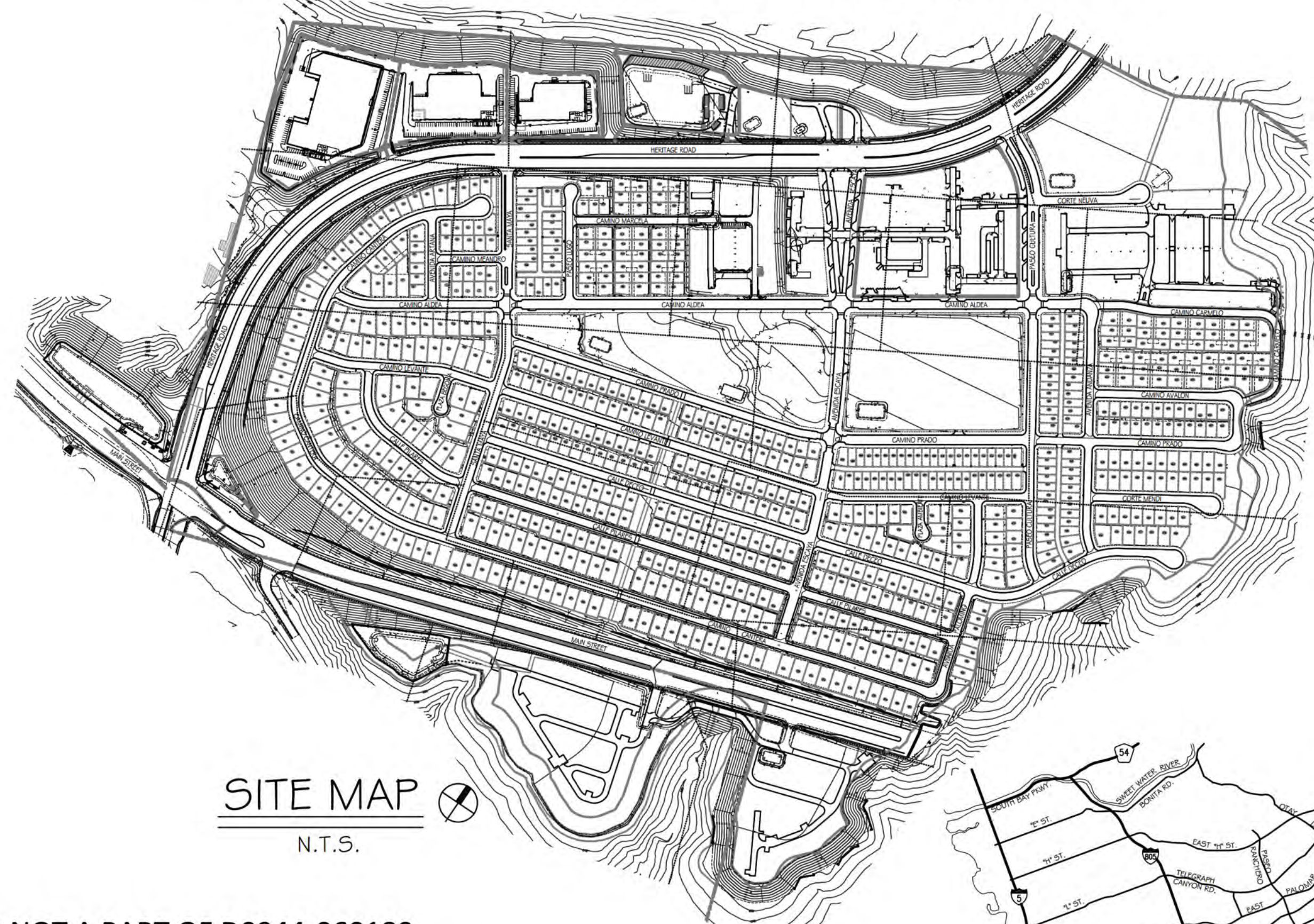


GENERAL NOTES

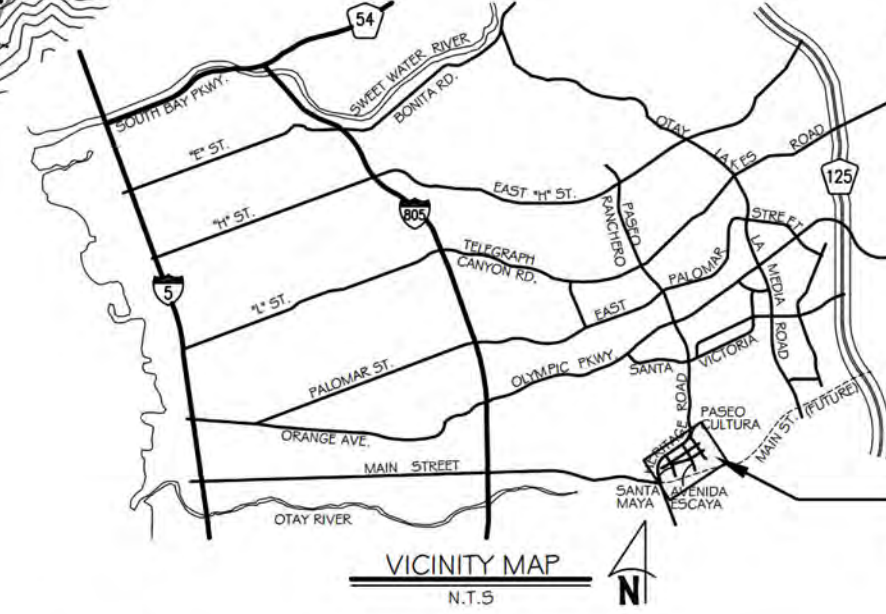
THE FOLLOWING GENERAL NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE LANDSCAPE ARCHITECT OF WORK. A CITY OF CHULA VISTA SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

- 1. NOTES ARE DIRECTED TO THE WORK OF THE LANDSCAPE CONTRACTOR UNLESS NOTED ON PLANS.
2. WORK NOT INTENDED TO BE UNDER LANDSCAPE CONTRACTOR'S CONTRACT:
A. N.I.C. - NOT IN CONTRACT
B. BY OTHERS
C. EXISTING
3. CONTRACTOR SHALL VERIFY WITH LANDSCAPE ARCHITECT THAT PLANS ARE CURRENT AND APPROVED.
4. WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CHULA VISTA LANDSCAPE MANUAL (MOST RECENT EDITION) AND THE SAN DIEGO COUNTY HANDBOOK FOR PUBLIC WORKS CONSTRUCTION.
5. THESE LANDSCAPE AND IRRIGATION PLANS HAVE BEEN CHECKED ONLY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE GRADING ORDINANCE. THE ENGINEER'S SIGNATURE OR APPROVAL DOES NOT CONSTITUTE APPROVAL OF ADDITIONAL LANDSCAPE AND IRRIGATION WHICH IS NOT COVERED BY THE BUILDING DEPARTMENT CHECK AND APPROVAL.
6. THESE PLANS ARE BASED ON HUNSAKER & ASSOCIATES GRADING PLANS, W.O.# OR-3001G, DRAWING NO. 16026-01 THROUGH 16026-93, DATED 1/04/16.
7. THE OWNER SHALL PROVIDE A COPY OF THE ENGINEERING SOILS REPORT BY GEOCON, INC. DATED 4-21-2010 TO THE CONTRACTOR WHO SHALL BECOME FAMILIAR WITH THE REPORT'S RECOMMENDATIONS PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL COMPLY WITH THE REPORT'S RECOMMENDATIONS AS THEY RELATE TO HIS WORK.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY AND/OR REQUIRED PERMITS AND PAY ALL RELATED FEES AND/OR TAXES REQUIRED TO INSTALL THE WORK ON THESE PLANS.
9. THE CONTRACTOR SHALL BE APPROPRIATELY LICENSED AS REQUIRED BY THE STATE IN WHICH THE WORK TAKES PLACE.
10. PRIOR TO INITIATING ANY PHASE OF THE IRRIGATION INSTALLATION, THE CONTRACTOR SHALL VERIFY EXISTENCE, SIZE, AND LOCATION OF ALL RELATED UTILITY SERVICES AND METERS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
11. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF WORK, TO BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT, PRIOR TO BEGINNING THE PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH SAID SCHEDULE.
12. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING THE WORK AND SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER, LANDSCAPE ARCHITECT, GOVERNING AGENCIES AND OTHER TRADES.
13. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY ERRORS, OMISSIONS OR DISCREPANCIES IN EXISTING CONDITIONS OR WITHIN THE PLANS PRIOR TO BEGINNING THE WORK. IMMEDIATE NOTIFICATION WILL BE GIVEN TO THE LANDSCAPE ARCHITECT SHOULD SUCH A CONDITION BE DISCOVERED.
14. ALL MATERIAL SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
15. THE CONTRACTOR SHALL, IMMEDIATELY UPON BEING AWARDED THE CONTRACT, MAKE ANY ARRANGEMENTS NECESSARY TO INSURE THAT ALL MATERIALS, CONNECTIONS, AND SUPPLIES WILL BE AVAILABLE WHEN NEEDED FOR THIS PROJECT.
16. ADDITIONS AND/OR DELETIONS OF MATERIAL AND/OR LABOR SHALL BE MADE AT UNIT PRICES.
17. NO ALTERATIONS WILL BE CONSIDERED FOR ITEMS SPECIFICALLY CALLED FOR ON THESE PLANS.
18. DETERMINATION OF 'EQUAL' SUBSTITUTIONS SHALL BE MADE ONLY BY THE LANDSCAPE ARCHITECT AND/OR OWNER.
19. LANDSCAPE ARCHITECT SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF ANY SITE OBSERVATIONS OR MEETINGS.
20. SITE OBSERVATIONS AND MEETINGS SHALL INCLUDE:
A. PRE-CONSTRUCTION
B. LANDSCAPE CONSTRUCTION
C. IRRIGATION PRESSURE AND COVERAGE TEST
D. SPOTTING OF SPECIMEN PLANTS
E. PLANTING
F. PRE-MAINTENANCE
G. POST-MAINTENANCE (FINAL)
NOTE: 'LANDSCAPE' SHALL REFER TO ALL IMPROVEMENTS WITHIN THIS SET OF DOCUMENTS THAT HAVE BEEN DESIGNED BY THIS OFFICE.
NOTE: THE CITY OF CHULA VISTA LANDSCAPE INSPECTOR, DAVE DEFACCI (619) 850-0539, WILL ISSUE A LIST OF CITY OBSERVATIONS AT THE PRE-CONTRACT MEETING.
21. SITE OBSERVATIONS BY THE LANDSCAPE ARCHITECT DURING ANY PHASE OF THIS PROJECT DOES NOT RELIEVE THE CONTRACTOR OF HIS PRIMARY RESPONSIBILITY TO PERFORM ALL WORK IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND GOVERNING CODES.
22. CONTRACTOR SHALL BE BACK CHARGED FOR LANDSCAPE ARCHITECT'S TIME WHEN OBSERVATIONS ARE CALLED FOR AND IT IS FOUND THAT THE WORK IS NOT SIGNIFICANTLY READY UPON OBSERVATION OR APPOINTMENT IS NOT KEPT. TIME WILL BE CHARGED ON AN HOURLY BASIS, PLUS TRANSPORTATION, FOOD AND LODGING COSTS, IF ANY, AT THE THEN EXISTING HOURLY RATE FOR PERSONNEL PROVIDING THE OBSERVATIONS.
23. THIS FIRM DOES NOT PRACTICE OR CONSULT IN THE FIELD OF SAFETY ENGINEERING. THIS FIRM DOES NOT DIRECT THE CONTRACTOR'S OPERATIONS, AND IS NOT RESPONSIBLE FOR THE SAFETY OF PERSONNEL OTHER THAN OUR OWN ON THE SITE. THE SAFETY OF OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD NOTIFY THE OWNER IF HE CONSIDERS ANY OF THE RECOMMENDED ACTIONS PRESENTED HEREIN TO BE UNSAFE.
24. THIS FIRM DOES NOT PRACTICE OR CONSULT IN THE FIELD OF SAFETY ENGINEERING. THIS FIRM DOES NOT DIRECT THE CONTRACTOR'S OPERATIONS, AND IS NOT RESPONSIBLE FOR THE SAFETY OF PERSONNEL OTHER THAN OUR OWN ON THE SITE. THE SAFETY OF OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD NOTIFY THE OWNER IF HE CONSIDERS ANY OF THE RECOMMENDED ACTIONS PRESENTED HEREIN TO BE UNSAFE.
25. THESE PLANS HAVE BEEN PREPARED IN SUBSTANTIAL CONFORMANCE WITH THE LANDSCAPE CONCEPT PLANS, WATER CONSERVATION PLAN AND CONDITIONS OF APPROVAL RELATED TO LANDSCAPING.
26. THESE PLANS SHOW A COMBINATION OF CFD AND ASSOCIATION MAINTAINED LANDSCAPE IMPROVEMENTS. THE DEVELOPER/ CONTRACTOR SHALL PROVIDE FULL MAINTENANCE OF ALL LANDSCAPE AREAS:
- FOR HOA MAINTAINED AREAS: A MINIMUM OF 90 DAYS
- FOR CFD MAINTAINED AREAS: 1 YEAR AFTER INITIAL WRITTEN CLIENT APPROVAL.
27. THESE PLANS AND ALL WORK SHALL COMPLY WITH THE 2007 CBC (2006 IBC), 2007 CFC, 2007 CMC, 2007 CEC, 2007 CFC # 4 THE 2008 CALIFORNIA ENERGY CODE, AS ADOPTED AND AMENDED BY THE CITY OF CHULA VISTA.
28. THE LANDSCAPE AND IRRIGATION SHALL BE IN COMPLIANCE WITH THE CITY OF CHULA VISTA LANDSCAPE WATER CONSERVATION ORDINANCE, MUNICIPAL CODE CHAPTER 20.12.
29. UPON COMPLETION OF THE LANDSCAPE AND IRRIGATION IMPROVEMENTS, CONTRACTOR SHALL CONTACT THE CITY OF CHULA VISTA SENIOR LANDSCAPE INSPECTOR, DAVE DEFACCI (DDEFACCI@CHULAVISTA.CA.GOV OR 619-397-6018) TO SCHEDULE A PRE-CONSTRUCTION MEETING, RECEIVE A LANDSCAPE INSPECTION PACKET, AND TO SCHEDULE AN INSPECTION OF THE IMPROVEMENTS.

Landscape & Irrigation Plans for: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL A Development of HomeFed Corporation



SITE MAP N.T.S.



SCOPE OF WORK: PLANTING AND IRRIGATION ON PERMANENT AND TEMPORARY SLOPES WITHIN IN VILLAGE 3 AND SURROUNDING WATER QUALITY BASINS.

OWNER HOMEFED CORPORATION 1903 WRIGHT PLACE, SUITE 220 CARLSBAD, CALIFORNIA 92008 (760) 798-1765 CONTACT: CURT SMITH

LANDSCAPE ARCHITECT TRIBUTARY LA, INC. 2725 JEFFERSON STREET, SUITE 14 CARLSBAD, CA 92008 (760) 434-9300 CONTACT: TOM PICARD

CIVIL ENGINEER HUNSAKER & ASSOCIATES 9707 WAPLES ST. SAN DIEGO, CA 92121 (658) 558-4500 CONTACT: JOHN RIVERA

GOVERNING MUNICIPALITY THE CITY OF CHULA VISTA 276 FOURTH AVENUE CHULA VISTA, CALIFORNIA 91910 (619) 489-3826 CONTACT: ZACH TANNER

GOVERNING WATER AGENCY OTAY WATER DISTRICT 2554 SWEETWATER SPRINGS BLVD SPRING VALLEY, CALIFORNIA 91978 (619) 670-2222

GOVERNING HEALTH AGENCY COUNTY OF SAN DIEGO DEPT. OF ENVIRONMENTAL HEALTH 5500 OVERLAND AVENUE, SUITE 170 SAN DIEGO, CALIFORNIA 92123 (658) 505-6700 CONTACT: GLENN LEEKS

IRRIGATION CONSULTANT INDEPENDENT IRRIGATION CONSULTANTS, INC. 435 NORTH PACIFIC STREET SAN MARCOS, CA 92069 (760) 967-0177 CONTACT: JAIME COVARRUBIAS

SHEET INDEX

Table with columns SHEET and DESCRIPTION. Lists sheets T-1 through T-7 and LC-1 through LC-3, and LI-1 through LI-44, including descriptions like LANDSCAPE TITLE SHEET, RW AREA USE MAP, HYDROZONE MAP, etc.

LRWS TABLE with columns Construction Change and LRWS Number. Shows original and revised LRWS numbers for various sheets.

\* NOT A PART OF D0944-060189

V3 HERITAGE ROAD - METER INFORMATION TABLE - RECYCLED WATER. Table with columns POC ID, METER LOCATION, STATION COUNT, DEMAND GPM, IRRIG. AREA (SQ.FT), LATERAL SIZE, METER SIZE, MAINTAINED BY.

Responsibility Disclaimer

All screened facilities, existing or proposed, were obtained from Civil Plans OR-837C, Drawing No. 14032-01 through 14032-37, dated 12/14/16, and OWD WO# D0954-090246. Actual size and location of facilities shall be verified. Contractor shall pothole all existing utilities to verify tie-in locations, pipe size and type prior to any work being performed.

Omission Statement

There are no drinking fountains, decorative fountains, comfort stations, outdoor eating areas, swimming pools, playground equipment, or wells on the site.

Inspection Note

Otay Water District shall be notified 5 working days prior to the start of construction at (619) 670-2241. All work performed without the benefit of inspection shall be subject to rejection and removal.

Signature and Date section for Brandon DiPietro, Field Services Mgr., dated 9/26/22.



Declaration of Responsible Charge

I hereby declare that I am the Landscape Architect of work for this project, that I have exercised responsible charge over the design of the project as defined in section 6703 of the Business and Professions Code, and that the design is consistent with current standards.

I understand that the check of project drawings and specifications by the City of Chula Vista, the Otay Water District, and the County of San Diego Department of Environmental Health is confined to a review only and does not relieve me, as Landscape Architect of work, of my responsibilities for project design.

I am familiar with and agree to comply with the requirements for landscape improvement plans as described in Chapter 20.12 of the Municipal Code. I have prepared this plan in compliance with those regulations. I certify that the plan implements the regulations to provide efficient landscape water use.

Tributary LA, Inc. 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008

Signature of Glenn Leeks, R.L.A. NO. 4001, EXP. DATE 9-5-17, dated 9/13/17.

Table with columns COUNTY OF SAN DIEGO D.E.H. REVISIONS, OTAY WATER DISTRICT REVISIONS, and Date. Lists revision dates and initials for Glenn Leeks and Jenna Lepore.

COUNTY OF SAN DIEGO Department of Environmental Health Land and Water Quality Division. Signature of Jenna Lepore, Environmental Health Specialist, dated 5/1/2017.

OTAY WATER DISTRICT PROJECT # D0944-060189. Signature of Dan Martin, P.E., dated 5/10/17.

CITY OF CHULA VISTA SUBMITTALS. Table with columns Submitted By, Date, and Description. Lists submission dates from 10/6/16 to 04/10/17.

'AS-BUILT' signature section with date 4/24/23 and 9/26/22.

IT'S THE LAW! DIAL BEFORE YOU DIG! UNDERGROUND SERVICE ALERT logo and text.



Tributary LA, Inc. contact information: 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008. Phone: 760 434 9300 office, 760 434 9303 fax.

CONSTRUCTION RECORD and REFERENCES table. Includes columns for Contractor, Inspector, Date Completed, REFERENCES, BY, REVISIONS, Date, App'd, BENCH MARK, SCALE, Office, Field, Traffic, and Drawing No. (16050-01).

SEE SHEET LI-3  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

SEE SHEET LI-2  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

SEE SHEET LI-2  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

SEE SHEET LI-2  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

NOT A PART - REFER TO LANDSCAPE  
& IRRIGATION PLANS BY RIDGE  
LANDSCAPE ARCHITECTURE.  
OWD# D1019-060286  
DEH# DEH2021-LRWS-001351  
CV WOF GR210042

NOT A PART - REFER TO LANDSCAPE  
& IRRIGATION PLANS BY RIDGE  
LANDSCAPE ARCHITECTURE.  
OWD# D1019-060286  
DEH# DEH2021-LRWS-001351  
CV WOF GR210042

SEE SHEET LI-5  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

SEE SHEET LI-5  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

MU-1

I-3a

R-16

S-D

I-2

I-1a

S-B2

S-C

I-3C

S-E

MU-2

O-1

R-14

S-1a

S-1b

SEE SHEET LI-3  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND  
CALCULATIONS

SEE SHEET LI-3  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
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CALCULATIONS

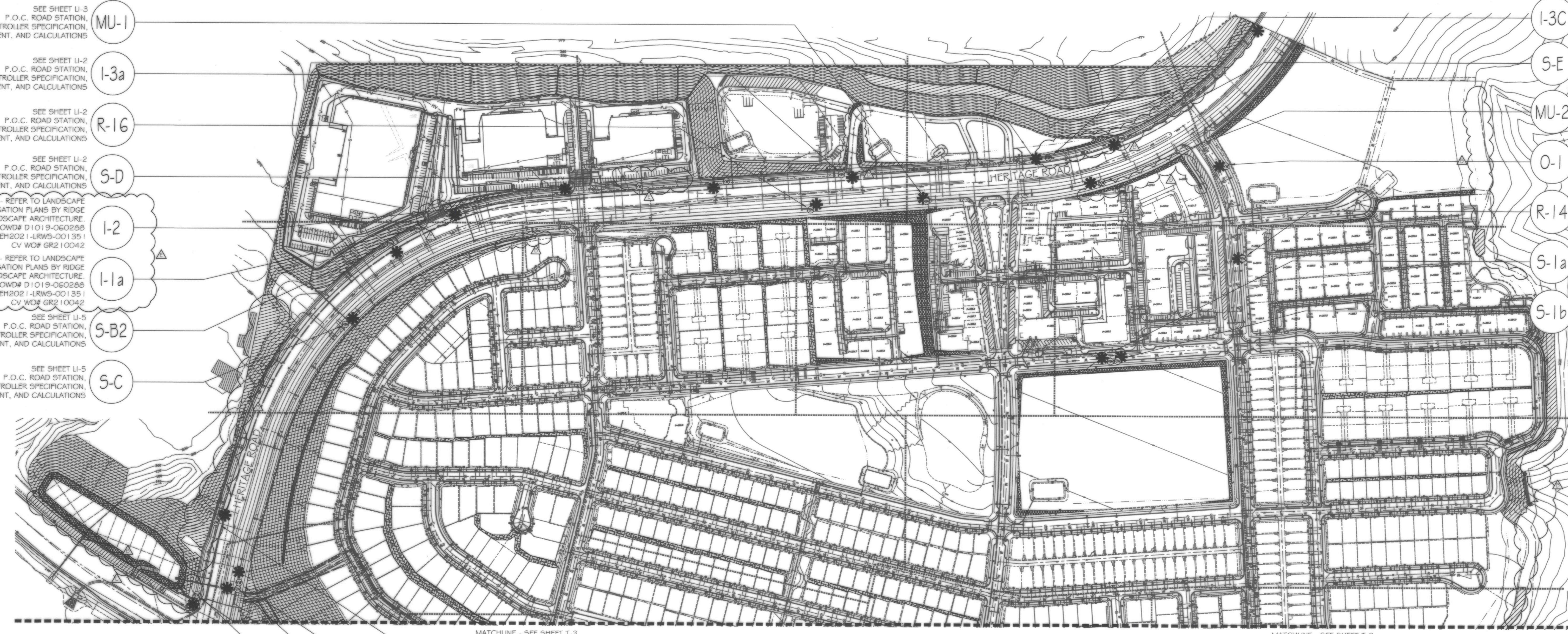
SEE SHEET LI-3  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND  
CALCULATIONS

SEE SHEET LI-4  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND  
CALCULATIONS

SEE SHEET LI-8  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND  
CALCULATIONS

SEE SHEET LI-8  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND  
CALCULATIONS

SEE SHEET LI-8  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND  
CALCULATIONS



MATCHLINE - SEE SHEET T-3

MATCHLINE - SEE SHEET T-3

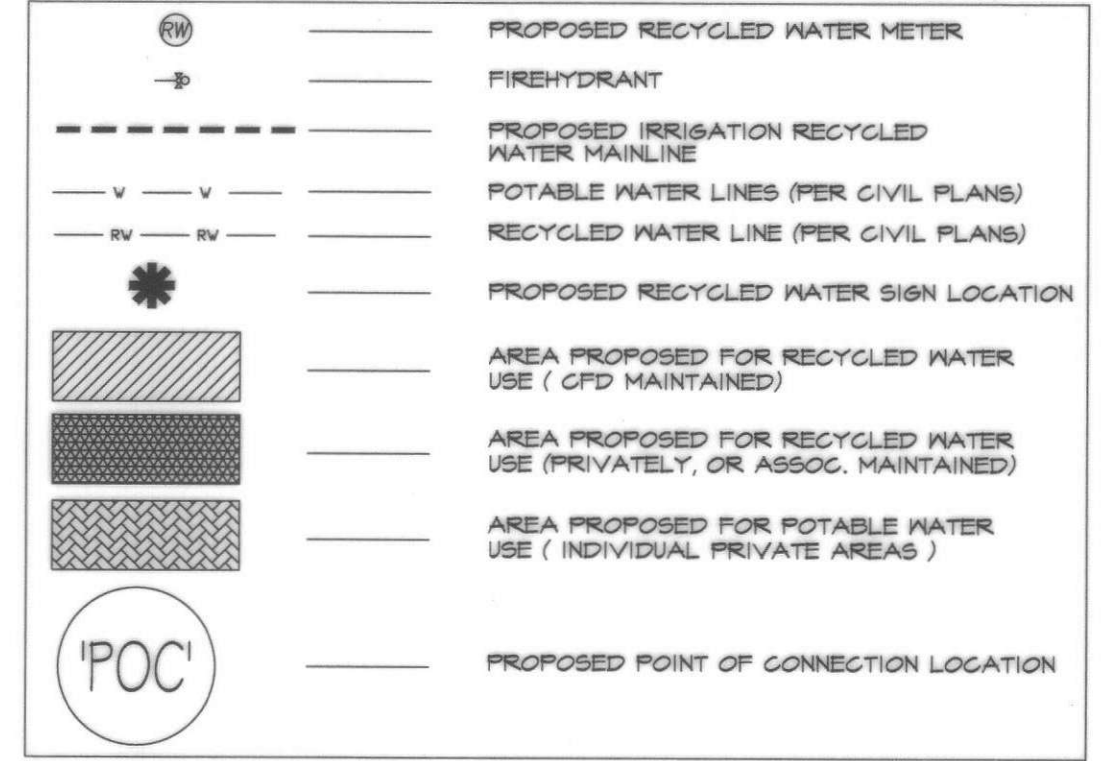
S-B SEE SHEET LI-10  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

SA-2 SEE SHEET LI-15  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

S-1 SEE SHEET LI-15  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

BB SEE SHEET LI-10  
P.O.C. ROAD STATION,  
CONTROLLER SPECIFICATION,  
EQUIPMENT, AND CALCULATIONS

LEGEND

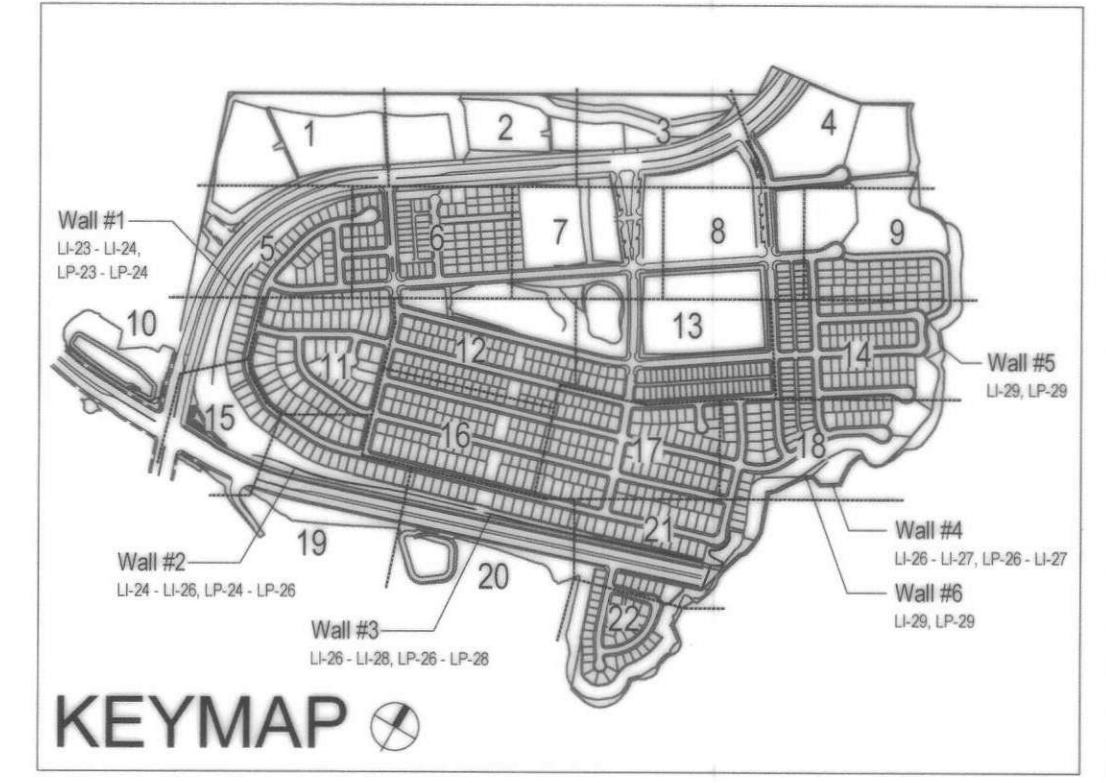


FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30.  
FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36.  
FOR WATER PRESSURE CALCULATIONS, SCHEDULING  
GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39.  
FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

R.N. IDENTIFICATION BY COLOR CODING:

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION  
HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE.  
THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE  
OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY  
ATTACHED PURPLE PLASTIC RING OR DISC.  
DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

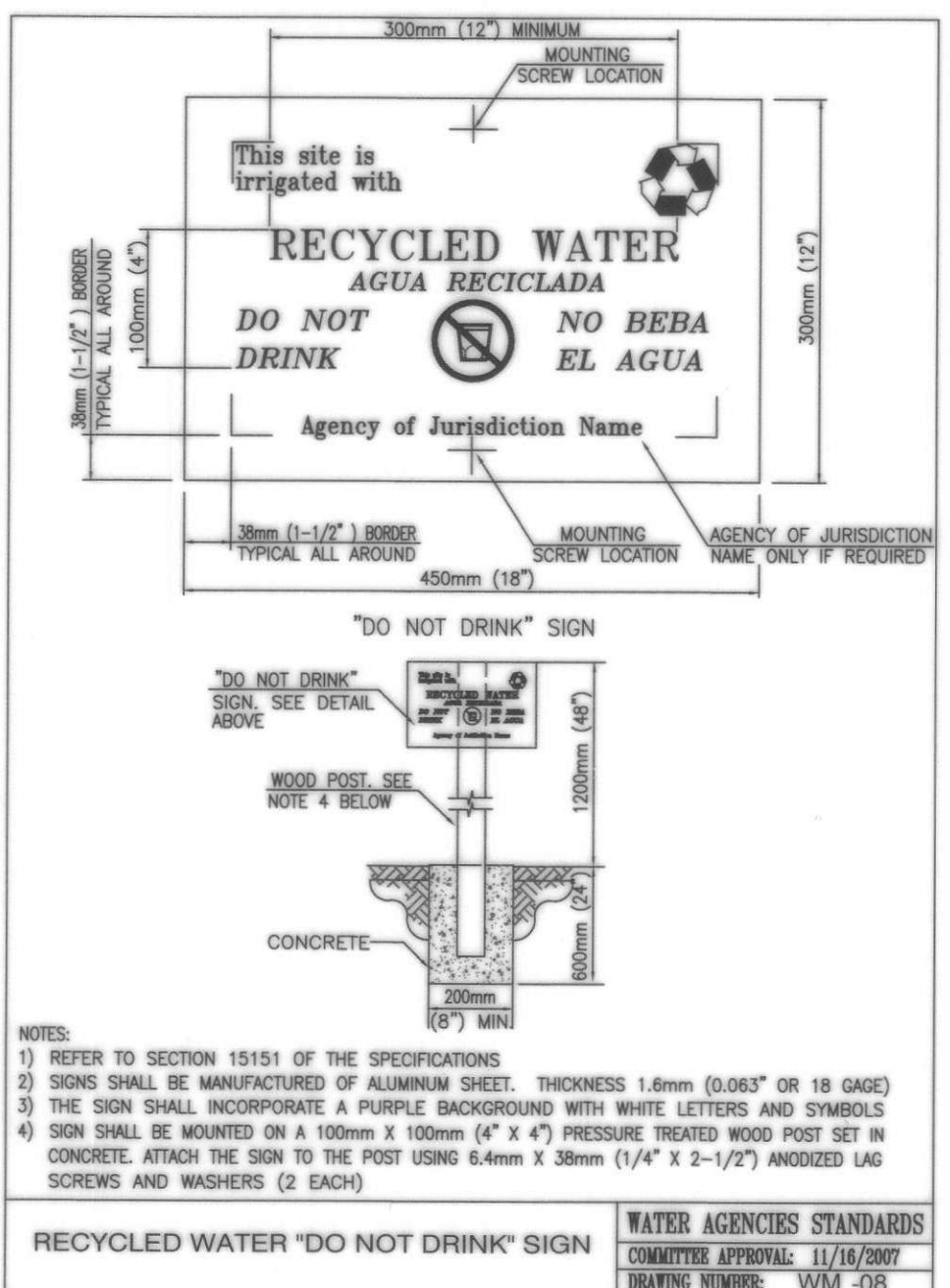
\* THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO  
CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT  
OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
\* NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING  
POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN  
LIMITS OF WORK.  
\* ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS.  
TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL  
LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.



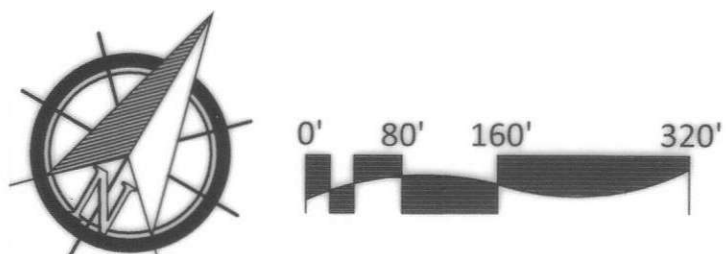
**TESTING:**  
In accordance with the City of Chula Vista's Landscape Water Conservation Ordinance, Section 20.12.240 -Irrigation testing and statement of substantial conformance.

A. For all projects approved by the City, the landscape architect of record shall state in writing that the landscape improvements have been installed in compliance with the approved landscape documentation package prior to final inspection and City issuance of a certificate of completion of the project. They shall be satisfied that the irrigation system has been functionally tested, by testing, irrigation survey or irrigation audit, for, but not limited to, the following: distribution uniformity, overspray, and that runoff has been addressed, and water use can match the included calculations once plants are established with the irrigation provided. The project applicant shall submit a copy of the testing, irrigation survey or irrigation audit to the City prior to completion or turnover in the case of public improvements.

B. All landscape irrigation audits shall be conducted by a third party, independently certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape. (Ord. 9357 §1, 2015; Ord. 3146 §1 (Exh. A), 2004)



RECYCLED WATER "DO NOT DRINK" SIGN



OTAY WATER DISTRICT  
Project No. D0944-060189 LRWS No.2019-00134  
P.Z. 624, 711 R.P.Z. 680

"AS-BUILT"  
SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
DISCIPLINE: \_\_\_\_\_ REGIST. EXP. \_\_\_\_\_  
LANDSCAPE ARCHITECT

IT'S THE LAW!  
DIAL BEFORE YOU DIG!  
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600



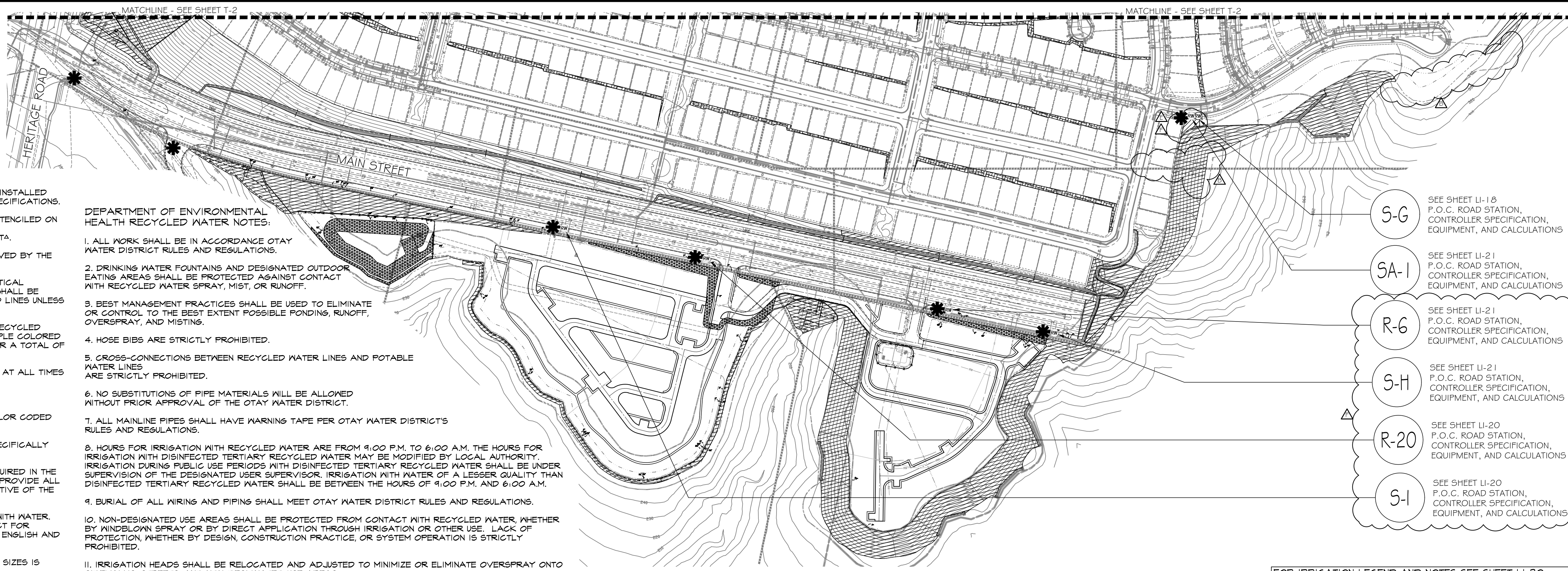
Tributary LA, Inc.  
Landscape Architecture and Planning  
DATE: 7 APR '22  
SCALE: 1" = 160'  
JOB NO. 15024  
DRAWN BY: T.P./T.G.M.  
W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	CITY OF CHULA VISTA	Drawing No.
Contractor Inspector Date Completed	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD ROCK MARKED 'SD CITY ENGR.' IN 3/4" IRON PIPE. REPLACE AND REPAIR. REPAIRS TO BE MADE. REPAIRS TO BE MADE AT PROPOSED SIGNMENT WATER. REPAIRS TO BE MADE AT PROPOSED SIGNMENT WATER. REPAIRS TO BE MADE AT PROPOSED SIGNMENT WATER.	5/21/19 4/20/22	[Signature] [Signature]	1.5 MILES EAST OF INTER OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN TRAIL. EASTERLY PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (781 1559 PER R.O.S. 14841) ELEV=629.319' (NAVD83)	Horizontal Vertical N/A	Field Traffic	Thomas A. Picard	[Signature]	[Signature]	5-15-17 Plans Prepared Under Supervision Of Date: 4 / 7 / 22 R.L.A. No. 4001	RECYCLED WATER AREA USE MAP OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 02 Sheet 02 of 65

OTAY WATER DISTRICT RECYCLED WATER NOTES

- ALL ON-SITE IRRIGATION IMPROVEMENTS SHOWN ON THESE PLANS ARE PART OF A RECYCLED WATER DISTRIBUTION SYSTEM. NO CONSTRUCTION WILL BE ALLOWED UNTIL ALL APPROVALS HAVE BEEN OBTAINED.
- CROSS CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED.
- USE OF RECYCLED WATER SHALL ADHERE TO TITLE 22, DIVISION 4, CHAPTER 3 OF THE CALIFORNIA CODE OF REGULATIONS AND THE CURRENT RULES, REGULATIONS AND SPECIFICATIONS OF THE DISTRICT.
- OTAY WATER DISTRICT INSPECTION SHALL BE NOTIFIED FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
- PUBLIC FACILITIES SUCH AS DRINKING AND DECORATIVE FOUNTAINS, COMFORT STATIONS, PLAYGROUND EQUIPMENT, ETC., DO NOT EXIST ON THIS PROJECT.
- ALL ON-SITE RECYCLED WATER IRRIGATION PIPING AND ON-SITE POTABLE WATER PIPING INSTALLED UNDER THIS DESIGN SHALL BE IDENTIFIED IN ACCORDANCE WITH THE DISTRICT STANDARD SPECIFICATIONS.
- ALL ON-SITE RECYCLED WATER PIPING SHALL BE PURPLE COLORED PVC, CONTINUOUSLY STENCILED ON OPPOSITE SIDES OF THE PIPE WITH THE WORDS "CAUTION - RECYCLED WATER". APPROVED MANUFACTURERS OF THIS PIPE CAN BE FOUND IN THE DISTRICTS' APPROVED MATERIALS LIST.
- ALL ON-SITE POTABLE WATER LINES SHALL BE WHITE OR BLUE UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- UNLESS OTHERWISE DIRECTED BY THE DISTRICT, A 10-FOOT HORIZONTAL AND 1-FOOT VERTICAL SEPARATION BETWEEN POTABLE WATER AND CONSTANT PRESSURE RECYCLED WATER LINES SHALL BE MAINTAINED AT ALL TIMES. THE POTABLE LINES SHALL BE INSTALLED ABOVE THE RECYCLED LINES UNLESS OTHERWISE APPROVED BY THE DISTRICT OR DEHQ.
- WHERE POTABLE LINES AND CONSTANT PRESSURE RECYCLED WATER LINES CROSS, THE RECYCLED WATER LINE SHOULD BE INSTALLED BELOW THE POTABLE WATER LINE IN A SCHEDULE 40 PURPLE COLORED PVC SLEEVE. THE SLEEVE SHALL EXTEND 10-FEET ON EITHER SIDE OF THE POTABLE LINE, FOR A TOTAL OF 20-FEET.
- A MINIMUM VERTICAL SEPARATION OF 12 INCHES SHALL BE MAINTAINED BETWEEN UTILITIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- HOSE BIBS ARE STRICTLY PROHIBITED ON RECYCLED WATER SYSTEMS.
- ALL SPRAY HEADS, VALVE BOXES, AND QUICK COUPLER VALVES SHALL BE CLEARLY COLOR CODED (PURPLE) TO INDICATE THE USE OF RECYCLED WATER.
- RECYCLED WATER LINES SHALL NOT CROSS ROADS, STREETS, OR EASEMENTS UNLESS SPECIFICALLY SHOWN ON THESE PLANS.
- ALL CONSTANT PRESSURE LINES SHALL BE TESTED WITH HYDROSTATIC PRESSURE AS REQUIRED IN THE DISTRICT STANDARD SPECIFICATIONS. NO LEAKS SHALL BE ALLOWED. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT FOR HYDROSTATIC TESTS. THESE TESTS SHALL BE WITNESSED BY A REPRESENTATIVE OF THE DISTRICT.
- ALL SIGNAGE SHALL BE APPROVED AND INSTALLED PRIOR TO ENERGIZING THE SYSTEM WITH WATER. A SIGNAGE PLAN INDICATING USE OF RECYCLED WATER SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL PRIOR TO INSTALLATION. AS A MINIMUM, SIGNS MUST BE POSTED AND WRITTEN IN ENGLISH AND SPANISH WITH THE INTERNATIONAL SYMBOL (DO NOT DRINK).
- ALL METER SIZES SHALL BE VERIFIED BY THE DISTRICT. FINAL DETERMINATION OF METER SIZES IS RESERVED BY THE DISTRICT.
- ALL RECYCLED WATER SERVICES REQUIRE BACKFLOW PREVENTION AS SHOWN IN THE POINT OF CONNECTION (POC) DETAIL. IRRIGATION SYSTEMS BEING SUPPLIED WITH RECYCLED WATER SHALL INSTALL BACKFLOW PREVENTION AND A NYE STRAINER PER DISTRICT STANDARD DRAWING WR-03, WR-04, WR-05, WR-06, and WR-08.
- PRIOR TO ENERGIZING THE ON-SITE SYSTEM WITH WATER, ONE (1) COMPLETE SET OF LAMINATED CONTROLLER CHARTS AND ONE (1) ELECTRONIC COPY CREATED FROM THE FINAL APPROVED AS-BUILT SHALL BE PROVIDED TO THE DISTRICT.
- EACH AUTOMATIC CONTROLLER AND ITS ASSOCIATED EQUIPMENT SHALL BE IDENTIFIED WITH A SIGN BEARING THE WORDS "RECYCLED WATER USED FOR IRRIGATION" IN ENGLISH AND SPANISH WITH WHITE LETTERS AT LEAST 1 INCH HIGH ON A PURPLE, PANTONE 512, BACKGROUND. THE SIGN SHALL BE PLACED AS TO BE READILY SEEN BY ANY OPERATIONS PERSONNEL UTILIZING THE EQUIPMENT.
- THE CONTRACTOR SHALL ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. THIS SHALL INCLUDE THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. CONDITIONS THAT CAUSE OVERSPRAYS, PONDING, OR RUNOFF SHALL BE ELIMINATED. ADJUST SYSTEM TO AVOID THESE CONDITIONS.
- THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO AND SHALL BE OPERATED BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- NO SUBSTITUTION OF PIPE MATERIALS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE DISTRICT.
- AN INITIAL CROSS-CONNECTION INSPECTION WILL BE DONE AT SITES WITH BOTH POTABLE AND RECYCLED WATER SERVICES BY THE DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (DEHQ). COPIES OF INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY. ANNUAL INSPECTIONS OR CROSS-CONNECTION TESTING WILL BE PERFORMED THEREAFTER.
- FAILURE TO COMPLY WITH THE DISTRICTS RULES AND REGULATIONS IS A VIOLATION AND COULD RESULT IN SUSPENSION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS HAVE BEEN TAKEN.
- WHEN RECYCLED WATER BECOMES AVAILABLE, AN ON-SITE CERTIFIED RECYCLED WATER SITE SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS CONNECTION PROTECTION, THE RECYCLED PURVEYORS RULES AND REGULATIONS, AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO THE OTAY WATER DISTRICT AND SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.
- IN CASE OF EMERGENCY CONTACT BRIAN CANARIS AT 619-520-0429 OR AFTER HOURS, CONTACT BRIAN CANARIS AT 619-520-0429
- BEST MANAGEMENT PRACTICES SHALL BE USED TO ELIMINATE OR CONTROL TO THE BEST EXTENT POSSIBLE PONDING, RUN-OFF, OVER-SPRAY AND MISTING.
- AT THE DISCRETION OF OTAY WATER DISTRICT, RECYCLED WATER QUICK COUPLERS MAY BE ALLOWED WITHIN SLOPES AND PARKWAYS.
- RECYCLED WATER QUICK COUPLING VALVES SHALL BE OF A TYPE DESIGNED FOR USE ON RECYCLED WATER DISTRIBUTION SYSTEMS (SPIKES NOT INTERCHANGEABLE WITH POTABLE WATER QUICK COUPLER SPIKES) PER OTAY WATER DISTRICTS RULES AND REGULATIONS.
- ALL BUILDINGS SHALL HAVE INDIVIDUAL POTABLE WATER SHUT-OFF VALVES INSTALLED ON THE EXTERIOR OF EACH BUILDING AND SHALL BE MAINTAINED IN WORKING ORDER FOR THE PURPOSE OF THE CROSS-CONNECTION SHUTDOWN TEST. A DETAIL OF POTABLE WATER SHUT-OFF VALVE INSTALLATION MUST BE INCLUDED ON PLANS FOR DISTRICT APPROVAL.
- ALL BOX LIDS SHALL BE BRANDED.
- A 10-FOOT SEPARATION BETWEEN RECYCLED WATER IRRIGATION MAIN LINE TIE IN POINT AND PROJECT POINT OF CONNECTION (POC) IS TO BE MAINTAINED DURING THE CONSTRUCTION PROCESS AND IS TO BE TIED IN AT THE INSPECTIONS DIRECTION, AFTER DEH APPROVALS AND METER(S) SET(S) HAVE TAKEN PLACE.
- RECYCLED WATER IRRIGATION PROJECTS THAT REQUIRE PHASING OF CONSTRUCTION SHALL REQUIRE A DETAILED PHASING PLAN BE SUBMITTED BY THE PROJECT ARCHITECT TO THE DISTRICT FOR REVIEW UPON APPROVAL OF THE PHASING PLAN BY THE DISTRICT. A COPY OF THE APPROVED PHASING PLAN SHALL BE INCORPORATED INTO THE APPROVED PLAN SET(S) BY THE PROJECT ARCHITECT.
- ALL DUAL SOURCED RECYCLED WATER USE SITES SHALL BE DESIGNED AND BUILT TO UTILIZE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH APPROVED TEST METHOD 1, UTILIZING PRESSURE RECORDERS FOR THE RECYCLED AND POTABLE CROSS-CONNECTION TESTING. PROPOSED ALTERNATIVE TEST METHODS MUST BE APPROVED BY THE OTAY WATER DISTRICT AND SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.

MATCHLINE - SEE SHEET T-2



MATCHLINE - SEE SHEET T-2

DEPARTMENT OF ENVIRONMENTAL HEALTH RECYCLED WATER NOTES:

- ALL WORK SHALL BE IN ACCORDANCE OTAY WATER DISTRICT RULES AND REGULATIONS.
- DRINKING WATER FOUNTAINS AND DESIGNATED OUTDOOR EATING AREAS SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST, OR RUNOFF.
- BEST MANAGEMENT PRACTICES SHALL BE USED TO ELIMINATE OR CONTROL TO THE BEST EXTENT POSSIBLE PONDING, RUNOFF, OVERSPRAY, AND MISTING.
- HOSE BIBS ARE STRICTLY PROHIBITED.
- CROSS-CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED.
- NO SUBSTITUTIONS OF PIPE MATERIALS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE OTAY WATER DISTRICT.
- ALL MAINLINE PIPES SHALL HAVE WARNING TAPE PER OTAY WATER DISTRICTS RULES AND REGULATIONS.
- HOURS FOR IRRIGATION WITH RECYCLED WATER ARE FROM 9:00 P.M. TO 6:00 A.M. THE HOURS FOR IRRIGATION WITH DISINFECTED TERTIARY RECYCLED WATER MAY BE MODIFIED BY LOCAL AUTHORITY. IRRIGATION DURING PUBLIC USE PERIODS WITH DISINFECTED TERTIARY RECYCLED WATER SHALL BE UNDER SUPERVISION OF THE DESIGNATED USER SUPERVISOR. IRRIGATION WITH WATER OF A LESSER QUALITY THAN DISINFECTED TERTIARY RECYCLED WATER SHALL BE BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M.
- BURIAL OF ALL WIRING AND PIPING SHALL MEET OTAY WATER DISTRICT RULES AND REGULATIONS.
- NON-DESIGNATED USE AREAS SHALL BE PROTECTED FROM CONTACT WITH RECYCLED WATER, WHETHER BY WINDBLOWN SPRAY OR BY DIRECT APPLICATION THROUGH IRRIGATION OR OTHER USE. LACK OF PROTECTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE, OR SYSTEM OPERATION IS STRICTLY PROHIBITED.
- IRRIGATION HEADS SHALL BE RELOCATED AND ADJUSTED TO MINIMIZE OR ELIMINATE OVERSPRAY ONTO SIDEWALKS, STREETS, AND NON-DESIGNATED USE AREAS.
- RECYCLED WATER QUICK COUPLING VALVES SHALL BE OF A TYPE DESIGNED FOR USE ON RECYCLED WATER DISTRIBUTION SYSTEMS PER OTAY WATER DISTRICT RULES AND REGULATIONS.
- ON RECYCLED WATER SYSTEMS, ALL APPURTENANCES (SPRINKLER HEADS, VALVE BOXES, ETC.) SHALL BE COLOR-CODED (PURPLE) IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) GUIDELINES AND SECTION 116015 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
- ALL IRRIGATION PIPES SHALL BE STENCILED WITH THE WARNING "NON-POTABLE OR RECYCLED WATER" COLOR-CODED (PURPLE) AND LAID WITH WARNING TAPE AND STENCILING ORIENTED TOWARDS THE TOP OF THE TRENCH PER OTAY WATER DISTRICTS RULES AND REGULATIONS.
- ON NEW SITE SYSTEMS (POST-METER), POTABLE WATER LINES, CONSTANT PRESSURE RECYCLED WATER MAINLINES, AND SEWER LINES SHALL BE PLACED A MINIMUM OF FOUR FEET APART OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR REGULATORY AGENCY MEASUREMENTS SHALL BE BETWEEN FACING SURFACES, NOT CENTER LINE OF PIPE.
- CONSTANT PRESSURE RECYCLED WATER LINES SHALL CROSS AT LEAST TWELVE (12) INCHES BELOW POTABLE WATER LINES AND MAINTAIN AT LEAST TWELVE INCHES OF VERTICAL SEPARATION BETWEEN OTHER UTILITIES.
- IF A CONSTANT PRESSURE RECYCLED WATER LINE MUST BE INSTALLED ABOVE A POTABLE WATER LINE OR LESS THAN TWELVE (12) INCHES BELOW A POTABLE WATER LINE, THEN THE RECYCLED WATER LINE SHALL BE INSTALLED WITHIN AN APPROVED PROTECTIVE SLEEVE AS PER OTAY WATER DISTRICT RULES AND REGULATIONS.
- DEVELOPER/CONTRACTOR SHALL CONDUCT A CROSS-CONNECTION SHUTDOWN TEST AND COVERAGE TEST AS DIRECTED BY THE OTAY WATER DISTRICT AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECYCLED WATER.
- THE REQUIRED CROSS-CONNECTION INSPECTION SHALL BE PERFORMED BY EITHER THE OTAY WATER DISTRICT AND/OR COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF THE INSPECTION REPORTS SHALL BE FORWARDED TO THE NON-INSPECTING PARTY.
- THE DESIGN AND LOCATIONS PROPOSED FOR RECYCLED WATER "DO NOT DRINK" WARNING SIGNS SHALL BE CALLED OUT ON THE PLANS.
- WHEN RECYCLED WATER BECOMES AVAILABLE, AN ON-SITE USER/SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS CONNECTION PROTECTION, THE DISTRICTS RULES AND REGULATIONS AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO THE OTAY WATER DISTRICT AND SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.

IN CASE OF AN EMERGENCY, CONTACT: BRIAN CANARIS AT (619) 234-4050  
OR AFTER HOURS, CONTACT: BRIAN CANARIS AT (619) 234-4050

- ALL PUBLIC AND PRIVATE POTABLE WATER MAINS, INCLUDING FIRE SERVICE MAINS AND ANY WATER WELLS AND WATER COURSES WITHIN THE RECYCLED WATER PROJECT LIMITS SHALL BE SHOWN ON THE PLANS.
  - CALL OUT ON THE PLANS IF THERE ARE OR ARE NOT DRINKING FOUNTAINS AND OR DESIGNATED OUTDOOR EATING AREAS ON THIS SITE.
  - EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS REGARDING THE PRESENCE AND USE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS INTENDED FOR LANDSCAPE IRRIGATION ONLY, AND SHALL NOT BE USED FOR DRINKING, WASHING HANDS, CLEANING TOOLS, AND ANY OTHER NON-APPROVED USE. THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY REQUIRES THAT THIS IMPORTANT INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS.
  - A PHYSICAL SEPARATION SHALL BE PROVIDED BETWEEN ADJACENT AREAS IRRIGATED WITH RECYCLED WATER AND WITH POTABLE WATER. SEPARATION SHALL BE PROVIDED BY DISTANCE, CONCRETE MOW STRIPS OR OTHER APPROVED METHODS.
- \*\* ALL DEPARTMENT OF ENVIRONMENTAL HEALTH FEES SHALL BE SUBMITTED TO: SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH LAND AND WATER QUALITY DIVISION 5201 RUFFIN ROAD, SUITE C SAN DIEGO, CA 92123  
ATTN: GLENN LEEKS PH# 658-694-2548 (CONTACT SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH FOR APPROPRIATE FEES)

GENERAL NOTES:

- DETECTABLE WARNING TAPE SHALL BE USED ON ALL CONSTANT PRESSURE MAIN LINE PIPING CARRYING EITHER RECYCLED OR POTABLE WATER.
- WARNING TAPES SHALL BE A MINIMUM OF 3" WIDE AND SHALL RUN CONTINUOUSLY FOR THE ENTIRE LENGTH OF ALL CONSTANT PRESSURE MAINLINE PIPING. THE TAPE SHALL BE INSTALLED IN A TRENCH 6" ABOVE THE TOP OF THE PIPE AT THE TOP OF THE SAND BEDDING MATERIAL.
- WARNING TAPE FOR CONSTANT PRESSURE POTABLE WATER PIPING SHALL BE BLUE IN COLOR WITH THE WORDS, "CAUTION BURIED POTABLE WATERLINE BELOW", IMPRINTED IN A MINIMUM 1" HIGH LETTERS BLACK IN COLOR. IMPRINTING SHALL BE CONTINUES AND PERMANENT.
- WARNING TAPE FOR CONSTANT PRESSURE RECYCLED WATER PIPING SHALL BE PURPLE IN COLOR WITH THE WORDS, "CAUTION BURIED WATERLINE BELOW", IMPRINTED IN A MINIMUM 1" HIGH LETTERS BLACK IN COLOR. IMPRINTING SHALL BE CONTINUES AND PERMANENT.
- ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN 4' MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECYCLED WATER AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSS, THE RECYCLED WATER PIPING SHALL BE INSTALLED BELOW THE POTABLE WATER PIPING IN A PVC CL 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF 5' ON EITHER SIDE OF THE POTABLE WATER PIPING. PROVIDE A MINIMUM VERTICAL CLEARANCE OF 6'.
- UNLESS OTHERWISE PERMITTED BY THE CITY OF CHULA VISTA, IRRIGATION WATERING CYCLES SHALL BE CONFINED TO MONDAY THROUGH FRIDAY.
- CONTACT OTAY WATER DISTRICT AND THE CITY OF CHULA VISTA LANDSCAPE INSPECTION DIVISION TO ARRANGE FOR A COVERAGE TEST AND A SYSTEM WALK THROUGH.

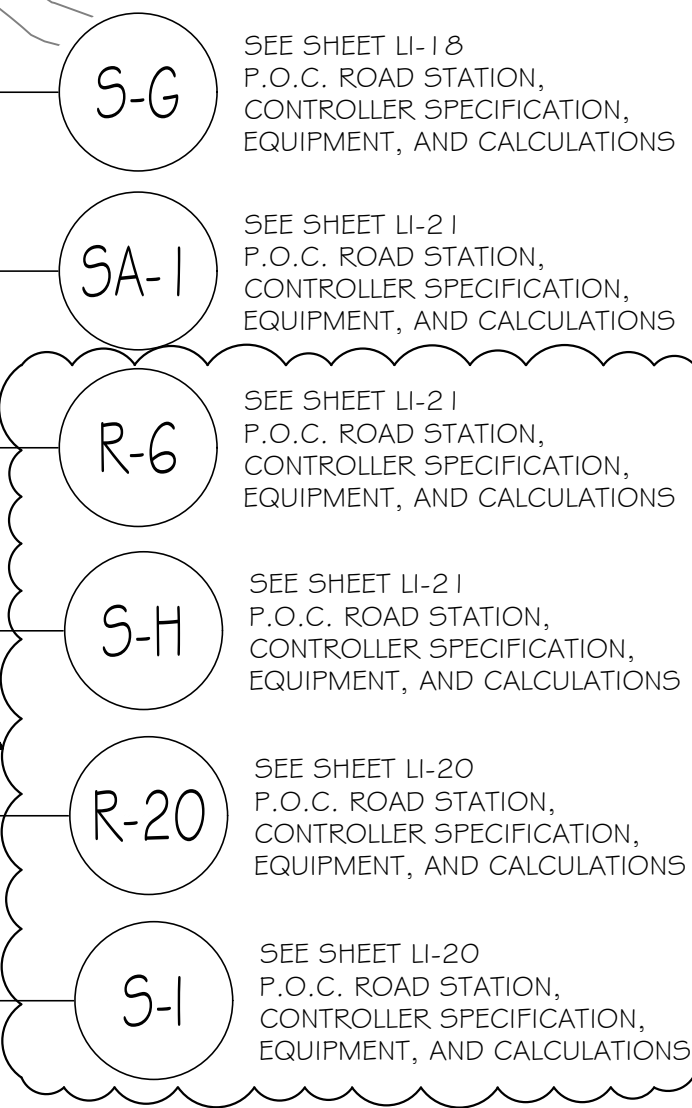
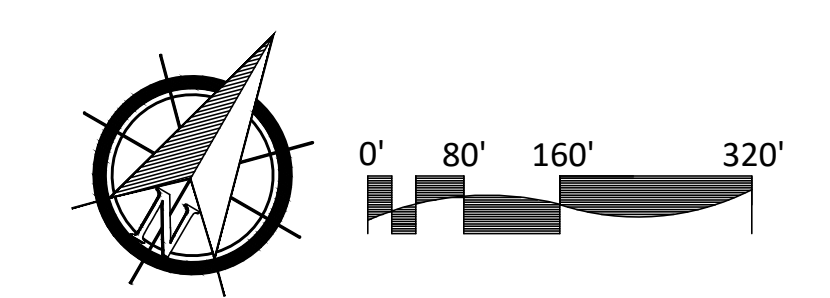
SPECIAL SUPPLEMENTAL RECYCLED WATER NOTES:

- THERE SHALL BE NO DIRECT (PIPE-TO-PIPE DRAINAGE OF RECYCLED WATER INTO THE STORM DRAINS.
- DESIGN OF BROW DITCHES AND CATCH BASINS SHALL ABSOLUTELY MINIMIZE RECYCLED WATER RUNOFF INTO STORM DRAINS.
- THE GENERAL CONTRACTOR SHALL KEEP AND MAINTAIN A SIGNED SET OF
- IMPROVEMENT PLANS ON-SITE AT ALL TIMES FOR REVIEW BY THE DIRECTOR
- OF ENGINEERING AND PLANNING OR HIS/HER REPRESENTATIVES.
- THE GENERAL CONTRACTOR'S SUPERINTENDENT IS REQUIRED
- TO UPDATE SAID PLANS WITH "AS-BUILT" INFORMATION ON
- A DAILY BASIS AS WORK IS PERFORMED.

REQUIRED INSPECTIONS:

CONTRACTOR SHALL NOTIFY OTAY WATER DISTRICT FIVE (5) WORKING DAYS PRIOR TO COMMENCING WORK.  
TELEPHONE (619) 670-2241. REQUIRED INSPECTIONS ARE AS FOLLOWS:

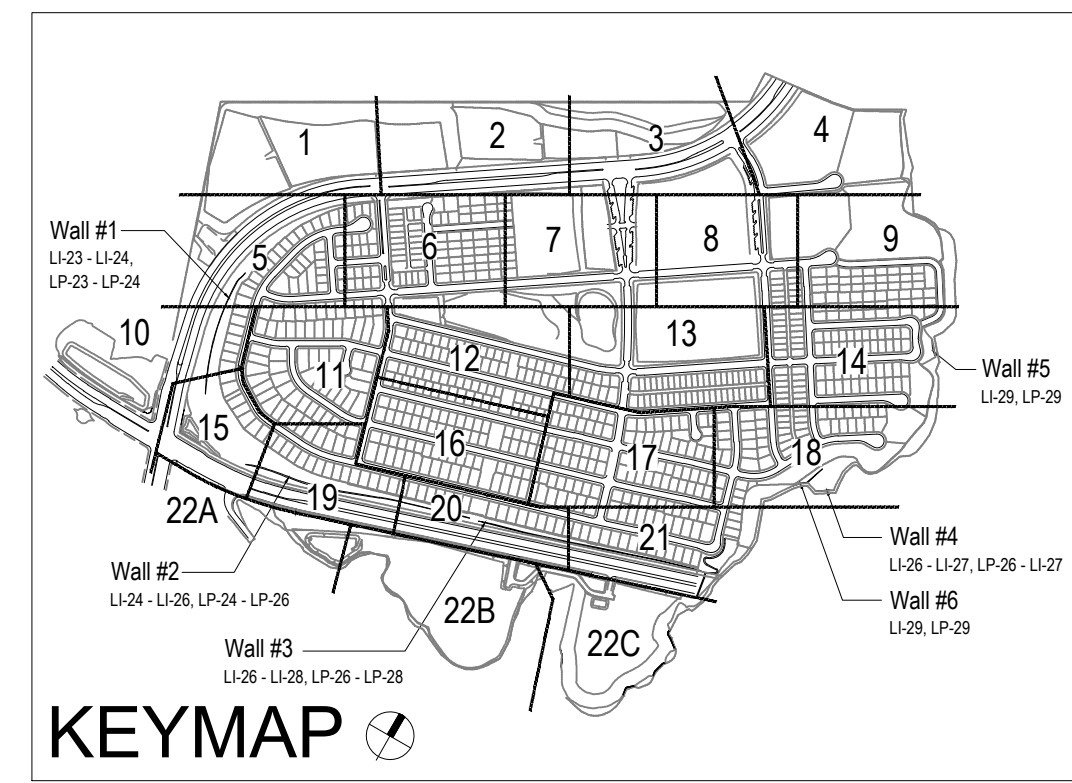
- MAINLINE PRIOR TO BACKFILL.
- SLEEVE CLEARANCES AND DEPTHS.
- ALL RECYCLED WATER INSTALLATIONS FROM MAIN TO SPRINKLER HEADS.
- SPRINKLER COVERAGE TEST.
- CROSS CONNECTION TEST.
- SIGNAGE.



FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30. FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36. FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39. FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

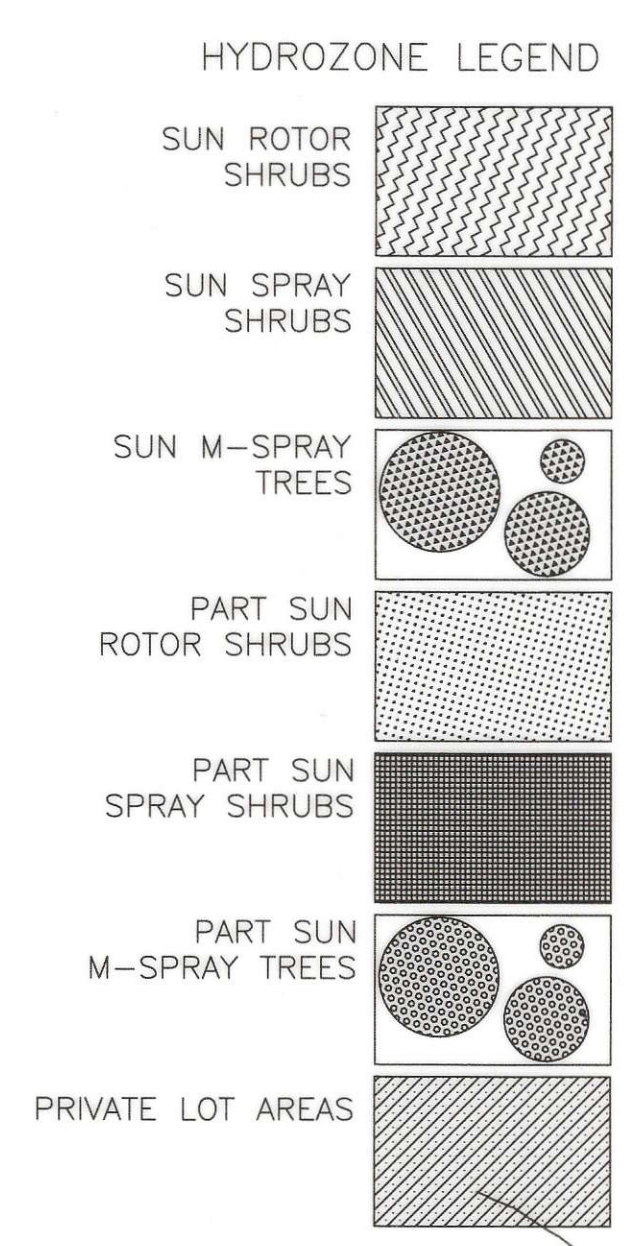
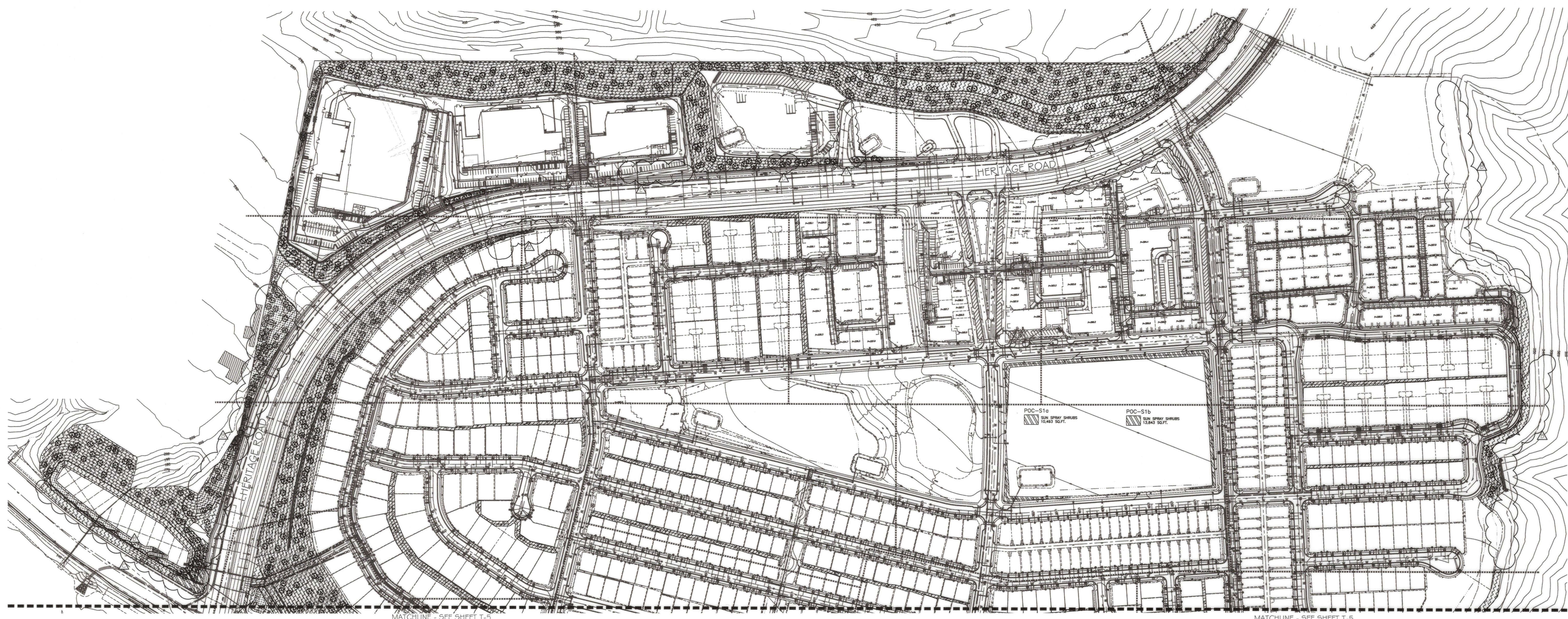
R.I. IDENTIFICATION BY COLOR CODING:  
SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RINGS OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

• THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
• NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
• ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.



<b>OTAY WATER DISTRICT</b> Project No. 00944-060189 LRWS No. 2019-00134 P.Z. 624, 711 R.P.Z. 680 REVIEWED BY: <i>JA</i> DATE: 5/10/19 NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE.		"AS-BUILT" SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____		IT'S THE LAW! DIAL BEFORE YOU DIG!  CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	REGISTERED LANDSCAPE ARCHITECT THOMAS A. PICARD ARCHITECT  2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	Tributary LA, Inc. Landscape Architecture and Planning DATE: 23 MAY '22 SCALE: 1" = 160' JOB NO. 15024 DRAWN BY: T.P. / T.G.M. W.O. NO. OR-3001G
CITY OF CHULA VISTA RECYCLED WATER AREA USE MAP <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02			Drawing No. <b>16050 - 03</b> Sheet 03 of 08			

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADJUST IRRIG. FOR FUEL MOD. PLANTINGS. CHANGE DRIP ON WEST END OF PARK FOR RELOCATE METERS SH 4, 5, 10, MAIN ST. AND METERS R-2 & R-20. UPDATE DWD NOTES	5/10/19	JA	DESCRIPTION: BRASS DISK MARKED "SO CITY ENGR." IN 3/4" IRON PIPE. LOCATION: 1/2 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROJECT 10' HIGH SLOPES & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1481) ELEV=629.319' (NAVD88)	Horizontal 1" = 160' Vertical N/A	Field

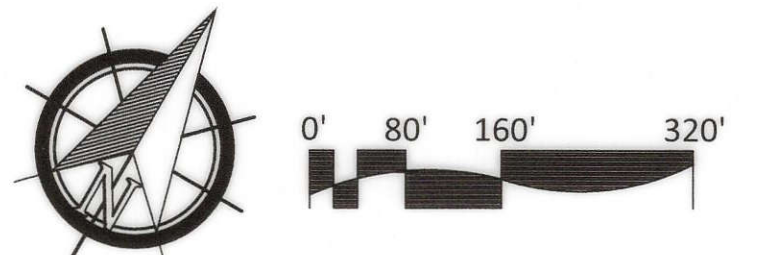
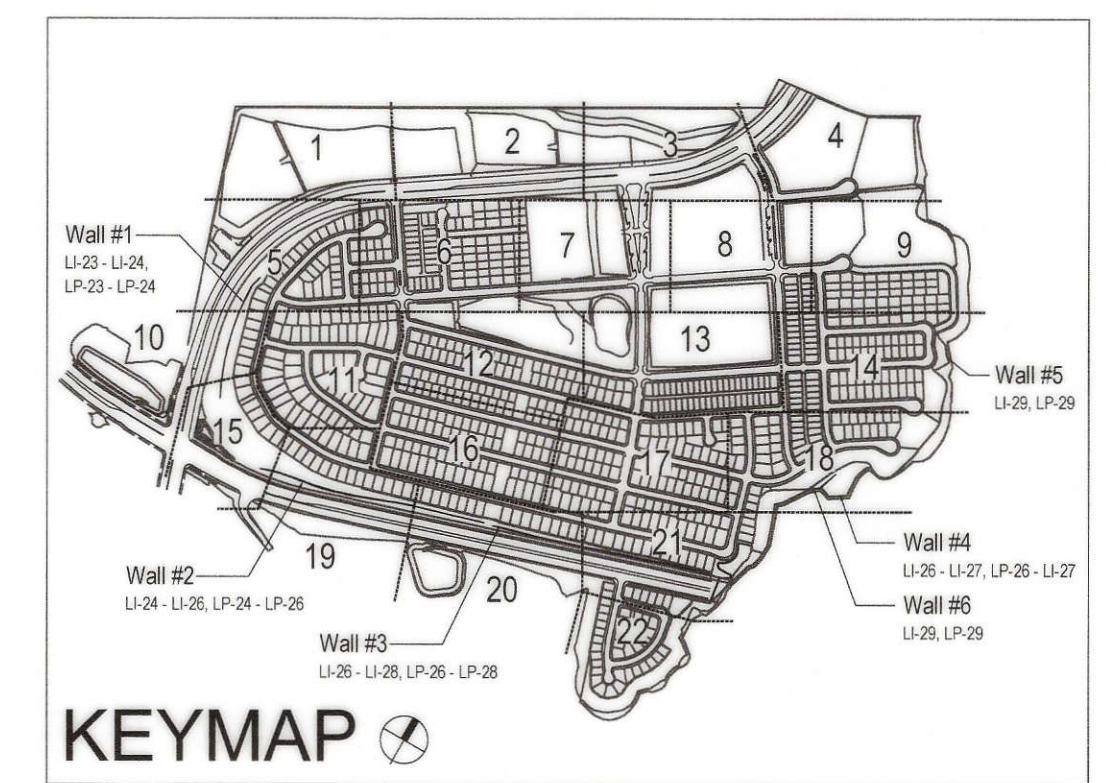


FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30.  
 FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36.  
 FOR WATER PRESSURE CALCULATIONS, SCHEDULING  
 GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39.  
 FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

**R/I IDENTIFICATION BY COLOR CODING.**

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 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.



**OTAY WATER DISTRICT**  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711, R.P.Z. 680

**"AS-BUILT"**

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

**IT'S THE LAW! DIAL BEFORE YOU DIG!**

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

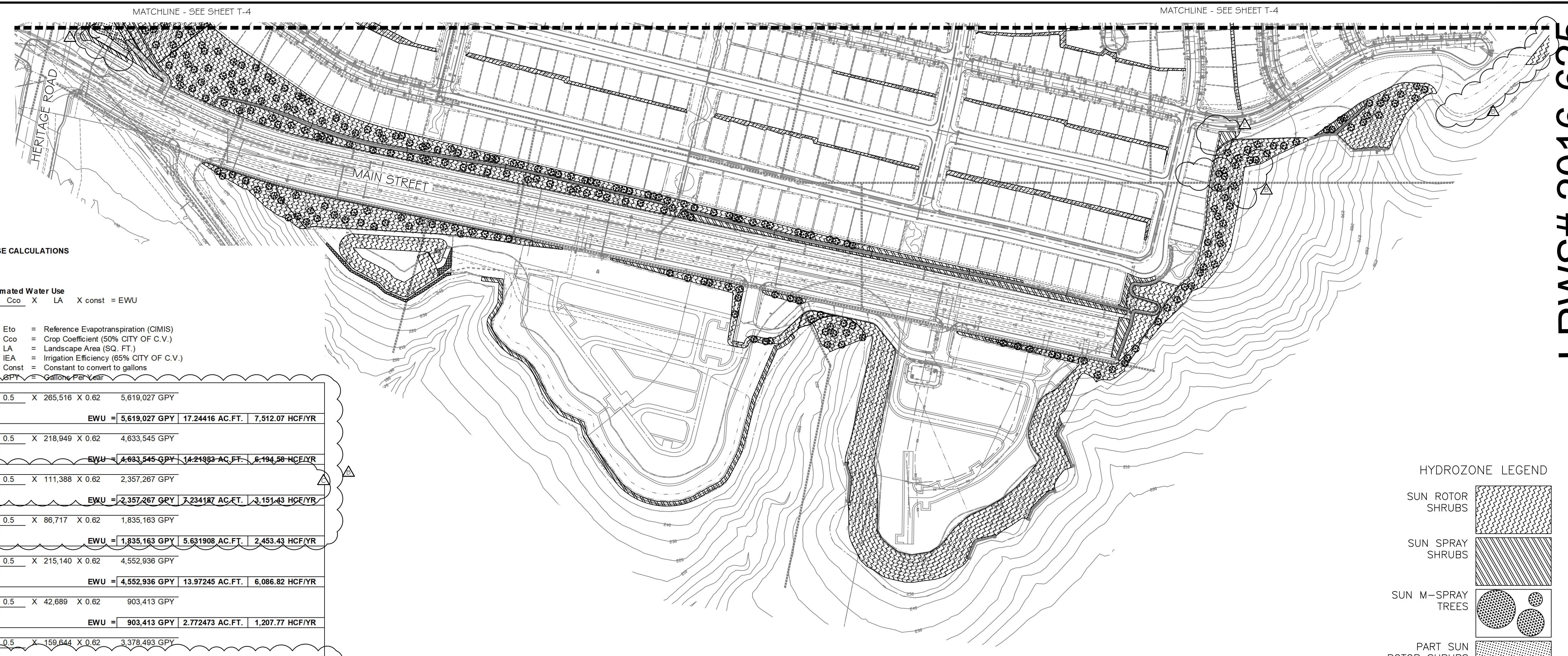


**Tributary LA, Inc.**  
 Landscape Architecture and Planning

2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 7 APR '22  
 SCALE: 1" = 160'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.M.  
 W.O. NO. OR-3001G

<b>CONSTRUCTION RECORD</b>		<b>REFERENCES</b>	<b>BY</b>	<b>REVISIONS</b>	<b>Date</b>	<b>App'd</b>	<b>BENCH MARK</b>	<b>SCALE</b>	<b>Office</b>	<b>Designed By</b>	<b>Drawn By</b>	<b>Checked By</b>	<b>Plans Originally Approved:</b>	<b>5-15-17</b>	<b>CITY OF CHULA VISTA</b>	<b>Drawing No.</b>
Contractor		16026-01 - 16026-93	HUNSAKER & ASSOC.	1. ADD SPRINKLER TO LOT 35-37, IRRIGATE, SUPPLEMENTARY, VERTICALLY, AND FOR EACH OF MAIN IRRIGATION MAINS	5/21/19	TH	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 160'		TH	TH	TH	Plans Prepared Under Supervision Of		HYDROZONE MAP	16050-04
Inspector				2. ADD SPRINKLER TO LOT 35-37, IRRIGATE, SUPPLEMENTARY, VERTICALLY, AND FOR EACH OF MAIN IRRIGATION MAINS	10/23/19	TH	LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF TREATMENT 10' HIGH SOLIDITY 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 14841) ELEV=629.319' (NWD/88)	Vertical N/A		TH	TH	TH	Date: 4 / 7 / 22	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 04 of 88	
Date Completed				3. ADD BRASS FOR ADDED ENTRY DRIVEWAY AT INDUSTRIAL PCD.	7/20/20	TH				TH	TH	TH	Approved: Tiffany Allen Director of Development Services or designee.	CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	REPLACEMENT SHEET	T-4



MAXIMUM APPLIED WATER ALLOWANCE VS. ESTIMATED WATER USE CALCULATIONS  
OTAY RANCH VILLAGE 3 EROSION CONTROL  
CHULA VISTA, CA

Table with columns for POC (e.g., SE, SD, SB, SB2, SC, SA1, SA2, SI, SH, SG, BB, S-1a, S-1b, R-14, R-16, MU-1, MU-2, TYPICAL HOME OWNER SLOPE), Eto, ETAF, LA, Const, MAWA, Eto, Cco, IEA, X, LA, X const, EWU. Includes formulas for MAWA and EWU.

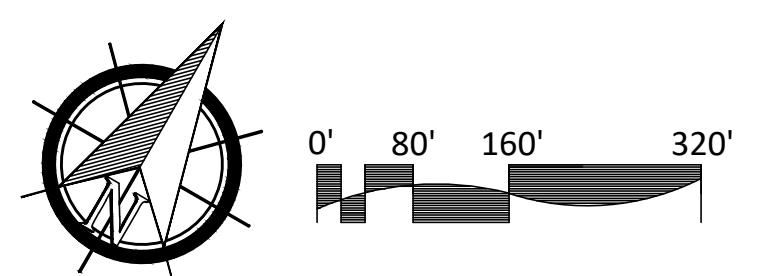
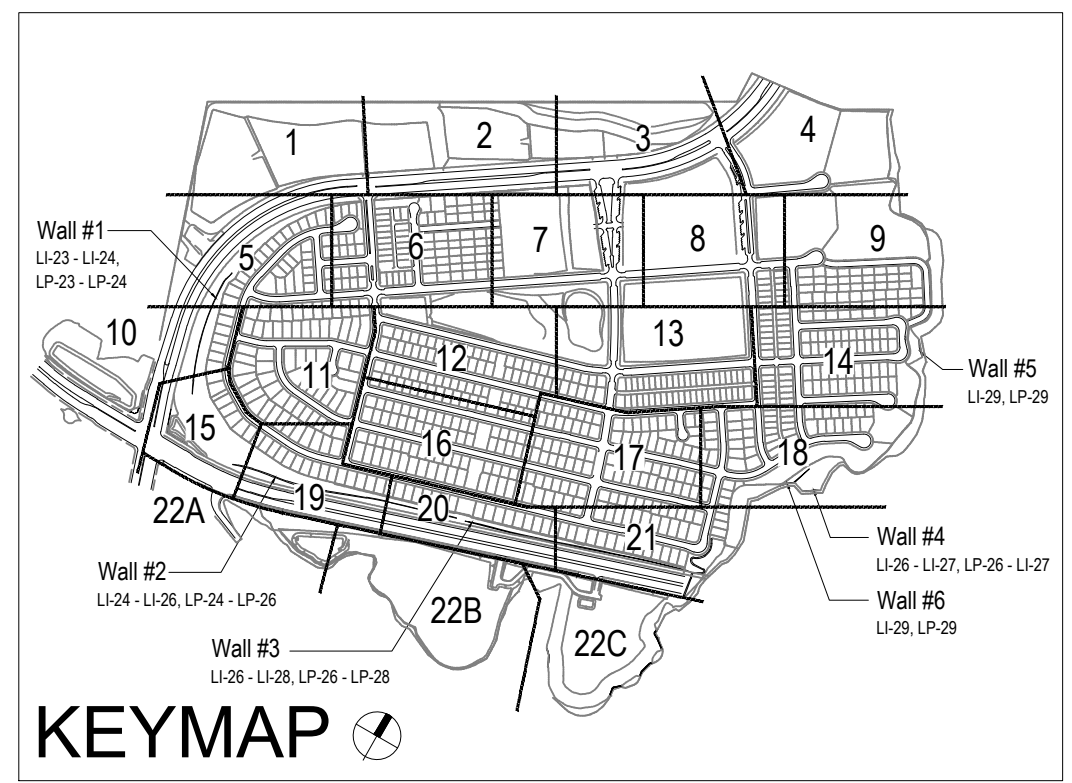
Summary table for POC R-20 and POC R-6, showing MAWA, EWU, and AC.FT. values.

NOTE: LANDSCAPE AREA FOR MAWA AND EWU CALCULATIONS INCLUDES PLAN VIEW AREA OF TREE CANOPIES AS ILLUSTRATED IN THE LANDSCAPE PLANTING PLANS.

FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30. FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36. FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39. FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

R/W IDENTIFICATION BY COLOR CODING. SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

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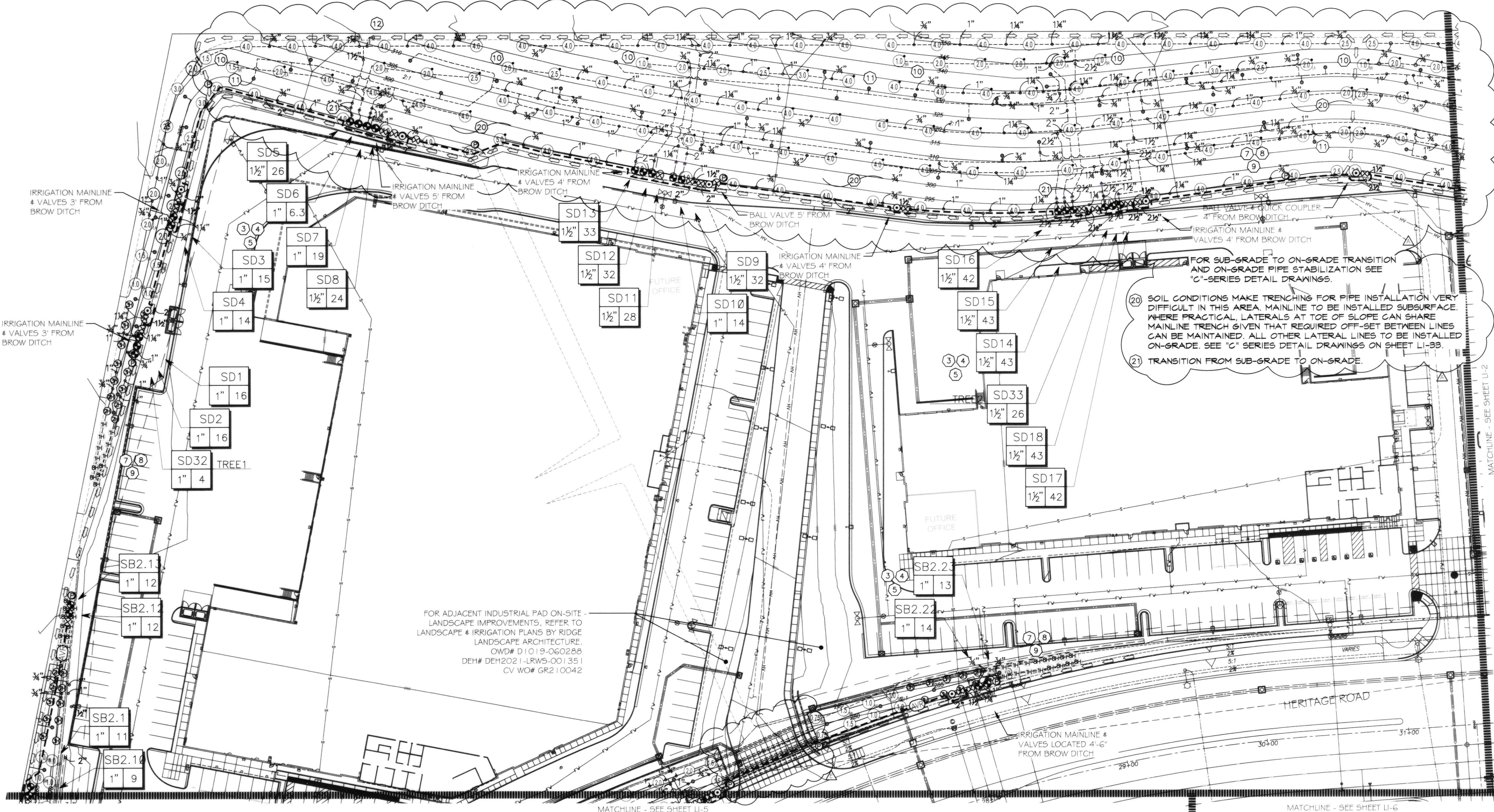
OWD# D1019-060288  
POC DEH# DEH2021-LRWS-001351  
CV WO# GR210042

Professional stamps and forms including: OTAY WATER DISTRICT project info, 'AS-BUILT' stamp, IT'S THE LAW! DIAL BEFORE YOU DIG! stamp, TRIBUTARY LA, Inc. stamp, and various permit and approval stamps.

CONSTRUCTION RECORD table with columns: Contractor, Inspector, Date Completed, REFERENCES, BY, REVISIONS, Date, App'd, BENCH MARK, SCALE, Office, Field, Traffic, Designed By, Drawn By, Checked By, Plans Originally Approved, Date, Approved, Director of Development Services or designee, Drawing No., and Sheet info.

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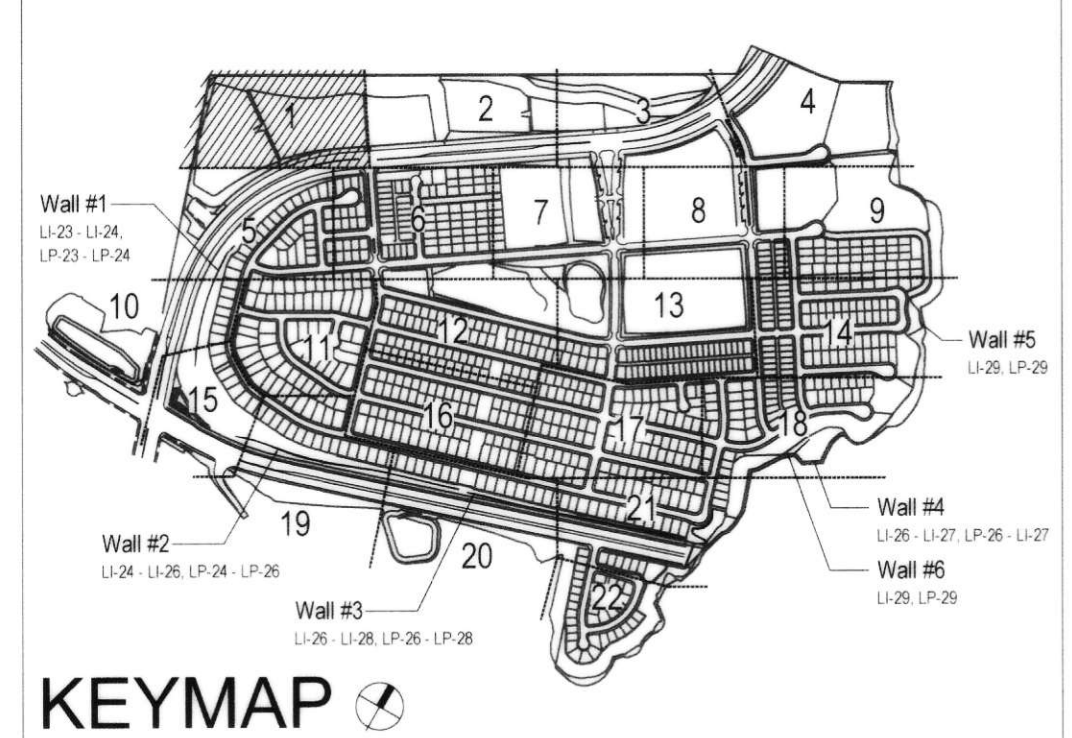
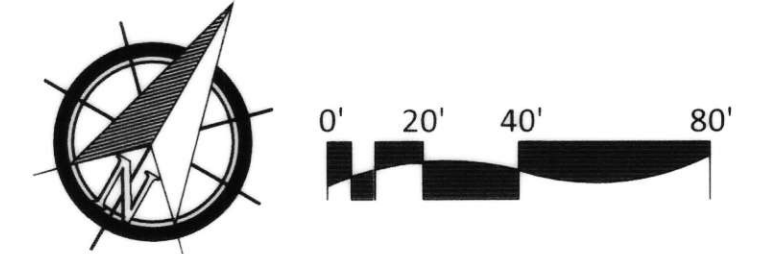
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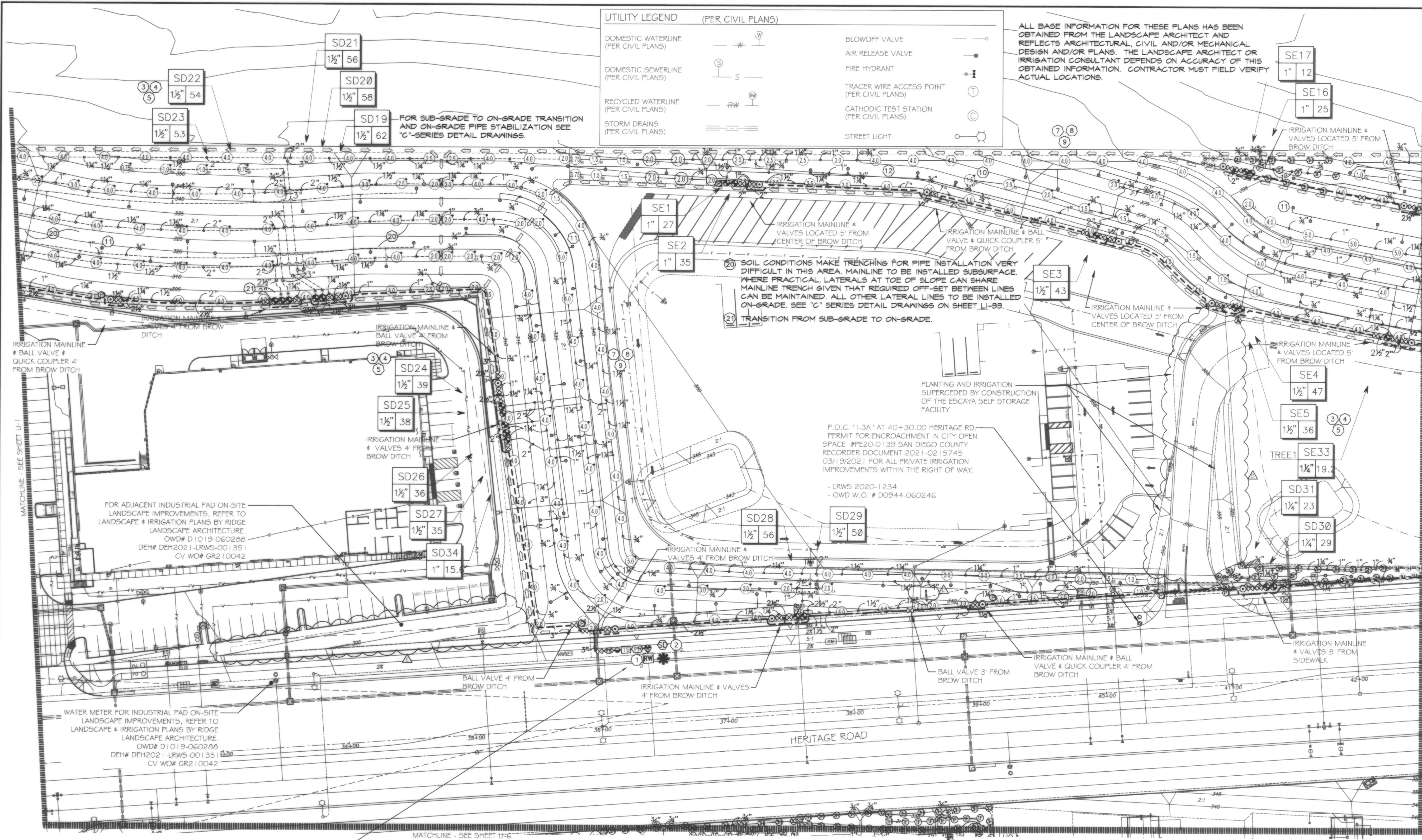
UTILITY LEGEND (PER CIVIL PLANS)

DOMESTIC WATERLINE (PER CIVIL PLANS)		BLOWOFF VALVE	
DOMESTIC SEWERLINE (PER CIVIL PLANS)		AIR RELEASE VALVE	
RECYCLED WATERLINE (PER CIVIL PLANS)		FIRE HYDRANT	
STORM DRAINS (PER CIVIL PLANS)		TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	
		CATHODIC TEST STATION (PER CIVIL PLANS)	
		STREET LIGHT	

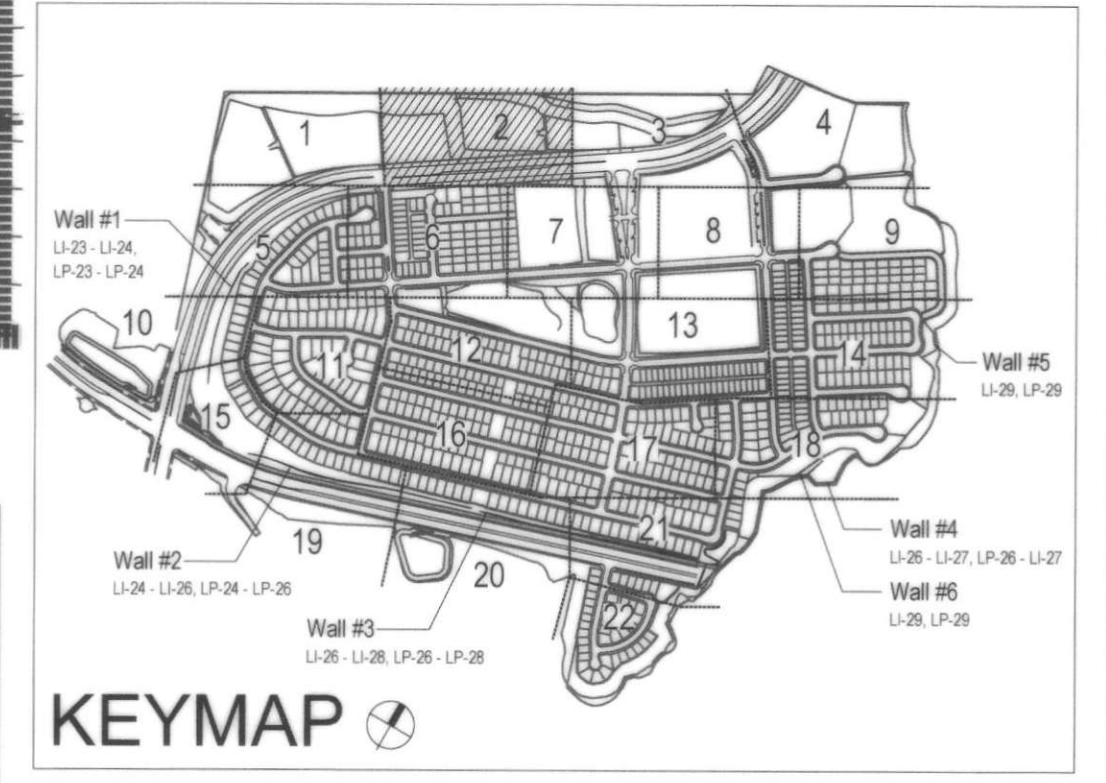
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CONTRACTOR: <b>HUNSAKER &amp; ASSOC.</b>	REFERENCES: <b>16026-01 - 16026-93</b>	BY: <b>HUNSAKER &amp; ASSOC.</b>	REVISIONS:	DATE: <b>7/9/16</b>	APP'D: <b>[Signature]</b>	BENCH MARK: <b>BRASS IRON MARKED '30 CITY ENGR.' IN 3/4" IRON PIPE. LOCATION: 1.2 MILES EAST OF INTER. OF MAIN ST. &amp; HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER &amp; 1700' SOUTHERLY OF WATER STORAGE FACILITY. (78' 1359 PER R.O.S. 14841) ELEV=629.319' (NAD83)</b>	SCALE: <b>Horizontal: 1" = 40'</b>	Office: <b>Field</b>	Designed By: <b>THOMAS A. PICARD</b>	Drawn By: <b>THOMAS A. PICARD</b>	Checked By: <b>[Signature]</b>	Plans Originally Approved: <b>5-15-17</b>	<b>CITY OF CHULA VISTA</b>	Drawing No.: <b>16050 - 09</b>
Inspector: _____													<b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b>	Sheet <b>09</b> of <b>88</b>



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**VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC 'SD' SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD**

1-1/2" RECYCLED WATER METER  
40 STATION CONTROLLER "SD"  
STATIONS USED: 1-34 / OPEN STATIONS: 35-40  
MODEL# SA-RM-40 / FSP-1508 / BYR / PMR-CAC / RSE / LPP / GR-K  
BY SIREONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION-STATPT.	HERITAGE RD. 38+40	1-1/2" WYE STRAINER	
POC ELEVATION	325.00 FT.	1-1/2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	153.72 PSI	TEST STATION	
REGULATED PRESSURE	85.00 PSI	1-1/2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	48.83 PSI	1 1/2" FLOW SENSOR	
MAX DEMAND	57 GPM	NOTE: P.O.C. SECURE PER WALS	
AREA SERVED	218,940 SQ. FT.	STD. DWG. WR-03.	
MANVA	21.3287 AC.FT./YR.		
EWU	14.2198 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS	2"		

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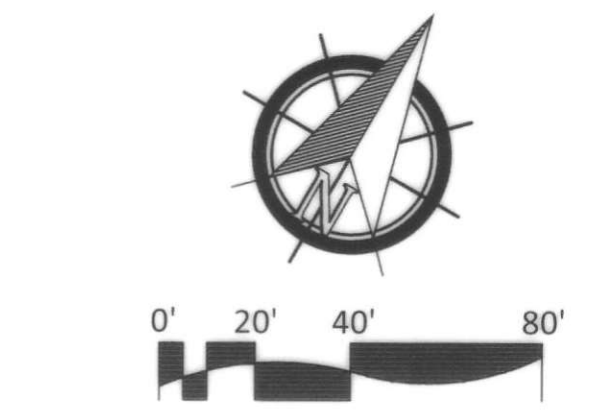
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES AND ON-GRADE IRRIG. PIPE.	7/16/16	OTAY	BRASS BENCH MARKED 'SD' CITY BENCH * IN 3/4" IRON PIPE
Inspector			ADD IRRIG. TO NEW DRAINAGE TO IND. PADS & TREES.	5/21/16	OTAY	1.5 MILES EAST OF INTD. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (78' 1300' PER R.O.S. 14841) ELEV=629.319' (NAVD88)
Date Completed			ADJUST FOR INDUSTRIAL PAD 1-2	4-20-16	OTAY	

Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17
Field	THOMAS A. PICARD			Supervision Of	
Traffic				Date	4 / 7 / 22
				R.L.A. No.	4001
				Approved:	Tiffany Allen
				Director of Development Services or designee.	

REVIEWED BY:	DATE:	DISCIPLINE:	REGIST. EXP.
		LANDSCAPE ARCHITECT	



**"AS-BUILT"**

OTAY WATER DISTRICT  
Project No. D0944-060189 LRWS No.2019-00134  
P.Z. 624, 711. R.P.Z. 880

IT'S THE LAW!  
DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

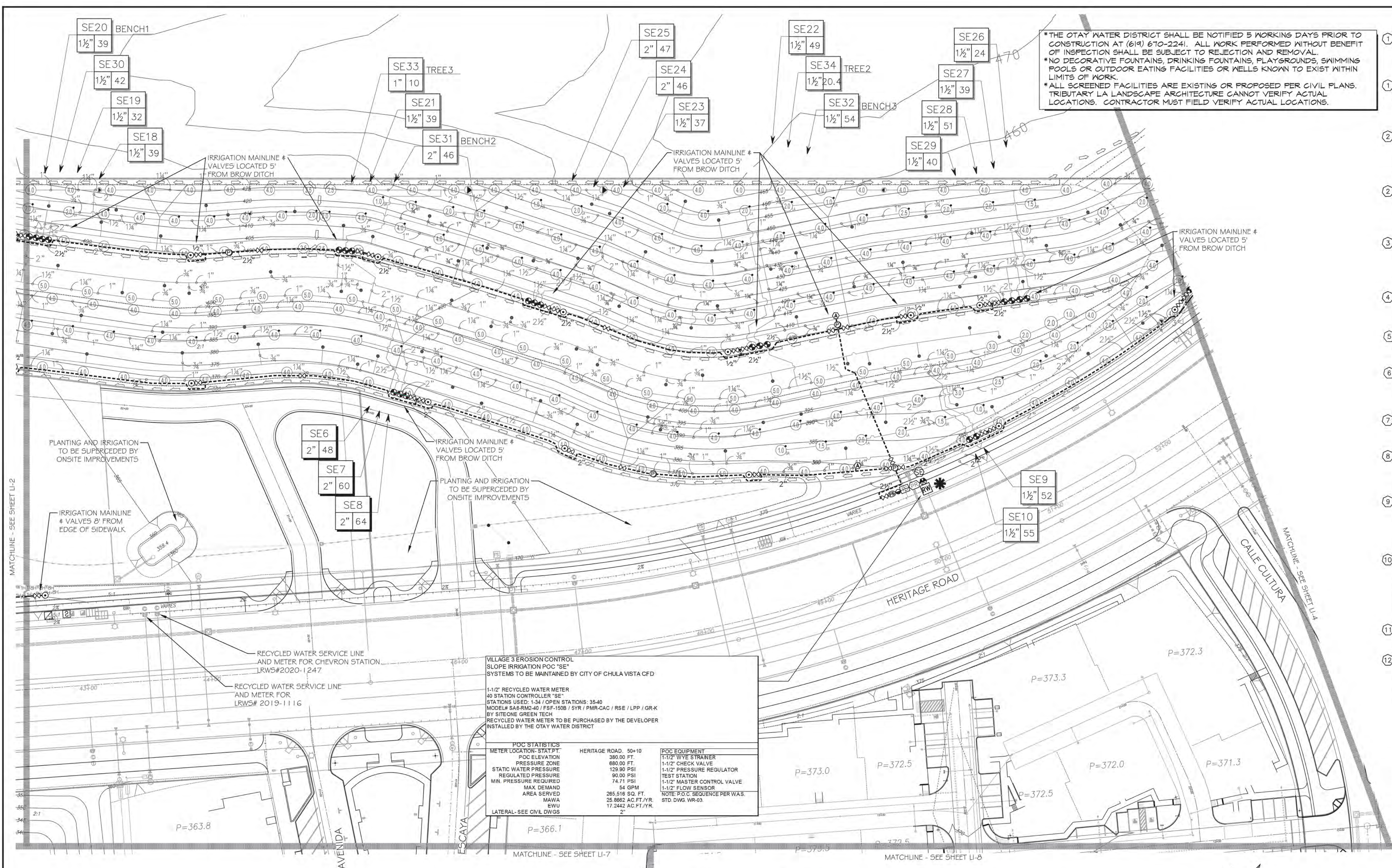
**REGISTERED LANDSCAPE ARCHITECT**  
THOMAS A. PICARD  
7/20/23  
572722

**Tributary LA, Inc.**  
Landscape Architecture and Planning

DATE: Δ 7 APR 22  
SCALE: 1" = 40'  
JOB NO. 15024  
DRAWN BY: T.P. / T.G.M.  
W.O. NO. OR-3001G

2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office 760.434.9303 fax

Print Date: 7 APR '22 OWD WO# D0944-060189 Otay Ranch, Village 3 - Slope & Erosion Control



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#### UTILITY LEGEND (PER CIVIL PLANS)

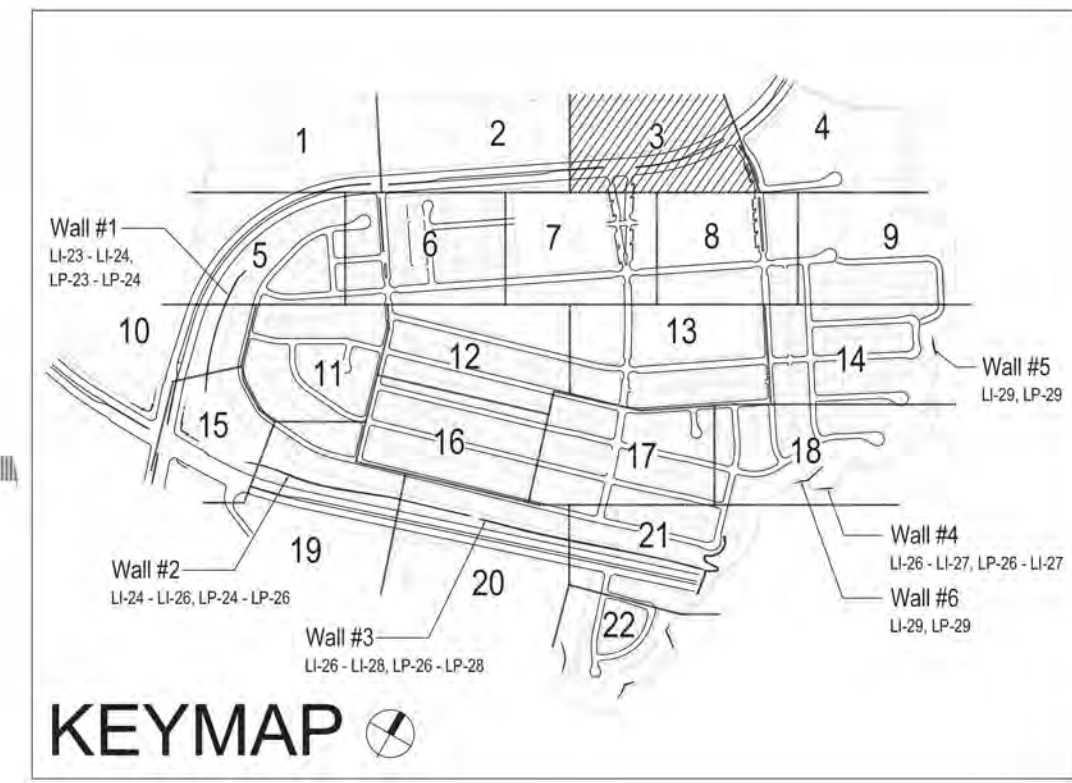
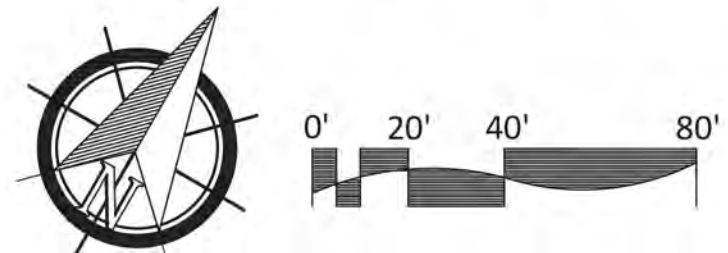
DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
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	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

#### POC STATISTICS

METER LOCATION- STAT PT.	HERITAGE ROAD, 50+10	POC EQUIPMENT
POC ELEVATION	380.00 FT.	1 1/2" WYE STRAINER
PRESSURE ZONE	680.00 FT.	1 1/2" CHECK VALVE
STATIC WATER PRESSURE	129.90 PSI	1 1/2" PRESSURE REGULATOR
REGULATED PRESSURE	90.00 PSI	TEST STATION
MIN. PRESSURE REQUIRED	74.71 PSI	1 1/2" MASTER CONTROL VALVE
MAX DEMAND	54 GPM	1 1/2" FLOW SENSOR
AREA SERVED	265,518 SQ. FT.	NOTE: P.O.C. SEQUENCE PER WAS. STD. DWG. WR-03.
MAWA	25.8662 AC. FT./YR.	
EWU	17.2442 AC. FT./YR.	
LATERAL- SEE CIVIL DWGS		

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 FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39.  
 FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.



