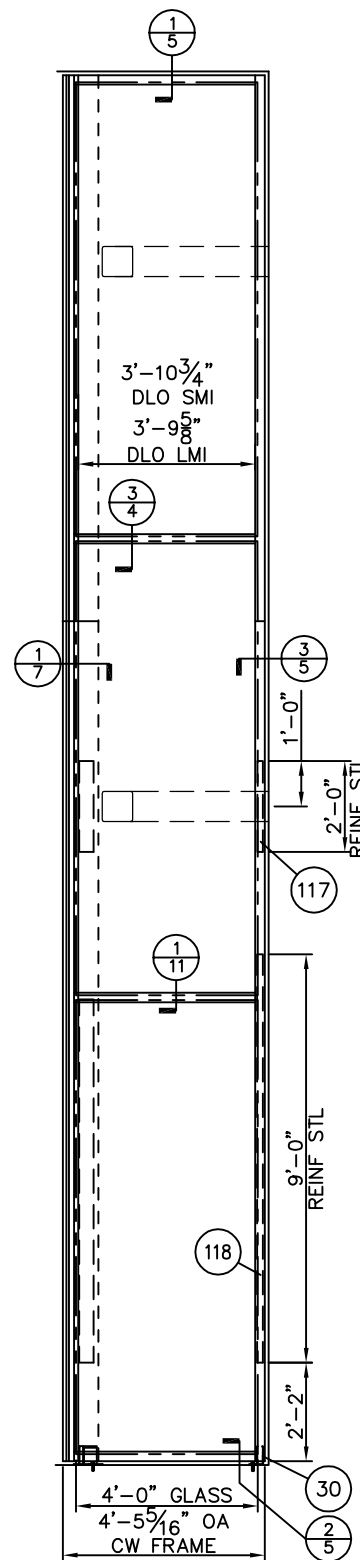


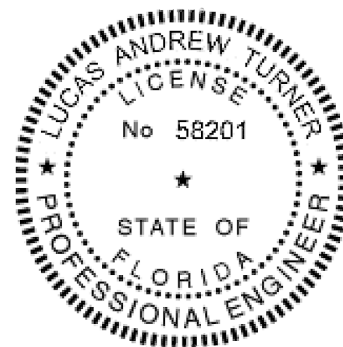


TABLE A. ELEV. E1/1 INFORMATION			
DESIGN PRESSURE	+70/-70 PSF	DESIGN PRESSURE	+78/-71 PSF
GLAZING TYPE	1 OR 2	GLAZING TYPE	4
MISSILE RATING	LARGE MISSILE	MISSILE RATING	SMALL MISSILE



1. THIS CURTAIN WALL SYSTEM HAS BEEN TESTED TO TAS 201/202/203, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. THE INSTALLED CURTAIN WALL SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED IN ACCORDANCE WITH THIS DRAWING AS WELL AS THE APPLICABLE TEST REPORTS. A FLORIDA LICENSED ENGINEER FAMILIAR WITH CURTAIN WALL DESIGN SHALL APPROVE SHOP DRAWINGS FOR EACH PROJECT, AND THIS ENGINEER OF RECORD SHALL TAKE FULL RESPONSIBILITY FOR THE INSTALLED SYSTEM DESIGN AS A WHOLE WHILE MAKING SURE THAT THE LIMITATIONS INDICATED IN THIS DRAWING HAVE NOT BEEN EXCEEDED.
3. THIS DRAWING INDICATES VARIOUS APPROVED GLAZING METHODS AND FRAMING TYPES WHICH MAY BE USED SINGLY OR IN COMBINATION FOR EACH PROJECT. ANY NUMBER OF PANELS MAY BE USED HORIZONTALLY PROVIDED THE MAXIMUM DLO SIZES AS INDICATED IN THIS DRAWING ARE NOT EXCEEDED.
4. THIS PRODUCT IS IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF SHUTTERS IN WINDBORNE DEBRIS AREAS. AS INDICATED IN TABLE F, SHEET 2, GLASS TYPES 1 AND 2 ARE LARGE MISSILE IMPACT RESISTANT AND GLASS TYPE 3 IS SMALL MISSILE IMPACT RESISTANT.
5. REQUIRED DESIGN PRESSURES SHALL BE DETERMINED FOR EACH PROJECT IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND GOVERNING WIND SPEEDS FOR THE PROJECT LOCATION.
6. THE ALLOWABLE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300-04 GLASS TABLES, TESTING, AND CALCULATIONS.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SUBSTRATES OR ALUMINUM, SHALL BE COATED OR OTHERWISE PROTECTED PER FBC REQUIREMENTS TO PREVENT CORROSION OR GALVANIC REACTIONS.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT ARE NOT WITHIN THE SCOPE OF THIS APPROVAL AND SHALL BE THE RESPONSIBILITY OF OTHERS.
9. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE.
10. STRUCTURAL INTEGRITY OF SUBSTRATE MATERIALS TO RECEIVE THE LOADS FROM THIS PRODUCT, TO BE VERIFIED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
11. THIS PRODUCT SHALL BE INSTALLED USING ONE OF THE APPROVED FASTENING OR WELDING METHODS INDICATED IN THIS DRAWING, AS APPROPRIATE FOR THE SUBSTRATE TYPE. WELD SIZES AND LOCATIONS FOR INTERMEDIATE ANCHORS SHALL BE AS INDICATED IN THE DETAILS FOR EACH CLIP TYPE, AND FOR U, F, AND T-ANCHORS THE ANCHOR SIZE, EMBEDMENT, EDGE DISTANCE, AND PATTERN WITHIN THE CLIP SHALL BE IN ACCORDANCE WITH TABLE E, SHEET 2, AND APPLICABLE DETAILS.
12. MINIMUM ANCHOR EMBEDMENTS LISTED IN THIS DRAWING SHALL BE BEYOND WALL DRESSING OR STUCCO AND FULLY INTO SUBSTRATE.
13. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE E, SHEET 2. CONCRETE SUBSTRATES SHALL NOT BE CRACKED.

<u>TABLE OF CONTENTS:</u>	
<u>SHTS</u>	<u>CONTENT</u>
1	NOTES, TWIN-SPAN ELEVATION
2	SINGLE-SPAN ELEV., GLAZING, ANCHORS
3-7	SECTION DETAILS
8	SPLICE JOINT
9-10	ANCHOR DETAILS
11-12	ASSEMBLY DETAILS
13	PART DRAWINGS
14	PART DWGS, BILL OF MATERIALS



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**TUBELITE
CW 400 CAPTURED IMPACT
CURTAIN WALL SYSTEM**

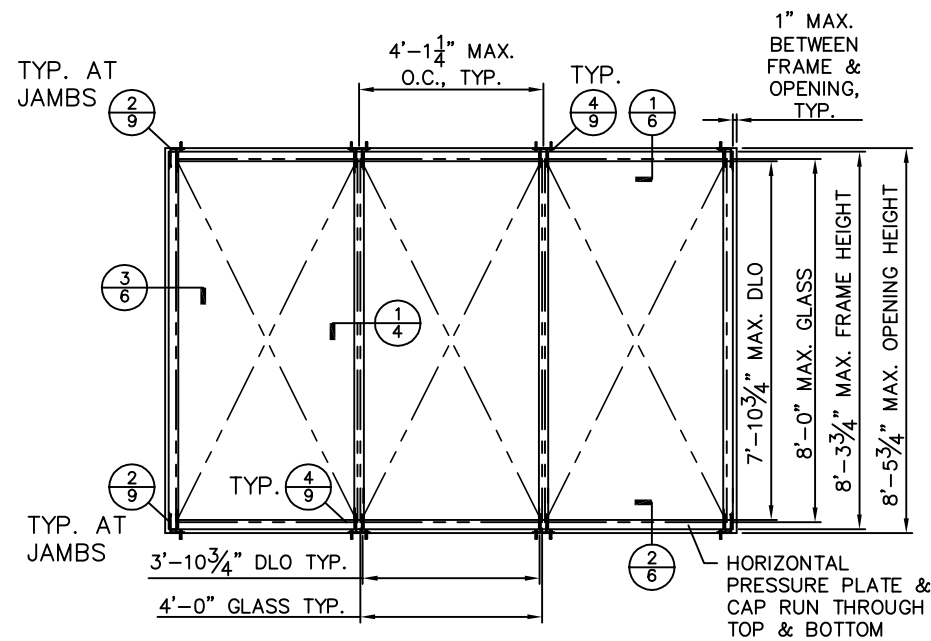
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PH: 800.866.2227
FX: 616.301.0008
WEB SITE: WWW.TUBELITEINC.COM

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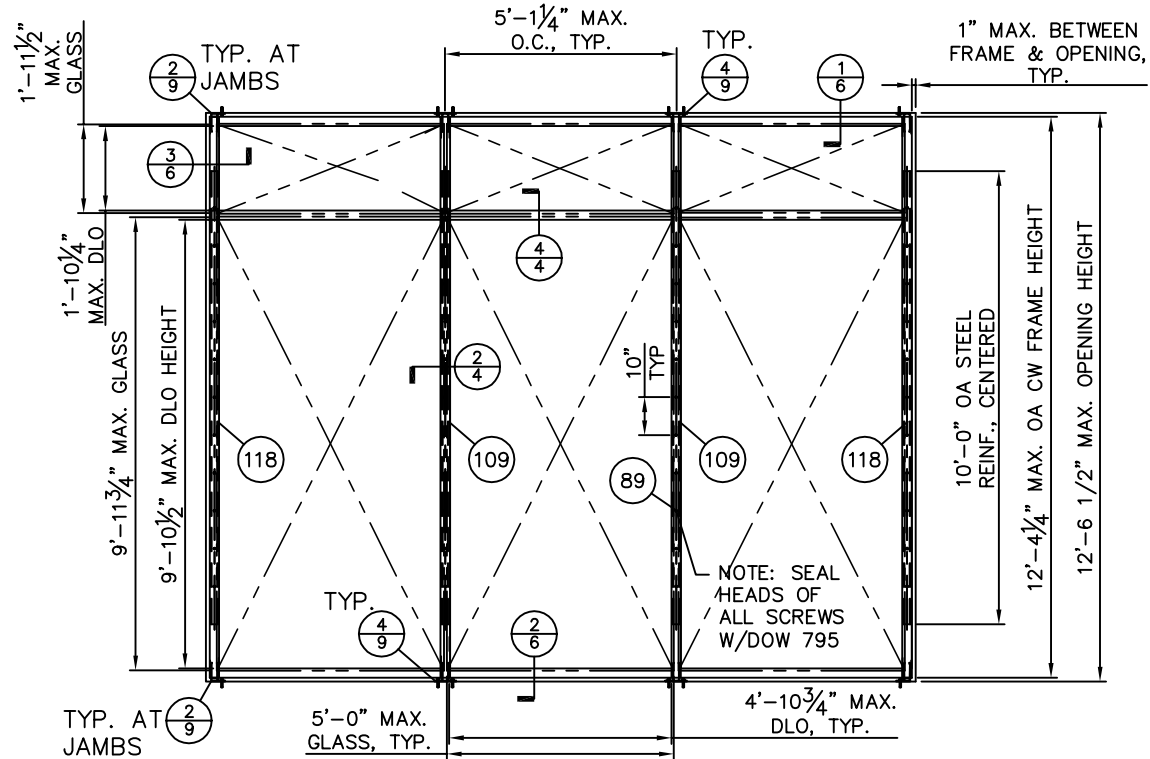
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A	2.24.15	L.T	ANCHOR REVISIONS
B	8.27.15	L.T	ADDED LM TWIN

