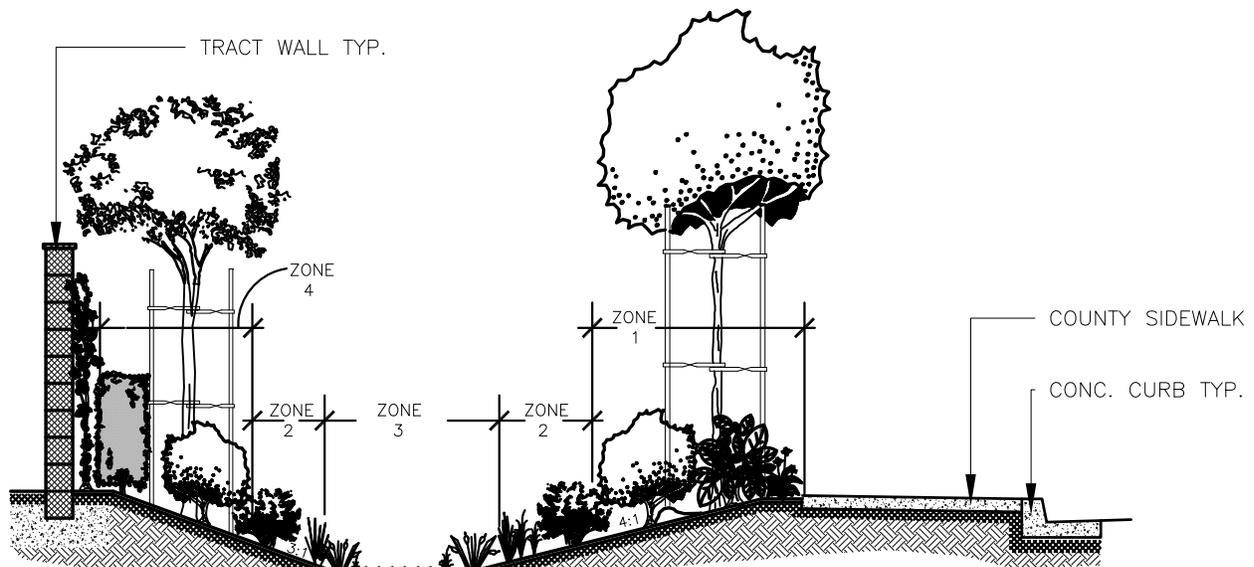




# Valley-Wide Recreation & Park District Water Quality Swale Details

<b>Detail No.</b>	<b>Detail Description</b>	<b>Drawing Name</b>
WQ-01	Parkway Planting Section View	WQ-01-2012.dwg
WQ-02	Parkway planting Plan View	WQ-02-2012.dwg
WQ-03	Water Quality Swale Plant List	WQ-03-2012.dwg
WQ-04	Parkway Irrigation Plan View	WQ-04-2012.dwg
WQ-05	Parkway Irrigation Section View	WQ-05-2012.dwg



FILTER FABRIC PER  
CALTRANS STD 88-1.03

GRAVEL LAYER CALTRANS 25MM  
COARSE AGGREGATE PER 90-3.02

BIO-SWALE PER RCFC&WCD DRAWINGS  
WITH A 5% MAX AND 0.5% MIN.  
LONGITUDINAL SLOPE

2/3 CALTRANS FINE AGGREGATE (SAND) PER 90-3.03  
1/3 PEAT OR WELL ROTTED COMPOST MIX

6" DIA. PERFORATED PIPES UNDER DRAIN CONNECTED TO  
OUTLET DRAIN. ADDITIONAL PIPES REQ'D. WHEN WIDTH  
EXCEEDS 6 FT. CLEAN-OUT WYES REQ'D. AT UP AND DOWN  
STREAM ENDS AND AT 50 FT. MAX. SPACING

NOTES:

