



ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA
TRABUCO CANYON WATER DISTRICT
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CA
ADMINISTRATION FACILITY, BOARDROOM
SEPTEMBER 1, 2021 AT 7:00 AM

COMMITTEE MEMBERS

Edward Mandich, Committee Chair
Stephen Dopudja, Committee Member
Michael Safranski, Committee Member Alternate

DISTRICT STAFF

Fernando Paludi, General Manager
Michael Perea, District Secretary
Lorrie Lausten, District Engineer
Gary Kessler, Water System Superintendent
Jason Stroud, Maintenance Superintendent

AGENDA NOTE:

*Due to the spread of COVID-19 and as authorized by the Governor's Executive Order, Trabuco Canyon Water District will be holding this Engineering/Operational Committee Meeting by video broadcast (**Zoom**), and will be available by either video conference or telephone audio as follows:*

Video Conferencing: You can join the meeting from your computer, tablet, or smartphone by clicking on the following link: <https://zoom.us/j/97375627682>

Telephone Audio: 1 (669) 900-6833
Access Code: 973-7562-7682

Persons desiring to monitor the Committee meeting agenda items may download the agenda and documents on the internet at www.tcwd.ca.gov.

You may submit public comments by email to the Committee at mperea@tcwd.ca.gov. In order to be part of the record, emailed comments on meeting agenda items must be received by the District, at the referenced e-mail address, not later than 7:00 a.m. (PDT) on the day of the meeting.

CALL MEETING TO ORDER

VISITOR PARTICIPATION

Members of the public wishing to address the Committee regarding a particular item on the agenda are requested to submit public comments by email to the Committee at mperea@tcwd.ca.gov. The Committee Chair will call on the visitor following the Committee's discussion about the matter. Committees do not constitute a quorum of the Board of Directors and Committee Members cannot make decisions on matters. The Committee makes recommendations only to the Board of Directors. Members of the public will be given the opportunity to speak to the Committee prior to making a recommendation on the matter. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

ORAL COMMUNICATION

Members of the public who wish to make comment on matters not appearing on the agenda are requested to submit oral communication by email to the Committee at mperea@tcwd.ca.gov. Under the requirements of State Law, Directors cannot take action on items not identified on the agenda and will not make decisions on such matters. The Board President may direct District Staff to follow up on issues as may be deemed appropriate. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | SEPTEMBER 1, 2021

COMMITTEE MEMBER COMMENTS

REPORT FROM THE GENERAL MANAGER

ADMINISTRATIVE MATTERS

PRESENTER(S): FERNANDO PALUDI, GENERAL MANAGER
MICHAEL PEREA, DISTRICT SECRETARY

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar).

1. *June 9, 2021 Special Meeting*
2. *August 4, 2021 Regular Meeting*

ENGINEERING MATTERS

PRESENTER(S): FERNANDO PALUDI, GENERAL MANAGER
MICHAEL PEREA, ASSISTANT GENERAL MANAGER
LORRIE LAUSTEN, DISTRICT ENGINEER

ITEM 2: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING DIMENSION WATER TREATMENT PLANT BACKWASH TANK REPLACEMENT PROJECT

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting.

ITEM 3: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ELECTRICAL IMPROVEMENTS AT EL TORO SEWER LIFT STATION IMPROVEMENTS

RECOMMENDED ACTION:

1. *Committee to receive information at the time of the Committee Meeting.*
2. *Recommend the Board of Directors approve the Flo-Services proposal for Electrical Upgrades in the amount of \$175,698 with a 10% contingency for a total not to exceed amount of \$193,267 (Action Calendar).*

ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING HERITAGE SEWER LIFT STATION IMPROVEMENT PROJECT

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting.



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | SEPTEMBER 1, 2021**

ITEM 5: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING T-MOBILE CELLULAR SITE LEASE AMENDMENT NO. 2

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting and make recommendation(s) as deemed appropriate.

ITEM 6: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING THE APPROVAL OF TESCO CONTROLS EMASS PROGRAM CONTRACT

RECOMMENDED ACTION:

1. *Committee to receive information at the time of the Committee Meeting.*
2. *Recommend the Board of Directors approve the TESCO Controls proposal for the EMASS Program Service Contract (3 Years) for a not to exceed amount of \$84,000 (Action Calendar).*

ITEM 7: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Master Plan and Condition Assessment Update
2. Bell Canyon Sewer Lift Station Improvement Project
3. Saddleback Meadow Development
4. Saddlecrest Development
5. Other Projects

RECOMMENDED ACTION:

Committee to receive project status updates at time of the Committee Meeting.

OPERATIONAL MATTERS

**PRESENTER(S): GARY KESSLER, WATER SYSTEM SUPERINTENDENT
MICHAEL PEREA, ASSISTANT GENERAL MANAGER
JASON STROUD, MAINTENANCE DEPARTMENT SUPERINTENDENT**

ITEM 8: WATER SYSTEM UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

ITEM 9: WASTEWATER SYSTEM UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

ITEM 10: MAINTENANCE DEPARTMENT UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.



REGULATORY AND OTHER MATTERS

ITEM 11: OTHER MATTERS/REPORTS

RECOMMENDED ACTION:

Hear Other Matters/Reports that may have arisen after the posting of the agenda.

ADJOURNMENT

AVAILABILITY OF AGENDA MATERIALS

Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Trabuco Canyon Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the Trabuco Canyon Water District Administrative Facility, 32003 Dove Canyon Drive, Trabuco Canyon, California (District Administrative Facility) or will be posted online on the District's website located at www.tcwd.ca.gov. If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available online at www.tcwd.ca.gov at the same time as they are distributed to the Board Members, except that, if such writings are distributed immediately prior to or during the meeting, they will be posted online on the District's website located at www.tcwd.ca.gov.

COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTION 54954.2

In compliance with California law and the Americans with Disabilities Act, if you need special disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 858-0277, at least 48 hours in advance of the scheduled Board meeting. Notification at least 48 hours prior to the meeting will assist the District in making reasonable arrangements to accommodate your request. The Board Meeting Room is wheelchair accessible.

The District may conduct future meetings electronically (via teleconferencing) during the current ongoing emergency situation.



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ADMINISTRATIVE MATTERS

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar):

- 1. June 9, 2021 Special Meeting*
- 2. August 4, 2021 Regular Meeting*

CONTACTS (staff responsible): PALUDI/PEREA



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE SPECIAL MEETING RECAP
JUNE 9, 2021**

DIRECTORS PRESENT

Stephen Dopudja, Committee Chair
Michael Safranski, Committee Member Alternate

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Lisa Marie Sangi, Administrative Assistant

DISTRICT CONSULTANTS PRESENT VIA CONFERNECE CALL

None

PUBLIC PRESENT VIA CONFERNECE CALL

None

CALL MEETING TO ORDER

Director Dopudja called the June 9, 2021 Engineering/Operational Committee Special Meeting to order at 4:35 PM.

Public access to the meeting was made available by video broadcast.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

No comments were received.

REPORT FROM THE GENERAL MANAGER

No comments were received.

ITEM 1: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING TRABUCO CANYON WATER DISTRICT'S DOMESTIC WATER EMERGENCY STORAGE GOAL AND RELATED MATTERS

Mr. Paludi presented this matter for Committee review, and he provided a handout which summarized the current position taken by the developer for the Saddleback Meadows community as it relates to the construction of a water reservoir tank to meet the anticipated water demands. Mr. Paludi briefly reviewed the District's methodology for determining the costs to construct the reservoir based on established precedent with prior developers. Discussion occurred concerning certain proposed shared common costs and the anticipated maintenance costs, as well as potential alternative reservoir sites in the District's service area.

**TRABUCO CANYON WATER DISTRICT
SPECIAL ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JUNE 9, 2021**

RECOMMENDED ACTION

No action was taken.

ADJOURNMENT

Director Dopudja adjourned the June 9, 2021 Engineering/Operational Committee Special Meeting at 5:33 PM.

DRAFT



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | AUGUST 4, 2021

DIRECTORS PRESENT

Ed Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Lorrie Lausten, District Engineer
Karen Warner, Principal Accountant
Gary Kessler, Water Department Superintendent
Jason Stroud, Maintenance Superintendent
Oscar Ulloa, Wastewater Chief Plant Operator
Lisa Marie Sangi, Executive Assistant

PUBLIC PRESENT

None

PUBLIC PRESENT VIA CONFERENCE CALL

There were members of the public on the conference call

CALL MEETING TO ORDER

Director Mandich called the August 4, 2021 Engineering/Operational Committee Meeting to order at 7:00 AM. Public access to the meeting was made available by video broadcast.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

No comments were received.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi reported that a South Orange County Integrated Regional Watershed Management Executive Committee was scheduled for the following day.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Paludi presented the Engineering/Operational Committee Meeting Recap for Committee review in accordance with the agenda.

RECOMMENDED ACTION

The Committee recommended that the Engineering/Operational Committee Meeting Recap(s) be forwarded to the Board of Directors for approval (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | AUGUST 4, 2021**

ITEM 2: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING BELL CANYON SEWER LIFT STATION REHABILITATION PROJECT

Ms. Lausten provided brief project status update to the Committee, and she mentioned that the project was complete and operational as of July 14, 2021. Ms. Lausten reported that District staff has received community feedback concerning the facility screening specifically related to the onsite backup generator. Discussion occurred regarding community concerns related to the security gate and screening. Ms. Lausten reported that Dove Canyon Master Association expressed support in changing the gate screening, and she reviewed the proposed options with the Committee.

RECOMMENDED ACTION:

There was no action taken.

ITEM 3: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING DIMENSION WATER TREATMENT PLANT BACKWASH TANK REPLACEMENT PROJECT

Mr. Paludi introduced this matter to the Committee. Ms. Lausten provided a brief project status update, and she reviewed current project status photos with the Committee. Discussion occurred concerning contractor findings during demolition of the existing tank.

RECOMMENDED ACTION:

There was no action taken.

ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING THE SURGE TANK REPLACEMENT AT EL TORO SEWER LIFT STATION

Mr. Paludi introduced this action item to the Committee. Mr. Perea reviewed the project location map, and he reported that the facility was currently offline and bypassed downstream to an Irvine Ranch Water District (IRWD) facility. Mr. Perea reported that District staff has contracted with JIG Engineering to prepare a surge analysis to design the appropriate surge tank for the facility, and he added that District staff are waiting for a proposal from the contractor for the improvements. Discussion occurred concerning the potential cost of the improvements. Mr. Perea recommended the Committee approve a not to exceed budget of \$100,000 with subsequent Board ratification, and if the proposal exceeds \$100,000, then the matter is to be reviewed and approved by the Board at the next regular board meeting.

RECOMMENDED ACTION:

The Committee approved a not to exceed budget of \$100,000 with subsequent Board approval and any proposal that exceeds \$100,000 requires Board review and approval at the next regular board meeting (Action Calendar).

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Master Plan and Condition Assessment Update

Ms. Lausten provided a brief overview of the areas of focus, including the preparation of a sewer model, and she highlighted certain areas of concern identified by Wastewater Operations. Discussion occurred concerning sanitary sewer system design principles.

2. Heritage Sewer Lift Station Improvements

Ms. Lausten reported District staff is currently working with JIG Engineering on the facility improvement plans, including station bypass and sewer main improvements. Discussion occurred concerning the recent sanitary sewer overflow upstream and increased monitoring frequency. Ms. Lausten reported that more information will be presented at the next Engineering/Operational Committee Meeting.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | AUGUST 4, 2021**

3. Other Projects

None

RECOMMENDED ACTION

The Committee received the status updates. There was no action taken.

ITEM 6: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for July 2021, and he provided the additional highlights:

1. Water Operations staff installed a new flow totalizer on the Trabuco Pressure Regulator Valve (PRV) located at the Wells Facility.
2. Water Operations staff conducted Lead and Copper sampling (required every 3 years by EPA).
3. Water Operations staff worked with Meter Department to replace a broken curb stop on Morningstar in the Dove Canyon Community.
4. Water Operations staff installed two (2) cooling fans and two (2) exhaust vents in the filter building at the Dimension Water Treatment Plant.
5. Water Operations staff worked with the Orange County Rescue Mission to locate an existing water line and water valves.
6. Water Operations staff worked with Superior Tank on the construction of the new Backwash Recovery Tank.
7. Water Operations staff worked with the Maintenance Department to remove and rebuild Booster #3 at Dimension Water Treatment Plant.
8. Water Operations staff redesigned and rebuilt the chlorine room chemical feed manifold at the Dimension Water Treatment Plant.

Mr. Kessler mentioned that system demand was approximately 4 CFS.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 7: WASTEWATER SYSTEM UPDATES

Mr. Perea reviewed the projects and repairs for July 2021, and he reported that Wastewater Operations staff had completed the following tasks:

1. Worked with SS Mechanical to install a safety handrail at the Robinson Ranch Wastewater Treatment Plant.
2. Cleaned and graded the drying bed at the Robinson Ranch Wastewater Treatment Plant with fresh sand.
3. Replaced a waste valve at the Robinson Ranch Wastewater Treatment Plant.
4. Worked with the Maintenance Department to repair a Waste Activated Sludge (WAS) pump #2 check valve and a de-ragged pump at the Robinson Ranch Wastewater Treatment Plant.
5. Wastewater staff was onsite for the Bell Canyon Lift Station start-up.
6. Worked with the Maintenance Department to set up a temporary pump at Dove Lake in the Dove Canyon community.

Mr. Perea introduced Mr. Oscar Ulloa, Wastewater Chief Plant Operator, to the Committee, and he commended him for his hard work.

Mr. Perea reported that non-domestic water demand was higher due to the warmer weather and that Operations staff have implemented rental equipment which is similar to the planned pump improvements. Mr. Perea reported that after reviewing the Dove Canyon Golf Course (DCGC) system demands with the DCGC General

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | AUGUST 4, 2021**

Manager, they have committed to reducing their overall use during the next few months. Discussion occurred concerning future non-domestic water storage opportunities.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 8: MAINTENANCE DEPARTMENT UPDATES

Mr. Stroud reviewed the projects and repairs for July 2021, and he provided the additional highlights:

1. Maintenance Department staff assist Wastewater Operations with the temporary Dove Lake pump.
2. Maintenance Department staff assist Water Operations with the 3CFS booster pump removal for repair.
3. Maintenance Department staff was onsite with the Bell Canyon Lift Station startup.
4. Maintenance Department staff assisted Hydrotech Electric with the SCADA upgrade work at Dove Tank in the Dove Canyon Community.
5. Maintenance Department staff assisted Duthie Power Services with the generator repairs at the Via Alegre Lift Station.
6. Maintenance Department staff assisted Water Operations with the emergency generator and ATS rental install at the Field Office/Booster One.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 9: OTHER MATTERS/REPORTS

Mr. Paludi reported that Metropolitan Water District of Southern California (MET) has highlighted the impacts of the persistent drought conditions throughout the service area, including TCWD. Mr. Paludi added that water shortages are impacting potential responses.

Mr. Paludi provided a brief report on the challenges that Municipal Water District of Orange County (MWDOC) is experiencing in meeting the Conservation Framework requirements, and that they are currently reviewing options for contracting this work and/or utilizing internal staff to meet this requirement.

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the August 4, 2021 Engineering/Operational Committee Meeting at 8:01 AM.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ENGINEERING MATTERS

ITEM 2: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING DIMENSION WATER TREATMENT PLANT BACKWASH TANK REPLACEMENT PROJECT

Trabuco Canyon Water District (District) owns, operates, and maintains the Dimension Water Treatment Plant (WTP) in the City of Lake Forest. This plant receives untreated imported water from Metropolitan Water District (MWD), via the Baker Pipeline, and produces the majority of the water distributed to District customers. Within the WTP is the backwash waste sump pump which houses two pumps (10hp and 40hp) that transfer the backwash filter wastewater to two bolted steel waste settling tanks. These tanks hold the backwash and flush water and release it to the sewer system at approximately 250 gpm .

The two waste tanks are 42,000 gallons and the newest tank was constructed in 1987. The tanks are in poor condition due to severe corrosion and need replacement. JIG Consultants was retained by the District to research the existing infrastructure and determine which facilities are in service, provide recommendations for the upgrade to the tanks and demolition of abandoned facilities.

The District considered three types of tanks for replacement, including bolted steel, polyethylene, and fiberglass reinforced plastic (FRP). Based on the analysis of these tank materials and their relative costs and design limitations, the recommended tank material was a bolted steel.

At the February 17, 2021 Regular Board Meeting, the Board of Directors authorized the General Manager to execute a contract with Superior Tank for the Dimension Water Treatment Plant Backwash Settling Tank Improvements in the amount of \$249,876, with a contingency of \$25,000, for a not to exceed amount of \$274,876.

FUNDING SOURCE:

General Fund

FISCAL IMPACT (PROJECT BUDGET):

\$274,876 total revised project budget, with \$150,000 included in the Capital Improvement Program budget for FY 2020-21.

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption was filed with the County of Orange on February 2, 2021.

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting.

EXHIBIT(S):

1. Project Photos
2. Schedule

CONTACTS (staff responsible): PALUDI/LAUSTEN

DIMENSION WTP BACKWASH SETTLING TANK REPLACEMENT

Trabuco Canyon Water District
September 1, 2021 E&O Committee



DRAFT

TECHNICAL MEMORANDUM

To: Lorrie Lausten, PE
District Engineer
Trabuco Canyon Water District

From: Joseph Gutierrez, PE, PMP (JIG – Project Manager)
Jason Tran, EIT (JIG – Civil Designer)

Date: January 28, 2021

Subject: Technical Memorandum
Dimension Water Treatment Plant – Backwash Settling Tanks Improvements

PROJECT BACKGROUND

Trabuco Canyon Water District (TCWD) owns and operates the Dimension Water Treatment Plant (DWTP) located at 20904 Dimension Drive, in the City of Lake Forest. The DWTP is a surface water treatment plant designed to primarily treat imported raw surface water from Metropolitan Water District of Southern California (MET) and purchased through the Municipal Water District of Orange County. The DWTP can also receive local water from Irvine Lake during emergencies. Water stored in Irvine Lake is a combination of MET water and water collected from its local watershed.

The DWTP produces high quality potable water exceeding California drinking water standards by using filtration, disinfection, and multi-barrier treatments. The DWTP has a nominal design capacity of 6 cfs and primarily consist of: pretreatment facilities, contact clarifiers, gravity tri-media filters, and post treatment facilities. Other facilities necessary for plant operation include a final effluent clear well and pump station, flushing and filter backwash system, process monitoring instrumentation and control centers.

The DWTP has been upgraded multiple times since its inception. The filtration and backwash equipment have been retrofitted and relocated on several occasions. As such, there are an abundance of abandoned underground pipelines and structures on site.

Within the last year, TCWD experienced leakage on one of the two existing 42,000-gallons backwash settling tanks. Because of age and condition, TCWD has committed to replacing the two existing bolted steel tanks. See **Photo 1** for a view of the northerly backwash settling tank.

This technical memorandum will review record drawings, identify existing and abandoned infrastructures at the DWTP, prepare a site exhibit, recommend removal of abandoned infrastructures, demolition of the existing backwash settling tanks, and improvements required for the tank replacements.

SCOPE OF WORK

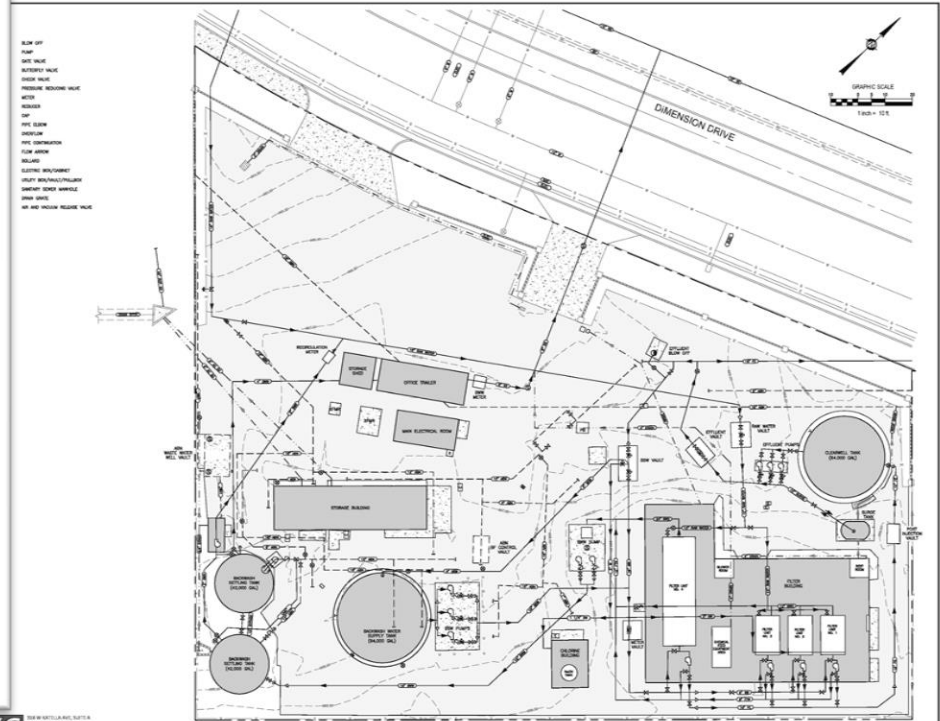
This technical memorandum was prepared under an On-Call Engineering contract between JIG Consultants (JIG) and TCWD. The scope of work for this study were as follows:



Photo 1 – Existing 42,000-Gallon Backwash Settling Tank

318 W. Katella Ave., Suite A
Orange, CA 92667
Office: (714) 978-4407
Fax: (714) 908-4654
www.jigconsultants.com

			PROJECT NO: 2021-001 SHEET NO: 01 OF 01 DATE: 01/28/21
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TRABUCO CANYON WATER DISTRICT
DIMENSION WATER TREATMENT PLANT
FIGURE 4
DIMENSION WATER TREATMENT PLANT
EXISTING SITE PLAN



Ringwall Footing



Placement of Base



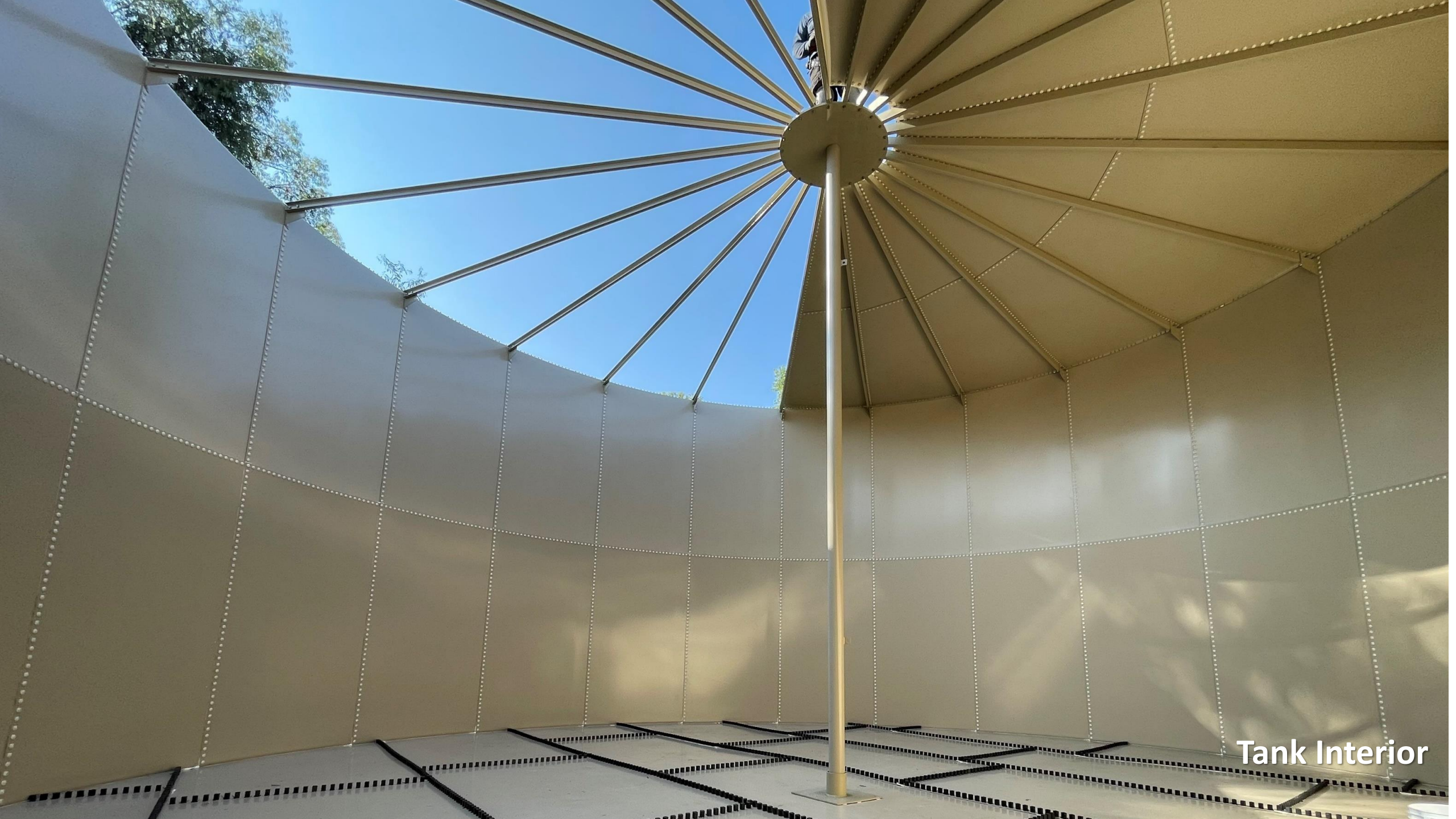
Ready for Tank Erection

Tank Interior



Roof Panel Installation





Tank Interior

ID	Task Mode	Task Name	Duration	Start	Finish	Calendar																											
						Jun 13, '21	Jun 27, '21	Jul 11, '21	Jul 25, '21	Aug 8, '21	Aug 22, '21	Sep 5, '21	Sep 19, '21	Oct 3, '21	Oct 17, '21	O																	
						F	T	S	W	S	T	M	F	T	S	W	S	T	M	F	T	S	W	S	T	M	F						
0		TCWD Waste Tank Improvement Project STCI Job#15769R	91 days	Mon 6/21/21	Wed 10/27/21																												
1		Project Schedule	0 days	Mon 6/21/21	Mon 6/21/21																												
2		Demo	14 days	Mon 6/21/21	Fri 7/9/21																												
3		Demo of Tanks & Building	5 days	Mon 6/21/21	Fri 6/25/21																												
4		Breakdown concrete in tank	2 days	Wed 6/30/21	Thu 7/1/21																												
5		Remove located underground pipe & concrete vault	5 days	Fri 7/2/21	Fri 7/9/21																												
6		Concrete Ringwall	31 days	Fri 7/9/21	Fri 8/20/21																												
7		Over-Ex and recompact of soils	8 days	Fri 7/9/21	Tue 7/20/21																												
8		tie in piping & delays	11 days	Wed 7/21/21	Wed 8/4/21																												
9		Forming & delay with forming and rebar	3 days	Thu 8/5/21	Mon 8/9/21																												
10		Install Rebar	3 days	Tue 8/10/21	Thu 8/12/21																												
11		Pour Concrete & Strip	3 days	Fri 8/13/21	Tue 8/17/21																												
12		Gravel Backfill	3 days	Wed 8/18/21	Fri 8/20/21																												
13		New Tank	23 days	Mon 8/23/21	Thu 9/23/21																												
14		Furnish & Install New Bolted Tank	10 days	Mon 8/23/21	Fri 9/3/21																												
15		Install Piping, Valves & Supports	13 days	Tue 9/7/21	Thu 9/23/21																												
16		Post Tank Work	24 days	Fri 9/24/21	Wed 10/27/21																												
17		AC Pavement	5 days	Fri 9/24/21	Thu 9/30/21																												
18		Reinforced Concrete Ribbon	14 days	Fri 10/1/21	Wed 10/20/21																												
19		Demobilize	5 days	Thu 10/21/21	Wed 10/27/21																												

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ENGINEERING MATTERS

ITEM 3: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ELECTRICAL IMPROVEMENTS AT EL TORO SEWER LIFT STATION

Trabuco Canyon Water District (District) owns and operates the El Toro Lift Station (Station) near the intersection of El Toro Road and Santa Margarita Parkway (SMP) in the City of Lake Forest. The station is a three (3)-level lift station consisting of a control room, storage room, pump room (dry pit), surge tank and wet wells. The lift station has a dual wet well/dry pit configuration with two separate wet wells. The station pumps from a gravity pipeline flowing east to west along El Toro Road to a force main in SMP, which conveys the flows to the Chiquita Treatment Plant owned and operated by Santa Margarita Water District.

In Fiscal Years Ending (FYE) 2019 & 2020, District staff has replaced pumps at this facility with the assistance of Flo-Services which is shared cost with Santa Margarita Water District (SMWD). At this time, District staff recommends the replacement of certain electrical wiring and conduit throughout the station, including wiring from the MCC to the pumps. Flo-Services, the contractor that installed the new pumps, has provided a proposal for the electrical work.

FUNDING SOURCE:

Reserves (Unbudgeted)

FISCAL IMPACT (PROJECT BUDGET):

\$191,400

ENVIRONMENTAL COMPLIANCE:

Not applicable

RECOMMENDED ACTION:

1. *Committee to receive information at the time of the Committee Meeting.*
2. *Recommend the Board of Directors approve the Flo-Services proposal for Electrical Upgrades in the amount of \$175,698 with a 10% contingency for a total not to exceed amount of \$193,267 (Action Calendar).*

EXHIBIT(S):

1. Project Location Map
2. Flo-Services Electrical Upgrades Proposal

CONTACTS (staff responsible): PALUDI/PEREA/STROUD



Project Location



LOCATION MAP

 Area of Work

El Toro Sewer Lift Station

August 27, 2021
 Proposal #21-026-R
 Page 1 of 6

Trabuco Canyon Water District
 32003 Dove Canyon Drive
 Trabuco Canyon, California 92679

Attention: Jason Stroud
 Email: jstroud@tcwd.ca.gov
 Telephone: 949-858-0277

Re: El Toro Sewage Pump Station
 New North Side and South Side Pumps- Electrical Upgrade

Dear Jason,

Flo-Services is pleased to present our estimated time and material proposal to modify and upgrade the existing electrical on the North Side and South side pumps to include new motor disconnect switches, wire, and district requested PVC coated conduit and fittings:

Estimated Material-Item #1

One-Lot- 4" PVC Coated Condulete Bodies, Nipples, Fittings, Clamps, and Strut Supports \$12,506.54

For installation of three phase 480-volt conduit and materials between the existing ground level motor control center to the bottom level proposed new stainless steel pull box listed below.

One-Lot- 2" PVC Coated Condulete Bodies, Nipples, Fittings, Clamps, and Strut Supports \$11,031.74

For installation of three phase 480-volt conduit between the bottom level proposed new stainless steel pull box to the first and second stage of the north side and south side pump disconnect switches and to each of the first and second stage north side and south side pump motor junction boxes.

One-Lot- 3/4" PVC Coated Condulete Bodies, Nipples, Fittings, Clamps, and Strut Supports \$ 4,348.42

For installation of single phase 120-volt conduit and fittings between the ground level motor control center directly into the first and second stage north side and south side pump motor junction boxes.

One-Lot- THHWN Copper Stranded Wire	\$16,248.12
One- Lot- PVC Coated and/or Stainless Steel Channel	\$ 1,838.34
One- Lot- Liquid Tight Flex with fittings	\$ 924.28
One-Lot- Electrical Wire Connectors and Misc. Electrical Materials	\$ 715.00
One-Lot- 316 Stainless Steel Wedge Anchors with Hardware	\$ 385.56
One-Lot- PVC Coating Touch Up Materials and Special Tools	\$ 2,990.10
One-NEMA 3R; 316 Stainless Steel Pull Box with Rain Shield	\$ 4,263.51
Four-200Amp Lockable Motor Disconnect Knife Switches 316 Stainless Steel	\$26,303.20
Estimated Sales Tax 7.75 %	\$ 6,312.75
Estimated Incoming Freight to Flo-Services	\$ 3,600.00
Estimated Price for materials in Item #1 mentioned above (Includes estimated freight to the jobsite and estimated sales tax)	\$91,367.56 _____ Initials

Estimated Labor- Item #2

Estimated field labor/travel to/and from El Toro Pump Station. Deenergize the existing Motor Control Center, knock out a 4" hole in the lower left of this MCC enclosure and a 3/4" hole in the top of the MCC enclosure. Core drill into the existing concrete floor. Install a 4" PVC coated conduit and wire from the existing MCC into a new pull box installed on the pump level wall. Install a 3/4" conduit and wire from the existing MCC to each north side and south side newly installed pump motors on the lower level of the pump station. Mount the four stainless-steel pump disconnect switches on the north side wall for both the north side and south side pumps. Install conduit and wire from the new pull box to the new disconnect switches. Install conduit and wire between the new disconnect switches to each set of the newly installed north side and south side motors.

Estimated Field Labor & Travel – Portal to Portal – 3 Men 144 Hours Regular Time @ \$390.00 Per Hour	\$56,160.00
Estimated Mileage – Portal to Portal (Service Truck) 110 Miles @ \$1.55 Per Mile x 5 Trips	\$ 852.50
Estimated Mileage – Portal to Portal (Utility Truck) 110 Miles @ \$1.35 Per Mile x 5 trips	\$ 742.50

18 days-Equipment/Tool Truck Fee	\$480.00 Per day	\$ 8,640.00	
Estimated Per Diem - 15 Nights – 3 Men @ \$750.00 Per Night		\$11,250.00	
Estimated Price for Core Drilling		\$ 2,400.00	
Estimated Price for Labor in Item #2 mentioned above		\$ 80,045.00	<u> </u> Initials
Estimated Price for Performance/Payment Bond		\$ 4,285.31	<u> </u> Initials
Estimated Price for Item #1 and Item #2 mentioned above with estimated price of performance/payment Bond		\$175,697.87	<u> </u> Initials

Note: There is a very limited area for the installation of the 4” conduit. We are assuming there will not be any issues and/or obstructions with core drilling through the existing concrete upper floor for installation of this conduit. If this is not accurate than we will need to adjust this installation accordingly, which will affect the price and scope of the work listed in this proposal. Flo-Services will be using all the existing electrical starters, breakers, controls, etc. inside the existing Motor Control Center. The PVC coated material mentioned above is manufactured by Calbond and will require specially manufactured nipples that are cut and threaded to size by the factory for this installation. This is a time and material proposal you will be invoiced according to the rate sheet below. Permits are at cost plus 15 % (If required).

