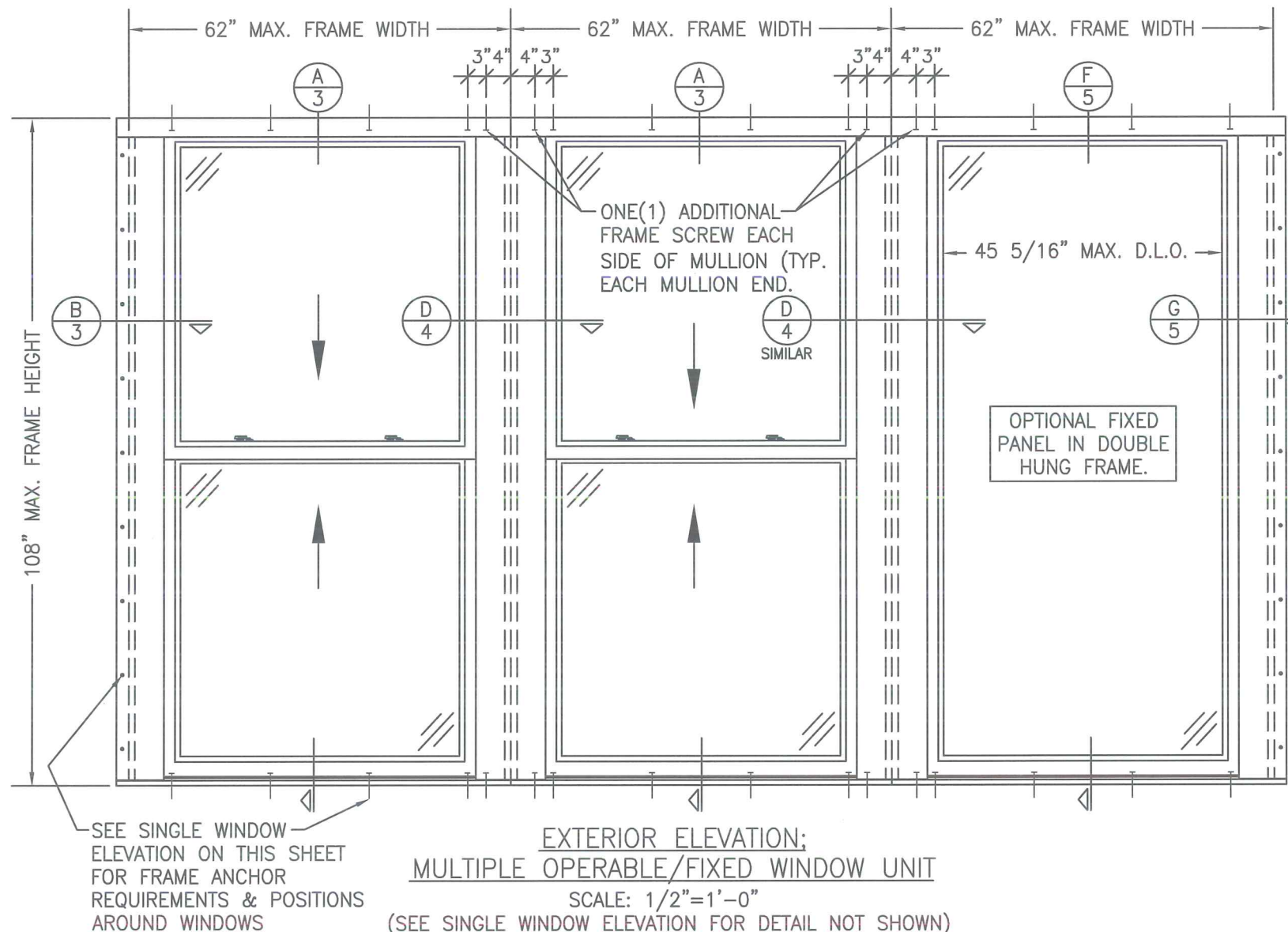
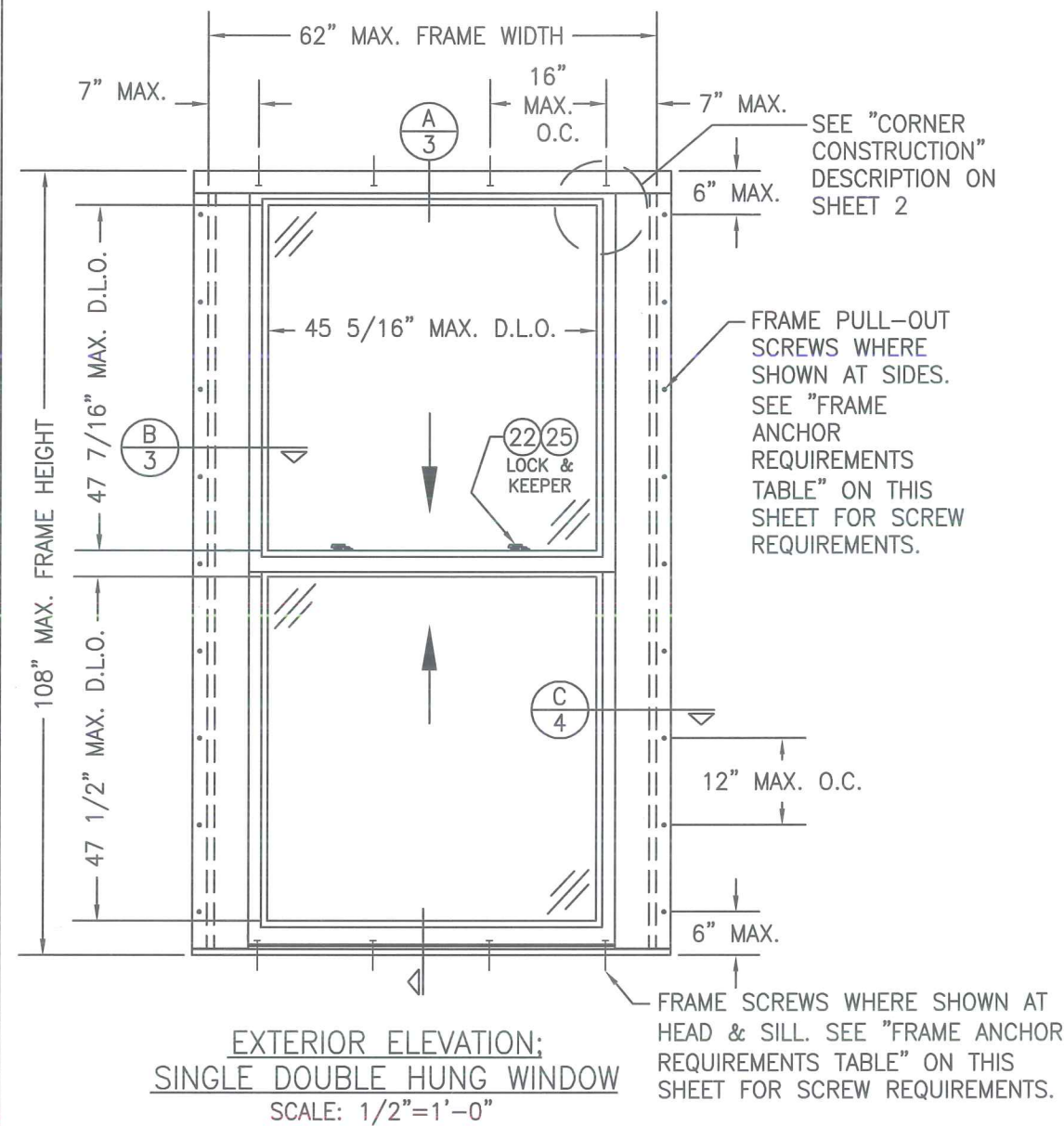




GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE(S).
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) PROVISIONS.
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
8. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, CHAPTERS 20 & 23.
10. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE & GOVERNING WIND VELOCITY.
11. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW DESIGN.

ALLOWABLE DESIGN PRESSURE
+65/-72 PSF
ALL SINGLE AND MULLED UNITS

FRAME ANCHOR REQUIREMENTS TABLE			
PULL-OUT SCREWS (SIDES)			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X8 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/2"	1/2"
FRAME SCREWS (HEAD & SILL)			
2X8 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II'S, OR POWERS RAWL TAPPERS (HARDENED STEEL OR S.S.).			

DATE: 8/26/14

DATE: 10/30/15

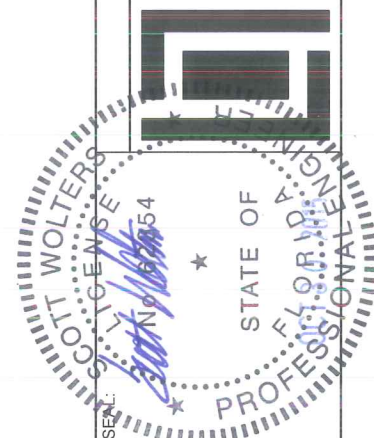
REVISION DESCRIPTION: 2014 FBC CODE UPDATE