DATE:	05.07.14
DRAWING NUMBER:	FPA-400-CAP-IMP
DRAWN:	
FINAL REVIEW:	
SCALE:	N.T.S.
REVISION:	B

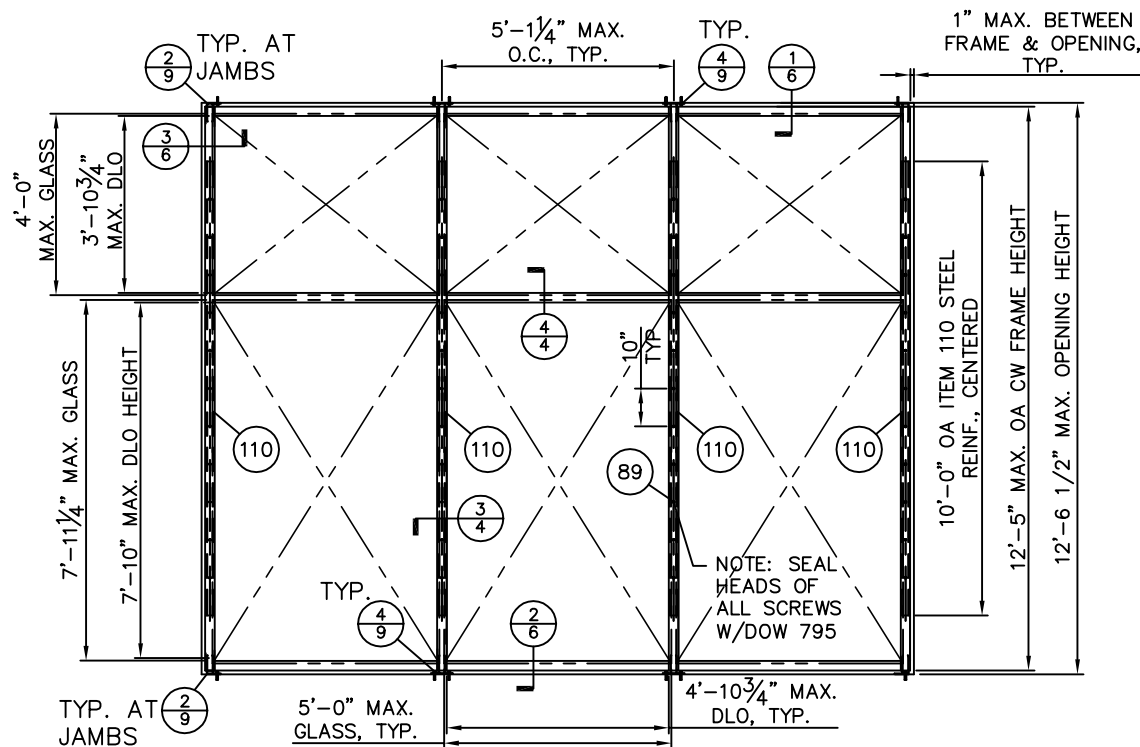
SHEET NAME:
NOTES,
ELEVATION



E2
2 SINGLE-SPAN ELEVATION
WET GLAZED, SEE TABLE B FOR LIMITS OF USE



E3
2 SINGLE-SPAN ELEVATION
WET GLAZED, SEE TABLE C FOR LIMITS OF USE



E4
2 SINGLE-SPAN ELEVATION
DRY GLAZED, SEE TABLE D FOR LIMITS OF USE

TABLE E. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	3/8" HILTI KWIK BOLT 3 CARBON OR STAINLESS STEEL, MAY BE USED ALL LOCATIONS EXCEPT DET. 1/9	2 1/2"	3"
B	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/2" HILTI KWIK BOLT 3 CARBON OR STAINLESS STEEL, MAY BE USED ALL LOCATIONS, REQUIRED AT DETAIL 1/9 FOR CONCRETE INSTALL	2 1/4"	4 3/4"
C	SOUTHERN PINE WOOD (G=0.55 MIN)	1/2" GRADE 5 LAG SCREW	3"	2"
D	1/4" ALUM. 6063-T5 MIN. OR 1/4" STEEL 36 KSI MIN.	3/8-16 GRADE 5 SHEET METAL SCREW	SEE NOTE	3/4"

NOTE: ANCHORS THROUGH METAL SHALL BE OF SUFFICIENT LENGTH TO PROVIDE THREAD ENGAGEMENT THROUGH THE FULL METAL THICKNESS

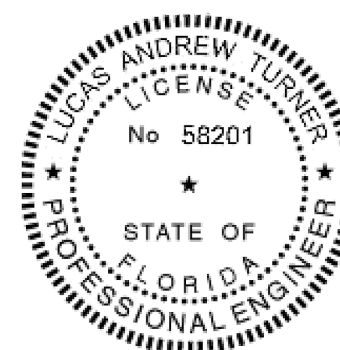
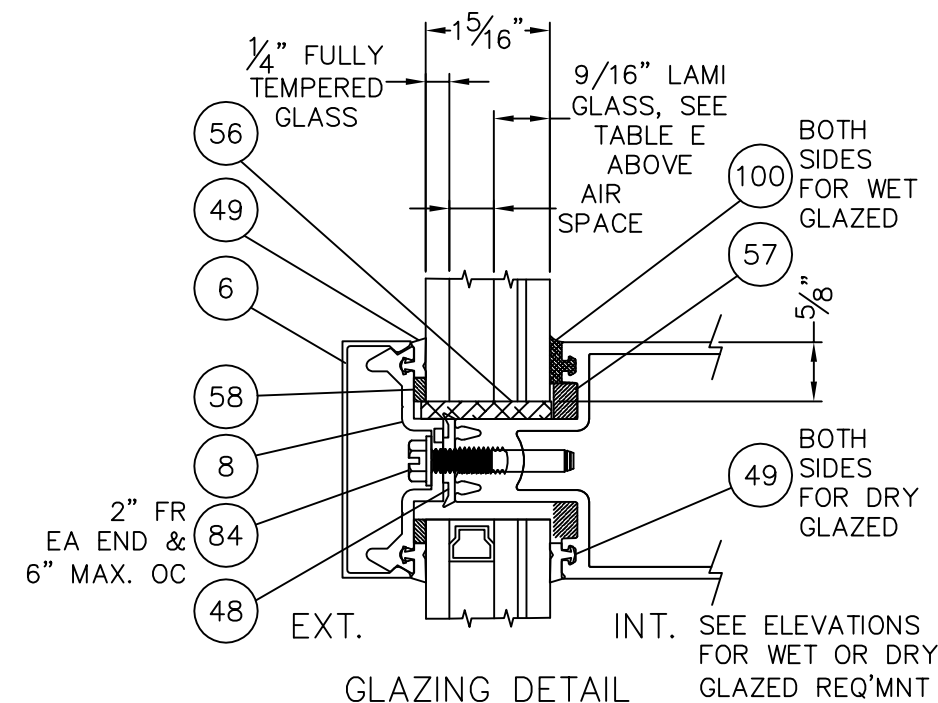
TABLE B. ELEV. E2/2 INFORMATION	
DESIGN PRESSURE	+/-65 PSF
GLAZING TYPE	3
MISSILE RATING	LARGE MISSILE

TABLE C. ELEV. E3/2 INFORMATION	
DESIGN PRESSURE	+/-90 PSF
GLAZING TYPE	1
MISSILE RATING	LARGE MISSILE

TABLE D. ELEV. E4/2 INFORMATION	
DESIGN PRESSURE	+/-70 PSF
GLAZING TYPE	1
MISSILE RATING	LARGE MISSILE

TABLE F. QUALIFIED GLAZING TYPES

TYPE	DESCRIPTION
ALL	1 5/16" THK. INSULATED LAMI. GLASS CONSISTING OF: -1/4" CLEAR, TEMPERED -1/2" AIRSPACE -1/4" CLEAR, HEAT STRENGTHENED -INTERLAYER AS SHOWN BELOW BY TYPE -1/4" CLEAR, HEAT STRENGTHENED
1	LARGE MISSILE INTERLAYER -0.090 KURARAY (DUPONT) SENTRY GLAS
2	LARGE MISSILE INTERLAYER -0.075 EASTMAN SAFLEX CP (VS02)
3	LARGE MISSILE INTERLAYER -0.090 KURARAY (DUPONT) BUTACITE PVB
4	SMALL MISSILE INTERLAYER -0.060 KURARAY (DUPONT) BUTACITE PVB



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0	5.7.14	ORIGINAL RELEASE	LT
A	2.24.15	ANCHOR REVISIONS	LT
B	8.27.15	ADDED LMTWIN	LT

