



- ① SIDEWALK/HARDSCAPE PER PLANS
- ② CURB AND GUTTER PER PLANS
- ③ SUBGRADE COMPACTED PER GEOTECH REPORT
- ④ 2/3 WASHED SAND AND 1/3 PEAT 18" - 36" DEEP
- ⑤ APPROVED FILTER FABRIC SURROUNDING GRAVEL
- ⑥ 4" TO 6" DIA. PERFORATED PIPES CONNECTED TO OUTLET DRAIN OR DAYLIGHT INTO LANDSCAPE PER APPROVED PLANS
- ⑦ 3/4" CRUSHED GRAVEL LAYER
- ⑧ 6" X 6" CONC. HEADER (PER STD H-004) ALIGNED WITH Z2
- ⑨ WALL / FENCE PER PLANS (WHERE APPLICABLE)

**NOTES:**

1. REFER TO SWALE PLANT PALETTE FOR ZONE APPROVED PLANTS
2. ALL TREES MUST BE LOCATED AT LEAST 24"-36" FROM THE HEADER
3. ALL BIO-SWALE GRADES AND DRAINAGE MUST BE APPROVED IN WRITING BY COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT PRIOR TO ANY IRRIGATION OR PLANTING
4. DUE TO THE DENSITY OF PLANTING AND WATER FLOW ZONES 2 AND 3 WILL NOT REQUIRE BARK MULCH. 3" DEEP BARK MULCH WILL BE REQUIRED FOR OTHER ZONES.
5. CONCRETE HEADER INSTALLATION IS REQUIRED WITH SPREADING / CREEPING PLANT VARIETIES ONLY AND WILL BE REVIEWED BY LMD REPRESENTATIVE

	RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS		DATE: 02-05-13
	<b>BIO-SWALE GRADING / PLANTING</b>		
SECTION	APPROVED BY: MPH		
STD. B-001	1/4" = 1'-0"	REV:	

# HYDROZONE 2 PLANT PALETTE



BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH
CALAMAGROSTIS ACUTIFLORA	FEATHER REED GRASS	30"	36"
CAREX BUCHANANII	LEATHER LEAF SEDGE	36"	30"
CAREX FLACCA	BLUE SEDGE	24"	24"
CAREX FLAGELLIFERA	NEW ZEALAND SEDGE	36"	30"
CAREX TESTACEA	NEW ZEALAND SEDGE	24"	36"
DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	18"	24"
DESCHAMPSIA FLEXUOSA	CRINKLED HAIR GRASS	24"	12"
ELYMUS MAGELLANICUS	MAGELLAN WHEATGRASS	18"	18"
FESTUCA IDAHOENSIS	FESCUE	14"	10"
IMPERATA CYLINDRICA RUBRA	JAPANESE BLOOD GRASS	18"	12"
ISOCOMA MENZIESII	GOLDENBUSH	12"	24" - 36"
LEYMUS CONDENSATUS 'CANYON PRINCE'	GIANT WILD RYE	48"	36"
MISCANTHUS SINENSIS (SEE NOTE #3 BELOW)	SILVER GRASS (VARIOUS)	36" MAX	
MUHLENBERGIA RIGENS	DEER GRASS	36"	48"
SPOROBOLUS AIROIDES	ALKALI SACATON	36"	36"