1. REFER TO VALLEY-WIDE PLAN ZONE PLANT PALLETTE FOR RECOMMENDED PLANT SPECIES.
2. ALL TREES MUST BE LOCATED AT LEAST 36" OUTSIDE OF TOE OF BIO-SWALE.
3. ALL PLANT MATERIAL SHALL COMPLY WITH THE MSHCP PLANT LIST OF AVOIDABLE INVASIVE SPECIES.
4. ALL BIO-SWALES SHALL BE IRRIGATED WITH POINT-TO-POINT LOW VOLUME IRRIGATION PER BIO-SWALE IRRIGATION DETAIL. NO OVER-HEAD CONVENTIONAL SPRAY IRRIGATION WILL BE ALLOWED.
5. PLANTING SHALL NOT OCCUR WHEN MOISTURE LEVELS EXCEED NORMAL PLANTING CONDITIONS. AND INTERIM DRAIN LINE CAN BE INSTALLED TO REMOVE EXCESSIVE WATER CONTENT IF NEEDED DURING THE FIRST PLANTING SEASON ONLY. ALL MEANS OF WATER REMOVAL MUST COMPLY THE GOVERNING WATER BOARD REGULATIONS.
6. ALL BIO-SWALE GRADES AND DRAINAGE MUST BE APPROVED IN WRITTING BY VALLEY-WIDE RECREATION AND PARK DISTRICT PRIOR TO ANY IRRIGATION OR PLANTING.
7. DUE TO THE DENSITY OF PLANTING AND WATER FLOW, ZONES 2 AND 3 WILL NOT REQUIRE BARK MULCH. 4" DEEP BARK MULCH WILL BE REQUIRED FOR ALL OTHER ZONES.
8. STORM WATER SHALL NOT BE DIRECTED TO SWALE UNTIL ALL UPSTREAM AREA HAS BEEN COMPLETELY STABILIZED FOR EROSION AND SILTATION CONTROL AND VEGETATION HAS BEEN ESTABLISHED. IF A BIOFILTRATION SWALE IS PUT INTO OPERATION BEFORE ALL CONSTRUCTION IN THE DRAINAGE AREA OF THE SWALE IS COMPLETE, THE SWALE MUST BE CLEANED OF SEDIMENT PRIOR TO ACCEPTANCE. FINANCIAL GUARANTEES WILL NOT BE RELEASED IF SWALES ARE NOT RESTORED AND VIGOROUS PLANT GROWTH IS ESTABLISHED.

