

GENERAL NOTES

1. THIS CURTAIN WALL SYSTEM HAS BEEN TESTED TO ASTM E 330, ASTM E 283, ASTM E 331, AAMA 501.1, AND AAMA 501.4, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION, OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. THIS APPROVAL DRAWING REPRESENTS THE AS-TESTED PRODUCT CONFIGURATIONS (TESTED BY CONSTRUCTION CONSULTING LABORATORY, CARROLLTON, TEXAS, REPORT CCLI-15-042) AND IS NOT INTENDED TO LIMIT ANALYSIS OF OTHER CONFIGURATIONS OR OPTIONS. THIS TESTING ALSO QUALIFIES TUBELITE 400TU FRAMING OF SIMILAR CONFIGURATIONS IN GREATER FRAMING DEPTHS. THE INSTALLED CURTAIN WALL SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED IN ACCORDANCE WITH SHOP DRAWINGS FOR EACH PROJECT, PREPARED BY A FLORIDA LICENSED ENGINEER FAMILIAR WITH CURTAIN WALL DESIGN. THIS ENGINEER OF RECORD SHALL TAKE FULL RESPONSIBILITY FOR THE INSTALLED SYSTEM DESIGN AS A WHOLE.
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 NON-IMPACT AND REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES IN WINDBORNE DEBRIS AREAS.
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, OR BY OTHER METHOD APPROVED BY THE ENGINEER OF RECORD AS DESCRIBED IN NOTE 2 ON APPROVED SHOP DRAWINGS.
12. MINIMUM ANCHOR EMBEDMENTS LISTED IN TABLE A 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.

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TABLE A. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/2" HILT I KWIK BOLT 3 CARBON OR STAINLESS STEEL	2 1/4"	3 3/8"
B	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/2" POWERS WEDGE CARBON OR STAINLESS STEEL	3 1/2"	4 1/2"
D	SOUTHERN PINE WOOD (G=0.55 MIN)	1/2" GRADE 5 LAG SCREW	3"	2"
E	1/4" ALUM. 6063-T5 MIN. OR 1/4" STEEL 36 KSI MIN.	1/2-13 GRADE 5 BOLT WITH WASHERS, LOCK WASHER, AND NUT OR THREADED INTO METAL	FULL	1 1/4"

MATERIAL NOTES

TUBELITE - 400TU ULTRA THERMAL CURTAIN WALL

DESIGN PRESSURE:
- WINDLOADS : DESIGN PRESSURE OF +/- 40 PSF

ALUMINUM ALLOYS:
- 6063-T6 FOR ALL FRAMING MEMBERS.
- 6061-T6 or 6005-T5 FOR ALUMINUM ANCHORS & STRUCTURAL MEMBERS.
- 3003-H14 FOR ALL FORMED ALUMINUM SHAPE UNLESS NOTED ON DETAIL.

STEEL:
- ALL CARBON STEEL ROLLED SHAPES, PLATES AND BARS SHALL BE ASTM A-36 STEEL U.N.O.
- WELDING SHALL BE DONE IN ACCORDANCE OF WITH AWS D1.1

DISSIMILAR METALS PROTECTION:
- ALUMINUM TO STEEL - ISOLATOR SLIP PAD OR TAPE PER DETAILS

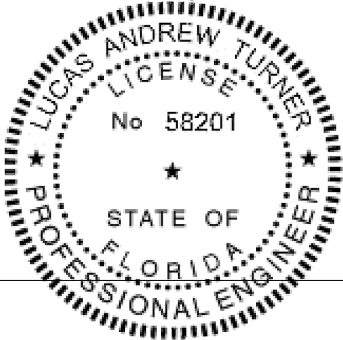
FASTENERS:
- SEE TABLE A AND FASTENER SCHEDULES IN DETAILS THROUGHOUT DRAWINGS

GLASS
- 1/4" TEMPERED O.B. - 1/2" AIR SPACE - 1/4" TEMPERED I.B.

GLAZING MATERIALS
- TO MEET GANA GUIDLINES AND ASTM C 864, ASTM C 1115

SEALANTS:
- ALL SHOP APPLIED WEATHER SEAL SILICONE TO BE DOW CORNING 795 - COLOR BLACK
- ALL SHOP APPLIED STRUCTURAL SILICONE TO BE DOW CORNING 995 - COLOR BLACK.
- ALL BACKER RODS TO BE CLOSED "SOF-ROD" CELL NON GASSING MATERIAL COMPATIBLE WITH SEALANT PER SEALANT MANUFACTURER'S RECOMMENDATION.
- SURFACES TO RECEIVE SEALANT SHALL BE THOROUGHLY CLEANED, PRIMED AND INSTALLED IN ACCORDANCE WITH THE SEALANT MANUFACTURER'S TECHNICAL REVIEW AND THE MATERIAL ADHESION AND COMPATIBILITY TESTING.

DEFLECTION OF FRAMING MEMBERS
- NORMAL TO WALL PLANE: LIMITED TO 1/175 OF CLEAR SPANS UP TO 13'-6" AND TO 1/240 OF CLEAR SPAN PLUS 1/4 INCH FOR SPANS GREATER THAN 13'-6"



LT

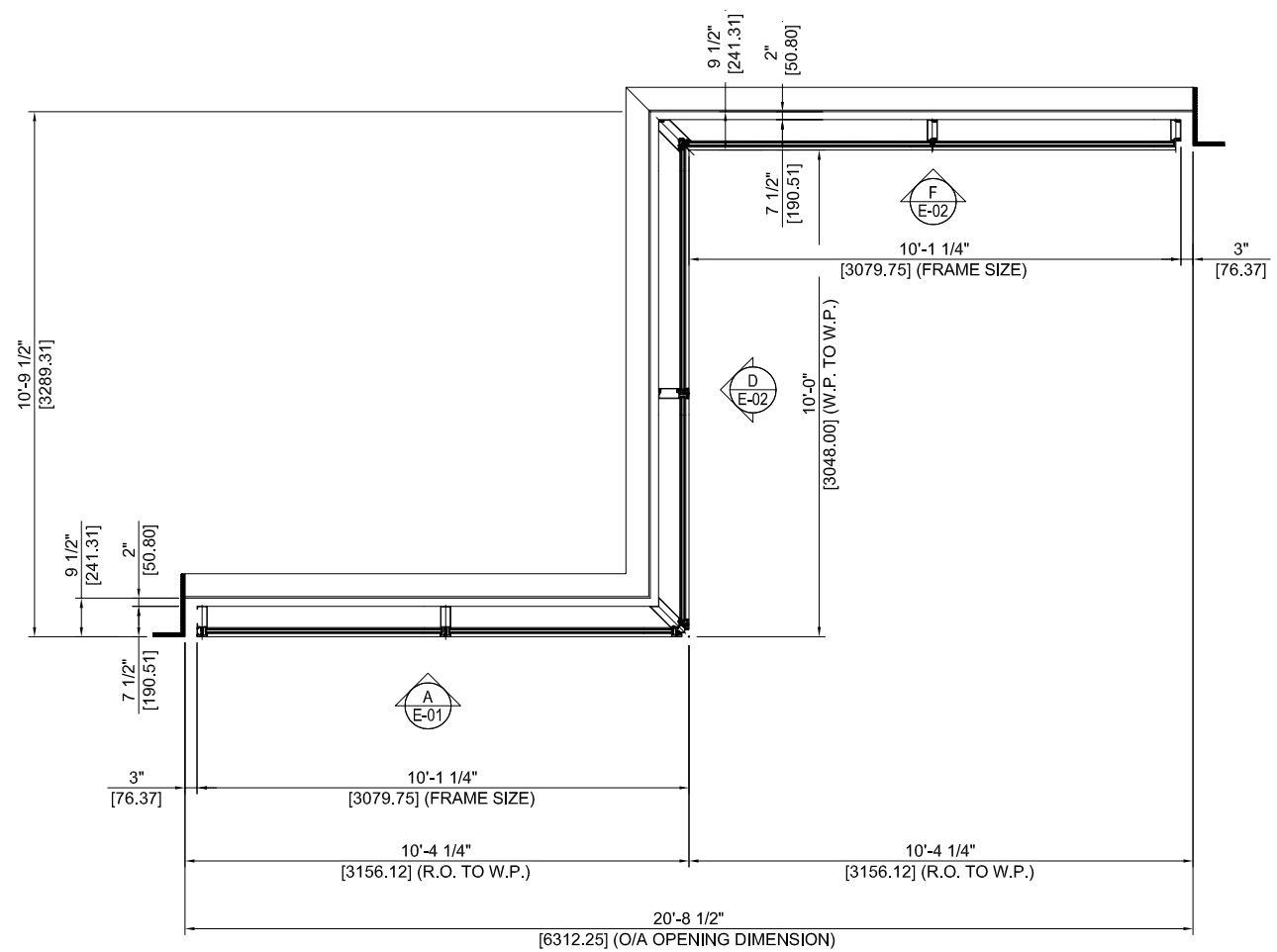
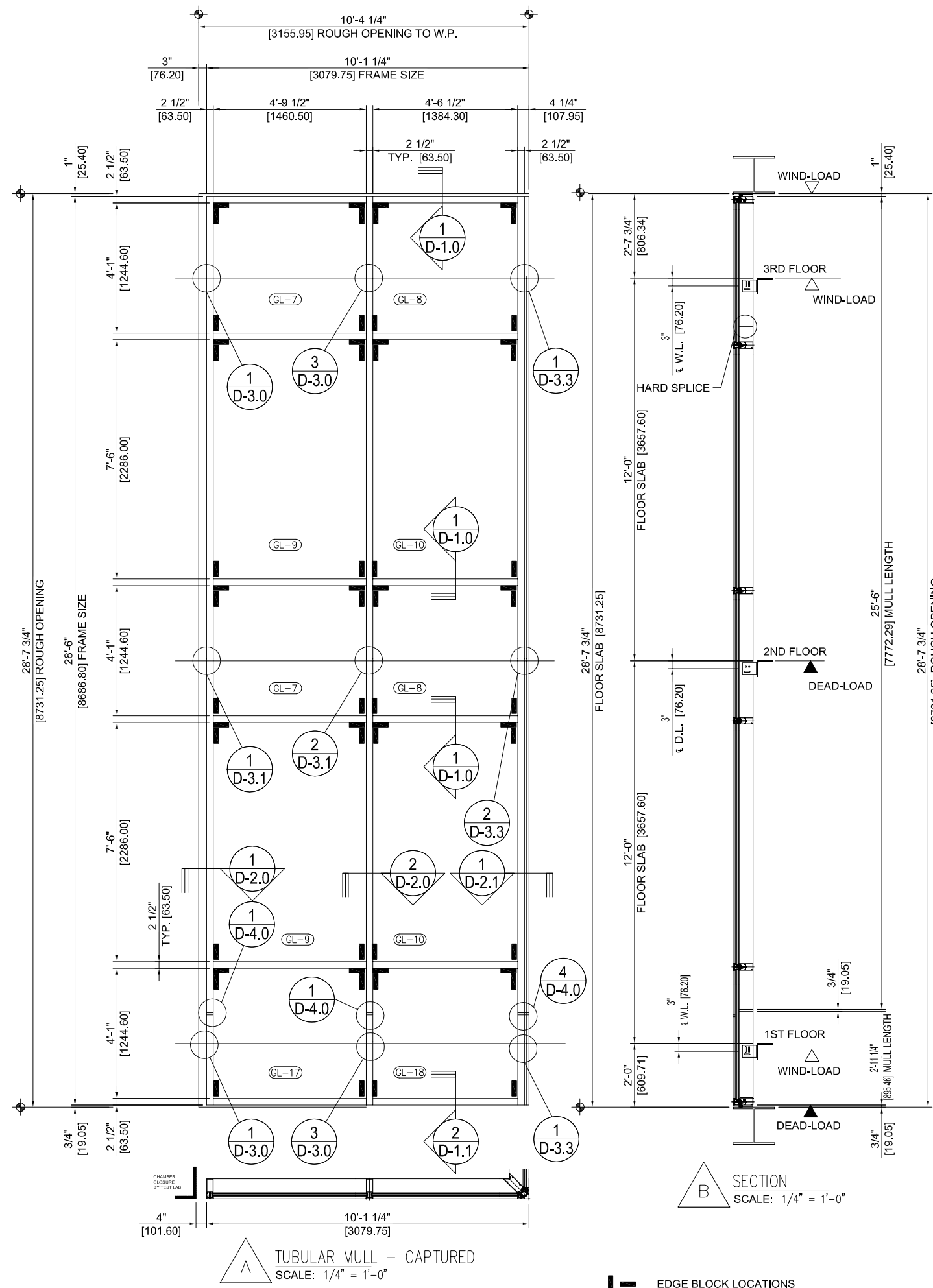
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REV	DATE	DRAWN	DESCRIPTION	
O	11.11.15	CDC	RELEASE TO TEST LAB	
A	2.18.16	LT	MODIFY FOR FPA	
DATE:				02.18.16
DRAWING NUMBER:				FPA-400TU-NI
DRAWN:				
FINAL REVIEW:				
SCALE:				N.T.S.
REVISION:				A
SHEET NAME:				NOTES, ELEVATION
SHEET:				C1



FLOOR PLAN
SCALE: 1/4" = 1'-0"



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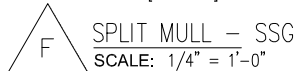
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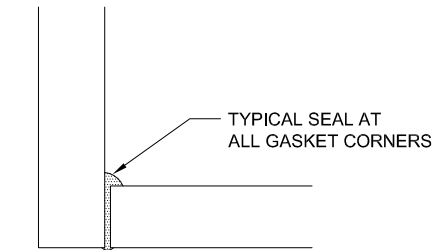
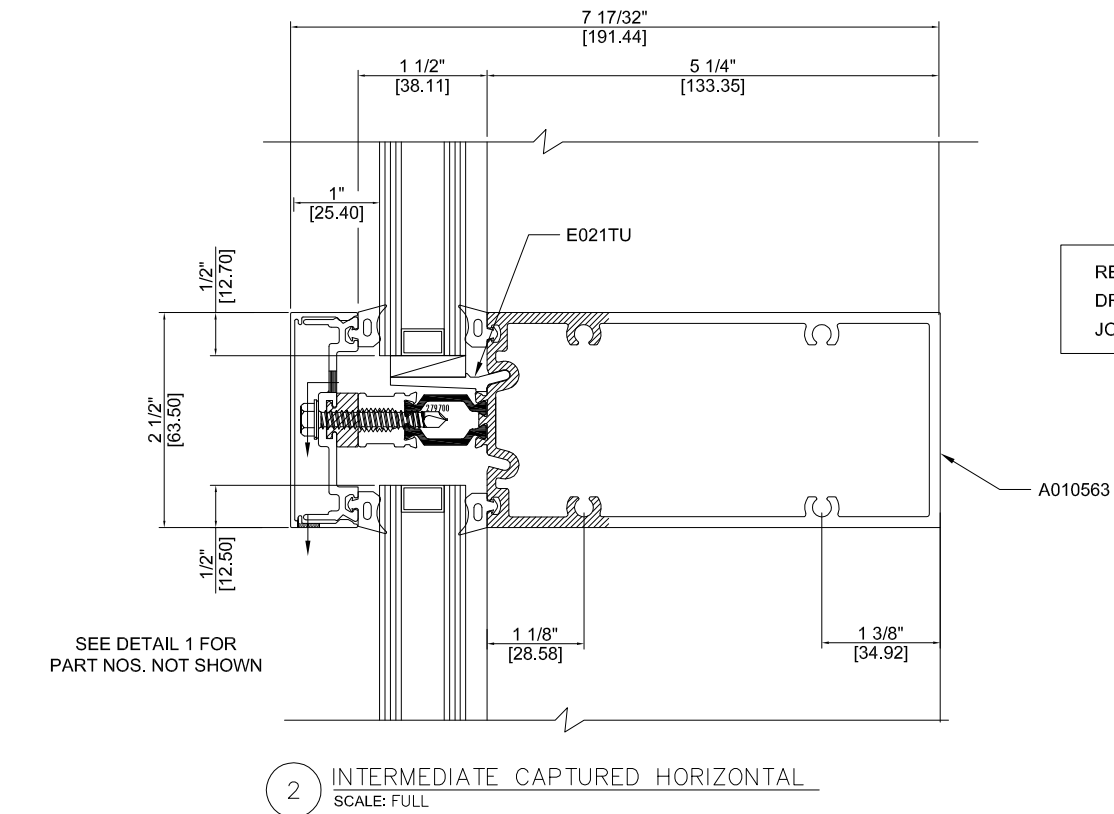
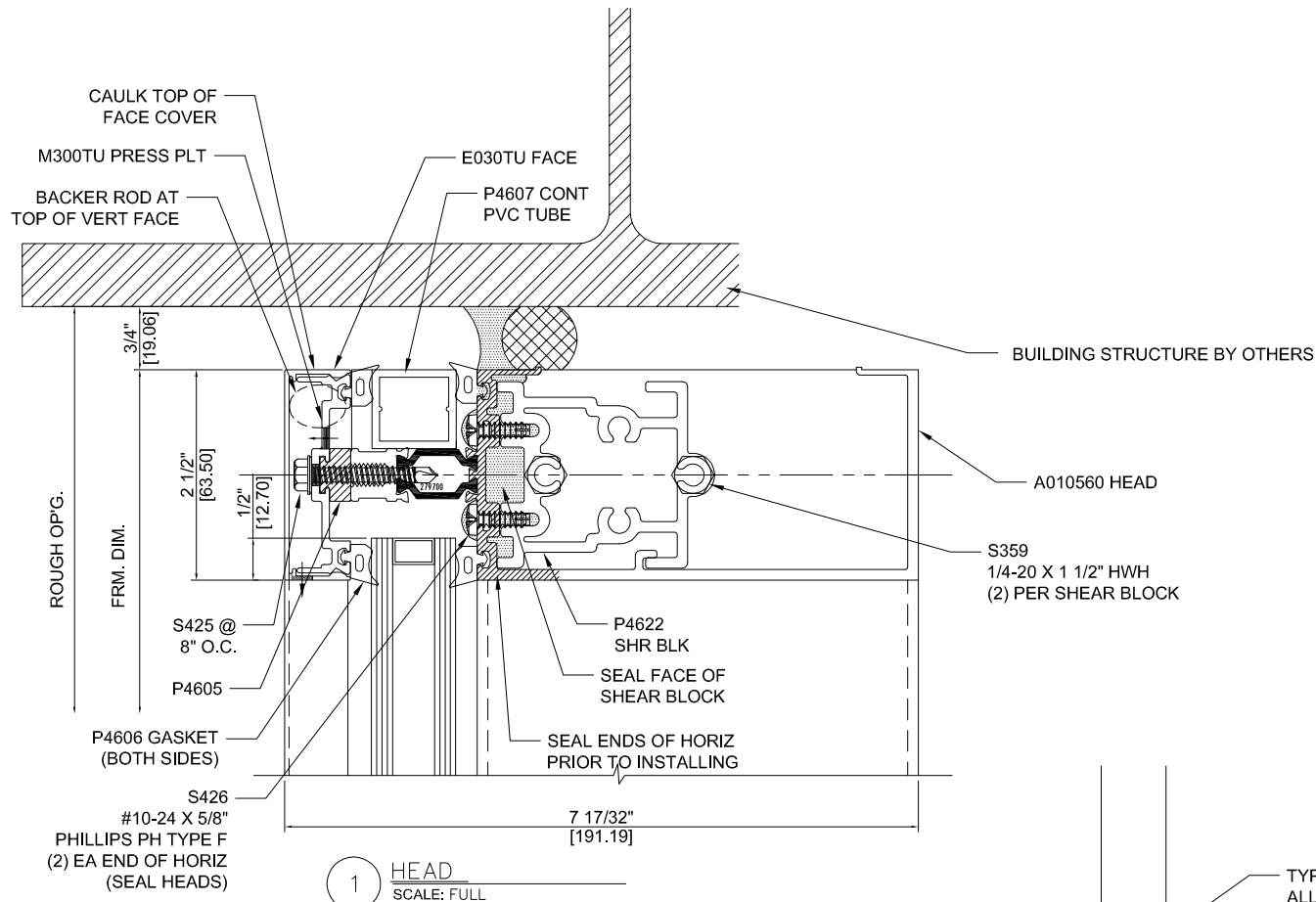


