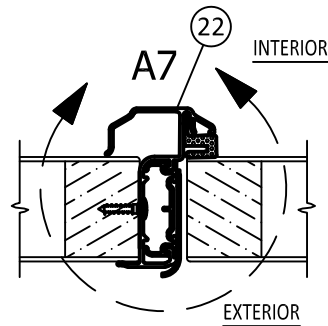
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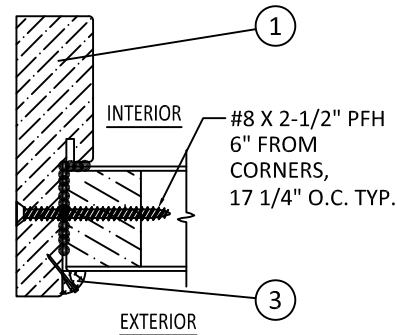


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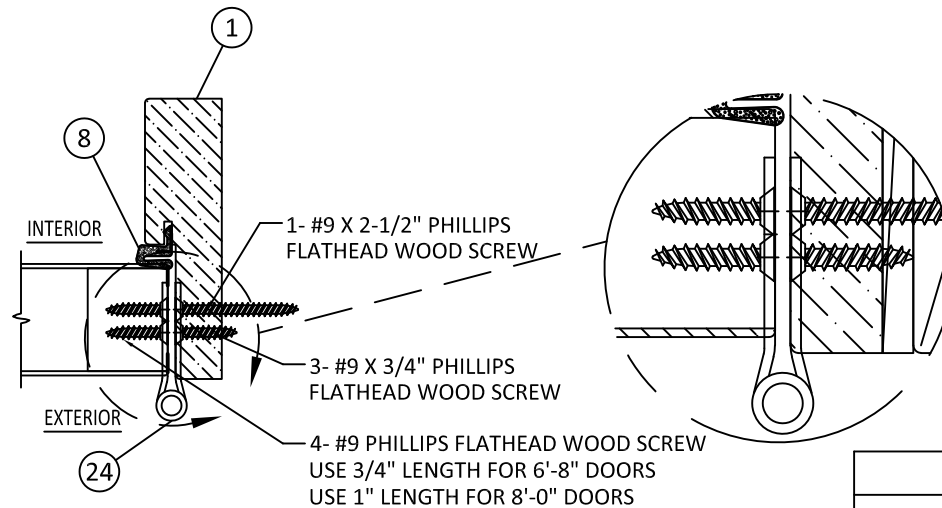
DATE:	10.06.2021
DWG. BY:	CHK. BY:
GL	SS
SCALE:	NTS
DWG. #:	A010931
SHEET:	OF 10



1
7 MEETING STILE AT ASTRAGAL
OUTSWING SHOWN - INSWING SIMILAR

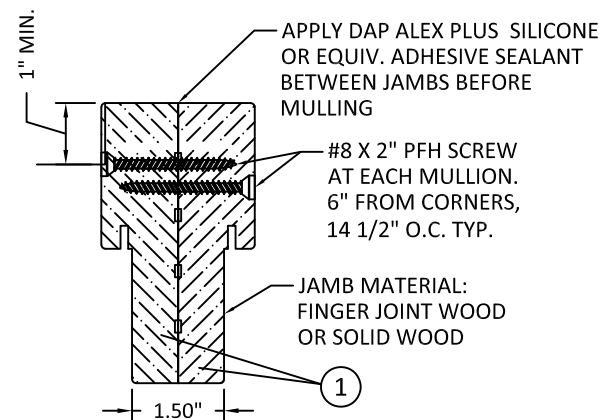


2
7 FIXED JAMB
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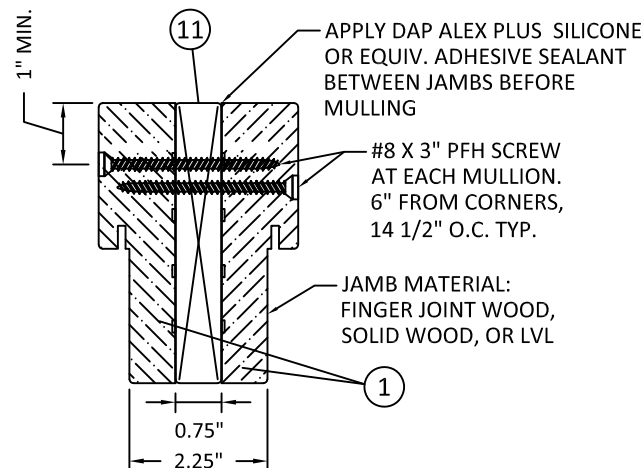


