

THE BISHOP AREA WASTEWATER AUTHORITY BOARD OF DIRECTORS

City Council Chambers – 301 West Line Street
Bishop, California 93514

NOTICE TO PUBLIC: In order to minimize the spread of the COVID 19 virus Governor Newsom has issued Executive Orders that temporarily suspend certain requirements of the Brown Act. Please be advised that the Council Chambers remain closed to the public and that some, or all, of the Bishop Area Wastewater Authority Board of Directors may attend this meeting telephonically or via video conference.

You are strongly encouraged to observe the Bishop Area Wastewater Authority meetings live via the City of Bishop website at: http://cms9.revize.com/revize/bishopca/government/city_council/index.php and to submit public comments in writing by 3:00 pm on April 19, 2021 or you may join the video conference via Zoom at:

https://us02web.zoom.us/webinar/register/WN_e_W0L1k5QsOHb6sfx_WDGg

Individuals will be asked to register (by providing their name and email address) in order to access the video conference.

To submit a comment, you are encouraged to participate:

1. In writing. Please email publicworks@cityofbishop.com and write “Public Comment” in the subject line. In the body of the email, include the item number and/or title of the item as well as your comments. If you would like the comment to be read out loud at the meeting (not to exceed three minutes), please write “Read Out Loud at Meeting” at the top of the email. All comments received by 3:00 pm on January 15, 2021 will be emailed to the Board of Directors and included as an attachment under the Agenda’s Item Number as “Public Comment” prior to the meeting. Those comments received after 3:00 pm on April 19, 2021 will be added to the record and shared with the Board of Directors after the meeting. City staff will continuously monitor for public comments received during the meeting as well. You may also hand deliver public comments to the City drop/payment box located at the Church Street entrance to City Hall on or before the deadline noted above.

2. Via Zoom-Webinar. If you choose to join the Bishop Area Wastewater Authority meeting via Zoom-Webinar you will be able to utilize the “hand-waiving” feature to make a public comment and (when appropriate) the Board Chair will call on those who wish to speak (not to exceed three minutes).

In compliance with the Americans with Disabilities Act of 1990, if you need special assistance to participate in this meeting, please contact the City Clerk at 760-873-5863 Extension 24. Notification at least 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. [28 CFR 35.102.35.104 ADA Title II].

The Bishop Area Wastewater Authority thanks you in advance for taking all precautions to prevent spreading the COVID 19 virus.

TUESDAY, April 20, 2021

8:00 A.M.

1. **CALL TO ORDER**
2. **PLEDGE OF ALLEGIANCE**
3. **ROLL CALL**
4. **PUBLIC COMMENT: NOTICE TO THE PUBLIC:** See modified public comment procedure above. Under California law the Board of Directors is prohibited from generally discussing or taking action on items not included in the agenda; however, the Board of Directors may briefly respond to comments or questions received from members of the public. Therefore, the Board of Directors will be provided with all public comments but will not generally discuss the matter or take action on it.
5. **CONSENT CALENDAR – NOTICE TO THE PUBLIC:** All matters under the Consent Calendar are considered routine by the Authority and will be acted on by one motion.
 - A. FOR APPROVAL/FILING
 1. Board of Directors of the Bishop Area Wastewater Authority Meeting Minutes – January 19, 2021
6. **NEW BUSINESS**
 - A. Proposed Budget Discussion
 - B. Update on Progress with LADWP on Property Acquisition
 - C. Update on Irrigation Design
 - D. Update on Progress with the National Range Conservation Service
7. **STAFF AND BOARD REPORTS**
8. **ADJOURNMENT:** The next regularly scheduled meeting of the Bishop Area Wastewater Authority will be July 20, 2021, at 8:00 a.m. in the Bishop City Council Chambers, 301 West Line Street, Bishop.

BISHOP AREA WASTEWATER AUTHORITY
BOARD OF DIRECTORS MINUTES
January 19, 2021

1. CALL TO ORDER

Chairman Pachucki called the Bishop Area Wastewater Authority Board of Directors Meeting to order at 8:09 a.m. in the City Council Chambers, 301 West Line Street, Bishop, California via video conference.

2. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Chairman Pachucki

3. ROLL CALL

Present:

Chairman Pachucki
Vice Chairman Muchovej
Board Member Stone
Board Member Schwartz

Absent:

none

Others Present:

Deston Dishion, Authority Administrator
Ron Phillips, City of Bishop City Administrator
Michele Rhew, Authority Secretary
Ward Simmons, Legal Counsel
Todd Thornburg, Los Angeles Department of Water and Power
Jennifer Krafcheck, Eastern Sierra Community Service District
Steven Nixon, Eastern Sierra Community Service District

4. PUBLIC COMMENT: NOTICE TO THE PUBLIC: See modified public comment procedure above. Under California law the Board of Directors is prohibited from generally discussing or taking action on items not included in the agenda; however, the Board of Directors may briefly respond to comments or questions received from members of the public. Therefore, the Board of Directors will be provided with all public comments but will not generally discuss the matter or take action on it.

No public comments were received.

5. CONSENT CALENDAR – NOTICE TO THE PUBLIC: All matters under the Consent Calendar are considered routine by the Authority and will be acted on by one motion.
 - A. FOR APPROVAL/FILING
 1. Board of Directors of the Bishop Area Wastewater Authority Meeting Minutes – September 22, 2020
 2. Board of Directors of the Bishop Area Wastewater Authority Meeting Minutes – October 20, 2020
 3. Board of Directors of the Bishop Area Wastewater Authority Meeting Minutes – October 29, 2020

Vice Chairman Muchovej thanked the Secretary for the detailed minutes and made a motion to approve the Consent Calendar as presented. Board Member Stone seconded the motion. Motion approved 4-0.

Ayes: Vice Chairman Muchovej, Board Member Stone, Board Member Schwartz, and Chairman Pachucki

Noes: None

6. NEW BUSINESS

A. Update of Progress with Lumo for Title 22 Engineering Report

Chairman Pachucki opened the item and turned it over to Authority Administrator Dishion to review with the Board. Dishion first introduced Todd Thornburg with Los Angeles Department of Water and Power (LADWP) and explained why Thornburg will be attending the BAWA meetings going forward. Dishion updated the Board on the progress with Lumo and the Title 22 Engineering Report.

No public comments were received.

There were no comments or discussion from other board members on the item.

B. Update on Progress with LADWP on Property Acquisition

Authority Administrator Dishion updated the Board on progress with Los Angeles Department of Water and Power (LADWP) regarding property acquisition.

Vice Chairman Muchovej confirmed the time frame of the survey to be 180 days with the appraisal taking place afterwards. Chairman Pachucki voiced his concern over LADWP's timing and getting the process started for the land acquisition. Dishion is confident the process will move along quickly.

No public comments were received.

There were no further comments or discussion on the item.

C. Update on Progress with NRCS on Irrigation Project

Authority Administrator Dishion updated the Board on progress with NRCS regarding the irrigation project.

Board Member Schwartz asked if there was the possibility of solar for the project. Dishion explained that solar could be a cost-efficient way to run the power source and will contact Terra Verde to discuss the idea of solar.

No public comments were received.

There were no further comments or discussion on the item.

D. Bishop Area Wastewater Authority Website

Authority Administrator Dishion shared that he and Board Member Schwartz meet last Friday regarding a website.

Schwartz explained that Robin Picken, City of Bishop City Clerk, was able to create a one-page website through WordPress for free for Eastern Sierra Council of Governments (ESCOG).

Vice Chairman Muchovej stated that the organization needs a noncomplicated-barebone website.

Jennifer Krafcheck, Eastern Sierra Community Service District, shared information on the District's website. Krafcheck will look into the possibility of adding a page on their website for BAWA.

Dishion will meet with Picken to find out more information on a free website.

No public comments were received.

There were no further comments or discussion on the item.

7. STAFF AND BOARD REPORTS

Authority Administrator Dishion asked Legal Counsel Ward when BAWA will need to have their own financial system such as a bank account. Currently, the City of Bishop pays invoices and then bills the District for half the cost. Ward said that he does not believe it is a legal answer and may be an accounting issue and to speak to the City's auditor. The Board agreed that a bank account may be warranted once large capital expenditures are to be funded.

Newly appointed Board Member Schwartz introduced herself and shared that she is looking forward to working with everyone.

There were no additional staff or board reports at this time.

8. ADJOURNMENT: The next regularly scheduled meeting of the Bishop Area Wastewater Authority Board of Directors will be April 20, 2021, at 8:00 a.m. in the Bishop City Council Chambers, 301 West Line Street, Bishop.

Chairman Pachucki adjourned the meeting at 8:37 a.m. to the next regularly scheduled meeting on April 20, 2021.

Chairman Pachucki

Michele Rhew, Secretary

STAFF REPORT

To: Bishop Area Wastewater Authority Board
From: Deston Dishion
Subject: Proposed Budget Discussion
Attachments: Proposed Budget and Last Year's Expenditures
Prepared on: April 15, 2021



Approved By: _____
Deston Dishion, Administrator

Background/History:

Each year by June 30th the BAWA must adopt a budget for the following fiscal year.

Analysis/Discussion:

The proposed 21-22 fiscal year budget as seen includes known costs that should occur this year. As shown in the line items Legal Fees and Professional Services have decreased compared to last year's budget. I feel it would be appropriate to include \$5000.00 for legal costs associated with the CEQA process for the Irrigation Project. Also I have included \$25,000.00 for a consultant to perform the work necessary to complete the process. There is hope that we could complete this process in-house. I have also budgeted funds for the Irrigation Construction Project. At this time I'm confident that we will secure funds through NRCS and Prop 1 Round 2.

Budget Impacts:

There are no budget impacts at this time.

Recommendation: No Action Requested

Discussion item only, therefor no action is required.

BAWA
21/22 Proposed Budget

Discription		20/21	21/22	
001 Legal Fees				
Attend Quarterly Meetings via Zoom (3 X \$825)	\$2,475.00		\$2,500.00	
Miscellaneous Legal Fees	\$20,000.00		\$5,000.00	
			\$ -	
		\$ 22,475.00	\$ -	\$ 7,500.00
002 Insurance				
Board Errors and Omissions	\$11,000.00		\$ -	
Liability	\$10,000.00		\$750.00	
Pollution	\$10,000.00		\$ -	
			\$ -	
			\$ -	
		\$ 31,000.00	\$ -	\$ 750.00
003 Professional Services				
Sierra Analytical			\$ -	
Quarterly Monitor Well Samples (13 wells X \$85 X 4)	\$6,000.00		\$6,000.00	
Monthly Nitrogen (Influent and Discharge Samples)(\$125 X 4 X 12)	\$4,420.00		\$4,500.00	
Grant Writing	\$5,000.00		\$5,000.00	
GIS Support (Inyo County)			\$500.00	
Consultant Fees (Title 22 Engineering Report)	\$25,000.00			
		\$40,420.00	\$ -	\$ 16,000.00
004 Staff Time				
Administrator	\$20,000.00		\$20,000.00	
Finance	\$1,000.00		\$1,000.00	
Board Clerk	\$1,500.00		\$1,500.00	
		\$22,500.00	\$ -	\$ 22,500.00
Permitting Fees				
Discharge Fees	\$ 2,848.00		\$2,848.00	
	\$ -		\$ -	
	\$ -		\$ -	
		\$ 2,848.00		\$ 2,848.00
Future Capital			\$ -	
Irrigation Design	\$ 10,000.00		\$ -	
Irrigation Project (Construction)			\$1,000,000.00	
CEQA Irrigation Project		\$ 10,000.00	\$25,000.00	\$ 1,025,000.00
	\$ -		\$ -	
	\$ -		\$ -	
		\$ -		\$ -
	\$ -		\$ -	
Total		\$ 129,243.00	\$ -	\$ 1,074,598.00

