TEMPORARY WATER MAIN RELOCATION NOTES:

1. THE PROPOSED TEMPORARY WATER MAIN PLAN CONFIGURATION DOES NOT, AND IS NOT INTENDED TO, COVER ALL REQUIREMENTS FOR THE TEMPORARY WATER MAIN RELOCATION AND IS PROVIDED TO ASSIST THE CONTRACTOR IN DEVELOPING HIS COMPREHENSIVE WATER MAIN RELOCATION PLAN. THE FOLLOWING IS INTENDED TO BE A SUGGESTED CONSTRUCTION SEQUENCE FOR THE WATER MAIN RELOCATION:

   - CONSTRUCT TEMPORARY BRIDGE LOCATED ON THE DOWNSTREAM SIDE OF THE EXISTING STRUCTURE.
   - CONSTRUCT AN APPROXIMATELY 290' LONG, TEMPORARY 10" DI WATER MAIN SUPPORTED UNDERNEATH THE TEMPORARY BRIDGE.
   - CONNECT THE TEMPORARY 10" DI WATER MAIN INTO THE EXISTING 10" DI WATER MAIN VIA TWO LIVE PRESSURE TAPS WITH 10" TAPPING SLEEVES AND TAPPING VALVES (ONE TAPPING SLEEVE AND TAPPING VALVE EACH SIDE OF CROSSING).
   - PRESSURE TEST, FLUSH, AND DISINFECT THE TEMPORARY 10" DI WATER MAIN.
   - ISOLATE THE EXISTING WATER MAIN AND INSTALL ONE, NEW 10" IN-LINE GATE VALVE WITH PLUG ON EACH SIDE OF THE EXISTING BRIDGE. EXISTING WATER MAIN CROSSING TO BE DE-PRESSURIZED DURING INSTALLATION OF THESE TWO, NEW 10" IN-LINE GATE VALVES. INSTALLATION TIME PERIOD TO BE MINIMIZED (FOUR HOUR MAX. ALLOWABLE). COORDINATE WATER MAIN SHUTDOWN WITH ST. JOHNSBURY DEPARMENT OF PUBLIC WORKS.
   - REMOVE EXISTING BRIDGE AND ASSOCIATED EXISTING 10" WATER MAIN.
   - CONSTRUCT NEW BRIDGE WITH NEW 10" DI WATER MAIN SUPPORTED ON THE UNDERSIDE OF THE STRUCTURE.
   - PRESSURE TEST, FLUSH, AND DISINFECT THE NEW 10" DI WATER MAIN.
   - PRESSURIZE THE NEW 10" DI WATER MAIN AND DISCONNECT THE TEMPORARY WATER MAIN.
   - REMOVE TEMPORARY BRIDGE INCLUDING TEMPORARY WATER MAIN.

2. ALL TEMPORARY DUCTILE IRON WATER MAIN PIPE SHALL BE CLASS 52.

3. TEMPORARY DUCTILE IRON WATER MAIN PIPE FOR BRIDGE CROSSING SHALL BE RESTRAINED JOINT PIPE.

4. ALL TEMPORARY DUCTILE IRON PIPE INSTALLED UNDER THE TEMPORARY BRIDGE AND INSTALLED WITH LESS THAN 6' OF COVER SHALL BE PRE-INSULATED WITH 3" OF URETHANE INSULATION.

5. SUBMIT FABRICATION DRAWINGS, INCLUDING PLAN, DETAILS, AND A SEQUENCE OF CONSTRUCTION, IN ACCORDANCE WITH SECTION 105 FOR ALL TEMPORARY WATER MAIN AND APPURTENANCES. PIPE SUPPORTS FOR SUPPORTING THE TEMPORARY WATER MAIN UNDER THE TEMPORARY BRIDGE SHALL INCLUDE DESIGN CALCULATIONS AND SHALL BE STAMPED BY A PROFESSIONAL STRUCTURAL OR CIVIL ENGINEER, REGISTERED IN THE STATE OF VERMONT.

6. PAYMENT FOR NEW 10" DI TEMPORARY WATER MAIN AND ALL APPURTENANCES, INCLUDING REMOVAL OF EXISTING 10" DI WATER MAIN, ABANDONED 8" WATER MAIN, AND TEMPORARY 10" WATER MAIN, WILL BE INCLUDED UNDER ITEM 629.42, TRANSFER TO NEW SYSTEM, WATER SYSTEM.

7. UPON COMPLETE INSTALLATION OF THE NEW 10" DI TEMPORARY WATER MAIN INCLUDING FLUSHING, PRESSURE TESTING, AND DISINFECTION, CONTRACTOR SHALL CUT THE EXISTING 10" DI WATER MAIN AND INSTALL A NEW PERMANENT 10" GATE VALVE WITH VALVE BOX, END CAP, AND THRUST RESTRAINT AT EACH CUT END. COORDINATE SYSTEM SHUT DOWN AND ISOLATION BETWEEN EXISTING VALVE #1 AND VALVE #2 WITH THE TOWN OF ST. JOHNSBURY DEPARTMENT OF PUBLIC WORKS AND THE ENGINEER PRIOR TO INSTALLATION. A MAXIMUM SHUT DOWN PERIOD OF 4 HOURS WILL BE ALLOWED TO PERFORM INSTALLATION OF BOTH NEW GATE VALVES AND END CAPS.

8. ALL TEMPORARY RELATED WATER MAIN PIPING AND APPURTENANCES SHALL BE REMOVED AFTER THE NEW PERMANENT WATER MAIN IS PLACED INTO SERVICE.

