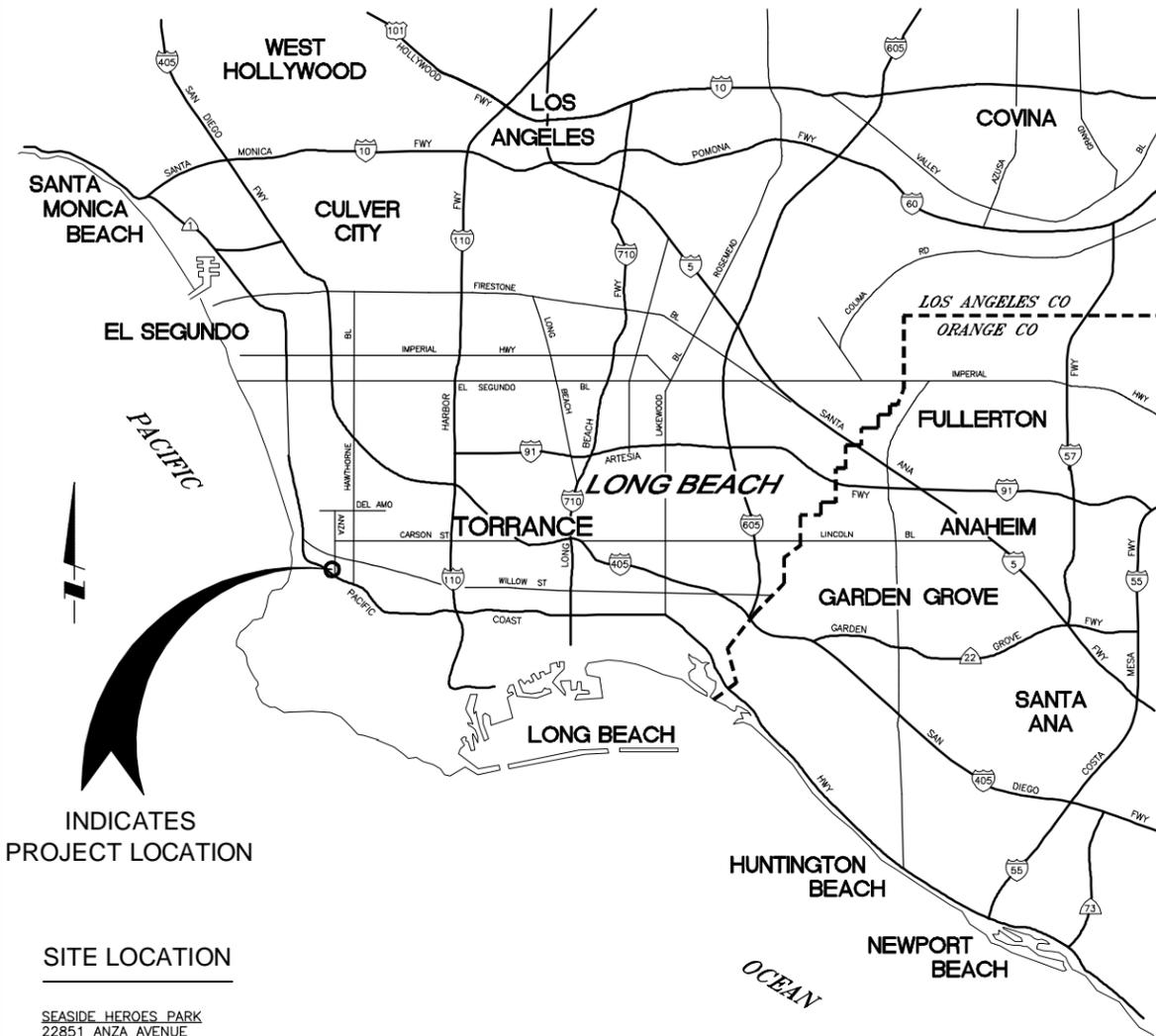


WEST BASIN MUNICIPAL WATER DISTRICT

RECYCLED WATER CUSTOMER DEVELOPMENT ON-SITE RETROFIT FACILITIES SEASIDE HEROES PARK TORRANCE, CA JANUARY 2012



INDICATES
PROJECT LOCATION

SITE LOCATION

SEASIDE HEROES PARK
22851 ANZA AVENUE
TORRANCE, CA 90505

LOCATION MAP

NO SCALE

CONTACTS

OWNER AND SITE SUPERVISOR:	CITY OF TORRANCE MIKE WILSON, PARK SERVICES MANAGER	(310) 781-6901
WATER PURVEYOR:	CITY OF TORRANCE WATER DEPARTMENT JOHN DETTLE	(310) 618-3059
WEST BASIN MUNICIPAL WATER DISTRICT:	FRANK FUCHS, PROJECT MANAGER	(310) 660-6255
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH:	CARLOS BORJA	(626) 430-5295

SYMBOLS AND ABBREVIATIONS

	RECYCLED WATER BOUNDARY AREA
	PROPERTY LINE
	EXIST. POTABLE WATER LINE
	EXIST. RECYCLED WATER LINE
	EXIST. RECYCLED WATER MAIN IRRIGATION LINE
	EXIST. RECYCLED WATER IRRIGATION LATERAL
	EXIST. POTABLE WATER MAIN IRRIGATION LINE
	EXIST. POTABLE WATER IRRIGATION LATERAL
	EXIST. METER
	EXIST. REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
	EXIST. DRINKING FOUNTAIN
	EXIST. BASKET STRAINER
	EXIST. FLOW SENSOR
	EXIST. ELECTRIC CONTROL VALVE
	EXIST. DRIP CONTROL VALVE
	EXIST. QUICK COUPLING VALVE
	EXIST. HOSE BIB
	EXIST. GATE VALVE
	EXIST. MASTER VALVE
	EXIST. FLUSH VALVE
	EXIST. VACUUM BREAKER
	PRESSURE REDUCING VALVE (PRV)
	EXIST. STATION IRRIGATION CONTROLLERS - ELECTRIC (A,B,C...)
	CAP
	FIRE HYDRANT
	RECYCLED WATER SIGN
CWSC	CALIFORNIA WATER SERVICE COMPANY
D.I.	DUCTILE IRON
DPH	DEPARTMENT OF PUBLIC HEALTH SERVICES
EXIST.	EXISTING
F.H.	FIRE HYDRANT
FLG	FLANGED
MIN.	MINIMUM
PE	PLAIN END
PO	PUSH-ON
PW	POTABLE WATER
RPPD	REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
RW	RECYCLED WATER
TMWD	TORRANCE MUNICIPAL WATER DISTRICT

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS INC., THE CITY OF TORRANCE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, WBMWD STANDARD SPECIFICATIONS FOR PIPELINE CONSTRUCTION AND THE RECYCLED WATER URBAN IRRIGATION USER'S MANUAL, LATEST EDITIONS.
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT LEAST TWELVE INCHES (12") ABOVE GRADE, READILY ACCESSIBLE FOR FIELD TEST AND MAINTENANCE, AND AS CLOSE TO THE POTABLE WATER METER AS PRACTICAL.
- DRINKING FOUNTAINS LOCATED IN RECYCLED WATER USE AREAS SHALL BE PROTECTED FROM RECYCLED WATER SPRAY BY A COMBINATION OF SELECTIVE LOCATION OF SUCH EQUIPMENT AND BY APPROPRIATE IRRIGATION SYSTEM DESIGN AND/OR MODIFICATION.
- QUICK COUPLERS AND ELECTRICAL CONTROLLERS SHALL BE IDENTIFIED WITH THE PROPER TAGS AND LABELS. QUICK COUPLERS SHALL BE INSTALLED IN BOXES.
- EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO VERIFY AND DOCUMENT ON AS-BUILT DRAWINGS THE ACTUAL LOCATION AND ELEVATIONS IN THE FIELD OF ALL UTILITIES AND ALL POINTS OF CONNECTION. THE FIELD VERIFICATION (POTHOLING) SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY MODIFICATIONS TO THE IRRIGATION SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLANS. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR.
- ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS ARE IN NO WAY GUARANTEED.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF ALL PRIVATE FACILITIES AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- RECYCLED WATER SIGNS SHALL BE INSTALLED AT LOCATIONS AGREEABLE TO THE SCHOOL DISTRICT AND DHS. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS.
- ALL CONCRETE SHALL BE 560-C-3250 UNLESS OTHERWISE SPECIFIED.
- PRIOR TO DELIVERING RECYCLED WATER TO THE PARK, A SUCCESSFUL CROSS CONNECTION AND COVERAGE TEST WILL BE REQUIRED. THE FOLLOWING AGENCIES MAY BE PARTICIPATING IN THE TESTS: WBMWD, CITY OF TORRANCE, COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH SERVICES, STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, AND A REPRESENTATIVE FROM TETRA TECH. CONTRACTOR WILL BE REQUIRED TO SEQUENCE THEIR WORK TO ALLOW FOR THE CROSS CONNECTION AND COVERAGE TESTS PRIOR TO PERFORMING THE DISCONNECTION OF THE POTABLE WATER AND CONNECTION OF THE RECYCLED WATER TO THE EXISTING IRRIGATION SYSTEM.
- CONTRACTOR SHALL REPAIR ANY BROKEN IRRIGATION LINES RESULTING FROM CONSTRUCTION ACTIVITIES. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SOD TO THE SATISFACTION OF THE OWNER.
- PIPE TRENCHING AND BEDDING FOR THE RECYCLED WATER SERVICE SHALL BE PER WBMWD STD. DWG. RW15 & RW17
- CONTRACTOR SHALL NOTIFY WBMWD A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO EXISTING WBMWD RECYCLED WATER FACILITIES. CONTRACTOR SHALL CONTACT GEORGE COOK AT (310) 420-8603.

SHEET INDEX

SHEET	DESCRIPTION
1	GENERAL INFORMATION
2	SEASIDE HEROES PARK - RW CONVERSION SITE PLAN AND CONNECTION DETAIL
3	SITE DETAILS
4	DPH RECYCLED WATER GUIDELINES

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DATE	JANUARY 2012
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DESIGNED BY	CH
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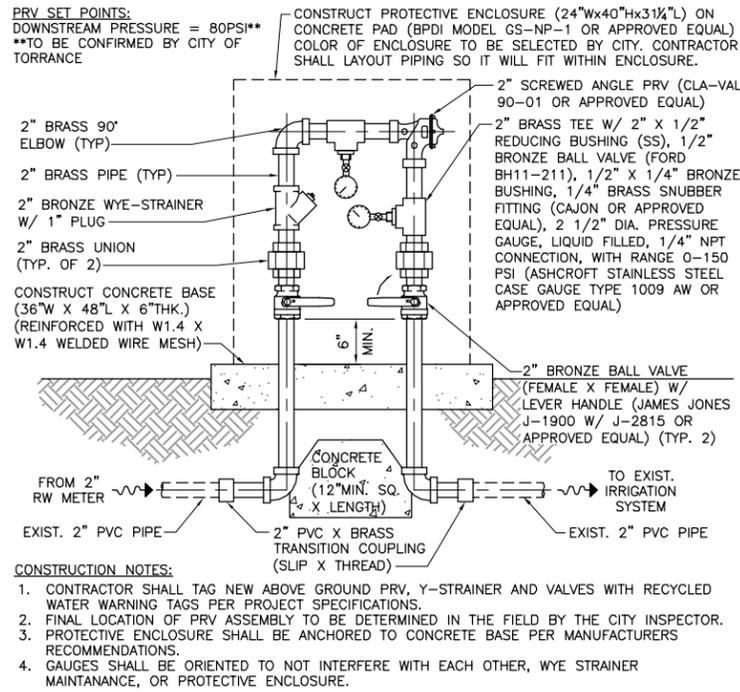
PLANS PREPARED BY:
TETRA TECH, INC.
17885 Von Karman Ave., Suite 500
Irvine, California 92614
(949) 809-5000
(949) 809-5010 FAX

**WEST BASIN MUNICIPAL
WATER DISTRICT**
RECYCLED WATER CUSTOMER DEVELOPMENT

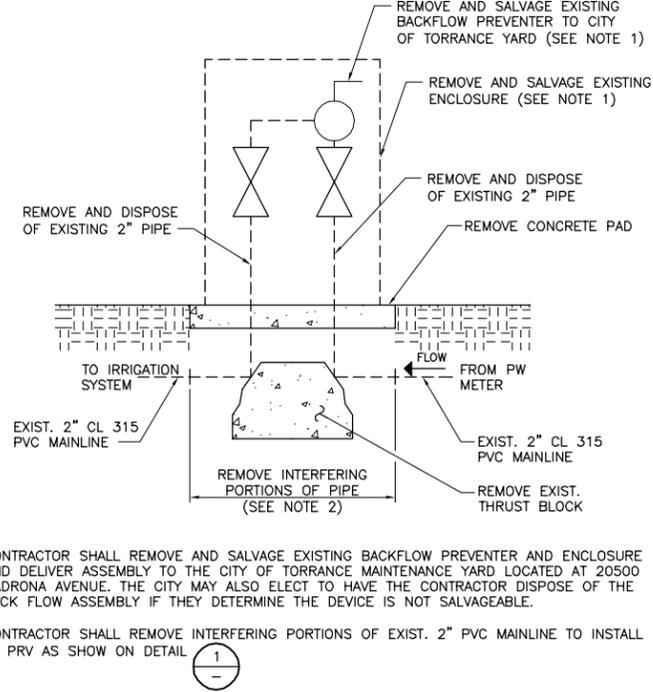
SEASIDE HEROES PARK
GENERAL INFORMATION

PROJECT NO.
09265.09001

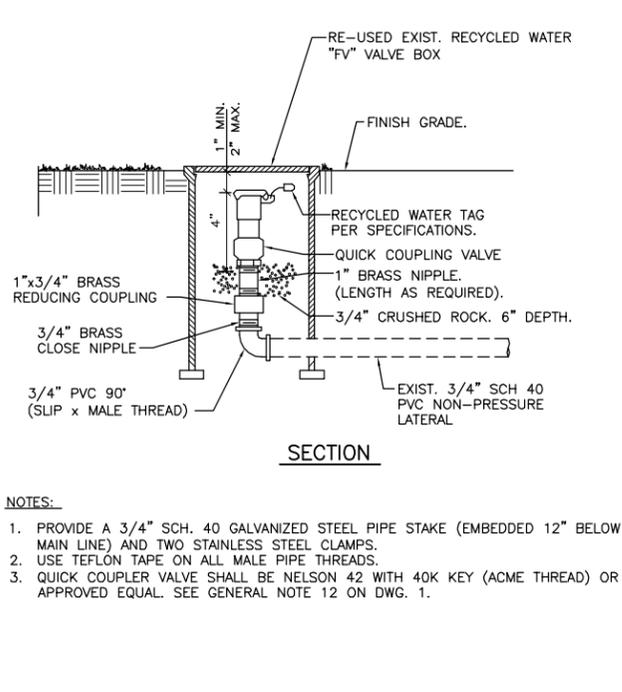
DWG. NO. 1 OF 4



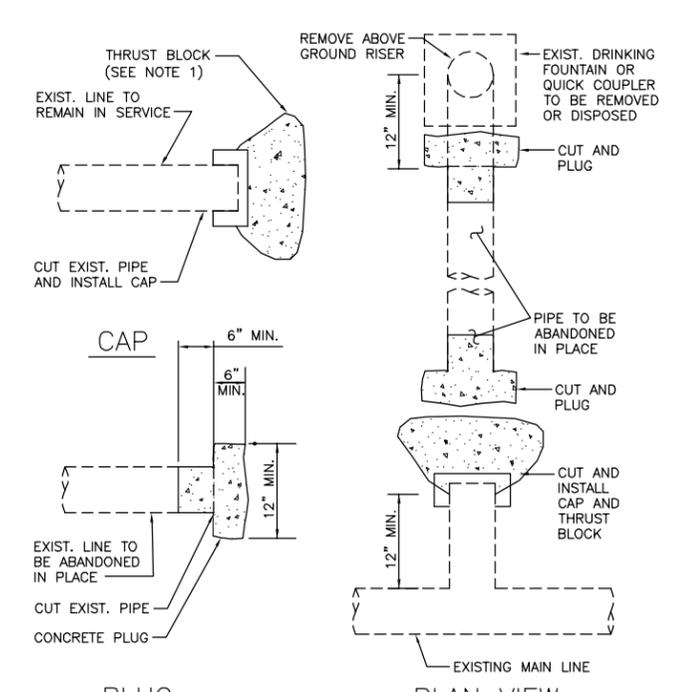
2" PRV ASSEMBLY
N.T.S.



REMOVAL OF EXISTING IRRIGATION BACKFLOW PREVENTION ASSEMBLY
N.T.S.



RECYCLED WATER QUICK COUPLER
N.T.S.



CUT AND CAP/PLUG DETAIL
N.T.S.



NOT USED
N.T.S.



NOT USED
N.T.S.



NOT USED
N.T.S.



NOT USED
N.T.S.



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CHECKED BY	MWB				
REV	DESCRIPTION	ENGR	DATE	APPD	DATE



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WEST BASIN MUNICIPAL WATER DISTRICT
RECYCLED WATER CUSTOMER DEVELOPMENT

SEASIDE HEROES PARK
SITE DETAILS

PROJECT NO.
09265.09001
DWG. NO. **3** OF **4**



GUIDELINES FOR PIPELINE CONSTRUCTION AND INSTALLATION -
FOR THE SAFE USE OF RECYCLED / RECLAIMED WASTEWATER

PURPOSE: As a result of increasing availability of recycled / reclaimed wastewater and an increased need for the transmission and use thereof, the Department of Public Health – Environmental Health (the Department) has found it necessary to establish the following regulations for pipeline construction and installation as well as for the safe use of recycled / reclaimed wastewater. These regulations are intended to protect public health by ensuring the safety of our domestic potable water supplies.

BACKGROUND: A recent increase in the number of inquiries and interest displayed regarding the use of recycled / reclaimed water, in the ongoing efforts to conserve water, have necessitated the need to establish definitions, standards and regulation for the uniform review and approval of recycled / reclaimed wastewater. Recycled / reclaimed water may be used for surface irrigation of the following: food crops, parks and playgrounds; school yards; residential landscaping; and unrestricted access golf courses.

DEFINITIONS:

Gray Water means untreated wastewater that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Gray water includes water from bathtubs, showers, bathroom wash basins, clothes-washers and laundry tubs.

Non-Potable Water means water which is unfit for human or animal consumption due to contaminants that exceed the current permissible Maximum Contaminant Level (MCL) in drinking water.

Potable Water means water which is fit for consumption by humans and other animals. The U.S. Environmental Protection Agency (EPA) identifies contaminants that may adversely affect public health and occur in drinking water with a frequency and at levels that pose a threat to public health. The EPA establishes (MCLs) for both biological and chemical contaminants permissible in drinking water. These MCLs become enforceable standards that determine the potability of water.

Recycled / Reclaimed Water means non-potable water that meets or as a result of treatment, meets federal requirements for its intended uses. The level of treatment and quality of the reclaimed / recycled water shall be approved by the Authority Having Jurisdiction. Reclaimed / recycled water systems shall have no connection to any potable water system, with or without mechanical backflow prevention devices.

Revised 09/22/09

- The use of recycled / reclaimed wastewater for irrigation purposes shall minimize exposure of the wastewater spray to drinking fountains and picnic tables through selective location of equipment and by appropriate irrigation system design. Additionally, the following measures should be taken: recycled wastewater spraying shall be done during hours of least public exposure; any area where recycled wastewater is released, used or impounded should be posted, informing the public that recycled water is being used; and irrigation practices utilizing recycled water shall be controlled to prevent surface runoff.

BACKFLOW PROTECTION

- There shall be no interconnection between a potable water system and a recycled / reclaimed water system within the user's premises.
- A dye or pressure test shall be utilized to confirm the physical separation of a recycled wastewater system and a potable water system. Testing shall be performed in conjunction with the Water Purveyor and this Department and conducted before the introduction of recycled wastewater.
- An approved backflow prevention device shall be installed at the potable water service connection.
- In a recycled / reclaimed wastewater distribution system, a backflow prevention device may be required at the recycled wastewater meter or at specific on-site locations where said use could degrade the quality of the recycled wastewater supply.



RECYCLED / RECLAIMED WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN COMPLIANCE WITH APPLICABLE POTABLE WATER SYSTEM CONSTRUCTION STANDARDS AS WELL AS THOSE SPECIFIED IN "THE PURPLE BOOK", CALIFORNIA HEALTH LAWS RELATED TO RECYCLED WATER, (CALIFORNIA HEALTH AND SAFETY CODE, WATER CODE, TITLES 22 AND 17 OF THE CALIFORNIA CODE OF REGULATIONS) AND THE LOS ANGELES COUNTY CODE (LACC), TITLE 28 – PLUMBING, APPENDIX J.

PRELIMINARY REQUIREMENTS

- Plans and specifications for recycled / reclaimed wastewater distribution systems, as well as the use and operation of such systems shall be submitted to the Department for review and approval prior to construction or implementation.
- Prior to commencing construction, the Contractor shall contact the Department to schedule an inspection of the proposed on-site recycled / reclaimed and potable water work.
- No piping for potable or recycled / reclaimed water in conjunction with a specified project shall be installed prior to plan check approval and preliminary inspection.
- Upon completion of construction, no excavation or open trench may be backfilled without first securing the Department approval. Any areas backfilled without prior approval will be required to be exposed and corrected as necessary.
- Only a Department approved temporary water connection, to a potable water supply via a dedicated, approved, reduced-pressure-principle backflow prevention device shall be permitted to be utilized for the purpose of flushing, pressure testing, construction, landscape use or the final cross-connection testing.

SEPARATION REQUIREMENTS

The maximum attainable separation of recycled / reclaimed wastewater lines and potable water lines shall be enforced in order to minimize potential risks associated with pipeline breaks resulting in infiltration of wastewater from leaking wastewater lines into domestic water lines, or accidental cross-connections between recycled wastewater and potable water systems.

- Parallel Construction:** A horizontal separation of at least ten feet (10') shall be required between pressurized, buried, recycled / reclaimed and potable water piping (all distance to be measured from pipeline outside diameter).

- Cross-Over Construction:** Buried potable water pipes crossing over pressurized recycled / reclaimed water pipes shall be laid not less than twelve inches (12") above the reclaimed water pipes. Reclaimed water pipes laid in the same trench or crossing-over building sewer or drainage piping shall be installed in compliance with the LACC – Title 28, Plumbing, Sections 609.0 and 720.0.
- Unused or Abandoned Potable Water Lines:** These lines are to be severed as close to water mains as practical, capped, and a ten foot (10') section of abandoned line removed and cemented under direct supervision by the Department.
- Existing On-site Piping:** Maximum separation of recycled / reclaimed wastewater lines and potable water lines shall be maintained upon system additions or modification.

PIPELINE MATERIALS AND IDENTIFICATION

All recycled / reclaimed water pipe materials, valves and fittings shall conform to the requirements of the LACC – Title 28, Plumbing, Sections 604.0, 605.0 and 606.0.

All recycled / reclaimed wastewater lines (pressure / non-pressure), valve boxes, hydrants and appurtenances shall be identified to clearly distinguish between recycled / reclaimed wastewater, non-potable and potable water systems (as specified in LACC – Title 28, Plumbing, Appendix J).

- Recycled / Reclaimed Wastewater:** All buried, recycled, wastewater systems (pressure / non-pressure) shall utilize purple pipe with black uppercase lettering "CAUTION: RECYCLED WATER – DO NOT DRINK" printed on opposite sides of the pipe. For limited application, the use of continuous lettering on three inch (3") minimum width purple tape with one inch black or white contrasting uppercase lettering "CAUTION RECYCLED WATER – DO NOT DRINK" permanently affixed at intervals not to exceed five feet, atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. All valves, except fixture supply control valves shall be equipped with a locking feature. All mechanical equipment that is appurtenant to the recycled / reclaimed water system shall be painted purple.
- Potable Water:** All potable water lines shall be installed in accordance with the Uniform Plumbing Code and all other applicable potable water system construction standards. All buried potable water lines shall be clearly identified by continuous lettering on three inch (3") minimum width blue tape with one inch (1") white lettering bearing the repeated wording "POTABLE WATER" permanently affixed at ten foot intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping and hydrants. Identification tape is not necessary for extruded colored PVC with continuous wording "POTABLE WATER" printed in contrasting lettering on opposite sides of the pipe.

- Non-Potable Water:** All non-potable irrigation / industrial water lines (pressure / non-pressure) shall be identified by continuous lettering on three inch (3") minimum width tape with one inch (1") contrasting lettering bearing the continuous uppercase lettering "NON-POTABLE WATER – DO NOT DRINK" permanently affixed at ten foot (10') intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. Exposed piping, valve boxes, vaults, control valves, quick coupling valves, outlets and related appurtenances shall be color-coded and labeled / tagged to differentiate between recycled / reclaimed wastewater, potable water and non-potable water systems. Tags identifying recycled / reclaimed water shall have the appropriate identification on both sides (wording on one side and symbol on the opposite side).



THE SAFE USE OF RECYCLED / RECLAIMED WATER PROTECTS POTABLE WATER

- Deteriorated or inadequately-protected well water casings shall be repaired or replaced to protect aquifers against contamination from recycled / reclaimed wastewater systems.
- An On-Site Water Supervisor shall be appointed, having the responsibility of oversight for the protection of the potable water system (provided for under Title 17, Section 7586, and California Code of Regulations). The name and position of the On-Site Water Supervisor shall be reported to the water purveyor and to the Department. This position will be responsible for the installation, operation and maintenance of the recycled / reclaimed wastewater and potable water systems; authorization of any piping changes or additions to either the potable or recycled systems; prevention of potential hazards; implementation of the regulations, and coordination with the Cross-Connection Program of the water purveyor and of this Department.
- Hose bibbs shall not be permitted in any areas of public access to recycled / reclaimed wastewater systems, to prevent unauthorized use of recycled wastewater. Quick-couplers are permitted in lieu of hose-bibb outlets but shall only be connected to recycled / reclaimed wastewater lines. Hose bibbs may be permitted in areas that are not accessible to the public, provided they are properly identified with permanently affixed tags, labels, or plates with uppercase lettering "RECYCLED WATER – DO NOT DRINK" in English.

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SCALE	AS NOTED
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DRAWN BY	EAC
CHECKED BY	MWB



PLANS PREPARED BY:
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(949) 809-5010 FAX

**WEST BASIN MUNICIPAL
WATER DISTRICT**
RECYCLED WATER CUSTOMER DEVELOPMENT

SEASIDE HEROES PARK
DPH RECYCLED WATER GUIDELINES

PROJECT NO.
09265.09001

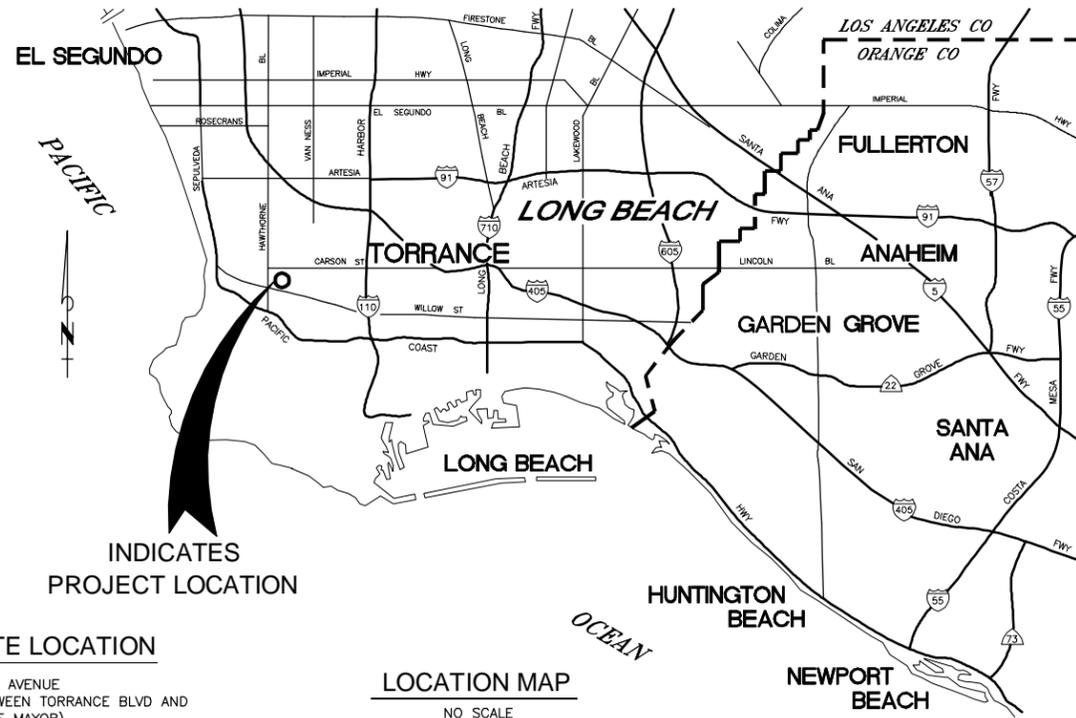
DWG. NO. 4 OF 4

WEST BASIN MUNICIPAL WATER DISTRICT

EXPANDING RECYCLED WATER SERVICE - ON-SITE FACILITIES RETROFIT ANZA AVENUE MEDIANS, TORRANCE, CA JANUARY 2012

SHEET INDEX

SHEET	DESCRIPTION
1	GENERAL INFORMATION AND KEY MAP
2	SITE PLAN 1
3	SITE PLAN 2
4	SITE PLAN 3
5	SITE PLAN 4
6	SITE PLAN 5
7	SITE PLAN 6
8	SITE PLAN 7
9	SITE PLAN 8
10	SITE PLAN 9
11	SITE PLAN 10
12	SITE PLAN 11
13	SITE PLAN 12
14	SITE PLAN 13
15	SITE PLAN 14
16	SITE PLAN 15
17	SITE PLAN 16
18	SITE PLAN 17
19	SITE PLAN 18
20	SITE PLAN 19
21	SITE PLAN 20
22	SITE PLAN 21
23	SITE PLAN 22
24	SITE PLAN 23
25	SITE PLAN 24
26	SITE PLAN 25
27	SITE PLAN 26
28	SITE PLAN 27
29	SITE PLAN 28
30	SITE PLAN 29
31	SITE PLAN 30
32	SITE PLAN 31
33	SITE PLAN 32
34	SITE PLAN 33
35	SITE PLAN 34
36	SITE PLAN 35
37	SITE PLAN 36
38	SITE PLAN 37
39	SITE PLAN 38
40	SITE PLAN 39
41	SITE PLAN 40
42	SITE PLAN 41
43	SITE PLAN 42
44	SITE PLAN 43
45	SITE PLAN 44
46	DETAILS
47	DPH RECYCLED WATER GUIDELINES



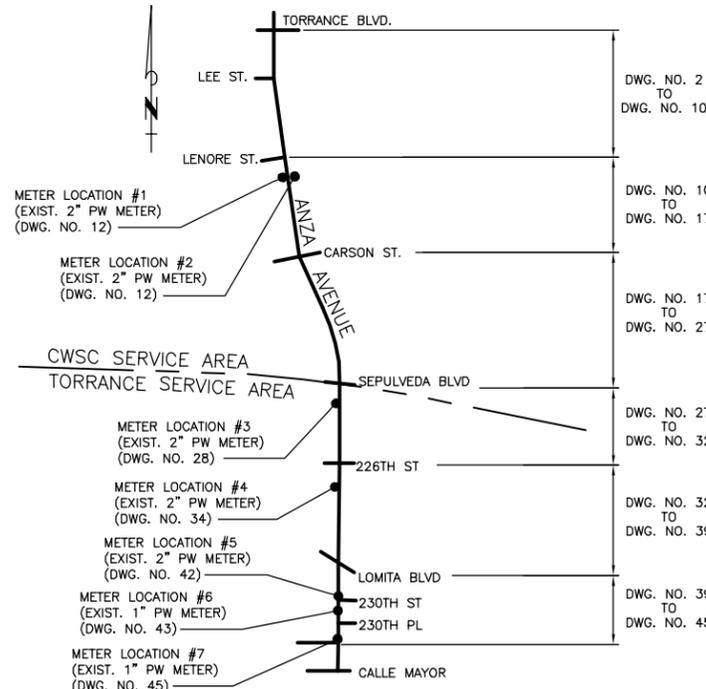
SITE LOCATION

ANZA AVENUE
(BETWEEN TORRANCE BLVD AND
CALLE MAYOR)
TORRANCE, CA 90503

LOCATION MAP

NO SCALE

ANZA AVENUE MEDIANS



KEY MAP

N.T.S.

CONTACTS

WEST BASIN MUNICIPAL WATER DISTRICT:
FRANK FUCHS,
PROJECT MANAGER
(310) 660-6255

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH:
CARLOS BORJA
(626) 430-5295

OWNER/ WATER PURVEYOR:
CITY OF TORRANCE
20500 MADRONA AVE.
TORRANCE, CA 90503
(310) 618-3059

WATER PURVEYOR:
CALIFORNIA WATER SERVICES CO.
DOMINGUEZ DISTRICT
GEORGE COOK
(310) 420-8603

ESTIMATED SIGNING & TAGGING QUANTITIES

	RECYCLED
RECYCLED WATER IDENTIFICATION SIGNS	34
IRRIGATION CONTROL VALVES	35
QUICK COUPLERS	0
METERS	7
CONTROLLER	3
HOSE BIB REMOVALS	20

SYMBOLS AND ABBREVIATIONS

	CENTER LINE
	EXIST. POTABLE WATER LINE
	EXIST. RECYCLED WATER LINE
	EXIST. MAIN IRRIGATION LINE
	EXIST. IRRIGATION LATERAL
	PROPOSED RW
	EXIST. SEWER
	EXIST. METER
	EXIST. REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
	EXIST. DOUBLE CHECK ASSEMBLY
	EXIST. ELECTRIC CONTROL VALVE
	EXIST. QUICK COUPLING VALVE
	EXIST. HOSE BIB
	EXIST. GATE VALVE
	EXIST. VACUUM BREAKER
	PRESSURE REDUCING VALVE (PRV)
	ELECTRICAL AUTOMATIC CONTROLLER (E.A.C.) "A", "B", "C", ETC.
	CAP
	FIRE HYDRANT
	RECYCLED WATER IDENTIFICATION SIGN
D.I.	DUCTILE IRON
EXIST.	EXISTING
F.H.	FIRE HYDRANT
FLG	FLANGED
LF	LINEAR FEET
MIN.	MINIMUM
PE	PLAIN END
PO	PUSH-ON
POC	POINT OF CONNECTION
PW	POTABLE WATER
RPPD	REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
RW	RECYCLED WATER

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS INC., THE CITY OF TORRANCE STANDARDS, AND THE RECYCLED WATER URBAN IRRIGATION USER'S MANUAL, LATEST EDITIONS.
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT LEAST TWELVE INCHES (12") ABOVE GRADE, READILY ACCESSIBLE FOR FIELD TEST AND MAINTENANCE, AND AS CLOSE TO THE POTABLE WATER METER AS PRACTICAL.
- CONTRACTOR SHALL REMOVE ALL HOSE BIBS FOUND ON THE EXISTING IRRIGATION SYSTEM AND CAP OR PLUG BELOW GROUND.
- QUICK COUPLERS AND ELECTRICAL CONTROLLERS SHALL BE IDENTIFIED WITH THE PROPER TAGS AND LABELS. QUICK COUPLERS SHALL BE INSTALLED IN BOXES.
- EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. NO PLANS WERE AVAILABLE FOR THE SOUTHERN PORTION OF THE IRRIGATION SYSTEM FROM SEPULVEDA TO CALLE MAYOR. THE CONTRACTOR IS REQUIRED TO VERIFY AND DOCUMENT ON AS-BUILT DRAWINGS THE ACTUAL LOCATION AND ELEVATIONS IN THE FIELD OF ALL UTILITIES AND ALL POINTS OF CONNECTION. THE FIELD VERIFICATION (POTHOLING) SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY MODIFICATIONS TO THE IRRIGATION SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLANS. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR. ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS AND CORRECTNESS ARE IN NO WAY GUARANTEED.
- ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS ARE IN NO WAY GUARANTEED.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF ALL PRIVATE FACILITIES AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- RECYCLED WATER SIGNS SHALL BE INSTALLED AT LOCATIONS AGREEABLE TO THE CITY OF TORRANCE AND DPH. SIGNAGE SIZE AND WORDING SHALL BE APPROVED BY THE CITY OF TORRANCE. SIGNS SHALL BE A MINIMUM OF 18"x24" IN SIZE AND AT A MINIMUM INCLUDING WORDING "RECYCLED WATER-DO NOT DRINK" AND DISPLAY THE INTERNATIONAL SYMBOL SHOWN ON FIGURE 30610-A IN TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS. SIGNS SHALL BE MOUNTED ON A GALVANIZED STEEL POST OR U-CHANNEL POST. POST OR U-CHANNEL SHALL BE EMBEDDED 16" INTO AN 8" DIAMETER, 20" DEEP CONCRETE FOOTING. CONCRETE SHALL BE 3250 PSI. TOP OF SIGN SHALL BE CUT AT A MAX. HEIGHT OF 48" FROM THE FINISHED GRADE.
- ALL CONCRETE SHALL BE 560-C-3250 UNLESS OTHERWISE SPECIFIED.
- PRIOR TO DELIVERING RECYCLED WATER TO THE ANZA AVENUE MEDIANS, A SUCCESSFUL CROSS CONNECTION AND COVERAGE TEST WILL BE REQUIRED. THE FOLLOWING AGENCIES MAY BE PARTICIPATING IN THE TESTS: WBMWD, CITY OF TORRANCE WATER DEPARTMENT, CALIFORNIA WATER SERVICES COMPANY (CWSC), COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH SERVICES, STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, AND A REPRESENTATIVE FROM TETRA TECH. CONTRACTOR WILL BE REQUIRED TO SEQUENCE THEIR WORK TO ALLOW FOR THE CROSS CONNECTION AND COVERAGE TESTS PRIOR TO PERFORMING THE DISCONNECTION OF THE POTABLE WATER AND CONNECTION OF THE RECYCLED WATER TO THE EXISTING IRRIGATION SYSTEM. THE CONTRACTOR SHALL PLAN TO PROVIDE 8 HRS OF LABOR TO ASSIST DURING TESTING.
- CONTRACTOR SHALL REPAIR ANY BROKEN IRRIGATION LINES WITHIN THE AREA OF WORK AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SOD TO THE SATISFACTION OF THE CITY OF TORRANCE.
- CONTRACTOR SHALL PAINT PURPLE (PANTONE 512) AND LABEL AT A 3 FOOT INTERVAL ALL EXPOSED IRRIGATION PIPING. PIPING SHALL BE LABELED WITH THE WORDS, "CAUTION: RECYCLED WATER - DO NOT DRINK" IN BLACK TO IDENTIFY THEM AS RECYCLED WATER PER LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH REQUIREMENTS. LETTERING HEIGHT SHALL BE A MINIMUM OF 3" IN HEIGHT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, TAG, AND/OR MODIFY ANY QUICK COUPLERS OR IRRIGATION CONTROL VALVES FOUND IN THE FIELD AND NOT SHOWN ON THE PLANS.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE CITY OF TORRANCE REQUIREMENTS.
- QUICK COUPLING VALVES TO BE INSTALLED ON AN IRRIGATION SYSTEM SERVED RECYCLED WATER SHALL BE OF BRASS CONSTRUCTION WITH A PERMANENTLY ATTACHED PURPLE RUBBER OR VINYL COVER WITH THE WORDS "RECYCLED WATER" IMPRINTED ON THE COVER. THE VALVE SHALL BE NELSON 42 WITH A 40K KEY (ACME THREAD) OR APPROVED EQUAL.
- CONTRACTOR SHALL NOTIFY WBMWD A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO EXISTING WBMWD RECYCLED WATER FACILITIES. CONTRACTOR SHALL CONTACT GEORGE COOK AT (310) 420-8603.

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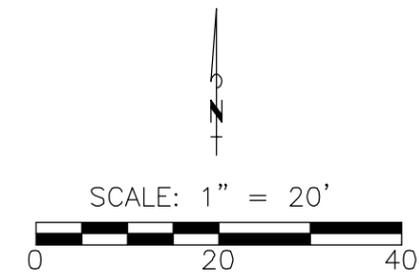
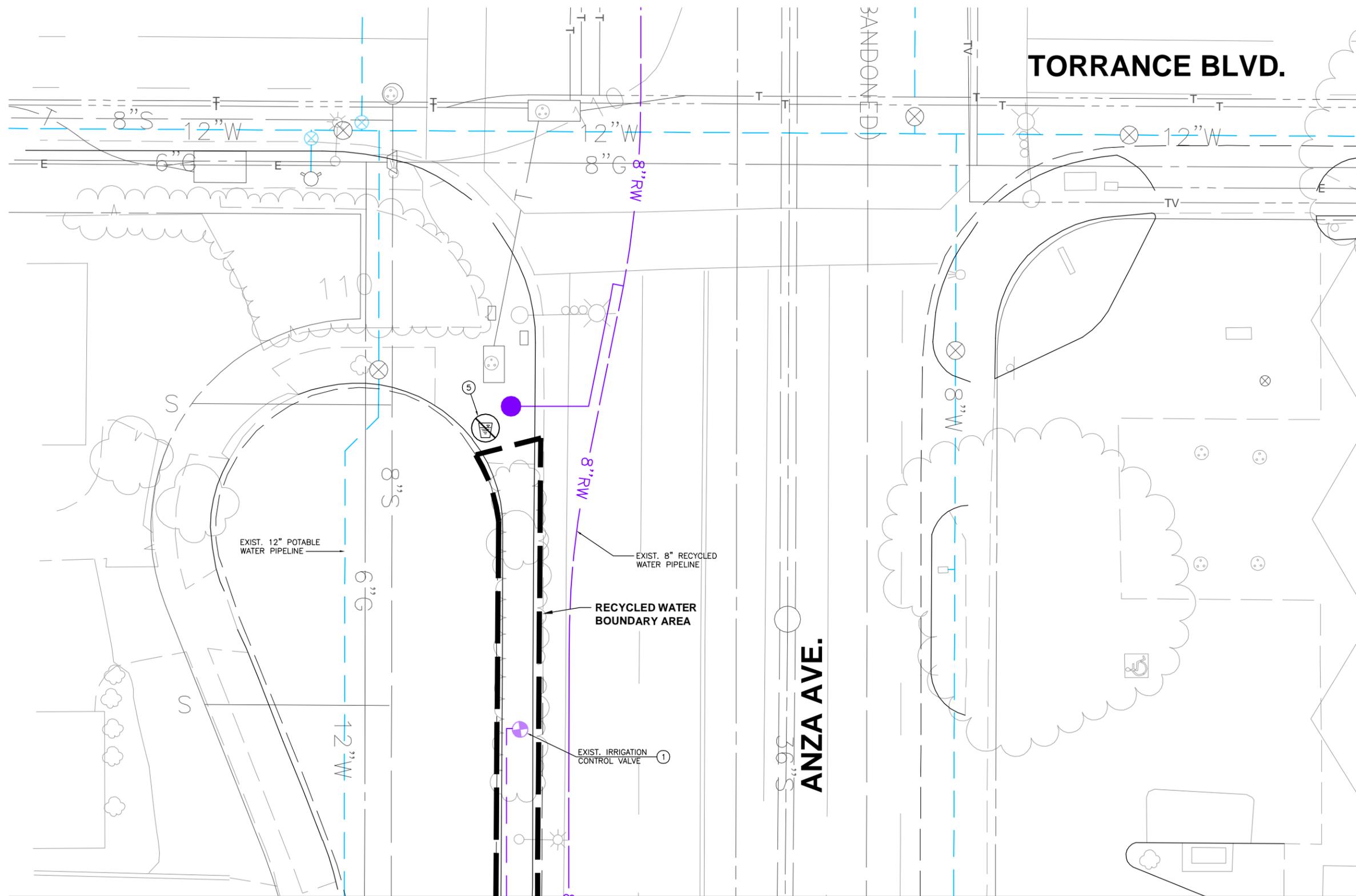


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WEST BASIN MUNICIPAL WATER DISTRICT
EXPANDING RECYCLED WATER SERVICE

ANZA AVENUE MEDIANS
GENERAL INFORMATION AND KEY MAP

PROJECT NO.	3915.0011.00
DWG. NO.	1 OF 47



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 3

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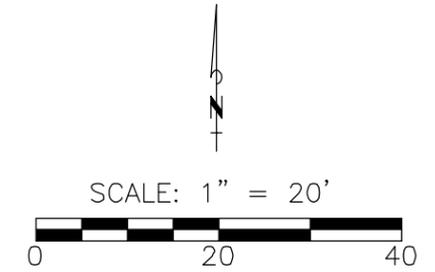
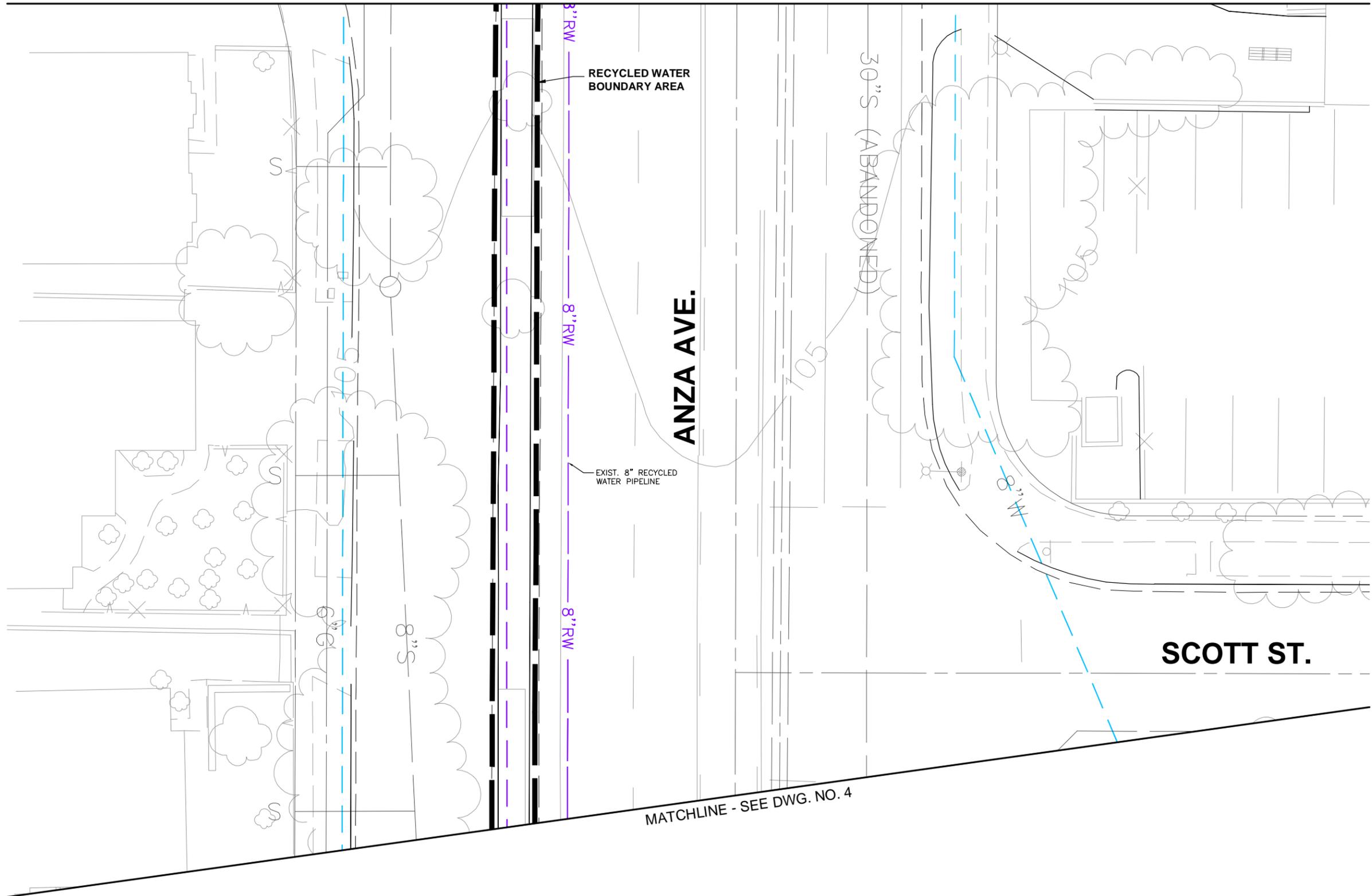
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 1

