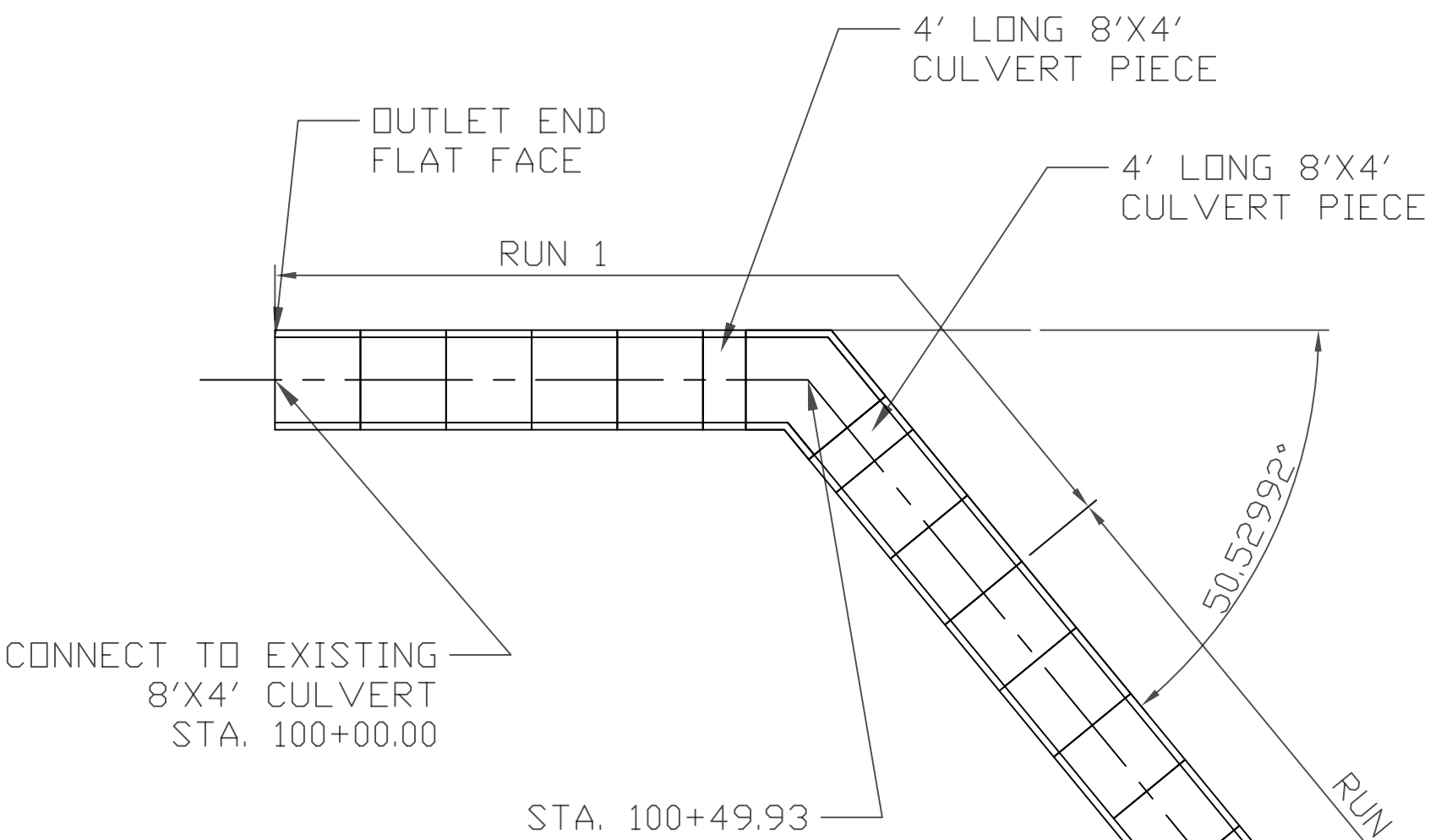
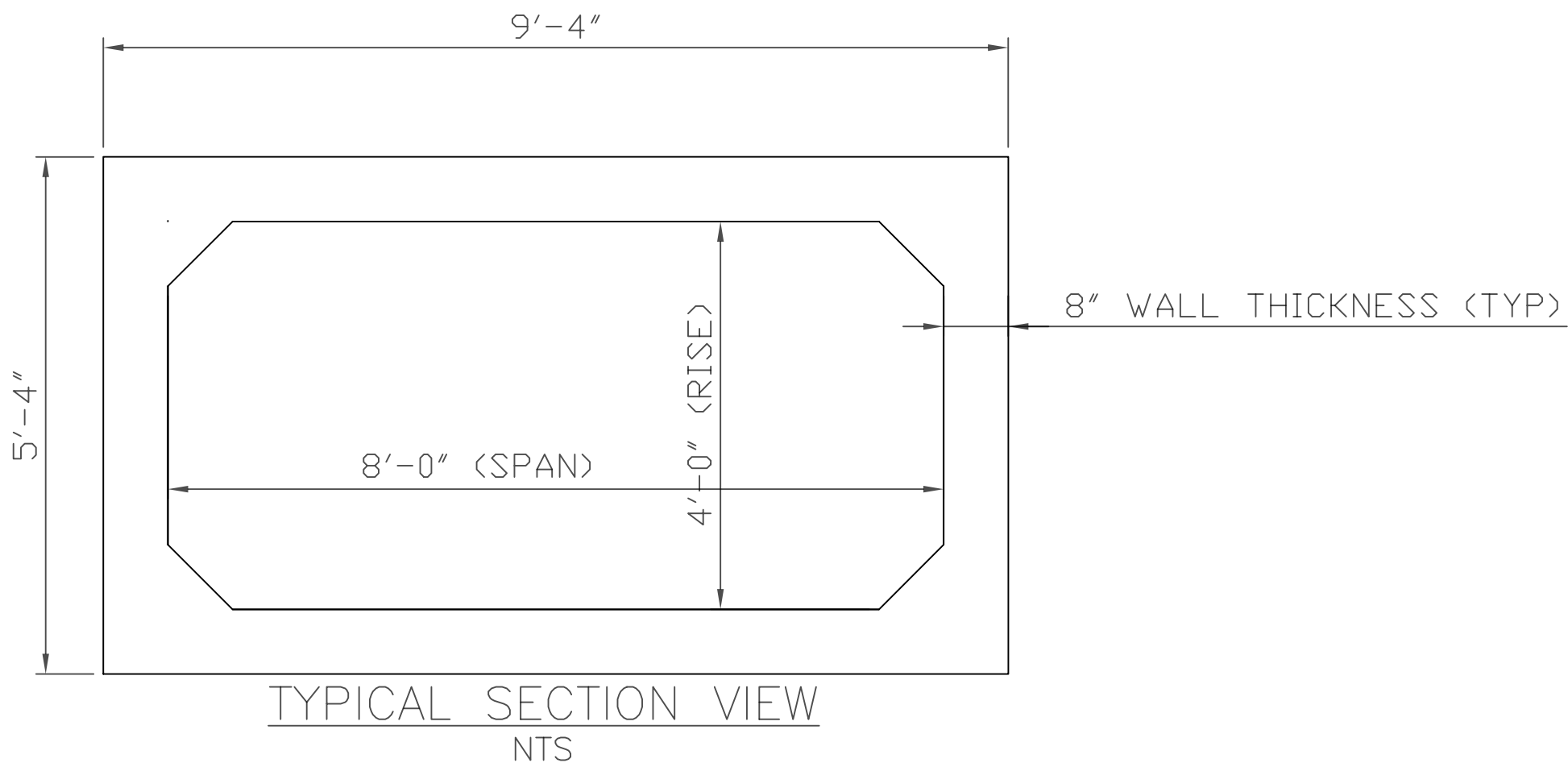
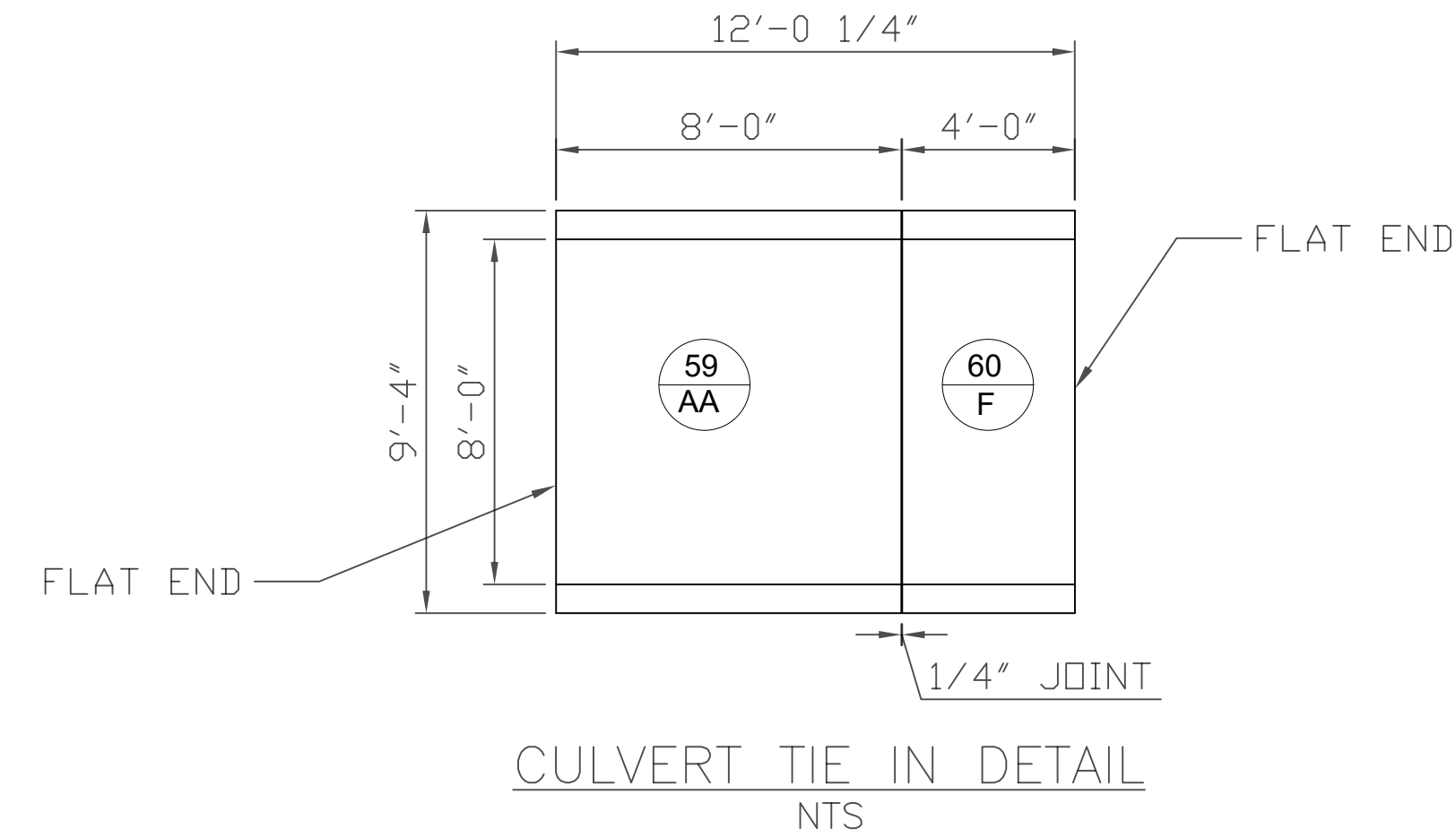