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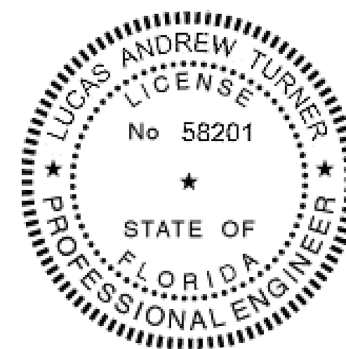
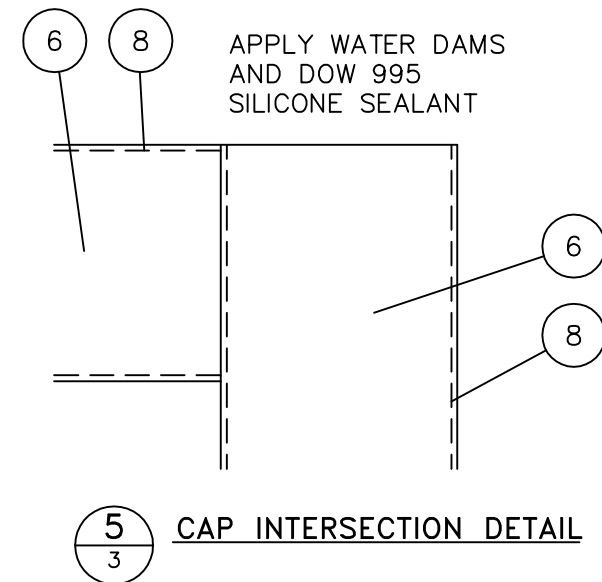
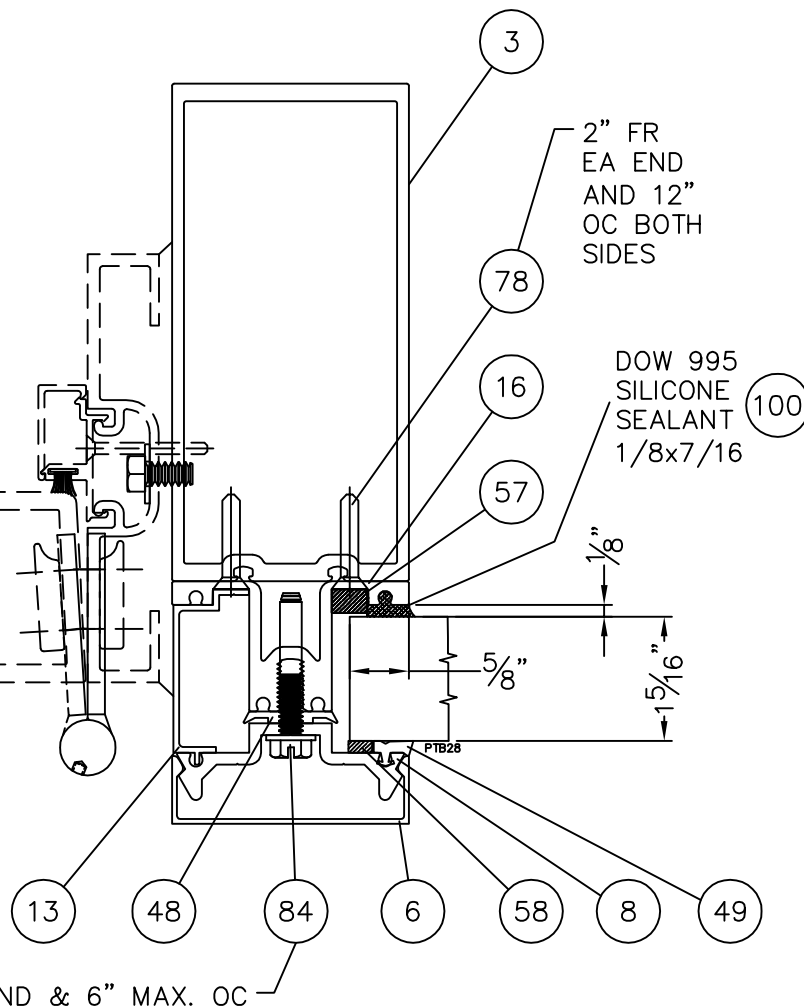
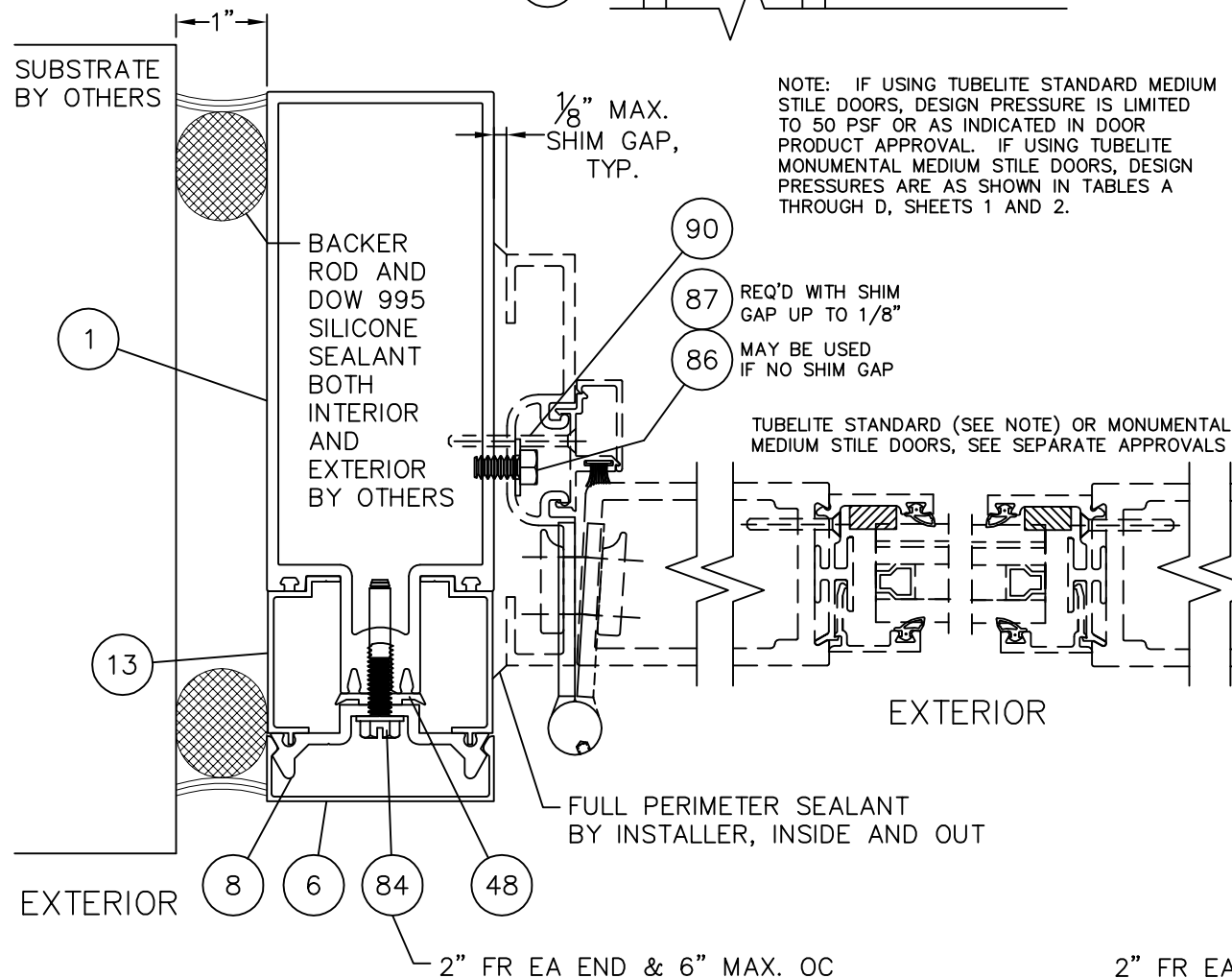
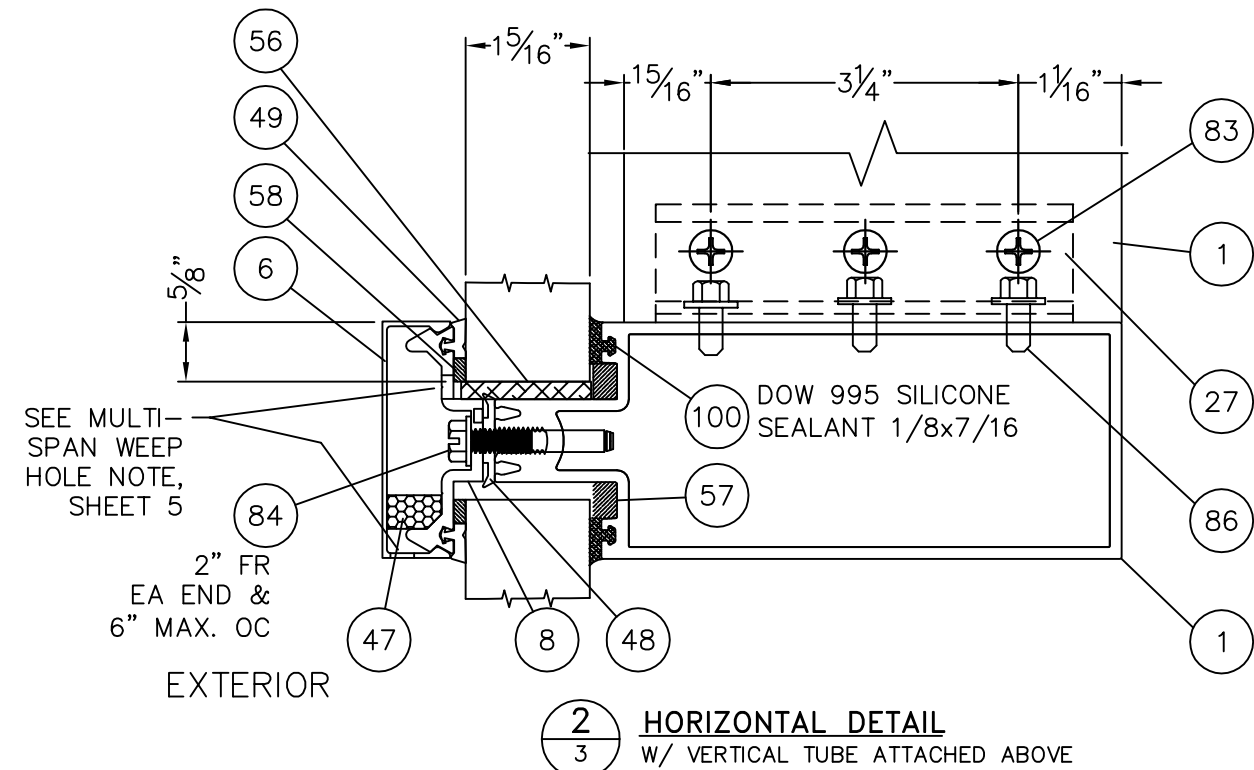
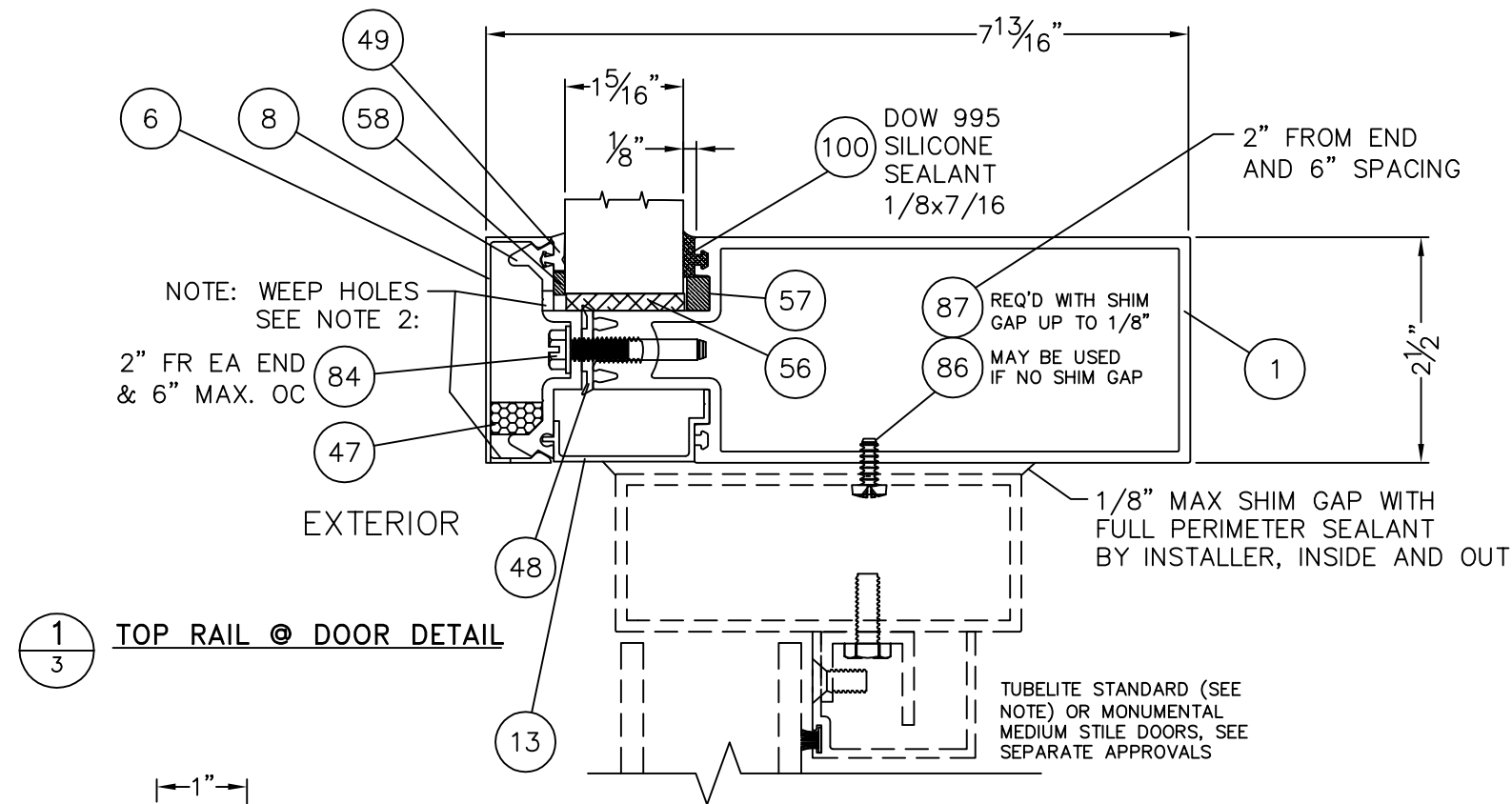
SCALE: N.T.S.

REVISION: B

SHEET NAME:

ELEVATIONS, ANCHORAGE, GLAZING

SHEET: 2 OF 14



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SHEET NAME:

DOOR SECTION DETAILS

SHEET: 3 OF 14

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DEPENDABLE
CLIENT STOREFRONT,

DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,

A circular professional engineer seal for the State of Florida. The outer ring contains the text "LUCAS ANDREW TURNER" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top, "No 58201" is in the center, and "STATE OF FLORIDA" is at the bottom, also separated by two stars. The seal has a serrated outer edge.

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REV	DATE	DRAWN	DESCRIPTION
Q	5.7.14	LT	ORIGINAL RELEASE
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EPA-100-CAB-IMP

FPA-400-CAP-IMP
DRAWN:

FINAL REVIEW:

FINAL REVIEW:	
DATE:	

SCALE: N.T.S

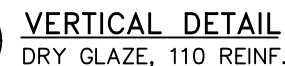
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SHEET NAME:

INTERMEDIATE
SECTION

SECTION DETAILS

SHEET: 4 OF 14



HORIZONTAL DETAIL
DRY GLAZED

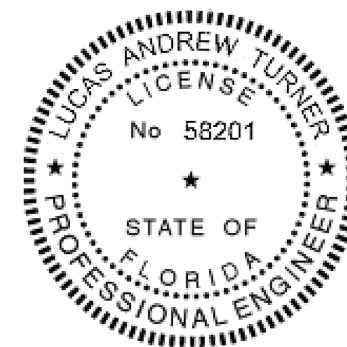
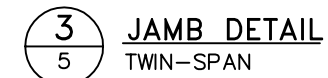
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SCALE:	N.T.S.
REVISION:	B
SHEET NAME:	TWIN-SPAN PERIMETER DETAILS
SHEET:	5 OF 14



$\frac{2}{5}$ SILL DETAIL
TWIN-SPAN



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11 A-400-CAT -IMM

DRAWN:

FINAL REVIEW:

FINAL REVIEW:

SCALE: N T O

N.I.S.

