

The following indicated Standard Drawings are hereby referred to and incorporated herein as though set forth in full:

<u>Drawing No.</u>	<u>Drawing Title</u>
ST – 1	TRAFFIC INDEX CHART
ST – 2	STRUCTURAL DESIGN CHART
ST – 3	RESIDENTIAL STREETS
ST – 4	MAJOR COLLECTORS
ST – 5	MAJOR ARTERIAL
ST – 6	EXPRESSWAY
ST – 7	ACCESS ROAD
ST – 8	ALLEY
ST – 9	CUL-DE-SAC TURN-AROUND WITH ADJACENT SIDEWALK
ST – 10	CURB & GUTTER
ST – 11	CURB, GUTTER & SIDEWALK
ST – 12A	CURB RAMP – TYPE A
ST – 12B	CURB RAMP – TYPE B
ST – 12C	CURB RAMP – TYPE C
ST – 13	CONCRETE VALLEY GUTTER STREET INTERSECTION
ST – 14	RESIDENTIAL DRIVE APPROACH
ST – 15	COMMERCIAL DRIVE APPROACH (3 Sheets)
ST – 16	ALLEY APPROACH
ST – 16M	ALLEY APPROACH MODIFIED
ST – 17	STREET LIGHT ELECTROLIERS (2 Sheets)
ST – 18	STREET NAME SIGN
ST – 19	TEMPORARY TIMBER BARRICADE
ST – 20	BUS BAY (10 Sheets)
ST – 21	MINOR INDUSTRIAL COLLECTOR STREET
ST – 22	MAJOR INDUSTRIAL COLLECTOR STREET
ST – 23	MAJOR INDUSTRIAL ARTERIAL STREET
ST – 24	INDUSTRIAL EXPRESSWAY
D-1	CURB DRAIN INLET-OUTLET TYPE A
D-2	CURB DRAIN INLET-OUTLET TYPE B (3 Sheets)

D-3	CURB DRAIN INLET-OUTLET TYPE C
D-4	DRAIN INLET-OUTLET TYPE D
D-5	DRAIN INLET FRAME & GRATE
D-6	STANDARD DRYWELL
D-7	SIDEWALK UNDER DRAIN PIPE
S-1	MANHOLE FRAME & COVER
S-2	48" MANHOLE
S-3	DROP MANHOLE
S-4	54" MANHOLE
S-5	60" MANHOLE
S-6	SLOPING LAMPHOLE WITH C.I. CLEANOUT & COVER
S-7	SEWER CLEANOUT
S-8	SAND & GREASE INTERCEPTOR
S-9A	RESIDENTIAL SERVICE SEWER CLEANOUT
S-9B	COMMERCIAL SERVICE SEWER CLEANOUT
W-1	SERVICE CONNECTION
W-2	FIRE HYDRANT INSTALLATION & LOCATION
W-3	VALVE BOX & COVER DETAIL
W-4	WATER MAIN BLOW-OFF
W-5	THRUST BLOCK DETAILS
W-6	THRUST BLOCK BEARING AREA
W-7	STANDARD WELL SITE
W-8	STANDARD WELL SECTION GRAVEL PACK WELL
W-9	HYDRO-TANK END ELEVATION DETAIL
W-10	HYDRO-TANK SIDE ELEVATION DETAIL
W-11	HYDRO-TANK END DETAIL
W-12	CONCRETE PIPE SUPPORT DETAIL
W-13	PIPE SUPPORT DETAIL
W-14	CONCRETE BLOW-OFF CHANNEL
W-15	WELL SITE ELECTRICAL PLAN
W-16	ELECTRICAL PANEL PLAN
W-17	ELECTRICAL PANEL ELEVATION DETAIL

W-18	SINGLE LINE DIAGRAM
W-19	MOTOR CONTROL DIAGRAM
W-20	YARD LIGHT
W-21	¾" SAMPLE TAP DETAIL
W-22	¾" WATER SAMPLE STATION (2 Sheets)
W-23	AIR GAP DETAIL
W-24	VACUUM BREAKER ASSEMBLY (2 Sheets)
W-25	BACKFLOW PREVENTER ASSEMBLY (DOUBLE CHECK VALVE)
W-26	BACKFLOW PREVENTER ASSEMBLY (REDUCED PRESSURE TYPE)
W-27	WATER MAIN CONNECTION PROCEDURE (3 Sheets)
W-28	FIRE SERVICE ASSEMBLY W/DETECTOR CHECK VALVE (2 Sheets)
W-29	AIR RELEASE VALVE - Alt. 1 and 2 (2 sheets)
M-1	HOUSE BRANCH & UTILITIES LOCATIONS IN STREET
M-2	PARKING LOT LAYOUT (4 Sheets)
M-3	WOOD FENCE DETAIL
M-4	CHAIN LINK FENCE (2 Sheets)
M-5	4" CONCRETE BLOCK FENCE
M-6	6" CONCRETE BLOCK FENCE
M-7	BLOCK FENCE GENERAL NOTES AND SPECIFICATIONS
M-8	GUARD POST
M-9	PROPERTY MONUMENT DETAILS
M-10	BENCH MARK
M-11	TRENCH BACKFILL & SURFACE REPLACEMENT
M-12	TYP. SIDEWALK/PLANTING PLAN
M-13	TYPICAL CORNER PLAN
M-14	TYP. WALL ELEVATIONS W/PLANTER
M-15	TYP. CORNER ELEVATION
M-16	TYP. WALL ELEVATION
M-17	SUGGESTED PLAN LIST
M-18	COMMERCIAL & INDUSTRIAL TRASH ENCLOSURE (5 Sheets)
M-19	STREET TREE WELL
M-20	COMMERCIAL TREE WELL W/ AUTOMATIC IRRIGATION SYSTEM
M-21	STREET TREE LOCATION

M-22

DECORATIVE MASONRY WALL FOR SANTA CRUZ BLVD. (5 Sheets)

M-23

3-D CONCRETE PANEL FENCE 6 FOOT TALL (4 Sheets)

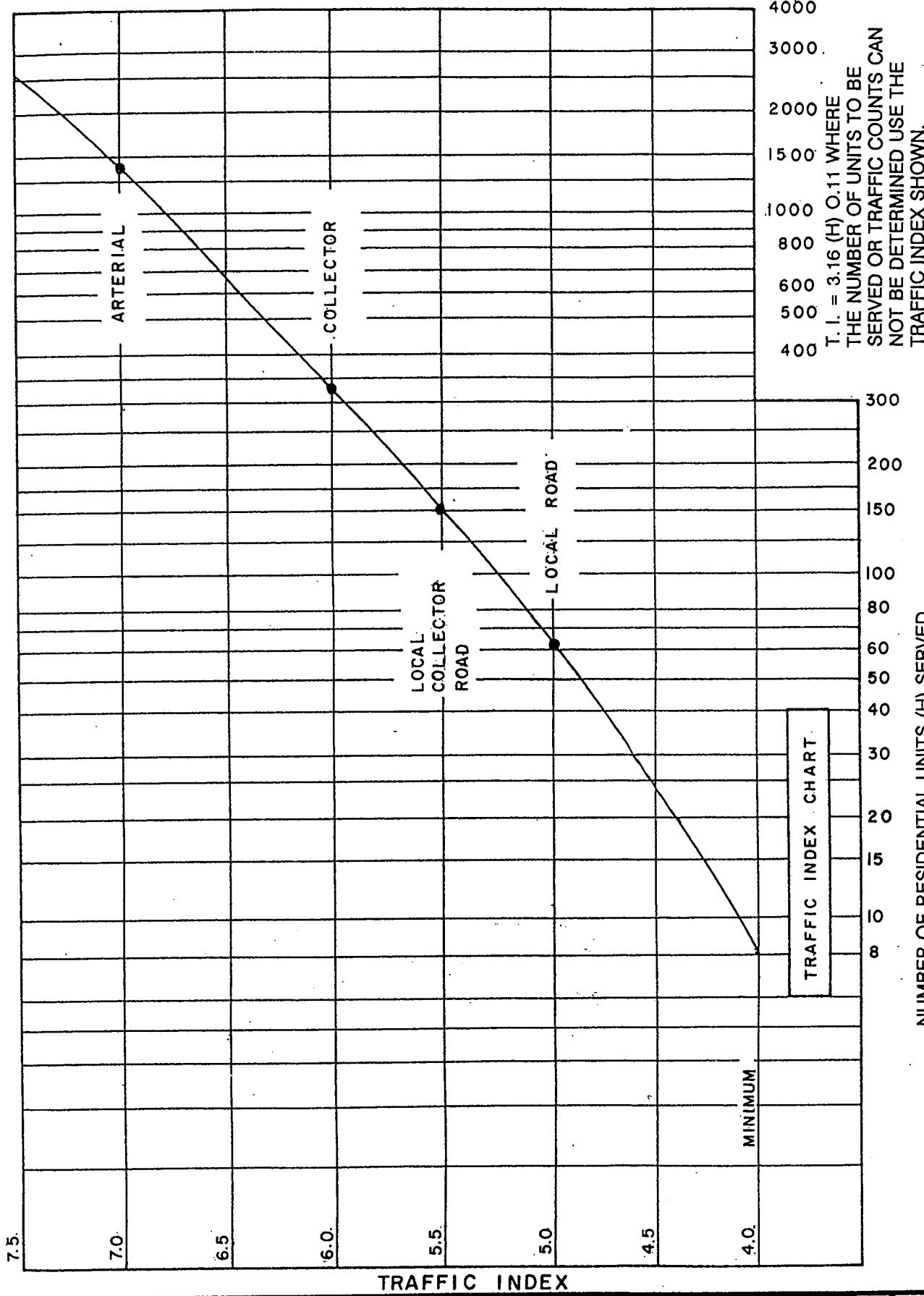
SUPPLEMENTAL DATA

X-1

TREE PROGRAM FOR THE CITY STREETS

X-2

FIRE DEPARTMENT PROTECTION STANDARDS



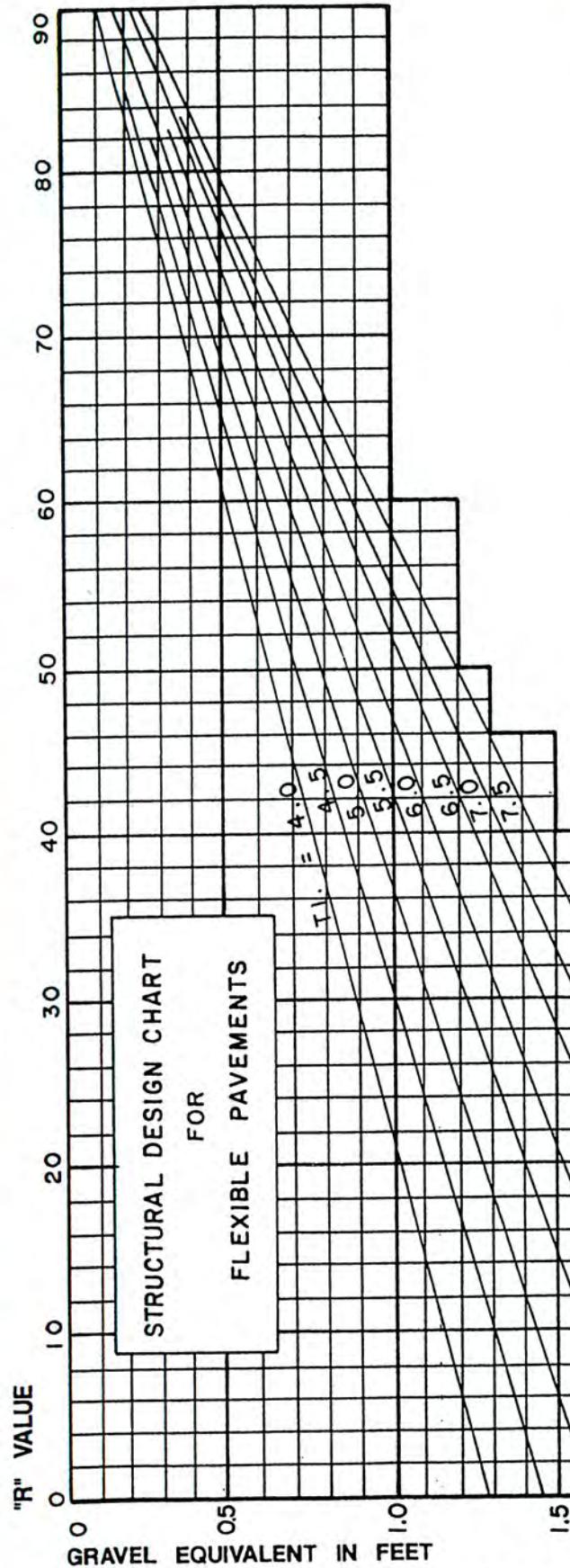
REVISION DATE	

CITY OF CHOWCHILLA

Std. Dwg.

TRAFFIC INDEX CHART

ST-1



ACTUAL THICKNESS IN FEET	GRAVEL EQUIVALENTS IN FEET							
	ASPHALT CONCRETE		CL. B		CL. C		CL. D	
(G _f)	T. I BELOW	5 & 6.0	6.5 7.0	7.5 8.0	AB	CTB BTB & ASB	CTB LTB	
0.13 MIN	0.32	0.38	0.46	0.43				
0.15	0.38	0.59	0.58	0.54	0.50			
0.20	0.59	0.63	0.58	0.54	0.50			
0.25	0.75	0.70	0.64	0.60	0.55			
0.30	0.88	0.81	0.75	0.70	0.65			
0.35	1.00	0.93	0.86	0.80	0.75			
0.40	1.00	0.94	0.86	0.80	0.75			
0.45	1.16	1.07	0.97	0.90	0.85			
0.50	1.16	1.18	1.07	1.00	0.95			
0.55						0.66	0.66	0.65
0.60						0.71	0.71	0.70
0.65						0.77	0.77	0.76
0.70						0.83	0.83	0.82
0.75						0.88	0.88	0.87
0.80						0.90	0.90	0.89

NOTES:

1. ALL PAVEMENTS SHALL BE DESIGNED ACCORDING TO TEST METHOD NO. CALIF. 301-G AND PART VII PLANNING MANUAL OF INSTRUCTIONS STATE OF CALIFORNIA WITH EXCEPTION THAT T.I.'S. WILL BE DETERMINED FROM THE TRAFFIC INDEX CHART WHERE APPLICABLE.
2. WHERE EXPANSIVE SOILS ARE ENCOUNTERED AS DESCRIBED IN THE STANDARD SPECIFICATIONS DESIGN OF THE STRUCTURAL SECTION TO BE BASED UPON LABORATORY TESTS AND SUBMITTED TO CITY ENGINEER FOR APPROVAL.

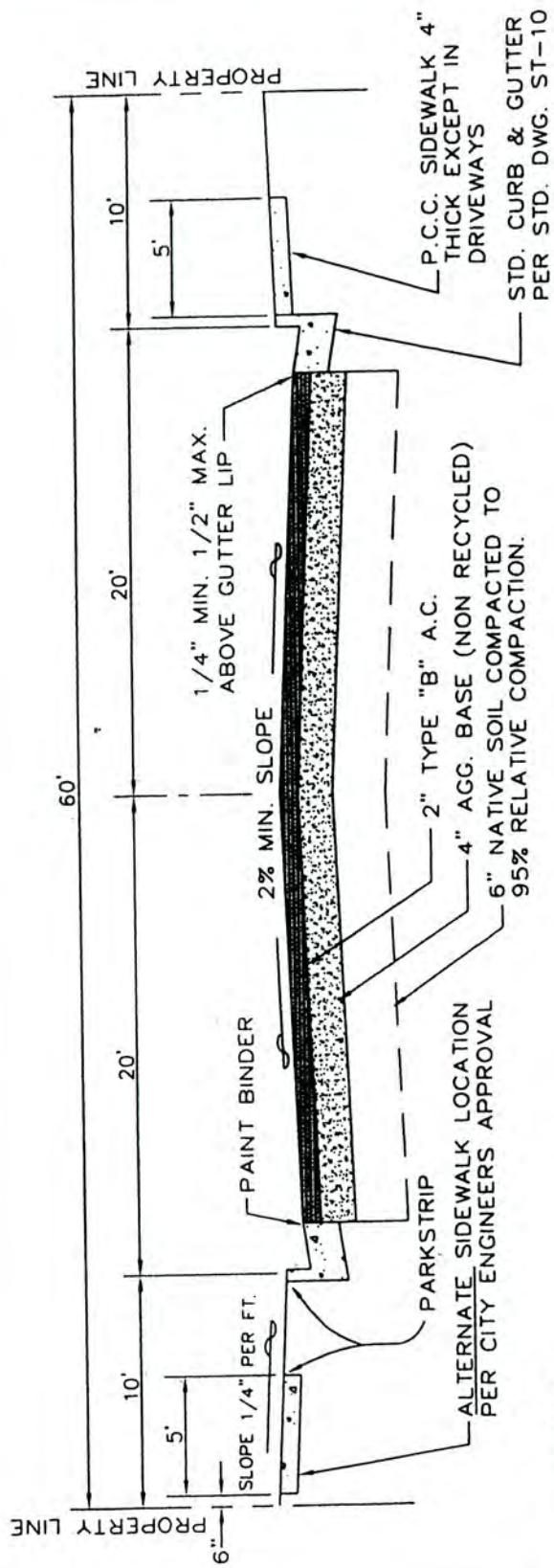
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

STRUCTURAL DESIGN CHART

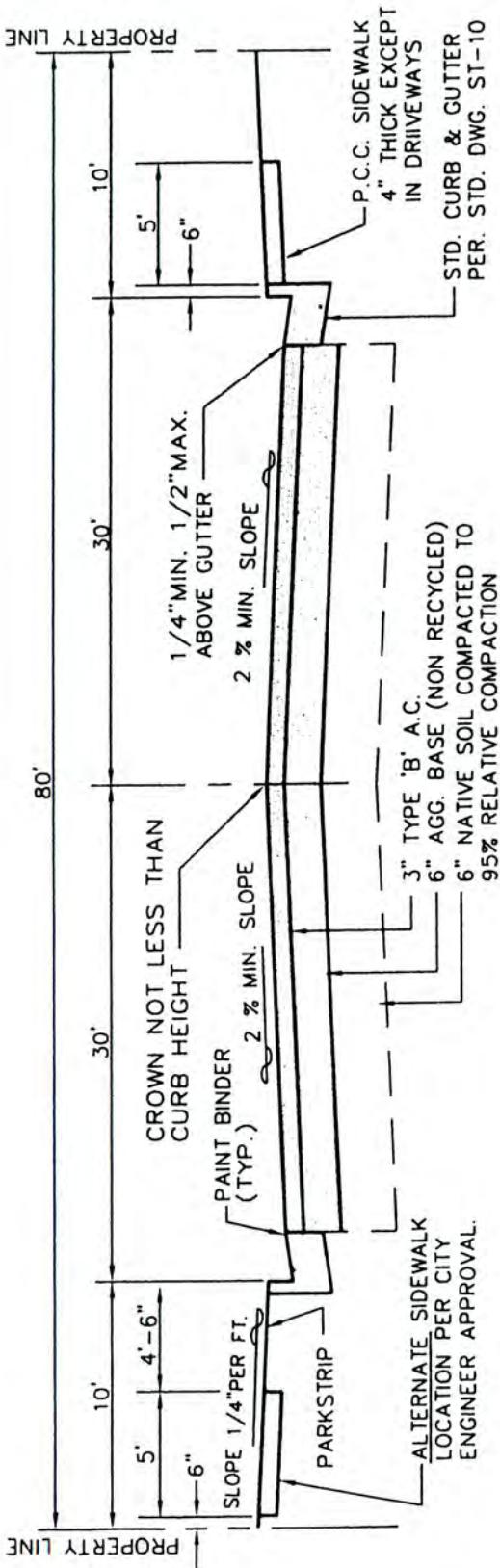
ST-2



NOTES:

1. ASPHALT CONCRETE, AND EARTHWORK SHALL CONFORM TO SECTIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE ST-1, AND ST-2.
3. TRAFFIC INDEX = 4
4. MINIMUM GUTTER SLOPE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 25 MPH.
9. MINIMUM RADIUS = 250'
10. STOPPING SIGHT DISTANCE = 200'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF THE CITY ENGINEER.
12. BY APPROVAL OF THE CITY ENGINEER, THE SIDEWALK MAY BE CONSTRUCTED APART FROM THE CURB (AS SHOWN IN THE "ALTERNATE SIDEWALK CONFIGURATION") WHERE IT IS IMPOSSIBLE TO RELOCATE HYDRANTS OR OTHER OBSTRUCTIONS EXISTENT IN THE PARK STRIP AREA. PREFERABLY SIDEWALKS SHOULD BE CONSTRUCTED CONTIGUOUS WITH THE CURB AND ALL HYDRANTS, LIGHT POLES, ETC. LOCATED BEHIND THE SIDEWALK. (MAIL BOXES TO BE ERECTED IN GROUPS AT ONE OFF-STREET LOCATION SUBJECT TO POST OFFICE REGULATIONS). CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
13. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
14. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

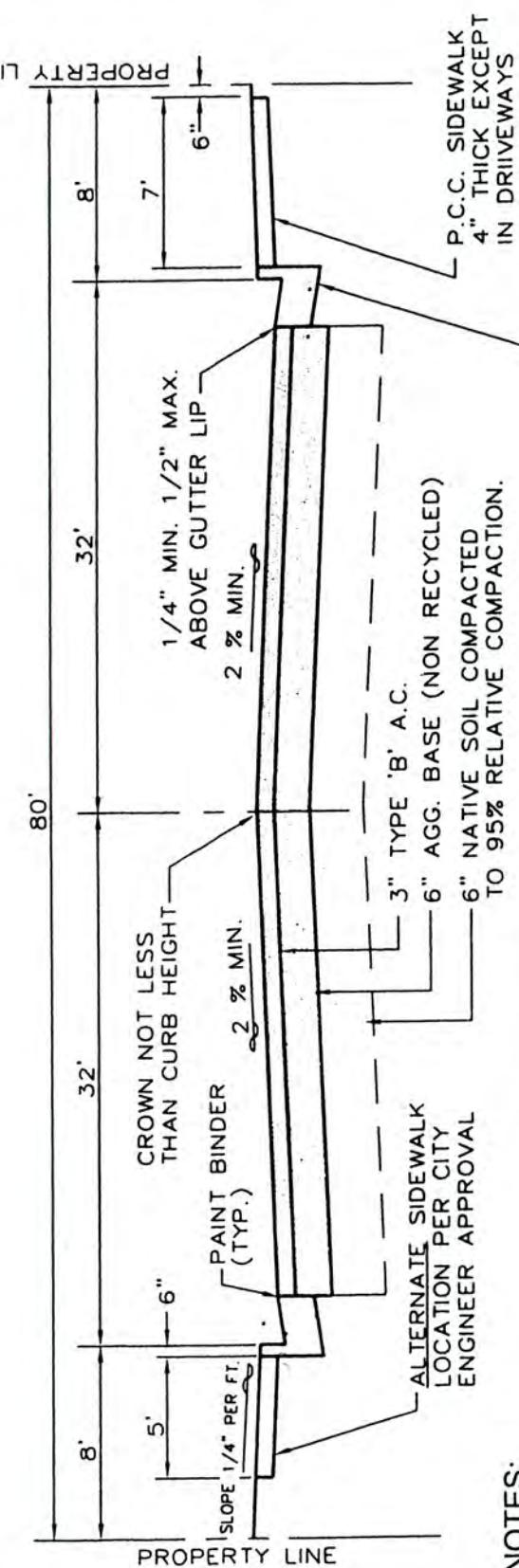
REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
AUG 04		RESIDENTIAL STREET	ST-3



NOTES:

1. ASPHALTIC CONCRETE, AND EARTHWORK SHALL CONFORM TO SPECIFICATIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1 AND ST-2.
3. TRAFFIC INDEX = 6
4. MINIMUM GUTTER GRADE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 40 MPH
9. MINIMUM RADIUS = 550'
10. STOPPING SIGHT DISTANCE = 300'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF CITY ENGINEER.
12. BY APPROVAL OF THE CITY ENGINEER, THE SIDEWALK MAY BE CONSTRUCTED APART FROM THE CURB (AS SHOWN IN THE "ALTERNATE SIDEWALK CONFIGURATION") WHERE IT IS IMPOSSIBLE TO RELOCATE HYDRANTS OR OTHER OBSTRUCTIONS EXISTENT IN THE PARK STRIP AREA. PREFERABLY, SIDEWALKS SHOULD BE CONSTRUCTED CONTIGUOUS WITH THE CURB AND ALL HYDRANTS, LIGHT POLES, ETC. LOCATED BEHIND THE SIDEWALK. (MAIL BOXES TO BE ERECTED IN GROUPS AT ONE OFF-STREET LOCATION SUBJECT TO POST OFFICE REGULATIONS). CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
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14. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
AUG 04			
	MAJOR COLLECTOR		
			ST-4



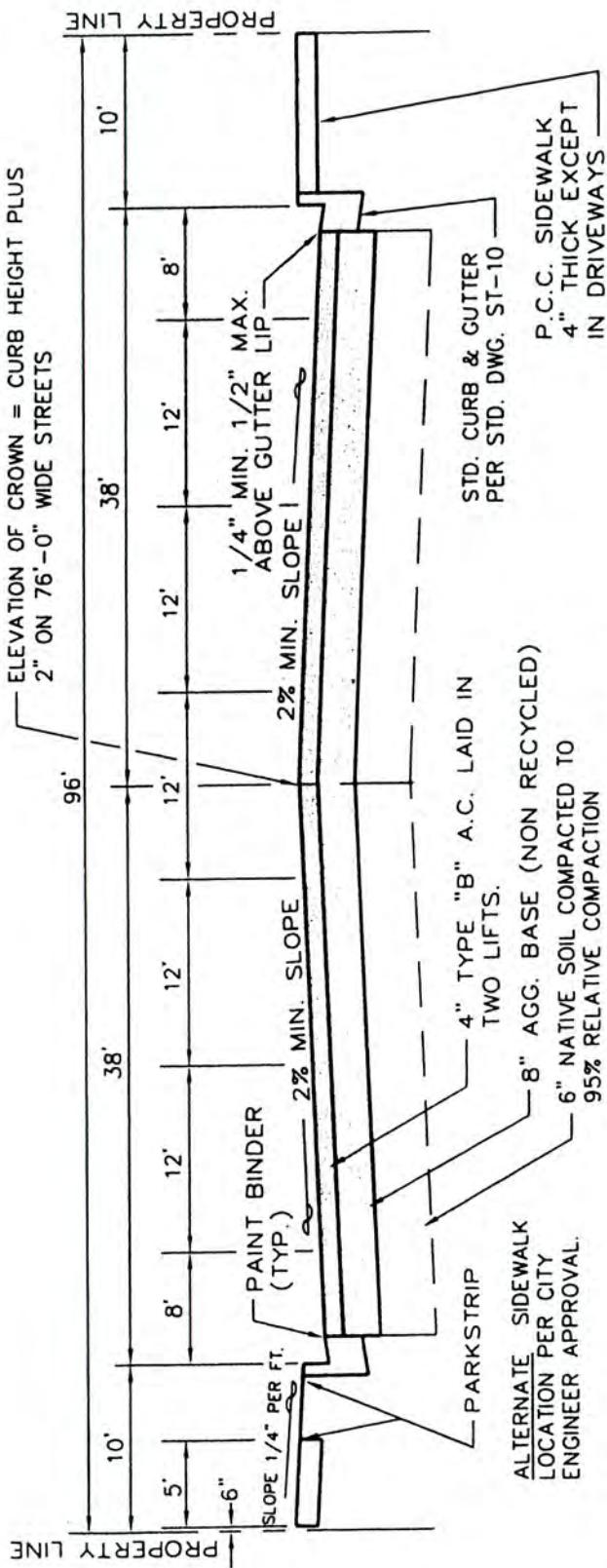
NOTES:

1. ASPHALTIC CONCRETE, AND EARTHWORK SHALL CONFORM TO SPECIFICATIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1 AND ST-2.
3. TRAFFIC INDEX = 6
4. MINIMUM GUTTER GRADE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 40 MPH
9. MINIMUM RADIUS = 550'
10. STOPPING DISTANCE = 300'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF THE CITY MANAGER
12. BY APPROVAL OF THE CITY ENGINEER, THE SIDEWALK MAY BE CONSTRUCTED APART FROM THE CURB (AS SHOWN IN THE "ALTERNATE SIDEWALK CONFIGURATION") WHERE IT IS IMPOSSIBLE TO RELOCATE HYDRANTS OR OTHER OBSTRUCTIONS EXISTENT IN THE PARK STRIP AREA. PREFERABLY, SIDEWALKS SHOULD BE CONSTRUCTED CONTIGUOUS WITH THE CURB AND ALL HYDRANTS, LIGHT POLES, ETC. LOCATED BEHIND THE SIDEWALK. (MAIL BOXES TO BE ERECTED IN GROUPS AT ONE OFF-STREET LOCATION SUBJECT TO POST OFFICE REGULATIONS). CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
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14. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

REVISION DATE	
AUG 04	

CITY OF CHOWCHILLA
MAJOR ARTERIAL

STD.DWG.
ST-5



NOTES:

1. ASPHALT CONCRETE, AND EARTHWORK SHALL CONFORM TO SECTIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1, AND ST-2.
3. TRAFFIC INDEX = 8
4. MINIMUM GUTTER SLOPE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 50 MPH
9. MINIMUM RADIUS = 850'
10. STOPPING SIGHT DISTANCE = 400'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF THE CITY ENGINEER.
12. BY APPROVAL OF THE CITY ENGINEER, THE SIDEWALK MAY BE CONSTRUCTED APART FROM THE CURB (AS SHOWN IN THE "ALTERNATE SIDEWALK CONFIGURATION") WHERE IT IS IMPOSSIBLE TO RELOCATE HYDRANTS OR OTHER OBSTRUCTIONS EXISTENT IN THE PARK STRIP AREA. PREFERABLY SIDEWALKS SHOULD BE CONSTRUCTED CONTIGUOUS WITH THE CURB AND ALL HYDRANTS, LIGHT POLES, ETC. LOCATED BEHIND THE SIDEWALK. (MAIL BOXES TO BE ERECTED IN GROUPS AT ONE OFF-STREET LOCATION SUBJECT TO POST OFFICE REGULATIONS). CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
13. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
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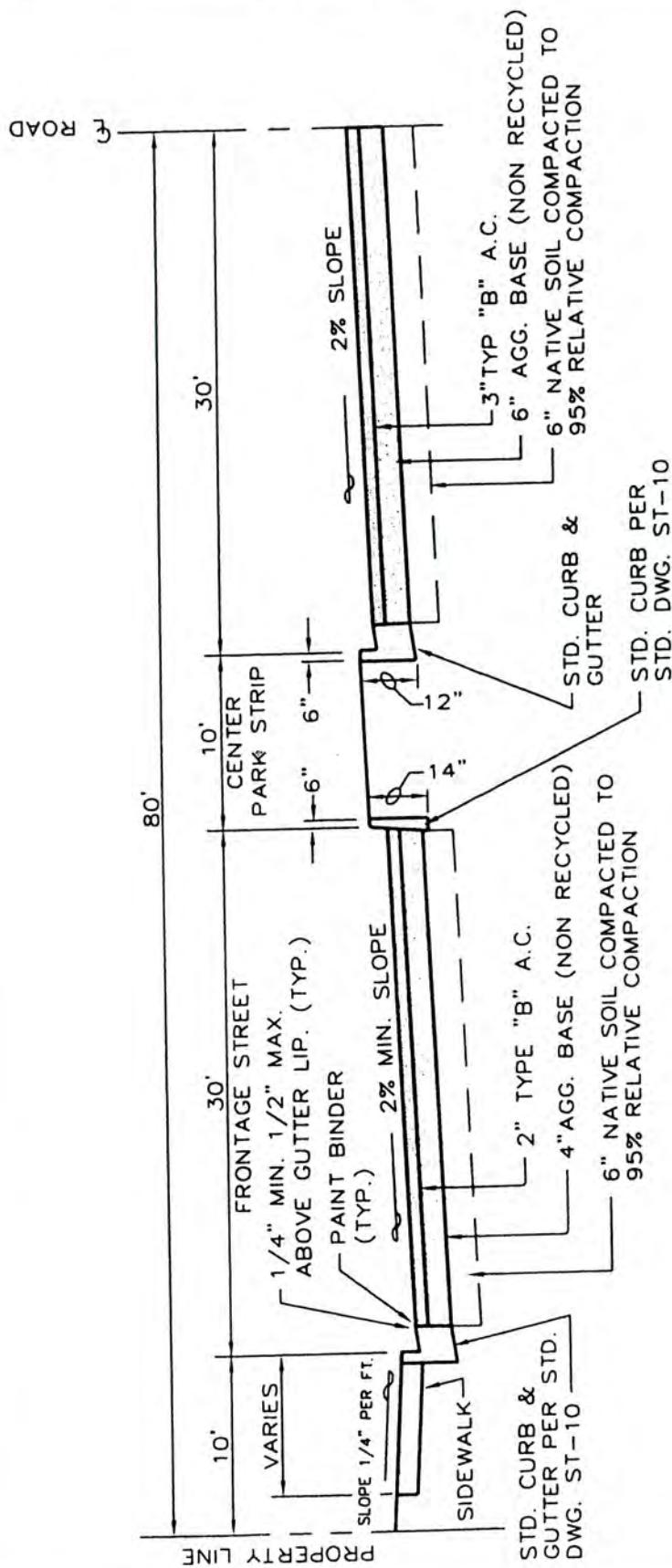
REVISION DATE	
2-97	
AUG 04	

CITY OF CHOWCHILLA

EXPRESSWAY

STD.DWG.

ST- 6



NOTES:

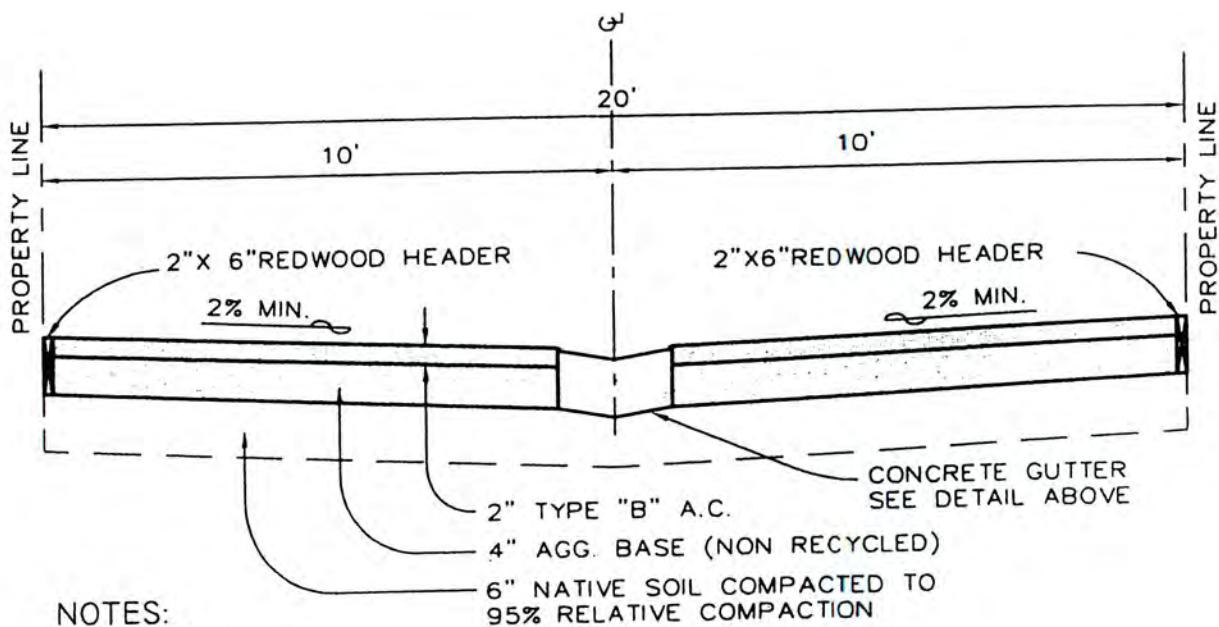
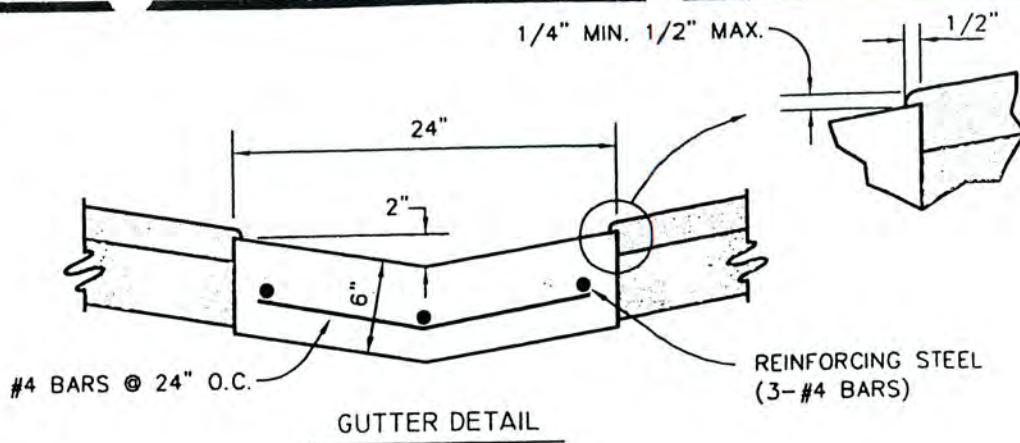
1. ASPHALTIC CONCRETE AND EARTHWORK SHALL CONFORM TO SECTIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE TO STANDARDS ST-1 AND ST-2. (SECTION SHOWN IS FOR A RESIDENTIAL ACCESS ROAD AND MAJOR COLLECTOR ADJACENT STREET).
3. FOR OTHER COMBINATIONS OF STREETS CONSULT APPROPRIATE STREET DESIGNATION FOR ADDITIONAL INFORMATION AND/OR REQUIREMENTS. ALL DESIGNS ARE SUBJECT TO REVIEW AND APPROVAL OF CITY ENGINEER.
4. CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
5. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
6. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

REVISION DATE	
AUG 04	

CITY OF CHOWCHILLA

ACCESS ROAD

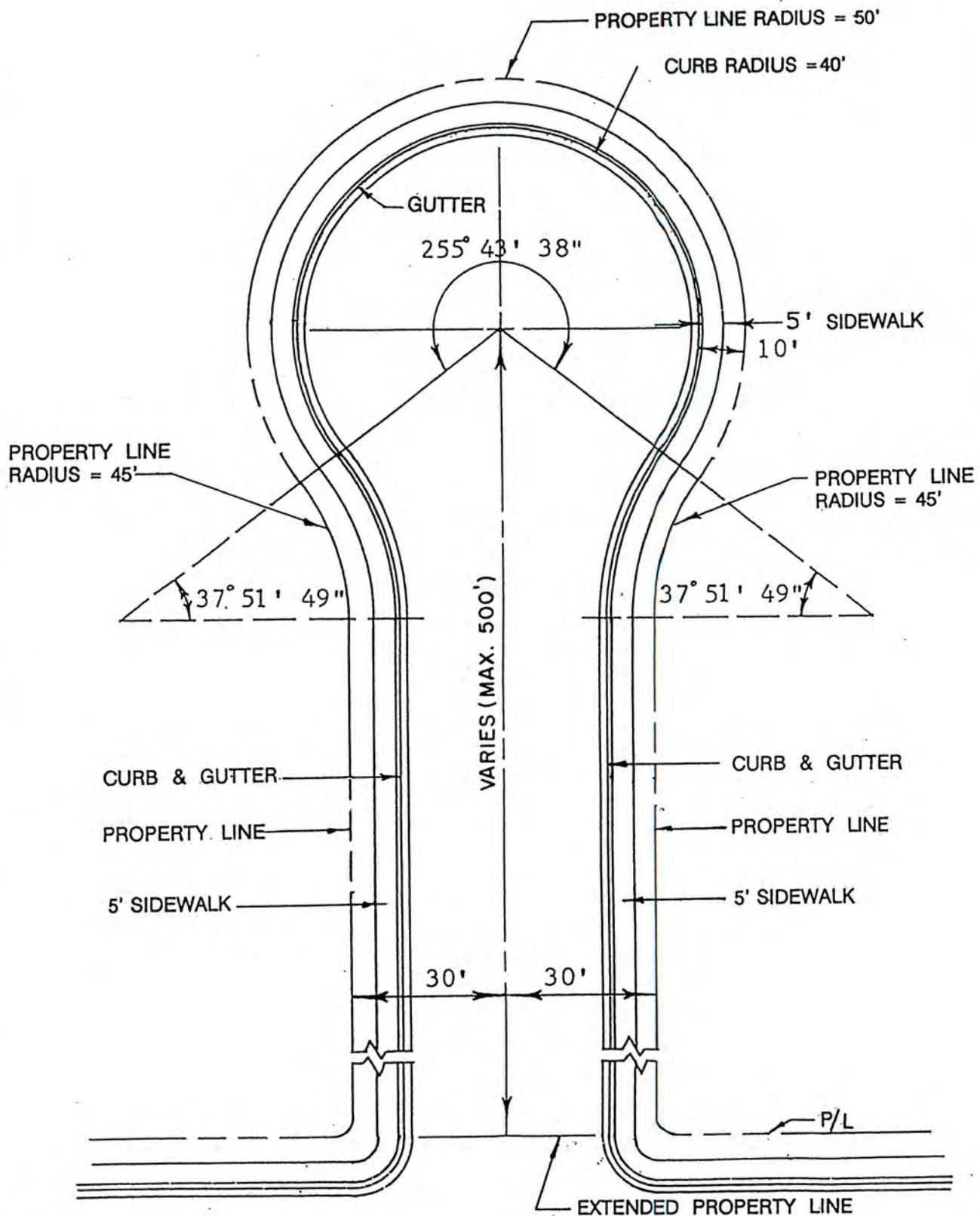
STD. DWG.
ST-7



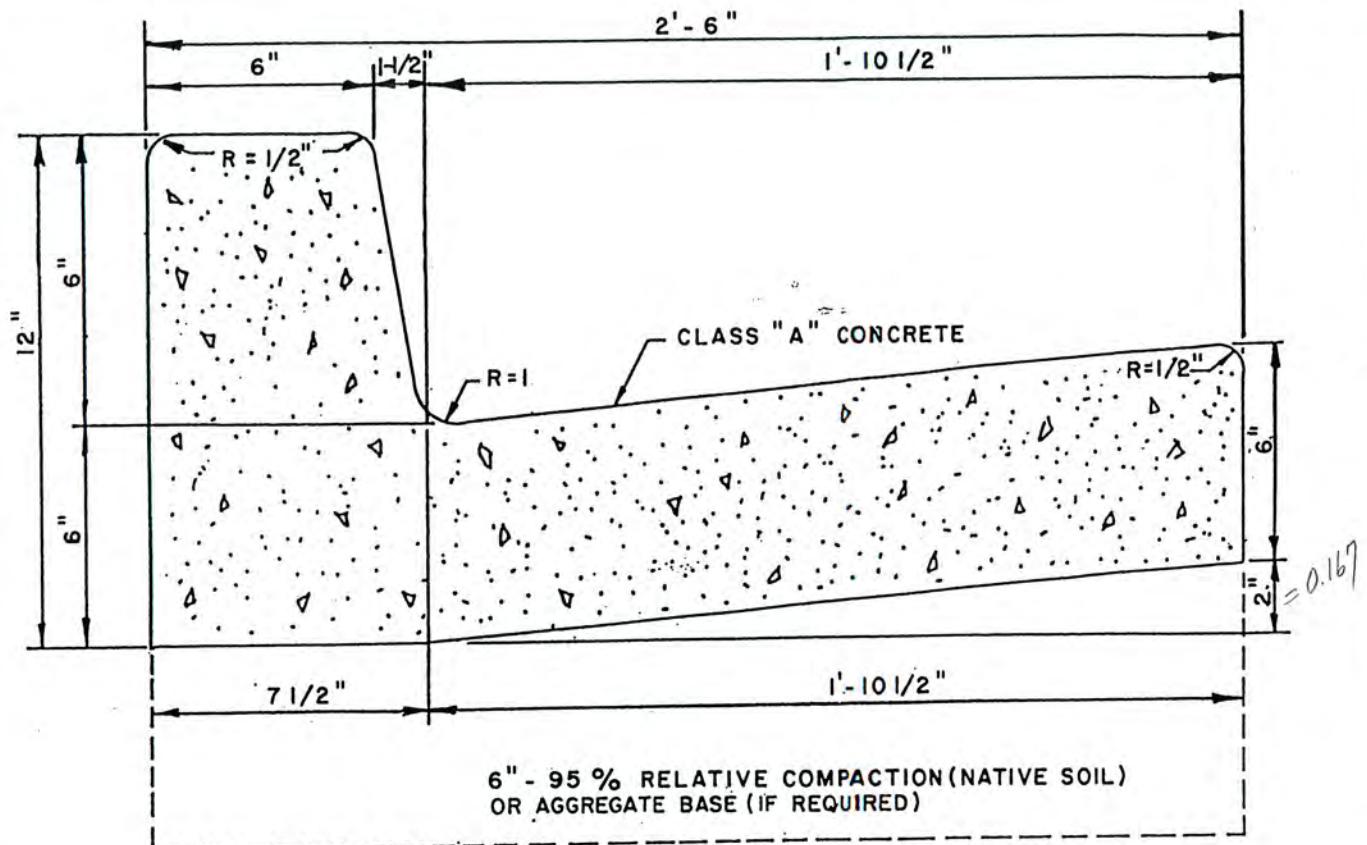
NOTES:

