



ADDENDUM NO. 1

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

April 3, 2023

This Addendum to the specifications is for the purpose of adding, clarifying, or deleting certain information to the Drawings and Specifications described above and shall be made part thereof, and subject to all applicable requirements hereunder as if originally shown and/or specified.

- 1. BID DATE: The bid date has changed to: Wednesday, April 12, 2023 at 2:00 p.m.
- 2. EMWD ENGINEERS ESTIMATE: The engineers estimate has been amended to \$2,300,000.

3. CONTRACT DRAWING CHANGES:

POC 24 Turf Removal Retrofit and Planting Plan added to specification/contract drawings attached herein.

POC 28 Turf Removal Retrofit and Planting Plan added to specification/contract drawings attached herein.

POC 28 Delta 1 (revisions dated March 24, 2023) added to specification/contract drawings attached herein.

POC 67 Delta 1 (revisions dated March 24, 2023) added to specification/contract drawings attached herein.

POC 70 Delta 1 (revisions dated March 24, 2023) added to specification/contract drawings attached herein.

For reference purposes, as-builts, controller charts, and Irrigation Plans can be viewed at: https://www.dropbox.com/sh/7lpxo1rjpanj1lr/AADC2BM6BV9y9Vk97Xv65102a?dl=0.

4. BIDDING FORM CHANGES:

Bidder must use the herein attached Bid Proposal Package when submitting bid.

Bid Item No. 20: Description amended to read "Proposed booster pump for Abelia Park. Connect and

upgrade existing electrical power per VWRPD directions and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from

nearby electrical source per local code."

Bid Item No. 21: Removed from bidding sheets.

Bid Item No. 23: Removed from bidding sheets.

- Bid Item No. 27: Removed from bidding sheets.
- Bid Item No. 28: Removed from bidding sheets.
- Bid Item No. A1: New bid item with a quantity of 1 LS. Description reads "30 Day Maintenance per Valley-Wide maintenance specifications."
- Bid Item No. A2: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. A3: New bid item with a quantity of 14 EA. Description reads "Replace existing valve with Rainbird drip valve per VRPWD detail. Install inside purple valve box per detail. Verify valve location in the field. Valve to be used for the new drip emitter irrigation system."
- Bid Item No. A4: New bid item with a quantity of 98, 300 SF. Description reads "Complete remove existing turf and plant shrub/groundcover per owner direction."
- Bid Item No. A5: New bid item with a quantity of 2,908 EA. Description reads "Install Rainbird XBT-20 threaded emitter with Salco or GPH flexible riser (1) per shrub) and (4) per existing tree. Install per turf retrofit plan."
- Bid Item No. A6: New bid item with a quantity of 1 LS. Description reads "Buried irrigation UVR laterals, ball valves, pressure regulators, check valves, fittings to each plant per turf retrofit plan per Valley-Wide low volume point-to-point details IR-02, IR-30, IR-31, IR-32, IR-33, IR-34 and IR-35."
- Bid Item No. A7: New bid item with a quantity of 490 LF. Description reads "Provide and install 6x6 concrete header per Valley-Wide detail LC-33 per turf retro-fit plans."
- Bid Item No. A8: New bid item with a quantity of 2,820 LF. Description reads "Stabilized decomposed granite per Valley-Wide detail LC-01 per turf retro-fit plans."
- Bid Item No. A9: New bid item with a quantity of 290 EA. Description reads "Provide and install 5 gal shrub per Valley-Wide detail PL-04 per turf retro-fit plans."
- Bid Item No. A10: New bid item with a quantity of 2,618 EA. Description reads "*Provide and install 1 gal shrub per Valley-Wide detail PL-04 per turf retro-fit plans.*"
- Bid Item No. A11: New bid item with a quantity of 84,400 SF. Description reads "Provide and install 3" Thick organic cover mulch per Valley-Wide detail PL-07 per turf retro-fit plans."
- Bid Item No. A12: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 45: Description amended to read "Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards."

- Bid Item No. 47: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. 48: Removed from bidding sheets.
- Bid Item No. 49: Description amended to read "Provide and install 6x6 concrete header per Valley-Wide detail LC-33."
- Bid Item No. A13: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 69: Description amended to read "Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards."
- Bid Item No. 71: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. 72: Removed from bidding sheets.
- Bid Item No. A14: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 92: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A15: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 108: Description amended to read "Provide and install 6x6 concrete header per Valley-Wide detail LC-33."
- Bid Item No. 110: Description amended to read "Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards."
- Bid Item No. 114: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A16: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."

- Bid Item No. 134: Description amended to read "Provide and install 6x6 concrete header per Valley-Wide detail LC-33."
- Bid Item No. 135: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A17: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 153: Description amended to read "Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards."
- Bid Item No. 155: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. 156: Removed from bidding sheets.
- Bid Item No. A18: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 175: Description amended to read "Relocate existing irrigation booster pump and enclosure to new location and reconnect to new recycled water point of connection (as shown on plan) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A19: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 185: Description amended to read "Provide and install 6x6 concrete header per Valley-Wide detail LC-33."
- Bid Item No. 186: Description amended to read "Replace existing Provide and install new booster pump per the specifications. See sheet 2 (Index Map) for existing booster pump location and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A20: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 205: Description amended to read "Provide and install 6x6 concrete header per Valley-Wide detail LC-33."
- Bid Item No. 207: Description amended to read "Provide and install irrigation booster pump per the specifications and details and provide and install electrical conduit, 240 VAC wiring

- and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A21: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 223: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A22: New bid item with a quantity of 1 LS. Description reads "Upgrade existing controllers per irrigation plans."
- Bid Item No. A23: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 240: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A24: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 259: Description amended to read "Install 6" PVC purple class 200 sleeve under existing decomposed granite trail/access road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing trail/access road must be per Valley-Wide standards."
- Bid Item No. 260: Description amended to read "Provide and install irrigation booster pump per specifications and detail and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A25: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 278: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A26: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 295: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."

- Bid Item No. A27: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 312: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards(see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source inside existing building per local code."
- Bid Item No. 313: Removed from bidding sheets.
- Bid Item No. 314: Removed from bidding sheets.
- Bid Item No. 315: Removed from bidding sheets.
- Bid Item No. 317: Removed from bidding sheets.
- Bid Item No. 318: Removed from bidding sheets.
- Bid Item No. A28: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. A29: New bid item with a quantity of 11,900 SF. Description reads "Complete remove existing turf and plant shrub/groundcover per owner direction."
- Bid Item No. A30: New bid item with a quantity of 400 EA. Description reads "Install to Rainbird XBT-20 threaded emitter with Salco or GPH flexible riser (1) per shrub) and (4) per existing tree. Install per turf retrofit plan."
- Bid Item No. A31: New bid item with a quantity of 3 EA. Description reads "Replace existing valve with Rain Bird drip valve per Valley-Wide detail. Install inside purple valve box per detail.
- Bid Item No. A32: New bid item with a quantity of 1 LS. Description reads "Buried irrigation UVR laterals, ball valves, pressure regulators, check valves, fittings to each plant per tur retrofit plan per Valley-Wide low volume point-to-point details IR-02, Ir-30, IR-31, IR-32, IR-33, IR-34 and IR-35."
- Bid Item No. A33: New bid item with a quantity of 115 EA. Description reads "Provide and install 5 gal shrub per Valley-Wide detail PL-04 per turf retrofit plans."
- Bid Item No. A34: New bid item with a quantity of 11,900 SF. Description reads "Provide and install 3" Thick organic cover mulch per Valley-Wide detail PL-07 per turf retrofit plans, or you could remove this bid item and provide separate bid items for these two retrofits."
- Bid Item No. A35: New bid item with a quantity of 285 EA. Description reads "Provide and install 1 gal shrub per Valley-Wide detail PL-04 per turf retrofit plans."
- Bid Item No. A36: New bid item with a quantity of 1 LS. Description reads "Sub-grade for vegetative swales per turf retrofit plans."

- Bid Item No. A37: New bid item with a quantity of 1 LS. Description reads "30 Day Maintenance per Valley-Wide maintenance specifications."
- Bid Item No. A38: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."
- Bid Item No. 335: Quantity amended to 285. Description amended to read "Provide and install 6x6 concrete header per Valley-Wide detail LC-33."
- Bid Item No. 336: Description amended to read "Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code."
- Bid Item No. A39: New bid item with a quantity of 1 LS. Description reads "Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work."

5. CLARIFYING ITEMS:

Clarification No. 1: Contractor must obtain an encroachment permit with the County of Riverside

prior to the installation of street crossings.

Clarification No. 2: Contractor must obtain an encroachment permit with the County of Riverside

prior to removal of turf and installation of irrigation and planting within

Emerald Drive right-of-way per POC 82 turf retrofit plans.

Clarification No. 3: POC 49 service line and meter location to be located approximately 15 feet

south of existing electrical vault and manhole along Pourroy Road just south

of Jubilee Road.

Clarification No. 4: POC 70 service line and meter location to be located approximately 60 feet

south of existing potable water meter along Pourroy Road just south of Via

San Lucas.

6. MANDATORY PRE-BID WALK-THRU ATTENDEES:

James Potter – Adame Landscape Luis Alvarez – Adame Landscape Brett Selcanto – RE Chaffee Construction Pat Joyce – Three Peaks Corp

Tom Handwerk – Griffith Company

Gregg Worthington – Valley-Wide Recreation Joe Walsh – Valley-Wide Recreation James Salvador – Valley-Wide Recreation Justin Schweitzer – Valley-Wide Recreation Anissa Smith – Valley-Wide Recreation

7. SUBMITTED QUESTIONS AND ANSWERS:

No Questions Were Submitted

Sincerely,

Justin Schweitzer, Special Projects Supervisor

Valley-Wide Recreation and Park District





PROPOSAL PACKAGE INFORMATION SHEET

PROJECT NAME: FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

<u>NOTICE TO BIDDER:</u> The attached Proposal Package, when complete by you and returned to this District, constitutes your Bid on this project. **Please do not submit the bound copy of the specifications or addenda with your Bid.**

The envelope enclosing the proposal **MUST** be sealed and addressed as follow:

Regular, Express Mail, FedEx or Hand-Deliver

Valley-Wide Recreation and Park District

Attention: Justin Schweitzer 901 W. Esplanade Avenue San Jacinto, CA 92581

The envelope <u>MUST</u> be plainly marked in the upper left hand corner with the name and address of the bidder, and bear the words:

Proposal for:

(Project Name) (Date and Hour)

SIGN, COMPLETE, AND SUBMIT THE FOLLOWING:

- Proposal Sheet (C3-1) Signature required!
- Bidding Sheets & Equipment and Material List (BS-1 thru 60)
- Bidder's Experience Record & Resumes of Key Personnel (BR-1 thru 8)
- Subcontractors List (C-5(d) thru (e))
- Public Works Contractor Registration Certification (C22-1) Attach extracts of Bidder & Subs listed on Designation of Subcontractors form. Go to: https://efiling.dir.ca.gov/PWCR/Search
- Contractor's Licensing Statement (C6-1)
- Non-collusion Declaration (C7-1)
- Workers' Compensation Insurance Certificate (C11-1)
- Iran Contracting Act Certification (C13-1) (only required if bid is over \$1 million)
- Cal/OSHA Form 300A (C16-1 thru 2)
- Bid Guarantee (per Notice Inviting Bids and Instructions to Bidders)
 If Bid Bond, must be signed By You and Your Surety Company-Surety Acknowledgement required. Notary Acknowledgement required or Surety and Contractor

PLEASE COMPLETE AND SIGN ALL REQUIRED AREAS. SUBMIT AND ATTACH ANY ADDITIONAL DOCUMENTATION WHICH CONSTITUTES YOUR BID

FAILURE TO COMPLETE THIS PROPOSAL PACKAGE MAY RENDER YOUR BID "NON-RESPONSIVE"

Please Remove This Information Sheet Prior to Submitting Your Bid

PROPOSAL

The undersigned hereby declares, as Bidder, that the only persons or parties interested in this proposal as principals are those named herein; that no director or any other officer or employee of the Valley-Wide Recreation District is in any manner interested directly or indirectly in this proposal or in the profits to be derived from the contract proposed to be taken; that this bid is make without any connection with any person or persons making a bid for the same purpose; that the bid is in all respects fair and without collusion or fraud; that he has read the Notice Inviting Bids (or Bidding Information) and the Instructions to Bidders and agrees to all the stipulations contained herein; that he proposes and agrees that if his bid as submitted in the attached sheets, be accepted he will contract in the form so approved and furnish the items called for in accordance with the provisions of said approved form of Agreement and the Specifications and to deliver the same within the time stipulated therein; and that he will accept in full payment therefore the prices named in said Bid Sheet.

The Bidder further agrees, that upon receipt of written notice of acceptance of the proposal with 60 days after the day of opening bids (unless otherwise specified in the Notice Inviting Bids or Bidding information) he will execute and return the Contract in accordance with the proposal as accepted and furnish the required bond(s) within **ten (10)** days from the date of mailing the Notice of Acceptance of Proposal to him at his address given below, or within such time as allowed by Valley-Wide; and that upon his failure or refusal to do so within the said time, then the certified or cashier's check or bond accompanying this bid shall become the property of and be retained by Valley-Wide as liquidated damages for such failure or refusal, and shall be deposited with the Accountant of said Valley-Wide as monies belonging to Valley-Wide; provided, that if said Bidder shall execute the Contract and furnish the required bond within the time aforesaid, his check or bond shall be returned to him thereafter.

The Bidder further declares that the surety or sureties named in the attached sheet have agreed to furnish bond in form and amount set forth in the accompanying Notice Inviting Bids (or Bidding Information) and Article 11 of the Instructions to Bidders, in the event contract is awarded on basis of this proposal.

Company:

Address:	Date:
By:(Print Name) Name should appear below)	(Signature of Owner or Officer required)
Name)s) of Member of Firm or Officer of Corporation Authorized to enter into a binding Contract:	Address (if different from above)
For further detail on this proposal, please contac	ot:
Name:	Address:
Email Address:	Telephone:

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

BIDDING SHEETS

	lley-Wide Recreation and Park District office, located at 901 W. o, California, until Wednesday, April 12th, 2023 2:00 p.m.
NAME OF BIDDER:	
To the Board of Direct of the Valley-Wide Re- 901 W. Esplanade Ave San Jacinto, California	creation and Park District enue
	re that we have carefully examined the location of the proposed ined the Contract Documents, including all plans, specifications, following Project:
French	Valley Recycled Water Retrofit Project Phase Three
	Il labor, materials, equipment, tools, transportation, and services, obligations necessary and required to perform and complete the BID PRICE:
Total Bid Amount in Numerals:	\$
Total Bid Amount in Words: _	\$
The undersigned acknowledge addenda to the Contract Docum	receipt, understanding, and full consideration of the following nents:
Addenda and/or Letter of Clarifi	cation
specifications, whether acknowledge further agrees to perform all la	ifies that any addenda and letters of clarification issued to these edged or not below, shall be made a part of the contract. Bidder bor and services and furnish all materials, tools and appliances ork called out in the addenda or letter of clarification.
Addenda Received:	

Letter of Clarification received:

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BIDDING SHEETS

The Contractor shall construct the project under these Specifications all in conformance with the Contract Drawings listed in Section P and these Specifications

The District reserves the right to:

- A. Accept or reject any or all bids on this specification;
- B. Award Contract to the lowest qualified bidder, based on the total bid price;
- C. Waive any defects and informalities.

The District shall be the final authority with regard to whether a bid is responsive to the call for bids and to whether a bidder is a responsible bidder under the conditions of his bid, or for any reason.

The total contract price shall include all work, materials, and equipment needed to complete the project as defined in the General Conditions, Section F. The bidder shall include costs for such other items in the most appropriate category (bid item).

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

and reflected in the unit process for payment purposes. If the addition/deduction affects more than one bid item, the proportionate application of the addition/deduction shall be mutually agreed upon by the Contract and the District at the prejob. Person who inspected site of the proposed work as an employee of your firm: (Representative must have inspected the jobsite and be employee on the company's payroll to be considered a responsive bidder)
and reflected in the unit process for payment purposes. If the addition/deduction affects more than one bid item, the proportionate application of the addition/deduction shall be mutually
addition/deduction in their bid, if desired, to reflect any last minute adjustments in process. The addition/deduction, if made, will be proportionately applied to item(s) (fill in

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
1	1	LS	Mobilization pert Article 6 of General Conditions (not to exceed 10% of bid).	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
			POC #24		
2	1	EA	Install new 3" Recycled water meter per EMWD standards PB-13. Water meter will be provided by EMWD.	\$	\$
			(Unit Price Written in Words)		
3	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
			(Unit Price Written in Words)	\$	\$
4	1	EA	Provide and install Yardney strainer MCS3-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details (Unit Price Written in Words)	\$	\$
5	1	EA	Provide and install Buckner Superior 3300 normally open master valve (size:3") per detail. Run wires to existing irrigation controller location.	\$	\$
			(Unit Price Written in Words)		
6	1	EA	Provide and install Calsense flow sensor (Size:3"). Install per detail. Run wires to existing irrigation controller.		
			(Unit Price Written in Words)	\$	\$
7	1	EA	Provide and install 1" ball valve inside round purple valve box.		
			(Unit Price Written in Words)	\$	\$

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Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
8	1,700	LF	Provide and install 4" class 315 PVC purple recycled water irrigation mainline with ductile iron fittings (bury 36" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words)	\$	\$
9	100	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.	\$	\$
10	22	EA	(Unit Price Written in Words) Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
11	3	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe. Remove existing backflow preventer and equipment.		
			(Unit Price Written in Words)	\$	\$
12	48	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
13	209	EA	Replace all existing irrigation valve box and lid with purple recycled water and label accordingly.		
			(Unit Price Written in Words)	\$	\$
14	3	EA	Existing domestic irrigation water meter to be removed (By Others).		
			(Unit Price Written in Words)	\$	\$

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Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
15	3	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe. (Unit Price Written in Words)	\$	\$
16	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting. (Unit Price Written in Words)	\$	\$
17	2	EA	Provide and install new gate valve per VWRPD standard detail. (Unit Price Written in Words)	\$	\$
18	40	LF	Install 8" PVC purple Schedule 40 sleeve across bridge. (Unit Price Written in Words)	\$	\$
19	3	EA	Remove existing master valve and flow sensor. Relocate booster pump. Cut and cap mainline. (Unit Price Written in Words)	\$	\$
20	1	EA	Proposed booster pump for Abelia Park. Connect and upgrade existing electrical power per VWRPD directions and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code. (Unit Price Written in Words)	\$	\$

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Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
21			This item has been removed from the bidding sheets, per Addendum No. 1.	(right)	
22		X	This item has been removed from the bidding sheets, per Addendum No. 1.		
23		X	This item has been removed from the bidding sheets, per Addendum No. 1.		
24	1	EA	Remove existing drinking fountain and pipe. (Unit Price Written in Words)	\$	\$
25	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.	\$	\$
26	1	LS	(Unit Price Written in Words) Upgrade existing controllers (add antennas per plan). (Unit Price Written in Words)	\$	\$
27			This item has been removed fr.om the bidding sheets, per Addendum No. 1		
28			This item has been removed from the bidding sheets, per Addendum No. 1.		
A1	1	LS	30 Day Maintenance per Valley-Wide maintenance specifications. (Unit Price Written in Words)	\$	\$
			(Sint Files Wittell III Words)		

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Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
A2	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.	(Figures)	(Figures)
				\$	\$
		PC	(Unit Price Written in Words) OC #24 TURF REMOVAL RETROFIT AND PLA	NTING PLAN	
A3	14	EA	Replace existing valve with Rainbird drip		
7.0			valve per VRPWD detail. Install inside purple valve box per detail. Verify valve location in the field. Valve to be used for the new drip emitter irrigation system.		
				\$	\$
0.4	00.000	05	(Unit Price Written in Words)		
A4	98,300	SF	Complete remove existing turf and plant shrub/groundcover per owner direction.		
			(Unit Price Written in Words)	\$	\$
A5	2,908	EA	Install Rainbird XBT-20 threaded emitter with Salco or GPH flexible riser (1) per shrub) and (4) per existing tree. Install per turf retrofit plan.		
				\$	\$
			(Unit Price Written in Words)		
A6	1	LS	Buried irrigation UVR laterals, ball valves, pressure regulators, check valves, fittings to each plant per turf retrofit plan per Valley-Wide low volume point-to-point details IR-02, IR-30, IR-31, IR-32, IR-33, IR-34 and IR-35.		
				\$	\$
			(Unit Price Written in Words)		
A7	490	LF	Provide and install 6x6 concrete header per Valley-Wide detail LC-33 per turf retro-fit plans.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
A8	2,820	LF	Stabilized decomposed granite per Valley-Wide detail LC-01 per turf retro-fit plans.		
				\$	\$
			(Unit Price Written in Words)		
A9	290	EA	Provide and install 5 gal shrub per Valley- Wide detail PL-04 per turf retro-fit plans.		
				\$	\$
			(Unit Price Written in Words)		
A10	2,618	EA	Provide and install 1 gal shrub per Valley- Wide detail PL-04 per turf retro-fit plans.		
				\$	\$
			(Unit Price Written in Words)		
A11	84,400	SF	Provide and install 3" Thick organic cover mulch per Valley-Wide detail PL-07 per turf retro-fit plans.		
			(Unit Price Written in Words)	\$	\$
A12	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		
			POC #28		
29	1	EA	Install new 2" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.		
				\$	\$
20	4	Ε^	(Unit Price Written in Words)		
30	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
31	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details. (Unit Price Written in Words)	\$	\$
32	2	EA	Provide and install Buckner Superior 3300 normally open master valve (size:2") per detail. Run wires to existing irrigation controller location. (Unit Price Written in Words)	\$	\$
33	2	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller. (Unit Price Written in Words)	\$	\$
34	1	EA	Provide and install 1" ball valve inside round purple valve box (Unit Price Written in Words)	\$	\$
35	780	LF	Provide and install 3" class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words)	\$	\$
36	130	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction. (Unit Price Written in Words)	\$	\$
37	38	EA	Provide and install recycled water signage per EMWD standards. (Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
38	3	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
				\$	\$
39	43	EA	(Unit Price Written in Words) Replace existing quick coupler with Nelson		
		_, 、	7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
				\$	\$
- 10	1.50		(Unit Price Written in Words)		
40	152	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
				\$	\$
			(Unit Price Written in Words)		
41	3	EA	Existing domestic irrigation water meter to be removed (By Others)		
				\$	\$
			(Unit Price Written in Words)		
42	3	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.		
				\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
43	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting.		
				\$	\$
			(Unit Price Written in Words)	,	
44	2	EA	Provide and install Nibco T-113 gate valve (mainline size). To be installed per detail.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
45	160	LF	Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards.		
			(Unit Price Written in Words)	\$	\$
46	3	EA	Remove existing master valve, flow sensor and isolation valve. Cut and cap mainline.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
47	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
				\$	\$
48			(Unit Price Written in Words)		
48		X	This item has been removed from the bidding sheets, per Addendum No. 1		
49	10	LF	Provide and install 6x6 concrete header per Valley-Wide detail LC-33.		
				\$	\$
50	1	LS	(Unit Price Written in Words) Remove existing irrigation valve and valve box.		
				\$	\$
E1	1	1.0	(Unit Price Written in Words)		
51	1	LS	Upgrade existing Calsense controller(s) per irrigation plans.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
52	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
A13	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
			(Unit Drice Written in Words)	\$	\$
			(Unit Price Written in Words) POC #35		
53	1	EA	Install new 2" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$
54	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
			(Unit Price Written in Words)	\$	\$
55	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
56	1	EA	Provide and install Buckner Superior 3300 normally open master valve (size:2") per detail. Run wires to existing irrigation controller location.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
57	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.	\$	\$
50	4	ΕΛ	(Unit Price Written in Words)		
58	1	EA	Provide and install 1" ball valve inside round purple valve box.	\$	\$
	110		(Unit Price Written in Words)		
59	110	LF	Provide and install 3" class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.	\$	\$
			(Unit Price Written in Words)	· 	
60	40	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
				\$	\$
			(Unit Price Written in Words)		
61	18	EA	Provide and install recycled water signage per EMWD standards.	\$	\$
			(Unit Price Written in Words)		
62	2	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
				\$	\$
			(Unit Price Written in Words)		
63	23	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
64	89	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.	\$	¢.
			(Unit Price Written in Words)	Ψ	Ψ
65	2	EA	Existing domestic irrigation water meter to be removed (By Others).		
			(Unit Price Written in Words)	\$	\$
66	2	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.		
			(Unit Price Written in Words)	\$	\$
67	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting.		
			(Unit Price Written in Words)	\$	\$
68	1	EA	Provide and install Nibco T-113 gate valve (mainline size). To be installed per detail.		
			(Unit Price Written in Words)	\$	\$
69	70	LF	Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
70	2	EA	Remove existing master valve, flow sensor, isolation valve and fertilizer injector. Cut and cap mainline.	\$	\$
			(Unit Price Written in Words)		
71	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.	¢.	¢.
			(Unit Price Written in Words)	\$	\$
72		X	This item has been removed from the bidding sheets, per Addendum No. 1		
73	1	LS	Upgrade existing Calsense controller(s) per irrigation plans.		
			/Unit Dries Written in Words	\$	\$
74	1	LS	(Unit Price Written in Words) Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.	\$	\$
			(Unit Price Written in Words)		·
A14	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		
75	1	EA	Install new 1.5" Recycled water meter per EMWD standards PB-11. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
76	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.	\$	\$
			(Unit Price Written in Words)		
77	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
78	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location.		
			(Unit Price Written in Words)	\$	\$
79	1	EA	Provide and install Calsense flow sensor (Size:1"). Install per detail. Run wires to existing irrigation controller.		
				\$	\$
			(Unit Price Written in Words)	-	·
80	1	EA	Provide and install 1" ball valve inside round purple valve box.		
				\$	\$
2.1			(Unit Price Written in Words)		
81	50	LF	Provide and install 2.5" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
82	100	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
			(Unit Price Written in Words)	\$	\$
83	5	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
84	1	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$
85	6	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
86	20	EA	Replace all existing irrigation valve box's lids with purple recycled water and label accordingly.		
			(Unit Price Written in Words)	\$	\$
87	1	EA	Existing domestic irrigation water meter to be removed (By Others).		
			(Unit Price Written in Words)	\$	\$
88	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
89	1	EA	Connect propose new master valve and flow sensor wires to existing controller.		
			(Unit Price Written in Words)	\$	\$
90	2	EA	Provide and install Nibco T-113 gate valve (mainline size). To be installed per detail.		
			(Unit Price Written in Words)	\$	\$
91	1	EA	Remove existing master valve, flow sensor. Cut and cap mainline.		
			(Unit Price Written in Words)	\$	\$
92	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
93	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
A15	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
			POC #47	(1.5.1.00)	(Figure 2)
94	1	EA	Install new 2" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.	\$	\$
			(Unit Price Written in Words)		
95	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
96	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
97	1	EA	Provide and install Buckner Superior 3300 normally open master valve (size:2") per detail. Run wires to existing irrigation controller location.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
98	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
			(Unit Price Written in Words)	\$	\$
99	1	EA	Provide and install 1" ball valve inside round purple valve box.		
			(Unit Price Written in Words)	\$	\$
			(Silit Filot Wittell III Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
100	300	LF	Provide and install 3" class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words)	\$	\$
101	200	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
			(Unit Price Written in Words)	\$	\$
102	26	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
103	3	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$
104	52	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
105	101	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
			(Unit Price Written in Words)	\$	\$
106	2	EA	Existing domestic irrigation water meter to be removed (By Others).		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
107	2	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe. (Unit Price Written in Words)	\$	\$
108	540	LF	Provide and install 6x6 concrete header per		
			Valley-Wide detail LC-33.	\$	\$
109	1	EA	(Unit Price Written in Words) Provide and install Nibco T-113 gate valve		
100	'	LA	(mainline size). To be installed per detail.	\$	\$
			(Unit Price Written in Words)		
110	70	LF	Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards.		
				\$	\$
			(Unit Price Written in Words)		
111	2	EA	Remove existing master valve and flow sensor. Cut and cap mainline.	\$	\$
112	1	LS	(Unit Price Written in Words) Provide and install POC equipment for Zion		
112	ı	LS	greenbelt potable irrigation system. (1" Backflow Preventer, 1.5" Master valve and 1.5" Flow sensor).		
				\$	\$
110	4	Ε.Δ	(Unit Price Written in Words)		
113	1	EA	Provide and install new irrigation controller (see controller note) for potable water irrigation for Zion greenbelt.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
114	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
115	1	LS	Upgrade existing Calsense controller(s) per irrigation plans.		
				\$	\$
116	1	LS	(Unit Price Written in Words) Provide purple cap for recycled water		
110	ı	LS	identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
A16	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		
117	1	EA	POC #49 Install new 1" Recycled water meter per		
117	'	LA	EMWD standards PB-12. Water meter will be provided by EMWD.		
				\$	\$
118	1	EA	(Unit Price Written in Words) Provide and install Nelson 7645 (1") quick		
110		LA	coupler valve with acme thread and purple locking cover.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

To be installed above ground with stainless steel enclosure per manufacturer standard and details. S	Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
Cunit Price Written in Words	119	1	EA	To be installed above ground with stainless steel enclosure per manufacturer standard	¢.	¢.
normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location. Cunit Price Written in Words				(Unit Price Written in Words)	Φ	Φ
Cunit Price Written in Words	120	1	EA	normally closed master valve (size:2") per detail. Run wires to existing irrigation		
121 1 EA Provide and install Calsense flow sensor (Size:1"). Install per detail. Run wires to existing irrigation controller. Cunit Price Written in Words \$					\$	\$
(Size:1"). Install per detail. Run wires to existing irrigation controller. (Unit Price Written in Words) 122	101	4	Ε.Δ			
Cunit Price Written in Words S S S	121	1	EA	(Size:1"). Install per detail. Run wires to		
122 1 EA Provide and install 1" ball valve inside round purple valve box. Cunit Price Written in Words S					\$	\$
purple valve box.						
(Unit Price Written in Words) 123 50 LF Provide and install 2" Sch. 40 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words) 124 100 LF Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box	122	1	EA			
123 50 LF Provide and install 2" Sch. 40 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words) 124 100 LF Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box					\$	\$
recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words) 124 100 LF Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box				1		
(Unit Price Written in Words) 124 100 LF Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box	123	50	LF	recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation		
124 100 LF Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box					\$	\$
master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box	101	100	1.5			
	124	100	LF	master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box		
(Unit Price Written in Words) \$ \$				(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
125	10	EA	Provide and install recycled water signage per EMWD standards. (Unit Price Written in Words)	\$	\$
126	1	EA	Cut and cap existing irrigation mainline-provide a minimum of 4ft separation. Remove unused pipe. (Unit Price Written in Words)	\$	\$
127	6	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail. (Unit Price Written in Words)	\$	\$
128	19	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly. (Unit Price Written in Words)	\$	\$
129	1	EA	Existing domestic irrigation water meter to be removed (By Others). (Unit Price Written in Words)	\$	\$
130	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe. (Unit Price Written in Words)	\$	\$
131	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting. (Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
132	2	EA	Provide and install Nibco T-113 gate valve (mainline size). To be installed per detail. (Unit Price Written in Words)	\$	\$
133	1	EA	Remove existing master valve, flow sensor. Cut and cap mainline. (Unit Price Written in Words)	\$	\$
134	10	LF	Provide and install 6x6 concrete header per Valley-Wide detail LC-33. (Unit Price Written in Words)	\$	\$
135	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
136	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.	\$	¢.
			(Unit Price Written in Words)	Φ	\$
A17	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words) POC #52		
137	1	EA	Install new 2" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
138	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
			(Unit Price Written in Words)	\$	\$
139	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
140	1	EA	Provide and install Buckner Superior 3300 normally open master valve (size:2") per detail. Run wires to existing irrigation controller location.		
			(Unit Price Written in Words)	\$	\$
141	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
				\$	\$
142	1	EA	(Unit Price Written in Words) Provide and install 1" ball valve inside round		
142	1	EA	purple valve box.		
				\$	\$
143	300	LF	(Unit Price Written in Words) Provide and install 3" class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
			(II ' D W '	\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
144	200	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
			(Unit Price Written in Words)	\$	\$
145	36	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
146	3	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$
147	45	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
148	115	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
			(Unit Price Written in Words)	\$	\$
149	3	EA	Existing domestic irrigation water meter to be removed (By Others).		
				\$	\$
150	3	EA	(Unit Price Written in Words) Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.		
			(Unit Price Written in Words)	\$	\$
			Onit i noo mitton in moras		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
151	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting.		
			(Unit Price Written in Words)	\$	\$
152	1	EA	Provide and install Nibco T-113 gate valve (mainline size). To be installed per detail.		
			(Unit Price Written in Words)	\$	\$
153	100	LF	Install 6" PVC purple class 200 sleeve under existing concrete sidewalk and road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing concrete, curb and asphalt must be per County of Riverside standards.		
			(Unit Price Written in Words)	\$	\$
154	3	EA	Remove existing master valve, flow sensor, isolation valve and fertilizer injector. Cut and cap mainline.		
			(Unit Price Written in Words)	\$	\$
155	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
156			This item has been removed from the bidding sheets, per Addendum No. 1		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
157	1	EA	Remove existing booster pump and enclosure. Return equipment to owner representative.	\$	\$
			(Unit Price Written in Words)	,	
158	1	LS	Upgrade existing Calsense controller(s) per irrigation plans.		
			(Unit Price Written in Words)	\$	\$
159	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
				\$	\$
140	4	1.0	(Unit Price Written in Words)		
A18	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words) POC #58		
160	1	EA	Install new 2" Recycled water meter per EMWD standards PB-10. Water meter will be provided by EMWD.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
161	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
				\$	\$
100	4	Ε^	(Unit Price Written in Words)		
162	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
163	2	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location. (Unit Price Written in Words)	\$	\$
164	2	EA	Provide and install Calsense flow sensor (Size:1.5"). Install per detail. Run wires to existing irrigation controller. (Unit Price Written in Words)	\$	\$
165	1	EA	Provide and install 1" ball valve inside round purple valve box. (Unit Price Written in Words)	\$	\$
166	40	LF	Provide and install 3" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.	\$	\$
167	60	LF	(Unit Price Written in Words) Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction. (Unit Price Written in Words)	\$	\$
168	18	EA	Provide and install recycled water signage per EMWD standards. (Unit Price Written in Words)	\$	\$
169	1	EA	Cut and cap existing irrigation mainline-provide a minimum of 4ft separation. Remove unused pipe. (Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
170	27	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.	\$	\$
171	88	EA	(Unit Price Written in Words) Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly. (Unit Price Written in Words)	\$	\$
172	1	EA	Existing domestic irrigation water meter to be removed (By Others). (Unit Price Written in Words)	\$	\$
173	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	\$	\$
174	1	EA	(Unit Price Written in Words) Remove existing master valve and flow sensor. Cut and cap mainline. (Unit Price Written in Words)	\$	\$
175	1	LS	Relocate existing irrigation booster pump and enclosure to new location and reconnect to new recycled water point of connection (as shown on plan) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code	¢.	¢.
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
176	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.	¢.	¢.
			(Unit Price Written in Words)	\$	\$
A19	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
			(Unit Price Written in Words)	\$	\$
			POC #59		
177	270	LF	Provide and install 3" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
			(Unit Price Written in Words)	\$	\$
178	12	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
179	1	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$
180	5	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Drice Written in Words)	\$	\$
181	28	EA	(Unit Price Written in Words) Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
182	1	EA	Existing domestic irrigation water meter to be removed (By Others).	\$	\$
183	1	EA	(Unit Price Written in Words)		
103	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	œ.	¢.
			(Unit Price Written in Words)	\$	\$
184	1	EA	Remove existing master valve and flow		
104	'	LA	sensor. Cut and cap mainline.		
				\$	\$
405	0.5	1.5	(Unit Price Written in Words)		
185	25	LF	Provide and install 6x6 concrete header per Valley-Wide detail LC-33.		
				\$	\$
			(Unit Price Written in Words)		
186	1	EA	Replace existing - Provide and install new booster pump per the specifications. See sheet 2 (Index Map) for existing booster pump location and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
				\$	\$
			(Unit Price Written in Words)		-
187	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
				\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
A20	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
			POC #62		
188	1	EA	Install new 2" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD. (Unit Price Written in Words)	\$	\$
189	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.	\$	\$
			(Unit Price Written in Words)		
190	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
191	1	EA	Provide and install Buckner Superior 3300 normally open master valve (size:2") per detail. Run wires to existing irrigation controller location.		
				\$	\$
			(Unit Price Written in Words)		
192	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
			(Unit Price Written in Words)	\$	\$
193	1	EA	Provide and install 1" ball valve inside round purple valve box.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
194	320	LF	Provide and install 3" class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words)	\$	\$
195	300	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.	¢.	¢.
196	17	EA	(Unit Price Written in Words) Provide and install recycled water signage per EMWD standards. (Unit Price Written in Words)	\$	\$
197	2	EA	Cut and cap existing irrigation mainline-provide a minimum of 4ft separation. Remove unused pipe. (Unit Price Written in Words)	\$	\$
198	30	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail. (Unit Price Written in Words)	\$	\$
199	82	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly. (Unit Price Written in Words)	\$	\$
200	2	EA	Existing domestic irrigation water meter to be removed (By Others). (Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
201	2	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	\$	\$
			(Unit Price Written in Words)		
202	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting.		
				\$	\$
000	4	- A	(Unit Price Written in Words)		
203	1	EA	Provide and install Nibco T-113 gate valve (mainline size). To be installed per detail.		
				\$	\$
			(Unit Price Written in Words)		
204	2	EA	Remove existing master valve, flow sensor, isolation valve. Cut and cap mainline.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
205	45	LF	Provide and install 6x6 concrete header per Valley-Wide detail LC-33.		
				\$	\$
			(Unit Price Written in Words)		
206	1	LS	Upgrade existing controllers per irrigation plans.		
				\$	\$
			(Unit Price Written in Words)		
207	1	EA	Provide and install irrigation booster pump per the specifications and details and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
208	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.	\$	\$
A21	1	LS	(Unit Price Written in Words) Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.	\$	\$
			(Unit Price Written in Words)		
000	1 4		POC #67		
209	1	EA	Install new 2" Recycled water meter per EMWD standards PB-10. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$
210	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
				\$	\$
			(Unit Price Written in Words)		
211	1	EA	Provide and install Yardney strainer MCS3-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
				\$	\$
			(Unit Price Written in Words)		
212	1	EA	Provide and install Buckner Superior 3100 normally open master valve (size:3") per detail. Run wires to existing irrigation controller location.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Aprox Item Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
213 1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
		(Unit Price Written in Words)	\$	\$
214 1	EA	Provide and install 1" ball valve inside round purple valve box.		
		(Unit Price Written in Words)	\$	\$
215 120	LF	Provide and install 4" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
		(Unit Price Written in Words)	\$	\$
216 120	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
		(Unit Price Written in Words)	\$	\$
217 7	EA	Provide and install recycled water signage per EMWD standards		
		(Unit Price Written in Words)	\$	\$
218 16	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
		(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
219	100	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly. (Unit Price Written in Words)	\$	\$
220	2	EA	Existing domestic irrigation water meter to be removed (By Others).	\$	\$
221	2	EA	(Unit Price Written in Words) Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
222	2	EA	Remove existing master valve and flow sensor. Cut and cap mainline. (Unit Price Written in Words)	\$	\$
223	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Drice Mritten in Morde)	\$	\$
224	1	LS	(Unit Price Written in Words) Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
A22	1	LS	Upgrade existing controllers per irrigation plans.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
A23	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
			(Unit Drice Written in Words)	\$	\$
			(Unit Price Written in Words) POC #70		
225	1	EA	Install new 1.5" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.	\$	\$
			(Unit Price Written in Words)	·	·
226	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
				\$	\$
007	4		(Unit Price Written in Words)		
227	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
				\$	\$
			(Unit Price Written in Words)		
228	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location.		
				\$	\$
			(Unit Price Written in Words)		
229	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
				\$	\$
230	1	EA	(Unit Price Written in Words) Provide and install 1" ball valve inside round		
230	'	LA	purple valve box.		
			(Unit Price Written in Words)	\$	\$
			(Office Triffice Trif		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
231	40	LF	Provide and install 2" Sch.40 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan. (Unit Price Written in Words)	\$	\$
232	40	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
			(Unit Price Written in Words)	\$	\$
233	10	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
234	1	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$
235	10	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
236	28	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
			(Unit Price Written in Words)	\$	\$
237	1	EA	Existing domestic irrigation water meter to be removed (By Others).		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
238	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	\$	\$
239	1	EA	(Unit Price Written in Words) Remove existing master valve and flow sensor. Cut and cap mainline.		
			(Unit Price Written in Words)	\$	\$
240	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
241	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
A24	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words) POC #73		
242	1	EA	Install new 2" Recycled water meter per		
			EMWD standards PB-10. Water meter will be provided by EMWD.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
243	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. (Unit Price Written in Words)	\$	\$
244	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details. (Unit Price Written in Words)	\$	\$
245	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
246	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
247	1	EA	Provide and install 1" ball valve inside round purple valve box.		
			(Unit Price Written in Words)	\$	\$
248	360	LF	Provide and install 3" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
249	1,200	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
			(Huit Dries Written in Words)	\$	\$
250	14	EA	(Unit Price Written in Words) Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
251	3	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Hair Daine Watton in Monda)	\$	\$
252	23	EA	(Unit Price Written in Words) Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
253	105	EA	Replace all existing irrigation valve box and lid with purple recycled water and label accordingly.	\$	\$
054	0		(Unit Price Written in Words)		
254	3	EA	Existing domestic irrigation water meter to be removed (By Others).		
			(Unit Price Written in Words)	\$	\$
255	3	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
256	3	EA	Remove existing master valve and flow sensor. Cut and cap mainline. (Unit Price Written in Words)	\$	\$
257	650	LF	Provide and install 4" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.	\$	\$
			(Unit Price Written in Words)	<u> </u>	<u> </u>
258	5	EA	Provide and install Zurn Wilkins model 48 gate valve (line size). To be installed inside round purple valve box per detail.		
				\$	\$
			(Unit Price Written in Words)		
259	60	LF	Install 6" PVC purple class 200 sleeve under existing decomposed granite trail/access road. Sleeve must be buried a minimum of 36" from finish grade or existing pavement or per County of Riverside standard. Any repairs to existing trail/access road must be per Valley-Wide standards.		
			(Unit Price Written in Words)	\$	\$
260	1	EA	Provide and install irrigation booster pump per specifications and detail and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
261	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
262	3	EA	Upgrade existing controllers per irrigation notes. (Unit Price Written in Words)	\$	\$
A25	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.	\$	\$
			(Unit Price Written in Words)		
000	1 4		POC #75		
263	1	EA	Install new 1.5" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$
264	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
			(Unit Drice Muitter in Monde)	\$	\$
265	1	EA	(Unit Price Written in Words) Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
				\$	\$
000	4		(Unit Price Written in Words)		
266	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location.		
			(Unit Price Written in Words)	\$	\$
267	1	EA	Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
268	1	EA	Provide and install 1" ball valve inside round purple valve box.		
			(Unit Price Written in Words)	\$	\$
269	40	LF	Provide and install 2" Sch.40 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
			(Unit Price Written in Words)	\$	\$
270	40	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.		
			(Unit Price Written in Words)	\$	\$
271	8	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
272	1	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$
273	10	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
274	27	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
275	1	EA	Existing domestic irrigation water meter to be removed (By Others). (Unit Price Written in Words)	\$	\$
276	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	\$	\$
277	1	EA	(Unit Price Written in Words) Remove existing master valve and flow		
211	'	LA	sensor. Cut and cap mainline.	\$	\$
278	1	EA	(Unit Price Written in Words) Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
279	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Hait Dries Mutter in Monde)	\$	\$
A26	1	LS	(Unit Price Written in Words) Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		
000	4		POC #76		
280	1	EA	Install new 1.5" Recycled water meter per EMWD standards PB-12. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$
			Vint i iioo iiiittoi as		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
281	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
282	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
283	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location.		
			(Unit Price Written in Words)	\$	\$
284	1	EA	Provide and install Calsense flow sensor (Size:1.5"). Install per detail. Run wires to existing irrigation controller.		
				\$	\$
			(Unit Price Written in Words)		
285	1	EA	Provide and install 1" ball valve inside round purple valve box.		
				\$	\$
	10		(Unit Price Written in Words)		
286	40	LF	Provide and install 2" Sch.40 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)				
287	40	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.						
			(Unit Price Written in Words)	\$	\$				
288	12	EA	Provide and install recycled water signage per EMWD standards.						
			(Unit Price Written in Words)	\$	\$				
289	1	1	1	1 E	39 1	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
			(Unit Price Written in Words)	\$	\$				
290	23	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.						
			(Unit Price Written in Words)	\$	\$				
291	39	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.						
			(Unit Price Written in Words)	\$	\$				
292	1	EA	Existing domestic irrigation water meter to be removed (By Others).						
			(Unit Price Written in Words)	\$	\$				
293	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.						
			(Unit Price Written in Words)	\$	\$				

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
294	1	EA	Remove existing master valve and flow sensor. Cut and cap mainline.		
			(Unit Price Written in Words)	\$	\$
295	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.		
			(Unit Price Written in Words)	\$	\$
296	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
A27	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
			(Hait Dries Written in Words)	\$	\$
			(Unit Price Written in Words) POC #82		
297	1	EA	Install new 3" Recycled water meter per EMWD standards PB-13. Water meter will be provided by EMWD.		
			(Unit Price Written in Words)	\$	\$
298	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
			(Hold Dries Writters in Mende)	\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
299	1	EA	Provide and install Yardney strainer MCS3-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
			(Unit Price Written in Words)	\$	\$
300	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:3") per detail. Run wires to existing irrigation controller location.		
			(Unit Drice Written in Words)	\$	\$
301	1	EA	(Unit Price Written in Words) Provide and install Calsense flow sensor (Size:2"). Install per detail. Run wires to existing irrigation controller.		
			(Unit Price Written in Words)	\$	\$
302	1	EA	Provide and install 1" ball valve inside round purple valve box.		
			(Unit Price Written in Words)	\$	\$
303	100	LF	Provide and install 4" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.		
			(Unit Price Written in Words)	\$	\$
304	40	LF	Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction. Utilize existing valve wires.		
			(Unit Price Written in Words)	\$	\$

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
305	6	EA	Provide and install recycled water signage per EMWD standards.		
			(Unit Price Written in Words)	\$	\$
306	1	EA	Cut and cap existing irrigation mainline- provide a minimum of 4ft separation. Remove unused pipe.		
				\$	\$
307	4	EA	(Unit Price Written in Words)		
307	4	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.		
				\$	\$
			(Unit Price Written in Words)	7	T
308	42	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
				\$	\$
			(Unit Price Written in Words)		
309	1	EA	Existing domestic irrigation water meter to be removed (By Others).		
				\$	\$
			(Unit Price Written in Words)		
310	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.		
				\$	\$
			(Unit Price Written in Words)	7	
311	1	EA	Remove existing master valve and flow sensor. Cut and cap mainline.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
312	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source inside existing building per local code.		
			(Unit Price Written in Words)	\$	\$
313			This item has been removed from the bidding sheets, per Addendum No. 1.		
314			This item has been removed from the bidding sheets, per Addendum No. 1.		
315			This item has been removed from the bidding sheets, per Addendum No. 1.		
316	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.		
			(Unit Price Written in Words)	\$	\$
317			This item has been removed from the bidding sheets, per Addendum No. 1.		
318			This item has been removed from the bidding sheets, per Addendum No. 1.		
A28	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
			(Unit Price Written in Words)	\$	\$
			(Onit Frice written in words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
		PC	C #82 TURF REMOVAL RETROFIT AND PLA		
A29	11,900	SF	Complete remove existing turf and plant shrub/groundcover per owner direction. (Unit Price Written in Words)	\$	\$
A30	400	EA	Install to Rainbird XBT-20 threaded emitter with Salco or GPH flexible riser (1) per shrub) and (4) per existing tree. Install per turf retrofit plan.		
			(Unit Price Written in Words)	\$	\$
A31	3	EA	(Unit Price Written in Words) Replace existing valve with Rain Bird drip valve per Valley-Wide detail. Install inside purple valve box per detail.		
			(Unit Price Written in Words)	\$	\$
A32	1	LS	(Unit Price Written in Words) Buried irrigation UVR laterals, ball valves, pressure regulators, check valves, fittings to each plant per turf retrofit plan per Valley-Wide low volume point-to-point details IR-02, IR-30, IR-31, IR-32, IR-33, IR-34 and IR-35.		
				\$	\$
100			(Unit Price Written in Words)		
A33	115	EA	Provide and install 5 gal shrub per Valley-Wide detail PL-04 per turf retrofit plans.	\$	\$
			(Unit Price Written in Words)		
A34	11,900	SF	Provide and install 3" Thick organic cover mulch per Valley-Wide detail PL-07 per turf retrofit plans, or you could remove this bid item and provide separate bid items for these two retrofits.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
A35	285	EA	Provide and install 1 gal shrub per Valley-Wide detail PL-04 per turf retro-fit plans.	\$	\$
			(Unit Price Written in Words)	Ψ	Ψ
A36	1	LS	Sub-grade for vegetative swales per turf retrofit plans.		
				\$	\$
			(Unit Price Written in Words)		
A37	1	LS	30 Day Maintenance per Valley-Wide maintenance specifications		
				\$	\$
			(Unit Price Written in Words)		
A38	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.		
				\$	\$
			(Unit Price Written in Words)		
			POC #85		
319	1	EA	Install new 1.5" Recycled water meter per EMWD standards PB-11. Water meter will be provided by EMWD.		
				\$	\$
			(Unit Price Written in Words)	·	·
320	1	EA	Provide and install Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover.		
				\$	\$
			(Unit Price Written in Words)		
321	1	EA	Provide and install Yardney strainer MCS2-1. To be installed above ground with stainless steel enclosure per manufacturer standard and details.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
322	1	EA	Provide and install Buckner Superior 3200 normally closed master valve (size:2") per detail. Run wires to existing irrigation controller location. (Unit Price Written in Words)	\$	\$
323	1	EA	Provide and install Calsense flow sensor (Size:1"). Install per detail. Run wires to existing irrigation controller. (Unit Price Written in Words)	\$	\$
324	1	EA	Provide and install 1" ball valve inside round purple valve box. (Unit Price Written in Words)	\$	\$
325	50	LF	Provide and install 2.5" Class 315 PVC purple recycled water irrigation mainline (bury 24" min. deep) and connect to existing irrigation POC as shown on plan.	\$	\$
326	50	LF	(Unit Price Written in Words) Provide and install 14GA. Valve wires for master valve and P7162D Paige cable for flow sensor inside 1.5" PVC Sch.40 conduit and connect to existing controller. Install pull box at 150" O.C. or at any change in direction.	\$	\$
327	4	EA	(Unit Price Written in Words) Provide and install recycled water signage per EMWD standards. (Unit Price Written in Words)	\$	\$
328	1	EA	Cut and cap existing irrigation mainline-provide a minimum of 4ft separation. Remove unused pipe.	\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)
329	10	EA	Replace existing quick coupler with Nelson 7645 (1") quick coupler valve with acme thread and purple locking cover. Install new purple valve box per detail.	\$	\$
			(Unit Price Written in Words)		
330	20	EA	Replace all existing irrigation valve box's lids only with purple recycled water and label accordingly.		
				\$	\$
			(Unit Price Written in Words)		
331	1	EA	Existing domestic irrigation water meter to be removed (By Others).		
				\$	\$
			(Unit Price Written in Words)		
332	1	EA	Existing backflow preventer to be removed. Cut and cap existing line. Remove all unused pipe.	\$	\$
			(Unit Price Written in Words)		·
333	1	EA	Connect propose new master valve and flow sensor wires to existing controller. Adjust/setup existing controller for high-flow shut off setting.		
				\$	\$
			(Unit Price Written in Words)		
334	2	EA	Remove existing master valve, flow sensor. Cut and cap mainline.		
				\$	\$
005	50		(Unit Price Written in Words)		
335	50	LF	Provide and install 6x6 concrete header per Valley-Wide detail LC-33.		
				\$	\$
			(Unit Price Written in Words)		

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

Bid Item	Aprox. Qty.	Unit	Description Unit Price Written in Words	Unit Price (Figures)	Total Amount (Figures)		
336	1	EA	Provide and install new irrigation booster pump per manufacturer standards (see irrigation plans for model number) and provide and install electrical conduit, 240 VAC wiring and breaker(s) to connect booster pump from nearby electrical source per local code.	(Figures)	(Figures)		
			(Unit Price Written in Words)	\$	\$		
337	1	LS	Provide purple cap for recycled water identification to all existing overhead irrigation rotor / spray system.				
			(Unit Price Written in Words)	\$	\$		
A39	1	LS	Incidentals, including repairs and replacements to any existing improvement in order to complete scope of work.				
			(Unit Price Written in Words)	\$	\$		
TOTAL BID AMOUNT (Bid Items 1-337 & A1-A39)							
		(Uni	t Price Written in Words)	\$			

EQUIPMENT AND MATERIAL

No substitution will be permitted without written justification and the approval of the District prior to the bid opening.

PRODUCTS OF MANUFACTURERS LISTED AS EQUALS TO THOSE SPECIFIED IN THE CONTRACT DOCUMENTS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DISTRICT NO LATER THAN THE TENTH (10TH) DAY PRECEDING THE DATE SET FOR RECEIPT OF BIDS.

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

All bidders must provide a detailed three (3) year experience record showing successful completion, as a licensed Class A General Contractor, Class B General Building contractor, or Class C-27 Landscaping Contractor of at least three (3) similar projects within the last three (3) years as follows:

- 1. Public Works
- 2. \$1,000,000 or greater contract value
- 3. Owner occupied renovation projects
- 4. Renovation of publicly accessible areas while maintaining public access for public administration buildings, hospitals, or schools.

Additionally, bidders must include resumes of key personnel proposed to work on this project when submitting your bid. This information will be critical in determining the most responsible bidder.

Provide client reference contact information for each of the Projects submitted.

Failure to submit any of the above-mentioned information with your bid "may" deem your bid non-responsive

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

Bidder Information and Experience Form

ARTICLE 1. INFORMATION ABOUT BIDDER

(Indicate not applicable ("N/A") where appropriate.)

NOTE:				dder is a joint venture, pages shall be duplicated and information provided ties to the joint venture.					
	1.0		Name	e of Bidder:					
	2.0		Туре,	if Entity:					
	3.0		Bidde	r Address:					
			Facsir	mile Number Telephone Number					
			Email	Address					
	4.0		How r	many years has Bidder's organization been in business as a Contractor	?				
	5.0			How many years has Bidder's organization been in business under its present name?					
			5.1	Under what other or former names has Bidder's organizatio operated?	n				
	6.0		If Bido	der's organization is a corporation, answer the following:					
			6.1	Date of Incorporation:					
			6.2	State of Incorporation:					
			6.3	President's Name:					
			6.4	Vice-President's Name(s):					
			6.5	Secretary's Name:					

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

If an	individual or a partnership, answer the following:
7.1	Date of Organization:
7.2	Name and address of all partners (state whether general or limited partnership):
If oth	ner than a corporation or partnership, describe organization and ipals:
List o	other states in which Bidder's organization is legally qualified to do busi
What	type of work does the Bidder normally perform with its own forces?
	Bidder ever failed to complete any work awarded to it? If so, note when, v

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

List Doub Defenses (Doub and Drough Address)
List Doub Defenses (Doub and Drongle Address)
List Doub Defense on (Doub and Drough Address)
List Doub Defenses (Doub and Drauch Address)
List Bank References (Bank and Branch Address):
Name of Bonding Company and Name and Address of Agent:

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

ARTICLE 2. LIST OF CURRENT PROJECTS (BACKLOG)

[**Duplicate Page if needed for listing additional current projects.**]

Project Name	Agency / Contact / Contact Info	Description of Bidder's Work	Completion Date	Cost of Bidder's Work

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

ARTICLE 3. LIST OF COMPLETED PROJECTS - LAST THREE YEARS

[**Duplicate Page if needed for listing additional completed projects.**]

Please include only those projects which are similar enough to demonstrate Bidder's ability to perform the required Work.

Project Name	Agency / Contact / Contact Info	Description of Bidder's Work	Completion Date	Cost of Bidder's Work

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

ARTICLE 4. EXPERIENCE AND TECHNICAL QUALIFICATIONS QUESTIONNAIRE

Personnel:

The Bidder shall identify the key personnel to be assigned to this project in a management, construction supervision or engineering capacity.

1. List each per	rson's job title, name and percent of time to be allocated to this project:
2. Summarize e	each person's specialized education:
3. List each pe	rson's years of construction experience relevant to the project:
4. Summarize s	such experience:

Bidder agrees that personnel named in this Bid will remain on this Project until completion of all relevant Work, unless substituted by personnel of equivalent experience and qualifications approved in advance by the District.

FRENCH VALLEY RECYCLED WATER RETROFIT PROJCT PHASE THREE

BIDDER'S 3-YEAR EXPERIENCE RECORD & RESUMES OF KEY PERSONNEL

Date_____

DESIGNATION OF SUBCONTRACTORS

In compliance with the provisions of Sec. 4100-4111, inclusive, of the Public Contract Code of the State of California, and any amendments thereof, each bidder shall set forth below: (a) The name and the location of the place of business of each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work or improvement in an amount in excess of one-half of one percent (1/2 of 1%) of the Contractor's total bid; and (b) the portion of the work which will be done by each such subcontractor.

Each subcontractor shall possess, both at the time the bid is submitted and at all times when work is performed, a valid contractor's license for the appropriate classification necessary to perform the work for which that subcontractor is listed. Each subcontractor shall be registered with the Department of Industrial Relations at time of bid and during the performance of the Contract.

If the Contractor fails to specify a subcontractor for any portion of the work to be performed under the contract in excess of one-half of one percent (1/2 of 1%) of the Contractor's total bid, he agrees that he is fully qualified to perform that work himself, and that he shall perform that work himself, and that he shall perform that portion himself.

The Contractor shall not, without the consent of the District, or unless, either: (a) Substitute any person as subcontractor in place of the subcontractor designated in the original bid; (b) Permit any such subcontract to be assigned or transferred or allow it to be performed by anyone other than the original subcontractor listed in the bid; or (c) Sublet or subcontract any portion of the work in excess of one-half of one percent (1/2 of 1%) of the Contractor's total bid as to which his original bid did not designate a subcontractor.

In the following instances, the District may consent to the substitution of another subcontractor:

- (1) When the subcontractor listed in the bid after having a reasonable opportunity to do so fails or refuses to execute the written contract which is based upon the general terms, conditions, plans and specifications of the involved project or the terms of the subcontractor's written bid when it is presented to the subcontractor by the prime subcontractor;
 - (2) When the listed subcontractor becomes bankrupt or insolvent;
 - (3) When the listed subcontractor fails or refuses to perform his or her subcontract;
- (4) When the listed subcontractor fails or refuses to meet the bond requirements of the prime Contractor to furnish a bond guaranteeing prompt and faithful performance of the subcontract and the payment of all claims for labor and materials furnished or used pursuant to Public Contract Code 4108;
- (5) When the prime Contractor demonstrates to the District, as set forth in Public Contract Code 4107.5 that the name of the subcontractor was listed as the result of an inadvertent clerical error;

As a condition to assert claim of clerical error, the Contractor must give written notice of the inadvertent clerical error to the District with copies to both the listed and intended subcontractor within two (2) working days of the time of the prime bid opening. The District shall consent to the substitution if the prime Contractor and both subcontractor listed in error and the intended subcontractor each submit an affidavit to the District within eight (8) working days of the time of the prime bid opening indicating that an inadvertent clerical error was made.

The District shall also consent to the substitution of the intended Contractor if affidavits are filed by both the prime Contractor and the intended Subcontractor within six (6) working days and the subcontractor claimed to be listed in error does not submit within six (6) working days a written objection to the claim to both the District and the Contractor.

However, if the listed subcontractor submits a written objection to the Contractor's claim of inadvertent clerical error within six (6) working days from the time of the prime bid opening, the District shall investigate the claims of the parties and shall hold a public hearing as described herein to determine the validity of those claims.

Any declarations submitted must be submitted under penalty of perjury by all three (3) parties and supported by testimony under oath and subject to cross-examination.

- (6) When the listed Contractor is not licensed pursuant to the Contractor's license law;
- (7) When the District determines that the work performed by the listed subcontractor is substantially unsatisfactory and not in substantial accordance with the plans and specifications, or that the subcontractor is substantially delaying or disrupting the progress of the work.

Prior to any substitution of a subcontractor, the District shall give notice in writing to the listed subcontractor of the request to substitute subcontractors and the reasons for the request. The notice shall be served by registered or certified mail to the last known address of the subcontractor. The listed subcontractor who has been so notified shall have five (5) working days within which to submit written objections to the substitution to the District. Failure to file these written objections shall constitute the listed subcontractor's consent to the substitution. If written objections are filed, the District shall give notice in writing of at least five (5) working days to the listed subcontractor of a hearing by the District on the Contractor's request for substitution.

The original bid need not designate a subcontractor for the performance of any change orders.

No subletting or subcontracting of any portion of the work in excess of one-half of one percent (1/2 of 1%) of the prime Contractor's total bid shall be permitted except in cases of public emergency or necessity and then only after a written finding is made by the District as a public record setting forth the facts constituting the emergency or necessity.

As used in this designation, the term subcontractor means only those subcontractors who contract directly with the prime Contractor.

If the Contractor violates any of the provisions of this section, it is deemed to have violated and breached this contract, and the District may exercise the option in its own discretion of: (1) canceling the contract; or (2) assessing the contract or a penalty in an amount of not more than ten percent (10%) of the amount of the subcontract involved, and this penalty shall be deposited in the fund out of which the prime contract is awarded. The Contractor shall be entitled to a public hearing in five (5) days notice of the time and place of the hearing.

LIST OF DESIGNATED SUBCONTRACTORS

SPEC #:	2023-134		
PROJECT 1	T TITLE: French Valley Recycled Water Retrofit Project Phase Three		alley Recycled Water Retrofit Project Phase Three
NAME OF CONTRACTOR:		ACTOR:	

In compliance with the provisions of Sec. 4100-4111, inclusive, of the Public Contract Code of the State of California, and any amendments thereof, each bidder shall set forth: the name, location of the place of business, license number, portion of the work which will be done by each subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work or improvement in an amount in excess of one-half of one percent (1/2 of 1%) of the Contractor's total bid. Each portion of Subcontracted work noted in the below table must be specific and contain all major activities associated with completion of the project, outside of the services provided by the bidding Contractor. Ambiguous and/or incomplete Subcontracted work information may deem the bid nonresponsive. Each subcontractor shall possess, both at the time the bid is submitted and at all times when work is performed, a valid contractor's license for the appropriate classification necessary to perform the work for which that subcontractor is listed.

BIDDER SHALL PROVIDE THE FOLLOWING INFORMATION:

Company Name, Business Address, Email Address, License No., Contractor Registration No.,
Subcontract Work, and % Of Total Bid

* PLEASE WRITE LEGIBLY*

LICENSED SUBCONTRACTOR'S NAME,	LICENSE #	SUBCONTRACT	% OF TOTAL BID
BUSINESS ADDRESS, & EMAIL ADDRESS	CONTRACTOR REGISTRATION #	WORK (Be Specific)	
Company Name:	License #:		
Address:	DIR Registration #:		
Email Address:			
Company Name:	License #:		
Address:	DIR Registration #:		
Email Address:			

LICENSED SUBCONTRACTOR'S NAME, BUSINESS ADDRESS, & EMAIL ADDRESS	LICENSE #	SUBCONTRACT WORK	% OF TOTAL BID
		(Be Specific)	
Company Name:	License #:		
Address:			
Email Address:	DIR Registration #:		
Company Name:	License #:		
Address:			,
Email Address:	DIR Registration #:		
Company Name:	License #:		
Address:			
	DIR Registration #:	,	
Email Address:			
Company Name:	License #:		
Address:			
	DIR Registration #:		
Email Address:			
Company Name:	License #:		
Address:	 DIR Registration #:		
Email Address:	<u> </u>		

(Do not list alternative subcontractors for the same work) (Use additional pages if needed)

Public Works Contractor Registration Certification

Pursuant to Labor Code sections 1725.5 and 1771.1

All contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See http://www.dir.ca.gov/Public-Works/Public-Works.html for additional information.

No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Bidder hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.

		Name of Bidder:
		DIR Registration Number:
		DIR Registration Expiration:
Bidder fur	ther	acknowledges:
	1.	Bidder shall maintain a current DIR registration for the duration of the project.
	2.	Bidder shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
	3.	Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.
Name of E	Bidd	er
Signature_		
Name and	l Tit	le
Dated		

CONTRACTOR'S LICENSING STATEMENT

		in the laws of the State of			
providing for the registration of contractors. The representations made herein and in the					
proposal documents	proposal documents are made under penalty of perjury. The undersigned is hereby				
representing that he is	s properly licensed both at	t the time that he submits a bid as well as a			
the time the contract	is awarded, it the contrac	et is awarded to the undersigned.			
CONTRACTOR'S CLA	SSIFICATION				
LICENSE NUMBER	TYPE	EXPIRATION DATE			
A. INDIVIDUAL CON	ITRACTOR				
NAME OF INDIVIDUA	L CONTRACTOR:				
BUSINESS ADDRESS	3:				
PHONE NUMBER:					
SIGNATURE OF OWN	NER:				
B. FIRM OR PARTN	ERSHIP				
NAME OF FIRM OR P	ARTNERSHIP:				
BUSINESS ADDRESS	S:				
PHONE NUMBER:					
SIGNATURE(S) & TIT	LE OF MEMBERS SIGNIN	G ON BEHALF OF THE PARTNERSHIP:			
SIGNATURE:		TITLE:			
SIGNATURE:		TITLE:			
SIGNATURE:		TITLE:			
C. CORPORATION					
NAME OF CORPORA	TION:				
BUSINESS ADDRESS	S :				
PHONE NUMBER:					
SIGNATURE OF AUTHORIZED OFFICER OF CORPORATION:					
SIGNATURE:		TITLE:			

NON-COLLUSION DECLARATION

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

The undersigned declares:	
I am the	of
the party making the foregoing bid.	
partnership, company, association, organization collusive or sham. The bidder has not other bidder to put in a false or sham bid. The conspired, connived, or agreed with any bid refrain from bidding. The bidder has not in agreement, communication, or conference vot any other bidder, or to fix any overhead, prof any other bidder. All statements contain directly or indirectly, submitted his or her contents thereof, or divulged information opartnership, company, association, organization.	of, or on behalf of, any undisclosed personation, or corporation. The bid is genuine and directly or indirectly induced or solicited any se bidder has not directly or indirectly colluded, der or anyone else to put in a sham bid, or to any manner, directly or indirectly, sought by with anyone to fix the bid price of the bidder or rofit, or cost element of the bid price, or of that need in the bid are true. The bidder has not, bid price or any breakdown thereof, or the or data relative thereto, to any corporation, tion, bid depository, or to any member or agent bid, and has not paid, and will not pay, any
partnership, joint venture, limited liability con	n on behalf of a bidder that is a corporation, npany, limited liability partnership, or any other full power to execute, and does execute, this
	der the laws of the State of California that the claration is executed on[date],[state]
	SE S
Signed	d:
Name:	(Print Name Here)

Revised	1 0608
Projec	t Title:
	WORKERS' COMPENSATION INSURANCE CERTIFICATE
	ontractor shall execute the following form as required by the California Labor Code, ns 1860 and 1861:
	I am aware of the provisions of Section 3700 of the Labor Code which require ever employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with succeprovisions before commencing the performance of the work of this contract. Date (Contractor) By: (Signature) (Title)
Date: ˌ	(Contractor)
	By:(Signature)

(Title)

IRAN CONTRACTING ACT (Public Contract Code sections 2202-2208)

Prior to bidding on, submitting a proposal or executing a contract or renewal for a State of California contract for goods or services of \$1,000,000 or more, a vendor must either: a) certify it is <u>not</u> on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete <u>one</u> of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is <u>not</u> on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Vendor Name/Financial Institution (Printed)		Federal ID Number (or n/a)	
By (Authorized Signature)			
Printed Name and Title of Person Signing			
Date Executed	Executed in		

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Vendor Name/Financial Institution (Printed)	Federal ID Number (or n/a)
By (Authorized Signature)	

Printed Name and Title of Person Signing

Date Executed

Cal/OSHA Form 300A

Annual Summary of Work-Related Injuries and Illnesses

Bidders shall provide the most current, completed Cal/OSHA Form 300A with their bid (blank form attached)

Failure to submit this form "may" deem your bid non-responsive

[PAGE LEFT INTENTIONALLY BLANK]

Cal/OSHA Form 300A (Rev. 7/2007) Appendix B Annual Summary of Work Related Injuries and Illnesses



Division of Occupational Safety & Health
Year 20

All establishments covered by CCR Title 8 Section 14300 must complete this Annual Summary
even if no work-related injuries or illnesses occurred during the year. Remember to review the Log
to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the Cal/ OSHA Form 300 in its entirety. They also have limited access to the Cal/ OSHA Form 301 or its equivalent. See CCR Title 8 Section 14300.35, in Cal/ OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases			
Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
(G)	(H)	(I)	(J)
Number of Days			
Total number of days of job transfer or restriction		Total number of days away from work	
(K)		(L)	
Injury and Illness	Types		
Total number of (M)			
(1) Injuries		(4) Poisonings	
(2) Skin disorders		(5) Hearing loss	
(3) Respiratory conditions		(6) All other Illnes	sses

Facility Information

Establishment name	
Street	
City	State Zip
Industry description (e.g. Man	nufacturer of motor truck trailers)
Standard Industrial Classific	ation (SIC), if known (e.g. SIC 3715)
Employment Informa	ation use the optional Worksheet to estimate)
Annual average number of e	mployees
Total hours worked by all en	nployees last year
Sign here	
Knowingly falsifying this d	ocument may result in a fine.
I certify that I have examined knowledge the entries are true	d this document and that to the best of my ne, accurate, and complete.
Company executive	Title
Phone	Date

Post this Annual Summary from February 1 to April 30 of the year following the year covered by the form.

[PAGE LEFT INTENTIONALLY BLANK]

VALLEY-WIDE RECREATION BID BOND

	Bid Bond No.	
KNOW ALL MEN BY THESE PRESENTS, that we		
	(Here insert full name and address or legal title of Cor	ntractor)
	as Principal, hereinafter called the Princi	pal, and
(Here insert full name and address	s or legal title of Surety)	
A corporation duly organized under the laws of the S Hereinafter call the Surety, are held and firmly boun		as Surety,
Obligee, hereinafter all the Obligee, in the sum of _		
for the payment of which sum well and truly to be mour heir, executors, administrator, successors and a		
WHEREAS, the Principal has submitted a bid, dated	d, 20, for	
NOW, THEREFORE, IF THE Obligee shall accept Contracto with the Obligee in accordance with the specified in the bidding of Contract Documents wit such Contract and for the prompt payment of labor event of the failure of the Principal to enter such Copay the Obligee the difference not to exceed the pesuch larger amount for which the Obligee may in covered by said bid, then this obligation shall be null in the event suit is brought upon this Bond by Obligees in such suits to be fixed by Signed and sealed this	terms of such bid, and give such bond or h good and sufficient surety for the faithful and material furnished in the prosecution contract and give such bond or bonds, if the enalty hereof between the amount specific good faith contract with another party to I and void, otherwise to remain in full force igee and judgement is recovered, the Stay the court.	bonds as may be ul performance of thereof, or in the the Principal shalled in said bid and perform the Work and effect.
(Witness)	(Principal) (Title)	
(Witness)	(Surety)	
	(Title) to be considered a responsive bid	

Notary Public Acknowledgement required for Surety

Per Civil Code 1189 a notice must be legible and provided at the top in an enclosed box to be deemed responsible

SAMPLE ALL PURPOSE ACKNOWLEDGEMENT FORM

Per Civil Code 1189 a notice must be legible and provided at the op in an enclosed box to be deemed responsive

CALIFORNIAALL-PURPOSEACKNOWLEDGEMENT	CIVIL CODE 1189
A notary public or other officer completing this certificate verifies only the ide signed the document to which this certificate is attached, and not the truthfulne that document.	
State pf California	
County of	
County of	

BB-2 Bid Bond

FRENCH VALLEY RECYCLED WATER RETROFIT PROJECT PHASE THREE

SECTION P - CONTRACT DRAWINGS

P-01. <u>General</u>. The location of the work, its general nature and extent, the outline of the land owned or controlled by the District and the form and general dimensions of the facilities (ie. pipelines, appurtenances, etc.) are as shown on the drawings attached and made a part of this Specification as listed below.

