Date: January 21, 2015

ADDENDUM NO. 1

TO

PLANS AND SPECIFICATIONS

FOR

PROJECT NO. E030277-B

Requisition No. _____

DESCRIPTION OF PROJECT: WATERWORKS IMPROVEMENTS

LOCATION: CHAIN O' LAKES STATE PARK – NOBLE COUNTY, IN

ISSUE DATE: JANUARY 21, 2015

INDIANA STATE AGENCY: DEPARTMENT OF NATURAL RESOURCES

The information contained in this Addendum shall become a part of the basic Specifications, the same as if originally incorporated therein. The original Specifications shall remain in their entirety, except as modified by this Addendum. The items herein shall supersede information in the Specifications.

The following items reflect clarifications to the Specifications for the bid of this project AS PREPARED BY CURRY & ASSOCIATES, INC., ARE HEREBY AMENDED, CLARIFIED OR BOTH.

Robert E. Curry

Robert E. Curry, P.E. January 21, 2015

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Item No. 1:

For purposes of clarification the required construction sequence and timing shall be as follows:

a. Contractor shall install VFD on both wells and install pressure tank for complete water system operation in constant pressure mode while by-passing the softeners prior to April 3, 2015.

b. New raw water main to Well No. 2 shall be installed after its VFD but not later than April 30th.

c. Seven (7) consecutive days is the maximum period of time that the waterworks can be out of operation prior to April 3, 2015. This is the time period between removing the existing pneumatic tanks and having the by-pass constant pressure system operational.

d. Total project completion time is hereby increased to 120 consecutive days from the date of Construction Contract.

Item No. 2:

The construction drawings are hereby revised to correctly read "all existing well pumps and new VFDs are 15 horsepower rather than 20 horsepower".

Item No. 3

This item is for the purpose of clarification as follows:

a. Voltage to submersible motor in Well Number One is 240 Volts

b. Voltage to submersible motor in Well Number Two is 480 Volts.

Item No. 4

For purposes of clarification all bids shall only be submitted in sealed envelopes. Bids electronically submitted will not be considered.

Item No. 5:

Plan sheet No. 7 was inadvertently deleted from the original bidding documents. Please see attached Plan Sheet No. 7 to be added to the originally supplied plan set.

Item No. 6:

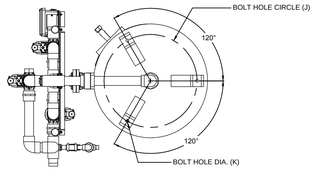
For purposes of information please see attached copy of Pre-Bid Conference Attendance Sheet listing the names and address of all individuals signed in at the Pre-Bid Conference.

Item No. 7:

Attached drawing numbered 5A of 8 shows the piping that Contractor shall construct to achieve by-pass piping until water softeners can be placed in service. The initially installed by-pass piping and pressure tank shall be totally utilized as an integral component of the permanent project piping