REVISION: D

D

SHEET NAME:

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

SINGLE-SPAN

PERIMETER

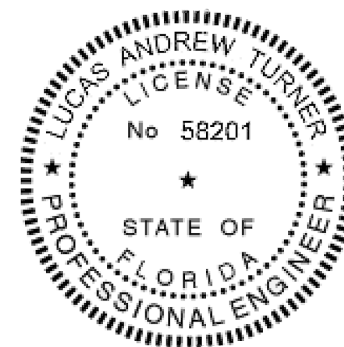
DETAILS

SHEET: 6 OF 14

6 OF 14



2
6 SILL DETAIL
SINGLE-SPAN



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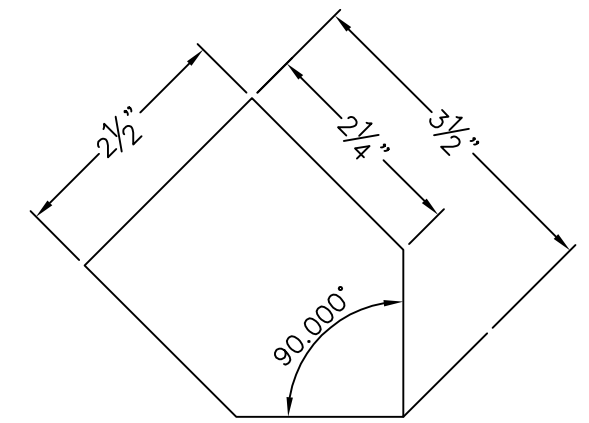
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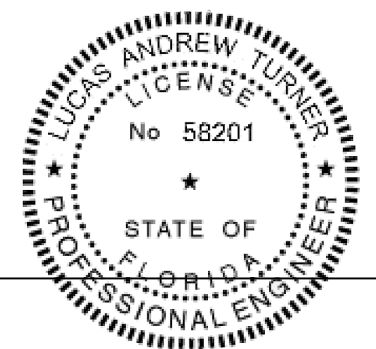
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CORNER
SECTION
DETAIL

SHEET: 7 OF 14

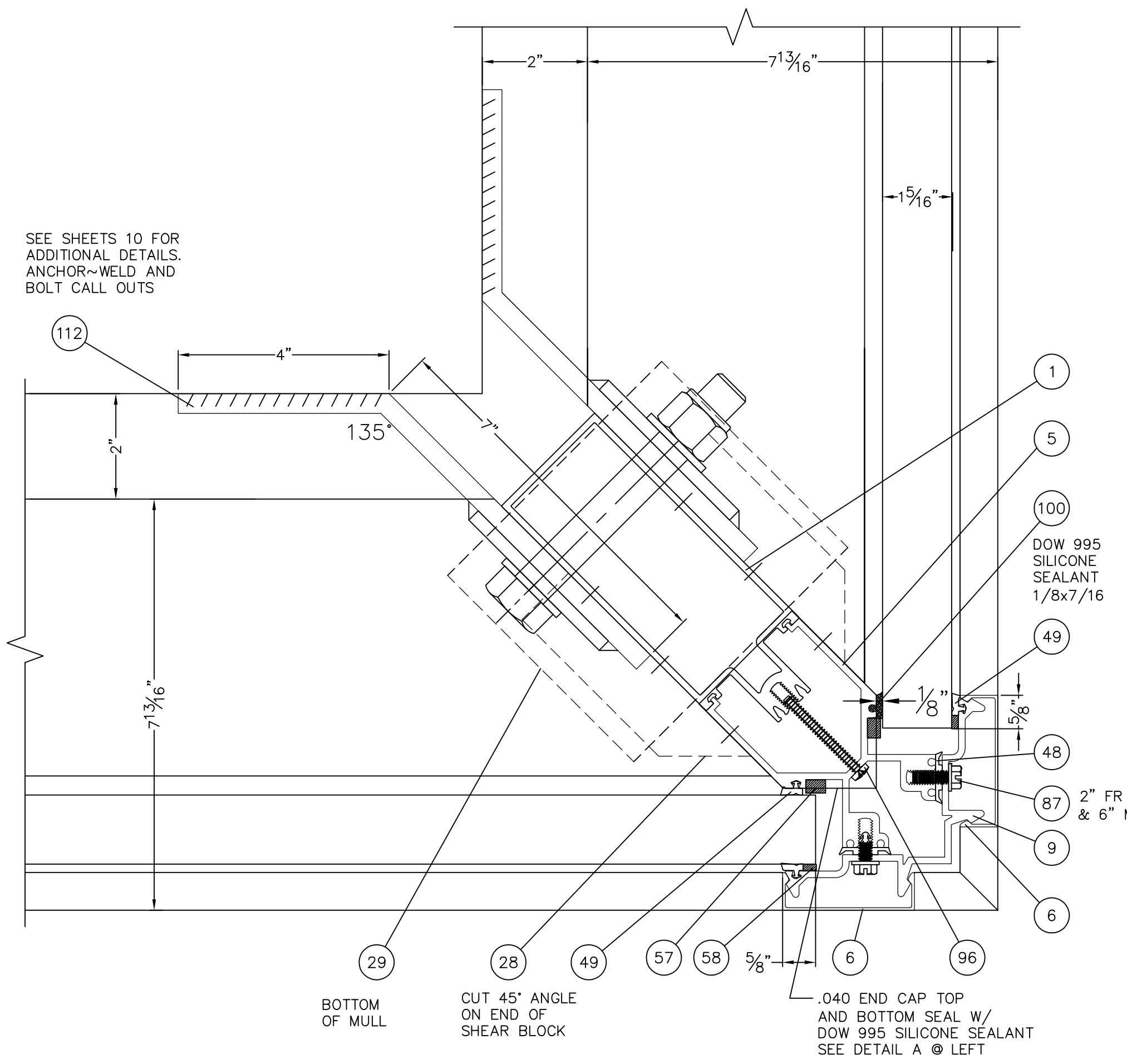


DETAIL A
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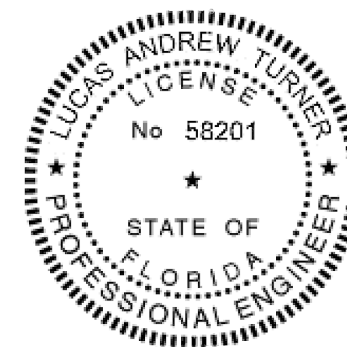
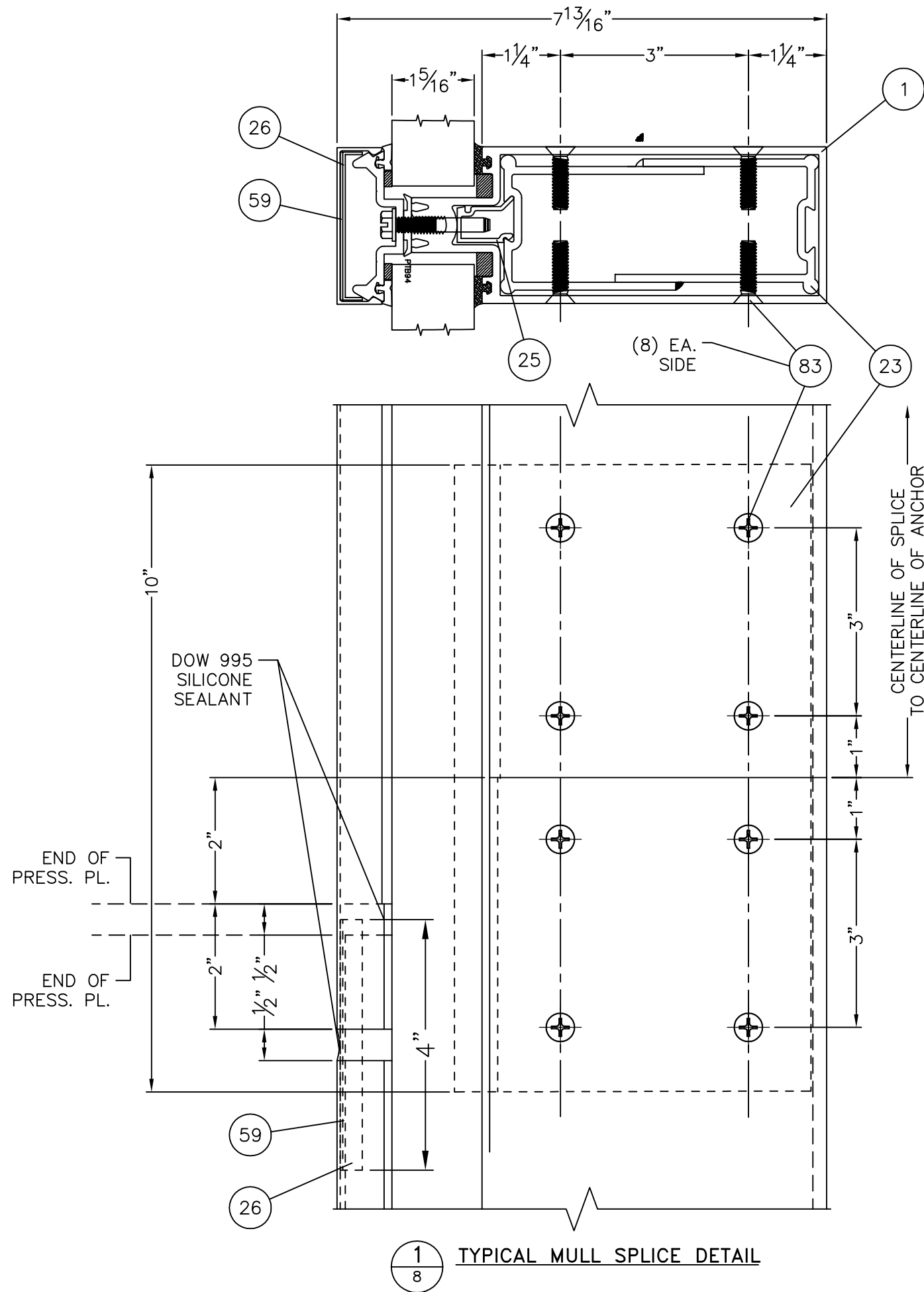