NO. 1

DOUBLE HUNG WOOD WINDOWS

LUXBAUM LLC
WINDOWS + DOORS

1501 NORTHPOINT PARKWAY, SUITE 101
WEST PALM BEACH, FL 33407
Ph: (561) 684-1500
www.luxbaum.com

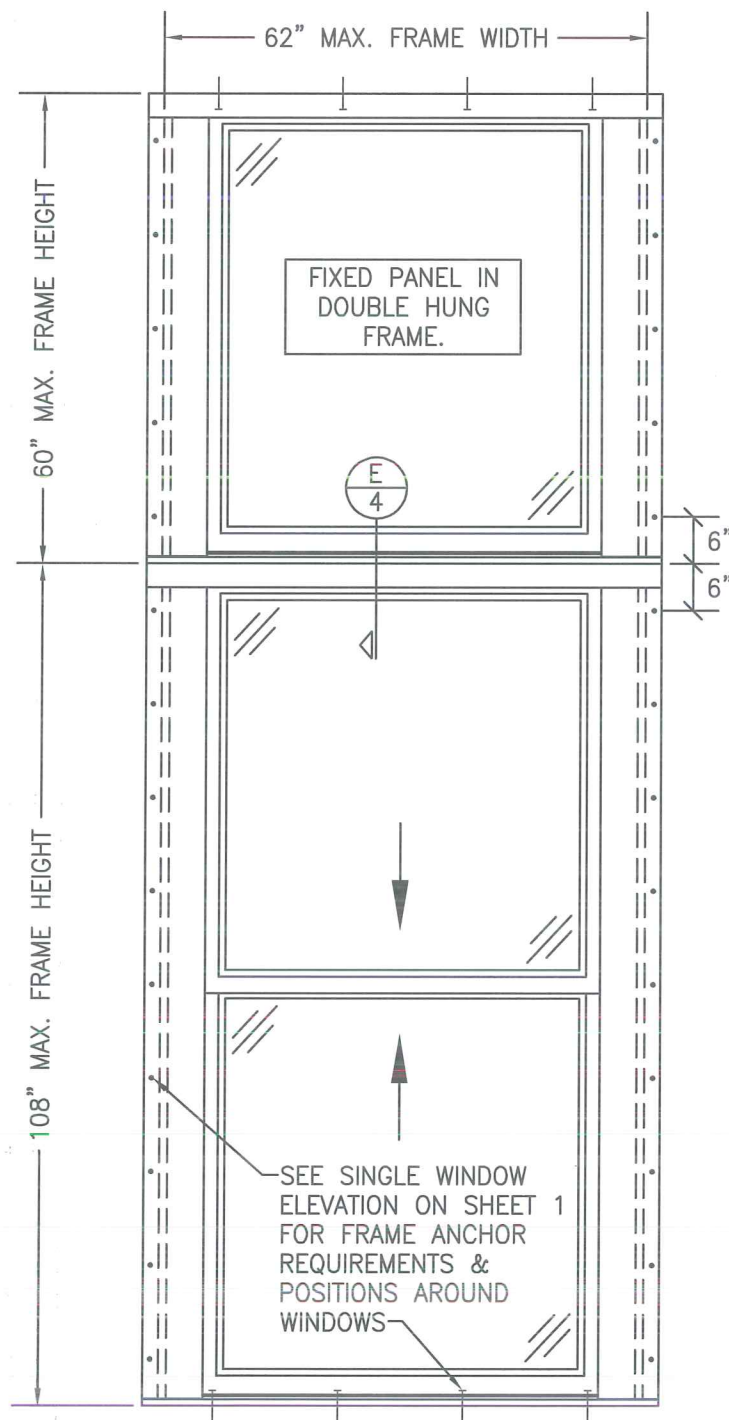


SCOTT WOLTERS
FL PE# 62354

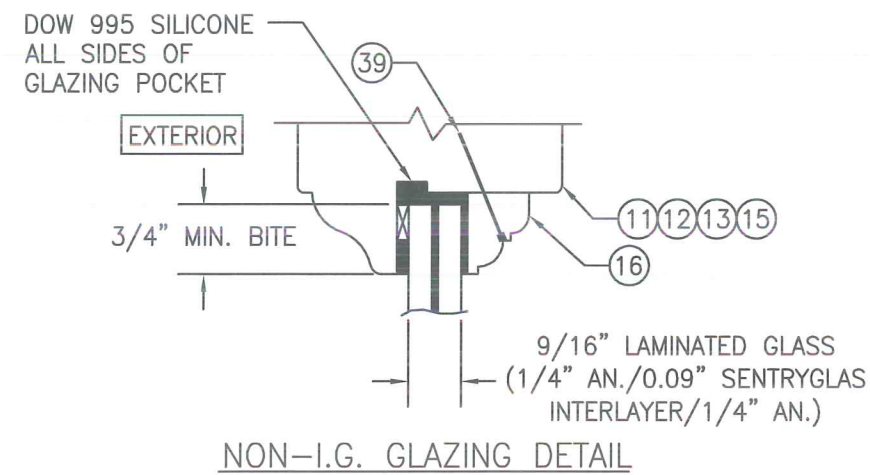
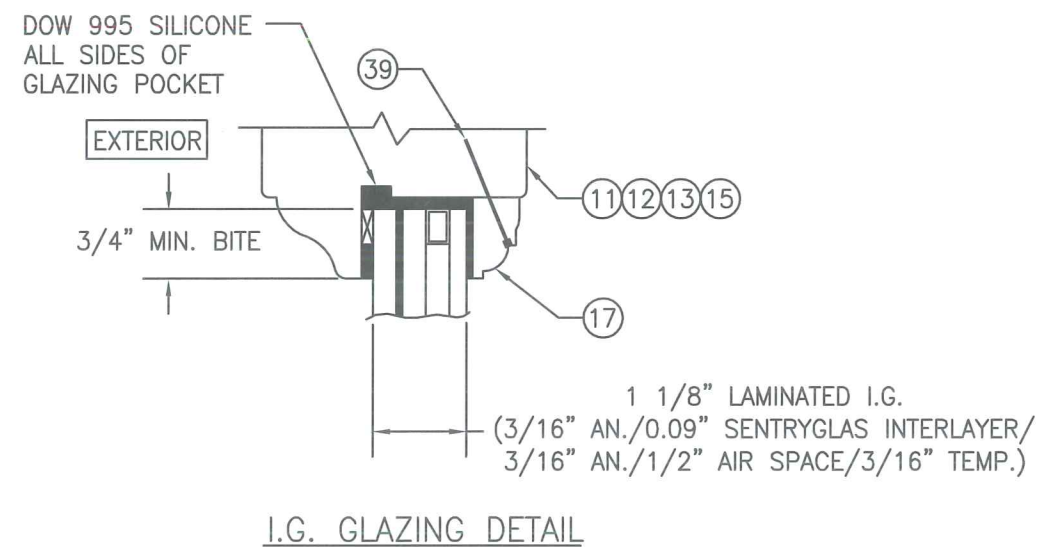
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

DRAWING NO. DOUBLE HUNG

SHEET NO. 1 OF 6



EXTERIOR ELEVATION;
SINGLE DOUBLE HUNG WINDOW WITH TRANSOM
SCALE: 1/2"=1'-0"
(SEE SINGLE WINDOW ELEVATION FOR DETAIL NOT SHOWN)



CORNER CONSTRUCTION

HEAD JAMB CORNERS: THE SECONDARY JAMB (ITEM #3B) & HEAD (ITEM #1) MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE SECONDARY JAMB MEMBERS ARE MECHANICALLY ATTACHED TO THE HEAD USING TWO (2) NO. 10 X 2 1/2" SMS. THE PRIMARY JAMB (ITEM #3A) MEMBERS ARE COPED, BUTTED, & SECURED INTO THE HEAD USING TWO (2) NO. 10 X 3 1/2" SMS.

SILL JAMB CORNERS: THE SECONDARY JAMB (ITEM #3B) & SILL (ITEM #2) MEMBERS ARE SQUARE CUT & BUTTED TOGETHER. THE SECONDARY JAMB MEMBERS ARE MECHANICALLY ATTACHED TO THE SILL USING TWO (2) NO. 10 X 2 1/2" SMS. THE PRIMARY JAMB (ITEM #3A) MEMBERS ARE COPED, BUTTED, & SECURED INTO THE SILL USING TWO (2) NO. 10 X 3 1/2" SMS.