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7 HINGE JAMB
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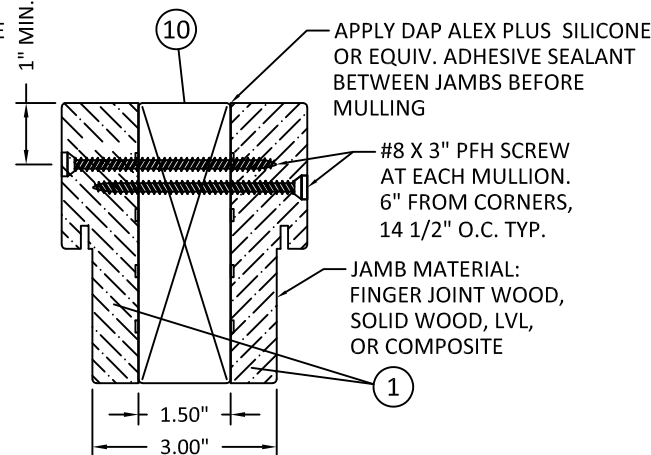
HINGE SCHEDULE	
DOOR HEIGHT	QUANTITY
6'-8"	3
8'-0"	4



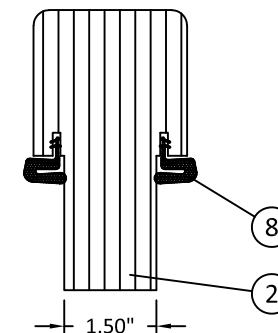
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7 BACK-TO-BACK JAMB
NO MULLION REINFORCEMENT



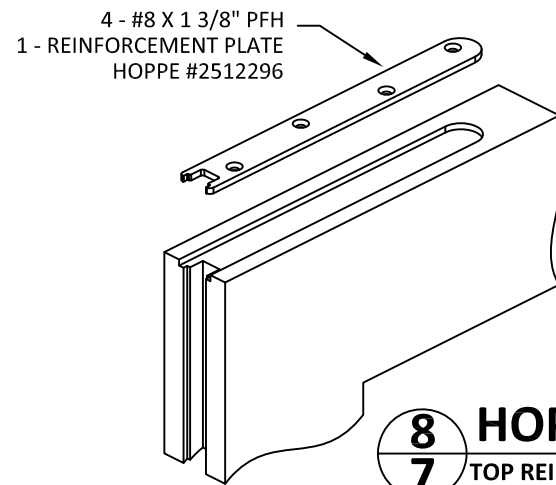
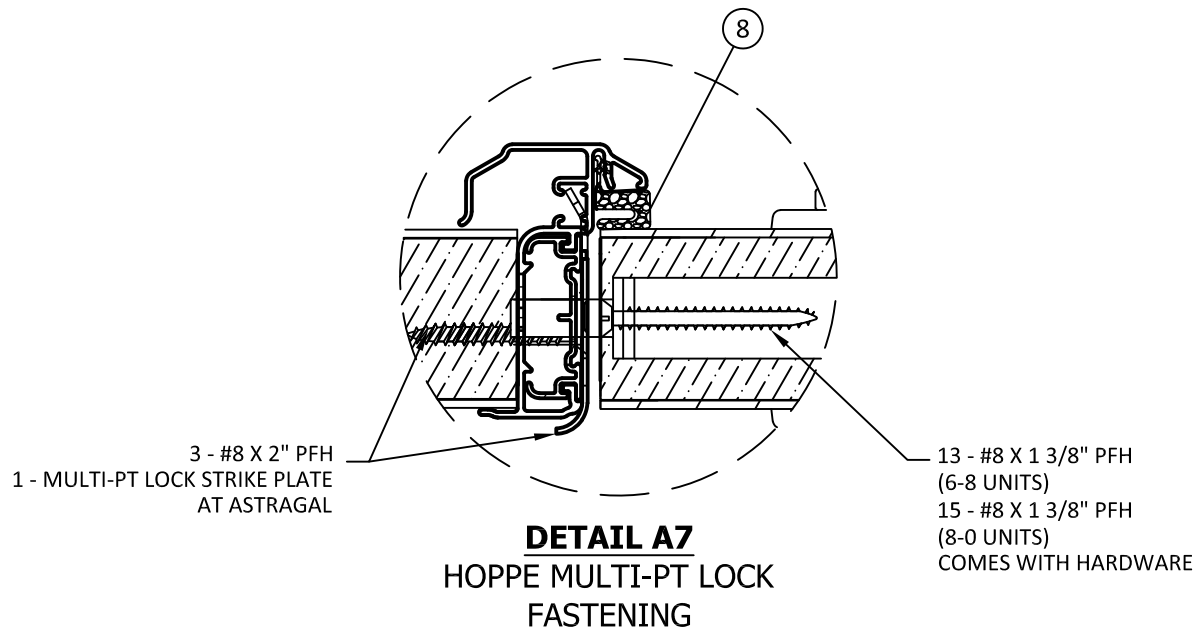
5
7 BACK-TO-BACK JAMB
1X MULLION REINFORCEMENT



