TWAIN HARTE COMMUNITY SERVICE DISTRICT - OFFICE AND TRAINING SITE STORMWATER IMPROVEMENTS

PROJECT VICINITY

<u>CLIENT</u>

TWAIN HARTE COMMUNITY SERVICE DISTRICT 2912 VANATAGE POINT DR. TWAIN HARTE, CA, 95383

PROJECT TEAM

WATERSHED PROGRESSIVE

CENTRAL SIERRA OFFICE 18653 MAIN STREET GROVELAND, CALIFORNIA 95321

CENTRAL COAST OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CA 93023

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PROJECT SUMMARY

THE TWAIN HARTE COMMUNITY STORMWATER ENHANCEMENT PROJECT (THCSEP) IS A COLLABORATIVE EFFORT TO PLAN FOR AND IMPLEMENT HYDROLOGICALLY CONNECTED STORMWATER TREATMENTS. THESE TREATMENTS WILL ADDRESS EXISTING DEFICIENCIES AND INCREASE RESILIENCE TO FUTURE CONDITIONS. THE TWAIN HARTE COMMUNITY SERVICES DISTRICT (THCSD) OFFICE PROJECT (LOCATED AT 22912 VANTAGE POINT DR, TWAIN HARTE, CA) IS ONE OF THE TWAIN HARTE COMMUNITY STORMWATER ENHANCEMENT PROJECTS.

THE GOALS OF THE THCSEP AND THCSD OFFICE PROJECT ARE TO MITIGATE HAZARDS AND PROVIDE MULTIPLE BENEFITS TO THE WATERSHED AND SURROUNDING REGION. THESE MULTI-BENEFIT GOALS INCLUDE:

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- INCREASED TREATMENT OF STORMWATER RUNOFF
- INCREASED WATER SUPPLY RELIABILITY - IMPROVEMENT AND PROTECTION OF ENVIRONMENTAL HABITAT
- IMPROVEMENT OF STORMWATER SYSTEM CAPACITY (FLOOD MANAGEMENT)

VICINITY MAP



PROJECT LOCATION MAP



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L1.1	PROPOSED CONDITIONS EXHIBIT
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ABBRE	VIAT	IONS

(E)	EXISTING
(N)	NEW
LOD	LIMIT OF DISTURBANCE
POC	POINT OF CONNECTION
VAC	AC VOLTAGE
CW	COLD WATER
RW	RAINWATER
SW	STORMWATER
LP	LOW POINT
HP	HIGH POINT



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SHEET NAME:

COVERSHEET





RAIN GARDEN			
BIOSWALES			
BIOSWALES AND RAIN GARDEN			
REFERENCE	REQUIRED AREA (SQ-FT)	PROPOSED AREA (SQ-FT)	
SWALES	4,600	3,480	
N GARDEN	1,600	2,250	
RTE MEADOWS		470	
TOTAL	6,200	6,200	





5,000

RAINWATER COLLECTION SURFACE

9,568





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GENERAL NOTES

- A. ALL EXISTING TANKS, PIPING, AND ELECTRICAL WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOW IS BASED ON A SURVEY CONDUCTED BY DAVID RAGLAND, ENGINEERING AND LAND SURVEYING. THE ELEVATIONS SHOWN ON THIS SHEET ARE DERIVED FROM A FIELD SURVEY FROM MARCH 2024; THE BEARINGS AND DISTANCES ARE RECORD PER PARCEL MAP 28-98 AND R/S 41-97 NAVD88.
- D. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE CREATED TO REPRESENT THE CONCEPTS AS ASSOCIATED WITH ON-SITE WATER REUSE INSTALLATIONS. FOR ALL SITE DIMENSIONS AND EXACT RELATIVE LOCATIONS, FIELD CONDITION AS-BUILTS SHALL BE REQUESTED FROM THE PROPERTY OWNER.

LEGEND - SURVEY AND EXISTING CONDITIONS

	PROPERTY BOUNDARY
-00	EXISTING FENCE
	EXISTING CONTOURS
	EXISTING BUILDING
	EXISTING TREE(S)
SS	EXISTING SEWER LINE
ОН	EXISTING OVERHEAD UTILITY
w	EXITING UNDERGROUND WATER
UG	EXISTING UNDERGROUND COMMUNICATIONS
UE	EXISTING UNDERGROUND ELECTRICAL
EP	EDGE OF PAVEMENT



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7) 1' WIDE GRAVEL STRIP, 6" DEPTH MAXIMUM - TO PREVENT DOWN CUTTING OF ASPHALT EDGE

2) 3) NATIVE SWALE BASIN PLANTS - REFERENCE PLANTING PLAN

4) GRAVEL MULCH, 4-6" 5) CONVEYANCE AREA 6) (E) PAVED SURFACE

- UNCOMPACTED SUB GRADE
- 1) (E) GRADE ADJACENT SURFACES MAY VARY

- DETAIL NOTES:

4" MIN. GRAVEL-6" MIN. GRAVEL-CHECK DAM LONGITUDINAL SECTION 1

BIOSWALE

SECTION VIEW







KEY ALL BOULDERS ON BOTTOM AND EDGES -INTO SOIL AND BANK BY 1/3 THEIR SIZE





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DETAIL NOTES:

- FINISHED GRADE AT MULCH
 45-DEGREE TAPER TO ENSURE MULCH STAYS IN PLACE
 METAL EDGING
- 4) METAL EDGING STAKES
- 5) DECOMPOSED GRANITE6) GEO-TEXTILE FABRIC
- 7) CLASS II AGGREGATE BASE8) COMPACTED SUB-GRADE

GENERAL NOTES:

- A. ADJACENT MULCH/TURF/LANDSCAPE SURFACE WITH A MIN. 6-INCH OFFSET FROM METAL EDGING ALONG WITH A 45-DEGREE TAPER TO
- ENSURE MULCH STAYS IN PLACE.B. UTILIZE GALVANIZED OR COATED METAL EDGING TO PREVENT RUST.C. DECOMPOSED GRANITE SIZE: FINE TO 1/4" PARTICLE SIZE INSTALL IN 1/2" LAYERS, EACH LAYER COMPACTED 90% WITH TOP
- LAYER MINIMUM 75% DUST FINES; ADD STABILIZER PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.