END OF ADDENDUM NUMBER ONE

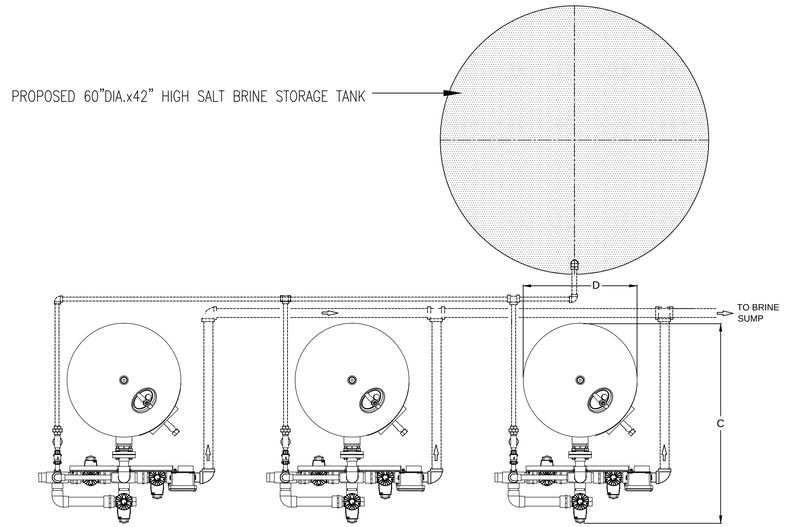
WATER SOFENER SCHEDULE																				
	DIMENSIONS (INCHES)													UNIT DATA (PER TANK)						
CULLIGAN MODEL	WIDTH A	HEIGHT B	DEPTH C	TANK DIA. D	INLET/OUTLET & DRAIN PIPE SIZES E	FLOOR TO INLET F	FLOOR TO OUTLET G	FLOOR TO DRAIN H	FLOOR TO BRINE I	BOLT HOLE CIRCLE DIA. J	BOLT HOLE DIA. K	BRINE TANK DIA. L	BRINE TANK HEIGHT M	MAX. CAPACITY Kgr @ SALT DOSAGE	RESIN VOLUME ft ^{3}	CONTINUOUS FLOW gpm @ 15 psi drop	PEAK FLOW gpm @ 25 psi drop	DRAIN FLOW gpm	TRIPLEX OPER. WT. lbs.	TRIPLEX SHIP. WT. lbs.
HFxN 210 CD	N/A	77.8	45.2	24	2.0	38.6	30.7	38.6	56	18.5	0.813	60	42	210 @ 108	7	84	119	15	5846	2866



