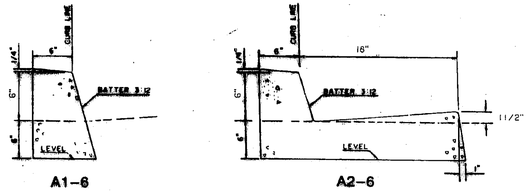
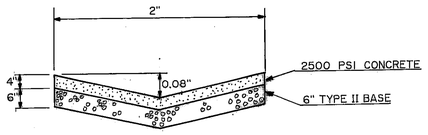


CURB AND GUTTER NOTES:

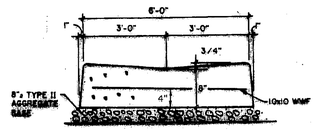
1. All dimensions are measured in inches.
2. Type A1 and A2 Curb and Gutter are constructed of Portland Cement Concrete.
3. Grade shall be measured at curb line at top of curb.
4. All exposed corners to be rounded with a 1/2 in. radius.

CURB AND GUTTER

N.T.S.

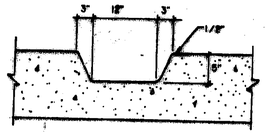


2' VALLEY GUTTER
DETAIL N.T.S.

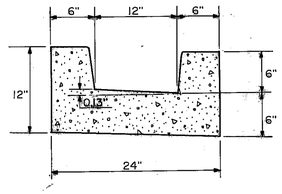


VALLEY GUTTER SECTION
N.T.S.

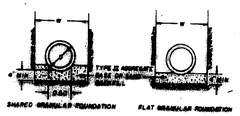
VALLEY GUTTER
NOTES:
1. VALLEY GUTTER IS CONSTRUCTED OF PORTLAND CEMENT CONCRETE
2. GRADE SHALL BE MEASURED AT FLOW LINE IN CENTER OF VALLEY GUTTER
3. ALL EXPOSED CORNERS TO BE ROUNDED WITH A 1/2" RADIUS.
4. SEE DETAIL 3 FOR ASPHALT TO [illegible] TRANSITION.



CURB DEPRESSION DETAIL
N.T.S.



DETAIL 'A'
N.T.S.
3

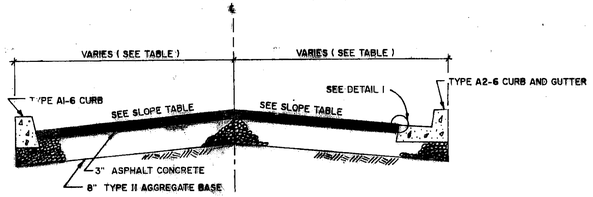


D=OUTSIDE DIAMETER OF PIPE
W=OUTSIDE DIAMETER OF PIPE + 24" MAXIMUM.

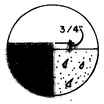
NOTES:
1. PIPE BEDDING TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY.
2. INDICATED THICKNESS OF BEDDING MATERIAL TO BE CONSTRUCTED UNDER THE BARREL. SUBGRADE TO BE EXCAVATED TO PROVIDE 1/2 CLEARANCE UNDER THE BELL.
3. OTHER BEDDING METHODS MAY BE SPECIFIED OR APPROVED

PIPE TRENCH BEDDING METHODS

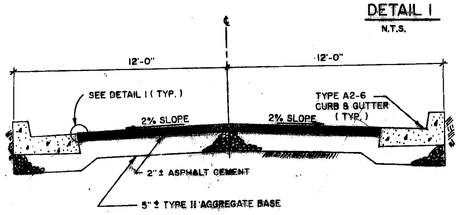
N.T.S.



MARINA DRIVE (OFFSITE)
TYPICAL ROAD SECTION
(N.T.S.)

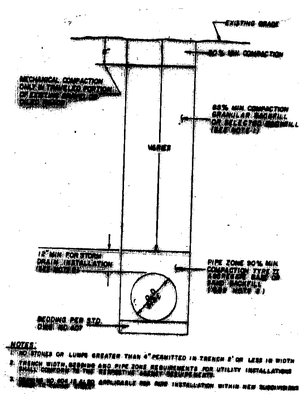


DETAIL I
N.T.S.



ALL ROADS (ONSITE)
TYPICAL ROAD SECTION
(N.T.S.)

DETAIL I
N.T.S.



NOTES:
1. NO STONES OR LUMPS GREATER THAN 6" PERMITTED IN TRENCH 3' OR LESS IN WIDTH
2. TRENCH WIDTH, BEDDING AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE AGENCY REQUIREMENTS.
3. SLURRY CEMENT BACKFILL SHALL BE REQUIRED FOR ALL TRENCHES 6' OR LESS IN WIDTH AND WHERE SPECIFICALLY REQUIRED BY THE COUNTY ENGINEER.

TRENCH BACKFILL-PAVED AREA
(STREET R/W 60' OR LESS) N.T.S.

NOTES:
1. NO STONES OR LUMPS GREATER THAN 6" PERMITTED IN TRENCH 3' OR LESS IN WIDTH
2. TRENCH WIDTH, BEDDING AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE AGENCY REQUIREMENTS.
3. [illegible] APPLICABLE FOR STORM INSTALLATION WITHIN NEW SUBDIVISIONS

TRENCH BACKFILL
UNPAVED AREAS N.T.S.

REGISTERED PROFESSIONAL ENGINEER
TED H. LYON
No. 27137
Exp. 03-31-97
CIVIL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
JAMES TERRENCE ANSPACH
No. 22648
CIVIL
STATE OF CALIFORNIA
EXP 12/31/97

SUMMIT™ ENGINEERING CORPORATION
CONSULTING ENGINEERS AND SURVEYORS
11290 WEST OLIVE AVENUE, Suite #2, LAS VEGAS, NEVADA 89135
PHONE (702) 796-9090 FAX (702) 796-9291

DESIGNED BY: A.S.M.
DRAWN BY: K.K.A.
CHECKED BY: T.H.L.
DATE: SEPTEMBER 1994

DETAIL SHEET

PORTOBELLO SINGLE FAMILY RESIDENTIAL DEVELOPMENT
NEEDLES, SAN BERNARDINO, CALIFORNIA

REV.	DATE	DESCRIPTION	BY	APP'D

SCALE
HORIZ. ____
VERT. ____

JOB NO. 709631

SHEET 15 OF 15

DR-9 K-2