SCHEDULE OF COMPENSATION
FLO-SERVICES, INC.
TRABUCO CANYON WATER DISTRICT

PUMP REPAIR, MAINTENANCE AND SERVICE
TO INCLUDE ONSITE ELECTRICAL AND MECHANICAL RELATED EQUIPMENT

SERVICE RATES – PORTAL TO PORTAL-YEAR 2021

One Man and Service Truck	\$135.00 per hour
Two Men and Service Truck	\$270.00 per hour
Three Men & Service Truck	\$390.00 per hour
Shop Labor – One Man	\$125.00 per hour
Confined Space Entry Fee per day	\$425.00 per day
Per diem	@actual cost +15%
Equipment and Tool Truck	\$480.00 per day
Pick Up/Delivery Fee-Pick Up Truck with Driver	\$60.00 per hour

Mark-up on parts and equipment will be cost + 15% overhead and + 15% profit.

The above rates apply to normal working hours or within an eight-hour working day, Monday through Friday, 7:00 a.m. to 3:30 p.m. Add fifty percent for the period Monday through Friday, 3:30 p.m. to 7:30 p.m. or after any eight-hour workday. Add double the rate for the period Monday through Friday 7:30 p.m. to 7:00 a.m. or after any 12-hour workday, Saturday, Sunday, Holidays, and any hours not mentioned above.

Add mileage at \$1.55 per mile for a one-ton service truck. Add mileage at \$1.35 per mile for ¾ ton utility truck.

John Krukowski, Principal employee's rate of \$225.00 per hour, portal to portal, plus mileage to assist City/District personnel with review of equipment, drawings, meetings, etc., on an as needed basis, when required.

California state sales tax will be added to all equipment and material.

Flo-Services, Inc. contact – John Krukowski – cell phone 818-262-8392

FLO-SERVICES, INC. Contractor's License Number is 988492
FLO-SERVICES, INC. DIR # 1000011247
Rates as of 6-2021

THIS PROPOSAL EXPIRES IN 30 DAYS from the date of this proposal or bid opening date, if applicable. The Sellers work and responsibility is expressly limited to providing materials and performing the services listed in this proposal. Design, application and direction for work and materials are to be provided by and responsibility of the Buyer. Flo- Services Total liability of the Seller for his purchase agreement including indemnity, liquidated damages, actual damages, special damages and consequential damages is limited to the coverage offered and paid by the Seller's insurance policies.

Liquidated/Actual damages are further limited to what is assessed by the Owner, paid to Owner and assessed due to the sole cause of Seller's delays.

CUSTOMER agrees to pay all charges due hereunder. Terms are COD. Alterations to the equipment may require an increase in service rates.

FLO-SERVICES Contractor's license Number is: 988492

The expiration date of FLO-SERVICES Contractor's license is: 11/30/21

Bidder acknowledges that Section 7028.15 (e) of the Business and Professions Code provides as follows: A license contractor shall not submit a bid to a public agency unless his or her contractor's license number appears clearly on the bid, the license expiration date is stated, and the bid contains a statement that the representations herein are made under penalty of perjury. Any bid not containing this information, or a bid containing the information, which is subsequently proven false, shall be considered non-responsive and shall be rejected by the public agency."

The undersigned declares, under penalty of perjury, that the representations made by the undersigned in the bid proposal are true and correct.

Thank you for your consideration to this proposal.

Very truly yours,


John Krukowski
FLO-SERVICES, INC.

TERMS OF SALE

1. ACCEPTANCE. "SELLER" is Flo-Services, Inc. who may function as a SUB-CONTRACTOR, REPAIR AND SERVICE ORGANIZATION OR VENDOR. "BUYER" is the CUSTOMER who may function as a CONTRACTOR, OWNER, ETC. These terms govern the purchase and sale of equipment, contractor's services, etc., referred to in SELLER'S proposal or acknowledgement. SELLER rejects all additional or different terms in any of BUYER'S forms or documents unless specifically accepted by SELLER in writing.
2. PAYMENT. Terms are COD.
3. RETENTIONS, unless herein authorized by SELLER, are not allowed.
4. BACK CHARGES The BUYER agrees to pay reasonable BACK CHARGES (based on actual cost plus profit, overhead and taxes) for any special services, additional equipment, repairs etc. made necessary by the omissions, mistakes, accidents, negligence or miscalculations of the BUYER, ENGINEER or OWNER. Commensurate with the urgency, nature and scope of the back charge, SELLER shall give BUYER advance notice of the intended back charge, but such advance notice shall not be a prerequisite for BACK CHARGES against the BUYER. Any BACK CHARGES from the intended BUYER, not authorized in writing by SELLER, will not be recognized.
5. DELIVERY. SELLER shall not be liable for delays due to fire, flood, labor issues, war, civil disorders, delay in transportation, inability to obtain materials, accidents, acts of God or other causes beyond SELLER'S reasonable control.
6. RESPONSIBILITY. SELLER shall not be responsible for damage to equipment if misused, improperly stored, installed or maintained. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE, COLLATERAL, LIQUIDATED OR OTHER INDIRECT DAMAGES. CONSEQUENTIAL DAMAGES FOR THE PURPOSES OF THIS AGREEMENT SHALL INCLUDE BUT NOT BE LIMITED TO, LOSS OF USE, INCOME, PROFIT, LOSS OF OR DAMAGE TO PROPERTY, ETC. These limitations apply whether the liability is based upon contract, tort, strict liability or any other theory.
7. WARRANTY. For benefit of the original user, SELLER warrants all new equipment sold to be free from defects in material and workmanship, and will replace or repair, F.O.B. at its factories or other location designated by it, any part or parts returned to it which SELLERS examination shall show to have failed under normal use and service by the original user within one year following initial shipment to the BUYER. This warranty does not cover damage by decomposition from chemical action or wear caused by abrasive materials nor does it cover damage resulting from misuse, alteration, accident or neglect, or from improper operation, maintenance, installation, modification or adjustment. Such repair or replacement shall be free for all items except for those items that are consumable and normally replaced during maintenance. THIS WARRANTY IS EXPRESSLY MADE BY SELLER AND ACCEPTED BY BUYER IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED.
8. COMPLIANCE WITH LAWS. BUYER shall be solely responsible for securing any necessary permits and for compliance with all safety, health, sanitation and any other laws, ordinances and regulations in connection with the design, installation and operation of the equipment.
9. INDEMNIFICATION. It is understood that SELLER has relied upon data furnished by and on behalf of BUYER with respect to the safety aspects and application of the equipment and that it is BUYERS responsibility to assure that the equipment will, when installed and put in use, be in compliance with requirements fixed by law and otherwise legally adequate to safeguard against injuries or damage to persons or property. BUYER hereby agrees to defend, indemnify and hold harmless SELLER, its agents and employees against any and all losses, costs, damages, claims, liabilities or expenses, arising out of or resulting from any injury or damage to any person or property caused by the inadequacy of safety features, devices or characteristics in the equipment or in the installation, use or operation of the same, except claims for repair or replacement of defective parts are provided in Paragraph 7 hereof. Within the policy limitations of the SELLERS insurance policies, SELLER will indemnify, defend and hold BUYER harmless from any claim, cause of action or liability incurred by BUYER as a result of third party claims for personal injury, death or damage to tangible property, to the extent caused by SELLERS sole negligence. SELLER shall have the sole authority to direct the defense of and settle any indemnified claim. SELLER'S indemnification is conditioned on BUYER (a) promptly notifying SELLER of any claim, and (b) providing reasonable cooperation in the defense of any claim.
8. TITLE & LIEN RIGHTS. After delivery to Buyer, Seller will have all such rights, including security interests and liens, in the equipment as lawfully may be conferred upon Seller by contract under any applicable provision of law.
9. MISCELLANEOUS. Goods may not be returned without previous written permission and are subject to a restocking charge. The SELLER may cancel agreement only upon written notice and payment of reasonable cancellation charges, including anticipated profit. Attorney's fees and court costs necessary to enforce these terms of sale will be paid to the prevailing party. No part of the Agreement may be changed or cancelled except by a written document signed by SELLER and BUYER. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable and all other terms shall remain in full force and effect. BUYER may not assign or permit any other transfer of the Agreement without SELLERS prior written consent. The Agreement shall be governed by the laws of the State of California without regard to its conflict of laws provisions.

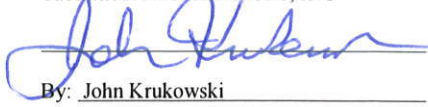
Acceptance of this proposal with the terms referred to herein may be accomplished by executing this document or by providing a BUYERS purchase order/contract.

Accepted: SELLER

Accepted: BUYER

Submitted: FLO-SERVICES, INC

Flo-Service, Inc.



By: _____

By: _____

By: John Krukowski

Date: _____

Date: _____

Date: 8-27-2021

NOTICE TO PROPERTY OWNER

If bills are not paid in full for the labor, services, equipment, or materials furnished or to be furnished, a mechanic's lien leading to the loss, through court foreclosure proceeding, of all or part of your property being so improved may be placed against the property even though you have paid your contractor in full. You may wish to protect yourself against this consequence by (1) requiring your contractor to furnish a signed release by the person or firm giving you this notice before making payment to your contractor or (2) any other method or device that is appropriate under the circumstances, such as a contractor's payment bond.

CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTOR'S STATE LICENSE BOARD which has jurisdiction to investigate complaints against contractors if a complaint regarding a patent act or omission is filed within four years of the date of the alleged violation. A complaint regarding a latent act or omission pertaining to structural defects must be filed within ten years of the date of the alleged violation. Any questions concerning a contractor may be referred to:

Registrar Contractor's State License Board
P.O. Box 26000
Sacramento, California 95826

CONTRACTORS STATE LICENSE BOARD
STATE OF CALIFORNIA
DEPARTMENT OF
CONSUMER AFFAIRS
CONTRACTORS - LICENSE NO. 988492



FL -SERVICES, INC.



3010 FLOYD ST *BURBANK, CA 91504-2599
TEL: (818) 847-2188 * FAX: (818) 847-2216
www.flo-servicesinc.com * LIC#988492

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ENGINEERING MATTERS

ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING HERITAGE SEWER LIFT STATION IMPROVEMENT PROJECT

Trabuco Canyon Water District (District) owns and operates the Heritage Sewer Lift Station (Heritage SLS) is located on Heritage Drive between Robinson Ranch Road and Silvertree Lane in the Trabuco Highlands Community (Exhibit 1). The Heritage SLS is a critical pump station that conveys pumped wastewater flows from a portion of the lower Dove Canyon community, Rancho Cielo community (from Via Allegre SLS), Walden Homes, Trabuco Marketplace, Dahlia Court community, and lower Robinson Ranch (from Plano Trabuco SLS) via a sewer force main. The facility also receives gravity sewer flows from the upper Robinson Ranch community and Trabuco Highlands community, and serves as the final pump station of the sanitary sewer system before the Robinson Ranch Wastewater Treatment Plant (WWTP).

For Fiscal Year 2020-2021, Heritage SLS is budgeted for a site and security upgrade project which includes a block wall, drainage repairs, paving and a new gate; however, during the design, staff re-evaluated the station due to ground subsidence around an existing manhole/sewer pipeline and operations request of the installation of a sewer by-pass valve assembly for emergency and maintenance work. Staff contracted DMc Engineering for the original site and security portion and JIG Consultants for the mechanical design. See Exhibit 2 for the 90% design plans.

FUNDING SOURCE:

General Fund.

FISCAL IMPACT:

\$420,000 (FY20-21 & FY21-22).

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption.

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting.

EXHIBIT(S):

1. Project Site Map
2. 90% Engineering Plans

CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN

HERITAGE SEWER LIFT STATION REPAIRS & IMPROVEMENTS

Trabuco Canyon Water District
September 1, 2021
E&O Committee






Project Location



Location Map

 Area of Work

Heritage Sewer Lift Station

Address: 21494 Plano Trabuco Road
Trabuco Canyon CA 92679

Existing Site



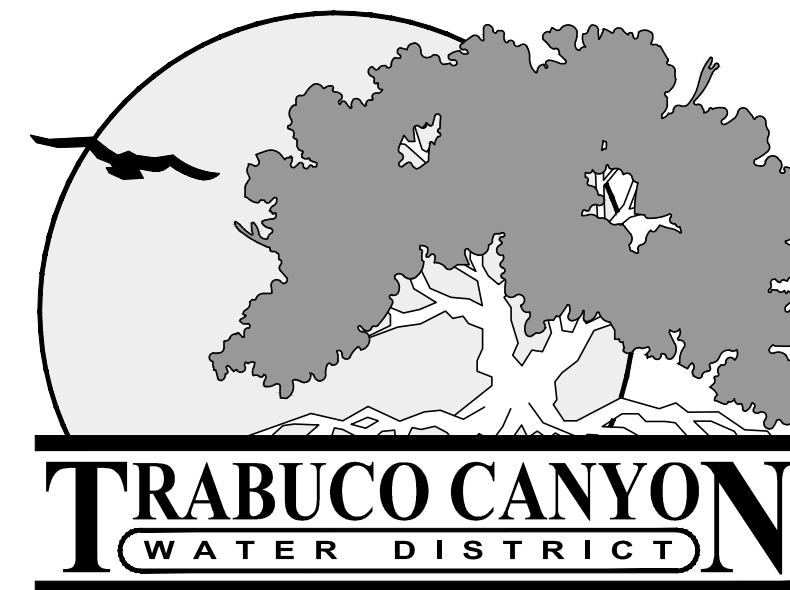
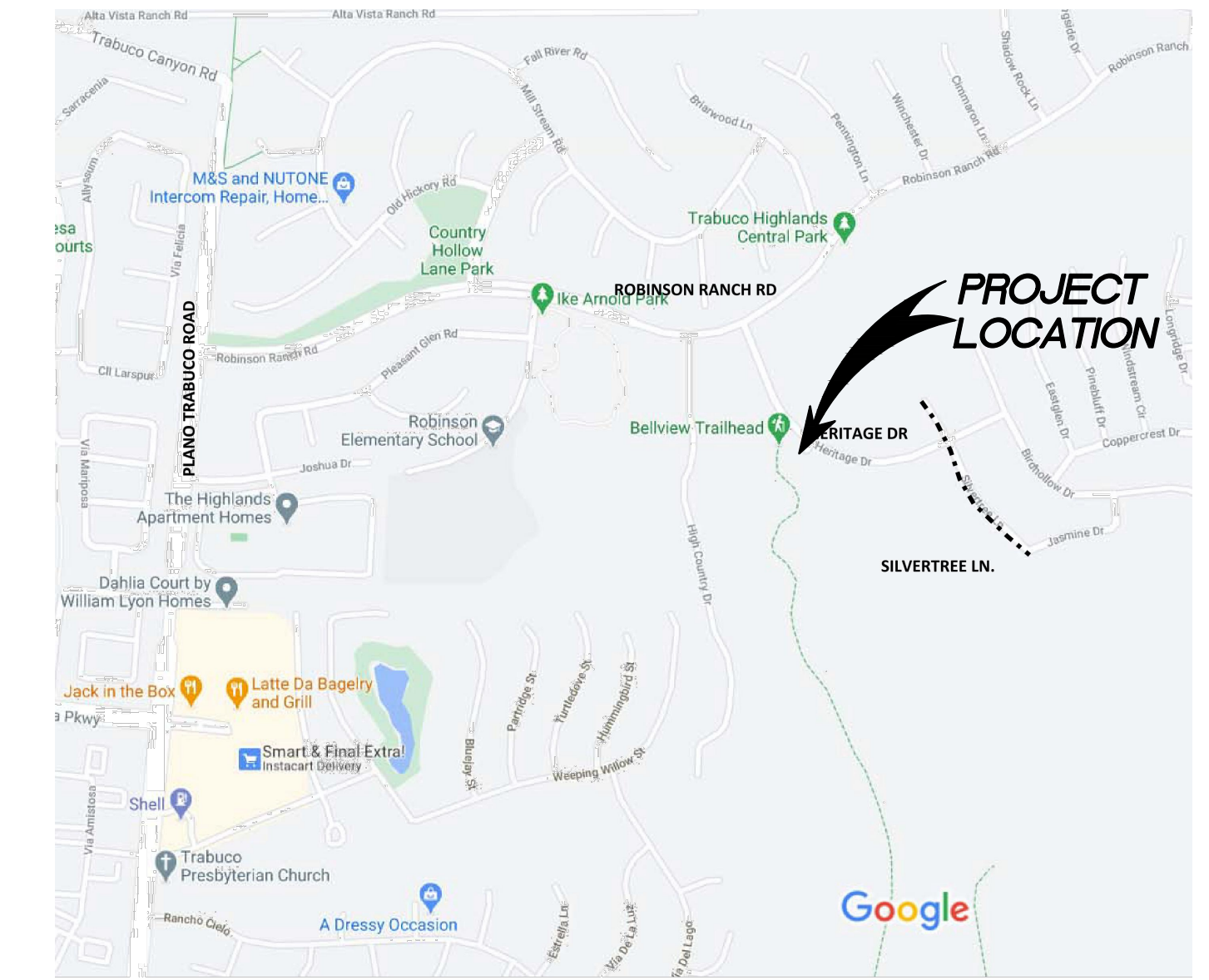
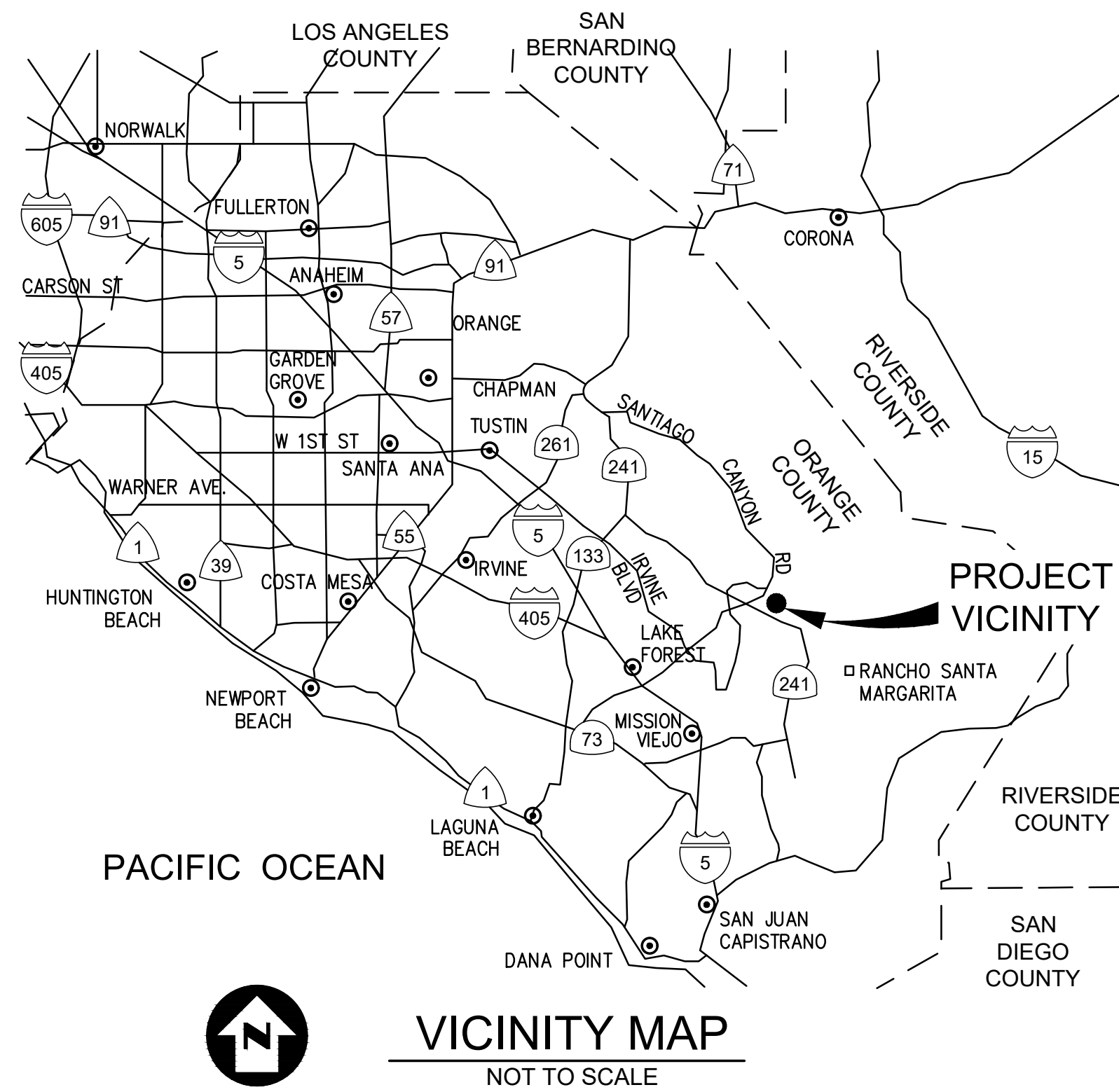
Sewer Pipeline Sag

Manhole and Valves Undermined



HERITAGE LIFT STATION SITE IMPROVEMENTS

PROJECT NO. 2122-009



AUGUST 2021

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	GENERAL NOTES AND LEGEND
3	DEMO PLAN
4	GRADING PLAN
5	UTILITY PLAN
6	WALL PLAN
7	DETAILS
8	DETAILS
9	SITE DEMOLITION PLAN AND MECHANICAL DRY PIT IMPROVEMENTS
10	PLAN & PROFILE OF 8-INCH INFLUENT SEWER
11	DIVERSION STRUCTURE AND BYPASS WET WELL PLAN AND SECTIONS
12	DIVERSION STRUCTURE AND BYPASS WET WELL REINFORCING LAYOUT
13	MISCELLANEOUS DETAILS

APPROVED: TRABUCO CANYON WATER DISTRICT	
FERNANDO PALUDI R.C.E. 55245 GENERAL MANAGER	DATE
LORRAINE S. LAUSTEN R.C.E. 67027 DISTRICT ENGINEER	DATE

DOMESTIC WATER NOTES:

- THE DOMESTIC WATER SYSTEM AS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH TRABUCO CANYON A "DESIGN CRITERIA AND STANDARD DRAWINGS FOR WATER AND SEWER FACILITIES", "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK), AS LAST REVISED. THE CONTRACTOR SHALL HAVE A COPY OF EACH OF THESE STANDARDS, AS WELL AS A COPY OF THE PROJECT PLANS AND SPECIFICATIONS, ON THE JOB SITE AT ALL TIMES.
- THE DISTRICT INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION AND ANY SUBSEQUENT REQUIRED INSPECTION. PHONE (949) 858-0277 TO ARRANGE FOR INSPECTION.
- A PRECONSTRUCTION CONFERENCE WITH REPRESENTATIVES FROM ALL AFFECTED AGENCIES AND THE CONTRACTOR SHALL BE HELD ON THE JOB SITE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL CITY AND/OR COUNTY PERMITS PRIOR TO THE START OF CONSTRUCTION.
- WATER MAINS SHALL BE STAKED FOR LINE AND GRADE OR SHALL BE INSTALLED SUBSEQUENT TO THE INSTALLATION OF THE CURBS BUT PRIOR TO PAVING OF THE STREETS. THE MINIMUM COVER OVER DOMESTIC WATER MAINS SHALL BE 42 INCHES BELOW PAVEMENT FINISHED GRADE.
- NO VALVE SHALL BE LOCATED WITHIN A GUTTER OR OTHER CONCRETE DRAINAGE DEVICE.
- ALL FIRE HYDRANT SHALL BE INSTALLED PER THE DISTRICT'S STANDARD DRAWINGS.
- ALL EXPOSED BURIED METAL APPURTENANCES IN CONTACT WITH THE SOIL OR WATER, INCLUDING PIPE, FLANGES, VALVES, COUPLINGS, ETC., SHALL BE GIVEN TWO (2) COATS OF DEWBRAP 142S PROTECTIVE COATING, OR EQUAL. WARNING TAPE SHALL BE USED ON ALL CONSTANT PRESSURE MAIN LINE PIPING CARRYING POTABLE WATER. TAPE SHALL BE A MINIMUM OF 6 INCHES WIDE AND SHALL RUN CONTINUOUSLY FOR THE ENTIRE LENGTH OF ALL CONSTANT PRESSURE MAIN LINE PIPING. THE TAPE SHALL BE LOCATED 12 INCHES DIRECTLY ABOVE THE TOP OF THE PIPE AND SHALL BE BLUE IN COLOR WITH THE WORDS "CAUTION: WATER LINE BELOW" IMPRINTED IN MINIMUM 1-INCH HIGH LETTERS, BLACK IN COLOR. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT.
- NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE DISTRICT.
- SHUT DOWN OF EXISTING WATERLINES TO FACILITATE CONNECTION TO EXISTING FACILITIES SHALL BE COORDINATED WITH THE DISTRICT INSPECTOR. NO CONNECTIONS TO THE DISTRICT'S EXISTING WATER SYSTEM SHALL BE MADE UNTIL THE NEW FACILITIES HAVE BEEN SUCCESSFULLY TESTED AND DISINFECTED. CONTRACTOR TO PERFORM ALL CHLORINATION/DECHLORINATION AND BACTERIOLOGICAL SAMPLING PER AWWA STANDARDS. ALL CONNECTIONS TO THE DISTRICT'S WATER SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DISTRICT INSPECTOR.
- WATER HOUSE CONNECTION LATERALS SHALL BE INSTALLED BEHIND THE CURB PRIOR TO PAVING OF THE STREET. THE SERVICES SHALL BE EXTENDED TO THEIR FINAL LOCATION BY THE DEVELOPER AT A TIME PRIOR TO PRESSURE TESTING OF THE WATER SYSTEM. SEE TCWD STD DRAWING W/1 FOR ADDITIONAL INFORMATION.
- ALL WATER SERVICES SHALL BE INSTALLED WITH A 5-FOOT HORIZONTAL SEPARATION FROM ANY SEWER LATERAL AND IN ACCORDANCE WITH THE DISTRICT'S REVISED STANDARD DRAWINGS.
- ALL WATER SERVICES SUPPLIED WITH PRESSURE HIGHER THAN 80 PSI SHALL BE PROVIDED WITH APPROVED PRESSURE REGULATORS SET AT THE MAXIMUM ALLOWABLE CODE PRESSURE.
- METER BOXES SHALL BE INSTALLED DIRECTLY BEHIND THE CURB WHETHER THE SIDEWALK IS DIRECTLY BEHIND THE CURB OR NOT. METER BOXES INSTALLED BEHIND ROLLED CURB OR WITHIN DRIVEWAYS SHALL HAVE TRAFFIC LIDS.
- ALL BURIED BOLTS, ANCHOR BOLTS AND NUTS SHALL BE TYPE 316 STAINLESS STEEL AND SHALL BE COATED WITH ANTI-SEIZE COMPOUND NSF 60/61 OR APPROVED EQUAL.
- THE CONTRACTOR SHALL RAISE ALL VALVE BOXES TO THE FINISHED PAVEMENT GRADE WITHIN 2 DAYS OF COMPLETION OF THE PAVEMENT. IF THE SURFACE COURSE OF PAVEMENT IS NOT COMPLETED WITHIN A REASONABLE AMOUNT OF TIME AFTER THE BASE COURSE OF PAVEMENT IS COMPLETED, THE DEVELOPER SHALL RAISE THE VALVE BOXES TO THE FINISHED GRADE OF THE BASE COURSE SO THAT THE DISTRICT MAY OPERATE THE VALVES. THE DEVELOPER SHALL THEN RAISE ALL VALVE BOXES TO FINAL FINISHED GRADE OF THE PAVEMENT UPON COMPLETION OF THE SURFACE COURSE OF PAVEMENT. THE REQUIRED RAISING OF VALVE BOXES TO FINISHED GRADE OF THE BASE COURSE OF PAVEMENT WILL BE DETERMINED AND SPECIFIED BY THE DISTRICT.
- BACKFLOW PREVENTERS APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL ARE THE ONLY BACKFLOW PREVENTION DEVICES ACCEPTABLE FOR USE IN THE DISTRICT. THE DISTRICT'S CROSS CONNECTION INSPECTOR SHALL BE NOTIFIED PRIOR TO INSTALLATION OF BACKFLOW DEVICE AT (949) 858-0277.
- IRRIGATION SYSTEM MUST COMPLY WITH THE DISTRICT'S RULES AND REGULATIONS FOR NONDOMESTIC WATER SERVICE.
- ALL WATER SYSTEM INFRASTRUCTURE SHALL BE SUITABLE FOR POTABLE WATER SYSTEMS AND SHALL MEET NSF 60/61 STANDARDS AND CALIFORNIA NO LEAD STANDARDS.
- WATER LINES, LATERALS, AND APPURTENANCES SHALL BE INSTALLED WITH GPS LOCATION WITH 1' ACCURACY. ELECTRONIC FILE, IN AUTOCAD FORMAT, SHALL BE SUBMITTED TO THE DISTRICT PRIOR TO PAVING THE STREETS.
- TRACER WIRE: COPPER TRACER WIRE SHALL BE INSTALLED AND SECURED TO THE TOP OF ALL PVC PIPE AS IT IS BEING LAID. TRACER WIRE SHALL BE STUBBED UP AT EACH VALVE (BROUGHT INTO VALVE BOX), TO EACH SERVICE (GROUNDED TO CORPORATION STOP), TO ALL APPURTENANCES AND TO ALL HYDRANTS (COILED AROUND BARREL JUST BELOW THE TOP FLANGE WITH 16 INCHES EXCESS). TRACER WIRE SHALL BE SECURED TO THE TOP OF THE PIPE, AT A MINIMUM OF 10-FOOT INTERVALS, WITH PLASTIC ADHESIVE TAPE. THE COPPER WIRE SHALL BE #12 Cu. WITH HMWPE INSULATION. THE WIRE SHALL BE ELECTRONICALLY CONTINUOUS THROUGH THE ENTIRE PIPING SYSTEM. ALL SPLICES OF THE WIRE SHALL BE MADE SECURELY AND COVERED THOROUGHLY WITH A DIRECT BURY SPLICE KIT, 3M DBY/DBR OR APPROVED EQUAL. THE CONTRACTOR SHALL SCHEDULE A CONDUCTIVITY TEST (CONDUCTED BY THE CITY) ON COMPLETION OF THE WATER MAIN INSTALLATION AND PRIOR TO FINAL PAVEMENT CONSTRUCTION. IF THE CONDUCTIVITY TEST FAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY REPAIRS, UNTIL PASSING RESULTS ARE ACHIEVED. ADDITIONAL COMPENSATION WILL NOT BE ALLOWED THEREFORE.

ABBREVIATIONS

AB	AGGREGATE BASE	NTS	NOT TO SCALE
AC	ASPHALT CONCRETE	OC	ORANGE COUNTY
APPROX.	APPROXIMATE	OCFA	ORANGE COUNTY FIRE AUTHORITY
AV	AIR VAC	PCC	POINT OF COMPOUND CURVE
AWWA	AMERICAN WATER WORKS ASSOCIATION	PRC	POINT OF REVERSE CURVE
BFP	BACKFLOW PREVENTER	PRS	PRESSURE REDUCING STATION
BFV	BUTTERFLY VALVE	PRV	PRESSURE REDUCING VALVE
BO	BLOWOFF ASSEMBLY	P (PL)	PROPERTY LINE
BVC	BEGIN VERTICAL CURVE	PP	POWER POLE
CL	CLASS	PF & RD	PUBLIC FACILITIES AND RESOURCES DEPARTMENT
CMP	CORRUGATED METAL PIPE	PO	PUSH ON
CONT	CONTINUOUS	PT	POINT
CTR	CENTER	PUE	PUBLIC UTILITY EASEMENT
C (CL)	CENTERLINE	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	PVMT	PAVEMENT
DIP	DUCTILE IRON PIPE	R (RAD)	RADIUS
DWG	DRAWING	RT	RIGHT
E	EAST	RW	RECLAIMED WATER
EC	END CURVE	R/W	RIGHT-OF-WAY
ECR	END CURVE RETURN	R/W	RESILIENT WEDGE
EL	ELEVATION	RGV	GATE VALVE
ELEC	ELECTRIC	S	SOUTH, SLOPE OR GRADIENT OF PIPELINE
EP	EDGE OF PAVEMENT	SD	STORM DRAIN
EVC	END VERTICAL CURVE	SHT	SHEET
EXIST (EX.)	EXISTING	ST	STREET
FE	FLANGE END	STA	STATION
FH	FIRE HYDRANT	STD	STANDARD
FLG	FLANGE	STL	STEEL
FT	FOOT, FEET	TCWD	TRABUCO CANYON WATER DISTRICT
FG	FINISHED GRADE	TEL	TELEPHONE
FS	FINISHED SURFACE	Typ	TYPICAL
GB	GRADE BREAK	VCP	VITRIFIED CLAY PIPE
GV	GATE VALVE	VERT	VERTICAL
LT	LEFT	W	WEST
MH	MANHOLE	WL	WATER LINE
MIN	MINIMUM	WM	WATER METER
N	MECHANICAL JOINT		
MJ	NORTH		

SYMBOLS

- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING SURVEY MONUMENT
- EXISTING FIRE HYDRANT
- EXISTING SEWER MANHOLE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

LEGEND

LINE TYPES

- PROPERTY LINE
- CENTERLINE
- EXIST. WATER LINE
- EXIST. COMMUNICATION LINE
- EXIST. ELECTRIC LINE
- EXIST. SEWER LINE
- EXIST. ELECTRIC LINE
- EXIST. RECYCLED WATER LINE

21505 HOUSE ADDRESS NUMBER

ADDITIONAL NOTES:

ALL BENDS 11 1/4" OR GREATER, TEES AND CROSSES SHALL BE EPOXY LINED DUCTILE IRON (CLASS 350) WITH PUSH-ON JOINTS AND THRUST BLOCK PER TCWD STANDARD DWG. NO. W12 UNLESS OTHERWISE NOTED ON PLANS.
DO NOT EXCEED 80% OF MANUFACTURER'S RECOMMENDED DEFLECTION REQUIREMENTS FOR PIPE INSTALLATION.

BASIS OF BEARING:

THE BASIS OF BEARING IS ALONG THE CENTERLINE OF SILVERTREE, BEING N25°00'00"W, PER TRACT 13473.