1 LANDSCAPING EDGING - DECOMPOSED GRANITE PAVING (TYP)



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LEGEND

	PROPERTY BOUNDARY
1795	EXISTING CONTOURS

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD XCZ-100-IVM 1" WIDE FLOW IVM DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESBIVM SMART VALVE W/ FACTORY INSTALLED IVM-SOL 0.3-20 GPM AND 1IN. PRESSURE REGULATING 40PSI FLOW-INDICATING BASKET FILTER 0.3-20 GPM
۲	PIPE TRANSITION POINT ABOVE GRADE PVC LATERAL TO DRIP TUBING
$\begin{bmatrix} + & + & + & + & + & + & + \\ + & + & + &$	AREA TO RECEIVE DRIP EMITTERS 1/2IN. FEMALE THREADED POINT SOURCE DRIP EMITTER. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH - 6.0 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI.
	EMITTER NOTES:
	05 EMITTERS (2 ASSIGNED TO EACH 1 GAL. PLANT) 05 EMITTERS (4 ASSIGNED TO EACH 15 GAL. PLANT)
SYMBOL XX	MANUFACTURER/MODEL/DESCRIPTION
	RAINWATER POC W/MAKEUP MUNICIPAL WATER
С	RAIN BIRD ESP-2WIRE (120VAC) INDOOR/ OUTDOOR CONTROLLER W/ DECODER AUTO-ADDRESS. STANDARD DIRECT BURIAL WIRE.
RS	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET
	IRRIGATION EMITTER LINE: POLY 1/2" TUBING
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC CLASS 200 SDR 21

		Valve Callout		
# •		Valve Number		
#"	#•	Valve Flow		
		Valve Size		

SHEET NOTES

- 1. INSTALLATION OF DRIP EMITTERS: INSTALL DRIP EMITTERS QUANTITIES AS SPECIFIED IN IRRIGATION SCHEDULE BY PLANT SIZE.
- 2. INSTALLATION OF IRRIGATION VALVES: INSTALL JUMBO VALVE BOX IN GROUND. REFERENCE IRRIGATION DETAILS FOR SPECIFICATIONS. 3. INSTALLATION OF PIPE SLEEVES UNDER PATHWAYS AS SPECIFIED IN
- PLAN AND SCHEDULE.



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IRRIGATION PLAN

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD XCZ-100-IVM 1" WIDE FLOW IVM DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1IN. BALL VALVE WITH 1IN. PESBIVM SMART VALVE W/ FACTORY INSTALLED IVM-SOL 0.3-20 GPM AND 1IN. PRESSURE REGULATING 40PSI FLOW-INDICATING BASKET FILTER 0.3-20 GPM	1
۲	PIPE TRANSITION POINT ABOVE GRADE PVC LATERAL TO DRIP TUBING	7
	AREA TO RECEIVE DRIP EMITTERS 1/2IN. FEMALE THREADED POINT SOURCE DRIP EMITTER. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH - 6.0 GPH. RECOMMENDED PRESSURE FROM 20 PSI-50 PSI.	4,394 s.f.
	EMITTER NOTES: 05 EMITTERS (2 ASSIGNED TO EACH 1 GAL. PLANT) 05 EMITTERS (4 ASSIGNED TO EACH 15 GAL. PLANT)	870
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
XX	RAINWATER POC W/MAKEUP MUNICIPAL WATER	1
С	RAIN BIRD ESP-2WIRE (120VAC) INDOOR/ OUTDOOR CONTROLLER W/ DECODER AUTO-ADDRESS. STANDARD DIRECT BURIAL WIRE.	1
RS	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET	1
	IRRIGATION EMITTER LINE: POLY 1/2" TUBING	500 I.f.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"	180 l.f.
	IRRIGATION MAINLINE: PVC SCHEDULE 40	10 l.f.
	PIPE SLEEVE: PVC CLASS 200 SDR 21	60 I.f.

Valve Numbe Valve Flow Valve Size

Valve Callout

IRRIGATION NOTES

- AND RELATED WORK PRIOR TO CONSTRUCTION.
- EXPERIENCED WORKMEN.
- CAUSED BY WORK AT NO ADDITIONAL COST TO THE OWNER.
- AND ARCHITECTURAL FEATURES.
- ATTENTION OF THE OWNERS' REPRESENTATIVE.
- ON SITE.
- TYPE AND QUANTITIES.
- OR 1/2" FOR DRIP/EMITTER LATERALS.
- PARTICLES FROM THE LINES.
- INSTRUCTIONS ARE OBTAINED.
- PROMPTLY.
- SCHEDULE WITHIN THE HOURS SPECIFIED.
- PROJECT:
 - ALL VALVES/IRRIGATION EQUIPMENT.

- NOTED IN THE LEGEND.
- RELATIVE TO THE IRRIGATION VALVE POINT OF CONNECTION.
- SPACING, AND ADDITIONAL INFORMATION.
- **REQUIRED WITH COMPRESSION ADAPTER FITTINGS.**
- EMITTERS.
- PRIOR TO IRRIGATION VALVE MANIFOLD.

1. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS

2. COORDINATE UTILITY LOCATIONS ("CALL BEFORE YOU DIG - 811") PRIOR TO CONSTRUCTION. 3. AREAS, AS IDENTIFIED TO HAVE NEW IRRIGATION SYSTEM, SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND

4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, EXISTING TREES ETC, CONTRACTOR SHALL REFERENCE PLAN AND SPECIFICATIONS AS NOTED, FOR THE LOCATION, SIZE AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. EXACT LOCATIONS TO BE FILED DIRECTED, CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES WHERE NEW IRRIGATION IS TO BE INSTALLED. ALL EXISTING TREES SHALL BE PROTECTED AGAINST EXCAVATION DAMAGE. CONTRACTOR TO REPAIR ANY DAMAGE

5. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY. FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING

6. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND NOTES OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE

7. IRRIGATION SYSTEM DESIGNED FOR A MINIMUM 70 PSI (STATIC PRESSURE) TO BE PROVIDED AT THE FARTHEST HEAD FROM POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNERS' AUTHORIZED REPRESENTATIVE. CONTRACTOR TO VERIFY PRESSURE

8. IRRIGATION POINT OF CONNECTIONS SHOWN ON PLAN MUST BE VERIFIED AT THE SITE. COORDINATE WITH EXISTING UTILITIES PLAN FOR RE-LOCATING POINT OF CONNECTION TO A LOCATION WHICH BEST SUITS SITE CONDITIONS AND IRRIGATION ZONE REQUIREMENTS.

