

Project Data Sheet

Haley and Ward, Inc.

Updated: 12/13/16 9:16 AM

Please remember that this information is provided as a convenience. Refer to the actual bid documentation for the most reliable project bid information.		Contact: Helaine Goldman Phone: (978) 648-6025 Email: hgoldman@haleyward.com
Title: Water Treatment Plant Backwash Tank		Contract No. W-144
Owner: Board of Selectmen		Location: 1080 Worcester Street, Natick
General Bid Date: Bid Date: Thursday, December 15, 2016 @11:00 A.M.		Sub-Bid Date:
Latest Addendum No.: Addendum No. 2		Latest Addendum Issue Date: 12/13/16
Addendum No. 1 – Issued 12/12/16		
Plans Deposit: \$50.00 (Refundable)	Mail Fee: \$25.00 (Non Refundable)	Deposit and Fees to be separate checks made payable to Haley and Ward, Inc. Office hours for specification and plan pick-up: M-F 8 to 4:30
Project Description: The Work for this project consists of the installation of a new stainless steel backwash tank along with the appropriate piping, gate valves, and fittings to connect the tank to the existing backwash system at the Springvale Water Treatment Facility located at 1080 Worcester Street (Route 9), Natick Massachusetts. Work also includes installation of a gravity sewer.		
Additional Information: Plans and specifications are available for a free download by contacting Haley and Ward, Inc., and are available for pickup at Haley and Ward, Inc.		
Pre-Bid Meeting: A voluntary pre-bid meeting will be held on Thursday, December 8, 2015 @9:00 A.M. at the Springvale site, 1080 Worcester Street.		

Plan Holders List:

The Maher Corporation
192 Pleasant Street
Rockland, MA 02370

Alstor Tanks
13516 Byers Road
Chesterville, Ontario, K0C 1H0
Canada

Paint Bid Tracker
2100 Wharton Street Suite 310
Pittsburgh, PA 15203

Aqua Line Utility, Inc.
1283 Washington Street
Weymouth, MA 02189

Pride Environmental
P.O. Box 547
E. Taunton, MA 02718

Methuen Construction
144 Main Street
P.O. Box 980
Plaistow, NH 03865

Winston Builders Corporation
P.O. Box 990
Westboro, MA 01581

Construction Journal
400 SW 7th Street
Stuart, FL 34994

Dankris Builders Corp.
6 High Street
Plainville, MA 02762

Construct Connect
30 Technology Parkway So. Suite 100
Norcross, GA 30092

R. Zoppo Corp.
160 Old Maple Street
Stoughton, MA 02072

Projectdog
18Graf Road Unit 8
Newburyport, MA 01950

Concrete Systems, Inc.
9 Commercial Street
Hudson, NH 03051

Barbato Construction Co., Inc.
P.O. Box 1259
155 E. Grove Street
Middleboro, MA 02346

EV Systems New England, LLC
P.O. Box 630
Stockbridge, MA 01262

Statewide Aquastore
6010 Drott Drive
Syracuse, NY 13057

LaFleur Electrical Company, Inc.
6 Elm Street, P.O. Box 77
Auburn, MA 01501

R.J. Forbes Painting Contractor, Inc.
228 O'Neil Boulevard
Attleboro, MA 02703

Dodge Data & Analytics
3315 Central Avenue
Hot Springs, AR 71913

Gayle Corporation
P.O. Box 542
Berwyn, PA 19312

J. D'Amico, Inc.
10 York Avenue
Randolph, MA 02368

ADDENDUM NO. 2

DATED

DECEMBER 13, 2016

NATICK, MASSACHUSETTS
BOARD OF SELECTMEN

CONTRACT NO. W-144

WATER TREATMENT PLANT BACKWASH TANK

TO ALL BIDDERS OF RECORD:

This Addendum shall be part of the Contract Documents as provided in the Instructions to Bidders of Contract No. W-144. Acknowledgment of receipt of the Addendum shall be made by inserting its number on Page 1 of the General Bid Form. Failure to do so may subject the bidder to disqualification.