BENCH MARK:

ORANGE COUNTY BM 3PP-28-89

DESCRIBED BY OCS 2003 - FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3PP-28-89", SET IN THE SOUTHWESTERLY CORNER OF A 3 FT. BY 30 FT. DOUBLE CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHWESTERLY CORNER OF THE INTERSECTION OF SANTA MARGARITA PARKWAY AND PLANO TRABUCO, 45 FT. WESTERLY OF THE CENTERLINE OF PLANO TRABUCO AND 75FT. NORTHERLY OF THE CENTERLINE OF SANTA MARGARITA. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

ELEV. = 1155.201 FT. (NAV888)

SITE UTILITIES:

- | | |
|-------------|-----------------------------|
| ELECTRICITY | SOUTHERN CALIFORNIA EDISON |
| GAS | SOUTHERN CALIFORNIA GAS CO. |
| CABLE TV | COX CABLE SERVICES |
| TELEPHONE | AT&T |

SITE DEMOLITION NOTES

- 1 SAW CUT EXISTING AC PAVEMENT
- 2 REMOVE EXISTING AC PAVEMENT, BASE AND SUBGRADE TO ACCOMMODATE PROPOSED SITE IMPROVEMENTS
- 3 REMOVE EXISTING TREE AND GRIND DOWN STUMP
- 4 CLEAR AND GRUB
- 5 REMOVE EXISTING BOLLARD AND FOUNDATION
- 6 REMOVE AND SALVAGE EXISTING GATE AND RETURN TCWD YARD. REMOVE FOUNDATION FOR GATE POST
- 7 REMOVE EXISTING SIGN AND FOUNDATION
- 8 REMOVE EXISTING FENCE, FENCE POST AND FENCE POST FOUNDATIONS
- 9 REMOVE AND SALVAGE EXISTING TCWD SIGN FOR REINSTALLATION
- 10 REMOVE AND SALVAGE EXISTING GATE, EXISTING KEY PAD AND, EXISTING MOTOR FOR REINSTALLATION
- 11 REMOVE EXISTING GATE SENSORS AND SAFE OFF AS REQUIRED FOR RECONNECTION

SITE CONSTRUCTION NOTES

- 20 GRADE SITE AS REQUIRED TO ACCOMMODATE PROPOSED SITE IMPROVEMENTS
- 21 OVEREXCAVATE AND/OR REMOVE AND RECOMPACT SITE AS REQUIRED BY THE DISTRICT'S GEOTECHNICAL ENGINEER
- 22 CONSTRUCT 4" AC OVER 8" AB
- 23 CONSTRUCT REDWOOD HEADER PER DETAIL ON SHEET 3
- 24 CONSTRUCT CONCRETE V GUTTER PER DETAIL ON SHEET 4
- 25 CONSTRUCT CONCRETE RIBBON GUTTER PER DETAIL ON SHEET 3
- 26 CONSTRUCT BLOCK WALL PER DETAIL ON SHEET 4
- 27 CONSTRUCT OPENING IN WALL FOR CONCRETE RIBBON GUTTER
- 28 CONSTRUCT NEW TRACK ROLLING ENTRY GATE AND REINSTALL MOTOR AND KEY PAD
- 29 CONSTRUCT ENTRY GATE. PROVIDE TCWD WITH SHOP DRAWING OF GATE FOR REVIEW AND APPROVAL IN ADVANCE OF PURCHASING GATE TO MATCH PREVIOUS GATE AND/OR OTHER TCWD DISTRICT YARD GATES
- 30 CONNECT TO EXISTING V DITCH PER DETAIL SHEET 4
- 31 CONSTRUCT BLOCK WALL PER DETAIL SHEET 4

SITE UTILITY NOTES

- 40 REMOVE EXISTING FORCE MAIN, VALVE AND BY PASS AS REQUIRED TO ACCOMMODATE NEW FORCE MAIN AND BY PASS
- 41 REMOVE EXISTING SEWER LINE AS REQUIRED TO ACCOMMODATE NEW SEWER LINE PER SHEET 9
- 42 REMOVE EXISTING SEWER LINE AND SEWER LINE BY PASS LINES INCLUDING VALVES AND ELECTRICAL CONTRACTOR TO SAFE OFF ELECTRICAL PER SHEET 9
- 43 REMOVE EXISTING SEWER BY PASS TANK PER SHEET 9
- 44 PROVIDE TEMPORARY SEWER BY PASS PUMP AS REQUIRED TO ACCOMMODATE THE UTILITY WORK IDENTIFIED HEREIN
- 45 RECONSTRUCT 8" PVC SEWER LINE PER SHEET 10
- 46 CONNECT NEW 8" PVC SEWER LINE TO EXISTING WET WELL INCOMING LINE PER SHEET 10
- 47 ADJUST VALVE CAN AND COVER TO GRADE
- 48 RECONSTRUCT SEWER FORCE MAIN WITH BYPASS CONNECTION PER DETAIL ON SHEET 3
- 49 CONSTRUCT BACK FLOW PER DETAIL SHEET 3
- 50 INSTALL GATE SENSORS
- 51 RECONNECT POWER TO NEW GATE ENTRY PAD AND MOTOR

SITE KEY NOTES

- 40 PROTECT ITEM AS NOTED IN PLACE

Plotted: Aug 24, 2021 - 2:59pm by: amc@dmce.com Drawing Name: U:\0081728-42 Heritage Drive Lift Station\Drawings\728-42 Heritage Lift Station SITE IMPROVEMENTS.dwg

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: D.L.M.
REVIEWED BY: D.J.M.

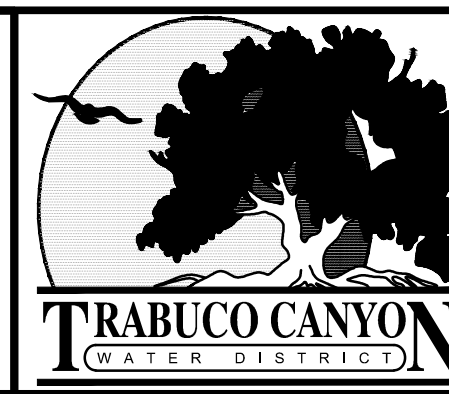
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APPROVED
TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027
DISTRICT ENGINEER

DATE



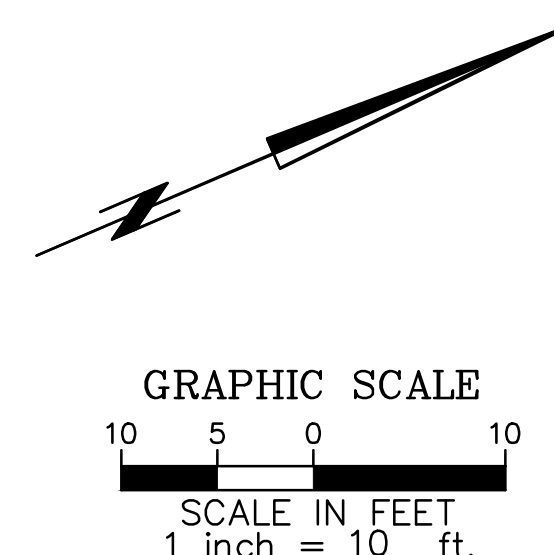
TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENT

GENERAL NOTES, LEGEND, ABBREVIATIONS, NOTES, BENCH MARK
BASIS OF BEARINGS

SHEET
2

SITE DEMOLITION NOTES

- ① SAW CUT EXISTING AC PAVEMENT
- ② REMOVE EXISTING AC PAVEMENT, BASE AND SUBGRADE TO ACCOMMODATE PROPOSED SITE IMPROVEMENTS
- ③ REMOVE EXISTING TREE AND GRIND DOWN STUMP
- ④ CLEAR AND GRUB
- ⑤ REMOVE EXISTING BOLLARD AND FOUNDATION
- ⑥ REMOVE AND SALVAGE EXISTING GATE AND RETURN TCWD YARD. REMOVE FOUNDATION FOR GATE POST
- ⑦ REMOVE EXISTING SIGN AND FOUNDATION
- ⑧ REMOVE EXISTING FENCE, FENCE POST AND FENCE POST FOUNDATIONS
- ⑨ REMOVE AND SALVAGE EXISTING TCWD SIGN FOR REINSTALLATION
- ⑩ REMOVE AND SALVAGE EXISTING GATE, EXISTING KEY PAD AND, EXISTING MOTOR FOR REINSTALLATION
- ⑪ REMOVE EXISTING GATE SENSORS AND SAFE OFF AS REQUIRED FOR RECONNECTION



Plotter: Aug 24, 2021 - 3:00pm by: draught Drawing Name: U:\0881728-42 Heritage Drive Lift Station\Drawings\728-42 HERITAGE LIFT STATION SITE IMPROVEMENTS DDMO SHEET.dwg

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TWO WORKING DAYS BEFORE YOU DIG

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

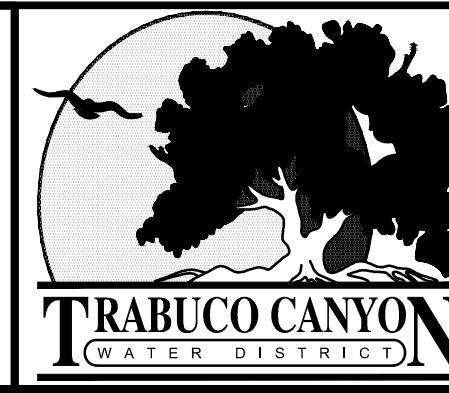
DESIGN BY: D.L.M.
REVIEWED BY: D.J.M.

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DISTRICT ENGINEER

DATE



TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENT

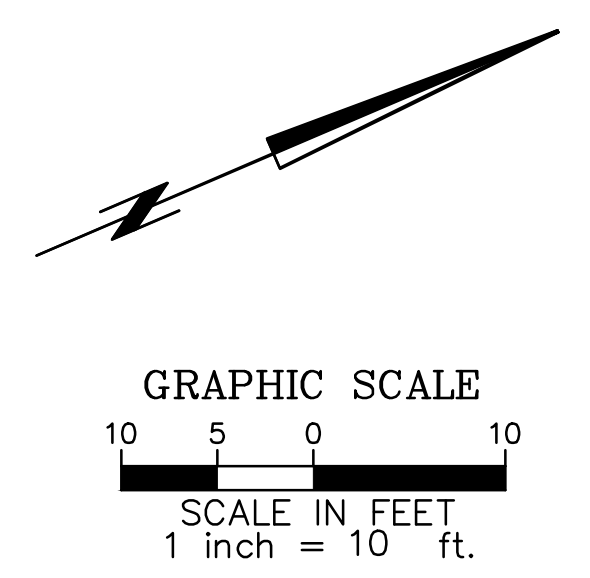
DEMO PLAN

SHEET
3
OF 13 SHEETS
DMc JN: 728-42

HERITAGE LIFT STATION SITE IMPROVEMENT

SITE UTILITY NOTES

- 40 REMOVE EXISTING FORCE MAIN, VALVE AND BY PASS AS REQUIRED TO ACCOMMODATE NEW FORCE MAIN AND BY PASS
- 41 REMOVE EXISTING SEWER LINE AS REQUIRED TO ACCOMMODATE NEW SEWER LINE PER SHEET 9
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- 49 CONSTRUCT BACK FLOW PER DETAIL SHEET 3
- 50 INSTALL GATE SENSORS
- 51 RECONNECT POWER TO NEW GATE ENTRY PAD AND MOTOR



Plotted: Aug 24, 2021 - 3:00pm by: amg@mcg.com Drawing Name: U:\0081\728-42 Heritage Drive Lift Station\Drawings\728-42 HERITAGE LIFT STATION SITE IMPROVEMENTS UTILITY SHEET.dwg

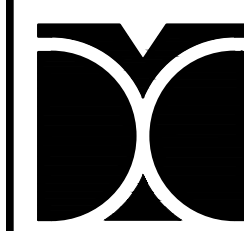
CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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REVIEWED BY: D.J.M.

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TRABUCO CANYON WATER DISTRICT
 LORRAINE S. LAUSTEN, P.E. RCE #67027 DATE
 DISTRICT ENGINEER



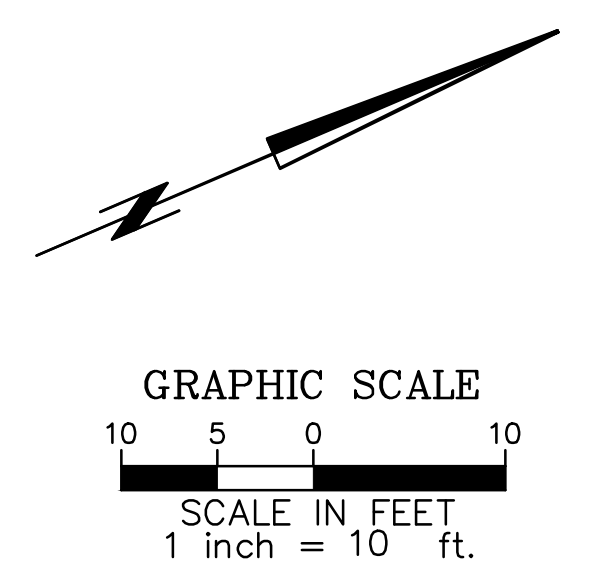
TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENT
 UTILITY PLAN

SHEET
5
 OF 13 SHEETS
 DMC JN: 728-42

SITE CONSTRUCTION NOTES

31 CONSTRUCT BLOCK WALL PER DETAIL SHEET 4

NEW AC TO BE CONSTRUCTED



Plotter: Aug 24, 2021 1:30pm by: draught Drawing: D:\Projects\728-42 Heritage Drive Lift Station\Drawings\728-42 HERITAGE LIFT STATION SITE IMPROVEMENTS WALL GRADING SHEET.dwg

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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DISTRICT ENGINEER

DATE

TRABUCO CANYON
WATER DISTRICT

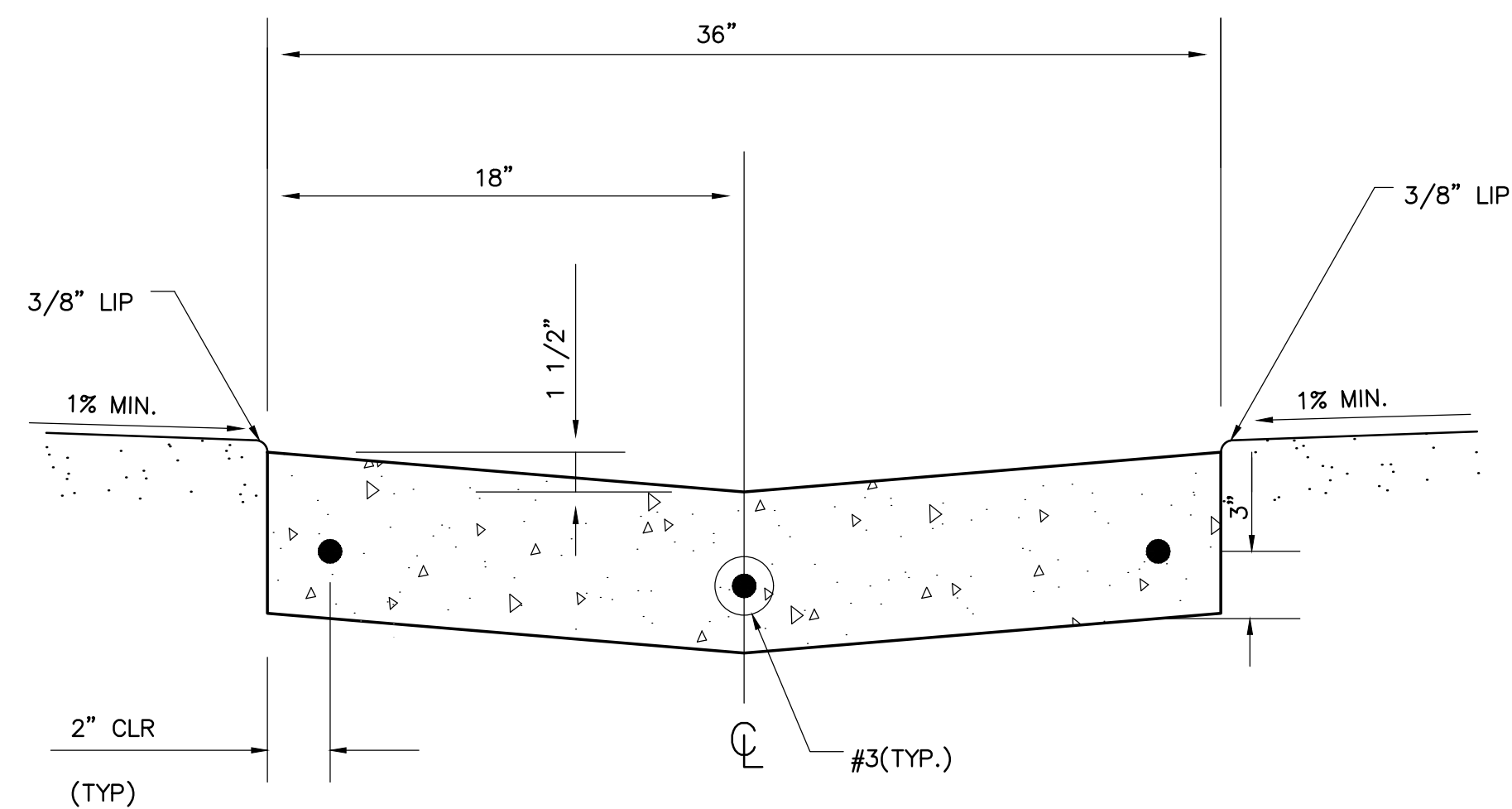
TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENT

WALL GRADING PLAN

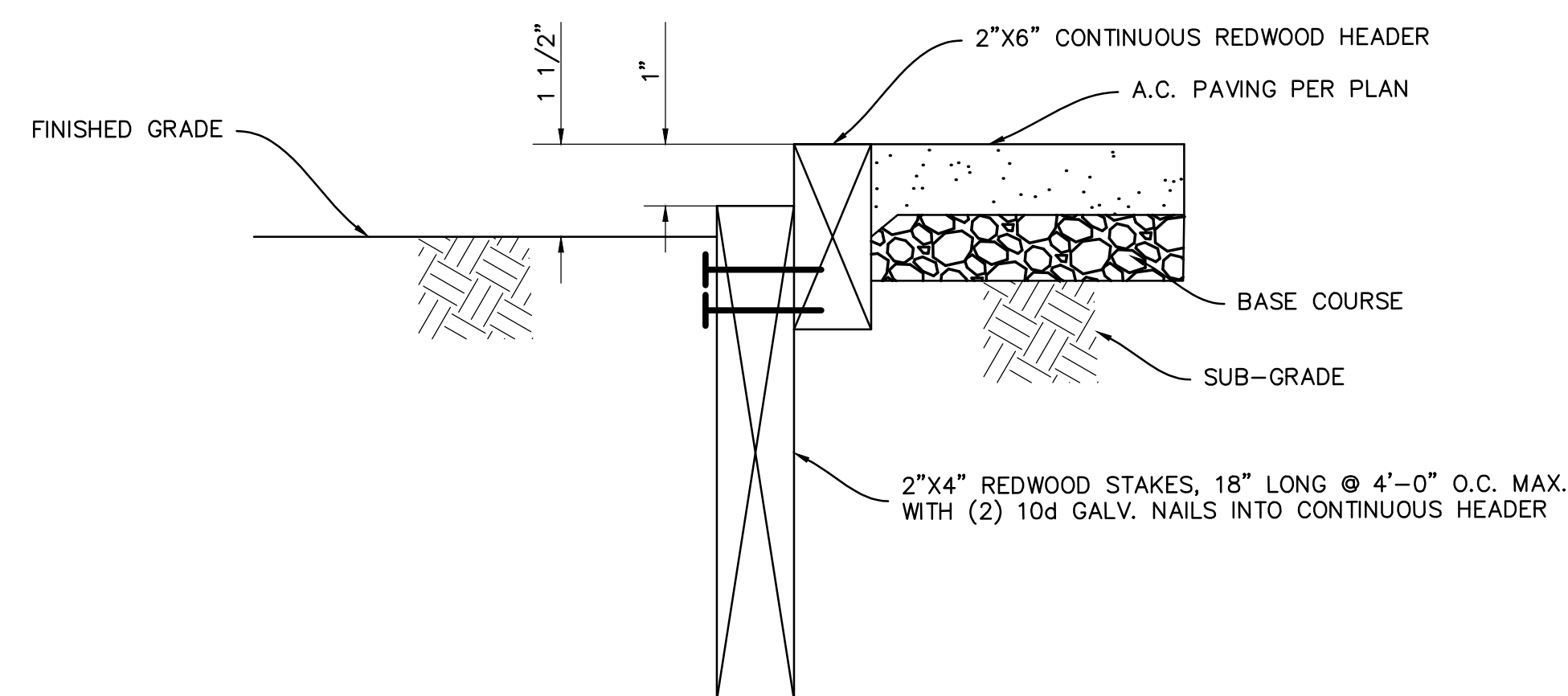
SHEET
6
OF 13 SHEETS

HERITAGE LIFT STATION SITE IMPROVEMENT

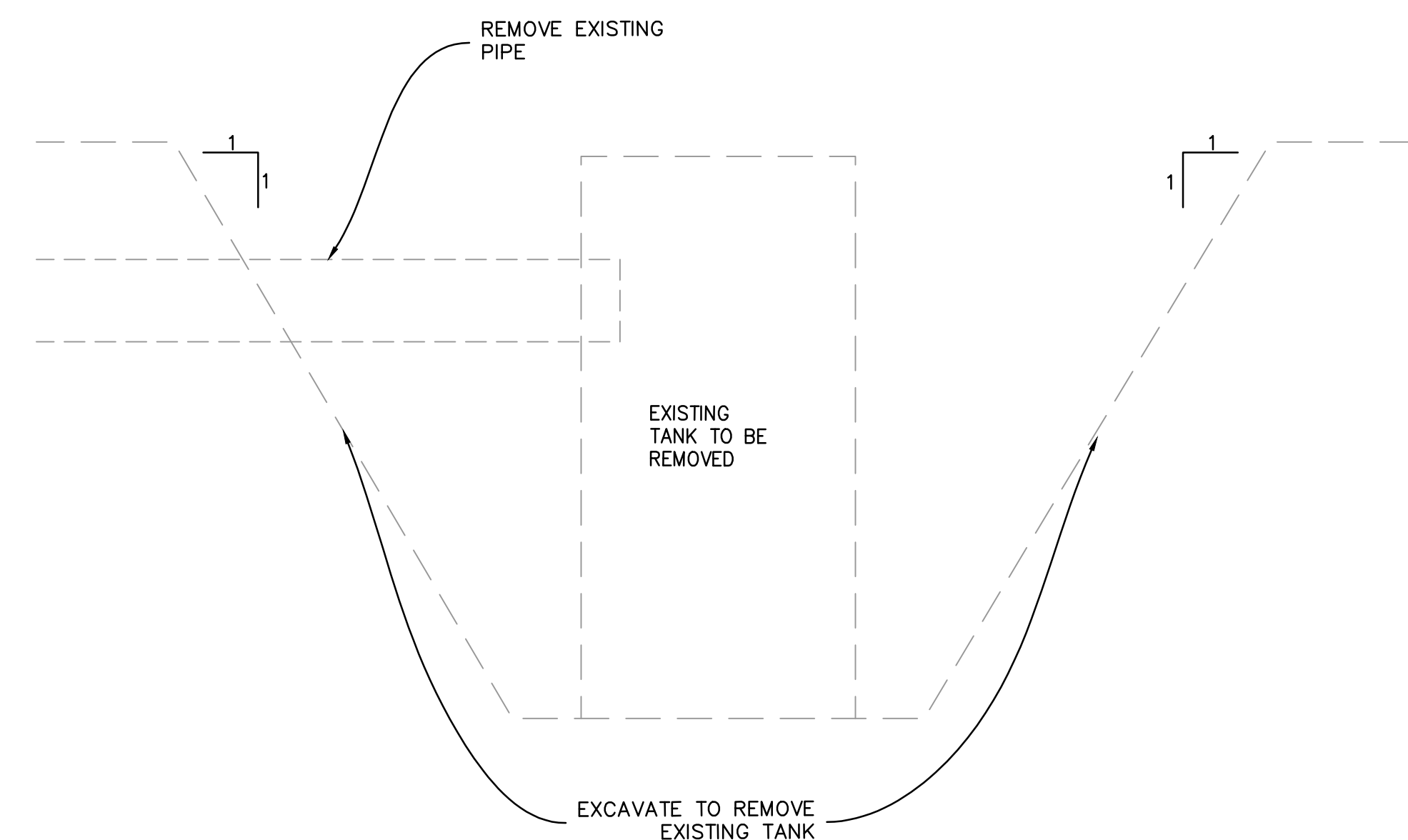
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DMc JN: 728-42



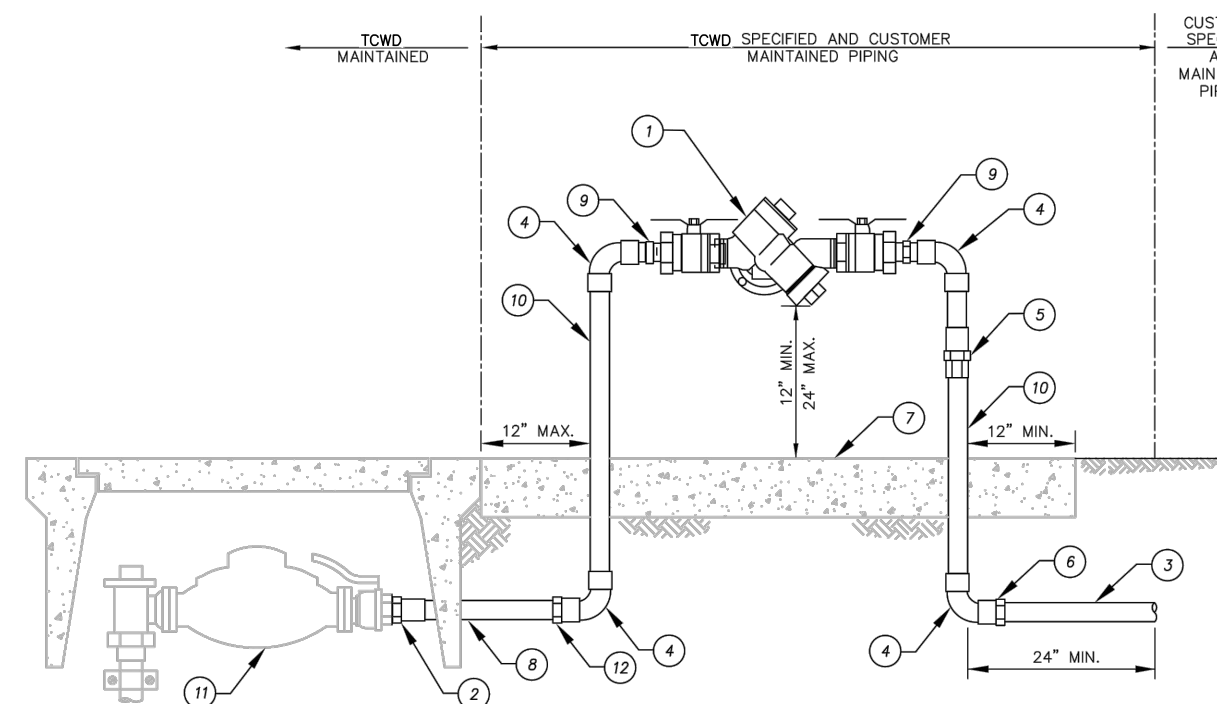
RIBBON GUTTER DETAIL
NTA



REDWOOD HEADER DETAIL
NTA



SEWER BYPASS TANK REMOVAL DETAIL
NTA



BACKFLOW DETAIL
NTA

- MATERIALS**
- 1 - 3/4" THROUGH 2" REDUCED PRESSURE BACKFLOW PREVENTOR WITH BALL VALVES
 - 2 - PVC ADAPTER, M.P.T. X F.I.P.T.
 - 3 - COPPER WATER TUBE, TYPE "K" OR BRASS OR SCH 40 PVC
 - 4 - COPPER OR BRASS 90 DEGREE BEND WITH COPPER SOLDER JOINTS
 - 5 - COPPER OR BRASS UNION WITH COPPER SOLDER OR THREADED JOINTS
 - 6 - BRASS OR COPPER TO PVC ADAPTER
 - 7 - 18" WIDE X 4" THICK CONCRETE PAD, LENGTH VARIES PER ASSEMBLY SIZE
 - 8 - SCH 40 PVC PIPE
 - 9 - BRASS OR COPPER NIPPLE
 - 10 - COPPER WATER TUBE, TYPE "K" OR BRASS
 - 11 - 1" OR 2" SERVICE PER TOWN STD. DWG. W-1a, W-1b, W-3a, W-3b, W-3c AND W-3d
 - 12 - PVC TO BRASS OR COPPER ADAPTER
- NOTES:**
1. PROVIDE AN USC APPROVED BACKFLOW PREVENTION ASSEMBLY.
 2. TOWN MAINTENANCE RESPONSIBILITY STOPS AT THE METER. THE CUSTOMER IS RESPONSIBLE TO TEST AND MAINTAIN THE BACKFLOW PREVENTION ASSEMBLY. CERTIFICATION SHALL BE DELIVERED TO TOWN.
 3. BACKFLOW CERTIFICATION TESTING IS REQUIRED ANNUALLY AT A MINIMUM BUT MAY BE MORE FREQUENT AS DETERMINED NECESSARY BY TOWN. CERTIFICATION TESTING IS REQUIRED IMMEDIATELY AFTER ANY ASSEMBLY IS RELOCATED, REPLACED, AND REPAIRED.
 4. BACKFLOW PREVENTION ASSEMBLY SIZE SHALL MATCH THE DIAMETER OF THE METER IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE, CHAPTER 6, SECTION 610 AS AMENDED, OR UP TO 1" LARGER.
 5. BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS INCLUDING ALL APPURTENANCES FOR THE SUPPLY OF DOMESTIC WATER SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA LEAD-FREE ACT 415903.
 6. BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE WATER METER BOX BUT NOT FURTHER THAN 12" UNLESS A VARIANCE IS OBTAINED FROM TOWN PRIOR TO INSTALLATION.
 7. NO OUTLETS, TEES, OR CONNECTIONS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
 8. BACKFLOW PREVENTION ASSEMBLIES SHALL MAINTAIN A VERTICAL CLEARANCE FROM THE LOWEST POINT OF 12" (MIN.) TO 24" (MAX.) ABOVE FINISHED GRADE, WITH SIDE AND TOP CLEARANCES OF 12" (MIN.) FOR ANY OBSTRUCTIONS IN ALL DIRECTIONS.
 9. PRIVATE INSTALLATIONS OF THE SAME TYPE OF BACKFLOW PREVENTION ASSEMBLIES ARE RECOMMENDED FOR ALL FACILITIES REQUIRING UNINTERRUPTED WATER SUPPLY SUCH AS HOSPITALS AND SCHOOLS.
 10. THEFT PREVENTION DEVICES ARE RECOMMENDED FOR BRASS ASSEMBLIES ALLOWING ADEQUATE ACCESS TO THE ASSEMBLY FOR TESTING, MAINTENANCE, AND PROPER DRAINAGE.

Plotted: Aug 24, 2021 - 3:01pm by: amg@dmcc.com
 Drawing Name: U:\0881728-42 Heritage Lift Station\Drawings\728-42 Heritage Lift Station Site Improvements.dwg
 Heritage Lift Station Site Improvement

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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DESIGN BY: D.L.M.
REVIEWED BY: D.J.M.