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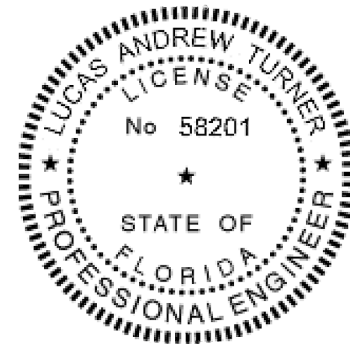
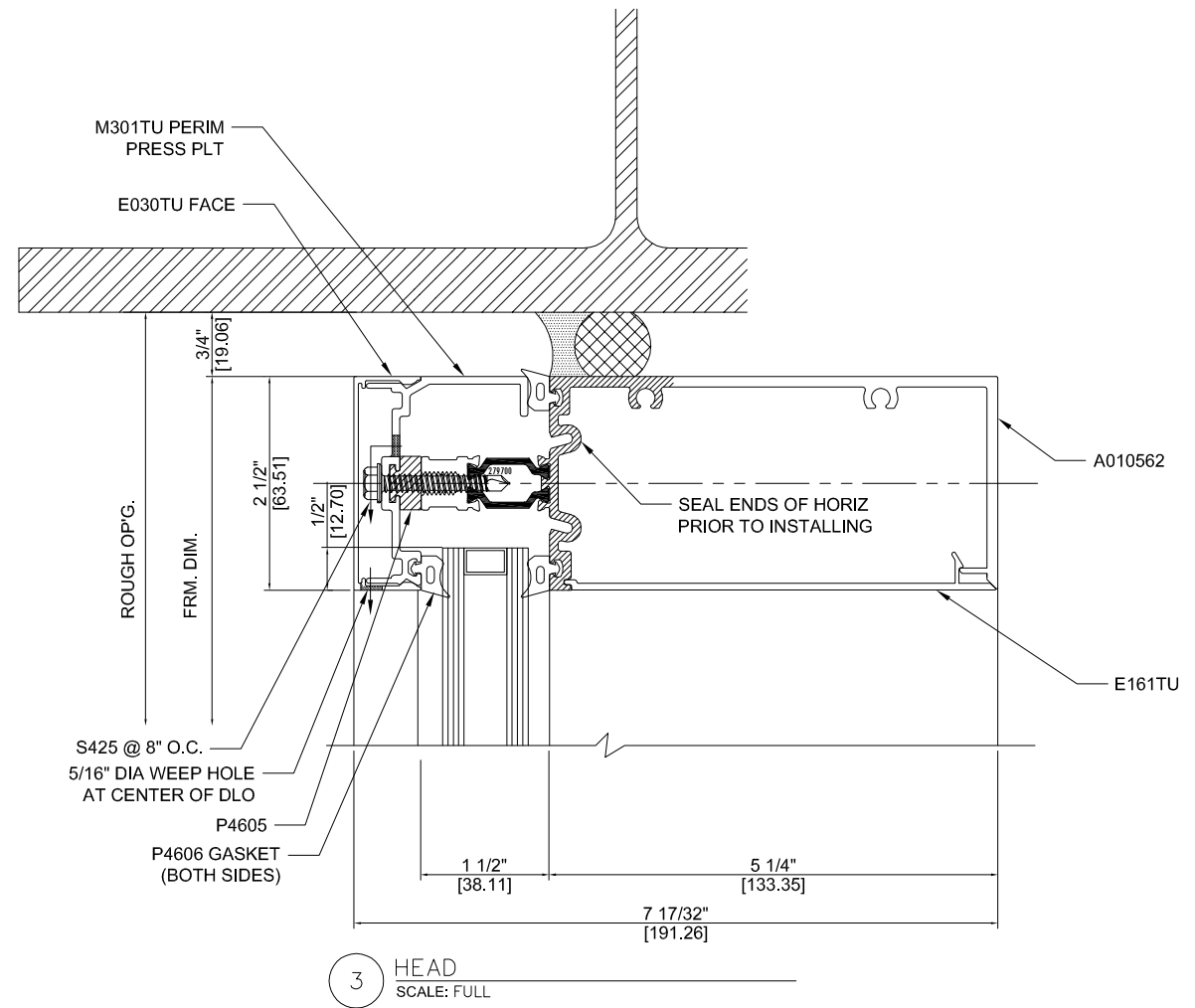
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REF. D-4 SERIES
DRAWINGS FOR
JOINERY DETAILS



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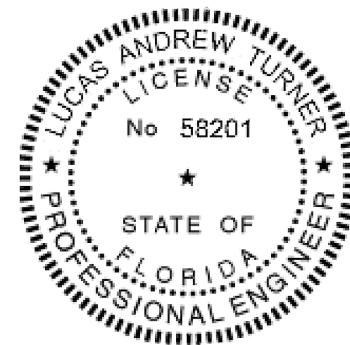
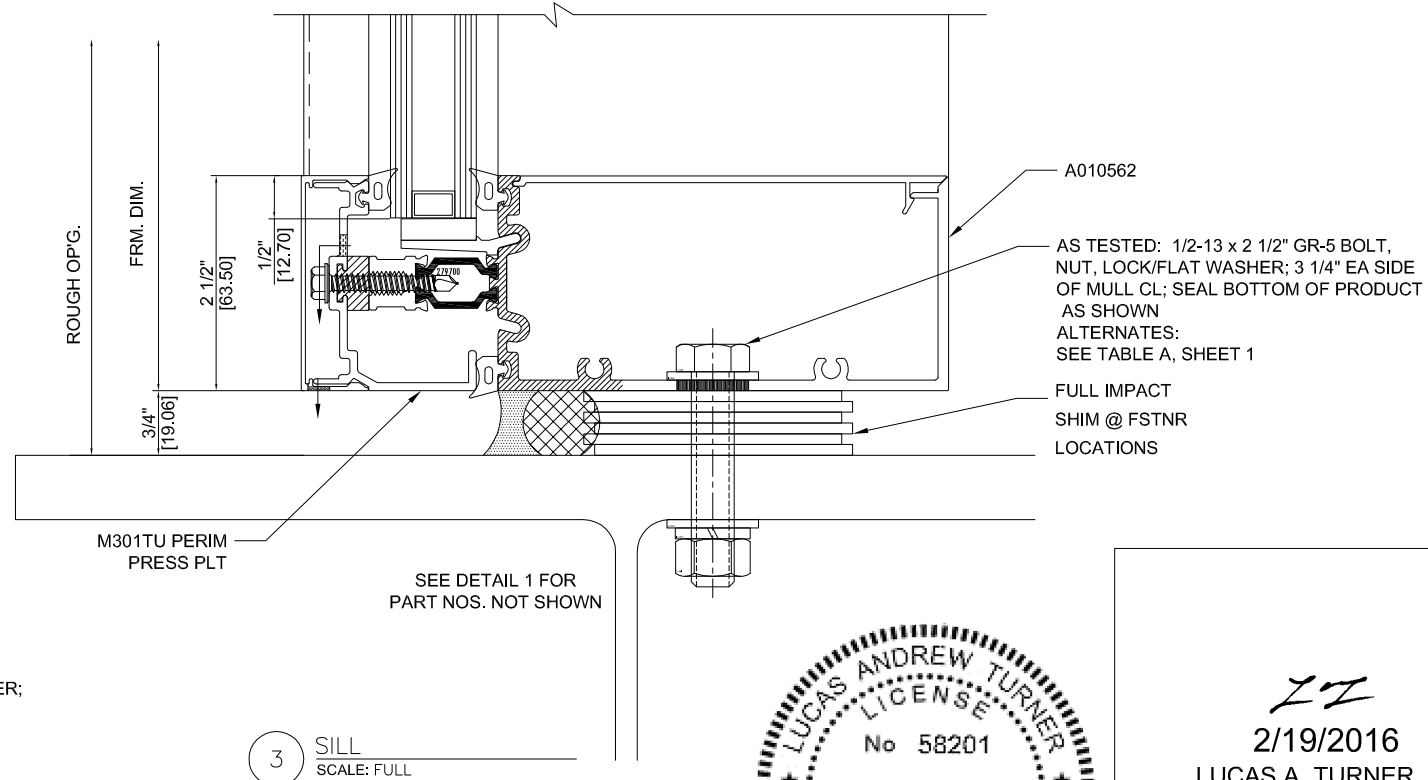
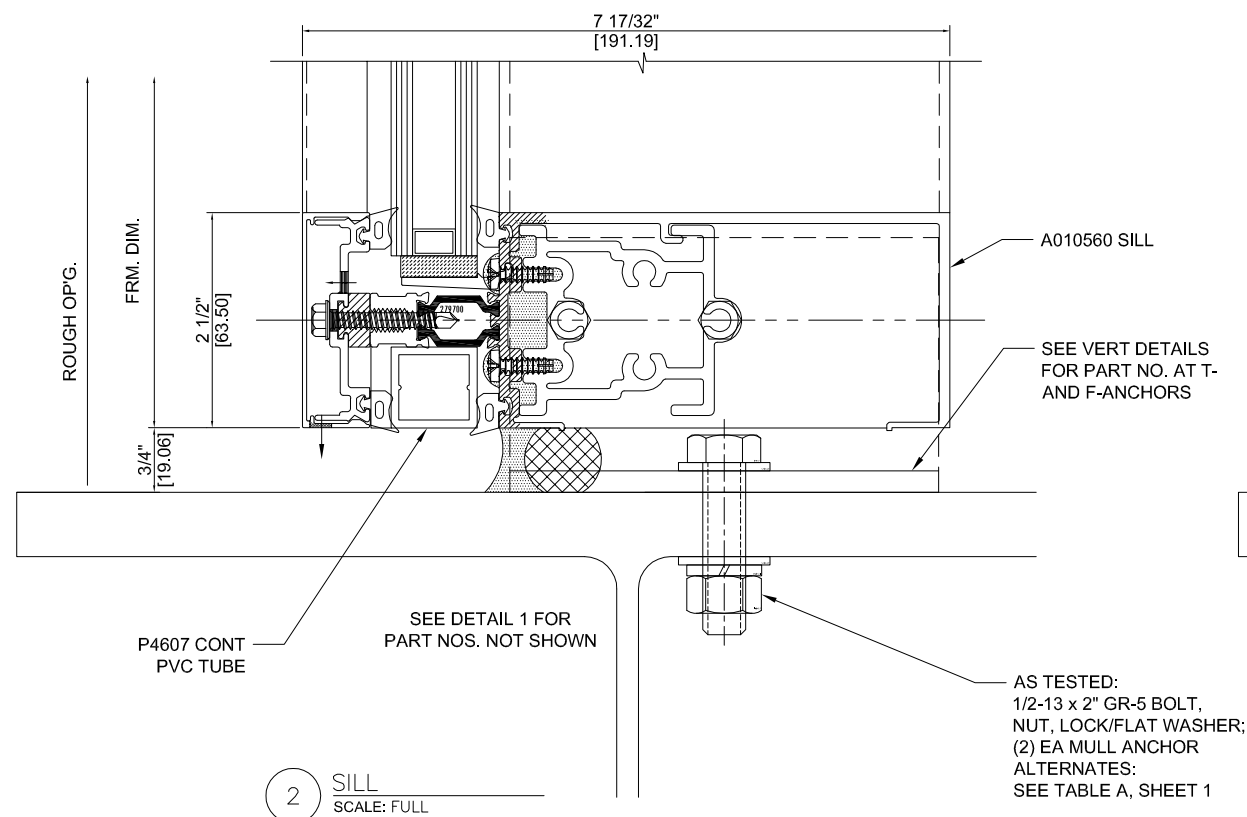
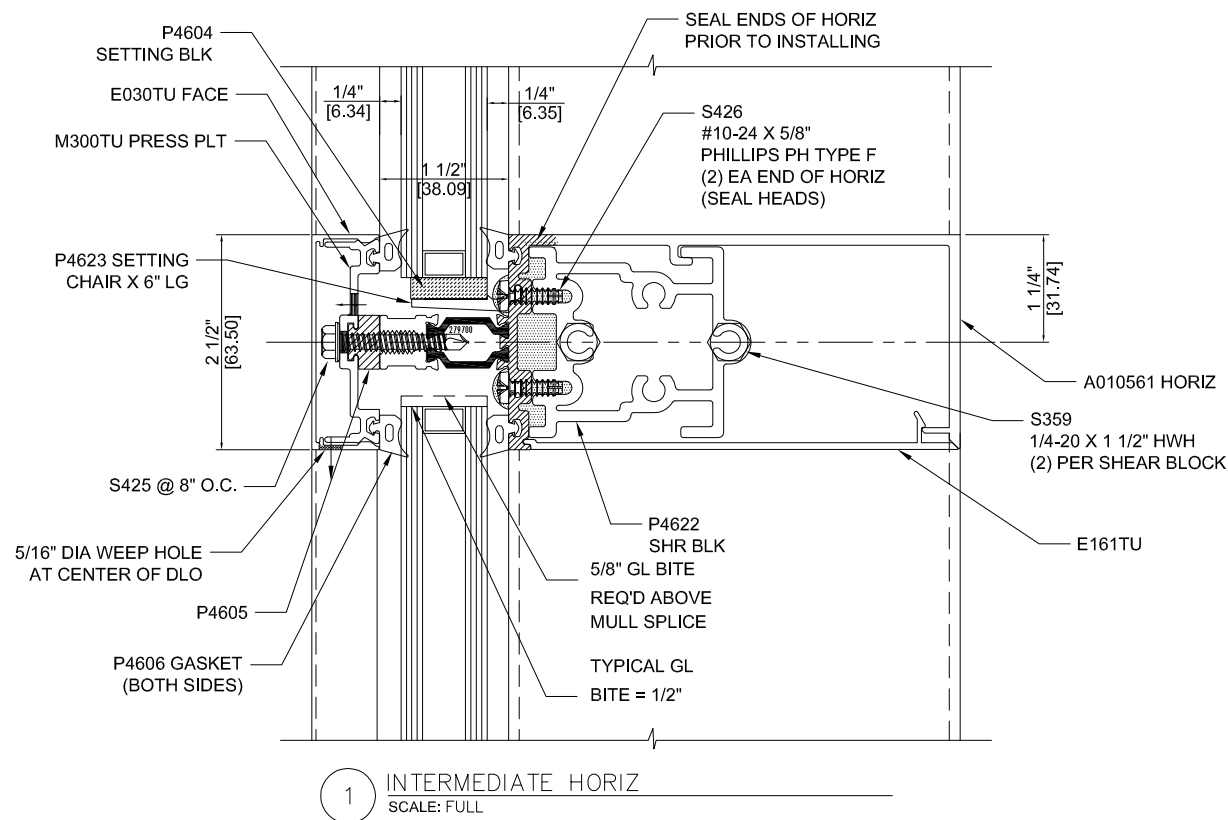
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REVISION: A

SHEET NAME:

HORIZONTALS
HEADS
INTERMED. SPLINE

SHEET: D-1.0



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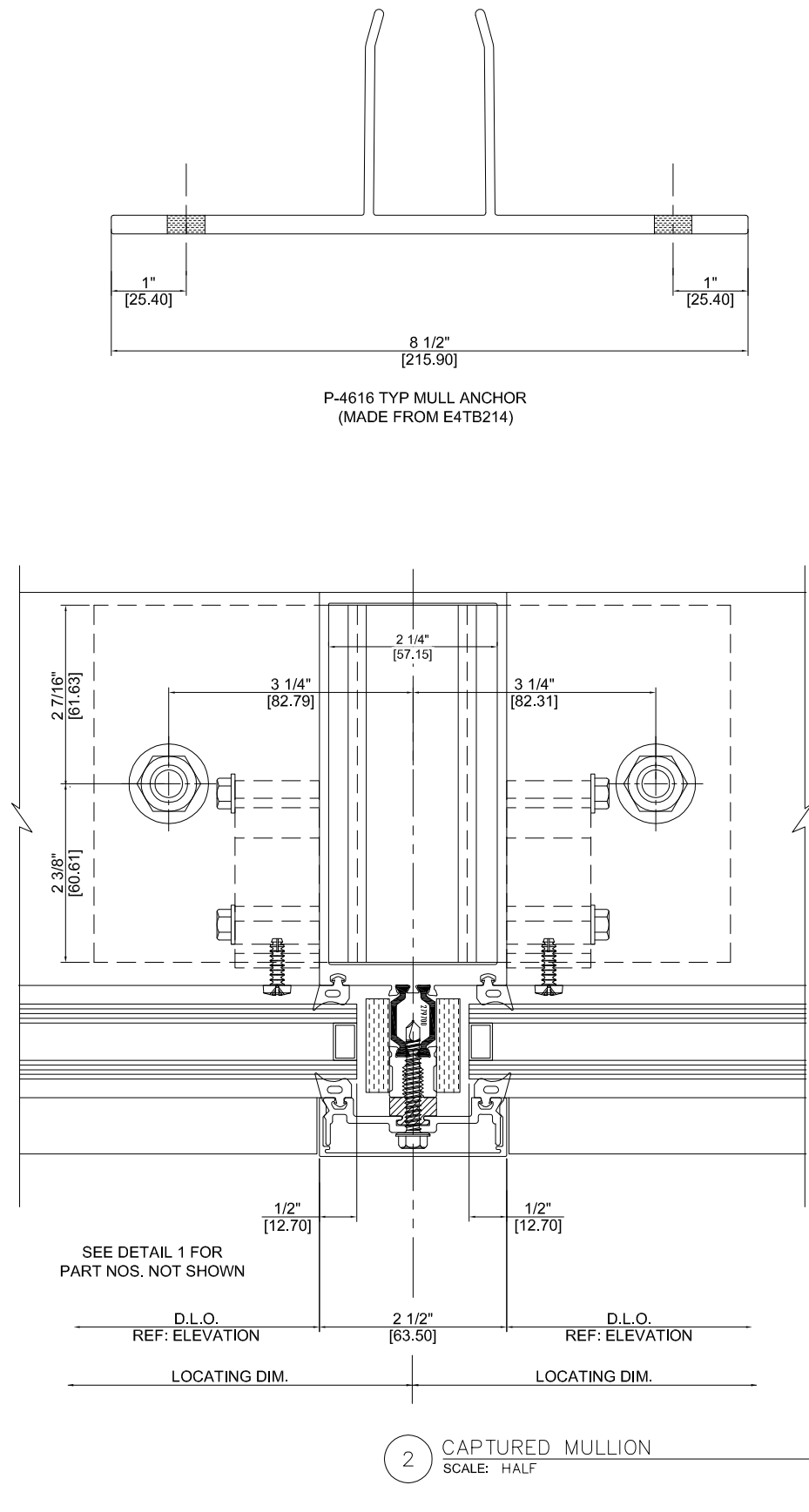
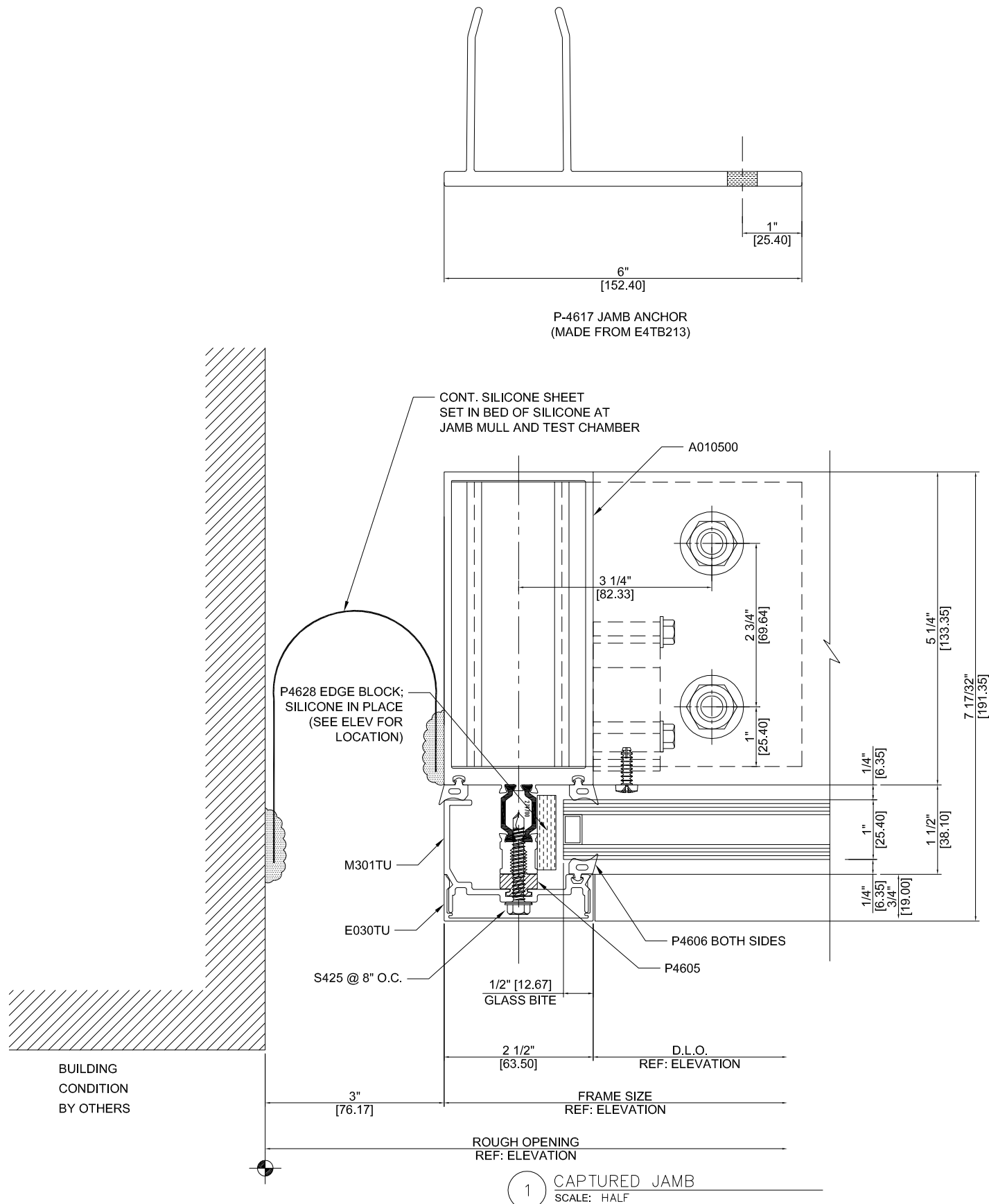
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REVISION: A

SHEET NAME:

HORIZONTALS
INTERMED. SHEAR
CLIP, SILLS

SHEET: D-1.1



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VERTICALS
CAP JAMB
CAP MULL

SHEET: D-2.0

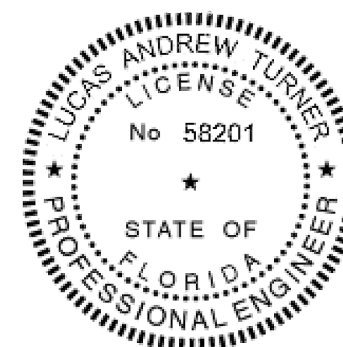
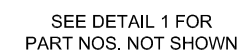
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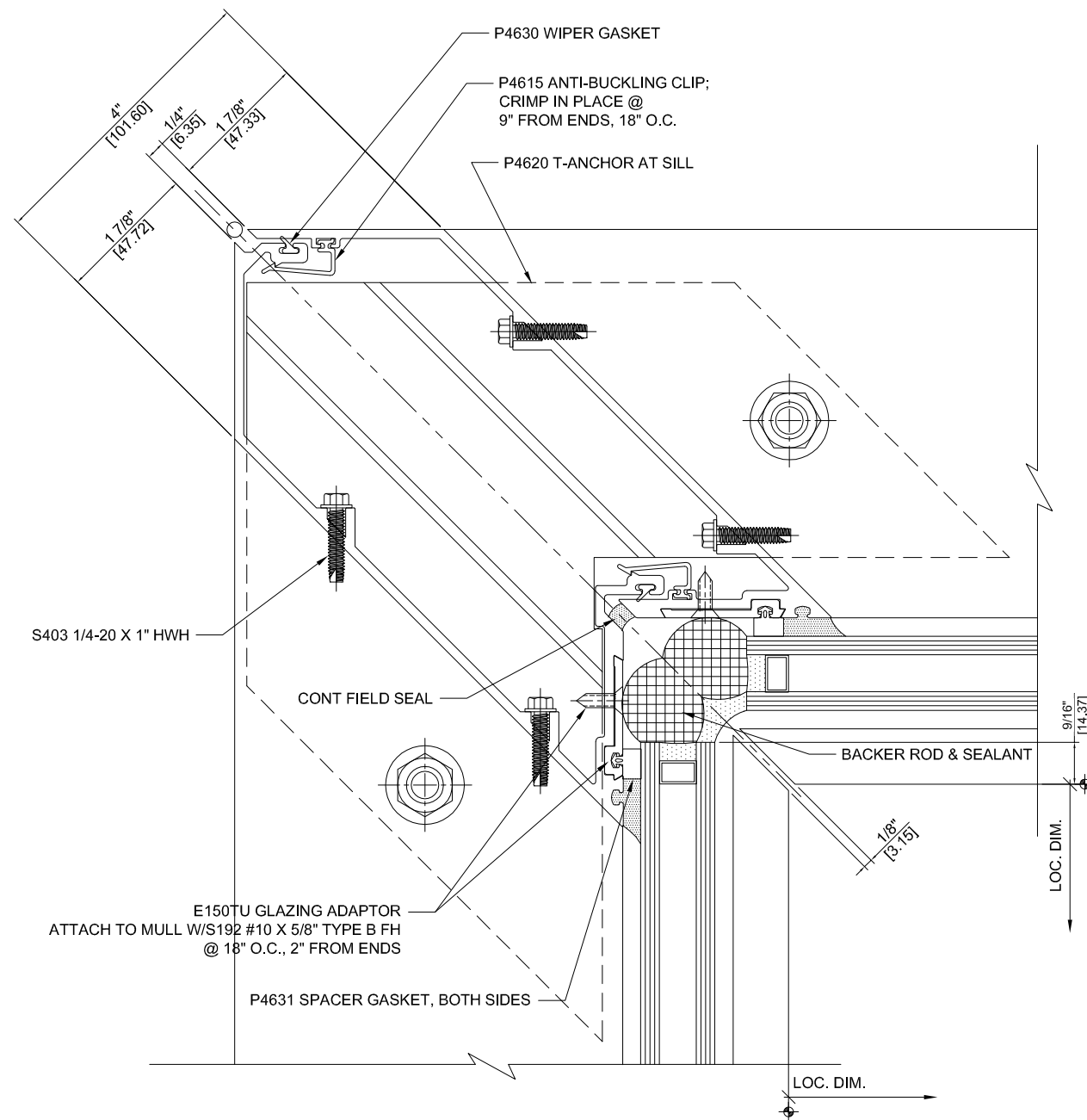
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VERTICALS
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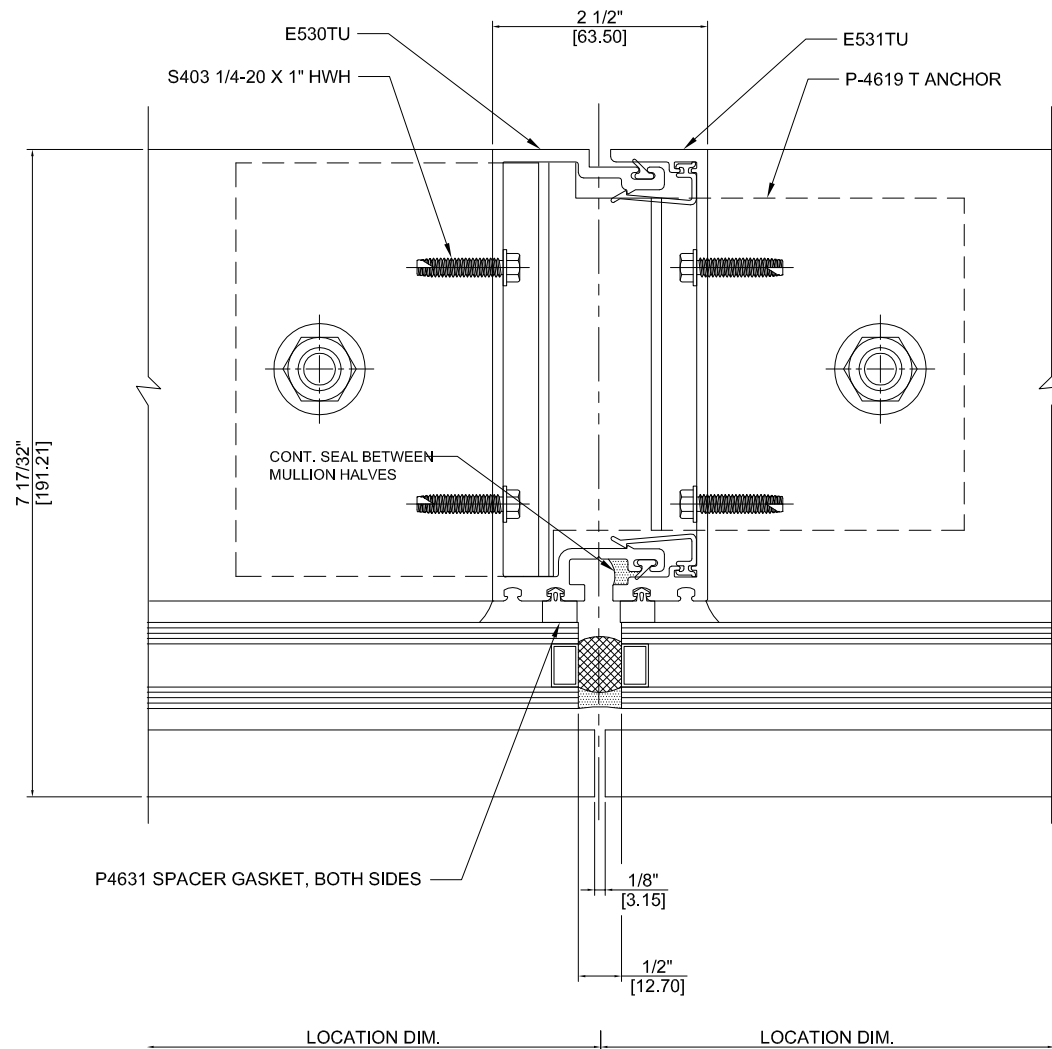
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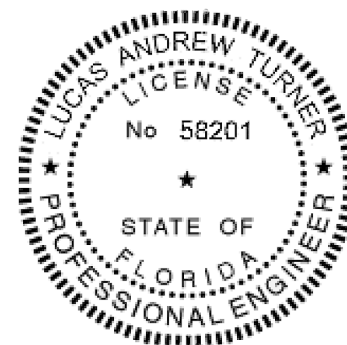


1 IS CORNER MULL
SCALE: FULL



SEE DETAIL 1 FOR
PART NOS. NOT SHOWN

2 SSG SPLIT MULLION
SCALE: FULL



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DRAWN:

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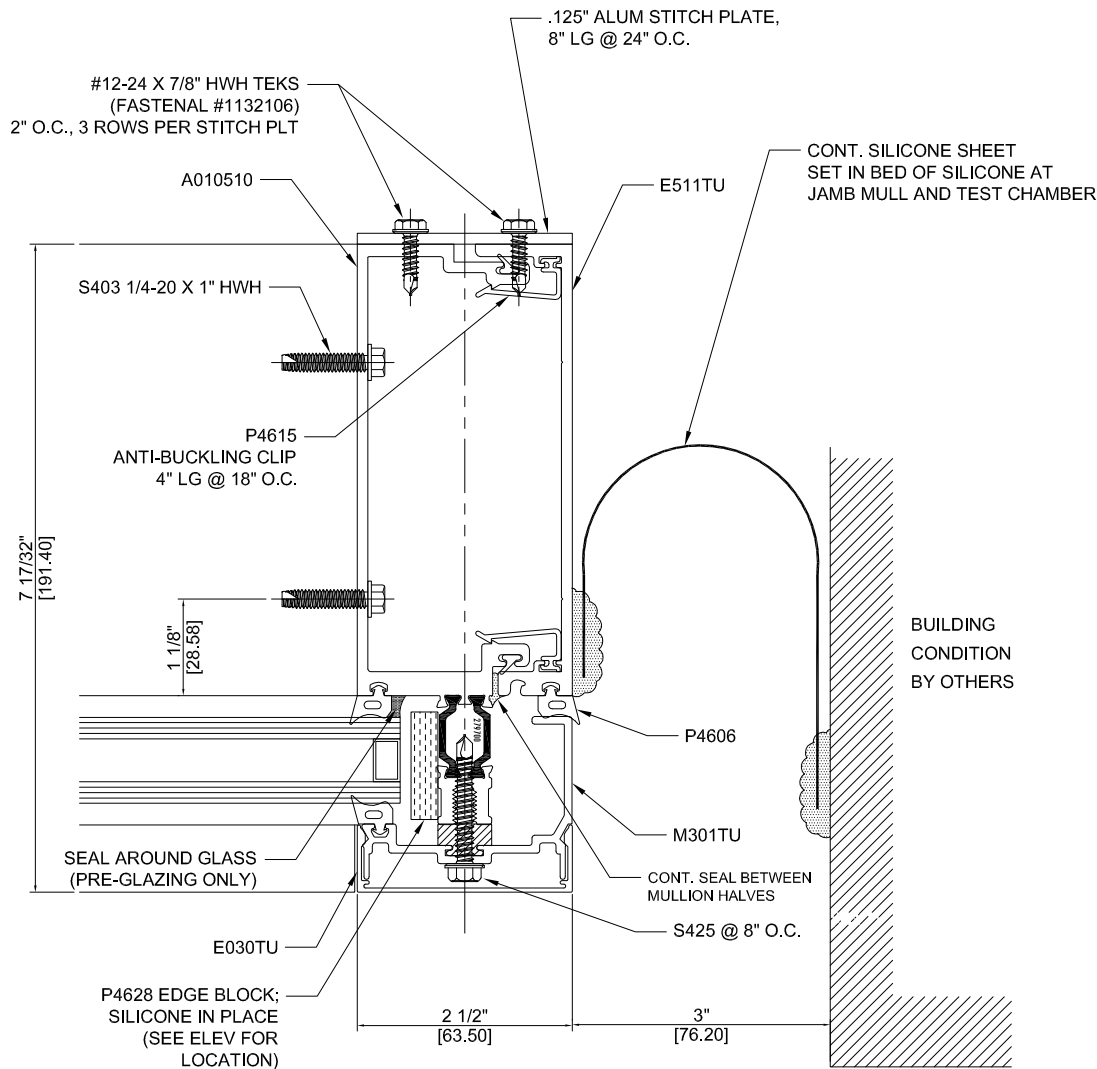
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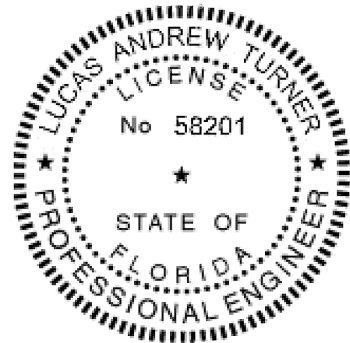
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VERTICALS
IS CORNER
SSG SPLIT

SHEET: D-2.2



1 JAMB
SCALE: FULL



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DRAWN:	
FINAL REVIEW:	
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REVISION:	A
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SHEET:	D-2.3

