

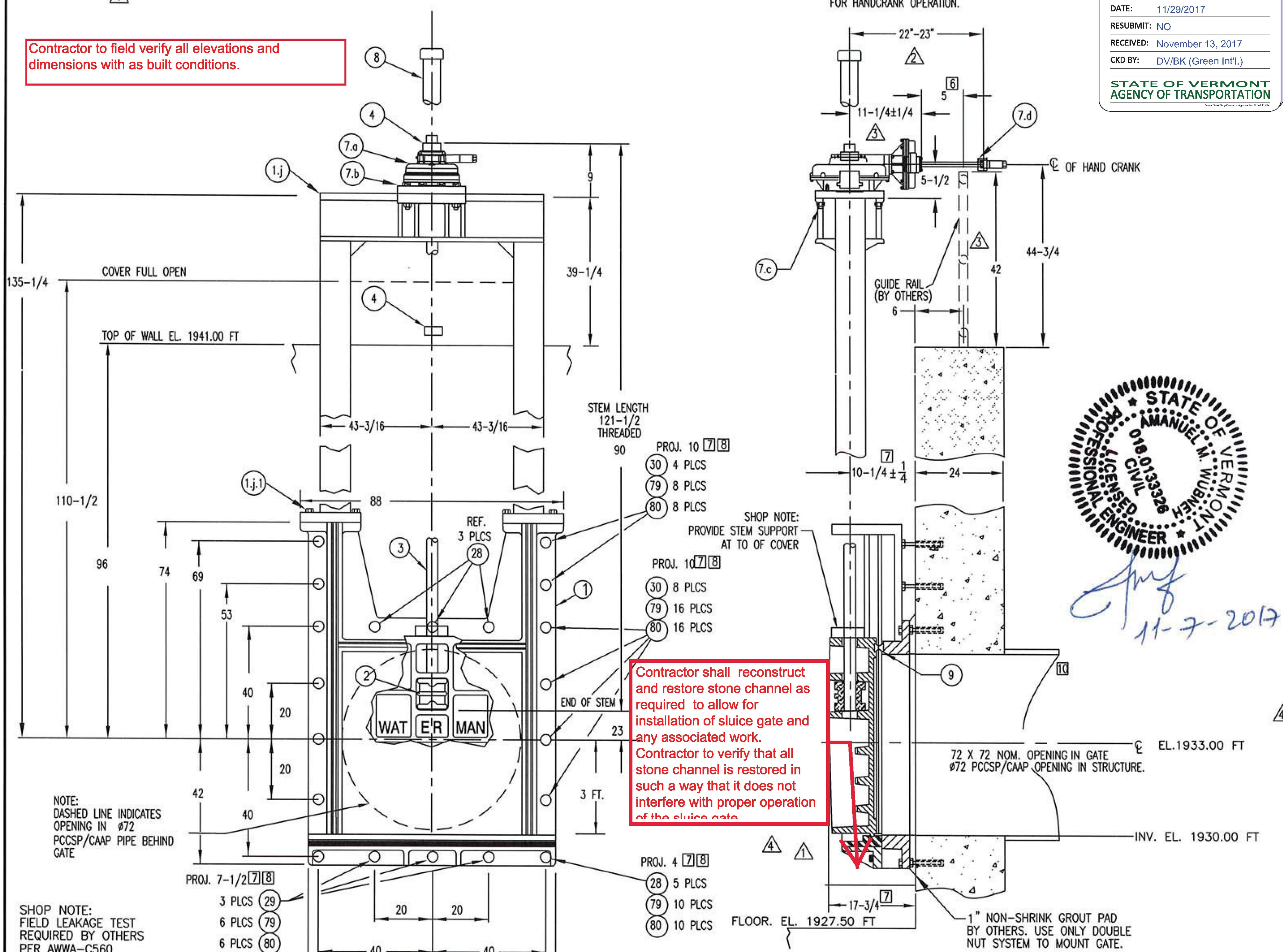
EMBEDDED DEPTH FOR ALL THREADED STUDS			
DIAMETER	EMBEDDED DEPTH	HOLE DEPTH	HOLE DIA.
3/4	14	11-1/4	7/8

Contractor to confirm in the field that adequate clearance will be provided.