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TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027

DISTRICT ENGINEER

DATE



TRABUCO CANYON WATER DISTRICT

HERITAGE LIFT STATION SITE IMPROVEMENT

DETAILS

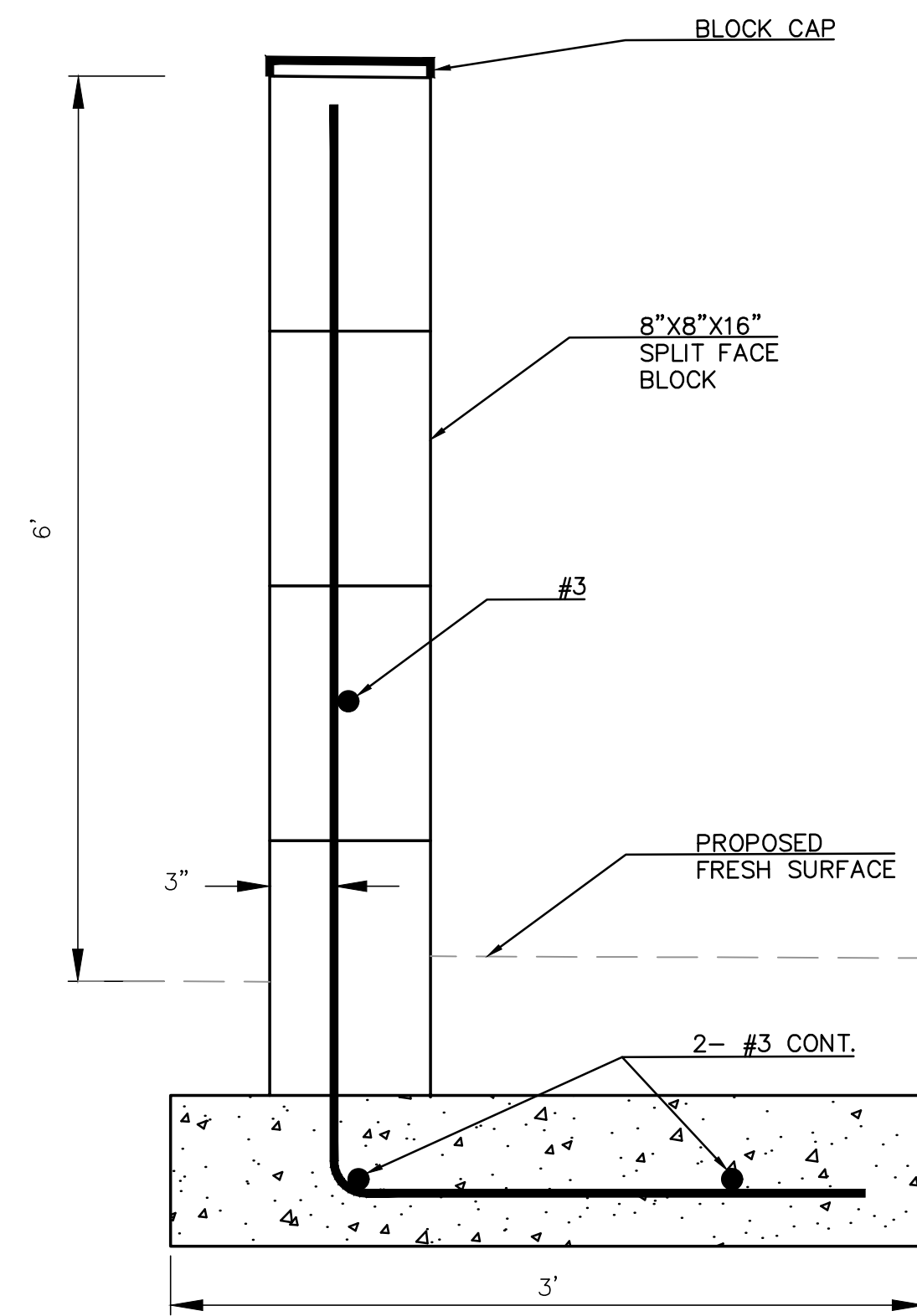
SHEET

7

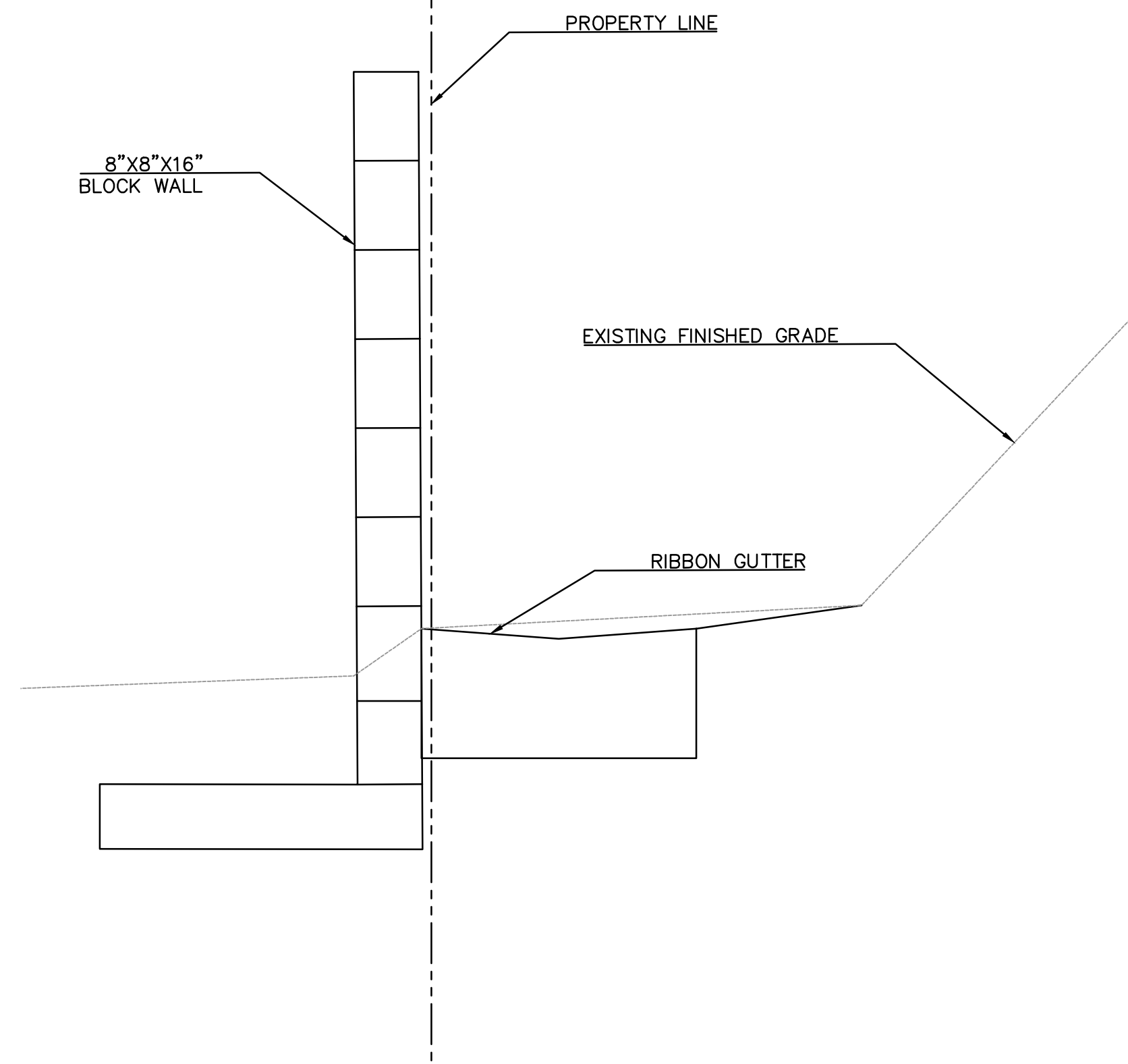
OF 13 SHEETS

DMC IN: 728-42

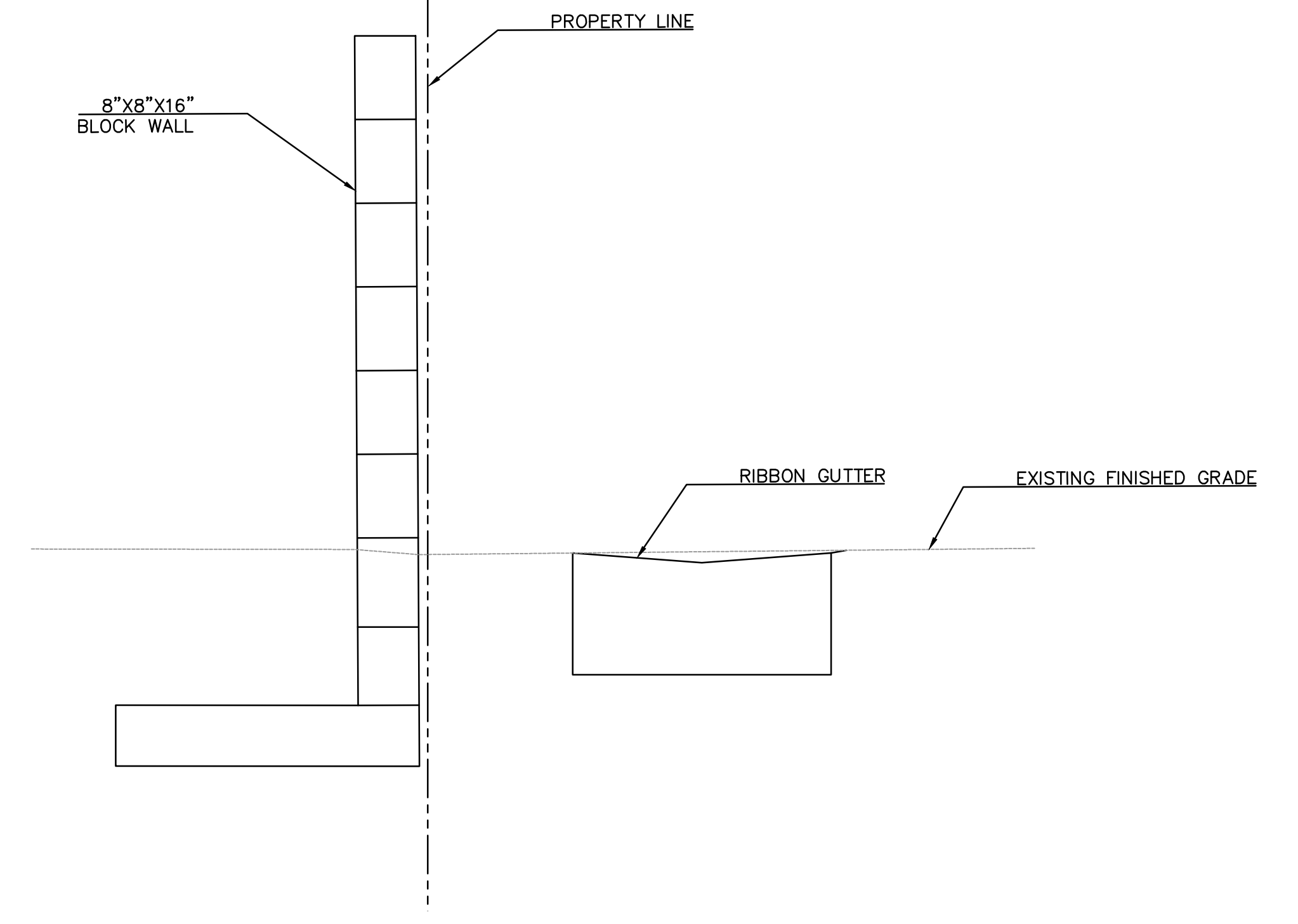
HERITAGE LIFT STATION SITE IMPROVEMENT



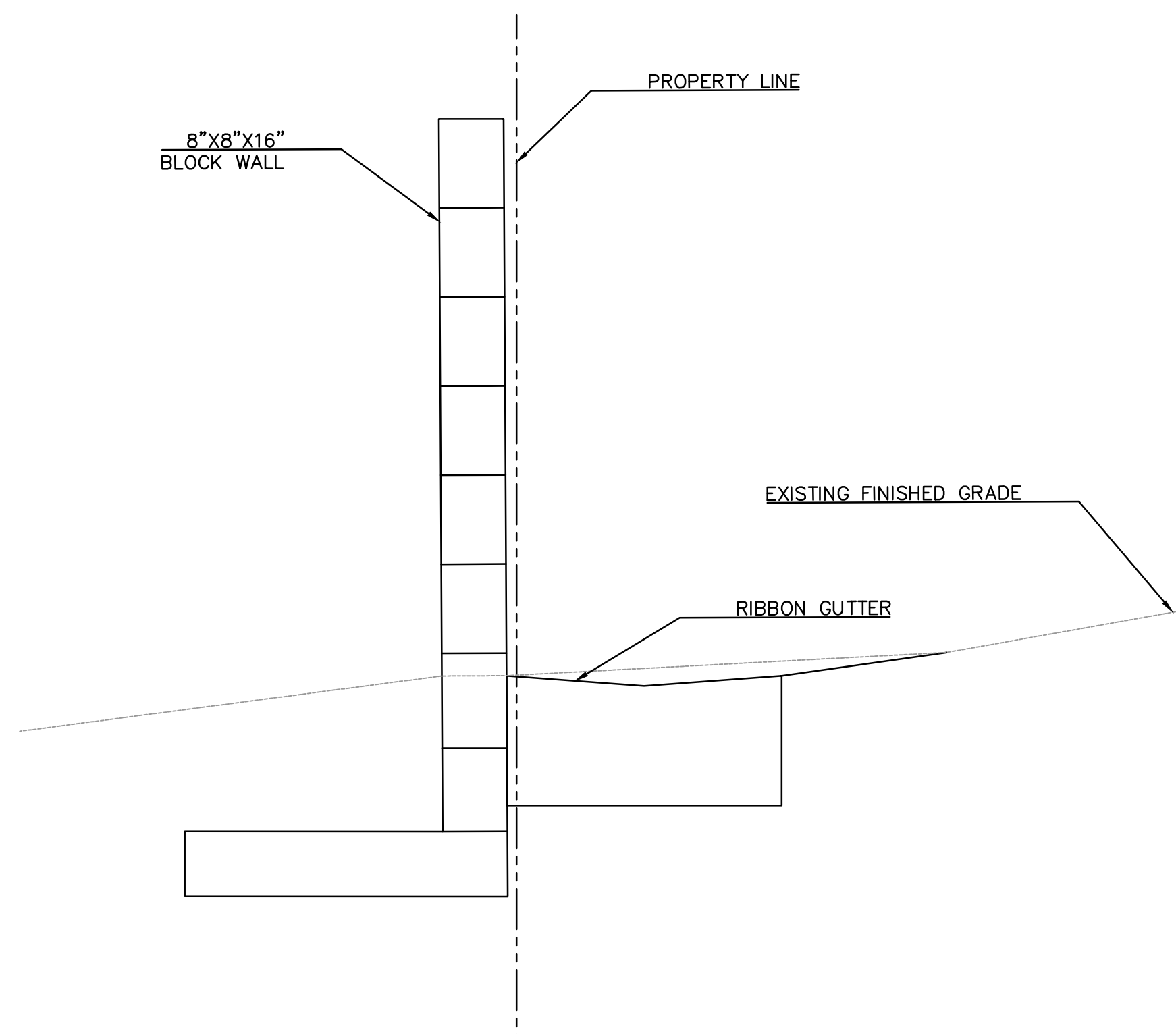
BLOCK WALL DETAIL
NTA



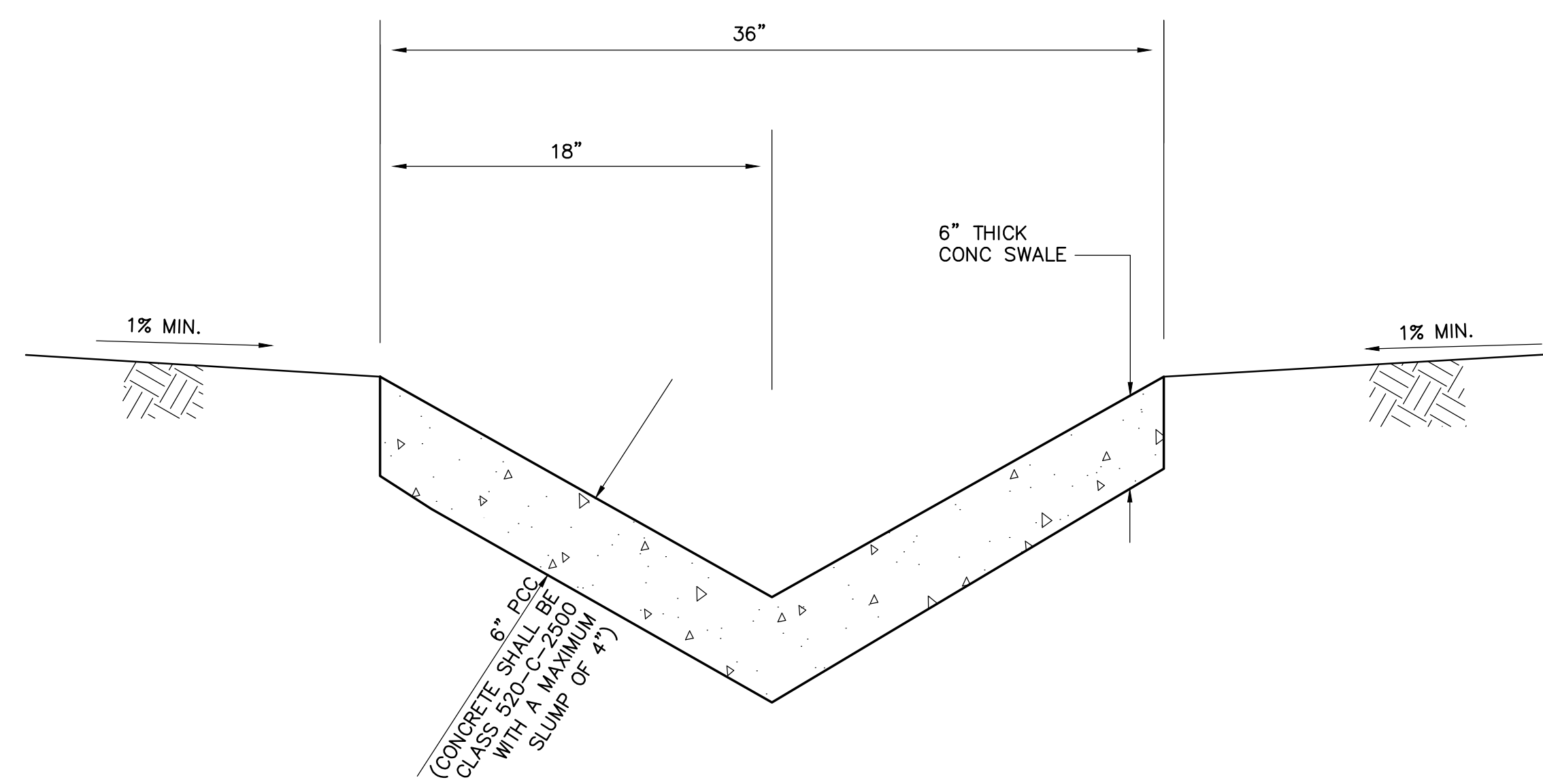
SECTION A-A
NTA



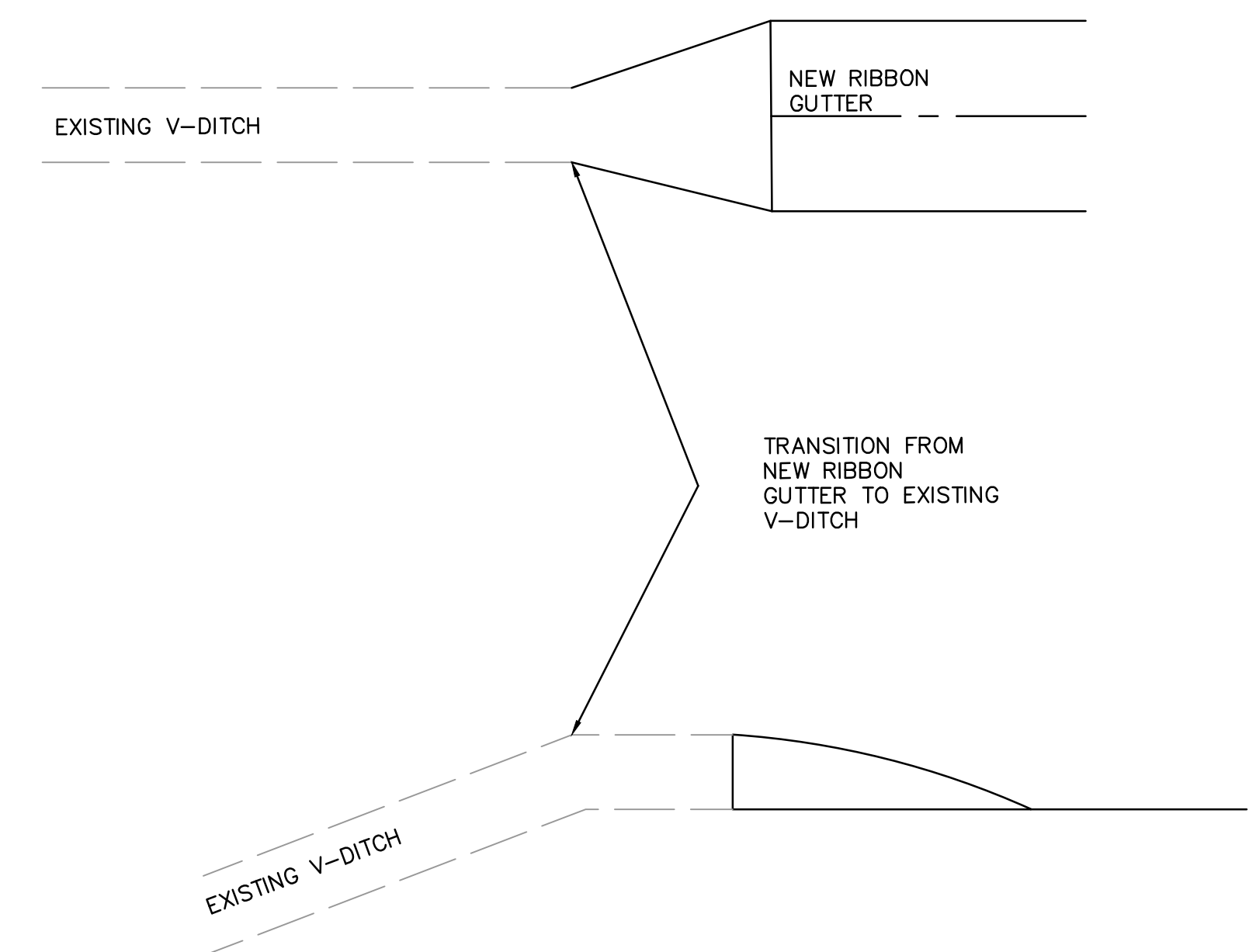
SECTION B-B
NTA



SECTION C-C
NTA



V GUTTER DETAIL
NTA



CONNECTION TO V GUTTER DETAIL
NTA

Plotted: Aug 24, 2021 - 3:01pm by: draught Drawing Name: U:\088\728-42 Heritage Lift Station\Drawings\728-42 HERITAGE LIFT STATION SITE IMPROVEMENTS.dwg

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 SEE GENERAL NOTES
 FOR FURTHER INFORMATION.

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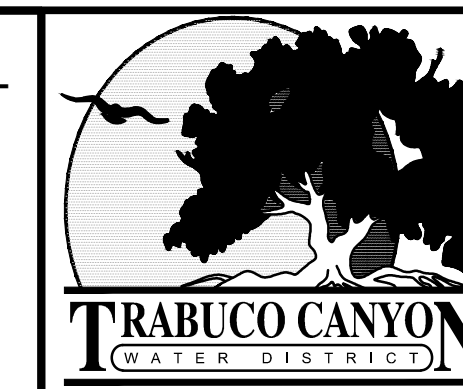
REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY:
 D.L.M.
 REVIEWED BY:
 D.J.M.



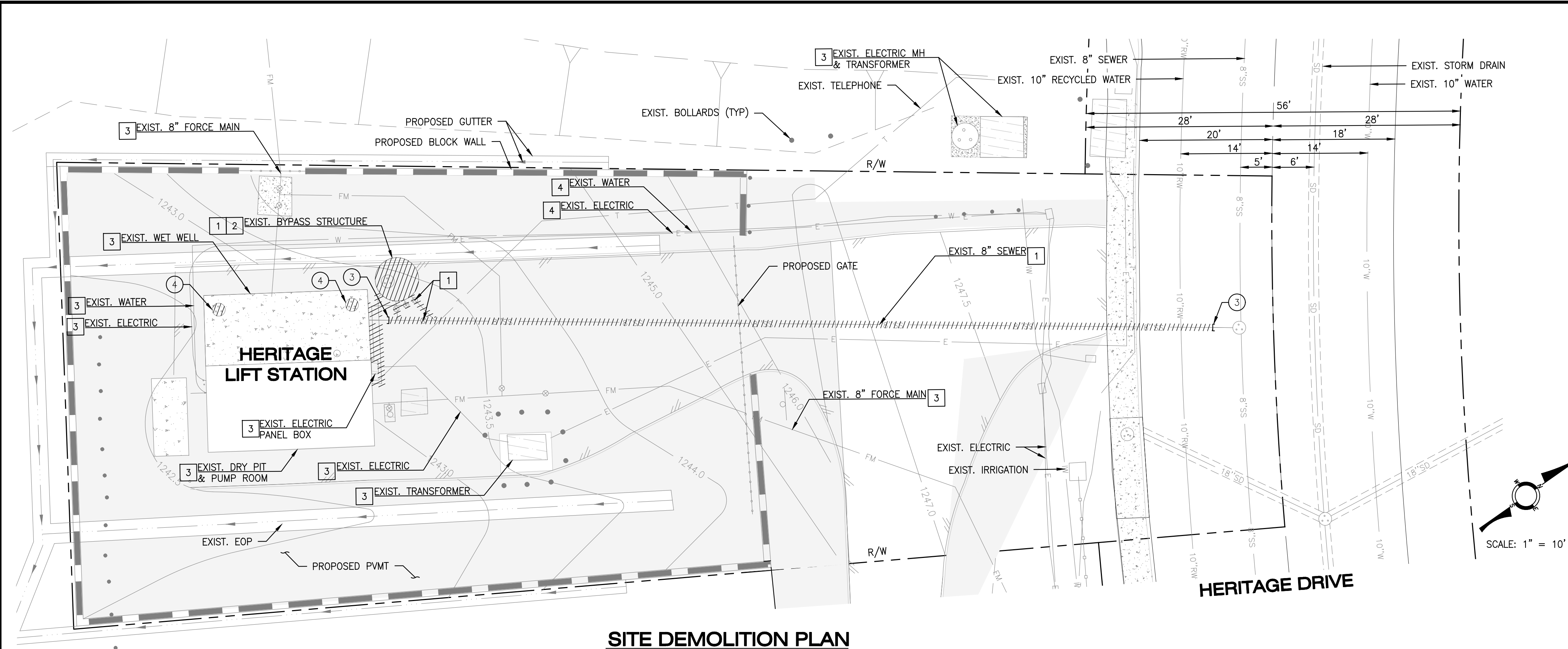
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 LORRAINE S. LAUSTEN, P.E. RCE #67027 DATE
 DISTRICT ENGINEER



TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENT
 SHEET
8
 OF 13 SHEETS
 DMC IN: 728-42

HERITAGE LIFT STATION SITE IMPROVEMENT



SITE DEMOLITION PLAN

LEGEND

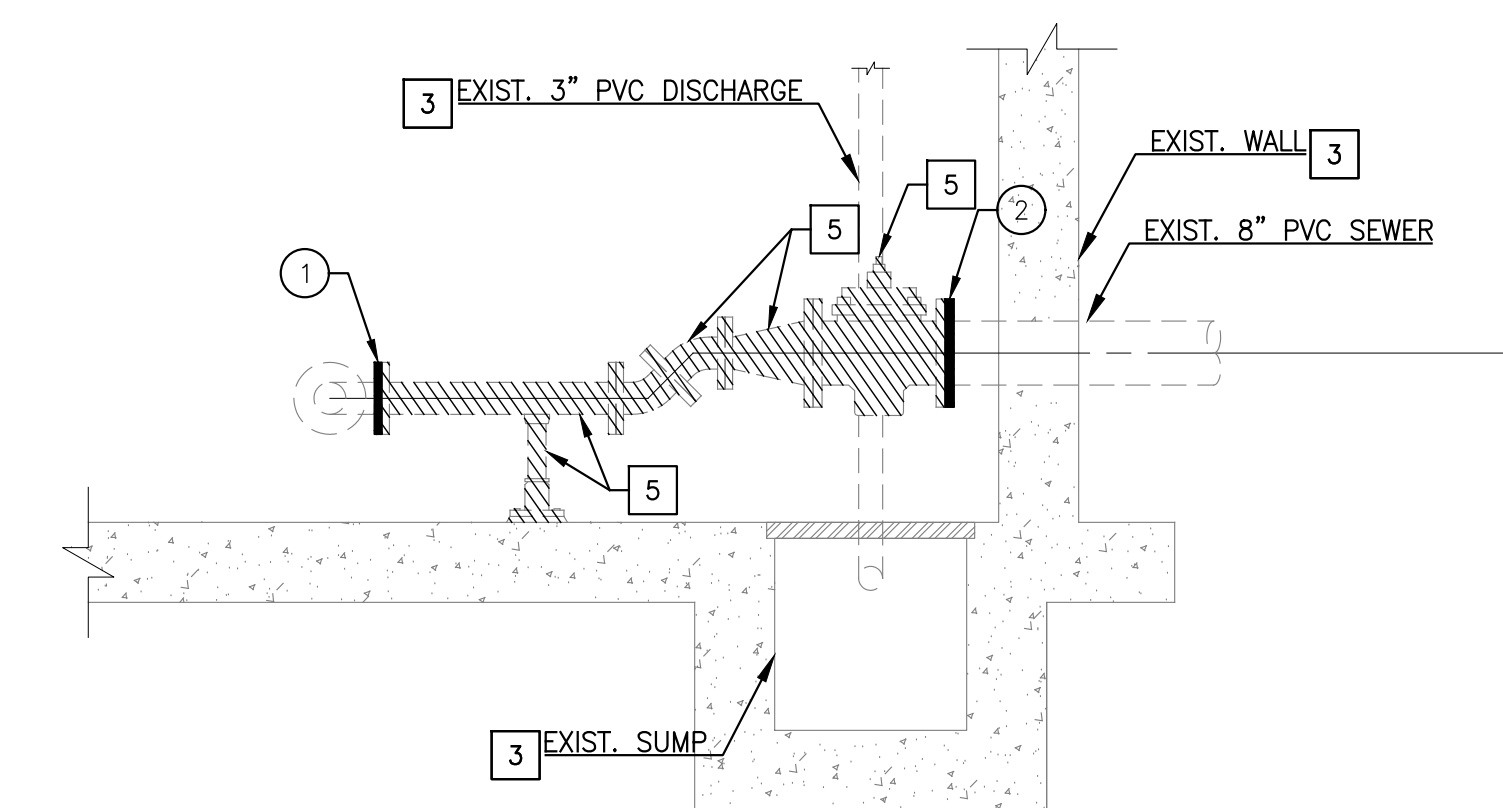
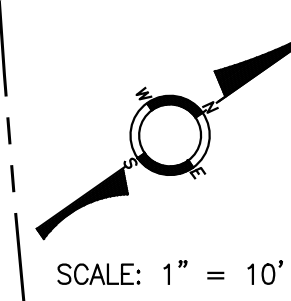
- DEMOLISH AND DISPOSE OF EXISTING WET WELL, SEWER PIPING, VALVES, AND APPURTENANCES
- PROPOSED SITE IMPROVEMENTS

DEMOLITION NOTES

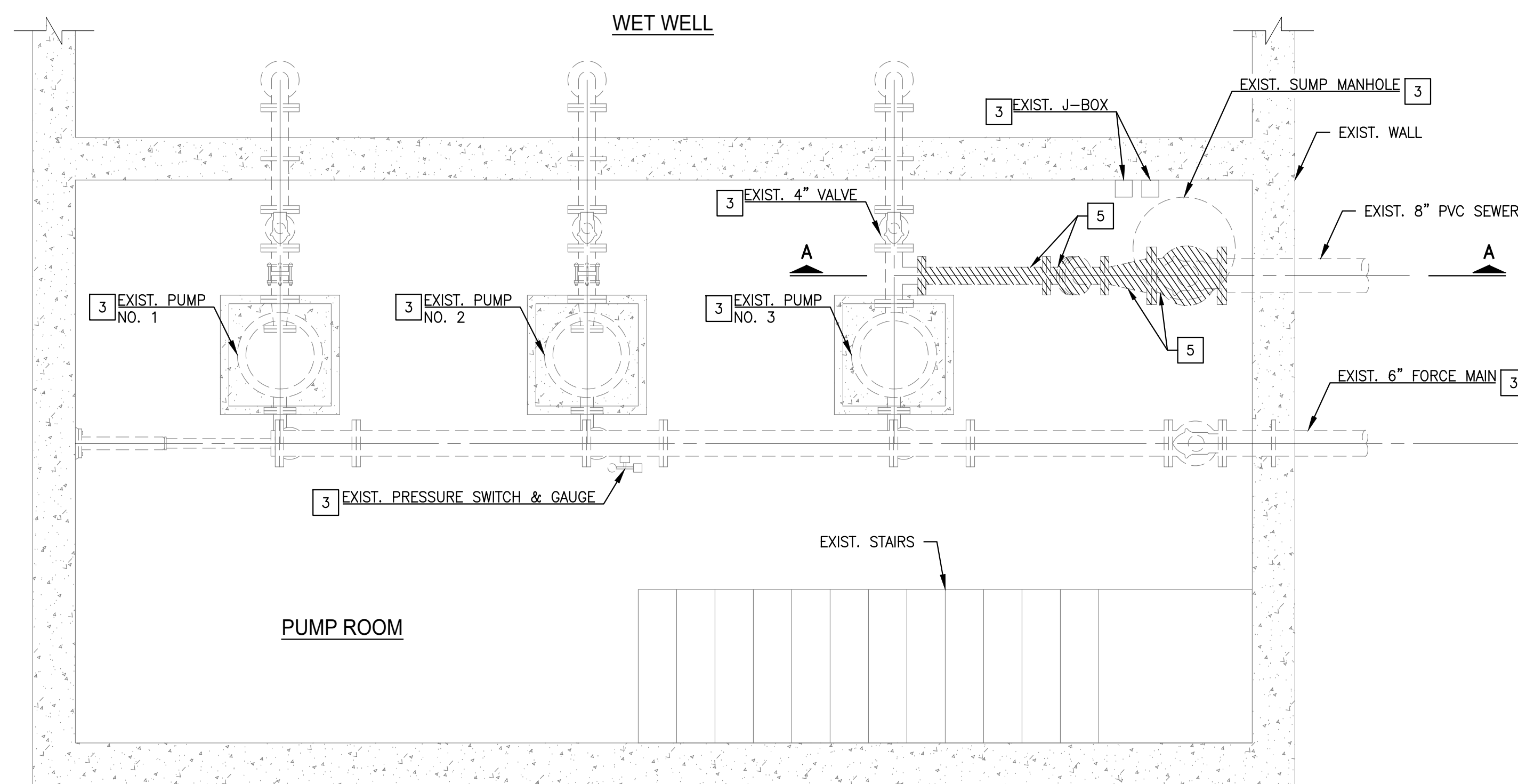
- 1 DEMOLISH EXISTING WET WELL, PIPING, VALVES, AND APPURTENANCES
- 2 REMOVE AND DISPOSE OF ALL EQUIPMENT INSIDE EXISTING BYPASS STRUCTURE AS SHOWN
- 3 PROTECT IN PLACE
- 4 UTILITY TO BE RELOCATED SEE CIVIL SHEETS
- 5 REMOVE AND DISPOSE OF EXISTING DUCTILE IRON PIPE, SUPPORTS, VALVES, AND APPURTENANCES

CONSTRUCTION NOTES

- 1 CONSTRUCT 4" DUCTILE IRON BLIND FLANGE (EPOXY COATED)
- 2 CONSTRUCT 8" DUCTILE IRON BLIND FLANGE (EPOXY COATED)
- 3 CUT EXISTING 8" PVC SEWER
- 4 RETROFIT EXISTING SEWER MANHOLE FRAME AND COVER PER

