Banner Associates, Inc.
2307 W 57th St, Ste 102
Sioux Falls, SD 57108
Tel 605.692.6342
Toll Free 855.323.6342
www.bannerassociates.com

ADDENDUM | No. 2

PROJECT	WEB Water Treatment Plant Improvements - 2022
BID DATE	1:00 PM Central Time Zone September 12, 2022
BID LOCATION	WEB Water Office 38456 W US Hwy 12 Aberdeen, SD 57401
ISSUE DATE	September 8, 2022
NOTICE	Failure to acknowledge all addenda in the BID may cause rejection of the BID. See Instructions to Bidders.

SCOPE OF THIS ADDENDUM

The following becomes a part of the original project manual and drawings, taking precedence over the items that may conflict. The bidder shall note receipt and make acknowledgment of the Addendum on his/her bid form, incorporating its provision in his/her bid.

PROJECT MANUAL

The following additions, changes and clarifications have been made to the Project Manual.

Section 03 3000 – Cast-In-Place Concrete

Section 2.1 A. 1.

Revise: Portland Cement: ASTM C150, Type ~~V~~ **I/II**, gray. Supplement with the following:

a. Fly Ash: ASTM C 618, Class F.

Section 40 9000 – Process Integration

Section 2.3 B1 i.

Delete

1) Exiting PLCs 1,2,3,4,5,6,7, and 10 shall be replaced with new PLCs
2) Existing HMIs in PLCs 3,4,6,7, and 10 and Filter Consoles (FC) 1 and 4 shall be replaced with new HMIs.

Section 44 6013 – Interior Piping & Valves,

Section 2.4 B:

Add to the end of paragraph 1:

Butterfly valves located on the discharge side of high service pumps shall be rated for a working pressure of 250 psi.

DRAWINGS

The following additions, changes and clarifications have been made to the Drawings.

Drawing Sheet 2.17

New Piping Profiles

Remove: Sheet 2.18

Add: New Drawing Sheet

Revised PROFILE – 36" TW LINE profile and profile notes. Removal of 1 – 36" D.I. M.J. Butterfly Valve.

Drawing Sheet 2.22

New Piping Profiles

Remove: Sheet 2.22

Add: New Drawing Sheet

Revised PROFILE – 24" WR LINE. Removal of 1 – 24" D.I. M.J. Tee.

Drawing Sheet 14.2

Piping Schedule and Notes

Remove: Sheet 14.2

Add: New Drawing Sheet

Addition of pipe fitting designation Number 58, Number 59, and Number 100.

Drawing Sheet 1-4.1

Add:

A wall manway will be added to the interior wall, similar to the exterior wall manway. Manway shall be as detailed in 3/1-4.5.

Drawing Sheets 1-4.1, 1-4.5 and 1-5.2

Tank Ladders:

Clarification: 1 exterior aluminum ladder shall be provided. 2 full height interior aluminum ladders shall be provided (1 in each cell under hatch). 1 interior aluminum ladder shall be provided from wall manway to floor

Drawing Sheet 1-4.8

Detail 3/1-4.8

*Change: Roof System shall change from 60 mil EPDM to **90 mil EPDM**.*

Change: 1" Rigid insulation shall change to ½" Dens Deck or Equal product.

Add: Stainless Steel fascia cap with 4" deep leg and integral drip to protect top corner/edge.

Clarification: Drainage board is not shown – provide where indicated on building section drawings.

Drawing Sheet 1-5.2

Detail 5/1-5.2

Add: Note: Mechanical connections on guardrail shall also be acceptable in accordance with Specification Section 05 5213.

Detail 7/1-5.2

Add: Note: Davit hoist shall be DBI/Sala Model 8518385 or equivalent. One hoist shall be provided that can be moved between the 2 roof primary hatches. Base plate shall be installed at each roof hatch with ladder access into tank.

Drawing Sheet 2-2.3

New Piping Enlarged Plan

Remove: Sheet 2-2.3

Add: New Drawing Sheet

Revised Storm Sewer Keynotes

Drawing Sheet 2-2.4

New Piping Enlarged Plan

Remove: Sheet 2-2.4

Add: New Drawing Sheet

Revised Storm Sewer Keynotes

Drawing Sheet 2-14.1

Lower Level Piping Plan

Remove: Sheet 2-14.1

Add: New Drawing Sheet

Revised piping tags. Added Note 5. Revisions on Sheet 2-14.1 shall also apply to Sheet 2-14.3 and Sheet 2-14.7.

Drawing Sheet 4-8.1

Section Detail 1 / 4-8.1

Change: Roof System Note shall change from 60 mil EPDM to 90 mil EPDM and provide ½" Dens Deck or Equal product.

Section Detail 1 / 4-8.1

Change: Roof Detail Call-Off 3/1-4.6 to read as: "3/1-4.8"

Section Detail 2 / 4-8.1

Change: Roof System Note shall change from 60 mil EPDM to 90 mil EPDM and provide ½" Dens Deck or Equal product.

Section Detail 2 / 4-8.1

Change: Roof Detail Call-Off 3/1-4.6 to read as: "3/1-4.8"

Drawing Sheet 4-14.4

Piping Sections

Remove: Sheet 4-14.4

Add: New Drawing Sheet

Revised piping tags.

Drawing Sheet 5-8.1

Section Detail 1/5-8.1

Change: Roof System Note shall change to read as: " 1" extruded polystyrene insulation fastened to deck, 90 mil EPDM fully adhered – extend down sidewalls 1'-0", 1" extruded polystyrene protection board over top of EPDM."

Section Detail 1 / 5-8.1

Delete: Roof Detail Call-Off 3/1-4.6"

Section Detail 2/5-8.1

Change: Roof System Note shall change to read as: " 1" extruded polystyrene insulation fastened to deck, 90 mil EPDM fully adhered – extend down sidewalls 1'-0", 1" extruded polystyrene protection board over top of EPDM."

Section Detail 2 / 5-8.1

Delete: Roof Detail Call-Off 3/1-4.6

NOTE
The Plan Holders List and Addendums are available on our website at http://www.bannerassociates.com by clicking on **View Bid Information / Project Name / Project Information** link.

Project Manual and Drawing inquiries regarding the work should be directed to:

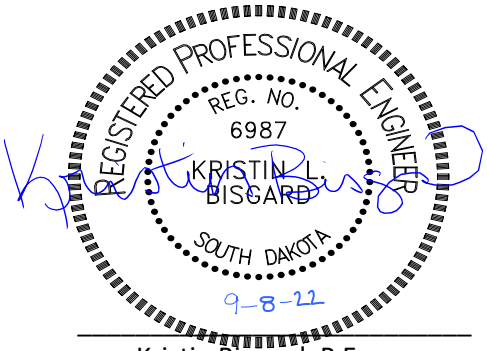
CONTACT PERSON(S)

Banner Associates, Inc.	Tel 1-605-692-6342 | Toll Free 1-855-323-6342	
Kristin Bisgard	Project Manager	kristinb@bannerassociates.com
Bryan Lipp	Process	bryanl@bannerassociates.com
Adam Hanson	Structural Engineer	adamh@bannerassociates.com
Scot Leddy	Civil Site Engineer	scotl@bannerassociates.com
Dave Lorang	Architect	davel@bannerassociates.com
Dennis Rebelein	Controls	dennisr@bannerassociates.com

Subconsultants		
Jonathan Kennedy	Electrical Engineer	Jonathan.Kennedy@WestPlainsEngineering.com
Connor Swiontek	Mechanical Engineer	Connor.Swiontek@WestPlainsEngineering.com

ATTACHMENTS

1. Revised Drawing Sheets
2. West Plains Engineering Addendum #2, dated 9/8/22



Kristin Bisgard, P.E.

WEST PLAINS ENGINEERING, INC.