PROJECT NO.
 3915.0011.00
 DWG. NO. 2 OF 47

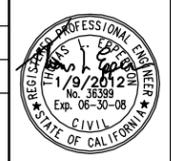
MATCHLINE - SEE DWG. NO. 2



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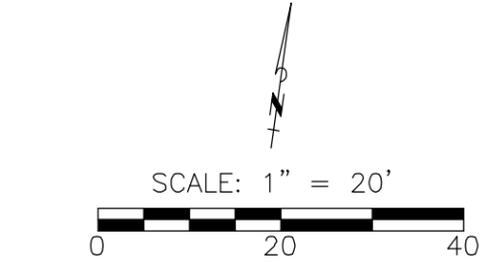
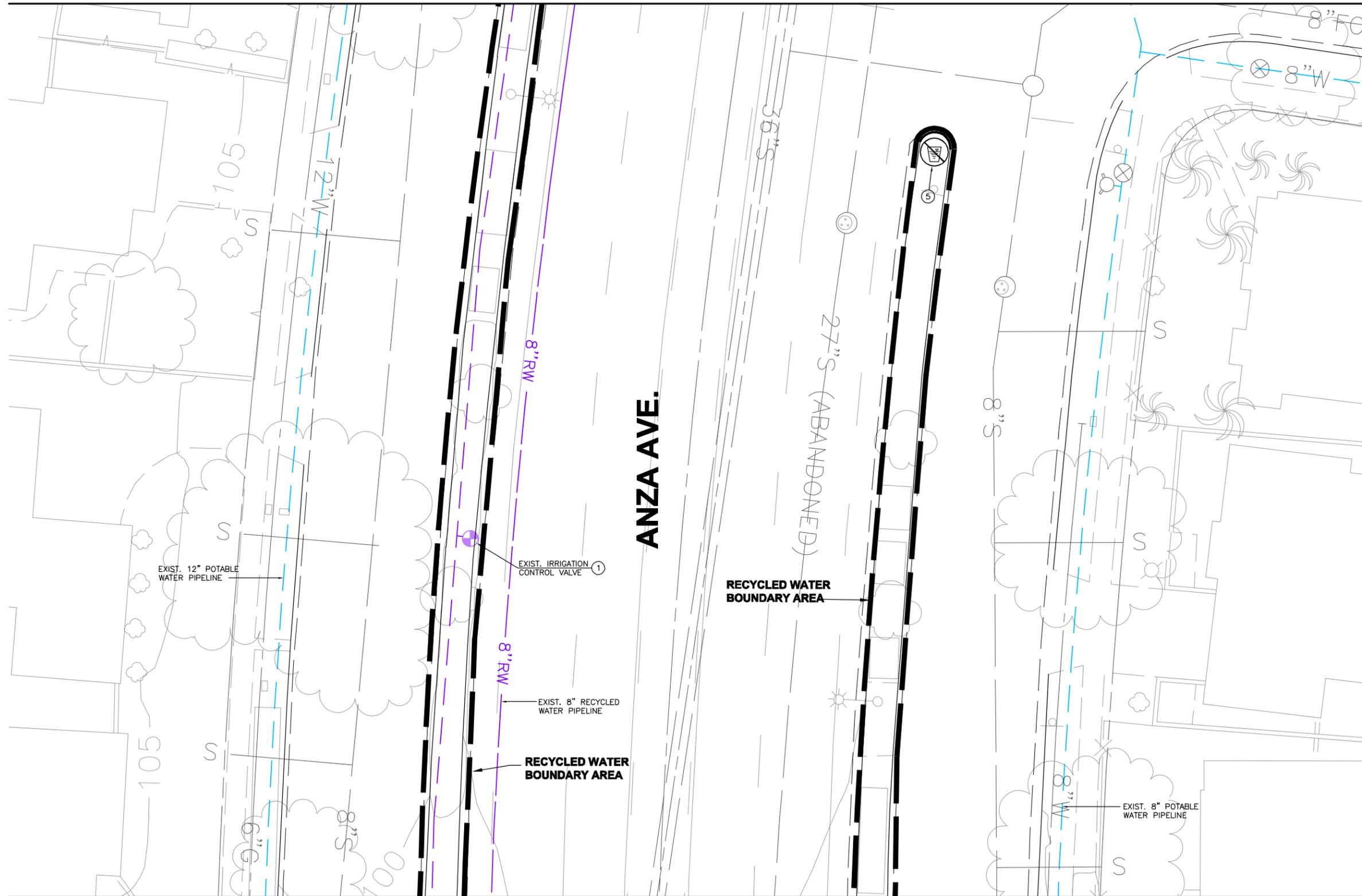
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 2

PROJECT NO.
 3915.0011.00
 DWG. NO. **3** OF **47**

MATCHLINE - SEE DWG. NO. 3



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MATCHLINE - SEE DWG. NO. 5

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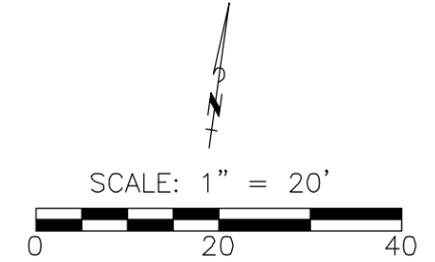
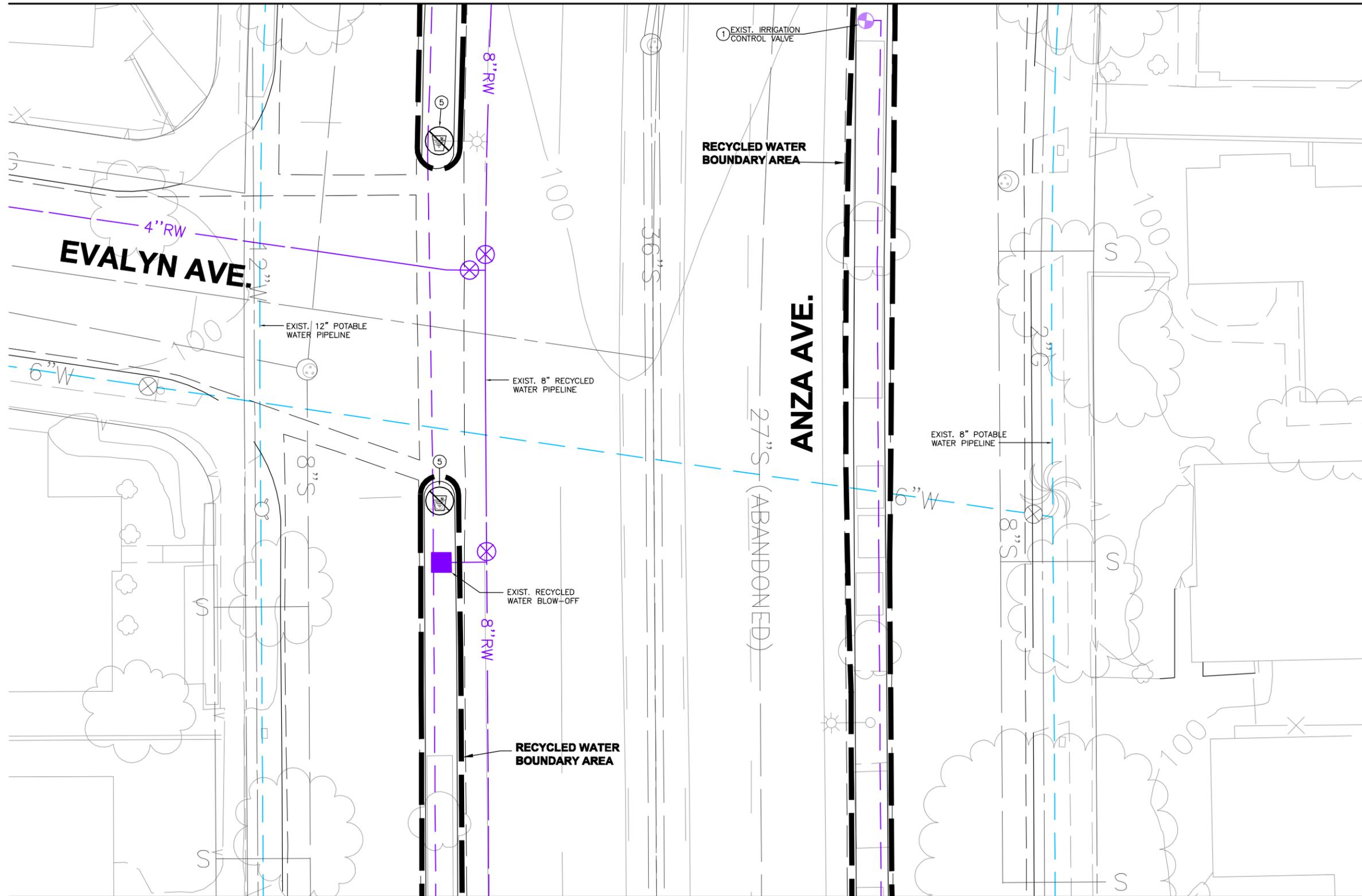
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 3**

PROJECT NO.
3915.0011.00

DWG. NO. **4** OF **47**

MATCHLINE - SEE DWG. NO. 4



SIGNING AND TAGGING NOTES:

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MATCHLINE - SEE DWG. NO. 6

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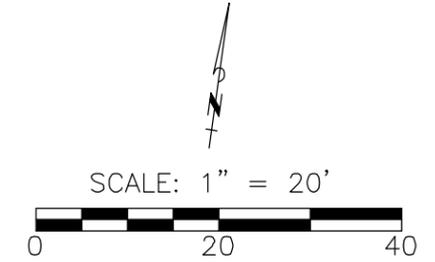
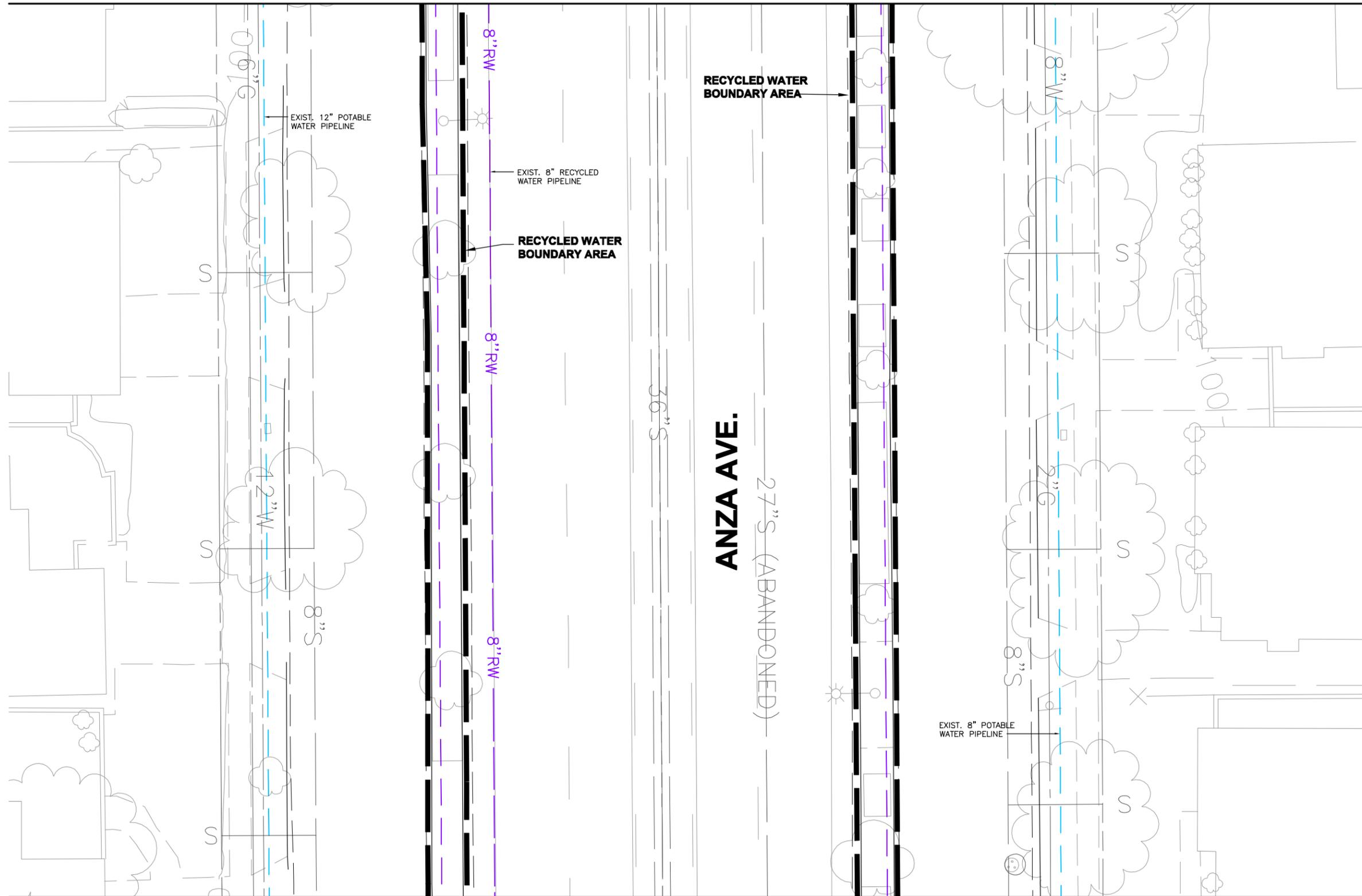
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 4**

PROJECT NO.
3915.0011.00

DWG. NO. 5 OF 47

MATCHLINE - SEE DWG. NO. 5



SIGNING AND TAGGING NOTES:

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MATCHLINE - SEE DWG. NO. 7

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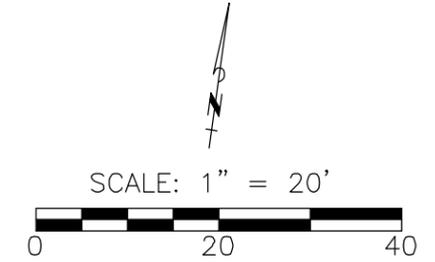
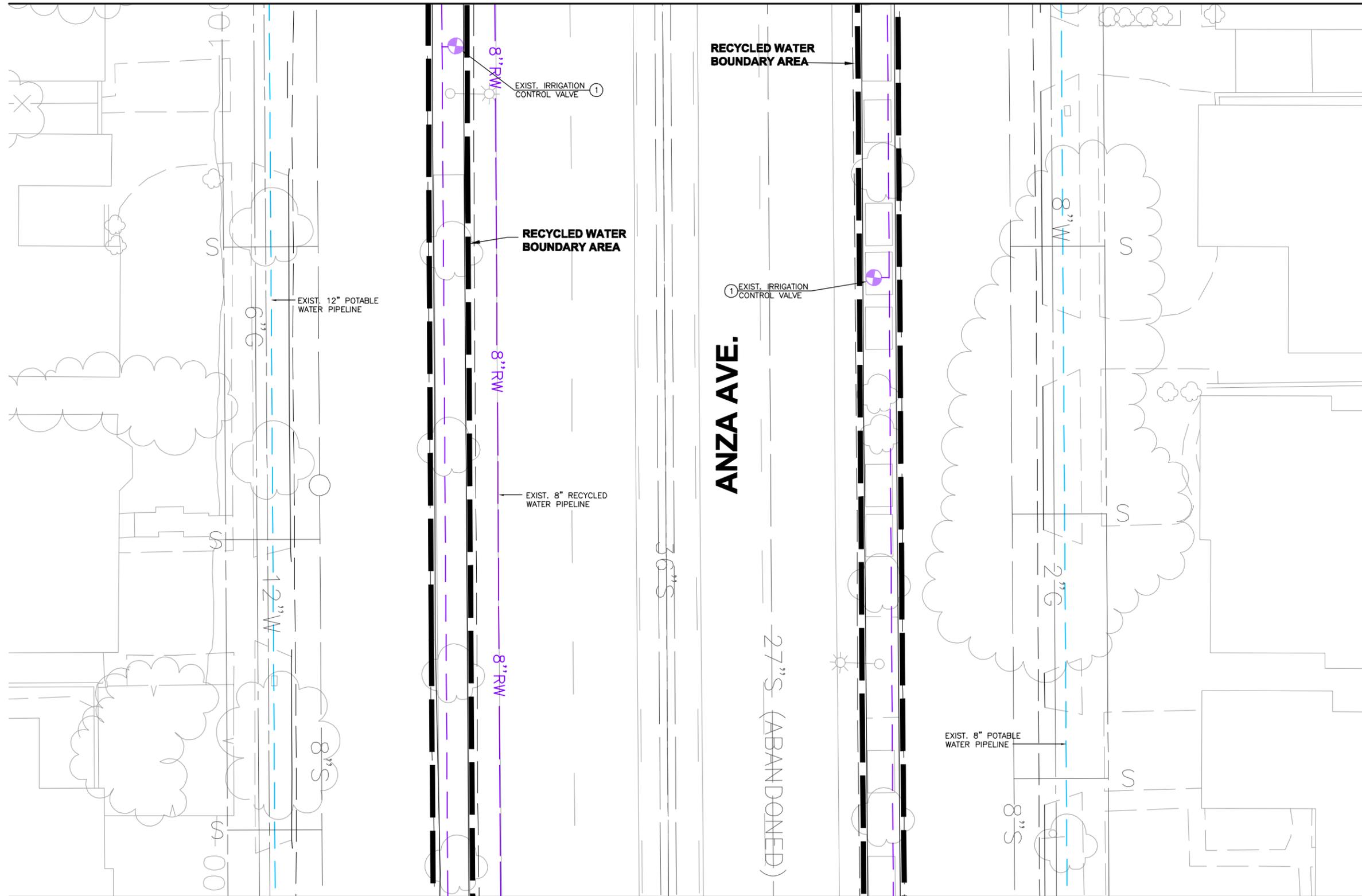
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 5**

PROJECT NO.
3915.0011.00

DWG. NO. **6** OF **47**

MATCHLINE - SEE DWG. NO.6



SIGNING AND TAGGING NOTES:

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MATCHLINE - SEE DWG. NO. 8

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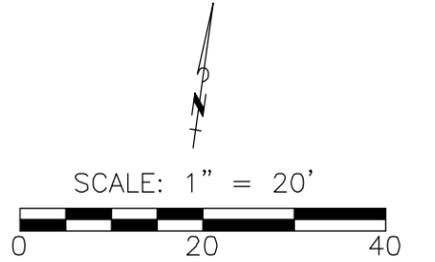
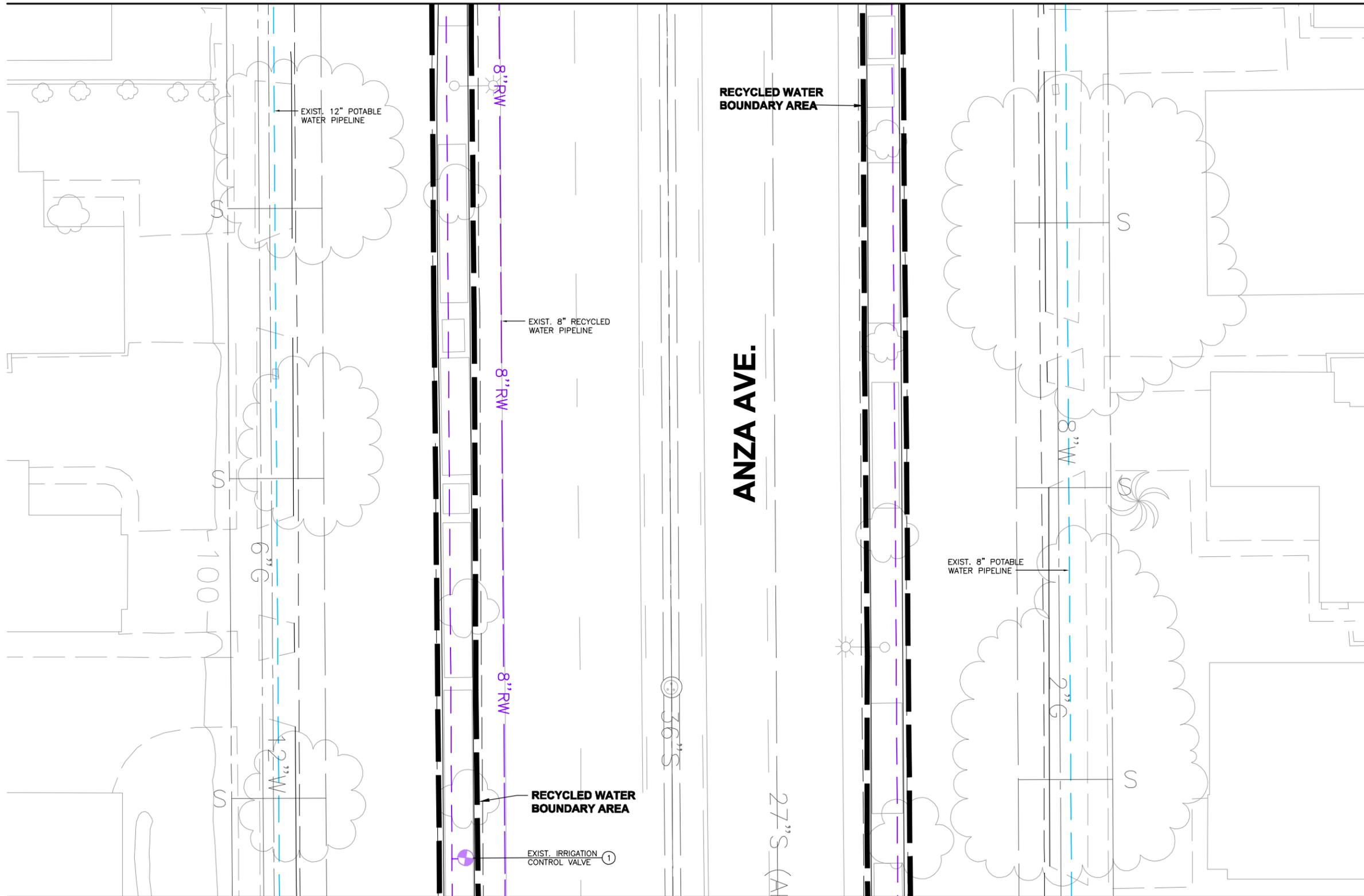
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 6**

PROJECT NO.
3915.0011.00

DWG. NO. 7 OF 47

MATCHLINE - SEE DWG. NO. 7



- SIGNING AND TAGGING NOTES:**
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MATCHLINE - SEE DWG. NO. 9

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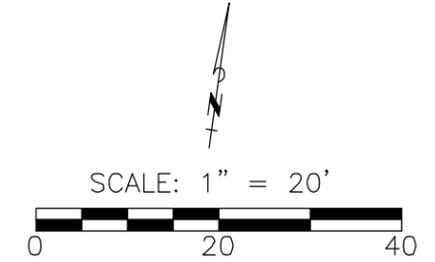
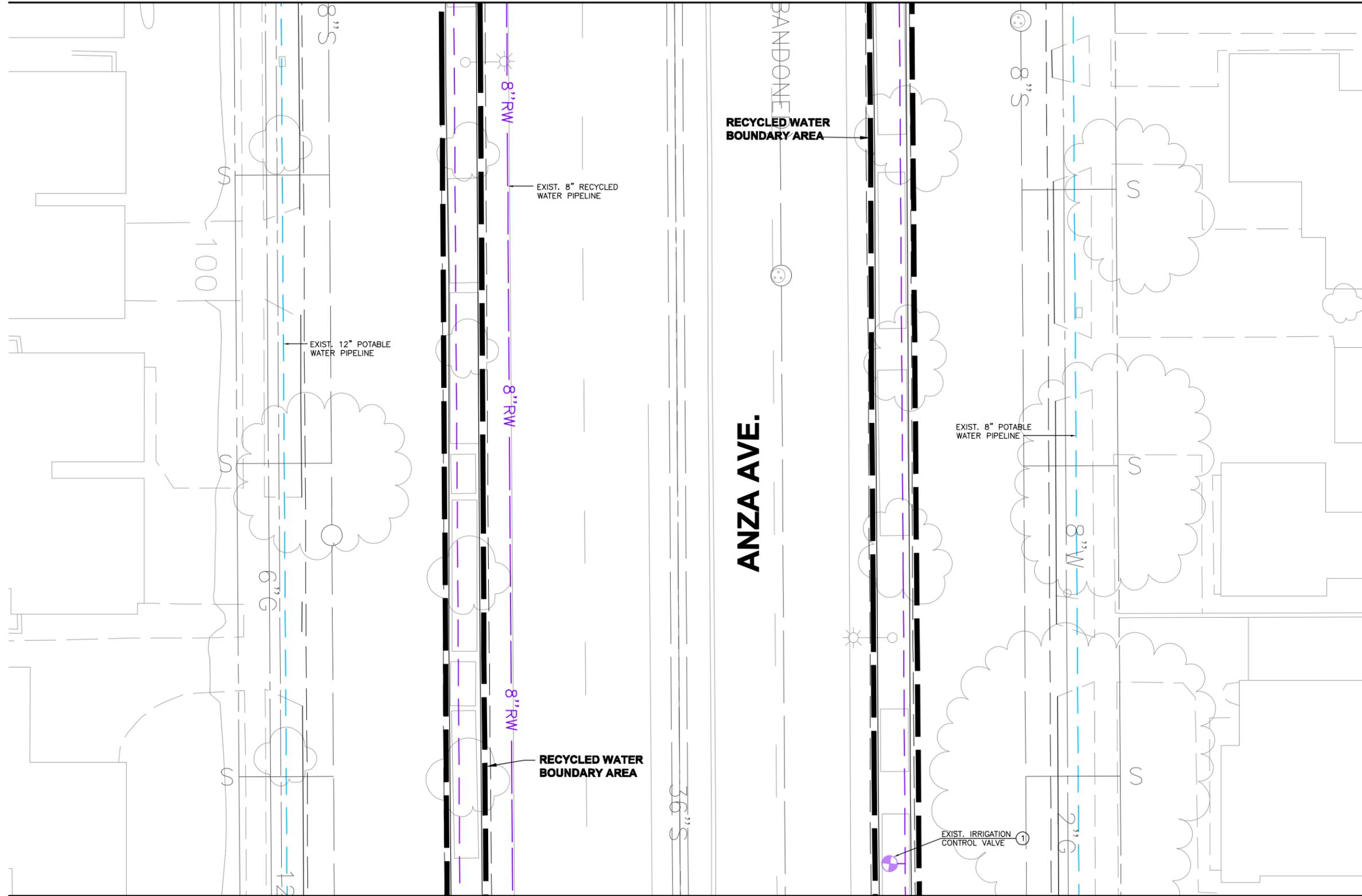
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 7**

PROJECT NO.
3915.0011.00

DWG. NO. **8** OF **47**

MATCHLINE - SEE DWG. NO. 8



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MATCHLINE - SEE DWG. NO. 10

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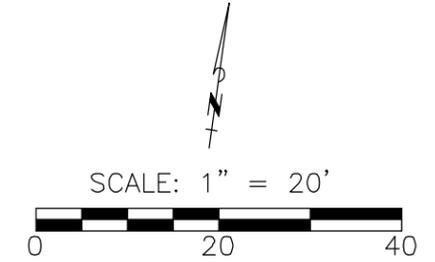
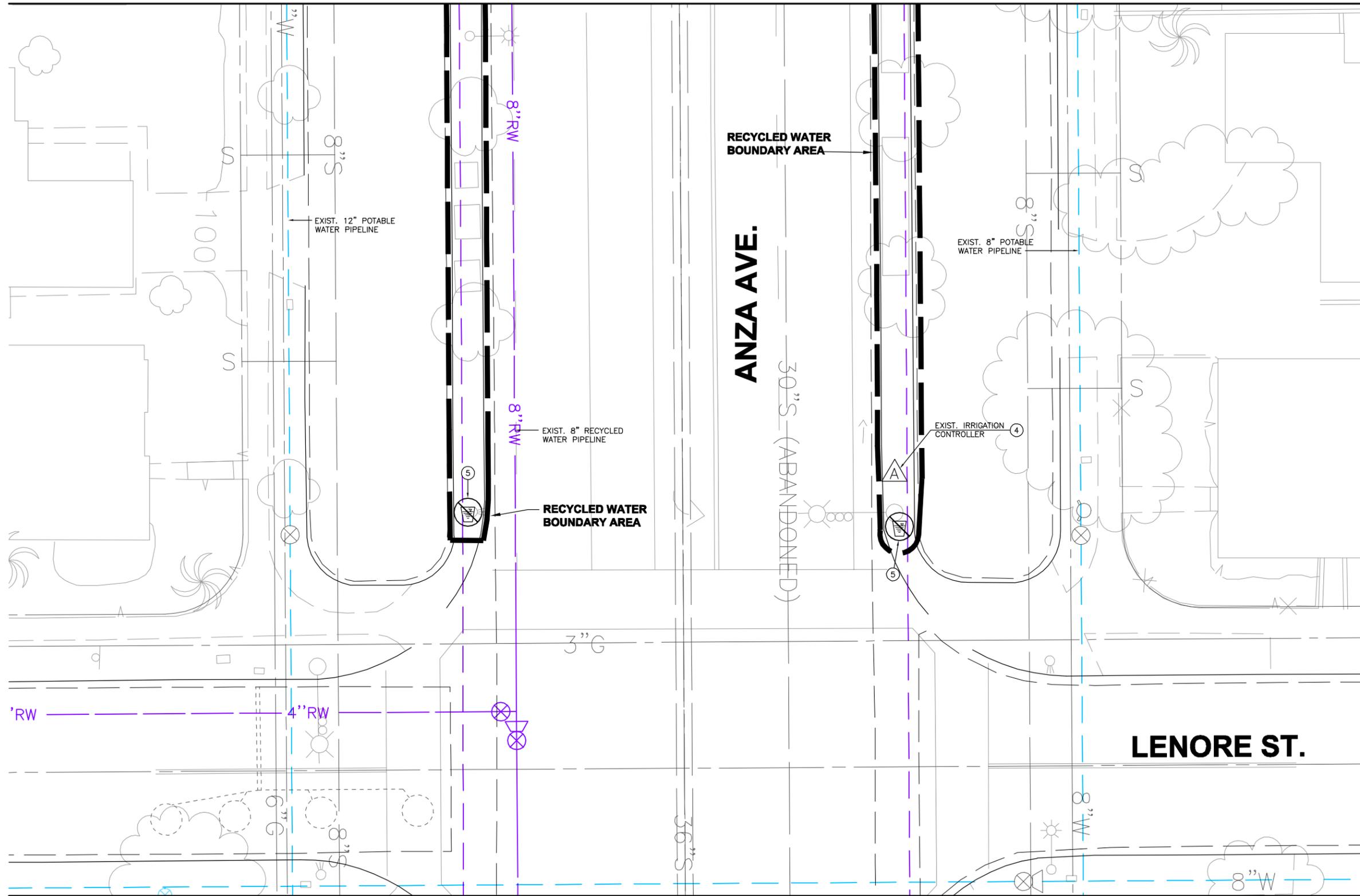
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 8**

PROJECT NO.
3915.0011.00

DWG. NO. **9** OF **47**

MATCHLINE - SEE DWG. NO. 9



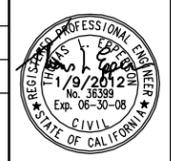
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MATCHLINE - SEE DWG. NO. 11

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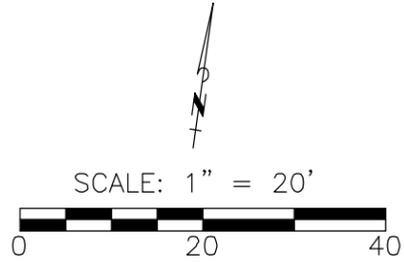
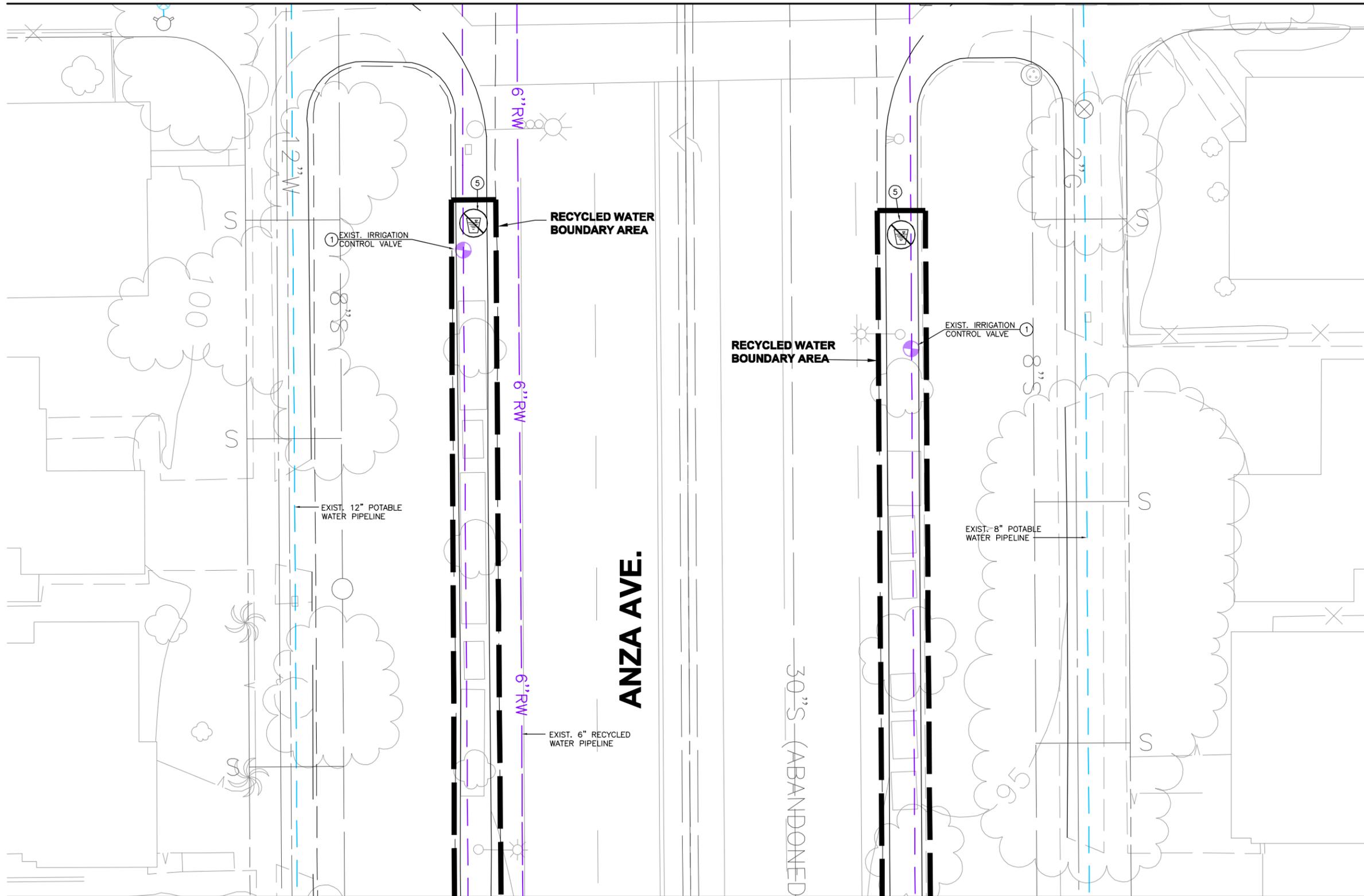
**WEST BASIN MUNICIPAL
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 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 9**

PROJECT NO.
3915.0011.00

DWG. NO. 10 OF 47

MATCHLINE - SEE DWG. NO. 10



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- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 12

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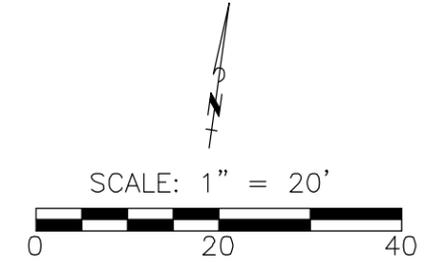
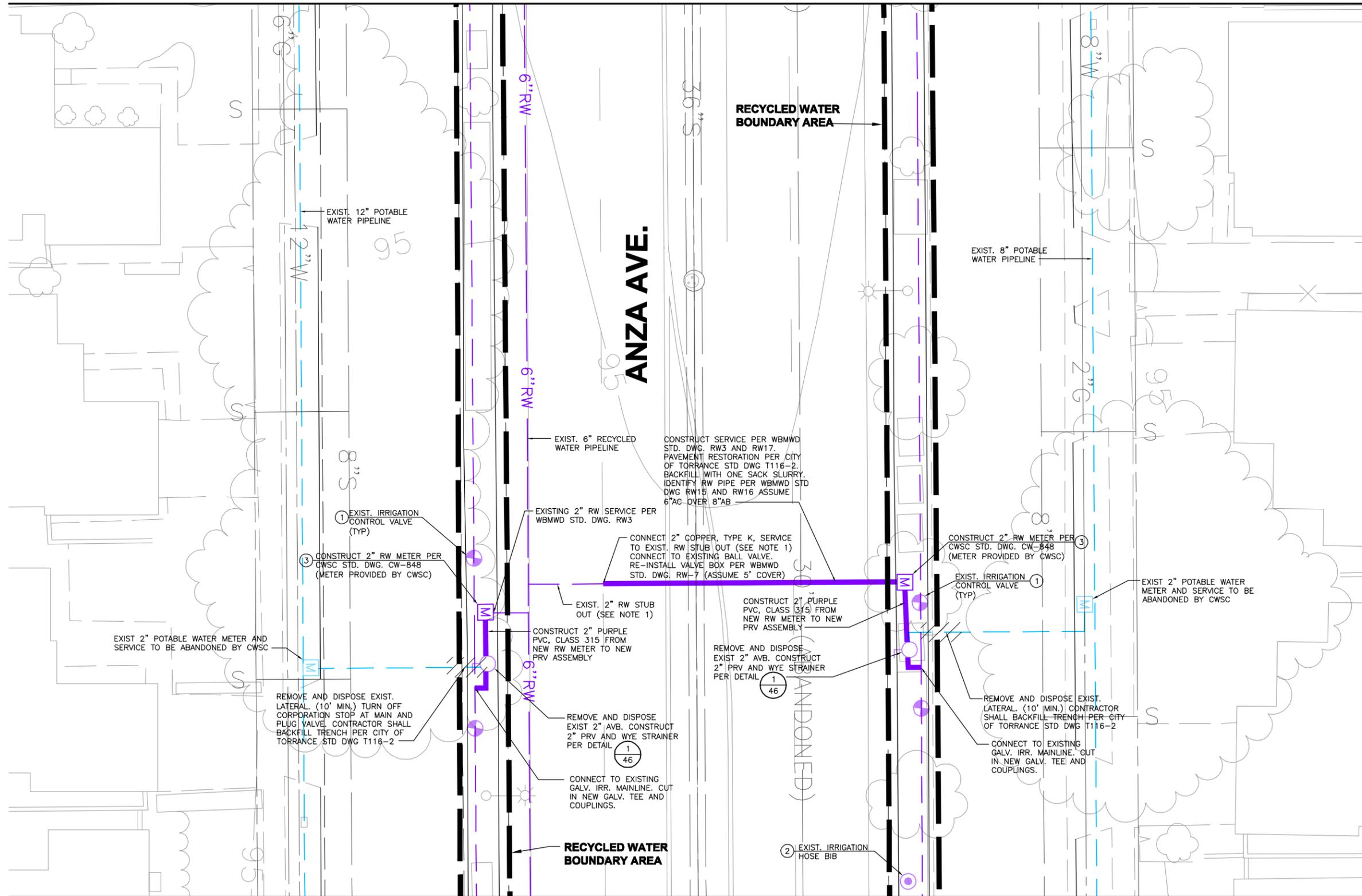
PLANS PREPARED BY:
TETRA TECH, INC.
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 10

PROJECT NO.
 3915.0011.00
 DWG. NO. 11 OF 47

MATCHLINE - SEE DWG. NO. 11



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

NOTES TO CONTRACTOR:

1. CONTRACTOR SHALL LOCATE IN THE FIELD THE EXISTING 2" RW SERVICE LATERAL TO VERIFY CONNECTION POINT AND CONNECTION REQUIREMENTS PRIOR TO BEGINNING CONSTRUCTION.
2. FINAL LOCATION OF RW METER TO BE DETERMINED IN THE FIELD.

MATCHLINE - SEE DWG. NO. 13

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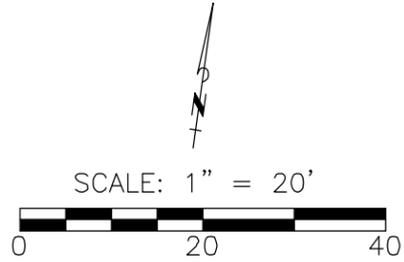
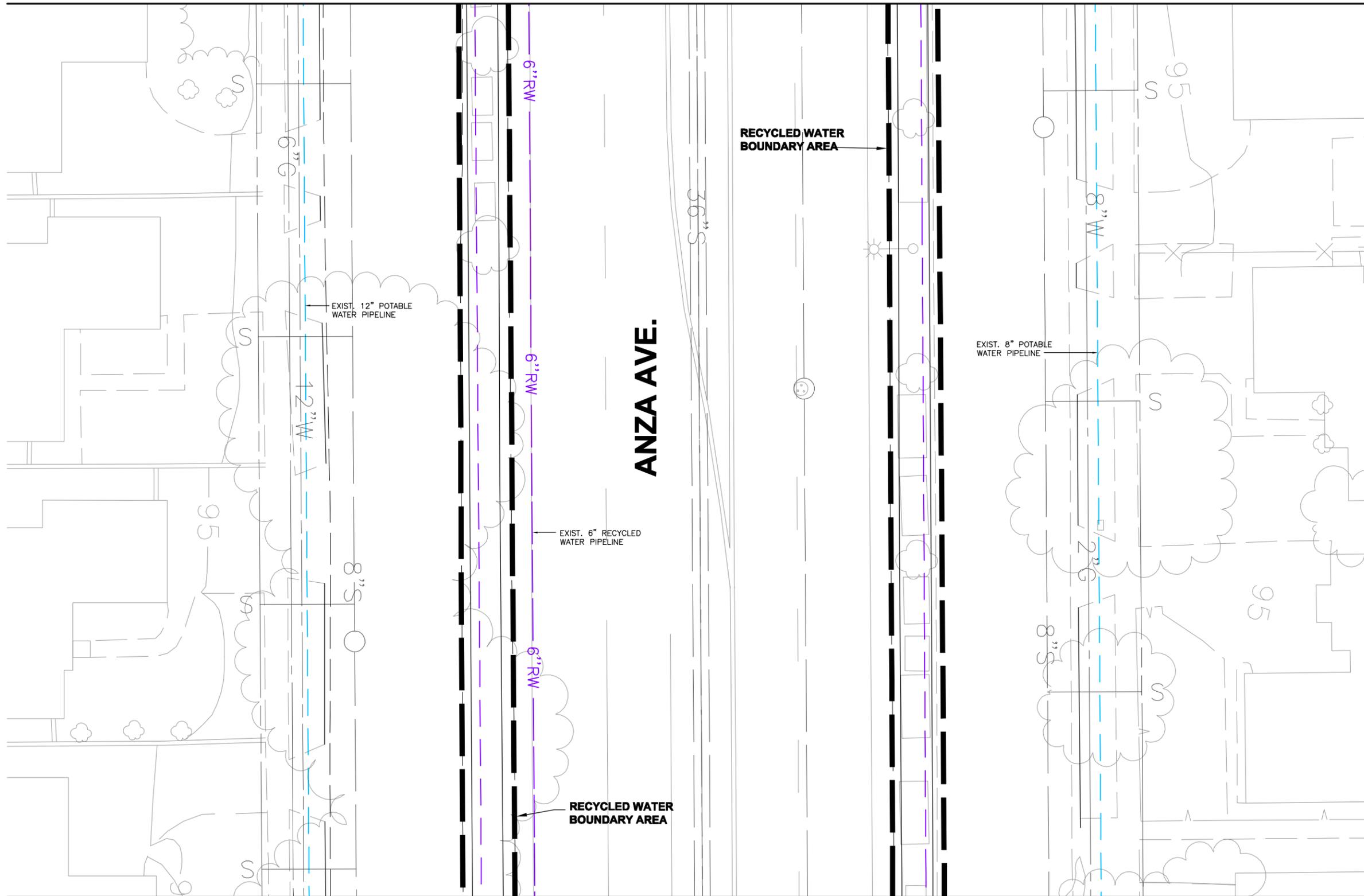
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 11**

PROJECT NO.
3915.0011.00
 DWG. NO. 12 OF 47

MATCHLINE - SEE DWG. NO. 12



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 14

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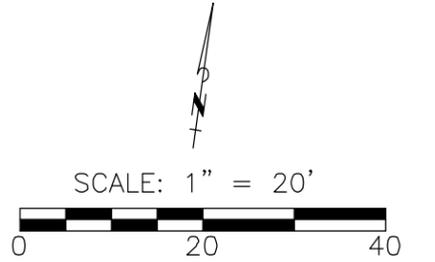
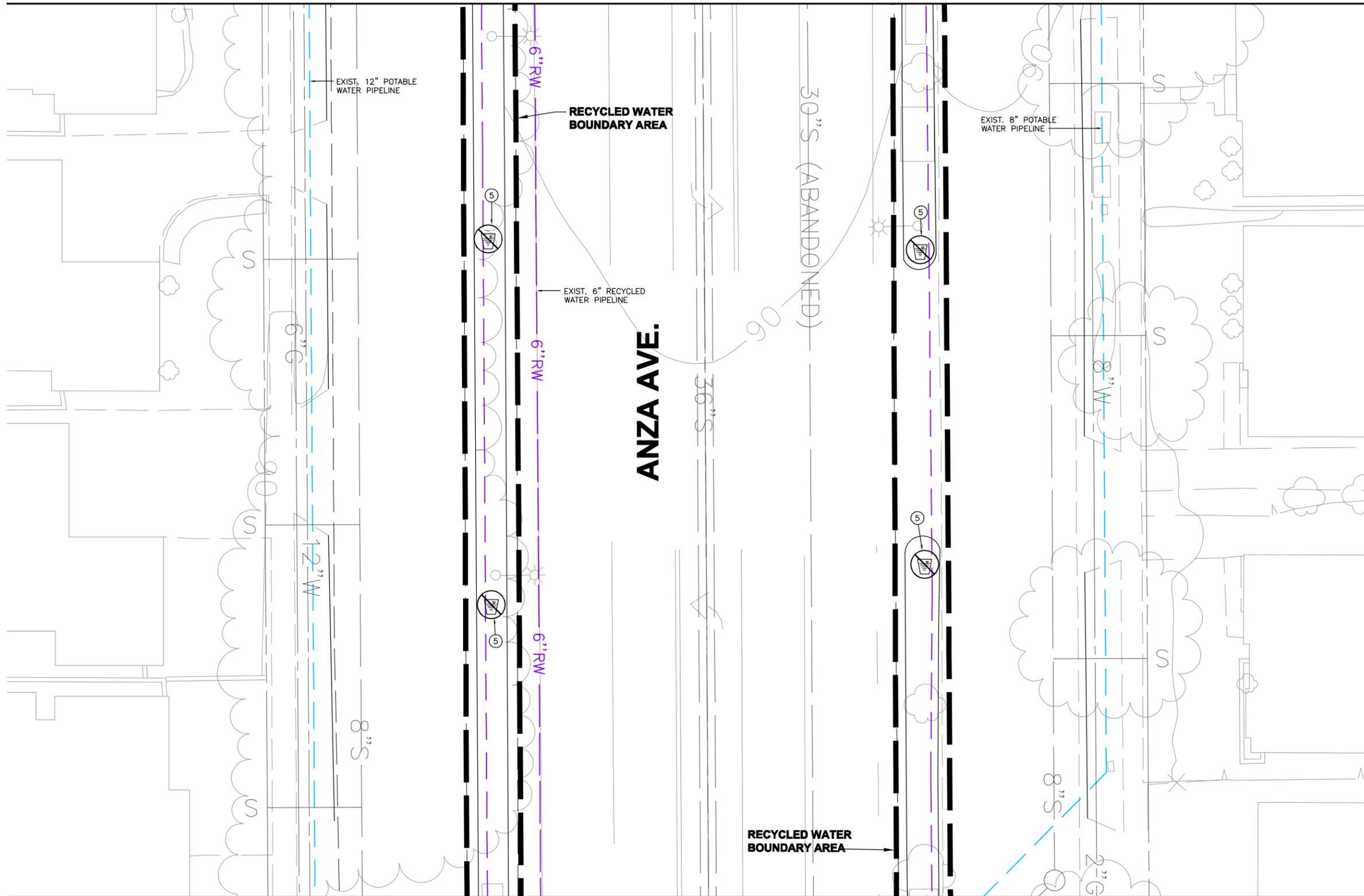
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 12