SASH CORNERS: THE VERTICAL SASH MEMBERS WERE COPED, BUTTED & MECHANICALLY FASTENED TO THE HORIZONTAL SASH MEMBERS USING ONE (1) #5/8" X 3" LONG & TWO (2) #1/2" X 3" LONG MERBAU DOWELS

DATE: 8/26/14

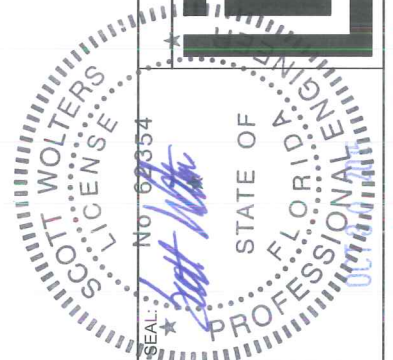
DATE

REVISION DESCRIPTION

NO.

DOUBLE HUNG WOOD WINDOWS

LUXBAUM, LLC
WINDOWS + DOORS
1501 NORTHPOINT PARKWAY, SUITE 101
WEST PALM BEACH, FL 33407
Ph: (561) 684-1500
www.luxbaum.com



SCOTT WALTERS
FL PE# 62354

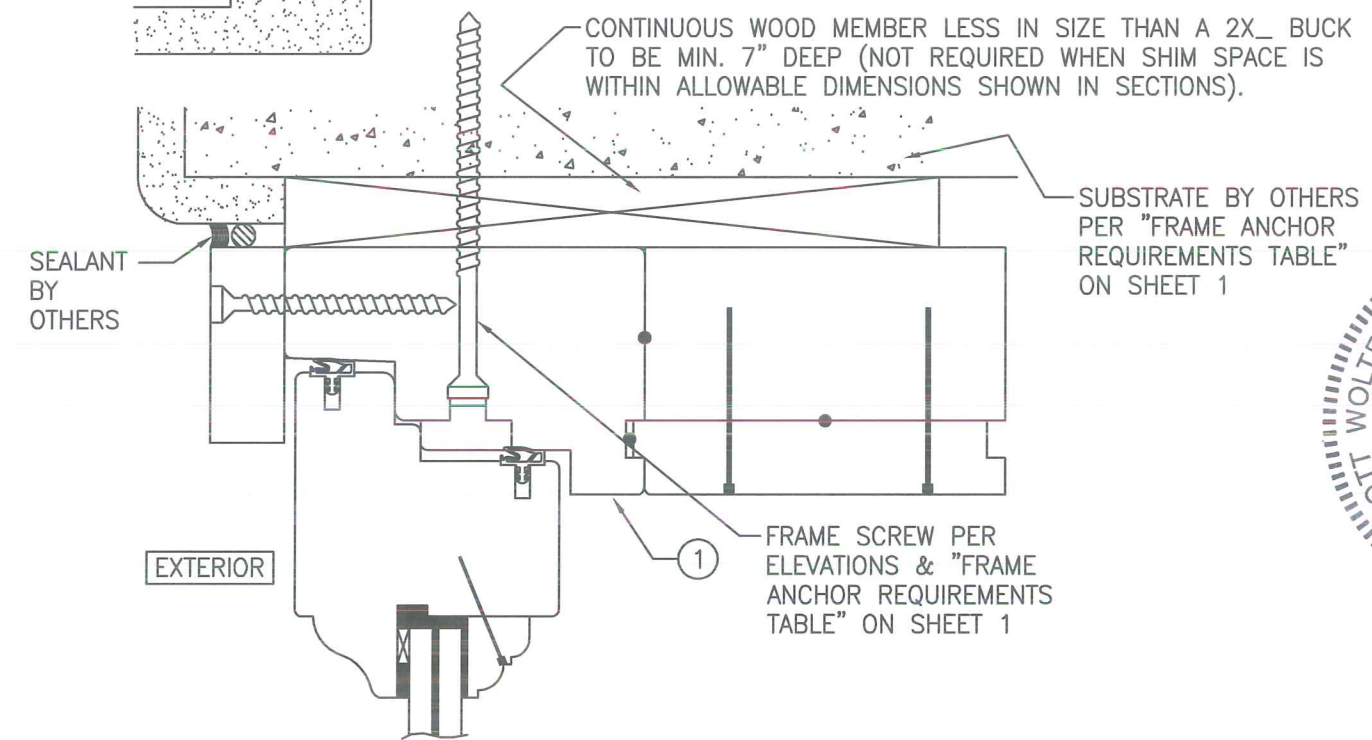
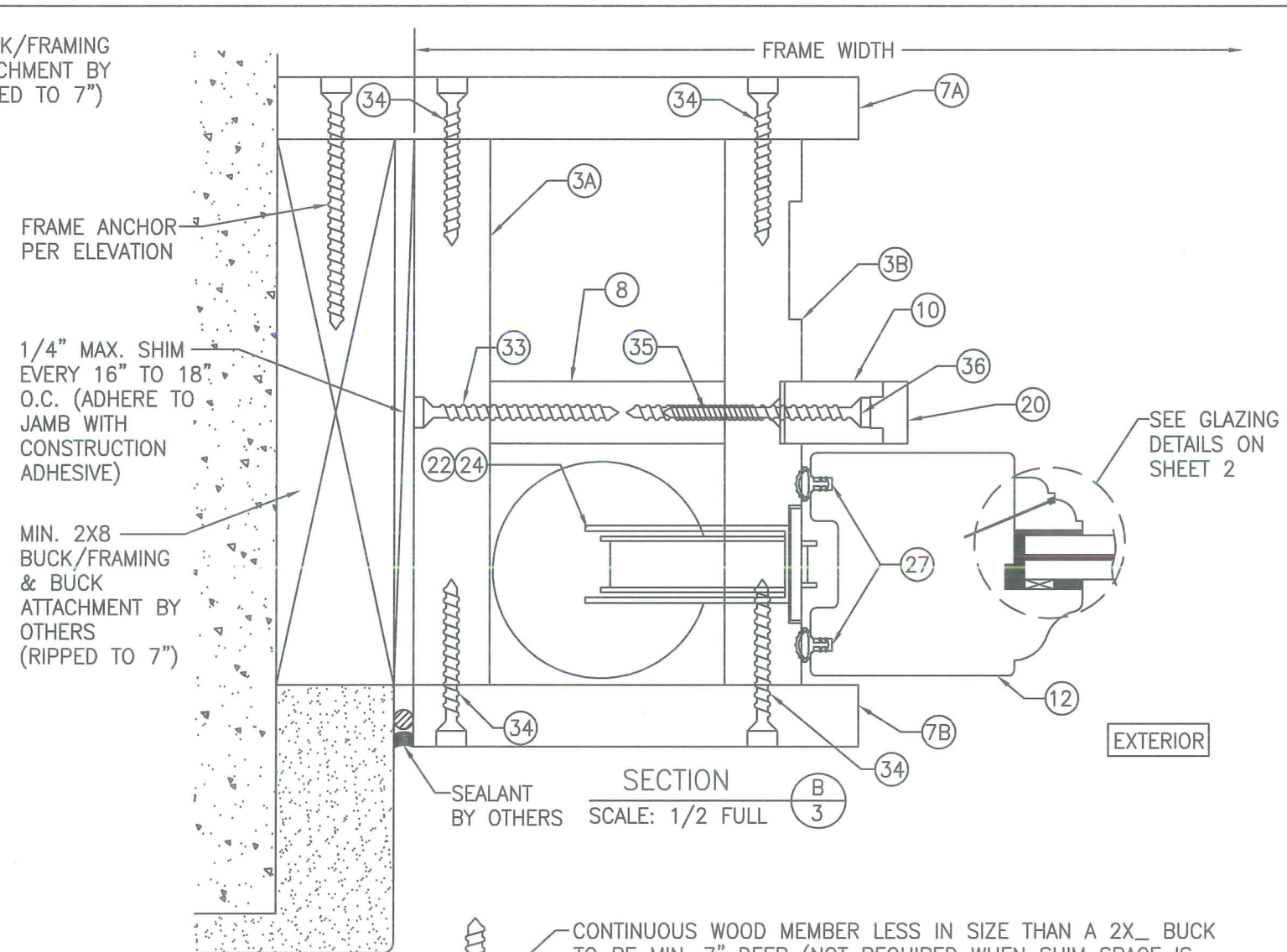
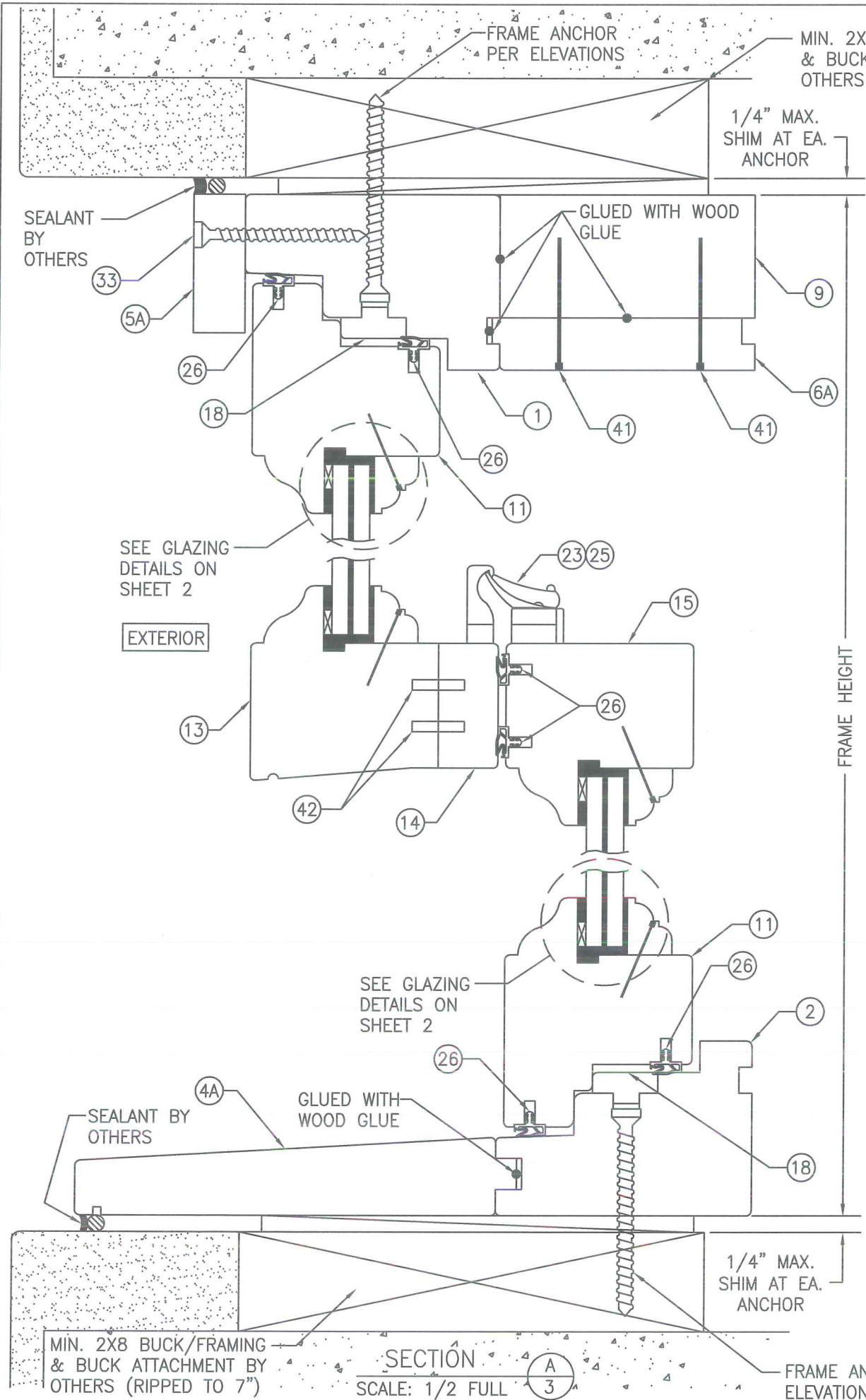
WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD, N
WEST PALM BEACH, FL 33412

DRAWING NO.