**Bishop Area Wastewater Authority
Expenses**

DATE	VENDOR	AMOUNT	CITY COST	ESCSD COST
9/2/2020	Best Best & Krieger	\$ 2,362.60	\$ 1,181.30	\$ 1,181.30
10/2/2020	Best Best & Krieger	\$ 3,746.20	\$ 1,873.10	\$ 1,873.10
11/8/2020	Best Best & Krieger	\$ 5,515.70	\$ 2,757.85	\$ 2,757.85
12/4/2020	Best Best & Krieger	\$ 1,248.50	\$ 624.25	\$ 624.25
12/17/2020	Utility Resource Insurance Service	\$ 750.00	\$ 375.00	\$ 375.00
1/6/2021	Best Best & Krieger	\$ 414.10	\$ 207.05	\$ 207.05
1/7/2021	Lumos and Associates, Inc.	\$ 3,084.00	\$ 1,542.00	\$ 1,542.00
2/3/2021	Best Best & Krieger	\$ 859.60	\$ 429.80	\$ 429.80
2/4/2021	Lumos and Associates, Inc.	\$ 3,084.00	\$ 1,542.00	\$ 1,542.00
2/17/2021	Inyo County IT	\$ 127.46	\$ 63.73	\$ 63.73
2/28/2021	Inyo County IT	\$ 95.59	\$ 47.80	\$ 47.79
3/5/2021	Best Best & Krieger	\$ 2,846.60	\$ 1,423.30	\$ 1,423.30
3/5/2021	Lumos and Associates, Inc.	\$ 13,364.00	\$ 6,682.00	\$ 6,682.00
4/1/2021	Lumos and Associates, Inc.	\$ 1,028.00	\$ 514.00	\$ 514.00
4/2/2021	Best Best & Krieger	\$ 358.30	\$ 179.15	\$ 179.15
		\$ 38,884.65	\$ 19,442.33	\$ 19,442.32
	Best Best & Krieger	\$ 17,351.60		
	Lumos and Associates, Inc.	\$ 20,560.00	End of Contract	
	Insurance	\$ 750.00		
	Other	\$ 223.05		

STAFF REPORT

To: Bishop Area Wastewater Authority Board
From: Deston Dishion
Subject: Update on Progress with LADWP on Property Acquisition
Prepared on: April 16, 2021



Approved By: _____
Deston Dishion, Administrator

Background/History:

In 2019 the City of Bishop and the Eastern Sierra Community Services District began working LADWP to acquire additional land for discharge of treated wastewater. Since the process began the Bishop Area Wastewater Authority (BAWA) was formed and has continued the process to acquire additional discharge land.

Analysis/Discussion:

Since the BAWA board last met in January of last year I have been corresponding with LADWP staff on a regular basis. At this point in time nothing substantive has been completed to report on. LADWP will complete a full survey of the subject land in the next 6 months to a year. After the survey work is completed the BAWA will be expected to hire a consultant to complete a formal appraisal of the land. LADWP has met with the lessees that will be effected and apprised them of the situation.

Budget Impacts:

There are no budget impacts at this time.

Recommendation: No Action Requested

Informational item only, therefor no action is required.

STAFF REPORT

To: Bishop Area Wastewater Authority Board
From: Deston Dishion
Subject: Update on Irrigation Design
Attachments: Irrigation Plans and Cost Estimate
Prepared on: April 15, 2021



Approved By: _____
Deston Dishion, Administrator

Background/History:

As part of the BAWA's farm management plan a large scale pressurized sprinkler system was one aspect of nutrient management. It was decided that a solid set, big gun sprinkler arrangement would best fit the plan.

Analysis/Discussion:

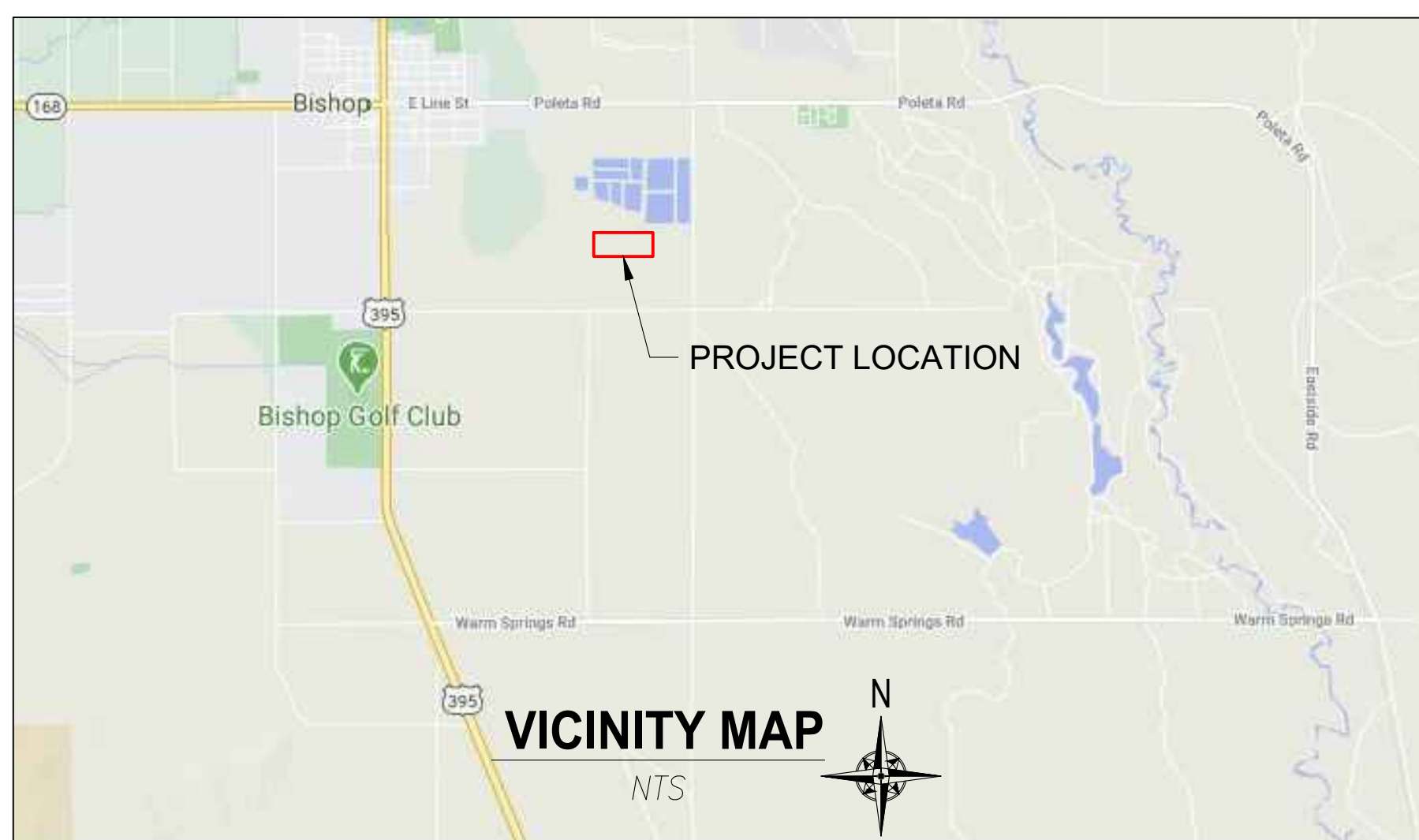
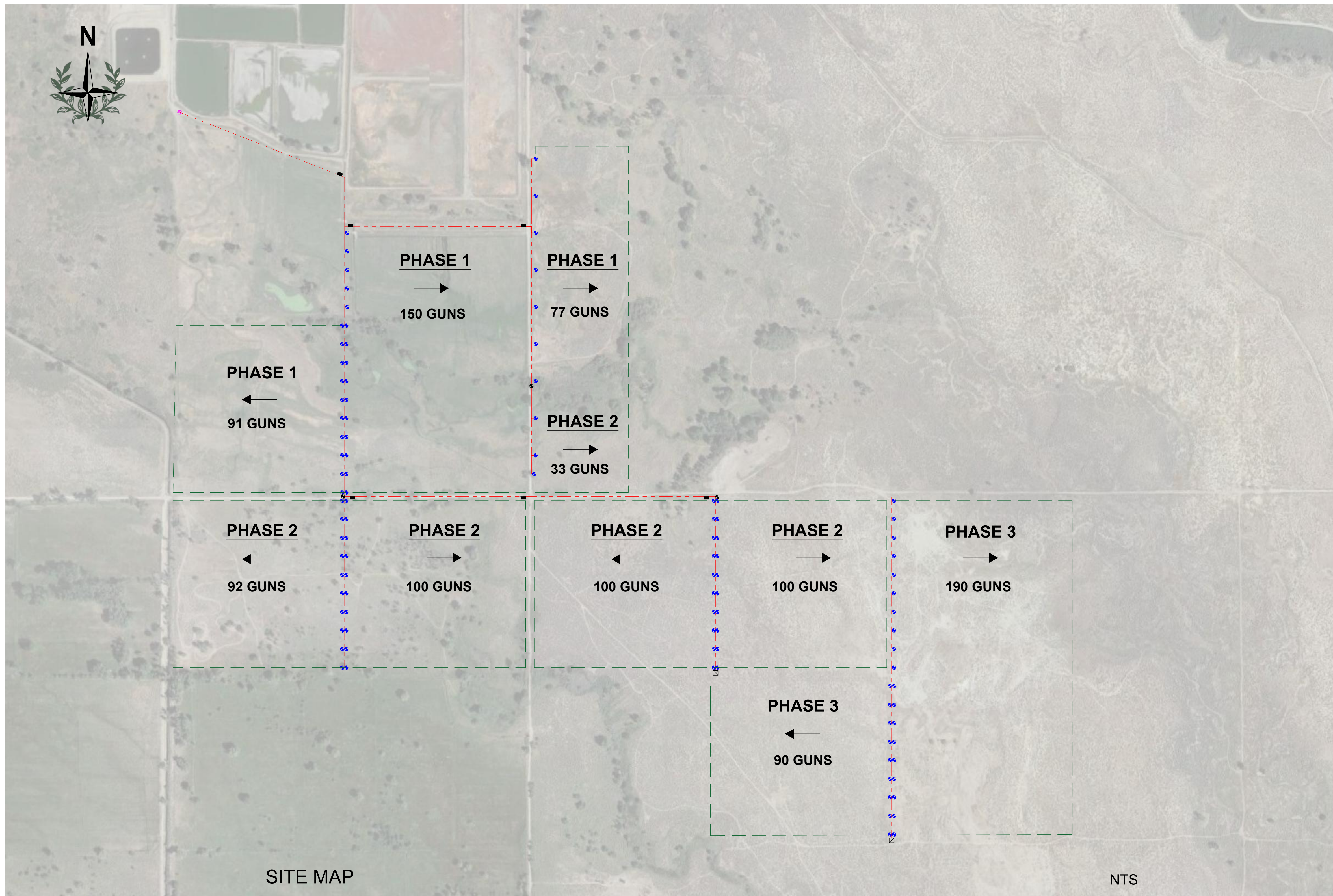
In November of 2020 I was introduced to Curtis Lutje of Laurel Ag. Out of Bakersfield California. Laurel Ag is a company that provides materials as well as design of large scale agricultural irrigation systems. I met with Curtis on site and gave him a tour of our pasture and ponds. From there Curtis designed a complete system from pumps to sprinklers. The plans show a complete system covering the entire 460 acres that may be potentially built. The plans have been developed to build the system in phases as well. The plans were also submitted to The California State Division of Drinking Water for consideration in approving our Title 22 Engineering Report. I have attached the plans and cost estimate provided by Laurel Ag.

Budget Impacts:

There are no budget impacts at this time.

Recommendation: No Action Requested

Informational item only, therefor no action is required.