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EXTERIOR



1
7 STRUCTURAL GLAZED OUTSIDE CORNER DETAIL



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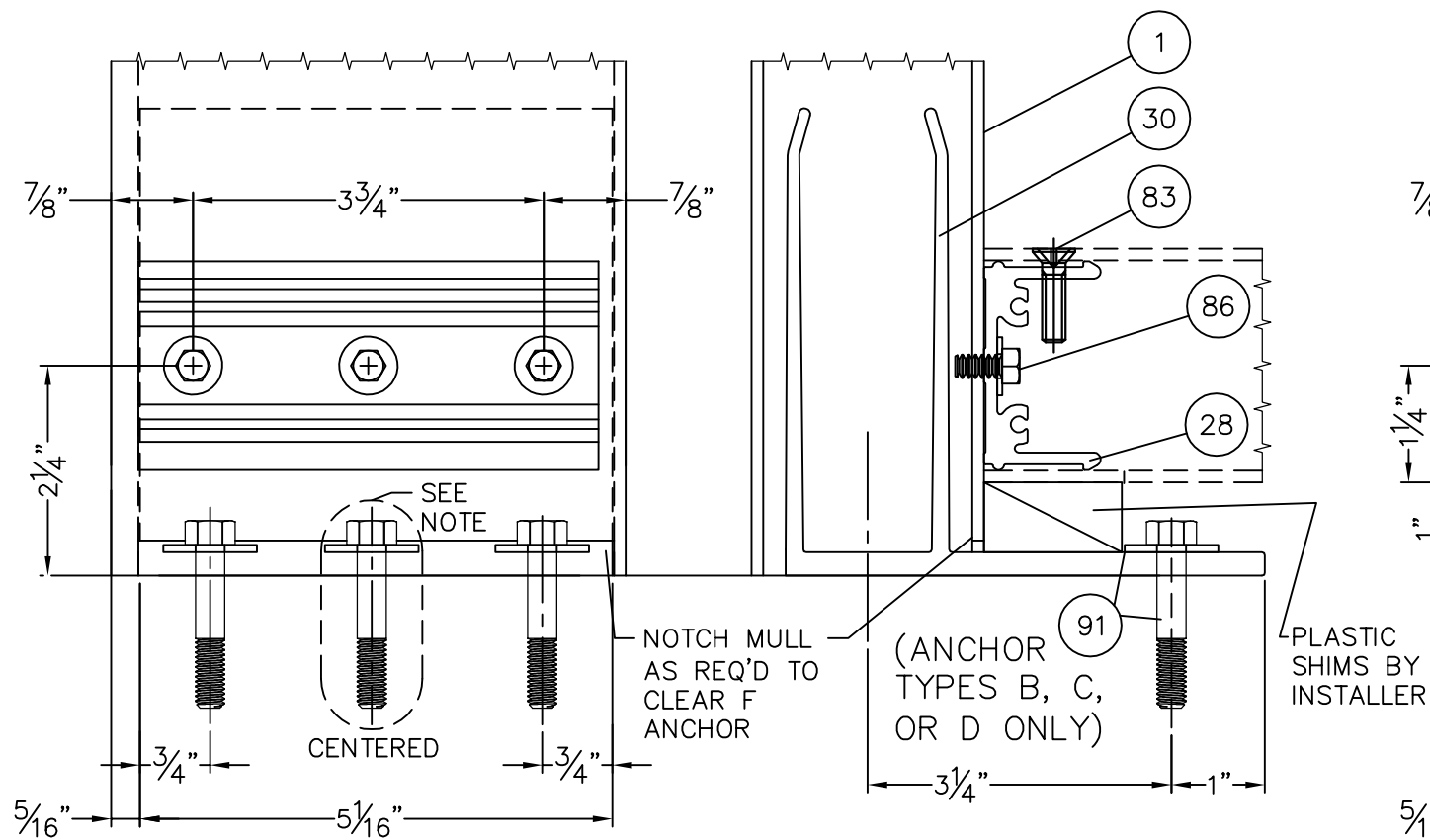
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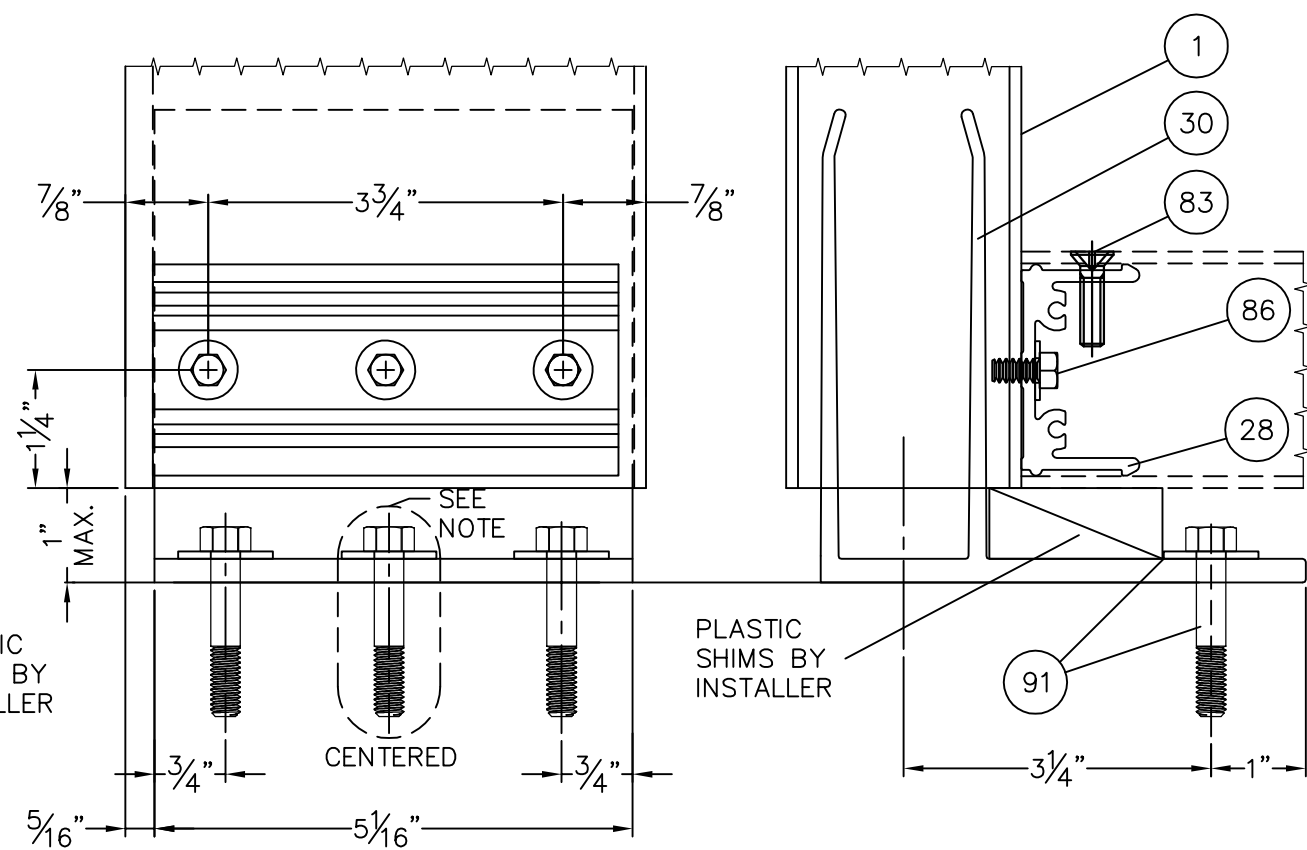
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 DETAILS

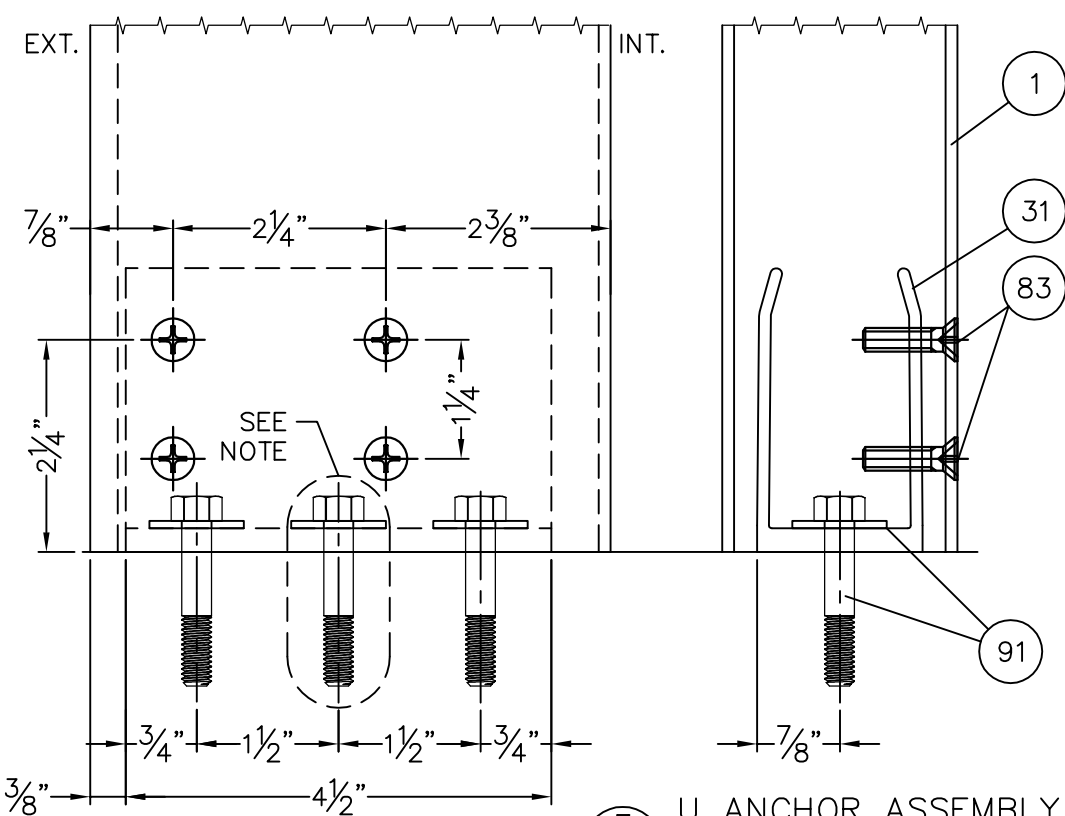
SHEET: 8 OF 14



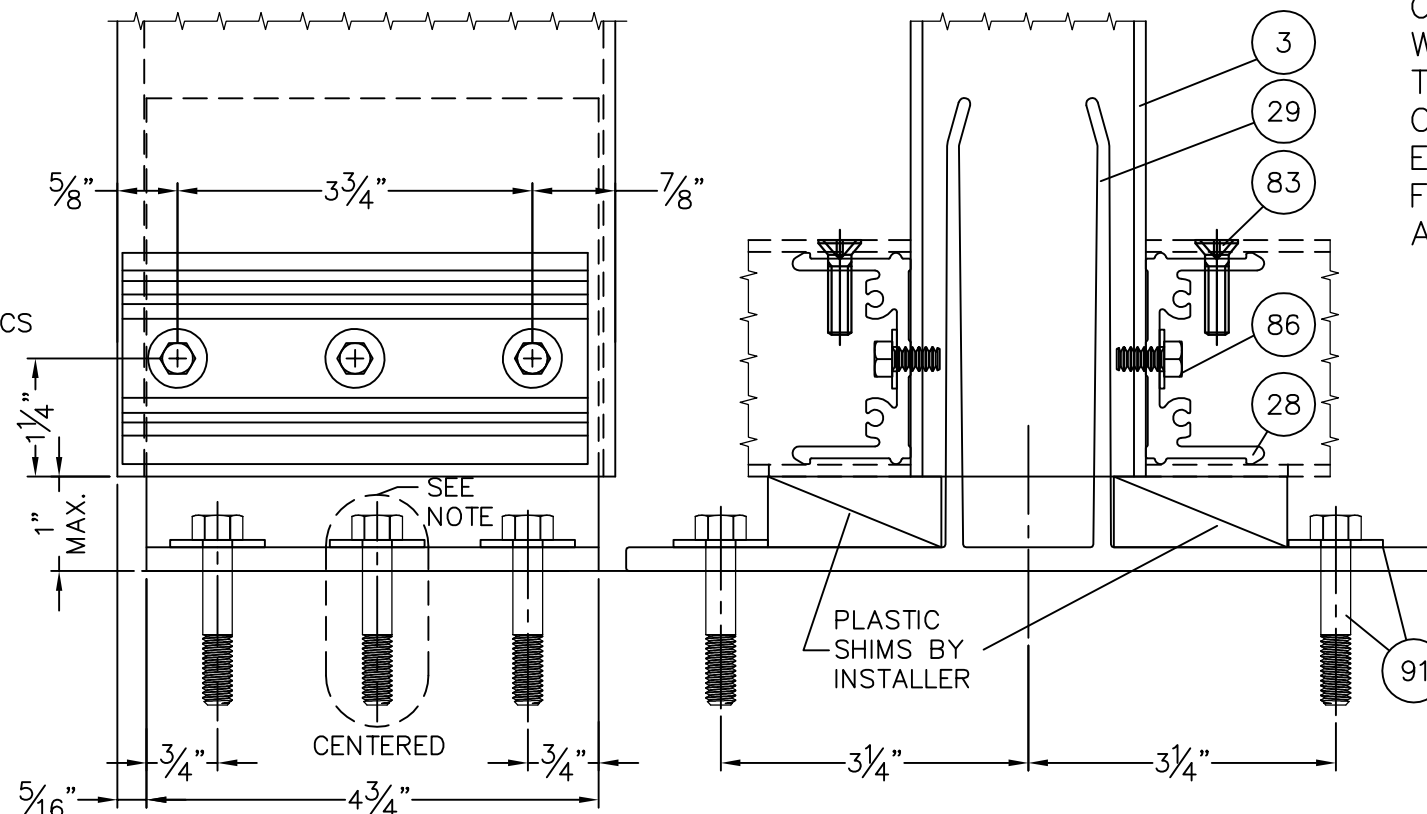
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9 F ANCHOR AND SHEAR BLOCK CLIP ASSEMBLY & INSTALLATION @ DOOR MULL SILL ONLY



2
9 F ANCHOR AND SHEAR BLOCK CLIP ASSEMBLY & INSTALLATION @ JAMB MULL (HEAD AND SILL SIMILAR)

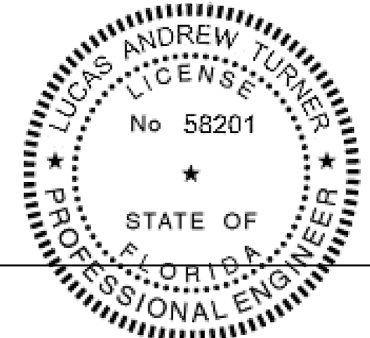


3
9 U ANCHOR ASSEMBLY & INSTALLATION @ DOOR JAMB ONLY



4
9 T ANCHOR AND SHEAR BLOCK CLIP ASSEMBLY & INSTALLATION @ TYP STRUCTURAL MULL (HEAD AND SILL SIM.)