6
7 BACK-TO-BACK JAMB
2X MULLION REINFORCEMENT



7
7 INTEGRAL MULLION
FOR 6'-8" AND 8'-0" UNITS



8
7 HOPPE MULTI-POINT LOCK
TOP REINFORCEMENT PLATE - ACTIVE PANEL ONLY

NOTES:
-ALL WOOD FRAME MEMBERS USED IN MULLION ASSEMBLIES ABOVE TO BE PONDEROSA PINE (MIN. S.G. = 0.45) OR GREATER.
-ALL WOOD 1x AND 2x REINFORCEMENTS USED IN MULLION ASSEMBLIES ABOVE TO BE SPRUCE/PINE/FIR (MIN. S.G. = 0.42) OR GREATER.

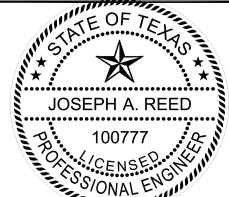
TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED

HORIZONTAL ASSEMBLIES

3737 LAKEPORT BLVD.,
KLAMATH FALLS, OR 97601
PH: (541)882-3451
FAX: (541)850-2609

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JOSEPH A. REED, P.E.
Texas No. 100777
5 Leigh Drive
York, PA. 17406
(717) 846-1200

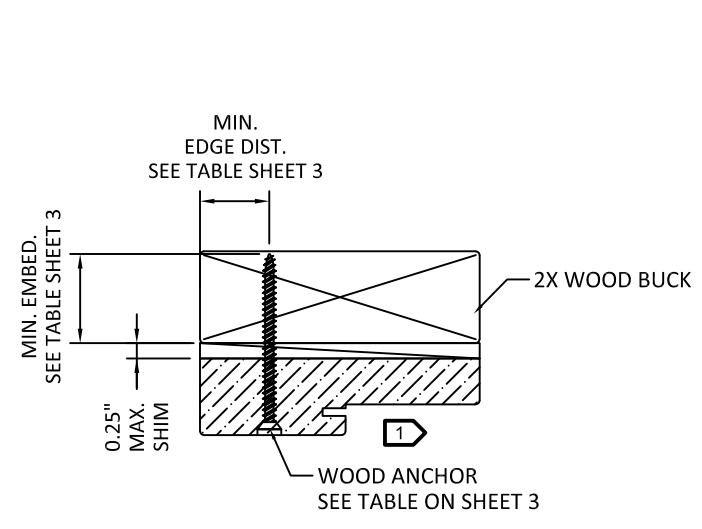
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CHK. BY: SS