9. SLEEVE MAINLINE AND LATERALS UNDER ALL PAVING AND WALLS. REFERENCE SCHEDULE FOR SIZE,

10. ALL IRRIGATION MAINLINES AND LATERALS TO BE TRENCHED AND BURIED SUB-SURFACE. 11. UN-SIZED LATERAL LINE PIPE DOWNSTREAM FROM SIZED PIPE SHALL BE 1-1/2" FOR VALVE LATERALS

12. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.

13. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION EQUIPMENT. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT

14. NOTIFY OWNER'S REPRESENTATIVE OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL THE

15. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL, BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 8" LOOSE DEPTH. AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD MAXIMUM DENSITY (ASTM D 698). CONTRACTOR TO REPAIR ALL SETTLED TRENCHES

16. OPERATE IRRIGATION BETWEEN THE HOURS OF 10:00 PM AND 8:00 AM AND/OR PER AVAILABLE EXISTING

17. 1" RAINWATER LINE TO BE USED AS IRRIGATION POINT OF CONNECTION / MAIN LINE. 18. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE

I. OPERATING KEYS/CONTROL MEASURE FOR EACH OPERATED VALVE(S).

II. SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF

19. TO BE NOTED: PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.

20. TO BE NOTED: DUE TO GRADE AND ELEVATION CONSTRAINTS, CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL NODES WHERE LOW POINT DRAINAGE COULD OCCUR.

21. TO BE NOTED: REGARDING PIPE SIZING - IF A SECTION OF UN-SIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UN-SIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UN-SIZED PIPE SHOULD SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE

22. TO BE NOTED: AREAS TO RECEIVE DRIP LINE/GRID SHALL HAVE DRIP TUBE FLUSH VALVES AT THE LOWEST ELEVATION RELATIVE TO THE IRRIGATION VALVE POINT OF CONNECTION AND DRIP TUBE AIR RELIEF VALVES AT THE HIGHEST POINT RELATIVE TO THE IRRIGATION VALVE POINT OF CONNECTION. 23. ALL POINT SOURCE EMITTER POLY LINES SHALL ALSO RECEIVE FLUSH VALVES AND AIR VALVES

24. REFER TO PLANTING PLAN FOR PLANT MATERIAL NAMES, ABBREVIATIONS, SPECIFIC SIZES, ON-CENTER

25. DO NOT INSTALL DRIP LINE TUBING UNDER PAVED SURFACES. CONNECT DRIP LINE TUBING TO SCHEDULE 40 PVC LATERAL LINE PIPING FOR ROUTING UNDER PAVED SURFACES AND SCHEDULE 80 PVC PIPING FOR ROUTING THROUGH PLANTER WALLS. ADAPT DRIP LINE TUBING TO PVC PIPING AS

26. REFERENCE PIPE TRANSITION POINTS FOR ADAPTING PVC TO DRIP TUBING AND POLY TUBING FOR

27. MANUAL SHUT OFF VALVES SHALL BE REQUIRED AND INSTALLED AT EACH POINT OF CONNECTION



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IRRIGATION SCHEDULE NOTES









DRIP IRRIGATION-EMITTER FLUSH VALVE

Not to Scale





- DETAIL NOTES:
- 1) 18-24" COILED WIRE
- 2) WATERPROOF CONNECTORS
- Y-FILTER + PRESSURE REGULATOR (25 OR 40-PSI)
 IRRIGATION CONTROL VALVE (REF. IRRIGATION SPECIFICATIONS FOR MODEL)
- 5) FINISH GRADE

- FINISH GHADE
 JUMBO VALVE BOX
 SCH-80 UNIONS
 MAINLINE PIPE & FITTINGS
 BRICK SUPPORTS (4)
 TO IRRIGATION LATERAL LINE
 3/4" MINUS WASHED GRAVEL



Not To Scale



DRIP EMITTER PLACEMENT (TREES, SHRUBS)



IRRIGATION DETAILS

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 06.06.24

 2 100% SUBMITTAL
 06.26.24

3100% SUBMITTAL v2 07.05.24 4100% SUBMITTAL v3 08.09.24

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DATE: PROJECT NO.

DESIGN BY:MS

REVIEW BY:NS

DRAWN BY:MS, MG



100% DESIGN







CENTRAL SIERRA OFFICE 18653 MAIN STREET GROVELAND, CALIFORNIA 95321



(1)



GENERAL NOTES

- A. ALL EXISTING TANKS, PIPING, AND ELECTRICAL WORK SHALL BE AVOIDED AND PROTECTED WHEN NECESSARY THROUGHOUT CONSTRUCTION.
- B. 811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG
- C. TOPOGRAPHIC DATA SHOW IS BASED ON A SURVEY CONDUCTED BY DAVID RAGLAND, ENGINEERING AND LAND SURVEYING. THE ELEVATIONS SHOWN ON THIS SHEET ARE DERIVED FROM A FIELD SURVEY FROM MARCH 2024; THE BEARINGS AND DISTANCES ARE RECORD PER PARCEL MAP 28-98 AND R/S 41-97 NAVD88.
- D. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE CREATED TO REPRESENT THE CONCEPTS AS ASSOCIATED WITH ON-SITE WATER REUSE INSTALLATIONS. FOR ALL SITE DIMENSIONS AND EXACT RELATIVE LOCATIONS, FIELD CONDITION AS-BUILTS SHALL BE REQUESTED FROM THE PROPERTY OWNER.

LEGEND

	APPROXIMATE PROPERTY BOUNDARY
-00	EXISTING FENCE
1795	EXISTING CONTOURS
	RAINWATER COLLECTION SURFACE
	ROCK CHECK DAM
	EXISTING TREE(S)

PLANTING LEGEND

LA.