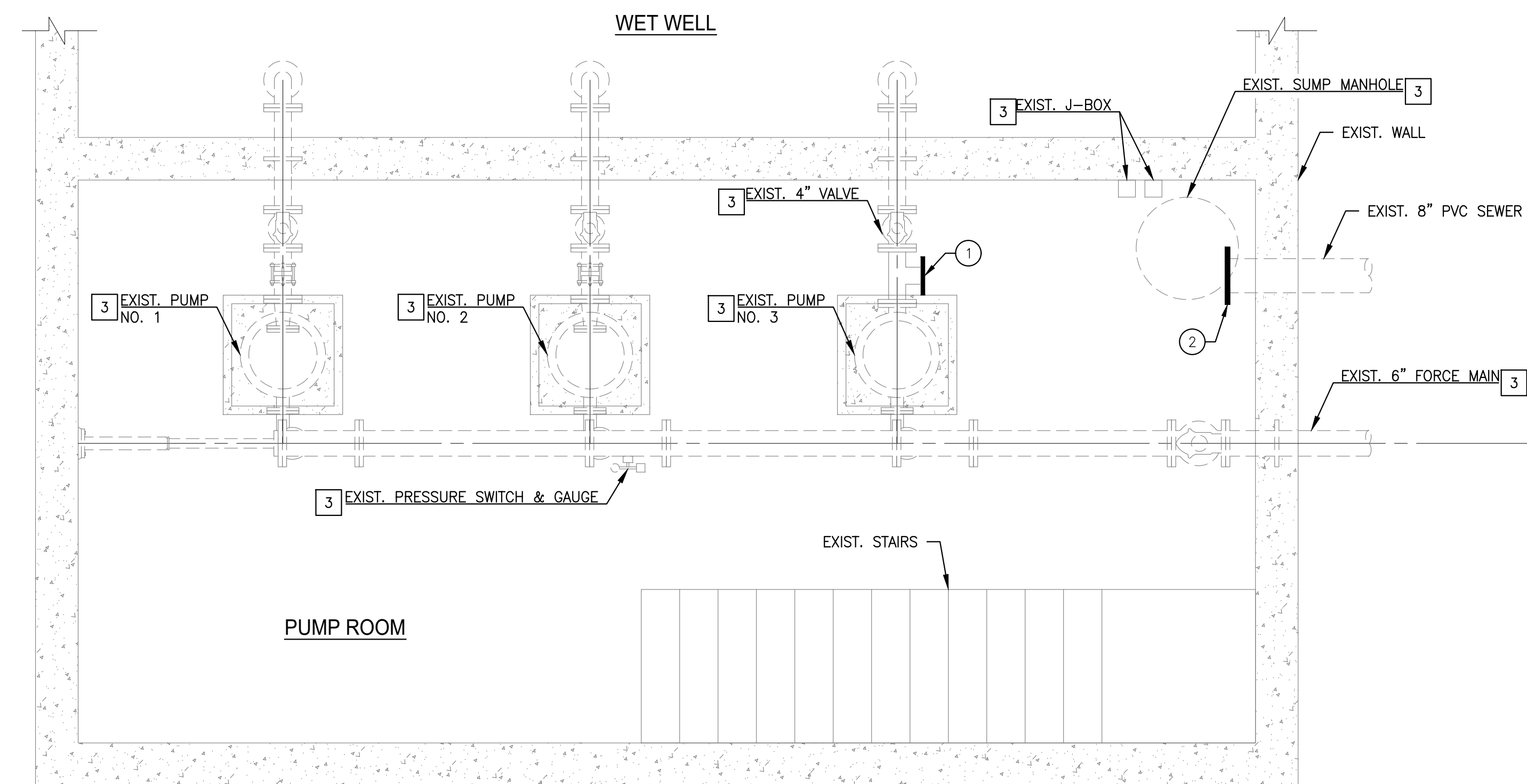


SECTION A-A
SCALE: 1/2"=1'-0"



MECHANICAL DRY PIT DEMOLITION PLAN

SCALE: 1/2"=1'-0"



MECHANICAL DRY PIT IMPROVEMENTS PLAN

SCALE: 1/2"=1'-0"

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REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: M.M. & J.T.
REVIEWED BY: J.G.
APPROVED BY

318 W KATELLA AVE, SUITE A
ORANGE, CA 92867
(714) 978-4407
www.jigconsultants.com

APPROVED
TRABUCO CANYON WATER DISTRICT

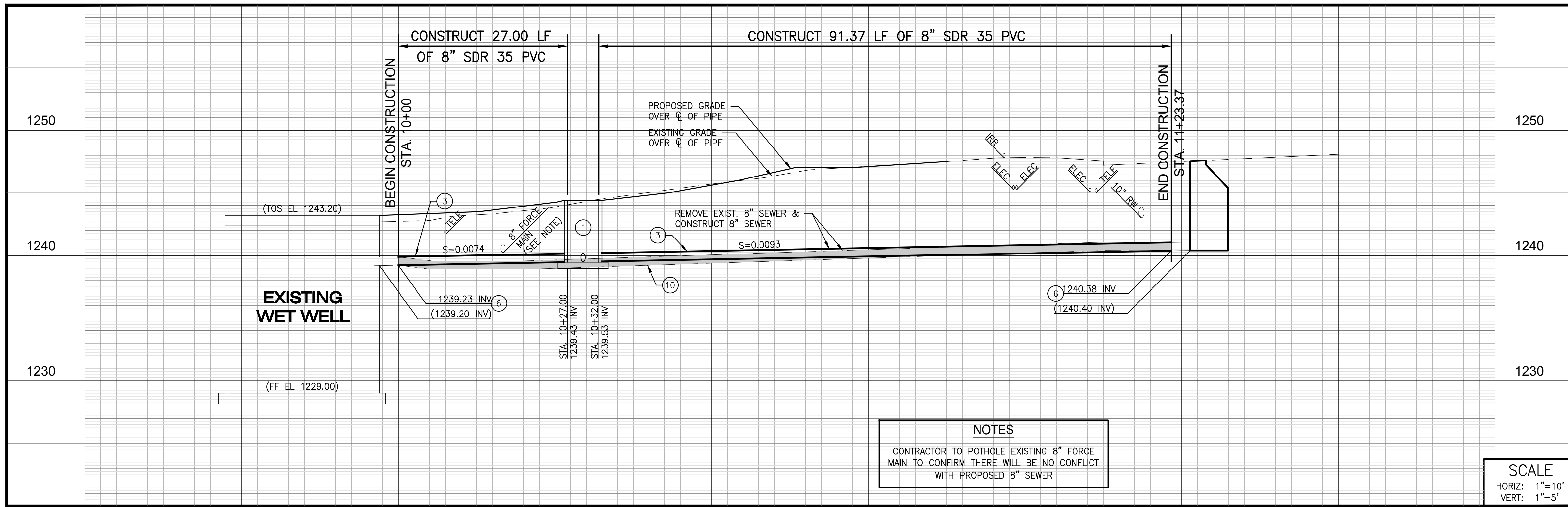
DATE _____
LORRAINE S. LAUSTEN, P.E. RCE #67027
DISTRICT ENGINEER

TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENTS

SITE DEMOLITION PLAN AND MECHANICAL DRY PIT IMPROVEMENTS

D-1
SHEET
9
OF 13 SHEETS

HERITAGE LIFT STATION SITE IMPROVEMENT



NOTES
 CONTRACTOR TO POTHOLE EXISTING 8" FORCE MAIN TO CONFIRM THERE WILL BE NO CONFLICT WITH PROPOSED 8" SEWER

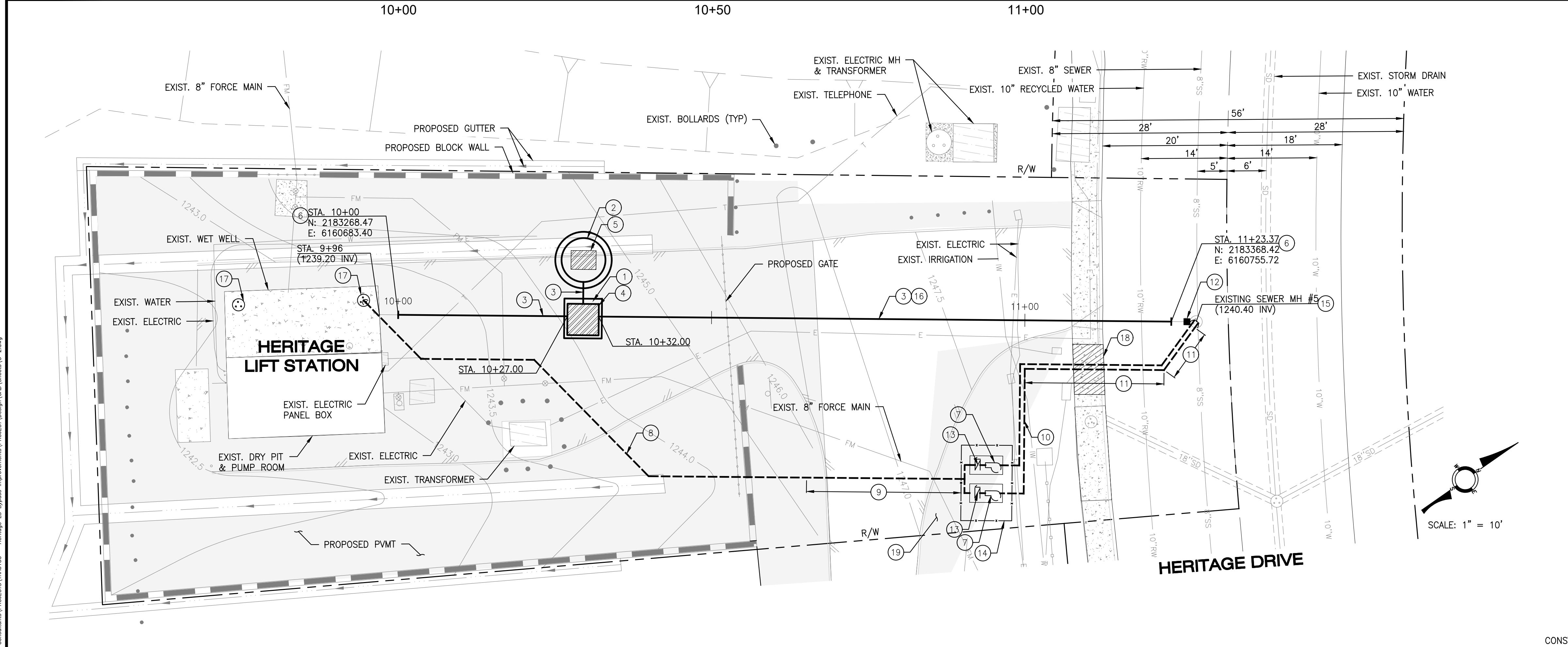
SCALE
 HORIZ: 1"=10'
 VERT: 1"=5'

CONSTRUCTION NOTES

- 1 CONSTRUCT 5 FT x 5 FT PRECAST CONCRETE DIVERSION STRUCTURE PER SHEET M-3
- 2 CONSTRUCT 7'-0" I.D. PRECAST CONCRETE BYPASS WET WELL WITH BOTTOM SLAB PER SHEET M-3
- 3 CONSTRUCT 8" SDR 35 PVC SEWER PER (3 M-4)
- 4 CONSTRUCT 4 FT x 4 FT ALUMINUM SINGLE LEAF, SPRING ASSISTED H-20 TRAFFIC RATED ACCESS HATCH WITH SAFETY GRATE
- 5 CONSTRUCT 3 FT x 4 FT ALUMINUM SINGLE LEAF, SPRING ASSISTED H-20 TRAFFIC RATED ACCESS HATCH WITH SAFETY GRATE
- 6 JOIN EXISTING 8" SEWER WITH STAINLESS STEEL SHIELDED RUBBER COUPLING
- 7 FURNISH AND INSTALL ELECTRIC AND DIESEL FUEL DRIVEN SEWER BYPASS PUMPS
- 8 CONSTRUCT 4" TEMPORARY ABOVE GROUND STEEL DISCHARGE PIPE
- 9 CONSTRUCT 4" TEMPORARY UNDERGROUND STEEL DISCHARGE PIPE
- 10 CONSTRUCT TWO 4" TEMPORARY ABOVE GROUND STEEL SUCTION PIPES
- 11 CONSTRUCT TWO 4" TEMPORARY UNDERGROUND STEEL SUCTION PIPES
- 12 CONSTRUCT TEMPORARY PLUG DURING BYPASS
- 13 FURNISH AND INSTALL CHECK VALVE
- 14 FURNISH AND INSTALL TEMPORARY SOUND ENCLOSURE AROUND BYPASS PUMPS
- 15 CORE DRILL THROUGH MANHOLE WALL PER (1)
- 16 REMOVE EXISTING 8" PVC SEWER
- 17 RETROFIT EXISTING SEWER MANHOLE FRAME PER (4 M-4)
- 18 REMOVE AND REPLACE EXISTING CURB, GUTTER, AND SIDEWALK IN KIND
- 19 REPLACE IN KIND EXISTING LANDSCAPING AND IRRIGATION TO THE SATISFACTION OF OWNER

TEMPORARY BYPASS WORK SEQUENCE SUMMARY

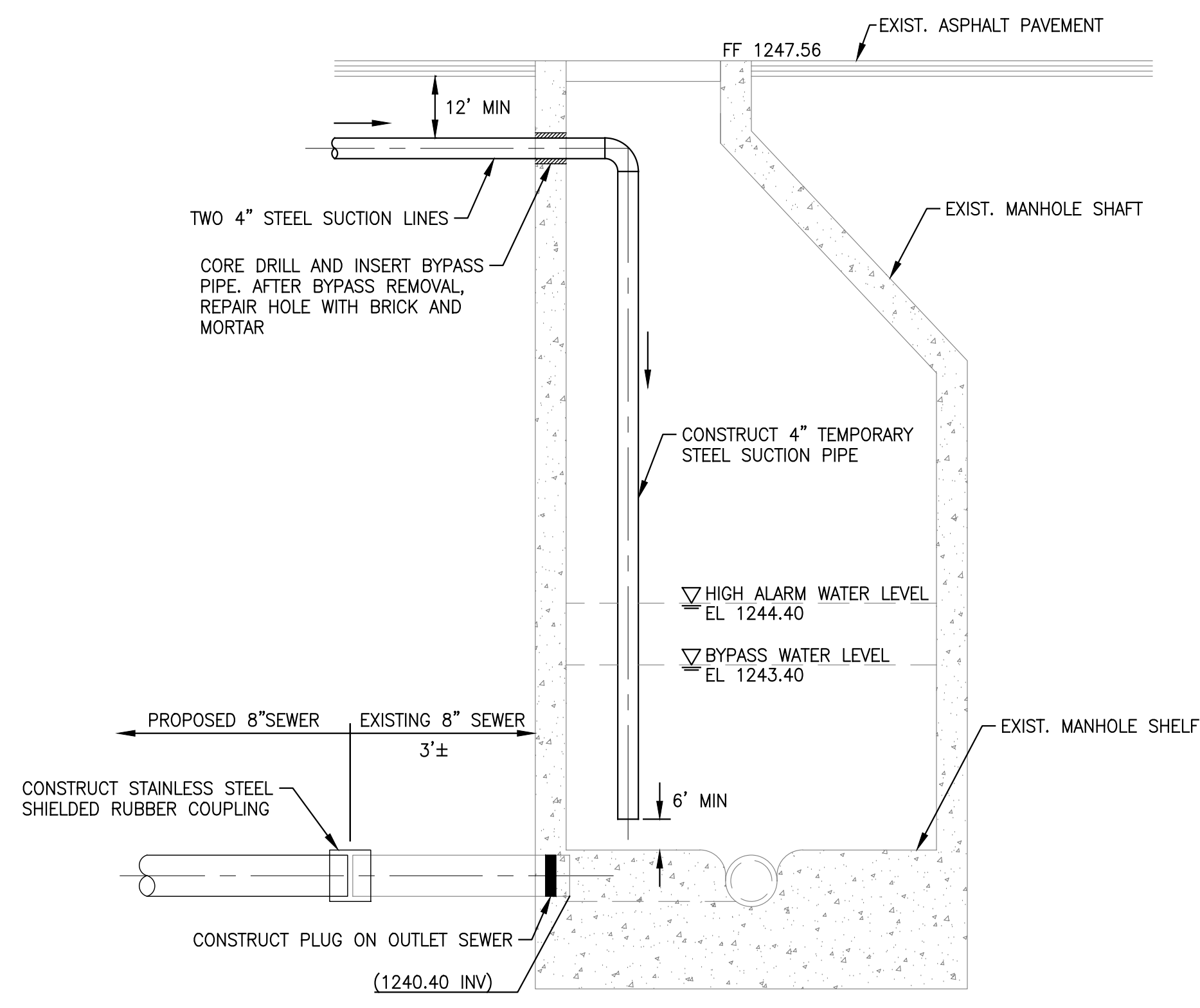
1. CONTRACTOR SHALL MOBILIZE TEMPORARY BYPASS PUMPS, FABRICATE, AND INSTALL STEEL BYPASS PIPELINE (ABOVE GROUND AND UNDERGROUND). CONTRACTOR SHALL ERECT TEMPORARY SOUND ENCLOSURE.
2. CONTRACTOR SHALL INSTALL A PLUG ON THE UPSTREAM MANHOLE AND ACTIVATE THE ELECTRIC BYPASS PUMP TAKING SUCTION FROM THE UPSTREAM MANHOLE.
3. ONCE THE TEMPORARY BYPASS PUMPS ARE TESTED AND IN WORKING ORDER, CONTRACTOR CAN BEGIN DEMOLITION OF THE EXISTING 8" SEWER, EXISTING BYPASS STRUCTURE, DRY PIT IMPROVEMENTS, AND OTHER WORK SHOWN ON THESE CONSTRUCTION PLANS.
4. ONCE CONSTRUCTION IS COMPLETED, CONTRACTOR SHALL REMOVE ABOVE GROUND STEEL BYPASS PIPELINE AND ABANDON UNDERGROUND STEEL BYPASS PIPELINE. CONTRACTOR SHALL REMOVE BYPASS PIPELINE IN MANHOLE AND REPAIR HOLE ON MANHOLE SHAFT WITH BRICK AND MORTAR.
5. CONTRACTOR SHALL REPLACE IN KIND EXISTING CONCRETE SIDEWALK, CURB, GUTTER, AND ASPHALT PAVEMENT WHERE DAMAGED.
6. CONTRACTOR SHALL REPLACE IN KIND EXISTING LANDSCAPING AND IRRIGATION TO PRE-CONSTRUCTION CONDITIONS.



SCALE: 1" = 10'

HYDRAULIC DATA

FROM STA. TO STA.	DIAMETER (INCH)	DEPTH (FEET)	VELOCITY (FT/SEC)	d/D	SLOPE
10+00.00 TO 10+27.00	8"	0.32	3.44	0.48	0.0074
Qpeak = 210 GPM		0.24	3.00	0.36	
10+32.00 TO 11+23.37	8"	0.30	3.75	0.45	0.0093
Qpeak = 210 GPM		0.22	3.26	0.33	



BYPASS CONNECTION DETAIL (1)
 SCALE: 1/2"=1'-0"

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

DIGALERT
 CALL BEFORE YOU DIG
 TOLL FREE 1-800-227-2800
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY:
M.M. & J.T.

REVIEWED BY:
J.G.

JIG CONSULTANTS
 318 W KATELLA AVE, SUITE A
 ORANGE, CA 92867
 (714) 978-4407
 www.jigconsultants.com

APPROVED
TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027
 DISTRICT ENGINEER

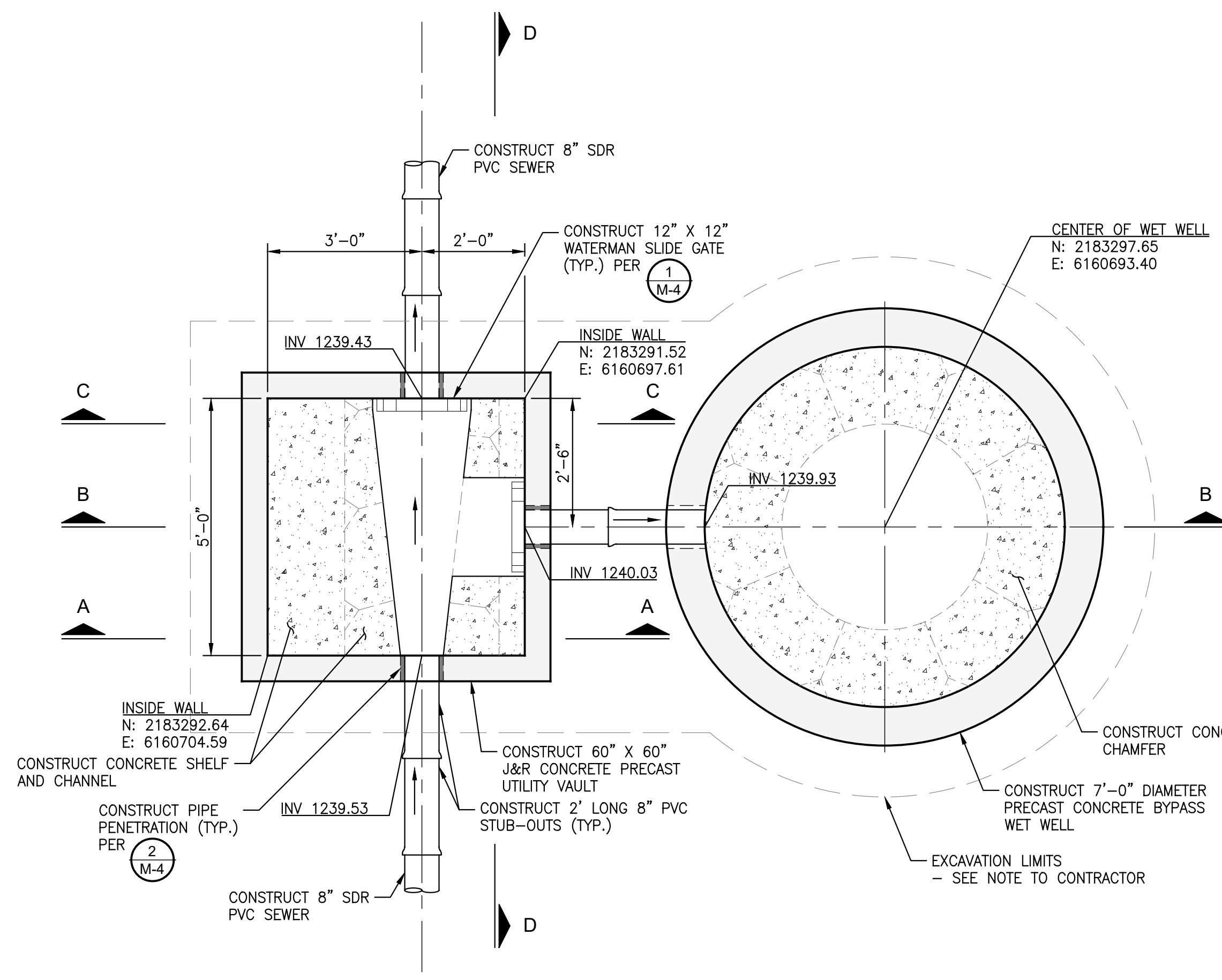


TRABUCO CANYON WATER DISTRICT
 HERITAGE LIFT STATION SITE IMPROVEMENTS

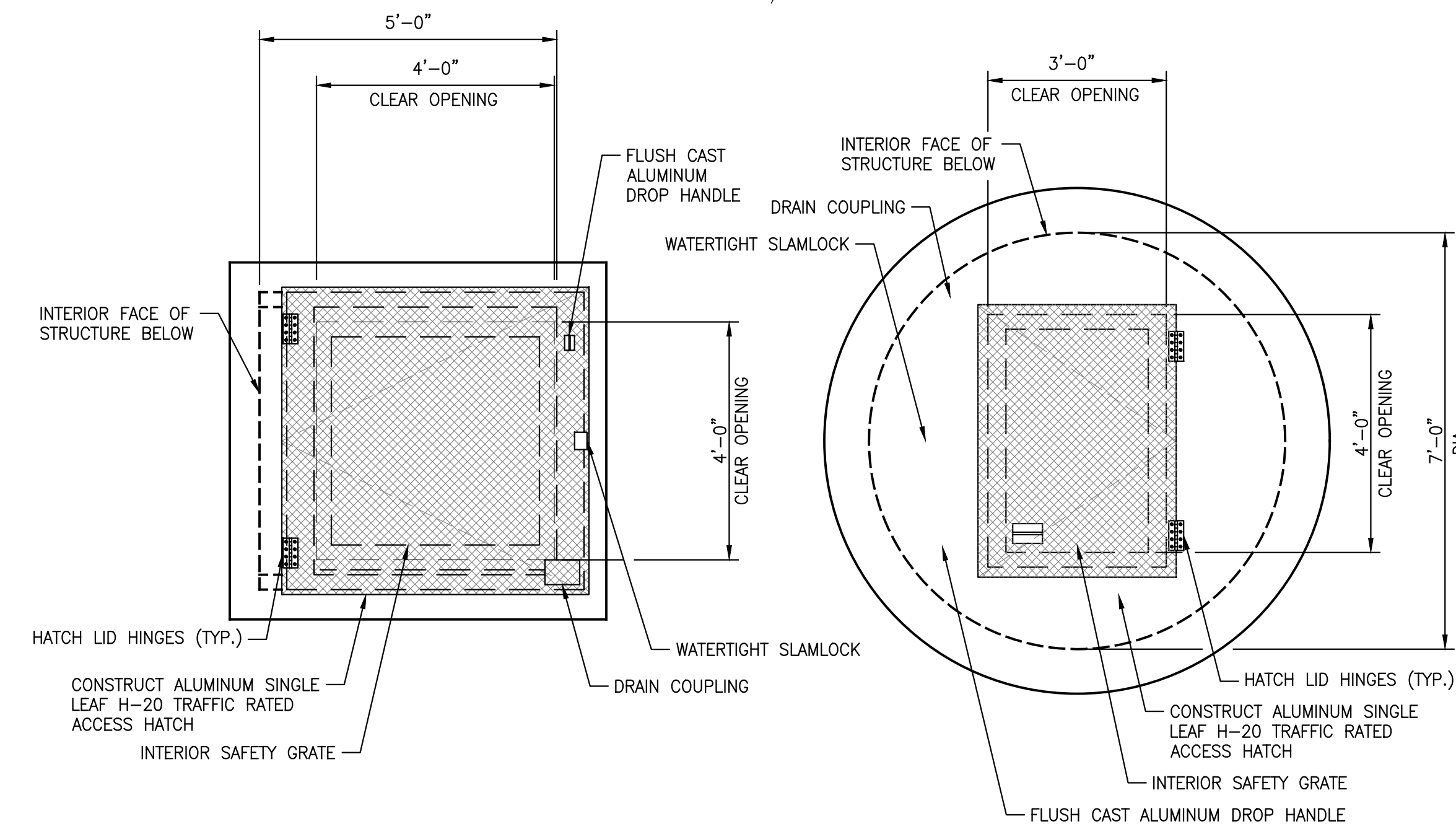
PLAN & PROFILE OF 8-INCH INFLUENT SEWER
 SEWER BYPASS PLAN

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HERITAGE LIFT STATION SITE IMPROVEMENT



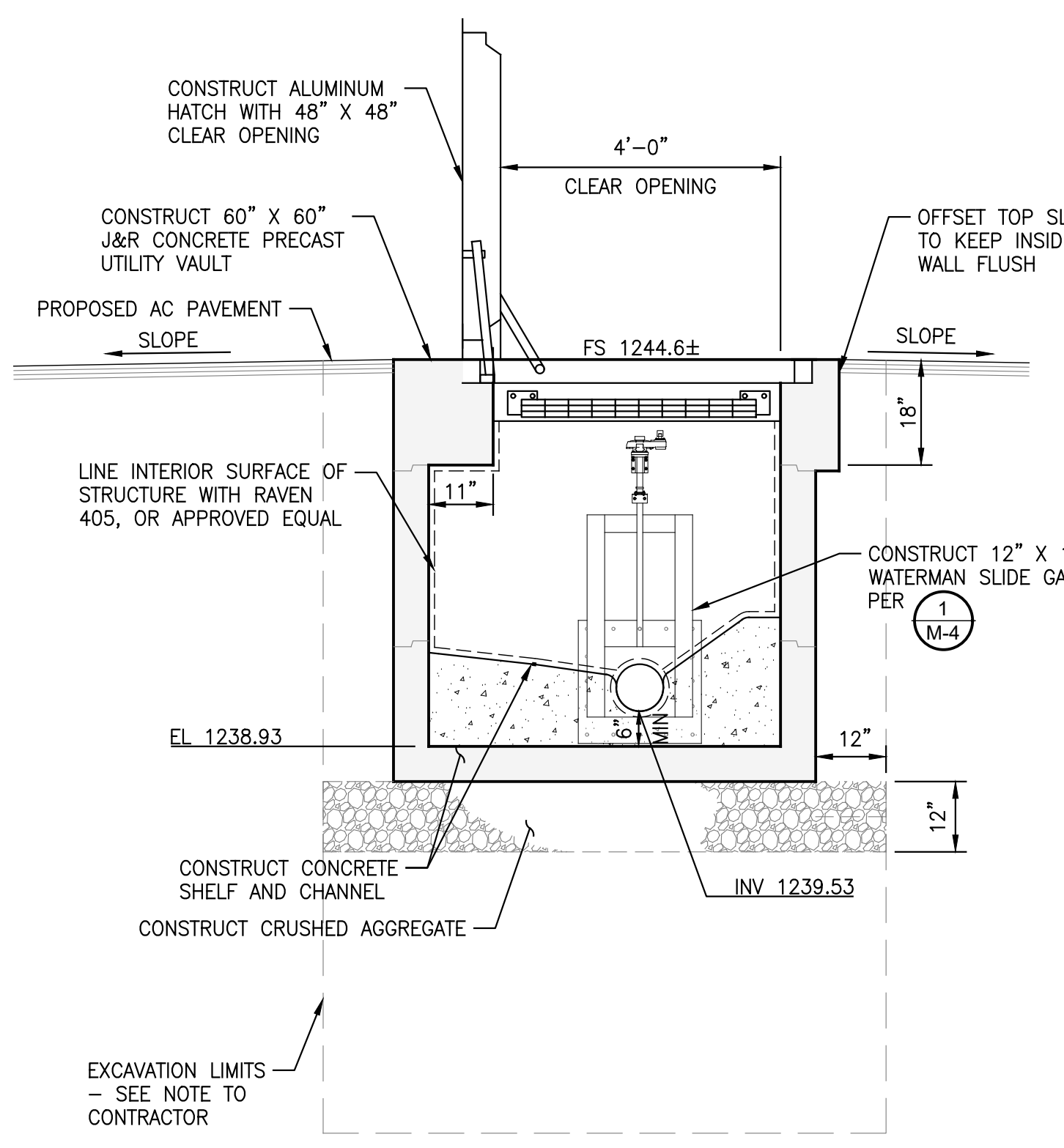
DIVERSION STRUCTURE AND BYPASS WET WELL FLOOR PLAN
SCALE: 1/2"=1'-0"



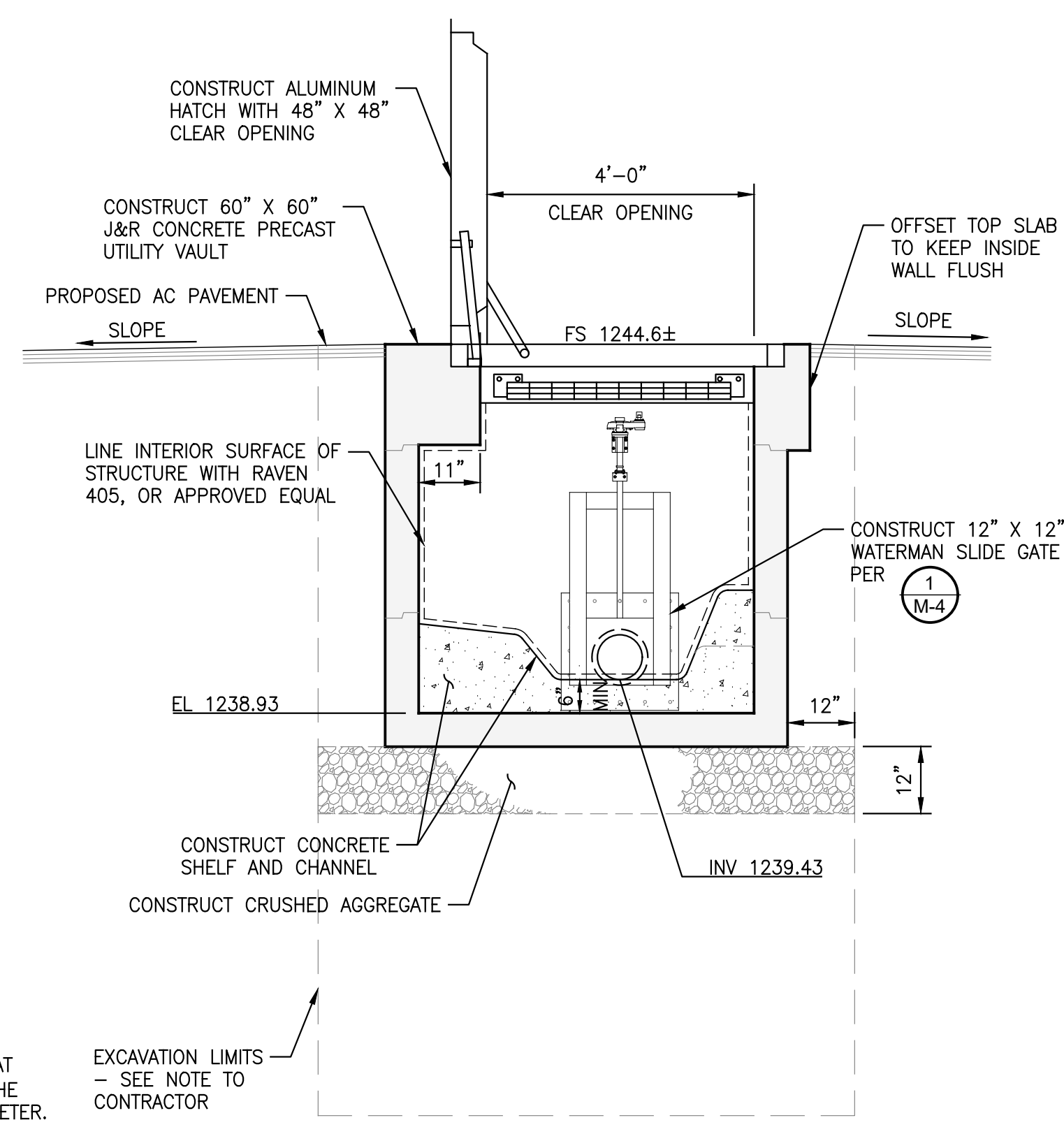
DIVERSION STRUCTURE AND BYPASS WET WELL TOP SLAB PLAN
SCALE: 1/2"=1'-0"

NOTE TO CONTRACTOR

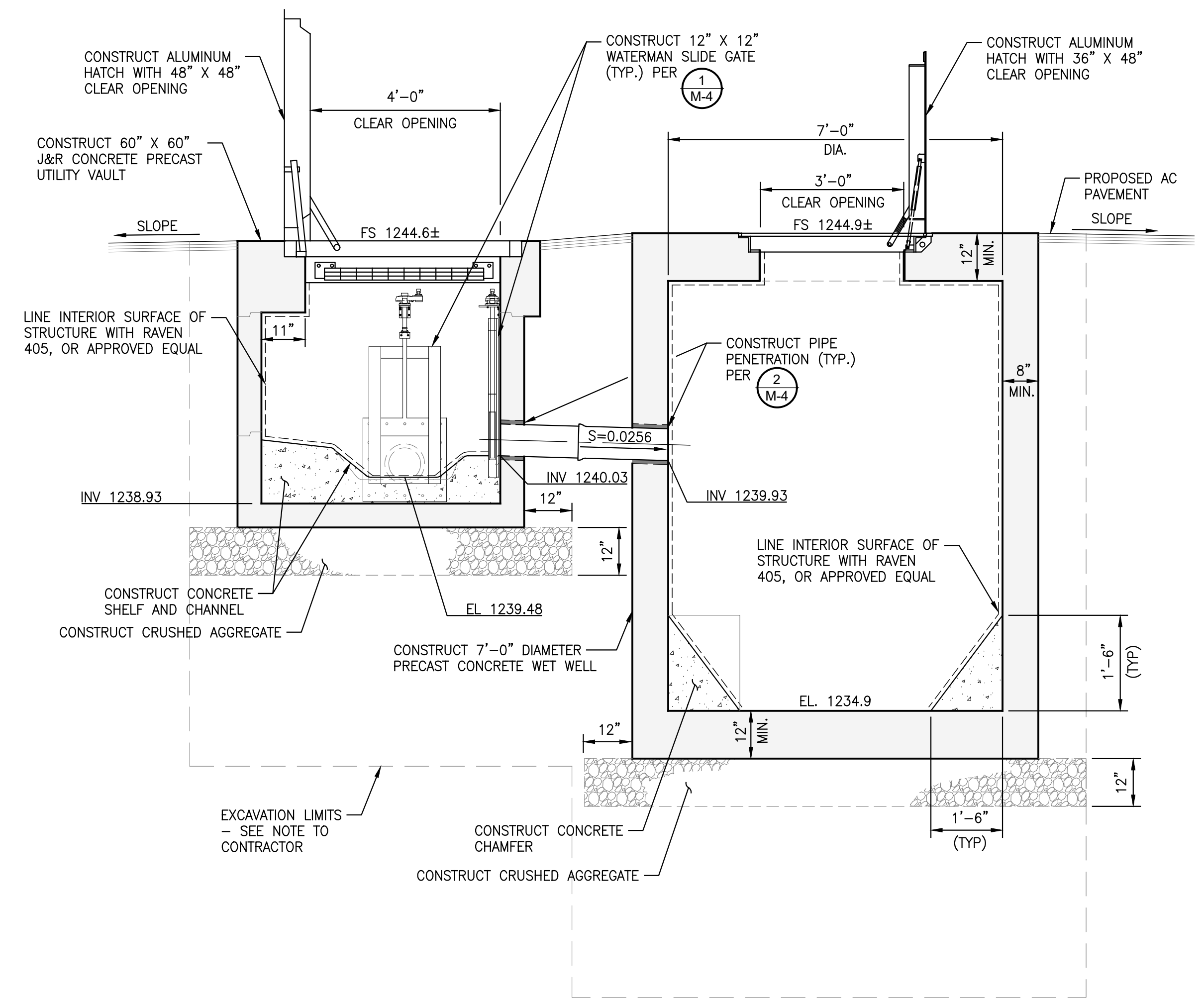
CONTRACTOR TO PREPARE SITE USING RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION AND FOUNDATION DESIGN PARAMETERS PREPARED BY CMU. CONTRACTOR SHALL EXCAVATE TO A DEPTH OF AT LEAST 5 FEET BELOW THE BOTTOM OF THE STRUCTURE/FOOTING ACROSS THE ENTIRE FOOTPRINT OF THE BYPASS WET WELL AND THE DIVERSION STRUCTURE AND EXTEND AT LEAST 1 FOOT BEYOND THE PERIMETER. THE BOTTOM OF THE EXCAVATION SHOULD THEN BE SCARIFIED TO A DEPTH OF AT LEAST 6". FILL MATERIAL SHALL BE PLACED IN 6" TO 8" THICK LIFTS, MOISTURE CONDITIONED TO 2% ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO ACHIEVE 90% RELATIVE COMPACTION. ONSITE MATERIAL MAY BE USED AS FILL MATERIAL, OR CONTRACTOR'S ELECTION TO USE SLURRY IS ACCEPTABLE. NO ROCK OR BROKEN CONCRETE GREATER THAN 6" IN DIAMETER SHOULD BE UTILIZED IN FILLS.