CONTRACTOR	16026-01 - 16026-93	BY	HUNSAKER & ASSOC.	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.	
Inspector							DESCRIPTION: BRASS DISK MARKED "SO CITY ENGR." IN 3/4" IRON PIPE. LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH ROADBOR & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PFB 1359 PER R.O.S. 1481) ELEV=629.319' (NAVD 88)	Horizontal 1" = 40' Vertical N/A	Field	Thomas A. Picard	Thomas A. Picard	Supervision Of Date: 10/4/21 R.L.A. No. 4001	Approved: Tiffany Allen Director of Development Services or designee.		OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 11
Date Completed														REPLACEMENT SHEET	Sheet 11 of 88	

**"AS-BUILT"**

SIGNED: *THP* DATE: 10/25/21

PRINT NAME: THOMAS PICARD R.L.A. # 4001

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

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CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING

1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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**Tributary LA, Inc.**  
Landscape Architecture and Planning

DATE: 25 OCT '21

SCALE: 1" = 40'

JOB NO. 15024

DRAWN BY: T.P. / T.G.M.

W.O. NO. OR-3001G

2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office 760.434.9303 fax



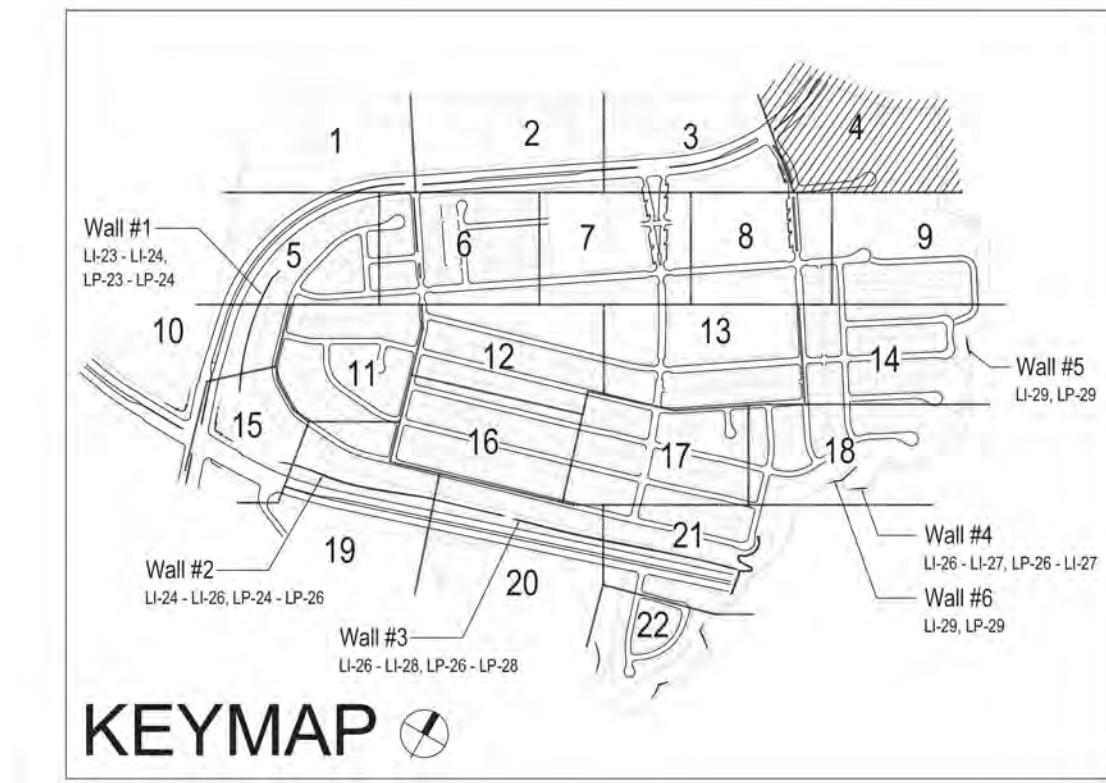
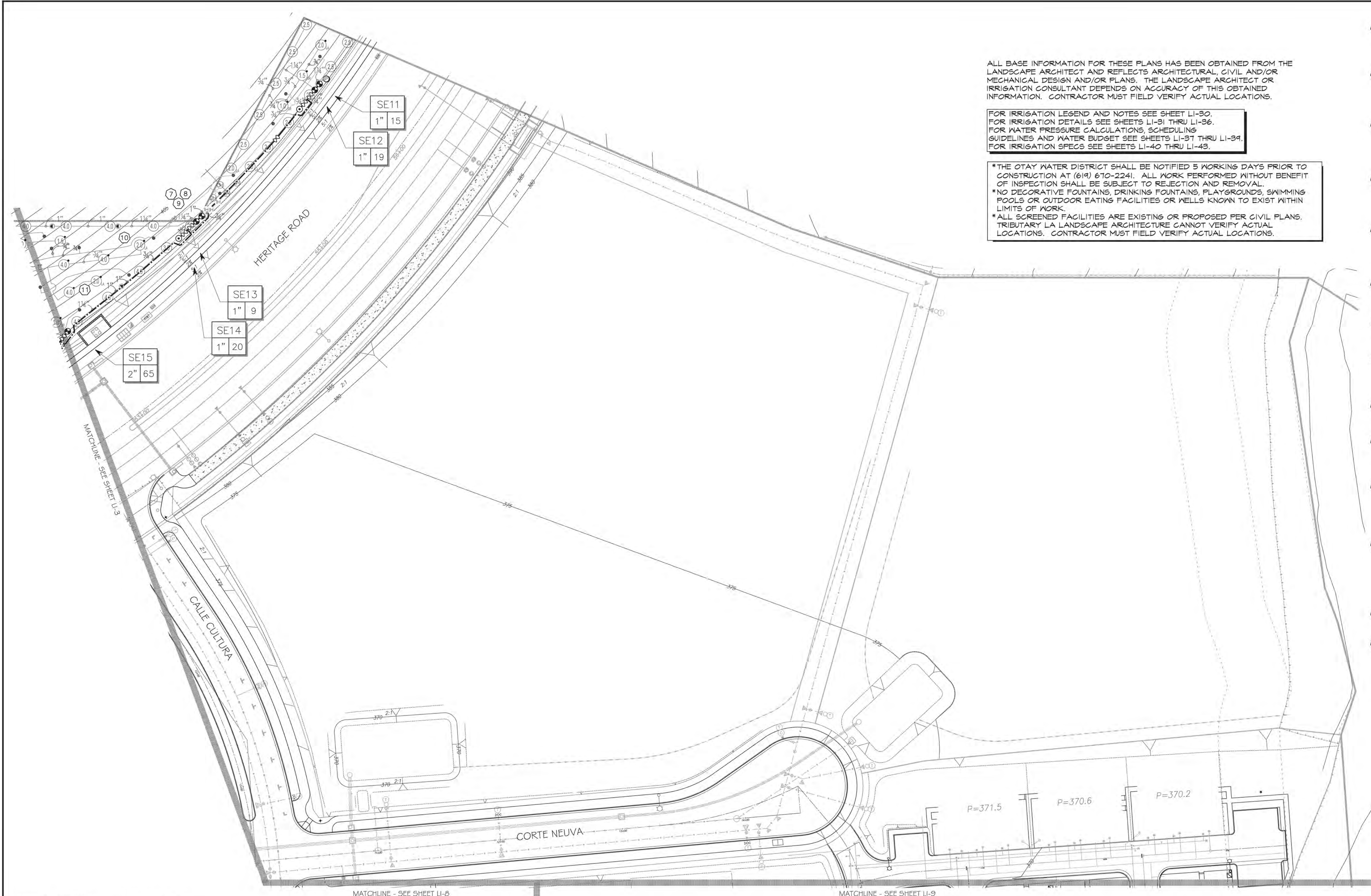
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ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

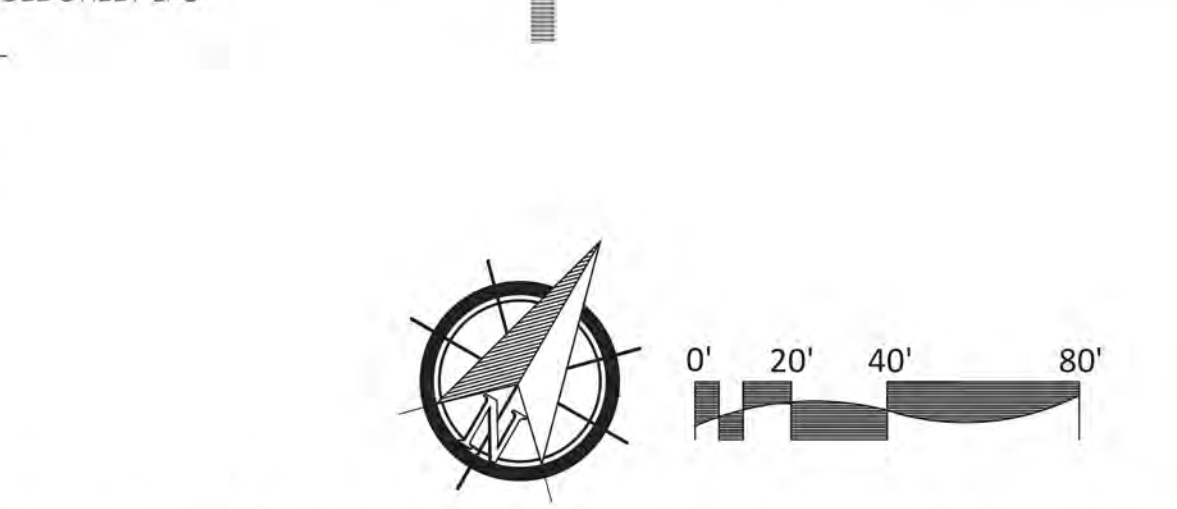
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	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT



**"AS-BUILT"**

SIGNED: *THP* DATE: 10/25/21

PRINT NAME: THOMAS PICARD R.L.A. # 4001

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

OTAY WATER DISTRICT  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680

REVIEWED BY: *JA* DATE: 5/10/19  
 NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE

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**REGISTERED LANDSCAPE ARCHITECT**  
 THOMAS A. PICARD  
 9/30/23  
 10/25/21  
 CALIFORNIA

**Tributary LA, Inc.**  
 Landscape Architecture and Planning

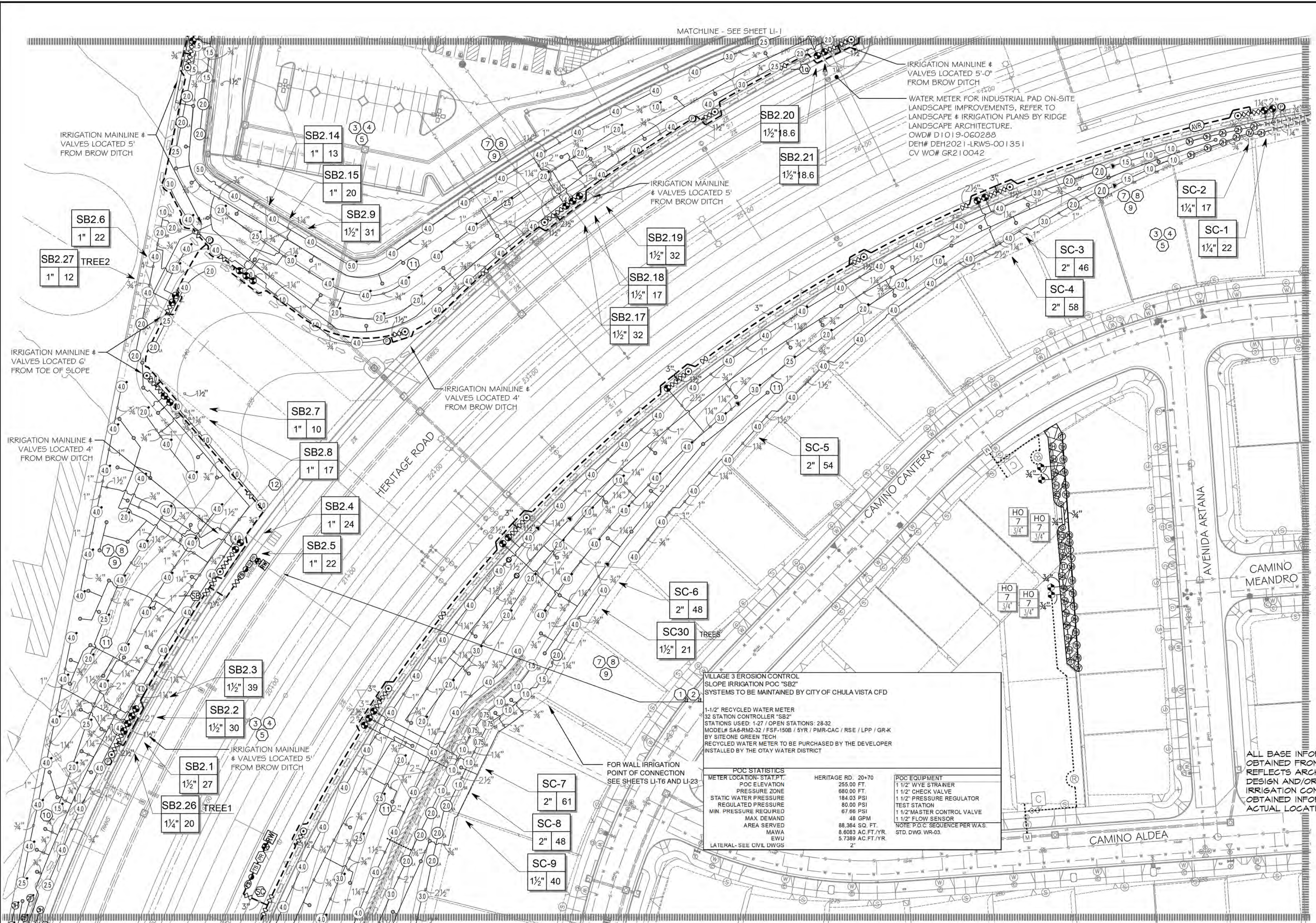
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2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
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Inspector			RE-ALIGN BROWN DITCH & ADJ. IRRIG. TO FUEL MOD.	5/20/19	<i>THP</i>	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH SLOPE & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1481) ELEV=629.319' (NAVD 88)	Vertical	Field	THP	THP	THP	THP	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 12 of 88	
Date Completed			ADD IRRIGATION TO MISSED TREES.	10/25/21	<i>THP</i>		N/A	Traffic	THOMAS A. PICARD	THP	THP	THP	CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	Sheet 12 of 88	

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MATCHLINE - SEE SHEET LI-10 (Left)

MATCHLINE - SEE SHEET LI-11 (Right)

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	STREET LIGHT

**VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION P.O.C. "SC" SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CDP**

2" RECYCLED WATER METER	40 STATION CONTROLLER "SC"
STATIONS USED: 1-31 / OPEN STATIONS: 32-40	MODEL# S48-RM2-40 / FSF-2008 / SYR / PMR-CAC / RSE / LPP / GR-K (W/ PRO-MAX REMOTE)
BY SITEONE GREEN TECH	RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER
INSTALLED BY THE OTAY WATER DISTRICT	

**POC STATISTICS**

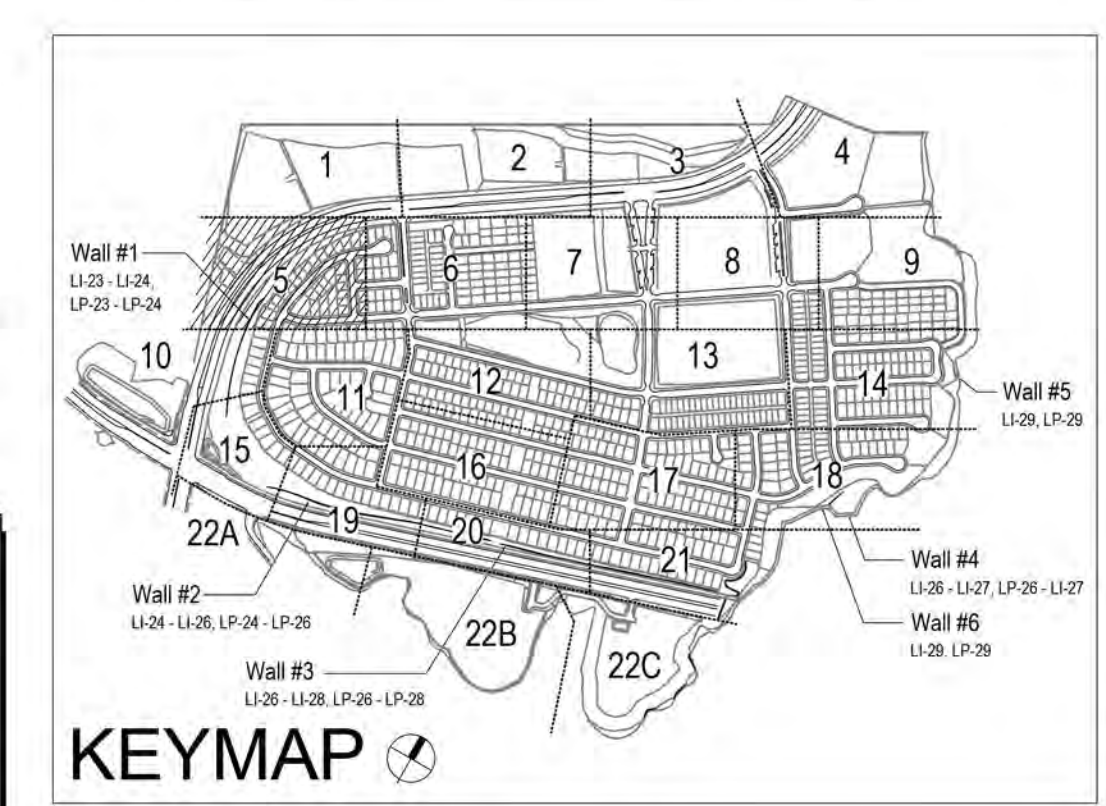
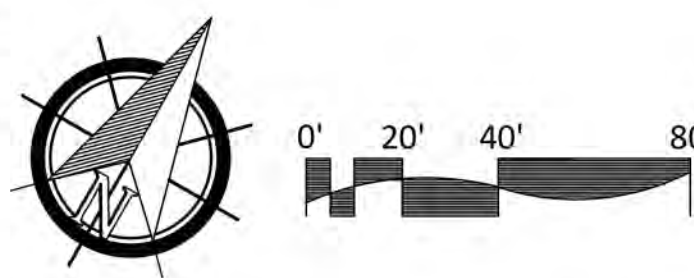
METER LOCATION: STAT PT	HERITAGE RD. 19+00	POC ELEVATION	215.00 FT
PRESSURE ZONE	680.00 FT	STATIC WATER PRESSURE	184.03 PSI
REGULATED PRESSURE	201.35 PSI	MIN. PRESSURE REQUIRED	90.54 PSI
MIN. PRESSURE REQUIRED	65 GPM	MAX DEMAND	215.140 SQ. FT.
AREA SERVED	20.9587 AC.FT./YR.	MAWA	20.9587 AC.FT./YR.
LATERAL-SEE CIVIL DWGS	2"	EWJ	13.9/25 AC.FT./YR.

**POC EQUIPMENT**

1 1/2" WYE STRAINER	2" WYE STRAINER
1 1/2" CHECK VALVE	2" CHECK VALVE
1 1/2" PRESSURE REGULATOR	2" PRESSURE REGULATOR
TEST STATION	2" MASTER CONTROL VALVE
1 1/2" MASTER CONTROL VALVE	2" FLOW SENSOR
1 1/2" FLOW SENSOR	NOTE P.O.C. SEQUENCE PER W.A.S.
	STD. DWG. WR-03

FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30.  
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Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES	7/3/16	[Signature]	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'	Field	Plans Prepared Under Supervision Of	Thomas A. Picard	Checked By	Approved:	9/30/23	LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b>	16050-13
Inspector			ADDED AND/OR ADJUST IRRIGATION FOR TREES	5/22/19	[Signature]	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH BOLLIER & 700' SOUTHWESTLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1484) ELEV=829.319' (NWD88)	Vertical N/A	Traffic	Date	4/24/23	Discipline:	EXP.	CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	Sheet 13 of 88	
Date Completed			FINAL OWD AS BUILT SYST SB2						Reviewed By:	[Signature]	DATE:	9/30/23	REPLACEMENT SHEET	OWD WO# D0944-060189	OWD PERMIT# PLR-16-014

**Tributary LA, Inc.**  
 Landscape Architecture and Planning  
 DATE: 24 APR '23  
 SCALE: 1" = 40'  
 JOB NO: 15024  
 DRAWN BY: T.P. / T.G.M.  
 W.O. NO. OR-3001G

**"AS-BUILT"**  
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 DISCIPLINE: LANDSCAPE ARCHITECT  
 REGIST. EXP. 9/30/23

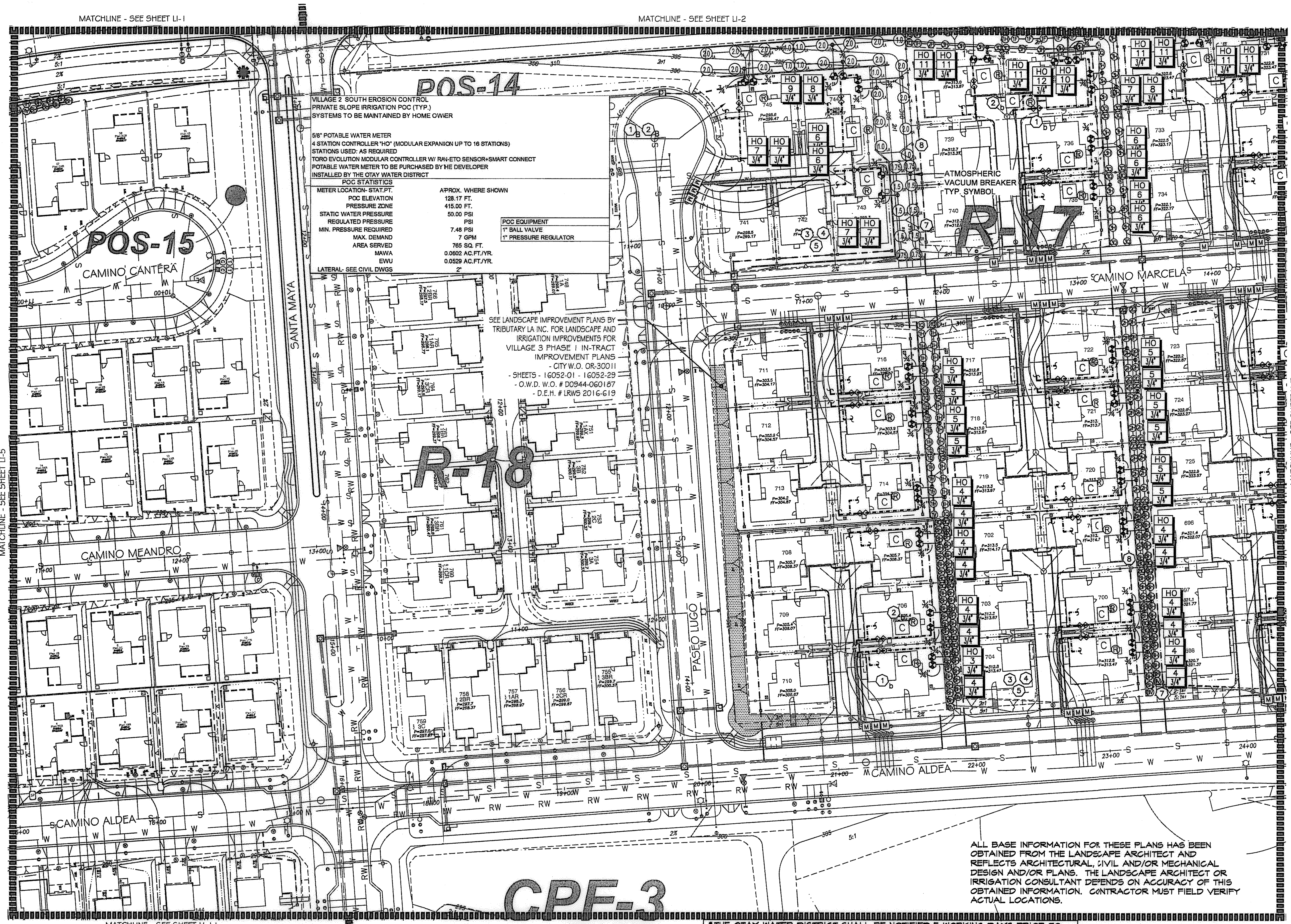
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**REGISTERED LANDSCAPE ARCHITECT**  
 THOMAS A. PICARD  
 9/30/23  
 9/24/23  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

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10. RADIUS AND NOZZLE REDUCTION - SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FILL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF .4IN/HR.
11. HUNTER PROS-00-PR350 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
12. LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRING AND/OR SWING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.



**POC EQUIPMENT**

1" BALL VALVE	1"
1" PRESSURE REGULATOR	1"

**VILLAGE 2 SOUTH EROSION CONTROL PRIVATE SLOPE IRRIGATION POC (TYP.) SYSTEMS TO BE MAINTAINED BY HOME OWNER**

8" POTABLE WATER METER  
4 STATION CONTROLLER 1/4" (MODULAR EXPANSION UP TO 16 STATIONS)  
STATIONS USED: AS REQUIRED  
TORO EVOLUTION MODULAR CONTROLLER W/ RAIN-ETO SENSOR-SMART CONNECT  
POTABLE WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

**METER LOCATION - STAT. PT.**  
POC ELEVATION: 128.17 FT.  
PRESSURE ZONE: 415.00 FT.  
STATIC WATER PRESSURE: 50.00 PSI  
REGULATED PRESSURE: PSI  
MIN. PRESSURE REQUIRED: 7.48 PSI  
MAX. DEMAND: 7 GPM  
AREA SERVED: 765 SQ. FT.  
MAWA: 0.0602 AC.FT./YR.  
EUV: 0.0529 AC.FT./YR.  
LATERAL: SEE CIVIL DWGS

**APPROX. WHERE SHOWN**  
128.17 FT.  
415.00 FT.  
50.00 PSI  
7.48 PSI  
7 GPM  
765 SQ. FT.  
0.0602 AC.FT./YR.  
0.0529 AC.FT./YR.  
2"

SEE LANDSCAPE IMPROVEMENT PLANS BY TRIBUTARY LA INC. FOR LANDSCAPE AND IRRIGATION IMPROVEMENTS FOR VILLAGE 3 PHASE I IN-TRACT IMPROVEMENT PLANS - CITY W.O. OR-30011 - SHEETS - 16052-01 - 16052-29 - D.W.D. W.O. # D0944-060187 - D.E.H. # LRWS 2016-619

ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

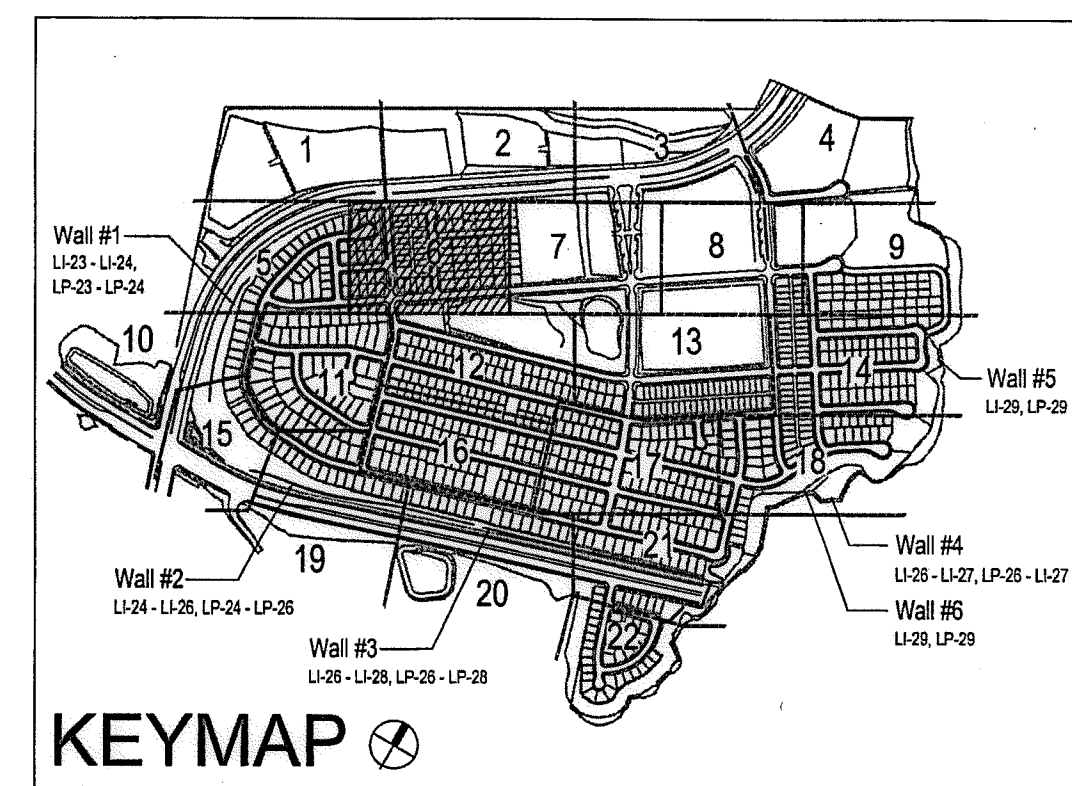
OTAY WATER DISTRICT  
PROJECT NO. D0944-060189  
PZ 624, 711 RPZ 680

REVIEWED BY: *[Signature]* DATE: 5/18/17  
SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

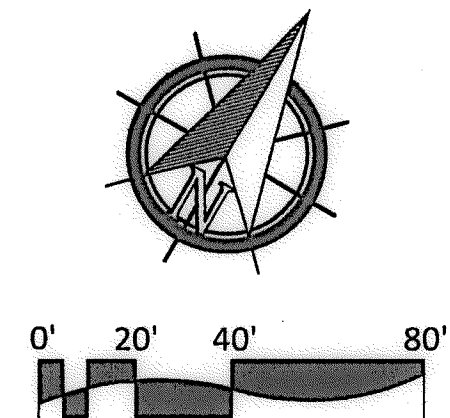
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

FOR IRRIGATION LEGEND SEE SHEET LI-30.  
FOR IRRIGATION NOTES AND DETAILS SEE SHEETS LI-31.  
FOR IRRIGATION DETAILS SEE SHEETS LI-32 THRU LI-37.  
FOR WATER PRESSURE CALCULATIONS SEE SHEETS LI-38 AND LI-39.  
FOR SCHEDULING GUIDELINES SEE SHEETS LI-40 THRU LI-41.  
FOR IRRIGATION SPECS SEE SHEETS LI-42 THRU LI-44.

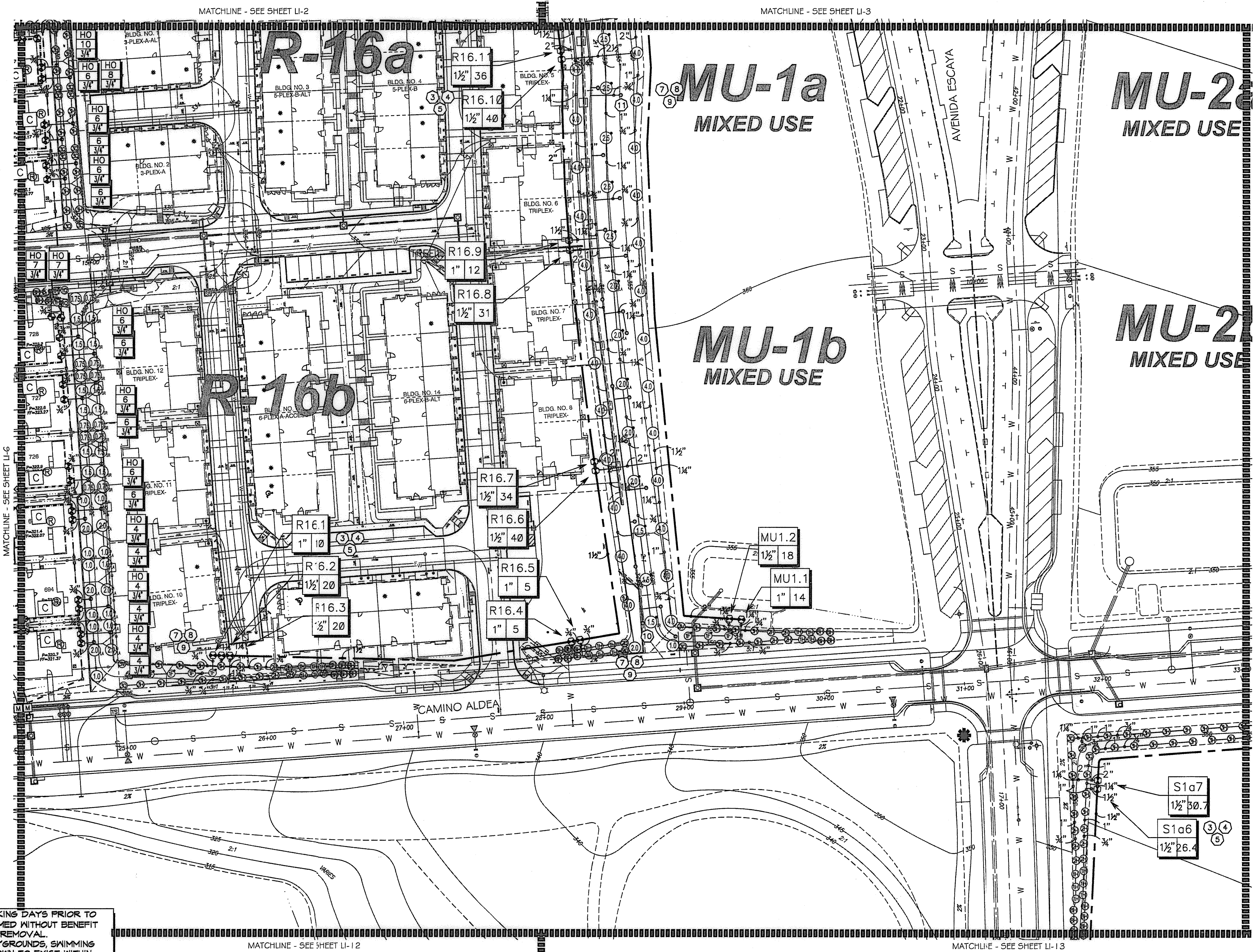


**UTILITY LEGEND (PER CIVIL PLANS)**

DOMESTIC WATERLINE (PER CIVIL PLANS)	W	BLOWOFF VALVE	○
DOMESTIC SEWERLINE (PER CIVIL PLANS)	S	AIR RELEASE VALVE	□
RECYCLED WATERLINE (PER CIVIL PLANS)	RW	FIRE HYDRANT	+
STORM DRAINS (PER CIVIL PLANS)	≡≡≡	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	⊕
		CATHODIC TEST STATION (PER CIVIL PLANS)	⊙
		STREET LIGHT	○



<b>CONSTRUCTION RECORD</b>		<b>REFERENCES</b>		<b>BY</b>		<b>REVISIONS</b>		<b>Date</b>		<b>App'd</b>		<b>BENCH MARK</b>		<b>SCALE</b>		<b>Office</b>		<b>Designed By</b>		<b>Drawn By</b>		<b>Checked By</b>		<b>Approved:</b> <i>[Signature]</i> <b>Date:</b> 5-15-17		<b>CITY OF CHULA VISTA</b>		<b>Drawing No.</b>		
Contractor		16026-01 - 16026-93		HUNSAKER & ASSOC.									DESCRIPTION: BASS DISK MARKED "SO CITY ENGR." IN 3/4" IRON PIPE LOCATION: 5 MILES EAST OF INTX OF MAIN ST. & HERITAGE ST. ON ROCK MOUNTAIN 100' EASTERLY OF BURNING 10' HIGH SLOPERS & 1700' SOUTHERLY 7' WATER STORAGE FACILITY. (P7) 1359 PER R.O.S. (841) ELEV=629.319 (NAVD85)	Horizontal 1" = 40'	Field	Plans Prepared Under Supervision Of Date THOMAS A. PICARD														16050-14
Inspector														Vertical N/A	Traffic															
Date Completed																														



- CONSTRUCTION NOTES:**
- IRRIGATION P.O.C. LOCATION SHOWN HAS BEEN COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THIS SERVICE. INSTALL BACKFLOW PREVENTION DEVICE, FLOW CONTROL AND MONITORING EQUIPMENT AND EXTEND SYSTEM AS SHOWN.
  - IRRIGATION P.O.C. FOR PRIVATE SYSTEMS - CONTRACTOR SHALL INSTALL A 1-1/4" TEE DOWNSTREAM OF A DEDICATED FLOW METER. INSTALL AN ISOLATION VALVE AND PRESSURE REGULATOR IN A RECTANGULAR VALVE BOX AND EXTEND SYSTEM AS SHOWN. SEE DETAIL B12 ON SHEET LI-32.
  - IRRIGATION CONTROLLER- 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL ROUTE POWER CABLE TO CONTROLLER IN PVC CONDUIT AND MAKE PERMANENT CONNECTION TO THE CONTROLLER. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
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  - REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)
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  - DRIVEWAY AND SIDEWALK CROSSINGS- MAINLINE LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
  - ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
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  - HUNTER PROS-00-PR350 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
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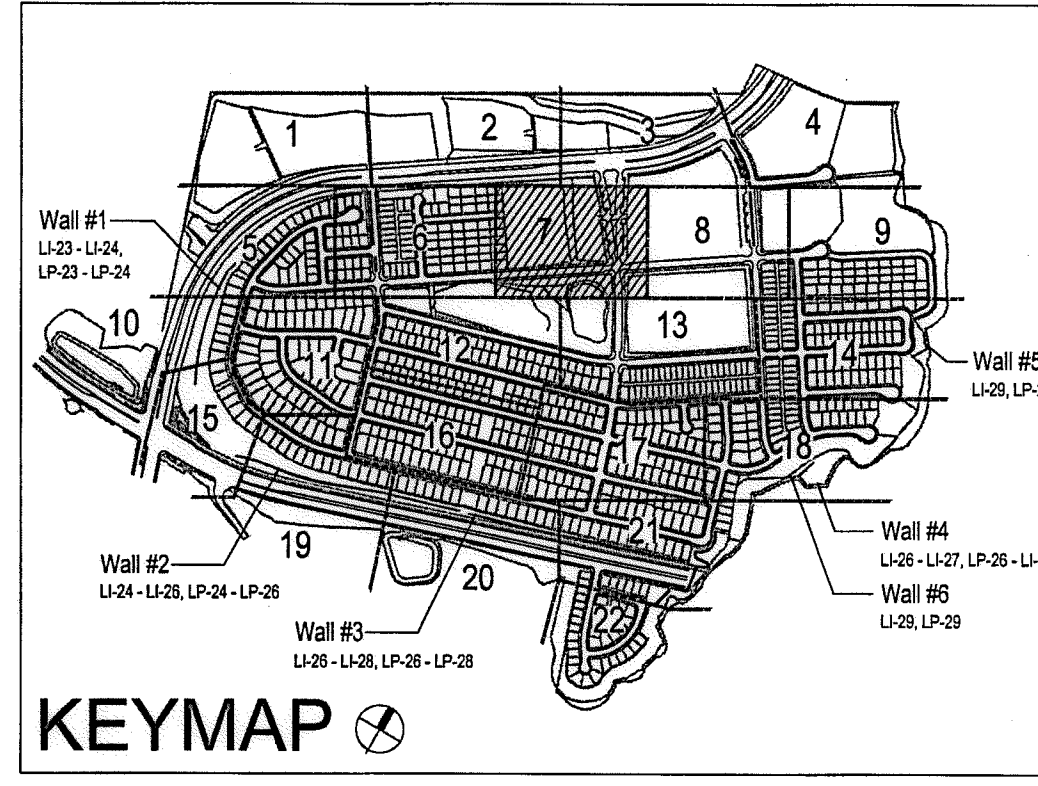
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**UTILITY LEGEND (PER CIVIL PLANS)**

DOMESTIC WATERLINE (PER CIVIL PLANS)	W	BLOWOFF VALVE	○
DOMESTIC SEWERLINE (PER CIVIL PLANS)	S	AIR RELEASE VALVE	□
RECYCLED WATERLINE (PER CIVIL PLANS)	RW	FIRE HYDRANT	⊕
STORM DRAINS (PER CIVIL PLANS)	≡≡≡	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	⊙
		CATHODIC TEST STATION (PER CIVIL PLANS)	⊙
		STREET LIGHT	○

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**OTAY WATER DISTRICT**  
 PROJECT NO. D0944-060189  
 PZ 624, 711 RPZ 680  
 REVIEWED BY: [Signature] DATE: 5/14/17  
 SIGNATURE EXPIRES AFTER 1 YEAR

**"AS-BUILT"**  
 SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

**REGISTERED LANDSCAPE ARCHITECT**  
 THOMAS A. PICARD  
 CALIFORNIA  
 4947

**Tributary LA, Inc.**  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

DATE: 10 APR '17  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.  
 W.O. NO. OR-3001G

CONTRACTOR	16026-01 - 16026-93	HUNSAKER & ASSOC.	DATE	APP'D	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	APPROVED	DATE	CITY OF CHULA VISTA	Drawing No.
Inspector					DESCRIPTION: BRASS DISK MARKED "SD CIVIL ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'	Field	Plans Prepared Under Supervision Of			Approved: <u>[Signature]</u>	5-15-17	LANDSCAPE IRRIGATION PLAN FOR:	16050-15
Date Completed					LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. 871' 1359' PER R.O.S. 14841' EBY 629.319' (NAD83)	Vertical N/A	Traffic	THOMAS A. PICARD		4001	Kelly Broughton		OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 15 of 88

Print Date: 10 APR '17 OWD WO# D0944-060189 Otay Ranch, Village 3 - Slope & Erosion Control

CONSTRUCTION NOTES:

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MIXED USE

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "R-14" SYSTEMS TO BE MAINTAINED BY SUB-ASSOCIATION

1-1/2" RECYCLED WATER METER  
12 STATION CONTROLLER "R-14"  
STATIONS USED: 1-7 / OPEN STATIONS: 8 - 12  
MODEL# SA6-RM20-12 / PSF-150P / RSE / LPP / GR-K  
BY SITEONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		CALLE CULTURA 14+00	
METER LOCATION- STAT.PT.	370.00 FT.	POC ELEVATION	370.00 FT.
PRESSURE ZONE	680.00 FT.	PRESSURE ZONE	680.00 FT.
STATIC WATER PRESSURE	134.23 PSI	MIN. PRESSURE REQUIRED	70.00 PSI
REGULATED PRESSURE	70.00 PSI	MAX. DEMAND	48 GPM
MIN. PRESSURE REQUIRED	58.79 PSI	AREA SERVED	11,892 SQ. FT.
MAWA	1.973 AC.FT./YR.	EWU	0.7782 AC.FT./YR.
EVU	2"	LATERAL- SEE CIVIL DWGS	

POC EQUIPMENT  
1-1/2" WYE STRAINER  
1-1/2" CHECK VALVE  
1-1/2" PRESSURE REGULATOR  
TEST STATION  
1-1/2" MASTER CONTROL VALVE  
1-1/2" FLOW SENSOR  
NOTE P.O.C. SEQUENCE PER W.A.S.  
STD. DWG. WR-03

CPF-1\*

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "S-1b" SYSTEMS TO BE MAINTAINED BY SUB-ASSOCIATION

1.5" RECYCLED WATER METER  
12 STATION CONTROLLER "S-1b"  
STATIONS USED: 1-8 / OPEN STATIONS: 9-12  
MODEL# SA6-RM20-12 / PSF-150P / RSE / LPP / GR-K  
BY SITEONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		CAMINO ALDEA 35+10	
METER LOCATION- STAT.PT.	350.00 FT.	POC ELEVATION	350.00 FT.
PRESSURE ZONE	680.00 FT.	PRESSURE ZONE	680.00 FT.
STATIC WATER PRESSURE	142.89 PSI	MIN. PRESSURE REQUIRED	77.11 PSI
REGULATED PRESSURE	80.00 PSI	MAX. DEMAND	48 GPM
MIN. PRESSURE REQUIRED	67.92 PSI	AREA SERVED	13,843 SQ. FT.
MAWA	10,493 SQ. FT.	EWU	1.3468 AC.FT./YR.
EVU	1.0222 AC.FT./YR.	LATERAL- SEE CIVIL DWGS	0.88904 AC.FT./YR.
LATERAL- SEE CIVIL DWGS	2"		

POC EQUIPMENT  
1-1/2" WYE STRAINER  
1-1/2" CHECK VALVE  
1-1/2" PRESSURE REGULATOR  
TEST STATION  
1-1/2" MASTER CONTROL VALVE  
1-1/2" FLOW SENSOR  
NOTE P.O.C. SEQUENCE PER W.A.S.  
STD. DWG. WR-03

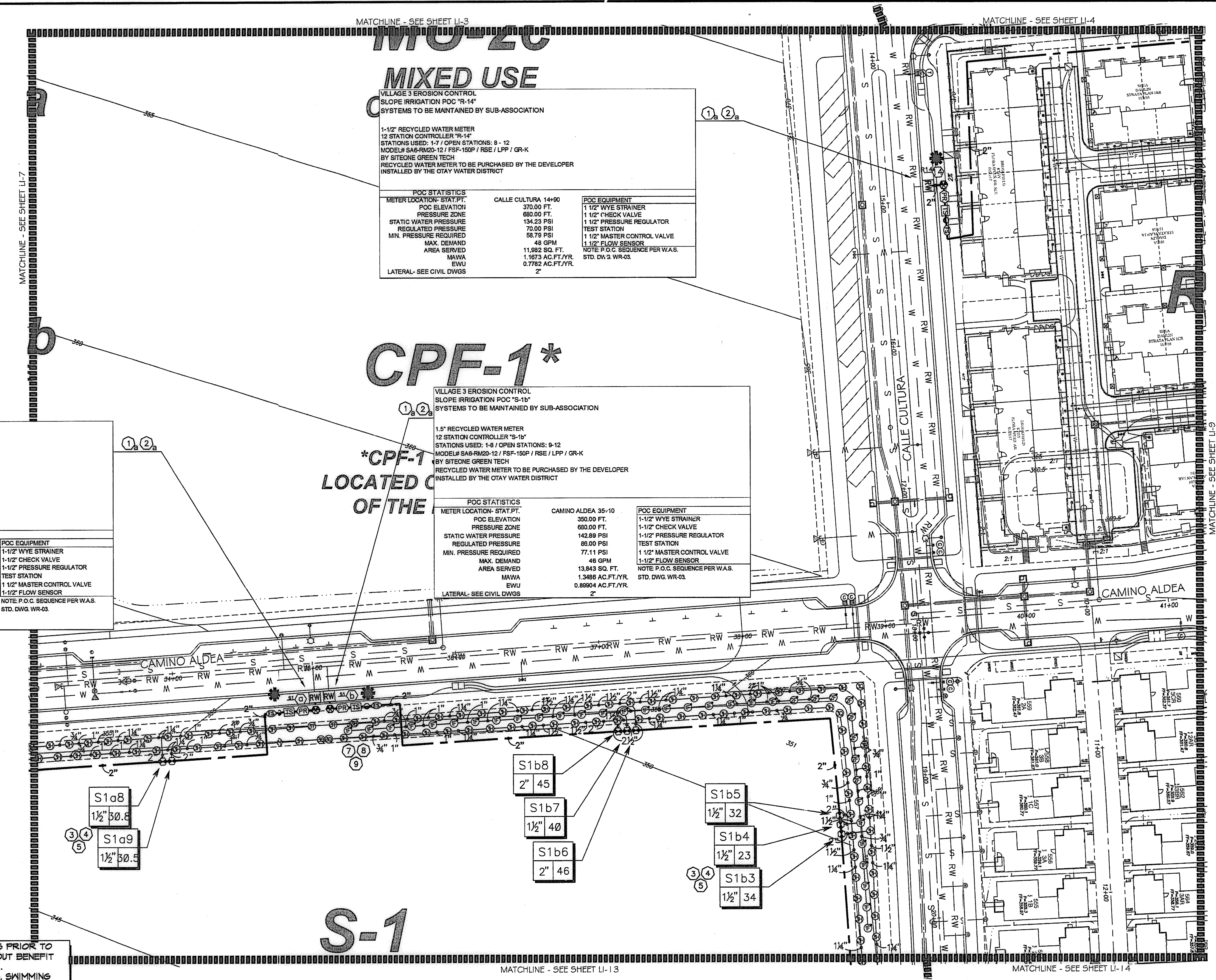
VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "S-1a" SYSTEMS TO BE MAINTAINED BY SUB-ASSOCIATION

1.5" RECYCLED WATER METER  
12 STATION CONTROLLER "S-1a"  
STATIONS USED: 1-9 / OPEN STATIONS: 10-12  
MODEL# SA6-RM20-12 / PSF-150P / RSE / LPP / GR-K  
BY SITEONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
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LATERAL- SEE CIVIL DWGS	2"		

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TEST STATION  
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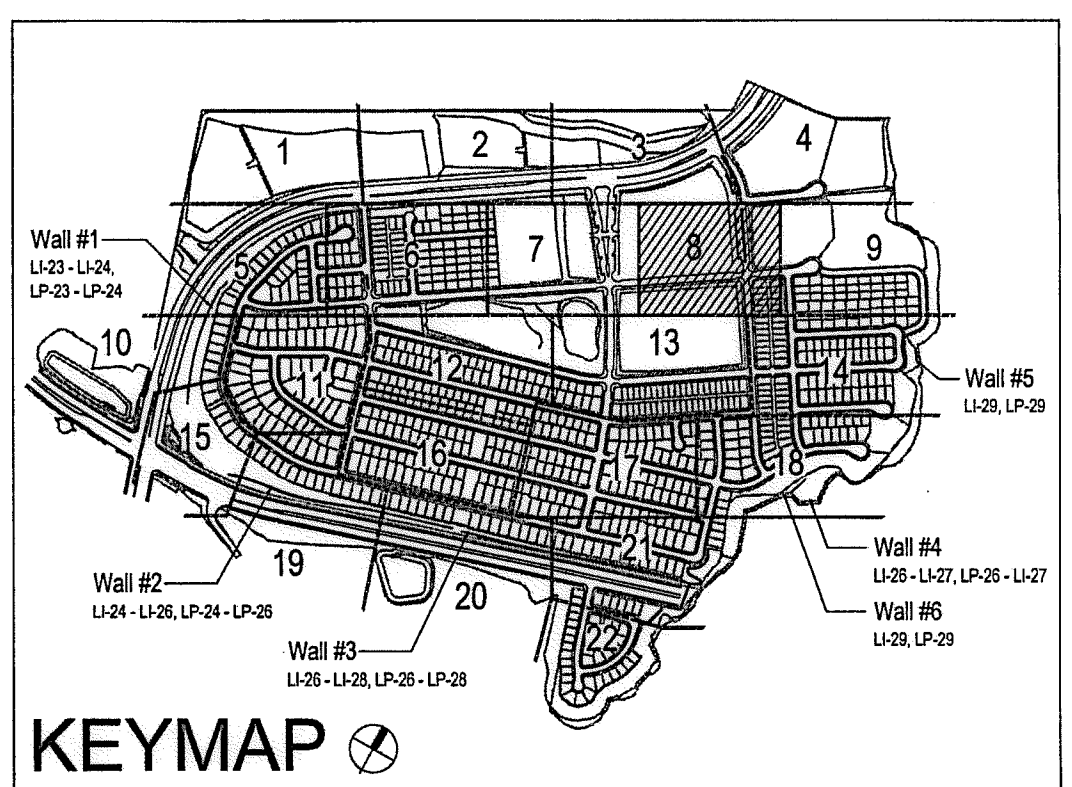
\*CPF-1 LOCATED AT THE



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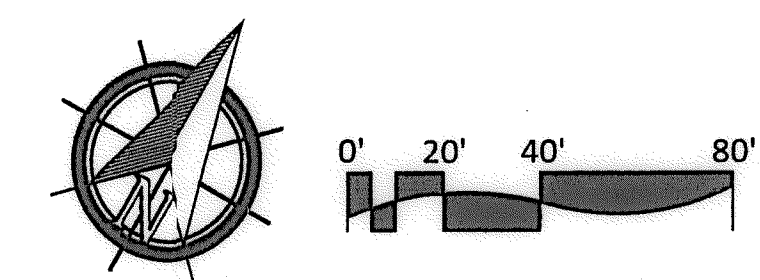
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UTILITY LEGEND (PER CIVIL PLANS)

DOMESTIC WATERLINE (PER CIVIL PLANS)	W	BLOWOFF VALVE	⊖
DOMESTIC SEWERLINE (PER CIVIL PLANS)	S	AIR RELEASE VALVE	⊖
RECYCLED WATERLINE (PER CIVIL PLANS)	RW	FIRE HYDRANT	⊖
STORM DRAINS (PER CIVIL PLANS)	≡≡≡	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	⊖
		CATHODIC TEST STATION (PER CIVIL PLANS)	⊖
		STREET LIGHT	⊖



OTAY WATER DISTRICT  
PROJECT NO. D0944-060189  
PZ 624, 711 RPZ 680  
REVIEWED BY: [Signature] DATE: 5/11/17  
SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"  
SIGNED: [Signature] DATE: [Blank]  
PRINT NAME: [Blank] R.L.A. # [Blank]  
DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. [Blank]



Tributary LA, Inc.  
2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office  
760.434.9303 fax

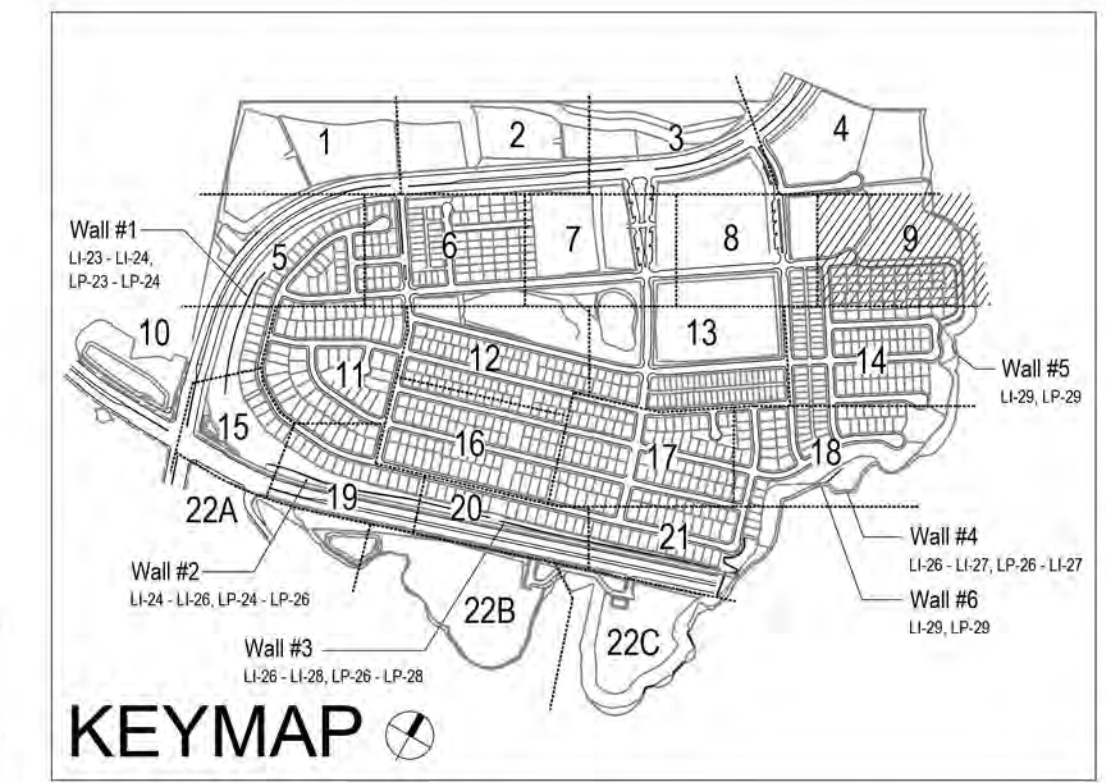
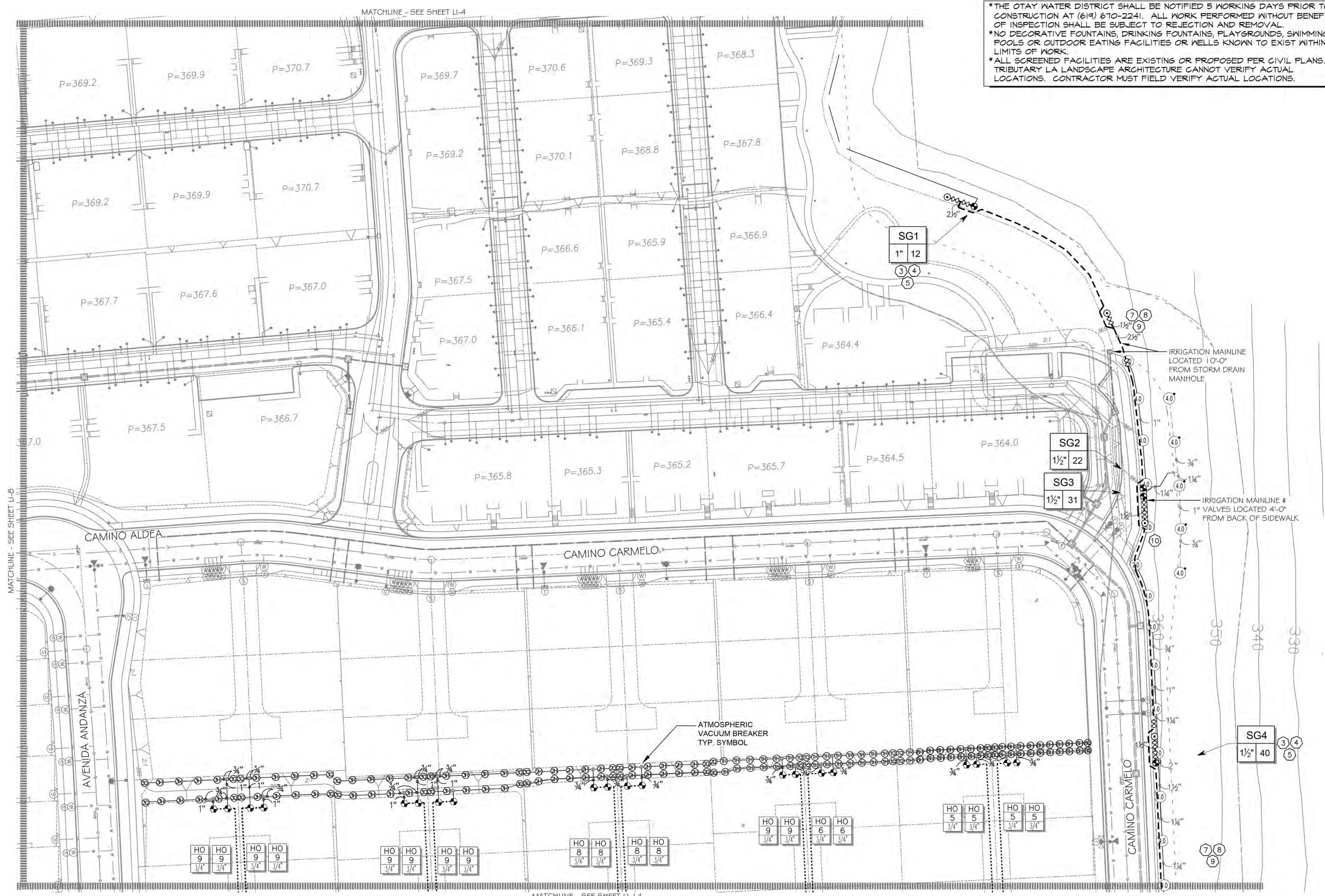
DATE: 10 APR '17  
SCALE: 1" = 40'  
JOB NO. 15024  
DRAWN BY: T.P./T.G.  
W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	Date:	Director of Development Services or designee.	CITY OF CHULA VISTA	Drawing No.	
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" FOR PIPE LOCATION: 1.5 MILES EAST OF INTX. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF TOWNSHIP 10 HIGH ROLLER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 10411) ELEV=929.31' (NAD83)	Horizontal 1" = 40' Vertical N/A		Plans Prepared Under Supervision Of				Mary Kadyuk	5-15-17	Kelly Broughton	LANDSCAPE IRRIGATION PLAN FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 16 Sheet 16 of 88

**CONSTRUCTION NOTES:**

1. IRRIGATION P.O.C. LOCATION SHOWN HAS BEEN COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THIS SERVICE, INSTALL BACKFLOW PREVENTION DEVICE, FLOW CONTROL AND MONITORING EQUIPMENT AND EXTEND SYSTEM AS SHOWN.
1. IRRIGATION P.O.C. FOR PRIVATE SYSTEMS - CONTRACTOR SHALL INSTALL A 1-1/4" TEE DOWNSTREAM OF A DEDICATED PRIVATE METER, INSTALL AN ISOLATION VALVE AND PRESSURE REGULATOR IN A RECTANGULAR VALVE BOX AND EXTEND SYSTEM AS SHOWN. SEE DETAIL B12 ON SHEET LI-32.
2. IRRIGATION CONTROLLER- 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL ROUTE POWER CABLE TO CONTROLLER IN PVC CONDUIT AND MAKE PERMANENT CONNECTION TO THE CONTROLLER. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
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4. REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)
5. SINGLE REMOTE CONTROL VALVES TO BE INSTALLED ON MANIFOLD IN 12" RECTANGULAR VALVE BOX. INSTALL NO MORE THAN 4 VALVE BOXES IN ONE AREA. SEPARATE VALVE BOX GROUPS BY 4' MIN.
6. DRIVEWAY AND SIDEWALK CROSSINGS- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE. 2" MIN. (TYP) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
7. ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
8. SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND. UNLESS NOTED OTHERWISE.
9. SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED, BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
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11. HUNTER PROS-00-FR830 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
12. LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRINGS AND/OR SPRING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
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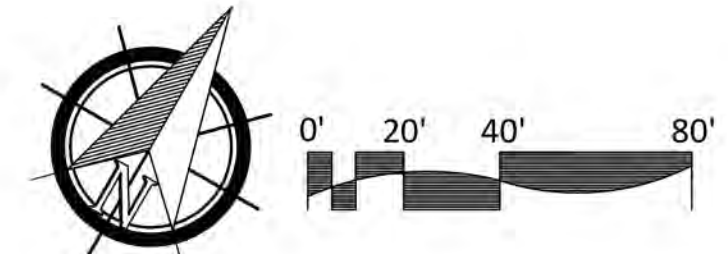


**UTILITY LEGEND (PER CIVIL PLANS)**

DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
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RECYCLED WATERLINE (PER CIVIL PLANS)	FIRE HYDRANT
STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

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FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30. FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36. FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39. FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.



**OTAY WATER DISTRICT**  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680  
 REVIEWED BY: *[Signature]* DATE: 5/10/19  
 NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE

**"AS-BUILT"**  
 SIGNED: *[Signature]* 4/24/23  
 PRINT NAME: THOMAS PICARD R.L.A. # 4001  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

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**REGISTERED LANDSCAPE ARCHITECT**  
 THOMAS A. PICARD  
 9/30/23  
 4724 231

**Tributary LA, Inc.**  
 Landscape Architecture and Planning  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE:	24 APR '23
SCALE:	1" = 40'
JOB NO.:	15024
DRAWN BY:	T.P./T.G.M.
W.O. NO.:	OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT OFF VALVES	7/3/16	[Signature]	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'							LANDSCAPE IRRIGATION PLAN FOR:	16050 - 17
Inspector			ADJUST IRRIGATION FOR PUBL. MOW AREAS.	5-12-19	[Signature]	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1358 PER R.O.S. 14841) ELEV=629.319' (NAD83)	Vertical N/A		Plans Prepared Under Supervision Of	Date	Approved:	Date:	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 17 of 88	
Date Completed									THOMAS A. PICARD	R.L.A. No.	Tiffany Allen	Director of Development Services or designee.	CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	REPLACEMENT SHEET	

UTILITY LEGEND (PER CIVIL PLANS)

- DOMESTIC WATERLINE (PER CIVIL PLANS)
- DOMESTIC SEWERLINE (PER CIVIL PLANS)
- RECYCLED WATERLINE (PER CIVIL PLANS)
- STORM DRAINS (PER CIVIL PLANS)
- BLOWOFF VALVE
- AIR RELEASE VALVE
- FIRE HYDRANT
- TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
- CATHODIC TEST STATION (PER CIVIL PLANS)
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- RAINBIRD SQ-F SERIES MICRO SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.

System BB Mainline & Control Wire Notes

- System BB is a Master Home Owner maintained irrigation system, servicing the water quality basins
  - System BB permanently services the irrigation systems servicing the water quality basins, located on the north side of Main Street
  - System BB also temporarily services the irrigation systems servicing the water quality basins, located on the south side of Main Street
- Prior to the initiation of the Main Street parkway landscape improvements:
  - System BB irrigation improvements located within the Main Street south parkway shall be cut, capped & removed. This includes:
    - Cutting & capping the mainline & control wires, located on the north side of Main Street a minimum of 24" from the end of the sleeve.
    - Cutting & removing all mainline & control wires, located on the south side of Main Street & within the future CFD area
    - Cap both ends of both sleeves that cross under Main Street.
  - Water service to the south water quality basin shall be concurrently connected to a temporary construction meter, until such a time the Water District & Department of Environmental Health approves the installation of the final water meter, that will permanently service the south water quality basin & any other Master Home Owner Association improvements
- All Master Home Owner Association piping or control wire, must be 100% encased in sleeves, where located in a CFD open-space area.

IRRIGATION MAINLINE AND CONTROLLER WIRE SLEEVES TO CONTINUE THRU THE CFD LANDSCAPE.

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "SB" SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD

1-1/2" RECYCLED WATER METER  
32 STATION CONTROLLER "SB"  
STATIONS USED: 3-25 / OPEN STATIONS: 1, 3 & 28-32  
MODEL# SAR-RM2-32 / FSF-150B / 5VR / PMR-CAC / RSE / LPP / GR-K  
BY SITE ONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION- STAT/PT:	HERITAGE RD. 14+00	1-1/2" WYE STRAINER	
POC ELEVATION:	173.00 FT	1-1/2" CHECK VALVE	
PRESSURE ZONE:	680.00 FT	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE:	219.53 PSI	TEST STATION	
REGULATED PRESSURE:	100.00 PSI	1-1/2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED:	83.41 PSI	1-1/2" FLOW SENSOR	
MAX. DEMAND:	48 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S. STD. DWG. WR-03.	
AREA SERVED:	111,388 SQ. FT.		
MAWA:	10,8513 AC.FT./YR.		
EWU:	7,2342 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS	2"		

VILLAGE 3 EROSION CONTROL DETENTION BASIN SLOPES IRRIGATION POC "BB" SYSTEMS TO BE MAINTAINED BY MASTER ASSOCIATION

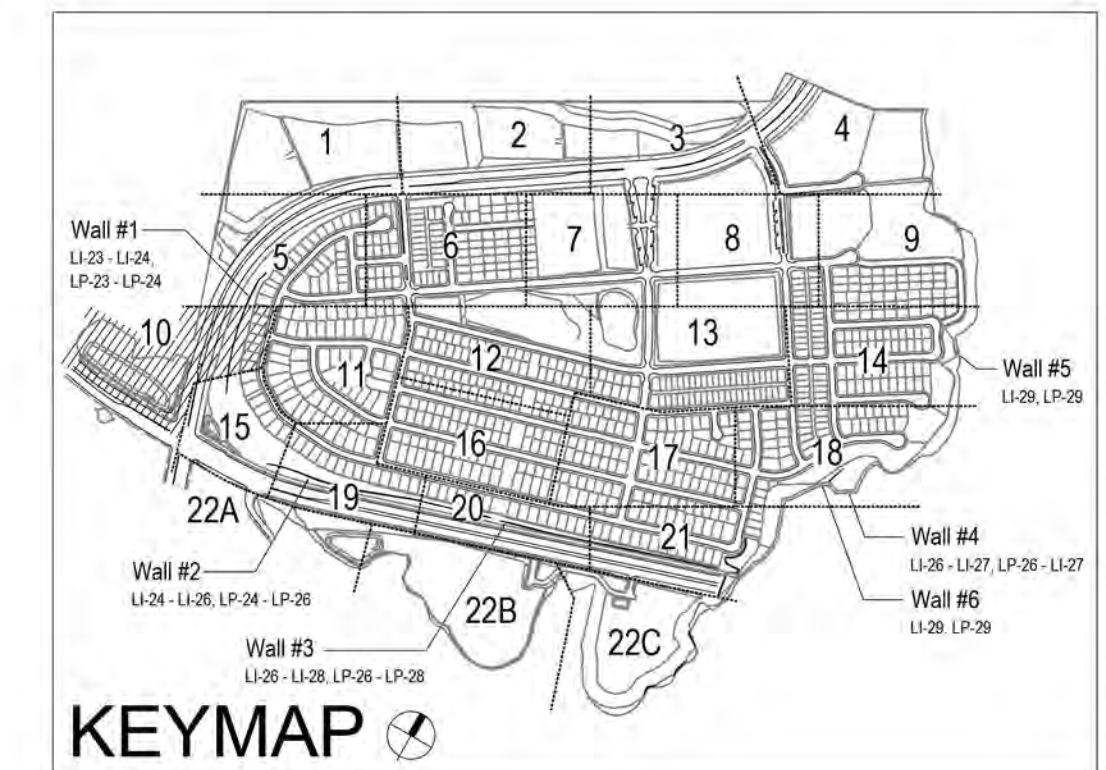
1-1/2" RECYCLED WATER METER  
32 STATION CONTROLLER "BB"  
STATIONS USED: 1-26 / OPEN STATIONS: 27-32  
MODEL# SAR-RM20-32 / FSF-150P / RSE / LPP / GR-K  
BY SITE ONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION- STAT/PT:	HERITAGE RD. 11+50	1-1/2" WYE STRAINER	
POC ELEVATION:	155.00 FT	1-1/2" CHECK VALVE	
PRESSURE ZONE:	680.00 FT	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE:	227.33 PSI	TEST STATION	
REGULATED PRESSURE:	85.00 PSI	1-1/2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED:	73.60 PSI	1-1/2" FLOW SENSOR	
MAX. DEMAND:	53 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S. STD. DWG. WR-03.	
AREA SERVED:	104,128 SQ. FT.		
MAWA:	10,1451 AC.FT./YR.		
EWU:	8,9772 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS	2"		

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"AS-BUILT"

SIGNED: *Thomas Picard* DATE: 4/24/23

PRINT NAME: THOMAS PICARD R.L.A. # 4001

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

IT'S THE LAW! DIAL BEFORE YOU DIG!

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1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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REGISTERED LANDSCAPE ARCHITECT

THOMAS A. PICARD

9/30/23

2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office 760.434.9303 fax

Tributary LA, Inc.

DATE: 24 APR '23

SCALE: 1" = 40'

JOB NO. 15024

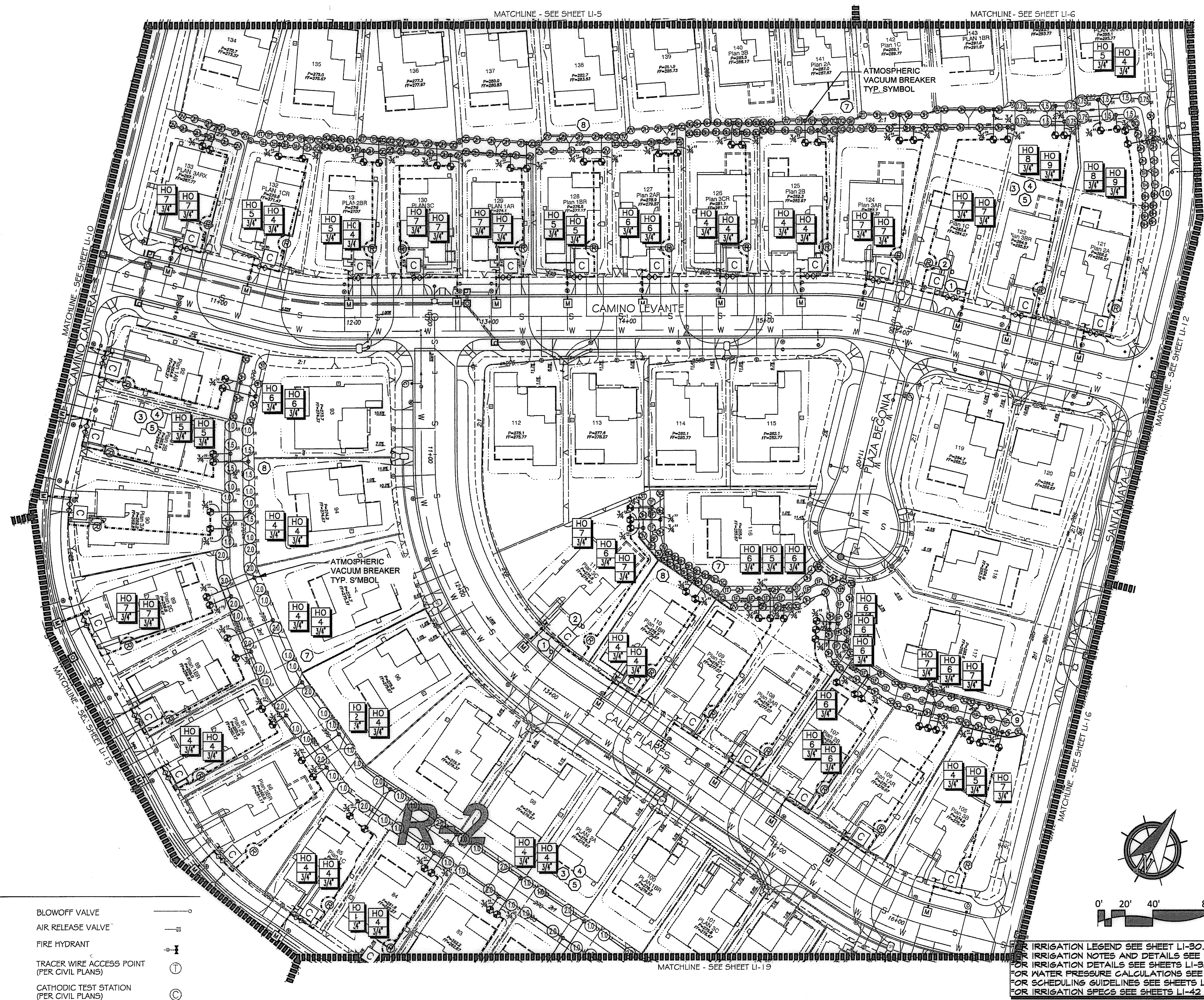
DRAWN BY: T.P. / T.G.M.

W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01-16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES	7/3/16	0404R	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'							LANDSCAPE IRRIGATION PLAN FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050-18
Inspector			ADDED METHANE PAD, TREES, NOTES & IRRIGATION	5/21/19	0404R	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT BY HIGH BOULDER & 1700' SOUTHWESTLY OF WATER STORAGE FACILITY. (767 1359 PER R.O.S. 14841) ELEV=829.319' (NWD 88)	Vertical N/A		Plans Prepared Under Supervision Of						Sheet 18 of 88
Date Completed			ADD IRRIG. FOR REMOVAL OF PAD	10/24/19	0404R				THOMAS A. PICARD					REPLACEMENT SHEET	U-10

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- 7 ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
- 8 SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
- 9 SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
- 10 RADIUS AND NOZZLE REDUCTION- SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FULL HEADS WITH REDUCED RADIUS OF THROAT. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF 4IN/HR.
- 11 HUNTER PROS-00-FRS50 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
- 12 LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRING AND/OR SPRING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.



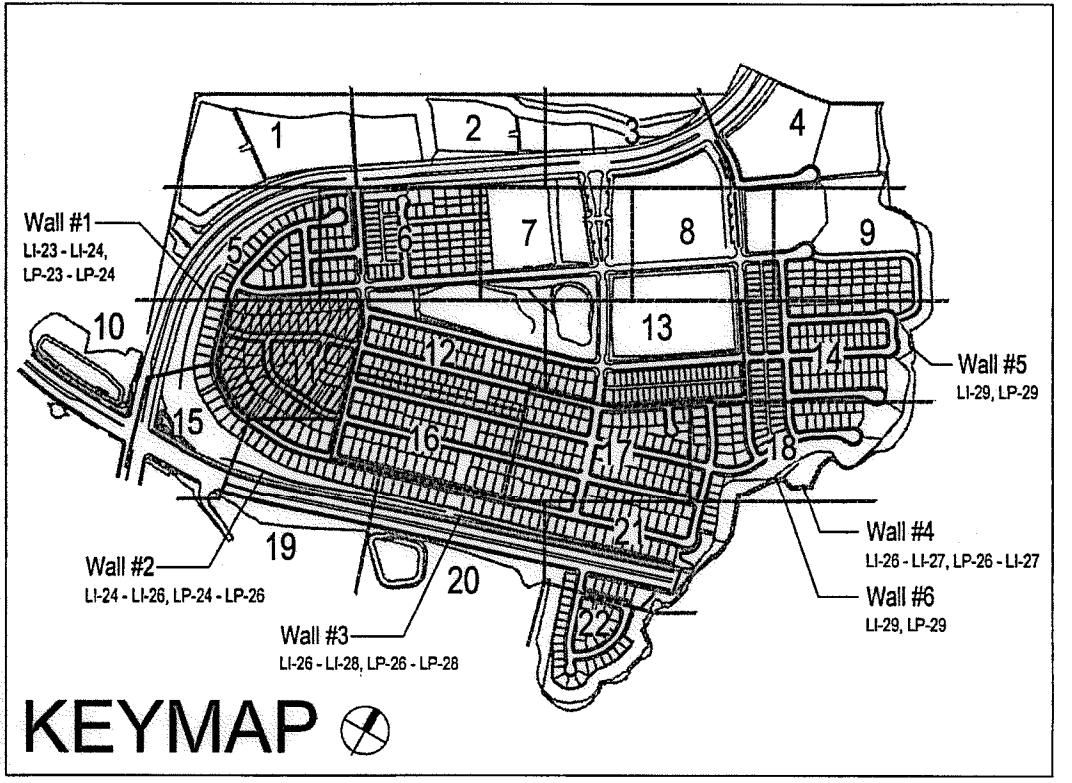
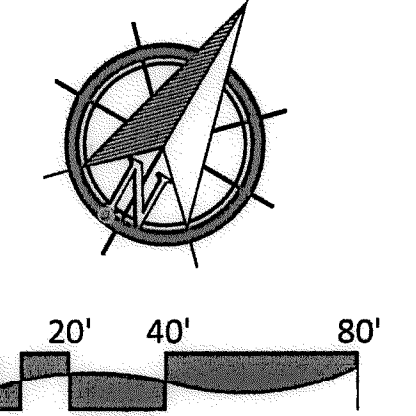
UTILITY LEGEND (PER CIVIL PLANS)

DOMESTIC WATERLINE (PER CIVIL PLANS)	W	BLOWOFF VALVE	○
DOMESTIC SEWERLINE (PER CIVIL PLANS)	S	AIR RELEASE VALVE	⊖
RECYCLED WATERLINE (PER CIVIL PLANS)	RW	FIRE HYDRANT	⊕
STORM DRAINS (PER CIVIL PLANS)	≡≡≡	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	⊙
		CATHODIC TEST STATION (PER CIVIL PLANS)	⊙
		STREET LIGHT	⊙

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
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FOR IRRIGATION LEGEND SEE SHEET LI-30.  
 FOR IRRIGATION NOTES AND DETAILS SEE SHEETS LI-31.  
 FOR IRRIGATION DETAILS SEE SHEETS LI-32 THRU LI-37.  
 FOR WATER PRESSURE CALCULATIONS SEE SHEETS LI-38 AND LI-39.  
 FOR SCHEDULING GUIDELINES SEE SHEETS LI-40 THRU LI-41.  
 FOR IRRIGATION SPECS SEE SHEETS LI-42 THRU LI-44.



CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED 'SD CIV ENGR.' IN 3/4" R/W PIPE. LOCATION: 5 MILES EAST OF NIXY OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF 'ROUNDTOP' 10' HIGH HOLLOWER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (P&H 1359 PER R.O.S. 4841) ELEV=229.219' (NAD 88)	Horizontal 1" = 40' Vertical N/A				

OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 624, 711 RPZ 680  
 REVIEWED BY: [Signature] DATE: 5/11/17  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"  
 SIGNED: [Signature] DATE: 5-15-17  
 PRINT NAME: Kelly Broughton R.L.A. # [Number]  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP.



Tributary LA, Inc.  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

DATE: 10 APR '17  
 SCALE: 1" = 40'  
 JOB NO.: 15024  
 DRAWN BY: T.P./T.G.  
 W.O. NO.: OR-3001G





- CONSTRUCTION NOTES:**
- IRRIGATION P.O.C. LOCATION SHOWN HAS BEEN COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THIS SERVICE, INSTALL BACKFLOW PREVENTION DEVICE, FLOW CONTROL AND MONITORING EQUIPMENT AND EXTEND SYSTEM AS SHOWN.
  - IRRIGATION P.O.C. FOR PRIVATE SYSTEMS - CONTRACTOR SHALL INSTALL A 1-1/4" TEE DOWNSTREAM OF A DEDICATED PRIVATE METER, INSTALL AN ISOLATION VALVE AND PRESSURE REGULATOR IN A RECTANGULAR VALVE BOX AND EXTEND SYSTEM AS SHOWN. SEE DETAIL B12 ON SHEET LI-32.
  - IRRIGATION CONTROLLER - 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL ROUTE POWER CABLE TO CONTROLLER IN PVC CONDUIT AND MAKE PERMANENT CONNECTION TO THE CONTROLLER. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
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  - ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ON HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
  - SPRINKLERS LOCATED WITHIN 5 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
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**UTILITY LEGEND (PER CIVIL PLANS)**

DOMESTIC WATERLINE (PER CIVIL PLANS)	— W —	BLOWOFF VALVE	— O —
DOMESTIC SEWERLINE (PER CIVIL PLANS)	— S —	AIR RELEASE VALVE	— A —
RECYCLED WATERLINE (PER CIVIL PLANS)	— RW —	FIRE HYDRANT	— H —
STORM DRAINS (PER CIVIL PLANS)	— SD —	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	— T —
		CATHODIC TEST STATION (PER CIVIL PLANS)	— C —
		STREET LIGHT	— L —

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OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189

RPZ 624, 711      RPZ 680

REVIEWED BY: *[Signature]* DATE: 5/14/17  
 SIGNATURE EXPIRES AFTER 1 YEAR

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 DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

**"AS-BUILT"**

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP.

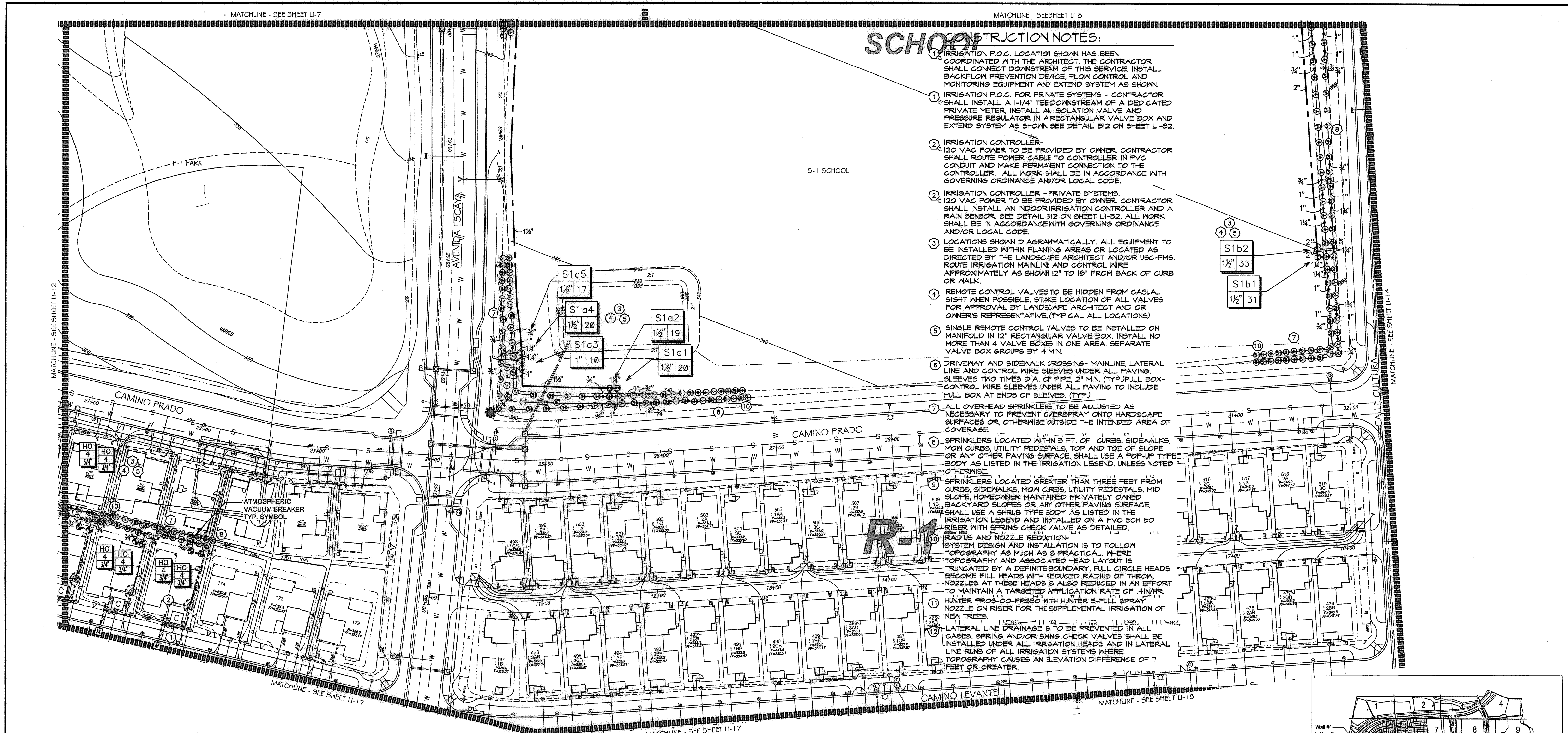


**Tributary LA, Inc.**  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
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DATE: 10 APR '17  
 SCALE: 1" = 40'  
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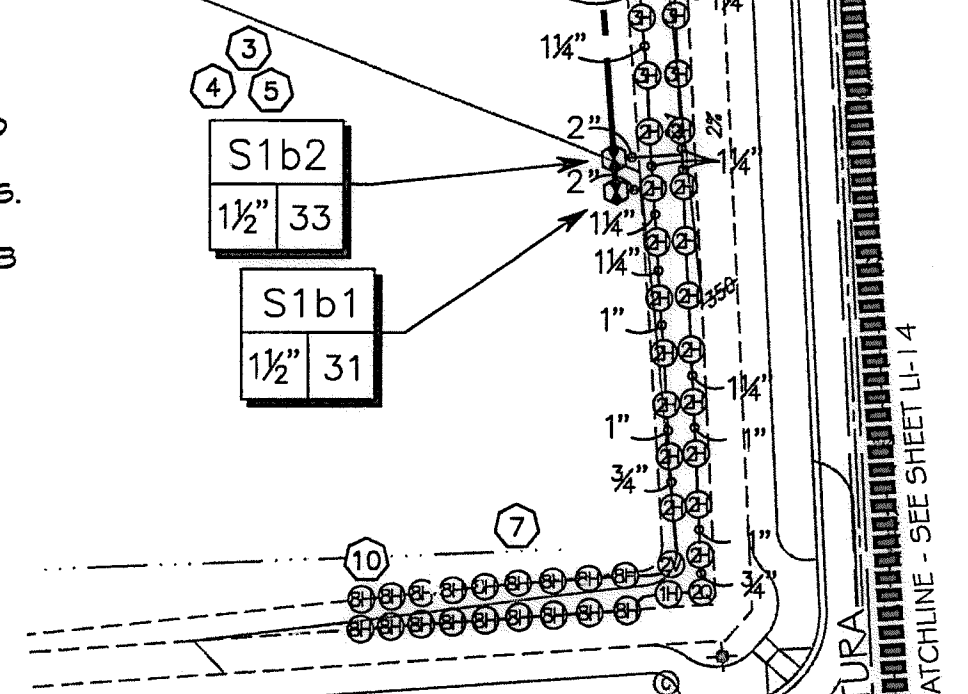
CONTRACTOR	16026-01 - 16026-93	BY	HUNSAKER & ASSOC.	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: <i>[Signature]</i> Date: 5-15-17	CITY OF CHULA VISTA	Drawing No.	
Inspector							BRASS IRON MARKED "50" CITY ENGR. IN 3/4" IRON PIPE. 1.5 MILES EAST OF MIX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. UTM 1359 PER 603. 14841 ELEV=622.319' (NAVD83)	Horizontal 1" = 40' Vertical N/A	Field	Plans Prepared Under Supervision Of	THOMAS A. PICARD			Kelly Broughton Director of Development Services or designee.	LANDSCAPE IRRIGATION PLAN FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 20
Date Completed															Sheet 20 of 88	

Print Date: 10 APR '17 OWD WO# D0944-060189 Otay Ranch, Village 3 - Slope & Erosion Control



### SCHOOL CONSTRUCTION NOTES:

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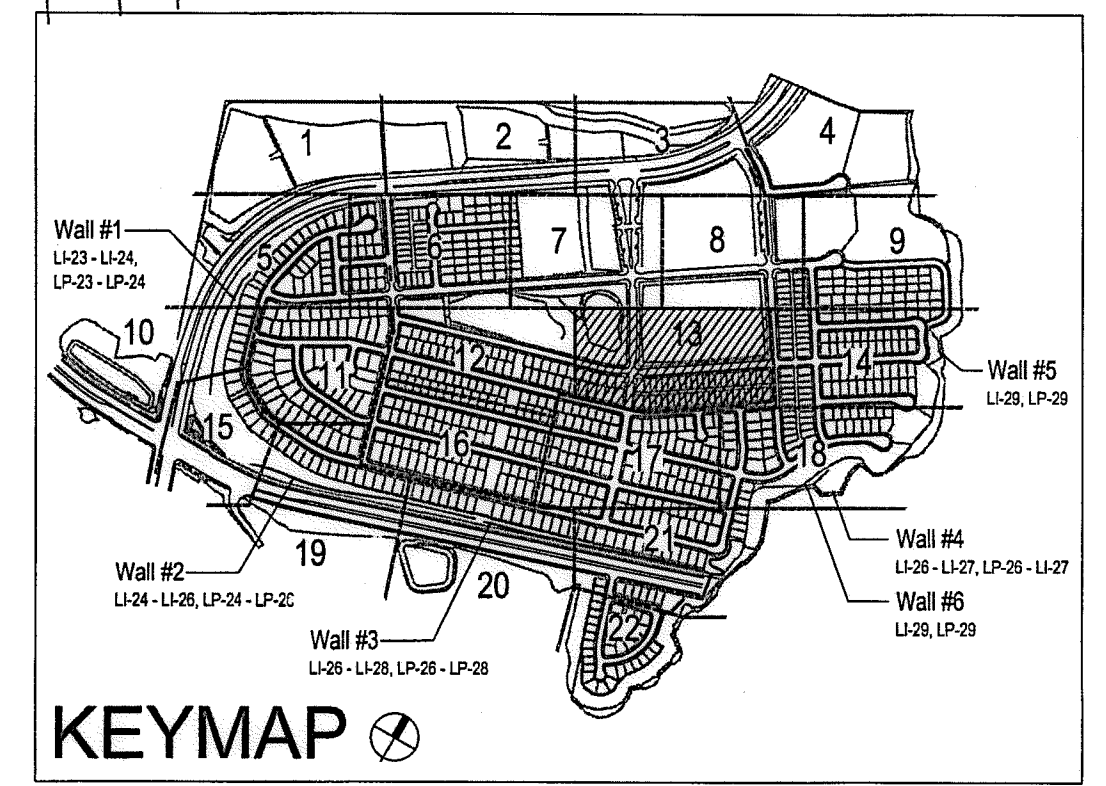
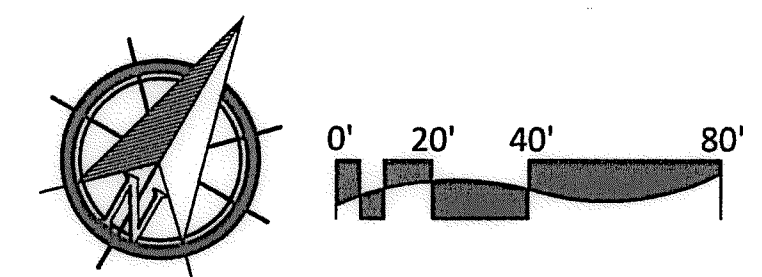


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UTILITY LEGEND (PER CIVIL PLANS)			
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RECYCLED WATERLINE (PER CIVIL PLANS)	RW	FIRE HYDRANT	—H
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		STREET LIGHT	○

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 FOR IRRIGATION DETAILS SEE SHEETS LI-32 THRU LI-37.  
 FOR WATER PRESSURE CALCULATIONS SEE SHEETS LI-38 AND LI-39.  
 FOR SCHEDULING GUIDELINES SEE SHEETS LI-40 THRU LI-41.  
 FOR IRRIGATION SPECS SEE SHEETS LI-42 THRU LI-44.



OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 PZ 624, 711 RPZ 680  
 REVIEWED BY: *[Signature]* DATE: 5/10/17  
 SIGNATURE EXPIRES AFTER 1 YEAR

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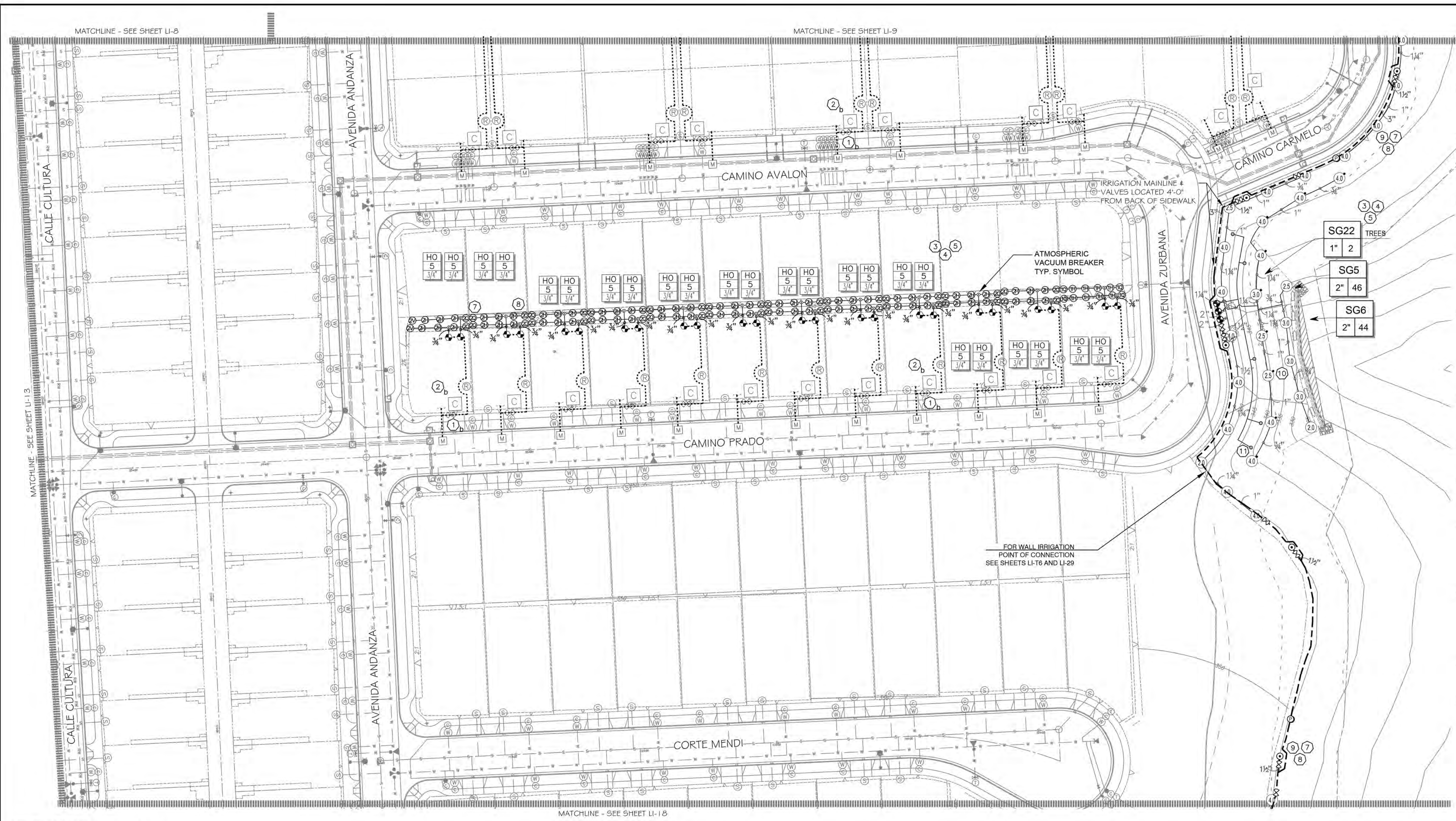
"AS-BUILT"  
 SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

REGISTERED LANDSCAPE ARCHITECT  
 THOMAS A. PICARD  
 9/5/17  
 47277  
 CALIFORNIA

Tributary LA, Inc.  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax  
 DATE: 10 APR '17  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	Date:	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE LOCATION: 15 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF POINTMENT TO HIGH ROLLERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT) 1359 PER R.O.S. 1641 ELEV=429.319' (UNADJ)	Horizontal 1" = 40' Vertical N/A		Plans Prepared Under Supervision Of Date THOMAS A. PICARD			<i>[Signature]</i> Kelly Broughton Director of Development Services or designee.	5-15-17	16050 - 21

CITY OF CHULA VISTA  
 LANDSCAPE IRRIGATION PLAN FOR:  
 OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL  
 CHULA VISTA TENTATIVE TRACT MAP NO. 13-02  
 OWD WO# D0944-060189 OWD PERMIT# PLR-16-014 LI-13  
 Sheet 21 of 28



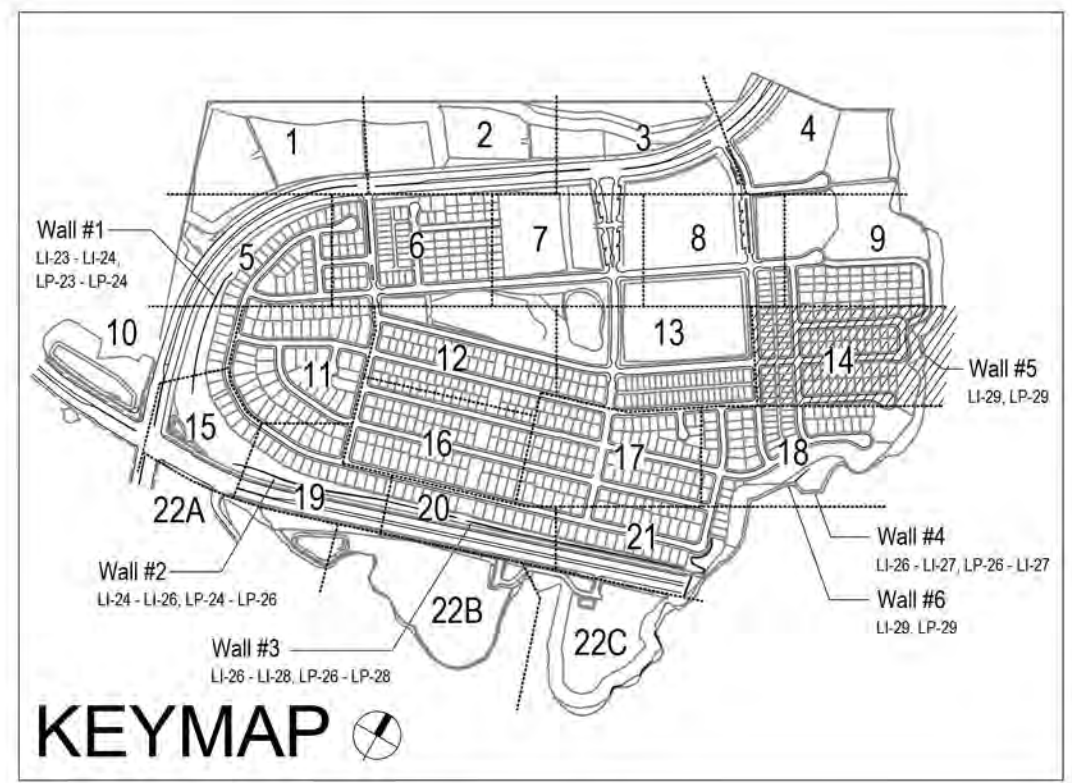
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  - DRIVEWAY AND SIDEWALK CROSSINGS- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
  - ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
  - SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
  - SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
  - RADIUS AND NOZZLE REDUCTION-SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FULL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF 4IN/HR.
  - HUNTER PROS-00-FRS30 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
  - LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRINGS AND/OR SINKS CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.

#### UTILITY LEGEND (PER CIVIL PLANS)

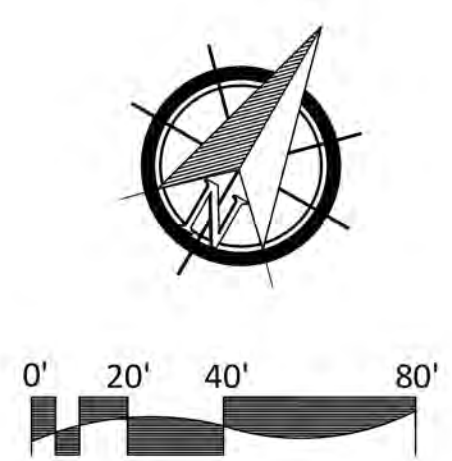
DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
DOMESTIC SEWERLINE (PER CIVIL PLANS)	AIR RELEASE VALVE
RECYCLED WATERLINE (PER CIVIL PLANS)	FIRE HYDRANT
STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

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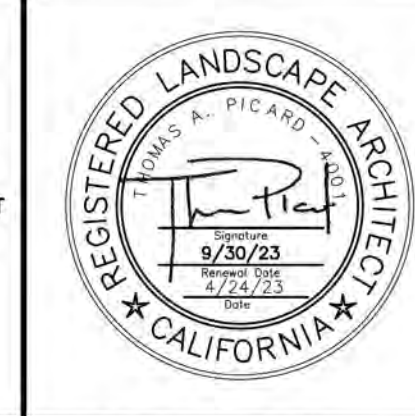
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OTAY WATER DISTRICT  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680

"AS-BUILT"  
 SIGNED: *THP* DATE: 4/24/23  
 PRINT NAME: THOMAS PICARD R.L.A. # 4001  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

IT'S THE LAW! DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

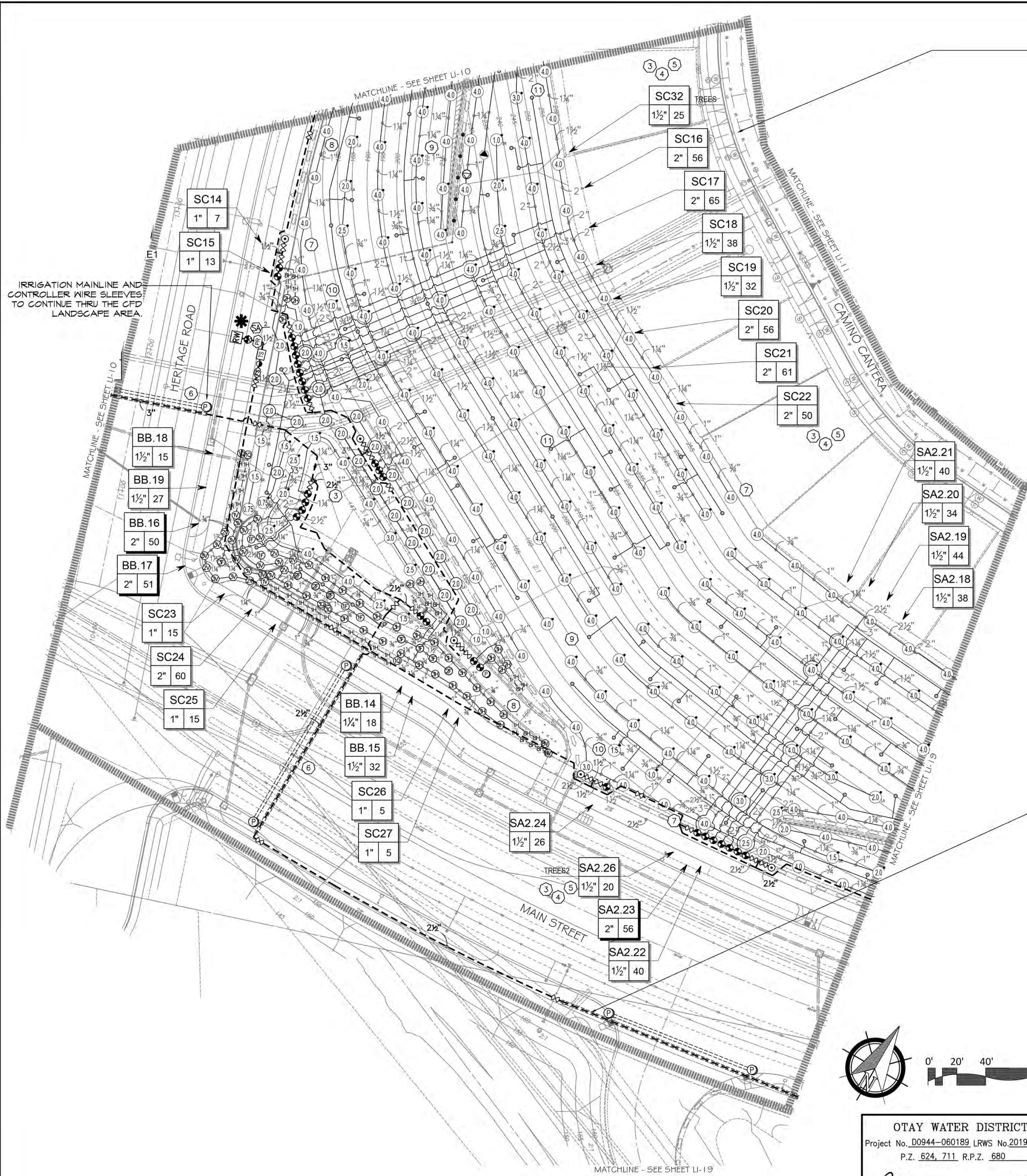


Tributary LA, Inc.  
 Landscape Architecture and Planning  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 24 APR '23  
 SCALE: 1" = 40'  
 JOB NO.: 15024  
 DRAWN BY: T.P./T.G.M.  
 W.O. NO.: OR-3001G

CONTRACTOR	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT OFF VALVES.	7/3/16	<i>THP</i>	DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE. LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLARD & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 14841) ELEV=829.319' (NWD 88)	Horizontal 1" = 40' Vertical N/A	Field	Plans Prepared Under Supervision Of	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	Approved: <i>THP</i> Date: 4/24/23 Director of Development Services or designee.	REPLACEMENT SHEET	16050 - 22

LRWS# 2019-1134  
 Print Date: 24 APR '23  
 OWD WO# D0944-060189  
 Otay Ranch, Village 3 - Slope & Erosion Control  
 U-14



**VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "SA2" SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD**

1-1/2" RECYCLED WATER METER  
 32 STATION CONTROLLER "SA2"  
 STATIONS USED: 125 / OPEN STATIONS: 26-32  
 MODEL# SA6-RM2-32 / FSF-150B / 5YR / PMR-CAC / RSE / LPP / GRK  
 BY SIREONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE CITY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT
METER LOCATION: STAT PT	HERITAGE RD. 12+20	1-1/2" WYE STRAINER
POC ELEVATION	158.00 FT.	1-1/2" CHECK VALVE
PRESSURE ZONE	680.00 FT.	1-1/2" PRESSURE REGULATOR
STATIC WATER PRESSURE	226.03 PSI	TEST STATION
REGULATED PRESSURE	110.00 PSI	1-1/2" MASTER CONTROL VALVE
MIN. PRESSURE REQUIRED	103.38 PSI	1-1/2" FLOW SENSOR
MAX. DEMAND	56 GPM	NOTE: POC SEQUENCE PER WAS.
AREA SERVED	159,644 SQ. FT.	STD. DWG. WR-03
MAWA	15,523 AC.FT./YR.	
EWU	10,382 AC.FT./YR.	
LATERAL: SEE CIVL DWGS	2'	

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**System BB Mainline & Control Wire Notes**

13) System BB is a Master Home Owner maintained irrigation system, servicing the water quality basins  
 - System BB permanently services the irrigation systems servicing the water quality basins, located on the north side of Main Street  
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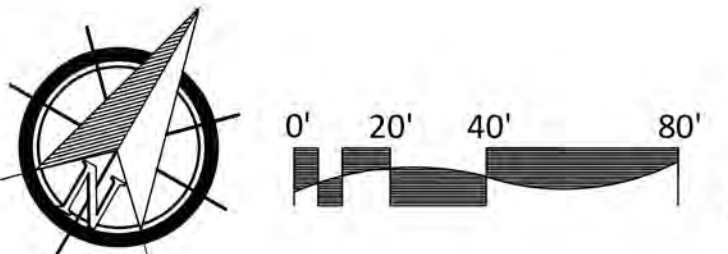
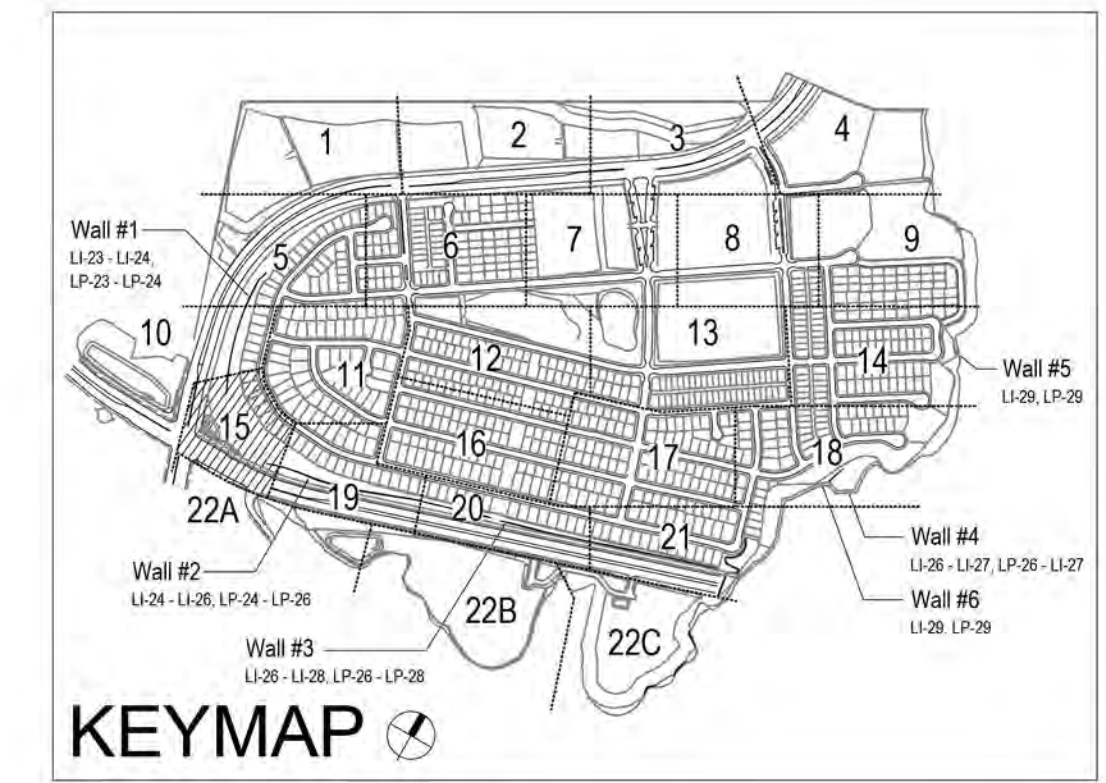
14) Prior to the initiation of the Main Street parkway landscape improvements:  
 - System BB irrigation improvements located within the Main Street south parkway shall be cut, capped & removed. This includes:  
 □ Cutting & capping the mainline & control wires, located on the north side of Main Street a minimum of 24" from the end of the sleeve.  
 □ Cutting & removing all mainline & control wires, located on the south side of Main Street & within the future CFD area  
 □ Cap both ends of both sleeves that cross under Main Street.  
 - Water service to the south water quality basin shall be concurrently connected to a temporary construction meter, until such a time the Water District & Department of Environmental Health approves the installation of the final water meter, that will permanently service the south water quality basin & any other Master Home Owner Association improvements

15) All Master Home Owner Association piping or control wire, must be 100% encased in sleeves, where located in a CFD open-space area.