PROJECT NO.
 3915.0011.00
 DWG. NO. 13 OF 47

MATCHLINE - SEE DWG. NO. 13



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 15

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DESIGNED BY	CH		
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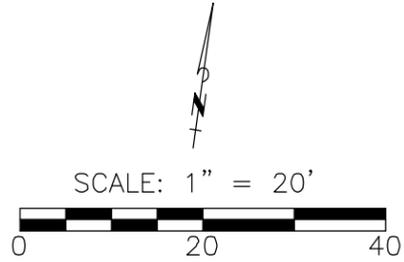
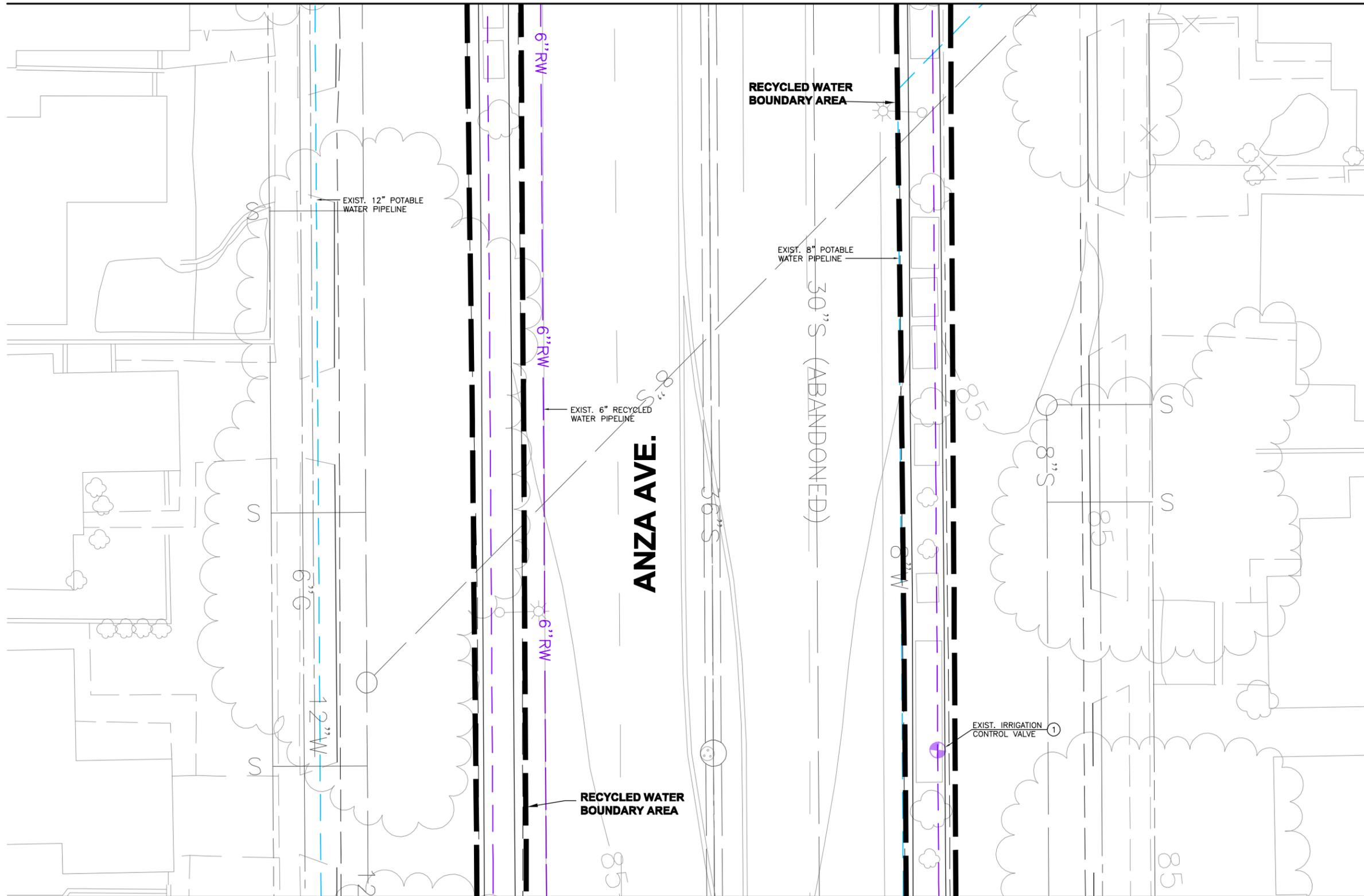
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 13

PROJECT NO.
 3915.0011.00

DWG. NO. 14 OF 47

MATCHLINE - SEE DWG. NO. 14



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES, ABOVE GROUND CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 16

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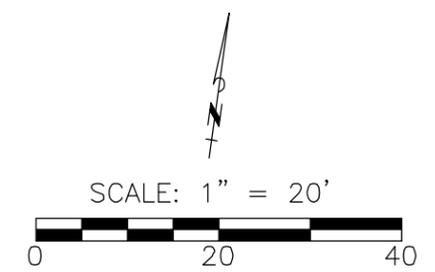
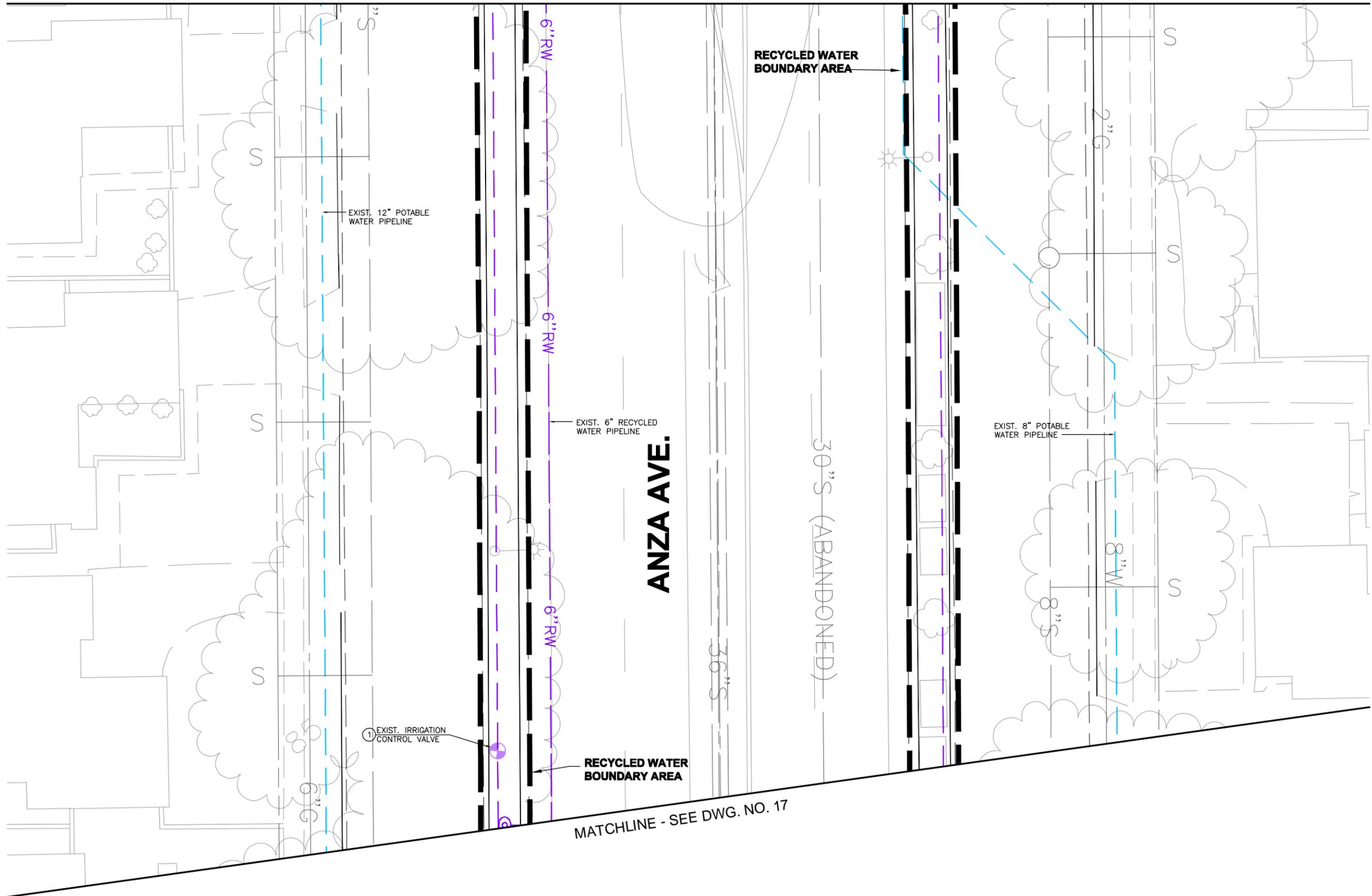
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 14

PROJECT NO.
 3915.0011.00
 DWG. NO. 15 OF 47

MATCHLINE - SEE DWG. NO. 15

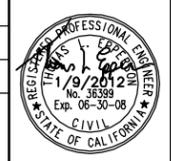


SIGNING AND TAGGING NOTES:

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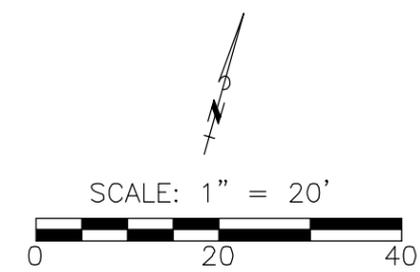
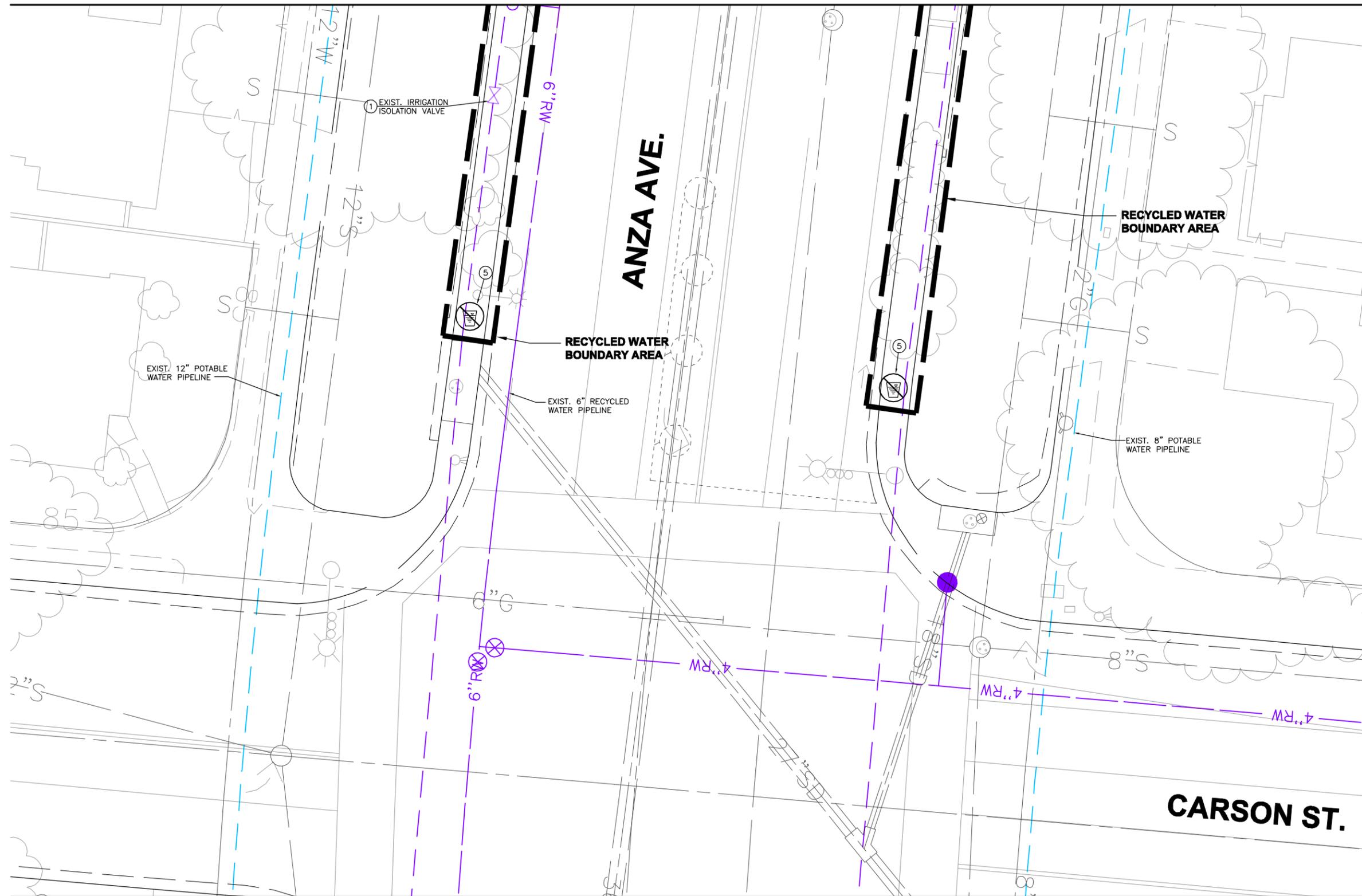
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 15

PROJECT NO.	3915.0011.00
DWG. NO.	16 OF 47

MATCHLINE - SEE DWG. NO. 16



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 18

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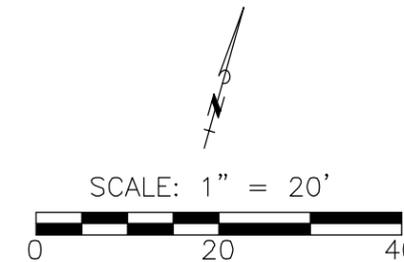
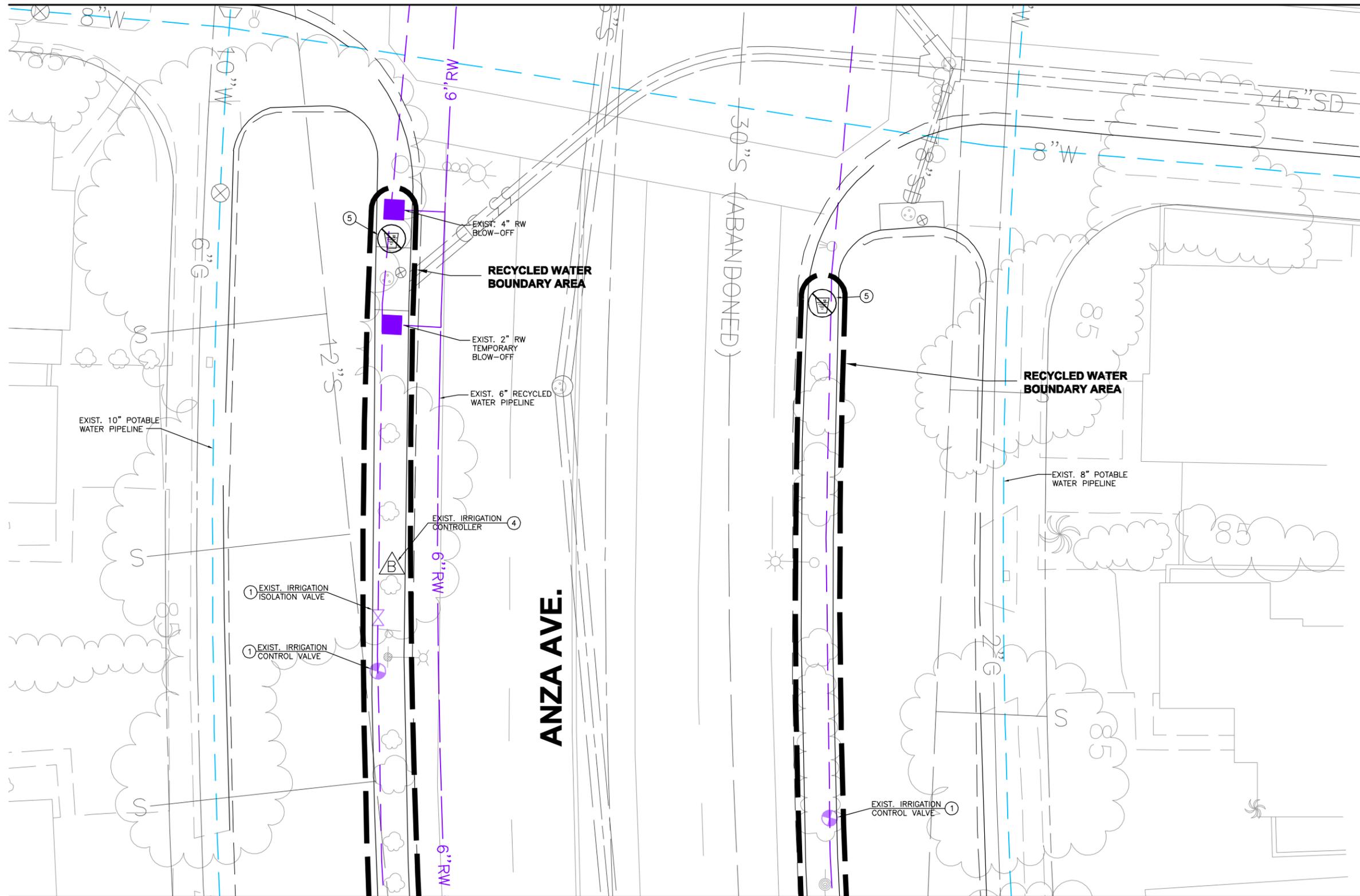
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 16

PROJECT NO.
 3915.0011.00
 DWG. NO. 17 OF 47

MATCHLINE - SEE DWG. NO. 17



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 19

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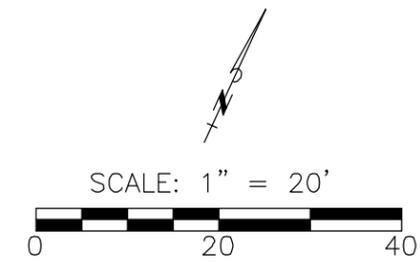
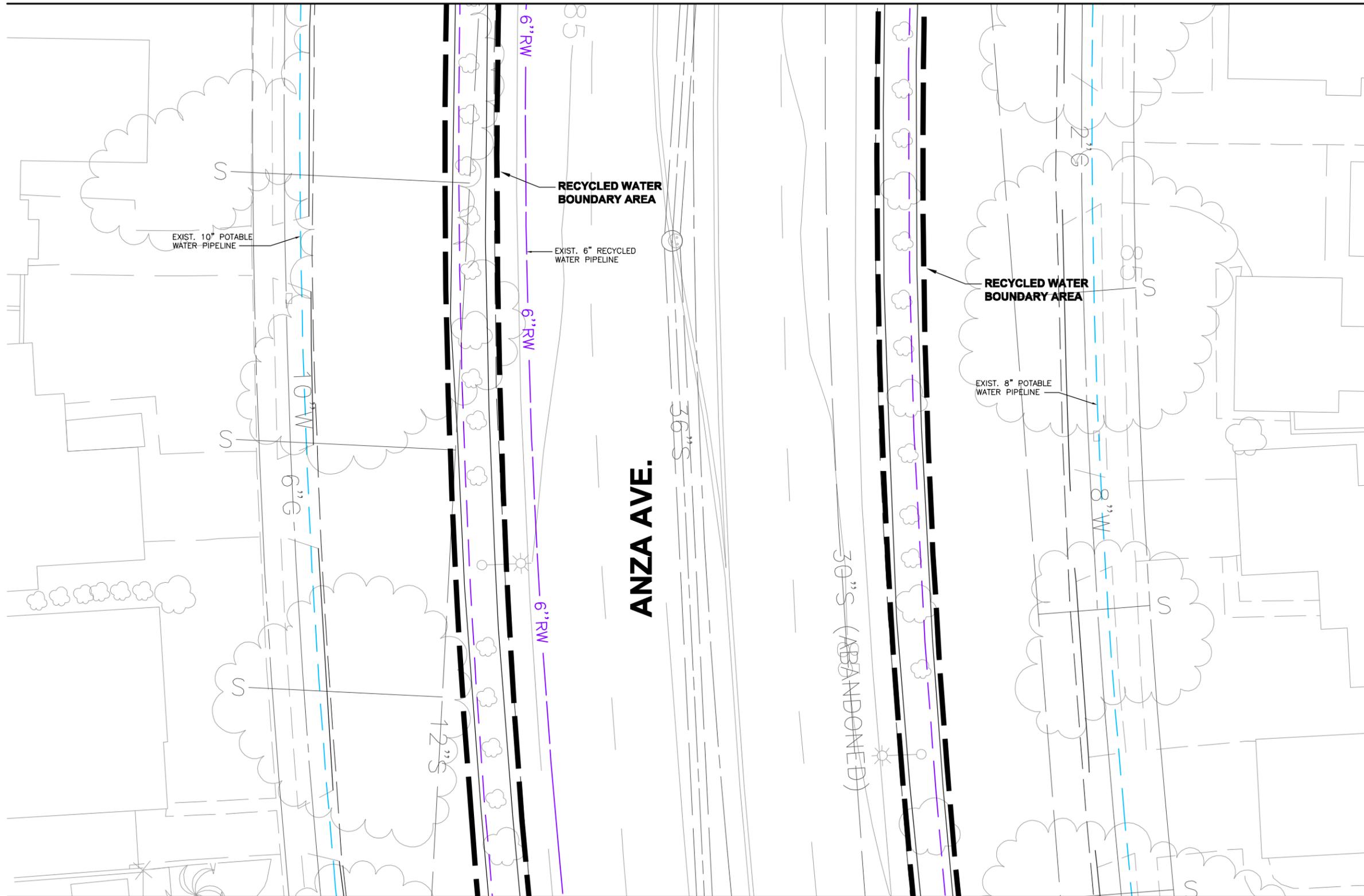
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 17**

PROJECT NO.
3915.0011.00
 DWG. NO. **18** OF **47**

MATCHLINE - SEE DWG. NO. 19



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 21

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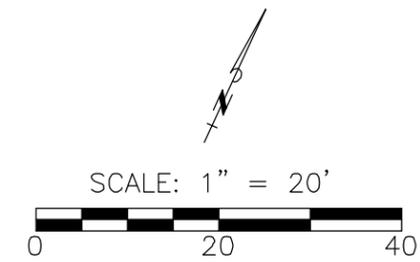
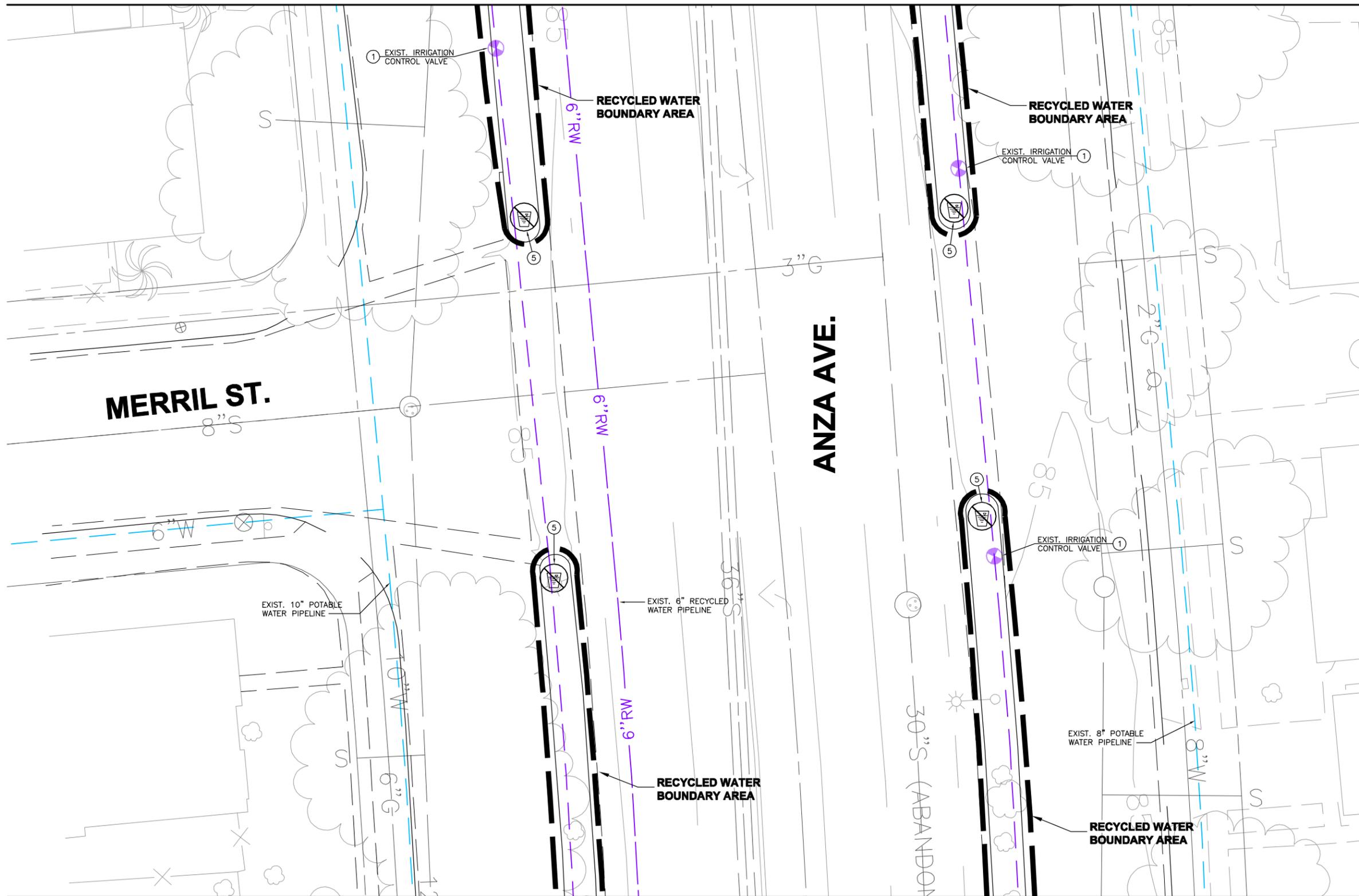
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 19**

PROJECT NO.
3915.0011.00

DWG. NO. 20 OF 47

MATCHLINE - SEE DWG. NO. 20



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 22

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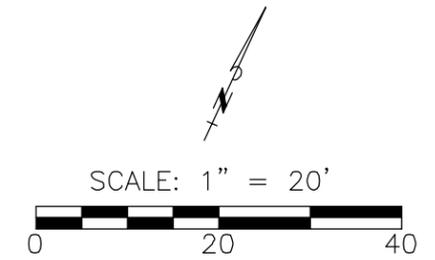
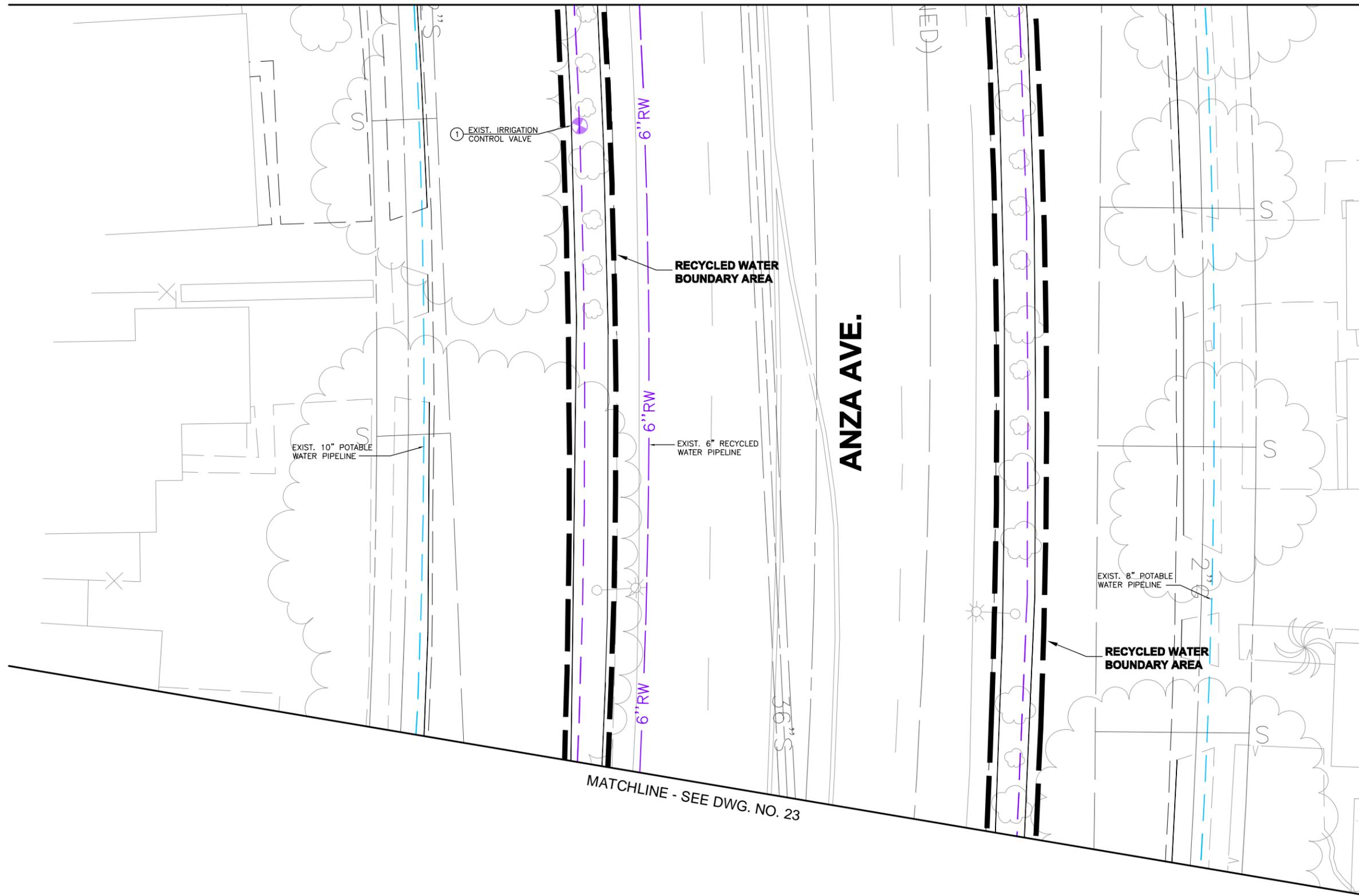
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 20

PROJECT NO.
 3915.0011.00
 DWG. NO. 21 OF 47

MATCHLINE - SEE DWG. NO. 21



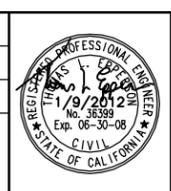
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MATCHLINE - SEE DWG. NO. 23

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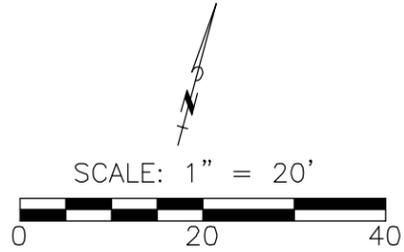
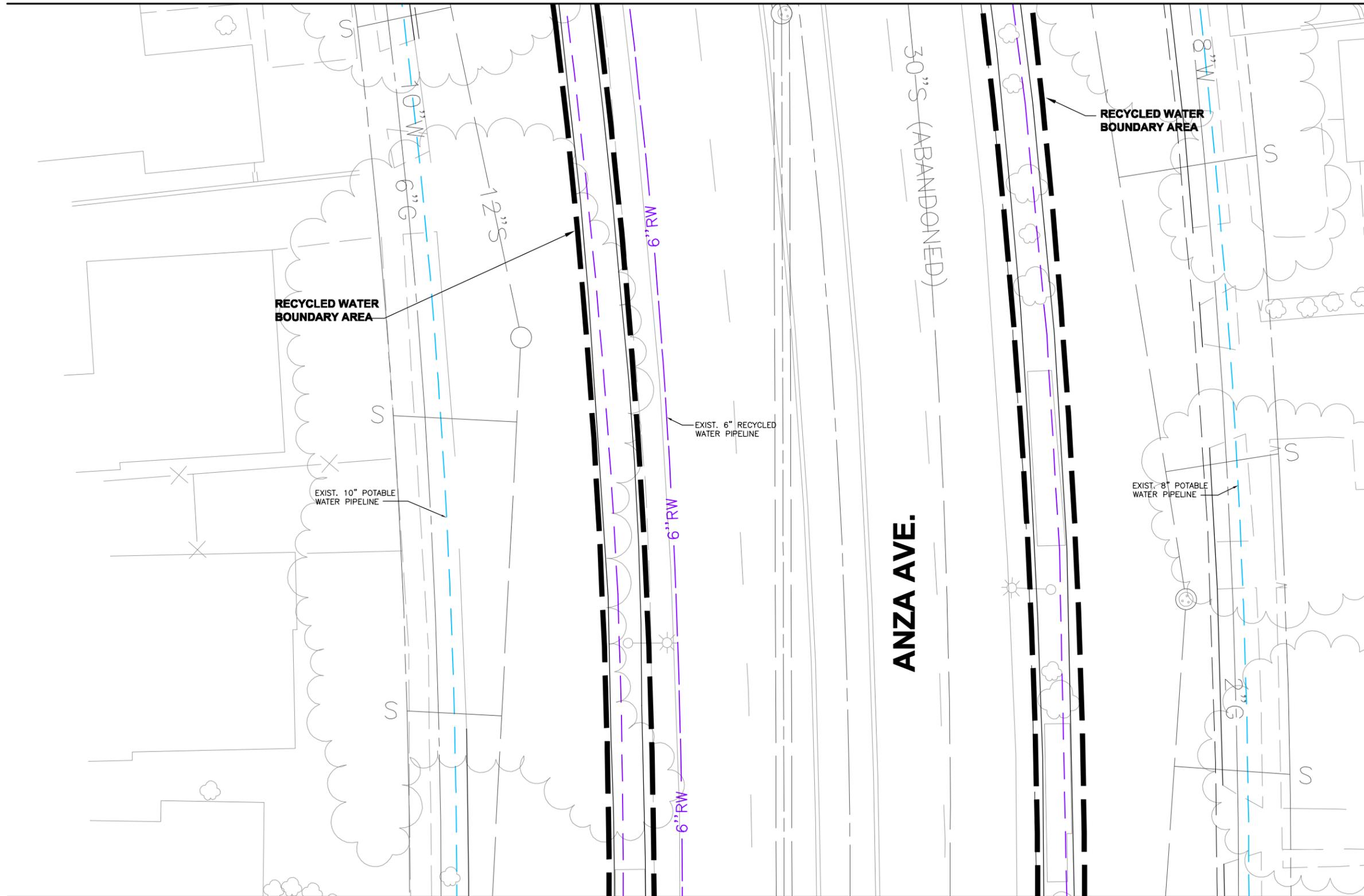
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 21**

PROJECT NO.
3915.0011.00

DWG. NO. 22 OF 47

MATCHLINE - SEE DWG. NO. 22



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
- ② REMOVE HOSEBIB AND CAP BELOW GROUND.
- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 24

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DATE	JANUARY 2012		
FILENAME	SIPL01		
DESIGNED BY	CH		
DRAWN BY	KMB		
CHECKED BY	MWB		
ENGR	DATE	APPD	DATE
REV	DESCRIPTION		



PLANS PREPARED BY:
TETRA TECH, INC.
 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
 (949) 809-5000
 (949) 809-5010 FAX

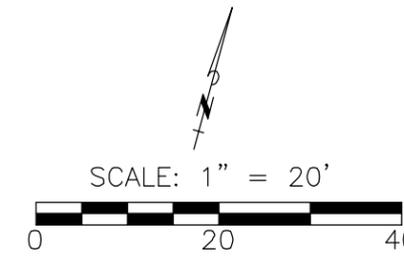
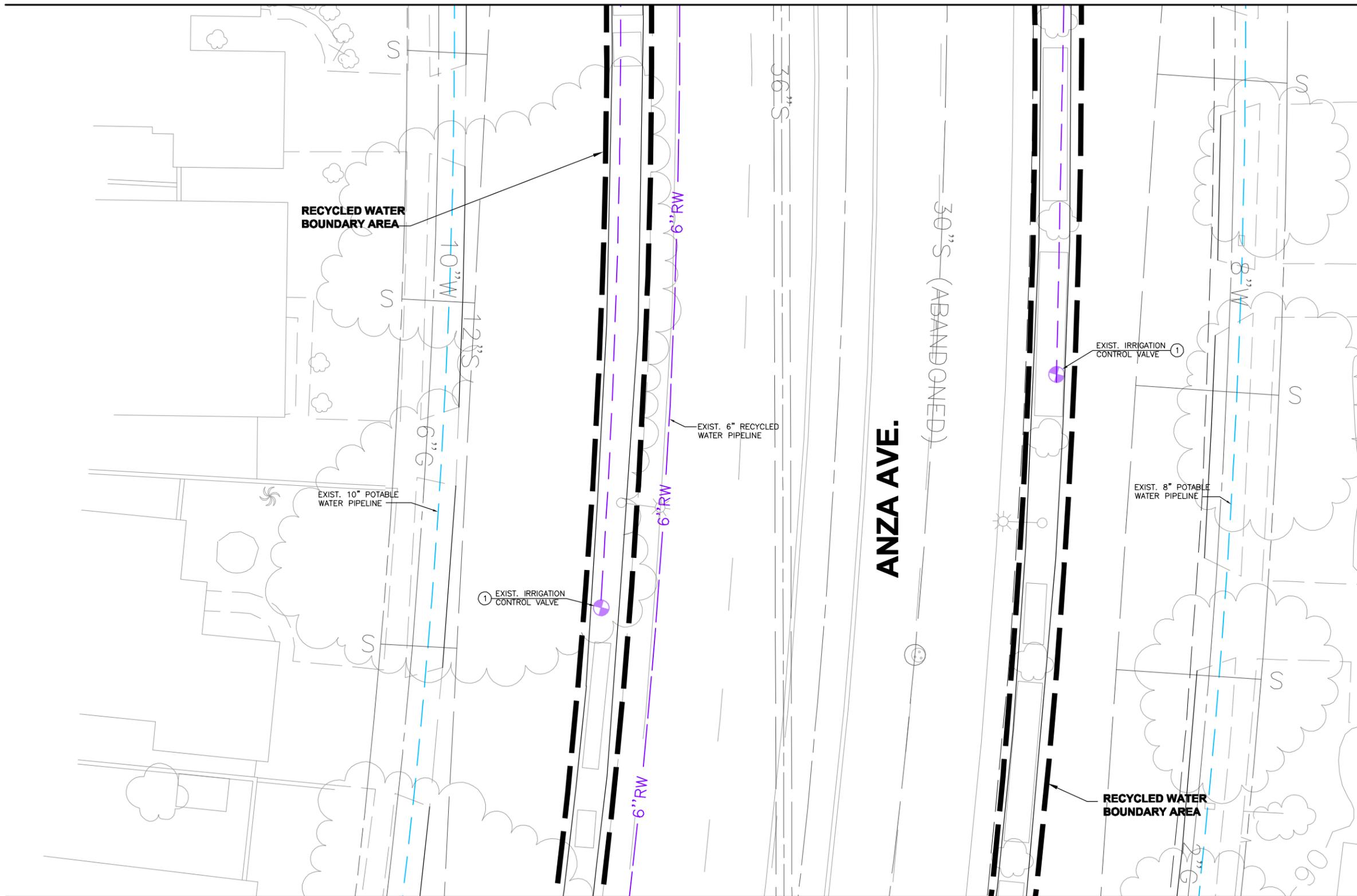
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 22

PROJECT NO.
 3915.0011.00

DWG. NO. **23** OF **47**

MATCHLINE - SEE DWG. NO. 23



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
- ② REMOVE HOSEBIB AND CAP BELOW GROUND.
- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 25

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REV	DESCRIPTION		



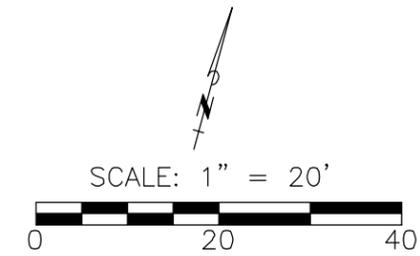
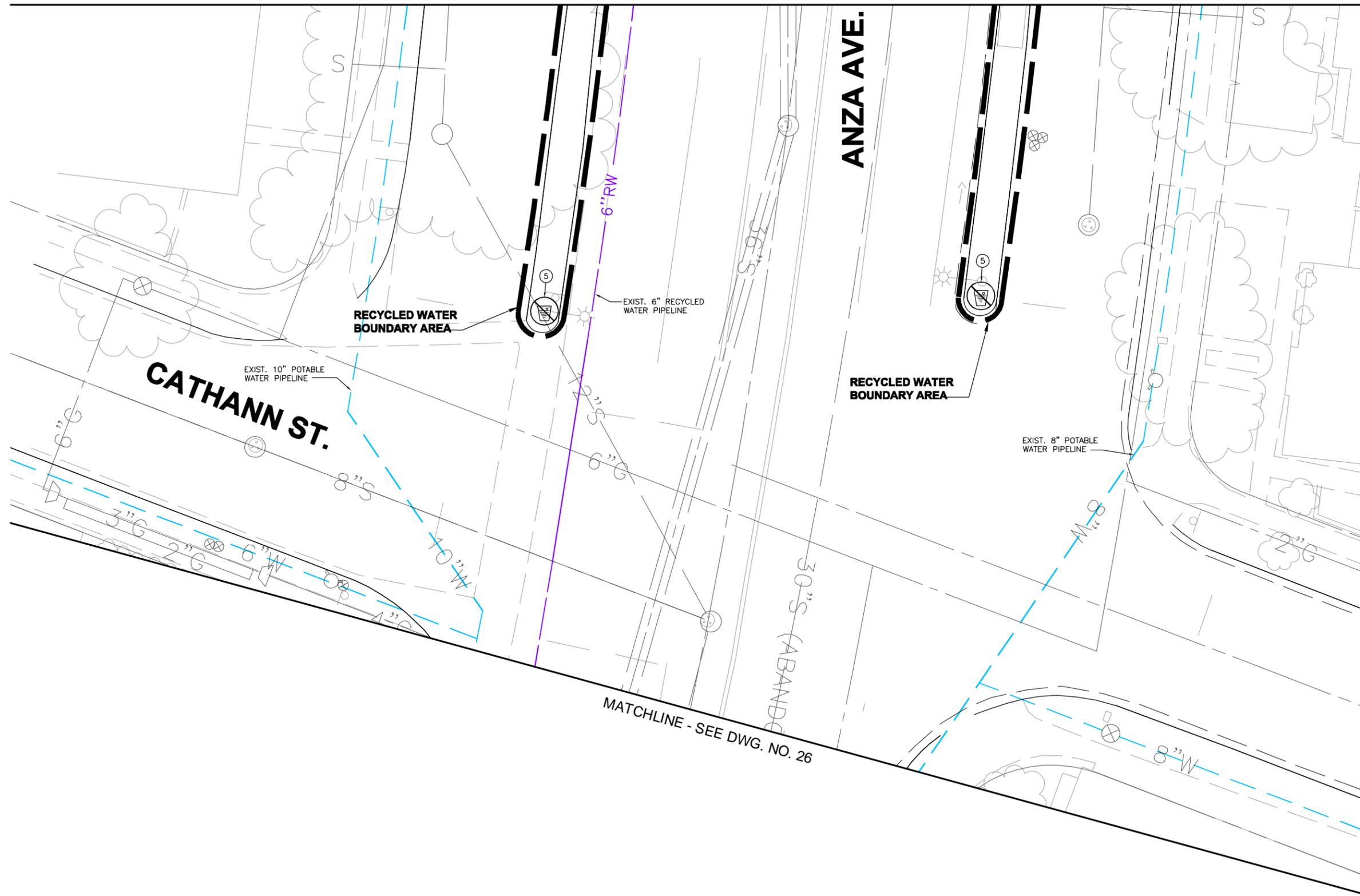
PLANS PREPARED BY:
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 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
 (949) 809-5000
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 23

PROJECT NO.
 3915.0011.00
 DWG. NO. **24** OF **47**

MATCHLINE - SEE DWG. NO. 24



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
- ② REMOVE HOSEBIB AND CAP BELOW GROUND.
- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 26

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DATE	JANUARY 2012		
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REV	DESCRIPTION		



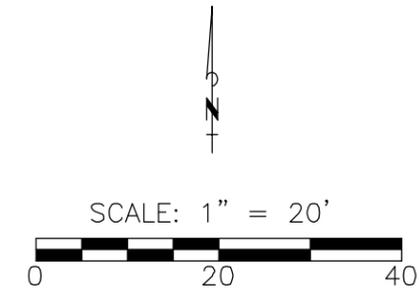
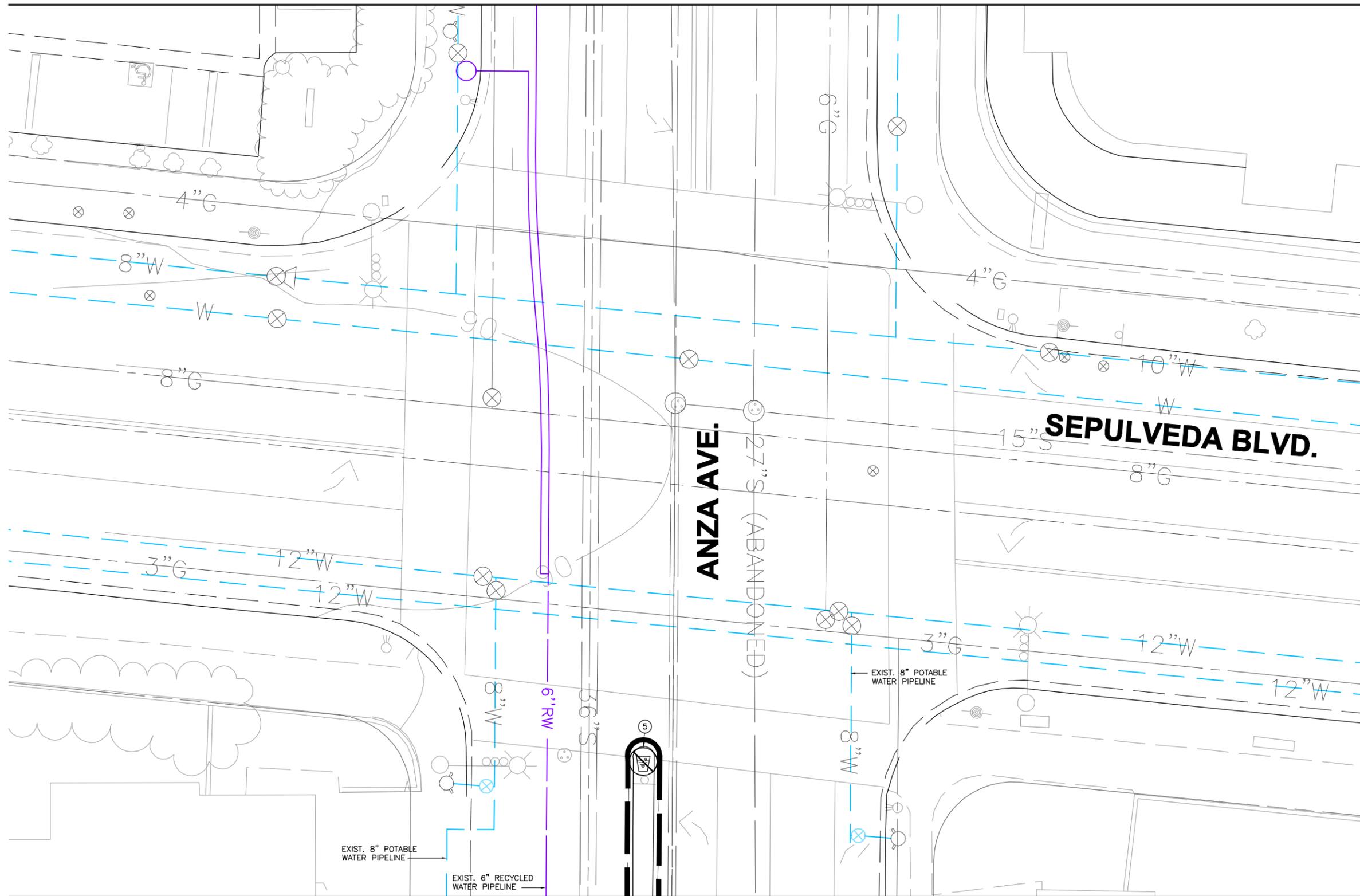
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 24**

PROJECT NO.
3915.0011.00
 DWG. NO. **25** OF **47**

MATCHLINE - SEE DWG. NO. 26



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
 - ② REMOVE HOSEBIB AND CAP BELOW GROUND.
 - ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
 - ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
 - ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 28

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DATE	JANUARY 2012		
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REV	DESCRIPTION		



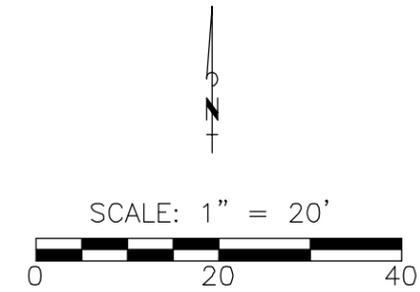
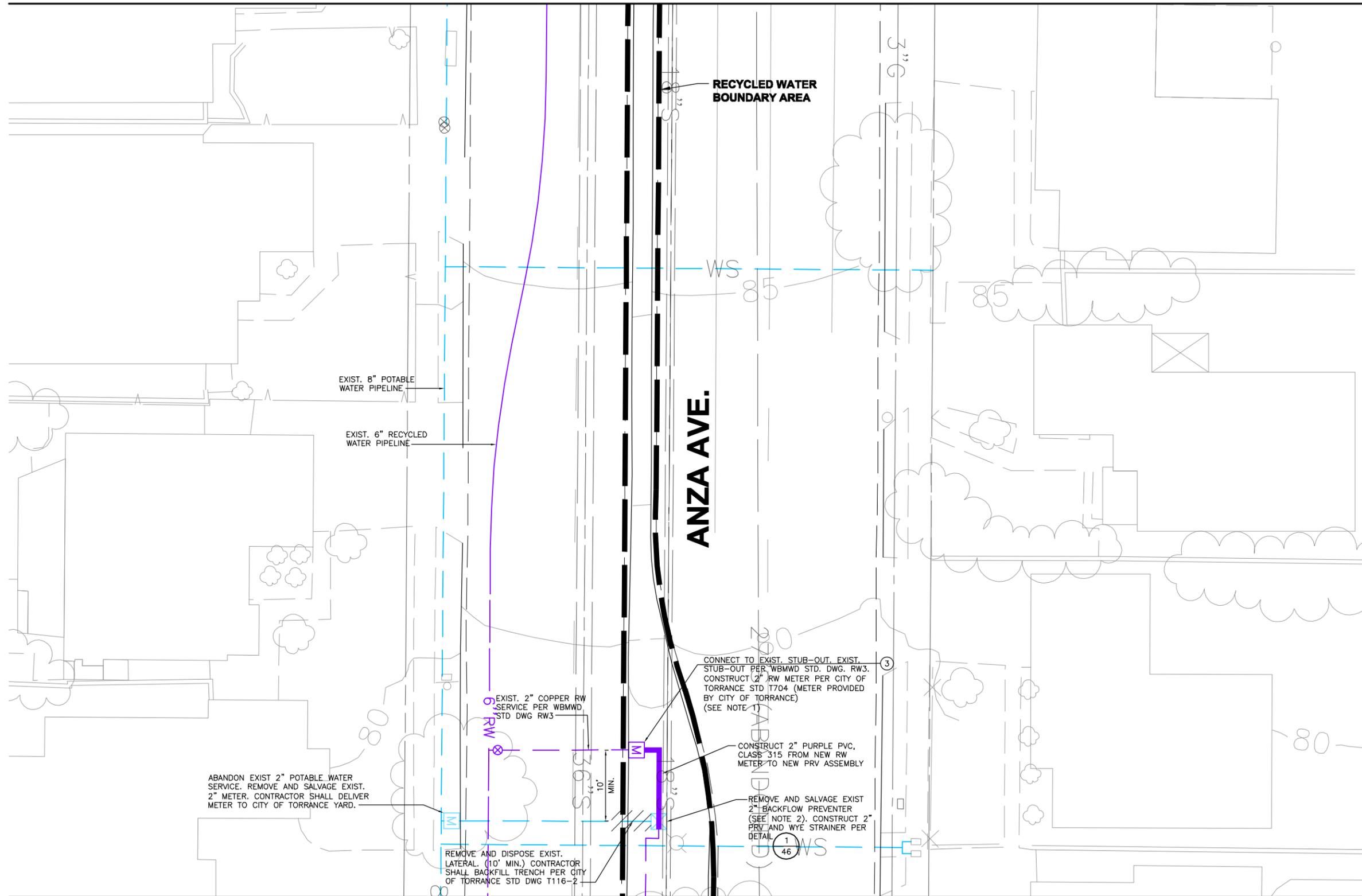
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 26

PROJECT NO.
 3915.0011.00
 DWG. NO. 27 OF 47

MATCHLINE - SEE DWG. NO. 27



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
- ② REMOVE HOSEBIB AND CAP BELOW GROUND.
- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
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NOTES:

1. RECYCLED WATER METER AND BOX TO BE PROVIDED BY THE CITY. FINAL LOCATION OF METER SHALL BE DETERMINED IN THE FIELD BY THE CITY.
2. CONTRACTOR SHALL COORDINATE AND RETURN THE EXISTING BACKFLOW PREVENTER TO THE CITY OF TORRANCE YARD LOCATED AT 20500 MADRONA AVE. TORRANCE, CA 90503.