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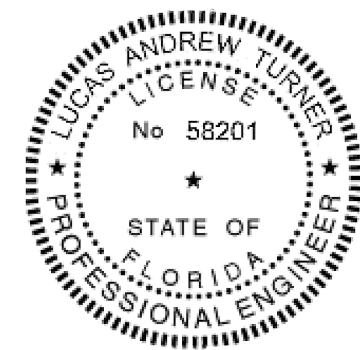
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ANCHORS
WIND LOAD

SHEET: D-3.0

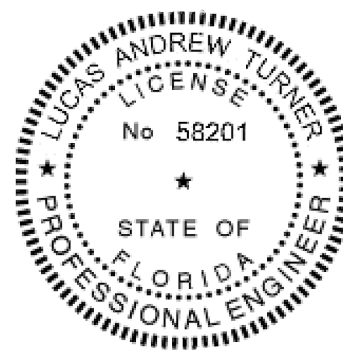


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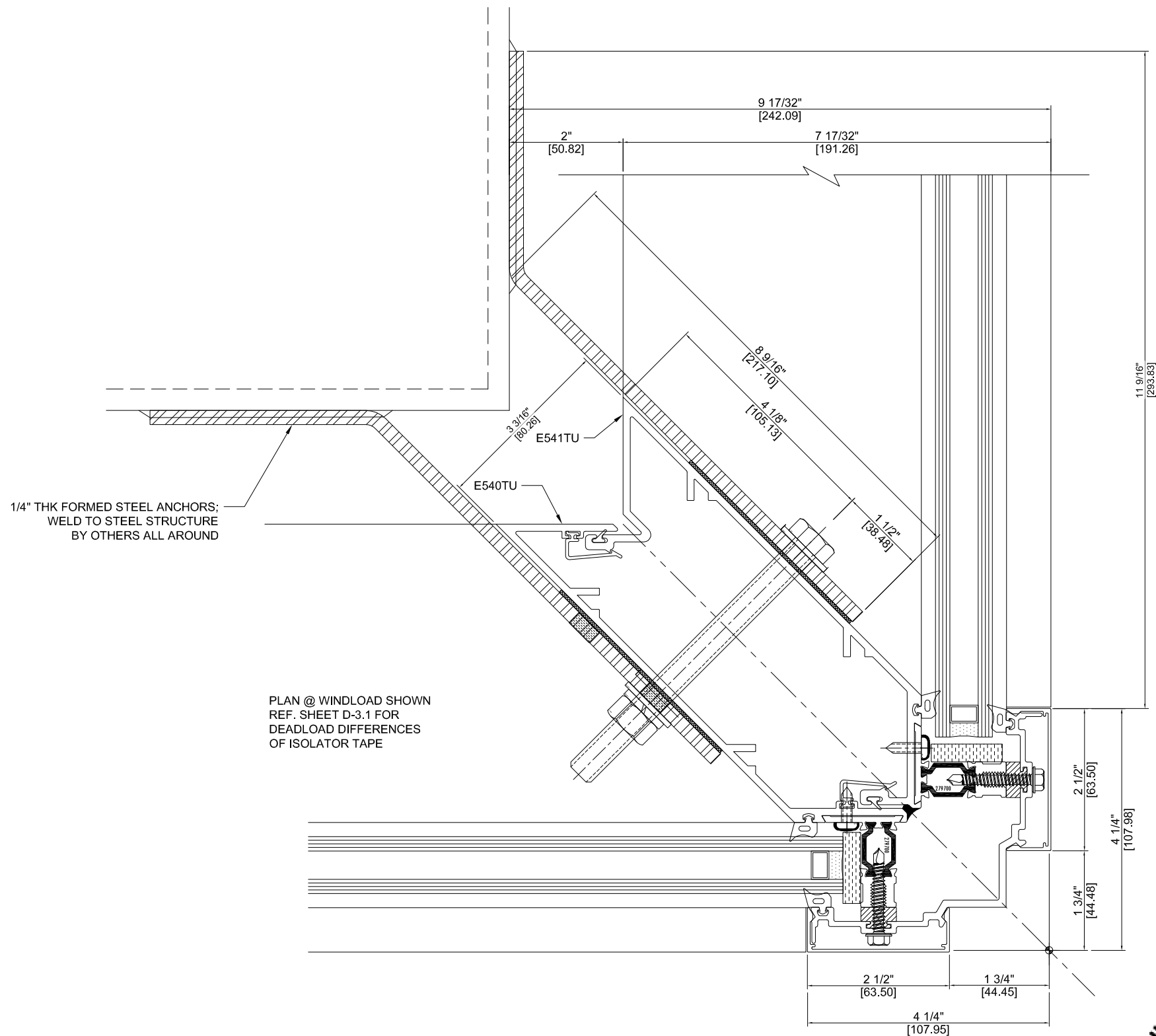
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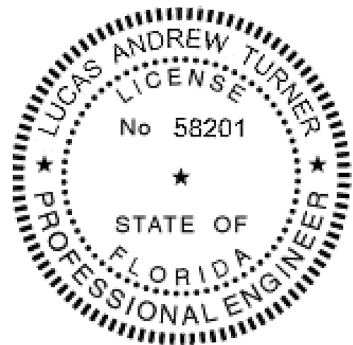
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1 OS CORNER ANCHOR PLAN
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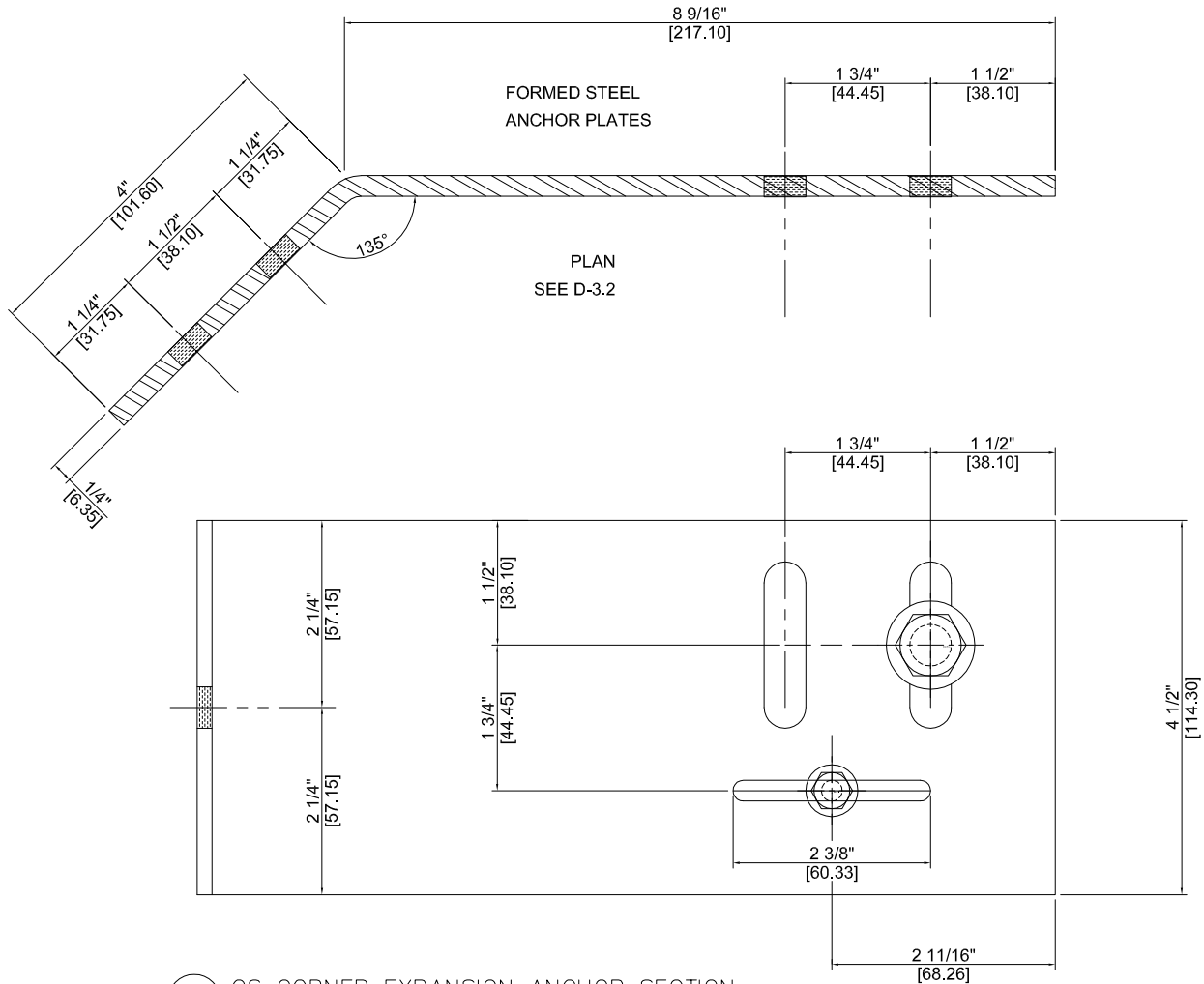
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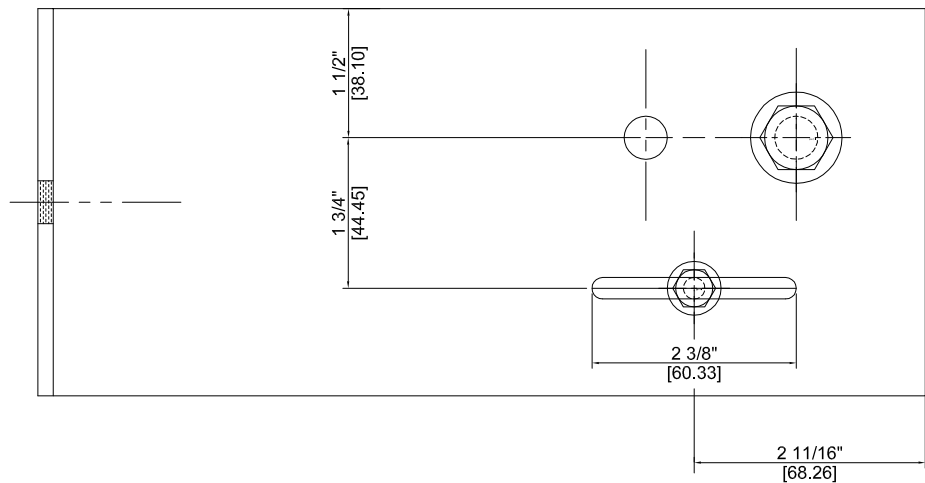
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SHEET NAME:
ANCHORS
OS CORNER PLAN

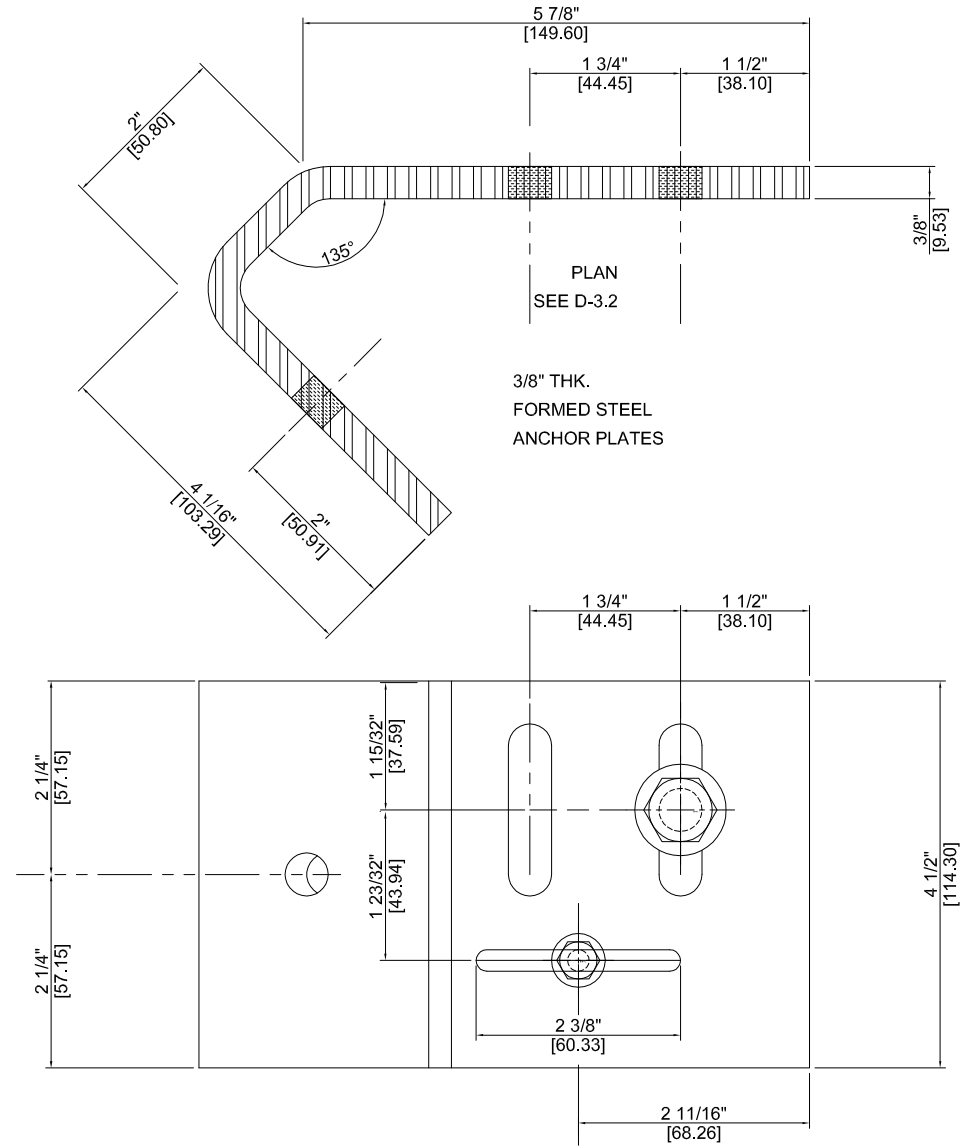
SHEET: D-3.2



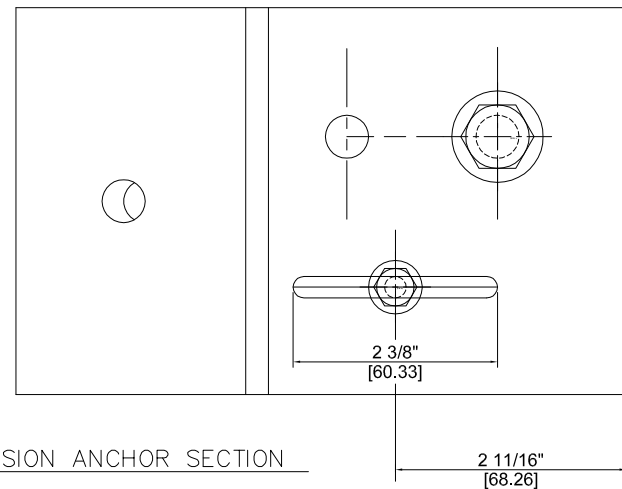
1 OS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL



2 OS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL



3 IS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL



4 IS CORNER EXPANSION ANCHOR SECTION
SCALE: FULL



22
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NORTH PORT, FL 34288

TUBELITE
CW 400TU CAPTURED
& SSG NON-IMPACT
CURTAIN WALL SYSTEM

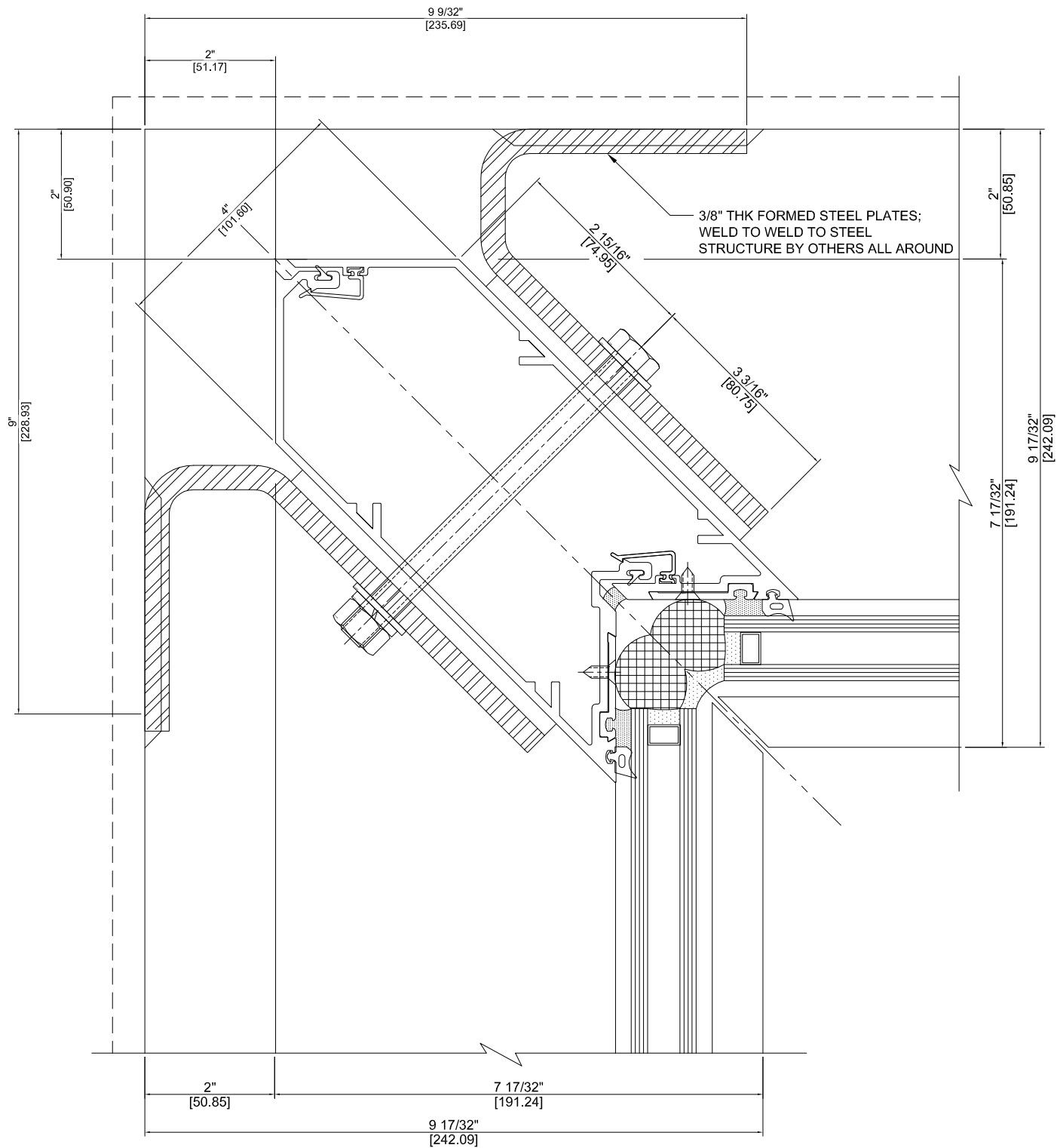
3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544
PH: 800.866.2227
FX: 616.301.0008
WEB SITE: WWW.TUBELITEINC.COM