Addendum

Date: 9/8/2022

To: All Bidders

From: Connor Swiontek, PE

Project: WEB Water Treatment Plant Expansion

Project #: BS20047

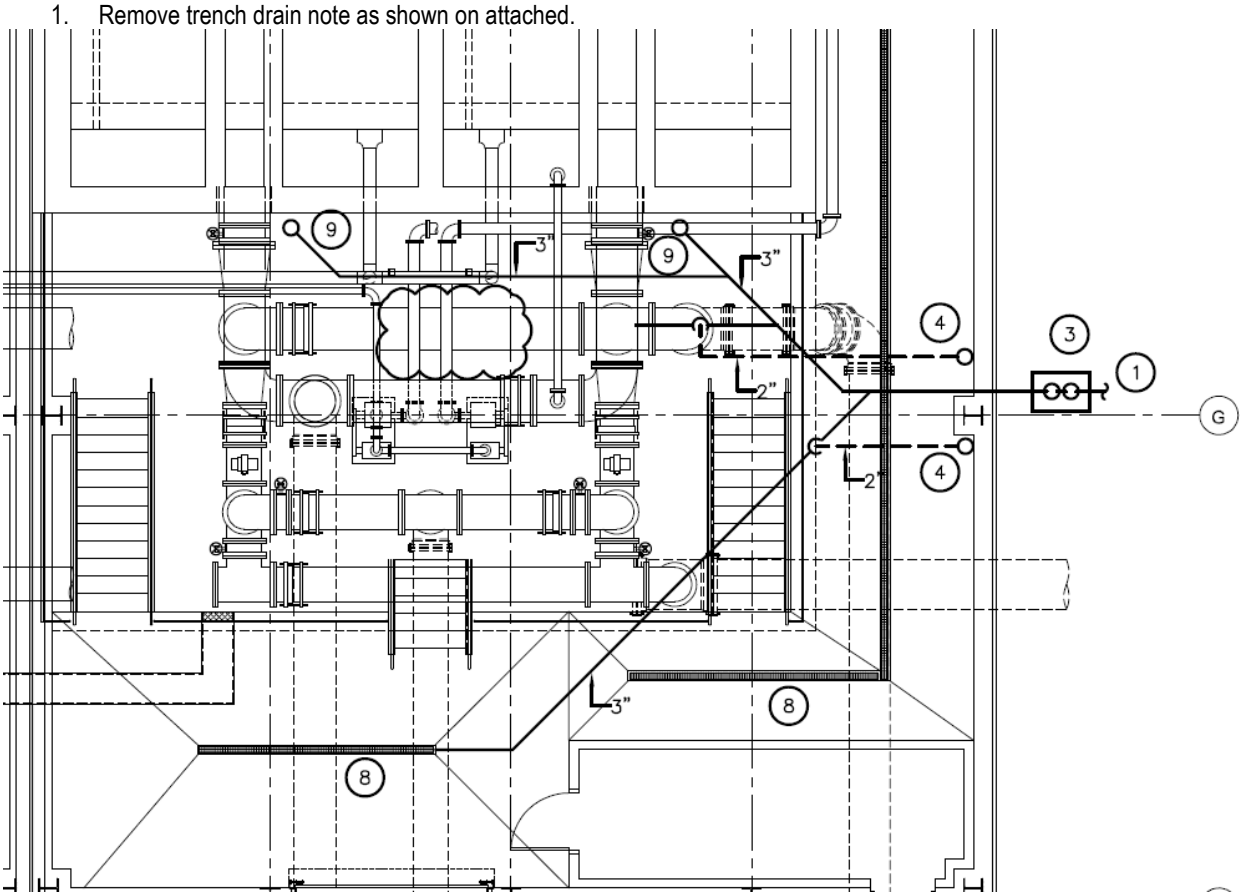
Project Location: Mobridge, SD
Addendum Number: 2

To: All prime contract bidders and all others to whom Drawings and Specifications have been issued by the Engineer. Acknowledge receipt of the Addendum by inserting its number and date on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as follows:

Drawings

Sheet 2-15.3

1. Remove trench drain note as shown on attached.



END OF DOCUMENT – CS

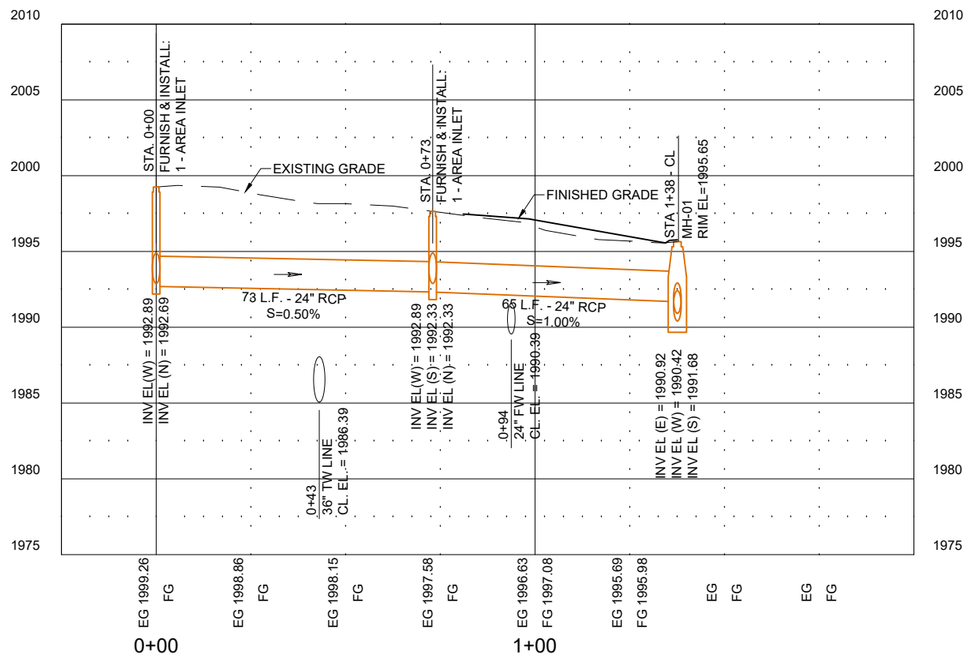
RAPID CITY, SD/POWER
P: (605) 348-7455
F: (605) 348-9445

SIOUX FALLS, SD
ELEC SPECIALTIES
P: (605) 362-3753
F: (605) 362-3759

BISMARCK, ND
P: (701) 751-7322
F: (605) 348-9445

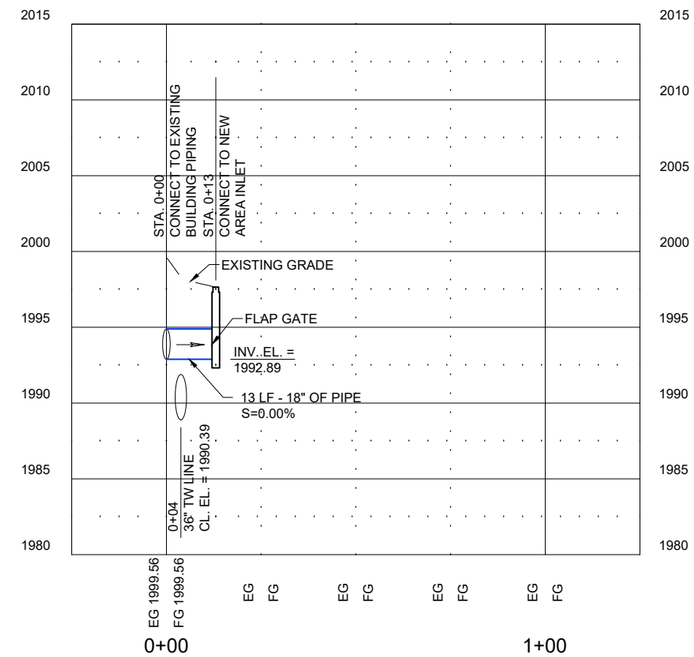
CASPER, WY
P: (307) 234-9484
F: (307) 234-5494

CEDAR RAPIDS, IA
P: (319) 365-0030
F: (319) 365-4122



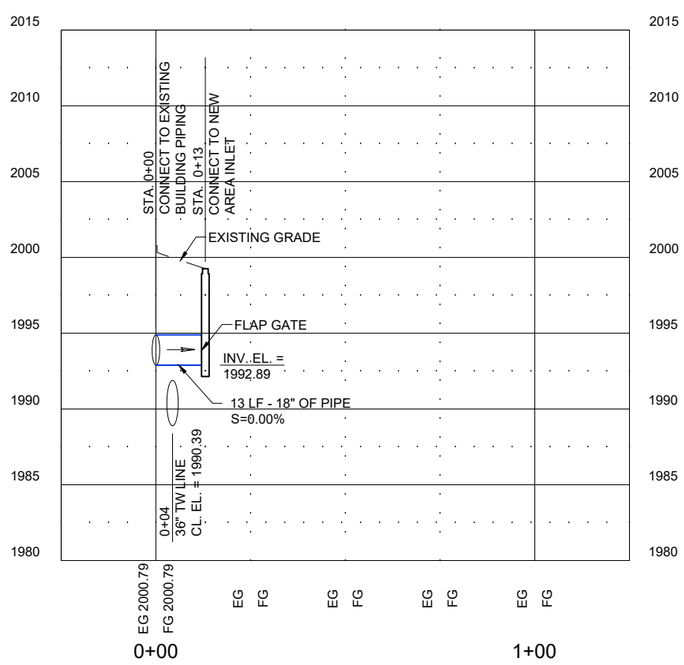
PROFILE - 24" SD LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 4-2.3)