ITEM 900.620 SPECIAL PROVISION
(TAPPING SLEEVE AND VALVE WITH VALVE BOX, ALL INCLUSIVE) (10"X10")

STA 15+85, LT.
STA 18+10, LT.

ITEM 900.620 SPECIAL PROVISION
(GATE VALVE WITH VALVE BOX, ALL INCLUSIVE) (10")

STA 15+90, LT.
STA 18+05, LT.

WATER SERVICE:

ITEM 900.620 SPECIAL PROVISION
(EXTENSION SERVICE BOX AND CURB STOP, ALL INCLUSIVE) (1")

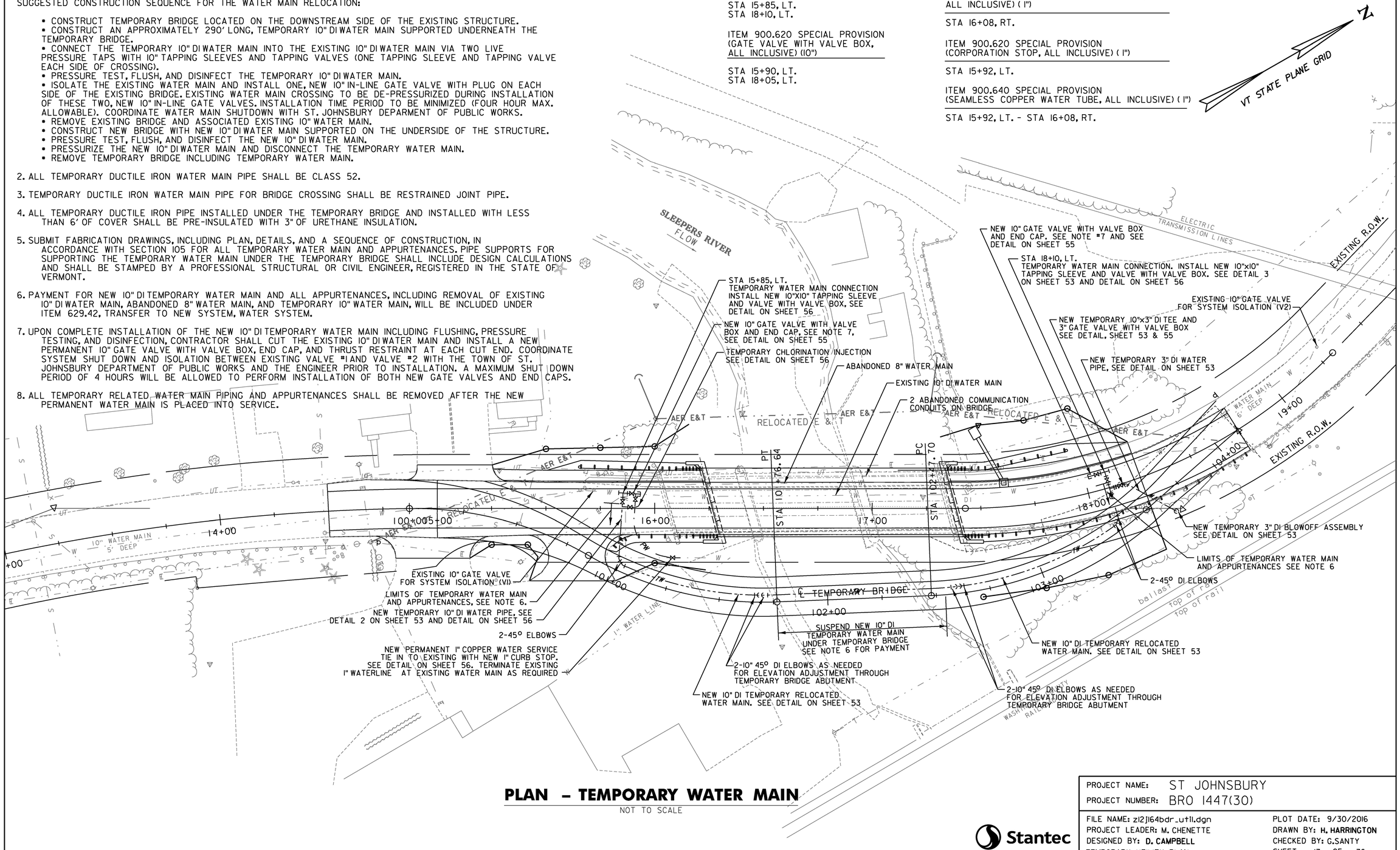
STA 16+08, RT.

ITEM 900.620 SPECIAL PROVISION
(CORPORATION STOP, ALL INCLUSIVE) (1")

STA 15+92, LT.

ITEM 900.640 SPECIAL PROVISION
(SEAMLESS COPPER WATER TUBE, ALL INCLUSIVE) (1")

STA 15+92, LT. - STA 16+08, RT.



PLAN – TEMPORARY WATER MAIN

NOT TO SCALE

Stantec

PROJECT NAME: ST JOHNSBURY	
PROJECT NUMBER: BRO 1447(30)	
FILE NAME: z12j164bdr_util.dgn	PLOT DATE: 9/30/2016
PROJECT LEADER: M. CHENETTE	DRAWN BY: H. HARRINGTON
DESIGNED BY: D. CAMPBELL	CHECKED BY: G.SANTY
TEMPORARY UTILITY PLAN	SHEET 17 OF 76