NOTE: DO NOT INSTALL CIRCLED ANCHORS WHEN USING ANCHOR TYPES A OR B IN CONCRETE, SEE TABLE E, SHT 2. INSTALL FOR ANCHOR TYPES C AND D.



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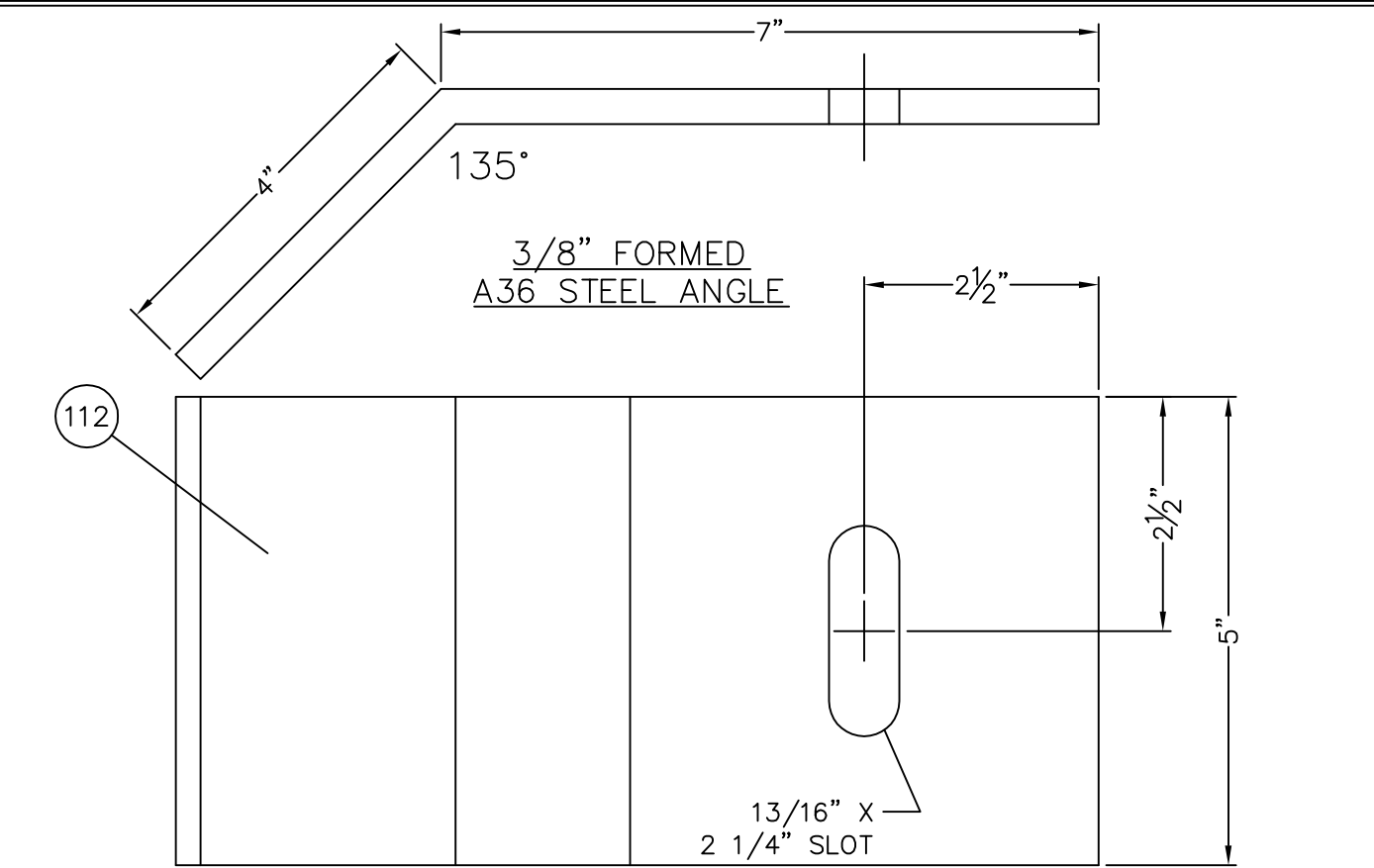
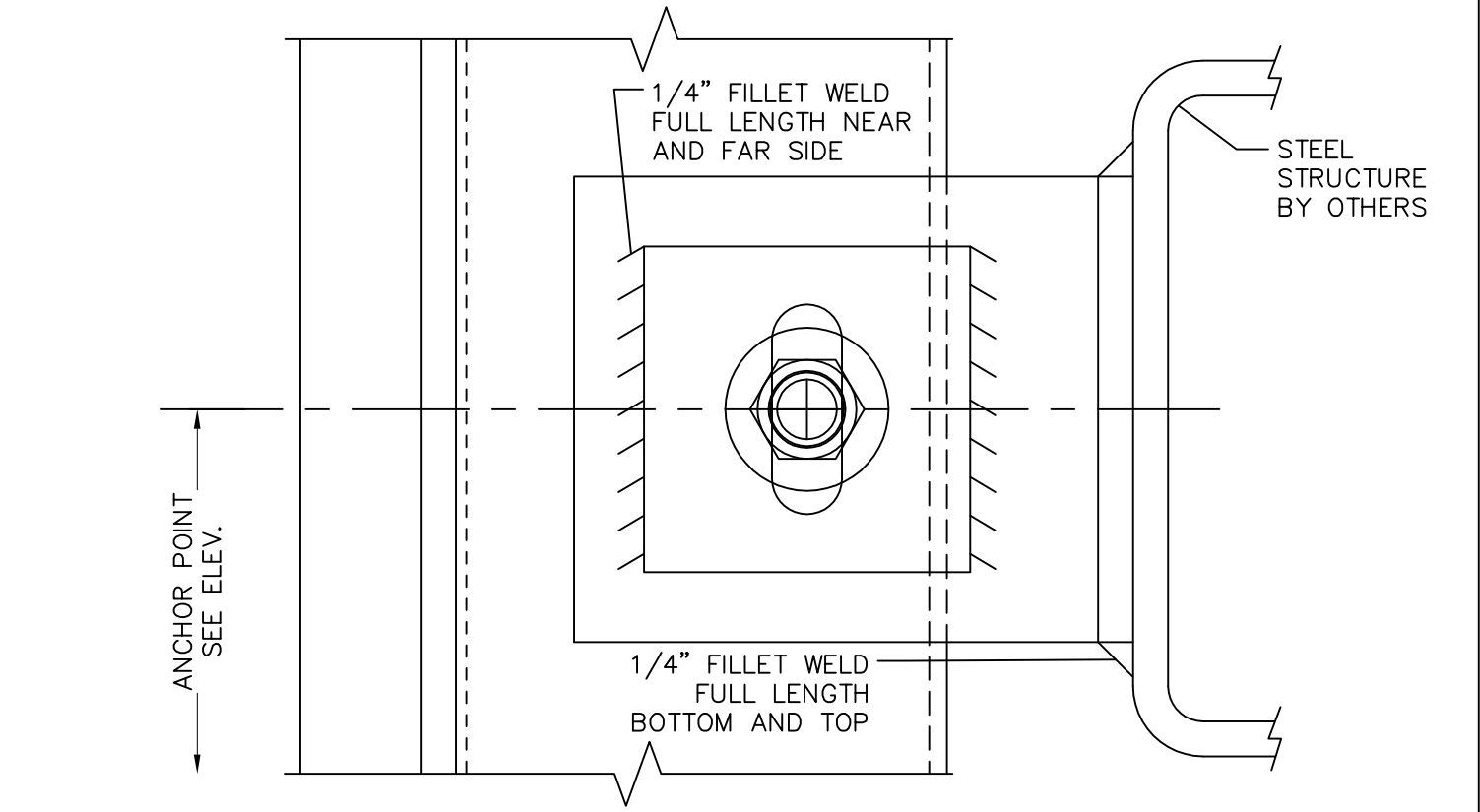
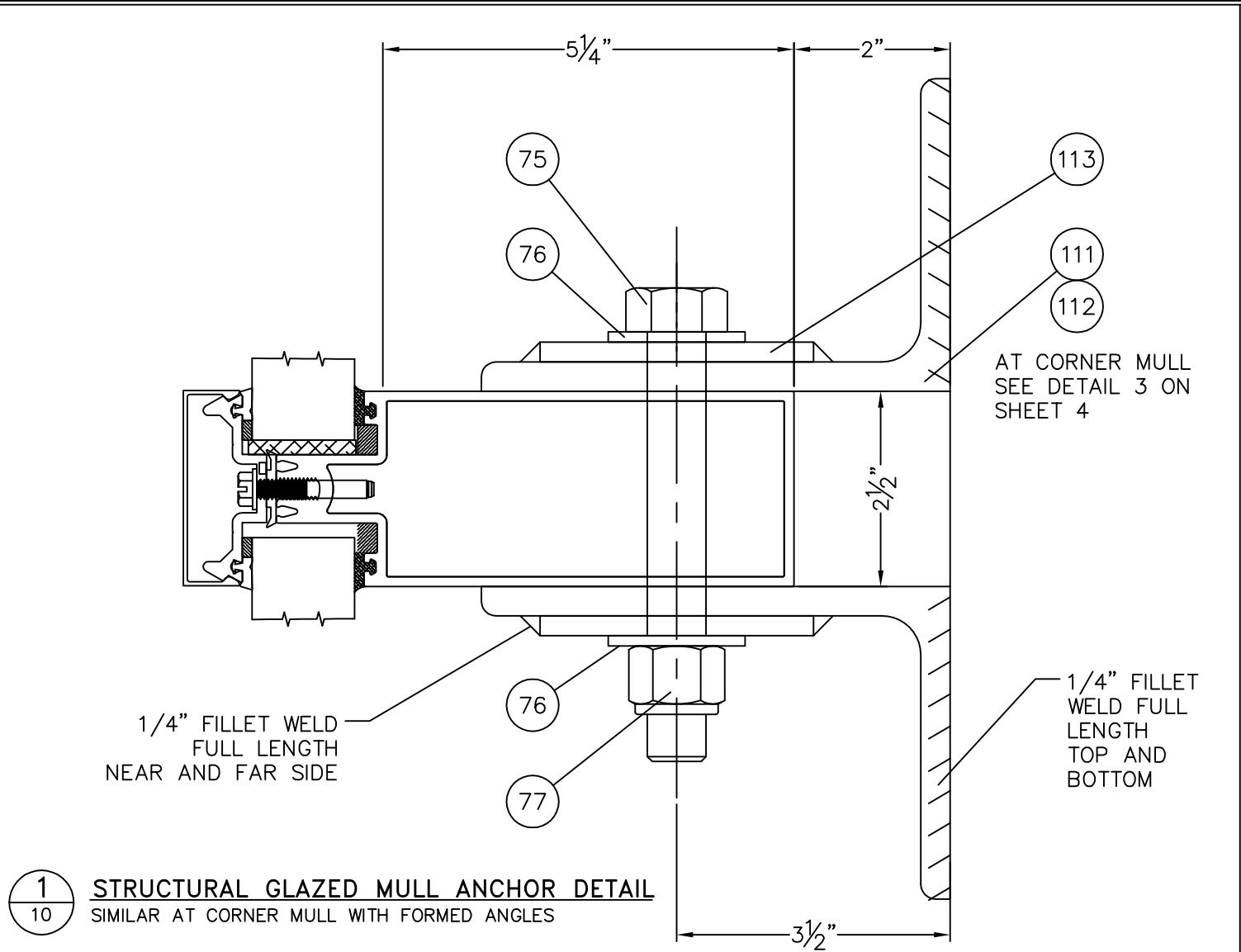
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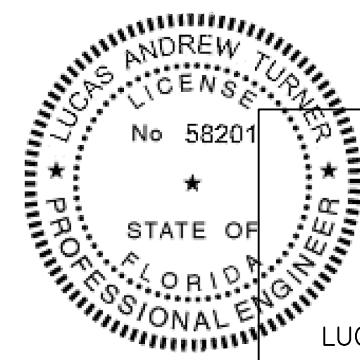
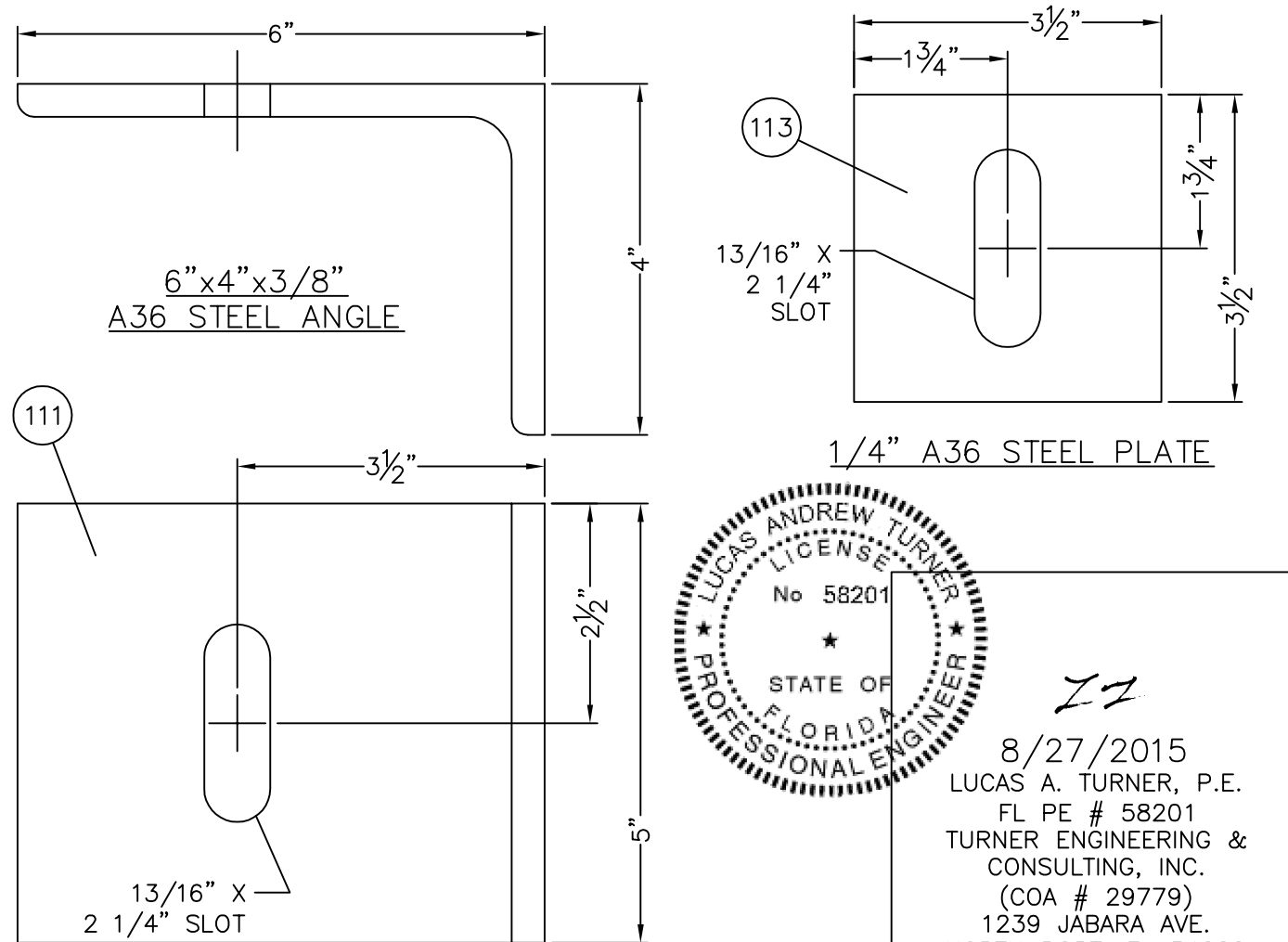
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SHEET: 9 OF 14