PROJECT STATISTICS:

- CROP: PASTURE
- ACRES: 302 (PH: 1) 132 (PH:2)
- SPRINKLER: NELSON BIG GUN 100
- NZL. FLOW RATE: 120 GPM @ 70 PSI
- WET RADIUS: 138'
- LATERAL & SPRINKLER SPACING: 138' MAX. x 138' MAX.
- EACH LATERAL LINE CONSISTS OF 10 SPRINKLERS (1200 GPM)
- MAXIMUM LATERAL & SPRINKLER SPACING: 50% OF WETTED DIAMETER
- SPRINKLER NO. AVG. 48 PER BLOCK (20 ACRES)
- TOTAL FLOW AVAIL. AT SOURCE: 1042 GPM (CURRENT FLOW) 1458 GPM (FUTURE FLOW)
- VALVES: NELSON 6" & 8" 800 SERIES WITH TWIG/SOLENOID CONTROL
- PSI LOSS: .40 PSI @ 1200 GPM

PUMP DETAILS	
FLOW (GPM)	1460
TDH (FT) INCLUDES LIFT	211
HORSEPOWER (HP)	100
TOTAL PUMP LENGTH (FT)	TBD

SHEET INDEX	
G-001	PROJECT COVER SHEET
CI-101	IRRIGATION PLAN
CI-102	LATERAL LINE LOW POINTS
CI-501	IRRIGATION DETAILS
MF-501	MECHANICAL DETAILS

PREPARED BY:

LAUREL
AG & WATER

**CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276**
POLETA RD & AIRPORT RD
BISHOP, CA

PREPARED FOR:

REVISIONS

#

DATE

DESIGN:

DRAWING:

APPROVAL:

N. MURRAY

N. MURRAY

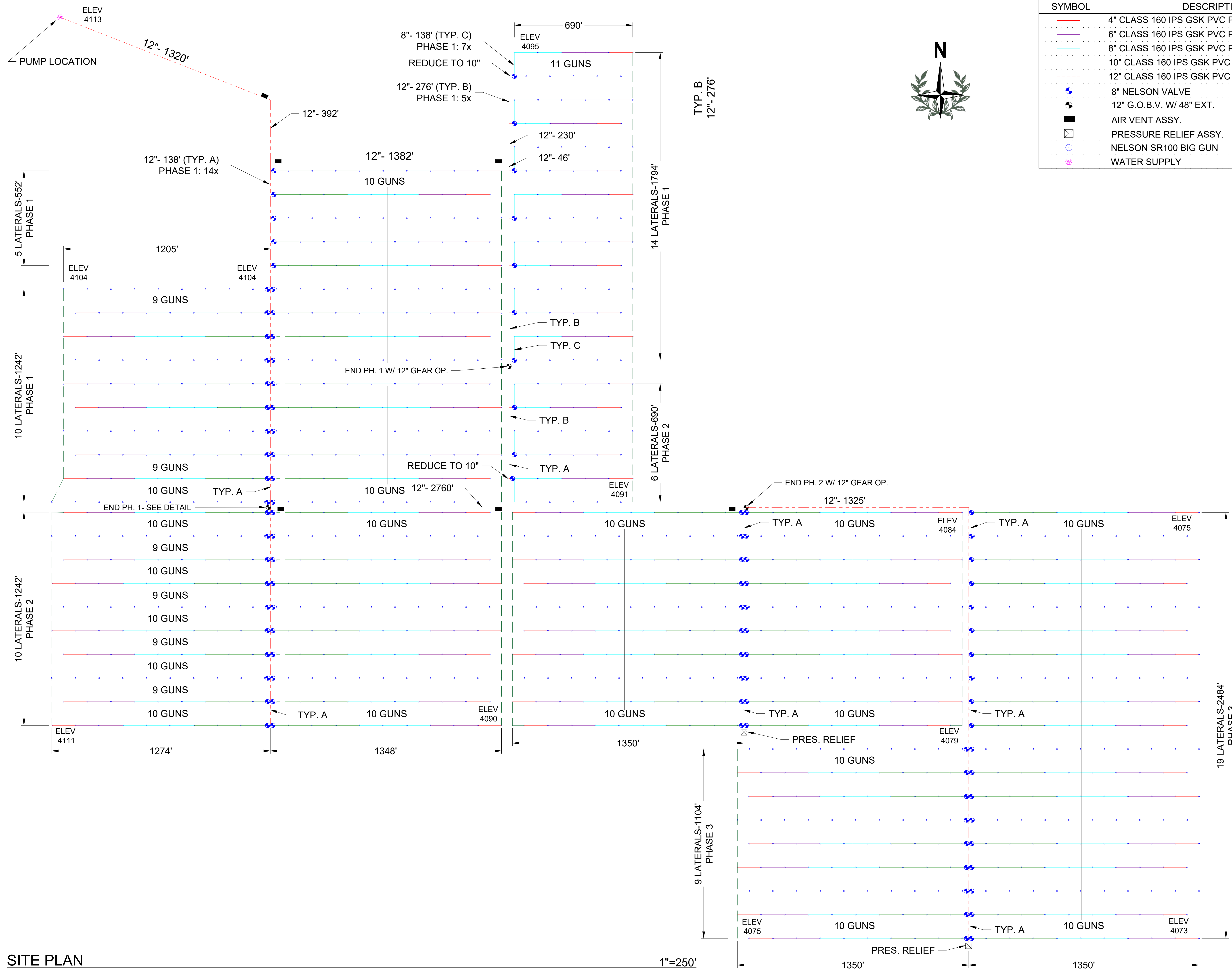
LAUREL DESIGN

**COVER SHEET &
PROJECT
STATISTICS**

DATE: 02/05/2021

SHEET:

G-001



SYMBOL	DESCRIPTION
	4" CLASS 160 IPS GSK PVC PIPE
	6" CLASS 160 IPS GSK PVC PIPE
	8" CLASS 160 IPS GSK PVC PIPE
	10" CLASS 160 IPS GSK PVC PIPE
	12" CLASS 160 IPS GSK PVC PIPE
	8" NELSON VALVE
	12" G.O.B.V. W/ 48" EXT.
	AIR VENT ASSY.
	PRESSURE RELIEF ASSY.
	NELSON SR100 BIG GUN
	WATER SUPPLY

PREPARED BY:

LAUREL
A G & W A T E R

**CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276**

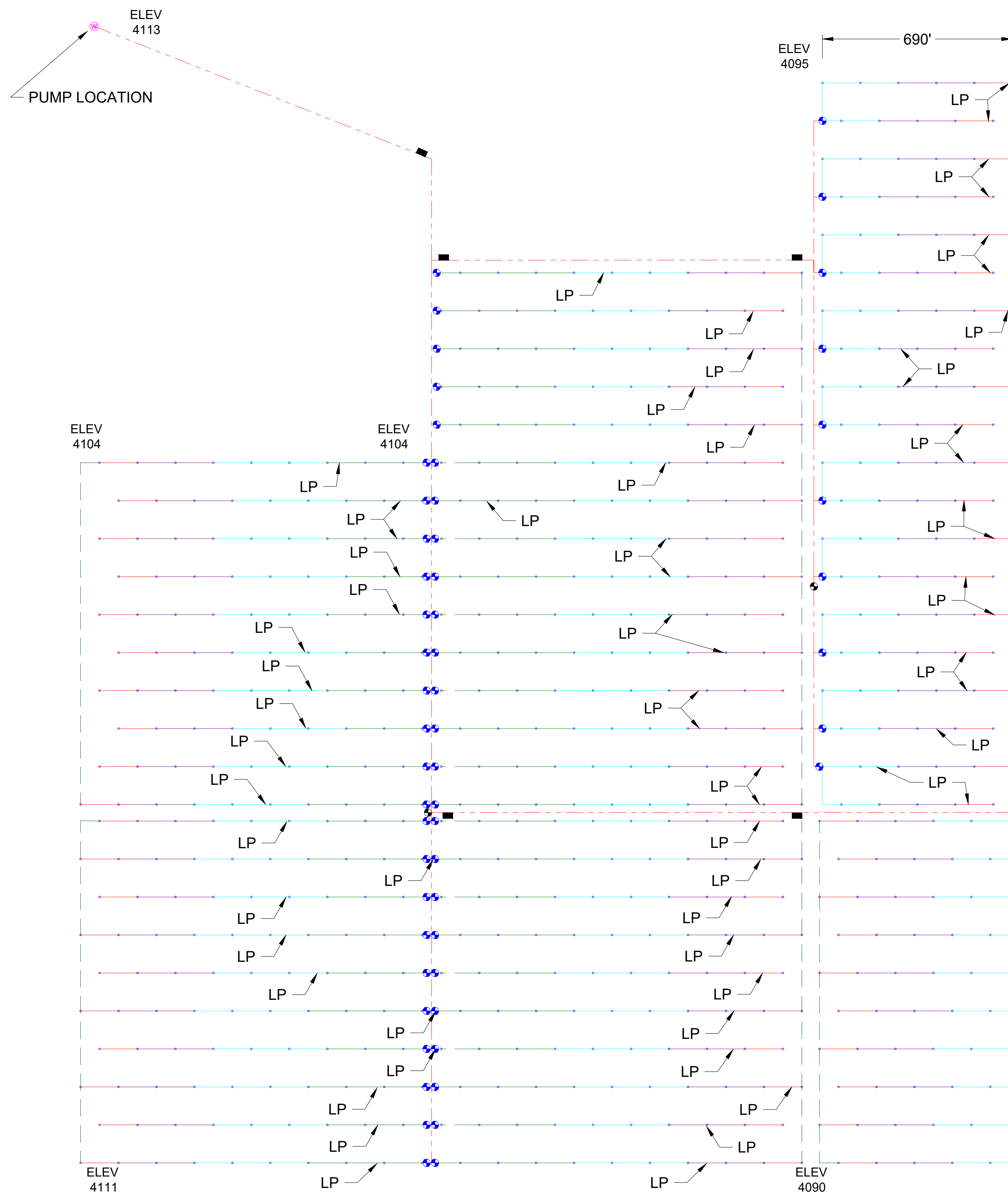
POLETA RD & AIRPORT RD
BISHOP, CA

#	REVISIONS	DATE	PREPARED FOR:

PROJECT IRRIGATION PLAN	DATE: 02/05/2021	CI-101
SHEET:	DESIGN: N. MURRAY DRAWING: N. MURRAY APPROVAL: LAUREL DESIGN	

SITE PLAN

1"=250'



SYMBOL	DESCRIPTION
	4" CLASS 160 IPS GSK PVC PIPE
	6" CLASS 160 IPS GSK PVC PIPE
	8" CLASS 160 IPS GSK PVC PIPE
	10" CLASS 160 IPS GSK PVC PIPE
	12" CLASS 160 IPS GSK PVC PIPE
	8" NELSON VALVE
	AIR VENT ASSY.
	PRESSURE RELIEF ASSY.
	NELSON SR100 BIG GUN
	WATER SUPPLY

NOTE:
 "LP" = LOW POINT BASED ON
 GOOGLE EARTH. VERIFY IN FIELD.