Correction to the Answer to Question #4 in Addendum #1, regarding other tank manufacturer that have completed bolted stainless steel tanks.

Delete "Construct Connect" and **insert** "EV Systems New England, LLC."

Clarification statement for the Plumbing work inside the existing Garage.

Contractor to core through existing garage foundation, where shown on the drawings, at a minimum depth of 5 feet, which enters the mechanical room, where the existing water service is located. Contractor to install PE water service through the wall and provide watertight seal between opening and PE pipe. Contractor to install PE to copper transition fitting and install 1" copper down the wall in the mechanical room, approximately 5 feet and cut-in a new 1" copper tee, 1" ball valve on the new branch line and 1" ball valve on existing branch line. Contractor to install required pipe anchors to concrete wall. Contractor to install required horizontal run of new 1" copper and water meter connectors in mechanical room for the town supplied water meter and connect to the proposed PE water service to the proposed vault.

Drawing SD1 Backwash/sludge Vault: **Delete** proposed 5/8" water meter furnished by owner and one of two ball valves from the detail. Water meter to be installed in the mechanical room inside the Garage.

END OF ADDENDUM

ADDENDUM NO. 1

DATED

DECEMBER 9, 2016

NATICK, MASSACHUSETTS
BOARD OF SELECTMEN

CONTRACT NO. W-144

WATER TREATMENT PLANT BACKWASH TANK

TO ALL BIDDERS OF RECORD:

This Addendum shall be part of the Contract Documents as provided in the Instructions to Bidders of Contract No. W-144. Acknowledgment of receipt of the Addendum shall be made by inserting its number on Page 1 of the General Bid Form. Failure to do so may subject the bidder to disqualification.

Question from a plan holder: What is the estimated date suppliers would be receiving purchase orders?

Answer: Project timelines will be the responsibility of the Contractor's project manager. The Owner will not issue the Notice To Proceed until an original contract with the successful bidder is signed by all parties, and has been approved by both Town Counsel and the Comptroller. The Contract Documents detail the maximum timelines for the contract signing process, specifically Section 00100 Instructions to Bidders.

Pre-Bid site meeting was held on December 8, 2016 with four (4) prospective bidders attending. The following are the attendees and the questions that were asked and answered at the pre-bid.

Scott Gambrazzio: Pride Environment
Larry Harris: LaFlaur Electric
Stan Carter: R. Zoppo corporation
Dennis Baril: Dankris builders

- Q1. There is a new paved trench in the driveway near the proposed sewer, what was installed and at what depth?
A1. Town installed a supernatant by-pass line. Depth of pipe was approximately three (3) feet.
- Q2. The inspection of the existing tank requires interior cleaning, how much sludge is present. and where does the sludge get discharged?
A2. During the site meeting the shell hatch was opened and the sludge on the floor was approximately 2-3" at the wall and 1" near the center of the tank.
- Q3. The inspection of the existing tank requires interior cleaning, where does the sludge get

discharged?

- A3. Contractor to complete required material testing and dispose of the sludge appropriately. Sludge consists mainly of iron and manganese that was removed from potable water through greensand pressure filters.
- Q4. Is Alstor Tanks, the tank manufacturer that the new tank specification is written around, the only approved company that can perform the existing tank inspection and install the hatch in the existing tank shell?
- A4. No. There are other stainless steel tank manufacturers that can complete the existing tank work and the new tank work provided they have previous bolted stainless steel tank installations. We are aware of two other tank manufacturers that have completed bolted stainless steel tank installations and are on plan holder's list; Statewide Aquastore and Construct Connect.
- Q5. Is there a time restraint on taking the existing tank offline?
- A5. Yes, the existing tank cannot be offline for more than 2 days unless the new tank is on-line. This includes the valve and pipe cut-in to the existing backwash water line.
- Q6. Are new electrical conduits required for proposed signals to the Town's electrical panel.
- A5. Yes. New conduits are required and are to be installed in the attic, not on the ceiling.
- Q7. Are bidders required to submit a tank and foundation design with their bid?
- A7. No. Tank and foundation design is the responsibility of the tank manufacturer contracted by the selected Contractor. We will clarify this in an addendum.
- Q8. What happens to the surplus soil excavated for the tank foundation?
- A8. Contract Documents place disposal responsibility on the Contractor, however we will confirm with Owner that they do not want surplus material.
- Q9. Will Town permits be required and will there be a fee?
- A9. Yes, electrical and building permits are required. All Town permit fees will be waived.
- Q10. If repairs are required on the existing tank, how will they get completed.
- A10. If repairs are recommended, repairs may be authorized under a change order, if funds area available.