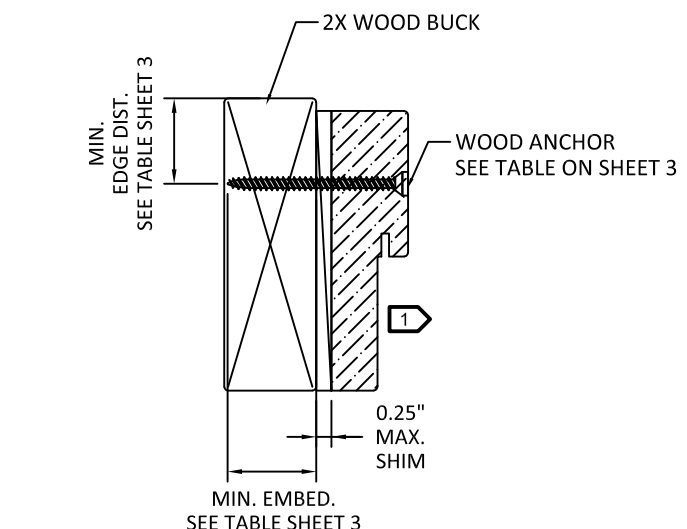
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DWG. #: A010931

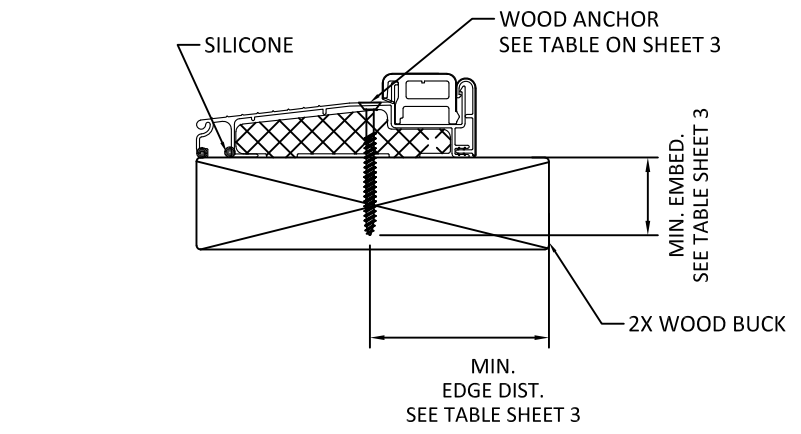
SHEET: OF 10



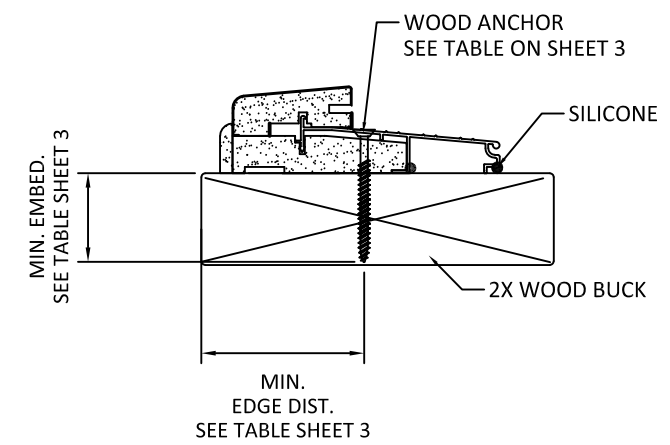
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8 **HEAD (TYPICAL)**
OUTSWING SHOWN - INSWING SIMILAR



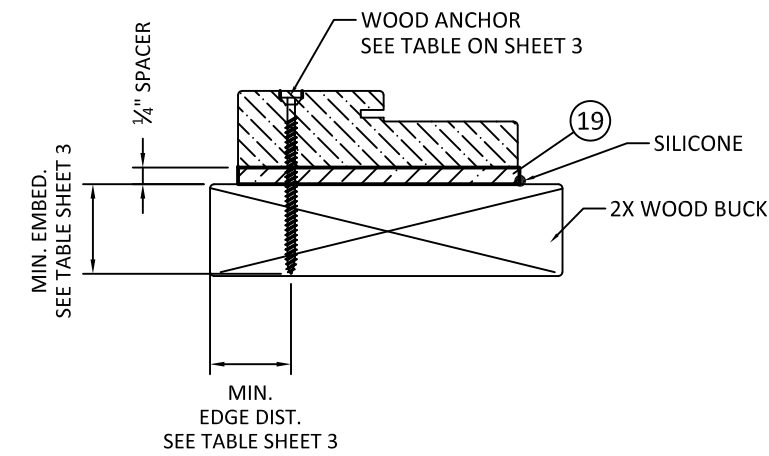
2
8 **JAMB (TYPICAL)**
OUTSWING SHOWN - INSWING SIMILAR



