



**ORANGE COUNTY WATER DISTRICT
18700 Ward Street
Fountain Valley, California 92708**

**ADDENDUM NO. 1
TO
CONTRACT DOCUMENTS
FOR
CITY OF FULLERTON WELL 10 PFAS TREATMENT PROJECT
CONTRACT NO. FUL-2026-1
7/27/2026**

This addendum serves as written notice of the following corrections, clarifications, additions and/or deletions to any and all copies of the Request for Bids for CITY OF FULLERTON WELL 10 PFAS TREATMENT PROJECT for OCWD.

ORANGE COUNTY WATER DISTRICT

A handwritten signature in blue ink, appearing to read "Chris Olsen", is written over a horizontal line.

Chris Olsen, P.E.
Executive Director of Engineering
and Water Resources

A handwritten date "7/27/2026" in blue ink is written over a horizontal line.

Date

THE BIDDER SHALL EXECUTE THE BIDDER'S CERTIFICATION AND ATTACH IT TO THE BID SUBMITTED. FAILURE TO CERTIFY THE ADDENDUM AND ATTACH TO THE BID MAY BE GROUNDS FOR THE DISTRICT TO REJECT THE BID AS NON-RESPONSIVE.

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing ADDENDUM NO. 1 to Contract No. FUL-2026-1 and accept all conditions contained therein:

Date: _____

Bidder: _____

By: _____

NOTICE INVITING BIDS, INFORMATION FOR BIDDERS, AND BID FORMS

1. Within the Notice Inviting Bids, Information for Bidders, and Bid Form on Pages N-1, I-1, P-1 respectively, **DELETE** the following:

Replacement of Well 10 and pipeline to Kimberly Well 2 PFAS Treatment Plant per the plans and specifications, including: Well 10 Pump & Motor replacement and new VFD, pipeline from Well 10 to the Kimberly Well 2 PFAS Treatment site including a BNSF railroad crossing via bore and jack, valves, piping, meters, electrical, instrumentation, and other ancillary and support facilities; site improvements, excavation, pavement replacement; warranty and guarantees; and associated commissioning, training, and acceptance testing of the proposed Well 10 and pipeline.

And **REPLACE** with the following:

Replacement of Well 10 and pipeline to Kimberly Well 2 PFAS Treatment Plant per the plans and specifications, including: Well 10 Pump & Motor replacement and new VFD; proper disposal of temporary PFAS treatment IX resin; demolition of the temporary Well 10 PFAS treatment system including salvaging and transport of the IX vessels, piping and valve manifold to City storage; pipeline from Well 10 to the Kimberly Well 2 PFAS Treatment site including a BNSF railroad crossing via bore and jack, valves, piping, meters, electrical, instrumentation, and other ancillary and support facilities; site improvements, excavation, pavement replacement; warranty and guarantees; and associated commissioning, training, and acceptance testing of the proposed Well 10 and pipeline.

2. **DELETE** and **REPLACE** Bid Schedule in its entirety (Attachment "A" of this Addendum).

GENERAL PROVISIONS

None

SPECIAL PROVISIONS

1. Within Section 100.A (Summary of Work), **DELETE** the following:

The CONTRACTOR shall furnish all labor, materials, equipment and incidentals required for the replacement of Well 10 and pipeline to Kimberly Well 2 PFAS Treatment Plant per the plans and specifications, including: Well 10 Pump & Motor replacement and new VFD, pipeline from Well 10 to the Kimberly Well 2 PFAS Treatment site including a BNSF railroad crossing via bore and jack,

valves, piping, meters, electrical, instrumentation, and other ancillary and support facilities; site improvements, excavation, pavement replacement; warranty and guarantees; and associated commissioning, training, and acceptance testing of the proposed Well 10 and pipeline

And **REPLACE** with the following:

The Contractor shall furnish all labor, materials, equipment and incidentals required for the replacement of Well 10 and pipeline to Kimberly Well 2 PFAS Treatment Plant per the plans and specifications, including: Well 10 Pump & Motor replacement and new VFD; proper disposal of temporary PFAS treatment IX resin; demolition of the temporary Well 10 PFAS treatment system including salvaging and transport of the IX vessels, piping and valve manifold to City storage; pipeline from Well 10 to the Kimberly Well 2 PFAS Treatment site including a BNSF railroad crossing via bore and jack, valves, piping, meters, electrical, instrumentation, and other ancillary and support facilities; site improvements, excavation, pavement replacement; warranty and guarantees; and associated commissioning, training, and acceptance testing of the proposed Well 10 and pipeline.

2. Within Section 100.C (Sequence of Work), **DELETE** the following:

Phase II – Well Rehabilitation, Demolition, Construction and Start-Up for Well 10 and Demobilization

9. *Mobilize for Well 10 improvement activities, coordinate with City of Fullerton for Well 10 shutdown and perform well rehabilitation.*
10. *Demolish existing Well 10 discharge to distribution system, well pedestal, structures, electrical equipment, pipelines, and appurtenances as indicated on the Drawings.*
11. *Construct Well 10 pedestal, air gap structure, and storm drain manhole.*
12. *Construct Well 10 below- and above-ground pipelines, valves, and appurtenances include storm drain connection.*
13. *Install new 400 horsepower deep well pump and motor.*
14. *Coordinate with Southern California Edison for improved electrical services. Install new transformer pads, switchboards, and meters.*
15. *Install Variable Frequency Drive and electrical wiring.*
16. *Install Programmable Logic Controller and control wiring.*
17. *Construct all site improvements including pavement replacement, concrete replacement, walls, gates and lighting.*

18. *Coordinate with the Owner's Controls System Integrator and complete all equipment, valve, electrical system, and instrumentation calibration field testing.*
19. *Complete Commissioning and Acceptance Testing and Equipment Operation and Maintenance Training.*
20. *Cleanup and restore construction areas.*
21. *Provide record drawings, manufacturer's data, manuals and warranties.*
22. *Project Close-Out and Notice of Completion.*

REPLACE with the following:

Phase II – Well Rehabilitation, Demolition, Construction and Start-Up for Well 10 and Demobilization

9. *Mobilize for Well 10 improvement activities and coordinate with City of Fullerton for Well 10 shutdown,*
10. *Demolish temporary Well 10 PFAS treatment system.*
11. *Perform Well 10 rehabilitation.*
12. *Demolish existing Well 10 discharge to distribution system, well pedestal, structures, electrical equipment, pipelines, and appurtenances as indicated on the Drawings.*
13. *Construct Well 10 pedestal, air gap structure, and storm drain manhole.*
14. *Construct Well 10 below- and above-ground pipelines, valves, and appurtenances include storm drain connection.*
15. *Install new 400 horsepower deep well pump and motor.*
16. *Coordinate with Southern California Edison for improved electrical services. Install new transformer pads, switchboards, and meters.*
17. *Install Variable Frequency Drive and electrical wiring.*
18. *Install Programmable Logic Controller and control wiring.*
19. *Construct all site improvements including pavement replacement, concrete replacement, walls, gates and lighting.*
20. *Coordinate with the Owner's Controls System Integrator and complete all equipment, valve, electrical system, and instrumentation calibration field testing.*
21. *Complete Commissioning and Acceptance Testing and Equipment Operation and Maintenance Training.*
22. *Cleanup and restore construction areas.*

23. *Provide record drawings, manufacturer's data, manuals and warranties.*
24. *Project Close-Out and Notice of Completion.*

3. Within Section 100.N (Permits), **DELETE** summary table of applicable permits and **REPLACE** with the following:

Agency	Type of Document	Status
<i>CEQA Documentation</i>	<i>Categorical Exemption</i>	<i>Completed</i>
<i>City of Fullerton</i>	<i>Water Quality Management Plan (WQMP)</i>	<i>Completed</i>
<i>BNSF Railway</i>	<i>Encroachment Permit</i>	<i>In Progress, to be pulled by CONTRACTOR</i>
<i>City of Fullerton</i>	<i>Encroachment Permit and Traffic Control Plan</i>	<i>To be obtained by CONTRACTOR</i>
<i>Southern California Edison</i>	<i>Upgraded Service Request</i>	<i>In Progress, to be obtained by DISTRICT. Coordination for installation and inspections to be completed by CONTRACTOR</i>
<i>City of Fullerton</i>	<i>Temporary Water Services Permit</i>	<i>To be obtained by CONTRACTOR</i>
<i>City of Fullerton</i>	<i>Building Permit</i>	<i>To be obtained by CONTRACTOR</i>
<i>City of Fullerton</i>	<i>Electrical Permit</i>	<i>To be obtained by CONTRACTOR</i>
<i>City of Fullerton</i>	<i>Transportation/Overlimit Permit, if required by means and methods</i>	<i>To be obtained by CONTRACTOR</i>

4. **ADD** City of Fullerton Well 10 Temporary PFAS Treatment System easement agreement to Exhibit L (Attachment “B” of this Addendum).

TECHNICAL SPECIFICATIONS

1. **DELETE** and **REPLACE** Section 01010 (Summary of Work), in its entirety (Attachment “C” of this Addendum).
2. Within Section 01014 1.04A.9 (Construction Sequence – Work Sequence/Schedule Constraints), **DELETE** the following:

- “e. Construct Well 10 Improvements. Complete testing and disinfection.*
- f. Construct piping tie-in from improved Well 10 discharge to the Well 10 to Well 2 pipeline.”*

REPLACE with the following:

- “e. Demolish temporary Well 10 PFAS treatment system.*
- f. Construct Well 10 Improvements. Complete testing and disinfection.*
- g. Construct piping tie-in from improved Well 10 discharge to the Well 10 to Well 2 pipeline.”*

3. **DELETE** and **REPLACE** Section 01025 (Measurement and Payment), in its entirety (Attachment “C” of this Addendum).
4. Within Section 02675 1.01 (Disinfection of Piping – Description), **DELETE** the following:
 - “A. This section includes materials and procedures for disinfection of all potable water pipelines in accordance with AWWA C651, as modified below, and City standard 6-05 included in Appendix F.*

REPLACE with the following:

- “A. This section includes materials and procedures for disinfection of all potable water pipelines in accordance with AWWA C651, as modified below, and City standard 6-05 included in Appendix E.*

5. Within Section 02675 1.02 (Disinfection of Piping – Related work described elsewhere), **DELETE** the following:

“C. City Standard 6-05 – Appendix F.”

REPLACE with the following:

“C. City Standard 6-05 – Appendix E.”

APPENDICES

1. **DELETE** Appendix F – BNSF Permit Agreement (Note, Draft BNSF License Agreement is included as Exhibit M in the Special Provisions. Requirements associated with this agreement are still applicable per Special Provisions Section 100.N [Permits]).
2. **ADD** Appendix K – HP System Installation Procedures (Attachment “D” of this Addendum)
3. **ADD** Appendix L – Vessel Spec Summary (Attachment “D” of this Addendum)

PLAN SHEETS

1. List of revised plan sheets to **DELETE** and **REPLACE** (Attachment “E” of this Addendum)
 - CD101 – Well Improvement Demolition Plan
 - C-100 – Well Improvement Site Plan
 - C-501 – Civil Details
 - S-502 – Structural Details 2
 - E-101 – Electrical Demolition Plan

ATTACHMENT A

BID SCHEDULE

No.	Base Bid Items	Est. Quantity	Unit of Measure	Unit Price	Total
1	Mobilization, Demobilization & Clean-Up	1	LS		
2	Furnish and Install Well 10 to Well 2 Pipeline	3,163	LF		
3	Furnish and Install Bore and Receiving Pits at BNSF Crossing	1	LS		
4	Furnish and Install Steel Casing at BNSF Crossing via Bore and Jack	1	LS		
5	Furnish and Install Pipeline at BNSF Crossing via Bore and Jack	1	LS		
6	Furnish, Install, and Coordinate Traffic Control	1	LS		
7	Prepare Permitting	1	LS		
8	Furnish and Install New Well Pump and Motor	1	LS		
9	Furnish and Install Piping and Valving at Well 10 Site	1	LS		
10	Furnish and Install and Coordinate Site Improvements	1	LS		
11	Furnish and Install Site Electrical and Utility Power	1	LS		
12	Furnish and Install Site Lighting	1	LS		
13	Furnish and Install 400 HP Well 10 VFD	1	LS		
14	Demolish Site	1	LS		
15	Well 10 Rehabilitation Sum of Bid Items 15.1 – 15.19	-	-	-	
15.1	Mobilization	1	LS		
15.2	Demobilization	1	LS		
15.3	Furnish, Install and Remove Noise Attenuation Panels	1	LS		

No.	Base Bid Items	Est. Quantity	Unit of Measure	Unit Price	Total
15.4	SWPPP Implementation and Well Discharge Monitoring	1	LS		
15.5	Remove Permanent Pump and Coordinate with City for Storage	1	LS		
15.6	Conduct Gyroscopic Deviation and EMT-24 Casing Inspection Surveys	1	LS		
15.7	Disinfection via Basket Strainer Method	3	EA		
15.8	Wire Brushing of the Blank Casing and Louver Well Screen	20	HR		
15.9	Conduct Video Camera Survey	4	EA		
15.10	Conduct Fill Removal via Open-ending Airlifting	14	HR		
15.11	Bailing	16	HR		
15.12	Furnish, Apply, and Agitate Acid Chemical Treatment	1	LS		
15.13	Furnish, Apply, and Agitate Chlorine Chemical Treatment	1	LS		
15.14	Double-Swab Airlifting	80	HR		
15.15	Furnish, Install, Operate, and Remove Test Pump for Redevelopment and Aquifer Testing	1	LS		
15.16	Well Redevelopment	30	HR		
15.17	Step Drawdown and Constant Rate Aquifer test	24	HR		
15.18	Vacuum Truck to Remove Fluids Not Meeting Limits, Including Disposal	5	EA		
15.19	(Optional) Well Rehabilitation 8-ft Swage Patch	1	LS		
16	Complete Startup Testing and Training	1	LS		

No.	Base Bid Items	Est. Quantity	Unit of Measure	Unit Price	Total
17	Demolish Temporary Well 10 Treatment System and Site Restoration	1	LS		
18	Prepare O&M Manuals and Record Drawings	1	LS		
19	Provide Worker Protection and Safety, Sheeting, Shoring, and Bracing	1	LS		
20	Provide Builder's All Risk Insurance	1	LS		
21	Additional Work as Directed by Engineer*	-	Force Amount	-	\$200,000
TOTAL BASE CONTRACT BID PRICE <i>The sum of all base bid items (1-20) listed above, performed in the manner consistent with the Contract</i>					
(Amount in Words)				(Amount in Numbers)	

*Allowance is identified in Specifications Section 800. Allowance is to be used as compensation for items as set forth in Specifications Section 800. The allowance amount is to be included in the total project bid.

Each individual bid item shall be determined from visiting the work site, reviewing the Plans and Specifications, and all other portions of the Contract Documents, and shall include all items necessary to complete the Work, including the assumption of all obligations, duties, and responsibilities necessary to the successful completion of the Contract, and the furnishing of all materials and equipment required to be incorporated in and form a permanent part of the Work: tools, equipment, supplies, transportation, facilities, labor, superintendence, and services required to perform and complete the Work; site and home office overhead and bonds, insurance and submittals; all as per the requirements of the Contract Documents, whether or not expressly listed or designated.

ATTACHMENT B

EXHIBIT "A"

SHEET 1 OF 1

LEGAL DESCRIPTION FOR TEMPORARY EASEMENT

IN THE CITY OF FULLERTON, COUNTY OF ORANGE, STATE OF CALIFORNIA, BEING A PORTION OF PARCEL 3 OF PARCEL MAP NO. 93-205, FILED IN BOOK 281 AT PAGES 22-25, INCLUSIVE, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID PARCEL 3, THENCE ALONG ALONG THE EASTERLY LINE OF SAID PARCEL 3 SOUTH 00°45'20" EAST A DISTANCE OF 27.26 FEET TO A LINE PARALLEL WITH AND 27.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF SAID PARCEL 3, SAID POINT ALSO BEING THE NORTHWESTERLY CORNER OF PARCEL 2 OF PARCEL MAP NO. 84-452, FILED IN BOOK 196 AT PAGES 11 AND 12, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY AND THE **TRUE POINT OF BEGINNING**;

THENCE ALONG SAID PARALLEL LINE SOUTH 89°30'20" WEST A DISTANCE OF 5.00 FEET TO A LINE PARALLEL WITH AND 5.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM SAID EASTERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 00°45'20" WEST A DISTANCE OF 22.00 FEET TO A LINE PARALLEL WITH AND 5.26 FEET, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE SOUTH 89°30'20" WEST A DISTANCE OF 25.00 FEET TO A LINE PARALLEL WITH AND 30.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM SAID EASTERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE SOUTH 00°45'20" EAST A DISTANCE OF 75.00 FEET TO A LINE PARALLEL WITH AND 80.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 89°30'20" EAST 25.00 FEET TO A LINE PARALLEL WITH AND 5.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM SAID EASTERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 00°45'20" WEST A DISTANCE OF 11.00 FEET TO A LINE PARALLEL WITH AND 69.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 89°30'20" EAST A DISTANCE OF 5.00 FEET TO SAID EASTERLY LINE;

THENCE ALONG SAID EASTERLY LINE NORTH 00°45'20" WEST A DISTANCE OF 42.00 FEET TO THE **TRUE POINT OF BEGINNING**.