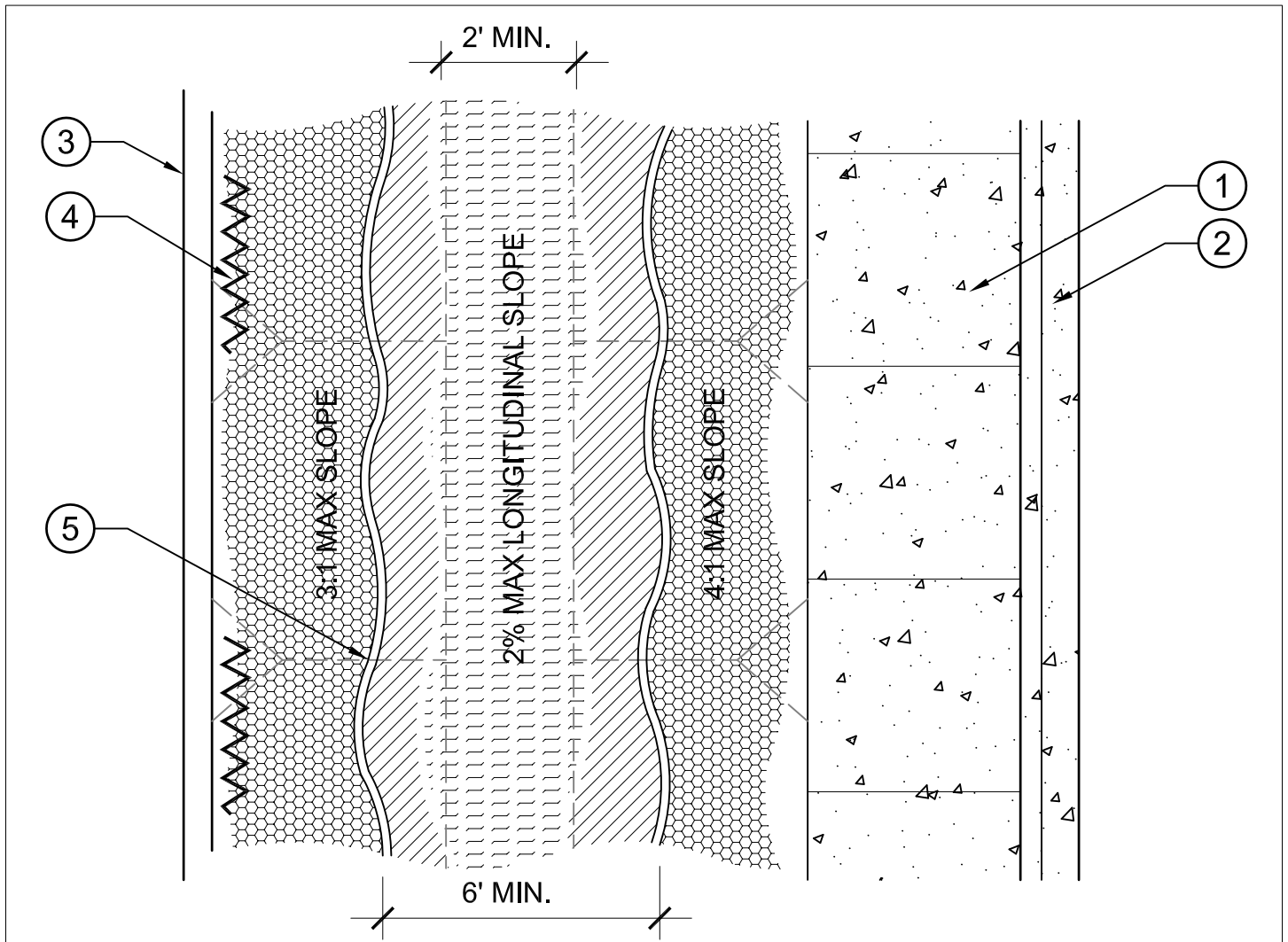
# HYDROZONE 3 PLANT PALETTE

BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH
ANEMOPSIS CALIFORNICA	YERBA MANSA	6"	12" - 36"
ARTEMISIA DOUGLASIANA	MUGWORT	36"	36"
CAREX ELATA 'AUREA'	BOWLES GOLDEN SEDGE	24"	18"
CAREX PANSA	DUNE SEDGE	6"	SPREADING
CAREX SPISSA	SAN DIEGO SEDGE	36" - 48"	36" - 48"
CAREX TUMULICOLA	BERKELEY SEDGE	12" - 24"	12" - 24"
CHONDROPETALUM TECTORUM	CAPE RUSH	36"	36"
JUNCUS PATENS	CALIFORNIA GRAY RUSH	24"	24"
LEYMUS TRITICOIDES	CREEPING WILDRYE	24" - 48"	SPREADING
LUPINUS SUCCULENTUS	ARROYO LUPINE	18" - 36"	18" - 36"
MILIUM EFFUSUM AUREUM	BOWLES GOLDEN GRASS	24"	24"
MOLINA CAERULEA VARIEGATA	MOOR GRASS	18"	18"
SCIRPUS CERNUUS	FIBER OPTICS PLANT	12"	20"
SISYRINCHIUM CALIFORNICUM	GOLDEN EYED GRASS	24"	10"

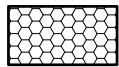
**NOTES:**

1. ZONE 3 SHALL HAVE FIVE (5) SPECIES MAXIMUM FROM THE ZONE 3 LIST
2. ZONE 2 MAY USE THE SAME MIX WITH THREE (3) SPECIES FROM THE ZONE 2 LIST ADDED
3. ANY MISCANTHUS SINENSIS CULTIVARS USED MUST NOT HAVE A MATURE HEIGHT OVER 3'.

	RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS		DATE: 02-05-13	
	<h2>BIO-SWALE PLANTING</h2>			
	PLANT PALETTE	APPROVED BY: MPH		
	STD. B-002	NO SCALE	REV:	



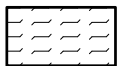
- ① SIDEWALK PER APPROVED PLANS
- ② CURB AND GUTTER PER APPROVED PLANS
- ③ WALL / FENCE PER APPROVED PLANS (WHERE APPLICABLE)
- ④ VINE AT 20' SPACING TYPICAL
- ⑤ 6" X 6" CONC. HEADER (PER STD H-004) ALIGNED WITH Z2