PIECE	NUMBER	WEIGHT (LB)
AA	2	21,300
A	52	21,300
B	2	10,650
C	1	31,000
D	1	35,000
E	1	21,000
F	1	10,650

ENCORE PROVIDED MATERIAL		
ITEM	SIZE	QUANTITY
CONSEAL	1" DIA	186 ROLLS
JOINT WRAP	12" WIDE	30 ROLLS
CLUTCHES	4 TON	4
CLUTCHES / PULLING IRONS	NA	NA
SHIMS	1/8" X 4" X 4"	NA
CONCRETE WASHERS	NA	NA
DOWELS	#6	NA
COME-ALONGS	NA	NA
TWO PART EPOXY	NA	NA



MARK	IN ² /FT
As1	0.26
As2	0.28
As3	0.29
As4	0.19

M = 45"

GENERAL NOTES

- DESIGN SPECIFICATIONS: THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH:
 - THE ODOT "CONSTRUCTION AND MATERIAL SPECIFICATIONS" DATED JANUARY 1, 2013 -SECTION 706.05 THE ODOT "BRIDGE DESIGN MANUAL", 2004
 - ASTM C1577
- MATERIAL PROPERTIES:
 - CONCRETE: $f'_c = 5,000$ PSI (SEE CMS 706.050 FOR ADDITIONAL REQUIREMENTS) MIN. RELEASE STRENGTH $f'_{ci} = 3,000$ PSI PROVIDE AIR-ENTRAINING ADMIXTURE ACCORDING TO 706.05-9.1
 - NO CNI SHALL BE USED IN CONCRETE MIX DESIGN.
 - REINFORCING STEEL MESH: $F_y = 65,000$ PSI NON-EPOXY.
- DESIGN COVER: 10'-0"
- ALL LAY LENGTHS FOR STRAIGHT CULVERT PIECES SHALL BE 8' UNLESS OTHERWISE STATED.

SHOP DRAWING/SUBMITTAL

() Approved (x) Approved w/Changes Noted

() Revise & Resubmit () Rejected

This review is only for conformance with the information given and the design concept of the Project as expressed in the project plans. Review and approval of submittals are not conducted for the purpose of determining the accuracy and completeness of other details, such as dimensions and quantities, or for substantiating instructions for the installation or performance of equipment or systems, all of which remain the responsibility of the contractor. This review of the Contractor's submittals shall not relieve the Contractor from any obligation contained in the project plans. This review shall not constitute approval of any construction means, methods, technique sequences, or any safety precautions or procedures. The review of a specific item does not indicate approval of an assembly of which the item is a component.

By: Mork Lachniet Date: 09/20/16

Bayer & Becker, Inc.

Note: See individual sheets for mark ups. Connection into existing box culverts to be per connection details on C4-3, or as approved by the county inspector.

LAYOUT

KEEFE PROPERTY SP-PUD TRACTS 2&3
WEST CHESTER, OH
4 - SIDED PRECAST BOX
SPAN 8' X RISE 4'

PRECAST MANUFACTURER: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678	PRECAST DESIGN: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678
--	--

