

1. VERTICAL GRADE: The following grades shall be observed:

- 0.-5% optimum
- 10% maximum for distances over 500 feet.
- 15% maximum for distances limited to 500 feet or less.
- 20% maximum permitted only in extreme cases and for short distances under 100 feet, and only in cases where no vehicle access is to be expected.

2. CROSS SECTION: 2-4% optimum, 6% maximum in approved location only.

3. DRAINAGE: Where trail gradient exceeds 4%, water bars, splash curbs or other diversionary devices may be required. Location of drainage devices to be reviewed and approved by the Trails Advisory Committee. Decomposed granite stabilizer shall be used. Stabilizer shall be from Gail Materials, Inc. or approved equal.

4. SIDE SLOPE CUTS and FILL: 2:1 maximum; 2% maximum between curb and trail. 5:1 max. turf & 3:1 max. shrubs/ground cover behind trail. Occasional slope variations will be considered on a case by case basis and will require approval by the City Engineer.

5. SURFACING: Trail surface shall be stabilized decomposed granite with 4 inch minimum base. Remove rocks and debris and grade surface smooth. Stabilized d.g. is available from Gail Materials (951) 667-6106 or approved equivalent. Stabilizer organic binder shall be incorporated with granite fines by the use of a pug mill to insure proper ration of stabilizer to granite fines. For each 2" lift, evenly spread the material over the area, grade and smooth. Thoroughly water entire area to ensure that the entire depth is moist. Roll the area with 1000-3000 lbs. of weight. Prior to use allow the finished surface sufficient time to dry. On the side to which the water drains, build up the compacted d.g. to a finished surface of 1/4"-1/2" above concrete curb, allowing the water to drain over concrete curb into adjacent planting area.

6. CLEARANCE: All trees shall maintain a 10 foot minimum clearance. Adequate sight distance to be maintained at all intersections and drive approaches. Fence line shall end 10 feet back of the B.C.R. or E.C.R. in 20 foot easements. In smaller easements, determination should be made case by case. Fence line shall end 5 feet back from the top of the "X" at drive approaches. Adequate access to utilities should be maintained. Fence line shall end 2 feet to either side of fire hydrant and 1 foot to either side of any street light or utility pole.

7. FLOOD and DRAINAGE CHANNEL CROSSING: Where trail must cross existing or proposed drainage channels, the continuity of the trail shall be maintained by the construction of an appropriate crossing such as a bridge, ramp way, culvert etc. Wood or transverse "medium broom" finish concrete shall be used to prevent slipping (no metal surfaces permitted). Natural streambed crossings should be left as natural as possible.

8. TRAIL ENTRANCE: Trail entrances shall be designed to provide for equestrian, pedestrian/hiking use and shall discourage motor vehicle and motorcycle access, except Local Feeder Trails shall provide one or more means of unobstructed vehicular access for service vehicles. Access locations subject to approval by the Trails Advisory Committee. Refer to standard drawings for barriers and signs. Where there is no barrier, the trail should be posted.

10. CONCRETE APRONS: For drive approaches at trail entrances or at drainage crossings, concrete aprons shall be a transverse "medium broom" finish.

11. CONCRETE HEADER: Concrete header shall be 6 inch per City Standard between trail and all other abutments.


12. SPECIAL NOTES: Most Regional Trails follow existing or planned flood control facilities constructed by the San Bernardino County Flood Control District and Army Corps of Engineers. Therefore, any construction within their rights-of-way requires review and approval by those agencies and is subject to their standards and policies.

13. Landscape areas which would otherwise drain to trail shall be required to collect/dispose of water through area drains.

3-30-09  
 2-10-06  
 6-20-95  
 7-20-92  
 REVISED

## CITY OF RANCHO CUCAMONGA, CALIFORNIA

APPROVED BY:

  
 CITY ENGINEER  
 R.C.E. 53672

DATE

### TRAIL NOTES

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN

1001

SHEET 1 OF 1