SYMBOL	BOTANICAL NAME	COMMON NAME
TREES		
	Acer macrophyllum	Big Leaf Maple
Contraction of the second seco	Amelanchier alnifolia	Serviceberry
	Populus tremuloides	Quaking Aspen
man and a set	Pseudotsuga menziesii	Douglas Fir
	LOWER BIOSWALE RAIN GARDEN PLA	E AND NTING



UPPER BIOSWALE AND RAIN GARDEN PLANTING

BIOSWALE AND RAIN GARDEN LOW POINT GRAVEL/ROCK



WATERSHED PROGRESSIVE WWW.WATERSHEDPROGRESSIVE.COM 209.732.0018

CENTRAL SIERRA OFFICE 18653 MAIN STREET GROVELAND, CALIFORNIA 95321

OJAI OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023



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REVISION DATE 1 60% SUBMITTAL 06.06.24 2 100% SUBMITTAL 06.26.24 3100% SUBMITTAL v2 07.05.24 4100% SUBMITTAL v3 08.09.24

DESIGN BY:MG, MS

DRAWN BY:MG, MS **REVIEW BY:NS**

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SHEET NO .:

L5.0



SCALE: 1"=10'

LEGEND

-00

APPROXIMATE PROPERTY BOUNDARY
EXISTING FENCE
EXISTING CONTOURS
EXISTING BUILDING
ROCK CHECK DAM

EXISTING TREE(S)



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PLANT SCHEDULE



Native Seed Plant Mix Native Seed Plant Mix

ATIVE SEED PLANT MIX FOR RAIN GARDEN			
OTANICAL NAME	COMMON NAME		
chillea millefolium	Common Yarrow		
arex divulsa "Berkeley Sedge"	Berkley Sedge		
eymus condensatus 'Canyon Prince'	Canyon Prince Giant Wildrye		
isyrinchium bellum	Blue Eyed Grass		

Wain Harte Community Service District 22912 Vantage Point Dr. Twain Harte, CA 95383

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WATER VALVE



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PLANTING NOTES

SITE PREPARATION

- 1. CONTRACTOR SHALL BE AWARE OF ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR FIELD LOCATION OF UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY OF ANY COST.
- DO NOT PROCEED WITH CONSTRUCTION AS DESIGNED IF OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF WATERSHED PROGRESSIVE PROJECT MANAGER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH 3. SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.

SOIL PREPARATION

- 4. PRIOR TO STARTING WORK, CONTRACTOR SHALL TAKE SOIL SAMPLES WHERE DIFFERENT SOIL TYPES ARE ENCOUNTERED ON THE PROJECT SITE. SOIL SHALL BE ANALYZED BY AN APPROVED COMMERCIAL SOIL TESTING LABORATORY (TRI-C ENTERPRISES, 1-800-392-3311, OR FRUIT GROWERS LABORATORY, 805-392-2000), OR EQUAL, FOR SUITABILITY FOR ORNAMENTAL PLANTING. A COPY OF THE RESULTS OF THIS ANALYSIS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE SOILS LAB AS TO THE RATE AND ANALYSIS OF FERTILIZER & AMENDMENTS TO PROVIDE A SUITABLE MEDIUM FOR PLANTING. THE CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY POTENTIAL PROBLEMS WHICH MAY RESULT DUE TO HARMFUL SUBSTANCES FOUND IN THE SOIL. FAILURE TO ACT AS SPECIFIED MAY RESULT IN THE CONTRACTOR ASSUMING FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO PLANTS.
- REMOVE ROCKS LARGER THAN 3" FROM PLANTING AREAS.
- 6. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.
- 7. ON-SITE SOILS WITH AN ORGANIC CONTENT OF AT LEAST 5 PERCENT CAN BE PROPERLY STOCKPILED (TO MAINTAIN ORGANIC CONTENT) AND REUSED.
- CONTRACTOR TO LOOSEN COMPACTED SOILS AND MIX SOIL AMENDMENTS AND CONDITIONERS TO A MINIMUM DEPTH OF 12 INCHES IN PLANTING AREAS.

FINISHED GRADES IN PLANTING AREAS

- THE CONTRACTOR SHALL ALLOW FOR THE ADDITION OF SPECIFIED 9. QUANTITIES OF SOIL AMENDMENTS AND CONDITIONERS IN SOIL PREPARATION AND FINISH GRADING.
- 10. THE LANDSCAPE ARCHITECT WILL APPROVE FINISH GRADES AT ALL LANDSCAPE AREAS PRIOR TO PLANTING.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH THE SPECIFIED FINISHED ELEVATION, INCLUDING IMPORTING SOIL OR EXCAVATION, REMOVAL AND DISPOSAL AT AN APPROVED LOCATION. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTARY AMENDED IMPORT SOIL IN ANY PLANTING AREAS AS NECESSARY TO ACHIEVE THE SPECIFIED FINISH PLANTING GRADES. IMPORTED SOIL SHALL BE FREE OF UNWANTED SEEDS.

PLANTING

- 12. COORDINATE INSTALLATION OF LARGE PLANT MATERIAL WITH INSTALLATION OF STRUCTURES SUCH AS WALL FOOTINGS, PAVEMENTS, AND CURB AND GUTTER. ANY DAMAGE TO IMPROVEMENTS BY OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 13. CONTRACTOR SHALL FURNISH PLANT MATERIAL FREE OF PESTS OR PLANT DISEASES. CONTRACTOR SHALL WARRANTY ALL PLANT MATERIALS PER THE SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE HEALTHY, VIGOROUS PLANT STOCK GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THE CONDITIONS IN THE LOCALITY OF THE PROJECT.
- 14. SPECIMEN TREES WILL BE SELECTED AND TAGGED BY LANDSCAPE ARCHITECT PRIOR TO PLANT INSTALLATION.
- 15. CONTRACTOR SHALL DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIALS AND SIZES SHOWN ON PLANS
- 16. ALL SUBSTITUTIONS SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- 17. SEE DETAILS AND SPECIFICATIONS FOR STAKING METHOD, PLANT PIT DIMENSIONS AND BACKFILL REQUIREMENTS
- 18. PLANT CROWN ELEVATIONS RELATIVE TO FINISH GRADE ARE SHOWN ON PLANTING DETAILS AND SHALL BE STRICTLY ADHERED TO. PROPER COMPACTION OF BACKFILL TO PREVENT SETTLEMENT SHALL BE **REQUIRED**.
- 19. TREES AND SHRUBS SHALL BE INSTALLED PRIOR TO PLANTING GROUNDCOVER. ALL TREE LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- 20. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST THE LOCATION OF PLANT MATERIAL DURING INSTALLATION AS APPROPRIATE TO THE PROJECT.
- 21. A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUND COVERS, OR DIRECT SEEDING APPLICATIONS WHERE MULCH IS CONTRA-INDICATED. MULCH MUST BE APPROVED BY LANDSCAPE ARCHITECT.

