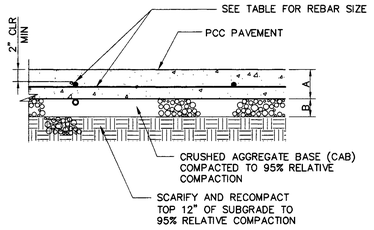
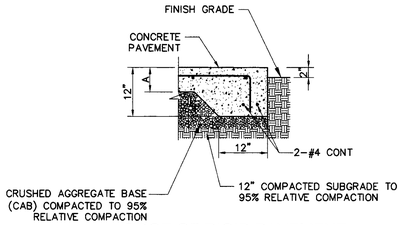
NOTES:

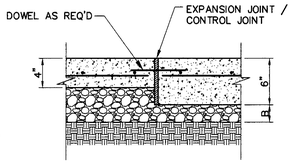
1. CONCRETE, fc'=4000 psi @ 28 DAYS. FOR TRAFFIC ONLY.
2. CONCRETE. fc'=3000 PSI @ 28 DAYS. FOR NON TRAFFIC.
3. REBARS, fy=60,000 psi ASTM A615.
4. FOR WPJ CONSTRUCTION JOINTS AND PATTERN, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. PAVING SHALL HAVE A MEDIUM SANDBLAST FINISH ON ALL SURFACES LESS THAN 6% AND A SLIP RESISTANT (HEAVY BROOM) FINISH ON ALL SURFACES GREATER THAN 6%. REFER TO ARCHITECTURAL DRAWING FOR PATTERN, COLOR AND TEXTURE.

LOCATION	CONCRETE PAVEMENT THICKNESS "A"	CRUSHED AGGREGATE BASE THICKNESS "B"	REBARS
TRAFFIC	6"	6"	#4 @ 16" O.C. B.W.
NON TRAFFIC	4"	4"	#3 @ 18" O.C. B.W.



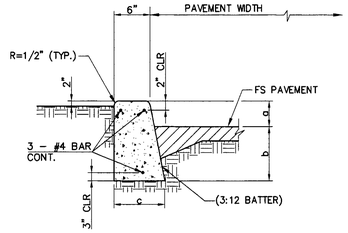


EDGE OF RIGID PAVEMENT



TRANSITION DETAIL

1 CONCRETE PAVEMENT SECTION
SCALE: NOT TO SCALE

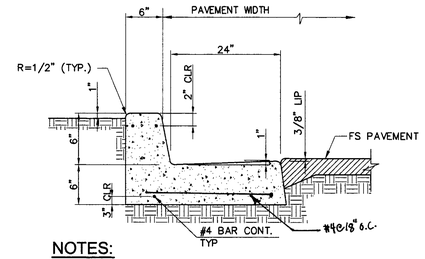


a	b	c
6"	8"	9-1/2"
12"	8"	11"

NOTES:

1. PROVIDE 1/4" EXPANSION JOINT WITH PREFORMED JOINT FILLER AT ALL ANGLE POINTS AND THE BEGINNING AND END OF ALL CURVES.
2. PROVIDE CONTRACTION JOINTS CONSISTING OF ONE INCH DEEP CUT SCORES AT 20' O.C. MAX.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTS SHALL LINE WITH JOINTS IN THE WALK.
4. SEE PLAN FOR TC AND FS ELEVATIONS.

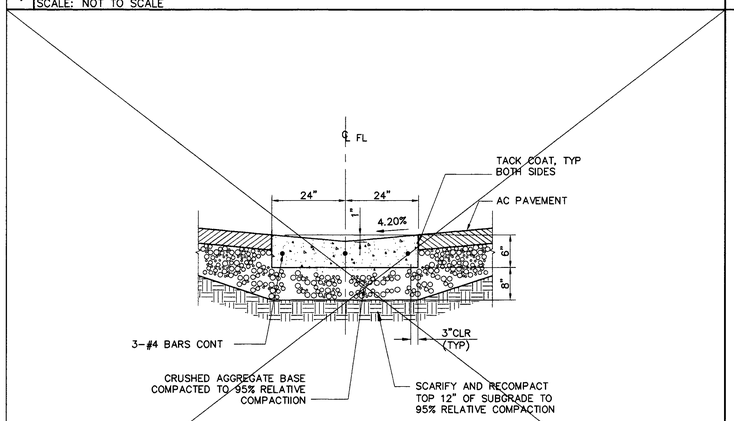
2 CONCRETE CURB DETAIL
SCALE: NOT TO SCALE



NOTES:

1. PROVIDE 1/4" EXPANSION JOINT WITH PREFORMED JOINT FILLER AT ALL ANGLE POINTS AND THE BEGINNING AND END OF ALL CURVES.
2. PROVIDE CONTRACTION JOINTS CONSISTING OF ONE INCH DEEP CUT SCORES AT 20' O.C. MAX.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTS SHALL LINE WITH JOINTS IN THE WALK.
4. SEE PLAN FOR TC AND FL ELEVATIONS.

