

STRUCTURAL SPECIFICATIONS:

1. FLOODGATE MATERIAL TO BE ALUMINUM AS FOLLOWS:

LID EXTRUSION - 6" x 4" x 1/8" ALUM EXTRUSIONS - GRADE 6005-T5 MIN. F_y=35 KSI **LID WEAR PLATE** - 1/2" SMOOTH ALUM PLATE - GRADE 5052 MIN. $F_y=25.8$ KSI LID STIFFENER - 4" x 6" x 1/2" ALUM TUBING - GRADE 6061 MIN. F_v=35 KSI PAN - 1/2" SMOOTH ALUM PLATE - GRADE 5052 MIN. F_Y=25.8 KSI

PAN FRAME - ALUMINUM 6" x 4.69# LADDER FRAME STRUCTURE,

RETENTION ARMS - 4" x 2" ALUM BAR - GRADE 6061 MIN. F_y=35 KSI ALUM FLAT BARS, STRUCTURAL ANGLES, HINGES GRADE 6061-T6 MIN. F_v=35 KSI

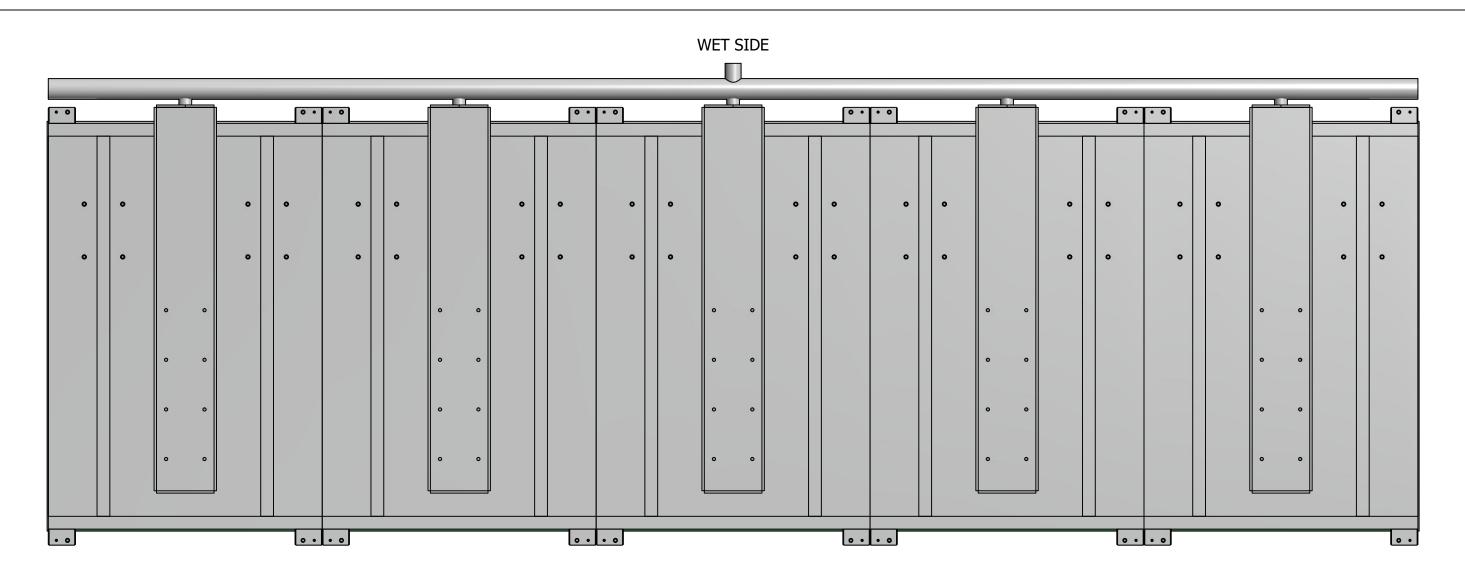
- 2. HINGE BOLTS, PINS, AND MACHINE SCREWS TO BE STAINLESS STEEL -
- 3. RETENTION ARM ANCHOR BOLTS SHALL BE STAINLESS STEEL STANDARD THREAD BOLTS SET IN VINYLESTER BASED ADHESIVE CONTAINED IN A GLASS CAPSULE, SPEC - POWERS DRIVE-IN GLASS HAMMER CAPSULES OR HILTI HY 200/500 INSTALLED PER SIMPSON STRONG TIE SPECIFICATIONS.
- 4. ALUMINUM TO BE WELDED WITH ALUMINUM WIRE PER 4043 AWS A5.10 3/64.
- 5. GROUT TO BE COMMERCIAL GRADE NON-SHRINKING GROUT.
- 6. ALL WELDS REQUIRED FOR STRUCTURAL STRENGTH OF THE LID OR PAN ARE CALLED OUT ON THESE DRAWINGS. ALL OTHER WELDING, NOT SHOWN OR CALLED OUT ON THESE DRAWINGS, ARE ESSENTIALLY NON-STRUCTURAL WELDS OR WELDS WITH NEGLIGIBLE LOADS AND RESULTING STRESSES. EXAMPLES OF SUCH WELDS ARE AT SEAMS, SIDES, PAN TROUGH, AND LID TRIM ANGLES. ALL WELDS TO BE CONCEALED OR GROUND SMOOTH IF EXPOSED TO VIEW OR SUSCEPTABLE TO TOUCH, TAKING INTO CONSIDERATION ASSEMBLY, TRANSPORT LIFT AND CONTINUITY REQUIREMENTS. THEY MUST BE APPROVED BY FLOODBREAK.
- 7. ALL CONCRETE FOUNDATION POURS AND THEIR TIE-DOWNS TO EXISTING FOUNDATIONS SHOWN IN THESE DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN OF THE CONCRETE FOUNDATION SLABS IS BY OTHERS. DESIGN AND SUPERVISION OF INSTALLATION OF RETENTION ARMS, ANCHOR BOLTS, AND GATE ANCHORS ARE BY FLOODBREAK. ALL CONCRETE TO BE 4000 PSI MINIMUM 28 DAY STRENGTH. REINFORCED IN EACH DIRECTION WITH ASTM - A615 MIN. F_y =60 KSI. SPECIAL ATTENTION SHALL BE PAID TO PROPER SUPPORT OF RETENTION ARM ANCHOR BOLTS INTO THE SUPPORTING CONCRETE.
- 8. ALL GASKET MATERIAL TO BE EPDM RUBBER.
- 10.THIS GATE IS EQUIPPED WITH A HYDRAULIC LIFTING ARM TO ALLOW FOR