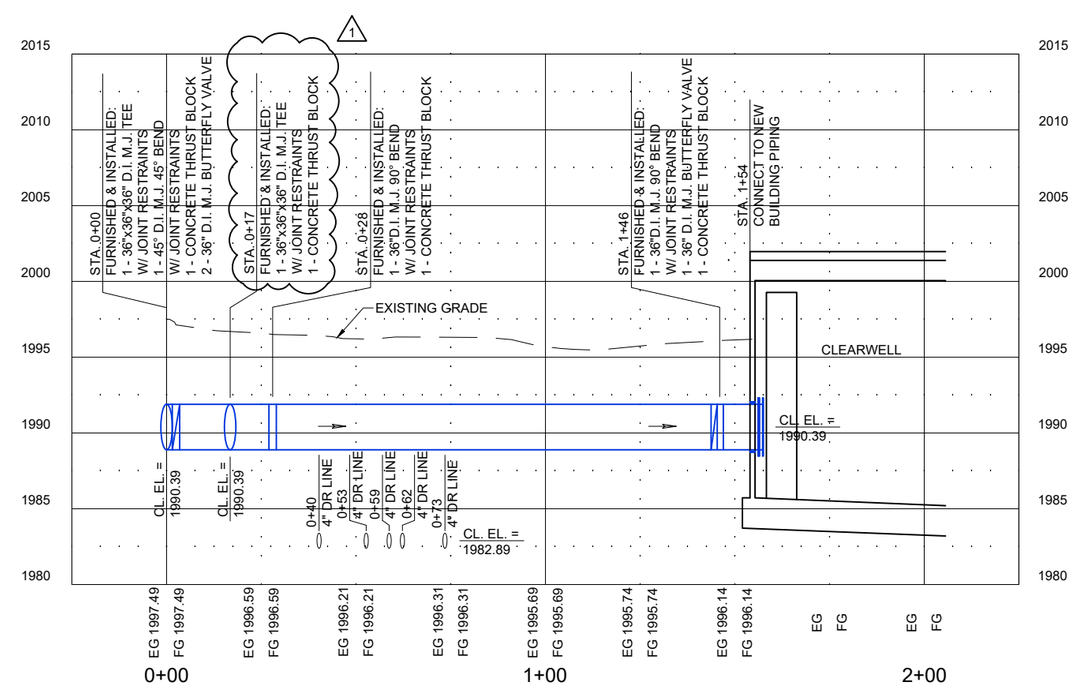
PROFILE - 18" OF NORTH LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 4-2.3)



PROFILE - 18" OF SOUTH LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 4-2.3)



PROFILE - 36" TW LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 4-2.3)

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PROJECT / SHEET TITLE:
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
NEW PIPING PROFILES
NEAR SELBY, SOUTH DAKOTA

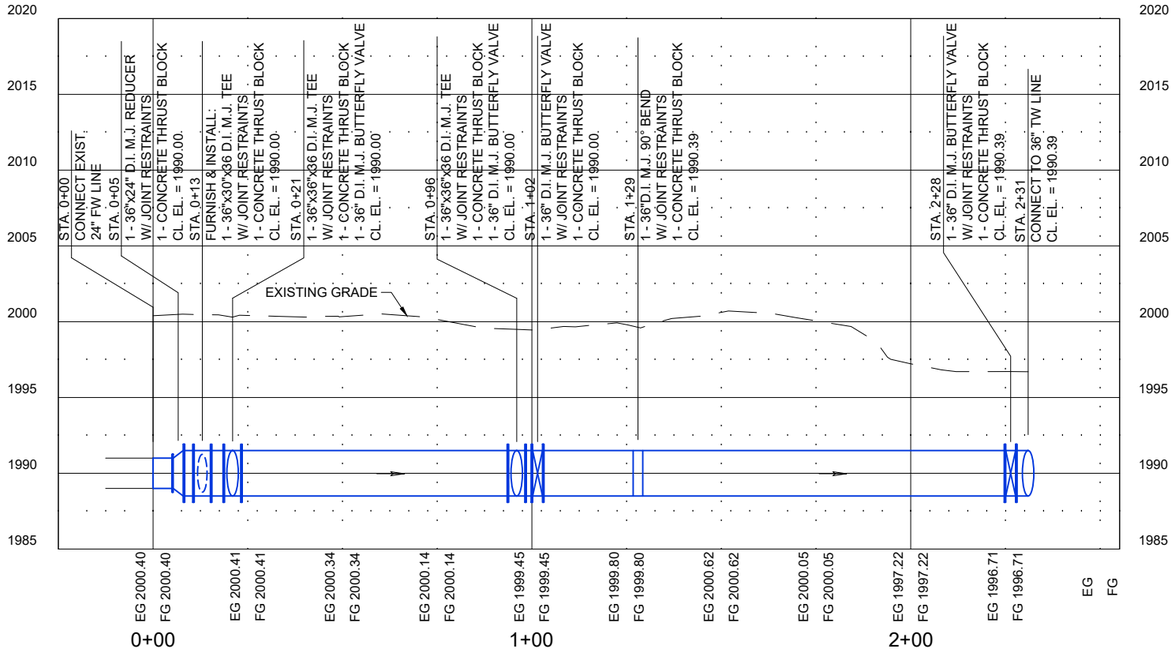
REV.	DATE	DESCRIPTION
1	9-8-22	ADDENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6987
KRISTIN L. BISGARD
SOUTH DAKOTA
9-8-22

JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	T.H.F.
CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

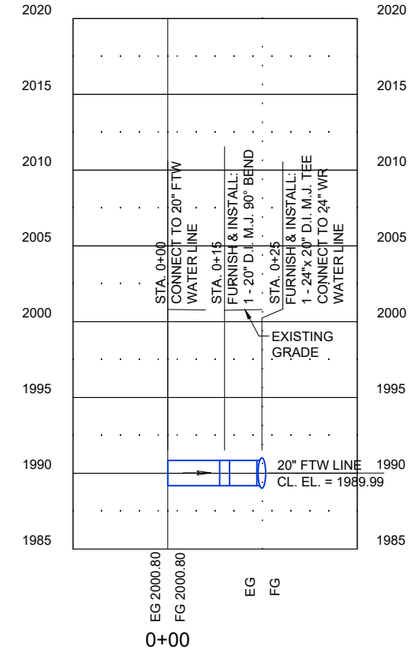
0 1/2" 1"
SCALE REDUCTION BAR

SHEET No.: 2.17



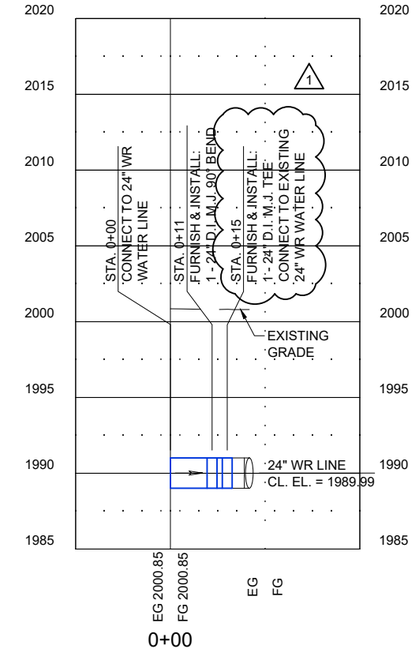
PROFILE - 36" FW LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 2-2.3 & 4-2.3)



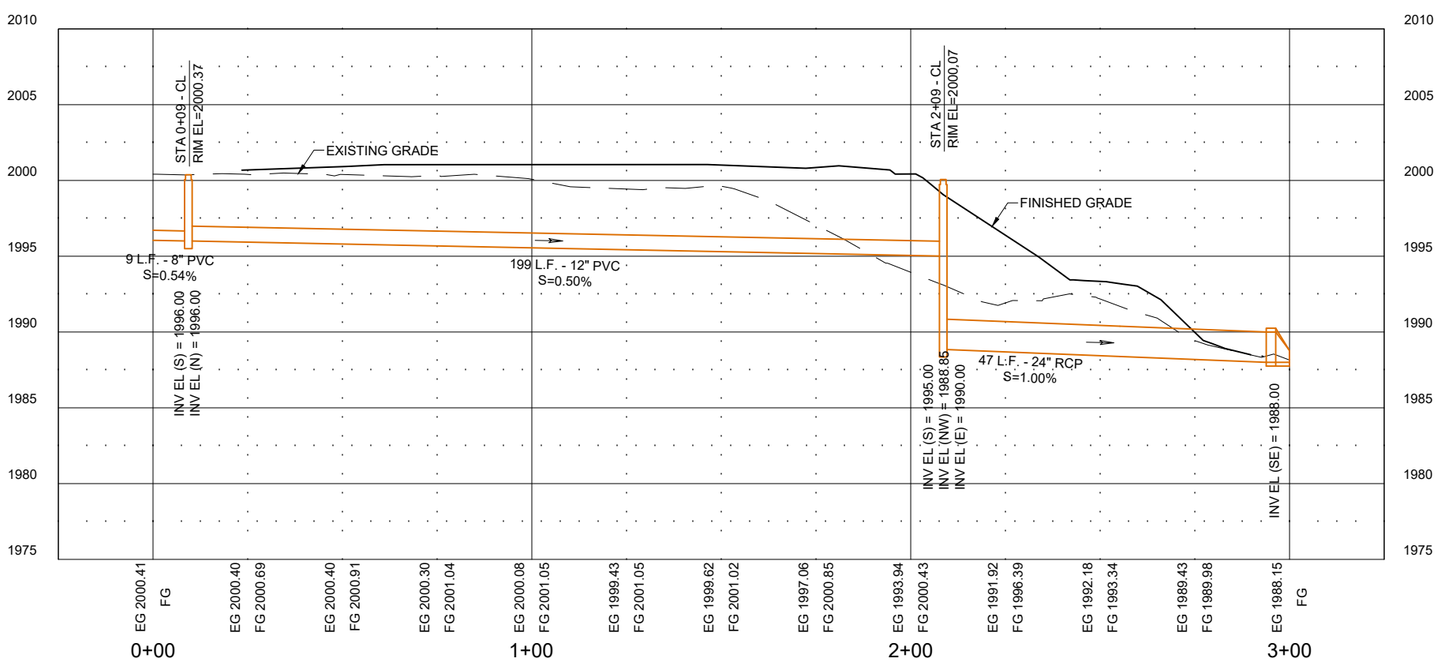
PROFILE - 20" FTW LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 3-2.3)