PLANT SCHEDULE

SYMBOL BO

TREES



SHRUBS

 (\mathcal{H}) Corr ۶. Erio Erio $\langle \bullet \rangle$ Mim 4 • 2 Pen

GROUND COV Arct

Ph

SYMBOL BO

GROUND COV Nativ

NATIVE SEED PLAN BOTANICAL NAME Achillea millefolium

Carex divulsa "Berkel Leymus condensatus syrinchium bellum

NOTES: 1- TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE. ROOT BALL MODIFIED AS

REQUIRED. ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT LEAST 12" FROM ROOT BALL PERIPHERY

> BOTTOM OF ROOT BALL RESTS ON 1/4" OF LOOSENED / UN-COMPACTED SOIL



TANICAL NAME	COMMON NAME	SIZE	WATER NEEDS		QTY
er macrophyllum	Big Leaf Maple	15 gal.	Medium		3
elanchier alnifolia	Serviceberry	15 gal.	Medium		3
oulus tremuloides	Quaking Aspen	15 gal.	Medium		3
udotsuga menziesii	Douglas Fir	15 gal.	Low		10
nus sericea	Red Twig Dogwood	1 gal.	Medium		5
gonum fasciculatum	California Buckwheat	1 gal.	Low		15
gonum umbellatum	Sulfur Buckwheat	1 gal.	Low		10
nulus aurantiacus	Bush Monkey Flower	1 gal.	Low		49
stemon heterophyllus	Beardtongue	1 gal.	Low		54
socarpus capitatus	Pacific Ninebark	1 gal.	Medium		5
ERS					
tostaphylos uva-ursi	Bearberry	1 gal.	Low		117
TANICAL NAME	COMMON NAME	SIZE	WATER NEEDS	SPACING	QTY
<u>ERS</u> ive Seed Plant Mix	Native Seed Plant Mix	Seed	Low		1.212 sf

T MIX FOR RAIN GARDEN			
	COMMON NAME		
	Common Yarrow		
ey Sedge"	Berkley Sedge		
'Canyon Prince'	Canyon Prince Giant Wildrye		
	Blue Eyed Grass		

- B. 811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG
- R/S 41-97 NAVD88.
- PROPERTY OWNER.

DETAIL NOTES

- 1) CONCRETE CURB 2) FINISHED GRADE AT MULCH
- 3) 2"-4" DEPTH WOOD CHIPS/MULCH
- 4) GRADE SUB-GRADE SMOOTH AND FREE OF DEBRIS 5) EXISTING SOIL - REMOVE SOIL SUFFICIENT DEPTH BELOW ADJACENT PAVING AND WALLS TO ALLOW PROPER DEPTH OF MULCH INSTALLATION.

GENERAL NOTES:

1) HOLD MULCH 2" BELOW TOP OF ADJACENT CURBS



DETAIL NOTES:

- 1) DG PATHWAY
- 2) LANDSCAPE EDGING WITH STAKES 3) FINISHED GRADE AT MULCH
- 4) 2"-4" DEPTH WOOD CHIPS/MULCH
- 5) GRADE SUB-GRADE SMOOTH AND FREE OF DEBRIS
- ADJACENT PAVING AND WALLS TO ALLOW PROPER DEPTH

OF MULCH INSTALLATION.

З (N.T.S)



3/4" = 1'-0"

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WOOD CHIPS / MULCH - ALONG CONCRETE CURB

6) EXISTING SOIL - REMOVE SOIL SUFFICIENT DEPTH BELOW



WOOD CHIPS / MULCH - ALONG DECOMPOSED GRANITE PATHWAY





OJAI OFFICE

206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023

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- E. REFER TO COVER SHEET FOR LEGEND AND ABBREVIATIONS.
- F. CONTRACTOR TO VERIFY ROOF GUTTER ELEVATIONS ARE ABOVE TANK INLET AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- G. PIPING MATERIAL SHALL BE THE FOLLOWING AND PER PIPE SCHEDULES:G.A. BELOW GROUND: SCHEDULE 40 PVC
- G.B. ABOVE GROUND: SCHEDULE 80 PVC

SHEET NOTES

- 1. UTILIZE EXISTING 4" DIA. (MINIMUM) GUTTER AT 1/8" SLOPE. PROVIDE 4" DOWNSPOUT CONNECTIONS AND FIRST FLUSH ASSEMBLY AND LEAF EATER AT LOCATIONS INDICATED. REFERENCE EQUIPMENT SCHEDULES.
- 2. ROUTE NEW CW LINE TO BFP-1 POC FROM EXISTING WATER METER VALVE TO TANK BELOW GRADE. REFER TO DETAILS FOR TRENCHING REQUIREMENTS.
- 3. 3/4" CW MAKEUP LINE TO TANK SHALL BE INSULATED ABOVE GROUND.
- 4. ROUTE NEW ELECTRICAL LINE FROM EXISTING ELECTRICAL SUB PANEL FOR RAINWATER TANK PUMP AND IRRIGATION CONTROLLER WITH A NEW DEDICATED 20AMP BREAKER AND WEATHER PROOF OUTLET. ALL ELECTRICAL SHALL BE INSTALLED AND ROUTED BY LICENSED ELECTRICIAN. REFERENCE ELECTRICAL SPECIFICATIONS.
- 5. INSTALL RAINWATER INLET AND MAKEUP WATER VALVE AS HIGH AS POSSIBLE.
- 6. RAINWATER OVERFLOW ON TANK SHALL BE INSTALLED AT-LEAST 2" BELOW RAINWATER INLET HEIGHT AND MAKEUP WATER VALVE TO ENSURE AIR GAP.

