



## AGENDA

# EAST ORANGE COUNTY WATER DISTRICT ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, March 21, 2024 at 4:30 P.M.  
185 N. McPherson Road, Orange, California

1. Call meeting to order
2. Public communications to the Committee
3. Additional items arising after posting of agenda

### Informational Items

4. RZ System Status, Well Levels, and Water Use - Handout
5. WZ System Status and Water Use - Handout
6. Sewer System Status and Permit Reports
7. Capital Projects Status
8. Sharon Lane Lift Station

### Action Items

9. District Headquarters Building Furniture Vendor Selection
10. East Well Electrical Construction Award
11. Adjournment

Members of the public shall be permitted to speak as to both agendized and non-agendized items, as reflected in the agenda. Those wishing to speak may submit a speaker request or by verbally indicating their desire to comment at the time the item is called. Additionally, members of the public may, but are not required to, e-mail comments to Sylvia Prado at [sprado@eocwd.com](mailto:sprado@eocwd.com) up to 30 minutes before the Committee meeting, and such comments shall be provided to the Committee. Members of the public wishing to attend the meeting that require disability-related or other reasonable modifications or accommodation to facilitate such attendance should contact Ms. Prado at (714) 538-5815 or the e-mail provided as soon as feasible before the meeting to make such request.

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 East Orange County Water District Engineering & Operations Committee in connection with a matter subject to discussion or consideration at an open meeting of the Engineering & Operations Committee are available for public inspection in the District's office, 185 McPherson Road, Orange, California ("District Office"). If such writings are distributed to members of the Committee less than 72 hours prior to the meeting, they will be available via phone or email request to Ms. Sylvia Prado at (714) 538-5815 or [sprado@eocwd.com](mailto:sprado@eocwd.com).

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: RETAIL ZONE SYSTEM STATUS, WELL LEVELS, AND WATER USE**  
**DATE: MARCH 21, 2024**

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## Background

This memo serves as cover for the water use and well reports. The RZ Water Use Report and the Well Pumping and Static Water Level Report will be handed out at the meeting.

## Recommendation

Informational

Attachment(s) None

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: WHOLESALE ZONE WATER USE REPORT**  
**DATE: MARCH 21, 2024**

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## Background

This memo serves as cover for the Wholesale Zone water demand and imported water report. The Wholesale Zone Water Demand and Imported Water Delivery Balance Report will be handed out at the meeting.

## Recommendation

Informational

Attachment(s) None

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: SEWER SYSTEM STATUS AND PERMIT REPORT**  
**DATE: MARCH 21, 2024**

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## Background

There were no sewer spills in November, December, or January. There was a sewer spill in February on Barrett Lane due to debris in the line. The monthly Permit Reports for November, December, January and February are attached.

## Recommendation

Informational

Attachment(s) Permit Reports



**November 2023 - Permits**

Connection Address	Type of Development	Permit No	APN	Date Issued	Sewer				Wholesale Zone	Retail Zone	Total
					Regional CFCC (OCSD) Fees	Local Sewer Capacity Fees	Inspection	Total Sewer			
18101 E. Santa Clara Ave. Santa Ana, CA 92705	ADU (N)	23-058	395-344-09	11/28/2023	\$ 1,112.27	\$ 3,246.58	\$ 800.00	\$ 5,158.85	\$ 550.80	\$ -	\$ 5,709.65
350 Pasadena Ave. Tustin, CA 92780	ADU	23-081	401-543-16	11/28/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2151 la Cuesta Dr. Santa Ana, CA 92705	Septic & ADU (N)	23-084	502-333-05	11/30/2023	\$ 6,403.59	\$ 13,289.83	\$ 800.00	\$ 20,493.42	\$ 456.68	\$ -	\$ 20,950.10
13972 Sandhurst Pl. Santa Ana, CA 92705	WZ Upsize	WZ2023-111	395-481-27	11/6/2023	\$ -	\$ -	\$ -	\$ -	\$ 719.00	\$ -	\$ 719.00
14162 Carfax Ave. Tustin, CA 92780	ADU (N)	23-091	432-065-07	11/9/2023	\$ 598.46	\$ 1,995.79	\$ -	\$ 2,594.25	\$ 719.00	\$ -	\$ 3,313.25
14212 Debusk Ln. Tustin, CA 92780	ADU	23-092	432-071-02	11/17/2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Totals</b>					<b>\$ 8,114.32</b>	<b>\$ 18,532.20</b>	<b>\$ 1,600.00</b>	<b>\$ 28,246.52</b>	<b>\$ 2,445.48</b>	<b>\$ -</b>	<b>\$ 30,692.00</b>

**November 2023 - In the Pipeline**

Connection Address	Type of Development	Permit No	APN	Permit Status
16791 McFadden Ave. Tustin, CA 92780	Commercial	22-097	402-301-08	Pending customer payment and signature
168 N. A St. Tustin, CA 92780	ADU (N)	23-055	401-522-20	Pending revised plans
1362 Tiki Cir. Tustin, CA 92780	ADU (N)	23-057	500-122-24	Pending customer payment and signature
4725 E. Chapman Ave. Orange, CA 92869	Commercial (N)	23-061	383-272-04	Pending customer payment and signature
12932 Rosalind Dr. Santa Ana, CA 92705	SFR	23-067	094-344-22	Pending customer revised plan
10675 Equestrian Dr. Santa Ana, CA 92705	SFR (R)	23-070	503-201-05	Pending customer payment and signature
1065 Bonita, Tustin, CA 92780	WZ Upsize	WZ2023-072	500-152-06	Pending customer payment and signature
12221 Circula Panorma, Santa Ana, CA	ADU (N) JADU (N)	23-077	094-212-06	Pending customer payment and signature
17742 Linda Ln. Santa Ana, CA 92705	SFR (R)	23-082	395-283-03	Pending customer payment and signature
1131 Foothill Blvd. Santa Ana, CA 92705	Septic to Sewer	23-085	502-252-12	Pending customer payment and signature
13371 Diamond Head Dr. Tustin, CA 92780	ADU (N)	23-088	103-523-08	Pending customer response
9662 Ravenscroft Rd. Santa Ana, CA 92705	SFR (R)	23-090	503-662-20	Pending customer response

R - Remodel  
N - New  
E - Existing

**December 2023 - Permits**

Connection Address	Type of Development	Permit No	APN	Date Issued	Sewer				Wholesale Zone	Retail Zone	Total
					Regional CFCC (OCSD) Fees	Local Sewer Capacity Fees	Inspection	Total Sewer			
1370 San Juan, Tustin, CA 92780	ADU (N)	23-075	932-621-87	12/15/2023	\$ 1,951.29	\$ -	\$ -	\$ 1,951.29	\$ 469.13	\$ -	\$ 2,420.42
1131 Foothill Blvd. Santa Ana, CA 92705	Septic to Sewer	23-085	502-252-12	12/14/2023	\$ 7,949.00	\$ -	\$ -	\$ 7,949.00	\$ -	\$ -	\$ 7,949.00
1031 Charwood Ln. Santa Ana, CA 92705	ADU (N)	23-097	502-101-31	12/20/2023	\$ 935.55	\$ -	\$ -	\$ 935.55	\$ -	\$ -	\$ 935.55
365 W. 6th St. Tustin, CA 92780	SFR (R)	23-099	401-372-22	12/22/2023	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00
<b>Totals</b>					<b>\$ 11,922.84</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 11,922.84</b>	<b>\$ 469.13</b>	<b>\$ -</b>	<b>\$ 12,391.97</b>