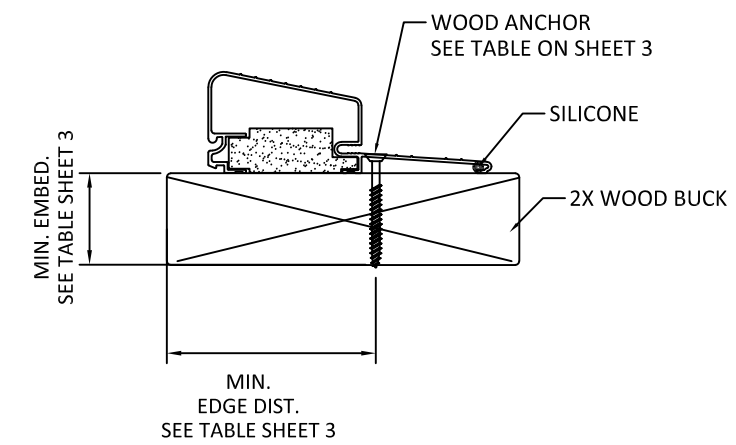
3
8 **OPERABLE SILL**
INSWING



4
8 **OPERABLE SILL**
OUTSWING



5
8 **SIDELITE SILL**
OUTSWING SHOWN - INSWING SIMILAR



7
8 **OPERABLE SILL**
HIGH BUMP OUTSWING

1 OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

PREPARED BY:

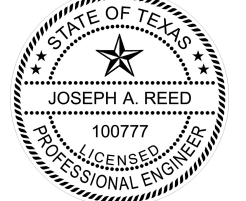
TITLE: **DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED**

WOOD SUBSTRATES

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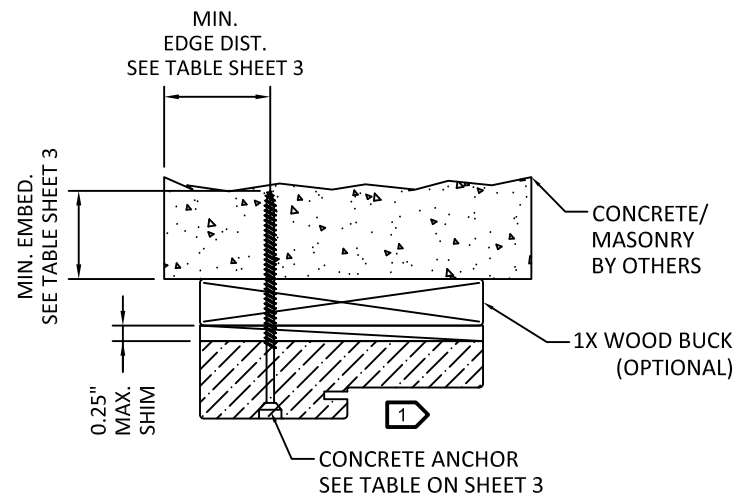
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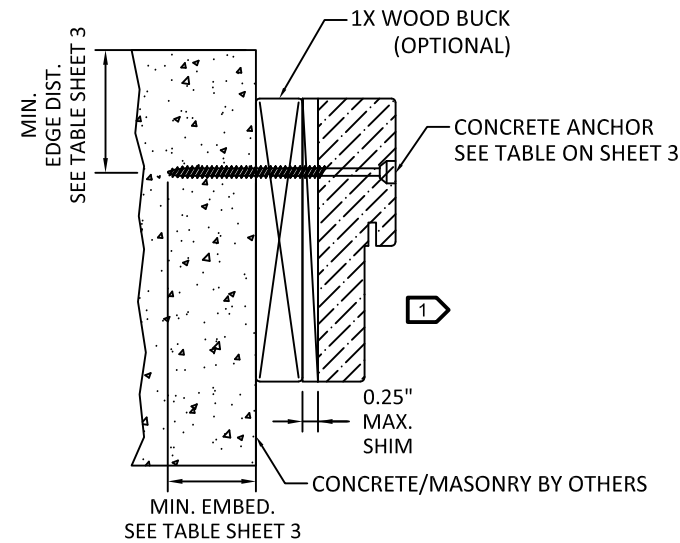