BOTTOM VIEW
TANK MOUNTING HOLE PATTERN

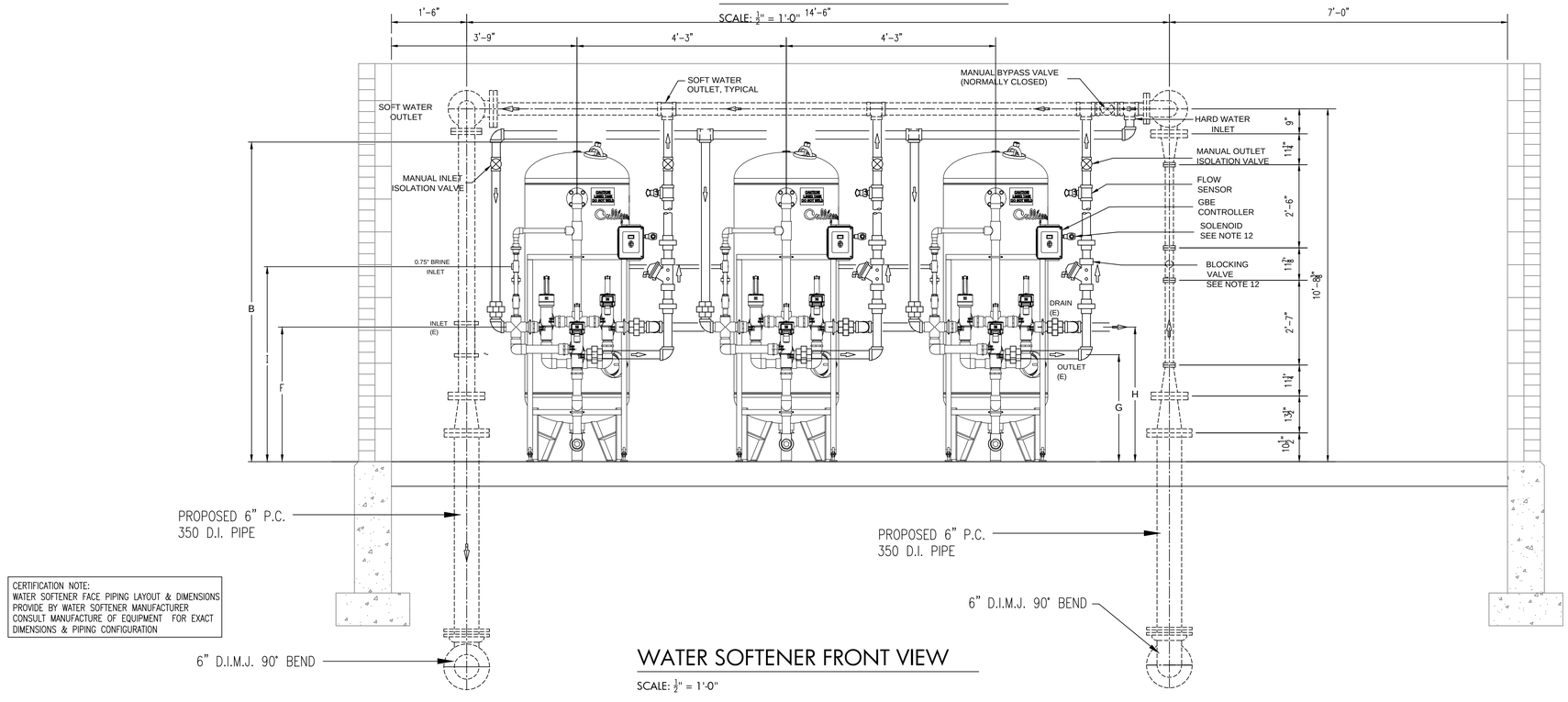
WATER SOFTENER BOTTOM VIEW

SCALE: $\frac{1}{2}$" = 1'-0"



WATER SOFTENER TOP VIEW

SCALE: $\frac{1}{2}$" = 1'-0"



CERTIFICATION NOTE:
WATER SOFTENER FACE PIPING LAYOUT & DIMENSIONS PROVIDE BY WATER SOFTENER MANUFACTURER CONSULT MANUFACTURE OF EQUIPMENT FOR EXACT DIMENSIONS & PIPING CONFIGURATION

WATER SOFTENER FRONT VIEW

SCALE: $\frac{1}{2}$" = 1'-0"

NOTES:

(1) ITEMS SHOWN IN BROKEN LINES TO BE FURNISHED BY OTHERS.

(2) ALL DIMENSIONS ARE ± 1 INCH (25mm) AND SUBJECT TO CHANGE WITHOUT NOTICE.

(3) UNIONS SHOULD BE LOCATED ON INLET AND OUTLET CONNECTIONS OF CONTROL VALVE TO FACILITATE SERVICING.

(4) THE USE OF DISSIMILAR METALS IN A PIPING SYSTEM IS NOT RECOMMENDED. WHERE DISSIMILAR METALS MUST BE CONNECTED IN A WATER SYSTEM. THE USE OF NONCONDUCTIVE (DIELECTRIC) FITTINGS MAY REDUCE GALVANIC CORROSION.

(5) FOR MAXIMUM PROTECTION OF THE CONTROLLER, IT IS RECOMMENDED THAT A DEDICATED 120 VOLT CIRCUIT IS PROVIDED.

(6) ALLOW MAXIMUM DIMENSION POSSIBLE ABOVE SOFTENER FOR FILLING.

(7) OVERALL TANK HEIGHT IS BASED ON STANDARD NON-CODE TANK CONSTRUCTION. SEE ASME TANK HEIGHT ADDER FOR ASME TANKS.

(8) WHEN USING A WATER METER, THERE MUST BE A MINIMUM AMOUNT OF STRAIGHT PIPE BEFORE AND AFTER THE SENSOR. REFER TO THE INSTALLATION INSTRUCTIONS FOR DETAILS.

(9) BRINE TANK DIMENSIONS SHOWN ARE FOR THE BRINE TANK SELECTED FOR USE WITH THIS SYSTEM.

(10) ACCESS OPENINGS SHOWN ON TANK ARE FOR REFERENCE ONLY. QUANTITY, TYPE AND PLACEMENT ARE DEPENDENT ON TANK SIZE.

(11) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATION.

(12) REQUIRED ONLY FOR EXTERNAL BLOCKING FLOW APPLICATION.