**December 2023 - In the Pipeline**

16791 McFadden Ave. Tustin, CA 92780	Commercial	22-097	402-301-08	Pending customer payment and signature
4725 E. Chapman Ave. Orange, CA 92869	Commercial (N)	23-061	383-272-04	Pending customer payment and signature
12932 Rosalind Dr. Santa Ana, CA 92705	SFR (R)	23-067	094-344-22	Pending revised plans
10675 Equestrian Dr. Santa Ana, CA 92705	Pending customer pa	23-070	503-201-05	Pending customer payment and signature
1065 Bonita, Tustin, CA 92780	WZ Upsize	WZ2023-072	500-152-06	Pending customer payment and signature
12221 Circula Panorma, Santa Ana, CA	ADU (N) JADU (N)	23-077	094-212-06	Pending customer payment and signature
17742 Linda Ln. Santa Ana, CA 92705	SFR (R)	23-082	395-283-03	Pending customer payment and signature
1131 Foothill Blvd. Santa Ana, CA 92705	Septic to Sewer	23-085	502-252-12	Pending customer payment and signature
13371 Diamond Head Dr. Tustin, CA 92780	ADU (N)	23-088	103-523-08	Pending customer reponse
9662 Ravenscroft Rd. Santa Ana, CA 92705	SFR (R)	23-090	503-662-20	Pending customer reponse
365 W. 6th St. Tustin, CA 92780	SFR (R)	23-099	401-372-22	Pending customer payment and signature
14081 Carfax Ave. Tustin, CA 92780	WZ New Meter	WZ2023-120	432-063-15	Pending cuaveomer payment and signature
18691 & 18693 E. Center Ave. Orange, CA	ADU (N)	23-100	093-103-20	Pending customer payment and signature
13301 Eton Pl. & 13297 Eton Pl. Santa Ana	ADU (N)	23-101	395-063-02	Pending customer payment and signature
1131 Timberline Ln. Santa Ana, CA 92705	SFR (R)	23-102	503-561-49	Pending customer payment and signature
1992 Racquet Hill, Santa Ana, CA 92705	SFR (R) ADU (N)	23-103	502-194-21	Pending customer payment and signature
10392 Shadyridge Dr. Santa Ana, CA 92705	SFR (R)	23-104	503-101-01	Pending customer payment and signature

R - Remodel  
N - New  
E - Existing

**January 2024 - Permits**

Connection Address	Type of Development	Permit No	APN	Date Issued	Sewer				Wholesale Zone	Retail Zone	Total
					Regional CFCC (OCS D) Fees	Local Sewer Capacity Fees	Inspection	Total Sewer			
168 N. A St. Tustin, CA 92780	ADU (N)	23-055	401-522-20	1/5/2024	\$ 1,139.00	\$ 5,990.17	\$ -	\$ 7,129.17	\$ 609.87	\$ -	\$ 7,739.04
18932 E. Center Ave. Orange, CA 92869	SFR (R)	23-093	383-271-19	1/17/2024	\$ 50.00	\$ -	\$ -	\$ 50.00	\$ -	\$ -	\$ 50.00
13401 Eton Pl. Santa Ana, CA 92705	SFR (R)	23-094	395-063-07	1/26/2024	\$ 1,143.00	\$ -	\$ -	\$ 1,143.00	\$ -	\$ -	\$ 1,143.00
18691 E. Center Ave. Orange, CA 92869	ADU (N)	23-100	093-103-20	1/17/2024	\$ 250.00	\$ -	\$ -	\$ 250.00	\$ -	\$ -	\$ 250.00
13301 Eton Pl. Santa Ana, CA 92705	ADU (N)	23-101	395-063-02	1/4/2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1992 Racquet Hill, Santa Ana, CA 92705	SFR (R) ADU (N)	23-103	502-194-21	1/4/2024	\$ 1,003.86	\$ 2,440.14	\$ -	\$ 3,444.00	\$ 413.98	\$ -	\$ 3,857.98
11961 & 11955 Woodlawn Ave. Santa Ana, CA	ADU (N)	23-105	502-154-11	1/8/2024	\$ 1,170.18	\$ 3,585.76	\$ 800.00	\$ 5,555.94	\$ 365.07	\$ -	\$ 5,921.01
1921 Jan Marie Pl. Tustin, CA 92780	SFR (R)	23-106	500-074-06	1/5/2024	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00
13092 Eton Pl. Santa Ana, CA 92705	SFR (R)	24-002	395-602-33	1/22/2024	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00
13672 Yellowstone Dr. Santa Ana, CA 92705	SFR (R)	24-006	395-382-08	1/31/2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1122 Saint Regis Pl. Santa Ana, CA 92705	SFR (R)	24-007	502-061-09	1/20/2024	\$ 1,143.00	\$ -	\$ -	\$ 1,143.00	\$ -	\$ -	\$ 1,143.00
<b>Totals</b>					<b>\$ 8,073.04</b>	<b>\$ 12,016.07</b>	<b>\$ 800.00</b>	<b>\$ 20,889.11</b>	<b>\$ 1,388.92</b>	<b>\$ -</b>	<b>\$ 22,278.03</b>