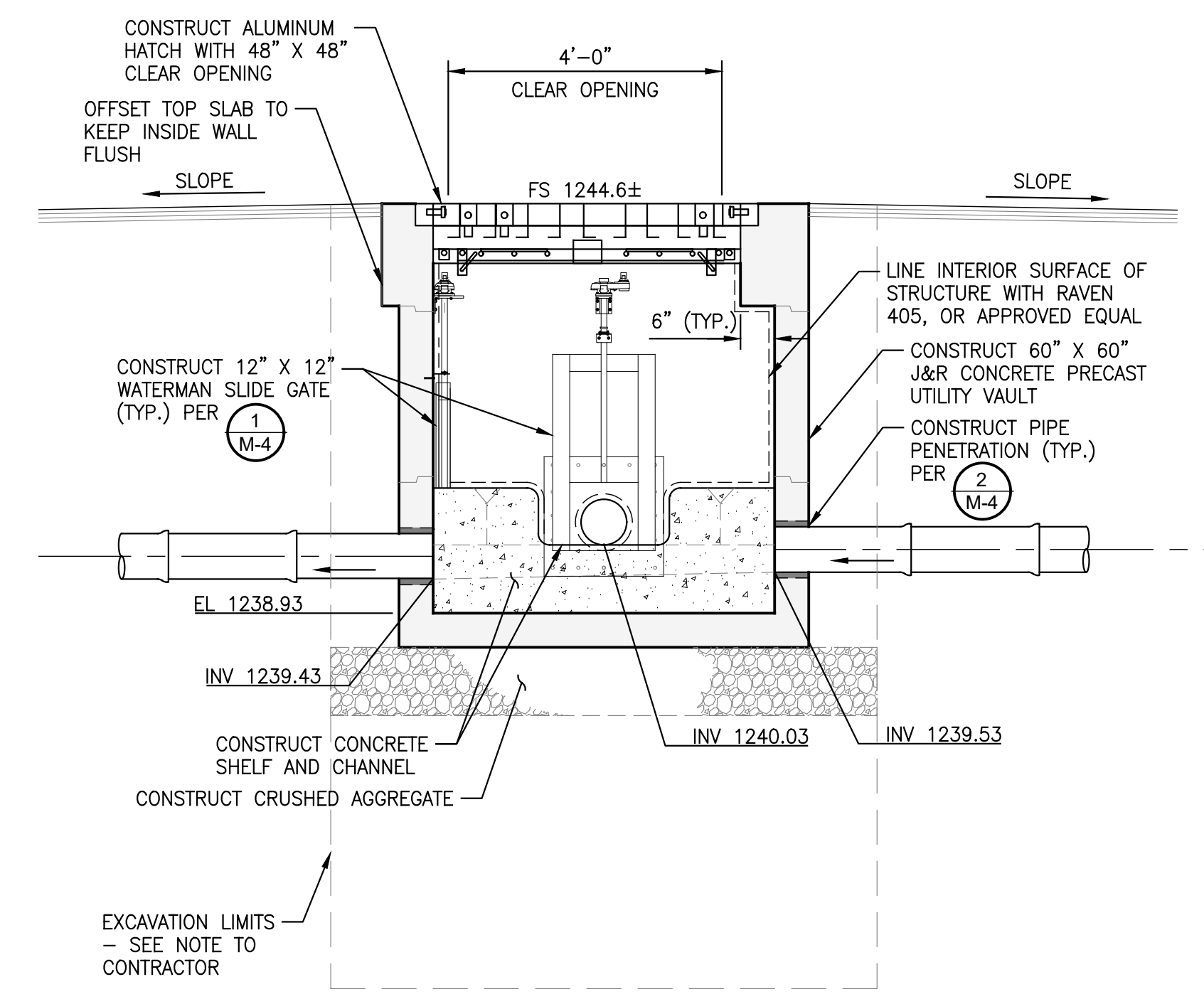
SECTION A-A
SCALE: 1/2"=1'-0"



SECTION C-C
SCALE: 1/2"=1'-0"



SECTION B-B
SCALE: 1/2"=1'-0"



SECTION D-D
SCALE: 1/2"=1'-0"

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

DIGALERT

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TWO WORKING DAYS BEFORE YOU DIG

TOLL FREE 1-800-227-2800

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: M.M. & J.T.
REVIEWED BY: J.G.

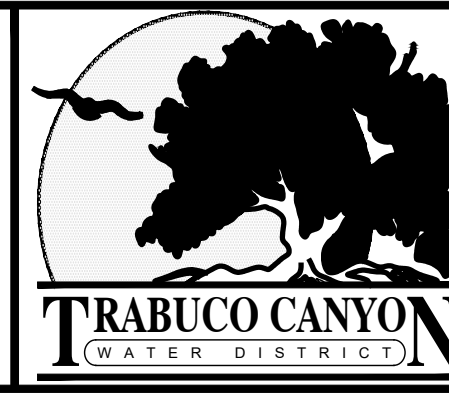
JIG CONSULTANTS

318 W KATELLA AVE, SUITE A
ORANGE, CA 92867
(714) 978-4407
www.jigconsultants.com

APPROVED
TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027
DISTRICT ENGINEER

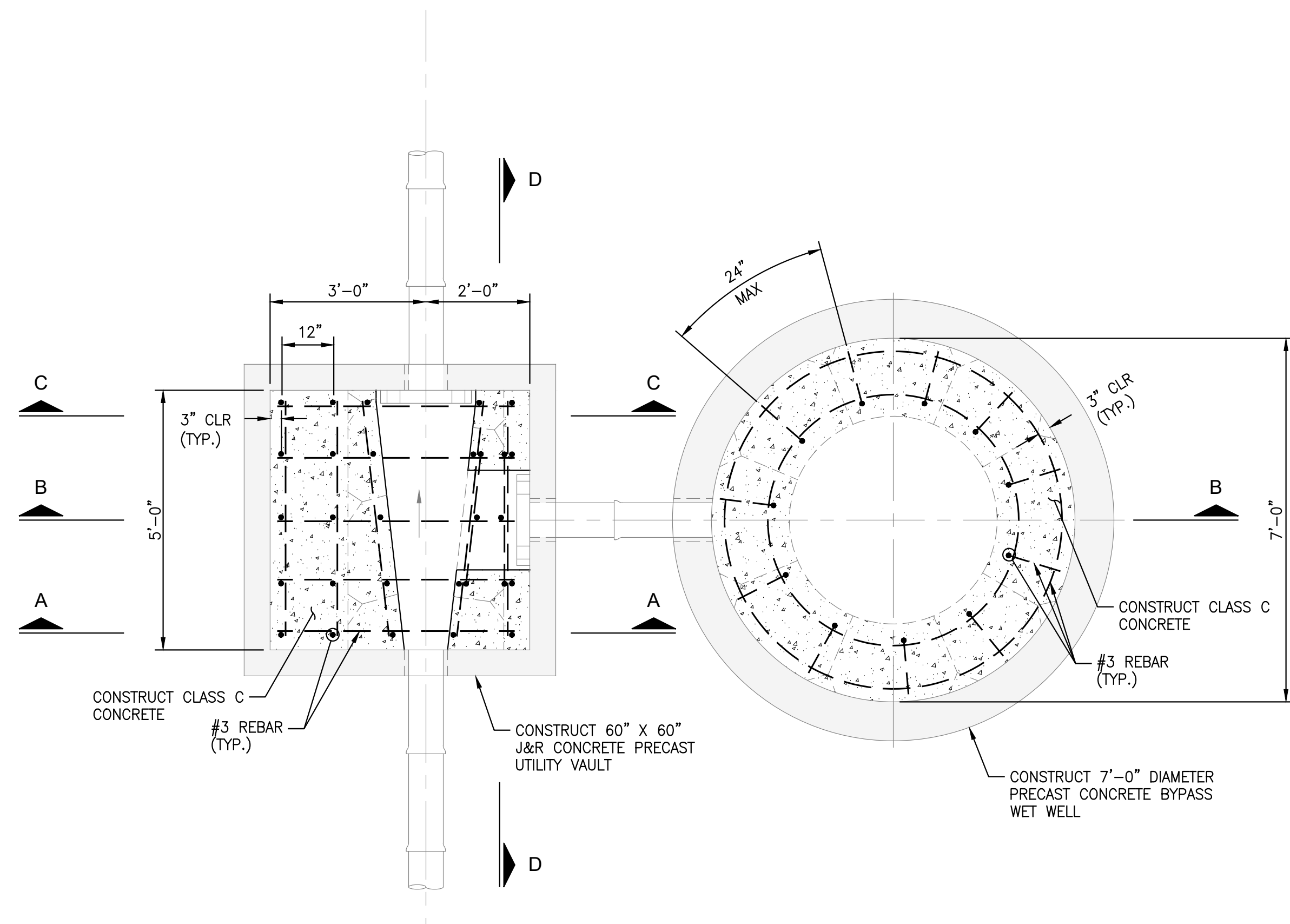
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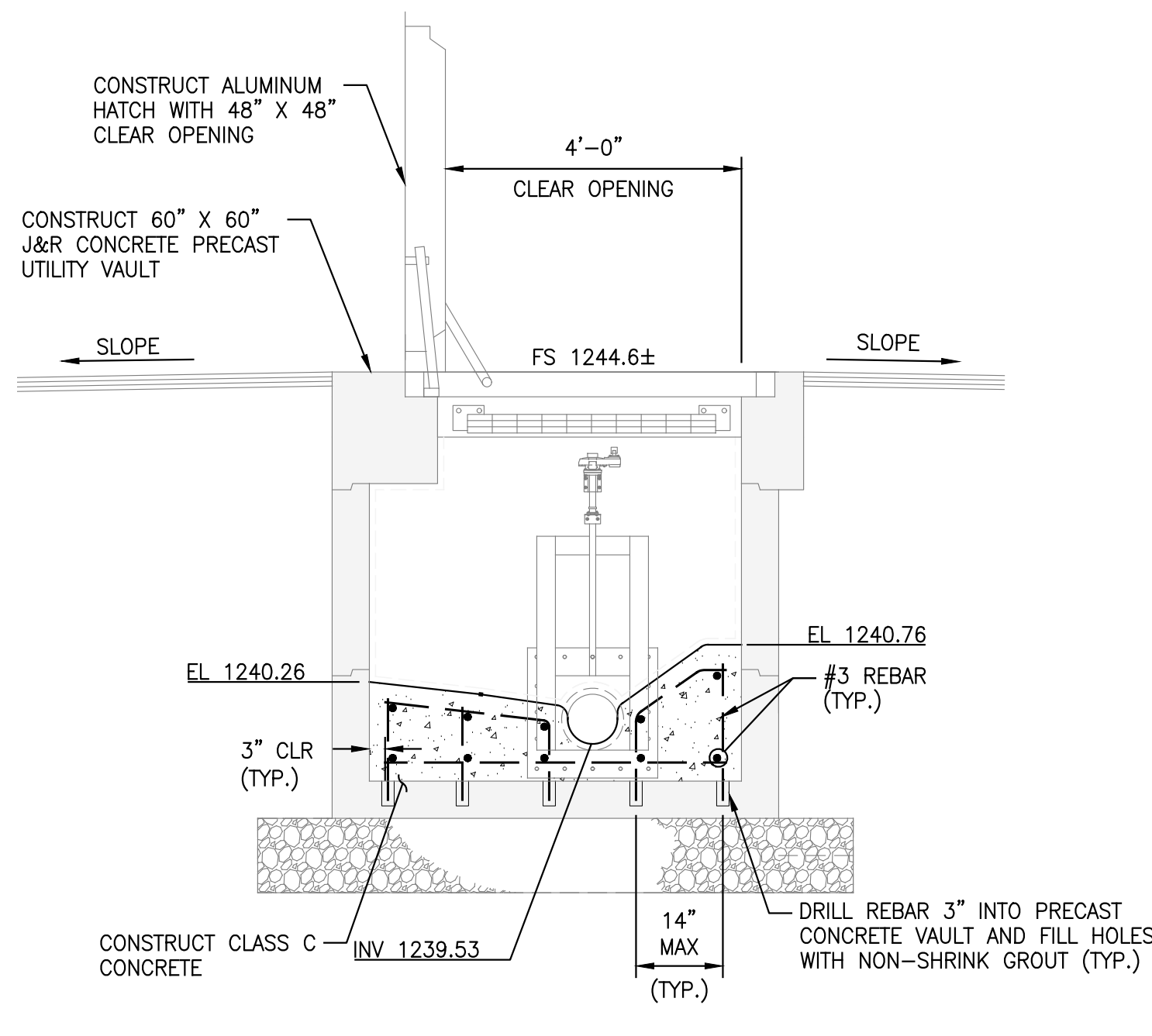
TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENTS

DIVERSION STRUCTURE AND BYPASS WET WELL
PLAN AND SECTIONS

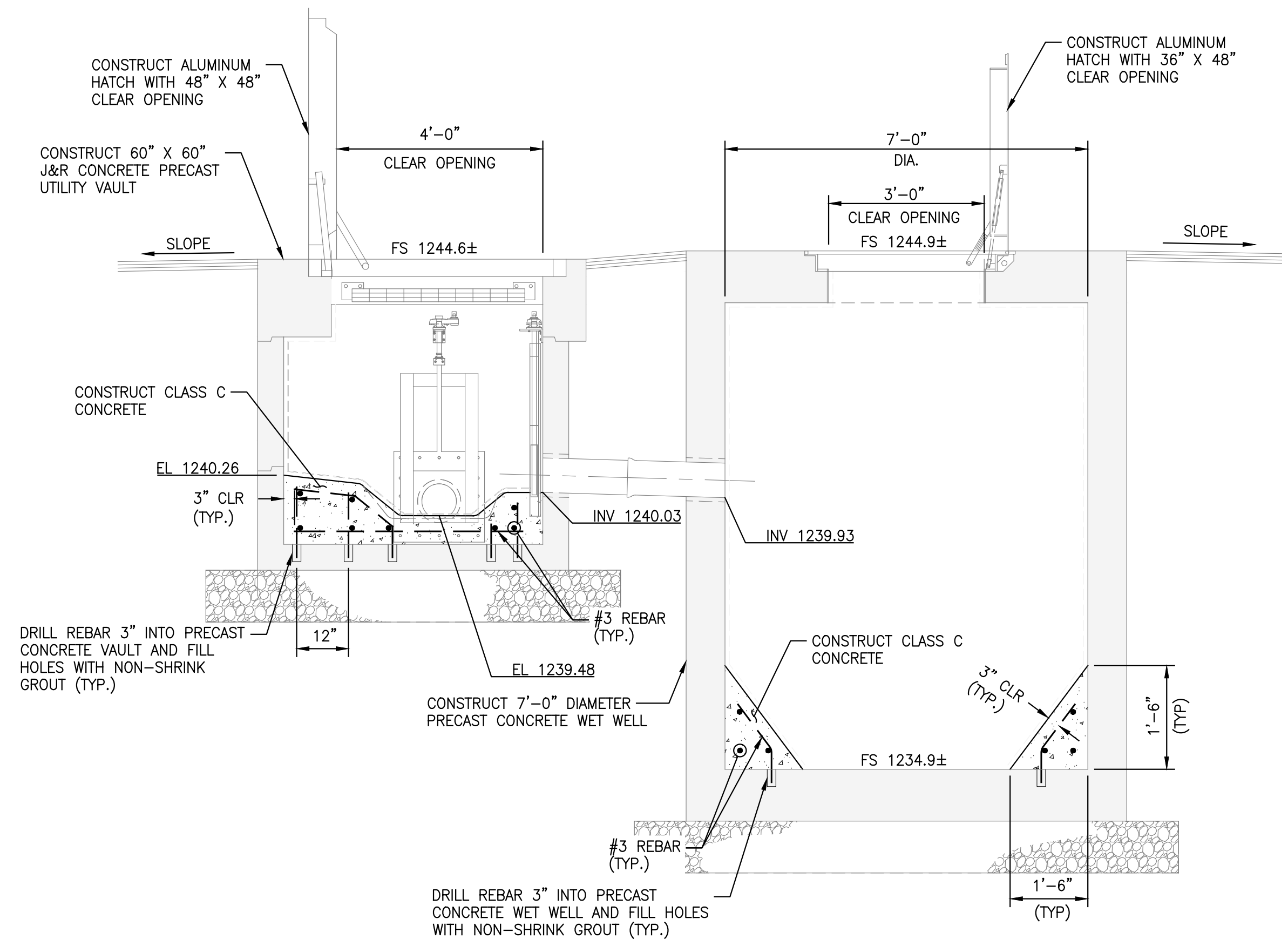
HERITAGE LIFT STATION SITE IMPROVEMENT



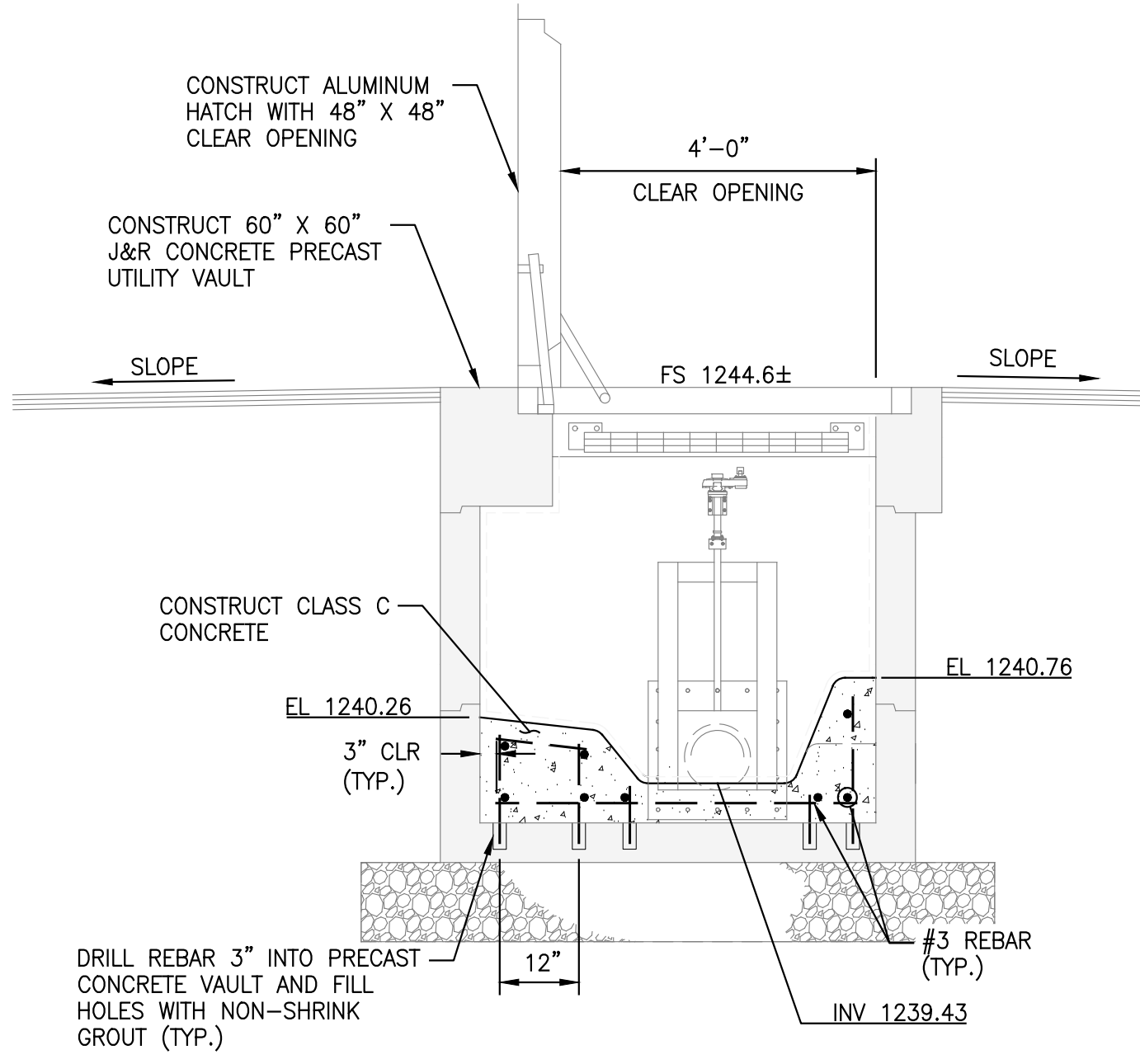
DIVERSION STRUCTURE AND BYPASS WET WELL FLOOR PLAN
SCALE: 1/2"=1'-0"



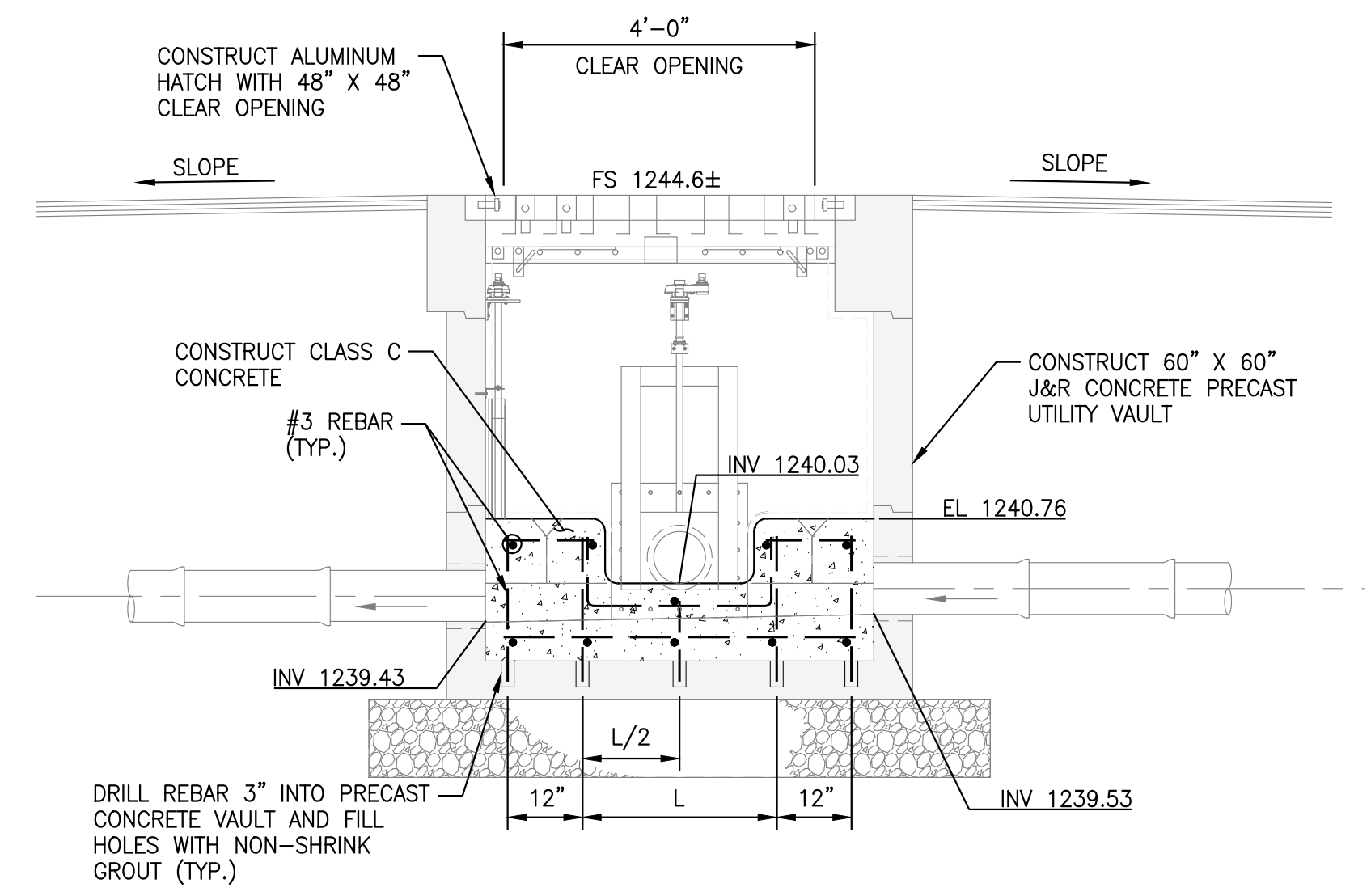
SECTION A-A
SCALE: 1/2"=1'-0"



SECTION B-B
SCALE: 1/2"=1'-0"



SECTION C-C
SCALE: 1/2"=1'-0"



SECTION D-D
SCALE: 1/2"=1'-0"

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CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

TOLL FREE 1-800-227-2800
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY:
M.M. & J.T.

REVIEWED BY:
J.G.

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TRABUCO CANYON WATER DISTRICT