FIRST FLUSH CALCULATIONS - TANK 1 DOWNSPOUTS

ROOF DRAINAGE CHARACTERISTICS					
ROOF CAPTURE AREA PER DS	1160	FT^2			
1-INCH STORM VOLUME	97	FT^3			
	723	GAL			
FIRST FLUSH DESIGN					
PIPE SIZE	4	IN			
PIPE LENGTH	3	FT			
WATER VOLUME WITHIN PIPE	1.96	GAL			
% VOLUME OF 1-INCH STORM	0.27%	GALLONS			
TOTAL WATER WEIGHT	16.33	LB			

LEGEND

\longrightarrow	(RW) RAINWATER CONVEYANCE
	TRENCH
———— E ————	ELECTRICAL LINE
W	CW MAKEUP WATER LINE
>	(OVC) OVERFLOW CONVEYANCE
	(NPW) NON POTABLE WATER
\bigotimes	DOWNSPOUT
\oplus	POINT OF CONNECTION
	BACKFLOW PREVENTER
M	MAKEUP WATER VALVE
	PUMP
	RAINWATER TANK
	RAINWATER COLLECTION SURFACE

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Twain Harte Community Service District 22912 Vantage Point Dr. Twain Harte, CA 95383

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SHEET NAME:

WATER REUSE PLAN

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WATER REUSE GENERAL NOTES:

A. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE CREATED R. ALL GRAVITY CONVEYANCE PIPES SHALL ENSURE WATER-TIGHT TO REPRESENT THE CONCEPTS AS ASSOCIATED WITH ON-SITE WATER REUSE AND STORM WATER MANAGEMENT / BASIN INSTALLATIONS. FOR ALL SITE DIMENSIONS AND EXACT RELATIVE LOCATIONS, FIELD CONDITION AS-BUILTS SHOULD BE REQUESTED FROM THE PROPERTY OWNER.

B. ABOVE GROUND RAINWATER TANKS:

- B.A. EACH OUTLET SHALL BE MARKED 'CAUTION NON-POTABLE RAINU. GREYWATER DISPERSAL CALCULATIONS AND ASSUMPTIONS AS WELL AS WATER, DO NOT DRINK' IN BLACK, CAPITAL LETTERING.
- TANKS INSTALLED ABOVE GROUND SHALL BE OF AN OPAQUE B.B. MATERIAL OR SHIELDED FROM SUNLIGHT
- B.C. RAINWATER TANKS MUST BE INSTALLED WITH A MEANS OF SUFFICIENT VENTING, DRAINING AND CLEANING, INCLUDING ACCESS FOR CLEANING/INSPECTION
- B.D. OVERFLOW SIZING SHALL MATCH OR EXCEED THE AREA OF ALL THE INFLOW PIPING. BACKFLOW PREVENTION FOR OVERFLOW SHALL BE EQUIPPED IF THE TANK DISCHARGES DIRECTLY TO THE STORM DRAIN SYSTEM
- B.E. ALL TANK INLETS, VENTS AND OVERFLOWS SHALL BE PROTECTED WITH A 1/16" OR SMALLER SCREEN
- B.F. TANK MARKING: TANKS SHALL BE PERMANENTLY MARKED WITH 'NON-POTABLE RAINWATER', PERSONNEL TANK ENTRANCES SHALL BE MARKED 'DANGER-CONFINED SPACE', PER CPC.
- B.G. TANKS AND PIPING INSTALLED IN REGIONS KNOWN TO FREEZE MUST BE PROVIDED WITH APPROVED MEANS OF FREEZE PROTECTION. PROVIDE ABOVE GROUND PIPES WITH 1" INSULATION.
- B.H. RAINWATER CATCHMENT INFLOW PIPING OR CONVEYANCE PIPING MUST HAVE A 'DEBRIS EXCLUDER' INSTALLED TO PREVENT LEAVES, NEEDLES AND SEDIMENT FROM ENTERING THE TANK
- C. RAINWATER PUMPS SERVING RAINWATER CATCHMENT SYSTEMS SHALL BE LISTED (APPROVED BY A LISTING AGENCY FOR EXPECTED USE)
- D. IF THE RAINWATER USE WITHIN A BUILDING EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE SHALL BE INSTALLED TO REDUCE THE PRESSURE TO 80 PSI OR LESS
- D. RAINWATER PIPING SHALL BE MARKED 'CAUTION NON-POTABLE RAIN WATER, DO NOT DRINK' WITH THE INTERNATIONAL DO NOT DRINK SYMBOL OF A CIRCLED WATER GLASS WITH A DIAGONAL SLASH THROUGH IT, PER CPC REQUIREMENTS. REFER TO SAMPLE.
- E. ALL GUTTERS, ROOF DRAINS AND ASSOCIATED PIPING MUST COMPLY WITH RELEVANT CALIFORNIA BUILDING CODES
- F. RAINWATER TREATMENT DEVICES MUST PERFORM TO THE MINIMUM STANDARD DETERMINED BY THE AUTHORITY HAVING JURISDICTION
- G. ALL EQUIPMENT USED FOR RAINWATER QUALITY TREATMENT SHALL BE LISTED OR LABELED BY AN ACCREDITED LISTING AGENCY AND HAVE APPROVAL FOR THE INTENDED PURPOSE
- H. RAINWATER SIGNS IN BUILDINGS MUST FOLLOW THE GUIDELINES OF SECTIONS CPC 1602.10.1 AND 1602.10.2 AND OTHER REQUIREMENTS IN THE CALIFORNIA BUILDING CODE
- I. INPECTION: RAINWATER CATCHMENT SYSTEMS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH CPC SECTIONS 1602.11.1 AND 1602.11.2.
- J. INSPECTION INCLUSIONS: RAINWATER CATCHMENT SYSTEMS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH CODE PROVISIONS FOR TESTING OF POTABLE WATER SYSTEMS AND STORM DRAINAGE SYSTEMS. STORAGE TANKS SHALL BE FILLED WITH WATER TO THE OVERFLOW LINE FOR A PERIOD OF 24 HOURS AND DURING INSPECTION. SEAMS AND JOINTS SHALL BE EXPOSED DURING INSPECTION AND CHECKED FOR WATERTIGHT-NESS.
- K. TRENCHES WILL BE COVERED DURING END OF WORK DAY AND CROSSING BOARDS LAID EVERY 4 FEET DURING WORK DAY. TRENCHES TO BE FILLED IN AND SET PROPERLY.
- L. ALL ABOVE GROUND PIPES SHALL BE PROTECTED FROM HUMAN/ANIMAL TRAFFIC BEFORE, DURING AND AFTER INSTALLATION.
- M. ALL ABOVE GROUND PIPES SHALL RECEIVE INSULATION PER DEFINED PIPE SCHEDULE CRITERIA.
- N. "WET" PLUMBING PIPES/SYSTEMS SHALL BE DRAINED AFTER THE RAINY SEASON.
- O. ALL NON -POTABLE WATER SUPPLY PIPES FROM RAINWATER TANKS AND PUMPS SHALL BE LABELED PER CPC. CH 16.
- P. ALL GRAVITY PIPES SHALL BE INSTALLED AT 1/4" / 1' SLOPE UNLESS OTHERWISE INDICATED.
- Q. ALL BURIED GRAVITY PIPES SHALL HAVE A MINIMUM OF 3" SAND OR PEA GRAVEL AS THEIR BASE.