**January 2024 - In the Pipeline**

Connection Address	Type of Development	Permit No	APN	Permit Status
16791 McFadden Ave. Tustin, CA 92780	Commercial	22-097	402-301-08	Pending customer payment and signature
1362 Tiki Cir. Tustin, CA 92780	ADU (N)	23-057	500-122-24	Pending customer payment and signature
4725 E. Chapman Ave. Orange, CA 92869	Commercial (N)	23-061	383-272-04	Pending customer payment and signature
12932 Rosalind Dr. Santa Ana, CA 92705	SFR	23-067	094-344-22	Pending customer revised plan
10675 Equestrian Dr. Santa Ana, CA 92705	SFR (R)	23-070	503-201-05	Pending customer payment and signature
12221 Circula Panorma, Santa Ana, CA 92705	ADU (N) JADU (N)	23-077	094-212-06	Pending customer payment and signature
17742 Linda Ln. Santa Ana, CA 92705	SFR (R)	23-082	395-283-03	Pending customer payment and signature
13371 Diamond Head Dr, Tustin, CA 92780	ADU (N)	23-088	103-523-08	Pending customer response
9662 Ravenscroft Rd. Santa Ana, CA 92705	SFR (R)	23-090	503-662-20	Pending customer response
12558 La Bella Dr. Santa Ana, CA 92705	ADU (N)	23-096	103-177-03	Pending submittal of plans
1202 Lucinda Way, Tustin, CA 92780	ADU (N)	23-098	502-042-04	Pending submittal of plans
10392 Shadyridge Dr. Santa Ana, CA	SFR (R)	23-104	503-101-01	Pending customer payment and signature
11955 & 11961 Woodlawn Ave. Santa Ana	ADU (N)	23-105	502-154-11	Pending customer payment and signature
140 & 142 N. Hewes Ave. Orange, CA 92869	SFR (N)	23-107	093-114-31	Pending revised plans
1665 Garland Ave. Tustin, CA 92780	SFR (R)	24-001	395-191-19	Pending customer response
13672 & 13674 Green Valley Dr. Tustin 92780	ADU (N)	24-003	500-082-06	Pending customer payment and signature
18921 Dodge Ave. Santa Ana, CA 92705	SFR (R)	24-004	395-511-26	Pending customer payment and signature
12062 Woodlawn Ave. Santa Ana, CA 92705	SFR (R)	24-005	502-122-10	Pending customer payment and signature
7 La Rama Dr. Santa Ana, CA 92705	ADU (N)	24-008	502-432-05	Pending revised plans
1351 Faren Dr. Santa Ana, CA 92705	SFR (R) ADU (N)	24-009	502-282-01	Pending customer payment and signature
12292 Woodlawn Ave. Tustin, CA 92780	SFR (R)	24-010	103-154-32	Pending customer response
11751 Highview Dr. Santa Ana, CA 92780	ADU (N)	24-011	104-611-24	Pending revised plans

R - Remodel  
 N - New  
 E - Existing

**February 2024 - Permits**

Connection Address	Type of Development	Permit No	APN	Date Issued	Sewer				Wholesale Zone	Retail Zone	Total
					Regional CFCC (OCS D) Fees	Local Sewer Capacity Fees	Inspection	Total Sewer			
168 N. A St. Tustin, CA 92780	ADU (N)	WZ2023-054A	401-522-20	2/27/2024	\$ -	\$ -	\$ -	\$ -	\$ 469.13	\$ -	\$ 469.13
13672 & 13674 Green Valley Dr. Tustin	ADU (N)	24-003	500-082-06	2/13/2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1351 Faren Dr. Santa Ana, CA 92705	SFR (R) ADU (N)	24-009	502-282-01	2/12/2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12292 Woodlawn Ave. Tustin, CA 92780	SFR (R)	24-010	103-154-32	2/22/2024	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00	\$ -	\$ -	\$ 1,087.00
13522 Malena Dr. Tustin, CA 92780	SFR (R)	24-016	395-271-02	2/24/2024	\$ 2,230.00	\$ -	\$ -	\$ 2,230.00	\$ -	\$ -	\$ 2,230.00
<b>Totals</b>					<b>\$ 3,317.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,317.00</b>	<b>\$ 469.13</b>	<b>\$ -</b>	<b>\$ 3,786.13</b>

**February 2024 - In the Pipeline**

Connection Address	Type of Development	Permit No	APN	Permit Status
16791 McFadden Ave. Tustin, CA 92780	Commercial	22-097	402-301-08	Pending customer payment and signature
168 N. A St. Tustin, CA 92780	ADU (N)	23-055	401-522-20	Pending revised plans
1362 Tiki Cir. Tustin, CA 92780	ADU (N)	23-057	500-122-24	Pending customer payment and signature
4725 E. Chapman Ave. Orange, CA 92869	Commercial (N)	23-061	383-272-04	Pending customer payment and signature
12932 Rosalind Dr. Santa Ana, CA 92705	SFR	23-067	094-344-22	Pending customer revised plan
10675 Equestrian Dr. Santa Ana, CA 92705	SFR (R)	23-070	503-201-05	Pending customer payment and signature
1065 Bonita, Tustin, CA 92780	WZ Upsize	WZ2023-072	500-152-06	Pending customer payment and signature
12221 Circula Panorma, Santa Ana, CA	ADU (N) JADU (N)	23-077	094-212-06	Pending customer payment and signature
17742 Linda Ln. Santa Ana, CA 92705	SFR (R)	23-082	395-283-03	Pending customer payment and signature
13371 Diamond Head Dr. Tustin, CA 92780	ADU (N)	23-088	103-523-08	Pending customer response
9662 Ravenscroft Rd. Santa Ana, CA 92705	SFR (R)	23-090	503-662-20	Pending customer response
13401 Eton Pl. Santa Ana, CA 92705	SFR (R)	23-094	395-063-07	Pending customer payment and signature
12558 La Bella Dr. Santa Ana, CA 92705	ADU (N)	23-096	103-177-03	Pending submittal of plans
1202 Lucinda Way, Tustin, CA 92780	ADU (N)	23-098	502-042-04	Pending submittal of plans
18691 & 18693 E. Center Ave. Orange, CA	ADU (N)	23-100	093-103-20	Pending customer payment and signature
10392 Shadyridge Dr. Santa Ana, CA 92705	SFR (R)	23-104	503-101-01	Pending customer payment and signature
11955 & 11961 Woodlawn Ave. Santa Ana	ADU (N)	23-105	502-154-11	Pending customer payment and signature
140 & 142 N. Hewes Ave. Orange, CA	SFR (N)	23-107	093-114-31	Pending revised plans
1665 Garland Ave. Tustin, CA 92780	SFR (R)	24-001	395-191-19	Pending customer response
18921 Dodge Ave. Santa Ana, CA 92705	SFR (R)	24-004	395-511-26	Pending customer payment and signature
12062 Woodlawn Ave. Santa Ana, CA	SFR (R)	24-005	502-122-10	Pending customer payment and signature
1351 Faren Dr. Santa Ana, CA 92705	SFR (R) ADU (N)	24-009	502-282-01	Pending customer response
12292 Woodlawn Ave. Tustin, CA 92780	SFR (R)	24-010	103-154-32	Pending customer payment and signature
11751 Highview Dr. Santa Ana, CA 92780	ADU (N)	24-011	104-611-24	Pending customer payment and signature
14192 Yorba St. Tustin, CA 92780	SFR (N)	24-012	401-231-38	Pending customer response
13002 Marshall Ln., Tustin, CA 92780	ADU (N)	24-014	395-191-54	Pending customer payment and signature
18921 Fairhaven Ext. Santa Ana, CA 92705	SFR (N)	24-019	393-011-33	Pending customer payment and signature
12071 Sandwood Ln. Santa Ana, CA 92705	ADU (N)	24-020	502-291-28	Pending customer payment and signature
1412 Kenneth Dr. Tustin, CA 92705	SFR (R)	24-022	103-341-15	Pending customer response
1462 Kenneth Dr. Tustin, CA 92705	ADU (N)	24-023	103-341-18	Pending customer response

R - Remodel  
N - New  
E - Existing

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: CAPITAL PROJECTS STATUS**  
**DATE: MARCH 21, 2024**

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## Background

Staff will present information to the Committee regarding Capital Improvement Project status.