P-02. Construction Drawings

Drawing Title

- POC 24 Recycled Water Irrigation Retrofit Improvement Plan
- POC 24 Turf Removal Retrofit and Planting Improvement Plan
- POC 28 Delta 1 Recycled Water Irrigation Retrofit Improvement Plan
- POC 35 Recycled Water Irrigation Retrofit Improvement Plan
- POC 38 Recycled Water Irrigation Retrofit Improvement Plan
- POC 47 Recycled Water Irrigation Retrofit Improvement Plan
- POC 49 Recycled Water Irrigation Retrofit Improvement Plan
- POC 52 Recycled Water Irrigation Retrofit Improvement Plan
- POC 58 Recycled Water Irrigation Retrofit Improvement Plan
- POC 62 Recycled Water Irrigation Retrofit Improvement Plan
- POC 67 Delta 1 Recycled Water Irrigation Retrofit Improvement Plan
- POC 70 Delta 1 Recycled Water Irrigation Retrofit Improvement Plan
- POC 73 Recycled Water Irrigation Retrofit Improvement Plan
- POC 75 Recycled Water Irrigation Retrofit Improvement Plan
- POC 76 Recycled Water Irrigation Retrofit Improvement Plan
- POC 82 Recycled Water Irrigation Retrofit Improvement Plan
- POC 82 Turf Removal Retrofit and Planting Improvement Plan
- POC 85 Recycled Water Irrigation Retrofit Improvement Plan

General



TURF CONVERSION NOTE:

ALL WORK RELATED TO TURF CONVERSION, REPLACING DRIP VALVES, NEW PLANT MATERIALS AND DRIP IRRIGATION SYSTEMS WILL BE ON SEPARATE BID ITEMS.

CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL TURF TO BE REMOVED PER THIS PLAN. ALL EDGES OF WALKS, CURBS OR OTHER HARD SURFACES SHALL BE EXCAVATED A MINIMUM OF 2 INCHES BELOW GRADE WITHIN THE FIRST 2 FEET OF ANY EDGE CONDITION.

CONTRACTOR SHALL PLACE PLANTS AS NEEDED TO AVOID EXISTING TREES, TREE ROOTS OR OTHER FIELD CONDITIONS.

ALL AREAS WITH REMOVED TURF PER THIS PLAN SHALL HAVE 4" DEEP COURSE ORGANIC MULCH AS APPROVED BY VALLEY-WIDE.

ALL PLANTED SHALL BE PER VALLEY-WIDE STANDARDS, SPECIFICATIONS AND DETAILS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PLANT ESTABLISHMENT UNTIL ACCEPTANCE OF PLANTING HAS BEEN CONFIRMED WITH VALLEY-WIDE.

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE PLANTING SHOWN ON THIS PLAN SHALL MEET THE LATEST VALLEY-WIDE STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

PLAN DRAWING NOTE:

THIS RETROFIT PLAN IS BASED ON BASE FILES PROVIDED BY EMWD THAT WERE BASED ON PLANS NOT PREPARED BY EMWD / EMWD REPRESENTATIVE.

VALLEY-WIDE / VALLEY-WIDE REPRESENTATIVES, EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT

ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

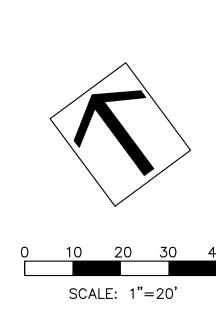
PLANTING LEGEND

· -/ \	WALLE COLUMN				
SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
0	146	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
M	445	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
\odot	758	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
J	62	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
\bigcirc	296	1 GAL.	ACACIA REDOLENS	ACACIA 'DESERT CARPET'	PL-04
	193	1 GAL.	JUNIPERUS WILTONII	CREEPING JUNIPER	PL-04
A	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
	96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

- (1) CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.
- PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.
- PROVIDE AND INSTALL DRIP LATERAL LINE ZONE AS NEEDED TO PROVDIDE IRRIGATION TO EACH NEW PLANT PER VALLEY-WIDE STANDARD SPECIFICATIONS AND DETAILS, INCLUDING ALL
- BALL VALVES, PRESSURE REGULATORS, UVR TEES, UVR PIPING, J-HOOKS, FLEX RISERS, THREADED EMITTERS, COATED STAPLES AND FLUSH VALVES. CONTRACTOR TO PROVIDE LAYOUTS FOR VALLEY-WIDE APPROVAL PRIOR TO INSTALLATION. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.
- 4 PROTECT IN PLACE EXISTING RCV TYP.
- (5) PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.
- (6) PROTECT IN PLACE EXISTING QCV TYP.

MATCHLINE SEE SHEET 02





CONTRACTOR SHALL BID 300 ADDITIONAL 1 GALLON PLANTS TO BE ADDED AS DIRECTED BY FIELD INSPECTOR.

SEE SHEETS PL-04 AND PL-06 FOR DETAILS.

DIG ALERT Call: TOLL FREE 1-800-227-2600

ACCEPTED BY: BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT ACCEPTANCE DATE VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

REVISIONS EASTERN MUNICIPAL WATER DISTRICT SENIOR CIVIL ENGINEER DEPARTMENT **ACCEPTANCE** DATE NEW BUSINESS P.C OPERATIONS DRAWN BY: BY **ENGINEERING** CHECKED BY:

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. TURF REMOVAL RETROFIT AND PLANTING **IMPROVEMENTS** POC #24 - ABELIA AND BROOKFIELD PARK

PLANTING PLAN

SHT. <u>1</u> OF <u>15</u> DATE: 03-07-2023

MATCHLINE SEE SHEET 01



TURF CONVERSION NOTE:

ALL WORK RELATED TO TURF CONVERSION, REPLACING DRIP VALVES, NEW PLANT MATERIALS AND DRIP IRRIGATION SYSTEMS WILL BE ON SEPARATE BID ITEMS.

CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL TURF TO BE REMOVED PER THIS PLAN. ALL EDGES OF WALKS, CURBS OR OTHER HARD SURFACES SHALL BE EXCAVATED A MINIMUM OF 2 INCHES BELOW GRADE WITHIN THE FIRST 2 FEET OF ANY EDGE CONDITION.

CONTRACTOR SHALL PLACE PLANTS AS NEEDED TO AVOID EXISTING TREES, TREE ROOTS OR OTHER FIELD CONDITIONS.

ALL AREAS WITH REMOVED TURF PER THIS PLAN SHALL HAVE 4" DEEP COURSE ORGANIC MULCH AS APPROVED BY VALLEY-WIDE.

ALL PLANTED SHALL BE PER VALLEY-WIDE STANDARDS, SPECIFICATIONS AND DETAILS.

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PLAN DRAWING NOTE:

THIS RETROFIT PLAN IS BASED ON BASE FILES PROVIDED BY EMWD THAT WERE BASED ON PLANS NOT PREPARED BY EMWD / EMWD REPRESENTATIVE. VALLEY-WIDE / VALLEY-WIDE REPRESENTATIVES, EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT

ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH

ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

(1) CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.

PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.

COMMON NAME

TEXAS RANGER

AUTUMN SAGE

TRAILING ROSEMARY

CREEPING JUNIPER

ACACIA 'DESERT CARPET'

.) POURED IN PLACE PER DETAIL

COMPACT TO 90% DENSITY

TURF REMOVAL +/- 99,600 SQ.FT | PL-07

DEERGRASS

GRAY RUSH

DWARF COSTA ROSEMARY

BOTTLEBRUSH 'LITTLE JOHN'

TOYON

PROVIDE AND INSTALL DRIP LATERAL LINE ZONE AS NEEDED TO PROVDIDE IRRIGATION TO EACH NEW PLANT PER VALLEY-WIDE STANDARD SPECIFICATIONS AND DETAILS, INCLUDING ALL

BALL VALVES, PRESSURE REGULATORS, UVR TEES, UVR PIPING, J-HOOKS, FLEX RISERS, THREADED EMITTERS, COATED STAPLES AND FLUSH VALVES. CONTRACTOR TO PROVIDE LAYOUTS FOR VALLEY-WIDE APPROVAL PRIOR TO INSTALLATION. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.

4 PROTECT IN PLACE EXISTING RCV TYP.

PLANTING LEGEND

SYB. QTY. SIZE BOTANICAL NAME

146 | 1 GAL. | SALVIA GREGGII

① 62 1 GAL. JUNCUS PATENS

(a) 296 1 GAL. ACACIA REDOLENS

111 5 GAL. HETERMOLES ARBUTIFOLIA

179 5 GAL. LEUCOPHYLLUM FRUITESCENS

92 1 GAL. CALISTOMEN VIMINALIS

758 1 GAL. ROSMARINUS OFFICINALIS

193 | 1 GAL. | JUNIPERUS WILTONII

=(A)=| PER | 6"X6" | CONCRETE HEADER (+/-490 L.F.

780 3" DEEP ORGANIC COVER MULCH

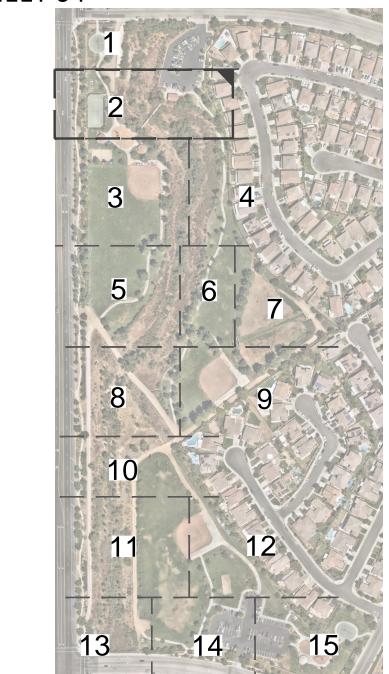
2,820 3" DEEP CA. GOLD STABILIZED DG

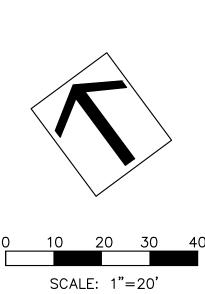
326 | 1 GAL. | WESTRINGA FRUITICOSA

M 445 1 GAL. MUHLENBERGIA REGENS

- 5 PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.
- (6) PROTECT IN PLACE EXISTING QCV TYP.

MATCHLINE SEE SHEET 03 MATCHLINE SEE SHEET 04





DIG A	LERT
BEFORE VOUDO	Call: TOLL FREE 1-800-227-2600 OR 811

ACCEPTED BY: BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT ACCEPTANCE DATE VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT DATE SENIOR CIVIL ENGINEER DEPARTMENT **ACCEPTANCE** DATE NEW BUSINESS P.C OPERATIONS DRAWN BY: BY **ENGINEERING** CHECKED BY: **ENGINEER** POS ENGINEER

DETAIL

PL-04

LC-33

LC-01

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. TURF REMOVAL RETROFIT AND PLANTING IMPROVEMENTS

POC #24 - ABELIA AND BROOKFIELD PARK PLANTING PLAN

SHT. <u>2</u> OF <u>15</u> DATE: 03-07-2023



PLANTING LEGEND

	WITHOUTE CENTER OF THE CONTRACT OF THE CONTRAC				
SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
0	146	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
\bigcirc M	445	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
\odot	758	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
0	62	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
	296	1 GAL.	ACACIA REDOLENS	ACACIA 'DESERT CARPET'	PL-04
\bigcirc	193	1 GAL.	JUNIPERUS WILTONII	CREEPING JUNIPER	PL-04
A	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
	96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

 $\langle \overline{1} \rangle$ CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.

PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.

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4 PROTECT IN PLACE EXISTING RCV TYP.

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ALL AREAS WITH REMOVED TURF PER THIS PLAN SHALL HAVE 4" DEEP COURSE ORGANIC MULCH AS APPROVED BY VALLEY-WIDE.

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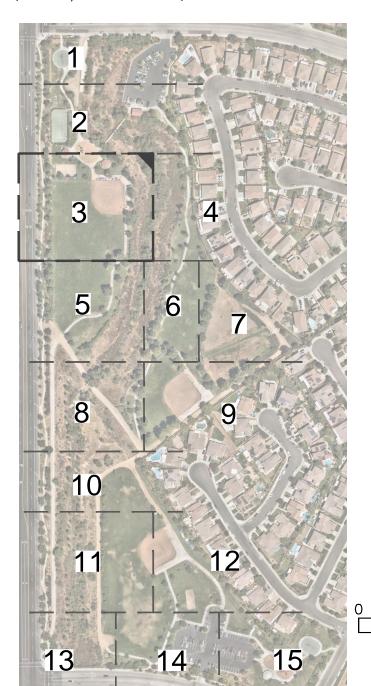
INSTALLATION NOTES

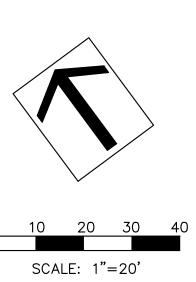
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DIG ALERT

BENCH MARK

DESCRIPTON:

LOCATION:

VERTICAL DATUM:

TWO FULL WORKING DAYS BEFORE YOU DIG

BENCH MARK

DESCRIPTON:

HORIZONTAL DATUM:

HORIZONTAL DATUM:

ACCEPTED BY: ACCEPTED BY: BENCH MARK REVISIONS EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT SENIOR CIVIL ENGINEER LOCATION: ACCEPTANCE DATE DEPARTMENT DEPARTMENT ACCEPTANCE DATE 3-22-23 NEW BUSINESS P.C VERTICAL DATUM: OPERATIONS DRAWN BY: MARK BY ENGINEERING CHECKED BY: **ENGINEER** DESCRIPTION

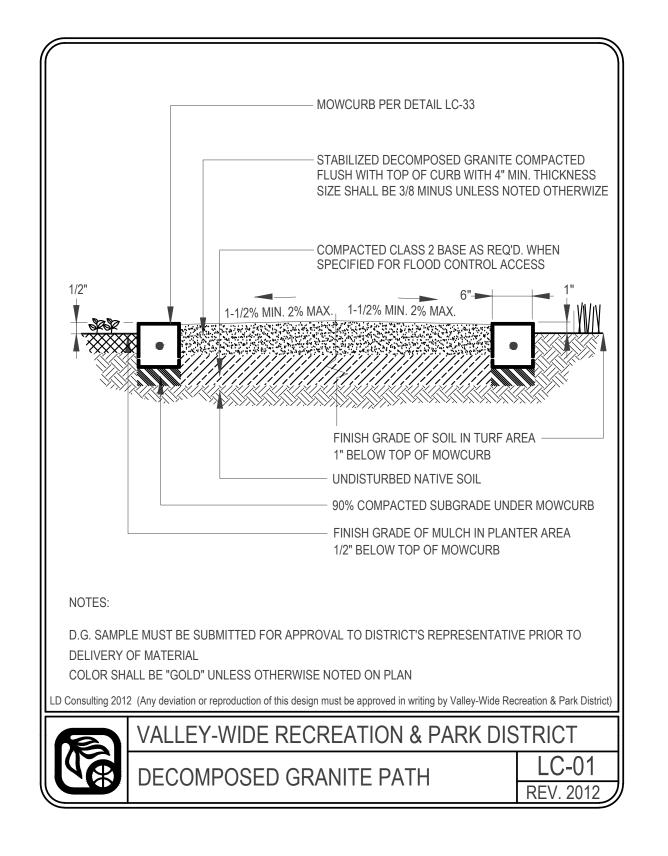
VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

POC #24 - ABELIA AND BROOKFIELD PARK
PLANTING PLAN

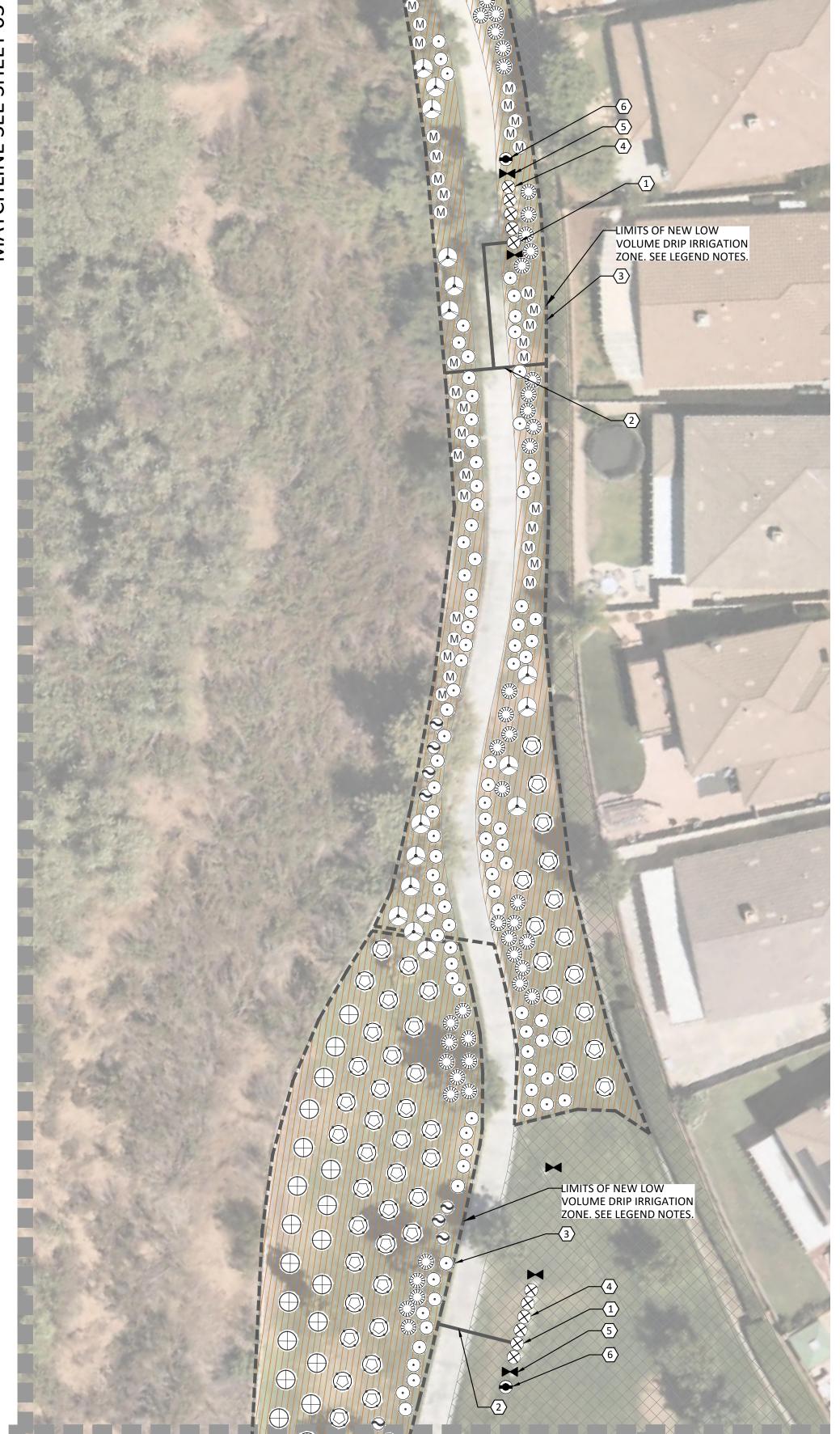
PL-03

SHT. 3 OF 15 DATE: 03-07-2023

TOP OF CONCRETE HEADER SHALL BE 1" ABOVE GRADE FOR TURF AREAS 2500 PSI NATURAL GRAY 6"X6" CONCRETE MOWCURB FINISH SHALL BE SMOOTH TROWEL 3/4" TOOLED RADIUS - TOP OF CONCRETE HEADER SHALL BE 2" ABOVE FINISH GRADE FOR PLANTER AREAS CONTINUOUS #3 REBAR THROUGHOUT LENGTH OF MOWCURB - COMPACTED SUBGRADE - UNDISTURBED SOIL CONTROL JOINT - #4 REBAR TYP. (2" CLEARANCE FROM EDGE 3' MIN. — AS NEEDED 3' MIN. — - AS NEEDED -— LOWER MOWCURB TO FLOWLINE ELEVATION 1. PROVIDE CONTROL JOINTS AT 3' MAX SPACING 2. ANY DAMAGED MOWCURB SHALL BE REPLACED NO PATCHES SHALL BE ALLOWED 3. TAPER MOWCURB AS DIRECTED WHEN FLOW LINES CROSS MOWCURB TYPICAL TAPER IS 6:1 OBTAIN APPROVAL FOR ELEVATION CHANGE OVER 6:1 Consulting 2012 (Any deviation or reproduction of this design must be approved in writing by Valley-Wide Recreation & Park District VALLEY-WIDE RECREATION & PARK DISTRICT LC-33 CONCRETE MOWCURB



MATCHLINE SEE SHEET 02



SEE SHEET 07

SENIOR CIVIL ENGINEER **ACCEPTANCE** DATE POC #24 - ABELIA AND BROOKFIELD PARK PLANTING PLAN

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. TURF REMOVAL RETROFIT AND PLANTING

PL-04 **IMPROVEMENTS**

SHT. <u>4</u> OF <u>15</u> DATE: 03-07-2023

MATCHLINE SEE SHEET 06

ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT DEPARTMENT NEW BUSINESS P.0 OPERATIONS DRAWN BY: BY MARK **ENGINEERING**

146 | 1 GAL. | SALVIA GREGGII **AUTUMN SAGE** (M) | 445 | 1 GAL. | MUHLENBERGIA REGENS DEERGRASS ○ | 758 | 1 GAL. | ROSMARINUS OFFICINALIS TRAILING ROSEMARY J 62 1 GAL. JUNCUS PATENS GRAY RUSH (a) 296 1 GAL. ACACIA REDOLENS ACACIA 'DESERT CARPET' (1) 193 1 GAL. JUNIPERUS WILTONII CREEPING JUNIPER TAE PER | 6"X6" | CONCRETE HEADER (+/-490 L.F.) | POURED IN PLACE PER DETAIL | LC-33 96,780 3" DEEP ORGANIC COVER MULCH TURF REMOVAL +/- 99,600 SQ.FT PL-07 2,820 SO FT 3" DEEP CA. GOLD STABILIZED DG COMPACT TO 90% DENSITY

(1) CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.

HETERMOLES ARBUTIFOLIA

179 5 GAL. LEUCOPHYLLUM FRUITESCENS TEXAS RANGER

PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.

COMMON NAME

DWARF COSTA ROSEMARY

BOTTLEBRUSH 'LITTLE JOHN'

TOYON

DETAIL

PL-04

PL-04

PL-04

PL-04

PL-04 PL-04

PL-04

PL-04

PL-04

PL-04

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4 PROTECT IN PLACE EXISTING RCV TYP.

PLANTING LEGEND

(CL) 92

SYB. QTY. SIZE BOTANICAL NAME

326 | 1 GAL. | WESTRINGA FRUITICOSA

1 GAL. | CALISTOMEN VIMINALIS

(5) PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.

(6) PROTECT IN PLACE EXISTING QCV TYP.

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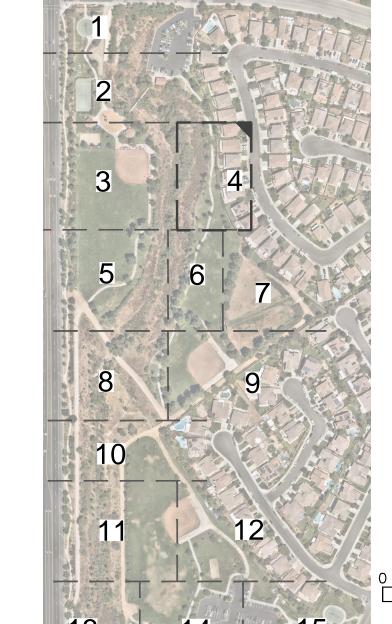
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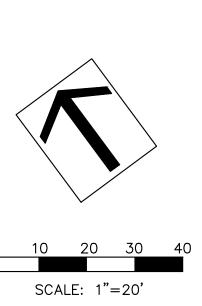
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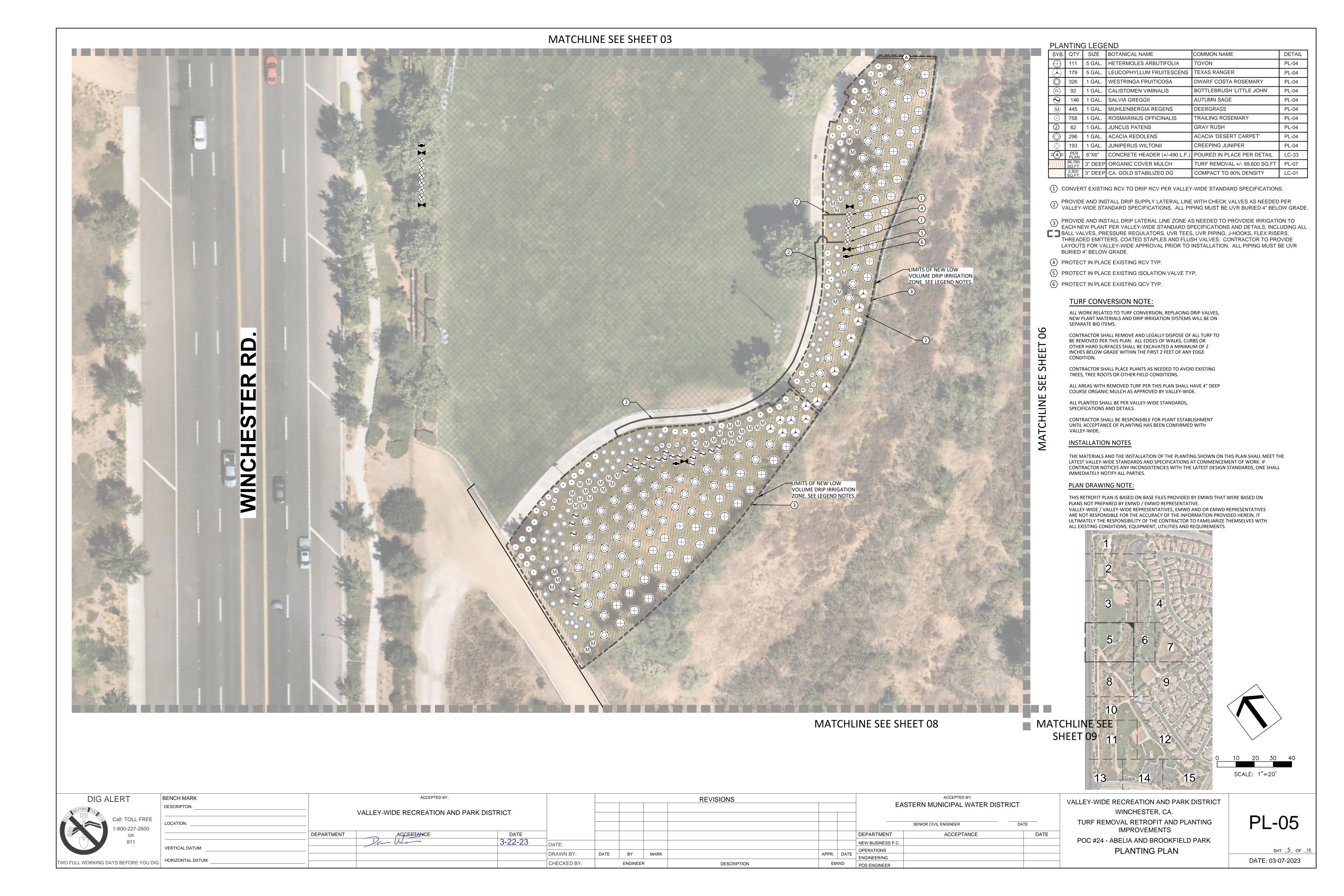


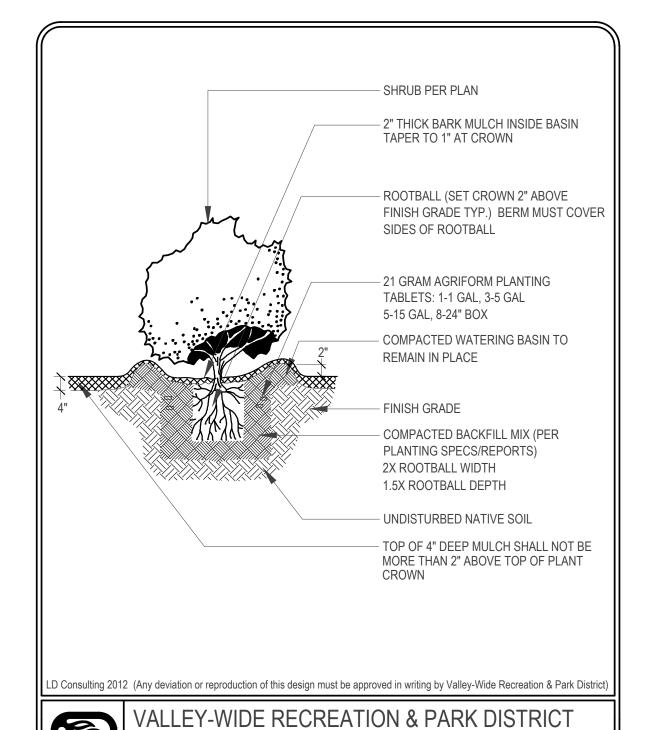


ACCEPTED BY: BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT ACCEPTANCE DATE 3-22-23 VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

CHECKED BY: **ENGINEER**

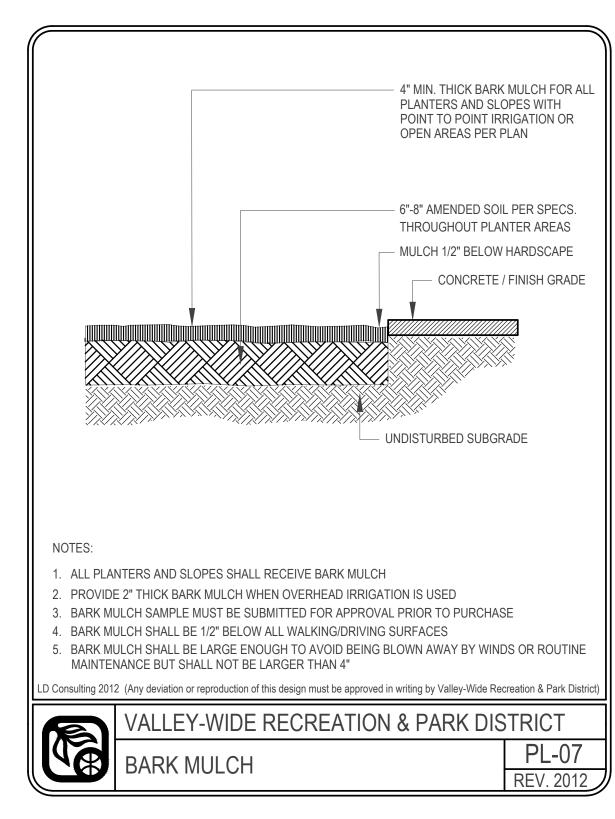
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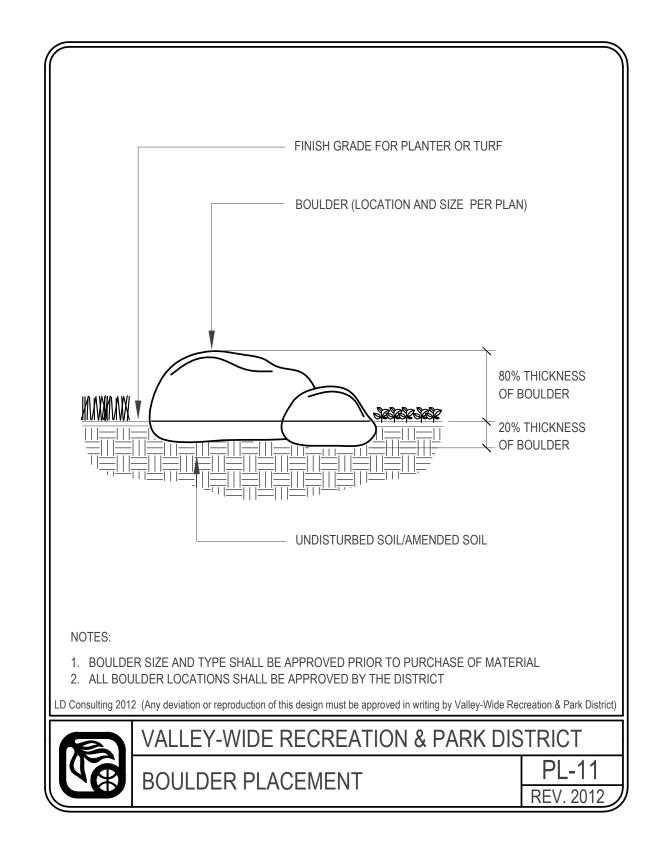


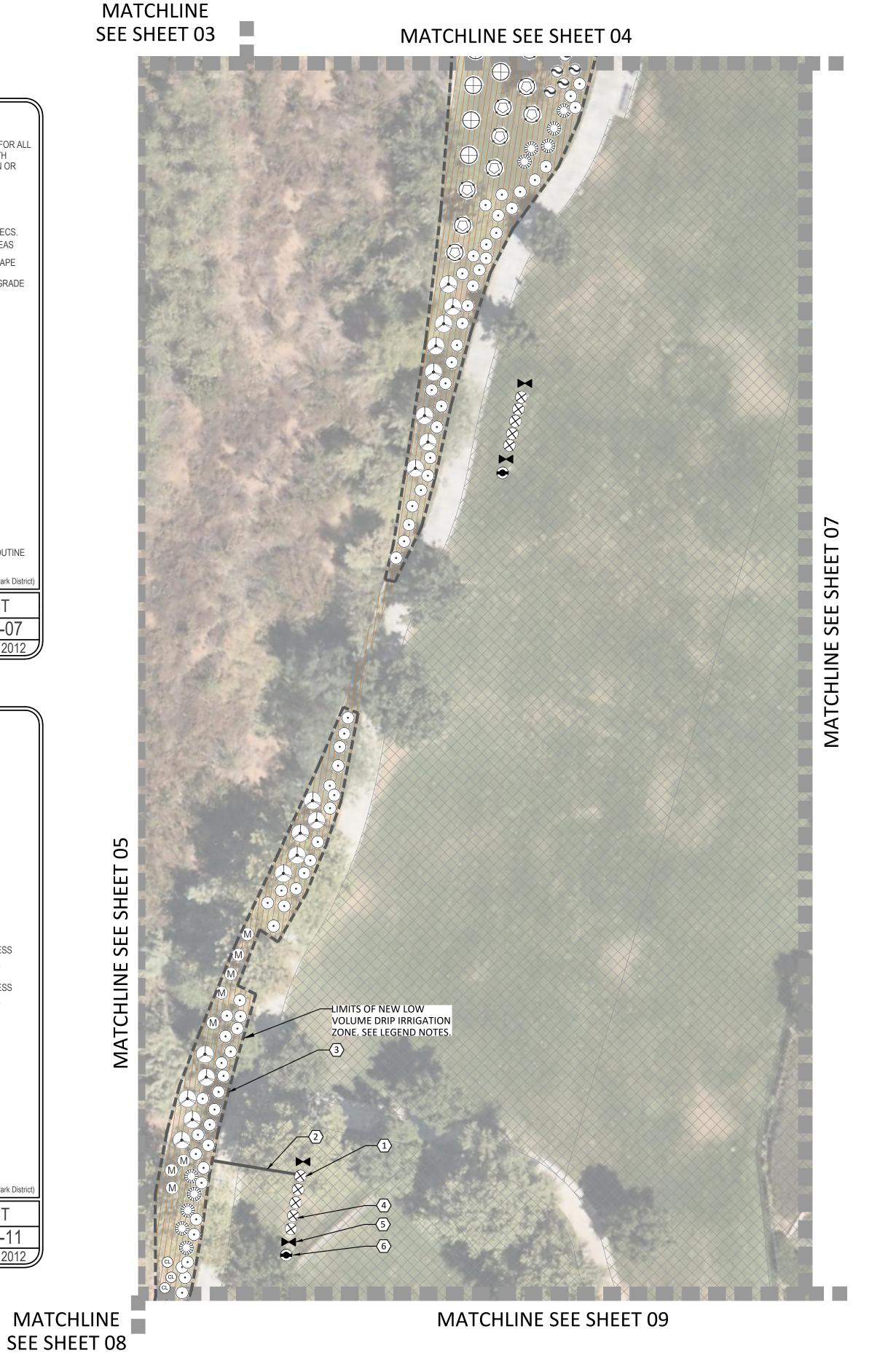


SHRUB PLANTING

PL-04







PLANTING LEGEND

	SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
	\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
		179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
		326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
	CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
	0	146	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
	\bigcirc	445	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
	\odot	758	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
	0	62	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
	\bigcirc	296	1 GAL.	ACACIA REDOLENS	ACACIA 'DESERT CARPET'	PL-04
	\bigcirc	193	1 GAL.	JUNIPERUS WILTONII	CREEPING JUNIPER	PL-04
ſ	A >	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
		96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
		2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01
Ė			3 DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

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4 PROTECT IN PLACE EXISTING RCV TYP.

(5) PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.

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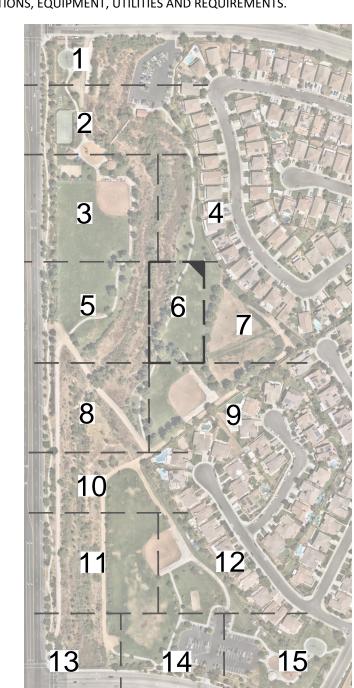
INSTALLATION NOTES

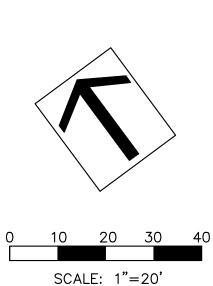
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DIG ALERT

BENCH MARK

DESCRIPTON:

LOCATION:

1-800-227-2600

OR

811

VERTICAL DATUM:

HORIZONTAL DATUM:

ACCEPTED BY: ACCEPTED BY: BENCH MARK REVISIONS EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: SENIOR CIVIL ENGINEER DEPARTMENT ACCEPTANCE DATE DEPARTMENT **ACCEPTANCE** DATE 3-22-23 NEW BUSINESS P.0 VERTICAL DATUM: OPERATIONS DRAWN BY: BY **ENGINEERING** CHECKED BY: **ENGINEER**

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

POC #24 - ABELIA AND BROOKFIELD PARK
PLANTING PLAN

SHT. <u>6</u> OF <u>15</u>

DATE: 03-07-2023

PL-06

MATCHLINE SEE SHEET 04 90 SHEET SEE MATCHLINE

MATCHLINE SEE SHEET 09

DIG ALERT BENCH MARK ACCEPTED BY: ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT Call: TOLL FREE LOCATION: SENIOR CIVIL ENGINEER ACCEPTANCE VISION DATE DEPARTMENT DEPARTMENT ACCEPTANCE DATE 3-22-23 NEW BUSINESS P.C VERTICAL DATUM: OPERATIONS DRAWN BY: BY **ENGINEERING** TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM: _ CHECKED BY: **ENGINEER** DESCRIPTION

PLANTING LEGEND

SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
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	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

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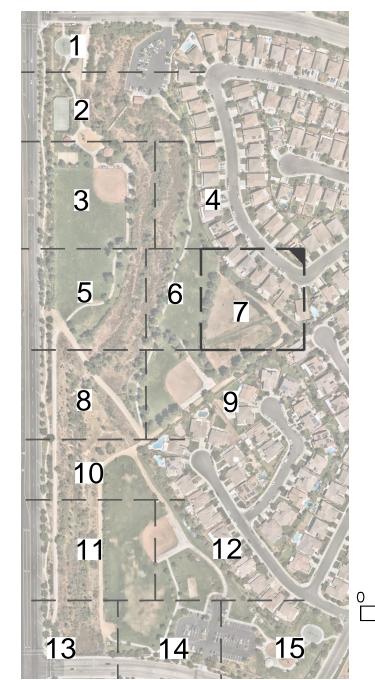
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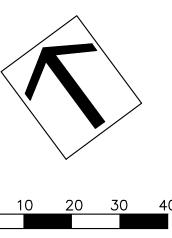
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SCALE: 1"=20'

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. TURF REMOVAL RETROFIT AND PLANTING **IMPROVEMENTS** POC #24 - ABELIA AND BROOKFIELD PARK

PLANTING PLAN

PL-07

SHT. <u>7</u> OF <u>15</u> DATE: 03-07-2023



MATCHLINE SEE SHEET 10

PLANTING LEGEND

SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
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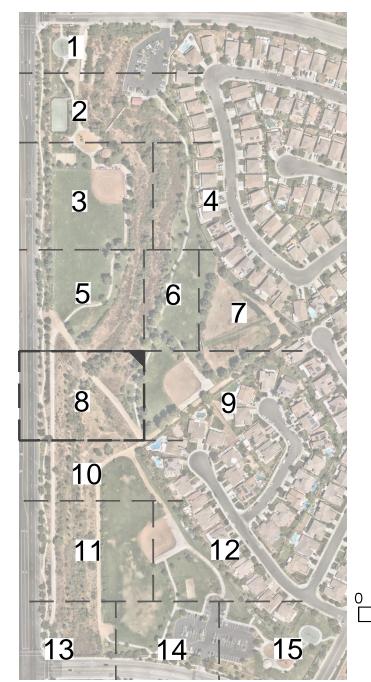
INSTALLATION NOTES

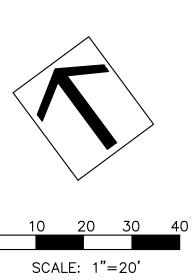
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DIG ALERT Call: TOLL FREE

ACCEPTED BY: REVISIONS ACCEPTED BY: BENCH MARK EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: SENIOR CIVIL ENGINEER ACCEPTANCE DATE DEPARTMENT DEPARTMENT ACCEPTANCE DATE 3-22-23 NEW BUSINESS P.C VERTICAL DATUM: OPERATIONS BY ENGINEERING TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM: _ CHECKED BY: DESCRIPTION POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. TURF REMOVAL RETROFIT AND PLANTING **IMPROVEMENTS**

POC #24 - ABELIA AND BROOKFIELD PARK PLANTING PLAN

PL-08

SHT. <u>8</u> OF <u>15</u> DATE: 03-07-2023



MATCHLINE SEE SHEET 10

PLANTING LEGEND

SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
0	146	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
M	445	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
\odot	758	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
0	62	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
	296	1 GAL.	ACACIA REDOLENS	ACACIA 'DESERT CARPET'	PL-04
	193	1 GAL.	JUNIPERUS WILTONII	CREEPING JUNIPER	PL-04
$=$ A \models	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
	96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

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INSTALLATION NOTES

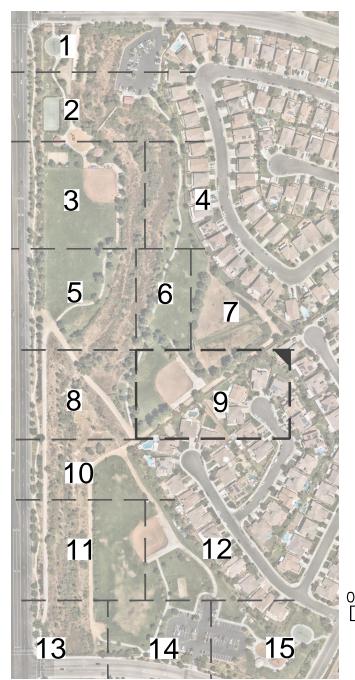
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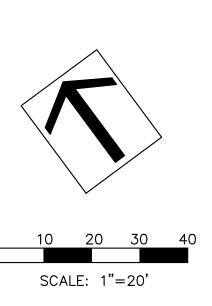
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DIG ALERT	BEI
BEFORE YOU	DES
Call: TOLL FREE	LO
1-800-227-2600 OR	
811	
	VEI
TWO FULL WORKING DAYS BEFORE YOU DIG	НО

NCH MARK ACCEPTED BY: ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT VALLEY-WIDE RECREATION AND PARK DISTRICT OCATION: SENIOR CIVIL ENGINEER ACCEPTANCE DATE DEPARTMENT DEPARTMENT ACCEPTANCE DATE 3-22-23 NEW BUSINESS P.C ERTICAL DATUM: OPERATIONS DRAWN BY: BY **ENGINEERING** ORIZONTAL DATUM: CHECKED BY: **ENGINEER** DESCRIPTION

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

POC #24 - ABELIA AND BROOKFIELD PARK
PLANTING PLAN

PL-09

SHT. 9 OF 15 DATE: 03-07-2023

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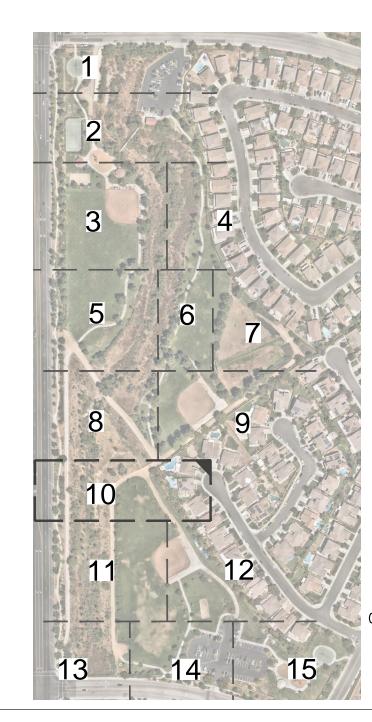
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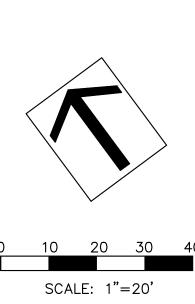
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PLANTING LEGEND

SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
THE STATE OF THE S	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
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$\exists A$ \models	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
	96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

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DIG ALERT	
Call: TOLL FREE 1-800-227-2600 OR 811	
TWO FULL WORKING DAYS BEFORE YOU DIG	

ACCEPTED BY: ACCEPTED BY: BENCH MARK REVISIONS EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: SENIOR CIVIL ENGINEER DEPARTMENT ACCEPTANCE DATE DEPARTMENT ACCEPTANCE NEW BUSINESS P.C VERTICAL DATUM: OPERATIONS DRAWN BY: DATE BY MARK ENGINEERING HORIZONTAL DATUM: CHECKED BY: EMWD POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS
POC #24 - ABELIA AND BROOKFIELD PARK

PLANTING PLAN

DATE

DATE

PL-10

SHT. <u>10</u> OF <u>15</u> DATE: 03-07-2023

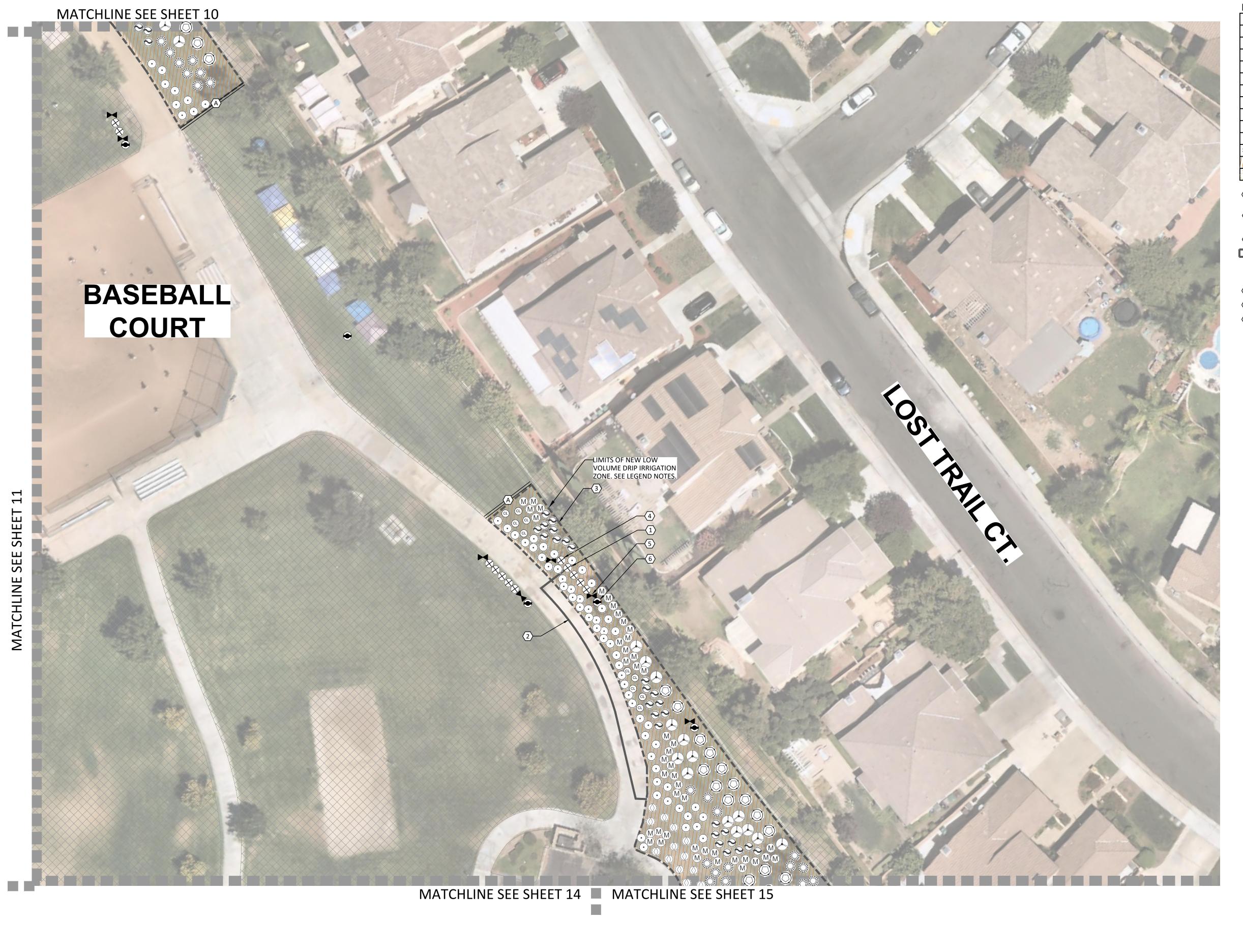


BY

CHECKED BY:

TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

SHT. <u>11</u> OF <u>15</u> DATE: 03-07-2023



PLANTING LEGEND

SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
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	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
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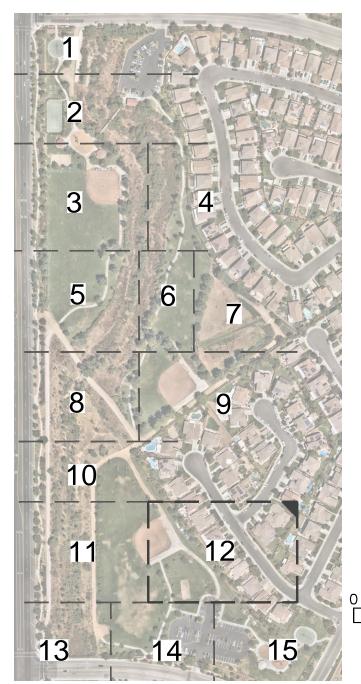
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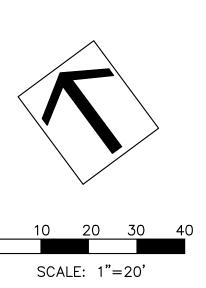
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DIG ALERT

BENCH MARK

DESCRIPTON:

LOCATION:

1-800-227-2600

OR

811

VERTICAL DATUM:

TWO FULL WORKING DAYS BEFORE YOU DIG

BENCH MARK

DESCRIPTON:

LOCATION:

DEPARTMENT

VALLEY-WIDE RECREATION AND PARK DISTRICT

DEPARTMENT

ACCEPTANCE

DATE

VERTICAL DATUM:

HORIZONTAL DATUM:

CHECKED BY:

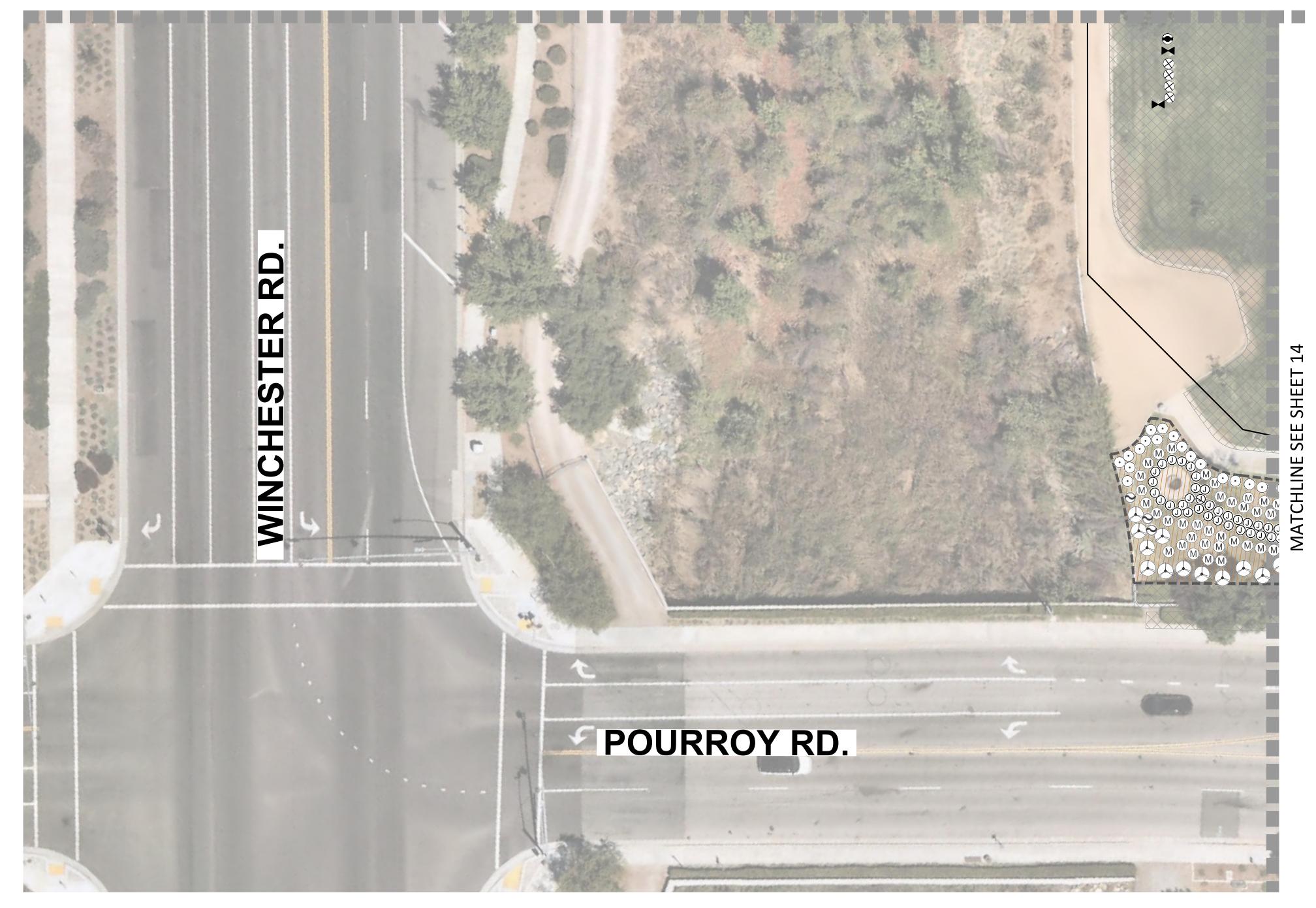
VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

POC #24 - ABELIA AND BROOKFIELD PARK
PLANTING PLAN

PL-12

SHT. <u>12</u> OF <u>15</u> DATE: 03-07-2023

MATCHLINE SEE SHEET 11



PLANTING LEGEND

SYB.	SYB. QTY. SIZE BOTANICAL NAME COMMON NAME DETAIL					
510.		_				
\bigcirc	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04	
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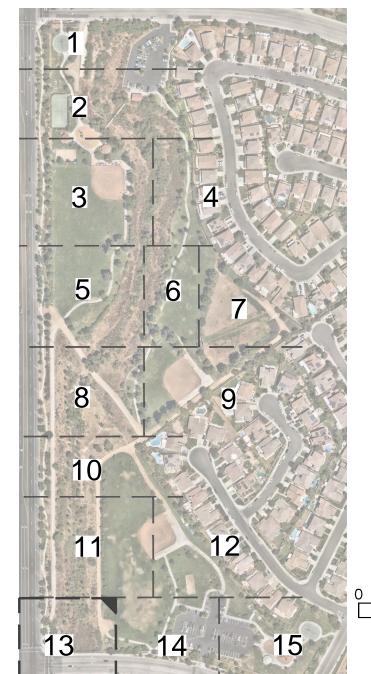
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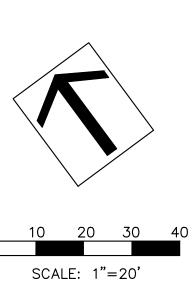
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OR

811

VERTICAL DATUM:

HORIZONTAL DATUM:

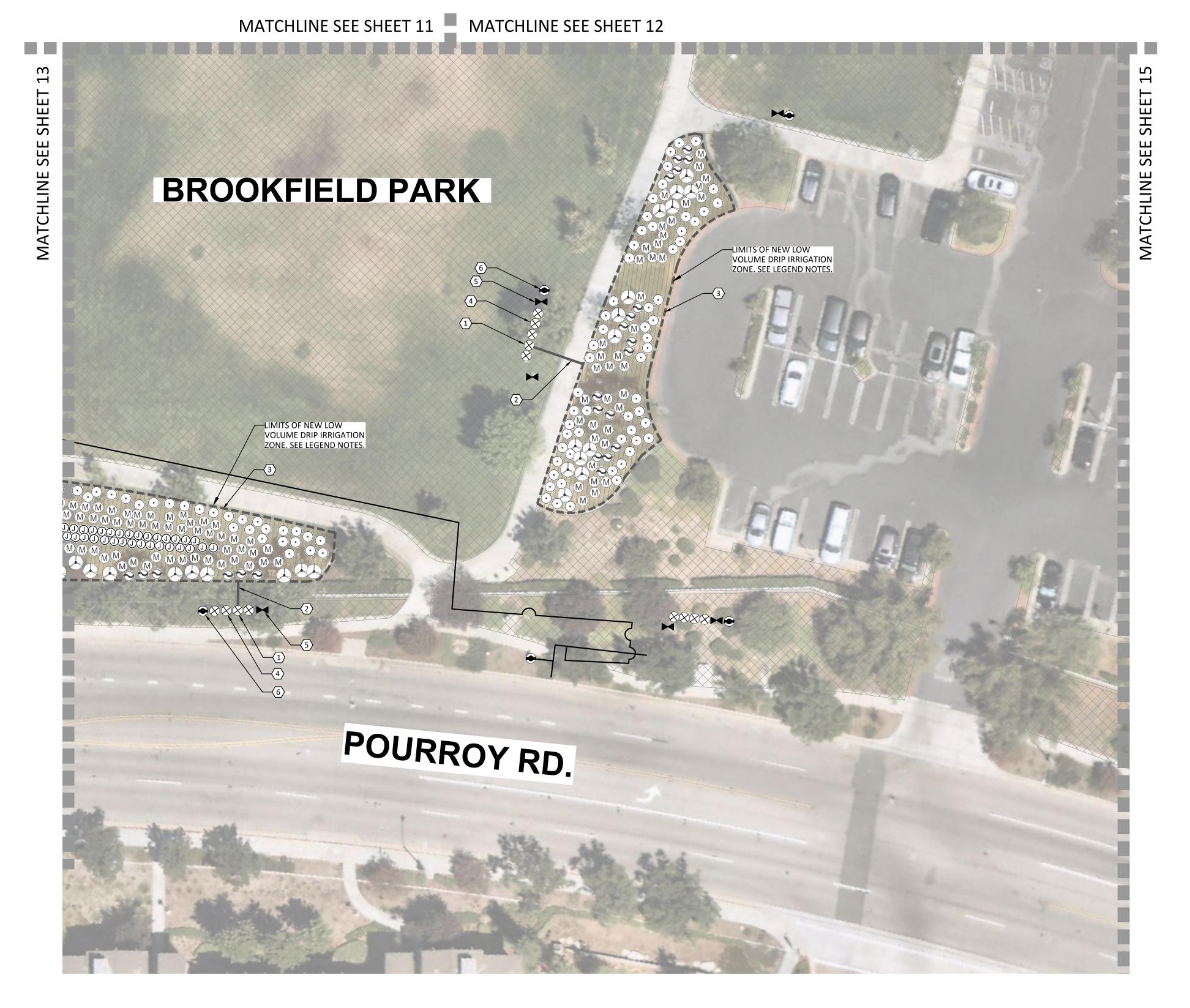
ACCEPTED BY: ACCEPTED BY: BENCH MARK REVISIONS EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: SENIOR CIVIL ENGINEER ACCEPTANCE Van Us DATE DEPARTMENT DEPARTMENT ACCEPTANCE DATE 3-22-23 NEW BUSINESS P.O VERTICAL DATUM: OPERATIONS DRAWN BY: BY ENGINEERING CHECKED BY:

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING

IMPROVEMENTS
POC #24 - ABELIA AND BROOKFIELD PARK
PLANTING PLAN

PL-13

SHT. <u>13</u> OF <u>15</u> DATE: 03-07-2023



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SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
A STATE OF THE STA	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
0	146	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
\bigcirc M	445	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
\odot	758	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
0	62	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
\bigcirc	296	1 GAL.	ACACIA REDOLENS	ACACIA 'DESERT CARPET'	PL-04
\bigcirc	193	1 GAL.	JUNIPERUS WILTONII	CREEPING JUNIPER	PL-04
= (A)=	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
	96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

 $\langle 1
angle$ CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.

PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.

PROVIDE AND INSTALL DRIP LATERAL LINE ZONE AS NEEDED TO PROVDIDE IRRIGATION TO EACH NEW PLANT PER VALLEY-WIDE STANDARD SPECIFICATIONS AND DETAILS, INCLUDING ALL BALL VALVES, PRESSURE REGULATORS, UVR TEES, UVR PIPING, J-HOOKS, FLEX RISERS, THREADED EMITTERS, COATED STAPLES AND FLUSH VALVES. CONTRACTOR TO PROVIDE LAYOUTS FOR VALLEY-WIDE APPROVAL PRIOR TO INSTALLATION. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.

4 PROTECT IN PLACE EXISTING RCV TYP.

5 PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.

6 PROTECT IN PLACE EXISTING QCV TYP.

TURF CONVERSION NOTE:

ALL WORK RELATED TO TURF CONVERSION, REPLACING DRIP VALVES, NEW PLANT MATERIALS AND DRIP IRRIGATION SYSTEMS WILL BE ON SEPARATE BID ITEMS.

CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL TURF TO BE REMOVED PER THIS PLAN. ALL EDGES OF WALKS, CURBS OR OTHER HARD SURFACES SHALL BE EXCAVATED A MINIMUM OF 2 INCHES BELOW GRADE WITHIN THE FIRST 2 FEET OF ANY EDGE CONDITION.

CONTRACTOR SHALL PLACE PLANTS AS NEEDED TO AVOID EXISTING TREES, TREE ROOTS OR OTHER FIELD CONDITIONS.

ALL AREAS WITH REMOVED TURF PER THIS PLAN SHALL HAVE 4" DEEP COURSE ORGANIC MULCH AS APPROVED BY VALLEY-WIDE.

ALL PLANTED SHALL BE PER VALLEY-WIDE STANDARDS, SPECIFICATIONS AND DETAILS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PLANT ESTABLISHMENT UNTIL ACCEPTANCE OF PLANTING HAS BEEN CONFIRMED WITH VALLEY-WIDE.

INSTALLATION NOTES

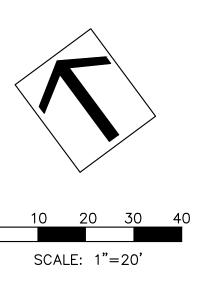
THE MATERIALS AND THE INSTALLATION OF THE PLANTING SHOWN ON THIS PLAN SHALL MEET THE LATEST VALLEY-WIDE STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

PLAN DRAWING NOTE:

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VALLEY-WIDE / VALLEY-WIDE REPRESENTATIVES, EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.





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EASTERN MUNICIPAL WATER DISTRICT

SENIOR CIVIL ENGINEER

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DEPARTMENT

ACCEPTANCE

NEW BUSINESS P.C.

OPERATIONS

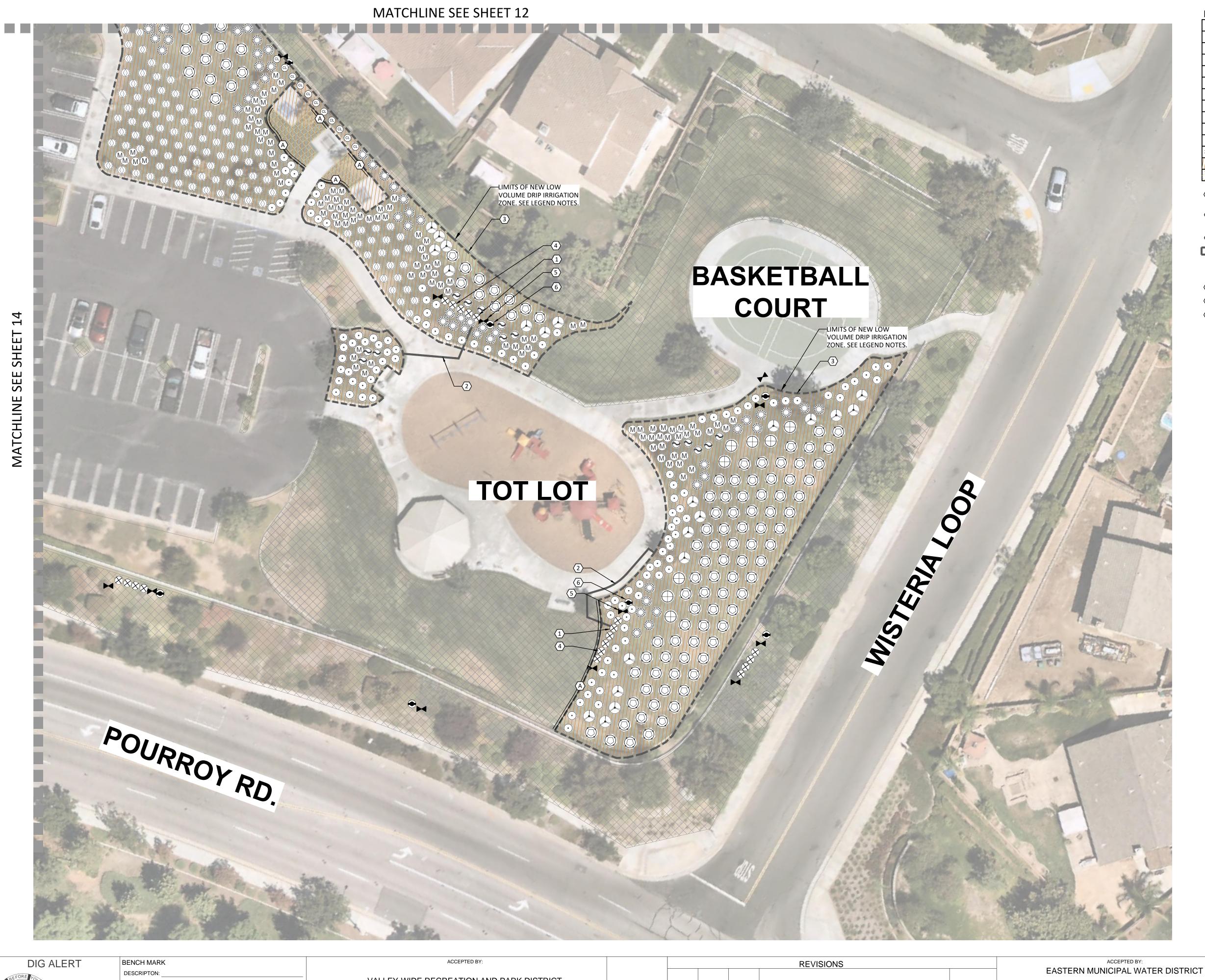
ENGINEERING

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS
POC #24 - ABELIA AND BROOKFIELD PARK

PLANTING PLAN

PL-14

SHT. <u>14</u> OF <u>15</u> DATE: 03-07-2023



SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\bigcirc	111	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	179	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
	326	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	92	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
0	146	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
M	445	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
\odot	758	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
<u> </u>	62	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
	296	1 GAL.	ACACIA REDOLENS	ACACIA 'DESERT CARPET'	PL-04
	193	1 GAL.	JUNIPERUS WILTONII	CREEPING JUNIPER	PL-04
= (A)=	PER PLAN	6"X6"	CONCRETE HEADER (+/-490 L.F.)	POURED IN PLACE PER DETAIL	LC-33
	96,780 SQ.FT.	3" DEEP	ORGANIC COVER MULCH	TURF REMOVAL +/- 99,600 SQ.FT	PL-07
	2,820 SQ.FT.	3" DEEP	CA. GOLD STABILIZED DG	COMPACT TO 90% DENSITY	LC-01

- (1) CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.
- PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.
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- 4 PROTECT IN PLACE EXISTING RCV TYP.
- (5) PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.
- (6) PROTECT IN PLACE EXISTING QCV TYP.

TURF CONVERSION NOTE:

BURIED 4" BELOW GRADE.