SITE PLAN

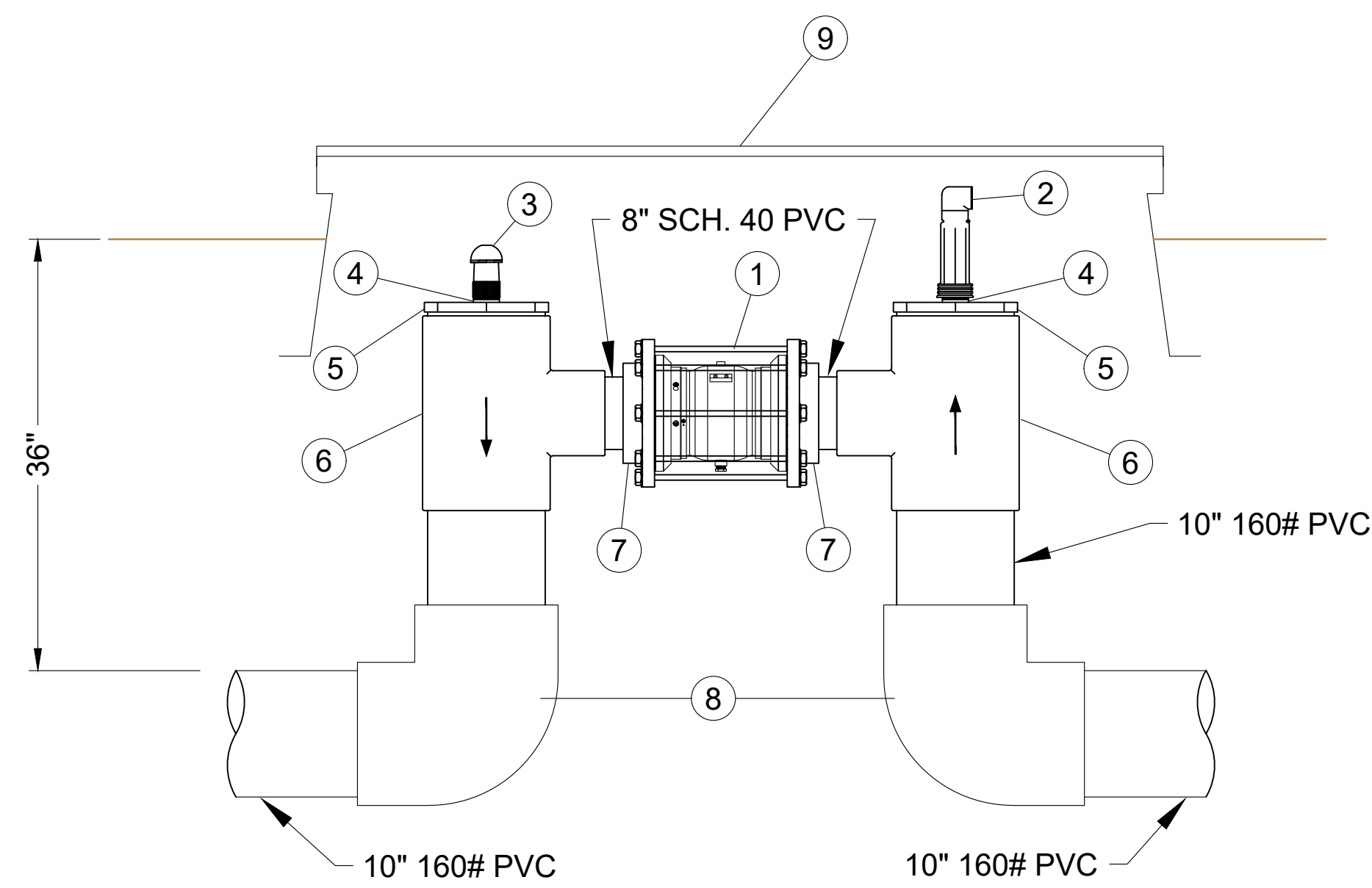
1"=250'

PREPARED BY:
LAUREL
 A G & W A T E R

PREPARED FOR:
CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276
 POLETA RD & AIRPORT RD
 BISHOP, CA

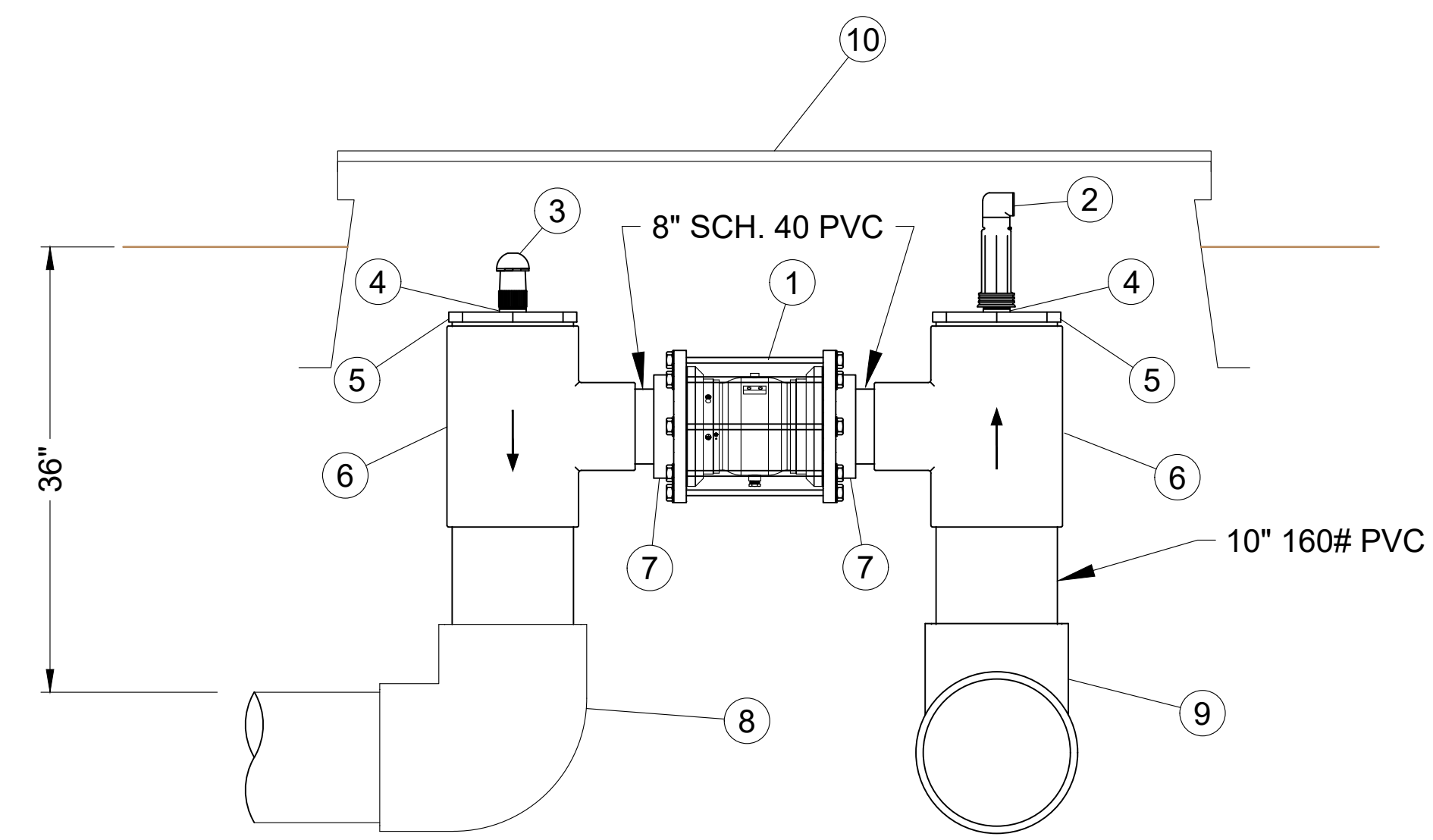
#	REVISIONS	DATE	PREPARED FOR:

LATERAL LOW POINTS	DATE: 02/05/2021	CI-102
DESIGN: N. MURRAY	DRAWING: N. MURRAY	
APPROVAL: LAUREL DESIGN		



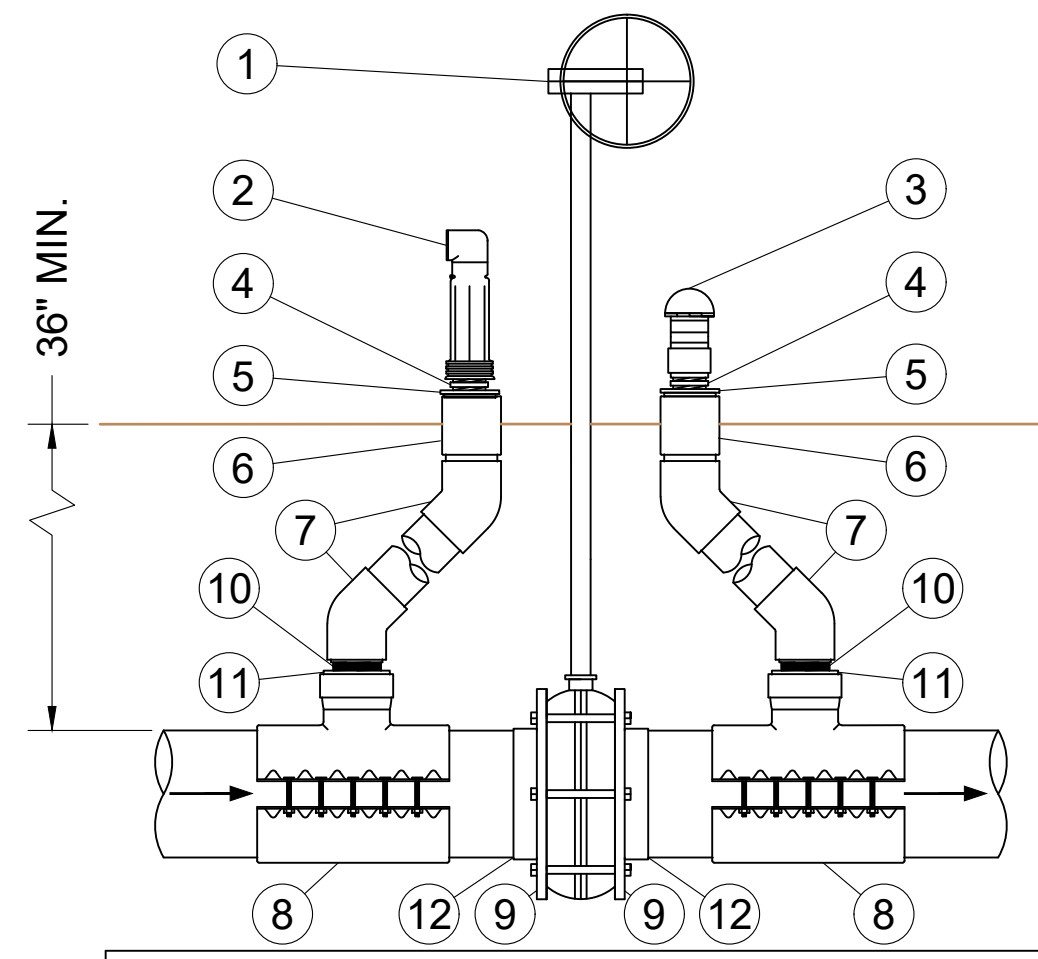
**8" NELSON 800 VALVE W/
TWIG/SOLEINOID - TYP. 25x**

LABEL	ITEM	#
1	8" NELSON 800 SERIES	1
2	2" PRO-AG VENT	1
3	2" GUARDIAN VENT	1
4	2" T.O.E. - SCH.80 PVC	2
5	10"x6" / 6"x2" RED. BUSHING	2
6	10"x8" TEE - SCH.40 PVC	2
7	8" PVC V/S FLANGE	2
8	10" 160# PVC 90°	2
9	72" CONC. WATER BOX	1



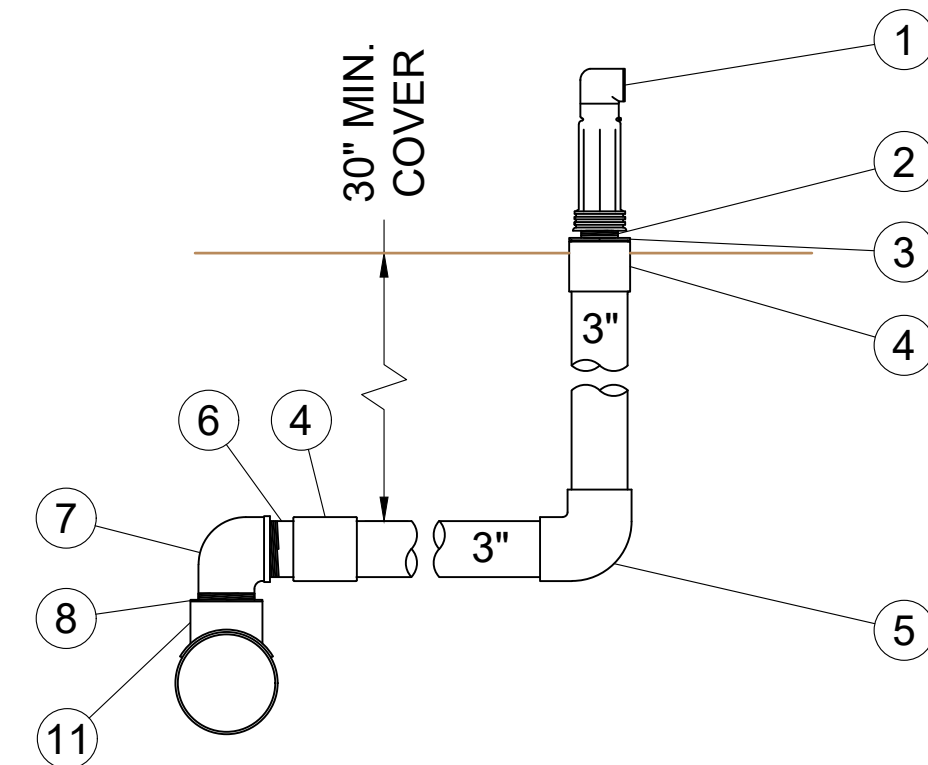
**8" NELSON 800 VALVE W/
TWIG/SOLEINOID - TYP. 7x**