**UTILITY LEGEND (PER CIVIL PLANS)**

DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
DOMESTIC SEWERLINE (PER CIVIL PLANS)	AIR RELEASE VALVE
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STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

- CONSTRUCTION NOTES:**
- IRRIGATION P.O.C. LOCATION SHOWN HAS BEEN COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THIS SERVICE, INSTALL BACKFLOW PREVENTION DEVICE, FLOW CONTROL AND MONITORING EQUIPMENT AND EXTEND SYSTEM AS SHOWN.
  - IRRIGATION P.O.C. FOR PRIVATE SYSTEMS - CONTRACTOR SHALL INSTALL A 1-1/4" TEE DOWNSTREAM OF A DEDICATED PRIVATE METER, INSTALL AN ISOLATION VALVE AND PRESSURE REGULATOR IN A RECTANGULAR VALVE BOX AND EXTEND SYSTEM AS SHOWN. SEE DETAIL B12 ON SHEET LI-32.
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**OTAY WATER DISTRICT**  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680

REVIEWED BY: *[Signature]* DATE: 10-22-19  
 NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE

**"AS-BUILT"**

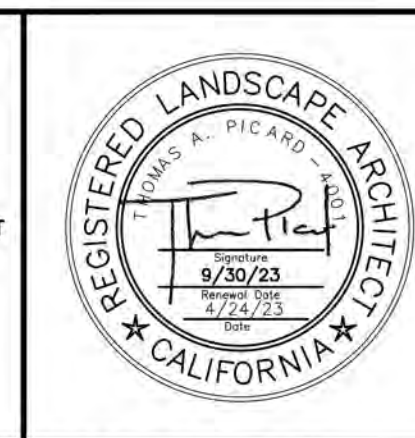
SIGNED: *[Signature]* DATE: 4/24/23

PRINT NAME: THOMAS PICARD R.L.A. # 4001  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

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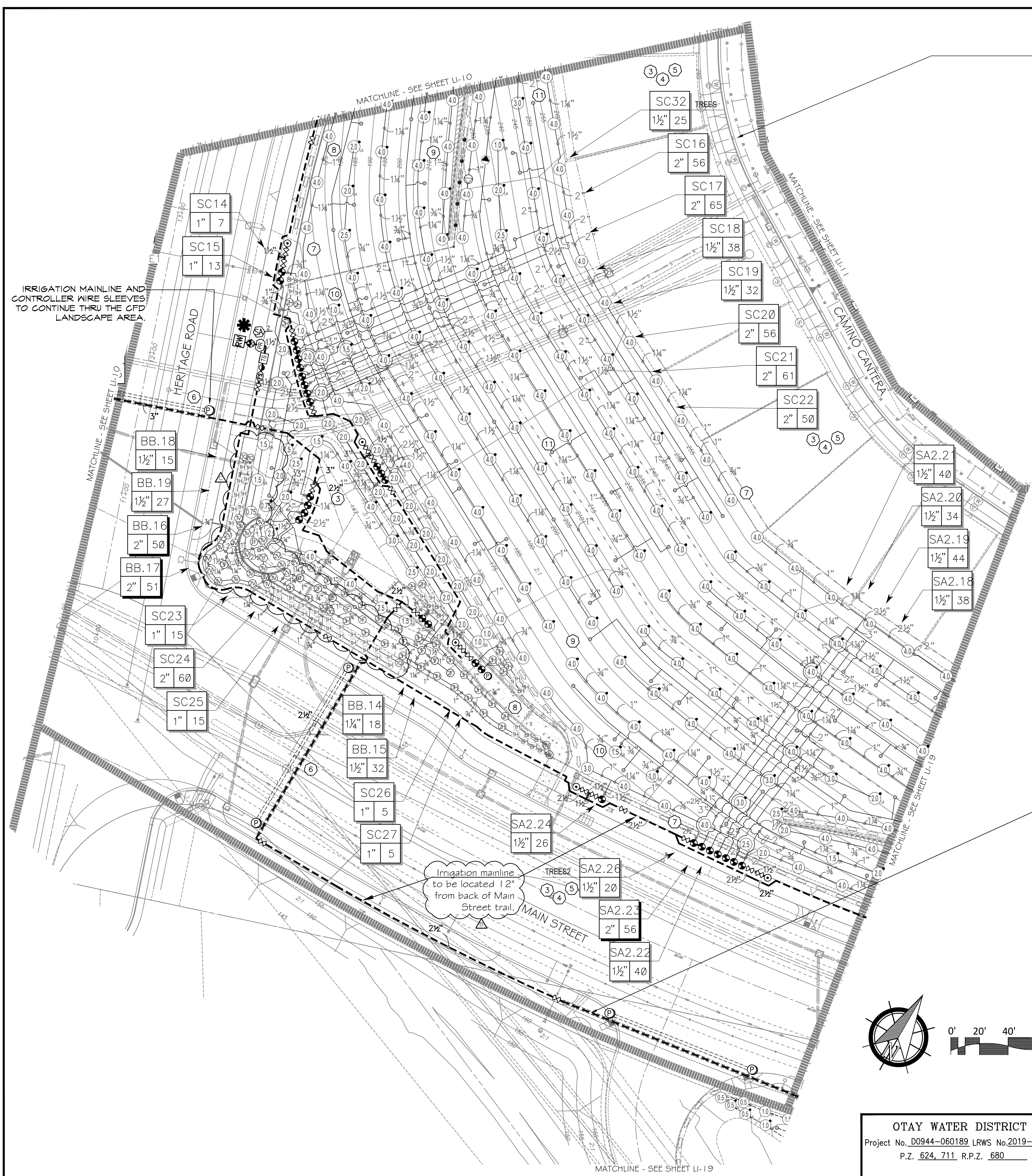
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**Tributary LA, Inc.**  
 Landscape Architecture and Planning  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 24 APR '23  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P. / T.G.M.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	<b>CITY OF CHULA VISTA</b>	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES ADDED NOTE FOR MAINLINE LOCATION ALONG MAIN STREET SURFACE DRAIN PROTECTION FOR OVERHEAD SPRAY AT RECONFIGURE MOUNTAIN WALLS	7/3/16 5/21/19 10/23/19	<i>[Signatures]</i>	DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONTORY HIGH ROAD & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 14841) ELEV=629.319' (NWD 88)	Horizontal 1" = 40' Vertical N/A							LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 23
Inspector									Plans Prepared Under Supervision Of	Date	Approved:	Date:			Sheet 23 of 88
Date Completed									THOMAS A. PICARD	4/24/23	Tiffany Allen			REPLACEMENT SHEET	OWD WO# D0944-060189 OWD PERMIT# PLR-16-014 LI-15



VILLAGE 3 EROSION CONTROL  
SLOPE IRRIGATION P.O.C. "SA1"  
SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD

1-1/2" RECYCLED WATER METER  
32 STATION CONTROLLER "SA2"  
STATIONS USED: 1-25 / OPEN STATIONS: 28-32  
MODEL# SA6-RM2-32 / FSF-150B / SYR / PMR-CAC / RSE / LPP / GR-K  
BY SITEONE GREEN TECH  
RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION/STATION#	HERITAGE RD. 12-20	1-1/2" WYE STRAINER	
POC ELEVATION	158.00 FT.	1-1/2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	226.03 PSI	TEST STATION	
REGULATED PRESSURE	110.00 PSI	1-1/2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	103.38 PSI	1-1/2" FLOW SENSOR	
MAX. DEMAND	56 GPM		
AREA SERVED	159,644 SQ. FT.	NOTE: P.O.C. SEQUENCE PER WAS.	
MAWA	15,523 AC/FT/YR	STD. DWG. WR-03	
EWU	10,982 AC/FT/YR		

LATERAL - SEE CIVIL DWGS

PREVIOUS LOCATION OF P.O.C. "SA1" CALL OUT FOR NEW METER AND IRRIGATION CONTROLLER CALL OUT SEE SHEET LI-20

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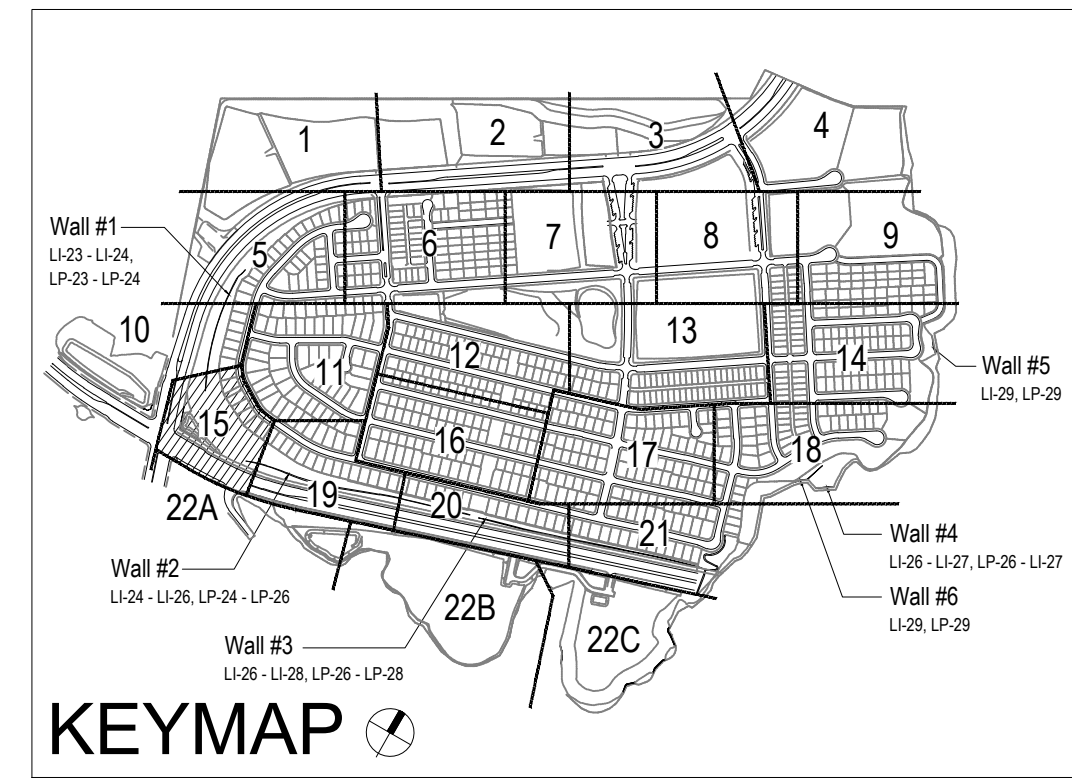
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  - ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
  - SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOM CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
  - SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOM CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
  - RADIUS AND NOZZLE REDUCTION- SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY. FULL CIRCLE HEADS BECOME FILL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF 4IN/HR.
  - HUNTER PROS-00-PR330 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
  - LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRING AND/OR SWING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.



OTAY WATER DISTRICT  
Project No. D0944-060189 LRWS No. 2019-00134  
P.Z. 624, 711 R.P.Z. 680

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE

"AS-BUILT"

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

IT'S THE LAW!  
DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600

UNDERGROUND SERVICE ALERT  
OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

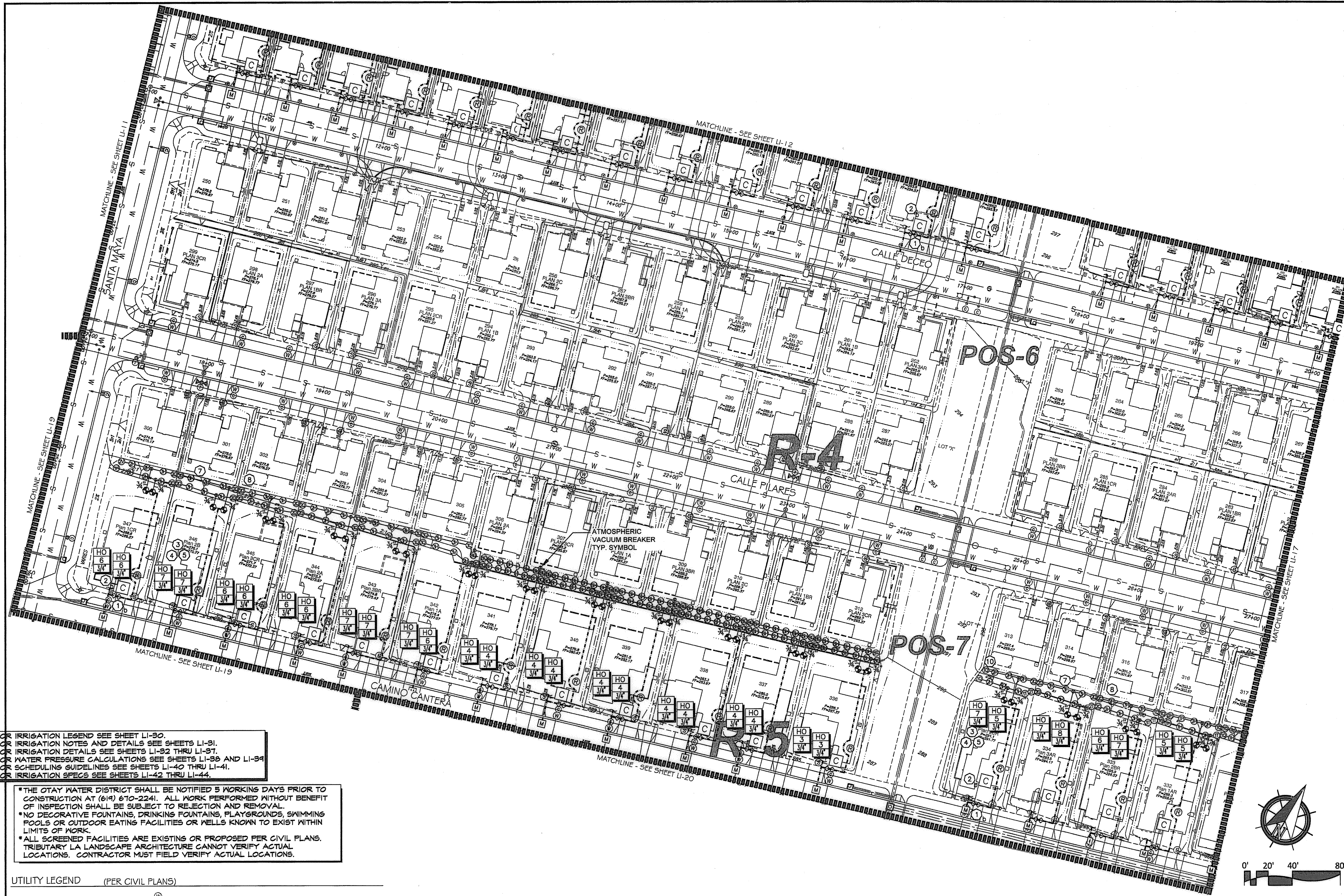


**Tributary LA, Inc.**  
Landscape Architecture and Planning

2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office 760.434.9303 fax

DATE: 23 MAY '22  
SCALE: 1" = 40'  
JOB NO. 15024  
DRAWN BY: T.P. / T.G.M.  
W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES	7/3/16	[Signature]	BRASS DISK MARKED "50 CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'		Plans Prepared Under	Supervision Of	Approved:	Date:	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	16050 - 23	
Inspector _____			ADDED NOTE FOR MAINLINE LOCATION ALONG MAIN STREET	5/11/16	[Signature]	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH ROCKERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 14841) ELEV=629.319' (NAD83)	Vertical N/A		THOMAS A. PICARD	Tiffany Allen	Director of Development Services or designee.		OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 23 of 68	
Date Completed _____			RECONFIGURE MONUMENT WALLS	10/25/17	[Signature]								REPLACEMENT SHEET	OWD WO# D0944-060189 OWD PERMIT# PLR-16-014 LI-15	



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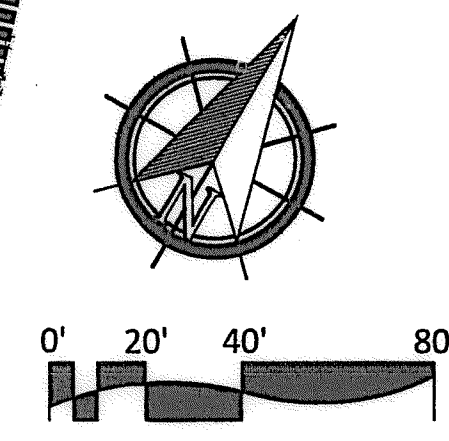
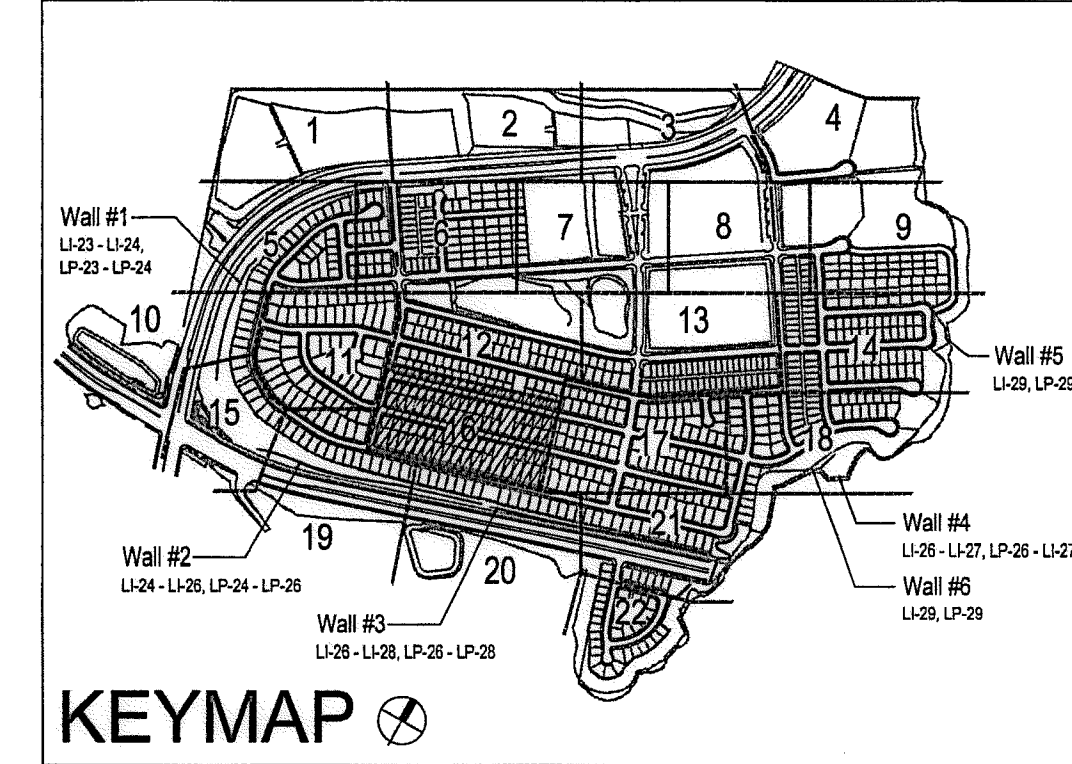
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 FOR SCHEDULING GUIDELINES SEE SHEETS LI-40 THRU LI-41.  
 FOR IRRIGATION SPECS SEE SHEETS LI-42 THRU LI-44.

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**UTILITY LEGEND (PER CIVIL PLANS)**

DOMESTIC WATERLINE (PER CIVIL PLANS)	W	BLOWOFF VALVE	○
DOMESTIC SEWERLINE (PER CIVIL PLANS)	S	AIR RELEASE VALVE	□
RECYCLED WATERLINE (PER CIVIL PLANS)	RW	FIRE HYDRANT	⊕
STORM DRAINS (PER CIVIL PLANS)	SD	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	⊕
		CATHODIC TEST STATION (PER CIVIL PLANS)	⊕
		STREET LIGHT	○

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<b>OTAY WATER DISTRICT</b> PROJECT NO. <u>D0944-060189</u> 67 624, 711      RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: <u>5/10/17</u> SIGNATURE EXPIRES AFTER 1 YEAR		<b>IT'S THE LAW!</b> CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600	<b>"AS-BUILT"</b> SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____		<b>Tributary LA, Inc.</b> 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 10 APR 17 SCALE: 1" = 40' JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: <i>[Signature]</i> Date: <u>5-15-17</u>
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" HIGH PIPES LOCATION: 1/2 MILES EAST OF INTX OF MAIN ST. & HERITAGE 10' ON ROCK MOUNTAIN 100' EASTERLY OF 10' HORIZONTAL 10' HIGH BOULDER & 1700' SOUTHERLY 2' WATER STORAGE FACILITY. (75' 1359 PER R.O.S. 4841) ELEV=229.319' (NVD/93)	Horizontal 1" = 40' Vertical N/A	Field	Plans Prepared Under Supervision Of THOMAS A. PICARD			Kelly Broughton Director of Development Services or designee.

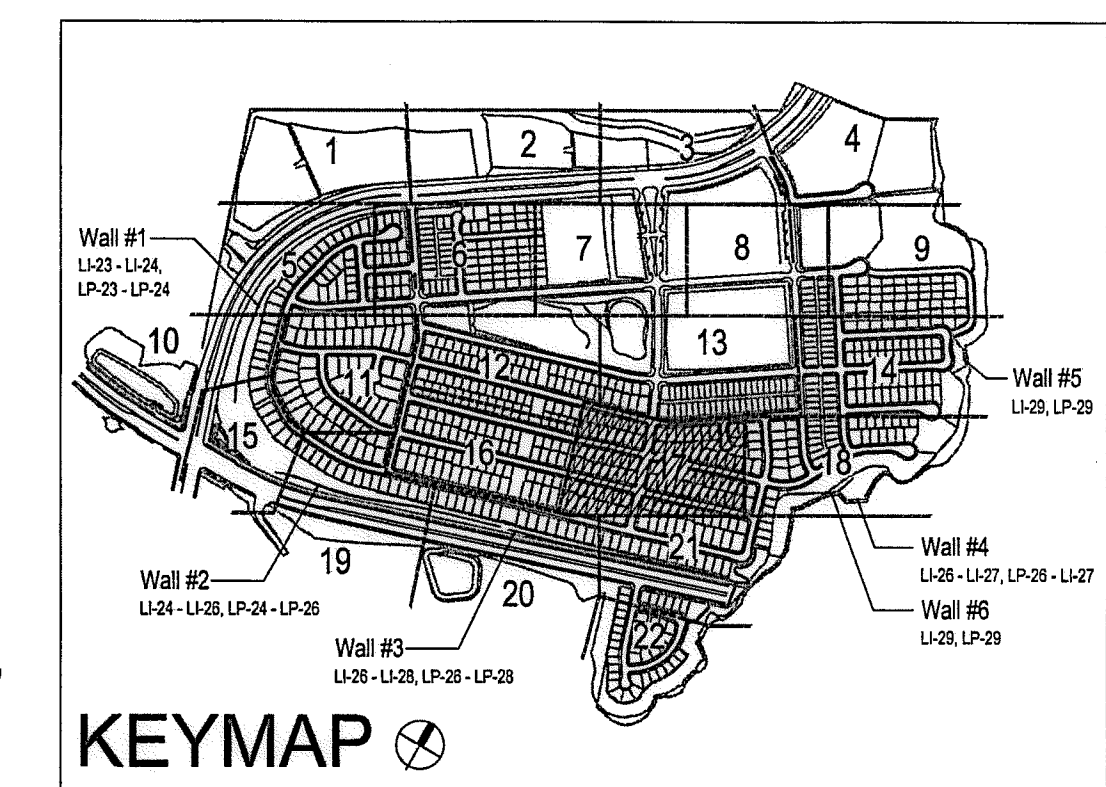
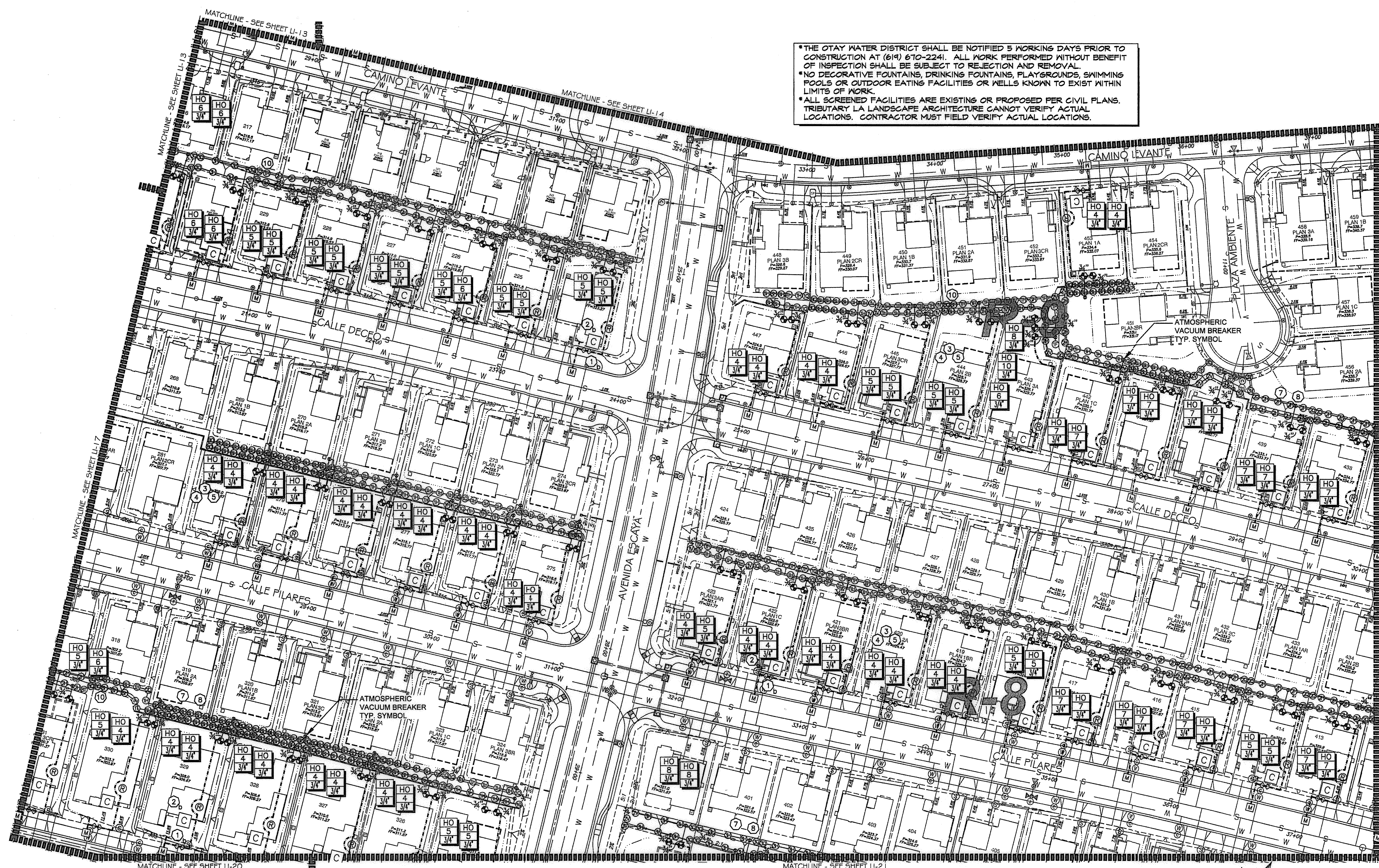
<b>CITY OF CHULA VISTA</b> LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02		Drawing No. <b>16050 - 24</b> Sheet 24 of 88
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Print Date: 10 APR 17  
OWD WO# D0944-060189  
Otay Ranch, Village 3 - Slope & Erosion Control

CONSTRUCTION NOTES:

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OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 PZ 624, 711 RPZ 680  
 REVIEWED BY: *[Signature]* DATE: 5/10/17  
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"AS-BUILT"  
 SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
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 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP.



Tributary LA, Inc.  
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DATE:	10 APR '17
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	APPROVED	DATE	CITY OF CHULA VISTA	Drawing No.
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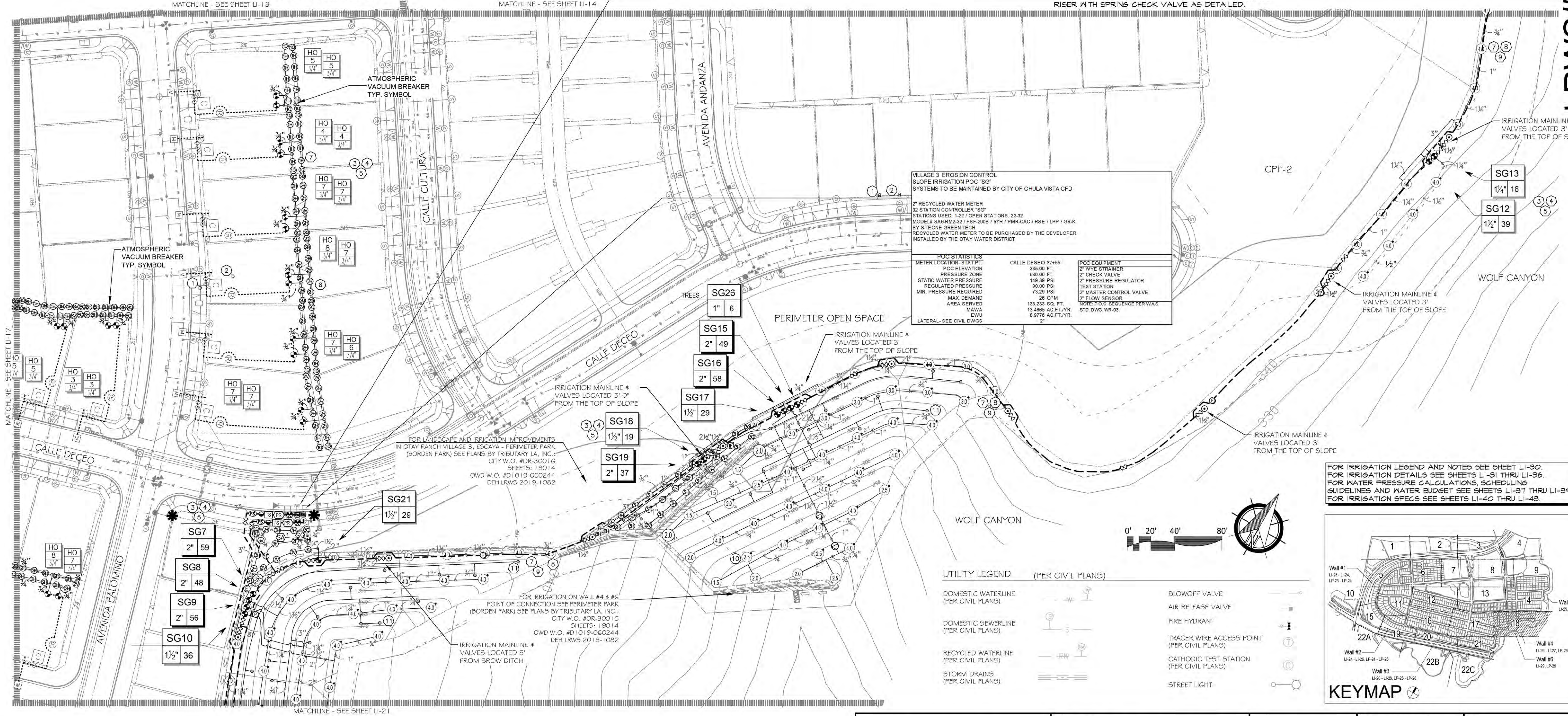
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VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "SA1" SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD		
1-1/2" RECYCLED WATER METER 24 STATION CONTROLLER "SA1" STATIONS USED: 1-17 / OPEN STATIONS: 18-24 MODEL# S48-RM24 / FSF-2008 / SYR / PMR-CAC / RSE / LPP / GRK BY SITEONE GREEN TECH RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER INSTALLED BY THE OTAY WATER DISTRICT		
METER LOCATION: STAY PT. POC ELEVATION PRESSURE ZONE STATIC WATER PRESSURE REGULATED PRESSURE MIN. PRESSURE REQUIRED MAX. DEMAND AREA SERVED M.A.V.A. E.W.U. LATERAL: SEE CIVIL DWGS	CALLE DESEO 32+60 335.00 FT. 680.00 FT. 149.39 PSI 90.00 PSI 37.66 PSI 58 GPM 42,688 SQ. FT. 4,1587 AC.FT./YR. 2.7725 AC.FT./YR. 2"	POC EQUIPMENT 1-1/2" WYE STRAINER 1-1/2" CHECK VALVE 1-1/2" PRESSURE REGULATOR TEST STATION 1-1/2" MASTER CONTROL VALVE 1-1/2" FLOW SENSOR NOTE: P.O.C. SEQUENCE PER WAS. STD. DWG. WR-03

- DRIVEWAY AND SIDEWALK CROSSING- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
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  - SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
  - SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
  - RADIUS AND NOZZLE REDUCTION-SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FILL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF 4IN/HR.
  - RAINBIRD SQ-F SERIES MICRO SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
- ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

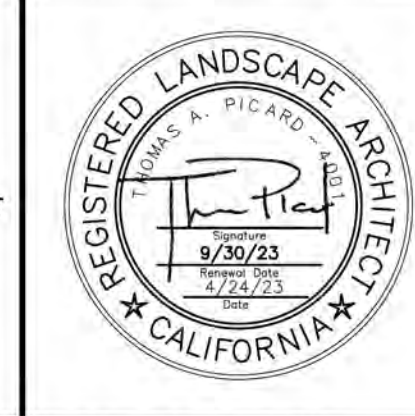


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OTAY WATER DISTRICT  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680  
 REVIEWED BY: *[Signature]* DATE: 5/10/19  
 NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE

"AS-BUILT"  
 SIGNED: *[Signature]* DATE: 4/24/23  
 PRINT NAME: THOMAS PICARD R.L.A. # 4001  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

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 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
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Tributary LA, Inc.  
 Landscape Architecture and Planning  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 24 APR '23  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.M.  
 W.O. NO. OR-3001G

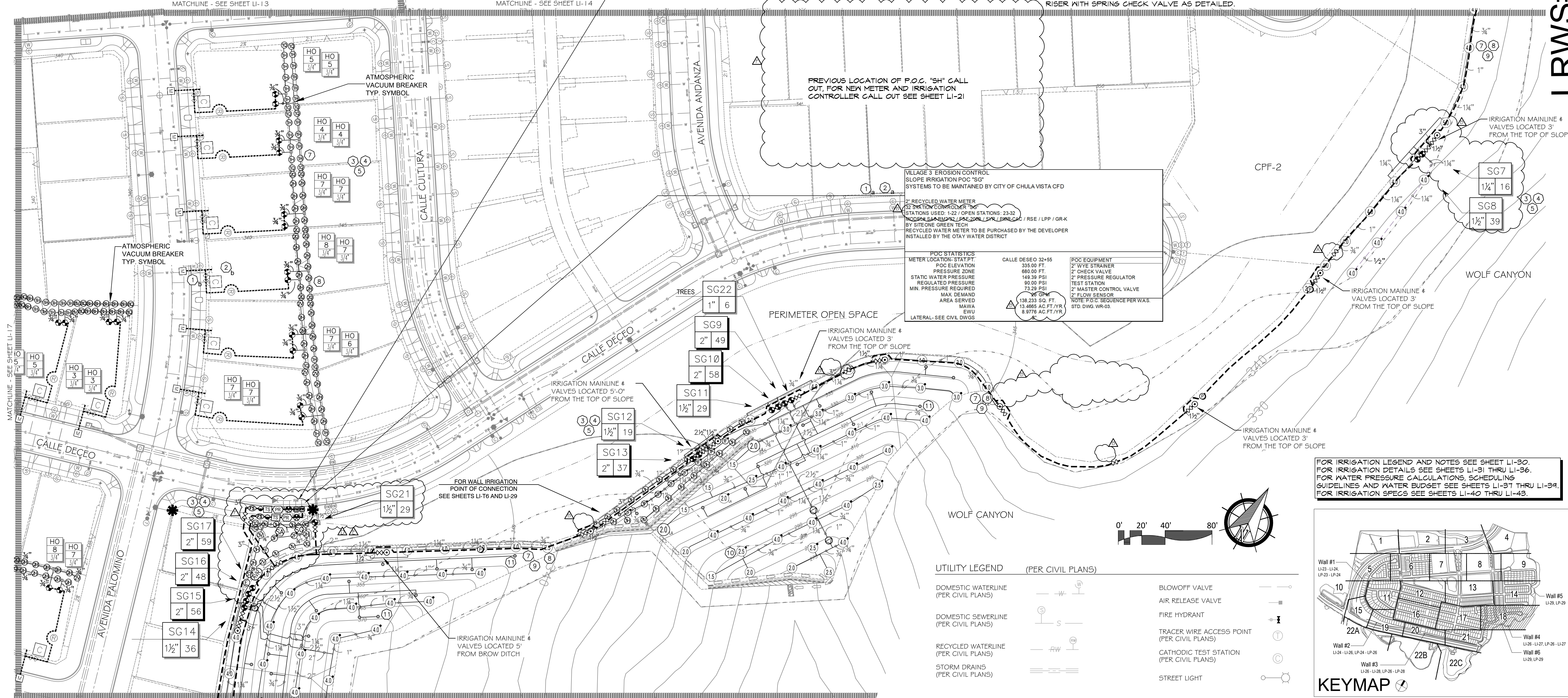
CONTRACTOR	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT OFF VALVES	7/3/16	<i>[Signature]</i>	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'	Office	Thomas A. Picard	Thomas A. Picard	Thomas A. Picard	Approved: <i>[Signature]</i> Date: 4/24/23	5-15-17	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	16050 - 26
Inspector			ADJUST IRRIGATION FOR FUEL MOD AREAS	5-31-19	<i>[Signature]</i>	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH SLOUSER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1358 PER R.O.S. 14841) ELEV=629.319' (NAD83)	Vertical N/A	Field	Thomas A. Picard	Thomas A. Picard	Thomas A. Picard	Approved: <i>[Signature]</i> Date: 4/24/23	5-15-17	CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	Sheet 26 of 88
Date Completed			ADD IRRIG. @ CALLE DESEO STA 32+50					Traffic	Thomas A. Picard	Thomas A. Picard	Thomas A. Picard	Approved: <i>[Signature]</i> Date: 4/24/23	5-15-17	REPLACEMENT SHEET	LRWS# 2019-1134

LRWS# 2019-1134  
 OWD WO# D0944-060189  
 Otay Ranch, Village 3 - Slope & Erosion Control  
 Print Date: 24 APR '23



**CONSTRUCTION NOTES:**

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CONTRACTOR	16026-01 - 16026-93	BY	HUNSAKER & ASSOC.	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.	16050 - 26
INSPECTOR				ADD SHUT OFF VALVES	7/3/16	T.M.P.	BRASS DISK MARKED "SO CITY ENGR." IN 3/4" IRON PIPE	Horizontal	Field	Plans Prepared Under	Supervision Of	Date	Approved:		LANDSCAPE IRRIGATION PLAN FOR:		
DATE COMPLETED				ADJUST IRRIGATION FOR FUEL MUD AREAS	5/24/19	T.M.P.	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLARDS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT) 1359 PER R.O.S. 14841 ELEV=629.319 (NAD83)	Vertical	Traffic	THOMAS A. PICARD	R.L.A. No.	4001	Approved:		OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL		Sheet 26 of 88
				ADD IRRIG. @ CALLE DESEO STA 32+50	5/24/19	T.M.P.		N/A					Approved:		CHULA VISTA TENTATIVE TRACT MAP NO. 13-02		
				CHNG. DRIP 2 SPRAY @ CALLE DESEO 32+50	7/30/17	T.M.P.							Approved:		REPLACEMENT SHEET		
				METER SHIF RE-LOCATED TO MAIN STREET	7/30/17	T.M.P.							Approved:		OWD WO# D0944-060189		

LRWS# 2016-625

Print Date: 23 MAY '22

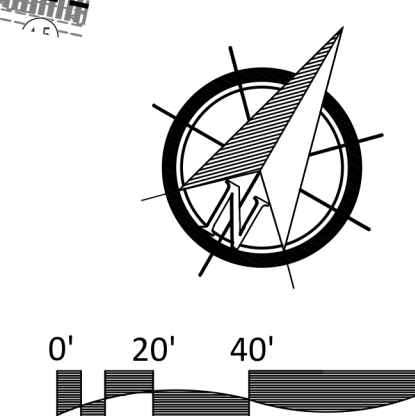
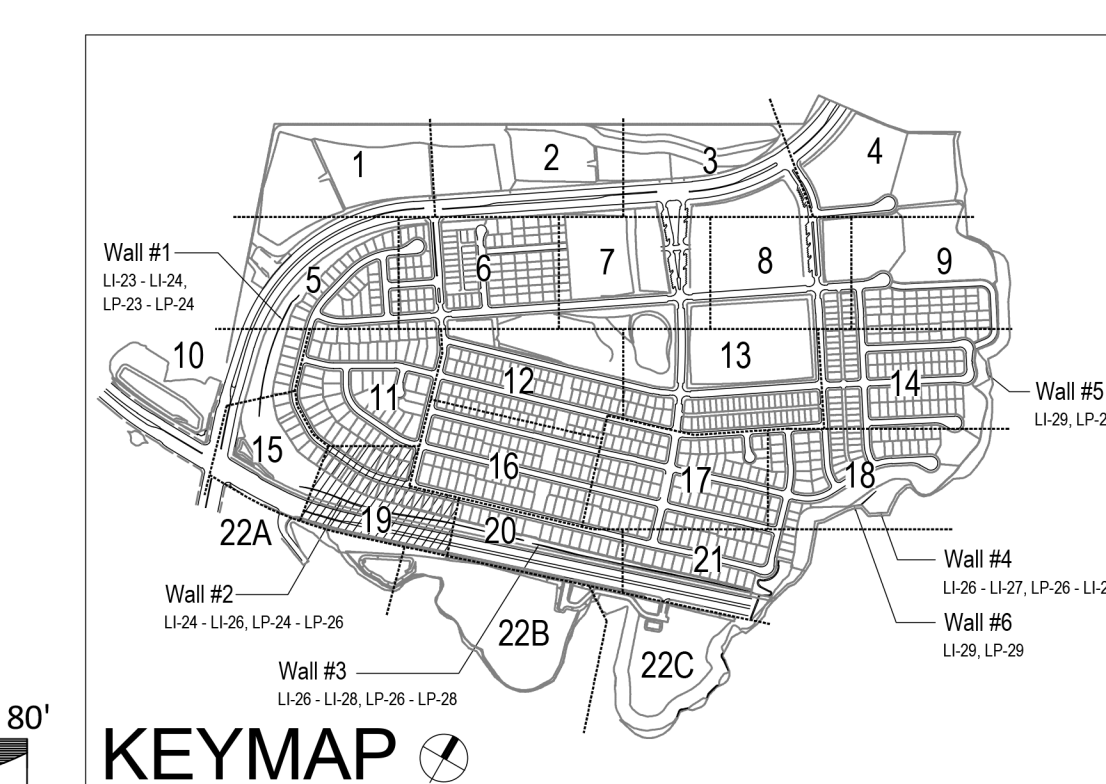
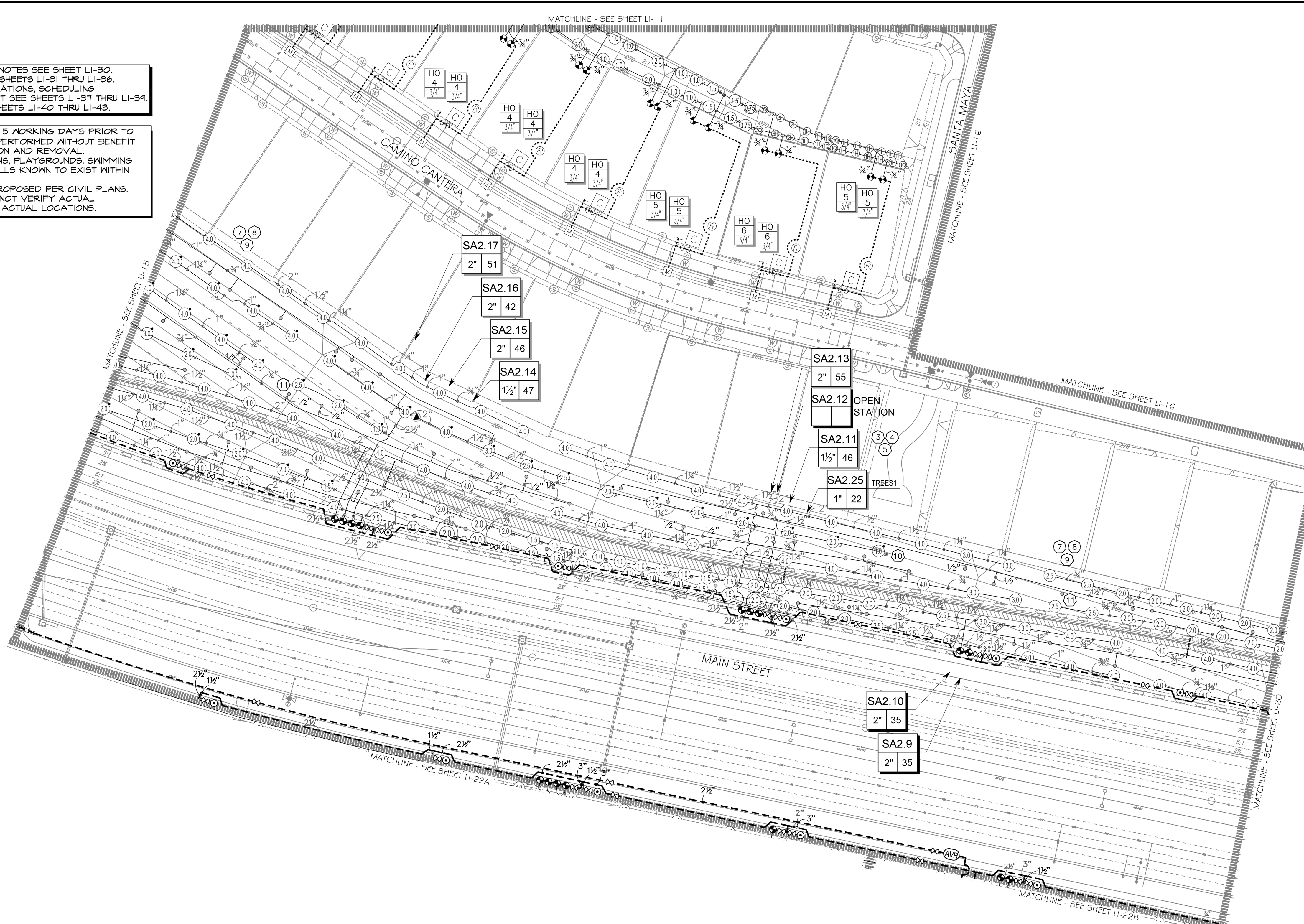
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12. LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRING AND/OR SWING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.

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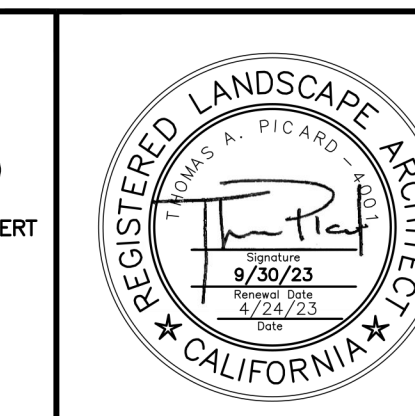
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STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

**OTAY WATER DISTRICT**  
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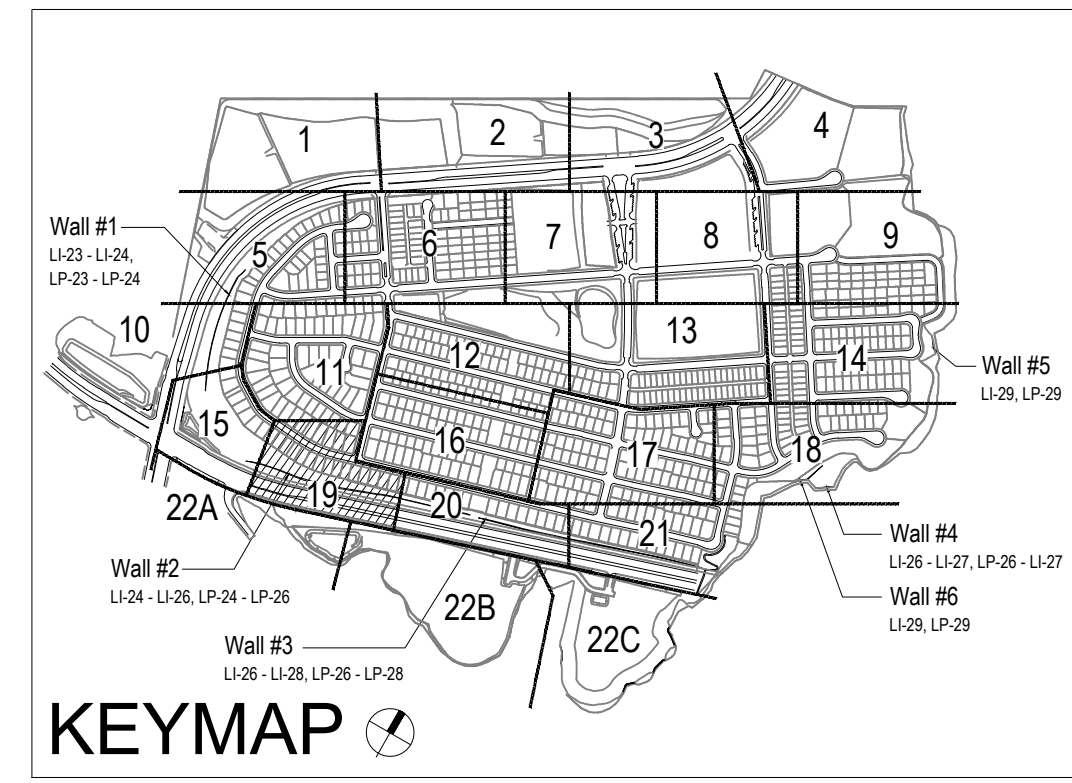
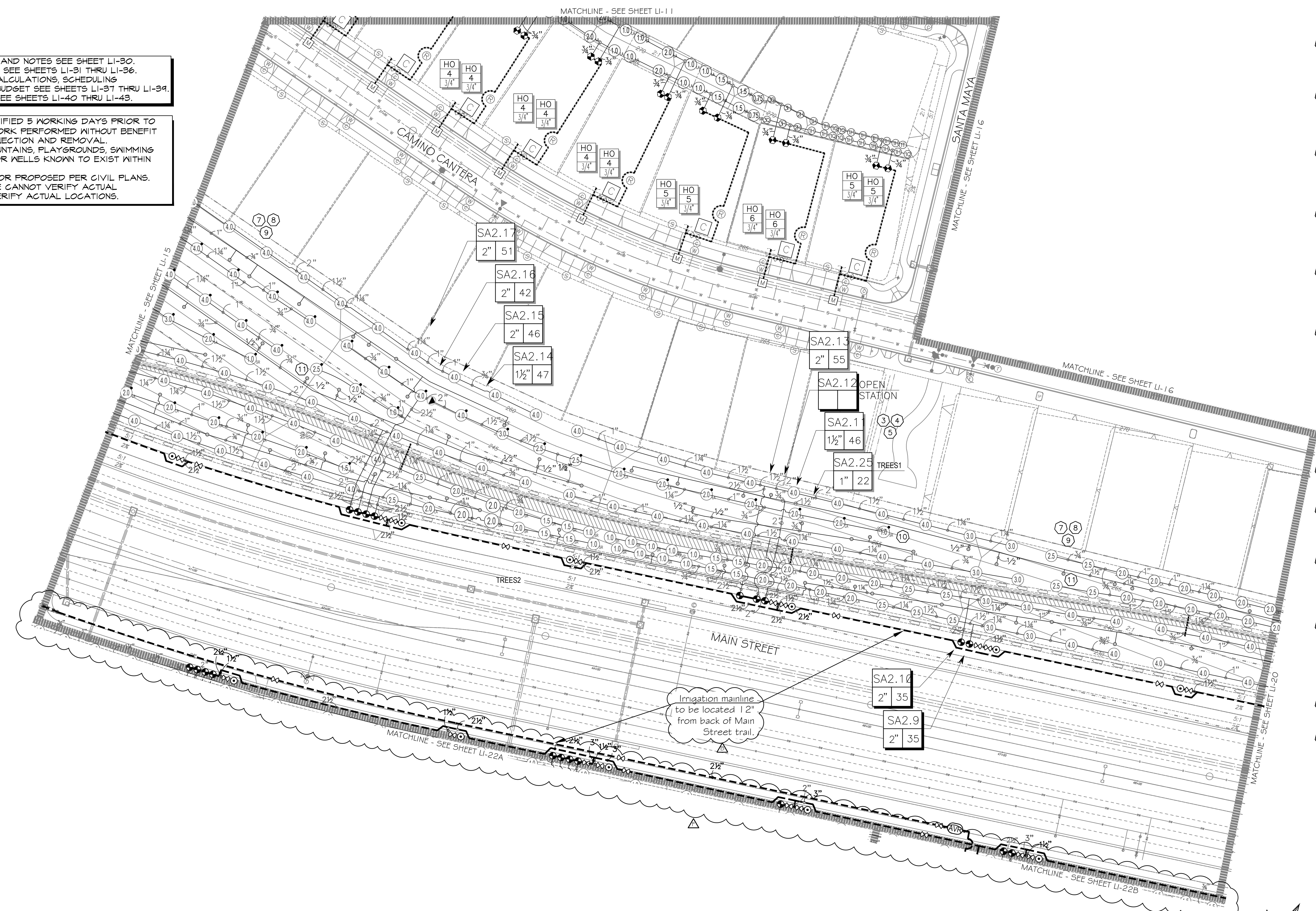
DATE: 24 APR '23  
SCALE: 1" = 40'  
JOB NO. 15024  
DRAWN BY: T.P. / T.G.M.  
W.O. NO. OR-3001G

<b>CONSTRUCTION RECORD</b>	<b>REFERENCES</b> 16026-01 - 16026-93	<b>BY</b> HUNSAKER & ASSOC.	<b>REVISIONS</b>	<b>Date</b> 7/3/16	<b>App'd</b> <i>[Signature]</i>	<b>BENCH MARK</b> DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 14841) ELEV=629.319' (NAD83)	<b>SCALE</b> Horizontal 1" = 40' Vertical N/A	<b>Office</b>	<b>Designed By</b>	<b>Drawn By</b>	<b>Checked By</b>	<b>Plans Originally Approved:</b> 5-15-17	<b>CITY OF CHULA VISTA</b> LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	<b>Drawing No.</b> 16050 - 27 Sheet 27 of 88
<b>Contractor</b>														
<b>Inspector</b>														
<b>Date Completed</b>														

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**OTAY WATER DISTRICT**  
Project No. D0944-060189 LRWS No. 2019-00134  
P.Z. 624, 711 R.P.Z. 680

**"AS-BUILT"**

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
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Carlsbad, CA 92008  
760.434.9300 office 760.434.9303 fax

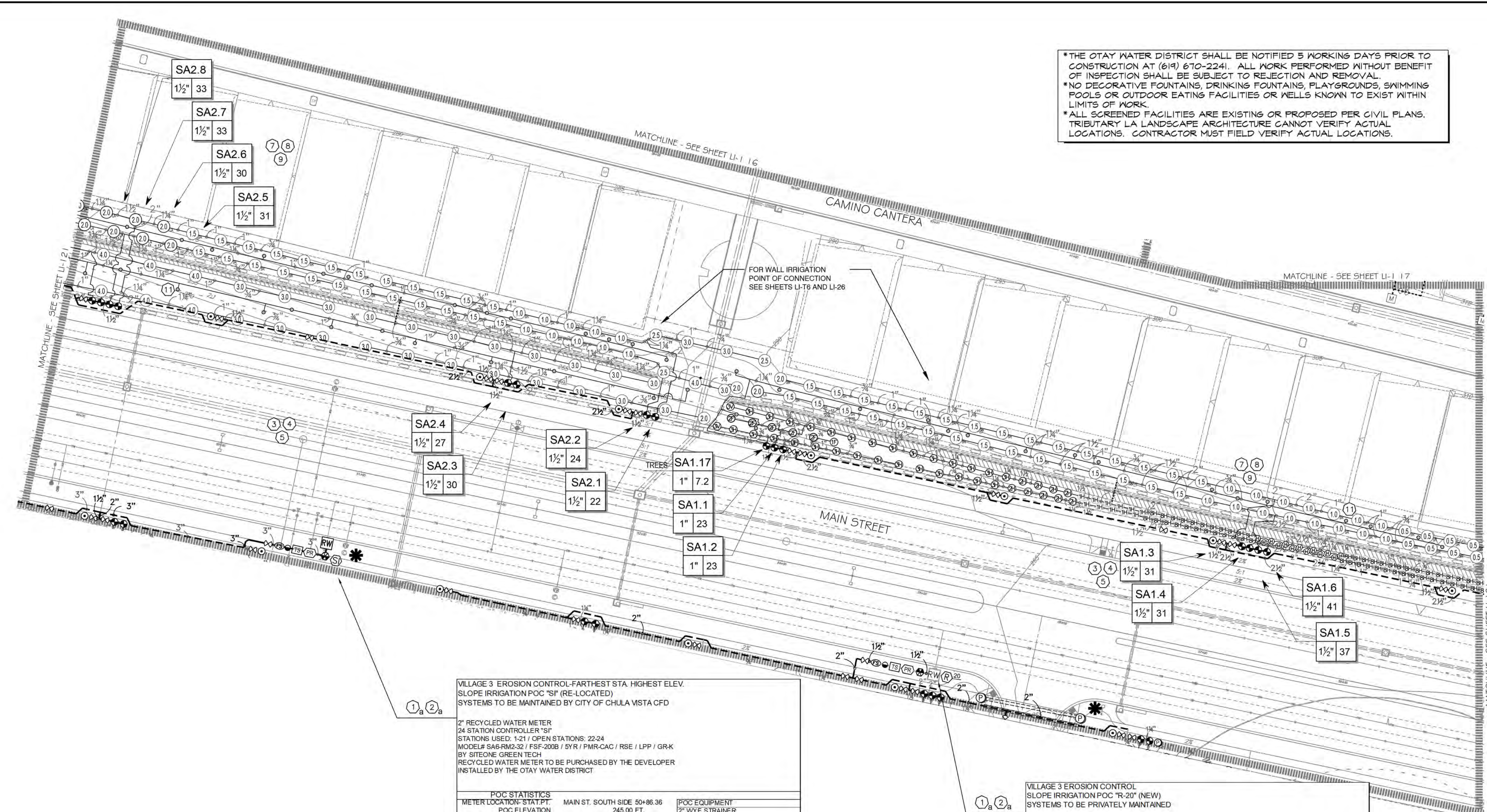
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SCALE: 1" = 40'  
JOB NO. 15024  
DRAWN BY: T.P. / T.G.M.  
W.O. NO. OR-3001G

CONTRACTOR	16026-01 - 16026-93	HUNSAKER & ASSOC.	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Inspector			ADD SHUTOFF VALVES	7/3/16	T.P.	DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal	Field	Plans Prepared Under	Supervision Of	Date	Approved:		LANDSCAPE IRRIGATION PLAN FOR:	16050 - 27
Date Completed			ADDED NOTE FOR MAINLINE LOCATION ALONG MAIN STREET	5/21/14	T.P.	LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLIDERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 14841) ELEV#629.319' (NAD83)	Vertical	Traffic	THOMAS A. PICARD	R.L.A. No.	4001	Director of Development Services or designee.		OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 27 of 68

**CONSTRUCTION NOTES:**

1. IRRIGATION P.O.C. LOCATION SHOWN HAS BEEN COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THIS SERVICE, INSTALL BACKFLOW PREVENTION DEVICE, FLOW CONTROL AND MONITORING EQUIPMENT AND EXTEND SYSTEM AS SHOWN.
1. IRRIGATION P.O.C. FOR PRIVATE SYSTEMS - CONTRACTOR SHALL INSTALL A 1-1/4" TEE DOWNSTREAM OF A DEDICATED PRIVATE METER, INSTALL AN ISOLATION VALVE AND PRESSURE REGULATOR IN A RECTANGULAR VALVE BOX AND EXTEND SYSTEM AS SHOWN. SEE DETAIL B12 ON SHEET LI-32.
2. IRRIGATION CONTROLLER - 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL ROUTE POWER CABLE TO CONTROLLER IN PVC CONDUIT AND MAKE PERMANENT CONNECTION TO THE CONTROLLER. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
2. IRRIGATION CONTROLLER - PRIVATE SYSTEMS. 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL INSTALL AN INDOOR IRRIGATION CONTROLLER AND A RAIN SENSOR. SEE DETAIL B12 ON SHEET LI-32. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
3. LOCATIONS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT TO BE INSTALLED WITHIN PLANTING AREAS OR LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR USC-FMS. ROUTE IRRIGATION MAINLINE AND CONTROL WIRE APPROXIMATELY AS SHOWN 12" TO 18" FROM BACK OF CURB OR WALK.
4. REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)
5. SINGLE REMOTE CONTROL VALVES TO BE INSTALLED ON MANIFOLD IN 12" RECTANGULAR VALVE BOX. INSTALL NO MORE THAN 4 VALVE BOXES IN ONE AREA. SEPARATE VALVE BOX GROUPS BY 4' MIN.
6. DRIVEWAY AND SIDEWALK CROSSINGS- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP)
7. ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
8. SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
9. SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
10. RADIUS AND NOZZLE REDUCTION-SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FULL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF .4IN/HR.
11. HUNTER PROS-00-PR530 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
12. LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRINGS AND/OR SWING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.



VILLAGE 3 EROSION CONTROL-FARTHEST STA. HIGHEST ELEV. SLOPE IRRIGATION POC "SI" (RE-LOCATED) SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CDP

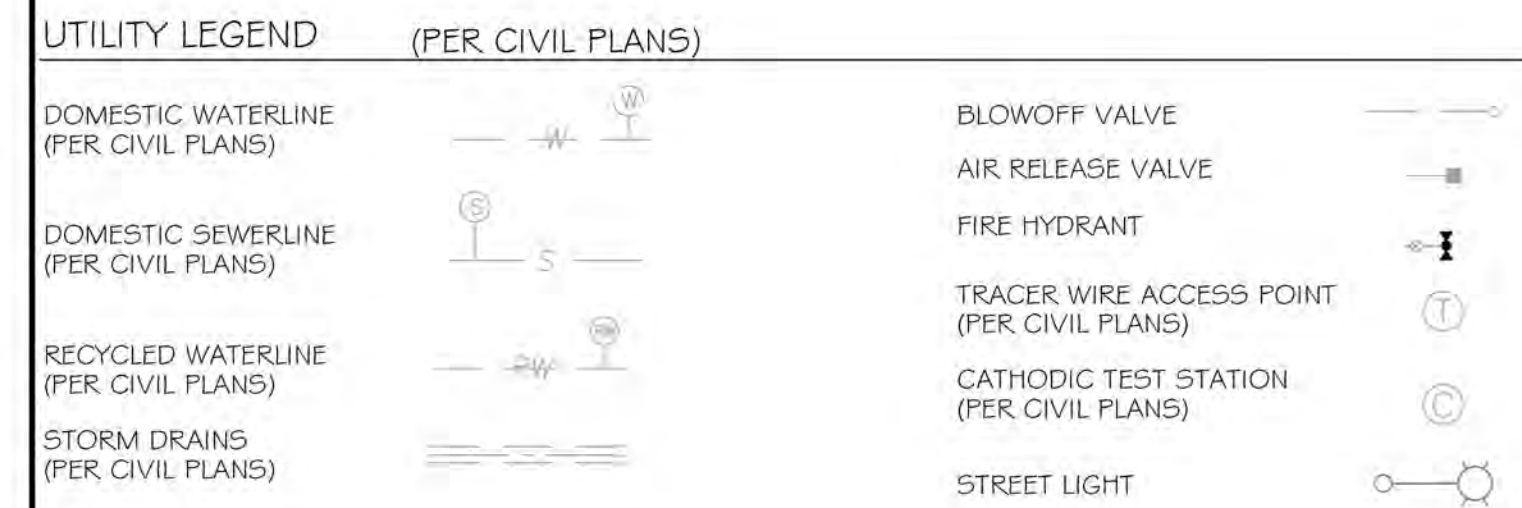
2" RECYCLED WATER METER  
 24 STATION CONTROLLER "S1"  
 STATIONS USED: 1-21 / OPEN STATIONS: 22-24  
 MODEL# SAG-RM2-32 / FSF-200B / 5YR / PMR-CAC / RSE / LPP / GRK  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION: STAT.PT.	MAIN ST. SOUTH SIDE 50+86.36	2" WYE STRAINER	
POC ELEVATION	245.00 FT.	2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	188.38 PSI	TEST STATION	
REGULATED PRESSURE	140.00 PSI	2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	104.54 PSI	2" FLOW SENSOR	
MAX. DEMAND	33 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S.	
AREA SERVED	70.671 SQ. FT.	STD. DWG. WR-03.	
M.A.W.A.	6.8847 AC.FT./YR.		
E.W.U.	4.5888 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS	2"		

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "R-20" (NEW) SYSTEMS TO BE PRIVATELY MAINTAINED

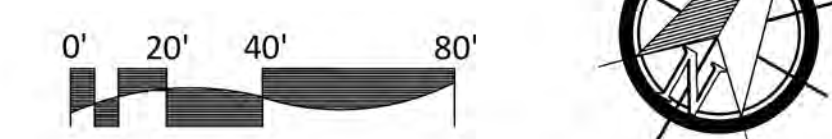
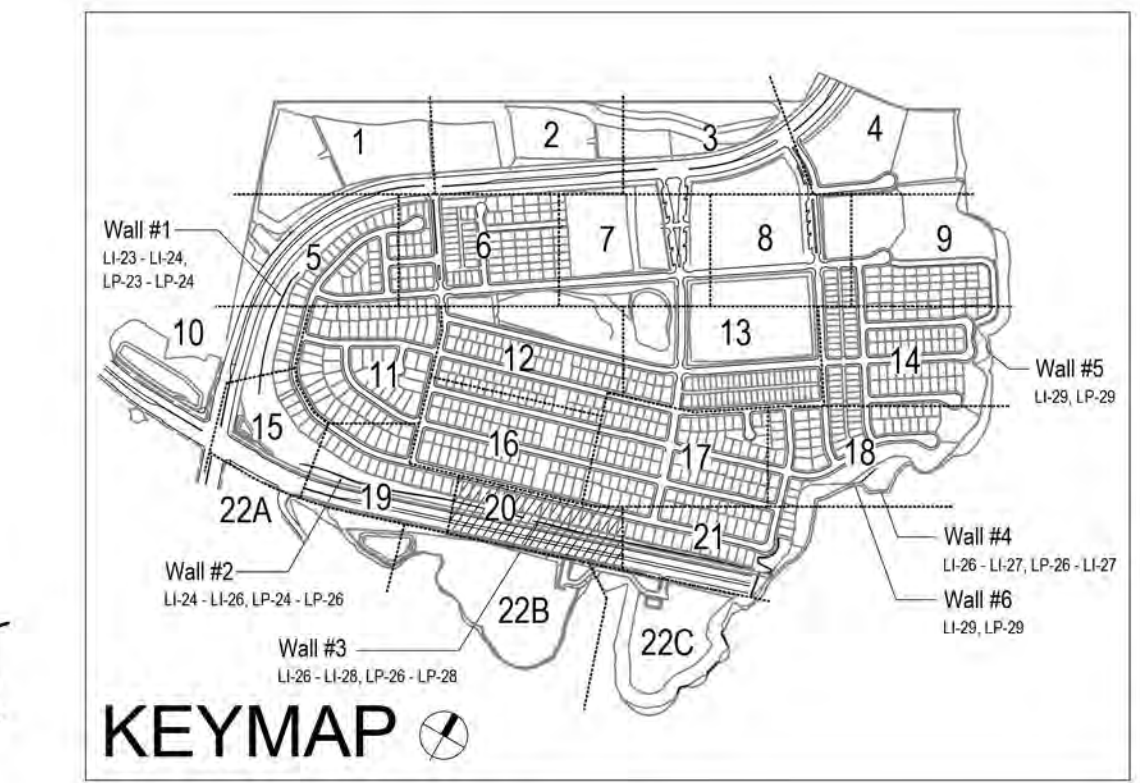
1.5" RECYCLED WATER METER  
 12 STATION CONTROLLER "R20"  
 STATIONS USED: 1-9 / OPEN STATIONS: 10-12  
 MODEL# SAG-RM2-12 / FSF-150P / RSE / LPP / GRK  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION: STAT.PT.	MAIN ST. SOUTH SIDE 54+15	1-1/2" WYE STRAINER	
POC ELEVATION	265.00 FT.	1-1/2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	179.70 PSI	TEST STATION	
REGULATED PRESSURE	80.00 PSI	1-1/2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	68.69 PSI	1-1/2" FLOW SENSOR	
MAX. DEMAND	28 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S.	
AREA SERVED	15.274 SQ. FT.	STD. DWG. WR-03.	
M.A.W.A.	1.4879 AC.FT./YR.		
E.W.U.	0.9919 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS	2"		



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FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30.  
 FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36.  
 FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39.  
 FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.



CONSTRUCTION RECORD		REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.	
Contractor		16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT OFF VALVES	7/3/16	T.A.P.	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMONT 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (77' 1358 PER R.O.S. 14841) ELEV=629.319' (NAD83)	Horizontal 1" = 40' Vertical N/A						Plans Prepared Under Supervision Of Date: 4/24/23 THOMAS A. PICARD R.L.A. No. 4001	Approved: Date: Tiffany Allen Director of Development Services or designee.	LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 28
Inspector																Sheet 28 of 88	
Date Completed															REPLACEMENT SHEET	OWD WO# D0944-060189 OWD PERMIT# PLR-16-014 LI-20	

**"AS-BUILT"**

SIGNED: *THP* DATE: 4/24/23

PRINT NAME: THOMAS PICARD R.L.A. # 4001

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

IT'S THE LAW! DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

**Tributary LA, Inc.**  
 Landscape Architecture and Planning

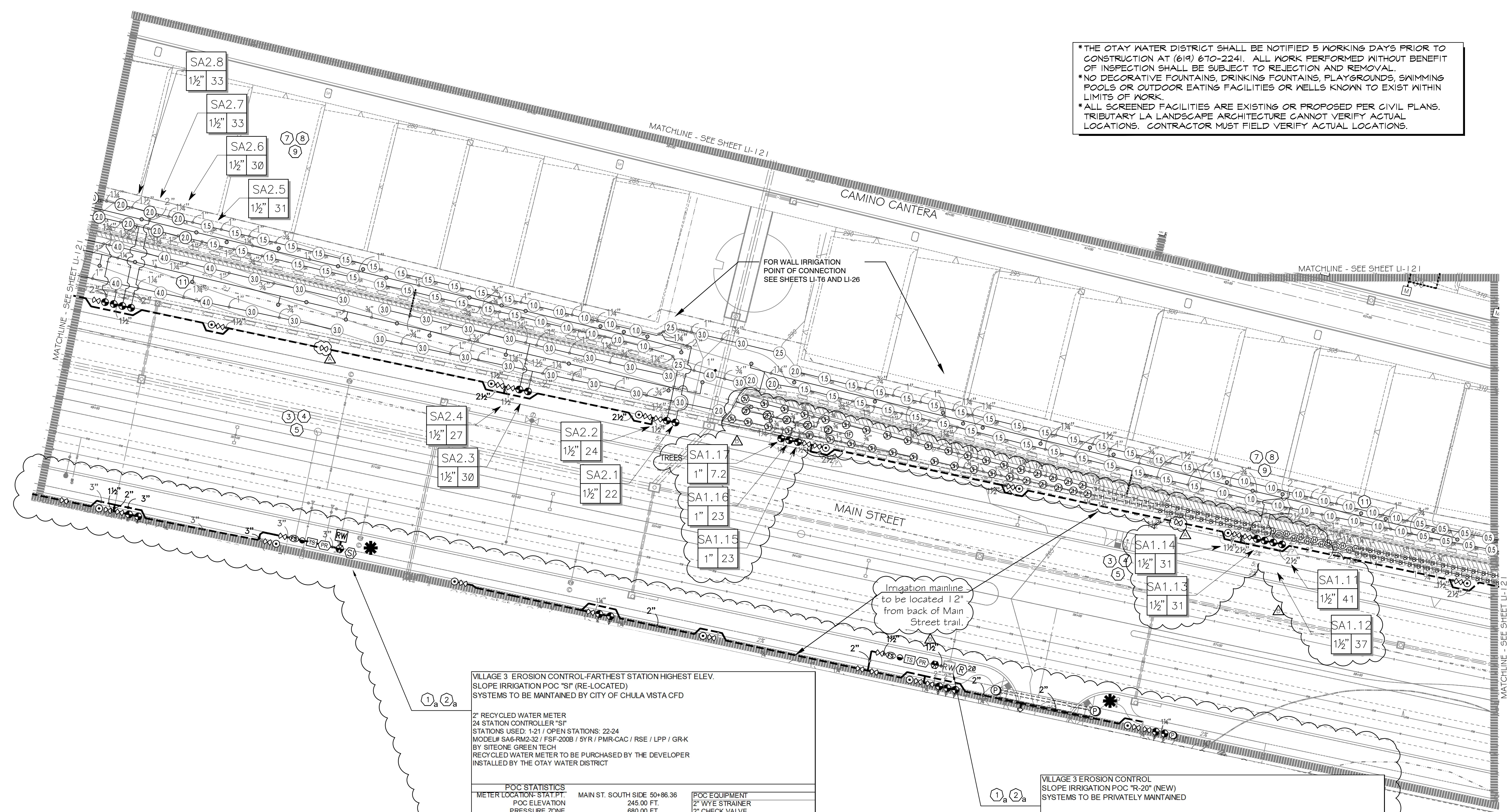
2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 24 APR '23  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.M.  
 W.O. NO. OR-3001G

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- SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOY CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
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- HUNTER PROS-00-PR330 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
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VILLAGE 3 EROSION CONTROL-FARTHEST STATION HIGHEST ELEV. SLOPE IRRIGATION POC "S1" (RE-LOCATED) SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD

2" RECYCLED WATER METER  
 24 STATION CONTROLLER "S1"  
 STATIONS USED: 1-21 / OPEN STATIONS: 22-24  
 MODEL# SA6-RM2-32 / FSF-2008 / 5YR / PMR-CAC / RSE / LPP / GR-K  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION-STAT.PT.	MAIN ST. SOUTH SIDE 50+86.36	2" WYE STRAINER	
POC ELEVATION	245.00 FT.	2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	188.36 PSI	TEST STATION	
REGULATED PRESSURE	140.00 PSI	2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	104.54 PSI	2" FLOW SENSOR	
MAX DEMAND	33 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S.	
AREA SERVED	70.671 SQ. FT.	STD. DWG. WR-03.	
MAWA	6.8847 AC.FT./YR.		
E-WU	4.5898 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS			

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "R-20" (NEW) SYSTEMS TO BE PRIVATELY MAINTAINED

1.5" RECYCLED WATER METER  
 12 STATION CONTROLLER "R20"  
 STATIONS USED: 1-8 / OPEN STATIONS: 10-12  
 MODEL# SA6-RM20-12 / FSF-150P / RSE / LPP / GR-K  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

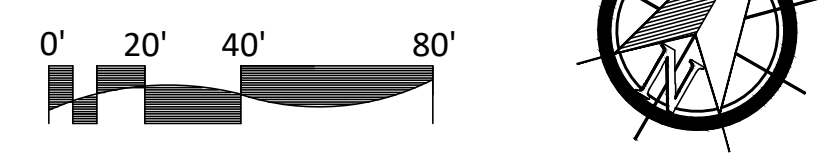
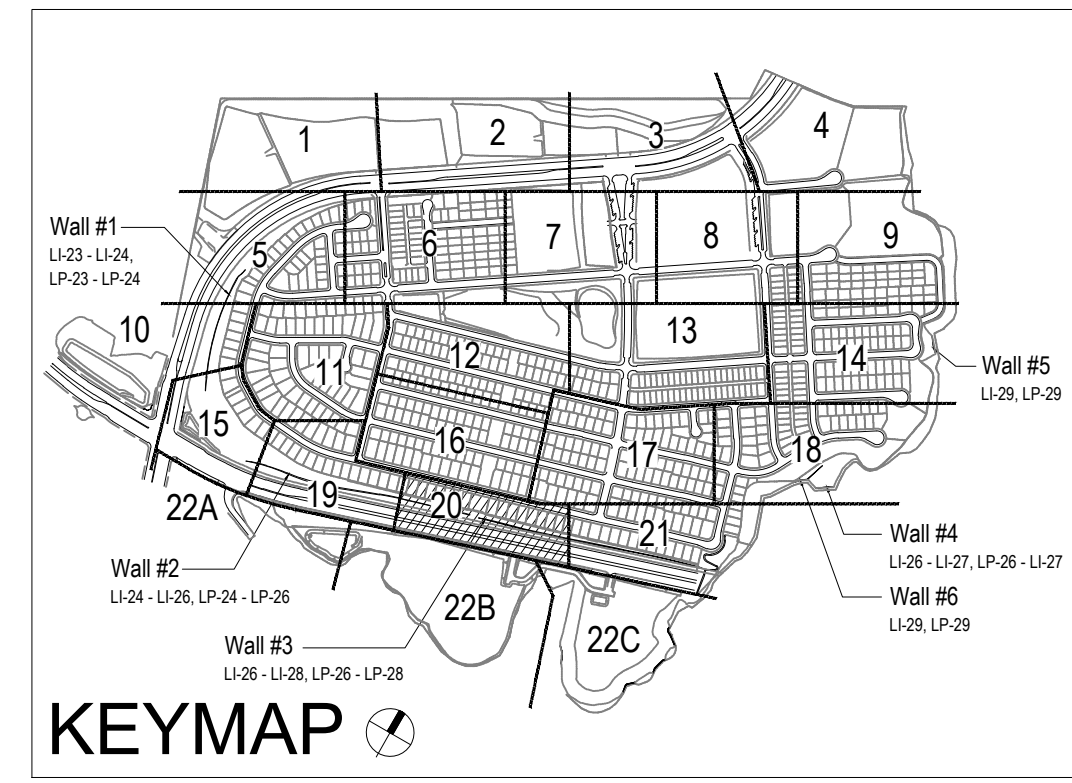
POC STATISTICS		POC EQUIPMENT	
METER LOCATION-STAT.PT.	MAIN ST. SOUTH SIDE 54+15	1-1/2" WYE STRAINER	
POC ELEVATION	265.00 FT.	1-1/2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	179.70 PSI	TEST STATION	
REGULATED PRESSURE	80.00 PSI	1-1/2" MASTER CONTROL VALVE	
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MAWA	1.4879 AC.FT./YR.		
E-WU	0.9919 AC.FT./YR.		
LATERAL-SEE CIVIL DWGS			

**UTILITY LEGEND (PER CIVIL PLANS)**

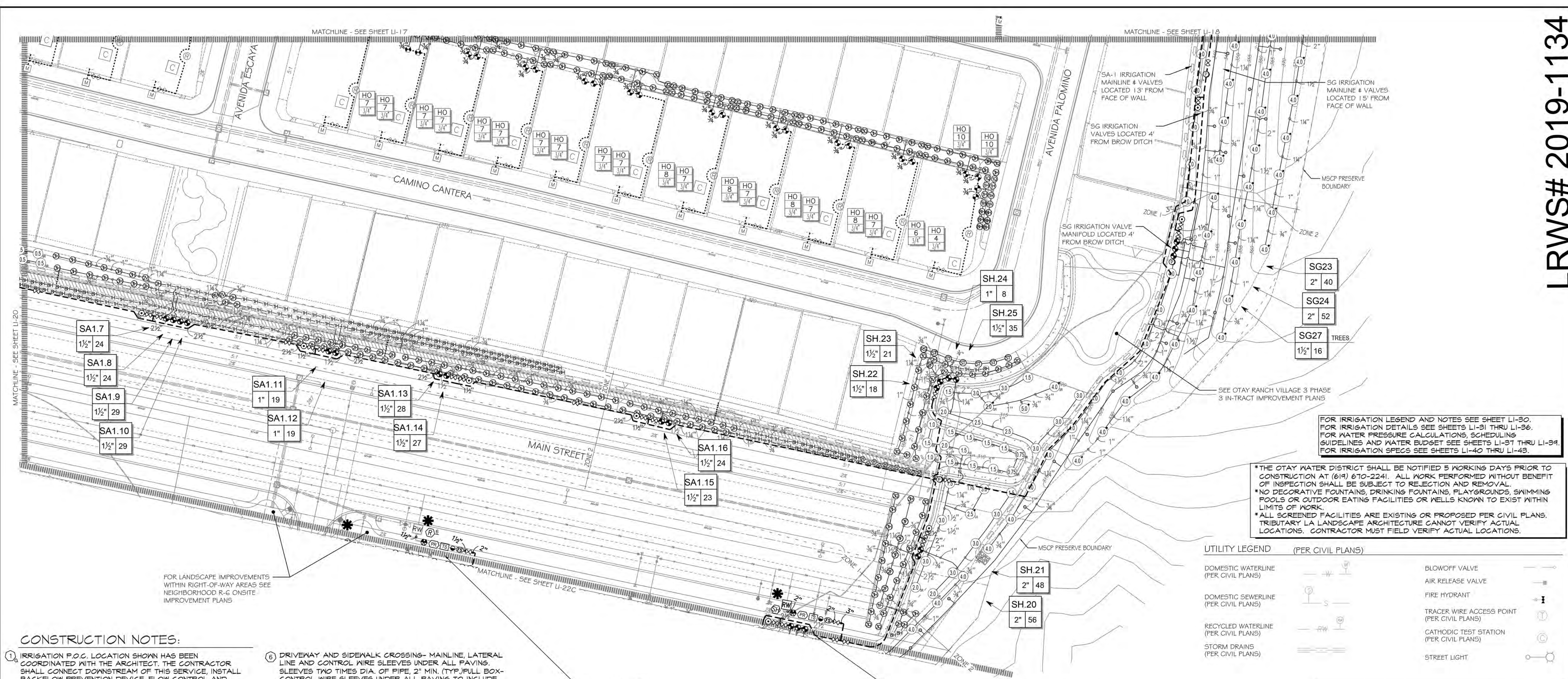
DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
DOMESTIC SEWERLINE (PER CIVIL PLANS)	AIR RELEASE VALVE
RECYCLED WATERLINE (PER CIVIL PLANS)	FIRE HYDRANT
STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

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 FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39.  
 FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.



CONTRACTOR	16026-01 - 16026-93	BY HUNSAKER & ASSOC.	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Inspector			ADD SHUT OFF VALVES.	7/3/16	TAMR	BRASS DISK MARKED "50 CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'	Field	Plans Prepared Under	Supervision Of		Approved:		LANDSCAPE IRRIGATION PLAN FOR:	16050 - 28
Date Completed			ADD MAINLINE NOTE-REPLACE L-20 FOR SPRAY			LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLDERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1481) ELEV=629.319' (NAD83)	Vertical N/A	Traffic	THOMAS A. PICARD	Tiffany Allen	4001	Director of Development Services or designee.		OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 28 of 88



FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30. FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36. FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39. FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

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UTILITY LEGEND (PER CIVIL PLANS)		BLOWOFF VALVE	
DOMESTIC WATERLINE (PER CIVIL PLANS)		AIR RELEASE VALVE	
DOMESTIC SEWERLINE (PER CIVIL PLANS)		FIRE HYDRANT	
RECYCLED WATERLINE (PER CIVIL PLANS)		TRACER WIRE ACCESS POINT (PER CIVIL PLANS)	
STORM DRAINS (PER CIVIL PLANS)		CATHODIC TEST STATION (PER CIVIL PLANS)	
		STREET LIGHT	

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- IRRIGATION CONTROLLER - PRIVATE SYSTEMS. 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL INSTALL AN INDOOR IRRIGATION CONTROLLER AND A RAIN SENSOR. SEE DETAIL B12 ON SHEET LI-34. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
- LOCATIONS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT TO BE INSTALLED WITHIN PLANTING AREAS OR LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR USC-FMS. ROUTE IRRIGATION MAINLINE AND CONTROL WIRE APPROXIMATELY AS SHOWN 12" TO 18" FROM BACK OF CURB OR WALK.
- REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)
- SINGLE REMOTE CONTROL VALVES TO BE INSTALLED ON MANIFOLD IN 12" RECTANGULAR VALVE BOX. INSTALL NO MORE THAN 4 VALVE BOXES IN ONE AREA. SEPARATE VALVE BOX GROUPS BY 4' MIN.

- DRIVEWAY AND SIDEWALK CROSSING- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
- ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
- SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOV CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
- SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOV CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
- RADIUS AND NOZZLE REDUCTION- SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FILL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF 4IN/HR.
- RAINBIRD SQ-F SERIES MICRO SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.

ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL, AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

FOR LANDSCAPE IMPROVEMENTS WITHIN RIGHT-OF-WAY AREAS SEE NEIGHBORHOOD R-G ONSITE IMPROVEMENT PLANS

1a 2a

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "R-6" (NEW) SYSTEMS TO BE PRIVATELY MAINTAINED

1.5" RECYCLED WATER METER  
 8 STATION CONTROLLER "R8"  
 STATIONS USED: 1-5 / OPEN STATIONS: 6-8  
 MODEL# SAG-RM2-32 / FSF-150P / RSE / LPP / GRK  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

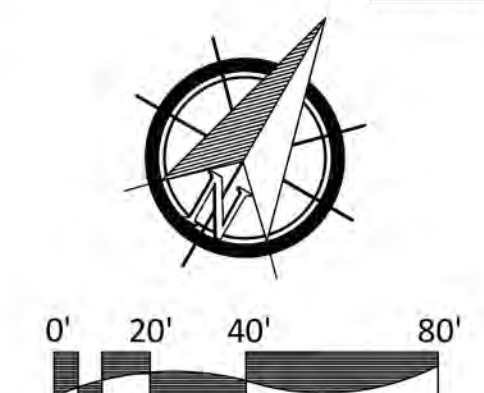
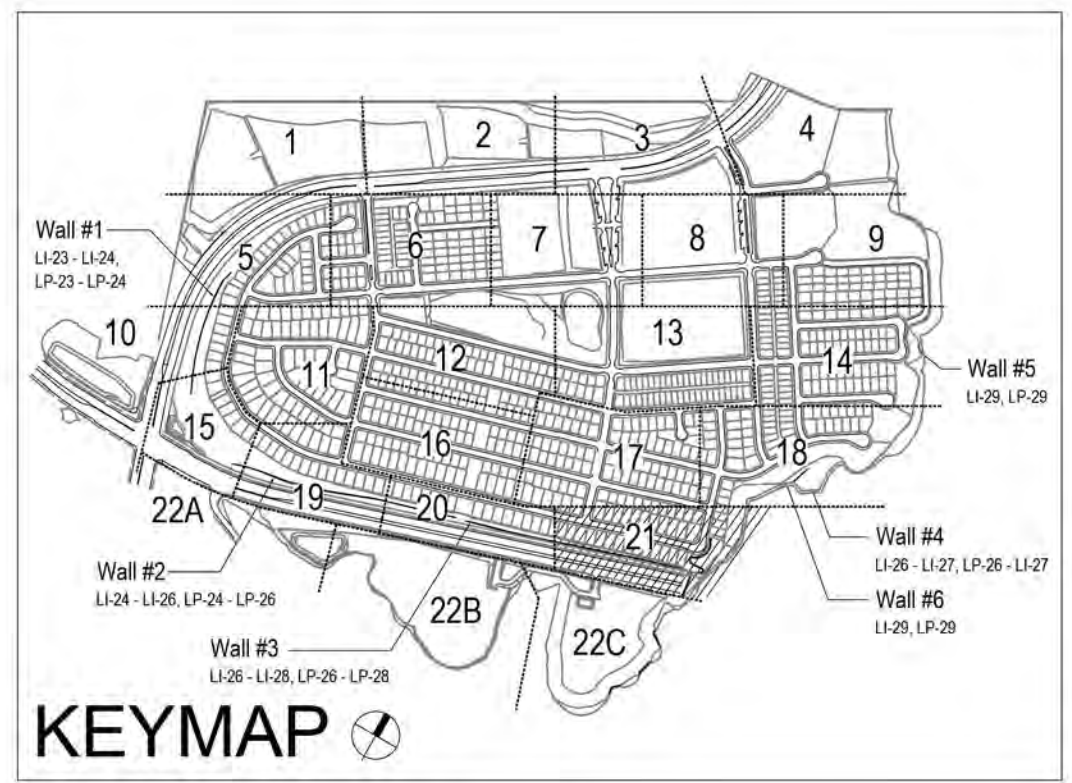
POC STATISTICS		POC EQUIPMENT	
METER LOCATION- STAT.PT.	MAIN ST. SOUTH SIDE 63+80	1-1/2" WYE STRAINER	
POC ELEVATION	295.00 FT.	1-1/2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	1-1/2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	166.71 PSI	TEST STATION	
REGULATED PRESSURE	80.00 PSI	1-1/2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	66.80 PSI	1-1/2" FLOW SENSOR	
MAX. DEMAND	15 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S.	
AREA SERVED	5,186 SQ. FT.	STD. DWG. WR-03.	
MAWA	0.5052 AC.FT./YR.		
LATERAL- SEE CIVIL DWGS	0.3366 AC.FT./YR.		

1a 2a

VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "SH" (RE-LOCATED) SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD

2" RECYCLED WATER METER  
 32 STATION CONTROLLER "SH"  
 STATIONS USED: 1-25 / OPEN STATIONS: 26-32  
 MODEL# SAG-RM2-32 / FSF-200B / 5YR / PMR-CAC / RSE / LPP / GRK  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS		POC EQUIPMENT	
METER LOCATION- STAT.PT.	MAIN ST. SOUTH SIDE 65+80	2" WYE STRAINER	
POC ELEVATION	305.00 FT.	2" CHECK VALVE	
PRESSURE ZONE	680.00 FT.	2" PRESSURE REGULATOR	
STATIC WATER PRESSURE	162.38 PSI	TEST STATION	
REGULATED PRESSURE	60.00 PSI	2" MASTER CONTROL VALVE	
MIN. PRESSURE REQUIRED	37.81 PSI	2" FLOW SENSOR	
MAX. DEMAND	32 GPM	NOTE: P.O.C. SEQUENCE PER W.A.S.	
AREA SERVED	147,696 SQ. FT.	STD. DWG. WR-03.	
MAWA	14.3882 AC.FT./YR.		
LATERAL- SEE CIVIL DWGS	9.9521 AC.FT./YR.		



**OTAY WATER DISTRICT**  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680

SIGNED: *Thomas Picard* DATE: 4/24/23  
 PRINT NAME: THOMAS PICARD R.L.A. # 4001  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. 9/30/23

REVIEWED BY: *Thomas Picard* DATE: 5/10/19  
 NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE

"AS-BUILT"

IT'S THE LAW! DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

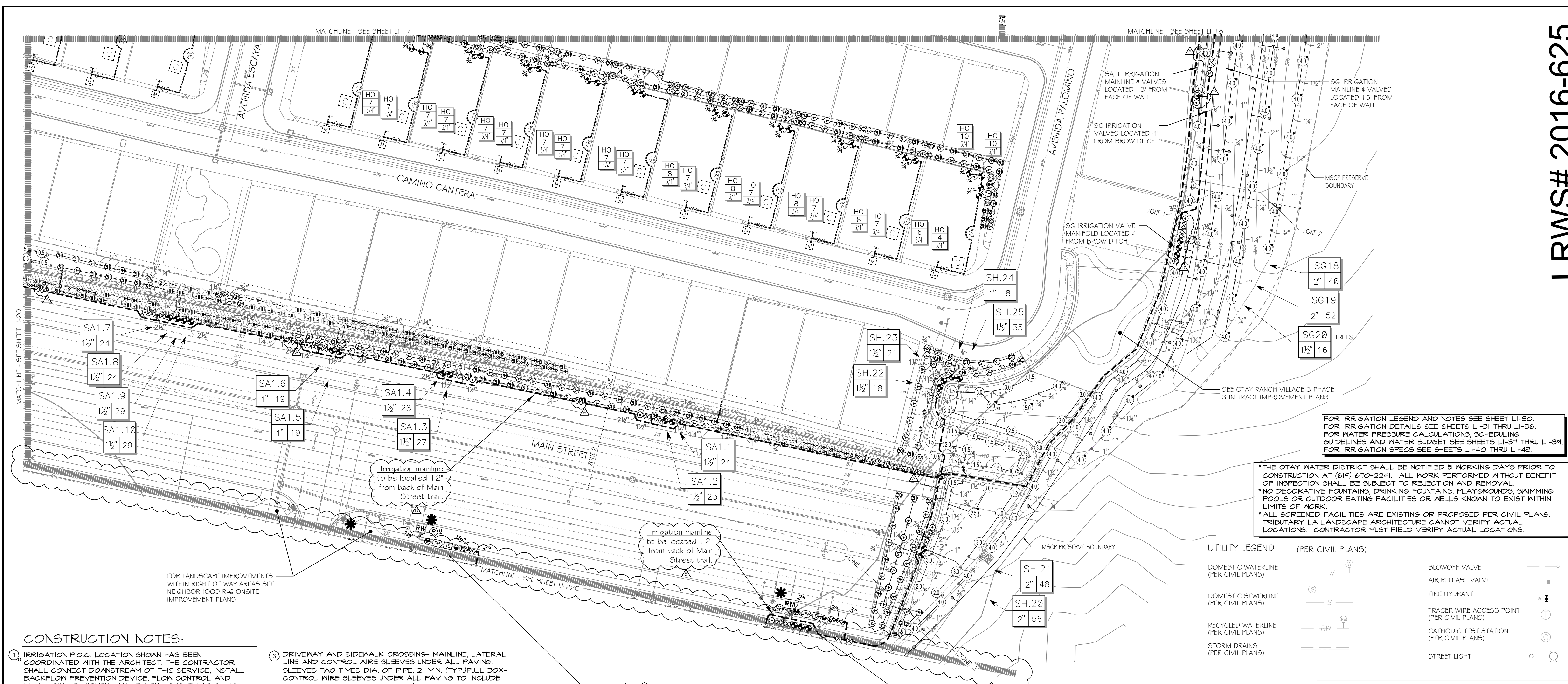
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

**REGISTERED LANDSCAPE ARCHITECT**  
 THOMAS A. PICARD  
 9/30/23  
 9/24/23

**Tributary LA, Inc.**  
 Landscape Architecture and Planning  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 24 APR '23  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P. / T.G.M.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT OFF VALVES	7/3/16	THOMAS PICARD	BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE	Horizontal	Office	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	REPLACEMENT SHEET	16050 - 29
Inspector			ADD MAINLINE NOTE ON MAIN STREET	5/10/19	THOMAS PICARD	1.5' MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (UTM 1358 PER R.O.S. 14841) ELEV=629.319' (NAD83)	Vertical	Field	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	REPLACEMENT SHEET	16050 - 29	
Date Completed							N/A	Traffic	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	THOMAS A. PICARD	REPLACEMENT SHEET	16050 - 29	



FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30.  
 FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36.  
 FOR WATER PRESSURE CALCULATIONS, SCHEDULING  
 GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39.  
 FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

UTILITY LEGEND (PER CIVIL PLANS)	
DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
DOMESTIC SEWERLINE (PER CIVIL PLANS)	AIR RELEASE VALVE
RECYCLED WATERLINE (PER CIVIL PLANS)	FIRE HYDRANT
STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT

**CONSTRUCTION NOTES:**

- IRRIGATION P.O.C. LOCATION SHOWN HAS BEEN COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THIS SERVICE, INSTALL BACKFLOW PREVENTION DEVICE, FLOW CONTROL AND MONITORING EQUIPMENT AND EXTEND SYSTEM AS SHOWN.
- IRRIGATION P.O.C. FOR PRIVATE SYSTEMS - CONTRACTOR SHALL INSTALL A 1-1/4" TEE DOWNSTREAM OF A DEDICATED PRIVATE METER, INSTALL AN ISOLATION VALVE AND PRESSURE REGULATOR IN A RECTANGULAR VALVE BOX AND EXTEND SYSTEM AS SHOWN. SEE DETAIL B12 ON SHEET LI-39.
- IRRIGATION CONTROLLER - PRIVATE SYSTEMS. 120 VAC POWER TO BE PROVIDED BY OWNER. CONTRACTOR SHALL ROUTE POWER CABLE TO CONTROLLER IN PVC CONDUIT AND MAKE PERMANENT CONNECTION TO THE CONTROLLER. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING ORDINANCE AND/OR LOCAL CODE.
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- REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)
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- DRIVEWAY AND SIDEWALK CROSSING- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
- ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
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- RAINBIRD SQ-F SERIES MICRO SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.

FOR LANDSCAPE IMPROVEMENTS WITHIN RIGHT-OF-WAY AREAS SEE NEIGHBORHOOD R-6 ONSITE IMPROVEMENT PLANS

Irrigation mainline to be located 12" from back of Main Street trail.

Irrigation mainline to be located 12" from back of Main Street trail.

**VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "R-6" (NEW) SYSTEMS TO BE PRIVATELY MAINTAINED**

1.5" RECYCLED WATER METER  
 8 STATION CONTROLLER "RS"  
 STATIONS USED: 1-5 / OPEN STATIONS: 6-8  
 MODEL# SAG-RM204 / FSP-150P / RSE / LPP / GRK  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS	
METER LOCATION: STAT P.T.	MAIN ST. SOUTH SIDE 63+80
POC ELEVATION	295.00 FT.
PRESSURE ZONE	680.00 FT.
STATIC WATER PRESSURE	166.71 PSI
REGULATED PRESSURE	80.00 PSI
MIN. PRESSURE REQUIRED	65.80 PSI
MAX. DEMAND	15 GPM
AREA SERVED	5,186 SQ. FT.
MAWA	0.5052 AC.FT./YR.
LATERAL- SEE CIVIL DWGS	0.3583 AC.FT./YR.

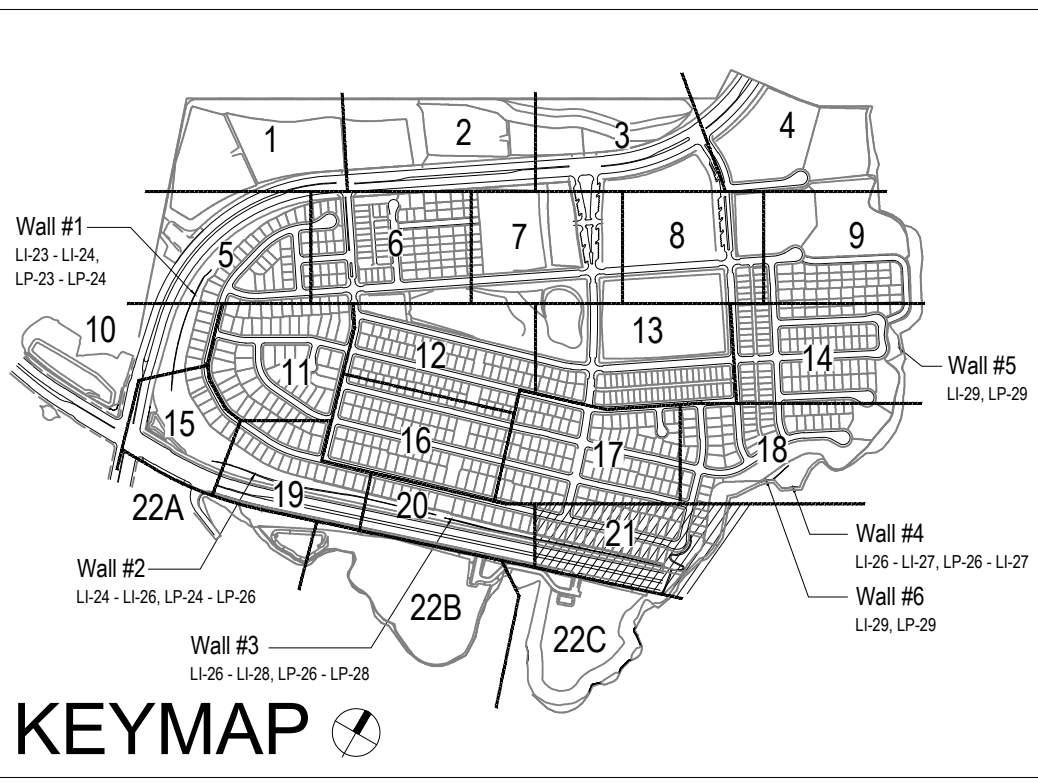
POC EQUIPMENT  
 1-1/2" WYE STRAINER  
 1-1/2" CHECK VALVE  
 1-1/2" PRESSURE REGULATOR  
 TEST STATION  
 1-1/2" MASTER CONTROL VALVE  
 1-1/2" FLOW SENSOR  
 NOTE: P.O.C. SEQUENCE PER W.A.S. STD. DWG. WR-03.

**VILLAGE 3 EROSION CONTROL SLOPE IRRIGATION POC "SH" (RE-LOCATED) SYSTEMS TO BE MAINTAINED BY CITY OF CHULA VISTA CFD**

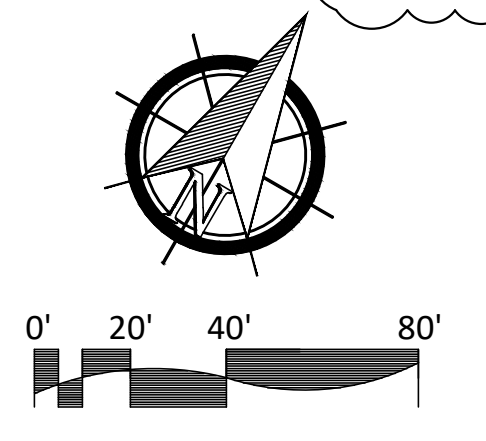
2" RECYCLED WATER METER  
 32 STATION CONTROLLER "SH"  
 STATIONS USED: 1-25 / OPEN STATIONS: 26-32  
 MODEL# SAG-RM232 / FSP-200B / 5YR / PMR-CAC / RSE / LPP / GRK  
 BY SITEONE GREEN TECH  
 RECYCLED WATER METER TO BE PURCHASED BY THE DEVELOPER  
 INSTALLED BY THE OTAY WATER DISTRICT

POC STATISTICS	
METER LOCATION: STAT P.T.	MAIN ST. SOUTH SIDE 65+80
POC ELEVATION	305.00 FT.
PRESSURE ZONE	680.00 FT.
STATIC WATER PRESSURE	162.38 PSI
REGULATED PRESSURE	60.00 PSI
MIN. PRESSURE REQUIRED	37.81 PSI
MAX. DEMAND	32 GPM
AREA SERVED	147,695 SQ. FT.
MAWA	14,3882 AC.FT./YR.
LATERAL- SEE CIVIL DWGS	9.3927 AC.FT./YR.

POC EQUIPMENT  
 2" WYE STRAINER  
 2" CHECK VALVE  
 2" PRESSURE REGULATOR  
 TEST STATION  
 2" MASTER CONTROL VALVE  
 2" FLOW SENSOR  
 NOTE: P.O.C. SEQUENCE PER W.A.S. STD. DWG. WR-03.



ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

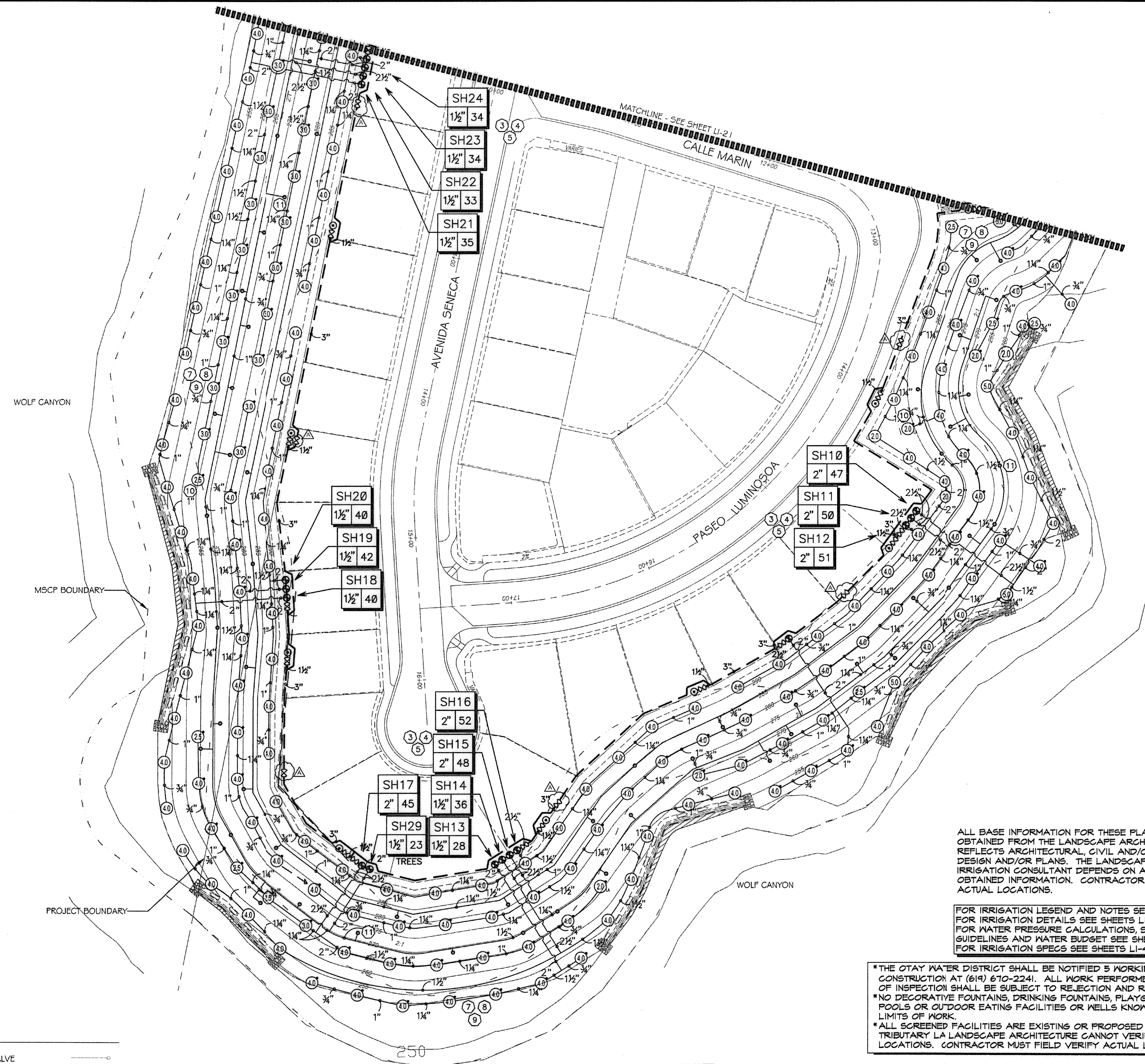


<p><b>"AS-BUILT"</b></p> <p>OTAY WATER DISTRICT          Project No. D0944-060189 LRWS No. 2019-00134          P.Z. 624, 711 R.P.Z. 680</p>		<p>SIGNED: _____ DATE: _____</p> <p>PRINT NAME: _____ R.L.A. # _____</p> <p>DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____</p>	<p><b>IT'S THE LAW! DIAL BEFORE YOU DIG!</b></p> <p>CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING          1-800-227-2600</p> <p>UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p> <p>BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600</p>	<p><b>REGISTERED LANDSCAPE ARCHITECT</b>          THOMAS A. PICARD          930723          5/23/22</p>	<p><b>Tributary LA, Inc.</b>          Landscape Architecture and Planning</p> <p>2725 Jefferson Street, Suite 14          Carlsbad, CA 92008          760.434.9300 office 760.434.9303 fax</p>	<p>DATE: 23 MAY '22</p> <p>SCALE: 1" = 40'</p> <p>JOB NO. 15024</p> <p>DRAWN BY: T.P. / T.G.M.</p> <p>W.O. NO. OR-3001G</p>
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT OFF VALVES	7/3/16	T.A.P.	BRASS DISK MARKED "SO CITY ENGR." IN 3/4" IRON PIPE	Horizontal 1" = 40'	Field	Thomas A. Picard	Thomas A. Picard	Thomas A. Picard	Plans Prepared Under Supervision Of Date: _____ R.L.A. No. 4001	LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 29
Inspector			ADD MAINLINE NOTE ON MAIN STREET	5/23/22	T.A.P.	1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT) 1359 PER R.O.S. 1481) ELEV=629.319' (NAD83)	Vertical N/A	Traffic				Approved: _____ Date: _____ Tiffany Allen Director of Development Services or designee.	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL	Sheet 29 of 88
Date Completed			ADD MATCHLINE, RELOCATE METER SH# 4 ADD R-6	5/23/22	T.A.P.								REPLACEMENT SHEET	OWD WO# D0944-060189 OWD PERMIT# PLR-16-014 LI-21

CONSTRUCTION NOTES:

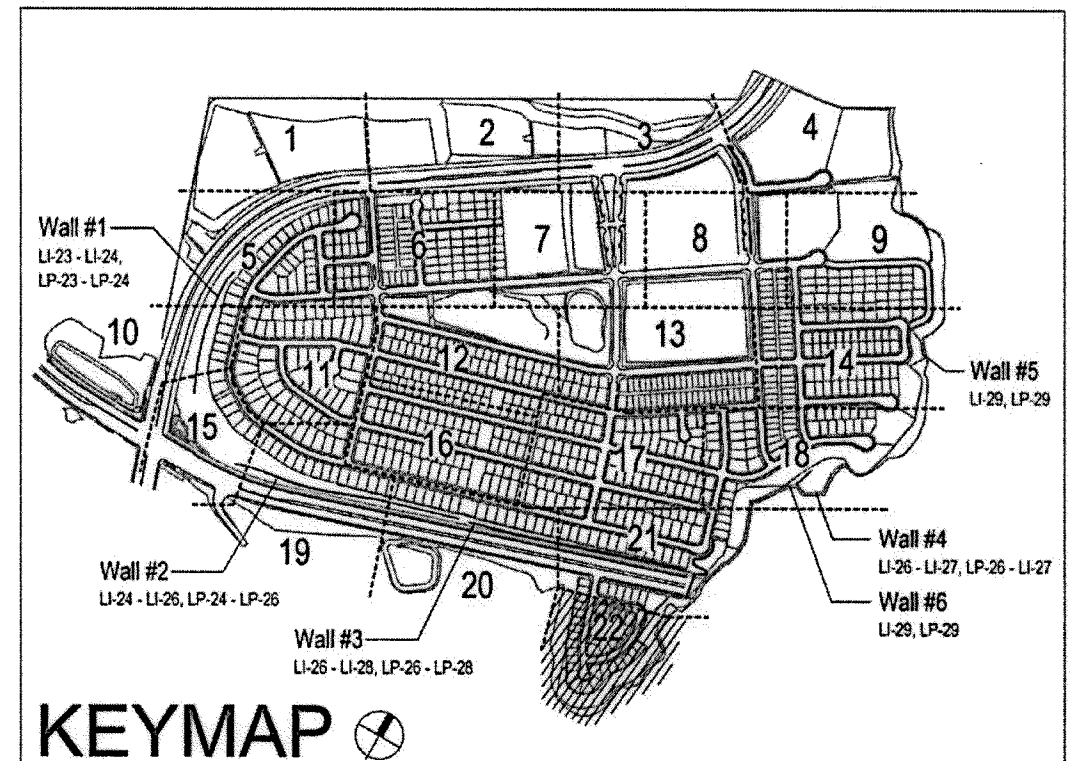
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- DRIVEWAY AND SIDEWALK CROSSINGS - MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) FULL BOX-CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
- ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
- SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
- SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
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- HUNTER PROS-00-PRSSO WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
- LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRING AND/OR SWING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 7 FEET OR GREATER.