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CURTAINWALL AND ENTRANCE SYSTEMS

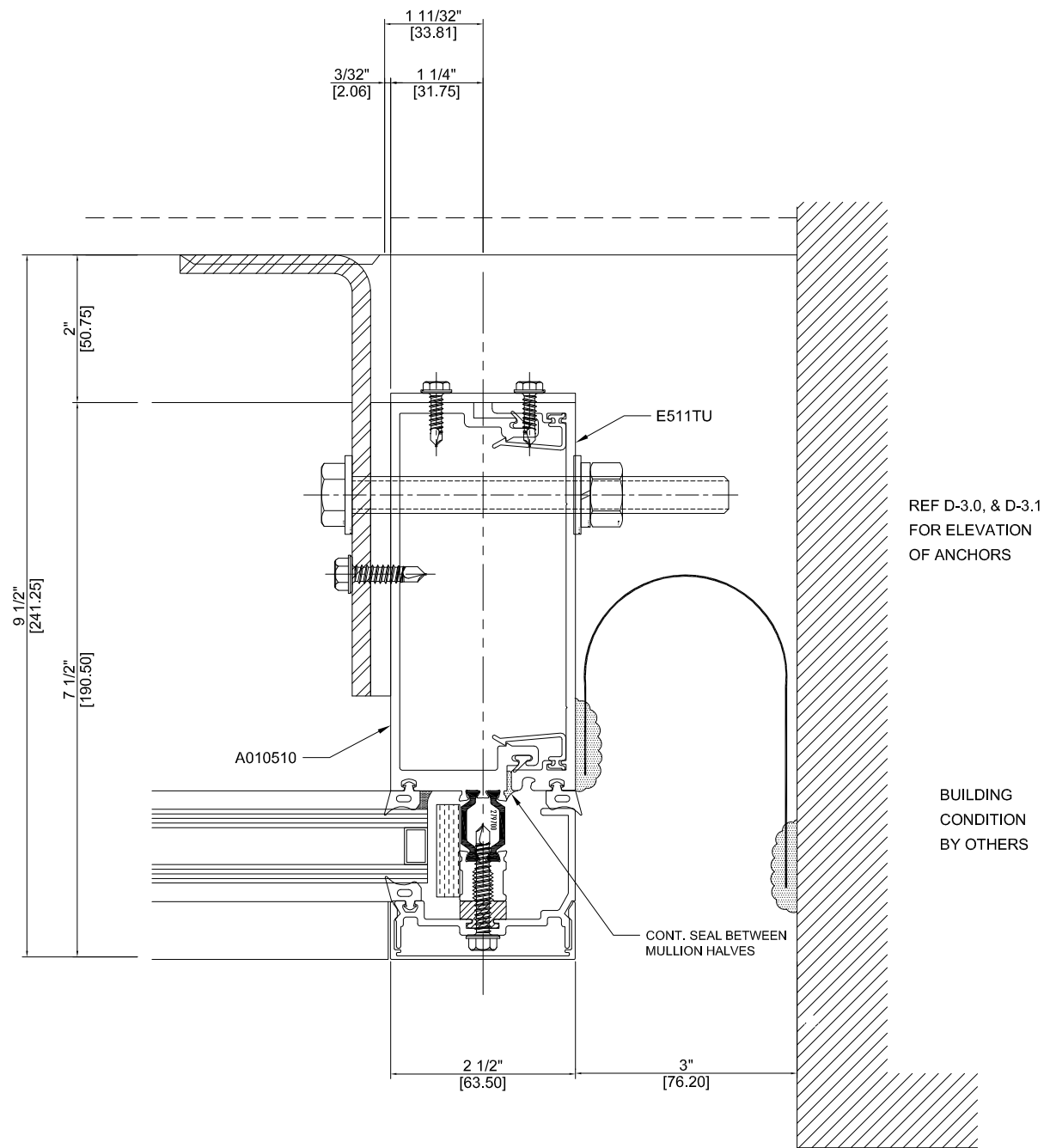
REVISION HISTORY:

REV	DATE	DESCRIPTION	DRAWN
O	11.11.15	RELEASE TO TEST LAB	CDC
A	2.18.16	MODIFY FOR FPA	LT

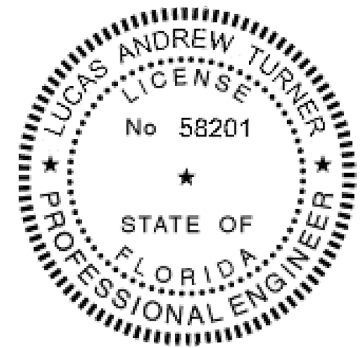
DATE:	02.18.16
DRAWING NUMBER:	FPA-400TU-NI
DRAWN:	
FINAL REVIEW:	
SCALE:	N.T.S.
REVISION:	A
SHEET NAME:	ANCHORS CORNER EXPANSION
SHEET:	D-3.3



1 IS CORNER ANCHOR PLAN
SCALE: FULL



2 PLAN @ JAMB ANCHOR
SCALE: FULL



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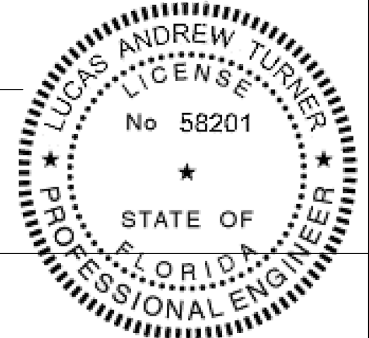
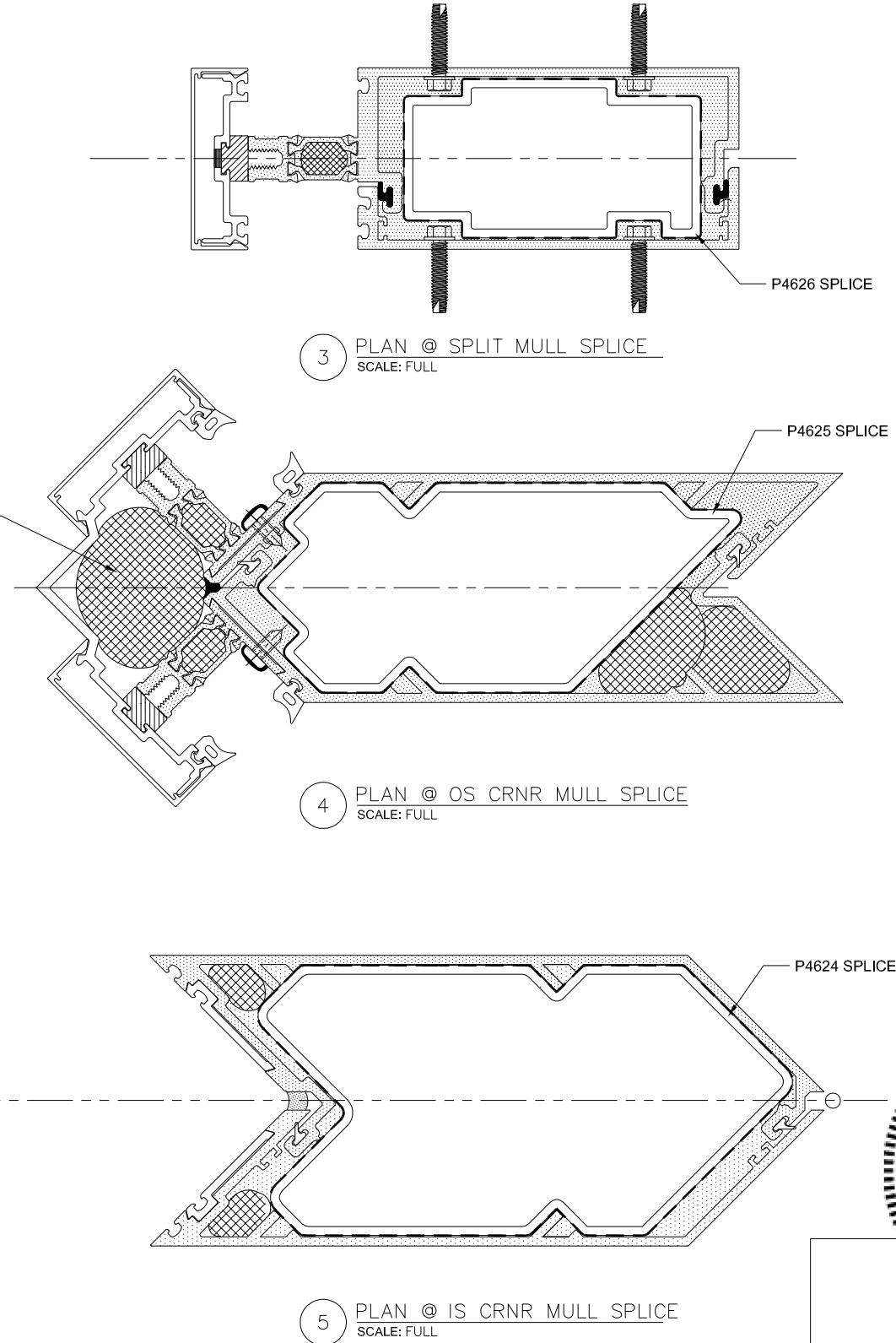
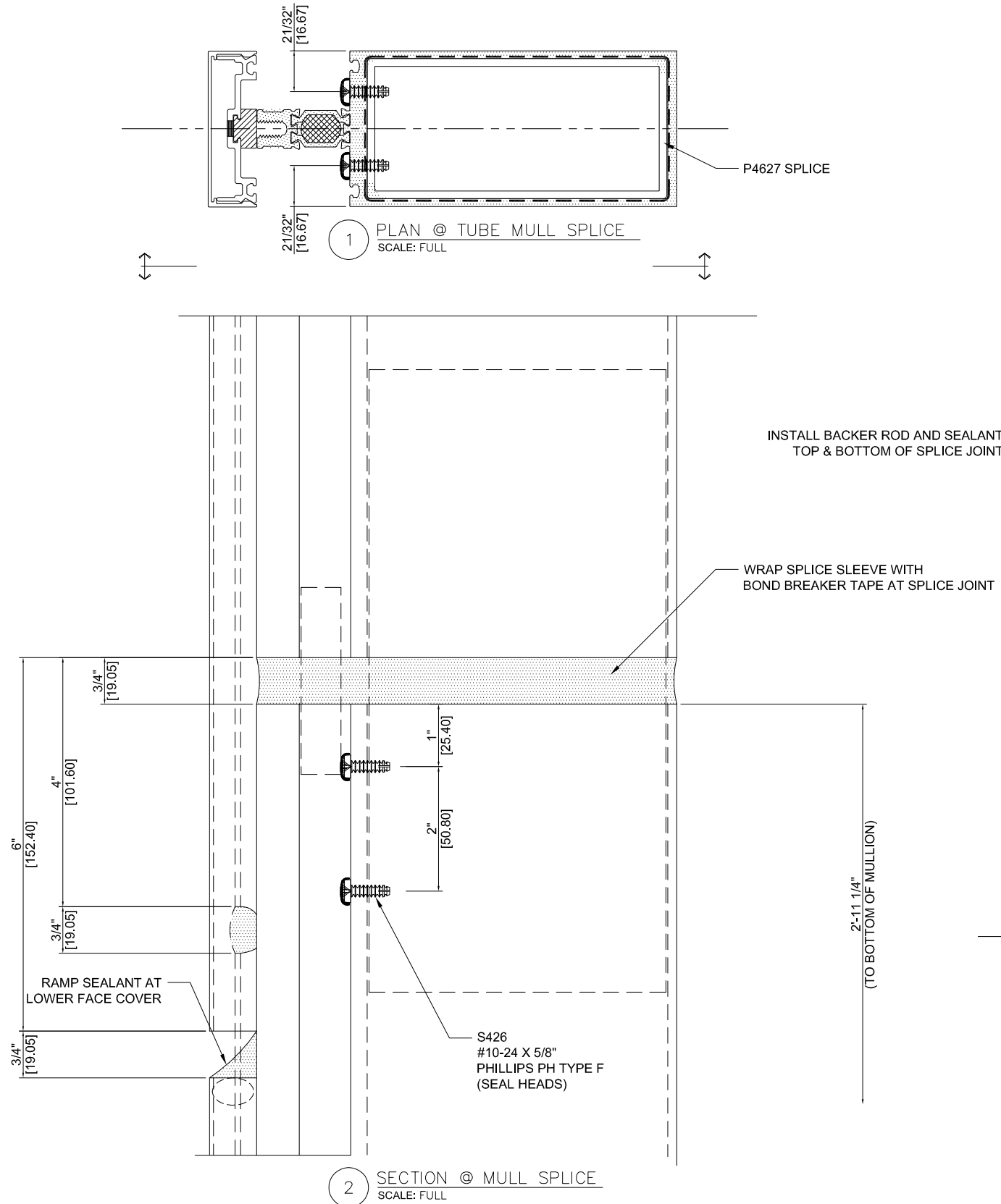
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REVISION HISTORY:

REV	DATE	DESCRIPTION	DRAWN
O	11.11.15	RELEASE TO TEST LAB	CDC
A	2.18.16	MODIFY FOR FPA	LT

DATE:	02.18.16
DRAWING NUMBER:	FPA-400TU-NI
DRAWN:	
FINAL REVIEW:	
SCALE:	N.T.S.
REVISION:	A
SHEET NAME:	ANCHORS IS CORNER & JAMB PLANS
SHEET:	D-3.4

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REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR FPA

DATE: 02.18.16

DRAWING NUMBER:
FPA-400TU-NI

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: A

SHEET NAME:

JOINERY
SPLICES

SHEET: D-4.0

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REVISION HISTORY:

REV	DATE	DESCRIPTION	DRAWN
O	11.11.15	RELEASE TO TEST LAB	CDC
A	2.18.16	MODIFY FOR FPA	LT

DATE: 02.18.16

DRAWING NUMBER:
FPA-400TU-NI

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: A

SHEET NAME:

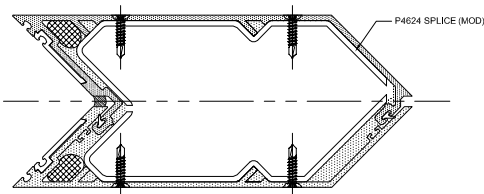
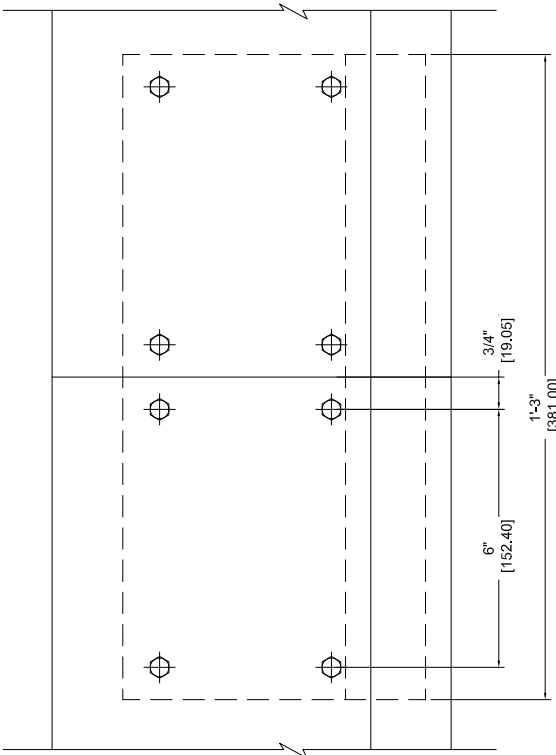
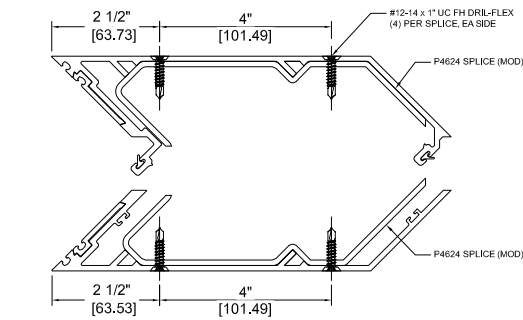
JOINERY
HARD SPLICES

SHEET: D-4.01

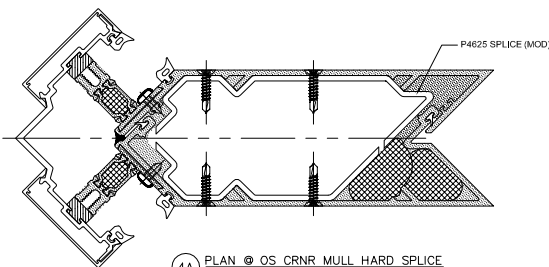
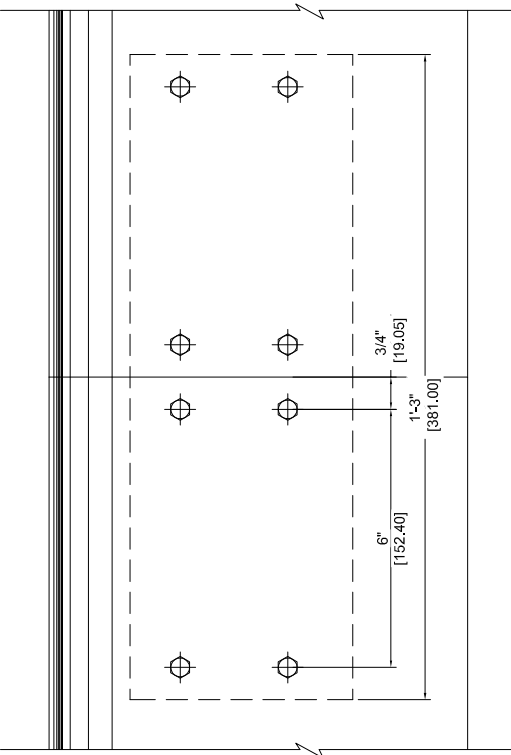
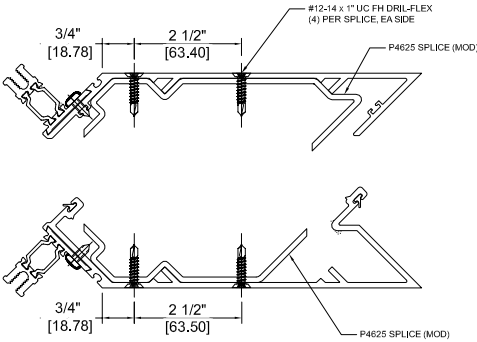