DESIGNED BY: MIKE KRISMER

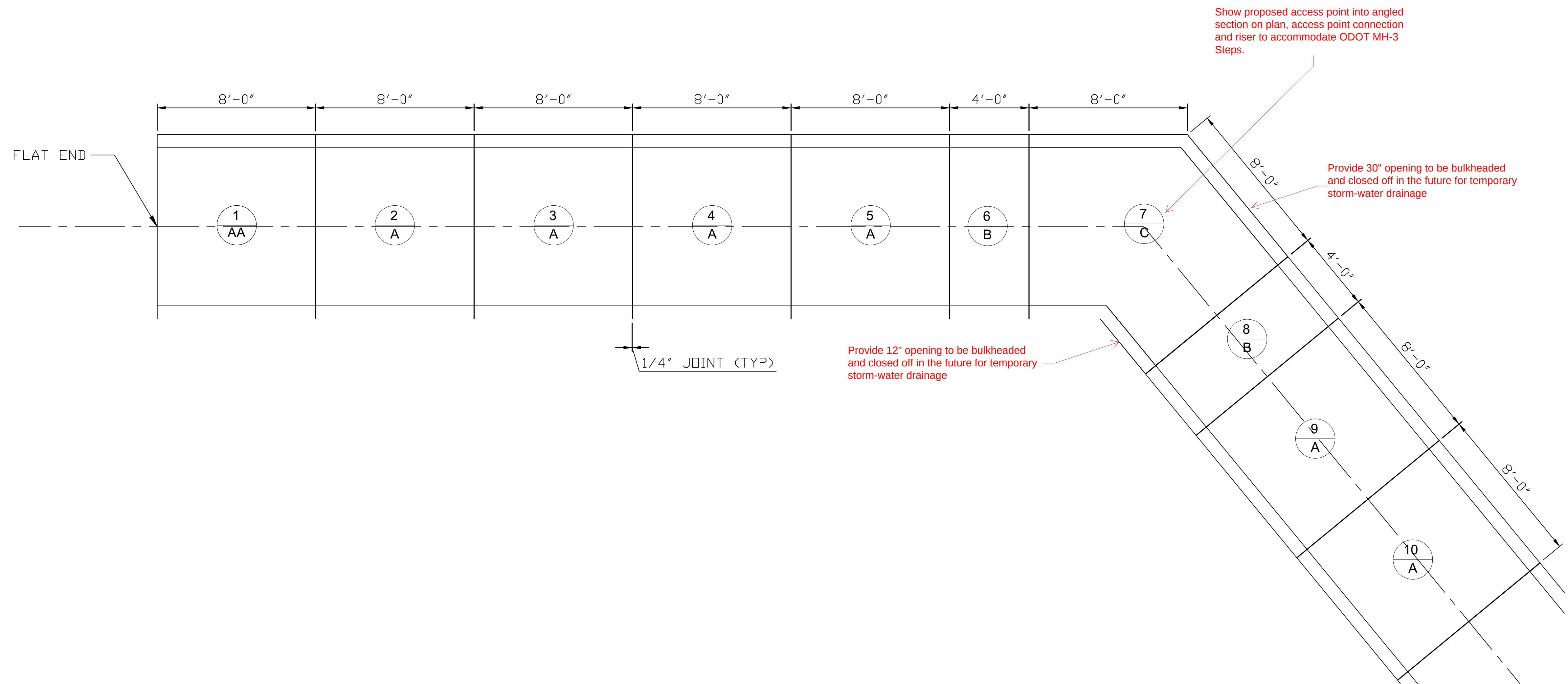
DRAWN BY: MIKE KRISMER

CHECKED BY:

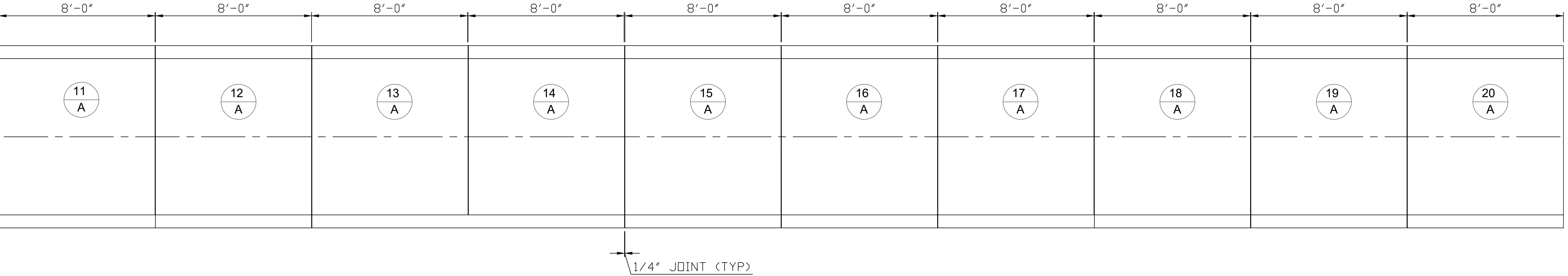
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DATE:

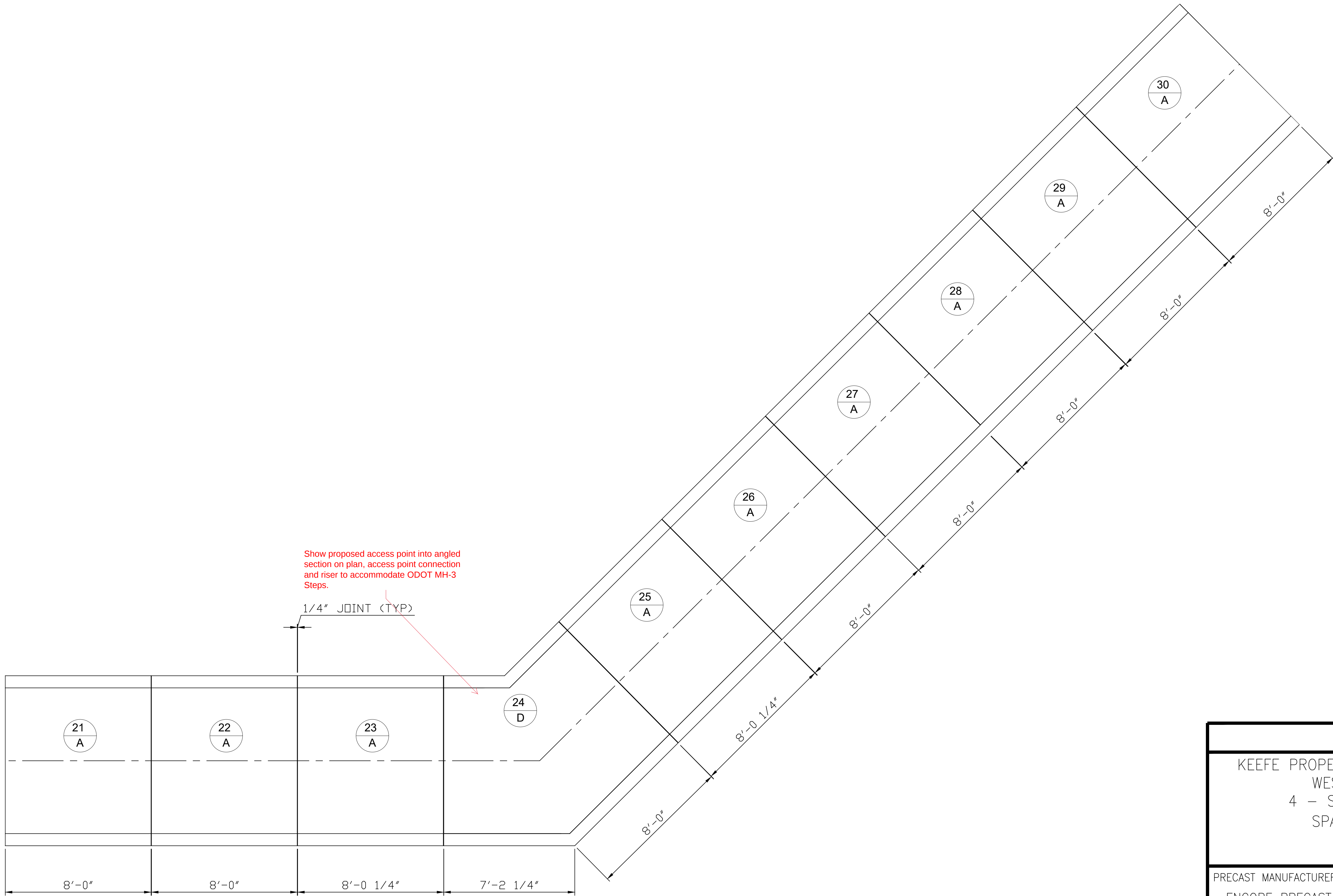
SHEET 1 OF 10



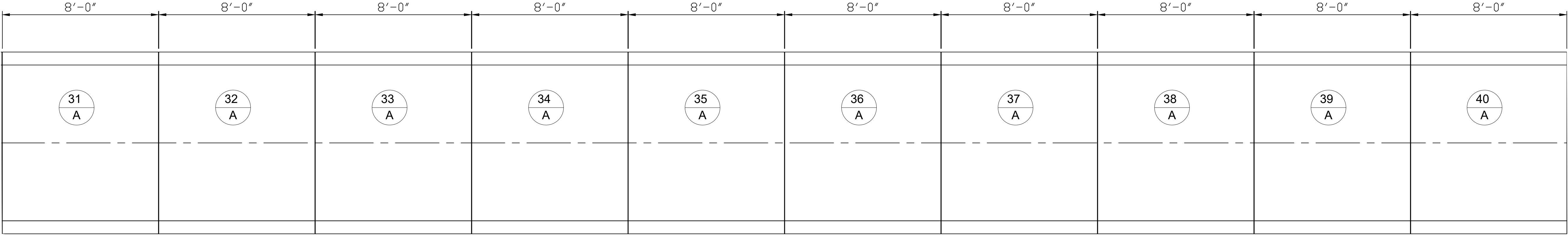
RUN 1	
KEEFE PROPERTY SP-PUD TRACTS 2&3 WEST CHESTER, OH 4 - SIDED PRECAST BOX SPAN 8' X RISE 4'	
PRECAST MANUFACTURER: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678	PRECAST DESIGN: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678
DESIGNED BY: MIKE KRISMER	
DRAWN BY: MIKE KRISMER	
CHECKED BY:	
REVIEWED BY:	
DATE:	SHEET 3 OF 10