## Recommendation

Informational

Attachment(s): Capital Project Budget to Actual  
Presentation

# CAPITAL PROJECTS BUDGET TO ACTUAL

	Project Number	Project Budget	TOTAL Project Expenditures 01/31/2024	Grants and Reimbursements	FY 23-24 ADOPTED BUDGET
<b>SHARED PROJECTS</b>					
District Headquarters	22-33	\$ 8,700,000	\$ 6,158,214		\$ 7,499,900
Financial Software and Implementation	22-01	\$ 90,000	53,366		90,000
SCADA System Improvements	21-45	\$ 885,000 *	463,826 *		700,000
GIS Server	24-06	\$ 35,100	32,268		35,100
Skid Steer Attachment	24-12	\$ 15,000	-		15,000
Hazard Mitigation Plan	24-11	\$ 25,000	-		25,000
Water Loss Control Program	24-13	\$ 60,000	-		60,000
Valve Replacements	21-02	\$ 130,000	4,573		130,000
Pipeline Replacements	21-03	\$ 250,000	-		250,000
Hydrant Replacements	22-45	\$ 40,000	-		40,000
Service Lateral Replacements	22-48	\$ 50,000	-		50,000
<b>WHOLESALE ONLY</b>					
Walnut Vault Replacement	21-43	1,500,000	1,487,421	\$ (250,000)	200,000
6MG Reservoir - Pipeline and Vault Improvements	23-07	300,000	83,457		300,000
6MG Reservoir Replacement	22-34	100,000	90,521		100,000
Demo Treatment Plant and new storage at 6MG site	23-05	430,000	416,052		300,000
Cathodic Protection Improvements	23-03	225,000	24,689		225,000
Wholesale Reservoir Backup Generators	22-51	100,000	10,120		100,000
SAC Pipeline Repairs	21-50	10,000	-		10,000
Wholesale Reservoir Management Systems	24-07	100,000	-		100,000
Master Plan Update - Wholesale	24-01	150,000	-		150,000
<b>RETAIL ONLY</b>					
Vanderwerff Well	21-06	5,200,000	4,748,839	\$ (2,075,140)	1,344,400
PFAS Treatment Facility	21-05	180,000	282,940	\$ (209,104)	10,000
Vista Panorama Reservoir Replacement	21-01	800,000	229,310		800,000
Barrett Reservoir Booster Pump Station Replacement	21-04	1,720,000	1,521,548		100,000
Circula Panorama Pipeline Replacement / Conversion	22-40	5,150,000	257,520		3,000,000
Brae Glen Pipeline Replacement	21-11	700,000	70,120		700,000
Orange Knoll PRV Station	22-18	150,000	29,620		150,000
East Well Pump and Motor	22-28	200,000	-		200,000
East Well Electrical	22-29	150,000	-		150,000
Barrett and Hinton Service Relocations	22-31	100,000	-		100,000
View Ridge New Valve	22-30	15,000	-		15,000
Springwood Drive Pipeline Improvement	21-09	100,000	-		100,000
Daniger Pump Station Upgrades	24-08	75,000	-		75,000
St. Jude/Panorama View Pipeline	24-09	50,000	2,988		50,000
Barrett to Cresthaven Pipeline Replacement	24-10	75,000	-		75,000
Master Plan Update - Wholesale	24-02	150,000	-		150,000
<b>SEWER ONLY</b>					
Browning Rehabilitation	21-20	16,935,000	15,868,304		550,000
Manhole Additions, Raising, Frames & Covers (include Cured in Place Pipe (CIPP)	21-18	500,000	396,225		500,000
Manhole Rehabilitation/Replacement	21-13	300,000	29,626		300,000
Manhole Rehabilitation/Replacement	21-17	100,000	18,000		100,000
Backwater Valve Program	21-21	10,000	-		10,000
Lemon Heights Dr. Lift Station Rehabilitation	24-04	50,000	-		50,000
Rehabilitate 12" 5 FWY Crossing	24-05	100,000	-		100,000
SSMP Update and Spill Response	24-03	130,000	-		130,000
<b>TOTALS</b>		<b>\$ 46,135,100</b>	<b>\$ 32,279,547</b>		<b>\$ 19,139,400</b>

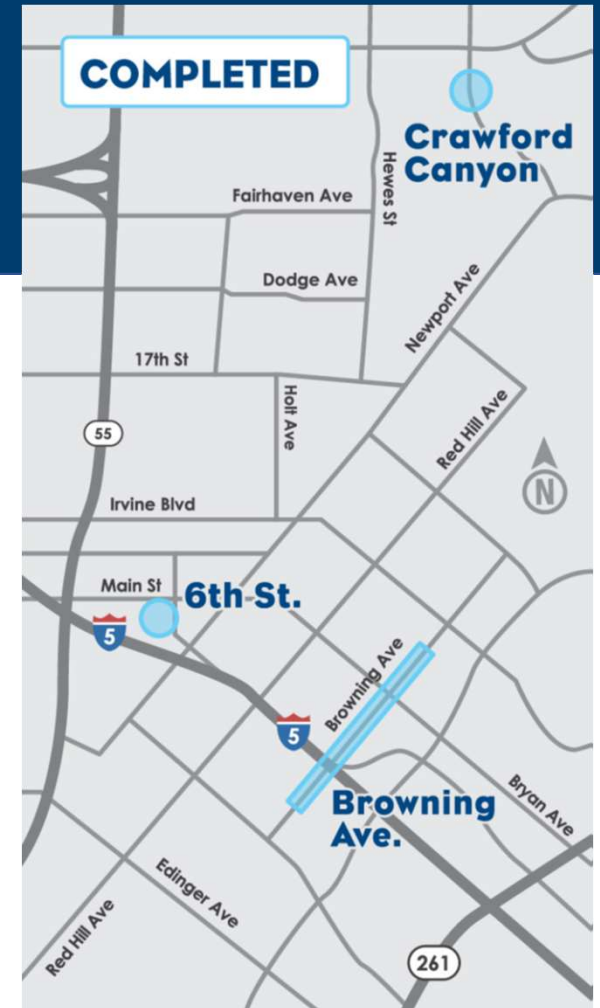
\*Phase 2

# CAPITAL IMPROVEMENT STATUS REPORT OF SELECT PROJECTS



# ID1 CRA PROJECT

- This project replaced and upsized sewer mains at multiple locations.
- Financial
  - Budget - \$16.9M
  - Actual - \$15.9M
- Current Status
  - Complete





# DISTRICT HEADQUARTERS REPLACEMENT

- This project constructs the District Headquarters Building and site improvements
- Financial
  - Budget - \$8.7M
  - Actual - \$6.2M
- Current Status
  - The building is 90% complete
- Next Steps
  - Furniture delivery expected early-April
  - Move-in expected late-April
- Project Schedule
  - Completion expected in June (exc. generator)
- Impacts
  - Long lead time on backup generator (Nov.)