LABEL	ITEM	#
1	8" NELSON 800 SERIES	1
2	2" PRO-AG VENT	1
3	2" GUARDIAN VENT	1
4	2" T.O.E. - SCH.80 PVC	2
5	10"x6" / 6"x2" RED. BUSHING	2
6	10"x8" TEE - SCH.40 PVC	2
7	8" PVC V/S FLANGE	2
8	10" SCH. 40 PVC 90°	1
9	12" x 10" 160# TEE	1
10	72" CONC. WATER BOX	1



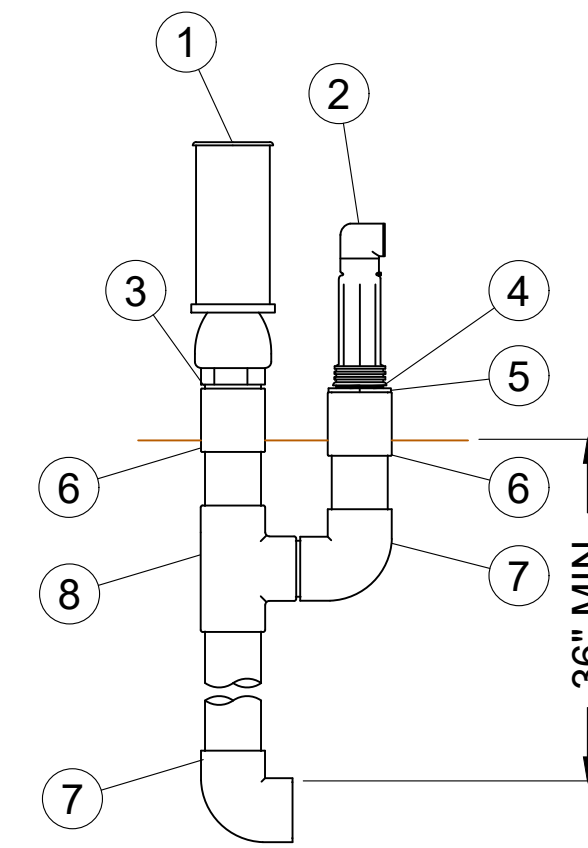
**GEAR OP. BUTTERFLY VALVE
ASSY.**

LABEL	ITEM	M
1	GEAR OP. BUTTERFLY VALVE W/ 48" EXTENSION - SIZE TO PIPE	1
2	2" CONTINUOUS ACTING VENT	1
3	2" AIR VENT	1
4	2" T.B.E. - SCH.80 PVC	2
5	3"x2" RED. BUSHING - SCH.40 PVC	2
6	3" COUPLER - SCH.40 PVC	2
7	3"x45° ELL - SCH.40 PVC	4
8	MAIN x 4" EPOXY SADDLE	2
9	VAN STONE FLANGE - DIAMETER PIPE	2
10	3" T.O.E. - SCH.80 PVC	2
11	4"x3" RED. BUSHING - GALV	2
12	PIP x IPS BUSHING	2



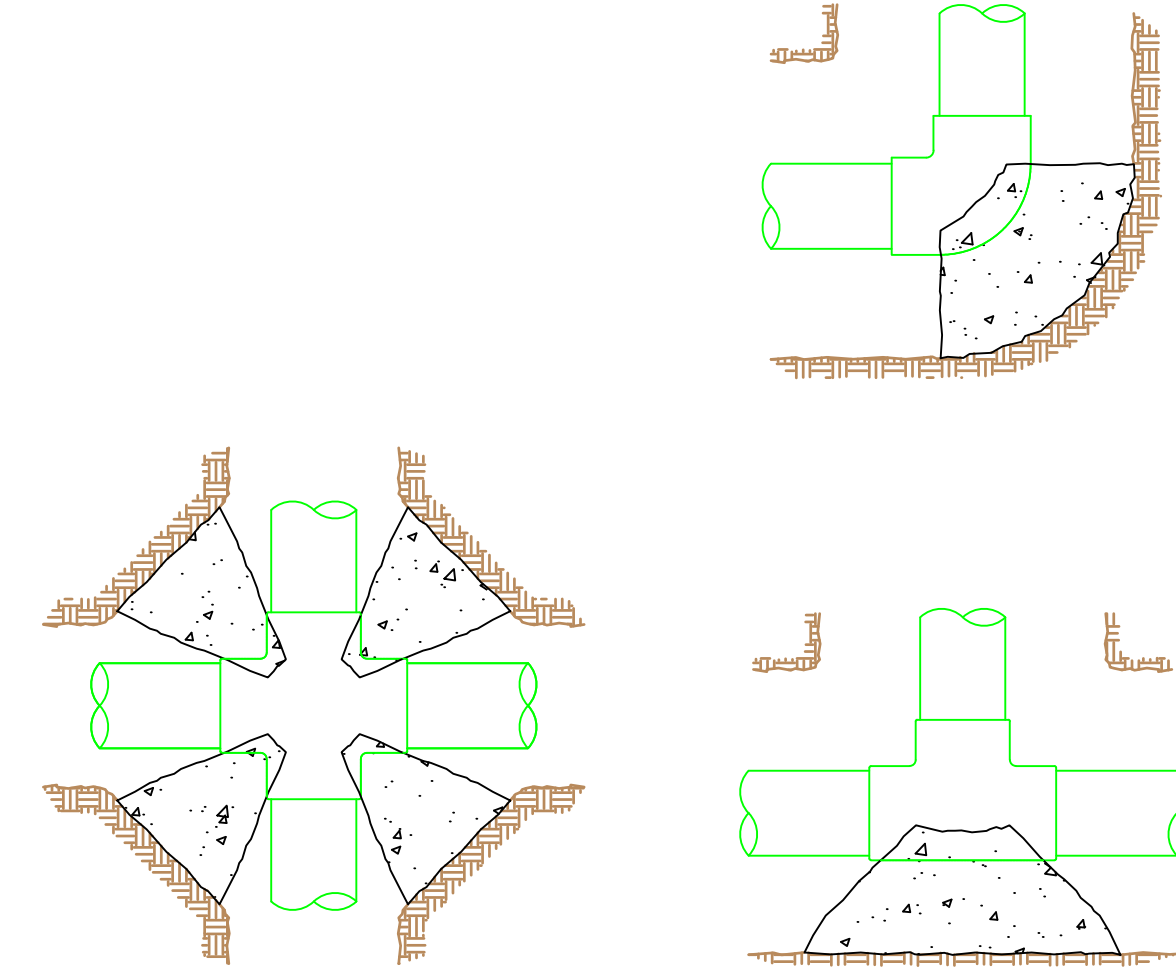
MAINLINE AIR VENT ASSY. - 3x

LABEL	ITEM	# PER ASSEM.
1	2" AIR VENT - NETAFIM PRO	1
2	2" T.O.E. - SCH.80 PVC	1
3	3" x 2" RED. BUSHING SCH.40 PVC	1
4	3" COUPLER - SCH.40 PVC	2
5	3" 90° ELBOW - SCH.40 PVC	1
6	3" T.O.E. - SCH 80 PVC	1
7	3" STREET 90° - GALV.	1
8	4" x 3" BUSHING - GALV.	1
9	12" x 4" EPXY. SADDLE	1
N/A	3" SCH.40 PVC PIPE	



3" FLUSHOUT W/ VENT & P.R.V. - 1x

LABEL	ITEM	#	PROD. / INV. #
1	3" PRESSURE RELIEF VALVE- 120#	1	FRESNO SERIES 3100
2	2" CONTINUOUS ACTING VENT	1	NETAFIM PRO-AIR 65ARIB2PRO
3	Ø3" x 4" T.O.E. -SCH.80 PVC	1	
4	Ø2" x 3" T.O.E. -SCH.80 PVC	1	
5	3" SPIG x 2" SOC REDUCER BUSHING - SCH.40 PVC	1	SPEARS 437-338
6	3" COUPLER - SCH.40 PVC	2	SPEARS 429-030
7	3" x 90° ELBOW - SCH. 40 PVC	2	SPEARS 406-030
8	3" TEE - SCH.40 PVC	1	SPEARS 401-030
N/A	Ø3" PIPE - SCH.40 PVC	~8FT	



THRUST BLOCKS

FOR ALL PIPE 5" AND LARGER, USE AT
EVERY CHANGE IN DIRECTION OR ELEVATION

PREPARED BY:

LAUREL
A G & WATER

**CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276**
POLETA RD & AIRPORT RD
BISHOP, CA

PREPARED FOR:

DATE

REVISIONS

#

IRRIGATION DETAILS

DESIGN: N. MURRAY

DRAWING: N. MURRAY

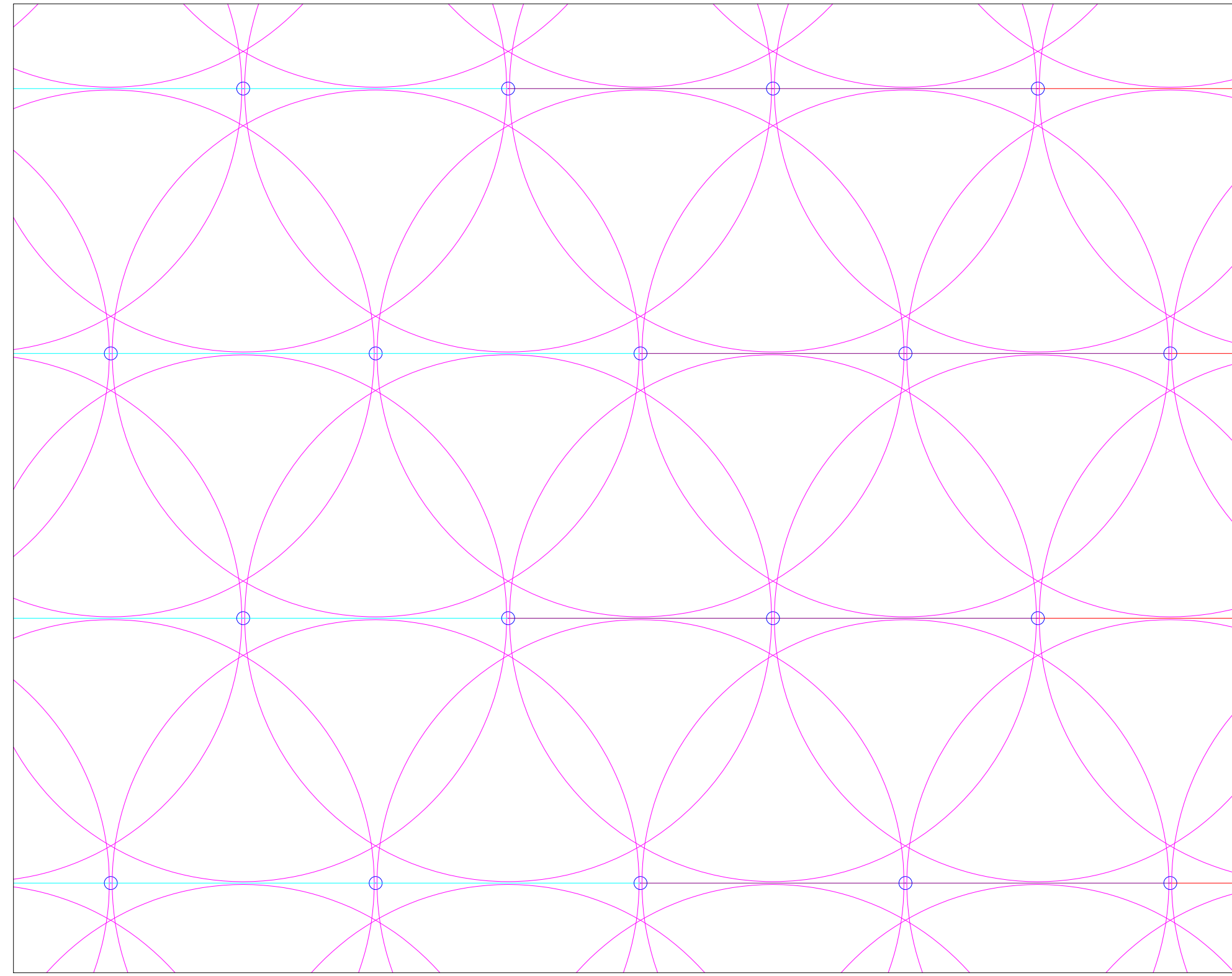
APPROVAL: LAUREL DESIGN

DATE: 02/05/2021

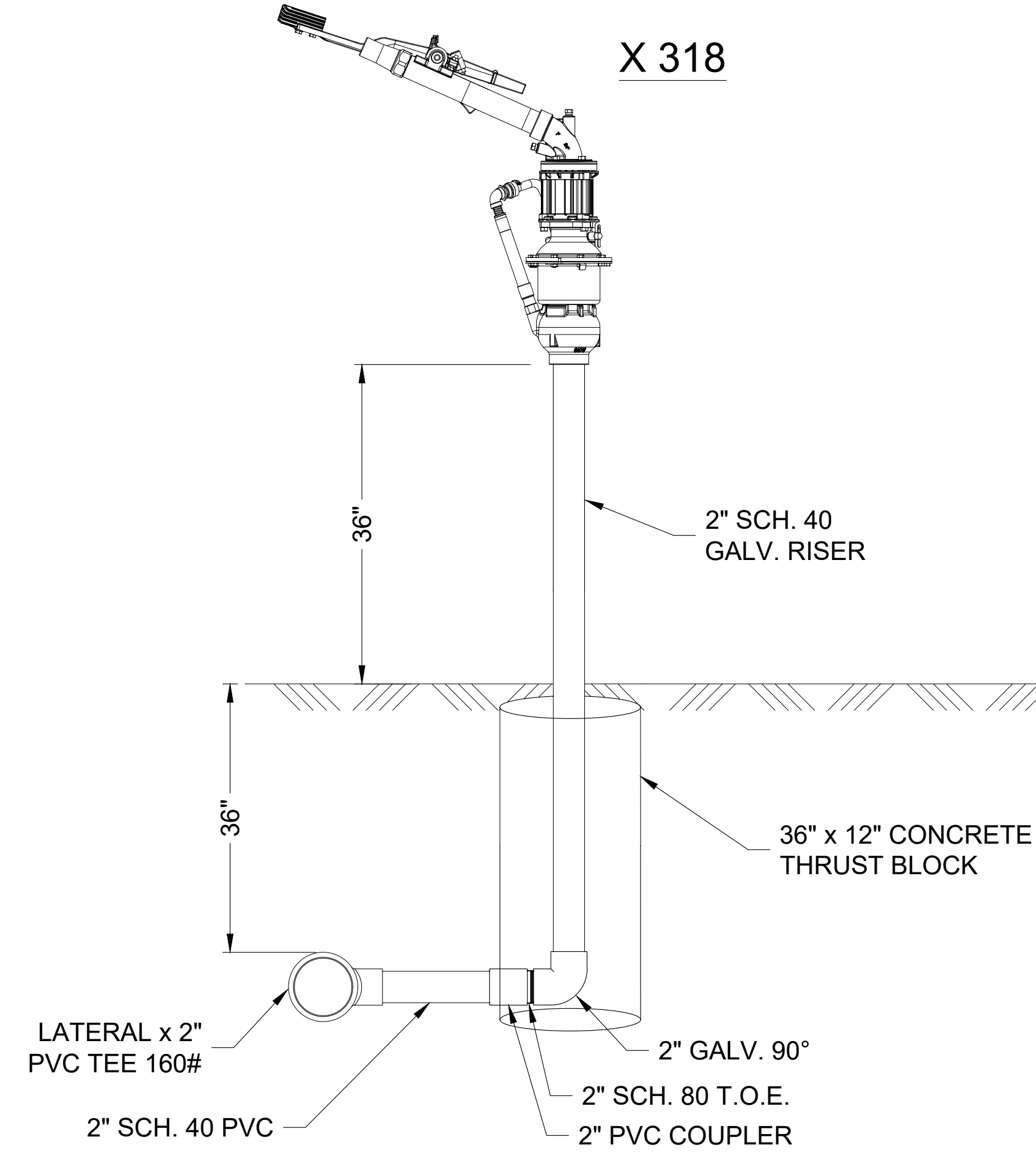
SHEET:

CI-501

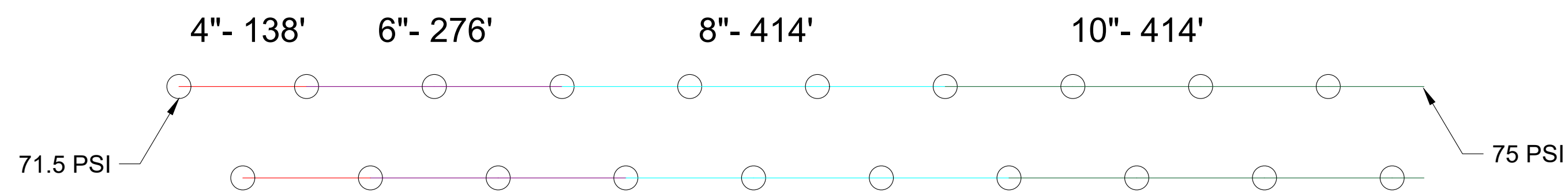
SPRINKLER PATTERN
NTS



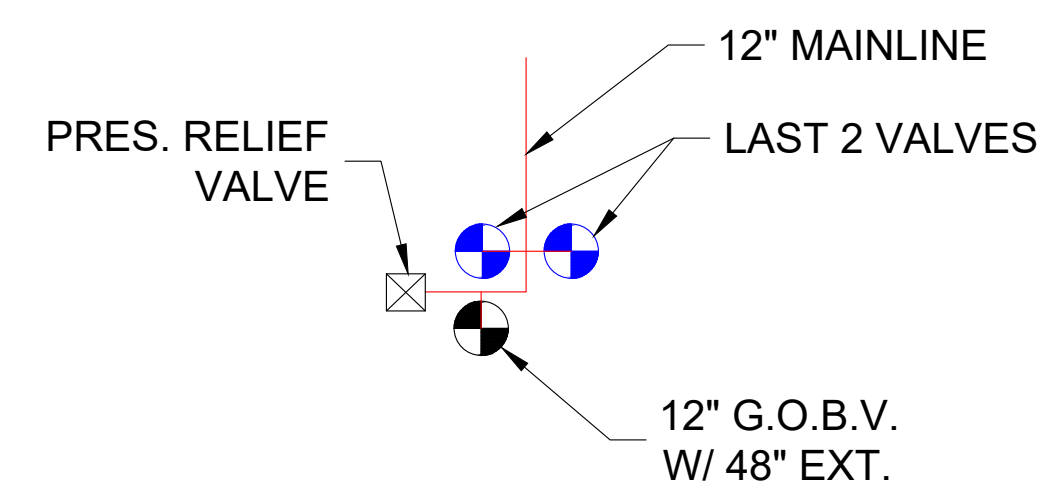
SR100 WITH & 2" RISER
ASSEMBLY STABILIZED W/ CONCRETE
NTS



LATERAL LOSS (10 HEADS)
NTS



END PHASE 1 DETAIL
NTS



PREPARED BY:

LAUREL
A G & W A T E R

**CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276**
POLETA RD & AIRPORT RD
BISHOP, CA

PREPARED FOR:

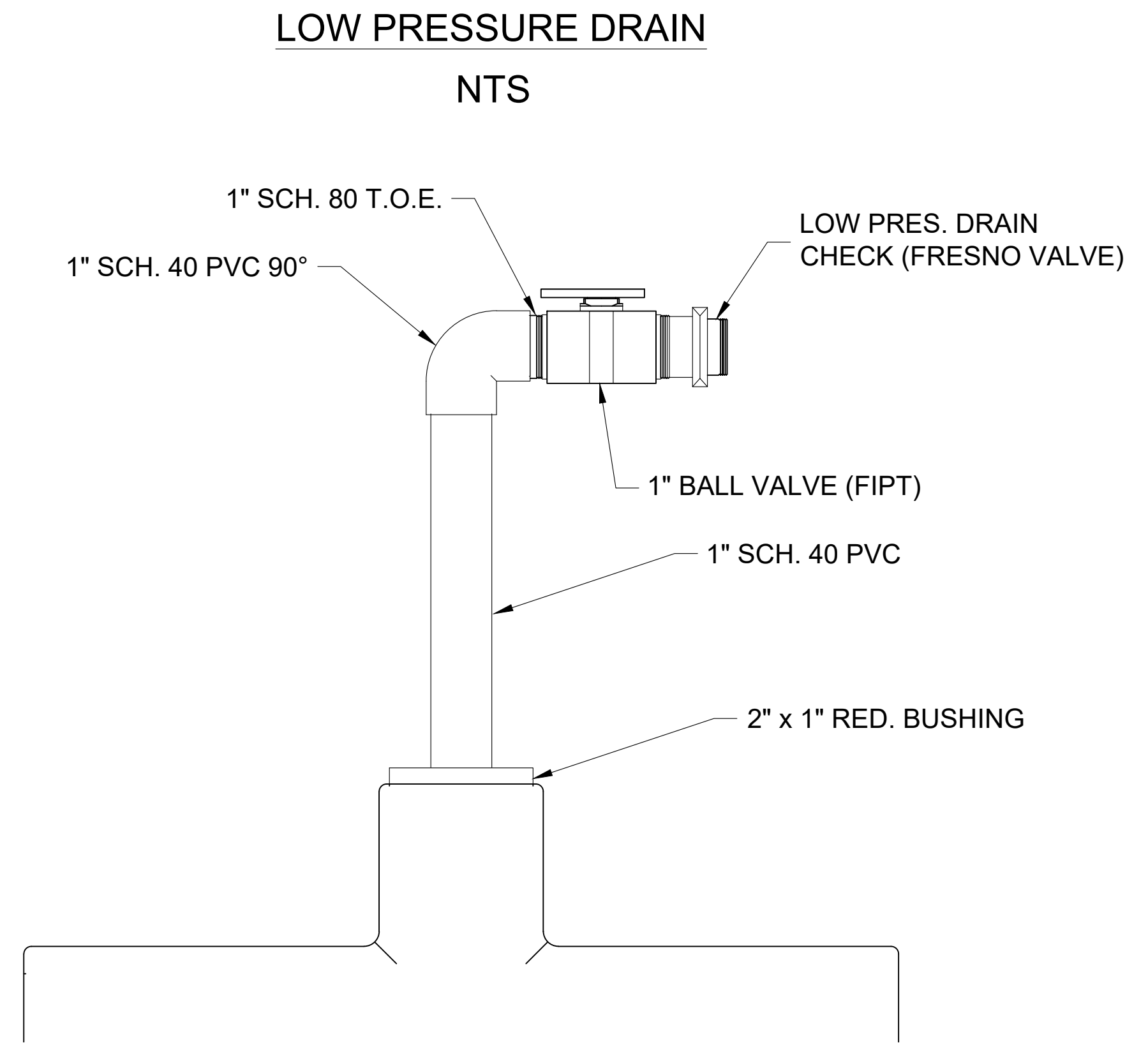
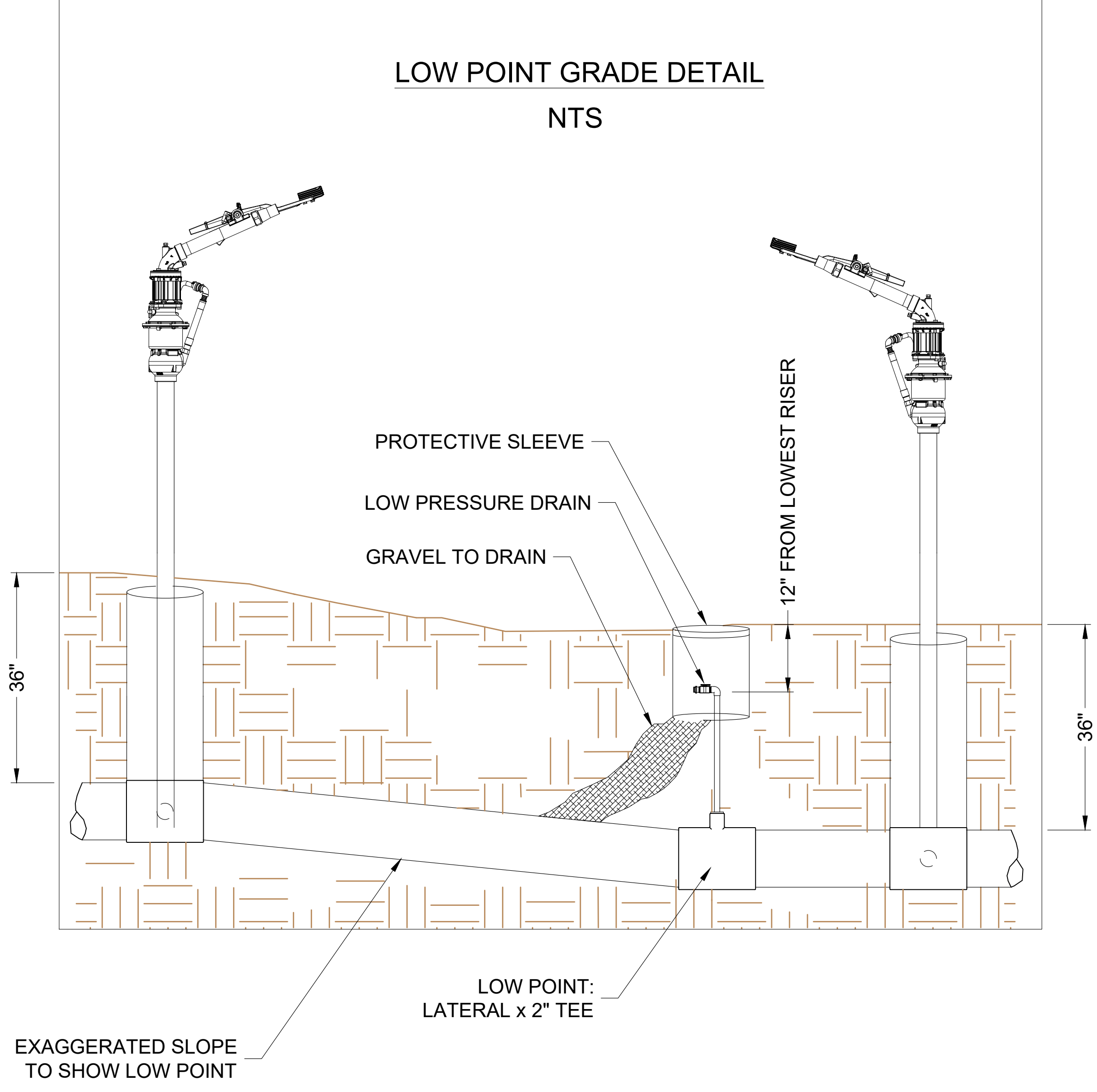
#	REVISIONS	DATE