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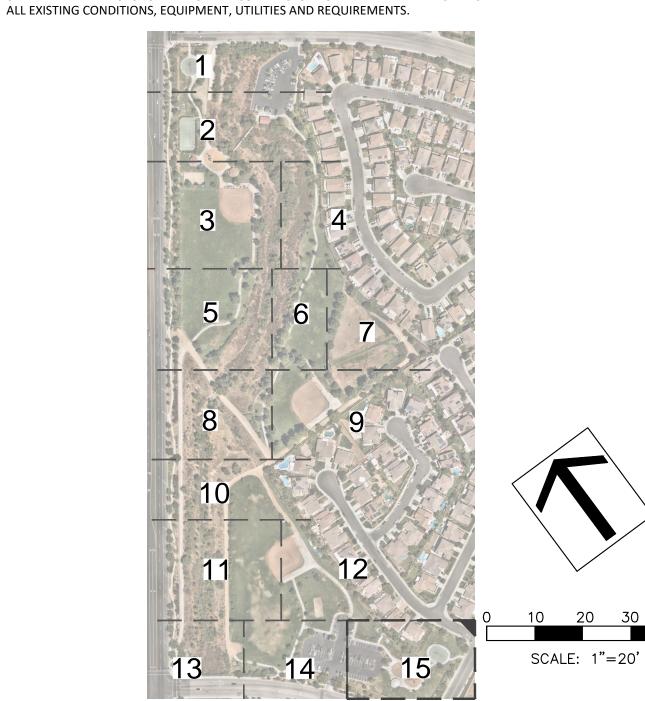
INSTALLATION NOTES

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DIG ALERT

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EASTERN MUNICIPAL WATER DISTRICT VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: SENIOR CIVIL ENGINEER ACCEPTANCE Van Us DATE DEPARTMENT DEPARTMENT ACCEPTANCE DATE 3-22-23 NEW BUSINESS P.O VERTICAL DATUM: OPERATIONS BY **ENGINEERING** CHECKED BY: DESCRIPTION

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

POC #24 - ABELIA AND BROOKFIELD PARK
PLANTING PLAN

PL-15

SHT. 15 OF 15 DATE: 03-07-2023



MATCHLINE SEE SHEET 2

QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
55	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
60	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
35	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
6	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
7	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
36	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
98	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
103	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
PER PLAN	11,900 SQ.FT.	AREA OF TURF REMOVAL		
PER PLAN		ORGANIC COVER MULCH		PL-07
	55 60 35 6 7 36 98 103 PER PLAN PER	55 5 GAL. 60 5 GAL. 35 1 GAL. 6 1 GAL. 7 1 GAL. 36 1 GAL. 98 1 GAL. 103 1 GAL. PER 11,900 PLAN SQ.FT. PER 3" DEEP	55 5 GAL. HETERMOLES ARBUTIFOLIA 60 5 GAL. LEUCOPHYLLUM FRUITESCENS 35 1 GAL. WESTRINGA FRUITICOSA 6 1 GAL. CALISTOMEN VIMINALIS 7 1 GAL. SALVIA GREGGII 36 1 GAL. MUHLENBERGIA REGENS 98 1 GAL. ROSMARINUS OFFICINALIS 103 1 GAL. JUNCUS PATENS PER 11,900 SQ.FT. AREA OF TURF REMOVAL PER 3" DEED OPGANIC COVER MULICH	55 5 GAL. HETERMOLES ARBUTIFOLIA TOYON 60 5 GAL. LEUCOPHYLLUM FRUITESCENS TEXAS RANGER 35 1 GAL. WESTRINGA FRUITICOSA DWARF COSTA ROSEMARY 6 1 GAL. CALISTOMEN VIMINALIS BOTTLEBRUSH 'LITTLE JOHN' 7 1 GAL. SALVIA GREGGII AUTUMN SAGE 36 1 GAL. MUHLENBERGIA REGENS DEERGRASS 98 1 GAL. ROSMARINUS OFFICINALIS TRAILING ROSEMARY 103 1 GAL. JUNCUS PATENS GRAY RUSH PER 11,900 SQ.FT. AREA OF TURF REMOVAL PER 3" DEER OPGANIC COVER MULICH

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- 7 VEGETATIVE SWALE STORM WATER FEATURE PER DETAIL.

TURF CONVERSION NOTE:

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INSTALLATION NOTES

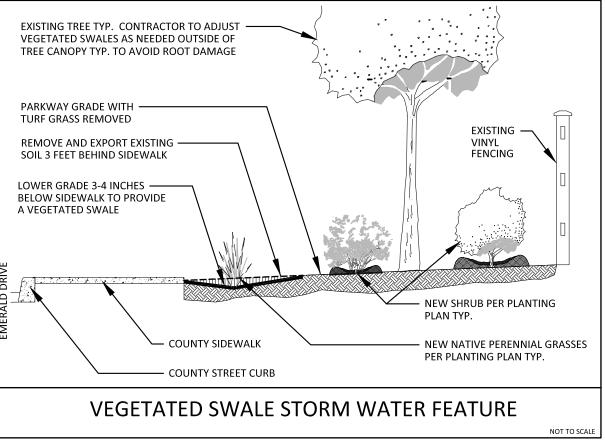
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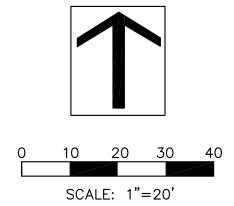
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 VALLEY-WIDE / VALLEY-WIDE REPRESENTATIVES, EMWD AND OR EMWD REPRESENTATIVES

 ARE NOT RESPON
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VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING

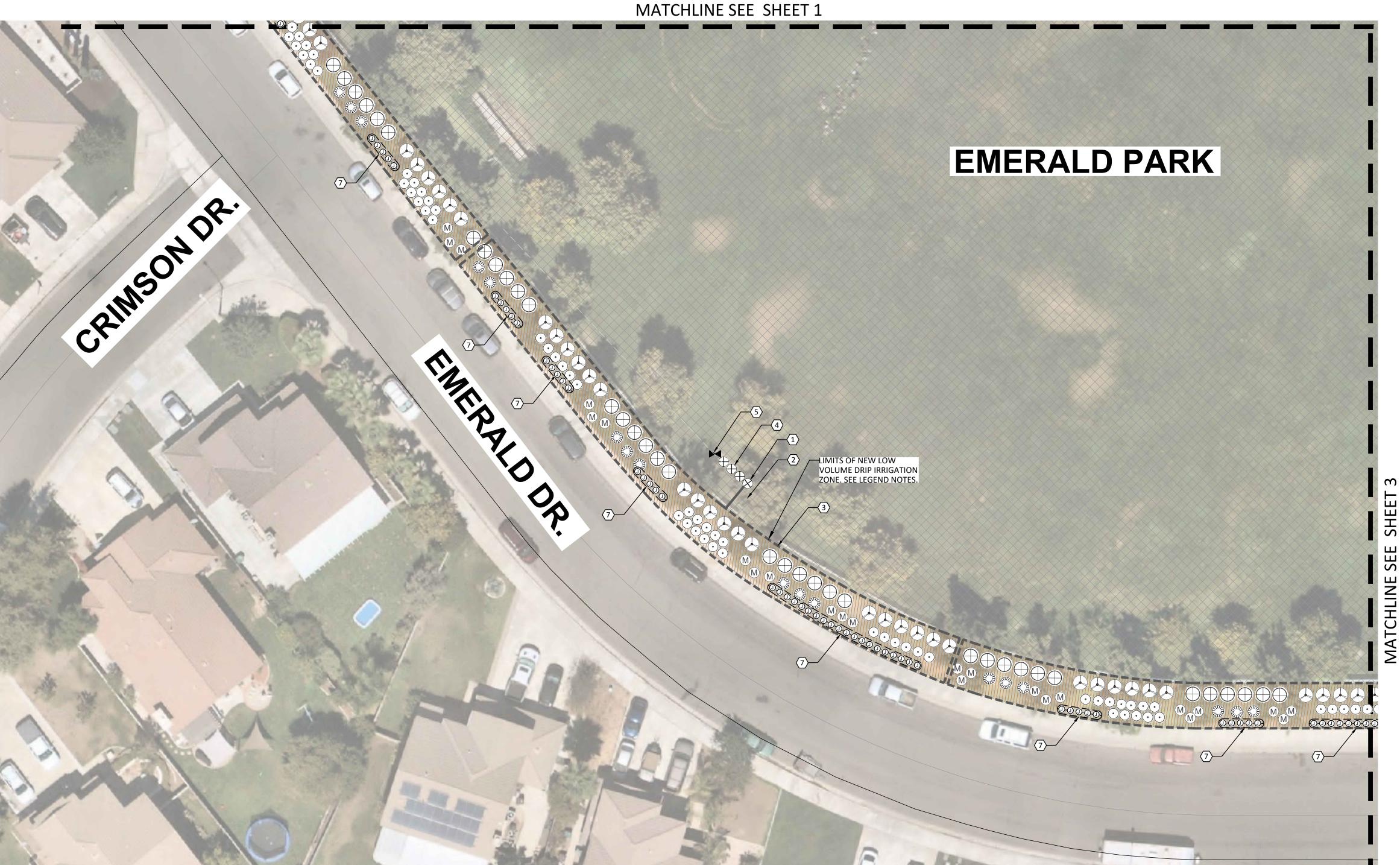
IMPROVEMENTS POC #82 - EMERALD PARK

PLANTING PLAN

PL-01

DATE: 03-15-2023

SHT. <u>1</u> OF <u>3</u>



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SYB.	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	DETAIL
\oplus	55	5 GAL.	HETERMOLES ARBUTIFOLIA	TOYON	PL-04
	60	5 GAL.	LEUCOPHYLLUM FRUITESCENS	TEXAS RANGER	PL-04
EMP EMP	35	1 GAL.	WESTRINGA FRUITICOSA	DWARF COSTA ROSEMARY	PL-04
CL	6	1 GAL.	CALISTOMEN VIMINALIS	BOTTLEBRUSH 'LITTLE JOHN'	PL-04
9	7	1 GAL.	SALVIA GREGGII	AUTUMN SAGE	PL-04
M	36	1 GAL.	MUHLENBERGIA REGENS	DEERGRASS	PL-04
\odot	98	1 GAL.	ROSMARINUS OFFICINALIS	TRAILING ROSEMARY	PL-04
0	103	1 GAL.	JUNCUS PATENS	GRAY RUSH	PL-04
	PER PLAN	11,900 SQ.FT.	AREA OF TURF REMOVAL		
	PER PLAN	3" DEEP	ORGANIC COVER MULCH		PL-07

- (1) CONVERT EXISTING RCV TO DRIP RCV PER VALLEY-WIDE STANDARD SPECIFICATIONS.
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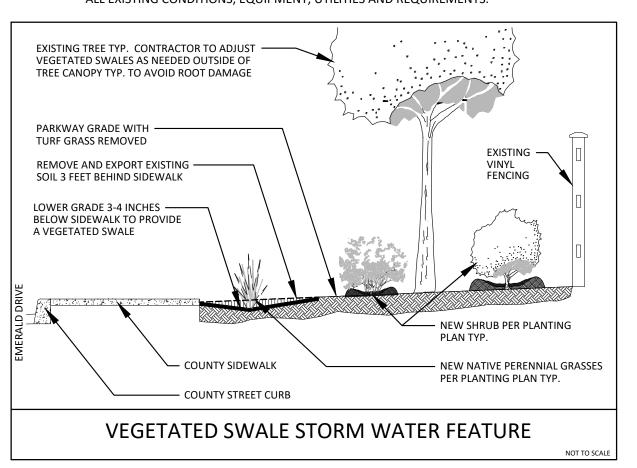
INSTALLATION NOTES

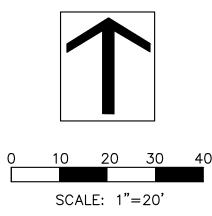
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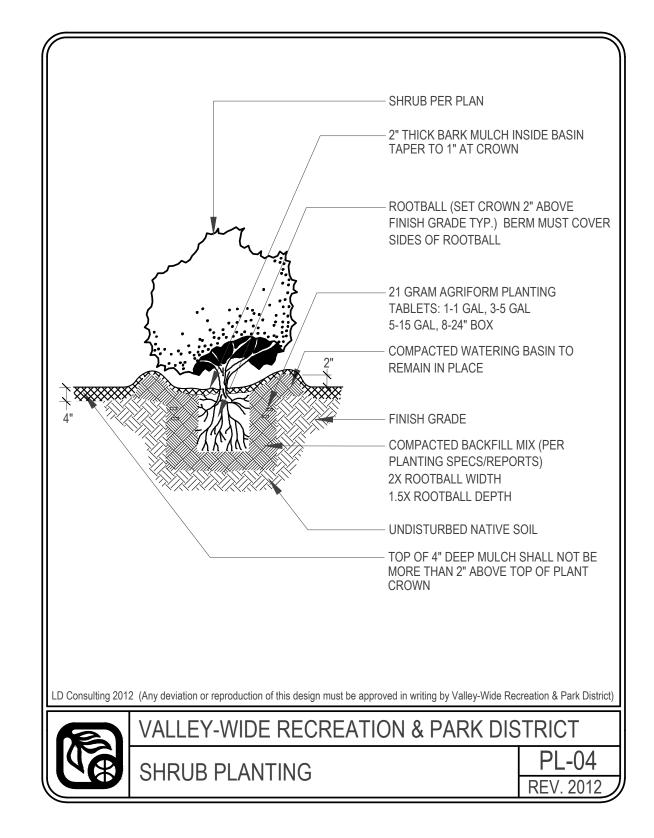
BENCH MARK		ACCEPTED BY:						REVISIONS			ACCEPTED BY:	
DESCRIPTON:		VALLEY-WIDE RECREATION AND	DADK DISTDICT							EA	STERN MUNICIPAL WATER DI	STRICT
		VALLET-WIDE RECREATION AND	PARK DISTRICT									
LOCATION:											SENIOR CIVIL ENGINEER	DATE
	DEPARTMENT	ACCEPTANCE	DATE							DEPARTMENT	ACCEPTANCE	DATE
VERTICAL RATUM		In Un	3-22-23	DATE:						NEW BUSINESS P.C.		
VERTICAL DATUM:				DRAWN BY:	DATE	BY	MARK		APPR. DATE	OPERATIONS		
HORIZONTAL DATUM:				CHECKED BY:		ENGINEER		DESCRIPTION	EMWD	POS ENGINEER		

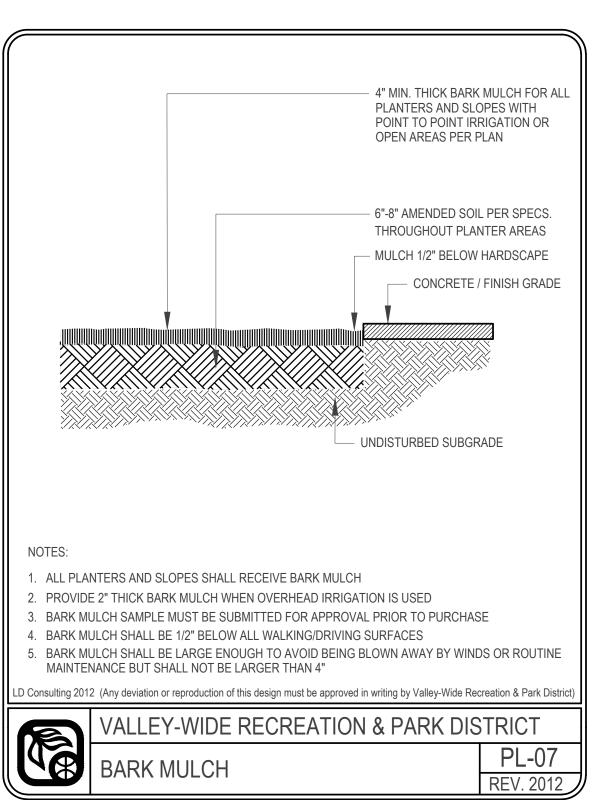
VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

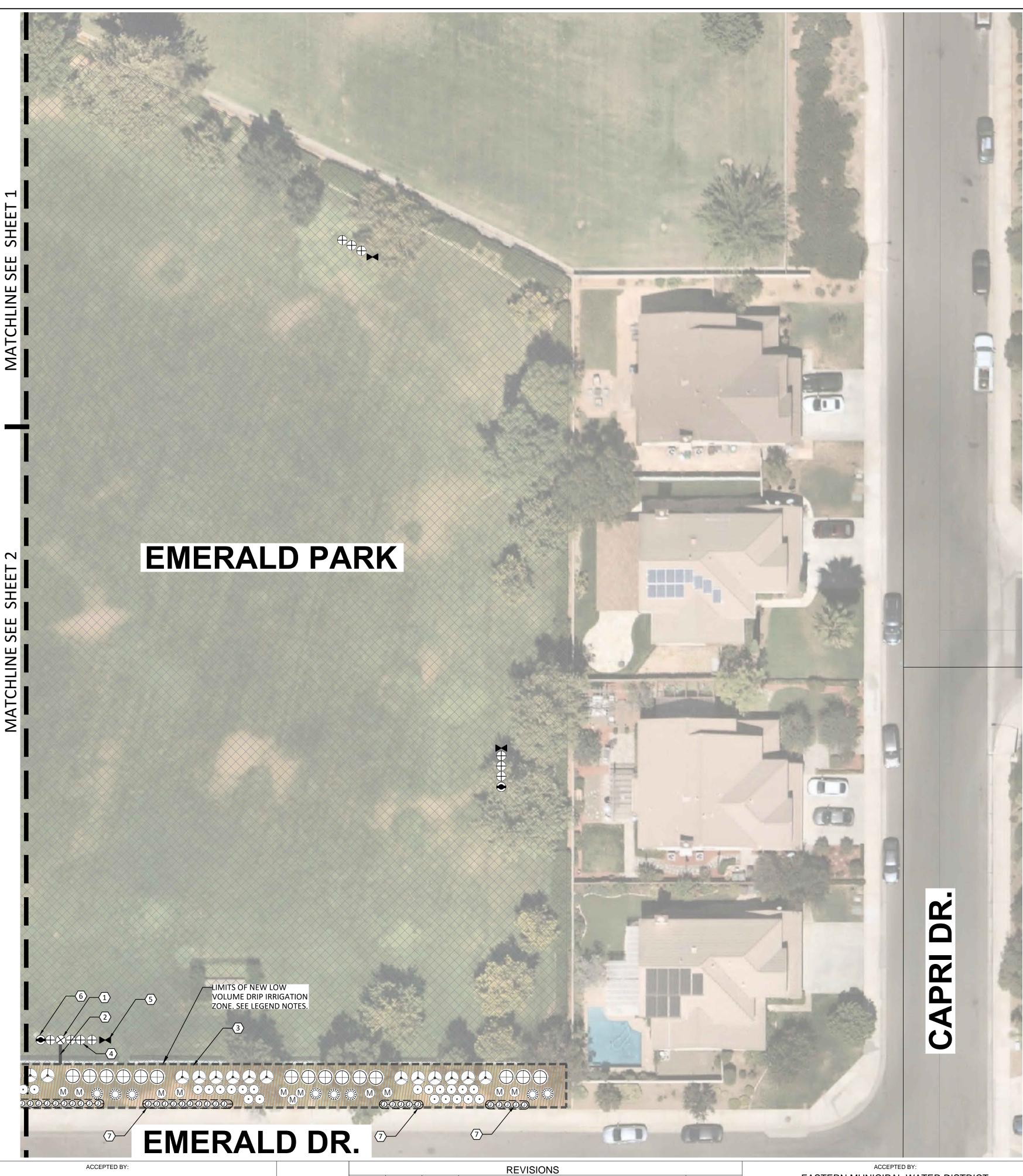
POC #82 - EMERALD PARK
PLANTING PLAN

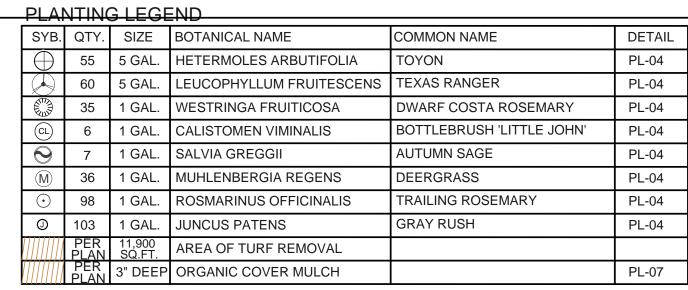
PL-02

SHT. 2 OF 3 DATE: 03-15-2023









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- PROVIDE AND INSTALL DRIP SUPPLY LATERAL LINE WITH CHECK VALVES AS NEEDED PER VALLEY-WIDE STANDARD SPECIFICATIONS. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.
- PROVIDE AND INSTALL DRIP LATERAL LINE ZONE AS NEEDED TO PROVDIDE IRRIGATION TO
- EACH NEW PLANT PER VALLEY-WIDE STANDARD SPECIFICATIONS AND DETAILS, INCLUDING ALL BALL VALVES, PRESSURE REGULATORS, UVR TEES, UVR PIPING, J-HOOKS, FLEX RISERS, THREADED EMITTERS, COATED STAPLES AND FLUSH VALVES. CONTRACTOR TO PROVIDE LAYOUTS FOR VALLEY-WIDE APPROVAL PRIOR TO INSTALLATION. ALL PIPING MUST BE UVR BURIED 4" BELOW GRADE.
- 4 PROTECT IN PLACE EXISTING RCV TYP.
- 5 PROTECT IN PLACE EXISTING ISOLATION VALVE TYP.
- 6 PROTECT IN PLACE EXISTING QCV TYP.
- (7) VEGETATIVE SWALE STORM WATER FEATURE PER DETAIL.

TURF CONVERSION NOTE:

ALL WORK RELATED TO TURF CONVERSION, REPLACING DRIP VALVES, NEW PLANT MATERIALS AND DRIP IRRIGATION SYSTEMS WILL BE ON SEPARATE BID ITEMS.

CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL TURF TO BE REMOVED PER THIS PLAN. ALL EDGES OF WALKS, CURBS OR OTHER HARD SURFACES SHALL BE EXCAVATED A MINIMUM OF 2 INCHES BELOW GRADE WITHIN THE FIRST 2 FEET OF ANY EDGE CONDITION.

CONTRACTOR SHALL PLACE PLANTS AS NEEDED TO AVOID EXISTING

TREES, TREE ROOTS OR OTHER FIELD CONDITIONS.

ALL AREAS WITH REMOVED TURF PER THIS PLAN SHALL HAVE 4" DEEP

COURSE ORGANIC MULCH AS APPROVED BY VALLEY-WIDE.

ALL PLANTED SHALL BE PER VALLEY-WIDE STANDARDS,

CONTRACTOR SHALL BE RESPONSIBLE FOR PLANT ESTABLISHMENT UNTIL ACCEPTANCE OF PLANTING HAS BEEN CONFIRMED WITH VALLEY-WIDE.

INSTALLATION NOTES

SPECIFICATIONS AND DETAILS.

THE MATERIALS AND THE INSTALLATION OF THE PLANTING SHOWN ON THIS PLAN SHALL MEET THE LATEST VALLEY-WIDE STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

PLAN DRAWING NOTE:

THIS RETROFIT PLAN IS BASED ON BASE FILES PROVIDED BY EMWD THAT WERE BASED ON PLANS NOT PREPARED BY EMWD / EMWD REPRESENTATIVE.

VALLEY-WIDE / VALLEY-WIDE REPRESENTATIVES, EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH

ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

EXISTING TREE TYP. CONTRACTOR TO ADJUST VEGETATED SWALES AS NEEDED OUTSIDE OF TREE CANOPY TYP. TO AVOID ROOT DAMAGE

PARKWAY GRADE WITH TURF GRASS REMOVED

REMOVE AND EXPORT EXISTING SOIL 3 FEET BEHIND SIDEWALK

LOWER GRADE 3-4 INCHES BELOW SIDEWALK TO PROVIDE A VEGETATED SWALE

NEW SHRUB PER PLANTING PLAN TYP.

COUNTY SIDEWALK

NEW NATIVE PERENNIAL GRASSES PER PLANTING PLAN TYP.

VEGETATED SWALE STORM WATER FEATURE

DIG ALERT

BENCH MARK

DESCRIPTON:

LOCATION:

1-800-227-2600

OR

811

VERTICAL DATUM:

HORIZONTAL DATUM:

BENCH MARK

DESCRIPTON:

LOCATION:

VERTICAL DATUM:

HORIZONTAL DATUM:

VALLEY-WIDE RECREATION AND PARK DISTRICT

DEPARTMENT

ACCEPTANCE

DATE

3-22-23

CHECKED BY

ENGINEER

REVISIONS

DEPARTMENT

DATE:

DRAWN BY:

DATE

BY

MARK

REVISIONS

DEPARTMENT

NEW BUSINESS P.C.

OPERATIONS

ENGINEERING

EASTERN MUNICIPAL WATER DISTRICT

SENIOR CIVIL ENGINEER

DATE

RETMENT

ACCEPTANCE

DATE

BUSINESS P.C.

ATIONS

BEERING

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
TURF REMOVAL RETROFIT AND PLANTING
IMPROVEMENTS

POC #82 - EMERALD PARK

PLANTING PLAN

— COUNTY STREET CURB

PL-03

SHT. <u>3</u> OF <u>3</u>

DATE: 03-15-2023

VALLEY-WIDE RECREATION AND PARK DISTRICT

RECYCLED WATER RETROFIT PLAN

POC # 28 (POURROY RD., WISTERIA LOOP, GERANIUM ST. AND ABELIA ST.)

CITY OF WINCHESTER, CALIFORNIA

EMWD STANDARD RECYCLED WATER IRRIGATION PLAN NOTES

- 1. THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EMWD RECYCLED WATER IRRIGATION GUIDELINES, AND EMWD STANDARDS AND SPECIFICATIONS.
- THE USE OF RECYCLED WATER SHALL ADHERE TO CDPH TITLE 22, DIVISION 4, CHAPTER 3 OF THE CALIFORNIA CODE OF REGULATIONS AND THE CURRENT RULES, ORDINANCES, REGULATIONS OF
- 3. EMWD REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EMWD FIELD ENGINEERING DEPARTMENT AT (951) 928-3777, EXTENSION 4830.
- 4. THE EASTERN MUNICIPAL WATER DISTRICT OPERATION DEPARTMENT SHALL BE NOTIFIED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AT (951) 679-3222. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND
- WHEN POTABLE WATER IS ONSITE, THE CDPH TITLE 22 REQUIRES A CROSS CONNECTION SHUTDOWN TEST TO PRECEDE THE FINAL RELEASE OF THE IRRIGATION SYSTEM. THIS TEST WILL
- 6. THE RECYCLED WATER IRRIGATION PLAN IS A "LIVING" DOCUMENT OF RECORD THAT SHALL BE UPDATED IF THE PROJECT CONDITIONS, THE SITE PLAN, FACILITIES, IRRIGATED AREA, IRRIGATION DEMAND, OR DATA RELATIVE TO THE SITE CHANGES ONCE IT VARIES FROM THE ACCEPTED PLAN. DELTA REVISIONS OF THE PLAN SHALL BE AS DEEMED NECESSARY BY EMWD TO MAINTAIN ACCURATE DOCUMENT RECORDS OF THE PROJECT SITE AND LANDSCAPE IRRIGATION INSTALLATION.
- 7. ANY PROPOSED CHANGES TO A SYSTEM DURING CONSTRUCTION MUST BE SUBMITTED TO EMWD FOR AUTHORIZATION OF THE CHANGES PRIOR TO THE CHANGE BEING MADE IN THE FIELD.
- 8. UPON FINAL ACCEPTANCE OF AN IRRIGATION SYSTEM ANY FUTURE MODIFICATIONS MUST BE APPROVED THROUGH EMWD PRIOR TO THE START OF CONSTRUCTION
- 9. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS, ANY WATER WELLS AND/OR WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE
- 10. DURING CONSTRUCTION, ALL RECYCLED IRRIGATION SYSTEMS SHALL BE CONNECTED TO A TEMPORARY POTABLE WATER SOURCE AT A T-METER CONNECTION TO A PUBLIC FIRE HYDRANT AS APPROVED BY EMWD. THIS CONNECTION WILL SERVE THE IRRIGATION SYSTEM WITH POTABLE WATER UNTIL THE METER IS RELEASED AT PROJECT APPROVAL. ALL TEMPORARY POTABLE CONNECTIONS FOR CONSTRUCTION OR IRRIGATION MUST BE HI-LINED THROUGH A T-METER AND AN APPROVED ABOVE GROUND REDUCED PRESSURE (RP) PRINCIPAL BACKFLOW DEVICE WITHIN 3 FEET OF METER. NO PURPLE COLORED PIPING OR APPURTENANCES SHALL BE CONNECTED TO ANY POTABLE WATER SOURCE.
- 11. REDUCED PRESSURE (RP) PRINCIPAL BACKFLOW DEVICES MUST BE APPROVED AND TESTED BY AN EMWD APPROVED BACKFLOW TESTER (A LIST OF APPROVED TESTERS ARE AVAILABLE UPON
- 12. CROSS CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED. FINES MAY BE LEVIED.
- 13. INTERCONNECTION OF IRRIGATION PRESSURE SUPPLY MAINLINES ORIGINATING FROM MORE THAN ONE METER IS STRICTLY PROHIBITED.
- 14. NO PONDING, RUNOFF OR OVERSPRAY IS PERMITTED, ADJUST ALL SPRINKLER HEADS TO MINIMIZE OVERSPRAY ONTO SIDEWALKS, STREETS, DRINKING FOUNTAINS, DECORATIVE FOUNTAINS, COMFORT STATIONS, PLAYGROUND EQUIPMENT, PICNIC TABLES, BBQ, PRIVATE LOTS, POTABLE WATER AREAS AND EQUIPMENT, FOOD PREPARATION, OUTDOOR EATING AREAS, OR NON-DESIGNATED USE AREAS MUST NOT BE SUBJECTED TO RECYCLED WATER OVERSPRAY, WINDBLOWN SPRAY, RUNOFF, PONDING, OR UNAUTHORIZED USE. LACK OF PREVENTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE, OR SYSTEM OPERATION, IS STRICTLY
- 15. HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER SYSTEMS. POTABLE QUICK COUPLERS ARE NOT ALLOWED WITHIN THE RECYCLED WATER IRRIGATED AREA.
- 16. QUICK COUPLING VALVES SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER USE WITH BRASS CONSTRUCTION, A SPECIAL QUICK COUPLER KEY WITH AN ACME THREAD FOR OPENING AND CLOSING THE VALVE. QUICK COUPLER VALVES CANNOT BE LOCATED WITHIN 50 FEET OF FOOD PREPARATION, OUTDOOR EATING AREAS, OR DESIGNATED CHILDREN PLAY EQUIPMENT OR WITHIN THE FENCED PERIMETER SURROUNDING SWIMMING POOLS.
- 17. ALL NEW ON-SITE RECYCLED WATER PIPING INSTALLED ON THIS PROJECT SHALL BE PURPLE IN COLOR, PANTONE 522C AND IDENTIFIED IN ACCORDANCE WITH THE CURRENT CDPH GUIDELINES AND EASTERN MUNICIPAL WATER DISTRICTS STANDARDS AND SPECIFICATIONS.
- 18. WARNING TAPE FOR THE RECYCLED WATER PIPING SHALL BE PURPLE IN COLOR, PANTONE 522C, WITH THE WORDS "CAUTION: RECYCLED WATER" IMPRINTED IN MINIMUM 1 INCH HIGH LETTERS. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT. THE WARNING TAPE SHALL BE INSTALLED CONTINUOUSLY ABOVE THE NEW RECYCLED WATER IRRIGATION MAINLINE.

- 20. EACH AUTOMATIC CONTROLLER AND ITS ASSOCIATED EQUIPMENT SHALL BE IDENTIFIED WITH A SIGN BEARING THE WORDS "CAUTION: RECYCLED WATER DO NOT DRINK", WITH LETTERS AT LEAST 1 INCH HIGH ON A PURPLE BACKGROUND AND WITH A "DO NOT DRINK" SYMBOL SIGN. THE SIGNS SHALL BE PLACED AS TO BE READILY SEEN BY ANY OPERATIONS PERSONNEL UTILIZING
- 21. SIGNS OR DECALS WITH "RECYCLED WATER, DO NOT DRINK" AND THE DO NOT DRINK SYMBOL MUST BE POSTED ON PUMP CABINETS, AND ALL ENCLOSURES.
- 22. RECYCLED WATER SPRINKLERS / SPRAY HEADS MUST HAVE PURPLE CAPS, PURPLE COLLARS, AND THE RISERS HAVE A RECYCLED WATER DECAL. LARGE THROW HEADS MUST HAVE PURPLE INSERTS. PURPLE CAPS AND COLLARS MUST BE FIRMLY AFFIXED TO SPRINKLER HEADS. ALL OTHER ABOVE GROUND EQUIPMENTS MUST BE COLORED PURPLE OR HAVE A "RECYCLED WATER, DO NOT DRINK" DECAL OR SIGN.
- 23. ALL AUTOMATIC CONTROLLERS MUST BE SET TO OPERATE BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. UNLESS OTHERWISE PERMITTED BY EMWD.
- 24. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC.
- IN CASE OF EMERGENCY, CONTACT GREGG WORTHINGTON AT (951) 654-1505 OR AFTER HOURS,

CONTACT GREGG WORTHINGTON AT (951) 306-2965

- 25 AN ON-SITE USER/SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY. WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS CONNECTION PROTECTION, THE RECYCLED PURVEYOR'S RULES AND REGULATIONS, AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM, SAID PERSON IS REQUIRED TO PROVIDE A 24 HOUR CONTACT PHONE NUMBER AND ATTEND APPROVED SITE SUPERVISOR CLASS. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO EASTERN MUNICIPAL WATER DISTRICT.
- AND COULD RESULT IN SUSPENSION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS

LANDSCAPE MAINTENANCE RESPONSIBILITY NOTE

IT SHALL BE THE RESPONSIBILITY OF: VALLEY-WIDE RECREATION AND PARK DISTRICT TO MAINTAIN ALL ON SITE RECYCLED WATER IRRIGATION IN ACCORDANCE WITH EMWD ORDINANCE 68 LATEST EDITION.

EMWD TIME LIMITATION NOTE

THE TIME LIMIT ON DRAWING APPROVAL SHALL BE SIX (6) MONTHS FROM THE DATE OF PLAN APPROVAL. IF CONSTRUCTION HAS NOT COMMENCED WITHIN THE STATED TIME, EMWD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DESIGN ENGINEER AND/OR ARCHITECT AND RESUBMITTED TO EMWD FOR POSSIBLE CHANGES IN MASTER PLANNED FACILITIES, SPECIFICATIONS AND

EMWD STANDARD NOTE

THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EASTERN MUNICIPAL WATER DISTRICT STANDARDS AND SPECIFICATIONS.

- . ALL IRRIGATION RISERS, DRIP LINE, AND COMPONENTS THAT ARE NOT AVAILABLE FROM THE MANUFACTURE WITH PURPLE RECYCLED WATER IDENTIFICATION SHALL BE LABELED WITH RECYCLED WATER DECALS OR STICKERS.
- 2. ALL IRRIGATION COMPONENTS AND VALVES MUST HAVE A RECYCLED WATER ID TAG AND A VALVE ID TAG IN A VALVE BOX WITH A PURPLE LID. THE PURPLE LID SHALL BE HEAT BRANDED WITH THE VALVE
- 3. ROTOR HEADS MAY BE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE

THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE MUST;

1. BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES

2. BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE LOCATED UNDER ALL POTABLE

WATERLINES AND FIRE LINES. 3. WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE

WATERLINE, A 4" (INCH) MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM) WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

IRRIGATION NOTES

- 1. CONTRACTOR SHALL CAREFULLY PERFORM WORK TO INSURE THAT NO SERVICE INTERRUPTION OF DOMESTIC WATER OCCURS DURING OPERATION HOURS. CONTRACTOR SHALL NOTIFY THE DISTRICT 24 HOURS PRIOR TO ANY SCHEDULED SHUTDOWN OF DOMESTIC OR IRRIGATION WATER.
- 2. IRRIGATION WATER SUPPLY SHALL NOT BE TERMINATED FOR ANY PERIOD LONGER THAN 24 HOURS. IN THE EVENT THAT WATER IS TERMINATED LONGER THAN 24 HOURS, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO ANY LANDSCAPE RELATED TO
- 3. CONTRACTOR SHALL DISCONNECT AND CAP ALL EXISTING MAINLINE AT LOCATIONS AS SHOWN ON THE PLANS. ALL FITTINGS (INCLUDING CAPS) 3" AND SMALLER SHALL BE SCH 80 PVC AND ALL FITTINGS LARGER THAN 3" SHALL BE LEEMCO IRON DUCTILE RESTRAINTS.

4. ALL NEW WORK SHALL COMPLY WITH CURRENT DISTRICT STANDARDS AND SPECIFICATIONS

- 5. ALL NEW PRESSURE LINE PIPING SHALL BE PRESSURE TESTED PER EMWD REQUIREMENTS BEFORE CONNECTING TO ANY EXISTING MAINLINE. ANY EXISTING MAINLINE WILL NOT BI CONTRACTOR SHALL SLEEVE ALL EXISTING POTABLE PRESSURE LINE PIPING WITHIN 4 FEET
- OF ANY NEW RECYCLED WATER LINE AS REQUIRED BY EMWD. LOCATIONS OF DOMESTIC WATER PIPING IS SHOWN ON PLANS TO BE THE BEST KNOWLEDGE OF EMWD. IN THE EVENT ANY DISCREPANCY BETWEEN FIELD CONDITIONS AND PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SEPARATIONS SLEEVING AS REQUIRED BY EMWD WITHOUT ADDITIONAL COMPENSATION.
- 7. ALL EXISTING VALVE BOXES THAT ARE UNEVEN, OUT OF PLUMB, ABOVE OR BELOW GRADE SHALL BE ADJUSTED TO GRADE PER DISTRICT DETAILS.
- 8. ALL NEW VALVES AND PIPING SHALL BE MEASURED AND AS-BUILT PER EMWD
- REQUIREMENTS PRIOR TO BACKFILLING. ALL EXISTING PIPING LOCATED DURING CONSTRUCTION SHALL BE IDENTIFIED, MEASURED AND INCLUDED WITH THE AS-BUILTS. 9. ALL NEW PURPLE VALVE BOX LID SHALL BE HEAT BRANDED TO INDICATE THE
- CORRESPONDING CONTROLLER AND STATION NUMBER PER DISTRICT DETAIL.
- 11.CONTRACTOR TO LOCATE AND REDLINE (DOCUMENT) ALL POTABLE AND FIRE WATER LINE
- ON-SITE FACILITIES WITHIN CLOSE PROXIMITY OF NEW RECYCLED WATER LINES.
- STANDARDS, SPECIFICATIONS AND GUIDELINES FOR RECYCLED WATER. 13.IN THE EVENT OF ANY DISCREPANCY BETWEEN PLANS AND EMWD STANDARD GUIDELINES /
- DETERMINED BY THE DISTRICT. 14.CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO ANY DIGGING

SPECIFICATIONS. THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER PLANS AS

- AND SHALL BE RESPONSIBLE FOR ANY DAMAGED UTILITIES. 15.CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING AND OR REPLACING ANY DAMAGE TO EXISTING LANDSCAPE AND IRRIGATION REQUIRED TO RETROFIT PROJECT TO
- RECYCLED WATER. 16.CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIM / HERSELF WITH EXISTING SITE
- CONDITIONS PRIOR TO SUBMITTAL OF BID. 17.IF FIELD CONDITIONS ARE DIFFERENT FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER'S AUTHORIZED REPRESENTATIVE
- PRIOR TO CONTINUING WITH SITE IMPROVEMENTS. 18.ANY COMPONENTS OF THE IRRIGATION SYSTEM WHICH ARE REPLACED / REPAIRED MUST BE REPLACED WITH PURPLE RECYCLED WATER COMPONENTS PER EMWD STANDARDS.
- 19. ALL WORK MUST CONFORM TO VALLEY-WIDE RECREATION AND PARK DISTRICT STANDARDS AND SPECIFICATIONS. IN THE EVENT OF ANY CONFLICT BETWEEN STANDARDS, THE MORE STRINGENT STANDARD SHALL PREVAIL, UNLESS OTHERWISE APPROVED BY BOTH EMWD AND VALLEY-WIDE.

SHEET INDEX

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- **20 IRRIGATION PLAN**
- 21 IRRIGATION DETAILS
- 23 IRRIGATION SPECIFICATIONS

HOLD HARMLESS AND INDEMNIFICATION CLAUSE

CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, THE CSA, COUNTY OF LOCAL JURISDICTION, THE CITY OF WINCHESTER, VALLEY-WIDE RECREATION AND PARK DISTRICT AND EASTERN MUNICIPAL WATER DISTRICT HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE CSA, AND COUNTY OF LOCAL JURISDICTION.

EXISTING POTABLE IRRIGATION DATA TABLE										
EXISTING POTABLE METER	EXISTING P.O.C.	SERVICE ORDER	HISTORICAL	EXISTING POTABLE						
LOCATION	DESIGNATION	(SO) NUMBER	USAGE (AF/Y)	METER SIZE (IN)						
WISTERIA LOOP	28	171016	3.80	1.5						
WISTERIA LOOP	29	201612	2.26	2						
WISTERIA LOOP	31	190818	7.67	2						
		ΤΟΤΔΙ	13 73							



RECYCLED METER INFORMATION TABLE

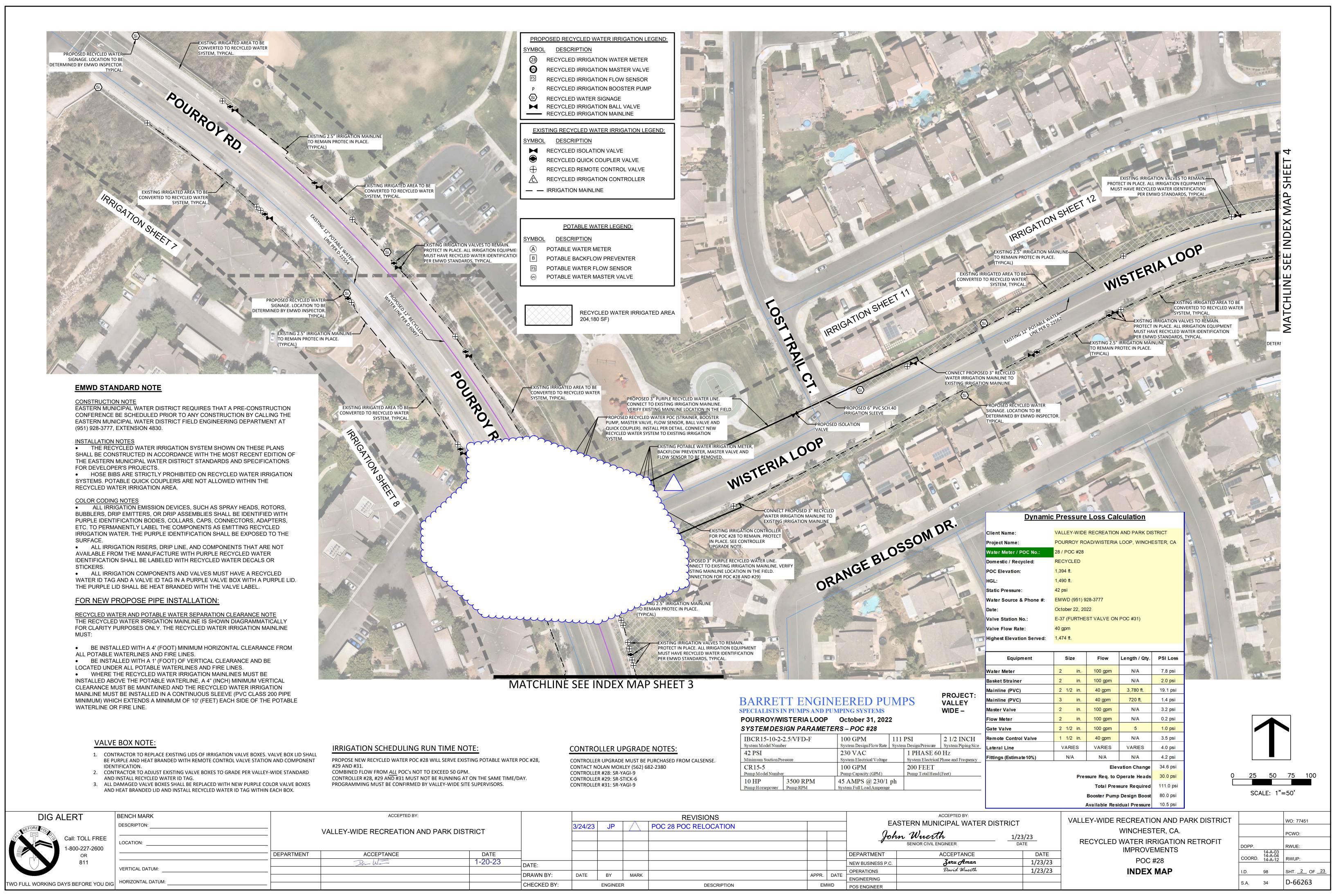
POC ID	POC STA.	DWG#	IRRIGATED AREA (SF)	DEMAND (GPM)	ANNUAL USAGE ACRE FEET	LATERAL SIZE (IN.)	METER SIZE (IN.)
POC #28	81+89.00	D-60497	204,180	120	13.73	4"	2"
		TOTAL	204,180	120	13.73		

DIG ALERT							
BEFORE POUTO O	Call: TOLL FREE 1-800-227-2600 OR 811						
TWO FULL WORKING DAYS BEFORE YOU DIG							

LOCATION: DEPARTMENT ACCEPTANCE									
DEPARTMENT ACCEPTANCE	VALLEY-WIDE RECREATION AND PARK DISTRICT								
	ATE								
VERTICAL DATUM:	0-23								
HORIZONTAL DATUM:									

	REVISIONS							ACCEPTED BY:						
	3/24/23 JP POC 28 POC RELOCATION (PAGES 2 & 8)				POC 28 POC RELOCATION (PAGES 2 & 8) EASTERN MUNICIPAL WA						'			
								Dately speed by DN Galls, Euro Proport I am app Date (2004) 113	, John Weeth arthylogened.org, OsEMVD, OUsEngineering, CNsJohn Weeth October His document. 1775;824-4409.	1/23/23				
								SENIOR CIVIL ENGIN	IEER	DATE				
							DEPARTMENT	AC	CEPTANCE	DATE				
 ГЕ:							NEW BUSINESS P.C.	3-1-	Digitally signed by Zeru Aman	1/23/23				
	DATE	D) (MARK		4500		OPERATIONS	Dawy Winds	Digitally signed by David Wuerth DN: C=US, E=wuerthd@emwd.org, CN=David Wuerth Date: 2023.02.02 09:12:27-08'00'	1/23/23				
AWN BY:	DATE	BY	MARK		APPR.	DATE	ENGINEERING							
ECKED BY:	ENGINEER DESCRIPTION				EN	MWD	POS ENGINEER							

LLEY-WIDE RECREATION AND PARK DISTRICT			WO: 77451
WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP.		RWUE:
POC #28	COORD.	14-A-03 14-A-04 14-A-12	RWUP:
COVER SHEET	I.D.	98	SHT. <u>1</u> (
	SA	34	D-66262



PROPOSED RECYCLED WATER IRRIGATION LEGEND:

SYMBOL DESCRIPTION

RECYCLED IRRIGATION WATER METER
RECYCLED IRRIGATION MASTER VALVE
RECYCLED IRRIGATION FLOW SENSOR
PRECYCLED IRRIGATION BOOSTER PUMP

RECYCLED WATER SIGNAGE
RECYCLED IRRIGATION BALL VALVE
RECYCLED IRRIGATION MAINLINE

EXISTING RECYCLED WATER IRRIGATION LEGEND:

SYMBOL <u>DESCRIPTION</u>

MRECYCLED ISOLATION VALVE

RECYCLED QUICK COUPLER VALVE

RECYCLED REMOTE CONTROL VALVE

RECYCLED IRRIGATION CONTROLLER

— — IRRIGATION MAINLINE

POTABLE WATER LEGEND:

SYMBOL DESCRIPTION

A POTABLE WATER METER

B POTABLE BACKFLOW PREVENTER

FS POTABLE WATER FLOW SENSOR

POTABLE WATER MASTER VALVE



RECYCLED WATER IRRIGATED AREA 204,180 SF)

EMWD STANDARD NOTE

CONSTRUCTION NOT

EASTERN MUNICIPAL WATER DISTRICT REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EASTERN MUNICIPAL WATER DISTRICT FIELD ENGINEERING DEPARTMENT AT (951) 928-3777, EXTENSION 4830.

INSTALLATION NOTE

THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS
SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF
THE EASTERN MUNICIPAL WATER DISTRICT STANDARDS AND SPECIFICATIONS
FOR DEVELOPER'S PROJECTS.

HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER IRRIGATION SYSTEMS. POTABLE QUICK COUPLERS ARE NOT ALLOWED WITHIN THE RECYCLED WATER IRRIGATION AREA.

COLOR CODING NOTE

• ALL IRRIGATION EMISSION DEVICES, SUCH AS SPRAY HEADS, ROTORS, BUBBLERS, DRIP EMITTERS, OR DRIP ASSEMBLIES SHALL BE IDENTIFIED WITH PURPLE IDENTIFICATION BODIES, COLLARS, CAPS, CONNECTORS, ADAPTERS, ETC. TO PERMANENTLY LABEL THE COMPONENTS AS EMITTING RECYCLED IRRIGATION WATER. THE PURPLE IDENTIFICATION SHALL BE EXPOSED TO THE SURFACE.

ALL IRRIGATION RISERS, DRIP LINE, AND COMPONENTS THAT ARE NOT AVAILABLE FROM THE MANUFACTURE WITH PURPLE RECYCLED WATER IDENTIFICATION SHALL BE LABELED WITH RECYCLED WATER DECALS OR

• ALL IRRIGATION COMPONENTS AND VALVES MUST HAVE A RECYCLED WATER ID TAG AND A VALVE ID TAG IN A PURPLE VALVE BOX WITH A PURPLE LID. THE PURPLE LID SHALL BE HEAT BRANDED WITH THE VALVE LABEL.

FOR NEW PROPOSE PIPE INSTALLATION:

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE
THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY
FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE
MUST:

BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES AND FIRE LINES.

BE INSTALLED WITH A 4' (FOOT) OF VERTICAL CLEARANCE AND BE

• BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE LOCATED UNDER ALL POTABLE WATERLINES AND FIRE LINES.

• WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A 4" (INCH) MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM) WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

MATCHLINE SEE INDEX MAP SHEET 2



VALVE BOX NOTE:

- 1. CONTRACTOR TO REPLACE EXISTING LIDS OF IRRIGATION VALVE BOXES. VALVE BOX LID SHALL BE PURPLE AND HEAT BRANDED WITH REMOTE CONTROL VALVE STATION AND COMPONENT IDENTIFICATION.
- CONTRACTOR TO ADJUST EXISTING VALVE BOXES TO GRADE PER VALLEY-WIDE STANDARD AND INSTALL RECYCLED WATER ID TAG.
 ALL DAMAGED VALVE BOXES SHALL BE REPLACED WITH NEW PURPLE COLOR VALVE BOXES AND HEAT BRANDED LID AND INSTALL RECYCLED WATER ID TAG WITHIN EACH BOX.

IRRIGATION SCHEDULING RUN TIME NOTE:

PROPOSE NEW RECYCLED WATER POC #28 WILL SERVE EXISTING POTABLE WATER POC #28, #29 AND #31.
COMBINED FLOW FROM *ALL* POC's NOT TO EXCEED 50 GPM.

___ DATE:

DRAWN BY:

CHECKED BY:

CONTROLLER #28, #29 AND #31 MUST NOT BE RUNNING AT ON THE SAME TIME/DAY.

PROGRAMMING MUST BE CONFIRMED BY VALLEY-WIDE SITE SUPERVISORS.

CONTROLLER UPGRADE NOTES:

CONTROLLER UPGRADE MUST BE PURCHASED FROM CALSENSE.

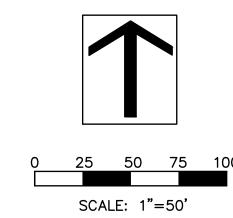
REVISIONS

DESCRIPTION

CONTACT NOLAN MOXLEY (562) 682-2380 CONTROLLER #28: SR-YAGI-9

CONTROLLER #29: SR-STICK-6 CONTROLLER #31: SR-YAGI-9

BY



DIG A	LERT
BEFORE POUR DE	Call: TOLL FREE 1-800-227-2600 OR 811
TWO FULL WORKING D	AYS BEFORE YOU DIG

	BENCH MARK		ACCEPTED BY:						
	DESCRIPTON: LOCATION:	VALLEY-WIDE RECREATION AND PARK DISTRICT							
		DEPARTMENT	ACCEPTANCE	DATE					
			Dan Win	1-20-23					
	VERTICAL DATUM:								
	HORIZONTAL DATUM:								
IG									

ACCEPTED BY: EASTERN MUNICIPAL WATER DISTRICT John Wuerth 1/23/23 SENIOR CIVIL ENGINEER DEPARTMENT **ACCEPTANCE** DATE Zeru Aman 1/23/23 NEW BUSINESS P.C David Wnerth OPERATIONS 1/23/23 **ENGINEERING** POS ENGINEER

 VALLEY-WIDE RECREATION AND PARK DISTRICT
 WO: 77451

 WINCHESTER, CA.
 PCWO:

 RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS
 DOPP.
 RWUE:

 POC #28
 14-A-03 (COORD. 14-A-04 (14-A-02) (14-A-04) (14-A-02) (14-A

PROPOSED RECYCLED WATER IRRIGATION LEGEND: SYMBOL DESCRIPTION 28 RECYCLED IRRIGATION WATER METER RECYCLED IRRIGATION MASTER VALVE FS RECYCLED IRRIGATION FLOW SENSOR RECYCLED IRRIGATION BOOSTER PUMP Si RECYCLED WATER SIGNAGE RECYCLED IRRIGATION BALL VALVE RECYCLED IRRIGATION MAINLINE

EXISTING RECYCLED WATER IRRIGATION LEGEND: SYMBOL DESCRIPTION

RECYCLED ISOLATION VALVE RECYCLED QUICK COUPLER VALVE

RECYCLED REMOTE CONTROL VALVE RECYCLED IRRIGATION CONTROLLER

— IRRIGATION MAINLINE

POTABLE WATER LEGEND:

SYMBOL DESCRIPTION

A POTABLE WATER METER

B POTABLE BACKFLOW PREVENTER

FS POTABLE WATER FLOW SENSOR

POTABLE WATER MASTER VALVE



RECYCLED WATER IRRIGATED AREA 204,180 SF)

EMWD STANDARD NOTE

EASTERN MUNICIPAL WATER DISTRICT REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EASTERN MUNICIPAL WATER DISTRICT FIELD ENGINEERING DEPARTMENT AT (951) 928-3777, EXTENSION 4830.

• THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EASTERN MUNICIPAL WATER DISTRICT STANDARDS AND SPECIFICATIONS FOR DEVELOPER'S PROJECTS.

 HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER IRRIGATION SYSTEMS. POTABLE QUICK COUPLERS ARE NOT ALLOWED WITHIN THE RECYCLED WATER IRRIGATION AREA.

• ALL IRRIGATION EMISSION DEVICES, SUCH AS SPRAY HEADS, ROTORS, BUBBLERS, DRIP EMITTERS, OR DRIP ASSEMBLIES SHALL BE IDENTIFIED WITH PURPLE IDENTIFICATION BODIES, COLLARS, CAPS, CONNECTORS, ADAPTERS, ETC. TO PERMANENTLY LABEL THE COMPONENTS AS EMITTING RECYCLED IRRIGATION WATER. THE PURPLE IDENTIFICATION SHALL BE EXPOSED TO THE

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FOR NEW PROPOSE PIPE INSTALLATION:

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE
THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE

 BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES AND FIRE LINES.

 BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE LOCATED UNDER ALL POTABLE WATERLINES AND FIRE LINES.

 WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A 4" (INCH) MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM) WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

CONTROLLER UPGRADE NOTES:

BY

DRAWN BY:

CONTROLLER UPGRADE MUST BE PURCHASED FROM CALSENSE.

CONVERTED TO RECYCLED WATER

PROTECT IN PLACE. ALL IRRIGATION EQUIPMENT MUST HAVE RECYCLED WATER IDENTIFICATION

EXISTING 12" POTABLE WATER
LINE PER D-22562

SIGNAGE. LOCATION TO BE

TERMINED BY EMWD INSPECTOR.

TO REMAIN PROTEC IN PLACE.

TO REMAIN PROTEC IN PLACE.

PROTECT IN PLACE. ALL IRRIGATION EQUIPMENT MUST HAVE RECYCLED WATER IDENTIFICATION

FOR POC #29 TO REMAIN. PROTECT

CONVERTED TO RECYCLED WATER

EXISTING 2.5" IRRIGATION MAINL TO REMAIN PROTEC IN PLACE.

PROTECT IN PLACE. ALL IRRIGATION EQUIPMENT

MUST HAVE RECYCLED WATER IDENTIFICATION

PER EMWD STANDARDS, TYPICAL.

(TYPICAL)

ANG

OM

IN PLACE. SEE CONTROLLER

IRRIGATION WATER LINE. PROVIDE 4 FT.

CONTACT NOLAN MOXLEY (562) 682-2380

REVISIONS

DESCRIPTION

CONTROLLER #28: SR-YAGI-9

CONTROLLER #29: SR-STICK-6 CONTROLLER #31: SR-YAGI-9



EXISTING IRRIGATED AREA TO BE ONVERTED TO RECYCLED WATER

TO REMAIN PROTEC IN PLACE.

SIGNAGE. LOCATION TO BE

DETERMINED BY EMWD INSPECTOR.

VALVE BOX NOTE:

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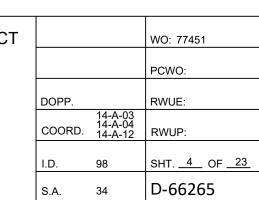
DIG ALERT Call: TOLL FREE 1-800-227-2600

BENCH MARK ACCEPTED BY: DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DATE DEPARTMENT ACCEPTANCE 1-20-23 Den Win VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM: CHECKED BY:

ACCEPTED BY: EASTERN MUNICIPAL WATER DISTRICT John Wuerth 1/23/23 SENIOR CIVIL ENGINEER DEPARTMENT ACCEPTANCE DATE Zeru Aman 1/23/23 **NEW BUSINESS P.C** David Wuerth OPERATIONS 1/23/23 **ENGINEERING** POS ENGINEER

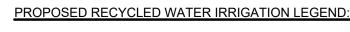
BACKFLOW PREVENTER, MASTER VALVE AND

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS** POC #28 **INDEX MAP**



SCALE: 1"=50'

LDC-PC3-APP (01-13-23)



SYMBOL DESCRIPTION

(28) RECYCLED IRRIGATION WATER METER

RECYCLED IRRIGATION MASTER VALVE

RECYCLED IRRIGATION FLOW SENSOR

RECYCLED IRRIGATION BOOSTER PUMP

RECYCLED WATER SIGNAGE

RECYCLED IRRIGATION MAINLINE

RECYCLED IRRIGATION BALL VALVE

EXISTING RECYCLED WATER IRRIGATION LEGEND:

SYMBOL DESCRIPTION

RECYCLED ISOLATION VALVE

RECYCLED QUICK COUPLER VALVE

RECYCLED REMOTE CONTROL VALVE

RECYCLED IRRIGATION CONTROLLER

— IRRIGATION MAINLINE

POTABLE WATER LEGEND:

SYMBOL DESCRIPTION

A POTABLE WATER METER

POTABLE BACKFLOW PREVENTER

POTABLE WATER FLOW SENSOR

POTABLE WATER MASTER VALVE



RECYCLED WATER IRRIGATED AREA

EMWD STANDARD NOTE

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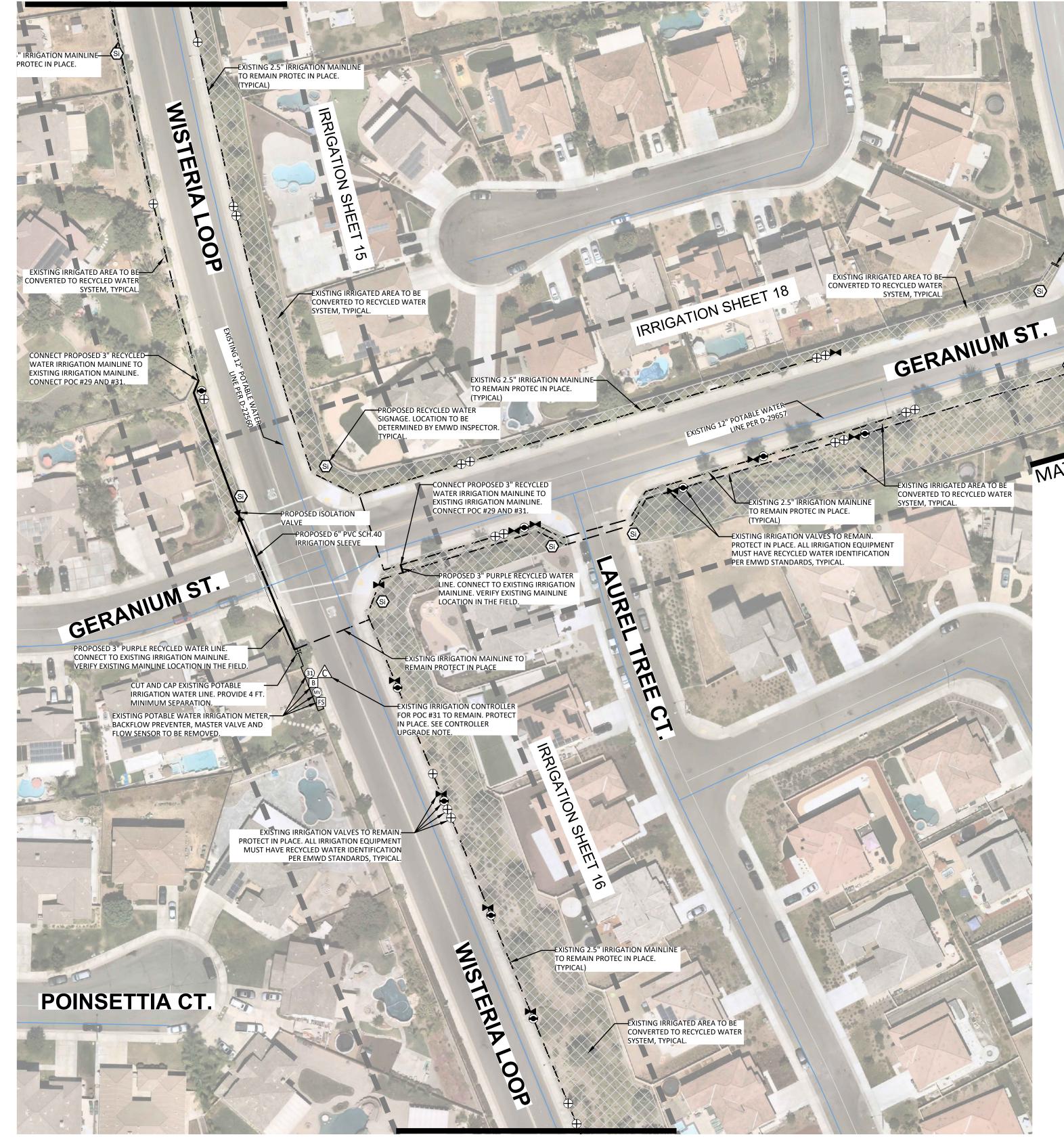
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MATCHLINE SEE INDEX MAP SHEET 4





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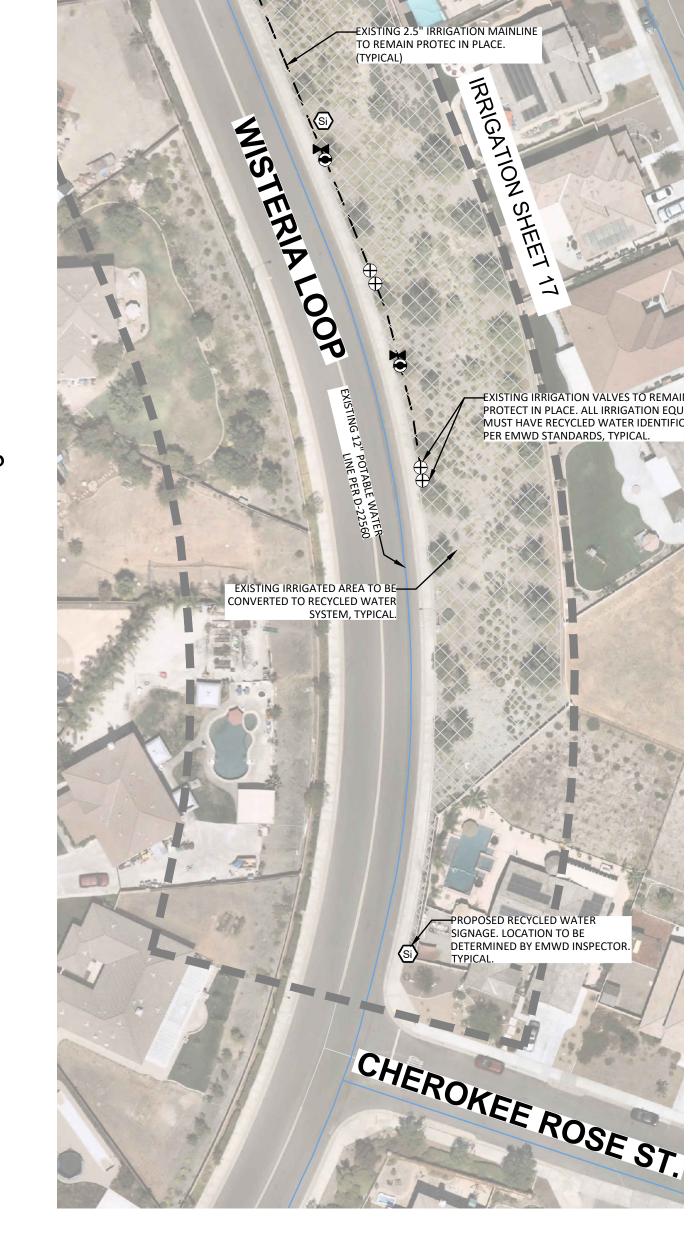
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CONTROLLER #28: SR-YAGI-9

CONTROLLER #29: SR-STICK-6 CONTROLLER #31: SR-YAGI-9



MATCHLINE SEE BELOW LEFT

PROVIDE AND INSTALL 6" WIDE

CONCRETE MOWCURB

25 50 75 100 SCALE: 1"=50'

WO: 77451

PCWO:

RWUE:

DIG ALERT Call: TOLL FREE 1-800-227-2600

ACCEPTED BY: BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT ACCEPTANCE DATE 1-20-23 De Win VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT John Wuerth 1/23/23 SENIOR CIVIL ENGINEER DEPARTMENT **ACCEPTANCE** DATE Zeru Aman 1/23/23 NEW BUSINESS P.O David Wuerth OPERATIONS 1/23/23 DRAWN BY: BY **ENGINEERING** CHECKED BY: POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS** COORD. 14-A-03 14-A-04 14-A-12 POC #28 **INDEX MAP** D-66266 PROPOSED RECYCLED WATER IRRIGATION LEGEND:

SYMBOL DESCRIPTION

(28) RECYCLED IRRIGATION WATER METER

RECYCLED IRRIGATION MASTER VALVE

RECYCLED IRRIGATION FLOW SENSOR

RECYCLED IRRIGATION BOOSTER PUMP

RECYCLED WATER SIGNAGE

RECYCLED IRRIGATION BALL VALVE RECYCLED IRRIGATION MAINLINE

EXISTING RECYCLED WATER IRRIGATION LEGEND:

SYMBOL DESCRIPTION

RECYCLED ISOLATION VALVE

RECYCLED QUICK COUPLER VALVE

RECYCLED REMOTE CONTROL VALVE

RECYCLED IRRIGATION CONTROLLER

— IRRIGATION MAINLINE

POTABLE WATER LEGEND:

SYMBOL DESCRIPTION

(A) POTABLE WATER METER

POTABLE BACKFLOW PREVENTER

FS POTABLE WATER FLOW SENSOR

M POTABLE WATER MASTER VALVE



RECYCLED WATER IRRIGATED AREA 204,180 SF)

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WATERLINE OR FIRE LINE.

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ACCEPTANCE

Dan Win

ACCEPTED BY:

IRRIGATION SCHEDULING RUN TIME NOTE: PROPOSE NEW RECYCLED WATER POC #28 WILL SERVE EXISTING POTABLE WATER POC #28, #29 AND #31.

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MATCHLINE SEE INDEX MAP SHEET 5

CONVERTED TO RECYCLED WATER

OAKSTONE

EXISTING 2.5" IRRIGATION MAINLINE TO REMAIN PROTEC IN PLACE.

PROTECT IN PLACE. ALL IRRIGATION EQUIPMENT

MUST HAVE RECYCLED WATER IDENTIFICATION

PER EMWD STANDARDS, TYPICAL.

CONTROLLER UPGRADE NOTES:

CONVERTED TO RECYCLED WATER

PROPOSED RECYCLED WATER

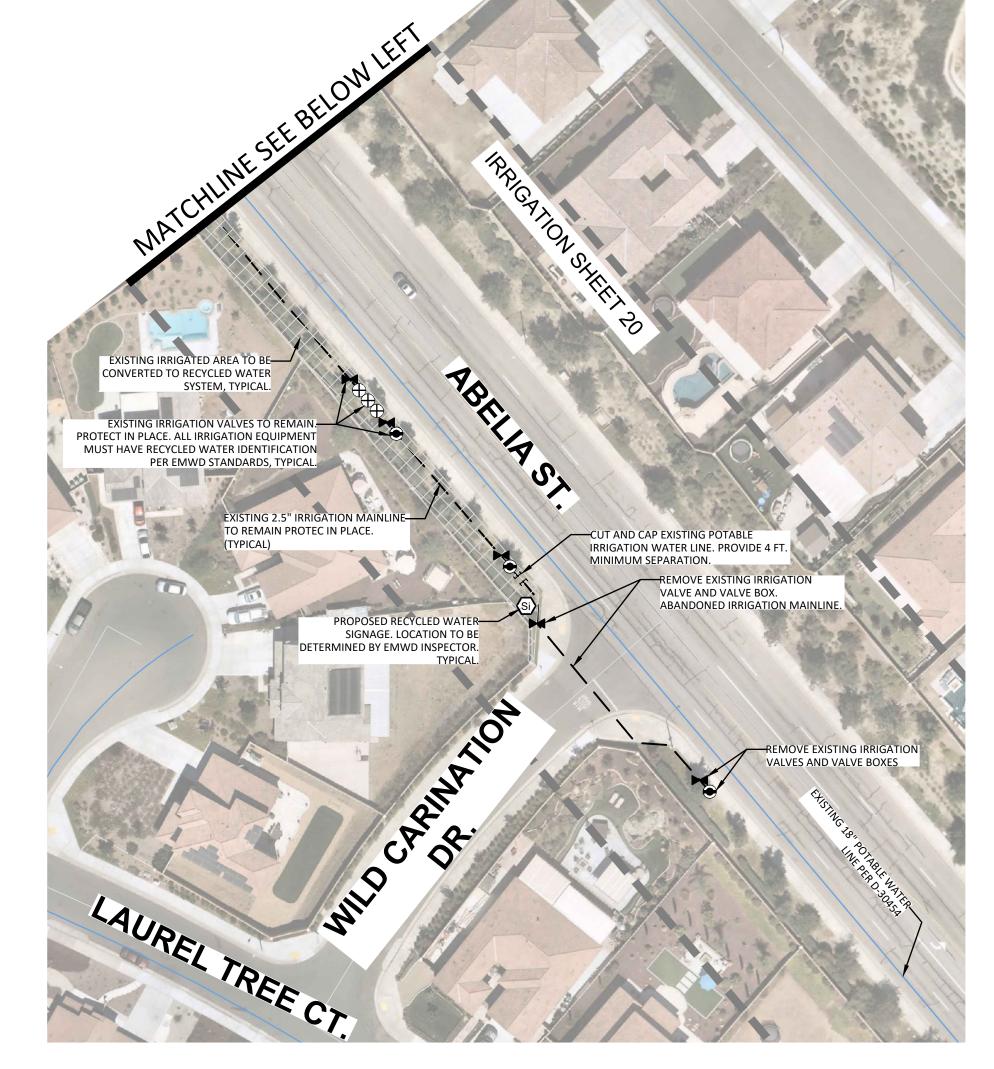
DETERMINED BY EMWD INSPECTOR.

SIGNAGE. LOCATION TO BE

CONTROLLER UPGRADE MUST BE PURCHASED FROM CALSENSE.