In Section 00300 delete page 3 and insert the attached page 00300-3, to delete Bid Items 7, 8 & 9. All costs associated for additional rebar and supports, if necessary based on tank design by tank manufacturer shall be included in the bid price.

In Section 00510 page 3 delete Contract Items 7, 8 & 9.

In Section 02220, Excavation, Backfill and Compaction, page 02220-5 paragraph 3.4 D.1 "Surplus Material" delete "all excess material shall become the property of the Contractor" and insert "all excess gravel and loam to be stockpiled at the site and become the property of the Owner, all other material to become the property of the Contractor"

In Section 02668, Water Piping, Valves, Fittings and Appurtenances, page 02668-2 paragraph 2.2 Valves A. 1. Insert at the end of the sentence after "Class 150B" the following
"and shall be Mueller Lineseal III as required by Town of Natick Water Department Standard including a stainless steel disk"

In Section 13205, Reuse Water Storage Tank, delete second page labeled 13205-6, after page 1 and replace with the attached page labeled 13205-2.

In Section 13205, Reuse Water Storage Tank, page 13205-2 paragraph 1.3 F. delete the word “stainless” where it appears after the word “bolted” and before the word “steel” in the first sentence.

In Section 13205, Reuse Water Storage Tank, page 13205-2 and on the Contract drawings: Stainless Steel knuckle style roofs and Aluminum Dome style roofs are acceptable.

In Section 13205, Reuse Water Storage Tank, page 13205-2 paragraph 1.3 C. & E. add the word “bolted” after the word “Alternate” in the first sentence.

In Section 13205, Reuse Water Storage Tank, page 13205-3 paragraph 1.4 A., B. & C. replace all references to “Bidder” and “Bidder’s” with “Contractor” or “Contractor’s”.

In Section 13205, Reuse Water Storage Tank, page 13205-5 paragraph 2.4 delete heading “AISC DESIGN LOADS” and replace with “AWWA DESIGN LOADS”.

In Section 13205, Reuse Water Storage Tank, page 13205-5 paragraph 2.4 delete paragraphs B, D&E and replace with the following.

- B. *Wind Loads (AWWA D103-09)*
 - 1. *Basic Wind Speed 100 mph*
 - 2. *Importance Factor 1.15 (I_w)*
 - 3. *Exposure Category C.*

- D. *Snow Load*
 - 1. *Ground Snow Load 55 PSF*
 - 2. *Importance Factor 1.2 (I_s)*
 - 3. *Thermal Factor 1.2” (C_t)*
 - 4. *Exposure Factor 1.0 (C_e)*

- E. *Seismic Design*
 - 1. *Design per AWWA D103-09/IBC 2009 as modified by the 8th Edition of the Massachusetts Code*
 - 2. *Map spectral Response*
 - a. *S_s : 0.270*
 - b. *S_1 : 0.067*
 - 3. *Importance Factor of 1.5 based on Category IW (I_g)*
 - 4. *Site Class: D (Confirmed by Geotechnical report furnished by Owner prior to design submittals)*
 - 5. *Long Period Transition Period 6 (T_L)*

In Section 13205, Reuse Water Storage Tank, page 13205-6 paragraph 2.10 A.1.a. delete “9.5” and replace with “0.5”.