REVISIONS	DRAWN BY:		CURRY & ASSOCIATES, INC. CONSULTING ENGINEERS & ARCHITECTS 110 COMMERCE DRIVE DANVILLE, IN 46122 317.745.6995 FAX: 317.745.6985	INDIANA DEPARTMENT OF NATURAL RESOURCES CHAIN O'LAKES STATE PARK PROJECT NO. E030277-B WATERWORKS IMPROVEMENTS	WATER SOFTENER DETAILS	JOB NO.	SHEET NO.
	DATE:						
	CERTIFIED BY:	Robert E. Curry	ROBERT E. CURRY REGISTERED No PE60015078 STATE OF INDIANA PROFESSIONAL ENGINEER			SCALE: AS NOTED	7
	DATE:	DEC. 3, 2014					

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Division of Engineering
402 W. Washington Street
Room W299
Indianapolis, IN 46204
Phone (317) 232-4150
Fax (317) 233-1205

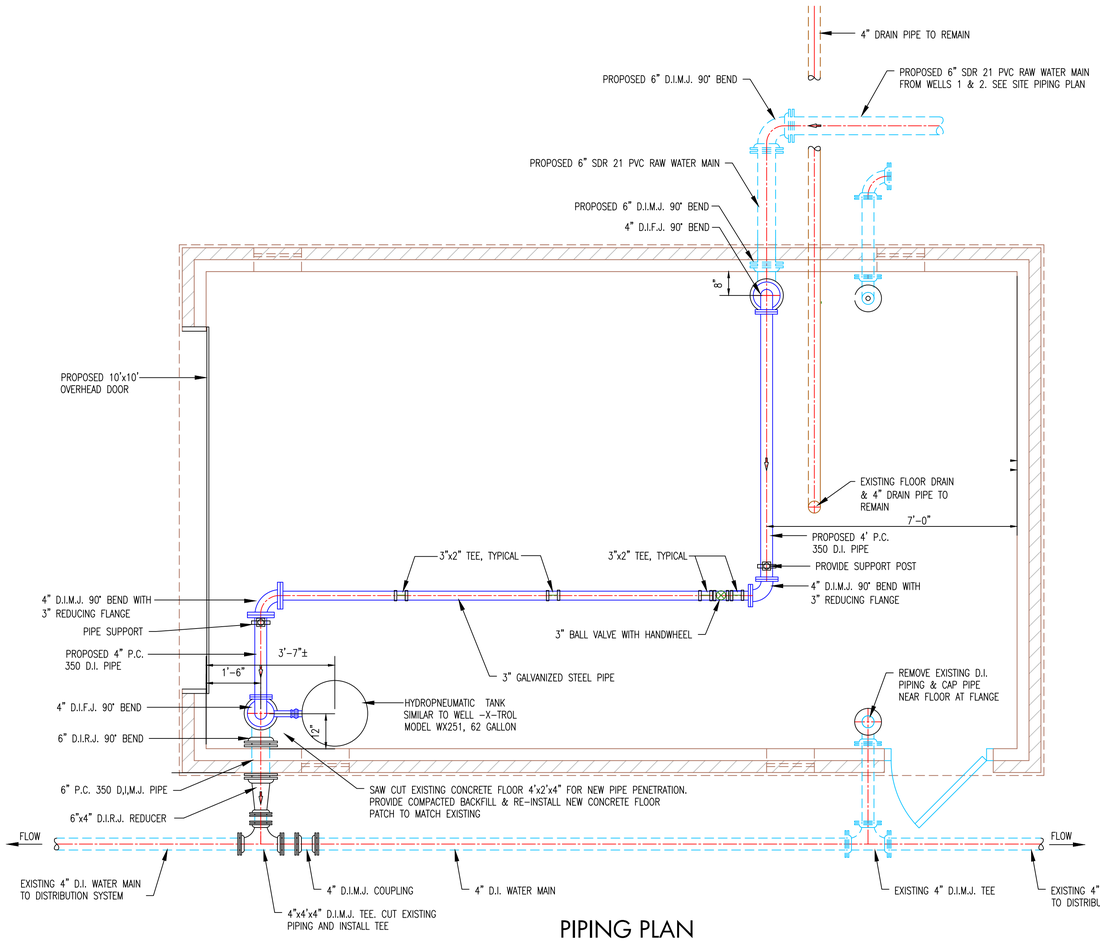
Date: January 20, 2015

Project: Waterworks Improvement