MATCHLINE - SEE DWG. NO. 29

P:\P03915\001\1\Cadd\ANZA-MEDIAN\SIPL02.dwg 01/09/2012 09:00

SCALE	1" = 20'				
DATE	JANUARY 2012				
FILENAME	SIPL01				
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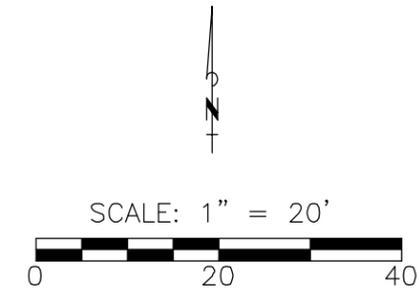
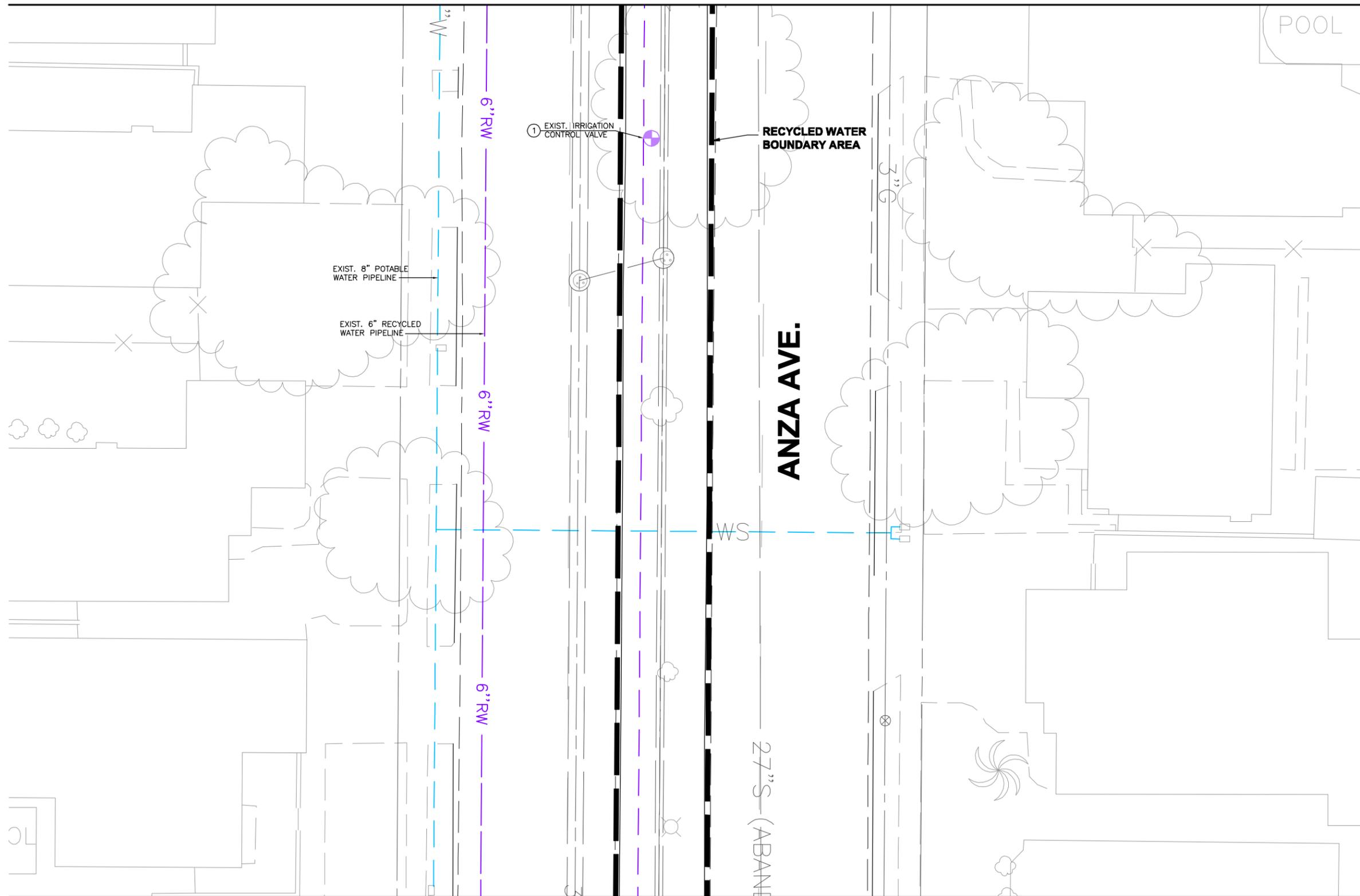
PLANS PREPARED BY:
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 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 27**

PROJECT NO.
3915.0011.00
 DWG. NO. **28** OF **47**

MATCHLINE - SEE DWG. NO. 28



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
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- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 30

P:\P03915\001\1\Cadd\ANZA-MEDIAN\SIPL02.dwg 01/09/2012 09:00

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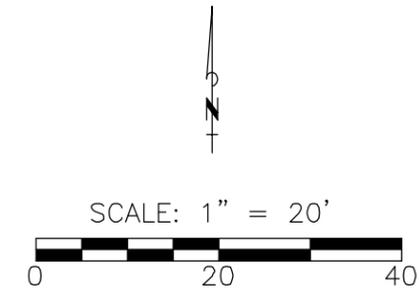
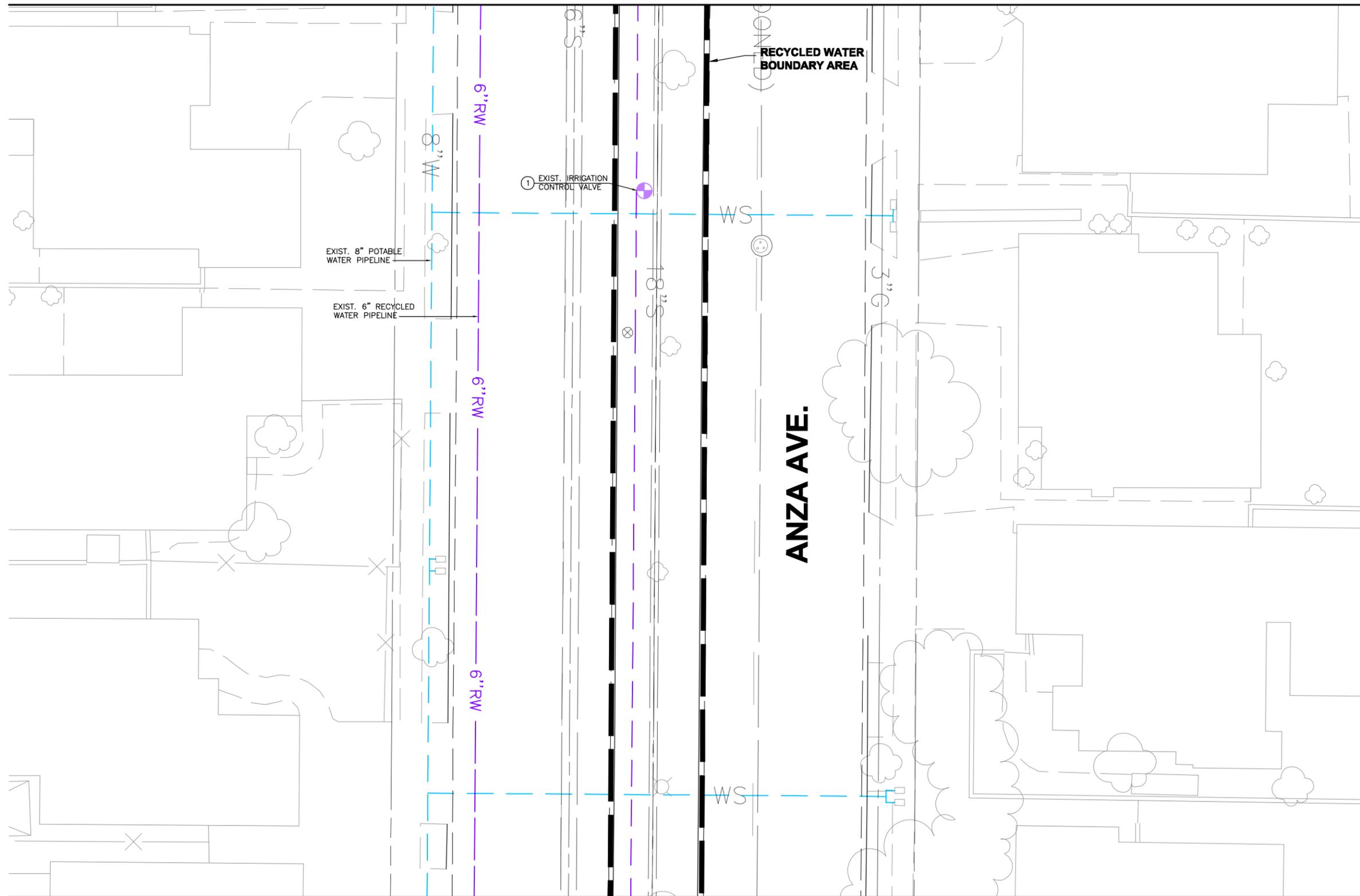
PLANS PREPARED BY:
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 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
 (949) 809-5000
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 28

PROJECT NO.
 3915.0011.00
 DWG. NO. **29** OF **47**

MATCHLINE - SEE DWG. NO. 29



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 31

P:\P03915\001\1\Cadd\ANZA-MEDIAN\SIPL02.dwg 01/09/2012 09:00

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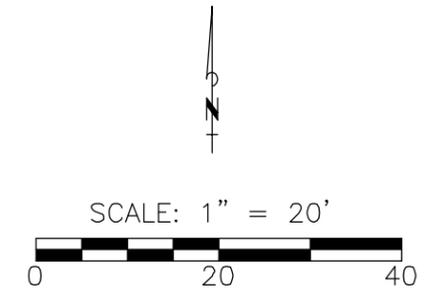
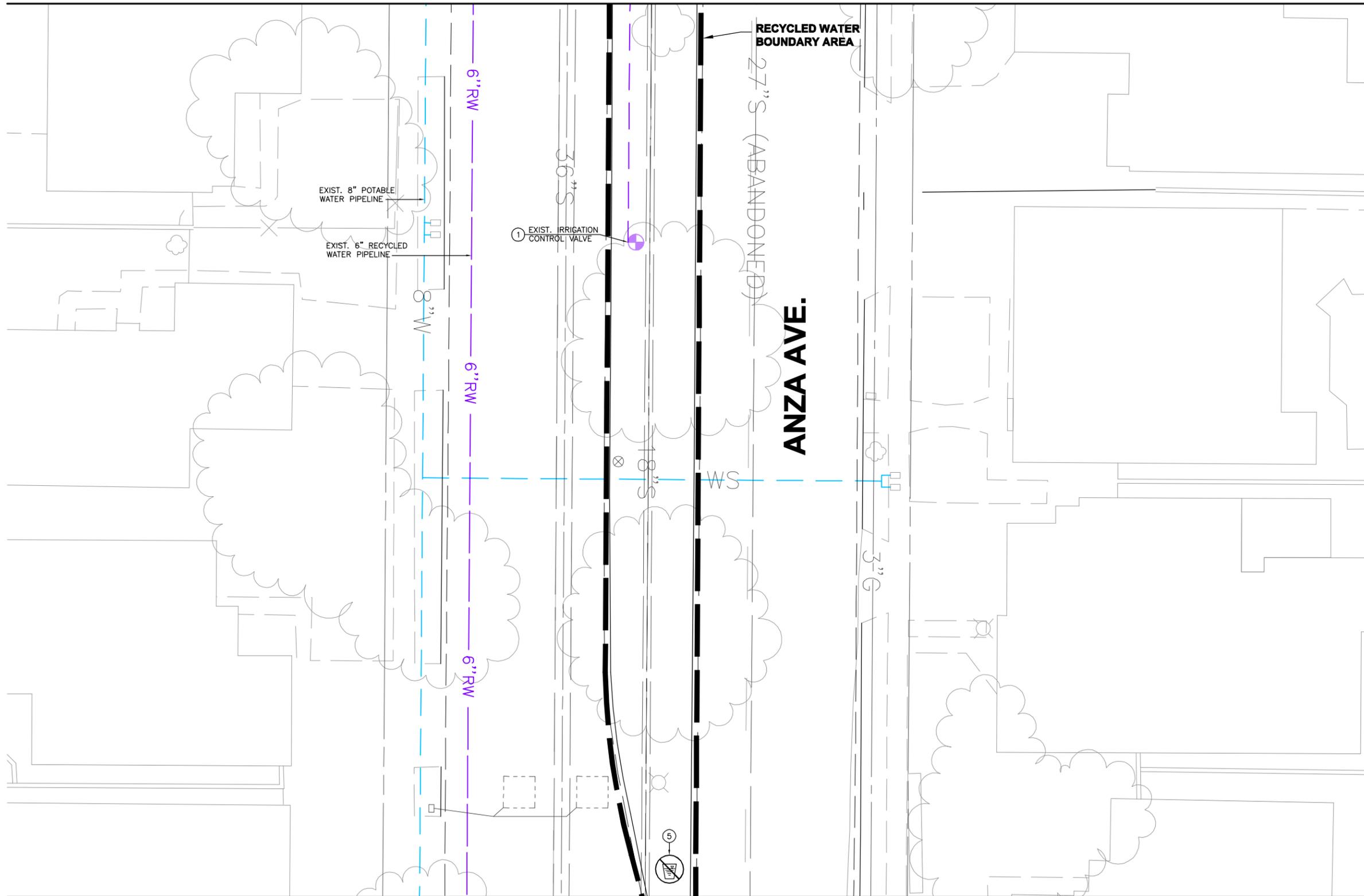
PLANS PREPARED BY:
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 (949) 809-5000
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 29**

PROJECT NO.
3915.0011.00
 DWG. NO. **30** OF **47**

MATCHLINE - SEE DWG. NO. 30



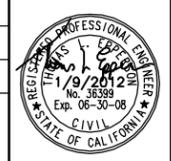
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- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 32

P:\P03915\001\1\Cadd\ANZA-MEDIAN\SIPL03.dwg 01/09/2012 09:00

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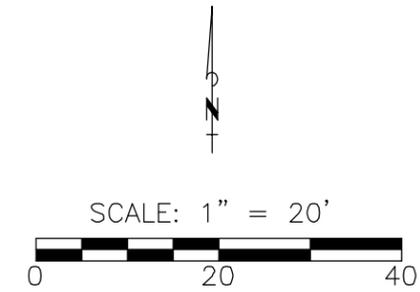
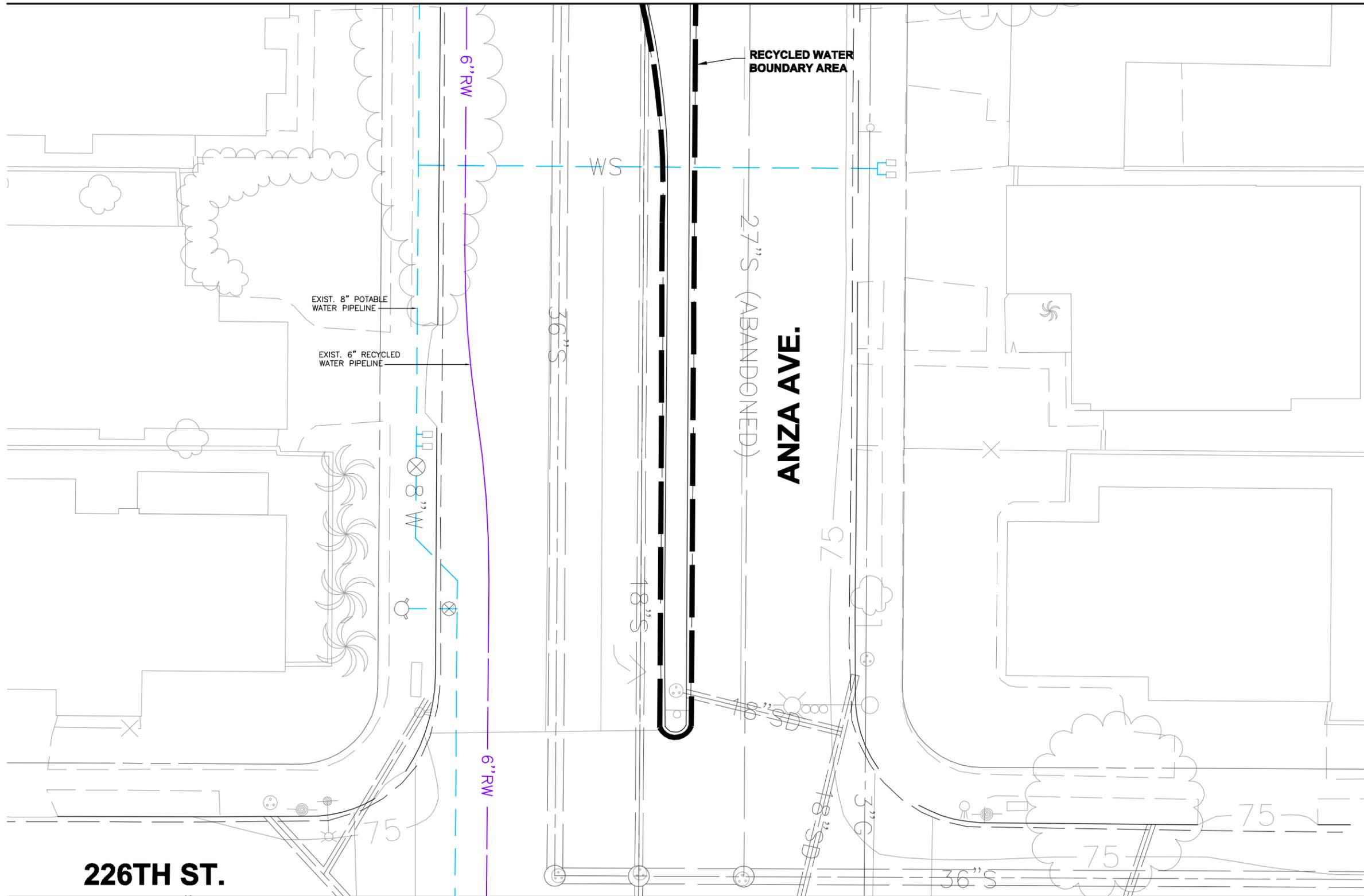
PLANS PREPARED BY:
TETRA TECH, INC.
 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 30**

PROJECT NO.
3915.0011.00
 DWG. NO. **31** OF **47**

MATCHLINE - SEE DWG. NO. 31



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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226TH ST.

MATCHLINE - SEE DWG. NO. 33

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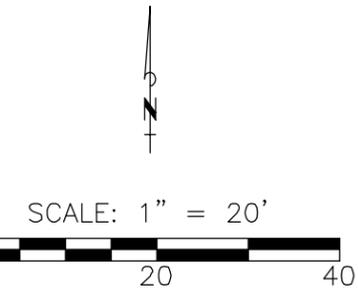
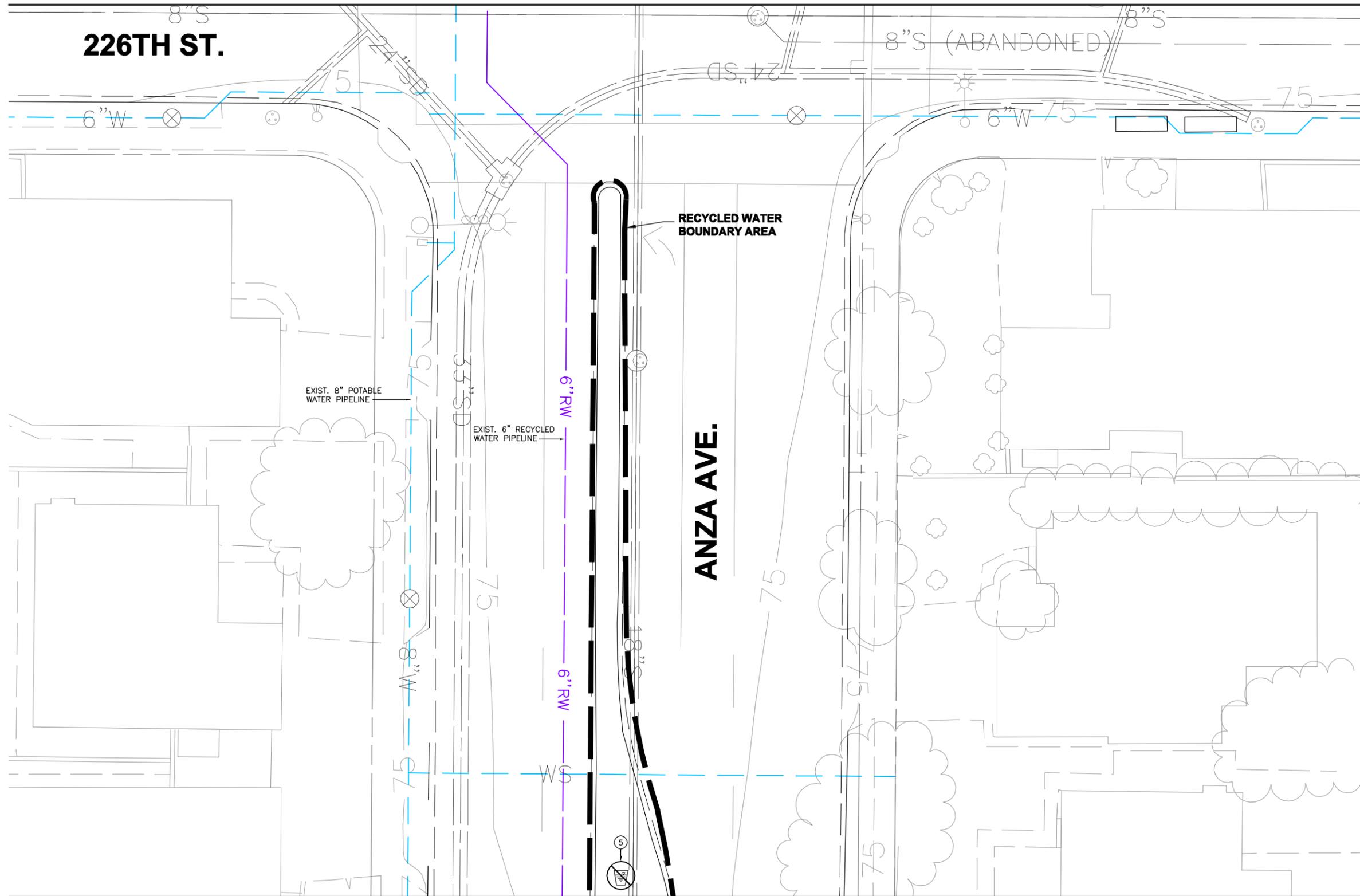
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 31**

PROJECT NO.
3915.0011.00
 DWG. NO. **32** OF **47**

MATCHLINE - SEE DWG. NO. 32



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 34

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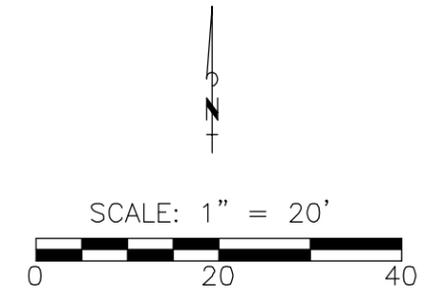
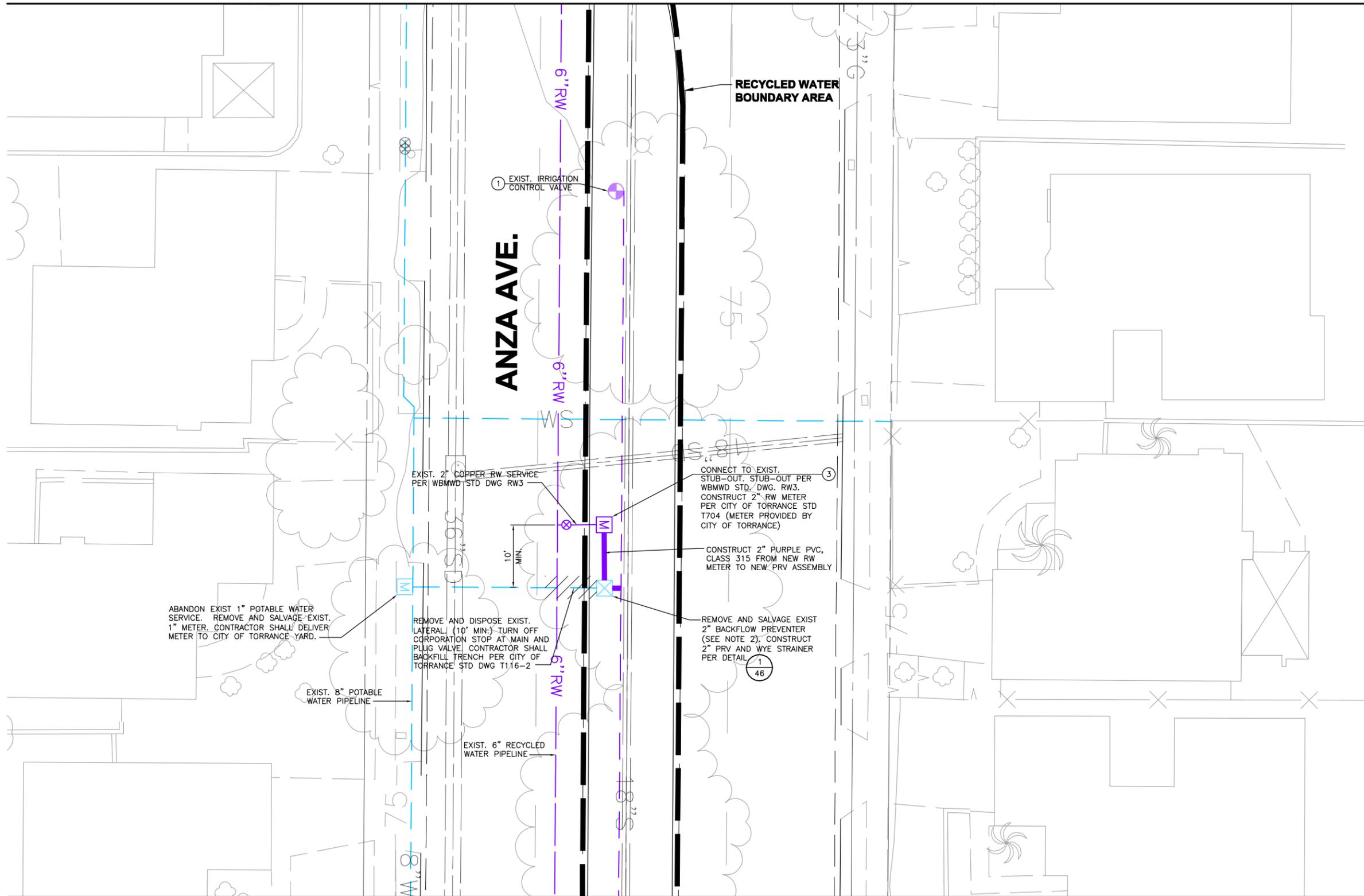
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 32**

PROJECT NO.
3915.0011.00
 DWG. NO. **33** OF **47**

MATCHLINE - SEE DWG. NO. 33



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

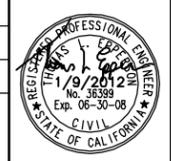
NOTES:

1. RECYCLED WATER METER AND BOX TO BE PROVIDED BY THE CITY. FINAL LOCATION OF METER SHALL BE DETERMINED IN THE FIELD BY THE CITY.
2. CONTRACTOR SHALL COORDINATE AND RETURN THE EXISTING BACKFLOW PREVENTER TO THE CITY OF TORRANCE YARD LOCATED AT 20500 MADRONA AVE. TORRANCE, CA 90503.

MATCHLINE - SEE DWG. NO. 35

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DATE	JANUARY 2012		
FILENAME	SIPL01		
DESIGNED BY	CH		
DRAWN BY	KMB		
CHECKED BY	MWB		
ENGR	DATE	APPD	DATE
REV	DESCRIPTION		



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TETRA TECH, INC.
 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
 (949) 809-5000
 (949) 809-5010 FAX

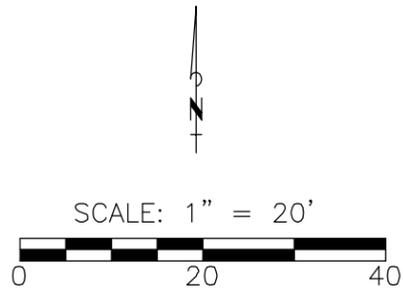
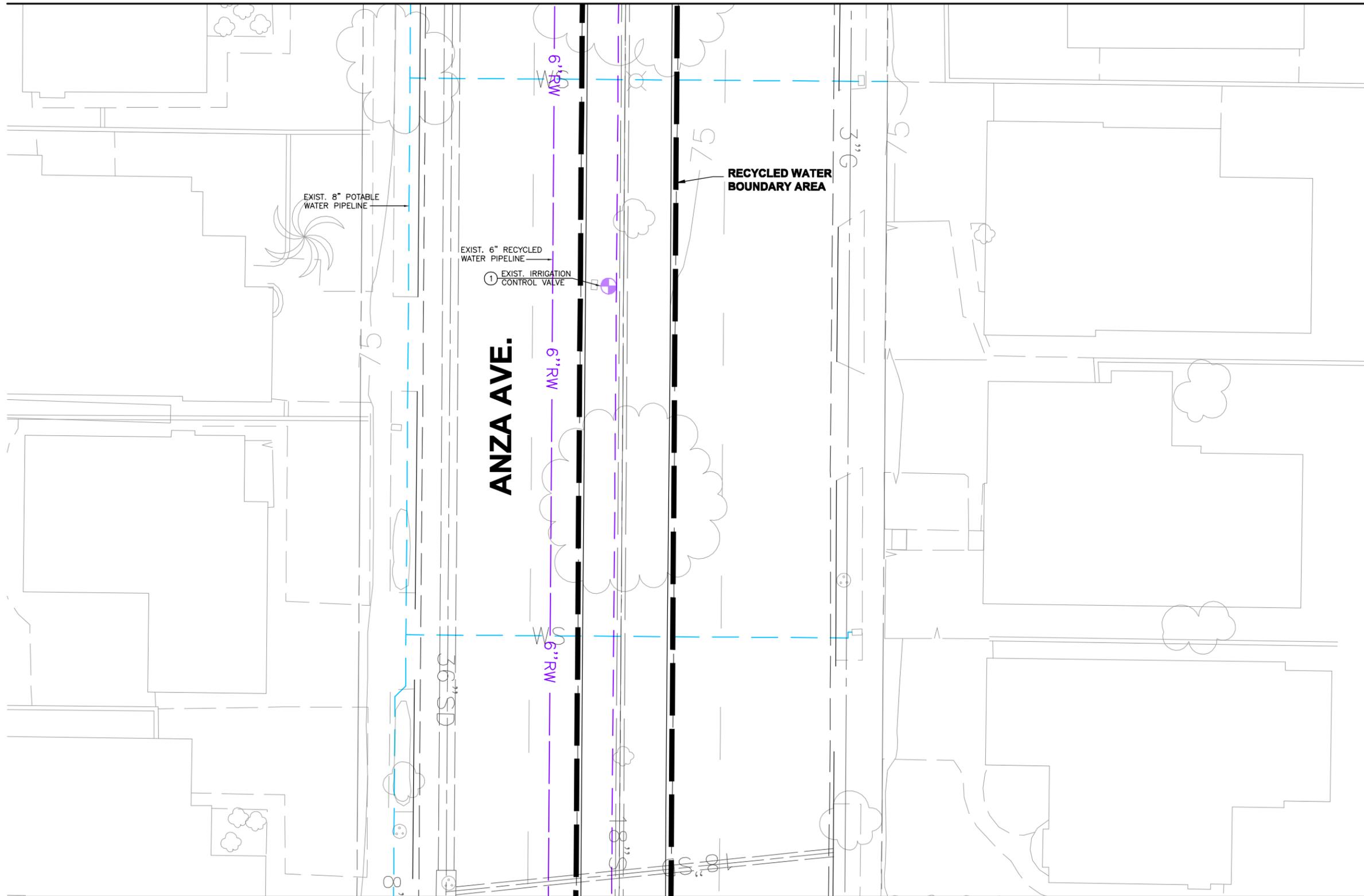
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 33**

PROJECT NO.
3915.0011.00

DWG. NO. **34** OF **47**

MATCHLINE - SEE DWG. NO. 34



- SIGNING AND TAGGING NOTES:**
- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
 - ② REMOVE HOSEBIB AND CAP BELOW GROUND.
 - ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
 - ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
 - ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 36

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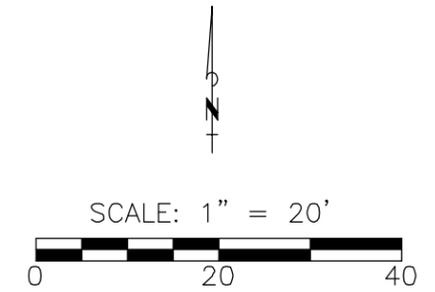
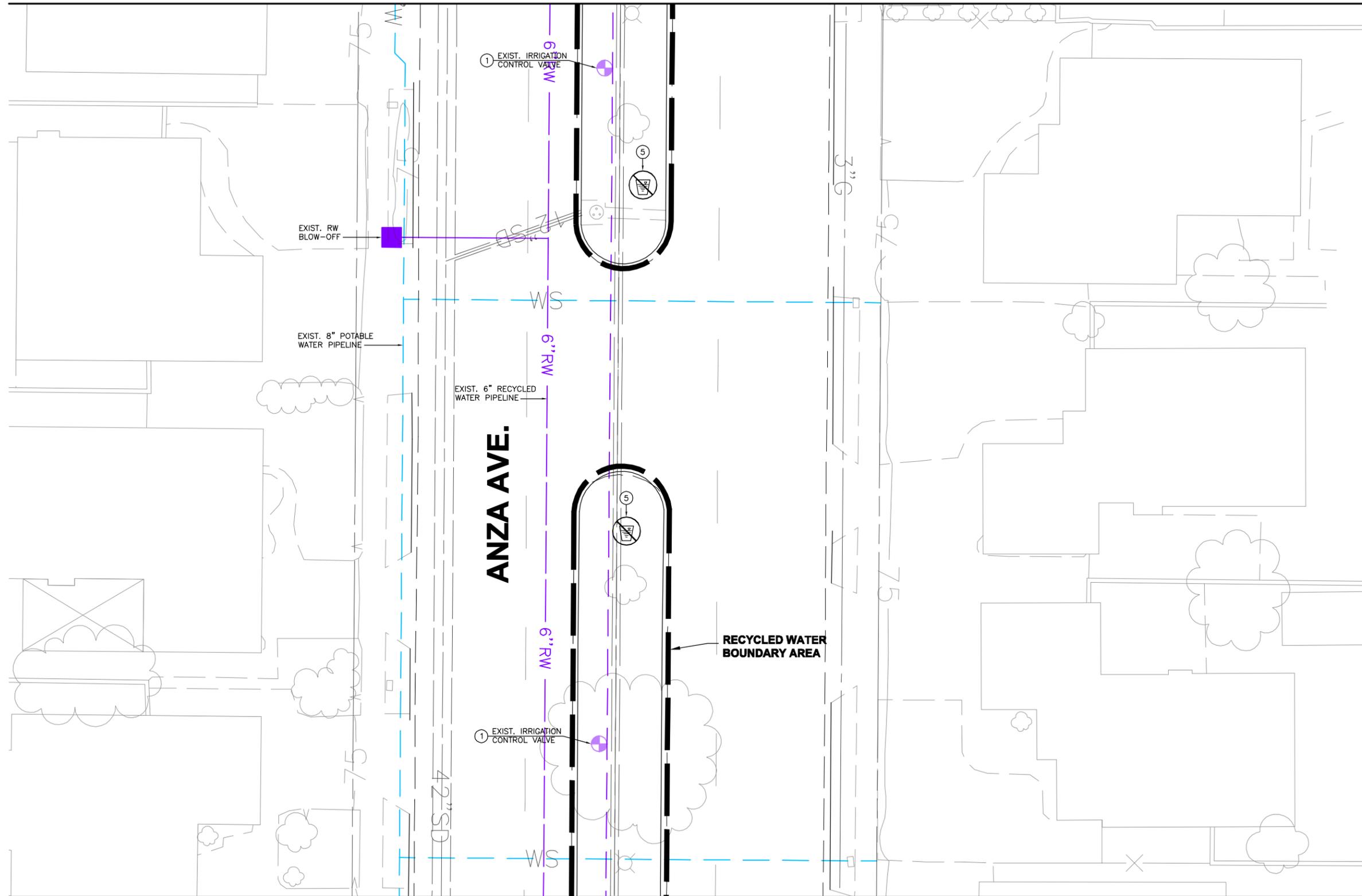
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 34

PROJECT NO.
 3915.0011.00
 DWG. NO. **35** OF **47**

MATCHLINE - SEE DWG. NO. 35



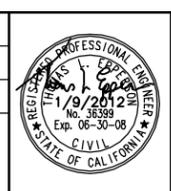
SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 37

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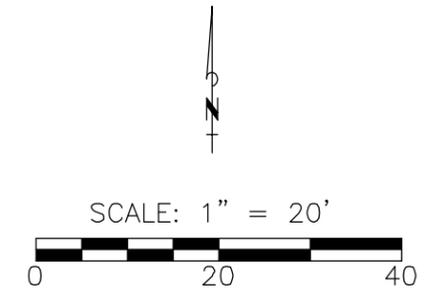
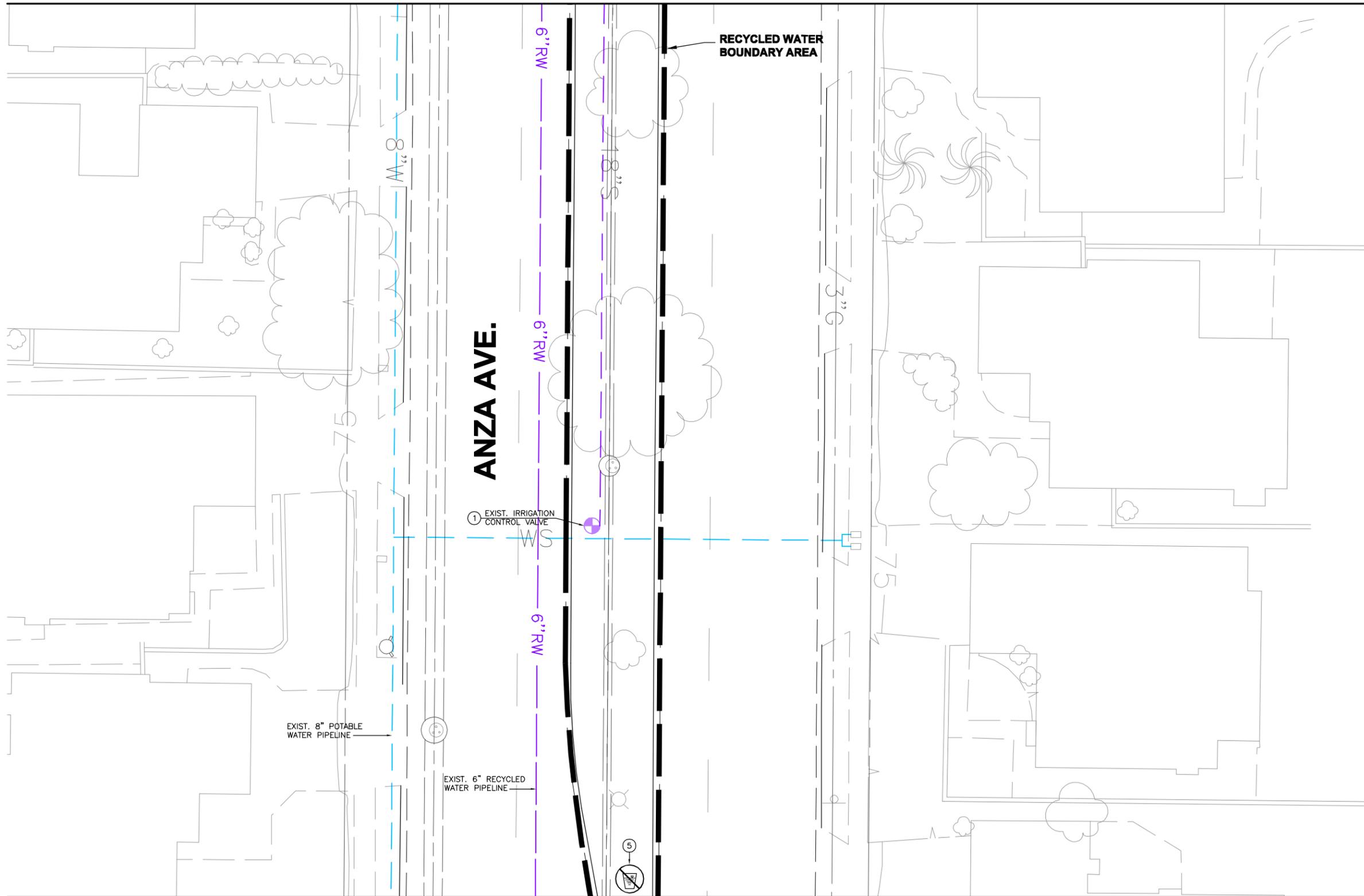
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 35