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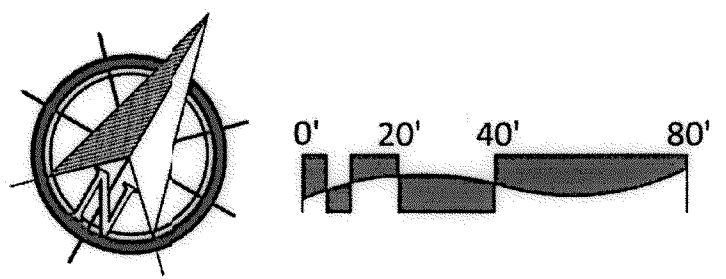
FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30. FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36. FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39. FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
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UTILITY LEGEND (PER CIVIL PLANS)

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DOMESTIC SEWERLINE (PER CIVIL PLANS)	AIR RELEASE VALVE
RECYCLED WATERLINE (PER CIVIL PLANS)	FIRE HYDRANT
STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT



OTAY WATER DISTRICT  
 PROJECT NO: D0944-060189  
 P2 624, 711 RFP 680  
 REVIEWED BY: [Signature] DATE: 4/1/18  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"  
 SIGNED: [Signature] DATE: [Blank]  
 PRINT NAME: [Blank] R.L.A. # [Blank]  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. [Blank]



Tributary LA, Inc.  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax  
 DATE: 15 FEB 18  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: [Signature] Date: 8-31-18	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES & INDUSTRIAL PAD SLOPES	7/3/18	[Signature]	DESCRIPTION: BIRDS' BEAK MARKED "SO CITY ENGR." IN 3/4" IRON ON ROCK MOUNTAIN 100' EAST OF PROMINENT TO HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. TOP 1359 PER R.O.S. (18%) ELEV=925.315' (NAD83)	Horizontal 1" = 40' Vertical N/A	Field	THOMAS A. PICARD	[Blank]	[Blank]	Kelly Broughton Director of Development Services or designee.	LANDSCAPE IRRIGATION PLAN FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050-30 Sheet 30 of 88



ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

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**System BB Mainline & Control Wire Notes**

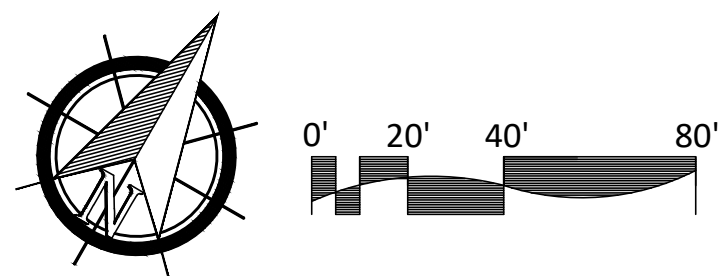
- System BB is a Master Home Owner maintained irrigation system, servicing the water quality basins
- System BB permanently services the irrigation systems servicing the water quality basins, located on the north side of Main Street
- System BB also temporarily services the irrigation systems servicing the water quality basins, located on the south side of Main Street
- Prior to the initiation of the Main Street parkway landscape improvements:
  - System BB irrigation improvements located within the Main Street south parkway shall be cut, capped & removed. This includes:
    - Cutting & capping the mainline & control wires, located on the north side of Main Street a minimum of 24" from the end of the sleeve.
    - Cutting & removing all mainline & control wires, located on the south side of Main Street & within the future CFD area
    - Cap both ends of both sleeves that cross under Main Street.
  - Water service to the south water quality basin shall be concurrently connected to a temporary construction meter, until such a time the Water District & Department of Environmental Health approves the installation of the final water meter, that will permanently service the south water quality basin & any other Master Home Owner Association improvements
- All Master Home Owner Association piping or control wire, must be 100% encased in sleeves, where located in a CFD open-space area.

**CONSTRUCTION NOTES:**

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		STREET LIGHT	



**OTAY WATER DISTRICT**  
Project No. D0944-060189 LRWS No. 2019-00134  
P.Z. 624, 711 R.P.Z. 680

**"AS-BUILT"**

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

**IT'S THE LAW! DIAL BEFORE YOU DIG!**

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

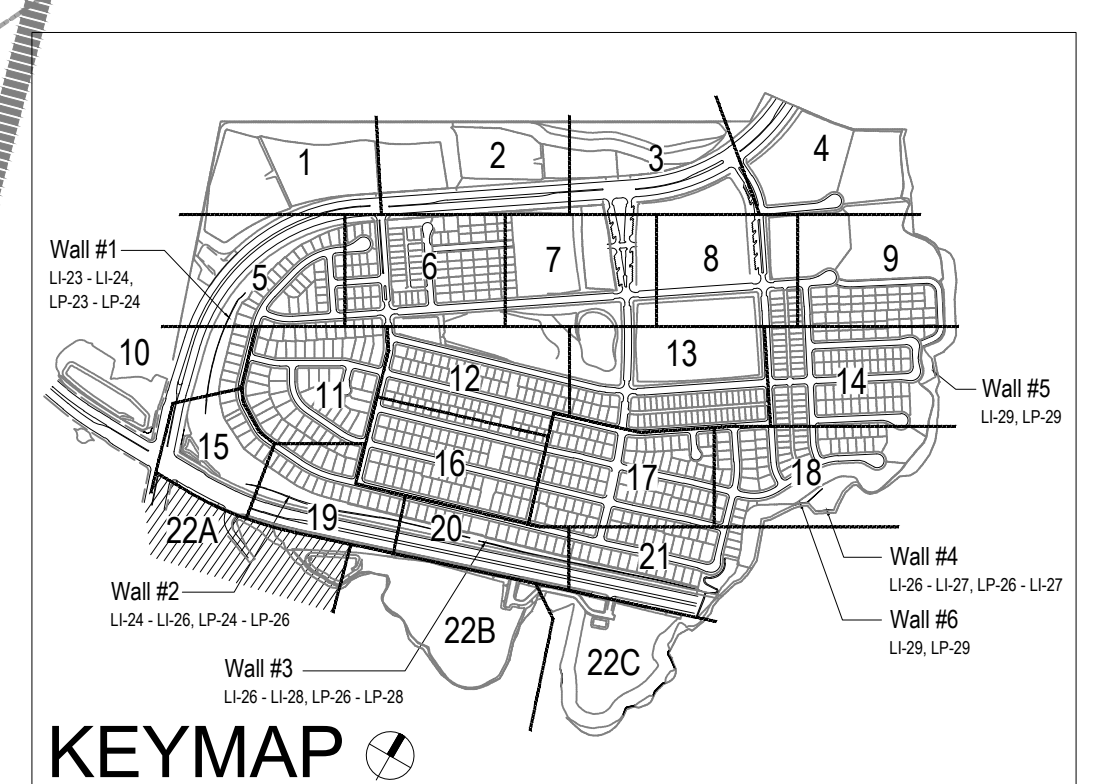
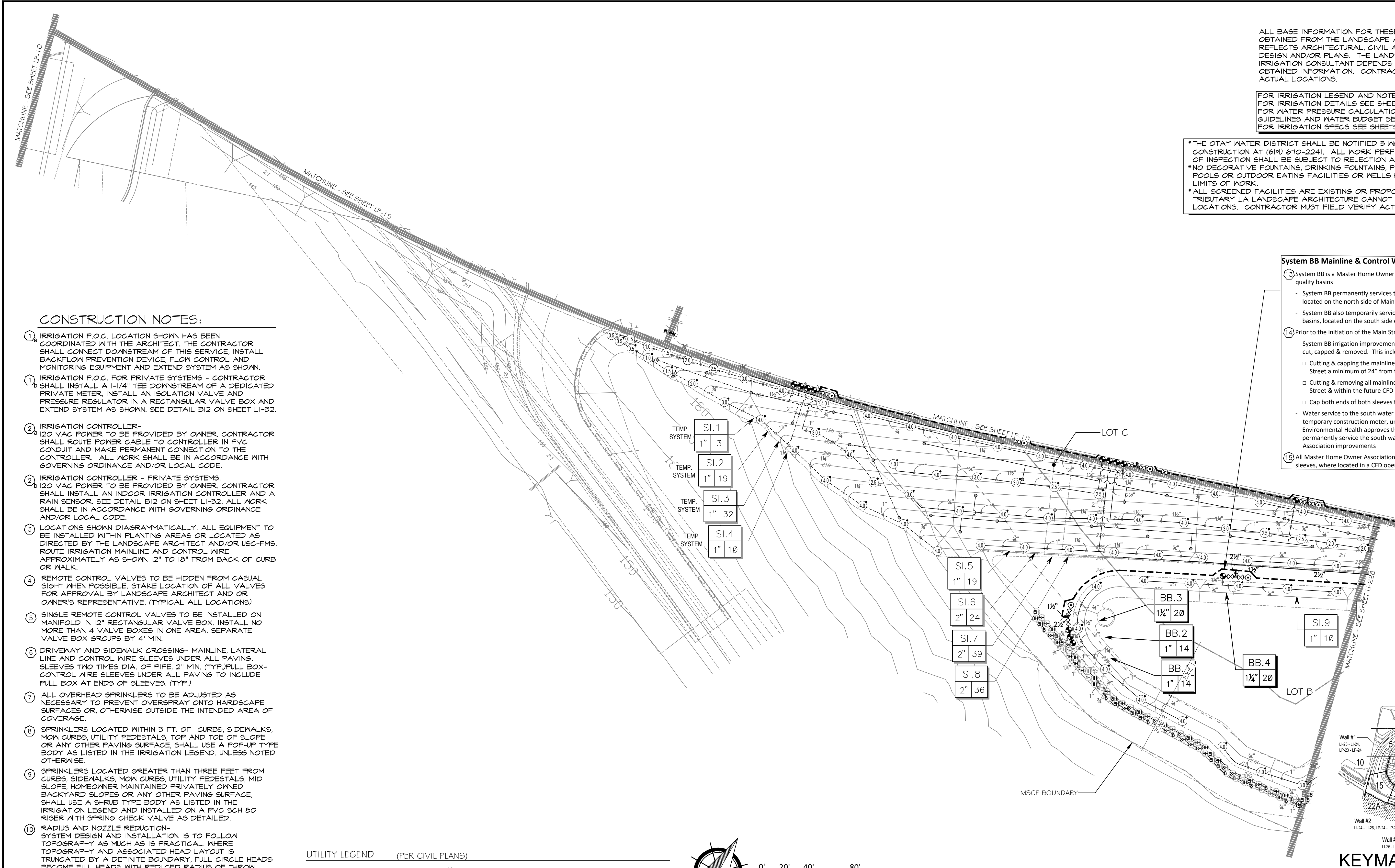
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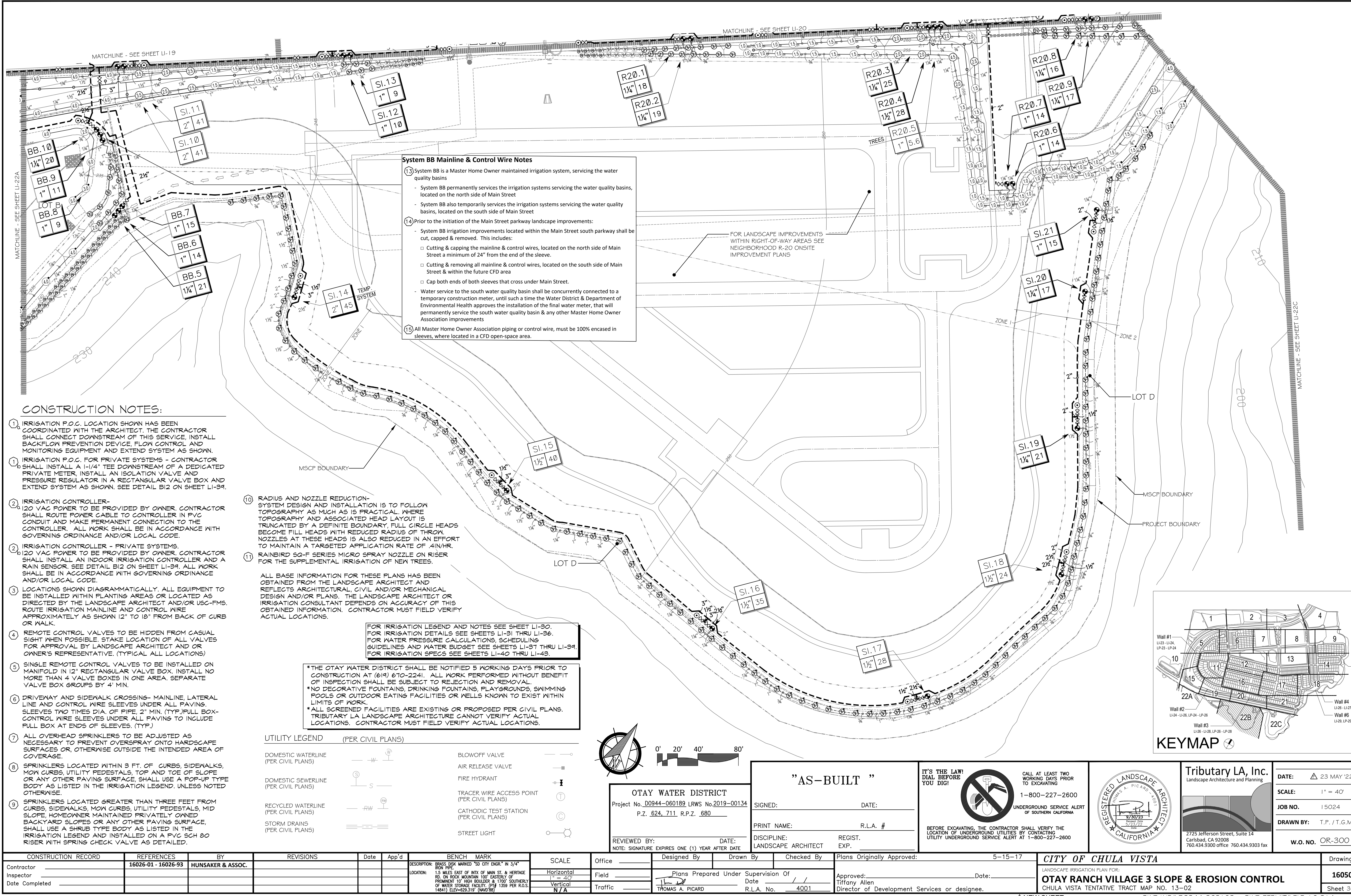
**Tributary LA, Inc.**  
Landscape Architecture and Planning

2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office 760.434.9303 fax

DATE: 23 MAY '22  
SCALE: 1" = 40'  
JOB NO.: 15024  
DRAWN BY: T.P. / T.G.M.  
W.O. NO.: OR-3001G



CONTRACTOR RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Plans Originally Approved:	5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" IRON PIPE. LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLDERS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1484) ELEV=629.319' (NAD83)	Horizontal 1" = 40' Vertical N/A	Field _____	Thomas A. Picard	Plans Prepared Under Supervision Of _____ Date: _____	Supervision Of _____ Date: _____	Checked By _____	Approved: _____ Tiffany Allen Director of Development Services or designee.	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 30A
Inspector _____															Sheet 30A of 88
Date Completed _____															



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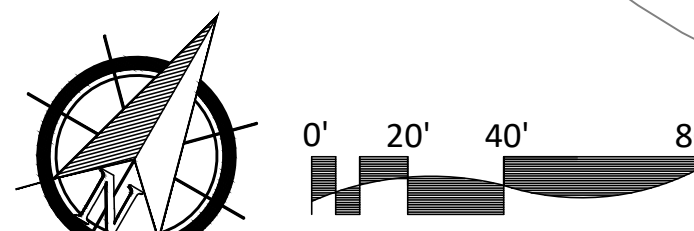
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**OTAY WATER DISTRICT**  
 Project No. D0944-060189 LRWS No. 2019-00134  
 P.Z. 624, 711 R.P.Z. 680

**"AS-BUILT"**

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

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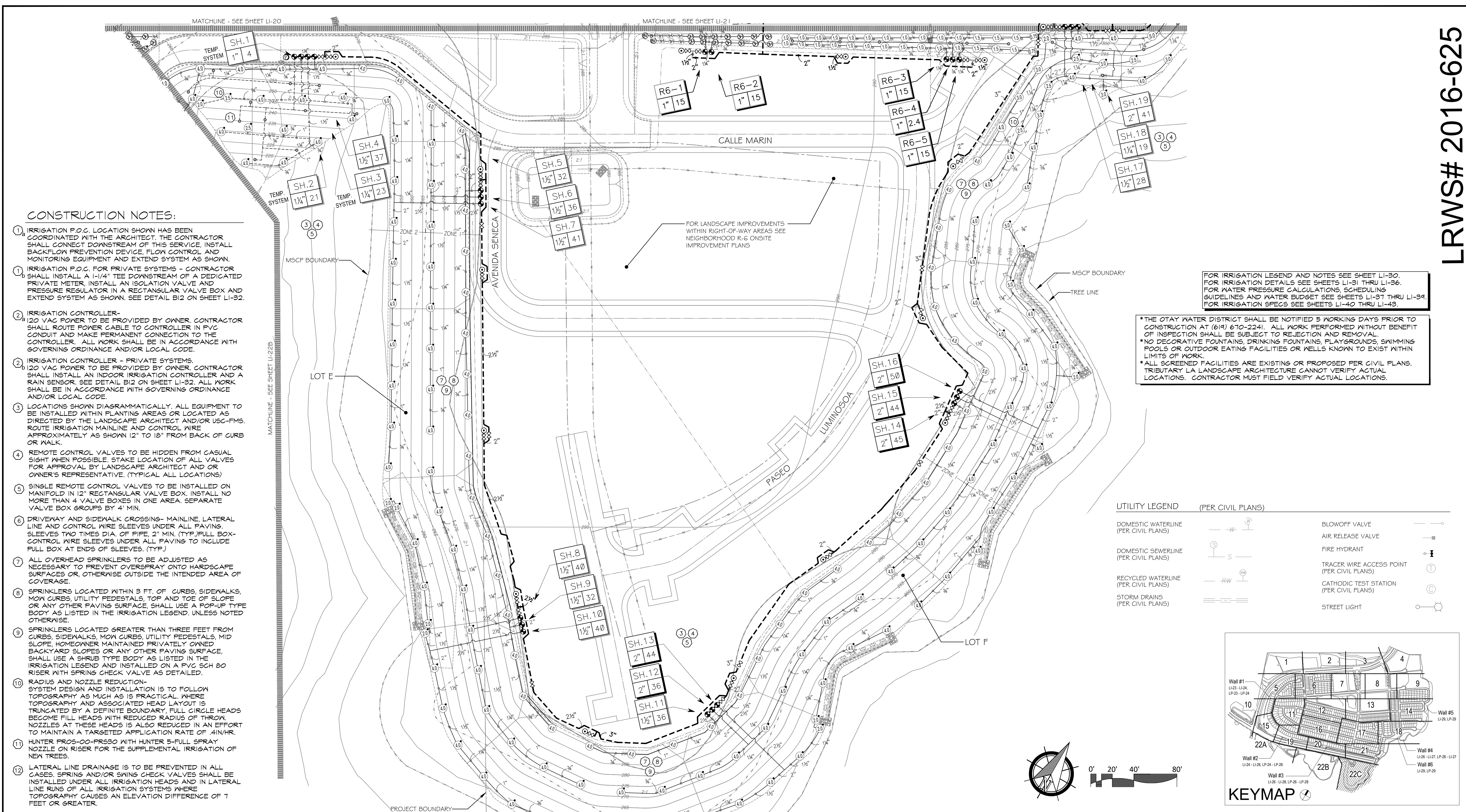
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**Tributary LA, Inc.**  
 Landscape Architecture and Planning  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office 760.434.9303 fax

DATE: 23 MAY '22  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P. / T.G.M.  
 W.O. NO. OR-3001G

<b>CONSTRUCTION RECORD</b>		<b>REFERENCES</b>	<b>BY</b>	<b>REVISIONS</b>	<b>Date</b>	<b>App'd</b>	<b>BENCH MARK</b>	<b>SCALE</b>	<b>Office</b>	<b>Drawn By</b>	<b>Checked By</b>	<b>Plans Originally Approved:</b>	<b>5-15-17</b>	<b>CITY OF CHULA VISTA</b>	<b>Drawing No.</b>
Contractor		16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" IRON PIPE 1.5 FEET EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH BOLLARDS & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1481) ELEV=629.319 (NAD83)	Horizontal 1" = 40' Vertical N/A	Field	Plans Prepared Under	Supervision Of	Approved:	Date:	LANDSCAPE IRRIGATION PLAN FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 30B
Inspector											Tiffany Allen				Sheet 30B of 88
Date Completed											THOMAS A. PICARD	4001	Director of Development Services or designee.		



**CONSTRUCTION NOTES:**

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5. SINGLE REMOTE CONTROL VALVES TO BE INSTALLED ON MANIFOLD IN 12" RECTANGULAR VALVE BOX. INSTALL NO MORE THAN 4 VALVE BOXES IN ONE AREA. SEPARATE VALVE BOX GROUPS BY 4' MIN.
6. DRIVEWAY AND SIDEWALK CROSSING- MAINLINE, LATERAL LINE AND CONTROL WIRE SLEEVES UNDER ALL PAVING. SLEEVES TWO TIMES DIA. OF PIPE, 2" MIN. (TYP.) PULL BOX- CONTROL WIRE SLEEVES UNDER ALL PAVING TO INCLUDE FULL BOX AT ENDS OF SLEEVES. (TYP.)
7. ALL OVERHEAD SPRINKLERS TO BE ADJUSTED AS NECESSARY TO PREVENT OVERSPRAY ONTO HARDSCAPE SURFACES OR, OTHERWISE OUTSIDE THE INTENDED AREA OF COVERAGE.
8. SPRINKLERS LOCATED WITHIN 3 FT. OF CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, TOP AND TOE OF SLOPE OR ANY OTHER PAVING SURFACE, SHALL USE A POP-UP TYPE BODY AS LISTED IN THE IRRIGATION LEGEND, UNLESS NOTED OTHERWISE.
9. SPRINKLERS LOCATED GREATER THAN THREE FEET FROM CURBS, SIDEWALKS, MOW CURBS, UTILITY PEDESTALS, MID SLOPE, HOMEOWNER MAINTAINED PRIVATELY OWNED BACKYARD SLOPES OR ANY OTHER PAVING SURFACE, SHALL USE A SHRUB TYPE BODY AS LISTED IN THE IRRIGATION LEGEND AND INSTALLED ON A PVC SCH 80 RISER WITH SPRING CHECK VALVE AS DETAILED.
10. RADIUS AND NOZZLE REDUCTION- SYSTEM DESIGN AND INSTALLATION IS TO FOLLOW TOPOGRAPHY AS MUCH AS IS PRACTICAL. WHERE TOPOGRAPHY AND ASSOCIATED HEAD LAYOUT IS TRUNCATED BY A DEFINITE BOUNDARY, FULL CIRCLE HEADS BECOME FILL HEADS WITH REDUCED RADIUS OF THROW. NOZZLES AT THESE HEADS IS ALSO REDUCED IN AN EFFORT TO MAINTAIN A TARGETED APPLICATION RATE OF .4IN/HR.
11. HUNTER PROS-00-PR350 WITH HUNTER 5-FULL SPRAY NOZZLE ON RISER FOR THE SUPPLEMENTAL IRRIGATION OF NEW TREES.
12. LATERAL LINE DRAINAGE IS TO BE PREVENTED IN ALL CASES. SPRING AND/OR SWING CHECK VALVES SHALL BE INSTALLED UNDER ALL IRRIGATION HEADS AND IN LATERAL LINE RUNS OF ALL IRRIGATION SYSTEMS WHERE TOPOGRAPHY CAUSES AN ELEVATION DIFFERENCE OF 1 FEET OR GREATER.

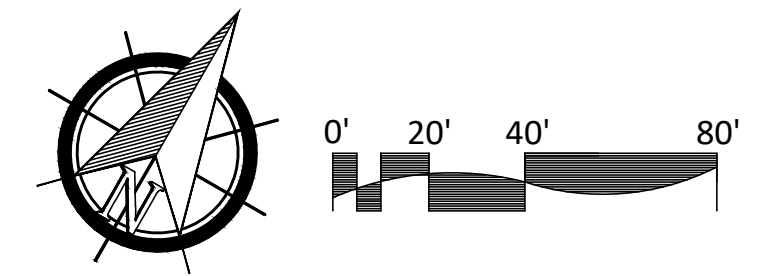
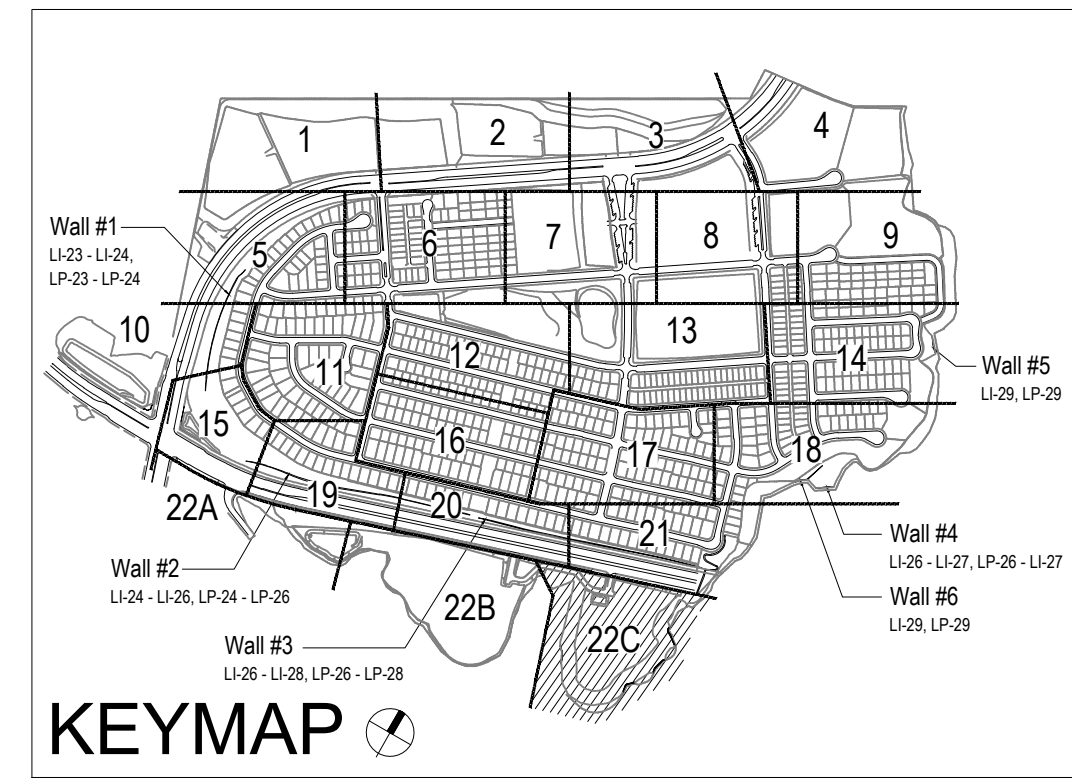
ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

FOR LANDSCAPE IMPROVEMENTS WITHIN RIGHT-OF-WAY AREAS SEE NEIGHBORHOOD R-G ONSITE IMPROVEMENT PLANS

FOR IRRIGATION LEGEND AND NOTES SEE SHEET LI-30. FOR IRRIGATION DETAILS SEE SHEETS LI-31 THRU LI-36. FOR WATER PRESSURE CALCULATIONS, SCHEDULING GUIDELINES AND WATER BUDGET SEE SHEETS LI-37 THRU LI-39. FOR IRRIGATION SPECS SEE SHEETS LI-40 THRU LI-43.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

UTILITY LEGEND (PER CIVIL PLANS)	
DOMESTIC WATERLINE (PER CIVIL PLANS)	BLOWOFF VALVE
DOMESTIC SEWERLINE (PER CIVIL PLANS)	AIR RELEASE VALVE
RECYCLED WATERLINE (PER CIVIL PLANS)	FIRE HYDRANT
STORM DRAINS (PER CIVIL PLANS)	TRACER WIRE ACCESS POINT (PER CIVIL PLANS)
	CATHODIC TEST STATION (PER CIVIL PLANS)
	STREET LIGHT



<p><b>"AS-BUILT"</b></p> <p>OTAY WATER DISTRICT                  Project No. D0944-060189 LRWS No. 2019-00134                  P.Z. 624, 711 R.P.Z. 680</p>		<p>IT'S THE LAW!                  DIAL BEFORE YOU DIG!</p> <p>CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING                  1-800-227-2600</p> <p>UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p> <p>BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600</p>	<p><b>REGISTERED LANDSCAPE ARCHITECT</b>                  THOMAS A. PICARD                  9730723                  12/21/22</p>	<p><b>Tributary LA, Inc.</b>                  Landscape Architecture and Planning</p> <p>2725 Jefferson Street, Suite 14                  Carlsbad, CA 92008                  760.434.9300 office 760.434.9303 fax</p>	<p>DATE: 23 MAY '22                  SCALE: 1" = 40'                  JOB NO. 15024                  DRAWN BY: T.P. / T.G.M.                  W.O. NO. OR-3001G</p>
<p>SIGNED: _____ DATE: _____</p> <p>PRINT NAME: _____ R.L.A. # _____</p> <p>DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____</p> <p>REVIEWED BY: _____ DATE: _____                  NOTE: SIGNATURE EXPIRES ONE (1) YEAR AFTER DATE</p>		<p>DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____</p> <p>Supervision Of: _____ DATE: _____                  R.L.A. No. 4001</p>		<p>APPROVED: _____ DATE: _____                  Director of Development Services or designee.</p>	

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT TO HIGH BUILDING & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1481) ELEV=629.319' (NAD83)
Inspector _____						SCALE: Office _____ Field _____ Traffic _____ Horizontal 1" = 40' Vertical N/A
Date Completed _____						Plans Prepared Under Supervision Of: _____ Date: _____ R.L.A. No. 4001

**CITY OF CHULA VISTA**  
 LANDSCAPE IRRIGATION PLAN FOR:  
**OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL**  
 CHULA VISTA TENTATIVE TRACT MAP NO. 13-02  
 Drawing No. 16050 - 30C  
 Sheet 30C of 88

DRIP IRRIGATION EQUIPMENT LEGEND FOR SYSTEMS ASSOCIATED WITH THE MSE WALLS.

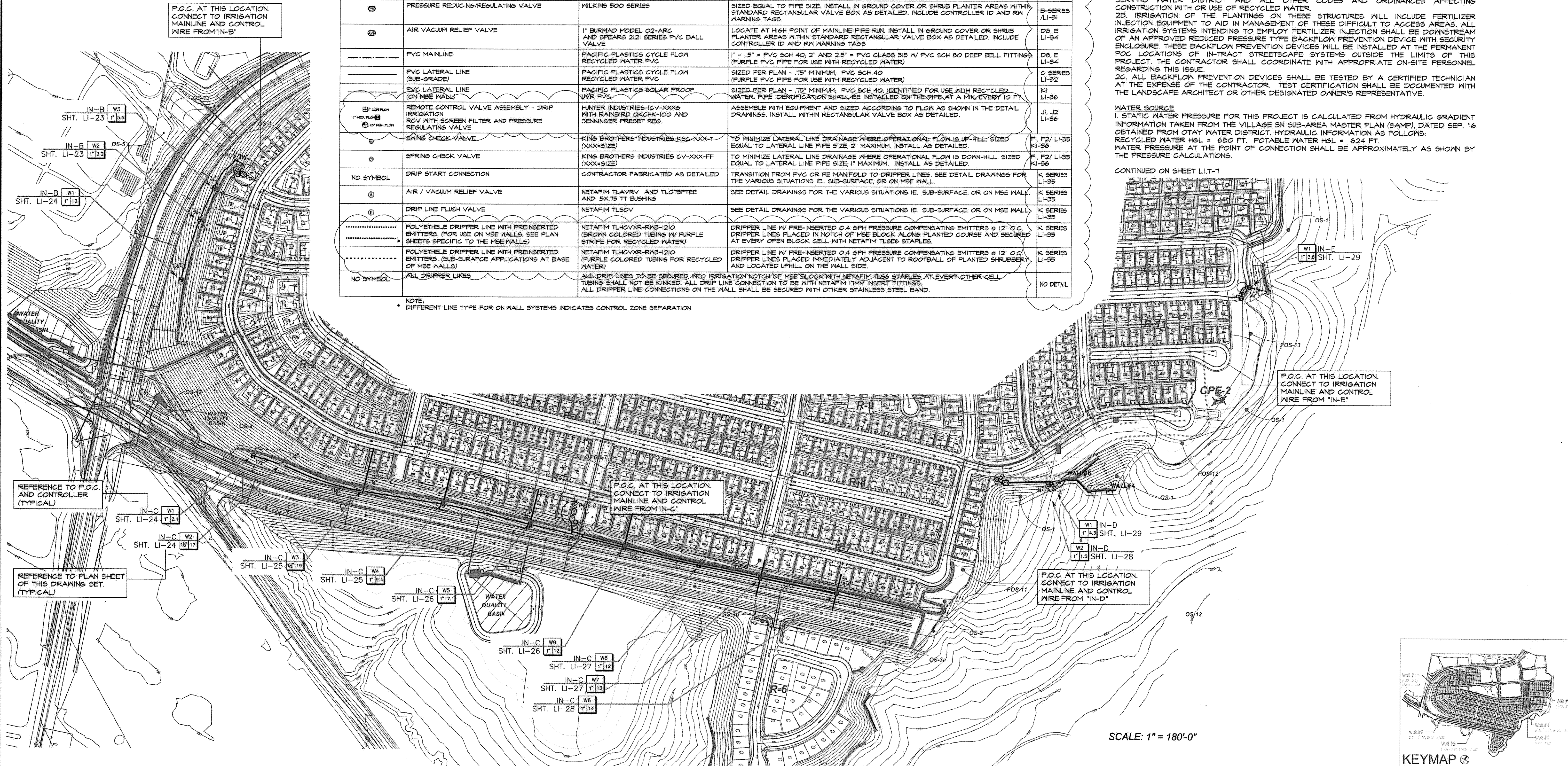
□	CONNECTION (SECONDARY P.O.C.)	CONTRACTOR FABRICATED	SOURCE WATER FOR ALL SYSTEMS PERTAINING TO IRRIGATION FOR PLANTINGS OF THE MSE WALLS OF THIS PROJECT WILL BE P.O.C.'S OF THE IN-TRACT STREETSCAPE/HOA MAINTAINED SYSTEMS. THESE P.O.C.'S ARE OUTSIDE THE LIMITS OF THIS PROJECT AND NOT A PART OF THIS WORK. COORDINATE WITH APPROPRIATE ON-SITE PERSONNEL.	NO DETAIL
⊕	FULL BOX	CONTROL WIRES FROM IN-TRACT STREETSCAPE PHASE	INSTALL IN SHRUB PLANTER AREAS WITHIN STANDARD RECTANGULAR VALVE BOX. NUMBER OF PILOT WIRES FOR STATIONS PLUS 4 SPARE AND COMMON WIRE. PROTECT WIRE ENDS WITH 3M-DRY CONNECTORS AND INCLUDE STATION LABELING FOR ALL WIRES.	D8, E LI-34
∞	GATE VALVE (MAINLINE ISOLATION)	NIBCO T-113-BHM	FOR ISOLATION OF THE MSE WALL SYSTEMS, UNLESS NOTED ON THE PLANS, SIZED EQUAL TO PIPE SIZE. INSTALL IN GROUND COVER OR SHRUB PLANTER AREAS WITHIN STANDARD RECTANGULAR VALVE BOX AS DETAILED. INCLUDE CONTROLLER ID AND R/W MARKING TAGS.	B10/ LI-32 E/ LI-34
⊖	PRESSURE REDUCING/REGULATING VALVE	WILKINS 500 SERIES	SIZED EQUAL TO PIPE SIZE. INSTALL IN GROUND COVER OR SHRUB PLANTER AREAS WITHIN STANDARD RECTANGULAR VALVE BOX AS DETAILED. INCLUDE CONTROLLER ID AND R/W MARKING TAGS.	B-SERIES LI-31
⊕	AIR VACUUM RELIEF VALVE	1" BURMAD MODEL Q2-ARC AND SPEARS 2121 SERIES PVC BALL VALVE	LOCATE AT HIGH POINT OF MAINLINE PIPE RUN. INSTALL IN GROUND COVER OR SHRUB PLANTER AREAS WITHIN STANDARD RECTANGULAR VALVE BOX AS DETAILED. INCLUDE CONTROLLER ID AND R/W MARKING TAGS.	D8, E LI-34
—	PVC MAINLINE	PACIFIC PLASTICS CYCLE FLOW RECYCLED WATER PVC	1" - 1.5" = PVC SCH 40, 2" AND 2.5" = PVC CLASS B15 W/ PVC SCH 80 DEEP BELL FITTINGS (PURPLE PVC PIPE FOR USE WITH RECYCLED WATER)	D8, E LI-34
—	PVC LATERAL LINE (SUB-SURFACE)	PACIFIC PLASTICS CYCLE FLOW RECYCLED WATER PVC	SIZED PER PLAN - .75" MINIMUM. PVC SCH 40 (PURPLE PVC PIPE FOR USE WITH RECYCLED WATER)	C-SERIES LI-32
—	PVC LATERAL LINE (ON MSE WALL)	PACIFIC PLASTICS-SOLAR PROOF W/VR PVC	SIZED PER PLAN - .75" MINIMUM. PVC SCH 40, IDENTIFIED FOR USE WITH RECYCLED WATER. PIPE IDENTIFICATION SHALL BE INSTALLED ON THE PIPE AT A MIN. EVERY 10 FT.	K1 LI-36
⊕	REMOTE CONTROL VALVE ASSEMBLY - DRIP IRRIGATION RCV WITH SCREEN FILTER AND PRESSURE REGULATING VALVE	HUNTER INDUSTRIES-ICV-XXX6 WITH RAINBIRD GKCHK-100 AND SENNINGER PRESET REG.	ASSEMBLE WITH EQUIPMENT AND SIZED ACCORDING TO FLOW AS SHOWN IN THE DETAIL DRAWINGS. INSTALL WITHIN RECTANGULAR VALVE BOX AS DETAILED.	J1, J2 LI-36
⊕	SPRING CHECK VALVE	KING BROTHERS INDUSTRIES KSC-XXX-T (XXX=SIZE)	TO MINIMIZE LATERAL LINE DRAINAGE WHERE OPERATIONAL FLOW IS UP-HILL, SIZED EQUAL TO LATERAL LINE PIPE SIZE, 2" MAXIMUM. INSTALL AS DETAILED.	F1, F2/ LI-35 K1-36
⊕	SPRING CHECK VALVE	KING BROTHERS INDUSTRIES CV-XXX-FF (XXX=SIZE)	TO MINIMIZE LATERAL LINE DRAINAGE WHERE OPERATIONAL FLOW IS DOWN-HILL, SIZED EQUAL TO LATERAL LINE PIPE SIZE, 1" MAXIMUM. INSTALL AS DETAILED.	F1, F2/ LI-35 K1-36
NO SYMBOL	DRIP START CONNECTION	CONTRACTOR FABRICATED AS DETAILED	TRANSITION FROM PVC OR PE MANIFOLD TO DRIPPER LINES. SEE DETAIL DRAWINGS FOR THE VARIOUS SITUATIONS IE. SUB-SURFACE, OR ON MSE WALL.	K-SERIES LI-35
⊕	AIR / VACUUM RELIEF VALVE	NETAFIM TLAVRY AND TLOTFEE AND 5X.75 TT BUSHING	SEE DETAIL DRAWINGS FOR THE VARIOUS SITUATIONS IE. SUB-SURFACE, OR ON MSE WALL.	K-SERIES LI-35
⊕	DRIP LINE FLUSH VALVE	NETAFIM TL50V	SEE DETAIL DRAWINGS FOR THE VARIOUS SITUATIONS IE. SUB-SURFACE, OR ON MSE WALL.	K-SERIES LI-35
.....	POLYETHYLENE DRIPPER LINE WITH PREINSERTED EMITTERS. (FOR USE ON MSE WALLS. SEE PLAN SHEETS SPECIFIC TO THE MSE WALLS)	NETAFIM TLHCVXR-RWS-1210 (BROWN COLORED TUBING W/ PURPLE STRIPE FOR RECYCLED WATER)	DRIPPER LINE W/ PRE-INSERTED 0.4 GPH PRESSURE COMPENSATING EMITTERS @ 12" O.C. DRIPPER LINES PLACED IN NOTCH OF MSE BLOCK ALONG PLANTED COURSE AND SECURED AT EVERY OPEN BLOCK CELL WITH NETAFIM TL566 STAPLES.	K-SERIES LI-35
.....	POLYETHYLENE DRIPPER LINE WITH PREINSERTED EMITTERS. (SUB-SURFACE APPLICATIONS AT BASE OF MSE WALLS)	NETAFIM TLHCVXR-RWS-1210 (PURPLE COLORED TUBING FOR RECYCLED WATER)	DRIPPER LINE W/ PRE-INSERTED 0.4 GPH PRESSURE COMPENSATING EMITTERS @ 12" O.C. DRIPPER LINES PLACED IMMEDIATELY ADJACENT TO ROOTBALL OF PLANTED SHRUBBERY AND LOCATED UPHILL ON THE WALL SIDE.	K-SERIES LI-35
NO SYMBOL	ALL DRIPPER LINES	ALL DRIPPER LINES TO BE SECURED INTO IRRIGATION NOTCH OF MSE BLOCK WITH NETAFIM TL566 STAPLES AT EVERY OTHER CELL. TUBING SHALL NOT BE SUNKED. ALL DRIP LINE CONNECTIONS TO BE WITH NETAFIM T1M1 INSERT FITTINGS. ALL DRIPPER LINE CONNECTIONS ON THE WALL SHALL BE SECURED WITH OTHER STAINLESS STEEL BAND.		NO DETAIL

NOTE:  
DIFFERENT LINE TYPE FOR ON WALL SYSTEMS INDICATES CONTROL ZONE SEPARATION.

THE PROJECT - MECHANICALLY STABILIZED EARTH (MSE) WALLS  
 1. IRRIGATION SYSTEMS DESCRIBED BY THESE PLANS ARE PRIMARILY FOR THE SUPPORT OF EROSION CONTROL PLANTINGS ASSOCIATED WITH THE MECHANICALLY STABILIZED EARTH (MSE) WALLS.  
 2A. ALL IRRIGATION SYSTEMS AND WORK ON THESE HOME OWNER ASSOCIATION MAINTAINED STRUCTURES SHALL BE CONNECTED TO A P.O.C. INTENDED FOR USE OF RECYCLED WATER. USE OF RECYCLED WATER REQUIRES THAT ALL PIPE, SLEEVES, SPRINKLER HEADS, REMOTE CONTROL VALVES, QUICK COUPLER VALVES, AND VALVE BOXES BE IDENTIFIED AS CONTAINING RECYCLED WATER AND ACCORDING TO RULES AND REGULATIONS OF THE SERVING WATER DISTRICT AND ALL OTHER CODES AND ORDINANCES AFFECTING CONSTRUCTION WITH OR USE OF RECYCLED WATER.  
 2B. IRRIGATION OF THE PLANTINGS ON THESE STRUCTURES WILL INCLUDE FERTILIZER INJECTION EQUIPMENT TO AID IN MANAGEMENT OF THESE DIFFICULT TO ACCESS AREAS. ALL IRRIGATION SYSTEMS INTENDING TO EMPLOY FERTILIZER INJECTION SHALL BE DOWNSTREAM OF AN APPROVED REDUCED PRESSURE TYPE BACKFLOW PREVENTION DEVICE WITH SECURITY ENCLOSURE. THESE BACKFLOW PREVENTION DEVICES WILL BE INSTALLED AT THE PERMANENT P.O.C. LOCATIONS OF IN-TRACT STREETSCAPE SYSTEMS OUTSIDE THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE ON-SITE PERSONNEL REGARDING THIS ISSUE.  
 2C. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TECHNICIAN AT THE EXPENSE OF THE CONTRACTOR. TEST CERTIFICATION SHALL BE DOCUMENTED WITH THE LANDSCAPE ARCHITECT OR OTHER DESIGNATED OWNER'S REPRESENTATIVE.

WATER SOURCE  
 1. STATIC WATER PRESSURE FOR THIS PROJECT IS CALCULATED FROM HYDRAULIC GRADIENT INFORMATION TAKEN FROM THE VILLAGE 3 SUB-AREA MASTER PLAN (SAMP), DATED SEP. '16 OBTAINED FROM OTAY WATER DISTRICT. HYDRAULIC INFORMATION AS FOLLOWS:  
 RECYCLED WATER HGL = 680 FT. POTABLE WATER HGL = 624 FT.  
 WATER PRESSURE AT THE POINT OF CONNECTION SHALL BE APPROXIMATELY AS SHOWN BY THE PRESSURE CALCULATIONS.

CONTINUED ON SHEET LI-T-7



Notes:  
 1) See sheets LI-23 - LP-29 for wall specific irrigation plans.  
 2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.  
 3) All MSE walls shown on the plan will be approved by separate permit

OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 PZ 624, 711 R/P2 688  
 REVIEWED BY: [Signature] DATE: [Date]  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"  
 SIGNED: [Signature] DATE: [Date]  
 PRINT NAME: [Name] R.L.A. # [Number]  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP.

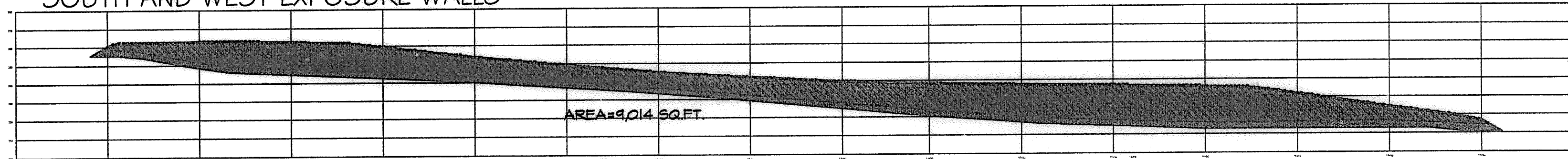


Tributary LA, Inc.  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

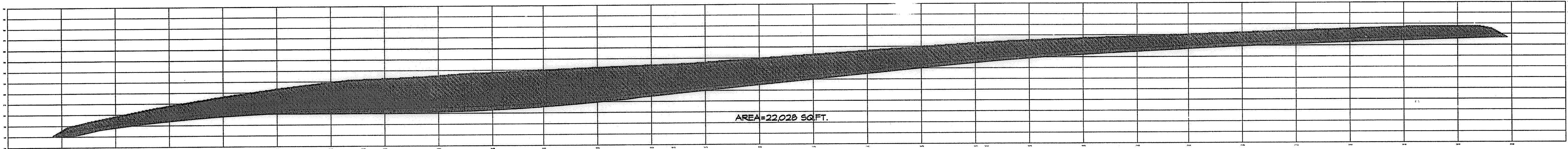
DATE: 15 FEB '18  
 SCALE: 1" = 180'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: [Signature] Date: 8-21-18	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES & INDUSTRIAL PAD SLOPES	7/2/18	[Signature]	BRASS DISK MARKED "SD CITY ENGR" IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF INTER. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 180' EASTERLY OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (P# 1359 PER R.O.S. 14611, E.L.S. # 626-317, (NAD 83))	Horizontal	Field	Plans Prepared Under Supervision of	THOMAS A. PICARD	[Signature]	Kelly Braughton Director of Development Services or designee.	MSE WALL PLANTING PLANS FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 31
Inspector							Vertical	Traffic	THOMAS A. PICARD	[Signature]	[Signature]	[Signature]	REPLACEMENT SHEET	Sheet 31 of 88

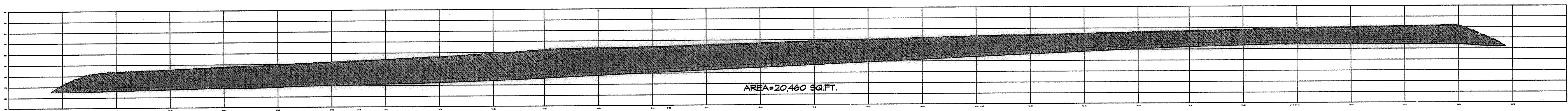
**SOUTH AND WEST EXPOSURE WALLS**



**A WALL #1 PROFILE WEST EXPOSURE**  
STA. 10+00 to 17+51.75 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)



**B WALL #2 PROFILE SOUTH EXPOSURE**  
STA. 10+00 to 23+37.09 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)



**C WALL #3 PROFILE SOUTH EXPOSURE**  
STA. 10+00 to 23+50 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)

**THE PROJECT - MECHANICALLY STABILIZED EARTH (MSE) WALLS**  
CONTINUED FROM SHEET LI-T-6

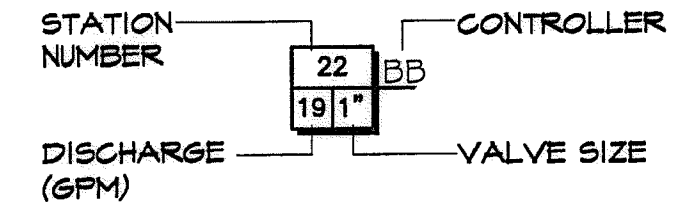
**WATER SOURCE**  
CONTRACTOR SHALL INSTALL AND MONITOR A PRESSURE READING RECORDER AT AN EXISTING RECYCLED IRRIGATION METER, NEARBY THE PROJECT LOCATION, AS DIRECTED BY THE CITY'S LANDSCAPE INSPECTOR. THE RECORDER SHALL MEASURE A CONSTANT PRESSURE READING FOR A PERIOD FOR NO LESS THAN 72 CONTINUOUS HRS. IF THE READINGS ARE FOUND TO CONSISTENTLY CONTAIN SIGNIFICANTLY LOWER PRESSURE THEN THE DESIGN PRESSURE STATED ON THE PLANS (AS DETERMINED BY THE CITY'S LANDSCAPE INSPECTOR), AN IRRIGATION BOOSTER PUMP SHALL BE INSTALLED AT NO COST TO THE CITY. BOOSTER PUMP SHALL BE INCLUDED AS AN ADDITIVE ALTERNATE BID ITEM. IRRIGATION BOOSTER PUMP ASSEMBLY TO BE AS ASSEMBLED BY AND PURCHASED FROM BARRKETT ENGINEERED PUMPS. CONTACT GREEN PRODUCT SALES (444) 595-7311. FINAL SPECIFICATION OF PUMP TO BE DETERMINED SUBSEQUENT TO PRESSURE RECORDING AND JUDGEMENT OF THE CITY'S LANDSCAPE INSPECTOR.

3. PURCHASE OF EQUIPMENT AND ANY INSTALLATIONS WHEN EXISTING STATIC PRESSURE IS BELOW THAT STATED ABOVE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

4. THE IRRIGATION POINT OF CONNECTION SHALL BE DOWNSTREAM OF THE CONTRACTED IRRIGATION METER PROVIDED BY OTHERS (SEE CIVIL DRAWINGS). THE CONTRACTOR SHALL CONNECT DOWNSTREAM OF THE METER AND EXTEND COPPER OR BRASS PIPE AND FITTINGS TO THE SPECIFIED STRAINER, CHECK VALVE AND PRESSURE CONTROL EQUIPMENT. PVC PIPE AND FITTINGS SHALL BE INSTALLED DOWNSTREAM OF THE P.O.C. ASSEMBLY.

FOR OTHER IRRIGATION NOTES SEE SHEETS LI-30 AND LI-31.

**VALVE CALL-OUT SYMBOL FOR C.F.D. AND/OR HOA AREAS**



- \*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
- \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.
- \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

**SOUTH AND WEST EXPOSURE WALLS**

**WALL #1**  
WATER SOURCE - POC "N-B" WEST SIDE OF SANTA MAYA AT RD.ST. 1640 SEE PLANS FOR "R1" AND "R2" IN-TRACT PARKWAYS. IRRIGATION OF PLANTED AREA AT THIS WALL WILL BE ADDED TO THE ABOVE REFERENCED WATER SOURCE.  
FACTORS FOR WATER REQUIREMENT CALCULATIONS:  
1,014 SQ.FT. IRRIGATED AREA. ENS. GRADING PLANS  
51.2' ETO IRRIGATION EFFICIENCY CMB MPELO- DRIP IRRIGATION  
0.81

0.291 Lc- LANDSCAPE COEFFICIENT. MICOLC- IV  
Ks- SPECIES FACTOR=0.8 MICOLC- LOW CONSUMPTIVE  
Kms- MICROCLIMATE FACTOR=0.85 MICOLC- SOUTH EXPOSURE  
Kd- DENSITY FACTOR=0.75 MICOLC- SPARGE PLANTING

MANA= 51.2 X 1.0 X 9.04 X 0.82 = 349.87 GPY  
EPA= (51.2 X 291) X 1.014 X 0.82 = 19342 GPY 31.8% MANA

**WALL #2**  
WATER SOURCE - POC "N-C" WEST SIDE OF SANTA MAYA AT RD.ST. 1640 SEE PLANS FOR "R1", "R2" AND "R3" IN-TRACT PARKWAYS. IRRIGATION OF PLANTED AREA AT THIS WALL WILL BE ADDED TO THE ABOVE REFERENCED WATER SOURCE.  
FACTORS FOR WATER REQUIREMENT CALCULATIONS:  
22,028 SQ.FT. IRRIGATED AREA. ENS. GRADING PLANS  
51.2' ETO IRRIGATION EFFICIENCY CMB MPELO- DRIP IRRIGATION  
0.81

0.291 Lc- LANDSCAPE COEFFICIENT. MICOLC- IV  
Ks- SPECIES FACTOR=0.8 MICOLC- LOW CONSUMPTIVE  
Kms- MICROCLIMATE FACTOR=0.85 MICOLC- SOUTH EXPOSURE  
Kd- DENSITY FACTOR=0.75 MICOLC- SPARGE PLANTING

MANA= 51.2 X 1.0 X 22,028 X 0.82 = 606,886 GPY  
EPA= (51.2 X 291) X 22,028 X 0.82 = 149,844 GPY 31.8% MANA

**WALL #3**  
WATER SOURCE - POC "N-C" WEST SIDE OF SANTA MAYA AT RD.ST. 1640 SEE PLANS FOR "R1", "R2" AND "R3" IN-TRACT PARKWAYS. IRRIGATION OF PLANTED AREA AT THIS WALL WILL BE ADDED TO THE ABOVE REFERENCED WATER SOURCE.  
FACTORS FOR WATER REQUIREMENT CALCULATIONS:  
20,460 SQ.FT. IRRIGATED AREA. ENS. GRADING PLANS  
51.2' ETO IRRIGATION EFFICIENCY CMB MPELO- DRIP IRRIGATION  
0.81

0.291 Lc- LANDSCAPE COEFFICIENT. MICOLC- IV  
Ks- SPECIES FACTOR=0.8 MICOLC- LOW CONSUMPTIVE  
Kms- MICROCLIMATE FACTOR=0.85 MICOLC- SOUTH EXPOSURE  
Kd- DENSITY FACTOR=0.75 MICOLC- SPARGE PLANTING

MANA= 51.2 X 1.0 X 20,460 X 0.82 = 565,222 GPY  
EPA= (51.2 X 291) X 20,460 X 0.82 = 180,091 GPY 31.8% MANA

**EAST EXPOSURE WALLS**

**WALL #4**  
WATER SOURCE - POC "N-D" SOUTH SIDE OF CALLE DESEO AT RD.ST. 5240 SEE PLANS FOR "R1" THROUGH "R4" IN-TRACT PARKWAYS. IRRIGATION OF PLANTED AREA AT THIS WALL WILL BE ADDED TO THE ABOVE REFERENCED WATER SOURCE.  
FACTORS FOR WATER REQUIREMENT CALCULATIONS:  
544 SQ.FT. IRRIGATED AREA. ENS. GRADING PLANS  
51.2' ETO IRRIGATION EFFICIENCY CMB MPELO- DRIP IRRIGATION  
0.81

0.191 Lc- LANDSCAPE COEFFICIENT. MICOLC- IV  
Ks- SPECIES FACTOR=0.8 MICOLC- LOW CONSUMPTIVE  
Kms- MICROCLIMATE FACTOR=0.85 MICOLC- EAST EXPOSURE  
Kd- DENSITY FACTOR=0.75 MICOLC- SPARGE PLANTING

MANA= 51.2 X 1.0 X 544 X 0.82 = 16,882 GPY  
EPA= (51.2 X 191) X 544 X 0.82 = 9,556 GPY 29.6% MANA

**WALL #5**  
WATER SOURCE - POC "N-E" NORTH SIDE OF CALLE DESEO AT RD.ST. 5240 SEE PLANS FOR "R1" THROUGH "R3" IN-TRACT PARKWAYS. IRRIGATION OF PLANTED AREA AT THIS WALL WILL BE ADDED TO THE ABOVE REFERENCED WATER SOURCE.  
FACTORS FOR WATER REQUIREMENT CALCULATIONS:  
1,858 SQ.FT. IRRIGATED AREA. ENS. GRADING PLANS  
51.2' ETO IRRIGATION EFFICIENCY CMB MPELO- DRIP IRRIGATION  
0.81

0.191 Lc- LANDSCAPE COEFFICIENT. MICOLC- IV  
Ks- SPECIES FACTOR=0.8 MICOLC- LOW CONSUMPTIVE  
Kms- MICROCLIMATE FACTOR=0.85 MICOLC- EAST EXPOSURE  
Kd- DENSITY FACTOR=0.75 MICOLC- SPARGE PLANTING

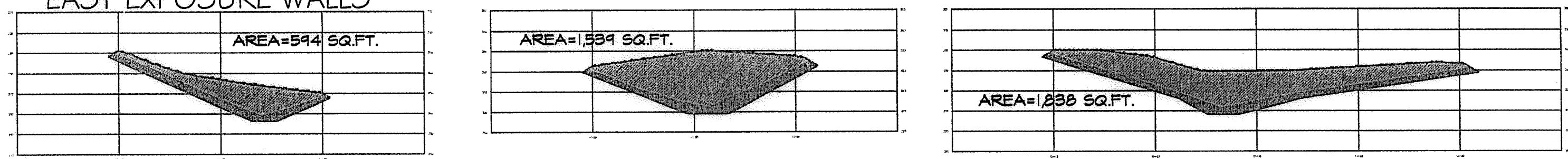
MANA= 51.2 X 1.0 X 1,858 X 0.82 = 42,866 GPY  
EPA= (51.2 X 191) X 1,858 X 0.82 = 4,940 GPY 29.6% MANA

**WALL #6**  
WATER SOURCE - POC "N-D" SOUTH SIDE OF CALLE DESEO AT RD.ST. 5240 SEE PLANS FOR "R1" THROUGH "R4" IN-TRACT PARKWAYS. IRRIGATION OF PLANTED AREA AT THIS WALL WILL BE ADDED TO THE ABOVE REFERENCED WATER SOURCE.  
FACTORS FOR WATER REQUIREMENT CALCULATIONS:  
1,858 SQ.FT. IRRIGATED AREA. ENS. GRADING PLANS  
51.2' ETO IRRIGATION EFFICIENCY CMB MPELO- DRIP IRRIGATION  
0.81

0.191 Lc- LANDSCAPE COEFFICIENT. MICOLC- IV  
Ks- SPECIES FACTOR=0.8 MICOLC- LOW CONSUMPTIVE  
Kms- MICROCLIMATE FACTOR=0.85 MICOLC- EAST EXPOSURE  
Kd- DENSITY FACTOR=0.75 MICOLC- SPARGE PLANTING

MANA= 51.2 X 1.0 X 1,858 X 0.82 = 42,866 GPY  
EPA= (51.2 X 191) X 1,858 X 0.82 = 4,940 GPY 29.6% MANA

**EAST EXPOSURE WALLS**



**D WALL #4 PROFILE** STA. 10+00 to 10+98.72  
**E WALL #5 PROFILE** STA. 10+00 to 11+04.86  
**F WALL #6 PROFILE** STA. 10+00 to 12+02.67

**WATER USE CALCULATIONS FOR OTAY RANCH V3 MSE WALLS**  
DESCRIPTION FACTORS USED IN THE WATER REQUIREMENT CALCULATIONS:

**MICROCLIMATE FACTOR**  
SUN: EAST EXPOSURE Kmc=1.15 - WALL PLANTINGS FACING THE SOUTH AND WEST.  
PART SUN: EAST EXPOSURE Kmc=0.85 - WALL PLANTINGS FACING EAST

**SPECIES FACTOR**  
HIGH OF THE LOW RANGE WATER CONSUMPTIVE PLANTINGS; Ks=0.5

**DENSITY FACTOR**  
MEDIUM SPARGE PLANTING; Kd=0.75 75% OF WALL FACE COVERED.

**IRRIGATION EFFICIENCY:**  
DRIP IRRIGATION; IEA=0.81. (MPELO)

**LEGEND**

- SEE SHEETS T-2/T-3 PROPOSED RECYCLED WATER METER
- SEE SHEETS T-2/T-3 PROPOSED IRRIGATION RECYCLED WATER MAINLINE
- SEE SHEETS T-2/T-3 POTABLE WATER LINES (PER CIVIL PLANS)
- SEE SHEETS T-2/T-3 RECYCLED WATER LINE (PER CIVIL PLANS)
- PROPOSED RECYCLED WATER SIGN LOCATION
- AREA PROPOSED FOR RECYCLED WATER USE S/E EXPOSURE
- AREA PROPOSED FOR RECYCLED WATER USE EAST EXPOSURE
- PROPOSED METER AND EQUIPMENT LOCATION

**FINAL EQUIPMENT LOCATION**

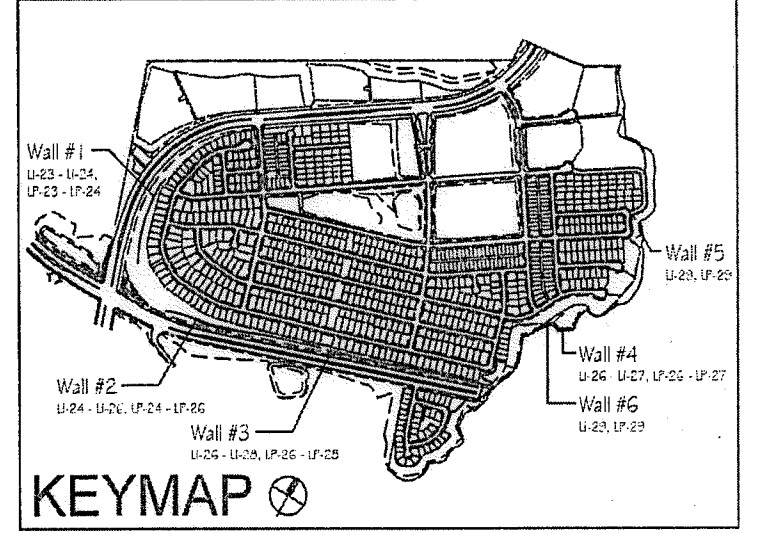
1. MAJOR IRRIGATION EQUIPMENT IN PLANTER BEDS SHALL BE HIDDEN FROM CASUAL VIEW.  
2. THE FINAL LOCATION OF ALL VALVES SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND THE CITY OF CHULA VISTA LANDSCAPE INSPECTOR IN THE FIELD PRIOR TO INSTALLATION. SEE PLANS FOR PARTICULAR INFORMATION ON VALVE PLACEMENT.  
3. THE CONTRACTOR SHALL STAKE LOCATIONS FOR REVIEW AND ADJUSTMENT BY THE LANDSCAPE ARCHITECT AND THE CITY OF CHULA VISTA LANDSCAPE INSPECTOR PRIOR TO INSTALLATION. NECESSARY RELOCATION OF IRRIGATION EQUIPMENT AS A RESULT OF THE CONTRACTORS FAILURE TO STAKE LOCATION AND RECEIVE APPROVAL SHALL BE AT THE CONTRACTORS EXPENSE.

**MEANS AND METHODS**

IRRESPECTIVE OF ANY OTHER TERM IN THESE CONSTRUCTION DOCUMENTS, THE IRRIGATION CONSULTANT SHALL NOT CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SCHEDULES, SEQUENCES OR PROCEDURES, OR FOR CONSTRUCTION SAFETY OR FOR OTHER RELATED PROGRAMS; OR FOR ANOTHER PARTIES' ERRORS OR OMISSIONS OR FOR ANOTHER PARTIES' FAILURE TO COMPLETE THEIR WORK OR SERVICES IN ACCORDANCE WITH IRRIGATION CONSULTANTS DOCUMENTS.

**PROJECT MAINTENANCE**

A LACK OF MAINTENANCE OR IMPROPER MAINTENANCE IN AREAS SUCH AS OR ASSOCIATED WITH BUT NOT LIMITED TO, LANDSCAPE PLANTING, HARDSCAPE, LIGHTING, GRADING, DRAINAGE, WATER FEATURES, FURNISHINGS, AND IRRIGATION OR WATER MANAGEMENT WHETHER ASSOCIATED WITH THE PROJECT OR NOT MAY RESULT IN DAMAGE TO PROPERTY OR PERSONS. THE CONTRACTOR ACKNOWLEDGES AND AGREES THAT PROPER PROJECT MAINTENANCE IS REQUIRED AFTER THE PROJECT IS COMPLETE AND TO INFORM THE OWNER OF HIS/HER SOLE RESPONSIBILITY FOR THE RESULTS OF ANY LACK OF MAINTENANCE OR IMPROPER MAINTENANCE.



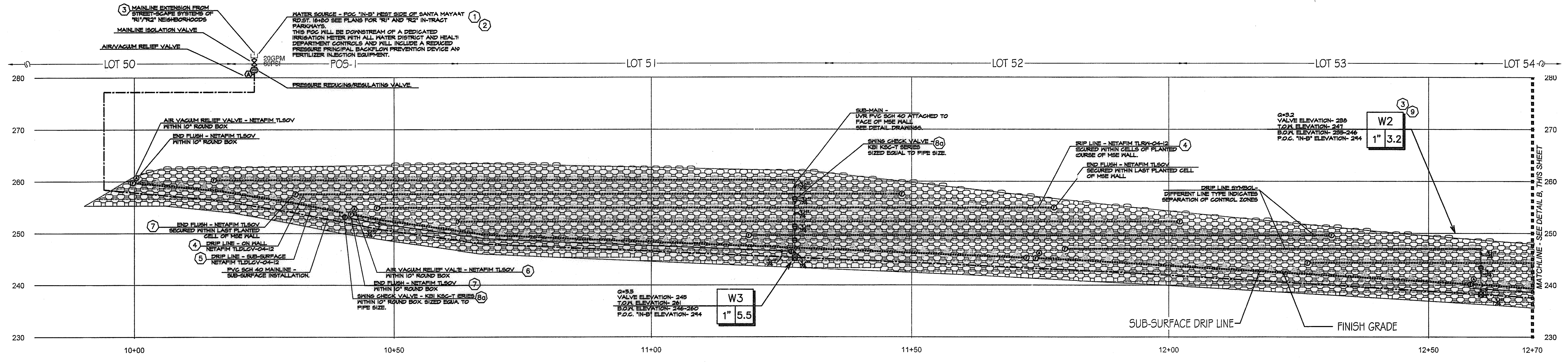
Notes:  
1) See sheets LP-22 - LP-24 for wall specific plant palettes.  
2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.  
3) All MSE walls shown on the plan will be approved by separate permit

**R.W. IDENTIFICATION BY COLOR CODING:**  
SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

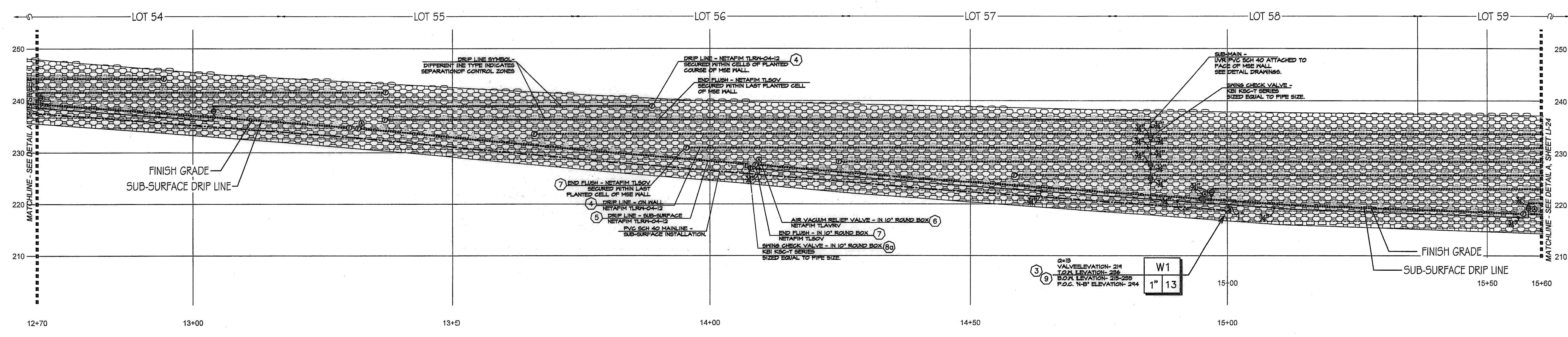
<b>OTAY WATER DISTRICT</b> PROJECT NO. D0944-060189 PZ 624, 711 RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: 5/10/17 SIGNATURE EXPIRES AFTER 1 YEAR		IT'S THE LAW! DIAL BEFORE YOU DIG! CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600	"AS-BUILT" SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____	REGISTERED LANDSCAPE ARCHITECT THOMAS A. PICARD 1977 CALIFORNIA	<b>Tributary LA, Inc.</b> 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 10 APR '17 SCALE: 1" = 40' JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: <i>[Signature]</i> Date: 5-15-17	CITY OF CHULA VISTA	Drawing No.
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" LOCATION: 1.5 MILES EAST OF MIX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERN OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY, 677 1359 PER R.O.S. (4642) SDW-425316 (06/03)	Horizontal 1" = 40' Vertical N/A	Field	Plans Prepared Under Supervision Of Date _____ THOMAS A. PICARD	Thomas A. Picard	Kelly Broughton	Kelly Broughton Director of Development Services or designee.	MSE WALL PLANTING PLANS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 32 Sheet 32 of 88

Print Date: 10 APR '17 OWD WO# D0944-060189 Otay Ranch, Village 3 - Slope & Erosion Control



**(A) WALL #1 PROFILE - IRRIGATION (SEGMENT 1)**  
 STA. 10+00 to 12+70 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)  
 SCALE: 1" = 10'-0"



**(B) WALL #1 PROFILE - IRRIGATION (SEGMENT 2)**  
 STA. 12+70 to 15+60 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)  
 SCALE: 1" = 10'-0"

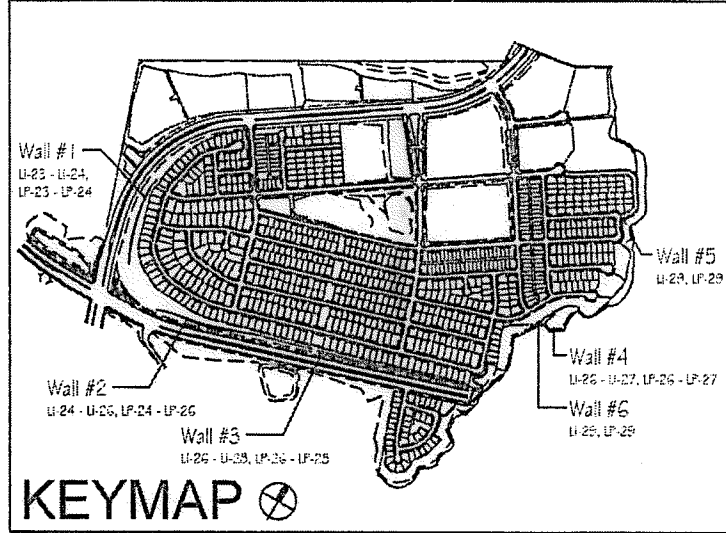
- CONSTRUCTION NOTES:**
- IRRIGATION POINT OF CONNECTION (P.O.C.) THE WATER SOURCE, PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS FROM AN R/W WATER METER AND ALL REQUIRED BACKFLOW PREVENTION EQUIPMENT OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF A MAINLINE STUB-OUT FROM THIS SOURCE TO THE LOCATION SHOWN. THE CONTRACTOR SHALL CONNECT TO THE MAINLINE STUB-OUT AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN.
  - IRRIGATION CONTROLLER- THE CONTROLLER, INTENDED PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF CONTROL WIRE FROM THIS CONTROLLER TO THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONNECT TO CONTROL WIRES AT THIS APPROXIMATE LOCATION AND EXTEND AS NEEDED.
  - LOCATIONS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT TO BE INSTALLED WITHIN PLANTING AREAS OR LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OTHER AUTHORIZED REPRESENTATIVE. ROUTE IRRIGATION MAINLINE AND CONTROL WIRE APPROXIMATELY AS SHOWN.

- DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS OF THE MSE WALL. DRIP TUBING WITH PRE-INSERTED, 40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED THROUGH MANUFACTURED NOTCH OF THE MSE BLOCK AND SECURE WITH STAPLES AT EVERY OPEN CELL. ALL TUBING TO FITTING CONNECTIONS INSTALLED ON THE MSE WALL SHALL BE SECURED WITH OETIKER STAINLESS STEEL CLAMPS-PART 121055- AS RECOMMENDED BY NETAFIM. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS AT BASE OF MSE WALL. DRIP TUBING WITH PRE-INSERTED, 40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED ON THE UP-HILL SIDE OF THE PLANTED ROW. DRIP LINE TO BE LOCATED AS TO PLACE THE TUBING ADJACENT TO THE ORIGINAL ROOT BALL. THIS IS A SUB-SURFACE INSTALLATION- TUBING WITH 4" TOPSOIL COVER AND SECURED WITH STAPLES 4" O.C. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)

- AIR/VACUUM RELIEF VALVE. REQUIRED FOR ALL SUBSURFACE DRIP TUBING. LOCATION SHOWN DIAGRAMMATICALLY; VALVE TO BE INSTALLED AT HIGHEST LOCAL ELEVATION (TYP. THROUGHOUT).
- FLUSH VALVES INSTALLED AT LATERAL ENDS OR ON FLUSH MANIFOLDS OF ALL DRIP SYSTEMS (TYP.)
- CHECK VALVES FOR REDUCTION OF LATERAL LINE DRAINAGE ARE PLACED TO DIVIDE SYSTEMS INTO CHECKED ZONES. ALL CHECKED ZONES MUST BE SEPARATED AT THE LATERAL ENDS. THERE CAN BE NO FLUSH MANIFOLD CROSSING FROM ONE CHECKED ZONE TO ANOTHER.
- SWING TYPE. FOR USE WHEN OPERATIONAL FLOW IS FROM LOW TO HIGH
- SPRING TYPE. FOR USE WHEN OPERATIONAL FLOW IS FROM HIGH TO LOW ELEVATION.

- REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)

Notes:  
 1) See sheets LP-22 - LP-24 for wall specific plant palettes.  
 2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.  
 3) All MSE walls shown on the plan will be approved by separate permit



OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 PZ 624, 711 RPZ 680  
 REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

"AS-BUILT"  
 SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_



**Tributary LA, Inc.**  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

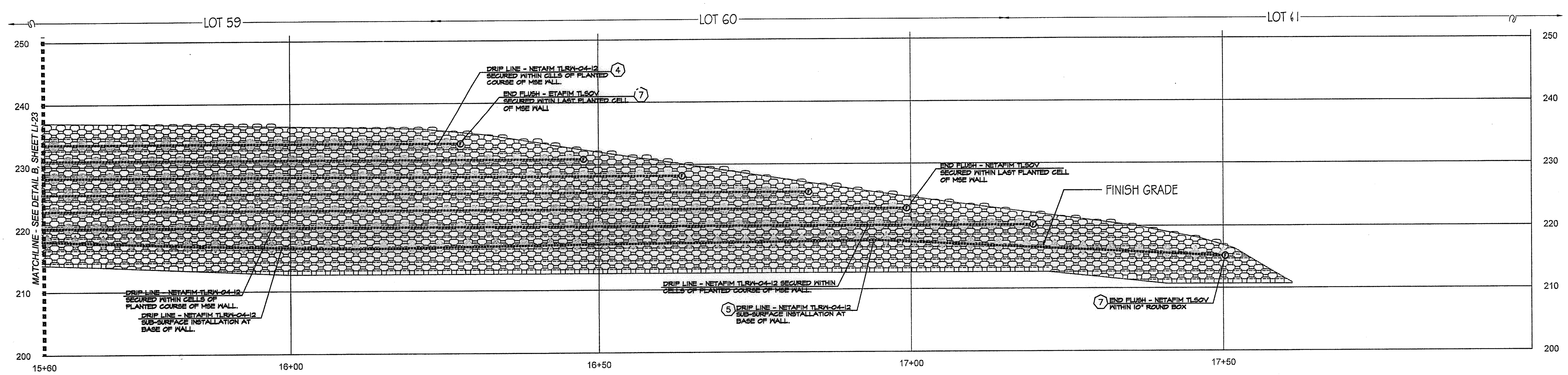
DATE: 10 APR '17  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./J.T.G.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BASS DECK MARKED "SO CITY ENGR." IN 3/4" R/W PIPE. LOCATION: 3/4 MILES EAST OF INTY. OF MAIN ST. & HERITAGE DR. ON ROCK MOUNTAIN 100' EASTERLY OF "ROUNDING" 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (781 1339 FOR R.O.S. 484) ELEV=829.319' (NAVD'83)

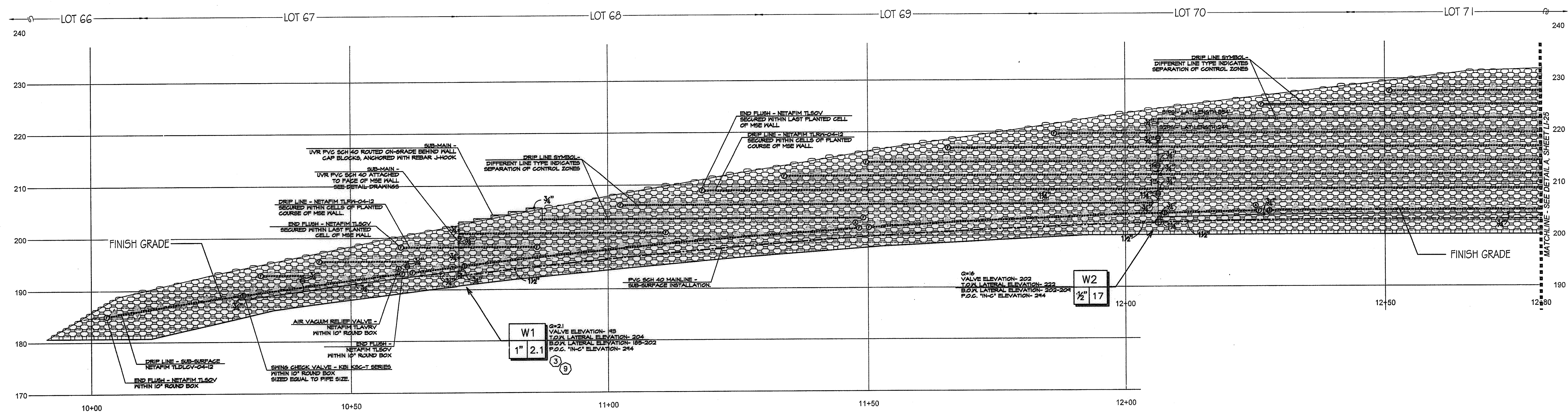
SCALE	Office	Designed By	Drawn By	Checked By
Horizontal 1" = 40' Vertical N/A				

Approved: *Mary Hadley* Date: 5-15-17  
 Kelly Broughton  
 Director of Development Services or designee.

**CITY OF CHULA VISTA**  
 MSE WALL PLANTING PLANS FOR:  
**OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL**  
 CHULA VISTA TENTATIVE TRACT MAP NO. 13-02  
 Drawing No. 16050 - 33  
 Sheet 33 of 88



**A WALL #1 PROFILE - IRRIGATION (SEGMENT 3)**  
 STA. 15+60 TO 17+51.75 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.) SCALE: 1" = 10'-0"



**B WALL #2 PROFILE - IRRIGATION (SEGMENT 1)**  
 STA. 10+00 TO 12+80 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.) SCALE: 1" = 10'-0"

**CONSTRUCTION NOTES:**

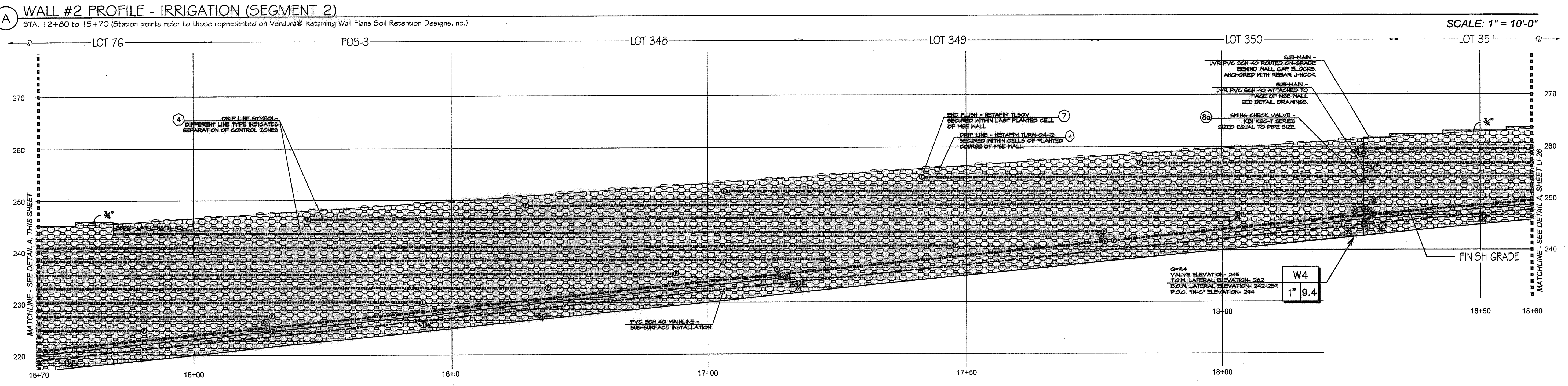
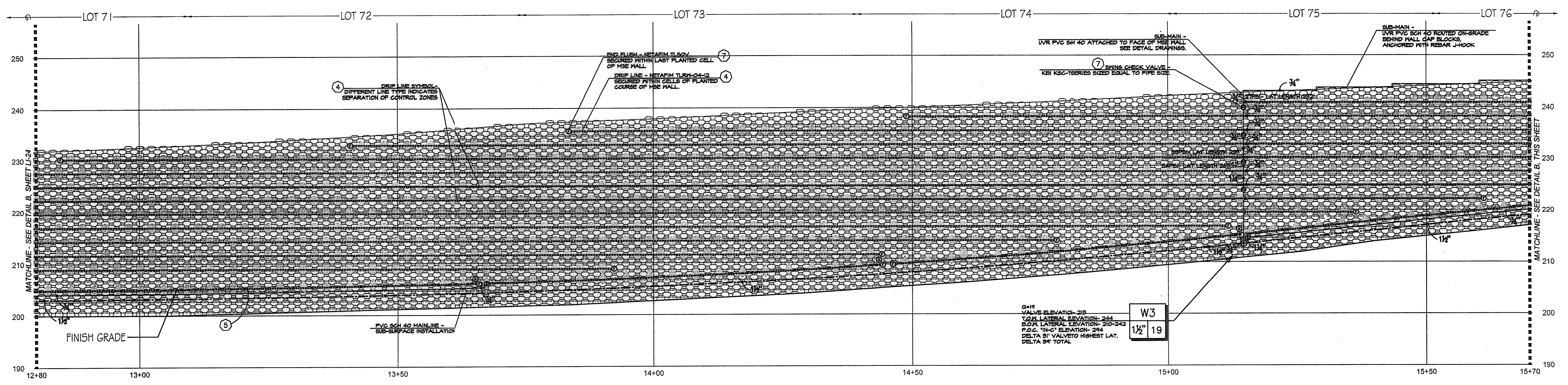
- 1) IRRIGATION POINT OF CONNECTION (P.O.C.) THE WATER SOURCE, PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS FROM AN R/W WATER METER AND ALL REQUIRED BACKFLOW PREVENTION EQUIPMENT OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF A MAINLINE STUB-OUT FROM THIS SOURCE TO THE MAINLINE STUB-OUT AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN.
- 2) IRRIGATION CONTROLLER- THE CONTROLLER, INTENDED PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF CONTROL WIRE FROM THIS CONTROLLER TO THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONNECT TO CONTROL WIRES AT THIS APPROXIMATE LOCATION AND EXTEND AS NEEDED.
- 3) LOCATIONS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT TO BE INSTALLED WITHIN PLANTING AREAS OR LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OTHER AUTHORIZED REPRESENTATIVE. ROUTE IRRIGATION MAINLINE AND CONTROL WIRE APPROXIMATELY AS SHOWN.
- 4) DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS OF THE MSE WALL. DRIP TUBING WITH PRE-INSERTED, 40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED THROUGH MANUFACTURED NOTCH OF THE MSE BLOCK AND SECURE WITH STAPLES AT EVERY OPEN CELL. ALL TUBING TO FITTING CONNECTIONS INSTALLED ON THE MSE WALL SHALL BE SECURED WITH CETIKER STAINLESS STEEL CLAMPS-PART #21055- AS RECOMMENDED BY NETAFIM. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- 5) DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS AT BASE OF MSE WALL. DRIP TUBING WITH PRE-INSERTED, 40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED ON THE UP-HILL SIDE OF THE PLANTED ROW. DRIP LINE TO BE LOCATED AS TO PLACE THE TUBING ADJACENT TO THE ORIGINAL ROOT BALL. THIS IS A SUB-SURFACE INSTALLATION- TUBING WITH 4" TOPSOIL COVER AND SECURED WITH STAPLES 4" O.C. (AVG APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- 6) AIR/VACUUM RELIEF VALVE. REQUIRED FOR ALL SUBSURFACE DRIP TUBING. LOCATION SHOWN DIAGRAMMATICALLY; VALVE TO BE INSTALLED AT HIGHEST LOCAL ELEVATION (TYP. THROUGHOUT).
- 7) FLUSH VALVES INSTALLED AT LATERAL ENDS OR ON FLUSH MANIFOLDS OF ALL DRIP SYSTEMS (TYP.)
- 8) CHECK VALVES FOR REDUCTION OF LATERAL LINE DRAINAGE ARE PLACED TO DIVIDE SYSTEMS INTO CHECKED ZONES. ALL CHECKED ZONES MUST BE SEPARATED AT THE LATERAL ENDS. THERE CAN BE NO FLUSH MANIFOLD CROSSING FROM ONE CHECKED ZONE TO ANOTHER.
- 8a) SWING TYPE: FOR USE WHEN OPERATIONAL FLOW IS FROM LOW TO HIGH ELEVATION.
- 8b) SPRING TYPE: FOR USE WHEN OPERATIONAL FLOW IS FROM HIGH TO LOW ELEVATION.
- 9) REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)

ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

- Notes:
- 1) See sheets LP-22 - LP-24 for wall specific plant palettes.
  - 2) Wall elevations correspond to station points reference on sheets LI-1 - LI-22.
  - 3) All MSE walls shown on the plan will be approved by separate permit

<p style="text-align: center;"><b>OTAY WATER DISTRICT</b></p> <p>PROJECT NO. <u>D0944-060189</u></p> <p>PZ 624, 711      RPZ 680</p> <p>REVIEWED BY: <i>[Signature]</i>      DATE: <u>5/10/17</u></p> <p style="text-align: center;">SIGNATURE EXPIRES AFTER 1 YEAR</p>	<p><b>IT'S THE LAW!</b></p> <p><b>DIAL BEFORE YOU DIG!</b></p> <p>CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING</p> <p>1-800-227-2600</p> <p>UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p> <p>BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600</p>	<p><b>"AS-BUILT"</b></p> <p>SIGNED: _____ DATE: _____</p> <p>PRINT NAME: _____ R.L.A. # _____</p> <p>DISCIPLINE: LANDSCAPE ARCHITECT      REGIST. EXP. _____</p>	<p><b>Tributary LA, Inc.</b></p> <p>2725 Jefferson Street, Suite 14        Carlsbad, CA 92008        760.434.9300 office        760.434.9303 fax</p>	<p>DATE: 10 APR '17</p> <p>SCALE: 1" = 40'</p> <p>JOB NO. 15024</p> <p>DRAWN BY: T.P./T.G.</p> <p style="text-align: center;">W.O. NO. OR-3001G</p>
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: <i>[Signature]</i> Date: <u>5-15-17</u>	CITY OF CHULA VISTA	Drawing No.	
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH Boulders & 1700' SOUTHWESTERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1484) ELEV=629.319' (NWD/85)	Horizontal 1" = 40' Vertical N/A	_____	_____	_____	_____	_____	Plans Prepared Under Supervision Of Date: _____ THOMAS A. PICARD      R.L.A. No. 4001	OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 34

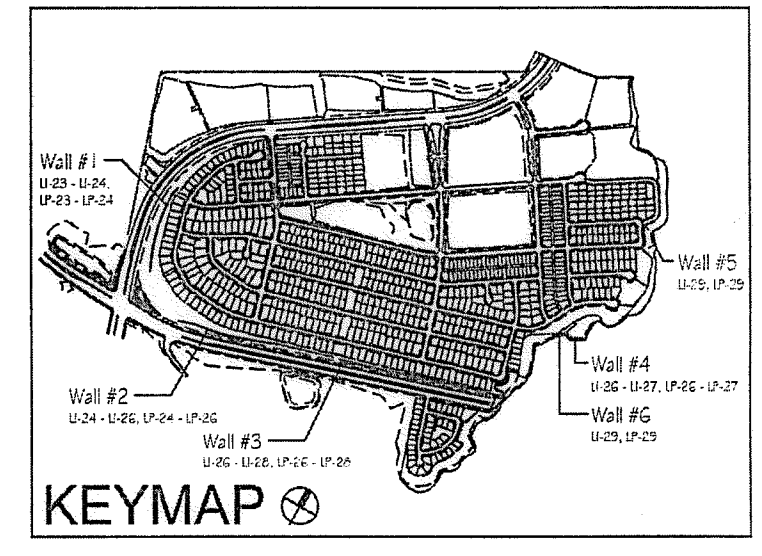


CONSTRUCTION NOTES:

- 1) IRRIGATION POINT OF CONNECTION (P.O.C.) THE WATER SOURCE, PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS FROM AN R/I WATER METER AND ALL REQUIRED BACKFLOW PREVENTION EQUIPMENT OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF A MAINLINE STUB-OUT FROM THIS SOURCE TO THE LOCATION SHOWN. THE CONTRACTOR SHALL CONNECT TO THE MAINLINE STUB-OUT AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN.
- 2) IRRIGATION CONTROLLER- THE CONTROLLER, INTENDED PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF CONTROL WIRE FROM THIS CONTROLLER TO THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONNECT TO CONTROL WIRES AT THIS APPROXIMATE LOCATION AND EXTEND AS NEEDED.
- 3) LOCATIONS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT TO BE INSTALLED WITHIN PLANTING AREAS OR LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OTHER AUTHORIZED REPRESENTATIVE. ROUTE IRRIGATION MAINLINE AND CONTROL WIRE APPROXIMATELY AS SHOWN.
- 4) DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS OF THE MSE WALL. DRIP TUBING WITH PRE-INSERTED, .40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED THROUGH MANUFACTURED NOTCH OF THE MSE BLOCK AND SECURE WITH STAPLES AT EVERY OPEN CELL. ALL TUBING TO FITTING CONNECTIONS INSTALLED ON THE MSE WALL SHALL BE SECURED WITH OETIKER STAINLESS STEEL CLAMPS-PART#21055- AS RECOMMENDED BY NETAFIM. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" WETTED WIDTH)
- 5) DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS AT BASE OF MSE WALL. DRIP TUBING WITH PRE-INSERTED, .40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED ON THE UP-HILL SIDE OF THE PLANTED ROW. DRIP LINE TO BE LOCATED AS TO PLACE THE TUBING ADJACENT TO THE ORIGINAL ROOT BALL. THIS IS A SUB-SURFACE INSTALLATION- TUBING WITH 4" TOPSOIL COVER AND SECURED WITH STAPLES 4' O.C. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" WETTED WIDTH)
- 6) AIR/VACUUM RELIEF VALVE. REQUIRED FOR ALL SUBSURFACE DRIP TUBING. LOCATION SHOWN DIAGRAMMATICALLY VALVE TO BE INSTALLED AT HIGHEST LOCAL ELEVATION (TYF. THROUGHOUT).
- 7) FLUSH VALVES INSTALLED AT LATERAL ENDS OR ON FLUSH MANIFOLDS OF ALL DRIP SYSTEMS (TYF.)
- 8) CHECK VALVES FOR REDUCTION OF LATERAL LINE DRAINAGE ARE PLACED TO DIVIDE SYSTEMS INTO CHECKED ZONES. ALL CHECKED ZONES MUST BE SEPARATED AT THE LATERAL ENDS. THERE CAN BE NO FLUSH MANIFOLD CROSSING FROM ONE CHECKED ZONE TO ANOTHER.
- 8a) SWING TYPE: FOR USE WHEN OPERATIONAL FLOW IS FROM LOW TO HIGH ELEVATION.
- 8b) SPRINGS TYPE: FOR USE WHEN OPERATIONAL FLOW IS FROM HIGH TO LOW ELEVATION.
- 9) REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)

ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

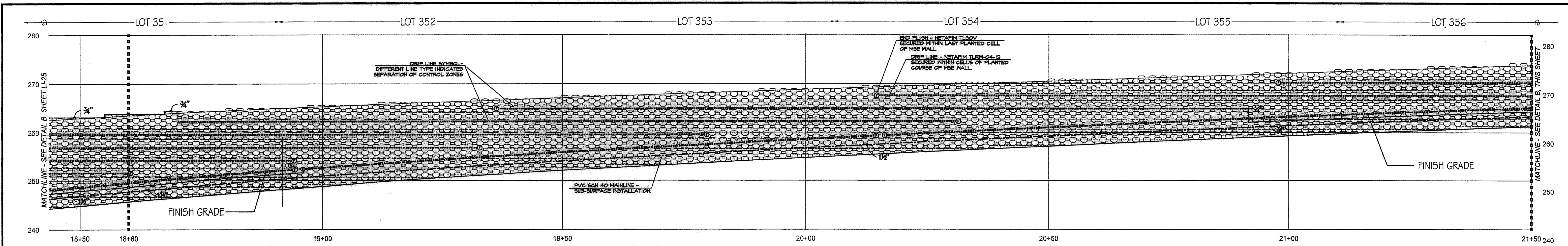
- Notes:
- 1) See sheets LP-22 - LP-24 for wall specific plant palettes.
  - 2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.
  - 3) All MSE walls shown on the plan will be approved by separate permit



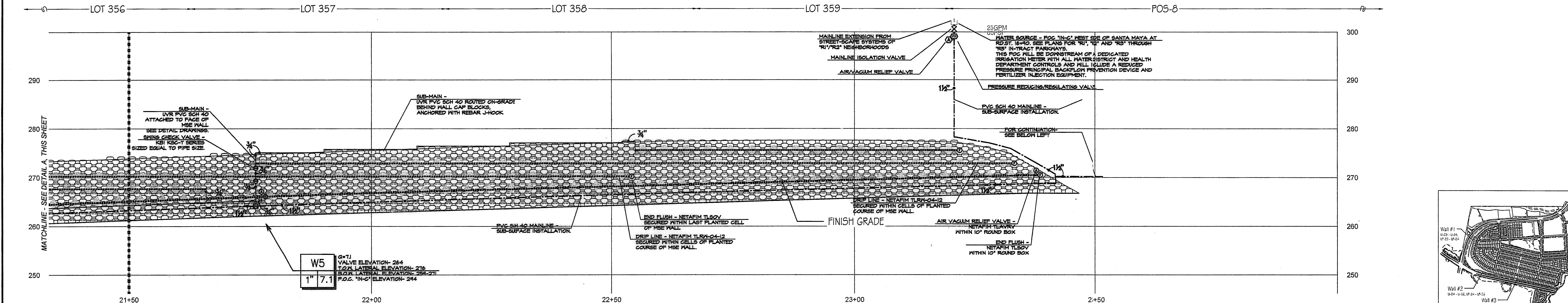
<b>OTAY WATER DISTRICT</b> PROJECT NO. <b>D0944-060189</b> PZ 624, 711      RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: 5/10/17 SIGNATURE EXPIRES AFTER 1 YEAR	<b>IT'S THE LAW!</b> DIAL BEFORE YOU DIG!  CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600	<b>"AS-BUILT"</b> SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT      REG. EXP. _____	 <b>Tributary LA, Inc.</b> 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 10 APR '17 SCALE: 1" = 40' JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G
--	--	--	---	--

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved: <i>[Signature]</i> Date: 5-15-17	CITY OF CHULA VISTA	Drawing No.	
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BENCH MARK MARKED "SD CITY ENGR." IN 3/4" LOCATION: 1/2 MILES EAST OF INTER OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 150' EASTERLY OF "ROMAN" 10" HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (74' 1359 PER R.O.S. (4841) ELEV=828.319' (NAD83)	Horizontal 1" = 40' Vertical N/A		THOMAS A. PICARD				Director of Development Services or designee.	MSE WALL PLACING PLANS FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 35 Sheet 35 of 88

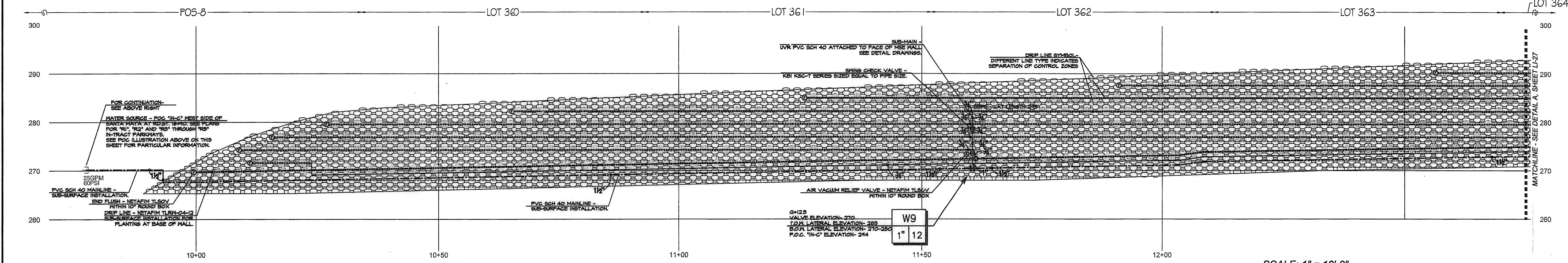
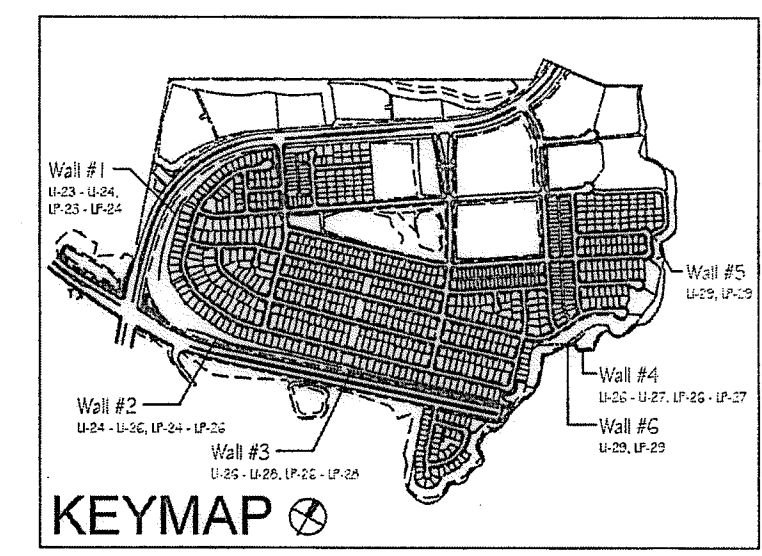




**(A) WALL #2 PROFILE - IRRIGATION (SEGMENT 4)**  
 STA. 18+50 to 21+50 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)  
 SCALE: 1" = 10'-0"



**(B) WALL #2 PROFILE - IRRIGATION (SEGMENT 5)**  
 STA. 21+50 to 24+50 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)  
 SCALE: 1" = 10'-0"



**(C) WALL #3 PROFILE - IRRIGATION (SEGMENT 1)**  
 STA. 10+00 to 12+75 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)  
 SCALE: 1" = 10'-0"

- Notes:
- See sheets LP-22 - LP-24 for wall specific plant palettes.
  - Wall elevations correspond to station points reference on sheets LP-1 - LP-22.
  - All MSE walls shown on the plan will be approved by separate permit

**CONSTRUCTION NOTES:**  
 # FOR NOTIS SEE OTHER SHEETS.

OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 624, 711 RPZ 680  
 REVIEWED BY: [Signature] DATE: 5/1/17  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW!  
 DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALET OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALET AT 1-800-227-2600

"AS-BUILT"  
 PRINT NAME: [Signature] R.L.A. # [Blank]  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. [Blank]

REGISTERED LANDSCAPE ARCHITECT  
 THOMAS A. PICARD  
 9/5/17  
 4773/17  
 CALIFORNIA

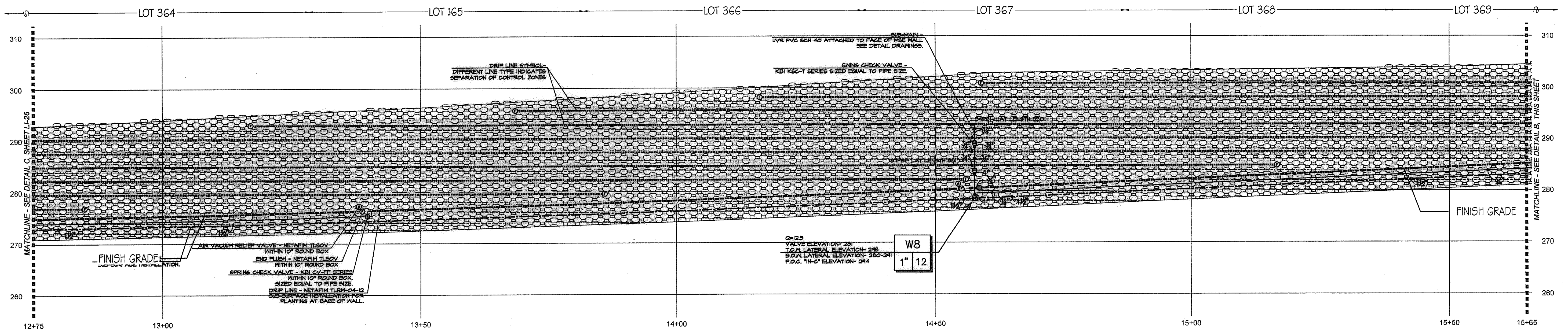
**Tributary LA, Inc.**  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

DATE: 10 APR '17  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P. / T.G.  
 W.O. NO. OR-3001G

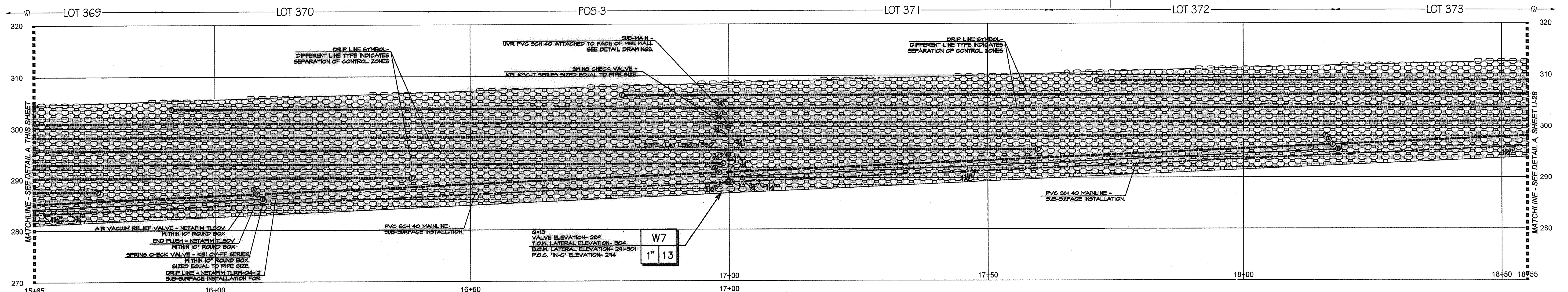
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" IRON PIPE. LOCATION: 1.5 MILES EAST OF INTX. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PI# 1309 PER R.O.S. 14841) ELEV=629.319' (NAD83)
Inspector _____						SCALE: Office _____ Field _____ Traffic _____
Date Completed _____						Horizontal 1" = 40' Vertical N/A

Office \_\_\_\_\_ Field \_\_\_\_\_ Traffic \_\_\_\_\_  
 Designed By \_\_\_\_\_ Drawn By \_\_\_\_\_ Checked By \_\_\_\_\_  
 Plans Prepared Under Supervision Of \_\_\_\_\_ Date \_\_\_\_\_  
 Approved: [Signature] Date: 5-15-17  
 Kelly Broughton  
 Director of Development Services or designee.