LORRAIN S. LAUSTEN, P.E. RCE #67027
DISTRICT ENGINEER

DATE

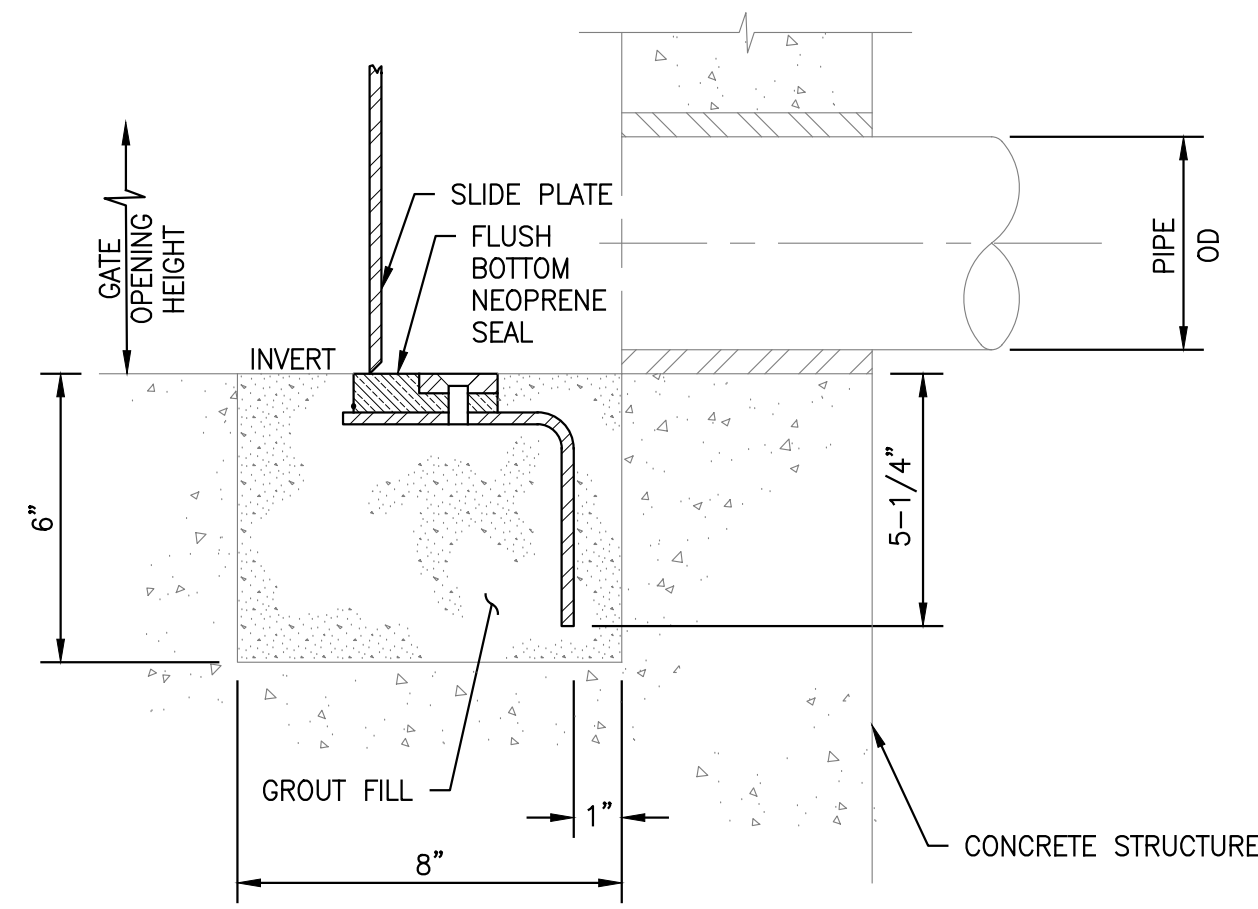


TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENTS

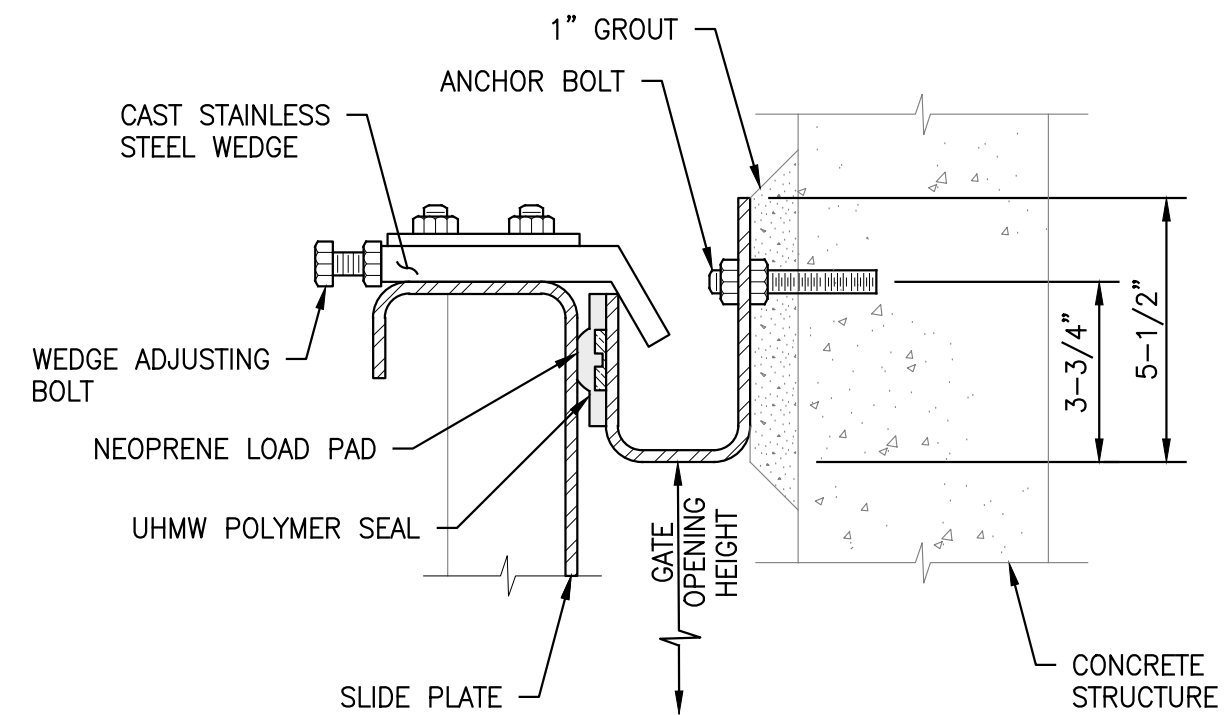
DIVERSION STRUCTURE AND BYPASS WET WELL
REINFORCING LAYOUT

M-3
SHEET
12
OF 13 SHEETS

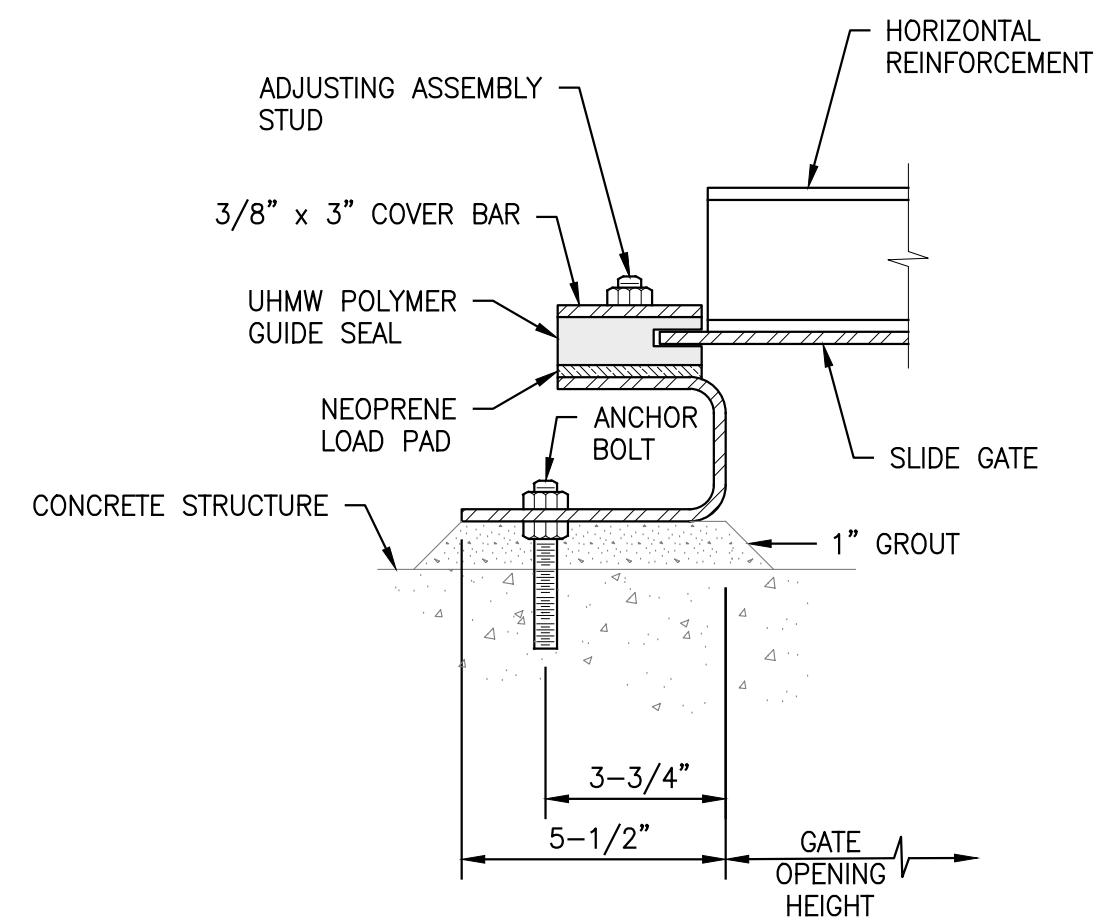
HERITAGE LIFT STATION SITE IMPROVEMENT



SLUICE GATE INVERT SECTION



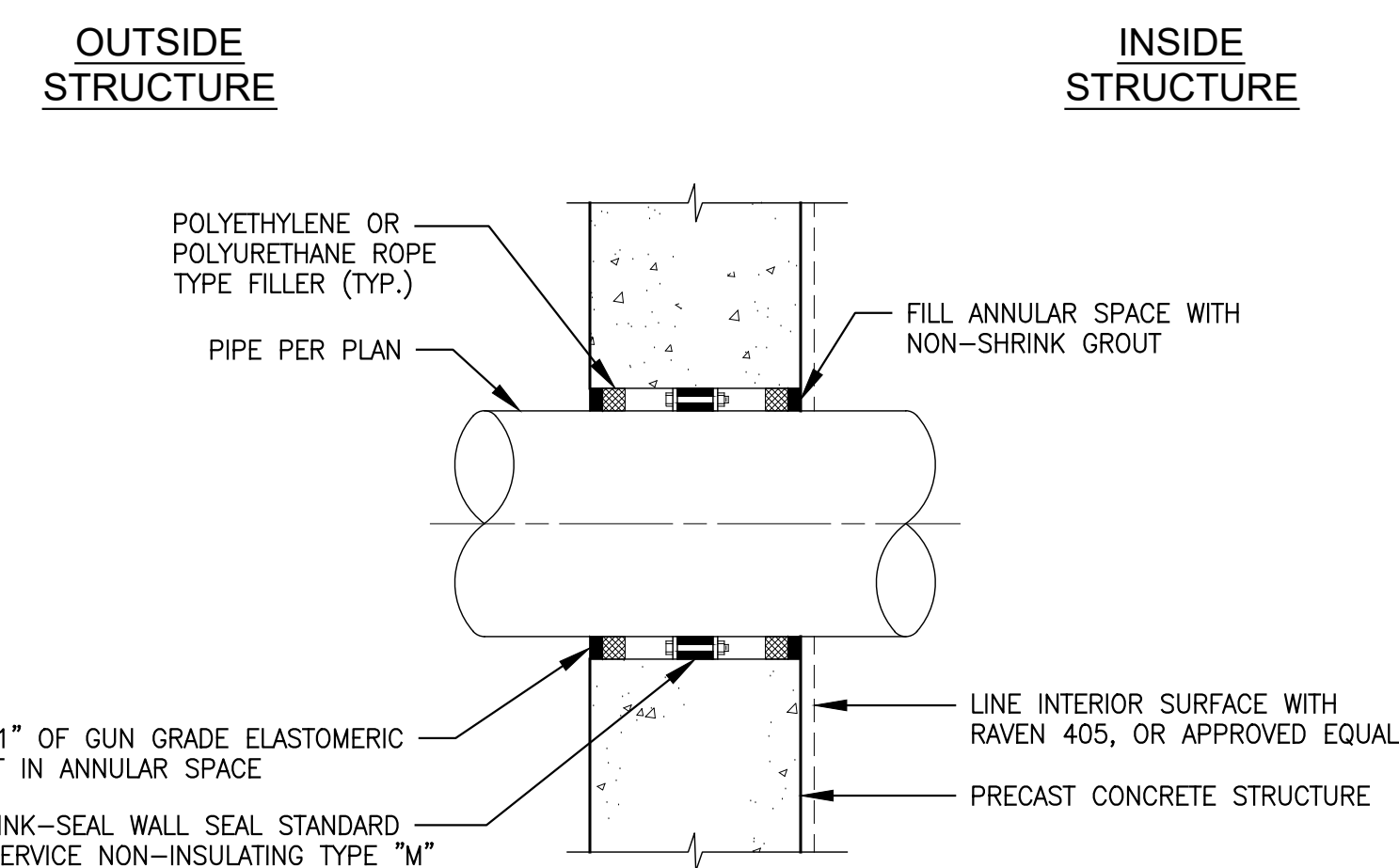
SLIDE GATE TOP SECTION



SLIDE GATE SIDE SECTION

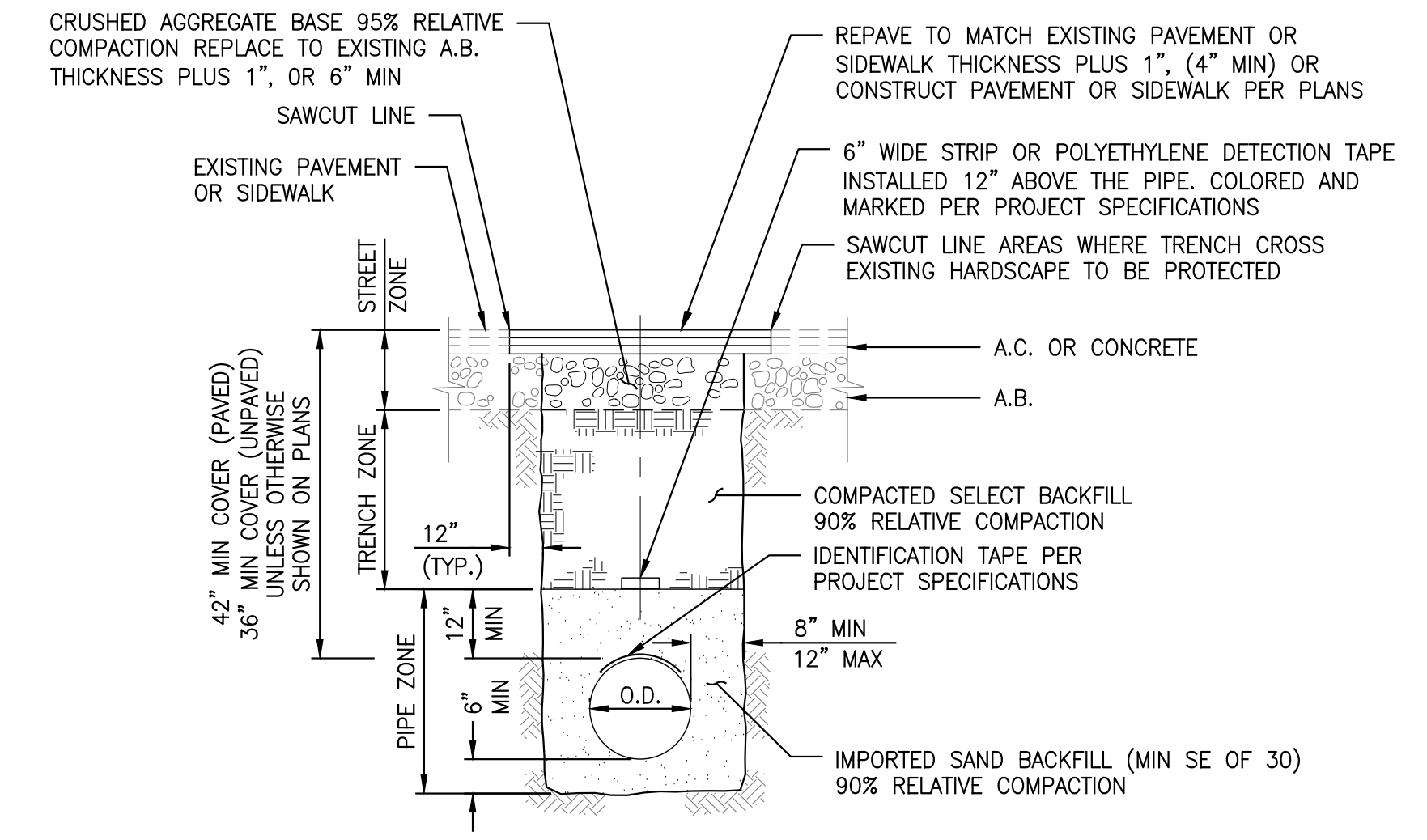
SLIDE GATE DETAILS 1

N.T.S.



WALL PENETRATION DETAIL 2

N.T.S.

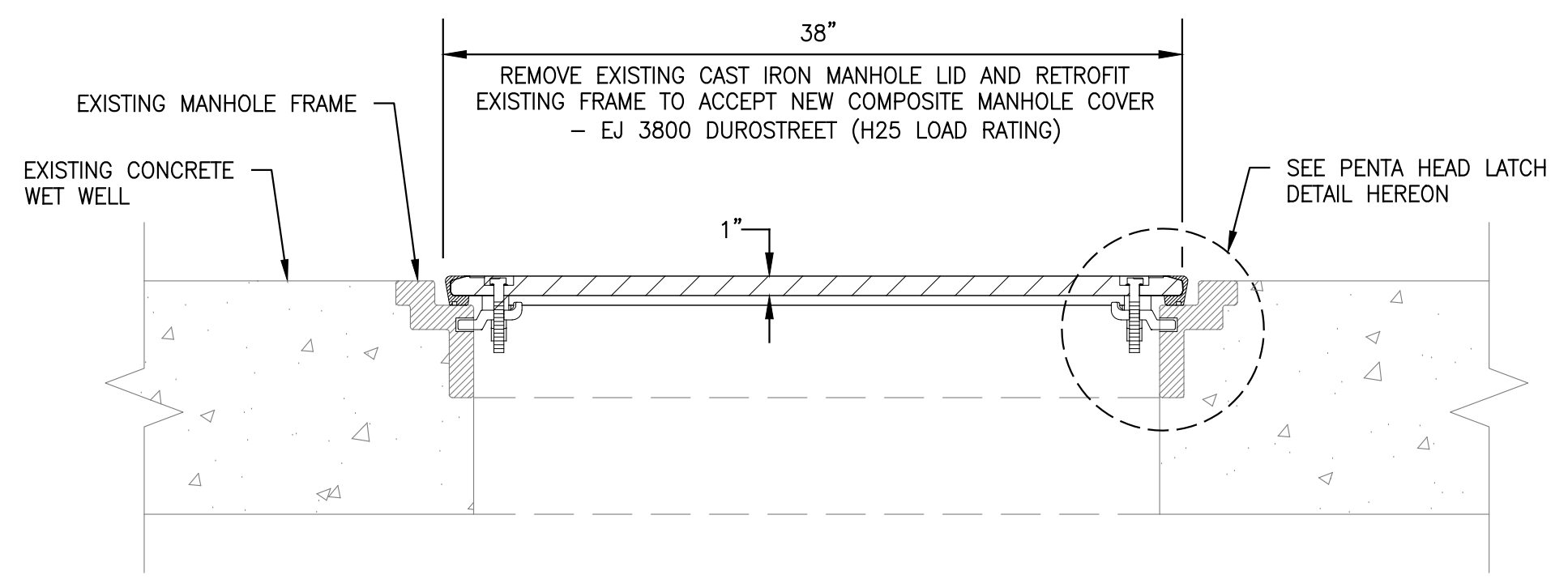


TYPICAL TRENCH SECTION 3

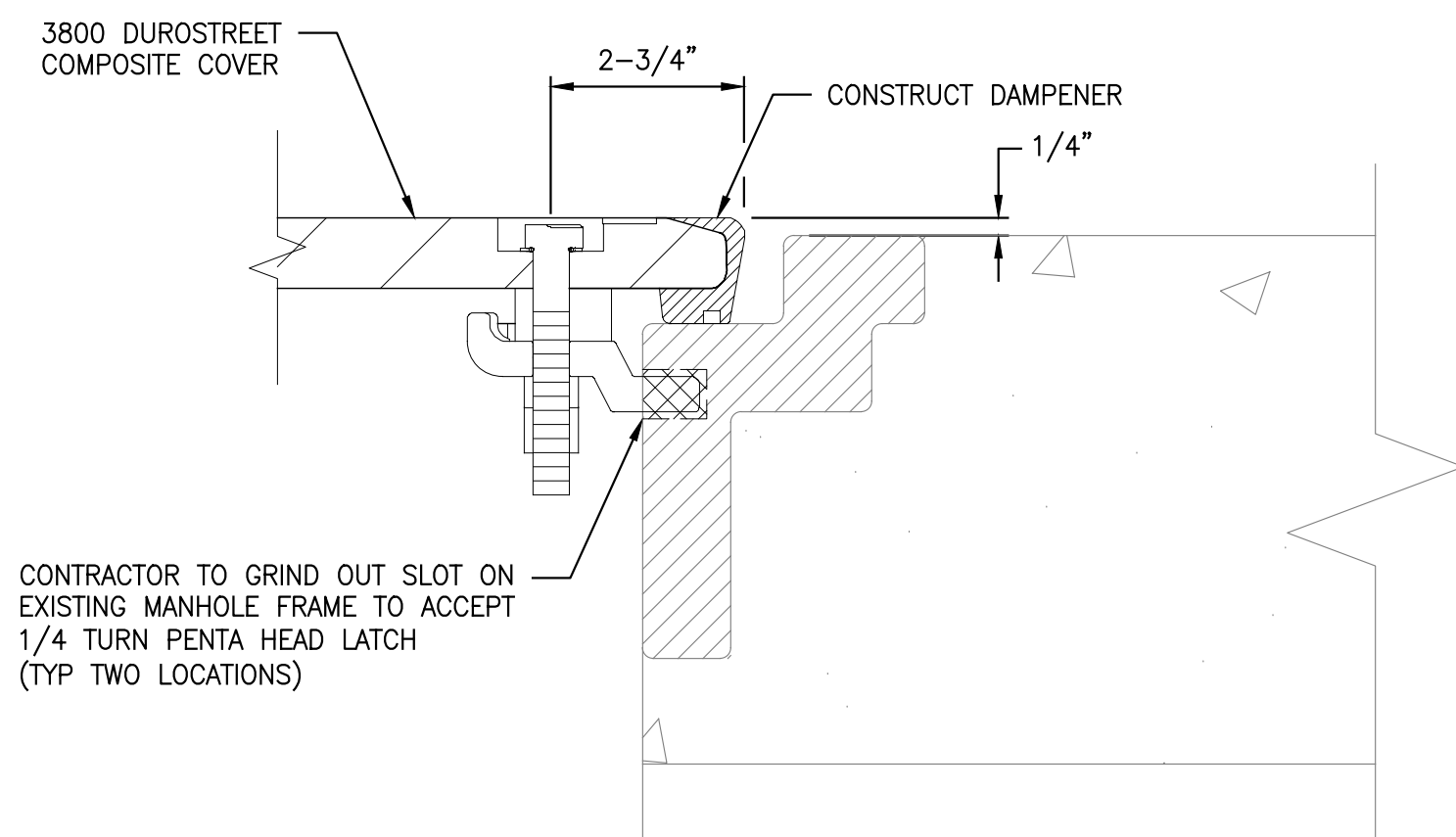
N.T.S.

NOTES

1. CONTRACTOR SHALL REPLACE AC OR PCC TO THE LIMITS SHOWN ON THE TYPICAL TRENCH SECTION SHOWN ABOVE TO THE THICKNESS PLUS 1" OF THE EXISTING AC OR PCC UNLESS OTHERWISE DIRECTED ON THE PLANS. FOR TURF OR LANDSCAPED AREAS, CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION, TO OWNER'S SATISFACTION.
2. ALL PAVEMENT AND SIDEWALK REMOVAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE SAWCUT PRIOR TO REMOVAL. THE OWNER SHALL BE REQUESTED BY CONTRACTOR TO APPROVE EXTENT OF PAVEMENT AND SIDEWALK REMOVAL PRIOR TO STARTING WORK. DISPOSAL OF REMOVED A.C. PAVEMENT AND CONCRETE SHALL BE AT AN APPROVED OFF-SITE DUMP SITE.



COMPOSITE COVER



PENTA HEAD LATCH

MANHOLE LID REHABILITATION 4

N.T.S.

CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

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A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

REV.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

DESIGN BY: M.M. & J.T.
REVIEWED BY: J.G.

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APPROVED
TRABUCO CANYON WATER DISTRICT

LORRAINE S. LAUSTEN, P.E. RCE #67027
DISTRICT ENGINEER

DATE

TRABUCO CANYON WATER DISTRICT

TRABUCO CANYON WATER DISTRICT
HERITAGE LIFT STATION SITE IMPROVEMENTS

MISCELLANEOUS DETAILS

M-4
SHEET
13
OF 13 SHEETS

Drawing Name: C:\Users\Public\Desktop\JIG\Projects\Heritage Lift Station Site Improvements\PROJECT\Design\LOAD SHEETS\C-5.dwg
 Plotter: Aug 23, 2021 - 4:45pm by: JIG CAD 2

HERITAGE LIFT STATION SITE IMPROVEMENT

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ENGINEERING MATTERS

ITEM 5: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING T-MOBILE CELLULAR SITE LEASE AMENDMENT NO. 2

Trabuco Canyon Water District (District) owns and operates two domestic water reservoirs (commonly known as the Trabuco Tanks) in the Robison Ranch community. Since approximately 2005, the District has had an onsite lease with option agreement with T-Mobile USA communications for onsite cellular equipment, and the contractual arrangement has been managed by ATS Communications (ATS) by a separate agreement with the District. Recently, District staff and legal counsel have been working with ATS to review certain terms of the site lease agreement with T-Mobile, which has resulted in a proposed Amendment No. 2. This matter is presented for Committee review and comment at this time.

FUNDING SOURCE:

Not applicable.

FISCAL IMPACT:

Potential for increased revenue due to annual rent adjustments.

ENVIRONMENTAL COMPLIANCE:

Not applicable

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting and make recommendation(s) as deemed appropriate.

EXHIBIT(S):

DRAFT Amendment No. 2 to Site Lease with Option Agreement

CONTACTS (staff responsible): PALUDI/LAUSTEN

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

AMENDMENT NO. 2 TO SITE LEASE WITH OPTION

THIS AMENDMENT NO. 2 to SITE LEASE AGREEMENT ("Amendment No. 2") is made and entered into this ____ day of _____, 2021,

BY AND BETWEEN

TRABUCO CANYON WATER DISTRICT, a public corporation, hereinafter referred to as "Landlord,"

AND

OMNIPOINT COMMUNICATIONS INC., a subsidiary of T-Mobile USA, Inc., hereinafter referred to as "Tenant."

RECITALS

A. Landlord is the owner of that certain real property legally described in Exhibit "A" commonly known as Trabuco Reservoir located at 21194 Meander Lane, Trabuco Canyon, California 92697 (Assessor's Parcel Number 125-110-022) ("Landlord's Property") related to the Site Lease with Option agreement defined in Recital B below.

B. Landlord and Tenant are parties to that certain Site Lease with Option dated December 29, 2005, as amended by that certain First Amendment to Site Lease with Option dated January 9, 2008, ("First Amendment," and collectively, the "Lease") wherein Landlord leased to Tenant a certain portion of Landlord's Property, including any applicable non-exclusive easements for access and utilities, commonly known as Highland Reservoir for uses permitted under the Lease (the "Premises").

C. Landlord and Tenant have agreed to amend the Lease in order to allow Tenant to expand the use and size of the existing Premises, and to install and operate additional equipment and associated cables on Landlord's Property, as more particularly described in this Amendment No. 2 below.

D. Landlord and Tenant have agreed to amend the Lease to revise the Rent, and make other revisions to the Lease, all as set forth more fully below.

E. Landlord and Tenant agree to enter into this Amendment No. 2 in order to set forth terms and conditions applicable to the Lease as described below.

AGREEMENT

NOW THEREFORE, in consideration of the promises and conditions set forth herein, and for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. **Incorporation of Recitals.** The Recitals set forth above are, by this reference, hereby incorporated into this Amendment No. 2 as if fully set forth in the body hereof.

TENANT SITE NAME: SC504 - MEANDER WATER TANK

TENANT SITE NUMBER: LA02963A

LANDLORD SITE NAME: TRABUCO RESERVOIR

2. **Defined Terms.** Any capitalized terms used in this Amendment No. 2 that are not defined herein shall have the meanings given those terms in the Lease. Unless the context clearly indicates otherwise, all references to the "Lease" in this Amendment No. 2 shall hereinafter be deemed to refer to the Lease as amended hereby.

3. **Premises.** Section 1 of the Lease is hereby deleted in its entirety and replaced with the following:

"Landlord owns the real property legally described in Exhibit "A" commonly known as the Trabuco Reservoir Site, with a street address of 21194 Meander Lane, Trabuco Canyon, CA 92697 (Assessor's Parcel Number 125-110-022). Subject to the following terms and conditions, Landlord leases to Tenant that portion of Landlord's Property ("Landlord's Property") only as depicted in Exhibit "B," including any applicable non-exclusive easements for access and utilities, only as depicted on Exhibit B (the "Premises")."

4. **Premises.** Section 1 (d) of the Lease is hereby added to Section 1 of the Lease:

"(d) Tenant shall submit to Landlord plans and specifications (the "Plans") for the any proposed modification of the installation (as defined in Exhibit "C," attached hereto), together with the sum of Three Thousand-Five Hundred and no/Dollars (\$3,500.00). Landlord shall have the sole right to approve the plans in writing. Landlord's approval must be given or denied within thirty (30) days after submission thereof by Tenant. In the event Landlord objects to Plans, Landlord's objections shall be clearly stated in writing. If Landlord objects to the Plans, Tenant shall have the right either resubmit the Plans in accordance with same approval process as stated above, or (b) terminate this Agreement."

5. **Additional Equipment.** Landlord consents to the installation and operation of additional equipment, and associated cables on Landlord's Property as described in Exhibit "C" and depicted in Exhibit "D" hereto. Exhibits "C" and "D," attached hereto, shall replace Exhibit "B" to the Lease in its entirety. Landlord's execution of this Amendment No. 2 will confirm Landlord's approval of Exhibits "C" and "D".

6. **Rent.** Section 4 of the Lease and Section 1 of the First Amendment are hereby amended and replaced entirely as follows:

"Tenant's monthly Rent obligations for the Premises on Landlord's Property shall be Two Thousand Five Hundred Fifty Dollars (\$2,800.00) per month, commencing on the first (1st) day of the month following the full execution of this Amendment No. 2 (the "Rent Increase Commencement Date"), and continuing thereafter during the Term of the Lease and any Renewal Term thereafter."

7. **Annual Rent Adjustment.** The second sentence of Section 5 of the Lease is hereby amended and replaced as following:

"Commencing on _____, 2021, and on January 1 of each year during the remaining Renewal Terms, if any, the Rent shall be increased annually by three percent (3%) over the Rent paid during the previous year."

TENANT SITE NAME: SC504 - MEANDER WATER TANK

TENANT SITE NUMBER: LA02963A

LANDLORD SITE NAME: TRABUCO RESERVOIR

8. **Additional Rent.** Within sixty (60) days of the Effective Date of this Second Amendment, Tenant shall pay Landlord a one-time payment of Twenty Thousand and No/100 Dollars (\$20,000.00).
9. **Improvements; Utilities; Access.** Portions of Section 7 of the Lease are amended as follows:

Section 7 (a) is hereby deleted in its entirety and replaced as follows:

“(a) **Subject to Landlord's prior review and approval**, Tenant shall have the right, at its sole cost and expense, to erect and maintain on the Premises improvements, personal property and facilities necessary to operate its communications system, including, without limitation, radio transmitting and receiving antennas, microwave dishes, equipment shelters and/or cabinets and related cables and utility lines and a location based system, including, without limitation, antenna(s), coaxial cable, base units, location based systems, and other associated equipment (collectively, the "Antenna Facilities").”

Section 7(b) is amended as follows:

“Notwithstanding the foregoing and except for Section 7(f) below, Tenant shall not install any locking mechanism of any kind on or about the Premises or any property of Landlord, including Landlord's own access system. In the event that Tenant installs any locking mechanism on Landlord's Property, the Premises, or access system, such installation shall be a material breach of this Lease subject to immediate termination of this Lease. In the alternative, Tenant shall pay to Landlord a penalty of Two Thousand Five Hundred and no/dollars (\$2,500.00) per occurrence. Tenant shall have no access to Landlord's Property, including the Premises, until payment of such penalty.”

Section 7(f) is deleted in its entirety and replaced in full with the following:

“Landlord shall provide access to Tenant, Tenant's employees, agents, contractors and subcontractors to the Premises twenty-four (24) hours a day, seven (7) days a week. Access during normal business hours (i.e., 8:00 AM to 5:00 PM, Monday through Friday, excluding holidays) shall be at no charge to Tenant. At any time other than 8:00 AM to 5:00 PM, Monday through Friday (“After-Hours”), **access shall be for emergency purposes only**. If Tenant requires access After-Hours for non-emergency purposes, Tenant shall reimburse Landlord any cost or expense reasonably associated with Tenant's After-Hour access and/or Tenant's supervised access to Landlord's water tank-top areas (“Restricted Areas”).

Tenant shall install, at no cost or expense to Landlord, a keypad lock system. Landlord shall set and re-set any associated code thereto. Tenant may request of Landlord the code for access by Tenant or any vendor, contractor, employee, agent or representative of Tenant by email **siteaccess@tcwd.com** not less than 24 hours prior to Tenant's requested access. By email Tenant shall provide the following information: (i) entity name requesting access and entity's relationship to Tenant, (ii) anticipated time, date and duration for access, and

TENANT SITE NAME: SC504 - MEANDER WATER TANK

TENANT SITE NUMBER: LA02963A

LANDLORD SITE NAME: TRABUCO RESERVOIR

(iii) a brief explanation of the scope of work; (iv) proof of insurance coverage for each and every person and/or entity; and, as applicable, (v) notification and accommodation for the use of heavy equipment such as cherry pickers or large vehicles commonly associated with construction activities, if any.”

Section 7(g) is hereby added by including the following:

“Tenant shall maintain the Premises and Tenant’s Facilities in compliance with all applicable laws, including any applicable conditions of approval referenced above or as amended. At all times throughout the Term and Renewal Term, Tenant shall maintain, repair and secure its equipment and all other personal property and improvements brought onto the Property in clean and safe condition. Tenant shall keep the Premises free of debris, graffiti, or nuisance condition. Tenant shall commence and repair the Premises or damage to Landlord’s Property to the extent caused by Tenant’s use of the Premises thereon within thirty (30) days following receipt of written request from Landlord, to ensure the Premises are safe, secure and compliant with applicable laws, rules and regulations. Notwithstanding anything to the contrary herein, if Landlord determines in its sole discretion that hazardous conditions are created by the damage, Landlord may require immediate action, or a period of less than thirty (30) days in which repairs must be completed, at Tenant’s sole cost and expense. If Landlord elects to complete repairs according to this Section 7, Tenant shall reimburse Landlord for Landlord’s associated costs within thirty (30) days of receipt of an invoice detailing such costs. Nothing herein shall require Tenant however to restore or repair any damage to the Premises caused by Landlord, or Landlord’s agents, invitees, Tenants, Tenants, contractors, subcontractors and/or employees.”

10. Termination. Section 8(g) is added by including the following:

“Tenant shall remove all Tenant’s Facilities, including, but not limited to, the Antenna Facilities, at its sole cost and expense not later than ninety (90) days after the expiration, cancellation, or termination of the Lease. Tenant shall be responsible for paying Rent until site areas are restored and Tenant shall repair or pay for any damage to Landlord’s Property caused by such removal and restore Landlord’s Property to the reasonable satisfaction of the Landlord and in a manner acceptable to the General Manager, or the General Manager’s designee.”

Section 8(h) is hereby added as follows:

“Notwithstanding anything else to the contrary in this Lease, Landlord may terminate this Lease immediately upon Tenant’s interference with any activity of Landlord, including, but not limited, to installation of a lock or locking mechanism in any way interfering with Landlord’s access to Landlord’s Property.”

11. Insurance and Subrogation and Indemnification. Section 11(a) of the Lease is deleted in its entirety and replaced in full with the following:

“(a) Tenant agrees to maintain in full force and effect a policy or policies of Commercial General Liability insurance written on ISO form CG 00 01 or its equivalent throughout the duration of the Lease. Such insurance shall be in amounts of \$2,000,000.00 per occurrence and \$5,000,000.00 general aggregate, including contractual liability. Tenant

TENANT SITE NAME: SC504 - MEANDER WATER TANK

TENANT SITE NUMBER: LA02963A

LANDLORD SITE NAME: TRABUCO RESERVOIR

also agrees to maintain in full force and effect Commercial Automobile Liability coverage in an amount of \$1,000,000.00 combined single limit, each accident, covering all owned, hired and non-owned autos. Tenant agrees to maintain Workers' Compensation insurance as required by the state in which the work or Site is located and Employer's Liability insurance with respect to all employees, if any, engaged in the performance of work on the Site in the amount of \$1,000,000 per accident for bodily injury; \$1,000,000 disease for each employee and \$1,000,000 disease-policy limit. Coverage for the Workers' Compensation and Employer's Liability must include a waiver of subrogation endorsement in favor of Landlord.

All insurance required under this Lease shall be primary and non-contributory with any insurance. Tenant shall use commercially reasonable efforts to provide at least thirty (30) days written notice to Landlord of nonrenewal or cancellation of any required coverage that is not replaced. Landlord, its directors, officers, and employees shall be included as additional insureds under Tenant's liability policies as their interests may appear under this Lease. Concurrently with the execution of this Lease, Tenant will provide Landlord with a certificate(s) verifying such insurance and the terms described herein, and a blanket additional insured endorsement and shall provide proof of continuing insurance as required herein on an annual basis thereafter in conjunction with payment of the Annual Rent Adjustment, pursuant to Section 5 of the Lease. Tenant shall use good faith efforts to the extent reasonably practical, to, in accordance with the Lease, that its contractors performing any installation of the Antenna Facilities, including modifications to the Antenna Facilities as applicable or other work on the Premises, will provide reasonable, prudent insurance coverage similar to that required of Tenant in this Section 11, in accordance with the Lease, and shall ensure that all insurance certificates and endorsements required hereunder are provided by its contractors."

12. **Notices.** Section 12 of the Lease is hereby deleted in its entirety and replaced in full with the following:

"Notices. All notices, requests, demands and other communications shall be in writing and are deemed given after deposit in the U.S. mail, certified and postage paid, or via a nationally recognized overnight courier, and shall be effective upon actual receipt or refusal as shown on the shipping receipt to the addresses set forth below. Notices will be addressed to the parties as follows:

Landlord: Trabuco Canyon Water District
32003 Dove Canyon Drive
Dove Canyon, CA 92679
Attn: General Manager
Re: Cellular Leases

With a Copy to: ATS Communications
4195 Chino Hills Parkway, #605
Chino Hills, CA 91709

Tenant: T-Mobile USA, Inc.

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

12920 SE 38th Street
Bellevue, WA 98006
Attn: Lease Compliance
Site #LA02963A

With a Copy to: Omnipoint Communications, Inc.
3 Imperial Promenade, Suite 1100
Santa Ana, CA 92707
Attn: Lease Administration Manager

Either party hereto may change the address or persons for the giving of notice to it by thirty (30) days' prior written notice to the other as provided herein."

12. **Assignment and Subleasing.** Section 15 of the Lease is hereby deleted in its entirety and replaced with the following:

"(a) This Lease shall not be assigned by Tenant, except with the prior written consent of Landlord that may be withheld for any reason in the Landlord's sole discretion.

(b) Notwithstanding the foregoing, Tenant may, without Landlord's consent but upon at least sixty (60) days prior written notice to Landlord, assign this Lease in its entirety to any entity that acquires all or substantially all of the Tenant's assets in the market as defined by the Federal Communications Commission in which the Landlord's Property is located. Any such assignment shall not be effective unless and until the assignee executes and delivers to Landlord a written assumption of all Tenant's obligations under this Lease.