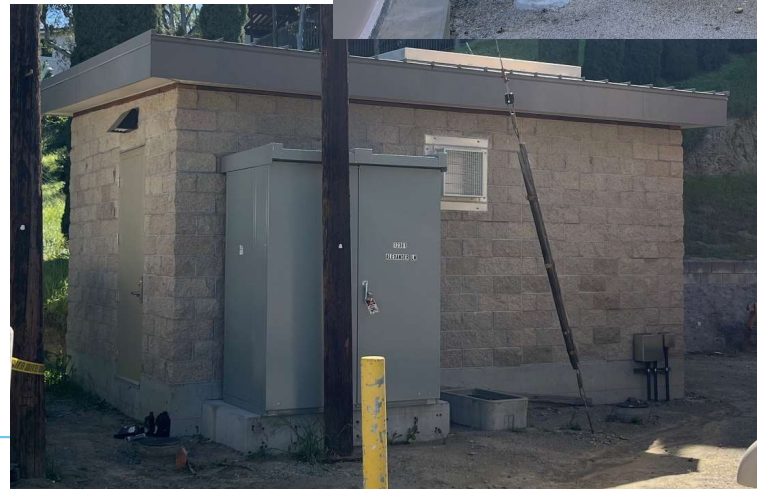
# VANDERWERFF WELL AND PFAS TREATMENT PLANT (OCWD)

- This project constructs the VanderWerff Well and PFAS Treatment plant.
- Financial
  - VanderWerff Well: Budget - \$5.2M  
Actual - \$4.8M
  - PFAS Treatment Plant: Budget \$8.9M (OCWD)
- Current Status
  - The well and treatment plant are 100% complete
  - Commissioning is underway
- Next Steps
  - Filling IX tanks with media week of March 18
- Project Schedule
  - Expect April 2024 in service
- Impacts
  - Material delays
  - SCE delays
  - SCADA integrator delays



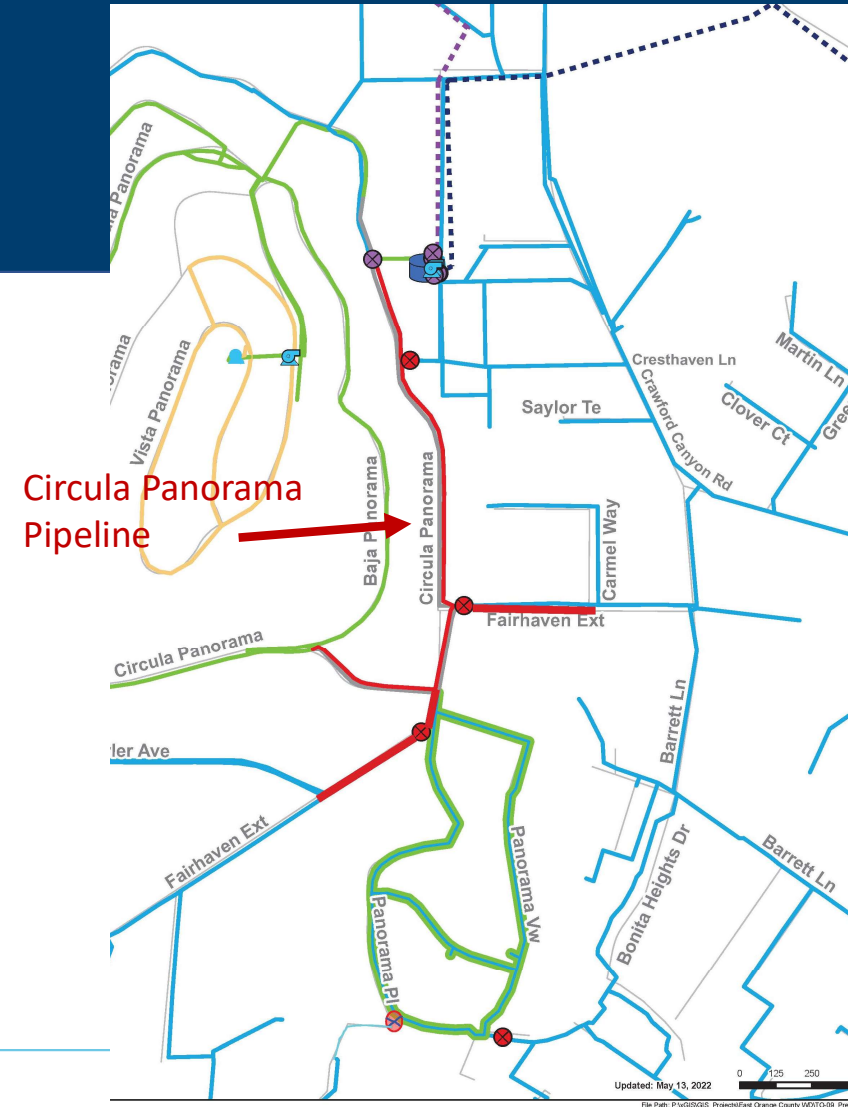
# BARRETT PUMP STATION REPLACEMENT

- This project replaced the existing Barrett Pump Station.
- Financial
  - Budget - \$1.7M
  - Actual - \$1.5M
- Current Status
  - The project is 95% complete
  - Commissioning of the pump station is underway
- Next Steps
  - Transfer from temp SCE power panel to perm.
  - Complete site work
- Project Schedule
  - Expect April 2024 in service
- Impacts
  - Material delays
  - SCE Delays
  - SCADA Integrator Delays



# CIRCULA PANORAMA PIPELINE REPLACEMENT

- This project replaces and upsizes an existing Zone 3 water pipe and converts it to Zone 2. The project also installs customer PRVs.
- Financial
  - Budget - \$5.2M
  - Actual - \$0.3M
- Current Status
  - Construction Awarded – procurement phase
- Next Steps
  - Install customer PRV's
- Project Schedule
  - Begin Construction: Cust PRVs - March, Pipeline - April
  - Completion est. October 2024
- Impacts
  - Material Delays







# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: SHARON LANE LIFT STATION**  
**DATE: MARCH 21, 2024**

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## Background

The privately owned and operated Sharon Lane gravity sewer system, lift station, and forcemain, was installed in the early 2000's. The District owns and operates gravity sewer mains that convey wastewater to the Sharon Lane lift station that ultimately flows back into the District's sewer system. A location map is attached. The reliance of the District on proper maintenance and operation of a privately owned lift station and forcemain to convey wastewater by a Homeowner Association for the District was identified as a potential liability. Failure of the lift station results in sanitary sewer overflow from an upstream District sewer manhole.

A comprehensive condition assessment of the lift station wetwell, drywell, pumps, piping and electrical and a short section of the forcemain was performed and the report was presented to the Committee at the meeting on November 16, 2023. The report is also attached below for reference. The Sharon Lane Gravity sewer system association has committed to reimburse the District for 50% of the estimated \$60k cost to rehabilitate the lift station.