1. ASPHALTIC CONCRETE, AGGREGATE BASE, AND EARTHWORK SHALL CONFORM TO SECTIONS 39, 26, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1 AND ST-2 WITH A TRAFFIC INDEX = 4.
3. CONCRETE VALLEY GUTTER SHALL HAVE WEAKENED PLAN JOINTS @ 15' O.C. TOOL EDGES OF JOINT.
4. PROVIDE EXPANSION JOINT IN CONCRETE GUTTER @ 90' O.C. TOOL EDGES OF JOINT.
5. CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
6. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
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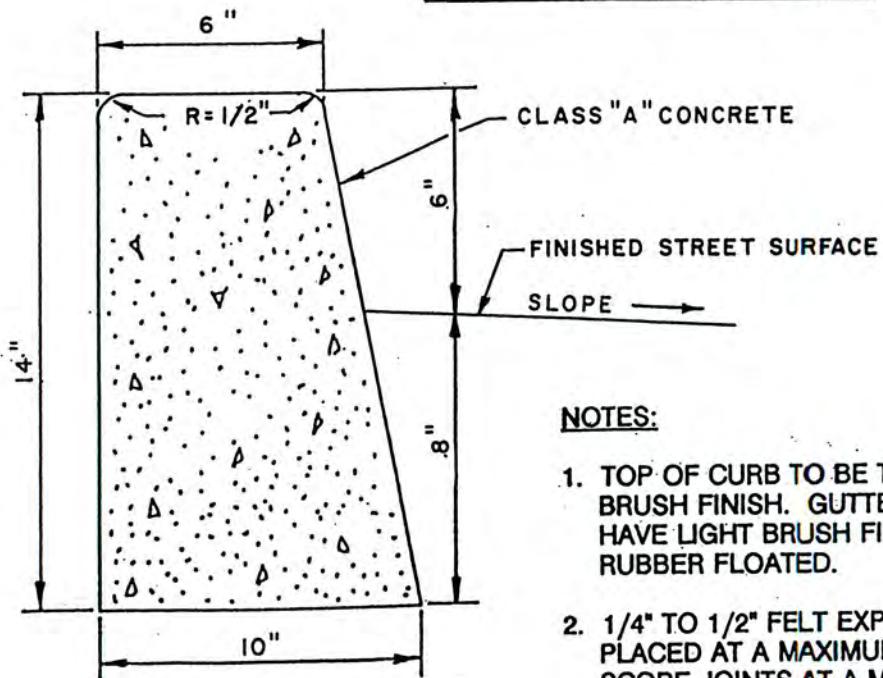
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
AUG 04			ST-8
	ALLEY		



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CUL-DE-SAC TURN-AROUND WITH ADJACENT SIDEWALK	ST-9



CURB & GUTTER DETAIL



NOTES:

1. TOP OF CURB TO BE TROWELED AND HAVE LIGHT BRUSH FINISH. GUTTER TO BE TROWELED AND HAVE LIGHT BRUSH FINISH. GUTTER TO BE RUBBER FLOATED.
2. 1/4" TO 1/2" FELT EXPANSION JOINT TO BE PLACED AT A MAXIMUM OF 40 FEET AND DEEP SCORE JOINTS AT A MAXIMUM OF 20 FEET.

CURB DETAIL

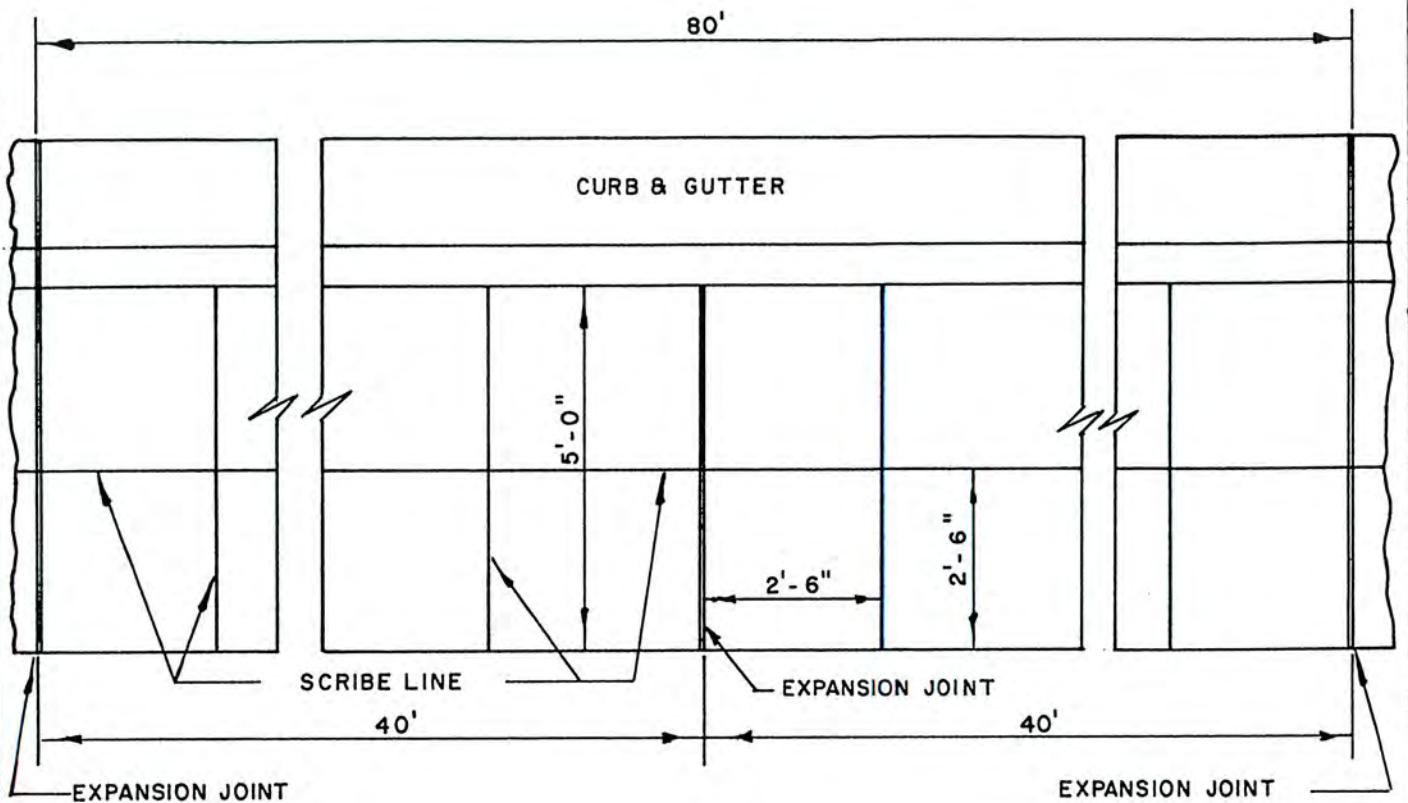
REVISION DATE

CITY OF CHOWCHILLA

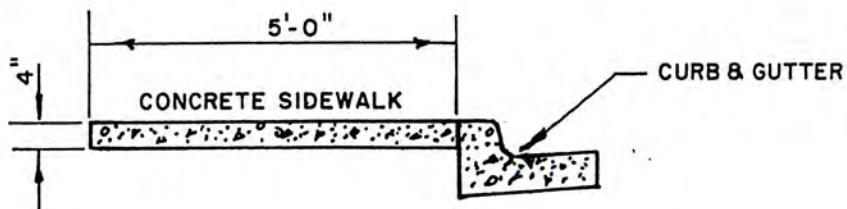
Std. Dwg.

CURB & GUTTER

ST-10



PLAN OF SIDEWALK, CURB & GUTTER, SCRIBE LINE DETAILS

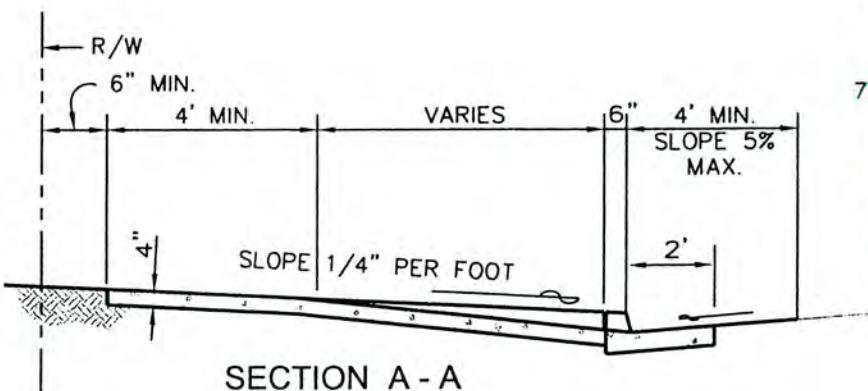
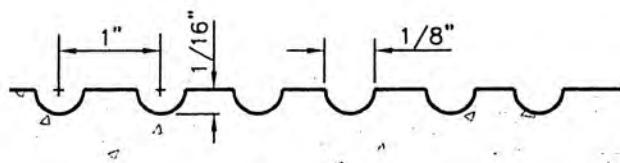
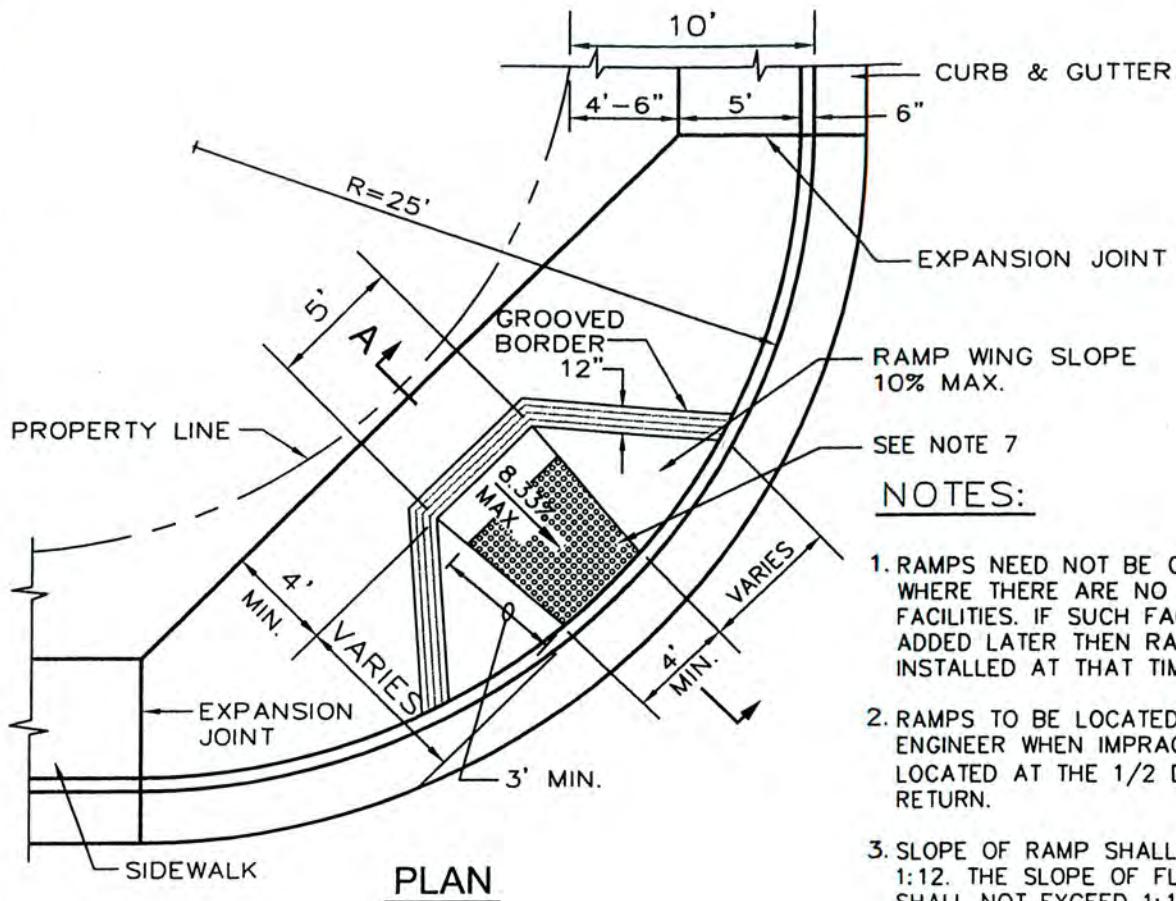


SECTION OF SIDEWALK AND CURB

NOTES:

1. WEAKENED PLANE JOINTS SHALL BE INSTALLED IN SIDEWALK AT 20' O.C. MAXIMUM.
2. EXPANSION JOINTS SHALL BE INSTALLED IN SIDEWALK AT 40' O.C. MAXIMUM.
3. EXPANSION JOINTS SHALL BE INSTALLED IN CURB & GUTTER AT 80' O.C. MAXIMUM.
4. WHERE EXPANSIVE SOILS ARE ENCOUNTERED 6" OF IMPORTED SAND SHALL BE PLACED UNDER THE CURBS, GUTTERS AND SIDEWALKS.

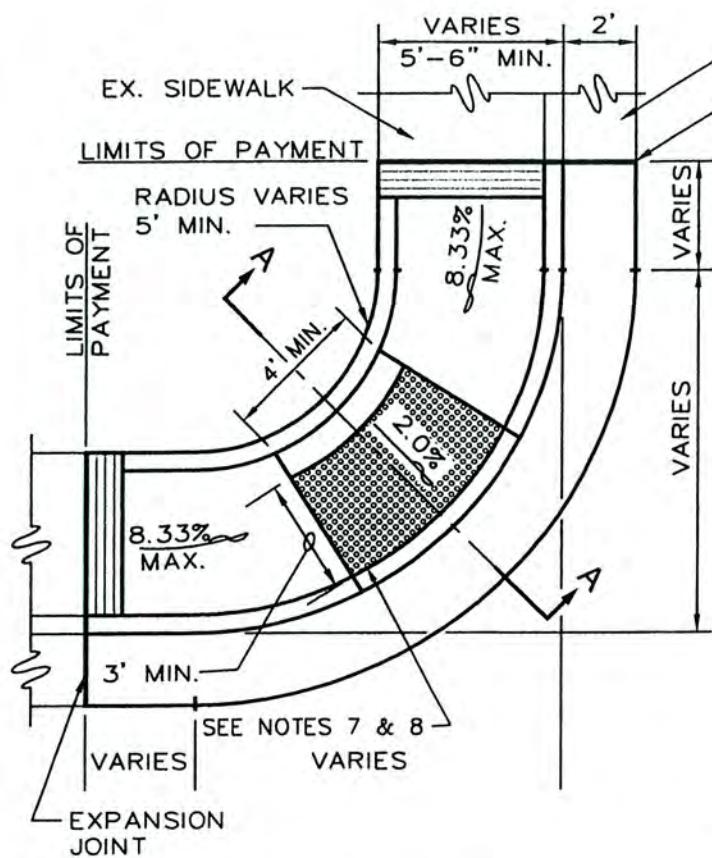
REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CURB, GUTTER & SIDEWALK	ST-11



NOTES:

1. RAMPS NEED NOT BE CONSTRUCTED WHERE THERE ARE NO PEDESTRIAN FACILITIES. IF SUCH FACILITIES ARE ADDED LATER THEN RAMPS MUST BE INSTALLED AT THAT TIME.
2. RAMPS TO BE LOCATED BY THE CITY ENGINEER WHEN IMPRACTICAL TO BE LOCATED AT THE 1/2 DELTA OF THE RETURN.
3. SLOPE OF RAMP SHALL NOT EXCEED 1:12. THE SLOPE OF FLARED SIDES SHALL NOT EXCEED 1:10.
4. A LEVEL LANDING 4' DEEP (MIN.) SHALL BE PROVIDED AT THE UPPER END OF EACH RAMP.
5. THE RAMP SHALL HAVE A 12" WIDE GROOVED BORDER AT LEVEL SURFACE OF SIDEWALK. SEE GROOVING DETAIL. THE RAMP WINGS SHALL HAVE A BROOMED SURFACE TEXTURE CONTRASTING TO THE SURROUNDING SIDEWALK.
6. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT THE CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO THE TOP OF THE RAMP.
7. ALL CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND A MINIMUM 3' DEPTH OF THE RAMP, PER CALTRANS STANDARD DETAIL PLATE A88A, WHICH CONSISTS OF RASED TRUNCATED DOMES 0.2" HIGH BY 1.6 - 2.4" O.C.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
2-97	2-21-06		
2-24-03			ST-12A
7-2-04			

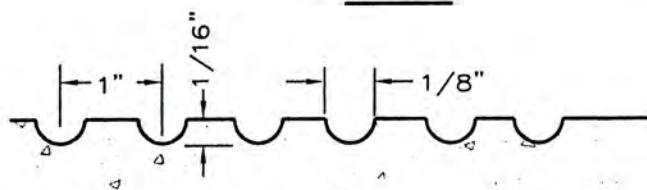


CURB & GUTTER
EXPANSION JOINT

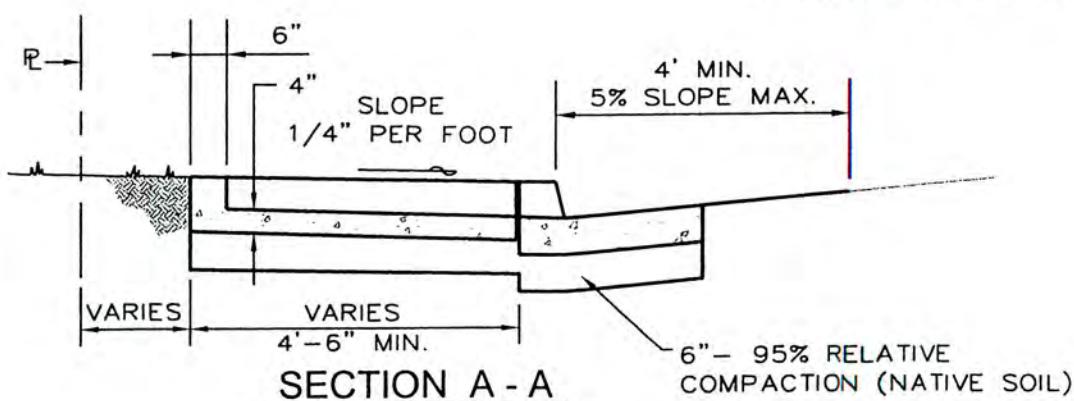
NOTES:

1. RAMPS NEED NOT BE CONSTRUCTED WHERE THERE ARE NO PEDESTRIAN FACILITIES. IF SUCH FACILITIES ARE ADDED LATER THEN RAMPS MUST BE INSTALLED AT THAT TIME.
2. RAMPS TO BE LOCATED BY THE CITY ENGINEER WHEN IMPRACTICAL TO BE LOCATED AT CENTERLINE OF RADIUS.
3. SLOPE OF RAMP SHALL NOT EXCEED 1:12.
4. A LANDING 4' DEEP (MIN.) WITH A SLOPE OF 2% SHALL BE PROVIDED ADJACENT TO CURB RETURN. LANDING SHALL HAVE A BROOM FINISH.
5. THE RAMP SHALL HAVE A 12" WIDE GROOVED BORDER AT LEVEL SURFACE OF SIDEWALK. SEE GROOVING DETAIL. THE RAMP SHALL HAVE A BROOMED SURFACE TEXTURE CONTRASTING TO THE SURROUNDING SIDEWALK.
6. RAMP SIDE SLOPE SHALL BE 2% ALL DEVIATIONS SHALL BE APPROVED BY THE CITY ENGINEER.
7. ALL CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND A MINIMUM 3' DEPTH OF THE CURB RAMP, PER CALTRANS STANDARD DETAIL PLATE A88A, WHICH CONSISTS OF RAISED TRUNCATED DOMES 0.2" HIGH BY 1.6 - 2.4" O.C.
8. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE
9. USE OF THIS RAMP SUBJECT TO APPROVAL BY CITY ENGINEER.

PLAN

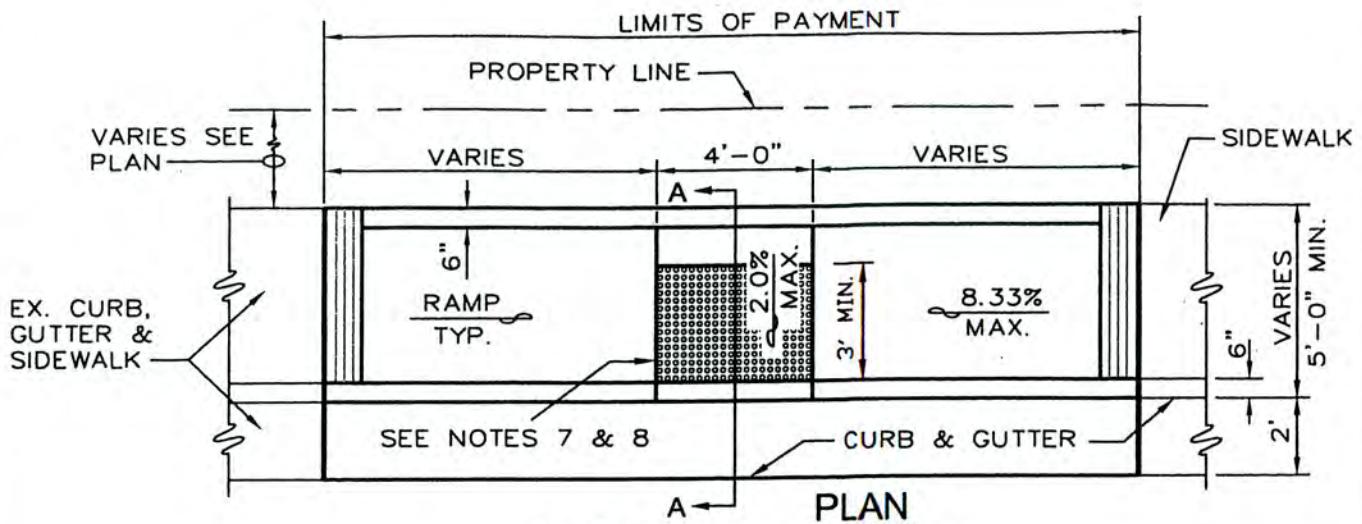


GROOVING DETAIL



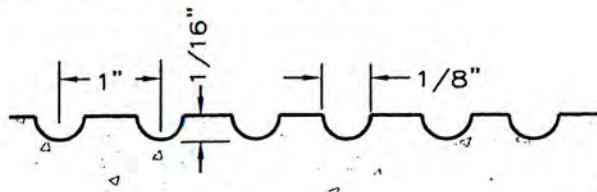
SECTION A - A

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
2-24-03		
7-2-04	CURB RAMP-TYPE B	ST-12B
2-21-06		

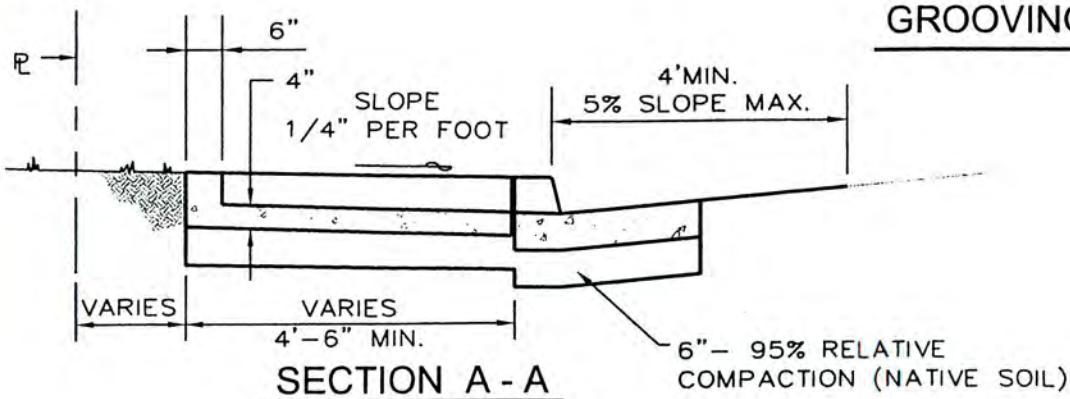


NOTES:

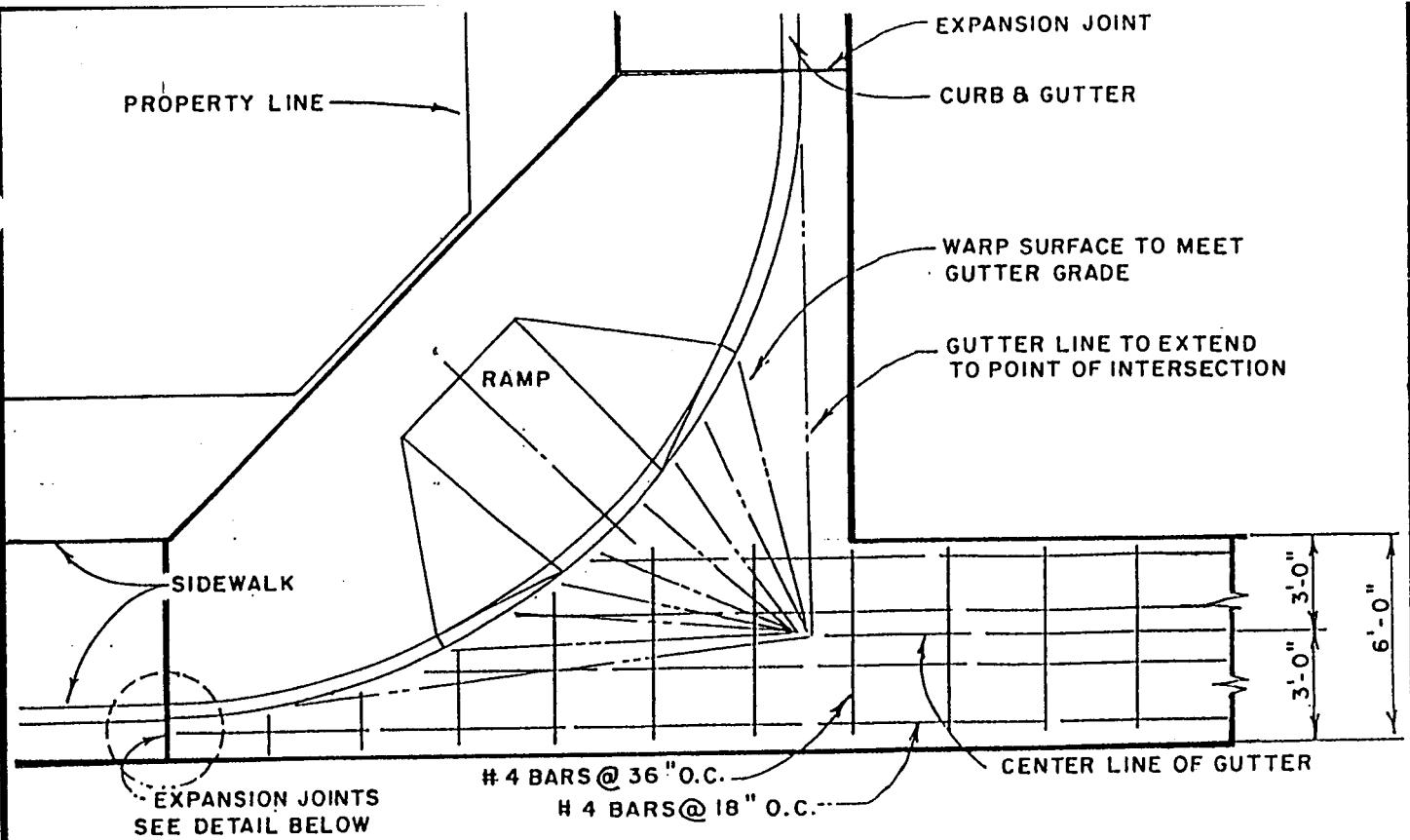
1. RAMPS NEED NOT BE CONSTRUCTED WHERE THERE ARE NO PEDESTRIAN FACILITIES. IF SUCH FACILITIES ARE ADDED LATER THEN RAMPS MUST BE INSTALLED AT THAT TIME.
2. RAMPS TO BE LOCATED BY THE CITY ENGINEER.
3. SLOPE OF RAMP SHALL NOT EXCEED 1:12.
4. A LANDING 4' DEEP (MIN.) WITH A SLOPE OF 2% SHALL BE PROVIDED ADJACENT TO CURB. LANDING SHALL HAVE A BROOM FINISH.
5. THE RAMP SHALL HAVE A 12" WIDE GROOVED BORDER AT LEVEL SURFACE OF SIDEWALK. SEE GROOVING DETAIL. THE RAMP SHALL HAVE A BROOMED SURFACE TEXTURE CONTRASTING TO THE SURROUNDING SIDEWALK.
6. RAMP SIDE SLOPE SHALL BE 2% ALL DEVIATIONS SHALL BE APPROVED BY THE CITY ENGINEER.
7. ALL CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND A MINIMUM 3' DEPTH OF THE CURB RAMP, PER CALTRANS STANDARD DETAIL PLATE A88A, WHICH CONSISTS OF RAISED TRUNCATED DOMES 0.2" HIGH BY 1.6 - 2.4" O.C.
8. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE
9. USE OF THIS RAMP SUBJECT TO APPROVAL BY CITY ENGINEER.



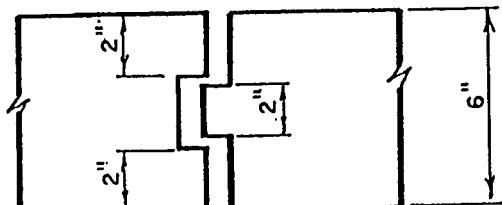
GROOVING DETAIL



REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
2-24-03		
7-02-04	CURB RAMP-TYPE C	ST-12C
2-21-06		



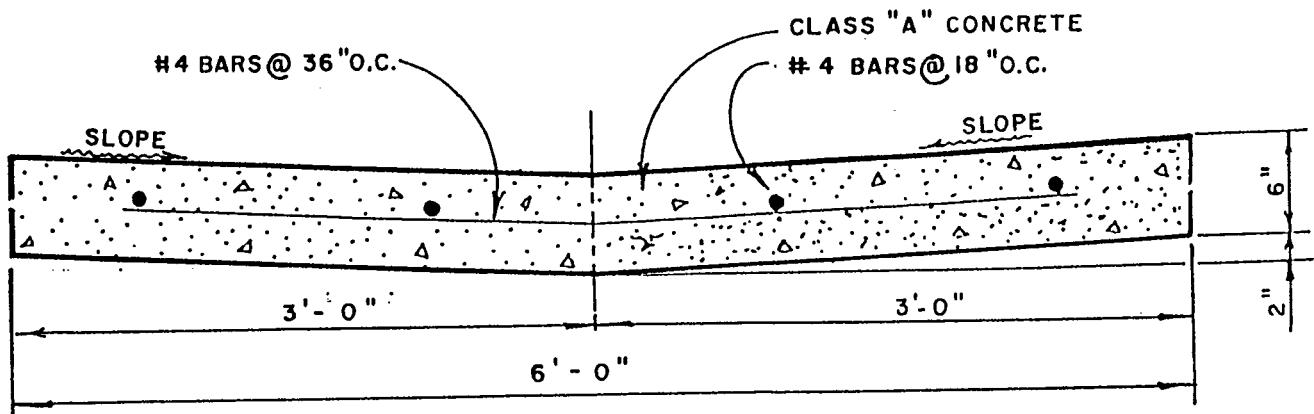
PLAN



NOTE:

1. COMPACT SUBGRADE (6" MIN.) TO 95% RELATIVE COMPACTION PER ASTM D - 2937 & D - 1557.

EXPANSION JOINT



SECTION

REVISION DATE

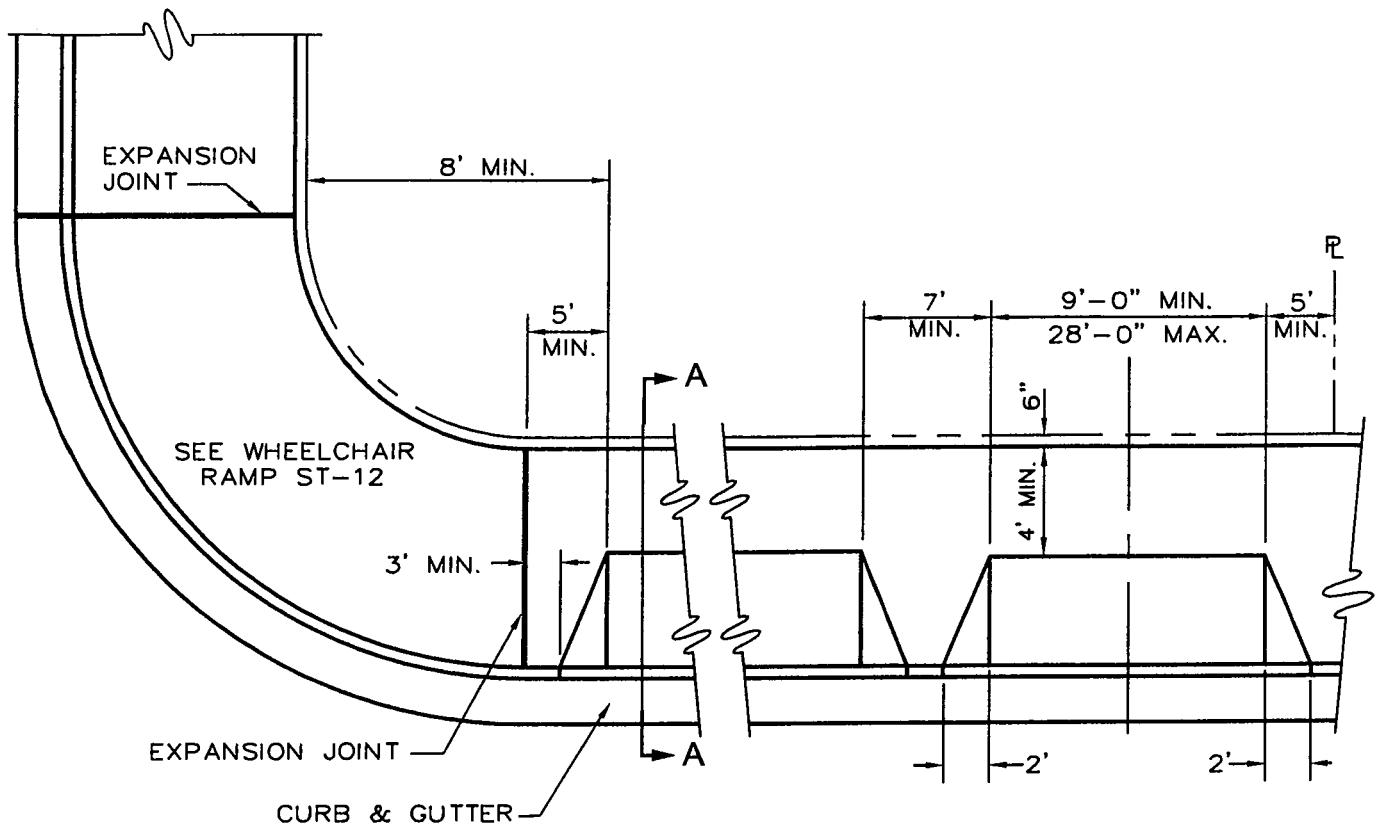
2-97

CITY OF CHOWCHILLA

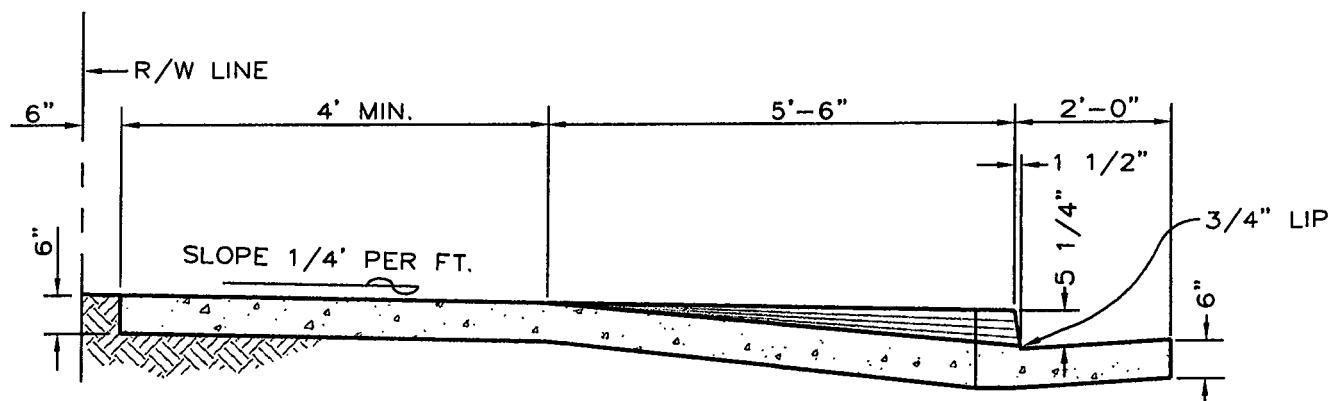
Std. Dwg.