**HYDROZONE 1**  
STANDARD ORNAMENTAL SHRUBS PER RIVERSIDE CALIFORNIA FRIENDLY PLANT LIST

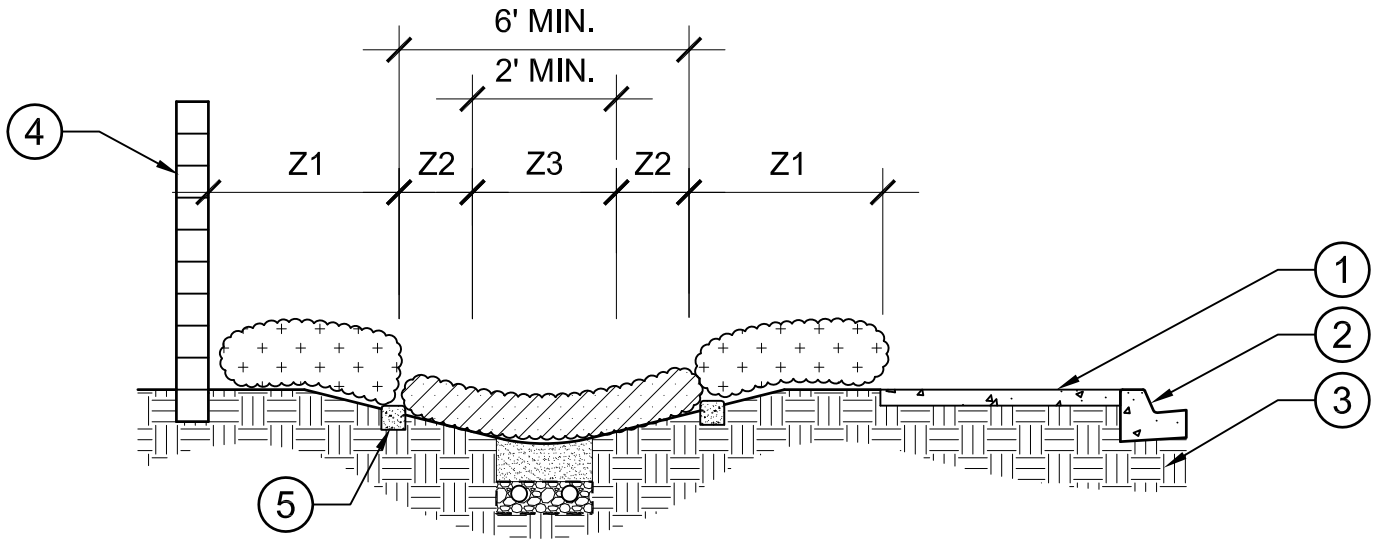


**HYDROZONE 2**  
SEE BIO-SWALE ZONE 2 PLANT PALETTE, 24" - 36" TYPICAL SPACING

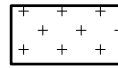


**HYDROZONE 3**  
SEE BIO-SWALE ZONE 3 PLANT PALETTE, 12" - 24" TYPICAL SPACING

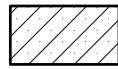
	RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS		DATE: 02-05-13
	<b>BIO-SWALE GRADING &amp; PLANTING</b>		
PLAN	APPROVED BY: MPH		
STD. B-003	NO SCALE		
		REV:	



- ① SIDEWALK PER APPROVED PLANS
- ② CURB AND GUTTER PER APPROVED PLANS
- ③ SUBGRADE COMPACTED PER GEOTECH REPORT
- ④ WALL / FENCE PER APPROVED PLANS (WHERE APPLICABLE)
- ⑤ 6" X 6" CONC. HEADER (PER STD H-004) ALIGNED WITH Z2





**HYDROZONE 1**  
STANDARD ORNAMENTAL SHRUBS PER RIVERSIDE CALIFORNIA FRIENDLY PLANT LIST



**HYDROZONES 2, 3**  
SEE BIO-SWALE PLANT PALETTE, 24" - 36" TYPICAL SPACING

**NOTES:**

1. ALL CHANNEL BOTTOMS SHALL BE IRRIGATED WITH A SEPARATE CONTROL VALVE FOR MOISTURE CONTROL
2. IRRIGATION FOR EACH SIDE OF BIOSWALE BOTTOM OUTSIDE OF HYDROZONE 3 SHOULD BE CONNECTED TOGETHER
3. ALL BIO-SWALES SHALL BE IRRIGATED WITH POINT-TO-POINT LOW VOLUME IRRIGATION AS INDICATED. NO OVER-HEAD CONVENTIONAL SPRAY IRRIGATION WILL BE ALLOWED UNLESS APPROVED IN WRITING
5. ALL IRRIGATION MUST CONFORM TO COUNTY OF RIVERSIDE LOW-VOLUME IRRIGATION DETAILS
6. ALL BIO-SWALE GRADES AND DRAINAGE MUST BE APPROVED IN WRITING BY COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT PRIOR TO ANY IRRIGATION OR PLANTING
7. DRAWINGS INDICATE ABOVE GRADE PIPING, ALTHOUGH BELOW GRADE PIPING IS ALSO ACCEPTABLE
8. CONCRETE HEADER INSTALLATION IS REQUIRED WITH SPREADING / CREEPING PLANT VARIETIES ONLY AND WILL BE REVIEWED BY LMD REPRESENTATIVE

	RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS		DATE: 02-05-13
	<b>BIO-SWALE IRRIGATION ZONING</b>		
SECTION	APPROVED BY: MPH		
STD. B-004	1/4" = 1'-0"	REV:	