PROJECT NO.	3915.0011.00
DWG. NO.	36 OF 47

MATCHLINE - SEE DWG. NO. 36



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES, ABOVE GROUND CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

MATCHLINE - SEE DWG. NO. 38

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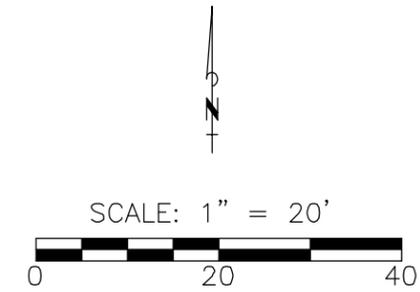
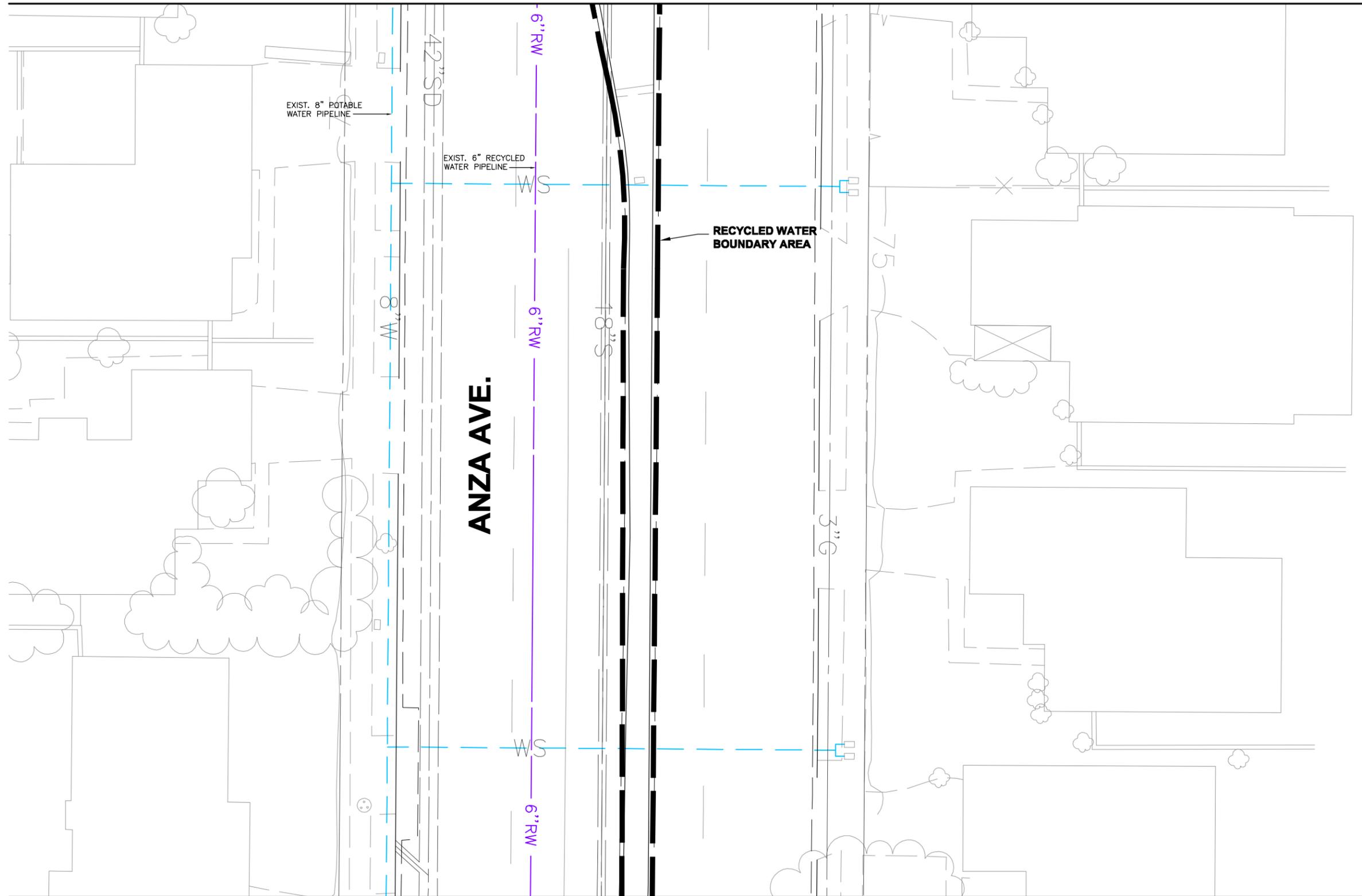
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 36**

PROJECT NO.
3915.0011.00
 DWG. NO. **37** OF **47**

MATCHLINE - SEE DWG. NO. 37



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 39

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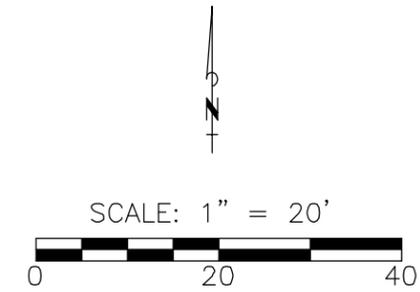
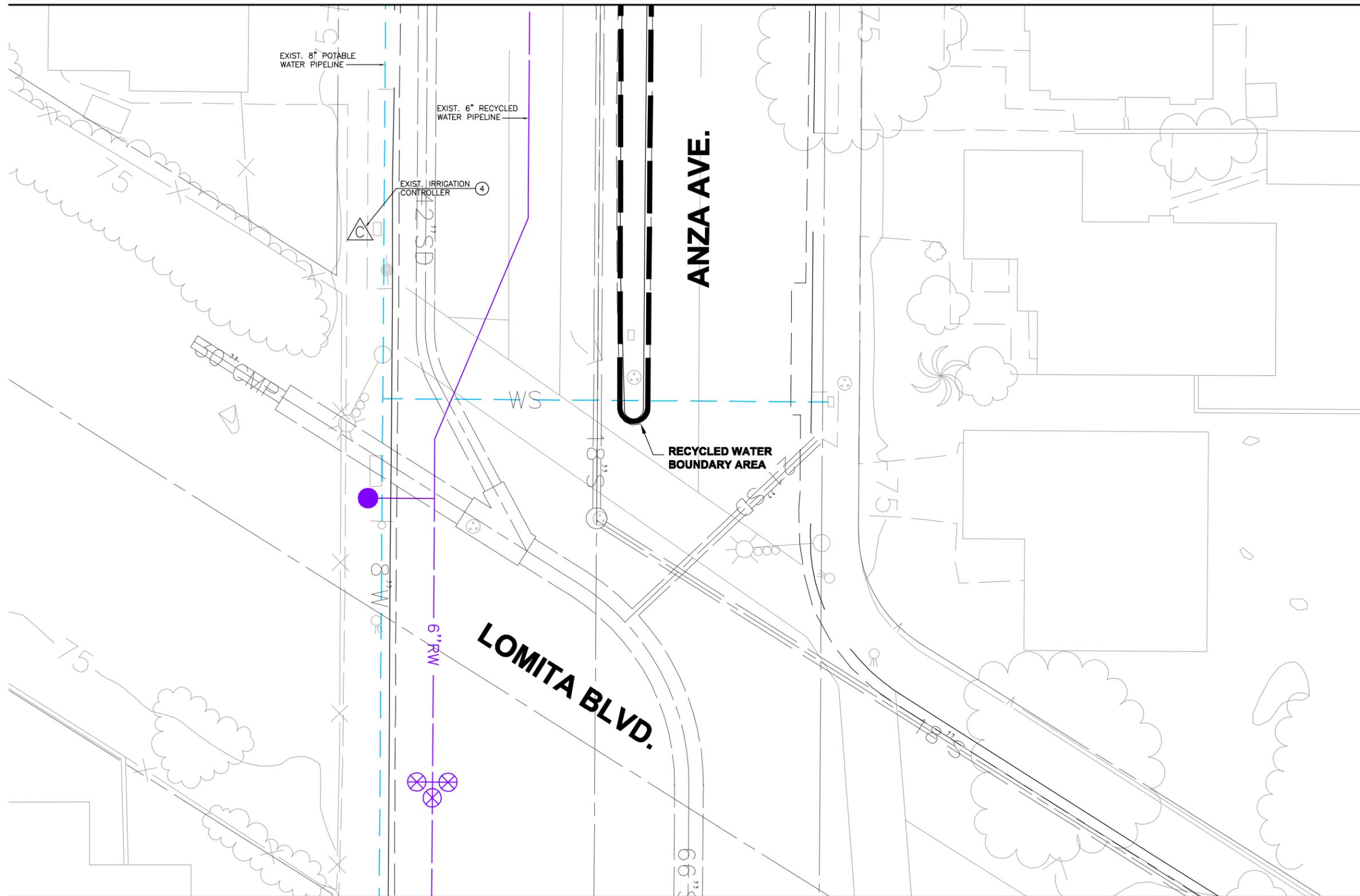
PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 37**

PROJECT NO.
3915.0011.00
 DWG. NO. **38** OF **47**

MATCHLINE - SEE DWG. NO. 38



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 40

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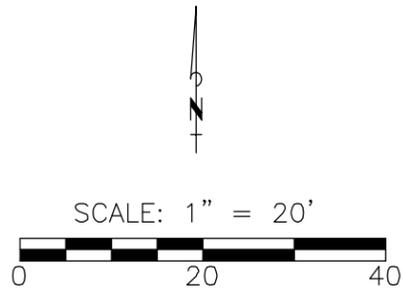
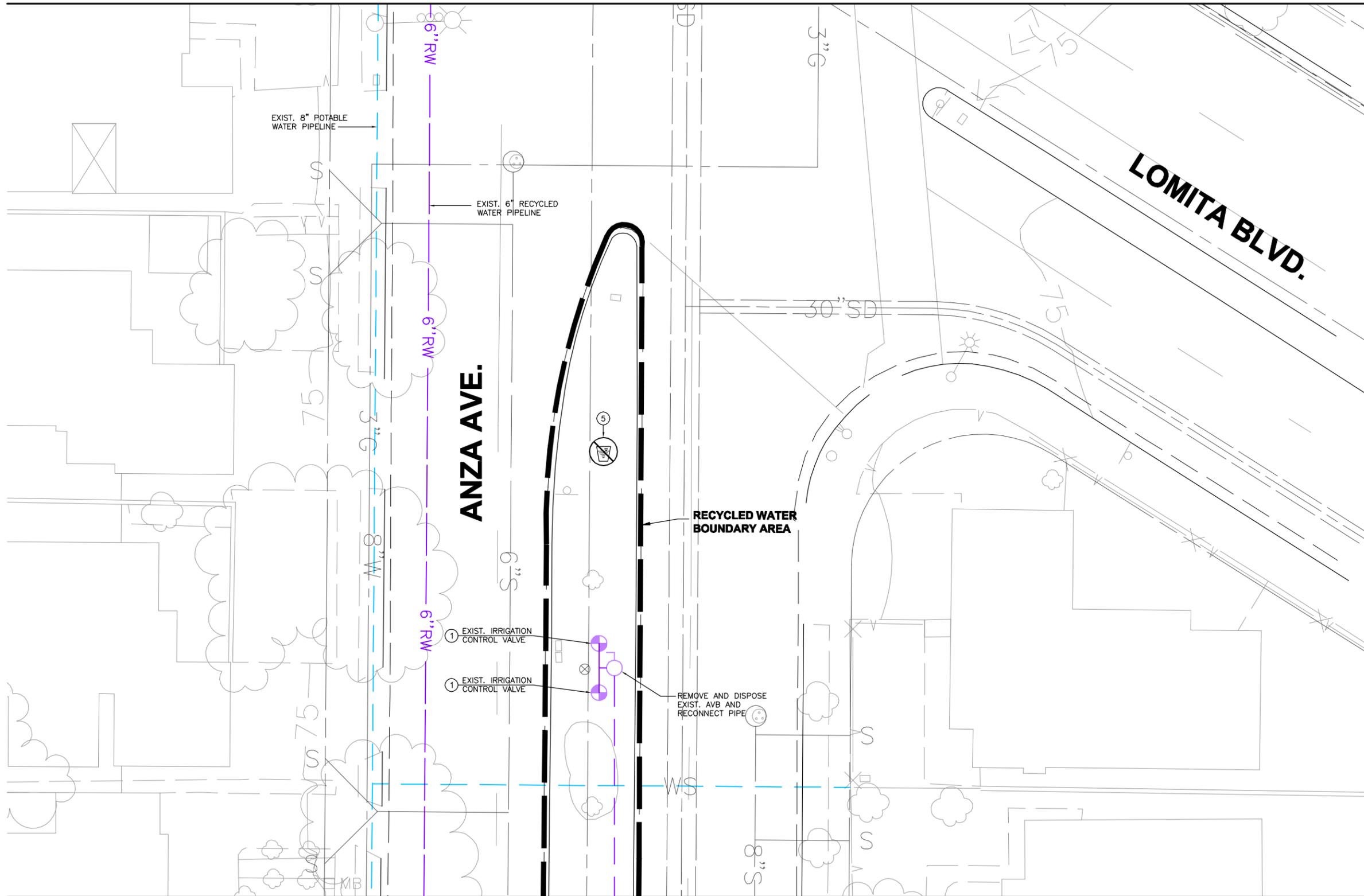
PLANS PREPARED BY:
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 Irvine, California 92614
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 38

PROJECT NO.
 3915.0011.00
 DWG. NO. **39** OF **47**

MATCHLINE - SEE DWG. NO. 39



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
- ② REMOVE HOSEBIB AND CAP BELOW GROUND.
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MATCHLINE - SEE DWG. NO. 41

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DESIGNED BY	CH	DRAWN BY	KMB
CHECKED BY	MWB		
REV	DESCRIPTION	ENGR	DATE APPD DATE



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 Irvine, California 92614
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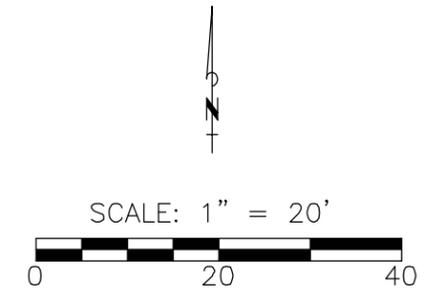
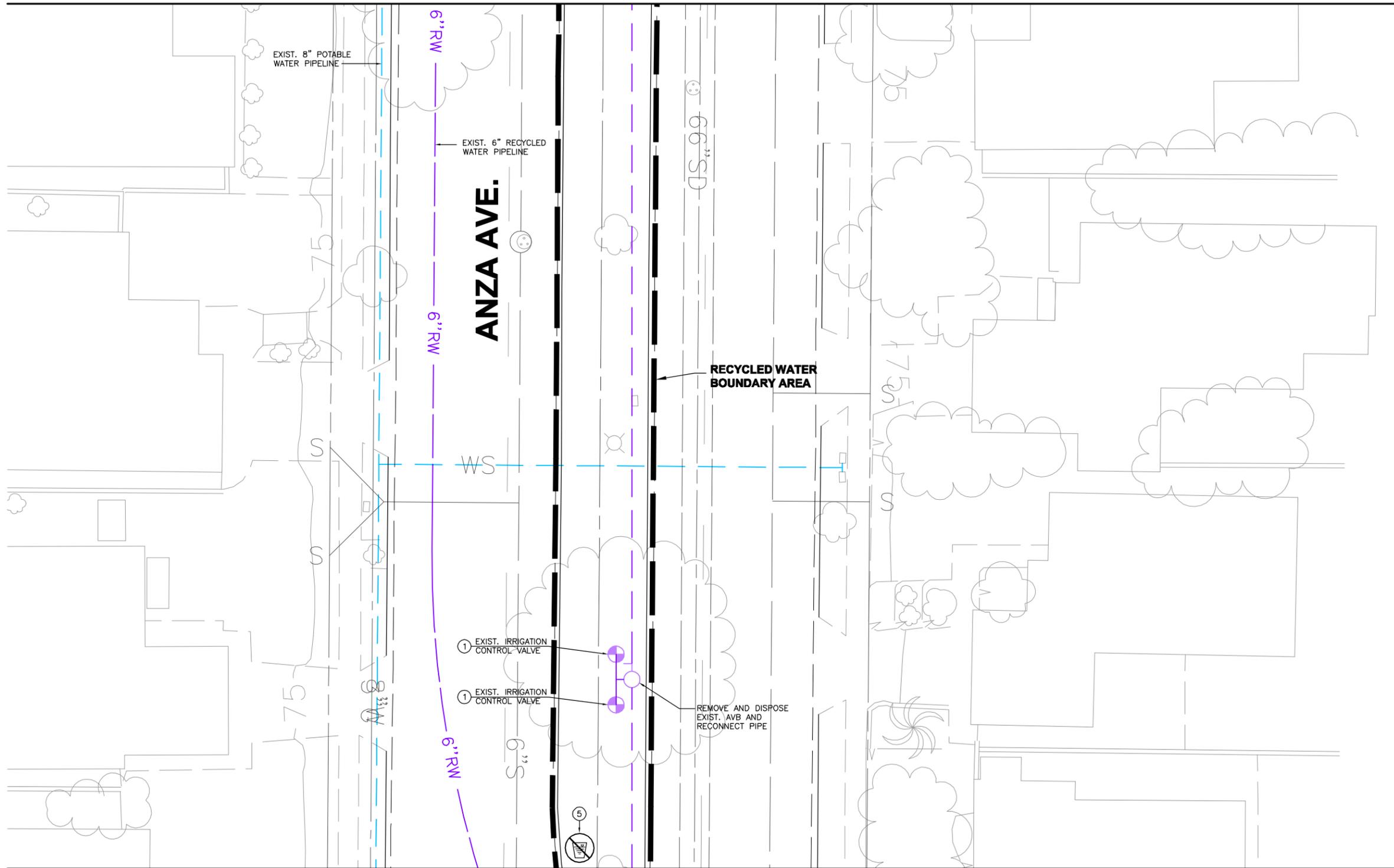
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 39

PROJECT NO.
 3915.0011.00

DWG. NO. **40** OF **47**

MATCHLINE - SEE DWG. NO. 40



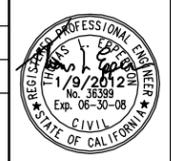
SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 42

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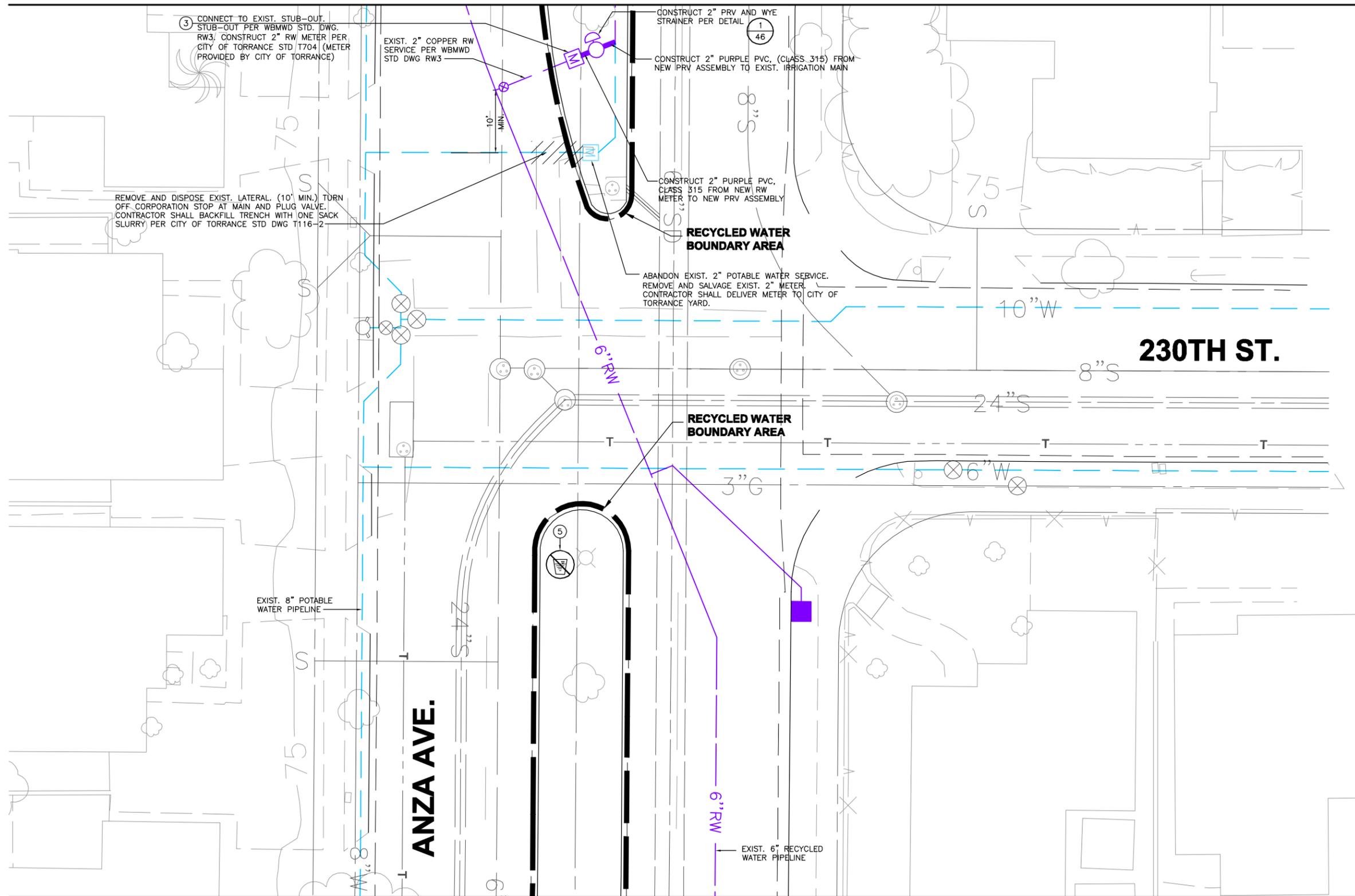
PLANS PREPARED BY:
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 Irvine, California 92614
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 40

PROJECT NO.
 3915.0011.00
 DWG. NO. **41** OF **47**

MATCHLINE - SEE DWG. NO. 41



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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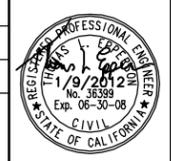
NOTES:

1. RECYCLED WATER METER AND BOX TO BE PROVIDED BY THE CITY. FINAL LOCATION OF METER SHALL BE DETERMINED IN THE FIELD BY THE CITY.

MATCHLINE - SEE DWG. NO. 43

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SCALE	1" = 20'		
DATE	JANUARY 2012		
FILENAME	SIPL01		
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CHECKED BY	MWB		
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 41

PROJECT NO.
 3915.0011.00
 DWG. NO. **42** OF **47**

MATCHLINE - SEE DWG. NO. 42

MATCHLINE - SEE DWG. NO. 44

SCALE: 1" = 20'

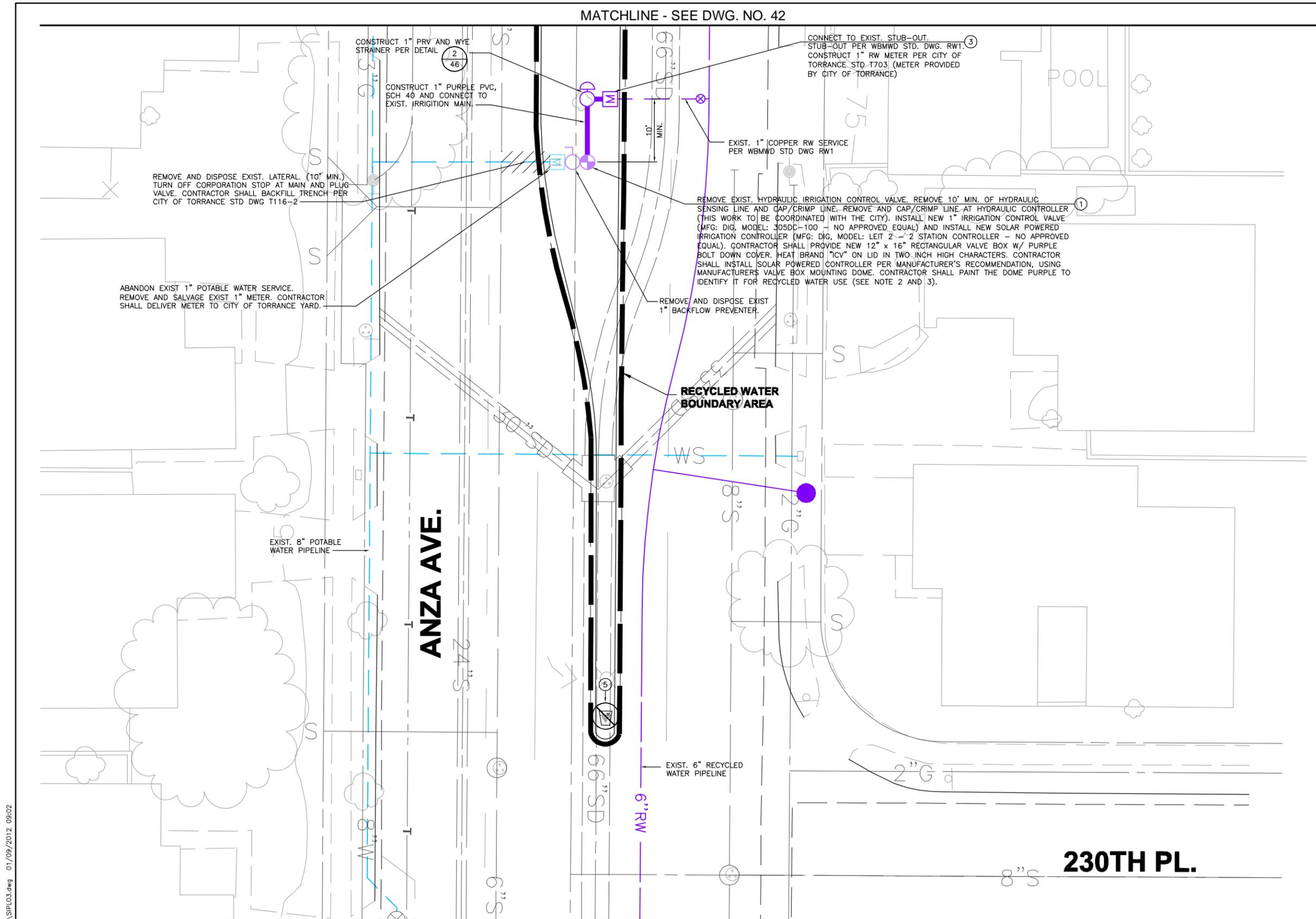


SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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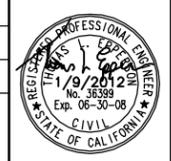
NOTES:

1. RECYCLED WATER METER AND BOX TO BE PROVIDED BY THE CITY. FINAL LOCATION OF METER SHALL BE DETERMINED IN THE FIELD BY THE CITY.
2. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE NEW IRRIGATION CONTROL VALVE BOX AND MATCH EXISTING GRADE.
3. CONTRACTOR SHALL FURNISH AND PROVIDE THE CITY OF TORRANCE WITH ONE IRRIGATION CONTROLLER WIRELESS HANDSET (MFG: DIG, MODEL: LEIT RC2 - NO APPROVED EQUAL) PROGRAMMED TO OPERATE ALL NEW SOLAR POWERED IRRIGATION CONTROLLERS.



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SCALE	1" = 20'		
DATE	JANUARY 2012		
FILENAME	SIPL01		
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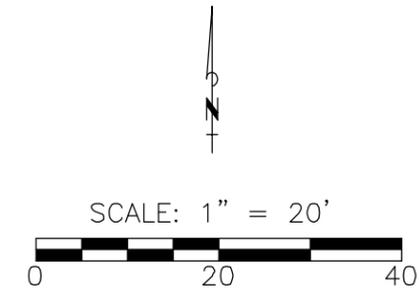
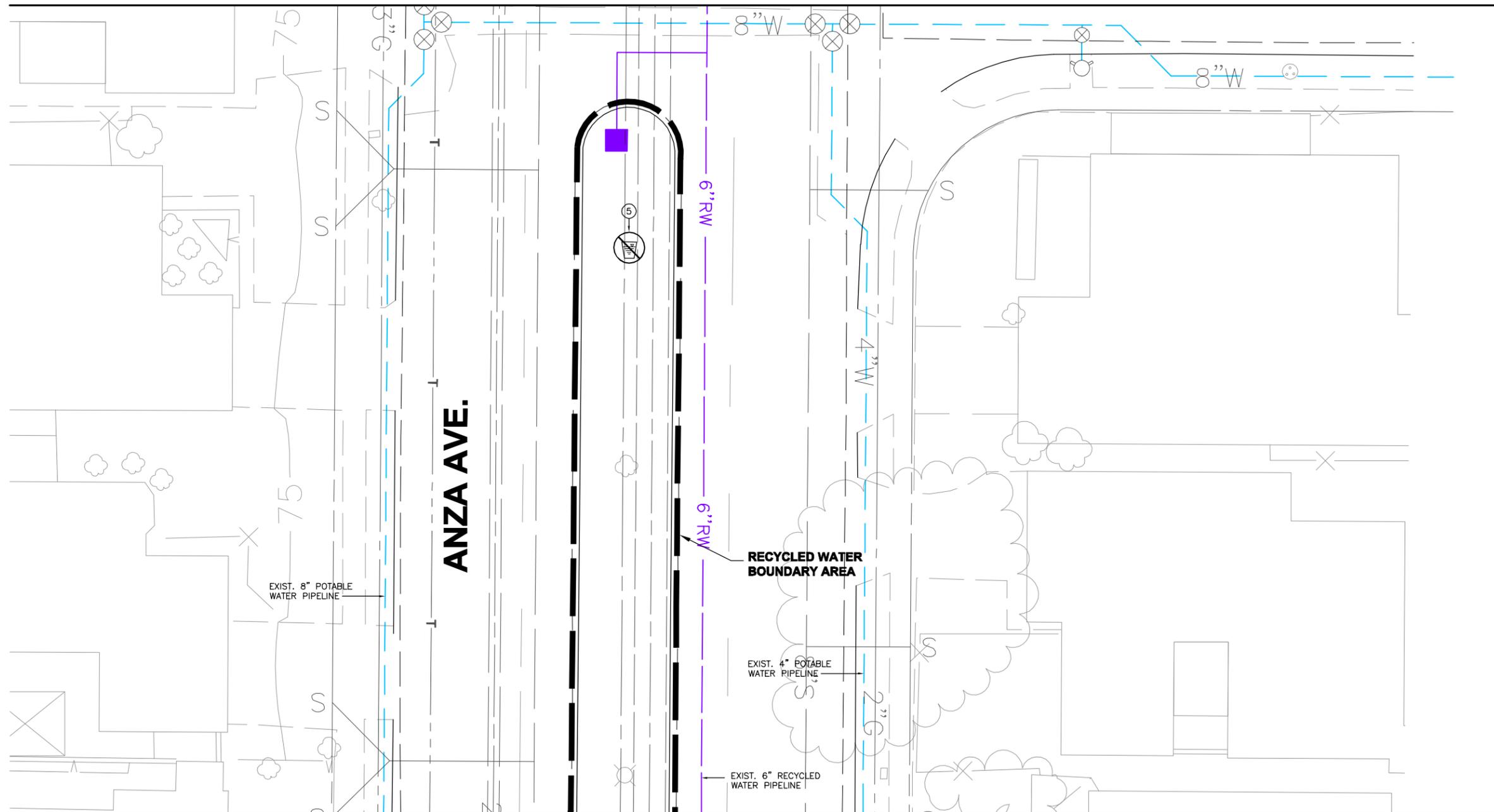
**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 42

PROJECT NO.
 3915.0011.00

DWG. NO. **43** OF **47**

MATCHLINE - SEE DWG. NO. 43



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
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MATCHLINE - SEE DWG. NO. 45

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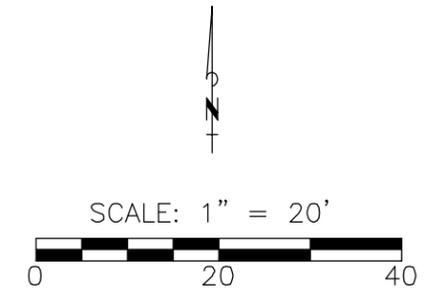
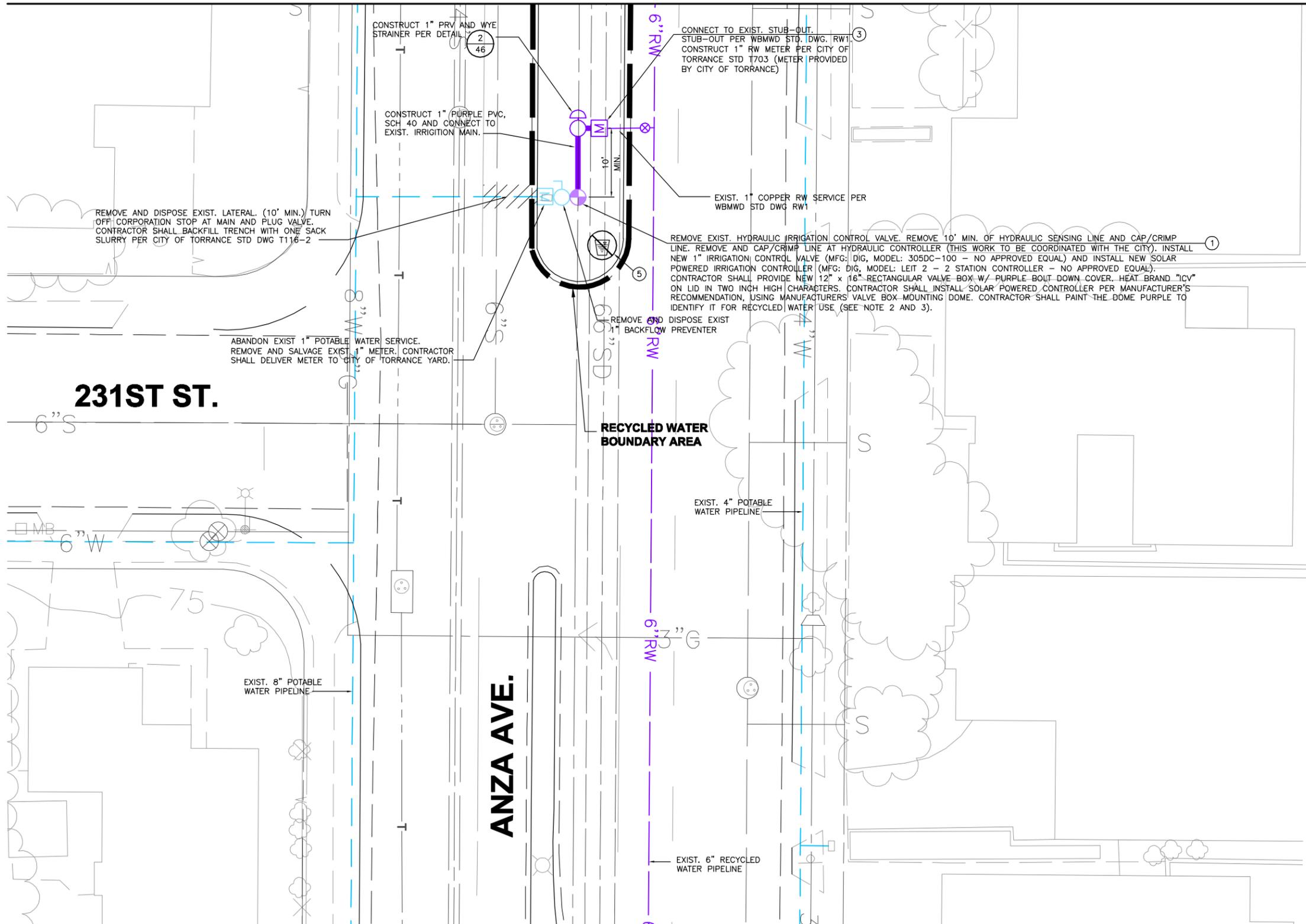
PLANS PREPARED BY:
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 17885 Von Karman Avenue, Suite 500
 Irvine, California 92614
 (949) 809-5000
 (949) 809-5010 FAX

**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

ANZA MEDIANS
 SITE PLAN 43

PROJECT NO.
 3915.0011.00
 DWG. NO. **44** OF **47**

MATCHLINE - SEE DWG. NO. 44



SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION TAGS/LABELS ON ALL EXISTING IRRIGATION APPURTENANCES FOUND ON THE RECYCLED WATER SYSTEM INCLUDING THE IRRIGATION GATE VALVES, MANUAL CONTROL VALVES AND ELECTRICAL CONTROL VALVES, ISOLATION VALVES, ABOVE GROUND PIPING, AND QUICK COUPLING VALVES.
- ② REMOVE HOSEBIB AND CAP BELOW GROUND.
- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL RECYCLED WATER METERS.
- ④ INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXISTING IRRIGATION CONTROLLERS
- ⑤ INSTALL RECYCLED WATER IDENTIFICATION SIGNS AT LOCATIONS AGREEABLE TO CITY OF TORRANCE AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. (SEE GENERAL NOTE 9 ON DWG. NO. 1)

NOTES:

1. RECYCLED WATER METER AND BOX TO BE PROVIDED BY THE CITY. FINAL LOCATION OF METER SHALL BE DETERMINED IN THE FIELD BY THE CITY.
2. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL THE NEW IRRIGATION CONTROL VALVE BOX AND MATCH EXISTING GRADE.
3. CONTRACTOR SHALL FURNISH AND PROVIDE THE CITY OF TORRANCE WITH ONE IRRIGATION CONTROLLER WIRELESS HANDSET (MFG: DIG, MODEL: LEIT RC2 - NO APPROVED EQUAL) PROGRAMMED TO OPERATE ALL NEW SOLAR POWERED IRRIGATION CONTROLLERS.

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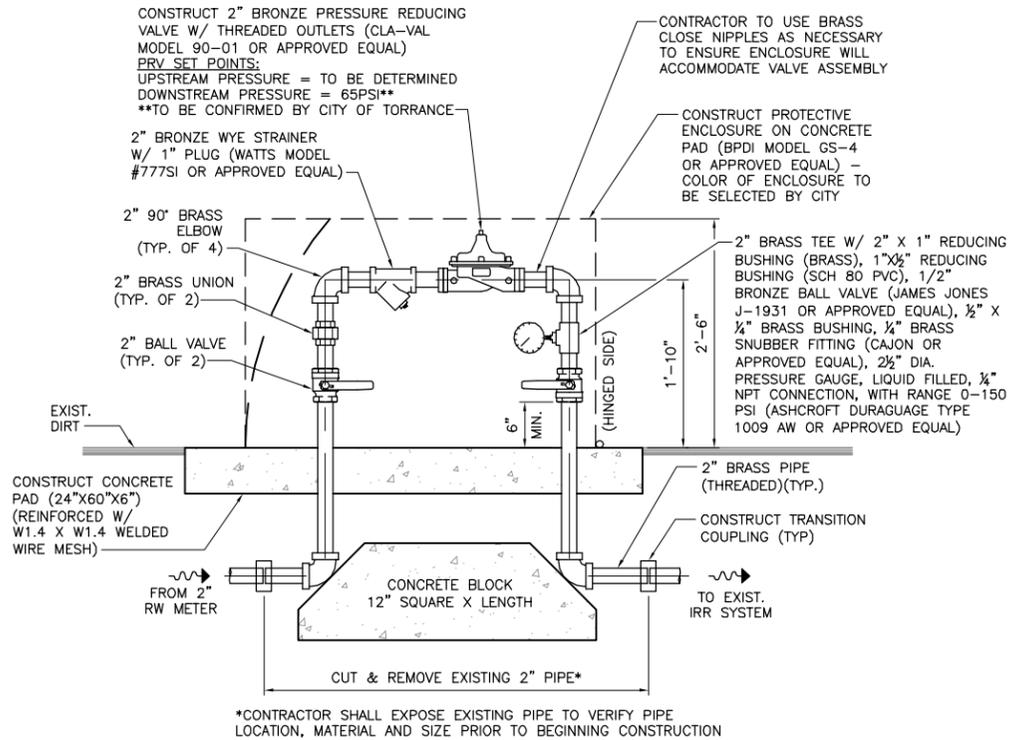
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 SITE PLAN 44**

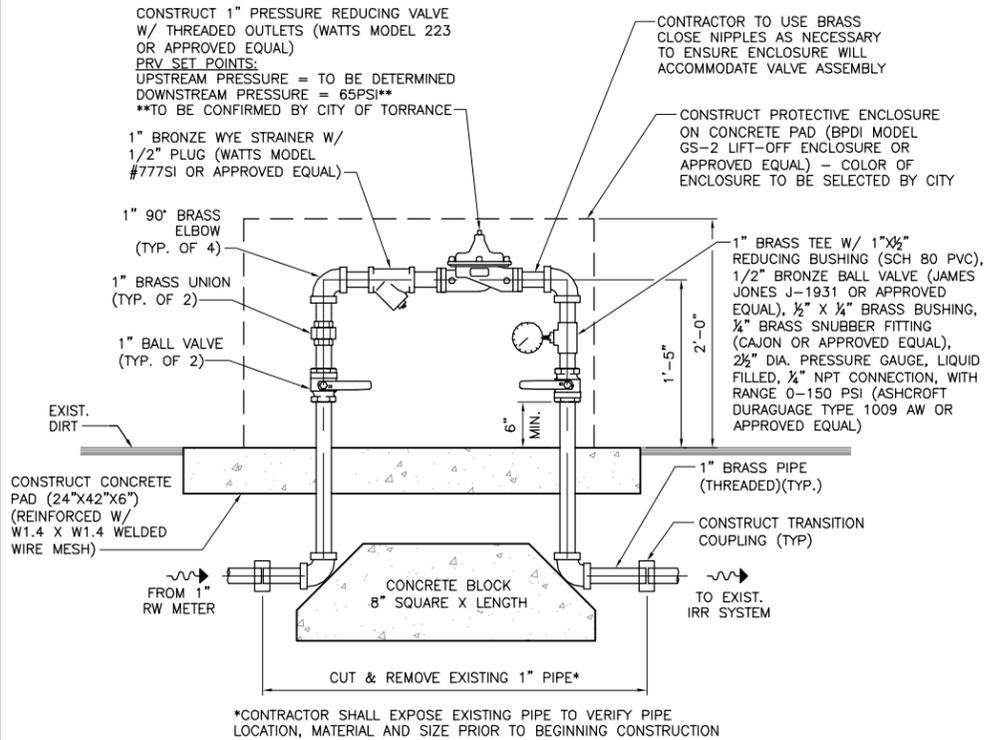
PROJECT NO.
3915.0011.00

DWG. NO. **45** OF **47**



- CONSTRUCTION NOTE:**
- CONTRACTOR SHALL TAG NEW ABOVE GROUND PRV, WYE-STRAINER AND VALVES WITH RECYCLED WATER IDENTIFICATION TAGS PER WBMWD STD. DWG. RW16. PERMANENTLY MARK ABOVE GROUND PRV PIPING WITH RECYCLED WATER IDENTIFICATION TAPE
 - FINAL LOCATION OF PRV ASSEMBLY TO BE DETERMINED IN THE FIELD BY THE CITY INSPECTOR.
 - CONTRACTOR SHALL FIELD VERIFY EXIST. PIPE SIZE, MATERIAL AND HORIZONTAL AND VERTICAL LOCATION PRIOR TO COMMENCING WORK.
 - PROTECTIVE ENCLOSURE SHALL BE ANCHORED TO CONCRETE BASE PER MANUFACTURERS RECOMMENDATIONS.
 - CONTRACTOR SHALL TAG NEW PRV WITH RECYCLED WATER IDENTIFICATION TAG PER WBMWD STD. DWG. RW16
 - CONTRACTOR SHALL CONSTRUCT ABOVE GROUND PIPING SO THAT IT FITS WITHIN SPECIFIED PROTECTIVE ENCLOSURE. THE CONTRACTOR WILL ALSO BE SURE TO POSITION HINGED ENCLOSURE IN SUCH A WAY THAT THE HINGED ENCLOSURE WILL CLEAR PIPING WHEN PIVOTED OPENED.

2-INCH PRV AND WYE-STRAINER ASSEMBLY 1
 N.T.S.



- CONSTRUCTION NOTE:**
- CONTRACTOR SHALL TAG NEW ABOVE GROUND PRV, WYE-STRAINER AND VALVES WITH RECYCLED WATER IDENTIFICATION TAGS PER WBMWD STD. DWG. RW16. PERMANENTLY MARK ABOVE GROUND PRV PIPING WITH RECYCLED WATER IDENTIFICATION TAPE
 - FINAL LOCATION OF PRV ASSEMBLY TO BE DETERMINED IN THE FIELD BY THE CITY INSPECTOR.
 - CONTRACTOR SHALL FIELD VERIFY EXIST. PIPE SIZE, MATERIAL AND HORIZONTAL AND VERTICAL LOCATION PRIOR TO COMMENCING WORK.
 - PROTECTIVE ENCLOSURE SHALL BE ANCHORED TO CONCRETE BASE PER MANUFACTURERS RECOMMENDATIONS.
 - CONTRACTOR SHALL TAG NEW PRV WITH RECYCLED WATER IDENTIFICATION TAG PER WBMWD STD. DWG. RW16
 - CONTRACTOR SHALL CONSTRUCT ABOVE GROUND PIPING SO THAT IT FITS WITHIN SPECIFIED PROTECTIVE ENCLOSURE.

1-INCH PRV AND WYE-STRAINER ASSEMBLY 2
 N.T.S.

NOT USED
 N.T.S.

NOT USED
 N.T.S.

NOT USED
 N.T.S.

NOT USED
 N.T.S.

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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**ANZA MEDIANS
 DETAILS**

PROJECT NO.
 3915.0011.00

DWG. NO. **46** OF **47**



**GUIDELINES FOR PIPELINE CONSTRUCTION AND INSTALLATION -
FOR THE SAFE USE OF RECYCLED / RECLAIMED WASTEWATER**

PURPOSE: As a result of increasing availability of recycled / reclaimed wastewater and an increased need for the transmission and use thereof, the Department of Public Health – Environmental Health (the Department) has found it necessary to establish the following regulations for pipeline construction and installation as well as for the safe use of recycled / reclaimed wastewater. These regulations are intended to protect public health by ensuring the safety of our domestic potable water supplies.

BACKGROUND: A recent increase in the number of inquiries and interest displayed regarding the use of recycled / reclaimed water, in the ongoing efforts to conserve water, have necessitated the need to establish definitions, standards and regulation for the uniform review and approval of recycled / reclaimed wastewater. Recycled / reclaimed water may be used for surface irrigation of the following: food crops; parks and playgrounds, school yards, residential landscaping, and unrestricted access golf courses.

DEFINITIONS:

Gray Water means untreated wastewater that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Gray water includes water from bathtubs, showers, bathroom wash basins, clothes-washers and laundry tubs.

Non-Potable Water means water which is unfit for human or animal consumption due to contaminants that exceed the current permissible Maximum Contaminant Level (MCL) in drinking water.

Potable Water means water which is fit for consumption by humans and other animals. The U.S. Environmental Protection Agency (EPA) identifies contaminants that may adversely affect public health and occur in drinking water with a frequency and at levels that pose a threat to public health. The EPA establishes (MCLs) for both biological and chemical contaminants permissible in drinking water. These MCLs become enforceable standards that determine the potability of water.

Recycled / Reclaimed Water means non-potable water that meets or as a result of treatment, meets federal requirements for its intended uses. The level of treatment and quality of the reclaimed / recycled water shall be approved by the Authority Having Jurisdiction. Reclaimed / recycled water systems shall have no connection to any potable water system, with or without mechanical backflow prevention devices.

Revised 09/22/09

- The use of recycled / reclaimed wastewater for irrigation purposes shall minimize exposure of the wastewater spray to drinking fountains and picnic tables through selective location of equipment and by appropriate irrigation system design. Additionally, the following measures should be taken: recycled wastewater spraying shall be done during hours of least public exposure; any area where recycled wastewater is released, used or impounded should be posted, informing the public that recycled water is being used; and irrigation practices utilizing recycled water shall be controlled to prevent surface runoff.

