

TYPE A CURB RAMPS

- CURB RAMPS PERPENDICULAR TO CURB OR TO DIRECTION OF TRAVEL. MAXIMUM DEVIATION FROM DIRECTION OF TRAVEL IS 15°. EXCEPT AT MID—BLOCK LOCATIONS PAIRED SIMILAR TYPE A CURB RAMPS ARE PREFERRED: SINGLE TYPE A CORNER RAMPS AT 45° SERVING TWO DIRECTIONS MAY BE USED IN RETROFITS WITH LIMITED R.O.W. ONLY.
- TYPE B CURB RAMPS

3" HIGH (MIN.)

CURB AT -

INTERMEDIATE

LANDING

R.O.W. 3" HIGH MID-LANDING ALLOWS RAMPS TO BE LOCATED CLOSER TO

MIN. COVER TO

FLEXIBLE PAVEMENT, H

BACKFILL

BACKFILL

BEDDING

PAIRED PARALLEL CURB RAMPS WITH SIDEWALK AT CURB FOR LIMITED

- HEADER CURB

 CURVED RAMPS (SLOPES OVER 1:20) SHALL ONLY BE USED WITH AN INSIDE RADIUS GREATER THAN 30' OR SPANNING AN ANGLE OF LESS THAN 15°. GRADE BREAKS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

TYPE C CURB RAMPS

HEADER

- UNIDIRECTIONAL PARALLEL CURB RAMPS WITH HEADER CURB. • C-1 IS PREFERRED OVER C-2 WHERE ADEQUATE R.O.W. EXISTS. C-3 IS THE LEAST PREFERRED AND SHOULD ONLY BE USED WHERE NO
- OTHER ALTERNATIVE EXIST. SEE GENERAL NOTES REGARDING INSTALLATION OF TACTILE WARNING

GENERAL NOTES

- 1. THESE DRAWINGS PROVIDE GUIDANCE FOR COMPLIANCE WITH CITY STANDARDS, STATE CODES AND ADA STANDARDS AT THE TIME OF PUBLICATION, AND SHALL BE SUBORDINATE TO ALL SUBSEQUENT ADOPTED CODES AND STANDARDS.
- 2. ALL SLOPES SHOWN ARE THE MAXIMUM ALLOWABLE SLOPES. IF SLOPES CONSTRUCTED EXCEED THOSE SHOWN, THE WORK SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. RAMP SLOPES OF 1:15 ARE RECOMMENDED TO ALLOW FOR CONSTRUCTION TOLERANCES WHERE FEASIBLE.
- 3. SURFACE TEXTURE OF CURB RAMPS AND SIDE FLARES SHALL BE A HEAVY BROOM FINISH, PERPENDICULAR TO EACH SLOPE, WITH A TEXTURE DEPTH OF .0625".
- 4. LANDINGS SHALL SLOPE TO DRAIN, AND HAVE A MAXIMUM SLOPE OF 2% (1% IS RECOMMENDED).

NOTES:

PAVEMENT.

- 5. SIDE FLARES ARE A PART OF THE PATH OF TRAVEL AND SHALL HAVE A MAXIMUM SLOPE OF 1:10. FOR ALTERATIONS WHERE NO TOP LANDING IS POSSIBLE, SIDE FLAIRS SHALL BE A PART OF THE ACCESSIBLE ROUTE AND HAVE A MAXIMUM SLOPE OF 1:12.
- 6. TWO TYPE A CURB RAMPS ARE PREFERRED FOR NEW CONSTRUCTION, ALIGNED WITH THE SIDEWALK AND THE DIRECTION OF TRAVEL. DEPENDING ON R.O.W. AND CROSSWALK LOCATION, TYPE A PERPENDICULAR CURB RAMPS MAY BE ANGLED UP TO 15° OR OFFSET FROM THE CENTERLINE OF THE CROSSWALK. TYPE A SINGLE CORNER RAMPS ARE NOT PREFERRED EXCEPT IN MIDBLOCK LOCATIONS, OR IN CONSTRAINED RETROFIT APPLICATIONS.
- 7. ALL GRADE BREAKS AT ACCESSIBLE ROUTES SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL
- AND SHALL BE INDICATED BY A SCORE JOINT. 8. TACTILE WARNING STRIPS SHALL BE INSTALLED AT

STORM TRENCH INSTALLATION DETAIL

MIN TRENCH WIDTH

(SEE TABLE)

ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS

ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF

MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND

BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE 90% OF MAXIMUM DENSITY PER ASTM D1557 OR AS

SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4"

AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL

(100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-900mm) DIAMETER PIPE. THE MIDDLE

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL

BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. FOR TRAFFIC APPLICATIONS; CLASS I, II OR III MATERIAL

SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 90 PERCENT OF MAXIMUM DENSITY PER ASTM D1557. CLASS IV

MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC

APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID

MIN. COVER TO

RIGID PAVEMENT, H

4" FOR 12"-24" PIPE

6" FOR 30"-60" PIPE

ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.

1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.

MATERIALS AS DEFINED IN ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.

THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN

ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

SPRINGLINE

NOTE: THE DETECTABLE WARNING SURFACE IS REFERRED TO AS A TACTILE WARNING STRIP IN THE GENERAL NOTES.

TABLE 1. RECOMMENDED MINIMUM TRENCH WIDTHS PIPE DIAM. | MIN TRENCH WIDTH

12" (300mm)

15" (375mm)

18" (450mm)

24" (600mm)

30" (750mm)

42" (1050mm)

48" (1200mm)

60" (1500mm)

PIPE DIAM.

(300mm - 1200mm)

60" (1500mm)

COA HP PP STORM TRENCH INSTALLATION DETAIL

30" (750mm)

34" (860mm)

39" (990mm)

48" (1200mm)

56" (1420mm)

64" (1620mm)

72" (1830mm)

80" (2030mm)

96" (2440mm)

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON

H-25

12" (300mm)

VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

24" (600mm)

VEHICLE LOADING CONDITIONS

SURFACE LIVE LOADING CONDITION

HEAVY CONSTRUCTION

(75T AXLE LOAD) *

48" (1200mm)

60" (1500mm)

WIDTH OF RAMP (F-F) SHALL

MATCH SIDEWALK WIDTH.

ALL CURB RAMPS AT STREET INTERSECTIONS, AND WHERE COMMERCIAL DRIVEWAYS PROVIDE YIELD OR STOP CONTROL, OR HAVE A CROSSING DISTANCE GREATER THAN 30'-0".

9. TACTILE WARNING STRIPS SHALL NOT SPAN ACROSS

DETECTABLE WARNING -

SURFACE.

- JOINT LINES OR CHANGES IN SLOPE 10. TACTILE WARNING STRIPS SHALL BE INSTALLED AT BACK OF CURB LINE, PERPENDICULAR TO THE
- DIRECTION OF TRAVEL. WHERE THE SEVERITY OF THE CORNER RADIUS WOULD REQUIRE ONE SIDE OF THE WARNING STRIP TO BE MORE THAN 5'-0" BEHIND THE BACK OF CURB, THE WARNING STRIP SHALL FOLLOW THE BACK OF CURB LINE AND BE CUT AND BEVELED TO REMAIN WITHIN 2" OF BACK OF CURB.
- 11. WHEN TWO CURB RAMPS ARE IMMEDIATELY ADJACENT, THE CURB EXPOSURE BETWEEN THE RAMPS MAY BE REDUCED TO 3" TO ALLOW

FLEXIBILITY IN RAMP LOCATION.

- 12. WHERE HEADER CURB IS USED, IT SHOULD BE
- CLEARLY DELINEATED FROM THE PATH OF TRAVEL BY LANDSCAPE OR OTHER MEANS TO DISCOURAGE
- 13. WHERE CURB RAMPS ARE USED AS AN ACCESS POINT FOR CONSTRUCTION VEHICLES, THEY SHALL BE BE PROTECTED FROM DAMAGE AND CONSTRUCTED 6"

THICK CONCRETE

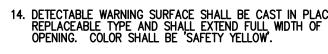
- HEADER CURB

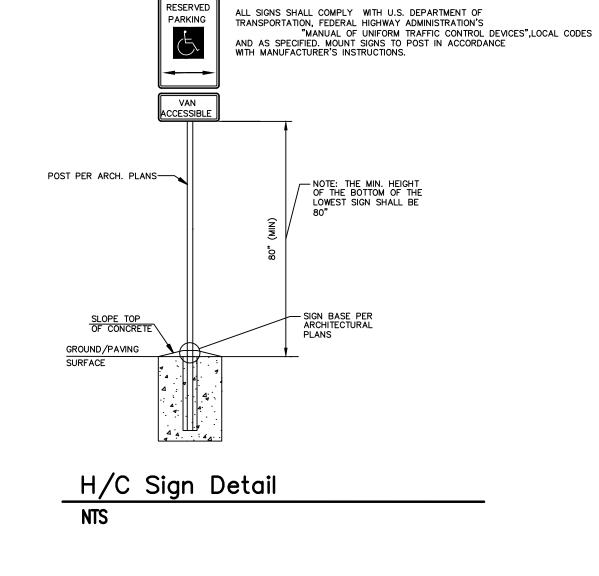
- HEADER CURB

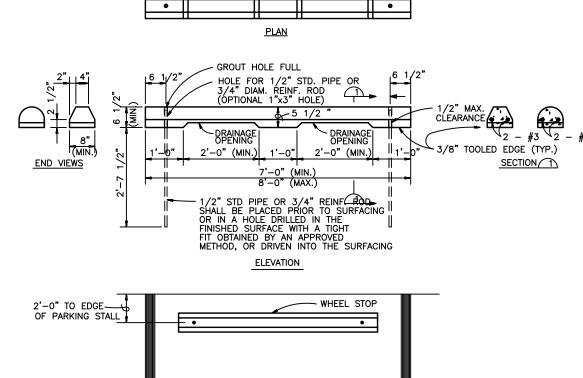
INFILL; 4' MIN

LENGTH.