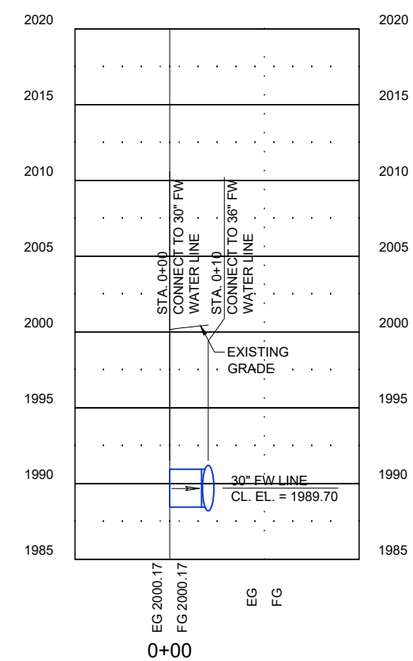
PROFILE - 24" WR LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 3-2.3)



PROFILE - 12" SD LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 2-2.3 & 2-2.4)



PROFILE - 30" FW LINE

SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
(SEE PLAN VIEW SHEET 3-2.3)

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PROJECT / SHEET TITLE:
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
NEW PIPING PROFILES
NEAR SELBY, SOUTH DAKOTA

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0 1/2" 1"
SCALE REDUCTION BAR

SHEET No.:
2.22

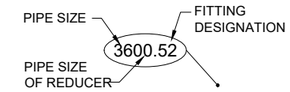
PIPE SCHEDULE

PIPE SIZE	FITTING DESIGNATION	DESCRIPTION	CONNECTION	SPECIAL NOTES
01		1" Ø COPPER OR STAINLESS STEEL		
02		2" Ø DUCTILE IRON		PIPE CLASS 250
03		3" Ø DUCTILE IRON		PIPE CLASS 250
04		4" Ø DUCTILE IRON		PIPE CLASS 250
06		6" Ø DUCTILE IRON		PIPE CLASS 250
08		8" Ø DUCTILE IRON		PIPE CLASS 250
08B		8" Ø STAINLESS STEEL		SCHEDULE 10S
10		10" Ø DUCTILE IRON		PIPE CLASS 250
12		12" Ø DUCTILE IRON		PIPE CLASS 250
14		14" Ø DUCTILE IRON		PIPE CLASS 250
16		16" Ø DUCTILE IRON		PIPE CLASS 250
18		18" Ø DUCTILE IRON		PIPE CLASS 250
20		20" Ø DUCTILE IRON		PIPE CLASS 250
24		24" Ø DUCTILE IRON		PIPE CLASS 250
36		36" Ø DUCTILE IRON		PIPE CLASS 250
42		42" Ø DUCTILE IRON		PIPE CLASS 250
	00	PIPE SPOOL	FL x FL	
	01	PIPE SPOOL	FL x PE	
	02	PIPE SPOOL	FL x RJ	RESTRAINED ALL JOINTS
	03	PIPE SPOOL	FL x MJ	
	04	PIPE SPOOL	MJ x PE	
	05	PIPE SPOOL	MJ x MJ	
	06	PIPE SPOOL	MJ x RJ	
	07	PIPE SPOOL	RJ x RJ	
	08	PIPE SPOOL	RJ x PE	
	09	PIPE SPOOL	PE x PE	
	10	90° BEND	MJ x MJ	1.5" DIA.
	11	90° BEND	FL x FL	SS FITTINGS SHALL BE BUTT WELD
	12	45° BEND	FL x FL	
	13	22.5° BEND	FL x FL	
	14	11.25° BEND	FL x FL	
	15	TEE	FL x FL	SS FITTINGS SHALL BE BUTT WELD
	16	CROSS	FL x FL	
	17	WYE	FL x FL	
	18	LONG RADIUS 90° BEND	FL x FL	
	19	FLANGE AND FLARE	FL	FLARED END
	20	TRUE WYE	FL x FL	
	21	BASE 90° BEND	FL x FL	
	22	BASE TEE	FL x FL	
	23	FLANGE		
	24	BLIND FLANGE		
	25	FILLER FLANGE		
	26	MJ 22.5° BEND	MJ x MJ	
	27	MJ 90° BEND	MJ x MJ	
	28	MJ TEE	MJ x MJ	
	29	MJ CONCENTRIC REDUCER	MJ x MJ	
	30	MJ ADAPTER	MJ x MJ	
	31	MJ CAP		
	32	MJ PLUG		
	33	MJ SLEEVE		
1	34	GROOVED FLANGE ADAPTOR	GR x FL	
	35	CONCENTRIC REDUCER	FL x FL	SS FITTINGS SHALL BE BUTT WELD
	36	ECCENTRIC REDUCER	FL x FL	
	37	REDUCING 90° BEND	FL x FL	
	38	REDUCING TEE	FL x FL	
	39	FLARED END 90° BEND	FL x FL	
	40	COMPACT FLANGE REDUCER		
	41	RJ 45° BEND	RJ x RJ	
	42	RJ 90° BEND	RJ x RJ	

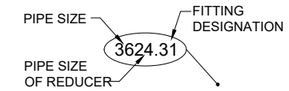
PIPE SCHEDULE CONT'D.

PIPE SIZE	FITTING DESIGNATION	DESCRIPTION	CONNECTION	SPECIAL NOTES
	43	RJ REDUCING TEE	RJ x RJ	
	44	RJ CONCENTRIC REDUCER	RJ x RJ	
	45	DUAL DISK CHECK VALVE	FL x FL	
	46	SILENT CHECK VALVE	FL x FL	
	47	SWING CHECK VALVE	FL x FL	
	48	TILTED DISK CHECK VALVE	FL x FL	
	49	BALL VALVE	FL x FL	
	50	BUTTERFLY VALVE W/ MANUAL OPERATOR	FL x FL	
	51	BUTTERFLY VALVE W/ ELECTRIC ACTUATOR	FL x FL	
	52	BUTTERFLY VALVE W/ MODULATING ELECTRIC ACTUATOR	FL x FL	
	53	BUTTERFLY VALVE W/ ELEC. ACCUATOR & VALVE STEM EXT.	FL x FL	
	54	GATE VALVE	FL x FL	
	55	PLUG VALVE	FL x FL	
	56	SLIDE GATE VALVE	FL x FL	
	57	FLAP GATE	FL	
1	58	M.J. GATE VALVE	MJ x MJ	
	59	R.J. TEE	RJ x RJ	
	60	AIR RELEASE VALVE		
	61	AIR/ VACUUM VALVE		
	62	COMBINATION AIR VALVE		SEE DETAIL 1/14.1
	63	DIAPHRAGM VALVE - PRESSURE RELIEF		
	64	DIAPHRAGM VALVE - SURGE RELIEF		
	65	DIAPHRAGM VALVE - PRESSURE SUSTAINING		
	66	DIAPHRAPM VALVE - FLOW CONTROL	FL x FL	
	67	DIAPHRAPM VALVE - COMBINATION		
	68	SOLENOID VALVE		
	69			
	70	1" WELD-ON BOSS FOR SAMPLE PORT		SEE DETAIL 2/14.1
	71	1" WELD-ON BOSS FOR FUTURE CONNECTION		
	72	1" WELD-ON BOSS FOR CHEMICAL INJECTION		SEE DETAIL 1/13.2
	73	1" WELD-ON BOSS FOR (FUTURE) CHEMICAL INJECTION		SEE DETAIL 2/13.2
	74	1" WELD-ON BOSS FOR SERVICE WATER CONNECTION		SEE MECHANICAL
	75	1" WELD-ON BOSS FOR INSTRUMENTATION CONNECTION		SEE DETAIL 3/19.2
	76	1" WELD-ON BOSS FOR INSTRUMENTATION CONNECTION		SEE DETAIL 2/19.2
	77	1" WELD-ON BOSS FOR INSTRUMENTATION CONNECTION		TURBIDIMETER
	78	2" WELD-ON BOSS FOR FLUSHING ASSEMBLY		SEE DETAIL 3/14.1
	79	2" WELD-ON BOSS FOR CHEMICAL INJECTION		SEE DETAIL 1/13.2
	80	MAGNETIC FLOW METER - INTEGRAL TRANSMITTER	FL x FL	
	81	MAGNETIC FLOW METER - REMOTE TRANSMITTER		
	82	METERING VALVE		
	83	ORIFICE PLATE		
	84	PROPELLER METER		
	85	ROTOMETER		
	86	TURBINE METER		
	87	ULTRASONIC FLOW METER		
	88	VENTURI TUBE		
	89			
	90	DISMANTLING JOINT	FL x FL	
	91	EXPANSION JOINT		
	92	STRAINER		
	93	DRESSER COUPLING		
	94	WALL PENETRATION AND DOUBLE LINK SEAL		
	95	TRANSITION JOINT		
	97	RESTRAINED FLANGE ADAPTOR		
	98	WALL PIPE	FL x MJ	
	99	WALL PIPE	PE x MJ	
1	100	PIPE SPOOL	FL x GR	