RUN 2	
KEEFE PROPERTY SP-PUD TRACTS 2&3 WEST CHESTER, OH 4 - SIDED PRECAST BOX SPAN 8' X RISE 4'	
PRECAST MANUFACTURER: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678	PRECAST DESIGN: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678
DESIGNED BY: MIKE KRISMER	
DRAWN BY: MIKE KRISMER	
CHECKED BY:	
REVIEWED BY:	
DATE:	SHEET 4 OF 10

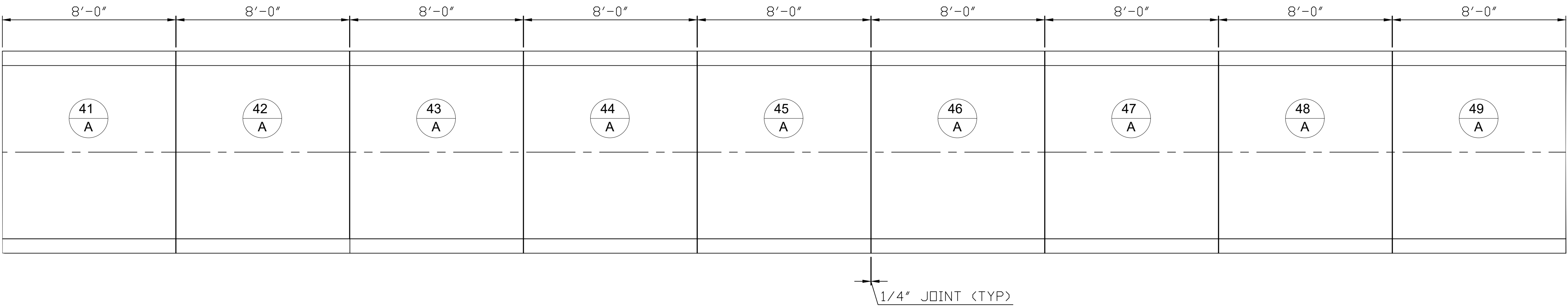


RUN 3	
KEEFE PROPERTY SP-PUD TRACTS 2&3 WEST CHESTER, OH 4 - SIDED PRECAST BOX SPAN 8' X RISE 4'	
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DESIGNED BY: MIKE KRISMER	
DRAWN BY: MIKE KRISMER	
CHECKED BY:	
REVIEWED BY:	
DATE:	SHEET 5 OF 10

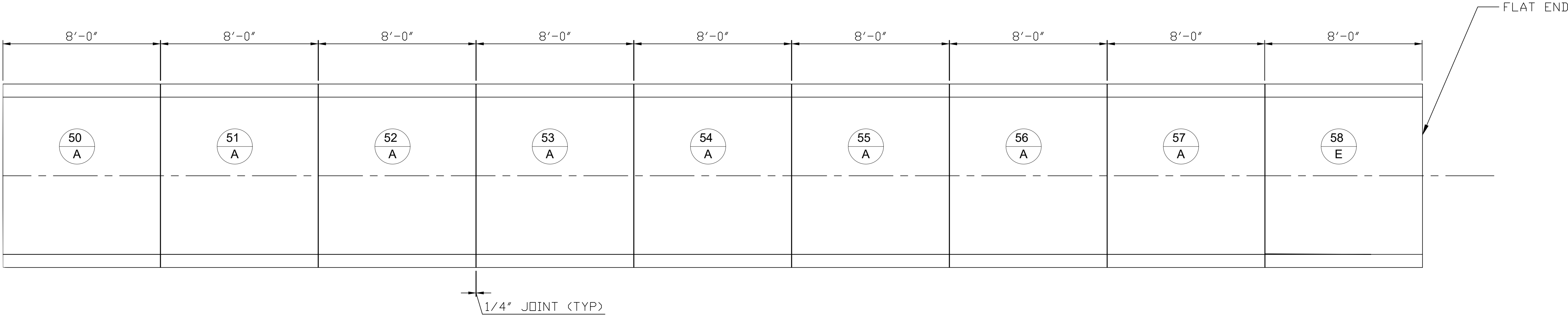


1/4" JOINT (TYP)

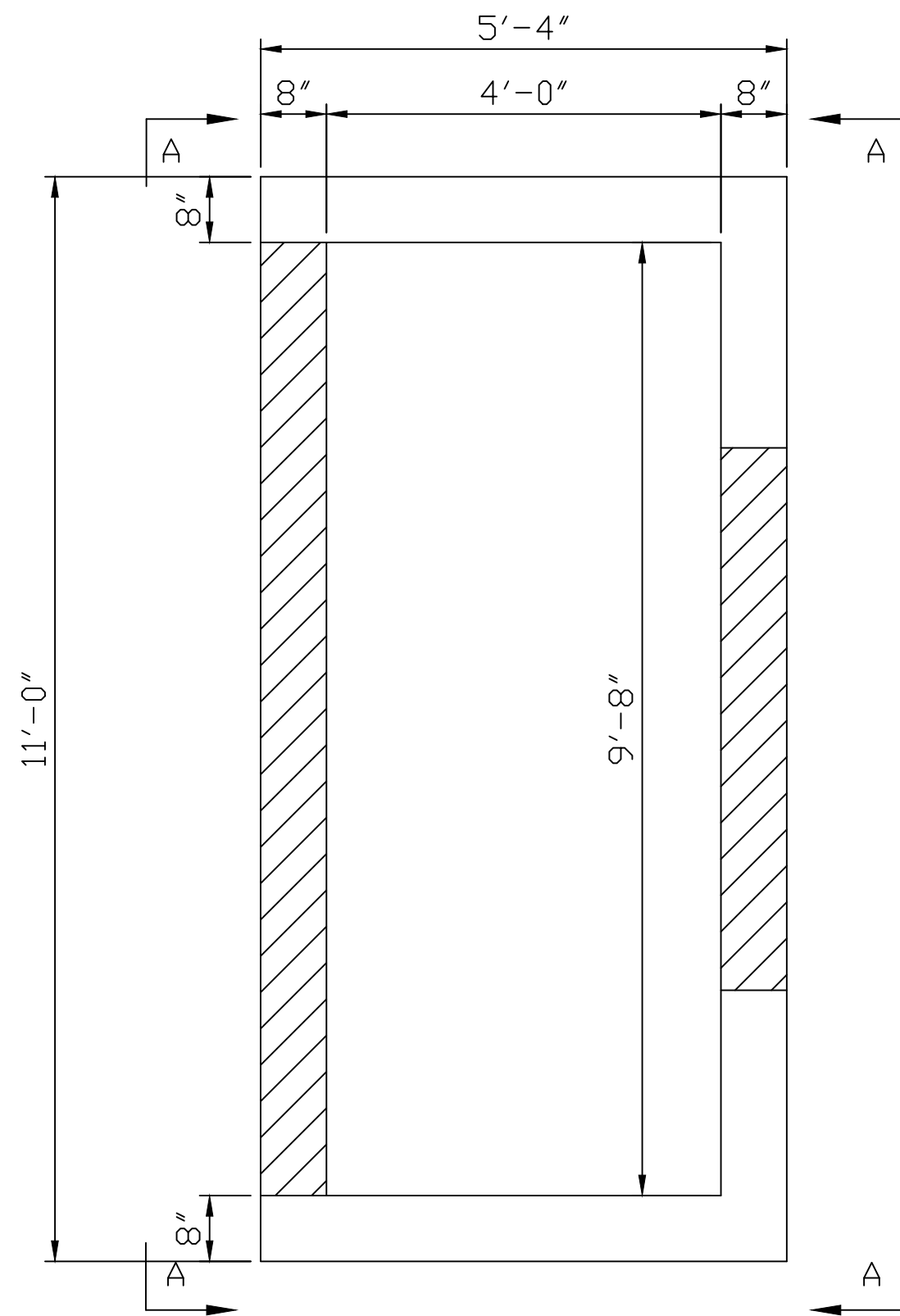
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DESIGNED BY: MIKE KRISMER	
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CHECKED BY:	
REVIEWED BY:	
DATE:	SHEET 6 OF 10



