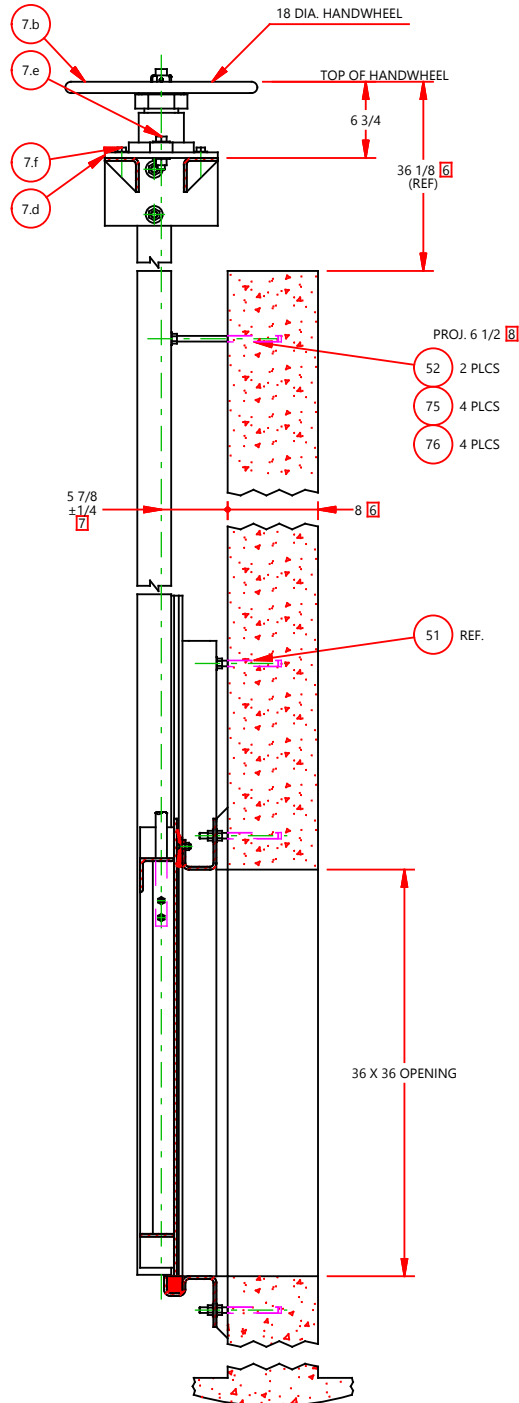
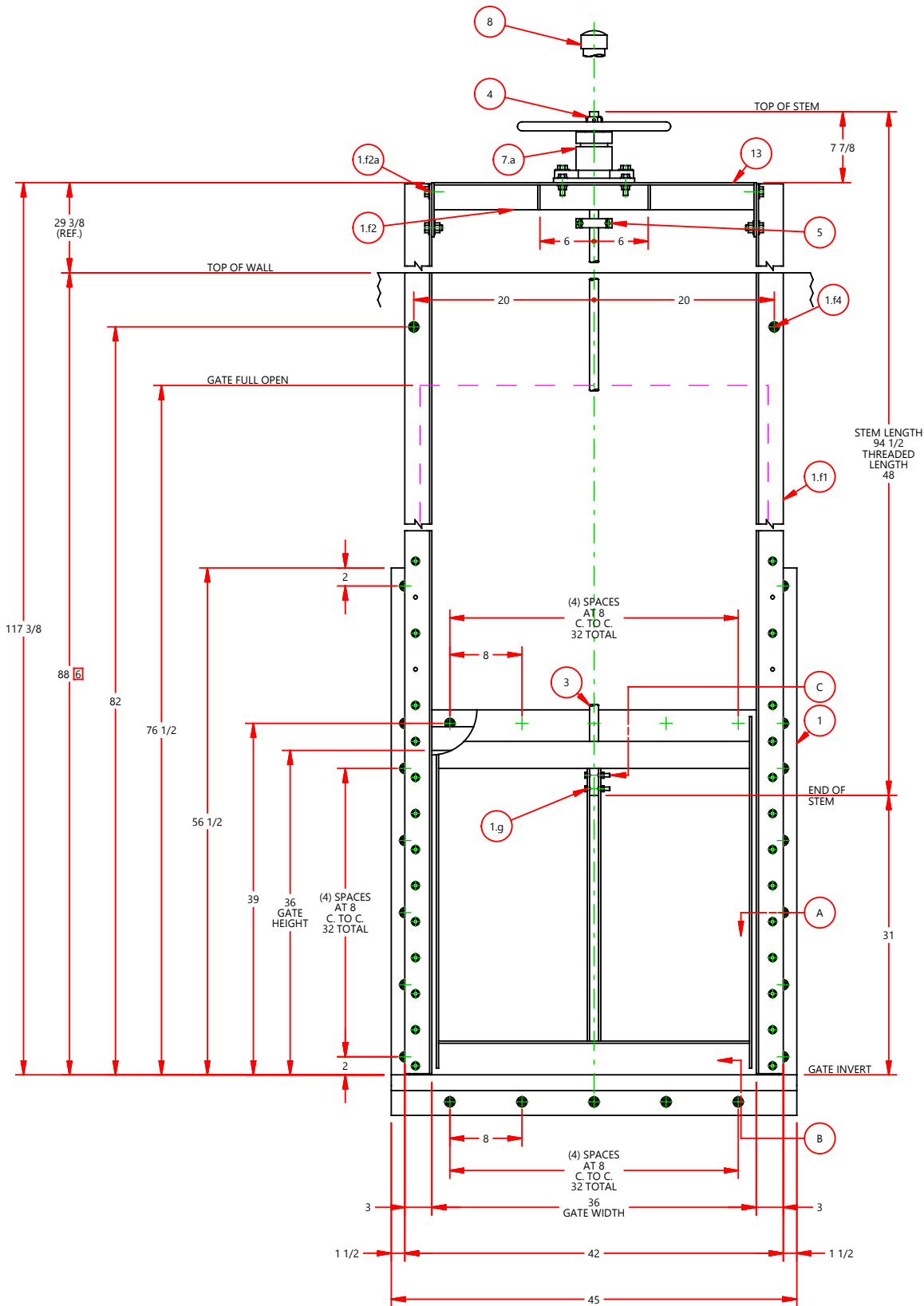