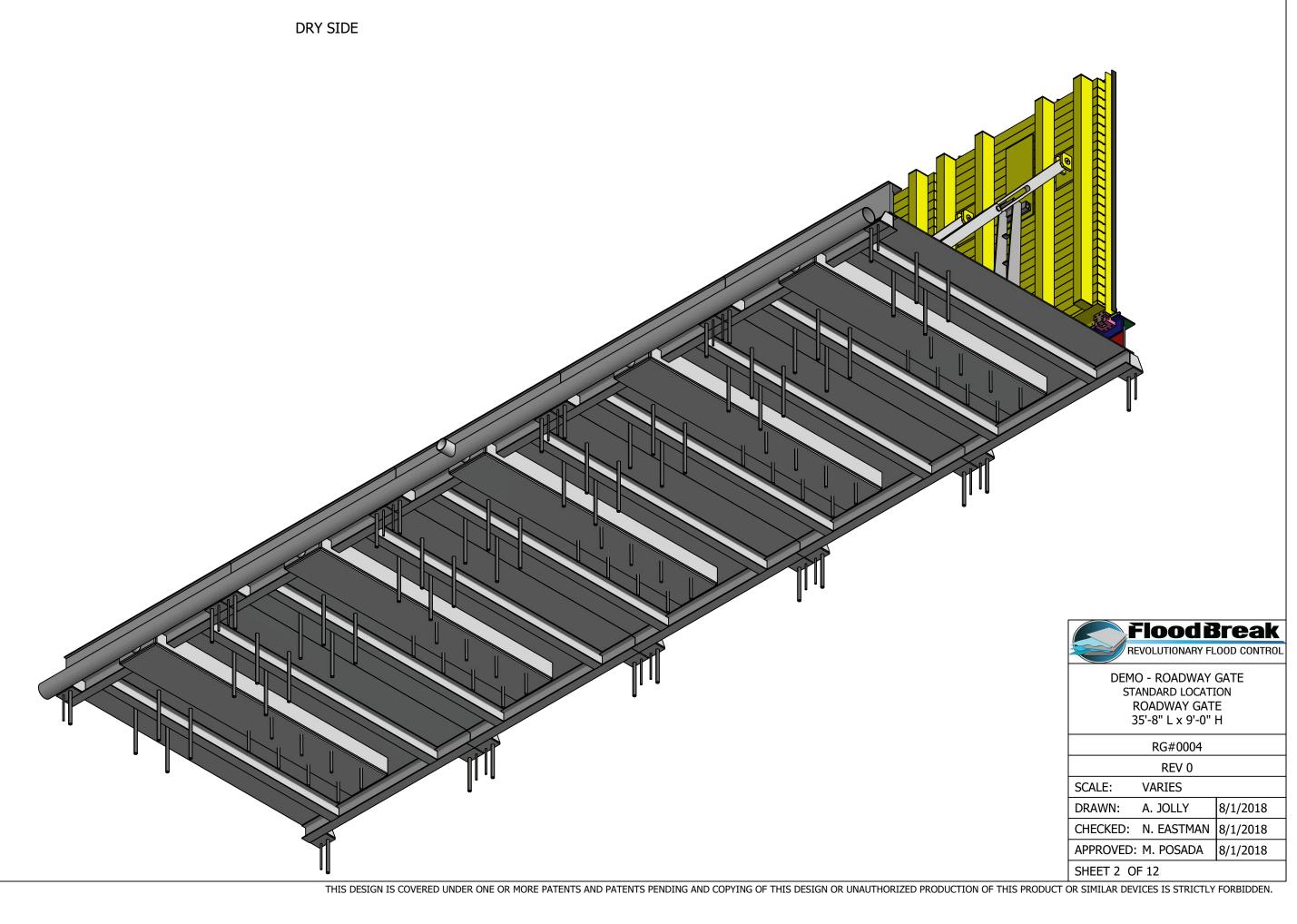
Flood Break REVOLUTIONARY FLOOD CONTRO **DEMO - ROADWAY GATE**