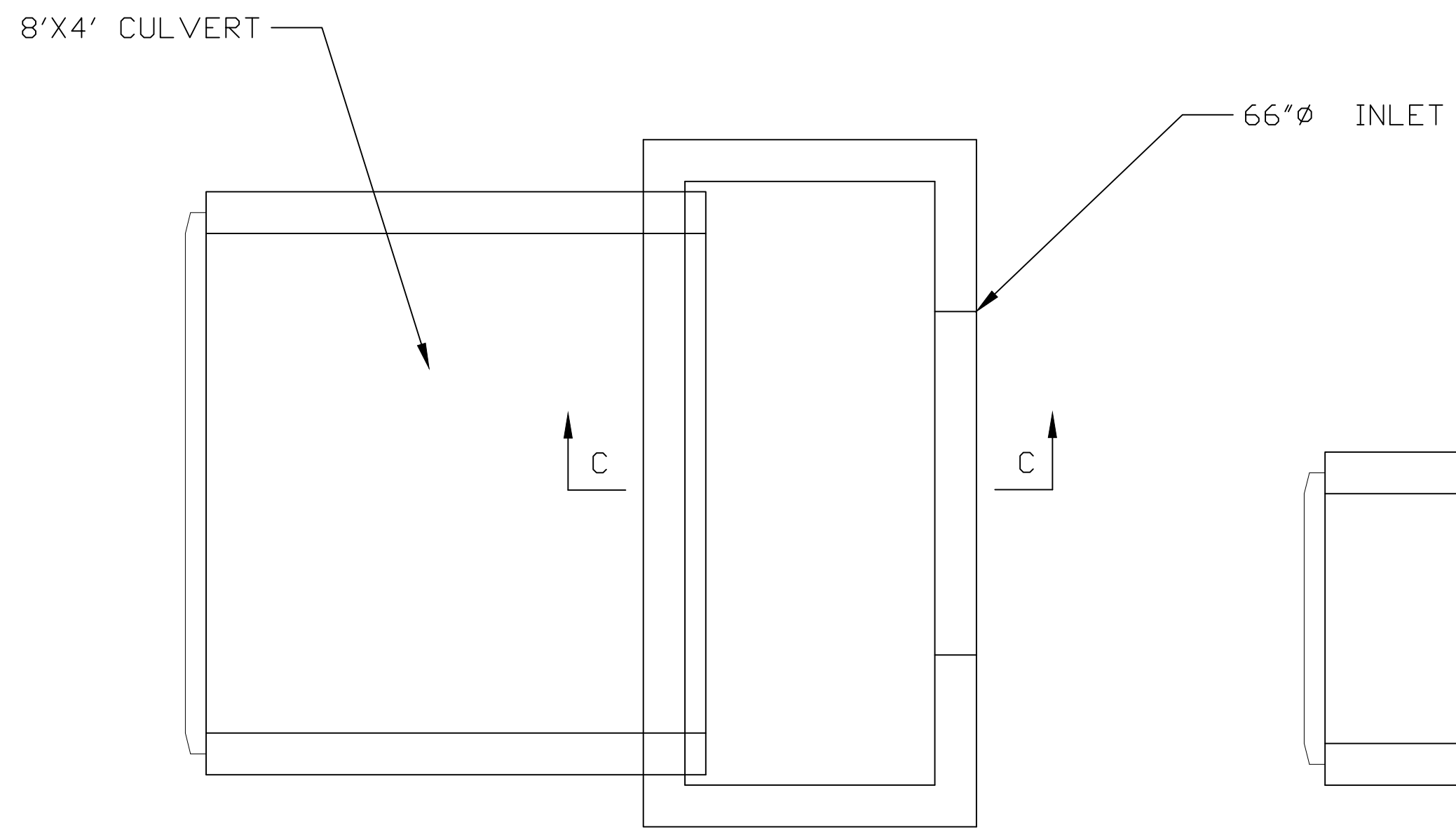
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DESIGNED BY: MIKE KRISMER	
DRAWN BY: MIKE KRISMER	
CHECKED BY:	
REVIEWED BY:	
DATE:	SHEET 7 OF 10



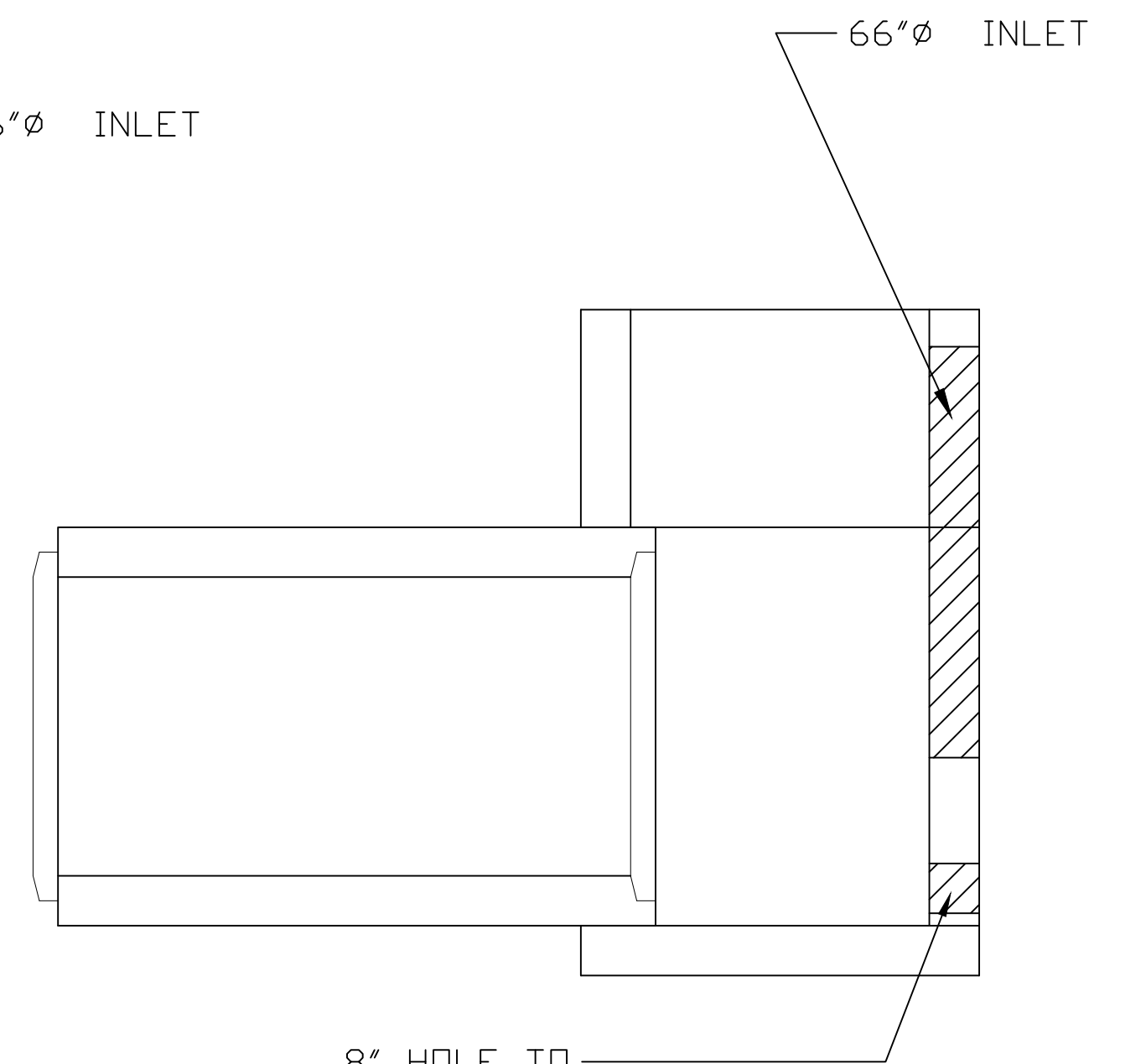
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PRECAST MANUFACTURER: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678	PRECAST DESIGN: ENCORE PRECAST LLC. 416 WEST RITTER STREET PO BOX 380 SEVEN MILE, OHIO 45062 (513)-726-5678
DESIGNED BY: MIKE KRISMER	
DRAWN BY: MIKE KRISMER	
CHECKED BY:	
REVIEWED BY:	
DATE:	SHEET 8 OF 10