In Section 15100, Valves and Appurtenances, page 15100-2 paragraph 2.1 B.5 delete “Disc: ductile iron edge meeting the requirements of ASTM A365 with stainless steel edge.” and insert “Disc: to be solid stainless steel.”

In Section 15100, Valves and Appurtenances, page 15100-2 paragraph 2.1 B.6 delete “Seat: Teflon” and insert “Seat: EDPM”

Drawing G1: See attached revised G1 drawing. The revision is the addition of the four (4) boring locations.

Drawing M1, PROPOSED BACKWASH TANK MANWAY detail: Delete the words “GALVANIZED STEEL” and replace with “STAINLESS STEEL”

Drawing M1, PROPOSED BACKWASH TANK ELEVATIONS detail: Delete the measurement “4’-6” ” from tank floor to top of 6” pipe.

Drawing E-1 Proposed Tank Fill & Drain Valve Control Panel detail: insert proposed tank1 & 2 level displays into wiring diagram, including power connections.

END OF ADDENDUM

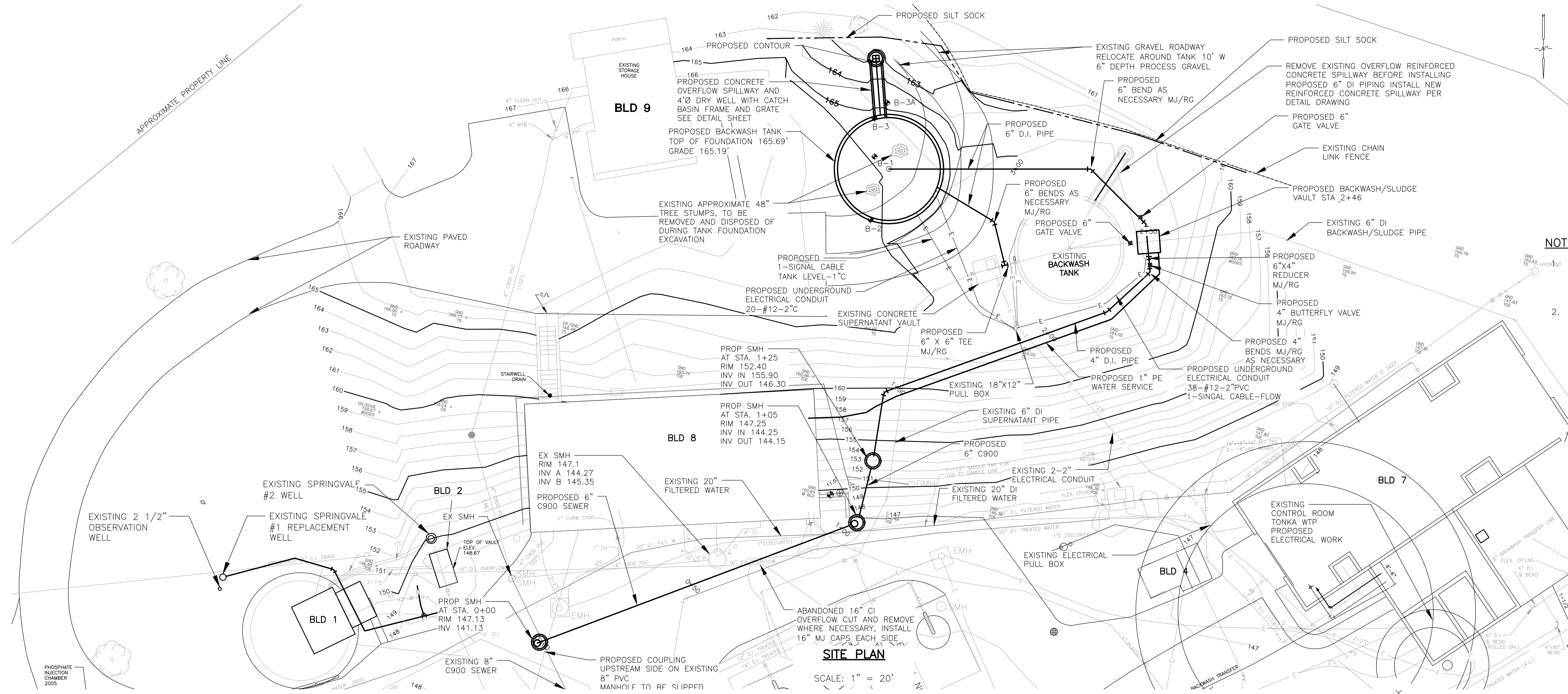
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
6.	For Existing Tank Inspection and Installation of Access Hatch, the total lump sum price of _____	= \$ _____
	(Lump Sum Price in Words)	
	(Unit Price in Figures)	
	TOTAL BID PRICE FOR BID COMPARISON)	= \$ _____