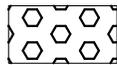
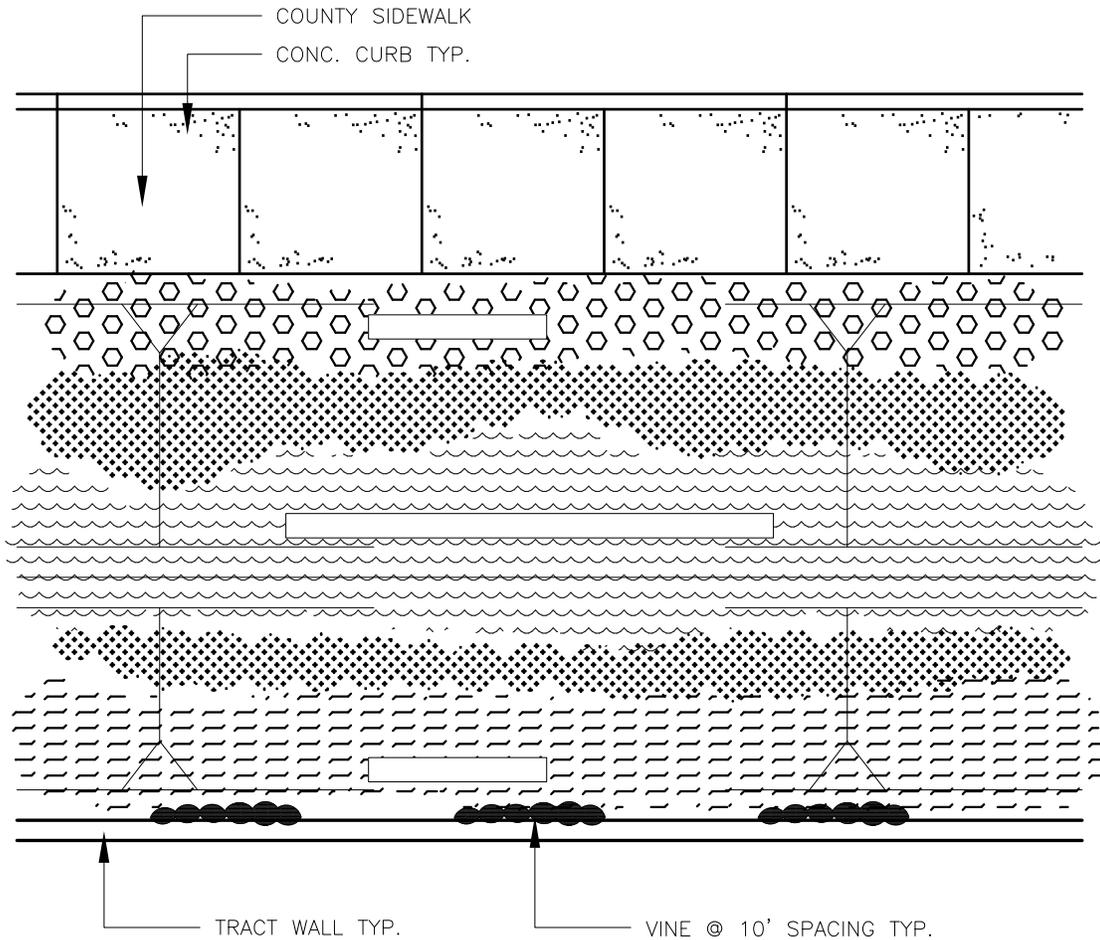
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VALLEY-WIDE RECREATION & PARK DISTRICT

PARKWAY PLANTING SECTION VIEW

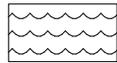
WQ-01  
REV. 2012



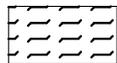
ZONE 1      STANDARD PERENNIAL FLOWERS & SHRUBS  
PER VALLEY-WIDE STD. PLANT PALLETTE



ZONE 2      SEE BIO-SWALE ZONE 2 PLANT PALLETTE  
24" - 36" TYPICAL PLANT SPACING



ZONE 3      SEE BIO-SWALE ZONE 3 PLANT PALLETTE  
12" - 24" TYPICAL PLANT SPACING



ZONE 4      STANDARD ORNAMENTAL SHRUBS, SCREEN HEDGES & VINES  
PER VALLEY-WIDE STD. PLANT PALLETTE

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VALLEY-WIDE RECREATION & PARK DISTRICT

PARKWAY PLANTING PLAN VIEW

WQ-02

REV. 2012

## ZONE 2 PLANT PALETTE

BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH
ALOPECURUS PRATENSIS	YELLOW FOXTAIL GRASS	12"	18"
CALAMAGROSTIS ACUTIFLORA	FEATHER REED GRASS	30"	36"
CAREX BUCHANANII	LEATHER LEAK SEDGE	36"	30"
CAREX CONICA	SNOWLINE SEDGE	12"	24"
CAREX FLACCA	BLUE SEDGE	24"	24"
CAREX FLAGALLIFERA	NEW ZEALAND SEDGE	30"	30"
CAREX MARROWII EXPALLIDA	VARIEGATA JAPANESE SEDGE	12"	18"
CAREX TESTACEA	NEW ZEALAND SEDGE	24"	60"
DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	18"	24"
DESCHAMPSIA FLEXUOSA	CRINKLED HAIR GRASS	12"	24"
ELYMUS MAGELLANICUS	MAGELLAN WHEATGRASS	18"	18"
FESTUCA IDAHOENSIS	FESCUE	12"	12"
HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	30"	30"
IMPERATA CYLINDRICA RUBRA	JAPANESE BLOOD GRASS	18"	12"
MISCANTHUS SINENSIS	JAPANESE SILVER GRASS	30"	30"
NASSELLA TENUISSIMA	MEXICAN FEATHER GRASS	30"	30"
PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	40"	40"
PENNISETUM SETACEUM RUBRUM	RED FOUNTAIN GRASS	40"	40"
POA PRATENSIS	KENTUCKY BLUE GRASS	12"	12"
SPARTINA PECTINATA	PRAIRIE CORD GRASS	60"	36"
STIPA SPECIES	FEATHER GRASS	24"	24"