DOUBLE HUNG

SHEET NO.

2 OF 6



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DATE:	8/26/14				
DATE					
REVISION DESCRIPTION					
NO.					

LUXBAUM LLC
WINDOWS + DOORS

1501 NORTHPOINT PARKWAY, SUITE 101
WEST PALM BEACH, FL 33407

Ph: (561) 684-1500
www.luxbaum.com

SCOTT WOLTERS
FL PER# 62354

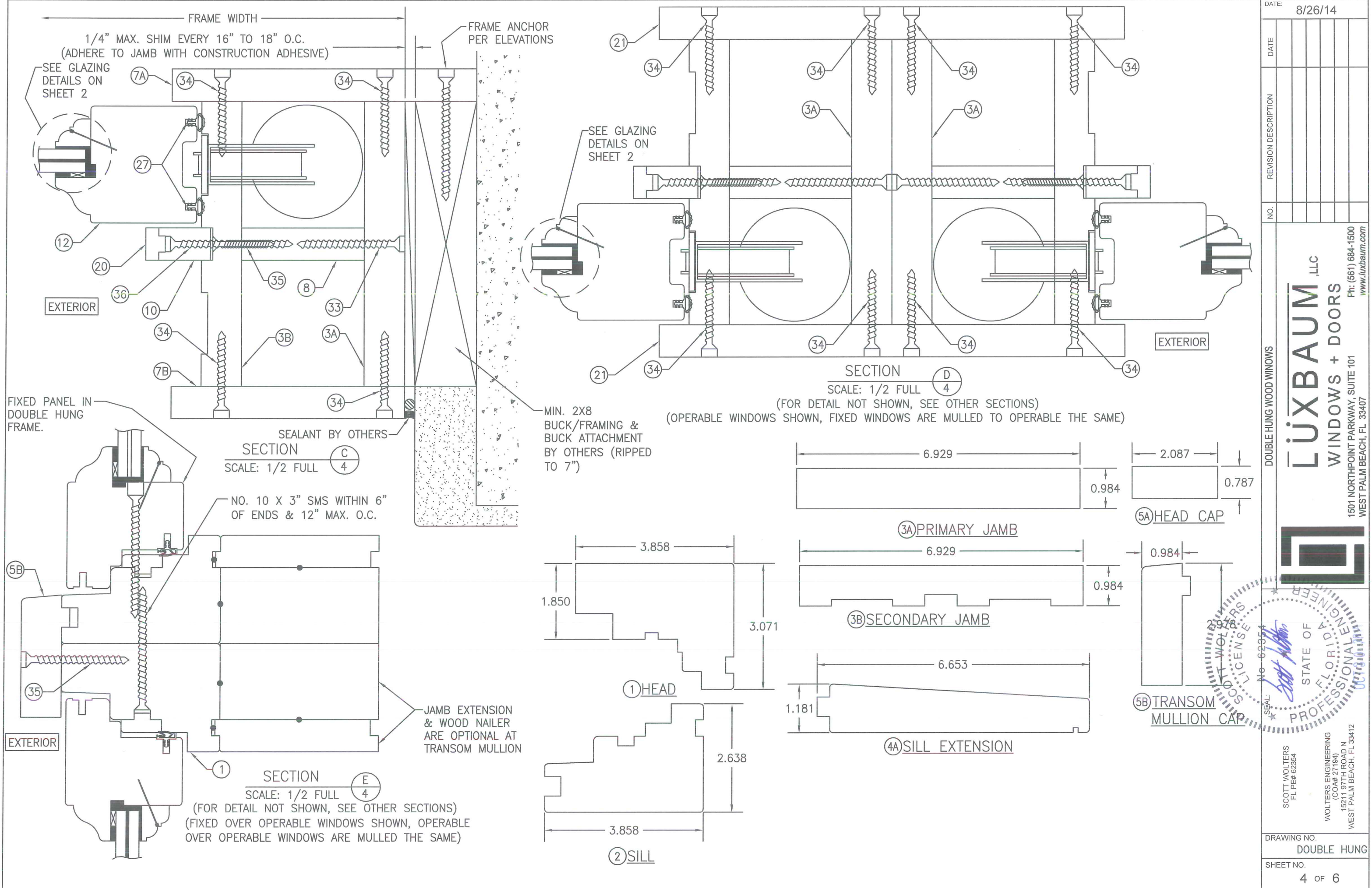
WOLTERS ENGINEERING
(CO.# 27184)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

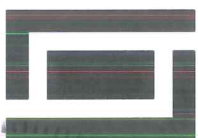
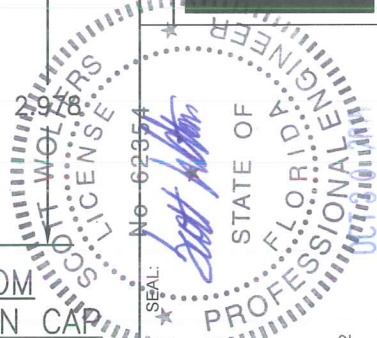
SCOTT WOLTERS
FL PER# 62354