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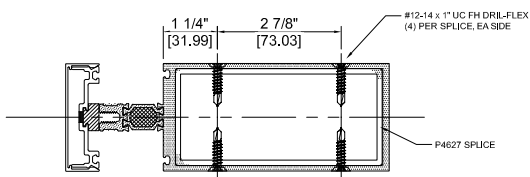
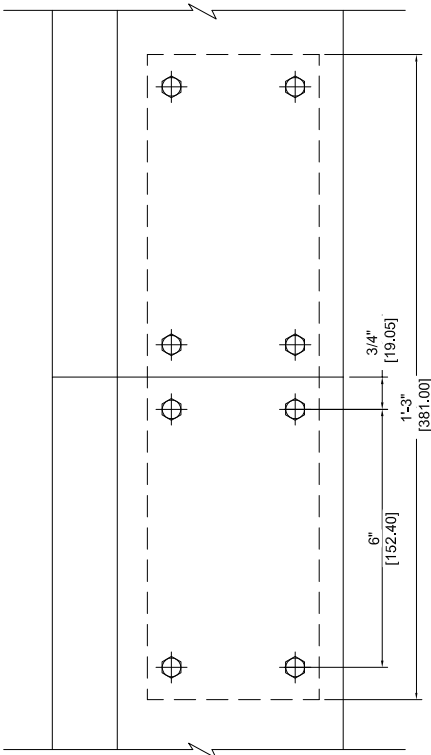
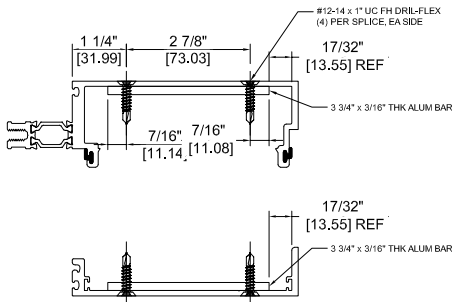
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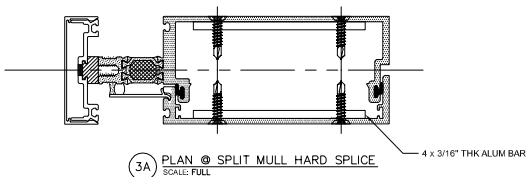
5A PLAN @ IS CRNR MULL HARD SPLICE
SCALE: FULL



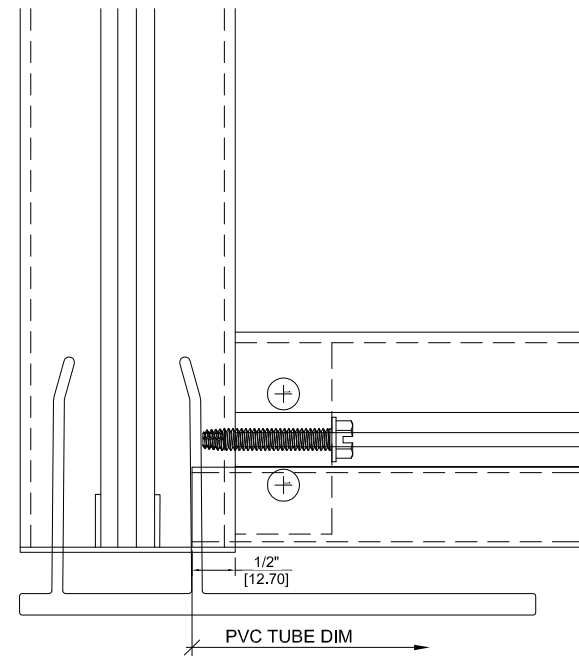
4A PLAN @ OS CRNR MULL HARD SPLICE
SCALE: FULL



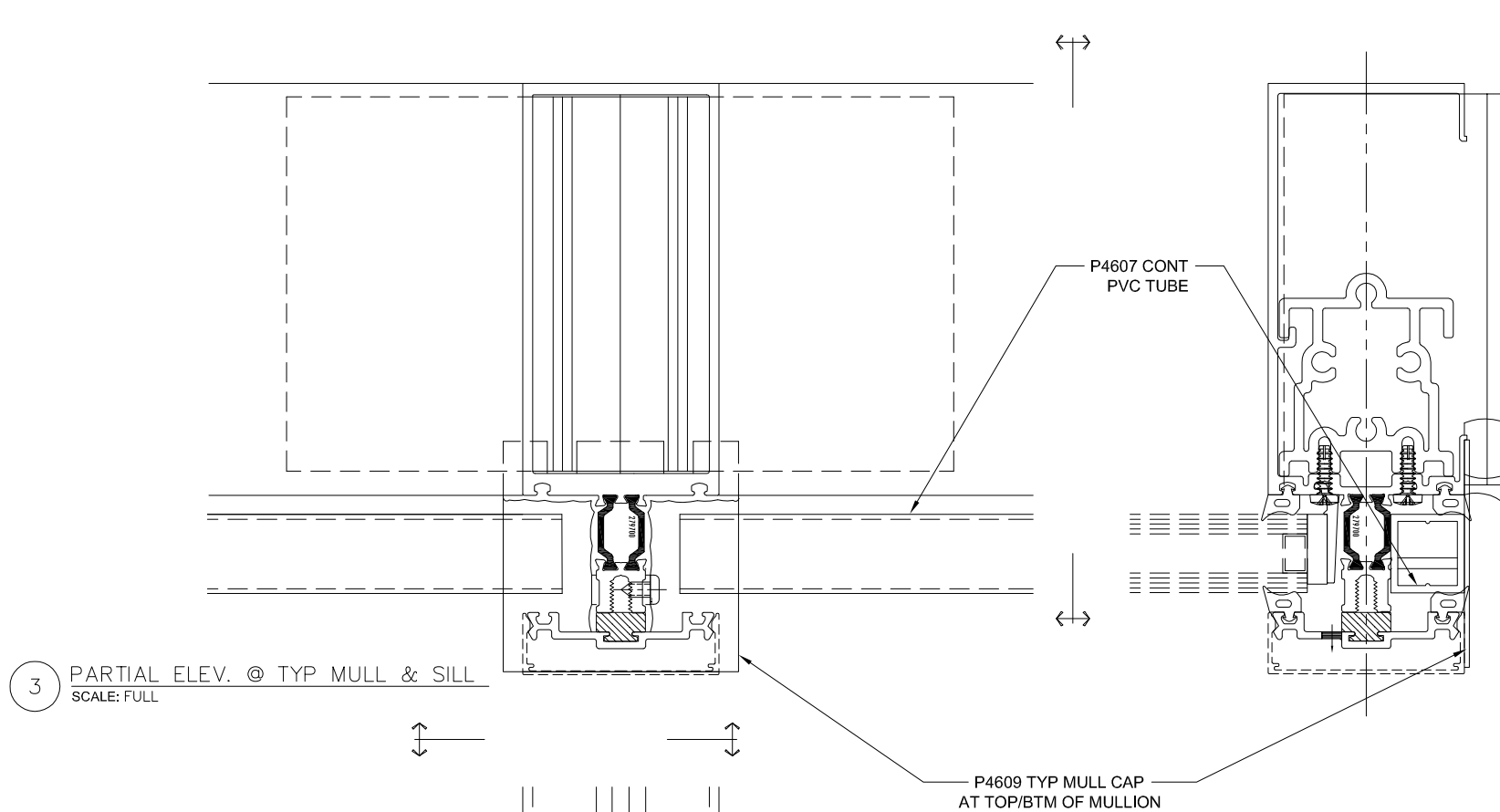
1A PLAN @ TUBE MULL HARD SPLICE
SCALE: FULL



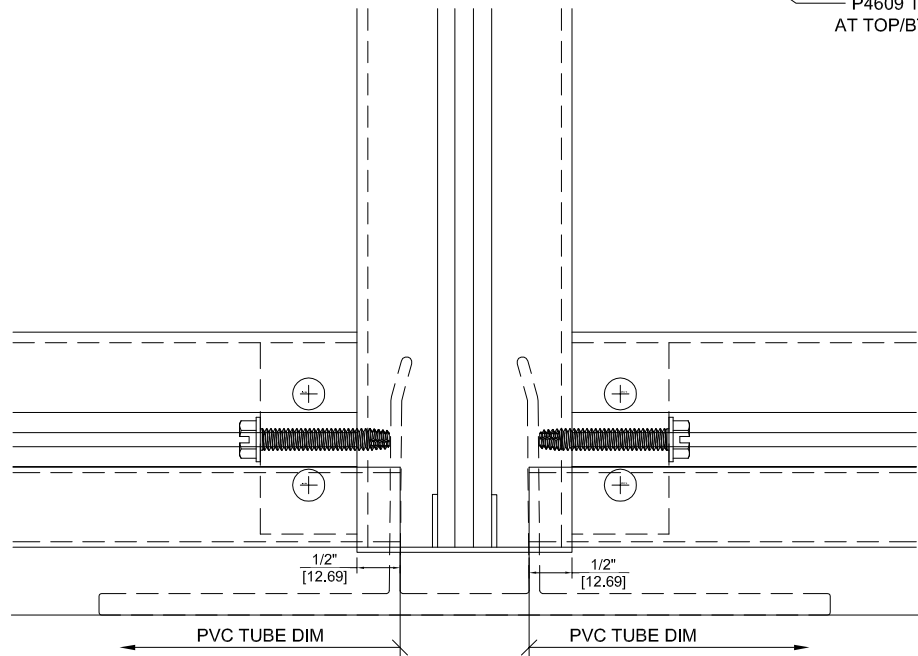
3A PLAN @ SPLIT MULL HARD SPLICE
SCALE: FULL



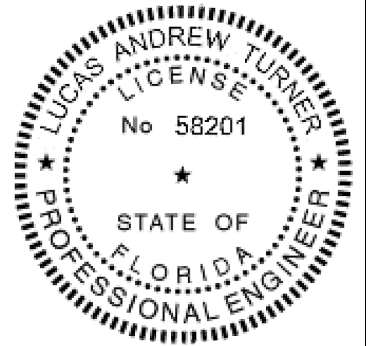
1 PARTIAL ELEV. OF JAMB @ SILL
SCALE: FULL



3 PARTIAL ELEV. @ TYP MULL & SILL
SCALE: FULL



2 PARTIAL ELEV. @ TYP MULL & SILL
SCALE: FULL



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REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR FPA

DATE: 02.18.16

DRAWING NUMBER:
FPA-400TU-NI

DRAWN:

FINAL REVIEW:

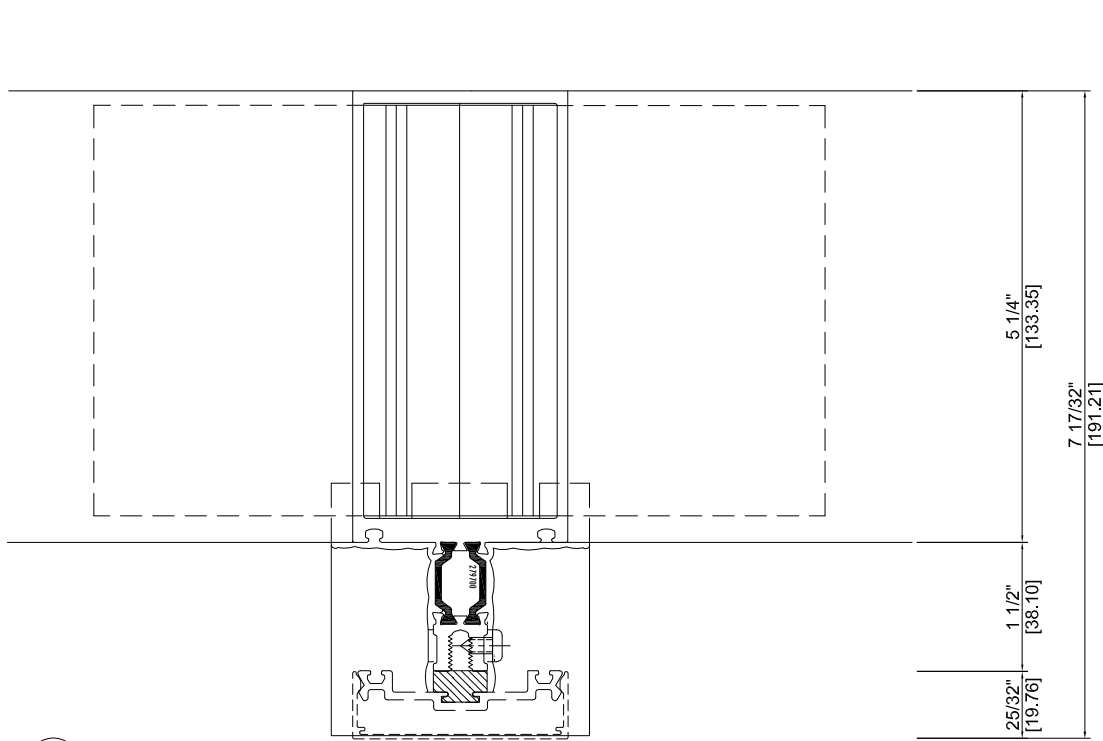
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REVISION: A

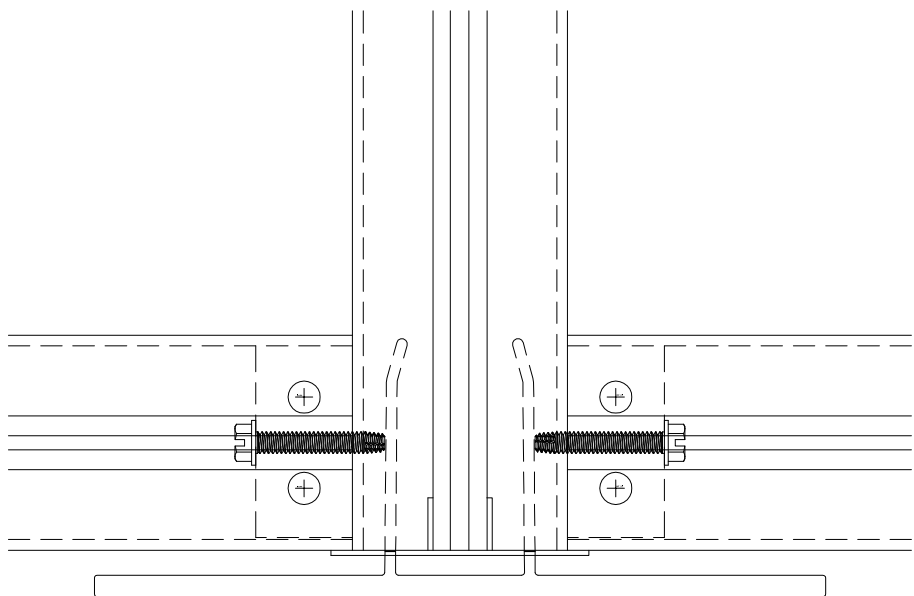
SHEET NAME:

JOINERY
AT SILL

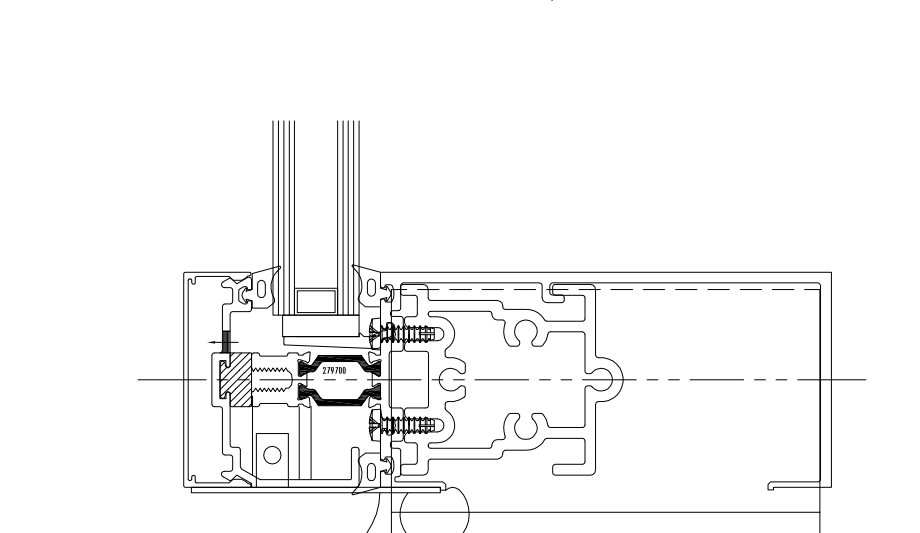
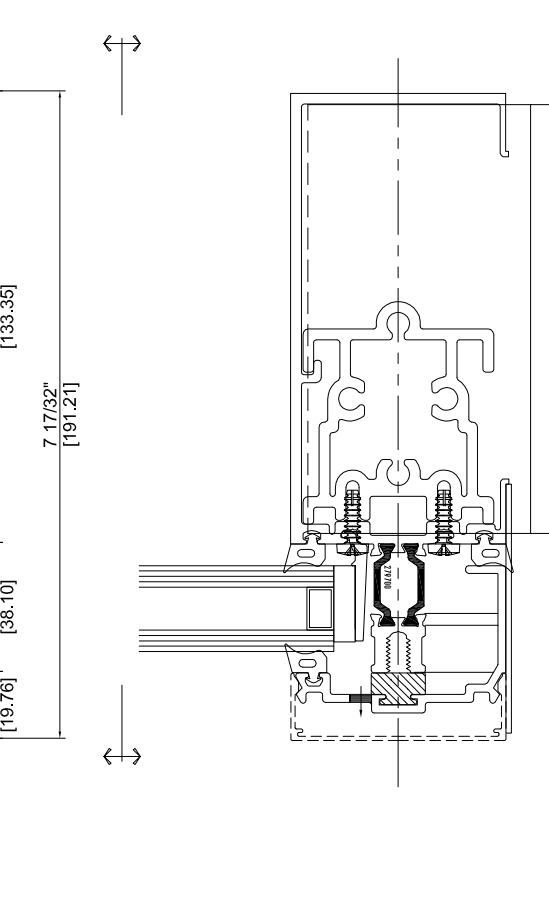
SHEET: D-4.1