## ZONE 3 PLANT PALETTE

BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH
CAREX ELATA 'AUREA'	BOWLES GOLDEN SEDGE	24"	18"
CAREX SPISSA	SAN DIEGO SEDGE	36"	36"
CHONDROPETALUM TECTORUM	CAPE RUSH	36"	36"
CYPERUS ALTERNIFOLIUS	UMBRELLA PLANT	36"	36"
EQUISETUM HYEMALE	HORSETAIL	36"	24"
JUNCAS PATENS	CALIFORNIA GRAY RUSH	24"	24"
JUSTICA BELOPERONE GUTTATA	SHRIMP PLANT	24"	24"
MILIUM EFFUSUM AUREUM	BOWLES GOLDEN GRASS	24"	24"
MOLINIA CAERULEA VARIEGATA	MOOR GRASS	18"	18"
MUHLENBERGIA RIGENS	DEER GRASS	36"	48"
PANICUM VIRGATUM	SWITCH GRASS	48"	24"
SCIRPUS CERNUUS	FIBER OPTICS PLANT	12"	20"
SISYRINCHIUM CALIFORNIA	YELLOW-EYED GRASS	24"	10"

MOST SPECIES LISTED ARE CONTRACT GROWN ONLY. ARCHITECT MUST PROVIDE PLANT SOURCE AND LEAD TIMES AND INDICATE ON PLANS TO INSURE AVAILABILITY.