PIPING EXAMPLES



PIPING CALLOUT EXAMPLE IS FOR A 36"Ø BUTTERFLY VALVE



PIPING CALLOUT EXAMPLE IS FOR A 36"x24" CONCENTRIC REDUCER

PIPING NOTES:

1. ENCASE PIPING UNDER FLOOR SLAB AND FOUNDATION IN 10" MIN. CONCRETE ENCASEMENT. SEE DETAIL 4/14.1.
2. ALL PIPING & FITTINGS BELOW STRUCTURES SHALL BE RESTRAINED JOINT (RJ). RESTRAINED JOINT FITTINGS TO BE AMERICAN FLEX-RING, US PIPE TR-FLEX, CLOW SUPER-LOCK OR EQUAL.
3. CONTRACTOR TO INSTALL METERS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS WITH REGARD TO UPSTREAM AND DOWNSTREAM LENGTHS AND GROUNDING REQUIREMENTS.
4. INTERIOR PIPING SHALL EXTEND 5 FEET BEYOND THE EDGE OF BUILDING. EXTERIOR PIPING SHALL BEGIN FROM THIS POINT TO MAINLINE. BUILDING SUPPLIER RESPONSIBLE FOR ALL PIPING ONE FOOT (1') ABOVE THE FLOOR.
5. CONTRACTOR/PIPING SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING PIPE PIECES FOR A COMPLETE ASSEMBLY. LAYING LENGTHS FROM APPROVED SHOP DRAWINGS FOR THE PUMPS, ISOLATION VALVES, DISMANTLING JOINTS, AND ALL OTHER PIPING APPURTENANCES SHALL BE USED TO DETERMINE PIPE LENGTHS.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO CONNECT ALL EQUIPMENT REQUIRING POWER.
7. SEE SPECIFICATIONS FOR ALL WALL OR FLOOR PENETRATION REQUIREMENTS AND DETAILS ON STRUCTURAL SHEETS.
8. ALL VALVE OPERATORS SHALL BE PROVIDED WITH HAND WHEEL. VALVE OPERATORS SHALL BE POSITIONED IN SUCH A MANNER THAT IS EASILY ACCESSIBLE AND AT A LOCATION APPROVED BY THE OWNER OR ENGINEER.
9. CONTRACTOR SHALL FURNISH AND INSTALL PIPE SUPPORTS AS INDICATED IN DETAIL 6/14.1.

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www.bannerassociates.com - Toll Free: 1.855.323.6342

PROJECT / SHEET TITLE:
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
PIPING SCHEDULE AND NOTES
NEAR SELBY, SOUTH DAKOTA

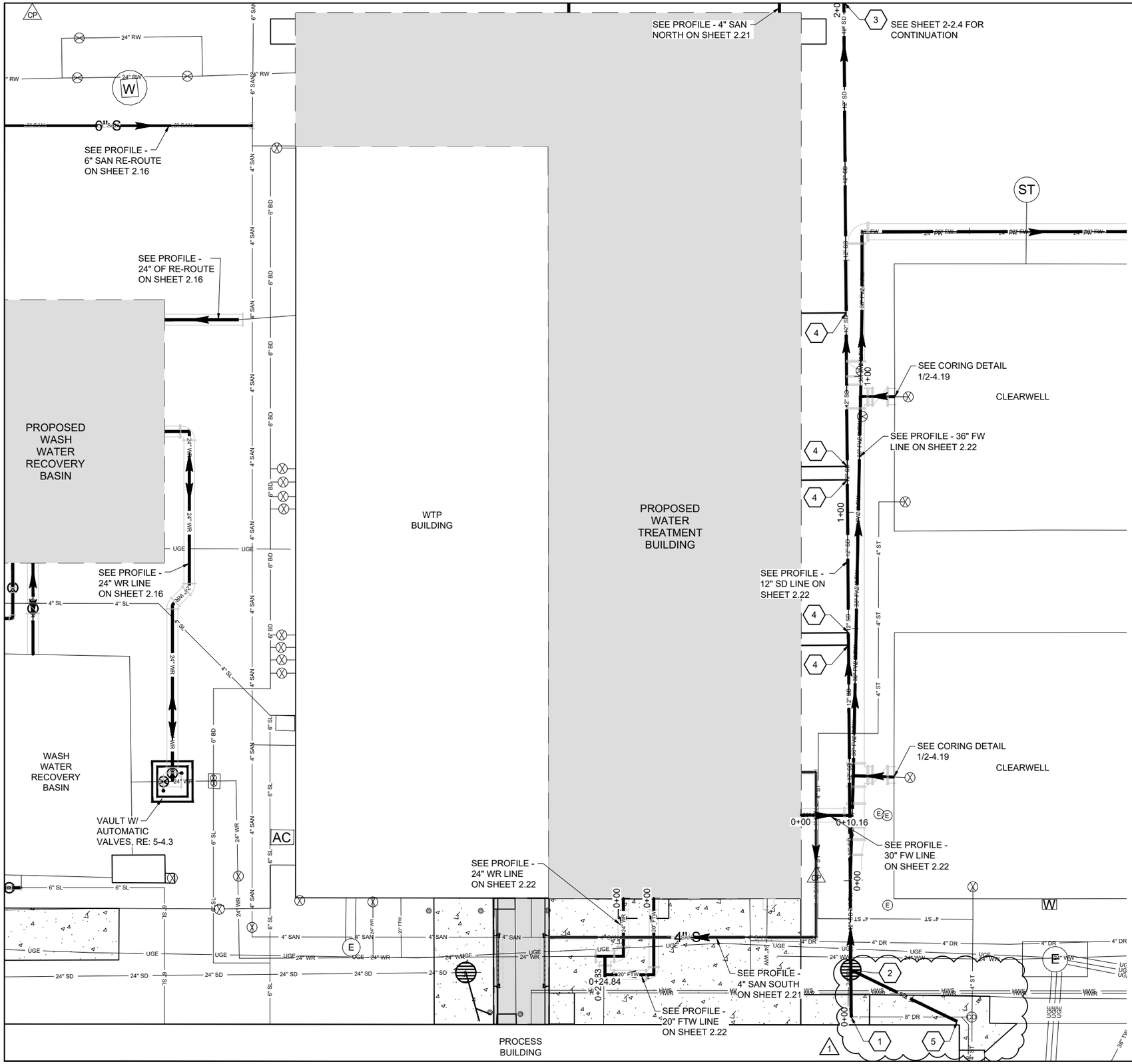
REV.	DATE	DESCRIPTION
1	9-8-22	ADDENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6987
KRISTIN L. BISGARD
SOUTH DAKOTA
9-8-22

JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	D.F.L.
CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No.:
14.2



STORM SEWER KEYNOTES: (X)

1. DISCONNECT STORM SEWER
   INSTALL 8" - PVC 90° BEND

1 TO 2
   9 L.F. - 8" PVC STORM SEWER PIPE
   S. = 0.50%

2. INSTALL 24" DIA. AREA INLET
   RIM EL. = 2000.37
   INV. (N) = 1996.00
   ~~INV. (S) = 1996.00~~
   INV. (SW) = 1996.00 (1)

2 TO 3
   199 L.F. - 12" PVC STORM SEWER PIPE (2)
   S. = 0.50%

~~3. INSTALL 24" DIA. AREA INLET
   RIM EL. = 1998.10
   INV. (N) = 1991.26
   INV. (S) = 1995.05~~ (2)

4. INSTALL 5 EA. - 12"x8" PVC TEE
   INSTALL 45 L.F. - 8" PVC PIPE
   INSTALL 5 EA. - ROOF DOWNSPOUT TRANSITION

2 TO 5
   INSTALL 23 L.F. - 8" PVC STORM SEWER PIPE
   S. = 1.00%
   INSTALL 1 EA. - ROOF DOWNSPOUT TRANSITION (1)

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PROJECT / SHEET TITLE:
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
NEW PIPING ENLARGED PLAN
NEAR SELBY, SOUTH DAKOTA