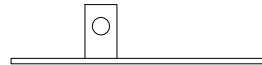
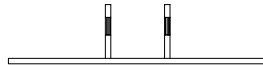
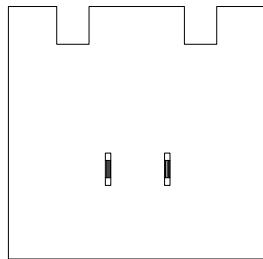
3 PLAN @ SILL - END CAP
SCALE: FULL



1 PARTIAL ELEV. OF TYP. MULL @ SILL - END CAP
SCALE: FULL



2 SECTION @ END CAP SILL
SCALE: FULL



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REV	DATE	DESCRIPTION	DRAWN	DATE	DESCRIPTION
0	11.11.15	RELEASE TO TEST LAB	CDC		
A	2.18.16	MODIFY FOR FPA	LT		

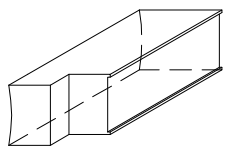
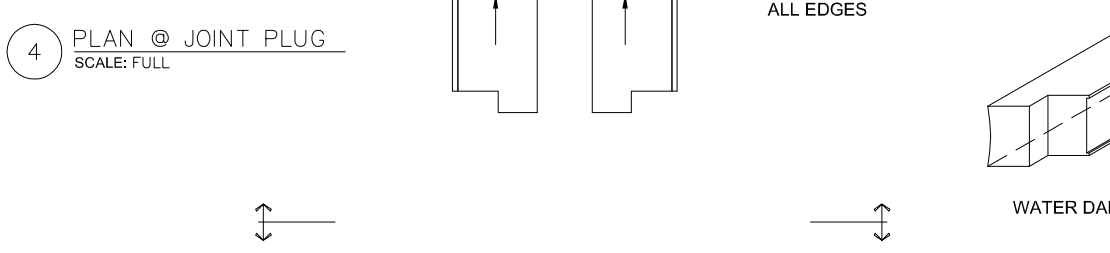
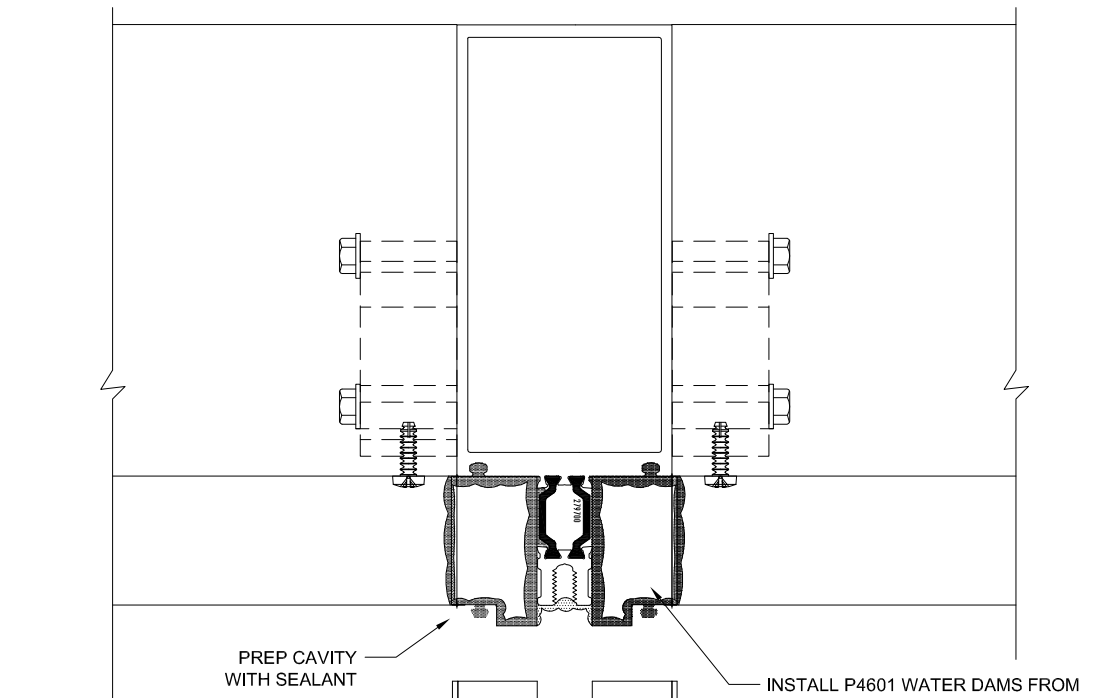
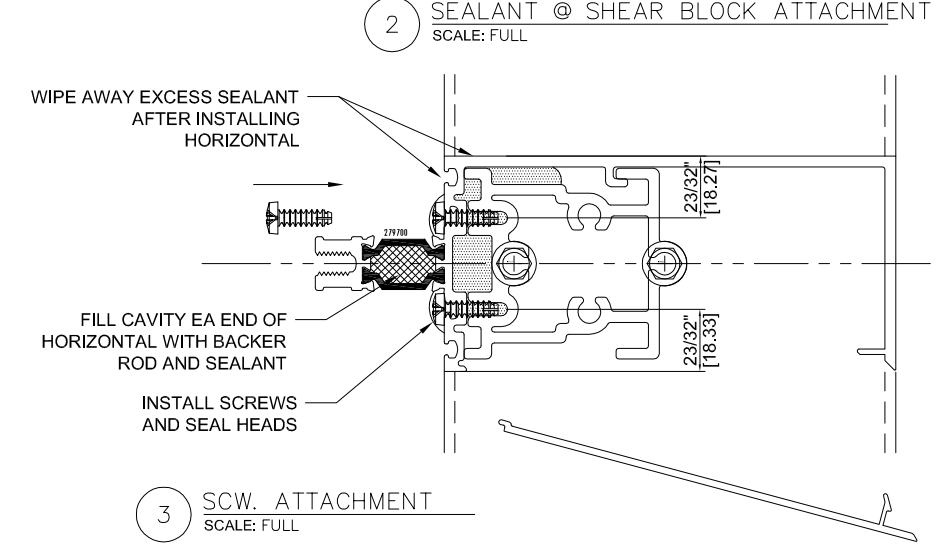
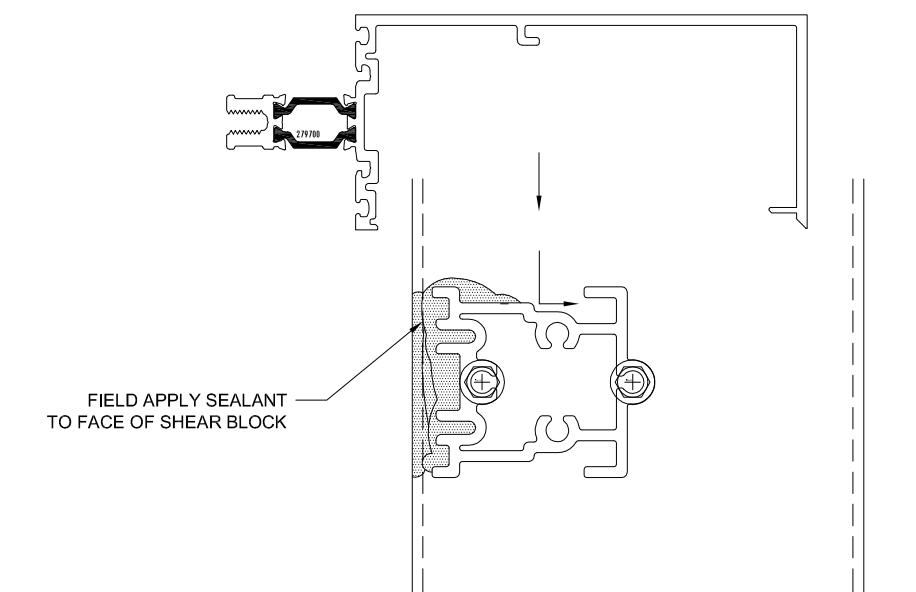
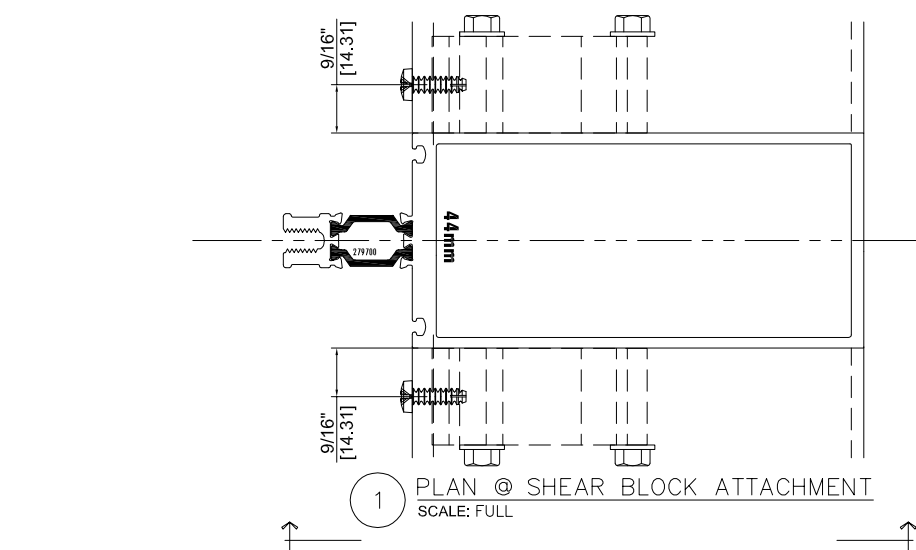
DATE: 02.18.16
DRAWING NUMBER: FPA-400TU-NI
DRAWN:
FINAL REVIEW:
SCALE: N.T.S.
REVISION: A
SHEET NAME: JOINERY END CAPS AT SILL
SHEET: D-4.2

TUBELITE
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CURTAIN WALL SYSTEM

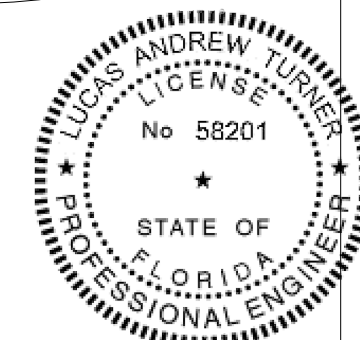
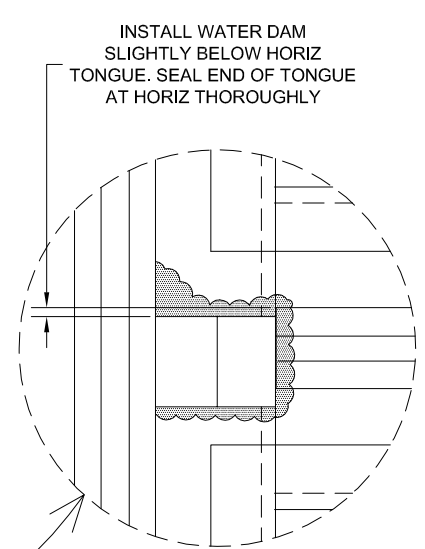
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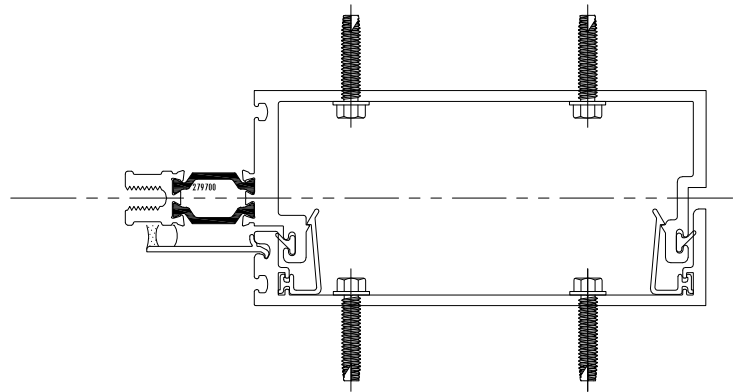
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REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR FPA
DATE:			02.18.16
DRAWING NUMBER:			FPA-400TU-NI
DRAWN:			
FINAL REVIEW:			
SCALE:			N.T.S.
REVISION:			A
SHEET NAME:			SEALANT ATTACHMENT JOINT PLUGS
SHEET:			D-4.3



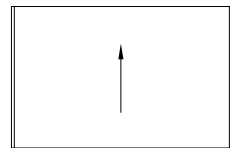
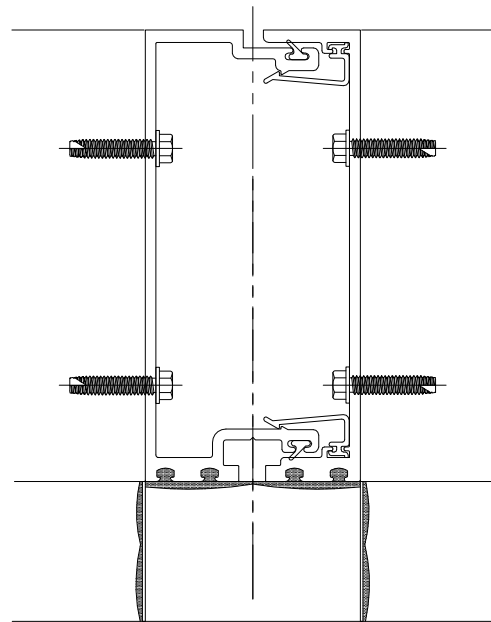
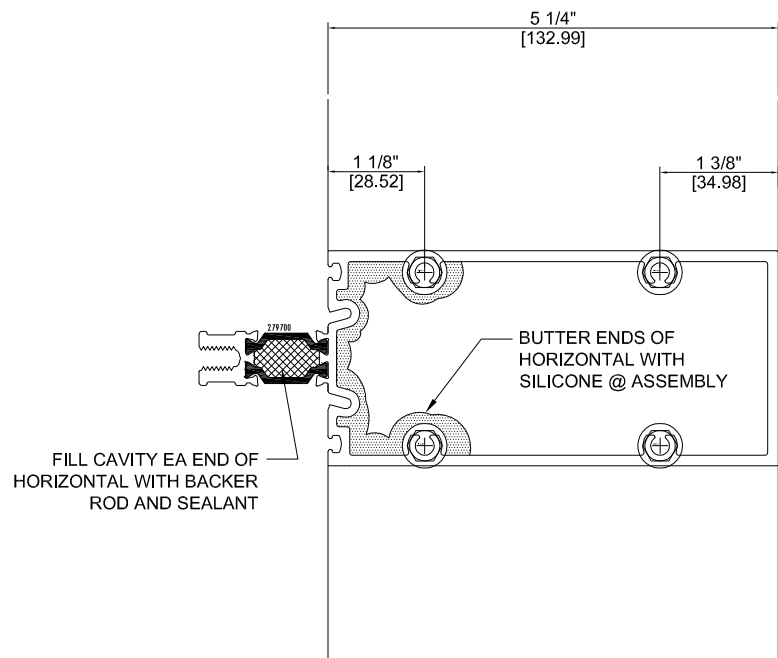
WATER DAM



22
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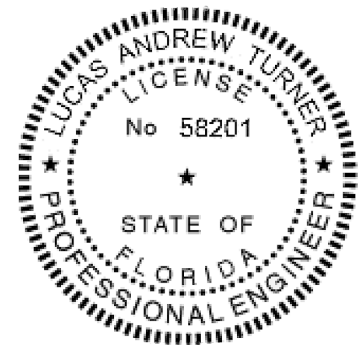
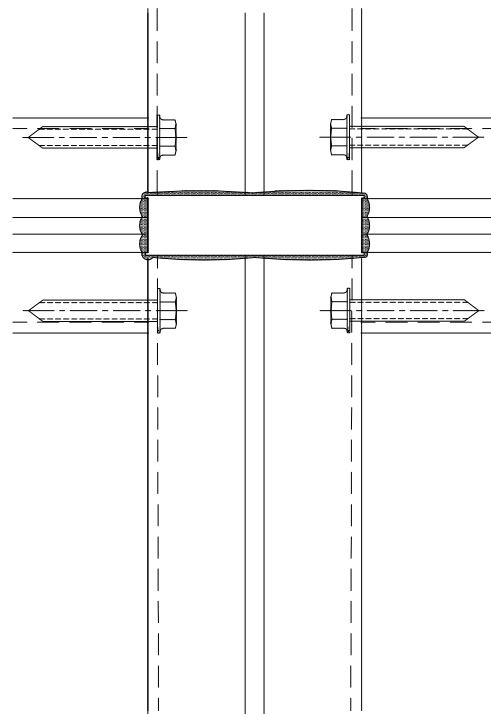


1 SEALANT @ SPLIT MULL / HORIZONTAL
SCALE: FULL



2 ADDITIONAL JOINT PLUGS
SCALE: FULL

P4602 SSG WATER DAM



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REVISION HISTORY:

REV	DATE	DESCRIPTION	DRAWN
O	11.11.15	RELEASE TO TEST LAB	CDC
A	2.18.16	MODIFY FOR FPA	LT

DATE: 02.18.16

DRAWING NUMBER: FPA-400TU-NI

DRAWN:

FINAL REVIEW:

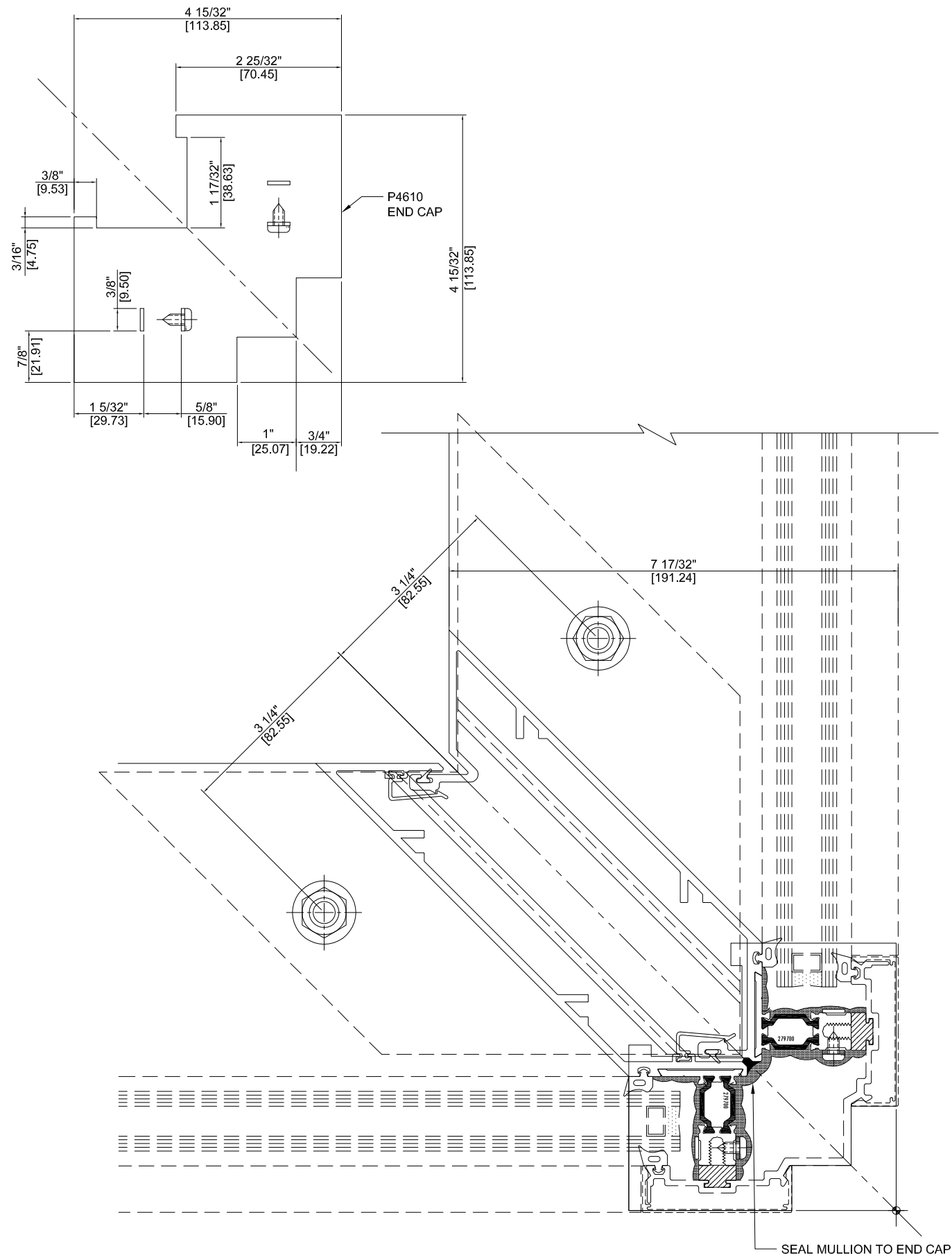
SCALE: N.T.S.