CONCRETE VALLEY GUTTER
STREET INTERSECTION

ST-13



PLAN

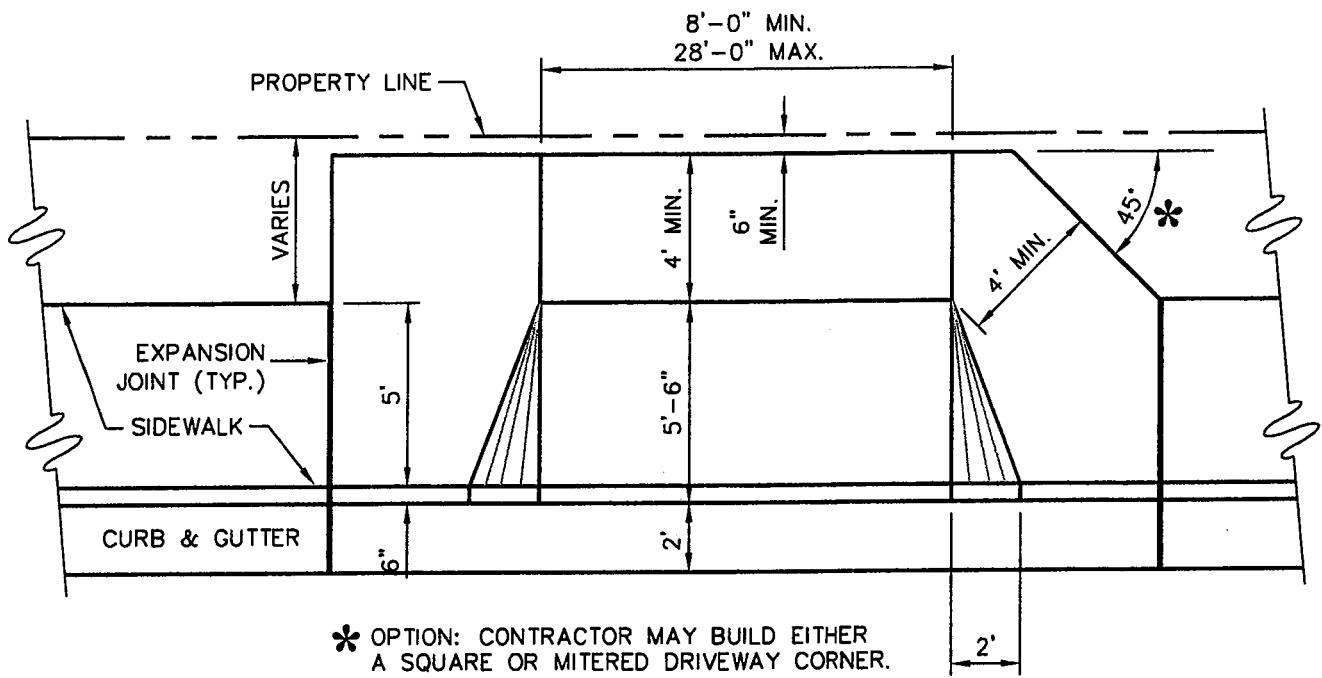


SECTION A - A

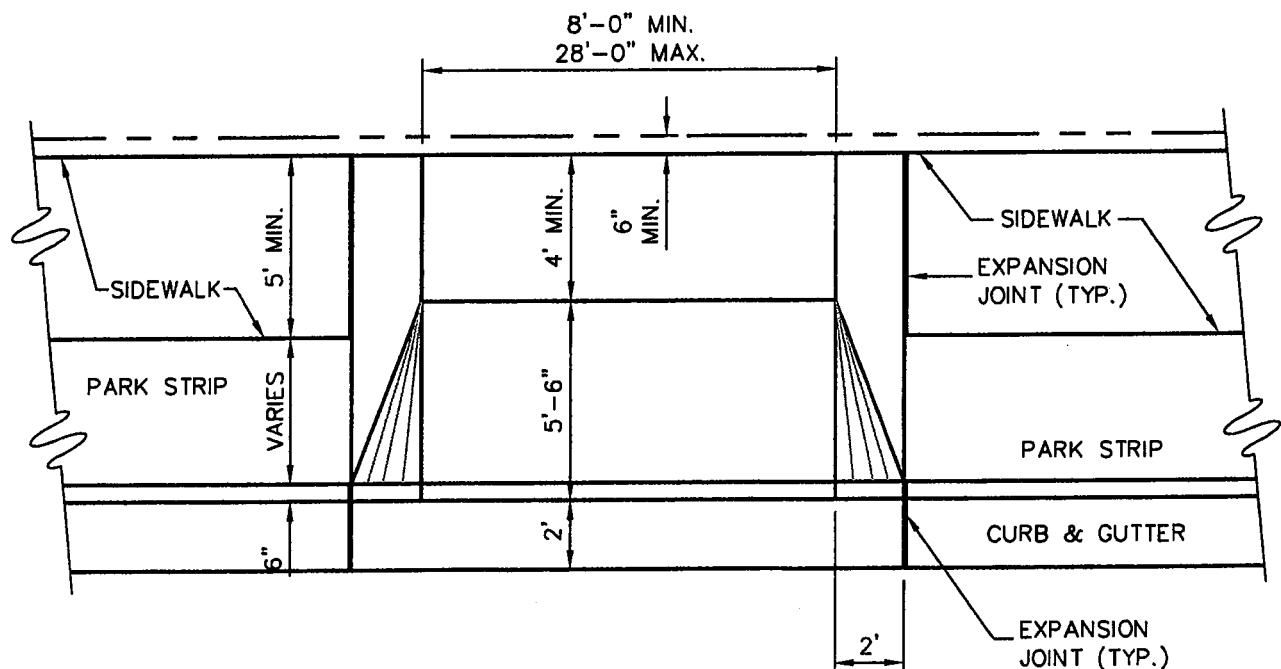
NOTE:

1. NOT MORE THAN 60% OF THE PROPERTY FRONTAGE MAY BE USED FOR DRIVEWAY OPENING.
2. END OF DRIVEWAY WING SHALL BE 8' MINIMUM FROM STREET RIGHT-OF-WAY LINE AND 3' MINIMUM FROM END OF CURB RETURN.
3. ALL CONSTRUCTION SHALL BE 6 SACK CONCRETE.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
10-9-06			
		RESIDENTIAL DRIVE APPROACH	ST-14
			SHT. 1 OF 2

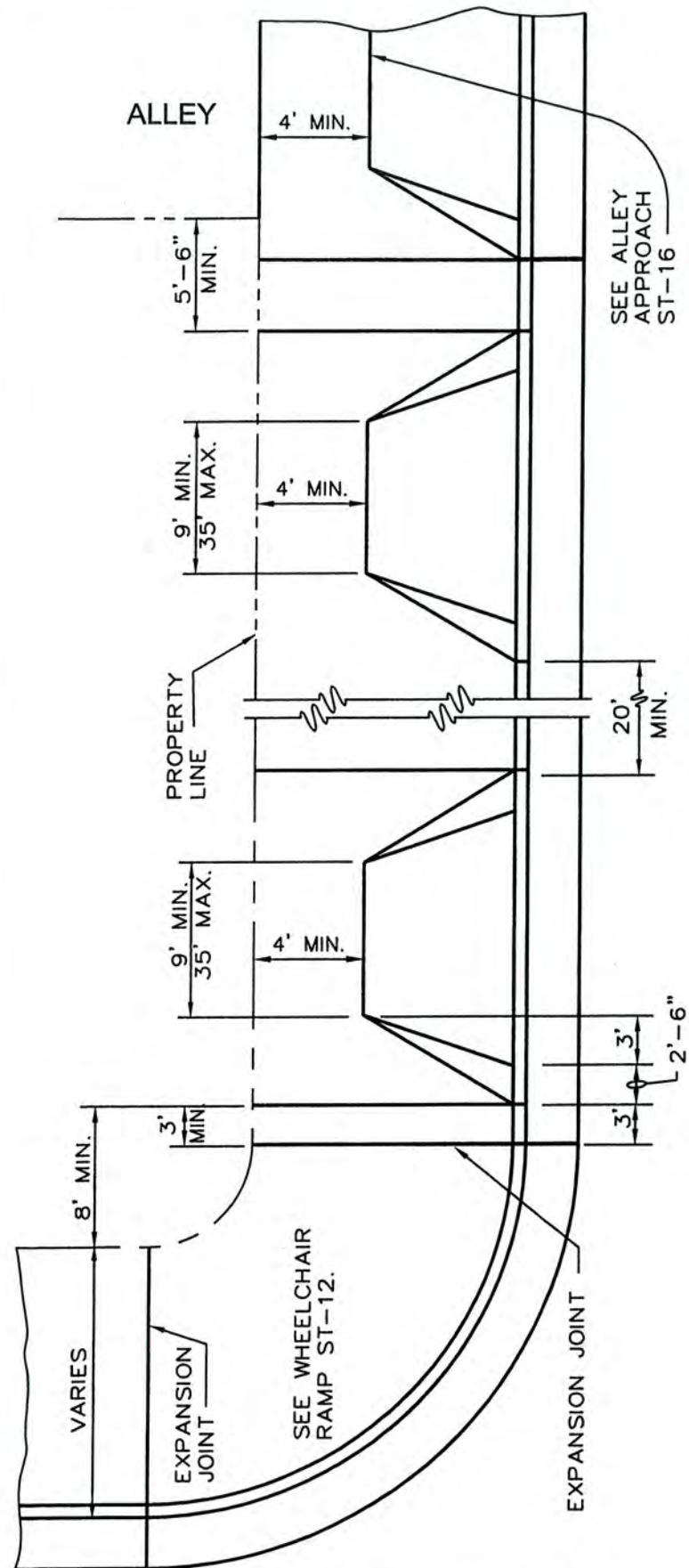


CONTIGUOUS SIDEWALK



SETBACK SIDEWALK

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
DRAFT			ST-14
	RESIDENTIAL DRIVE APPROACH		SHT. 2 OF 2

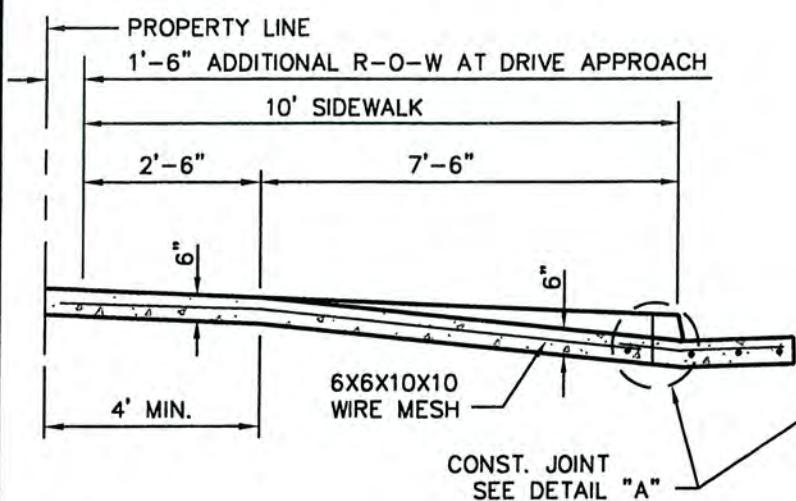


STANDARD COMMERCIAL CURB, GUTTER AND SIDEWALK

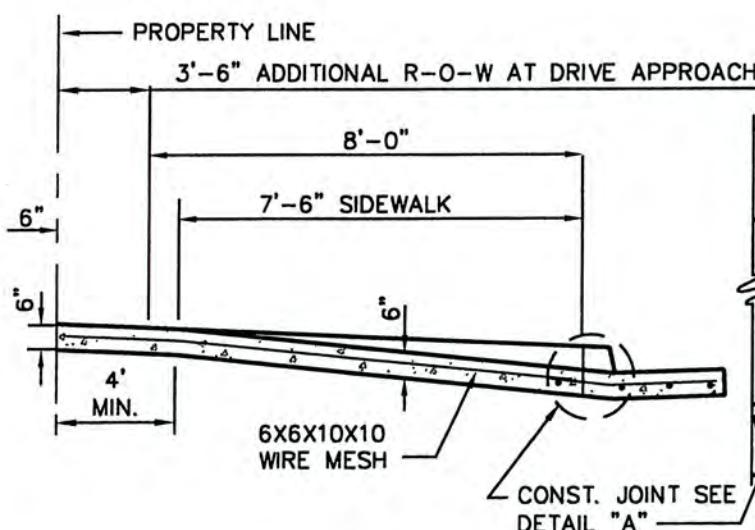
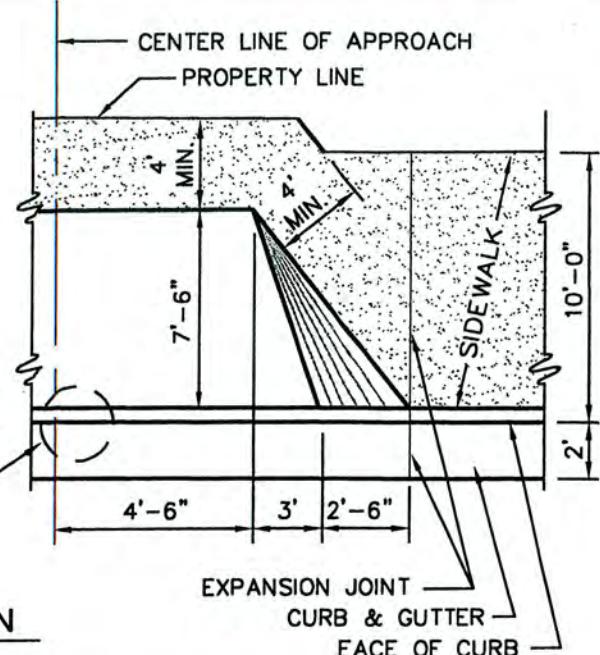
NOTE:

1. NOT MORE THAN 60% OF THE PROPERTY FRONTRAGE MAY BE USED FOR DRIVEWAY OPENING.
2. END OF DRIVEWAY WING SHALL BE 8' MINIMUM FROM STREET RIGHT-OF-WAY LINE AND 3' MINIMUM FROM END OF CURB RETURN.
3. ALL CONSTRUCTION SHALL BE 6 SACK PER CUBIC YARD CONCRETE.
4. STANDARD COMMERCIAL DRIVE APPROACH FOR T.I. OF 6-7 OR LESS.
5. HEAVY COMMERCIAL DRIVE APPROACHES SEE STANDARD ST-15 SHEET 3 OF 3 FOR MINIMUM REQUIREMENTS.
6. ADDITIONAL RIGHT-OF-WAY SHALL BE TAKEN AT DRIVE APPROACHES TO ACCOMMODATE ADA REQUIREMENTS FOR PASSAGE BEHIND DRIVEWAY RAMPS.

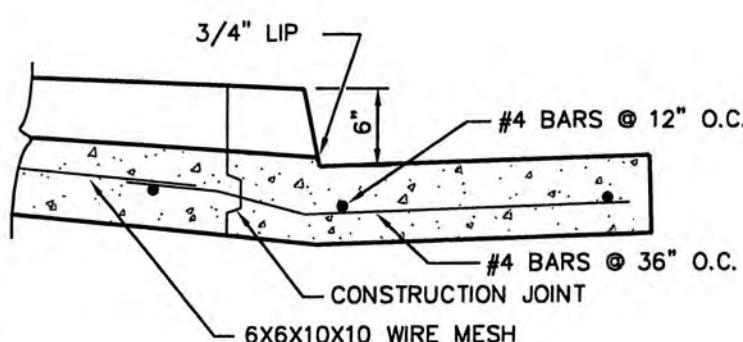
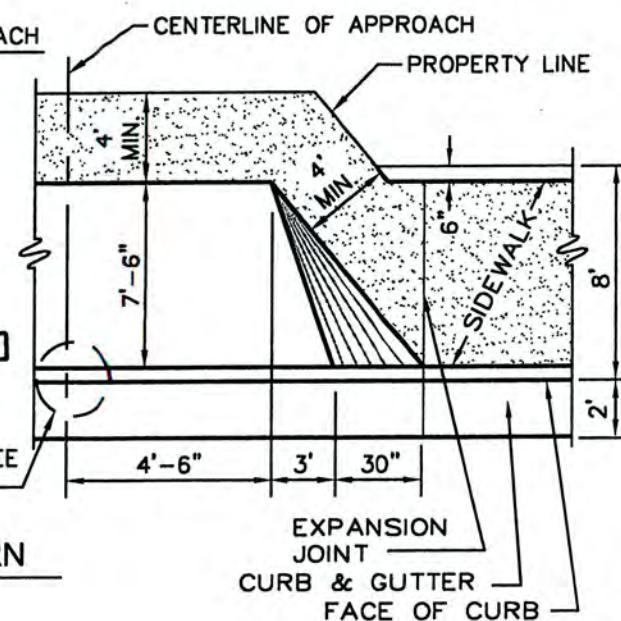
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
6-97			
10-9-06	COMMERCIAL DRIVE APPROACH		ST-15 1 OF 3



10' PATTERN



8' PATTERN



DETAIL "A"

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
2-97			
6-97			ST-15
10-9-06	COMMERCIAL DRIVE APPROACH		2 OF 3

HEAVY COMMERCIAL AND INDUSTRIAL DRIVE APPROACHES STANDARD FOR TRAFFIC INDEX EXCEEDING 7

NOTES:

1. MINIMUM REINFORCEMENT SHALL BE #4 BARS AT 12 INCHES O.C. BOTH WAYS.
2. BASEMENT SOIL MATERIAL R-VALUE SHALL NOT BE LESS THAN 40 TESTED BY A QUALIFIED TESTING LABORATORY.
3. THE MINIMUM THICKNESS SHALL BE AS FOLLOWS:

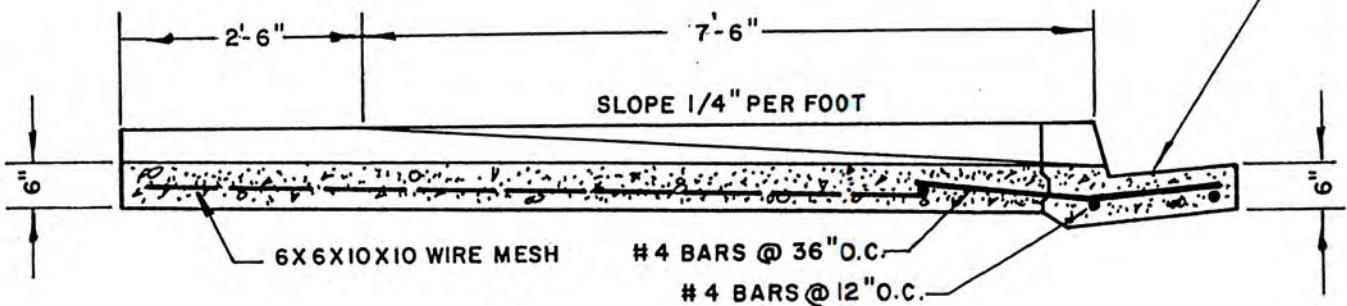
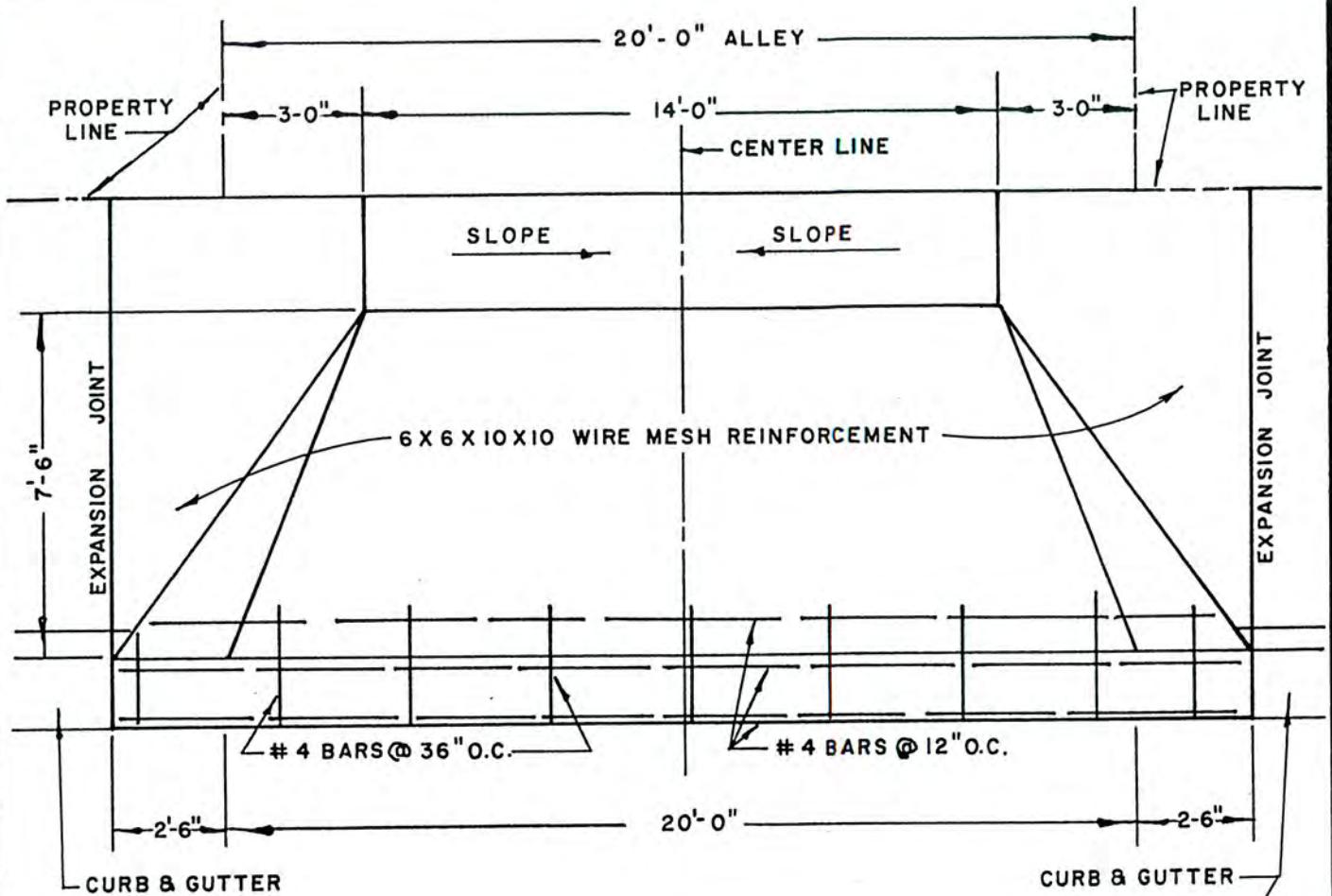
T.I.	PCCP MM - INCHES	TREATED PERMEABLE BASE ¹ (ATPB) (CTPB) MM - INCHES	AGGREGATE BASE MM - INCHES	SUBBASE AS MM - INCHES	BASE ² LCB, ACB MM - INCHES	
					105 4	120 4 3/4
7 1/2 - 8	185 7 1/4	105 4	105 4	-	105 4	120 4 3/4
8 1/2 - 10	215 8 1/2	105 4	120 4 3/4	-	120 4 3/4	120 4 3/4
10 1/2 - 12	230 9	105 4	120 4 3/4	-	120 4 3/4	120 4 3/4
12 +	260 10 1/4	105 4	105 4	105 4	150 6	

1. THE STANDARD THICKNESS UNDER PCCP FOR BOTH ATPB AND CTPB IS 105 MM WHICH ALLOWS THE CONTRACTOR THE OPTION TO CHOOSE THE MOST ECONOMICAL BASE.
2. CTB WITH A 30 MM DGAC CAP MAY BE USED ONLY UNDER SPECIAL CONDITIONS WITH THE APPROVAL OF CITY ENGINEER.

LEGEND

LCB	= LEAN CONCRETE BASE
ACB	= ASPHALT CONCRETE BASE
ATPB	= ASPHALT TREATED PERMEABLE BASE
CTPB	= CEMENT TREATED PERMEABLE BASE
AB	= AGGREGATE BASE
AS	= AGGREGATE SUBBASE

REVISION DATE	CITY OF CHOWCHILLA			Std. Dwg.
6-97				ST-15
				3 OF 3
			COMMERCIAL DRIVE APPROACH	



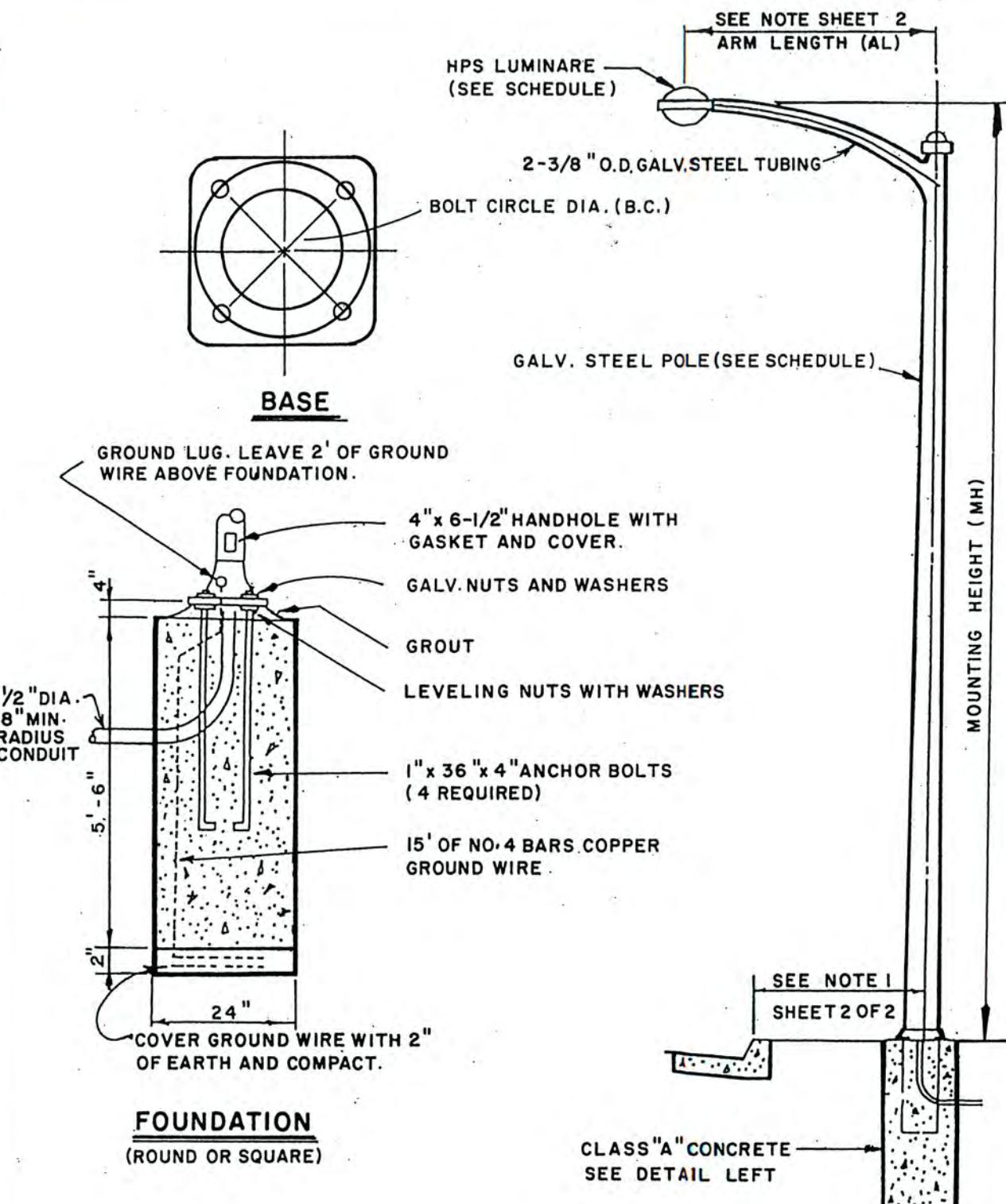
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

ALLEY APPROACH

ST-16



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	STREET LIGHT ELECTROLIERS	ST-17
		1 OF 2

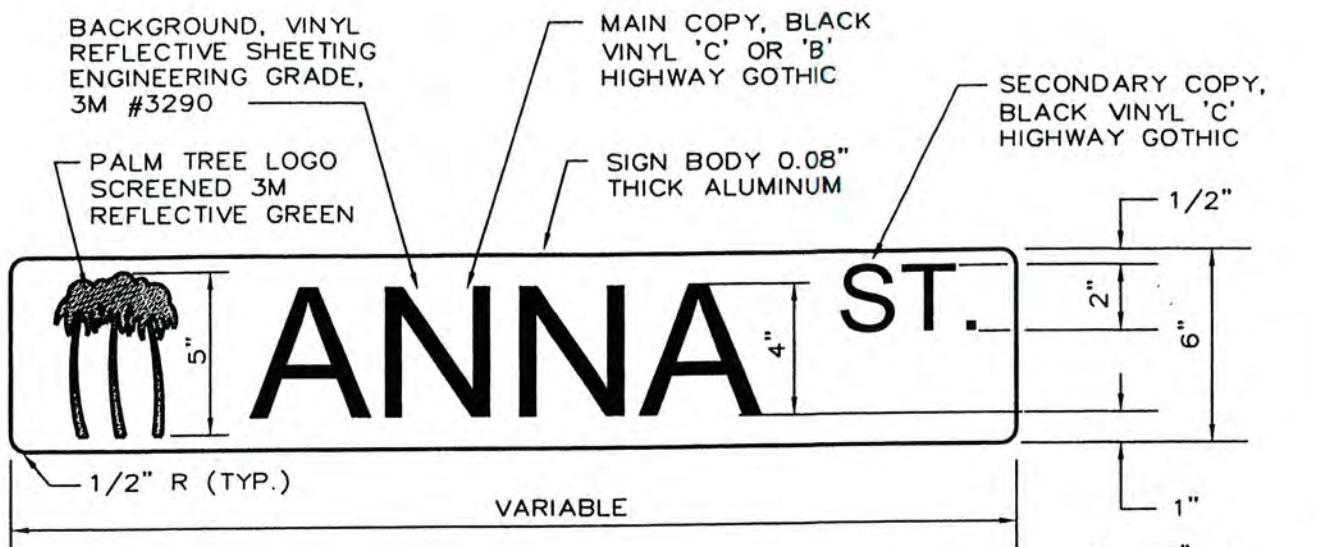
STREET LIGHT ELECTROLIERS

NOTES:

1. IN RESIDENTIAL AREAS HAVING CONTIGUOUS SIDEWALKS, POLES SHALL BE CENTERED 12" BEHIND REAR EDGE OF SIDEWALK AND ELECTROLIERS SHALL HAVE 8'-0" ARM LENGTH (AL). IN ALL OTHER CONDITIONS POLE SHALL BE CENTERED 2'-0" FROM FACE OF CURB.
2. LUMINARES SHALL BE HIGH PRESSURE SODIUM CONFORMING TO ANSI C78, WITH POLYCARBONATE REFRACTORS AND NEMA STANDARD PHOTOELECTRIC UNITS.
3. ONE ELECTROLIER SHALL BE LOCATED AT EACH INTERSECTION. SEE SCHEDULE FOR INTERMEDIATE SPACING REQUIREMENTS.
4. WIRING SHALL BE MINIMUM #8 COPPER, THW INSULATION, ENCLOSED IN APPROVED ELECTRICAL CONDUITS.
5. ALL SPLICES SHALL BE WATERTIGHT AND MADE IN APPROVED JUNCTION BOXES.
6. PULL BOXES SHALL BE 12" X 22" REINFORCED CONCRETE WITH REINFORCED CONCRETE LIDS MARKED "STREET LIGHTING". BOXES SHALL BE SET ON 6" OF CRUSHED ROCK AND FLUSH WITH FINISH GRADE. CONDUIT ENTRIES SHALL BE SEALED WITH GROUT. BONDING JUMPER AND GROUNDING BUSHINGS SHALL BE CONNECTED TO EACH CONDUIT. WHEN PULL BOXES ARE INSTALLED IN TRAFFIC AREAS, BOXES SHALL HAVE A CONCRETE FOUNDATION AND STEEL TRAFFIC LID.
7. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM INCLUDING ALL MATERIALS AND LABOR. ALL INSTALLATION AND CONNECTION CHARGES SHALL BE PAID BY THE CONTRACTOR.
8. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE CITY ENGINEER AND SHALL BE TESTED AT THE CONTRACTOR'S EXPENSE, FOR PROPER OPERATION, PRIOR TO FINAL APPROVAL AND ACCEPTANCE.
9. THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS SHOWING THE LOCATIONS OF ALL CONDUITS AND PULL BOXES PRIOR TO FINAL APPROVAL AND ACCEPTANCE.

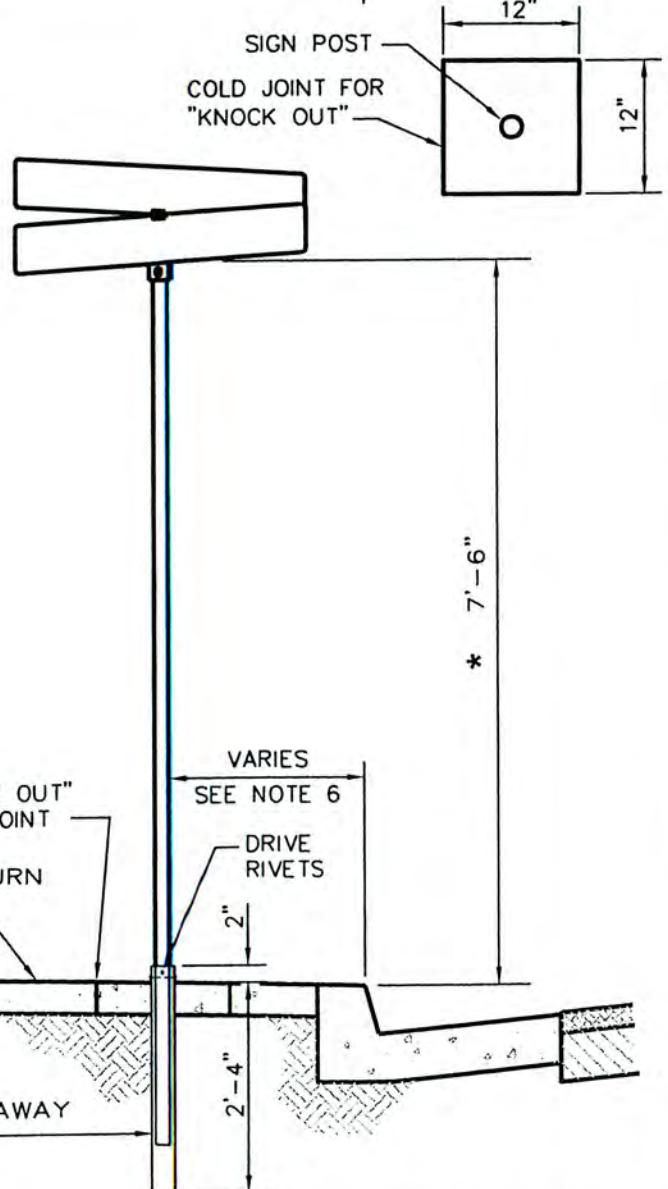
STREET WIDTH	STREET TYPE	MH	AL	BC	POLE SIZE	LUMINARE VOLTS- WATTS		POLE SPACING
60'	RESIDENTIAL	26'-0"	6'-0"	10"	7.0"X3.5"X25'-0", 11GA.	120	100	180'-240'
80'	MAJOR COLLECTOR	29'-6"	8'-0"	11"	7.5"X3.5"X28'-6", 11GA.	120	150	180'-220'
80'	MAJOR ARTERIAL	31'-0"	8'-0"	11"	8.0"X3.8"X30'-0", 11GA.	120	250	160'-200'
96'	EXPRESSWAY	31'-0"	8'-0"	11"	8.0"X3.8"X30'-0", 11GA.	120	250	150'-180'

REVISION DATE	CITY OF CHOWCHILLA			Std. Dwg
4-30-96				ST-17
				2 OF 2

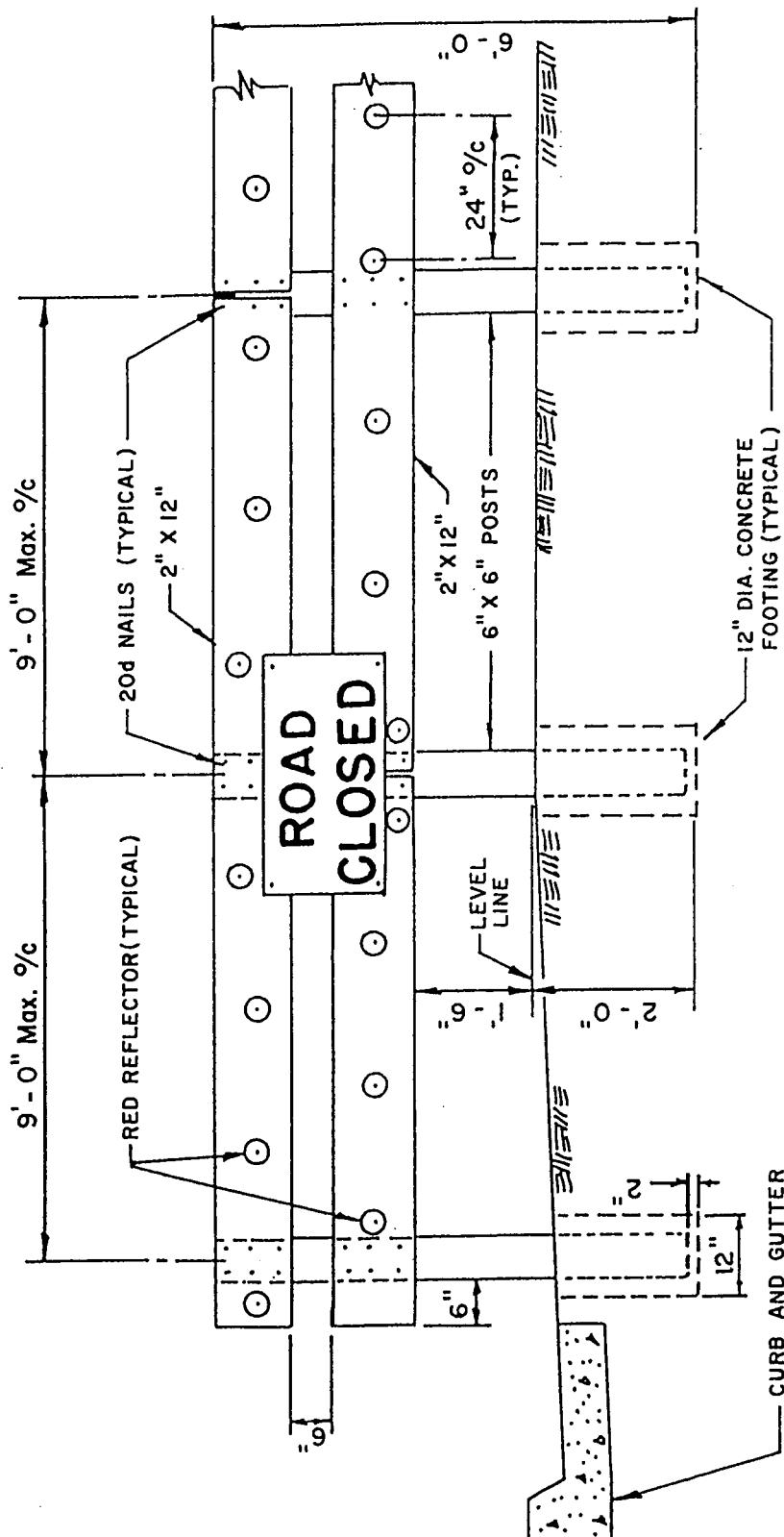


NOTES

1. STREET SIGNS SHALL BE CAL TRAFFIC, SERIES CALIFORNIA AVAILABLE AT CAL TRAFFIC, 3645 MITCHELL RD. SUITE A, CERES, CALIFORNIA 95307 TELEPHONE (209) 531-9947.
2. STREET SIGNS SHALL BE LOCATED ON THE NE & SW INTERSECTION CORNERS.
3. WHEN SIGN POST IS TO BE SET INTO NATIVE SOIL, IT SHALL BE SET IN A 12" DIAMETER, 24" DEEP, 5 SACK CONCRETE FOOTING.
4. SIGN POST SHALL BE A 12 GA. 2" SQUARE PERFORATED STEEL POST WITH A TWO PIECE BREAKAWAY ANCHOR SLEEVE, BY UNISTRUT CORPORATION, OR APPROVED EQUAL.
5. SIGN MOUNTING FIXTURES AND HARDWARE SHALL BE HAWKINS STYLE #808 EX.
6. 12" WITH CONTIGUOUS SIDEWALK, 24" WITH NON-CONTIGUOUS SIDEWALK.



REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
4-26-96			
12-13-99	STREET NAME SIGN		ST- 18
2-21-06			



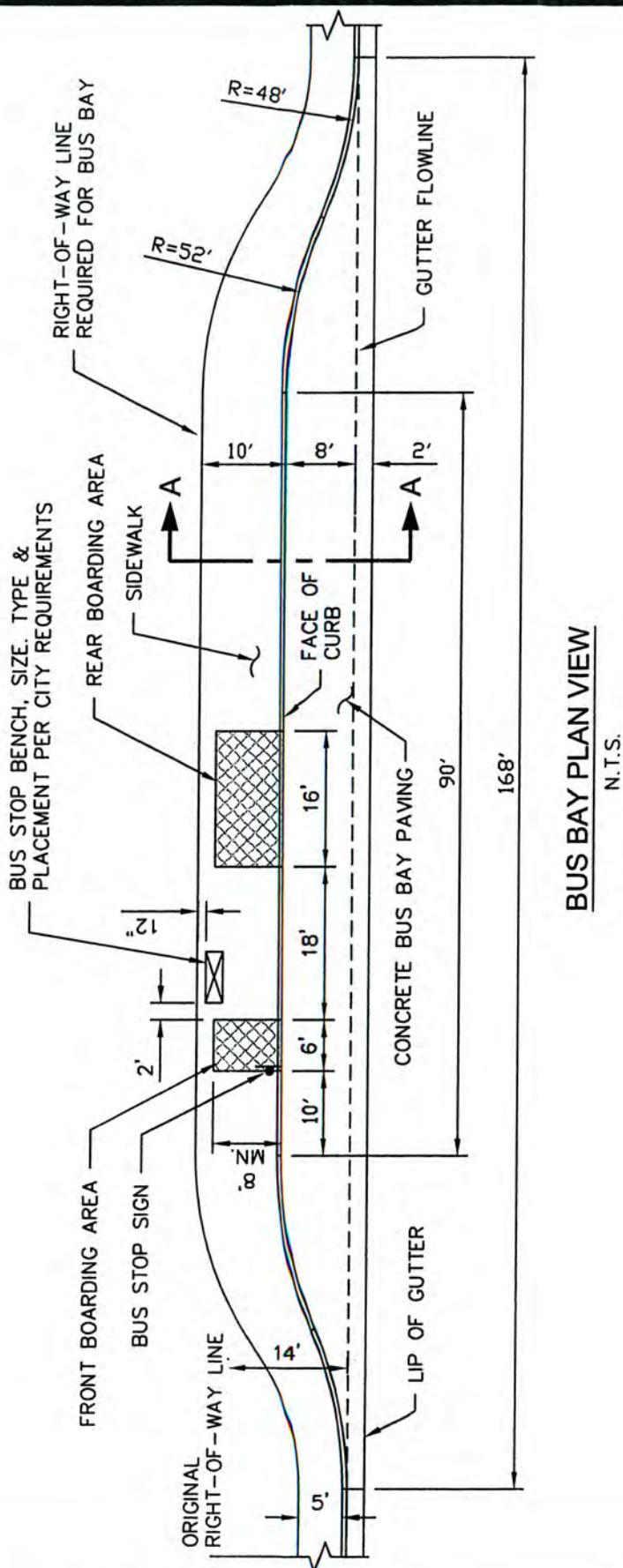
NOTE:

1. BARRICADES MUST BE CONSTRUCTED THE FULL WIDTH OF PAVEMENT OR TRAVELED WAY.
2. APPLY 2 COATS OF EXTERIOR WHITE PAINT TO ALL EXPOSED WOOD SURFACES.
3. POSTS SET IN CONCRETE SHALL BE PRE-TREATED OR TREATED WITH WOOD PRESERVATIVE PRIOR TO SETTING.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	TEMPORARY TIMBER BARRICADE	ST-19

NOTES:

1. SEE SHEET 2 OF 2 FOR SECTION A-A, EXPANSION JOINT DETAIL.
2. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
3. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.