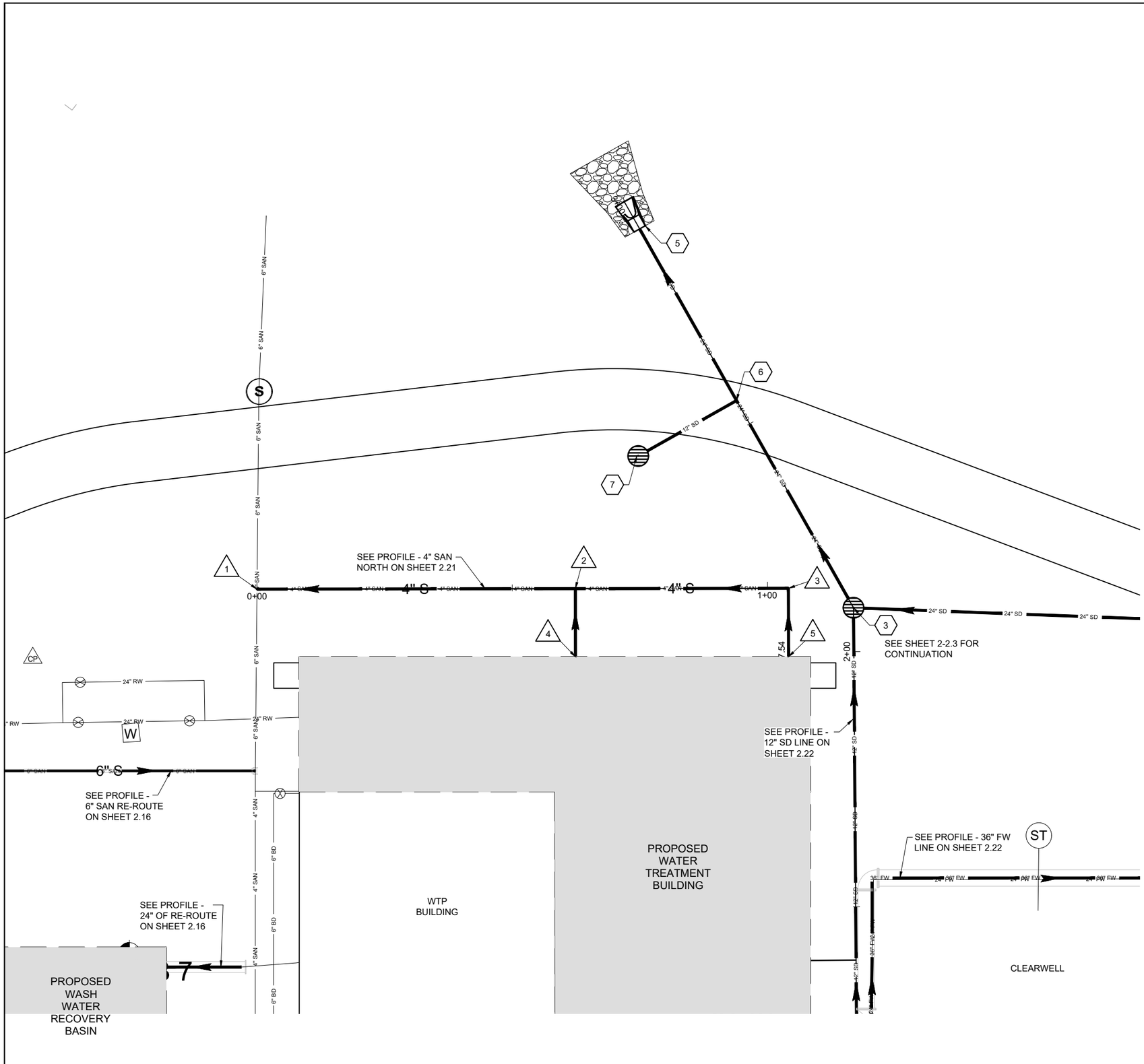
REV.	DATE:	DESCRIPTION
1	8-30-22	ADDENDUM No. 1
2	9-8-22	ADDENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG NO. 14123
JUSTIN R. BUCHER
SOUTH DAKOTA
9-8-2022

JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	S.D.L.
CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

SCALE REDUCTION BAR

SHEET No.:
2-2.3



STORM SEWER KEYNOTES: (X)

3. 24" DIA. AREA INLET
   RIM EL. = 2000.07
   INV. (NW) = 1988.85
   INV. (S) = 1995.00
   INV. (W) = 1990.00

3 TO 5
   83 L.F. - 24" RCP STORM SEWER PIPE
   S. = 1.00%

5. INSTALL 24" RC FLARED END
   INV. (S) = 1988.00

6. INSTALL 1 EA. - 24"x12" RC TEE

6 TO 7
   22 L.F. - 12" RCP STORM SEWER PIPE
   S. = 0.50%

7. 24" DIA. AREA INLET
   RIM EL. = 1992.00
   INV. (NE) = 1988.50

(1)

SANITARY SEWER KEYNOTES: (X)

1. INSTALL 6"x4" PVC WYE
   INSTALL 4" PVC 45° BEND

1 TO 2
   10 L.F. - 6" PVC SANITARY SEWER PIPE
   62 L.F. - 4" PVC SANITARY SEWER PIPE
   S. = 2.00%

2. INSTALL 4"x4" PVC WYE
   INSTALL 4" PVC 45° BEND

2 TO 3
   42 L.F. - 4" PVC SANITARY SEWER PIPE
   S. = 2.00%

3. INSTALL 4"x4" PVC WYE W/ CLEANOUT
   INSTALL 4" PVC 45° BEND

2 TO 4
   14 L.F. - 4" PVC SANITARY SEWER PIPE
   S. = 30.90%

4. CONNECTT TO NEW BUILDING PIPING

3 TO 5
   14 L.F. - 4" PVC SANITARY SEWER PIPE
   S = 30.90%

5. CONNECT TO NEW BUILDING PIPING

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PROJECT / SHEET TITLE:
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
NEW PIPING ENLARGED PLAN
NEAR SELBY, SOUTH DAKOTA

REV.	DATE	DESCRIPTION
1	9-8-22	ADDENDUM No. 2

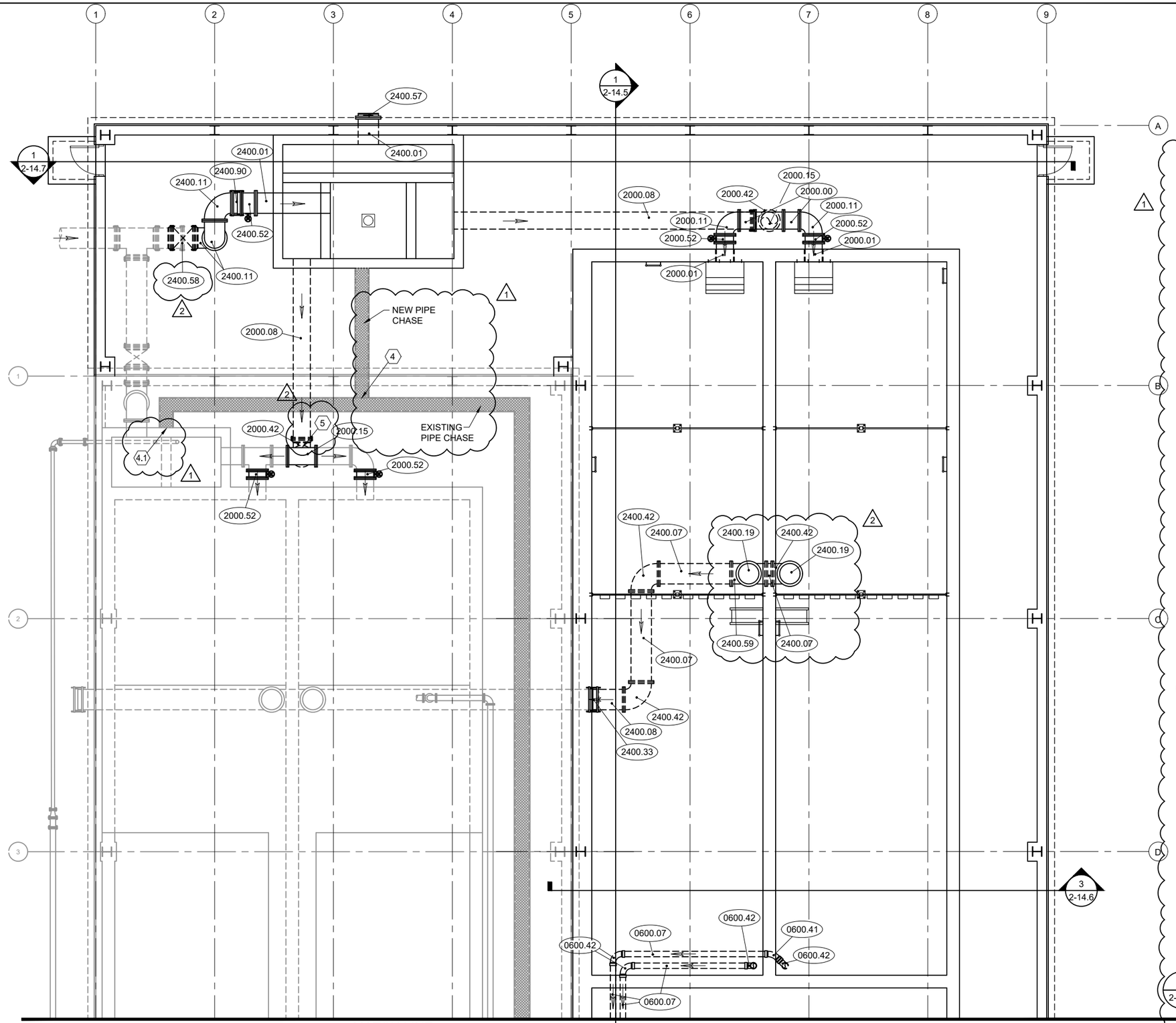
REGISTERED PROFESSIONAL ENGINEER
REG NO. 14123
JUSTIN D. BUCHER
SOUTH DAKOTA
9-8-2022

JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	S.D.L.
CHECKED BY:	J.D.B.
DRAWN BY:	S.A.N.