BACKFLOW PROTECTION

- There shall be no interconnection between a potable water system and a recycled / reclaimed water system within the user's premises.
- A dye or pressure test shall be utilized to confirm the physical separation of a recycled wastewater system and a potable water system. Testing shall be performed in conjunction with the Water Purveyor and this Department and conducted before the introduction of recycled wastewater.
- An approved backflow prevention device shall be installed at the potable water service connection.
- In a recycled / reclaimed wastewater distribution system, a backflow prevention device may be required at the recycled wastewater meter or at specific on-site locations where said use could degrade the quality of the recycled wastewater supply.



RECYCLED / RECLAIMED WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN COMPLIANCE WITH APPLICABLE POTABLE WATER SYSTEM CONSTRUCTION STANDARDS AS WELL AS THOSE SPECIFIED IN "THE PURPLE BOOK", CALIFORNIA HEALTH LAWS RELATED TO RECYCLED WATER, (CALIFORNIA HEALTH AND SAFETY CODE, WATER CODE, TITLES 22 AND 17 OF THE CALIFORNIA CODE OF REGULATIONS) AND THE LOS ANGELES COUNTY CODE (LACC), TITLE 28 – PLUMBING, APPENDIX J.

PRELIMINARY REQUIREMENTS

- Plans and specifications for recycled / reclaimed wastewater distribution systems, as well as the use and operation of such systems shall be submitted to the Department for review and approval prior to construction or implementation.
- Prior to commencing construction, the Contractor shall contact the Department to schedule an inspection of the proposed on-site recycled / reclaimed and potable water work.
- No piping for potable or recycled / reclaimed water in conjunction with a specified project shall be installed prior to plan check approval and preliminary inspection.
- Upon completion of construction, no excavation or open trench may be backfilled without first securing the Department approval. Any areas backfilled without prior approval will be required to be exposed and corrected as necessary.
- Only a Department approved temporary water connection, to a potable water supply via a dedicated, approved, reduced-pressure-principle backflow prevention device shall be permitted to be utilized for the purpose of flushing, pressure testing, construction, landscape use or the final cross-connection testing.

SEPARATION REQUIREMENTS

The maximum attainable separation of recycled / reclaimed wastewater lines and potable water lines shall be enforced in order to minimize potential risks associated with pipeline breaks resulting in infiltration of wastewater from leaking wastewater lines into domestic water lines, or accidental cross-connections between recycled wastewater and potable water systems.

- Parallel Construction:** A horizontal separation of at least ten feet (10') shall be required between pressurized, buried, recycled / reclaimed and potable water piping (all distance to be measured from pipeline outside diameter).

- Cross-Over Construction:** Buried potable water pipes crossing over pressurized recycled / reclaimed water pipes shall be laid not less than twelve inches (12") above the reclaimed water pipes. Reclaimed water pipes laid in the same trench or crossing-over building sewer or drainage piping shall be installed in compliance with the LACC – Title 28, Plumbing, Sections 609.0 and 720.0.
- Unused or Abandoned Potable Water Lines:** These lines are to be severed as close to water mains as practical, capped, and a ten foot (10') section of abandoned line removed and cemented under direct supervision by the Department.
- Existing On-site Piping:** Maximum separation of recycled / reclaimed wastewater lines and potable water lines shall be maintained upon system additions or modification.

PIPELINE MATERIALS AND IDENTIFICATION

All recycled / reclaimed water pipe materials, valves and fittings shall conform to the requirements of the LACC – Title 28, Plumbing, Sections 604.0, 605.0 and 606.0.

All recycled / reclaimed wastewater lines (pressure / non-pressure), valve boxes, hydrants and appurtenances shall be identified to clearly distinguish between recycled / reclaimed wastewater, non-potable and potable water systems (as specified in LACC – Title 28, Plumbing, Appendix J).

- Recycled / Reclaimed Wastewater:** All buried, recycled, wastewater systems (pressure / non-pressure) shall utilize purple pipe with black uppercase lettering "CAUTION: RECYCLED WATER – DO NOT DRINK" printed on opposite sides of the pipe. For limited application, the use of continuous lettering on three inch (3") minimum width purple tape with one inch black or white contrasting uppercase lettering "CAUTION RECYCLED WATER – DO NOT DRINK" permanently affixed at intervals not to exceed five feet, atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. All valves, except fixture supply control valves shall be equipped with a locking feature. All mechanical equipment that is appurtenant to the recycled / reclaimed water system shall be painted purple.

- Potable Water:** All potable water lines shall be installed in accordance with the Uniform Plumbing Code and all other applicable potable water system construction standards. All buried potable water lines shall be clearly identified by continuous lettering on three inch (3") minimum width blue tape with one inch (1") white lettering bearing the repeated wording "POTABLE WATER" permanently affixed at ten foot intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping and hydrants. Identification tape is not necessary for extruded colored PVC with continuous wording "POTABLE WATER" printed in contrasting lettering on opposite sides of the pipe.

- Non-Potable Water:** All non-potable irrigation / industrial water lines (pressure / non-pressure) shall be identified by continuous lettering on three inch (3") minimum width tape with one inch (1") contrasting lettering bearing the continuous uppercase lettering "NON-POTABLE WATER – DO NOT DRINK" permanently affixed at ten foot (10') intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. Exposed piping, valve boxes, vaults, control valves, quick coupling valves, outlets and related appurtenances shall be color-coded and labeled / tagged to differentiate between recycled / reclaimed wastewater, potable water and non-potable water systems. Tags identifying recycled / reclaimed water shall have the appropriate identification on both sides (wording on one side and symbol on the opposite side).



**THE SAFE USE OF RECYCLED / RECLAIMED WATER
PROTECTS POTABLE WATER**

- Deteriorated or inadequately-protected well water casings shall be repaired or replaced to protect aquifers against contamination from recycled / reclaimed wastewater systems.
- An On-Site Water Supervisor shall be appointed, having the responsibility of oversight for the protection of the potable water system (provided for under Title 17, Section 7586, and California Code of Regulations). The name and position of the On-Site Water Supervisor shall be reported to the water purveyor and to the Department. This position will be responsible for the installation, operation and maintenance of the recycled / reclaimed wastewater and potable water systems; authorization of any piping changes or additions to either the potable or recycled systems; prevention of potential hazards; implementation of the regulations; and coordination with the Cross-Connection Program of the water purveyor and of this Department.
- Hose bibbs shall not be permitted in any areas of public access to recycled / reclaimed wastewater systems, to prevent unauthorized use of recycled wastewater. Quick-couplers are permitted in lieu of hose-bibb outlets but shall only be connected to recycled / reclaimed wastewater lines. Hose bibbs may be permitted in areas that are not accessible to the public, provided they are properly identified with permanently affixed tags, labels, or plates with uppercase lettering "RECYCLED WATER – DO NOT DRINK" in English.

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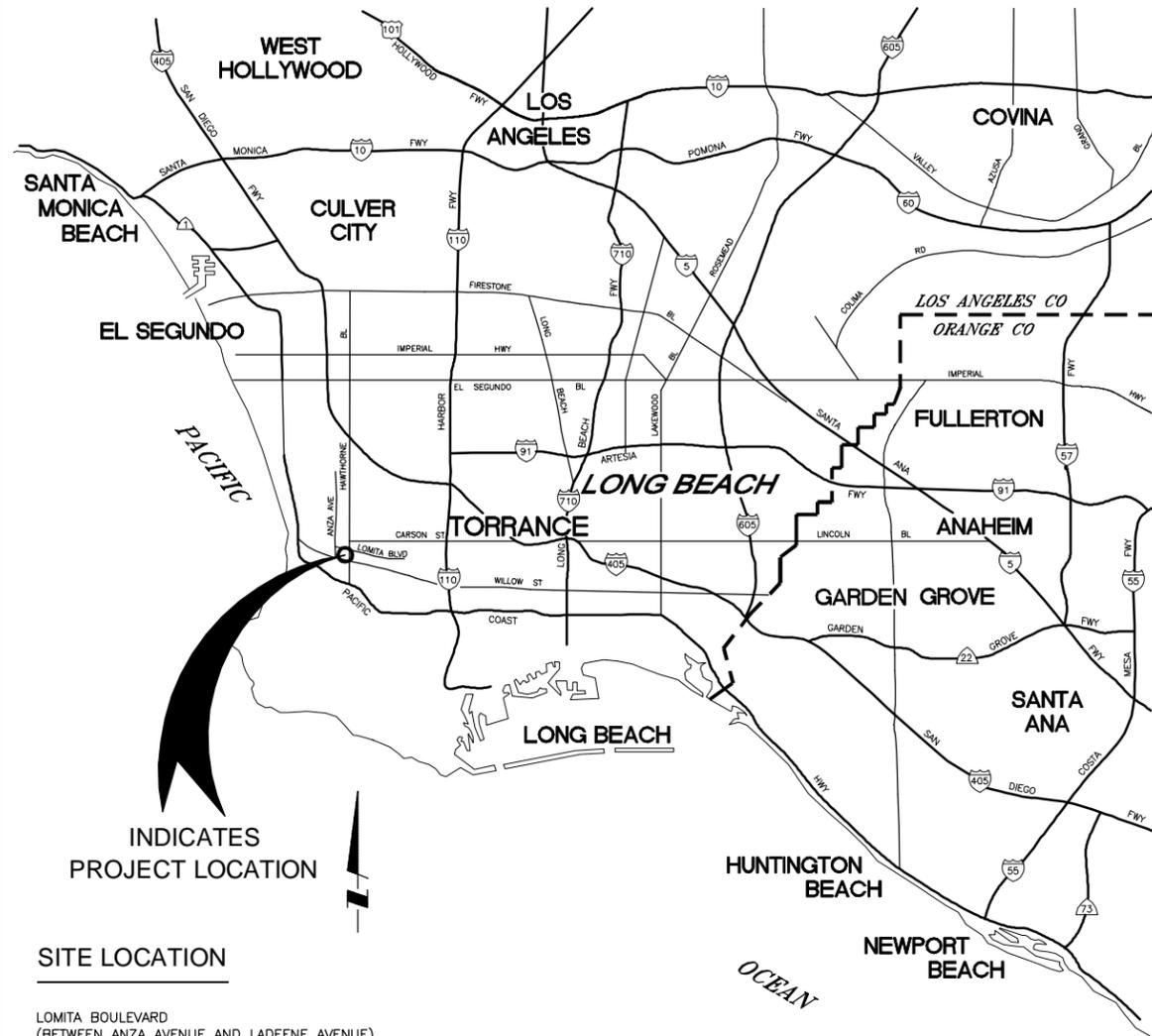
**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

ANZA AVENUE MEDIANS
DPH RECYCLED WATER GUIDELINES

PROJECT NO.	3915.0011.00
DWG. NO.	47 OF 47

WEST BASIN MUNICIPAL WATER DISTRICT

RECYCLED WATER CUSTOMER DEVELOPMENT ON-SITE RETROFIT FACILITIES LA PALOMA PARK TORRANCE, CA JANUARY 2012



INDICATES
PROJECT LOCATION

SITE LOCATION

LOMITA BOULEVARD
(BETWEEN ANZA AVENUE AND LADEENE AVENUE)
TORRANCE, CA 90505

LOCATION MAP

NO SCALE

CONTACTS

OWNER AND SITE SUPERVISOR:	CITY OF TORRANCE MIKE WILSON, PARK SERVICES MANAGER	(310) 781-6901
WATER PURVEYOR:	CITY OF TORRANCE WATER DEPARTMENT JOHN DETTLE	(310) 618-3059
WEST BASIN MUNICIPAL WATER DISTRICT:	FRANK FUCHS, PROJECT MANAGER	(310) 660-6255
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH:	CARLOS BORJA	(626) 430-5295

SYMBOLS AND ABBREVIATIONS

	RECYCLED WATER BOUNDARY AREA
	PROPERTY LINE/RIGHT OF WAY
	EXIST. POTABLE WATER LINE
	EXIST. SEWER
	EXIST. RECYCLED WATER LINE
	EXIST. RECYCLED WATER IRRIGATION MAIN
	EXIST. METER
	EXIST. REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
	EXIST. DRINKING FOUNTAIN
	EXIST. ELECTRIC CONTROL VALVE
	EXIST. QUICK COUPLING VALVE
	EXIST. HOSE BIB
	EXIST. GATE VALVE
	EXIST. VACUUM BREAKER
	PRESSURE REDUCING VALVE (PRV)
	EXIST. STATION IRRIGATION CONTROLLERS - HYDRAULIC (1,2,3...) CONTROLLERS - ELECTRIC (A,B,C...)
	CAP
	FIRE HYDRANT
	RECYCLED WATER SIGN
CWSC	CALIFORNIA WATER SERVICE COMPANY
D.I.	DUCTILE IRON
DPH	DEPARTMENT OF PUBLIC HEALTH
DWG.	DRAWING
EXIST.	EXISTING
F.H.	FIRE HYDRANT
FLG	FLANGED
MIN.	MINIMUM
NO.	NUMBER
PE	PLAIN END
PO	PUSH-ON
PRV	PRESSURE REDUCING VALVE
PW	POTABLE WATER
R/W	RIGHT OF WAY
RPPD	REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
RW	RECYCLED WATER
STD.	STANDARD
TMWD	TORRANCE MUNICIPAL WATER DISTRICT
TYP.	TYPICAL
WBMWD	WEST BASIN MUNICIPAL WATER DISTRICT

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS INC., CALIFORNIA WATER SERVICES COMPANY STANDARD PLANS, THE CITY OF TORRANCE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, WBMWD STANDARD SPECIFICATIONS FOR PIPELINE CONSTRUCTION AND THE RECYCLED WATER URBAN IRRIGATION USER'S MANUAL, LATEST EDITIONS.
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT LEAST TWELVE INCHES (12") ABOVE GRADE, READILY ACCESSIBLE FOR FIELD TEST AND MAINTENANCE, AND AS CLOSE TO THE POTABLE WATER METER AS PRACTICAL.
- DRINKING FOUNTAINS LOCATED IN RECYCLED WATER USE AREAS SHALL BE PROTECTED FROM RECYCLED WATER SPRAY BY A COMBINATION OF SELECTIVE LOCATION OF SUCH EQUIPMENT AND BY APPROPRIATE IRRIGATION SYSTEM DESIGN AND/OR MODIFICATION.
- QUICK COUPLERS AND ELECTRICAL CONTROLLERS SHALL BE IDENTIFIED WITH THE PROPER TAGS AND LABELS. QUICK COUPLERS SHALL BE INSTALLED IN BOXES.
- EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO VERIFY AND DOCUMENT ON AS-BUILT DRAWINGS THE ACTUAL LOCATION AND ELEVATIONS IN THE FIELD OF ALL UTILITIES AND ALL POINTS OF CONNECTION. THE FIELD VERIFICATION (POTHOLING) SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY MODIFICATIONS TO THE IRRIGATION SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLANS. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR.
- ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS ARE IN NO WAY GUARANTEED.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF ALL PRIVATE FACILITIES AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- RECYCLED WATER SIGNS SHALL BE INSTALLED AT LOCATIONS AGREEABLE TO THE CITY AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. SIGNAGE SIZE AND WORDING SHALL BE APPROVED BY THE CITY OF TORRANCE. THE SIGN SHALL BE A MINIMUM OF 18"x24" IN SIZE AND INCLUDE THE WORDING AND INTERNATIONAL SYMBOL SHOWN ON FIGURE 30610-A IN TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.
- ALL CONCRETE SHALL BE 560-C-3250 UNLESS OTHERWISE SPECIFIED.
- PRIOR TO DELIVERING RECYCLED WATER TO THE PARK, A SUCCESSFUL CROSS CONNECTION AND COVERAGE TEST WILL BE REQUIRED. THE FOLLOWING AGENCIES MAY BE PARTICIPATING IN THE TESTS: WBMWD, CITY OF TORRANCE, COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH, STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, AND A REPRESENTATIVE FROM TETRA TECH. CONTRACTOR WILL BE REQUIRED TO SEQUENCE THEIR WORK TO ALLOW FOR THE CROSS CONNECTION AND COVERAGE TESTS PRIOR TO PERFORMING THE DISCONNECTION OF THE POTABLE WATER AND CONNECTION OF THE RECYCLED WATER TO THE EXISTING IRRIGATION SYSTEM. CONTRACTOR SHALL PROVIDE SUPPORT DURING THE TEST AND A TEMPORARY POTABLE WATER SOURCE FOR TESTING OF THE IRRIGATION SYSTEM INCLUDING TEMPORARY PIPING, RP, AND WATER METER.
- QUICK COUPLING VALVES TO BE INSTALLED ON AN IRRIGATION SYSTEM SERVICED BY RECYCLED WATER SHALL BE OF BRASS CONSTRUCTION WITH A PERMANENTLY ATTACHED PURPLE RUBBER OR VINYL COVER WITH THE WORDS "RECYCLED WATER" IMPRINTED ON THE COVER. THE VALVE SHALL BE NELSON 42 WITH A 40K KEY (ACME THREAD) OR APPROVED EQUAL.
- CONTRACTOR SHALL REPAIR ANY BROKEN IRRIGATION LINES OR CONTROL WIRES WITHIN THE AREA OF WORK AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SEED (OF THE SAME SPECIES OF GRASS).
- CONTRACTOR SHALL NOTIFY WBMWD A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO EXISTING WBMWD RECYCLED WATER FACILITIES. CONTRACTOR SHALL CONTACT GEORGE COOK AT (310) 420-8603.

SHEET INDEX

SHEET	DESCRIPTION
1	GENERAL INFORMATION
2	SITE PLAN
3	SITE DETAILS
4	DPH RECYCLED WATER GUIDELINES & SITE DETAILS

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**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

LA PALOMA PARK
GENERAL INFORMATION

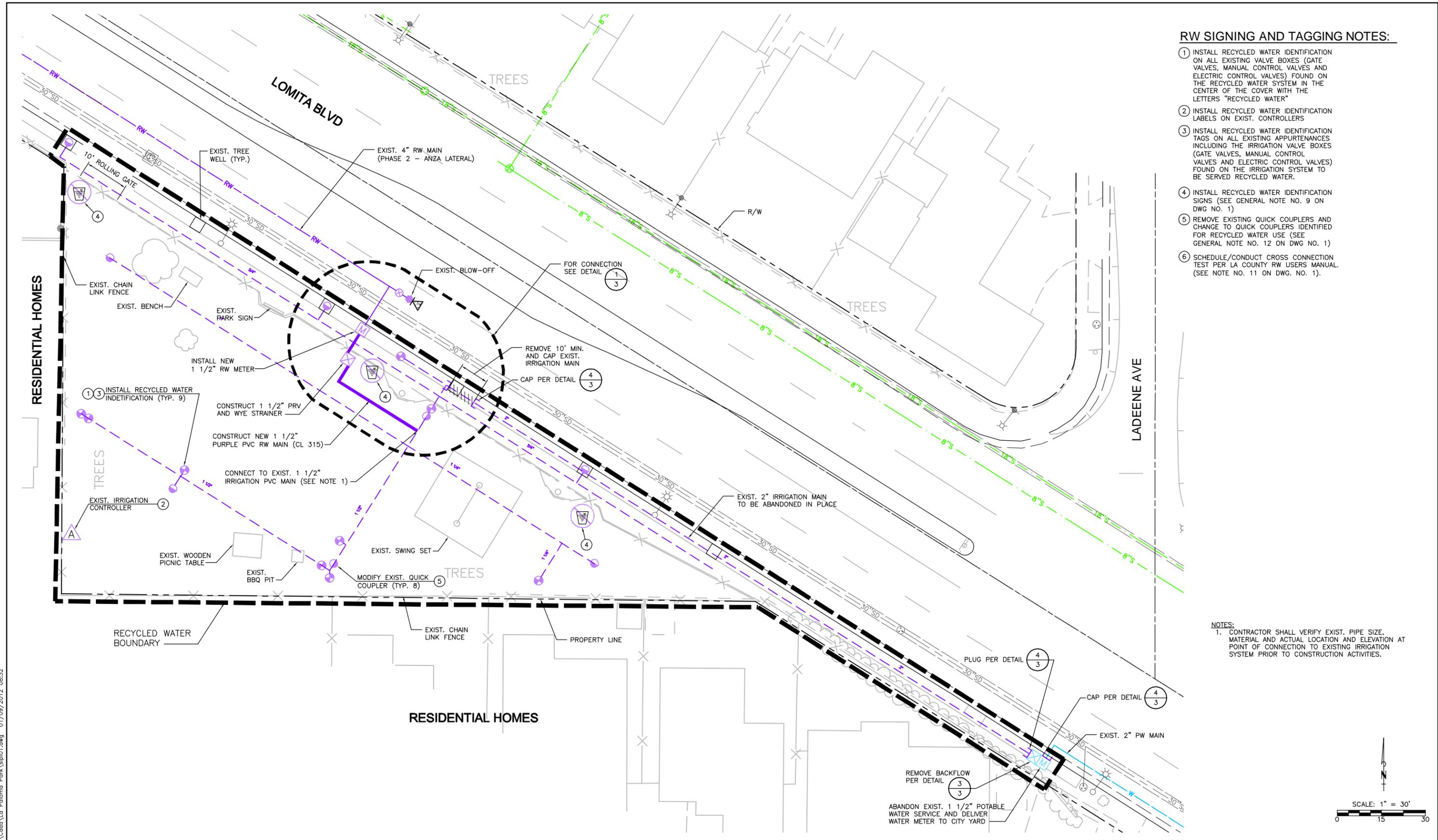
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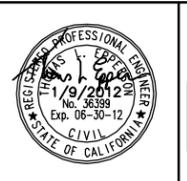
RW SIGNING AND TAGGING NOTES:

- ① INSTALL RECYCLED WATER IDENTIFICATION ON ALL EXISTING VALVE BOXES (GATE VALVES, MANUAL CONTROL VALVES AND ELECTRIC CONTROL VALVES) FOUND ON THE RECYCLED WATER SYSTEM IN THE CENTER OF THE COVER WITH THE LETTERS "RECYCLED WATER"
- ② INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXIST. CONTROLLERS
- ③ INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL EXISTING APPURTENANCES INCLUDING THE IRRIGATION VALVE BOXES (GATE VALVES, MANUAL CONTROL VALVES AND ELECTRIC CONTROL VALVES) FOUND ON THE IRRIGATION SYSTEM TO BE SERVED RECYCLED WATER.
- ④ INSTALL RECYCLED WATER IDENTIFICATION SIGNS (SEE GENERAL NOTE NO. 9 ON DWG NO. 1)
- ⑤ REMOVE EXISTING QUICK COUPLERS AND CHANGE TO QUICK COUPLERS IDENTIFIED FOR RECYCLED WATER USE (SEE GENERAL NOTE NO. 12 ON DWG NO. 1)
- ⑥ SCHEDULE/CONDUCT CROSS CONNECTION TEST PER LA COUNTY RW USERS MANUAL (SEE NOTE NO. 11 ON DWG. NO. 1).

NOTES:
 1. CONTRACTOR SHALL VERIFY EXIST. PIPE SIZE, MATERIAL AND ACTUAL LOCATION AND ELEVATION AT POINT OF CONNECTION TO EXISTING IRRIGATION SYSTEM PRIOR TO CONSTRUCTION ACTIVITIES.



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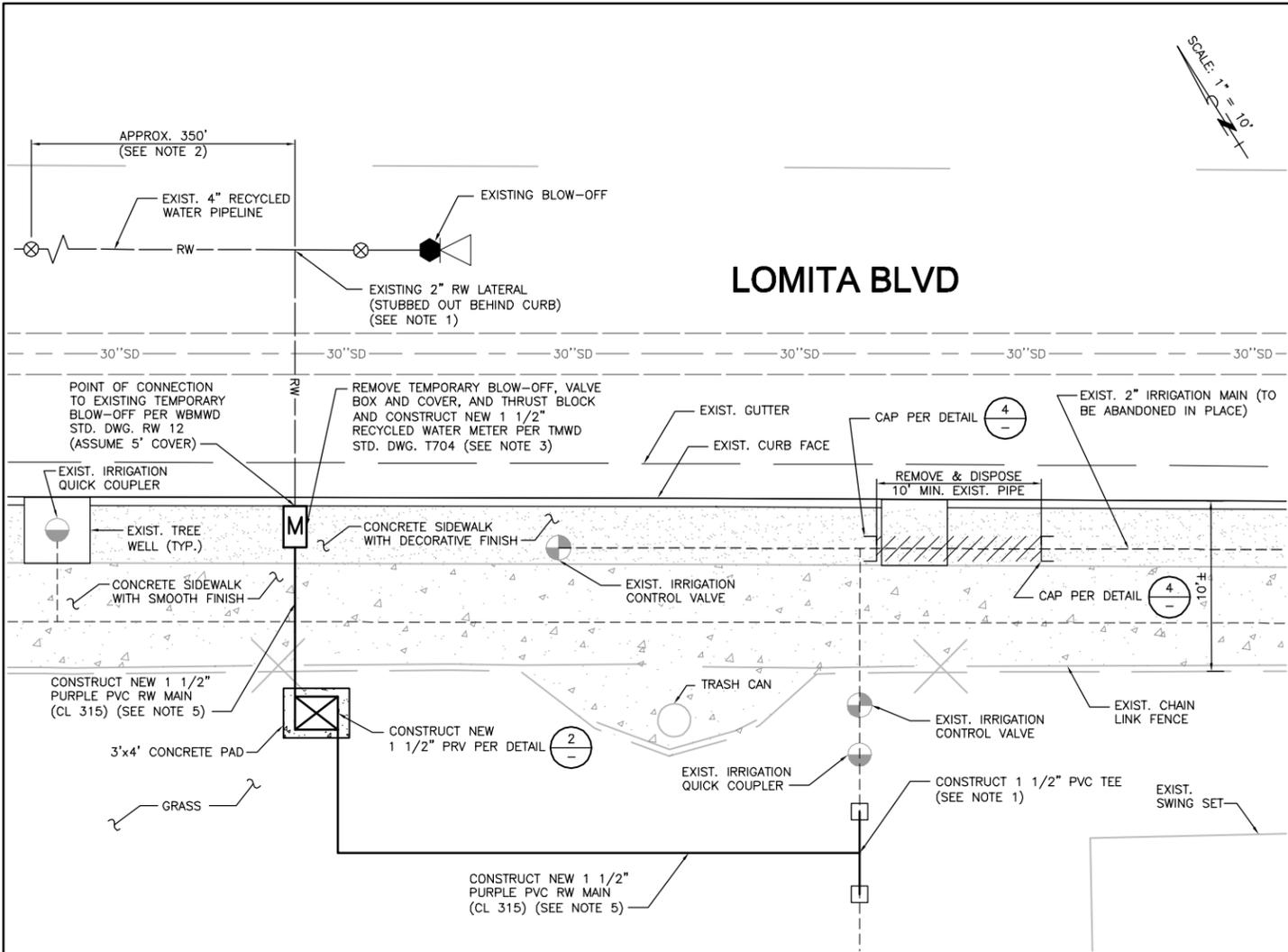
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**LA PALOMA PARK
 SITE PLAN**

PROJECT NO.	09265.09001
DWG. NO.	2 OF 4

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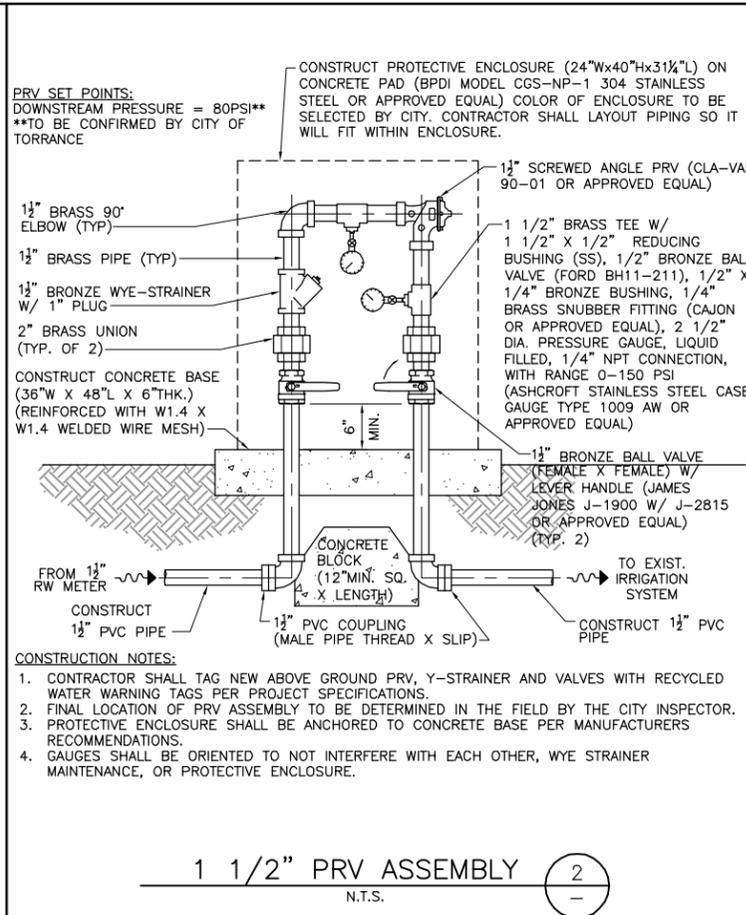


LOMITA BLVD

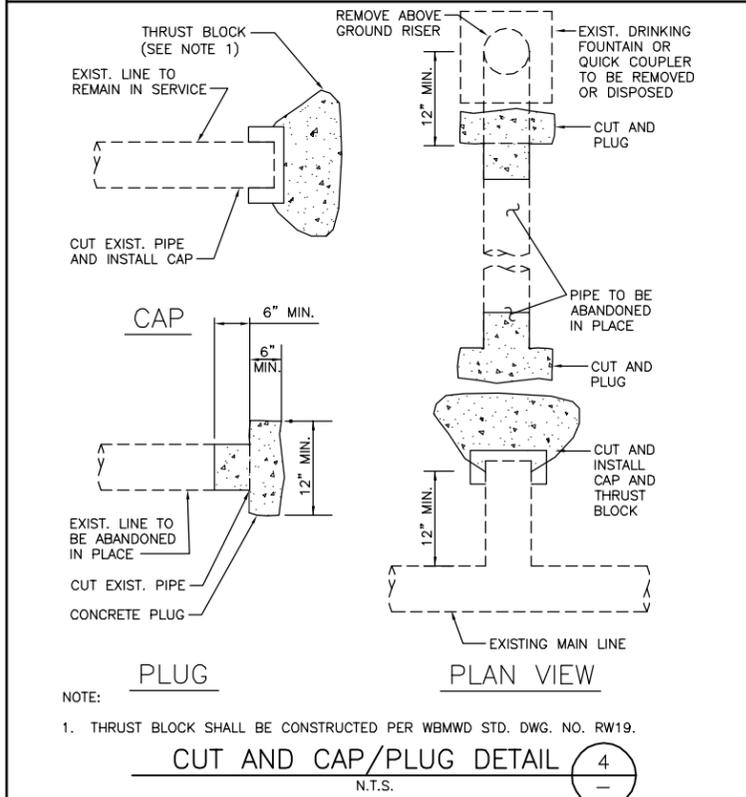
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- NOTES:
- CONTRACTOR SHALL VERIFY EXIST. PIPE SIZE, MATERIAL AND ACTUAL LOCATION AND ELEVATION AT POINT OF CONNECTION TO EXISTING IRRIGATION SYSTEM PRIOR TO CONSTRUCTION ACTIVITIES.
 - CONTRACTOR SHALL CONTACT TMWD ONE (1) WEEK PRIOR TO PLANNED CONSTRUCTION OF NEW 1 1/2" RECYCLED WATER METER AND COORDINATE VALVE SHUT OFF AT INTERSECTION OF ANZA AVE AND LOMITA BLVD TO ISOLATE LOMITA LATERAL AND FACILITATE REMOVAL OF TEMPORARY BLOW-OFF AND INSTALLATION OF NEW 1 1/2" RECYCLED WATER METER. CONTRACTOR IS REQUIRED TO DEWATER PIPELINE BEFORE INSTALLATION OF NEW 1 1/2" RECYCLED WATER METER.
 - CONTRACTOR SHALL REMOVE CONCRETE SIDEWALK TO NEAREST SCORE MARK OR CONTROL JOINT AND BE REPLACED PER CITY OF TORRANCE STD. DWG. T102-2. CONTRACTOR SHALL REMOVE AND REPLACE DECORATIVE CONCRETE SIDEWALK IN KIND TO THE SATISFACTION OF THE CITY OF TORRANCE.
 - CONTRACTOR SHALL REPLACE IN KIND EXISTING LANDSCAPING AND IRRIGATION DAMAGED DURING CONSTRUCTION ACTIVITIES.
 - PIPE TRENCHING, BEDDING FOR PIPE TRENCH, AND WM REMOVAL IN PLACE OF THE REMOVED RP CONCRETE PAD SHALL BE PER THE CITY OF TORRANCE STD NOS. T701 AND T116. GRASS AREAS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH SOD OR TO THE SATISFACTION OF THE CITY OF TORRANCE PARKS DEPARTMENT. BACKFILL SHALL BE CLEAN IMPORTED FILL OR NATIVE AND COMPACT BACKFILL TO 85% RELATIVE COMPACTION.

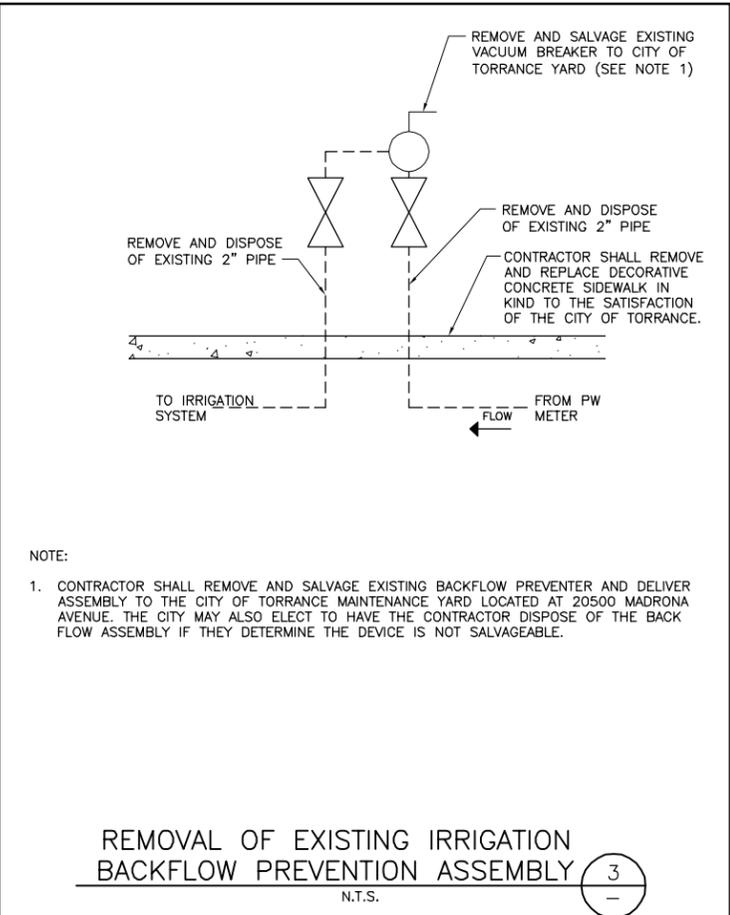
CONNECTION DETAIL 1
1" = 10'



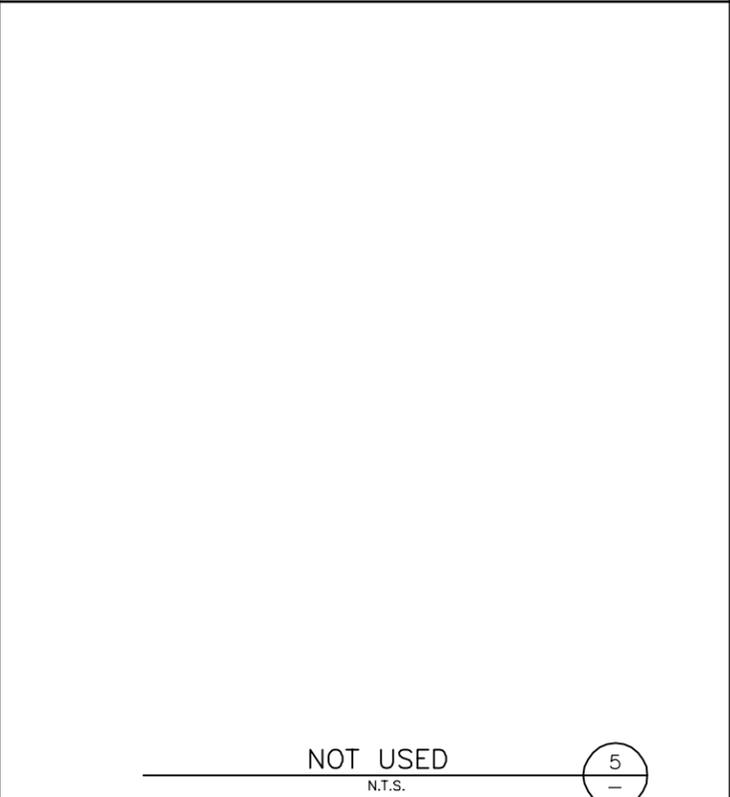
1 1/2" PRV ASSEMBLY 2
N.T.S.



CUT AND CAP/PLUG DETAIL 4
N.T.S.



REMOVAL OF EXISTING IRRIGATION BACKFLOW PREVENTION ASSEMBLY 3
N.T.S.



NOT USED 5
N.T.S.

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FILENAME	WTD01
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DRAWN BY	EAC
CHECKED BY	MWB



PLANS PREPARED BY:
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WEST BASIN MUNICIPAL WATER DISTRICT
EXPANDING RECYCLED WATER SERVICE

LA PALOMA PARK
SITE DETAILS

PROJECT NO.	09265.09001
DWG. NO.	3 OF 4



GUIDELINES FOR PIPELINE CONSTRUCTION AND INSTALLATION -
FOR THE SAFE USE OF RECYCLED / RECLAIMED WASTEWATER

PURPOSE: As a result of increasing availability of recycled / reclaimed wastewater and an increased need for the transmission and use thereof, the Department of Public Health – Environmental Health (the Department) has found it necessary to establish the following regulations for pipeline construction and installation as well as for the safe use of recycled / reclaimed wastewater. These regulations are intended to protect public health by ensuring the safety of our domestic potable water supplies.

BACKGROUND: A recent increase in the number of inquiries and interest displayed regarding the use of recycled / reclaimed water, in the ongoing efforts to conserve water, have necessitated the need to establish definitions, standards and regulation for the uniform review and approval of recycled / reclaimed wastewater. Recycled / reclaimed water may be used for surface irrigation of the following: food crops, parks and playgrounds; school yards; residential landscaping; and unrestricted access golf courses.

DEFINITIONS:

Gray Water means untreated wastewater that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Gray water includes water from bathtubs, showers, bathrooms wash basins, clothes-washers and laundry tubs.

Non-Potable Water means water which is unfit for human or animal consumption due to contaminants that exceed the current permissible Maximum Contaminant Level (MCL) in drinking water.

Potable Water means water which is fit for consumption by humans and other animals. The U.S. Environmental Protection Agency (EPA) identifies contaminants that may adversely affect public health and occur in drinking water with a frequency and at levels that pose a threat to public health. The EPA establishes (MCLs) for both biological and chemical contaminants permissible in drinking water. These MCLs become enforceable standards that determine the potability of water.

Recycled / Reclaimed Water means non-potable water that meets or as a result of treatment, meets federal requirements for its intended uses. The level of treatment and quality of the recycled / reclaimed water shall be approved by the Authority Having Jurisdiction. Reclaimed / recycled water systems shall have no connection to any potable water system, with or without mechanical backflow prevention devices.

Revised 09/22/09

- The use of recycled / reclaimed wastewater for irrigation purposes shall minimize exposure of the wastewater spray to drinking fountains and picnic tables through selective location of equipment and by appropriate irrigation system design. Additionally, the following measures should be taken: recycled wastewater spraying shall be done during hours of least public exposure; any area where recycled wastewater is released, used or impounded should be posted, informing the public that recycled water is being used; and irrigation practices utilizing recycled water shall be controlled to prevent surface runoff.

BACKFLOW PROTECTION

- There shall be no interconnection between a potable water system and a recycled / reclaimed water system within the user's premises.
- A dye or pressure test shall be utilized to confirm the physical separation of a recycled wastewater system and a potable water system. Testing shall be performed in conjunction with the Water Purveyor and this Department and conducted before the introduction of recycled wastewater.
- An approved backflow prevention device shall be installed at the potable water service connection.
- In a recycled / reclaimed wastewater distribution system, a backflow prevention device may be required at the recycled wastewater meter or at specific on-site locations where said use could degrade the quality of the recycled wastewater supply.



RECYCLED / RECLAIMED WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN COMPLIANCE WITH APPLICABLE POTABLE WATER SYSTEM CONSTRUCTION STANDARDS AS WELL AS THOSE SPECIFIED IN "THE PURPLE BOOK", CALIFORNIA HEALTH LAWS RELATED TO RECYCLED WATER, (CALIFORNIA HEALTH AND SAFETY CODE, WATER CODE, TITLES 22 AND 17 OF THE CALIFORNIA CODE OF REGULATIONS) AND THE LOS ANGELES COUNTY CODE (LACC), TITLE 28 – PLUMBING, APPENDIX J.

PRELIMINARY REQUIREMENTS

- Plans and specifications for recycled / reclaimed wastewater distribution systems, as well as the use and operation of such systems shall be submitted to the Department for review and approval prior to construction or implementation.
- Prior to commencing construction, the Contractor shall contact the Department to schedule an inspection of the proposed on-site recycled / reclaimed and potable water work.
- No piping for potable or recycled / reclaimed water in conjunction with a specified project shall be installed prior to plan check approval and preliminary inspection.
- Upon completion of construction, no excavation or open trench may be backfilled without first securing the Department approval. Any areas backfilled without prior approval will be required to be exposed and corrected as necessary.
- Only a Department approved temporary water connection, to a potable water supply via a dedicated, approved, reduced-pressure-principle backflow prevention device shall be permitted to be utilized for the purpose of flushing, pressure testing, construction, landscape use or the final cross-connection testing.

SEPARATION REQUIREMENTS

The maximum attainable separation of recycled / reclaimed wastewater lines and potable water lines shall be enforced in order to minimize potential risks associated with pipeline breaks resulting in infiltration of wastewater from leaking wastewater lines into domestic water lines, or accidental cross-connections between recycled wastewater and potable water systems.

- Parallel Construction:** A horizontal separation of at least ten feet (10') shall be required between pressurized, buried, recycled / reclaimed and potable water piping (all distance to be measured from pipeline outside diameter).

- Cross-Over Construction:** Buried potable water pipes crossing over pressurized recycled / reclaimed water pipes shall be laid not less than twelve inches (12") above the reclaimed water pipes. Reclaimed water pipes laid in the same trench or crossing-over building sewer or drainage piping shall be installed in compliance with the LACC – Title 28, Plumbing, Sections 609.0 and 720.0.
- Unused or Abandoned Potable Water Lines:** These lines are to be severed as close to water mains as practical, capped, and a ten foot (10') section of abandoned line removed and cemented under direct supervision by the Department.
- Existing On-site Piping:** Maximum separation of recycled / reclaimed wastewater lines and potable water lines shall be maintained upon system additions or modification.

PIPELINE MATERIALS AND IDENTIFICATION

All recycled / reclaimed water pipe materials, valves and fittings shall conform to the requirements of the LACC – Title 28, Plumbing, Sections 604.0, 605.0 and 606.0.

All recycled / reclaimed wastewater lines (pressure / non-pressure), valve boxes, hydrants and appurtenances shall be identified to clearly distinguish between recycled / reclaimed wastewater, non-potable and potable water systems (as specified in LACC – Title 28, Plumbing, Appendix J).

- Recycled / Reclaimed Wastewater:** All buried, recycled, wastewater systems (pressure / non-pressure) shall utilize purple pipe with black uppercase lettering "CAUTION: RECYCLED WATER – DO NOT DRINK" printed on opposite sides of the pipe. For limited application, the use of continuous lettering on three inch (3") minimum width purple tape with one inch black or white contrasting uppercase lettering "CAUTION RECYCLED WATER – DO NOT DRINK" permanently affixed at intervals not to exceed five feet, atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. All valves, except fixture supply control valves shall be equipped with a locking feature. All mechanical equipment that is appurtenant to the recycled / reclaimed water system shall be painted purple.
- Potable Water:** All potable water lines shall be installed in accordance with the Uniform Plumbing Code and all other applicable potable water system construction standards. All buried potable water lines shall be clearly identified by continuous lettering on three inch (3") minimum width blue tape with one inch (1") white lettering bearing the repeated wording "POTABLE WATER" permanently affixed at ten foot intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping and hydrants. Identification tape is not necessary for extruded colored PVC with continuous wording "POTABLE WATER" printed in contrasting lettering on opposite sides of the pipe.

- Non-Potable Water:** All non-potable irrigation / industrial water lines (pressure / non-pressure) shall be identified by continuous lettering on three inch (3") minimum width tape with one inch (1") contrasting lettering bearing the continuous uppercase lettering "NON-POTABLE WATER – DO NOT DRINK" permanently affixed at ten foot (10') intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. Exposed piping, valve boxes, vaults, control valves, quick coupling valves, outlets and related appurtenances shall be color-coded and labeled / tagged to differentiate between recycled / reclaimed wastewater, potable water and non-potable water systems. Tags identifying recycled / reclaimed water shall have the appropriate identification on both sides (wording on one side and symbol on the opposite side).



THE SAFE USE OF RECYCLED / RECLAIMED WATER PROTECTS POTABLE WATER

- Deteriorated or inadequately-protected well water casings shall be repaired or replaced to protect aquifers against contamination from recycled / reclaimed wastewater systems.
- An On-Site Water Supervisor shall be appointed, having the responsibility of oversight for the protection of the potable water system (provided for under Title 17, Section 7586, and California Code of Regulations). The name and position of the On-Site Water Supervisor shall be reported to the water purveyor and to the Department. This position will be responsible for the installation, operation and maintenance of the recycled / reclaimed wastewater and potable water systems; authorization of any piping changes or additions to either the potable or recycled systems; prevention of potential hazards; implementation of the regulations; and coordination with the Cross-Connection Program of the water purveyor and of this Department.
- Hose bibbs shall not be permitted in any areas of public access to recycled / reclaimed wastewater systems, to prevent unauthorized use of recycled wastewater. Quick-couplers are permitted in lieu of hose-bibb outlets but shall only be connected to recycled / reclaimed wastewater lines. Hose bibbs may be permitted in areas that are not accessible to the public, provided they are properly identified with permanently affixed tags, labels, or plates with uppercase lettering "RECYCLED WATER – DO NOT DRINK" in English.