CITY OF CHULA VISTA  
 MISE WALL PLANTING PLANS FOR:  
**OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL**  
 CHULA VISTA TENTATIVE TRACT MAP NO. 13-02  
 OWD WO# D0944-060189 OWD PERMIT# PLR-16-014  
 Drawing No. 16050 - 36  
 Sheet 36 of 88



**(A) WALL #3 PROFILE - IRRIGATION (SEGMENT 2)**  
 STA. 12+75 to 15+65 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs Inc.)  
 SCALE: 1" = 10'-0"



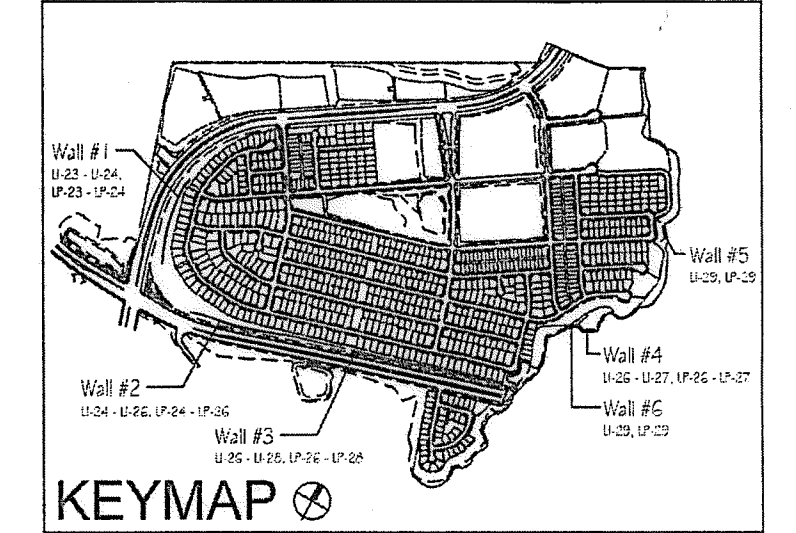
**(B) WALL #3 PROFILE - IRRIGATION (SEGMENT 3)**  
 STA. 15+65 to 18+55 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs Inc.)  
 SCALE: 1" = 10'-0"

**CONSTRUCTION NOTES:**

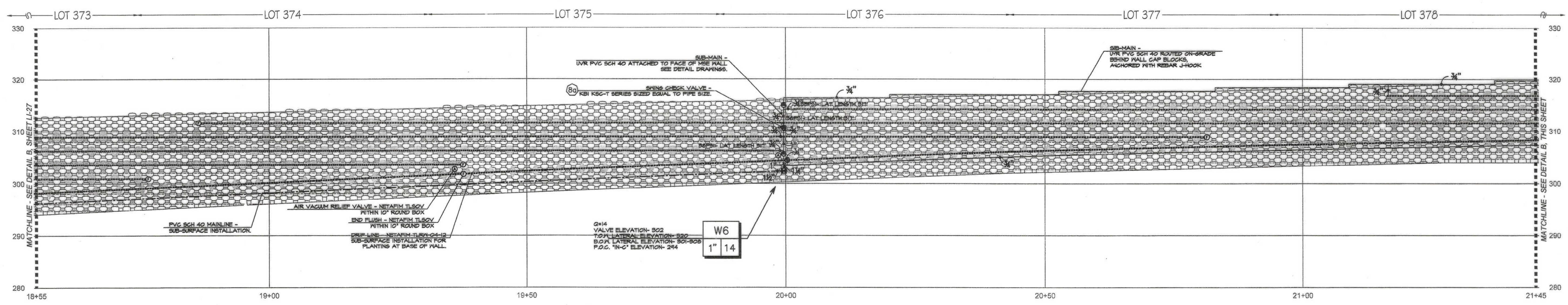
- 1) IRRIGATION POINT OF CONNECTION (P.O.C.) THE WATER SOURCE, PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS FROM AN R.M. WATER METER AND ALL REQUIRED BACKFLOW PREVENTION EQUIPMENT OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF A MAINLINE STUB-OUT FROM THIS SOURCE TO THE LOCATION SHOWN. THE CONTRACTOR SHALL CONNECT TO THE MAINLINE STUB-OUT AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN.
- 2) IRRIGATION CONTROLLER- THE CONTROLLER, INTENDED PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF CONTROL WIRE FROM THIS CONTROLLER TO THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONNECT TO CONTROL WIRES AT THIS APPROXIMATE LOCATION AND EXTEND AS NEEDED.
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- 4) DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS OF THE MSE WALL. DRIP TUBING WITH PRE-INSERTED, .40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED THROUGH MANUFACTURED NOTCH OF THE MSE BLOCK AND SECURE WITH STAPLES AT EVERY OPEN CELL. ALL TUBING TO FITTING CONNECTIONS INSTALLED ON THE MSE WALL SHALL BE SECURED WITH OTIKER STAINLESS STEEL CLAMPS-PAR #21055- AS RECOMMENDED BY NETAFIM. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- 5) DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS AT BASE OF MSE WALL. DRIP TUBING WITH PRE-INSERTED, .40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED ON THE UP-HILL SIDE OF THE PLANTED ROW. DRIFLINE TO BE LOCATED AS TO PLACE THE TUBING ADJACENT TO THE ORIGINAL ROOT BALL. THIS IS A SUB-SURFACE INSTALLATION- TUBING WITH 4" TOPSOIL COVER AND SECURED WITH STAPLES 4' O.C. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- 6) AIR/VACUUM RELIEF VALVE. REQUIRED FOR ALL SUBSURFACE DRIP TUBING. LOCATION SHOWN DIAGRAMMATICALLY; VALVE TO BE INSTALLED AT HIGHEST LOCAL ELEVATION (TYP. THROUGHOUT).
- 7) FLUSH VALVES INSTALLED AT LATERAL ENDS OR ON FLUSH MANIFOLDS OF ALL DRIP SYSTEMS (TYP)
- 8) CHECK VALVES FOR REDUCTION OF LATERAL LINE DRAINAGE ARE PLACED TO DIVIDE SYSTEMS INTO CHECKED ZONES. ALL CHECKED ZONES MUST BE SEPARATED AT THE LATERAL ENDS. THERE CAN BE NO FLUSH MANIFOLD CROSSING FROM ONE CHECKED ZONE TO ANOTHER.
- 8a) SWING TYPE. FOR USE WHEN OPERATIONAL FLOW IS FROM LOW TO HIGH ELEVATION.
- 8b) SPRING TYPE. FOR USE WHEN OPERATIONAL FLOW IS FROM HIGH TO LOW ELEVATION.
- 9) REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)

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- Notes:
- 1) See sheets LP-22 - LP-24 for wall specific plant palettes.
  - 2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.
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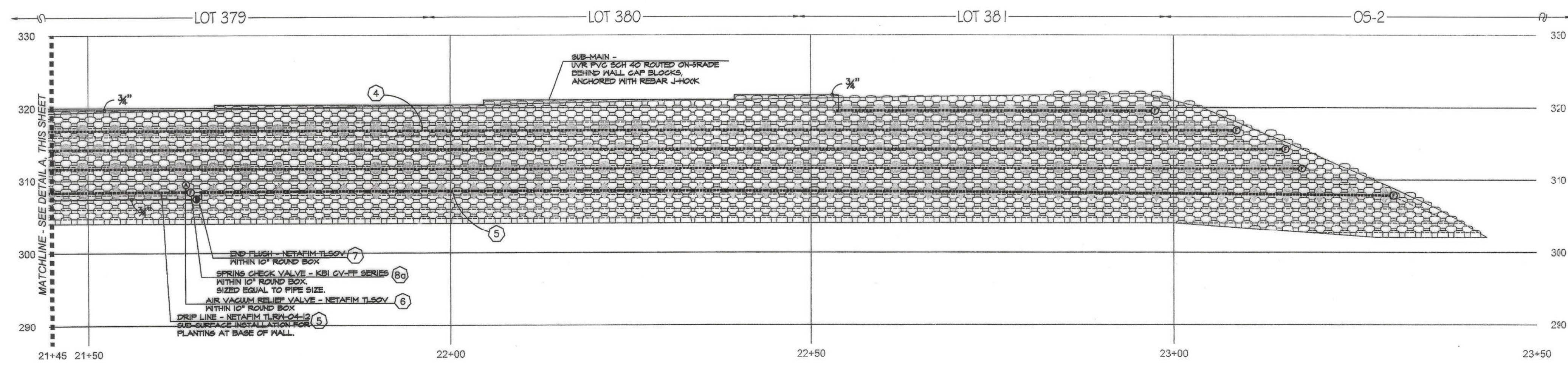


<b>OTAY WATER DISTRICT</b> PROJECT NO. <u>D0944-060189</u> PZ 624, 711      RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: <u>5/10/17</u> SIGNATURE EXPIRES AFTER 1 YEAR		IT'S THE LAW! DIAL BEFORE YOU DIG!  CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600	"AS-BUILT" SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT      REGIST. EXP. _____	 <b>Tributary LA, Inc.</b> 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 10 APR '17 SCALE: 1" = 40' JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G									
CONSTRUCTION RECORD Contractor _____ Inspector _____ Date Completed _____		REFERENCES 16026-01 - 16026-93 BY HUNSAKER & ASSOC.		REVISIONS Date App'd _____ Description _____ BENCH MARK DESCRIPTION BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF INTX. OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROMINENT 10' HIGH Boulders & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1464) ELEV=625.31' (NAD83)		SCALE Horizontal 1" = 40' Vertical N/A		Office _____ Field _____ Traffic _____ Designed By THOMAS A. PICARD Drawn By _____ Checked By _____ Plans Prepared Under Supervision Of _____ Date _____ R.L.A. No. 4001		Approved: <i>[Signature]</i> Date: <u>5-15-17</u> Kelly Broughton Director of Development services or designee.		CITY OF CHULA VISTA MSE WALL PLANTING PLANS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02 OWD WO# D0944-060189 OWD PERMIT# FLR-16-014		Drawing No. <b>16050 - 37</b> Sheet 37 of 88



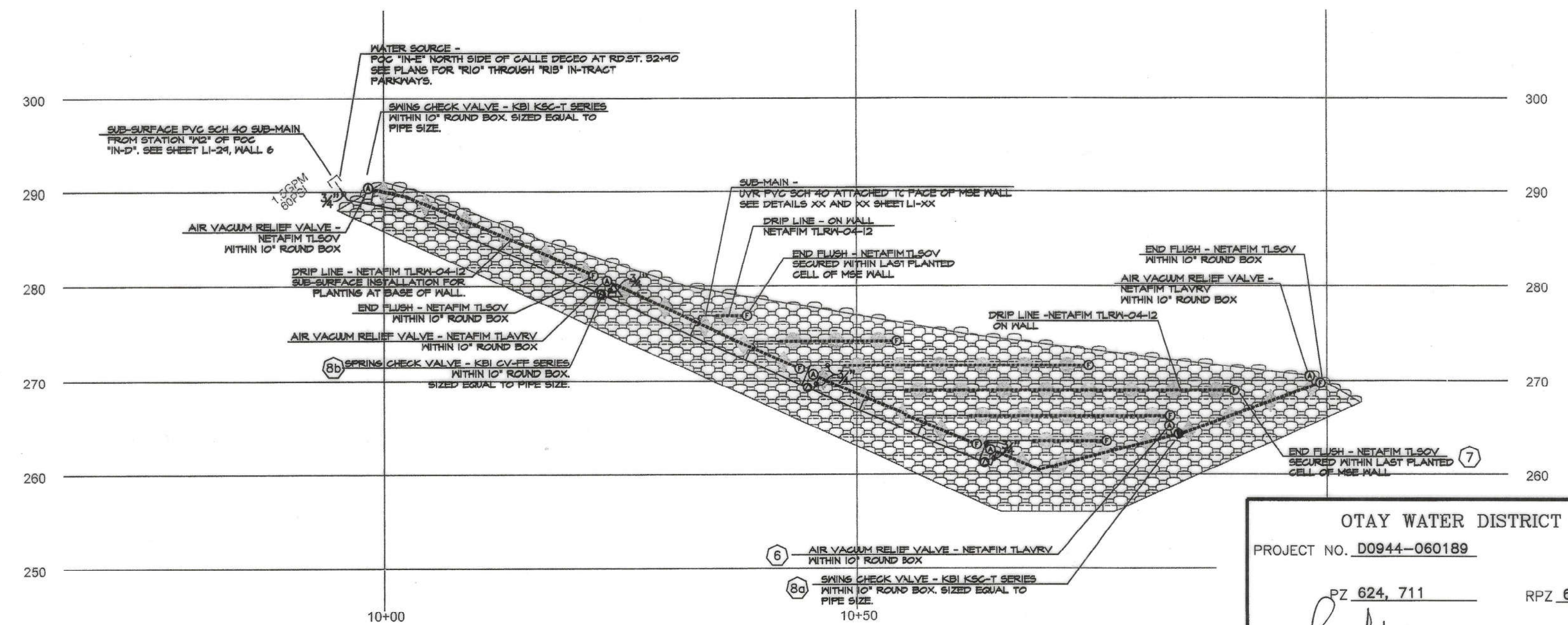
**(A) WALL #3 PROFILE - IRRIGATION (SEGMENT 4)**  
 STA. 18+55 to 21+45 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)

SCALE: 1" = 10'-0"



**(B) WALL #3 PROFILE - IRRIGATION (SEGMENT 5)**  
 STA. 21+45 to 23+50 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)

SCALE: 1" = 10'-0"



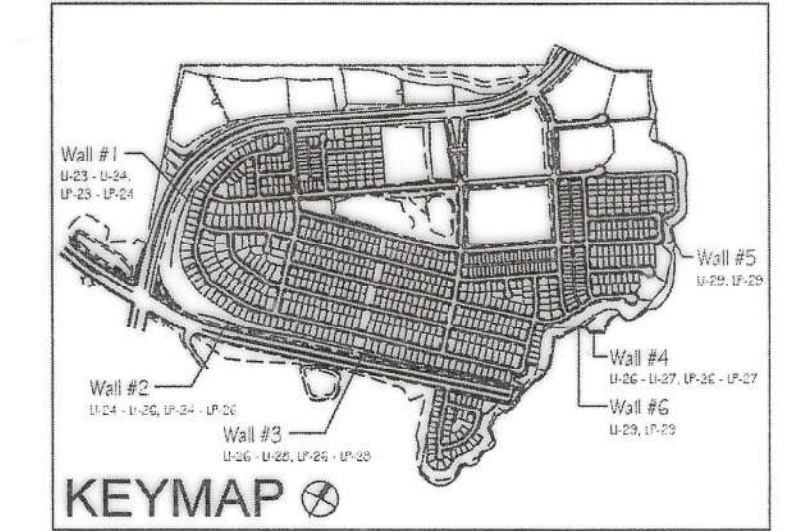
**(C) WALL #4 PROFILE - IRRIGATION (SEGMENT 1)**  
 STA. 10+00 to 10+98.72 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)

SCALE: 1" = 10'-0"

**CONSTRUCTION NOTES:**

- 1) IRRIGATION POINT OF CONNECTION (P.O.C.) THE WATER SOURCE, PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS FROM AN R.N. WATER METER AND ALL REQUIRED BACKFLOW PREVENTION EQUIPMENT OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF A MAINLINE STUB-OUT FROM THIS SOURCE TO THE LOCATION SHOWN. THE CONTRACTOR SHALL CONNECT TO THE MAINLINE STUB-OUT AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN.
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- Notes:
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  - 2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.
  - 3) All MSE walls shown on the plan will be approved by separate permit

OTAY WATER DISTRICT  
 PROJECT NO. D0944-060189  
 PZ 824, 711 RPZ 680  
 REVIEWED BY: *[Signature]* DATE: 5/10/17  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"  
 SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_



**Tributary LA, Inc.**  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

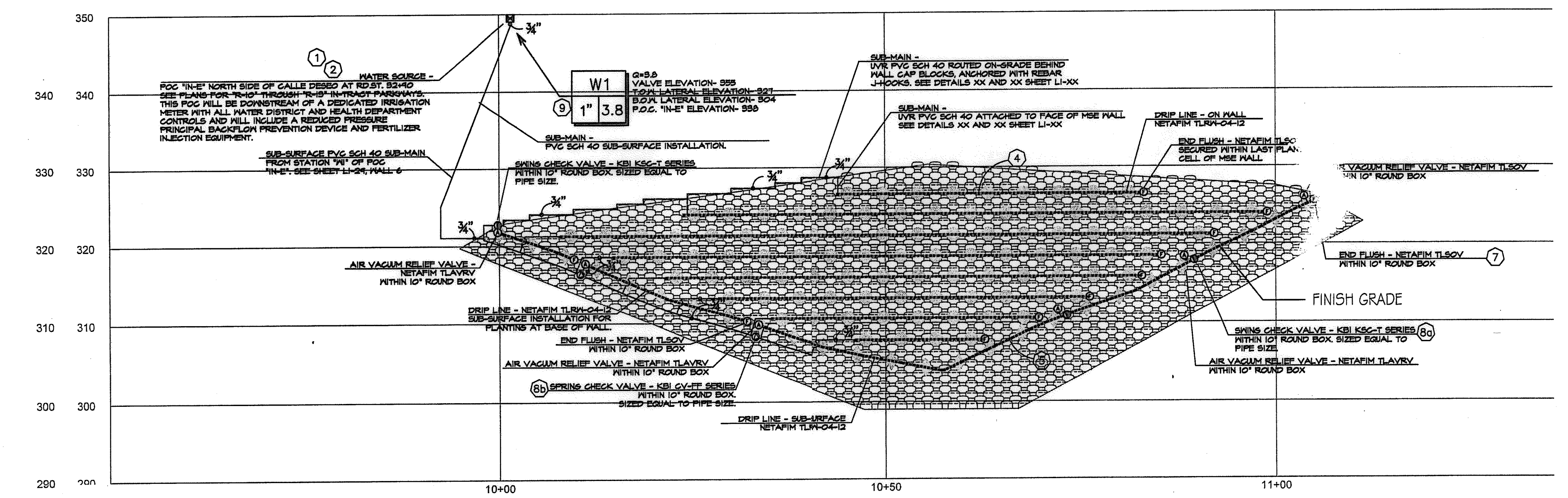
DATE: 10 APR '17  
 SCALE: 1" = 40'  
 JOB NO. 15024  
 DRAWN BY: T.P./T.G.  
 W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	APPROVED	DATE	CITY OF CHULA VISTA	Drawing No.
Contractor _____ Inspector _____ Date Completed _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS BULK MARKED "SO CITY ENGR." IN 3/4" LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERN OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PT 1359 PER R.O.S. 1841) ELEV=653.312 (NAD83)	Horizontal 1" = 40' Vertical N/A	Field _____ Traffic _____	Plans Prepared Under Supervision Of Date: _____ THOMAS A. PICARD	Supervision Of Date: _____ R.L.A. No. 4001	Checked By _____	Approved: <i>[Signature]</i> Date: 5-15-17 Kelly Broughton Director of Development Services or designee.	MSE WALL PLANTING PLANS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 38 Sheet 36 of 88	

CONSTRUCTION NOTES:

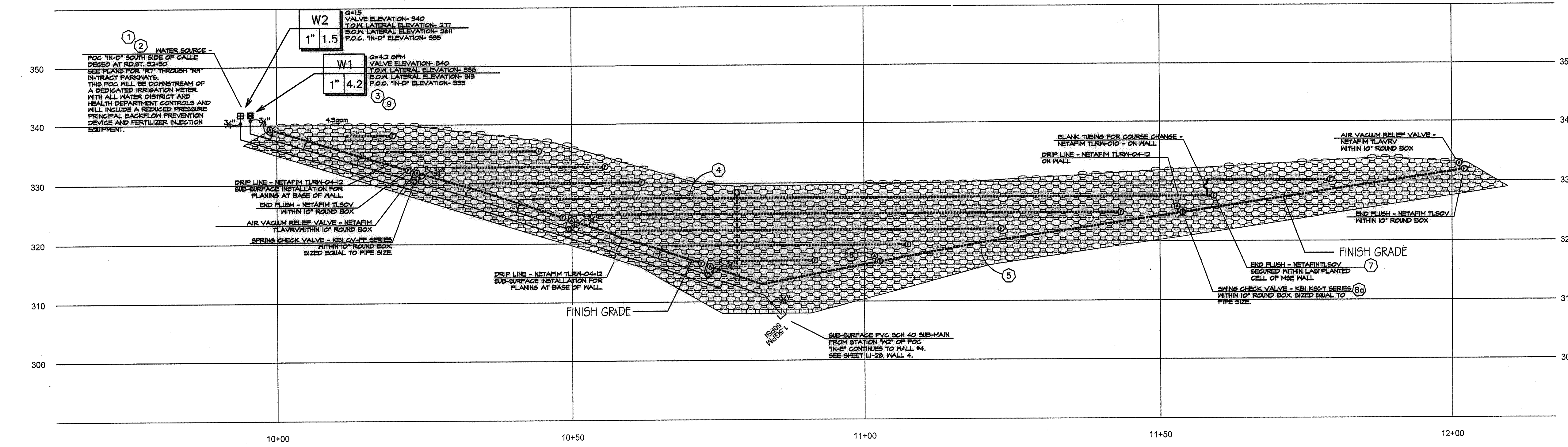
- 1 IRRIGATION POINT OF CONNECTION (P.O.C.) THE WATER SOURCE, PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS FROM AN R/W WATER METER AND ALL REQUIRED BACKFLOW PREVENTION EQUIPMENT OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF A MAINLINE STUB-OUT FROM THIS SOURCE TO THE MAINLINE STUB-OUT AT THIS APPROXIMATE LOCATION AND EXTEND AS SHOWN.
- 2 IRRIGATION CONTROLLER- THE CONTROLLER, INTENDED PRIMARILY FOR THE PARKWAYS OF THE MASTER HOA, IS OUTSIDE THE LIMITS OF THIS PROJECT. THESE PLANS CALL FOR THE INSTALLATION OF CONTROL WIRE FROM THIS CONTROLLER TO THE LOCATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONNECT TO CONTROL WIRES AT THIS APPROXIMATE LOCATION AND EXTEND AS NEEDED.
- 3 LOCATIONS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT TO BE INSTALLED WITHIN PLANTING AREAS OR LOCATED AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OTHER AUTHORIZED REPRESENTATIVE. ROUTE IRRIGATION MAINLINE AND CONTROL WIRE APPROXIMATELY AS SHOWN.
- 4 DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS OF THE MSE WALL. DRIP TUBING WITH PRE-INSERTED, 40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED THROUGH MANUFACTURED NOTCH OF THE MSE BLOCK AND SECURE WITH STAPLES AT EVERY OPEN CELL. ALL TUBING TO FITTING CONNECTIONS ON THE MSE WALL SHALL BE SECURED WITH OETIKER STAINLESS STEEL CLAMPS-PART #210SS- AS RECOMMENDED BY NETAFIM. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- 5 DRIP IRRIGATION FOR SHRUB AND VINE PLANTINGS AT BASE OF MSE WALL. DRIP TUBING WITH PRE-INSERTED, 40 GPH PRESSURE COMPENSATING EMITTERS AT 12" O.C. TUBING TO BE ROUTED ON THE UP-HILL SIDE OF THE PLANTED ROW. DRIP LINE TO BE LOCATED AS TO PLACE THE TUBING ADJACENT TO THE ORIGINAL ROOT BALL. THIS IS A SUB-SURFACE INSTALLATION- TUBING WITH 4" TOPSOIL COVER AND SECURES WITH STAPLES 4' O.C. (AVG. APPLICATION RATE = .642 in/hr. ASSUMING A 12" NETTED WIDTH)
- 6 AIR/VACUUM RELIEF VALVE. REQUIRED FOR ALL SUBSURFACE DRIP TUBING. LOCATION SHOWN DIAGRAMMATICALLY; VALVE TO BE INSTALLED AT HIGHEST LOCAL ELEVATION (TYP. THROUGHOUT).
- 7 FLUSH VALVES INSTALLED AT LATERAL ENDS OR ON FLUSH MANIFOLDS OF ALL DRIP SYSTEMS (TYP.)
- 8 CHECK VALVES FOR REDUCTION OF LATERAL LINE DRAINAGE ARE PLACED TO DIVIDE SYSTEMS INTO CHECKED ZONES. ALL CHECKED ZONES MUST BE SEPARATED AT THE LATERAL ENDS. THERE CAN BE NO FLUSH MANIFOLD CROSSING FROM ONE CHECKED ZONE TO ANOTHER.
- 8a SWING TYPE: FOR USE WHEN OPERATIONAL FLOW IS FROM LOW TO HIGH ELEVATION.
- 8b SPRING TYPE: FOR USE WHEN OPERATIONAL FLOW IS FROM HIGH TO LOW ELEVATION.
- 9 REMOTE CONTROL VALVES TO BE HIDDEN FROM CASUAL SIGHT WHEN POSSIBLE. STAKE LOCATION OF ALL VALVES FOR APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE. (TYPICAL ALL LOCATIONS)

ALL BASE INFORMATION FOR THESE PLANS HAS BEEN OBTAINED FROM THE LANDSCAPE ARCHITECT AND REFLECTS ARCHITECTURAL, CIVIL AND/OR MECHANICAL DESIGN AND/OR PLANS. THE LANDSCAPE ARCHITECT OR IRRIGATION CONSULTANT DEPENDS ON ACCURACY OF THIS OBTAINED INFORMATION. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.



**A WALL #5 PROFILE - IRRIGATION (SEGMENT 1)**  
 STA. 10+00 to 11+04.86 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)

SCALE: 1" = 10'-0"



**B WALL #6 PROFILE - IRRIGATION (SEGMENT 1)**  
 STA. 10+00 to 12+02.67 (Station points refer to those represented on Verdura® Retaining Wall Plans Soil Retention Designs, Inc.)

SCALE: 1" = 10'-0"

- Notes:
- 1) See sheets LP-22 - LP-24 for wall specific plant palettes.
  - 2) Wall elevations correspond to station points reference on sheets LP-1 - LP-22.
  - 3) All MSE walls shown on the plan will be approved by separate permit

<b>OTAY WATER DISTRICT</b> PROJECT NO. <u>D0944-060189</u> PZ 624, 711      RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: <u>5/10/17</u> SIGNATURE EXPIRES AFTER 1 YEAR	<b>IT'S THE LAW!</b> DIAL BEFORE YOU DIG!  BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600	CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	<b>"AS-BUILT"</b> SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT      REGIST. EXP. _____	 <b>Tributary LA, Inc.</b> 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 10 APR '17 SCALE: 1" = 40' JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G
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CONSTRUCTION RECORD	REFERENCES 16026-01 - 16026-93	BY HUNSAKER & ASSOC.	REVISIONS	Date	App'd	BENCH MARK DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE. LOCATION: 1.5 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERLY OF PROPOSED 10' HIGH EMBANKMENT & 1200' SOUTHERLY OF WATER STORAGE FACILITY. (PT# 1359 PER R.O.S. 1484) ELEV=829.319' (NAVD83)	SCALE Horizontal 1" = 40' Vertical N/A	Office _____ Field _____ Traffic _____	Designed By _____ Drawn By _____ Checked By _____	Approved: <i>[Signature]</i> Date: <u>5-15-17</u> Kelly Broughton Director of Development Services or designee.	<b>CITY OF CHULA VISTA</b> MSE WALL PLANTING PLANS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	Drawing No. <b>16050 - 39</b> Sheet 39 of 88
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**IRRIGATION CONTROL EQUIPMENT LEGEND**

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS	DETAIL
	SATELLITE OR CONTROLLER FOR C.F.D. MAINTENANCE AREAS	RAINMASTER EAGLE PLUS I-CENTRAL AS ASSEMBLY WITHIN STAINLESS STEEL ENCLOSURE.	ALL CONTROLLER/SATELLITE ASSEMBLIES BY SITEONE GREEN TECH (800) 427-0779. TEXT WITHIN SYMBOL IDENTIFIES SATELLITE. SEE SHEETS T-2 / T-3 / T-4 FOR MODEL NUMBER AND STATION COUNT.	A1 / LI-31 SDRSD I-17
	CONTROLLER HOA MAINTENANCE AREAS	RAINMASTER EAGLE PLUS-I AS ASSEMBLY WITHIN STAINLESS STEEL ENCLOSURE.	ALL CONTROLLER ASSEMBLIES BY GREEN TECH DIVISION OF SITEONE LANDSCAPE (800) 427-0779. SHEETS T-2 AND T-3 AND FOR MODEL NUMBERS AND STATION COUNT. TEXT ON SYMBOL IDENTIFIES CONTROLLER.	A1 / LI-31 SDRSD I-17
	CONTROLLER PRIVATE LOTS	TORO EVOLUTION SERIES WITH STATION MODULES APPROPRIATE FOR THE REQUIRED STATION COUNT.	ALL CONTROLLER ASSEMBLIES FOR PRIVATE LOT SYSTEMS WILL BE BY THE LANDSCAPE CONTRACTOR, INSTALLED WITHIN GARAGE OF PRIVATE RESIDENCE. COORDINATE POWER, CONDUIT FOR CONTROL WIRE WITH APPROPRIATE ON-SITE PERSONNEL.	A2 / LI-31
	WEATHER / ET <sub>0</sub> SENSOR	TORO WIRELESS ET SENSOR	INSTALL ON FACIA BOARD OR TOP RAIL OF FENCE. SENSOR TO HAVE CLEAR VIEW OF SKY. (FOR USE ON PRIVATE SYSTEMS)	A2 / LI-31

**IRRIGATION EQUIPMENT LEGEND - RECYCLED WATER**

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS	DETAIL
	WATER METER POINT OF CONNECTION	RECYCLED WATER IRRIGATION METER BY OWNER	SEE PLANS FOR DIAGRAMMATIC LOCATIONS OF ALL POINTS OF CONNECTION. SEE ALSO CIVIL DRAWINGS FOR EXACT SERVICE LINE LOCATIONS	B-SERIES LI-31
	FOG ASSEMBLY-Y-STRAINER CHECK VALVE	WILKINS 500 SERIES STRAINER WITH 30 MESH. WILKINS 40XL2 CHECK VALVE.	THIS EQUIPMENT IS FOR USE WITH RECYCLED WATER SERVICE THAT DO NOT INCLUDE A FERTILIZER INJECTOR ONLY. SEE DETAIL DRAWINGS FOR GENERAL ARRANGEMENT AND BOX SIZES. ASSEMBLIES TO BE WITHIN VALVE BOXES AS SHOWN IN WATER AGENCIES STANDARD DRAWINGS WR-03 AND WR-04 THIS SHEET.	B-SERIES LI-31
	PRESSURE REGULATOR	WILKINS 300XL HR PRESSURE REG.	FABRICATE AND INSTALL AS DETAILED AND TO THE SATISFACTION OF OMD AND/OR DEH INSPECTOR. SET PRESSURE AS SHOWN ON PRESSURE CALCULATIONS. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	B-SERIES LI-31
	CROSS CONNECTION TEST STATION	CONTRACTOR FABRICATED	FABRICATE AND INSTALL AS REQUIRED BY OMD AND AS DETAILED BY M.A.S. DRAWINGS #WR-03. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	B-SERIES LI-32
	MASTER CONTROL VALVE	HUNTER INDUSTRIES IBV-XXXG-F5 (XXX=VALVE SIZE)	VALVE SIZE EQUALS PIPE LINE SIZES AS SHOWN ON PLANS. NORMALLY CLOSED R.C.V. WITH CONTROLLER I.D. AND R.M. WARNING TAG FOR USE WITH "PSF" OPTION BY SITEONE GREENTECH. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	B6 / LI-32 D8, D9 / LI-34
	FLOW SENSOR	RAINMASTER FS-B130 OR FS-B200	AS PROVIDED WITH CONTROLLER/SATELLITE ASSEMBLY BY SITEONE GREEN TECH - SIZE AS NOTED ON SHEET T-2. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	B7 / LI-32 D8, D9 / LI-34
	PVC BALL VALVE 2" AND SMALLER	HAYWARD TB SERIES (SCH-80) PVC BALL VALVE WITH INTEGRAL UNIONS	SIZED EQUAL TO PIPE SIZE. FOR MAINLINE AND MANIFOLD ISOLATION ON LINES 3" AND SMALLER. INSTALL WITH UNIONS BOTH SIDES. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	B10 / LI-32 D8, D9 / LI-34
	SPRING CHECK VALVE	KING BROTHERS INDUSTRIES CV-XXX-FF (XXX=SIZE)	TO MINIMIZE LATERAL LINE DRAINAGE WHERE OPERATIONAL FLOW IS DOWN-HILL. SIZED EQUAL TO LATERAL LINE PIPE SIZE; 1" MAXIMUM. INSTALL WITHIN 12" ROUND VALVE BOX AS DETAILED.	F1, F2 / LI-35 D8, D9 / LI-34
	SWING CHECK VALVE	KING BROTHERS INDUSTRIES KSC-XXX-T (XXX=SIZE)	TO MINIMIZE LATERAL LINE DRAINAGE WHERE OPERATIONAL FLOW IS UP-HILL. SIZED EQUAL TO LATERAL LINE PIPE SIZE; 2" MAXIMUM. INSTALL WITHIN 12" ROUND VALVE BOX AS DETAILED.	F1, F2 / LI-35 D8, D9 / LI-34
	AIR/VACUUM RELIEF VALVE	1" BURMAD MODEL O2-ARC AND SFEARS 2121 SERIES PVC BALL VALVE	INSTALL AT HIGHEST LOCAL ELEVATION OF MAINLINE DOWNSTREAM OF 1" ISOLATION BALL VALVE. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	D2 / LI-34 D8, D9 / LI-34
	REMOTE CONTROL VALVE CPD MAINTAINED	HUNTER INDUSTRIES IBV-XXXG-F5-AS-ADJ (XXX=VALVE SIZE)	SIZE AS SHOWN. BRASS PRESSURE REGULATING REMOTE CONTROL VALVE FOR OVERHEAD SYSTEMS. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	D-SERIES LI-33, LI-34
	REMOTE CONTROL VALVE PRIVATE/HOA MAINTAINED	HUNTER INDUSTRIES ICV-XXXG-F5-AS-ADJ (XXX=VALVE SIZE)	SIZE AS SHOWN. PLASTIC PRESSURE REGULATING REMOTE CONTROL VALVE FOR OVERHEAD SYSTEMS. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	D-SERIES LI-33, LI-34
	QUICK COUPLER VALVE	HUNTER INDUSTRIES HQ-44RC-AW-R WITH HK-44A KEY AND H52 SWIVEL-1 KEY ASSEMBLY PER 10 GCV'S INSTALLED	INSTALL WHERE SHOWN (APPROX. 200' O.C. MAX) WITHIN 10" ROUND VALVE BOX. ACME THREADED WITH LOCKING PURPLE COVER. QUICK COUPLER TO BE FED BY A 1.5" LINE MIN. TO BE PAINTED WITH OMD APPROVED PURPLE AND INCLUDE P.O.C. I.D. AND R.M. WARNING TAGS.	D1 / LI-33 D9 / LI-34
NO SYMBOL	CONTROL WIRE AND CONDUIT	SEE SPECIFICATIONS	CONTROL WIRE WITHIN PVC SCH 40 CONDUIT WITH SNEEP FITTINGS. COMPLETE CONDUIT RUN CONTROLLER TO RCV TO FOLLOW IRRIGATION MAINLINE IN COMMON TRENCH WHENEVER POSSIBLE.	C-SERIES/LI-32 D-SERIES/LI-34
	FULL BOX	CONTRACTOR FABRICATED SEE DETAIL DRAWINGS AND SPECIFICATIONS	FULL BOXES TO BE INSTALLED IN CONDUIT RUNS IN EXCESS OF 200 FEET AND AT ROAD OR DRIVE CROSSINGS.	E-SERIES/LI-34 D8, D9 / LI-34
	PVC MAINLINE 3" AND SMALLER	PACIFIC PLASTICS CYCLE FLOW RECYCLED WATER PVC	1" - 1.5" = PVC SCH 40; 2" AND 3" = PVC CLASS 315 IV PVC SCH 80 DEEP BELL FITTINGS. (PURPLE PVC PIPE FOR USE WITH RECYCLED WATER)	C-SERIES LI-32, LI-33
	PVC LATERAL LINE (SUB-GRADE)	PACIFIC PLASTICS CYCLE FLOW RECYCLED WATER PVC	SIZED PER PLAN - .75" MINIMUM; PVC SCH 40 (PURPLE PVC PIPE FOR USE WITH RECYCLED WATER)	C-SERIES LI-32, LI-33
	PVC LATERAL LINE TRANSITION	PACIFIC PLASTICS CYCLE FLOW TO PACIFIC PLASTICS SOLAR PROOF	APPROXIMATE LOCATION OF SUB-GRADE TO ON-GRADE TRANSITION. (ON-GRADE SOLAR PROOF PIPE TO BE IDENTIFIED TO CONTAIN RECYCLED WATER)	C-SERIES LI-32, LI-33
	PVC LATERAL LINE (ON-GRADE)	PACIFIC PLASTICS SOLAR PROOF UVR PVC.	ALL PIPE SIZING IS BASED ON OPERATING WATER VELOCITIES NOT TO EXCEED 5 FEET PER SEC. CONTRACTOR TO PLACE R.M. WARNING LABELS EVERY 10 FEET ALONG THE LENGTH OF THE PIPE.	C-SERIES LI-32, LI-33
	SLEEVE MARKER	CONTRACTOR FABRICATED SEE DETAIL DRAWINGS AND SPECIFICATIONS	INSTALL OVER ENDS OF ALL PIPE SLEEVES AT ROAD OR DRIVE CROSSINGS AS DETAILED.	C-SERIES LI-32, LI-33
	PVC SLEEVE	PACIFIC PLASTICS CYCLE FLOW RECYCLED WATER PVC	PVC SCH 40; TWO TIMES DIA. OF PIPE OR WIRE BUNDLE. (3" MIN. - NON-VEHICULAR; 4" MIN. - VEHICULAR)	C-SERIES LI-32, LI-33
	RECYCLED WATER WARNING SIGN	T. CHRISTY ENTERPRISES MODEL# ID-SIGN-4 MOUNTED ON POST AS DETAILED.	SIGNS TO BE LOCATED APPROXIMATELY WHERE SHOWN ON PLANS. OR AS DIRECTED BY O.M.D. INSPECTOR.	R/M / T-2

**POTABLE WATER IRRIGATION EQUIPMENT LEGEND (FOR PRIVATE SLOPES)**

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS	DETAIL
	METER	POTABLE WATER METER BY OWNER OR BUILDER	SEE PLANS FOR DIAGRAMMATIC LOCATIONS OF ALL POINTS OF CONNECTION. SEE ALSO CIVIL DRAWINGS FOR EXACT SERVICE LINE LOCATIONS	B1 / LI-31 B12 / LI-32
	CONNECTION-PRIVATE LOT SYSTEMS	WILKINS 250 BALL VALVE AND WILKINS BR4 PRESSURE REGULATING VALVE	LOCATIONS SHOWN DIAGRAMMATICALLY. SEE CIVIL FOR SPECIFIC LOCATIONS. TO BE INSTALLED DOWNSTREAM OF SIDE OUTLET ON PRIVATE SERVICE LINE TO RESIDENCE AS DETAILED.	B1 / LI-31 B12 / LI-32
	REMOTE CONTROL VALVE PRIVATE LOT SYSTEMS	IRRITROL 2600TF	1" REMOTE CONTROL VALVE FOR PRIVATE LOT SLOPES INSTALLED UPSTREAM OF ATMOSPHERIC VACUUM BREAKER. INSTALL RCV ASSEMBLY WITH CONTROLLER I.D. TAG TO EQUAL LOT NUMBER.	G1, G2 LI-35
	ATMOSPHERIC VACUUM BREAKER	CHAMPION	INSTALL DOWNSTREAM OF CONTROL VALVE AT SUBMAIN TO LATERAL LINE CONNECTION. A.V.B. TO BE INSTALLED ON RISERS SO THAT DEVICE IS 12" ABOVE HIGHEST DOWNSTREAM OUTLET.	G1, G2 LI-35
	PVC MAINLINE PIPE	PACIFIC PLASTICS SOLVENT WELD PIPE	PVC SCH 40; 1-1/4" MINIMUM (SEE PRODUCT SPECIFICATION SHEET LI-20 SECTION 2.15) (WHITE PVC PIPE FOR USE WITH POTABLE WATER)	C-SERIES LI-32, LI-33
	PVC LATERAL LINE PIPE	PACIFIC PLASTICS SOLVENT WELD PIPE	PVC SCH 40; 3/4" MINIMUM (SEE PRODUCT SPECIFICATION SHEET LI-20 SECTION 2.15) (WHITE PVC PIPE FOR USE WITH POTABLE WATER)	C-SERIES LI-32, LI-33
	PVC SLEEVE	PACIFIC PLASTICS SOLVENT WELD PIPE	PVC SCH 40; TWO TIMES DIA. OF PIPE OR WIRE BUNDLE. (3" MIN.) (WHITE PVC PIPE FOR USE WITH POTABLE WATER)	C-SERIES LI-32, LI-33

**NOTE:**  
REFER TO ADDITIONAL SPECIFICATIONS SECTION 15152 OF WATER AGENCY STANDARDS. ALL SPRINKLERS, VALVE BOXES AND VALVES FOR THE DISTRIBUTION OF RECYCLED WATER WITH EXTERIOR EXPOSURE ARE TO BE PURPLE. SPRINKLERS, VALVE BOXES AND VALVES CONNECTED TO A POTABLE WATER SOURCE ARE TO BE GREEN OR WITHOUT PURPLE MARKINGS. DECALS AND/OR ADHESIVE LABELS ON RISERS ARE NOT ACCEPTABLE.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
\*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
\*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

**OTAY WATER DISTRICT**  
PROJECT NO. 20944-060189  
PZ. 624, 711 RFPZ 620  
REVIEWED BY: [Signature] DATE: 06/21/18  
SIGNATURE EXPIRES AFTER 1 YEAR

**IT'S THE LAW! DIAL BEFORE YOU DIG!**  
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

**"AS-BUILT"**  
SGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_



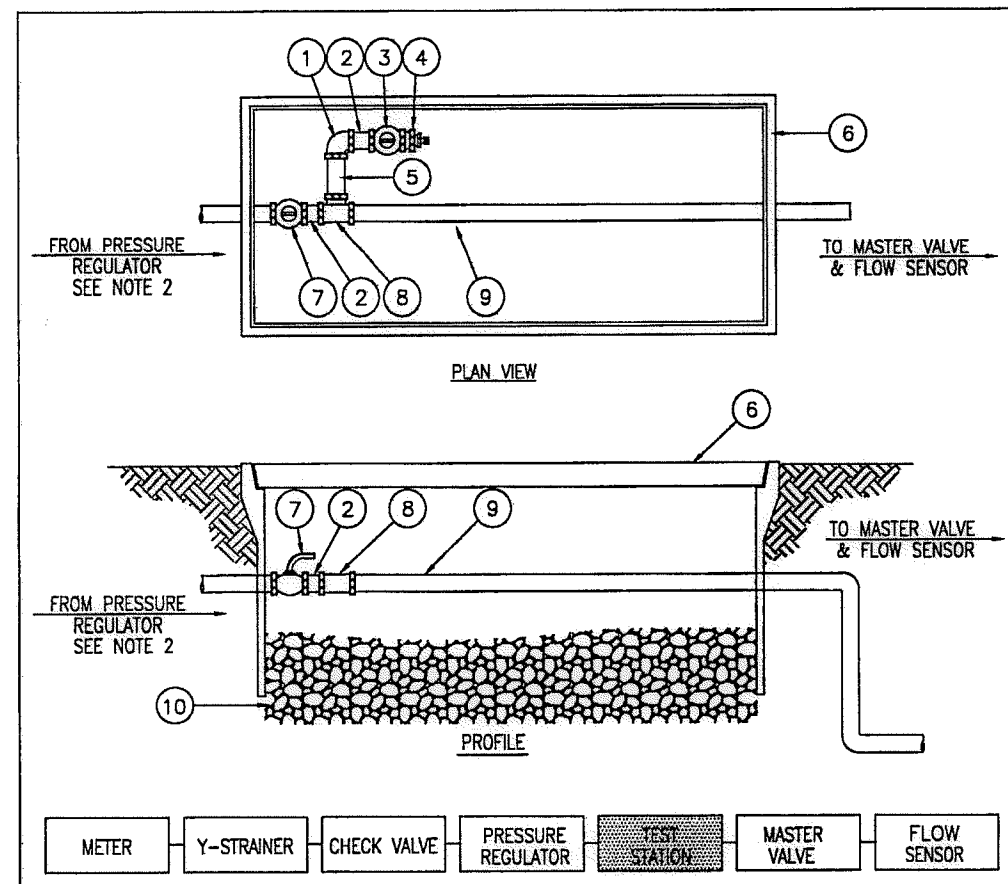
**Tributary LA, Inc.**  
2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office  
760.434.9303 fax

DATE: 15 FEB 18  
SCALE: NO SCALE  
JOB NO. 15024  
DRAWN BY: T.P./T.G.  
W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	APPROVED	CITY OF CHULA VISTA	Drawing No.
Contractor _____ Inspector _____ Date Completed _____	16026-01 - 16026-93	HUNSAKER & ASSOC.	Add on-grade pipe and pipe labels to legend and details.	7/3/18	[Signature]	BENCH MARK: BENCH MARKED "SU CITY ENGR." IN 3/4" DIA. OR ROCK MOUNTAIN 100' DISTANCE FROM 1.5 MILES EAST OF MIX OF MAIN ST. & HERITAGE BLVD. AT HIGH BOLLIER & 1700' SOUTHERLY OF WATER STORAGE FACILITY (774 1359 PER R.O.S. 14841) ELEV=629.319' (NAD83)	Horizontal Vertical N/A	Field Traffic	[Signature]	[Signature]	[Signature]	Approved: <u>[Signature]</u> Date: <u>8-31-18</u> Kelly Broughton Director of Development Services or designee.	LANDSCAPE IRRIGATION EQUIPMENT LEGEND AND NOTES FOR <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 40 Sheet 40 of 88

Print Date: 15 FEB 18 OWD WO# D0944-060189 Otay Ranch, Village 3 - Slope & Erosion Control



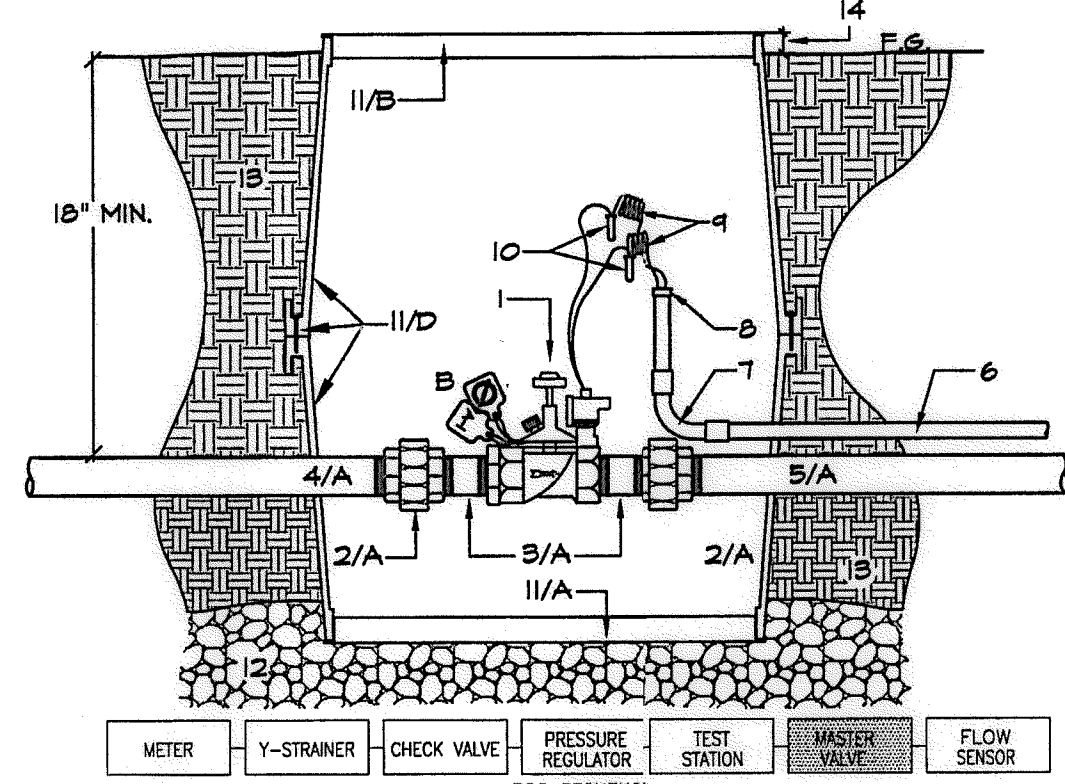


NOTES:  
1) REFER TO SECTION 15151 AND 15152 OF THE SPECIFICATIONS  
2) INSTALL ONE TEST STATION LOCATED DIRECTLY DOWNSTREAM OF IRRIGATION CHECK AND PRESSURE REGULATING VALVE PER WR-03  
3) SECOND CROSS CONNECTION TEST STATION INSTALLED AT FAR END OF ON-SITE MAINLINE  
4) BRAND "TS" ON PLASTIC TEST STATION LIDS

ITEM NO.	SIZE AND DESCRIPTION	ITEM NO.	SIZE AND DESCRIPTION
1	19 mm (3/4") SCH 80 PVC 90 ELL	1	19 mm (3/4") SCHEDULE 80 BRASS NIPPLE
2	19 mm (3/4") SCH 80 BRASS CLOSE NIPPLE	6	VALVE BOX WITH PURPLE COLORED LID
3	19 mm (3/4") BRASS LOCKABLE BALL VALVE	7	LINE SIZED BRASS BALL VALVE
4	R/R X METER SWIVEL	8	LINE SIZE BY 19mm (3/4") SCH 80 TEE
5	19mm X 5mm (3/4" X 1/4") BRASS THREADED BUSHING WITH 6.3mm (1/4") CAPPED OUTLET	9	TYPE "C" COPPER OR BRASS PIPE ONLY
	25mm (1") AND 50mm (2") RECYCLED WATER IRRIGATION CROSS CONNECTION TEST STATION	10	150mm (6") BASE OF 10mm (3/8") ROCK

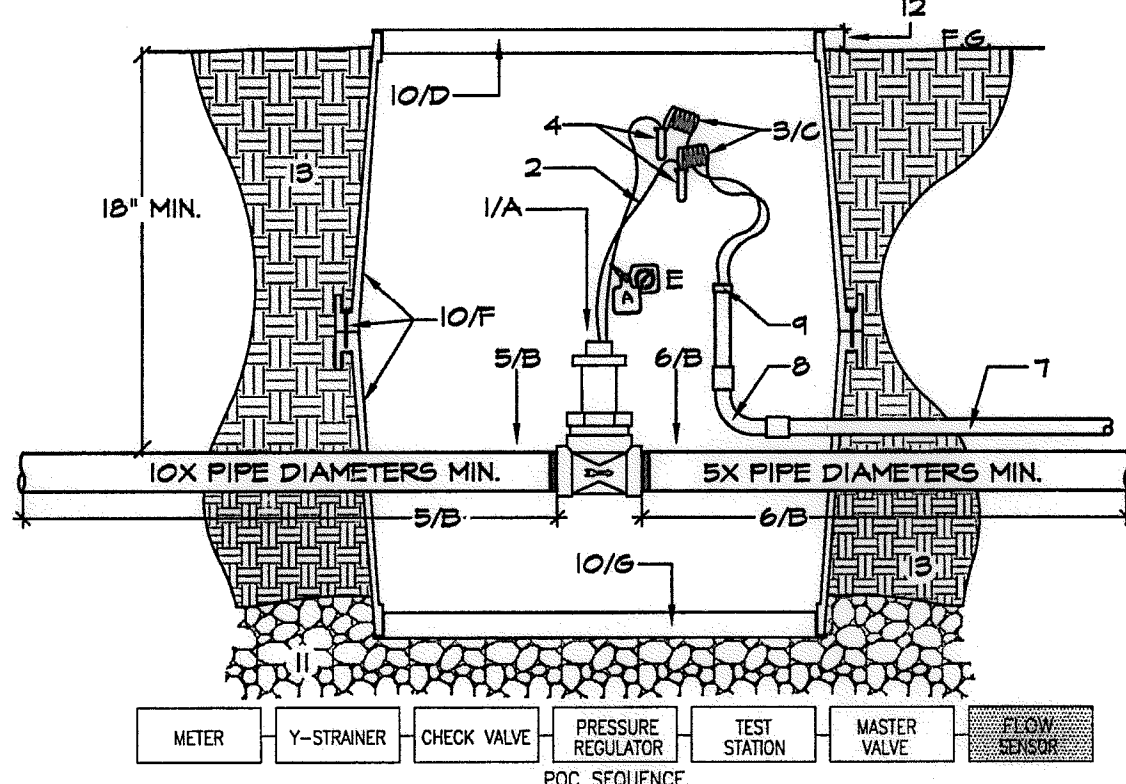
WATER AGENCIES STANDARDS  
COMMITTEE APPROVAL: 11/09/2006  
DRAWING NUMBER: WR-04

**B5** RECYCLED WATER CROSS CONNECTION TEST STATION SECTION - NO SCALE



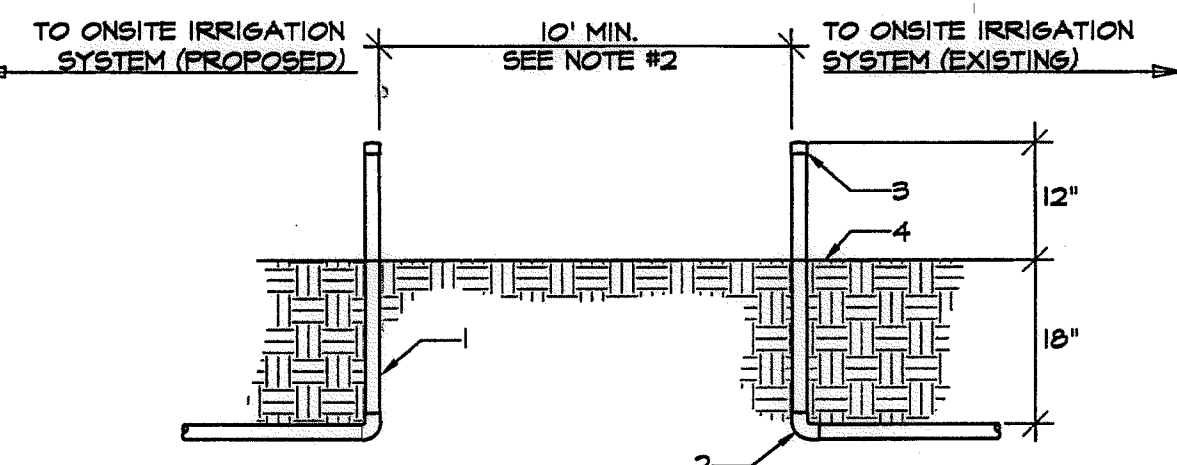
- 1- MASTER CONTROL VALVE-SIZED EQUAL TO METER SIZE  
2- BRASS UNION - VALVE SIZE  
3- BRASS NIPPLE - VALVE SIZE - L.A.R.  
4- BRASS PIPE FROM TEST STATION-SINGLE SECTION, THREADED.  
5- BRASS PIPE TO FLOW SENSOR-SINGLE SECTION, THREADED.  
6- 1/2" FVC SCH 80 ELECT. CONDUIT FROM FILL BOX AT CONTROLLER  
7- 1/2" FVC SCH 80 ELECT. CONDUIT SWEEP ELL.  
8- 1/2" FVC SCH 80 CONDUIT BUSHING.  
9- CONTROL WIRES- M/V STATION WIRE AND COMMON COIL EACH W/ 4' EXTRA WIRE.  
10- WATERPROOF WIRE SPLICES- 3M DBY.  
11- STANDARD RECT. DURA DRI-BOX- #12-DB-2-DS W/ PURPLE LOCKING LID.  
12- 3/8" GRAVEL SUMP AND LEVELING PAD, 3" DEEP MINIMUM.  
13- UNDISTURBED/COMPACTED SUBGRADE.  
14- FLUSH IN TURF, 1" IN GROUND COVER.
- NOTES:  
A. METALLIC PIPE TO BE SCH 40 IPS THREADED YELLOW BRASS. METALLIC FITTINGS TO BE CLASS 150 LBS YELLOW BRASS.  
B. VALVE BOX LID SHALL BE BRANDED AS SHOWN IN VALVE BOX INSTALLATION AND IDENTIFICATION DETAIL DRAWING. CONTRACTOR SHALL INCLUDE A CHRISTY'S R/J. MARKING TAG AND IRRIGATION I.D. TAG INDICATING CONTROLLER AND MASTER CONTROL VALVE. MARKING TAGS TO BE IN ENGLISH AND SPANISH. TAGS SHALL BE ATTACHED TO VALVE BONNET BOLT.  
C. TWO VALVE BOXES, BOTTOMS FACE-TO-FACE, ATTACHED WITH STAINLESS STEEL COARSE THREADED SCREWS- ONE AT EACH CORNER.  
D. GASKETS AT LID OF INVERTED VALVE BOX REMOVED TO ALLOW DRAINAGE.

**B6** MASTER CONTROL VALVE SECTION - NO SCALE



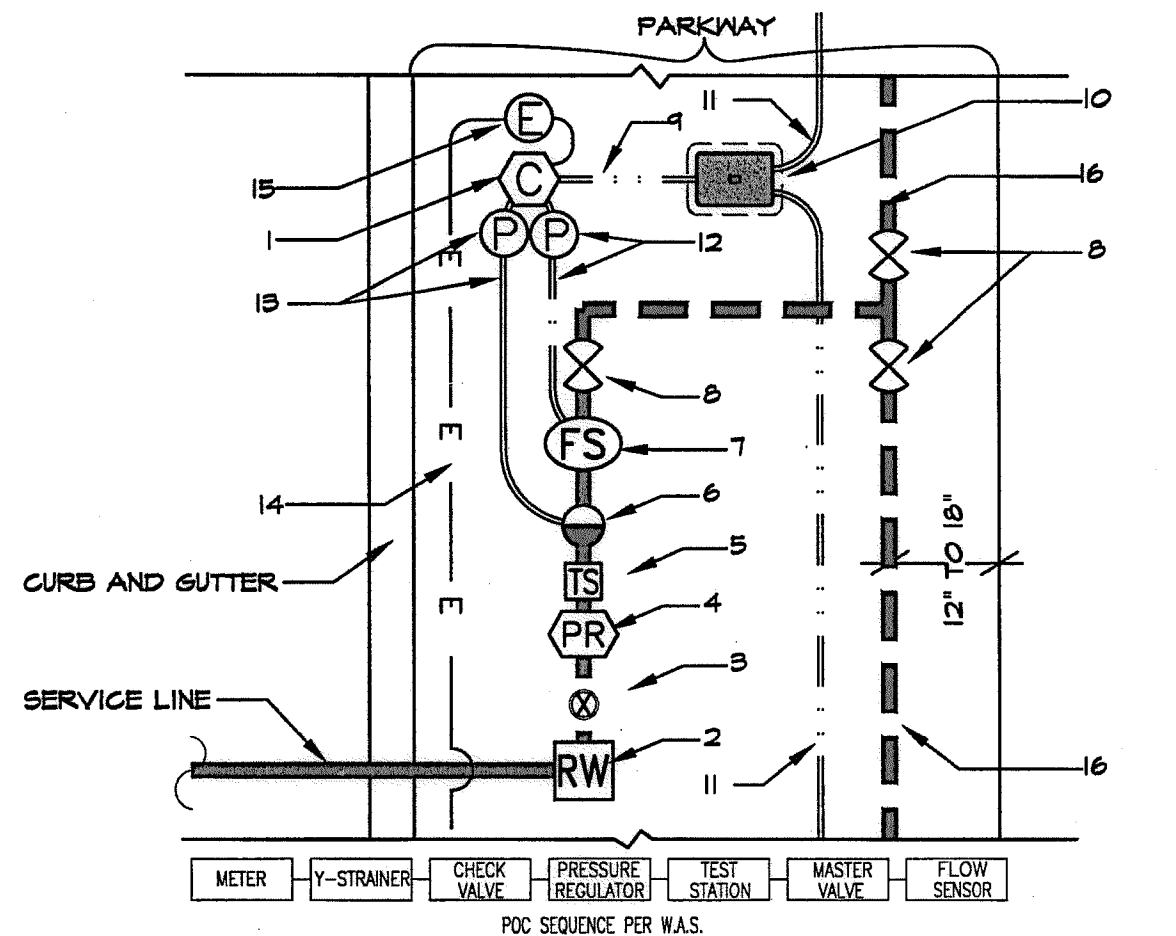
- 1- FLOW SENSOR AS PART OF CONTROLLER ASSEMBLY- SIZED EQUAL TO METER SIZE  
2- SENSOR WIRE LEADS  
3- COMM. CABLE FROM CONTROLLER-COIL W/ 4' EXTRA WIRE  
4- WATERPROOF CONNECTORS- 3M DBY.  
5- BRASS PRESSURE MAIN FROM MASTER CONTROL VALVE, SIZED EQUAL TO METER SIZE  
6- BRASS PRESSURE MAIN FOR REQUIRED LENGTH SIZED EQUAL TO FLOW SENSOR.  
7- 1/2" IN. FVC SCH 80 ELECTRICAL CONDUIT FROM CONTROLLER ENCLOSURE.  
8- 1/2" IN. FVC SCH 80 SWEEP ELL.  
9- 1/2" IN. FVC SCH 80 CONDUIT BUSHING.  
10- STANDARD RECT. DURA DRI-BOX- #12-DB-2 W/ PURPLE LOCKING LID.  
11- 3/8" GRAVEL LEVELING PAD, 3" DEEP MINIMUM.  
12- AT FINISH GRADE IN TURF, 1" IN SHRUB AREA.  
13- UNDISTURBED OR COMPACTED SUBGRADE.
- NOTE:  
A. FOLLOW MANUFACTURERS DIRECTIONS FOR CORRECT INSTALLATION.  
B. NO SIZE OR DIRECTION CHANGE WITHIN 10x PIPE DIAMETER UPSTREAM AND 5x PIPE DIAMETER DOWNSTREAM OF SENSOR.  
C. COMMUNICATION CABLE SHALL BE TWO CONDUCTOR, SHIELDED CABLE AEF 1516-25P.  
D. VALVE BOX LID SHALL BE BRANDED AS SHOWN IN VALVE BOX INSTALLATION AND IDENTIFICATION DETAIL DRAWING.  
E. CONTRACTOR SHALL INCLUDE A CHRISTY'S R/J. MARKING TAG AND STATION I.D. TAG INDICATING CONTROLLER AND FLOW SENSOR. RECYCLED WATER MARKING TAGS AND TO BE IN ENGLISH AND SPANISH.  
F. TWO VALVE BOXES, BOTTOMS FACE-TO-FACE, ATTACHED WITH STAINLESS STEEL COARSE THREADED SCREWS- ONE AT EACH CORNER.  
G. GASKETS AT LID OF INVERTED VALVE BOX REMOVED TO ALLOW DRAINAGE.

**B7** FLOW SENSOR SECTION - NO SCALE



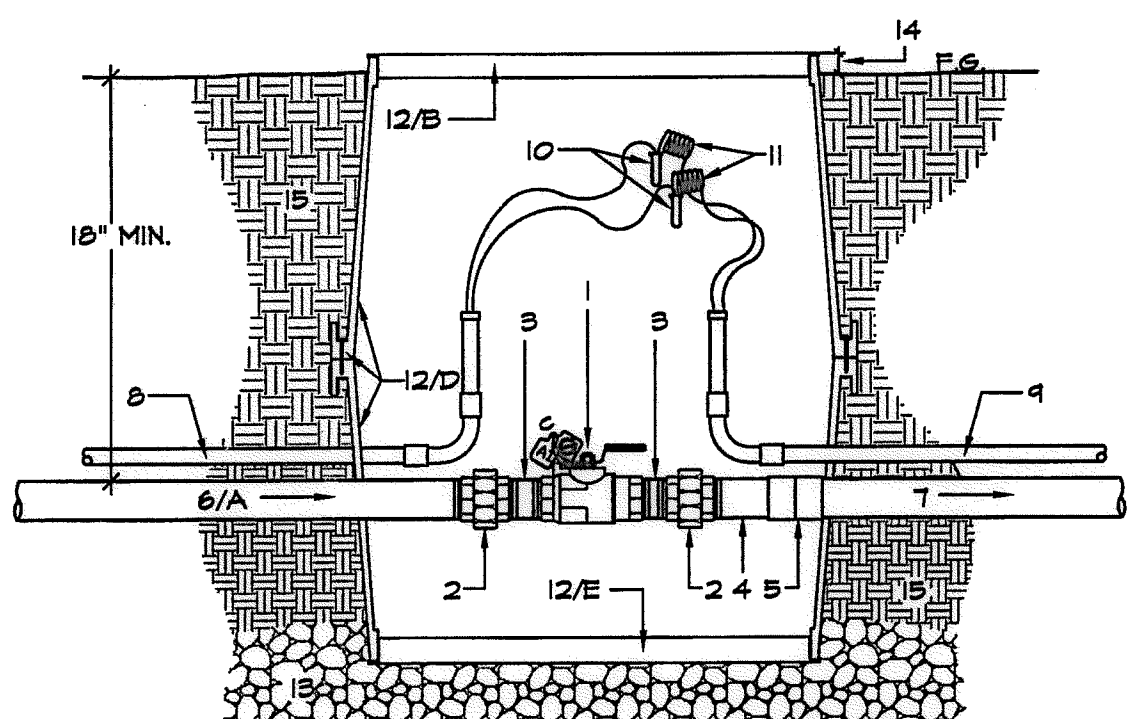
- 1- PROPOSED IRRIGATION MAINLINE- SEE NOTE #8  
2- EXISTING IRRIGATION MAINLINE  
3- STUB-OUT WITH SOLWELD WELD CAP  
4- EXISTING GRADE
- NOTES:  
1. STUB-OUTS SHALL BE VISIBLE AT ALL TIMES- MINIMUM 12" ABOVE EXISTING GRADE.  
2. MAINTAIN 10 FOOT MINIMUM SEPARATION BETWEEN EXISTING AND PROPOSED IRRIGATION SYSTEMS AT ALL TIMES DURING CONSTRUCTION.  
3. CONTRACTOR SHALL SATISFY ALL REQUIREMENTS OF THE SD WAS STANDARD SPECIFICATIONS AND DRAWINGS PRIOR TO SCHEDULING FINAL CONNECTION WITH OTAY WATER DISTRICT.  
4. CONTRACTOR SHALL PERFORM FINAL CONNECTION WITH DISTRICT REPRESENTATIVE 3) PRESENT AT TIME OF FINAL CONNECTION BETWEEN EXISTING AND PROPOSED IRRIGATION SYSTEMS.
- MAS - STANDARD SPECIFICATIONS FOR POTABLE WATER, RECYCLED WATER AND SEWER FACILITIES. WATER AGENCY STANDARDS COMMITTEE.

**B8** TIE-IN SEPARATION SECTION - NO SCALE



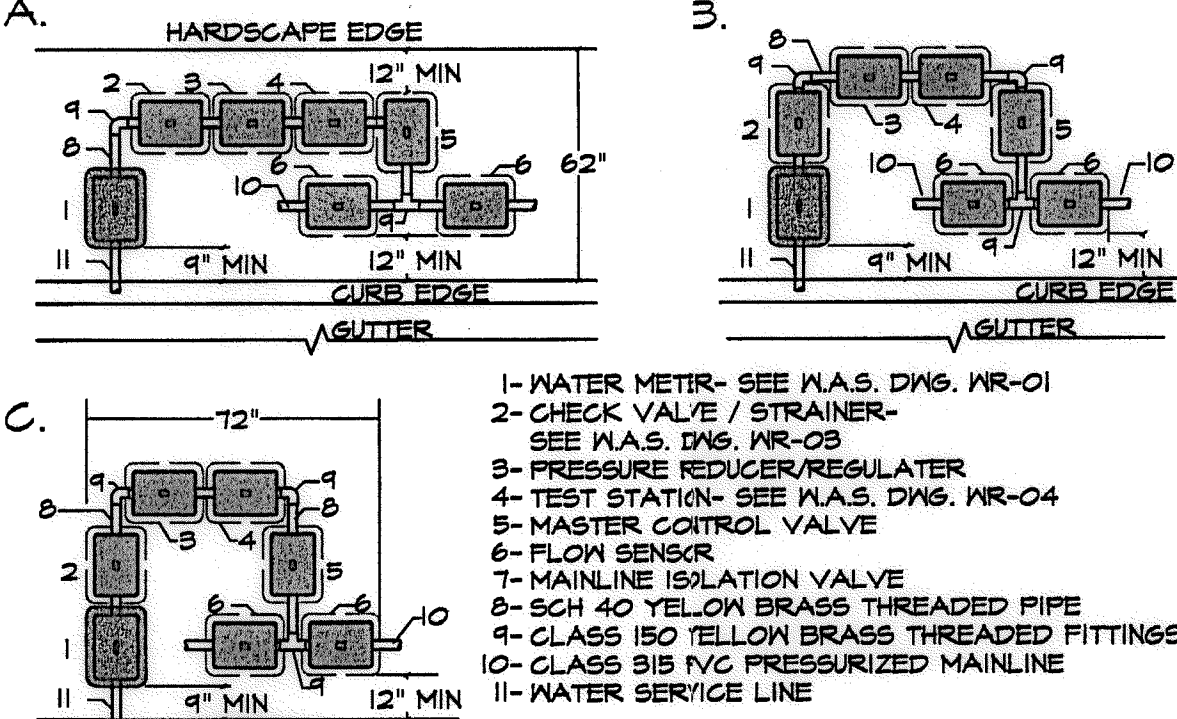
- 1- IRRIGATION CONTROLLER. SEE CONTROLLER DETAIL-SECTION VIEW.  
2- WATER METER-M.A.S. WR-02  
3- STRAINER/CHECK VALVE-M.A.S. WR-03  
4- PRESSURE REGULATOR  
5- TEST STATION-M.A.S. WR-04  
6- MASTER CONTROL VALVE  
7- FLOW SENSOR  
8- MAINLINE ISOLATION VALVES  
9- CONTROL WIRE CONDUIT TO FILL BOX.  
10- CONTROL WIRE FULL BOX- STD. REC.  
11- CONTROL WIRE IN CONDUIT TO RCV'S  
12- 1" CONDUIT AND 12" ROUND FULL BOX FOR FLOW SENSOR.  
13- 1" CONDUIT AND 12" ROUND FULL BOX FOR MCV.  
14- 1-1/4" CONDUIT FROM METER - 120 VAC  
15- 120 VAC ELECTRICAL HAND HOLE.  
16- IRRIGATION MAINLINE TO REST OF THE SYSTEMS.
- NOTE: ALL CONTROL WIRE CONDUIT TO BE SIZED BY THE CONTRACTOR AND APPROVED BY THE CITY INSPECTOR. SCHEMATIC DRAWING ILLUSTRATES CONCEPT OF CONNECTIONS. ARRANGEMENT, SIZES AND DISTANCES WILL DEPEND ON SPECIFIC CONDITIONS AND VARY FROM PROJECT TO PROJECT. PER CITY OF CHULA VISTA. ALL PLUMBING TO THE FIRST ISOLATION GATE VALVE TO BE BRASS. M.A.S. WATER AGENCY STANDARDS.

**B9** POC AND CONTROL EQUIPMENT, ELECTRICAL CABLE, CONTROL WIRE ROUTING SCHEMATIC SECTION - NO SCALE



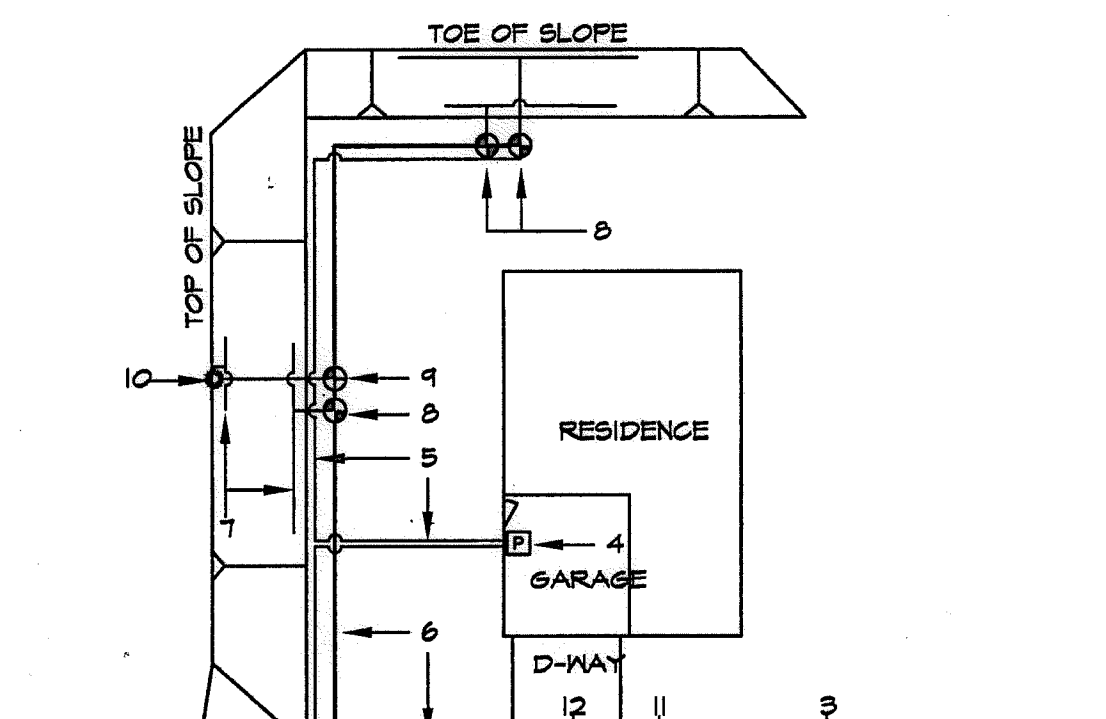
- 1- BALL VALVE  
2- BRASS UNION - VALVE SIZE  
3- FVC SCH 80 NIPPLE - T.O.E.  
4- FVC SCH 80 NIPPLE - T.O.E.  
5- FVC SCH 80 SS COUPLING-MAINLINE SIZE  
6- BRASS PRESSURE MAIN FROM FLOW SENSOR, SIZED EQUAL TO METER SIZE  
7- FVC PRESSURE MAIN TO IRRIGATION SYSTEM - SIZE PER PLAN  
8- FVC SCH 40 ELECTRICAL CONDUIT FROM CONTROLLER - SIZED AS REQUIRED FOR CABLE- 1-1/4" MINIMUM.  
9- FVC SCH 40 ELECTRICAL CONDUIT ON A CONTINUE RUN - SIZED AS REQUIRED FOR CABLE- 1-1/4" MINIMUM.  
10- WIRE SPLICE - 3M DBY. IF REQUIRED  
11- CONTROL WIRES WITH SPARE STATION WIRES LOOPEED INTO EACH ISOLATION VALVE BOX ON RUN.  
12- STANDARD RECT. DURA DRI-BOX- #12-DB-2 W/ PURPLE LOCKING LID.  
13- 3/8" GRAVEL LEVELING PAD, 3" DEEP MINIMUM.  
14- AT FINISH GRADE IN TURF, 1" IN SHRUB AREA.  
15- UNDISTURBED OR COMPACTED SUBGRADE.
- NOTE:  
A. METALLIC PIPE TO BE SCH-40 IPS THREADED YELLOW BRASS. METALLIC FITTINGS TO BE CLASS 150 LBS YELLOW BRASS.  
B. VALVE BOX LID SHALL BE BRANDED AS SHOWN IN VALVE BOX INSTALLATION AND IDENTIFICATION DETAIL DRAWING.  
C. CONTRACTOR SHALL INCLUDE A CHRISTY'S R/J. MARKING TAG AND STATION I.D. TAG INDICATING CONTROLLER AND BALL VALVE. RECYCLED WATER MARKING TAGS AND TO BE IN ENGLISH AND SPANISH.  
D. TWO VALVE BOXES, BOTTOMS FACE-TO-FACE, ATTACHED WITH STAINLESS STEEL COARSE THREADED SCREWS- ONE AT EACH CORNER.  
E. GASKETS AT LID OF INVERTED VALVE BOX REMOVED TO ALLOW DRAINAGE.

**B10** BALL VALVE FOR MAINLINE ISOLATION DOWNSTREAM OF P.O.C. WITH CONTROL WIRE IN CONDUIT SECTION - NO SCALE



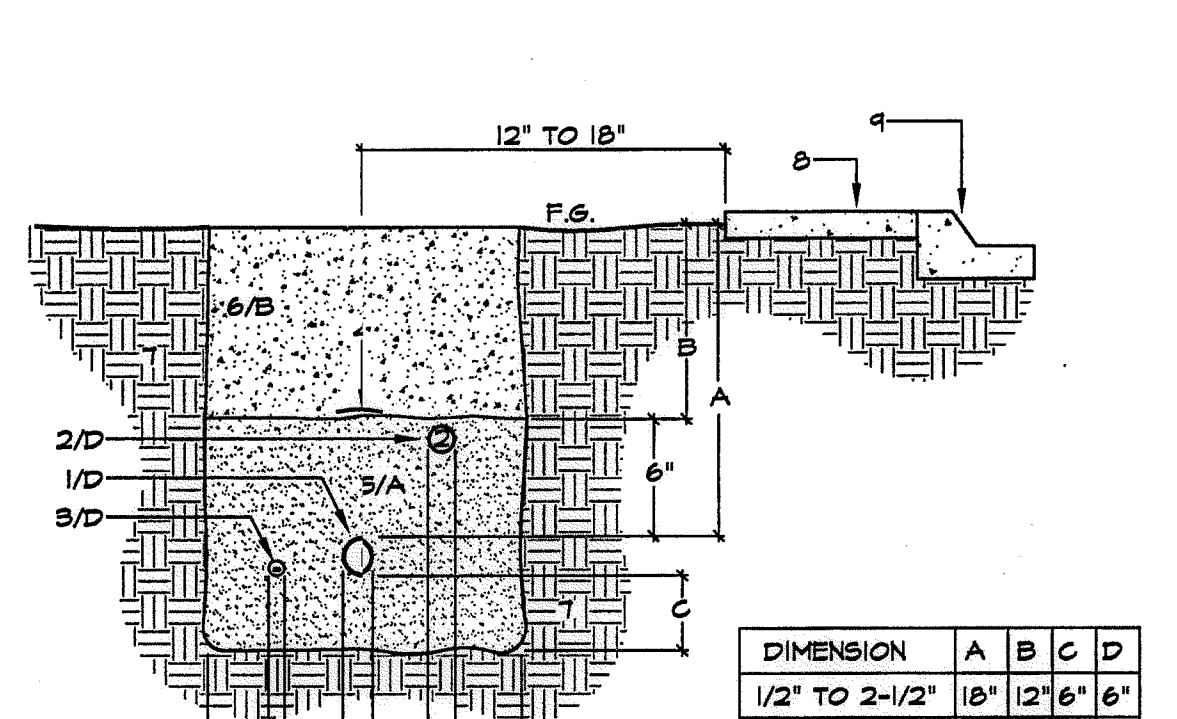
- 1- WATER METER- SEE M.A.S. DWS. WR-01  
2- CHECK VALVE / STRAINER- SEE M.A.S. DWS. WR-03  
3- PRESSURE REDUCER/REGULATOR  
4- TEST STATION- SEE M.A.S. DWS. WR-04  
5- MASTER CONTROL VALVE  
6- FLOW SENSOR  
7- MAINLINE ISOLATION VALVE  
8- SCH 40 YELLOW BRASS THREADED PIPE  
9- CLASS 150 YELLOW BRASS THREADED FITTINGS  
10- CLASS 150 PVC PRESSURIZED MAINLINE  
11- WATER SERVICE LINE
- NOTE:  
A- VERTICALLY EFFICIENT BOX PLACEMENT  
B- TYPICAL BOX PLACEMENT (I.E. SYMMETRICAL BOX PLACEMENT)  
C- HORIZONTALLY EFFICIENT BOX PLACEMENT  
D- ALL PLUMBING FROM THE METER TO THE FIRST ISOLATION VALVE/S TO BE SCH 40 IPS THREADED YELLOW BRASS. ALL METALLIC FITTINGS TO BE CLASS 150 LBS YELLOW BRASS.  
E- ALL PLUMBING DOWNSTREAM OF THE FIRST ISOLATION VALVE/S TO BE FVC AS DESCRIBED IN THE IRRIGATION LEGEND, NOTES AND SPECIFICATIONS.  
F- ALL METALLIC PLUMBING AND INCLUDED APPURTENANCE TO BE SIZED EQUAL TO METER SIZE.

**B11** SUGGESTED POINT OF CONNECTION ARRANGEMENT SCHEMATIC



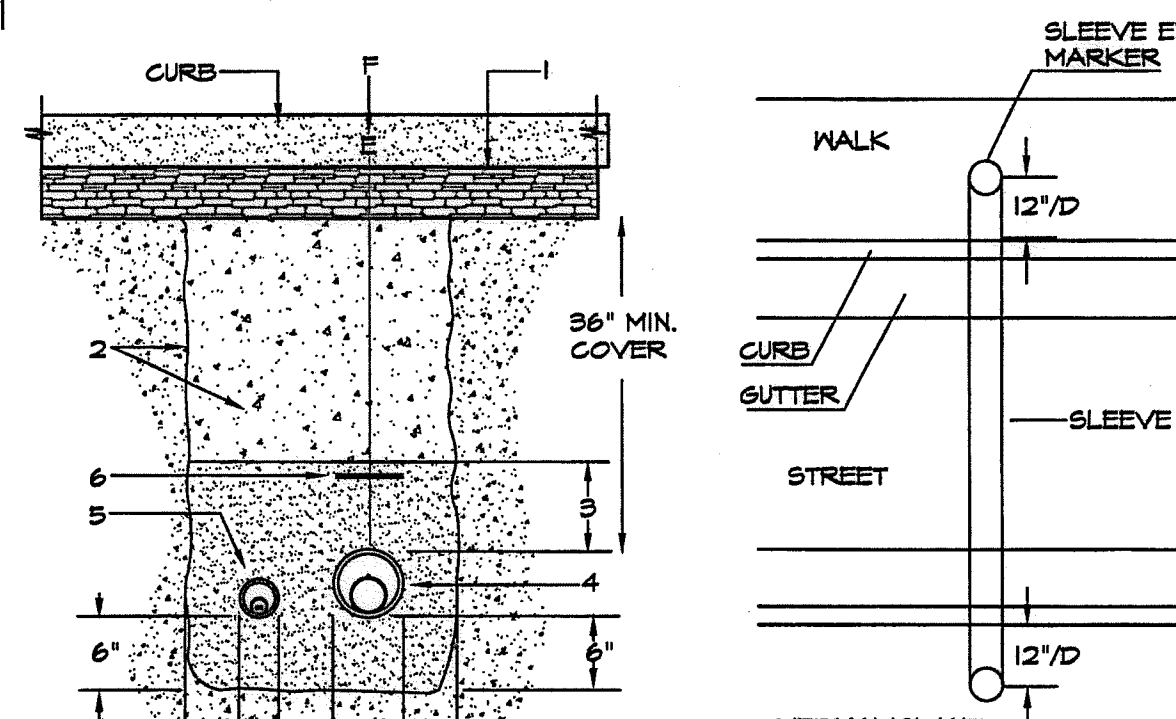
- 1- WATER METER  
2- SERVICE LINE  
3- P.O.C.-ISOLATION BALL VALVE WITH PRESSURE REGULATOR (MAINLINE SIZE)  
4- CONTROLLER - INSIDE GARAGE NEAR SERVICE DOOR AND POWER SOURCE - COORDINATE ON-SITE  
5- CONTROL WIRE PATH  
6- IRRIGATION MAINLINE  
7- LATERAL LINE (T.P.)  
8- REMOTE CONTROL ANTI-SIPHON VALVE  
9- REMOTE CONTROL ANGLE VALVE  
10- ATMOSPHERIC VACUUM BREAKER  
11- STUB-OUT FOR FUTURE USE  
12- SLEEVED DRIVE CROSSING
- NOTE:  
A. MAINLINE SHALL BE ROUTED 18" FROM TOE OF SLOPE AND 36" FROM TOP OF SLOPE AND SHALL NOT CUT ACROSS THE LOT.  
B. SPARE CONTROL WIRES SHALL BE ROUTED THROUGH ALL VALVE MANIFOLDS AND/OR STUB-OUT.  
C. MAINLINE SHALL BE SIZED ACCORDINGLY:  
1" FOR FLOWS TO 12 G.P.M.  
1-1/4" FOR FLOWS TO 20 G.P.M.  
1-1/2" FOR FLOWS TO 30 G.P.M.  
D. REGULATOR AND ISOLATION VALVE SHALL BE MAINLINE SIZE.

**B12** TYPICAL SYSTEM LAYOUT FOR PRIVATE LOT IRRIGATION WITH SLOPE CONDITIONS SECTION - NO SCALE



- 1- R/J. IRRIGATION MAINLINE  
2- R/J. IRRIGATION LATERAL LINE  
3- DECODER CABLE AND/OR CONTROL WIRES IN FVC SCH 40 ELECTRICAL CONDUIT  
4- R/J. MARKING TAPE 3" WIDE  
5- SAND BEDDING- OF APPROVED NATIVE SOIL.  
6- CLEAN BACKFILL- APPROVED NATIVE SOIL.  
7- UNDISTURBED NATIVE SOIL  
8- SIDEWALK  
9- CURB AND GUTTER
- NOTE:  
E. PRESSURE MAINLINE SHALL BE INSTALLED ON A 6" SAND BED & COVERED BY 6" OF SAND PRIOR TO ANY OTHER BACKFILL MATERIAL.  
F. SEE SPECIFICATIONS FOR APPROVED BACKFILL AND OTHER REQUIREMENTS.  
G. IRRIGATION PIPE LINES SHOWN DIAGRAMMATICALLY. PIPE SHALL BE INSTALLED 12" TO 18" FROM WALK OR CURB.  
H. PIPE AND CONDUIT TO BE INSTALLED IN SLEEVES UNDER ALL PAVING AND EXTEND 12" PAST EDGE OF PAVING. DECODER CABLE AND/OR CONTROL WIRE TO BE INSTALLED IN FVC SCH 40 ELECTRICAL CONDUIT AND BE AT INCREASED DEPTH UNDER PAVING AS FOLLOWS:  
SLEEVES AND CONDUIT UNDER PAVING TO BE:  
-30" TO 36" COVER UNDER ROADS AND DRIVES.  
-18" TO 24" COVER UNDER WALKS.

**C1** TRENCHING SECTION - NO SCALE



- 1- PAVING SURFACE BY OTHERS.  
2- REFER TO ENGINEER FOR SPECIFIC MATERIAL AND COMPACTION REQUIREMENTS.  
3- SAND BEDDING- PER CIVIL ENG. REQUIREMENTS.  
4- R/J. PRESSURE MAIN LINE WITH TRACER WIRE AND WITHIN SLEEVE  
5- LOW VOLTAGE CONTROL WIRES IN CONDUIT WITHIN SLEEVE  
6- DETECTABLE R/W MARKING TAPE - 3" WIDE T. CHRISTY'S MOD. # TA-DA-3-PRM
- THIS DRAWING SHOWS RELATIVE PIPE DEPTHS AND SLEEVE MARKING ONLY. BACKFILL MATERIAL, COMPACTION REQUIREMENTS, ROAD BED REQUIREMENTS SHALL BE ACCORDING TO CIVIL PLANS.
- NOTE:  
A. TRACER WIRE TAPED TO TOP OF MAINLINE AT 3' INTERVALS.  
B. ALL SLEEVES TO BE FVC SCH 40 PIPE  
C. USE R/J. PURPLE PIPE FOR PIPE SLEEVES.  
D. ALL SLEEVES TO BE SIZED TWICE THE DIA. OF INTERNAL PIPE (2" MIN) SLEEVING FOR UNDER VEHICULAR PAVING TO BE 4" MINIMUM.  
E. ALL SLEEVES TO RUN A MIN. OF 12" TO 18" BEYOND HARDSCAPE EDGES.  
F. SLEEVE ENDS SHALL BE MARKED WITH 10" ROUND VALVE BOX WITH PURPLE LOCKING COVER.  
G. ETCH THE LETTER "E" INTO CURB DIRECTLY ABOVE THE SLEEVE. SEE ALSO SLEEVE MARKER DETAIL DRAWINGS.

**C2** PIPE AND WIRE UNDER PAVING SECTION - NO SCALE

**R/J. IDENTIFICATION BY COLOR CODING:**  
SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
\*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
\*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

OTAY WATER DISTRICT  
PROJECT NO. D0944-060189  
624, 711 RPZ\_680  
REVIEWED BY: [Signature] DATE: 5/11/17  
SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

"AS-BUILT"  
SIGNED: [Signature] DATE: [Blank]  
PRINT NAME: [Blank] R.L.A. # [Blank]  
DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. [Blank]

REGISTERED LANDSCAPE ARCHITECT  
THOMAS A. PICARD  
9/5/17  
CALIFORNIA

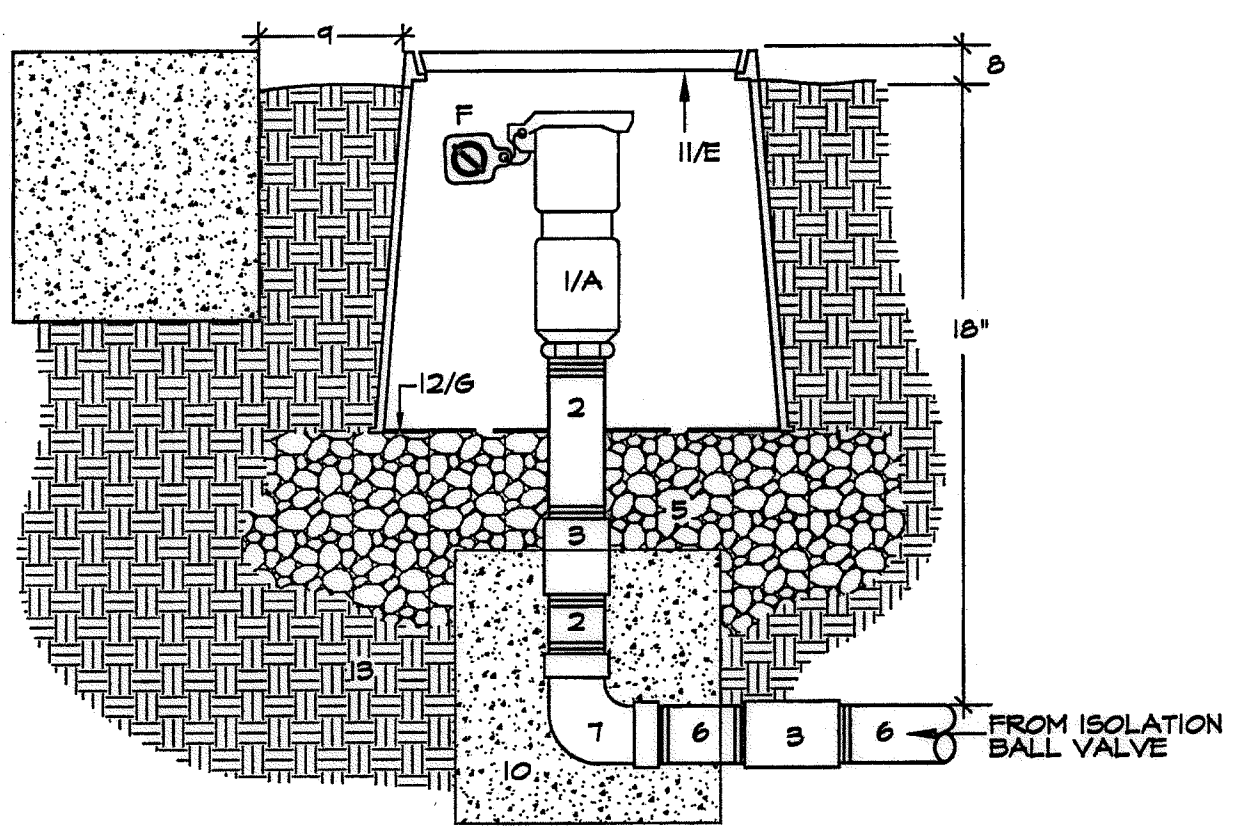
Tributary LA, Inc.  
2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office  
760.434.9303 fax

DATE: 10 APR '17  
SCALE: NO SCALE  
JOB NO. 15024  
DRAWN BY: T.P./T.G.  
W.O. NO. OR-3001G

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	Date:	DRAWING No.	
	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "SD CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1/2 MILES EAST OF INTX OF MAIN ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EASTERY OF PROMONT 10' HIGH BOULDER & 1700' SOUTHWEST OF WATER STORAGE FACILITY. (DTF 1359 PER R.O.S. 1484) ELEV-629.310' (NAD 83)	Horizontal N/A Vertical N/A		Plans Prepared Under Supervision Of Date: [Blank] Traffic	THOMAS A. PICARD	[Blank]	[Blank]	[Signature] Kelly Broughton Director of Development services or designee.	5-15-17	16050 - 42 Sheet 42 of 88

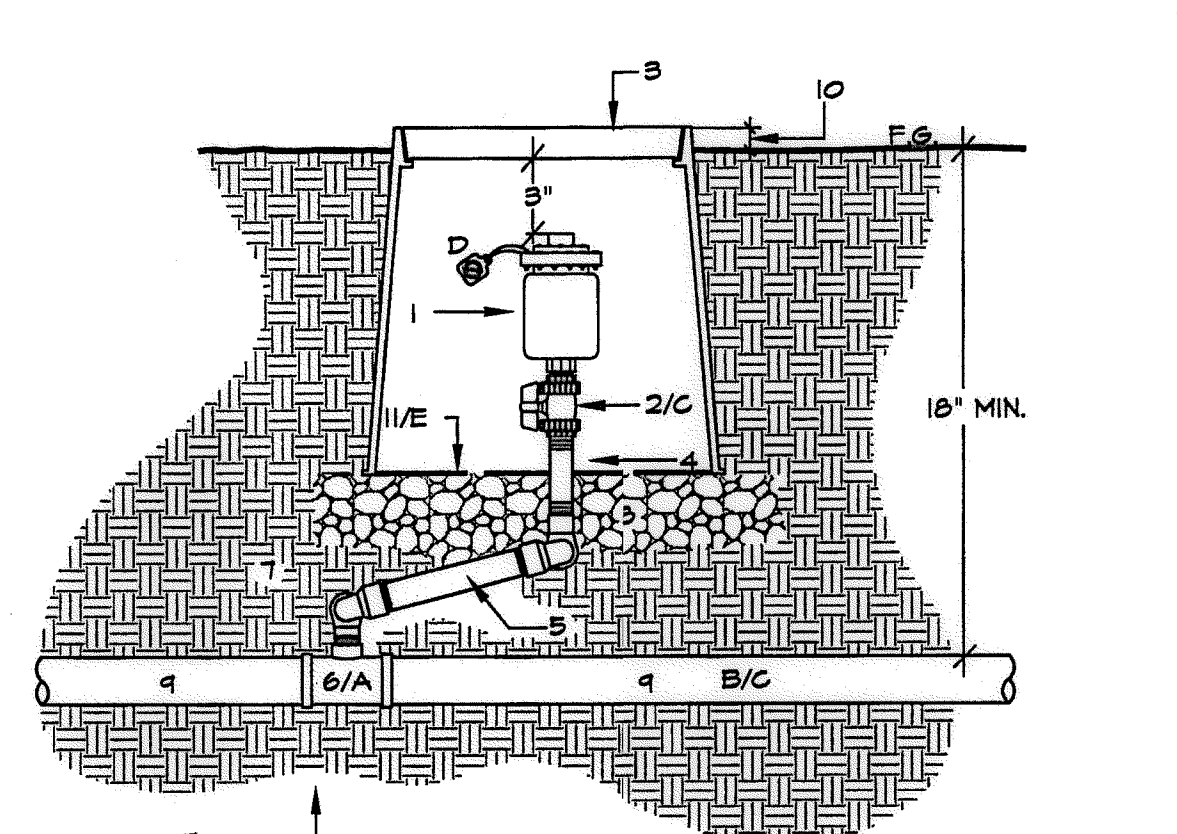






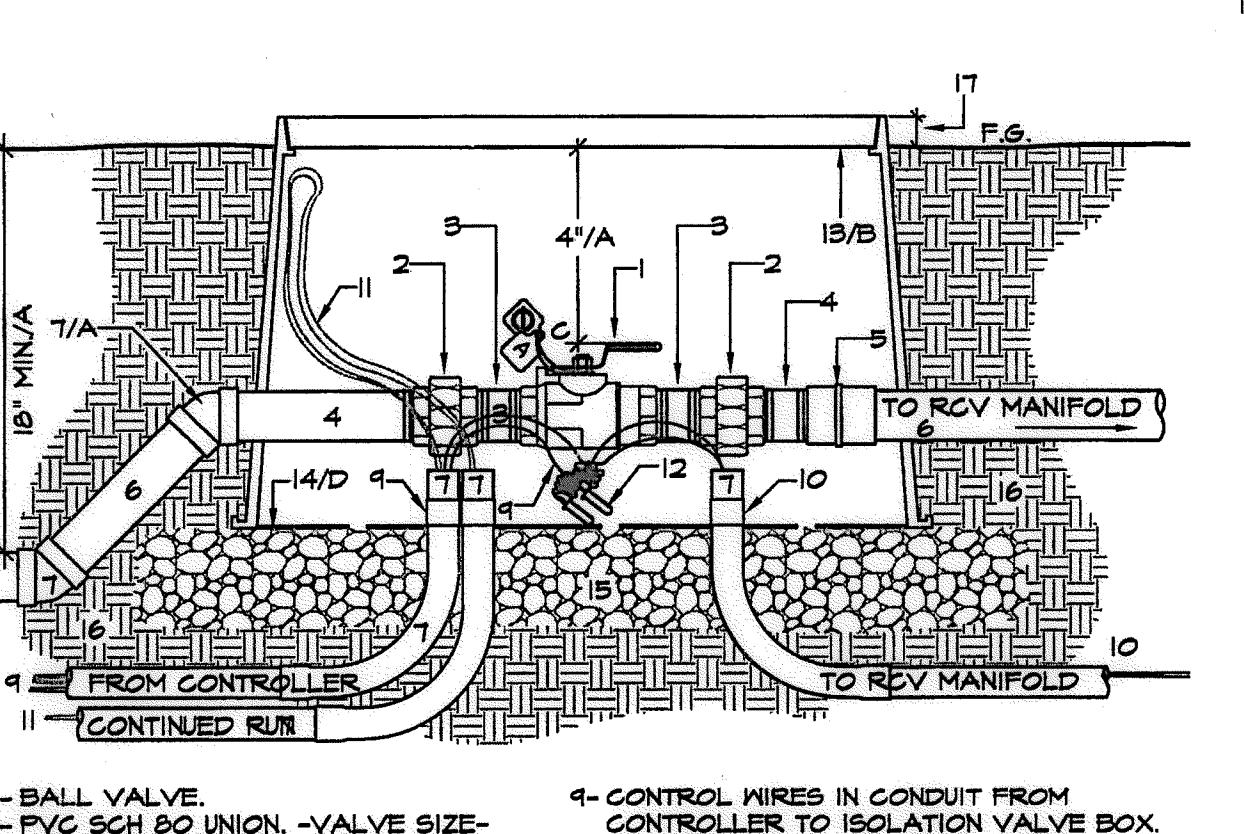
- 1- QUICK COUPLER VALVE W/PURPLE LOCKING COVER AND ACME THREAD BRASS RISER - LENGTH AS REQUIRED.
- 2- BRASS COUPLER (THREADED)
- 3- BRICKS, CONTIGIOUS AROUND BASE
- 4- 3/8" GRAVEL SUMP AND LEVELING PAD, 6" DEEP MINIMUM.
- 5- BRASS NIPPLE FROM ISOLATION VALVE, DEPTH AS SPECIFIED.
- 6- BRASS NIPPLE FROM ISOLATION VALVE, DEPTH AS SPECIFIED.
- 7- BRASS STREET ELL
- 8- 1" IN TURF- 2" IN SHRUB AREA.
- 9- 12" FROM WALKS, CURBS OR WALLS.
- 10- 1 GIFT. CONCRETE THRUST BLOCK - SEE SPECS.
- 11- 10" ROUND DURA DRI-BOX.
- 12- DIRT SKIRT OF THE DURA DRI-BOX.
- 13- UNDISTURBED/COMPACTED SUBGRADE
- 14- SEE SPECS.

D2 QUICK COUPLER VALVE IN BOX SECTION - NO SCALE



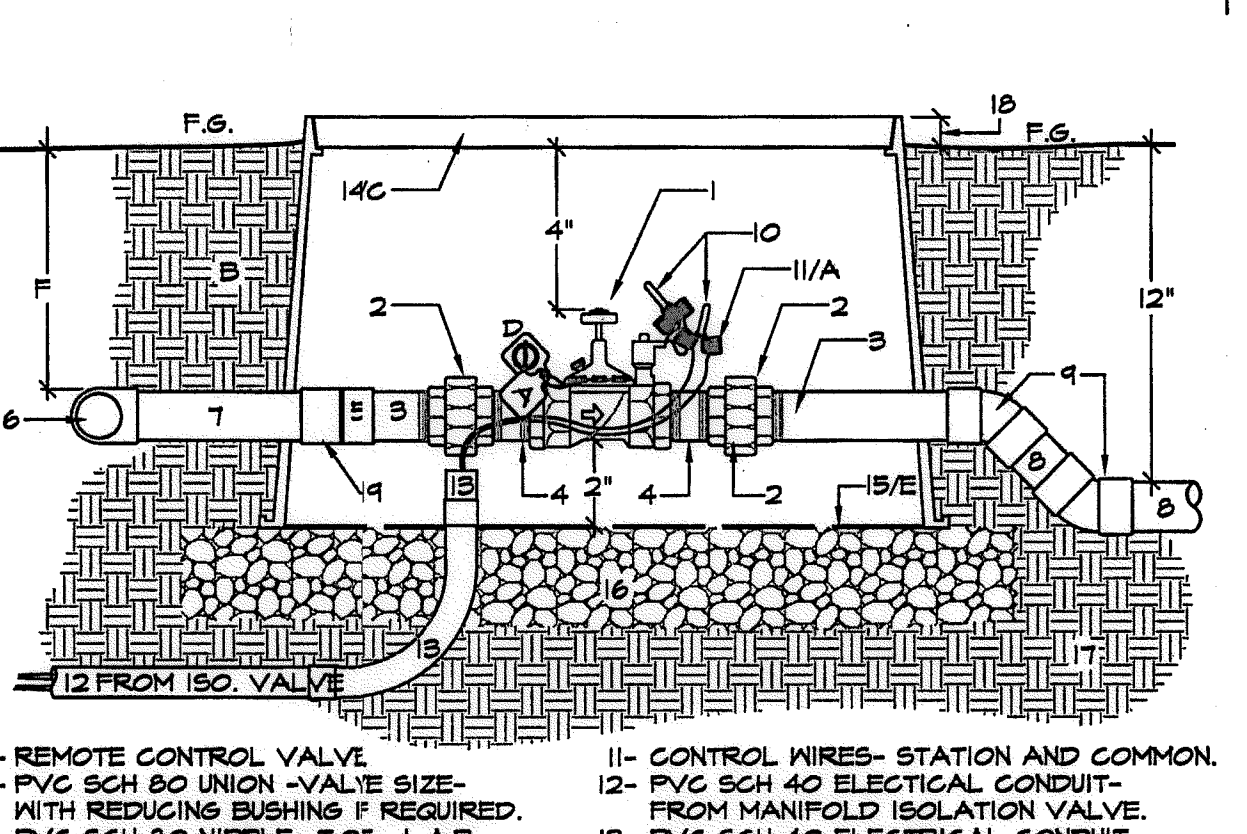
- 1- VACUUM / AIR RELIEF VALVE.
- 2- ISOLATION BALL VALVE
- 3- VALVE BOX, STD RECT. DURA DRI-BOX WITH LOCKING PURPLE LID
- 4- PVC SCH 80 NIPPLE L.A.R.
- 5- O-RING SEALED SWING JOINT
- 6- DURA PVC SCH 80 TEE-SSS OR EL-SS ON PRESSURE PIPE
- 7- UNDISTURBED OR COMPACTED SUBGRADE.
- 8- 3/8" GRAVEL SUMP AND LEVELING PAD, 3" DEEP MINIMUM
- 9- PVC PRESSURE PIPE
- 10- FLUSH IN TURF AREAS, 1" IN GROUND COVER AREAS.
- 11- DIRT SKIRT OF THE DURA DRI-BOX.

D3 VACUUM / AIR RELIEF VALVE WITH ISOLATION BALL VALVE SECTION - NO SCALE



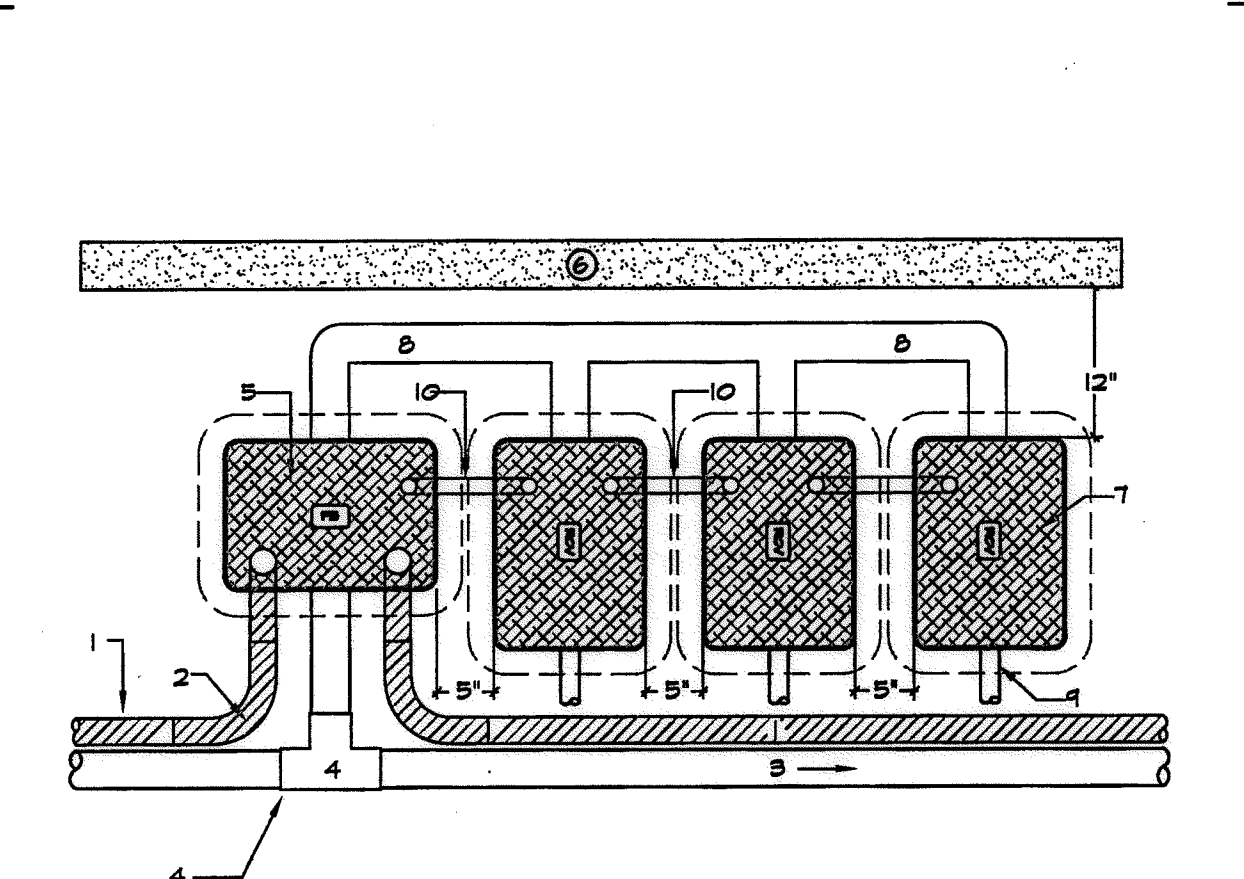
- 1- BALL VALVE
- 2- PVC SCH 80 UNION -VALVE SIZE- WITH REDUCING BUSHING IF REQUIRED.
- 3- PVC SCH 80 NIPPLE - T.B.E.
- 4- PVC SCH 80 NIPPLE - T.O.E.
- 5- PVC SCH 80 COUPLING
- 6- PVC PRESSURE MAIN - TYP.
- 7- PVC SCH 80 45 DEGREE ELLS - TYP. 2 PLACES.
- 8- PVC SCH 40 ELECTRICAL CONDUIT, SWEET ELLS AND BUSHINGS- SIZED AS REQ. FOR WIRE BUNDLE - 1/4" MINIMUM.
- 9- CONTROL WIRES IN CONDUIT FROM CONTROLLER TO ISOLATION VALVE BOX.
- 10- CONTROL WIRES IN CONDUIT TO RCV MANIFOLD.
- 11- 5 SPARE CONTROL WIRES ON CONTINUED RUN.
- 12- #12 PILOT WIRES AND #10 COMMON WIRE.
- 13- WATERPROOF CONNECTORS- 3M DBY OR EQUAL.
- 14- STANDARD RECT. DURA DRI-BOX.
- 15- #12-DB-2-DS W/ PURPLE LOCKING LID.
- 16- DIRT SKIRT OF THE DURA DRI-BOX.
- 17- UNDISTURBED OR COMPACTED SUBGRADE, AT FINISH GRADE IN TURF, 1" IN SHRUB AREA.

D4 BALL VALVE FOR MANIFOLD ISOLATION WITH CONTROL WIRES IN CONDUIT SECTION - NO SCALE



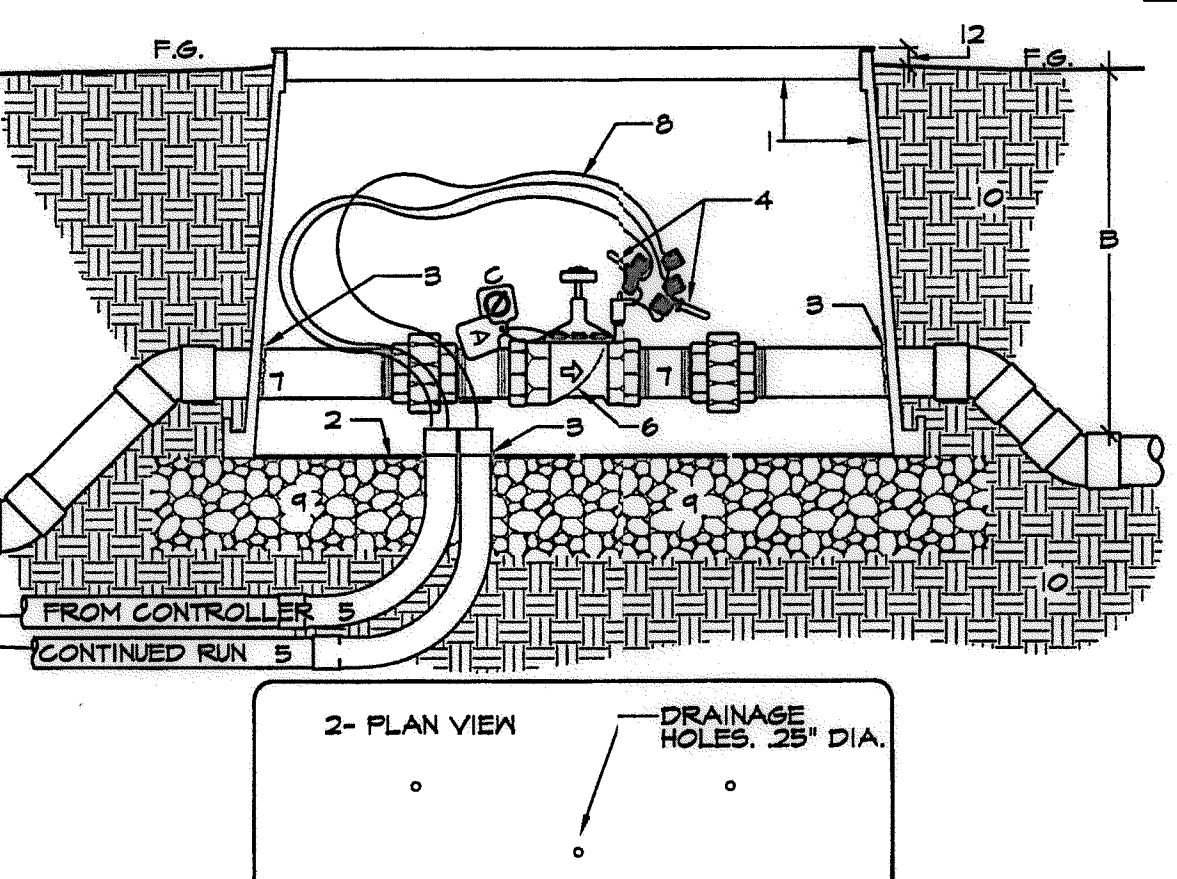
- 1- REMOTE CONTROL VALVE
- 2- PVC SCH 80 UNION -VALVE SIZE- WITH REDUCING BUSHING F REQUIRED.
- 3- PVC SCH 80 NIPPLE -T.O.E- L.A.R.
- 4- PVC SCH 80 NIPPLE -T.B.E- L.A.R.
- 5- PVC SCH 80 COUPLING
- 6- PVC SCH 80 TEE OR ELL AT MANIFOLD.
- 7- PVC PRESSURE PIPE
- 8- PVC NON-PRESSURE PIPE
- 9- PVC SCH 40 45 DEG. ELL -TYP. 2X.
- 10- WATERPROOF CONNECTORS- 3M DBY OR EQUAL.
- 11- CONTROL WIRES- STATION AND COMMON.
- 12- PVC SCH 40 ELECTRICAL CONDUIT- FROM MANIFOLD ISOLATION VALVE.
- 13- PVC SCH 40 ELECTRICAL CONDUIT SWEET ELLS AND CONDUIT BUSHINGS- SIZED AS REQ. - 1" MINIMUM.
- 14- STANDARD RECT. DURA DRI-BOX.
- 15- #12-DB-2-DS W/ PURPLE LOCKING LID.
- 16- DIRT SKIRT OF THE DURA DRI-BOX.
- 17- UNDISTURBED/COMPACTED SUBGRADE, 3" DEEP MINIMUM.
- 18- FLUSH IN TURF, 1" IN GROUND COVER.