> STANDARD LOCATION **ROADWAY GATE** 35'-8" L x 9'-0" H

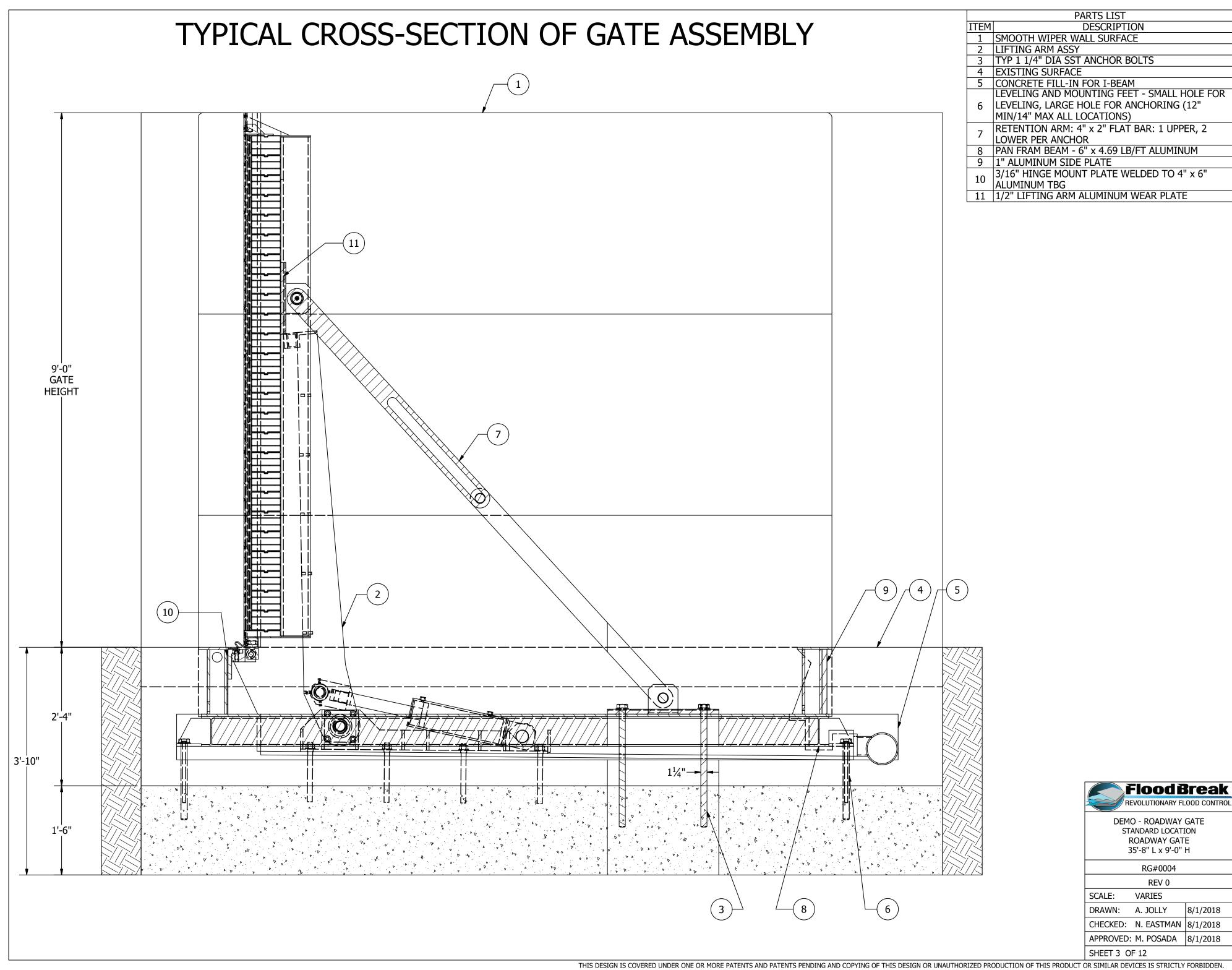
> > RG#0004

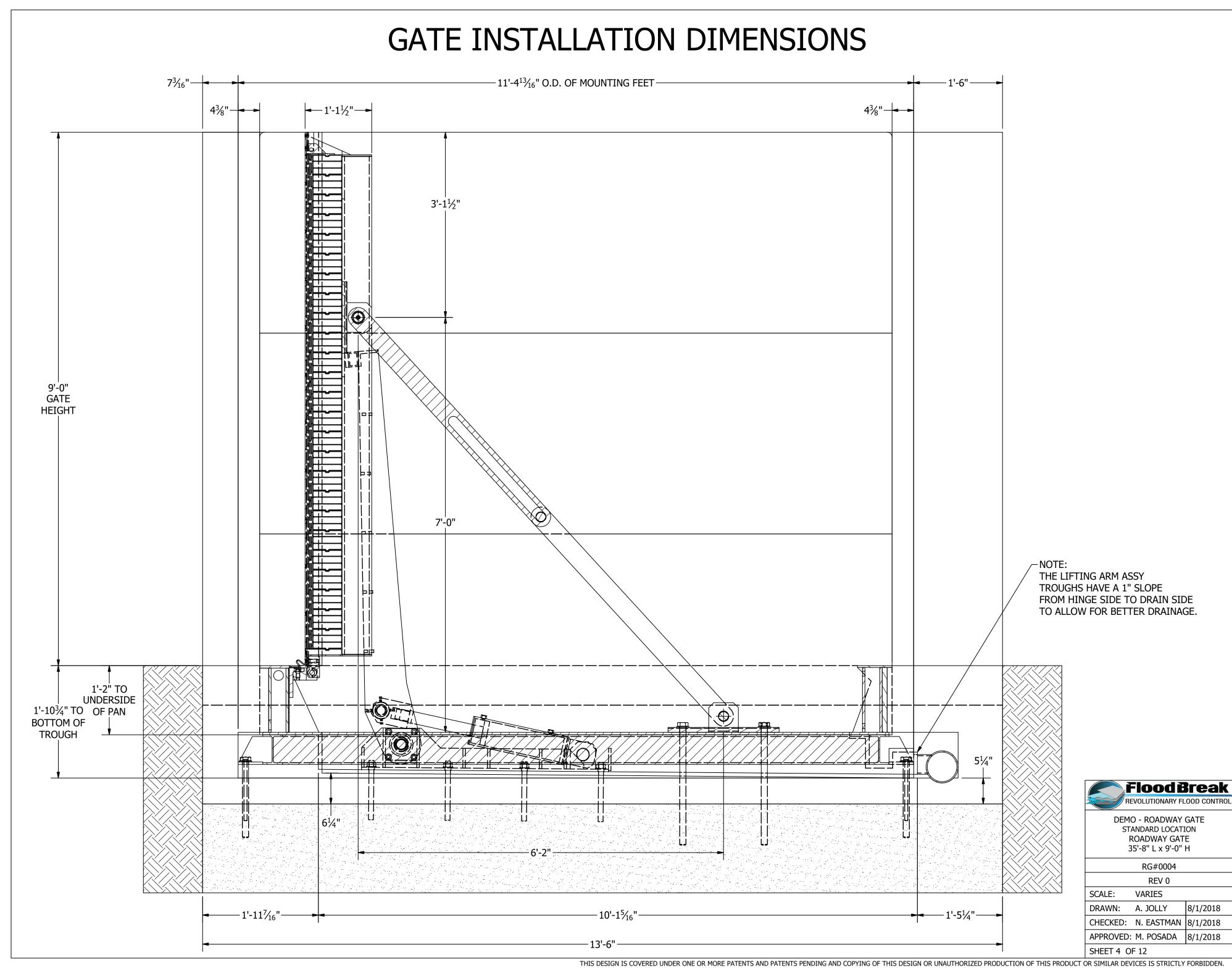
REV 0 SCALE: **VARIES** DRAWN: A. JOLLY 8/1/2018 CHECKED: N. EASTMAN 8/1/2018 APPROVED: M. POSADA 8/1/2018 SHEET 1 OF 12