REVISION DATE

CITY OF CHOWCHILLA

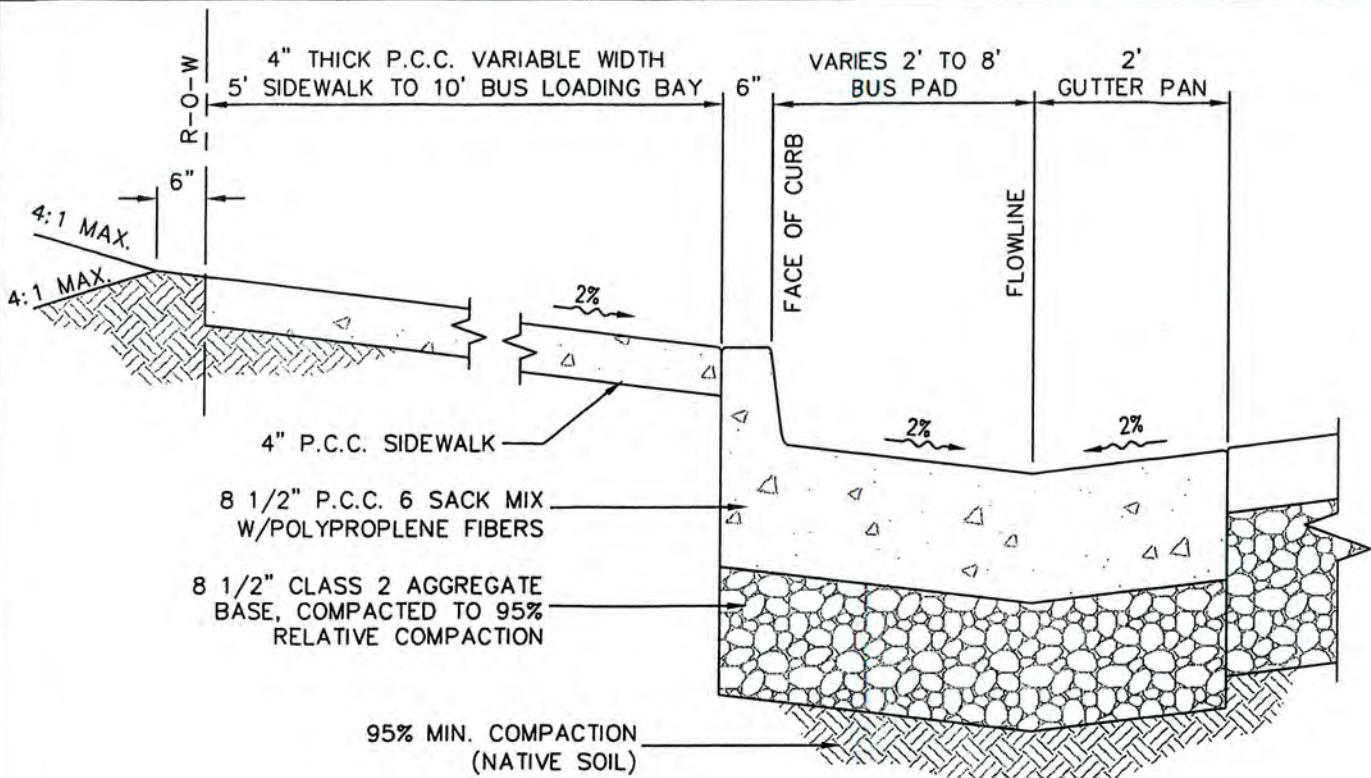
STD.DWG.

1-22-07

90' BUS BAY WITH BENCH

ST-20A

SHT. 1 OF 2

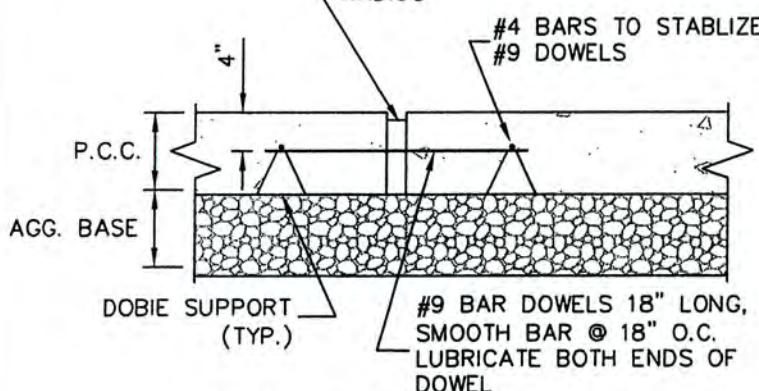


SEE SHEET 1 OR 2 OF 4

SECTION A-A

N.T.S.

INSTALL 3/4" WIDE FIBER FABRIC TO 1/2" BELOW FINISHED SURFACE. FILL REMAINDER WITH APPROVED SEALING COMPOUND ROUND CORNERS TO 1/4" RADIUS

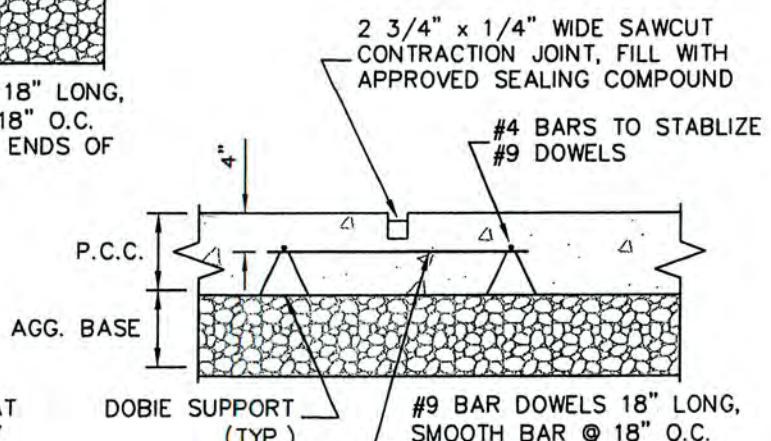


EXPANSION JOINT DETAIL

N.T.S.

NOTES:

1. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
2. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.



CONTRACTION JOINT DETAIL

N.T.S.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			ST-20A
			SHT. 2 OF 2
	BUS BAY CONCRETE DETAILS		

NOTES:

1. SEE SHEET 2 OF 3 FOR SECTION A-A, EXPANSION JOINT DETAIL AND CONTRACTION JOINT DETAIL.
2. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
3. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.
4. SEE SHEET 3 OF 3 FOR BUS SHELTER DETAILS.

The diagram shows a rectangular concrete foundation with a total width of 5'-6" and a total height of 12'. A dashed line inside the foundation indicates the placement of a bench. The distance from the left edge of the foundation to the left edge of the bench is labeled as 6" (twice). The distance from the right edge of the foundation to the right edge of the bench is labeled as 48" (twice). The distance from the top edge of the foundation to the top edge of the bench is labeled as 30" (twice). A callout box labeled "BENCH SIZE, TYPE & PLACEMENT PER CITY REQUIREMENTS" is positioned above the bench area. The text "LIMITS OF CONCRETE" is written vertically along the left edge of the foundation.

BUS SHELTER & BENCH
N.T.S.

NTS
N

The diagram illustrates a bus shelter landscape plan with the following dimensions and features:

- FRONT BOARDING AREA:** 1' wide by 12' deep.
- BUS STOP SIGN:** Located in the front boarding area.
- 6":** The height of the bus stop sign.
- 4' MIN.:** The minimum distance from the curb to the front of the bus stop sign.
- 8' MIN.:** The minimum distance from the curb to the front of the bus shelter.
- SIDEWALK:** 10' wide.
- REAR BOARDING AREA:** 8' wide.
- CONCRETE BUS BAY PAVING:** 16' wide.
- LIP OF GUTTER:** 5' high.
- GUTTER FLOWLINE:** 90' long.
- FACE OF CURB:** The vertical distance from the curb to the top of the concrete paving.
- R = 48':** The radius of the outer curve of the bus shelter.
- R = 52':** The radius of the inner curve of the bus shelter.
- SECTION A-A:** A vertical cross-section line on the right side of the diagram.

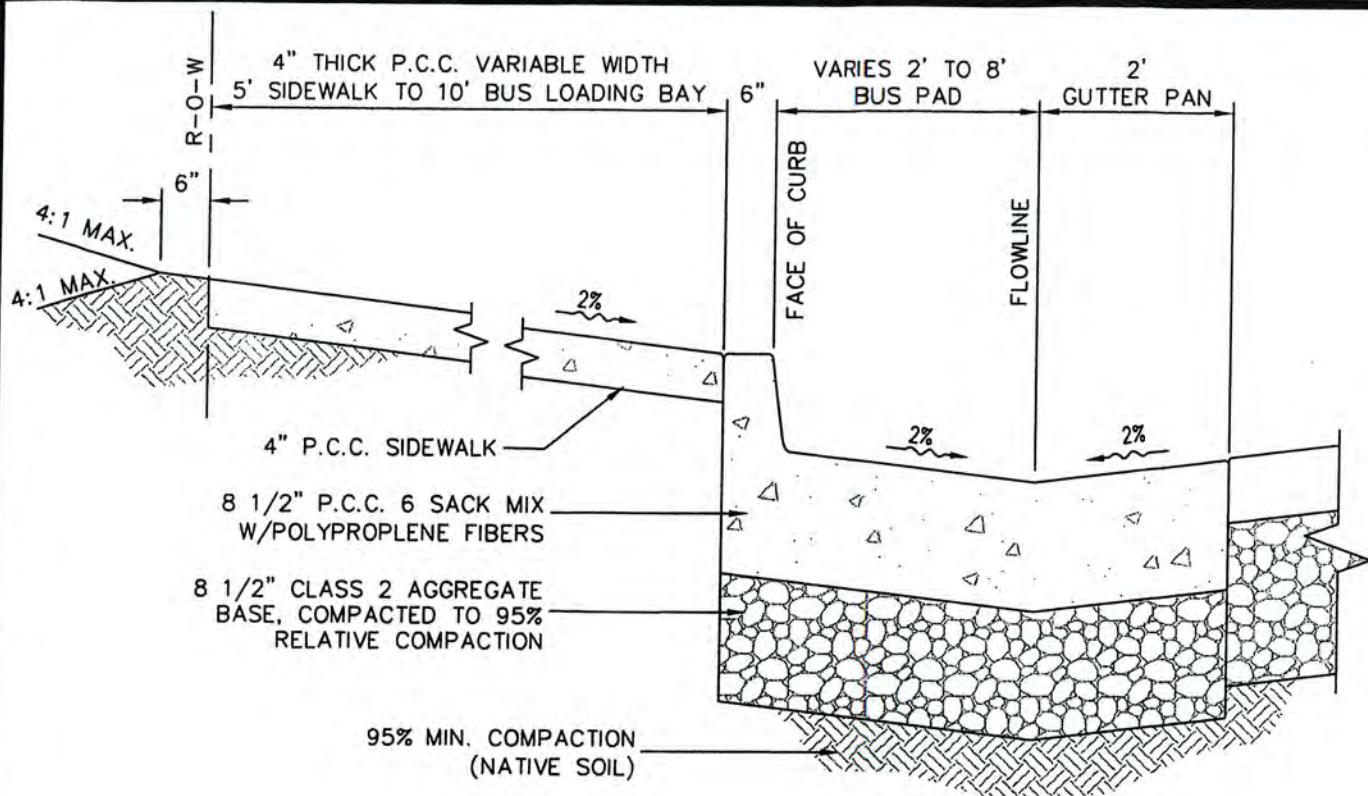
ADDITIONAL RIGHT-OF-WAY SHALL BE TAKEN AS REQUIRED FOR INSTALLATION OF BUS BAY & SHELTER

BUS SHELTER LACOR STREETSCAPE, HERITAGE MODEL HE12BS OR APPROVED EQUAL, SEE SHEET 3 OF 3

BUS BAY PLAN VIEW
N.T.S.

T.S.
N.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			
		90' BUS BAY WITH SHELTER & BENCH	ST-20B
			SHT. 1 OF 3

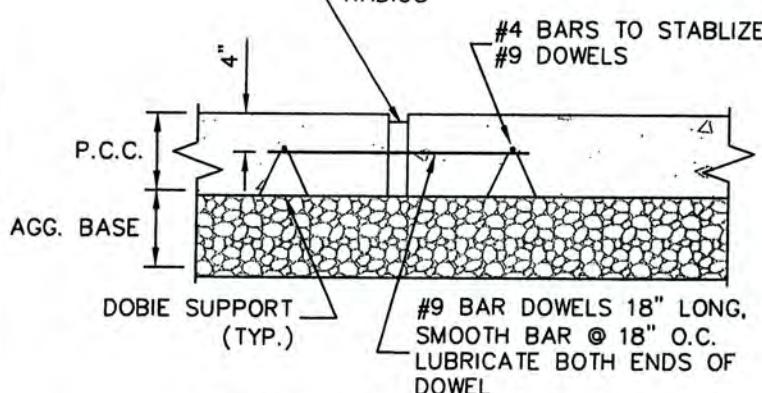


SEE SHEET 1 OR 2 OF 4

SECTION A-A

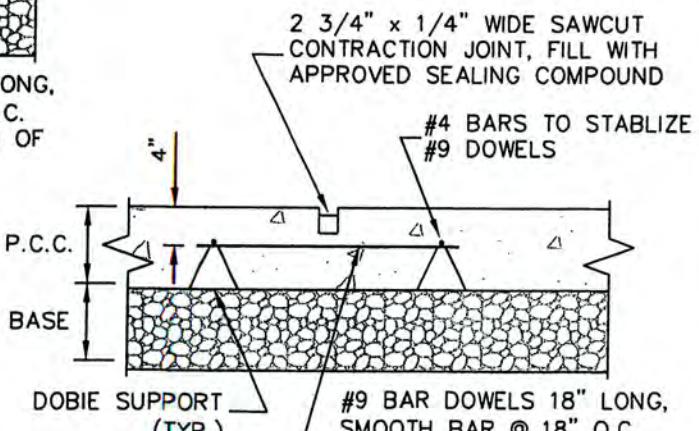
N.T.S.

INSTALL 3/4" WIDE FIBER FABRIC TO 1/2" BELOW FINISHED SURFACE. FILL REMAINDER WITH APPROVED SEALING COMPOUND ROUND CORNERS TO 1/4" RADIUS



EXPANSION JOINT DETAIL

N.T.S.



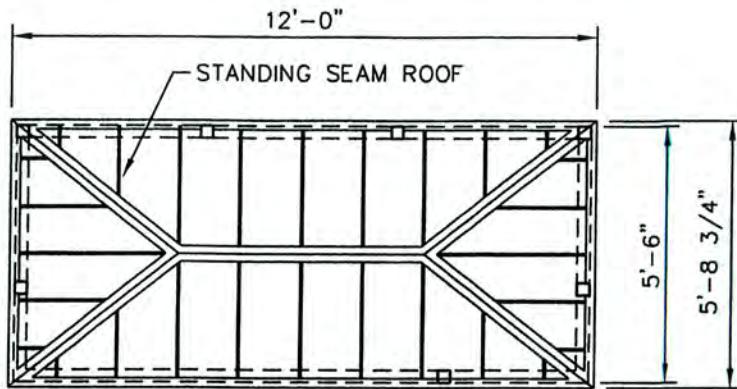
CONTRACTION JOINT DETAIL

N.T.S.

NOTES:

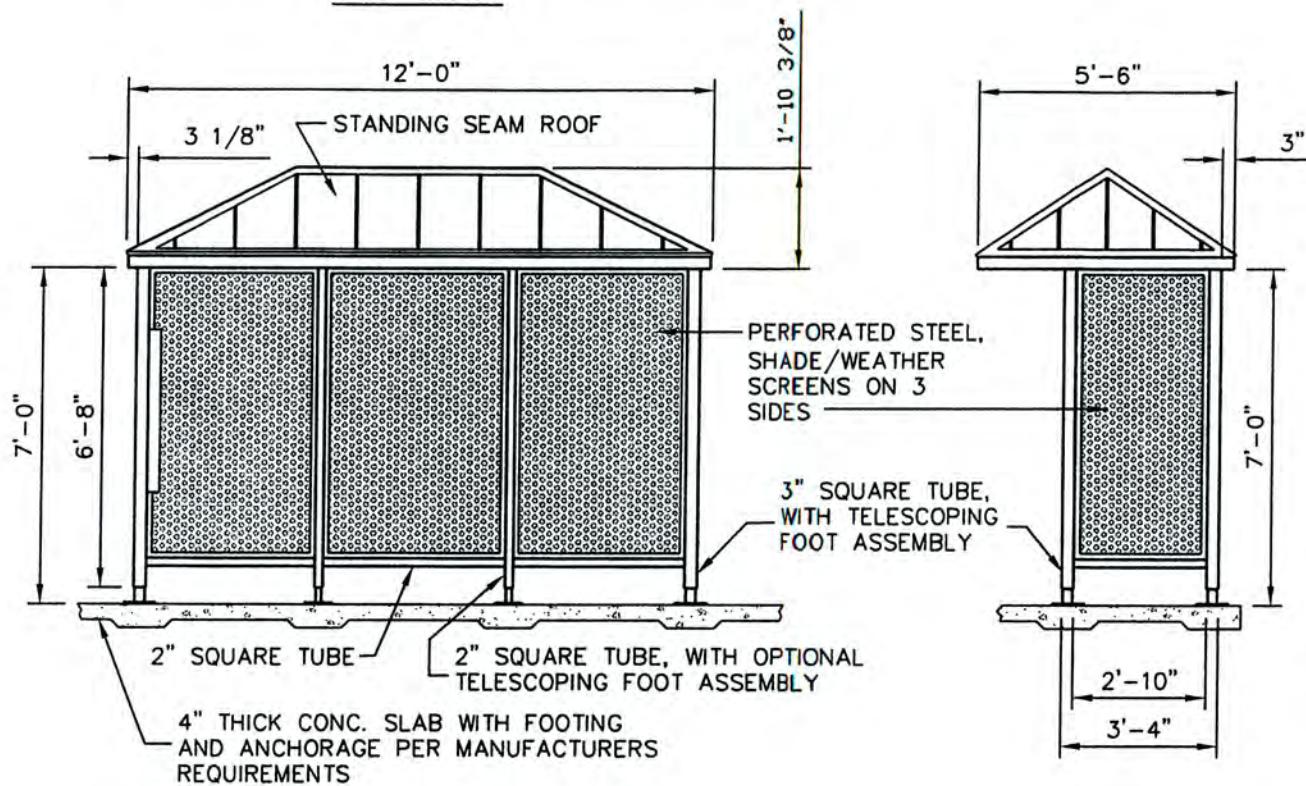
1. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
2. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			ST-20B
	BUS BAY CONCRETE DETAILS		SHT. 2 OF 3



LACOR STREETSCAPE
8837 N. CENTRAL AVE.
PHOENIX, ARIZONA 85020
PHONE 602-371-3110

TOP VIEW



FRONT ELEVATION

SPECIFICATIONS

12' Transit Passenger shelter constructed of square steel pipe with hipped roof. Features 16 gauge, 42% perforated steel screens on three sides allowing for air circulation. Unit shall be Lacor Streetscape "Heritage Model HE12BS or approved equal.

Coating: oven-baked powder coating, color as selected by City of Chowchilla.
Size: 12' long x 5'-6" deep x 8'-10 3/8" tall (7' to lowest point of roof).

Frame: 3" square steel tubing.

Shade/Weather Screens: 16 gauge, 42% perforated steel.

Anchoring: 1/2" anchor bolts through welded footing plate.

Roof: Standing-seam steel roofing.

Lighting: Ceiling-mounted incandescent fixture or solar lighting system.

Map Holder: (INFO30X34) Bulletin Board.

Telescopic Foot Plates for custom installation.

SIDE ELEVATION

REVISION DATE

CITY OF CHOWCHILLA

STD.DWG.

1-22-07

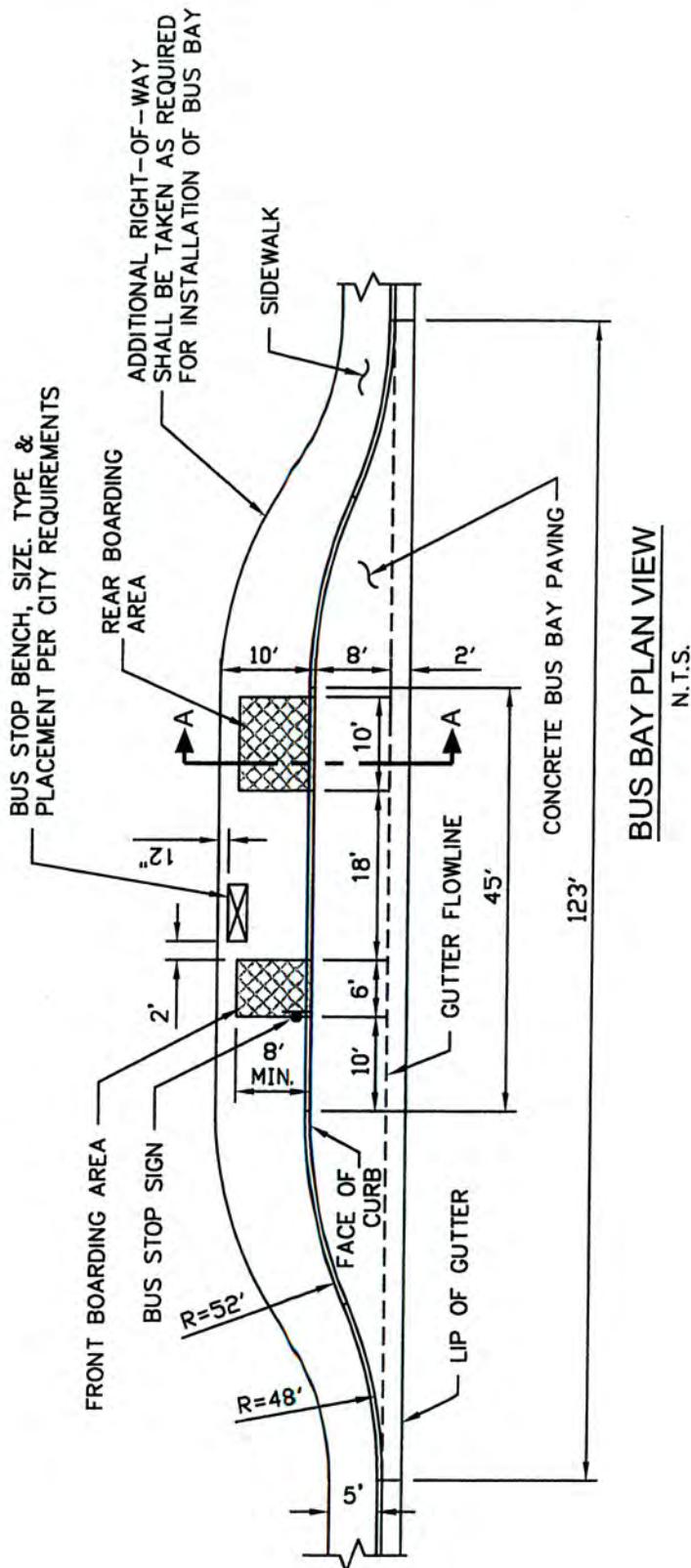
BUS BAY SHELTER

ST-20B

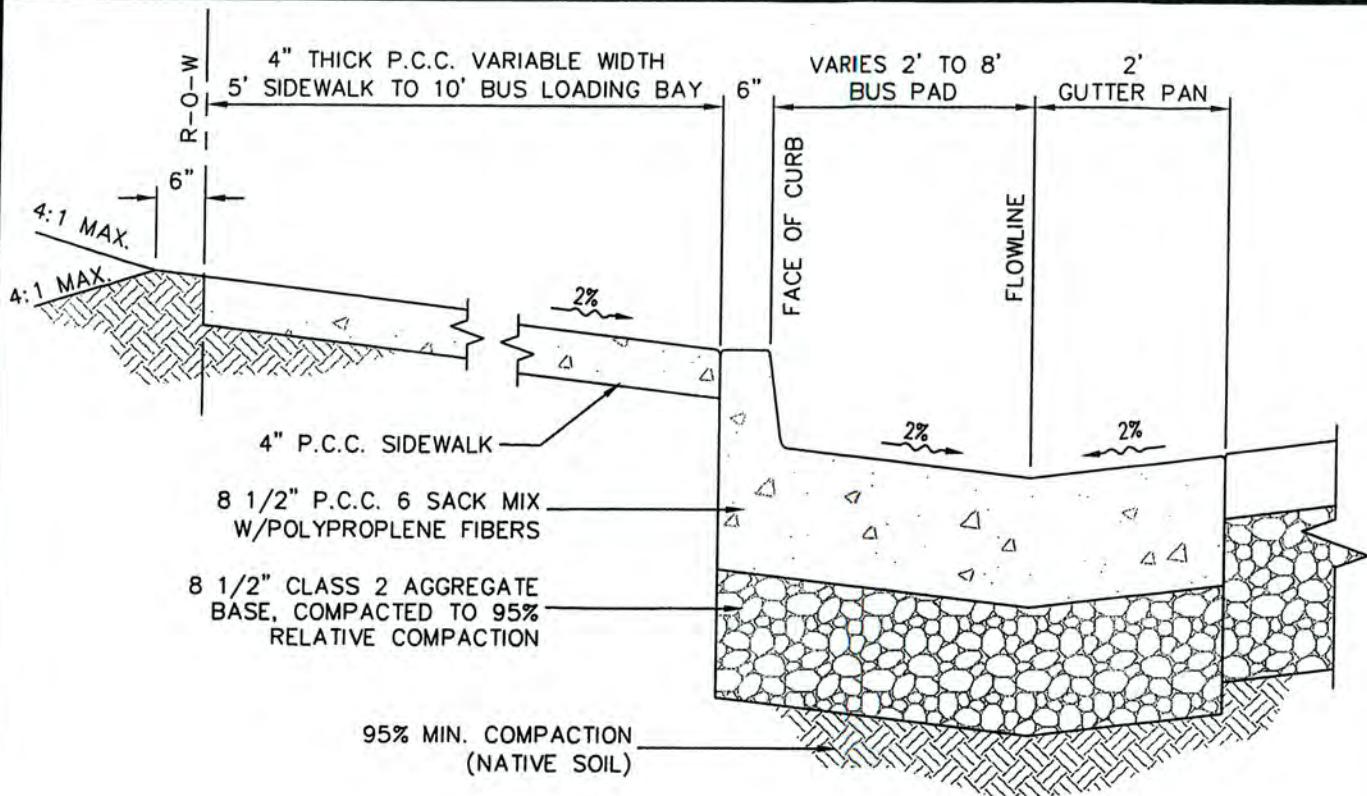
SHT. 3 OF 3

NOTES:

1. SEE SHEET 2 OF 2 FOR SECTION A-A, EXPANSION JOINT DETAIL AND CONTRACTION JOINT DETAIL.
2. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
3. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.



REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			ST-20C
			SHT. 1 OF 2

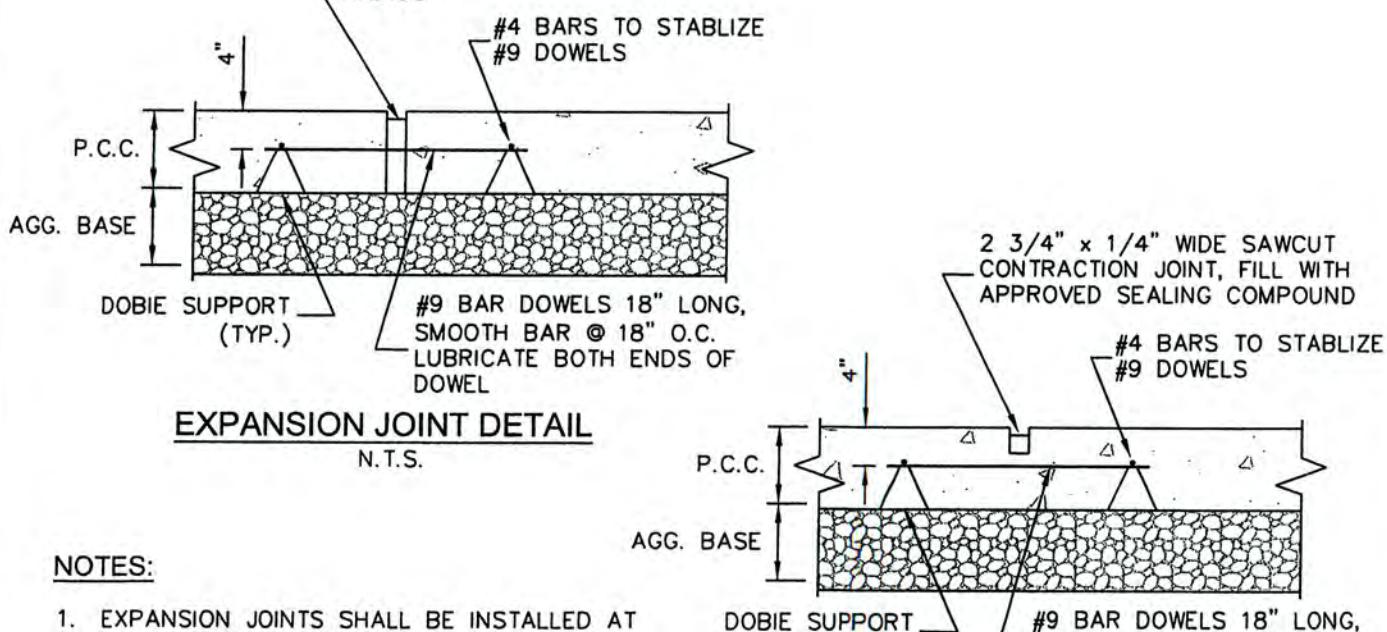


SEE SHEET 1 OR 2 OF 4

SECTION A-A

N.T.S.

INSTALL 3/4" WIDE FIBER FABRIC TO 1/2" BELOW FINISHED SURFACE. FILL REMAINDER WITH APPROVED SEALING COMPOUND ROUND CORNERS TO 1/4" RADIUS



EXPANSION JOINT DETAIL

N.T.S.

NOTES:

1. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
2. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.

DOBIE SUPPORT (TYP.) #9 BAR DOWELS 18" LONG, SMOOTH BAR @ 18" O.C. LUBRICATE BOTH ENDS OF DOWEL

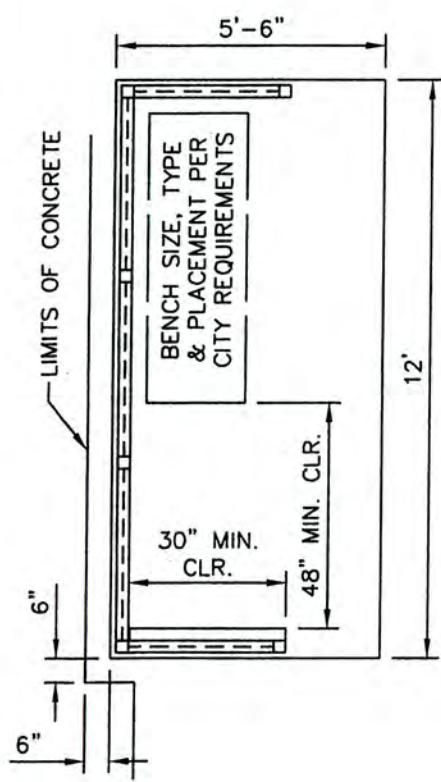
CONTRACTION JOINT DETAIL

N.T.S.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			ST-20C
BUS BAY CONCRETE DETAILS			
SHT. 2 OF 2			

NOTES: |

1. SEE SHEET 2 OF 3 FOR SECTION A-A, EXPANSION JOINT DETAIL AND CONTRACTION JOINT DETAIL.
2. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
3. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.
4. SEE SHEET 3 OF 3 FOR BUS SHELTER DETAIL.



BUS SHELTER & BENCH

15

CITY OF CHOWCHILLA

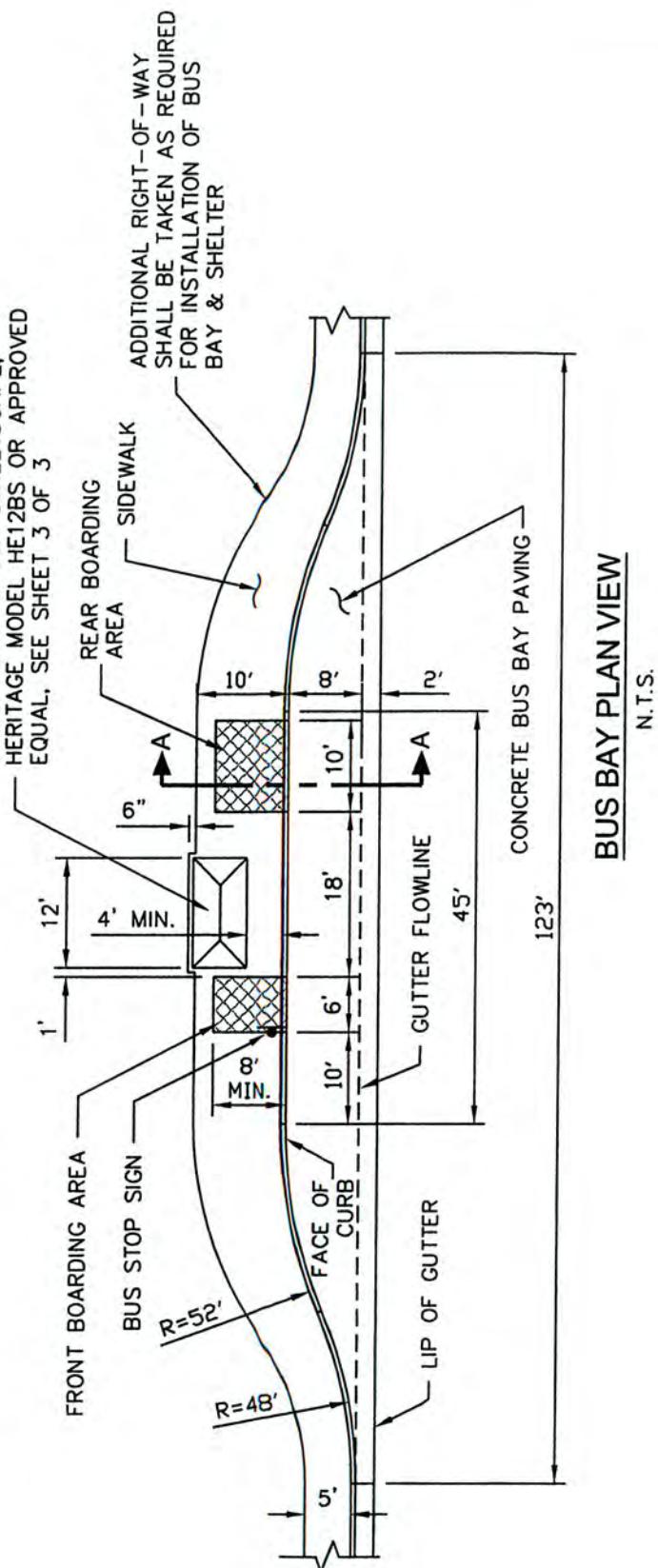
STD.DWG.

1-22-07

45' BUS BAY WITH SHELTER & BENCH

ST 30D

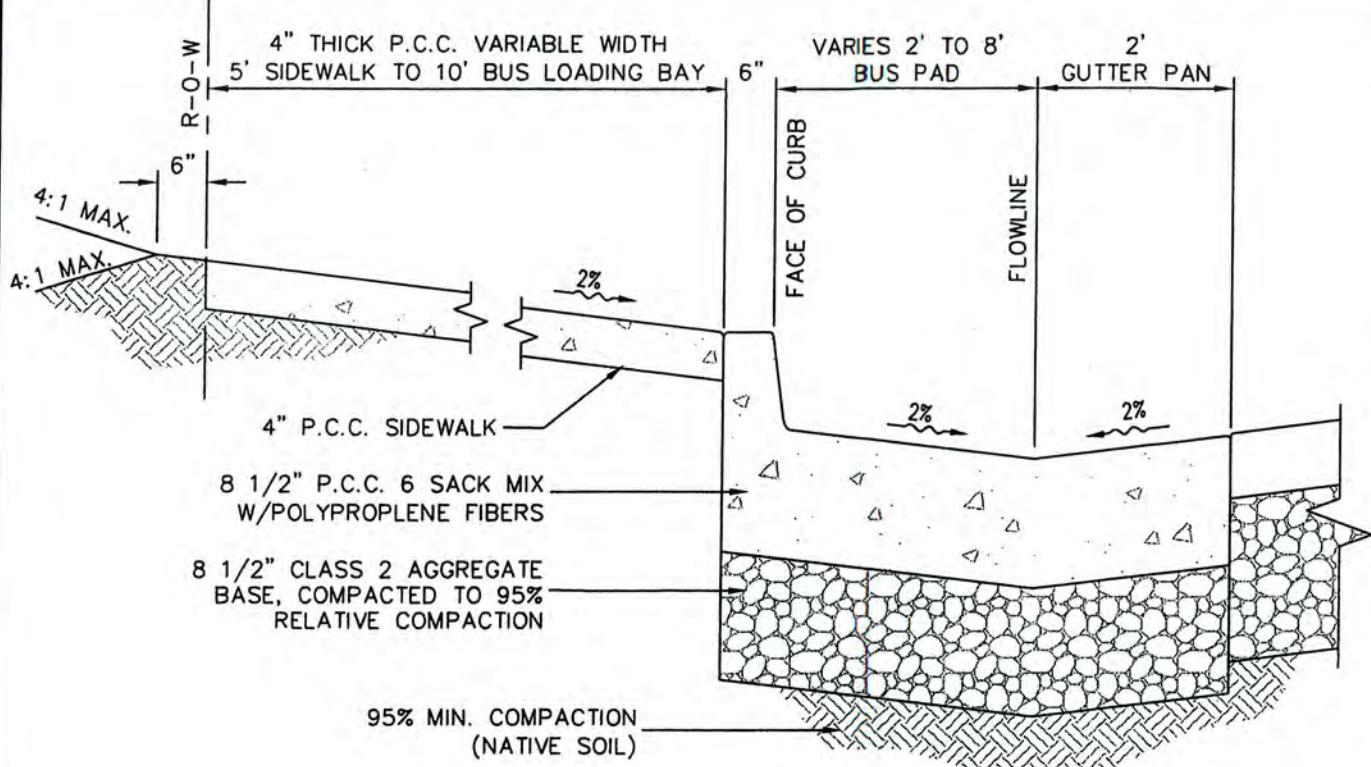
SHT. 1 OF 3



BUS BAY PLAN VIEW

N.T.S.

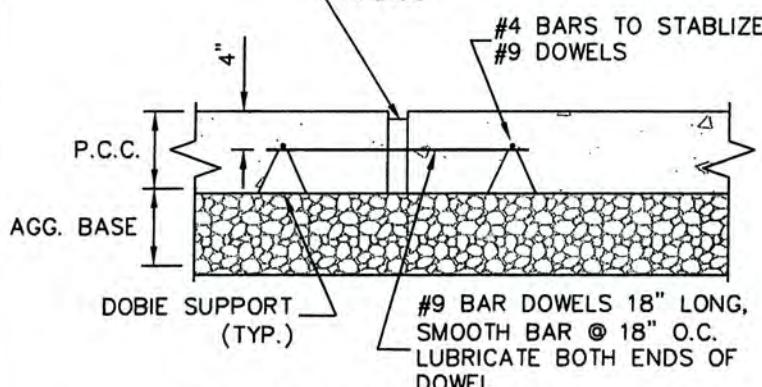
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SEE SHEET 1 OR 2 OF 4
SECTION A-A

N.T.S.

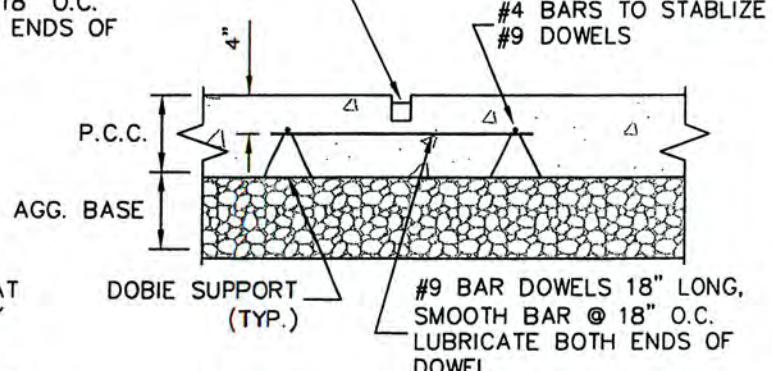
INSTALL 3/4" WIDE FIBER FABRIC TO 1/2" BELOW FINISHED SURFACE. FILL REMAINDER WITH APPROVED SEALING COMPOUND ROUND CORNERS TO 1/4" RADIUS



EXPANSION JOINT DETAIL

N.T.S.