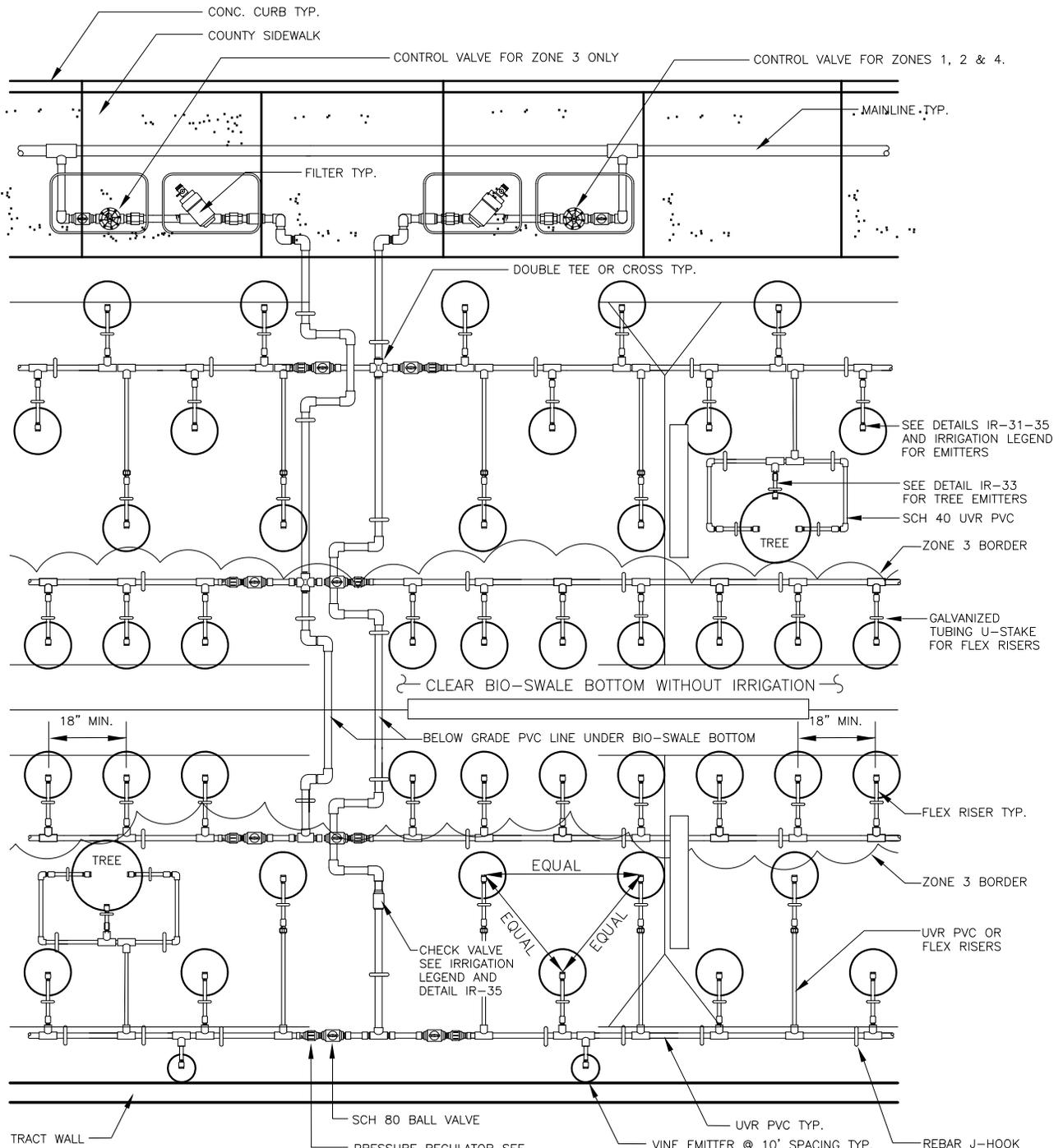
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**VALLEY-WIDE RECREATION & PARK DISTRICT**

**WQ-03**

**REV. 2012**



NOTES:

1. LOWER PORTIONS OF BIO-SWALE SHALL BE IRRIGATED WITH A SEPARATE CONTROL VALVE FOR MOISTURE CONTROL.
2. IRRIGATION FOR EACH SIDE OF CHANNEL BOTTOM OUTSIDE OF ZONE 3 SHOULD BE CONNECTED TOGETHER.
4. MAINLINE LOCATION IS SHOWN FOR CLARITY ONLY, ALL VALVES AND MAINLINE MUST COMPLY WITH DETAILS IR-02, IR-07 AND IR-08.
5. ALL IRRIGATION MUST CONFORM TO VALLEY-WIDE LOW-VOLUME IRRIGATION DETAILS.
6. SLEEVES FOR CHANNEL CROSSING MUST BE INSTALLED UNDER LOW-FLOW DRAIN LINE.