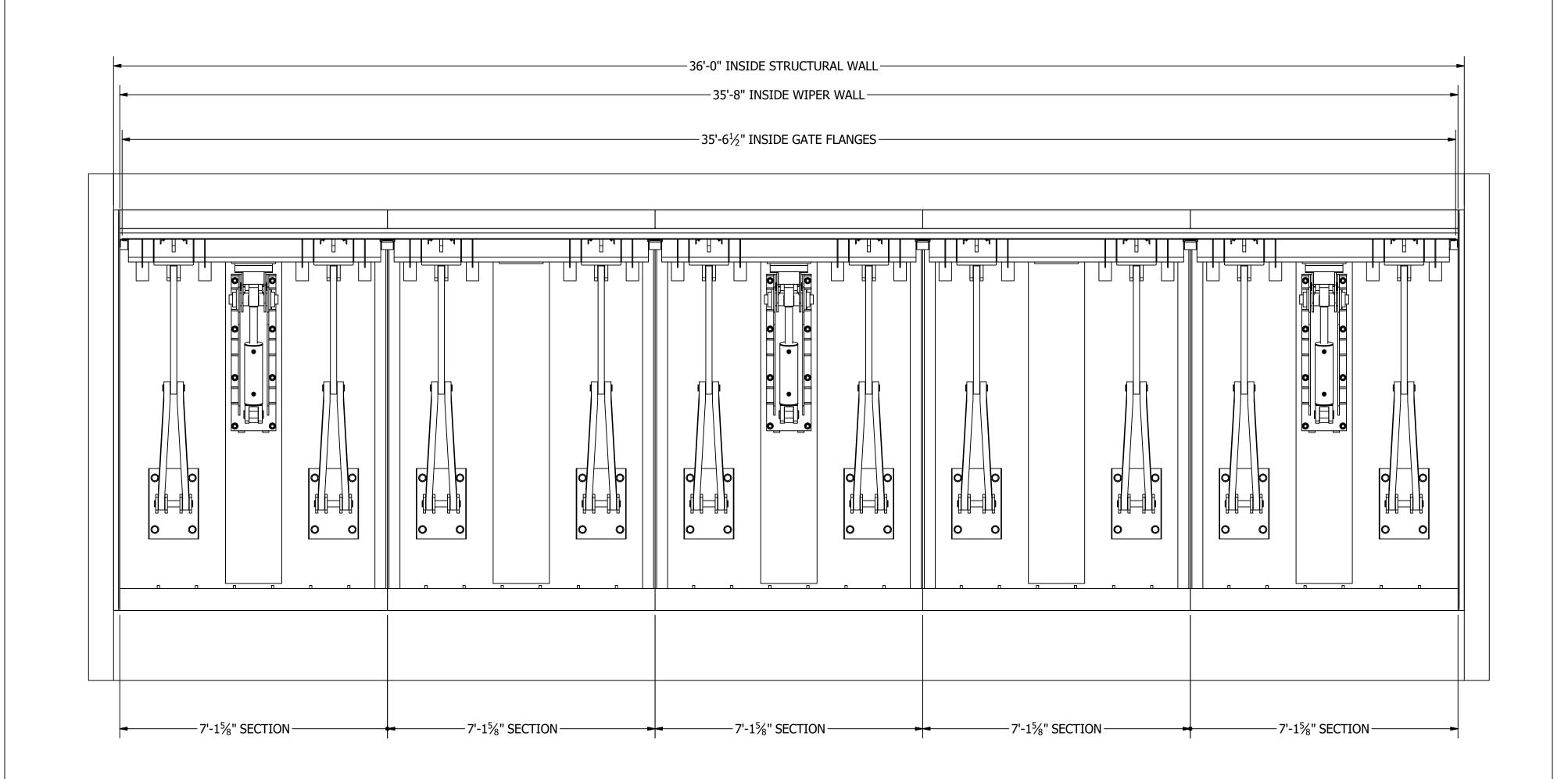




GATE UNDERSIDE WITH PVC PIPE ROUTING









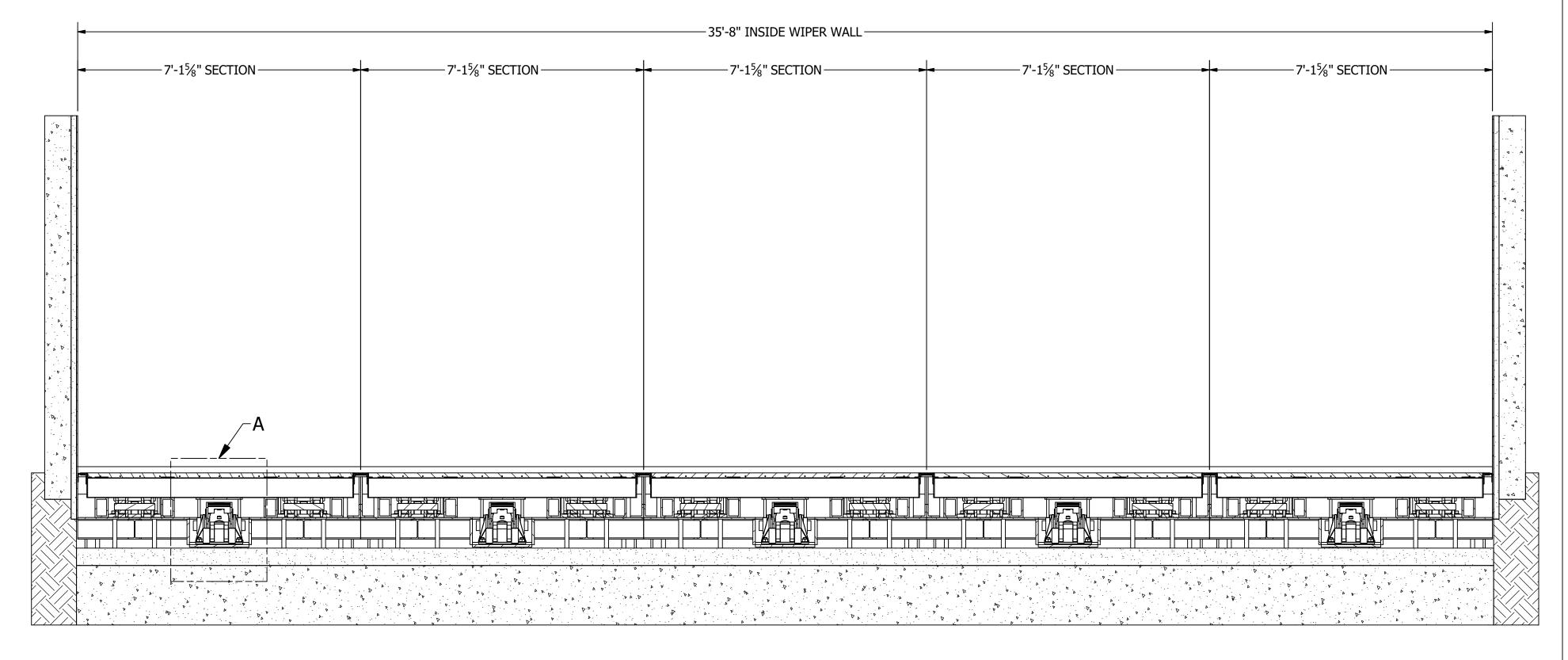
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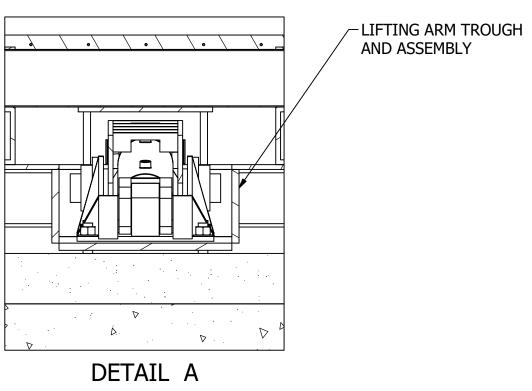
RG#0004		
	REV 0	
SCALE:	VARIES	
DRAWN:	A. JOLLY	8/1/2018
CHECKED:	Ν ΕΔΩΤΜΔΝ	8/1/2018