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DRAWN BY	EAC				
CHECKED BY	MWB				
REVISIONS					
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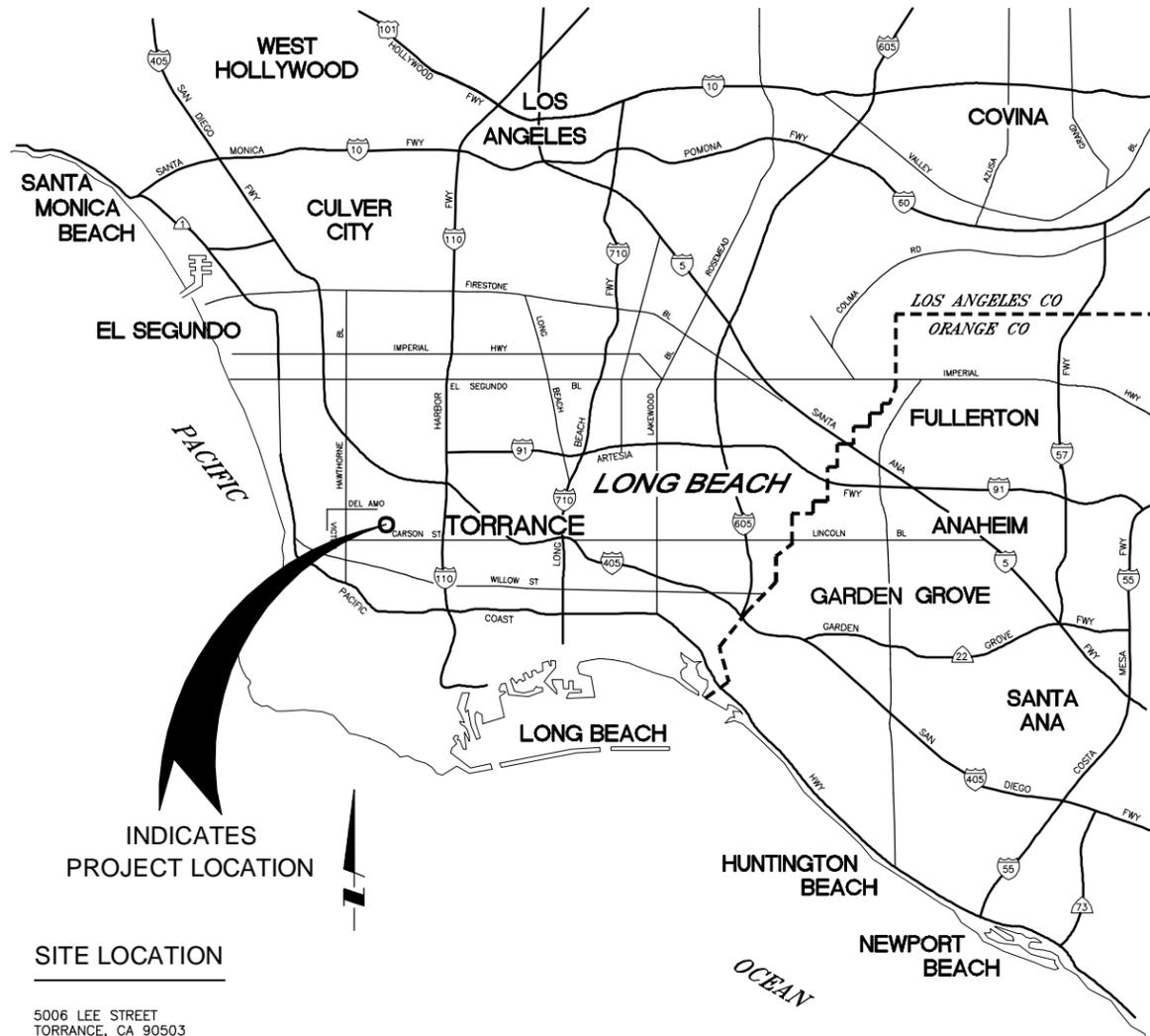
WEST BASIN MUNICIPAL WATER DISTRICT
EXPANDING RECYCLED WATER SERVICE

LA PALOMA PARK
DPH RECYCLED WATER GUIDELINES

PROJECT NO.	3915.0011.00
DWG. NO.	4 OF 4

WEST BASIN MUNICIPAL WATER DISTRICT

RECYCLED WATER CUSTOMER DEVELOPMENT ON-SITE RETROFIT FACILITIES PARADISE PARK TORRANCE, CA JANUARY 2012



INDICATES
PROJECT LOCATION

SITE LOCATION

5006 LEE STREET
TORRANCE, CA 90503

LOCATION MAP

NO SCALE

CONTACTS

OWNER AND SITE SUPERVISOR:	CITY OF TORRANCE MIKE WILSON, PARK SERVICES MANAGER	(310) 781-6901
WATER PURVEYOR:	CALIFORNIA WATER SERVICE COMPANY GEORGE COOK	(310) 420-8603
WEST BASIN MUNICIPAL WATER DISTRICT:	FRANK FUCHS, PROJECT MANAGER	(310) 660-6255
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH:	CARLOS BORJA	(626) 430-5295

SYMBOLS AND ABBREVIATIONS

	RECYCLED WATER BOUNDARY AREA
	PROPERTY LINE
	EXIST. POTABLE WATER LINE
	EXIST. SEWER
	EXIST. RECYCLED WATER LINE
	EXIST. RECYCLED WATER MAIN IRRIGATION LINE
	EXIST. RECYCLED WATER IRRIGATION LATERAL
	EXIST. POTABLE WATER MAIN IRRIGATION LINE
	EXIST. POTABLE WATER IRRIGATION LATERAL
	EXIST. METER
	EXIST. REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
	EXIST. DRINKING FOUNTAIN
	EXIST. ELECTRIC CONTROL VALVE
	EXIST. QUICK COUPLING VALVE
	EXIST. HOSE BIB
	EXIST. GATE VALVE
	EXIST. VACUUM BREAKER
	PRESSURE REDUCING VALVE (PRV)
	EXIST. STATION IRRIGATION CONTROLLERS - HYDRAULIC (1,2,3...) CONTROLLERS - ELECTRIC (A,B,C...)
	CAP
	FIRE HYDRANT
	RECYCLED WATER SIGN
CWSC	CALIFORNIA WATER SERVICE COMPANY
D.I.	DUCTILE IRON
DPH	DEPARTMENT OF PUBLIC HEALTH
DWG.	DRAWING
EXIST.	EXISTING
F.H.	FIRE HYDRANT
FLG	FLANGED
MIN.	MINIMUM
NO.	NUMBER
PE	PLAIN END
PO	PUSH-ON
PRV	PRESSURE REDUCING VALVE
PW	POTABLE WATER
RPPD	REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
RW	RECYCLED WATER
STD.	STANDARD
TYP.	TYPICAL
WBMWD	WEST BASIN MUNICIPAL WATER DISTRICT

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS INC., CALIFORNIA WATER SERVICES COMPANY STANDARD PLANS, THE CITY OF TORRANCE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, WBMWD STANDARD SPECIFICATIONS FOR PIPELINE CONSTRUCTION AND THE RECYCLED WATER URBAN IRRIGATION USER'S MANUAL, LATEST EDITIONS.
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT LEAST TWELVE INCHES (12") ABOVE GRADE, READILY ACCESSIBLE FOR FIELD TEST AND MAINTENANCE, AND AS CLOSE TO THE POTABLE WATER METER AS PRACTICAL.
- DRINKING FOUNTAINS LOCATED IN RECYCLED WATER USE AREAS SHALL BE PROTECTED FROM RECYCLED WATER SPRAY BY A COMBINATION OF SELECTIVE LOCATION OF SUCH EQUIPMENT AND BY APPROPRIATE IRRIGATION SYSTEM DESIGN AND/OR MODIFICATION.
- QUICK COUPLERS AND ELECTRICAL CONTROLLERS SHALL BE IDENTIFIED WITH THE PROPER TAGS AND LABELS. QUICK COUPLERS SHALL BE INSTALLED IN BOXES.
- EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO VERIFY AND DOCUMENT ON AS-BUILT DRAWINGS THE ACTUAL LOCATION AND ELEVATIONS IN THE FIELD OF ALL UTILITIES AND ALL POINTS OF CONNECTION. THE FIELD VERIFICATION (POTHOLING) SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY MODIFICATIONS TO THE IRRIGATION SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLANS. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR.
- ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS ARE IN NO WAY GUARANTEED.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF ALL PRIVATE FACILITIES AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- RECYCLED WATER SIGNS SHALL BE INSTALLED AT LOCATIONS AGREEABLE TO THE CITY AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. SIGNAGE SIZE AND WORDING SHALL BE APPROVED BY THE CITY OF TORRANCE. THE SIGN SHALL BE A MINIMUM OF 18"x24" IN SIZE AND INCLUDE THE WORDING AND INTERNATIONAL SYMBOL SHOWN ON FIGURE 30610-A IN TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.
- ALL CONCRETE SHALL BE 560-C-3250 UNLESS OTHERWISE SPECIFIED.
- PRIOR TO DELIVERING RECYCLED WATER TO THE PARK, A SUCCESSFUL CROSS CONNECTION AND COVERAGE TEST WILL BE REQUIRED. THE FOLLOWING AGENCIES MAY BE PARTICIPATING IN THE TESTS: WBMWD, CITY OF TORRANCE, CALIFORNIA WATER SERVICE COMPANY, COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH, STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, AND A REPRESENTATIVE FROM TETRA TECH. CONTRACTOR WILL BE REQUIRED TO SEQUENCE THEIR WORK TO ALLOW FOR THE CROSS CONNECTION AND COVERAGE TESTS PRIOR TO PERFORMING THE DISCONNECTION OF THE POTABLE WATER AND CONNECTION OF THE RECYCLED WATER TO THE EXISTING IRRIGATION SYSTEM. CONTRACTOR SHALL PROVIDE SUPPORT DURING THE TEST AND A TEMPORARY POTABLE WATER SOURCE FOR TESTING OF THE IRRIGATION SYSTEM INCLUDING TEMPORARY PIPING, RP, AND WATER METER.
- QUICK COUPLING VALVES TO BE INSTALLED ON AN IRRIGATION SYSTEM SERVICED BY RECYCLED WATER SHALL BE OF BRASS CONSTRUCTION WITH A PERMANENTLY ATTACHED PURPLE RUBBER OR VINYL COVER WITH THE WORDS "RECYCLED WATER" IMPRINTED ON THE COVER. THE VALVE SHALL BE NELSON 42 WITH A 40K KEY (ACME THREAD) OR APPROVED EQUAL.
- CONTRACTOR SHALL REPAIR ANY BROKEN IRRIGATION LINES OR CONTROL WIRES WITHIN THE AREA OF WORK AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SEED (OF THE SAME SPECIES OF GRASS).
- CONTRACTOR SHALL NOTIFY WBMWD A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO EXISTING WBMWD RECYCLED WATER FACILITIES. CONTRACTOR SHALL CONTACT GEORGE COOK AT (310) 420-8603.

SHEET INDEX

SHEET	DESCRIPTION
1	GENERAL INFORMATION
2	SITE PLAN
3	SITE DETAILS
4	DPH RECYCLED WATER GUIDELINES & DETAILS

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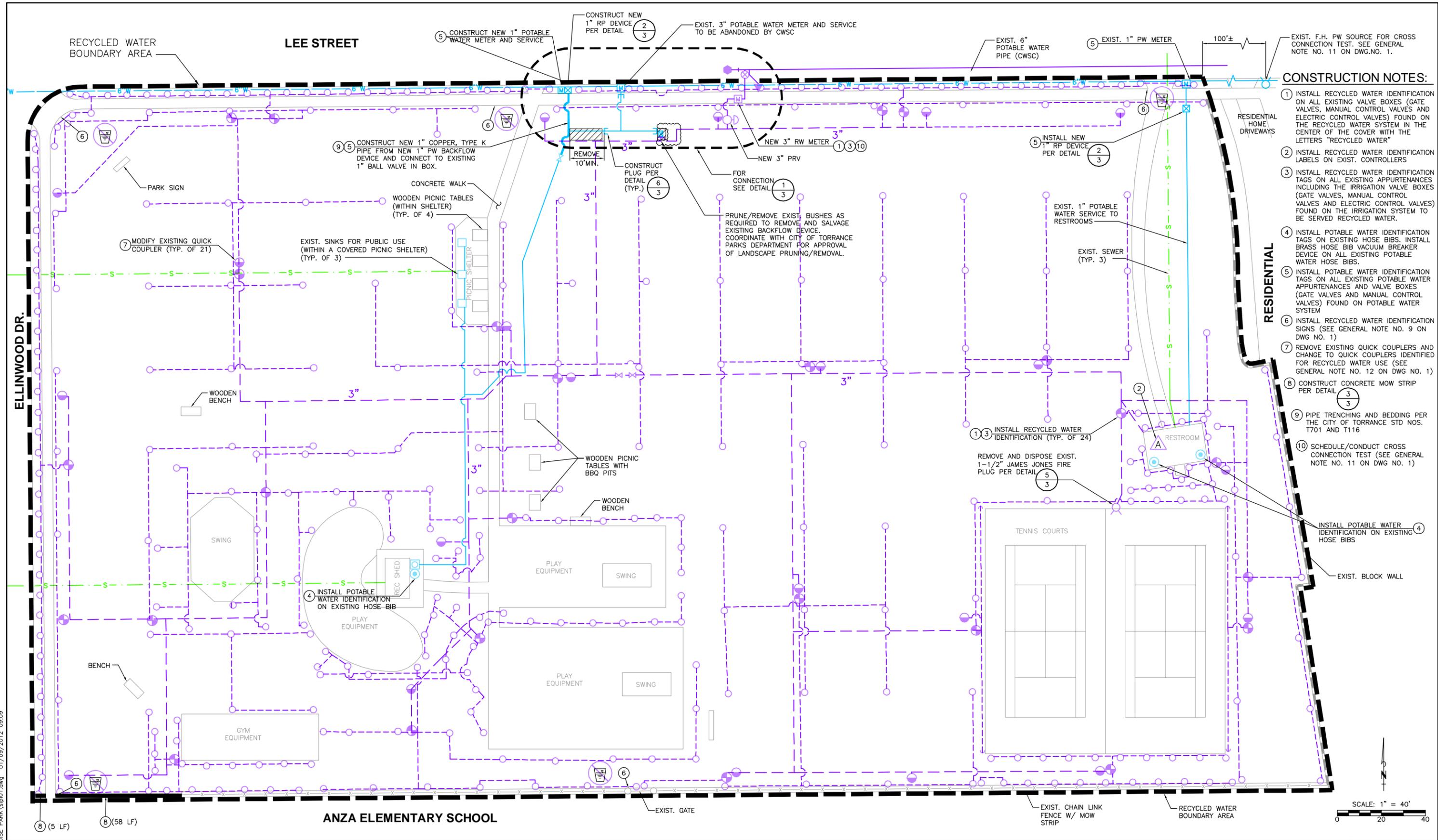


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**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

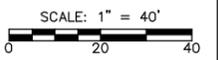
PARADISE PARK
GENERAL INFORMATION

PROJECT NO.
3915.0011.00
DWG. NO. 1 OF 4



CONSTRUCTION NOTES:

- 1 INSTALL RECYCLED WATER IDENTIFICATION ON ALL EXISTING VALVE BOXES (GATE VALVES, MANUAL CONTROL VALVES AND ELECTRIC CONTROL VALVES) FOUND ON THE RECYCLED WATER SYSTEM IN THE CENTER OF THE COVER WITH THE LETTERS "RECYCLED WATER"
- 2 INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXIST. CONTROLLERS
- 3 INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL EXISTING APPURTENANCES INCLUDING THE IRRIGATION VALVE BOXES (GATE VALVES, MANUAL CONTROL VALVES AND ELECTRIC CONTROL VALVES) FOUND ON THE IRRIGATION SYSTEM TO BE SERVED RECYCLED WATER.
- 4 INSTALL POTABLE WATER IDENTIFICATION TAGS ON EXISTING HOSE BIBS. INSTALL BRASS HOSE BIB VACUUM BREAKER DEVICE ON ALL EXISTING POTABLE WATER HOSE BIBS.
- 5 INSTALL POTABLE WATER IDENTIFICATION TAGS ON ALL EXISTING POTABLE WATER APPURTENANCES AND VALVE BOXES (GATE VALVES AND MANUAL CONTROL VALVES) FOUND ON POTABLE WATER SYSTEM
- 6 INSTALL RECYCLED WATER IDENTIFICATION SIGNS (SEE GENERAL NOTE NO. 9 ON DWG NO. 1)
- 7 REMOVE EXISTING QUICK COUPLERS AND CHANGE TO QUICK COUPLERS IDENTIFIED FOR RECYCLED WATER USE (SEE GENERAL NOTE NO. 12 ON DWG NO. 1)
- 8 CONSTRUCT CONCRETE MOW STRIP PER DETAIL 3/3
- 9 PIPE TRENCHING AND BEDDING PER THE CITY OF TORRANCE STD NOS. T701 AND T116
- 10 SCHEDULE/CONDUCT CROSS CONNECTION TEST (SEE GENERAL NOTE NO. 11 ON DWG NO. 1)



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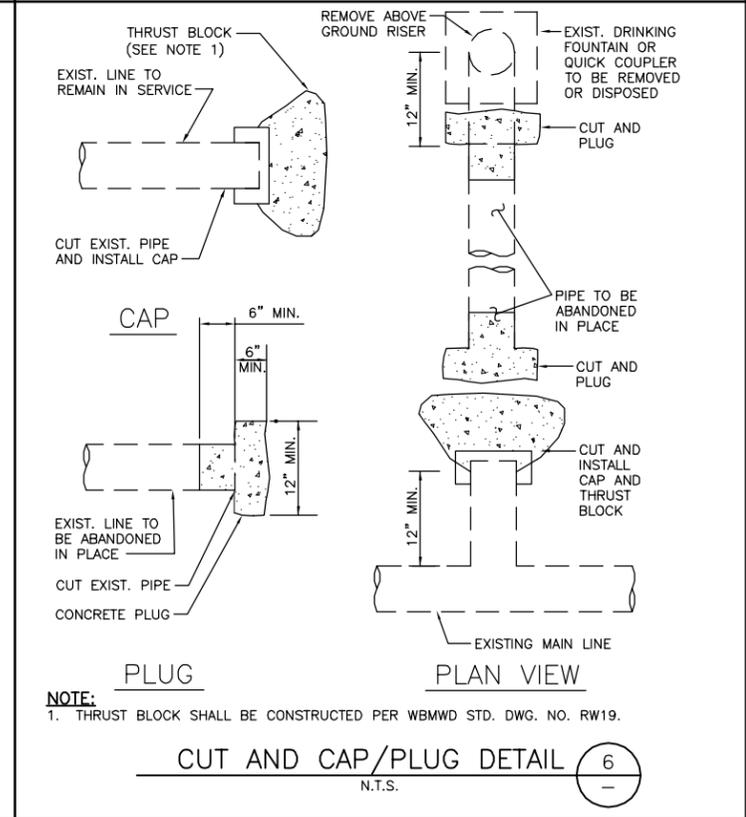
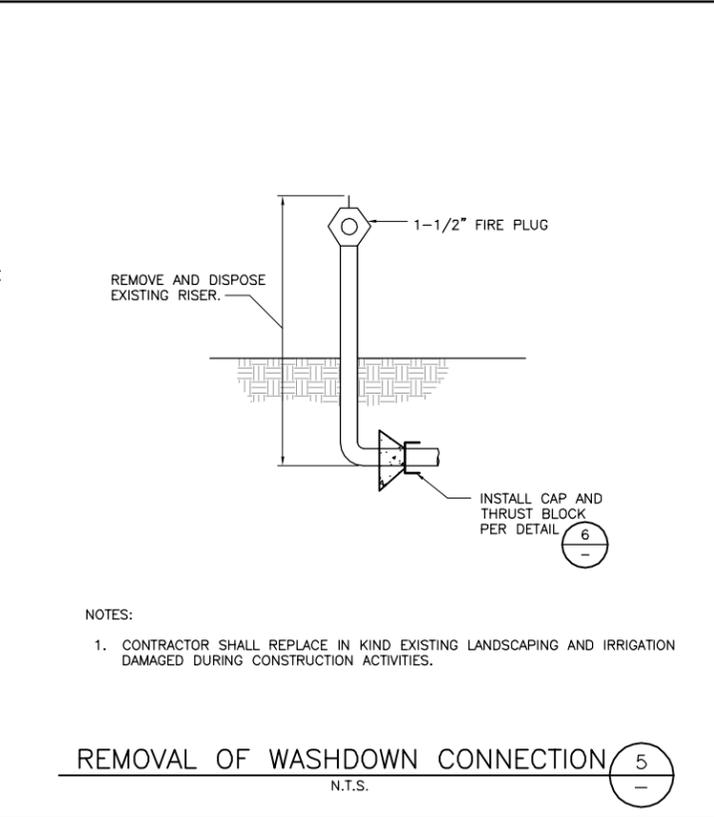
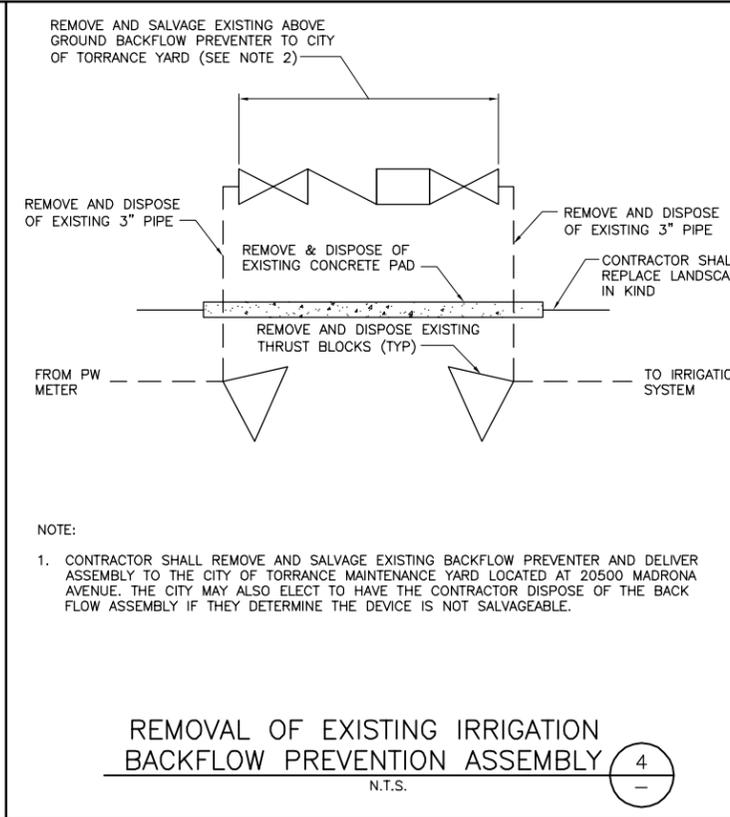
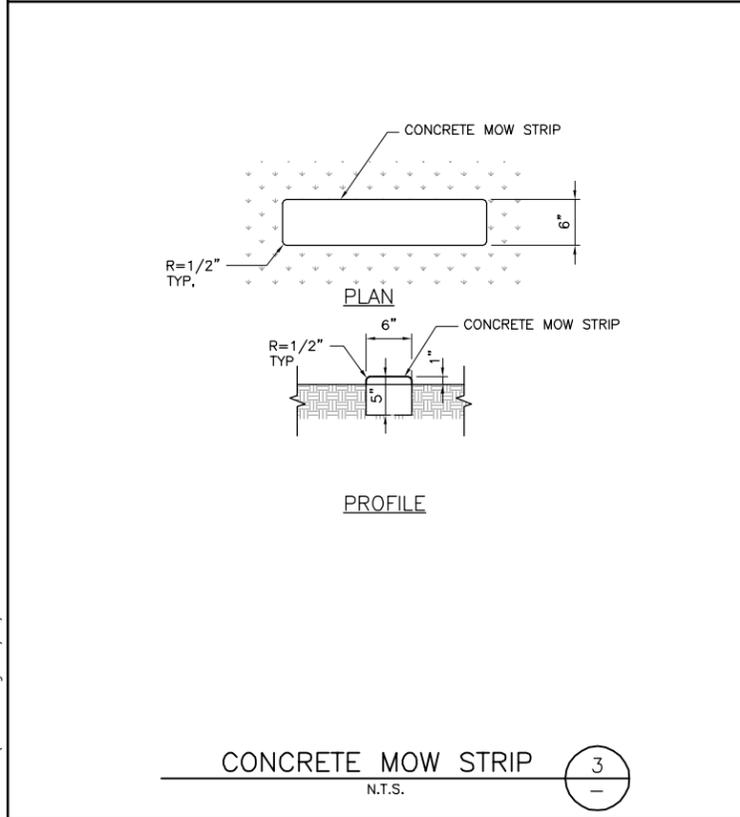
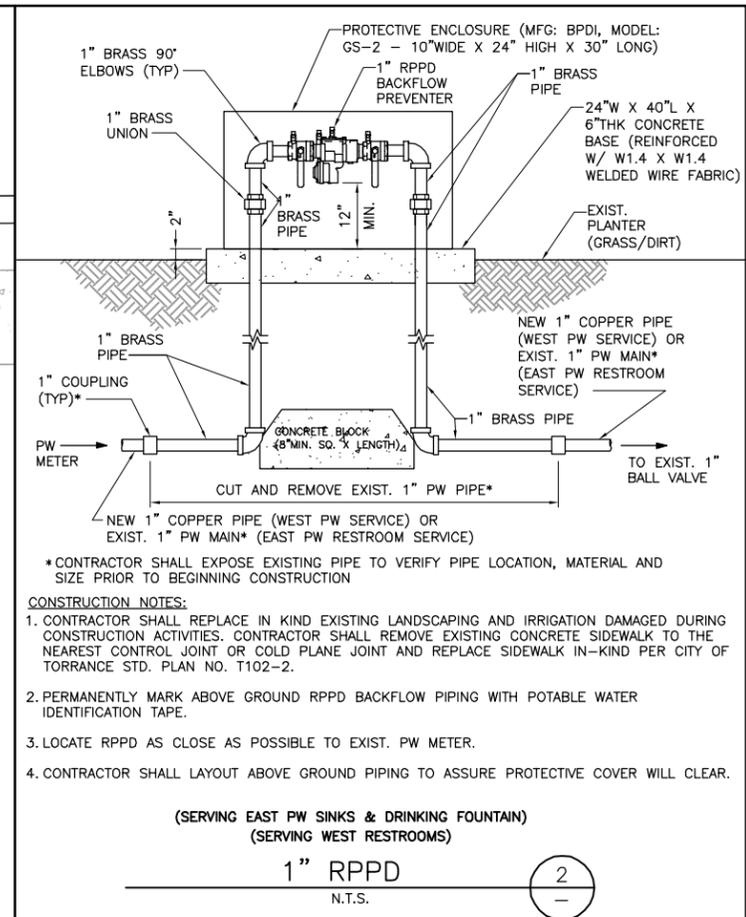
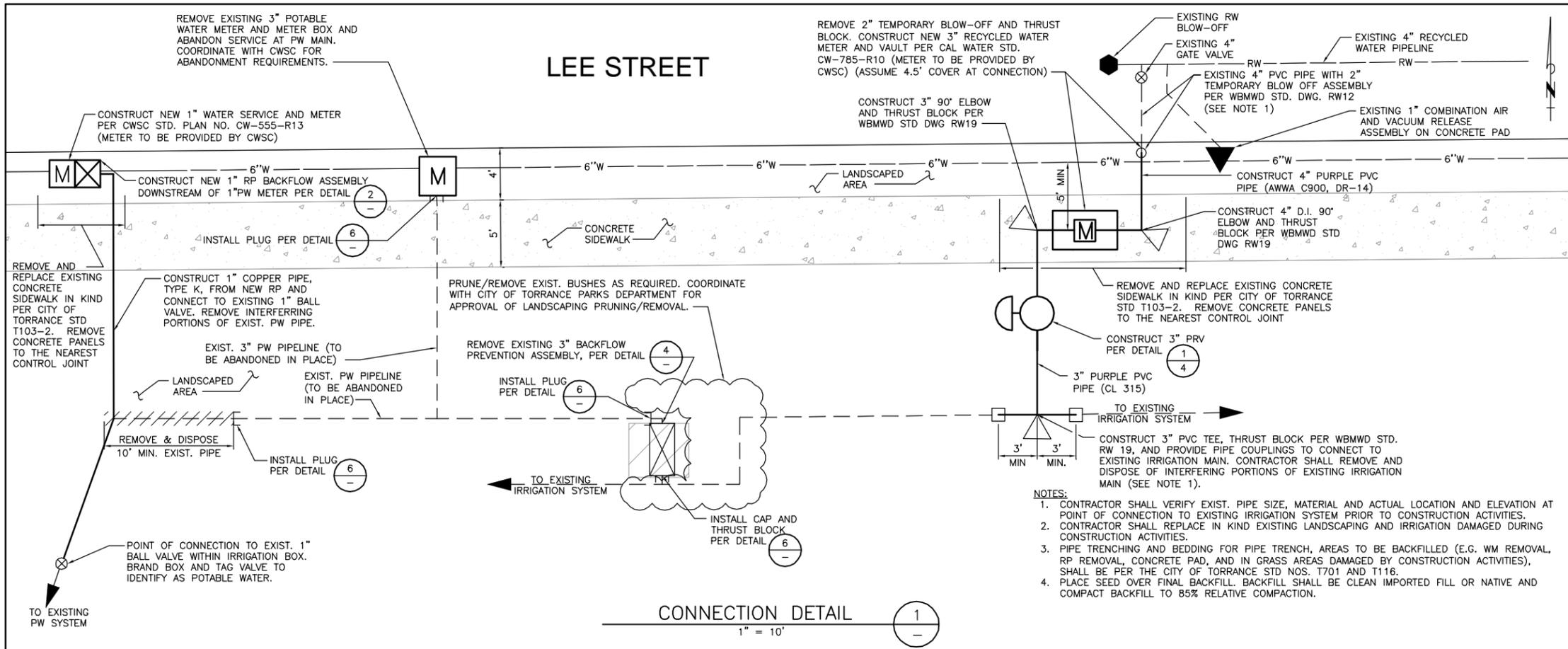


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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

**PARADISE PARK
 SITE PLAN**

PROJECT NO.
 3915.0011.00
 DWG. NO. 2 OF 4



SCALE	AS SHOWN		
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

PARADISE PARK
 SITE DETAILS

PROJECT NO.
3915.0011.00

DWG. NO. **3** OF **4**

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GUIDELINES FOR PIPELINE CONSTRUCTION AND INSTALLATION -
FOR THE SAFE USE OF RECYCLED / RECLAIMED WASTEWATER

PURPOSE: As a result of increasing availability of recycled / reclaimed wastewater and an increased need for the transmission and use thereof, the Department of Public Health - Environmental Health (the Department) has found it necessary to establish the following regulations for pipeline construction and installation as well as for the safe use of recycled / reclaimed wastewater. These regulations are intended to protect public health by ensuring the safety of our domestic potable water supplies.

BACKGROUND: A recent increase in the number of inquiries and interest displayed regarding the use of recycled / reclaimed water, in the ongoing efforts to conserve water, have necessitated the need to establish definitions, standards and regulation for the uniform review and approval of recycled / reclaimed wastewater. Recycled / reclaimed water may be used for surface irrigation of the following: food crops, parks and playgrounds; school yards; residential landscaping, and unrestricted access golf courses.

DEFINITIONS:

Gray Water means untreated wastewater that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Gray water includes water from bathtubs, showers, bathroom wash basins, clothes-washers and laundry tubs.

Non-Potable Water means water which is unfit for human or animal consumption due to contaminants that exceed the current permissible Maximum Contaminant Level (MCL) in drinking water.

Potable Water means water which is fit for consumption by humans and other animals. The U.S. Environmental Protection Agency (EPA) identifies contaminants that may adversely affect public health and occur in drinking water with a frequency and at levels that pose a threat to public health. The EPA establishes (MCLs) for both biological and chemical contaminants permissible in drinking water. These MCLs become enforceable standards that determine the potability of water.

Recycled / Reclaimed Water means non-potable water that meets or as a result of treatment, meets federal requirements for its intended uses. The level of treatment and quality of the recycled / reclaimed water shall be approved by the Authority Having Jurisdiction. Reclaimed / recycled water systems shall have no connection to any potable water system, with or without mechanical backflow prevention devices.

Revised 09/22/09

- The use of recycled / reclaimed wastewater for irrigation purposes shall minimize exposure of the wastewater spray to drinking fountains and picnic tables through selective location of equipment and by appropriate irrigation system design. Additionally, the following measures should be taken: recycled wastewater spraying shall be done during hours of least public exposure; any area where recycled wastewater is released, used or impounded should be posted, informing the public that recycled water is being used; and irrigation practices utilizing recycled water shall be controlled to prevent surface runoff.

BACKFLOW PROTECTION

- There shall be no interconnection between a potable water system and a recycled / reclaimed water system within the user's premises.
- A dye or pressure test shall be utilized to confirm the physical separation of a recycled wastewater system and a potable water system. Testing shall be performed in conjunction with the Water Purveyor and this Department and conducted before the introduction of recycled wastewater.
- An approved backflow prevention device shall be installed at the potable water service connection.
- In a recycled / reclaimed wastewater distribution system, a backflow prevention device may be required at the recycled wastewater meter or at specific on-site locations where said use could degrade the quality of the recycled wastewater supply.



RECYCLED / RECLAIMED WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN COMPLIANCE WITH APPLICABLE POTABLE WATER SYSTEM CONSTRUCTION STANDARDS AS WELL AS THOSE SPECIFIED IN "THE PURPLE BOOK", CALIFORNIA HEALTH LAWS RELATED TO RECYCLED WATER, (CALIFORNIA HEALTH AND SAFETY CODE, WATER CODE, TITLES 22 AND 17 OF THE CALIFORNIA CODE OF REGULATIONS) AND THE LOS ANGELES COUNTY CODE (LACC), TITLE 28 - PLUMBING, APPENDIX J.

PRELIMINARY REQUIREMENTS

- Plans and specifications for recycled / reclaimed wastewater distribution systems, as well as the use and operation of such systems shall be submitted to the Department for review and approval prior to construction or implementation.
- Prior to commencing construction, the Contractor shall contact the Department to schedule an inspection of the proposed on-site recycled / reclaimed and potable water work.
- No piping for potable or recycled / reclaimed water in conjunction with a specified project shall be installed prior to plan check approval and preliminary inspection.
- Upon completion of construction, no excavation or open trench may be backfilled without first securing the Department approval. Any areas backfilled without prior approval will be required to be exposed and corrected as necessary.
- Only a Department approved temporary water connection, to a potable water supply via a dedicated, approved, reduced-pressure-principle backflow prevention device shall be permitted to be utilized for the purpose of flushing, pressure testing, construction, landscape use or the final cross-connection testing.

SEPARATION REQUIREMENTS

The maximum attainable separation of recycled / reclaimed wastewater lines and potable water lines shall be enforced in order to minimize potential risks associated with pipeline breaks resulting in infiltration of wastewater from leaking wastewater lines into domestic water lines, or accidental cross-connections between recycled wastewater and potable water systems.

- Parallel Construction:** A horizontal separation of at least ten feet (10') shall be required between pressurized, buried, recycled / reclaimed and potable water piping (all distance to be measured from pipeline outside diameter).

- Cross-Over Construction:** Buried potable water pipes crossing over pressurized recycled / reclaimed water pipes shall be laid not less than twelve inches (12") above the reclaimed water pipes. Reclaimed water pipes laid in the same trench or crossing-over building sewer or drainage piping shall be installed in compliance with the LACC - Title 28, Plumbing, Sections 609.0 and 720.0.
- Unused or Abandoned Potable Water Lines:** These lines are to be severed as close to water mains as practical, capped, and a ten foot (10') section of abandoned line removed and cemented under direct supervision by the Department.
- Existing On-site Piping:** Maximum separation of recycled / reclaimed wastewater lines and potable water lines shall be maintained upon system additions or modification.

PIPELINE MATERIALS AND IDENTIFICATION

All recycled / reclaimed water pipe materials, valves and fittings shall conform to the requirements of the LACC - Title 28, Plumbing, Sections 604.0, 605.0 and 606.0.

All recycled / reclaimed wastewater lines (pressure / non-pressure), valve boxes, hydrants and appurtenances shall be identified to clearly distinguish between recycled / reclaimed wastewater, non-potable and potable water systems (as specified in LACC - Title 28, Plumbing, Appendix J).

- Recycled / Reclaimed Wastewater:** All buried, recycled, wastewater systems (pressure / non-pressure) shall utilize purple pipe with black uppercase lettering "CAUTION: RECYCLED WATER - DO NOT DRINK" printed on opposite sides of the pipe. For limited application, the use of continuous lettering on three inch (3") minimum width purple tape with one inch black or white contrasting uppercase lettering "CAUTION RECYCLED WATER - DO NOT DRINK" permanently affixed at intervals not to exceed five feet, atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. All valves, except fixture supply control valves shall be equipped with a locking feature. All mechanical equipment that is appurtenant to the recycled / reclaimed water system shall be painted purple.

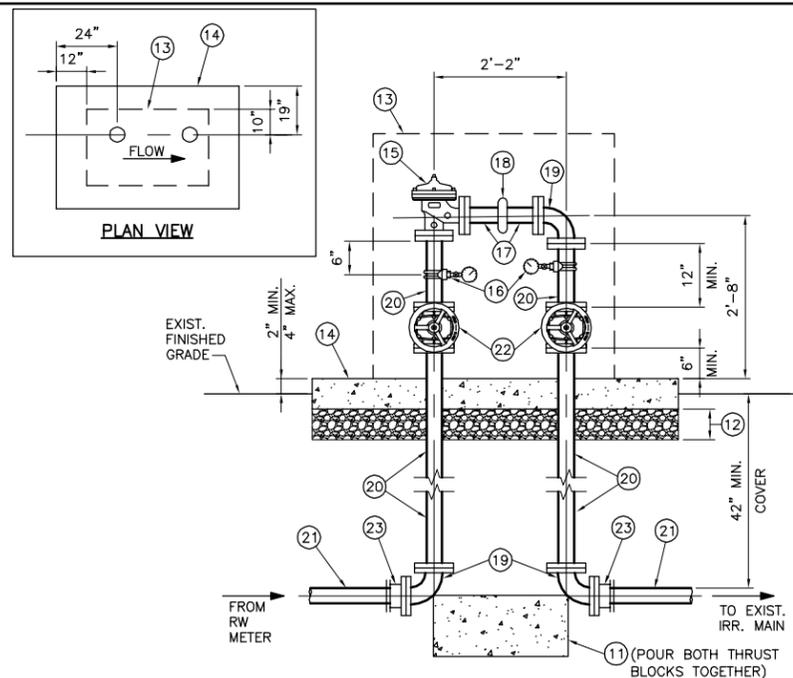
- Potable Water:** All potable water lines shall be installed in accordance with the Uniform Plumbing Code and all other applicable potable water system construction standards. All buried potable water lines shall be clearly identified by continuous lettering on three inch (3") minimum width blue tape with one inch (1") white lettering bearing the repeated wording "POTABLE WATER" permanently affixed at ten foot intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping and hydrants. Identification tape is not necessary for extruded colored PVC with continuous wording "POTABLE WATER" printed in contrasting lettering on opposite sides of the pipe.

- Non-Potable Water:** All non-potable irrigation / industrial water lines (pressure / non-pressure) shall be identified by continuous lettering on three inch (3") minimum width tape with one inch (1") contrasting lettering bearing the continuous uppercase lettering "NON-POTABLE WATER - DO NOT DRINK" permanently affixed at ten foot (10') intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. Exposed piping, valve boxes, vaults, control valves, quick coupling valves, outlets and related appurtenances shall be color-coded and labeled / tagged to differentiate between recycled / reclaimed wastewater, potable water and non-potable water systems. Tags identifying recycled / reclaimed water shall have the appropriate identification on both sides (wording on one side and symbol on the opposite side).



THE SAFE USE OF RECYCLED / RECLAIMED WATER PROTECTS POTABLE WATER

- Deteriorated or inadequately-protected well water casings shall be repaired or replaced to protect aquifers against contamination from recycled / reclaimed wastewater systems.
- An On-Site Water Supervisor shall be appointed, having the responsibility of oversight for the protection of the potable water system (provided for under Title 17, Section 7586, and California Code of Regulations). The name and position of the On-Site Water Supervisor shall be reported to the water purveyor and to the Department. This position will be responsible for the installation, operation and maintenance of the recycled / reclaimed wastewater and potable water systems; authorization of any piping changes or additions to either the potable or recycled systems; prevention of potential hazards; implementation of the regulations; and coordination with the Cross-Connection Program of the water purveyor and of this Department.
- Hose bibbs shall not be permitted in any areas of public access to recycled / reclaimed wastewater systems, to prevent unauthorized use of recycled wastewater. Quick-couplers are permitted in lieu of hose-bibb outlets but shall only be connected to recycled / reclaimed wastewater lines. Hose bibbs may be permitted in areas that are not accessible to the public, provided they are properly identified with permanently affixed tags, labels, or plates with uppercase lettering "RECYCLED WATER - DO NOT DRINK" in English.



CONSTRUCTION NOTES:

- CONSTRUCT THRUST BLOCK PER CITY OF BWMWD STD. DWG. NO. RW19
- CONSTRUCT 6" THICK LAYER OF 3/4" AGGREGATE BASE MATERIAL
- CONSTRUCT PROTECTIVE ENCLOSURE (GUARDSHACK MODEL: GS-NP-2, MFG: BPOI, 30" WIDE X 48" HIGH X 47.5" LONG OR APPROVED EQUAL) COLOR OF ENCLOSURE TO BE SELECTED BY CITY. CONTRACTOR SHALL LAYOUT PIPING SO IT WILL FIT WITHIN ENCLOSURE.
- CONSTRUCT 6" THICK CONCRETE PAD (72" LONG X 48" WIDE) REINFORCED WITH W1.4 X W1.4 WELDED WIRE FABRIC.
- CONSTRUCT 3" PRV - (ANGLE) (FLG) (CLA-VAL 90-01 OR APPROVED EQUAL) PRV SET POINTS: DOWNSTREAM PRESSURE = 80PSI** **TO BE CONFIRMED BY CITY OF TORRANCE PARKS DEPARTMENT
- CONSTRUCT 3" DOUBLE STRAP BRASS SERVICE SADDLE W/ 1" TAP (JAMES JONES J979 OR APPROVED EQUAL), 1" BRONZE BALL VALVE (JAMES JONES J-1931 OR APPROVED EQUAL), 1" X 1/2" REDUCING BUSHING (S.S.), 1/2" BRASS SNUBBER FITTING (CAJON OR APPROVED EQUAL), 4 1/2" DIA. PRESSURE GAUGE, LIQUID FILLED, 1/2" NPT CONNECTION, WITH RANGE 0-150 PSI (ASHCROFT DURAGAUGE TYPE 1279 OR APPROVED EQUAL)
- CONSTRUCT 3" D.I. PIPE (CL53) (FLG X GE)
- CONSTRUCT 3" VICTAULIC COUPLING (STYLE 31)
- CONSTRUCT 3" D.I. 90° BEND (FLG)
- CONSTRUCT 3" D.I. PIPE (CL53) (FLG)
- CONSTRUCT 3" PURPLE PVC PIPE (CL315)
- CONSTRUCT 3" RESILIENT WEDGE GATE VALVE (NRS) (FLG) WITH HANDWHEEL
- CONSTRUCT 3" FLANGED COUPLING ADAPTER (FL X PO) (ROMAC, FCA501 OR APPROVED EQUAL)

NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING LAYOUT IN ORDER TO FIT WITHIN PROPOSED PROTECTIVE ENCLOSURE. ANY DEVIATION FROM THE PIPING APPURTENANCES INDICATED SHALL REQUIRE THE CONTRACTOR TO VERIFY THE NEW APPURTENANCE WILL HAVE ADEQUATE CLEARANCE FROM THE ENCLOSURE.
- ALL PIPING, VALVES AND FITTINGS SHALL BE PAINTED WITH AN ALKYD ENAMEL PAINT SYSTEM CONSISTING OF A 2 MIL PRIME COAT AND TWO (2) COATS OF 2 MILS EACH OF HIGH GLOSS ENAMEL. COLOR SHALL BE PURPLE (PANTONE 512) FOR RECYCLED WATER RISER, PIPING AND VALVES.

3" PRV ASSEMBLY
N.T.S.



NOT USED
N.T.S.