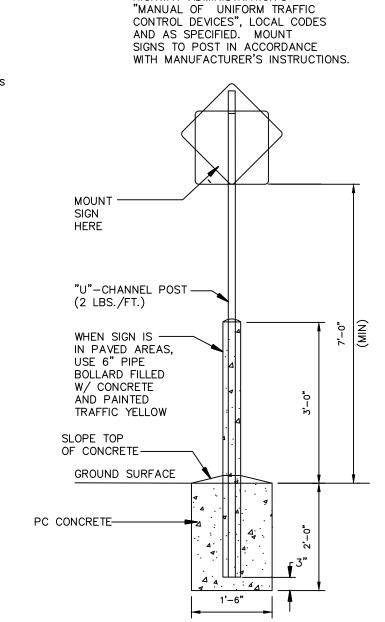
WIDTH OR 5' MAX.







Precast Concrete Wheel Stop



- 6" SCH. 40 STEEL PIPE

FILLED W/ CONC.

PAVEMENT OR

FINISHED GRADE -

3" COVER TO

— 2500 PSI P.C. CONCRETE MINIMUM

(TYP.)

ALL PIPES SHALL BE

PAINTED TRAFFIC YELLOW

Pipe Bollard Detail

OVER FOOTING

- FILL POST w/ CONCRETE

ALL SIGNS SHALL COMPLY

WITH U.S. DEPARTMENT OF

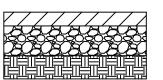
TRANSPORTATION, FEDERAL

HIGHWAY ADMINISTRATION'S

WITH TOP ROUNDED.

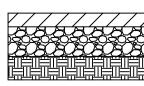
Standard Sign Base

AUTOMOBILE PARKING AREA PAVEMENT (PARKING SPACES ONLY)



2" ASPHALTIC CONCRETE 4" AGGREGATE BASE COURSE MIN. 12" COMPACTED SUBGRADE

INTERNAL DRIVEWAYS AND HEAVY DUTY PAVEMENT



3" ASPHALTIC CONCRETE 8" AGGREGATE BASE COURSE MIN. 12" COMPACTED SUBGRADE

MIN. 12" COMPACTED SUBGRADE

TRASH ENCLOSURE CONCRETE PAD

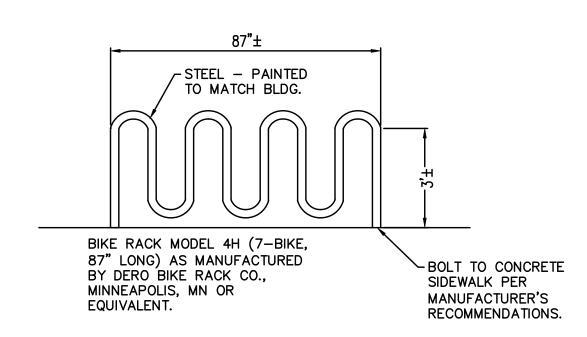
\$0\$0\$0\$0\$0\$0\$0\$0

6" PORTLAND CEMENT CONCRETE W/ #4 BARS AT 12" C-C 8" AGGREGATE BASE COURSE

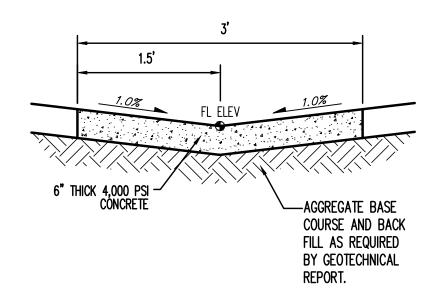
NOTE: REFERENCE GEOTECHNICAL REPORT BY EARTHWORKS ENGINEERING DATED 7/10/2015 FOR ADDITIONAL DETAILS AND SPECIFICATIONS OF PAVEMENT.

Pavement Sections

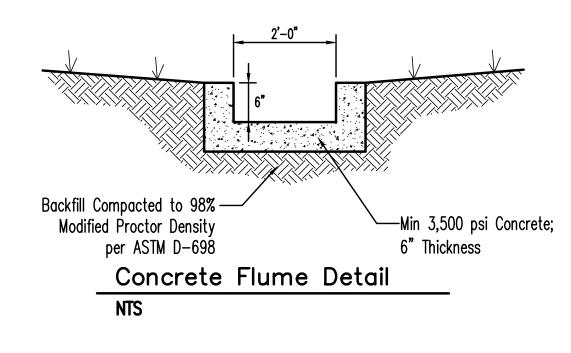
1005 21st Street SE, Suite B

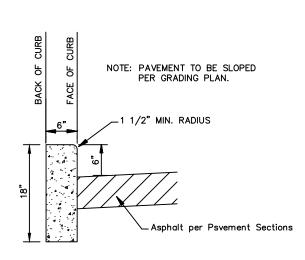


Bike Rack Detail



Valley Gutter Detail





6"x18" Concrete Curb



COMMERCIAL & APARTMENT BUILDING PHASE 1 4419 4th ST NW ALBUQUERQUE, NM 87107

DRAWING TITLE

Site Details PROJECT NO WE2014059 DESIGNED

See Plan CHECKED DATE 10/5/15

Rio Rancho, N.M. 87124 Phone: (505) 980-3560

INSTALLATION PLAN