APPROVED: M. POSADA

GATE SECTION WIDTH DIMENSIONS

GATE FRONT VIEW SECTION





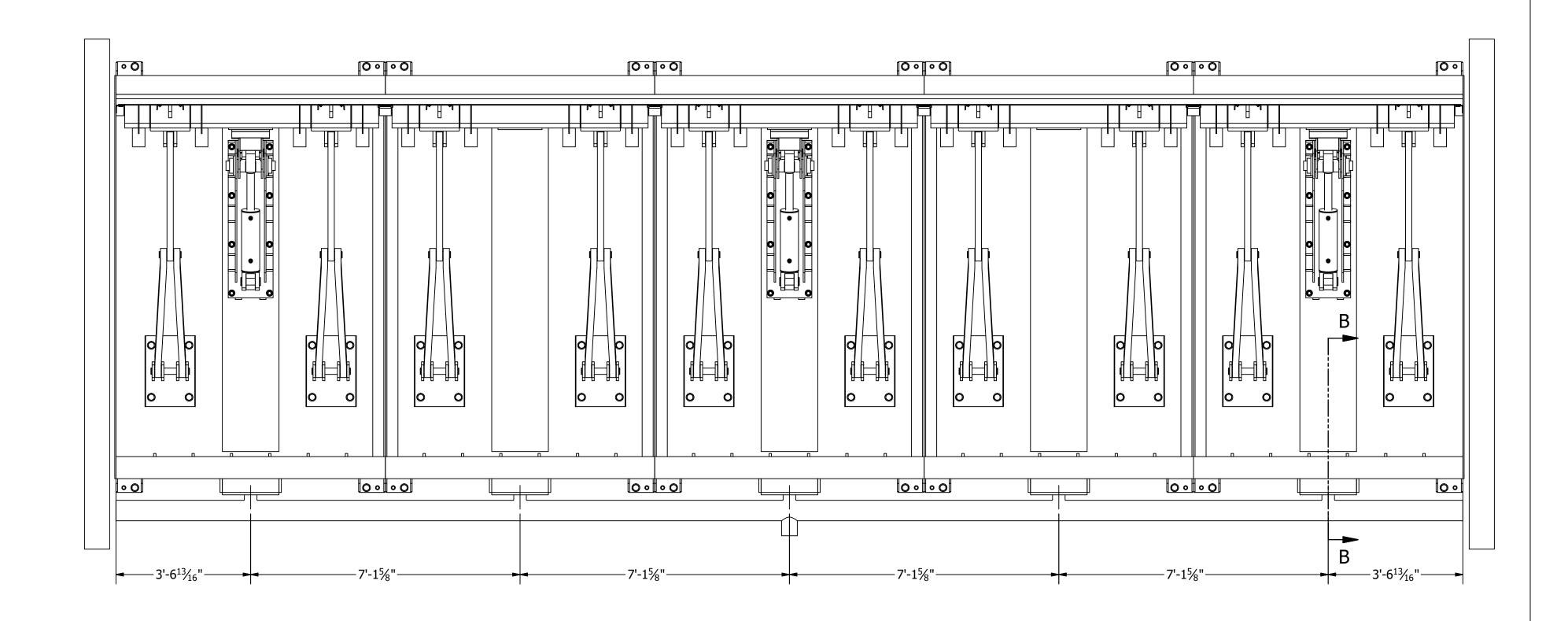


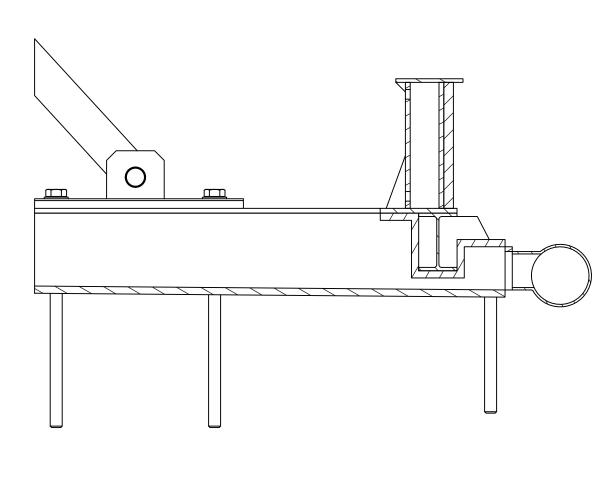
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CHECKED:	N. EASTMAN	8/1/2018

APPROVED: M. POSADA 8/1/2018

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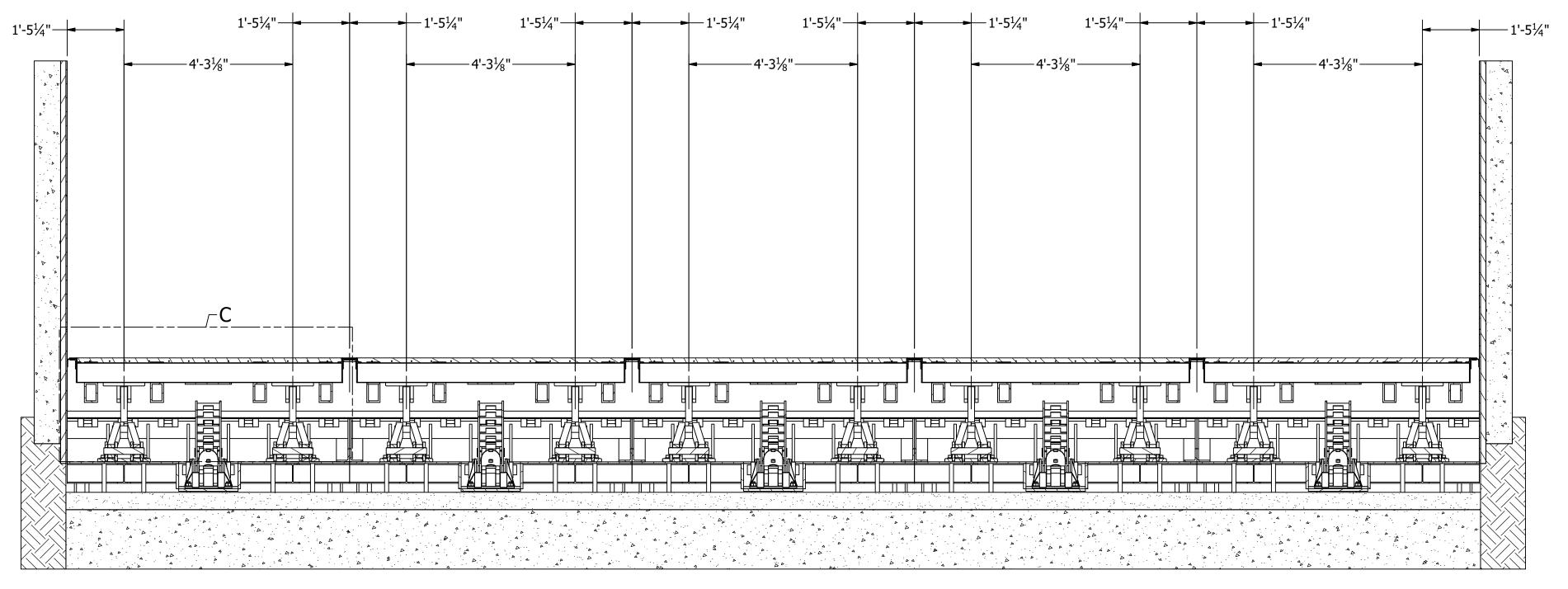
SECTION B-B

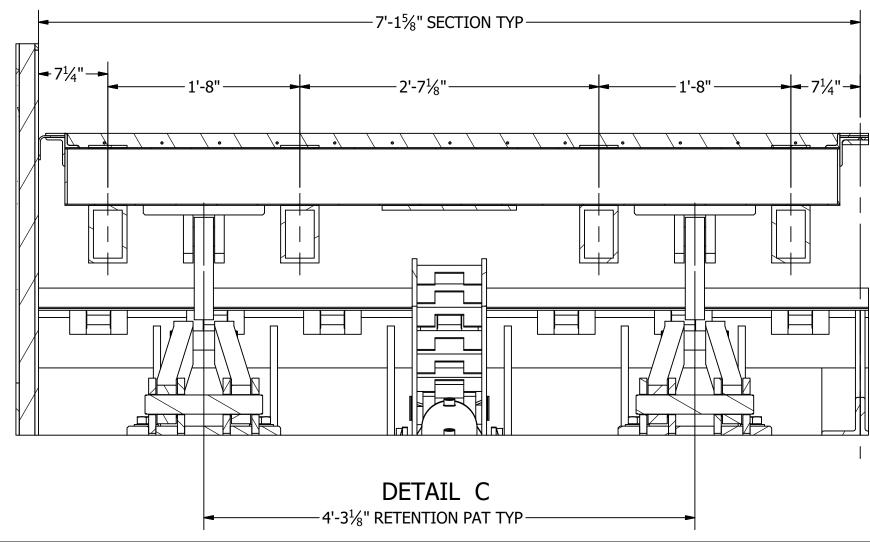
DRAIN INSTALLATION LAYOUT



	RG#0004	
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RETENTION ARM LAYOUT