FITTINGS BY MEANS OF GLUE OR MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITY

- LOCATIONS PRIOR TO EXCAVATION.
- T. ALL VALVES AND DEVICES SHALL BE ANSI/NSF APPROVED, A WITH REFERENCE AND MAINTENANCE INSTRUCTIONS AS LIS PROVIDED MAINTENANCE CONTRACT.
- BASIN DETAILS FOR BASIN SIZING SHALL BE PROVIDED PRIOR TO INSTALLATION.
- V. ALL NEW AND EXISTING PLANTS AND TREES HAVE BEEN SHOWN TO REPRESENT ROUGH/RELATIVE LOCATIONS AND ARE DIAGRAMMATIC. FOR ACCURATE REPRESENTATION OF PLANTS, REFER TO PLANTING DRAWINGS (WHERE PROVIDED)
- W. PLANTS AND TREES ARE EXISTING UNLESS INDICATED OTHERWISE

WATER REUSE SCHEDULES

	MP	ANIE	ΞD
STED	IN	THE	

	PIPE SCHEDULE					
SERVICE	PIPE TAG	SIZE	MATERIAL	INSULATION		
NON-POTABLE WATER SUPPLY	NPW	2" OR	SCHEDULE 40 / 80 PVC:	PROVIDE INSULATION ON ABOVE GROUND PIPES. 1-1/2" FIBERGLASS, ALL-PURPOSE JACKET. COVER WITH METAL PIPE JACKET WHERE EXPOSED TO WEATHER. FIBERGLASS SHALL BE SPLIT SECTIONAL OR SNAP ON TYPE WITH 0.2 PER INCH MAX. THERMAL CONDUCTIVITY (K-FACTOR) AT 75F MEAN		
DOMESTIC WATER	CW	SMALLER	ASTM D1785	TEMP. PROVIDE VAPOR BARRIER JACKET WITH PRESSURE SENSITIVE CLOSURE SYSTEM. JOHNS MANSVILLE MICROLOK HP OR APPROVED EQUAL METAL PIPE JACKET SHALL BE 0.016-INCH THICK ALUMINUM WITH FORMED FITTING COVERS, ALUMINUM SNAP STRAPS AND SEALANT		
	RW	4" OR	SCHEDULE 40 PVC: ASTM			
CONVEYANCE	OVC	SMALLER	D1785.	FOR FREEZE FROTECTION, STOTEM SHALL DE DRAINED.		

APPLICABLE CODES AND REGULATIONS

1. CALIFORNIA PLUMBING CODE 2. CALIFORNIA BUILDING CODE

RAINWATER TANK SCHEDULE						
			TOTAL VOL. EACH TANK			
TAG NUMBER	LOCATION	(GROSS GAL.) QTY		DIMENSIONS		
TANK-1	CSD SHED	5,000	(1) @ 5,000	8' H. x 10'-9" DIA.	BUSHMAN POLY 5050 OR APPROVED EQUAL	

PUMP SCHEDULE								
			PERFORMANCE					
TAG NUMBER	DESCRIPTION	LOCATION	MAX PUMP HEAD	POWER		MAKE, MODEL	QTY	
			(FT)	(TOTAL HP)	FRASE			
PUMP-1	SUBMERSIBLE RW PUMP	CSD SHED	220	1/2	120/1	RAIN BROTHERS, TRARDITIONAL SPRINGER SERIES CISTERN PUMP WITH FLOATING INTAKE VALVE	1	

	EQUIPMENT SCHEDULE					
TAG NUMBER	LOCATION	DESCRIPTION	QTY			
GT-1	GUTTER	RECTANGULAR STEEL GUTTER. REFER TO PLANS FOR LENGTH, 4-INCH DIA.	SEE PLANS			
CO-1	GRAVITY PIPING SYSTEMS	2-WAY CLEAN OUT COMBO TEE WITH THREAD ADAPTER AND PLUG SIMILAR TO: 2", ABS, CANPLAS	1			
	ALL DOWNSPOUTS	DOWNSPOUT FILTER: COMMERCIAL ZINCALUME STEEL RAINHARVEST 4" LEAF EATER ADVANCED DOWNSPOUT FILTER OR APPROVED EQUAL.	2			
05-1	SYSTEMS	TANK-1: RAINHARVESTING FIRST FLUSH ASSEMBLY DIVERTER WITH ACUATOR RELIEF VALVE) OR APPROVED EQUAL	1			
MV-1	(1) PER TANK SYSTEM	MAKE UP WATER VALVE: 3/4" RAINAID OR APPROVED EQUAL	1			
BF-1	CSD SHED	BACKFLOW PREVENTER:3/4"ZURN 375-XL REDUCED PRESSURE BACKFLOW ASSEMBLY OR APPROVED EQUAL	1			

	SIZING	TABLE 1101.8 OF HORIZONTAL RAINWAT (COMBINED SYSTEM) ESIGN RAINFALL RATE = 3 INCHE	ER PIPING	
SIZE OF PIPE		DESIGN SLOPE = 1/8-INCH/FOOT	Γ	DESIGN SLOPE = 1/4-INCH/FOOT
INCHES	FLOW	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS	FLOW	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS
	GPM	SQ. FT.	GPM	SQ. FT
3	34	1,096	48	1,546
4	78	2,506	110	3,533
6	222	7,133	314	10,066
8	478	15,330	677	21,733
10	860	27,600	1,214	38,950
12	1,384	44,400	1,953	62,600
15	2,473	79,333	3,491	112,000
	SIZE OF PIPE INCHES 3 4 6 8 10 12 15	SIZING SIZE OF PIPE INCHES FLOW GPM 3 3 3 34 4 78 6 222 8 478 10 860 12 134 15	TABLE 1101.8 SIZING OF HORIZONTAL RAINWAT (COMBINED SYSTEM)DESIGN RAINFALL RATE = 3 INCHESIZE OF PIPEDESIGN SLOPE = $1/8$ -INCH/FOOTINCHESFLOWMAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREAS3341,0964782,50662227,133847815,3301086027,600121,38444,400152,47379,333	TABLE 1101.8 SIZING OF HORIZONTAL RAINWATER PIPING (COMBINED SYSTEM)DESIGN RAINFALL RATE = 3 INCHES/HRSIZE OF PIPEDESIGN SLOPE = $1/8$ -INCH/FOOTINCHESNCHESFLOWMAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREASFLOWGPMSQ. FT. (100)GPM3341,096484782,50611062227,133847815,3306771086027,6001,214121,38444,4001,953152,47379,3333,491

PIPE SIZING

PRESSURIZED WATER PIPING:

BASIS OF DESIGN: 2023 CALIFORNIA PLUMBING CODE, APPENDIX A 'RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM'. PIPING SIZED ON 3 PSI/100 FT. DROP, VELOCITIES NOT TO EXCEED 8 FT./SEC.