CONTACT NOLAN MOXLEY (562) 682-2380

CONTROLLER #28: SR-YAGI-9 CONTROLLER #29: SR-STICK-6 CONTROLLER #31: SR-YAGI-9



VALVE BOX NOTE:

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DEPARTMENT

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BENCH MARK DESCRIPTON: Call: TOLL FREE LOCATION:

REVISIONS VALLEY-WIDE RECREATION AND PARK DISTRICT DATE 1-20-23 DRAWN BY: BY CHECKED BY: DESCRIPTION

ACCEPTED BY: EASTERN MUNICIPAL WATER DISTRICT John Wuerth 1/23/23 SENIOR CIVIL ENGINEER DEPARTMENT **ACCEPTANCE** DATE Zeru Aman 1/23/23 NEW BUSINESS P.C David Wuerth OPERATIONS 1/23/23 **ENGINEERING** POS ENGINEER

SCALE: 1"=50' VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS**

POC #28

INDEX MAP

PCWO: RWUE: 14-A-03 14-A-04 14-A-12 D-66267

WO: 77451

VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

1-800-227-2600

DIG ALERT

LDC-PC3-APP (01-13-23)



MATCHLINE SEE SHEET 8

IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD

REPRESENTATIVE. EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

COLOR CODING

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

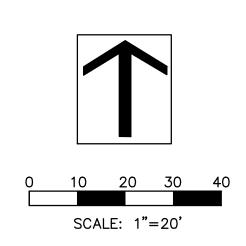
POTABLE AND RECYCLED WATER SEPARATION NOTE

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



CONSTRUCTION LEGEND

VALVE BOX.

INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD

PROVIDE AND INSTALL YARDNEY STRAINER MCS2-1. SIZE: 2" WITH

MAX. FLOW 110 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL. PROVIDE AND INSTALL BUCKNER SUPERIOR 3300 NORMALLY OPEN MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO

PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING

PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE

PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC

SCH.40 CONDUIT. INSTALL PULL BOX AT ENY CHANGE IN DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.

EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.

REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING

REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH

EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED

EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP

TO EXISTING CONTROLLER. ADJUST EXISTING CONTROLLER FOR

PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL

CONNECT PROPOSE NEW MASTER VALVE AND FLOW SENSOR WIRES

PROVIDE AND INSTALL NIBCO T-113 GATE VALVE (MAINLINE SIZE). TO

INSTALL 6" PVC PURPLE CLASS 200 SLEEVE. SLEEVE MUST BE BURIED MINIMUM OF 36" FROM FINISH GRADE OR PER THE COUNTY STANDARD. REMOVE EXISTING MASTER VALVE, FLOW SENSOR AND ISOLATION VALVE.

PROVIDE AND INSTALL ELECTRICAL POWER CONNECTION FROM NEARBY

POWER SOURCE TO NEW PROPOSED IRRIGATION BOOSTER PUMP. ELECTRICAL WIRING INSTALLATION TO BE PER COUNTY AND NEC

PROVIDE AND INSTALL 6" WIDE CONCRETE MOWCURB

REMOVE EXISTING VALVE AND VALVE BOX.

COVER - INSTALL NEW PURPLE VALVE BOX PER DETAIL

PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.

EXISTING LINE. REMOVE ALL UNUSED PIPE.

HIGH-FLOW SHUT-OFF SETTING.

BE INSTALLED PER DETAIL.

CUT AND CAP MAINLINE.

STANDARD CODE.

4FT. SEPARATION AND REMOVE UNUSED PIPE.

PROVIDE AND INSTALL 3" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING

PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD.

CUT AND CAP EXISTING IRRIGATION MAINLINE-PROVIDE A MINIMUM OF

PB-10. WATER METER WILL BE PROVIDED BY EMWD.

PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE

LOCKING COVER - INSTALL PER DETAIL

EXISTING IRRIGATION CONTROLLÉR LOCATION.

IRRIGATION CONTROLLER LOCATION.

IRRIGATION POC AS SHOWN ON PLAN.

SYMBOL DESCRIPTION

DIG ALERT	BENCH MARK	ACCEPTED BY:				REVISIONS				FASTI	ACCEPTED BY: ERN MUNICIPAL WATER D	ISTRICT	VALLEY-WIDE RECREATION AND PARK DISTRICT
CALL BEFORE POUT OF CAIL: TOL	LOCATION:		VALLEY-WIDE RECREATION AND F	PARK DISTRICT						John	Wweth SENIOR CIVIL ENGINEER	1/23/23 DATE	WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT
1-800-22 ²	7-2600	DEPARTMENT	ACCEPTANCE	DATE						DEPARTMENT	ACCEPTANCE	DATE	IMPROVEMENTS
811	1 VERTICAL DATUM:		Du Vin	1-20-23	DATE:					NEW BUSINESS P.C.	Zeru Aman David Wueth	1/23/23	POC #28
					DRAWN BY:	DATE	BY MARK		APPR. DATE	OPERATIONS ENGINEERING	Darra Wuerin	1/23/23	IRRIGATION PLAN
TWO FULL WORKING DAYS BEFOR	RE YOU DIG HORIZONTAL DATUM:				CHECKED BY:	EN	NGINEER	DESCRIPTION	EMWD	POS ENGINEER			

WO: 77451



IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD REPRESENTATIVE.

REPRESENTATIVE.
EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

COLOR CODING

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

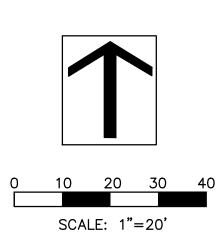
ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

POTABLE AND RECYCLED WATER SEPARATION NOTE

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.



DIG ALERT	BENCH MARK DESCRIPTON:	ACCEPTED BY:			0/04/00	REVISIONS		FASTFI	ACCEPTED BY: RN MUNICIPAL WATER DIS	STRICT	VALLEY-WIDE RECREATION AND PARK DISTRICT	-	WO: 77451
BEFORE POUR	DESCRIPTON.	VALLEY-WIDE RECREATION AND F	PARK DISTRICT		3/24/23 JP	POC 28 POC RELOCATION			Wnerth	1/23/23	WINCHESTER, CA.		PCWO:
1-800-2	LOCATION:								NIOR CIVIL ENGINEER	DATE	RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP.	RWUE:
	DR	DEPARTMENT ACCEPTANCE	DATE					DEPARTMENT	ACCEPTANCE	DATE		14-A-03 14-A-04	B DWID:
8	11	Dan Win	1-20-23	DATE:				NEW BUSINESS P.C.	Zeru Aman	1/23/23	POC #28	14-A-12	NWOP.
	VERTICAL DATUM:			DRAWN BY:	DATE BV	MARK	APPRIDAT	OPERATIONS	David Wnerth	1/23/23	IRRIGATION PLAN	I.D. 98	SHT. <u>8</u> OF <u>23</u>
TWO FULL WORKING DAYS BEFO	ORE YOU DIG HORIZONTAL DATUM:		<u> </u>	CHECKED BY:	ENGINEE	R DESCRIPTION	EMWD	ENGINEERING POS ENGINEER				S.A. 34	D-66269

MATCHLINE SEE SHEET 8 MAINLINE TO REMAIN. PROTECT IN PLACE. RD EXISTING IRRIGATED AREA TO— BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. **EXISTING IRRIGATED AREA TO** BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. VIA SANTA CATALINA

MATCHLINE SEE TOP RIGHT

IRRIGATION DRAWING NOTE:

REPRESENTATIVE.

REQUIREMENTS.

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POTABLE AND RECYCLED WATER SEPARATION NOTE

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

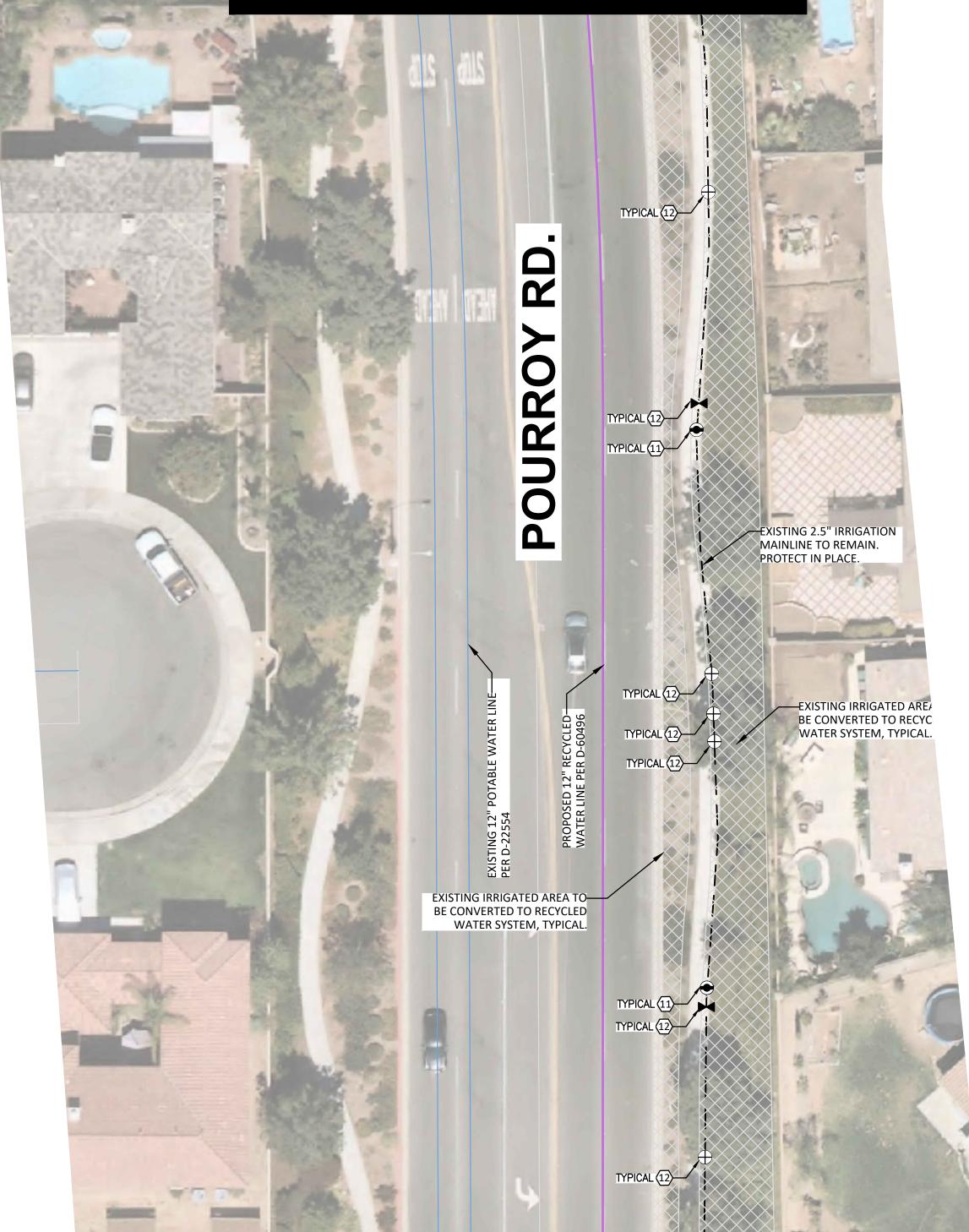
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NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.

SCALE: 1"=20'

DIG ALER	Τ	BENCH MARK		ACCEPTED BY:				F	REVISIONS			ACCEPTED BY: ASTERN MUNICIPAL WATER D	CTDICT	VALLEY-WIDE RECREATION AND PARK DISTRICT		WO: 77451
BEFORE YOU		DESCRIPTON:	-	VALLEY-WIDE RECREATION AND PARK	DISTRICT									WINCHESTER, CA.		PCWO:
Call: 1	OLL FREE	LOCATION:	_								- Jol	hn Wweth SENIOR CIVIL ENGINEER		RECYCLED WATER IRRIGATION RETROFIT		FGWO.
1-800-	-227-2600		DEPARTMENT	ACCEPTANCE	DATE						DEPARTMENT	ACCEPTANCE	DATE	- IMPROVEMENTS	DOPP. 14-A-03	RWUE:
	811		-	Dar Win	1-20-23	DATE:					NEW BUSINESS P.C.	Zeru Aman	1/23/23	POC #28	COORD. 14-A-04 14-A-12	RWUP:
		VERTICAL DATUM:	_			DRAWN BY:	DATE BY	MARK		APPR. DATE	OPERATIONS	David Wnerth	1/23/23	IRRIGATION PLAN	I.D. 98	SHT. 9 OF 23
TWO FULL WORKING DAYS BE	FORE YOU DIG	HORIZONTAL DATUM:	_			CHECKED BY:	ENGINEE	ER ER	DESCRIPTION	EMWD	POS ENGINEER POS ENGINEER				S.A. 34	D-66270

MATCHLINE SEE BELOW LEFT



MATCHLINE SEE SHEET 10

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD.

PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL PER DETAIL

PROVIDE AND INSTALL YARDNEY STRAINER MCS2-1. SIZE: 2" WITH MAX. FLOW 110 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.

PROVIDE AND INSTALL BUCKNER SUPERIOR 3300 NORMALLY OPEN MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLÉR LOCATION.

PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE VALVE BOX.

PROVIDE AND INSTALL 3" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.

PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC SCH.40 CONDUIT. INSTALL PULL BOX AT ENY CHANGE IN DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.

PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.

CUT AND CAP EXISTING IRRIGATION MAINLINE-PROVIDE A MINIMUM OF 4FT. SEPARATION AND REMOVE UNUSED PIPE.

REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER — INSTALL NEW PURPLE VALVE BOX PER DETAIL

REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH

PURPLE RECYCLED WATER AND LABEL ACCORDINGLY. EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED

(BY OTHERS) EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.

CONNECT PROPOSE NEW MASTER VALVE AND FLOW SENSOR WIRES TO EXISTING CONTROLLER. ADJUST EXISTING CONTROLLER FOR HIGH-FLOW SHUT-OFF SETTING.

PROVIDE AND INSTALL NIBCO T-113 GATE VALVE (MAINLINE SIZE). TO BE INSTALLED PER DETAIL.

INSTALL 6" PVC PURPLE CLASS 200 SLEEVE. SLEEVE MUST BE BURIED MINIMUM OF 36" FROM FINISH GRADE OR PER THE COUNTY STANDARD.

REMOVE EXISTING MASTER VALVE, FLOW SENSOR AND ISOLATION VALVE. CUT AND CAP MAINLINE.

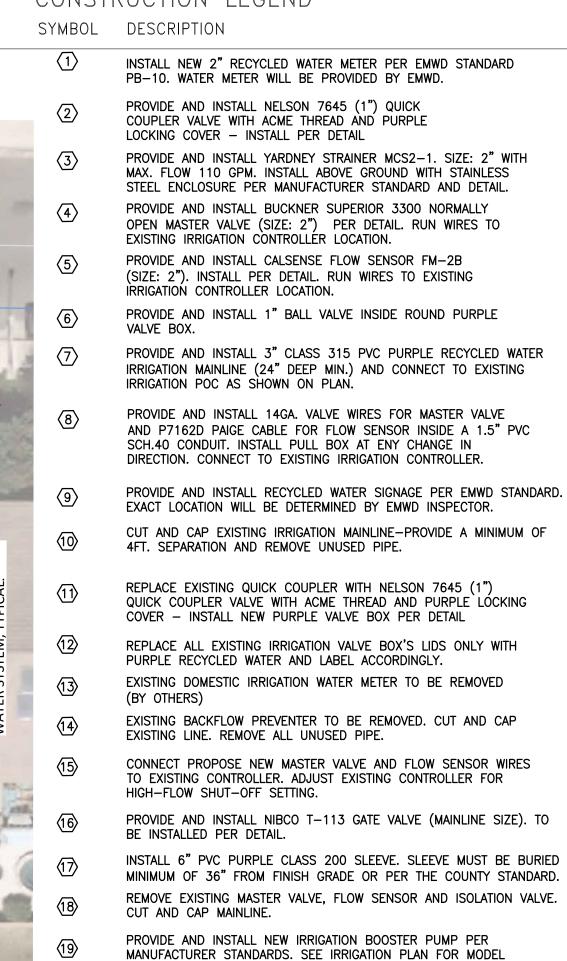
PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL

PROVIDE AND INSTALL ELECTRICAL POWER CONNECTION FROM NEARBY POWER SOURCE TO NEW PROPOSED IRRIGATION BOOSTER PUMP. ELECTRICAL WIRING INSTALLATION TO BE PER COUNTY AND NEC STANDARD CODE.

PROVIDE AND INSTALL 6" WIDE CONCRETE MOWCURB

REMOVE EXISTING VALVE AND VALVE BOX.

CONSTRUCTION LEGEND



PROVIDE AND INSTALL ELECTRICAL POWER CONNECTION FROM NEARBY

POWER SOURCE TO NEW PROPOSED IRRIGATION BOOSTER PUMP. ELECTRICAL WIRING INSTALLATION TO BE PER COUNTY AND NEC

PROVIDE AND INSTALL 6" WIDE CONCRETE MOWCURB

REMOVE EXISTING VALVE AND VALVE BOX.

STANDARD CODE.

PRIMROSE ST.

EXISTING 2.5" IRRIGATION MAINLINE TO REMAIN.

PROTECT IN PLACE.

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED

SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF

INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC.

VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING

"RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK"

ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS

AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT

PER D-22638

EXISTING 12" POTABLE WATER LINE—

POTABLE AND RECYCLED WATER SEPARATION NOTE

DATE

BY

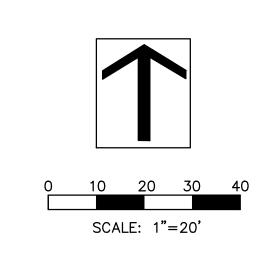
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INSTALLATION NOTES

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ROSEMARY ST.

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



DIG ALERT							
Call: TOLL FREE 1-800-227-2600 OR 811							
TWO FULL WORKING DAYS BEFORE YOU DIG							

IRRIGATION DRAWING NOTE:

REPRESENTATIVE.

REQUIREMENTS.

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TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND

MATCHLINE SEE SHEET 9

ENCH MARK		ACCEPTED BY:								
DESCRIPTON:										
		VALLEY-WIDE RECREATION AND PARK DISTRICT								
LOCATION:										
	DEDARTMENT	ACCEPTANCE	I DATE	_						
	DEPARTMENT	ACCEPTANCE	DATE							
VERTICAL DATUM:		Dan Win	1-20-23	DATE:						
				DRAWN BY:						
HORIZONTAL DATUM:				CHECKED BY:						

COLOR CODING

SHALL HAVE PURPLE CAPS.

HEAD TO EMWD FOR APPROVAL.

EXISTING IRRIGATED AREA TO

WATER SYSTEM, TYPICAL.

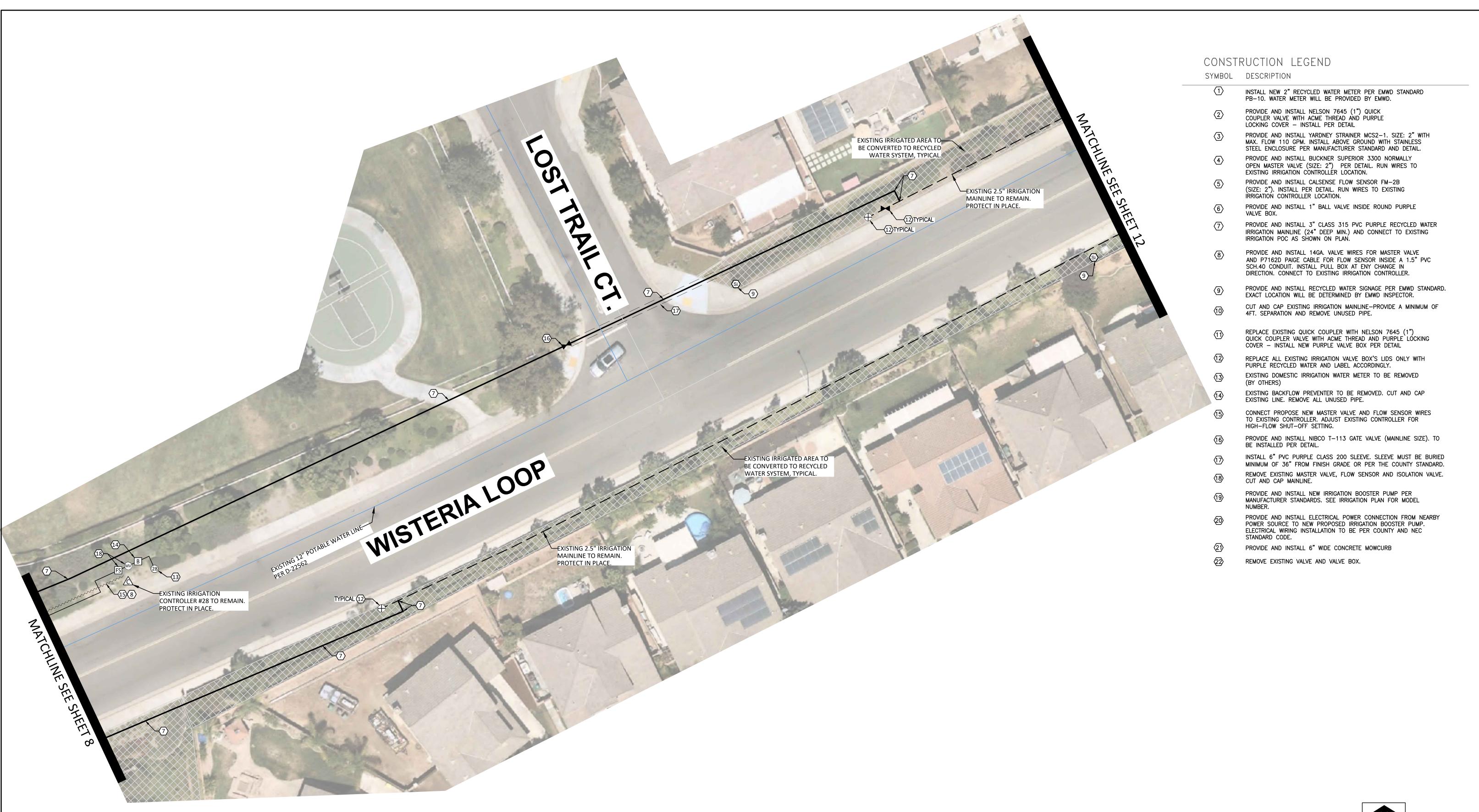
BE CONVERTED TO RECYCLED

ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT John Wuerth 1/23/23 SENIOR CIVIL ENGINEER DEPARTMENT ACCEPTANCE DATE Zeru Aman 1/23/23 **NEW BUSINESS P.C** David Wnerth **OPERATIONS** 1/23/23 MARK **ENGINEERING ENGINEER** DESCRIPTION POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DIST WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROF **IMPROVEMENTS** POC #28

IRRIGATION PLAN

FDIOT			
ΓRICT			WO: 77451
			PCWO:
-IT			
	DOPP.		RWUE:
		14-A-03 14-A-04	
	COORD.	14-A-12	RWUP:
	I.D.	98	SHT. <u>10</u> OF <u>23</u>
			D CC274
	S.A.	34	D-66271



IRRIGATION DRAWING NOTE:

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COLOR CODING

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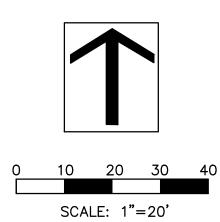
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INSTALLATION NOTES

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DIG ALERT	BENCH MARK		ACCEPTED BY:					R	EVISIONS			FACTEDALA	ACCEPTED BY:	IOTDIOT	VALLEY-WIDE RECREATION AND PARK DISTRICT	WO: 77451
BEFORE POUD	DESCRIPTON:	_ _ _	LLEY-WIDE RECREATION AND PARI	K DISTRICT								John Wu	MUNICIPAL WATER DI		WINCHESTER, CA.	PCWO:
1-800-227-260	LOCATION:	_											CIVIL ENGINEER		RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP. RWUE:
OR		DEPARTMENT	ACCEPTANCE	DATE								DEPARTMENT	ACCEPTANCE	DATE		14-A-03 14-A-04 COORD. 14-A-12 RWUP
811	VERTICAL DATUM:		Den Win	1-20-23	DATE:							NEW BUSINESS P.C.	Zeru Aman	1/23/23	POC #28	14-A-12
	VEITHOAL DATOWI.	-			DRAWN BY:	DATE	BY	MARK		APP	PR. DATE	OPERATIONS	David Wnerth	1/23/23	IRRIGATION PLAN	I.D. 98 SHT. <u>11</u> OF <u>23</u>
TWO FULL WORKING DAYS BEFORE YO	U DIG HORIZONTAL DATUM:	-			CHECKED BY:		ENGINEER		DESCRIPTION		EMWD	ENGINEERING POS ENGINEER				s.a. 34 D-66272



CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

- INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD.
- PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER INSTALL PER DETAIL
- PROVIDE AND INSTALL YARDNEY STRAINER MCS2-1. SIZE: 2" WITH MAX. FLOW 110 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.
- PROVIDE AND INSTALL BUCKNER SUPERIOR 3300 NORMALLY OPEN MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.
- PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.
- PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE VALVE BOX.
- PROVIDE AND INSTALL 3" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.
- PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE
 AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC
 SCH.40 CONDUIT. INSTALL PULL BOX AT ENY CHANGE IN
 DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.
- PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.
- CUT AND CAP EXISTING IRRIGATION MAINLINE—PROVIDE A MINIMUM OF 4FT. SEPARATION AND REMOVE UNUSED PIPE.
- REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1")
 QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING
- COVER INSTALL NEW PURPLE VALVE BOX PER DETAIL

 REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH
- PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.

 (13) EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED
- (BY OTHERS)
- EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.
- CONNECT PROPOSE NEW MASTER VALVE AND FLOW SENSOR WIRES TO EXISTING CONTROLLER. ADJUST EXISTING CONTROLLER FOR HIGH-FLOW SHUT-OFF SETTING.
- PROVIDE AND INSTALL NIBCO T-113 GATE VALVE (MAINLINE SIZE). TO BE INSTALLED PER DETAIL.
- INSTALL 6" PVC PURPLE CLASS 200 SLEEVE. SLEEVE MUST BE BURIED MINIMUM OF 36" FROM FINISH GRADE OR PER THE COUNTY STANDARD.
- REMOVE EXISTING MASTER VALVE, FLOW SENSOR AND ISOLATION VALVE. CUT AND CAP MAINLINE.
- PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL
- PROVIDE AND INSTALL ELECTRICAL POWER CONNECTION FROM NEARBY POWER SOURCE TO NEW PROPOSED IRRIGATION BOOSTER PUMP. ELECTRICAL WIRING INSTALLATION TO BE PER COUNTY AND NEC STANDARD CODE.
- PROVIDE AND INSTALL 6" WIDE CONCRETE MOWCURB
- REMOVE EXISTING VALVE AND VALVE BOX.

IRRIGATION DRAWING NOTE:

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REPRESENTATIVE.
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COLOR CODING

HEAD TO EMWD FOR APPROVAL.

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT

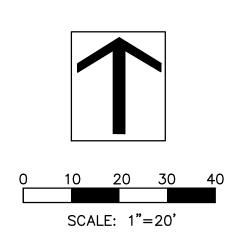
AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE

POTABLE AND RECYCLED WATER SEPARATION NOTE

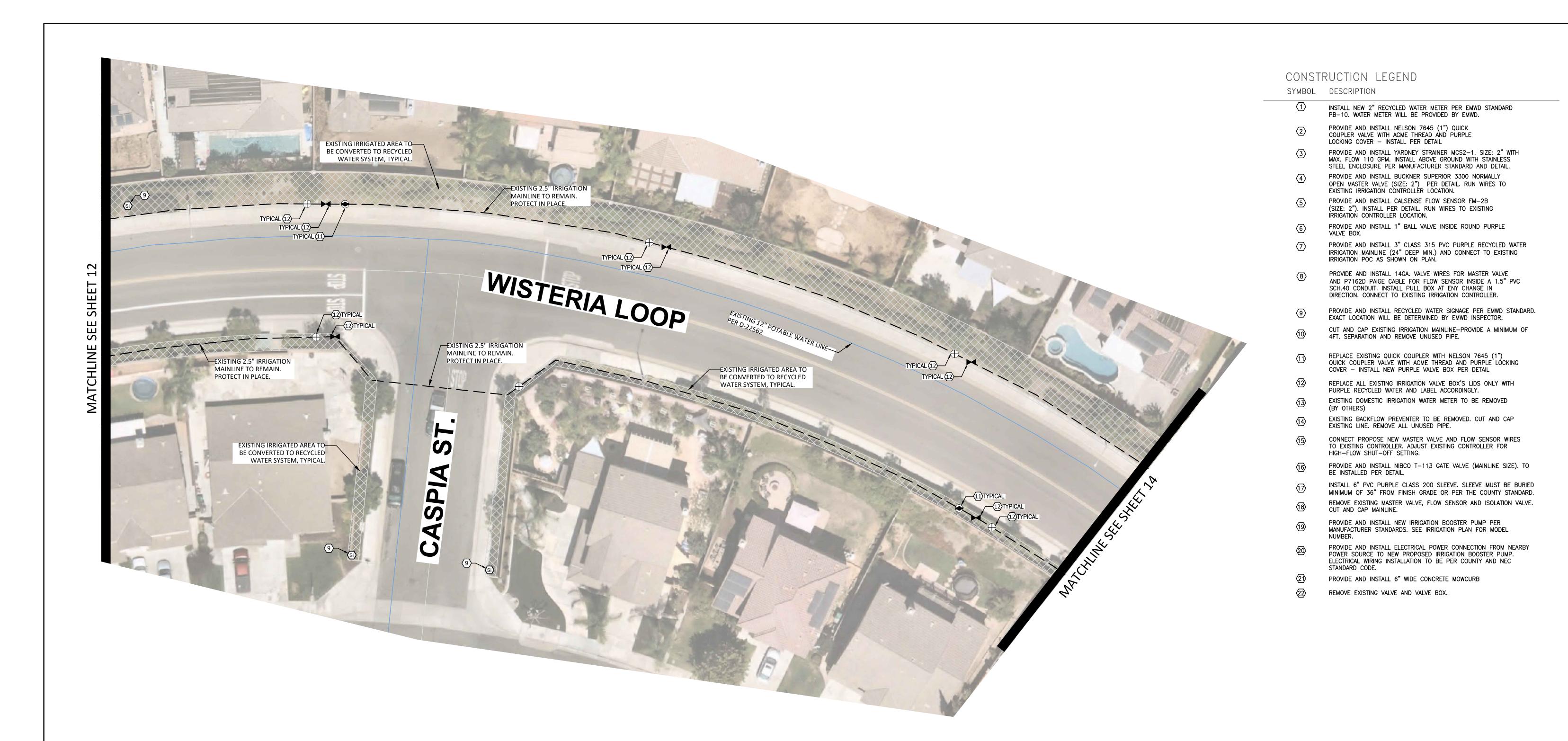
RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY.
ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN
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CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE
THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED
AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200
PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

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DIG ALERT	BENCH MARK		ACCEPTED BY:					REVISIONS		ГЛС	ACCEPTED BY: STERN MUNICIPAL WATER DI	ISTRICT	VALLEY-WIDE RECREATION AND PARK DISTRICT	WO: 77451
BEFORE POUR Call: TOL	DESCRIPTON:		VALLEY-WIDE RECREATION AND PAR	RK DISTRICT						John	n Wuerth	1/23/23	WINCHESTER, CA.	PCWO:
1-800-227 OR	7-2600 LOCATION:	DEPARTMENT	ACCEPTANCE	DATE						DEPARTMENT	SENIOR CIVIL ENGINEER ACCEPTANCE	DATE	RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP. RWUE:
811	VERTICAL DATUM:		Dur War	1-20-23	DATE:					NEW BUSINESS P.C.	Zeru Aman David Wnerth	1/23/23	POC #28	COORD. 14-A-12 RWUP:
					DRAWN BY:	DATE I	BY	MARK	APPR. DA	OPERATIONS ATE ENGINEERING	Dana waen	1/23/23	IRRIGATION PLAN	I.D. 98 SHT. <u>12</u> OF
TWO FULL WORKING DAYS BEFOR	E YOU DIG HORIZONTAL DATUM:				CHECKED BY:	EN	NGINEER	DESCRIPTION	EMWD	POS ENGINEER			1	s.a. 34 D-66273



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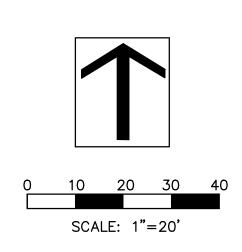
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POTABLE AND RECYCLED WATER SEPARATION NOTE

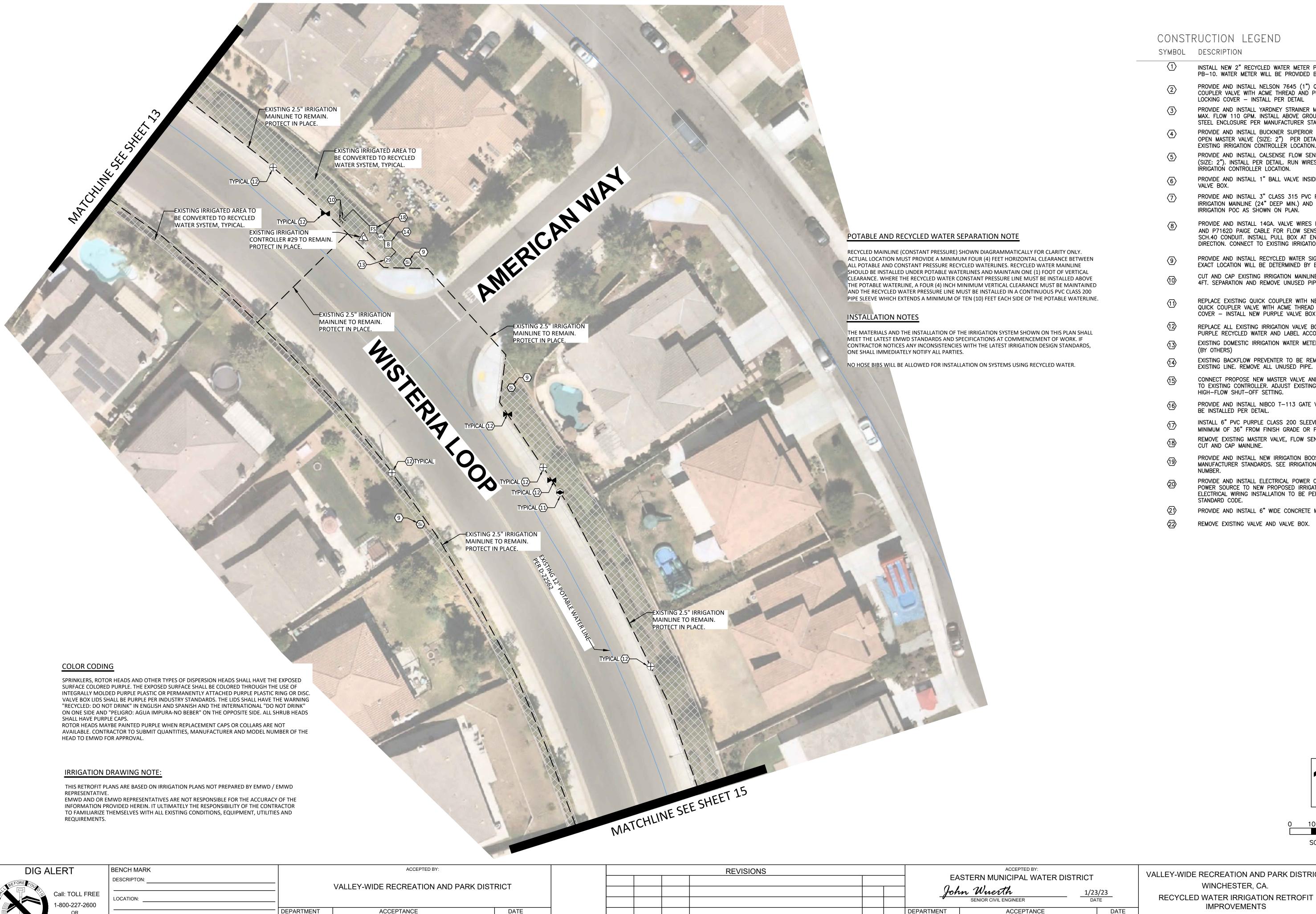
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DIG ALERT	BENCH MARK DESCRIPTON:		ACCEPTED BY:				1	R	EVISIONS		EAS	ACCEPTED BY: STERN MUNICIPAL WATER DIS	STRICT	VALLEY-WIDE RECREATION AND PARK DISTRIC	Г	WO: 77451
Call: T	OLL FREE LOCATION:	VAL	LLEY-WIDE RECREATION AND PA	ARK DISTRICT								n Wuesth SENIOR CIVIL ENGINEER	1/23/23 DATE	WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT	DOPP.	PCWO:
1-800-2	OR	DEPARTMENT	ACCEPTANCE Dan Wan	DATE 1-20-23	DATE						DEPARTMENT NEW BUSINESS P.C.	ACCEPTANCE Zeru Aman	DATE 1/23/23	IMPROVEMENTS POC #28	14-A-0 14-A-0 14-A-1)3)4 12 RWUP:
	VERTICAL DATUM: HORIZONTAL DATUM:				DRAWN BY:	DATE	BY	MARK		APPR. DATE	OPERATIONS ENGINEERING	David Wnerth	1/23/23	IRRIGATION PLAN	I.D. 98	SHT. <u>13</u> OF <u>23</u> D-66274



1-20-23

DATE:

DRAWN BY:

CHECKED BY:

DATE

BY

De Win

VERTICAL DATUM:

TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

- INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD.
- PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL PER DETAIL
- PROVIDE AND INSTALL YARDNEY STRAINER MCS2-1. SIZE: 2" WITH MAX. FLOW 110 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.
- PROVIDE AND INSTALL BUCKNER SUPERIOR 3300 NORMALLY OPEN MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLÉR LOCATION.
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- PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE
- PROVIDE AND INSTALL 3" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.
- PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC SCH.40 CONDUIT. INSTALL PULL BOX AT ENY CHANGE IN DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.
- PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.
- CUT AND CAP EXISTING IRRIGATION MAINLINE-PROVIDE A MINIMUM OF 4FT. SEPARATION AND REMOVE UNUSED PIPE.
- REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL NEW PURPLE VALVE BOX PER DETAIL
- REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.
- EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED (BY OTHERS)
- EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP
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SCALE: 1"=20'

'-WIDE RECREATION AND PARK DISTRICT			WO: 77451
WINCHESTER, CA.			PCWO:
CYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP.		RWUE:
POC #28	COORD.	14-A-03 14-A-04 14-A-12	RWUP:
IRRIGATION PLAN	I.D.	98	SHT. <u>14</u> OF _
	ς Λ	3/1	D-66275

Zeru Aman

David Wnerth

NEW BUSINESS P.C

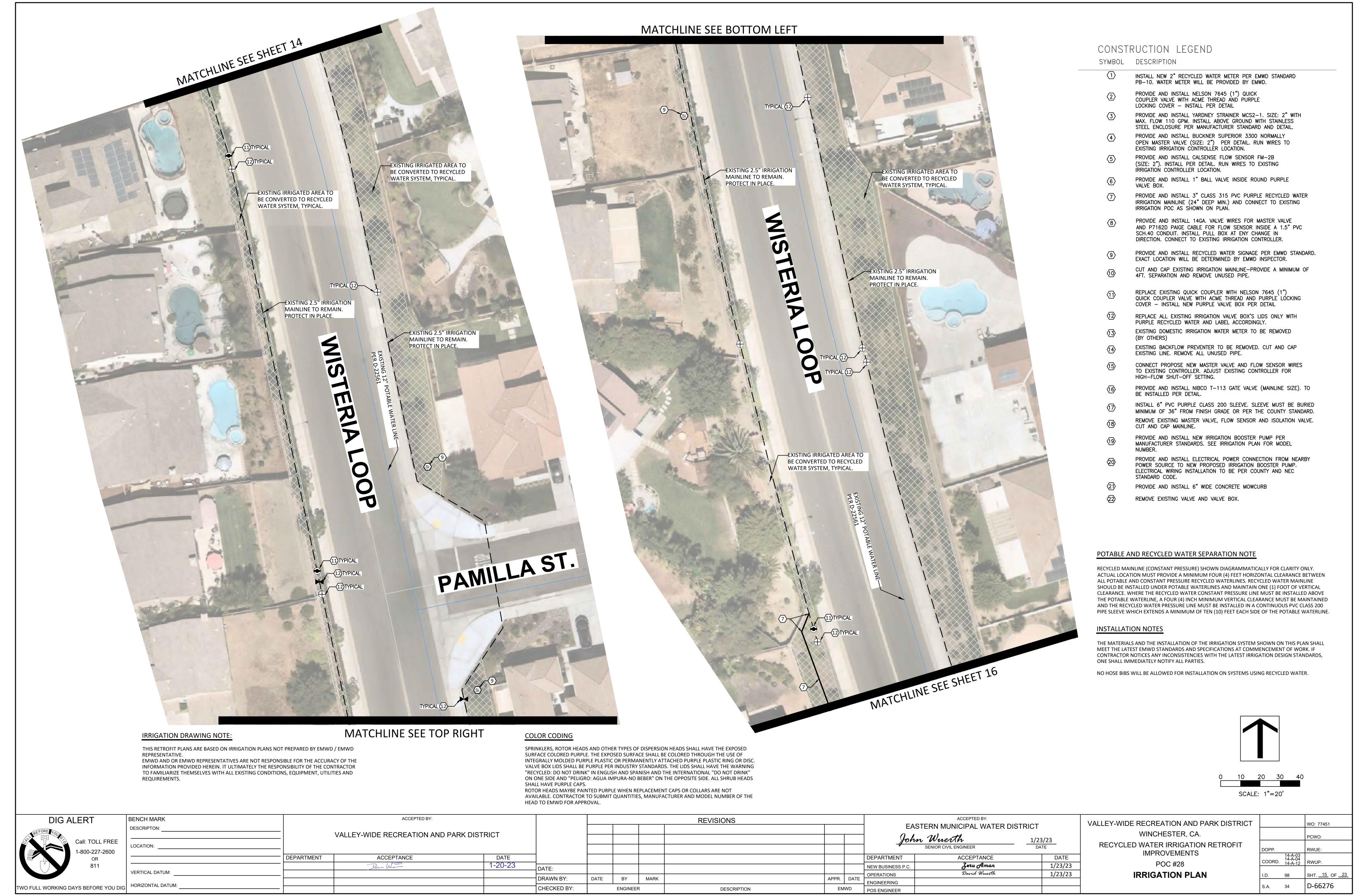
OPERATIONS

ENGINEERING

POS ENGINEER

1/23/23

1/23/23





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MATCHLINE SEE TOP RIGHT

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.

COLOR CODING

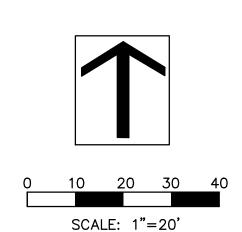
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DIG ALERT	BENCH MARK		ACCEPTED BY:				REVISIONS		FACT	ACCEPTED BY:	NOTOLOT	VALLEY-WIDE RECREATION AND PARK DISTRICT	WO: 77451
BEFORE POU	DESCRIPTON:		ALLEY-WIDE RECREATION AND F	PARK DISTRICT						ERN MUNICIPAL WATER D مد		WINCHESTER, CA.	PCWO:
Call: TOLL FREE	LOCATION:								–	Wueth SENIOR CIVIL ENGINEER		RECYCLED WATER IRRIGATION RETROFIT	DOPP RWUF
1-800-227-2600 OR		DEPARTMENT	ACCEPTANCE	DATE					DEPARTMENT	ACCEPTANCE	DATE	IMPROVEMENTS	14-A-03 14-A-04 COORD, 14-A-04 RWIJP
811	VERTICAL DATUM:		Du Win	1-20-23	DATE:				NEW BUSINESS P.C. OPERATIONS	Zeru Aman David Wneth	1/23/23	POC #28 IRRIGATION PLAN	ID 98 SHT 16 OF
TWO FULL WORKING DAYS BEFORE YOU D	HORIZONTAL DATUM:				DRAWN BY: CHECKED BY:	DATE BY MARK ENGINEER	DESCRIPTION	APPR. DATE	ENGINEERING DOS ENGINEER		-7-57-5		s.a. 34 D-66277

MATCHLINE SEE SHEET 16 EXISTING 2.5" IRRIGATION MAINLINE TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATED AREA TO-BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. MAINLINE TO REMAIN.

MATCHLINE SEE TOP RIGHT

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CHEROKEE ROSE ST.

CONSTRUCTION LEGEND SYMBOL DESCRIPTION INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD. PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL PER DETAIL

VALVE BOX.

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PROVIDE AND INSTALL BUCKNER SUPERIOR 3300 NORMALLY

OPEN MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM—2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING

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PROVIDE AND INSTALL 3" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.

PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE
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QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING
COVER — INSTALL NEW PURPLE VALVE BOX PER DETAIL

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EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED

(PV OTHERS)

EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.

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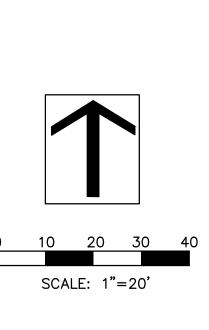
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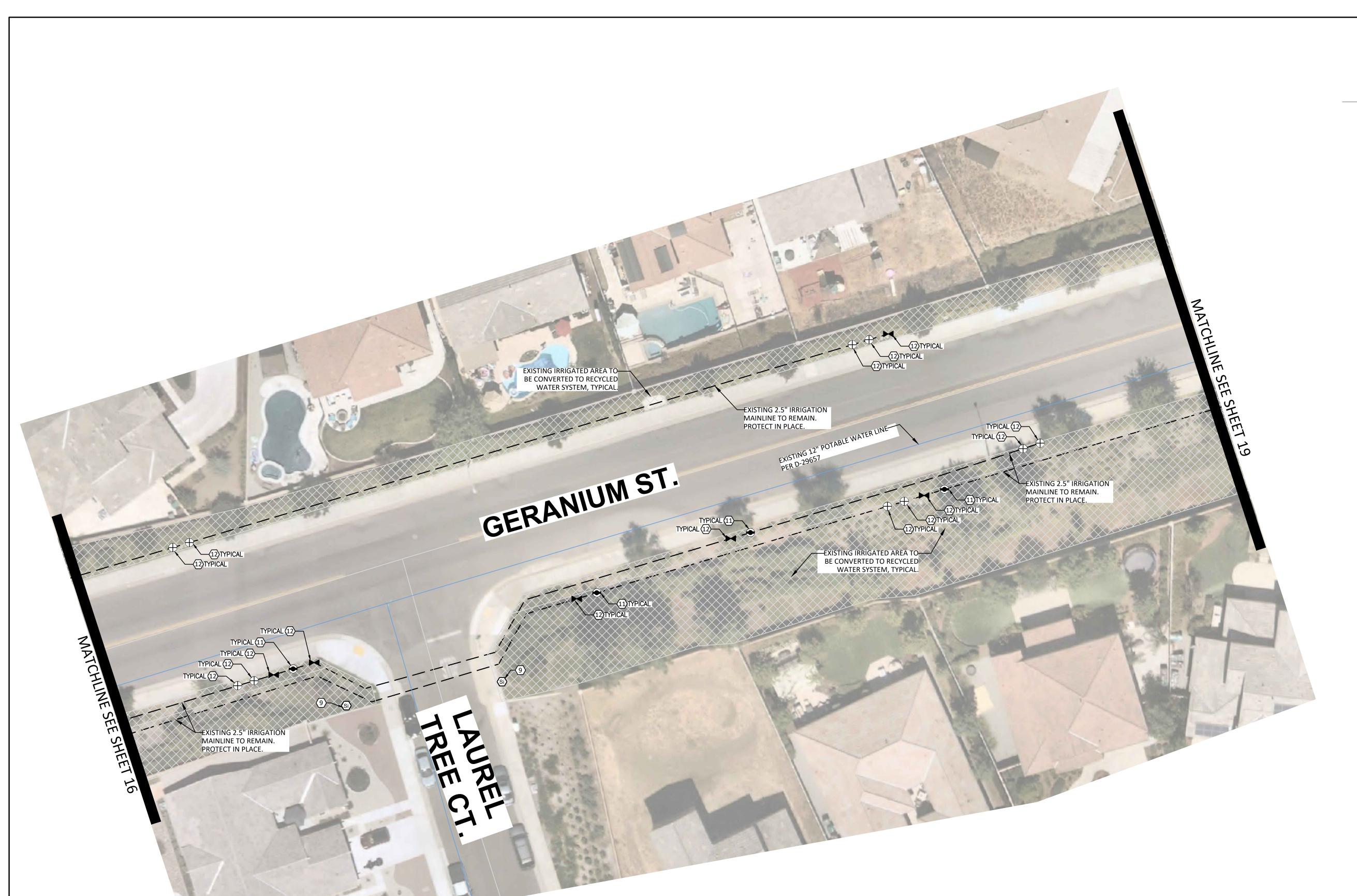
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					HEAD TO EMWD FOR AP	PROVAL.									
DIG ALERT	BENCH MARK DESCRIPTON:		ACCEPTED BY:					F	REVISIONS			EAST	ACCEPTED BY: ERN MUNICIPAL WATER DI	STRICT	VALLEY-WIDE RECREATION AND PARK DISTRICT
Call: TOLL FREE		V	ALLEY-WIDE RECREATION AND	PARK DISTRICT									Wwesth SENIOR CIVIL ENGINEER	1/23/23 DATE	WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT
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TWO FULL WORKING DAYS BEFORE YOU DI	G HORIZONTAL DATUM:				DRAWN BY: CHECKED BY:	DATE	BY ENGINEER	MARK	DESCRIPTION	APPF	R. DATE EMWD	ENGINEERING			

D-66278

COORD. 14-A-03 14-A-04 14-A-12



CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

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- PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.
- CUT AND CAP EXISTING IRRIGATION MAINLINE-PROVIDE A MINIMUM OF 4FT. SEPARATION AND REMOVE UNUSED PIPE.
- REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL NEW PURPLE VALVE BOX PER DETAIL
- REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH
- PURPLE RECYCLED WATER AND LABEL ACCORDINGLY. EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED
- (BY OTHERS)
- EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.
- CONNECT PROPOSE NEW MASTER VALVE AND FLOW SENSOR WIRES TO EXISTING CONTROLLER. ADJUST EXISTING CONTROLLER FOR
- HIGH-FLOW SHUT-OFF SETTING. PROVIDE AND INSTALL NIBCO T-113 GATE VALVE (MAINLINE SIZE). TO BE INSTALLED PER DETAIL.
- INSTALL 6" PVC PURPLE CLASS 200 SLEEVE. SLEEVE MUST BE BURIED MINIMUM OF 36" FROM FINISH GRADE OR PER THE COUNTY STANDARD.
- REMOVE EXISTING MASTER VALVE, FLOW SENSOR AND ISOLATION VALVE. CUT AND CAP MAINLINE.
- PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL
- PROVIDE AND INSTALL ELECTRICAL POWER CONNECTION FROM NEARBY POWER SOURCE TO NEW PROPOSED IRRIGATION BOOSTER PUMP. ELECTRICAL WIRING INSTALLATION TO BE PER COUNTY AND NEC
- STANDARD CODE. PROVIDE AND INSTALL 6" WIDE CONCRETE MOWCURB
- REMOVE EXISTING VALVE AND VALVE BOX.

IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

INSTALLATION NOTES

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NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.

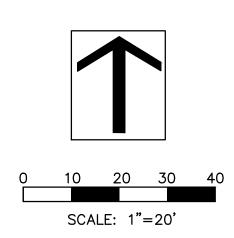
COLOR CODING

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

POTABLE AND RECYCLED WATER SEPARATION NOTE

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.



DIG ALERT	BENCH MARK		ACCEPTED BY:					REVISIONS				ACCEPTED BY:		VALLEY-WIDE RECREATION AND PARK DISTRICT	WO: 77451
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OR 811		DEPARTMENT	ACCEPTANCE	DATE 1-20-23							DEPARTMENT	ACCEPTANCE Zeru Aman	DATE 1/23/23	IMPROVEMENTS POC #28	COORD. 14-A-03 14-A-04 14-A-12 RWUP:
811	VERTICAL DATUM:		Ilm Win	1-20-23	DRAWN BY:	DATE BY	MARK		ADDD	DATE	NEW BUSINESS P.C. OPERATIONS	David Wnerth	1/23/23	IRRIGATION PLAN	I.D. 98 SHT. <u>18</u> OF <u>23</u>
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IRRIGATION DRAWING NOTE:

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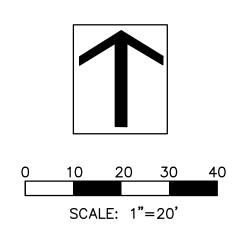
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DIG ALERT DESCRIPTON: Call: TOLL FREE LOCATION: 1-800-227-2600 VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

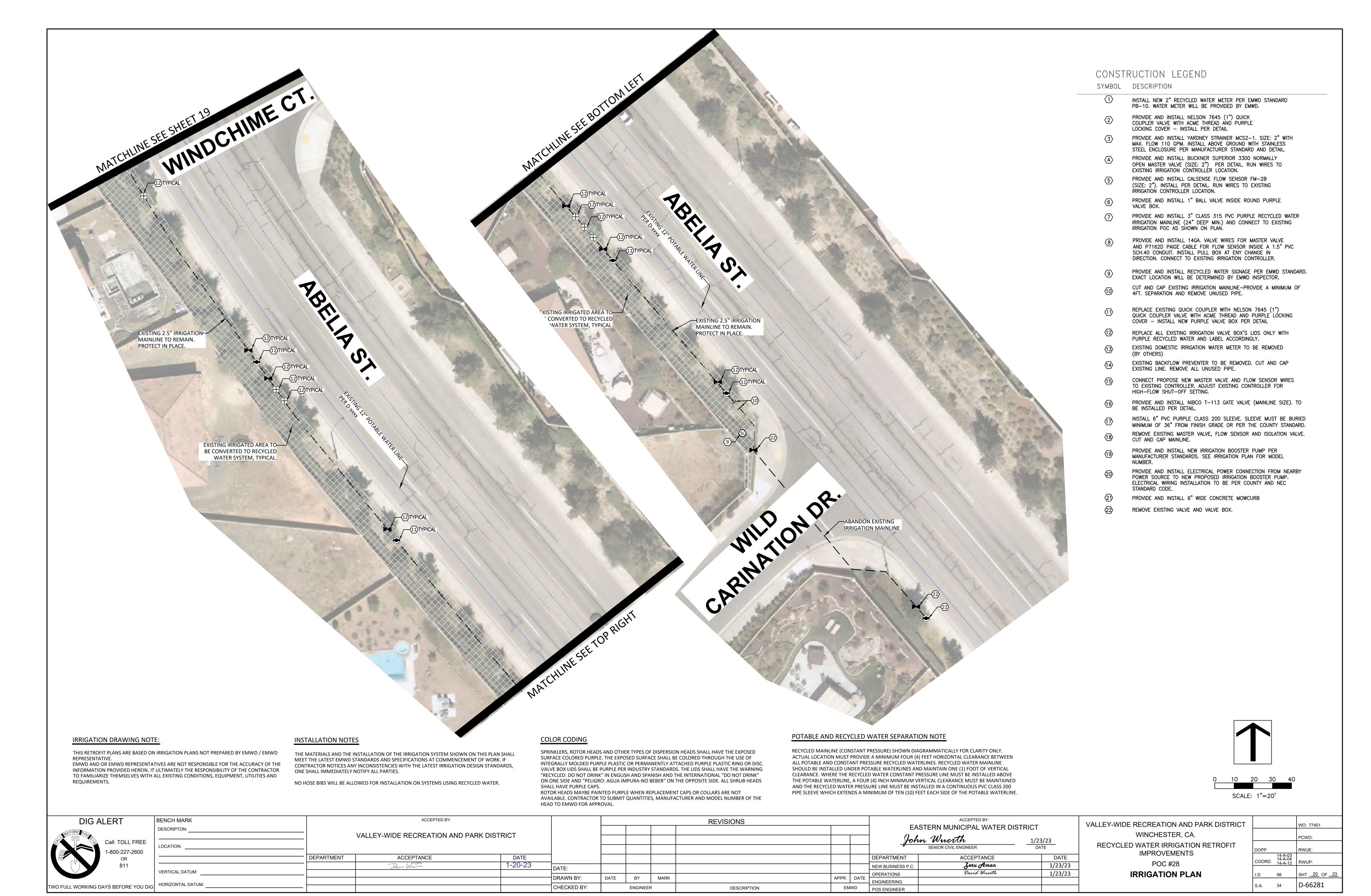
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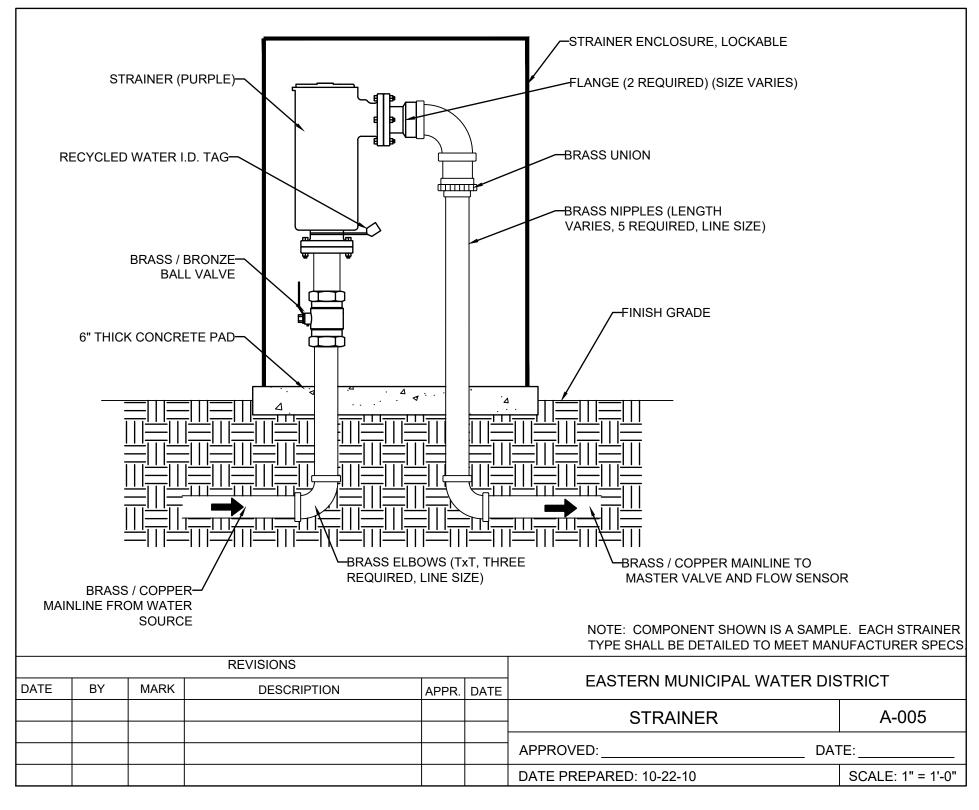
ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT John Wnerth 1/23/23 SENIOR CIVIL ENGINEER DEPARTMENT ACCEPTANCE DATE Zeru Aman 1/23/23 NEW BUSINESS P.C David Wuerth **OPERATIONS** 1/23/23 DRAWN BY: DATE BY **ENGINEERING** CHECKED BY: POS ENGINEER

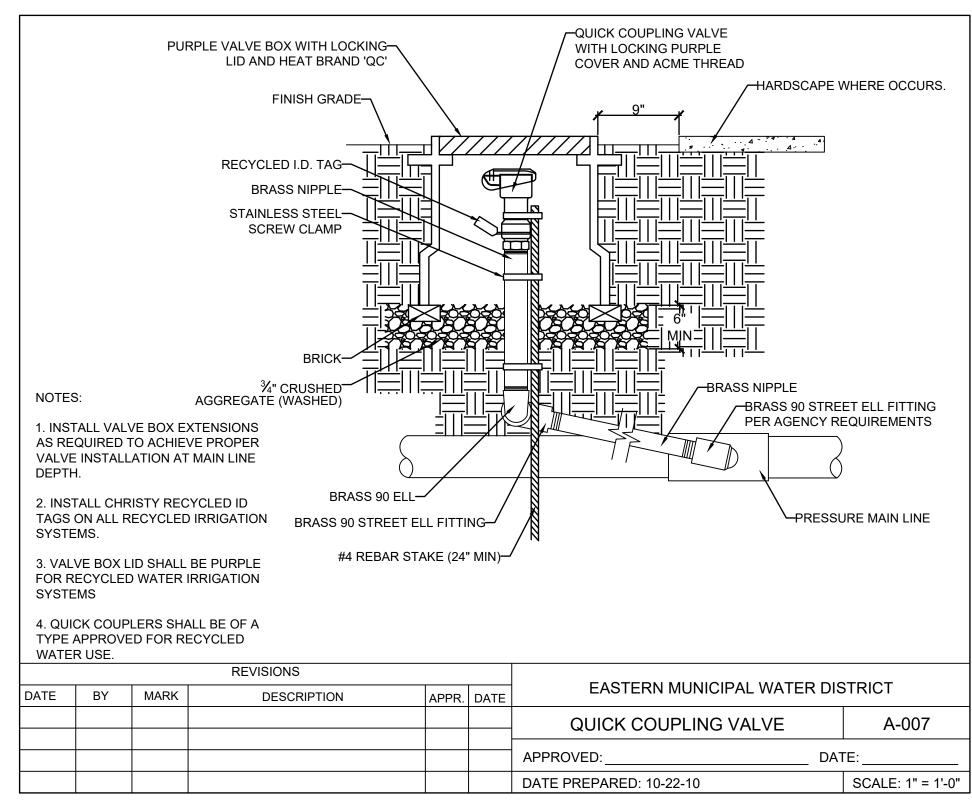
VALLEY-WIDE RECREATION AND PARK DIS WINCHESTER, CA. RECYCLED WATER IRRIGATION RETRO **IMPROVEMENTS**

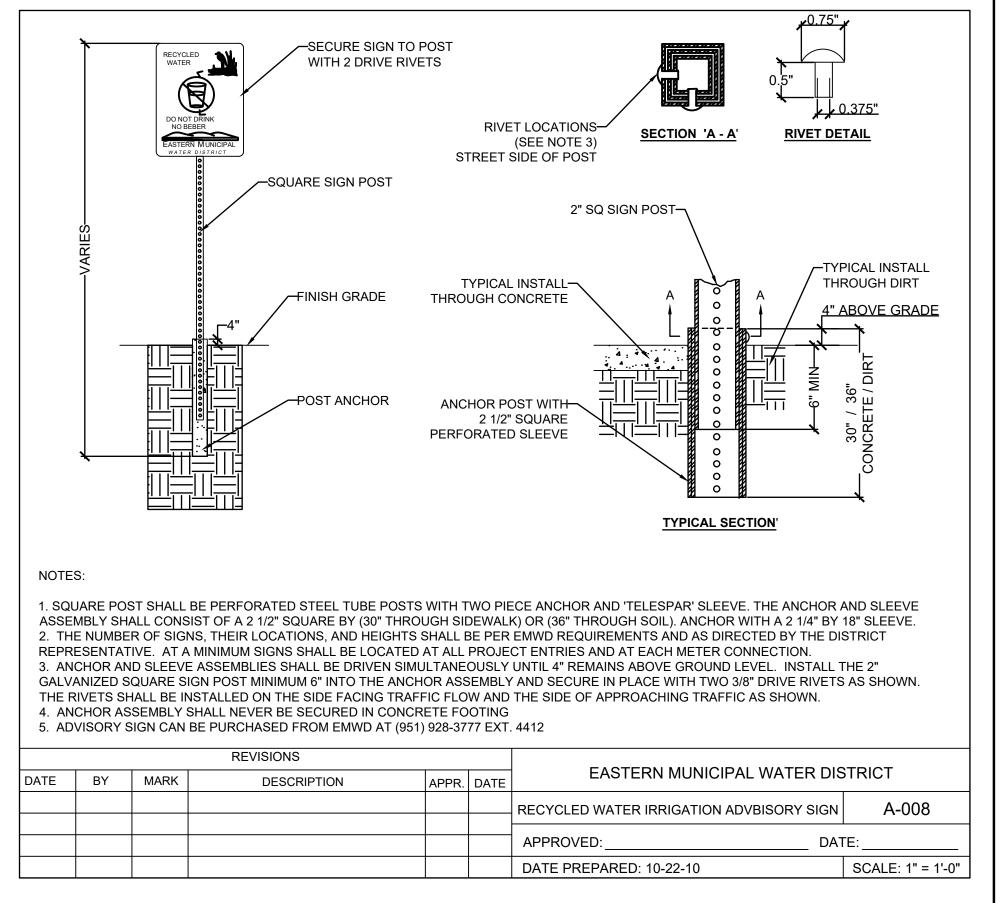
POC #28 **IRRIGATION PLAN**

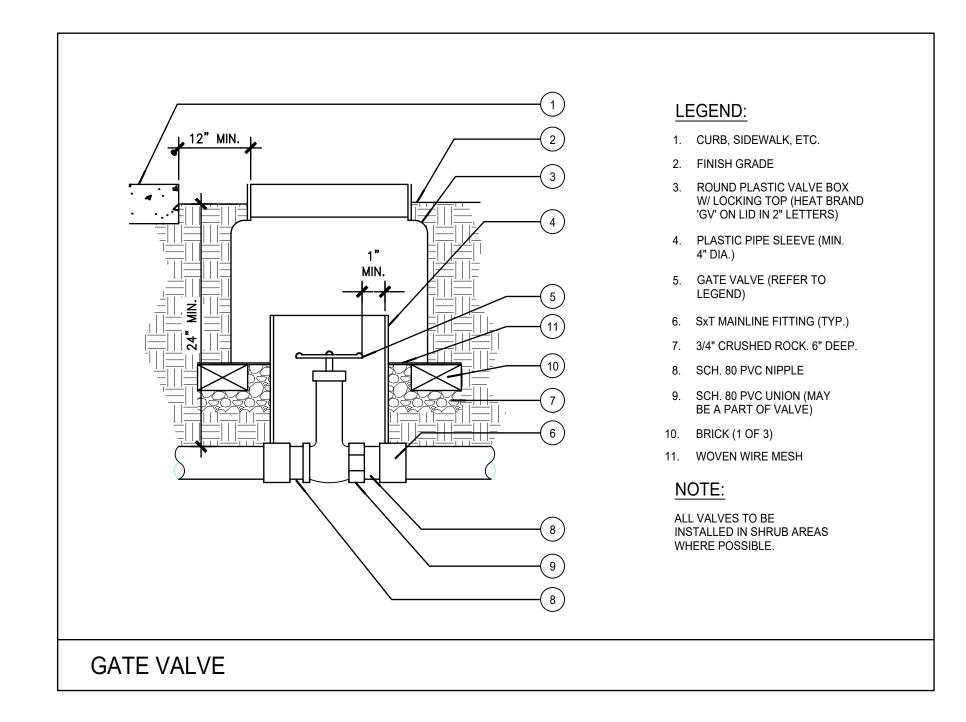
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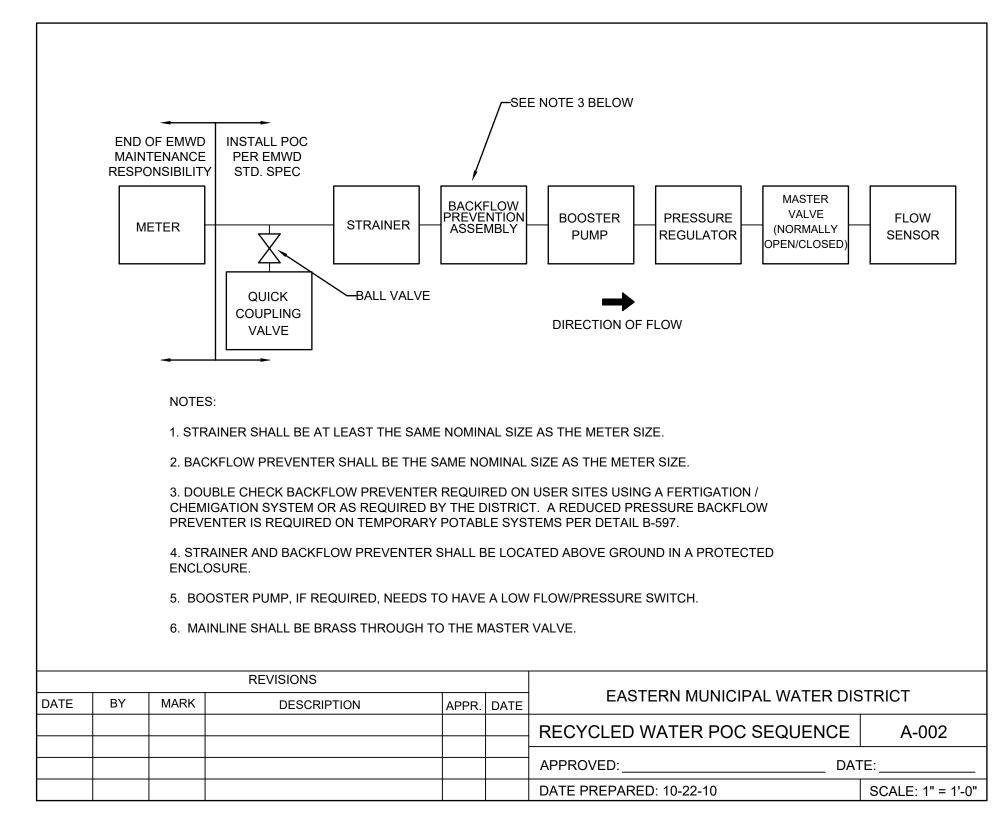


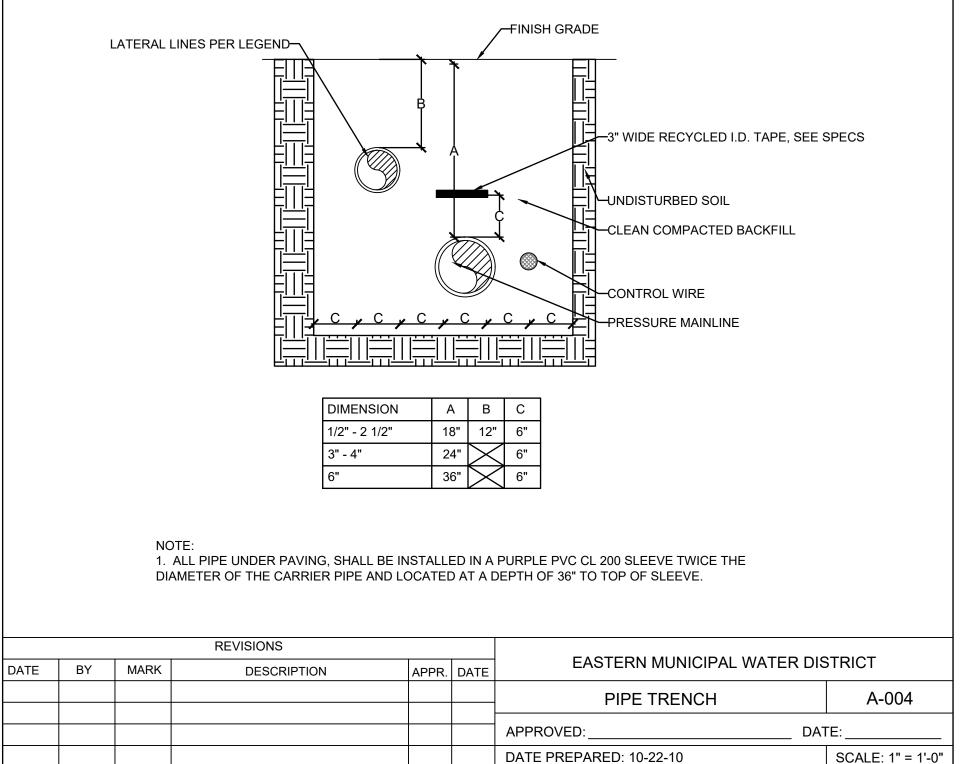


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INSTALLATION NOTES

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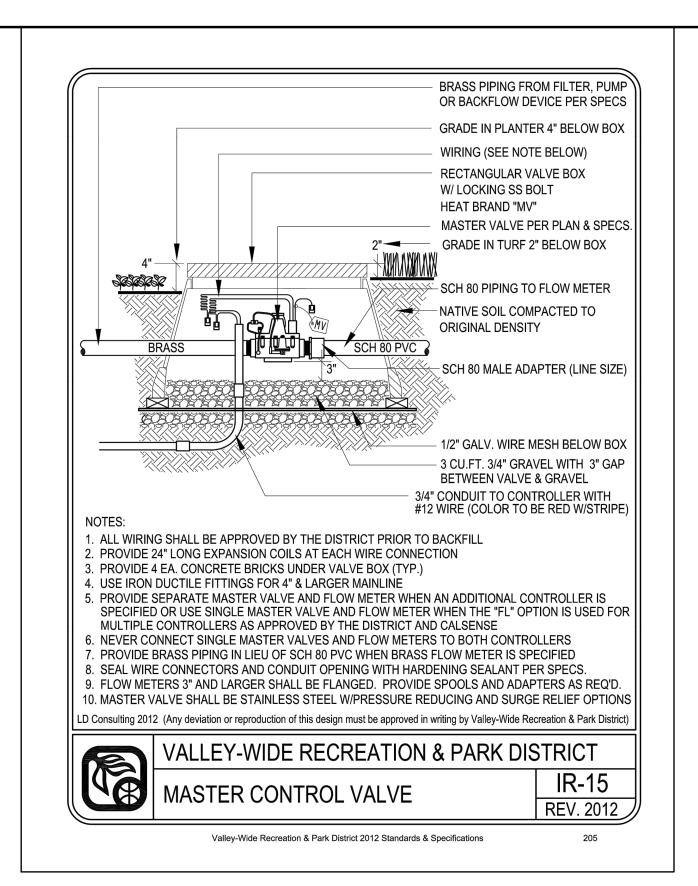