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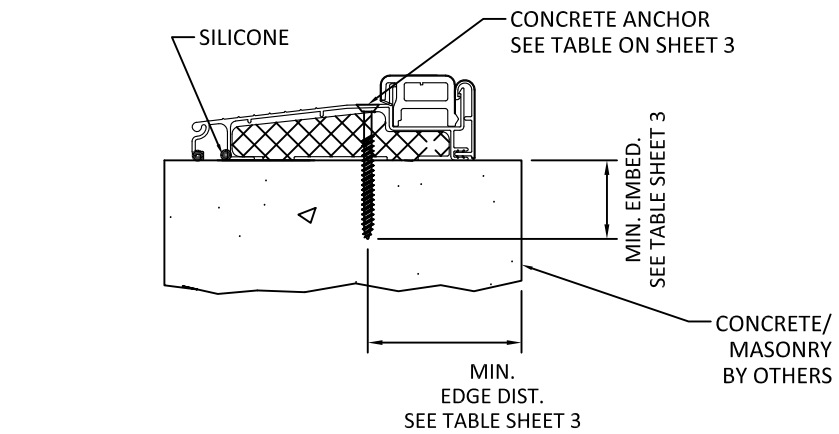
DATE: 10.06.2021	
DWG. BY: GL	CHK. BY: SS
SCALE: NTS	
DWG. #: A010931	
SHEET:	OF 10



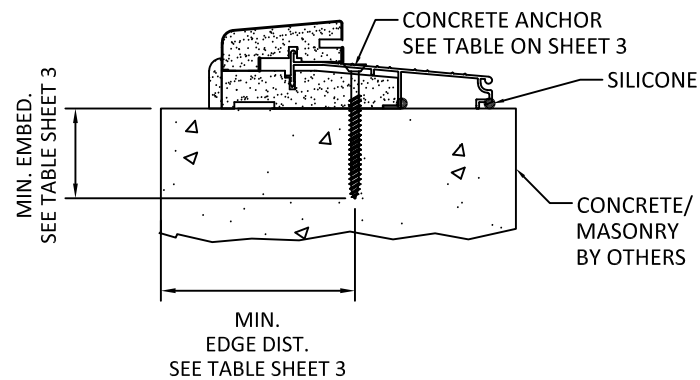
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9 HEAD (TYPICAL)
OUTSWING SHOWN - INSWING SIMILAR



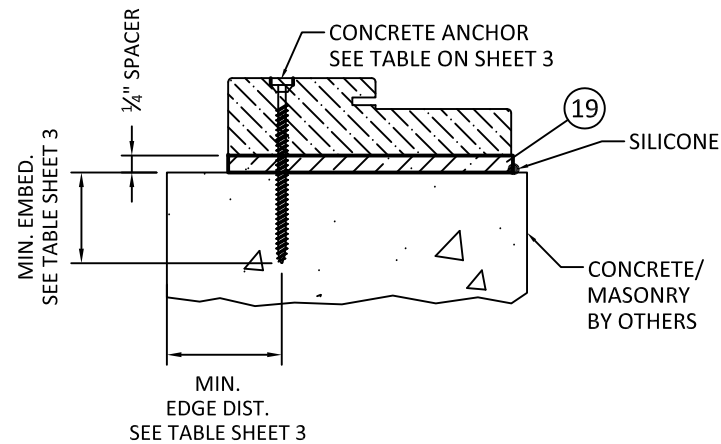
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9 JAMB (TYPICAL)
OUTSWING SHOWN - INSWING SIMILAR