REVISION: A

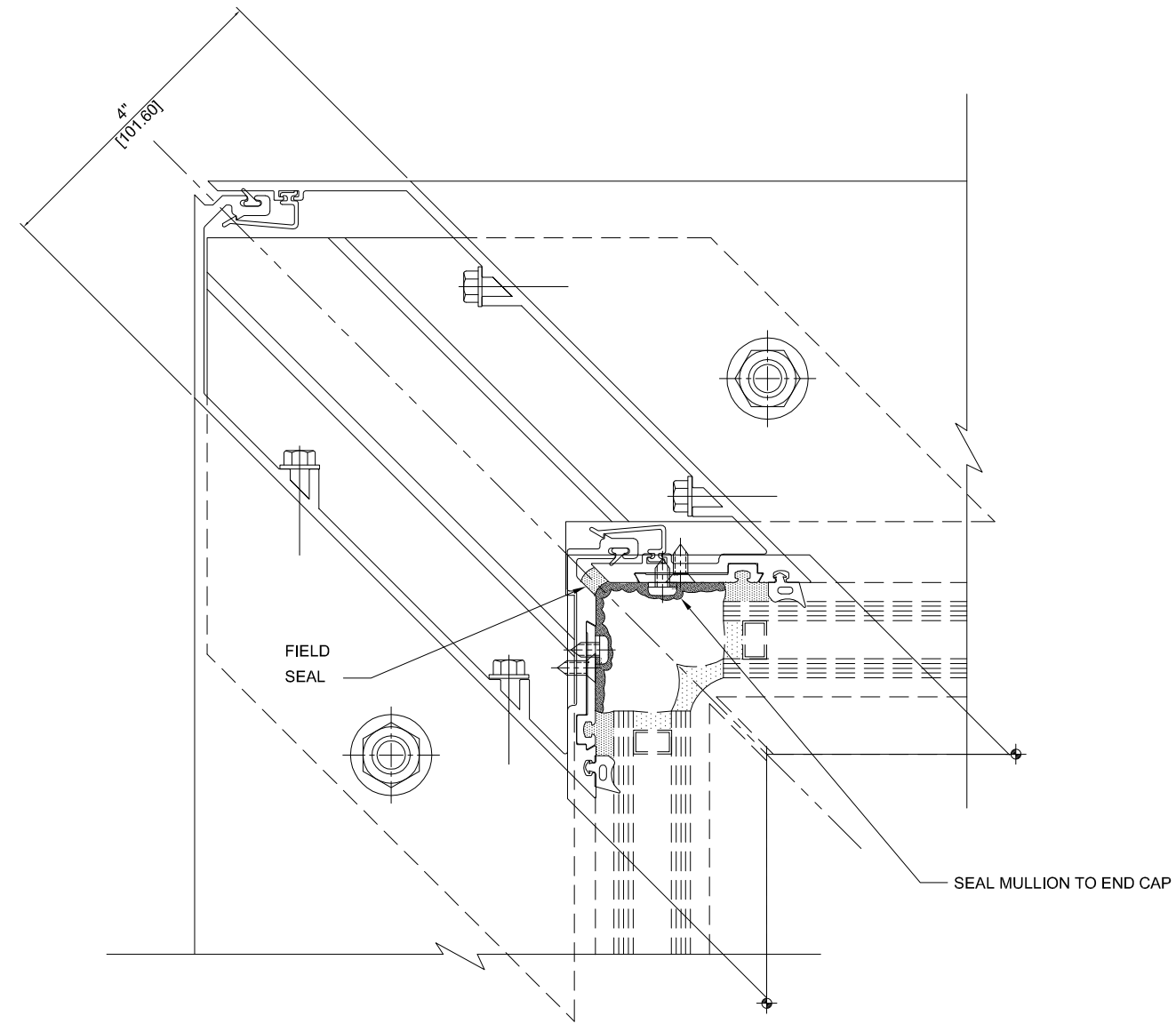
SHEET NAME:

SEALANT
HORIZ.
JOINT PLUG

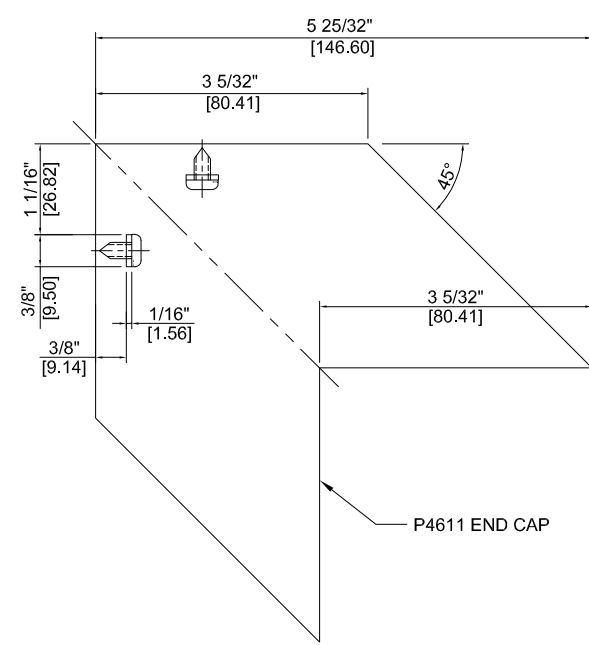
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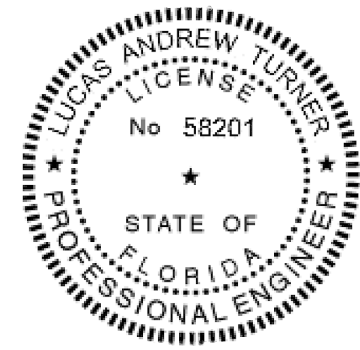
1 OS CORNER MULL - END CAP
SCALE: FULL



2 IS CORNER MULL @ END CAP
SCALE: FULL



P4611 END CAP



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REVISION HISTORY:

REV	DATE	DESCRIPTION	DRAWN
O	11.11.15	RELEASE TO TEST LAB	CDC
A	2.18.16	MODIFY FOR FPA	LT

DATE: 02.18.16

DRAWING NUMBER:
FPA-400TU-NI

DRAWN:

FINAL REVIEW:

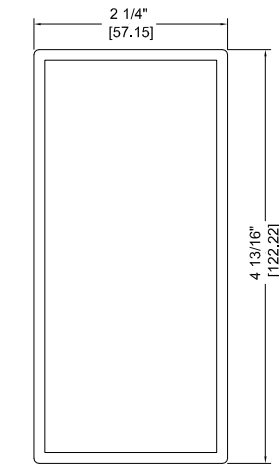
SCALE: N.T.S.

REVISION: A

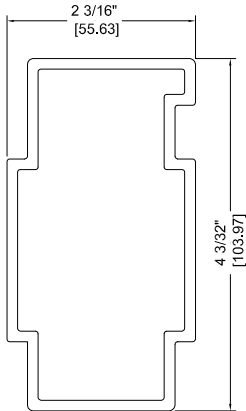
SHEET NAME:

SEALANT
CORNER MULL
END CAPS

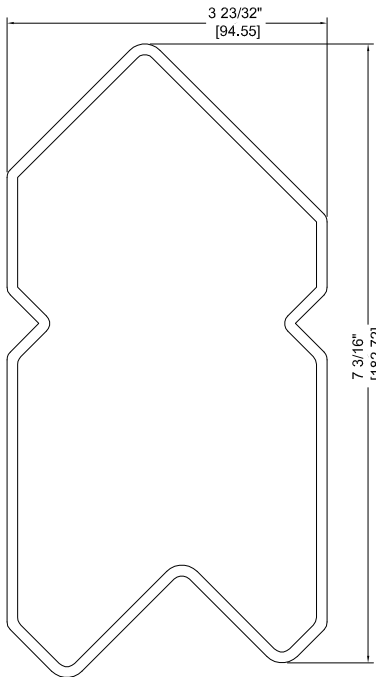
SHEET: D-4.5



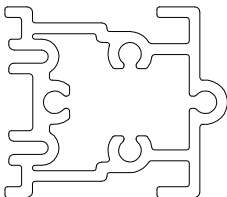
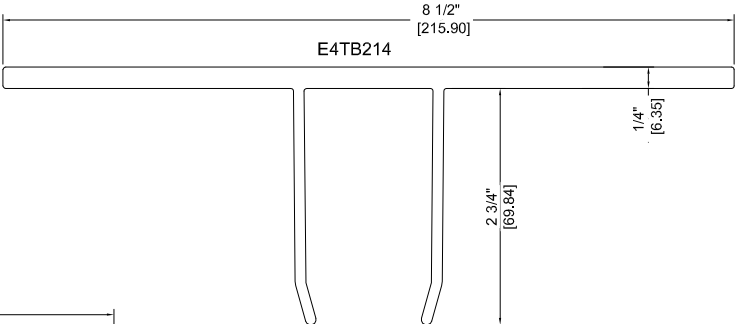
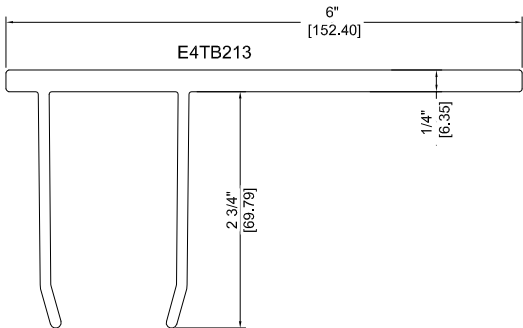
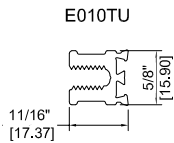
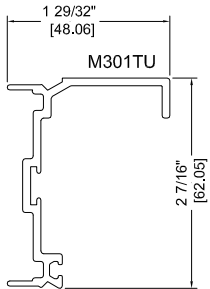
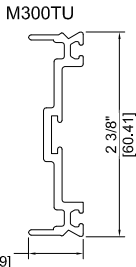
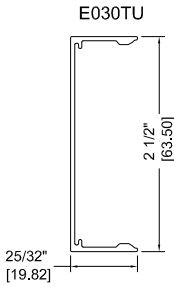
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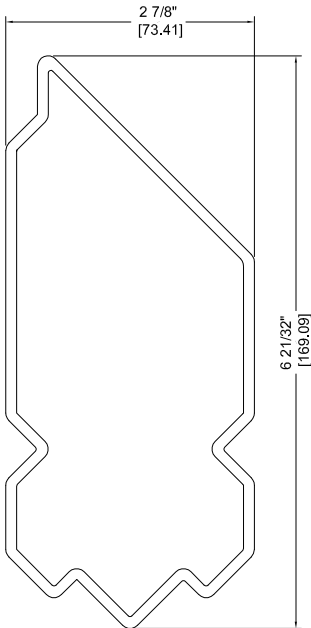
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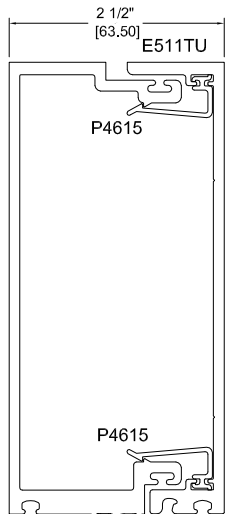
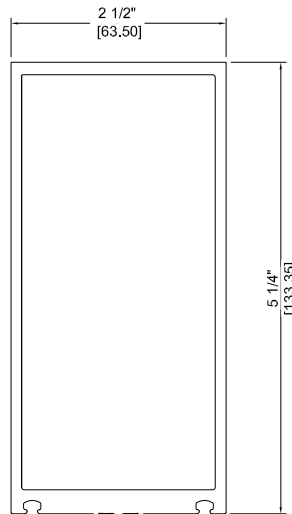
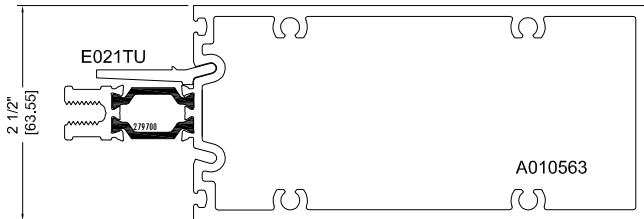
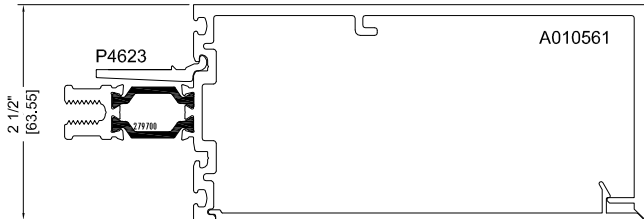
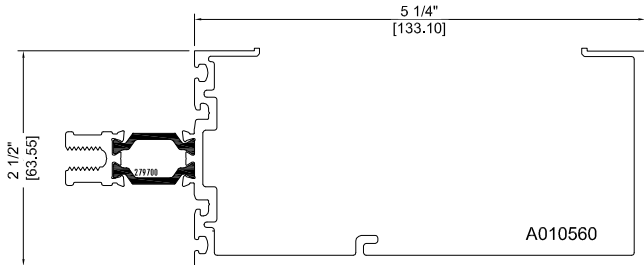
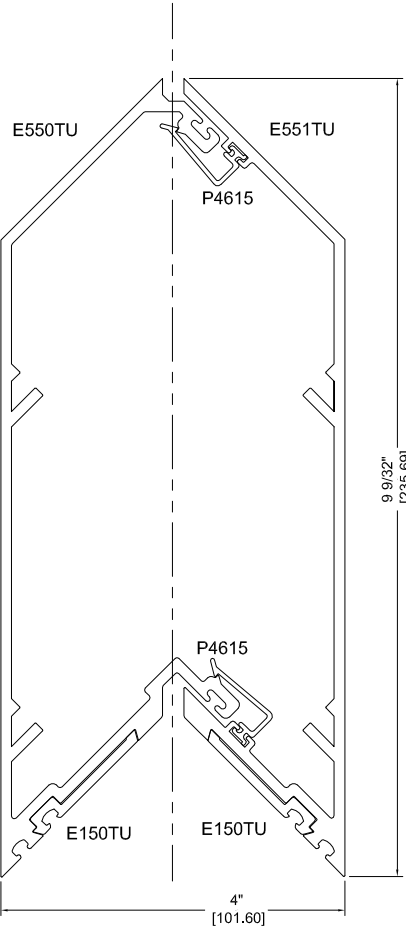
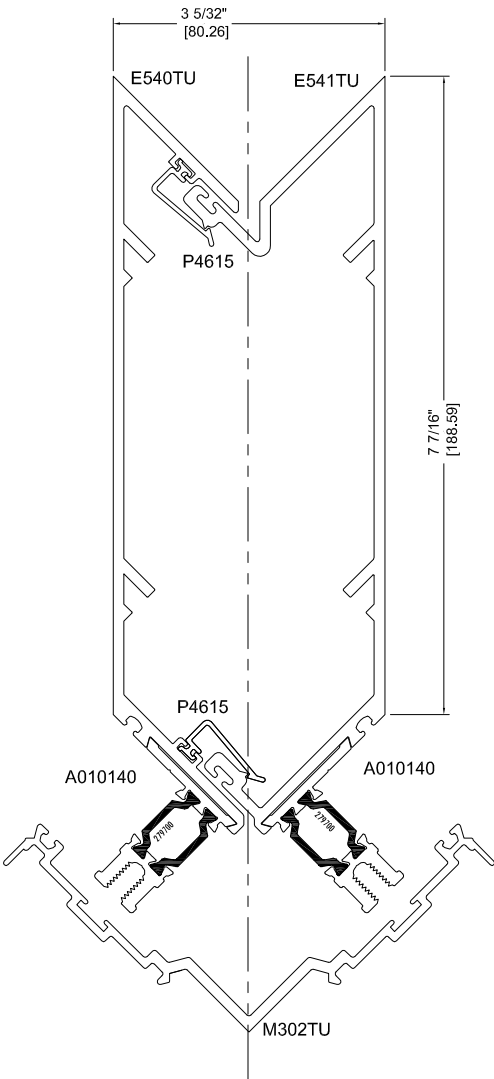
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LT
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REVISION HISTORY:

REV	DATE	DRAWN	DESCRIPTION
O	11.11.15	CDC	RELEASE TO TEST LAB
A	2.18.16	LT	MODIFY FOR FPA

DATE: 02.18.16

DRAWING NUMBER: FPA-400TU-NI

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: A

SHEET NAME: PROFILES

SHEET: P-1.0