3 CONCRETE CURB AND GUTTER DETAIL
SCALE: NOT TO SCALE

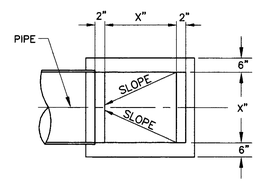


4 CONCRETE V-GUTTER DETAIL (NOT USED)
SCALE: NOT TO SCALE

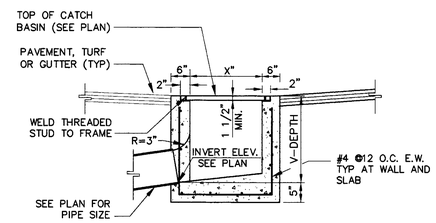
NOTES:

1. USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
2. ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
3. FRAME AND GRATE SHALL BE SIMILAR TO ALHAMBRA FOUNDRY CO. LTD. SERIES OR BROOKS PRODUCTS, INC. OR APPROVED EQUAL. PROVIDE "HEEL PROOF" GRATES ON ALL PEDESTRIAN AREAS.
4. GRATES SHALL BE OF VANDAL-RESISTANT CONSTRUCTION WITH 1/2" MAX OPENINGS.
5. FRAME AND GRATE SHALL BE TRAFFIC-RATED WHEN INSTALLED IN PAVED (ASPHALT OR CONCRETE) AREAS.
6. GRATE MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS.
7. PROVIDE 1/2" MAX GRID/OPENINGS IN GRATING IN THE DIRECTION OF TRAFFIC FLOW.
8. SEE PLAN FOR SIZES.
9. INSTALL FLO-GARD FILTER INSERT (1-858-509-9592) OR APPROVED EQUAL IF CALLED OUT IN THE PLANS.

TRAFFIC LOADING	STEEL BARS	MAXIMUM CLEAR SPAN, X	CLEAR BAR SPACING
NON-VEHICULAR	3/8"x1-1/2"	12"	1/2"
NON-VEHICULAR	3/8"x1-1/2"	18"	1/2"
VEHICULAR	1/2"x2-1/4"	24"	1/2"
	1/2"x3-1/2"	35-3/8"	1/2"

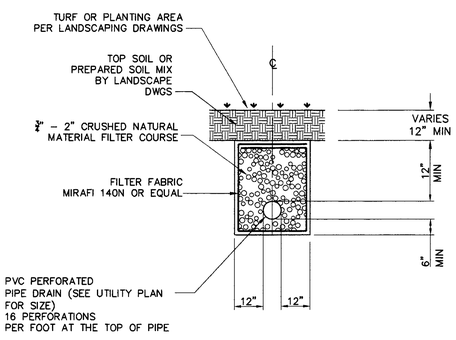


PLAN



SECTION

5 CATCH BASIN DETAIL
SCALE: NOT TO SCALE



6 FRENCH DRAIN DETAIL
SCALE: NOT TO SCALE

TABLE 1

MINIMUM BEARING AREAS IN SQ.FT.				
MAIN SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND
6"	4	4	4	3
8"	5	7	4	3
10"	9	12	6	4
12"	12	16	9	6

BASED ON 150 PSI W.W.R. PRESSURE & SOIL BEARING LOADS OF 2000 PSF THE RATIO OF WIDTH TO HEIGHT SHALL NOT EXCEED 1 1/2 TO 1

TEES,PLUGS,CAPS & HYDRANTS.

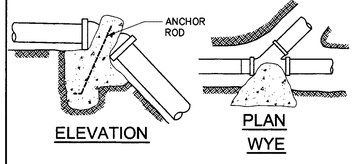
TABLE II

SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE 1
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1

BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

GENERAL NOTES:

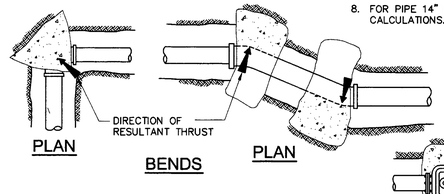
1. ALL ANCHOR AND THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. MINIMUM ALLOWABLE WATER PRESSURE FOR DESIGN OF THRUST BLOCKS IS 150 PSI. BEARING AREA INCREASE IN PRESSURE.
3. ALL CONCRETE USED IN THRUST BLOCKS SHALL ATTAIN 2000 PSI STRENGTH.
4. ALL ANCHOR RODS SHALL BE REINFORCING STEEL AND A MINIMUM OF 1/2-INCH IN DIAMETER.
5. USE ANCHOR BLOCKS AT VERTICAL BENDS WHEN PIPE IS ABOVE OR BELOW GROUND. SIZE OF BLOCK AND ROD SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER IN THE FIELD.
6. USE 30 POUND FELT TO INSURE COLD JOINT.
7. CONCRETE SHALL NOT COME INTO DIRECT WITH ASBESTOS CEMENT PIPE.
8. FOR PIPE 14" IN DIAMETER OR LARGER ENGINEER IS TO SUBMIT CALCULATIONS.



ELEVATION

PLAN
WYE

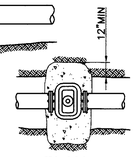
VERTICAL BEND
(SEE NOTE 5)



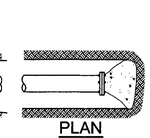
PLAN

BENDS

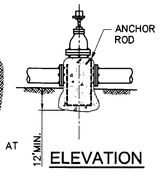
PLAN



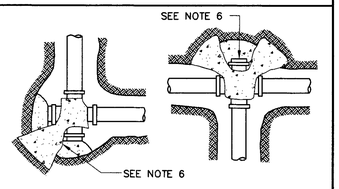
PLAN
VALVES



PLAN
BLIND FLANGE OR PLUG AT END OF WATERMAIN

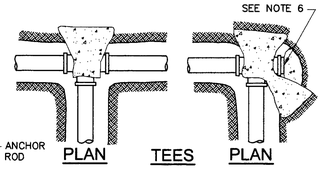


ELEVATION



PLAN PLAN

CROSSES



PLAN TEES PLAN

7 THRUST BLOCK DETAIL
SCALE: NOT TO SCALE

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Exp. 6/30/10
CIVIL
STATE OF CALIFORNIA

consultant

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Antelope Valley Community College District
3041 West Avenue K
Lancaster, CA 93536-5426

owner

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file name:
drawn by: AL checked by: VCA
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