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINS 2,085 SQUARE FEET (0.048 ACRES), MORE OR LESS.

ALL AS SHOWN ON EXHIBIT "B" ATTACHED HERETO AND MADE A PART THEREOF.

THIS REAL PROPERTY DESCRIPTION HAS BEEN PREPARED BY ME, OR UNDER MY DIRECTION, IN CONFORMANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT.


KEITH M. KLAGGE, P.L.S. 9534(CA)
THIS DOCUMENT IS PRELIMINARY UNLESS SIGNED

08/28/2025
DATE

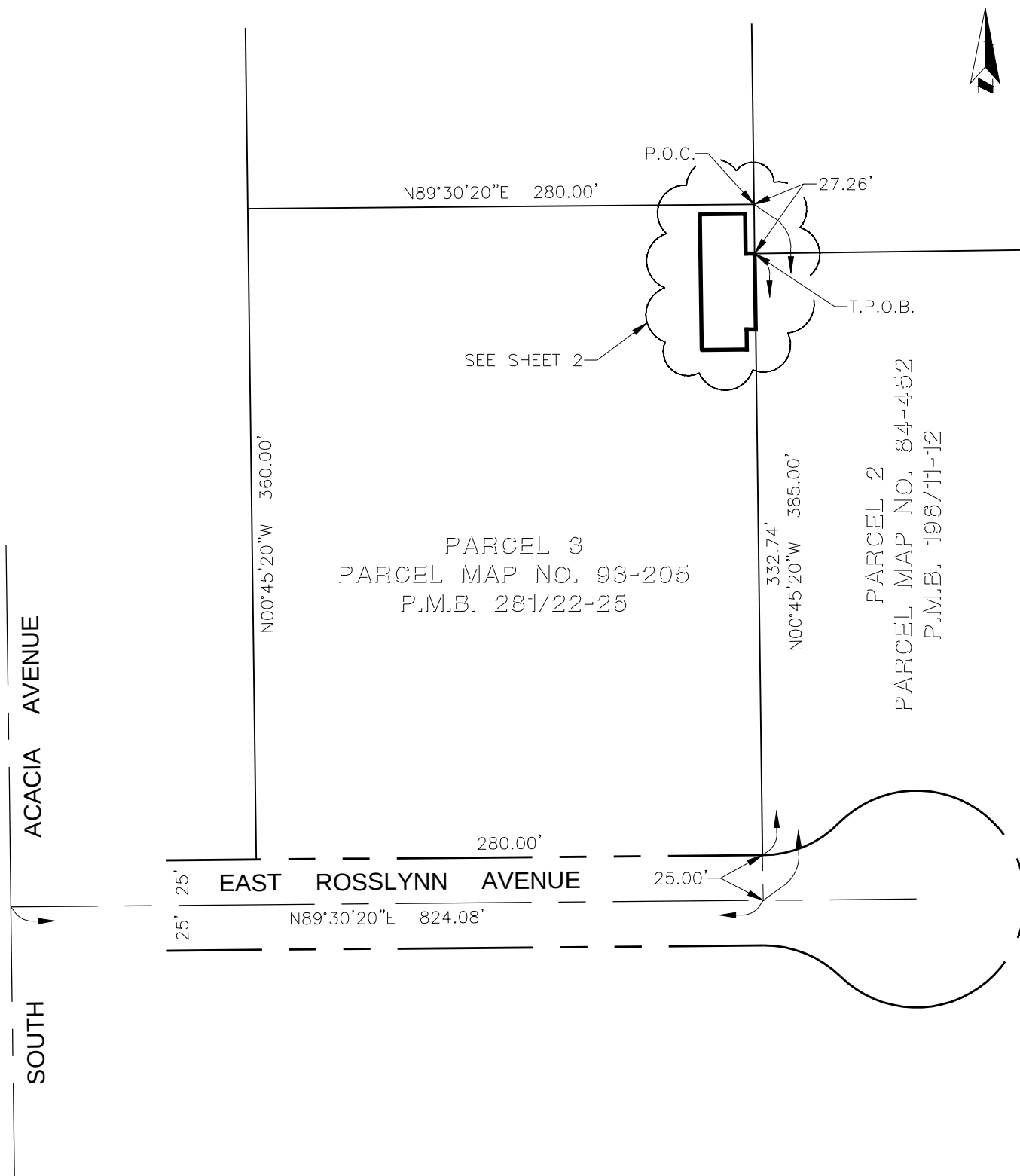


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EXHIBIT "B"

PLAT TO ACCOMPANY LEGAL DESCRIPTION

SHEET 1 OF X



0 10 20
SCALE: 1"=20'

EXHIBIT "B"

SHEET 2 OF 2

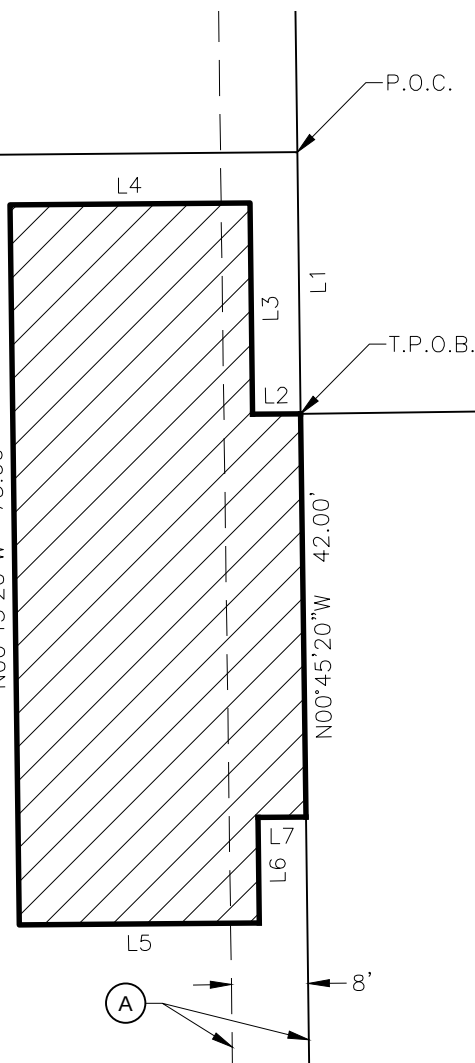
PLAT TO ACCOMPANY LEGAL DESCRIPTION

LINE TABLE

#	BEARING	DISTANCE
L1	S00°45'20"E	27.26'
L2	S89°20'30"W	5.00'
L3	N00°45'20"W	22.00'
L4	S89°20'30"W	25.00'
L5	N89°20'30"E	25.00'
L6	N00°45'20"W	11.00'
L7	N89°20'30"E	5.00'

PARCEL 3
PARCEL MAP NO. 93-205
P.M.B. 281/22-25

N00°45'20"W 75.00'



PARCEL 2
PARCEL MAP NO. 84-452
P.M.B. 196/11-12

LEGEND



AREA OF DESCRIPTION - 2,085 S.F.± (0.048 ACRES)

CENTERLINE

RIGHT OF WAY

LOT LINE

EXISTING EASEMENT

P.O.C.

T.P.O.B.

P.M.B.

POINT OF COMMENCEMENT

TRUE POINT OF BEGINNING

PARCEL MAP BOOK

EXISTING EASEMENTS

(A)

EASEMENT FOR DITCH AND INCIDENTAL PURPOSES IN FAVOR OF KARL FOSSET
RECORDED ON FEBRUARY 4, 1891 IN BOOK 13, PAGE 147 OF DEEDS.

Keith M. Klagge

KEITH M. KLAGGE, P.L.S. 9534(CA)
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08/28/2025
DATE



EXHIBIT "A"

SHEET 1 OF 1

LEGAL DESCRIPTION FOR TEMPORARY CONSTRUCTION EASEMENT

IN THE CITY OF FULLERTON, COUNTY OF ORANGE, STATE OF CALIFORNIA, BEING A PORTION OF PARCEL 3 OF PARCEL MAP NO. 93-205, FILED IN BOOK 281 AT PAGES 22-25, INCLUSIVE, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID PARCEL 3, THENCE ALONG THE NORTHERLY LINE OF SAID PARCEL 3 SOUTH 89°30'20" WEST A DISTANCE OF 69.00 FEET TO A LINE PARALLEL WITH AND 69.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM THE EASTERLY LINE OF SAID PARCEL 3;

THENCE ALONG SAID PARALLEL LINE SOUTH 00°45'20" EAST A DISTANCE OF 155.00 FEET TO A LINE PARALLEL WITH AND 155.00 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 89°30'20" EAST A DISTANCE OF 69.00 FEET TO SAID EASTERLY LINE;

THE ALONG SAID EASTERLY LINE NORTH 00°45'20" WEST A DISTANCE OF 85.74 FEET TO A LINE PARALLEL WITH AND 69.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE SOUTH 89°30'20" WEST A DISTANCE OF 5.00 FEET TO A LINE PARALLEL WITH AND 5.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM SAID EASTERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE SOUTH 00°45'20" EAST A DISTANCE OF 11.00 FEET TO A LINE PARALLEL WITH AND 80.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLE, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE SOUTH 89°30'20" WEST 25.00 FEET TO A LINE PARALLEL WITH AND 30.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM SAID EASTERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 00°45'20" WEST A DISTANCE OF 75.00 FEET TO A LINE PARALLEL WITH AND 5.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 89°30'20" EAST A DISTANCE OF 25.00 FEET TO A LINE PARALLEL WITH AND 5.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, FROM SAID EASTERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE SOUTH 00°45'20" EAST A DISTANCE OF 22.00 FEET TO A LINE PARALLEL WITH AND 27.26 FEET SOUTHERLY, MEASURED AT RIGHT ANGLES, FROM SAID NORTHERLY LINE;

THENCE ALONG SAID LAST MENTIONED PARALLEL LINE NORTH 89°30'20" EAST A DISTANCE OF 5.00 FEET TO SAID EASTERLY LINE, SAID POINT ALSO BEING THE NORTHWESTERLY CORNER OF PARCEL 2 OF PARCEL MAP NO. 84-452, FILED IN BOOK 196 AT PAGES 11 AND 12, OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE ALONG SAID EASTERLY LINE NORTH 00°45'20" WEST A DISTANCE OF 27.26 FEET TO THE **POINT OF BEGINNING**.

THE ABOVE DESCRIBED PARCEL OF LAND CONTAINS 8,610 SQUARE FEET (0.198 ACRES), MORE OR LESS.

ALL AS SHOWN ON EXHIBIT "B" ATTACHED HERETO AND MADE A PART THEREOF.

THIS REAL PROPERTY DESCRIPTION HAS BEEN PREPARED BY ME, OR UNDER MY DIRECTION, IN CONFORMANCE WITH THE PROFESSIONAL LAND SURVEYORS' ACT.



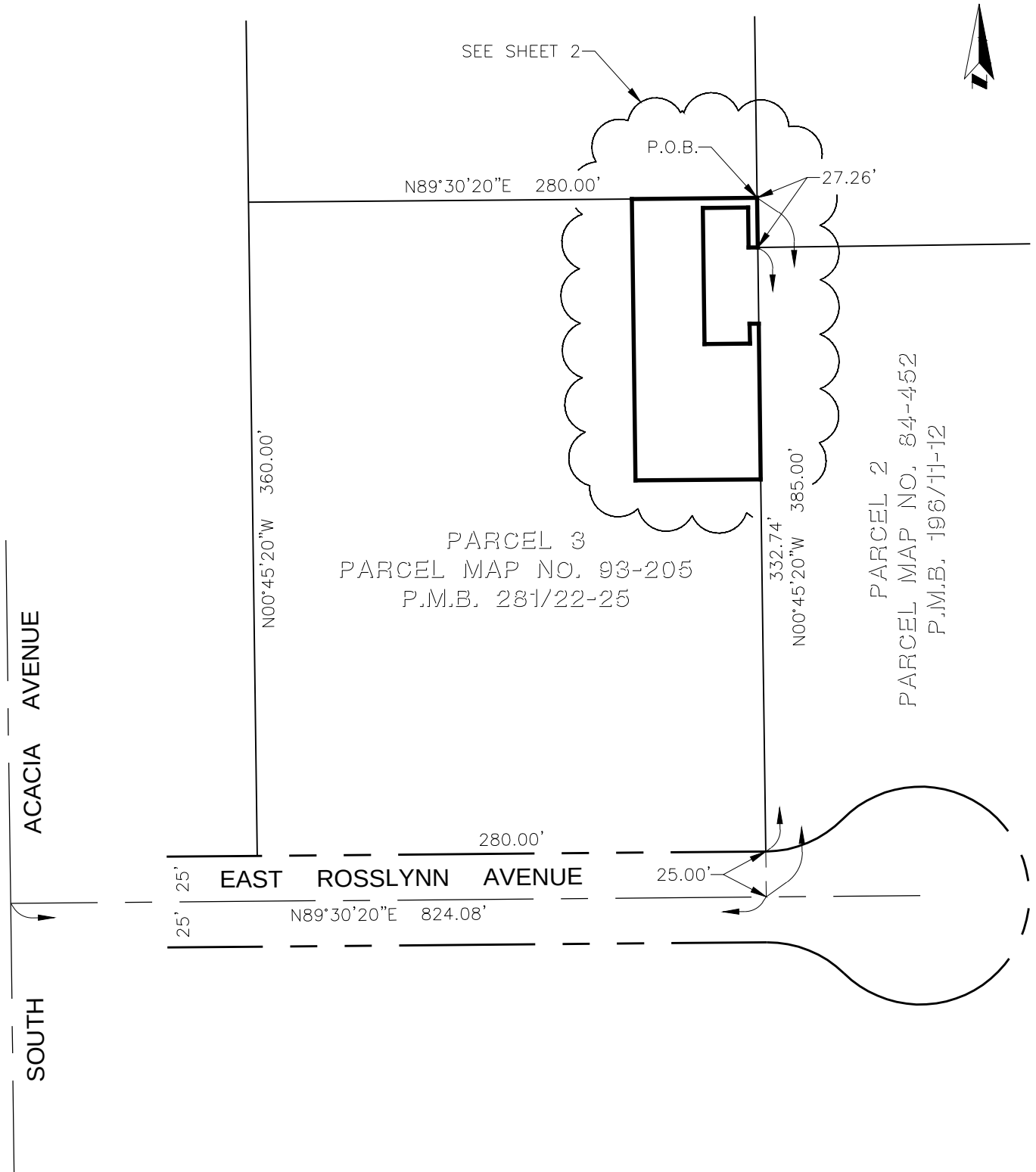
KEITH M. KLAGGE, P.L.S. 9534(CA)
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08/28/2025
DATE



EXHIBIT "B"

PLAT TO ACCOMPANY LEGAL DESCRIPTION



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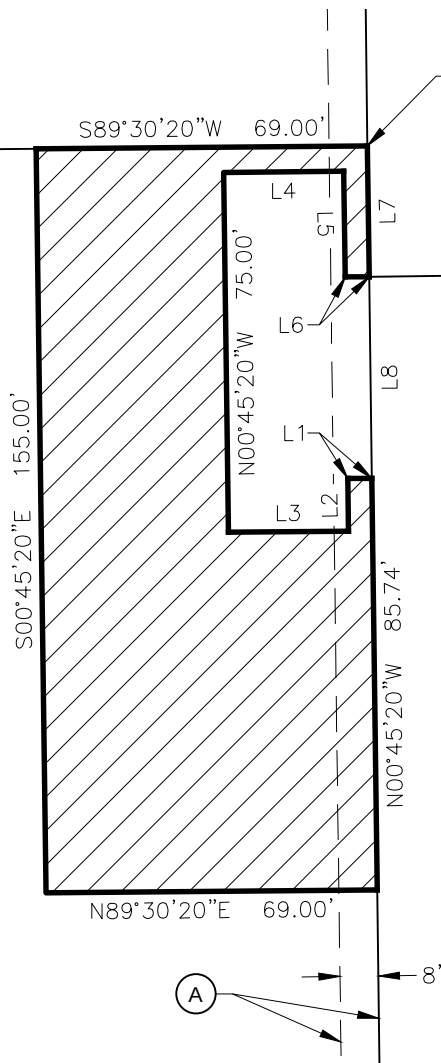
EXHIBIT "B"

PLAT TO ACCOMPANY LEGAL DESCRIPTION

SHEET 2 OF 2

LINE TABLE		
#	BEARING	DISTANCE
L1	S89°20'30"W	5.00'
L2	S00°45'20"E	11.00'
L3	S89°20'30"W	25.00'
L4	N89°20'30"E	25.00'
L5	S00°45'20"E	22.00'
L6	N89°20'30"E	5.00'
L7	N00°45'20"W	27.26'
L8	N00°45'20"W	42.00'

PARCEL 3
PARCEL MAP NO. 93-205
P.M.B. 281/22-25



PARCEL 2
PARCEL MAP NO. 84-452
P.M.B. 196/11-12

LEGEND



AREA OF DESCRIPTION - 8,610 S.F.± (0.198 ACRES)

CENTERLINE

RIGHT OF WAY

LOT LINE

EXISTING EASEMENT

P.O.B.