SHOP NOTE: SEE BUILD PLANS FOR SLIDE DESIGN

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2. GATES SHALL BE INSTALLED IN A TRUE VERTICAL PLANE, SQUARE AND PLUMB, WITH NO TWIST, CONVERGENCE, OR DIVERGENCE BETWEEN VERTICAL LEGS OF GUIDE FRAME ON FABRICATED GATES UNLESS OTHERWISE NOTED OR SPECIFIED.
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5. WALL THIMBLES (IF APPLICABLE) TO BE SUPPORTED INTERNALLY BOTH VERTICALLY AND HORIZONTALLY PRIOR TO POURING CONCRETE AS REQUIRED.

MP

MCWANE

PLANT & INDUSTRIAL

25500 Road 204

Exeter, California 93221

Phone: (559) 562-4000

Website: mcwanepi.com

Description:

36 x 36 WATERMAN SS-250 SLIDE GATE

SS-251-D036036088-1.0-304FYNN-A1.00R3040O00AAAYOB304304

FOR:

PO:

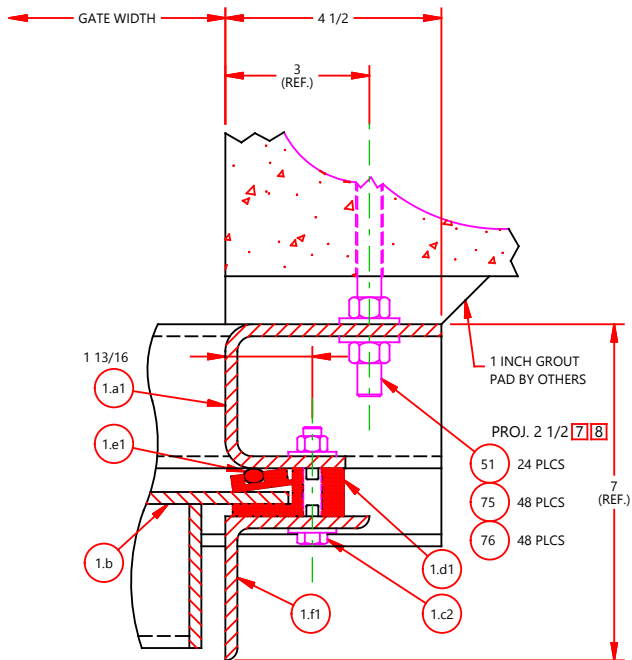
REF:

ENG:

REV.NO	DATE	BY	JOB NO.	PROJECT ASSISTANT
REV.NO	DATE	BY	QUOTE NO.	DRAWN BY
REV.NO	DATE	BY	QUOTE ITEM NO.	CHK'D BY
REV.NO	DATE	BY	SCALE	ENG. LEADER
REV.NO	DATE	BY	DRAWING NO.	SHEET
NTS				1 OF 2

REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE INTELLECTUAL PROPERTY OF MCWANE PLANT & INDUSTRIAL-EXETER AND IS TO BE CONSIDERED CONFIDENTIAL AND PROPRIETARY. IT, OR THE IDEAS AND CONCEPTS DESCRIBED THEREIN, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER USE WITHOUT THE WRITTEN AUTHORIZATION OF MCWANE PLANT & INDUSTRIAL-EXETER

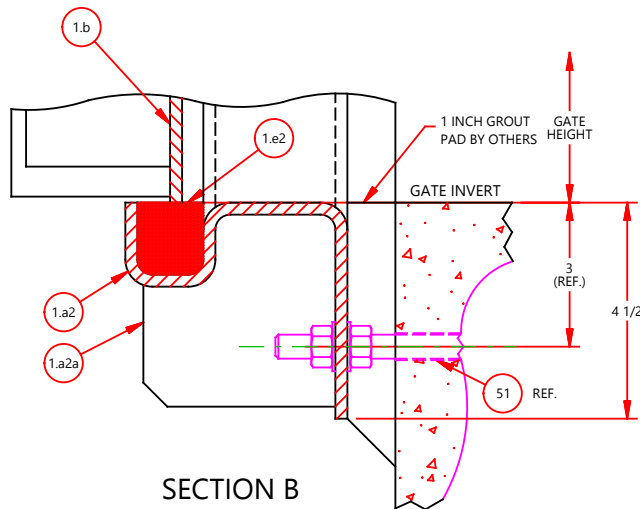
EMBEDMENT DEPTH FOR ALL THREADED STUDS			
DIAMETER	EMBEDDED DEPTH	HOLE DEPTH	HOLE DIA.
3/8	3 3/8	3 5/8	7/16
1/2	4 1/2	4 3/4	9/16
5/8	5 5/8	5 7/8	3/4
3/4	6 3/4	7	7/8
7/8	7 7/8	8 1/8	1
1	9	9 1/4	1 1/8
1 1/8	10 1/8	10 3/8	1 1/4
1 1/4	11 1/4	11 1/2	1 3/8



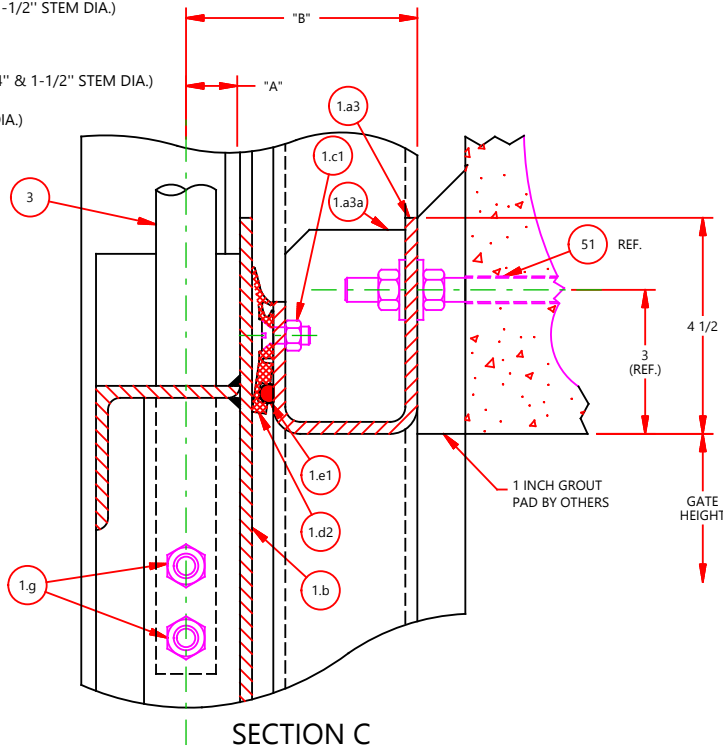
SECTION A

"A" = 1-1/8" (FOR 1", 1-1/8", 1-1/4" & 1-1/2" STEM DIA.)
1-3/8" (FOR 2" STEM DIA.)
1-3/4" (FOR 2-1/2" STEM DIA.)