D5 REMOTE CONTROL VALVE FROM MANIFOLD WITH CONTROL WIRES IN CONDUIT SECTION - NO SCALE



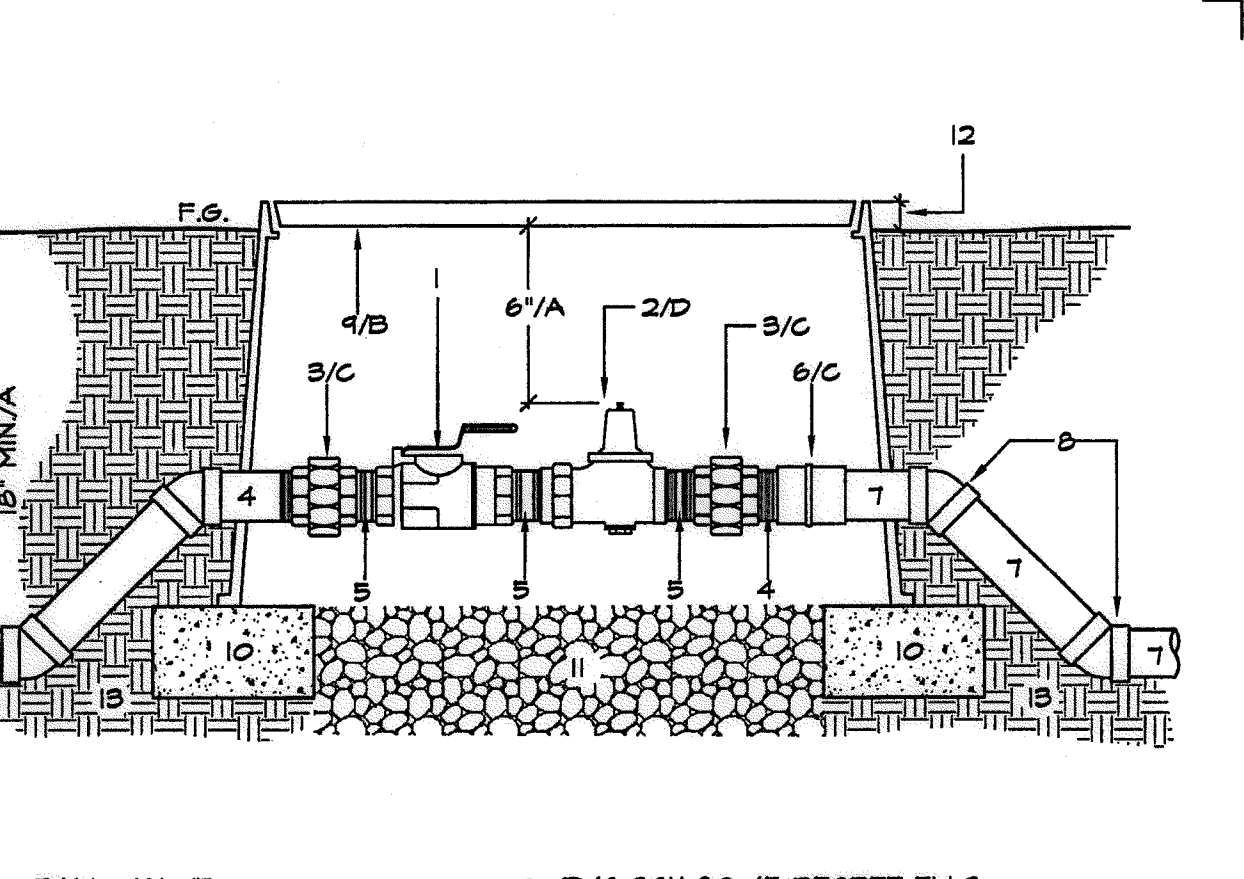
- 1- PVC SCH 40 ELECTRICAL CONDUIT.
- 2- CONDUIT SWEET ELL - TYP.
- 3- IRRIGATION MAINLINE RUN
- 4- PVC SCH 80 FITTING
- 5- RECTANGULAR VALVE BOX W/ISOLATION VALVE. USED ALSO AS FULL BOX
- 6- EDGE OF AREA, CURB OR WALL.
- 7- STANDARD RECTANGULAR VALVE BOX.
- 8- RCV MAINLINE MANIFOLD.
- 9- LATERAL RUN -TYP.
- 10- CONTROL WIRE IN SCH 40 ELEC. CONDUIT FROM FULL BOX AND FROM VALVE BOX-TO-VALVE BOX

D6 ELECTRICAL CONDUIT, FULL BOX, AND VALVE MANIFOLD SECTION - NO SCALE



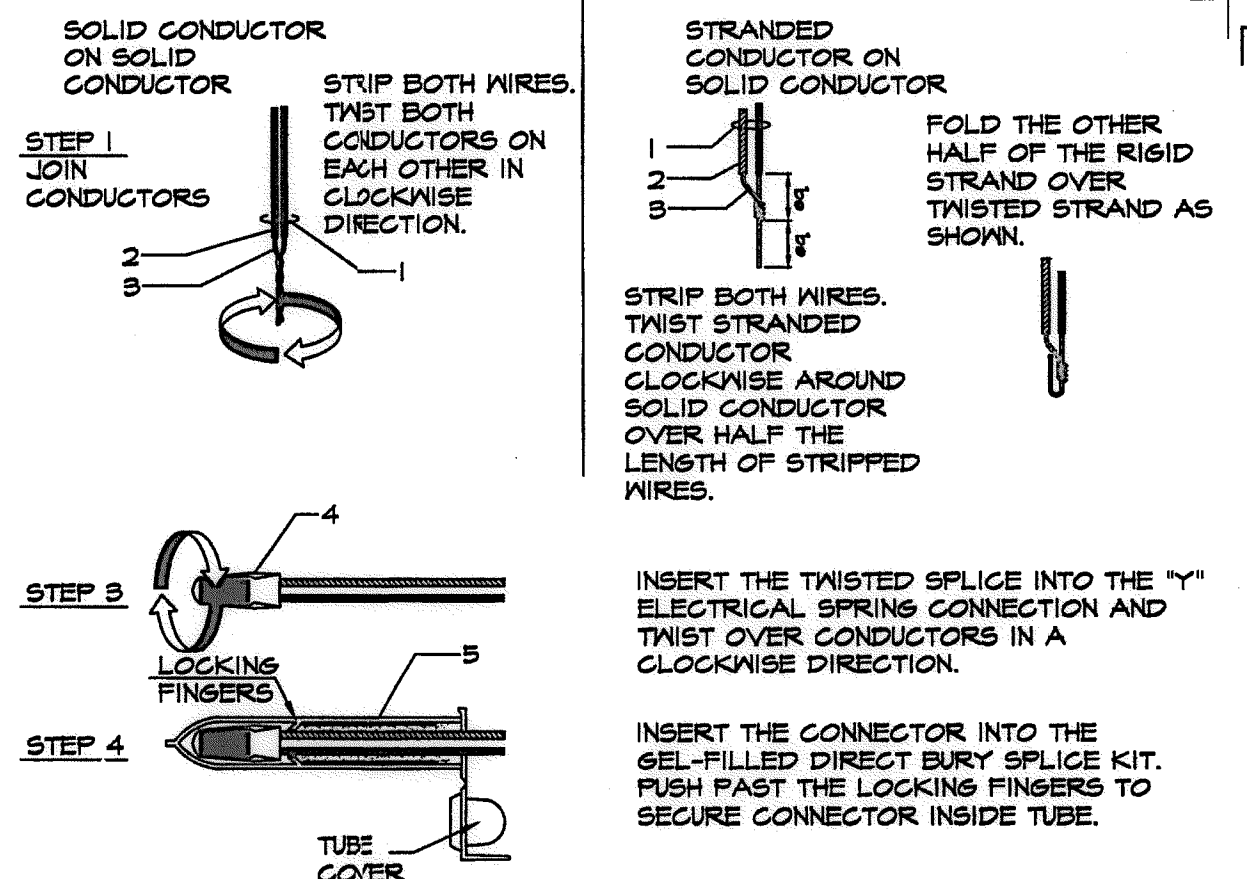
- 1- VALVE BOX - DRI-BOX BY DURA PURPLE FOR USE OF R.I.N. GREEN FOR USE OF P.N.
- 2- DURA DIRT SKIRT - DRILL .25" DRAINAGE HOLES.
- 3- AT PIPE AND/OR CONDUIT, CUT NEATLY FOR PENETRATIONS. FILL VOID AROUND PIPE AND/OR CONDUIT WITH EXPANDING FOAM.
- 4- WATER PROOF CONNECTORS, 3M DBY OR EQUAL.
- 5- PVC CONDUIT FOR CONTROL WIRE.
- 6- ENCLOSED APPURTENANCE - SEE OTHER DETAILS.
- 7- INCLUDED PLUMBING - SEE OTHER DETAILS.
- 8- CONTROL WIRE.
- 9- FEA GRAVEL LEVELING PAD - 3" MIN. 3/8"
- 10- COMPACTED BACKFILL.
- 12- 1" x 2" IN SHRUB/ GROUND COVER, AT FINISHED GRADE TO TURF.

D7 VALVE BOX SECTION AND PLAN - NO SCALE



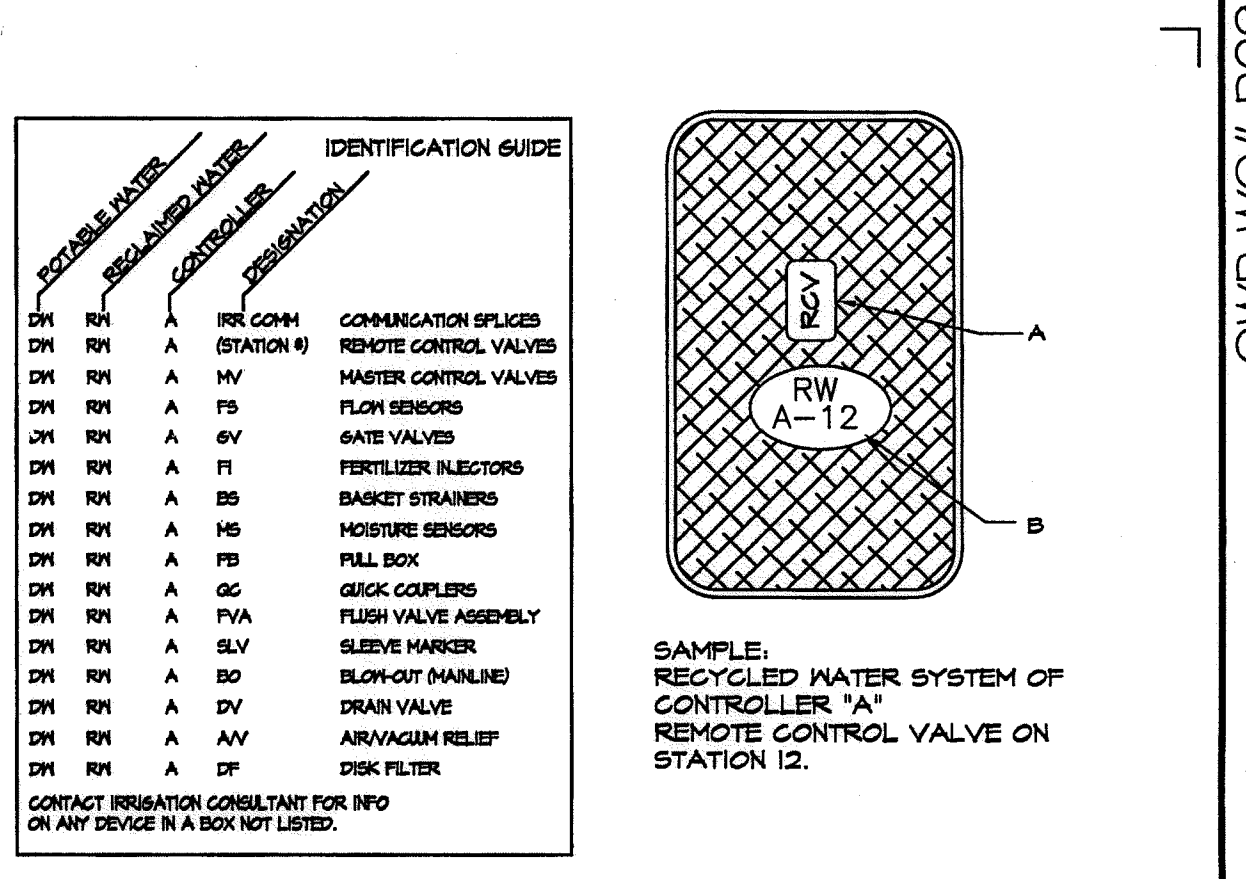
- 1- BALL VALVE.
- 2- PRESSURE REGULATOR WITH INTEGRAL UNION.
- 3- PVC SCH 80 UNION.
- 4- PVC SCH 80 NIPPLE - T.O.E.
- 5- PVC SCH 80 NIPPLE - T.B.E.
- 6- PVC SCH 80 FEMALE ADAPTER, 1" IN SHRUB AREA
- 7- PVC PRESSURE MAIN - TYP.
- 8- PVC SCH 40 45 DEGREE ELLS TYP. 4 PLACE.
- 9- VALVE BOX.
- 10- BRICK OR BLOCK SUPPORTS - 1 EA. CORNER.
- 11- FEA GRAVEL SUMP 3" DEEP, 3/8"
- 12- AT FINISH GRADE IN TURF, 1" IN SHRUB AREA

D9 BALL VALVE WITH PRESSURE REGULATOR P.O.C FOR PRIVATE POTABLE SYSTEMS SECTION - NO SCALE



- 1- DIRECT BURIAL IRRIGATION CONTROL WIRE
- 2- INSULATION
- 3- COPPER CONDUCTOR SOLID AND/OR STRANDED
- 4- ELECTRICAL SPRING CONNECTOR
- 5- GEL-FILLED CAPSULE.
- 6- COMPLETED SPLICE

D10 WATERPROOF WIRE CONNECTOR/SPLICE SECTION - NO SCALE



- NOTES:
- A- VALVE BOXES SHALL BE LABELED BY HOT IRON BRANDING OR ALUMINUM ASPHALTIC BASE WATER-PROOF PAINT. IN ADDITION, LABEL INSIDE SURFACE OF EACH VALVE BOX WITH PERMANENT BLACK MARKER OR PAINT.
- B- CONTROL VALVES SHALL BE INSTALLED TO ALLOW ORDERLY ARRANGEMENT OF VALVE BOXES.
- C- LOCATE VALVE ASSEMBLIES IN SHRUB OR GROUND COVER AREAS WHEN POSSIBLE.
- D- LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- E- CENTER VALVE BOXES OVER VALVE ASSEMBLY TO FACILITATE ACCESS AND MAINTENANCE.
- F- SET VALVE BOXES AT EQUAL ELEVATIONS WITH TOPS AT FINISH GRADE IN TURF AREAS OR 1" ABOVE FINISH GRADE IN SHRUB/ GROUND COVER AREAS.
- G- VALVE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF AREA.
- H- DO NOT DEFORM OR COLLAPSE VALVE BOX BY EXCESSIVE SOIL COMPACTION AROUND BOX.
- I- SEE ALSO INDIVIDUAL VALVE INSTALLATION DETAILS.
- J- ALL SPRAY HEADS, VALVE BOXES AND QUICK COUPLER VALVES SHALL BE CLEARLY COLORED (PURPLE) TO INDICATE THE USE OF RECYCLED WATER.

E1 VALVE BOX IDENTIFICATION AND INSTALLATION SECTION - NO SCALE

**R.I.N. IDENTIFICATION BY COLOR CODING:**

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE ELASTIC OR PERMANENTLY ATTACHED PURPLE FLASTIC RINGS OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.

\*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.

\*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

OTAY WATER DISTRICT  
PROJECT NO. 09944-060189

PZ 624, 711 RPZ 680

REVIEWED BY: *[Signature]* DATE: 5/10/17  
SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!

CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_

DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

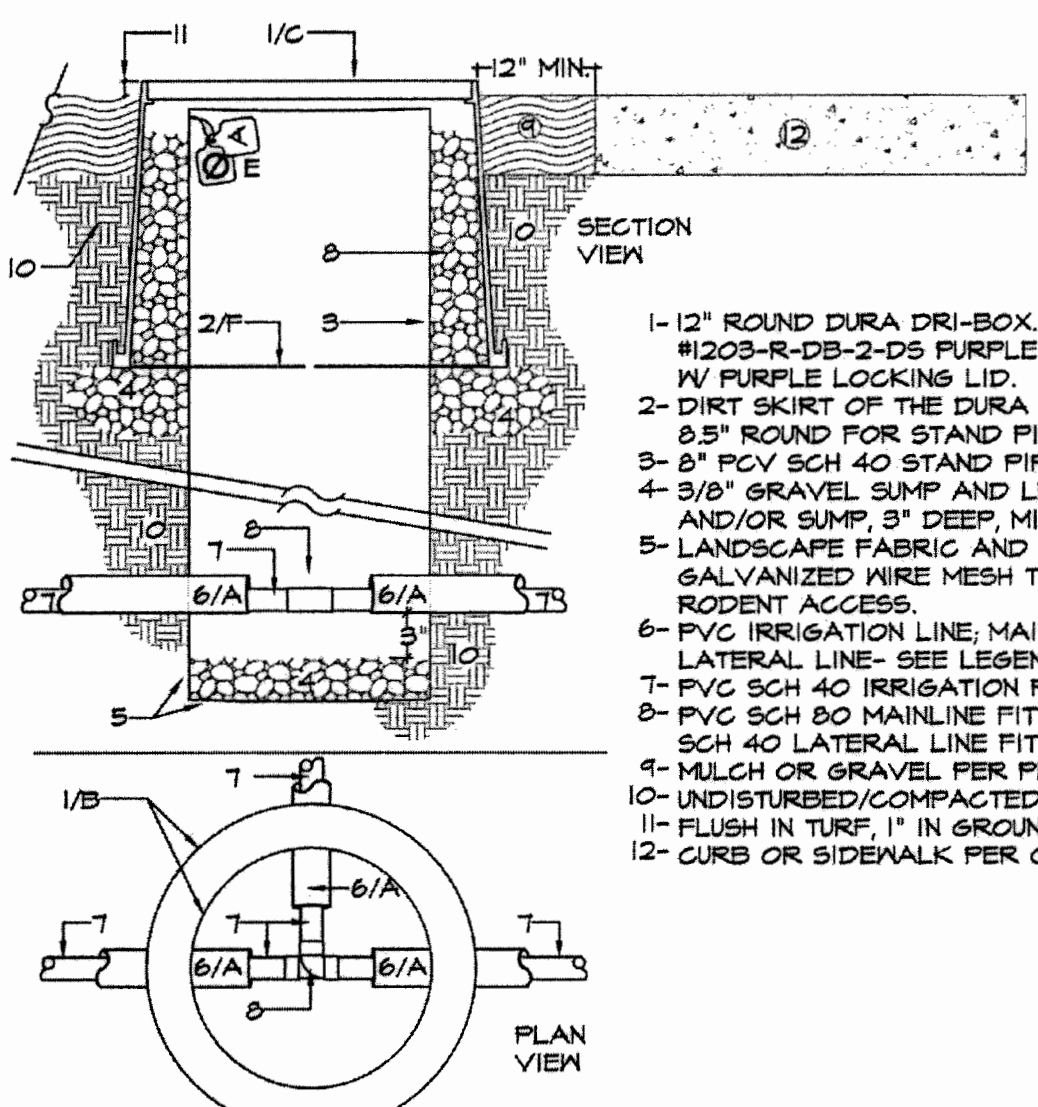
APPROVED: *[Signature]* DATE: 5-15-17  
Kelly Broughton  
Director of Development Services or designee.

REGISTERED LANDSCAPE ARCHITECT  
THOMAS A. PICARD  
7/27/12  
7/17

Tributary LA, Inc.  
2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office  
760.434.9303 fax

DATE: 10 APR '17  
SCALE: NO SCALE  
JOB NO. 15024  
DRAWN BY: T.P./T.G.  
W.O. NO. OR-3001G

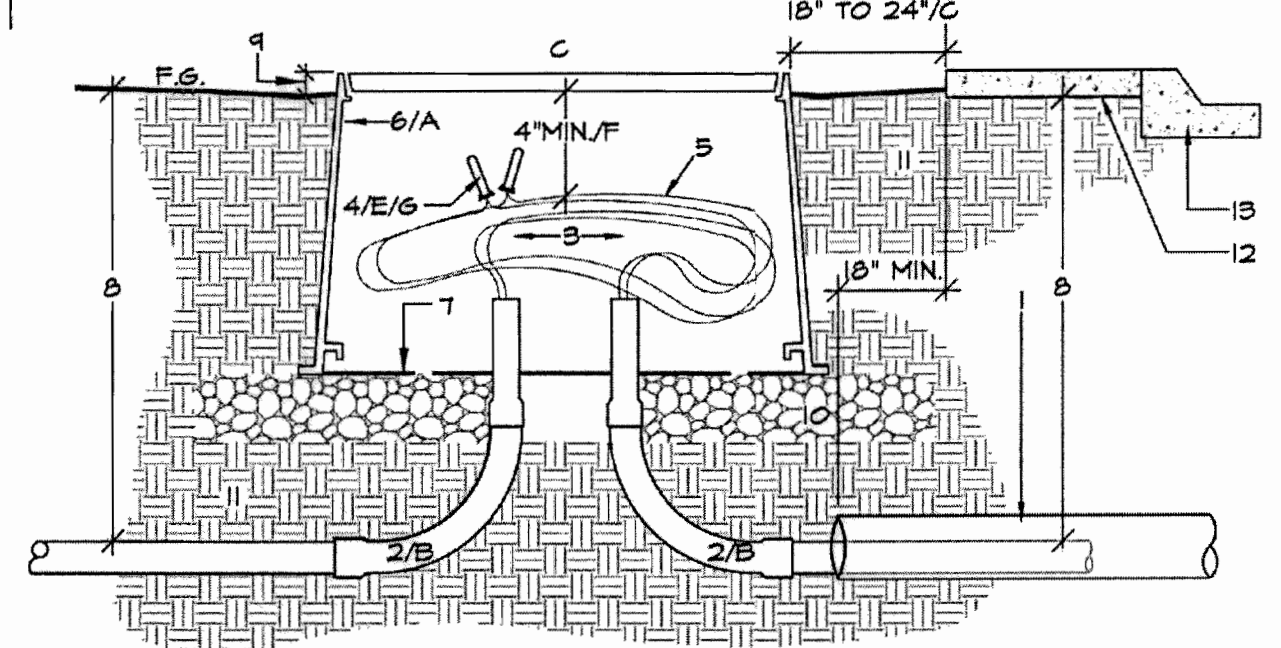
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	CITY OF CHULA VISTA	Drawing No.	
Contractor: _____ Inspector: _____ Date Completed: _____	16026-01 - 16026-93	HUNSAKER & AS'OC.				DESCRIPTION: BRASS BOX MARKED "30" CITY BOX" IN 3/4" IRON PIPE. LOCATION: 15 MILES EAST OF MIX OF RIX OF ST. & HERITAGE RD. ON ROCK MOUNTAIN 100' EAST OF S. END OF ROADWAY 10' HIGH SHOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (74 1339 PER R.I.S. M84) ELEV=629.319' (NAVD83)	Horizontal Field Vertical Traffic		THOMAS A. PICARD				<i>[Signature]</i> Kelly Broughton Director of Development Services or designee.	LANDSCAPE IRRIGATION DETAIL DRAWINGS AND PRESSURE REQUIREMENT CALCULATIONS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 44 Sheet 44 of 88



- 1- 12" ROUND DURA DRI-BOX #1203-R-DB-2-DS W/ PURPLE LOCKING LID.
- 2- DIRT SKIRT OF THE DURA DRI-BOX. CUT 8.5" ROUND FOR STAND PIPE.
- 3- 2" PVC SCH 40 STAND PIPE, VIEW PORT.
- 4- 3/8" GRAVEL SUMP AND LEVELING PAD AND/OR SUMP, 3" DEEP, MINIMUM.
- 5- LANDSCAPE FABRIC AND .25" GALVANIZED WIRE MESH TO PREVENT RODENT ACCESS.
- 6- PVC IRRIGATION LINE, MAINLINE OR LATERAL LINE- SEE LEGEND.
- 7- PVC SCH 40 IRRIGATION PIPE SLEEVE.
- 8- PVC SCH 80 MAINLINE FITTING, OR SCH 40 LATERAL LINE FITTING.
- 9- MULCH OR GRAVEL PER PLANTING PLAN.
- 10- UNDISTURBED/COMPACTED SUBGRADE.
- 11- FLUSH IN TURF, 1" IN GROUND COVER.
- 12- CURB OR SIDEWALK PER CIVIL PLANS.

NOTE:  
 A. SLEEVE TO BE 2 TIMES THE DIAMETER OF PIPE TO BE SLEEVED.  
 B. SLEEVE VIEWPORT TO BE CENTERED OVER FITTING.  
 C. SLEEVE VIEWPORT BOX COVER SHALL BE BRANDED WITH "SV" TO INDICATE SLEEVE VIEWPORT.  
 D. SOIL COMPACTION PER CIVIL ENG.  
 E. CONTRACTOR SHALL INCLUDE A CHRISTY'S R/W, WARNING TAG AND IRRIGATION I.D. TAG INDICATING CONTROLLER NUMBER, WARNING TAGS TO BE IN ENGLISH AND SPANISH. TAGS SHALL BE ATTACHED THROUGH DRILLED HOLE IN STAND PIPE.  
 F. DIRT SKIRT OF THE DURA DRI-BOX TO BE NEATLY CUT AROUND STAND PIPE PENETRATION TO PREVENT RODENT INTRUSION.  
 G. FILL VOID BETWEEN VALVE BOX AND STAND PIPE WITH 3/8" CRUSHED ROCK.

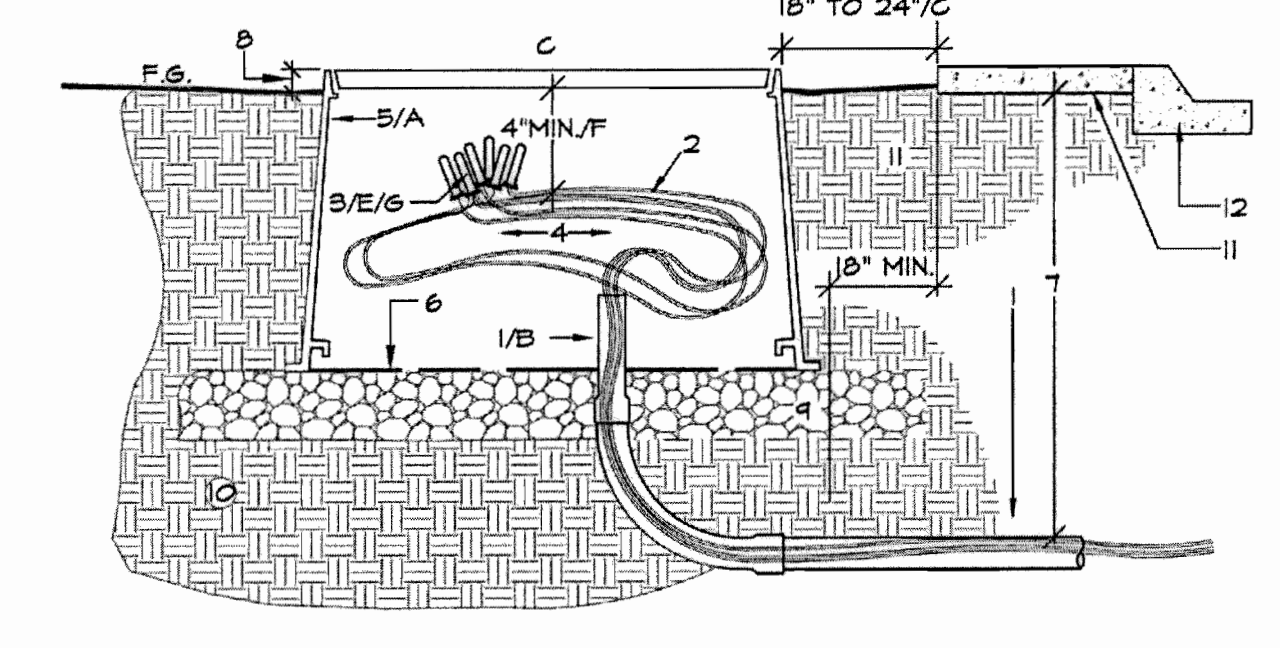
**E1** VIEWPORT FOR SLEEVE WITHIN PLANTING AREA SECTION / PLAN - NO SCALE



- 1- PVC SCH 40 OR 80 SLEEVE.
- 2- 40 DEG. SWEEP ELL.
- 3- CONTROL WIRE OR COMMUNICATION CABLE PER SPECIFICATIONS.
- 4- APPROVED WATERPROOF WIRE CONNECTORS FOR SPLICED CONNECTION.
- 5- EXPANSION LOOP- 4 FT. EXTRA WIRE OR CABLE IN BOX.
- 6- STANDARD RECT. DURA DRI-BOX #1203-DB-2-DS W/ PURPLE LOCKING LID.
- 7- DIRT SKIRT OF THE DURA DRI-BOX.
- 8- 18" MINIMUM-SEE SPECS. AND TRENCH DETAIL FOR DEPTHS.
- 9- FLUSH IN TURF, 1" IN GROUND COVER.
- 10- 3/8" GRAVEL LEVELING PAD AND SUMP, MIN. 3" DEEP.
- 11- UNDISTURBED / COMPACTED SUB-GRADE.
- 12- SIDEWALK.
- 13- CURB AND GUTTER.

NOTE:  
 A. INSTALL PULL BOXES AS SHOWN ON PLANS, AT ALL STREET CROSSINGS AND OTHER PAVING CROSSINGS IN EXCESS OF 20 FEET. MAINLINE ISOLATION VALVES WILL ALSO ACT AS PULL BOXES ON THE CONDUIT ROUTE. SEE MAINLINE ISOLATION VALVE DETAIL DRAWING.  
 B. ALL CONTROL WIRES TO BE INSTALLED WITHIN CONDUIT. SIZE CONDUIT APPROPRIATE TO WIRE BUNDLE.  
 C. PULL BOX COVER SHALL BE PERMANENTLY MARKED AS SHOWN IN VALVE BOX IDENTIFICATION DETAIL DRAWING AND LOCATED AS SHOWN BY DETAIL "M2" AND "N" AND AS REQUIRED BY THE CITY OF CHULA VISTA.  
 D. CONDUCTORS FOR EACH CONTROLLER CLOCK SHALL BE WITHIN SEPARATE CONDUIT.  
 E. ALL SPARE WIRE ENDS SHALL BE INSULATED IN THE SAME MANNER AS WIRE SPLICES.  
 F. WIRE BUNDLES INSIDE PULL BOXES SHALL BE AT LEAST 4" FROM THE UNDER SIDE OF THE BOX COVER. MINIMUM SIZE PULL BOX SHALL BE AS SHOWN ABOVE. LARGER BOXES AND/OR EXTENSIONS MAY BE NECESSARY TO MEET THE 4" CLEARANCE REQUIREMENT.  
 G. LOOP CONTROL WIRES INTO PULL BOX. ALL SPLICES ARE TO BE MADE IN PULL BOXES OR REMOTE CONTROL VALVE BOXES.

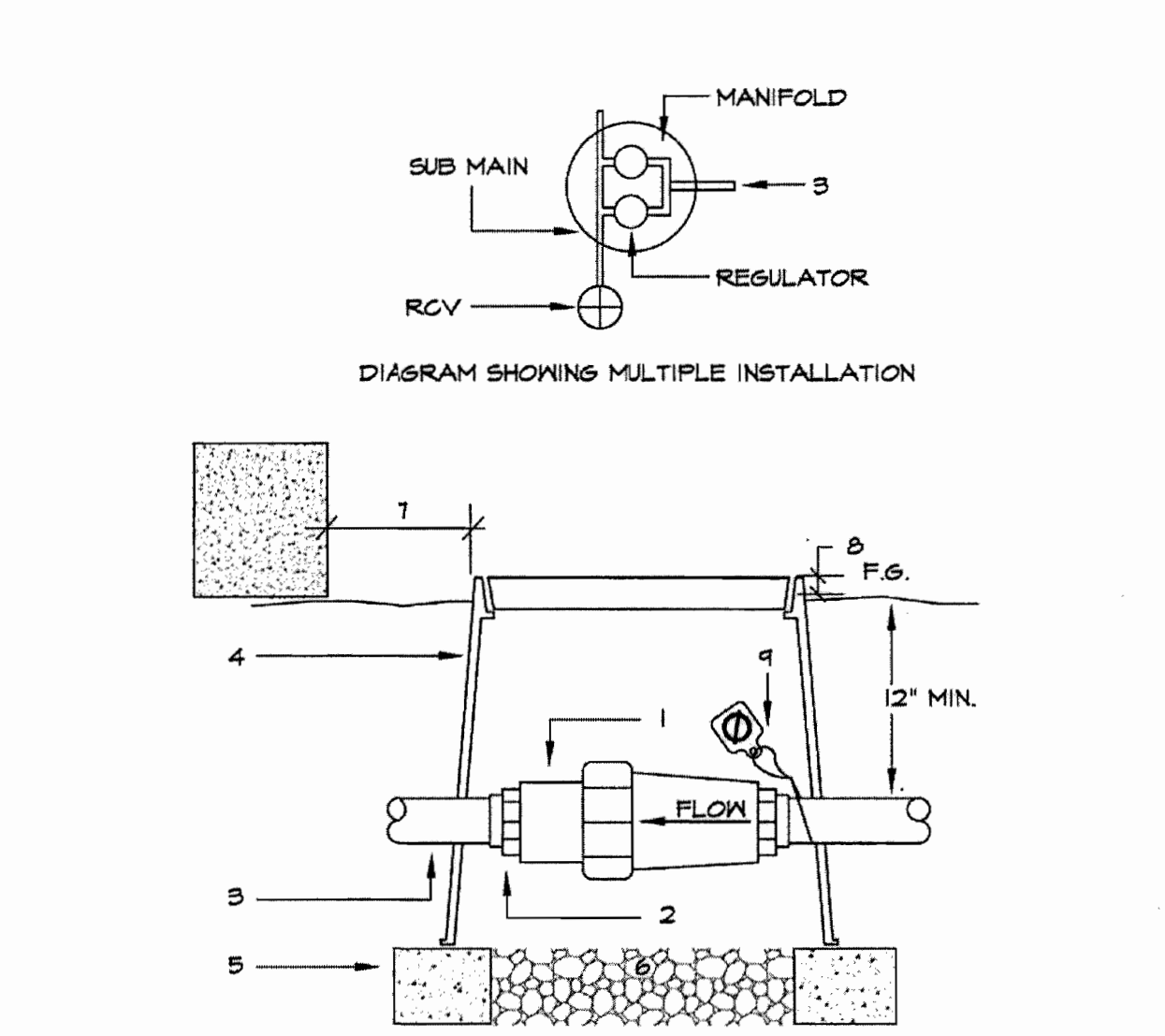
**E2** CONTROL WIRE OR FLOW SENSING CABLE WITHIN CONDUIT AND PULL BOX SECTION - NO SCALE



- 1- 40 DEG. SWEEP ELL.
- 2- CONTROL WIRE OR COMMUNICATION CABLE PER SPECIFICATIONS.
- 3- APPROVED WATERPROOF WIRE CONNECTORS FOR SPLICED CONNECTION.
- 4- EXPANSION LOOP- 10 FT. EXTRA WIRE OR CABLE IN BOX.
- 5- STANDARD RECT. DURA DRI-BOX #1203-DB-2-DS W/ PURPLE LOCKING LID.
- 6- DIRT SKIRT OF THE DURA DRI-BOX.
- 7- 18" MINIMUM-SEE SPECS. AND TRENCH DETAIL FOR DEPTHS.
- 8- FLUSH IN TURF, 1" IN GROUND COVER.
- 9- 3/8" GRAVEL LEVELING PAD AND SUMP, MIN. 3" DEEP.
- 10- UNDISTURBED / COMPACTED SUB-GRADE.
- 11- SIDEWALK.
- 12- CURB AND GUTTER.

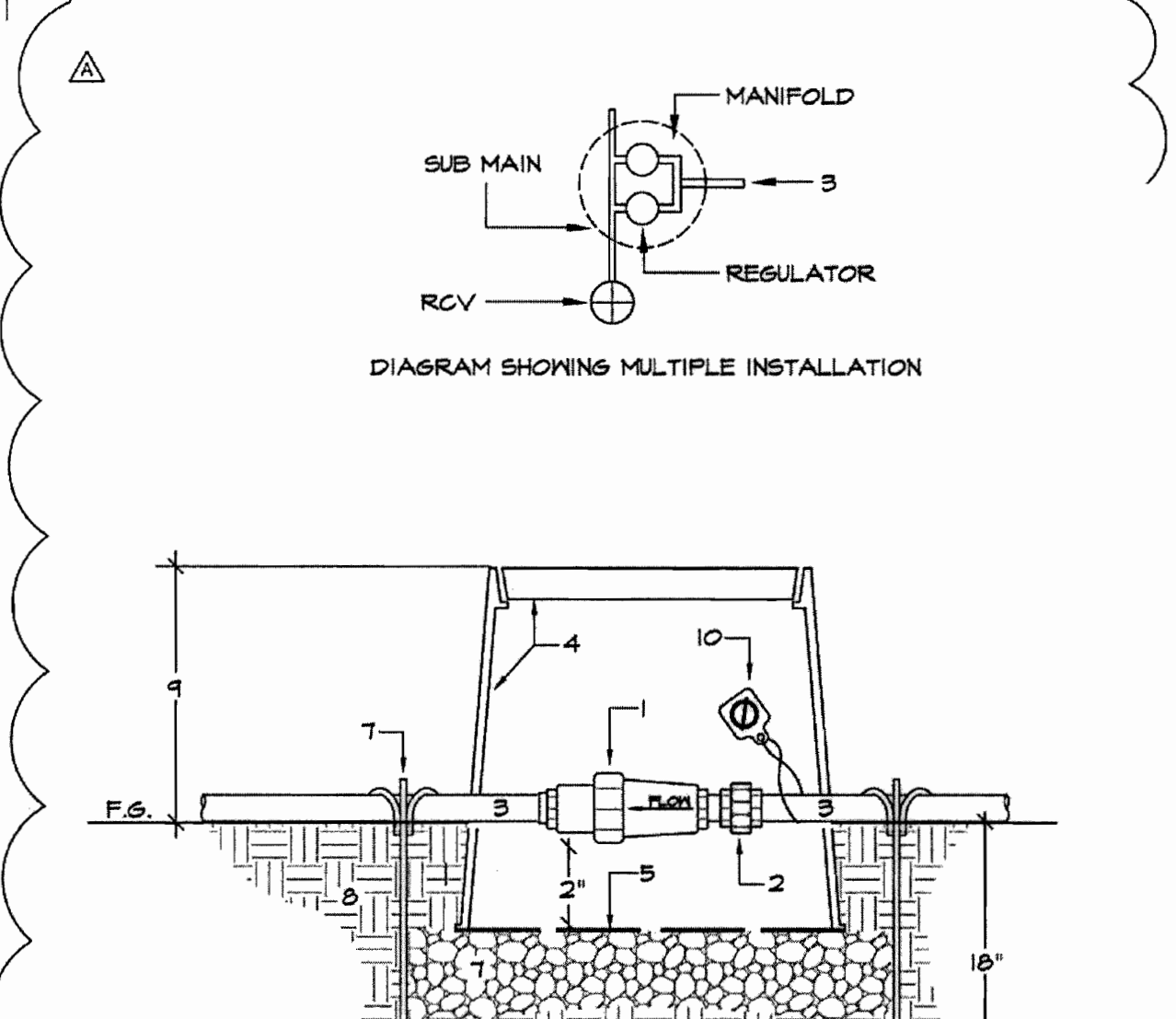
NOTE:  
 A. INSTALL PULL BOXES AS SHOWN ON PLANS, AFTER THE LAST REMOTE CONTROL VALVE ON EVERY MAINLINE TERMINAL.  
 B. ALL CONTROL WIRES TO BE INSTALLED WITHIN CONDUIT. SIZE CONDUIT APPROPRIATE TO WIRE BUNDLE.  
 C. PULL BOX COVER SHALL BE PERMANENTLY MARKED AS SHOWN IN VALVE BOX IDENTIFICATION DETAIL DRAWING AND LOCATED AS SHOWN BY DETAIL "X" AND "X" AND AS REQUIRED BY THE CITY OF CHULA VISTA.  
 D. CONDUCTORS FOR EACH CONTROLLER CLOCK SHALL BE WITHIN SEPARATE CONDUIT.  
 E. ALL SPARE WIRE ENDS SHALL BE INSULATED WITH WATER PROOF CONNECTORS, IN THE SAME MANNER AS WIRE SPLICES.  
 F. WIRE BUNDLES INSIDE PULL BOXES SHALL BE AT LEAST 4" FROM THE UNDER SIDE OF THE BOX COVER. MINIMUM SIZE PULL BOX SHALL BE AS SHOWN ABOVE. LARGER BOXES AND/OR EXTENSIONS MAY BE NECESSARY TO MEET THE 4" CLEARANCE REQUIREMENT.  
 G. LOOP CONTROL WIRES INTO PULL BOX.

**E3** CONTROL WIRE AT LAST RCV MANIFOLD WITHIN CONDUIT AND PULL BOX SECTION - NO SCALE



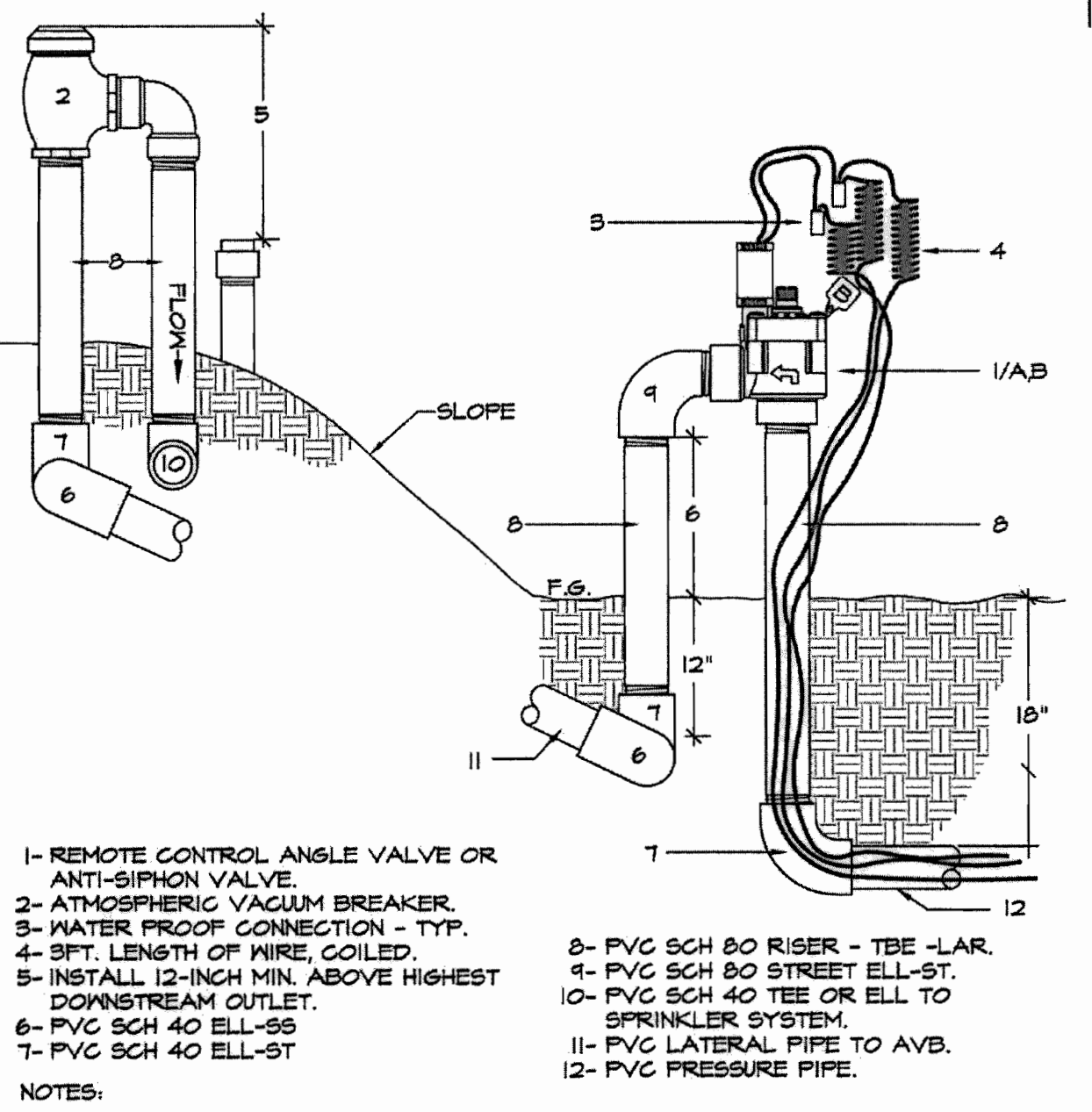
- 1- REGULATOR OR CHECK VALVE.
- 2- PVC SCH 40 MALE ADAPTER.
- 3- PVC LATERAL.
- 4- 6" ROUND VALVE BOX.
- 5- BRICK SUPPORTS - TWO.
- 6- FEA GRAVEL SUMP 3" DEEP.
- 7- 12" FROM WALL OR PAVING.
- 8- FLUSH IN TURF, 1" IN GROUND COVER.
- 9- R/W WARNING TAG IF REG.

**F1** IN-LINE CHECK VALVE OR REGULATOR ON LATERAL SECTION - NO SCALE



- 1- CHECK VALVE OR PRE-SET REGULATOR.
- 2- PVC UNION SCH 40.
- 3- UVR PVC LATERAL.
- 4- 10" ROUND VALVE BOX, DURA DRI-BOX #1203-DB-2-DS W/ CAM-LOC LID.
- 5- DURA DIRT SKIRT.
- 6- V.I.T. PIPE STABILIZING STAKE SLIP X SLIP.
- 7- 3/8" GRAVEL SUMP AND LEVELING PAD, 3" DEEP, MINIMUM.
- 8- UNDISTURBED/COMPACTED SUB-GRADE.
- 9- 5" IN GROUND COVER.
- 10- R/W WARNING TAG IF REG.

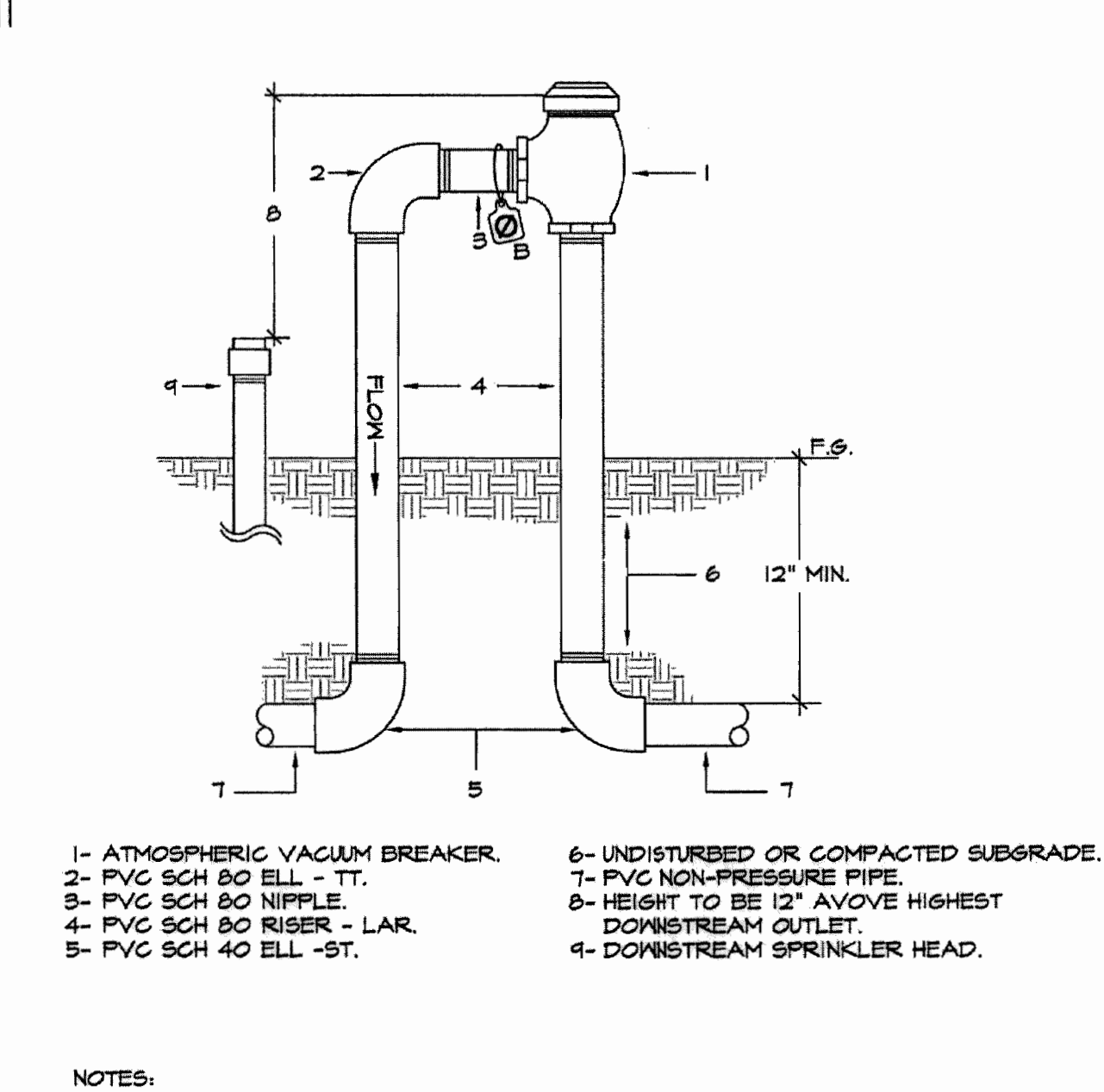
**F2** IN-LINE CHECK VALVE OR REGULATOR ON LATERAL, ON-GRADE INSTALLATION SECTION - NO SCALE



- 1- REMOTE CONTROL ANGLE VALVE OR ANTI-SIPHON VALVE.
- 2- ATMOSPHERIC VACUUM BREAKER.
- 3- WATER PROOF CONNECTION - TYP.
- 4- 8FT. LENGTH OF WIRE, COILED.
- 5- INSTALL 12-INCH MIN. ABOVE HIGHEST DOWNSTREAM OUTLET.
- 6- PVC SCH 40 ELL-90.
- 7- PVC SCH 40 ELL-ST.
- 8- PVC SCH 80 RISER - TEE -LAR.
- 9- PVC SCH 80 STREET ELL-ST.
- 10- PVC SCH 40 TEE OR ELL TO SPRINKLER SYSTEM.
- 11- PVC LATERAL PIPE TO AVB.
- 12- PVC PRESSURE PIPE.

NOTE:  
 A. FOR SYSTEMS AT TOP OF SLOPE USE ANGLE VALVE AND AVB INSTALLED 8" ABOVE THE HIGHEST OUTLET.  
 B. FOR SYSTEMS AT TOE OF SLOPE USE ANTI-SIPHON VALVE.  
 C. CONTRACTOR SHALL INCLUDE A CHRISTY'S IRRIGATION I.D. TAG ATTACHED TO VALVE BONNET BOLT. TAG SHALL INDICATE CONTROLLER AND STATION NUMBER. SEE ALSO DETAIL.

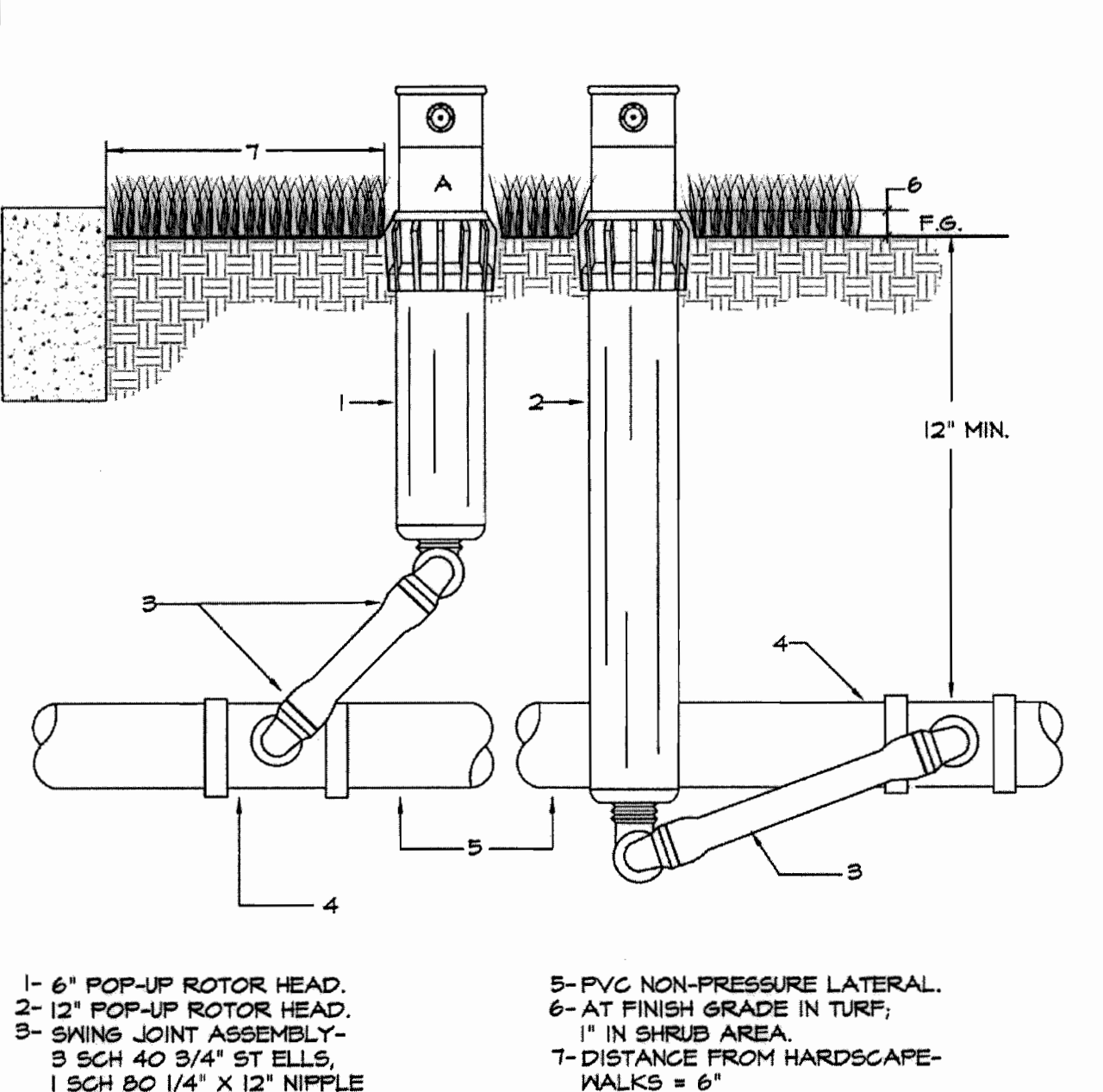
**G1** REMOTE CONTROL VALVE ANTI-SIPHON SECTION - NO SCALE



- 1- ATMOSPHERIC VACUUM BREAKER.
- 2- PVC SCH 80 ELL - TT.
- 3- PVC SCH 80 NIPPLE.
- 4- PVC SCH 80 RISER - LAR.
- 5- PVC SCH 40 ELL -ST.
- 6- UNDISTURBED OR COMPACTED SUBGRADE.
- 7- PVC NON-PRESSURE PIPE.
- 8- HEIGHT TO BE 12" ABOVE HIGHEST DOWNSTREAM OUTLET.
- 9- DOWNSTREAM SPRINKLER HEAD.

NOTE:  
 A. ATMOSPHERIC VACUUM BREAKER AS A BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL ORDINANCE, HEALTH AND WATER AGENCY REGULATIONS.  
 B. R/W WARNING TAG IF REQ.

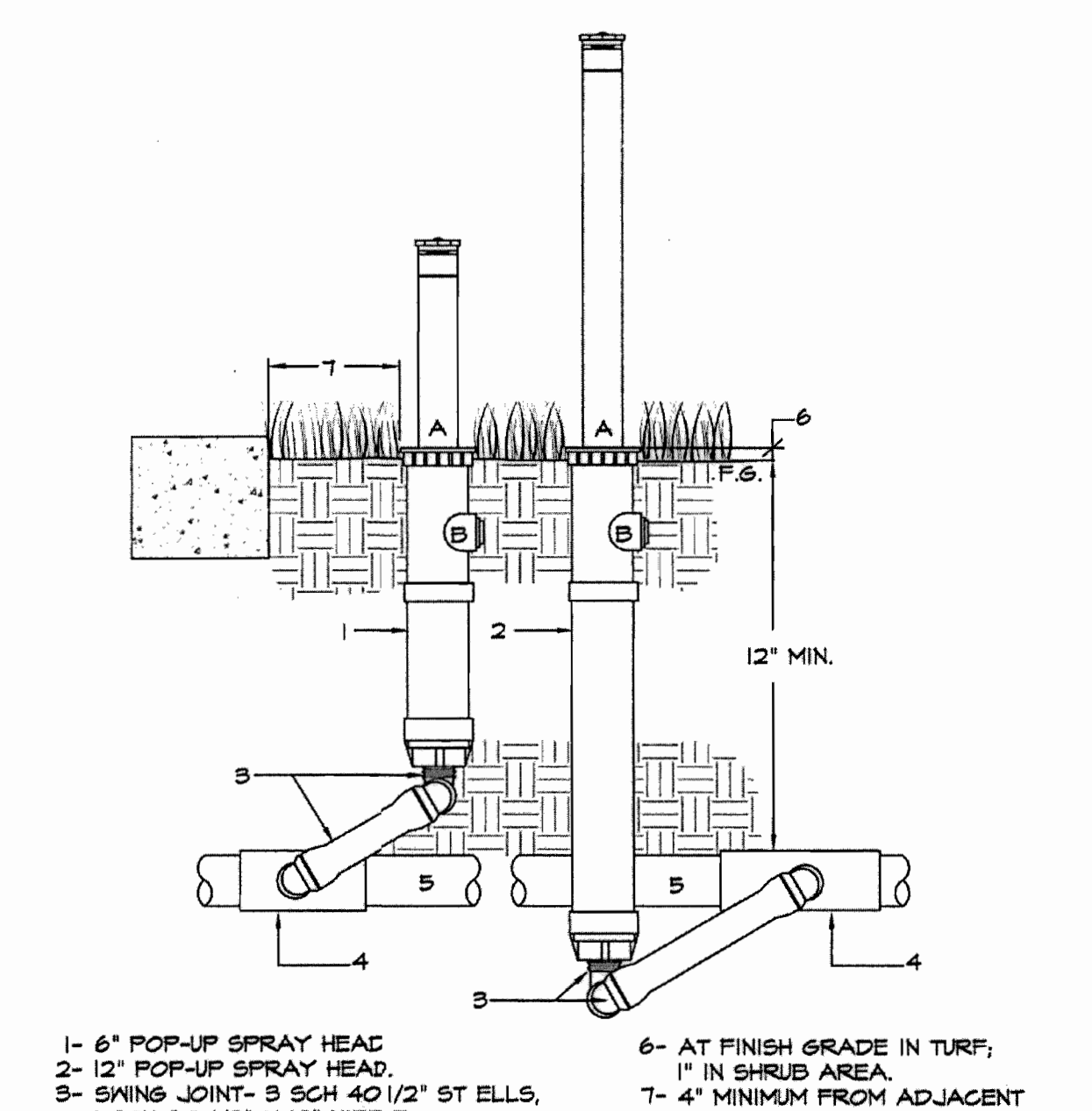
**G2** ATMOSPHERIC VACUUM BREAKER SECTION - NO SCALE



- 1- 6" POP-UP ROTOR HEAD.
- 2- 12" POP-UP ROTOR HEAD.
- 3- SWING JOINT ASSEMBLY- 3 SCH 40 9/4" ST ELLS, 1 SCH 80 1/4" X 12" NIPPLE.
- 4- PVC SCH 40 TEE-SST OR EL-ST.
- 5- PVC NON-PRESSURE LATERAL.
- 6- AT FINISH GRADE IN TURF, 1" IN SHRUB AREA.
- 7- DISTANCE FROM HARDSCAPE-WALKS = 6"

NOTE:  
 A. R/W WARNING CAP IF REQUIRED.

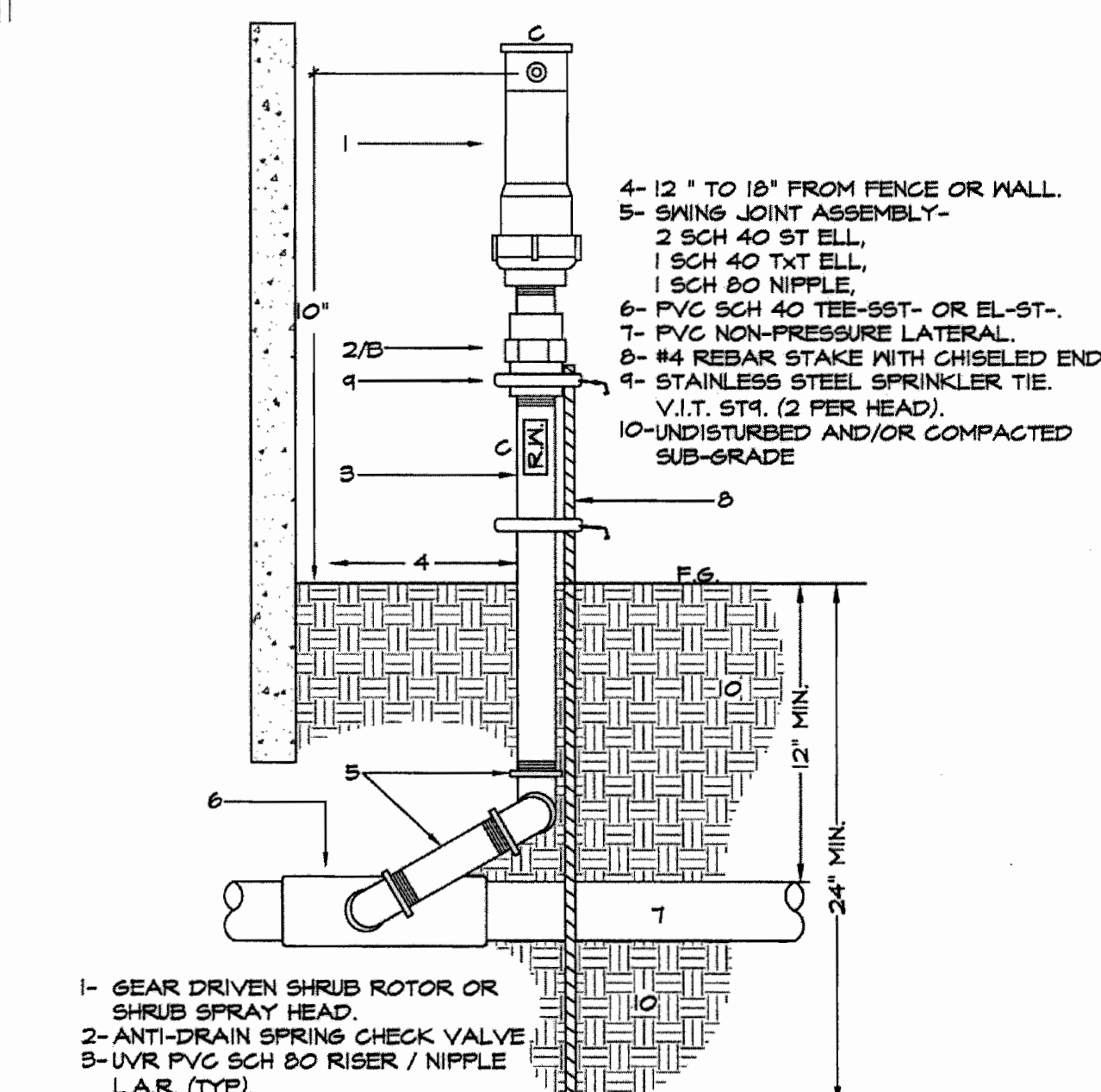
**H1** POP-UP ROTOR HEAD SECTION - NO SCALE



- 1- 6" POP-UP SPRAY HEAD.
- 2- 12" POP-UP SPRAY HEAD.
- 3- SWING JOINT- 3 SCH 40 1/2" ST ELLS, 1 SCH 80 1/2" X 12" NIPPLE.
- 4- PVC SCH 40 TEE-SST OR EL-ST.
- 5- PVC NON-PRESSURE LATERAL.
- 6- AT FINISH GRADE IN TURF, 1" IN SHRUB AREA.
- 7- 4" MINIMUM FROM ADJACENT WALLS AND/OR HARDSCAPE.

NOTE:  
 A. RECYCLED WATER WARNING CAP.  
 B. DO NOT USE SIDE INLET.

**H2** POP-UP SPRAY HEAD SECTION - NO SCALE



- 1- GEAR DRIVEN SHRUB ROTOR OR SHRUB SPRAY HEAD.
- 2- ANTI-DRAIN SPRING CHECK VALVE.
- 3- UVR PVC SCH 80 RISER / NIPPLE -LAR- (TYP).
- 4- 12" TO 18" FROM FENCE OR WALL.
- 5- SWING JOINT ASSEMBLY- 2 SCH 40 ST ELL, 1 SCH 40 TTT ELL, 1 SCH 80 NIPPLE.
- 6- PVC SCH 40 TEE-SST OR EL-ST.
- 7- PVC NON-PRESSURE LATERAL.
- 8- #4 REBAR STAKE WITH CHISELED END.
- 9- STAINLESS STEEL SPRINKLER TIE.
- 10- UNDISTURBED AND/OR COMPACTED SUB-GRADE.

NOTE:  
 A. SEE HEAD ANGLE ON SLOPE DETAIL WHERE APPROPRIATE.  
 B. VALCON 5000 SERIES FOR CPD MAINTAINED SYSTEMS.  
 C. R/W WARNING CAP AND/OR RISER WHENEVER RECYCLED WATER IS EMPLOYED. REBAR STAKE TO BE DRIVEN WITH CARE NOT TO DAMAGE LATERAL LINE OR SWING JOINT.

**H3** SHRUB ROTOR ON RISER SECTION - NO SCALE

**R/W IDENTIFICATION BY COLOR CODING:**  
 SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

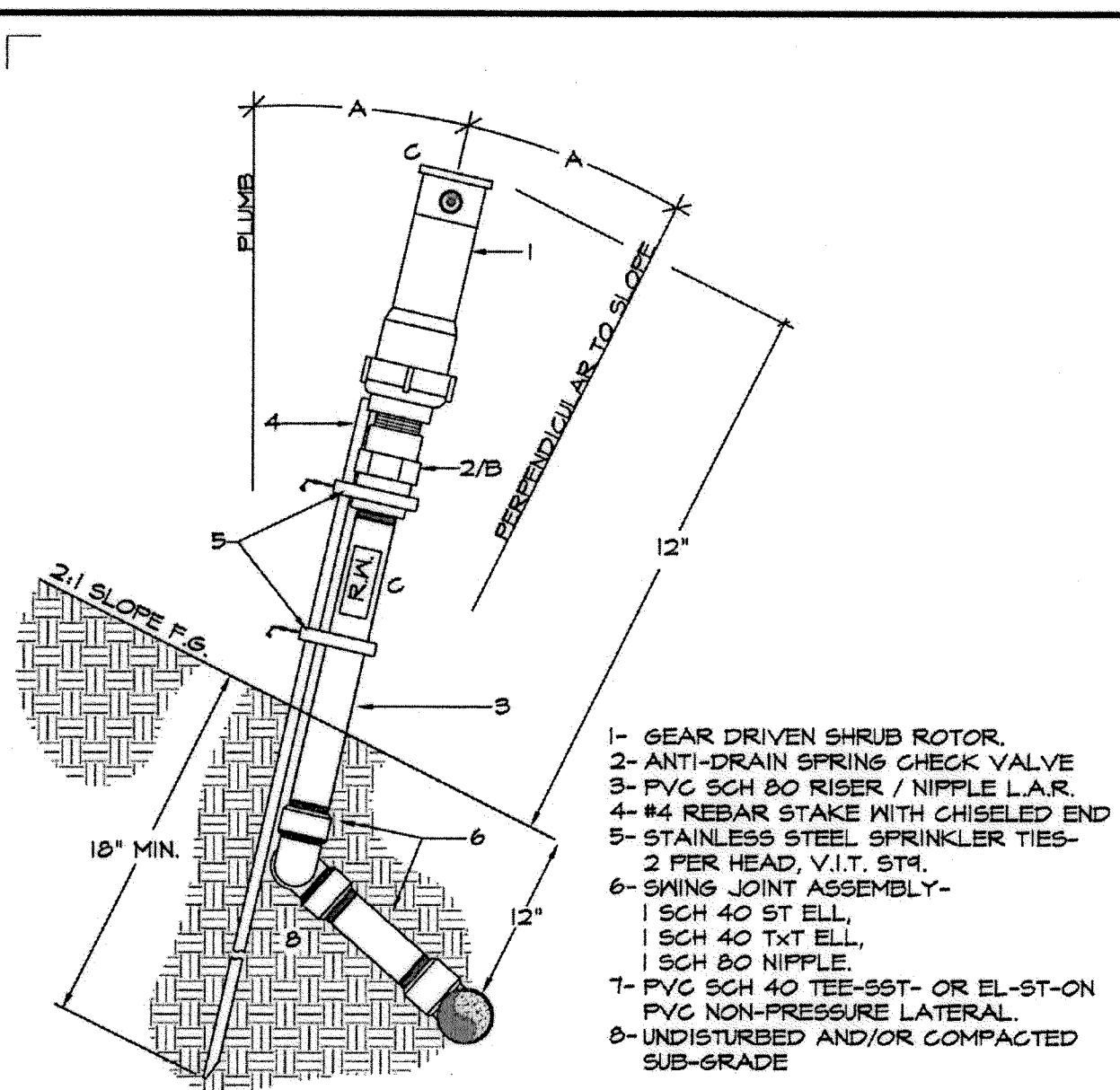
\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

OTAY WATER DISTRICT  
 PROJECT NO. 00944-060189  
 PC 626, 711 RIZ 680  
 DESIGNED BY: [Signature] DATE: 8/21/18  
 CHECKED BY: [Signature] DATE: 8/21/18  
 SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
 CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
 1-800-227-2600  
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
 BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600

"AS-BUILT"  
 SIGNED: [Signature] DATE: [Blank]  
 PRINT NAME: [Blank] R.L.A. # [Blank]  
 DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. [Blank]  
 REGISTERED LANDSCAPE ARCHITECT  
 THOMAS A. PICARD  
 9/20/18  
 CALIFORNIA  
 Tributary LA, Inc.  
 2725 Jefferson Street, Suite 14  
 Carlsbad, CA 92008  
 760.434.9300 office  
 760.434.9303 fax

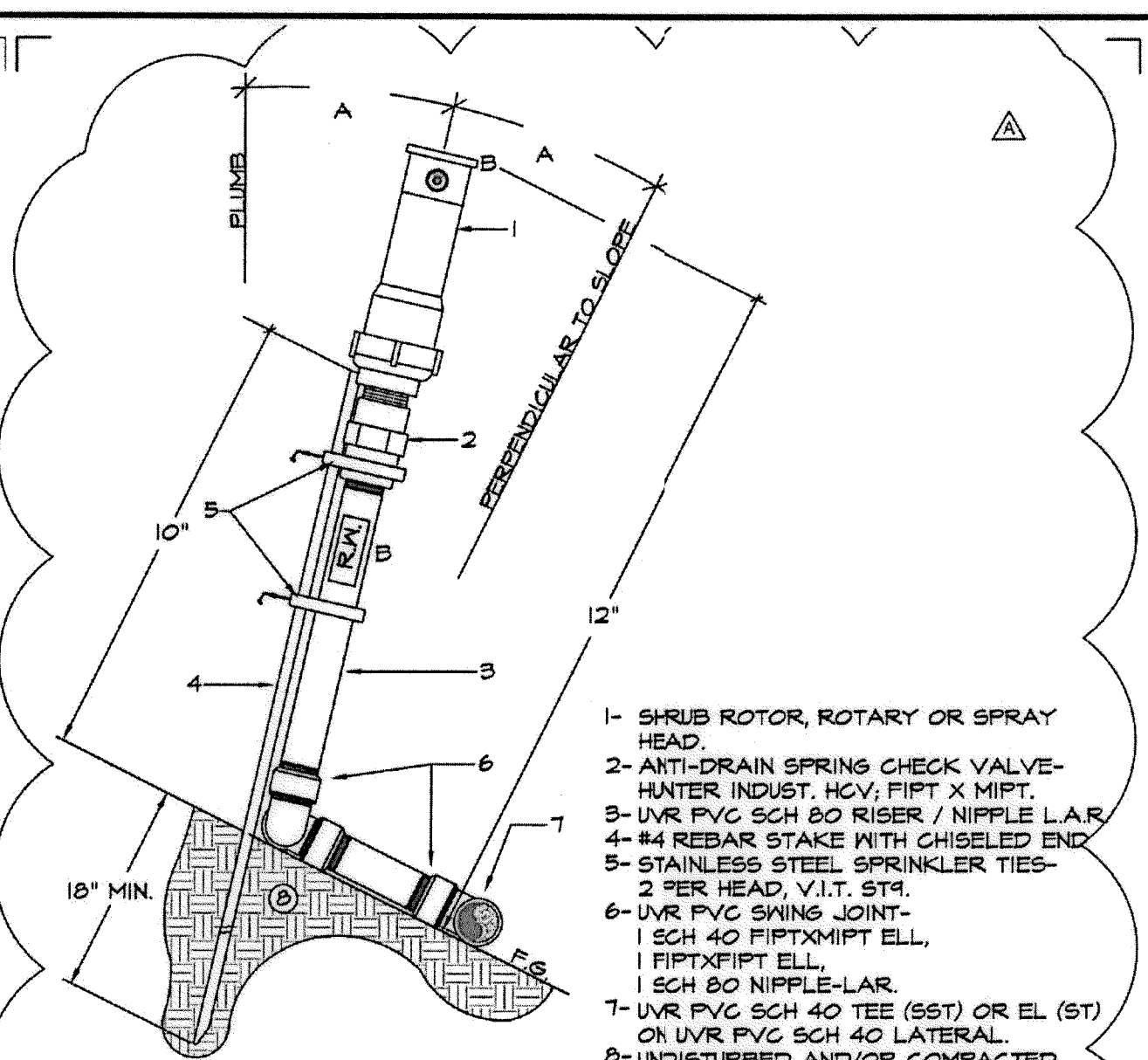
CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	CITY OF CHULA VISTA	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUT/OFF VALVES & INDUSTRIAL PAD SLOPES	7/2/18	[Signature]	DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" R/W PIPE EAST OF MIX OF MAIN ST. & HERITAGE RD ON ROCK MOUNTAIN 100' EASTERLY OF PRIMARIES TO HIGH SCHOOL & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PI# 1359 PER R.O.S. 1481) ELEV=829.318' (NAD 83)	Horizontal N/A Vertical N/A	[Blank]	Plans Prepared Under Supervision of	[Signature]	[Signature]	[Signature]	LANDSCAPE IRRIGATION SPECIFICATIONS FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 45 Sheet 45 of 88



- 1- GEAR DRIVEN SHRUB ROTOR.
- 2- ANTI-DRAIN SPRING CHECK VALVE
- 3- PVC SCH 80 RISER / NIPPLE L.A.R.
- 4- #4 REBAR STAKE WITH CHISELED END
- 5- STAINLESS STEEL SPRINKLER TIES- 2 PER HEAD, V.I.T. ST.
- 6- SWING JOINT ASSEMBLY- 1 SCH 40 ST ELL, 1 SCH 40 T&T ELL, 1 SCH 80 NIPPLE.
- 7- PVC SCH 40 TEE-90° OR EL-ST-ON PVC NON-PRESSURE LATERAL.
- 8- UNDISTURBED AND/OR COMPACTED SUB-GRADE

NOTE:  
 A. HEAD ANGLE ON SLOPE WILL BE BETWEEN PLUMB AND PERPENDICULAR TO SLOPED SURFACE. ANGLE WILL DEPEND ON TRAJECTORY OF NOZZLE. SWING JOINT WILL ALLOW ADJUSTMENT FOR ACTUAL CONDITIONS. SEE ALSO HEAD ANGLE ON SLOPE DETAIL WHERE APPROPRIATE.  
 B. VALCON 8000 SERIES FOR CFD MAINTAINED SYSTEMS. HUNTER INDUST. HOV, FIPT X MIPT FOR PRIVATELY MAINTAINED SYSTEMS.  
 C. R. M. WARNING CAP AND/OR RISER LABEL WHERE REQUIRED.

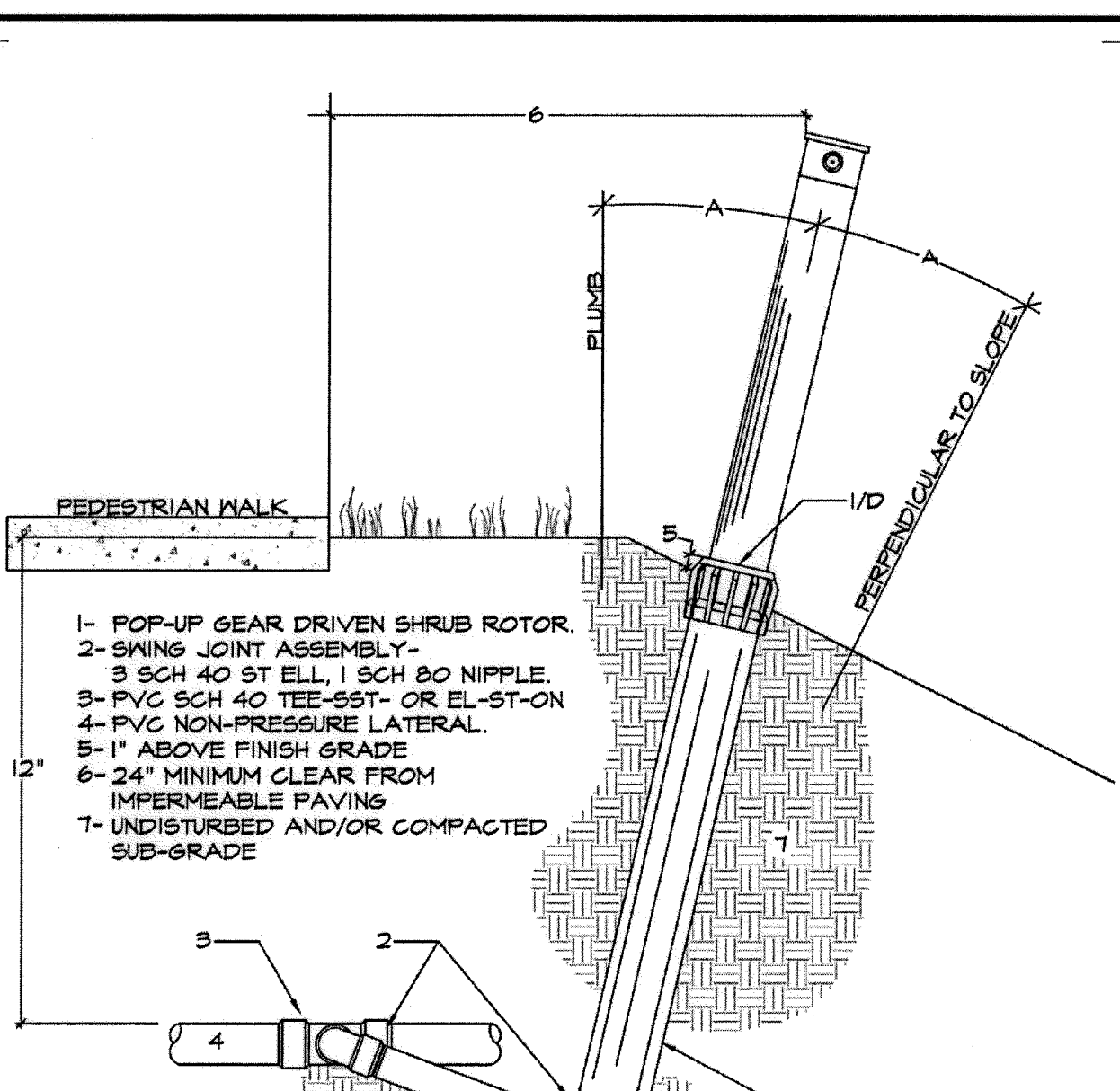
H4a GEAR DRIVEN SHRUB ROTOR ON SLOPE. SECTION - NO SCALE



- 1- SHRUB ROTOR, ROTARY OR SPRAY HEAD.
- 2- ANTI-DRAIN SPRING CHECK VALVE- HUNTER INDUST. HOV, FIPT X MIPT.
- 3- UVR PVC SCH 80 RISER / NIPPLE L.A.R.
- 4- #4 REBAR STAKE WITH CHISELED END
- 5- STAINLESS STEEL SPRINKLER TIES- 2 PER HEAD, V.I.T. ST.
- 6- UVR PVC SWING JOINT- 1 SCH 40 FIPTXFIPT ELL, 1 FIPTXFIPT ELL, 1 SCH 80 NIPPLE-LAR.
- 7- UVR PVC SCH 40 TEE (90°) OR EL (ST) ON UVR PVC SCH 40 LATERAL.
- 8- UNDISTURBED AND/OR COMPACTED SUB-GRADE

NOTE:  
 A. HEAD ANGLE ON SLOPE WILL BE BETWEEN PLUMB AND PERPENDICULAR TO SLOPED SURFACE. ANGLE WILL DEPEND ON TRAJECTORY OF NOZZLE. SWING JOINT WILL ALLOW ADJUSTMENT FOR ACTUAL CONDITIONS. SEE ALSO HEAD ANGLE DETAIL WHERE APPROPRIATE.  
 B. R. M. WARNING CAP AND/OR RISER LABEL WHERE REQUIRED.

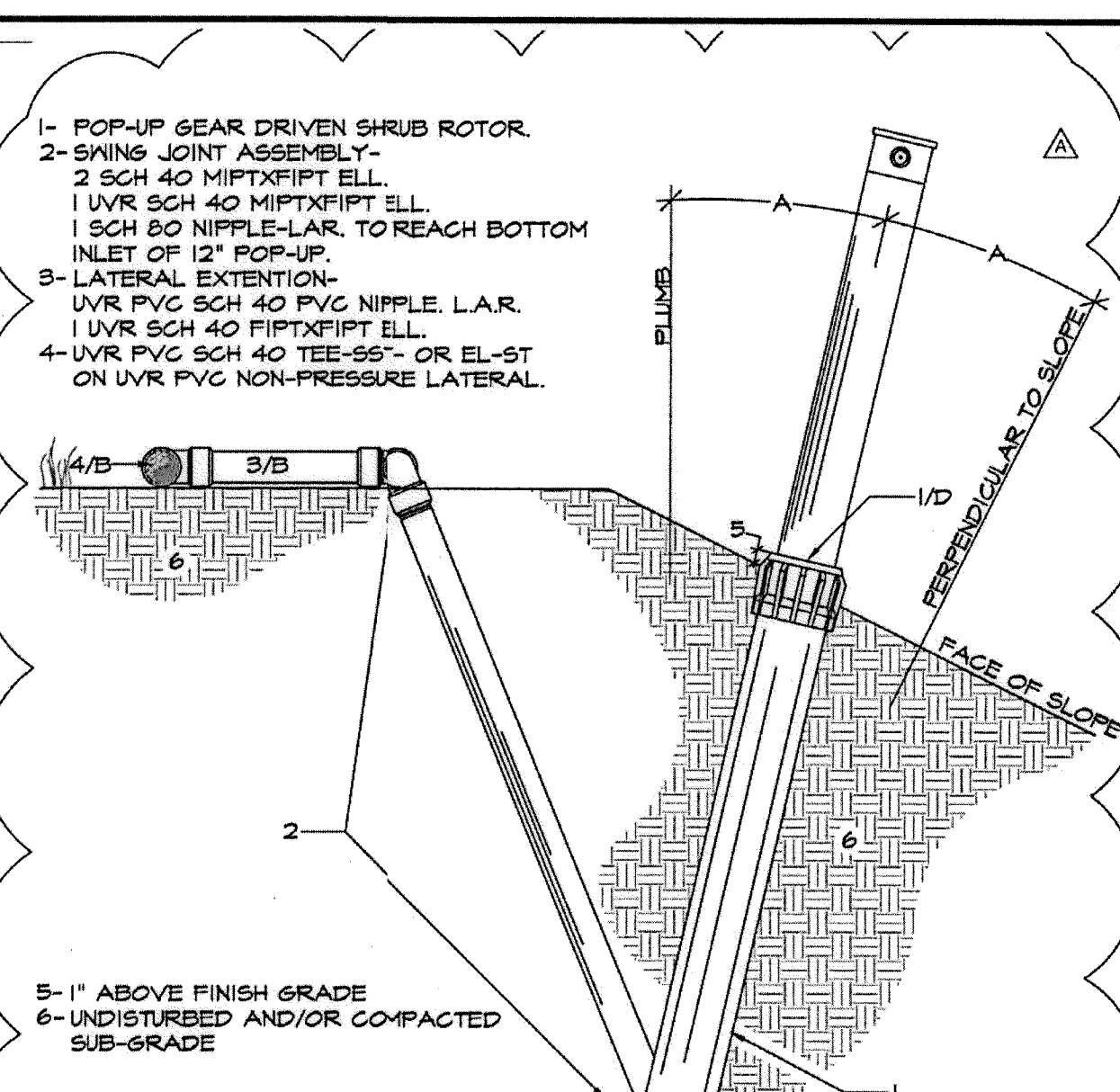
H4b SHRUB ROTOR, ROTATOR OR SPRAY HEAD ON RISER, ON-GRADE INSTALLATION. SECTION - NO SCALE



- 1- POP-UP GEAR DRIVEN SHRUB ROTOR.
- 2- SWING JOINT ASSEMBLY- 1 UVR SCH 40 FIPTXFIPT ELL, 1 SCH 80 NIPPLE-LAR, INLET OF 12" POP-UP.
- 3- LATERAL EXTENSION- UVR PVC SCH 40 PVC NIPPLE L.A.R.
- 4- UVR PVC SCH 40 TEE-90° OR EL-ST ON UVR PVC NON-PRESSURE LATERAL.
- 5- 1" ABOVE FINISH GRADE
- 6- 24" MINIMUM CLEAR FROM IMPERMEABLE PAVING
- 7- UNDISTURBED AND/OR COMPACTED SUB-GRADE

NOTE:  
 A. SWING JOINT AND LATERAL SHOWN ROTATED 90 DEG FROM SECTION VIEW.  
 B. OUTLET OF TEE OR ELBOW AND SWING JOINT TO BE SIZED EQUAL TO HEAD INLET.  
 C. HEAD ANGLE ON SLOPE WILL BE BETWEEN PLUMB AND PERPENDICULAR TO SLOPED SURFACE. ANGLE WILL DEPEND ON TRAJECTORY OF NOZZLE. SWING JOINT WILL ALLOW ADJUSTMENT FOR ACTUAL CONDITIONS. SEE ALSO HEAD ANGLE DETAIL DRAWING.  
 D. R. M. WARNING CAP AND/OR RISER LABEL WHERE REQUIRED.

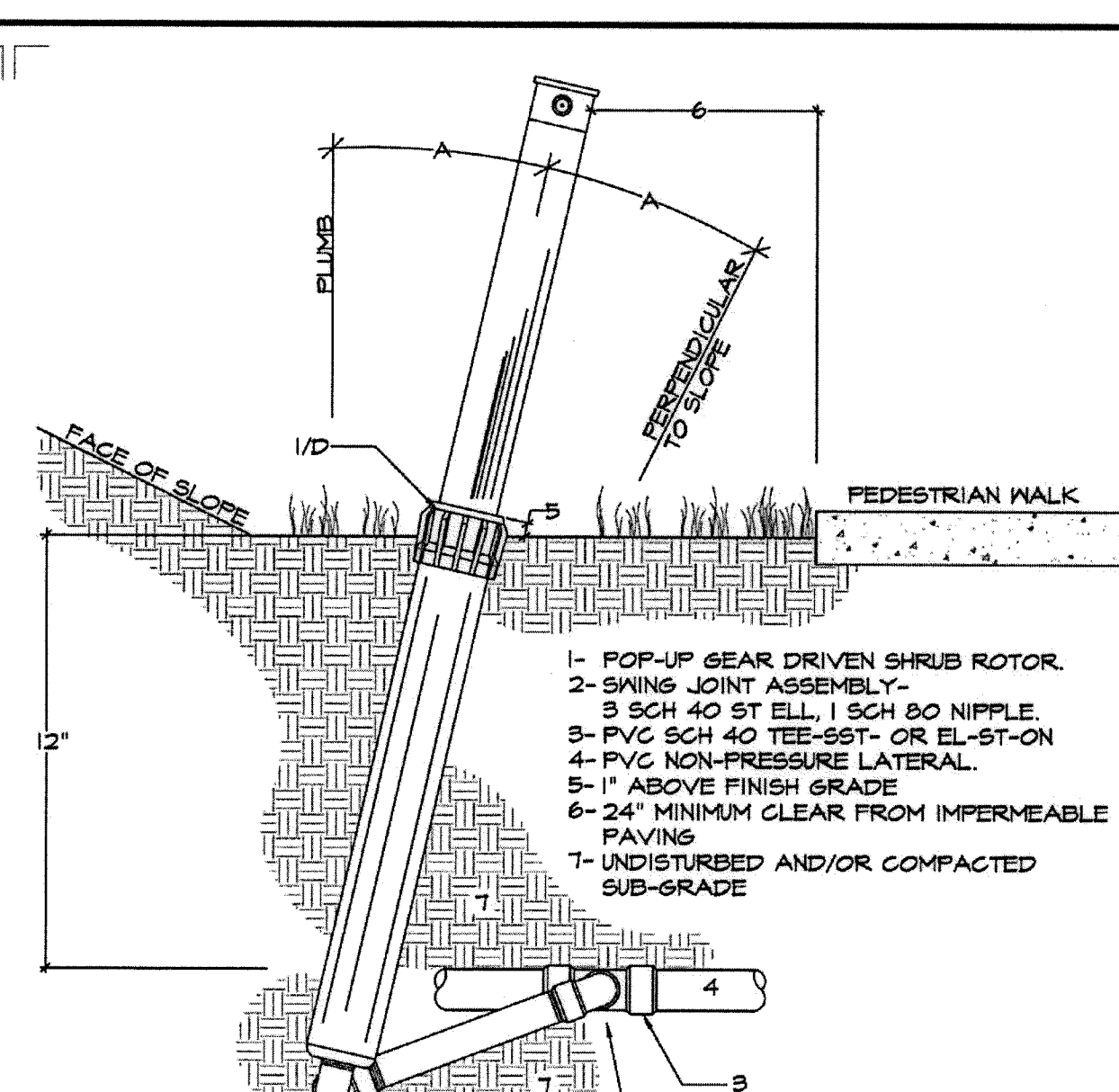
H5a POP-UP ROTOR OR SPRAY HEAD AT TOP OF SLOPE SECTION - NO SCALE



- 1- POP-UP GEAR DRIVEN SHRUB ROTOR.
- 2- SWING JOINT ASSEMBLY- 1 UVR SCH 40 FIPTXFIPT ELL, 1 SCH 80 NIPPLE-LAR, TO REACH BOTTOM INLET OF 12" POP-UP.
- 3- LATERAL EXTENSION- UVR PVC SCH 40 PVC NIPPLE L.A.R.
- 4- UVR PVC SCH 40 TEE-90° OR EL-ST ON UVR PVC NON-PRESSURE LATERAL.
- 5- 1" ABOVE FINISH GRADE
- 6- UNDISTURBED AND/OR COMPACTED SUB-GRADE

NOTE:  
 A. SWING JOINT AND LATERAL SHOWN ROTATED 90 DEG FROM SECTION VIEW.  
 B. OUTLET OF TEE OR ELBOW AND SWING JOINT TO BE SIZED EQUAL TO HEAD INLET.  
 C. HEAD ANGLE ON SLOPE WILL BE BETWEEN PLUMB AND PERPENDICULAR TO SLOPED SURFACE. ANGLE WILL DEPEND ON TRAJECTORY OF NOZZLE. SWING JOINT WILL ALLOW ADJUSTMENT FOR ACTUAL CONDITIONS. SEE ALSO HEAD ANGLE DETAIL DRAWING.  
 D. R. M. WARNING CAP AND/OR RISER LABEL WHERE REQUIRED.

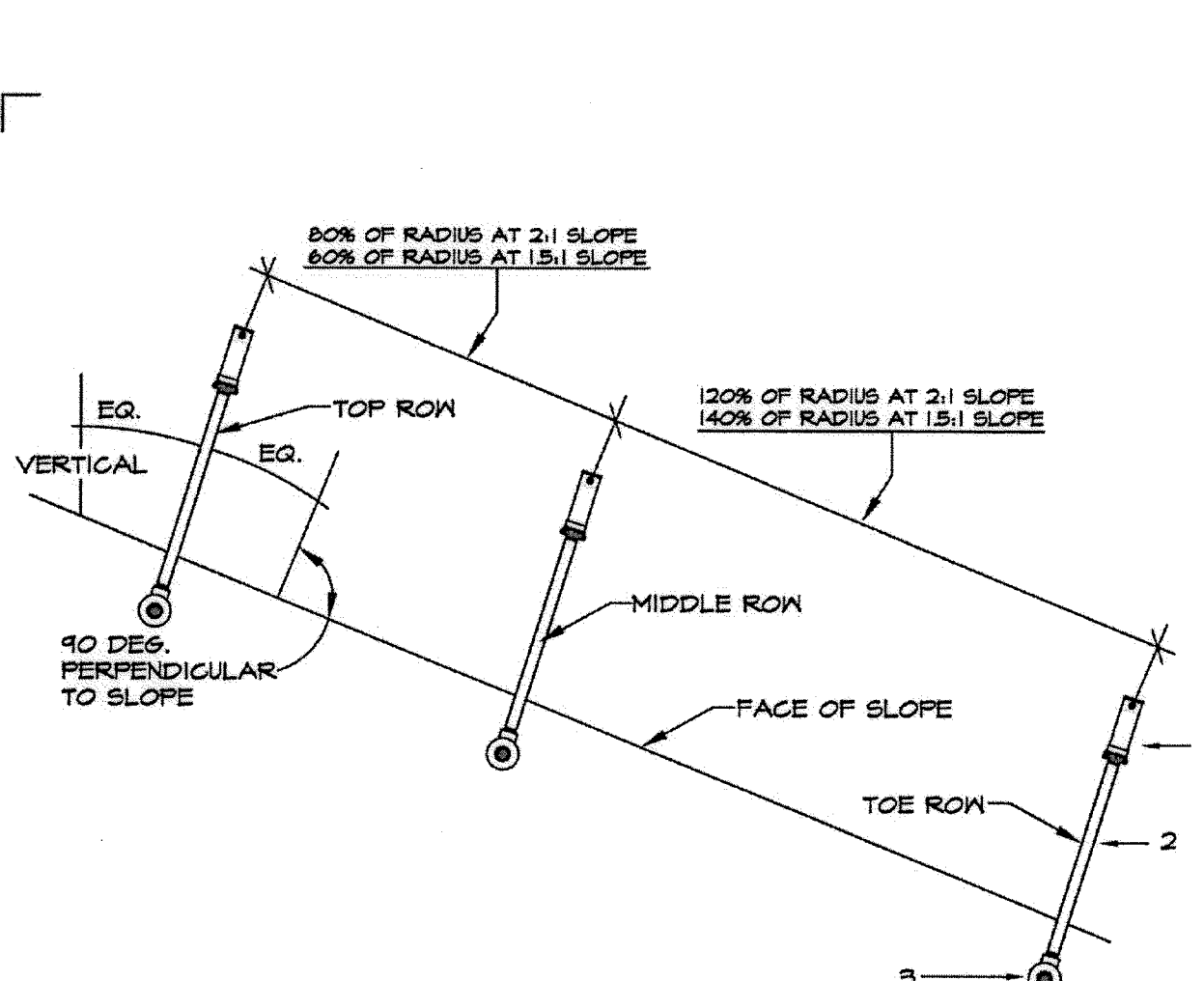
H5b POP-UP ROTOR OR SPRAY HEAD AT TOP OF SLOPE SECTION - NO SCALE



- 1- POP-UP GEAR DRIVEN SHRUB ROTOR.
- 2- SWING JOINT ASSEMBLY- 1 UVR SCH 40 FIPTXFIPT ELL, 1 SCH 80 NIPPLE-LAR, TO REACH BOTTOM INLET OF 12" POP-UP.
- 3- PVC SCH 40 TEE-90° OR EL-ST-ON
- 4- PVC NON-PRESSURE LATERAL.
- 5- 1" ABOVE FINISH GRADE
- 6- 24" MINIMUM CLEAR FROM IMPERMEABLE PAVING
- 7- UNDISTURBED AND/OR COMPACTED SUB-GRADE

NOTE:  
 A. SWING JOINT AND LATERAL SHOWN ROTATED 90 DEG FROM SECTION VIEW.  
 B. OUTLET OF TEE OR ELBOW AND SWING JOINT TO BE SIZED EQUAL TO HEAD INLET.  
 C. HEAD ANGLE ON SLOPE WILL BE BETWEEN PLUMB AND PERPENDICULAR TO SLOPED SURFACE. ANGLE WILL DEPEND ON TRAJECTORY OF NOZZLE. SWING JOINT WILL ALLOW ADJUSTMENT FOR ACTUAL CONDITIONS. SEE ALSO HEAD ANGLE DETAIL DRAWING.  
 D. R. M. WARNING CAP AND/OR RISER LABEL WHERE REQUIRED.

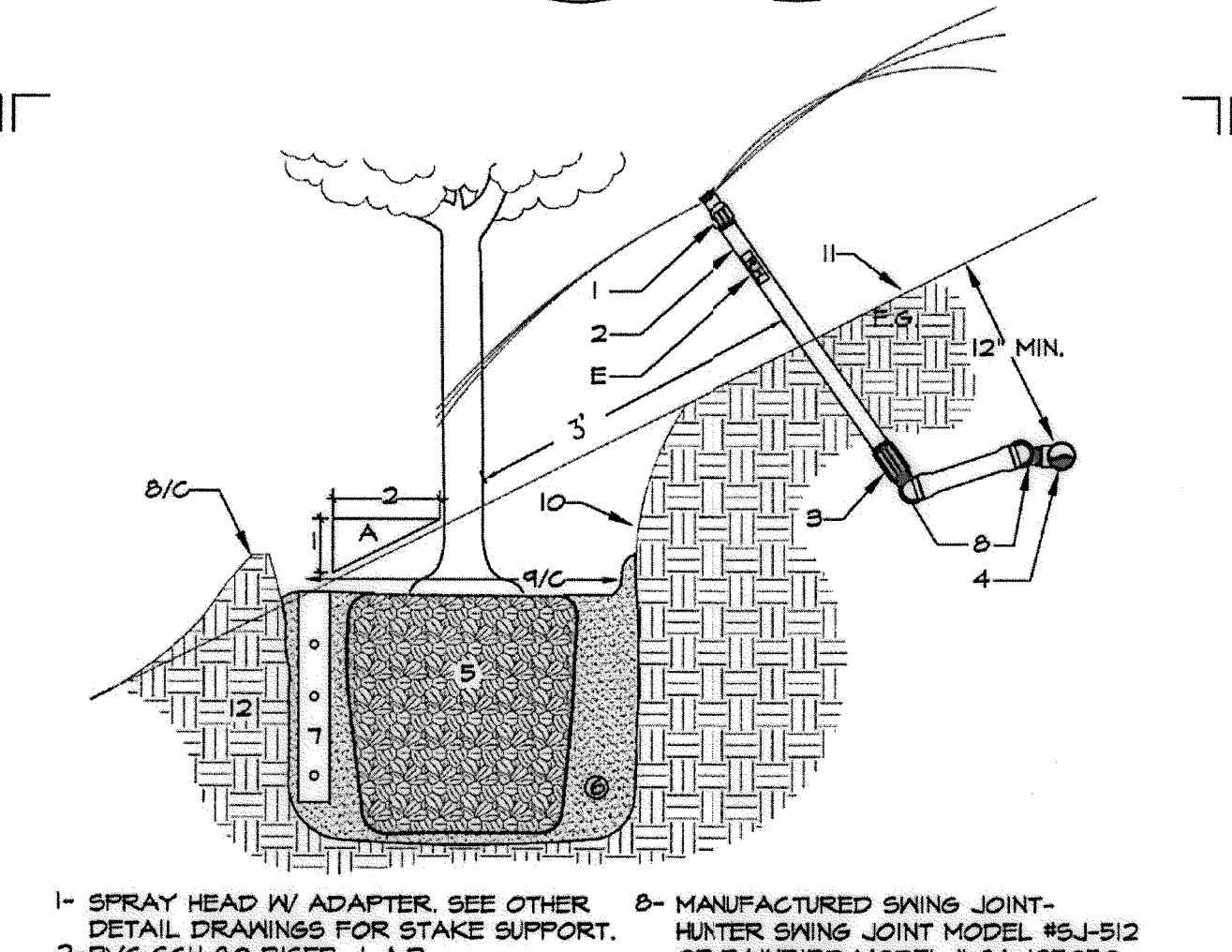
H6 POP-UP ROTOR OR SPRAY HEAD AT TOE OF SLOPE SECTION - NO SCALE



- 1- SPRINKLER HEAD AND CHECK VALVE.
- 2- PVC SCH 80 RISER.
- 3- PVC LATERAL.

NOTE:  
 A. ANGLE OF HEAD AND RISER ASSEMBLY TO BE BETWEEN VERTICAL AND PERPENDICULAR TO SLOPE. THIS IS A GENERAL RULE AND ADJUSTMENTS MAY BE NECESSARY IN THE FIELD DEPENDING ON ANGLE OF SLOPE AND PERFORMANCE OF SPRINKLER. THE INTENTION IS TO MAXIMIZE UNIFORMITY OF COVERAGE.  
 B. RELATIVE LATERAL SPACING ON SLOPE WITH THE MIDDLE ROW OR ROWS CLOSER TO THE TOP OF SLOPE THAN THE TOE. THIS APPLIES TO ALL MIDDLE ROW LATERALS, BUT AS A UNIT, THE SPACINGS BETWEEN ALL MIDDLE ROW LATERALS IS TO BE UNIFORM AND ALL ARE TO BE ADJUSTED UP THE SLOPE EQUALLY.

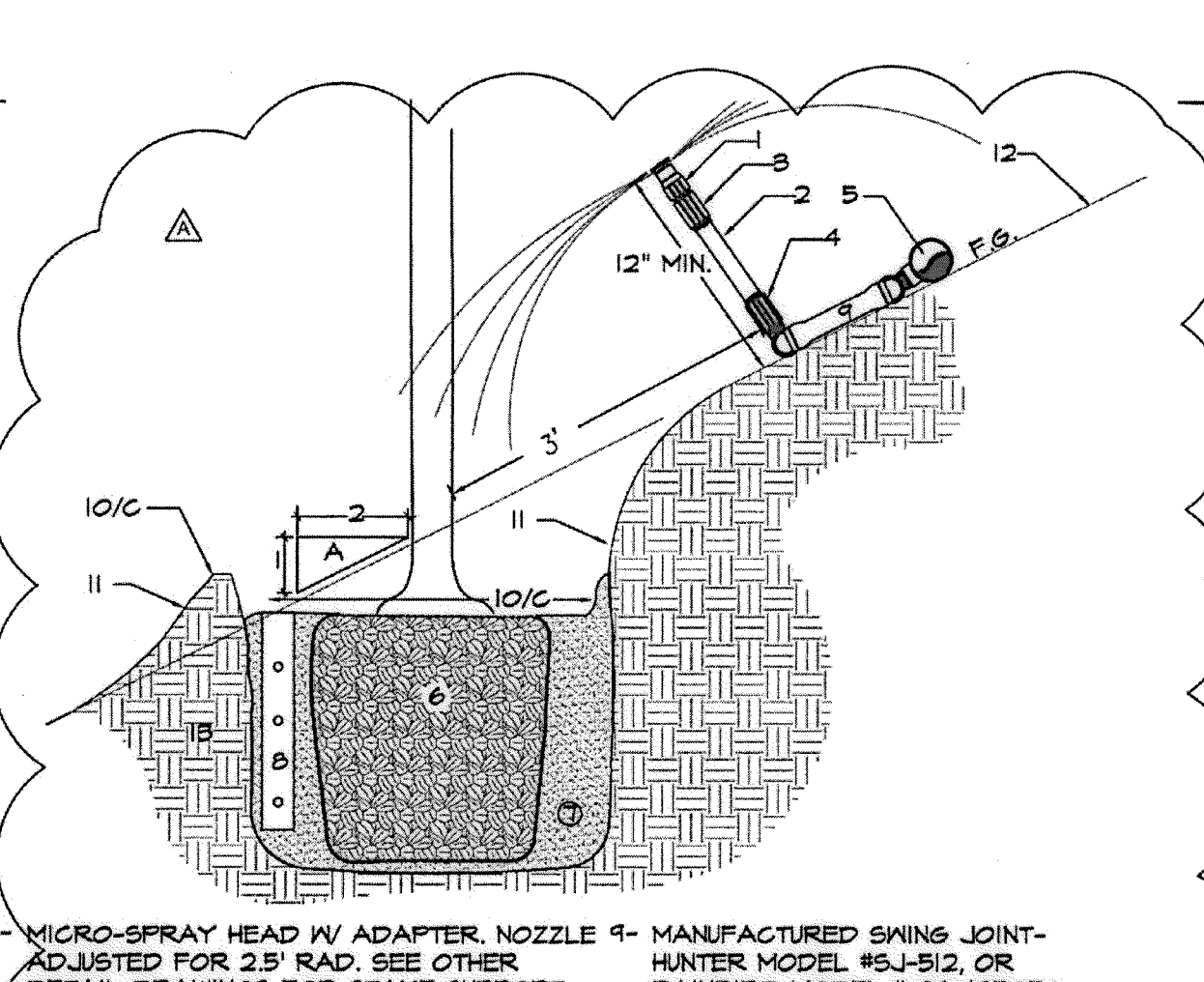
H7 HEAD ANGLE AND PLACEMENT FOR SLOPE CONDITION SECTION - NO SCALE



- 1- SPRAY HEAD W/ ADAPTER. SEE OTHER DETAIL DRAWINGS FOR STAKE SUPPORT.
- 2- PVC SCH 80 RISER- L.A.R.
- 3- SCH-80 TREADED COUPLING WITH PVC SCH 40 COUPLING FIPT X FIPT.
- 4- PVC SCH 40 SST TEE OR ST ELBOW ON NON-PRESSURE LATERAL RUN.
- 5- TREE ROOT BALL.
- 6- PLANTING PIT.
- 7- BREATHER TUBE-PER PLANTING SPECS.
- 8- MANUFACTURED SWING JOINT- HUNTER MODEL #SJ-5/2 OR RAINBIRD MODEL # SA-125050.
- 9- TREE BASIN.
- 10- EROSION RESISTANT FABRIC. SEE PLANTING PLAN AND DETAIL DRAWINGS.
- 11- FACE OF SLOPE.
- 12- COMPACTED OR UNDISTURBED SUBGRADE.

NOTE:  
 A. DETAIL DRAWING ILLUSTRATES METHOD OF SUPPLEMENTAL WATER APPLICATION FOR TREE ON 2:1 SLOPE CONDITION.  
 B. ALL PLANTING INFORMATION AND PLANTING RELATED IMAGE SHOWN FOR CONCEPT ONLY. SEE LANDSCAPE PLANTING PLAN, DETAIL DRAWINGS AND SPECIFICATIONS.  
 C. TREE BASIN MUST BE SUBSTANTIALLY CONSTRUCTED AND COMPACTED TO PROVIDE FOR DETENTION OF IRRIGATION WATER AT CONTRACTOR DETERMINED IRRIGATION INTERVAL AND RUN TIME.  
 D. GRADED SURFACE GREATER THAN 2:1 TO BE PROTECTED WITH USE OF MECHANICAL METHODS SUCH AS EROSION RESISTANT FABRIC. SEE PLANTING PLANS AND SPECS.  
 E. R. M. WARNING LABEL IF REQUIRED.