P.M.B.

POINT OF BEGINNING

PARCEL MAP BOOK

EXISTING EASEMENTS

(A)

EASEMENT FOR DITCH AND INCIDENTAL PURPOSES IN FAVOR OF KARL FOSSET
RECORDED ON FEBRUARY 4, 1891 IN BOOK 13, PAGE 147 OF DEEDS.

Keith M. Klagge
KEITH M. KLAGGE, P.L.S. 9534(CA)
THIS DOCUMENT IS PRELIMINARY UNLESS SIGNED

08/28/2025
DATE



ATTACHMENT C

SECTION 01010 – SUMMARY OF WORK

PART 1 – GENERAL

1.01 LOCATION OF WORK

The work is at the existing Fullerton Well 10 site located at 1851 E Rosslynn Avenue, Fullerton, CA 92831. The site is not accessible to the public.

1.02 SCOPE OF WORK

- A. The Orange County Water District (District) in association with the City of Fullerton (City), will convey water from the Well 10 site to the Kimberly Well 2 PFAS Treatment site to treat well water for per- and polyfluoroalkyl substances (PFAS), specifically perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) to meet current California Division of Drinking Water (DDW) recommendations on PFOS and PFOA levels. This will help reduce reliance on imported water.
- B. Iron and steel products, Manufactured Products, and Construction Materials shall comply with the Build America, Buy America (BABA) Act requirements mandated by the Infrastructure Investment and Jobs Act ("IIJA"), Public Law No. 117-58.
- C. The Contractor shall furnish all labor, materials, equipment and incidentals required for the replacement of Well 10 and pipeline to Kimberly Well 2 PFAS Treatment Plant per the plans and specifications, including: Well 10 Pump & Motor replacement and new VFD; proper disposal of temporary PFAS treatment IX resin; demolition of the temporary Well 10 PFAS treatment system including salvaging and transport of the IX vessels, piping and valve manifold to City storage; pipeline from Well 10 to the Kimberly Well 2 PFAS Treatment site including a BNSF railroad crossing via bore and jack, valves, piping, meters, electrical, instrumentation, and other ancillary and support facilities; site improvements, excavation, pavement replacement; warranty and guarantees; and associated commissioning, training, and acceptance testing of the proposed Well 10 and pipeline.
- D. The Work includes, but is not limited to, the following:
 - 1. Provision of erosion control per the Contract Documents.
 - 2. New pipeline from Well 10 to Kimberly Well 2 PFAS Treatment connection location in Kimberly Ave. Contractor shall update and modify the draft traffic control plans to ensure draft traffic control plans comply with City encroachment permit and requirements.

3. Crossing a BNSF railroad via bore and jack. Contractor shall update and modify the draft traffic control plans to ensure draft traffic control plans comply with City encroachment permit and requirements.
4. Decommissioning and demolishing the Well 10 Temporary PFAS Treatment system, including coordination with IX media supplier and proper removal and disposal of IX resin, and salvage of equipment including, loading, transport, and unloading of empty vessels, piping, valve manifold and equipment to the City storage location indicated herein. The Well 10 Temporary PFAS treatment system site shall be restored as indicated in the Contract Documents.
5. Removal and replacement of the Well 10 pump and motor, and installation of VFD.
6. Construction of the site improvements, including pavement replacement, concrete replacement, walls, and gates.
7. Construction of all electrical equipment and facilities.
8. Construction of all control and instrumentation equipment and facilities including coordination of programming with the City of Fullerton's Instrumentation and Controls specialist.
9. Training and the provision of Operations and Maintenance documentation.
10. Commissioning, Training and Acceptance Testing.

1.03 WORK BY OTHERS

- A. The Contractor will be required to coordinate its work with the City of Fullerton's Instrumentation and Control (SCADA) specialist. The Contractor shall support the City specialist and jointly perform functional testing and start-up. The scope of work at the Fullerton Well 10 site for the City's Instrumentation and Control specialist includes the following:
 1. Review of Design Documents.
 2. Review of Submittals.
 3. Programming of On-Site PLC.
 4. Programming of HMI/SCADA.
 5. Communication with SCADA.

6. Loop Checks.
7. Functional Testing/Start-Up.
8. Documentation.

- B. The Contractor shall note that construction and maintenance activities at the Well 10 site may occur concurrently with Well 10 Improvements and Pipeline to Kim Well 2 PFAS Treatment Plant project, including but not limited to construction of the OCWD Fullerton Kimberly Well 2 PFAS Treatment Plant, and Well 10 Temporary Treatment Plant.

1.04 CONTRACTOR'S USE OF PREMISES

- A. The Contractor shall coordinate access to the site with the City and the District.
- B. All ingress and egress of equipment from the construction work area shall be coordinated with the City. Temporary excavations shall be steel plated or backfilled during non-working hours. Contractor will not be allowed to store equipment, materials or other obstructions on the walkways and roads without prior coordination with City.

1.05 SPECIAL PROJECT REQUIREMENTS

- A. Project Records Documents – The Contractor shall maintain at the site, available to the District and Engineer, at all times during normal business hours, one copy of the Contract Documents, Drawings, Shop Drawings, Change Orders, and other modifications in good order and marked to record all changes made during construction. These documents shall be delivered to the District upon completion of the Work.
- B. During the Progress Payment Request meetings, such record documents shall be reviewed to ascertain that all changes have been recorded. Monthly reviews shall be completed before submitting monthly pay request. Failure to update project Record Documents may be a basis for delaying monthly progress payment.

1.06 WORK HOURS

Normal construction work hours shall be 7:00 A.M. to 4:00 P.M. Monday through Friday excluding holidays. City Operations staff works Monday through Thursday. All pressure tests and inspections needed by City staff should be scheduled on Monday through Thursday or on City Hall open Fridays.

1.07 PERMITS

- A. Business License: The Contractor and all subcontractors shall obtain and pay for a City of Fullerton Business license.
- B. Construction Water: The Contractor shall make his own provisions for obtaining and providing water necessary to perform his work. If the Contractor plans to use the City of Fullerton potable water, the Contractor shall make arrangements for water purchases by contacting the City of Fullerton at phone number (714) 738-6845, and complete an application for temporary water service.
- C. NPDES Permit: For this Contract, the Contractor will be required to follow the requirements of the City's NPDES permit Order No. R8-2009-030, NPDES No. CAS618030, as amended by Order No. R8-2010-0062, and Order WQ 2014-0194-DWQ, General Order No. CAG140001 (Statewide NPDES Permit for Drinking Water System Discharges to Waters of the United States) for discharge of non-contaminated test water. Contractor must file a Notice of Intent (NOI) with the Santa Ana Regional Water Quality Control Board.
- D. BNSF Permit Application ID# 25W-25906: The Contractor is required to complete and obtain the final permit for the BNSF railroad crossing. The initial permitting process has been completed, and agreement has been sent to the City. The Contractor shall coordinate with the City to finalize the BNSF crossing agreement, and Contractor shall complete and comply with the requirements of the permit, including Coordinating with the City on any additional fees and City insurance requirements, in addition to Contractor insurance requirements to ensure that the permit is ready prior to construction.
- E. Encroachment Permit: The Contractor is required to complete and obtain a City encroachment permit, and to ensure all requirements are met, including compliance with City traffic control requirements. Draft traffic control plans have been provided as a part of the Contract Documents, however, it is the Contractor's sole responsibility to ensure full compliance with City requirements, including updates and/or modifications to the draft traffic control plans. Contractor shall submit traffic control plans for pipeline construction and pavement construction operations, prepared, signed and sealed by a California licensed civil or traffic engineer to the City for approval not less than 60 days prior to the start of the construction operations associated with the encroachment permit.
- F. Transportation/Overlimit Permit: The Contractor is required to obtain oversized transport permits for IX vessel transport.

1.08 ENVIRONMENTAL MITIGATION MEASURES

- A. Prior to the start of construction activities, the Contractor shall prepare Best Management Practices (BMPs) to minimize construction related dust and water quality impacts.
- B. This will include, as a minimum: installation of wheel washes where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip; wash truck tires leaving the site to reduce the amount of particulate matter transferred to paved streets as required by SCAQMD Rule 403; and installation of sand bags and fabric over any storm drains in close proximity to the project site.
- C. Contractor shall sweep on and off streets if silt is carried over to adjacent public thoroughfares, as determined by the District or the City to reduce the amount of particulate matter on public streets.
- D. The Contractor's onsite lighting system used during nighttime construction shall be shielded or temporary drapes/walls shall be used such that the illumination is confined to within the work area. Onsite construction lighting shall be arranged such that rays will not shine in or produce glare impacts to sensitive receptors. If the onsite construction lighting creates a light or glare issue during use, the Contractor shall implement additional corrective measures to resolve the issue. The additional corrective measures may include additional shielding on light fixtures, relocating light fixtures, or increasing the height of temporary drapes/walls.
- E. All construction operations shall be conducted in accordance with the hours specified in the City of Fullerton Noise Ordinance and the Contractor shall be required to adhere to the City of Fullerton Ordinance requirements.
- F. All construction vehicles or equipment, fixed or mobile, operated within 1,000 feet of a dwelling shall be equipped with properly operating and maintained mufflers.
- G. All construction operations shall comply with Orange County Codified Ordinance 6 (Noise Control) and stockpiling and/or vehicle staging areas shall be located as far as practicable from dwellings.
- H. All construction equipment shall operate with mufflers and intake silencers no less effective than originally equipped.
- I. Construction techniques designated to reduce noise shall be implemented where feasible. Loud equipment shall be separated and not grouped in one location. Noise barriers shall be used for heavy equipment operations performed within 100 feet of existing residences, or adjacent buildings.

- J. Contractor shall ensure that adequate barriers will be established to prevent pedestrians from entering open trenches or active construction areas. Warnings shall be posted sufficient distances from the work area to allow pedestrians to detour their path.
- K. Contractor shall be responsible for providing appropriate security measures, including the provisions of security guards if needed, for all equipment staging and/or storage areas needed for the project.
- L. Contractor shall dispose of construction refuse at approved disposal locations at Contractor's expense. Contractor shall not be permitted to dispose of construction debris in residential or business containers.
- M. During non-working hours all exposed trenches and excavations shall be covered with temporary steel plates to allow for vehicle access for City vehicles and personnel to allow continued operations and maintenance of City facilities.
- N. Contractor shall provide temporary traffic detours, signage and traffic devices directing pedestrians and vehicle traffic as required.
- O. The Contractor shall prepare and implement a Construction Safety Plan that will include fencing around work areas to prevent public access and the use of flagmen, if required, to direct pedestrians away from construction vehicles and activities.

1.09 CONNECTION REQUIREMENTS TO EXISTING DISTRIBUTION PIPING

- A. Connection to the existing distribution system shall be according to these specifications and City standard 5-08 included in Appendix C, and City Water Service Continuity and Shutdowns included in Appendix D.
- B. Contractor to notify the District and City at least three weeks prior to connection to the requested shutdown date and tie-in operation.
- C. Connection to pipeline will be limited to a duration of 8 hours including dewatering.
- D. The Contractor will be required to drain pipeline as coordinated with the City. In addition the Contractor shall coordinate the disposal location for the water.

1.10 SALVAGE EQUIPMENT INFORMATION AND STORAGE LOCATION

- A. All salvage equipment, including empty IX vessels, temporary treatment associated piping, valves, manifolds, and appurtenances, as well as existing Well 10 valves and equipment shall be delivered to:
 - 1. Lower Acacia Pump Station: 1500 N. Acacia Ave., Fullerton, CA 92831
- B. Contractor shall be responsible for all loading and unloading of equipment. Approximate weights and dimensions of IX vessels:
 - 1. Vessels: 12-ft diameter, 16'-4" height. Approximately 19,000 pounds.
 - 2. System weight (2 vessels, piping and manifold): Approximately 43,000 pounds.
- C. Decommissioning and disassembly of the plant shall be in reverse order of System Installation Procedures (Appendix K), and per manufacturer recommendations.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

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SECTION 01025 – MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.01 BID SCHEDULE

The bid proposal of this project consists of various unit price and lump sum bid items which shall be used to compensate the Contractor for all the work necessary to complete the project in accordance with the Contract Documents. The work required by each unit price or lump sum bid item shall include all labor, materials, transportation, equipment, tools, and appurtenances required to complete the installation of the bid item.

1.02 BID ITEM DESCRIPTIONS

- A. Item No. 1 – Mobilization, Demobilization, and Cleanup, Including Storm Water Compliance.
1. Work under this item shall consist of preparatory work and operations including those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of offices, buildings, and other facilities necessary for the work; for stormwater compliance and for all other work operations and costs necessary prior to beginning the work. This item also includes any costs incurred for securing bonds, insurance, permits, financing site security, project scheduling, documenting existing conditions prior to beginning the construction work.
 2. This item shall also consist of clean-up operations and final project close-out including, but not limited to, maintaining the project site in a safe and orderly manner during construction, removal of equipment, supplies, incidentals, and debris from the project site, cleaning the streets of all soils and construction debris, and for all other work required by the City which must be performed.
 3. Payments for mobilization will be made as follows:
 - a. When the Engineer's estimate of value of work completed, not including mobilization, is 5 percent or more of the original contract amount, 50 percent of the price for mobilization will be included in the progress payment.
 - b. When the Engineer's estimate of value of work completed, not including mobilization, is 10 percent or more of the original contract amount, 25 percent of the price for mobilization will

be included in the progress payment (for a total of 75 percent of the bid item).

- c. When the Engineer's estimate of value of work completed, not including mobilization, is 20 percent or more of the original contract amount, 20 percent of the price for mobilization will be included in the progress payment (for a total of 95 percent of the bid item).
- d. When the Engineer's estimate of value of work completed, not including mobilization, is 50 percent or more of the original contract amount, the remaining five percent of the price for mobilization will be included in the progress payment.

B. Item No. 2 – Furnish and Install Well 10 to Well 2 Pipeline.

- 1. Work under this item shall include furnishing all labor, materials and equipment to coordinate and install the below ground piping including but not limited to below grade cement mortar lined and bituminous coated ductile iron piping, below grade cement mortar lined and coated steel piping, restrained flexible couplings; buried gate valves, valve box, valve extension; temporary paving and patching or trench plates, exposing utilities in advance of pipe excavation operations, trench excavation, controlling ground and surface water, bedding, backfill, compaction, fittings, welded joints, insulating flange kits, coatings, metallic warning tape or locator wire, removing, abandoning or protecting interfering portions of existing utilities or improvements, temporary and permanent support of utilities, test bulkhead, pressure testing, disposal of excess excavation materials, potholing of crossing utilities, verification of connection point, and coordination with the City, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

C. Item No. 3 – Furnish and Install Bore and Receiving Pits at the BNSF Crossing.

- 1. Work under this item shall include furnishing all labor, materials and equipment to coordinate and install the bore pit, receiving pit, temporary paving and patching or trench plates, exposing utilities in advance of pipe excavation operations, pit excavation, controlling ground and surface water, bedding, backfill, compaction; removing, abandoning or protecting interfering portions of existing utilities or improvements, temporary and permanent support of utilities, test bulkhead, pressure testing, disposal of excess excavation materials, potholing of crossing utilities, and coordination with the City, and any

other appurtenant work as shown on the plans and as described in these specifications, complete in place.