## Recommendation

Informational

Attachment(s) Location Map  
Inspection Report





- LS** Lift Stations (1)
  - Standard Manhole (6)
  - Gravity Main (7)
  - Force Main (1) Approx 350 ft
- LS and FM installed circa 2000

**Strictly for use by EOCWD staff.**

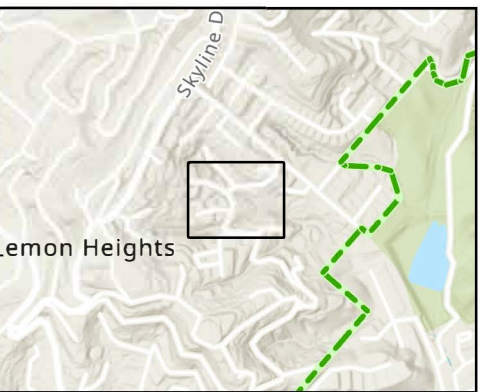
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9/8/2023

1 inch equals 80 feet

0 40 80 160 Feet



**Location Map**



# SHARON LANE PRIVATE LIFT STATION

An inspection of the Sharon Lane lift station was performed on October 16, 2023, by EOCWD staff as well as Morrow Meadows and Sancon Engineering representatives. The inspection included looking at the control panel, pumps, dry well, wet well and a small portion of the 4" inch force main.

EOCWD staff recommends the following corrections.

## DRY WELL:

1. Replacement of one 4" gate valve.
2. Replacement of one 3" bypass valve.
3. Paint piping with an epoxy paint to prevent corrosion.
4. Replace flange bolts with stainless steel bolts.
5. Paint drywell with an epoxy paint.

Check valves appear to be recently replaced and in good working condition.

Dry well corrections to be performed by EOCWD staff.

Estimated cost - \$2,500

## WETWELL:

Sancon Engineering performed an evaluation of the wet well and provided a proposal (attached). Recommendations include:

1. Remove old float systems that are no longer in use.
2. Determine if gate valve is still necessary or active (by EOCWD). If gate valve is no longer needed, Sancon will cut flush to the wall and remove valve.
3. Resurface and epoxy coat wet well walls only.
4. Replace discharge elbows and paint discharge pipe that leads to drywell (work to be done by EOCWD staff).
5. EOCWD will also need to relocate the transducer wire that transmits water level to smart control (AQUAV scout telemetry system)

Sancon Estimate: \$43,014.00



#### PANEL:

The pump controls, water level, alarm system and, stainless steel housing were installed less than 1 year ago and appear to be in good working condition. Staff was able to run the pumps manually and in auto.

Morrow Meadows did recommend purchasing an extra variable frequency drive in case one of the existing units failed. Approximate cost for a spare drive is \$2,500.

#### FORCE MAIN:

The force main was installed 2001. Staff videoed approximately 15 feet using a push camera and confirmed the pipe is 4" pvc.

Conclusion: The lift station overall is in good working condition. The wet well needs to be coated to prevent degradation and requires the largest investment.







# SANCON TECHNOLOGIES, INC. \_ \_ \_

GENERAL ENGINEERING CONTRACTOR Tel: (714) 891-2323  
STATE CONTRACTORS LICENSE #774055 Fax: (714) 891-2524  
DIR REGISTRATION # 1000008879  
5841 Engineer Drive  
Huntington Beach, CA 92649

## **BID # BT24012**

**Date:** October 17, 2023

**To:** East Orange County Water District

**Attention:** Justin Davis **Phone:** 714-538-5815 **Email:** jdavis@eocwd.com

**Project: Sharon Lane Lift Station Rehabilitation Project**

**Scope of work:** Rehabilitation of (1) existing 8' diameter concrete lift station, 20' deep with Sancon 100

polyurethane per the following:

### **This bid includes the following:**

- Confined Space Entry Procedures & Equipment
- Prevailing wage / certified payroll if required, In-Place insurance coverage
- Scaffolding for our work; Step Removal
- Surface preparation, Mortar Repair as required
- Application of 125 mils of Sancon 100 Polyurethane
- High voltage spark test while on-site, at the completion of our work

### **Assumptions:**

- Sancon will not be signatory to any PLA
- GC to coordinate inspection so as not to delay our work
- Water meter or on-site water is provided
- Regular working hours M – F 7AM to 5PM
- Initial Pumping/Dewatering to be done by EOCWD
- Floor coating is not recommended, nor is it included in this proposal
- Proposal is subject to mutually acceptable contract language and must be incorporated in any subsequent contract/purchase order

### **This bid excludes the following:**

- Bypassing, flow control or working in surcharged structures
- Replacement of frame & cover; Removal and replacement of piping and/or mechanical equipment
- 3<sup>rd</sup> party testing or testing other than spark testing
- Stoppage of water infiltration, heavy concrete repair exceeding .5in
- Preparing As-builts, Traffic control, Access notification or arrangements
- Removal of water or debris from structure prior to commencing work
- BMP's, NPDES Permits, SWWP's, Survey & Staking, Revegetation or biological monitoring

**Lift Station Rehabilitation \$43,014.00 Lump Sum**

STAND BY RATE / ADDITIONAL WORK NOT LISTED ABOVE @ \$ 255.00 / MAN Hr. PRICE IS BASED ON ONE MOBILIZATION.  
ADDITIONAL

MOBILIZATIONS BILLED AT: \$3,950.00 EACH. SANCON SHALL NOT BE RESPONSIBLE FOR LIQUIDATED DAMAGES OR  
PENALTY DUE TO DELAY BY

OTHERS. BOND, IF REQUIRED, WOULD ADD 1% TO TOTAL BID PRICE. PRICE IS BASED ON RETENTION BEING WITHHELD A  
MAXIMUM OF 90 DAYS

AFTER COMPLETION OF OUR WORK. PRICE IS FIRM FOR A PERIOD OF THIRTY DAYS FROM RECEIPT. PAYMENT TERMS NET 30  
DAYS OR PER  
CONTRACT.