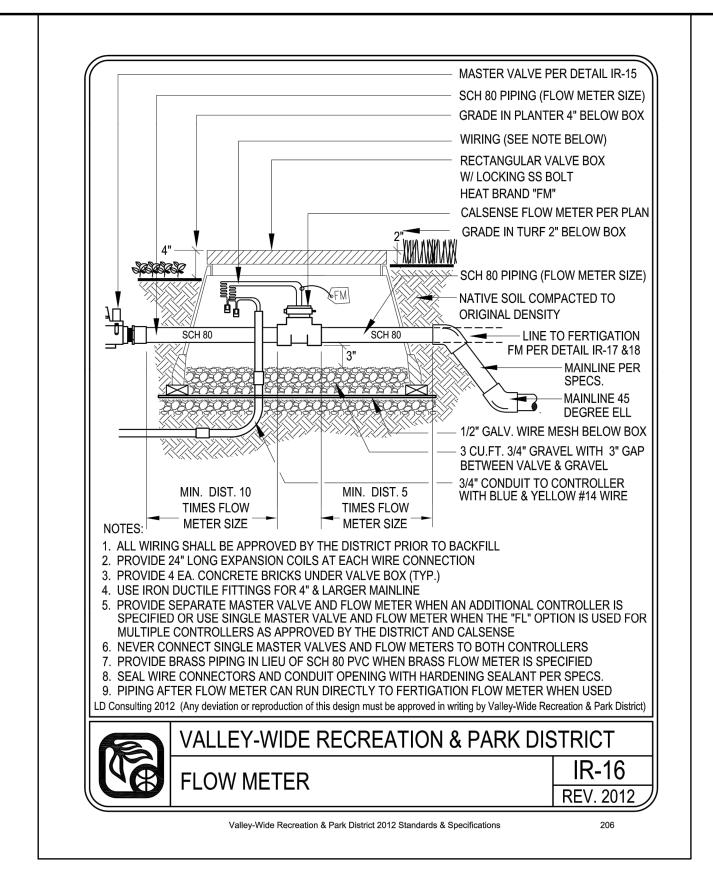
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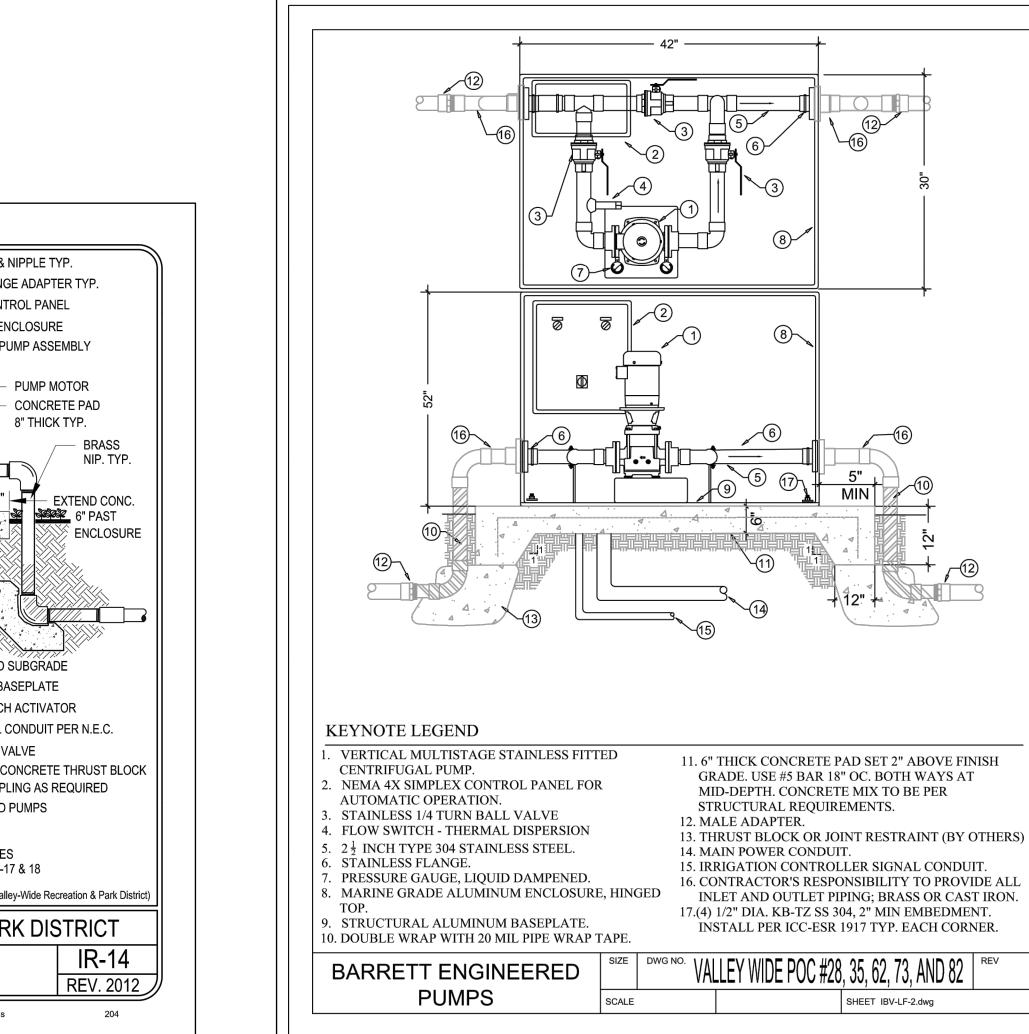
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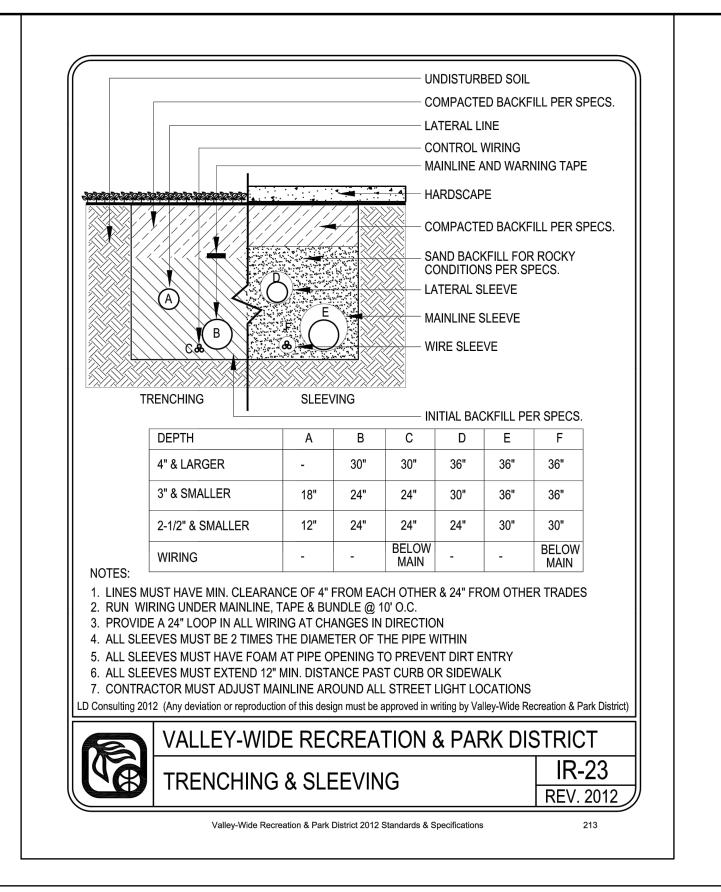
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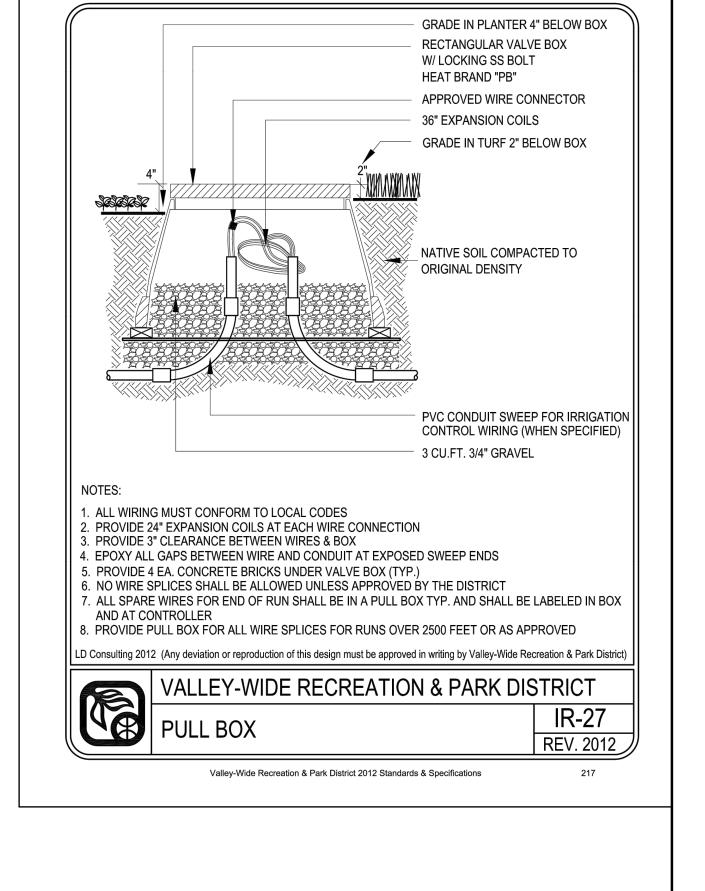
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WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT	DOPP.		RWUE:
IMPROVEMENTS POC #28	COORD.	14-A-03 14-A-04 14-A-12	RWUP:
IRRIGATION DETAILS	I.D.	98	SHT. <u>21</u> OF <u>23</u>
	S.A.	34	D-66282

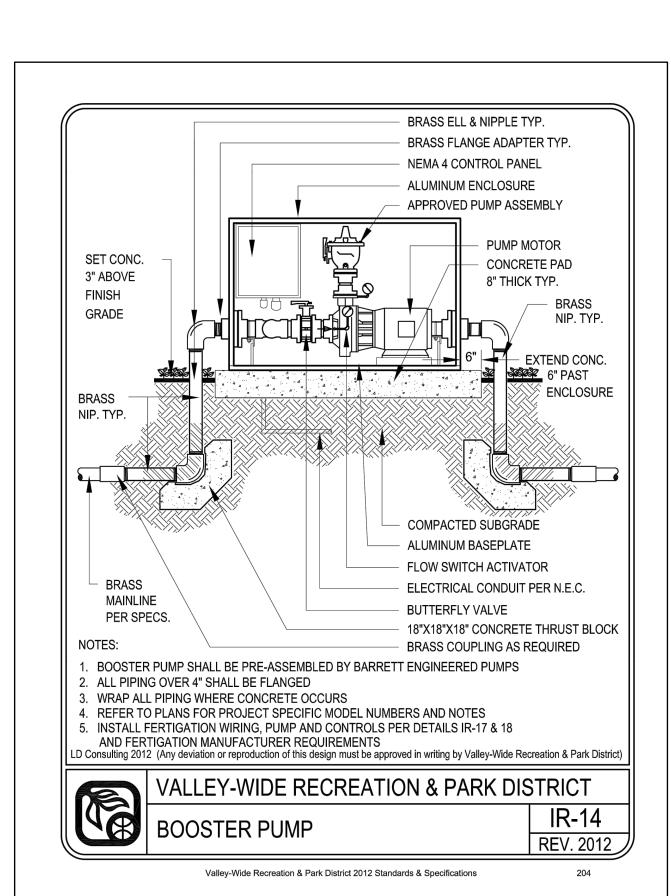


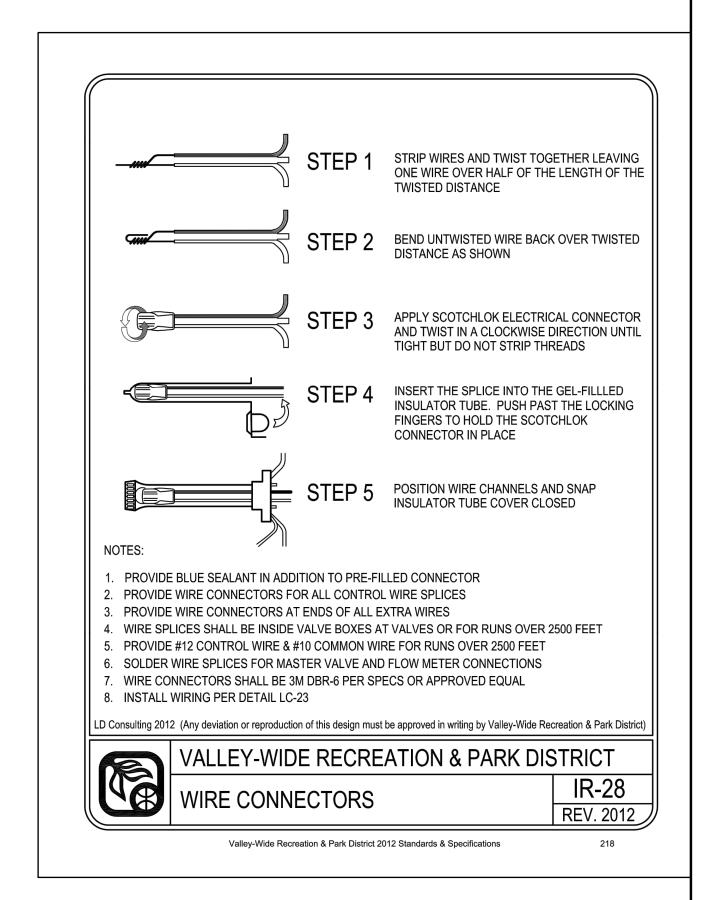














WATER.

INSTALLATION NOTES

COLOR CODING

HAVE PURPLE CAPS.

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN

SHALL MEET THE LATEST EMWD AND V.W.R.P.D. STANDARDS AND SPECIFICATIONS. IF

CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED

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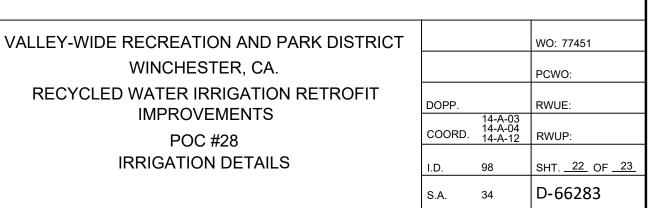
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THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY

STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

ACCEPTED BY: ACCEPTED BY: BENCH MARK **REVISIONS** EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT John Wuerth 1/23/23 LOCATION: SENIOR CIVIL ENGINEER **DEPARTMENT** ACCEPTANCE DATE DEPARTMENT **ACCEPTANCE** DATE 1-20-23 1/23/23 Zeru Aman NEW BUSINESS P. DATE: VERTICAL DATUM: David Wnerth 1/23/23 **OPERATIONS** DRAWN BY: DATE BY **ENGINEERING** CHECKED BY: POS ENGINEER



I. CONTRACTOR'S IRRIGATION WORK RESPONSIBILITIES

- A. SCOPE OF WORK: THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
- B. CONFORMANCE: ALL IRRIGATION WORK SHALL CONFORM TO APPLICABLE LOCAL, COUNTY AND/OR STATE CODES, REGULATIONS AND RULES.
- C. LICENSE: ALL WORK SHALL BE PERFORMED BY A C-27 CALIFORNIA LICENSED LANDSCAPE IRRIGATION CONTRACTOR.
- D. PERMITS AND INSPECTIONS: THE CONTRACTOR SHALL OBTAIN, COORDINATE AND PAY FOR ANY AND ALL PERMITS, FEES AND AGENCY INSPECTIONS AS REQUIRED.
- INSURANCE: THE CONTRACTOR SHALL CARRY ALL WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY ALL APPLICABLE CODES, REGULATIONS AND BY THE OWNER (JOB SUPERINTENDENT).
- F. SITE VERIFICATION: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS NECESSARY TO ACHIEVE THE INTENDED DESIGN OF THE IRRIGATION SYSTEM. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY.
- G. LIABLE FOR ENCROACHMENT: THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY ENCROACHMENT INTO ADJACENT PROPERTY, RIGHTS—OF—WAYS, EASEMENTS, SET—BACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
- H. POINT OF CONNECTION VERIFICATION: THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE, METER SIZE AND SIZE OF SERVICE TO METER (P.O.C.) AT EACH POINT OF CONNECTION.
- I. FIELD STAKING: PRIOR TO INSTALLATION, THE CONTRACTOR SHALL LOCATE BY STAKES OR OTHER MEANS ALL PRESSURE SUPPLY LINES, CONTROL EQUIPMENT, GROUND COVER DELINEATIONS AND HEADS FOR APPROVAL BY THE OWNER (JOB SUPERINTENDENT).
- J. COORDINATION OF ACTIVITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS ACTIVITIES WITH ALL OTHER TRADES THROUGH THE OWNER (JOB SUPERINTENDENT).
- K. INTENDED DESIGN COVERAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION, MODIFICATION OR REVISIONS OF THE SYSTEMS AS NECESSARY TO MAINTAIN THE CONSISTENT COVERAGE DESIGN OF THE CONTRACT DOCUMENTS. ANY DEVIATION FROM THE CONTRACT DOCUMENTS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE
- L. NOTIFICATION OF DISCREPANCIES: ANY DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND THE CONTRACT DOCUMENTS AND/OR THE DESIGN INTENT AFFECTING THE SUCCESSFUL COMPLETION AND COST OF THE PROJECT SHALL BE REPORTED TO THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY. ALL WORK RELATED TO THE PROBLEM AREA SHALL CEASE UNTIL THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER (JOB SUPERINTENDENT) OR LANDSCAPE ARCHITECT IN WRITING. ANY CONTINUATION OF WORK IS AT THE CONTRACTOR'S RISK AND EXPENSE.
- M. IRRIGATION PLANS: THE IRRIGATION PLANS, INCLUDING PIPING AND EQUIPMENT LOCATIONS, ARE DRAWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO THE SYSTEM AS REQUIRED TO AVOID PHYSICAL ELEMENTS AND CONFORM TO THE SITE CONDITIONS. IN ALL CASES, THE CONTRACTOR SHALL INSURE THAT THERE ARE NO CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING AND CONSTRUCTION ELEMENTS, AND EXISTING UTILITIES.
- N. ELECTRICAL CONNECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ELECTRICAL CONNECTION FROM POWER SOURCE TO CONTROLLERS AS INDICATED ON THE PLANS WHERE APPLICABLE.
- O. LIABLE FOR DAMAGE: THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ALL UTILITIES, CONSTRUCTION, IRRIGATION AND PLANTING ELEMENTS, EITHER MARKED OR UNMARKED, AND SHALL REPAIR OR REPLACE DAMAGE TO ITS ORIGINAL CONDITION IN A MANNER ACCEPTABLE TO THE OWNER (JOB SUPERINTENDENT).
- P. LIABLE FOR LOSS: THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY LOSS TO HIS EQUIPMENT, PARTS AND MATERIALS ON THIS PROJECT UNTIL COMPLETION AND ACCEPTANCE OF THE JOB IN WRITING FROM THE OWNER (JOB SUPERINTENDENT).
- Q. AS BUILTS: THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE 'AS BUILT' RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. BEFORE THE TIME OF THE FINAL INSPECTION, THE CONTRACTOR SHALL TRANSFER ALL INFORMATION FROM THE 'AS BUILT' SET AND FIELD STAKING OF ALL EQUIPMENT LOCATED ON THE MAINLINE AND CONTROL WIRE LOCATION TO A REPRODUCIBLE OZALID SEPIA, PROCURED FROM THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT. ALL WORK SHALL BE NEAT AND LEGIBLE. THE CONTRACTOR SHALL CERTIFY REPRODUCIBLES AS TO ACCURACY AND COMPLETENESS.
- R. WRITTEN GUARANTEE: ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE ON HIS LETTERHEAD AT THE TIME OF THE FINAL INSPECTION.
- WRITTEN CERTIFICATION: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION THAT THE IRRIGATION SYSTEM IS INSTALLED FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AND IN FULL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS SHALL BE ON THE CONTRACTOR'S LETTERHEAD WITH HIS IRRIGATION AND CALIFORNIA C-27 CONTRACTOR'S LICENSE NUMBER.
- TURNOVER ITEMS: THE CONTRACTOR SHALL SUPPLY TO THE OWNER (JOB SUPERINTENDENT), AS A PART OF THIS CONTRACT, THE FOLLOWING ITEMS PRIOR TO THE TIME OF THE FINAL SITE OBSERVATION:
- 1. A REPRODUCIBLE SET OF 'AS BUILT' DRAWINGS AS PER NOTE 'Q' ABOVE.
- THE ORIGINAL OF THE GUARANTEE LETTER.
 THE ORIGINAL OF THE CERTIFICATION LETTER.
- THE ORIGINAL OF THE CERTIFICATION LETTER.
 TWO (2) KEYS FOR EACH AUTOMATIC CONTROLLER.
 TWO (2) SETS OF ANY SPECIAL EQUIPMENT REQUIRED FOR OPERATING, ADJUSTING, ASSEMBLING AND REMOVING EACH TYPE OF EQUIPMENT SUPPLIED ON THIS PROJECT AS

- II. OWNER'S IRRIGATION WORK RESPONSIBILITIES
- A. CONSTRUCTION RESPONSIBILITIES: THE OWNER WILL BE DIRECTLY RESPONSIBLE FOR ALL ASPECTS OF CONSTRUCTION INCLUDING ALL IRRIGATION INSPECTIONS. ALL FIELD MEETINGS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT).
- B. DETERMINING LEGAL AND PHYSICAL ELEMENTS: THE OWNER (JOB SUPERINTENDENT) SHALL BE RESPONSIBLE FOR DETERMINING PROPERTY LINES, RIGHTS—OF—WAYS, TRACT BOUNDARIES, GRADES, EASEMENTS, UTILITY LOCATIONS (ABOVE AND BELOW GRADE) AND ANY OTHER LEGAL OR PHYSICAL ELEMENTS AS REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK. THE CONTRACTOR SHALL NOT BE PERMITTED TO PROCEED WITH ANY WORK WITHOUT DETERMINATION OF THE ABOVE INFORMATION.
- . SITE DISCREPANCIES: ALL DISCREPANCIES IN SITE CONDITIONS, DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY. IT IS THE OWNER'S (JOB SUPERINTENDENT'S) RESPONSIBILITY TO CONSULT THE LANDSCAPE ARCHITECT PRIOR TO ANY FURTHER WORK IN THAT AREA. ANY UNREPORTED DISCREPANCY AND CONTINUED WORK WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE.
- D. CONTRACT FULFILLMENT: ALL QUESTIONS RELATING TO INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS, QUALITY OF WORK AND ACCEPTABLE FULFILLMENT OF INTENT OF THE CONTRACT DOCUMENT SHALL BE DECIDED BY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT CONCURRENTLY.
- III. REQUIRED FIELD OBSERVATION WORK A. REQUIRED FIELD OBSERVATION WORK: THESE PLANS WERE PREPARED WITH THE UNDERSTANDING THAT THE OWNER OF SAID PLANS WILL USE E.M.W.D. TO PROVIDE 'FULL' CONTRACT SERVICES INCLUDING FIELD OBSERVATION SERVICES DURING CONSTRUCTION. FAILURE TO USE E.M.W.D. TO PROVIDE AND COMPLETE THE FIELD OBSERVATION SERVICES SET FORTH HEREIN WILL SIGNIFICANTLY INCREASE THE RISK OF LOSS RESULTING, AMONG OTHER CAUSES, FROM MISINTERPRETATION OF THE INTENT OF THE DESIGN, UNAUTHORIZED MODIFICATIONS THERETO, AND FAILURE TO DETECT ERRORS AND OMISSIONS IN THE PLANS AND SPECIFICATIONS BEFORE THEY BECOME COSTLY MISTAKES BUILT INTO THE PROJECT. THEREFORE, IN THE EVENT THAT E.M.W.D. IS OTHERWISE PRECLUDED FROM COMPLETING THE FIELD OBSERVATION SERVICES SET FORTH HEREIN, THE OWNER, OR SUBSEQUENT OWNER (INDIVIDUALS OR CORPORATIONS WHO HAVE PURCHASED THESE PLANS WITH THE PROJECT). AGREES TO HOLD HARMLESS, INDEMNIFY, AND DEFEND E.M.W.D. FROM

IV. LANDSCAPE ARCHITECT'S IRRIGATION FIELD OBSERVATION SCHEDULE

AND AGAINST ANY AND ALL CLAIMS.

- A. FIELD OBSERVATION COORDINATION: THE FOLLOWING OBSERVATIONS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT). THE CONTRACTOR SHALL NOTIFY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT NOT LESS THAN FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY OBSERVATION. CONTINUED WORK WITHOUT OBSERVATION AT THESE PHASES OF WORK IS AT THE CONTRACTOR'S RISK, WITH ANY REQUIRED CHANGE OR MODIFICATION AT THE CONTRACTOR'S EXPENSE. THE OWNER (JOB SUPERINTENDENT) SHALL INFORM THE LANDSCAPE ARCHITECT AS TO THE PURPOSE AND TIME OF THE OBSERVATION FORTY-EIGHT (48) HOURS IN ADVANCE.
- B. CONTRACTOR ORIENTATION/PRE-CONSTRUCTION MEETING: THIS MEETING SHALL BE CONDUCTED TO DISCUSS THE PLANS AND SPECIFICATIONS, POSSIBLE DISCREPANCIES, SITE CONDITIONS AND OTHER ASPECTS OF THE PROJECT IRRIGATION WORK SUCH AS PERSONNEL, SCHEDULE AND REQUIREMENTS FOR STARTING WORK. PRIOR TO THE MEETING, THE CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH SITE CONDITIONS AND THE PLANS, DETAILS AND SPECIFICATIONS.
- C. IRRIGATION MAINLINE AND EQUIPMENT LAYOUT: THIS OBSERVATION SHALL BE PERFORMED BY THE OWNER (JOB SUPERINTENDENT) FOLLOWING STAKING OF ALL PRESSURE MAINLINE AND CONTROL EQUIPMENT, VERIFICATION OF ALL SITE CONDITIONS AND PRIOR TO ANY TRENCHING. ANY DISCREPANCIES NOT PREVIOUSLY NOTED SHALL BE CORRECTED AT THIS TIME TO THE SATISFACTION OF THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
- D. IRRIGATION MAINLINE AND PRESSURE TEST: THIS OBSERVATION IS FOR THE PURPOSE OR REVIEWING ALL MAINLINE LAYOUT FOR CONFORMANCE TO SPECIFICATIONS AND VERIFYING THE WATER TIGHTNESS OF PRESSURE SYSTEMS PRIOR TO BACKFILLING TRENCHES. PRESSURE TESTS MUST CONFORM TO MANUFACTURER'S SPECIFICATIONS. ALL PRESSURE LINES SHALL BE TESTED UNDER A SUSTAINED HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS. THIS TEST SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER (JOB SUPERINTENDENT) TO MANUFACTURER'S ACCEPTED TESTING PROCEDURES AND APPROVED IN WRITING BY THE OWNER (JOB SUPERINTENDENT), PRIOR TO BACKFILLING ANY TRENCHES. CONTRACTOR SHALL FURNISH NECESSARY FORCE PUMP AND ALL OTHER NECESSARY TESTING EQUIPMENT.
- E. PROGRESS INSPECTIONS: PERIODIC INSPECTIONS SHALL BE PERFORMED BY OWNER (JOB SUPERINTENDENT) DURING THE LAYOUT OF ALL LATERAL LINE SYSTEMS, WITH TRENCHES OPEN TO VERIFY CONFORMANCE TO DETAILS, DEPTH OF PIPE AND EQUIPMENT ASSEMBLIES.
- F. IRRIGATION COMPLETION/COVERAGE TEST: THIS OBSERVATION IS TO INSURE CONFORMANCE OF ALL IRRIGATION EQUIPMENT WITH IRRIGATION CONTRACT DOCUMENTS AND WILL CONSIST OF OPERATION OF EACH SYSTEM TO INSURE INTENDED COVERAGE. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND BUILDINGS, ETC. PRIOR TO THIS OBSERVATION. THIS MAY INCLUDE CHANGES IN NOZZLE SIZES AND DEGREE OF ARC TO OPTIMIZE OPERATION.

V. SCOPE OF IRRIGATION WORK

- A. GENERAL IRRIGATION NOTES:
- SPECIFIED EQUIPMENT: ALL EQUIPMENT SHALL BE AS LISTED IN THE LEGEND AND INSTALLED
 AS PER DETAILS AND SPECIFICATIONS, OR MANUFACTURER'S RECOMMENDATION. ANY
 SUBSTITUTIONS SHALL BE APPROVED IN WRITING BY OWNER (JOB SUPERINTENDENT)
 AND LANDSCAPE ARCHITECT. ANY UNAPPROVED EQUIPMENT SHALL BE REPLACED AT THE
 CONTRACTOR'S EXPENSE.
- 2. ALTERNATE ITEMS: APPROVAL OF ANY ITEM OR ALTERNATE ITEM INDICATES ONLY THAT IT APPARENTLY MEETS THE REQUIREMENTS OF THE DRAWINGS ON THE BASIS OF THE INFORMATION SUBMITTED, AND DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR THE EQUIPMENT'S SUCCESSFUL OPERATION.
- 3. CONTRACTOR'S GUARANTEE: MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF THIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES WILL ONLY SUPPLEMENT THE GUARANTEE.
- 4. SOLVENT WELD MAINLINE PIPE: PRESSURE MAINLINE PIPE SIZED 1-1/2" AND SMALLER SHALL BE IPS PRESSURE RATED PVC 1120 SCHEDULE 40 RATED PIPE. PRESSURE MAINLINE PIPE SIZED TWO INCHES (2") AND LARGER SHALL BE IPS PRESSURE RATED PVC 1120 SDR 13.5 315 PSI RATED PIPE PVC (CLASS 315) CONFORMING TO MATERIALS ASTM D1784 AND PRODUCT DESIGN ASTM D2214 FOR SDR 315 AND ASTM 1784 FOR SCHEDULE 40 PIPE, BURIED A MINIMUM OF EIGHTEEN INCHES (18") DEEP WITH SOLVENT WELD JOINTS MADE FROM NSF APPROVED, TYPE 1, GRADE 1 (PVC COMPOUND CONFORMING TO ASTM RESIN SPECIFICATION D1784).
- 5. LATERAL LINE PIPE: NON-PRESSURE BURIED LATERAL LINE PIPE SHALL BE PRESSURE RATED PVC 1120 SDR 21 200 PSI RATED PIPE CONFORMING TO MATERIALS ASTM D1784 AND PRODUCT DESIGN ASTM D2214 FOR SDR 21 PIPE 200 PSI RATED PIPE CONFORMING TO MATERIALS ASTM D1784 AND PRODUCTS DESIGN ASTM D2214 FOR SDR 21 PIPE 200, BURIED A MINIMUM OF 12" DEEP WITH SOLVENT WELD JOINTS MADE FROM NSF APPROVED TYPE 1, GRADE II PVC COMPOUND CONFORMING TO ASTM RESIN SPECIFICATION D1784.
- 6. GASKET SEAL MAINLINE PIPE: PRESSURE MAINLINE PIPE SIZED TWO INCHES (2") AND LARGER SHALL BE IPS PRESSURE RATED PVC 1120 SDR 21 200 PSI RATED PIPE, CONFORMING TO MATERIALS ASTM D1784, PRODUCT DESIGN ASTM D2214, GASKET JOINT ASTM DB139, GASKET ASTM F477, CELL CLASS ASTM 1245A, BURIED A MINIMUM OF EIGHTEEN INCHES (18") BELOW FINISH GRADE WITH THRUST BLOCKS PER MANUFACTURER'S INSTRUCTIONS.
- 7. SOLVENT CEMENT: SOLVENT PRIMER SHALL CONFORM TO ASTM D-2564. SOLVENT CEMENT SHALL CONFORM TO ASTM D2564
- SHALL CONFORM TO ASTM D2564.

 8. SOLVENT FITTINGS: SOLVENT FITTINGS SHALL BE SCHEDULE 40 PRODUCED FROM PVC TYPE 1 CELL CLASSIFICATION B2454—B.
- 9. THREADED FITTINGS: THREADED FITTINGS SHALL BE SCHEDULE 40 AND THREADED NIPPLES SHALL BE SCHEDULE 80, PRODUCED FROM PVC TYPE 1 CELL CLASSIFICATION 12454—B. USE PERMATEX #51/TEFLON TAPE OR APPROVED PIPE JOINT COMPOUND PER FITTINGS MANUFACTURER'S RECOMMENDATIONS.
- 10. STEEL PIPE: GALVANIZED STEEL PIPE SHALL BE ASA SCHEDULE 40 MILLED STEEL SCREWED PIPE WITH MEDIUM GALVANIZED SCREWED BEADED MALLEABLE IRON FITTINGS.

 11. STEEL PIPE BELOW GRADE: ALL GALVANIZED PIPE AND FITTINGS INSTALLED BELOW GRADE
- SHALL BE COATED WITH TWO (2) COATS OF KOPPERS #50 BITUMASTIC.

 12. BRASS PIPE AND FITTINGS: BRASS PIPE SHALL BE 85% RED BRASS, AMERICAN NATIONAL STANDARD INSTITUTE (ANSI), SCHEDULE 40 SCREWED PIPE. FITTINGS SHALL BE MEDIUM BRASS, SCREWED, 125 POUND CLASS.
- 13. COPPER PIPE AND FITTINGS: COPPER PIPE SHALL BE TYPE K, (HARD) ASTM B88 SOLDER FITTINGS IN ACCORDANCE WITH ANSI B16.22. SOLDER JOINTS SHALL BE 45% SILVER, 15% COPPER, 16% ZINC, 24% CADMIUM AND SOLIDUS AS 11250F AND LIQUIDS AT 11450F., CONFORMING TO ASTM B206 AND FS QQ-B-655C.
- 14. METAL PIPE JOINTS: ALL CONNECTIONS TO BE SEALED WITH PIPE JOINT COMPOUND FOR METAL JOINTS.
- 15. CONTROL WIRE: CONNECTIONS BETWEEN THE AUTOMATIC CONTROLLERS AND THE ELECTRIC CONTROL VALVES SHALL BE MADE WITH DIRECT BURIAL COPPER WIRE AWG—U.F. 600 VOLT UL APPROVED. MINIMUM SIZE IS #14 AWG, BURIED EIGHTEEN (18") INCHES BELOW GRADE. USE DIFFERENT COLOR CONTROL WIRE FOR EACH CONTROLLER. COMMON WIRES SHALL BE WHITE OR A DIFFERENT COLOR FROM THE CONTROL WIRES FOR EACH OF AUTOMATIC CONTROLLER ON THE SITE.
- 16. WIRE TRENCH: WIRING SHALL OCCUPY THE SAME TRENCH AND SHALL BE INSTALLED ALONG THE SAME ROUTE AS PRESSURE SUPPLY OR LATERAL LINES WHEREVER POSSIBLE. THE WIRES SHALL BE TAPED TOGETHER AT INTERVALS NOT EXCEEDING TEN (10) FEET.
- 17. EXPANSION CURL: A TWELVE INCH (12") EXPANSION CURL SHOULD BE PROVIDED WITHIN THREE (3) FEET OF EACH WIRE CONNECTION AND AT LEAST EVERY ONE HUNDRED (100) FEET OF WIRE LENGTH. AT STREET CROSSINGS AND GATE VALVE LOCATIONS THE CONTRACTOR SHALL BRING ALL THE WIRES TO GRADE AND PROVIDE A 12" EXPANSION CURL COVERED BY A RECTANGULAR VALVE BOX MARKED 'IRRIGATION WIRE'.
- 18. WIRE SPLICES: ALL SPLICES SHALL BE MADE WITH SCOTCH—LOK #3577 CONNECTOR SEALING PACKS, PEN—TITE WIRE CONNECTOR, OR APPROVED EQUAL. USE ONE SPLICE PER CONNECTOR. ALL SPLICES SHALL BE MADE AT VALVES OR CONTROLLER. NO OTHER SPLICES WILL BE ALLOWED UNLESS APPROVED BY THE OWNER (JOB SUPERINTENDENT). ALL SPLICES NOT AT VALVES, SHALL BE MADE IN A RECTANGULAR VALVE BOX MARKED 'IRRIGATION WIRE'
- 19. TRENCHES: DIG TRENCHES STRAIGHT AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM OF TRENCH. LAY PIPE TO AN EVEN GRADE.
- 20. BACKFILL: THE TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE PERFORMED. TRENCHES SHALL BE CAREFULLY BACKFILLED WITH APPROVED MATERIALS, FREE FROM CLODS OF EARTH OR STONES TWO INCHES (2") OR LARGER. BACKFILL SHALL BE MECHANICALLY COMPACTED TO A DRY DENSITY EQUAL TO ADJACENT UNDISTURBED SOIL AND SHALL CONFORM TO ADJACENT SURFACE GRADES WITHOUT IRREGULARITIES.
- 21. LINES UNDER PAVING: ALL IRRIGATION LINES, VALVES AND WIRING RUNS SHOWN ON PLANS IN THE STREET, PAVED AREAS AND UNDER HARDSCAPING ARE DIAGRAMMATIC. INSTALL THESE LINES, VALVES AND WIRING RUNS IN PLANTING AREAS EXCEPT WHERE IT IS OBVIOUS THAT THEY MUST CROSS THAT PAVED AREA TO GET FROM ONE PLANTING AREA TO ANOTHER OR UNLESS NOTED OTHERWISE.
- 22. STREETS: WHERE ANY CUTTING OR BREAKING OF CONCRETE OR OTHER PAVING SURFACE IS NECESSARY, IT SHALL BE DONE AND REPLACED TO MATCH THE EXISTING WORK TO THE OWNER'S (JOB SUPERINTENDENT'S) SATISFACTION, BY THE CONTRACTOR, AS PART OF THE CONTRACT COST.
- 23. SLEEVES: SLEEVES SHALL BE INSTALLED UNDER ALL STREETS AND PAVEMENT WIDER THAN SEVEN FEET (7') PER THE IRRIGATION PLAN. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVES WITH THE OWNER (JOB SUPERINTENDENT) PRIOR TO THE PAVING BEING INSTALLED.
 24. SLEEVE/PIPE COVER: ALL WIRE, PRESSURE AND NON-PRESSURE PIPE INSTALLED UNDER
- ASPHALTIC CONCRETE PAVING SHALL BE INSTALLED IN CLASS 315 PVC SLEEVES BURIED TWENTY—FOUR INCHES (24") BELOW THE ROAD BED AND BACKFILLED PER STRUCTURAL SOILS REPORT SPECIFICATIONS.

 25. PIPE CLEARANCE: ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF SIX INCHES (6") FROM
- EACH OTHER. PARALLEL LINES SHALL NOT BE INSTALLED DIRECTLY OVER ONE ANOTHER.

 26. CONTROL VALVES: INSTALL EACH CONTROL VALVE IN A SEPARATE LOCKING VALVE BOX WITH A MINIMUM OF TWELVE INCHES (12") BETWEEN VALVE BOXES, AND A MINIMUM OF SIX
- 27. HEAD INSTALLATION: IRRIGATION HEADS SHALL BE INSTALLED ONLY AFTER THE SYSTEM HAS BEEN FLUSHED TO THE COMPLETE SATISFACTION OF THE OWNER (JOB SUPERINTENDENT). 28. HEAD SPACING: SPACING OF HEADS SHALL NOT EXCEED THE MAXIMUM INDICATED ON THE

INCHES (6") BETWEEN VALVE BOXES AND ANY WALK OR STRUCTURE.

- 28. HEAD SPACING: SPACING OF HEADS SHALL NOT EXCEED THE MAXIMUM INDICATED ON THE DRAWINGS. IN NO CASE SHALL THE SPACING EXCEED THE MAXIMUM RECOMMENDED BY THE MANUFACTURER.
- 29. INSTALLATION ANGLE OF IRRIGATION HEAD: ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADES UNLESS OTHERWISE DESIGNATED ON THE PLANS.
- 30. PIPE ON GRADE: ALL PIPE ON GRADE SHALL BE SECURED TO SLOPE SURFACES AT 10'
 O.C. AND TO FLAT AREAS AT 20' O.C. MAXIMUM WITH #4 X 24" REBAR WITH 'J' HOOKED
 RADIUS AT ONE END TO HOLD PIPE SECURELY IN PLACE.
 31. IRRIGATION SYSTEM REQUIREMENTS PRIOR TO PLANTING: THE ENTIRE SPRINKLER IRRIGATION
- SYSTEM SYSTEM REQUIREMENTS PRIOR TO PLANTING: THE ENTIRE SPRINKLER TRRIGATION SYSTEM SHALL BE UNDER FULL AUTOMATIC OPERATION PRIOR TO THE START OF ANY PLANTING WORK AND AN IRRIGATION COVERAGE TEST SHALL ALSO BE PERFORMED BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF ANY PLANTING.



BENCH MARK

DESCRIPTON:

LOCATION:

VALLEY-WIDE RECREATION AND PARK DISTRICT

DEPARTMENT

ACCEPTANCE

DATE

1-20-23

HORIZONTAL DATUM:

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN

SHALL MEET THE LATEST EMWD AND V.W.R.P.D. STANDARDS AND SPECIFICATIONS. IF

CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE

ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOXES AND LIDS SHALL BE PURPLE PER

INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK"

IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND

"PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL

EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED

THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY

STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

INSTALLATION NOTES

COLOR CODING

HAVE PURPLE CAPS.

| ACCEPTED BY:
| EASTERN MUNICIPAL WATER DISTRICT
John Wreth	1/23/23	
SENIOR CIVIL ENGINEER	DATE	
DEPARTMENT	ACCEPTANCE	DATE
NEW BUSINESS P.C.	3etu Aman	1/23/23
OPERATIONS	Darid Wreth	1/23/23
ENGINEERING		
EMWD	POS ENGINEER	

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
RECYCLED WATER IRRIGATION RETROFIT
IMPROVEMENTS
POC #28
IRRIGATION SPECIFICATIONS

VALLEY-WIDE RECREATION AND PARK DISTRICT

RECYCLED WATER RETROFIT PLAN POC # 67 (POURROY FIELDS) CITY OF WINCHESTER, CALIFORNIA

EMWD STANDARD RECYCLED WATER IRRIGATION PLAN NOTES

- 1. THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EMWD RECYCLED WATER IRRIGATION GUIDELINES, AND EMWD STANDARDS AND SPECIFICATIONS.
- 2. THE USE OF RECYCLED WATER SHALL ADHERE TO CDPH TITLE 22, DIVISION 4, CHAPTER 3 OF THE CALIFORNIA CODE OF REGULATIONS AND THE CURRENT RULES, ORDINANCES, REGULATIONS OF
- 3. EMWD REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EMWD FIELD ENGINEERING DEPARTMENT AT (951) 928-3777 EXTENSION 4830.
- 4. THE EASTERN MUNICIPAL WATER DISTRICT OPERATION DEPARTMENT SHALL BE NOTIFIED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AT (951) 679-3222. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND
- WHEN POTABLE WATER IS ONSITE, THE CDPH TITLE 22 REQUIRES A CROSS CONNECTION SHUTDOWN TEST TO PRECEDE THE FINAL RELEASE OF THE IRRIGATION SYSTEM. THIS TEST WILL BE CONDUCTED BY EMWD.
- 6. THE RECYCLED WATER IRRIGATION PLAN IS A "LIVING" DOCUMENT OF RECORD THAT SHALL BE UPDATED IF THE PROJECT CONDITIONS, THE SITE PLAN, FACILITIES, IRRIGATED AREA, IRRIGATION DEMAND, OR DATA RELATIVE TO THE SITE CHANGES ONCE IT VARIES FROM THE ACCEPTED PLAN. DELTA REVISIONS OF THE PLAN SHALL BE AS DEEMED NECESSARY BY EMWD TO MAINTAIN ACCURATE DOCUMENT RECORDS OF THE PROJECT SITE AND LANDSCAPE IRRIGATION INSTALLATION.
- ANY PROPOSED CHANGES TO A SYSTEM DURING CONSTRUCTION MUST BE SUBMITTED TO EMWD FOR AUTHORIZATION OF THE CHANGES PRIOR TO THE CHANGE BEING MADE IN THE FIELD.
- UPON FINAL ACCEPTANCE OF AN IRRIGATION SYSTEM ANY FUTURE MODIFICATIONS MUST BE APPROVED THROUGH EMWD PRIOR TO THE START OF CONSTRUCTION.
- 9. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS, ANY WATER WELLS AND/OR WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE
- 10. DURING CONSTRUCTION, ALL RECYCLED IRRIGATION SYSTEMS SHALL BE CONNECTED TO A TEMPORARY POTABLE WATER SOURCE AT A T-METER CONNECTION TO A PUBLIC FIRE HYDRANT AS APPROVED BY EMWD. THIS CONNECTION WILL SERVE THE IRRIGATION SYSTEM WITH POTABLE WATER UNTIL THE METER IS RELEASED AT PROJECT APPROVAL. ALL TEMPORARY POTABLE CONNECTIONS FOR CONSTRUCTION OR IRRIGATION MUST BE HI-LINED THROUGH A T-METER AND AN APPROVED ABOVE GROUND REDUCED PRESSURE (RP) PRINCIPAL BACKFLOW DEVICE WITHIN 3 FEET OF METER. NO PURPLE COLORED PIPING OR APPURTENANCES SHALL BE CONNECTED TO ANY POTABLE WATER SOURCE.
- 11. REDUCED PRESSURE (RP) PRINCIPAL BACKFLOW DEVICES MUST BE APPROVED AND TESTED BY AN EMWD APPROVED BACKFLOW TESTER (A LIST OF APPROVED TESTERS ARE AVAILABLE UPON
- 12. CROSS CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED. FINES MAY BE LEVIED.
- 13. INTERCONNECTION OF IRRIGATION PRESSURE SUPPLY MAINLINES ORIGINATING FROM MORE THAN ONE METER IS STRICTLY PROHIBITED.
- 14. NO PONDING, RUNOFF OR OVERSPRAY IS PERMITTED. ADJUST ALL SPRINKLER HEADS TO MINIMIZE OVERSPRAY ONTO SIDEWALKS, STREETS, DRINKING FOUNTAINS, DECORATIVE FOUNTAINS, COMFORT STATIONS, PLAYGROUND EQUIPMENT, PICNIC TABLES, BBQ, PRIVATE LOTS, POTABLE WATER AREAS AND EQUIPMENT, FOOD PREPARATION, OUTDOOR EATING AREAS, OR NON-DESIGNATED USE AREAS MUST NOT BE SUBJECTED TO RECYCLED WATER OVERSPRAY, WINDBLOWN SPRAY, RUNOFF, PONDING, OR UNAUTHORIZED USE. LACK OF PREVENTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE, OR SYSTEM OPERATION, IS STRICTLY PROHIBITED.
- 15. HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER SYSTEMS. POTABLE QUICK COUPLERS ARE NOT ALLOWED WITHIN THE RECYCLED WATER IRRIGATED AREA.
- 16. QUICK COUPLING VALVES SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER USE WITH BRASS CONSTRUCTION, A SPECIAL QUICK COUPLER KEY WITH AN ACME THREAD FOR OPENING AND CLOSING THE VALVE. QUICK COUPLER VALVES CANNOT BE LOCATED WITHIN 50 FEET OF FOOD PREPARATION, OUTDOOR EATING AREAS, OR DESIGNATED CHILDREN PLAY EQUIPMENT OR WITHIN THE FENCED PERIMETER SURROUNDING SWIMMING POOLS.
- 17. ALL NEW ON-SITE RECYCLED WATER PIPING INSTALLED ON THIS PROJECT SHALL BE PURPLE IN COLOR, PANTONE 522C AND IDENTIFIED IN ACCORDANCE WITH THE CURRENT CDPH GUIDELINES AND EASTERN MUNICIPAL WATER DISTRICTS STANDARDS AND SPECIFICATIONS.
- 18. WARNING TAPE FOR THE RECYCLED WATER PIPING SHALL BE PURPLE IN COLOR, PANTONE 522C, WITH THE WORDS "CAUTION: RECYCLED WATER" IMPRINTED IN MINIMUM 1 INCH HIGH LETTERS. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT. THE WARNING TAPE SHALL BE INSTALLED CONTINUOUSLY ABOVE THE NEW RECYCLED WATER IRRIGATION MAINLINE.
- 19. WARNING SIGNS AND LABELS SHALL READ "CAUTION: RECYCLED WATER DO NOT DRINK" AND INCLUDE THE INTERNATIONAL SYMBOL FOR DO NOT DRINK. THE LOCATION FOR WARNING SIGNS SHALL BE AS CALLED OUT ON THE PLANS AND AT BOTH SIDES OF ALL DRIVEWAY AND WALKWAY ENTRANCES, AT RECYCLED WATER METERS AND POSTED EVERY 500' ALONG THE RECYCLED WATER USE SITE PERIMETER. FINAL FIELD LOCATIONS SHALL BE AS DIRECTED BY THE DISTRICT REPRESENTATIVE.

BENCH MARK

DESCRIPTON:

LOCATION:

VERTICAL DATUM

DIG ALERT

Call: TOLL FREE

1-800-227-2600

TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

- 20. EACH AUTOMATIC CONTROLLER AND ITS ASSOCIATED EQUIPMENT SHALL BE IDENTIFIED WITH A SIGN BEARING THE WORDS "CAUTION: RECYCLED WATER DO NOT DRINK". WITH LETTERS AT LEAST 1 INCH HIGH ON A PURPLE BACKGROUND AND WITH A "DO NOT DRINK" SYMBOL SIGN. THE SIGNS SHALL BE PLACED AS TO BE READILY SEEN BY ANY OPERATIONS PERSONNEL UTILIZING
- 21. SIGNS OR DECALS WITH "RECYCLED WATER, DO NOT DRINK" AND THE DO NOT DRINK SYMBOL MUST BE POSTED ON PUMP CABINETS, AND ALL ENCLOSURES.
- 22. RECYCLED WATER SPRINKLERS / SPRAY HEADS MUST HAVE PURPLE CAPS, PURPLE COLLARS, AND THE RISERS HAVE A RECYCLED WATER DECAL. LARGE THROW HEADS MUST HAVE PURPLE INSERTS. PURPLE CAPS AND COLLARS MUST BE FIRMLY AFFIXED TO SPRINKLER HEADS. ALL OTHER ABOVE GROUND EQUIPMENTS MUST BE COLORED PURPLE OR HAVE A "RECYCLED WATER, DO NOT DRINK" DECAL OR SIGN.
- 23. ALL AUTOMATIC CONTROLLERS MUST BE SET TO OPERATE BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. UNLESS OTHERWISE PERMITTED BY EMWD.
- 24. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC.

IN CASE OF EMERGENCY, CONTACT <u>GREG ODEN</u> AT (951) 654-1505 OR AFTER HOURS,

CONTACT <u>GREG ODEN</u> AT (951) 306-5016

- 25. AN ON-SITE USER/SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY. WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS CONNECTION PROTECTION, THE RECYCLED PURVEYOR'S RULES AND REGULATIONS, AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. SAID PERSON IS REQUIRED TO PROVIDE A 24 HOUR CONTACT PHONE NUMBER AND ATTEND APPROVED SITE SUPERVISOR CLASS. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO EASTERN MUNICIPAL WATER DISTRICT.
- AND COULD RESULT IN SUSPENSION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS

LANDSCAPE MAINTENANCE RESPONSIBILITY NOTE

IT SHALL BE THE RESPONSIBILITY OF: VALLEY-WIDE RECREATION AND PARK DISTRICT TO MAINTAIN ALL ON SITE RECYCLED WATER IRRIGATION IN ACCORDANCE WITH EMWD ORDINANCE 68 LATEST EDITION.

EMWD TIME LIMITATION NOTE

THE TIME LIMIT ON DRAWING APPROVAL SHALL BE SIX (6) MONTHS FROM THE DATE OF PLAN APPROVAL, IF CONSTRUCTION HAS NOT COMMENCED WITHIN THE STATED TIME, EMWD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DESIGN ENGINEER AND/OR ARCHITECT AND RESUBMITTED TO EMWD FOR POSSIBLE CHANGES IN MASTER PLANNED FACILITIES, SPECIFICATIONS AND

EMWD STANDARD NOTE

THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EASTERN MUNICIPAL WATER DISTRICT STANDARDS AND SPECIFICATIONS.

- . ALL IRRIGATION RISERS, DRIP LINE, AND COMPONENTS THAT ARE NOT AVAILABLE FROM THE MANUFACTURE WITH PURPLE RECYCLED WATER IDENTIFICATION SHALL BE LABELED WITH RECYCLED WATER DECALS OR STICKERS.
- 2. ALL IRRIGATION COMPONENTS AND VALVES MUST HAVE A RECYCLED WATER ID TAG AND A VALVE ID TAG IN A VALVE BOX WITH A PURPLE LID. THE PURPLE LID SHALL BE HEAT BRANDED WITH THE VALVE
- 3. ROTOR HEADS MAY BE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE

THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE MUST;

1. BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES AND FIRE LINES.

2. BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE LOCATED UNDER ALL POTABLE

WATERLINES AND FIRE LINES. 3. WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE

WATERLINE, A 4" (INCH) MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM) WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

IRRIGATION NOTES

- 1. CONTRACTOR SHALL CAREFULLY PERFORM WORK TO INSURE THAT NO SERVICE INTERRUPTION OF DOMESTIC WATER OCCURS DURING OPERATION HOURS. CONTRACTOR SHALL NOTIFY THE DISTRICT 24 HOURS PRIOR TO ANY SCHEDULED SHUTDOWN OF DOMESTIC OR IRRIGATION WATER.
- 2. IRRIGATION WATER SUPPLY SHALL NOT BE TERMINATED FOR ANY PERIOD LONGER THAN 24 HOURS. IN THE EVENT THAT WATER IS TERMINATED LONGER THAN 24 HOURS, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO ANY LANDSCAPE RELATED TO
- 3. CONTRACTOR SHALL DISCONNECT AND CAP ALL EXISTING MAINLINE AT LOCATIONS AS SHOWN ON THE PLANS. ALL FITTINGS (INCLUDING CAPS) 3" AND SMALLER SHALL BE SCH 80 PVC AND ALL FITTINGS LARGER THAN 3" SHALL BE LEEMCO IRON DUCTILE RESTRAINTS.
- 4. ALL NEW WORK SHALL COMPLY WITH CURRENT DISTRICT STANDARDS AND SPECIFICATIONS. 5. ALL NEW PRESSURE LINE PIPING SHALL BE PRESSURE TESTED PER EMWD REQUIREMENTS BEFORE CONNECTING TO ANY EXISTING MAINLINE. ANY EXISTING MAINLINE WILL NOT BE
- REQUIRED TO BE PRESSURED TESTED 6. CONTRACTOR SHALL SLEEVE ALL EXISTING POTABLE PRESSURE LINE PIPING WITHIN 4 FEET OF ANY NEW RECYCLED WATER LINE AS REQUIRED BY EMWD. LOCATIONS OF DOMESTIC WATER PIPING IS SHOWN ON PLANS TO BE THE BEST KNOWLEDGE OF EMWD. IN THE EVENT ANY DISCREPANCY BETWEEN FIELD CONDITIONS AND PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SEPARATIONS SLEEVING AS REQUIRED BY EMWD WITHOUT ADDITIONAL COMPENSATION.
- 7. ALL EXISTING VALVE BOXES THAT ARE UNEVEN, OUT OF PLUMB, ABOVE OR BELOW GRADE SHALL BE ADJUSTED TO GRADE PER DISTRICT DETAILS.
- 8. ALL NEW VALVES AND PIPING SHALL BE MEASURED AND AS-BUILT PER EMWD REQUIREMENTS PRIOR TO BACKFILLING. ALL EXISTING PIPING LOCATED DURING
- CONSTRUCTION SHALL BE IDENTIFIED, MEASURED AND INCLUDED WITH THE AS-BUILTS. 9. ALL NEW PURPLE VALVE BOX LID SHALL BE HEAT BRANDED TO INDICATE THE
- CORRESPONDING CONTROLLER AND STATION NUMBER PER DISTRICT DETAIL. 10.INSTALL PURPLE CAPS FOR ALL SPRAY HEADS AND ROTORS THAT ARE CONNECTED TO
- RECYCLED WATER SYSTEM. 11.CONTRACTOR TO LOCATE AND REDLINE (DOCUMENT) ALL POTABLE AND FIRE WATER LINE
- ON-SITE FACILITIES WITHIN CLOSE PROXIMITY OF NEW RECYCLED WATER LINES. 12.ALL WORK SHALL CONFORM TO FASTERN MUNICIPAL WATER DISTRICT'S CURRENT
- STANDARDS, SPECIFICATIONS AND GUIDELINES FOR RECYCLED WATER. 13.IN THE EVENT OF ANY DISCREPANCY BETWEEN PLANS AND EMWD STANDARD GUIDELINES / SPECIFICATIONS. THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER PLANS AS
- DETERMINED BY THE DISTRICT. 14.CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO ANY DIGGING
- AND SHALL BE RESPONSIBLE FOR ANY DAMAGED UTILITIES. 15.CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING AND OR REPLACING ANY DAMAGE TO EXISTING LANDSCAPE AND IRRIGATION REQUIRED TO RETROFIT PROJECT TO
- RECYCLED WATER. 16.CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIM / HERSELF WITH EXISTING SITE
- CONDITIONS PRIOR TO SUBMITTAL OF BID. 17.IF FIELD CONDITIONS ARE DIFFERENT FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER'S AUTHORIZED REPRESENTATIVE
- PRIOR TO CONTINUING WITH SITE IMPROVEMENTS. 18.ANY COMPONENTS OF THE IRRIGATION SYSTEM WHICH ARE REPLACED / REPAIRED MUST BE REPLACED WITH PURPLE RECYCLED WATER COMPONENTS PER EMWD STANDARDS.
- 19. ALL WORK MUST CONFORM TO VALLEY-WIDE RECREATION AND PARK DISTRICT STANDARDS AND SPECIFICATIONS. IN THE EVENT OF ANY CONFLICT BETWEEN STANDARDS, THE MORE STRINGENT STANDARD SHALL PREVAIL, UNLESS OTHERWISE APPROVED BY BOTH EMWD AND VALLEY-WIDE.

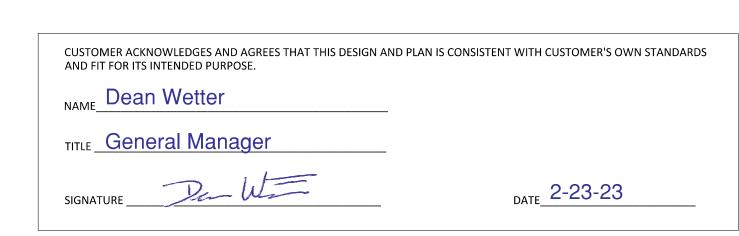
SHEET INDEX

- **COVER SHEET**
- 2 INDEX MAP 3 INDEX MAP
- 4 IRRIGATION PLAN
- **5 IRRIGATION PLAN**
- **6 IRRIGATION PLAN**
- 7 IRRIGATION PLAN
- **8 IRRIGATION DETAILS**
- 9 IRRIGATION DETAILS 10 IRRIGATION SPECIFICATIONS

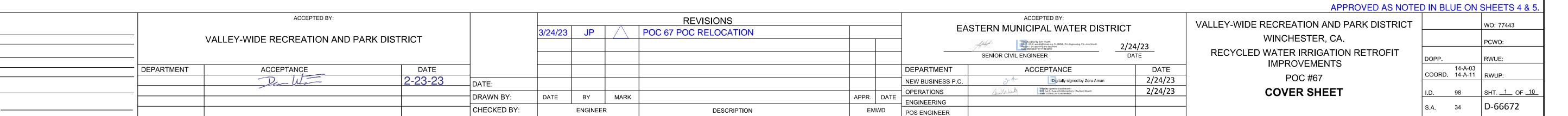
HOLD HARMLESS AND INDEMNIFICATION CLAUSE

CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, THE CSA, COUNTY OF LOCAL JURISDICTION, THE CITY OF WINCHESTER. VALLEY-WIDE RECREATION AND PARK DISTRICT AND EASTERN MUNICIPAL WATER DISTRICT HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE CSA, AND COUNTY OF LOCAL JURISDICTION.

EXISTING POTABLE IRRIGATION DATA TABLE							
EXISTING POTABLE METER	EXISTING P.O.C.	SERVICE ORDER	HISTORICAL	EXISTING POTABL			
LOCATION	DESIGNATION	(SO) NUMBER	USAGE (AF/Y)	METER SIZE (IN)			
POURROY RD.	67	213226	14.39	2			
POURROY RD.	68	208720	0.61	2			
		TOTAL	15.00				



RECYCLI	ED METE	R INFOR	MATION TA	ABLE			
POC ID	POC STA.	DWG#	IRRIGATED AREA (SF)	DEMAND (GPM)	ANNUAL USAGE ACRE FEET	LATERAL SIZE (IN.)	METER SIZE (IN.)
POC #67	68+55	D-60496	382,500	120	15.0	4"	2"
_		ΤΩΤΔΙ	382,500	120	15.0		



EMWD STANDARD NOTE

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THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EASTERN MUNICIPAL WATER DISTRICT STANDARDS AND SPECIFICATIONS FOR DEVELOPER'S PROJECTS.

 HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER IRRIGATION SYSTEMS. POTABLE QUICK COUPLERS ARE NOT ALLOWED WITHIN THE RECYCLED WATER IRRIGATION AREA.

COLOR CODING NOTES

• ALL IRRIGATION EMISSION DEVICES, SUCH AS SPRAY HEADS, ROTORS, BUBBLERS, DRIP EMITTERS, OR DRIP ASSEMBLIES SHALL BE IDENTIFIED WITH PURPLE IDENTIFICATION BODIES, COLLARS, CAPS, CONNECTORS, ADAPTERS, ETC. TO PERMANENTLY LABEL THE COMPONENTS AS EMITTING RECYCLED IRRIGATION WATER. THE PURPLE IDENTIFICATION SHALL BE EXPOSED TO THE SURFACE.

 ALL IRRIGATION RISERS, DRIP LINE, AND COMPONENTS THAT ARE NOT. AVAILABLE FROM THE MANUFACTURE WITH PURPLE RECYCLED WATER IDENTIFICATION SHALL BE LABELED WITH RECYCLED WATER DECALS OR STICKERS.

 ALL IRRIGATION COMPONENTS AND VALVES MUST HAVE A RECYCLED WATER ID TAG AND A VALVE ID TAG IN A PURPLE VALVE BOX WITH A PURPLE LID. THE PURPLE LID SHALL BE HEAT BRANDED WITH THE VALVE LABEL.

FOR NEW PROPOSE PIPE INSTALLATION:

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE

 BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES AND FIRE LINES.

 BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE LOCATED UNDER ALL POTABLE WATERLINES AND FIRE LINES. WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A 4" (INCH) MINIMUM VERTICAL

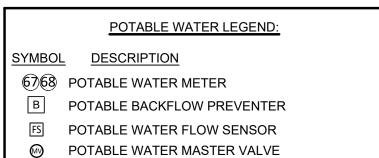
CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM) WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

PROPOSED RECYCLED WATER IRRIGATION LEGEND: YMBOL DESCRIPTION 67 RECYCLED IRRIGATION WATER METER RECYCLED IRRIGATION MASTER VALVE FS RECYCLED IRRIGATION FLOW SENSOR RECYCLED IRRIGATION BOOSTER PUMP RECYCLED WATER SIGNAGE RECYCLED IRRIGATION BALL VALVE

EXIS	STING RECYCLED WATER IRRIGATION LEGEN
SYMBOL	DESCRIPTION
H	RECYCLED ISOLATION VALVE
left	RECYCLED QUICK COUPLER VALVE
\bigoplus	RECYCLED REMOTE CONTROL VALVE
\triangle	RECYCLED IRRIGATION CONTROLLER

RECYCLED IRRIGATION MAINLINE

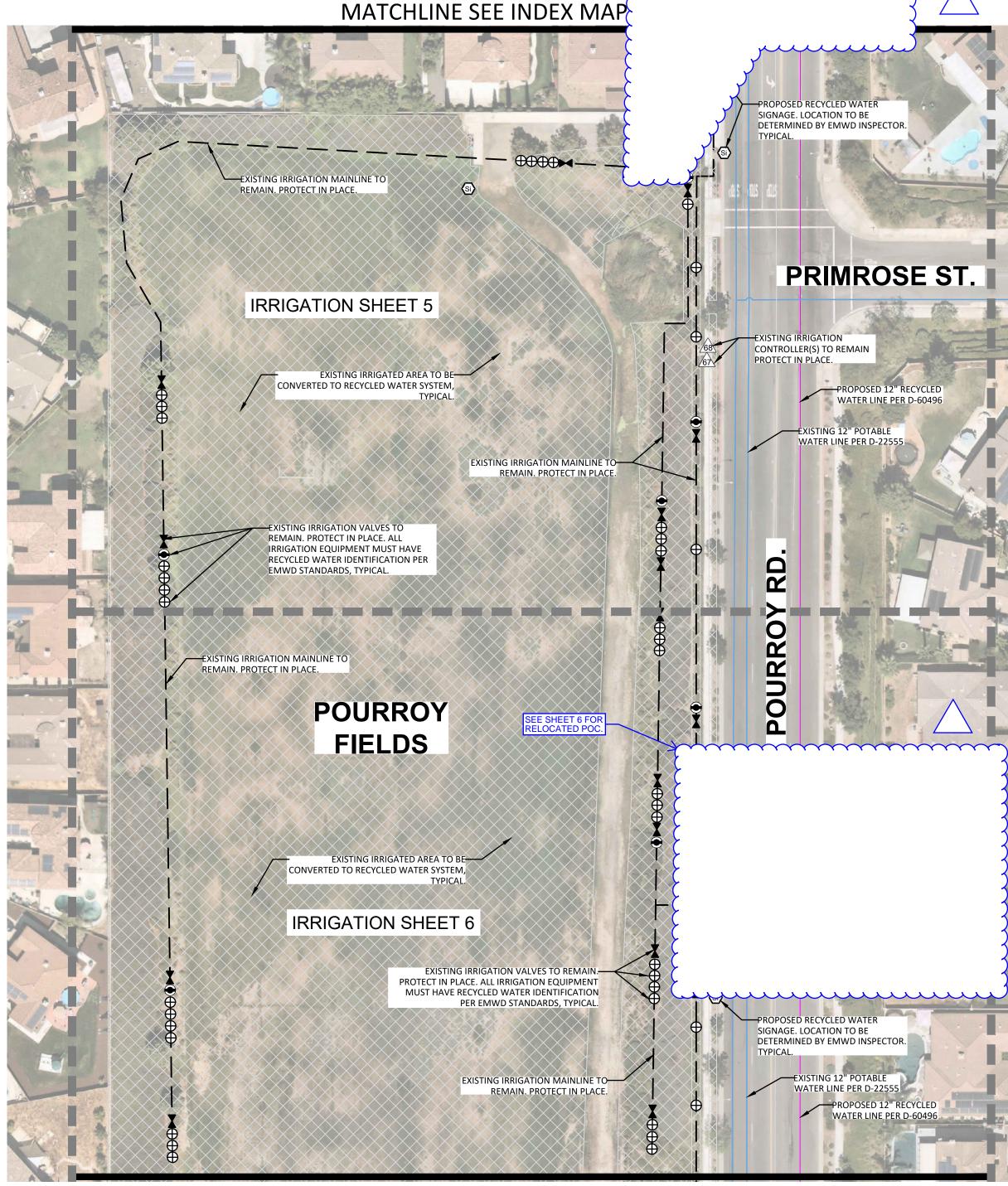
----- IRRIGATION MAINLINE





VALVE BOX NOTE:

- 1. CONTRACTOR TO REPLACE EXISTING LIDS OF IRRIGATION VALVE BOXES. VALVE BOX LID SHALL BE PURPLE AND HEAT BRANDED WITH REMOTE CONTROL VALVE STATION AND COMPONENT
- 2. CONTRACTOR TO ADJUST EXISTING VALVE BOXES TO GRADE PER VALLEY-WIDE STANDARD AND INSTALL RECYCLED WATER ID TAG.
- 3. ALL DAMAGED VALVE BOXES SHALL BE REPLACED WITH NEW PURPLE COLOR VALVE BOXES AND HEAT BRANDED LID AND INSTALL RECYCLED WATER ID TAG WITHIN EACH BOX.