Chain O'Lakes State Park

Owner: State of Indiana DNR
Division of Engineering

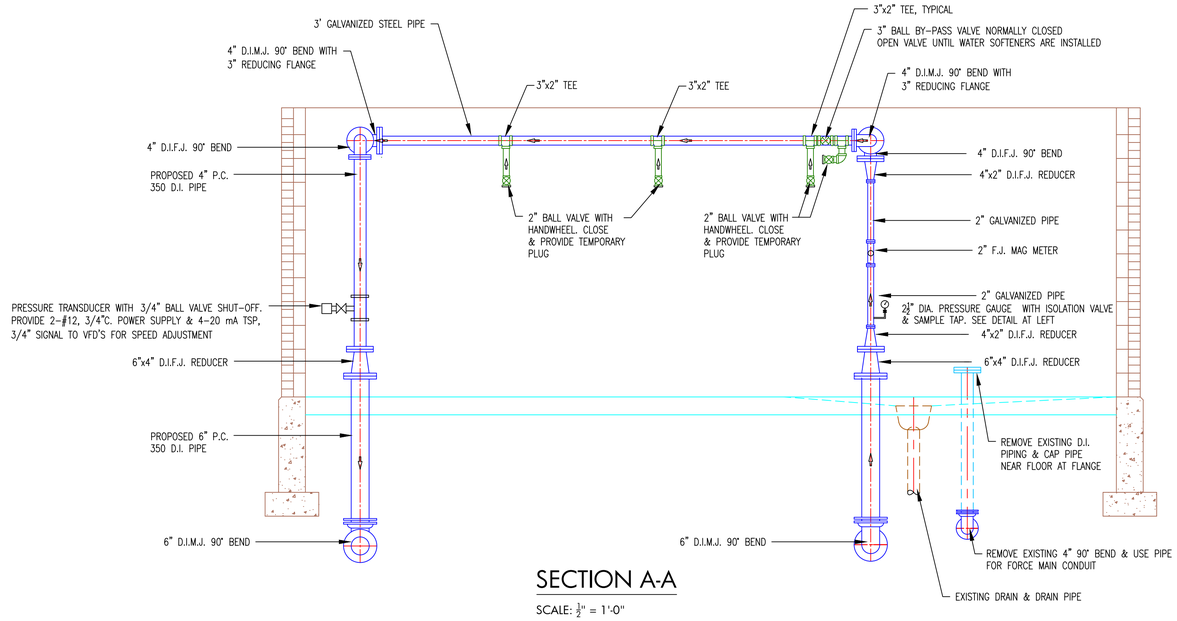
Pre-bid meeting Attendants List

Name	Firm	Phone	E-mail
Michael J. Mathias	IDNR Engr	317.232.4155	MMathias@dnr.in.gov
Mark Weaver	Selge Const. Co.	269.684.0842	mweaver@selgeconstruction.com
Larry Montgomery	MK Betts	7656491294	ldmontgomery57@comcast.net
Eric Kell	Kell Drilling, Inc	(260)750-5037	
Devon Kirk	RE Crosby, Inc	260-432-5114	Pdkirk@recrosby.com
Scott Arnold	L-A Electric	260 497-0520	sdarnold@L-Aelectric.com
Ryan Egolf	IDNR	260-982-2654	regolf@dnr.in.gov
Sam Boggs	COL IDNR	260-6362654	sboggs@dnr.IN.gov
Joe Saggars	HRP Construction	574-271-7800	joes@hrpconstruction.com
Bill Parker	DNR Engineering	317-232-4159	bparker@dnr.in.gov