Respectfully Submitted, Accepted By: \_\_\_\_\_

Date: \_\_\_\_\_

Mark Weber

Sancon Technologies, Inc. PO: \_\_\_\_\_



## Field electrical inspection and assessment of the EOCWD Sharon Lane Lift station:

### Initial observations:

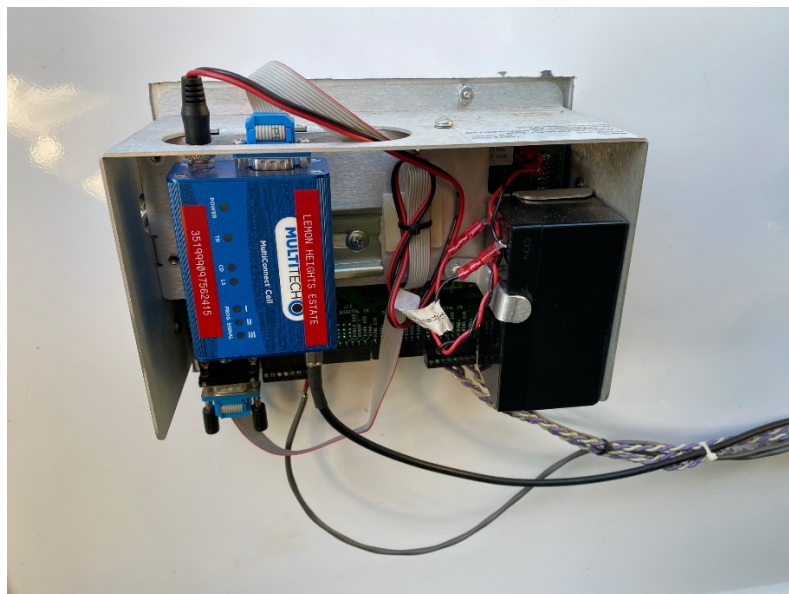
1. The lift station control panel appeared to be in good working condition. There were no obvious missing or defective components, and wiring seemed to be in its original condition. Drawings were present and legible that reflected the components installed.



- The controller operating the pump station is a Mercoid MPCJR. It appeared to be in good working condition. The local pilot devices appeared to be in good working order.



3. The SCADA monitoring controller is a Aquavx Scout with an OMNI antenna on an 8 Ft mast. It appeared to be in good working condition. I was informed by the representative from Jimini Systems Inc. that reception in the area is very poor.





4. The variable frequency drives operating the submersible pumps are ABB ACS-550. They are a reputable VFD and appeared to be in good condition.