**Approved AsNoted**  
 BY: Ken Upmal  
 DATE: 11/29/2017  
 RESUBMIT: NO  
 RECEIVED: November 13, 2017  
 CKD BY: DV/BK (Green Intl.)  
 STATE OF VERMONT  
 AGENCY OF TRANSPORTATION

MATERIAL KEY	FINISH KEY	PAINT KEY
1. CAST IRON:ASTM A-126 CL. B 4. MANG. BRZ.:ASTM B-584 AL. C86500 5. NAVAL BRZ.:ASTM B-21 AL. C48200	1. AS CAST 2. MILL 3. MACHINED 4. GALVANIZE-ASTM A-123 5. GALVANIZE-ASTM A-153 6. SEE PAINT KEY 7. ZINC PLATED	6E BLAST CLEAN PER SSPC-SP10 PRIME (1) CT (3 MILS) & PAINT (2) CTS (4 MILS/CT) TDFT-11 MILS POLYAMIDE EPOXY COLOR: GRAY 6H-L VENDOR PRIME COAT (2) CTS POLYAMIDE EPOXY PAINT & (1) CT POLYURETHANE ENAMEL (TDFT-7 MILS) COLOR: GRAY 6H BLAST CLEAN PER SSPC-SP6 (2) CTS POLYAMIDE EPOXY PAINT & (1) CT POLYURETHANE ENAMEL (TDFT-7 MILS) COLOR: GRAY

Contractor to field verify all elevations and dimensions with as built conditions.



Contractor shall reconstruct and restore stone channel as required to allow for installation of sluice gate and any associated work. Contractor to verify that all stone channel is restored in such a way that it does not interfere with proper operation of the sluice gate.

ITEM DESCRIPTION	MATERIAL KEY	FINISH KEY	PART NO. OR SIZE (FOR WATERMAN USE ONLY)	QTY/ GATE	TOTAL QTY
1. SLUICE GATE ASSEMBLY - 72x72 QS-5000-F	-	-	REF. 100103	1	1
a) FRAME	1	6E	W-5477-01-01	1	1
b) COVER	1	6E	W-5480-02-01	1	1
c) SEAT	5	2	1-1/8 IN WIDE EXT. (REF. 100077)	A/R	A/R
d) GUIDE RAIL	1	6E	W-5096 L&R	1 EA	1 EA
e) SIDE WEDGE ASSEMBLY	-	-	SYSTEM B (REF. 100067)	4 EA	4 EA
1) FRAME WEDGE	4	1,3	W-5004 L&R (REF. 100065)	4 EA	4 EA
2) COVER WEDGE	4	1,3	W-5139 L&R (REF. 100066)	4 EA	4 EA
3) ASSEMBLY / ADJUSTING HARDWARE	15B	2	-	A/R	A/R
f) TOP WEDGE ASSEMBLY	-	-	REF. 100074	4	4
1) TOP WEDGE	4	1,3	W-5006 (REF. 100069)	4	4
2) WEDGE BLOCK BRACKET	4	1,3	W-5007 (REF. 100070)	4	4
3) ASSEMBLY / ADJUSTING HARDWARE	15B	2	-	A/R	A/R
h) FLUSHBOTTOM ASSEMBLY	-	-	REF. 102982	1	1
1) BRACKET	1	6E	W-5156-00-01	1 EA	1 EA
2) SEAL	13	2	76 INCHES (REF. 102981)	1	1
3) SEAL RETAINER	9B	2	-	1	1
4) ASSEMBLY / ADJUSTING HARDWARE	15B	2	-	A/R	A/R
j) YOKE	1	6E	REF. 105207	1	1
1) ASSEMBLY / ADJUSTING HARDWARE	15B	2	-	A/R	A/R
2. THRUST NUT (W-5014)	4	2,3	2-1/2 DIA, 4 TPI, LH (REF. 101224-91) [5]	1	1
3. STEM (RISING)	9B	2	2-1/2 DIA, 4 TPI, LH (REF. 108130-1) [5]	1	1
4. LIMIT NUT	1	5	2-1/2 DIA, 4 TPI, LH (REF. 108222-11) [5]	2	2
7. LIFT ASSEMBLY	-	-	-	1	1
a) LIFT	1,4	6H-L	TYPE 1B7/AS3 12:1 MOD.EXTEND SHAFT INPUT BY 6 INCHES CUSTOM FA16 BASEPLATE (SEE BUILD PLANS) 3/4 NC X 4-1/2 LG. REF. 109919	1	1
b) BASEPLATE	6	6H	-	1	1
c) HEX HEAD BOLT & WASHER	15B	2	-	8/8	8/8
d) HANDCRANK (15 INCH RADIUS)	20,35A	2,3	-	1	1
8. STEM COVER (W/ MYLAR STRIP)	14,35A	2	REF. 102787 (4 in) 78 LG.	1	1
9. STEM COVER ADAPTOR	6,11	4	REF. 104041	1	1
28. ALL THREADED STUD [8]	9B	2,3	3/4 NC X 18 LG.	5	5
29. ALL THREADED STUD [8]	9B	2,3	3/4 NC X 21-1/2 LG.	3	3
30. ALL THREADED STUD [8]	9B	2,3	3/4 NC X 24 LG.	12	12
79. HEX NUT	15B	2	3/4 NC	40	40
80. WASHER	316 SS	2	3/4 DIA.	40	40