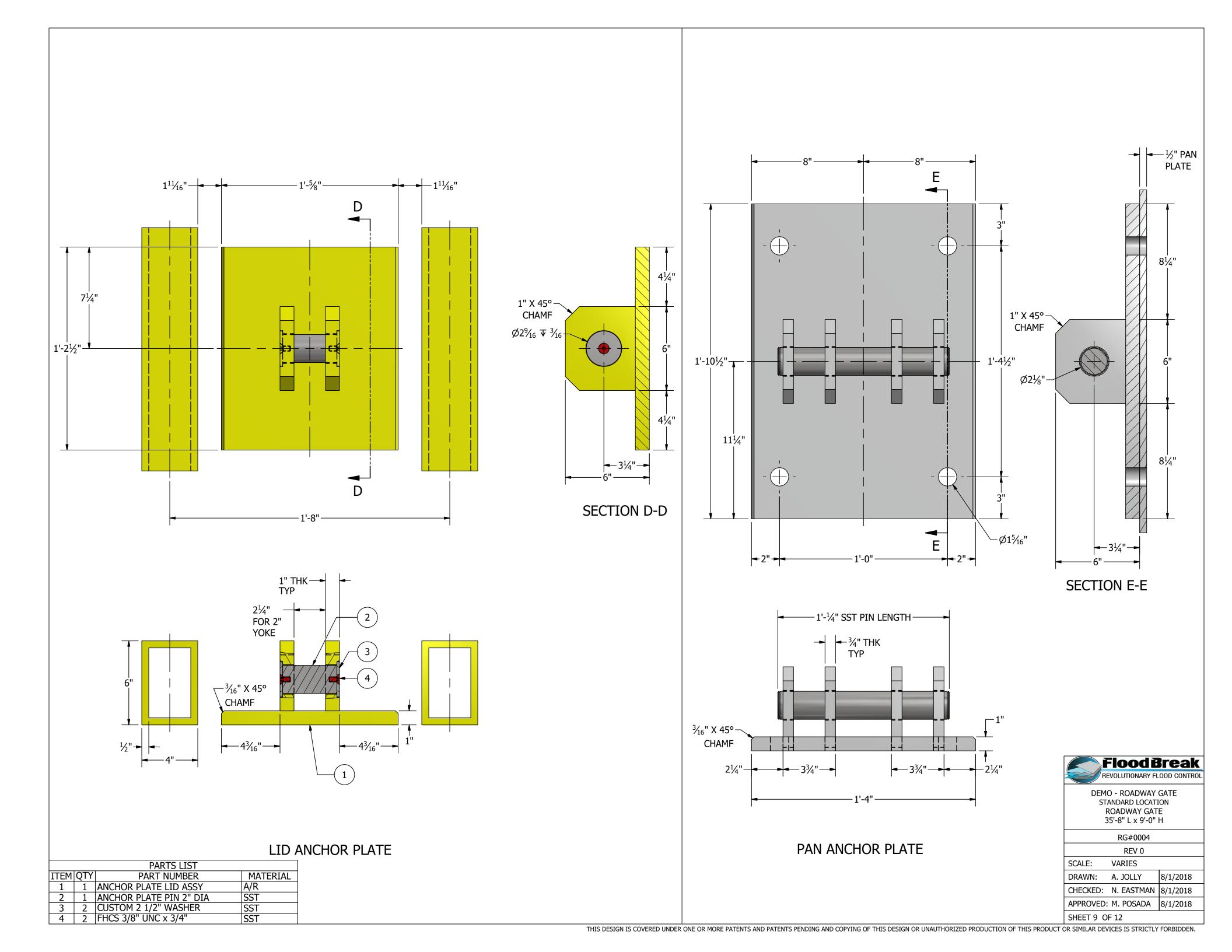


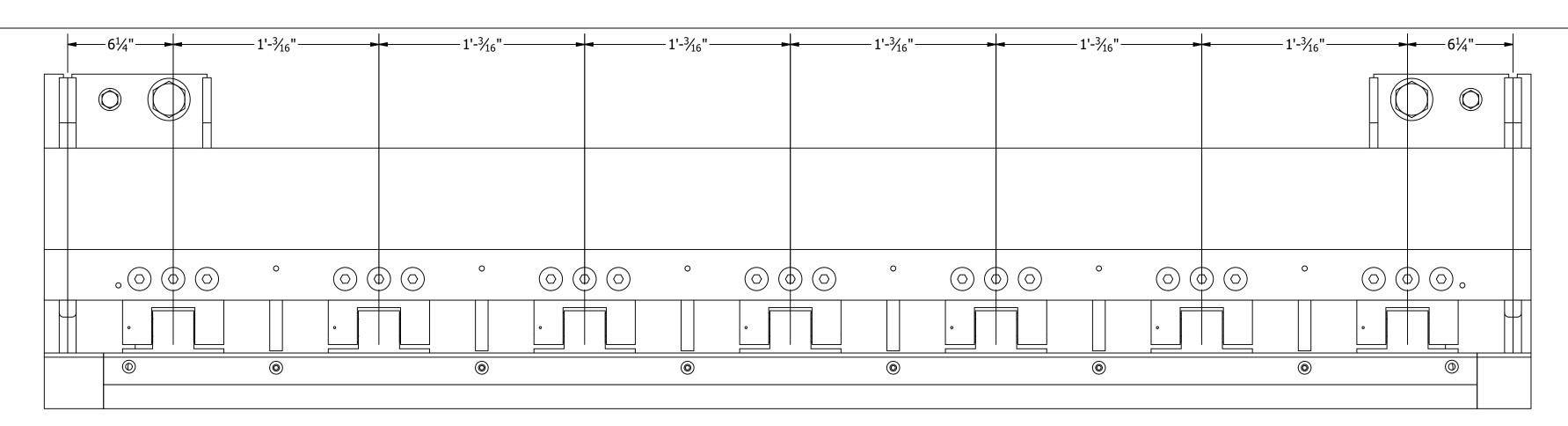


DEMO - ROADWAY GATE STANDARD LOCATION ROADWAY GATE 35'-8" L x 9'-0" H

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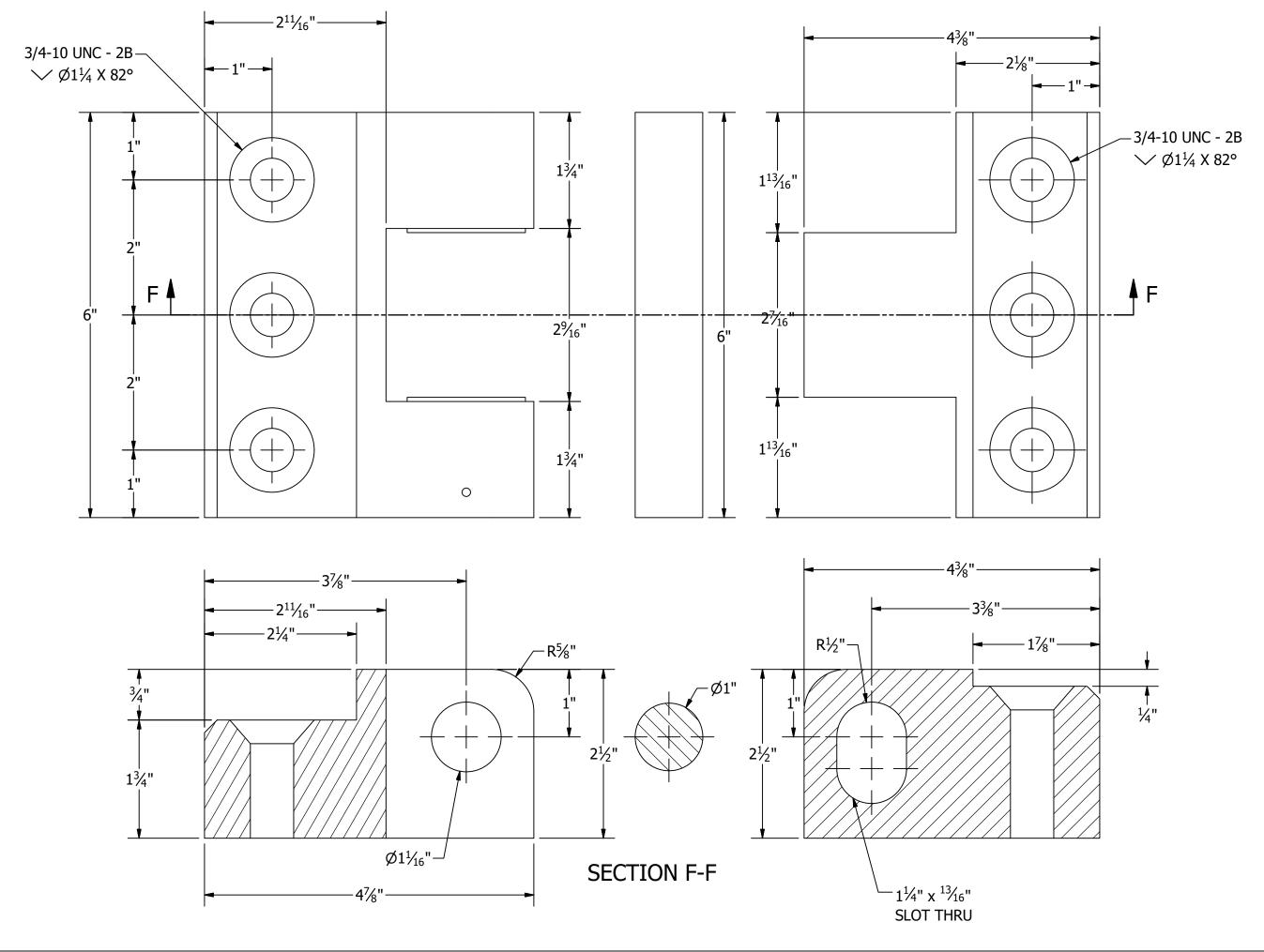
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HINGE LAYOUT - TYPICAL 5 SECTIONS