2 3/4" x 1/4" WIDE SAWCUT CONTRACTION JOINT, FILL WITH APPROVED SEALING COMPOUND



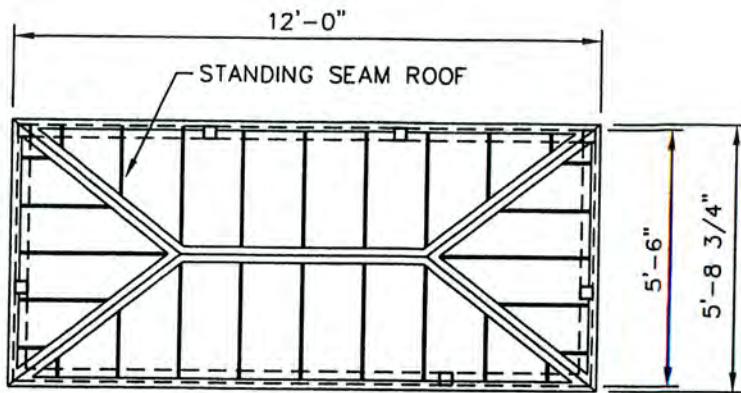
CONTRACTION JOINT DETAIL

N.T.S.

NOTES:

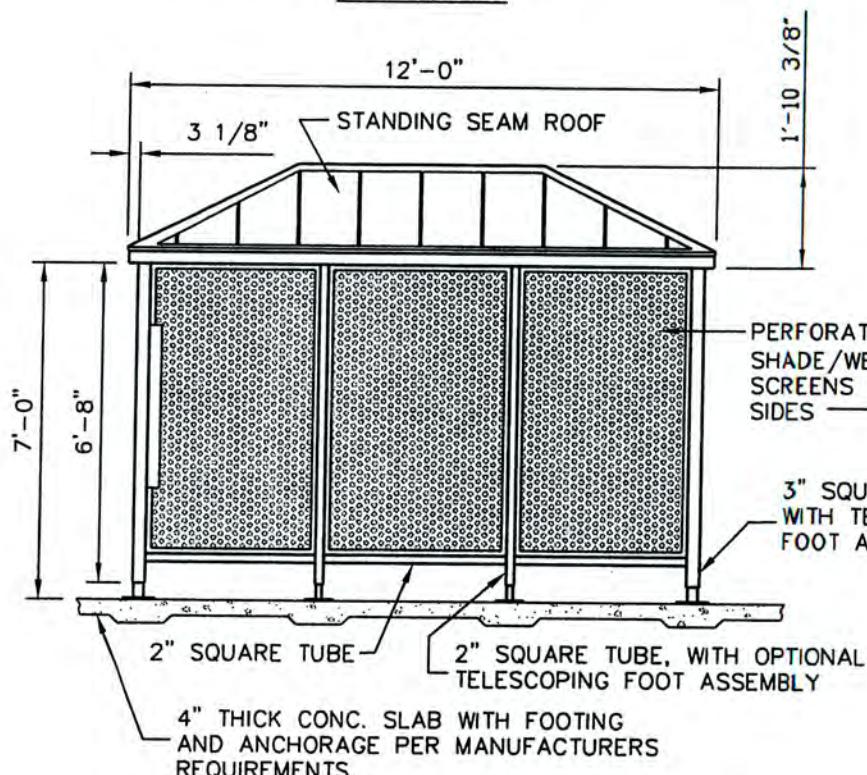
1. EXPANSION JOINTS SHALL BE INSTALLED AT THE MID POINT OF THE OVERALL BUS BAY LENGTH AND AT 50' O.C. MAXIMUM.
2. CONTRACTION JOINTS SHALL BE PLACED AT 50' O.C. MIDWAY BETWEEN EXPANSION JOINTS.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			ST-20D
BUS BAY CONCRETE DETAILS			
			SHT. 2 OF 3



LACOR STREETSCAPE
8837 N. CENTRAL AVE.
PHOENIX, ARIZONA 85020
PHONE 602-371-3110

TOP VIEW



SPECIFICATIONS

FRONT ELEVATION

12' Transit Passenger shelter constructed of square steel pipe with hipped roof. Features 16 gauge, 42% perforated steel screens on three sides allowing for air circulation. Unit shall be Lacor Streetscape "Heritage Model HE12BS or approved equal.

Coating: oven-baked powder coating, color as selected by City of Chowchilla.
Size: 12' long x 5'-6" deep x 8'-10 3/8" tall (7' to lowest point of roof).

Frame: 3" square steel tubing.

Shade/Weather Screens: 16 gauge, 42% perforated steel.

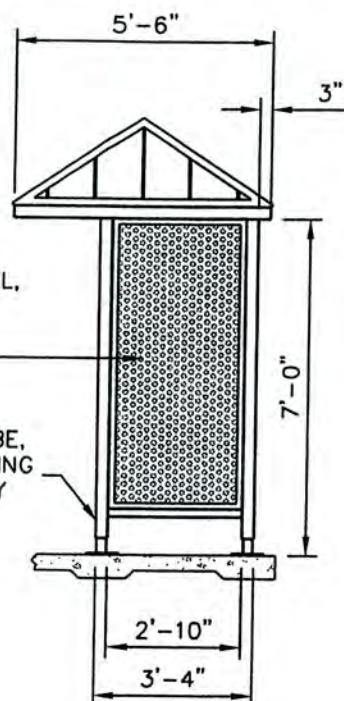
Anchoring: 1/2" anchor bolts through welded footing plate.

Roof: Standing-seam steel roofing.

Lighting: Ceiling-mounted incandescent fixture or solar lighting system.

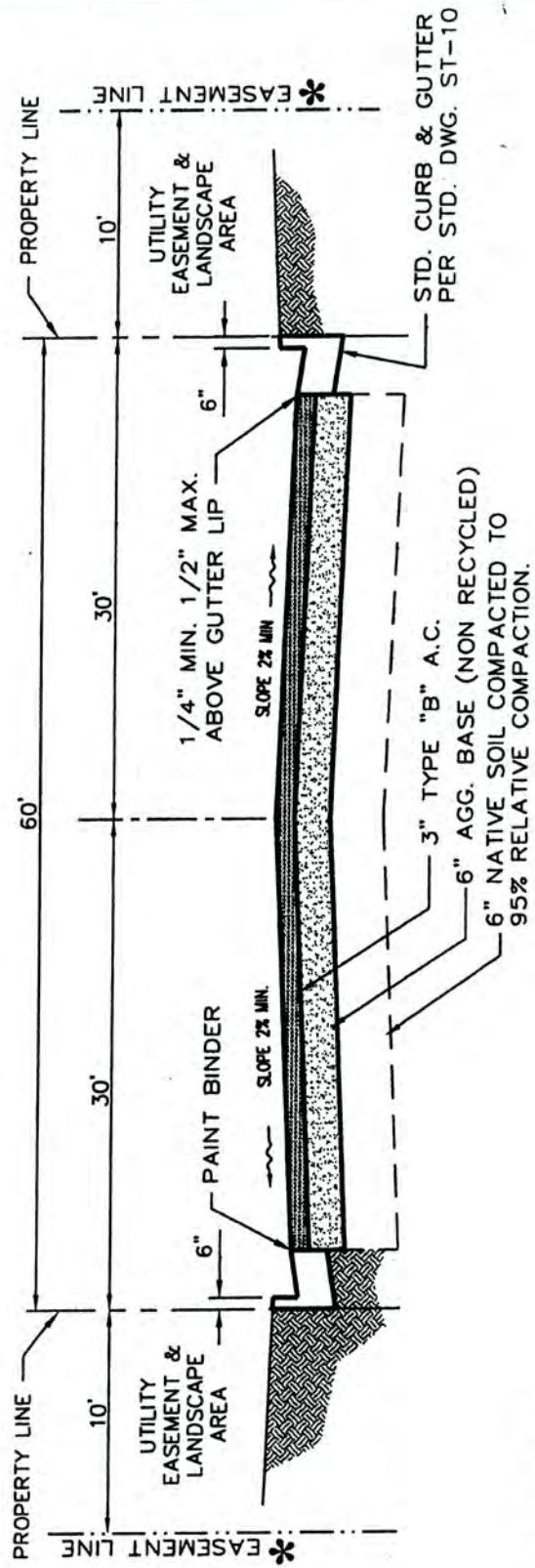
Map Holder: (INFO30X34) Bulletin Board.

Telescopic Foot Plates for custom installation.



SIDE ELEVATION

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
1-22-07			ST-20D
			SHT. 3 OF 3



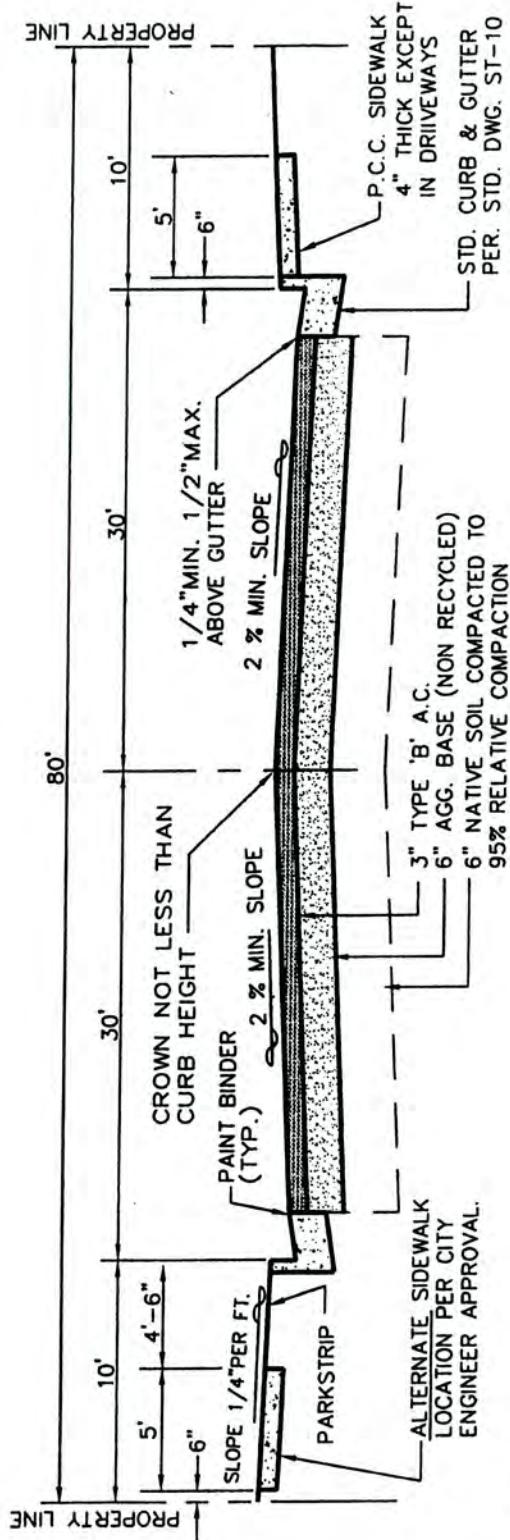
NOTES:

1. ASPHALT CONCRETE, AND EARTHWORK SHALL CONFORM TO SECTIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1, AND ST-2.
3. TRAFFIC INDEX = 6
4. MINIMUM GUTTER SLOPE = 0.112%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 40 MPH.
9. MINIMUM RADIUS = 550'.
10. STOPPING SIGHT DISTANCE = 300'

11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF THE CITY ENGINEER.
12. UTILITIES SHALL BE LOCATED WITHIN THE DESIGNATED UTILITY EASEMENT AND LANDSCAPE AREA.
13. CONCRETE SHALL HAVE 6 SACKS OF CEMENT PER CUBIC YARD.
14. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
15. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

* THE CITY MAY REQUIRE A LANDSCAPE EASEMENT UP TO FIVE FEET (5') IN WIDTH BEYOND THE 10' UTILITY EASEMENT AND LANDSCAPE AREA.

REVISION DATE	CITY OF CHOWCHILLA MINOR INDUSTRIAL COLLECTOR STREET		Std. Dwg.
11-13-07			ST-21



NOTES:

1. ASPHALTIC CONCRETE, AND EARTHWORK SHALL CONFORM TO SPECIFICATIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1 AND ST-2.
3. TRAFFIC INDEX = 6
4. MINIMUM GUTTER GRADE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 40 MPH
9. MINIMUM RADIUS = 550'
10. STOPPING SIGHT DISTANCE = 300'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF CITY ENGINEER.
12. BY APPROVAL OF THE CITY ENGINEER, THE SIDEWALK MAY BE CONSTRUCTED APART FROM THE CURB (AS SHOWN IN THE "ALTERNATE SIDEWALK CONFIGURATION") WHERE IT IS IMPOSSIBLE TO RELOCATE HYDRANTS OR OTHER OBSTRUCTIONS EXISTENT IN THE PARK STRIP AREA. PREFERABLY, SIDEWALKS SHOULD BE CONSTRUCTED CONTIGUOUS WITH THE CURB AND ALL HYDRANTS, LIGHT POLES, ETC. LOCATED BEHIND THE SIDEWALK. (MAIL BOXES TO BE ERECTED IN GROUPS AT ONE OFF-STREET LOCATION SUBJECT TO POST OFFICE REGULATIONS). CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
13. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
14. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

REVISION DATE

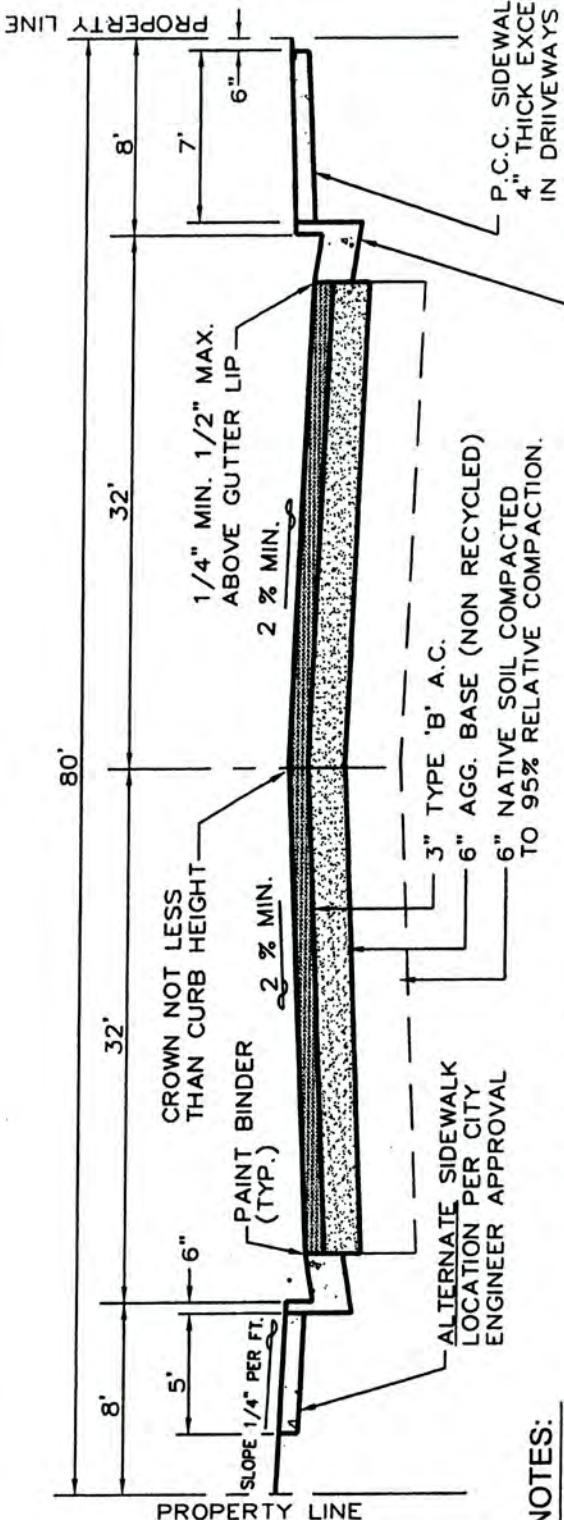
11-13-07

CITY OF CHOWCHILLA

MAJOR INDUSTRIAL
COLLECTOR STREET

Std. Dwg.

ST-22

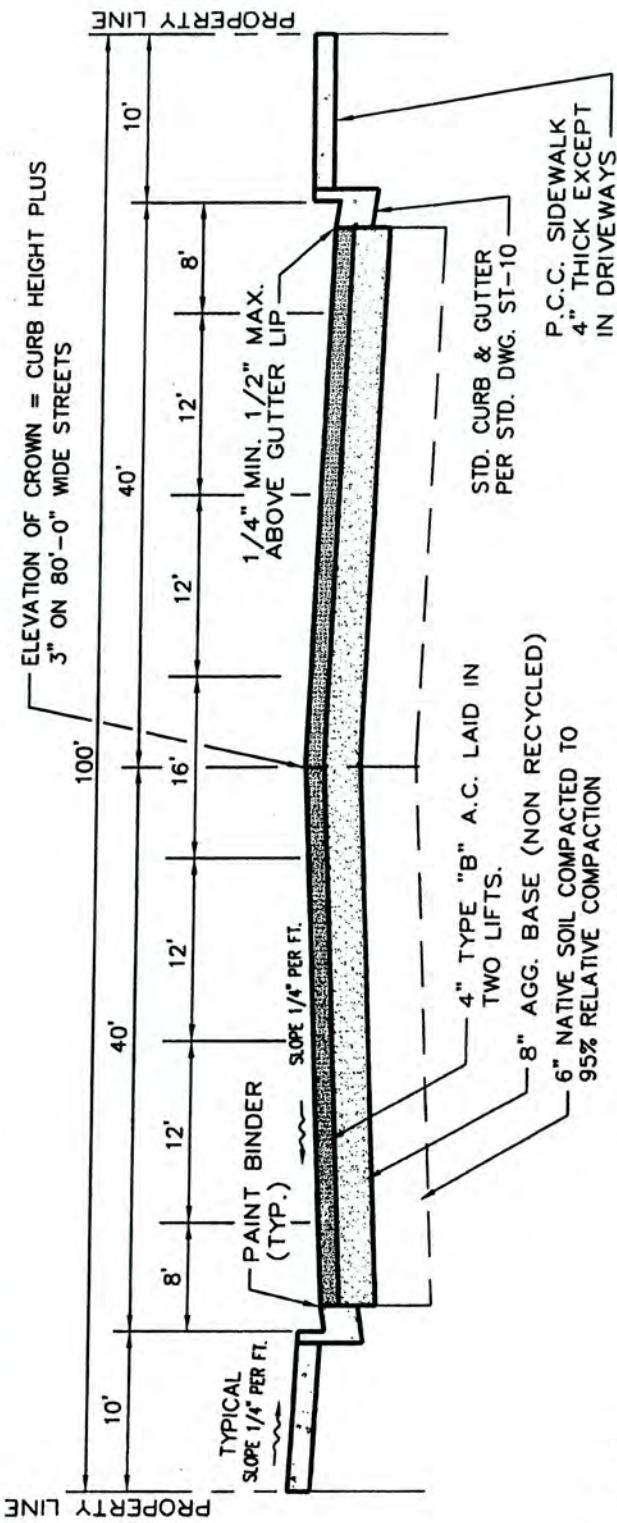


NOTES:

1. ASPHALTIC CONCRETE, AND EARTHWORK SHALL CONFORM TO SPECIFICATIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1 AND ST-2.
3. TRAFFIC INDEX = 6
4. MINIMUM GUTTER GRADE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 40 MPH
9. MINIMUM RADIUS = 550'
10. STOPPING DISTANCE = 300'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF THE CITY MANAGER

12. BY APPROVAL OF THE CITY ENGINEER, THE SIDEWALK MAY BE CONSTRUCTED APART FROM THE CURB (AS SHOWN IN THE "ALTERNATE SIDEWALK CONFIGURATION") WHERE IT IS IMPOSSIBLE TO RELOCATE HYDRANTS OR OTHER OBSTRUCTIONS EXISTENT IN THE PARK STRIP AREA. PREFERABLY, SIDEWALKS SHOULD BE CONSTRUCTED CONTIGUOUS WITH THE CURB AND ALL HYDRANTS, LIGHT POLES, ETC. LOCATED BEHIND THE SIDEWALK. (MAIL BOXES TO BE ERECTED IN GROUPS AT ONE OFF-STREET LOCATION SUBJECT TO POST OFFICE REGULATIONS). CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
13. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
14. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

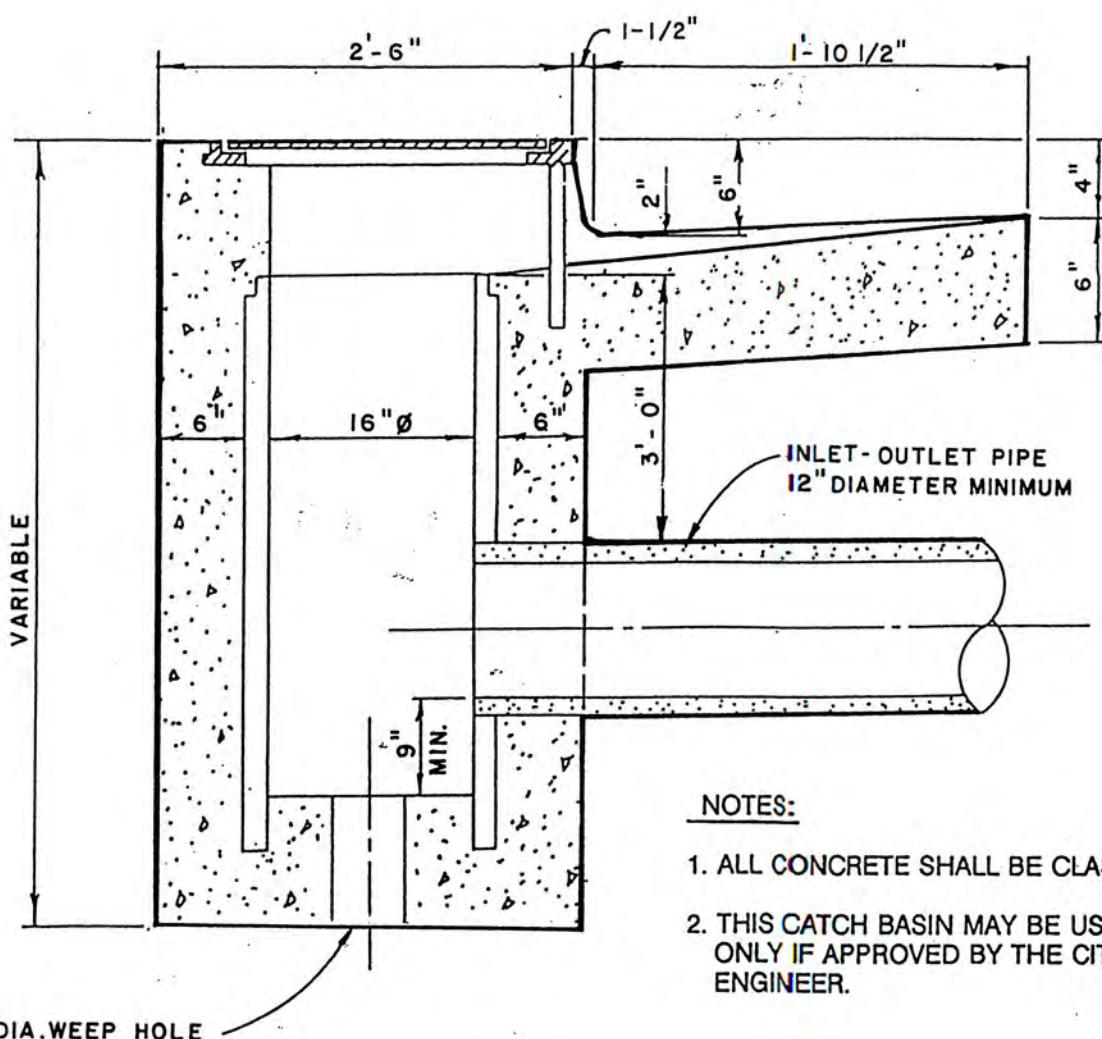
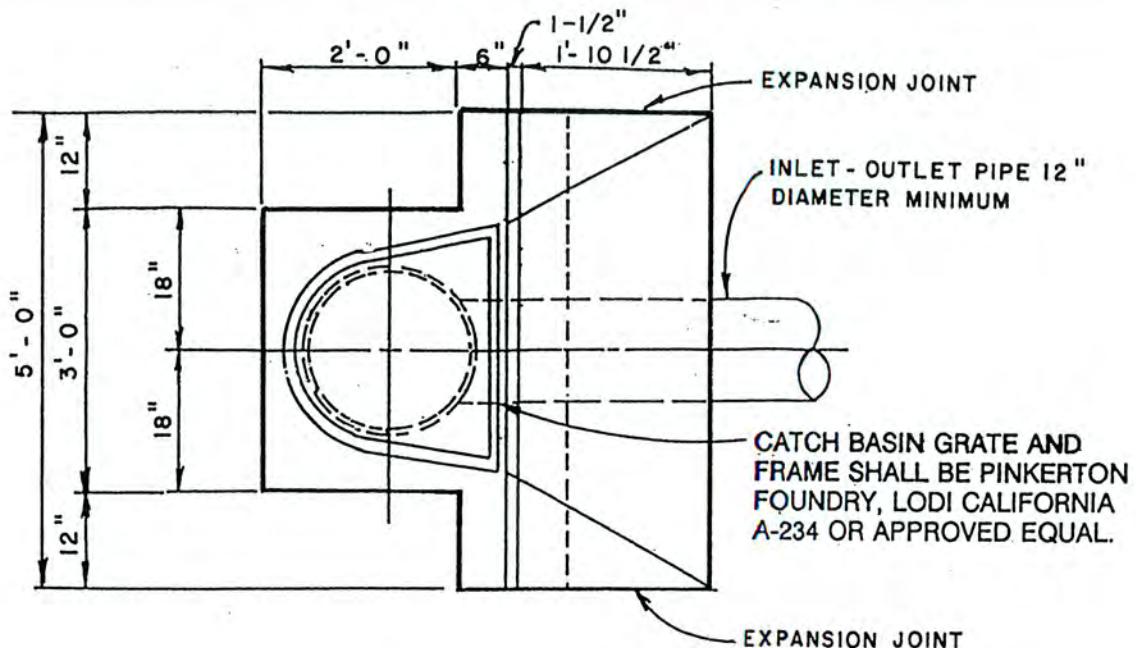
REVISION DATE	CITY OF CHOWCHILLA MAJOR INDUSTRIAL ARTERIAL STREET	STD.DWG.
11-13-07		
		ST-23



NOTES:

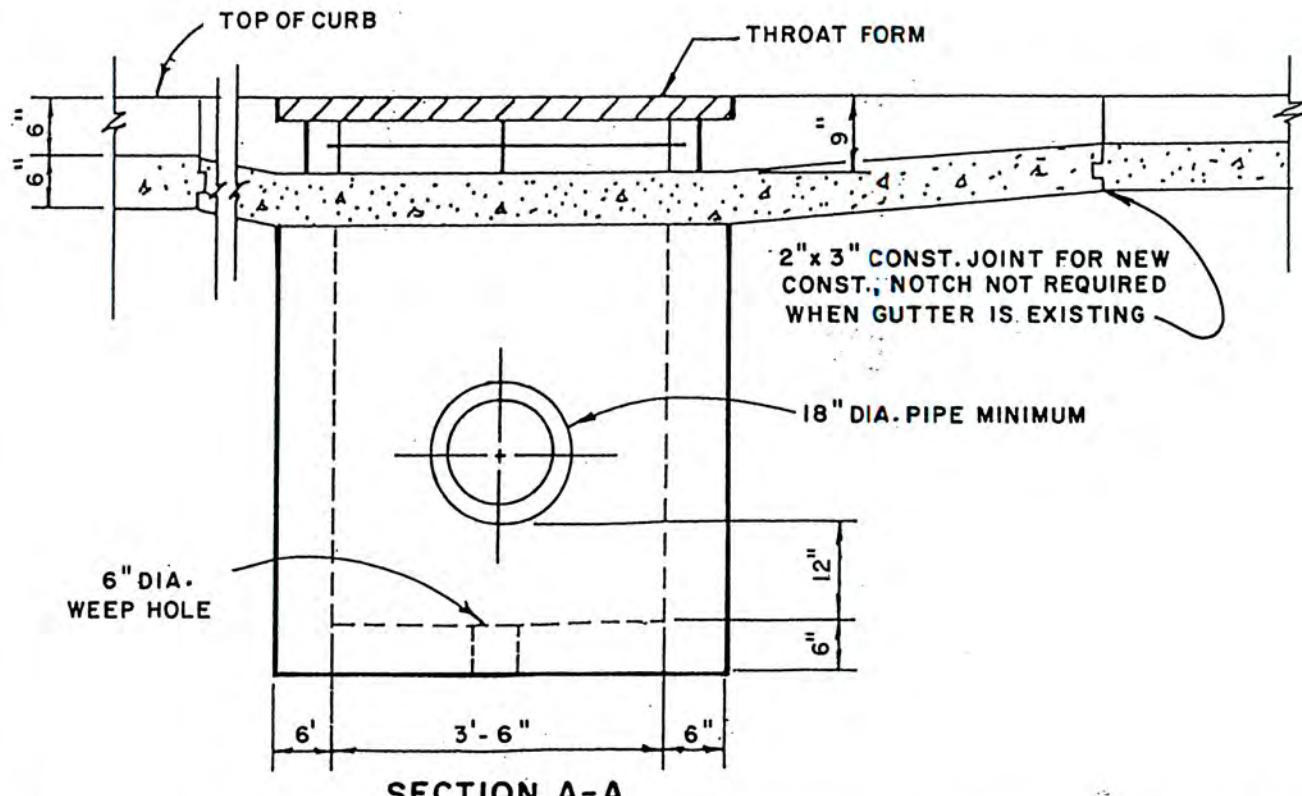
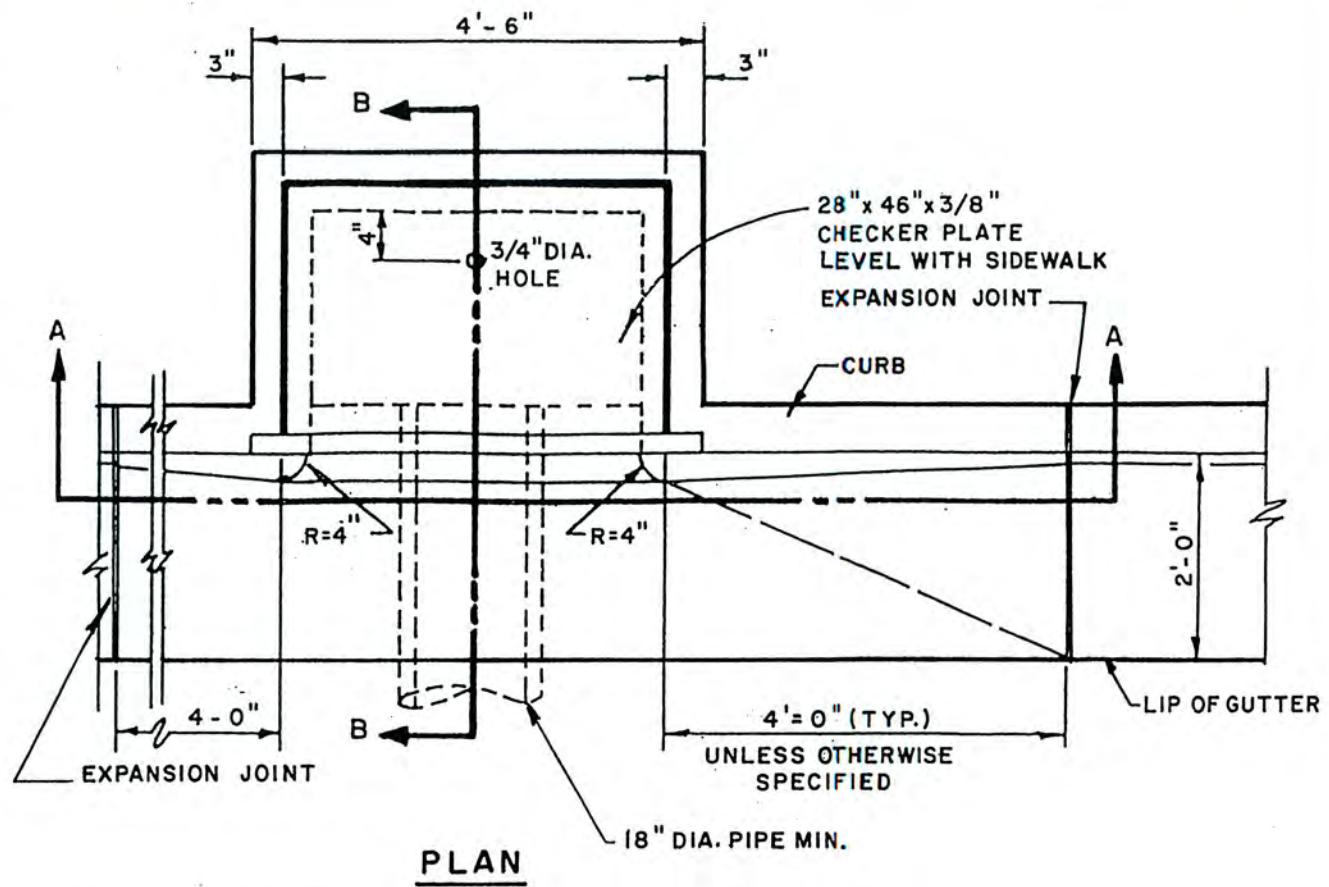
1. ASPHALT CONCRETE, AND EARTHWORK SHALL CONFORM TO SECTIONS 39, AND 19 OF THE STATE STANDARD SPECIFICATIONS LATEST EDITION.
2. THE STRUCTURAL SECTION AS SHOWN SHALL HAVE A MINIMUM SUBSOIL R-VALUE OF 50. FOR R-VALUES LESS THAN 50, THE STRUCTURAL SECTION SHALL BE DESIGNED IN ACCORDANCE TO STANDARDS ST-1, AND ST-2.
3. TRAFFIC INDEX = 8
4. MINIMUM GUTTER SLOPE = 0.12%
5. MINIMUM CROSS SLOPE = 2%
6. MAXIMUM CROSS SLOPE = 5%
7. MINIMUM SLOPE ON WIDENING = 1.5%
8. DESIGN SPEED = 50 MPH.
9. MINIMUM RADIUS = 850'
10. STOPPING SIGHT DISTANCE = 400'
11. WIDTH OF STREET PAVED AREA MAY BE REVISED SUBJECT TO PRIOR APPROVAL OF THE CITY ENGINEER.
12. CONCRETE SHALL BE 6 SACK CEMENT PER CUBIC YARD.
13. UTILITIES STREET LIGHTS, FIRE HYDRANTS, METERS, VAULTS SHALL BE LOCATED BEHIND THE CURB & GUTTERS.
14. AGGREGATE BASE SHALL CONFORM TO SECTION 26 OF THE STATE STANDARD SPECIFICATIONS EXCEPT THAT A DISTINCTION IS MADE BETWEEN AGGREGATE BASE COMPOSED OF 100% VIRGIN AGGREGATES AND AGGREGATE BASE CONTAINING ANY QUANTITY OF RECYCLED OR RECLAIMED AGGREGATES. AGGREGATE BASE SHALL BE OF 3/4" MAXIMUM GRADING.
15. RECYCLED BASE ROCK - THE STRUCTURAL AGGREGATE BASE SECTION THICKNESS SHOWN SHALL BE INCREASED BY 50%

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
11-13-07	INDUSTRIAL EXPRESSWAY	
		ST- 24

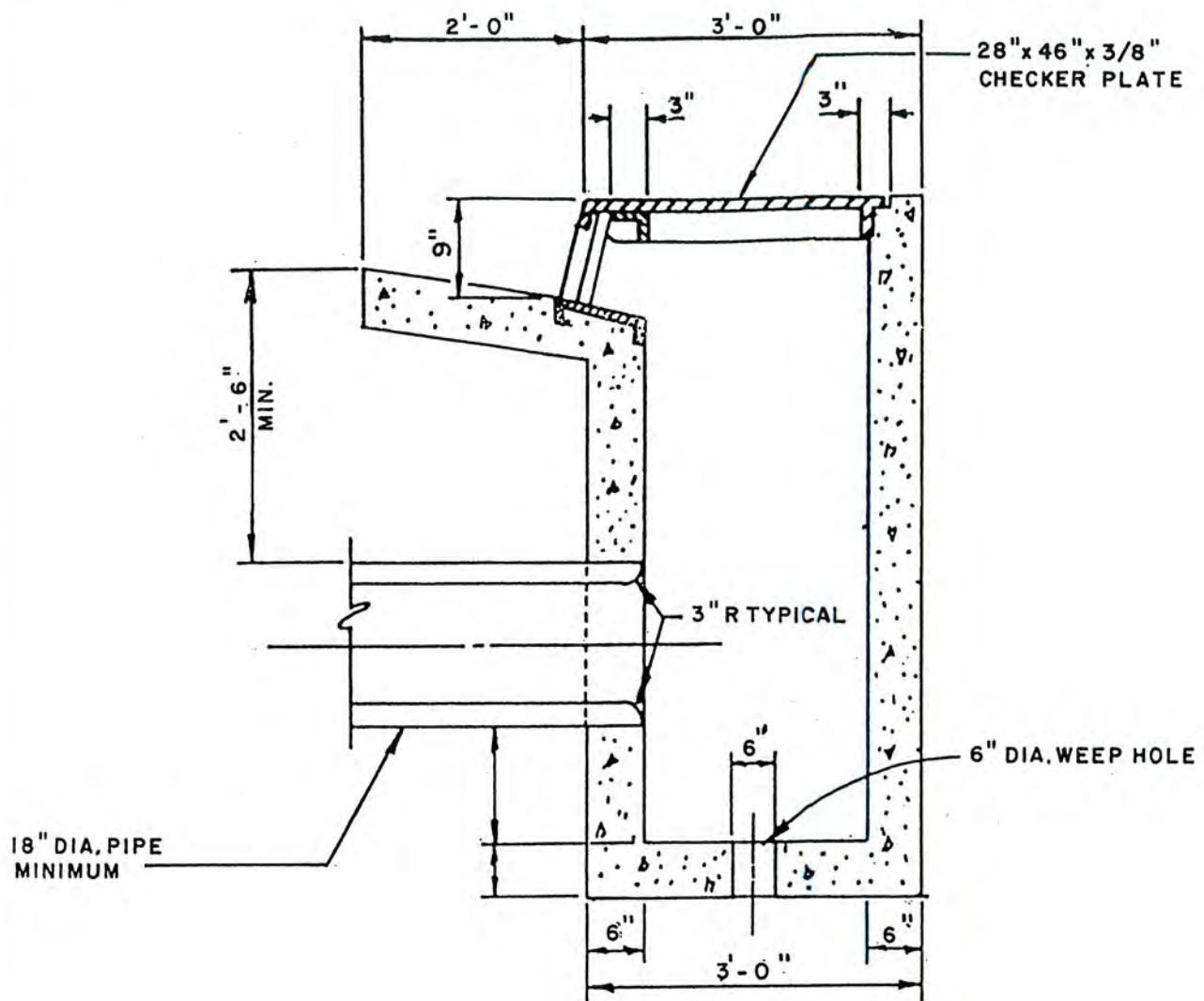


1. ALL CONCRETE SHALL BE CLASS "A".
2. THIS CATCH BASIN MAY BE USED ONLY IF APPROVED BY THE CITY ENGINEER.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CURB DRAIN INLET-OUTLET TYPE A	D-1



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CURB DRAIN INLET-OUTLET TYPE B	D-2
		1 OF 3

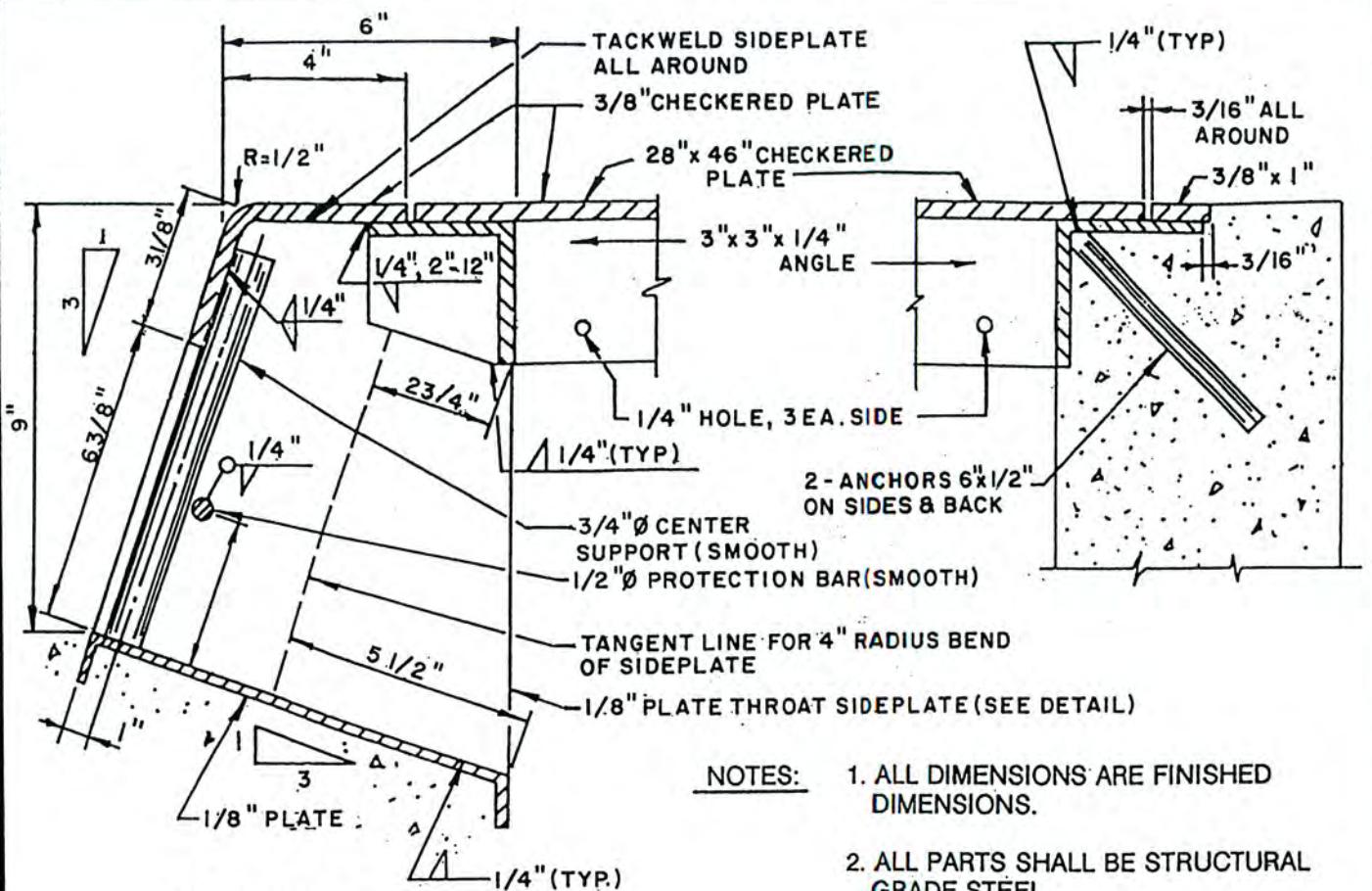


SECTION B - B

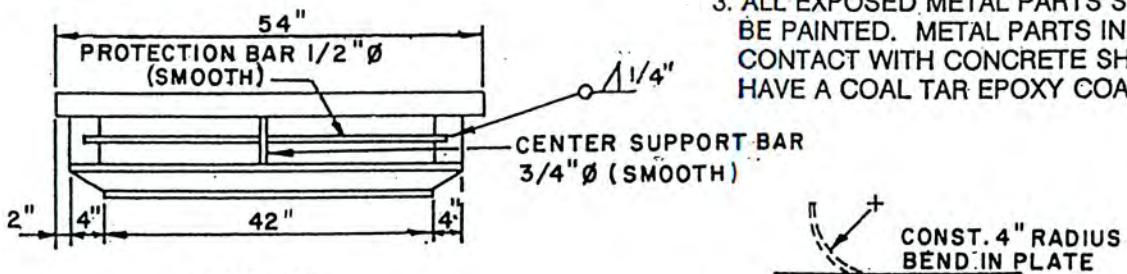
NOTES:

1. THE INLET MAY BE MODIFIED SLIGHTLY TO MATCH EXISTING IMPROVEMENTS, AS DIRECTED BY THE CITY ENGINEER.
2. STRUCTURAL SHALL BE CLASS "A" CONCRETE. EXPOSED SURFACES SHALL BE FINISHED TO MATCH CURB AND SIDEWALK FINISH.
3. WHEN EMPLOYED AS OUTLET, PLACE GUTTER 6" BELOW TOP OF CURB GRADE AND ELIMINATE 1/2" IRON ROD FORM THROAT FORM.
4. CURB & GUTTER SHALL BE CONSTRUCTED OR RECONSTRUCTED ON EACH SIDE OF BOX AS REQUIRED.