NOTES: UNLESS OTHERWISE SPECIFIED.  
 1. (GATE CAPACITY) MAXIMUM SEATING HEAD = 51 FT.; MAXIMUM UNSEATING HEAD = 20 FT.  
 2. OPERATING HEAD FROM GATE CENTER LINE: SEATING HEAD = 15 FT.; UNSEATING HEAD = 15 FT. [8]  
 3. LIFT CAPACITY = 15340 LBS @ 25 LBS PULL.  
 4. TURN HANDWHEEL CCW TO OPEN (RAISE) GATE.  
 5. 29' MODIFIED STUB ACME THREADS.  
 6. CONTRACTOR TO VERIFY OR SUPPLY.  
 7. DIMENSION INCLUDES GROUT PAD THICKNESS.  
 8. CONTRACTOR TO PROVIDE HILTI HIT-RE 500-V3 (WET OR DRY CONDITIONS), HILTI HY-200 (DRY CONDITIONS ONLY); OR EQUAL.  
 9. IMPACT INTO DOVETAIL GROOVE/ MACHINE FLAT TO .002 T.I.R. WITH A 63 FINISH OR BETTER.

SHOP NOTE:  
 FIELD LEAKAGE TEST  
 REQUIRED BY OTHERS  
 PER AWWA-C560  
 ALL MATERIALS IN THIS ORDER ARE  
 BUY AMERICA AND HEAT NUMBER TRACKING IS REQUIRED.  
 GATE ASSEMBLED AND TESTED FOR PROPER  
 ASSEMBLY AND OPERATION. (TEST AND INSPECTION DOCUMENT REQUIRED)

CONTRACTOR TO INSURE THERE  
 WILL NOT BE ANY DEBRIS/ SILT DEPOSIT ON THE SEATING SIDE OF THE GATE

	<b>72 X 72 WATERMAN MODEL          QS-5000-F-Y          SLUICE GATE</b>	FOR:RENAUD BROS.,INC 283 FORT BRIDGMAN RD#2 VERNON,VT 05354 Po:SIGNED QUOTE 8/9/17 REF:AGENCY OF TRANSPORTATION	REV.NO. [4] DATE NOV. 07, '17 AMW BY FS JOB NO. M028960C PROJECT MANAGER FRANK SOTO
		REF:AGENCY OF TRANSPORTATION	REV.NO. [3] DATE SEPT. 05, '17 AMW BY FS JOB NO. WQ17-H-28960C DRAWN BY AMW CHECK'D BY REM ENGINEER AMW SHEET 1 OF 1
			REV.NO. [2] DATE AUG. 31, '17 AMW BY FS SCALE NTS DATE AUG. 18, '17
			REV.NO. [1] DATE AUG. 29, '17 AMW BY FS DRAWING NO. RB-17-0487

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