PLAN VIEW
(OUTLET CONTROL STR)

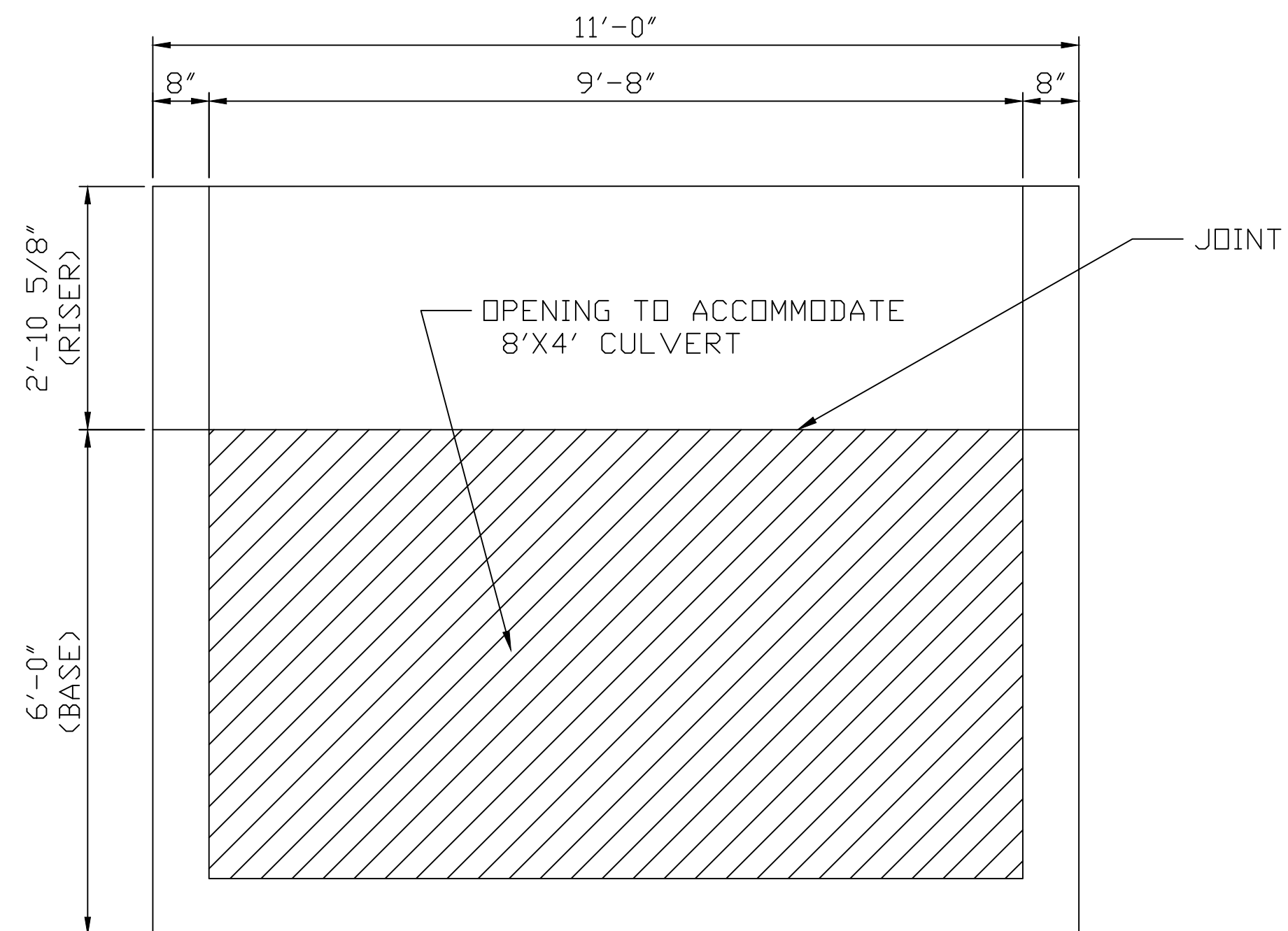


INSTALLATION CONCEPT
(OUTLET CONTROL STR)

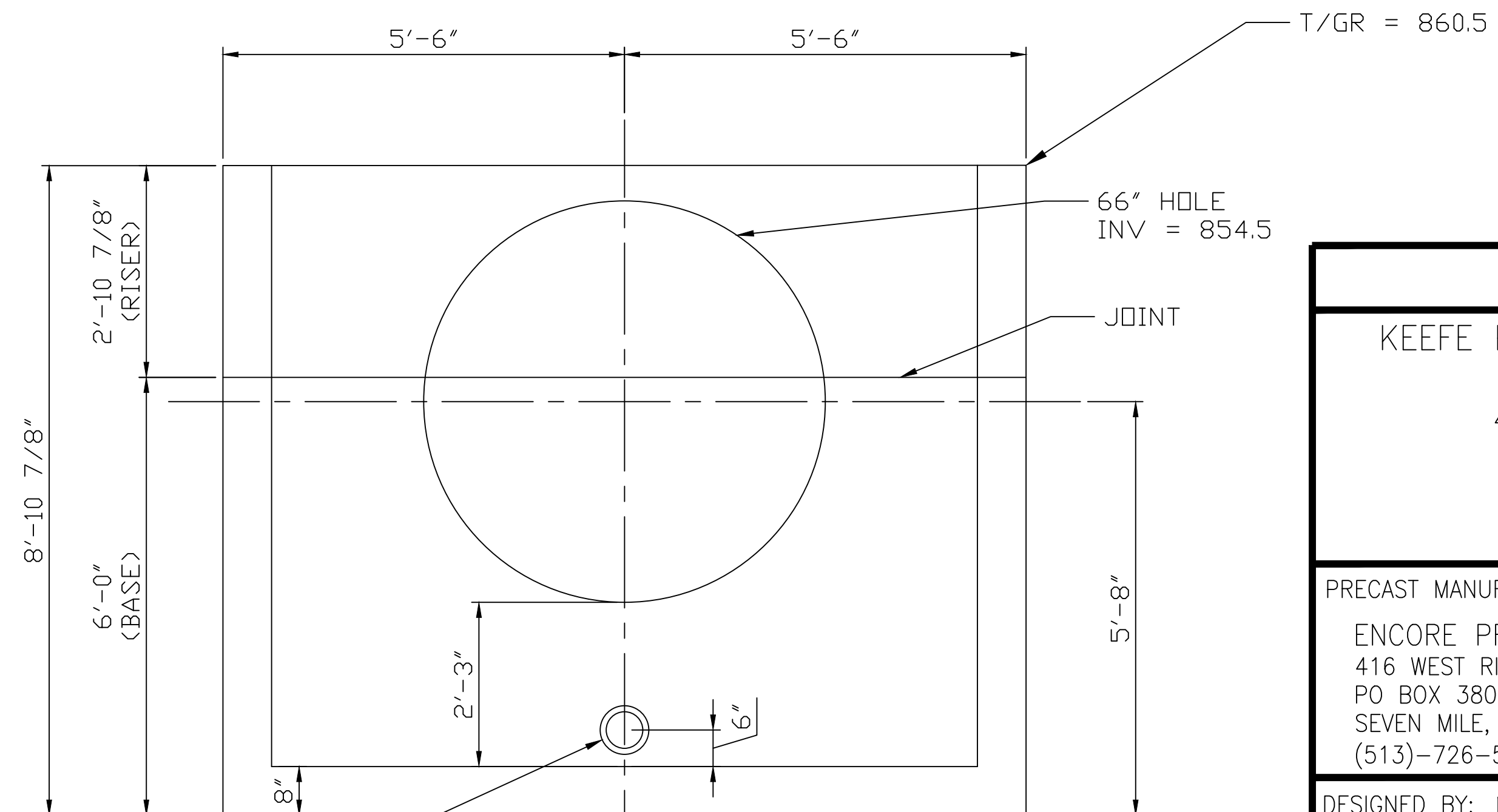


INSTALLATION CONCEPT C-C
(OUTLET CONTROL STR)

All gaps to be fully grouted closed after installation is completed.