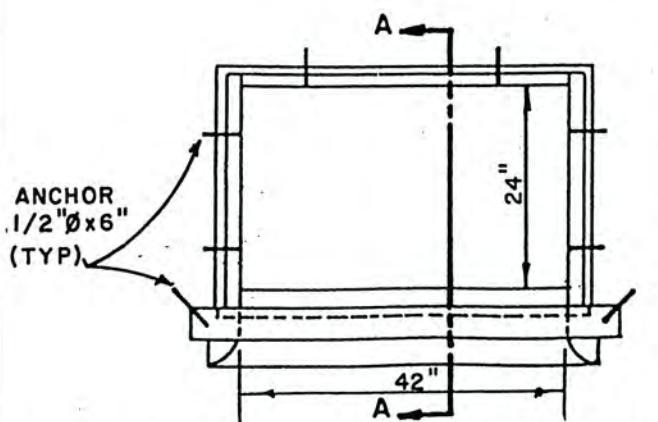
REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
	CURB DRAIN INLET-OUTLET TYPE B		D-2 2 OF 3



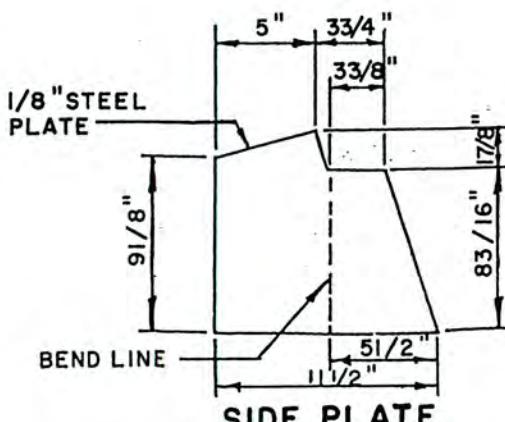
SECTION A-A



FRONT

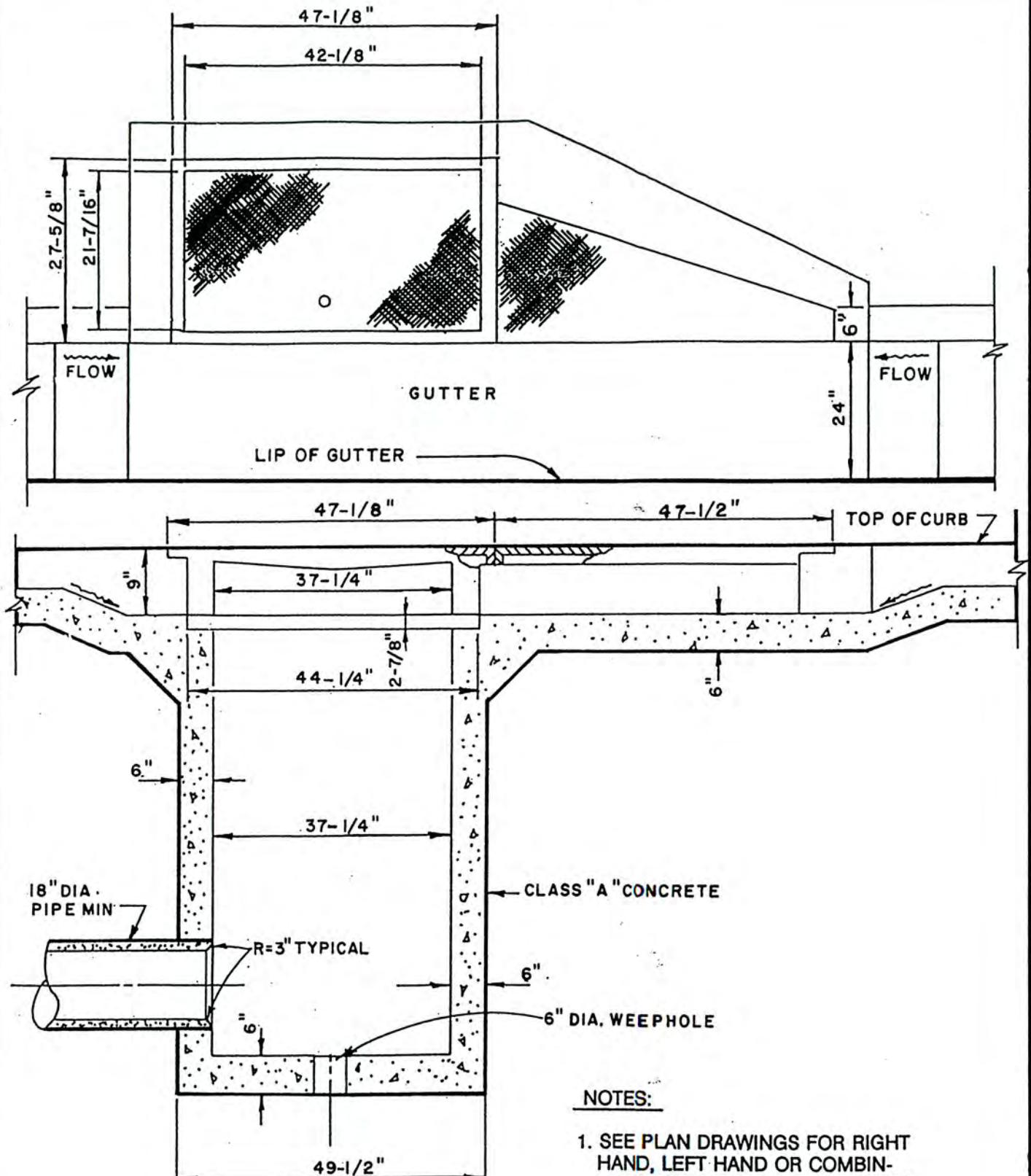


THROAT FORM & FRAME PLAN



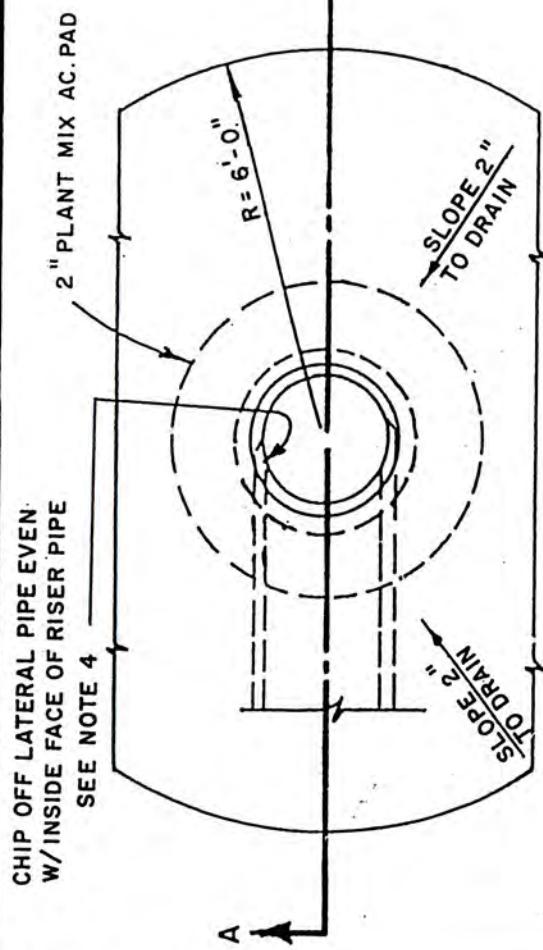
SIDE PLATE

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
		D-2
		3 OF 3
	CURB DRAIN INLET-OUTLET TYPE B	

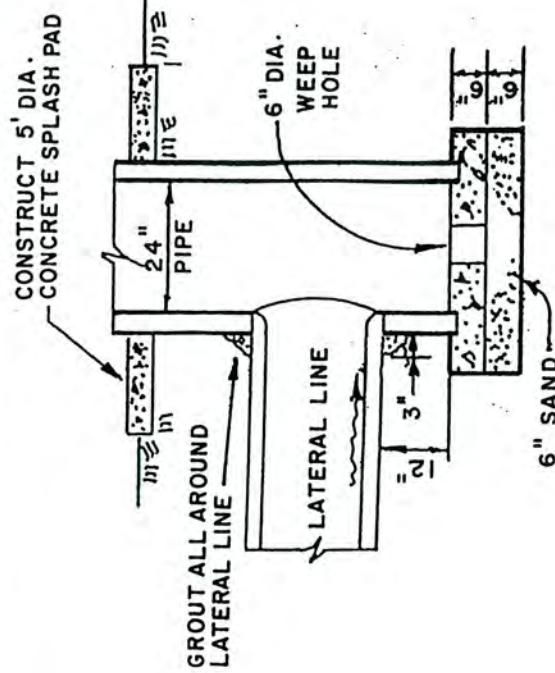


1. SEE PLAN DRAWINGS FOR RIGHT HAND, LEFT HAND OR COMBINATION WING TYPE. FRAME SHALL BE NEENAH FOUNDRY:
R-3317-R (RIGHT WING)
R-3317-L (LEFT WING)

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CURB DRAIN INLET-OUTLET TYPE C	
		D-3



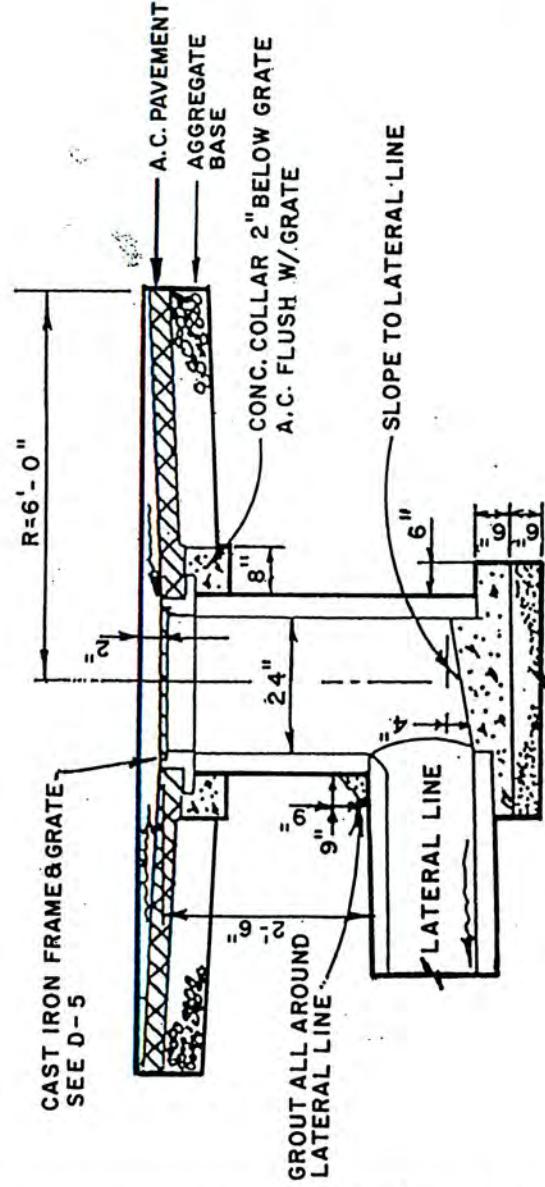
INLET PLAN



OUTLET DETAIL

NOTES:

1. 24" CONCRETE RISER PIPE SHALL BE ASTM C-76, CLASS III, RCP.
2. BREAK OUT RISER PIPE AND CUT LATERAL LINE NEATLY ALONG JOINT. FILL JOINT SPACE WITH GROUT.
3. ALL CONCRETE SHALL BE CLASS "A".
4. AT THE CONTACT POINT BETWEEN THE LATERAL LINE AND THE INLET WALL A SMOOTH 3" RADIUS CURVE SHALL BE CONSTRUCTED.
5. FLOOR OF THE INLET SHALL SLOPE TO THE LATERAL LINE AND SHALL BE GIVEN A STEEL TROWELED FINISH.



SECTION A-A

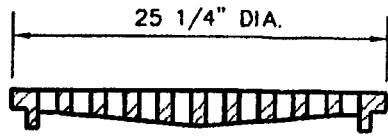
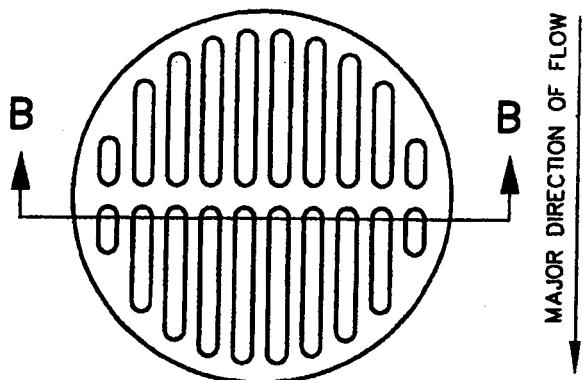
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

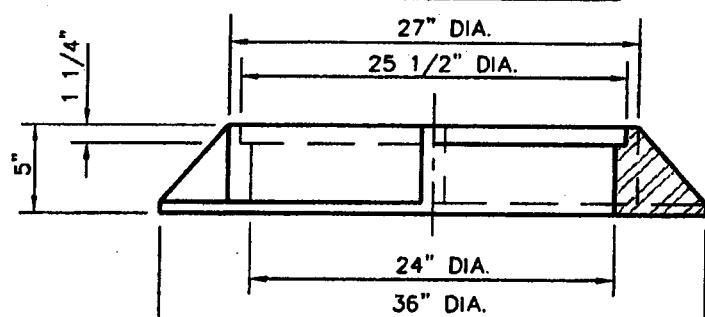
DRAIN INLET-OUTLET TYPE D

D-4

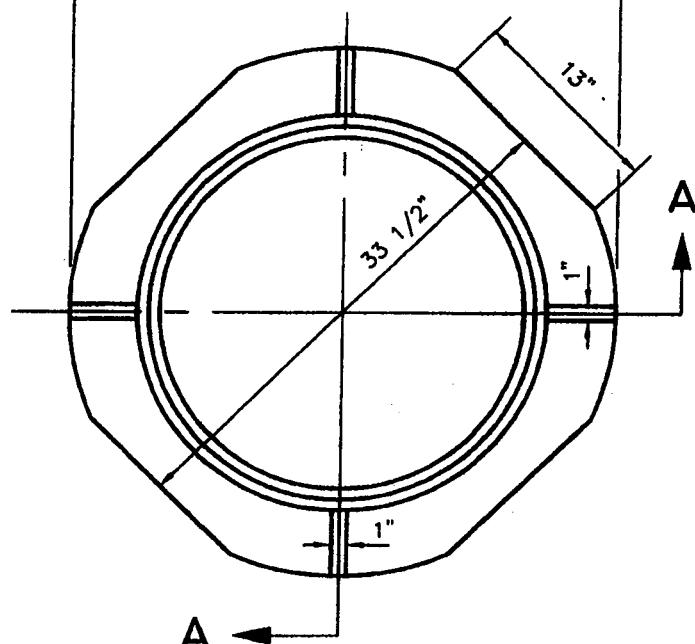


SECTION B - B

DRAIN INLET GRATE



SECTION A - A

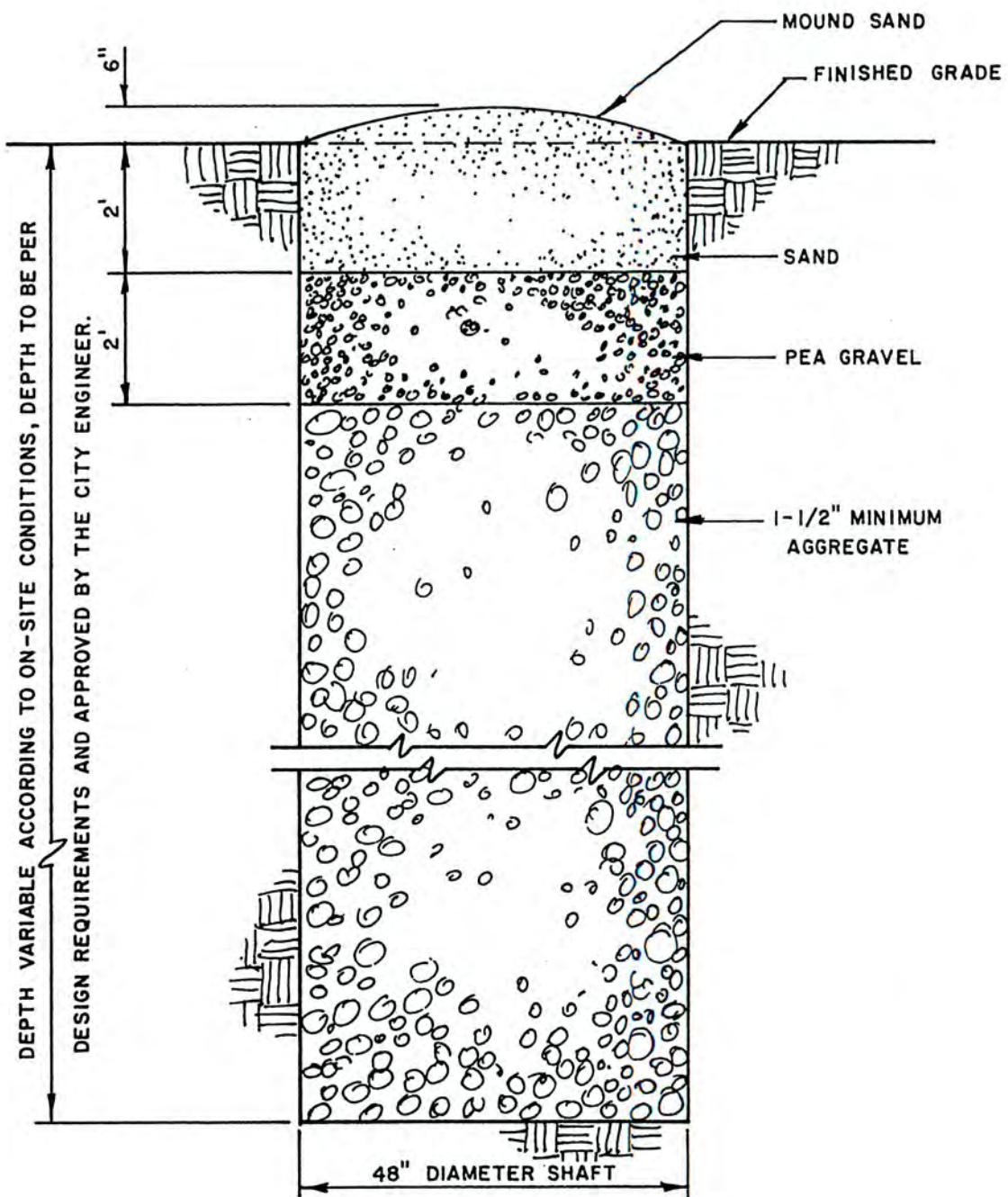


DRAIN INLET FRAME

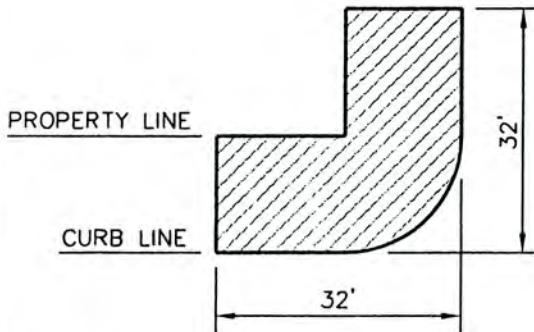
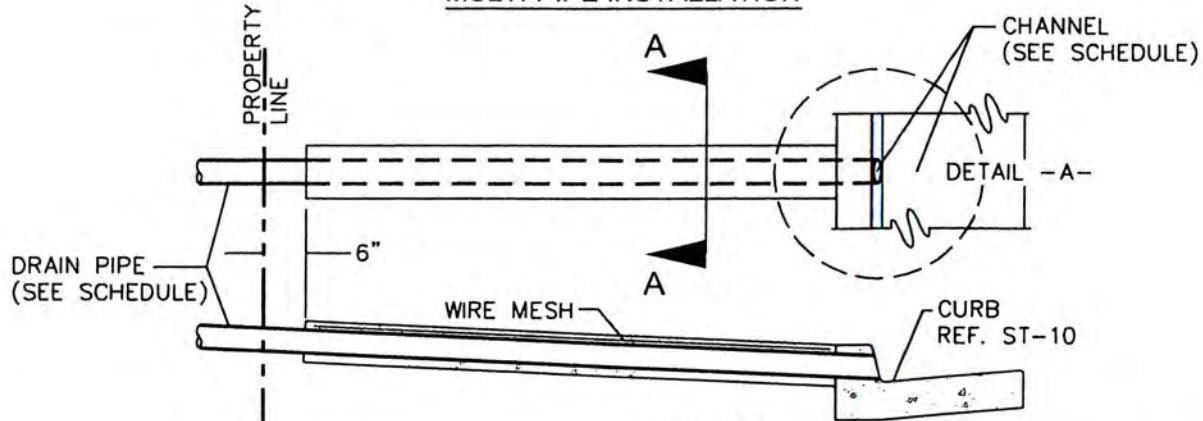
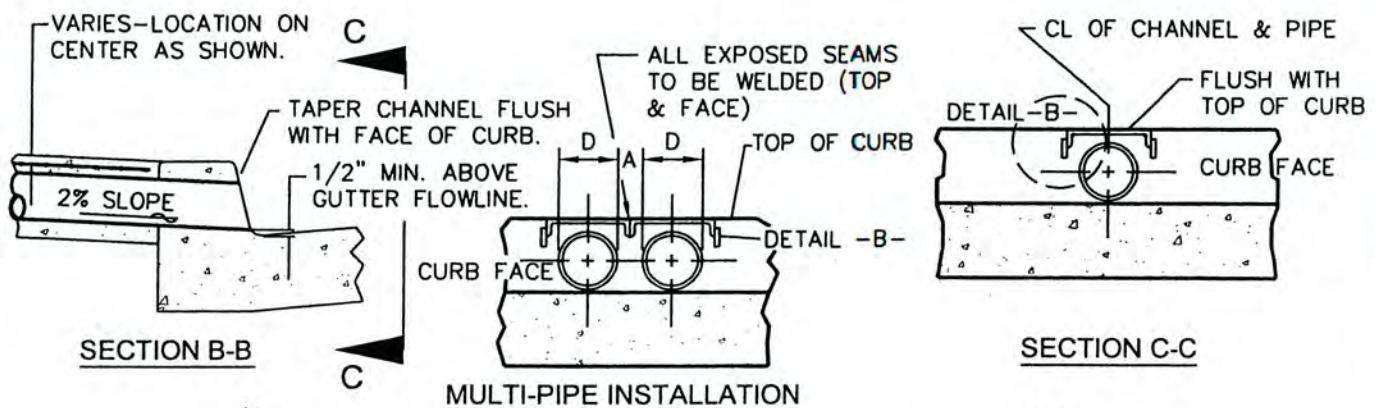
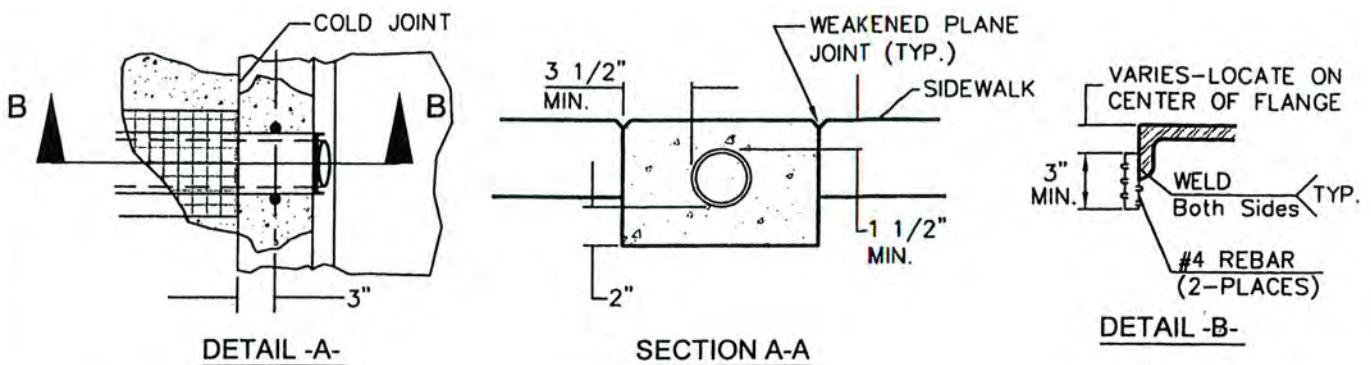
NOTES:

1. ALL MATERIALS USED IN MANUFACTURING SHALL CONFORM TO ASTM 48, CLASS 35B.
2. FRAME AND COVER BEARING SURFACES SHALL BE MACHINED TO ASSURE CLOSE, QUIET FIT.
3. CASTINGS SHALL BE DIPPED IN BLACK BITUMINOUS PAINT. FRAME AND COVER EXCEEDS H-20 WHEEL LOADING.
4. GRATE SHALL BE INSTALLED SUCH THAT THE SLOTS ARE PARALLEL TO MAJOR DIRECTION OF DRAINAGE FLOW.
5. DRAIN INLET GRATE AND COVER SHALL BE SOUTH BAY FOUNDRY, C 7 (SBF 1000) OR APPROVED EQUAL. TELEPHONE (209) 367-1940

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
6-25-07		
DRAIN INLET FRAME & GRATE		D-5



REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
	STANDARD DRYWELL		D-6



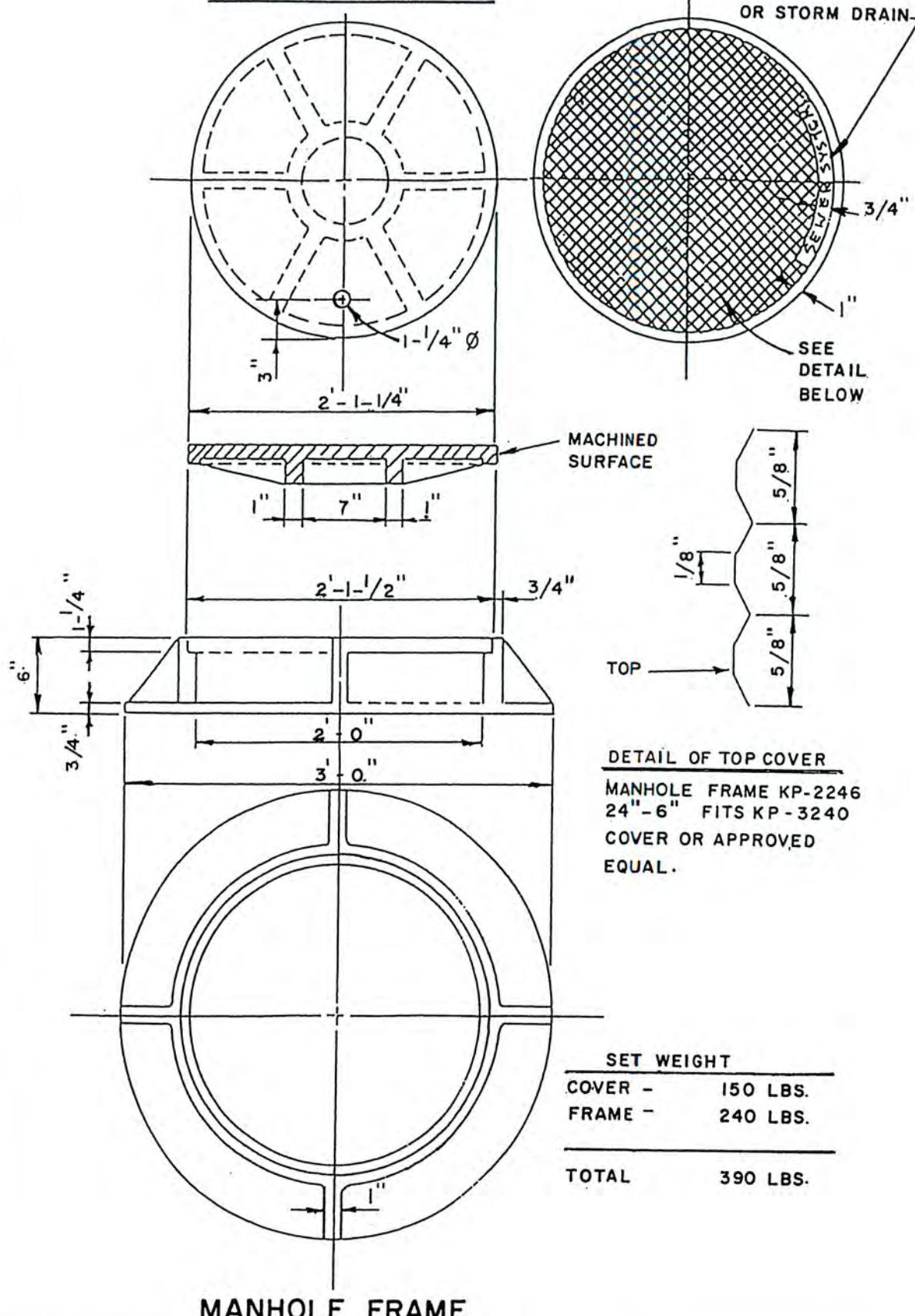
BLOCK CORNER

CHANNEL MATERIAL TO BE STD. GALV. OR EQUIV.,
UNLESS OTHERWISE APPROVED BY CITY ENGINEER.

SCHEDULE		
PIPE DIA.	CURB FACE	CHANNEL
3"	6" TO 8"	6"
4"	6" TO 8"	6"
6"	6" TO 10"	6"

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
2/21/06			
	SIDEWALK UNDERDRAIN PIPE		D-7

MANHOLE COVER



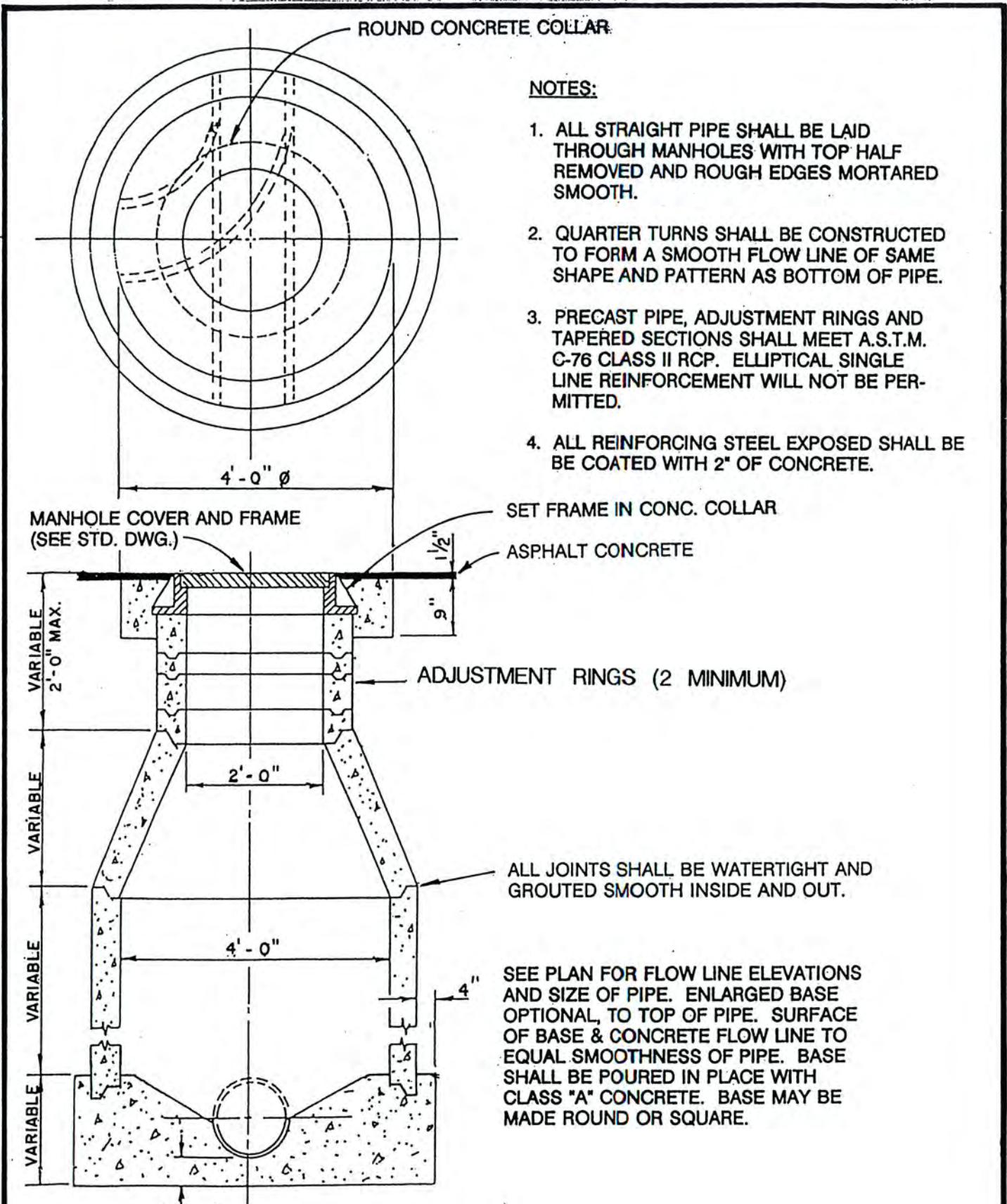
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

MANHOLE FRAME & COVER

S-1



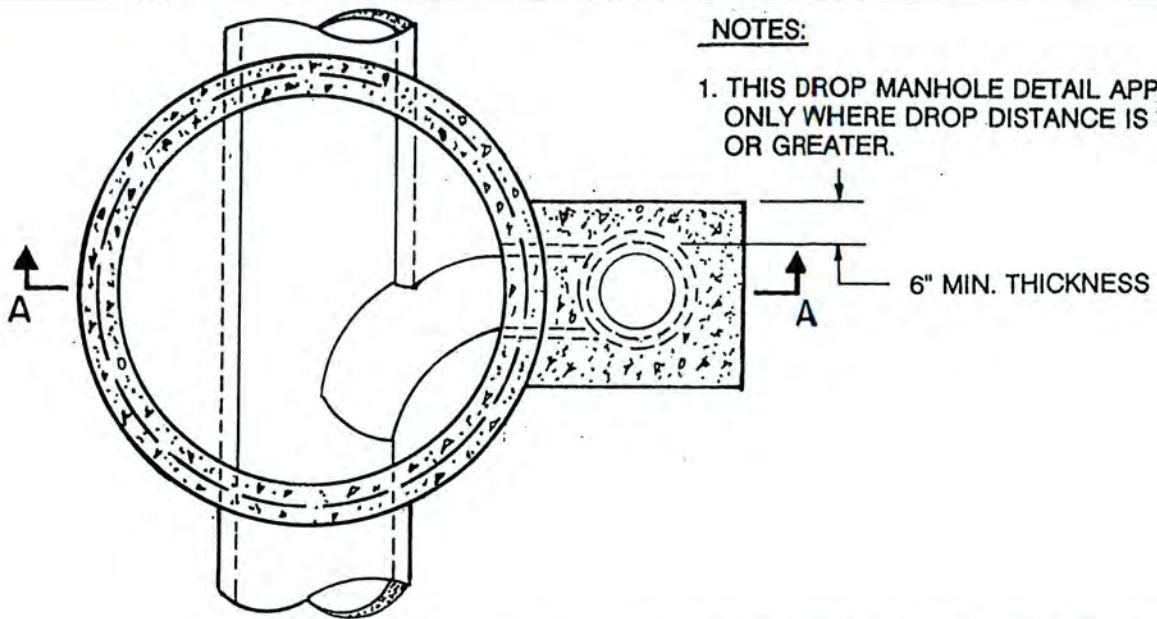
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

