

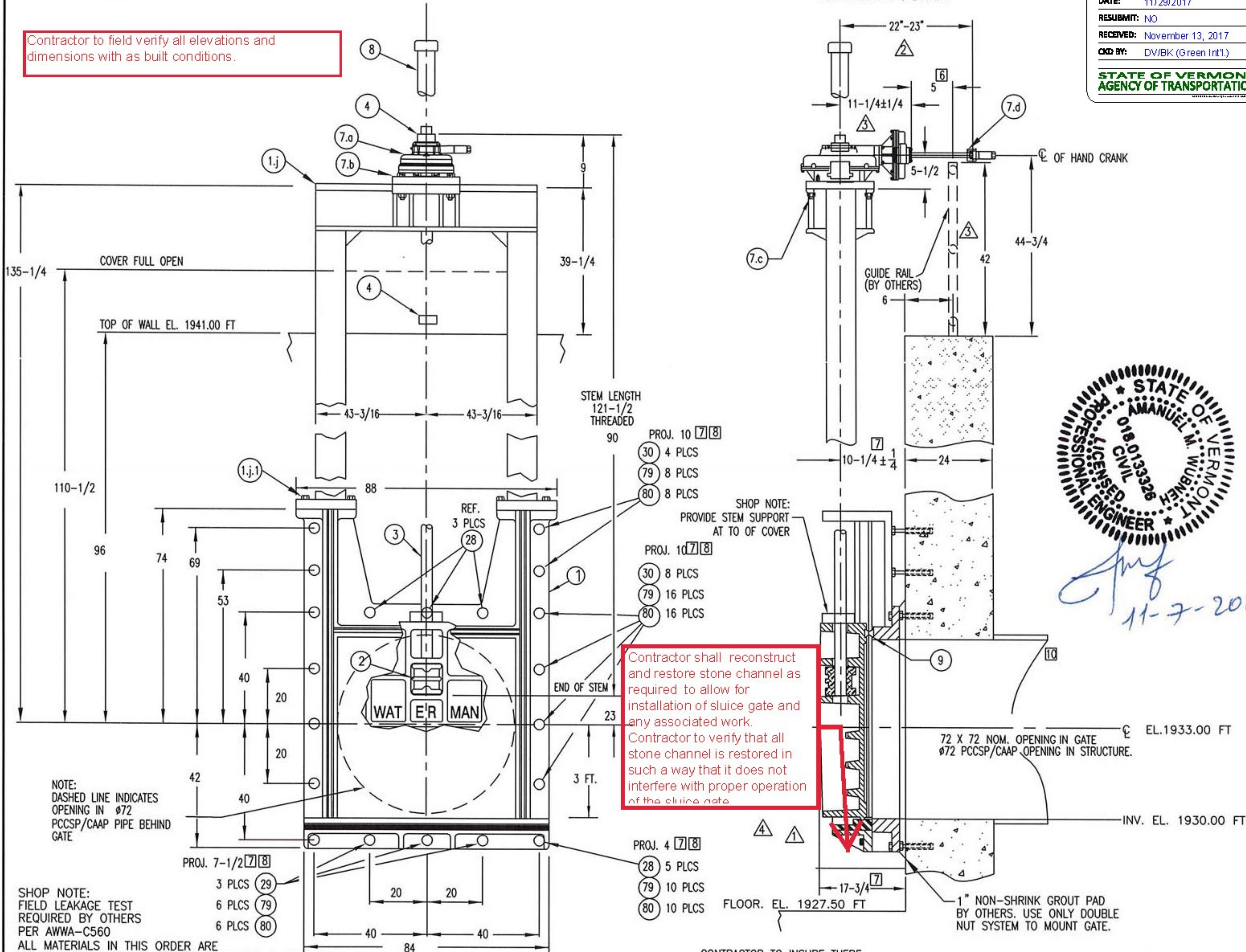
| EMBEDDED DEPTH FOR ALL THREADED STUDS | | | |
|---------------------------------------|----------------|------------|-----------|
| DIAMETER | EMBEDDED DEPTH | HOLE DEPTH | HOLE DIA. |
| 3/4 | 14 | 11-1/4 | 7/8 |

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

NOTE: HANDRAIL BY OTHERS (NOT SHOWN) CONTRACTOR TO ENSURE CLEARANCE FOR HANDCRANK OPERATION.

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

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



| 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 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. 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 | 1 EA |
| d) GUIDE RAIL | 1 | 6E | W-5096 L&R | 1 | 1 |
| e) SIDE WEDGE ASSEMBLY | - | - | SYSTEM B (REF. 100067) | 4 | 4 |
| 1) FRAME WEDGE | 4 | 1,3 | W-5004 L&R (REF. 100065) | 4 | 4 |
| 2) COVER WEDGE | 4 | 1,3 | W-5139 L&R (REF. 100066) | 4 | 4 |
| 3) ASSEMBLY / ADJUSTING HARDWARE | 15B | 2 | - | A/R | 1 |
| 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 | 1 |
| h) FLUSHBOTTOM ASSEMBLY | - | - | REF. 102982 | 1 | 1 |
| 1) BRACKET | 1 | 6E | W-5156-00-01 | 1 | 1 |
| 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 | 1 |
| j) YOKE | 1 | 6E | REF. 105207 | 1 | 1 |
| 1) ASSEMBLY / ADJUSTING HARDWARE | 15B | 2 | - | A/R | 1 |
| 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 IB7/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 | 1 |
| 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. [6]
 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.



72 X 72 WATERMAN MODEL
 QS-5000-F-Y
 SLUICE GATE

FOR: RENAUD BROS., INC
 283 FORT BRIDGMAN RD #2
 VERNON, VT 05354

PO: SIGNED QUOTE 8/9/17
 REF: AGENCY OF TRANSPORTATION

ENG:

| REV. NO. | DATE | BY | JOB NO. | PROJECT MANAGER |
|----------|-------------------|----|---------------|-----------------|
| | | | M028960C | FRANK SOTO |
| 4 | NOV. 07, '17 AMW | FS | WQ17-H-28960C | AMW REM AMW |
| 3 | SEPT. 05, '17 AMW | FS | 1 | 1 OF 1 |
| 2 | AUG. 31, '17 AMW | FS | NTS | AUG. 18, '17 |
| 1 | AUG. 29, '17 AMW | FS | | |

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