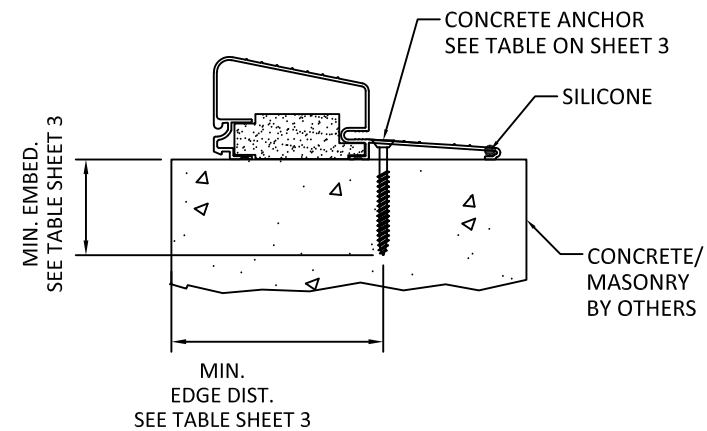
3
9 OPERABLE SILL
INSWING



4
9 OPERABLE SILL
OUTSWING



5
9 SIDELITE SILL
OUTSWING SHOWN - INSWING SIMILAR



7
9 OPERABLE SILL
HIGH BUMP OUTSWING

1 OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

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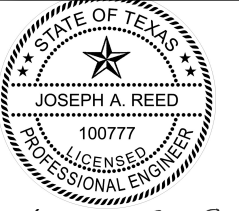
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IMPACT APPROVED

CONCRETE SUBSTRATES

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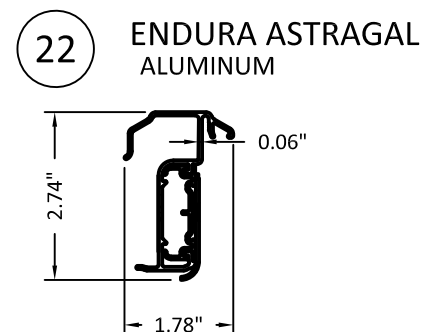
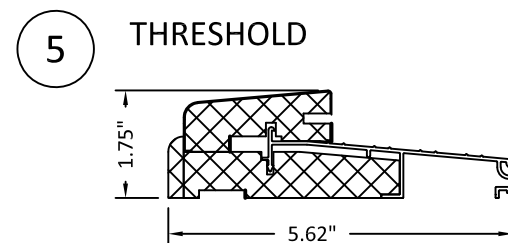
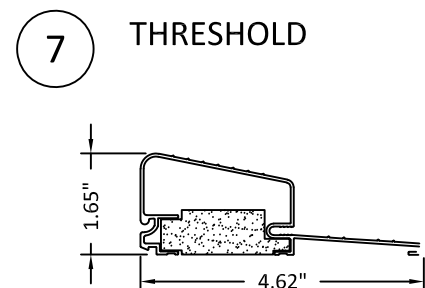
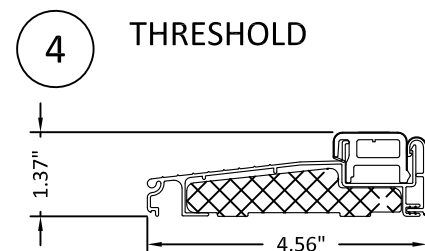
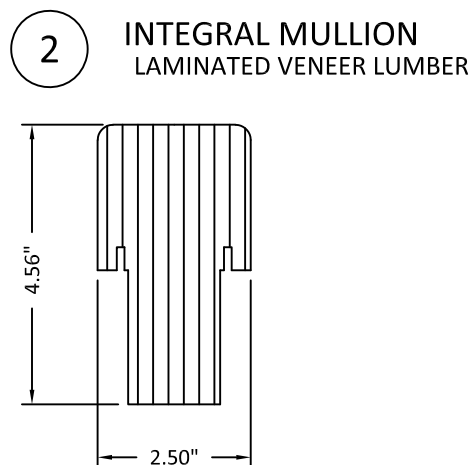
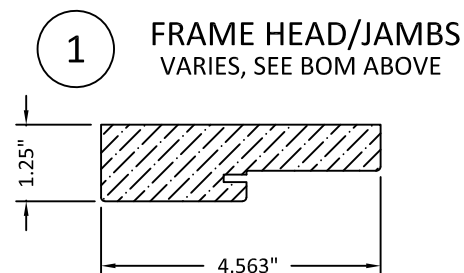
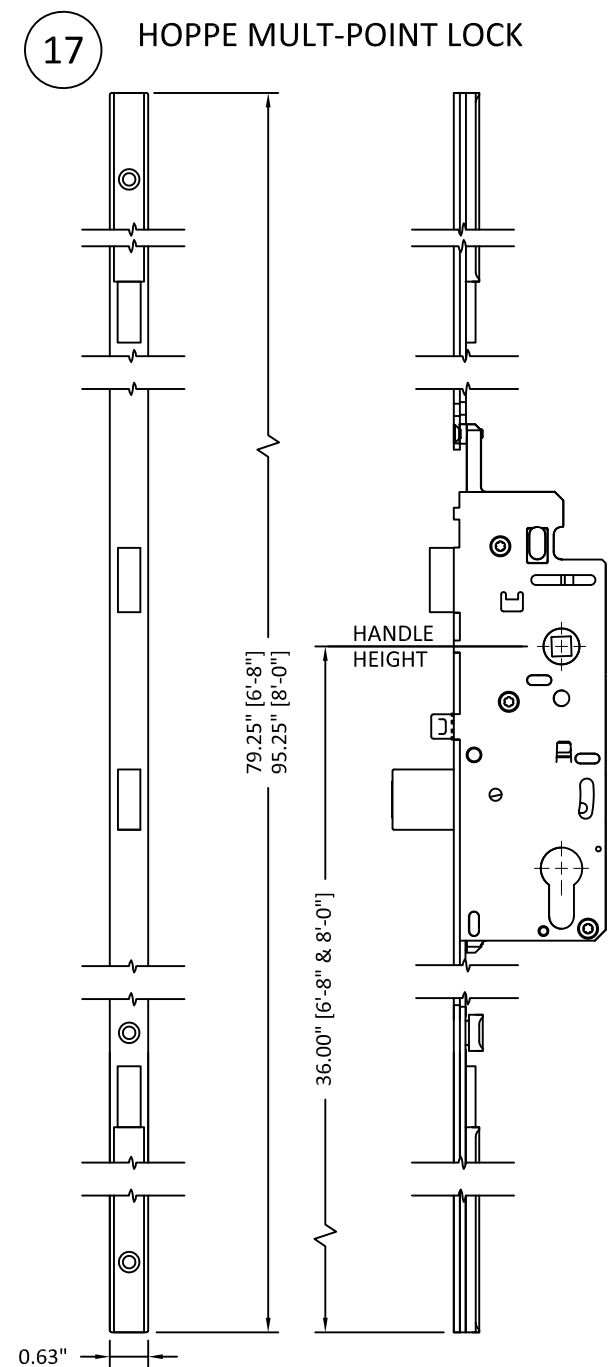
DWG. BY: GL
CHK. BY: SS