DESIGN: N. MURRAY
DRAWING: N. MURRAY
APPROVAL: LAUREL DESIGN

IRRIGATION DETAILS

DATE: 02/05/2021
SHEET:

CI-501



IRRIGATION DETAILS

DATE: 02/05/2021
SHEET: CI-501

#	REVISIONS	DATE	PREPARED FOR:

DESIGN: N. MURRAY
DRAWING: N. MURRAY
APPROVAL: LAUREL DESIGN

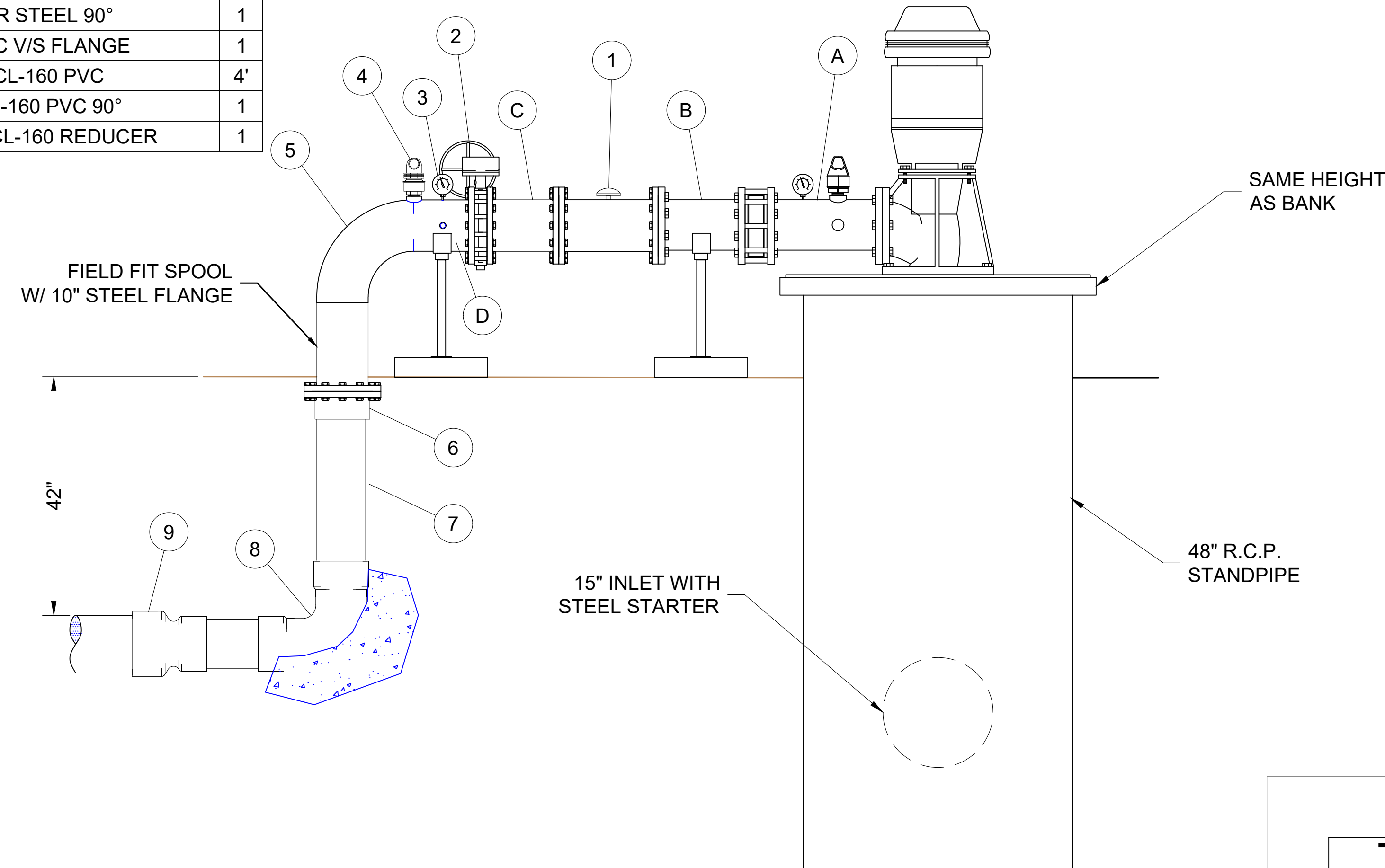
**CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276**
POLETA RD & AIRPORT RD
BISHOP, CA

PREPARED BY:



PUMP ASSEMBLY

LABEL	ITEM	#
1	10" DURA MAG METER	1
2	10" G.O. BUTTERFLY VALVE	1
3	PSI GAUGE	1
4	2" PRO-AG VENT	1
5	10" LR STEEL 90°	1
6	10" PVC V/S FLANGE	1
7	10" CL-160 PVC	4'
8	10" CL-160 PVC 90°	1
9	12" x 10" CL-160 REDUCER	1



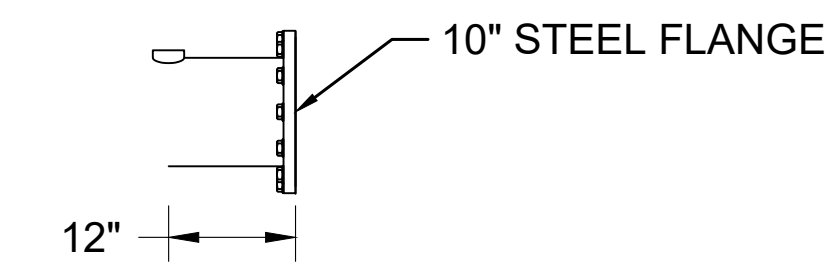
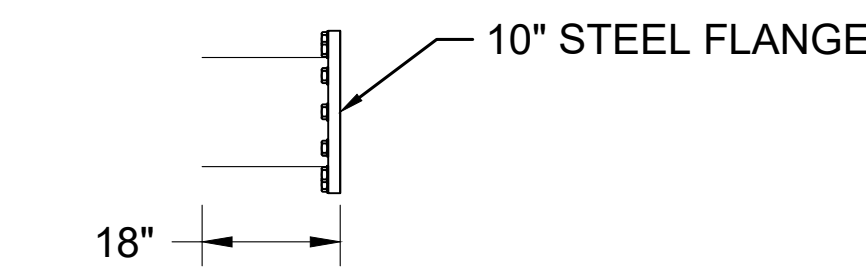
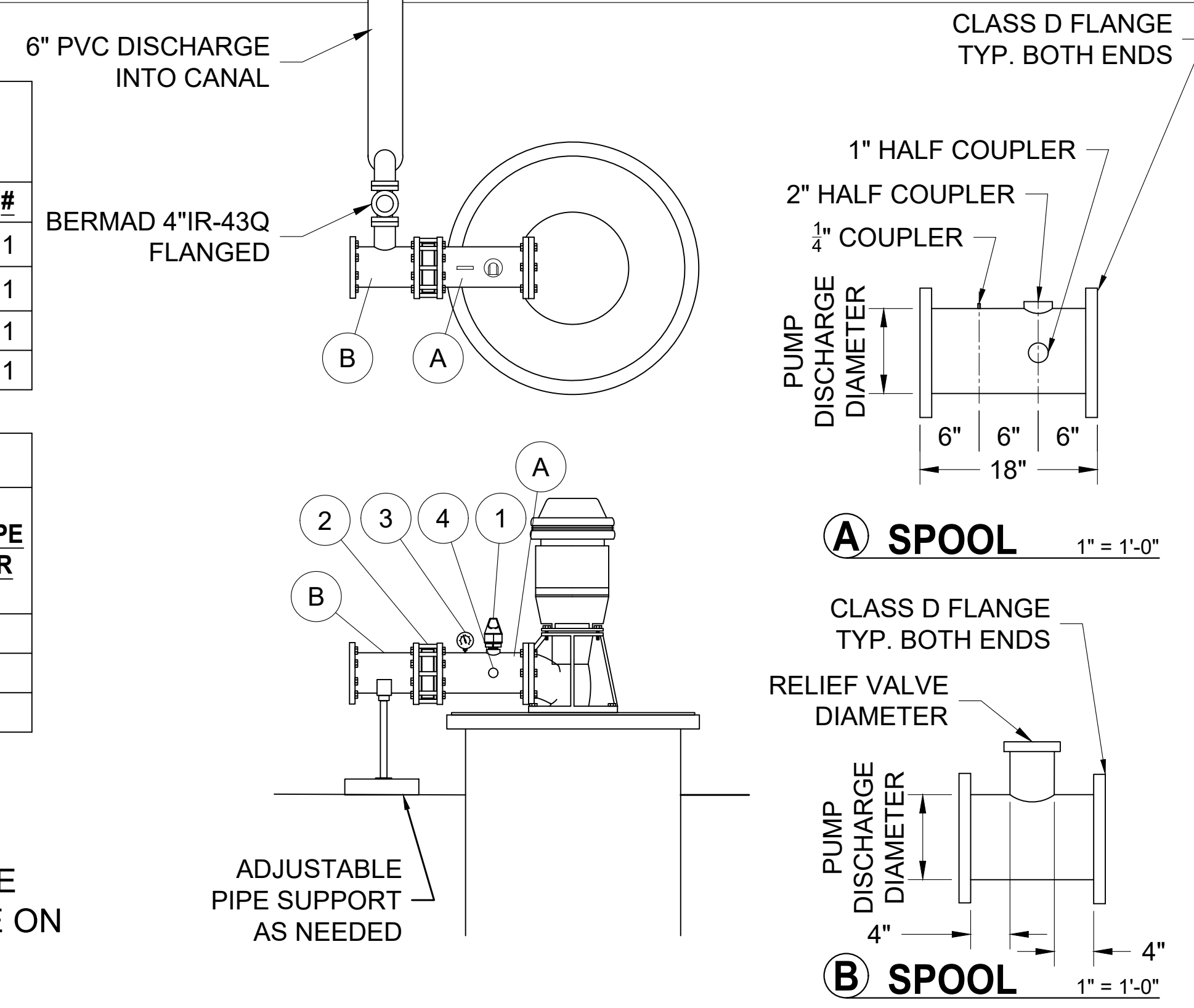
TYP. VERTICAL TURBINE PUMP DISCHARGE ASSM