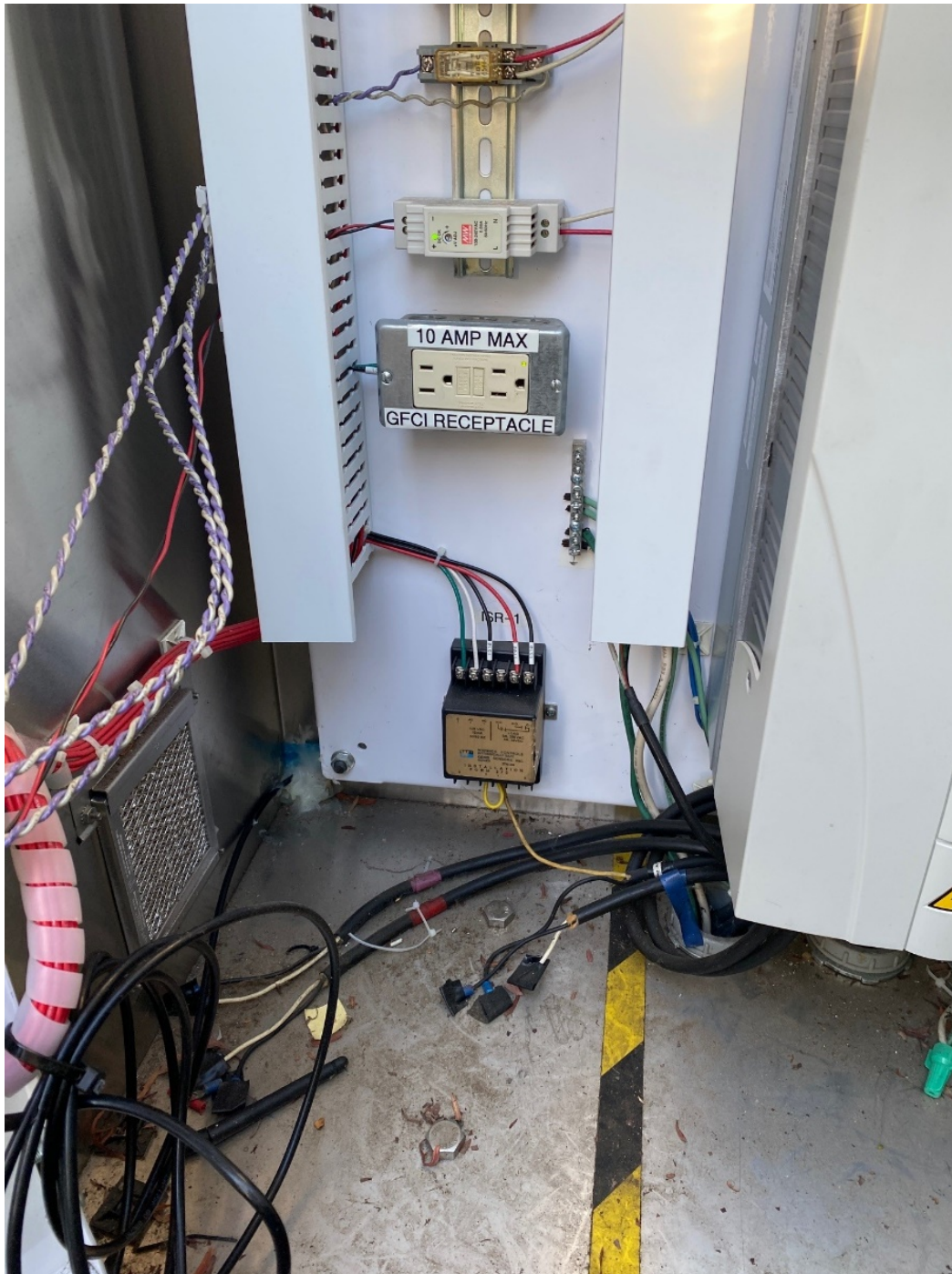


5. Wiring in the wet well appeared to be in good condition and free from abrasions and damage.



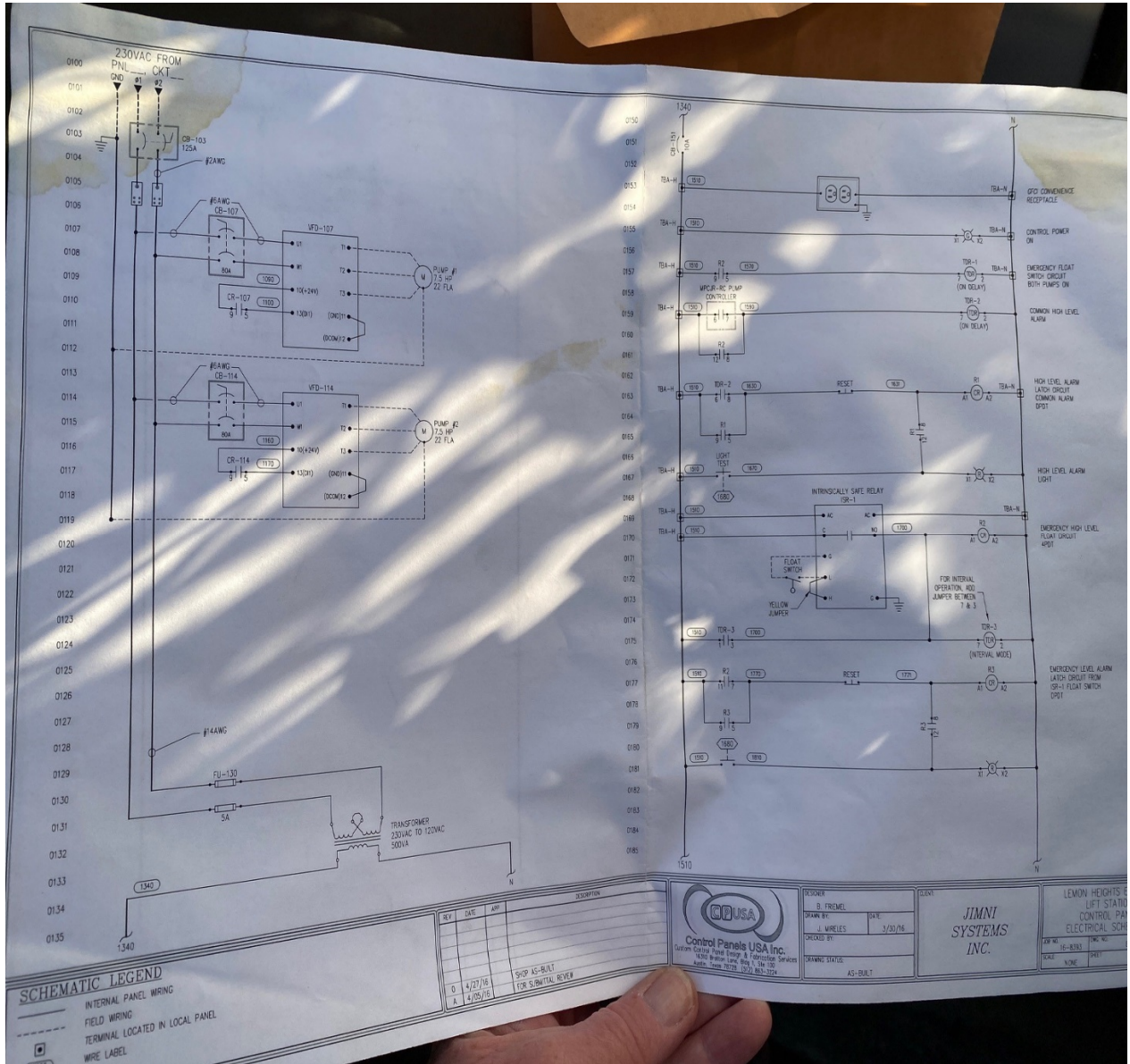
**Items of Concern:**

1. The floats in the wet well appeared to be installed at reasonable elevations, however, the leads from the floats appear to be disconnected from the intrinsically safe relay at the control panel. The representative from Jimini Systems told me that those leads were from old floats, and that new ones were wired directly to the controller. Functionally this is OK, but to meet Class 1, Division 1 requirements, an intrinsically safe relay should be utilized.





- The drawings indicate the submersible pumps are 20 H.P. 3-phase units with an FLA of 22 amps. This is very unlikely. The wires feeding the panel appear to be only rated for 20 amps. The actual submersible pumps that are installed need to be verified to make sure the overcurrent protection devices upstream of the panel are sized properly.



**Recommendations:**

Although the control system at this lift station appears to be in working order, a complete and thorough test of all systems should be performed. This would include the following:

1. Verification and documentation of the actual installed submersible pumps.
2. Verification of all VFD settings match the submersible pump specifications.
3. Re-installation of the intrinsically safe relay(s) or replacement if not operational.
4. Verification of the float elevations, and their functionality.
5. Perform test on all manual and automatic operations.
6. Perform voltage and current test on each pump.
7. Verification of all SCADA and alarming notifications.
8. Make a list of corrective actions for any equipment that does not pass functionality.

This panel is fed by a single-phase source, but the submersible pumps are 3-phase. If one of the VFDs were to fail, there would not be a simple way to make the failed pump operational. I recommend the district should procure a spare replacement VFD.

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: DISTRICT HEADQUARTERS BUILDING – FURNITURE VENDOR SELECTION**  
**DATE: MARCH 21, 2024**

## Background

At the December 14, 2023 meeting, the Board authorized the General Manager to execute purchase agreements up to a total amount of \$225,000 for the office furniture. The agreements would be presented to the Board for ratification as soon as possible.

Quotes were requested for this District supplied item from three select vendors, Tangram Interiors (Tangram), People Space, and CBI. Following a competitive selection process, staff selected Tangram Interiors based on cost, lead times, and quality. The General Manager awarded a purchase agreement with Tangram in the amount of \$222,709. The General Manager requests ratification of the selection by the Board.

Costs for the office furniture (FF&E – furniture, fixtures, and equipment) were included in the District Costs in the approved project budget provided for reference below.

<b>District Headquarters Building Approved Budget</b>	
<b>Description</b>	<b>Est. Cost</b>
Design-Builder	
Building Design and Construction	\$5,200,000
Site	\$2,000,000
District Costs (CM&I, IT, AV, SCADA, FF&E, Generator, Demo)	\$1,000,000
Contingency	\$ 500,000
<b>Total</b>	<b>\$8,700,000</b>

## Recommendation

That the Committee recommend the Board ratify the award of the office furniture to Tangram Interiors in the amount of \$222,709 by the General Manager.

**Attachment(s):** None

# MEMO

**TO: ENGINEERING AND OPERATIONS COMMITTEE**  
**FROM: GENERAL MANAGER**  
**SUBJECT: EAST WELL ELECTRICAL CONSTRUCTION AWARD**  
**DATE: MARCH 21, 2024**

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## Background

The District’s East Well was installed circa 1951. The existing Main Switch Board (MSB), including both the meter and local control panel, is over 40 years old and in need of replacement. The new meter for the East Well was included with the new District Headquarters Building MSB and will be installed with the Headquarters Building project. This project will remove the existing MSB, install a new local control panel, motor soft start, manual transfer switch to connect a portable backup generator, and Remote Telemetry Unit (SCADA Panel).

Staff requested quotes from three electrical contractors, Big Bear Electric (BBE), Morrow Meadows, and Leed Electric with costs ranging from \$121,788 to \$162,353. BBE submitted the lowest estimate and staff recommends awarding the contract to BBE in the amount of \$121,788 and establishing a contingency budget of \$25,000. BBE has been working on the VanderWerff Well and SCADA Phase 2 projects with good performance. A budget amount of \$150,000 was included in the FY2023/24 Capital Budget.

<b>EAST WELL ELECTRICAL CONSTRUCTION COST SUMMARY</b>	
Construction	\$121,788
Contingency	\$ 25,000
Total	\$146,788

## Recommendation

That the Committee award a contract to Big Bear Electric in the amount of \$121,788 and authorize and approve the General Manager a \$25,000 contingency for the construction of the East Well Electrical upgrades.

**Attachment(s):** None