0 1/2" 1"
SCALE REDUCTION BAR

0 10 20 FT

SHEET No. :
2-2.4



MATCH LINE

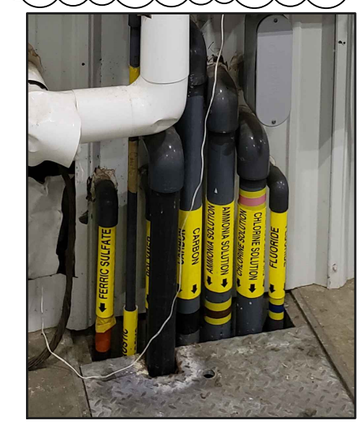
NORTH

LOWER LEVEL PIPING PLAN

SCALE : 3/32" = 1'-0"

NOTES:

1. ALL UNDERSLAB PIPING, NEW OR EXISTING, SHALL BE ENCASED IN CONCRETE TO FIVE FEET OUTSIDE OF BUILDING. SEE DETAIL 4/14.1.
2. SEE SHEET 14.2 FOR PIPING DESIGNATION SCHEDULE.
3. SEE STRUCTURAL DRAWINGS FOR FLOOR DRAIN CONFIGURATION. FLOOR DRAINS HAVE BEEN REMOVED FROM PIPING PLANS FOR CLARIFICATION PURPOSES.
4. GENERAL CONTRACTOR SHALL COORDINATE NEW CHEMICAL PIPING CONNECTIONS TO EXISTING CHEMICAL PIPING (SHOWN IN DETAIL 1/2-14.1). PIPES REQUIRING CONNECTIONS AT THIS LOCATION INCLUDE THE CARBON, POLYMER, CAUSTIC, AND FERRIC SULFATE PIPES. NEW CHEMICAL PIPING SHALL BE ROUTED THROUGH THE NEW PIPE CHASE TO OUTLET INTO THE NEW RAPID MIX BASIN AS SHOWN IN DETAIL 2/2-14.1. EXISTING CHEMICAL PIPING SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
5. NEW PIPING SHALL INCLUDE VERTICAL PIPE SPOOL (2000.02) BETWEEN 90° BEND (2000.42) AND TEE (2000.15). CONTRACTOR SHALL FIELD VERIFY REQUIRED LENGTH OF VERTICAL PIPE SPOOL.



EXISTING CHEMICAL FEED PIPING (SEE LOCATION ON SHEET 2-14.2)

1 / 2-14.1 SCALE : NONE

EXISTING CHEMICAL FEED PIPING OUTLET INTO EXISTING RAPID MIX BASIN (SEE LOCATION AT NOTE 4.1)

2 / 2-14.1 SCALE : NONE

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PROJECT / SHEET TITLE :
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
LOWER LEVEL PIPING PLAN
NEAR SELBY, SOUTH DAKOTA

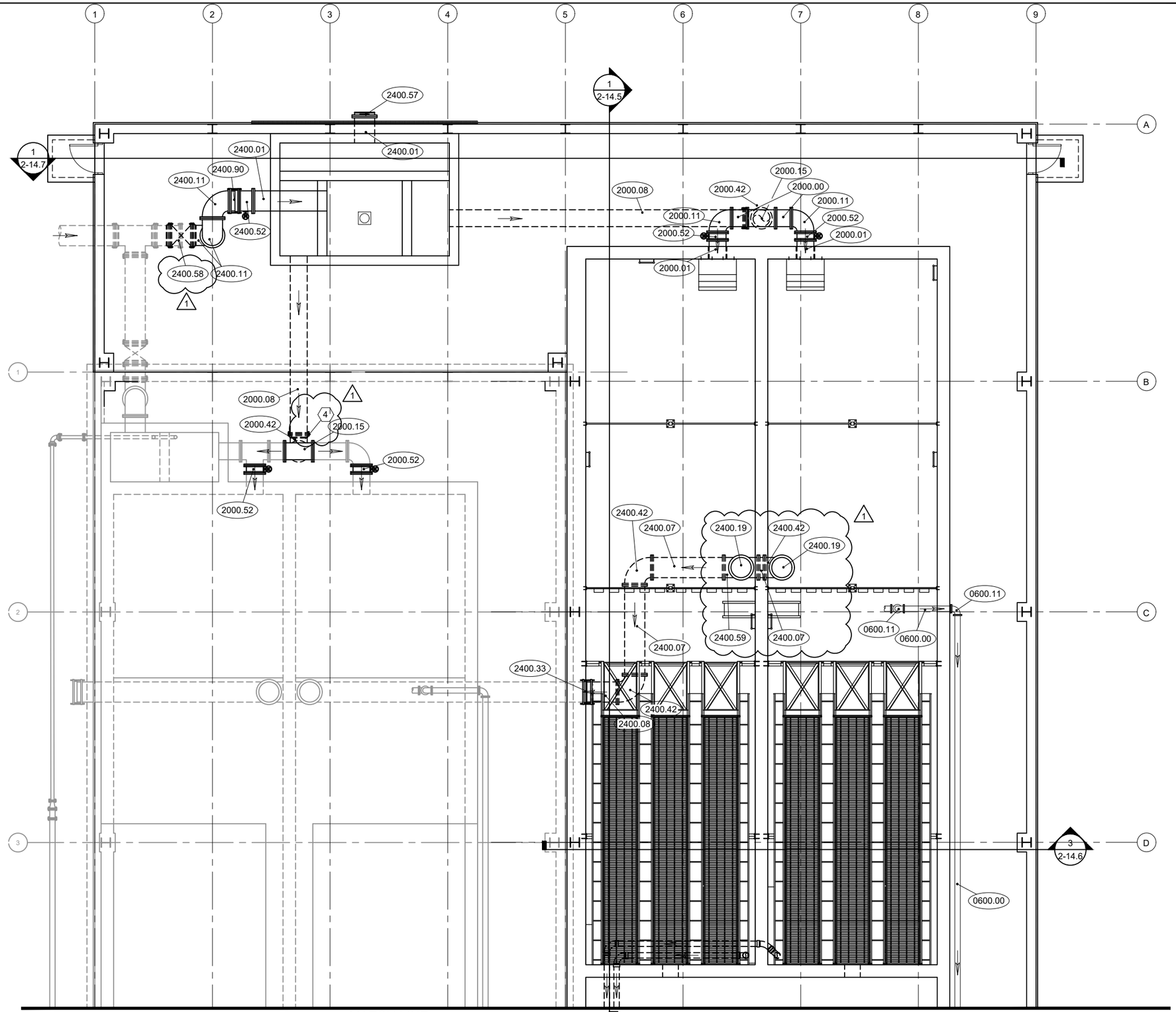
REV.	DATE	DESCRIPTION
1	8-30-22	ADDENDUM No. 1
2	9-9-22	ADDEENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6987
KRISTIN L. BISGARD
SOUTH DAKOTA
9-8-22

JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	D.L.B.
CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No. :
2-14.1



NORTH

UPPER LEVEL PIPING PLAN

SCALE : 3/32" = 1'-0"

NOTES:

1. ALL UNDERSLAB PIPING, NEW OR EXISTING, SHALL BE ENCASED IN CONCRETE TO FIVE FEET OUTSIDE OF BUILDING. SEE DETAIL 4/14.1.
2. SEE SHEET 14.2 FOR PIPING DESIGNATION SCHEDULE.
3. SEE STRUCTURAL DRAWINGS FOR FLOOR DRAIN CONFIGURATION. FLOOR DRAINS HAVE BEEN REMOVED FROM PIPING PLANS FOR CLARIFICATION PURPOSES.
4. NEW PIPING SHALL INCLUDE VERTICAL PIPE SPOOL (2000.02) BETWEEN 90° BEND (2000.42) AND TEE (2000.15). CONTRACTOR SHALL FIELD VERIFY REQUIRED LENGTH OF VERTICAL PIPE SPOOL.