D. Item No.4 – Furnish and Install Steel Casing at BNSF Crossing via Bore and Jack.

1. Work under this item shall include furnishing all labor, materials and equipment to coordinate and install the steel bore and jack casing including but not limited to, grout fill, skids and casing seals, fittings, welded joints, coatings, removing, abandoning or protecting interfering portions of existing utilities or improvements, temporary and permanent support of utilities, test bulkhead, pressure testing, disposal of excess excavation materials, and coordination with the City, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

E. Item No. 5 – Furnish and Install Pipeline at BNSF Crossing via Bore and Jack.

1. Work under this item shall include furnishing all labor, materials and equipment to coordinate and install the below ground piping including but not limited to below grade cement mortar lined and coated steel carrier piping, restrained joint harnesses, fittings, welded joints, coatings, removing, abandoning or protecting interfering portions of existing utilities or improvements, temporary and permanent support of utilities, test bulkhead, pressure testing, potholing of crossing utilities, verification of connection point, and coordination with the City, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

F. Item No. 6 – Furnish, Install, and Coordinate Traffic Control.

1. Work under this item shall include furnishing all labor, materials, and equipment to install the traffic control including but not limited to traffic control plans, maintaining and removal of all traffic control signs and devices, traffic barriers, K-rail, delineators, cones, message boards, flaggers, signs, installing and removing temporary striping, and traffic control concepts to the City of Fullerton's requirements, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

G. Item No. 7 – Prepare Permitting.

1. Work under this item shall include furnishing all labor, materials and equipment to prepare permitting, including coordinating to finalize the BNSF crossing agreement, and complying with requirements of

the BNSF permit; obtaining an encroachment permit, including ensuring traffic control plans comply with City encroachment permit and any updates to the plans as required; any other permits as required to complete the work, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

H. Item No. 8 – Furnish and Install New Well Pump & Motor.

1. Work under this item shall include furnishing all labor, materials, and equipment to install a new Well 10 pump and motor, including but not limited to, installation of well pump and motor, including construction of a new concrete pump pedestal, well concrete pad, prelube system, well equipping accessories and all other appurtenant work to install the new Well 10 pump as shown on the plans and as described in these specifications, complete in place.

I. Item No. 9 – Furnish and Install Piping and Valving at Well 10 Site.

1. Work under this item shall include furnishing all labor, materials and equipment to coordinate and install the above ground and below ground piping and valving at the well 10 site including but not limited to above ground cement mortar lined and painted steel pipe, below ground cement mortar lined and coated steel pipe, below ground cement mortar lined and bituminous coated ductile iron pipe, valves, air vacs, control valves, pressure gauges and indicators, flowmeter, fittings, copper piping with polywrap, pre-lube tie-in and saddle, cap existing 12" water line, couplings, pipe supports, concrete pads for supports, painting, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

J. Item No. 10 – Furnish, Install, and Coordinate Site Improvements.

1. Work under this item shall include furnishing all labor, materials, and equipment to coordinate and install site improvements including but not limited to new split face block wall in place of demolished pedestrian gate and fence, storm drain manhole, storm drain piping, air gap structure, pipe supports and footing, AC paving, sidewalk, site preparation, grading, signs, redwood headers, curbs, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

K. Item No. 11 – Furnish and Install Site Electrical and Utility Power.

1. Work under this item shall include furnishing all labor, materials, and equipment to coordinate and install conduits and wires and instrumentation including but not limited to Instrumentation equipment, field instruments, control panels; MCC; Switchboard; Transfer switch; electrical boxes, receptacles, and switches, site lighting, PLC panel, programming and testing, coordination with the City's SCADA integrator; electrical trenching, backfill, compaction, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

L. Item No. 12 – Furnish and Install Site Lighting.

1. Work under this item shall include furnishing all labor, materials, and equipment to coordinate and install site lighting and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

M. Item No. 13 – Furnish and Install 400 HP Well 10 VFD.

1. Work under this item shall include furnishing all labor, materials, and equipment to coordinate and install the PLC panel, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

N. Item No. 14 – Demolish Site.

1. Work under this item shall include furnishing all labor, materials, and equipment to demolish the site including paving, gravel, electrical system, site piping; removal of the existing well pedestal, pad and accessories; existing air gap structure, pedestrian gate and fence, buried valves and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

O. Item No. 15 – Well Rehabilitation. (Sum of Bid Items 15.1 – 15.19)

P. Item No. 15.1 – Mobilization.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment mobilization, including but not limited to mobilization of redevelopment equipment, material, personnel; site security, project scheduling, documenting existing conditions and monitoring working conditions, laboratory analysis to comply with NPDES Discharge Permit; movement of personnel and equipment, materials, incidentals, and all temporary facilities to conduct the work; delivery, set-up, and operation of settling tanks, discharge pipeline; neutralization of redevelopment chemicals prior to offsite discharge; and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

Q. Item No. 15.2 – Demobilization.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment demobilization, including but not limited to removal of all equipment, materials, and temporary facilities installed during mobilization, well development, and site-clean up; site clean-up and restoration of the site to its original condition; proper and complete disposal of all solids, liquids and substances used or generated during mobilization, demobilization, and redevelopment; and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

R. Item No. 15.3 – Furnish, Install, and Remove Noise Attenuation Panels.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment Noise Attenuation, including but not limited to Noise Attenuation Barriers Measuring 10-ft high on the north, east, and south sides of the work site, noise abatement equipment, noise barrier walls, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

S. Item No. 15.4 – SWPPP Implementation and Well Discharge Monitoring.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment SWPPP and well discharge effluent monitoring, including but not limited to BMPs, testing, effluent storage, meters, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

- T. Item No. 15.5 – Remove Permanent Pump and Coordinate with City for Storage.
 - 1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment removal of permanent pump including but not limited to coordination with City for storage, pump delivery, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.
- U. Item No. 15.6 – Conduct Gyroscopic Deviation and EMT-24 Casing Inspection Surveys.
 - 1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment gyroscopic deviation and EMT-24 casing inspection surveys including but not limited to logging, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.
- V. Item No. 15.7 – Disinfection via Basket Strainer Method.
 - 1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment disinfection, including but not limited to disinfection of the well casing and water column prior to brushing and after final video survey, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.
- W. Item No. 15.8 – Wire Brushing of the Blank Casing and Louver Well Screen.
 - 1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment wire brushing, including but not limited to wire brushing of the blank well casing, louvered well screen, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.
- X. Item No. 15.9 – Conduct Video Camera Survey.
 - 1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment video camera survey, including but not limited to clearing turbidity prior to conducting the survey, logging all pertinent information, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

Y. Item No. 15.10 – Conduct Fill Removal via Open-Ended Airlifting.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment fill removal using open-ended airlifting, including but not limited to discharge compliance laboratory testing, installation of temporary eductor pipe as requested by the Engineer, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

Z. Item No. 15.11 – Bailing.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment fill removal using suction bailing, including but not limited to discharge compliance laboratory testing and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

AA. Item No. 15.12 – Furnish, Apply, and Agitate Acid Chemical Treatment.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment acid chemical treatment, including but not limited to discharge compliance laboratory testing, blending of acid and bio-dispersant, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

BB. Item No. 15.13 – Furnish, Apply, and Agitate Chlorine Chemical Treatment.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment chlorine chemical treatment, including but not limited to discharge compliance laboratory testing, blending of sodium hypochlorite solution and concentrated liquid non-ionic surface agent, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

CC. Item No. 15.14 – Double-Swab Airlifting.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment double-swab airlifting, including but not limited to acid swabbing, chlorine treatment, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

DD. Item No. 15.15 – Furnish, Install, Operate, and Remove Test Pump for Redevelopment and Aquifer Testing.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment test pump installation and removal, including but not limited to furnishing test pump, pump operation, sound-deadening devices, throttling device, pump disinfection prior to installation, discharge piping, calibrated in-line flow meter, sample tap, Rossum-type tester, valving, air/vac system, pressure gauge, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

EE. Item No. 15.16 – Well Redevelopment.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment employing pumping and surging, including but not limited to sand production testing and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

FF. Item No. 15.17 – Step Drawdown and Constant Rate Aquifer Test.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment aquifer pumping test, including but not limited to step testing, constant rate pumping testing, recovery testing, sand separating meter, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

GG. Item No. 15.18 – Vacuum Truck to Remove Fluids Not Meeting Limits, Including Disposal.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment vacuum truck to remove fluids not meeting limits, including but not limited to disposal, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

HH. Item No. 15.19 – (OPTIONAL) Well Rehabilitation 8-ft Swage Patch.

1. Work under this item shall include furnishing all labor, materials, and equipment for Well 10 redevelopment swage patching, including but not limited to a post-swaging video survey, and any other appurtenant work as shown on the plans and as described in Sections 1-13 of the Well Rehabilitation technical specifications, complete in place.

II. Item No. 16 – Complete Startup, Testing and Training.

1. Work under this item shall include furnishing all labor, materials and equipment to perform and complete the startup, testing, and training for the Well 10 pump and motor and pipeline; testing tie in to Kim 2 PFAS WTP with just Well 10; testing tie in to Kim 2 PFAS WTP with Well 10 and Well 2, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

JJ. Item No. 17 – Demolish Temporary Well 10 Treatment System and Site Restoration.

1. Work under this item shall include furnishing all labor, materials and equipment to perform and complete the Well 10 Temp PFAS Treatment System Demolition and Site Restoration, including but not limited to, coordination with IX media supplier for proper removal and disposal of IX media; salvage of temporary treatment IX vessels, associated valving, manifolds, piping, and equipment including loading, delivery, and unloading; removal of temporary PFAS treatment system concrete mat foundation; restoration of PCC parking and striping to match existing parking; restoration of block wall piping penetrations; and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

KK. Item No. 18 – Prepare O&M Manuals & Record Drawings.

1. Work under this item shall include furnishing all labor, materials and equipment to prepare the operation and maintenance manuals and record drawings, and any other appurtenant work as shown on the plans and as described in these specifications, complete in place.

LL. Item No. 19 – Provide Worker Protection and Safety, Sheeting, Shoring, and Bracing.

1. Work under this item shall include furnishing and installing the excavation safety measures including adequate sheeting, shoring, and bracing or equivalent method or equivalent method for the protection of life and limb which shall comply with all applicable safety orders, complete in place.

MM. Item No. 20 – Provide Builder's All Risk Insurance.

1. Work under this item shall include providing the Builder's All Risk Insurance pursuant to Public Contract Code Section 7105 in accordance with the Contract Documents.

NN. Item No. 21 – Additional Work as Directed by Engineer.

1. Work under this item shall include Force Account Allowance as specified in the Special Provisions.

1.03 WORK NOT LISTED IN THE SCHEDULE OF BID ITEMS

- A. The General Provisions and items in the Special Provisions, general requirements, and specifications which are not listed in the schedule of work items of the bid form are, in general, applicable to more than one listed work item, and no separate work item is provided, therefore. Include the cost of work not listed but necessary to complete the project designated in the Contract Documents in the various listed work items of the bid form.
- B. The bids for the work are intended to establish a total cost for the work in its entirety. Should the Contractor feel that the cost for the work has not been established by specific items in the bid form, he shall include the cost for that work in some related bid item so that his proposal for the project does reflect his total cost for completing the work in its entirety.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

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ATTACHMENT D

Fullerton Well 10 PFAS Treatment Project – Specifications

Appendix K. HP Equipment Installation Procedures

HP SERIES EQUIPMENT INSTALLATION PROCEDURES

Description:	Document Number:
HP Series Equipment Job-Site Installation Procedures	
Originator(s):	Effective Date:

1.0 Purpose

- 1.1 This Procedure documents the steps required for delivery, off-loading, installation, and assembly of HP Series Equipment at a job-site.

2.0 Scenario

- 2.1 Red Bluff Engineering and Manufacturing Department fabricates HP Series Equipment for customers. Our Scope of works vary between equip only, installation, delivery, assembly, and performance testing depending on the Project. This Procedure will assist with general steps to properly assemble HP Series Systems at a job-site. Some site specific situations may require additional steps.

3.0 Prerequisites

- 3.1 Confirm Project Specific SOW (Proposal, Purchase Order): Delivery, Off-loading, crane, assembly, anchoring, instrumentation, start-up, training, and performance testing.
- 3.2 Site visit by EWT personnel (Sales, Branch, Engineering, Project Manager)
- 3.3 Site access: road access, permit truck/trailer access, power lines access, and crane access.
- 3.4 Site construction schedule and location of System on customer pad.
- 3.5 Tools: air compressor, crane, sockets, transit with stick, safety vest, hard hat, gloves, steel-toe boots, and safety glasses. Some sites may require additional PPE or training to provide work on-site.
- 3.6 If anchoring is included in EWT SOW, review anchor calculations, order materials, and confirm pad construction.

4.0 Procedure

4.1 Receiving

Immediately upon receipt and prior to removal of Equipment from the truck trailer, railcar or shipping container, inspect for any damage. Claiming any damage that may have occurred in transit should be documented and filed promptly with the delivering carrier. The unloading operation should be delayed until the carrier's representative has completed his inspection of the damaged equipment, otherwise a damage claim may not be honored. The inspection should include as a minimum:

- 4.1.1 External surface damage of equipment (including painting).
- 4.1.2 Damage such as broken nozzles, valves, pipes, underdrain, etc.
- 4.1.3 Equipment damage at contact points used to secure vessels to trailer.
- 4.1.4 Unpacking and inspection of all packaged equipment and accessories.

4.2 Unloading and Handling

When unloading and handling the IX/Carbon System Equipment, extreme care should be taken as not to damage it. Regardless of the type of equipment being handled, certain precautionary measures must be implemented such as:

- 4.2.1 Insure the lifting equipment can withstand the total intended load (wt and reach).
- 4.2.2 Always use lifting eyes and brackets.
- 4.2.3 Never position the lifting equipment where damage to the system equipment load may occur.
- 4.2.4 When using a forklift, make sure the forks are long enough to extend past the intended load. This prevents accidental punctures on the underside of the equipment crates, boxes and skids that may damage the equipment itself.
- 4.2.5 Use spreader bars.
- 4.2.6 Do not slide, drag or push equipment across surfaces. Always lift to move into position.
- 4.2.7 Do not roll, drop or throw equipment or accessories.
- 4.2.8 Lifting cables and/or straps must not be attached to, or permitted to come in contact with nozzles, flanges, gussets, pipes, shafts, painted surfaces, or any other accessory that may be damaged by contact.
- 4.2.9 When equipment is being lifted, proper rigging practices should be observed and a guide-line should be attached to prevent impact damage caused by swinging into contact with other object.
- 4.2.10 Never set on or roll over an equipment fitting and never use a fitting as a lifting point.
- 4.2.11 Prevent tools, hooks, etc. from striking the Equipment.

4.3 Site Preparation and Setting Equipment

- 4.3.1 Locate Approved Equipment Drawings and As-Built Drawings for reference.
- 4.3.2 Shoot pad with transit to check elevation and slope. System must be installed level for assembly.
- 4.3.3 Per "As-built" Footprint Drawing, mark layout on pad and locate shims

4.4 Assembly Instructions

The Carbon System Equipment has been shipped pre-assembled to the greatest extent possible. The piping module skid and vessel skids have drilled holes for placement and mounting. The site foundation should be level, but most importantly flat. Check to see if any bolts that may have come loose during shipment, if so, tighten them. The internal nozzles have been shipped installed. Be sure to use proper flange tightening procedures when assembling the piping. The Carbon System should be assembled in the following order:

- 4.4.1 Locate Approved Equipment Drawings and As-Built Drawings for reference
- 4.4.2 Mark the foundation with guide-lines in order to place the vessels in a straight line.
- 4.4.3 Located the vessels spaced as shown on As-Built Drawing.
- 4.4.4 Place the System tie-in piping module appropriately between the manifold piping connections.
- 4.4.5 If alignment is off, make sure the vessels and piping module are level and in the correct positions. Some shimming of the vessels and piping module may be required.
- 4.4.6 Bolt Tank A to the bottom tie-in piping. (bolt loosely until system is fully assembled).
- 4.4.7 Bolt Tank B to the bottom tie-in piping. (bolt loosely until system is fully assembled).
- 4.4.8 Insert inlet diffuser with gaskets into top of the vessel.

- 4.4.9 Bolt Tank A to the top tie-in piping. (bolt loosely until system is fully assembled).
- 4.4.10 Bolt Tank B to the top tie-in piping. (bolt loosely until system is fully assembled).
- 4.4.11 If alignment is acceptable, tighten all the bolts.
- 4.4.12 Secure the vessels and piping module to the foundation (Per seismic calculations).
- 4.4.13 Assembly is complete.

4.5 Final Checklist

- 4.5.1 Pressure Test Equipment assembly and confirm no leaks.
- 4.5.2 Clean equipment as required.
- 4.5.3 Equipment Touch-up Paint as required.
- 4.5.4 Clean-up job-site.
- 4.5.5 Customer Acceptance Sign-off.

5.0 Key Notes

- 5.1 Confirm required EWT Scope of Work
- 5.2 Confirm site access for over-sized permit load trucks, equipment , and slurry media
- 5.3 System "As-Built" Footprint Drawings required for site assembly.
- 5.4 Complete Customer Acceptance and Sign-off .

Equipment loaded at the factory. (1) Complete Standard HP1220 System on (1) Truck.