7 HINGES AT 12.18" SPACING

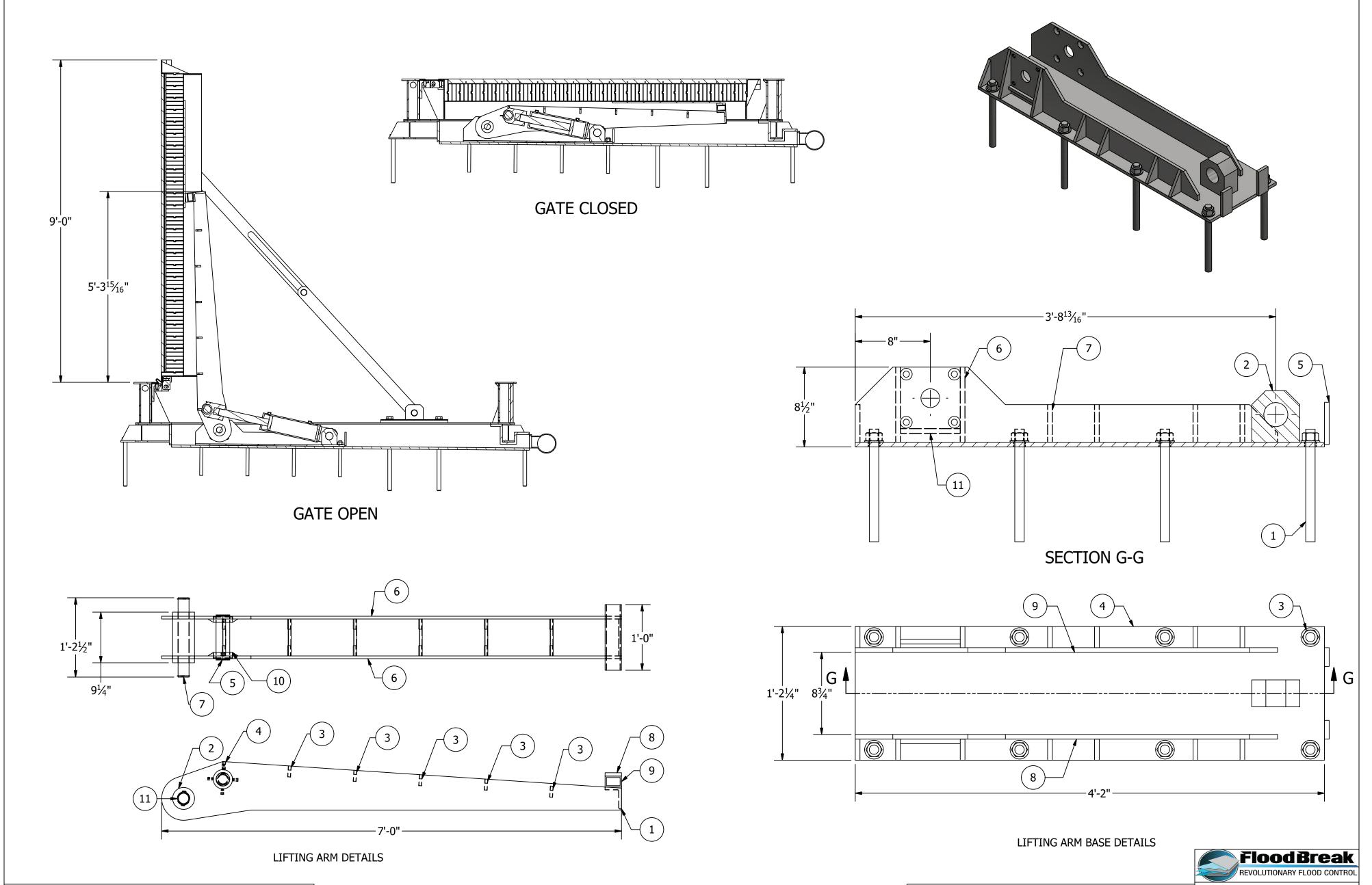




DEMO - ROADWAY GATE STANDARD LOCATION ROADWAY GATE 35'-8" L x 9'-0" H

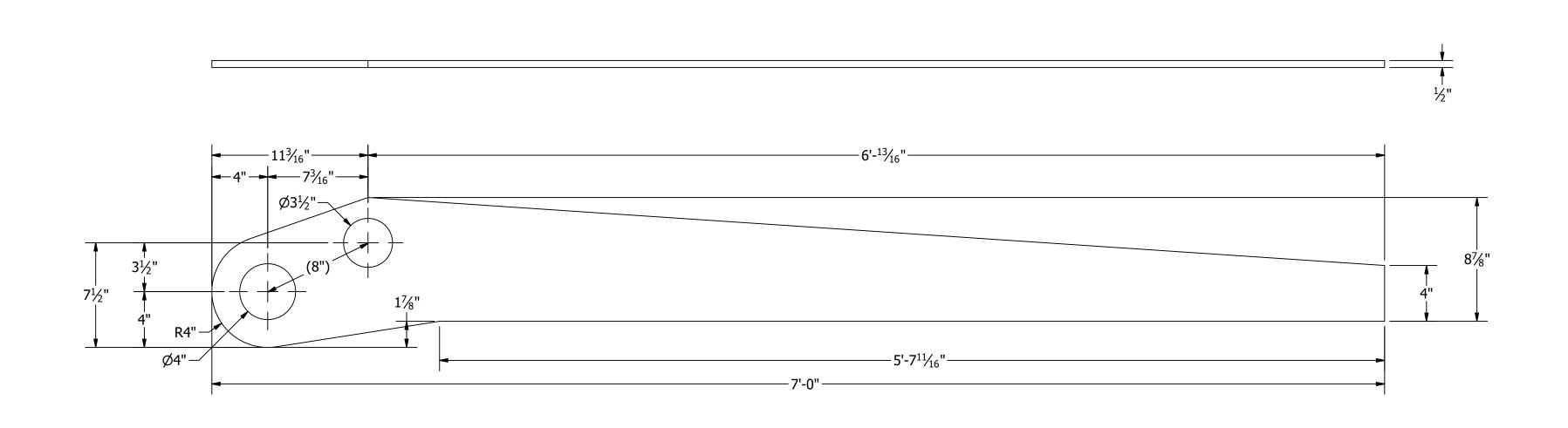
	REV 0	
SCALE:	VARIES	
DRAWN:	A. JOLLY	8/1/2018
CHECKED:	N. EASTMAN	8/1/2018
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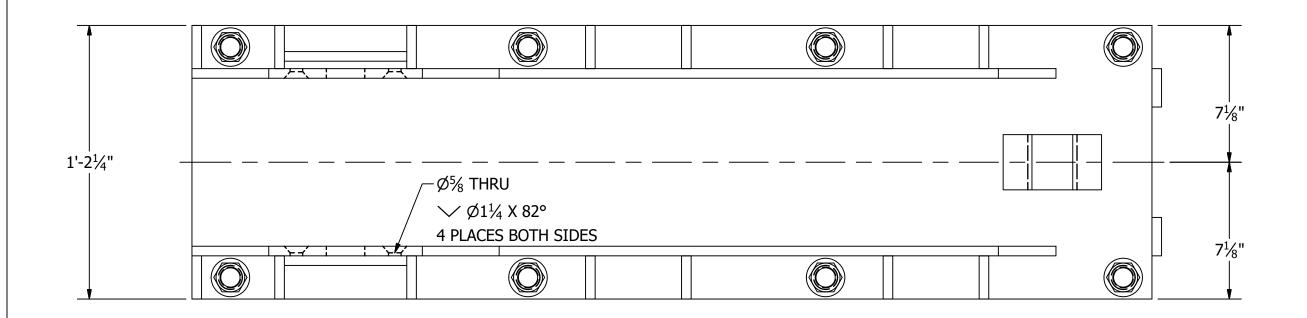
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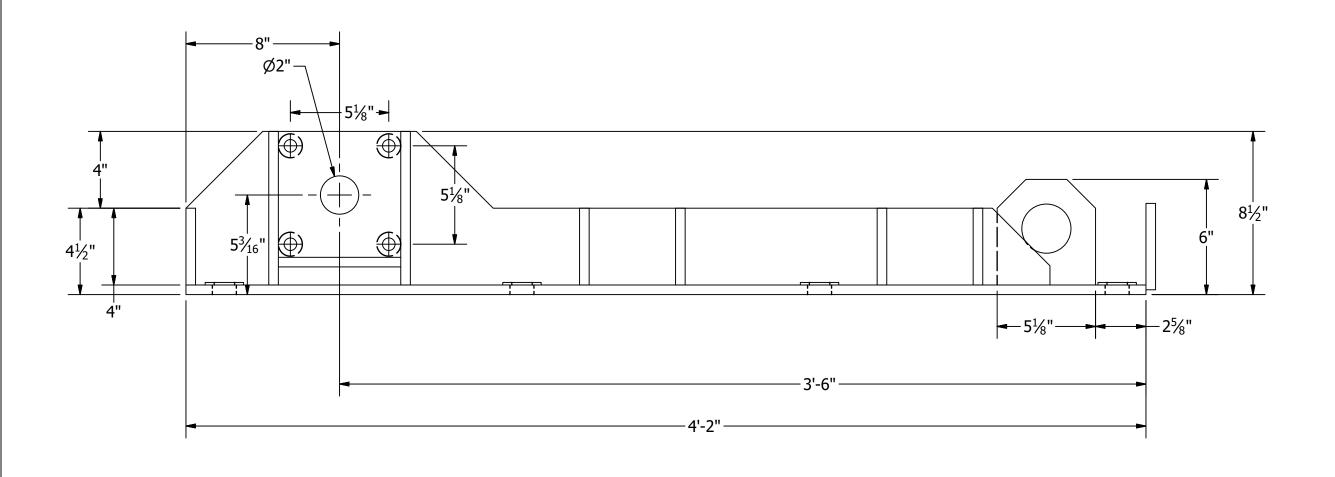


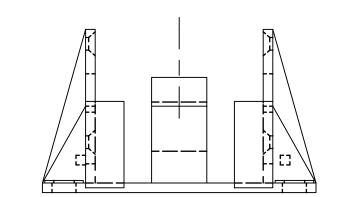
	PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL		
1	1	LIFTING ARM ATTACH ANGLE	3"x4" SST		
2	1	LIFTING ARM LARGE TBG	4" OD, 2" ID SST		
3	5	LIFTING ARM MID PLATE	1/2" SST		
4	1	LIFTING ARM MID PLATE-PUSH	1/2" SST		
5	1	LIFTING ARM ROD PIN	1 3/4"x9 1/2" SST		
6	2	LIFTING ARM SIDE PLATE	1/2" SST		
7	1	LIFTING ARM TOP PIN	2" SST		