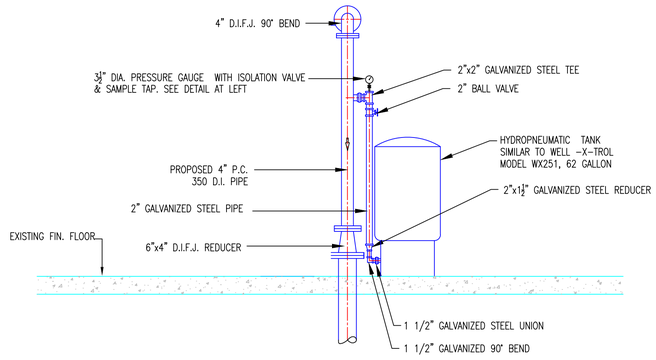
PIPING PLAN

SCALE: $\frac{1}{2}$" = 1'-0"



SECTION A-A

SCALE: $\frac{1}{2}$" = 1'-0"

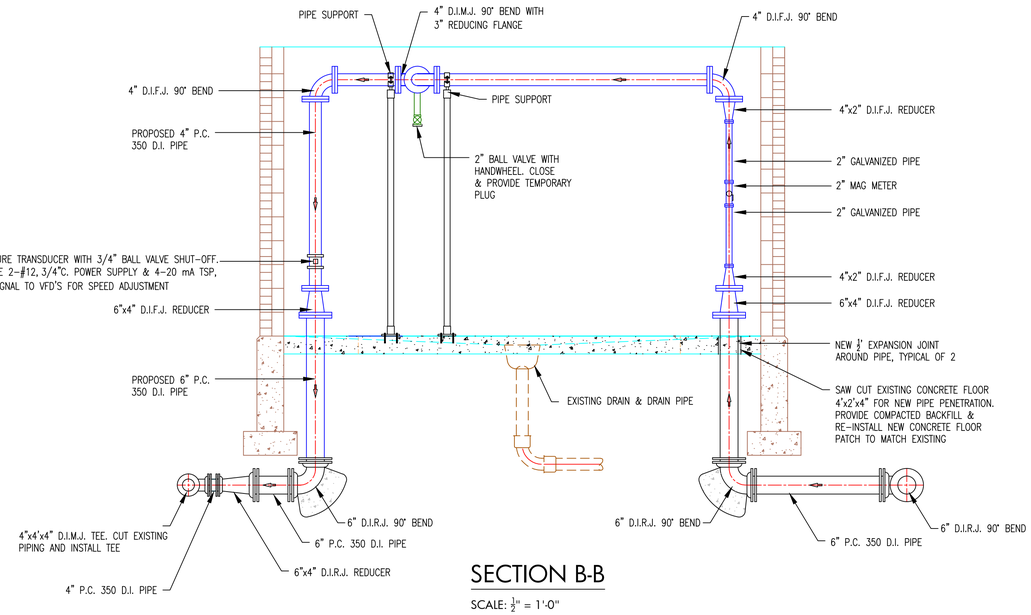


PRESSURE GAUGE & SAMPL COCK DETAIL

NO SCALE

HYDROPNEUMATIC TANK DETAIL

SCALE: $\frac{1}{2}$" = 1'-0"



SECTION B-B

SCALE: $\frac{1}{2}$" = 1'-0"

REVISIONS			
	DRAWN BY:		
	DATE:		
	CERTIFIED BY:	Robert E. Curry	
	DATE:	DEC. 3, 2014	

ROBERT E. CURRY REGISTERED No PE60015078 STATE OF INDIANA PROFESSIONAL ENGINEER

CURRY & ASSOCIATES, INC.
CONSULTING ENGINEERS & ARCHITECTS
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INDIANA DEPARTMENT OF NATURAL RESOURCES
CHAIN O'LAKES STATE PARK
PROJECT NO. E030277-B
WATERWORKS IMPROVEMENTS

BY-PASS PIPING FLOOR PLAN

JOB NO.

SCALE: AS NOTED

SHEET NO. 5A

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