Job-Site Checklist:

- Access for trucks and crane
- Tail-gate Meeting with crane contractor, truck vendor, install crew, site manager,
- Confirm final location for system to be placed.
- System "As-Built" Footprint Drawings
-

Prior to off-loading equipment from truck, you must shoot the pad to confirm shim requirements and complete the pad layout based on the “As-Built” Footprint Drawing.





Per "As-Built" Footprint Drawing, set both vessels prior to locating the manifold and tie-in piping.



Complete assembly of the top-influent pipes on the ground. Insert Inlet Diffusers prior to flying the top-pipes into place.



Attach bottom tie-in piping to vessels prior to setting manifold.





System pressure test, equipment touch-up painting, clean-up job-site work area, and Customer sign-off completes the System Installation.

Fullerton Well 10 PFAS Treatment Project – Specifications

Appendix L. Vessel Spec Summary

HP®1220CIX SYS

DUAL MEDIA GAC/RESIN ADSORPTION SYSTEM SPECIFICATION SUMMARY

HP®1220CIX SYS Liquid Phase Adsorption Systems are designed to treat a wide range of contaminated process streams. Piping and valves are configured for series, parallel, or vessel isolation flows. System includes GAC/RESIN inlet and outlet piping, and backwash capabilities (for GAC Only). The system consists of two adsorbers, with all piping, valves, and gauges assembled for ease of operation. The adsorbers are equipped with underdrains for maximum series flow rate of 525 GPM for GAC and 1600 GPM for Resin.

EACH VESSEL:

Vessel Diameter	144"
Side Shell Height	60"
Overall Height (Approx.).....	16'-4"
Maximum Working Pressure	125 psi @ 140 °F
Manway:	
Flanged at side shell	24"
Elliptical type at head	14" x 18"
Vessel Volume.....	7,520 gal.
Carbon Volume	700 Ft ³
Resin Volume	424 Ft ³
Maximum Flow Rate (GAC)	525 GPM
Empty Bed Contact Time (GAC)	10 min/vessel @ 525 GPM
Maximum Flow Rate (Resin).....	1600 GPM
Empty Bed Contact Time (GAC)	2 min/vessel @ 1600 GPM
ASME Code Stamping	YES
Material	Carbon Steel
Supports	Wide Flange Legs
Lifting	Lifting Lugs
Seismic	Current IBC
Interior Surface Prep	SSPC-SP5
Interior Surface Coating	Plasite 4110 35 mil dft min
Exterior Surface Primer.....	Carboguard 890 Epoxy 4-6 mil dft
Exterior Surface Coating	Carbothane 133VOC Urethane 3-4 mil dft
Standard Color.....	Cashew #9225

CONNECTIONS:

Inlet / Outlet	10" 150# ANSI Flanged
Media Fill / Media Discharge	4" Kamlock
Backwash (GAC Only)	8" Flanged
Utility Water	2" Kamlock

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to completeness of information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

Evoqua reserves the right to change the specifications referred to in this literature at any time, without prior notice.

UNDERDRAINS:

External Ring Header..... 10" Sch. 40 Epoxy Lined Carbon Steel
Screens 8 ea 316L Stainless Steel V-Wire X-Box Screens 4 ½" dia. x 10"

VALVE ASSEMBLY AND PIPING:**Piping:**

Process Piping..... 10" Schedule 40 Carbon Steel, Epoxy Lined
GAC Transfer Piping..... 4" Sch 40 Carbon Steel, Epoxy Lined

Valves:

Process 10" Butterfly, Cast Iron Body w/SS Disk, Gear Operator
GAC Transfer 4" Flanged 316 Stainless Steel Ball Valve
Drain/Wash 2" Bronze Ball Valve
Sample Ports (3) 1/2" Bronze Ball Valve

SYSTEM WEIGHT:

System Shipping weight (Two Vessels Piping & Manifold) 43,000 lbs.
Operating Weight (with UC1240LD GAC)..... 180,000 lbs.
Operating Weight (with PSR2+ Resin) 192,000 lbs.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT YOUR NEAREST
CARBON SERVICE BRANCH AT:

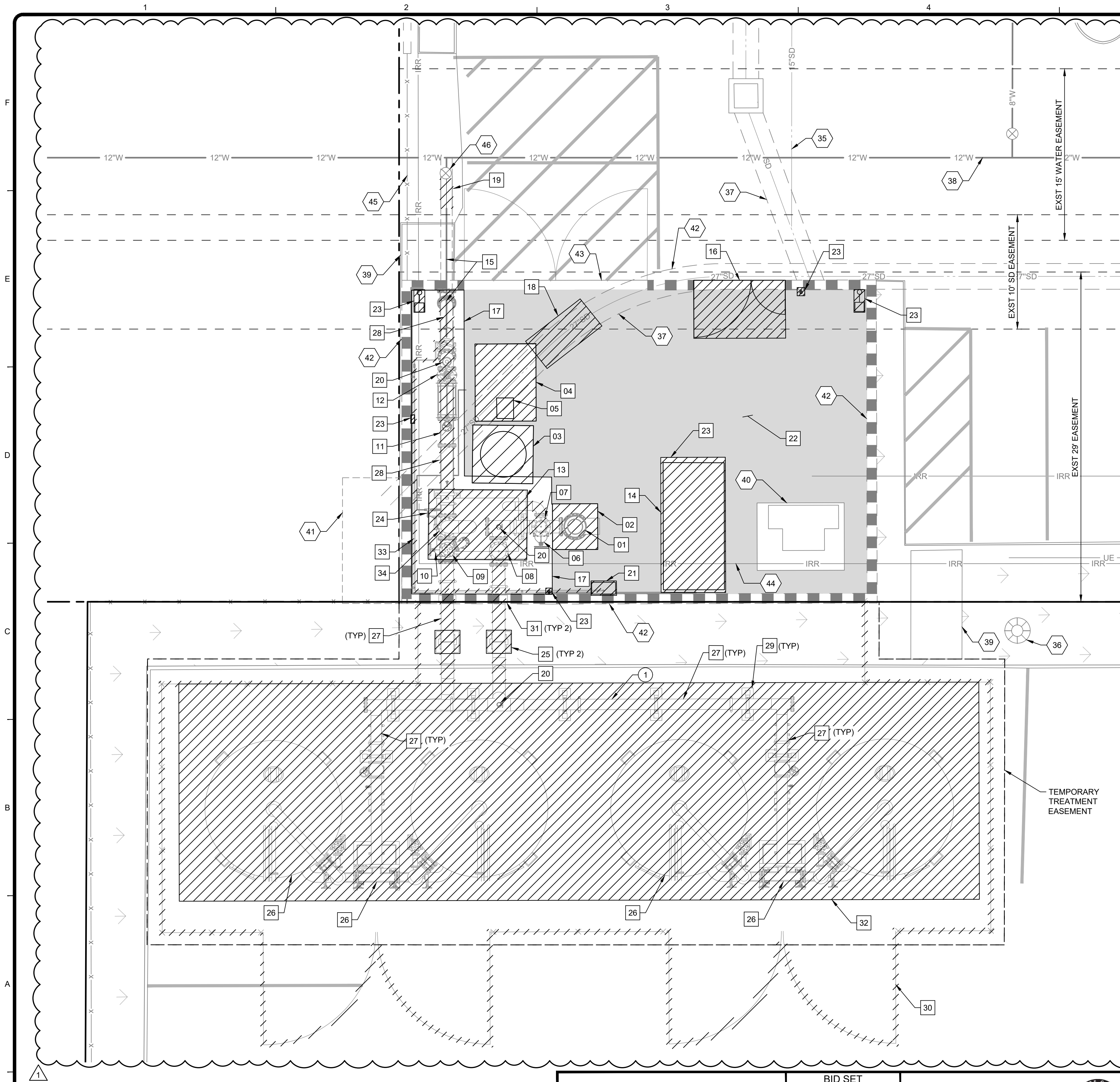
866-613-5620

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ATTACHMENT E

7/21/2026 9:52:16 PM - C:\ADACDDCS\TETRA TECH INC\000-09287-24001-COF-WELL 10\PROJECT FILES\CADD\SHEET\ESC-151 WELL IMPROVEMENTS DEMOLITION PLAN.DWG - WOUTASZEK, RUSS



XX	PROTECT IN PLACE NOTES
35	PROTECT IN PLACE EXST 15" SD
36	PROTECT IN PLACE EXST LIGHT POLE
37	PROTECT IN PLACE EXST 27" SD
38	PROTECT IN PLACE EXST 12" W
39	PROTECT IN PLACE EXST SIDEWALK. IF SIDEWALK IS INTERFERING, CONTRACTOR TO REPLACE IN KIND
40	PROTECT IN PLACE EXST TRANSFORMER AND PAD. DEMOLITION BY OTHERS
41	PROTECT IN PLACE EXST STORM DRAIN CATCH BASIN
42	PROTECT IN PLACE EXST BLOCK WALL
43	PROTECT IN PLACE EXST SWING GATE
44	PROTECT IN PLACE EXST IRRIGATION LINE
45	PROTECT IN PLACE EXST ROLLING GATE
46	PROTECT IN PLACE EXST GATE VALVE. INSTALL BLIND FLANGE PER DTL 1 ON SHT C-101

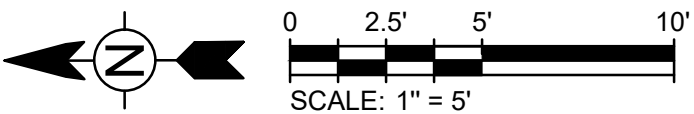
XX	DEMOLITION NOTES
01	REMOVE AND SALVAGE VERTICAL TURBINE PUMP AND MOTOR
02	REMOVE AND DISPOSE WELL PUMP FOUNDATION BLOCK (4' X 4' AREA AS SHOWN)
03	REMOVE AND DISPOSE EXST CHEMICAL TANK AND PAD
04	REMOVE AND DISPOSE EXST CHEMICAL SHED
05	REMOVE AND SALVAGE EXST CHEMICAL PUMP
06	REMOVE AND SALVAGE EXST 8" GATE VALVE
07	REMOVE AND SALVAGE EXST 8" PUMP CONTROL VALVE
08	REMOVE AND SALVAGE EXST 12" SWING CHECK VALVE
09	REMOVE AND SALVAGE EXST 6" PRESSURE REDUCING VALVE
10	REMOVE AND SALVAGE EXST 6" GATE VALVE
11	REMOVE AND SALVAGE EXST PROPELLER FLOW METER
12	REMOVE AND SALVAGE EXST 12" GATE VALVE
13	REMOVE AND DISPOSE EXST AIR GAP
14	REMOVE AND DISPOSE EXST ELECTRICAL EQUIPMENT PAD. SEE SHT E-101 FOR DEMOLITION OF EXST ELECTRICAL EQUIPMENT
15	REMOVING INTERFERING PORTIONS AND APPURTENANCES OF EXST 12" W. ABANDON IN PLACE EXST 12" W
16	REMOVE AND SALVAGE EXST PEDESTRIAN GATE & FENCE
17	REMOVE AND DISPOSE EXST CONCRETE SLAB
18	REMOVE AND DISPOSE INTERFERING PORTIONS OF 27" SD
19	DEMOLISH EXST 12" PIPE AND INSTALL 12" BLIND FLANGE PER DTL 1 ON SHT C-101
20	REMOVE AND SALVAGE EXST ARV
21	REMOVE AND SALVAGE EXST CHLORINE ANALYZER PANEL
22	REMOVE AND REPLACE EXISTING AC PAVEMENT IN KIND
23	SEE SHT E-101 FOR DEMOLITION OF EXST ELECTRICAL EQUIPMENT
24	REMOVE AND SALVAGE EXST CHEMICAL INJECTION QUILL
25	REMOVE AND DISPOSE EXST CONCRETE PAD AND REMOVE AND SALVAGE EXST PIPE SUPPORT
26	REMOVE AND SALVAGE EXST TEMPORARY TREATMENT IX TRAINS AND VALVE MANIFOLDS
27	REMOVE AND SALVAGE EXST TEMPORARY TREATMENT PIPING, VALVING AND APPURTENANCES
28	REMOVE AND DISPOSE EXST WELL 10 PIPING AND COUPLINGS
29	REMOVE AND SALVAGE EXST TEMPORARY TREATMENT PIPE RACKS
30	REMOVE AND SALVAGE EXST TEMPORARY TREATMENT FENCING AND GATES
31	REMOVE AND DISPOSE PIPE PENETRATION AND REPAIR CMU WALL PER DTL 4 ON S-502
32	REMOVE AND DISPOSE EXST 24" CONCRETE MAT FOUNDATION
33	REMOVE AND DISPOSE EXST ANALYZER PANEL SAMPLE PIPING
34	REMOVE AND SALVAGE EXST 12" BUTTERFLY VALVE

NOTES TO CONTRACTOR:

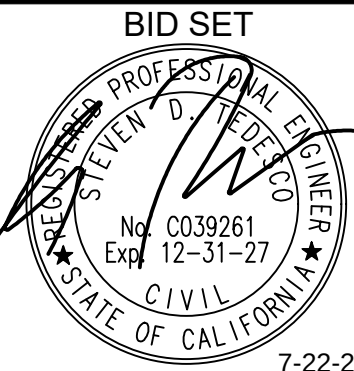
- CONTRACTOR SHALL CONTACT THE CITY A MINIMUM OF 48 HOURS IN ADVANCE TO SALVAGE ANY EQUIPMENT PRIOR TO ANY DEMOLITION WORK. SALVAGE EQUIPMENT SHALL BE PER SECTION 01010 AND THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING FACILITIES UNLESS NOTED OTHERWISE ON THE PLANS.
- WELL 10 IS AN EXISTING ACTIVE WELL. DEMOLITION OF THE EXISTING WELL 10 MUST BE APPROVED BY THE CITY AT LEAST 3 WEEKS PRIOR TO SHUTDOWN.
- DEMOLITION ACTIVITIES RELATED TO WELL 10 AND THE WELL 10 DISCHARGE AND AIR GAP PIPING SHALL BE COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE LISTED IN SPEC SECTION 01014.

LEGEND

	TO BE DEMOLISHED		REMOVE AND REPLACE EXST AC PAVEMENT IN KIND
	PROTECT IN PLACE THE FOLLOWING		DEMOLISH, ABANDON, OR REMOVE AND SALVAGE THE FOLLOWING



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Tel: (949) 809-5000



ORANGE COUNTY
WATER DISTRICT

18700 WARD STREET
FOUNTAIN VALLEY, CALIFORNIA 92708
TELEPHONE (714) 378-3200



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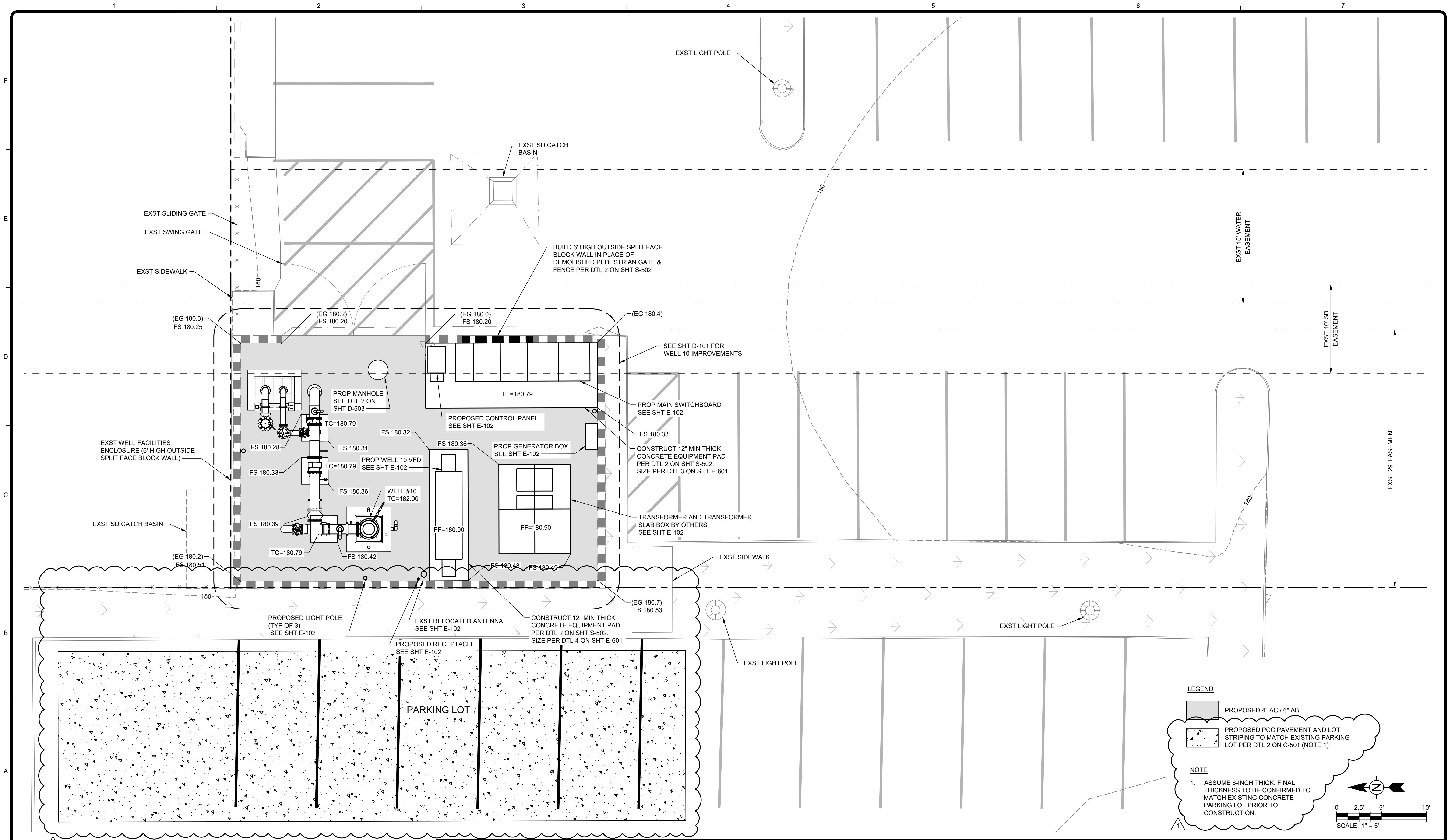
ORANGE COUNTY WATER DISTRICT
FULLERTON WELL 10
PFAS TREATMENT PROJECT
WELL IMPROVEMENT
DEMOLITION PLAN