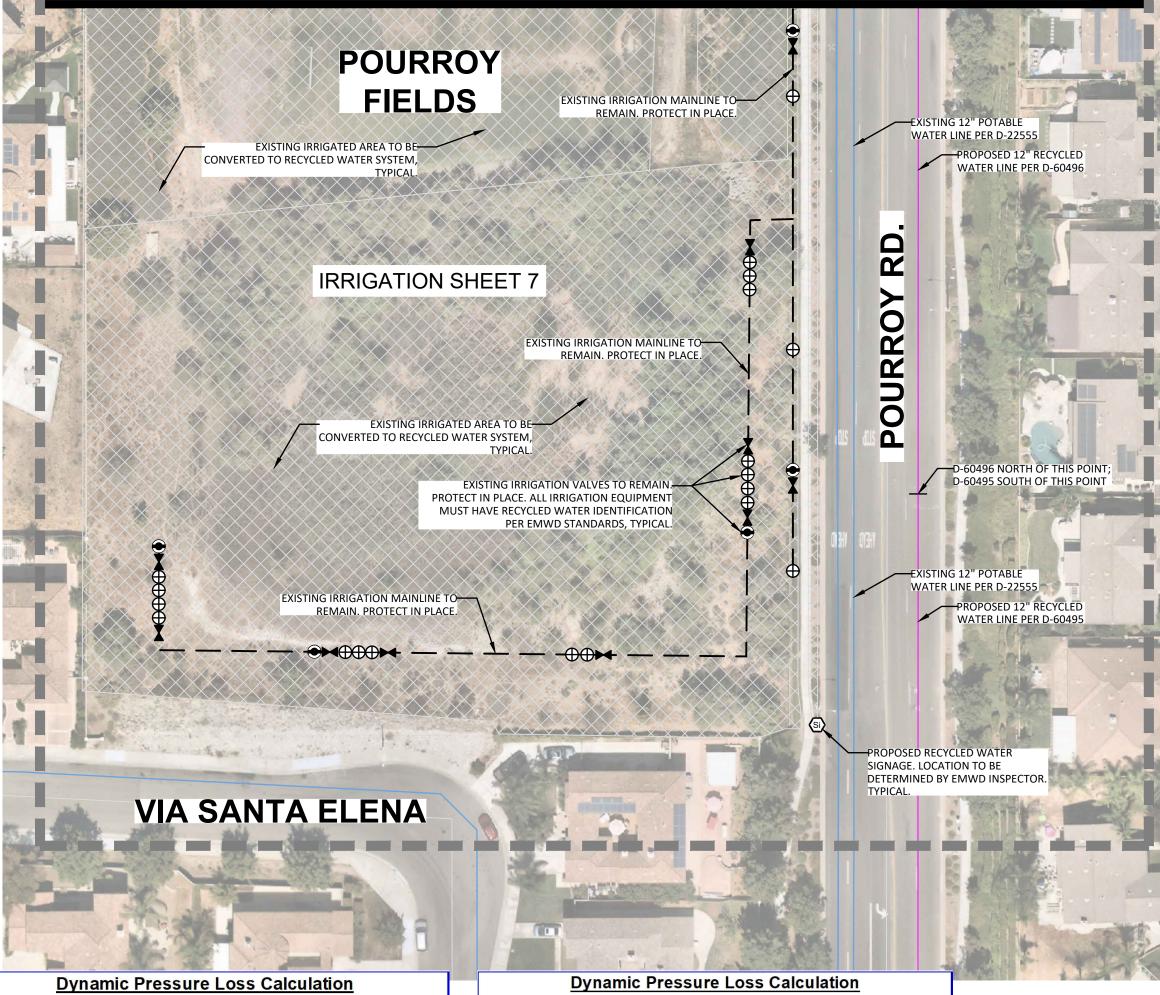
MATCHLINE SEE TOP RIGHT

BARRETT ENGINEERED PUMPS

SPECIALISTS IN PUMPS AND PUMPING SYSTEMS PROJECT: VALLEY WIDE - POURROY FIELDS

SYSTEM DESIGN DARAMETERS_ DOC #67

SYSTEM DESIGN PARAMETERS – POC #67							
IBPCO-10-2-3	/VFD-F	120 GPM 90 PS		SI	3 INCH		
System Model Numb	er	System Design Flow Rate	Syster	n DesignPressure	System Piping Size		
48 PSI		230 VAC	230 VAC		1 PHASE 60 Hz		
Minimum Suction Pro	essure	System Electrical Voltage		System Electrical Phase and Frequency			
PACO 1570-5	SS	120 GPM		150 FEET			
Pump Model Number		Pump Capacity (GPM)		Pump Total Head	(Feet)		
10 HP	3500 RPM	45 AMPS @ 230/1 ph					
Pump Horsepower	Pump RPM	System Full Load Amperage	;				



MATCHLINE SEE BELOW LEFT

VALLEY-WIDE RECREATION AND PARK DISTRICT POURROY FIELDS, WINCHESTER, CA Project Name: 67 / POC #67 Water Meter / POC No.: Domestic / Recycled: 1,380 ft. POC Elevation: 1,490 ft. Static Pressure: EMWD (951) 928-3777 October 22, 2022 A-3 (HIGHEST FLOW VALVE ON POC #67) 85.2 gpm Valve Flow Rate: Highest Elevation Served: 1,385 ft.

Equipment	s	ize	Flow	Length / Qty.	PSI Loss		
Water Meter	2	in.	120 gpm	N/A	11.3 psi		
Basket Strainer	2	in.	120 gpm	N/A	2.0 psi		
Mainline (PVC)	4	in.	120 gpm	43 ft.	0.1 psi		
Mainline (PVC)	3	in.	86 gpm	780 ft.	6.1 psi		
Master Valve	2	in.	120 gpm	N/A	4.6 psi		
Flow Meter	2	in.	120 gpm	N/A	0.2 psi		
Gate Valve	4	in.	120 gpm	5	1.0 psi		
Remote Control Valve	2	in.	85.2 gpm	N/A	4.5 psi		
Lateral Line	VA	RIES	VARIES	VARIES	4.0 psi		
Fittings (Estimate 10%)	N	N/A	N/A	N/A	3.4 psi		
			Elev	ation Change	2.2 psi		
	Pressure Req. to Operate Heads						
			Total Pres	sure Required	89.4 psi		
			Booster Pump	Design Boost	60.0 psi		

Available Residual Pressure 18.2 psi

ACCEPTED BY:

ACCEPTANCE

Zeru Aman

David Wuerth

nent wante.	THELE I WIDE REGRESSION TO THE PROPERTY OF THE						
roject Name:	POURROY FIELDS, WINCHESTER, CA						
Vater Meter / POC No.:	CONTROLLER 66						
omestic / Recycled:	RECYCLED						
OC Elevation:	1,380 ft.						
GL:	1,490 ft.						
tatic Pressure:	48 psi						
/ater Source & Phone #:	EMWD (951) 928-3777						
ate:	January 28, 2023						
alve Station No.:	A-X (HIGHEST	FLOW VALVE	ON POC #66)				
alve Flow Rate:	20.0 gpm						
	1,385 ft.						
ighest Elevation Served:	1,385 ft.						
ighest Elevation Served:	1,385 ft.						
ighest Elevation Served: Equipment	1,385 ft. Size	Flow	Length / Qty.	PSI Loss			
		Flow	Length / Qty.	PSI Loss			
Equipment	Size						
Equipment Vater Meter	Size	120 gpm	N/A	11.3 psi			
Equipment Vater Meter asket Strainer	Size 2 in. 2 in.	120 gpm 120 gpm	N/A N/A	11.3 psi 2.0 psi			
Equipment Vater Meter Sasket Strainer Sainline (PVC)	Size 2 in. 2 in. 4 in.	120 gpm 120 gpm 120 gpm	N/A N/A 43 ft.	11.3 psi 2.0 psi 0.1 psi			
Equipment Vater Meter Sasket Strainer Sainline (PVC)	Size 2 in. 2 in. 4 in. 3 in.	120 gpm 120 gpm 120 gpm 100 gpm	N/A N/A 43 ft. 500 ft.	11.3 psi 2.0 psi 0.1 psi 5.3 psi			
Equipment Vater Meter Sasket Strainer Sainline (PVC) Sainline (PVC)	Size 2 in. 2 in. 4 in. 3 in. 1 1/4 in.	120 gpm 120 gpm 120 gpm 100 gpm 20 gpm	N/A N/A 43 ft. 500 ft.	11.3 psi 2.0 psi 0.1 psi 5.3 psi 11.7 psi			

Lateral Line

2/24/23

DATE

2/24/23

2/24/23

VALLEY-WIDE RECREATION AND PARK DISTRICT

1 1/2 in. 20.0 gpm VARIES **VARIES** VARIES N/A Fittings (Estimate 10%) N/A N/A 4.4 psi **Elevation Change** Pressure Req. to Operate Heads Total Pressure Required Booster Pump Design Boost Available Residual Pressure 26.9 psi

SCALE: 1"=50'

DIG ALERT Call: TOLL FREE 1-800-227-2600

ACCEPTED BY: BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT ACCEPTANCE DATE 2-23-23 VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

REVISIONS EASTERN MUNICIPAL WATER DISTRICT **POC 67 POC RELOCATION** 3/24/23 JP John Wnerth SENIOR CIVIL ENGINEER DEPARTMENT NEW BUSINESS P.O OPERATIONS DRAWN BY: BY **ENGINEERING** CHECKED BY: DESCRIPTION POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS** POC #67

INDEX MAP

WO: 77443 PCWO: RWUE: 14-A-03 COORD. 14-A-11 RWUP: D-66673

EMWD STANDARD NOTE

CONSTRUCTION NOTE
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FOR NEW PROPOSE PIPE INSTALLATION:

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE

 BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES AND FIRE LINES. BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE

LOCATED UNDER ALL POTABLE WATERLINES AND FIRE LINES. WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A 4" (INCH) MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM) WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

PROPOSED RECYCLED WATER IRRIGATION LEGEND: SYMBOL DESCRIPTION

67 RECYCLED IRRIGATION WATER METER

RECYCLED IRRIGATION MASTER VALVE RECYCLED IRRIGATION FLOW SENSOR

RECYCLED IRRIGATION BOOSTER PUMP

© RECYCLED WATER SIGNAGE

RECYCLED IRRIGATION BALL VALVE RECYCLED IRRIGATION MAINLINE

EXISTING RECYCLED WATER IRRIGATION LEGEND:

SYMBOL DESCRIPTION

RECYCLED ISOLATION VALVE

RECYCLED QUICK COUPLER VALVE

RECYCLED REMOTE CONTROL VALVE

RECYCLED IRRIGATION CONTROLLER

----- IRRIGATION MAINLINE

POTABLE WATER LEGEND:

SYMBOL DESCRIPTION

6768 POTABLE WATER METER

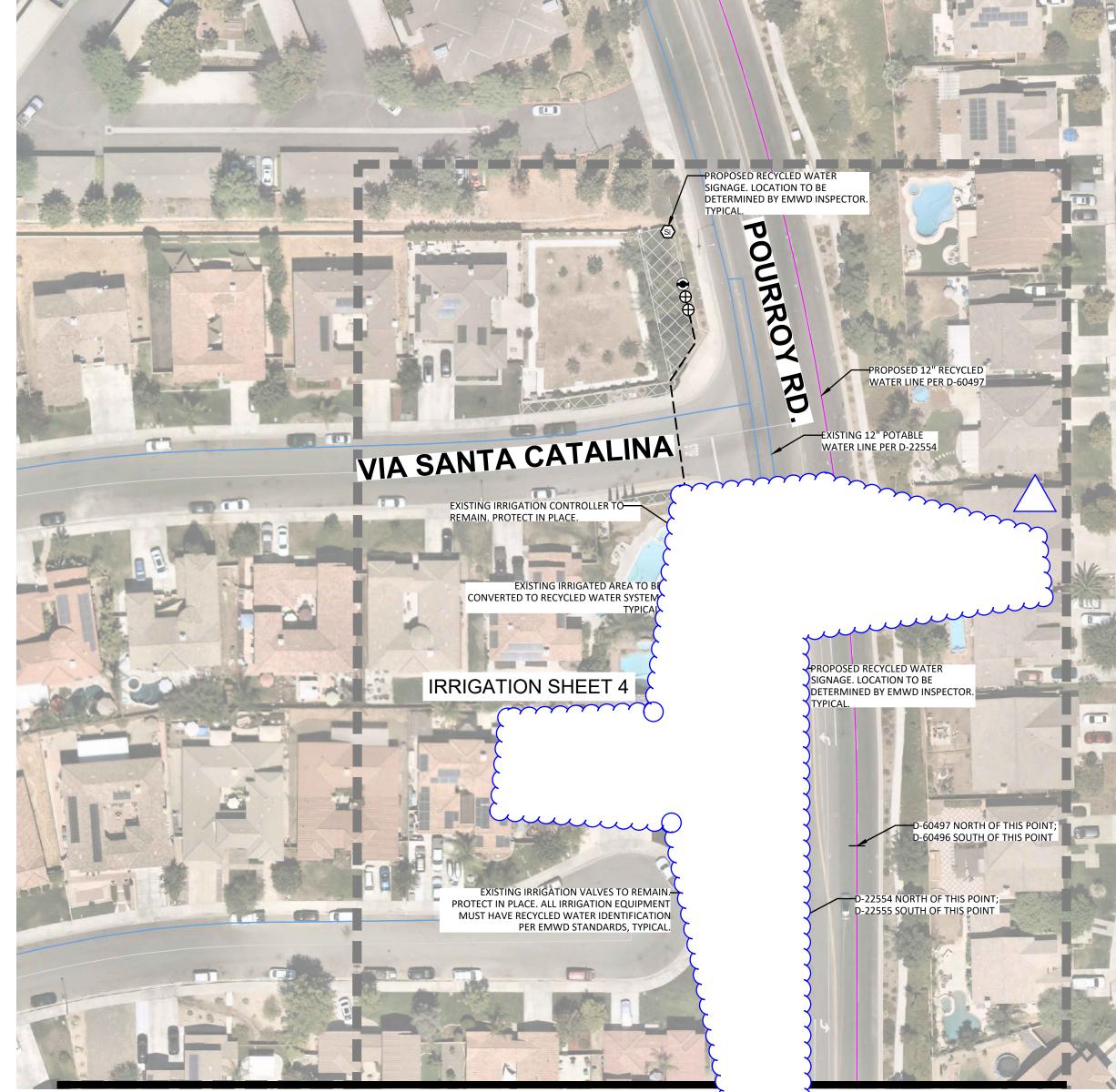
B POTABLE BACKFLOW PREVENTER

FS POTABLE WATER FLOW SENSOR POTABLE WATER MASTER VALVE

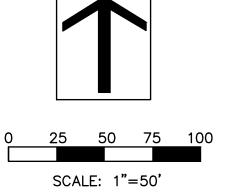
RECYCLED WATER IRRIGATED AREA (382,500 SF)

VALVE BOX NOTE:

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MATCHLINE SEE INDEX MAP SHELL



DIG ALERT		
	DESCF	
Call: TOLL FREE		
1-800-227-2600	LOCAT	
OR 811		
	VERTI	
TWO FULL WORKING DAYS BEFORE YOU DIG	HORIZ	

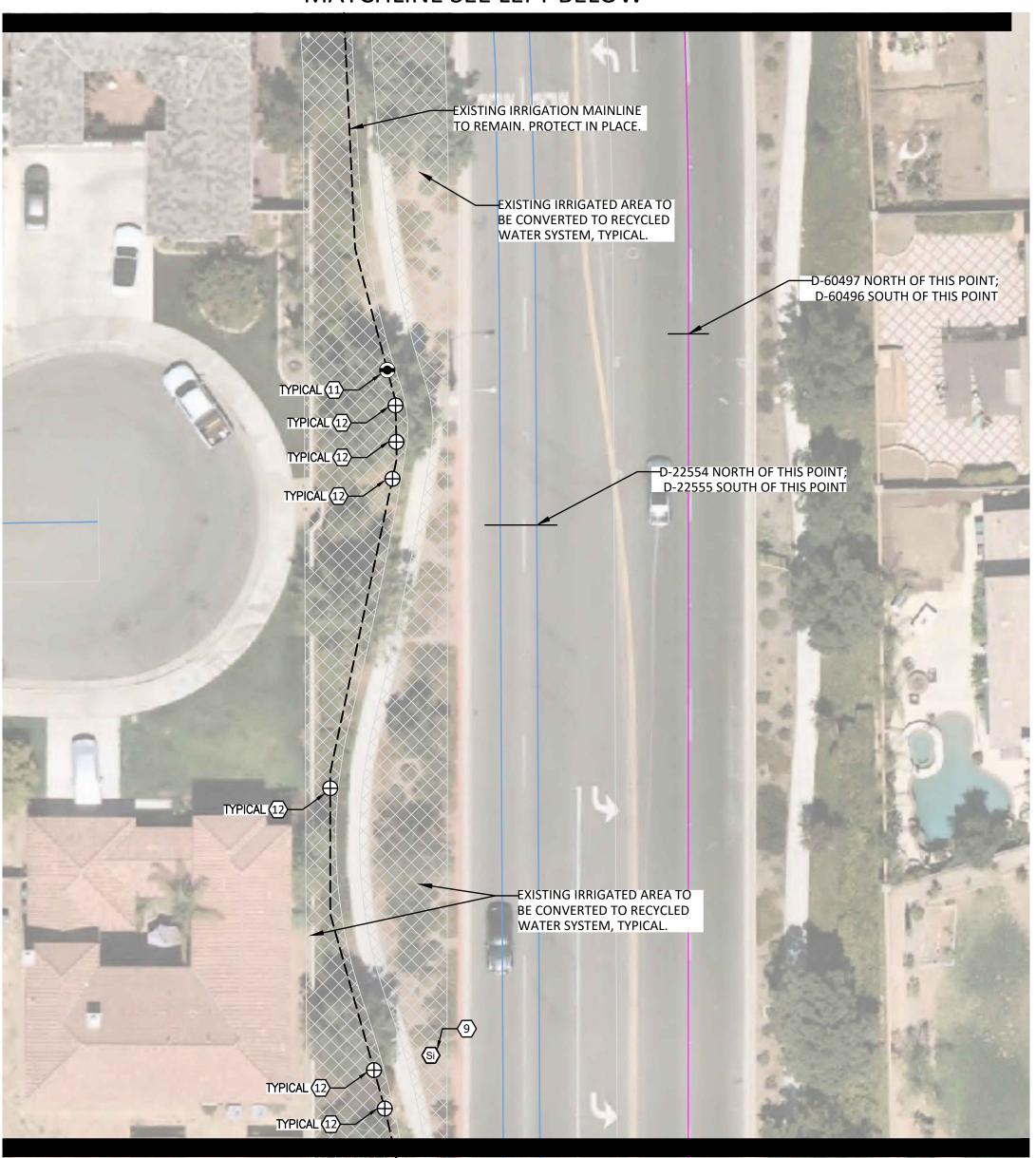
	BENCH MARK		ACCEPTED BY:			
	DESCRIPTON: LOCATION:	VALLEY-WIDE RECREATION AND PARK DISTRICT				
		DEPARTMENT	ACCEPTANCE	DATE		
			Den Win	2-23-23		
	VERTICAL DATUM:					
IG	HORIZONTAL DATUM:					
IG						

				REVISIONS				ACCEPTED BY:		T V
3/24/23 JP POC 67 POC RELOCATION				EASTERN MUNICIPAL WATER DISTRICT			"			
								Wnerth	2/24/23 DATE	
							SE	ENIOR CIVIL ENGINEER	DATE	
							DEPARTMENT	ACCEPTANCE	DATE	
DATE:							NEW BUSINESS P.C.	Zeru Aman	2/24/23	
							OPERATIONS	David Wnerth	2/24/23	
DRAWN BY:	DATE	BY	MARK		APPR.	DATE	ENGINEERING			
CHECKED BY:		ENGINEER	₹	DESCRIPTION	EI	MWD	POS ENGINEER			

VALLEY-WIDE RECREATION AND PARK DISTRICT			WO: 77443
WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP.		RWUE:
POC #67	COORD.	14-A-03 14-A-11	RWUP:
INDEX MAP	I.D.	98	SHT. <u>3</u> OF <u>10</u>
	S.A.	34	D-66674

POURRO **EXISTING IRRIGATED AREA TO-**BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. **EXISTING IRRIGATION MAINLIN** TO REMAIN. PROTECT IN PLACE. PROPOSED 12" RECYCLED WATER LINE PER D-60497 VIA SANTA CATALINA EXISTING 12" POTABLE WATER LINE PER D-22554 EXISTING IRRIGATION MAINLINE TO REMAIN. PROTECT IN PLACE.

MATCHLINE SEE LEFT BELOW



MATCHLINE SEE SHEET 5

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

- INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD.
- PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER INSTALL PER DETAIL
- PROVIDE AND INSTALL YARDNEY STRAINER MCS3-1. SIZE: 3" WITH MAX. FLOW 225 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.
- PROVIDE AND INSTALL BUCKNER SUPERIOR 3200 NORMALLY CLOSED MASTER VALVE (SIZE: 3") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.
- PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.
- PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE VALVE BOX.
- PROVIDE AND INSTALL 4" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.
- PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE
 AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC
 SCH.40 CONDUIT. INSTALL PULL BOX AT ANY CHANGE IN
 DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.
- PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.
- (10) NOT USE
- REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1")
 QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING
 COVER INSTALL NEW PURPLE VALVE BOX PER DETAIL
- REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.
- EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED (BY OTHERS)
- EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.
- REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP
- PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL NUMBER

IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD

REPRESENTATIVE.
EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

COLOR CODING

MATCHLINE SEE TOP RIGHT

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE BURDLE CARS.

SHALL HAVE PURPLE CAPS.
ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

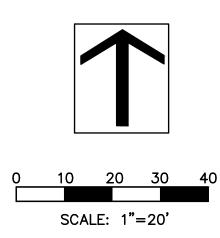
POTABLE AND RECYCLED WATER SEPARATION NOTE

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



DIG ALERT				
Call: TOLL FREE 1-800-227-2600 OR 811				
TWO FULL WORKING DAYS BEFORE YOU DIG				

BENCH MARK	ACCEPTED BY:				
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HORIZONTAL DATUM:					

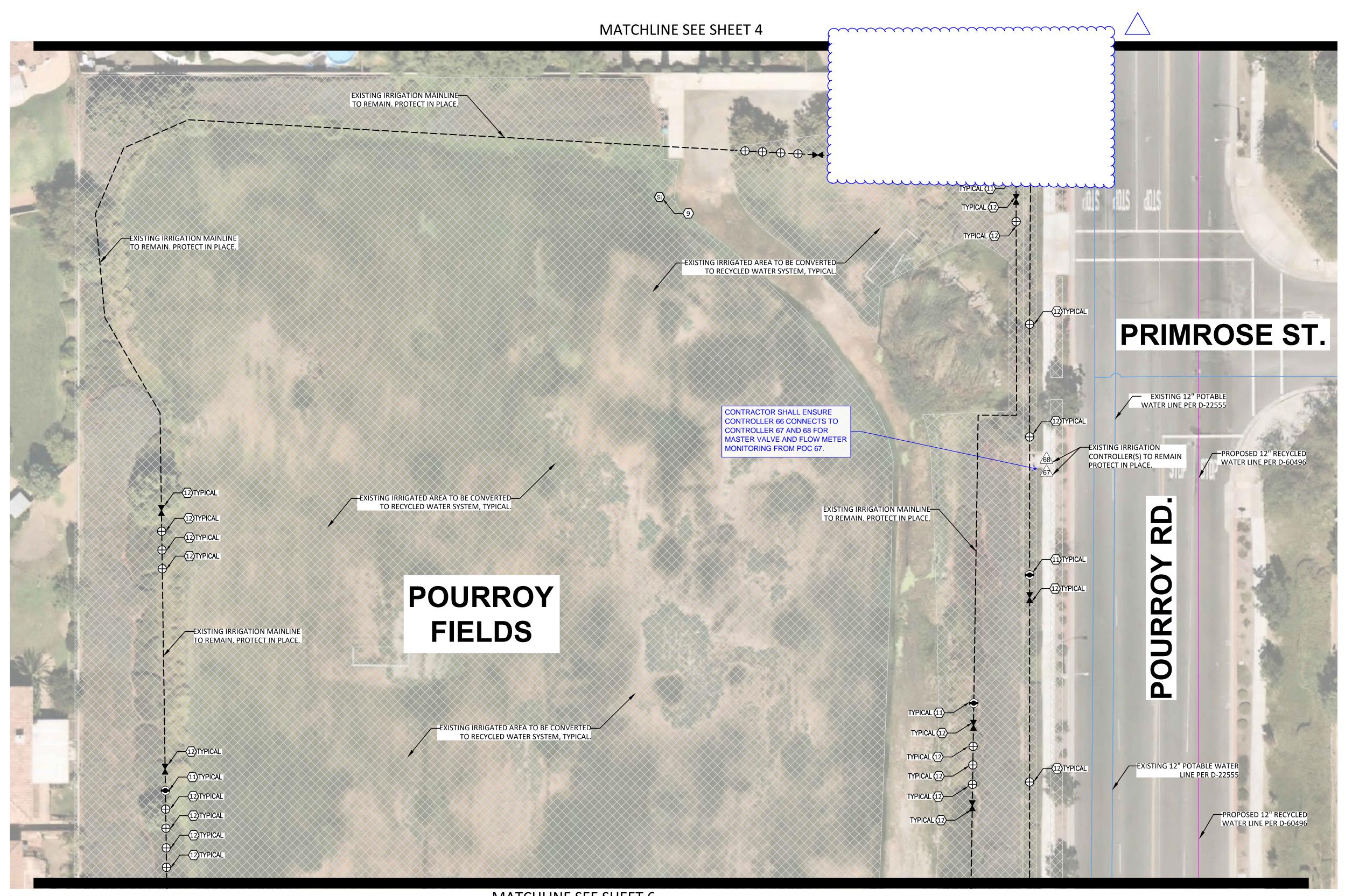
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ALLEY-WIDE RECREATION AND PARK DISTRIC
WINCHESTER, CA.
RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS
POC #67

IRRIGATION PLAN

STRICT			WO: 77443
			PCWO:
FIT	DOPP.		RWUE:
	COORD.	14-A-03 14-A-11	RWUP:
	I.D.	98	SHT. <u>4</u> OF <u>10</u>
	S.A.	34	D-66675



CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD.

PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER — INSTALL PER DETAIL

PROVIDE AND INSTALL YARDNEY STRAINER MCS3-1. SIZE: 3" WITH MAX. FLOW 225 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.

PROVIDE AND INSTALL BUCKNER SUPERIOR 3200 NORMALLY CLOSED MASTER VALVE (SIZE: 3") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

5 PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE VALVE BOX.

PROVIDE AND INSTALL 4" CLASS 315 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.

PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE
AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC
SCH.40 CONDUIT. INSTALL PULL BOX AT ANY CHANGE IN
DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.

PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.

(10) NOT USE

REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1")
QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING
COVER — INSTALL NEW PURPLE VALVE BOX PER DETAIL

REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.

EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED

EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.

(BY OTHERS)

REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP

MAINLINE.

PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL NUMBER

MATCHLINE SEE SHEET 6

IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD REPRESENTATIVE.

EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

COLOR CODING

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

POTABLE AND RECYCLED WATER SEPARATION NOTE

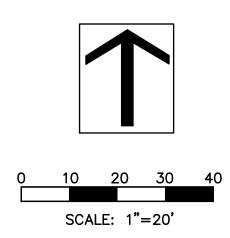
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INSTALLATION NOTES

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2/24/23

DATE 2/24/23 2/24/23



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VALLEY-WIDE RECREATION AND PARK DISTRICT			WO: 77443
WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	DOPP.		RWUE:
POC #67	COORD.	14-A-03 14-A-11	RWUP:
IRRIGATION PLAN	I.D.	98	SHT. <u>5</u> OF <u>10</u>
	S.A.	34	D-66676

MATCHLINE SEE SHEET 5 EXISTING IRRIGATION MAINLINE TO REMAIN. PROTECT IN PLACE. Will be settle EXISTING IRRIGATION MAINLINE— TO REMAIN. PROTECT IN PLACE. POURROY —EXISTING 12" POTABLE WATER LINE PER D-22555 **FIELDS** PROPOSED 12" RECYCLED WATER LINE PER D-60496 TYPICAL (12) ,-----EXISTING IRRIGATED AREA TO BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. POU EXISTING IRRIGATION MAINLINE TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATION MAINLINE O REMAIN. PROTECT IN PLACE. TYPICAL (12) **EXISTING IRRIGATION MAINLINE** TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATED AREA TO BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. EXISTING IRRIGATION MAINLINE TO REMAIN. PROTECT IN PLACE EXISTING 12" POTABLE WATER LINE PER D-22555 WATER LINE PER D-60496 MATCHLINE SEE SHEET 7

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

- INSTALL NEW 2" RECYCLED WATER METER PER EMWD STANDARD PB-10. WATER METER WILL BE PROVIDED BY EMWD.
- PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE
- LOCKING COVER INSTALL PER DETAIL

 PROVIDE AND INSTALL YARDNEY STRAINER MCS3—1. SIZE: 3" WITH MAX. FLOW 225 GPM. INSTALL ABOVE GROUND WITH STAINLESS
- STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.

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- PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-2B (SIZE: 2"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.
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 AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC
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- PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.
- (10) NOT USED
- REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1")
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 COVER INSTALL NEW PURPLE VALVE BOX PER DETAIL
- REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.
- EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED (BY OTHERS)
- EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.
- REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP
- MAINLINE.

 PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER
- MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL NUMBER.

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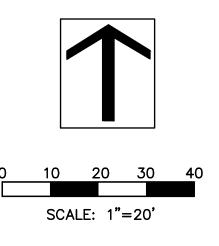
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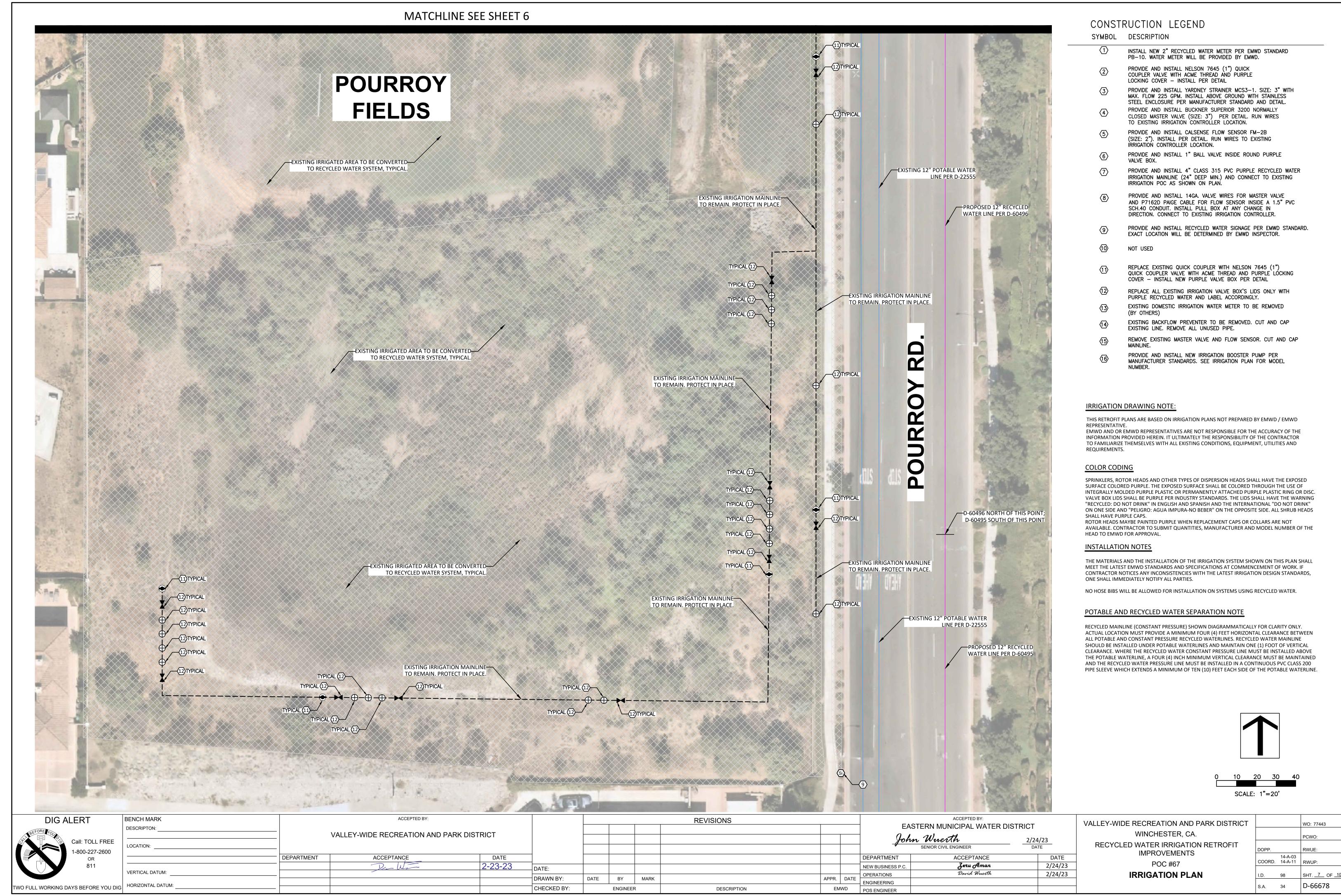
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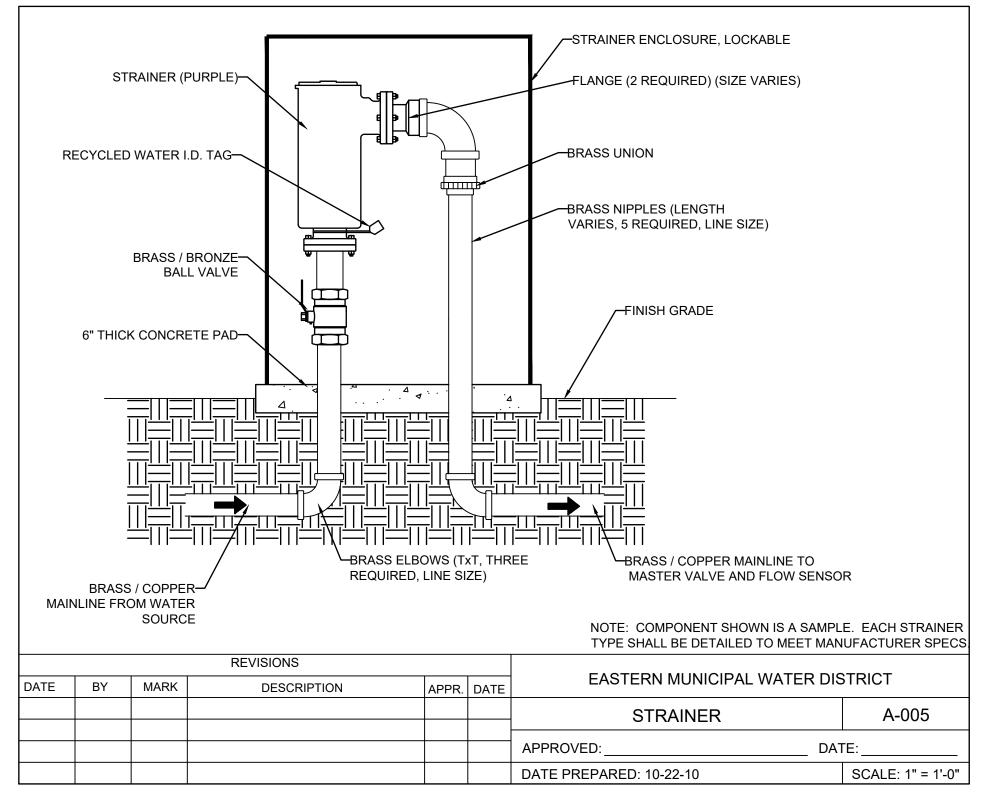
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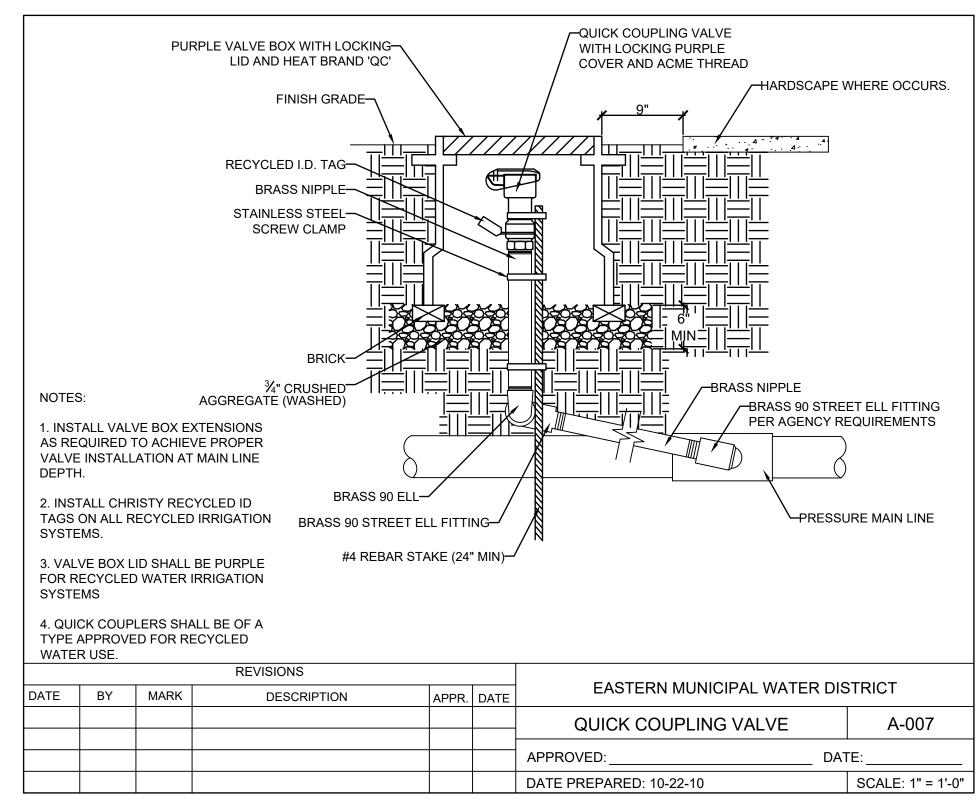


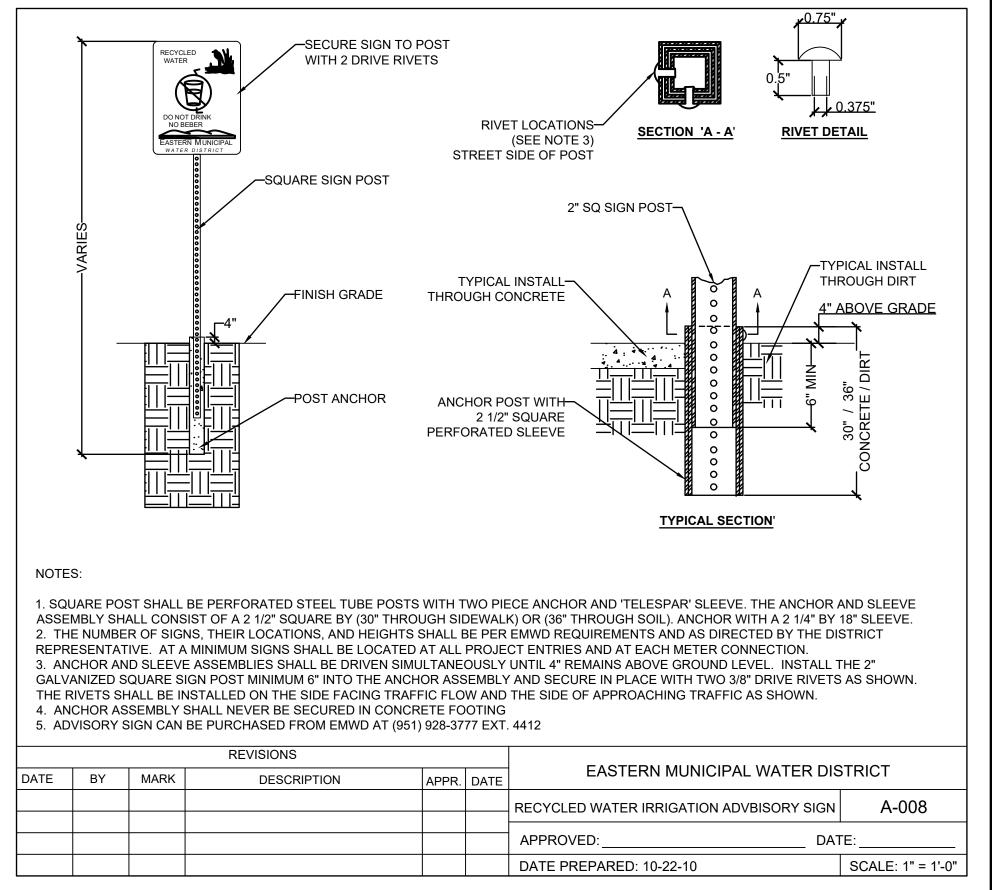
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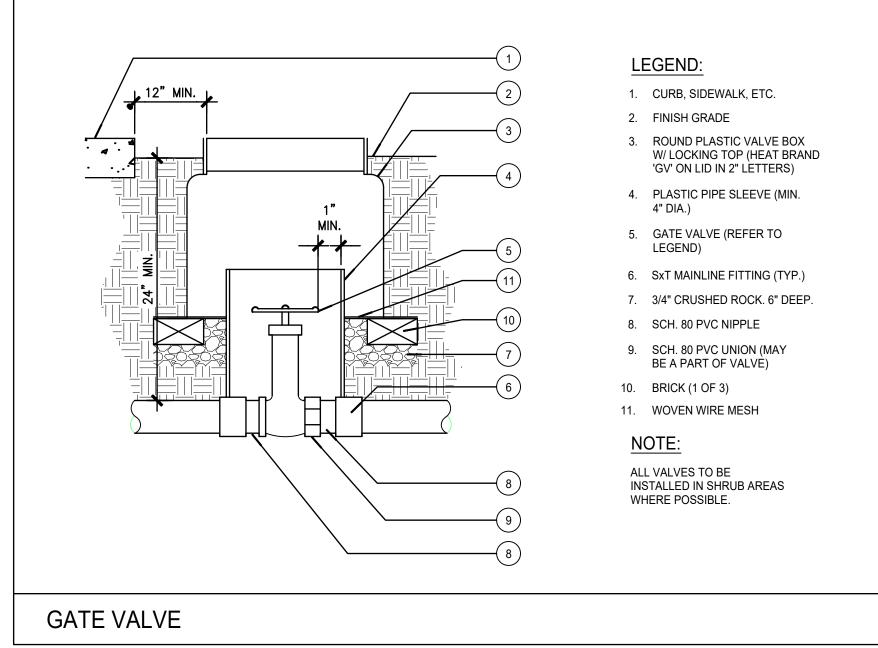
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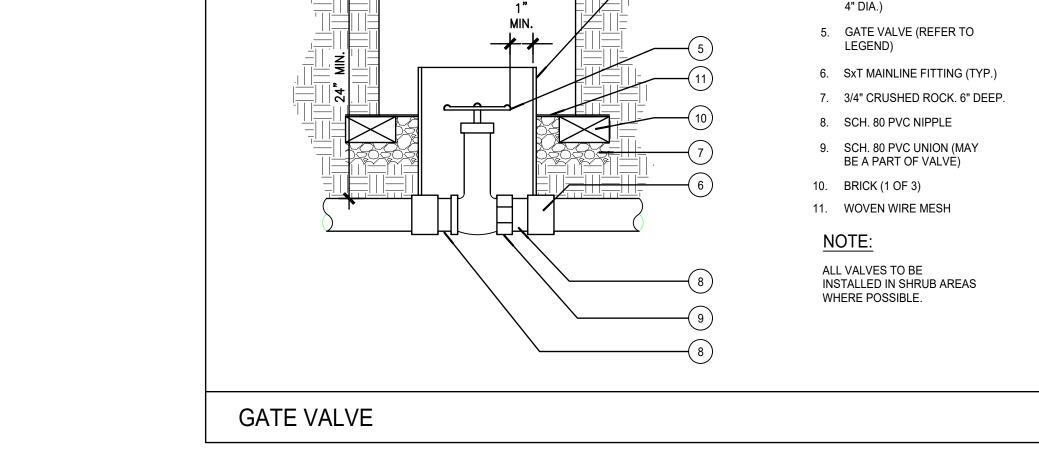










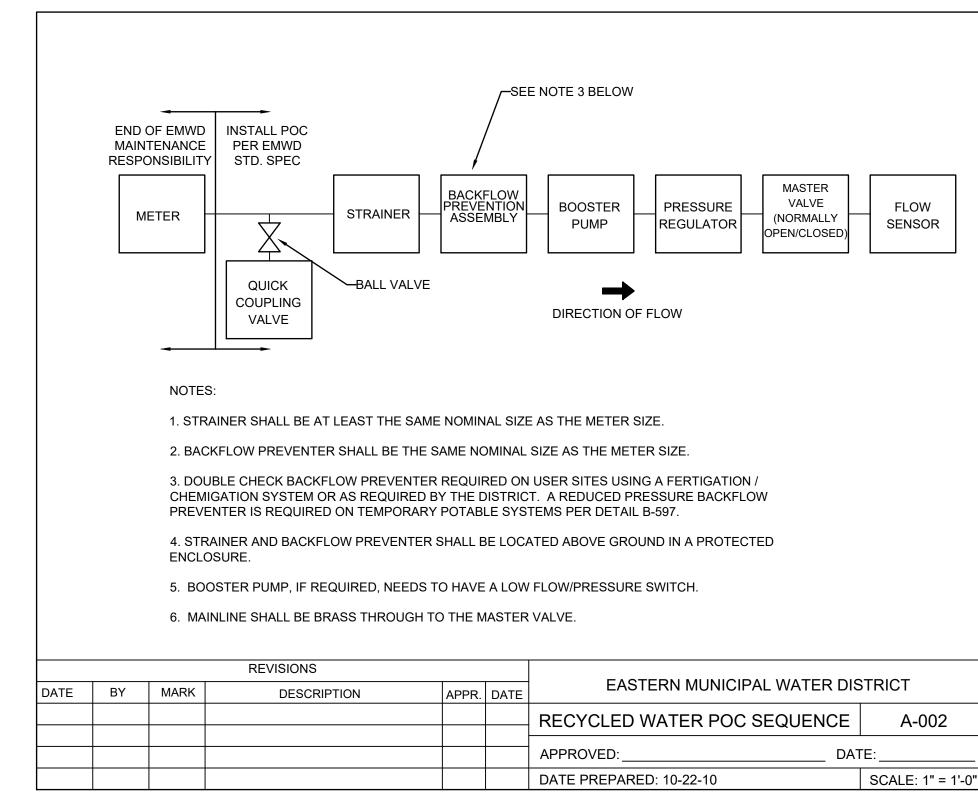


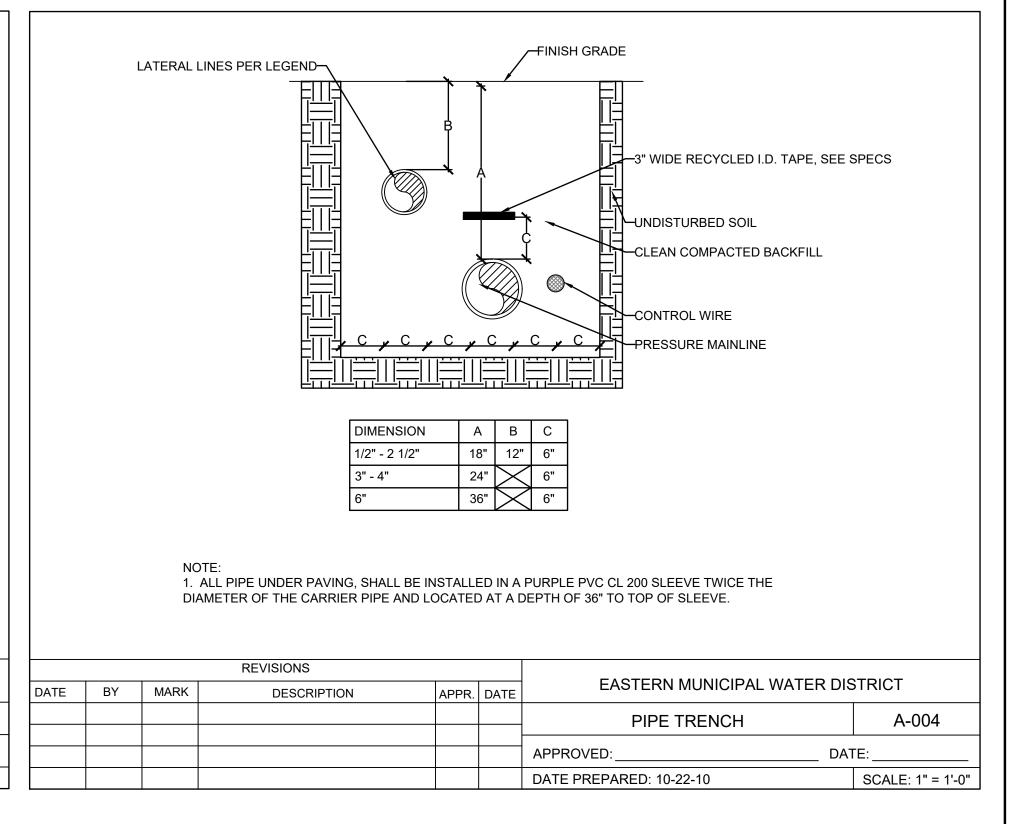
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INSTALLATION NOTES

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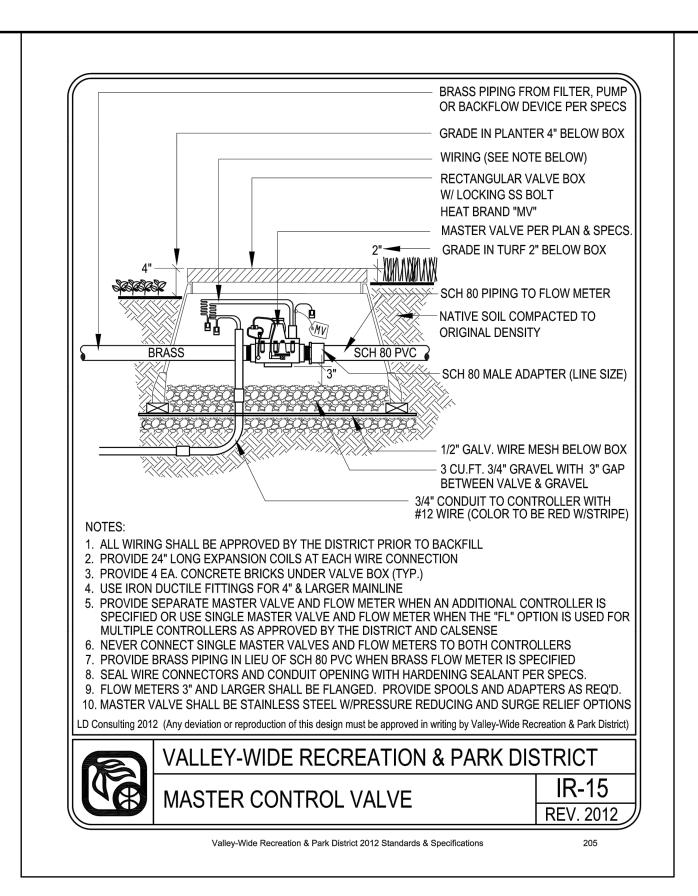


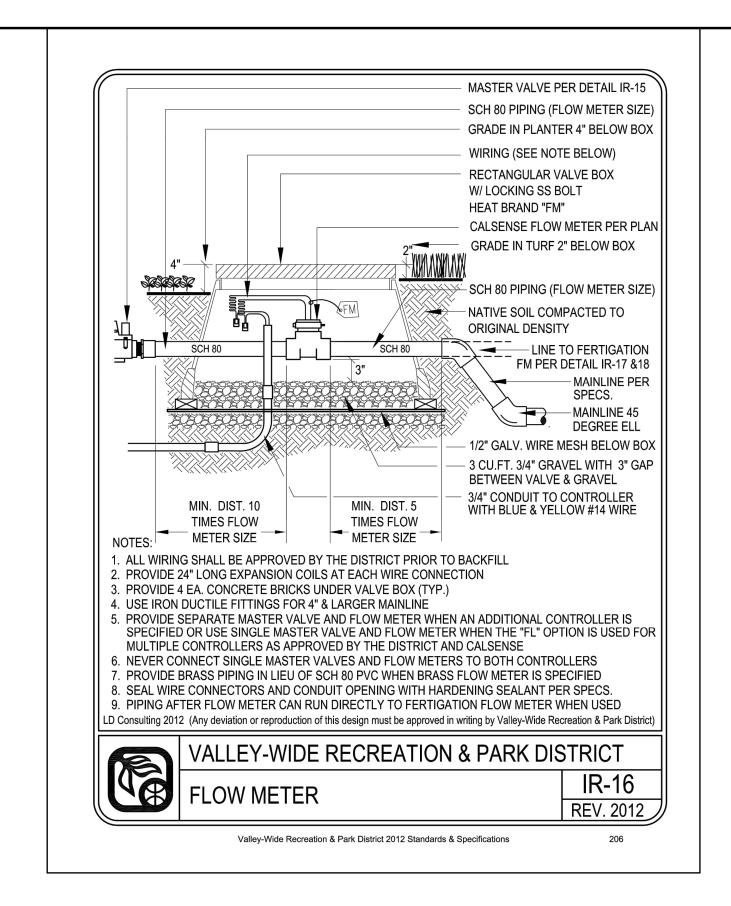
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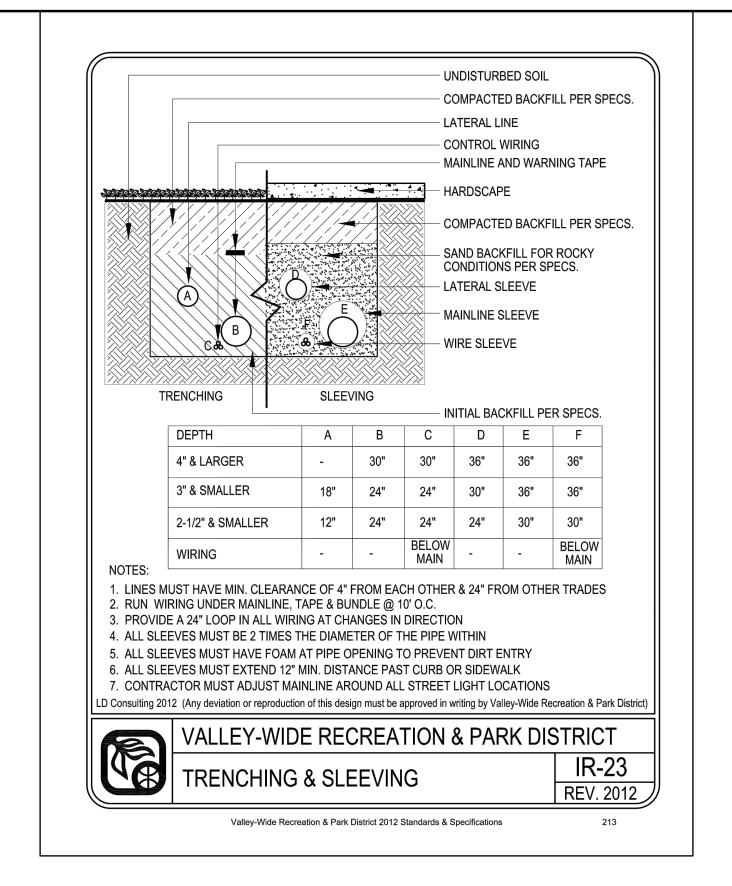
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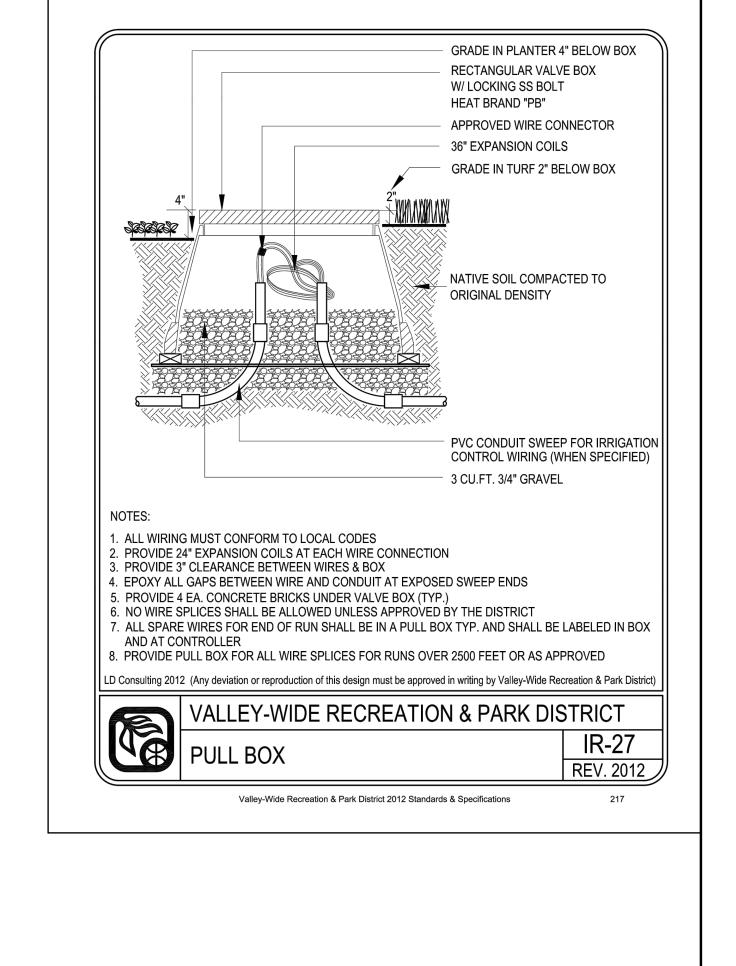
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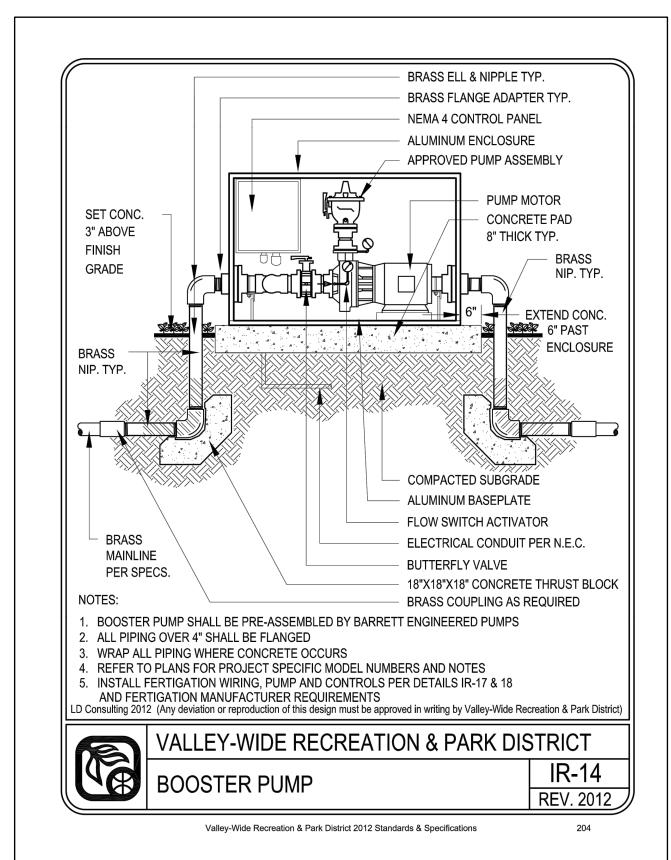
LLEY-WIDE RECREATION AND PARK DISTRICT			WO: 77443
WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT	DOPP.		RWUE:
IMPROVEMENTS POC #67	COORD.	14-A-03 14-A-11	RWUP:
IRRIGATION DETAILS	I.D.	98	SHT. <u>8</u> OF <u>10</u>
	S.A.	34	D-66679

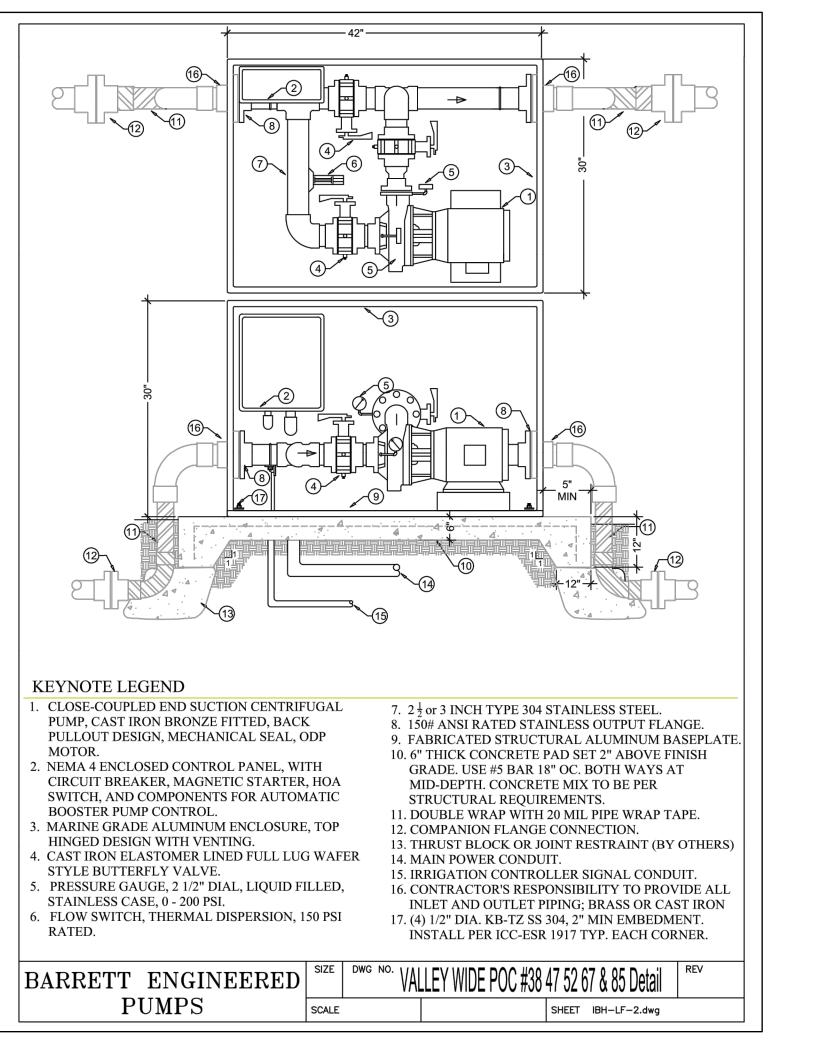


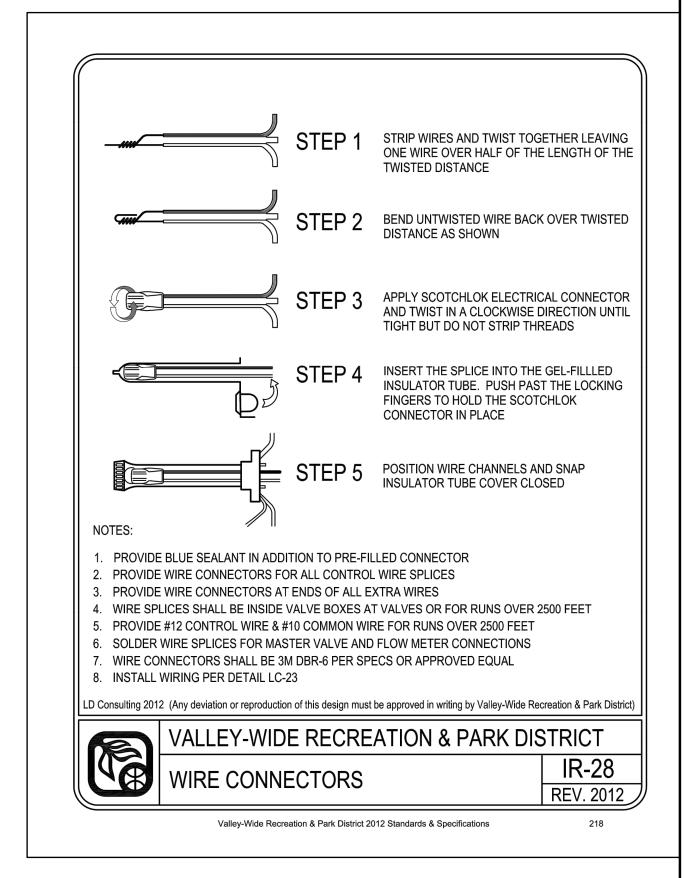


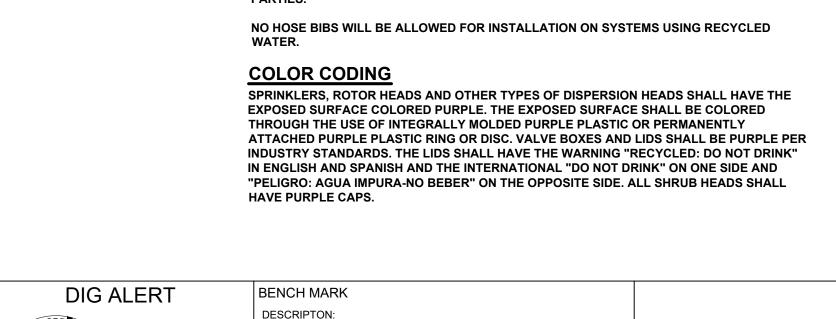












THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN

DEPARTMENT

STANDARDS AND SPECIFICATIONS. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH

SHALL MEET THE LATEST EMWD AND VALLEY-WIDE RECREATION AND PARK DISTRICT

THE LATEST IRRIGATION DESIGN STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL

INSTALLATION NOTES

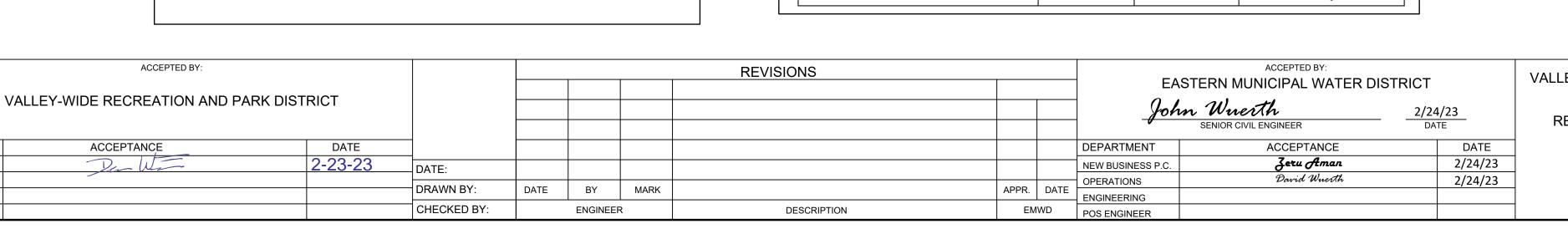
Call: TOLL FREE

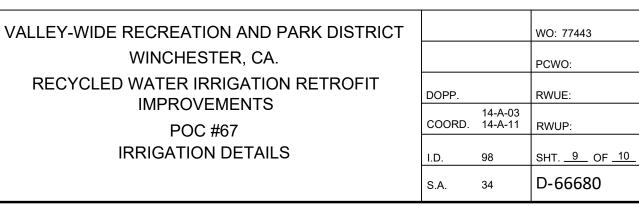
1-800-227-2600

TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

LOCATION:

VERTICAL DATUM:





I. CONTRACTOR'S IRRIGATION WORK RESPONSIBILITIES

- SCOPE OF WORK: THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
- CONFORMANCE: ALL IRRIGATION WORK SHALL CONFORM TO APPLICABLE LOCAL, COUNTY AND/OR STATE CODES, REGULATIONS AND RULES.
- LICENSE: ALL WORK SHALL BE PERFORMED BY A C-27 CALIFORNIA LICENSED LANDSCAPE IRRIGATION CONTRACTOR.
- PERMITS AND INSPECTIONS: THE CONTRACTOR SHALL OBTAIN. COORDINATE AND PAY FOR ANY AND ALL PERMITS, FEES AND AGENCY INSPECTIONS AS REQUIRED.
- INSURANCE: THE CONTRACTOR SHALL CARRY ALL WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY ALL APPLICABLE CODES, REGULATIONS AND BY THE OWNER (JOB SUPERINTENDENT)
- SITE VERIFICATION: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS NECESSARY TO ACHIEVE THE INTENDED DESIGN OF THE IRRIGATION SYSTEM. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY.
- LIABLE FOR ENCROACHMENT: THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY ENCROACHMENT INTO ADJACENT PROPERTY, RIGHTS-OF-WAYS, EASEMENTS, SET-BACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
- POINT OF CONNECTION VERIFICATION: THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE, METER SIZE AND SIZE OF SERVICE TO METER (P.O.C.) AT EACH POINT OF CONNECTION.
- FIFI D STAKING: PRIOR TO INSTALLATION, THE CONTRACTOR SHALL LOCATE BY STAKES OR OTHER MEANS ALL PRESSURE SUPPLY LINES, CONTROL EQUIPMENT, GROUND COVER DELINEATIONS AND HEADS FOR APPROVAL BY THE OWNER (JOB SUPERINTENDENT).
- COORDINATION OF ACTIVITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS ACTIVITIES WITH ALL OTHER TRADES THROUGH THE OWNER (JOB SUPERINTENDENT)
- INTENDED DESIGN COVERAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION, MODIFICATION OR REVISIONS OF THE SYSTEMS AS NECESSARY TO MAINTAIN THE CONSISTENT COVERAGE DESIGN OF THE CONTRACT DOCUMENTS. ANY DEVIATION FROM THE CONTRACT DOCUMENTS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE
- NOTIFICATION OF DISCREPANCIES: ANY DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND THE CONTRACT DOCUMENTS AND/OR THE DESIGN INTENT AFFECTING THE SUCCESSFUL COMPLETION AND COST OF THE PROJECT SHALL BE REPORTED TO THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY. ALL WORK RELATED TO THE PROBLEM AREA SHALL CEASE UNTIL THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER (JOB SUPERINTENDENT) OR LANDSCAPE ARCHITECT IN WRITING. ANY CONTINUATION OF WORK IS AT THE CONTRACTOR'S RISK AND EXPENSE.
- IRRIGATION PLANS: THE IRRIGATION PLANS, INCLUDING PIPING AND EQUIPMENT LOCATIONS, ARE DRAWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO THE SYSTEM AS REQUIRED TO AVOID PHYSICAL ELEMENTS AND CONFORM TO THE SITE CONDITIONS. IN ALL CASES. THE CONTRACTOR SHALL INSURE THAT THERE ARE NO CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING AND CONSTRUCTION ELEMENTS, AND EXISTING UTILITIES.
- ELECTRICAL CONNECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ELECTRICAL CONNECTION FROM POWER SOURCE TO CONTROLLERS AS INDICATED ON THE PLANS WHERE APPLICABLE.
- LIABLE FOR DAMAGE: THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ALL UTILITIES, CONSTRUCTION, IRRIGATION AND PLANTING ELEMENTS, EITHER MARKED OR UNMARKED, AND SHALL REPAIR OR REPLACE DAMAGE TO ITS ORIGINAL CONDITION IN A MANNER ACCEPTABLE TO THE OWNER (JOB SUPERINTENDENT).
- LIABLE FOR LOSS: THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY LOSS TO HIS EQUIPMENT. PARTS AND MATERIALS ON THIS PROJECT UNTIL COMPLETION AND ACCEPTANCE OF THE JOB IN WRITING FROM THE OWNER (JOB SUPERINTENDENT).
- AS BUILTS: THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE 'AS BUILT' RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. BEFORE THE TIME OF THE FINAL INSPECTION. THE CONTRACTOR SHALL TRANSFER ALL INFORMATION FROM THE 'AS BUILT' SET AND FIELD STAKING OF ALL EQUIPMENT LOCATED ON THE MAINLINE AND CONTROL WIRE LOCATION TO A REPRODUCIBLE OZALID SEPIA, PROCURED FROM THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT. ALL WORK SHALL BE NEAT AND LEGIBLE. THE CONTRACTOR SHALL CERTIFY REPRODUCIBLES AS TO ACCURACY AND COMPLETENESS.
- WRITTEN GUARANTEE: ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE ON HIS LETTERHEAD AT THE TIME OF THE FINAL INSPECTION.
- WRITTEN CERTIFICATION: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION THAT THE IRRIGATION SYSTEM IS INSTALLED FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AND IN FULL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS SHALL BE ON THE CONTRACTOR'S LETTERHEAD WITH HIS IRRIGATION AND CALIFORNIA C-27 CONTRACTOR'S LICENSE NUMBER.
- TURNOVER ITEMS: THE CONTRACTOR SHALL SUPPLY TO THE OWNER (JOB SUPERINTENDENT), AS A PART OF THIS CONTRACT, THE FOLLOWING ITEMS PRIOR TO THE TIME OF THE FINAL SITE OBSERVATION:
- 1. A REPRODUCIBLE SET OF 'AS BUILT' DRAWINGS AS PER NOTE 'Q' ABOVE.
- THE ORIGINAL OF THE GUARANTEE LETTER. THE ORIGINAL OF THE CERTIFICATION LETTER.
- TWO (2) KEYS FOR EACH AUTOMATIC CONTROLLER. TWO (2) SETS OF ANY SPECIAL EQUIPMENT REQUIRED FOR OPERATING, ADJUSTING, ASSEMBLING AND REMOVING EACH TYPE OF EQUIPMENT SUPPLIED ON THIS PROJECT AS

- II. OWNER'S IRRIGATION WORK RESPONSIBILITIES
- CONSTRUCTION RESPONSIBILITIES: THE OWNER WILL BE DIRECTLY RESPONSIBLE FOR ALL ASPECTS OF CONSTRUCTION INCLUDING ALL IRRIGATION INSPECTIONS. ALL FIELD MEETINGS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT).
- DETERMINING LEGAL AND PHYSICAL ELEMENTS: THE OWNER (JOB SUPERINTENDENT) SHALL BE RESPONSIBLE FOR DETERMINING PROPERTY LINES, RIGHTS-OF-WAYS, TRACT BOUNDARIES, GRADES, EASEMENTS, UTILITY LOCATIONS (ABOVE AND BELOW GRADE) AND ANY OTHER LEGAL OR PHYSICAL ELEMENTS AS REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK. THE CONTRACTOR SHALL NOT BE PERMITTED TO PROCEED WITH ANY WORK WITHOUT DETERMINATION OF THE ABOVE INFORMATION.
- SITE DISCREPANCIES: ALL DISCREPANCIES IN SITE CONDITIONS, DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY. IT IS THE OWNER'S (JOB SUPERINTENDENT'S) RESPONSIBILITY TO CONSULT THE LANDSCAPE ARCHITECT PRIOR TO ANY FURTHER WORK IN THAT AREA. ANY UNREPORTED DISCREPANCY AND CONTINUED WORK WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE.
- CONTRACT FULFILLMENT: ALL QUESTIONS RELATING TO INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS. QUALITY OF WORK AND ACCEPTABLE FULFILLMENT OF INTENT OF THE CONTRACT DOCUMENT SHALL BE DECIDED BY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT CONCURRENTLY.
- III. REQUIRED FIELD OBSERVATION WORK A. REQUIRED FIELD OBSERVATION WORK: THESE PLANS WERE PREPARED WITH THE UNDERSTANDING THAT THE OWNER OF SAID PLANS WILL USE E.M.W.D. TO PROVIDE 'FULL' CONTRACT SERVICES INCLUDING FIELD OBSERVATION SERVICES DURING CONSTRUCTION. FAILURE TO USE E.M.W.D. TO PROVIDE AND COMPLETE THE FIELD OBSERVATION SERVICES SET FORTH HEREIN WILL SIGNIFICANTLY INCREASE THE RISK OF LOSS RESULTING, AMONG OTHER CAUSES, FROM MISINTERPRETATION OF THE INTENT OF THE DESIGN, UNAUTHORIZED MODIFICATIONS THERETO, AND FAILURE TO DETECT ERRORS AND OMISSIONS IN THE PLANS AND SPECIFICATIONS BEFORE THEY BECOME COSTLY MISTAKES BUILT INTO THE PROJECT. THEREFORE, IN THE EVENT THAT E.M.W.D. IS OTHERWISE PRECLUDED FROM COMPLETING THE FIELD OBSERVATION SERVICES SET FORTH HEREIN, THE OWNER, OR SUBSEQUENT OWNER (INDIVIDUALS OR CORPORATIONS WHO HAVE PURCHASED THESE PLANS WITH THE PROJECT), AGREES

TO HOLD HARMLESS, INDEMNIFY, AND DEFEND E.M.W.D. FROM

IV. LANDSCAPE ARCHITECT'S IRRIGATION FIELD OBSERVATION SCHEDULE

AND AGAINST ANY AND ALL CLAIMS.