	(Contract Bid Price in Words)	

- C. Design of concrete foundation, specifications for cement and aggregate, and mixing and placing of concrete shall be in compliance with but not limited to ACI Codes 301, 318 and 349, latest revision.
- D. Concrete work shall comply with all applicable portions of ACI 301.
- E. Field and laboratory testing shall be in compliance with Section 01410 of these Specifications.

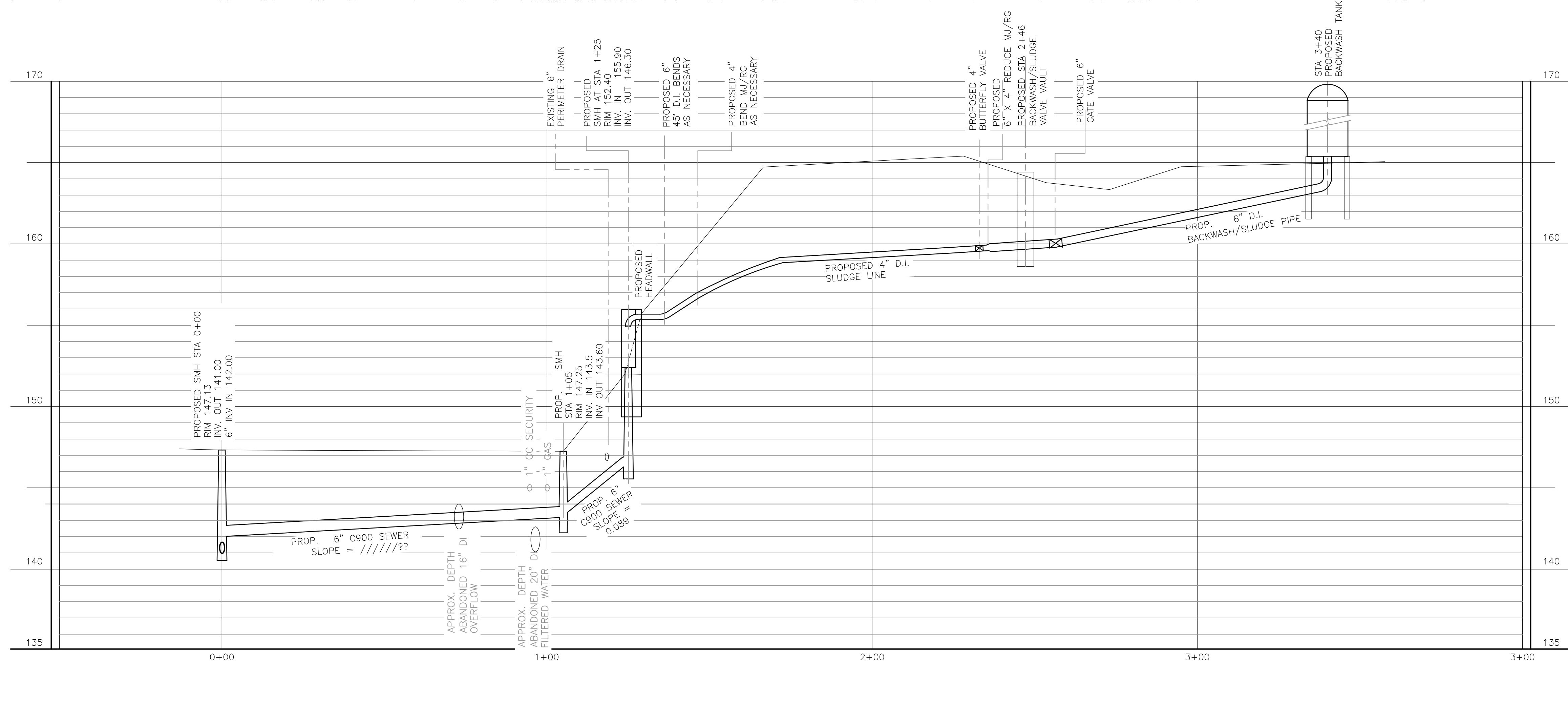
1.3 QUALIFICATIONS OF TANK SUPPLIER

- A. The bidder shall offer a new tank structure as supplied from a manufacturer specializing in the design, fabrication and erection of stainless steel, bolt together tanks. The manufacturer shall employ a staff of full time design engineers, own and operate its steel fabrication facilities.
- B. For purpose of designating type and quality for work in this Section, Drawings and Specifications are based on an Alstor ®Tank as manufactured by Alstor Canada Inc. of Chesterville, Ontario Canada.
- C. Alternate steel tank products, as provided by other manufacturers, will be considered for approval by the Engineer. Manufacturers lacking the experience requirement will not be considered. The Owner's decision or judgment on these matters will be final, conclusive and binding.
- D. Strict adherence to the standards of design, fabrication, erection, product quality, and long term performance, established in this Specification will be required by the Owner and Engineer.
- E. Alternate steel tank suppliers must submit the information at a minimum with the equipment submittal package to be considered as an equal:
 - 1. Typical structure and foundation drawing(s).
 - 2. List of tank materials, appurtenances and tank size.
 - 3. List of five (5) tanks presently in potable water service of equal or greater size and character specified herein, operating satisfactorily for a minimum of five (5) years, including the name and telephone number of Owner and Engineer.
- F. Tank installers shall provide a list of five (5) bolted stainless steel tanks which are at least five (5) years old in potable water service that have been installed by the same tank erector who will construction the tank(s) for this project. The acceptable tank erector will be by the authorized dealer of the tank manufacturer who has been regularly engaged in the erection of steel tanks for at least five (5) years using their own factory-trained employee/erectors and not sub-contractor installers



NOTES:
 1. ALL REQUIRED BENDS ARE NOT SHOWN ON DRAWINGS. FURNISH AND INSTALL BENDS WHERE NECESSARY TO COMPLETE THE INSTALLATION.
 2. ALL MJ FITTINGS AND VALVES TO INCLUDE RETAINER GLANDS.

WETLANDS NOTE
 1. PROVIDE SILT SOCK ALONG FENCE LINE TO PREVENT SILT WASHOUT DOWN TO LAKE.
 2. PROVIDE SILT BASKET IN CATCH BASIN IN DRIVEWAY AT RT 9 TO PREVENT SILT RUNOFF FROM TRENCHES.



PROFILE
 SCALE:
 HORIZ 1" = 20'
 VERT. 1" = 4'

Haley and Ward, Inc.
 63 GREAT ROAD, SUITE 200,
 MAYNARD, MASSACHUSETTS 01754-2097
 PHONE: (978) 648-6025 FAX: (978) 648-6068
 www.haleyward.com

CHECKED	DATE	BY

SHEET NO.:	2 OF 6
CONTRACT NO.:	W-144
SCALE:	AS NOTED
DATE DRAWN:	AUGUST 2016
DRAWN BY:	JWG
FILE NO.:	NAT-423-01.DWG