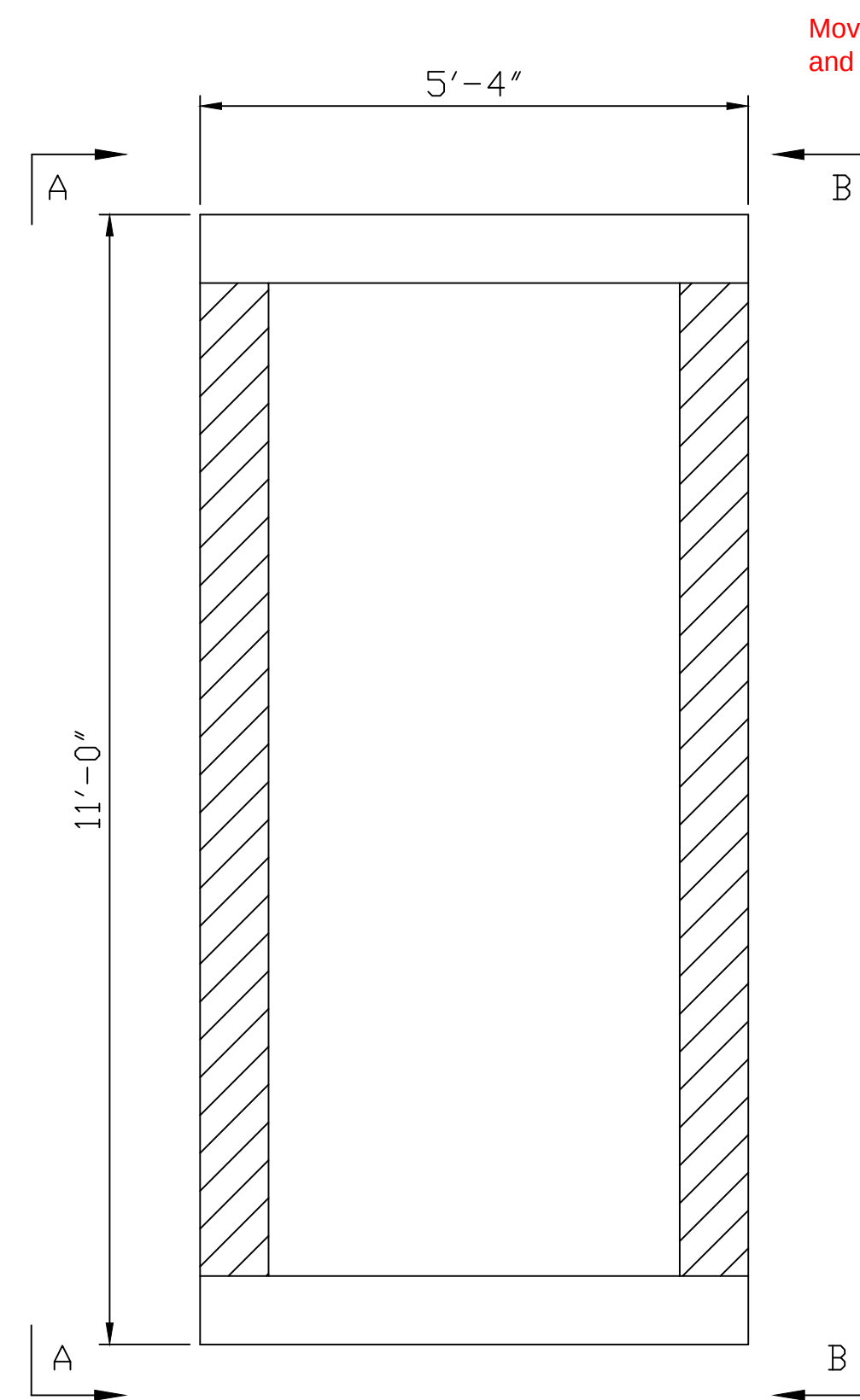


SECTION VIEW A-A
(OUTLET CONTROL STR)



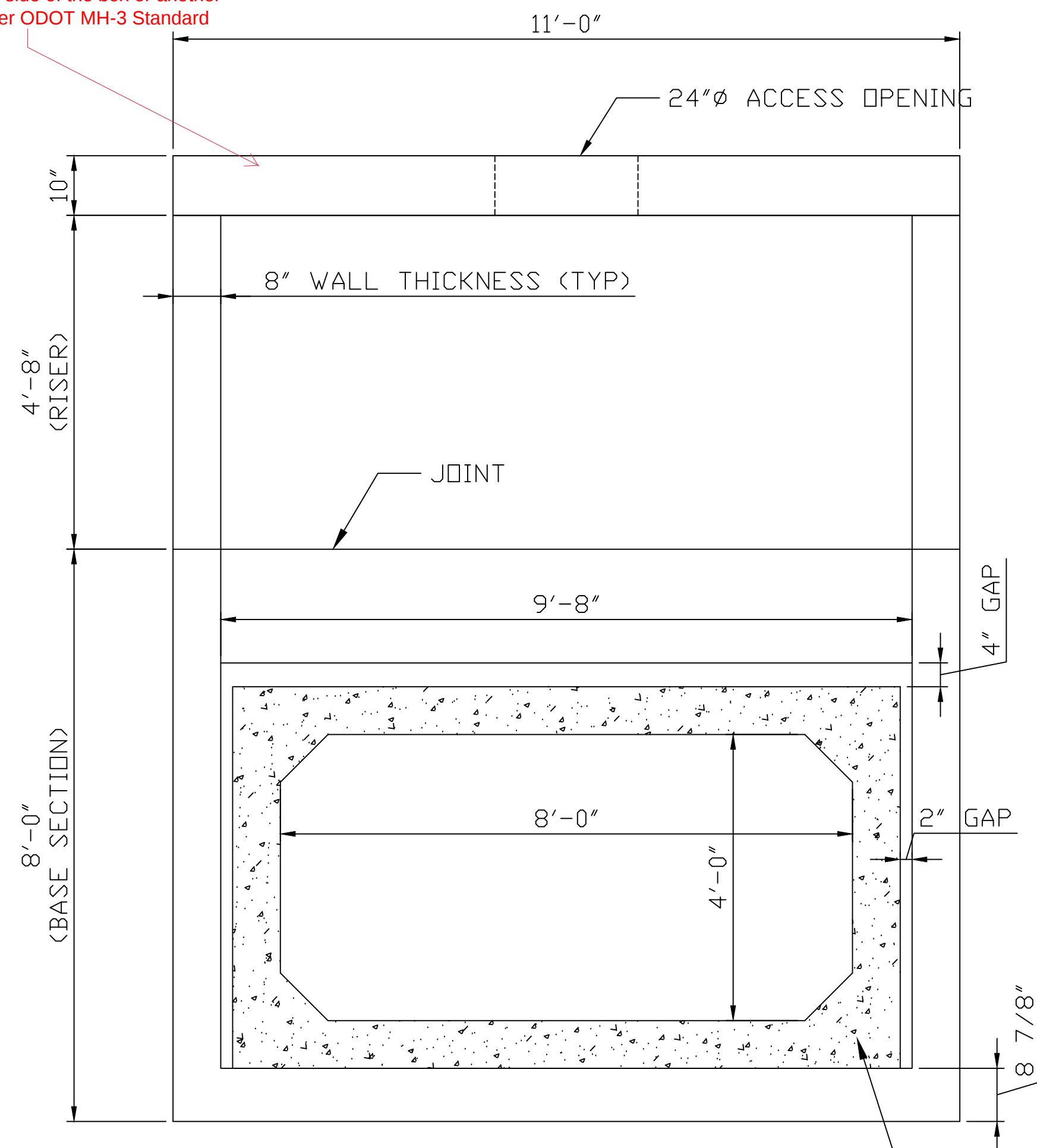
SECTION VIEW B-B
(OUTLET CONTROL STR)

OCS DETAIL	
KEEFE PROPERTY SP-PUD TRACTS 2&3 WEST CHESTER, OH 4 - SIDED PRECAST BOX SPAN 8' X RISE 4'	
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DESIGNED BY: MIKE KRISMER	
DRAWN BY: MIKE KRISMER	
CHECKED BY:	
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DATE:	