STEEL ANCHOR PARTS BY OTHERS



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B	8.27.15	ADDED L/TWIN	LT

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DRAWING NUMBER: FPA-400-CAP-IMP

DRAWN:

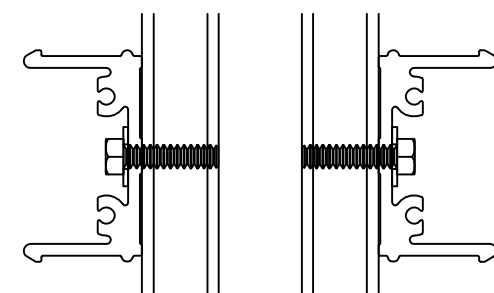
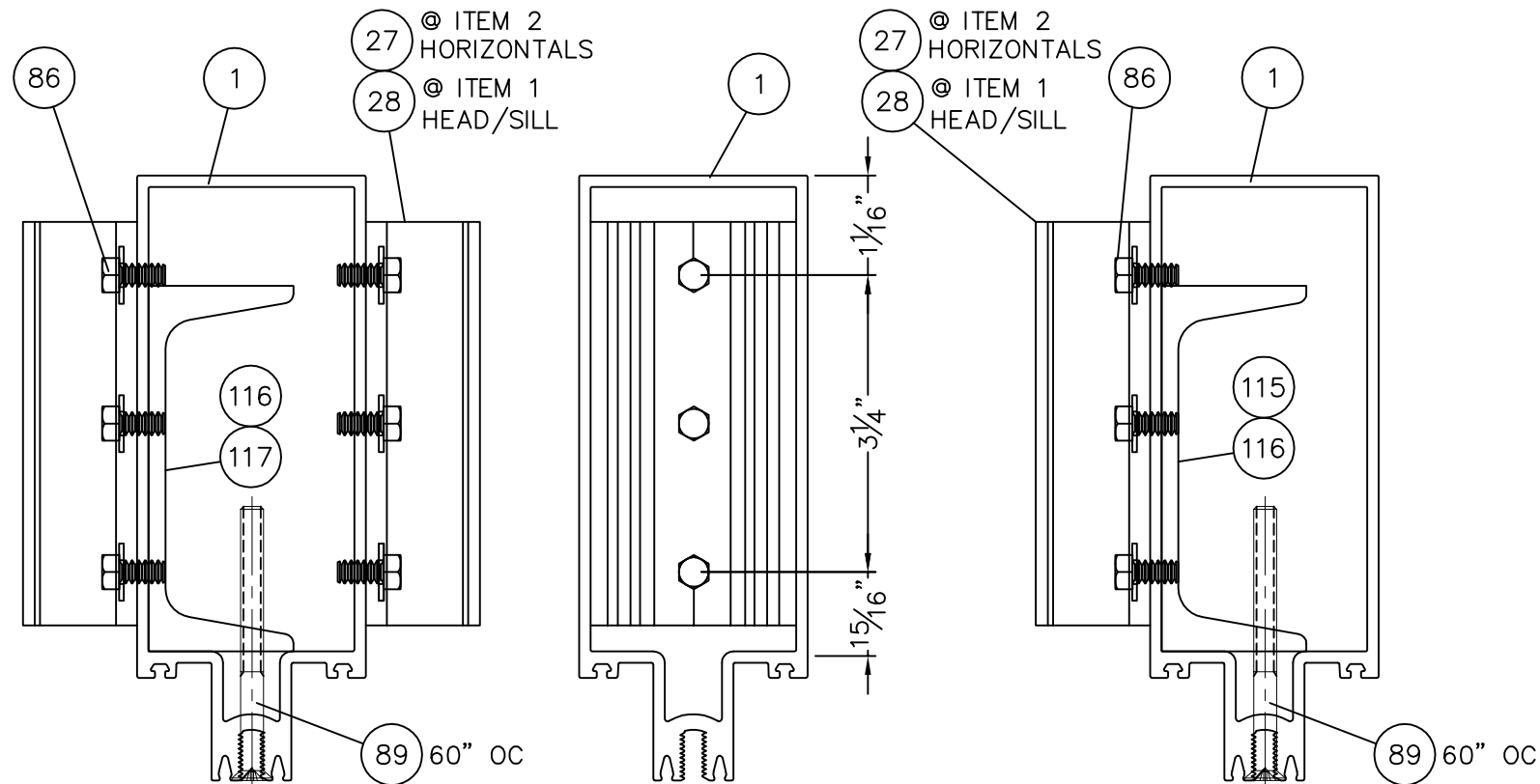
FINAL REVIEW:

SCALE: N.T.S.