STATE OF FLORIDA
PROFESSIONAL ENGINEER

DRAWING NO. DOUBLE HUNG

SHEET NO. 3 OF 6

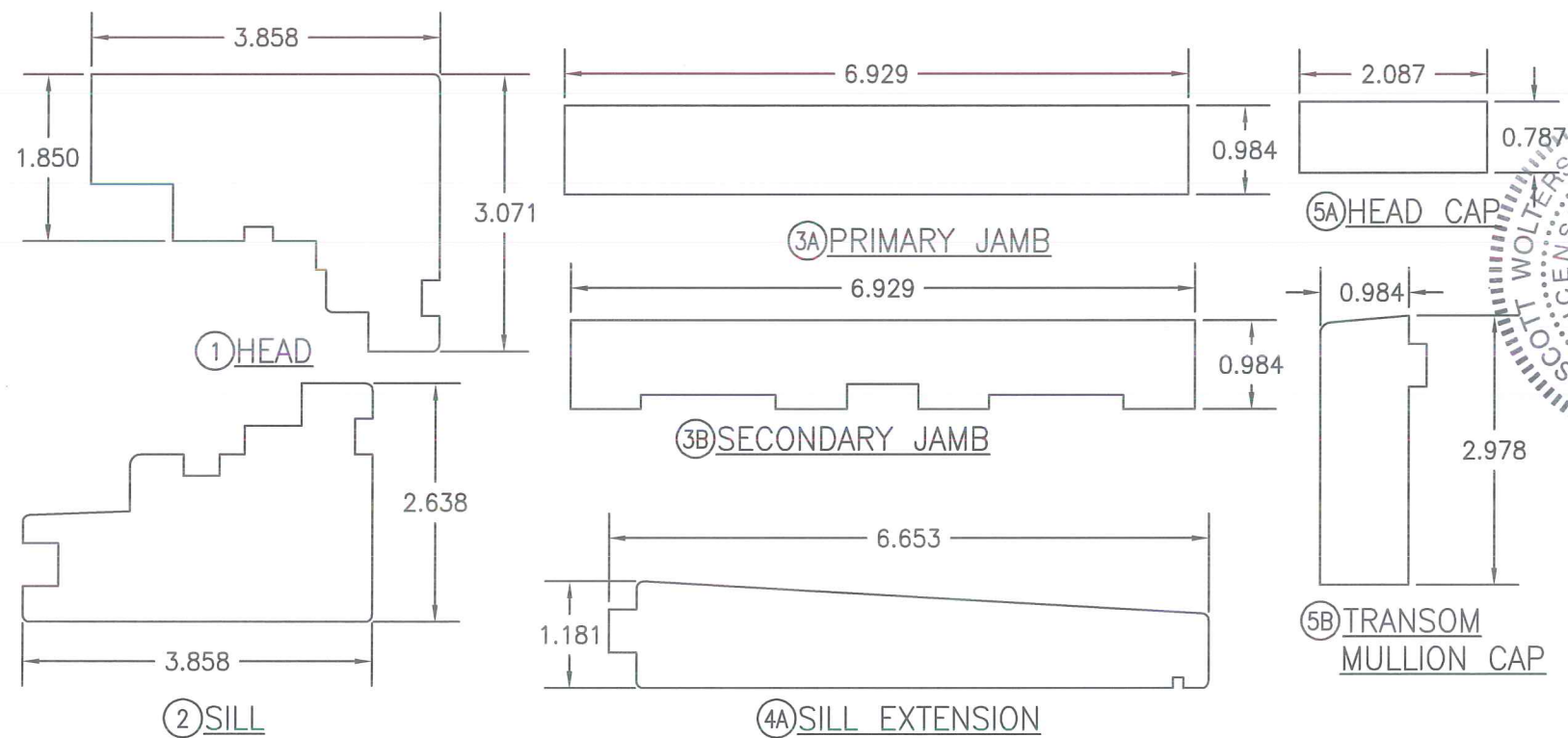


DATE: 8/26/14	
DATE	
REVISION DESCRIPTION	
NO.	
DOUBLE HUNG WOOD WINDOWS	
LUXBAUM ,LLC	
WINDOWS + DOORS	
1501 NORTHPOINT PARKWAY, SUITE 101 WEST PALM BEACH, FL 33407	
Ph: (561) 684-1500 www.luxbaum.com	
	