LABEL	ITEM	#
1	2" LARGE ACTING AIR VENT	1
2	WAFER CHECK VALVE	1
3	PSI GAUGE	1
4	1" POLY BOLTED VALVE	1

RELIEF SIZING

PUMP DISCHARGE DIAMETER	RELIEF VALVE	RELIEF PIPE DIAMETER
< 8"	3" BERMAD IR-43Q	3"
10" - 12"	4" BERMAD IR-43Q	4"
> 12"	6" BERMAD IR-43Q	6"

NOTES:
PUMP DISCHARGE DIAMETERS ARE ESTIMATED. CONFIRM DISCHARGE ON DELIVERY.



C SPOOL NTS

D SPOOL NTS

**CITY OF BISHOP
WASTEWATER-PASTURE
OPPUSI-000276**
POLETA RD & AIRPORT RD
BISHOP, CA

REVISIONS DATE PREPARED FOR:

REVISIONS	DATE	PREPARED FOR:

DESIGN: N. MURRAY	MECHANICAL DETAILS
DRAWING: N. MURRAY	
APPROVAL: LAUREL DESIGN	

DATE: 02/10/2021

SHEET:

MF-501

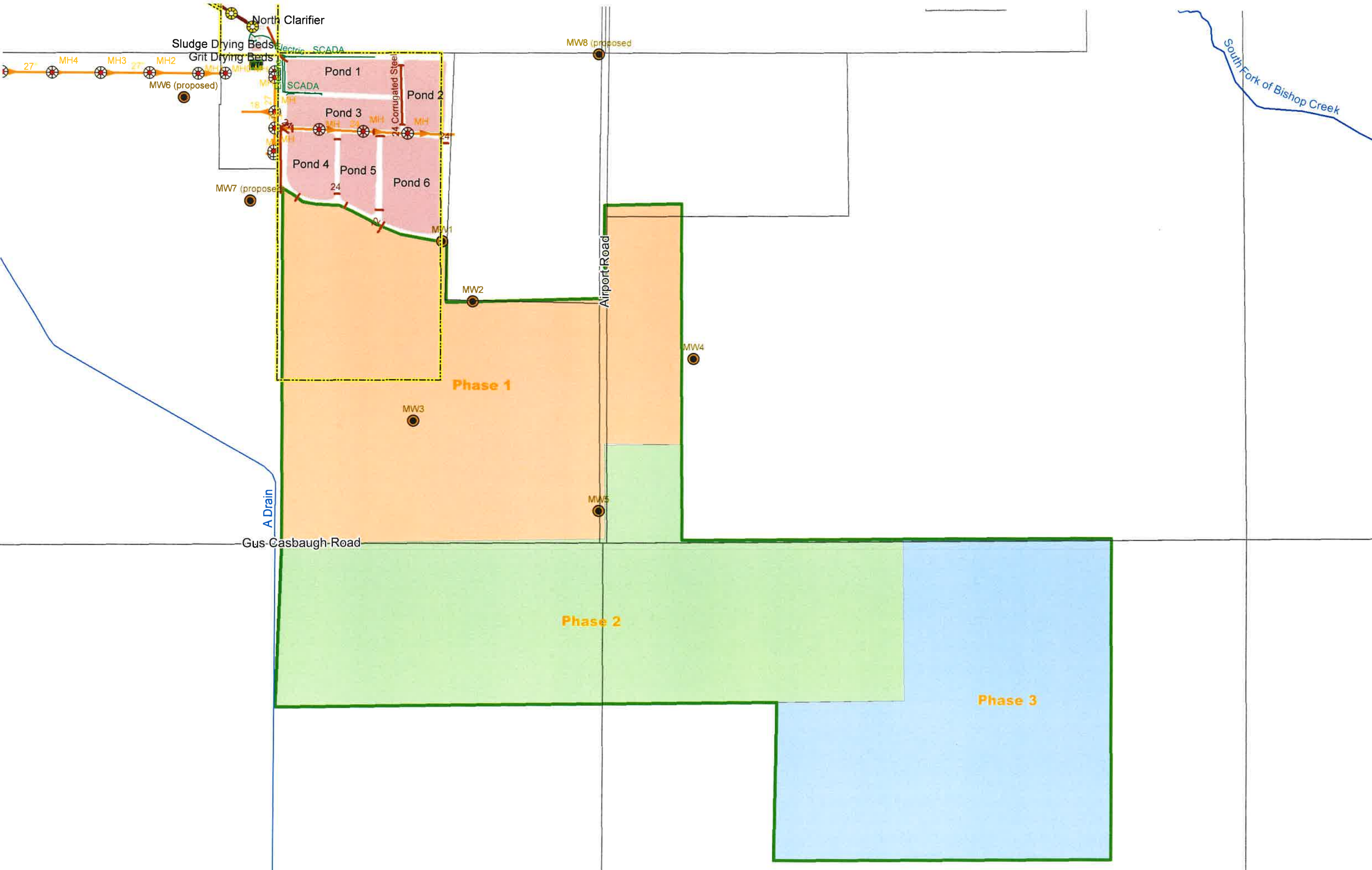




Exhibit A to Sales and Services Agreement
CITY OF BISHOP – PROJ004813

Date: April 1, 2021
Mailing Address:
241 W LINE ST
BISHOP, CA 93514

Crop: PASTURE
Job Location:
AIRPORT RD & SCHOBBER LN
BISHOP, CA

Scope of Work:

1. **Booster Pump & TWIG Controller**
 - a. Furnish and install 48" RCP pump stand.
 - b. Furnish and install necessary connection to existing corrugated HDPE discharge pipe from reservoir to new pump stand w/ 15" 80 PSI PIP PVC pipe and gear operated butterfly isolation valve.
 - c. Furnish and install new 100 HP short couple vertical turbine and 100HP Yaskawa VFD controller. Includes conduit wire and commissioning of pump. Pump to be controlled via Nelson TWIG on/off and Yaskawa PID loop for pressure set point. (DOES NOT INCLUDE ELECTRICAL UPSTREAM OF VFD PANEL).
 - d. Furnish and install TWIG controller
 - e. Furnish and install 10" steel discharge from pump with magnetic flow meter, isolation valve, fertigation ports and venting.
2. **Below Ground**
 - a. Furnish and install 6,908 LF of 12" CL160 PVC pipe per plan
 - b. Furnish and install 10,494 LF of 10" CL160 PVC pipe per plan
 - c. Furnish and install 15,180 LF of 8" CL160 PVC pipe per plan
 - d. Furnish and install 11,088 LF of 6" CL160 PVC pipe per plan
 - e. Furnish and install 5,566 LF ft of 4" CL160 PVC pipe per plan
 - f. Furnish and install two 12" gear operated butterfly isolation valves per plan
 - g. Furnish and install mainline flushout per plan
 - h. Furnish and install 39 low point, low pressure drains for freeze protection per plan
3. **Automatic valves**
 - a. Furnish and install 32 EA 8" Nelson 800 series electrically controlled valve w/ Twig connection.
 - b. Furnish and install 32 EA R37 valve boxes with galvanized, unlabeled lids and gravel pack underneath.
 - c. Furnish and install 32 EA TWIG Controllers mounted on 4x4 pressure treated post
4. **Big Guns**
 - a. Furnish and install 71 EA Nelson SR100 part circle sprinklers per plan.
 - b. Furnish and install 247 EA Nelson SR100 full circle sprinklers per plan.
 - c. Furnish and install 318 risers, underground connections and concrete thrust support for big gun installation.

**Exhibit A to Sales and Services Agreement
CITY OF BISIOP – PROJ004813**

Estimate #	Task Code	Description	Cost
ESTUSI-002280	MAT-000	Materials	\$ 1,073,612.01
ESTUSI-002483	BG-000	Pump Struc. & Source Connect. Install	\$ 34,277.78
ESTUSI-002483	PU-001	Pump Electrical, Automation Install	\$ 22,041.67
ESTUSI-002483	PU-000	Pump Install	\$ 12,465.28
ESTUSI-002483	BG-000	12" Pipe Install	\$ 115,133.56
ESTUSI-002483	BG-000	10" Pipe Install	\$ 167,612.27
ESTUSI-002483	BG-000	8" Pipe Install	\$ 237,187.50
ESTUSI-002483	BG-000	6" Pipe Install	\$ 123,199.88
ESTUSI-002483	BG-000	4" Pipe Install	\$ 60,298.15
ESTUSI-002483	BG-001	Lateral Valve & Twig Install	\$ 30,422.00
ESTUSI-002483	BG-002	12" isolation Valve Install	\$ 1,055.56
ESTUSI-002483	BG-003	Mainline Vent Install	\$ 812.50
ESTUSI-002483	BG-004	Flushout & Pressure Relief Install	\$ 520.83
ESTUSI-002483	BG-005	Lateral Low Point Drain Install	\$ 20,854.17
ESTUSI-002483	AG-000	Big Gun Installation	\$ 64,041.67
		Materials Subtotal	\$ 1,073,612.01
		Labor Subtotal	\$ 889,922.82
		Sales Tax (8.75%)	\$ 93,941.05
		Total Cost	\$ 2,057,475.88

Payment Terms (Sec 1.1 & 1.2 govern time for payment)			
Payment No.	Amount	Payment Description	Estimated due Date
1	617242.76	Down Payment	Signing
2	617242.76	2nd Installment	Mob Date
3	617242.76	3rd Installment	Material Land
4	205747.59	Final Payment	Commissioning

Additional Terms & Disclaimers:
This job proposal will proceed after both a signed contract and deposit have been received.
This contract is valid if signed within 14 days from the contract date
System flushing and startup is included
Additional material may be delivered to the job site for the purposes of delivering full truck loads or ensuring additional material is available for construction. Company shall retain ownership of all material not required for completion of the scope of work. No returns shall be credited without a processed change order.
Call USA before you dig (800)-642-2444
Drawings Attached: Yes: _____ No: _____

STAFF REPORT

To: Bishop Area Wastewater Authority Board
From: Deston Dishion
Subject: Update on Progress with the National Range Conservation Service
Prepared on: April 16, 2021



Approved By: _____
Deston Dishion, Administrator

Background/History:

Over the past 9 months I have been working closely with the National Range Conservation Service (NRCS). The local representative for the NRCS is Rob Pearce. Through NRCS the BAWA may be able to obtain funding to design and construct the planned irrigation system for the discharge of secondary treated wastewater.

Analysis/Discussion:

At this time I have completed all necessary forms and documents to apply for funding through the EQUIP Program. The funds would come from the USDA and projects for this funding cycle are being funded right now. We have a June 8, 2021 deadline to meet this year's funding cycle. At this point we are only lacking a letter from LADWP to the NRCS that would assure that BAWA has control of the land the project will be built on. Todd Thornburg of LADWP has drafted the letter and it is awaiting approval by Adam Perez.

Budget Impacts:

There are no budget impacts at this time.

Recommendation: No Action Requested
Informational item only, therefor no action is required.