REVISION: B

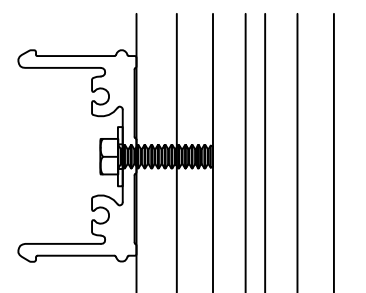
SHEET NAME: ANCHOR DETAILS

SHEET: 10 OF 14

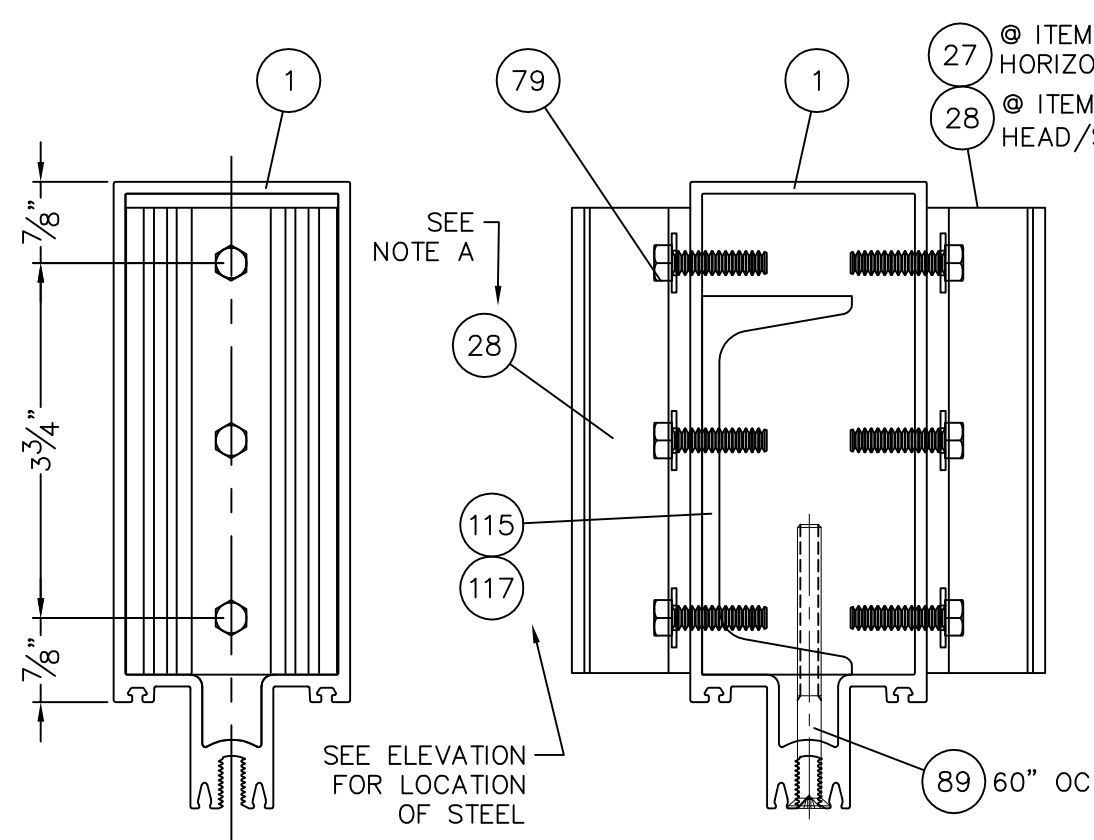


STEEL REINFORCEMENT
ATTACHMENT
@ STRUCTURAL GLAZED
HORIZONTAL SHEAR BLOCK

NOTE: SEE ELEVATIONS
FOR STEEL LOCATIONS

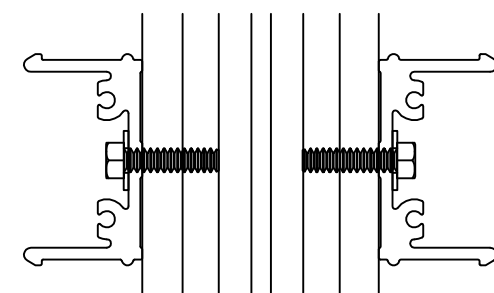


JAMB MULL

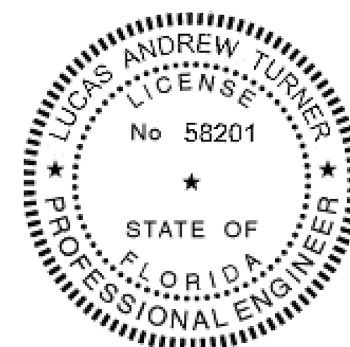


STEEL REINFORCEMENT
ATTACHMENT @ CAPTURED
HORIZONTAL SHEAR BLOCK

NOTE: SEE ELEVATIONS
FOR STEEL LOCATIONS



OUTSIDE CORNER MULL



LT
8/27/2015
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
1239 JABARA AVE.
NORTH PORT, FL 34288

TUBELITE
CW 400 CAPTURED IMPACT
CURTAIN WALL SYSTEM

3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544
PH: 800.866.2227
FX: 616.501.0005
WEB SITE: WWW.TUBELITEINC.COM

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

REVISION HISTORY:

REV	DATE	DESCRIPTION
O	5.7.14	ORIGINAL RELEASE
A	2.24.15	ANCHOR REVISIONS
B	8.27.15	ADDED LM TWIN

DATE: 05.07.14

DRAWING NUMBER:

FPA-400-CAP-IMP

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: B

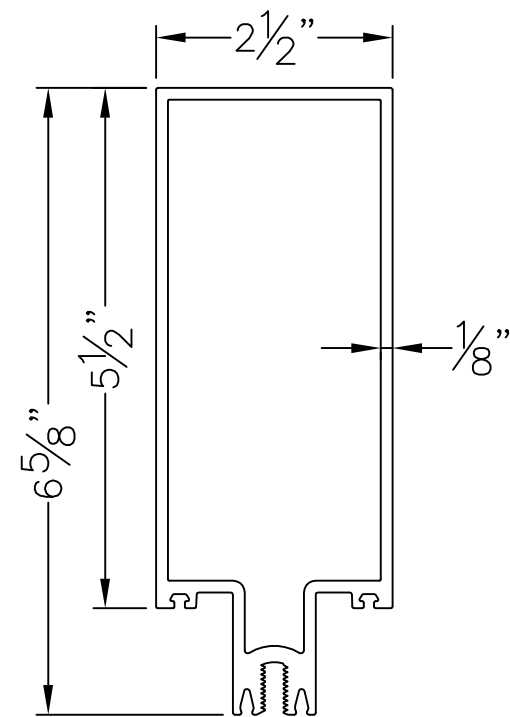
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ASSEMBLY

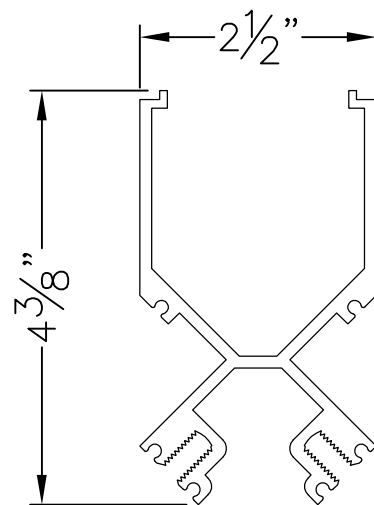
DETAILS

SHEET:

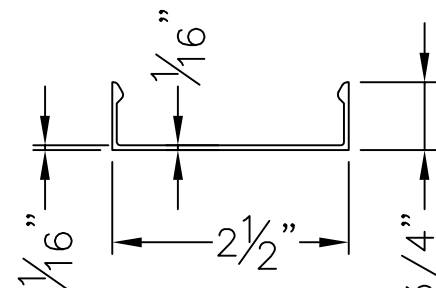
11 OF 14



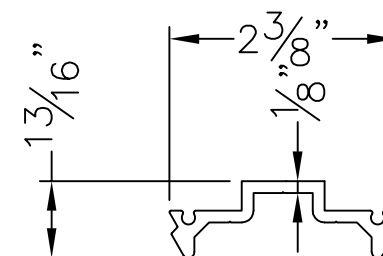
ITEM 1 - E55TB02FS
CURTAINWALL TUBE



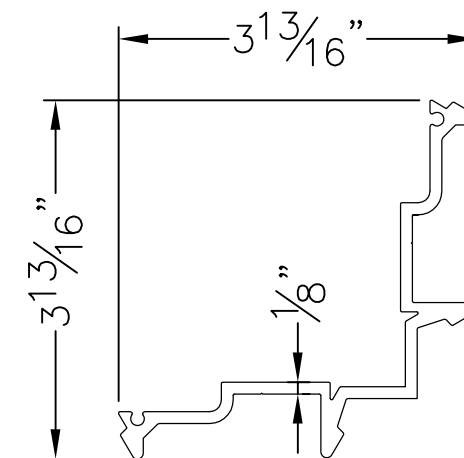
ITEM 5 - E5TB110FS
OUTSIDE CORNER
CAPTURED
CURTAINWALL ADAPTOR



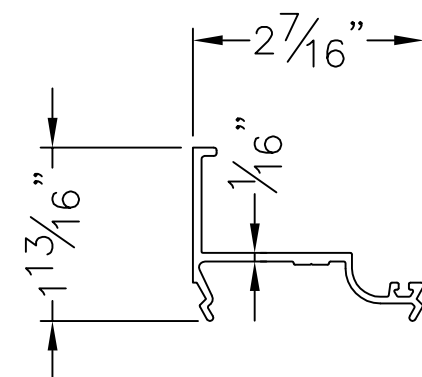
ITEM 6 - E4TB64FS
COVER, FACE
2-1/2 X 3/4



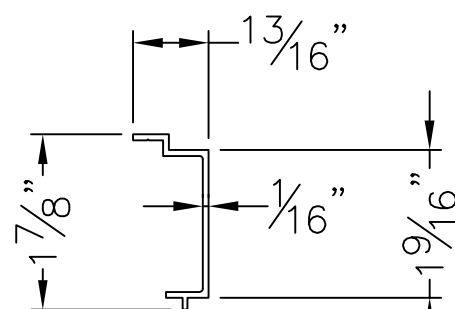
ITEM 8 - E4TB102FS
PRESSURE PLATE
(1 5/16")



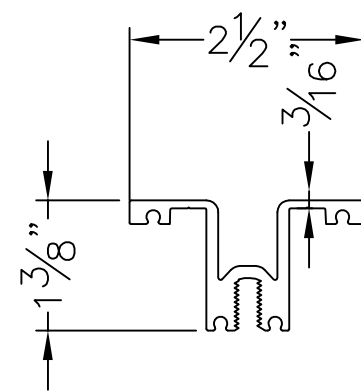
ITEM 9 - E5TB250FS
PRESSURE PLATE
CORNER (1 5/16")



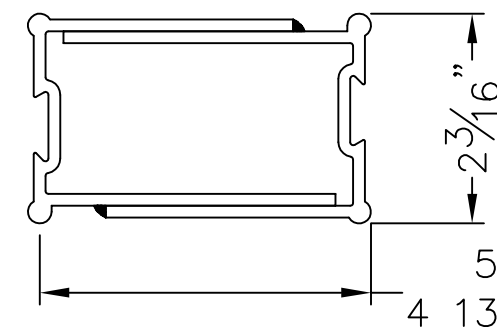
ITEM 10 - E5TB251FS
CURTAINWALL FILLER -
PRESSUE PLATE (1 5/16")



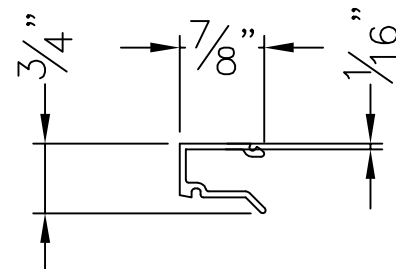
ITEM 13 - E6642FS
GLAZING POCKET
CLOSURE (1 5/16")



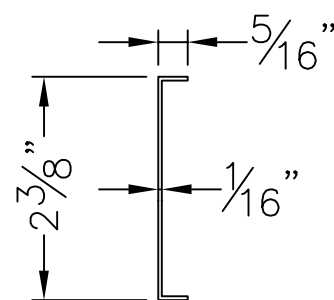
ITEM 16 -
E4TB170FS SCREW
APPLIED HORN



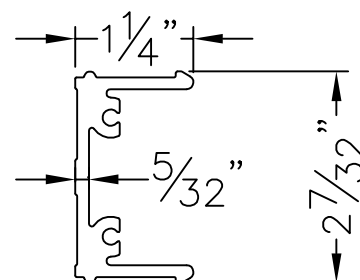
ITEM 23 & 24
P1627D ~ USE WITH ITEM 1
P1627J ~ USE WITH ITEM 3
MULL SPLICE 10" LG



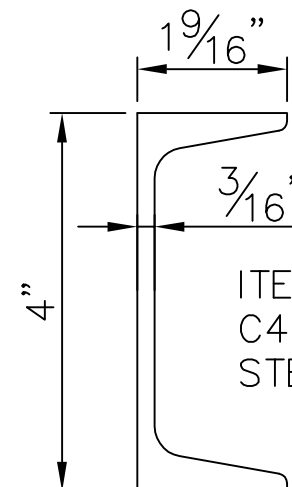
ITEM 25 - P1631
FILLER 10" LG



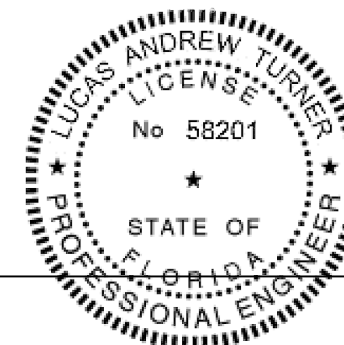
ITEM 26 - P1628B
FACE COVER SPLICE
SLEEVE 4" LG



E4TB113 - EXTRUSION
ITEM 27 - PTB59
ITEM 28 - PTB60
SHEAR BLOCK CLIP



ITEM 115-118
C4 X 5.4 A36
STEEL CHANNEL



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REVISION HISTORY:

REV	DATE	DESCRIPTION	DRAWN
O	5.7.14	ORIGINAL RELEASE	LT
A	2.24.15	ANCHOR REVISIONS	LT
B	8.27.15	ADDED LMTWIN	LT

DATE: 05.07.14

DRAWING NUMBER:

FPA-400-CAP-IMP

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: B

SHEET NAME:

PART DRAWINGS

SHEET: 13 OF 14