PROJ: 200-09287-24001
DESN: K. MATSUMOTO
DRWN: J. IRWIN
CHKD: K. BUTTACAVOLI

CD101

Bar measures 1 inch, otherwise drawing not to scale

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BID SET

PROFESSIONAL ENGINEER
STEPHEN D. COO
No. C039261
Exp. 12-31-27
STATE OF CALIFORNIA
7-22-26

ORANGE COUNTY WATER DISTRICT

18700 WARD STREET
FOUNTAIN VALLEY, CALIFORNIA 92708
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MARK	DATE	DESCRIPTION	BY
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ORANGE COUNTY WATER DISTRICT

FULLERTON WELL 10
PFAS TREATMENT PROJECT
WELL IMPROVEMENT
SITE PLAN

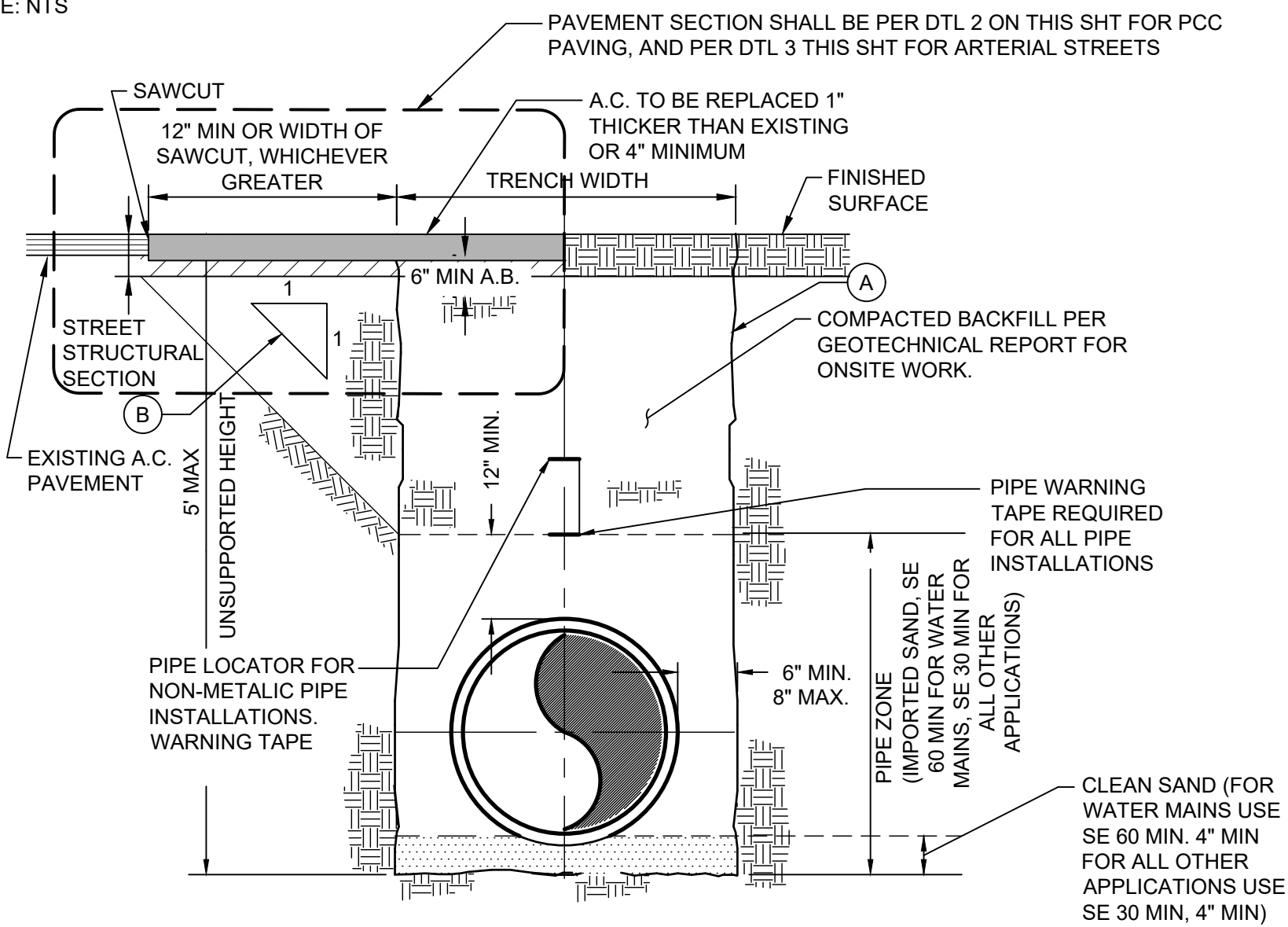
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DESIGN: K. MATSUMOTO
DRAWN: J. IRWIN
CHECKED: K. BUTTACAVOLI

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1 TRENCH DETAIL

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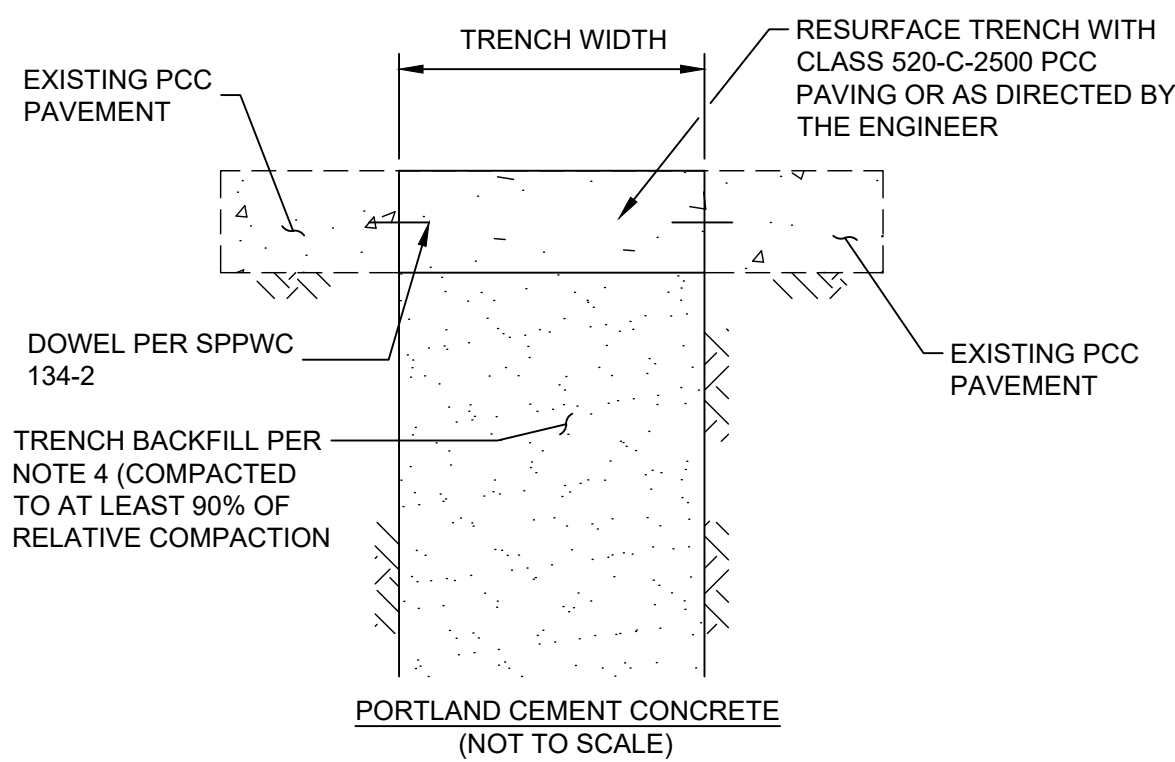


ALL ONSITE WORK SHALL BE PER STD. SPEC. SECTION 02223.

- ALTERNATE TRENCH SECTIONS (A AND B) ARE FOR USE ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. WHERE BOULDERS OR LARGE OBSTRUCTIONS ARE ENCOUNTERED, THE TRENCH SECTION MAY BE WIDER AND DEEPER THAN THAT SHOWN. REMEDIAL MEASURES MAY THEN BE REQUIRED BY THE ENGINEER OR OWNER'S REPRESENTATIVE.
 - VERTICAL TRENCH WALLS-SECTION
i. FOR DEPTH UP TO 5 FEET, WHERE NOT SURCHARGED BY ADJACENT TRAFFIC OR EXISTING STRUCTURES, OR SATURATED WITH GROUND WATER, NO TRENCH SUPPORT IS REQUIRED.
 - COMBINATION OF VERTICAL AND SLOPING TRENCH WALL-SECTION
i. TRENCH DEPTH NOT EXCEEDING 5 FEET SHALL HAVE VERTICAL WALLS IN PIPE ZONE UNLESS OTHERWISE APPROVED, BY ENGINEER, OR WHERE SPECIFIED OR SURCHARGED.
ii. FOR TRENCHES WITH COMBINED WALLS AND ANY DEPTH EXCEEDING 5 FEET, DESIGN CALCULATIONS BY A REGISTERED CALIFORNIA CIVIL/STRUCTURAL ENGINEER OR USING METHODS PERMITTED BY THE CALIFORNIA CONSTRUCTION SAFETY ORDERS.
- WHERE WET, UNSTABLE OR RUNNING SOIL IS ENCOUNTERED, SOLID SHEETING IS REQUIRED FOR ALL VERTICAL TRENCH WALLS. WORK WILL STOP UNTIL NEW CALCULATIONS FOR SUCH ARE SUBMITTED AND ACCEPTED.
- BEDDING MATERIAL SHALL CORRESPOND WITH PIPE TYPE ACCORDINGLY.
- OPEN EXCAVATIONS SHOULD NOT BE MADE BELOW GROUND WATER LEVEL.

2 PCC REPLACEMENT DETAIL

SCALE: NTS

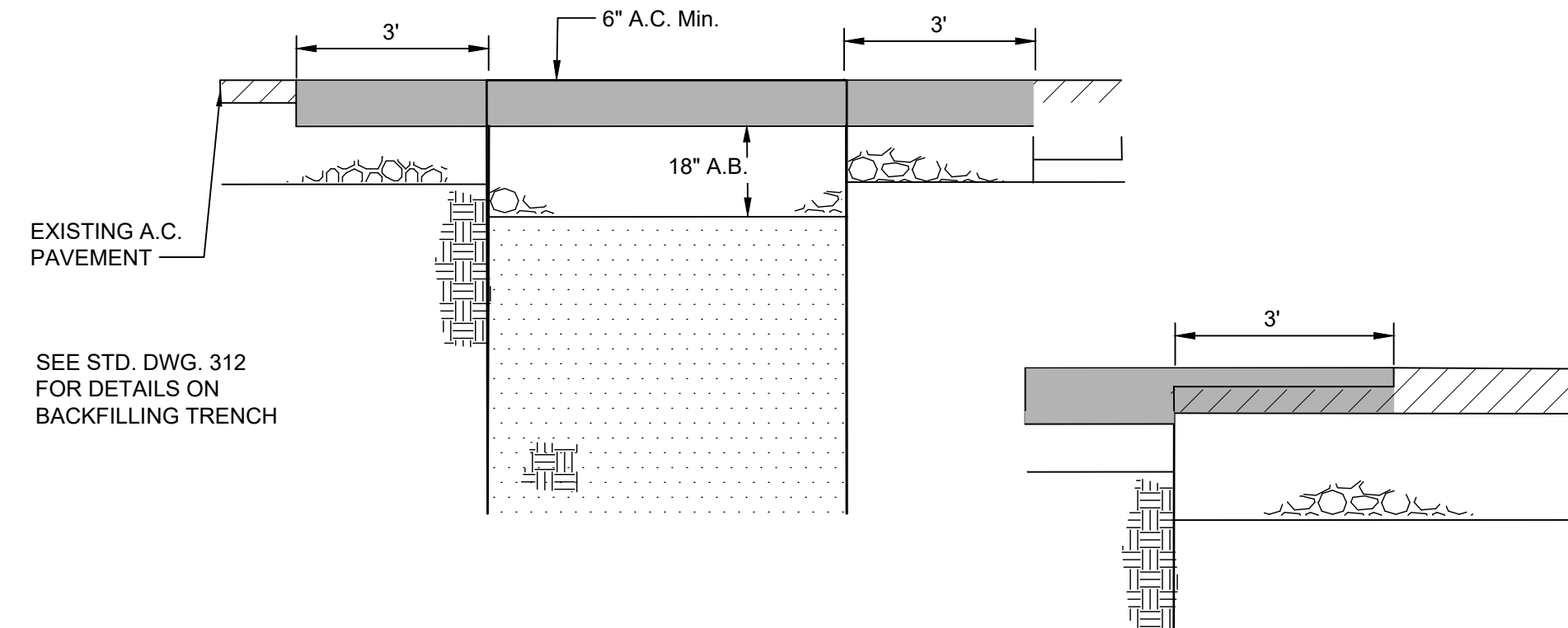


NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED STANDARD SPECIFICATION FOR PUBLIC WORK CONSTRUCTION (GREEN BOOK) AND PER REFERENCED STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION.
- ALL PAVEMENT REMOVALS SHALL BE MADE TO CLEAR STRAIGHT LINES SAW CUT TO A MINIMUM OF 1-1/2 INCHES DEEP. IF NEW CUT LINE IS LESS THAN THREE (3) FEET FROM PREVIOUS CUT LINES, OR LESS THAN THREE (3) FEET FROM CONCRETE EXPANSION JOINTS AND EDGES. THE EXISTING PAVEMENT SHALL BE REMOVED TO SAID CUT LINES, JOINTS AND EDGES OR AS DIRECTED BY THE ENGINEER.
- DURING TRENCHING EXCAVATIONS AND SUBGRADE PREPARATION, THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO INSURE THE PROTECTION OF ALL IMPROVEMENTS, WHETHER PUBLIC OR PRIVATE, INCLUDING UTILITIES AND THEIR SERVICES, FROM ANY DAMAGE THAT COULD OCCUR DUE TO THIS OPERATION.
- BACKFILL AND DENSIFICATION SHALL BE DONE IN CONFORMANCE WITH SECTION 306 OF THE STANDARDS SPECIFICATIONS, EXCEPT AS FOLLOWS:
A) TRENCH BACKFILL SHALL BE DENSIFIED TO A MINIMUM OF 90% RELATIVE COMPACTION.
B) WHEN PAVEMENT IS TO BE PLACED DIRECTLY ON SUBGRADE MATERIAL, THE TOP 6 INCHES OF SUBGRADE MATERIAL SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95%.
* MUST PROVIDE CERTIFIED COMPACTION FOR A) AND B) OR MAY SUBSTITUTE WITH SLURRY SAND BACKFILL, 1 SACK CEMENT PER CUBIC YARD
- TEMPORARY TRENCH RESURFACING SHALL BE PLACED AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER. IT SHALL BE PLACED LEVEL WITH THE EXISTING PAVEMENT ON COMPACTED TRENCH BACKFILL AND SHALL BE A MINIMUM OF 2 INCHES.
- EXISTING PAVEMENT SHALL BE CUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL.
- PERMANENT PAVEMENT RESURFACING SHALL BE DONE TWO (2) WEEKS AFTER BACKFILL OF TRENCHES HAS BEEN COMPLETED, AND ONLY AFTER SETTLEMENT HAS TAKEN PLACE AND THE FILL SURFACE HAS SUFFICIENTLY DRIED. ALL CUTS SHALL BE CLEAN AND STRAIGHT.
- PORTLAND CONCRETE CEMENT (PCC) STREETS WILL REQUIRE FULL PANEL REPLACEMENTS IF IMPACTED, DOWELING IS REQUIRED.
- DO NOT DISTURB EXISTING SOIL BELOW EXISTING CONCRETE NEXT TO THE SAWCUT. EXCAVATE DOWN TO THE INTENDED ELEVATION. CONTRACTOR TO PROVIDE SHORING FOR SOIL.