ROOF DRAIN/STORM DRAIN PIPING SYSTEM: BASIS OF DESIGN: 2023 CALIFORNIA PLUMBING CODE, CHAPTER 11, 'STORM DRAINAGE'. STORM DRAIN PIPING SIZED AT 1/8"/FT. SLOPE UNLESS OTHERWISE NOTED AND A RAINFALL RATE OF 1.5"/HR TRADITIONAL SYSTEM 3"/HR FOR A COMBINED PRIMARY AND OVERFLOW SYSTEM.

GREYWATER/WASTE/VENT PIPING SYSTEM:

BASIS OF DESIGN: 2023 CALIFORNIA PLUMBING CODE, CHAPTER 7, 'SANITARY DRAINAGE'. ALL WASTE PIPING SIZED AT 1/4"/FT. SLOPE UNLESS OTHERWISE NOTED.

TERSA WATERSHED PROGRESSIN WWW.WATERSHEDPROGRESSIVE.COM 209.732.0018 CENTRAL SIERRA OFFICE 18653 MAIN STREE

GROVELAND, CALIFORNIA 9532 OJAI OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023



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DATE: PBOJECT NO	
REVISION	DATE
1 60% SUBMITTAL	06.06.24
2100% SUBMITTAL	06.26.24
3100% SUBMITTAL v2	07.05.24
4100% SUBMITTAL v3	08.09.24
5	
6	
DESIGN BY: MS	
DRAWN BY: MS	
REVIEW BY: NS	

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SHEET NAME:

WATER REUSE EQUIPMENT SCHEDULES





- 1) ACTIVATOR FLOAT ADJUST LINE LENGTH
- 2) SWING ARM ACTIVATOR
- 5) 3/4" PVC SCH. 40 UNION FPT

- INSTALL W/ BALL VALVE HOUSING HANDLE TO FACE DOWNHILL SLOPE OF
- 9) $\frac{3}{4}$ PVC SCH. 40 SPRING CHECK VALVE FPT
- 10) $\frac{3}{4}$ " X 2" LONG PVC SCH. 80 NIPPLE MPT
- 11) $\frac{3}{4}$ " PVC SCH. 40 UNION FPT
- 12) $\frac{3}{4}$ PVC SCH. 40 MALE THREAD ADAPTER
- **RAINWATER / MUNICIPAL MAKEUP WATER ASSEMBLY**



NOTING "NON-POTABLE WATER" ALL IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE CHAPTER 16.

- - B. SEE BACK FLOW PREVENTION DEVICE DETAIL FOR REFERENCE.

 - C. LOCK BOX SHALL BE LOCATED ABOVE CONCRETE FOOTING.
- - D. LOCK TO BE PROVIDED BY CONTRACTOR OR AS APPROVED BY OWNER.
- CONCRETE THRUST BLOCKS GALVANIZED NIPPLES AND ELL AS REQUIRED 4) GALVANIZED RISERS

DETAIL NOTES:

GALVANIZED UNIONS AT EACH SIDE 7) 4" THICK MINIMUM CONCRETE PAD 8) GALVANIZED ELL AND NIPPLE, TYPICAL 9) PVC COUPLER OR REDUCER AS REQUIRED, TYPICAL

2) BACK FLOW ENCLOSURE AS SPECIFIED

1) REDUCED PRESSURE BACK FLOW DEVICE AS SPECIFIED

3



- A. BIO-SWALE ALIGNMENT MAY BE STRAIGHT OR
- MEANDERING, DEPENDING ON AVAILABLE SPACE. B. TREES AND SHRUBS SHOULD BE LOCATED AN
- APPROPRIATE DISTANCE FROM THE SWALE BASED ON SPECIES' TOLERANCE OF SATURATED SOIL CONDITIONS.
- C. USE OF GRAVEL / RIVER ROCK /MULCH AND SWALE
- DEPTHS TO BE VERIFIED ON-SITE. D. SPOT AMEND PLANTS WITH A MIX OF COMPOST AND
- NATIVE SOIL. E. MAXIMUM 3:1 SLOPE





DETAIL NOTES:



BIO-SWALE + RAINWATER OVERFLOW DISCHARGE (TYP.)



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PROJECT NO.

1 60% SUBMITTAL

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DRAWN BY: MS

REVIEW BY: NS

SHEET NAME:

SHEET NO .:

2100% SUBMITTAL 06.26.24

3100% SUBMITTAL v2 07.05.24

4100% SUBMITTAL v3 08.09.24

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WATER REUSE

DETAILS

06.06.24

REVISION





A. PROVIDE REDUCED PRESSURE BACK FLOW PREVENTER OF ANY EXISTING WELL WATER CONNECTION TO NEW OUTLET / FIXTURE.

IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE 2022 CHAPTER 15 AND 16 UNIONS TO BE PLACED AS NEEDED (EASE OF MAINTENANCE + REPLACEMENT)

REDUCED PRESSURE BACK FLOW PREVETER TO BE TESTED BY QUALIFIED TECHNICIAN.

REDUCED PRESSURE BACKFLOW DEVICE

W6.2





RAINWATER POLY TANK GRAVEL PAD

(N.T.S)



D. RAINWATER CISTERN PAD LAYOUT AND DIMENSIONS TO BE STAKED OUT AND VERIFIED PRIOR TO GRAVEL BASE FILL & COMPACTION. E. REFERENCE TANK MANUFACTURER PAD SPECIFICATIONS AS NEEDED.

District Service Community antage Point Dr. Twain Ha rte 12 Va Hai Twain

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WATERSHED PROGRESSIVE WWW.WATERSHEDPROGRESSIVE.COM 209.732.0018

CENTRAL SIERRA OFFICE 18653 MAIN STREET GROVELAND, CALIFORNIA 95321

OJAI OFFICE 206 N. SIGNAL ST., SUITE S OJAI, CALIFORNIA 93023

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