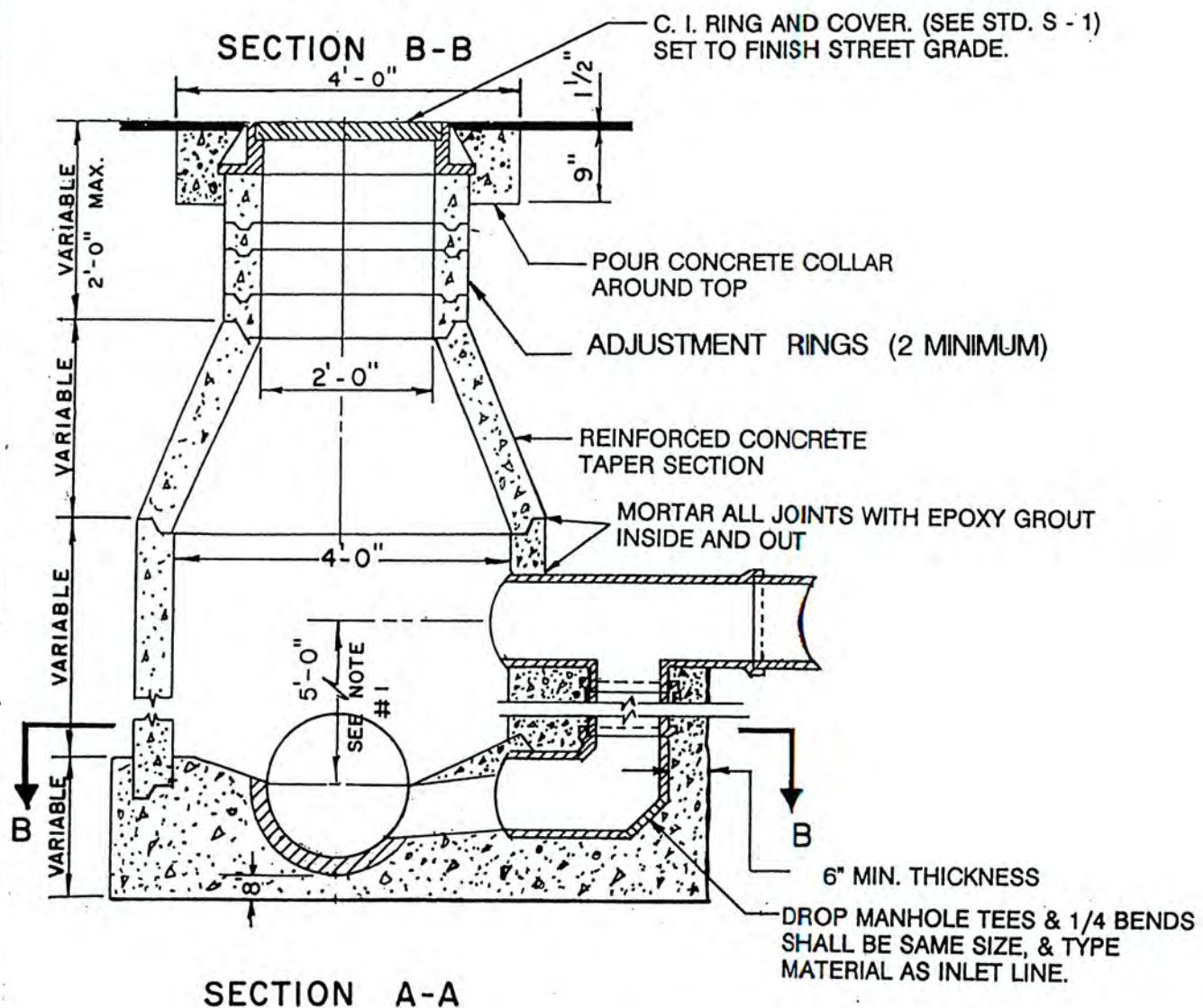
48" MANHOLE

S-2



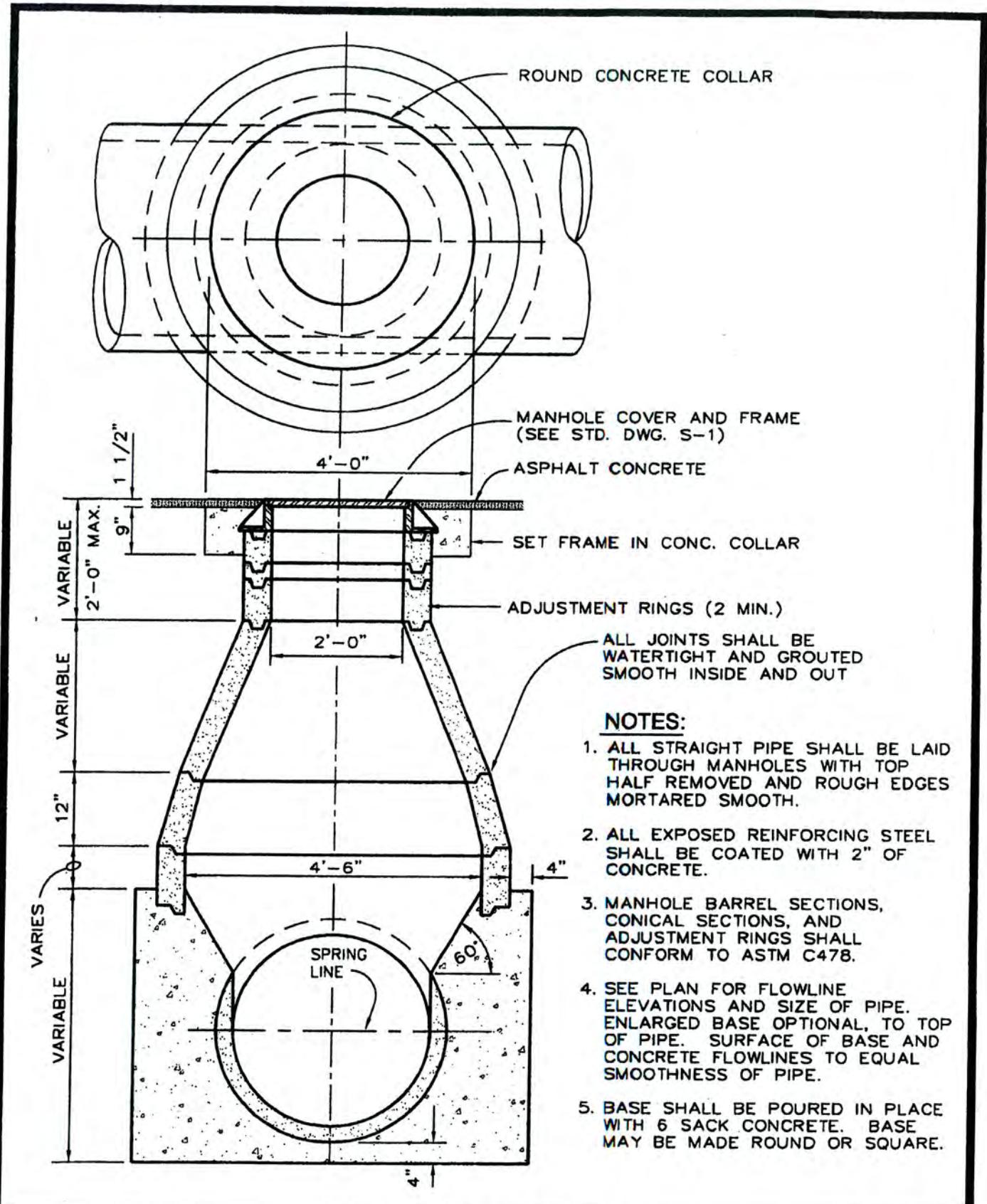
NOTES:

1. THIS DROP MANHOLE DETAIL APPLIES ONLY WHERE DROP DISTANCE IS 5'-0" OR GREATER.

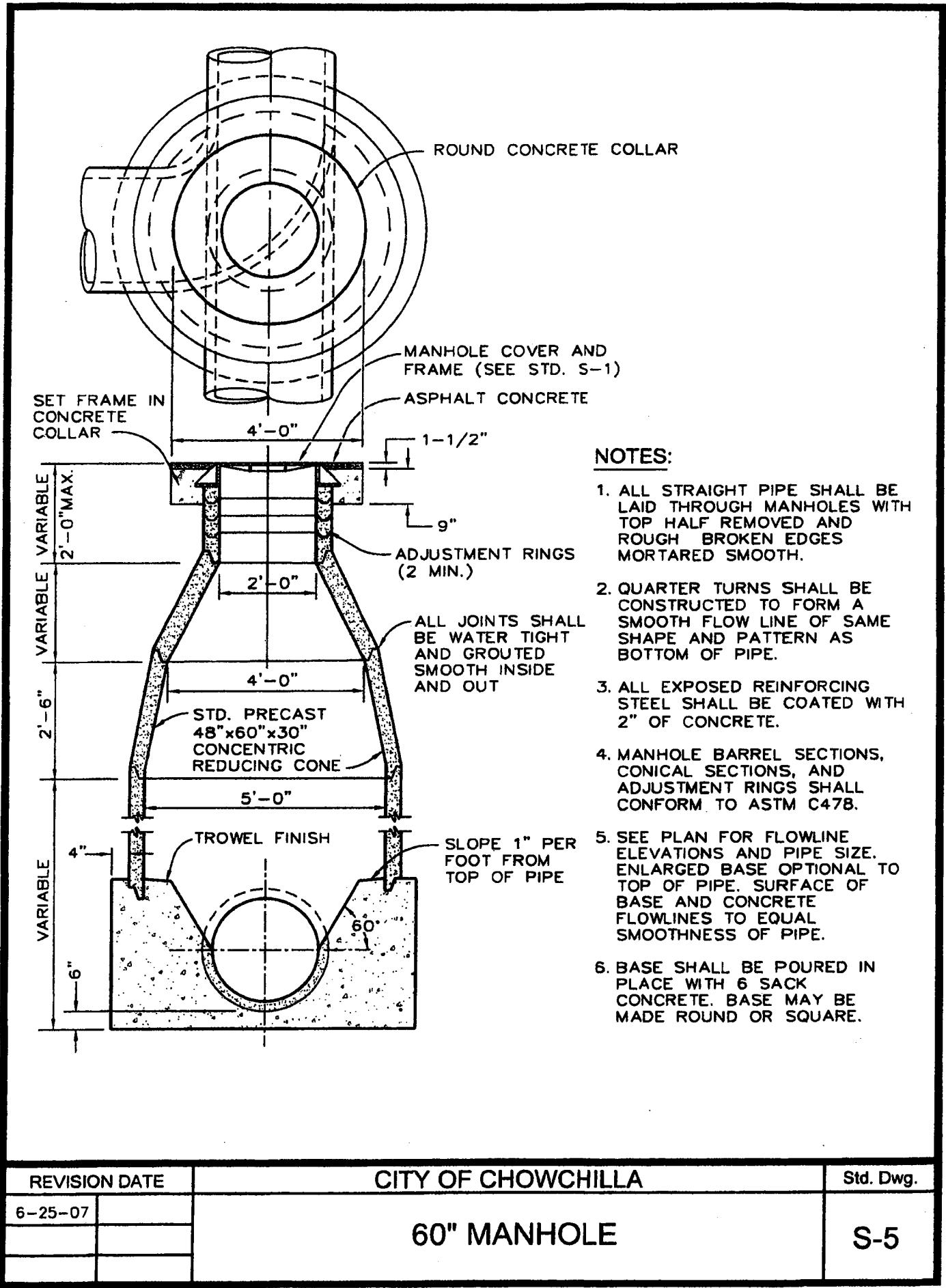


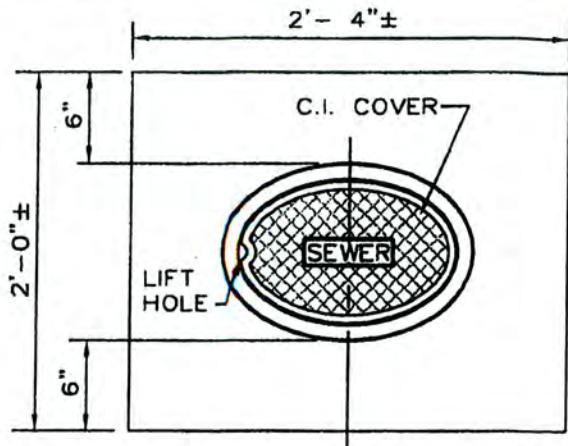
SECTION A-A

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	DROP MANHOLE	
		S-3

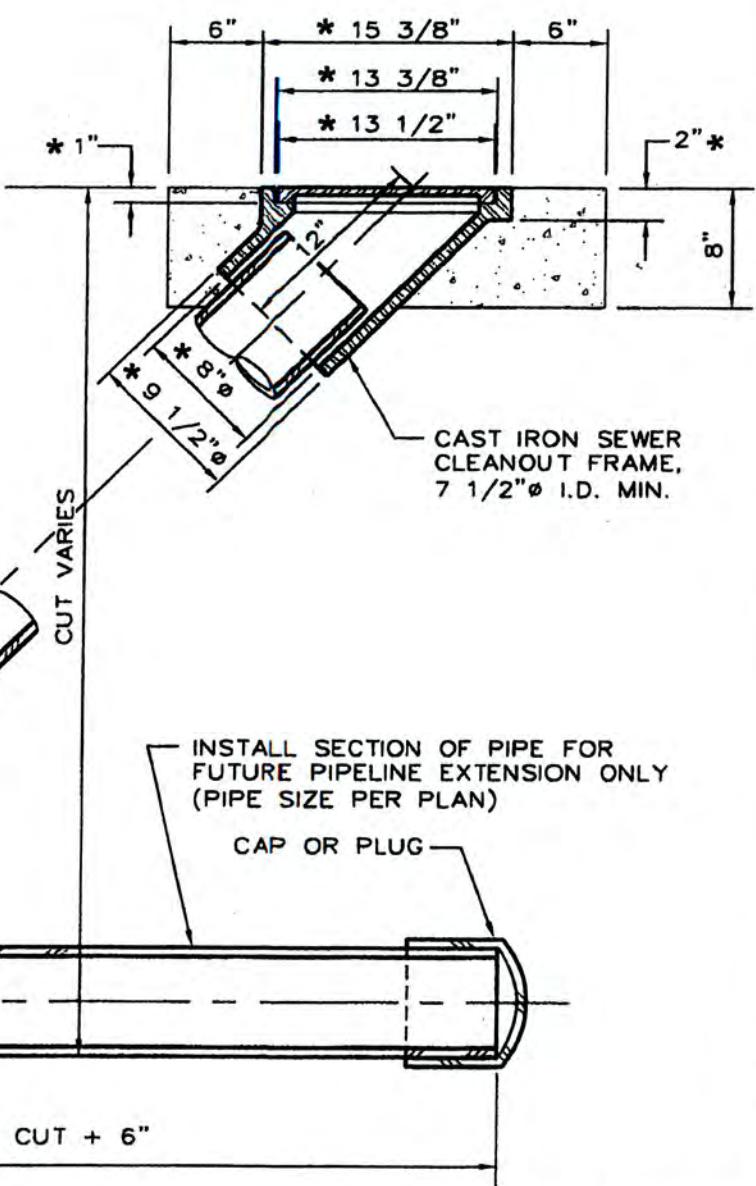


REVISION DATE	CITY OF CHOWCHILLA		STD. DWG.
6-25-07			
	54" MANHOLE		S- 4

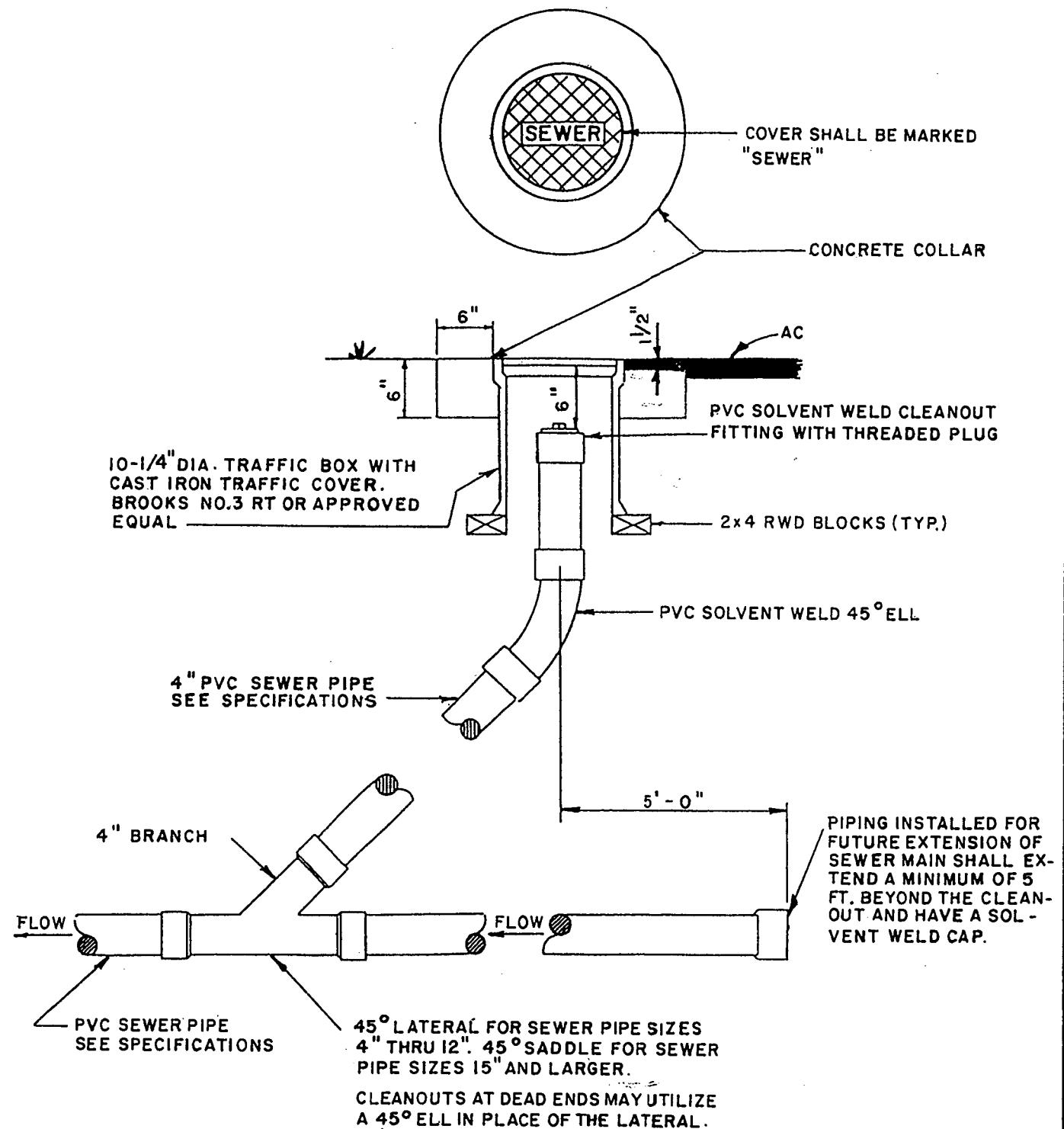




* DIMENSIONS VARY PER
MANUFACTURER. SOUTH
BAY FOUNDRY, SBF 1247
OR AN APPROVED EQUAL.
(209) 367-1940



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
6-25-07	SLOPING LAMPHOLE WITH CAST IRON CLEANOUT AND COVER	S-6



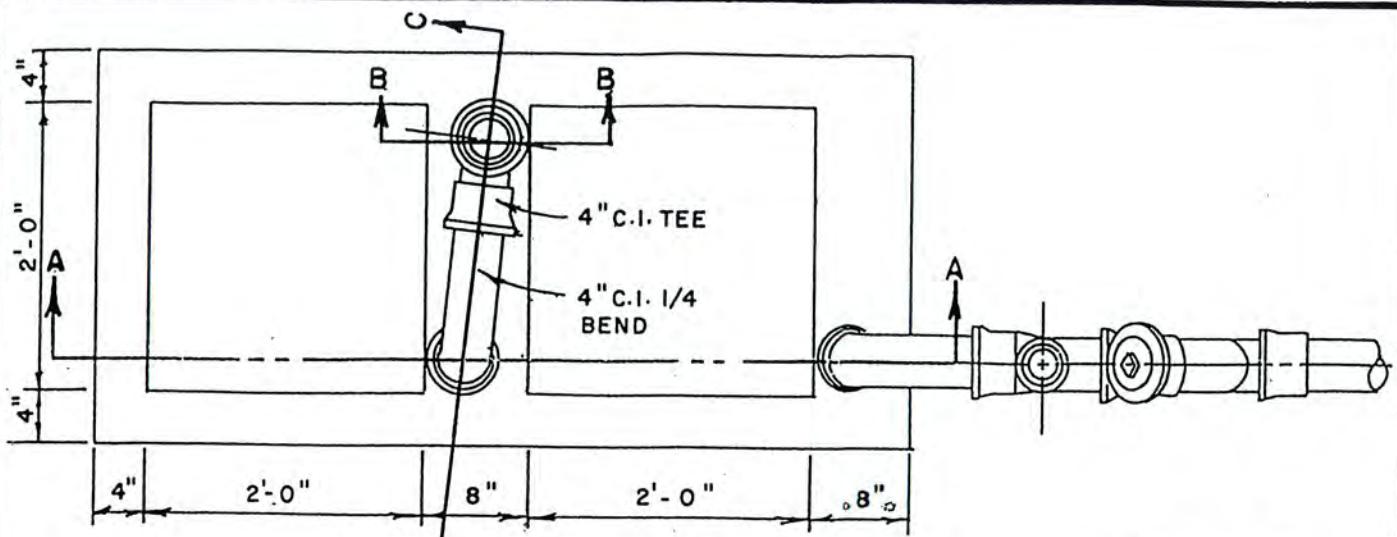
REVISION DATE

CITY OF CHOWCHILLA

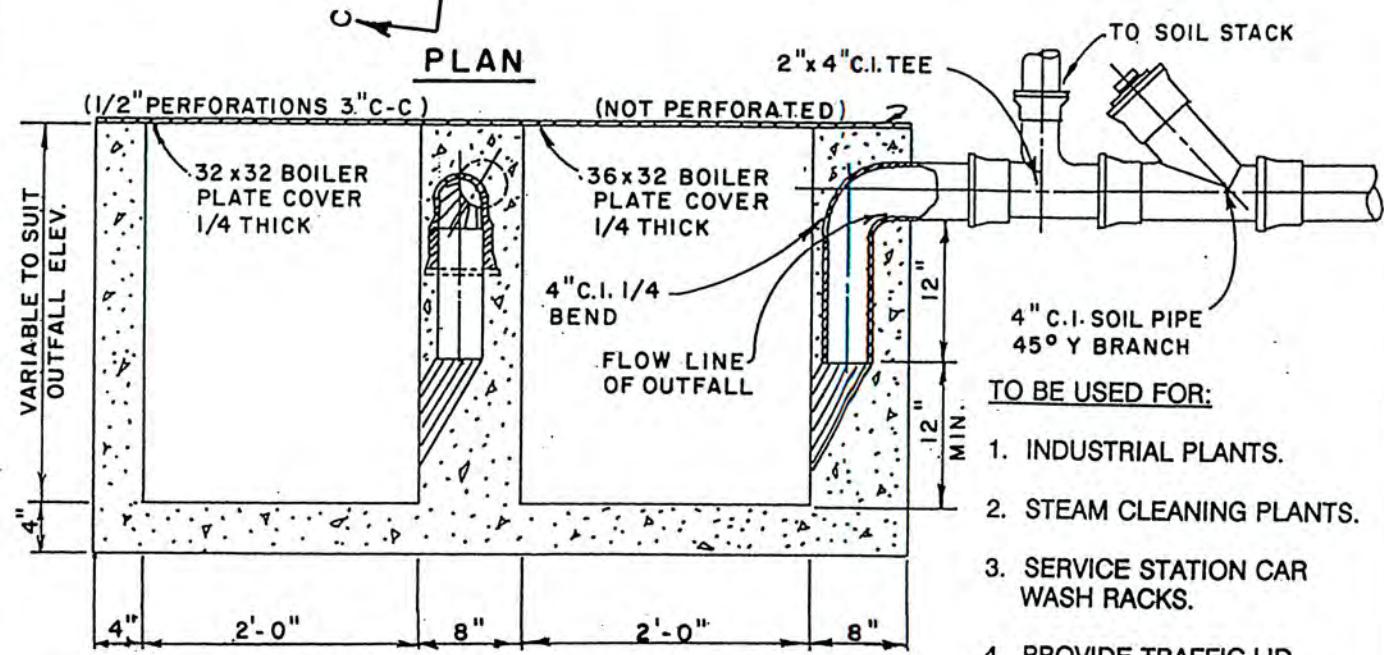
Std. Dwg.

SEWER CLEANOUT

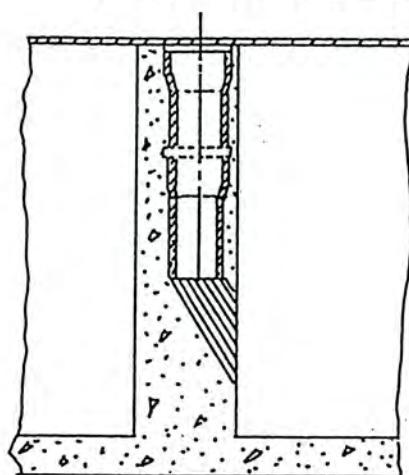
S-7



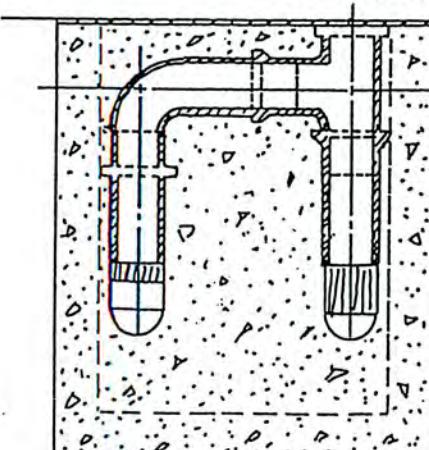
PLAN



ELEVATION SECTION A-A



SECTION B-B



SECTION C-C

TO BE USED FOR:

1. INDUSTRIAL PLANTS.
2. STEAM CLEANING PLANTS.
3. SERVICE STATION CAR WASH RACKS.
4. PROVIDE TRAFFIC LID IN TRAVELED WAY LOCATIONS.

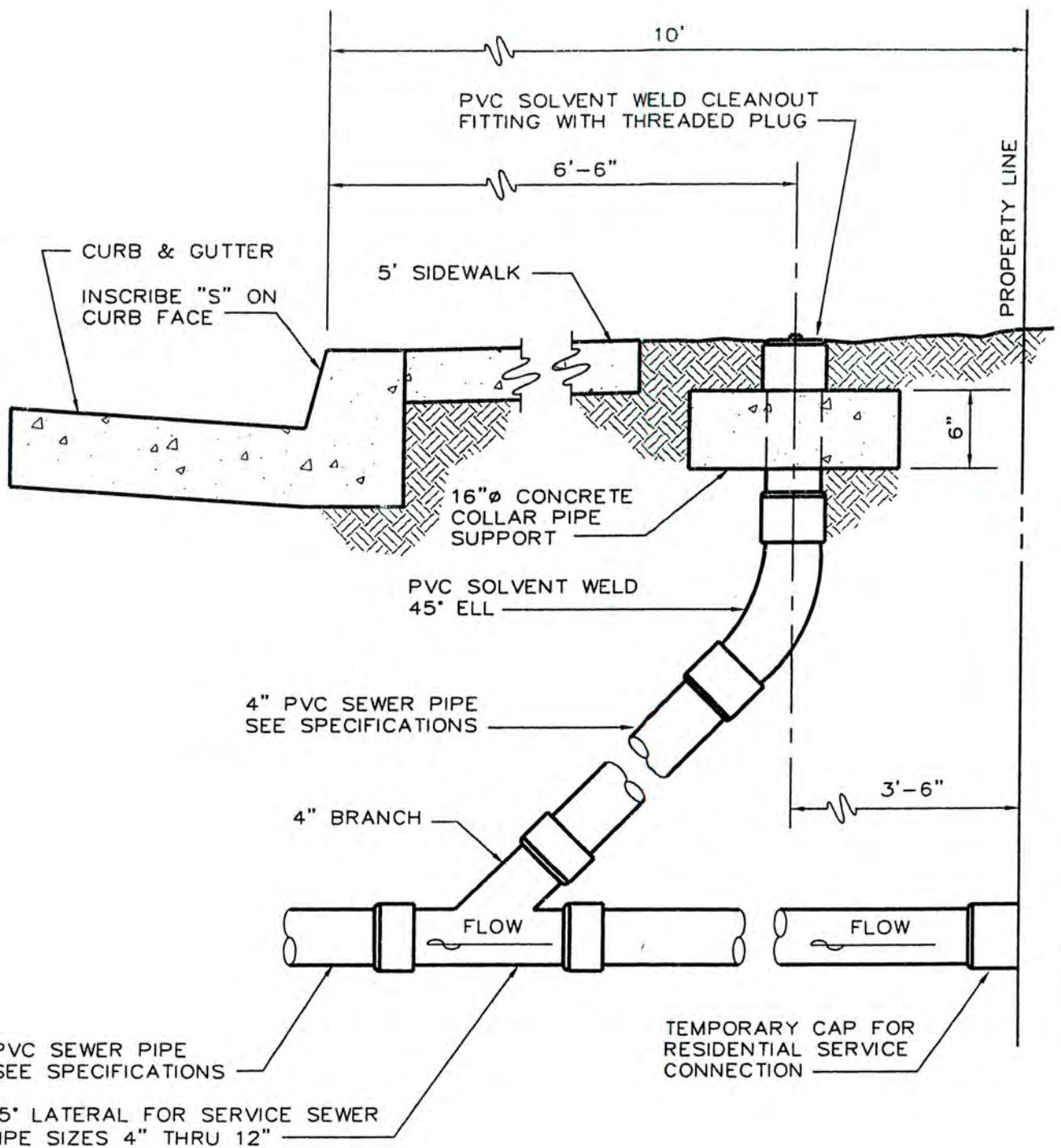
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

SAND & GREASE INTERCEPTOR

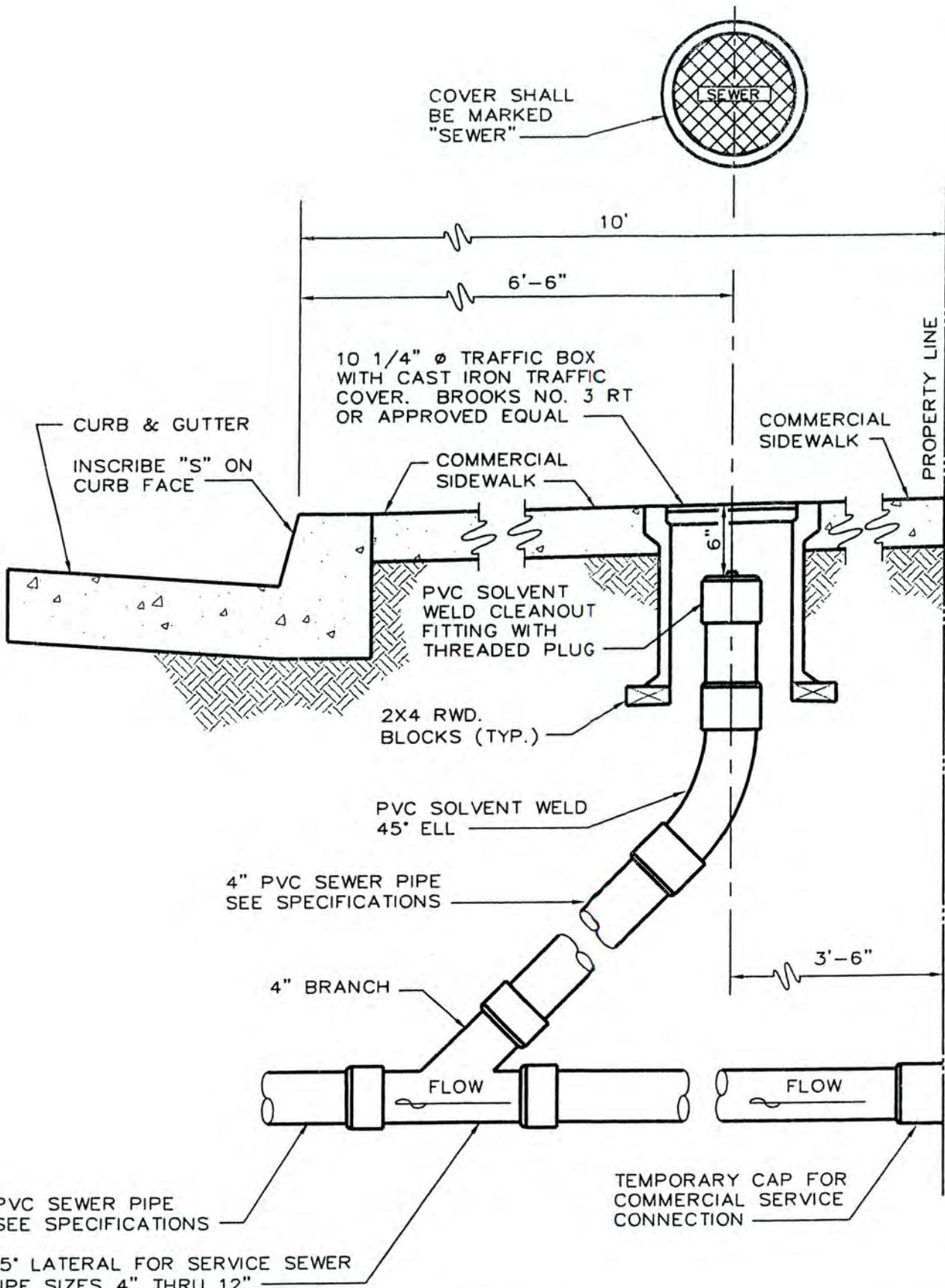
S-8



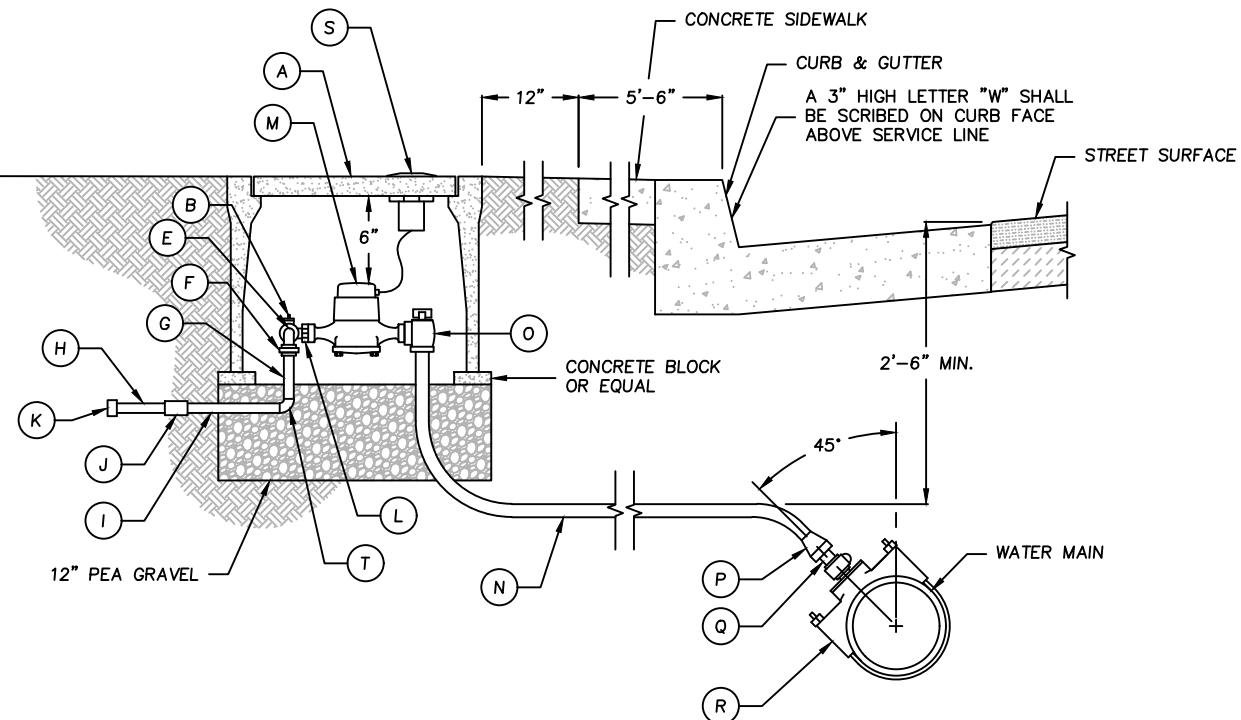
NOTE:

ALL RESIDENTIAL SERVICE CLEANOUTS CONSTRUCTED WITHIN CONCRETE DRIVE APPROACHES SHALL BE CONSTRUCTED PER COMMERCIAL APPROACH STANDARD S-9B.

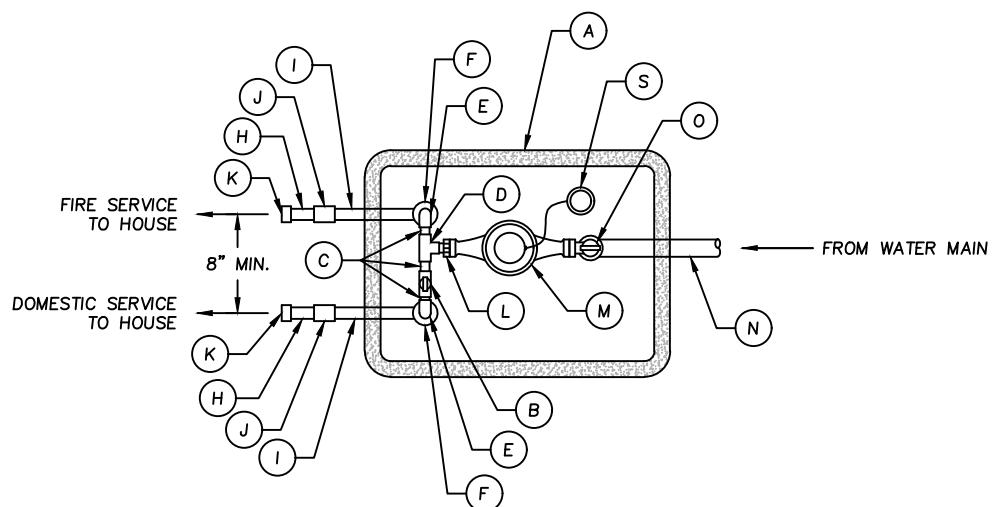
REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
10-25-04		
	RESIDENTIAL SERVICE SEWER CLEANOUT	S-9A



REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
10-25-04			
	COMMERCIAL SERVICE SEWER CLEANOUT		S-9B



SECTION VIEW



PLAN VIEW

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
03-10-21			
SERVICE CONNECTION			
W-1 1 OF 2			

KEYNOTES

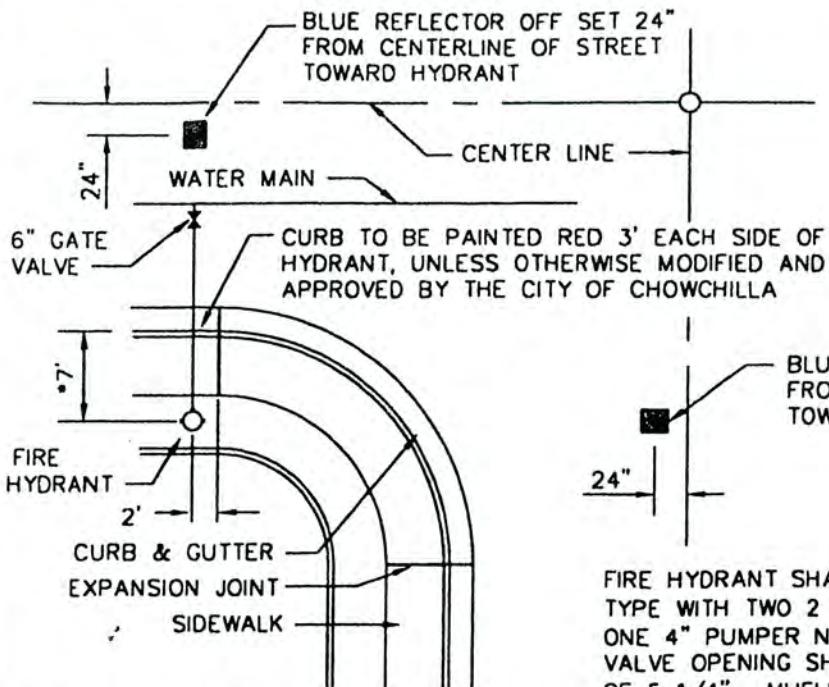
REINFORCED CONCRETE UTILITY BOX WITH EXTENSION (AS REQUIRED) AND FIBRELYTE LID. BLOCK ALL UNUSED OPENINGS. LID SHALL HAVE A 2"Ø RECESSED PROBE HOLE THROUGH LID. MIN. BOX SIZE AS FOLLOWS:

- (A) • 1 INCH, OR LESS, SERVICE: 12" X 22" BOX, CHRISTY B16 BOX WITH N16RP LID, OR APPROVED EQUAL.
 - 1-1/2 INCH SERVICE: 13" X 24" BOX, CHRISTY B30 BOX WITH N30RP LID, OR APPROVED EQUAL.
 - 2 INCH SERVICE: 17" X 30" BOX, CHRISTY B36 BOX WITH N36RP LID, OR APPROVED EQUAL.
- (B) BALL VALVE WITH PADWING, FORD B11-444W-NL, OR APPROVED EQUAL
- (C) CLOSE BRASS NIPPLE
- (D) BRASS TEE, FIPT
- (E) 90° BRASS STREET ELBOW
- (F) BRASS UNION
- (G) 8" BRASS NIPPLE
- (H) SCH. 80 PVC PIPE. EXTEND TO 6" BEYOND PROPERTY LINE AND CAP. 1" MIN. FOR DOMESTIC SERVICE, 1-1/4" MIN. FOR FIRE SERVICE.
- (I) 12" BRASS NIPPLE
- (J) BRASS COUPLER, FIPT
- (K) PVC CAP (REMOVE WHEN CONTINUED TO STRUCTURE)
- (L) METER CONNECTION SHALL BE AS FOLLOWS (ALL SIZES: JAMES JONES CO. OR APPROVED EQUAL):
 - 1 INCH, OR LESS, SERVICE: BRONZE SWIVEL NUT METER COUPLING.
 - LARGER THAN 1 INCH SERVICE: BRONZE F.I.P. FLANGE.
- (M) WATER METERS SHALL BE AS FOLLOWS:
 - 1" INCH METERS SHALL BE BADGER RECORDALL MODEL 40 ENGINEERED POLYMER OR LEAD-FREE BRONZE ALLOY.
 - METERS LARGER THAN 1 INCH SHALL BE BADGER RECORDALL MODEL LEAD-FREE BRONZE ALLOY.ALL METERS SHALL HAVE A BADGER HR-E 8-DIAL REGISTER W/ NICOR CONNECTION. METERS SHALL REGISTER IN CUBIC FEET. MINIMUM SIZE FOR NEW SERVICE SHALL BE 1 INCH.
- (N) TYPE "K" SOFT-DRAWN COPPER TUBING OR POLYETHYLENE SERVICE TUBING, CTS, PE-4710 PER ASTM D3350, SDR 9, MINIMUM 1 INCH FOR NEW SERVICES.
- (O) ANGLE METER STOP, BRONZE, MUELLER, OR APPROVED EQUAL
- (P) SERVICE ADAPTER, BRONZE, MUELLER OR APPROVED EQUAL
- (Q) CORPORATION STOP, BRONZE, MUELLER OR APPROVED EQUAL
- (R) SERVICE SADDLE, DOUBLE STRAP, BRONZE, MUELLER OR APPROVED EQUAL
- (S) BADGER ORION SE ENDPOINT (LID MOUNTED) W/ NICOR CONNECTION
- (T) 90° BRASS ELBOW

NOTES

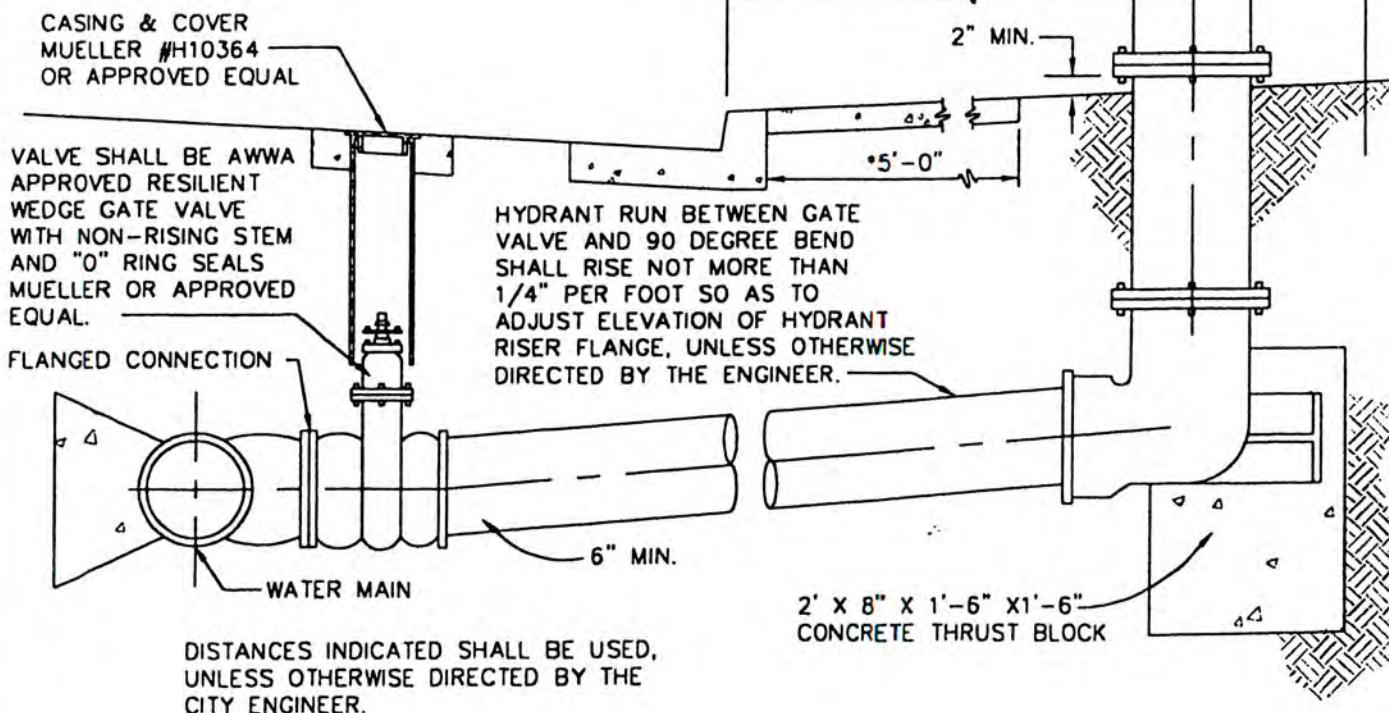
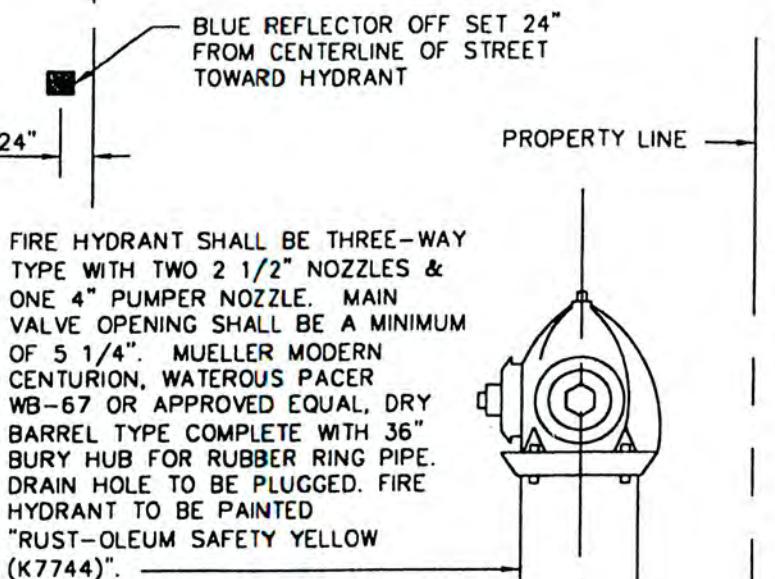
1. WHEN NON-CONTIGUOUS SIDEWALK IS APPROVED, METER AND BOX SHALL BE LOCATED IN PARK STRIP.
2. NO METERS WILL BE ALLOWED IN DRIVEWAYS.
3. ALL MATERIALS MUST BE NSF-61 ANNEX G CERTIFIED.
4. METERS LARGER THAN 2 INCH REQUIRE SPECIAL APPROVAL BY CITY ENGINEER. SIZE OF METERS MUST MEET U.P.C. REQUIREMENTS.
5. MAXIMUM NUMBER OF DWELLING UNITS CONNECTED TO A COMBINATION RESIDENTIAL DOMESTIC AND FIRE SERVICE SHALL NOT EXCEED ONE (1) DWELLING UNIT PER SERVICE.
6. ALL LAND USES, EXCEPT FOR SINGLE FAMILY RESIDENCES, REQUIRE SEPARATE METERS FOR DOMESTIC AND LANDSCAPE SERVICES.
7. COMMERCIAL/INDUSTRIAL METERS MUST BE DESIGNED FOR SPECIFIC WATER DEMANDS AND REQUIRE SPECIAL APPROVAL BY CITY ENGINEER.