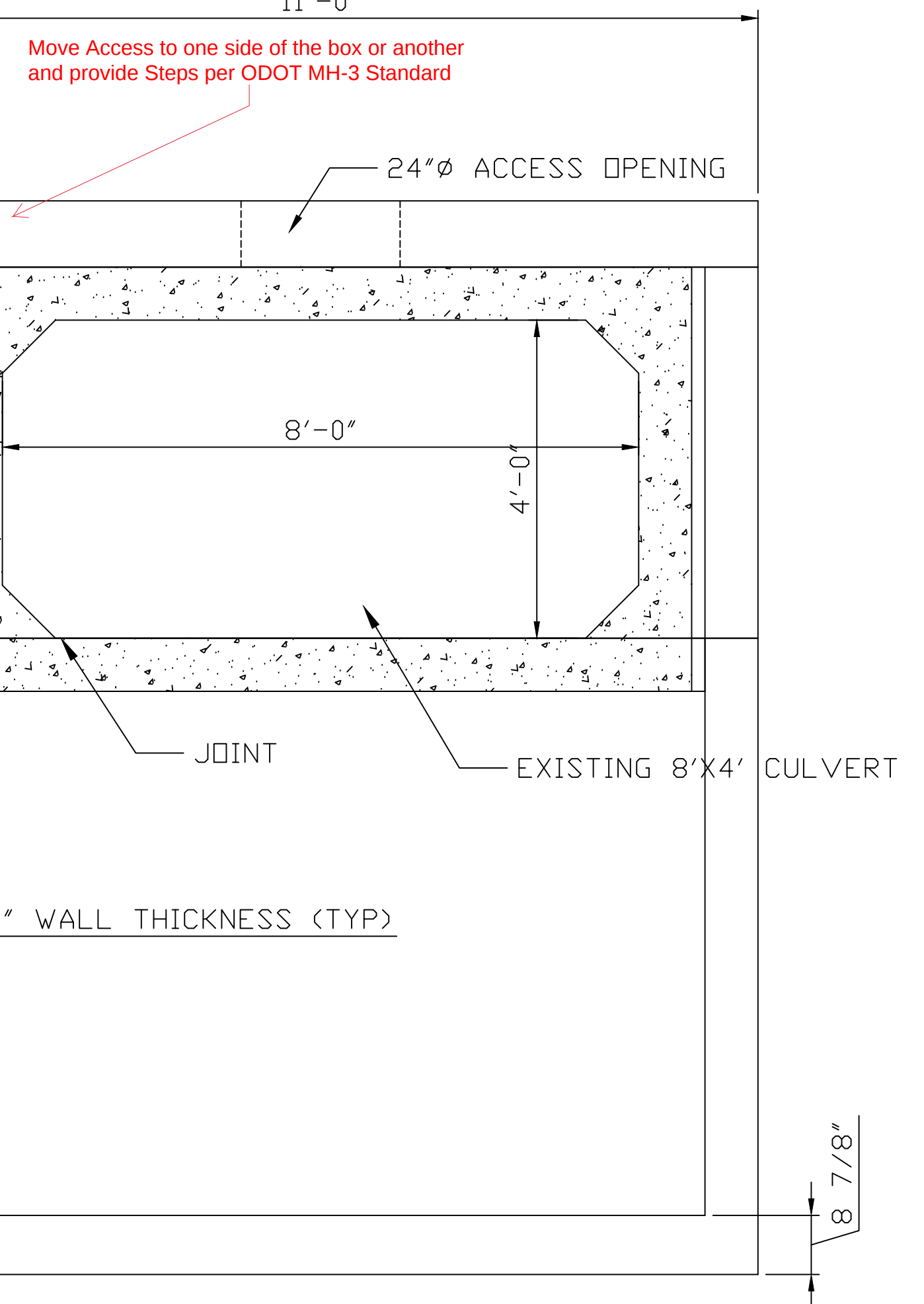
PLAN VIEW
(OUTLET CONTROL STR)

Move Access to one side of the box or another
and provide Steps per ODOT MH-3 Standard



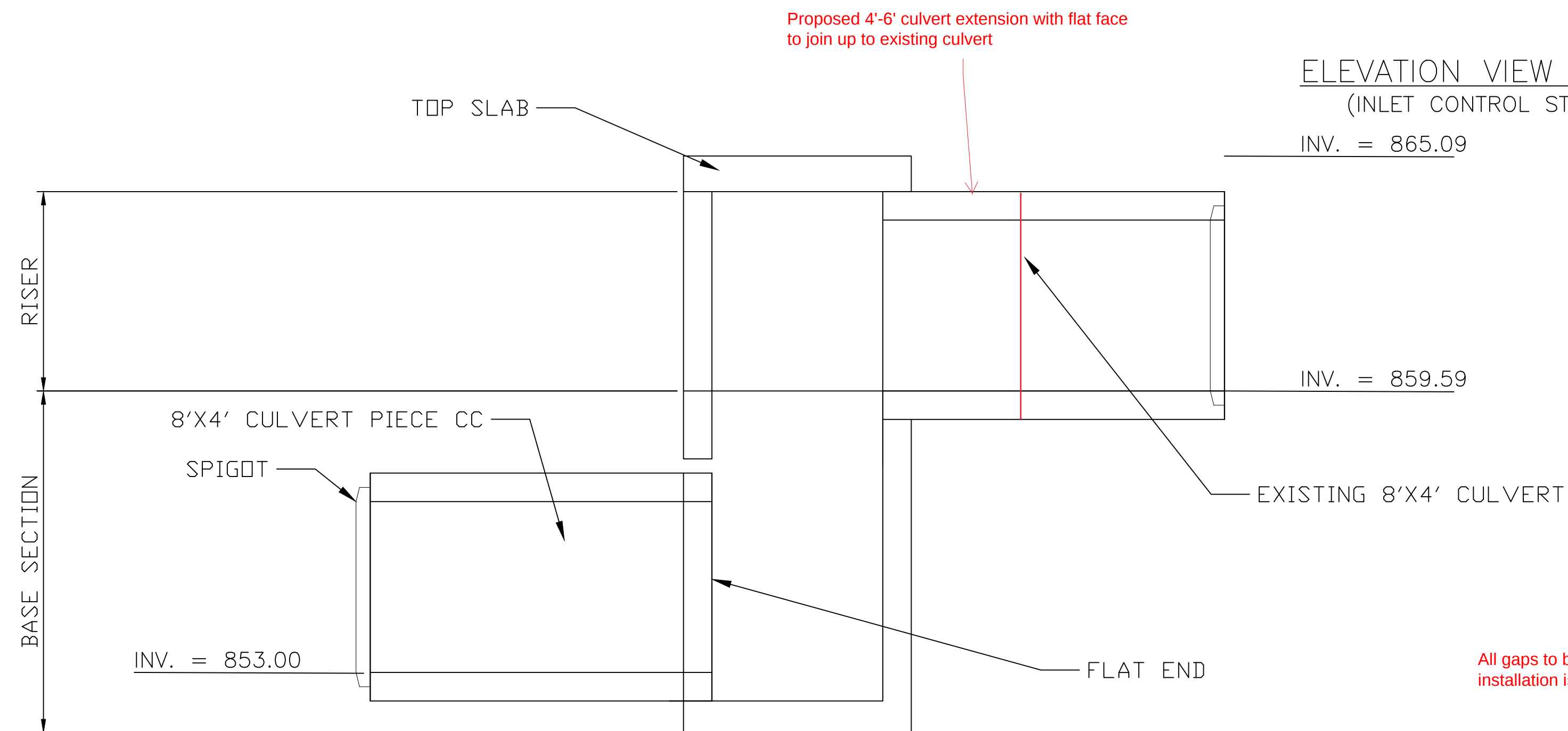
ELEVATION VIEW A-A
(INLET CONTROL STR)

INV. = 865.09



ELEVATION VIEW B-B
(INLET CONTROL STR)

PROPOSED 8'X4' CULVERT



INSTALLATION CONCEPT
(INLET CONTROL STR)

All gaps to be fully grouted closed after
installation is completed.

ICS DETAIL	
KEEFE PROPERTY SP-PUD TRACTS 2&3 WEST CHESTER, OH 4 - SIDED PRECAST BOX SPAN 8' X RISE 4'	
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