"B" = 4-7/8" $\pm$ 1/8 (FOR 1", 1-1/8", 1-1/4" & 1-1/2" STEM DIA.)
5-1/8" $\pm$ 1/8 (FOR 2" STEM DIA.)
5-1/2" $\pm$ 1/8 (FOR 2-1/2" STEM DIA.)



SECTION B



SECTION C

MATERIAL KEY	FINISH KEY	PAINT KEY
1. CAST IRON-ASTM A-126 CL B 4. MANG. BRZ-ASTM B-584 AL. C86500 6. STRUCTURAL STEEL-ASTM A-36 9A. STN. STL. SHAPES-ASTM A-276 TY.304/304L D/C 9B. STN. STL. SHAPES-ASTM A-276 TY.316/316L D/C 9C. STN. STL. PLATE-ASTM A-240 TY.304/304L D/C 9D. STN. STL. PLATE-ASTM A-240 TY.316/316L D/C 11. STL. PIPE-ASTM A-53 TY. E GR. A 13. NEOPRENE RUBBER-ASTM D-2000 14. CLEAR PLASTIC BUTYRATE PIPE-ASTM D-707 15A. STN. STL. HDW-ASTM F-593C/D & 594 GRP 1 (TY. 304) 15B. STN. STL. HDW-ASTM F-593G/H & 594 GRP 2 (TY. 316) 15C. STN. STL. HDW. ASTM F-879 GRP 1 (TY. 304) 15D. STN. STL. HDW. ASTM F-879 GRP 1 (TYP 316) 19. ALUM. PIPE-ASTM B-241 AL. 6061-T6 20. CAST ALUMINUM- ASTM B-26 21. UHMW POLYETHYLENE-ASTM D-4020 34A. STN. STL. PIPE-ASTM-312, TY 304 34B. STN. STL. PIPE-ASTM-312, TY 316 55. EPDM- ASTM. D-2000 60. VITON- ASTM. D-2000	2. MILL 3. MACHINED 4. GALVANIZE-ASTM A-123 6H. SEE PAINT KEY	6H BLAST CLEAN PER SSPC-SP6 (2) CT5 POLYAMIDE EPOXY PAINT & (1) CT POLYURETHANE ENAMEL (TDFT-7 MILS) COLOR: GRAY