	
DRAWING NO. DOUBLE HUNG	
SHEET NO. 4 OF 6	

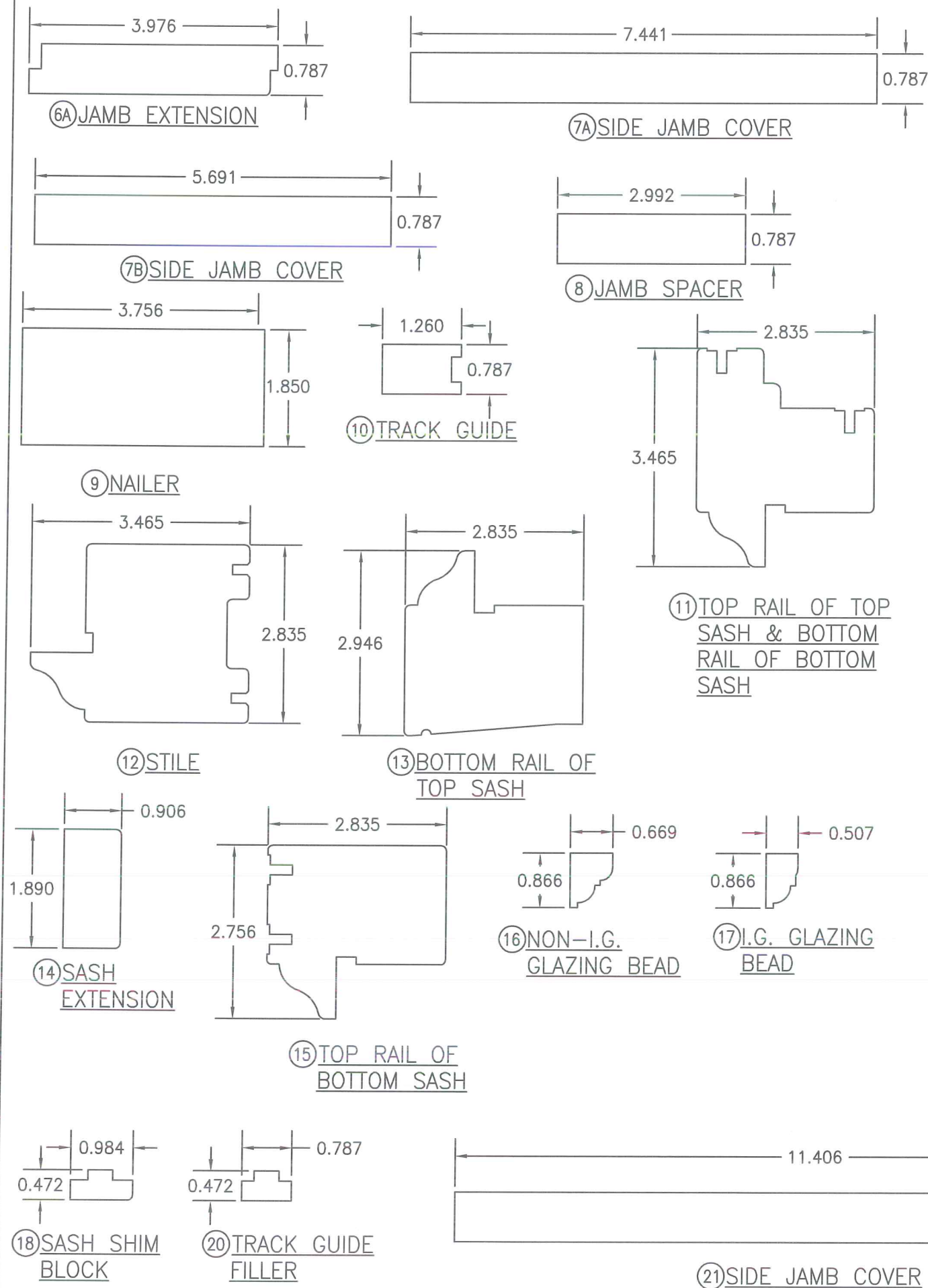
EXTERIOR

SECTION F
SCALE: 1/2 FULL

EXTERIOR



DRAWING NO. DOUBLE HUNG		DATE: 8/26/14	
SHEET NO.			
3 OF 6			



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES	DATE: 8/26/14
PARTS				
1	DH-(B)9867-L	HEAD	* WOOD	
2	DH-(A)9867-L	SILL	* WOOD	
3A	DH-(A)25176-A	PRIMARY JAMB	* WOOD	
3B	DH-(A)25176-A	SECONDARY JAMB	* WOOD	
4A	DH-30169-Q	SILL EXTENSION	* WOOD	
5A	DH-2053-F	HEAD CAP	* WOOD	
5B	DH-2053-F	TRANSOM MULLION CAP	* WOOD	
6A	DH-20101-B	JAMB EXTENSION	* WOOD	
7A	DH-20189-A	SIDE JAMB COVER	* WOOD	
7B	DH-20145-A	SIDE JAMB COVER	* WOOD	
8	DH-2076-M	JAMB SPACER	* WOOD	
9	-	NAILER	* WOOD	
10	DH-2032-M	TRACK GUIDE	* WOOD	
11	DH-A7288-C	TOP RAIL OF TOP SASH & BOTTOM RAIL OF BOTTOM SASH	* WOOD	
12	DH-B7288-V	STILE	* WOOD	
13	DH-7275-V	BOTTOM RAIL OF TOP SASH	* WOOD	
14	DH-2348-C	SASH EXTENSION	* WOOD	
15	DH-7270-C	TOP RAIL OF BOTTOM SASH	* WOOD	
16	DH-1722-M	NON-I.G. GLAZING BEAD	* WOOD	
17	DH-1322-M	I.G. GLAZING BEAD	* WOOD	
18	DH-1225-M	SASH SHIM BLOCK	* WOOD	
20	DH-1220-M	TRACK GUIDE FILLER	* WOOD	
21	DH-20290-A	SIDE JAMB COVER	* WOOD	
HARDWARE				
22	7114	SASH PULLEY (TYPE A)	BY: ARCHITECTURAL RESOURCE CENTER	
23	-9	SASH LOCK (TYPE A)	BY: ARCHITECTURAL RESOURCE CENTER	
24	-	SASH PULLEY (TYPE B)	BY: PHELPS COMPANY	
25	LK 395	SASH LOCK (TYPE B)	BY: PHELPS COMPANY	
SEALS AND SEALANTS				
26	-	COMPRESSION SEAL	BY: DEVENTER; DS 6577	
27	-	COMPRESSION SEAL	BY: DEVENTER; E 06A/07	
FASTENERS				
33	-	NO. 10 X 2 1/2" SMS	WITHIN 3" OF ENDS & 8" MAX. O.C.	
34	-	NO. 10 X 2 1/2" SMS	WITHIN 6" OF ENDS & 12" MAX. O.C.	
35	-	NO. 8 X 1 1/2" SMS	WITHIN 3" OF ENDS & 16" MAX. O.C.	
36	-	NO. 8 X 3" SMS	WITHIN 6" OF ENDS & 8" MAX. O.C.	
37	-	NO. 10 X 3 1/2" SMS	WITHIN 4" OF ENDS & 12" MAX. O.C.	
39	-	23 GA. X 1 1/4" BRAD NAIL	WITHIN 2" OF ENDS & 4" MAX. O.C.	
41	-	14 GA. FINISH NAILS (2 ROWS)	WITHIN 2" OF ENDS & 6" MAX. O.C.	
42	-	NO. 20 WOOD BISCUIT	WITHIN 4" OF ENDS & 12" MAX. O.C.	
* ALL WOOD USED WITH TESTED UNITS IS MIN. GRADE 2 MERBAU. ALTERNATE WOOD SPECIES TO MERBAU ARE MIN. GRADE 2 OAK, CHERRY, MAPLE, SOUTHERN PINE, CYPRUS, REDWOOD, FIR, HICKORY, BIRCH & DOUGLAS FIR				
NOTE: ALL WOOD IS RECEIVED BY LUXBAU, L.L.C. AS GRADE 2, BUT IS MACHINED BY LUXBAU, L.L.C. TO A SELECT GRADE USE.				