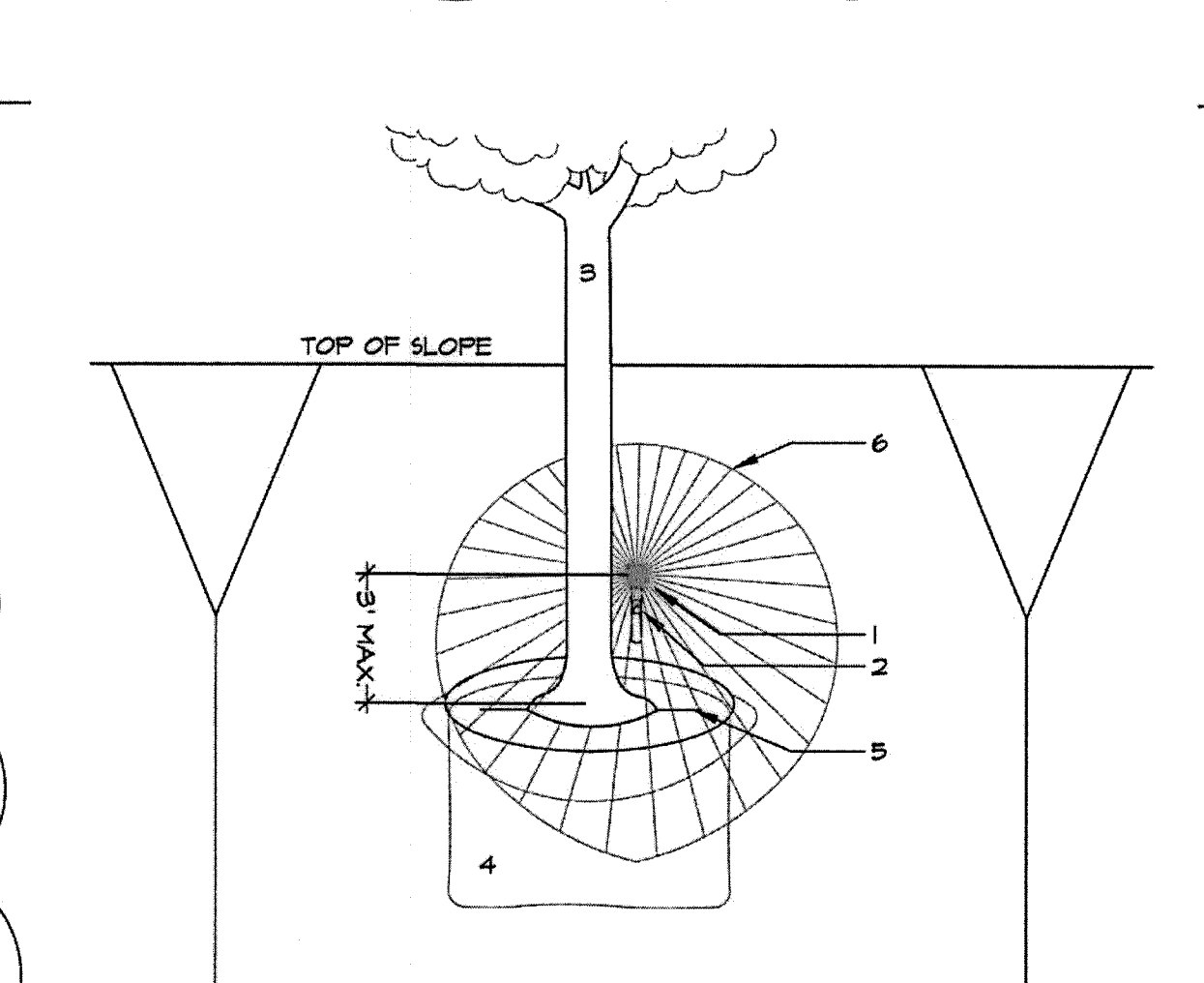
H8a SPRAY HEAD FOR SUPPLEMENTAL TREE IRRIGATION ON SLOPES SECTION - NO SCALE



- 1- MICRO-SPRAY HEAD W/ ADAPTER. NOZZLE ADJUSTED FOR 2 1/2" RAD. SEE OTHER DETAIL DRAWINGS FOR STAKE SUPPORT.
- 2- PVC SCH 80 NIPPLE AND RISER- L.A.R.
- 3- CHECK VALVE - FIPTXFIPT
- 4- SCH-80 TREADED COUPLING
- 5- PVC SCH 40 SST TEE OR ST ELBOW ON NON-PRESSURE LATERAL RUN.
- 6- TREE ROOT BALL.
- 7- PLANTING PIT.
- 8- BREATHER TUBE-PER PLANTING SPECS.
- 9- MANUFACTURED SWING JOINT- HUNTER MODEL #SJ-5/2 OR RAINBIRD MODEL # SA-125050.
- 10- TREE BASIN.
- 11- EROSION RESISTANT FABRIC. SEE PLANTING PLAN AND DETAIL DRAWINGS.
- 12- FACE OF SLOPE.
- 13- COMPACTED OR UNDISTURBED SUBGRADE.

NOTE:  
 A. DETAIL DRAWING ILLUSTRATES METHOD OF SUPPLEMENTAL WATER APPLICATION FOR TREE ON 2:1 SLOPE CONDITION.  
 B. ALL PLANTING INFORMATION AND PLANTING RELATED IMAGE SHOWN FOR CONCEPT ONLY. SEE LANDSCAPE PLANTING PLAN, DETAIL DRAWINGS AND SPECIFICATIONS.  
 C. TREE BASIN MUST BE SUBSTANTIALLY CONSTRUCTED AND COMPACTED TO PROVIDE FOR DETENTION OF IRRIGATION WATER AT CONTRACTOR DETERMINED IRRIGATION INTERVAL AND WATER TIME.  
 D. GRADED SURFACE GREATER THAN 2:1 TO BE PROTECTED WITH USE OF MECHANICAL METHODS SUCH AS EROSION RESISTANT FABRIC. SEE PLANTING PLANS AND SPECS.

H8b MICRO-SPRAY HEAD FOR SUPPLEMENTAL TREE IRRIGATION ON SLOPES SECTION - NO SCALE



- 1- SPRAY HEAD W/ ADAPTER.
- 2- PVC SCH 80 RISER (L.A.R.)
- 3- TREE.
- 4- PLANTING PIT.
- 5- TREE BASIN.
- 6- SPRAY PATTERN

NOTE:  
 A. DETAIL DRAWING ILLUSTRATES METHOD OF SUPPLEMENTAL WATER APPLICATION FOR TREE ON 2:1 SLOPE CONDITION.  
 B. ALL PLANTING INFORMATION AND RELATED IMAGE SHOWN FOR CONCEPT ONLY. SEE LANDSCAPE PLANTING PLAN, DETAIL DRAWINGS AND SPECIFICATIONS.  
 C. TREE BASIN MUST BE SUBSTANTIALLY CONSTRUCTED AND COMPACTED TO PROVIDE FOR DETENTION OF IRRIGATION WATER AT CONTRACTOR DETERMINED IRRIGATION INTERVAL AND RUN TIME.

H9 SPRAY HEAD FOR SUPPLEMENTAL TREE IRRIGATION ON SLOPES SECTION - NO SCALE

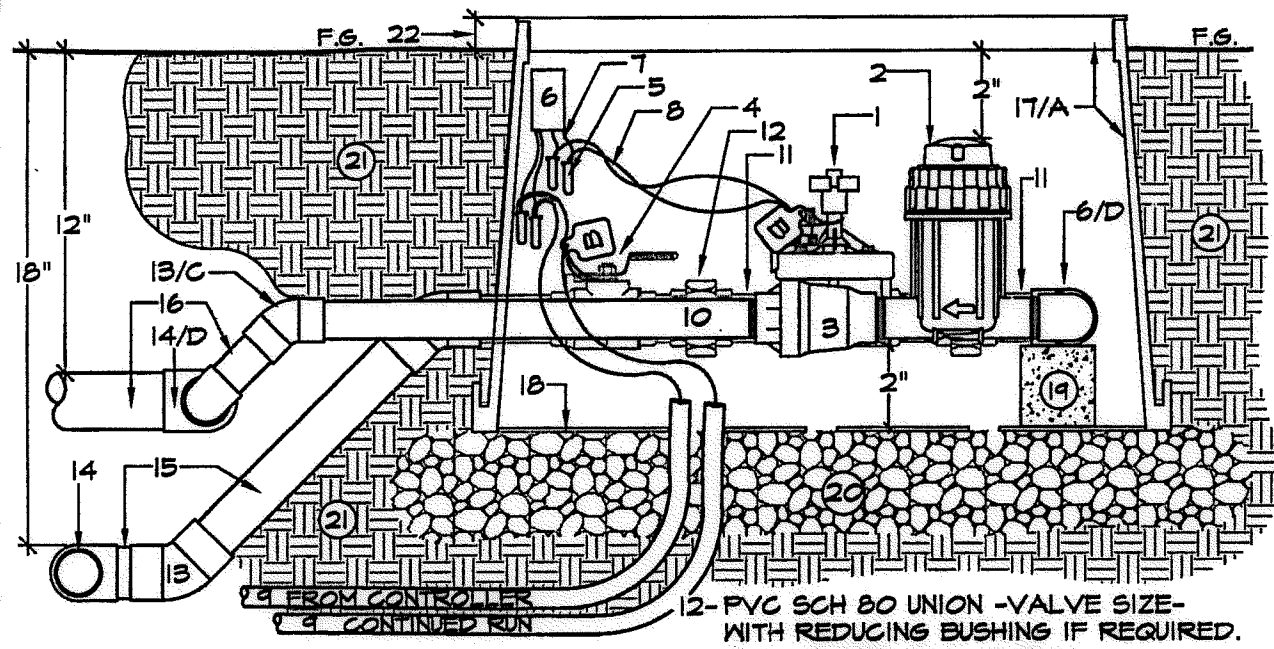
R.M. IDENTIFICATION BY COLOR CODING:  
 SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RINGS OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

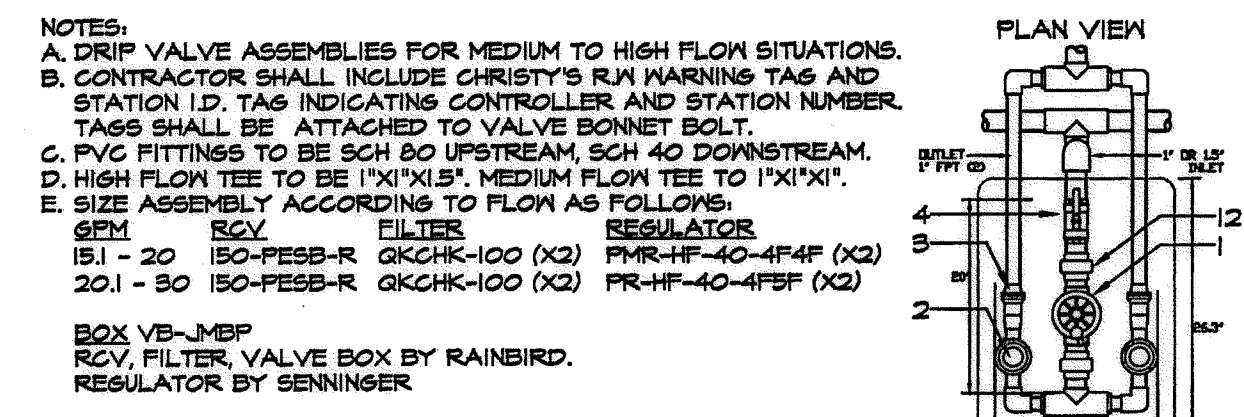
OTAY WATER DISTRICT PROJECT NO. 00944-060189 PZ 624, 711 RZ 620		IT'S THE LAW! DIAL BEFORE YOU DIG! BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UTILITY UNDERGROUND SERVICE ALERT AT 1-800-227-2600	"AS-BUILT"		REGISTERED LANDSCAPE ARCHITECT THOMAS A. PICARD 9/30/19 CALIFORNIA	Tributary LA, Inc. 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 15 FEB 18	SCALE: NO SCALE	JOB NO. 15024	DRAWN BY: T.P./T.G.	W.O. NO. OR-3001G
REVIEWED BY: [Signature] DATE: [Date]			SIGNED: [Signature] DATE: [Date]				PRINT NAME: R.L.A. #	DISCIPLINE: LANDSCAPE ARCHITECT	REGIST. EXP.	CITY OF CHULA VISTA LANDSCAPE IRRIGATION SPECIFICATIONS FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	Drawing No.
Contractor	16026-01 - 16026-93	HUNSAKER & ASSOC.	ADD SHUTOFF VALVES & INDUSTRIAL PAD SPACES	7/3/18	[Signature]	DESK MARK "SD CITY ENGR." IN 3/4" X 1/2" OR ROCK MOUNTAIN "100" EASTERS OF PERMANENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (P# 1359 PER R.O.S. 1481) ELEV=925.31P (NAD83)	Horizontal N/A Vertical N/A	Field	Plans Prepared	Under Supervision of	6/1/18	Kelly Broughton Director of Development Services or designee.	16050 - 46

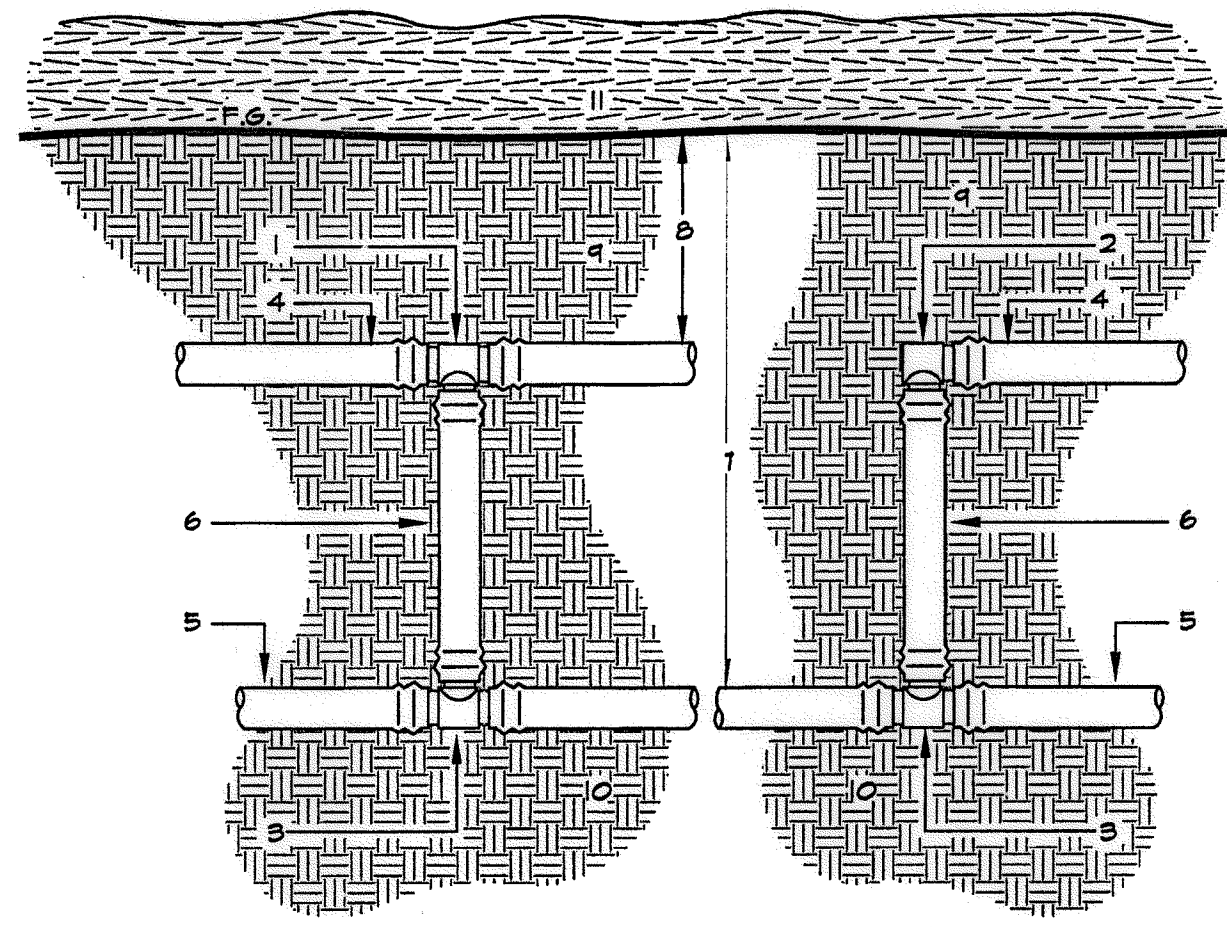
Print Date: 15 FEB 18 OWD WO# D0944-060189 OWD Permits & Erosion Control



- 1- REMOTE CONTROL VALVE.
- 2- QUICK CHECK FILTER- X2.
- 3- FIRE SET PRV- X2
- 4- ISOLATION BALL VALVE- EQUAL TO RCV SIZE
- 5- WATERPROOF WIRE SPLICE- 3M DBY.
- 6- STATION DECODER
- 7- DECODER LEADS COIL IV 2' EXTRA WIRE.
- 8- SOLENOID WIRES
- 9- NETAFIM SINGLE NET CABLE AND CONDUIT OR SCH 40 PVC WITH DECODER CABLE
- 10- PVC SCH 80 NIPPLE -TDE- L.A.R.
- 11- PVC SCH 80 NIPPLE -TDE- L.A.R. BEHIND
- 12- PVC SCH 80 UNION -VALVE SIZE- WITH REDUCING BUSHING IF REQUIRED.
- 13- PVC 45 DEG. ELL -TYP 6X.
- 14- PVC TEE -SCH 80 ON MAINLINE. SCH 40 ON LATERAL LINE
- 15- PVC PRESSURE PIPE
- 16- PVC NON-PRESSURE PIPE
- 17- JUMBO RECTANGULAR VALVE BOX W/ PURPLE LOCKING LID.
- 18- FILTER FABRIC.
- 19- BRICK OR BLOCK SUPPORT
- 20- 3/8" GRAVEL SUMP AND LEVELING PAD, 5" DEEP, MINIMUM.
- 21- UNDISTURBED/COMPACTED SUBGRADE.
- 22- FLUSH IN TURF, 1" IN GROUND COVER.

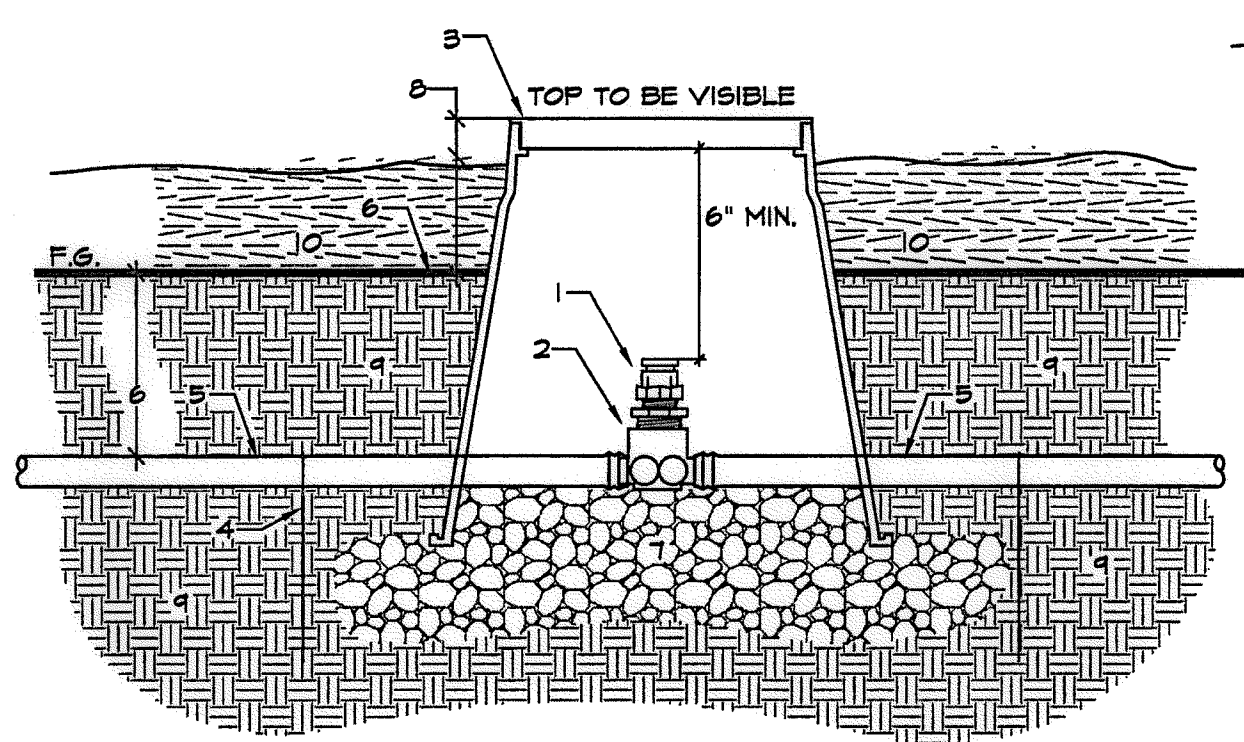


**J2** DRIP IRRIGATION RCV ASSEMBLY MEDIUM AND HIGH FLOW SITUATIONS



- 1- XFD 17 MM INSERT TEE
- 2- XFD 17 MM INSERT ELL
- 3- XFD 17 MM INSERT TEE OR ELBOW ON MANIFOLD
- 4- XFS DRIFLINE- SEE SPECS & LEGEND.
- 5- XFD BLANK TUBING - INLET OR EXHAUST MANIFOLD.
- 6- XFD BLANK POLY TUBING RISER
- 7- AT PVC LATERAL LINE DEPTH
- 8- 45° TO 5° TOP SOIL COVER TO TOP OF DRIFLINE
- 9- TOP SOIL COMPACTED TO PLANTING SPECIFICATIONS
- 10- UNDISTURBED/COMPACTED SOIL
- 11- MULCH - SEE PLANTING PLANS

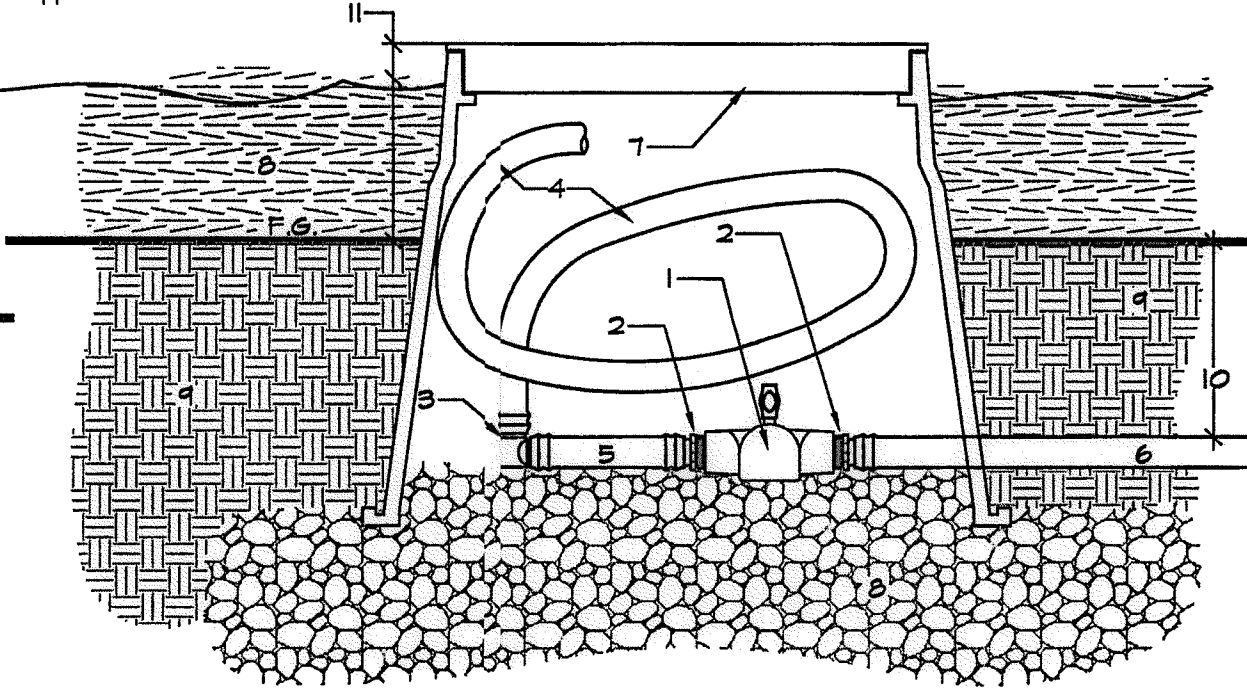
**H1** START CONNECTION POLY SUB-GRADE



- 1- RAINBIRD ARVCSO RELIEF VALVE.
- 2- RAINBIRD XFD-TFA-075 TEE.
- 3- 7" ROUND VALVE BOX.
- 4- SECURE DRIFLINE WITH RAINBIRD TDS-050 TIE DOWN STAKES, 5' O.C.
- 5- XFS DRIFLINE OR BLANK TUBING ON COMMON MANIFOLD.
- 6- 4" MINIMUM COVER. SEE OTHER DETAIL AND SPECIFICATIONS FOR COVER DEPTH.
- 7- 15" CRUSHED GRAVEL LEVELING PAD AND SUMP. FILL TO SUPPORT BASE OF VALVE.
- 8- BOX TO BE EXPOSED ABOVE MULCH. SEE PLANTING PLAN FOR DEPTH OF MULCH TO DETERMINE DEPTH OF BOX BELOW FINISH GRADE.
- 9- UNDISTURBED OR COMPACTED SUB-GRADE.
- 10- MULCH.

NOTE:  
 A. AIR/VAC TO BE INSTALLED AT HIGHEST LOCAL ELEVATION ON MANIFOLD LINE SO THAT ALL LATERALS SEE VACUUM RELIEF. SEE DRIP LAYOUT DETAILS.  
 B. THREAD AIR VACUUM RELIEF VALVE INTO ADAPTOR TEE WITH TEFLON TAPE.  
 C. NOTCH SIDE OF BOX FOR UNOBSTRUCTED LINE ACCESS.  
 D. PROVIDE CONT. SUPPORT OF TUBING & AIR/VACUUM VALVE.  
 E. BRAND 'AVR' CONTROLLER AND STATION NUMBER INTO VALVE BOX LID. REFER TO VALVE BOX I.D. DETAIL DRAWINGS.

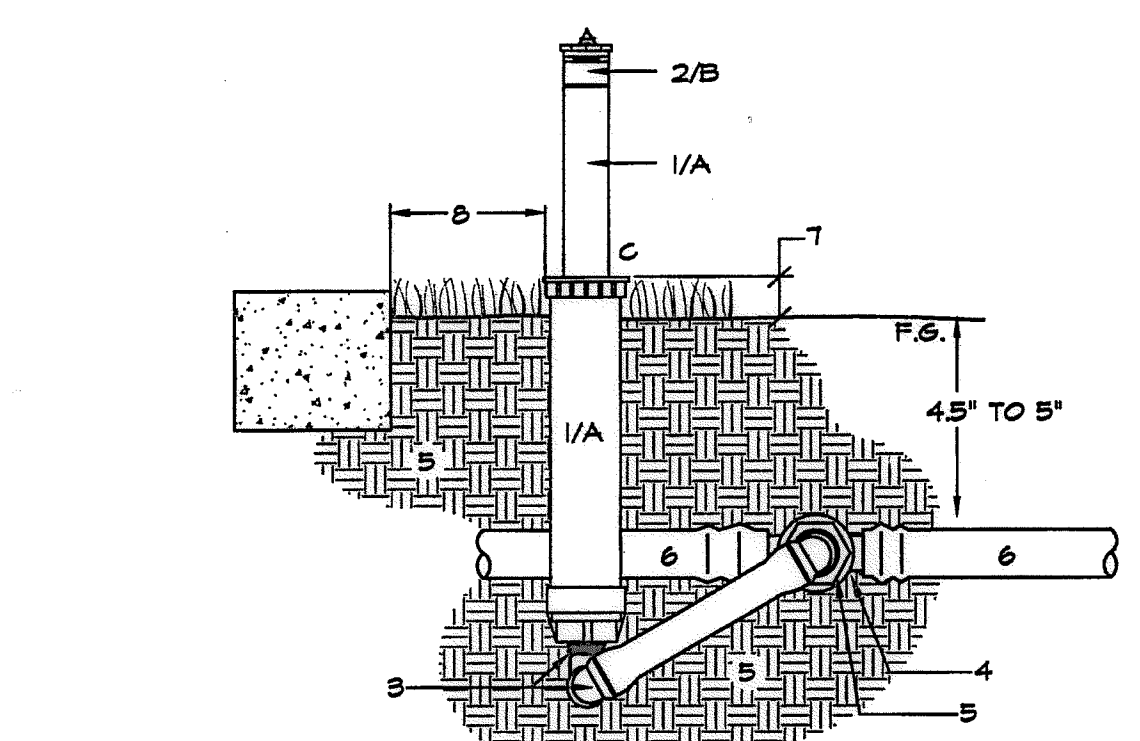
**H2** AIR/VACUUM RELIEF FOR DRIFLINE SUB-GRADE IN SHRUB/ GROUND COVER PLANTING



- 1- 5" PVC BALL VALVE - KBI EBY-0500 OR EQUAL
- 2- RAINBIRD XFD-MA-050 INSERT ADAPTER
- 3- RAINBIRD XFD-ELBOW INSERT FITTING
- 4- 1/2" X 5/8" I.D. FLEX PVC HOSE
- 5- RAINBIRD XFS OR XFD DRIP TUBING
- 6- BLANK TUBING FLUSH MANIFOLD.
- 7- 10" ROUND VALVE BOX.
- 8- 15" CRUSHED GRAVEL LEVELING PAD AND SUMP. FILL TO SUPPORT BASE OF VALVE.
- 9- UNDISTURBED OR COMPACTED SUB-GRADE
- 10- SEE OTHER DETAILS, NOTES AND SPECIFICATIONS FOR DRIFLINE INSTALLATION AND DEPTH OF COVER.
- 11- BOX TO BE EXPOSED ABOVE MULCH. SEE PLANTING PLAN FOR DEPTH OF MULCH TO DETERMINE DEPTH OF BOX BELOW FINISH GRADE.

NOTE:  
 A. BRAND 'DBO' - DRIP BLOWOUT, CONTROLLER AND STATION NUMBER INTO VALVE BOX LID. REFER TO TECHNICAL SPECIFICATIONS.

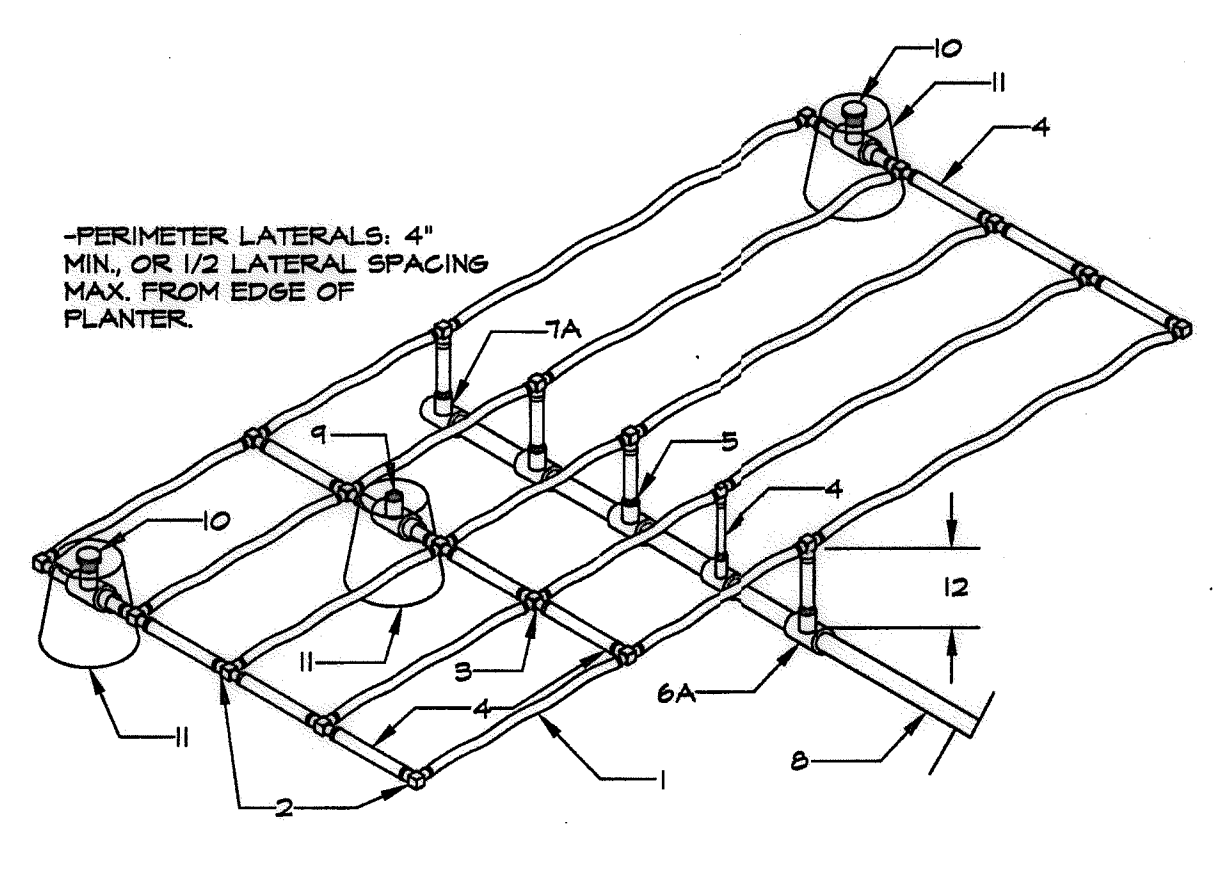
**H3** DRIP LINE BLOW-OUT (MANUAL)



- 1- 6" POP-UP SPRAY HEAD
- 2- 17A- ADJUSTABLE ARC NOZZLE
- 3- MANUFACTURED SWING JOINT- HUNTER SWING JOINT MODEL #S-1506
- 4- HUNTER PLD-075 TEE INSERT TEE
- 5- SCH 40 .75"x5" TT BUSHING.
- 6- POLYETHYLENE BLANK TUBING-17MM.
- 7- AT FINISH GRADE IN TURF; 2" IN SHRUB AREA.
- 8- 6" TO 10" FROM HARDSCAPE

NOTE:  
 A. POP-UP BODY TO BE WITHOUT SIDE INLET  
 B. NOZZLE TO BE ADJUSTED CLOSED DURING NORMAL OPERATION, OPENED DURING SYSTEM FLUSHING MAINTENANCE OPERATION.  
 C. RECYCLED WATER WARNING CAP IF REQUIRED.

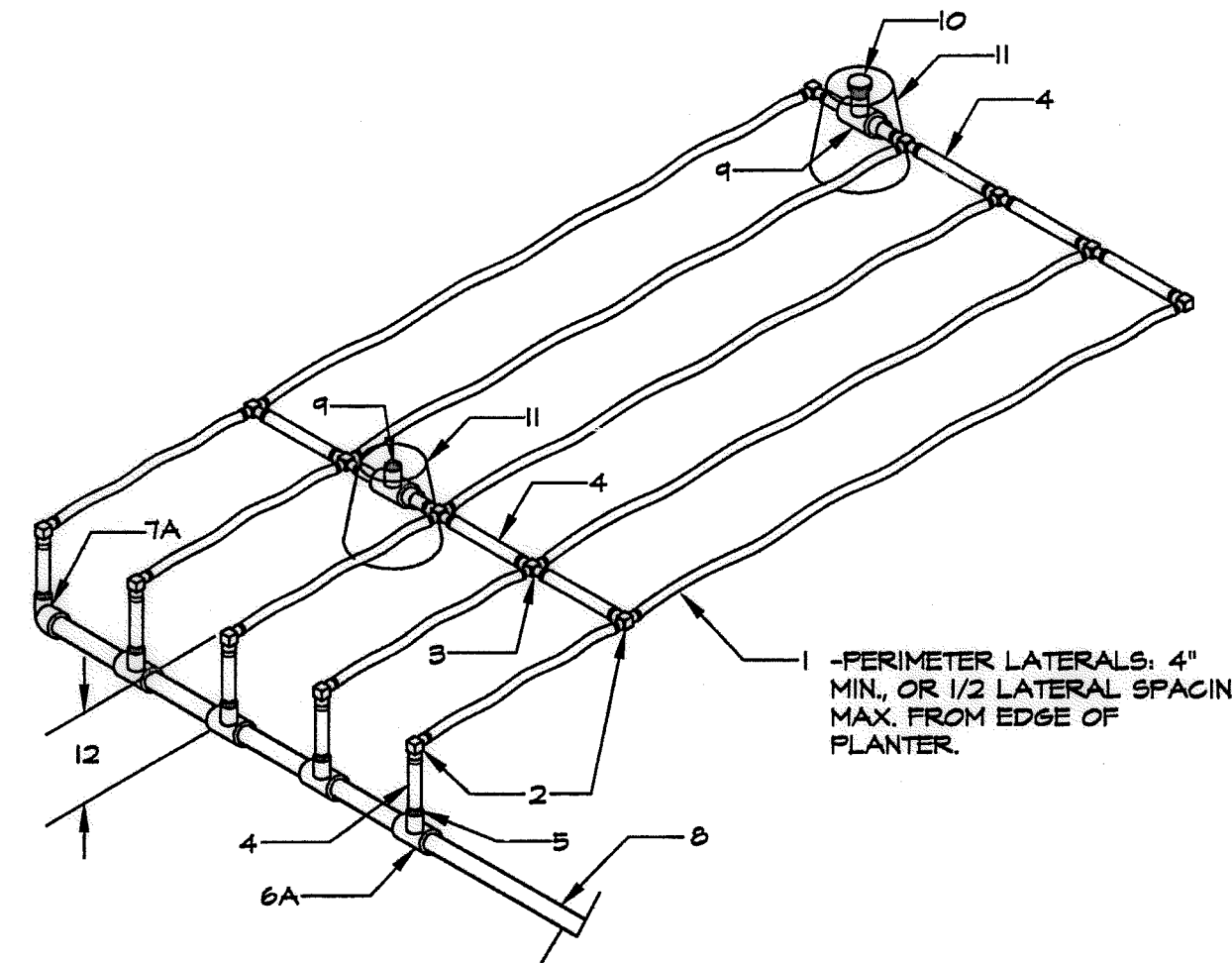
**H4** DRIP SYSTEM OPERATION INDICATOR



- 1- XFS DRIFLINE- SEE SPECS & LEGEND.
- 2- XFD 17 MM INSERT TEE OR ELL.
- 3- XFD 17 MM INSERT CROSS
- 4- BLANK DRIFLINE TUBING
- 5- XFD-MA-050 X 1/2" MPT ADAPTER
- 6- PVC TEE - SXSx1/2" THREADED.
- 7- PVC ELL - SX1/2" THREADED
- 8- PVC PIPING INLET OR EXHAUST MANIFOLD.
- 9- RAINBIRD AR VALVE KIT
- 10- NETAFIM TLOSOMPV-1 LINE FLUSH VALVE
- 11- 10" ROUND VALVE BOX- SEE ACCOMPANYING DETAILS FOR INSTALLATION
- 12- BURY DEPTH- SEE NOTES AND SPECS

NOTE:  
 A. RUN OF ELL OR TEE TO BE SIZED EQUAL TO LATERAL.  
 B. DRIP-LINES TO BE LAID FLAT AND SECURED TO SUBGRADE WITH STAPLES AT 5' CENTERS PRIOR TO BACK-FILL WITH MIN. 4" / MAX. 5" COVER.  
 C. USE CAUTION WHEN SECURING DRIFLINE WITH STAPLES. DRIF-LINE SHALL NOT BE OBSTRUCTED, KINKED, OR STRETCHED.

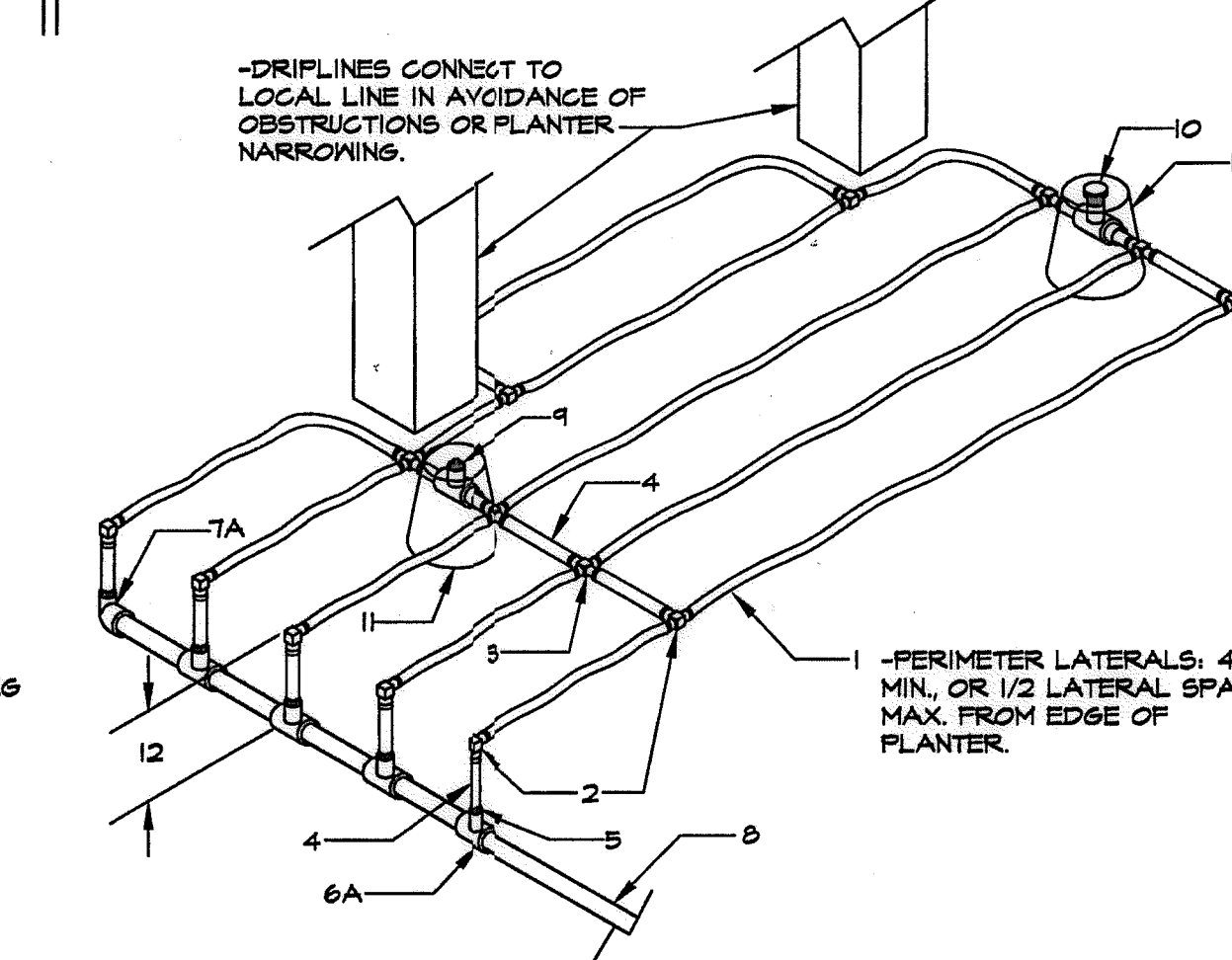
**H5** START CONNECTION CENTER FEED PVC TO POLY SUB-GRADE



- 1- XFS DRIFLINE- SEE SPECS & LEGEND.
- 2- XFD INSERT TEE OR ELL.
- 3- XFD INSERT CROSS
- 4- BLANK DRIFLINE TUBING
- 5- RAINBIRD XFD-MA-050 X 1/2" MPT ADAPTER
- 6- PVC TEE - SXSx1/2" THREADED.
- 7- PVC ELL - SX1/2" THREADED
- 8- PVC PIPING INLET OR EXHAUST MANIFOLD.
- 9- RAINBIRD AR VALVE KIT
- 10- NETAFIM TLOSOMPV-1 LINE FLUSH VALVE
- 11- 10" ROUND VALVE BOX- SEE ACCOMPANYING DETAILS FOR INSTALLATION
- 12- BURY DEPTH- SEE NOTES AND SPECS

NOTE:  
 A. RUN OF ELL OR TEE TO BE SIZED EQUAL TO LATERAL.  
 B. DRIP-LINES TO BE LAID FLAT AND SECURED TO SUBGRADE WITH STAPLES AT 5' CENTERS PRIOR TO BACK-FILL WITH MIN. 4" / MAX. 5" COVER.  
 C. USE CAUTION WHEN SECURING DRIFLINE WITH STAPLES. DRIF-LINE SHALL NOT BE OBSTRUCTED, KINKED, OR STRETCHED.

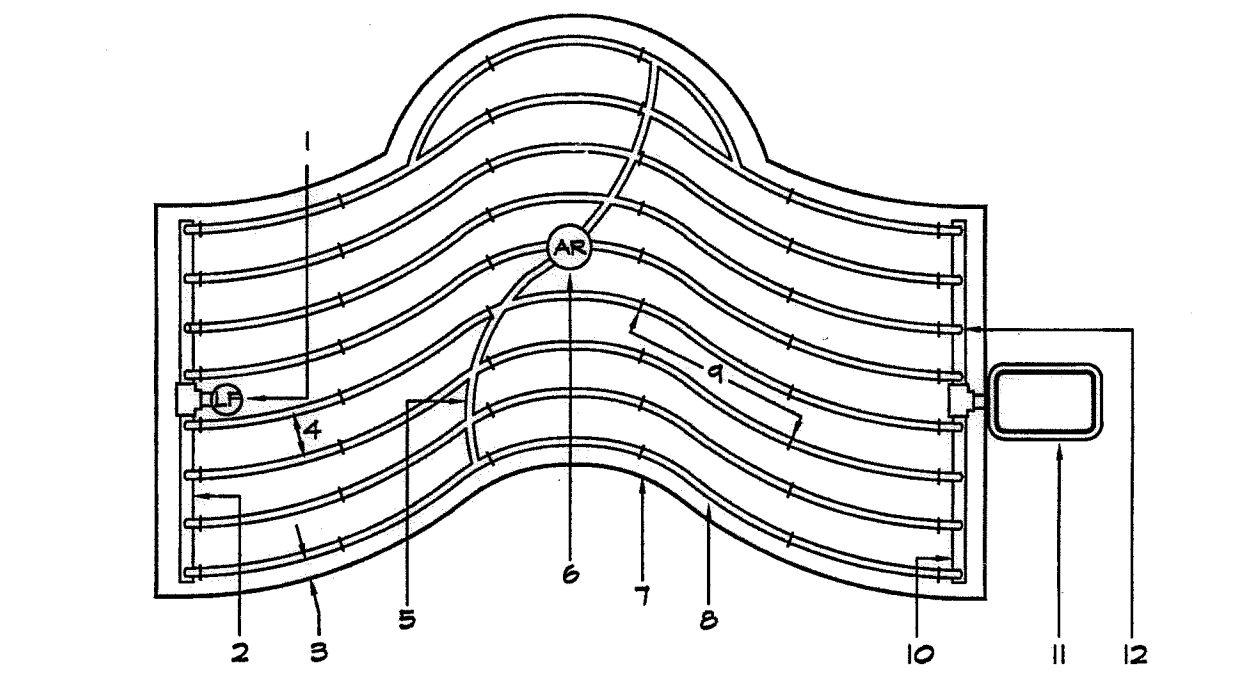
**H6** START CONNECTION END FEED PVC TO POLY SUB-GRADE



- 1- XFS DRIFLINE- SEE SPECS & LEGEND.
- 2- XFD INSERT TEE OR ELL.
- 3- XFD INSERT CROSS
- 4- BLANK DRIFLINE TUBING
- 5- RAINBIRD XFD-MA-050 X 1/2" MPT ADAPTER
- 6- PVC TEE - SXSx1/2" THREADED.
- 7- PVC ELL - SX1/2" THREADED
- 8- PVC PIPING INLET OR EXHAUST MANIFOLD.
- 9- RAINBIRD AR VALVE KIT
- 10- NETAFIM TLOSOMPV-1 LINE FLUSH VALVE
- 11- 10" ROUND VALVE BOX- SEE ACCOMPANYING DETAILS FOR INSTALLATION
- 12- BURY DEPTH- SEE NOTES AND SPECS

NOTE:  
 A. RUN OF ELL OR TEE TO BE SIZED EQUAL TO LATERAL.  
 B. DRIP-LINES TO BE LAID FLAT AND SECURED TO SUBGRADE WITH STAPLES AT 5' CENTERS PRIOR TO BACK-FILL WITH MIN. 4" / MAX. 5" COVER.  
 C. USE CAUTION WHEN SECURING DRIFLINE WITH STAPLES. DRIF-LINE SHALL NOT BE OBSTRUCTED, KINKED, OR STRETCHED.

**H7** START CONNECTION END FEED (OBSTRUCTED) PVC TO POLY SUB-GRADE



- 1- FLUSHING VALVE PLUMBED TO PVC OR POLY EXHAUST MANIFOLD.
- 2- PVC OR POLY EXHAUST MANIFOLD.
- 3- PERIMETER LATERALS SPACING- MIN. 4" - MAX. 1/2 LATERAL SPACING.
- 4- INTERIOR LATERAL SPACING TO BE AS NOTED IN THE LEGEND AND PLANS.
- 5- BLANK TUBING MANIFOLD FOR AIR VAC RELIEF.
- 6- AIR/VACUUM RELIEF VALVE - INSTALL AT HIGHEST LOCAL ELEVATION.
- 7- AREA PERIMETER / EDGE OF PLANTER.
- 8- DRIP TUBING LATERAL LINE.
- 9- SECURE POLY LINES WITH LUTE NET STAPLES, OR EQUAL 5' O.C.
- 10- PVC OR POLY SUPPLY MANIFOLD.
- 11- REMOTE CONTROL VALVE WITH FILTER AND FRV.
- 12- START CONNECTION AS APPROPRIATE SEE OTHER DETAILS.

NOTE:  
 A. DRIP-LINES TO BE PLACED IN PARALLEL AND CONCENTRIC LINES EQUALLY AND UNIFORMLY SPACED FOR ENTIRE LENGTH OF RUN. SPACE LINES AS SHOWN AND/OR NOTED ON DRAWINGS AND SPECS.  
 B. SEE RAINBIRD 'SUBSURFACE DRIP IRRIGATION DESIGN, INSTALLATION AND MAINTENANCE GUIDE' FOR ADDITIONAL INFORMATION.  
 C. DRIP-LINES TO BE LAID FLAT AND SECURED TO TRENCH BOTTOM OR FINISH GRADE MINUS 5" WITH STAPLES AT 5' CENTERS PRIOR TO BACK-FILL.  
 D. USE CAUTION WHEN SECURING DRIF-LINE WITH STAPLES. DRIF-LINE SHALL NOT BE OBSTRUCTED OR KINKED.

**H8** DRIP SYSTEM LAYOUT FOR CURVILINEAR AREA

**R.V. IDENTIFICATION BY COLOR CODING.**  
 SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

<b>OTAY WATER DISTRICT</b> PROJECT NO. 00944-060189 RPZ 624, 711 RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: 5/14/17 SIGNATURE EXPIRES AFTER 1 YEAR		<b>IT'S THE LAW!</b> DIAL BEFORE YOU DIG!  CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	<b>"AS-BUILT"</b> SIGNED: _____ DATE: _____ PRINT NAME: _____ R.L.A. # _____ DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____	 <b>Tributary LA, Inc.</b> 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax	DATE: 10 APR '17 SCALE: NO SCALE JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G
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CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK	SCALE	Office	Designed By	Drawn By	Checked By	Approved:	CITY OF CHULA VISTA	Drawing No.
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BENCH MARK MARKED "30 CITY ENGR." IN 3/4" IRON PIPE LOCATION: 1.5 MILES EAST OF MIX OF MAIN ST. & HERITAGE ON BOX MOUNTAIN 100' EAST OF PROMINENT 10' HIGH BOULDER & 1700' SOUTHERLY OF WATER STORAGE FACILITY. UTM 1359 PRD R.03 (841) ELEV=629.319' (NAVD 83)	Horizontal	Field	Plans Prepared Under Supervision Of			<i>[Signature]</i> Date: 5-15-17	LANDSCAPE IRRIGATION WATER PRESSURE CALCULATIONS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02	16050 - 47
Inspector _____							Vertical	Traffic	THOMAS A. PICARD	R.L.A. No. 4001		Approved: Kelly Broughton Director of Development Services or designee.		Sheet 47 of 88
Date Completed _____							N/A							

Print Date: 10 APR '17  
OWD WO# D0944-060189  
Otay Ranch, Village 3 - Slope & Erosion Control

VILLAGE 3 EROSION CONTROL CONTROLLER "SC" STATION "4" @ 58 - FARTHEST STATION  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 215.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 201.35 PSI  
REGULATED PRESSURE 100.00 PSI

Q	SIZE	LEN.	J	LOSS
58	2"	30	2.40	0.24 PSI
58	2"			0.10 PSI
58	2"			0.15 PSI
58	2"			0.00 PSI
58	2"			0.72 PSI
58	2"			0.30 PSI
58	2"			1.70 PSI
58	3"	10	0.41	0.04 PSI
58	2-1/2"	697	1.00	6.97 PSI
VAR	VAR			0.40 PSI
VAR	VAR			1.80 PSI
VAR	VAR			3.00 PSI
VAR	VAR			19.75 PSI
VAR	VAR			1.98 PSI
VAR	VAR			21.73 PSI
VAR	VAR			45.00 PSI
VAR	VAR			35.00 FT.
VAR	VAR			-16.32 PSI
VAR	VAR			90.54 PSI
VAR	VAR			9.46 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SG" STATION "4" @ 28 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 335.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 149.39 PSI  
REGULATED PRESSURE 90.00 PSI

Q	SIZE	LEN.	J	LOSS
28	2"	35	0.69	0.24 PSI
28	2"			0.00 PSI
28	2"			0.25 PSI
28	2"			0.00 PSI
28	2-1/2"			0.07 PSI
28	2"			0.50 PSI
28	2"			1.50 PSI
28	3"	2800	0.11	3.08 PSI
28	2-1/2"		0.00	0.00 PSI
VAR	VAR			2.90 PSI
VAR	VAR			2.90 PSI
VAR	VAR			3.00 PSI
VAR	VAR			11.95 PSI
VAR	VAR			1.19 PSI
VAR	VAR			13.14 PSI
VAR	VAR			45.00 PSI
VAR	VAR			35.00 FT.
VAR	VAR			-15.16 PSI
VAR	VAR			73.29 PSI
VAR	VAR			16.71 PSI

VILLAGE 3 EROSION CONTROL - HIGHEST FLOW CONTROLLER "SA2" STATION "23" @ 56 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 158.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 226.03 PSI  
REGULATED PRESSURE 100.00 PSI

Q	SIZE	LEN.	J	LOSS
56	2"	30	2.20	0.66 PSI
56	1-1/2"			6.20 PSI
56	1-1/2"			0.50 PSI
56	1-1/2"			0.00 PSI
56	1-1/2"			1.10 PSI
56	1-1/2"			0.50 PSI
56	2"			3.53 PSI
56	3"			0.00 PSI
56	2-1/2"	463	0.98	4.54 PSI
56	3"			0.40 PSI
56	1-1/2"			2.90 PSI
VAR	VAR			3.00 PSI
VAR	VAR			23.33 PSI
VAR	VAR			2.33 PSI
VAR	VAR			25.66 PSI
VAR	VAR			45.00 PSI
VAR	VAR			12.00 FT.
VAR	VAR			-5.20 PSI
VAR	VAR			75.86 PSI
VAR	VAR			24.14 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "R-20" STATION "4" @ 28 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 265.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 179.70 PSI  
REGULATED PRESSURE 80.00 PSI

Q	SIZE	LEN.	J	LOSS
28	2"	28	0.71	0.20 PSI
28	1.5"			2.50 PSI
28	1.5"			1.00 PSI
28	1.5"			5.00 PSI
28	1.5"			1.30 PSI
28	1.5"			0.50 PSI
28	1.5"			3.10 PSI
28	2"	236	0.71	1.68 PSI
VAR	VAR			0.00 PSI
VAR	VAR			0.40 PSI
VAR	VAR			3.10 PSI
VAR	VAR			3.00 PSI
VAR	VAR			21.78 PSI
VAR	VAR			2.18 PSI
VAR	VAR			23.96 PSI
VAR	VAR			40.00 PSI
VAR	VAR			4.00 FT.
VAR	VAR			-1.73 PSI
VAR	VAR			65.69 PSI
VAR	VAR			14.31 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "R-6" STATION "2" @ 15 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 295.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 166.71 PSI  
REGULATED PRESSURE 80.00 PSI

Q	SIZE	LEN.	J	LOSS
15	2"	28	0.71	0.20 PSI
15	1.5"			2.50 PSI
15	1.5"			1.00 PSI
15	1.5"			5.00 PSI
15	1.5"			1.30 PSI
15	1.5"			0.50 PSI
15	1.5"			3.10 PSI
15	2"	250	0.71	1.78 PSI
VAR	VAR			0.00 PSI
VAR	VAR			0.40 PSI
VAR	VAR			3.10 PSI
VAR	VAR			3.00 PSI
VAR	VAR			21.88 PSI
VAR	VAR			2.19 PSI
VAR	VAR			24.07 PSI
VAR	VAR			40.00 PSI
VAR	VAR			4.00 FT.
VAR	VAR			-1.73 PSI
VAR	VAR			65.89 PSI
VAR	VAR			14.20 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SB2" STATION "12" @ 12  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 255.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 184.03 PSI  
REGULATED PRESSURE 100.00 PSI

Q	SIZE	LEN.	J	LOSS
12	2"	35	0.14	0.05 PSI
12	1-1/5"			0.00 PSI
12	1-1/5"			1.60 PSI
12	1-1/5"			13.00 PSI
12	1-1/5"			2.20 PSI
12	1-1/5"			5.00 PSI
12	1-1/5"			7.88 PSI
12	2"	250	0.14	0.35 PSI
12	2-1/2"	423	0.06	0.25 PSI
VAR	VAR			0.40 PSI
VAR	VAR			3.00 PSI
VAR	VAR			3.00 PSI
VAR	VAR			35.53 PSI
VAR	VAR			3.55 PSI
VAR	VAR			39.08 PSI
VAR	VAR			45.00 PSI
VAR	VAR			15.00 FT.
VAR	VAR			-8.50 PSI
VAR	VAR			90.58 PSI
VAR	VAR			24.14 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SI" STATION "1" @ 33 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 245.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 182.36 PSI  
REGULATED PRESSURE 140.00 PSI

Q	SIZE	LEN.	J	LOSS
33	2"	30	1.05	0.32 PSI
33	2"			0.10 PSI
33	2"			0.50 PSI
33	2"			0.00 PSI
33	2"			0.25 PSI
33	2"			0.50 PSI
33	2"			3.84 PSI
33	3"	1775	0.14	2.49 PSI
33	2-1/2"	757	0.38	2.82 PSI
VAR	VAR			0.40 PSI
VAR	VAR			1.80 PSI
VAR	VAR			3.00 PSI
VAR	VAR			17.92 PSI
VAR	VAR			1.79 PSI
VAR	VAR			19.71 PSI
VAR	VAR			45.00 PSI
VAR	VAR			92.00 FT.
VAR	VAR			-39.84 PSI
VAR	VAR			104.54 PSI
VAR	VAR			35.46 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SD" STATION "5" @ 24 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 325.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 153.72 PSI  
REGULATED PRESSURE 85.00 PSI

Q	SIZE	LEN.	J	LOSS
24	2"	35	0.52	0.18 PSI
24	1-1/2"			1.20 PSI
24	1-1/2"			1.80 PSI
24	1-1/2"			0.00 PSI
24	1-1/2"			0.48 PSI
24	1-1/2"			0.50 PSI
24	1-1/2"			7.00 PSI
24	2"	517	0.52	2.69 PSI
24	2-1/2"	1022	0.21	2.12 PSI
VAR	VAR			0.40 PSI
VAR	VAR			1.80 PSI
VAR	VAR			3.00 PSI
VAR	VAR			21.19 PSI
VAR	VAR			2.12 PSI
VAR	VAR			23.31 PSI
VAR	VAR			45.00 PSI
VAR	VAR			45.00 FT.
VAR	VAR			19.49 PSI
VAR	VAR			48.83 PSI
VAR	VAR			36.17 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SB" STATION "3" @ 28 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 173.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 219.53 PSI  
REGULATED PRESSURE 100.00 PSI

Q	SIZE	LEN.	J	LOSS
28	2"	35	0.69	0.24 PSI
28	1-1/2"			1.60 PSI
28	1-1/2"			0.00 PSI
28	1-1/2"			5.00 PSI
28	1-1/2"			1.03 PSI
28	1-1/2"			2.50 PSI
28	1-1/2"			2.50 PSI
28	2-1/2"	660	0.27	1.78 PSI
VAR	VAR			0.00 PSI
VAR	VAR			0.40 PSI
VAR	VAR			2.30 PSI
VAR	VAR			3.00 PSI
VAR	VAR			20.35 PSI
VAR	VAR			2.03 PSI
VAR	VAR			22.38 PSI
VAR	VAR			45.00 PSI
VAR	VAR			37.00 FT.
VAR	VAR			-16.02 PSI
VAR	VAR			83.41 PSI
VAR	VAR			16.59 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SA1" STATION "4" @ 31 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 335.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 129.39 PSI  
REGULATED PRESSURE 90.00 PSI

Q	SIZE	LEN.	J	LOSS
31	2"	30	0.81	0.24 PSI
31	1-1/2"			2.00 PSI
31	1-1/2"			0.50 PSI
31	1-1/2"			0.00 PSI
31	1-1/2"			0.41 PSI
31	1-1/2"			0.50 PSI
31	1-1/2"			0.50 PSI
31	3"	0	0.08	0.00 PSI
31	2-1/2"	1610	0.33	5.31 PSI
VAR	VAR			0.40 PSI
VAR	VAR			2.90 PSI
VAR	VAR			3.00 PSI
VAR	VAR			15.77 PSI
VAR	VAR			1.58 PSI
VAR	VAR			17.34 PSI
VAR	VAR			45.00 PSI
VAR	VAR			-57.00 FT.
VAR	VAR			24.68 PSI
VAR	VAR			37.66 PSI
VAR	VAR			52.34 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SB2" STATION "12" @ 12  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 255.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 184.03 PSI  
REGULATED PRESSURE 100.00 PSI

Q	SIZE	LEN.	J	LOSS
12	2"	35	0.14	0.05 PSI
12	1-1/5"			0.00 PSI
12	1-1/5"			1.60 PSI
12	1-1/5"			13.00 PSI
12	1-1/5"			2.20 PSI
12	1-1/5"			5.00 PSI
12	1-1/5"			7.88 PSI
12	2"	250	0.14	0.35 PSI
12	2-1/2"	423	0.06	0.25 PSI
VAR	VAR			0.40 PSI
VAR	VAR			3.00 PSI
VAR	VAR			3.00 PSI
VAR	VAR			35.53 PSI
VAR	VAR			3.55 PSI
VAR	VAR			39.08 PSI
VAR	VAR			45.00 PSI
VAR	VAR			15.00 FT.
VAR	VAR			-8.50 PSI
VAR	VAR			90.58 PSI
VAR	VAR			24.14 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SI" STATION "1" @ 33 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 245.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 182.36 PSI  
REGULATED PRESSURE 140.00 PSI

Q	SIZE	LEN.	J	LOSS
33	2"	30	1.05	0.32 PSI
33	2"			0.10 PSI
33	2"			0.50 PSI
33	2"			0.00 PSI
33	2"			0.25 PSI
33	2"			0.50 PSI
33	2"			3.84 PSI
33	3"	1775	0.14	2.49 PSI
33	2-1/2"	757	0.38	2.82 PSI
VAR	VAR			0.40 PSI
VAR	VAR			1.80 PSI
VAR	VAR			3.00 PSI
VAR	VAR			17.92 PSI
VAR	VAR			1.79 PSI
VAR	VAR			19.71 PSI
VAR	VAR			45.00 PSI
VAR	VAR			92.00 FT.
VAR	VAR			-39.84 PSI
VAR	VAR			104.54 PSI
VAR	VAR			35.46 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SD" STATION "5" @ 24 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 325.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 153.72 PSI  
REGULATED PRESSURE 85.00 PSI

Q	SIZE	LEN.	J	LOSS
24	2"	35	0.52	0.18 PSI
24	1-1/2"			1.20 PSI
24	1-1/2"			1.80 PSI
24	1-1/2"			0.00 PSI
24	1-1/2"			0.48 PSI
24	1-1/2"			0.50 PSI
24	1-1/2"			7.00 PSI
24	2"	517	0.52	2.69 PSI
24	2-1/2"	1022	0.21	2.12 PSI
VAR	VAR			0.40 PSI
VAR	VAR			1.80 PSI
VAR	VAR			3.00 PSI
VAR	VAR			21.19 PSI
VAR	VAR			2.12 PSI
VAR	VAR			23.31 PSI
VAR	VAR			45.00 PSI
VAR	VAR			45.00 FT.
VAR	VAR			19.49 PSI
VAR	VAR			48.83 PSI
VAR	VAR			36.17 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SB" STATION "3" @ 28 GPM  
HYDRAULIC GRADIENT 680.00 FT.  
ELEVATION AT P.O.C. 173.00 FT.  
PRESSURE AVAILABLE AT P.O.C. 219.53 PSI  
REGULATED PRESSURE 100.00 PSI

Q	SIZE	LEN.	J	LOSS
28	2"	35	0.69	0.24 PSI
28	1-1/2"			1.60 PSI
28	1-1/2"			0.00 PSI
28	1-1/2"			5.00 PSI
28	1-1/2"			1.03 PSI
28	1-1/2"			

VILLAGE 3 EROSION CONTROL CONTROLLER "SC" STATION "17" @ 65 - HIGHEST FLOW					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	215.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	201.35 PSI				
REGULATED PRESSURE	80.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	65	2"	30	2.97	0.89 PSI
WYE STRAINER	65	2"			3.20 PSI
PRESSURE REGULATOR	65	2"			0.10 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	65	2"			1.50 PSI
FLOW SENSOR	65	2"			0.85 PSI
MCV	65	2"			0.30 PSI
MAINLINE TRUNK	65	3"	10	0.50	1.70 PSI
MAINLINE TRUNK	65	2-1/2"	665	1.31	0.05 PSI
ISOLATION VALVES (4 VALVES)	VAR	VAR			8.71 PSI
RCV SINGLE STATION	65	2"			0.40 PSI
LATERALS	VAR	VAR			1.80 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	22.51 PSI				
TOTAL LOSSES	2.25 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	-50.00 FT.				
PRESSURE DIFFERENTIAL	23.82 PSI				
REQUIRED	45.94 PSI				
SURPLUS PRESSURE	74%				
	34.06 PSI				

VILLAGE 3 EROSION CONTROL - HIGHEST FLOW CONTROLLER "SA1" STATION "X" @ XX GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	158.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	226.03 PSI				
REGULATED PRESSURE	160.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	56	2"	30	2.20	0.68 PSI
WYE STRAINER	56	1-1/2"			2.30 PSI
PRESSURE REGULATOR	56	1-1/2"			0.50 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	56	1-1/2"			0.00 PSI
FLOW SENSOR	56	1-1/2"			0.52 PSI
MCV	56	1-1/2"			0.50 PSI
MAINLINE TRUNK	56	3"	463	0.37	3.53 PSI
MAINLINE TRUNK	56	2-1/2"	0	0.00	1.71 PSI
ISOLATION VALVES (4 VALVES)	VAR	3"			0.00 PSI
RCV SINGLE STATION	56	1-1/2"			0.40 PSI
LATERALS	VAR	VAR			2.90 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	16.02 PSI				
TOTAL LOSSES	1.80 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	12.00 FT.				
PRESSURE DIFFERENTIAL	-5.20 PSI				
REQUIRED	67.82 PSI				
SURPLUS PRESSURE	136%				
	92.18 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SI" STATION "15" @ 60 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	158.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	226.03 PSI				
REGULATED PRESSURE	95.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	60	2"	30	2.85	0.86 PSI
WYE STRAINER	60	2"			2.70 PSI
PRESSURE REGULATOR	60	2"			0.50 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	60	3"			0.61 PSI
FLOW SENSOR	60	2"			0.50 PSI
MCV	60	2"			3.84 PSI
MAINLINE TRUNK	60	3"	1140	0.43	4.90 PSI
MAINLINE TRUNK	60	2-1/2"			0.00 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.40 PSI
RCV SINGLE STATION	60	2"			2.30 PSI
LATERALS	VAR	VAR			3.00 PSI
SUBTOTAL	20.21 PSI				
+10% FOR FITTINGS	2.02 PSI				
TOTAL LOSSES	22.23 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	37.00 FT.				
PRESSURE DIFFERENTIAL	-16.00 PSI				
REQUIRED	83.25 PSI				
SURPLUS PRESSURE	14%				
	11.75 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SH" STATION "6" @ 56 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	335.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	149.39 PSI				
REGULATED PRESSURE	60.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	56	2"	10	2.45	0.75 PSI
WYE STRAINER	56	2"			2.30 PSI
PRESSURE REGULATOR	56	2"			0.01 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	56	2"			0.00 PSI
FLOW SENSOR	56	2"			0.38 PSI
MCV	56	2"			0.50 PSI
MAINLINE TRUNK	56	3"	690	0.39	1.50 PSI
MAINLINE TRUNK	56	2-1/2"			2.69 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.00 PSI
RCV SINGLE STATION	56	1-1/2"			0.40 PSI
LATERALS	VAR	VAR			2.90 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	13.93 PSI				
TOTAL LOSSES	1.39 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	-35.00 FT.				
PRESSURE DIFFERENTIAL	15.16 PSI				
REQUIRED	45.17 PSI				
SURPLUS PRESSURE	33%				
	14.83 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SG" STATION "22" @ 59 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	335.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	149.39 PSI				
REGULATED PRESSURE	90.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	59	2"	35	2.84	0.99 PSI
WYE STRAINER	59	2"			2.70 PSI
PRESSURE REGULATOR	59	2"			0.25 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	59	2-1/2"			0.00 PSI
FLOW SENSOR	59	2"			0.59 PSI
MCV	59	2"			0.50 PSI
MAINLINE TRUNK	59	3"	120	0.43	1.50 PSI
MAINLINE TRUNK	59	2-1/2"			0.52 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.00 PSI
RCV SINGLE STATION	59	1-1/2"			0.21
LATERALS	VAR	VAR			2.90 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	13.35 PSI				
TOTAL LOSSES	1.34 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	1.00 FT.				
PRESSURE DIFFERENTIAL	-0.43 PSI				
REQUIRED	60.12 PSI				
SURPLUS PRESSURE	50%				
	28.88 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SE" STATION "8" @ 64 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	380.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	129.90 PSI				
REGULATED PRESSURE	90.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	64	2"	80	3.10	2.48 PSI
WYE STRAINER	64	1-1/2"			8.10 PSI
PRESSURE REGULATOR	64	1-1/2"			0.25 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	64	1-1/2"			0.00 PSI
FLOW SENSOR	64	1-1/2"			1.62 PSI
MCV	64	1-1/2"			0.50 PSI
MAINLINE TRUNK	64	2-1/2"	450	1.31	4.00 PSI
MAINLINE TRUNK	64	3"			5.90 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.00 PSI
RCV SINGLE STATION	64	2"			0.40 PSI
LATERALS	VAR	VAR			1.80 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	28.05 PSI				
TOTAL LOSSES	-0.87 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	2.00 FT.				
PRESSURE DIFFERENTIAL	-5.20 PSI				
REQUIRED	76.72 PSI				
SURPLUS PRESSURE	17%				
	13.28 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SD" STATION "28" @ 56 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	325.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	153.72 PSI				
REGULATED PRESSURE	85.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	56	2"	35	2.44	0.86 PSI
WYE STRAINER	56	1-1/2"			2.70 PSI
PRESSURE REGULATOR	56	1-1/2"			1.80 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	56	1-1/2"			0.00 PSI
FLOW SENSOR	56	1-1/2"			0.33 PSI
MCV	56	1-1/2"			0.50 PSI
MAINLINE TRUNK	56	1-1/2"			7.00 PSI
MAINLINE TRUNK	56	2"			0.00 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			1.58 PSI
RCV SINGLE STATION	56	2"			0.40 PSI
LATERALS	VAR	VAR			2.80 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	24.47 PSI				
TOTAL LOSSES	2.45 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	17.00 FT.				
PRESSURE DIFFERENTIAL	-4.33 PSI				
REQUIRED	76.24 PSI				
SURPLUS PRESSURE	11%				
	8.76 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SB" STATION "16" @ 32 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	173.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	219.53 PSI				
REGULATED PRESSURE	100.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	32	2"	35	0.84	0.29 PSI
WYE STRAINER	32	1-1/2"			2.10 PSI
PRESSURE REGULATOR	32	1-1/2"			0.00 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	32	1-1/2"			1.11 PSI
FLOW SENSOR	32	1-1/2"			2.50 PSI
MCV	32	1-1/2"			2.50 PSI
MAINLINE TRUNK	32	2-1/2"	658	0.42	3.60 PSI
MAINLINE TRUNK	32	3"			0.00 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.40 PSI
RCV SINGLE STATION	32	1-1/2"			2.30 PSI
LATERALS	VAR	VAR			3.00 PSI
SUBTOTAL	22.81 PSI				
+10% FOR FITTINGS	2.28 PSI				
TOTAL LOSSES	25.09 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	27.00 FT.				
PRESSURE DIFFERENTIAL	-11.69 PSI				
REQUIRED	81.78 PSI				
SURPLUS PRESSURE	22%				
	18.22 PSI				

VILLAGE 3 EROSION CONTROL - HIGHEST FLOW CONTROLLER "SA2" STATION "23" @ 56 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	158.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	226.03 PSI				
REGULATED PRESSURE	100.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	56	2"	30	2.20	0.66 PSI
WYE STRAINER	56	1-1/2"			6.20 PSI
PRESSURE REGULATOR	56	1-1/2"			0.50 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	56	1-1/2"			0.00 PSI
FLOW SENSOR	56	1-1/2"			1.10 PSI
MCV	56	1-1/2"			0.50 PSI
MAINLINE TRUNK	56	2"			3.53 PSI
MAINLINE TRUNK	56	3"			0.00 PSI
ISOLATION VALVES (4 VALVES)	VAR	3"			4.54 PSI
RCV SINGLE STATION	56	1-1/2"			0.40 PSI
LATERALS	VAR	VAR			2.90 PSI
SUBTOTAL	3.00 PSI				
+10% FOR FITTINGS	23.33 PSI				
TOTAL LOSSES	25.66 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	12.00 FT.				
PRESSURE DIFFERENTIAL	-5.20 PSI				
REQUIRED	75.86 PSI				
SURPLUS PRESSURE	32%				
	24.14 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "SB2" STATION "12" @ 12					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	255.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	184.03 PSI				
REGULATED PRESSURE	100.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	12	2"	35	0.14	0.05 PSI
WYE STRAINER	12	1-1/5"			0.00 PSI
PRESSURE REGULATOR	12	1-1/5"			1.60 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	12	1-1/5"			13.00 PSI
FLOW SENSOR	12	1-1/5"			2.20 PSI
MCV	12	1-1/5"			5.00 PSI
MAINLINE TRUNK	12	2"	250	0.14	7.88 PSI
MAINLINE TRUNK	12	2"	423	0.06	0.35 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.25 PSI
RCV SINGLE STATION	12	1"			1.80 PSI
LATERALS	VAR	VAR			3.00 PSI
SUBTOTAL	35.53 PSI				
+10% FOR FITTINGS	3.55 PSI				
TOTAL LOSSES	39.08 PSI				
OPERATION	45.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	15.00 FT.				
PRESSURE DIFFERENTIAL	-6.50 PSI				
REQUIRED	90.58 PSI				
SURPLUS PRESSURE	10%				
	9.42 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "I-3C" STATION "1" @ 21 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	375.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	132.07 PSI				
REGULATED PRESSURE	80.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	21	2"	28	0.71	0.20 PSI
WYE STRAINER	21	1.5"			2.50 PSI
PRESSURE REGULATOR	21	1.5"			1.00 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	21	1.5"			5.00 PSI
FLOW SENSOR	21	1.5"			1.30 PSI
MCV	21	1.5"			0.50 PSI
MAINLINE TRUNK	21	1.5"			3.10 PSI
MAINLINE TRUNK	21	2"	200	0.71	1.42 PSI
ISOLATION VALVES (4 VALVES)	VAR	VAR			0.00 PSI
RCV SINGLE STATION	21	1.5"			0.40 PSI
LATERALS	VAR	VAR			3.00 PSI
SUBTOTAL	21.52 PSI				
+10% FOR FITTINGS	2.15 PSI				
TOTAL LOSSES	23.68 PSI				
OPERATION	40.00 PSI				
CHANGE IN ELEVATION POC TO SYSTEM	4.00 FT.				
PRESSURE DIFFERENTIAL	-1.73 PSI				
REQUIRED	65.41 PSI				
SURPLUS PRESSURE	22%				
	14.59 PSI				

VILLAGE 3 EROSION CONTROL CONTROLLER "I-3C" STATION "1" @ 21 GPM					
HYDRAULIC GRADIENT	680.00 FT.				
ELEVATION AT P.O.C.	375.00 FT.				
PRESSURE AVAILABLE AT P.O.C.	132.07 PSI				
REGULATED PRESSURE	80.00 PSI				
<b>LOSS</b>					
SERVICE LINE	Q	SIZE	LEN.	J	LOSS
METER	32	2"	35	0.84	0.29 PSI
WYE STRAINER	32	1-1/2"			2.10 PSI
PRESSURE REGULATOR	32	1-1/2"			0.00 PSI
P.O.C. PLUMBING (15% OF DEVICE LOSS)	32	1-1/2"			1.11 PSI
FLOW SENSOR	32	1-1/2"			2.50 PSI
MCV	32	1-1/2"			2.50 PSI
MAINLINE TRUNK	32	2-1/2"	658	0.42	3.60 PSI
MAINLINE TRUNK	32	3"			0.00 PSI
ISOLATION VALVES (4 VALVES)	VAR	2"			0.40 PSI

VILLAGE 3 EROSION CONTROL CONTROLLER "SA" STATION "4" @ 58 - FARTHEST STATION. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 215.00 FT. PRESSURE AVAILABLE AT P.O.C. 201.35 PSI. REGULATED PRESSURE 100.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "SG" STATION "4" @ 28 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 335.00 FT. PRESSURE AVAILABLE AT P.O.C. 149.39 PSI. REGULATED PRESSURE 90.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "SB2" STATION "3" @ 39. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 255.00 FT. PRESSURE AVAILABLE AT P.O.C. 184.03 PSI. REGULATED PRESSURE 80.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "1-3a" STATION "2" @ 19 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 345.00 FT. PRESSURE AVAILABLE AT P.O.C. 145.06 PSI. REGULATED PRESSURE 65.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "MU2" STATION "3" @ 35 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 370.00 FT. PRESSURE AVAILABLE AT P.O.C. 134.23 PSI. REGULATED PRESSURE 80.00 PSI.

VILLAGE 3 EROSION CONTROL - FARTHEST STATION HIGHEST ELE CONTROLLER "SA2" STATION "1" @ 22 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 158.00 FT. PRESSURE AVAILABLE AT P.O.C. 226.03 PSI. REGULATED PRESSURE 110.00 PSI.

VILLAGE 3 EROSION CONTROL - FARTHEST STATION HIGHEST ELE CONTROLLER "SA1" STATION "4" @ 31 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 335.00 FT. PRESSURE AVAILABLE AT P.O.C. 149.39 PSI. REGULATED PRESSURE 90.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "SE" STATION "18" @ 39 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 380.00 FT. PRESSURE AVAILABLE AT P.O.C. 129.90 PSI. REGULATED PRESSURE 90.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "1-1a" STATION "1" @ 31 GPM. NOT A PART - REFER TO LANDSCAPE & IRRIGATION PLANS BY RIDGE LANDSCAPE ARCHITECTURE.

VILLAGE 3 EROSION CONTROL CONTROLLER "R-16" STATION "10" @ 41 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 338.00 FT. PRESSURE AVAILABLE AT P.O.C. 148.09 PSI. REGULATED PRESSURE 70.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "O-1" STATION "1" @ 33 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 375.00 FT. PRESSURE AVAILABLE AT P.O.C. 132.07 PSI. REGULATED PRESSURE 86.00 PSI.

VILLAGE 3 SOUTH EROSION CONTROL TYPICAL PRIVATE SLOPE @ 7 GPM. HYDRAULIC GRADIENT 711.00 FT. ELEVATION AT P.O.C. 415.00 FT. PRESSURE AVAILABLE AT P.O.C. 128.17 PSI. REGULATED PRESSURE 50.00 PSI.

VILLAGE 3 EROSION CONTROL - FARTHEST STATION HIGHEST ELE CONTROLLER "SI" STATION "1" @ 33 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 158.00 FT. PRESSURE AVAILABLE AT P.O.C. 226.03 PSI. REGULATED PRESSURE 140.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "SD" STATION "5" @ 24 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 325.00 FT. PRESSURE AVAILABLE AT P.O.C. 153.72 PSI. REGULATED PRESSURE 85.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "BB" STATION "13" @ 53 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 155.00 FT. PRESSURE AVAILABLE AT P.O.C. 227.33 PSI. REGULATED PRESSURE 85.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "R-14" STATION "2" @ 48 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 370.00 FT. PRESSURE AVAILABLE AT P.O.C. 134.23 PSI. REGULATED PRESSURE 70.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "S-1a" STATION "4" @ 20 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 350.00 FT. PRESSURE AVAILABLE AT P.O.C. 142.89 PSI. REGULATED PRESSURE 80.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "S-1b" STATION "6" @ 46 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 350.00 FT. PRESSURE AVAILABLE AT P.O.C. 142.89 PSI. REGULATED PRESSURE 86.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "SH" STATION "25" @ 32 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 335.00 FT. PRESSURE AVAILABLE AT P.O.C. 149.39 PSI. REGULATED PRESSURE 60.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "SB" STATION "3" @ 28 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 173.00 FT. PRESSURE AVAILABLE AT P.O.C. 219.53 PSI. REGULATED PRESSURE 100.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "1-2" STATION "3" @ 40 GPM. NOT A PART - REFER TO LANDSCAPE & IRRIGATION PLANS BY RIDGE LANDSCAPE ARCHITECTURE.

VILLAGE 3 EROSION CONTROL CONTROLLER "MU-1" STATION "2" @ 18 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 358.00 FT. PRESSURE AVAILABLE AT P.O.C. 139.43 PSI. REGULATED PRESSURE 70.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "S-1b" STATION "6" @ 46 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 350.00 FT. PRESSURE AVAILABLE AT P.O.C. 142.89 PSI. REGULATED PRESSURE 86.00 PSI.

VILLAGE 3 EROSION CONTROL CONTROLLER "S-1b" STATION "6" @ 46 GPM. HYDRAULIC GRADIENT 680.00 FT. ELEVATION AT P.O.C. 350.00 FT. PRESSURE AVAILABLE AT P.O.C. 142.89 PSI. REGULATED PRESSURE 86.00 PSI.

THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.

NOT A PART - REFER TO LANDSCAPE & IRRIGATION PLANS BY RIDGE LANDSCAPE ARCHITECTURE.

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SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC.

CONSTRUCTION RECORD table with columns for Contractor, Inspector, Date Completed, and Revision details.

REFERENCES table listing HUNSAKER & ASSOC. as the design firm.

REVISIONS table with columns for Date, App'd, and Description of changes.

BENCH MARK table listing the location and elevation of the benchmark.

SCALE table listing Horizontal, Vertical, and Traffic scales.

Office and Design/Draw/Check/Approved table with names and dates.

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP. Includes data for CONTROLLER "O-1".

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP. Includes data for CONTROLLER "S-1a".

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP. Includes data for CONTROLLER "S-1b".

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 4 DAYS PER WEEK S.W. EXP, 4 DAYS PER WEEK N.E. EXP. Includes data for CONTROLLER "SB2".

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP. Includes data for OTAY RANCH VILLAGE 3 EROSION CONTROL CONTROLLER "1-C".

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP. Includes data for OTAY RANCH VILLAGE 3 EROSION CONTROL CONTROLLER "R-6".

Table with columns: STATIONS W/S.W. EXPOSURE, STA. CNT., DESCRIPTION, ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP. Includes data for OTAY RANCH VILLAGE 3 EROSION CONTROL CONTROLLER "R-20".

Table: ESTIMATED WATER REQUIREMENTS USING NORMAL YEAR CIMIS DATA. OTAY RANCH VILLAGE 3 EROSION CONTROL. CHULA VISTA, CA. WEATHER DATA AND REFERENCE REQUIRED IRRIGATION.

Table: BASE IRRIGATION REQUIREMENT IN INCHES PER MONTH FOR EACH ZONE. Columns: ZONE, TURF SUN, SHADE, AT PAVING, SHRUB/GC SUN, SHADE, AT PAVING.

Table: SCHEDULING GUIDELINES. ZONE WATER TIMES IN MINUTES PER DAY. Columns: HYDROZONE, Pr, IEs, Days/Week, Station Trim, JAN-DEC.

BASIS FOR SCHEDULING

Table: CONTROLLER "SE". ZONE WATER TIMES IN MINUTES PER DAY, 5 DAYS PER WEEK S.W. EXP, 5 DAYS PER WEEK N.E. EXP.

Table: CONTROLLER "SD". ZONE WATER TIMES IN MINUTES PER DAY, 5 DAYS PER WEEK S.W. EXP, 5 DAYS PER WEEK N.E. EXP.

Table: CONTROLLER "SB". ZONE WATER TIMES IN MINUTES PER DAY, 3 DAYS PER WEEK S.W. EXP, 3 DAYS PER WEEK N.E. EXP.

IRRIGATION SCHEDULING GUIDELINES

R.M. IDENTIFICATION BY COLOR CODING. SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE.

THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2244. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.

OTAY WATER DISTRICT Project No. D0944-060189 LRWS No. 2019-00134 P.Z. 624, 711 R.P.Z. 680

"AS-BUILT" SIGNED: DATE: PRINT NAME: R.L.A. # DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP.

IT'S THE LAW! DIAL BEFORE YOU DIG! CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA.



Tributary LA, Inc. Landscape Architecture and Planning. 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008

DATE: 23 MAY '22 SCALE: NO SCALE JOB NO. 15024 DRAWN BY: T.P. / T.G.M. W.O. NO. OR-3001G

Table: CONSTRUCTION RECORD, REFERENCES, BY, REVISIONS, BENCH MARK, SCALE, Office, Field, Traffic, Plans Prepared Under Supervision Of, Approved: Tiffany Allen, Director of Development Services or designee.

CITY OF CHULA VISTA LANDSCAPE IRRIGATION SPECIFICATIONS FOR: OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL CHULA VISTA TENTATIVE TRACT MAP NO. 13-02



Table for CONTROLLER "SC" showing ZONE WATER TIMES IN MINUTES PER DAY and 4 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "SA1" showing ZONE WATER TIMES IN MINUTES PER DAY and 5 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for OTAY RANCH VILLAGE 3 EROSION CONTROL CONTROLLER "SA1" showing ZONE WATER TIMES IN MINUTES PER DAY and 5 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "SI" showing ZONE WATER TIMES IN MINUTES PER DAY and 4 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "BB" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "SH" showing ZONE WATER TIMES IN MINUTES PER DAY and 4 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "SG" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

NOT A PART - REFER TO LANDSCAPE & IRRIGATION PLANS BY RIDGE LANDSCAPE ARCHITECTURE. OWD# D1019-060288 DEH# DEH2021-LRWS-001351 CV WO# GR210042

Table for CONTROLLER "1-2a" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

NOT A PART - REFER TO LANDSCAPE & IRRIGATION PLANS BY RIDGE LANDSCAPE ARCHITECTURE. OWD# D1019-060288 DEH# DEH2021-LRWS-001351 CV WO# GR210042

Table for CONTROLLER "R-14" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "R-16" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "MU-1" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

Table for CONTROLLER "MU-2" showing ZONE WATER TIMES IN MINUTES PER DAY and 3 DAYS PER WEEK S.W. EXP. Includes columns for months and station descriptions.

IRRIGATION SCHEDULING GUIDELINES

\* THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.

R.I.M. IDENTIFICATION BY COLOR CODING. SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE.

OTAY WATER DISTRICT Project No. D0944-060189 LRWS No. 2019-00134 P.Z. 624, 711 R.P.Z. 680

"AS-BUILT" SIGNED: DATE: PRINT NAME: R.L.A. # DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP.

IT'S THE LAW! DIAL BEFORE YOU DIG! CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



Tributary LA, Inc. Landscape Architecture and Planning 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax

DATE: 7 APR '22 SCALE: NO SCALE JOB NO. 15024 DRAWN BY: T.P./T.G.M. W.O. NO. OR-3001G

CONSTRUCTION RECORD table with columns for CONSTRUCTION RECORD, REFERENCES, BY, REVISIONS, Date, App'd, BENCH MARK, SCALE, Office, Field, Traffic, Office, Plans Originally Approved, CITY OF CHULA VISTA, OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL, CHULA VISTA TENTATIVE TRACT MAP NO. 13-02, Drawing No. 16050-51, Sheet 51 of 68.

**WATER AGENCIES' STANDARDS**  
**STANDARD SPECIFICATIONS**  
**SECTION 15152 RECYCLED WATER FACILITIES (ONSITE)**  
**PART 1 GENERAL**

**1.01 DESCRIPTION**  
THIS SECTION INCLUDES SPECIAL PROVISIONS, MATERIALS, AND IDENTIFICATION OF ONSITE (POST METER, PRIVATE) RECYCLED WATER IRRIGATION OR PLUMBING SYSTEMS. THE PURPOSE OF THIS SECTION IS TO PROVIDE RULES AND REGULATIONS AND ESTABLISH PROCEDURES AND SPECIFICATIONS FOR THE DEVELOPMENT AND OPERATION OF RECYCLED WATER SYSTEMS IN THE DISTRICT'S SERVICE AREA.

**1.02 REFERENCE STANDARDS**  
THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED AND ARE REFERRED TO IN THE TEXT BY THE BASIC DESIGNATION ONLY. REFERENCE SHALL BE MADE TO THE LATEST EDITION OF SAID STANDARDS UNLESS OTHERWISE CALLED FOR.  
AWWA - AMERICAN WATER WORKS ASSOCIATION GUIDELINES FOR DISTRIBUTION OF NON-POTABLE WATER  
CCR - CALIFORNIA CODE OF REGULATIONS TITLE 22 AND TITLE 17.  
DOHS - DEPARTMENT OF HEALTH SERVICES  
RECYCLED WATER PLAN CHECK AND INSPECTION MANUAL, COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

**1.03 RELATED WORK SPECIFIED ELSEWHERE**  
WAS STANDARD DRAWINGS  
WAS STANDARD SPECIFICATION 01000

**1.04 OFFSITE AND ONSITE CRITERIA**  
RECYCLED WATER FACILITIES ARE SEPARATED INTO TWO CATEGORIES:  
A. "OFFSITE" (PRE-METER, PUBLIC) RECYCLED WATER FACILITIES CONSIST OF THOSE FACILITIES WHICH ARE ON THE UPSTREAM SIDE OF THE METER. THESE FACILITIES ARE, OR WILL BE, OWNED, OPERATED AND MAINTAINED BY THE DISTRICT. SPECIFICATION SECTION 15151 DETAILS THE REQUIREMENTS FOR CONSTRUCTION OF OFFSITE RECYCLED WATER FACILITIES.  
B. "ONSITE" (POST-METER, PRIVATE) RECYCLED WATER FACILITIES CONSIST OF THOSE FACILITIES WHICH ARE ON THE DOWNSTREAM SIDE OF THE WATER METER. THESE ARE FACILITIES WHICH WILL BE OWNED, OPERATED AND MAINTAINED BY THE CUSTOMER. THIS SPECIFICATION WILL DETAIL THE REQUIREMENTS FOR THE DESIGN, INSTALLATION AND TESTING OF ONSITE RECYCLED IRRIGATION AND PLUMBING SYSTEMS ONLY.

**1.05 POLICY**  
THE DISTRICT OPERATES AND MAINTAINS A RECYCLED WATER DISTRIBUTION SYSTEM WITHIN ITS SERVICE AREA ENABLING IT TO PROVIDE DISINFECTED TERTIARY TREATED RECYCLED WATER FOR A VARIETY OF BENEFICIAL USES. RECYCLED WATER USAGE AS AN ALTERNATE WILL CONSERVE AN EQUAL AMOUNT OF POTABLE WATER FOR DOMESTIC USE. THE BENEFICIAL USE OF RECYCLED WATER IS REGULATED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD (CWRCB), CALIFORNIA WATER CODE SECTION 15551 ESTABLISHES A STATE POLICY TO ENCOURAGE THE USE OF RECYCLED WATER. PERMISSION TO USE RECYCLED WATER IS BASED ON THE ABILITY TO ADEQUATELY TREAT WASTEWATER TO THE POINT THAT THE RECYCLED WATER (EFFLUENT) MEETS OR EXCEEDS THE REQUIREMENTS OF EXISTING TITLE 22, CHAPTER 3, REGULATIONS OF THE CALIFORNIA CODE OF REGULATIONS. TITLE 22 WAS PROMULGATED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES (DOHS) TO ENSURE PROPER HEALTH PROTECTION AND SPECIFY THE TREATMENT DEGREE TO MATCH THE INTENDED APPLICATIONS. IN ACCORDANCE WITH WASTE DISCHARGE REQUIREMENTS FOR WATER RECLAMATION PROJECTS, THE REGIONAL WATER QUALITY CONTROL BOARD, SAN DIEGO REGION (RWQCB) REQUIRES THAT RULES AND REGULATIONS FOR FACILITIES USING RECYCLED WATER BE ESTABLISHED.

**1.06 APPROVED USE**  
THESE RULES AND REGULATIONS PERTAIN TO RECYCLED WATER SERVICE TO LANDS AND/OR IMPROVEMENTS LYING WITHIN THE LEGAL BOUNDARIES OF THE DISTRICT UNLESS OTHERWISE STATED. IT IS THE INTENT OF THE DISTRICT TO PROVIDE RECYCLED WATER SERVICE IN ACCORDANCE WITH THESE RULES AND REGULATIONS TO ALL AREAS IDENTIFIED IN THE DISTRICT'S WATER RECLAMATION MASTER PLAN, INCLUDING ALL SUBSEQUENT REVISIONS FOR THE USE OF RECYCLED WATER. RECYCLED WATER SERVICE SHALL BE PROVIDED TO THE SERVICE AREA WHEN RELATED TRANSMISSION DISTRIBUTION FACILITIES ARE COMPLETED AND SERVICE BECOMES AVAILABLE. IN ACCORDANCE WITH THE GOALS OF THE DISTRICT, THE USES OF RECYCLED WATER INCLUDE ONLY THOSE USES APPROVED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES (DOHS), THE COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH) AND FOR WHICH TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS PROVIDES TREATMENT REQUIREMENTS. ALL POTENTIAL APPLICATIONS OF RECYCLED WATER SHALL BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO INSTALLATION OF FACILITIES. PRIOR TO APPROVAL AND AT ITS DISCRETION, THE DISTRICT MAY SET FORTH SPECIFIC REQUIREMENTS AS CONDITIONS FOR PROVIDING SERVICE AND/OR REQUIRE SPECIFIC PRIOR APPROVAL FROM THE APPROPRIATE REGULATORY AGENCIES. THE FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OF THE DISTRICT. NO RECYCLED WATER MAINS OR CONNECTIONS TO THE RECYCLED WATER MAINS SHALL BE INSTALLED UNLESS SHOWN ON THE APPROVED PLANS.

**1.07 CONDITIONS OF SERVICE**  
RECYCLED WATER SERVICE SHALL BE PROVIDED BY THE DISTRICT ONLY IF SUCH SERVICE IS OBTAINED IN THE MANNER PROVIDED IN THESE RULES AND REGULATIONS. RECYCLED WATER SERVICE SHALL BE AVAILABLE, PROVIDED, AND USED IN ACCORDANCE WITH OTHER CODES, RULES, AND REGULATIONS REFERRED TO IN THIS SPECIFICATION. IF ANY OF THE FOLLOWING CONDITIONS OF SERVICE ARE NOT SATISFIED AT ALL TIMES RECYCLED WATER SERVICE MAY BE REVOKED BY THE DISTRICT.  
A. FINANCIAL - CONDITIONS RELATING TO SERVICE RATES, FEES AND BILLING SHALL BE ESTABLISHED BY THE BOARD OF DIRECTORS.  
B. OPERATIONAL: 1. LIABILITY: THE DISTRICT SHALL NOT BE LIABLE FOR ANY WATER-RELATED DAMAGE RESULTING FROM, BUT NOT LIMITED TO:  
A. DEFECTIVE PLUMBING  
B. BROKEN OR FAULTY SERVICES  
C. ONSITE FACILITIES FAILURES  
D. HIGH OR LOW PRESSURE CONDITIONS  
E. INTERRUPTIONS OF SERVICE  
F. UNAUTHORIZED CONNECTIONS  
2. SERVICE: ALL RECYCLED WATER WILL BE PROVIDED TO THE USER AS SPECIFIED IN THE APPLICATION/PERMIT FOR RECYCLED WATER SERVICE. RECYCLED WATER USE WILL BE SUBJECT TO THE SAME RESTRICTIONS AS STATED IN THESE SPECIFICATIONS AND THE REGULATORY REQUIREMENTS OF DOHS AND DEH.  
C. REGULATORY: RECYCLED WATER SERVICE MAY BE SUSPENDED WHENEVER THE QUALITY OF THE RECYCLED WATER DOES NOT COMPLY WITH THE REQUIREMENTS OF THE REGULATORY AGENCIES OR AT ANY TIME THESE RULES AND REGULATIONS FOR RECYCLED WATER SERVICE ARE VIOLATED.

**1.08 DESIGN CRITERIA - ONSITE RECYCLED SYSTEMS**  
A. THE DESIGN OF ONSITE RECYCLED WATER FACILITIES, INCLUDING THE PREPARATION OF PLANS AND SPECIFICATIONS, SHALL BE UNDER THE RESPONSIBILITY OF A LICENSED LANDSCAPE ARCHITECT OR CIVIL ENGINEER REGISTERED WITH THE STATE OF CALIFORNIA. A DECLARATION OF RESPONSIBLE CHARGE SHALL APPEAR ON THE TITLE SHEET OF THE PLANS.  
B. THE DESIGN OF ONSITE RECYCLED FACILITIES SHALL CONFORM TO THE MOST CURRENT PROVISIONS SET FORTH HEREIN AND TO ANY OTHER CONDITIONS, STANDARDS, AND REQUIREMENTS SET FORTH BY THE DISTRICT.  
C. IN THOSE AREAS WHERE RECYCLED WATER IS NOT IMMEDIATELY AVAILABLE AND THE DISTRICT HAS DETERMINED THAT RECYCLED WATER WILL BE SUPPLIED IN THE FUTURE, THE ONSITE FACILITIES SHALL BE DESIGNED TO USE RECYCLED WATER. PROVISIONS SHALL BE MADE, AS DIRECTED BY THE DISTRICT, TO ALLOW FOR CONNECTION TO THE RECYCLED DISTRIBUTION MAIN WHEN IT BECOMES AVAILABLE IN THE INTERIM. POTABLE WATER SHALL BE SUPPLIED THROUGH A TEMPORARY POTABLE WATER CONNECTION USING A MASTER REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE INSTALLED PER THESE STANDARD SPECIFICATIONS. WHEN RECYCLED WATER BECOMES AVAILABLE, THE OWNER SHALL REMOVE THE BACKFLOW PREVENTION DEVICE IN THE PRESENCE OF, AND AS DIRECTED BY, THE DISTRICT ENGINEER. THE ONSITE SYSTEM WILL BE CONNECTED TO THE RECYCLED WATER DISTRIBUTION MAIN PER THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AT THE TIME THE CONNECTION IS MADE.  
D. ONSITE RECYCLED WATER SYSTEMS SHALL BE DESIGNED TO INCLUDE BACKFLOW PREVENTION PER THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. IN SOME CASES, MORE STRINGENT BACKFLOW PROTECTION MAY BE REQUIRED.  
E. THE RECYCLED WATER SYSTEM SHALL BE SEPARATE AND INDEPENDENT OF ANY POTABLE WATER SYSTEM. CROSS CONNECTIONS BETWEEN POTABLE WATER FACILITIES AND RECYCLED WATER FACILITIES ARE PROHIBITED.  
F. HOSE BIBS ON RECYCLED WATER FACILITIES ARE PROHIBITED.  
G. FIRE HYDRANTS, WHARF HEADS, OR OTHER APURTANCES SHALL ONLY BE INCLUDED IN THE DESIGN WHEN THESE APURTANCES ARE EXPRESSLY APPROVED BY THE DISTRICT AND DOHS.  
H. DRINKING FOUNTAINS SHALL BE PROTECTED FROM THE SPRAY OF RECYCLED WATER. THERE SHALL BE NO DIRECT CONTACT OF RECYCLED WATER WITH A DRINKING FOUNTAIN. PROTECTION OF DRINKING FOUNTAINS CAN BE ACCOMPLISHED EITHER BY

MAINTAINING A HORIZONTAL SEPARATION OF AT LEAST 9M (30') BETWEEN THE DRINKING FOUNTAIN AND THE NEAREST SPRAY TYPE EMITTER. SPRAY HEAD MODIFICATION OR BY THE USE OF A COVERED FOUNTAIN. THE MANNER USED TO PROTECT DRINKING FOUNTAINS FROM THE SPRAY OF RECYCLED WATER SHALL BE APPROVED BY THE DISTRICT AND DOHS.  
I. POTABLE AND RECYCLED LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH. RECYCLED LINES SHALL BE DESIGNED TO BE INSTALLED BELOW THE POTABLE LINES WHERE THE TWO PIPELINES RUN PARALLEL. TO EACH OTHER, WHERE THIS IS NOT POSSIBLE, THE RECYCLED LINE SHALL BE INSTALLED IN A CASING. DETAILS OF THIS INSTALLATION SHALL BE CLEARLY DRAWN ON THE PLANS.  
J. ONSITE RECYCLED WATER IRRIGATION SYSTEMS SHALL BE DESIGNED TO MEET THE PEAK MOISTURE DEMAND OF THE PLANT MATERIAL TO BE IRRIGATED. THE USE OF MOISTURE SENSORS IS ENCOURAGED, BUT NOT MANDATORY.  
K. ONSITE RECYCLED WATER IRRIGATION SYSTEMS SHALL BE DESIGNED TO APPLY IRRIGATION WATER IN A MANNER COMPATIBLE WITH THE INFILTRATION RATES OF THE SOIL TYPES WITHIN THE APPROVED USE AREA. EVIDENCE THAT INFILTRATION RATES HAVE BEEN ASSESSED SHALL BE INCLUDED WITH THE DESIGN, WHERE VARYING SOIL TYPES ARE PRESENT, THE SYSTEM DESIGN SHALL BE COMPATIBLE WITH THE LOWEST INFILTRATION RATE PRESENT.  
L. ONSITE RECYCLED WATER SYSTEMS SHALL BE DESIGNED TO PREVENT DISCHARGE ONTO AREAS NOT UNDER CONTROL OF THE OWNER. APPROPRIATE SPRINKLERS, HUBBLERS, EMITTERS, ROTORS, ETC., SHALL BE EMPLOYED IN THE DESIGN TO CONFINE THE DISCHARGE TO THE APPROVED USE AREA. THE DESIGN SHALL AVOID SPRAY PATTERNS WHICH DISCHARGE ONTO OBSTRUCTIONS THAT TEND TO CONCENTRATE WATER WHICH RESULTS IN PONDING AND/OR RUNOFF.  
M. ONSITE RECYCLED IRRIGATION SYSTEMS SHALL BE DESIGNED TO PROVIDE A PHYSICAL SEPARATION BETWEEN ADJACENT AREAS IRRIGATED WITH POTABLE WATER. THE MEANS OF SEPARATION SHALL BE PROVIDED BY EITHER A DISTANCE OF 3M (10'), CONCRETE MOW STRIPS, APPROVED FENCE OR OTHER APPROVED MEANS. WHERE CONCRETE MOW STRIPS OR OTHER MEANS ARE USED, THEY SHALL BE SHOWN ON THE PLANS.  
N. ONSITE RECYCLED WATER SYSTEMS SHALL BE DESIGNED TO OPERATE DURING PERIODS OF MINIMAL PUBLIC USE OF THE AREA. THE TOTAL TIME REQUIRED TO IRRIGATE THE DESIGN AREA SHALL NOT EXCEED NINE (9) HOURS IN ANY TWENTY FOUR (24) HOUR PERIOD. THE SYSTEM SHALL BE DESIGNED TO OPERATE BETWEEN THE HOURS OF 9 PM AND 6 AM.  
O. ONSITE RECYCLED WATER SYSTEM DESIGNS SHALL INCLUDE AUTOMATIC SYSTEM CONTROL DEVICES WHICH CAN BE EASILY ADJUSTED TO MINIMIZE PONDING AND RUNOFF.  
P. ONSITE RECYCLED WATER SYSTEM DESIGN PLANS SHALL CONTAIN THE FOLLOWING INFORMATION FOR EACH METER REQUESTED:  
1. METER LOCATION AND SIZE  
2. GROSS AND NET IRRIGATION AREA SERVED BY EACH METER (SQ. FT. OR ACRES)  
3. PEAK FLOW THROUGH THE METER IN GALLONS PER MINUTE (GPM)  
4. ESTIMATE OF THE YEARLY DEMAND IN GALLONS PER FOOT (GPF)  
5. DESIGN OPERATING PRESSURE AT THE METER IN POUNDS PER SQUARE INCH (PSI)  
Q. ONSITE RECYCLED WATER SYSTEM DESIGN PLANS SHALL CONTAIN A LEGEND SHOWING THE PERTINENT DATA FOR THE MATERIALS TO BE USED IN THE SYSTEM CONSTRUCTION. INCLUDED SHALL BE A PIPE SCHEDULE (LISTING PIPE SIZES AND MATERIALS OF CONSTRUCTION), VALVE TYPES (INCLUDING QUICK-COUPLING TYPE VALVES), AND THE FOLLOWING INFORMATION FOR EACH TYPE OF SPRINKLER DEVICE:  
1. MANUFACTURER AND MODEL NUMBER  
2. SPRINKLER RADIUS IN FEET  
3. OPERATING PRESSURE IN PSI  
4. FLOW IN GPM  
5. SPRINKLER PATTERN  
R. ONSITE RECYCLED WATER DESIGN PLANS SHALL CONTAIN THE FOLLOWING DETAILED INFORMATION:  
1. POINTS OF CONNECTION  
2. ROUTING OF ALL PIPES  
3. GATE VALVES  
4. CONTROL VALVES  
5. QUICK-COUPLING VALVES  
6. ROUTING OF CONTROL WIRES  
7. CONTROL STATIONS  
8. THE AREA CONTROLLED BY EACH CONTROL STATION  
9. SIGNAGE PLAN AND SIGN DETAIL  
10. CROSS CONNECTION TEST STATION LOCATIONS AND DETAIL  
11. LOCATION OF MOW STRIPS, FENCES, WALLS, OR OTHER BARRIERS  
12. ADJACENT PARCELS, LOTS OR HOIE SITES IRRIGATED WITH POTABLE WATER  
S. ONSITE RECYCLED WATER DESIGN PLANS SHALL CLEARLY DETAIL BACKFLOW PREVENTION DEVICES, ALL POTABLE WATER LINES, BUILDINGS, WALLS, EXTERIOR DRINKING, AND DECORATIVE FOUNTAINS, SWIMMING POOLS, PLAYGROUNDS, OR ANY OTHER PERMANENT FACILITIES IN THE DESIGN AREA. IF NONE OF THE ITEMS LISTED IN THIS PARAGRAPH ARE PRESENT IN THE DESIGN AREA, IT SHALL BE SPECIFICALLY STATED IN THE PLANS THAT NONE EXIST.  
T. ONSITE RECYCLED WATER DESIGN PLANS SHALL CLEARLY INDICATE THE FOLLOWING MINIMUM TOP OF PIPE DEPTH REQUIREMENTS:  
1. INTERMITTENT PRESSURE LINES 50MM (2") IN DIAMETER AND SMALLER: 300MM (12") DEEP.  
2. CONSTANT PRESSURE LINES LESS THAN 150MM (6") IN DIAMETER: 450MM (18") DEEP.  
3. CONSTANT PRESSURE LINES 150MM (6") IN DIAMETER AND LARGER: 750MM (30") DEEP.  
U. THE DISTRICT'S RECYCLED WATER USE NOTES ARE TO BE INCLUDED ON ALL ONSITE RECYCLED WATER SYSTEM DESIGN PLANS. THESE NOTES, AS APPLIED, MAY BE EXPANDED OR OTHERWISE MODIFIED AS DIRECTED BY THE DISTRICT.  
V. THE NAME(S) AND 24-HOUR CONTACT TELEPHONE NUMBER FOR THE PARTY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE SYSTEM SHALL APPEAR ON THE COVER SHEET OF THE DESIGN PLANS.  
W. AN INSPECTION NOTE SHALL BE SHOWN ON EACH PAGE OF THE DESIGN PLANS. THE NOTE SHALL BE AS FOLLOWS: THE DISTRICT INSPECTION DIVISION SHALL BE NOTIFIED 48 HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.

**1.09 WARNING/IDENTIFICATION TAPE**  
ALL IRRIGATION PIPE, BOTH POTABLE AND RECYCLED, SHALL INCLUDE THE INSTALLATION OF WARNING/IDENTIFICATION TAPE.

**PART 2 MATERIALS**

**2.01 ONSITE RECYCLED WATER FACILITIES**  
A. PIPE SHALL BE SOLID PURPLE-COLORED PVC MATERIAL CONFORMING TO THE FOLLOWING:  
1. 75MM (3") OR SMALLER PIPE SHALL CONFORM TO ASTM-D1784, TYPE 1, GRADE 1, PVC-1120 FOR SCHEDULE 40 OR 80, OR ASTM-D2241, TYPE 1, GRADE 1, PVC-120 FOR SDR RATED PIPE. ENDS SHALL BE SOLVENT WELDED JOINTS CONFORMING TO ASTM-D2872.  
2. 100MM (4") AND LARGER PIPE SHALL CONFORM TO EITHER AWWA C900 OR C905 WITH ELASTOMERIC RING BELL-TYPE PIPE ENDS, CONFORMING TO ASTM-D3318, WHEN PURPLE PIPE IS UNAVAILABLE, 0.203MM (0.008") OR 8 MILS PURPLE PLASTIC SLEEVE MATERIAL MAY BE USED IN ADDITION TO SECTION 15151.  
3. IDENTIFICATION MARKINGS SHALL BE CONTINUOUS ON TWO SIDES OF THE PIPE. MARKINGS SHALL INCLUDE THE NOMINAL PIPE SIZE, PIPE TYPE, ASTM OR AWWA DESIGNATION, PRESSURE RATING AND THE WORDS "CAUTION-RECYCLED WATER".  
B. FITTINGS FOR PVC PIPE SHALL CONFORM TO THE FOLLOWING:  
1. 75MM (3") AND SMALLER PIPE SHALL USE SOLVENT WELD JOINT FITTINGS, MINIMUM SCHEDULE 40, WITH A WORKING PRESSURE RATING NO LOWER THAN THAT OF THE PIPE. SCHEDULE 40 FITTINGS SHALL CONFORM TO ASTM-D2466 AND SCHEDULE 80 FITTINGS TO ASTM-D2464 AND D-2467 PVC SOLVENT CEMENT SHAL CONFORM TO ASTM-D2564.  
2. 100MM (4") AND LARGER PIPE SHALL USE EITHER MECHANICAL JOINT DUCTILE-IRON CLASS 350 FITTINGS CONFORMING TO AWWA C153 OR GRIIP TITE FITTINGS CONFORMING TO AWWA C110 AND C111.  
C. WARNING TAPE SHALL BE AN INERT PLASTIC FILM FORMULATED FOR PROLONGED UNDERGROUND CONDITIONS. THE MINIMUM THICKNESS SHALL BE 0.102MM (0.004 OR 4 MILS) AND THE OVERALL WIDTH SHALL BE A MINIMUM OF 75MM (3"). THE TAPE SHALL HAVE PURPLE PRINTING ON A SILVER BACKGROUND OR BLACK PRINTING ON A PURPLE BACKGROUND WITH THE WORDS "CAUTION: RECYCLED WATERLINE BELOW".  
D. QUICK-COUPLING VALVES SHALL BE A/CME THREAD TYPE FOR OPERATION WITH A SPECIAL COUPLER KEY. THEY SHALL BE CONSTRUCTED OF BRASS WITH A SOLID PURPLE-COLORED LOOKING RUBBER OR VINYL COVER. THE LOOKING COVER SHALL HAVE THE WARNING "NON-POTABLE-DO NOT DRINK" IN ENGLISH AND SPANISH, AND THE INTERNATIONAL "DO NOT DRINK" SYMBOL. THE WARNINGS SHALL BE PERMANENTLY MOLDED INTO THE COVER.  
E. SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC.  
F. VALVE BOXES SHALL BE PER INDUSTRY STANDARDS WITH SOLID PURPLE-COLORED LIDS AS A MINIMUM. THE ENTIRE BOX MAY BE MOLDED FROM PURPLE-COLORED PC. THE LIDS SHALL HAVE THE WARNING "NON-POTABLE-DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" SYMBOL. THE WARNINGS SHALL BE PERMANENTLY MOLDED INTO THE LID.  
G. VALVES SHALL HAVE THEIR EXTERIOR SURFACE PAINTED PURPLE AND BE TAGGED WITH IDENTIFICATION TAGS. THE PURPLE PAINT SHALL BE AS LISTED ON THE APPROVED MATERIALS LIST. IDENTIFICATION TAGS SHALL BE 75MM X 100MM (3" X 4") WEATHER-PROOF PURPLE PLASTIC. THE PLASTIC TAGS SHALL BE IMPRINTED IN BLACK PERMANENT MARKINGS WITH THE WORDS "CAUTION: RECYCLED WATER-DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA-NO BEBER" ON THE OPPOSITE SIDE.