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SCALE	AS NOTED
DATE	JANUARY 2012
FILENAME	WTD02
DESIGNED BY	CH
DRAWN BY	KMB
CHECKED BY	MWB



PLANS PREPARED BY:
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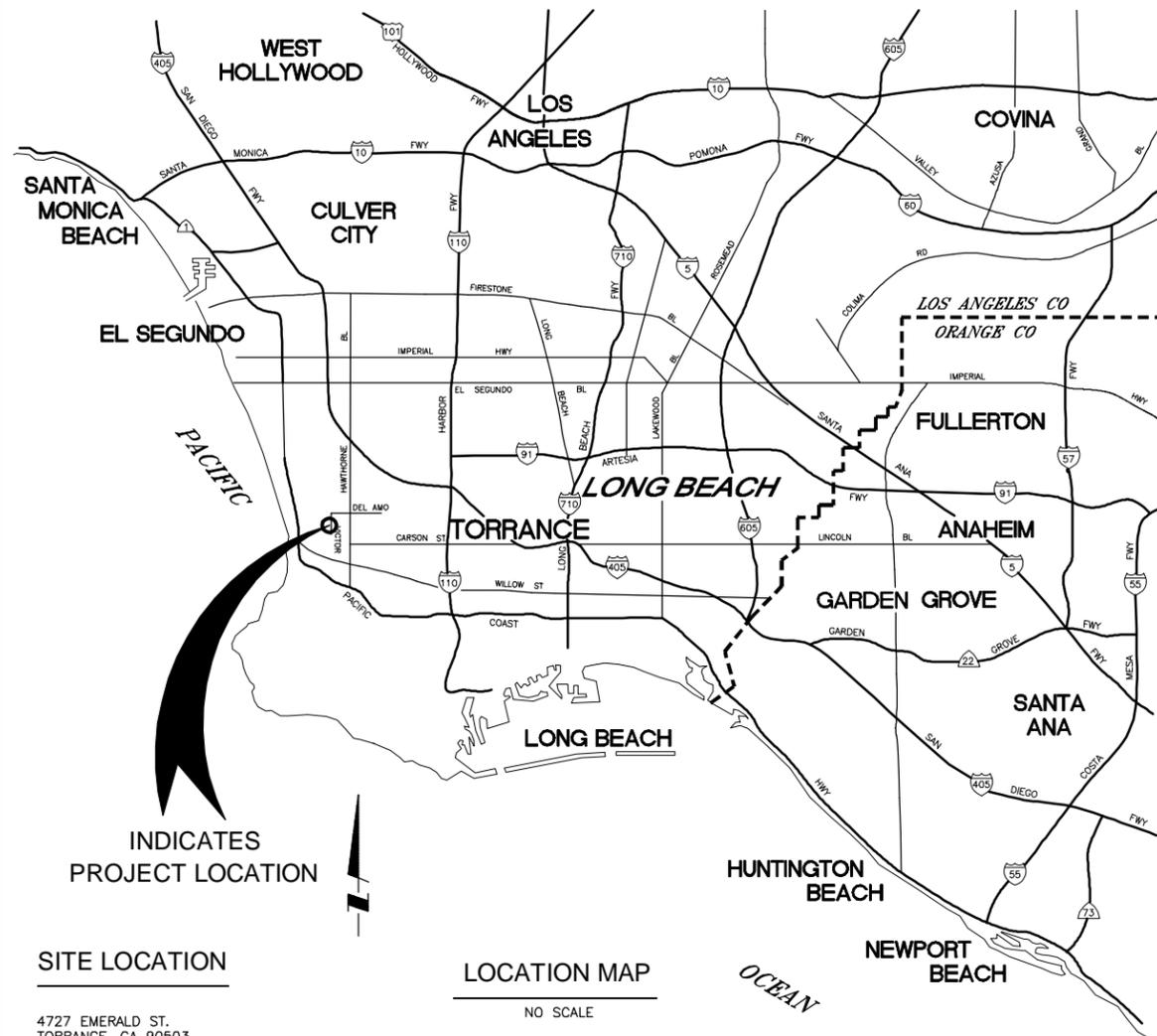
**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

PARADISE PARK
DPH RECYCLED WATER GUIDELINES & DETAILS

PROJECT NO.	3915.0011.00
DWG. NO.	4 OF 4

WEST BASIN MUNICIPAL WATER DISTRICT

RECYCLED WATER CUSTOMER DEVELOPMENT ON-SITE RETROFIT FACILITIES VICTOR PARK TORRANCE, CA JANUARY 2012



INDICATES PROJECT LOCATION

SITE LOCATION

4727 EMERALD ST.
TORRANCE, CA 90503

LOCATION MAP

NO SCALE

CONTACTS

OWNER AND SITE SUPERVISOR:	CITY OF TORRANCE MIKE WILSON, PARK SERVICES MANAGER	(310) 781-6901
WATER PURVEYOR:	CALIFORNIA WATER SERVICES COMPANY GEORGE COOK	(310) 420-8603
WEST BASIN MUNICIPAL WATER DISTRICT:	FRANK FUCHS, PROJECT MANAGER	(310) 660-6255
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH:	CARLOS BORJA	(626) 430-5295

SHEET INDEX

SHEET	DESCRIPTION
1	GENERAL INFORMATION
2	SITE PLAN
3	SITE DETAILS
4	SITE DETAILS
5	DPH RECYCLED WATER GUIDELINES

SYMBOLS AND ABBREVIATIONS

	RECYCLED WATER BOUNDARY AREA
	PROPERTY LINE
	EXIST. POTABLE WATER LINE
	EXIST. SEWER
	EXIST. RECYCLED WATER LINE
	EXIST. RECYCLED WATER MAIN IRRIGATION LINE
	EXIST. RECYCLED WATER IRRIGATION LATERAL
	EXIST. SEWER
	EXIST. OIL
	EXIST. METER
	EXIST. REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
	EXIST. DRINKING FOUNTAIN
	EXIST. ELECTRIC CONTROL VALVE
	EXIST. QUICK COUPLING VALVE
	EXIST. HOSE BIB
	EXIST. GATE VALVE
	EXIST. VACUUM BREAKER
	PRESSURE REDUCING VALVE (PRV)
	EXIST. STATION IRRIGATION CONTROLLERS - HYDRAULIC (1,2,3...) CONTROLLERS - ELECTRIC (A,B,C...)
	CAP
	FIRE HYDRANT
	RECYCLED WATER SIGN
CWSC	CALIFORNIA WATER SERVICE COMPANY
D.I.	DUCTILE IRON
DPH	DEPARTMENT OF PUBLIC HEALTH
DWG.	DRAWING
EXIST.	EXISTING
F.H.	FIRE HYDRANT
FLG	FLANGED
MV	MANUAL VALVE
MIN.	MINIMUM
NO.	NUMBER
PE	PLAIN END
PO	PUSH-ON
PRV	PRESSURE REDUCING VALVE
PW	POTABLE WATER
RPPD	REDUCED PRESSURE PRINCIPLE DEVICE BACKFLOW PREVENTER
RW	RECYCLED WATER
STD.	STANDARD
TYP.	TYPICAL
WBMWD	WEST BASIN MUNICIPAL WATER DISTRICT

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS INC., CALIFORNIA WATER SERVICES COMPANY STANDARD PLANS, THE CITY OF TORRANCE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, WBMWD STANDARD SPECIFICATIONS FOR PIPELINE CONSTRUCTION AND THE RECYCLED WATER URBAN IRRIGATION USER'S MANUAL, LATEST EDITIONS.
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AT LEAST TWELVE INCHES (12") ABOVE GRADE, READILY ACCESSIBLE FOR FIELD TEST AND MAINTENANCE, AND AS CLOSE TO THE POTABLE WATER METER AS PRACTICAL.
- DRINKING FOUNTAINS LOCATED IN RECYCLED WATER USE AREAS SHALL BE PROTECTED FROM RECYCLED WATER SPRAY BY A COMBINATION OF SELECTIVE LOCATION OF SUCH EQUIPMENT AND BY APPROPRIATE IRRIGATION SYSTEM DESIGN AND/OR MODIFICATION.
- QUICK COUPLERS AND ELECTRICAL CONTROLLERS SHALL BE IDENTIFIED WITH THE PROPER TAGS AND LABELS. QUICK COUPLERS SHALL BE INSTALLED IN BOXES.
- EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO VERIFY AND DOCUMENT ON AS-BUILT DRAWINGS THE ACTUAL LOCATION AND ELEVATIONS IN THE FIELD OF ALL UTILITIES AND ALL POINTS OF CONNECTION. THE FIELD VERIFICATION (POTHOLING) SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY MODIFICATIONS TO THE IRRIGATION SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLANS. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR.
- ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS ARE IN NO WAY GUARANTEED.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF ALL PRIVATE FACILITIES AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
- RECYCLED WATER SIGNS SHALL BE INSTALLED AT LOCATIONS AGREEABLE TO THE CITY AND DPH. SIGNS MAY BE MOUNTED ON POLES, ATTACHED TO EXISTING FENCES, BUILDINGS, OR EXISTING POLE MOUNTED SIGNS. SIGNAGE SIZE AND WORDING SHALL BE APPROVED BY THE CITY OF TORRANCE. THE SIGN SHALL BE A MINIMUM OF 18"x24" IN SIZE AND INCLUDE THE WORDING AND INTERNATIONAL SYMBOL SHOWN ON FIGURE 30610-A IN TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.
- ALL CONCRETE SHALL BE 560-C-3250 UNLESS OTHERWISE SPECIFIED.
- PRIOR TO DELIVERING RECYCLED WATER TO THE PARK, A SUCCESSFUL CROSS CONNECTION AND COVERAGE TEST WILL BE REQUIRED. THE FOLLOWING AGENCIES MAY BE PARTICIPATING IN THE TESTS: WBMWD, CITY OF TORRANCE, CALIFORNIA WATER SERVICE COMPANY, COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC HEALTH, STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES, AND A REPRESENTATIVE FROM TETRA TECH. CONTRACTOR WILL BE REQUIRED TO SEQUENCE THEIR WORK TO ALLOW FOR THE CROSS CONNECTION AND COVERAGE TESTS PRIOR TO PERFORMING THE DISCONNECTION OF THE POTABLE WATER AND CONNECTION OF THE RECYCLED WATER TO THE EXISTING IRRIGATION SYSTEM. CONTRACTOR SHALL PROVIDE SUPPORT DURING THE TEST AND A TEMPORARY POTABLE WATER SOURCE FOR TESTING OF THE IRRIGATION SYSTEM INCLUDING TEMPORARY PIPING, RP, AND WATER METER.
- QUICK COUPLING VALVES TO BE INSTALLED ON AN IRRIGATION SYSTEM SERVICED BY RECYCLED WATER SHALL BE OF BRASS CONSTRUCTION WITH A PERMANENTLY ATTACHED PURPLE RUBBER OR VINYL COVER WITH THE WORDS "RECYCLED WATER" IMPRINTED ON THE COVER. THE VALVE SHALL BE NELSON 42 WITH A 40K KEY (ACME THREAD) OR APPROVED EQUAL.
- CONTRACTOR SHALL REPAIR ANY BROKEN IRRIGATION LINES OR CONTROL WIRES WITHIN THE AREA OF WORK AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH SEED (OF THE SAME SPECIES OF GRASS).
- CONTRACTOR SHALL NOTIFY WBMWD A MINIMUM OF 48 HOURS PRIOR TO CONNECTION TO EXISTING WBMWD RECYCLED WATER FACILITIES. CONTRACTOR SHALL CONTACT GEORGE COOK AT (310) 420-8603.

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FILENAME	WTTLO1
DESIGNED BY	CH
DRAWN BY	KMB
CHECKED BY	MWB



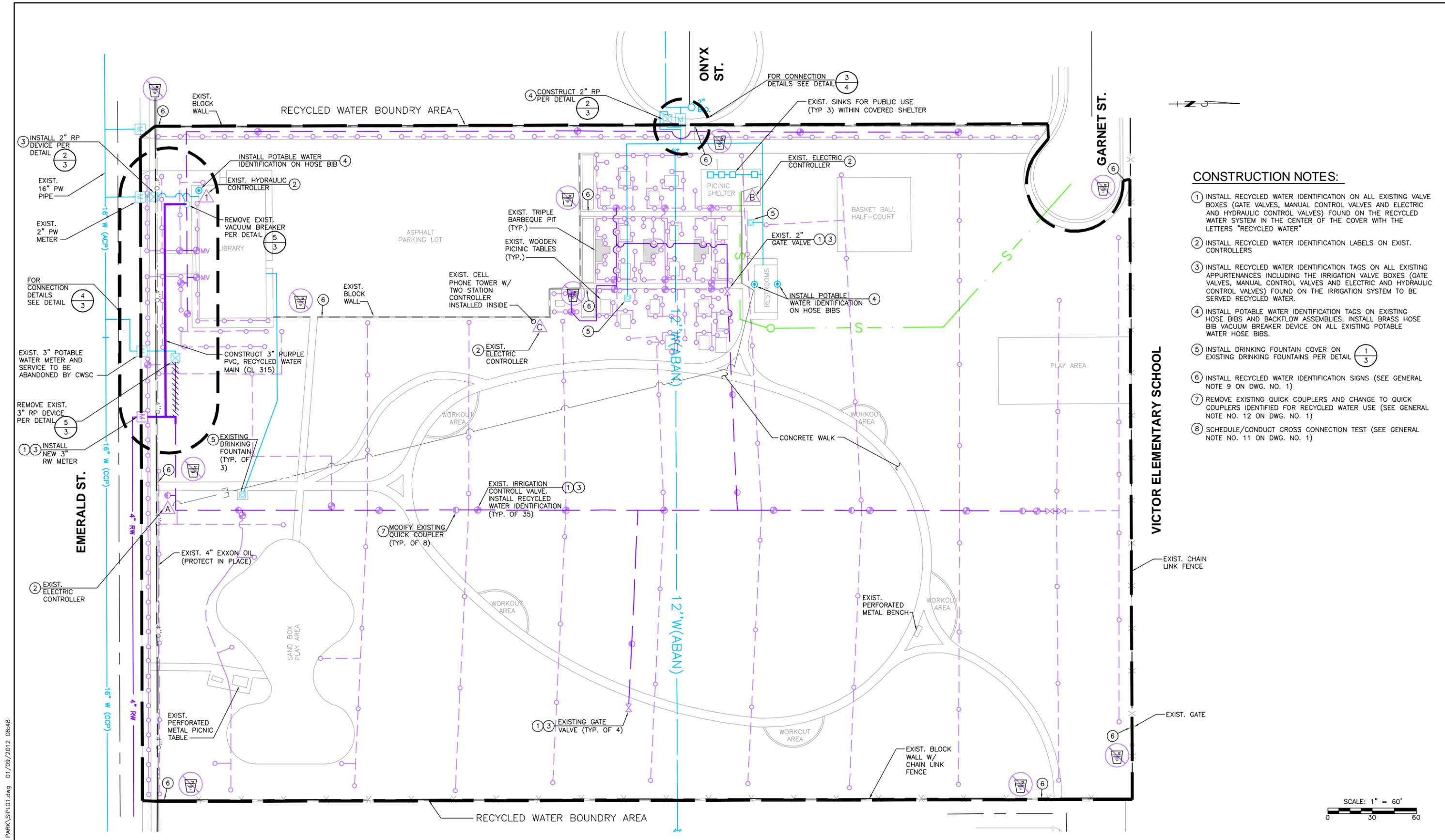
PLANS PREPARED BY:
TETRA TECH, INC.
17885 Von Karman Avenue, Suite 500
Irvine, California 92614
(949) 809-5000
(949) 809-5010 FAX

**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

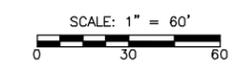
VICTOR PARK
GENERAL INFORMATION

PROJECT NO.	3915.0011.00
DWG. NO.	1 OF 5

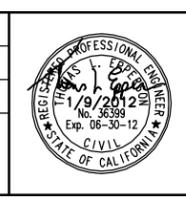
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- CONSTRUCTION NOTES:**
- 1 INSTALL RECYCLED WATER IDENTIFICATION ON ALL EXISTING VALVE BOXES (GATE VALVES, MANUAL CONTROL VALVES AND ELECTRIC AND HYDRAULIC CONTROL VALVES) FOUND ON THE RECYCLED WATER SYSTEM IN THE CENTER OF THE COVER WITH THE LETTERS "RECYCLED WATER"
 - 2 INSTALL RECYCLED WATER IDENTIFICATION LABELS ON EXIST. CONTROLLERS
 - 3 INSTALL RECYCLED WATER IDENTIFICATION TAGS ON ALL EXISTING APPURTENANCES INCLUDING THE IRRIGATION VALVE BOXES (GATE VALVES, MANUAL CONTROL VALVES AND ELECTRIC AND HYDRAULIC CONTROL VALVES) FOUND ON THE IRRIGATION SYSTEM TO BE SERVED RECYCLED WATER.
 - 4 INSTALL POTABLE WATER IDENTIFICATION TAGS ON EXISTING HOSE BIBS AND BACKFLOW ASSEMBLIES. INSTALL BRASS HOSE BIB VACUUM BREAKER DEVICE ON ALL EXISTING POTABLE WATER HOSE BIBS.
 - 5 INSTALL DRINKING FOUNTAIN COVER ON EXISTING DRINKING FOUNTAINS PER DETAIL 1/3
 - 6 INSTALL RECYCLED WATER IDENTIFICATION SIGNS (SEE GENERAL NOTE 9 ON DWG. NO. 1)
 - 7 REMOVE EXISTING QUICK COUPLERS AND CHANGE TO QUICK COUPLERS IDENTIFIED FOR RECYCLED WATER USE (SEE GENERAL NOTE NO. 12 ON DWG. NO. 1)
 - 8 SCHEDULE/CONDUCT CROSS CONNECTION TEST (SEE GENERAL NOTE NO. 11 ON DWG. NO. 1)



REV	DESCRIPTION	ENGR	DATE	APPD	DATE



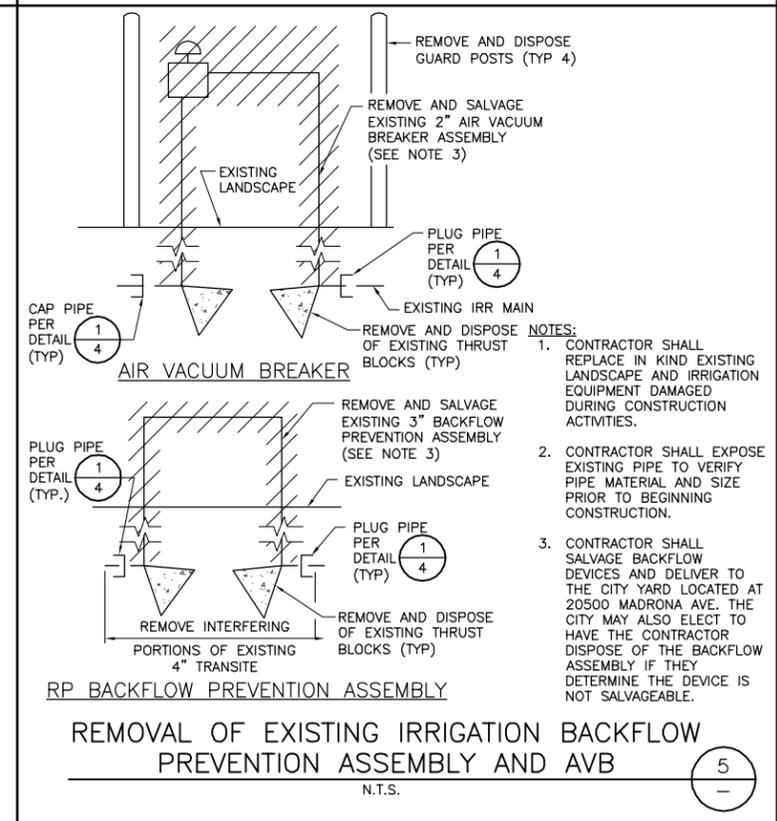
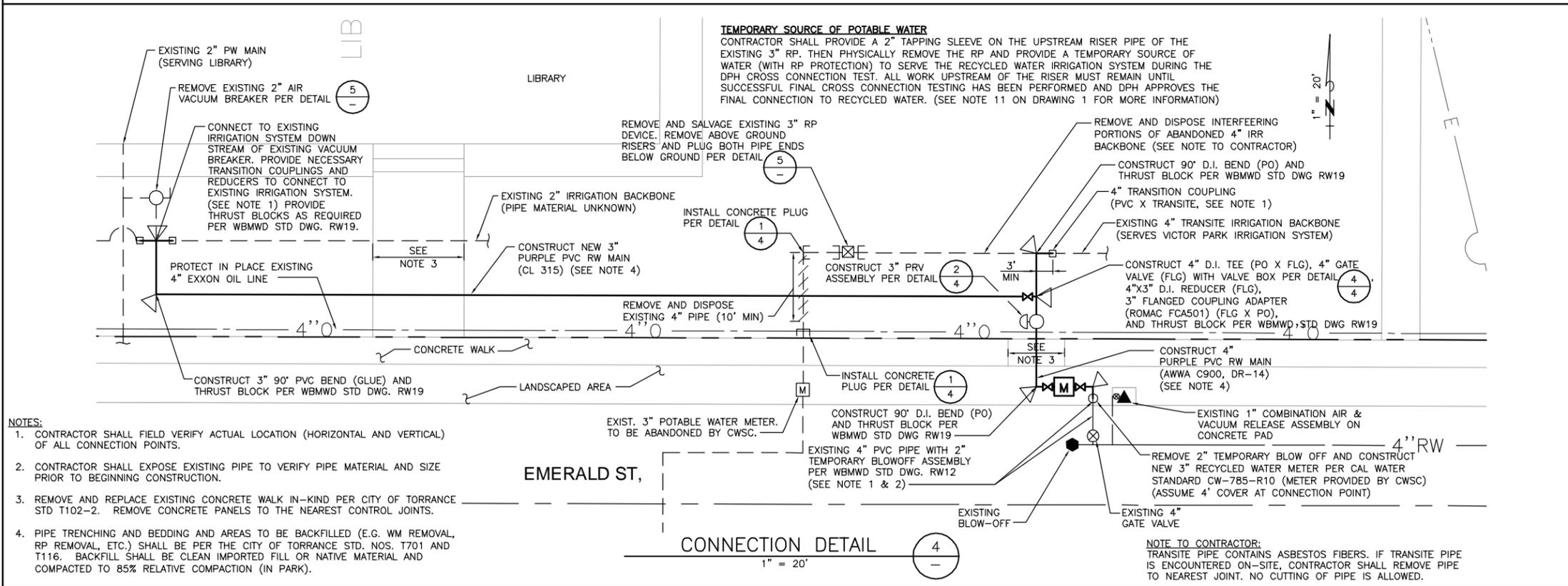
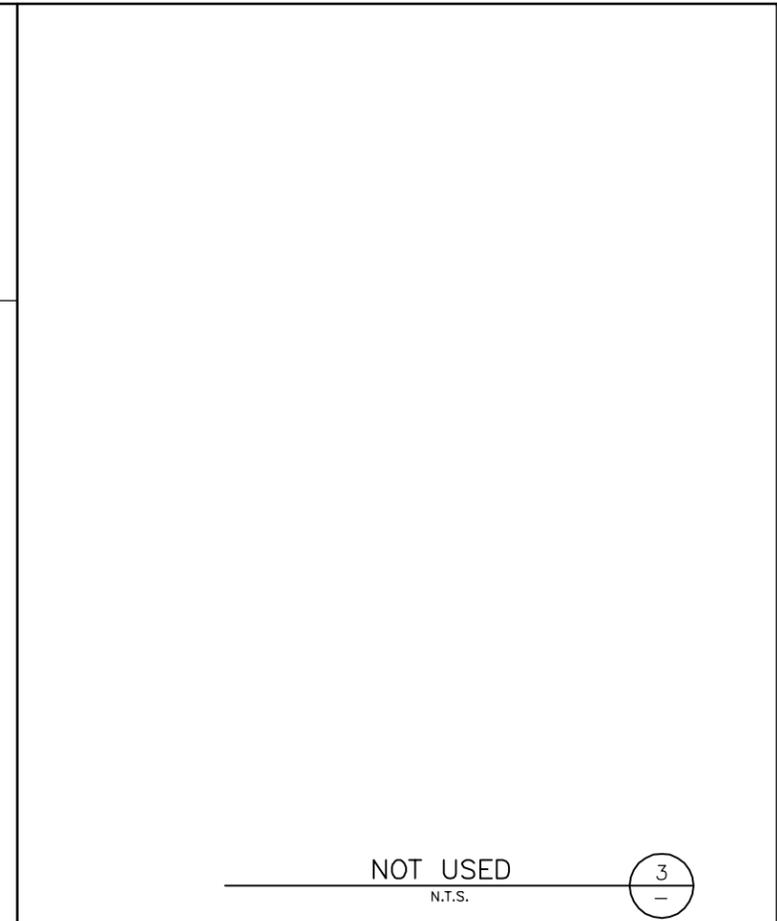
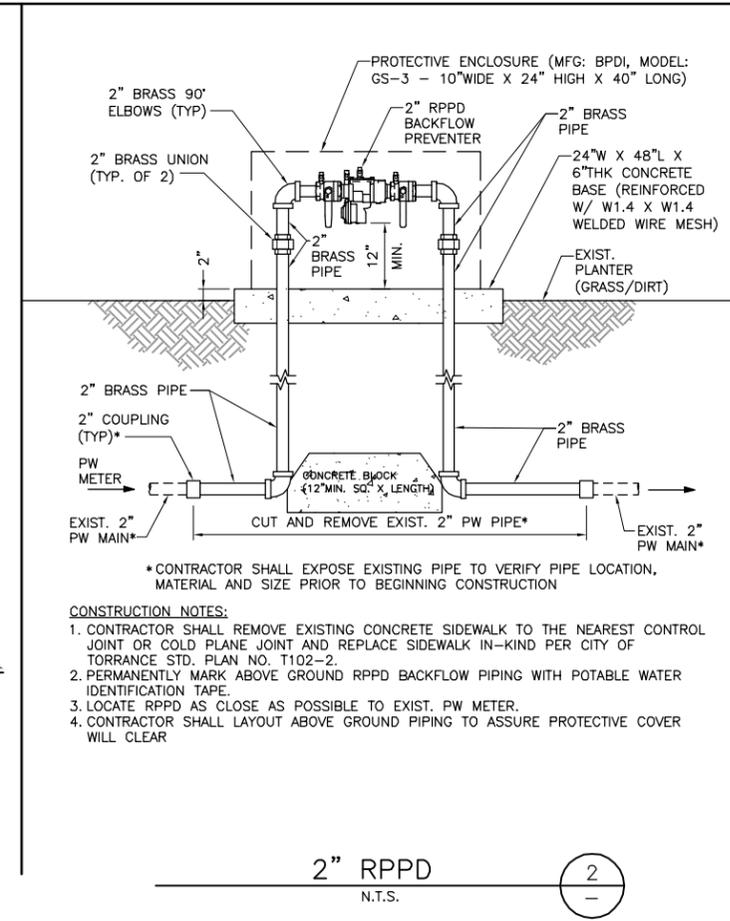
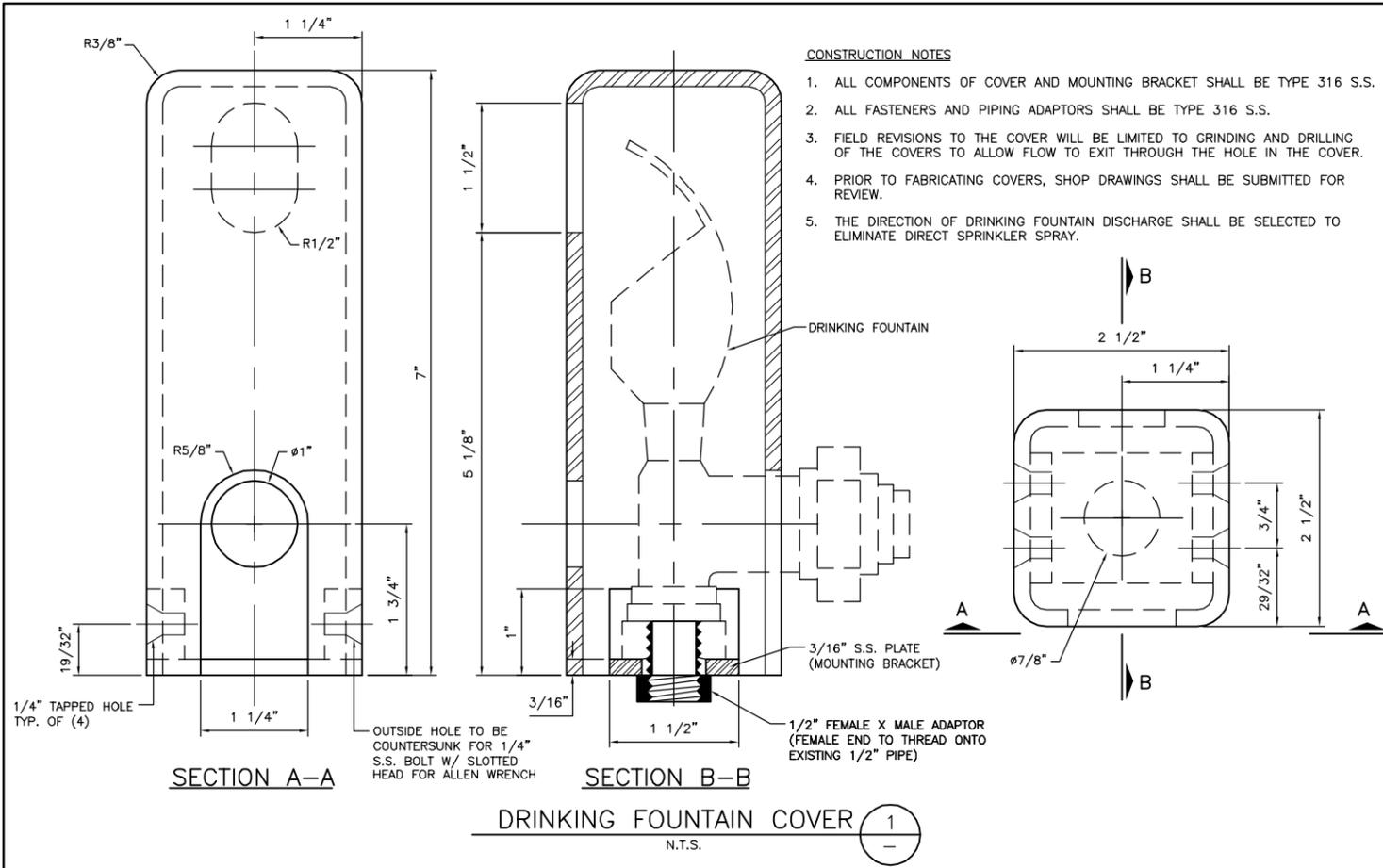
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**WEST BASIN MUNICIPAL
 WATER DISTRICT**
 EXPANDING RECYCLED WATER SERVICE

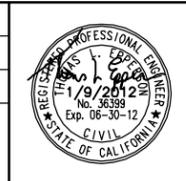
**VICTOR PARK
 SITE PLAN**

PROJECT NO.
3915.0011.00

DWG. NO. 2 OF 5



SCALE	AS SHOWN		
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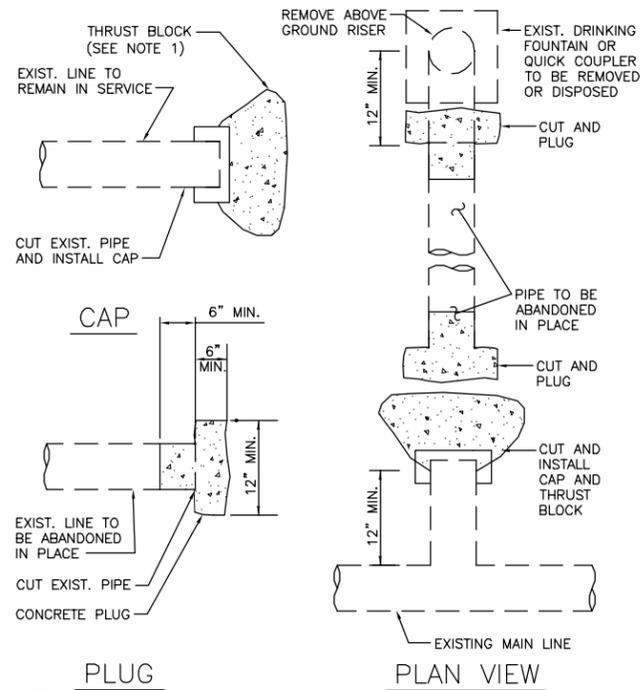
PLANS PREPARED BY:
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WEST BASIN MUNICIPAL WATER DISTRICT
 EXPANDING RECYCLED WATER SERVICE

VICTOR PARK SITE DETAILS

PROJECT NO.	3915.0011.00
DWG. NO.	3 OF 5

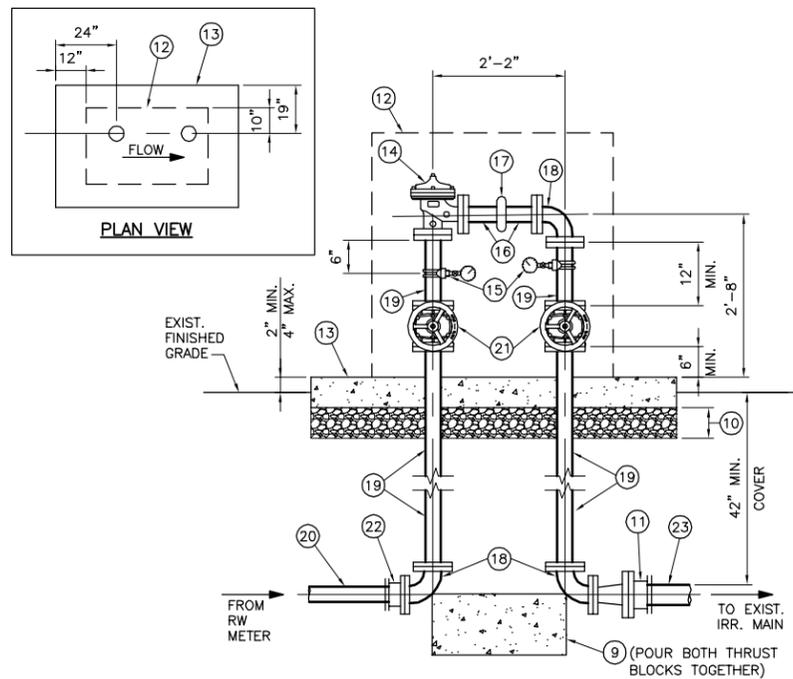
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NOTE:
1. THRUST BLOCK SHALL BE CONSTRUCTED PER WBMWD STD. DWG. NO. RW19.

CUT AND CAP/PLUG DETAIL

N.T.S.

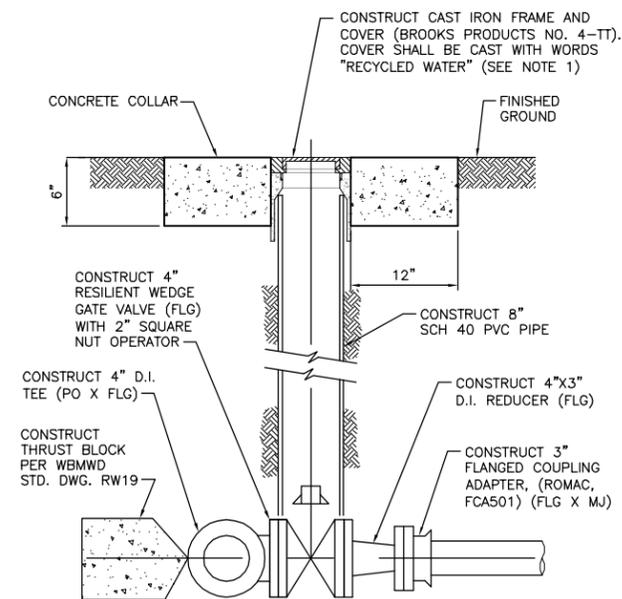


- CONSTRUCTION NOTES:**
- 9 CONSTRUCT THRUST BLOCK PER CITY OF WBMWD STD. DWG. NO RW19
 - 10 CONSTRUCT 6" THICK LAYER OF 3/4" AGGREGATE BASE MATERIAL
 - 11 CONSTRUCT 4" FLANGED COUPLING ADAPTER (FL X PO) (ROMAC, FCA501 OR APPROVED EQUAL)
 - 12 CONSTRUCT PROTECTIVE ENCLOSURE (GUARDSHACK MODEL: GS-NP-2, MFG: BPCI, 30" WIDE X 48" HIGH X 47.5" LONG OR APPROVED EQUAL) COLOR OF ENCLOSURE TO BE SELECTED BY CITY. CONTRACTOR SHALL LAYOUT PIPING SO IT WILL FIT WITHIN ENCLOSURE.
 - 13 CONSTRUCT 6" THICK CONCRETE PAD (72" LONG X 48" WIDE) REINFORCED WITH W1.4 X W1.4 WELDED WIRE FABRIC.
 - 14 CONSTRUCT 3" PRV - (ANGLE) (FLG) (CLA-VAL 90-01 OR APPROVED EQUAL) PRV SET POINTS:
DOWNSTREAM PRESSURE = 80PSI**
**TO BE CONFIRMED BY CITY OF TORRANCE PARKS DEPARTMENT
 - 15 CONSTRUCT 3" DOUBLE STRAP BRASS SERVICE SADDLE W/ 1" TAP (JAMES JONES J979 OR APPROVED EQUAL), 1" BRONZE BALL VALVE (JAMES JONES J-1931 OR APPROVED EQUAL), 1"x1/2" REDUCING BUSHING (S.S.), 1/2" BRASS SNUBBER FITTING (CAJON OR APPROVED EQUAL), 4/8" DIA. PRESSURE GAUGE, LIQUID FILLED, 1/2" NPT CONNECTION, WITH RANGE 0-150 PSI (ASHCROFT DURAGAUGE TYPE 1279 OR APPROVED EQUAL)
 - 16 CONSTRUCT 3" D.I. PIPE (CL53) (FLG X GE)
 - 17 CONSTRUCT 3" VICTAULIC COUPLING (STYLE 31)
 - 18 CONSTRUCT 3" D.I. 90° BEND (FLG)
 - 19 CONSTRUCT 3" D.I. PIPE (CL53) (FLG)
 - 20 CONSTRUCT 3" PURPLE PVC PIPE (CL315)
 - 21 CONSTRUCT 3" RESILIENT WEDGE GATE VALVE (NRS) (FLG) WITH HANDWHEEL
 - 22 CONSTRUCT 3" FLANGED COUPLING ADAPTER (FL X PO) (ROMAC, FCA501 OR APPROVED EQUAL)
 - 23 CONSTRUCT 4" PURPLE PVC PIPE (AWWA C900-DR-14)

- NOTES:**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR PIPING LAYOUT IN ORDER TO FIT WITHIN PROPOSED PROTECTIVE ENCLOSURE. ANY DEVIATION FROM THE PIPING APPURTENANCES INDICATED SHALL REQUIRE THE CONTRACTOR TO VERIFY THE NEW APPURTENANCE WILL HAVE ADEQUATE CLEARANCE FROM THE ENCLOSURE.
 2. ALL PIPING, VALVES AND FITTINGS SHALL BE PAINTED WITH AN ALKYD ENAMEL PAINT SYSTEM CONSISTING OF A 2 MIL PRIME COAT AND TWO (2) COATS OF 2 MILS EACH OF HIGH GLOSS ENAMEL. COLOR SHALL BE PURPLE (PANTONE 512) FOR RECYCLED WATER RISER, PIPING AND VALVES.

3" PRV ASSEMBLY

N.T.S.



NOTES:
1. FRAME AND COVER SHALL BE PAINTED PURPLE (PANTONE 512).

VALVE BOX AND COVER DETAIL

N.T.S.



NOT USED

N.T.S.



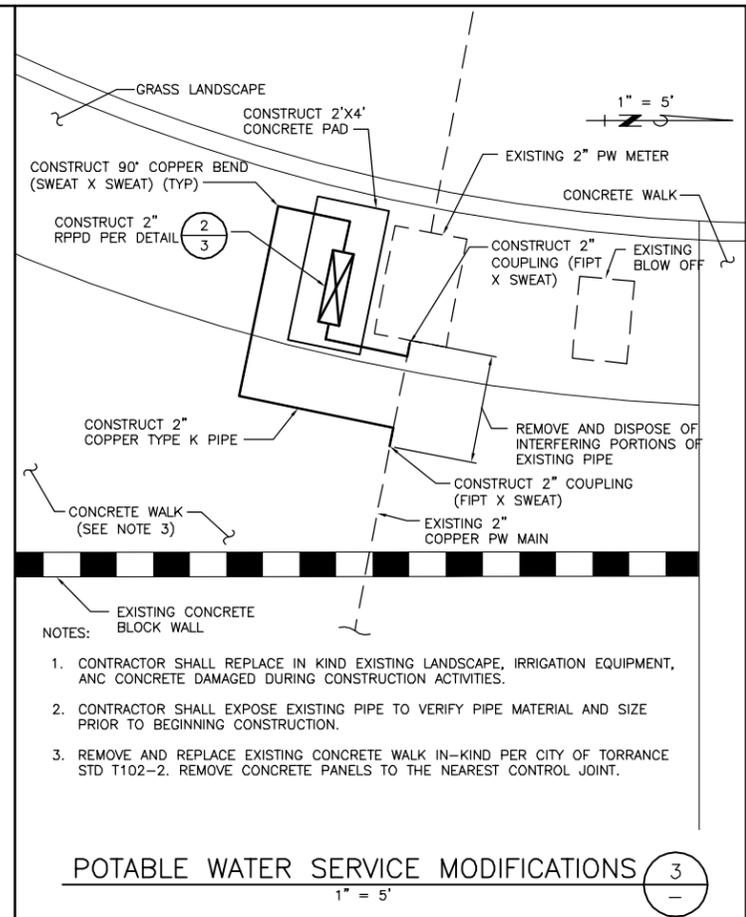
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NOT USED

N.T.S.



- NOTES:**
1. CONTRACTOR SHALL REPLACE IN KIND EXISTING LANDSCAPE, IRRIGATION EQUIPMENT, AND CONCRETE DAMAGED DURING CONSTRUCTION ACTIVITIES.
 2. CONTRACTOR SHALL EXPOSE EXISTING PIPE TO VERIFY PIPE MATERIAL AND SIZE PRIOR TO BEGINNING CONSTRUCTION.
 3. REMOVE AND REPLACE EXISTING CONCRETE WALK IN-KIND PER CITY OF TORRANCE STD T102-2. REMOVE CONCRETE PANELS TO THE NEAREST CONTROL JOINT.

POTABLE WATER SERVICE MODIFICATIONS

1" = 5'



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SCALE	AS SHOWN
DATE	JANUARY 2012
FILENAME	WTD03
DESIGNED BY	CH
DRAWN BY	CH
CHECKED BY	MWB



PLANS PREPARED BY:
TETRA TECH, INC.
17885 Von Karman Avenue, Suite 500
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**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

VICTOR PARK
SITE DETAILS

PROJECT NO.
3915.0011.00

DWG. NO. 4 OF 5



GUIDELINES FOR PIPELINE CONSTRUCTION AND INSTALLATION -
FOR THE SAFE USE OF RECYCLED / RECLAIMED WASTEWATER

PURPOSE: As a result of increasing availability of recycled / reclaimed wastewater and an increased need for the transmission and use thereof, the Department of Public Health – Environmental Health (the Department) has found it necessary to establish the following regulations for pipeline construction and installation as well as for the safe use of recycled / reclaimed wastewater. These regulations are intended to protect public health by ensuring the safety of our domestic potable water supplies.

BACKGROUND: A recent increase in the number of inquiries and interest displayed regarding the use of recycled / reclaimed water, in the ongoing efforts to conserve water, have necessitated the need to establish definitions, standards and regulation for the uniform review and approval of recycled / reclaimed wastewater. Recycled / reclaimed water may be used for surface irrigation of the following: food crops, parks and playgrounds; school yards; residential landscaping; and unrestricted access golf courses.

DEFINITIONS:

Gray Water means untreated wastewater that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Gray water includes water from bathtubs, showers, bathroom wash basins, clothes-washers and laundry tubs.

Non-Potable Water means water which is unfit for human or animal consumption due to contaminants that exceed the current permissible Maximum Contaminant Level (MCL) in drinking water.

Potable Water means water which is fit for consumption by humans and other animals. The U.S. Environmental Protection Agency (EPA) identifies contaminants that may adversely affect public health and occur in drinking water with a frequency and at levels that pose a threat to public health. The EPA establishes (MCLs) for both biological and chemical contaminants permissible in drinking water. These MCLs become enforceable standards that determine the potability of water.

Recycled / Reclaimed Water means non-potable water that meets or as a result of treatment, meets federal requirements for its intended uses. The level of treatment and quality of the recycled / reclaimed water shall be approved by the Authority Having Jurisdiction. Reclaimed / recycled water systems shall have no connection to any potable water system, with or without mechanical backflow prevention devices.

Revised 09/22/09

- The use of recycled / reclaimed wastewater for irrigation purposes shall minimize exposure of the wastewater spray to drinking fountains and picnic tables through selective location of equipment and by appropriate irrigation system design. Additionally, the following measures should be taken: recycled wastewater spraying shall be done during hours of least public exposure; any area where recycled wastewater is released, used or impounded should be posted, informing the public that recycled water is being used; and irrigation practices utilizing recycled water shall be controlled to prevent surface runoff.

BACKFLOW PROTECTION

- There shall be no interconnection between a potable water system and a recycled / reclaimed water system within the user's premises.
- A dye or pressure test shall be utilized to confirm the physical separation of a recycled wastewater system and a potable water system. Testing shall be performed in conjunction with the Water Purveyor and this Department and conducted before the introduction of recycled wastewater.
- An approved backflow prevention device shall be installed at the potable water service connection.
- In a recycled / reclaimed wastewater distribution system, a backflow prevention device may be required at the recycled wastewater meter or at specific on-site locations where said use could degrade the quality of the recycled wastewater supply.



RECYCLED / RECLAIMED WASTEWATER SYSTEMS SHALL BE CONSTRUCTED IN COMPLIANCE WITH APPLICABLE POTABLE WATER SYSTEM CONSTRUCTION STANDARDS AS WELL AS THOSE SPECIFIED IN "THE PURPLE BOOK", CALIFORNIA HEALTH LAWS RELATED TO RECYCLED WATER, (CALIFORNIA HEALTH AND SAFETY CODE, WATER CODE, TITLES 22 AND 17 OF THE CALIFORNIA CODE OF REGULATIONS) AND THE LOS ANGELES COUNTY CODE (LACC), TITLE 28 – PLUMBING, APPENDIX J.

PRELIMINARY REQUIREMENTS

- Plans and specifications for recycled / reclaimed wastewater distribution systems, as well as the use and operation of such systems shall be submitted to the Department for review and approval prior to construction or implementation.
- Prior to commencing construction, the Contractor shall contact the Department to schedule an inspection of the proposed on-site recycled / reclaimed and potable water work.
- No piping for potable or recycled / reclaimed water in conjunction with a specified project shall be installed prior to plan check approval and preliminary inspection.
- Upon completion of construction, no excavation or open trench may be backfilled without first securing the Department approval. Any areas backfilled without prior approval will be required to be exposed and corrected as necessary.
- Only a Department approved temporary water connection, to a potable water supply via a dedicated, approved, reduced-pressure-principle backflow prevention device shall be permitted to be utilized for the purpose of flushing, pressure testing, construction, landscape use or the final cross-connection testing.

SEPARATION REQUIREMENTS

The maximum attainable separation of recycled / reclaimed wastewater lines and potable water lines shall be enforced in order to minimize potential risks associated with pipeline breaks resulting in infiltration of wastewater from leaking wastewater lines into domestic water lines, or accidental cross-connections between recycled wastewater and potable water systems.

- Parallel Construction:** A horizontal separation of at least ten feet (10') shall be required between pressurized, buried, recycled / reclaimed and potable water piping (all distance to be measured from pipeline outside diameter).

- Cross-Over Construction:** Buried potable water pipes crossing over pressurized recycled / reclaimed water pipes shall be laid not less than twelve inches (12") above the reclaimed water pipes. Reclaimed water pipes laid in the same trench or crossing-over building sewer or drainage piping shall be installed in compliance with the LACC – Title 28, Plumbing, Sections 609.0 and 720.0.
- Unused or Abandoned Potable Water Lines:** These lines are to be severed as close to water mains as practical, capped, and a ten foot (10') section of abandoned line removed and cemented under direct supervision by the Department.
- Existing On-site Piping:** Maximum separation of recycled / reclaimed wastewater lines and potable water lines shall be maintained upon system additions or modification.

PIPELINE MATERIALS AND IDENTIFICATION

All recycled / reclaimed water pipe materials, valves and fittings shall conform to the requirements of the LACC – Title 28, Plumbing, Sections 604.0, 605.0 and 606.0.

All recycled / reclaimed wastewater lines (pressure / non-pressure), valve boxes, hydrants and appurtenances shall be identified to clearly distinguish between recycled / reclaimed wastewater, non-potable and potable water systems (as specified in LACC – Title 28, Plumbing, Appendix J).

- Recycled / Reclaimed Wastewater:** All buried, recycled, wastewater systems (pressure / non-pressure) shall utilize purple pipe with black uppercase lettering "CAUTION: RECYCLED WATER – DO NOT DRINK" printed on opposite sides of the pipe. For limited application, the use of continuous lettering on three inch (3") minimum width purple tape with one inch black or white contrasting uppercase lettering "CAUTION RECYCLED WATER – DO NOT DRINK" permanently affixed at intervals not to exceed five feet, atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. All valves, except fixture supply control valves shall be equipped with a locking feature. All mechanical equipment that is appurtenant to the recycled / reclaimed water system shall be painted purple.

- Potable Water:** All potable water lines shall be installed in accordance with the Uniform Plumbing Code and all other applicable potable water system construction standards. All buried potable water lines shall be clearly identified by continuous lettering on three inch (3") minimum width blue tape with one inch (1") white lettering bearing the repeated wording "POTABLE WATER" permanently affixed at ten foot intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping and hydrants. Identification tape is not necessary for extruded colored PVC with continuous wording "POTABLE WATER" printed in contrasting lettering on opposite sides of the pipe.

- Non-Potable Water:** All non-potable irrigation / industrial water lines (pressure / non-pressure) shall be identified by continuous lettering on three inch (3") minimum width tape with one inch (1") contrasting lettering bearing the continuous uppercase lettering "NON-POTABLE WATER – DO NOT DRINK" permanently affixed at ten foot (10') intervals atop all horizontal piping, laterals and mains. Identification tape shall extend to all valve boxes and / or vaults, exposed piping, hydrants and quick couplers. Exposed piping, valve boxes, vaults, control valves, quick coupling valves, outlets and related appurtenances shall be color-coded and labeled / tagged to differentiate between recycled / reclaimed wastewater, potable water and non-potable water systems. Tags identifying recycled / reclaimed water shall have the appropriate identification on both sides (wording on one side and symbol on the opposite side).



THE SAFE USE OF RECYCLED / RECLAIMED WATER PROTECTS POTABLE WATER

- Deteriorated or inadequately-protected well water casings shall be repaired or replaced to protect aquifers against contamination from recycled / reclaimed wastewater systems.
- An On-Site Water Supervisor shall be appointed, having the responsibility of oversight for the protection of the potable water system (provided for under Title 17, Section 7586, and California Code of Regulations). The name and position of the On-Site Water Supervisor shall be reported to the water purveyor and to the Department. This position will be responsible for the installation, operation and maintenance of the recycled / reclaimed wastewater and potable water systems; authorization of any piping changes or additions to either the potable or recycled systems; prevention of potential hazards; implementation of the regulations; and coordination with the Cross-Connection Program of the water purveyor and of this Department.
- Hose bibbs shall not be permitted in any areas of public access to recycled / reclaimed wastewater systems, to prevent unauthorized use of recycled wastewater. Quick-couplers are permitted in lieu of hose-bibb outlets but shall only be connected to recycled / reclaimed wastewater lines. Hose bibbs may be permitted in areas that are not accessible to the public, provided they are properly identified with permanently affixed tags, labels, or plates with uppercase lettering "RECYCLED WATER – DO NOT DRINK" in English.

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CHECKED BY	MWB				
REV	DESCRIPTION	ENGR	DATE	APPD	DATE



PLANS PREPARED BY:
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**WEST BASIN MUNICIPAL
WATER DISTRICT**
EXPANDING RECYCLED WATER SERVICE

**VICTOR PARK
DPH RECYCLED WATER GUIDELINES**

PROJECT NO.
3915.0011.00
DWG. NO. 5 OF 5