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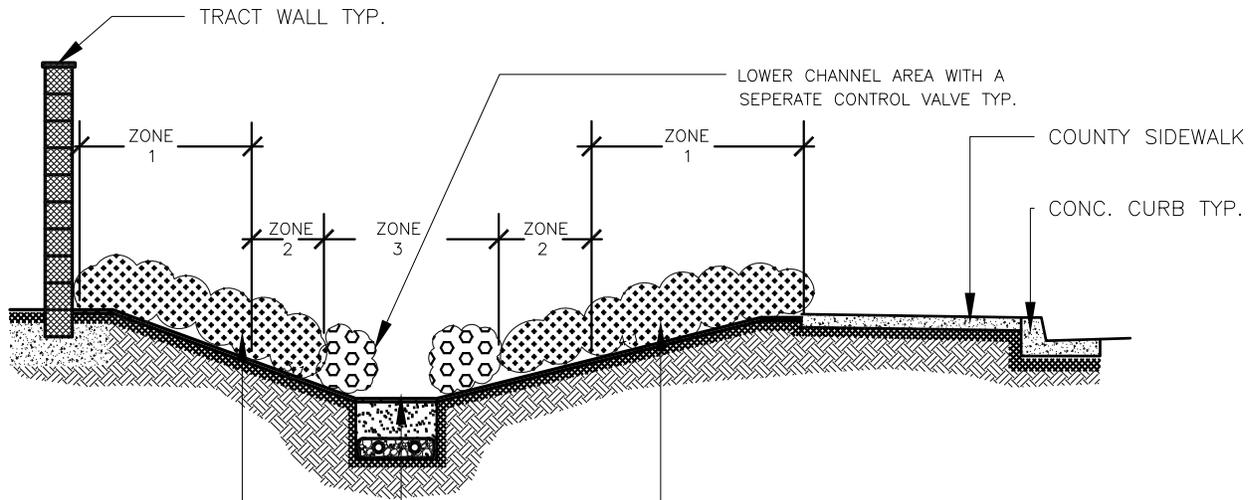


# VALLEY-WIDE RECREATION & PARK DISTRICT

## PARKWAY IRRIGATION PLAN VIEW

WQ-04

REV. 2012



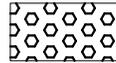
PARKWAY AREA IRRIGATED WITH THE TYPICAL LOW VOLUME CONTROL VALVE CONNECT LATERALS TOGETHER ON ONE CONTROL VALVE WHERE POSSIBLE.

CLEAR BIO-SWALE BOTTOM WITHOUT IRRIGATION FOR EASY DE-SILTING OPERATION. CLOSE PLACEMENT OF LOW-VOLUME IRRIGATION EMITTERS AS SHOWN IN PLAN VIEW DRAWINGS WILL PROVIDE SATURATION AS NEEDED TO PROVIDE SUFFICIENT MOISTURE LEVELS FOR GRASSES DURING INITIAL ESTABLISHMENT AND DRY PERIODS.



ZONES 1, 2 & 4

REFER TO PLAN VIEW DRAWING FOR EXACT EMITTER LAYOUT  
24" - 36" TYPICAL EMITTER SPACING PER PLANTING LAYOUT



ZONE 3

REFER TO PLAN VIEW DRAWING FOR EXACT EMITTER LAYOUT  
12" - 24" TYPICAL EMITTER SPACING PER PLANTING LAYOUT

NOTES:

1. ALL CHANNEL BOTTOMS SHALL BE IRRIGATED WITH A SEPERATE CONTROL VALVE FOR MOISTURE CONTROL.
2. IRRIGATION FOR EACH SIDE OF CHANNEL BOTTOM OUTSIDE OF ZONE 3 SHOULD BE CONNECTED TOGETHER.
4. ALL BIO-SWALES SHALL BE IRRIGATED WITH POINT-TO-POINT LOW VOLUME IRRIGATION AS INDICATED. OVERHEAD CONVENTIONAL SPRAY IRRIGATION WILL BE ALLOWED UNLESS APPROVED IN WRITING.
5. ALL IRRIGATION MUST CONFORM TO VALLEY-WIDE LOW-VOLUME IRRIGATION DETAILS.
6. ALL BIO-SWALE GRADES AND DRAINAGE MUST BE APPROVED IN WRITING BY VALLEY-WIDE RECREATION AND PARK DISTRICT PRIOR TO ANY IRRIGATION OR PLANTING.
7. DRAWINGS INDICATE ABOVE GRADE PIPING, ALTHOUGH BELOW GRADE PIPING IS ALSO ACCEPTABLE.

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VALLEY-WIDE RECREATION & PARK DISTRICT

PARKWAY IRRIGATION SECTION VIEW

WQ-05  
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