H. WARNING LABELS AND SIGNS SHALL BE REQUIRED AND INSTALLED PER THE APPROVED SIGNAGE PLANS. LABELS AND SIGNS SHALL BE SUBMITTED TO THE DISTRICT ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. THE LABELS AND SIGNS SHALL NOTIFY THAT THE SYSTEM CONTAINS RECYCLED WATER THAT IS UNSAFE TO DRINK. THEY SHALL BE IN ENGLISH AND SPANISH WITH THE INTERNATIONAL "DO NOT DRINK" SYMBOL, AS A MINIMUM, SIGNS SHALL BE INSTALLED AT IMPOUNDMENTS, INGRESS AND EGRESS POINTS, AND ON THE EXTERIOR FRONT PANEL OF IRRIGATION CONTROLLERS. I STRAINERS SHALL BE THE SAME NOMINAL SIZE AS THE SERVICE METER AND SHALL HAVE A BALL VALVE ON THE STRAINER LEG FOR FLUSHING. 50MM (2") AND SMALLER WYE PATTERN STRAINERS SHALL BE BRONZE BODY, IN-LINE TYPE WITH STAINLESS STEEL SCREENS. STRAINERS SHALL HAVE A 13MM (1/2") BRONZE BALL VALVE INSTALLED ON THE STRAINER'S WYE LEG. 75MM (3") AND LARGER WYE PATTERN STRAINERS SHALL BE CAST-OR DUCTILE-IRON AND HAVE THE SIZE BALL VALVE RECOMMENDED BY THE MANUFACTURER INSTALLED IN THE STRAINERS WYE LEG.  
I. CHECK VALVES SHALL BE IN-LINE, SPRING-LOADED, BRONZE-BODY CONSTRUCTION. CHECK VALVES SHALL BE GLOBE, WAFFER, OR DUAL CHECK TYPE VALVES WITH STAINLESS STEEL SPRINGS. CHECK VALVES SHALL BE THE SAME SIZE AS THE SERVICE METER.  
K. A MORE STRINGENT METHOD OF BACKFLOW PREVENTION MAY BE REQUIRED WHEN A FERTILIZER OR PESTICIDE INJECTION SYSTEM IS SHOWN ON THE APPROVED PLANS.

**2.02 ONSITE POTABLE WATER FACILITIES**  
A. PIPE SHALL BE WHITE OR BLUE-COLORED PVC MATERIAL CONFORMING TO THIS SPECIFICATION.  
B. QUICK-COUPLING VALVES SHALL NOT BE A/CME THREAD TYPE. THEY SHALL HAVE A COVER MADE OF BRASS, YELLOW RUBBER OR VINYL.  
C. ONSITE SYSTEMS DISTRIBUTING POTABLE WATER SHALL NOT HAVE PURPLE MARKINGS.

**2.03 WARNING/IDENTIFICATION TAPE**  
WARNING/IDENTIFICATION TAPE MATERIALS SHALL CONFORM TO SECTION 15000.

**PART 3 EXECUTION**

**3.01 ONSITE RECYCLED WATER FACILITIES**  
A. ONSITE RECYCLED WATER FACILITIES SHALL NOT BE INSTALLED UNTIL THE PLANS HAVE BEEN APPROVED BY THE DISTRICT ENGINEER AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES (DOHS), AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE DISTRICT INSPECTION DIVISION. IF ANY PORTION OF THE ONSITE RECYCLED SYSTEM IS INSTALLED PRIOR TO PLAN APPROVAL AND/OR INSPECTION, ALL OR ANY PORTION OF THE SYSTEM SHALL BE EXPOSED AND CORRECTED AS DIRECTED BY THE DISTRICT ENGINEER.  
B. ONSITE RECYCLED WATER FACILITIES SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLANS. DEVIATIONS FROM THESE PLANS BY THE INSTALLER SHALL NOT BE PERMITTED UNTIL THE REVISED PLANS HAVE BEEN SUBMITTED TO, AND APPROVED BY, THE GOVERNING REGULATORY AGENCIES.  
C. INSTALLATION OF ONSITE RECYCLED WATER FACILITIES SHALL CONFORM TO THE FOLLOWING:  
1. THE RECYCLED WATER SYSTEM SHALL BE SEPARATE AND INDEPENDENT OF ANY POTABLE WATER SYSTEM. CROSS CONNECTIONS BETWEEN POTABLE WATER FACILITIES AND ONSITE RECYCLED WATER FACILITIES ARE PROHIBITED.  
2. HOSE BIBS ON RECYCLED WATER FACILITIES ARE PROHIBITED.  
3. DRINKING FOUNTAINS SHALL BE PROTECTED FROM THE SPRAY OF RECYCLED WATER IN A MANNER APPROVED BY THE GOVERNING REGULATORY AGENCIES AND AS DIRECTED BY THE DISTRICT ENGINEER.  
4. CONDITIONS THAT CAUSE OVERSPRAY, PONDING AND RUNOFF SHALL BE LIMITED OR PREVENTED.  
D. ONSITE RECYCLED WATER AND POTABLE WATER FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:  
1. THE HORIZONTAL SEPARATION BETWEEN ONSITE RECYCLED AND POTABLE LINES SHALL BE A MINIMUM OF 1200MM (48"), MEASURED BETWEEN OUTSIDE DIAMETERS.  
2. IN GENERAL, ONSITE RECYCLED WATER LINES SHALL BE INSTALLED BELOW POTABLE WATER LINES, WITH A MINIMUM VERTICAL SEPARATION OF 300MM (12"), MEASURED BETWEEN OUTSIDE DIAMETERS. EXCEPTIONS TO THIS GENERAL REQUIREMENT ARE AS FOLLOWS:  
A. RECYCLED WATER LINES MAY BE INSTALLED ABOVE POTABLE WATER LINES WHERE THE RECYCLED LINES (LATERALS) ARE INTERMITTENTLY PRESSURIZED. NO SPECIAL CONSTRUCTION REQUIREMENTS ARE NECESSARY, PROVIDED THE 300MM (12") VERTICAL SEPARATION IS MAINTAINED.  
B. CONSTANTLY PRESSURIZED RECYCLED WATER LINES MAY BE INSTALLED ABOVE POTABLE WATER LINES PROVIDING THE RECYCLED PRESSURED LINE HAS AN AUTOMATIC FLOW CONTROL SHUT-OFF DEVICE INSTALLED, OR THE RECYCLED LINE IS SLEEVED. AN AUTOMATIC FLOW CONTROL SHUT-OFF DEVICE SHALL TERMINATE ALL FLOW TO A LATERAL AUTOMATICALLY SHOULD THE FLOW EXCEED A PRESET MAXIMUM FLOW (GPM). SLEEVING SHALL EXTEND 1.5M (5') EACH SIDE FROM THE CENTER-LINE OF THE POTABLE LINE. FOR A TOTAL LENGTH OF 3M (10'), THE SLEEVE SHALL BE PURPLE PVC. IN ALL CASES, THE 300MM (12") VERTICAL SEPARATION SHALL BE MAINTAINED.  
E. ONSITE RECYCLED WATER SYSTEMS SHALL BE INSTALLED TO PREVENT DISCHARGE ONTO AREAS NOT UNDER CONTROL OF THE OWNER. APPROPRIATE IRRIGATION COMPONENTS SHALL BE EMPLOYED IN THE INSTALLATION TO CONFINE THE DISCHARGE TO THE APPROVED USE AREA. THE INSTALLATION SHALL AVOID SPRAY PATTERNS WHICH DISCHARGE ONTO OBSTRUCTIONS THAT TEND TO CONCENTRATE WATER TO PRODUCE PONDING AND/OR RUNOFF.

**3.03 MONITORING AND INSPECTION**  
THE DISTRICT SHALL MONITOR AND INSPECT THE ENTIRE RECYCLED DISTRIBUTION FACILITY, INCLUDING BOTH OFFSITE AND ONSITE FACILITIES. THE DISTRICT SHALL CONDUCT MONITORING PROGRAMS, MAINTAIN RECORDS AS DEEMED NECESSARY, INSPECT F. ONSITE RECYCLED WATER SYSTEMS SHALL BE INSTALLED TO OPERATE DURING PERIODS OF MINIMAL PUBLIC USE OF THE AREA. THE TOTAL TIME REQUIRED TO IRRIGATE THE DESIGN AREA SHALL NOT EXCEED NINE (9) HOURS IN ANY 24-HOUR PERIOD. THE SYSTEM SHALL BE INSTALLED TO OPERATE BETWEEN THE HOURS OF 9 PM AND 6 AM.  
G. ONSITE RECYCLED WATER SYSTEMS SHALL BE INSTALLED TO THE FOLLOWING MINIMUM TOP OF PIPE DEPTH REQUIREMENTS:  
1. INTERMITTENT PRESSURE LINES 50MM (2") AND SMALLER - 300MM (12").  
2. CONSTANT PRESSURE LINES SMALLER THAN 150MM (6") - 450MM (18").  
3. CONSTANT PRESSURE LINES 150MM (6") AND LARGER - 750MM (30").  
H. WARNING/IDENTIFICATION TAPE SHALL BE INSTALLED ON ALL ONSITE POTABLE AND RECYCLED LINES AS CALLED FOR IN SECTION 15000.

**3.04 VIOLATION AND NOTIFICATION**  
A. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHETHER A VIOLATION OF THE RULES AND REGULATIONS HAS RESULTED FROM ANY ACTION OR OCCURRENCE THAT IS THE RESPONSIBILITY OF A CUSTOMER. INsofar AS THE VIOLATION OF THESE STANDARDS SPECIFICATIONS CONSTITUTES A VIOLATION OF ANY REGULATORY AGENCY REQUIREMENT, THE DISTRICT SHALL MAKE ITS DETERMINATION WITH CONSULTATION ON BEHALF OF THE CONCERNED AGENCY.  
B. SPECIFIC VIOLATIONS SHALL INCLUDE THOSE THAT DIRECTLY CAUSE NON-COMPLIANCE WITH ANYONE OF THE SPECIFIC PROHIBITIONS AS LISTED IN THESE RULES AND REGULATIONS. HOWEVER, BY DEFINITION, NON-COMPLIANCE WITH ANY CONDITION OR CONDITIONS OF THESE RULES AND REGULATIONS, WHETHER WILLFULLY OR BY ACCIDENT, SHALL CONSTITUTE A VIOLATION. C. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO NOTIFY THE DISTRICT OF ANY AND ALL FAILURES IN THE ONSITE RECYCLED WATER SYSTEM WHETHER OR NOT IN THE CUSTOMER'S OPINION THE FAILURES RESULTED IN VIOLATIONS. FAILURES MAY OCCUR AS A RESULT OF THE CUSTOMER'S ACTION, AN ACTION BY UNAUTHORIZED PERSONNEL OR ANY NON-DESIGNATED USE OF THE RECYCLED WATER SERVICE. IF THERE ARE ANY DOUBTS REGARDING WHETHER A VIOLATION HAS OCCURRED, THE CUSTOMER SHOULD NOTIFY THE DISTRICT SO THAT A DETERMINATION CAN BE MADE.  
D. NOTIFICATION OF FAILURES AND VIOLATIONS SHOULD BE MADE BY TELEPHONE, AS SOON AS POSSIBLE, TO THE DISTRICT. IF THE FAILURE OCCURS AFTER NORMAL BUSINESS HOURS, NOTIFICATION SHOULD BE MADE NO LATER THAN 9:00 A.M. ON THE NEXT REGULAR BUSINESS DAY FOLLOWING THE OCCURRENCE.

**3.05 CORRECTIVE ACTION**  
A. IF THE DISTRICT'S INVESTIGATION RESULTS IN THE DETERMINATION THAT A VIOLATION HAS OCCURRED, THEN IT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER TO INITIATE CORRECTIVE ACTION. PERTINENT VIOLATIONS WILL BE DOCUMENTED AND A COPY OF THIS NOTICE WILL BE HAND-DELIVERED OR MAILED TO THE CUSTOMER.  
B. A TIMEFRAME FOR COMPLETING THE CORRECTIVE ACTION SHOULD BE NEGOTIATED WITH THE DISTRICT BY THE CUSTOMER. SUCH CORRECTIVE ACTIONS CAN INVOLVE HUMAN FACTORS, SUCH AS ADDITIONAL TRAINING OR PROCEDURES MODIFICATIONS, AS WELL AS PHYSICAL ALTERATIONS TO THE SYSTEM. CORRECTIONS NOT MADE IN ACCORDANCE WITH THE TIMEFRAME SHALL RESULT IN THE TERMINATION OF SERVICE BY SHUTTING OFF AND LOCKING THE METER.  
C. IF, IN THE OPINION OF THE DISTRICT, THE VIOLATION CONSTITUTES AN IMMEDIATE DANGER TO THE PUBLIC HEALTH, THEN SERVICE SHALL BE TERMINATED IMMEDIATELY BY SHUTTING OFF THE METER OR SERVICE AND LOCKING IT. SERVICE SHALL BE RESUMED ONLY AFTER THE VIOLATION HAS BEEN CORRECTED TO THE SATISFACTION OF THE DISTRICT.  
D. THE CUSTOMER IS TO MAINTAIN A WRITTEN LOG OF ALL SYSTEM FAILURES AND VIOLATIONS, INCLUDING CORRECTIVE ACTION TAKEN. THE LOG WILL BE REVIEWED BY THE DISTRICT REGULARLY.

**3.06 ADMINISTRATIVE REVIEW**  
A MANDATORY ADMINISTRATIVE REVIEW WILL BE CONDUCTED TO EXAMINE CUSTOMER'S IRRIGATION PRACTICE IF THREE WRITTEN VIOLATIONS ARE ISSUED WITHIN A 30-DAY PERIOD. THE DISTRICT AND CUSTOMER OR AGENT IS REQUIRED TO PRESENT REASONS FOR NON-COMPLIANCE WITH THESE RULES AND REGULATIONS. THE CUSTOMER SHALL PRESENT A PLAN FOR CORRECTIVE ACTION ACCEPTABLE TO THE DISTRICT AND THE REGULATORY AGENCIES. THE ACCEPTED PLAN AND IMPLEMENTATION SCHEDULE SHALL BE ADHERED TO OR SERVICE MAY BE SUSPENDED.

**LANDSCAPE IRRIGATION SPECIFICATIONS**

**PART 1 - GENERAL PROVISIONS**

**PART 1 SHALL CONFORM TO PART 1 SECTION 15152 OF THE WATER AGENCIES' STANDARDS, LATEST EDITION, WHERE APPLICABLE, EXCEPT AS HEREINAFTER MODIFIED, REVISED AND/OR CHANGED:**

**1.1. DEFINITIONS:**  
1.1.1. CITY: CITY OF CHULA VISTA  
1.1.2. OWNER: HOME FED CORP.  
1.1.3. LANDSCAPE ARCHITECT: TRIBUTARY 17 LA.

**1.2. SCOPE OF CONTRACT:**  
1.2.1. THE FOLLOWING TERMS, CONDITIONS, AND INSTRUCTIONS, AS WELL AS THE LANDSCAPE ARCHITECT'S PLANS AND SPECIFICATIONS, THE CONTRACTOR'S CONTRACT AND SHOP DRAWINGS AND ANY CHANGE ORDERS AND/OR ADDENDUMS ISSUED BY LANDSCAPE ARCHITECT SHALL FORM THE GENERAL CONTRACT.  
1.2.2. NO CHANGE FROM THE GENERAL CONTRACT SHALL BE MADE WITHOUT AUTHORIZATION FROM THE LANDSCAPE ARCHITECT AND OWNER. ALL SUCH INSTRUCTIONS SHALL BE IN WRITING ON A "CHANGE ORDER" FORM. UNLESS CONTRACTOR NOTICES LANDSCAPE ARCHITECT WITHIN FORTY-EIGHT (48) HOURS UPON RECEIPT OF A CHANGE ORDER, SUCH ORDER SHALL CONSTITUTE A PART OF THE GENERAL CONTRACT. THE LANDSCAPE ARCHITECT SHALL HAVE AUTHORITY TO MAKE MINOR CHANGES. ANY CHANGES INVOLVING EXTRA COST OR ALTERATION OF THE OVERALL APPEARANCE OF THE PROJECT SHALL BE COUNTER-SIGNED BY THE OWNER. THE LANDSCAPE ARCHITECT MAY INSTRUCT THE CONTRACTOR TO ISSUE CHANGE ORDERS FOR ANY ADDITION, ALTERATION, OR DEDUCTION HE WISHES TO MAKE. THE CONTRACT PRICE SHALL BE ADJUSTED BY EQUITABLE AGREEMENT TO COVER SUCH CHANGES. IF ANY INSTRUCTION BY LANDSCAPE ARCHITECT INVOLVES EXTRA COST TO THE CONTRACTOR, HE SHALL GIVE WRITTEN NOTICE TO THE OWNER BEFORE PROCEEDING WITH WORK.

**1.3. LANDSCAPE CONSTRUCTION DOCUMENTS:**  
1.3.1. THE OWNER SHALL FURNISH THE CONTRACTOR WITH ALL DRAWINGS, SPECIFICATIONS, REVISIONS ORDERED BY THE LANDSCAPE ARCHITECT, AND CHANGE ORDERS. THE CONTRACTOR WILL FURNISH HIS CONTRACT, ANY SHOP DRAWINGS REQUIRED AND A WORK SHEET ON WHICH HE WILL NOTE ANY DEVIATION FROM THE GENERAL CONTRACT NOT OTHERWISE COVERED. THE CONTRACTOR WILL KEEP ON THE JOB AT ALL TIMES A FIELD SET OF DRAWINGS, WORK SHEET AND SHOP DRAWINGS, UPDATED WEEKLY, UPON WHICH DEVIATIONS ARE NOTED.  
1.3.2. THESE PLANS ARE PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR; THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, WHICH MAY AFFECT THE INTENDED DESIGN OF THE LANDSCAPE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.  
1.3.3. THE IRRIGATION DESIGN AS INDICATED ON THE PLANS IS DIAGRAMMATIC. SCALED DIMENSIONS ARE APPROXIMATE. VERIFY ALL SITE DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.

**1.4. RELATED DOCUMENTS:**  
1.4.1. LOCAL, MUNICIPAL AND STATE CODES, LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY MADE A PART OF THESE PLANS AND SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) 2000 EDITION, AND ASSOCIATED SUPPLEMENTS.  
1.4.2. CITY OF CHULA VISTA'S LANDSCAPE MANUAL, LATEST EDITION AND THE DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS, LATEST EDITION.  
1.4.3. THE OTAY WATER DISTRICT'S STANDARD SPECIFICATIONS FOR WATER, SEWER AND RECYCLED FACILITIES, DATED LATEST EDITION.  
1.4.4. COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH, RECYCLED WATER PLAN CHECK AND INSPECTION MANUAL, DATED LATEST EDITION.  
1.4.5. AWWA - AMERICAN WATER WORKS ASSOCIATION GUIDELINES FOR DISTRIBUTION OF NON-POTABLE WATER  
1.4.6. CCR - CALIFORNIA CODE OF REGULATIONS TITLE 22 AND TITLE 17.  
1.4.7. DOHS - DEPARTMENT OF HEALTH SERVICES  
1.4.8. WAS STANDARD DRAWINGS  
1.4.9. WAS STANDARD SPECIFICATION 01000

**1.5. DESCRIPTION OF WORK:**  
1.5.1. THE WORK CONSISTS OF FURNISHING LABOR, TOOLS, MACHINERY, MATERIALS, AND PROCESSES REQUIRED TO COMPLETE THE SPRINKLER IRRIGATION SYSTEM DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS.  
1.5.2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO INDICATE AND SPECIFY A COMPLETE SPRINKLER SYSTEM, INSTALLED READY FOR USE WITHOUT FURTHER COST IN LABOR OR MATERIALS TO THE OWNER AND COMPLYING WITH ALL APPLICABLE CODES, SPECIFICATIONS AND DETAILS.

**1.6. FINANCIAL ASSURANCE:**  
1.6.1. SUBCONTRACT WORK TO A SINGLE FIRM SPECIALIZING IN IRRIGATION WORK. CONTRACTOR SHALL POSSESS ALL LICENSES AND PERMITS REQUIRED TO PERFORM THE WORK OF THIS CONTRACT INCLUDING A C-27 LANDSCAPING LICENSE.

**1.7. PRODUCT DATA SUBMITTALS:**  
1.7.1. THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT CATALOG DATA AND FULL DESCRIPTION LITERATURE FOR APPROVAL OF ITEMS DIFFERENT THAN THOSE SPECIFIED. APPROVAL OF ANY ITEM, ALTERNATE OR SUBSTITUTE INDICATES ONLY THAT THE PRODUCT(S) APPARENTLY MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS ON THE BASIS OF THE INFORMATION OR SAMPLES SUBMITTED.

**1.8. RECORD DRAWINGS:**  
1.8.1. PRIOR TO THE INITIATION OF IRRIGATION WORK, THE LANDSCAPE CONTRACTOR SHALL REQUEST FROM THE OWNER, TWO BLUELINE SETS OF IRRIGATION PLANS AND A REPRODUCIBLE SET OF IRRIGATION PLANS FOR THEIR USE IN PREPARING THE AS-BUILT RECORD DRAWINGS.  
1.8.2. AS-BUILT RECORD DRAWINGS SHALL INCLUDE ALL FIELD REVISIONS TO THE IRRIGATION SYSTEMS AND THE FOLLOWING: WATER METER/POINT OF CONNECTIONS  
ELECTRICAL METER  
CROSS CONNECTION CONTROL STATION  
BACKFLOW ASSEMBLY  
AUTOMATIC CONTROLLER ASSEMBLY  
AUTOMATIC CONTROL VALVES  
REMOTE CONTROL VALVES W/ STATION DESIGNATION.  
ISOLATION AND QUICK COUPLING VALVES  
PRESSURE SUPPLY LINE ROUTE  
CONTROL WIRE ROUTE  
SLEEVING UNDER VEHICULAR USE AREAS  
1.8.3. IMMEDIATELY UPON THE INSTALLATION OF ANY BURIED PIPE OR EQUIPMENT, THE CONTRACTOR SHALL INDICATE ON THE DRAWINGS THE LOCATIONS OF SAID EQUIPMENT. DIMENSIONS SHALL BE PROVIDED FROM TWO SEPARATE GIVEN PERMANENT OBJECTS SUCH AS BUILDINGS, SIDEWALKS, CURBS AND DRIVEWAYS.  
1.8.4. PRIOR TO FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT A COMPLETE SET OF AS-BUILT DRAWINGS IN A REPRODUCIBLE FORMAT.  
1.8.5. UPON APPROVAL FROM THE CITY OF CHULA VISTA, ALL FIELD REVISIONS SHALL BE RECORDED ON THE RECORD MYLAR DRAWINGS AND RESUBMITTED TO THE CITY OF CHULA VISTA.  
1.8.6. THE CONTRACTOR/LANDSCAPE ARCHITECT SHALL PROVIDE TO THE CITY OF CHULA VISTA AN ELECTRONIC FILE (IN PDF FORMAT OR AS DIRECTED BY THE CITY LANDSCAPE INSPECTOR) OF THE APPROVED "AS-BUILT" PLANS, EACH VALVE SYSTEM AND ASSOCIATED CALLOUTS SHALL BE COLOR CODED TO THE SATISFACTION OF THE CITY LANDSCAPE INSPECTOR.  
1.8.7. PRIOR TO THE CITY OF CHULA VISTA'S ACCEPTANCE OF A LANDSCAPE AREA WITHIN THE COMMUNITIES FACILITIES DISTRICT, A SEPARATE 11" X 17" REDUCED SCALE LANDSCAPE MAINTENANCE MAP, PREPARED IN COMPLIANCE WITH THE CITY OF CHULA VISTA'S OPEN SPACE TURN OVER REQUIREMENTS, SHALL BE SUPPLIED TO THE CITY OF CHULA VISTA'S MAINTENANCE STAFF.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 610-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
\*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
\*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

**R/W IDENTIFICATION BY COLOR CODING:**  
SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC.  
DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

OTAY WATER DISTRICT  
PROJECT NO. D0944-060189  
PZ 624, 711 RPZ 680  
REVIEWED BY: *[Signature]* DATE: 5/11/17  
SIGNATURE EXPIRES AFTER 1 YEAR

IT'S THE LAW! DIAL BEFORE YOU DIG!  
CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING  
1-800-227-2600  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA  
BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES. CALL 1-800-227-2600

"AS-BUILT"  
SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
PRINT NAME: \_\_\_\_\_ R.L.A. # \_\_\_\_\_  
DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. \_\_\_\_\_

CITY OF CHULA VISTA  
LANDSCAPE IRRIGATION SPECIFICATIONS FOR:  
**OTAY RANCH VILLAGE 3 SLOPE & EROSION CONTROL**  
CHULA VISTA TENTATIVE TRACT MAP NO. 13-02  
Drawing No. 16050 - 52  
Sheet 52 of 88

Triutary LA, Inc.  
2725 Jefferson Street, Suite 14  
Carlsbad, CA 92008  
760.434.9300 office  
760.434.9303 fax  
w.o.no. OR-3001G

DATE: 10 APR '17  
SCALE: NO SCALE  
JOB NO. 15024  
DRAWN BY: T.P./T.G.  
w.o.no. OR-3001G

**1.9. CONTROLLER CHARTS:**  
 1.9.1. THE CONTRACTOR SHALL PREPARE COLOR-CODED CHARTS SHOWING THE VALVES, MAINLINE, AND SPRINKLER HEADS SERVICED BY THAT PARTICULAR CONTROLLER.  
 1.9.2. WITHIN EACH CONTROLLER, EACH VALVE/SYSTEM SHALL BE IDENTIFIED BY A UNIQUE COLOR.  
 1.9.3. ALL VALVES SHALL BE NUMBERED TO MATCH THE OPERATION SCHEDULE AND THE DRAWINGS. ONLY THOSE AREAS CONTROLLED BY THAT CONTROLLER SHALL BE SHOWN.  
 1.9.4. CONTROLLER CHARTS SHALL BE A PLOT PLAN, ENTIRE OR PARTIAL, SHOWING BUILDINGS, WALKS, ROADS AND WALLS. A PHOTOGRAPHIC PRINT OF THIS PLAN, REDUCED AS NECESSARY AND LEGIBLE IN ALL DETAILS, SHALL BE MADE TO A SIZE THAT WILL FIT INTO THE CONTROLLER COVER.  
 1.9.5. THIS PRINT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT OR THE OWNER'S AUTHORIZED REPRESENTATIVE AND SHALL BE HERMETICALLY SEALED BETWEEN TWO PIECES OF TEN MILLIMETER PLASTIC.  
 1.9.6. FOR EACH CONTROLLER, THE CONTRACTOR SHALL PROVIDE TWO SETS OF 11" X 17" CONTROLLER CHARTS AS FOLLOWS: ONE COLOR CODED LAMINATED SET TO THE OTAY WATER DISTRICT.  
 ONE COLOR CODED LAMINATED SET TO: SECURED ON THE INSIDE SURFACE OF THE COVER OF EACH AUTOMATIC CONTROLLER.

**1.10. EQUIPMENT, KEYS, MANUALS & CERTIFICATIONS:**  
 1.10.1. UPON COMPLETION OF THE CONTRACTOR'S MAINTENANCE PERIOD, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EQUIPMENT TO THE CITY OF CHULA VISTA:  
 A. (2) CONTROLLER/C.C.U. ENCLOSURE KEYS FOR EACH ENCLOSURE.  
 B. (2) KEYS TO ACCESS SPECIAL ELECTRICAL SWITCH INSIDE EACH CONTROLLER ENCLOSURE.  
 C. (1) ACME THREAD QUICK COUPLING KEYS AND MATCHING SWIVELS FOR RECYCLED WATER IRRIGATION SYSTEMS.  
 D. (2) SETS OF TOOLS REQUIRED FOR SERVICING AND/OR ADJUSTING EACH SPRINKLER AND VALVE TYPE.  
 E. (1) COPY OF THE BACKFLOW PREVENTION DEVICE CERTIFICATION.  
 1.0.1. IN ADDITION TO THE EQUIPMENT REQUIRED BY THE CITY OF CHULA VISTA, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE OWNER'S REPRESENTATIVE:  
 A. (1) CONTROLLER/C.C.U. ENCLOSURE KEYS FOR EACH ENCLOSURE.  
 B. (1) CONTROLLER/C.C.U. KEYS FOR EACH CONTROLLER.  
 C. (1) KEYS TO ACCESS SPECIAL ELECTRICAL SWITCH INSIDE EACH CONTROLLER ENCLOSURE.  
 D. (2) STANDARD QUICK COUPLING KEYS AND MATCHING SWIVELS FOR RECYCLED WATER IRRIGATION SYSTEMS.  
 E. (1) ACME THREAD QUICK COUPLING KEYS AND MATCHING SWIVELS FOR RECYCLED WATER IRRIGATION SYSTEMS.  
 F. (2) SETS OF TOOLS REQUIRED FOR SERVICING AND/OR ADJUSTING EACH SPRINKLER AND VALVE TYPE.  
 G. (1) COPY OF THE BACKFLOW PREVENTION DEVICE CERTIFICATION.  
 H. (2) SETS OF SERVICE MANUALS FOR ALL IRRIGATION EQUIPMENT INSTALLED.

**1.1. GUARANTEES:**  
 1.1.1. CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE IN ACCORDANCE WITH THE GENERAL CONDITIONS, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND CONCLUSION OF THE ONE (1) YEAR MAINTENANCE PERIOD. GUARANTEE SHALL COVER THE COMPLETE IRRIGATION SYSTEM, INCLUDING SETTING OF THE BACKFILL IN TRENCHES AND REPAIRS AND/OR REPLACEMENT OF ANY MATERIAL DAMAGED THEREBY OR THERE FROM.  
 1.1.2. MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTY SHALL ONLY SUPPLEMENT THE GUARANTEE.

**1.2. WATER SERVICE:**  
 1.2.1. POINT OF CONNECTIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH OWNERS AUTHORIZED REPRESENTATIVE AND GOVERNING WATER DISTRICT TO HAVE WATER AVAILABLE WHEN REQUIRED.  
 1.2.2. INDIVIDUALLY OWNED, ACCESSED OR MAINTAINED AREAS SHALL BE SEPARATELY METERED AND CONTROLLED.  
 1.2.3. CONTROLLERS SHALL OPERATE ON SINGLE PHASE, 110 TO 120 VOLT, 60 CYCLE, ALTERNATING CURRENT AND "UL" LISTED.  
 1.2.4. EACH POINT OF CONNECTION SHALL BE SERVICED BY A CHECK VALVE, LOCATED DOWN STREAM OF THE METER AND APPROVED BY THE CITY OF CHULA VISTA, OTAY WATER DISTRICT AND THE COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH.

**1.3. ELECTRICAL SERVICE:**  
 1.3.1. POINT OF CONNECTION SHOWN ON PLANS IS APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH OWNERS AUTHORIZED REPRESENTATIVE TO HAVE POWER AVAILABLE WHEN REQUIRED.  
 1.3.2. INDIVIDUALLY OWNED, ACCESSED OR MAINTAINED AREAS SHALL BE SEPARATELY METERED AND CONTROLLED.  
 1.3.3. CONTROLLERS SHALL OPERATE ON SINGLE PHASE, 110 TO 120 VOLT, 60 CYCLE, ALTERNATING CURRENT AND "UL" LISTED.  
 1.3.4. CONTROLLERS SHALL BE ENCLOSED IN A U.L. LISTED WEATHERPROOF CORROSION-RESISTANT ENCLOSURE WITH LOCKING COVER.  
 1.3.5. CONDUIT FOR 120 VOLT AND 24 VOLT WIRING SHALL BE APPROVED BY GOVERNING BUILDING CODES AND INSPECTIONS FOR ELECTRICAL SERVICE.

**1.4. COMMUNICATION SERVICE:**  
 1.4.1. CENTRAL CONTROL SYSTEM AND METHOD OF COMMUNICATION TO INDIVIDUAL CONTROLLERS, SHALL BE AS SPECIFIED ON PLANS.  
 1.4.2. POINT OF CONNECTION SHOWN ON PLANS IS APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH OWNERS AUTHORIZED REPRESENTATIVE TO HAVE COMMUNICATION LINE AVAILABLE WHEN REQUIRED.  
 1.4.3. PRIOR TO INSTALLATION, CONTRACTOR SHALL FIELD VERIFY THAT PHONE COMMUNICATION TO EACH CCU LOCATION IS ADEQUATE AND UNOBSTRUCTED.

**PART 2 - PRODUCTS**

**PART 2 SHALL CONFORM TO PART 2 SECTION 15152 OF THE WATER AGENCIES' STANDARDS, LATEST EDITION, WHERE APPLICABLE, EXCEPT AS HEREINAFTER MODIFIED, REVISED AND/OR CHANGED:**

**2.1. GENERAL:**  
 2.1.1. ALL MATERIALS AND EQUIPMENT SHALL BE PURCHASED NEW, SPECIFICALLY FOR THIS PROJECT, UNLESS OTHERWISE NOTED ON THE PLANS.  
 2.1.2. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME IN THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT, OR THE OWNERS AUTHORIZED REPRESENTATIVE. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT MAY BE REJECTED AND THE CONTRACTOR REQUIRED TO REMOVE AND REPLACE SUCH MATERIALS FROM THE SITE AT HIS OWN EXPENSE.  
 2.1.3. CROSS CONNECTION TEST STATIONS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE APPROVED PLANS AND DETAILED ON THE STANDARD DRAWINGS. IN GENERAL, ONE TEST STATION SHALL BE INSTALLED DIRECTLY DOWNSTREAM OF EACH POINT OF CONNECTION, DOWNSTREAM OF ANY PRESSURE REDUCING VALVES. ADDITIONAL CROSS CONNECTION STATION(S) MAY BE REQUIRED AS INDICATED ON THE APPROVED PLANS.

**2.2. BACKFLOW PREVENTION DEVICES:**  
 2.2.1. FOR POTABLE WATER: ONLY POTABLE WATER SHALL BE USED FOR HYDROTESTING, FLUSHING, THE OPERATIONAL TEST AND THE CROSS CONNECTION TEST (IF REQUIRED). POTABLE WATER SHALL BE SUPPLIED THROUGH A SEPARATE TEMPORARY WATER METER OBTAINED FROM THE DISTRICT AND LOCATED AT A DISTRICT-APPROVED POTABLE WATER SOURCE. A REDUCED PRESSURE PRINCIPLE BACKFLOW DEVICE SHALL BE INSTALLED AT GROUND LEVEL IMMEDIATELY DOWNSTREAM OF THE TEMPORARY POTABLE WATER METER. A TEMPORARY HIGH LINE SHALL BE INSTALLED TO SUPPLY THE PROPOSED RECYCLED IRRIGATION SYSTEM DURING THE CONSTRUCTION AND TESTING PERIOD.  
 2.2.1.1. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS SHALL BE BRASS, BRONZE, OR EPOXY COATED CAST IRON BODIES WITH ALL BRONZE OR STAINLESS STEEL TRIM AND ALL MOVING PARTS OF NON-CORROSIVE MATERIALS, AND SHALL COMPLETELY AND POSITIVELY PREVENT BACK-SIPHONING OF WATER. THE BACKFLOW PREVENTER ASSEMBLY SHALL INCLUDE INLET AND DISCHARGE SHUTOFF BALL VALVES WITH ALL RISERS, CONNECTORS, AND APPURTENANCES OF CLASS 1 RED BRASS PIPE, CONFORMING TO WW-P-351, AND RED BRASS FITTINGS WITH PRESSURE RATING 1 CONFORMING TO WW-P-460. BACKFLOW PREVENTERS SHALL BE OF THE TYPE AND SIZE DESIGNATED ON THE DRAWINGS.  
 2.2.1.2. ATMOSPHERIC AND ANTI-SIPHON BACKFLOW PREVENTERS SHALL BE BRASS WITH NON-CORROSIVE PARTS AND SHALL COMPLETELY AND POSITIVELY PREVENT BACK-SIPHONING OF WATER. ANTI-SIPHON VALVES SHALL BE CONVERTIBLE TO AUTOMATIC CONTROL. BACKFLOW PREVENTERS SHALL BE TYPE AND SIZE AS DESIGNATED ON THE DRAWINGS.  
 2.2.2. FOR RECYCLED WATER SYSTEMS: SPRING CHECK VALVE WITH WYE-STRAINER, CONSTRUCTED OF ASTM B-584 CAST BRONZE. CHECK VALVE SHALL BE IN-LINE AND SPRING LOADED WITH STAINLESS STEEL SPRING AND BRASS SEATS. WYE STRAINER WITH EPDM O-RING CAP GASKET. WYE STRAINER TO BE WITH 30 MESH STAINLESS STEEL SCREEN. WYE STRAINER SHALL HAVE 1/2" BRONZE BALL VALVE ON THE WYE LEGS. SIZES TO MATCH WATER METER. SEE LEGEND FOR MANUFACTURERS AND PART NUMBERS.  
 2.2.3. ATMOSPHERIC AND ANTI-SIPHON BACKFLOW PREVENTERS SHALL BE BRASS WITH NON-CORROSIVE PARTS AND SHALL COMPLETELY AND POSITIVELY PREVENT BACK-SIPHONING OF WATER. ANTI-SIPHON VALVES SHALL BE CONVERTIBLE TO AUTOMATIC CONTROL. BACKFLOW PREVENTERS SHALL BE TYPE AND SIZE AS DESIGNATED ON THE DRAWINGS.

COMPLETELY AND POSITIVELY PREVENT BACK-SIPHONING OF WATER. ANTI-SIPHON VALVES SHALL BE CONVERTIBLE TO AUTOMATIC CONTROL. BACKFLOW PREVENTERS SHALL BE TYPE AND SIZE AS DESIGNATED ON THE DRAWINGS.

**2.3. PRESSURE REGULATION DEVICES: AS SPECIFIED IN DRAWINGS.**  
 2.4. AUTOMATIC CONTROL SYSTEM: AS SPECIFIED IN DRAWINGS.  
 2.4.1. CONTRACTOR SHALL FURNISH LOW VOLTAGE SYSTEM MANUFACTURED EXPRESSLY FOR CONTROL OF AUTOMATIC CIRCUIT VALVES OF UNDERGROUND IRRIGATION SYSTEMS. PROVIDE UNIT OF CAPACITY TO SUIT NUMBER OF CIRCUITS AS INDICATED.  
 2.4.2. MECHANISM SHALL BE HOUSED IN A STURDY, VANDAL-PROOF ENCLOSURE, MANUFACTURED OF 14 GAUGE STEEL, OR CASE ALUMINUM; FURNISHED FOR MAXIMUM PROTECTION, AS CALLED FOR ON THE DRAWINGS (SIZE AS REQUIRED).

**2.5. AUTOMATIC CONTROL WIRE: LOW VOLTAGE**  
 2.5.1. DIRECT BURIAL COPPER WIRE AWG-G/F. 600 VOLT, SINGLE CONDUCTOR SOLID COPPER, PLASTIC INSULATED CABLE, U.L. APPROVED FOR DIRECT BURIAL APPLICATION.  
 2.5.2.1. FOR TRADITIONAL CONTROL SYSTEMS WITH SINGLE PILOT WIRE TO EACH REMOTE CONTROL VALVE, WIRE SIZE SHALL BE AS FOLLOWS:  
 WIRE RUN PILOT WIRE SIZE COMMON WIRE SIZE  
 TO 1200' 14 GA. 12 GA.  
 EXCEEDING 1200' 12 GA. 10 GA.  
 2.5.2.2. FOR TRADITIONAL CONTROL SYSTEMS WITH SINGLE PILOT WIRE TO EACH REMOTE CONTROL VALVE, WIRE COLOR SHALL BE AS FOLLOWS:  
 PILOT WIRES SHALL NOT BE WHITE OR RED AND MUST BE UNIQUE IN COLOR FOR EACH CONTROLLER. COMMON WIRE SHALL BE WHITE WITH COLORED STRIP EQUAL IN COLOR TO PILOT WIRE.  
 EXAMPLE:  
 CONTROLLER PILOT WIRE COMMON WIRE SPARE WIRE  
 "H-1" BLACK WHITE W/BLACK STRIP RED W/BLACK STRIP  
 "H-2" BLUE WHITE W/BLUE STRIP RED W/BLUE STRIP  
 "H-3" YELLOW WHITE W/YELLOW STRIP RED W/YELLOW STRIP  
 2.5.2.3. WIRE CONNECTORS FOR SPLICING 24 VAC CONTROL WIRE SHALL BE WATERPROOF, DIRECT BURY, PRE-FILLED SPLICE HOUSING WITH DIELECTRIC SILICONE SEALANT WITH WIRE NUTS OR BRASS CRIMP. WIRE CONNECTOR SHALL BE MODEL DBY AS MANUFACTURED BY THE 3M COMPANY, OR EQUAL.

**2.6. FLOW, RAIN, MOISTURE SENSING DEVICES:**  
 2.6.1. ALL SENSING DEVICES SHALL BE AS SPECIFIED IN DRAWINGS.  
 2.7. MASTER CONTROL / REMOTE CONTROL VALVES: AS SPECIFIED IN DRAWINGS.  
 2.7.1. VALVES SHALL BE OPERABLE MANUALLY WITHOUT ELECTRICITY BY MEANS OF AN INTERNAL BLEED. THE VALVE SHALL HAVE A PRESSURE REGULATING MODULE (CAPABLE OF REGULATING OUTLET PRESSURE BETWEEN 15 AND 100 P.S.I. (10R-5 P.S.I.)), MODULE SHALL HAVE AN ADJUSTING SCREW FOR SETTING PRESSURE AND A SCHRADER VALVE CONNECTION FOR MONITORING PRESSURE. PRESSURE REGULATOR SHALL BE ADJUSTED AT EACH VALVE FOR PROPER DOWNSTREAM PRESSURE REQUIRED.

**2.8. QUICK COUPLING VALVES:**  
 2.8.1. QUICK COUPLING VALVES SHALL BE 1" SIZE, 2-PIECE BRASS BODY WITH STAINLESS SPRING. AS SPECIFIED ON THE DRAWINGS.  
 2.8.2. QUICK COUPLING VALVES SERVICING POTABLE WATER IRRIGATION SYSTEMS SHALL ACCEPT A STANDARD BAYONET STYLE KEY. VALVE BODY SHALL BE WITH LOCKING YELLOW RUBBER COVER.  
 2.8.3. QUICK COUPLING VALVES SERVICING RECYCLED WATER IRRIGATION SYSTEMS SHALL ACCEPT AN ACME-THREADED KEY. VALVE BODY SHALL BE WITH LOCKING PURPLE RUBBER COVER. COVER SHALL BE MARKED "DO NOT DRINK" IN SPANISH AND ENGLISH, AND THE INTERNATIONAL "DO NOT DRINK" SYMBOL. THE WARNING SHALL BE PERMANENTLY MOLDED ON THE COVER.  
 2.8.3.1. ACME THREADED QUICK COUPLING VALVES ARE NOT PERMITTED ON POTABLE WATER SYSTEMS.  
 2.8.4. QUICK COUPLING KEY SHALL BE OF BRASS/BRONZE WITH SWIVEL ASSEMBLY. SUPPLY TWO (2) KEYS/SWIVEL ASSEMBLIES FOR EACH TYPE OF QUICK COUPLING VALVE USED.

**2.9. BALL VALVES OR GATE VALVES: AS SPECIFIED IN DRAWINGS.**

**2.10. NON-PRESSURE LATERAL LINE ANTI-DRAIN VALVES:**  
 2.10.1. ANTI-DRAIN VALVES SHALL BE REQUIRED TO PREVENT LOW HEAD DRAINAGE OF IRRIGATION WATER FROM SPRINKLER SYSTEM DUE TO CHANGES IN ELEVATION.  
 2.10.2. ANTI-DRAIN VALVES SPECIFIED WITHIN CITY OF CHULA VISTA C.F.D. MAINTAINED AREAS SHALL BE VALCON 5000-SERIES.  
 2.10.3. ANTI-DRAIN VALVES SPECIFIED WITHIN HOME OWNER ASSOCIATION MAINTAINED AREAS SHALL BE HUNTER HCV-SERIES.  
**2.11. MANUAL AND ANTI-SIPHON VALVES:**  
 2.11.1. MANUAL AND ANTI-SIPHON CONTROL VALVES SHALL BE BRASS OR PLASTIC WITH NON-CORROSIVE INTERNAL PARTS AND CONVERTIBLE TO AUTOMATIC CONTROL. VALVES SHALL BE THE TYPE AND SIZE AS DESIGNATED ON THE DRAWINGS.  
**2.12. VALVE AND PULL BOXES:**  
 2.12.1. VALVE BOX OR BOX ASSEMBLIES FOR USE WITH RECYCLED WATER:  
 2.12.1.1. MASTER CONTROL VALVE/PRESSURE REGULATOR ASSEMBLY:  
 2.12.1.1.1. 1" VALVE ASSEMBLY SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX AND 6" EXTENSION WITH LOCKABLE PURPLE TOP, MANUFACTURED BY DURA PLASTICS, PART #123-DB-2-DS, OR EQUAL.  
 2.12.1.1.2. 1-1/2" AND 2" VALVE ASSEMBLY SHALL BE A JUMBO RECTANGULAR PLASTIC VALVE BOX AND 6" EXTENSION WITH LOCKABLE PURPLE TOP MANUFACTURED BY RAINBIRD, PART #PVB/JMB (BOX) AND #PVB/JMBEXT (EXTENSION).  
 2.12.1.2. REMOTE CONTROL VALVE, ISOLATION BALL VALVE ASSEMBLY:  
 2.12.1.2.1. SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX WITH LOCKABLE PURPLE TOP, MANUFACTURED BY DURA PLASTICS, PART #123-DB-2-DS, OR EQUAL.  
 2.12.1.3. QUICK COUPLER VALVE ASSEMBLY:  
 2.12.1.3.1. SHALL BE A 12" ROUND PLASTIC VALVE BOX WITH LOCKABLE PURPLE TOP, MANUFACTURED BY DURA PLASTICS, PART #103-DB-2-DS, OR EQUAL.  
 2.12.1.4. MAINLINE STUB-OUT  
 2.12.1.4.1. SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX AND 6" EXTENSION WITH LOCKABLE PURPLE TOP MANUFACTURED BY DURA PLASTICS PART #123-DB-2-DS.  
 2.12.2. VALVE BOX OR BOX ASSEMBLIES FOR USE WITH POTABLE WATER:  
 2.12.2.1. MASTER CONTROL VALVE/PRESSURE REGULATOR ASSEMBLY:  
 2.12.2.1.1. 1" VALVE ASSEMBLY SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX AND 6" EXTENSION WITH LOCKABLE GREEN TOP, MANUFACTURED BY DURA PLASTICS, PART #121-DB-2-DS, OR EQUAL.  
 2.12.2.1.2. 1-1/2" AND 2" VALVE ASSEMBLY SHALL BE A JUMBO RECTANGULAR PLASTIC VALVE BOX AND 6" EXTENSION WITH LOCKABLE GREEN TOP MANUFACTURED BY RAINBIRD, PART #PVB/JMB (BOX) AND #PVB/JMBEXT (EXTENSION).  
 2.12.2.2. REMOTE CONTROL VALVE, ISOLATION BALL VALVE ASSEMBLY:  
 2.12.2.2.1. SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX WITH LOCKABLE GREEN TOP, MANUFACTURED BY DURA PLASTICS, PART #121-DB-2-DS, OR EQUAL.  
 2.12.2.3. QUICK COUPLER VALVE ASSEMBLY:  
 2.12.2.3.1. SHALL BE A 12" ROUND PLASTIC VALVE BOX WITH LOCKABLE GREEN TOP, MANUFACTURED BY DURA PLASTICS, PART #101-DB-2-DS, OR EQUAL.  
 2.12.2.4. MAINLINE STUB-OUT  
 2.12.2.4.1. SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX AND 6" EXTENSION WITH LOCKABLE GREEN TOP MANUFACTURED BY DURA PLASTICS PART #121-DB-2-DS.  
 2.12.3. PULL OR SPICE BOXES:  
 2.12.3.1. SHALL BE A 12" ROUND PLASTIC VALVE BOX WITH LOCKABLE GREEN TOP, MANUFACTURED BY DURA PLASTICS, PART #101-DB-2-DS, OR EQUAL.  
 FOR MORE THAN 16 CONTROL WIRES OR FOR CONDUITED PULL BOX, SHALL BE A STANDARD RECTANGULAR PLASTIC VALVE BOX WITH LOCKABLE GREEN TOP, MANUFACTURED BY DURA PLASTICS, PART #121-DB-2-DS, OR EQUAL.

**2.13. PIPE AND FITTINGS:**  
 2.13.1. Polyvinyl chloride (PVC) pipe and fittings:  
 2.13.1.1. All on-site recycled water irrigation piping, and on-site potable water piping installed under this design shall be identified in accordance with the district's standard specifications.  
 2.13.1.2. All PVC pipe shall be made from N.S.F. approved, Type I, Grade II PVC compound conforming to ASTM resin specification D1784. Pipe shall meet requirements set forth in federal specification PS-22-70 with an appropriate standard dimension ratio.  
 2.13.1.3. Flush plastic pipe continuously and permanently marked with following information: manufacturer's name or trade mark, size, class and type of pipe, working pressure at 73.4 degrees F, and national sanitation foundation (N.S.F.) rating.  
 2.13.1.4. All pressure supply lines located upstream of remote control valves and quick couplers shall meet the following criteria:  
 2.13.1.4.1. All two (2) inch and larger sized pipe shall be class 315 polyvinyl chloride (PVC) with a standard dimension ratio (SDR) of 13.5. Conforming to ASTM resin specification D1784 and product design specification ASTM D2241.  
 2.13.1.4.2. All one and one-half (1-1/2) inch and smaller sized pipe shall be schedule 40 polyvinyl chloride (PVC) conforming to ASTM resin specification D1784 and product design specification ASTM 1785.  
 2.13.1.5. All non-pressure distribution (lateral) lines located downstream of remote control valves shall meet the following criteria:  
 2.13.1.5.1. For irrigated areas, located within a City of Chula Vista community facilities district, all non-pressure lateral lines shall be schedule 40 polyvinyl chloride (PVC) conforming to ASTM resin specification d1784 and product design specification ASTM D1785  
 2.13.1.5.2. For irrigated areas, located within a home owner's association maintained area, all non-pressure lateral lines shall be Class 200 polyvinyl chloride (PVC) with SDR of 21  
 Conforming to ASTM resin specification d1784 and product design specification ASTM d2241.  
 2.13.1.5.3. Minimum lateral line pipe size is 3/4" - 1/2" diameter pipe is not permitted.  
 2.13.1.6. No close nipples shall be used.  
 2.13.1.7. All on-site potable water piping shall be white PVC.  
 2.13.1.8. All on-site recycled water piping shall be purple colored PVC, continuously stenciled on opposite sides of the pipe with the words "CAUTION-RECYCLED WATER." Pacific plastic cycle slow recycled water pipe or equal.  
 2.13.1.9. Polyvinyl chloride pipe fittings and connections shall be produced from Type I, Grade 1, polyvinyl chloride conforming to ASTM resin specification D1784. Fittings shall be high impact molded fittings, manufactured from virgin compounds as specified for piping tapered socket or milled thread pipe, suitable for either solvent weld or screwed connections. Machine threaded fittings and plastic saddle and flange fittings are not acceptable. Furnish fittings permanently marked with the following information: nominal pipe size, type and schedule of material, and national sanitation foundation (N.S.F.) seal of approval.  
 2.13.1.9.1. Fittings for pressure supply lines located upstream of remote control valves and quick couplers shall meet the following criteria: Fittings shall be schedule 80 socket and/or threaded type conforming product design specification ASTM D2417 and ASTM D2464.  
 2.13.1.9.2. Fittings for non-pressure distribution lines located downstream of remote control valves shall meet the following criteria: Fittings shall be schedule 40 socket and/or threaded type conforming product design specification ASTM D2464.  
 2.13.1.10. Sleeves servicing water lines and electrical conduit shall be schedule 40 polyvinyl chloride (PVC) conforming to ASTM resin specification D1784 and product design specification ASTM D1785.  
 2.13.1.11. Electrical conduit for low voltage control wire to be PVC Sch 40 grey.  
 2.13.1.12. Solvent cements shall comply with ASTM D2694. Solvent cement shall be made per recommended procedures for joining PVC plastic pipe and fittings with PVC solvent cement by the pipe and fitting manufacturer and procedures outlined in the appendix of ASTM D2564.  
 2.13.1.13. Thread lubricant shall be Teflon ribbon-type, or approved equal, suitable for threaded installations as per manufacturer's recommendations.

**2.13.2. METALLIC PIPE AND FITTINGS**  
 2.13.2.1. Copper pipe shall be Type K hard copper. For plumbing installations between the water meter and the backflow prevention device as required by the district and illustrated by the water agency standards detail drawings.  
 2.13.2.2. Fittings for metal pipe shall meet ANSI B 16.22 wrought copper or cast brass, recessed solder joint type fittings.  
 2.13.2.3. Brass pipe shall be IPS standard weight 125 pounds, 85% red brass.  
 2.13.2.4. Brass fittings shall be standard 125 pound class 85% red brass fittings and connections.  
 2.13.2.5. Galvanized steel pipe shall be schedule 40 ASTM, 120-gal. threaded, coupled and hot-dip galvanized.  
 2.13.2.6. Galvanized steel fittings shall be heavy pattern, banded, and galvanized malleable iron.

**2.14. CONCRETE THRUST BLOCK AND SUPPORTS:**  
 2.14.1. All concrete work shall be 2,000 PSI minimum compressive strength at twenty-eight (28) days, 5 sack mix, top finished on exposed surfaces.  
**2.15. IDENTIFICATION TAPES:**  
 2.15.1. Warning/identification Tape materials shall conform to W.A.S Part 2.08 of Section 15000.  
 2.15.2. Marker tape shall be 5 mil polyethylene, 3" wide with a 20 gauge solid aluminum foil core as manufactured by T. Christy Enterprises at (800) 258-4583. Further marking tape shall meet the following criteria:  
 2.15.2.1. For constant pressure lines of systems connected to a potable water source, tape shall be blue in color with the words, "CAUTION WATER LINE BELOW" in 1" high black letters. Model number TA-DT -03-BW or equal.  
 2.15.2.2. For constant pressure lines of systems connected to a recycled water source, tape shall be purple in color with the words, "CAUTION RECYCLED/RECLAIMED WATER LINE BELOW" in 1" high black letters. Model number TA-DT-03-PRW or equal.  
 2.15.2.3. For control wire not installed with a constant pressure line, tape shall be red in color with the words, "CAUTION ELECTRICAL LINE BELOW" in 1" high black letters. Model number TA-DT -03-RE or equal.

**2.16. WARNING AND VALVE/STATION IDENTIFICATION TAGS:**  
 2.16.1. Recycled water identification tags shall be weatherproof plastic 3" x 4", purple in color with words in bold letters reading, "CAUTION-RECYCLED WATER-DO NOT DRINK", imprinted on one side and "PELIGRO-AGUA IMPURA - ICTOMARF", printed on the other side.  
 2.16.2. Warning tags shall be model # ID -MAX-P-R2006 manufactured by T. Christy Enterprises, or equal.  
 2.16.3. Valve/station identification tags for recycled water systems shall be weatherproof plastic 3" x 4", purple in color with controller and station number printed in 1-1/8" high black letters. Tags shall be model # ID -STD-P1 as manufactured by T. Christy Enterprises or equal.  
 2.16.4. Valve/station identification tags for potable water systems shall be weatherproof plastic 3" x 4", yellow in color with words in black letters reading, "potable water used for irrigation - do not drink", imprinted on one side. On the blank side the contractor shall provide the controller and station number in 1" high, black letters/numbers using permanent weatherproof ink. Tags shall be model # ID -MAX-Y2-PW06 as manufactured by T. Christy Enterprises, or equal.  
 2.16.5. Weatherproof black ink marker to be model # ID-TAGPEN as manufactured by T. Christy Enterprises, or equal.

**2.17. SPRINKLERS:**  
 2.17.1. Sprinkler heads shall be of the types and sizes with diameter (or radius) of throw, pressure, nozzle discharge and/or other designations indicated on the drawings.  
 2.17.2. All sprinkler heads of the same type and size shall be of the same manufacturer. Heads shall be equipped with all options and equipment per the irrigation legend.  
 2.17.3. All sprinkler heads shall be equipped with a manufacturer installed internal check valve, when available.  
 2.17.4. All sprinkler heads used on recycled water systems shall be equipped with manufacturer's purple covers.  
**2.18. DRIP EQUIPMENT (See Irrigation Legend, Notes and Detail Drawings):**  
 2.18.1. Pressure Regulators:  
 2.18.1.1. Pressure regulating valve for drip systems shall be a preset device for the design flows.  
 2.18.1.2. Pressure regulator shall be constructed of durable high-impact, engineering-grade thermoplastics and high quality stainless steel compression spring and internal hardware.  
 2.18.1.3. Pressure regulating valve shall be as specified in the irrigation legend and sized according to notes in the detail drawings.  
 A. Pressure regulating valve may be a separate component of the drip control valve assembly as shown in the irrigation equipment legend.  
 B. Pressure regulating valve may be an integrated component of the drip control valve kit as distributed by the manufacturer.  
 2.18.2. Strainer / Filter Units:  
 2.18.2.1. Screen filter for drip systems shall be a basket type body allowing for top access. Screen filter shall be manufactured of high-impact, engineering-grade thermoplastics with polyester mesh screen element welded to a color-coded polypropylene frame. Color coding indicating mesh size (all filters to have white elements indicating 200 mesh).  
 2.18.2.2. Screen filter inlet and outlet to be at the bottom of the body allowing continuous progression of installation from valve to sub-main at equal elevation.  
 2.18.2.3. Screen filter to have a pressure differential indicator on the top cover.  
 2.18.2.4. Screen filter shall be sized according to notes in the detail drawings and legend.  
 2.18.2.5. Screen filter to be model qtkh-075 or qtkh-100 and be an integral component of the drip control valve assembly.  
 2.18.3. Drip Lateral Blow-Out:  
 2.18.3.1. Drip lateral blow-out shall be a manual device fabricated as detailed. Manual flushing at regular intervals will allow high flow velocity for sediment removal.  
 2.18.4. Drip lateral air/vacuum relief valve:

2.18.4.1. Drip system air/vacuum relief valve shall be a true vacuum relief application.  
 2.18.4.2. Drip lateral air/vacuum relief valve to be model TLAVRV valve kit as manufactured and distributed by Netafim.  
 2.18.5. Drip Tubing (later):  
 2.18.5.1. Drip tubing shall be constructed of premium grade, linear, low density, polyethylene resin with 2% carbon black added or U.V. protection.  
 2.18.5.2. Drip tubing shall be with integral wiring compensation emitters, pre-inserted within the tubing interior during the extrusion process.  
 2.18.5.3. Pressure compensating emitters shall operate at a wide range of pressure 15 to 60 psi while emitting water at +/- 5% of the design discharge.  
 2.18.6. Drip fittings: barbed insert fittings for the joining of drip tubing shall be to the same manufacturer and as recommended by the tubing manufacturer. See the detail drawings.  
 2.18.6.1. Drip fitting to tubing reinforcement: all joining of drip tubing installed upon a Mechanically Stabilized Earth (MSE) wall shall be reinforced with stainless steel clamps. Clamps shall be manufactured by "Oelker" and shall be one "ear" type. Nominal size that is recommended for use with Netafim Bioline is 13/16", Part No. 2105S.

**PART 3 - EXECUTION**  
 Part 3 shall conform to Part 3 Section 15152 of the Water Agencies' Standards, latest edition, where applicable, except as hereinafter modified, revised and/or changed:

**3.1. GENERAL:**  
 3.1.1. Plans Are Diagrammatic. All piping, valve boxes, and associated equipment shall be located in landscape areas. No irrigation equipment shall be located in hardscape. Group valve boxes together and locate in shrub areas, whenever possible.  
 3.1.2. Unless Otherwise Indicated: Contractor shall comply with requirements of uniform plumbing code.  
 3.1.3. Plant Material Installed Prior To Irrigation: All 24" box size and larger shall be planted prior to the installation of irrigation piping.  
 3.1.4. Water Pressure Verification: At each point of connection prior to installing work. Notify the owner's authorized representative if pressure is less than indicated on drawings. Contractor is responsible for all field revisions if owner's authorized representative is not informed of discrepancies.  
 3.1.5. Point Of Connection: Connect to existing street service line at location indicated.

**3.1.6. SYSTEM DESIGN:**  
 3.1.6.1. All scaled dimensions are approximate. The contractor shall check and verify all dimensions on the site prior to proceeding with work under this contract.  
 3.1.6.2. The contractor shall locate and mark all existing utilities such as power, telephone, domestic water, water, and tile drains. Extreme care shall be taken by the contractor when excavating or working in these areas and coordination and cooperation between the owner's representative and the contractor is required as the work progresses to the area. Contractor shall give 24 hours notice to representative as work progresses to underground utility areas. Contractor shall be responsible for damage to any utilities.  
 3.1.6.3. Should utilities not located or marked be found during excavation, the contractor shall promptly notify the owner and shall discontinue work in the area, except necessary emergency work, to repair or prevent damage until instructions are given to the contractor by the owner's representative.  
 3.1.6.4. Failure to notify the owner of discovery of such utilities or damage thereto will result in the contractor being liable for any and all damage caused to the utilities as a result of his actions.  
 3.1.6.5. The contractor shall, before starting work on the sprinkler system, carefully note all finish grades in order to satisfy himself that he may proceed with the work, and to restore finish grades to original contours before completion.  
 3.1.6.6. The installation of all sprinkler materials, including pipe, shall be coordinated with the landscape drawings to avoid interfering with the trees, shrubs, or other planting.  
 3.1.6.7. Lay out sprinkler heads and make any minor adjustments required due to difference between site and drawings. Any such deviations in layout shall be within the intent of the original drawings, and without additional cost to the owner. When directed by the owner, the layout shall be approved before installation.  
 3.1.6.8. Do not willfully install the sprinkler system as indicated on the drawings when it is obvious in the field that previously unknown obstructions or site differences exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the landscape architect.  
 3.1.6.9. The contractor shall connect to the water source as indicated on the drawings. The contractor shall verify static pressure as stated on the plans prior to beginning work. If static pressure at the point of connection differs from that shown on the plans, the contractor will promptly notify landscape architect before starting work.  
 3.1.6.10. The routing of the pressure supply lines as indicated on the drawings is diagrammatic. Locate all pressure supply lines in planting areas. Cross perpendicular under pavement in a sleeve as described in these specifications.

**3.2. BACKFLOW PREVENTER:**  
 3.2.1. Backflow preventer assembly shall be installed in accordance with manufacturer's specifications, located and as directed on drawings adjacent to the point of connection, and shall conform to all applicable health code and ordinance requirements.  
 3.2.2. Backflow preventer assemblies shall be located in shrub areas where possible. Exact location and positioning shall be verified on the site and shall be approved by the district.  
 3.2.3. Backflow preventer assemblies for potable water irrigation systems shall be painted flat black.  
 3.2.4. Backflow preventer assemblies for recycled water irrigation systems shall be painted purple.  
**3.3. PRESSURE REGULATION DEVICES:**  
 3.3.1. Pressure regulation devices shall be installed as directed by the plans and detailed drawings.



**3.4. AUTOMATIC CONTROL SYSTEM:**  
 3.4.1. Automatic controller shall be installed as shown and as directed. Controller shall be tested with complete electrical connections. The contractor shall be responsible for power to the controller for operation and testing purposes.  
 3.4.2. Connections to control wiring shall be made within automatic controller enclosure. All wire shall follow the pressure main insofar as possible.  
 3.4.3. Electrical wiring for 120 VAC power shall be within a rigid PVC plastic conduit from controller to electrical outlet. The electrical contractor shall be responsible for installing all wiring to the sub-panels, clocks, or elsewhere as required, in order to complete this installation. A disconnect switch shall be included.  
 3.4.4. Controllers shall have a master switch. It shall be possible to operate each valve manually independent of the clock or any other valve.  
 3.4.5. Contractor shall supply and install a manufacturer approved battery in controller to prevent loss of program.  
 3.4.6. Control system shall be programmed to operate one system at a time.  
 3.4.7. System enclosures shall be equipped with an automatic rain shut-off device.  
 3.4.8. Prior to substantial completion of project installation, SiteOne GreenTech and/or the controller manufacturer will test the controller, including a test from a remote location, to ensure that it is in full working order and issue the City of Chula Vista with a certificate stating that this test has been successfully completed. The test shall be repeated at the end of the developer's one year maintenance period.  
 3.4.8.1. For technical assistance during installation contact:  
 SiteOne GreenTech (800) 427-0779.  
 Controller manufacturer - Rainmaster (800) 777-4477.  
 3.4.8.2. For certification and project turn-over contact:  
 SiteOne GreenTech (800) 427-0779.

**3.5. AUTOMATIC CONTROL (STATION) WIRE AND COMMUNICATION CABLE - Low Voltage:**  
 3.5.1. Install control wire within PVC Schedule 40 electrical conduit from the controller to all remote control valves. Control wire/conduit shall be routed with the irrigation mainline piping in common trenches wherever possible. Provide a minimum of 4" from mainline pipe or fittings except at terminal points.  
 3.5.2. When not routed with mainline, install control wire/conduit at least 18" below finish grade.  
 3.5.3. Wire conduit to run through sleeves shown on the drawings. Pull boxes shown at crossings of vehicular paving area to be used as hand-holds and splice locations. Control wire/conduit sleeve to be separate from water line sleeves and sleeves for 120V electrical service line.  
 3.5.4. End of spare wires shall be encased in a waterproof connector.  
 3.5.4.1. All splices, when approved for use, shall be with DBY connectors as manufactured by The 3M Company.  
 3.5.4.2. Install communication cable from controller/satellite to flow sensor within 1" PVC Sch. 40 electrical conduit as noted and detailed and to the satisfaction of the city landscape inspector.  
 3.5.4.3. Splices for flow sensor cable are permitted only at the flow sensor within the valve box. Water proof connectors shall DBY splice kit as manufactured by The 3M Company.  
 3.5.4.4. No splices shall be allowed on wire runs less than 500 ft. Wire splices, when approved for use, shall be encased in pre-approved waterproof connectors and installed within pull box as detailed.

**3.6. WATER AGENCY STANDARDS (WAS) SECTION 15152 SHALL TAKE PRECEDENCE IN THE EVENT OF CONFLICT.**

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

**R/W IDENTIFICATION BY COLOR CODING:**  
 SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. LEGALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

<p>OTAY WATER DISTRICT          PROJECT NO. <u>D0944-060189</u>          PZ <u>624, 711</u> RPZ <u>680</u></p>		<p>IT'S THE LAW!          DIAL BEFORE YOU DIG!            CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING          1-800-227-2600          UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA</p>		<p>"AS-BUILT"          SIGNED: _____ DATE: _____          PRINT NAME: _____ R.L.A. # _____          DISCIPLINE: LANDSCAPE ARCHITECT REGIST. EXP. _____</p>		<p>  <b>Tributary LA, Inc.</b>          2725 Jefferson Street, Suite 14          Carlsbad, CA 92008          760.434.9300 office</p>	
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**3.6. FLOW, RAIN, MOISTURE SENSING DEVICE:**  
 3.6.1. ALL SENSING DEVICES SHALL BE LOCATED AND/OR ARRANGED APPROXIMATELY AS INDICATED ON PLANS AND SUBJECT TO FIELD APPROVAL BY THE LANDSCAPE ARCHITECT.  
 3.6.1.1. IN GENERAL LOCATIONS SHALL BE AS FOLLOWS:  
 FLOW SENSING - LOCATED DOWNSTREAM OF MASTER CONTROL VALVE ON COMMON MAINLINE SECTION.  
 RAIN SENSING - LOCATED TO PROVIDE A CLEAR VIEW OF THE SKY AND WHERE IT WILL NOT BE AFFECTED BY SPRAY FROM AN IRRIGATION SYSTEM.  
 MOISTURE SENSING - LOCATED IN REPRESENTATIVE HYDROZONE WITHIN ROOTED SOIL PROFILE.  
 3.6.2. ALL SENSING DEVICES SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS, INSTRUCTIONS AND SPECIFICATIONS.  
 3.6.3. EACH CONTROLLER ASSEMBLY SHALL BE EQUIPPED WITH ITS OWN RAIN SENSING DEVICE, UNLESS SYSTEM IS OPERATED BY A CENTRAL CONTROL SYSTEM.  
 3.6.3. EACH CONTROLLER ASSEMBLY SHALL BE EQUIPPED WITH ITS OWN FLOW SENSING DEVICE.

**3.7. MASTER CONTROL / REMOTE CONTROL VALVE:**  
 3.7.1. LOCATE AND INSTALL IN SHRUB AREAS, AT APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS.  
 3.7.2. INSTALLATION SHALL INCLUDE A PVC OR BRASS UNION ON THE DOWNSTREAM SIDE OF THE VALVE. ALL CONNECTIONS TO VALVES SHALL BE MADE HORIZONTALLY.  
 3.7.3. LOCATE MASTER CONTROL VALVE ON COMMON MAINLINE SECTION DOWNSTREAM OF THE BACKFLOW PREVENTION EQUIPMENT AND UPSTREAM OF THE FLOW SENSING DEVICE.  
 3.7.4. WHERE POSSIBLE, VALVES SHALL BE GROUPED TOGETHER IN A MANFOLD DOWNSTREAM OF A MANFOLD ISOLATION VALVE AS DETAILED AND SHOWN ON THE PLANS.

**3.8. QUICK COUPLING VALVES:**  
 3.8.1. WHERE POSSIBLE, INSTALL QUICK COUPLING VALVES IN SHRUB AREAS, AT APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS.  
 3.8.2. QUICK COUPLING VALVES SHALL BE INSTALLED WITHIN A VALVE BOX AS DETAILED AND SPECIFIED IN PART 2. VALVE AND BOX SHALL BE LOCATED TO ALLOW APPROXIMATELY 12 INCH CLEARANCE FROM VALVE BOX TO PAVING, WALKS, HEADERS OR CURBS, AND AS SHOWN ON PLANS AND AS DIRECTED.  
 3.8.3. QUICK COUPLING VALVES ON RECYCLED WATER SYSTEMS MUST BE SUCH THAT ACCESS AND OPERATION CAN BE ACCOMPLISHED ONLY WITH A SPECIAL ACME THREADED KEY.

**3.9. BALL VALVES:**  
 3.9.1. WHERE POSSIBLE, INSTALL BALL VALVES IN SHRUB AREAS, AT APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS.  
 3.9.2. BALL VALVES SHALL BE INSTALLED TO ISOLATE INDIVIDUAL VALVES OR VALVE MANIFOLDS AND/OR SECTIONS OF THE IRRIGATION MAINLINE.  
 3.9.3. BALL VALVES SHALL BE INSTALLED TO SECTION THE IRRIGATION MAINLINE INTO MANAGEABLE AREAS, TO LIMIT DRAINING OF MAINLINE DURING REPAIRS.

**3.10. NON-PRESSURE LATERAL LINE ANTI DRAIN VALVES:**  
 3.10.1. PROVIDE MANUFACTURER'S INSTALLED ANTI-DRAIN VALVES IN ALL POP-UP SPRINKLER HEADS.  
 3.10.2. WHERE MANUFACTURER'S INSTALLED ANTI-DRAIN VALVES ARE NOT AVAILABLE INSTALL ANTI-DRAIN VALVES ON POP-UP SPRINKLERS SWING JOINT ASSEMBLY OR BELOW THE HEAD FOR SHRUB HEADS ON RISERS.  
 3.10.3. ADDITIONAL IN-LINE ANTI-DRAIN VALVES SHALL BE INSTALLED WHEREVER NECESSARY TO PREVENT LOW HEAD DRAINAGE AFTER THE SYSTEM IS SHUT OFF.

**3.11. MANUAL AND ANTI-SIPHON VALVES:**  
 3.11.1. MANUAL AND ANTI-SIPHON CONTROL VALVES SHALL BE INSTALLED AS DIRECTED BY THE PLANS AND DETAIL DRAWINGS.  
 3.11.2. MANUAL AND ANTI-SIPHON CONTROL VALVES SHALL BE LOCATED IN INCONSPICUOUS LOCATION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

**3.12. VALVE AND PULL BOXES:**  
 3.12.1. INSTALL NO MORE THAN ONE VALVE PER BOX.  
 3.12.2. VALVE BOXES SHALL BE INSTALLED ADJACENT TO PAVED SURFACES WITH CLEARANCE AS DETAILED, WHERE POSSIBLE.  
 3.12.3. VALVE BOXES SHALL BE SET AT HEIGHTS AS FOLLOWS:  
 IN SHRUB AREAS - TOP OF COVER SET ONE INCH ABOVE FINISH GRADE.  
 IN TURF AREAS - TOP OF COVER SET ONE-HALF INCH ABOVE OR EVEN WITH FINISH GRADE.  
 IN ALL CONDITIONS - TOP OF COVER SET NO HIGHER THAN ADJACENT PAVING SURFACE.  
 3.12.4. ON THE INSIDE SURFACE OF EACH REMOTE CONTROL VALVE BOX, PULL BOX AND QUICK COUPLING BOX, WRITE THE VALVE DESIGNATION NUMBER IN PERMANENT BLACK MARKER OR PAINT. DO NOT WRITE ON VALVE BOX LID.  
 3.12.5. ALL VALVE BOX LIDS SHALL BE MARKED TO IDENTIFY INCLUDED EQUIPMENT AS SHOWN IN THE VALVE BOX I.D. DETAIL DRAWING.  
 3.12.6. IN ADDITION TO THE "E" IDENTIFICATION FOR A PULL BOX, WHERE PULL BOXES ARE LOCATED AT STREET CROSSINGS, THE CONTRACTOR SHALL STAMP OR ETCH THE LETTER "E" INTO THE IMPROVEMENT DIRECTLY OVER THE SLEEVE.

**3.13. INSTALLATION OF PIPE:**  
 3.13.1. INSTALLATION OF POLYVINYL CHLORIDE PIPE:  
 3.13.1.1. BECAUSE OF THE FRAGILE NATURE OF PLASTIC PIPE AND FITTINGS, EXERCISE CAUTION IN HANDLING, LOADING AND STORING, TO AVOID DAMAGE.  
 3.13.1.2. THE PIPE AND FITTINGS SHALL BE STORED UNDER COVER UNTIL USED AND SHALL BE TRANSPORTED IN A VEHICLE WITH A BED LONG ENOUGH TO ALLOW THE LENGTH OF PIPE TO LAY FLAT SO AS NOT TO BE SUBJECTED TO UNDUE BENDING OR CONCENTRATED EXTERNAL LOAD AT ANY POINT.  
 3.13.1.3. ANY PIPE THAT HAS BEEN DENTED OR DAMAGED SHALL BE DISCARDED UNLESS SUCH DENT OR DAMAGED SECTION IS CUT OUT AND PIPE REJOINED WITH A COUPLING.  
 3.13.1.4. TRENCH DEPTH SHALL BE AS SPECIFIED ABOVE FROM THE FINISH GRADE TO THE TOP OF THE PIPE. THE BOTTOM OF THE TRENCH SHALL BE FREE OF ROCKS, CLODS, AND OTHER SHARP-EDGED OBJECTS.  
 3.13.1.5. PIPE ENDS AND FITTINGS SHALL BE WIPED WITH "MEK" PRIMER, OR APPROVED EQUAL, BEFORE WELDING SOLVENT IS APPLIED. WELDED JOINTS SHALL BE GIVEN A MINIMUM OF 15 MINUTES TO SET BEFORE MOVING OR HANDLING. ALL FIELD CUTS SHALL BE BEVELED TO REMOVE BURRS AND EXCESS MATERIAL BEFORE FITTING AND GLUING TOGETHER.  
 3.13.1.6. PIPE SHALL BE SNAKED FROM SIDE-TO-SIDE OF TRENCH BOTTOM TO ALLOW FOR EXPANSION AND CONTRACTION.  
 3.13.1.7. CENTER LOAD PIPE WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING AND SLIPPING UNDER PRESSURE. LEAVE JOINTS EXPOSED FOR SITE OBSERVATION DURING TESTING.  
 3.13.1.8. NO WATER SHALL BE PERMITTED IN THE PIPE UNTIL SITE OBSERVATION HAS BEEN COMPLETED AND A PERIOD OF AT LEAST 24 HOURS HAS ELAPSED FOR SOLVENT WELD SETTING AND CURING.  
 3.13.1.9. PLASTIC TO METAL JOINTS SHALL BE MADE WITH PLASTIC MALE ADAPTERS, METAL NIPPLE HAND TIGHTENED, PLUS ONE TURN WITH A STRAP WRENCH.  
 3.13.1.10. PLASTIC TO PLASTIC JOINTS: SOLVENT-WELD, USING SOLVENT RECOMMENDED BY PIPE MANUFACTURER ONLY.  
 3.13.1.11. SOLVENT-WELD JOINTS: ASSEMBLE PER MANUFACTURER'S RECOMMENDATIONS.  
 3.13.1.12. PROVIDE MINIMUM OF 6" OF CLEARANCE BETWEEN PIPES SHARING THE SAME TRENCH.  
 3.13.1.13. ALL SLEEVES FOR INSTALLATION OF PIPE, WIRE OR WIRE CONDUIT UNDER PAVING SHALL RUN CONTINUOUSLY UNDER THE PAVED AREA AND EXTEND A MINIMUM OF 12 INCHES PAST EDGE OF HARDSCAPE. SEE DETAIL DRAWINGS.

**3.13.2. INSTALLATION OF METALLIC PIPE:**  
 3.13.2.1. CUT BY POWER HACKSAW, CIRCULAR CUTTING MACHINE USING AN ABRASIVE WHEEL, OR HAND HACKSAW. CUT NO PIPING WITH METALLIC WHEEL CUTTER OF ANY DESCRIPTION. REAM AND REMOVE ROUGH EDGES OF BURRS SO SMOOTH AND UNOBSTRUCTED FLOW IS OBTAINED.  
 3.13.2.2. CAREFULLY AND SMOOTHLY PLACE THREAD LUBRICANT ON MALE THREAD ONLY. TIGHTEN SCREWED JOINTS WITH TONGS OR WRENCHES. CAULKING IS NOT PERMITTED.  
 3.13.2.3. USE DIELECTRIC FITTINGS AT CONNECTION WHERE PIPES OF DISSIMILAR METAL ARE JOINED.

**3.13.3. EXCAVATION OF TRENCHES:**  
 3.13.3.1. EXCAVATE TRENCHES, PREPARE SUB GRADE, AND BACKFILL TO LINE AND GRADE WITH SUFFICIENT ROOM FOR PIPE FITTINGS, TESTING AND INSPECTING OPERATIONS. DO NOT BACKFILL UNTIL THE PIPE SYSTEM HAS BEEN SUBJECTED TO A HYDROSTATIC TEST AS SPECIFIED.

3.13.3.2. TRENCH DEPTH, MEASURED FROM FINISH GRADE TO TOP OF PIPE, FOR IRRIGATION PIPE LINES SHALL BE AS FOLLOWS:  
 3.13.3.3. RECYCLED AND POTABLE PRESSURE SUPPLY LINE:  
 2-1/2" I.D. PIPE AND SMALLER 18" MIN.  
 3" AND LARGER 24" MIN.  
 3.13.3.4. RECYCLED NON-PRESSURE LINE:  
 2-1/2" I.D. PIPE AND SMALLER 15" MIN.  
 3" AND LARGER 24" MIN.  
 3.13.3.5. POTABLE NON-PRESSURE LINE:  
 2-1/2" I.D. PIPE AND SMALLER 12" MIN.  
 3" AND LARGER 18" MIN.  
 3.13.3.6. RECYCLED AND POTABLE PRESSURE SUPPLY LINE IN SLEEVE:  
 UNDER VEHICULAR PAVING 36" MIN.  
 UNDER PEDESTRIAN PAVING 18" MIN.  
 WALLS OR DRAINAGE FEATURES 18" MIN.  
 3.13.3.7. RECYCLED AND POTABLE NON-PRESSURE LINE IN SLEEVE:  
 UNDER VEHICULAR PAVING 30" MIN.  
 UNDER PEDESTRIAN PAVING 18" MIN.  
 WALLS OR DRAINAGE FEATURES 18" MIN.  
 3.13.3.8. ELECTRICAL AND COMMUNICATION CABLE IN SLEEVE:  
 ALL CASES 3" MIN.  
 3.13.4. SUBSOIL SHALL BE FREE OF ALL ROCKS OVER ONE (1) INCH DIAMETER, DEBRIS, AND LITTER PRIOR TO USE AS BACKFILL.  
 3.13.5. REPAIR ANY LEAKS AND REPLACE ALL DEFECTIVE PIPE OR FITTINGS UNTIL LINES MEET TEST REQUIREMENTS. DO NOT COVER ANY LINES UNTIL THEY HAVE BEEN CHECKED AND APPROVED FOR TIGHTNESS, QUALITY OF WORKSMANSHIP AND MATERIALS.  
 3.13.6. BACKFILL TRENCHES, AFTER APPROVAL OF PIPING, WITH SUITABLE AND APPROVED MATERIAL, TAMP SOIL AROUND PIPE AND THOROUGHLY COMPACT ALL TRENCH FILLS UNTIL 90% COMPACTION HAS BEEN ACHIEVED.  
 3.13.7. BACKFILL MATERIAL SHALL BE AN APPROVED SOIL, FREE FROM ROCKS AND CLODS. PROVIDE BACKFILL UNDER, AROUND AND ABOVE TOP OF PIPE FOR PVC PLASTIC PIPE AND BRASS PIPING.

**3.14. CONCRETE THRUST BLOBS AND SUPPORTS:**  
 3.14.1. THRUST BLOBS AND FOOTINGS SHALL BE FORMED AND PLACED ON NINETY-PERCENT (90%) MINIMUM COMPACTED OR UNDISTURBED SUB GRADE. CONSTRUCT TO SHAPES SPECIFIED AND PARALLEL TO WALKWAYS. TOOL FINISH EXPOSED SURFACE.

**3.15. WARNING/IDENTIFICATION TAPE:**  
 3.15.1. WARNING/IDENTIFICATION TAPE SHALL BE INSTALLED ON ALL ON-SITE POTABLE AND RECYCLED LINES AS CALLED FOR IN SECTION 15000

**3.16. RECYCLED WATER WARNING AND VALVE/STATION IDENTIFICATION TAG:**  
 3.16.1. PROVIDE AND INSTALL AS DIRECTED BY THE PLANS AND DETAIL DRAWINGS AND AS REQUIRED BY THE DISTRICT.  
 3.16.2. RECYCLED WATER WARNING TAG SHALL BE INSTALLED AS DIRECTED BY THE PLANS AND DETAIL DRAWINGS AND AS REQUIRED BY THE DISTRICT.  
 3.16.3. VALVE/STATION IDENTIFICATION TAG SHALL BE INSTALLED AS DIRECTED BY THE PLANS AND DETAIL DRAWINGS.

**3.17. SPRINKLER HEADS:**  
 3.17.1. ALL SPRINKLER HEADS SHALL BE INSTALLED AS PER DETAILS SHOWN.  
 3.17.2. SHRUB HEADS ON RISERS ARE NOT PERMITTED ADJACENT TO PAVING SURFACES, HEADERS, AT TOP OF RETAINING WALLS, IN FRONT OF PROJECT SIGNAGE OR IN TURF AREAS.  
 3.17.3. TOP OF POP-UP SPRINKLER HEADS SHALL BE INSTALLED FLUSH WITH ADJACENT PAVING SURFACE.  
 3.17.4. POP-UP SPRINKLER HEADS SHALL BE INSTALLED APPROXIMATELY FOUR INCHES AWAY FROM ANY PAVING SURFACE. IN SHRUB AREAS, WHERE POP-UP SPRINKLER HEADS ARE LOCATED AT THE HEAD ON A PARKING STALL, POP-UP SPRINKLERS SHALL BE LOCATED EIGHTEEN INCHES FROM BACKFILL CURB.  
 3.17.5. SPRINKLER HEADS SHALL BE LOCATED OR ADJUSTED TO MINIMIZE OR ELIMINATE OVER-SPRAYING ON SIDEWALKS, STREETS, WINDOWS, WALLS AND ALL OTHER NON-DESIGNATED USE AREAS.  
 3.17.6. SPRINKLER HEADS WITH THE SAME CIRCUIT SHALL BE OF THE SAME MANUFACTURER AND SERIES AND HAVE A UNIFORM PRECIPITATION RATE.  
 3.17.7. SPACING OF SPRINKLER HEADS SHALL NOT EXCEED MAXIMUM DISTANCES AS INDICATED IN THE IRRIGATION LEGEND.  
 3.17.8. ADJUST NOZZLES ARCS AND PRESSURE COMPENSATING DEVICES TO SUIT ANY PARTICULAR CONDITIONS OF THE AREA. THIS SHALL BE DONE AFTER THE SYSTEM HAS BEEN THOROUGHLY TESTED, IMMEDIATELY AFTER WRITTEN NOTIFICATION BY THE LANDSCAPE ARCHITECT TO DO SO.

**3.18. DRIP IRRIGATION EQUIPMENT: SEE DETAIL DRAWINGS.**  
 3.18.1. PRESSURE REGULATORS  
 3.18.1.1. PRESSURE REGULATING SHALL BE AN INTEGRAL PART OF THE DRIP IRRIGATION CONTROL VALVE ASSEMBLY INSTALLED WITHIN A VALVE BOX AS DETAILED.  
 3.18.2. STRAINER/FILTER UNITS  
 3.18.2.1. SCREEN FILTER SHALL BE AN INTEGRAL PART OF THE DRIP IRRIGATION CONTROL VALVE ASSEMBLY INSTALLED WITHIN A VALVE BOX AS DETAILED.  
 3.18.3. DRIP LATERAL BLOW-OUT  
 3.18.3.1. DRIP LATERAL BLOW-OUT SHALL BE CONTRACTOR FABRICATED AS DETAILED.  
 3.18.3.2. DRIP LATERAL BLOW-OUT SHALL BE INSTALLED AT HYDRAULIC END POINTS (SINGLE DRIP LINES OR EXHAUST MANIFOLDS) WITHIN VALVE BOX AS DETAILED.  
 3.18.4. DRIP LATERAL AIR/VACUUM RELIEF VALVE  
 3.18.4.1. DRIP LATERAL AIR/VACUUM RELIEF VALVE SHALL BE INSTALLED AT LOCAL HIGH POINTS TO ALLOW AIR TO ENTER THE LATERALS UPON SYSTEM SHUT-DOWN TO ELIMINATE A VACUUM CONDITION THAT MAY DRAW CONTAMINATION INTO THE SYSTEM AS SHOWN ON THE DRAWINGS THESE VALVES ARE PLACED ON, AT OR, NEAR MANIFOLDS SO THAT ALL LATERALS CAN "SEE" THE VACUUM RELIEF.  
 3.18.4.2. DRIP LATERAL AIR/VACUUM RELIEF VALVE SHALL BE INSTALLED WITHIN VALVE BOX AS DETAILED.  
 3.18.5. DRIP TUBING (LATERAL)  
 3.18.5.1. DRIP TUBING FOR SUBSURFACE IRRIGATION OF DENSE SHRUB AND/OR GROUND COVER PLANTINGS SHALL BE INSTALLED IN A GRID NETWORK WITH EMISSION POINT AND LATERAL SPACING AS LISTED IN THE IRRIGATION LEGEND, AS ILLUSTRATED BY THE PLANS AND DETAIL DRAWINGS AND AS NOTED.  
 3.18.5.2. INSTALLATION METHOD  
 A. DRIP TUBING CAN BE PLACED AND SECURED TO PREPARED AND FINISHED GRADE MINUS 4.5" THEN COVERED TO SPECIFIED DEPTH WITH APPROVED TOP SOIL.  
 B. DRIP TUBING CAN BE SECURED TO BOTTOM OF SHALLOW "SLIT" TRENCHES THEN COVERED TO SPECIFIED DEPTH WITH APPROVED TOP SOIL.  
 C. INSTALLATION OF TUBING IS CRITICAL AND AT ALL TIMES DURING INSTALLATION MUST BE PROTECTED TO ABSOLUTELY PREVENT INTRODUCTION OF DEBRIS.  
 D. AFTER DRIP TUBING INSTALLATION AND BEFORE ATTACHMENT TO INLET AND/OR EXHAUST MANIFOLDS OR TO AIR VACUUM RELIEF VALVES TUBING TO BE PROTECTED BY CONTRACTOR CHOSEN METHOD OF KINKING OR PLUGGING OF EXPOSED ENDS.  
 3.18.6. DISTRIBUTION TUBING: DISTRIBUTION TUBING SHALL BE USED TO LOCATE EMISSION POINTS AS DETAILED. TUBING SHALL BE PROVIDED WITH 4" OF SOIL COVER AS NOTED.  
 3.18.7. DRIP FITTINGS: ALL DRIP FITTING FOR THE JOINING OF DRIP TUBING SHALL BE INSTALLED SO THAT TUBING BUTTS TO THE STOP AS INSTRUCTED BY THE MANUFACTURER.  
 3.18.7.1. DRIP FITTINGS: FOR ALL TUBING INSTALLED UPON AN INSE WALL, INSERT FITTINGS WILL BE REINFORCED WITH STAINLESS STEEL CLAMPS. STAINLESS STEEL CLAMPS ARE TO BE SLIPPED OVER THE TUBING BEFORE BEING FITTED TO BARBED INSERT FITTINGS. PLACE THE CLAMP BETWEEN THE FIRST AND SECOND RIDGE OF THE BARBED INSERT FITTINGS. CRIMP THE "EAR" OF THE CLAMP TIGHTLY WITH AN OETEKER PINCER TOOL. CRIMP THE CLAMP TWICE TO ENSURE PROPER SEATING.  
 3.18.8. DRIP STAKES OR STAPLES: DRIP STAKES OR STAPLES FOR SECURING DRIP TUBING SHALL BE INSTALLED SO THAT NO TUBING

BECOMES KINKED AS INSTRUCTED BY THE MANUFACTURER.

**3.18. FLUSHING SYSTEMS:**  
 3.18.1. AFTER PIPING AND RISERS ARE IN PLACE, BUT PRIOR TO THE INSTALLATION OF THE SPRINKLER HEADS, A FULL HEAD OF WATER SHALL BE USED TO FLUSH OUT THE SYSTEM. AFTER SYSTEM IS THOROUGHLY FLUSHED, CAP ALL RISERS.

**3.19. TESTING:**  
 TESTING SHALL BE CONDUCTED IN THE PRESENCE OF CITY AND/OR WATER DISTRICT INSPECTORS AND THE LANDSCAPE ARCHITECT AS REQUIRED. NOTIFY APPROPRIATE PARTY IN WRITING WHEN TESTING WILL BE CONDUCTED.  
 3.19.1. PRIOR TO BACKFILL OF TRENCHES EACH CIRCUIT SHALL BE TESTED FOR CONTINUITY.  
 3.19.1.2. EACH CONTROL WIRE AND/OR COMMUNICATION CABLE SHALL BE TESTED FOR LEAKS TO GROUND WITH AN OHM METER AFTER EACH INTERCONNECT CIRCUIT HAS BEEN INSTALLED AND CONNECTIONS HAVE BEEN MADE. NO CIRCUIT CHECKING LOWER THAN 1 MEGA OHM WILL BE ACCEPTABLE.  
 3.19.1.3. THE CONTRACTOR WILL OBTAIN WRITTEN VERIFICATION OF THE WIRE CONTINUITY. THE TEST SHALL CONDUCTED BY THE CONTROLLER ASSEMBLER, SITEONE GREENTECH. THIS TEST AND CERTIFICATION WILL BE COMPLETED AT NO ADDITIONAL COST.  
 3.19.2. TESTING OF PIPE:  
 3.19.2.1. ALL PRESSURE LINES SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF 125 LBS PER SQUARE INCH AND ALL NON PRESSURE LINES SHALL BE TESTED UNDER THE EXISTING STATIC PRESSURE AND BOTH BE PROVEN WATERTIGHT. (CONTRACTOR TO SUPPLY ALL HYDROSTATIC TEST EQUIPMENT NEEDED FOR TESTING.)  
 3.19.2.2. TEST PRESSURE SHALL BE SUSTAINED IN THE LINES FOR NOT LESS THAN FOUR HOURS. IF LEAKS DEVELOP, THE JOINTS SHALL BE REPLACED AND THE TEST REPEATED UNTIL THE ENTIRE SYSTEM IS PROVEN WATERTIGHT.  
 3.19.2.3. PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY CITY AND WATER DISTRICT INSPECTORS, LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO BACKFILL. BACKFILLING TRENCHES PRIOR TO INSPECTION WILL NOT BE ALLOWED AND ALL PREMATURELY FILLED TRENCHES SHALL BE SUBJECT TO REOPENING AS DIRECTED BY THE LANDSCAPE ARCHITECT.  
 3.19.3. TESTING OF SYSTEM PERFORMANCE (COVERAGE TEST):  
 3.19.3.1. OPERATIONAL TESTING SHALL OCCUR AFTER BACKFILL IS IN PLACE, AND SPRINKLER HEADS ADJUSTED TO FINAL POSITION. PERFORMANCE WILL ILLUSTRATE COMPLETE COVERAGE (HEAD-TO-HEAD) WITHOUT OVERSPRAY.  
 3.19.3.2. AFTER COMPLETION OF LANDSCAPE WORK, CAREFULLY ADJUST HEADS SO THEY WILL BE FLUSH WITH LAWN AREAS OR NOT MORE THAN 1" ABOVE FINISH GRADE IN GROUND COVER AREAS.  
 AT NO TIME WILL SPRINKLER HEAD OR VALVE BOX BE ABOVE ADJACENT CURB OR PEDESTRIAN PAVING.

**3.20. SITE OBSERVATION VISITS BY THE ARCHITECT:**  
 3.20.1. IN ALL CASES WHERE SITE OBSERVATION VISITS OF THE IRRIGATION SYSTEM WORK IS REQUIRED AND/OR WHERE PORTIONS OF THE WORK ARE SPECIFIED TO BE PERFORMED UNDER THE DIRECTION AND/OR SITE OBSERVATION OF THE ARCHITECT, CITY INSPECTOR OR THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PARTY AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF THE TIME SUCH SITE OBSERVATION AND/OR WHEN DIRECTION IS REQUIRED.  
 3.21.2. SITE OBSERVATION WILL BE REQUIRED FOR THE FOLLOWING PARTS OF THE WORK:  
 3.21.2.1. UPON INSTALLATION OF SLEEVES, MAINLINES AND LATERAL LINES; WHEN PIPES ARE LAID AND ARE TO BE SUBMITTED TO PRESSURE TESTS. DO NOT COVER ANY LINES UNTIL THEY HAVE BEEN CHECKED AND APPROVED.  
 3.21.2.2. UPON INSTALLATION AND TESTING OF VALVES, QUICK COUPLERS, DEVICES, AUTOMATIC CONTROLLERS, AND CONTROL VALVES AND WIRES.  
 3.21.2.3. WHEN THE SPRINKLER SYSTEM IS COMPLETED PRIOR TO PLANTING, THE CONTRACTOR, IN THE PRESENCE OF THE CITY INSPECTOR AND ARCHITECT, SHALL PERFORM A COVERAGE TEST TO DETERMINE IF THE COVERAGE OF WATER AFFORDED THE LAWN AND PLANTING AREAS IS COMPLETE AND ADEQUATE. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INADEQUACIES.  
 3.21.2.4. FINAL SITE OBSERVATION VISIT BY THE ARCHITECT AND PERFORMANCE TEST SHALL BE AT THE SAME TIME AS THE FINAL SITE OBSERVATION OF THE SPECIFIED LANDSCAPE MAINTENANCE PERIOD WORK.

**3.22. PRESSURE TEST:**  
 3.22.1. NOTIFY LANDSCAPE ARCHITECT IN WRITING WHEN PRESSURE TESTING WILL BE CONDUCTED. CONDUCT TESTS IN PRESENCE OF THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.  
 3.22.2. ALL PRESSURE LINES SHALL BE TESTED UNDER HYDROSTATIC PRESSURE OF 150 LBS. PER SQUARE INCH AND ALL NON PRESSURE LINES SHALL BE TESTED UNDER THE EXISTING STATIC PRESSURE AND BOTH BE PROVEN WATERTIGHT. (CONTRACTOR TO SUPPLY ALL HYDROSTATIC TEST EQUIPMENT NEEDED FOR TESTING.)  
 3.22.3. PRESSURE SHALL BE SUSTAINED IN THE LINES FOR NOT LESS THAN FOUR HOURS. IF LEAKS DEVELOP, THE JOINTS SHALL BE REPLACED AND THE TEST REPEATED UNTIL THE ENTIRE SYSTEM IS PROVEN WATERTIGHT.  
 3.22.4. TESTS SHALL BE OBSERVED AND APPROVED BY THE CITY AND WATER DISTRICT'S INSPECTOR, LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO BACKFILL. BACKFILLING TRENCHES PRIOR TO INSPECTION WILL NOT BE ALLOWED AND ALL PREMATURELY FILLED TRENCHES SHALL BE SUBJECT TO REOPENING AS DIRECTED BY THE LANDSCAPE ARCHITECT.

**3.23. COVERAGE TEST:**  
 3.23.1. NOTIFY LANDSCAPE ARCHITECT IN WRITING WHEN COVERAGE TESTING WILL BE CONDUCTED. CONDUCT TESTS IN PRESENCE OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.  
 3.23.2. COVERAGE TESTING: PERFORM OPERATIONAL TESTING AFTER HYDROSTATIC TESTINGS COMPLETED, BACKFILL IS IN PLACE, AND SPRINKLER HEADS ADJUSTED TO FINAL POSITION.  
 3.23.3. AFTER COMPLETION OF LANDSCAPE WORK, CAREFULLY ADJUST HEADS SO THEY WILL BE FLUSH WITH LAWN AREAS OR NOT MORE THAN 1/2" ABOVE FINISH GRADE IN GROUND COVER AREA.

**3.24. SITE OBSERVATION VISITS BY THE ARCHITECT:**  
 3.24.1. IN ALL CASES WHERE SITE OBSERVATION VISITS OF THE IRRIGATION SYSTEM WORK IS REQUIRED AND/OR WHERE PORTIONS OF THE WORK ARE SPECIFIED TO BE PERFORMED UNDER THE DIRECTION AND/OR SITE OBSERVATION OF THE ARCHITECT OR THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR, OWNER'S REPRESENTATIVE AND ARCHITECT AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF THE TIME SUCH SITE OBSERVATION AND/OR WHEN DIRECTION IS REQUIRED.  
 3.24.2. SITE OBSERVATION WILL BE REQUIRED FOR THE FOLLOWING PARTS OF THE WORK:  
 3.24.2.1. UPON INSTALLATION AND TESTING OF SLEEVES, MAINLINES AND LATERAL LINES; WHEN PIPES ARE LAID AND ARE TO BE SUBMITTED TO PRESSURE TESTS. DO NOT COVER ANY LINES UNTIL THEY HAVE BEEN CHECKED AND APPROVED.  
 3.24.2.2. UPON INSTALLATION AND TESTING OF VALVES, QUICK COUPLERS, DEVICES, AUTOMATIC CONTROLLERS, AND CONTROL VALVES AND WIRES.  
 3.24.2.3. WHEN THE SPRINKLER SYSTEM IS COMPLETED PRIOR TO PLANTING, THE CONTRACTOR, IN THE PRESENCE OF THE CITY INSPECTOR AND ARCHITECT, SHALL PERFORM A COVERAGE TEST TO DETERMINE IF THE COVERAGE OF WATER AFFORDED THE LAWN AND PLANTING AREAS IS COMPLETE AND ADEQUATE. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INADEQUACIES.  
 3.24.2.4. FINAL SITE OBSERVATION VISIT BY THE ARCHITECT AND PERFORMANCE TEST SHALL BE AT THE SAME TIME AS THE FINAL SITE OBSERVATION OF THE SPECIFIED LANDSCAPE MAINTENANCE PERIOD WORK.

**3.25. IRRIGATION SYSTEM MAINTENANCE:**  
 3.25.1. GENERAL IRRIGATION SYSTEM MAINTENANCE:  
 3.25.1.1. AS A STANDARD PRACTICE, THE IRRIGATION SYSTEMS SHALL BE MAINTAINED IN A CONTINUOUS AND PROPER WORKING CONDITION FOR THE ENTIRE MAINTENANCE PERIOD

3.25.1.2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE IRRIGATION SYSTEMS IN A PROPER WORKING CONDITION AT ALL TIMES. THIS INCLUDES, BUT IS NOT LIMITED TO:  
 • CONTINUOUSLY MONITORING AND ADJUSTING THE SPRINKLERS TO INSURE PROPER COVERAGE, WHILE AVOIDING OVER-SPRAY.  
 • INSURING PROPER OPERATION OF ALL IRRIGATION APPURTENANCES.  
 • MONITORING, ADJUSTING AND RECORDING IRRIGATION SCHEDULING, AS REQUIRED.  
 • RESPONSIBLY APPLYING WATER EFFICIENTLY AND BELOW THE OTAY WATER DISTRICT'S "MAXIMUM APPLIED WATER ALLOWANCE" (MAWA), AS PROVIDED IN THE APPROVED PLANS.  
 3.25.1.3. AS SHRUBS MATURE, RISERS MAY NEED TO BE USED TO EXTEND OVER THE TOP OF THE SHRUBS OR GROUND-COVERS TO PROVIDE PROPER COVERAGE.  
 3.25.1.4. SHRUBS MAY NOT BE PRUNED TO ACCOMMODATE IRRIGATION COVERAGE BEING BLOCK BY FOLIAGE. THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER TO THE OWNER FOR APPROVAL, IF ADDITIONAL SPRINKLERS ARE REQUIRED TO PROVIDE ADEQUATE COVERAGE.  
 3.25.1.5. THE MAINTENANCE FOREMAN SHALL HAVE THE EXPERIENCE AND KNOWLEDGE TO OPERATE AND REPAIR ALL EQUIPMENT SPECIFIED ON THIS PROJECT. THIS INCLUDES SPRINKLERS, APPURTENANCES AND THE IRRIGATION CONTROL SYSTEM.

**3.26. IRRIGATION REPAIRS & REPLACEMENTS**  
 3.26.1. IRRIGATION COMPONENTS WILL REQUIRE ROUTINE REPAIR, ADJUSTMENTS AND REPLACEMENT. REPAIRS TO ANY IRRIGATION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE ORIGINAL INSTALLATION DETAILS.  
 3.26.2. ALL MATERIALS USED IN REPAIRS ARE TO OF THE SAME MAKE AND KIND AS ORIGINALLY INSTALLED.  
 3.26.3. SUBSTITUTIONS SHALL NOT BE ALLOWED UNLESS THE ORIGINALLY SPECIFIED EQUIPMENT HAS BEEN DISCONTINUED BY THE MANUFACTURER. ANY PROPOSED REPLACEMENT EQUIPMENT FOR DISCONTINUED IRRIGATION MATERIALS MUST BE ADHERED TO THE ORIGINAL DESIGN CRITERIA, MAINTAINING COVERAGE UNIFORMITY, FLOW RATES AND PRECIPITATION RATES. ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE AND CITY OF CHULA VISTA LANDSCAPE INSPECTOR.


**3.27. WATER USE**  
 3.27.1. TWELVE MONTHS PRIOR TO THE SCHEDULED TURN-OVER DATE OF ANY LANDSCAPE AREA, PROPOSED WITH A CITY OF CHULA VISTA CPO, THE CONTRACTOR MUST HAVE THE PERMANENT WATER METER INSTALLED AND CERTIFIED BY THE OTAY WATER DISTRICT & SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.  
 3.27.2. THE CONTRACTOR IS LIMITED BY THE "MAXIMUM APPLIED WATER ALLOWANCE", AS DICTATED BY THE OTAY WATER DISTRICT.  
 3.27.3. THE CONTRACTOR WILL ONLY BE PERMITTED TO EXCEED THE MAXIMUM APPLIED WATER ALLOWANCE, SHOULD THE PLANT ESTABLISHMENT PERIOD OCCUR DURING THE SUMMER MONTHS (MAY THROUGH SEPTEMBER). REGARDLESS OF WHEN THE MAINTENANCE PERIOD WAS INITIATED, THE WATER USE SHOULD NEVER EXCEED THE MAXIMUM APPLIED WATER ALLOWANCE AFTER THE MONTH OF SEPTEMBER, UNLESS THERE IS DOCUMENTED UNSEASONABLY HOT WEATHER.  
 3.27.4. AT THE END OF SEPTEMBER, THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE TO THE OWNER'S REPRESENTATIVE AND CITY OF CHULA VISTA LANDSCAPE INSPECTOR, WRITTEN COPIES OF ALL WATER SCHEDULING OVER THE PAST SUMMER MONTHS AND THE PROPOSED SCHEDULES FOR THE UPCOMING FALL, WINTER & SPRING MONTHS.  
 3.27.5. THE CONTRACTOR (OR OWNER'S REP) SHALL SUBMIT INVOICES TO THE CITY OF CHULA VISTA LANDSCAPE INSPECTOR (FROM THE OTAY WATER DISTRICT), TO VERIFY THAT THE WATER USE IS EQUAL TO OR LOWER THAN THE CALCULATED "ESTIMATED WATER USE" (EWU), FOR THE FIVE SUMMER MONTHS (MAY THROUGH SEPTEMBER).  
 3.27.6. WATERING SHALL ONLY OCCUR AT NIGHT, WITHIN THE WATERING WINDOW SPECIFIED IN THESE PLANS. THE CONTRACTOR SHALL OPERATE THE SPRINKLER SYSTEM IN COMPLIANCE WITH THE SCHEDULING GUIDELINES PROVIDED IN THESE PLANS. ANY DEVIATION FROM THE SCHEDULING GUIDELINES WILL BE PERMITTED WITH WRITTEN DOCUMENTATION OF ALL CHANGES PROVIDED TO THE OWNER'S REPRESENTATIVE AND CITY OF CHULA VISTA LANDSCAPE INSPECTOR WITHIN SEVEN DAYS OF THE ADJUSTMENT. FAILURE TO RECORD SCHEDULING CHANGES MAY RESULT IN AN EXTENSION OF THE MAINTENANCE PERIOD, AT THE CONTRACTOR'S EXPENSE.

**3.28. MAINTENANCE PERIODS**  
 3.28.1. ALL AREAS PROPOSED TO BE CITY OF CHULA VISTA CPO SHALL BE MAINTAINED FOR A PERIOD OF NO LESS THAN TWO YEARS.  
 3.28.2. ALL OTHER AREAS PROPOSED TO BE MAINTAINED AS PART OF A HOME OWNER'S ASSOCIATION OR PRIVATELY MAINTAINED, SHALL BE MAINTAINED FOR A PERIOD OF NO LESS THAN NINETY DAYS.  
 3.28.3. THE MAINTENANCE PERIOD SHALL BEGIN ON THE FIRST DAY AFTER ALL OF THE WORK (AS DEFINED IN THE CONTRACTOR'S SCOPE OF SERVICES), IS COMPLETE AND ACCEPTED WITH WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE AND CITY OF CHULA VISTA LANDSCAPE INSPECTOR.  
 3.28.4. THE CONTRACTOR'S MAINTENANCE PERIOD WILL BE EXTENDED WHEN IT IS OF THE OPINION OF THE OWNER'S REPRESENTATIVE AND THE CITY OF CHULA VISTA LANDSCAPE INSPECTOR, THAT THE CONTRACTOR HAS NOT FULFILLED THEIR MAINTENANCE RESPONSIBILITIES, AS DEFINED IN THEIR CONTRACT. THE CONTRACTOR WILL BE RESPONSIBLE (AT THEIR OWN EXPENSE), FOR THE ADDITIONAL MAINTENANCE REQUIRED UNTIL THE AREA IS IN AN ACCEPTABLE CONDITION, AS DETERMINED BY THE OWNER'S REPRESENTATIVE AND THE CITY OF CHULA VISTA LANDSCAPE INSPECTOR.

WATER AGENCY STANDARDS (WAS) SECTION 15152 SHALL TAKE PRECEDENCE IN THE EVENT OF CONFLICT.

\*THE OTAY WATER DISTRICT SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CONSTRUCTION AT (619) 670-2241. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.  
 \*NO DECORATIVE FOUNTAINS, DRINKING FOUNTAINS, PLAYGROUNDS, SWIMMING POOLS OR OUTDOOR EATING FACILITIES OR WELLS KNOWN TO EXIST WITHIN LIMITS OF WORK.  
 \*ALL SCREENED FACILITIES ARE EXISTING OR PROPOSED PER CIVIL PLANS. TRIBUTARY LA LANDSCAPE ARCHITECTURE CANNOT VERIFY ACTUAL LOCATIONS. CONTRACTOR MUST FIELD VERIFY ACTUAL LOCATIONS.

**R.V. IDENTIFICATION BY COLOR CODING:**  
 SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. DECALS AND/OR ADHESIVE LABELS ARE NOT ACCEPTABLE.

OTAY WATER DISTRICT PROJECT NO. D0944-060189 PZ 624, 711      RPZ 680 REVIEWED BY: <i>[Signature]</i> DATE: 5/14/17 SIGNATURE EXPIRES AFTER 1 YEAR		IT'S THE LAW! CALL BEFORE YOU DIG! CALL AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING 1-800-227-2600 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		"AS-BUILT" SIGNED: _____ DATE: _____ PRINT NAME: _____ REGIST. EXP. _____ DISCIPLINE: LANDSCAPE ARCHITECT		 Tributary LA, Inc. 2725 Jefferson Street, Suite 14 Carlsbad, CA 92008 760.434.9300 office 760.434.9303 fax		DATE: 10 APR '17 SCALE: NO SCALE JOB NO. 15024 DRAWN BY: T.P./T.G. W.O. NO. OR-3001G	
CITY OF CHULA VISTA LANDSCAPE IRRIGATION SPECIFICATIONS FOR: <b>OTAY RANCH VILLAGE 3 SLOPE &amp; EROSION CONTROL</b> CHULA VISTA TENTATIVE TRACT MAP NO. 13-02 OWD WO# D0944-060189 OWD PERMIT# PLR-16-014				Drawing No. 16050-54 Sheet 54 of 68					

CONSTRUCTION RECORD	REFERENCES	BY	REVISIONS	Date	App'd	BENCH MARK
Contractor _____	16026-01 - 16026-93	HUNSAKER & ASSOC.				DESCRIPTION: BRASS DISK MARKED "50 CITY ENGR." IN 3/4" I.D. LOCATION: 15 MILES EAST OF INTX OF MAIN ST. & HERITAGE ST. ON ROCK MOUNTAIN 100' EASTERLY OF SUBDIVISION 10' HIGH EROSION & 1700' SOUTHERLY OF WATER STORAGE FACILITY. (PTH 1359 PER R.O.S. H84) ELEV=529.319' (NAVD83)
Inspector _____						
Date Completed _____						

Print Date: 10 APR '17 OWD WO# D0944-060189 OWD PERMIT# PLR-16-014