8	1	LIFTING ARM FRAME PAD	NYLON		
9	1	LIFTING ARM PUSH TBG	2"x3" SST TBG		
10	2	SHAFT COLLAR MOUNT	SST		
11	4	EXTERNAL SNAP RING	SST		

PARTS LIST DEMO - ROADWAY GATE ITEM QTY PART NUMBER MATERIAL STANDARD LOCATION 1 8 ALL-THREAD 1" ANCHOR ROADWAY GATE SST 35'-8" L x 9'-0" H 2 1 CYL DOUBLE MOUNT SST 3 8 HEX NUT 1" UNC SST SST RG#0004 4 1 LIFTING ARM FAB BASE SST REV 0 5 2 LIFTING ARM FAB FRONT PLATE SST SCALE: **VARIES** 6 4 LIFTING ARM FAB LARGE GUSSET SST 7 | 10 | LIFTING ARM FAB SMALL GUSSET | SST DRAWN: A. JOLLY 8/1/2018 8 1 LIFTING ARM VERT PLATE LEFT SST CHECKED: N. EASTMAN 8/1/2018 9 1 LIFTING ARM VERT PLATE RIGHT SST APPROVED: M. POSADA 8/1/2018 10 | 2 | LIFTING ARM BEARING SHOE SST SST SHEET 11 OF 12 11 8 WASHER FLAT 1" SST











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