ITEM DESCRIPTION	MATERIAL KEY	FINISH KEY	PART NO. OR SIZE (FOR WATERMAN USE ONLY)	QTY./ GATE	TOTAL QTY.
1. Gate Assy	-	-	REF. 108035	1	1
a) Frame Weldment (~0 LBS.)	9C / 9D	2	REF. 108034	1	1
1) Guide Rail	9C / 9D	2	REF. 108312	2	1
a) Guide Rail Anchor Straps	9A / 9B	2	-	-	1
2) Flush Bottom/Top Rail (self contained)	9C / 9D	2	REF. 110614	1	1
a) Flush Rail Gusset	9A / 9B	2	REF. 112557/108034 SHT. 2	-	1
b) Flush rail end plate	9C / 9D	2	1/4 PLATE, 1 3/4 X 4 7/8	2	1
3) Cross Rail	9C / 9D	2	REF. 110616	1	1
a) Cross Rail Gusset	9A / 9B	2	REF. 112558/108034 SHT. 2	-	1
4) Mounting Plate	9C / 9D	2	-	1	1
b) Cover Weldment (~0 LBS.)	9A / 9C	2	SEE BUILD PLANTS (1/4 THK.)	1	1
c) ASSEMBLY HARDWARE	-	2	-	-	1
1) Cross Rail	15A,15C / 15B,15D	2	3/8 NC	A/R	1
2) Guide Rail	15A / 15B	2	3/8 NC	A/R	1
d) SEATS & SPACER	-	-	-	-	1
1) Side Seal	21	2	REF. 107595/108391	2	1
2) Cross Rail Seat	21	2	REF. 109999	1	1
e) SEALS	-	-	-	-	1
1) Seal	13 / 55 / 60	2	REF. 109352-21 (7/16)	1	1
2) Flush Bottom/Top Seal	13 / 55	2	REF. 110024	1	1
f) RETAINER WELDMENT	-	-	-	-	1
1) Retainer Angle (self-contained)	9C / 9B	2	3 X 3 X 1/4 (REF. 109341)	2	1
2) Headrail W/ Gussets (Bolt-on)	9C / 9D	2	REF. 110800 / 110802	1	1
a) Hex head bolt, nut, & washer	15A / 15B	2	5/8 NC X 1 1/2 LG. / 3/4 NC X 1 3/4 LG.	4/4/8 / 6/6/12	1
3) Stem Brace (Bolt-on)	9A,9C / 9B,9D	2	REF. 110806-22	-	1
a) Hex head bolt, nut, & washer	15A / 15B	2	3/8 NC X 1 LG.	4/4/8 per stem brace	1
b) Hex head bolt, nut, & washer	15A / 15B	2	1/2 NC X 2 LG.	4/4/8 per stem brace	1
4) Anchor Hole Detail	-	-	REF. 111967	-	1
g) Stem Bolt & Nut	15A	2	3/8 NC x 2 1/2 LG.	2/2	1
3. Stem (rising) (~0 LBS.)	9A	2,3	1 DIA. 4TPI, LH (BOX 5) (REF. 106213-1)	1	1
4. Limit Nut	1,15A	4	1 DIA. 4TPI, LH (BOX 5) (REF. 108203-11)	1	1
5. Limit nut (Clamp type)	1,15A	4	REF. 100241-1 (W-1625)	1	1
7. LIFT ASSEMBLIES	-	-	REF. 105604	1	1
a) LIFT	1,4	6H	TYPE 2N-B (REF. 105484) / TYPE 2N-BN (REF. 10106102)	1	1
b) HANDWHEEL (18 DIA. W/ S.C.A.)	1,15A / 1,15B	6H	/ TYPE 2N-BSN (REF. 106108)	1	1
d) ADAPTER PLATE	9C / 9D	2,3	REF. 105297 (W-0492 & W-1264)	1	1
e) HEX HEAD BOLT, NUT & WASHER	15A / 15B	2	REF. 110627-3 / REF. 110627-4	2/2/4	1
			5/8 NC X 2 1/2 LG.		
8. STEM COVER (SLOTTED W/ MYLAR STRIP)	6,11,14 / 14,19,20	4 / 2,3	REF. 102790 (3 NPT) 42 LG. (MOD. PER 104964)	1	1
55. ALL THREAD STUD	15A / 15B	2	5/8 NC X 13 LG.	24	1
77. HEX NUT	15A / 15B	2	5/8 NC	2	1
78. WASHER	304 SS / 316 SS	2	5/8 NC X 13 LG.	52	1
				52	1
				4	1
				6	1

NOTES: UNLESS OTHERWISE SPECIFIED.

1. (GATE CAPACITY) MAXIMUM SEATING HEAD = 20 FT.; MAXIMUM UNSEATING HEAD = 20 FT. (S.P. = 57,182.4 LB/IN)
2. OPERATING HEAD FROM GATE CENTER LINE: MAXIMUM SEATING HEAD = 10 FT.; MAXIMUM UNSEATING HEAD = 10 FT.
3. LIFT CAPACITY @ 5'100 LBS. PULL = 40 LBS.
4. TURN 0 CCW TO OPEN (RAISE) GATE.
5. 29DEG STUB ACME THREADS (1/4 PITCH, 1/4 LEAD, SL.)
6. CONTRACTOR TO VERIFY OR SUPPLY
7. DIMENSION INCLUDES GROUT PAIL THICKNESS
8. CONTRACTOR TO PROVIDE HILTI HIT E-500 V3 (WET OR DRY CONDITIONS) OR EQUAL EPOXY FOR ANCHORS
9. ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED
10. CONTRACTOR TO PROVIDE LOTCITE THREAD LOCKER OR APPROVED EQUAL

SHOP NOTE: SEE BUILD PLANS FOR SLIDE DESIGN

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25500 Road 204
Exeter, California 93221
Phone: (559) 562-4000
Website: mcwanepi.com

FOR:

PO:

REF:

ENG:

Description:

36 x 36 WATERMAN SS-250 SLIDE GATE

SS-251-D036036088-1.0-304FYNN-A1.00R304OO00AAYOB304304

REV.NO	DATE	BY	JOB NO.	PROJECT ASSISTANT
REV.NO	DATE	BY	QUOTE NO.	DRAWN BY
REV.NO	DATE	BY	QUOTE ITEM NO.	SHEET
REV.NO	DATE	BY	SCALE	DATE
REV.NO	DATE	BY	DRAWING NO.	

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