- A. FIELD OBSERVATION COORDINATION: THE FOLLOWING OBSERVATIONS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT). THE CONTRACTOR SHALL NOTIFY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT NOT LESS THAN FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY OBSERVATION. CONTINUED WORK WITHOUT OBSERVATION AT THESE PHASES OF WORK IS AT THE CONTRACTOR'S RISK, WITH ANY REQUIRED CHANGE OR MODIFICATION AT THE CONTRACTOR'S EXPENSE. THE OWNER (JOB SUPERINTENDENT) SHALL INFORM THE LANDSCAPE ARCHITECT AS TO THE PURPOSE AND TIME OF THE OBSERVATION FORTY-EIGHT (48) HOURS IN ADVANCE.
- B. CONTRACTOR ORIENTATION/PRE—CONSTRUCTION MEETING: THIS MEETING SHALL BE CONDUCTED TO DISCUSS THE PLANS AND SPECIFICATIONS, POSSIBLE DISCREPANCIES, SITE CONDITIONS AND OTHER ASPECTS OF THE PROJECT IRRIGATION WORK SUCH AS PERSONNEL, SCHEDULE AND REQUIREMENTS FOR STARTING WORK. PRIOR TO THE MEETING, THE CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH SITE CONDITIONS AND THE PLANS, DETAILS AND SPECIFICATIONS.
- C. IRRIGATION MAINLINE AND EQUIPMENT LAYOUT: THIS OBSERVATION SHALL BE PERFORMED BY THE OWNER (JOB SUPERINTENDENT) FOLLOWING STAKING OF ALL PRESSURE MAINLINE AND CONTROL EQUIPMENT, VERIFICATION OF ALL SITE CONDITIONS AND PRIOR TO ANY TRENCHING. ANY DISCREPANCIES NOT PREVIOUSLY NOTED SHALL BE CORRECTED AT THIS TIME TO THE SATISFACTION OF THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
- D. IRRIGATION MAINLINE AND PRESSURE TEST: THIS OBSERVATION IS FOR THE PURPOSE OR REVIEWING ALL MAINLINE LAYOUT FOR CONFORMANCE TO SPECIFICATIONS AND VERIFYING THE WATER TIGHTNESS OF PRESSURE SYSTEMS PRIOR TO BACKFILLING TRENCHES. PRESSURE TESTS MUST CONFORM TO MANUFACTURER'S SPECIFICATIONS. ALL PRESSURE LINES SHALL BE TESTED UNDER A SUSTAINED HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS. THIS TEST SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER (JOB SUPERINTENDENT) TO MANUFACTURER'S ACCEPTED TESTING PROCEDURES AND APPROVED IN WRITING BY THE OWNER (JOB SUPERINTENDENT), PRIOR TO BACKFILLING ANY TRENCHES. CONTRACTOR SHALL FURNISH NECESSARY FORCE PUMP AND ALL OTHER NECESSARY TESTING EQUIPMENT.
- E. PROGRESS INSPECTIONS: PERIODIC INSPECTIONS SHALL BE PERFORMED BY OWNER (JOB SUPERINTENDENT) DURING THE LAYOUT OF ALL LATERAL LINE SYSTEMS. WITH TRENCHES OPEN TO VERIFY CONFORMANCE TO DETAILS, DEPTH OF PIPE AND EQUIPMENT ASSEMBLIES.
- F. IRRIGATION COMPLETION/COVERAGE TEST: THIS OBSERVATION IS TO INSURE CONFORMANCE OF ALL IRRIGATION EQUIPMENT WITH IRRIGATION CONTRACT DOCUMENTS AND WILL CONSIST OF OPERATION OF EACH SYSTEM TO INSURE INTENDED COVERAGE. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND BUILDINGS, ETC. PRIOR TO THIS OBSERVATION. THIS MAY INCLUDE CHANGES IN NOZZLE SIZES AND DEGREE OF ARC TO OPTIMIZE OPERATION.

V. SCOPE OF IRRIGATION WORK

- A. GENERAL IRRIGATION NOTES:
- 1. SPECIFIED EQUIPMENT: ALL EQUIPMENT SHALL BE AS LISTED IN THE LEGEND AND INSTALLED AS PER DETAILS AND SPECIFICATIONS, OR MANUFACTURER'S RECOMMENDATION. ANY SUBSTITUTIONS SHALL BE APPROVED IN WRITING BY OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT. ANY UNAPPROVED EQUIPMENT SHALL BE REPLACED AT THE
- CONTRACTOR'S EXPENSE. 2. ALTERNATE ITEMS: APPROVAL OF ANY ITEM OR ALTERNATE ITEM INDICATES ONLY THAT IT APPARENTLY MEETS THE REQUIREMENTS OF THE DRAWINGS ON THE BASIS OF THE INFORMATION SUBMITTED, AND DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR THE EQUIPMENT'S SUCCESSFUL OPERATION.
- 3. CONTRACTOR'S GUARANTEE: MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF THIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES WILL ONLY SUPPLEMENT THE GUARANTEE.
- 4. SOLVENT WELD MAINLINE PIPE: PRESSURE MAINLINE PIPE SIZED 1-1/2" AND SMALLER SHALL BE IPS PRESSURE RATED PVC 1120 SCHEDULE 40 RATED PIPE. PRESSURE MAINLINE PIPE SIZED TWO INCHES (2") AND LARGER SHALL BE IPS PRESSURE RATED PVC 1120 SDR 13.5 315 PSI RATED PIPE PVC (CLASS 315) CONFORMING TO MATERIALS ASTM D1784 AND PRODUCT DESIGN ASTM D2214 FOR SDR 315 AND ASTM 1784 FOR SCHEDULE 40 PIPE, BURIED A MINIMUM OF EIGHTEEN INCHES (18") DEEP WITH SOLVENT WELD JOINTS MADE FROM NSF APPROVED, TYPE 1, GRADE 1 (PVC COMPOUND CONFORMING TO ASTM RESIN SPECIFICATION D1784).
- 5. LATERAL LINE PIPE: NON-PRESSURE BURIED LATERAL LINE PIPE SHALL BE PRESSURE RATED PVC 1120 SDR 21 200 PSI RATED PIPE CONFORMING TO MATERIALS ASTM D1784 AND PRODUCT DESIGN ASTM D2214 FOR SDR 21 PIPE 200 PSI RATED PIPE CONFORMING TO MATERIALS ASTM D1784 AND PRODUCTS DESIGN ASTM D2214 FOR SDR 21 PIPE 200, BURIED A MINIMUM OF 12" DEEP WITH SOLVENT WELD JOINTS MADE FROM NSF APPROVED TYPE 1, GRADE II PVC COMPOUND CONFORMING TO ASTM RESIN SPECIFICATION D1784.
- 6. GASKET SEAL MAINLINE PIPE: PRESSURE MAINLINE PIPE SIZED TWO INCHES (2") AND LARGER SHALL BE IPS PRESSURE RATED PVC 1120 SDR 21 200 PSI RATED PIPE. CONFORMING TO MATERIALS ASTM D1784, PRODUCT DESIGN ASTM D2214, GASKET JOINT ASTM DB139, GASKET ASTM F477, CELL CLASS ASTM 1245A, BURIED A MINIMUM OF EIGHTEEN INCHES (18") BELOW FINISH GRADE WITH THRUST BLOCKS PER MANUFACTURER'S INSTRUCTIONS.
- 7. SOLVENT CEMENT: SOLVENT PRIMER SHALL CONFORM TO ASTM D-2564. SOLVENT CEMENT
- SHALL CONFORM TO ASTM D2564. 8. SOLVENT FITTINGS: SOLVENT FITTINGS SHALL BE SCHEDULE 40 PRODUCED FROM PVC TYPE 1 CELL CLASSIFICATION B2454-B.
- 9. THREADED FITTINGS: THREADED FITTINGS SHALL BE SCHEDULE 40 AND THREADED NIPPLES SHALL BE SCHEDULE 80, PRODUCED FROM PVC TYPE 1 CELL CLASSIFICATION 12454-B. USE PERMATEX #51/TEFLON TAPE OR APPROVED PIPE JOINT COMPOUND PER FITTINGS MANUFACTURER'S RECOMMENDATIONS.
- 10. STEEL PIPE: GALVANIZED STEEL PIPE SHALL BE ASA SCHEDULE 40 MILLED STEEL SCREWED PIPE WITH MEDIUM GALVANIZED SCREWED BEADED MALLEABLE IRON FITTINGS. 11. STEEL PIPE BELOW GRADE: ALL GALVANIZED PIPE AND FITTINGS INSTALLED BELOW GRADE SHALL BE COATED WITH TWO (2) COATS OF KOPPERS #50 BITUMASTIC.
- 12. BRASS PIPE AND FITTINGS: BRASS PIPE SHALL BE 85% RED BRASS, AMERICAN NATIONAL STANDARD INSTITUTE (ANSI), SCHEDULE 40 SCREWED PIPE. FITTINGS SHALL BE MEDIUM BRASS, SCREWED, 125 POUND CLASS.
- 13. COPPER PIPE AND FITTINGS: COPPER PIPE SHALL BE TYPE K, (HARD) ASTM B88 SOLDER FITTINGS IN ACCORDANCE WITH ANSI B16.22. SOLDER JOINTS SHALL 45% SILVER, 15% COPPER, 16% ZINC, 24% CADMIUM AND SOLIDUS AS 11250F AND LIQUIDS AT 11450F., CONFORMING TO ASTM B206 AND FS QQ-B-655C.
- 14. METAL PIPE JOINTS: ALL CONNECTIONS TO BE SEALED WITH PIPE JOINT COMPOUND FOR METAL JOINTS.
- 15. CONTROL WIRE: CONNECTIONS BETWEEN THE AUTOMATIC CONTROLLERS AND THE ELECTRIC CONTROL VALVES SHALL BE MADE WITH DIRECT BURIAL COPPER WIRE AWG-U.F. 600 VOLT UL APPROVED. MINIMUM SIZE IS #14 AWG, BURIED EIGHTEEN (18") INCHES BELOW GRADE. USE DIFFERENT COLOR CONTROL WIRE FOR EACH CONTROLLER. COMMON WIRES SHALL BE WHITE OR A DIFFERENT COLOR FROM THE CONTROL WIRES FOR EACH OF AUTOMATIC CONTROLLER ON THE SITE.
- 16. WIRE TRENCH: WIRING SHALL OCCUPY THE SAME TRENCH AND SHALL BE INSTALLED ALONG THE SAME ROUTE AS PRESSURE SUPPLY OR LATERAL LINES WHEREVER POSSIBLE. THE WIRES SHALL BE TAPED TOGETHER AT INTERVALS NOT EXCEEDING TEN (10) FEET.
- 17. EXPANSION CURL: A TWELVE INCH (12") EXPANSION CURL SHOULD BE PROVIDED WITHIN THREE (3) FEET OF EACH WIRE CONNECTION AND AT LEAST EVERY ONE HUNDRED (100) FEET OF WIRE LENGTH. AT STREET CROSSINGS AND GATE VALVE LOCATIONS THE CONTRACTOR SHALL BRING ALL THE WIRES TO GRADE AND PROVIDE A 12" EXPANSION CURL COVERED BY A RECTANGULAR VALVE BOX MARKED 'IRRIGATION WIRE
- 18. WIRE SPLICES: ALL SPLICES SHALL BE MADE WITH SCOTCH—LOK #3577 CONNECTOR SEALING PACKS, PEN-TITE WIRE CONNECTOR, OR APPROVED EQUAL. USE ONE SPLICE PER CONNECTOR. ALL SPLICES SHALL BE MADE AT VALVES OR CONTROLLER. NO OTHER SPLICES WILL BE ALLOWED UNLESS APPROVED BY THE OWNER (JOB SUPERINTENDENT). ALL SPLICES NOT AT VALVES, SHALL BE MADE IN A RECTANGULAR VALVE BOX MARKED 'IRRIGATION WIRF'
- 19. TRENCHES: DIG TRENCHES STRAIGHT AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM OF TRENCH. LAY PIPE TO AN EVEN GRADE.
- 20. BACKFILL: THE TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE PERFORMED. TRENCHES SHALL BE CAREFULLY BACKFILLED WITH APPROVED MATERIALS, FREE FROM CLODS OF EARTH OR STONES TWO INCHES (2") OR LARGER. BACKFILL SHALL BE MECHANICALLY COMPACTED TO A DRY DENSITY EQUAL TO ADJACENT UNDISTURBED SOIL AND SHALL CONFORM TO ADJACENT SURFACE GRADES WITHOUT IRREGULARITIES.
- 21. LINES UNDER PAVING: ALL IRRIGATION LINES, VALVES AND WIRING RUNS SHOWN ON PLANS IN THE STREET, PAVED AREAS AND UNDER HARDSCAPING ARE DIAGRAMMATIC. INSTALL THESE LINES, VALVES AND WIRING RUNS IN PLANTING AREAS EXCEPT WHERE IT IS OBVIOUS THAT THEY MUST CROSS THAT PAVED AREA TO GET FROM ONE PLANTING AREA TO ANOTHER OR UNLESS NOTED OTHERWISE.
- 22. STREETS: WHERE ANY CUTTING OR BREAKING OF CONCRETE OR OTHER PAVING SURFACE IS NECESSARY, IT SHALL BE DONE AND REPLACED TO MATCH THE EXISTING WORK TO THE OWNER'S (JOB SUPERINTENDENT'S) SATISFACTION, BY THE CONTRACTOR, AS PART OF THE CONTRACT COST.
- 23. SLEEVES: SLEEVES SHALL BE INSTALLED UNDER ALL STREETS AND PAVEMENT WIDER THAN SEVEN FEET (7') PER THE IRRIGATION PLAN. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVES WITH THE OWNER (JOB SUPERINTENDENT) PRIOR TO THE PAVING BEING INSTALLED. 24. SLEEVE/PIPE COVER: ALL WIRE, PRESSURE AND NON-PRESSURE PIPE INSTALLED UNDER
- ASPHALTIC CONCRETE PAVING SHALL BE INSTALLED IN CLASS 315 PVC SLEEVES BURIED TWENTY-FOUR INCHES (24") BELOW THE ROAD BED AND BACKFILLED PER STRUCTURAL SOILS REPORT SPECIFICATIONS. 25. PIPE CLEARANCE: ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF SIX INCHES (6") FROM
- EACH OTHER. PARALLEL LINES SHALL NOT BE INSTALLED DIRECTLY OVER ONE ANOTHER. 26. CONTROL VALVES: INSTALL EACH CONTROL VALVE IN A SEPARATE LOCKING VALVE BOX WITH A MINIMUM OF TWELVE INCHES (12") BETWEEN VALVE BOXES, AND A MINIMUM OF SIX
- 27. HEAD INSTALLATION: IRRIGATION HEADS SHALL BE INSTALLED ONLY AFTER THE SYSTEM HAS BEEN FLUSHED TO THE COMPLETE SATISFACTION OF THE OWNER (JOB SUPERINTENDENT). 28. HEAD SPACING: SPACING OF HEADS SHALL NOT EXCEED THE MAXIMUM INDICATED ON THE
- DRAWINGS. IN NO CASE SHALL THE SPACING EXCEED THE MAXIMUM RECOMMENDED BY THE

INCHES (6") BETWEEN VALVE BOXES AND ANY WALK OR STRUCTURE.

- 29. INSTALLATION ANGLE OF IRRIGATION HEAD: ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADES UNLESS OTHERWISE DESIGNATED ON THE PLANS. 30. PIPE ON GRADE: ALL PIPE ON GRADE SHALL BE SECURED TO SLOPE SURFACES AT 10'
- O.C. AND TO FLAT AREAS AT 20' O.C. MAXIMUM WITH #4 X 24" REBAR WITH 'J' HOOKED RADIUS AT ONE END TO HOLD PIPE SECURELY IN PLACE. 31. IRRIGATION SYSTEM REQUIREMENTS PRIOR TO PLANTING: THE ENTIRE SPRINKLER IRRIGATION SYSTEM SHALL BE UNDER FULL AUTOMATIC OPERATION PRIOR TO THE START OF ANY
- PLANTING WORK AND AN IRRIGATION COVERAGE TEST SHALL ALSO BE PERFORMED BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF ANY PLANTING.



REQUESTED BY THE OWNER. ACCEPTED BY BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: **DEPARTMENT ACCEPTANCE** DATE VERTICAL DATUM:

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN

STANDARDS AND SPECIFICATIONS. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH

SHALL MEET THE LATEST EMWD AND VALLEY-WIDE RECREATION AND PARK DISTRICT

THE LATEST IRRIGATION DESIGN STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE

ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOXES AND LIDS SHALL BE PURPLE PER

INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK"

IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND

"PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL

EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED

THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY

INSTALLATION NOTES

PARTIES.

COLOR CODING

HAVE PURPLE CAPS.

DATE: DRAWN BY: BY CHECKED BY:

REVISIONS APPR. DATE

EASTERN MUNICIPAL WATER DISTRICT John Wuerth 2/24/23 SENIOR CIVIL ENGINEER **DEPARTMENT ACCEPTANCE** DATE Zeru Aman 2/24/23 NEW BUSINESS P. David Wuerth 2/24/23 OPERATIONS **ENGINEERING** POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS** POC #67 IRRIGATION SPECIFICATIONS

VALLEY-WIDE RECREATION AND PARK DISTRICT

RECYCLED WATER RETROFIT PLAN POC # 70 (POURROY RD. AND SKYVIEW RD.) CITY OF WINCHESTER, CALIFORNIA

EMWD STANDARD RECYCLED WATER IRRIGATION PLAN NOTES

- 1. THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EMWD RECYCLED WATER IRRIGATION GUIDELINES, AND EMWD STANDARDS AND SPECIFICATIONS.
- THE USE OF RECYCLED WATER SHALL ADHERE TO CDPH TITLE 22, DIVISION 4, CHAPTER 3 OF THE CALIFORNIA CODE OF REGULATIONS AND THE CURRENT RULES, ORDINANCES, REGULATIONS OF EMWD.
- 3. EMWD REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EMWD FIELD ENGINEERING DEPARTMENT AT (951) 928-3777, EXTENSION 4830.
- 4. THE EASTERN MUNICIPAL WATER DISTRICT OPERATION DEPARTMENT SHALL BE NOTIFIED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AT (951) 679-3222. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND
- WHEN POTABLE WATER IS ONSITE, THE CDPH TITLE 22 REQUIRES A CROSS CONNECTION SHUTDOWN TEST TO PRECEDE THE FINAL RELEASE OF THE IRRIGATION SYSTEM. THIS TEST WILL
- 6. THE RECYCLED WATER IRRIGATION PLAN IS A "LIVING" DOCUMENT OF RECORD THAT SHALL BE UPDATED IF THE PROJECT CONDITIONS, THE SITE PLAN, FACILITIES, IRRIGATED AREA, IRRIGATION DEMAND, OR DATA RELATIVE TO THE SITE CHANGES ONCE IT VARIES FROM THE ACCEPTED PLAN. DELTA REVISIONS OF THE PLAN SHALL BE AS DEEMED NECESSARY BY EMWD TO MAINTAIN ACCURATE DOCUMENT RECORDS OF THE PROJECT SITE AND LANDSCAPE IRRIGATION INSTALLATION.
- 7. ANY PROPOSED CHANGES TO A SYSTEM DURING CONSTRUCTION MUST BE SUBMITTED TO EMWD FOR AUTHORIZATION OF THE CHANGES PRIOR TO THE CHANGE BEING MADE IN THE FIELD.
- 8. UPON FINAL ACCEPTANCE OF AN IRRIGATION SYSTEM ANY FUTURE MODIFICATIONS MUST BE APPROVED THROUGH EMWD PRIOR TO THE START OF CONSTRUCTION.
- 9. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS. ANY WATER WELLS AND/OR WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE
- 10. DURING CONSTRUCTION, ALL RECYCLED IRRIGATION SYSTEMS SHALL BE CONNECTED TO A TEMPORARY POTABLE WATER SOURCE AT A T-METER CONNECTION TO A PUBLIC FIRE HYDRANT AS APPROVED BY EMWD. THIS CONNECTION WILL SERVE THE IRRIGATION SYSTEM WITH POTABLE WATER UNTIL THE METER IS RELEASED AT PROJECT APPROVAL. ALL TEMPORARY POTABLE CONNECTIONS FOR CONSTRUCTION OR IRRIGATION MUST BE HI-LINED THROUGH A T-METER AND AN APPROVED ABOVE GROUND REDUCED PRESSURE (RP) PRINCIPAL BACKFLOW DEVICE WITHIN 3 FEET OF METER. NO PURPLE COLORED PIPING OR APPURTENANCES SHALL BE CONNECTED TO ANY POTABLE WATER SOURCE.
- 11. REDUCED PRESSURE (RP) PRINCIPAL BACKFLOW DEVICES MUST BE APPROVED AND TESTED BY AN EMWD APPROVED BACKFLOW TESTER (A LIST OF APPROVED TESTERS ARE AVAILABLE UPON
- 12. CROSS CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED. FINES MAY BE LEVIED.
- 13. INTERCONNECTION OF IRRIGATION PRESSURE SUPPLY MAINLINES ORIGINATING FROM MORE THAN ONE METER IS STRICTLY PROHIBITED.
- 14. NO PONDING, RUNOFF OR OVERSPRAY IS PERMITTED, ADJUST ALL SPRINKLER HEADS TO MINIMIZE OVERSPRAY ONTO SIDEWALKS, STREETS, DRINKING FOUNTAINS, DECORATIVE FOUNTAINS, COMFORT STATIONS, PLAYGROUND EQUIPMENT, PICNIC TABLES, BBQ, PRIVATE LOTS, POTABLE WATER AREAS AND EQUIPMENT, FOOD PREPARATION, OUTDOOR EATING AREAS, OR NON-DESIGNATED USE AREAS MUST NOT BE SUBJECTED TO RECYCLED WATER OVERSPRAY, WINDBLOWN SPRAY, RUNOFF, PONDING, OR UNAUTHORIZED USE. LACK OF PREVENTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE, OR SYSTEM OPERATION, IS STRICTLY
- 15. HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER SYSTEMS. POTABLE QUICK COUPLERS ARE NOT ALLOWED WITHIN THE RECYCLED WATER IRRIGATED AREA.
- 16. QUICK COUPLING VALVES SHALL BE OF A TYPE APPROVED FOR RECYCLED WATER USE WITH BRASS CONSTRUCTION, A SPECIAL QUICK COUPLER KEY WITH AN ACME THREAD FOR OPENING AND CLOSING THE VALVE. QUICK COUPLER VALVES CANNOT BE LOCATED WITHIN 50 FEET OF FOOD PREPARATION, OUTDOOR EATING AREAS, OR DESIGNATED CHILDREN PLAY EQUIPMENT OR WITHIN THE FENCED PERIMETER SURROUNDING SWIMMING POOLS.
- 17. ALL NEW ON-SITE RECYCLED WATER PIPING INSTALLED ON THIS PROJECT SHALL BE PURPLE IN COLOR, PANTONE 522C AND IDENTIFIED IN ACCORDANCE WITH THE CURRENT CDPH GUIDELINES AND EASTERN MUNICIPAL WATER DISTRICTS STANDARDS AND SPECIFICATIONS.
- 18. WARNING TAPE FOR THE RECYCLED WATER PIPING SHALL BE PURPLE IN COLOR, PANTONE 522C, WITH THE WORDS "CAUTION: RECYCLED WATER" IMPRINTED IN MINIMUM 1 INCH HIGH LETTERS. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT. THE WARNING TAPE SHALL BE INSTALLED CONTINUOUSLY ABOVE THE NEW RECYCLED WATER IRRIGATION MAINLINE.

- 20. EACH AUTOMATIC CONTROLLER AND ITS ASSOCIATED EQUIPMENT SHALL BE IDENTIFIED WITH A SIGN BEARING THE WORDS "CAUTION: RECYCLED WATER DO NOT DRINK", WITH LETTERS AT LEAST 1 INCH HIGH ON A PURPLE BACKGROUND AND WITH A "DO NOT DRINK" SYMBOL SIGN. THE SIGNS SHALL BE PLACED AS TO BE READILY SEEN BY ANY OPERATIONS PERSONNEL UTILIZING
- 21. SIGNS OR DECALS WITH "RECYCLED WATER, DO NOT DRINK" AND THE DO NOT DRINK SYMBOL MUST BE POSTED ON PUMP CABINETS, AND ALL ENCLOSURES.
- 22. RECYCLED WATER SPRINKLERS / SPRAY HEADS MUST HAVE PURPLE CAPS, PURPLE COLLARS, AND THE RISERS HAVE A RECYCLED WATER DECAL. LARGE THROW HEADS MUST HAVE PURPLE INSERTS. PURPLE CAPS AND COLLARS MUST BE FIRMLY AFFIXED TO SPRINKLER HEADS. ALL OTHER ABOVE GROUND EQUIPMENTS MUST BE COLORED PURPLE OR HAVE A "RECYCLED WATER, DO NOT DRINK" DECAL OR SIGN.
- 23. ALL AUTOMATIC CONTROLLERS MUST BE SET TO OPERATE BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. UNLESS OTHERWISE PERMITTED BY EMWD.
- 24. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC.
- IN CASE OF EMERGENCY, CONTACT GREG WORTHINGTON AT (951) 654-1505 OR AFTER

CONTACT GREG WORTHINGTON AT (951) 306-2965

- 25. AN ON-SITE USER/SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY, WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS CONNECTION PROTECTION, THE RECYCLED PURVEYOR'S RULES AND REGULATIONS, AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. SAID PERSON IS REQUIRED TO PROVIDE A 24 HOUR CONTACT PHONE NUMBER AND ATTEND APPROVED SITE SUPERVISOR CLASS. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO EASTERN MUNICIPAL WATER DISTRICT.
- AND COULD RESULT IN SUSPENSION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS

LANDSCAPE MAINTENANCE RESPONSIBILITY NOTE

IT SHALL BE THE RESPONSIBILITY OF: VALLEY-WIDE RECREATION AND PARK DISTRICT TO MAINTAIN ALL ON SITE RECYCLED WATER IRRIGATION IN ACCORDANCE WITH EMWD ORDINANCE 68 LATEST EDITION.

EMWD TIME LIMITATION NOTE

THE TIME LIMIT ON DRAWING APPROVAL SHALL BE SIX (6) MONTHS FROM THE DATE OF PLAN APPROVAL. IF CONSTRUCTION HAS NOT COMMENCED WITHIN THE STATED TIME, EMWD REQUIRES DRAWING(S) TO BE REVIEWED BY THE DESIGN ENGINEER AND/OR ARCHITECT AND RESUBMITTED TO EMWD FOR POSSIBLE CHANGES IN MASTER PLANNED FACILITIES, SPECIFICATIONS AND

EMWD STANDARD NOTE

THE RECYCLED WATER IRRIGATION SYSTEM SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE EASTERN MUNICIPAL WATER DISTRICT STANDARDS AND SPECIFICATIONS.

- I. ALL IRRIGATION RISERS, DRIP LINE, AND COMPONENTS THAT ARE NOT AVAILABLE FROM THE MANUFACTURE WITH PURPLE RECYCLED WATER IDENTIFICATION SHALL BE LABELED WITH RECYCLED WATER DECALS OR STICKERS.
- 2. ALL IRRIGATION COMPONENTS AND VALVES MUST HAVE A RECYCLED WATER ID TAG AND A VALVE ID TAG IN A VALVE BOX WITH A PURPLE LID. THE PURPLE LID SHALL BE HEAT BRANDED WITH THE VALVE
- 3. ROTOR HEADS MAY BE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

RECYCLED WATER AND POTABLE WATER SEPARATION CLEARANCE NOTE

THE RECYCLED WATER IRRIGATION MAINLINE IS SHOWN DIAGRAMMATICALLY FOR CLARITY PURPOSES ONLY. THE RECYCLED WATER IRRIGATION MAINLINE MUST;

1. BE INSTALLED WITH A 4' (FOOT) MINIMUM HORIZONTAL CLEARANCE FROM ALL POTABLE WATERLINES

- 2. BE INSTALLED WITH A 1' (FOOT) OF VERTICAL CLEARANCE AND BE LOCATED UNDER ALL POTABLE WATERLINES AND FIRE LINES.
- 3. WHERE THE RECYCLED WATER IRRIGATION MAINLINES MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A 4" (INCH) MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER IRRIGATION MAINLINE MUST BE INSTALLED IN A CONTINUOUS SLEEVE (PVC CLASS 200 PIPE MINIMUM)

WHICH EXTENDS A MINIMUM OF 10' (FEET) EACH SIDE OF THE POTABLE WATERLINE OR FIRE LINE.

IRRIGATION NOTES

- 1. CONTRACTOR SHALL CAREFULLY PERFORM WORK TO INSURE THAT NO SERVICE INTERRUPTION OF DOMESTIC WATER OCCURS DURING OPERATION HOURS. CONTRACTOR SHALL NOTIFY THE DISTRICT 24 HOURS PRIOR TO ANY SCHEDULED SHUTDOWN OF DOMESTIC OR IRRIGATION WATER.
- 2. IRRIGATION WATER SUPPLY SHALL NOT BE TERMINATED FOR ANY PERIOD LONGER THAN 24 HOURS, IN THE EVENT THAT WATER IS TERMINATED LONGER THAN 24 HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO ANY LANDSCAPE RELATED TO
- 3. CONTRACTOR SHALL DISCONNECT AND CAP ALL EXISTING MAINLINE AT LOCATIONS AS SHOWN ON THE PLANS. ALL FITTINGS (INCLUDING CAPS) 3" AND SMALLER SHALL BE SCH 80 PVC AND ALL FITTINGS LARGER THAN 3" SHALL BE LEEMCO IRON DUCTILE RESTRAINTS.
- 4. ALL NEW WORK SHALL COMPLY WITH CURRENT DISTRICT STANDARDS AND SPECIFICATIONS 5. ALL NEW PRESSURE LINE PIPING SHALL BE PRESSURE TESTED PER EMWD REQUIREMENTS BEFORE CONNECTING TO ANY EXISTING MAINLINE. ANY EXISTING MAINLINE WILL NOT BE
- 6. CONTRACTOR SHALL SLEEVE ALL EXISTING POTABLE PRESSURE LINE PIPING WITHIN 4 FEET OF ANY NEW RECYCLED WATER LINE AS REQUIRED BY EMWD. LOCATIONS OF DOMESTIC WATER PIPING IS SHOWN ON PLANS TO BE THE BEST KNOWLEDGE OF EMWD. IN THE EVENT ANY DISCREPANCY BETWEEN FIELD CONDITIONS AND PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SEPARATIONS SLEEVING AS REQUIRED BY EMWD WITHOUT ADDITIONAL COMPENSATION.
- 7. ALL EXISTING VALVE BOXES THAT ARE UNEVEN, OUT OF PLUMB, ABOVE OR BELOW GRADE SHALL BE ADJUSTED TO GRADE PER DISTRICT DETAILS.
- 8. ALL NEW VALVES AND PIPING SHALL BE MEASURED AND AS-BUILT PER EMWD REQUIREMENTS PRIOR TO BACKFILLING. ALL EXISTING PIPING LOCATED DURING
- CONSTRUCTION SHALL BE IDENTIFIED, MEASURED AND INCLUDED WITH THE AS-BUILTS. 9. ALL NEW PURPLE VALVE BOX LID SHALL BE HEAT BRANDED TO INDICATE THE
- CORRESPONDING CONTROLLER AND STATION NUMBER PER DISTRICT DETAIL. 10.INSTALL PURPLE CAPS FOR ALL SPRAY HEADS AND ROTORS THAT ARE CONNECTED TO
- 11.CONTRACTOR TO LOCATE AND REDLINE (DOCUMENT) ALL POTABLE AND FIRE WATER LINE ON-SITE FACILITIES WITHIN CLOSE PROXIMITY OF NEW RECYCLED WATER LINES.
- 12.ALL WORK SHALL CONFORM TO EASTERN MUNICIPAL WATER DISTRICT'S CURRENT
- STANDARDS, SPECIFICATIONS AND GUIDELINES FOR RECYCLED WATER. 13.IN THE EVENT OF ANY DISCREPANCY BETWEEN PLANS AND EMWD STANDARD GUIDELINES / SPECIFICATIONS. THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER PLANS AS
- DETERMINED BY THE DISTRICT. 14.CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT PRIOR TO ANY DIGGING
- AND SHALL BE RESPONSIBLE FOR ANY DAMAGED UTILITIES. 15.CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING AND OR REPLACING ANY DAMAGE TO EXISTING LANDSCAPE AND IRRIGATION REQUIRED TO RETROFIT PROJECT TO
- RECYCLED WATER. 16.CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIM / HERSELF WITH EXISTING SITE
- CONDITIONS PRIOR TO SUBMITTAL OF BID. 17.IF FIELD CONDITIONS ARE DIFFERENT FROM WHAT IS SHOWN ON THE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER'S AUTHORIZED REPRESENTATIVE
- PRIOR TO CONTINUING WITH SITE IMPROVEMENTS. 18.ANY COMPONENTS OF THE IRRIGATION SYSTEM WHICH ARE REPLACED / REPAIRED MUST BE REPLACED WITH PURPLE RECYCLED WATER COMPONENTS PER EMWD STANDARDS.
- 19. ALL WORK MUST CONFORM TO VALLEY-WIDE RECREATION AND PARK DISTRICT STANDARDS AND SPECIFICATIONS. IN THE EVENT OF ANY CONFLICT BETWEEN STANDARDS, THE MORE STRINGENT STANDARD SHALL PREVAIL, UNLESS OTHERWISE APPROVED BY BOTH EMWD AND VALLEY-WIDE.

SHEET INDEX

- **COVER SHEET**
- 2 INDEX MAP
- 3 INDEX MAP
- 4 IRRIGATION PLAN
- **5** IRRIGATION PLAN
- **6 IRRIGATION PLAN**
- 7 IRRIGATION PLAN **8 IRRIGATION PLAN**
- 9 IRRIGATION DETAILS
- 10 IRRIGATION DETAILS
- 11 IRRIGATION SPECIFICATIONS

HOLD HARMLESS AND INDEMNIFICATION CLAUSE

CONTRACTOR AGREES TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, THE CSA, COUNTY OF LOCAL JURISDICTION, THE CITY OF WINCHESTER, VALLEY-WIDE RECREATION AND PARK DISTRICT AND EASTERN MUNICIPAL WATER DISTRICT HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE CSA, AND COUNTY OF LOCAL JURISDICTION.

EXISTING POTABLE IRRIGATION DATA TABLE EXISTING POTABLE METER EXISTING P.O.C. | SERVICE ORDER | HISTORICAL | EXISTING POTABLE LOCATION (SO) NUMBER USAGE (AF/Y) METER SIZE (IN) POURROY ROAD 187350 70 6.61 TOTAL 6.61



RECYCLED METER INFORMATION TABLE							
POC ID	POC STA.	DWG#	IRRIGATED AREA (SF)	DEMAND (GPM)	ANNUAL USAGE ACRE FEET	LATERAL SIZE (IN.)	METER SIZE (IN.)
POC #70	59+30.00	D-60495	75,500	50	6.61	2"	1.5"
		TOTAL	75,500	50	6.61		

DIG ALERT Call: TOLL FREE 1-800-227-2600

ACCEPTED BY BENCH MARK DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT **ACCEPTANCE** DATE VERTICAL DATUM TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

1-20-2023 DRAWN BY: CHECKED BY:

REVISIONS POC 70 POC RELOCATION DEPARTMENT NEW BUSINESS P. OPERATIONS BY **ENGINEERING** POS ENGINEER

ACCEPTED BY EASTERN MUNICIPAL WATER DISTRICT SENIOR CIVIL ENGINEER **ACCEPTANCE** DATE 1/23/23 Olgits by signed by David Wuerth
ON: C-US, E-wuerthd@emwd.org, CN-David Wuerth
Date: 2023-02-02-09:19-06-08'00' 1/23/23

VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS** POC #70 **COVER SHEET**

PCWO. RWUE: COORD. 14-A-11 | RWUP: D-66132

EMWD STANDARD NOTE

CONSTRUCTION NOTE
EASTERN MUNICIPAL WATER DISTRICT REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EASTERN MUNICIPAL WATER DISTRICT FIELD ENGINEERING DEPARTMENT AT (951) 928-3777, EXTENSION 4830.

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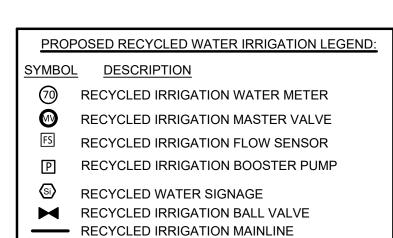
COLOR CODING NOTES

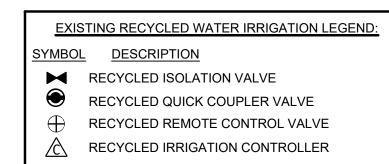
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FOR NEW PROPOSE PIPE INSTALLATION:

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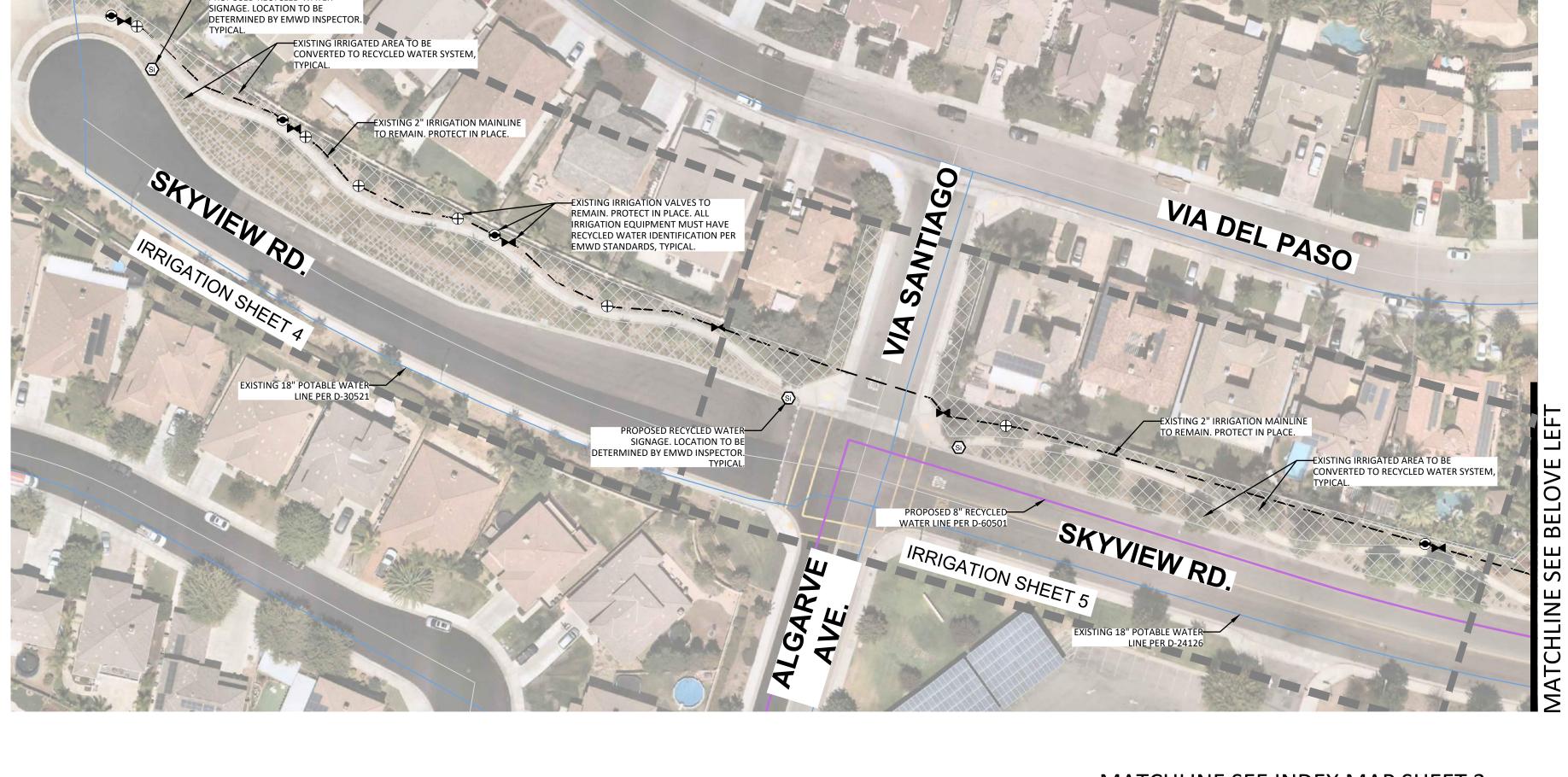


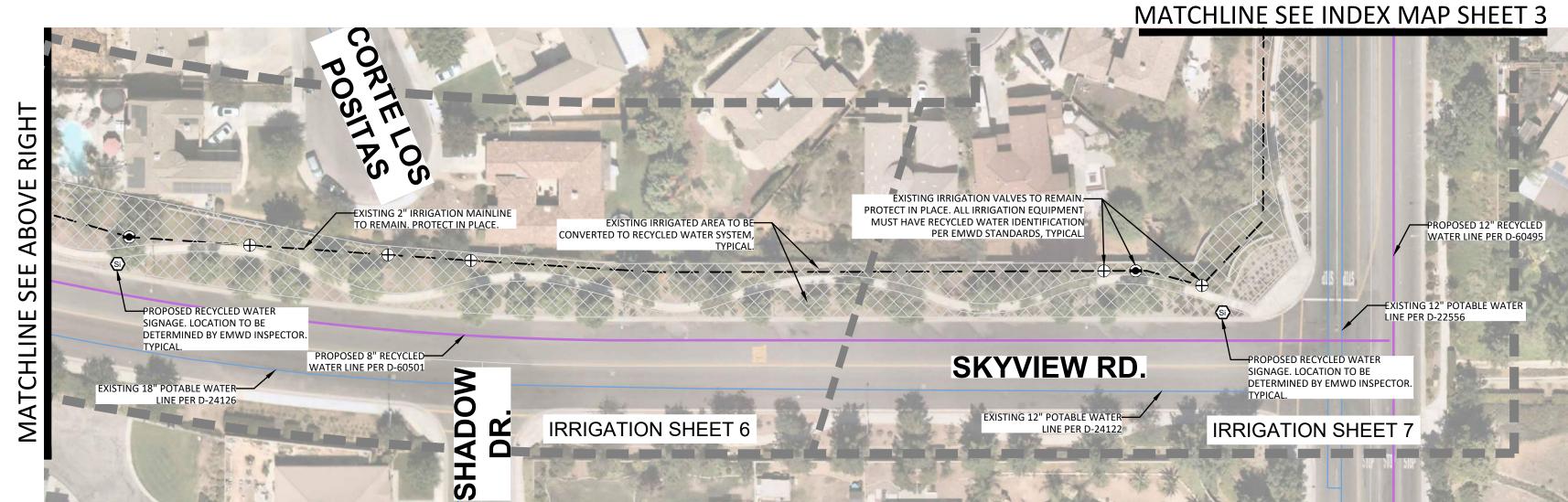


— IRRIGATION MAINLINE

	POTABLE WATER LEGEND:
SYMBOL	DESCRIPTION
A	POTABLE WATER METER
В	POTABLE BACKFLOW PREVENTER
FS	POTABLE WATER FLOW SENSOR
MV	POTABLE WATER MASTER VALVE

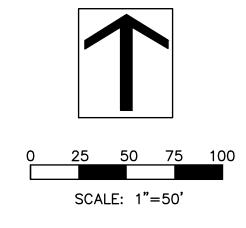






VALVE BOX NOTE:

- 1. CONTRACTOR TO REPLACE EXISTING LIDS OF IRRIGATION VALVE BOXES. VALVE BOX LID SHALL BE PURPLE AND HEAT BRANDED WITH REMOTE CONTROL VALVE STATION AND COMPONENT
- 2. CONTRACTOR TO ADJUST EXISTING VALVE BOXES TO GRADE PER VALLEY-WIDE STANDARD AND INSTALL RECYCLED WATER ID TAG.
- 3. ALL DAMAGED VALVE BOXES SHALL BE REPLACED WITH NEW PURPLE COLOR VALVE BOXES AND HEAT BRANDED LID AND INSTALL RECYCLED WATER ID TAG WITHIN EACH BOX.



DIG A	LERT
BEFORE YOU OG	Call: TOLL FRE 1-800-227-2600 OR 811
TWO FULL WORKING D	AYS BEFORE YOU

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	VERTICAL DATUM:						
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								1 Wuerth SENIOR CIVIL ENGINEER	1/23/23 DATE	
							DEPARTMENT	ACCEPTANCE	DATE	1
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VALLEY-WIDE RECREATION AND PARK DISTRICT			WO: 77444
WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT			RWUE:
IMPROVEMENTS POC #70	COORD.	14-A-10 14-A-11	RWUP:
INDEX MAP	I.D.	98	SHT. 2 OF 11
	S.A.	34	D-66133

EMWD STANDARD NOTE

CONCEDUCTION NOTE

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PROPOSED RECYCLED WATER IRRIGATION LEGEND: SYMBOL DESCRIPTION RECYCLED IRRIGATION WATER METER RECYCLED IRRIGATION MASTER VALVE

RECYCLED IRRIGATION FLOW SENSOR

RECYCLED IRRIGATION BOOSTER PUMP

RECYCLED IRRIGATION MAINLINE

EXISTING RECYCLED WATER IRRIGATION LEGEND: SYMBOL DESCRIPTION

RECYCLED ISOLATION VALVE

RECYCLED QUICK COUPLER VALVE
RECYCLED REMOTE CONTROL VALVE

RECYCLED IRRIGATION CONTROLLER

— — IRRIGATION MAINLINE

POTABLE WATER LEGEND:

SYMBOL DESCRIPTION

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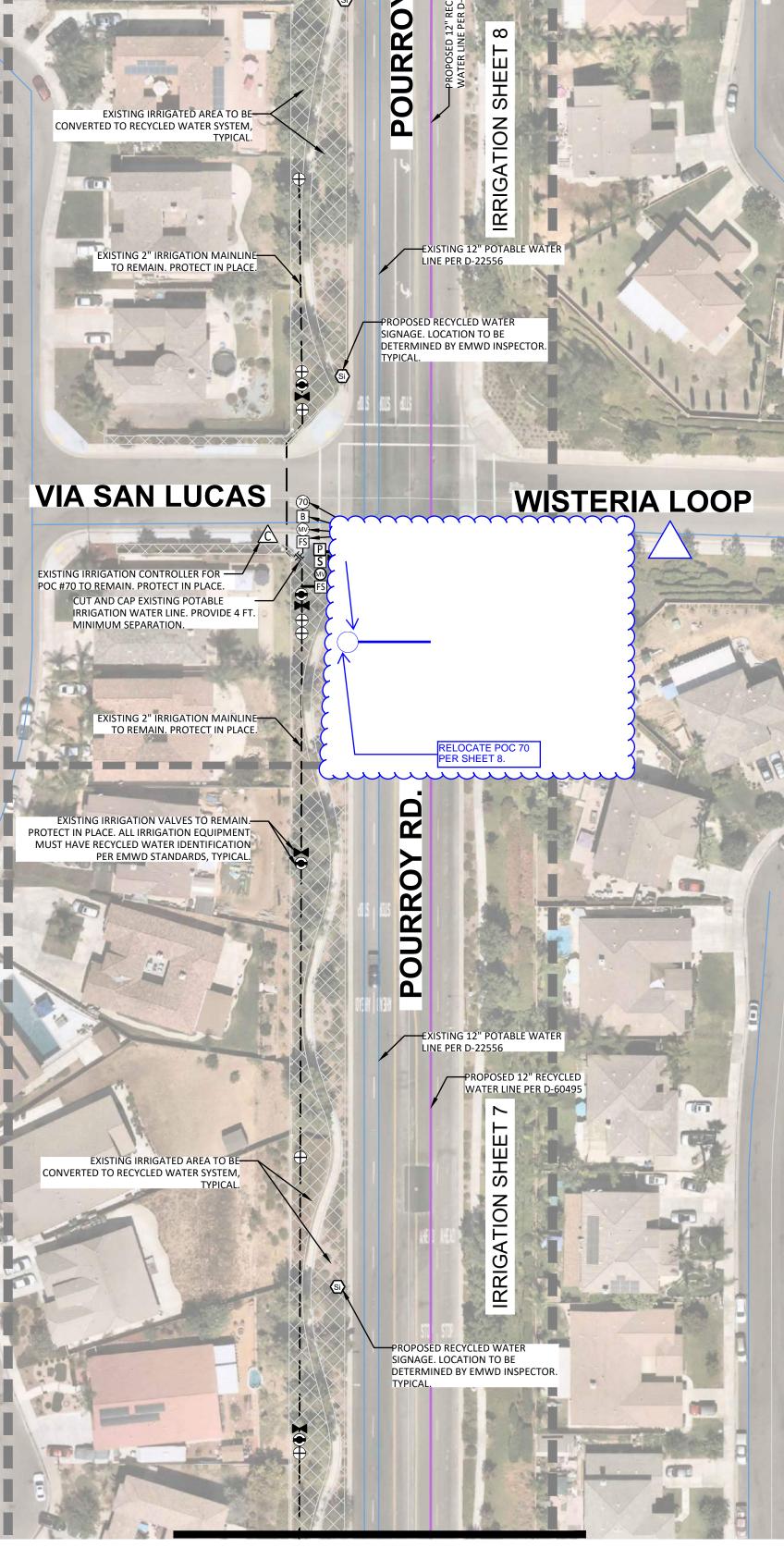
POTABLE WATER MASTER VALVE



RECYCLED WATER IRRIGATED AREA (75,500 SF)

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SIGNAGE. LOCATION TO BE

DETERMINED BY EMWD INSPECTOR.

MATCHLINE SEE INDEX MAP SHEET 2

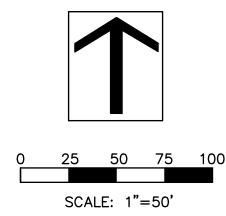
Dynamic Pressure Loss Calculation VALLEY-WIDE RECREATION AND PARK DISTRICT Client Name: Project Name: POURROY ROAD, WINCHESTER, CA Water Meter / POC No.: 70 / POC #70 RECYCLED Domestic / Recycled: 1,389 ft. POC Elevation: 1,490 ft. Static Pressure: EMWD (951) 928-3777 Water Source & Phone #: October 22, 2022 A30 (FURTHEST VALVE ON POC #70) Valve Station No.: Valve Flow Rate: Highest Elevation Served: 1,370 ft. Equipment Length / Qty. PSI Loss 1 1/2 in. Water Meter N/A Basket Strainer 2 in. 21 gpm 6.7 psi 2,100 ft. Mainline (PVC) Mainline (PVC) 2 in. 50 gpm Master Valve N/A 0.8 psi 2 in. 50 gpm N/A 2 1/2 in. 50 gpm 1 1/2 in. 21 gpm N/A VARIES VARIES VARIES Lateral Line N/A Fittings (Estimate 10%) Elevation Change Pressure Req. to Operate Heads 40.0 psi Total Pressure Required 57.4 psi Booster Pump Design Boost 20.0 psi Available Residual Pressure 6.3 psi

BARRETT ENGINEERED PUMPS

SPECIALISTS IN PUMPS AND PUMPING SYSTEMS PROJECT: VALLEY WIDE - POURROY RD.

PROJECT: VALLEY WIDE - POURROY RD. SYSTEM DESIGN PARAMETERS - POC #70

IBGA5-1.5-2-2/VFD-F System Model Number		50 GPM System Design Flow Rate	58 PS System	PSI 2 INCH n Design Pressure System Piping Siz		
44 PSI Minimum Suction Pressure		230 VAC System Electrical Voltage		1 PHASE 60 Hz System Electrical Phase and Frequency		
15GA5-1 ¹ / ₄ " Pump Model Number		50 GPM Pump Capacity (GPM)		60 FEET Pump Total Head	(Feet)	
1 1/2 HP Pump Horsepower	3500 RPM Pump RPM	9 AMPS @ 230/1 ph System Full Load Amperage				



DIG A	LERT
BEFORE POLICIO	Call: TOLL FREE 1-800-227-2600 OR 811

TWO FULL WORKING DAYS BEFORE YOU DIG

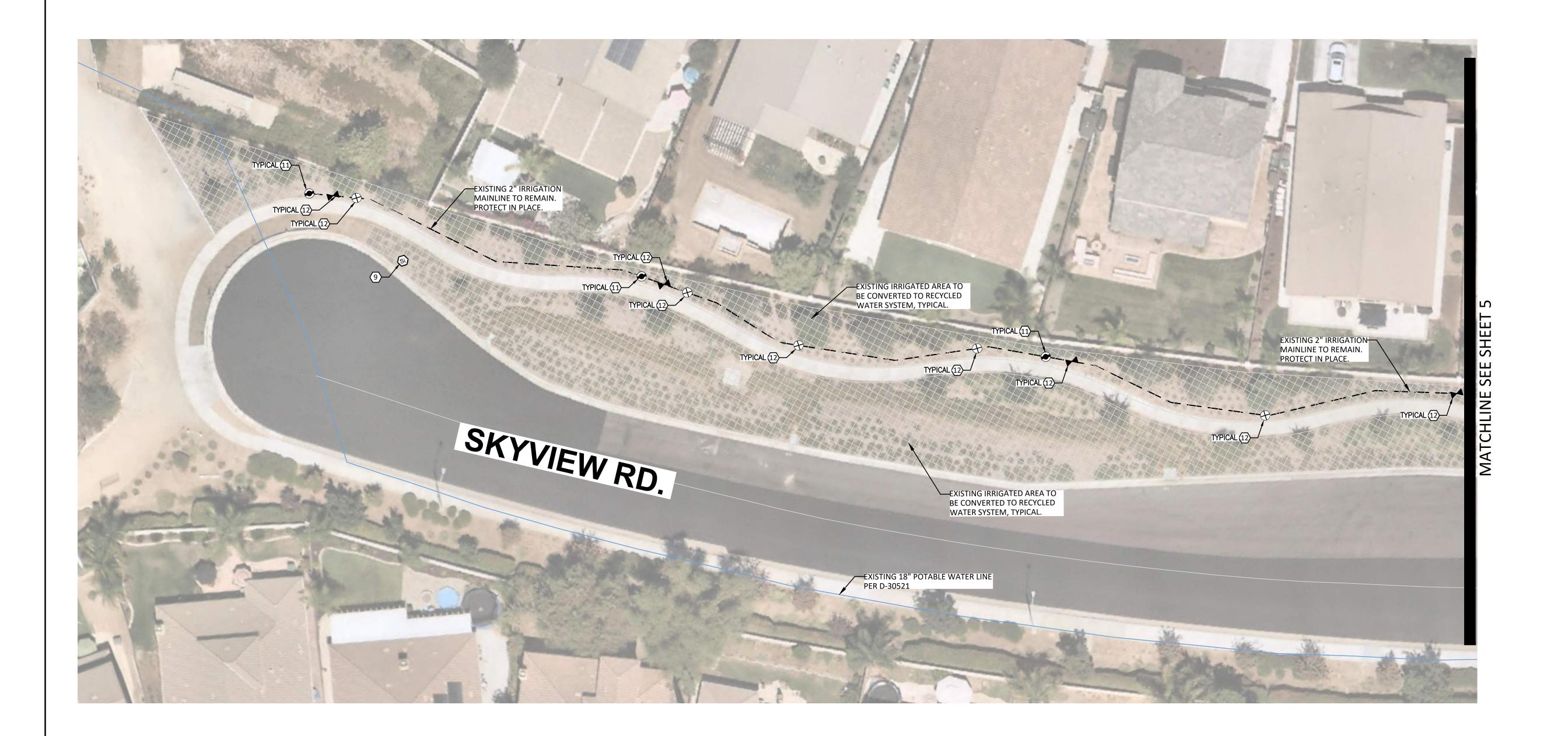
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	ACCEPTED BY:		
EA	STERN MUNICIPAL WATER DIST	RICT	VA
Joh	n Wuerth	1/23/23	
	SENIOR CIVIL ENGINEER	DATE	
MENT	ACCEPTANCE	DATE]
INESS P.C.	Zeru A man	1/23/23]
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LEY-WIDE RECREATION AND PARK DISTRICT	
WINCHESTER, CA.	
RECYCLED WATER IRRIGATION RETROFIT IMPROVEMENTS	
POC #70	
INDEX MAP	

STRICT			WO: 77444
			PCWO:
OFIT	DOPP.		RWUE:
	COORD.	14-A-10 14-A-11	RWUP:
	I.D.	98	SHT. <u>3</u> OF <u>11</u>
	S.A.	34	D-66134



CHECKED BY:

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

INSTALL NEW 1.5" RECYCLED WATER METER PER EMWD STANDARD PB-11. WATER METER WILL BE PROVIDED BY EMWD.

PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL PER DETAIL

PROVIDE AND INSTALL YARDNEY STRAINER MCS2-1. SIZE: 2" WITH MAX. FLOW 110 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.

PROVIDE AND INSTALL BUCKNER SUPERIOR 3200 NORMALLY CLOSED MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-1.5B (SIZE: 1.5"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE

PROVIDE AND INSTALL 2" SCH.40 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.

PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC SCH.40 CONDUIT. INSTALL PULL BOX AT ANY CHANGE IN DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.

PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.

CUT AND CAP EXISTING IRRIGATION MAINLINE-PROVIDE A MINIMUM OF 4FT. SEPARATION AND REMOVE UNUSED PIPE.

REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL NEW PURPLE VALVE BOX PER DETAIL

REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.

EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED (BY OTHERS)

EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.

REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP

PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL

IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD

EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

COLOR CODING

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

POTABLE AND RECYCLED WATER SEPARATION NOTE

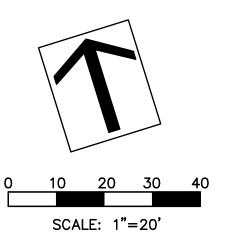
RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

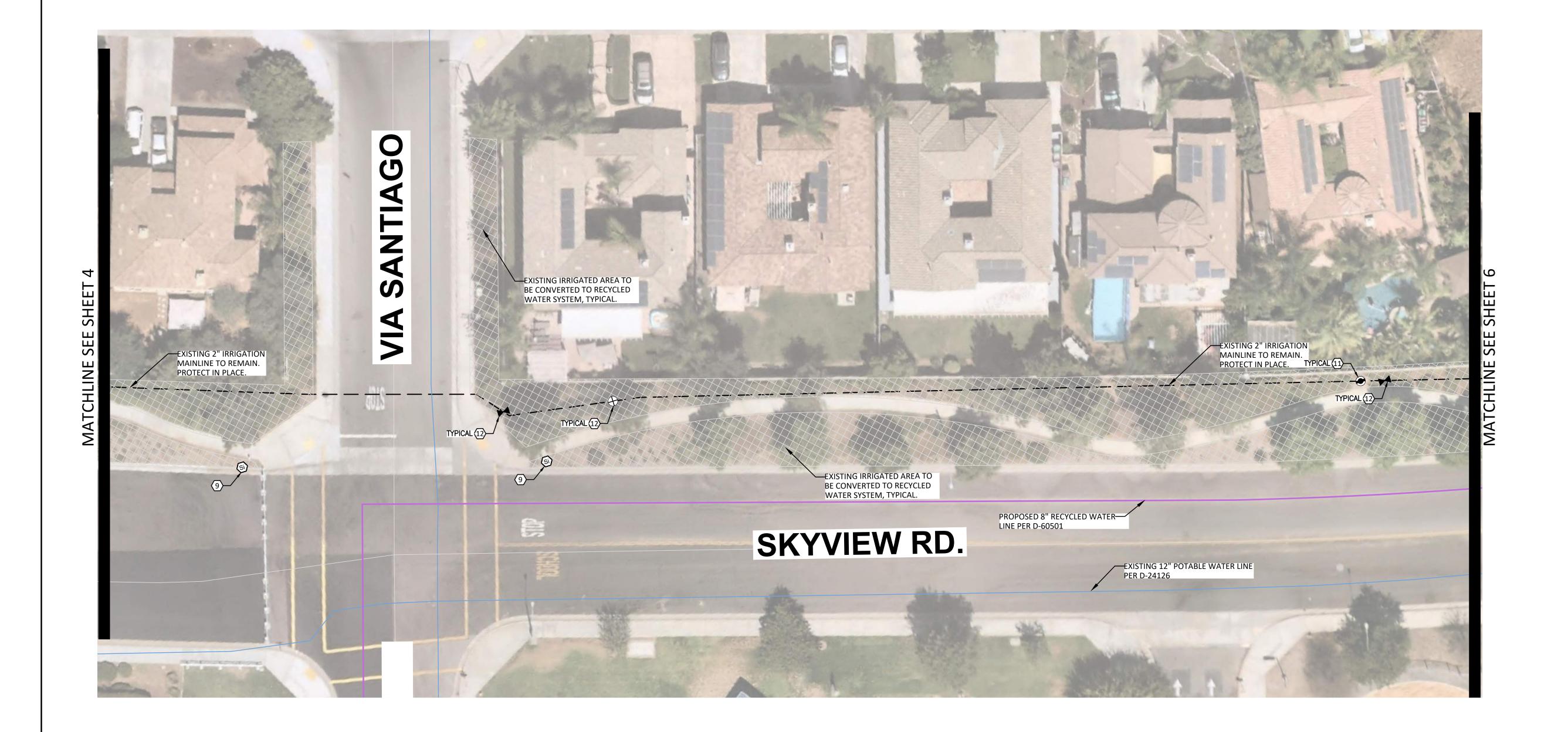
POS ENGINEER

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



DIG ALERT ACCEPTED BY: ACCEPTED BY: BENCH MARK REVISIONS VALLEY-WIDE RECREATION AND PARK DISTRICT EASTERN MUNICIPAL WATER DISTRICT DESCRIPTON: WINCHESTER, CA. VALLEY-WIDE RECREATION AND PARK DISTRICT John Wuerth Call: TOLL FREE RECYCLED WATER IRRIGATION RETROFIT LOCATION: **IMPROVEMENTS** 14-A-10 COORD. 14-A-11 RWUP: DEPARTMENT ACCEPTANCE DATE DEPARTMENT ACCEPTANCE DATE POC #70 1-20-2023 Zeru A man 1/23/23 NEW BUSINESS P.C VERTICAL DATUM: David Wuerth **IRRIGATION PLAN** 1/23/23 OPERATIONS DRAWN BY: DATE BY ENGINEERING TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM: D-66135



CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

INSTALL NEW 1.5" RECYCLED WATER METER PER EMWD STANDARD PB-11. WATER METER WILL BE PROVIDED BY EMWD.

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QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING
COVER — INSTALL NEW PURPLE VALVE BOX PER DETAIL

REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.

EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED

(BY OTHERS)

EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP

EXISTING LINE. REMOVE ALL UNUSED PIPE.

REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP

MAINLINE.

PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL

IRRIGATION DRAWING NOTE:

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COLOR CODING

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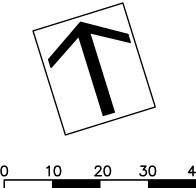
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INSTALLATION NOTES

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NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



SCALE: 1"=20'

DIG ALERT

BENCH MARK

DESCRIPTON:

LOCATION:

VERTICAL DATUM:

TWO FULL WORKING DAYS BEFORE YOU DIG

BENCH MARK

DESCRIPTON:

LOCATION:

HORIZONTAL DATUM:

BENCH MARK

DESCRIPTON:

LOCATION:

VALLEY-WIDE RECREATION AND PARK DISTRICT

DEPARTMENT

ACCEPTANCE

DEPARTMENT

ACCEPTANCE

DATE

1-20-2023

HORIZONTAL DATUM:

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
RECYCLED WATER IRRIGATION RETROFIT
IMPROVEMENTS
POC #70

IRRIGATION PLAN



CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

INSTALL NEW 1.5" RECYCLED WATER METER PER EMWD STANDARD PB-11. WATER METER WILL BE PROVIDED BY EMWD.

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COLOR CODING

HEAD TO EMWD FOR APPROVAL.

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POTABLE AND RECYCLED WATER SEPARATION NOTE

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INSTALLATION NOTES

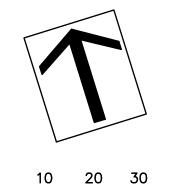
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DATE

1/23/23

1/23/23

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



SCALE: 1"=20'

DIG ALERT Call: TOLL FREE

BENCH MARK ACCEPTED BY: DESCRIPTON: VALLEY-WIDE RECREATION AND PARK DISTRICT LOCATION: DEPARTMENT ACCEPTANCE DATE 1-20-2023 VERTICAL DATUM: TWO FULL WORKING DAYS BEFORE YOU DIG HORIZONTAL DATUM:

ACCEPTED BY: REVISIONS EASTERN MUNICIPAL WATER DISTRICT DEPARTMENT ACCEPTANCE Zeru A man NEW BUSINESS P.0 David Wuerth OPERATIONS DATE BY ENGINEERING CHECKED BY: POS ENGINEER

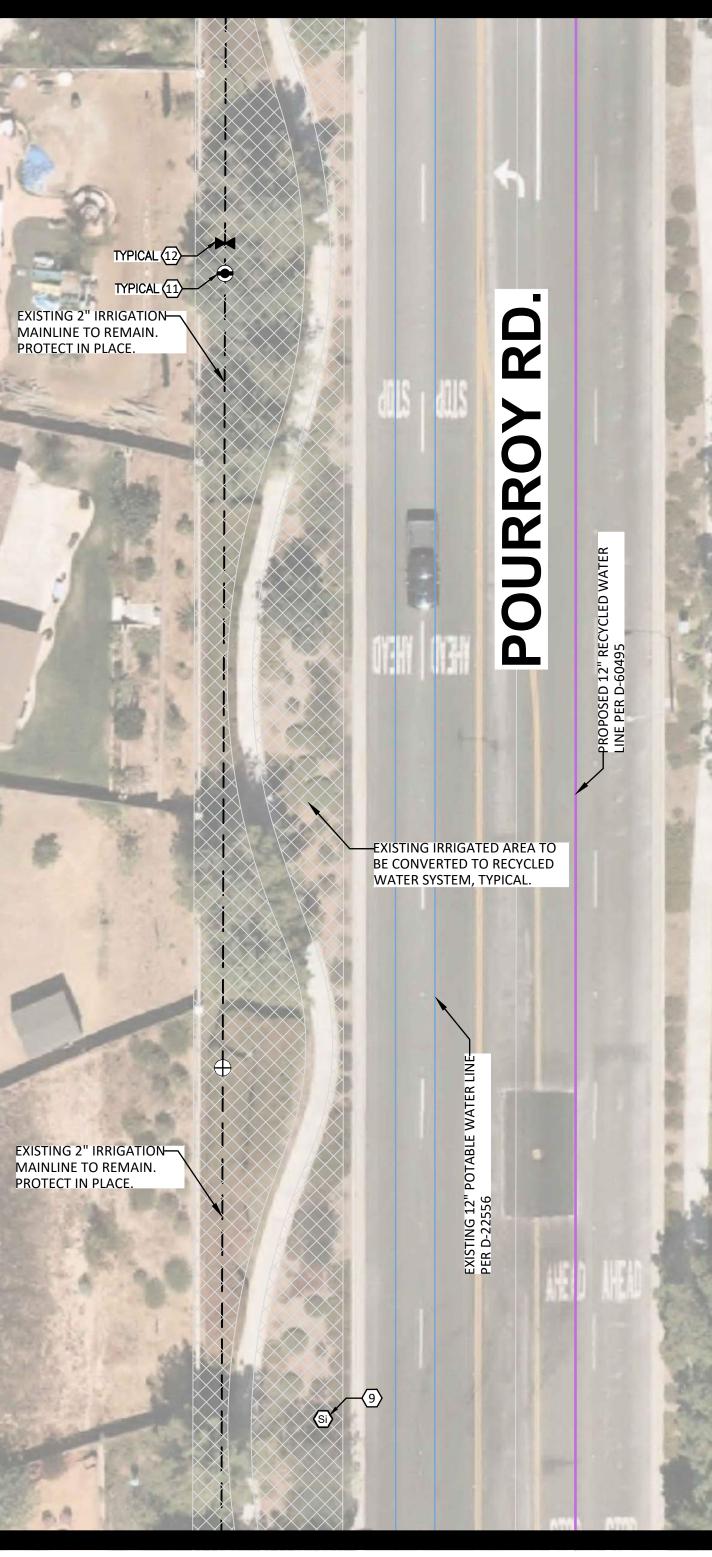
VALLEY-WIDE RECREATION AND PARK DISTRICT WINCHESTER, CA. RECYCLED WATER IRRIGATION RETROFIT **IMPROVEMENTS** POC #70

IRRIGATION PLAN

14-A-10 COORD. 14-A-11 RWUP: D-66137

MATCHLINE SEE BELOW RIGHT EXISTING 2" IRRIGATION— MAINLINE TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATED AREA TO BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. RD RRO EXISTING 2" IRRIGATION— MAINLINE TO REMAIN. PROTECT IN PLACE. POU EXISTING 2" IRRIGATION— MAINLINE TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATED AREA TO BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. PROPOSED 8" RECYCLED WATER— LINE PER D-60501 SKYVIEW RD. EXISTING 12" POTABLE WATER LINE— PER D-24122

MATCHLINE SEE SHEET 8



MATCHLINE SEE ABOVE RIGHT

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

- INSTALL NEW 1.5" RECYCLED WATER METER PER EMWD STANDARD PB-11. WATER METER WILL BE PROVIDED BY EMWD.
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- EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.