1

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PROJECT / SHEET TITLE :
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
UPPER LEVEL PIPING PLAN
NEAR SELBY, SOUTH DAKOTA

REV.	DATE	DESCRIPTION
1	9-9-22	ADDENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6987
KRISTIN L. BISGARD
SOUTH DAKOTA
9-8-22

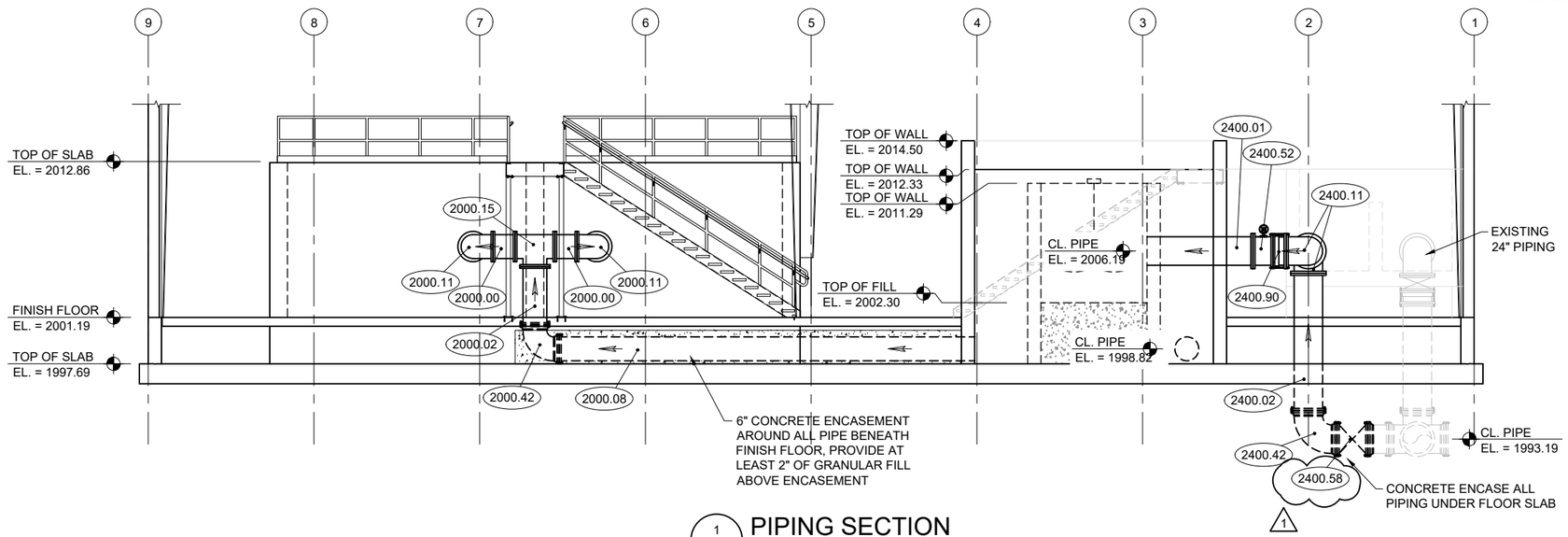
JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	D.L.B.
CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No. :
2-14.3

NOTES:

1. ALL UNDERSLAB PIPING, NEW OR EXISTING, SHALL BE ENCASED IN CONCRETE TO FIVE FEET OUTSIDE OF BUILDING. SEE DETAIL 4/14.1.
2. SEE SHEET 14.2 FOR PIPING DESIGNATION SCHEDULE.



1 / 2-14.7 PIPING SECTION

SCALE: 3/32" = 1' - 0"

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PROJECT / SHEET TITLE :
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
PIPING SECTIONS
NEAR SELBY, SOUTH DAKOTA

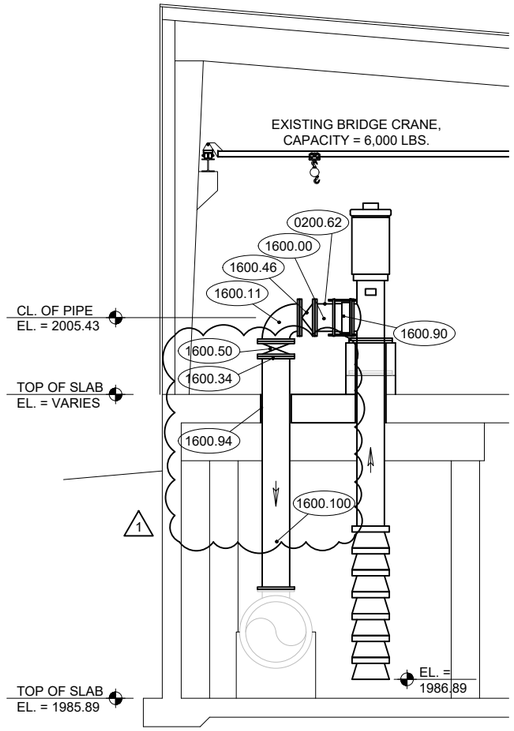
REV.	DATE	DESCRIPTION
1	9-9-22	ADDENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6987
KRISTIN L. BISGARD
SOUTH DAKOTA
9-8-22

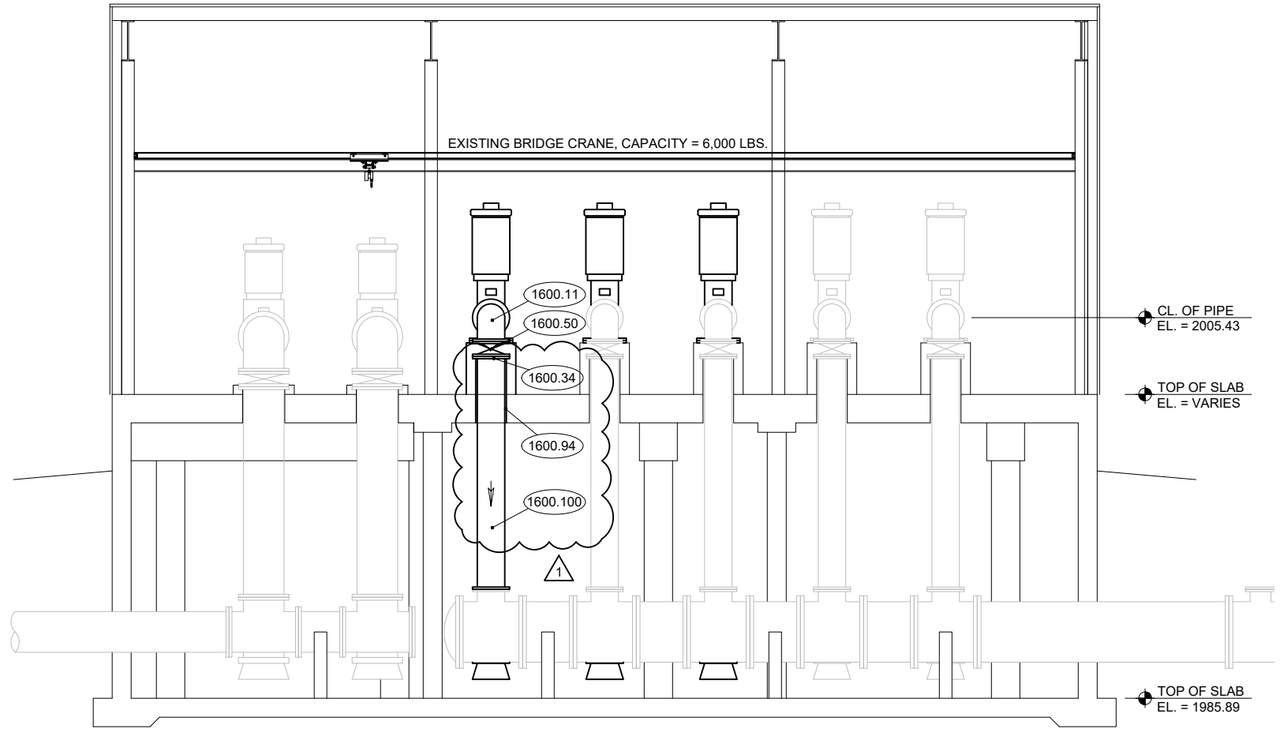
JOB No.:	23165.00.01
DATE:	AUGUST 2022
DESIGNED BY:	D.L.B.
CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No. :
2-14.7



1 NEW PUMP / PIPING SECTION
4-14.4 SCALE : 1/8" = 1' - 0"



2 NEW PUMP / PIPING SECTION
4-14.4 SCALE : 1/8" = 1' - 0"

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PROJECT / SHEET TITLE:
WEB WATER TREATMENT PLANT IMPROVEMENTS - 2022
PIPING SECTIONS
NEAR SELBY, SOUTH DAKOTA

REV.	DATE	DESCRIPTION
1	9-8-22	ADDENDUM No. 2

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 6987
KRISTIN L. BISGARD
SOUTH DAKOTA
9-8-22

JOB No.:	23165.00.01
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CHECKED BY:	K.L.B.
DRAWN BY:	S.A.N.

0 1/2" 1"
SCALE REDUCTION BAR

SHEET No. :
4-14.4