3 ARTERIAL STREET PIPE TRENCH BEDDING AND BACKFILL

SCALE: NTS

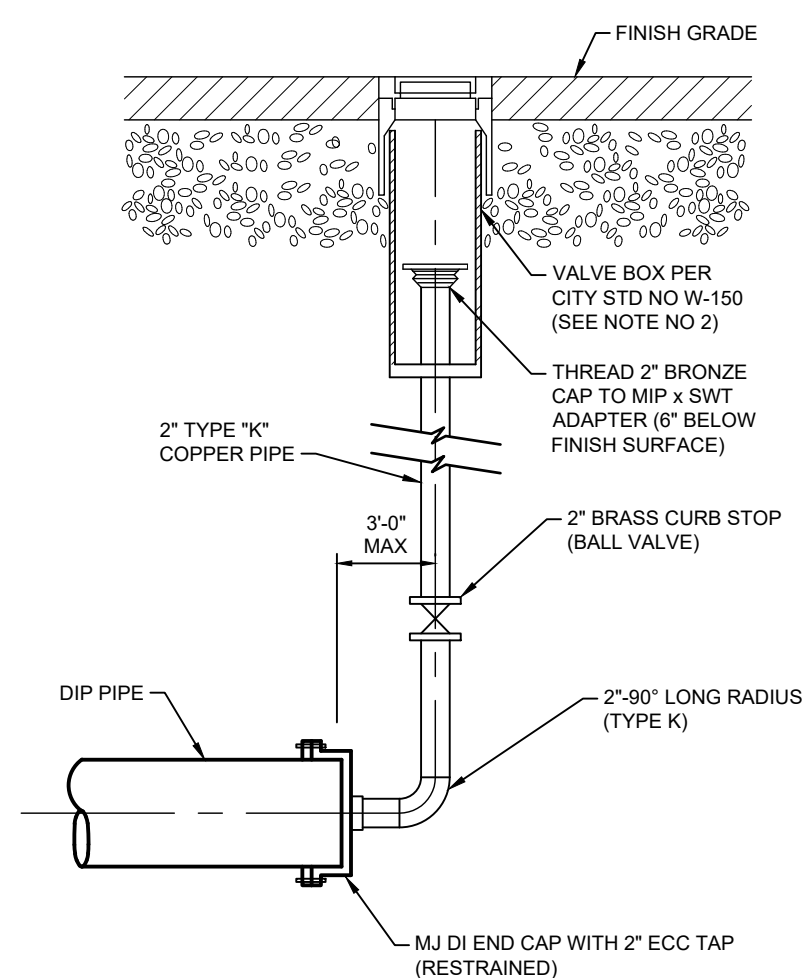


NOTES

- ALL OPEN-CUT PIPE INSTALLATION CROSSING ARTERIAL STREETS WILL REQUIRE SPECIAL APPROVAL BY THE CITY ENGINEER.
- UNLESS OTHERWISE APPROVED BY THE ENGINEERING DEPARTMENT, ALL UTILITIES CROSSING ARTERIAL STREETS SHALL BE CONSTRUCTED BY JACKING OR APPROVED BORING METHOD. NO OPEN TRANSVERSE UTILITY CUTS ARE PERMITTED.
- TRAFFIC CONTROL TO BE APPROVED BY THE CITY OF FULLERTON TRAFFIC ENGINEER PRIOR TO ANY EXCAVATION.
- EXISTING PAVEMENT SHALL BE SAWCUT 2" DEEP MINIMUM.
- AN ADDITIONAL 3 FOOT SIDE STRIP ON BOTH SIDES OF THE TRENCH SHALL BE REMOVED AND REPAVED. OPTION-IN LIEU OF A.C. REMOVAL, EXISTING A.C. MAY BE COLD PLANED A MINIMUM DEPTH OF 0.20'.
- THE ROADWAY STRUCTURAL SECTION SHALL BE REPLACED WITH 18" CRUSHED AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION AND AN A.C. SECTION 1" THICKER THAN THE EXISTING SECTION OR 6" MINIMUM A.C., WHICHEVER IS GREATER.
- SLURRY IS NOT A PERMITTED BACKFILL MATERIAL.
- THE FINAL A.C. CAP SHALL BE PLACED WITH A SELF PROPELLED PAVING MACHINE OR AN APPROVED PAVING DEVICE.
- ASPHALT MIX DESIGNED FOR THE BASE COURSE SHALL BE TYPE III/B-2PG 64-10 (3/4" COURSE) AND THE SURFACE COURSE SHALL BE TYPE III/C2-PG 64-10 (1/2" COURSE), OR AS APPROVED BY THE CITY.
- TELEPHONE, CABLE T.V., ELECTRICAL CONDUITS AND WIRINGS, AND GAS MAINS SHALL BE A MINIMUM OF 36" BELOW GRADE. UTILITIES IN THE PARKWAY SHALL BE A MINIMUM OF 30" BELOW THE FLOW LINE OF THE CURB AND GUTTER.
- ALL SEWER AND STORM DRAIN LINES SHALL BE VIDEO INSPECTED IN ADDITION TO OTHER TESTING REQUIRED PER THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS. (BALL AND FLUSH LINE SHALL BE AT NO COST TO THE CITY)

4 TEMPORARY TEST BULKHEAD DETAIL (DI PIPE)

SCALE: NTS

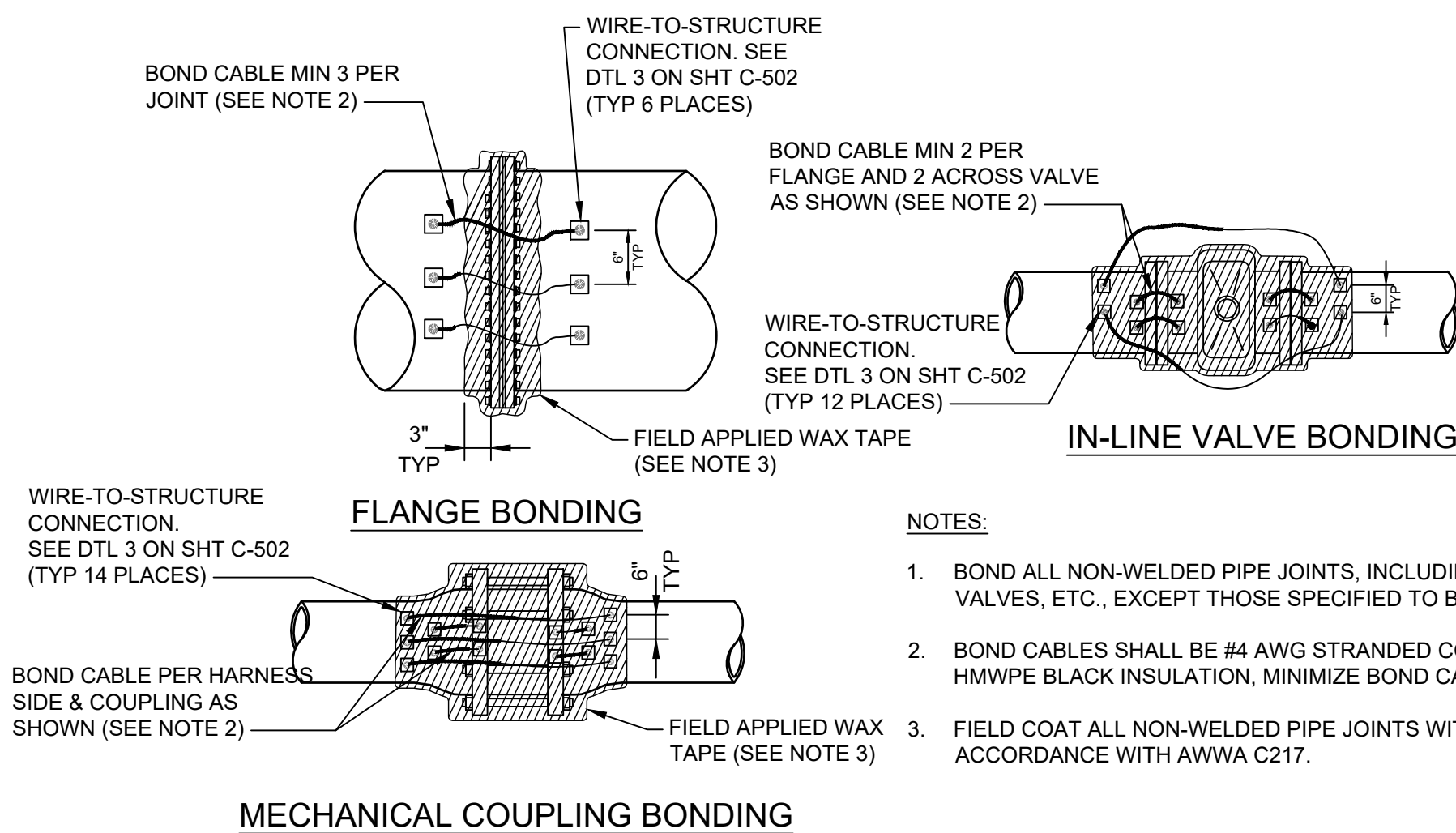


NOTES:

- TEST BULK HEAD IS TO BE REMOVED AFTER SUCCESSFUL PRESSURE TEST.
- VALVE CAN IS REQUIRED WHEN CALLED OUT ON THE PLANS. (NOT REQUIRED)

5 NON-WELDED JOINT BONDING

SCALE: NTS

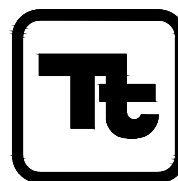


NOTES:

- BOND ALL NON-WELDED PIPE JOINTS, INCLUDING THOSE ON PIPE, FITTINGS, VALVES, ETC., EXCEPT THOSE SPECIFIED TO BE ELECTRICALLY INSULATED.
- BOND CABLES SHALL BE #4 AWG STRANDED COPPER, SINGLE CONDUCTOR W/ HMWPE BLACK INSULATION, MINIMIZE BOND CABLE LENGTHS.
- FIELD COAT ALL NON-WELDED PIPE JOINTS WITH PETROLATUM TAPE IN ACCORDANCE WITH AWWA C217.

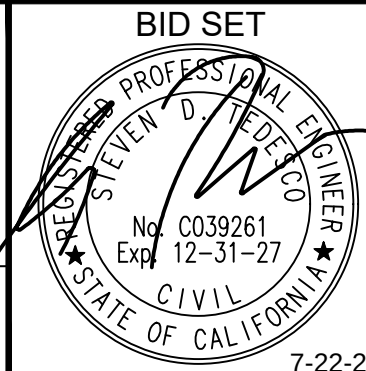
6 NOT USED

SCALE: NTS



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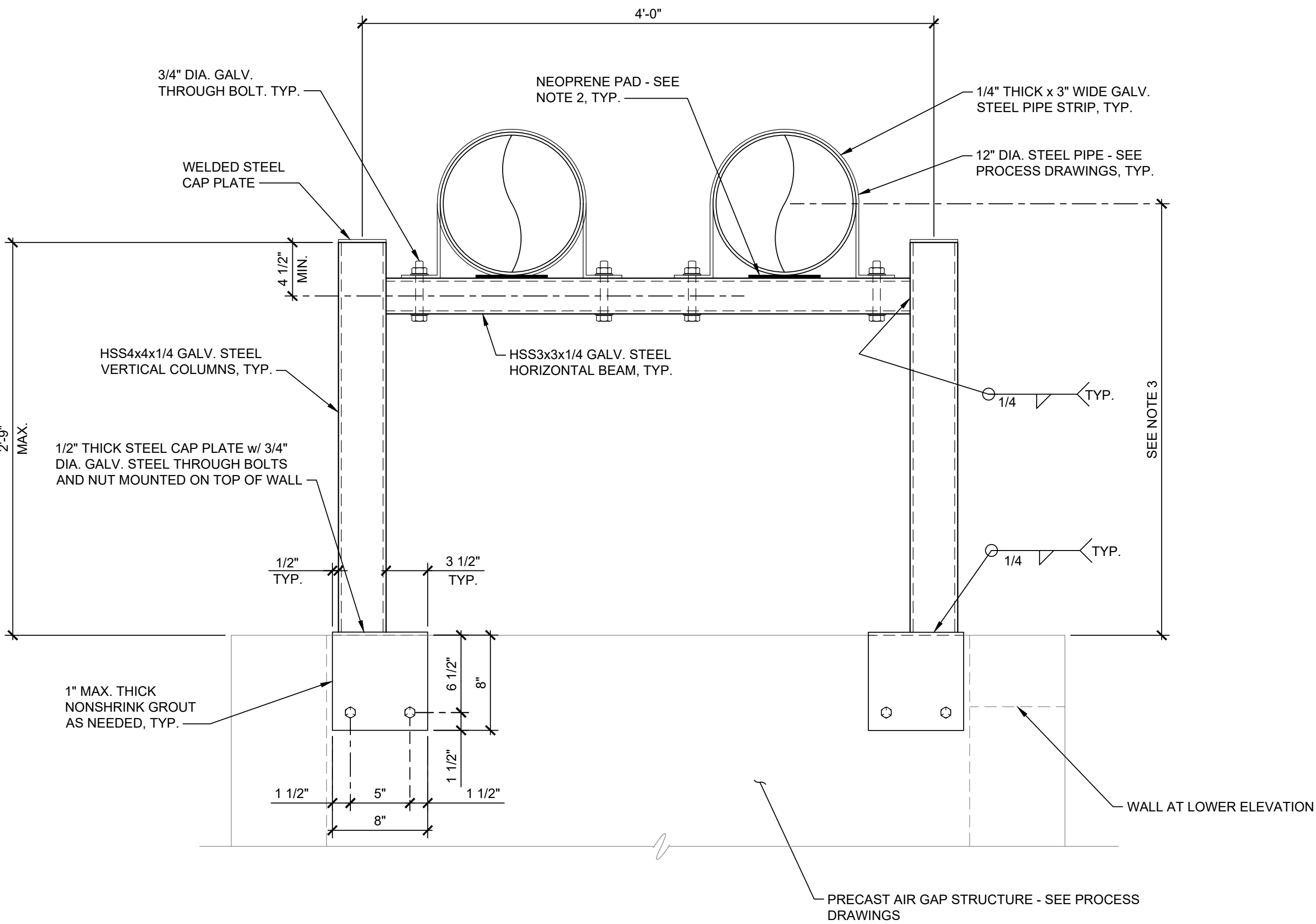
ORANGE COUNTY WATER DISTRICT