(BY OTHERS)

- REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP
- PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER
- PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER
 MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL
 NUMBER

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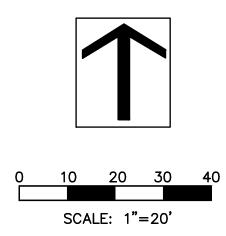
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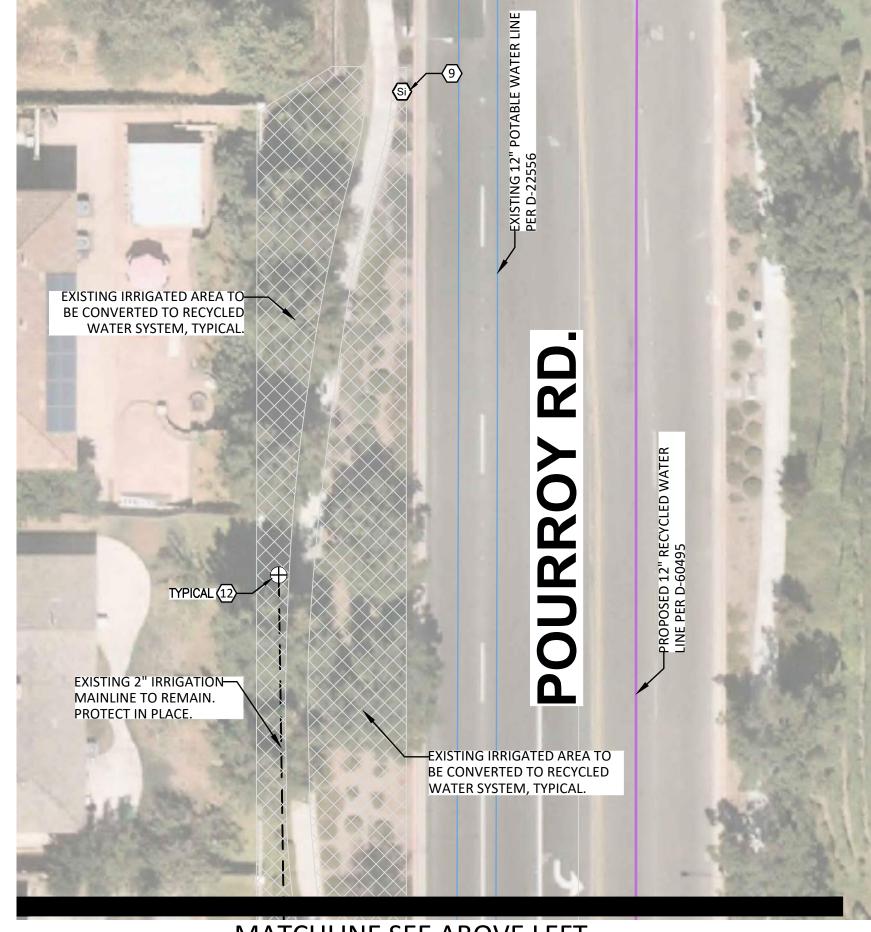


DIG ALER I	Ė
Call: TOLL FREE 1-800-227-2600 OR 811	
TWO FULL WORKING DAYS BEFORE YOU DIG	

ENCH MARK		ACCEPTED BY:	
DESCRIPTON:		VALLEY-WIDE RECREATION AND PARK DIST	RICT
LOCATION:			
	DEPARTMENT	ACCEPTANCE	DATE
		Den Win	1-20-2023
VERTICAL DATUM:			
HORIZONTAL DATUM:			

					REVISIONS			EAST	ACCEPTED BY: ERN MUNICIPAL WATER DIS	STRICT	
									Wuerth SENIOR CIVIL ENGINEER	1/23/2 DATE	
	†							DEPARTMENT	ACCEPTANCE		DATE
	DATE:							NEW BUSINESS P.C.	Zeru A man		1/23/23
								OPERATIONS	David Wuerth		1/23/23
_	DRAWN BY:	DATE	BY	MARK		APPR.	DATE	ENGINEERING			• •
	CHECKED BY:		ENGINEER	3	DESCRIPTION	EN	1WD	POS ENGINEER			

MATCHLINE SEE BELOW RIGHT EXISTING 2" IRRIGATION— MAINLINE TO REMAIN. PROTECT IN PLACE. EXISTING IRRIGATED AREA TO— BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL. **WISTERIA VIA SAN LUCAS** LOOP EXISTING 8" POTABLE WATER LINE— PER D-24971 EXISTING IRRIGATION CONTROLLER FOR POC #70 TO REMAIN. PROTECT IN PLACE EXISTING IRRIGATED AREA TO BE CONVERTED TO RECYCLED WATER SYSTEM, TYPICAL.



MATCHLINE SEE ABOVE LEFT

IRRIGATION DRAWING NOTE:

THIS RETROFIT PLANS ARE BASED ON IRRIGATION PLANS NOT PREPARED BY EMWD / EMWD REPRESENTATIVE.

EMWD AND OR EMWD REPRESENTATIVES ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. IT ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, EQUIPMENT, UTILITIES AND REQUIREMENTS.

COLOR CODING

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOX LIDS SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

MATCHLINE SEE SHEET 7

ROTOR HEADS MAYBE PAINTED PURPLE WHEN REPLACEMENT CAPS OR COLLARS ARE NOT AVAILABLE. CONTRACTOR TO SUBMIT QUANTITIES, MANUFACTURER AND MODEL NUMBER OF THE HEAD TO EMWD FOR APPROVAL.

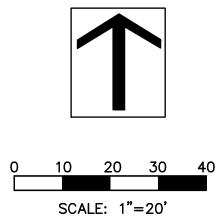
POTABLE AND RECYCLED WATER SEPARATION NOTE

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS AT COMMENCEMENT OF WORK. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN STANDARDS, ONE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



WINCHESTER, CA.

IMPROVEMENTS

POC #70

IRRIGATION PLAN

DIG ALERT	BENCH MARK DESCRIPTON:		ACCEPTED BY:			3/24/23	JP	REVIS POC 70 POC RE			EAST	ACCEPTED BY: FERN MUNICIPAL WATER D	ISTRICT
Call: TOLL FREE 1-800-227-2600	LOCATION:	VAL	LLEY-WIDE RECREATION AND PA	RK DISTRICT		0/2 1/20	01	/ TOOTOTOONE	LOGATION			Wuerth SENIOR CIVIL ENGINEER	
0R	-	DEPARTMENT	ACCEPTANCE	DATE							DEPARTMENT	ACCEPTANCE	DATE
811			Dentin	1-20-2023	DATE:						NEW BUSINESS P.C.	Zeru A man	1/23/23
	VERTICAL DATUM:					DATE	- DV	MARK		1000 0475	OPERATIONS	David Wuerth	1/23/23
	HODIZONITAL DATUM:				DRAWN BY:	DATE	BY	MARK		APPR. DATE	ENGINEERING		
TWO FULL WORKING DAYS BEFORE YOU D	DIG HORIZONTAL DATOM:				CHECKED BY:		ENGINEE	R	DESCRIPTION	EMWD	POS ENGINEER		

LDC-PC2-APP (01-13-23)

D-66139

CONSTRUCTION LEGEND

SYMBOL DESCRIPTION

INSTALL NEW 1.5" RECYCLED WATER METER PER EMWD STANDARD PB-11. WATER METER WILL BE PROVIDED BY EMWD.

PROVIDE AND INSTALL NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL PER DETAIL

PROVIDE AND INSTALL YARDNEY STRAINER MCS2-1. SIZE: 2" WITH MAX. FLOW 110 GPM. INSTALL ABOVE GROUND WITH STAINLESS STEEL ENCLOSURE PER MANUFACTURER STANDARD AND DETAIL.

PROVIDE AND INSTALL BUCKNER SUPERIOR 3200 NORMALLY CLOSED MASTER VALVE (SIZE: 2") PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL CALSENSE FLOW SENSOR FM-1.5B (SIZE: 1.5"). INSTALL PER DETAIL. RUN WIRES TO EXISTING IRRIGATION CONTROLLER LOCATION.

PROVIDE AND INSTALL 1" BALL VALVE INSIDE ROUND PURPLE

PROVIDE AND INSTALL 2" SCH.40 PVC PURPLE RECYCLED WATER IRRIGATION MAINLINE (24" DEEP MIN.) AND CONNECT TO EXISTING IRRIGATION POC AS SHOWN ON PLAN.

PROVIDE AND INSTALL 14GA. VALVE WIRES FOR MASTER VALVE AND P7162D PAIGE CABLE FOR FLOW SENSOR INSIDE A 1.5" PVC SCH.40 CONDUIT. INSTALL PULL BOX AT ANY CHANGE IN DIRECTION. CONNECT TO EXISTING IRRIGATION CONTROLLER.

PROVIDE AND INSTALL RECYCLED WATER SIGNAGE PER EMWD STANDARD. EXACT LOCATION WILL BE DETERMINED BY EMWD INSPECTOR.

CUT AND CAP EXISTING IRRIGATION MAINLINE-PROVIDE A MINIMUM OF 4FT. SEPARATION AND REMOVE UNUSED PIPE.

REPLACE EXISTING QUICK COUPLER WITH NELSON 7645 (1") QUICK COUPLER VALVE WITH ACME THREAD AND PURPLE LOCKING COVER - INSTALL NEW PURPLE VALVE BOX PER DETAIL

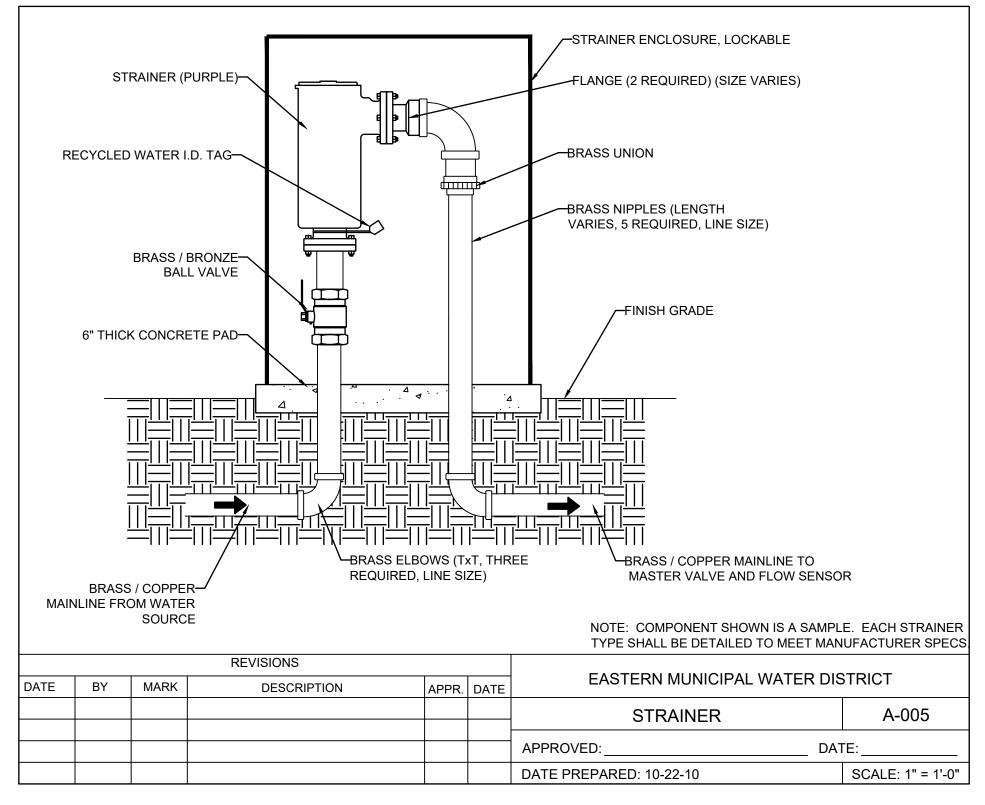
REPLACE ALL EXISTING IRRIGATION VALVE BOX'S LIDS ONLY WITH PURPLE RECYCLED WATER AND LABEL ACCORDINGLY.

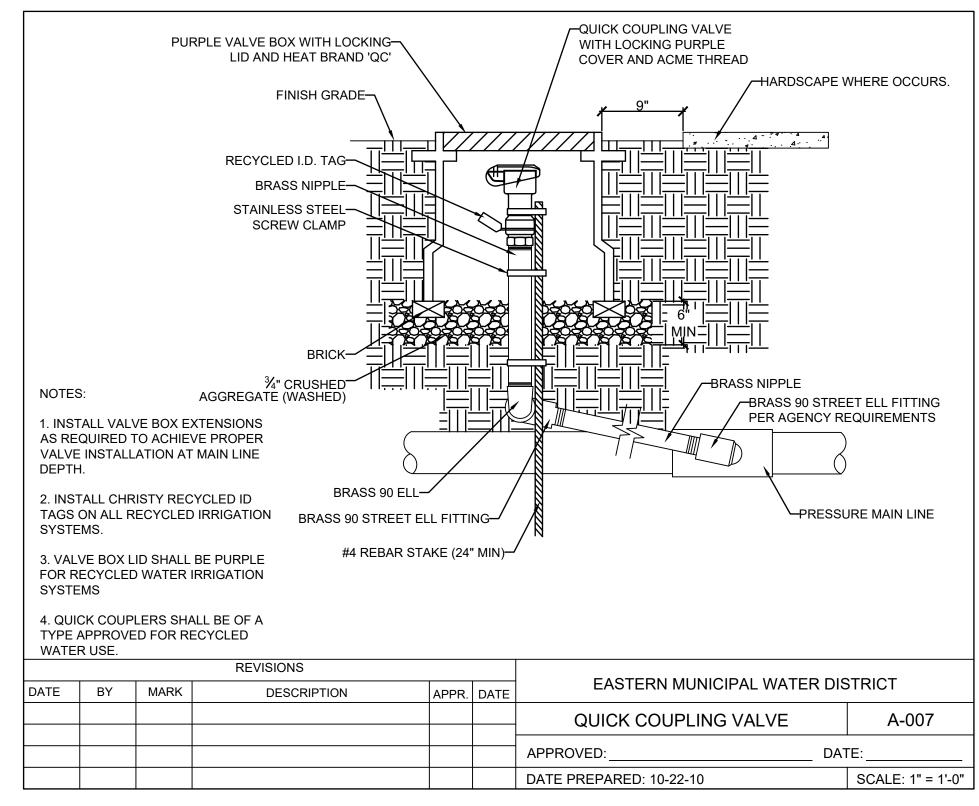
EXISTING DOMESTIC IRRIGATION WATER METER TO BE REMOVED (BY OTHERS)

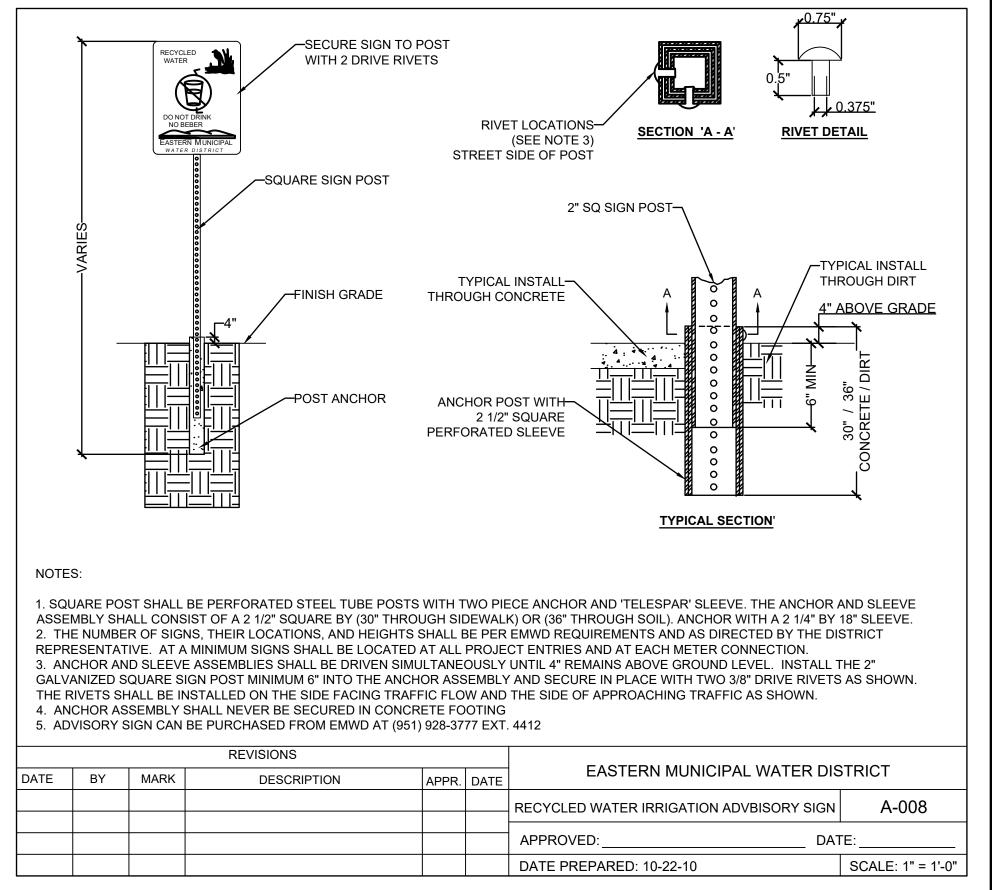
EXISTING BACKFLOW PREVENTER TO BE REMOVED. CUT AND CAP EXISTING LINE. REMOVE ALL UNUSED PIPE.

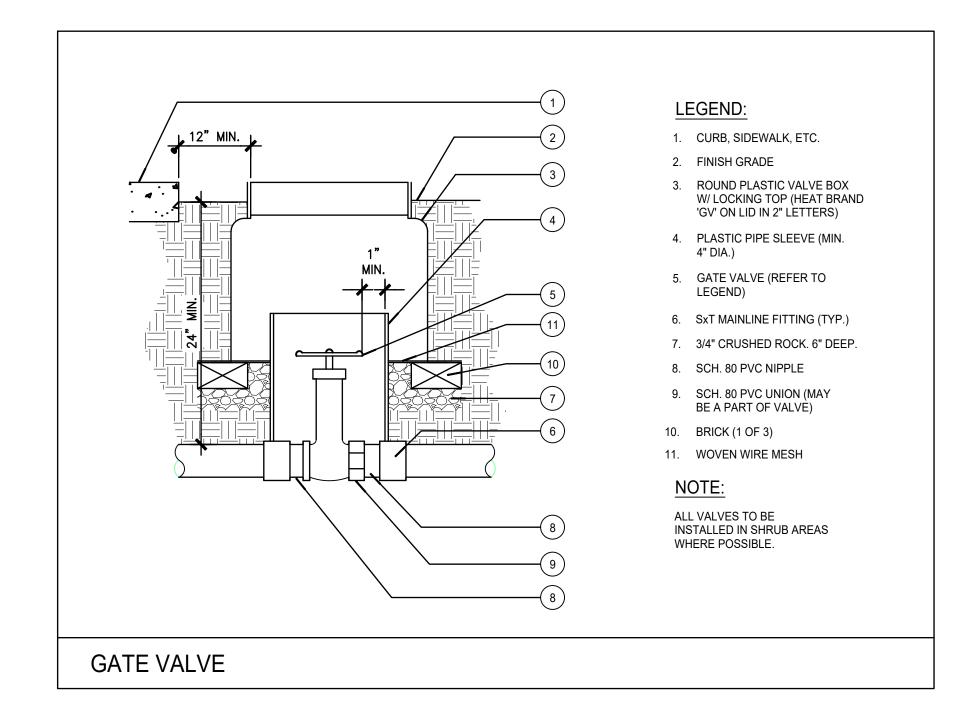
REMOVE EXISTING MASTER VALVE AND FLOW SENSOR. CUT AND CAP

PROVIDE AND INSTALL NEW IRRIGATION BOOSTER PUMP PER MANUFACTURER STANDARDS. SEE IRRIGATION PLAN FOR MODEL NUMBER. CONTRACTOR TO PROVIDE POWER CONNECTION FROM EXISTING METER PEDESTAL.











HAVE PURPLE CAPS.

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE

ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOXES AND LIDS SHALL BE PURPLE PER

INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK"

IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL

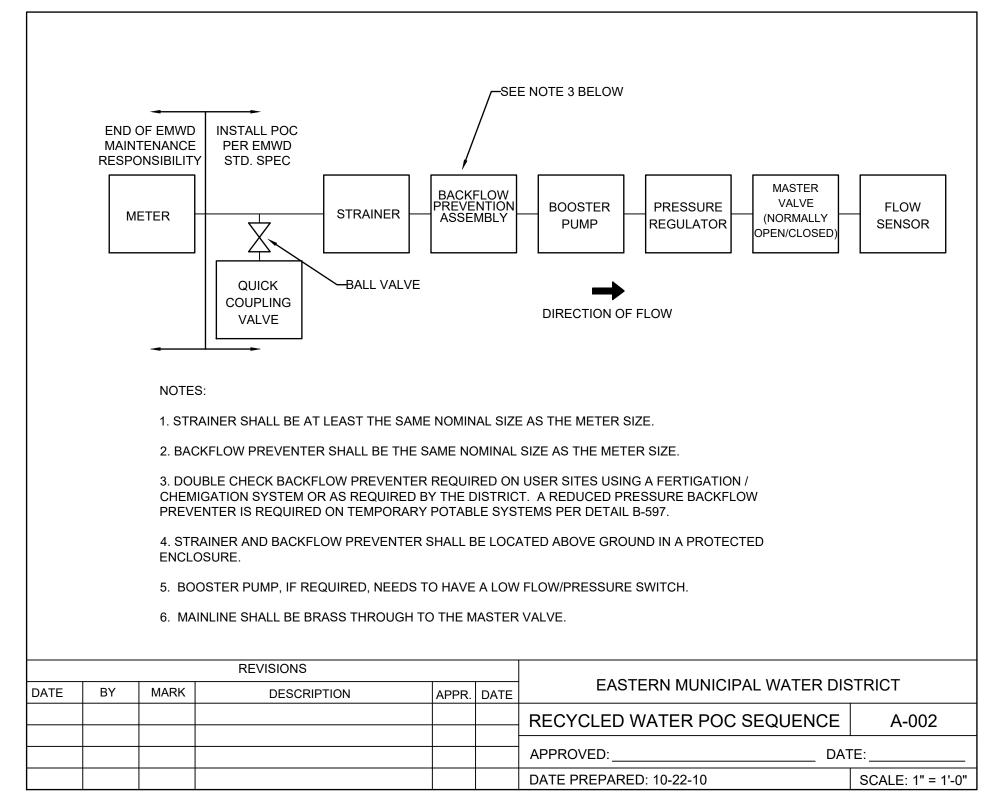
EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED

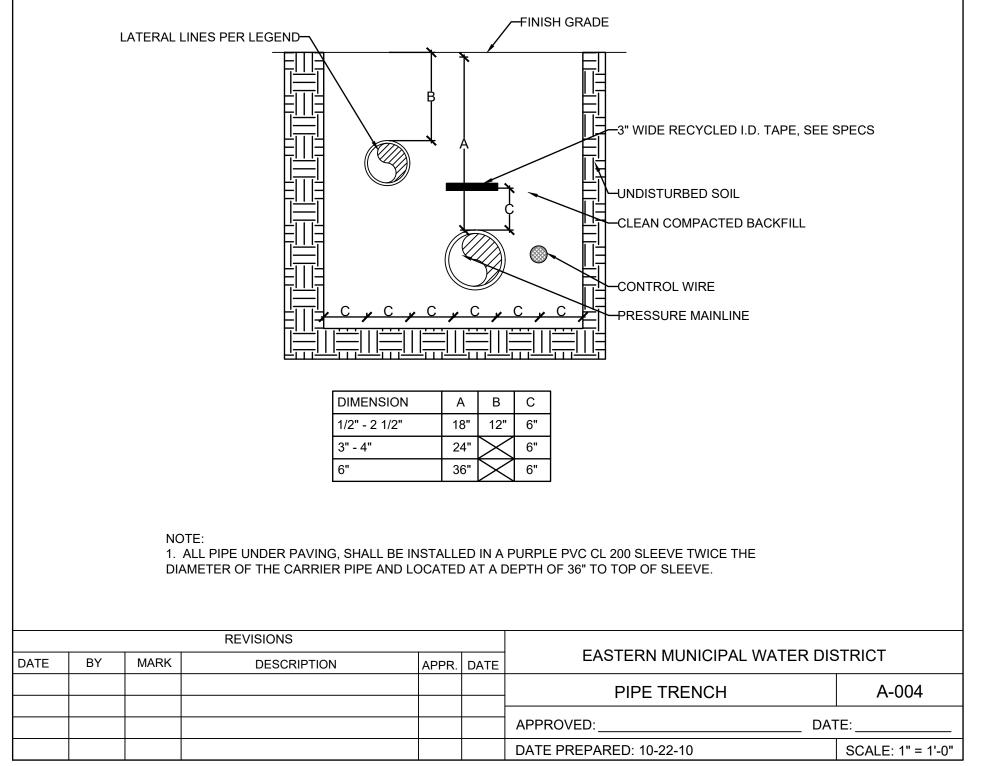
THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD AND VALLEY-WIDE RECREATION AND PARK DISTRICT STANDARDS AND SPECIFICATIONS. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH THE LATEST IRRIGATION DESIGN STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL PARTIES.

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.



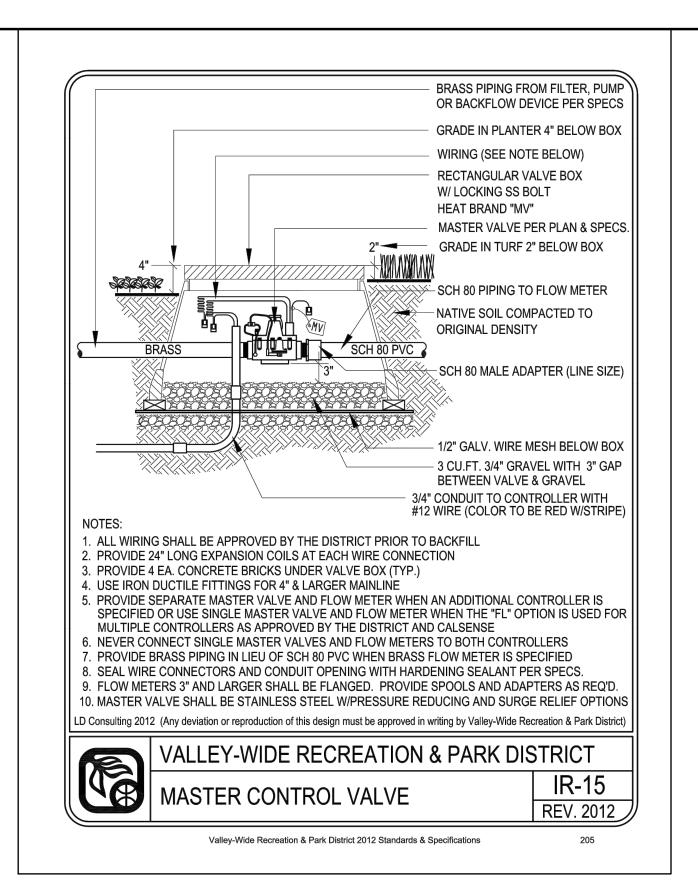


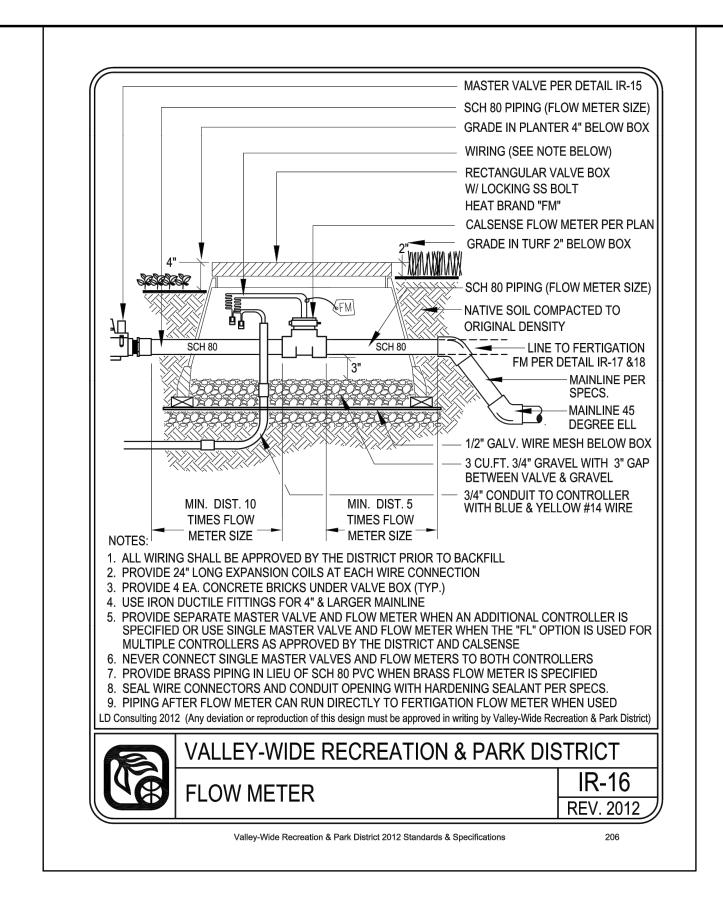
DIG A	LERT
BEFORE POUTOGO	Call: TOLL FREE 1-800-227-2600 OR 811
TWO FULL WORKING D	AYS BEFORE YOU D

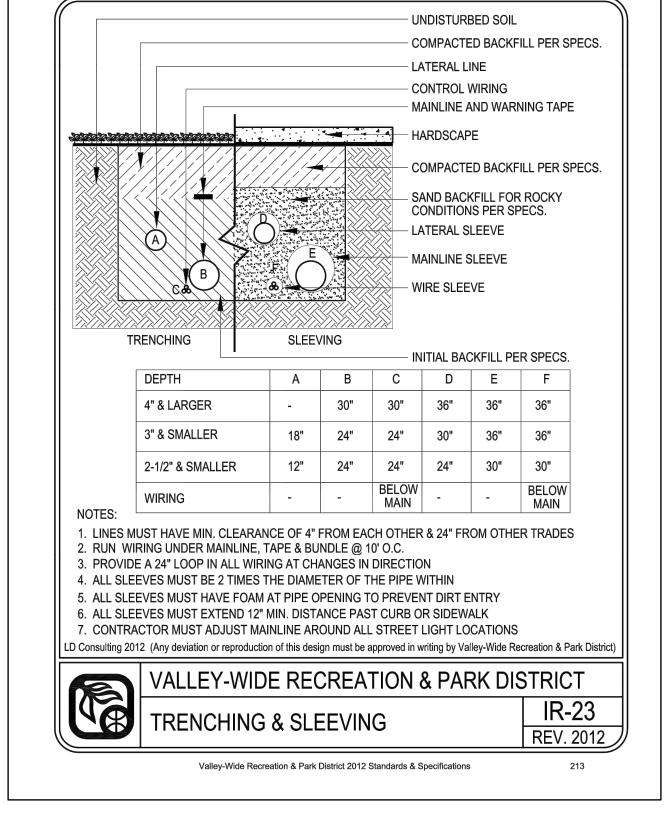
	BENCH MARK		ACCEPTED BY:		
	DESCRIPTON: LOCATION:	-	VALLEY-WIDE RECREATION AND PAR	RK DISTRICT	
		DEPARTMENT	ACCEPTANCE	DATE	
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IG	HORIZONTAL DATUM:				CHECKE

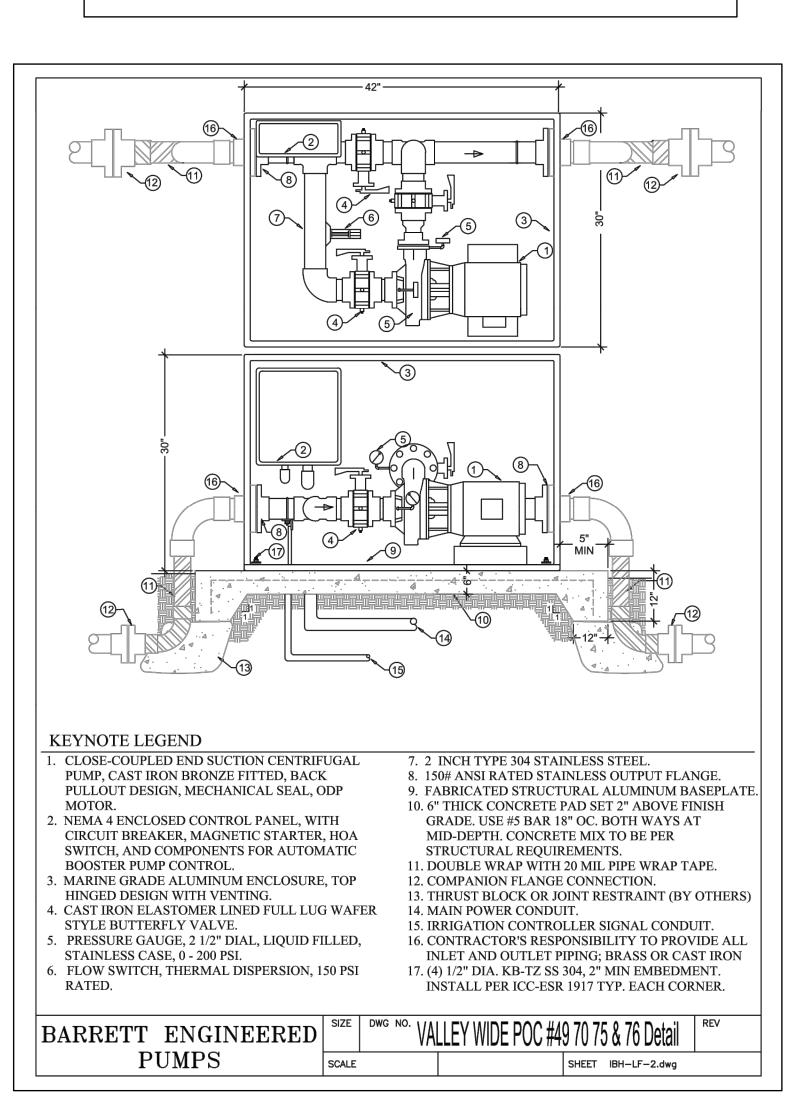
				REVISIONS			EAS1	ACCEPTED BY: FERN MUNICIPAL WATER D	ISTRICT	VALI
							<u>John</u>	Wuerth SENIOR CIVIL ENGINEER		F
							DEPARTMENT	ACCEPTANCE	DATE	
E:							NEW BUSINESS P.C.	Zeru A man	1/23/23	
	DATE	D) (MARK		4555	DATE	OPERATIONS	David Wuerth	1/23/23	
WN BY:	DATE	BY	MARK		APPR.	DATE	ENGINEERING			
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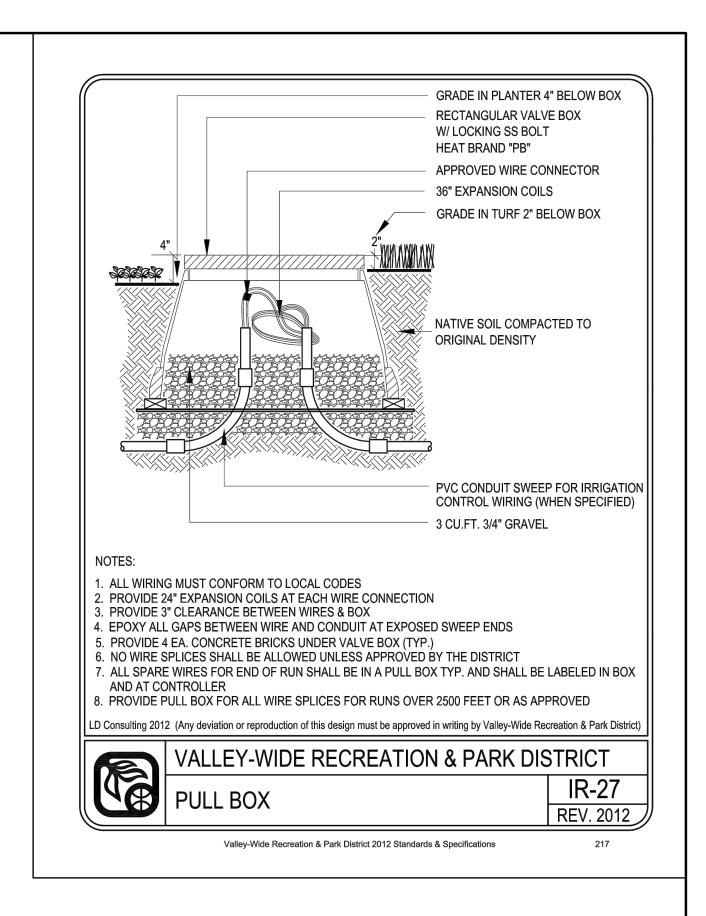
VALLEY-WIDE RECREATION AND PARK DISTRICT			WO: 77444
WINCHESTER, CA.			PCWO:
RECYCLED WATER IRRIGATION RETROFIT	DOPP.		RWUE:
IMPROVEMENTS POC #70	COORD.	14-A-10 14-A-11	RWUP:
IRRIGATION DETAILS	I.D.	98	SHT. 9 OF 11
	S.A.	34	D-66140

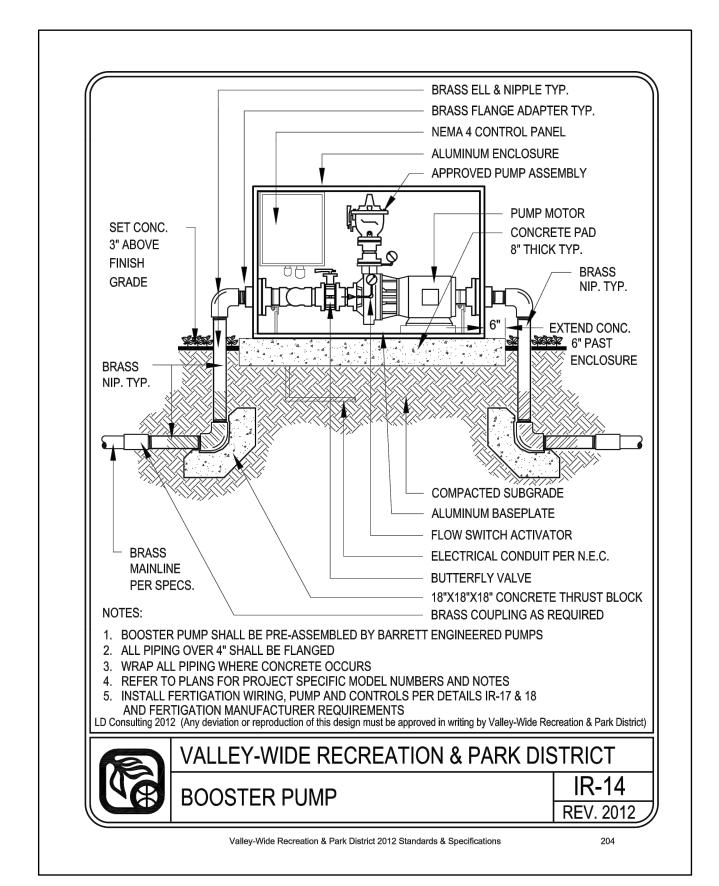


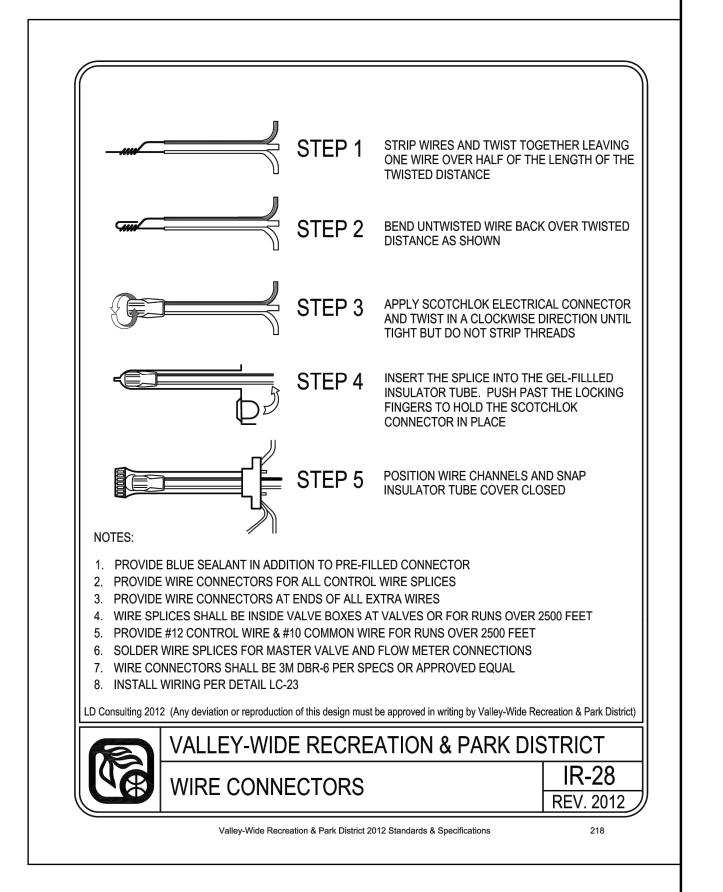














PARTIES.

COLOR CODING

HAVE PURPLE CAPS.

INSTALLATION NOTES

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN

STANDARDS AND SPECIFICATIONS. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH

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THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY

SHALL MEET THE LATEST EMWD AND VALLEY-WIDE RECREATION AND PARK DISTRICT

THE LATEST IRRIGATION DESIGN STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED

BENCH MARK

DESCRIPTON:

LOCATION:

DEPARTMENT

VERTICAL DATUM:

HORIZONTAL DATUM:

ACCEPTED BY:

VALLEY-WIDE RECREATION AND PARK DISTRICT

DEPARTMENT

ACCEPTANCE

DATE

1-20-2023

REVISIONS

ACCEPTED BY:
EASTERN MUNICIPAL WATER DISTRICT

John Wuerth
SENIOR CIVIL ENGINEER

DATE:
DATE:
DRAWN BY:
DRAWN BY:
DESCRIPTION

DESCRIPTION

ACCEPTED BY:
EASTERN MUNICIPAL WATER DISTRICT

John Wuerth
SENIOR CIVIL ENGINEER

DEPARTMENT
ACCEPTANCE

NEW BUSINESS P.C.
Zeru A man
OPERATIONS
DAVID Wuerth
ENGINEERING
POS ENGINEER

POS ENGINEER

VALLEY-WIDE RECREATION AND PARK DISTRICT

Winchester, Ca.

RECYCLED WATER IRRIGATION RETROFIT
IMPROVEMENTS
POC #70
IRRIGATION DETAILS

WO: 77444

PCWO:

RWUE:

14-A-10
COORD. 14-A-11 RWUP:

I.D. 98 SHT. 10 OF 11

S.A. 34 D-66141

1/23/23

DATE

1/23/23

1/23/23

I. CONTRACTOR'S IRRIGATION WORK RESPONSIBILITIES

- A. SCOPE OF WORK: THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
- B. CONFORMANCE: ALL IRRIGATION WORK SHALL CONFORM TO APPLICABLE LOCAL, COUNTY AND/OR STATE CODES, REGULATIONS AND RULES.
- C. LICENSE: ALL WORK SHALL BE PERFORMED BY A C-27 CALIFORNIA LICENSED LANDSCAPE IRRIGATION CONTRACTOR.
- D. PERMITS AND INSPECTIONS: THE CONTRACTOR SHALL OBTAIN, COORDINATE AND PAY FOR ANY AND ALL PERMITS, FEES AND AGENCY INSPECTIONS AS REQUIRED.
- INSURANCE: THE CONTRACTOR SHALL CARRY ALL WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY ALL APPLICABLE CODES, REGULATIONS AND BY THE OWNER (JOB SUPERINTENDENT).
- F. SITE VERIFICATION: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY, AT THE SITE, ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS NECESSARY TO ACHIEVE THE INTENDED DESIGN OF THE IRRIGATION SYSTEM. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY.
- G. LIABLE FOR ENCROACHMENT: THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY ENCROACHMENT INTO ADJACENT PROPERTY, RIGHTS—OF—WAYS, EASEMENTS, SET—BACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
- H. POINT OF CONNECTION VERIFICATION: THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE, METER SIZE AND SIZE OF SERVICE TO METER (P.O.C.) AT EACH POINT OF CONNECTION.
- I. FIELD STAKING: PRIOR TO INSTALLATION, THE CONTRACTOR SHALL LOCATE BY STAKES OR OTHER MEANS ALL PRESSURE SUPPLY LINES, CONTROL EQUIPMENT, GROUND COVER DELINEATIONS AND HEADS FOR APPROVAL BY THE OWNER (JOB SUPERINTENDENT).
- J. COORDINATION OF ACTIVITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS ACTIVITIES WITH ALL OTHER TRADES THROUGH THE OWNER (JOB SUPERINTENDENT).
- K. INTENDED DESIGN COVERAGE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION, MODIFICATION OR REVISIONS OF THE SYSTEMS AS NECESSARY TO MAINTAIN THE CONSISTENT COVERAGE DESIGN OF THE CONTRACT DOCUMENTS. ANY DEVIATION FROM THE CONTRACT DOCUMENTS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE APCHITECT.
- L. NOTIFICATION OF DISCREPANCIES: ANY DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND THE CONTRACT DOCUMENTS AND/OR THE DESIGN INTENT AFFECTING THE SUCCESSFUL COMPLETION AND COST OF THE PROJECT SHALL BE REPORTED TO THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY. ALL WORK RELATED TO THE PROBLEM AREA SHALL CEASE UNTIL THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER (JOB SUPERINTENDENT) OR LANDSCAPE ARCHITECT IN WRITING. ANY CONTINUATION OF WORK IS AT THE CONTRACTOR'S RISK AND EXPENSE.
- M. IRRIGATION PLANS: THE IRRIGATION PLANS, INCLUDING PIPING AND EQUIPMENT LOCATIONS, ARE DRAWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO THE SYSTEM AS REQUIRED TO AVOID PHYSICAL ELEMENTS AND CONFORM TO THE SITE CONDITIONS. IN ALL CASES, THE CONTRACTOR SHALL INSURE THAT THERE ARE NO CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING AND CONSTRUCTION ELEMENTS, AND EXISTING UTILITIES.
- N. ELECTRICAL CONNECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ELECTRICAL CONNECTION FROM POWER SOURCE TO CONTROLLERS AS INDICATED ON THE PLANS WHERE APPLICABLE.
- D. LIABLE FOR DAMAGE: THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ALL UTILITIES, CONSTRUCTION, IRRIGATION AND PLANTING ELEMENTS, EITHER MARKED OR UNMARKED, AND SHALL REPAIR OR REPLACE DAMAGE TO ITS ORIGINAL CONDITION IN A MANNER ACCEPTABLE TO THE OWNER (JOB SUPERINTENDENT).
- P. LIABLE FOR LOSS: THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY LOSS TO HIS EQUIPMENT, PARTS AND MATERIALS ON THIS PROJECT UNTIL COMPLETION AND ACCEPTANCE OF THE JOB IN WRITING FROM THE OWNER (JOB SUPERINTENDENT).
- Q. AS BUILTS: THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE 'AS BUILT' RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. BEFORE THE TIME OF THE FINAL INSPECTION, THE CONTRACTOR SHALL TRANSFER ALL INFORMATION FROM THE 'AS BUILT' SET AND FIELD STAKING OF ALL EQUIPMENT LOCATED ON THE MAINLINE AND CONTROL WIRE LOCATION TO A REPRODUCIBLE OZALID SEPIA, PROCURED FROM THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT. ALL WORK SHALL BE NEAT AND LEGIBLE. THE CONTRACTOR SHALL CERTIFY REPRODUCIBLES AS TO ACCURACY AND COMPLETENESS.
- R. WRITTEN GUARANTEE: ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE ON HIS LETTERHEAD AT THE TIME OF THE FINAL INSPECTION.
- S. WRITTEN CERTIFICATION: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION THAT THE IRRIGATION SYSTEM IS INSTALLED FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP AND IN FULL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS SHALL BE ON THE CONTRACTOR'S LETTERHEAD WITH HIS IRRIGATION AND CALIFORNIA C-27 CONTRACTOR'S LICENSE NUMBER.
- TURNOVER ITEMS: THE CONTRACTOR SHALL SUPPLY TO THE OWNER (JOB SUPERINTENDENT), AS A PART OF THIS CONTRACT, THE FOLLOWING ITEMS PRIOR TO THE TIME OF THE FINAL SITE OBSERVATION:
- 1. A REPRODUCIBLE SET OF 'AS BUILT' DRAWINGS AS PER NOTE 'Q' ABOVE.
- THE ORIGINAL OF THE GUARANTEE LETTER.
 THE ORIGINAL OF THE CERTIFICATION LETTER.
- THE ORIGINAL OF THE CERTIFICATION LETTER.
 TWO (2) KEYS FOR EACH AUTOMATIC CONTROLLER.
 TWO (2) SETS OF ANY SPECIAL EQUIPMENT REQUIRED FOR OPERATING, ADJUSTING, ASSEMBLING AND REMOVING EACH TYPE OF EQUIPMENT SUPPLIED ON THIS PROJECT AS

- II. OWNER'S IRRIGATION WORK RESPONSIBILITIES
- A. CONSTRUCTION RESPONSIBILITIES: THE OWNER WILL BE DIRECTLY RESPONSIBLE FOR ALL ASPECTS OF CONSTRUCTION INCLUDING ALL IRRIGATION INSPECTIONS. ALL FIELD MEETINGS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT).
- B. DETERMINING LEGAL AND PHYSICAL ELEMENTS: THE OWNER (JOB SUPERINTENDENT) SHALL BE RESPONSIBLE FOR DETERMINING PROPERTY LINES, RIGHTS—OF—WAYS, TRACT BOUNDARIES, GRADES, EASEMENTS, UTILITY LOCATIONS (ABOVE AND BELOW GRADE) AND ANY OTHER LEGAL OR PHYSICAL ELEMENTS AS REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE WORK. THE CONTRACTOR SHALL NOT BE PERMITTED TO PROCEED WITH ANY WORK WITHOUT DETERMINATION OF THE ABOVE INFORMATION.
- C. SITE DISCREPANCIES: ALL DISCREPANCIES IN SITE CONDITIONS, DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER (JOB SUPERINTENDENT) IMMEDIATELY. IT IS THE OWNER'S (JOB SUPERINTENDENT'S) RESPONSIBILITY TO CONSULT THE LANDSCAPE ARCHITECT PRIOR TO ANY FURTHER WORK IN THAT AREA. ANY UNREPORTED DISCREPANCY AND CONTINUED WORK WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S RISK AND EXPENSE.
- D. CONTRACT FULFILLMENT: ALL QUESTIONS RELATING TO INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS, QUALITY OF WORK AND ACCEPTABLE FULFILLMENT OF INTENT OF THE CONTRACT DOCUMENT SHALL BE DECIDED BY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT CONCURRENTLY.
- III. REQUIRED FIELD OBSERVATION WORK A. REQUIRED FIELD OBSERVATION WORK: THESE PLANS WERE PREPARED WITH THE UNDERSTANDING THAT THE OWNER OF SAID PLANS WILL USE E.M.W.D. TO PROVIDE 'FULL' CONTRACT SERVICES INCLUDING FIELD OBSERVATION SERVICES DURING CONSTRUCTION. FAILURE TO USE E.M.W.D. TO PROVIDE AND COMPLETE THE FIELD OBSERVATION SERVICES SET FORTH HEREIN WILL SIGNIFICANTLY INCREASE THE RISK OF LOSS RESULTING, AMONG OTHER CAUSES, FROM MISINTERPRETATION OF THE INTENT OF THE DESIGN, UNAUTHORIZED MODIFICATIONS THERETO, AND FAILURE TO DETECT ERRORS AND OMISSIONS IN THE PLANS AND SPECIFICATIONS BEFORE THEY BECOME COSTLY MISTAKES BUILT INTO THE PROJECT. THEREFORE, IN THE EVENT THAT E.M.W.D. IS OTHERWISE PRECLUDED FROM COMPLETING THE FIELD OBSERVATION SERVICES SET FORTH HEREIN, THE OWNER, OR SUBSEQUENT OWNER (INDIVIDUALS OR CORPORATIONS WHO HAVE PURCHASED THESE PLANS WITH THE PROJECT). AGREES TO HOLD HARMLESS, INDEMNIFY, AND DEFEND E.M.W.D. FROM

IV. LANDSCAPE ARCHITECT'S IRRIGATION FIELD OBSERVATION SCHEDULE

AND AGAINST ANY AND ALL CLAIMS.

- A. FIELD OBSERVATION COORDINATION: THE FOLLOWING OBSERVATIONS SHALL BE INITIATED BY THE CONTRACTOR AND COORDINATED THROUGH THE OWNER (JOB SUPERINTENDENT). THE CONTRACTOR SHALL NOTIFY THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT NOT LESS THAN FORTY—EIGHT (48) HOURS IN ADVANCE OF ANY OBSERVATION. CONTINUED WORK WITHOUT OBSERVATION AT THESE PHASES OF WORK IS AT THE CONTRACTOR'S RISK, WITH ANY REQUIRED CHANGE OR MODIFICATION AT THE CONTRACTOR'S EXPENSE. THE OWNER (JOB SUPERINTENDENT) SHALL INFORM THE LANDSCAPE ARCHITECT AS TO THE PURPOSE AND TIME OF THE OBSERVATION FORTY—EIGHT (48) HOURS IN ADVANCE.
- B. CONTRACTOR ORIENTATION/PRE-CONSTRUCTION MEETING: THIS MEETING SHALL BE CONDUCTED TO DISCUSS THE PLANS AND SPECIFICATIONS, POSSIBLE DISCREPANCIES, SITE CONDITIONS AND OTHER ASPECTS OF THE PROJECT IRRIGATION WORK SUCH AS PERSONNEL, SCHEDULE AND REQUIREMENTS FOR STARTING WORK. PRIOR TO THE MEETING, THE CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH SITE CONDITIONS AND THE PLANS, DETAILS AND SPECIFICATIONS.
- C. IRRIGATION MAINLINE AND EQUIPMENT LAYOUT: THIS OBSERVATION SHALL BE PERFORMED BY THE OWNER (JOB SUPERINTENDENT) FOLLOWING STAKING OF ALL PRESSURE MAINLINE AND CONTROL EQUIPMENT, VERIFICATION OF ALL SITE CONDITIONS AND PRIOR TO ANY TRENCHING. ANY DISCREPANCIES NOT PREVIOUSLY NOTED SHALL BE CORRECTED AT THIS TIME TO THE SATISFACTION OF THE OWNER (JOB SUPERINTENDENT) AND LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
- D. IRRIGATION MAINLINE AND PRESSURE TEST: THIS OBSERVATION IS FOR THE PURPOSE OR REVIEWING ALL MAINLINE LAYOUT FOR CONFORMANCE TO SPECIFICATIONS AND VERIFYING THE WATER TIGHTNESS OF PRESSURE SYSTEMS PRIOR TO BACKFILLING TRENCHES. PRESSURE TESTS MUST CONFORM TO MANUFACTURER'S SPECIFICATIONS. ALL PRESSURE LINES SHALL BE TESTED UNDER A SUSTAINED HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS. THIS TEST SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER (JOB SUPERINTENDENT) TO MANUFACTURER'S ACCEPTED TESTING PROCEDURES AND APPROVED IN WRITING BY THE OWNER (JOB SUPERINTENDENT), PRIOR TO BACKFILLING ANY TRENCHES. CONTRACTOR SHALL FURNISH NECESSARY FORCE PUMP AND ALL OTHER NECESSARY TESTING EQUIPMENT.
- E. PROGRESS INSPECTIONS: PERIODIC INSPECTIONS SHALL BE PERFORMED BY OWNER (JOB SUPERINTENDENT) DURING THE LAYOUT OF ALL LATERAL LINE SYSTEMS, WITH TRENCHES OPEN TO VERIFY CONFORMANCE TO DETAILS, DEPTH OF PIPE AND EQUIPMENT ASSEMBLIES.
- ASSEMBLIES.

 F. IRRIGATION COMPLETION/COVERAGE TEST: THIS OBSERVATION IS TO INSURE CONFORMANCE OF ALL IRRIGATION EQUIPMENT WITH IRRIGATION CONTRACT DOCUMENTS AND WILL CONSIST OF OPERATION OF EACH SYSTEM TO INSURE INTENDED COVERAGE. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND BUILDINGS, ETC. PRIOR TO THIS OBSERVATION. THIS MAY INCLUDE CHANGES IN NOZZLE SIZES AND DEGREE OF ARC TO OPTIMIZE OPERATION.

V. SCOPE OF IRRIGATION WORK

- A. GENERAL IRRIGATION NOTES:
- SPECIFIED EQUIPMENT: ALL EQUIPMENT SHALL BE AS LISTED IN THE LEGEND AND INSTALLED
 AS PER DETAILS AND SPECIFICATIONS, OR MANUFACTURER'S RECOMMENDATION. ANY
 SUBSTITUTIONS SHALL BE APPROVED IN WRITING BY OWNER (JOB SUPERINTENDENT)
 AND LANDSCAPE ARCHITECT. ANY UNAPPROVED EQUIPMENT SHALL BE REPLACED AT THE
 CONTRACTOR'S EXPENSE.
- 2. ALTERNATE ITEMS: APPROVAL OF ANY ITEM OR ALTERNATE ITEM INDICATES ONLY THAT IT APPARENTLY MEETS THE REQUIREMENTS OF THE DRAWINGS ON THE BASIS OF THE INFORMATION SUBMITTED, AND DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR THE EQUIPMENT'S SUCCESSFUL OPERATION.
- 3. CONTRACTOR'S GUARANTEE: MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF THIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES WILL ONLY SUPPLEMENT THE GUARANTEE.
- 4. SOLVENT WELD MAINLINE PIPE: PRESSURE MAINLINE PIPE SIZED 1-1/2" AND SMALLER SHALL BE IPS PRESSURE RATED PVC 1120 SCHEDULE 40 RATED PIPE. PRESSURE MAINLINE PIPE SIZED TWO INCHES (2") AND LARGER SHALL BE IPS PRESSURE RATED PVC 1120 SDR 13.5 315 PSI RATED PIPE PVC (CLASS 315) CONFORMING TO MATERIALS ASTM D1784 AND PRODUCT DESIGN ASTM D2214 FOR SDR 315 AND ASTM 1784 FOR SCHEDULE 40 PIPE, BURIED A MINIMUM OF EIGHTEEN INCHES (18") DEEP WITH SOLVENT WELD JOINTS MADE FROM NSF APPROVED, TYPE 1, GRADE 1 (PVC COMPOUND CONFORMING TO ASTM RESIN SPECIFICATION D1784).
- 5. LATERAL LINE PIPE: NON-PRESSURE BURIED LATERAL LINE PIPE SHALL BE PRESSURE RATED PVC 1120 SDR 21 200 PSI RATED PIPE CONFORMING TO MATERIALS ASTM D1784 AND PRODUCT DESIGN ASTM D2214 FOR SDR 21 PIPE 200 PSI RATED PIPE CONFORMING TO MATERIALS ASTM D1784 AND PRODUCTS DESIGN ASTM D2214 FOR SDR 21 PIPE 200, BURIED A MINIMUM OF 12" DEEP WITH SOLVENT WELD JOINTS MADE FROM NSF APPROVED TYPE 1, GRADE II PVC COMPOUND CONFORMING TO ASTM RESIN SPECIFICATION D1784.
- 6. GASKET SEAL MAINLINE PIPE: PRESSURE MAINLINE PIPE SIZED TWO INCHES (2") AND LARGER SHALL BE IPS PRESSURE RATED PVC 1120 SDR 21 200 PSI RATED PIPE, CONFORMING TO MATERIALS ASTM D1784, PRODUCT DESIGN ASTM D2214, GASKET JOINT ASTM DB139, GASKET ASTM F477, CELL CLASS ASTM 1245A, BURIED A MINIMUM OF EIGHTEEN INCHES (18") BELOW FINISH GRADE WITH THRUST BLOCKS PER MANUFACTURER'S INSTRUCTIONS.
- 7. SOLVENT CEMENT: SOLVENT PRIMER SHALL CONFORM TO ASTM D-2564. SOLVENT CEMENT SHALL CONFORM TO ASTM D2564.
- 8. SOLVENT FITTINGS: SOLVENT FITTINGS SHALL BE SCHEDULE 40 PRODUCED FROM PVC TYPE 1 CELL CLASSIFICATION B2454—B.
- THREADED FITTINGS: THREADED FITTINGS SHALL BE SCHEDULE 40 AND THREADED NIPPLES SHALL BE SCHEDULE 80, PRODUCED FROM PVC TYPE 1 CELL CLASSIFICATION 12454-B. USE PERMATEX #51/TEFLON TAPE OR APPROVED PIPE JOINT COMPOUND PER FITTINGS MANUFACTURER'S RECOMMENDATIONS.
- 10. STEEL PIPE: GALVANIZED STEEL PIPE SHALL BE ASA SCHEDULE 40 MILLED STEEL SCREWED PIPE WITH MEDIUM GALVANIZED SCREWED BEADED MALLEABLE IRON FITTINGS.
 11. STEEL PIPE BELOW GRADE: ALL GALVANIZED PIPE AND FITTINGS INSTALLED BELOW GRADE SHALL BE COATED WITH TWO (2) COATS OF KOPPERS #50 BITUMASTIC.
- 12. BRASS PIPE AND FITTINGS: BRASS PIPE SHALL BE 85% RED BRASS, AMERICAN NATIONAL STANDARD INSTITUTE (ANSI), SCHEDULE 40 SCREWED PIPE. FITTINGS SHALL BE MEDIUM BRASS, SCREWED, 125 POUND CLASS.
- 13. COPPER PIPE AND FITTINGS: COPPER PIPE SHALL BE TYPE K, (HARD) ASTM B88 SOLDER FITTINGS IN ACCORDANCE WITH ANSI B16.22. SOLDER JOINTS SHALL BE 45% SILVER, 15% COPPER, 16% ZINC, 24% CADMIUM AND SOLIDUS AS 11250F AND LIQUIDS AT 11450F., CONFORMING TO ASTM B206 AND FS QQ-B-655C.
- 14. METAL PIPE JOINTS: ALL CONNECTIONS TO BE SEALED WITH PIPE JOINT COMPOUND FOR METAL JOINTS.

 15. CONTROL WIRE: CONNECTIONS BETWEEN THE AUTOMATIC CONTROLLERS AND THE ELECTRIC
- 15. CONTROL WIRE: CONNECTIONS BETWEEN THE AUTOMATIC CONTROLLERS AND THE ELECTRIC CONTROL VALVES SHALL BE MADE WITH DIRECT BURIAL COPPER WIRE AWG—U.F. 600 VOLT UL APPROVED. MINIMUM SIZE IS #14 AWG, BURIED EIGHTEEN (18") INCHES BELOW GRADE. USE DIFFERENT COLOR CONTROL WIRE FOR EACH CONTROLLER. COMMON WIRES SHALL BE WHITE OR A DIFFERENT COLOR FROM THE CONTROL WIRES FOR EACH OF AUTOMATIC CONTROLLER ON THE SITE.
- 16. WIRE TRENCH: WIRING SHALL OCCUPY THE SAME TRENCH AND SHALL BE INSTALLED ALONG THE SAME ROUTE AS PRESSURE SUPPLY OR LATERAL LINES WHEREVER POSSIBLE. THE WIRES SHALL BE TAPED TOGETHER AT INTERVALS NOT EXCEEDING TEN (10) FEET.
- 17. EXPANSION CURL: A TWELVE INCH (12") EXPANSION CURL SHOULD BE PROVIDED WITHIN THREE (3) FEET OF EACH WIRE CONNECTION AND AT LEAST EVERY ONE HUNDRED (100) FEET OF WIRE LENGTH. AT STREET CROSSINGS AND GATE VALVE LOCATIONS THE CONTRACTOR SHALL BRING ALL THE WIRES TO GRADE AND PROVIDE A 12" EXPANSION CURL COVERED BY A RECTANGULAR VALVE BOX MARKED 'IRRIGATION WIRE'.
- 18. WIRE SPLICES: ALL SPLICES SHALL BE MADE WITH SCOTCH—LOK #3577 CONNECTOR SEALING PACKS, PEN—TITE WIRE CONNECTOR, OR APPROVED EQUAL. USE ONE SPLICE PER CONNECTOR. ALL SPLICES SHALL BE MADE AT VALVES OR CONTROLLER. NO OTHER SPLICES WILL BE ALLOWED UNLESS APPROVED BY THE OWNER (JOB SUPERINTENDENT). ALL SPLICES NOT AT VALVES, SHALL BE MADE IN A RECTANGULAR VALVE BOX MARKED 'IRRIGATION WIRE'.
- 19. TRENCHES: DIG TRENCHES STRAIGHT AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM OF TRENCH. LAY PIPE TO AN EVEN GRADE.
- 20. BACKFILL: THE TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE PERFORMED. TRENCHES SHALL BE CAREFULLY BACKFILLED WITH APPROVED MATERIALS, FREE FROM CLODS OF EARTH OR STONES TWO INCHES (2") OR LARGER. BACKFILL SHALL BE MECHANICALLY COMPACTED TO A DRY DENSITY EQUAL TO ADJACENT UNDISTURBED SOIL AND SHALL CONFORM TO ADJACENT SURFACE GRADES WITHOUT IRREGULARITIES.
- 21. LINES UNDER PAVING: ALL IRRIGATION LINES, VALVES AND WIRING RUNS SHOWN ON PLANS IN THE STREET, PAVED AREAS AND UNDER HARDSCAPING ARE DIAGRAMMATIC. INSTALL THESE LINES, VALVES AND WIRING RUNS IN PLANTING AREAS EXCEPT WHERE IT IS OBVIOUS THAT THEY MUST CROSS THAT PAVED AREA TO GET FROM ONE PLANTING AREA TO ANOTHER OR UNLESS NOTED OTHERWISE.
- 22. STREETS: WHERE ANY CUTTING OR BREAKING OF CONCRETE OR OTHER PAVING SURFACE IS NECESSARY, IT SHALL BE DONE AND REPLACED TO MATCH THE EXISTING WORK TO THE OWNER'S (JOB SUPERINTENDENT'S) SATISFACTION, BY THE CONTRACTOR, AS PART OF THE CONTRACT COST.
- 23. SLEEVES: SLEEVES SHALL BE INSTALLED UNDER ALL STREETS AND PAVEMENT WIDER THAN SEVEN FEET (7') PER THE IRRIGATION PLAN. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVES WITH THE OWNER (JOB SUPERINTENDENT) PRIOR TO THE PAVING BEING INSTALLED.
- ASPHALTIC CONCRETE PAVING SHALL BE INSTALLED IN CLASS 315 PVC SLEEVES BURIED TWENTY—FOUR INCHES (24") BELOW THE ROAD BED AND BACKFILLED PER STRUCTURAL SOILS REPORT SPECIFICATIONS.

 25. PIPE CLEARANCE: ALL LINES SHALL HAVE A MINIMUM CLEARANCE OF SIX INCHES (6") FROM

24. SLEEVE/PIPE COVER: ALL WIRE, PRESSURE AND NON-PRESSURE PIPE INSTALLED UNDER

- EACH OTHER. PARALLEL LINES SHALL NOT BE INSTALLED DIRECTLY OVER ONE ANOTHER.

 26. CONTROL VALVES: INSTALL EACH CONTROL VALVE IN A SEPARATE LOCKING VALVE BOX WITH A MINIMUM OF TWELVE INCHES (12") BETWEEN VALVE BOXES, AND A MINIMUM OF SIX
- 27. HEAD INSTALLATION: IRRIGATION HEADS SHALL BE INSTALLED ONLY AFTER THE SYSTEM HAS BEEN FLUSHED TO THE COMPLETE SATISFACTION OF THE OWNER (JOB SUPERINTENDENT).
 28. HEAD SPACING: SPACING OF HEADS SHALL NOT EXCEED THE MAXIMUM INDICATED ON THE

INCHES (6") BETWEEN VALVE BOXES AND ANY WALK OR STRUCTURE.

- 28. HEAD SPACING: SPACING OF HEADS SHALL NOT EXCEED THE MAXIMUM INDICATED ON THE DRAWINGS. IN NO CASE SHALL THE SPACING EXCEED THE MAXIMUM RECOMMENDED BY THE MANUFACTURER.
- 29. INSTALLATION ANGLE OF IRRIGATION HEAD: ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADES UNLESS OTHERWISE DESIGNATED ON THE PLANS.

 30. PIPE ON GRADE: ALL PIPE ON GRADE SHALL BE SECURED TO SLOPE SURFACES AT 10'
- O.C. AND TO FLAT AREAS AT 20' O.C. MAXIMUM WITH #4 X 24" REBAR WITH 'J' HOOKED RADIUS AT ONE END TO HOLD PIPE SECURELY IN PLACE.

 31. IRRIGATION SYSTEM REQUIREMENTS PRIOR TO PLANTING: THE ENTIRE SPRINKLER IRRIGATION SYSTEM SHALL BE LINDER FULL AUTOMATIC OPERATION PRIOR TO THE START OF ANY
- SYSTEM REQUIREMENTS PRIOR TO PLANTING: THE ENTIRE SPRINKLER TRRIGATION SYSTEM SHALL BE UNDER FULL AUTOMATIC OPERATION PRIOR TO THE START OF ANY PLANTING WORK AND AN IRRIGATION COVERAGE TEST SHALL ALSO BE PERFORMED BY THE LANDSCAPE ARCHITECT PRIOR TO THE START OF ANY PLANTING.



BENCH MARK

DESCRIPTON:

LOCATION:

DEPARTMENT

VALLEY-WIDE RECREATION AND PARK DISTRICT

DEPARTMENT

ACCEPTANCE

DATE

1-20-2023

HORIZONTAL DATUM:

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN

STANDARDS AND SPECIFICATIONS. IF CONTRACTOR NOTICES ANY INCONSISTENCIES WITH

SHALL MEET THE LATEST EMWD AND VALLEY-WIDE RECREATION AND PARK DISTRICT

THE LATEST IRRIGATION DESIGN STANDARDS, HE SHALL IMMEDIATELY NOTIFY ALL

NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE

ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOXES AND LIDS SHALL BE PURPLE PER

INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK"

IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND

"PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL

EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED

THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY

INSTALLATION NOTES

PARTIES.

COLOR CODING

HAVE PURPLE CAPS.

VALLEY-WIDE RECREATION AND PARK DISTRICT
WINCHESTER, CA.
RECYCLED WATER IRRIGATION RETROFIT
IMPROVEMENTS
POC #70
IRRIGATION SPECIFICATIONS