SCALE: NTS

DWG. #: A010931

SHEET: OF 10

BILL OF MATERIALS		
ITEM#	DESCRIPTION	MATERIAL
1	FRAME HEAD/JAMBS	FINGER-JOINTED PINE
		SOLID PINE
		LAMINATED VENEER LUMBER
		COMPOSITE
2	INTEGRAL MULL	LAMINATED VENEER LUMBER
3	SIDELITE STOP	WOOD
4	THRESHOLD	-
5	THRESHOLD	-
6	(NOT USED)	-
7	THRESHOLD	-
8	WEATHERSTRIP	URETHANE FOAM & POLYETHYLENE
9	NON-COMPRESSION SHIM (0.25" MAX. THK.)	COMPOSITE
10	2X WOOD (S.G. MUST BE 0.42 OR GREATER)	WOOD
11	1X WOOD (S.G. MUST BE 0.42 OR GREATER)	WOOD
12	#10 WOOD INSTALLATION SCREW W/ 1 1/2" MIN. EMBEDMENT	STEEL
13	CONC./CMU ANCHOR (SEE ANCHOR TABLE SHEETS 3 & 5)	STEEL
14	(NOT USED)	-
15	KWIKSET LOCK SERIES 400	STEEL
16	KWIKSET DEADBOLT SERIES 780	STEEL
17	HOPPE MULTI-POINT HARDWARE HLS9000	STEEL
18	(NOT USED)	-
19	PRESSURE TREATED SILL SPACER USED FOR FIXED PANEL	WOOD
20	ODL LITE KIT (LMI)	6063-T6 ALUMINUM
21	FLUSH GLAZING LEG	FIBERGLASS
22	ENDURA ASTRAGAL	6063-T6 ALUMINUM
23	ODL LIPLITE KIT (RADIUS LITES)	PC ABS
24	BUTT HINGE (SEE SCHEDULE SHEET 7)	STEEL



PREPARED BY:

TITLE: *DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED*

COMPONENTS AND BILL OF MATERIALS

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SHEET:	OF10
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