FULLERTON WELL 10
PFAS TREATMENT PROJECT
CIVIL DETAILS

PROJ: 200-09287-24001
DESN: K. MATSUMOTO
DRWN: N. MAO
CHKD: P. YU

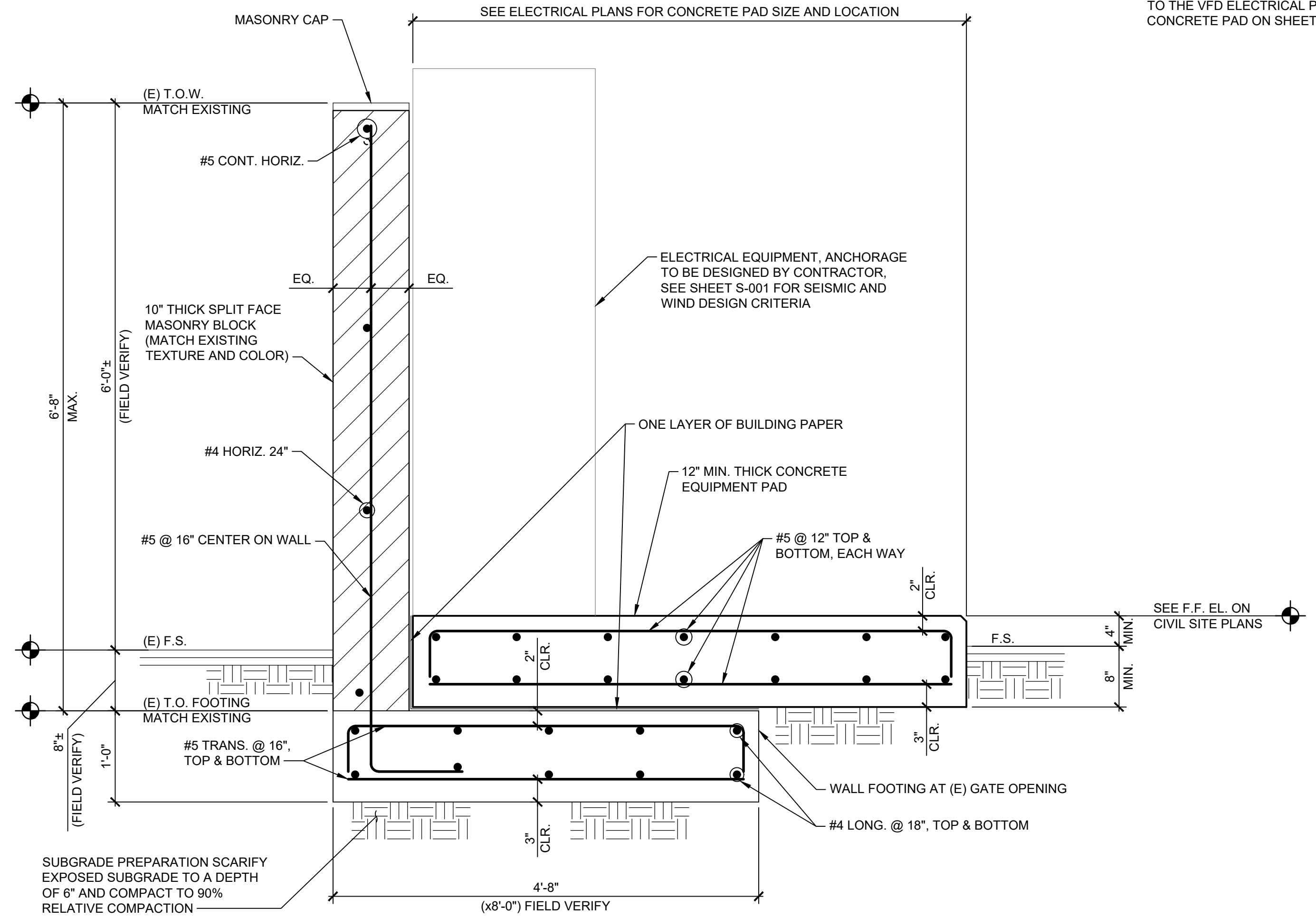
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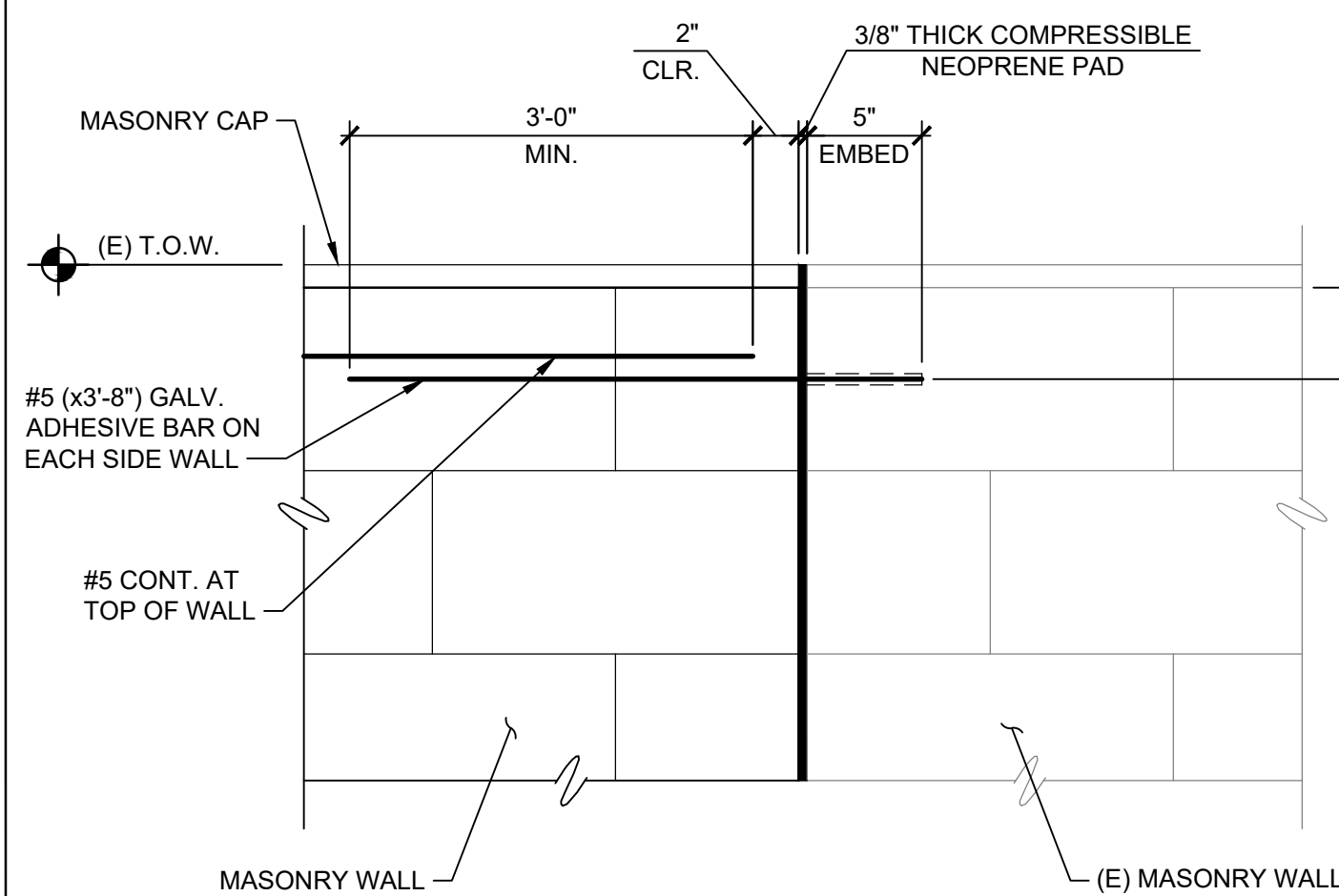


- NOTE:
1. PROVIDE A 1/2" THICK 40 DUROMETER NEOPRENE BEARING PADS CONFORMING TO A.S.T.M. D2000 GRADE 1. PADS SHALL BE MANUFACTURED BY DALCON INDUSTRIES (OR APPROVED EQUAL). THE WIDTH OF THE PAD SHALL MATCH THE WIDTH OF THE STEEL TUBE (IN THE DIRECTION PARALLEL TO PIPE) AND SHALL MATCH HALF OF THE NOMINAL PIPE DIAMETER (IN THE DIRECTION PERPENDICULAR TO THE PIPE).
 2. VERIFY ALL PIPE DIMENSIONS AND ELEVATION PRIOR TO FABRICATION.

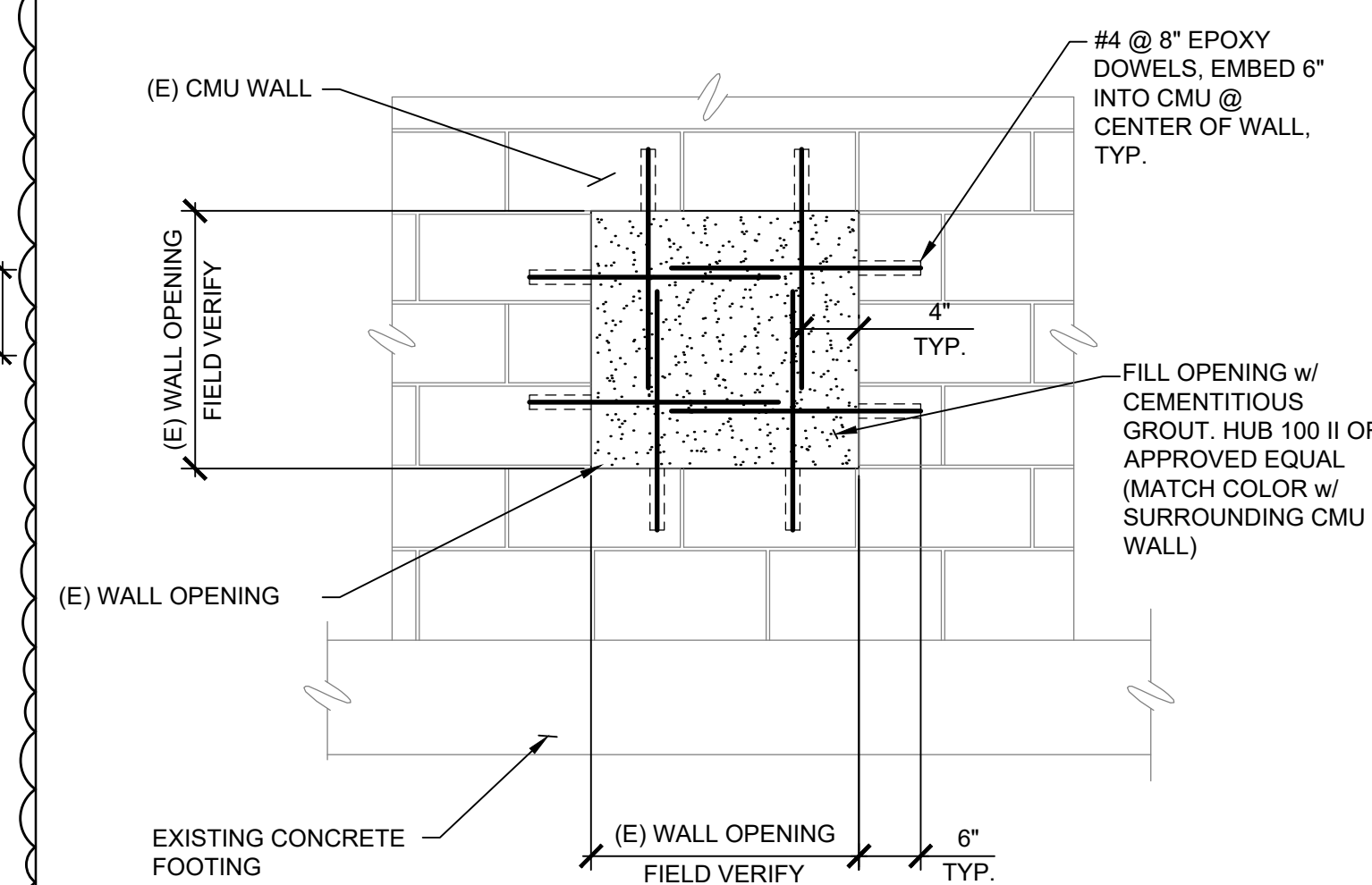
1 PIPE SUPPORT AT AIR GAP
SCALE: 1 1/2"=1'-0"



2 MASONRY WALL FOOTING DETAIL & EQUIPMENT PAD DETAIL
SCALE: 1"=1'-0"



3 TOP OF WALL CONNECTION
SCALE: 1 1/2"=1'-0"



4 ABANDON CMU WALL OPENING
SCALE: 1"=1'-0"

TETRA TECH

www.tetrattech.com

17885 Von Karman Ave, Suite 500
Irvine, CA 92614
Tel: (949) 809-5000

BID SET

REGISTERED PROFESSIONAL ENGINEER

ERIC HUTCHINS

No. 6177

STRUCTURAL

STATE OF CALIFORNIA

7/22/26

ORANGE COUNTY WATER DISTRICT

18700 WARD STREET
FOUNTAIN VALLEY, CALIFORNIA 92708
TELEPHONE (714) 378-3200



MARK	DATE	DESCRIPTION	BY
1	7/22/26	ADDENDUM 1	KB

ORANGE COUNTY WATER DISTRICT

FULLERTON WELL 10
PFAS TREATMENT PROJECT

STRUCTURAL DETAILS 2

PROJ: 200-09287-24001

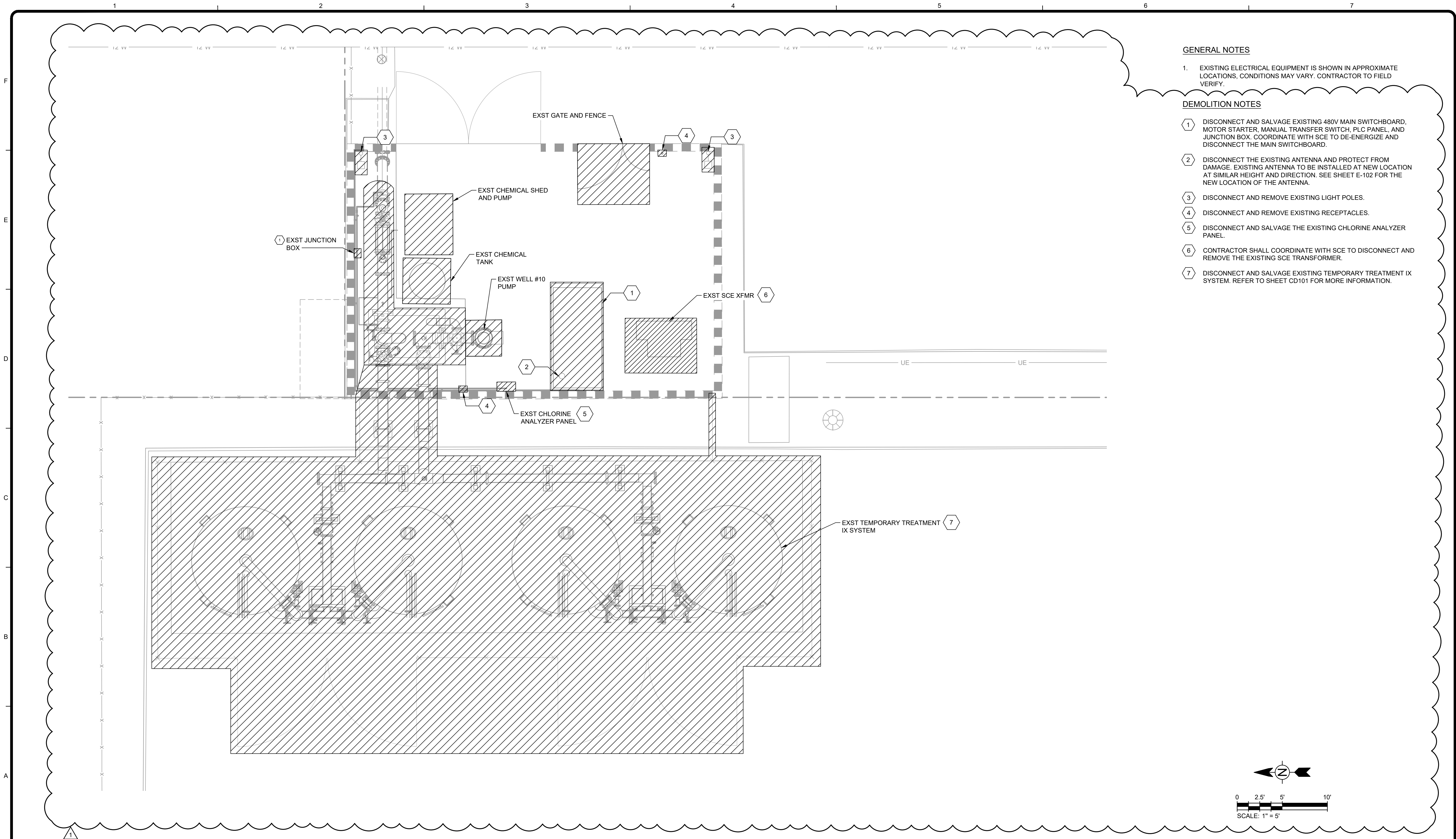
DES: J. QUIROZ

DRWN: E. HUTCHINS

CHKD: E. YUEN

S-502

7/22/2026 10:09:52 AM - C:\USERS\JOHNSON\LEDC\ACCD\CS\TETRA TECH\NC200-09287-24001-COF-WELL-10\PROJECT FILES\CAD\SH\FILESE-101 ELECTRICAL DEMOLITION PLAN.DWG - J.E. JOHNSON



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BID SET
REGISTERED PROFESSIONAL ENGINEER
No. E 65809
Exp. 12/31/26
J. LE
7/21/26

ORANGE COUNTY WATER DISTRICT
18700 WARD STREET
FOUNTAIN VALLEY, CALIFORNIA 92708
TELEPHONE (714) 378-3200

MARK	DATE	DESCRIPTION	BY
1	7/21/26	ADDENDUM 1	KB

ORANGE COUNTY WATER DISTRICT
FULLERTON WELL 10
PFAS TREATMENT PROJECT
ELECTRICAL DEMOLITION PLAN

PROJ: 200-09287-24001
DESN: J. LE
DRWN: J. LE
CHKD: M. KASSAR
E-101