(c) Sub-leasing is strictly prohibited.

(d) Any attempted or unauthorized assignment or sub-lease shall be automatically void. The acceptance of Rent by Landlord from any person other than Tenant or an authorized assignee shall not be deemed to be a waiver by Landlord of any provision hereof. Consent to one assignment by Landlord shall not be deemed consent by Landlord to any subsequent assignment."

13. **Collocation Incentive Payment.** Section 22 of the First Amendment to the Lease is hereby deleted in its entirety.

14. **Miscellaneous:**

Section 18(k) is hereby added as follows:

(k) Holdover. Tenant will have no right or privilege whatsoever to use or occupy the Premises in any manner or for any purpose after this Lease expires or terminates. If Tenant continues to use or occupy the Premises after this Lease expires or terminates, then this Lease will automatically convert to a month-to-month lease on the same terms and conditions (the "Holdover Term"), except that (1) the Rent will be automatically increased to one hundred ten percent (110%) of the Rent payable in the immediately previous year

TENANT SITE NAME: SC504 - MEANDER WATER TANK

TENANT SITE NUMBER: LA02963A

LANDLORD SITE NAME: TRABUCO RESERVOIR

(the "Holdover Fee"), and will continue to increase in accordance with Section 7 of this Second Amendment (Annual Rent Adjustment); and (2) either the Landlord or Tenant may terminate such license on thirty (30) calendar days' written notice for any or no reason. Landlord's receipt of any Holdover Fees from Tenant will not be construed to constitute Landlord's consent to such holding over by Tenant or to limit, waive, or impair, in any way, Landlord's rights or remedies under this Lease, at law or equity. Tenant shall indemnify, defend and hold harmless all Indemnified Parties from and against any loss, liability, claim, damage, cause of action, injury, cost or expense (including, without limitation, attorneys' fees and costs) arising out of, in connection with, or relating to Tenant's holding over, except to the extent arising from Landlord's gross negligence or willful misconduct. The foregoing indemnity survives termination or expiration of this Lease.

15. **Continued Effect.** Except as expressly amended hereby, all terms and conditions set forth in the Lease remain unmodified and in full force and effect. Nothing herein shall relieve Tenant of its obligation to comply with any and all applicable laws, and any approvals required to be obtained from any governmental authority having jurisdiction. Unless specified otherwise, any capitalized terms used herein shall have the same meaning prescribed to them in the Lease.

Signature Authority. The persons who have executed this Amendment No. 2 represent and warrant that they are duly authorized to execute this Amendment No. 2 in their individual or representative capacity as indicated.

IN WITNESS WHEREOF, Landlord and Tenant have executed this Amendment No. 2 to the Site Lease Agreement as of the date first written above.

LANDLORD:

TENANT:

TRABUCO CANYON WATER DISTRICT

OMNIPOINT COMMUNICATIONS INC., a subsidiary of T-Mobile USA Inc.

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Approved as to Form:

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

TCWD General Counsel

DRAFT

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

EXHIBIT "A"

LEGAL DESCRIPTION OF LANDLORD'S PROPERTY

Landlord's Property of which Premises are a part is legally described as follows:

21194 Meander Lane, Trabuco Canyon, CA 92697 (Assessor's Parcel Number 125-110-022)

DRAFT

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

EXHIBIT "B"

DEPICTION OF THE PREMISES

DRAFT

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

EXHIBIT "C"

DESCRIPTION OF FACILITIES TO BE INSTALLED

Description of Premises & Tenant's Facilities Pursuant to Site Lease with Option dated December 29, 2005, as amended by that certain First Amendment to Site Lease with Option dated January 9, 2008:

- A. One (1) equipment enclosure measuring approximately 10'-0" x 25'-0" (~250 Sq. Ft.) located within a chain-link fence.
- B. Up to four (4) equipment cabinets mounted on a raised concrete equipment pad within equipment enclosures.
- C. Up to eight (8) ~6' tank-mounted panel antennas (4 per sector, 2 sectors) mounted behind FRP screening.
- D. Two tank-mounted FRP antenna screens measuring approximately 14'-9" x 6'-8" each,
- E. One (1) tank-mounted vertical cable tray.
- F. Two (2) tank-top horizontal cable trays.
- G. Up to one (1) 2' diameter tank-mounted microwave antenna, mounted behind FRP screening.
- H. Underground conduits, cables, cable trays, wires, utility equipment and access necessary for the operation of the communications facilities.

Additions and Alterations to Premises & Tenant's Facilities by this Amendment No. 2 to include the following:

- 1) Remove tank-top cable trays.
- 2) Remove existing vertical cable tray.
- 3) Re-route horizontal cable tray at base of tank, mounted using magnetic attachments.
- 4) Install two (2) new vertical cable trays beneath antenna sectors.
- 5) Install Up to four (4) tank-mounted remote radio units (RRUS) at antenna level.
- 6) Install up to two (2) surge suppressor units at the antenna level.
- 7) Add new fiber cables within existing conduits and cable routes and within three (3) new magnetic tank-mounted vertical cable trays.
- 8) Remove and replace all epoxy/welded tank-mounted equipment with magnetic attachments.

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

EXHIBIT "D"

DEPICTION OF FACILITIES TO BE INSTALLED ON PREMISES

DRAFT

TENANT SITE NAME: SC504 - MEANDER WATER TANK
TENANT SITE NUMBER: LA02963A
LANDLORD SITE NAME: TRABUCO RESERVOIR

DRAFT

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ENGINEERING MATTERS

ITEM 6: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING THE APPROVAL OF TESCO CONTROLS EMASS PROGRAM CONTRACT

Trabuco Canyon Water District (District) contracts with TESCO Controls, Inc. (TESCO) for independent, third-party SCADA integration and other support services. TESCO provides an Extended Maintenance and System Services (EMASS) Program for the purpose of servicing Motor Control Centers (MCCs), Remote Telemetry Units (RTUs), and Control Panel (CP) Systems, including field instruments and flow meter range verification. Most of this equipment has exceeded any and all maintenance/repair warranties. This work is completed over a two-week period with the assistance of a District employee and includes the following scope of work:

Scope of Coverage

- MCC/VFD/RVSS/Pump Controls Specialized Preventative Maintenance & Support Services
- PLC/RTU/Control Panel Specialized Preventative Maintenance & Support Services
- Instrumentation Management Services
- Field Instrumentation Performance Verification

The District has contracted with TESCO for this work for the previous four years. District staff recommends contracting with TESCO for the EMASS Program for a three-year period for a not to exceed amount of \$84,000.

FUNDING SOURCE:

General Fund

FISCAL IMPACT:

\$84,000

ENVIRONMENTAL COMPLIANCE:

Not applicable

RECOMMENDED ACTION:

1. *Committee to receive information at the time of the Committee Meeting.*
2. *Recommend the Board of Directors approve the TESCO Controls proposal for the EMASS Program Service Contract (3 Years) for a not to exceed amount of \$84,000 (Action Calendar).*

EXHIBIT(S):

TESCO Controls, Inc. EMASS Program proposal

CONTACTS (staff responsible): PALUDI/PEREA/STROUD

To: Trabuco Canyon Water District

Quote Date: 4/13//21

Attn: Jason Stroud

Quote No.: 21D105Q01

Re: Annual Extended Maintenance and System Services (EMASS) Proposal

ANNUAL SERVICE CONTRACT PACKAGE
(Service Period: October 1, 2021 to September 30, 2022)

This proposal is offering an Extended Maintenance and System Service (EMASS) contract package to provide support services for Trabuco Canyon Water District’s Water and Wastewater sites’ Motor Control Centers (MCC), Remote Telemetry Units (RTU) and Control Panels (CP) Systems. The service contract shall provide a maximum of two (2) working weeks for two (2) Tesco’s EMASS Service representatives to perform prescheduled preventive maintenance service visits including field instruments functional verifications. EMASS services will be scheduled approximately 3-4 weeks prior to required work. Additional work provided above and beyond the contract allowance will be provided at the contract’s reduced rates on a time-and-material basis.

With this agreement, **when paid in full at the beginning of the service term**, the signee is entitled to reduced rates, priority response, and emergency service available 24 hours a day, 7 days a week, 365 days a year. These rates and terms are identified under the “Standard Professional Services Rates for Time and Material Services” section as included herein.

Scope of Coverage

The following identifies the scope of coverage related to support, service, and covered equipment/systems as part of this Service Contract Package.

Item	Description
1	<p>MCC / VFD / RVSS / Pump Controls Specialized Preventative Maintenance & Support Services: TESCO shall provide site visits to perform specialized preventative maintenance, including system inspection, verification, and equipment cleaning. These services will be prescheduled and performed annually onsite, and include:</p> <ul style="list-style-type: none"> ▪ Exterior and Interior checks of the cabinet paint condition, door operations, seals and gaskets, checks of door mounted controls and switches, and exterior mounted generator receptacle check if applicable. ▪ Vacuum of dust and debris inside the cabinet ▪ Visually inspect connections ▪ Check for moisture intrusion ▪ Check for rodent/insect intrusion ▪ Check ventilation fans for proper operation and clean filters as needed ▪ Check for loose connections and signs of overheating ▪ Check current and voltage output ▪ Confirm motor Drive ventilation clearances have not been obstructed ▪ Confirm motor Drive paneling and covers are in place and properly closed <p>Sites/Equipment Covered: The above-listed support service applies to the following sites/equipment:</p>
2	<p>PLC / RTU / Control Panel Specialized Preventative Maintenance & Support Services: TESCO shall provide site visits to perform specialized preventative maintenance, including system inspection, verification, and equipment cleaning. These services will be prescheduled and performed</p>

Item	Description
	<p>annually onsite, and include:</p> <ul style="list-style-type: none"> ▪ Exterior and Interior checks of the cabinet paint condition, door operations, seals and gaskets, and checks of door mounted controls and switches. ▪ Vacuum of dust and debris inside the cabinet ▪ Check for moisture intrusion ▪ Check for rodent/insect intrusion ▪ Check fan and heater functional performance ▪ Visually inspect battery backup and UPS ▪ Verify Controller’s power supply voltage ▪ Check and verify PLC processor and I/O Modules connections ▪ Check for excessive heat and loose connections ▪ Check telemetry equipment cabling and connections ▪ Seat terminal blocks and all relays <p>Sites/Equipment Covered: The above-listed support service applies to the following sites/equipment:</p> <ul style="list-style-type: none"> ▪ Wastewater Treatment Plant ▪ Dove Canyon Filter Plant ▪ Blower Building ▪ CL2 Building ▪ Dove Lake site ▪ Belt Press Building ▪ Equal Basin site ▪ Shadow Rock Lift station ▪ Plano Trabuco Lift station ▪ The Oaks Lift station ▪ Heritage Lift station ▪ Portola Basin Lift station ▪ O’Neil Park Lift station ▪ El Toro Lift station ▪ Santiago Lift station ▪ Via Alegre Lift station ▪ Golf Club Lift station ▪ Bell Canyon Lift station ▪ Dove Creek Lift station ▪ Tick Creek Lift station ▪ Digester Site ▪ Barneburg Lift station ▪ Harris Grade Tanks site ▪ Joplin Tanks site ▪ Reservoir # 1 ▪ Dove Canyon Tank site ▪ Trabuco Tanks site ▪ Robinson Ranch Pump station ▪ Falcon Pump station ▪ Ridge Line Pump station ▪ Topanga Pump station ▪ Canada Filter Plant
3	<p>Instrumentation Management Services:</p> <ul style="list-style-type: none"> ▪ Provide EMASS service representative(s) to perform annual instruments functional performance

Item	Description
	<p>verification services for field instruments.</p> <ul style="list-style-type: none"> ▪ Annual instruments onsite verification. Functional verification services include test solutions necessary to verify performance of instruments. (Please note that instruments must be identified prior to scheduling service for proper preparation of service, such as procurement of calibration solutions, etc.). ▪ Performance diagnostics, battery checks and loop checks. ▪ Verify instruments output at the SCADA computer when applicable. ▪ Provide performance verification certification stickers for instruments verified. ▪ Note: <i>Responsibility of the Owner is to provide safe access to instruments located in designated as "Confined Space Entry" areas and instruments located at higher reach.</i> <p>Field instruments to be performance verified; flow meter range verification of inputs and outputs:</p> <p>Instruments Covered to be performance verified:</p> <ul style="list-style-type: none"> ▪ Five (5) Rosemount Differential Pressure Transmitters ▪ One (1) Rosemount Level Indicating Transmitter ▪ One (1) Siemens Flow meter ▪ Seven (7) Flow meters at Dimension WTP ▪ Six (6) Flow meters at Robinson Ranch WWTP ▪ One (1) Flow meter at Tick Creek facility ▪ One (1) Flow meter at Dove Creek facility ▪ One (1) Flow meter at Shadow Rock detention basin site
TOTAL ANNUAL COST:	\$28,000.00
OPTIONAL THREE (3) YEAR TOTAL SERVICE COST:	\$84,000.00

Additional Services

Additional services which are not included within the Service Contract coverages (as defined above) are available and can be administered through this contract. Such services are offered at TESCO's "standard rates" per the rate scheduled included herein, which will accrue against the included Allowance or billed separately on a Time-&-material (T&M) basis. These services will be subject to the service provisions defined herein and scheduled accordingly. Service and support may include any of the following disciplines/items as needed to fulfill the additional service requests.

- **Field Service Technician** – to provide field support and services, including, but not limited to: instrumentation troubleshooting, calibration, and loop testing; electrical control modifications; Infrared Thermal Image Scan(s) for verifying/identifying poor connections, resistive "hot spots", and potentially failing equipment, control system troubleshooting; motor control support services (e.g. VFD's, RVSS's, Pump Control Panels, etc.) and communication system service.
- **PLC Programmer** – to provide PLC programming support and services as needed, including, but not limited to: troubleshooting, program modifications, OIT programming services, and training.
- **SCADA Programmer** – to provide SCADA support and services as needed, including, but not limited to: software troubleshooting; support services for system tags, database, telemetry/communications, alarming systems, reporting, and graphics support; networking support; programming modifications; and training. **(Note: Latest SCADA system software updates should be available while under terms of the contract)**
- **Engineer** – to provide engineering and consulting support and services related to electrical control and system engineering, including, but not limited to: electrical control system assessment, tracing, engineering, and as-built drawings; control system operations engineering; system documentation; and training.
- Materials, travel, expenses, and/or third party services will be billed separately. Any material required shall be approved by owner/customer prior to procurement.

Rate Schedule

The following rate schedule identifies the Professional Services offered by Tesco Controls, Inc for Technical Support Services only. Please note that this rate schedule is not intended for use with Task Orders or project scopes of work, which shall be administered separately from this Service and Support Contract (TESCO can negotiate and quote these separate work efforts, as needed). This rate schedule applies to the services and support covered by this Service Contract per the applicable rate category, as well as, the additional services that are rendered for ancillary support effort (which is performed per the standard rates and provisions defined below).

The following are Tesco's current professional service rates for year **2020** including the escalation rate schedule for service type and category. The rates shown below include the direct hourly rate only and do not include expenses related to business travel, ME&I costs, per diem, or other miscellaneous fees. If needed, please consult with Tesco representative for travel-loaded rates which are evaluated case-by-case upon request.

Professional Services	Standard Rate	Premium Services	Emergency Services	Service Contracts
Factory Repairs	\$110	\$120	\$150	\$95
Administrative Support	\$105	\$115	\$145	\$90
Engineering Support	\$105	\$115	\$145	\$90
Drafter/Designer	\$125	\$135	\$185	\$110
Engineer/Designer (Electrical, Controls)	\$145	\$155	\$215	\$125
Project Engineer	\$155	\$165	\$235	\$145
Senior Project Engineer	\$170	\$185	\$245	\$145
Project Manager	\$165	\$175	\$235	\$145
Senior Project Manager	\$185	\$195	\$245	\$155
PLC Applications Programmer	\$155	\$165	\$235	\$145
Senior PLC Applications Programmer	\$170	\$185	\$245	\$145
SCADA Applications Programmer	\$155	\$165	\$235	\$145
Senior SCADA Applications Programmer	\$170	\$185	\$245	\$145
Field Service Engineer/Specialist	\$155	\$165	\$235	\$145
Senior Field Service Engineer	\$170	\$185	\$245	\$150
Network/Communications Engineer	\$165	\$185	\$250	\$150
Senior System Architect	\$200	\$215	\$265	\$185

Service Rate Categories

The following define the service types identified in the above listed rate categories:

Standard Service Rate – These rates apply to standard scope and task order activities that are under Tesco's scheduling and resource planning control. Standard rates are reserved for negotiated, planned, and well-defined/specified scopes of work where standard approach methodologies for executing work activities apply. These rates may also apply to specialized preventative maintenance services. These rates do not apply to open-ended tasks or time-&-material (T&M) work orders requiring premium technical/engineering services (please refer to Premium Service Rates); the Standard Service Rate category apply to standard 'project/product delivery' work. Please consult with Tesco representative for applicable service rate.

Premium Service Rate – These rates apply to open-ended tasks and time-&-material (T&M) work activities where the scope of work is not well-defined requiring a non-standard approach to scope management and resource planning. Such activities require higher-level disciplines for engineering task discovery in defining scope of work

requirements on an as-needed basis. These rates may also apply to scope and task order activities that require premium technical services, such as engineering assessments, engineering surveys/studies, integration activities, troubleshooting, and T&M support services. These rates do not apply to urgent, expedited, or emergency service where the rendering of services are subject to deadlines or schedules that compress or interrupt other prescheduled activities or project work (please refer to Emergency Service Rates). Please consult with Tesco representative for applicable service rate.

Emergency Service Rate – These rates apply to tasks, work activities, and/or services that are rendered where personnel and resources need to be expedited and do not follow Tesco’s standard methodology for scheduling work. Such services may impact other work activities or other project work, and may require rescheduling of resources to accommodate an expedited schedule. These rates may also apply to services that need to be rendered after normal business hours, whether provided as technical phone support or onsite technical support. Please note that any onsite technical support or activity rendered as an Emergency Service Rate may be subject to additional surcharges as follows:

Emergency Onsite Service Surcharges

Mobilization surcharges are applied to each emergency call/request that results in onsite activities being rendered under the Emergency Service Rate classification as defined above. These surcharges do not apply to phone support or remote VPN access support services. The following surcharges are applied to the mobilization of onsite services based on operating business hours.

<i>After-Normal Business Hours, On-Call Onsite Support.....</i>	<i>\$950 per incident</i>
<i>During Normal Business Hours, On-Call Onsite Support.....</i>	<i>\$650 per incident</i>

After-hours service requests are managed through Tesco’s 24/7 On-Call Support Program and facilitated through Tesco’s call center and dispatched to on-call personnel. Please note that the utilization of Emergency Service Rates do not constitute an Emergency On-Call & Technical Support Service Contract or guarantee a level-of-service/response-time stipulated by those contracts. Please contact Tesco for a customized EMASS, Support, and/or On-Call Emergency Service Contract which is structured and quoted on support needs and on a system-by-system basis. Although Emergency Services are expedited and scheduled promptly, mobilization is subject to availability and resource rescheduling lead-times. Please consult with Tesco representative for applicable service rate.

Service Contract Rate – These rates apply to work, tasks, and scopes identified by a Tesco Service Contract. Service Contracts can include bundled packages for Extended Maintenance And System Services (EMASS) contracts, Technical Support Service contracts, and On-Call Emergency Service contracts. Eligibility of these rates are only available through an active and pre-paid Tesco Service Contract which are subject to the terms and conditions stipulated by the respective Service Contract language. These rates do not apply to Open Purchase Orders, Time-&-Material (T&M) service requests, or premium Professional Services / Consulting Agreements. Please consult with Tesco representative for additional information and details related to Service Contracts.

Please consult with a Tesco representative for applicable service rates.

Rendering Services

Upon contracting into an agreement with Tesco Controls, Inc. (i.e. Retainer Agreement, Service Contract, or Professional Services/Consulting Agreement), these indicated rates shall be valid for the agreed contract period. Services rendered will be provided on a Time-and-Material accrual basis; which may be estimated in advance with a specified Task Order and/or defined scope of activity(ies). The hours accrued for rendered services will be recorded and only those incurred hours will be billed against the service/contract agreement in addition to the cost of expenses, travel, per diem, ME&I costs, fees, expenditures, and any preauthorized hardware/material provided. Please refer to the Time-and-Material service provisions and the terms and conditions noted herein.

Service Provisions

Please note the following service provisions:

- Normal working hours are Monday through Friday, 8:00 a.m. to 5:00 p.m. Overtime at one and one-half the standard rate is billed for services outside the normal working hours, excluding weekends and holidays.
- Saturday working hours are billed at two times the standard rates.
- Sunday working hours are billed at three times the standard rates.
- Holiday working hours are billed at three times the standard rates.
- The above rates are billed two-hour minimum and in half-hour increments per activity/mobilization.
- Portal-to-portal travel time is billed at the indicated hourly rate, plus \$0.69 per mile.
- Hardware components are billed at cost plus 20% overhead/procurement expenditures and 15% margin (delivery is subject to manufacturer availability). Sales tax will be applied as appropriate.
- Actual travel expenses (airfare, ground transportation, lodging, meals, etc.) are billed at cost plus 20% overhead/administration.
- Authorized third party services will be billed separately at cost plus 20% overhead/subcontract administration and 15% margin (delivery is subject to service provider availability).
- Please note: The above listed rates and referenced disciplines are for technical and professional services only, which do not include any trade installation, trade work, or trade labor.

Clarifications

The liability of Tesco Controls, Inc. under this Extended Maintenance and System Services agreement shall be limited to the reasonable value of the labor and services to be performed hereunder. Tesco Controls, Inc. agrees to provide the services referenced herein, but does not assume any liability or responsibility for damages caused by a failure of the parts or components referenced herein or the loss of any data. Tesco Controls, Inc. shall not be obligated under this agreement to provide an extension of the manufacturer's warranty for any component referenced herein.

Tesco Controls, Inc. shall not be obligated under this agreement to provide services or repair damage caused by fire, explosion, vandalism, theft, act of God, misuse or abuse of equipment/components; such equipment may not be serviceable and may need to be replaced. Nor will Tesco Controls, Inc. be liable for damage caused by unsupervised relocation, repair, or modifications to the equipment/components not performed by Tesco Controls, Inc. (or previously authorized by Tesco Controls, Inc. if such equipment is covered by the "covered components of this agreement"). Please note the following service provisions:

Terms and Conditions

- Contract will be covered 1 year from date of acceptance.
- TESCO carries liability insurance, with full workman's compensation coverage.
- Terms are net 30 days on approved credit accounts.
- Interest will be applied to all past due invoices.

Contract Acknowledgement

The undersigned acknowledges that they have read and understand the above Service Contract offering:

Trabuco Canyon Water District

Company/Agency

Tesco Controls, Inc.

Company/Agency

Name, Title

Name, Title

Signature

Signature

Date

Date

Proposal prepared by:

TESCO CONTROLS, INC.

Tony Vaynshteyn
EMASS Coordinator
tvaynshteyn@tescocontrols.com

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

ENGINEERING MATTERS

ITEM 7: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Master Plan and Condition Assessment Update
2. Bell Canyon Sewer Lift Station Improvement Project
3. Saddleback Meadows Development
4. Saddlecrest Development
5. Other Projects

RECOMMENDED ACTION:

Committee to receive project status updates at time of the Committee Meeting.

EXHIBIT(S):

Bell Canyon Lift Station Revised Gate Drawing

CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN



EAST ELEVATION

SCALE: 1/4" = 1'-0"



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 www.jigconsultants.com

TRABUCO CANYON WATER DISTRICT
BELL CANYON SEWER LIFT STATION REHABILITATION
PROJECT NO. 1920-022

BELL CANYON LIFT STATION
HOA EXHIBIT

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

OPERATIONAL MATTERS

ITEM 8: WATER SYSTEM UPDATES

The following is a brief report of the water system for **August 2021**.

Projects and Repairs

1. Water Operations staff continued to work with Superior Tank and their subcontractors on the construction of the Backwash Recovery Tank.
2. Water Operations staff replaced a Cla-val distributor on Booster Pump #1 at the Falcon Pump Station in the Canyon Community.
3. Water Operations staff converted a hydrant from a Wet Barrel to Dry Barrel at the end of Atkinson Lane in the Canyon Community.
4. Water Operations staff painted all steel piping at the Trabuco Creek Ground Water Treatment Facility.
5. Water Operations staff started a new cycle of the Dead-End Flushing Program.

Monthly Water System Operations Summary

The Monthly Water System Operations Summary is attached for the Committee's review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

Monthly Water System Operations Summary

CONTACTS (staff responsible): PALUDI/KESSLER

**TRABUCO CANYON WATER DISTRICT
MONTHLY WATER SYSTEM OPERATIONS SUMMARY**

2021													
DIMENSION WTP													
	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
SAC METER AC/FT	160	125	75	176	214	136	0						
BACKWASH AC/FT	4	4	2.0	6	5	3	0						
FLUSHWATER AC/FT	7	6	3.0	9	9	4	0						
WTP EFFLUENT AC/FT	175	124	83	176	213	132	0						
Wells													
TRABUCO CREEK GWTF	0	0	0	0	0	0	0						
US WELL AC/FT	0	0	0	0	0	0	0						
AMP WATER													
SMWD AC/FT	0.12	2	8	0	0	51	122						
IRWD AC/FT	0	12.4	53.4	10	0	51	137						
TOTAL SUPPLY													
AC/FT	175	138	145	186	213	234	259						
CFS DAILY AVERAGE	2.8	2.5	2.3	3.1	3.4	3.9	4.2						
AC/FT PER DAY	5.6	5.0	4.6	6.2	6.9	7.8	8.4						
OPERATIONS in GAL.													
WTP DOMESTIC	32,239	27,377	29,845	35,380	41,215	23,936	0						
WWTP DOM	17,354	18,176	8,751	7,629	10,322	7,232	7,884						
OPERATIONS (AF)													
SUPPLEMENT TO RW	0	0	0	0	0	0	0						
LOSSES in GAL.													
FLUSHING (gal.)	0	0	0	0	0	0	0						
SEWER CLEANING (gal.)	5,000	5,000	5,000	5,000	5,000	5,000	5,000						
LINE BREAKS (gal.)	100,000	24,000	200,000	50,000	0	0	0						
SYSTEM DEMAND **													
CFS DAILY AVERAGE	2.8	2.5	2.3	3.0	3.4	3.9	4.1						
AC/FT PER DAY	5.6	5.0	4.6	6.2	6.9	7.8	8.4						
RESERVOIR STORAGE													
MONTHLY AVG (MG)	9.0	8.8	8.4	8.1	8.0	8.6	8.7						
DAYS OF STORAGE	4	3	3	3	3	3	3						
ZONES (AF)													
RIDGELINE PS	127	107	73	127	199	124	0						
EL TORO P.S.	18	20	53	10	0	51	137						
TOPANGA	2	2	2	3	4	4	4						
FALCON	0.3	0.2	2.4	0.7	0.7	0.7	1.2						
ROSE PRV/ OAKS	1	1	1	Inop.	Inop.	Inop.	1						
CANYON CREEK	0.1	0.2	0.2	0.3	0.4	0.3	0.5						
ROSE P.S.	0.3	0.3	0.2	0.2	0.2	0.2	0.3						
ROBINSON RANCH	31	31	34	53	63	72	68						
DOVE CANYON	61	54	62	75	84	86	95						
PORTOLA HILLS	11	10	10	11	12	13	15						

* Usage estimated new meter installed

** Excludes Operational use, losses, and supplement to Recycled Water Reservoir (RW)

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

**OPERATIONAL MATTERS
ITEM 9: WASTEWATER SYSTEM UPDATES**

The following is a brief report of the wastewater system for **August 2021**.

Projects and Repairs

Wastewater Operations staff performed and/or completed the following tasks and projects:

1. Worked with Maintenance Department staff to replace Sequencing Batch Reactor (SBR) waste valve limit switches Robinson Ranch Wastewater Treatment Plant (WWTP).
2. Worked with Maintenance Department staff on the WWTP Headworks Screening equipment.
3. Worked with Brightview Landscape Services to complete weed abatement and grubbing at WWTP Reservoir Dam Face (consistent with DSOD recommendations) and Shadow Rock Detention Basin Facility.
4. Worked with TESCO Controls, Inc. on WWTP SCADA System Improvements.
5. Worked with Hydrotech Electric to complete WWTP aeration system electrical conduit improvements.

Sewer System Management Plan (SSMP) Report

The purpose of the program is to communicate on a regular basis with the public on the development, implementation, and performance of TCWD's SSMP. Status updates on the work and type of work performed on the sewer system will be provided, including sewer line and manhole cleaning, system repairs, lift station cleaning, and updates from satellite facilities:

Sewer System Management Plan (SSMP) Monthly Update	
Total Sewer Line, Feet*	210,495
Total Sewer Line Cleaned (Ft) – Month	10,500
Total Sewer Line Cleaned (Ft) – Cleaning Cycle	205,759
Cleaning Cycle Period (Mos.)	18
Total Sewer Line Cleaned, %	98%
The Oaks at Trabuco – Pumping Frequency for the Month	9
O’Neill Park Sewer System Status	Ok
O’Neill Park Sewer System Repairs	None
SSMP Quarterly Report – <i>Next Quarterly Report</i>	3Q 2021
SSMP Program Audit – <i>Next Audit Report**</i>	January 2022

**This amount includes the OC Parks-owned O’Neill Park sewer system the District is contracted to clean.*

***Periodic internal audits shall be conducted, at a minimum every two years, with reports kept on file. The audit shall focus on evaluating the effectiveness of the SSMP and TCWD’s compliance with the mandatory elements of TCWD’s SSMP:*

Monthly Recycled Water System Operations Summary

The Monthly Recycled Water System Operations Summary is attached for the Committee’s review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

1. Monthly Recycled Water System Operations Summary

CONTACTS (staff responsible): PALUDI/PEREA/ULLOA

TRABUCO CANYON WATER DISTRICT | NON-DOMESTIC WATER SYSTEM SUMMARY - 2021

RECYCLED WATER SUPPLY															
	MAX	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
WWTP Reclaimed Water Production, AF	78.3	50.6	43.9	52.8	42.8	46.2	44.1	47.0						327.4	550.04
Reclaimed Reservoir Level, FT	1274.5	1,266.0	1,268.5	1,270.8	1,268.9	1,268.2	1,264.0	1,255.2						-	-
Reclaimed Reservoir Free Board, FT	25.5	8.5	6.0	3.7	5.6	6.3	10.5	19.3						-	-
Reclaimed Reservoir Storage, AF	145.5	96.4	112.5	125.2	115.4	110.4	87.5	51.6						-	-
Supplemental Domestic Water Added, AF	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0	72.88

RECYCLED WATER SYSTEM DEMAND															
NON DOMESTIC WATER USER	ALLOC. AF	8% JAN	17% FEB	25% MAR	33% APR	42% MAY	50% JUN	58% JUL	67% AUG	75% SEP	83% OCT	92% NOV	100% DEC	TOTAL	ALLOC. %
Dahlia Court	8.2	0.2	0.2	0.2	0.3	0.3	0.3	0.1						1.7	20%
Dove Canyon Golf Course	106.7	6.6	7.1	10.6	25.6	37.2	42.2	55.2						184.5	173%
Dove Canyon Master Association	279.3	5.5	5.7	7.1	16.1	22.3	30.4	31.1						118.2	42%
Robinson Ranch	80.2	0.9	1.3	1.3	2.4	4.1	4.9	4.7						19.6	24%
Trabuco Highlands	159.7	3.7	3.0	2.1	6.6	8.8	10.0	11.8						45.9	29%
City of RSM	0.1	0.00	0.00	0.00	0.30	0.01	0.01	0.02						0.33	256%
Construction Water	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0	N/A
Sakaida Nursery	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0%
SMWD	N/A	0.0	0.0	0.0	6.6	2.8	2.2	1.0						12.6	N/A
TY Nursery	17.9	0.0	5.8	4.0	6.2	0.0	0.0	0.0						16.1	90%
TOTAL, AF	653.2	16.8	23.1	25.3	64.1	75.6	90.0	104.0						398.9	61%
PERCENTAGE OF NDW ALLOCATION/YEAR		3%	6%	10%	20%	31%	45%	61%							
TOTAL ANNUAL AVG. NDW AVAILABLE**	774.36														

URBAN RUNOFF CAPTURE AND REUSE															
DISTRICT FACILITY		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
Shadow Rock Detention Basin Production		0.04	0.01	0.05	0.01	0.01	0.01	0.01						0.14	21.22
Dove Tick Creek Production*	<i>Dry Season</i>	0.0	0.0	0.0	7.0	6.8	5.3	4.5						23.6	102.7
	TCWD Portion	0.0	0.0	0.0	3.5	3.4	2.7	2.2						11.8	-
	SMWD Portion	0.0	0.0	0.0	3.5	3.4	2.7	2.2						11.8	-
Dove Lake Water Pumped		0.0	0.0	0.0	11.3	28.5	20.0	24.0						83.8	201.7
Dove Lake Free Board, Ft		5.6	5.3	3.2	4.1	5.9	7.2	9.0						-	-
Dove Lake Storage		128.0	131.5	166.4	158.1	117.2	107.0	79.0						-	-
Total Rainfall, In.		1.7	0.0	1.2	0.0	0.0	0.0	0.0						2.9	14.5

* SMWD share of Dove/Tick Pump Station Dry Season Water is 50% of production.

** Based on 5-Year Average Reclaimed Water Reservoir Base Supply & Recycled Water Production

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

OPERATIONAL MATTERS

ITEM 10: MAINTENANCE DEPARTMENT UPDATES

The following is a brief report of the wastewater system for **August 2021**.

Projects and Repairs

1. Maintenance Department staff worked with TESCO Controls on the SCADA upgrades.
2. Maintenance Department staff scheduled the delivery of a new Toyota forklift, and upcoming training opportunity for District staff.
3. Maintenance Department staff worked with Hydrotech Electric on the conduit repairs and electrical upgrades at the Robinson Ranch Wastewater Treatment Plant.
4. Maintenance Department staff have installed fire extinguisher in the Districts fleet vehicles.
5. Maintenance Department staff finalized a quote and procurement of the new surge tank for the El Toro Sewer Lift Station.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

None

CONTACTS (staff responsible): PALUDI/STROUD

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | SEPTEMBER 1, 2021**

**REGULATORY AND OTHER MATTERS
ITEM 11: OTHER MATTERS/REPORTS**

Other Matters/Reports from the General Manager and/or District staff may be provided at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Hear Other Matters/Reports that may have arisen after the posting of the agenda.

EXHIBITS

None

CONTACTS (staff responsible): PALUDI