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
03-10-21			
	SERVICE CONNECTION		W-1
			2 OF 2

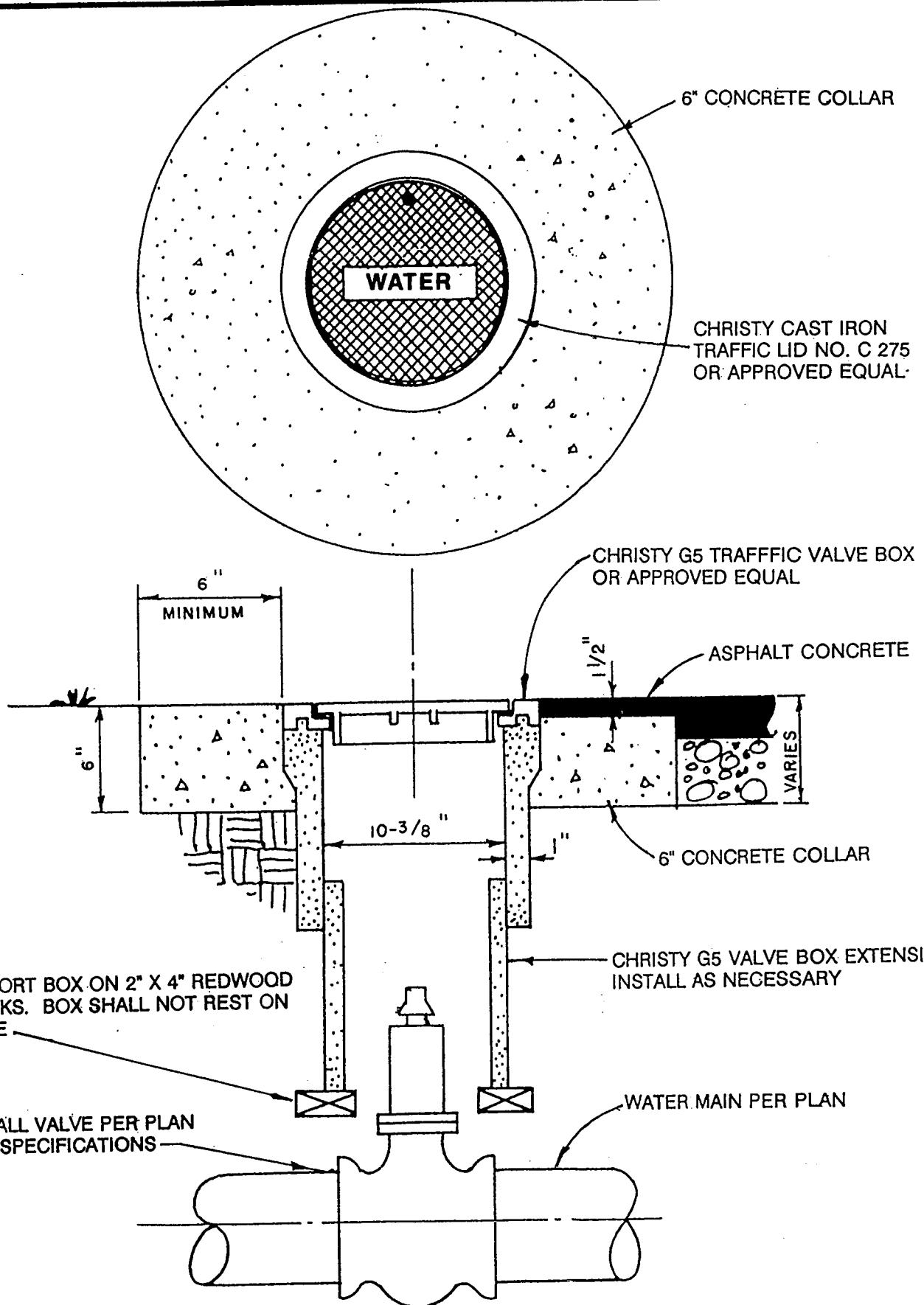


FIRE HYDRANT LOCATION PLAN

- FOR COMMERCIAL & SET BACK SIDEWALKS CENTER OF HYDRANT SHALL BE LOCATED 2'-9" FROM FACE OF CURB.



REVISION DATE	CITY OF CHOWCHILLA		STD. DWG.
9-24-90			
2-24-03	FIRE HYDRANT INSTALLATION & LOCATION		W-2



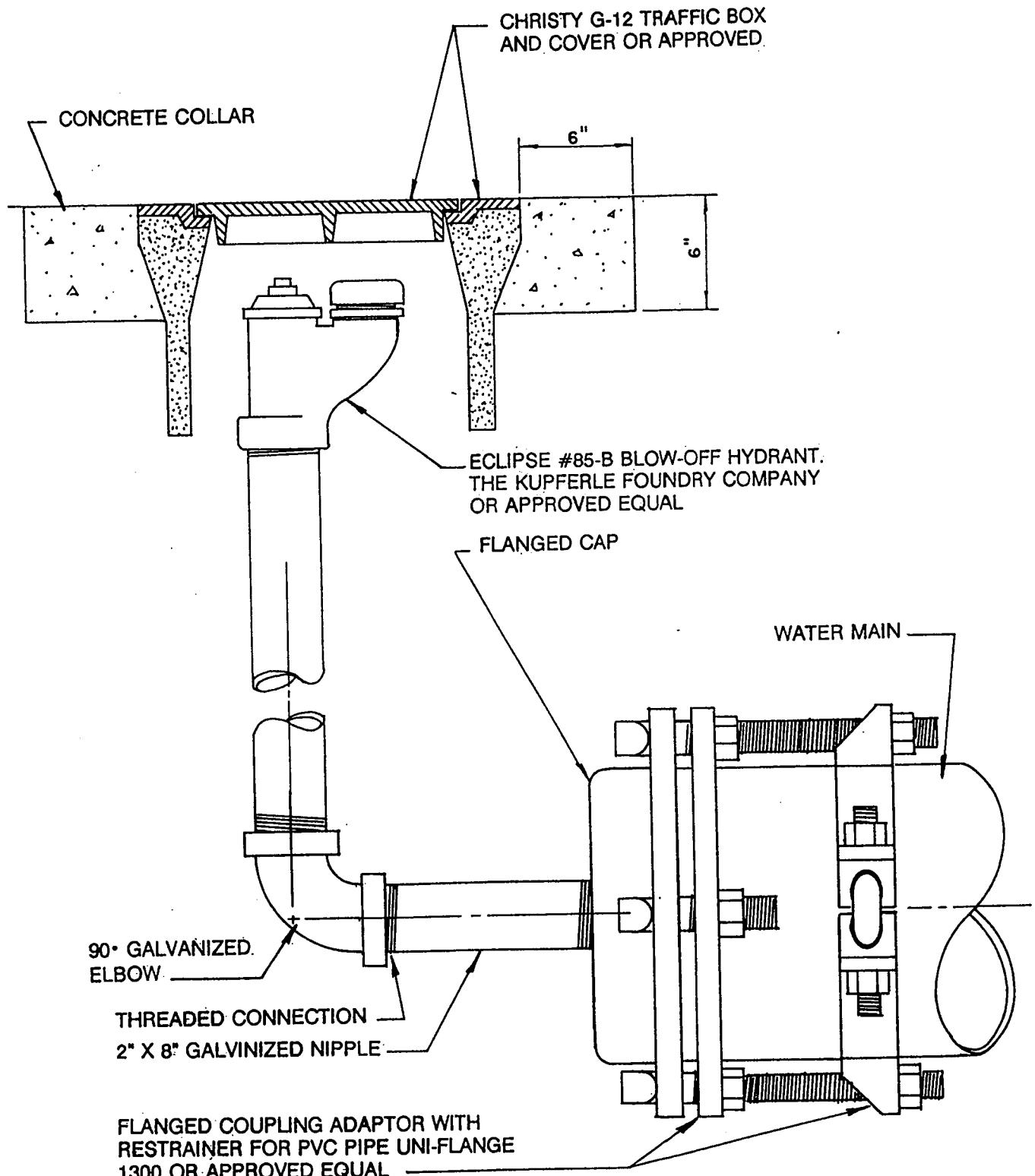
REVISION DATE

CITY OF CHOWCHILLA

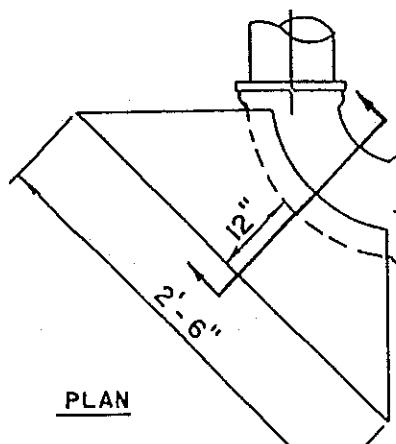
Std. Dwg.

VALVE BOX & COVER DETAIL

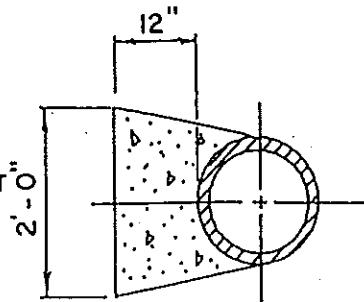
W-3



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	WATER MAIN BLOW-OFF	W-4

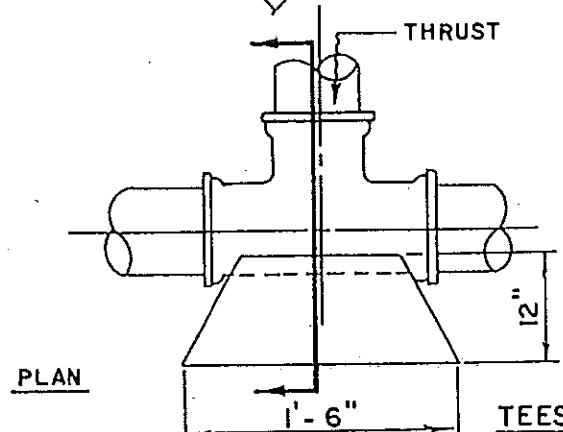


PLAN

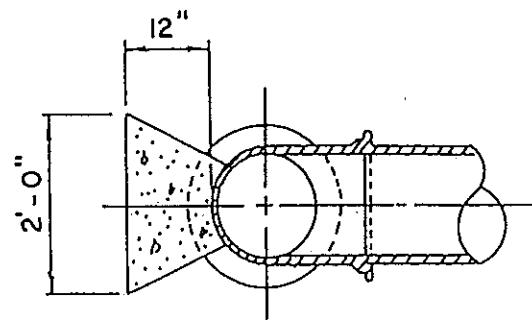


SECTION

BENDS

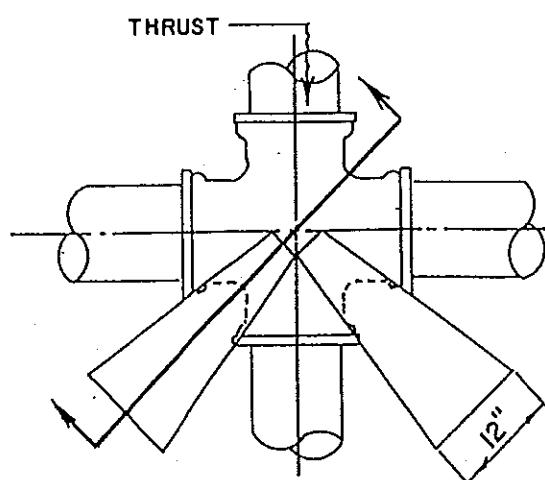


PLAN

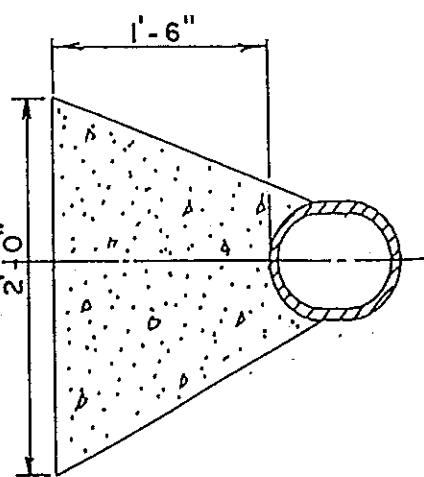


SECTION

TEES



PLAN



SECTION

CROSSES

NOTES:

1. ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL AND A MINIMUM THICKNESS OF 12 INCHES BETWEEN FITTINGS AND SOIL.
2. ALL DIMENSIONS SHOWN ARE MINIMUM. SEE THRUST BLOCK BEARING AREA CHART.
3. CONCRETE SHALL BE CLASS "B" PER STATE OF CALIFORNIA DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
4. SUPPORT AND PROTECT ALL PIPE. CONCRETE SHALL NOT BEAR AGAINST PIPES.

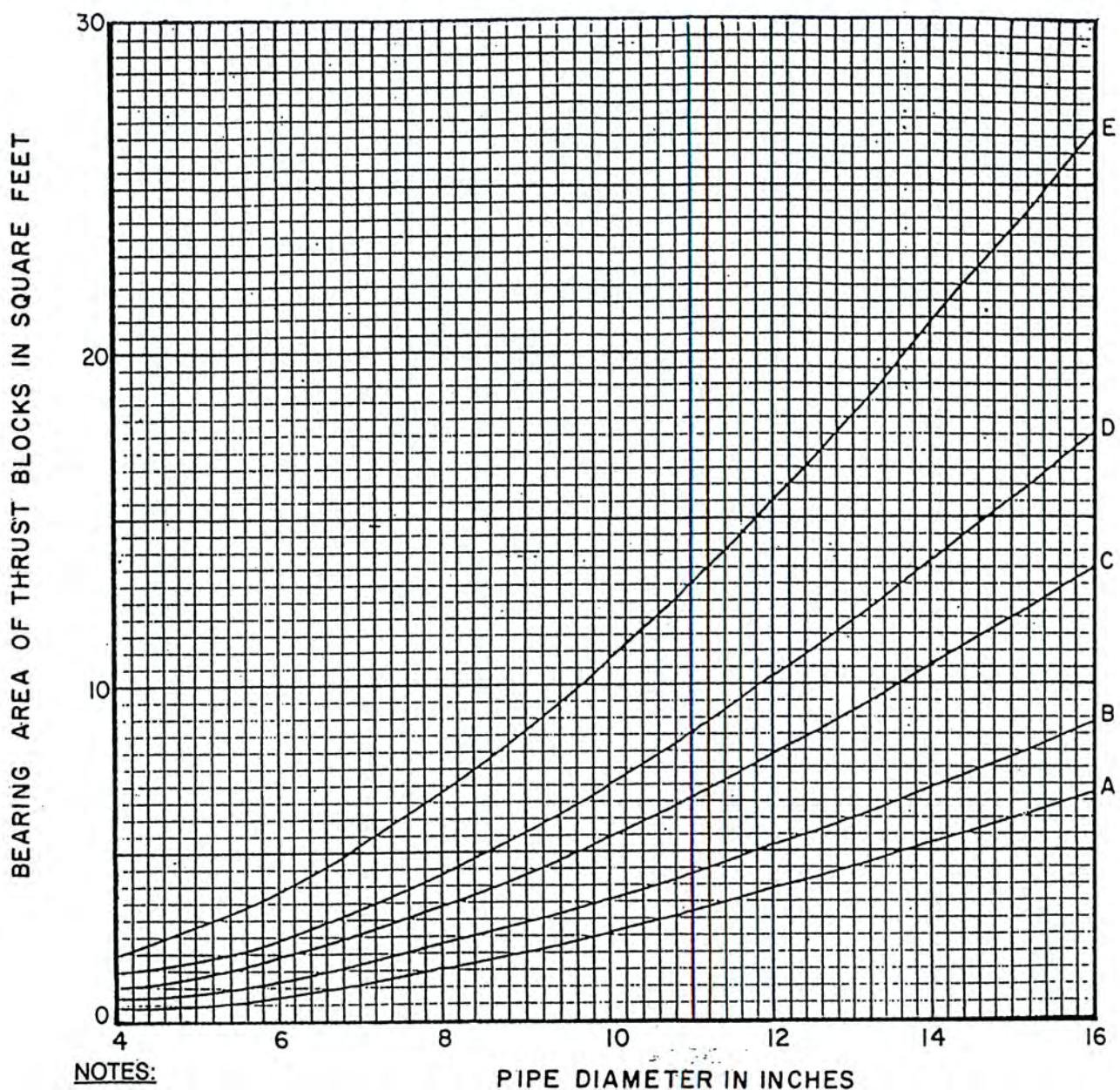
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

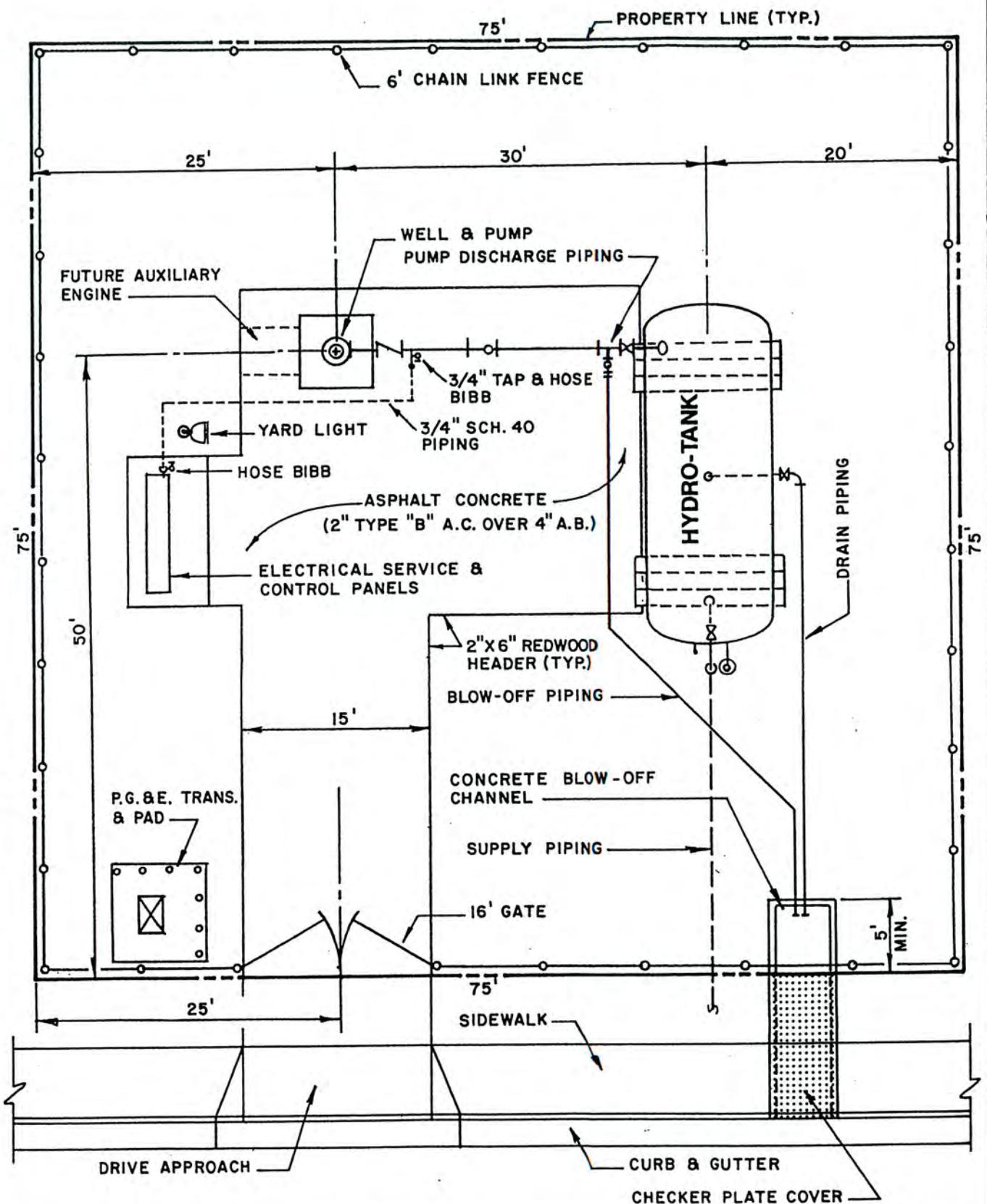
THRUST BLOCK DETAILS

W-5



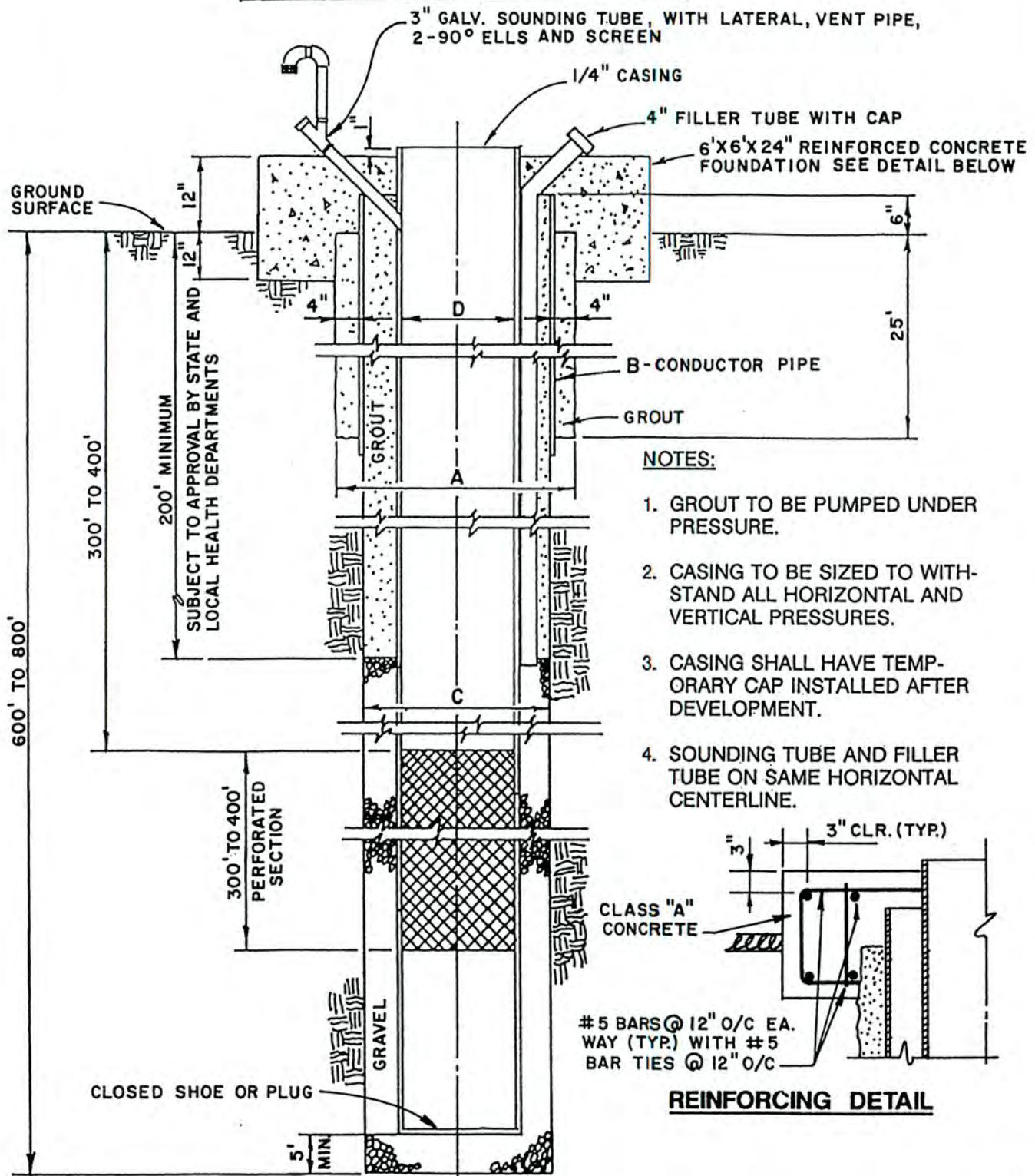
1. HORIZONTAL THRUST AT FITTINGS IS BASED ON 150 PSI WATER PRESSURE.
2. VALUES FROM CURVES ARE FOR TEES AND DEAD ENDS, i.e. STRAIGHT LINE THRUST. FOR OTHER FITTINGS, MULTIPLY THE BEARING AREA OBTAINED FROM CURVES BY THE THE FOLLOWING FACTORS: (FOR 90° BEND, 1.4) (FOR 45° BEND, 0.8) (FOR 22 1/2° BEND, 0.4)
3. SAFE BEARING LOADS ON UNDISTRUBED SOIL ARE AS FOLLOWS:
 CURVE A = 4000 PSF, MASSIVE CRYSTALLINE BEDROCK.
 CURVE B = 3000 PSF, SEDIMENTARY AND FOLIATED BEDROCK.
 CURVE C = 2000 PSF, SANDY GRAVEL AND / OR GRAVEL.
 CURVE D = 1500 PSF, SANDY, SILTY SAND OR GRAVEL AND CLAYEY SAND OR GRAVEL.
 CURVE E = 1000 PSF, CLAY, SANDY CLAY, SILTY CLAY, AND CLAYEY SILT.
4. THRUST BLOCKS FOR CONDITIONS NOT COVERED BY CURVES SHALL BE APPROVED BY THE CITY ENGINEER.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	THRUST BLOCK BEARING AREA	W-6



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	STANDARD WELL SITE	W-7

PUMP CAPACITY GPM	DIAMETER - INCHES			
	A	B	C	D
1,000.	44	36	30	16
1,500	44	36	32	20
2,000	48	40	36	24



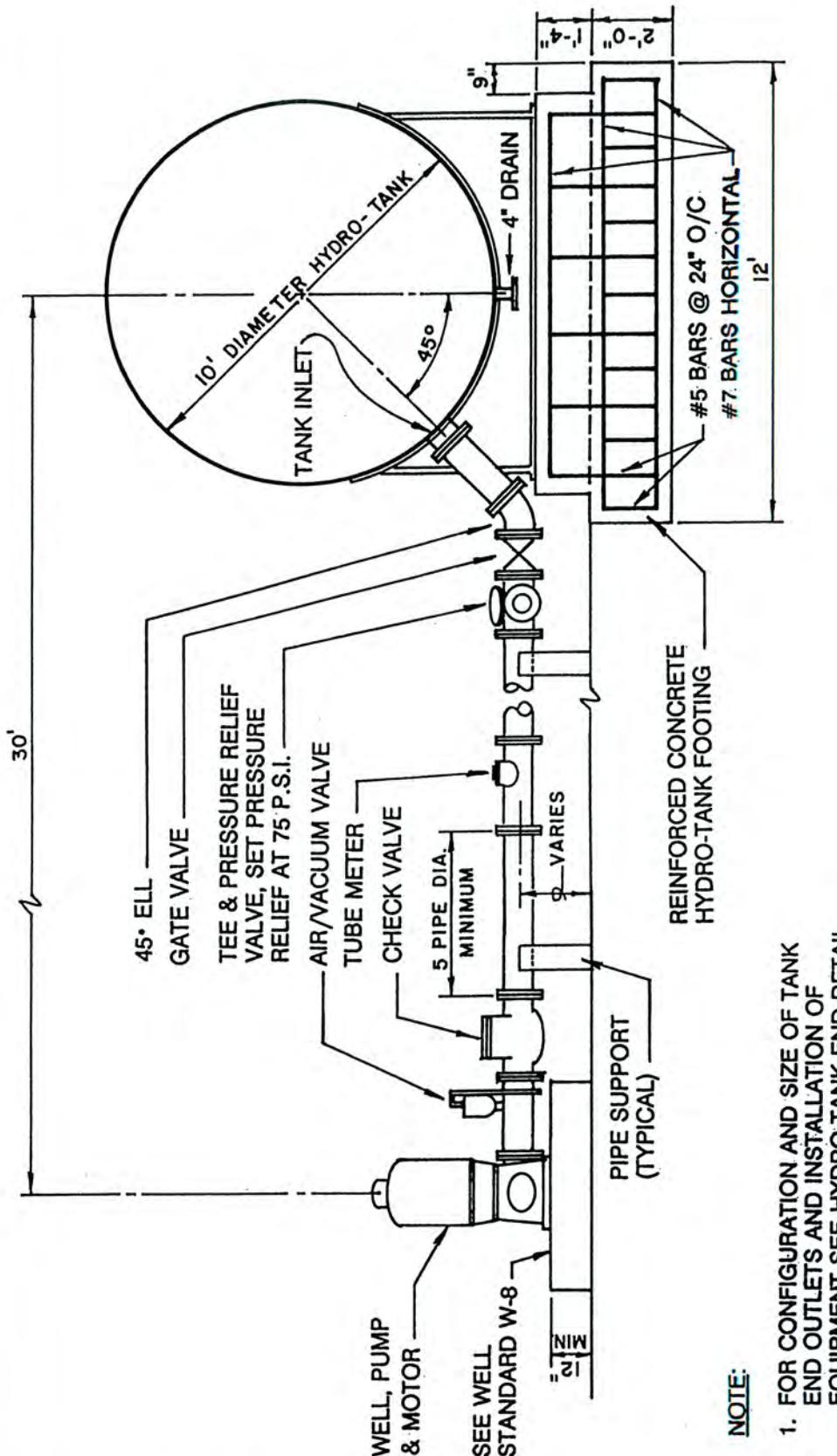
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

STANDARD WELL SECTION
GRAVEL PACK WELL

W-8



NOTE:

1. FOR CONFIGURATION AND SIZE OF TANK END OUTLETS AND INSTALLATION OF EQUIPMENT SEE HYDRO-TANK END DETAIL AND HYDRO-TANK SIDE ELEVATION DETAIL.
2. FOR SOIL BEARING PRESSURE UNDER 1800 P.S.F. HYDRO-TANK FOOTINGS SHALL BE DESIGNED AND SUBMITTED TO CITY ENGINEER FOR APPROVAL.

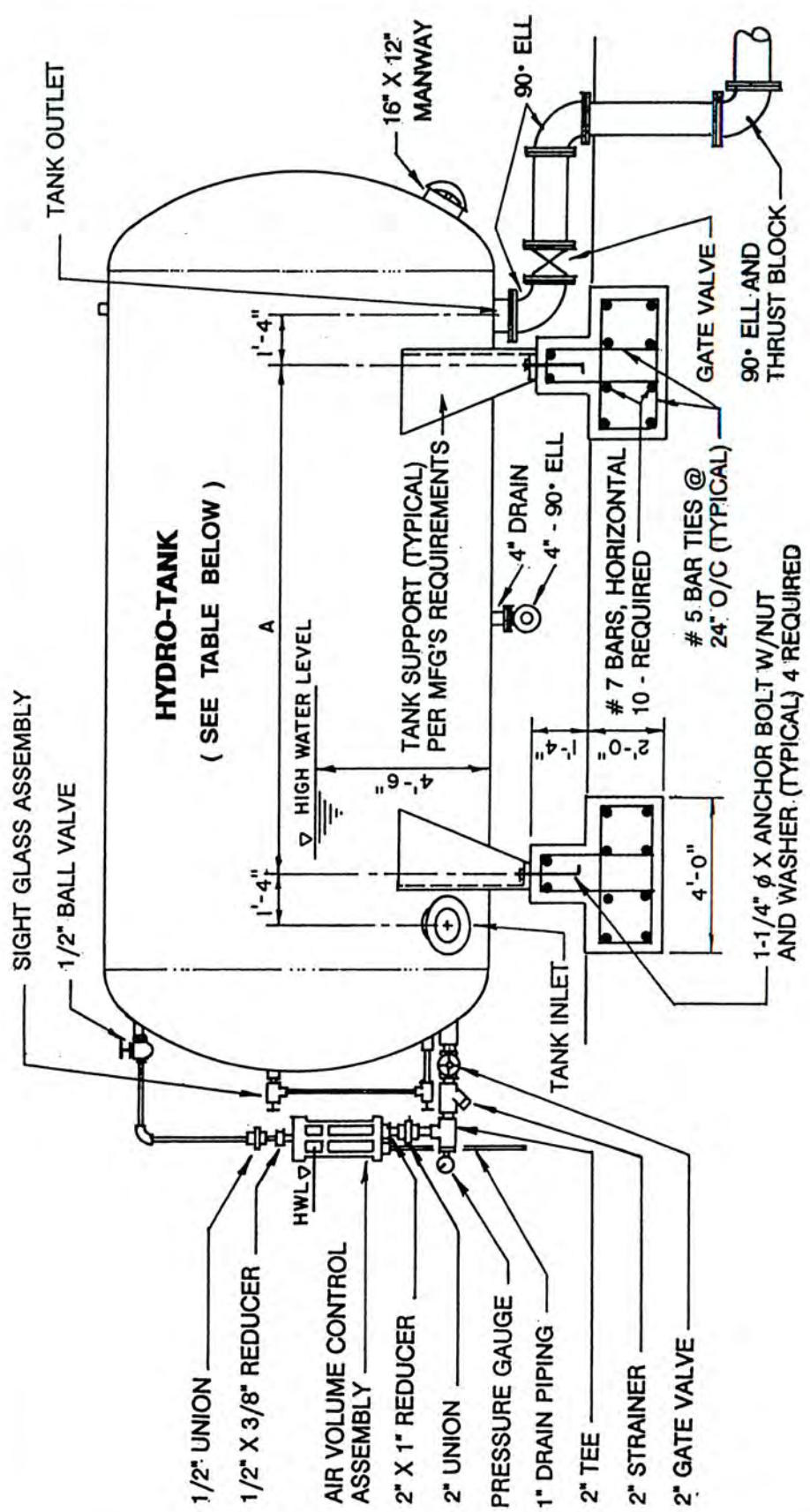
REVISION DATE	

CITY OF CHOWCHILLA

Std. Dwg.

**HYDRO-TANK
END ELEVATION DETAIL**

W-9



PUMP CAPACITY GPM	HYDRO-TANK CAPACITY GALLONS	DIMENSION A FT - INCHES	INLET/OUTLET PIPE SIZE INCHES
1,000 - 1,250	12,000	12 - 2	10
1,250 - 1,500	15,000	17 - 3	10
1,500 - 1,750	18,000	22 - 4	12
1,750 - 2,000	20,000	25 - 9	12

NOTE

1. FOR LOCATION AND SIZE OF TANK END OUTLETS SEE HYDRO-TANK END DETAIL
2. SEE TABLE FOR HYDRO-TANK INLET AND OUTLET PIPE SIZE.

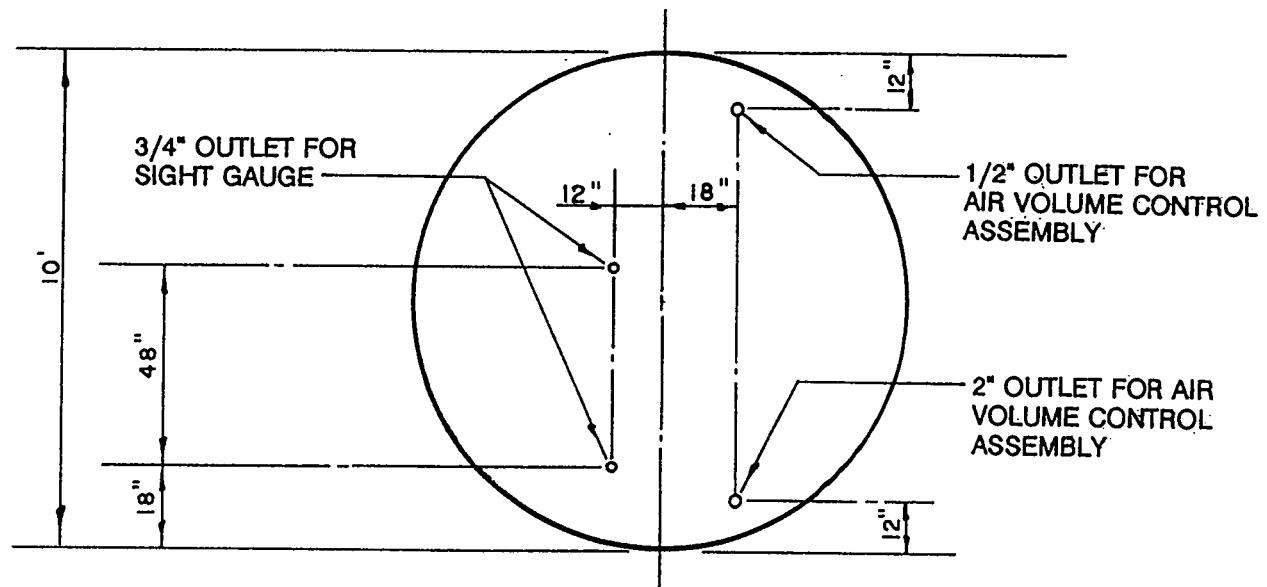
REVISION DATE

CITY OF CHOWCHILLA

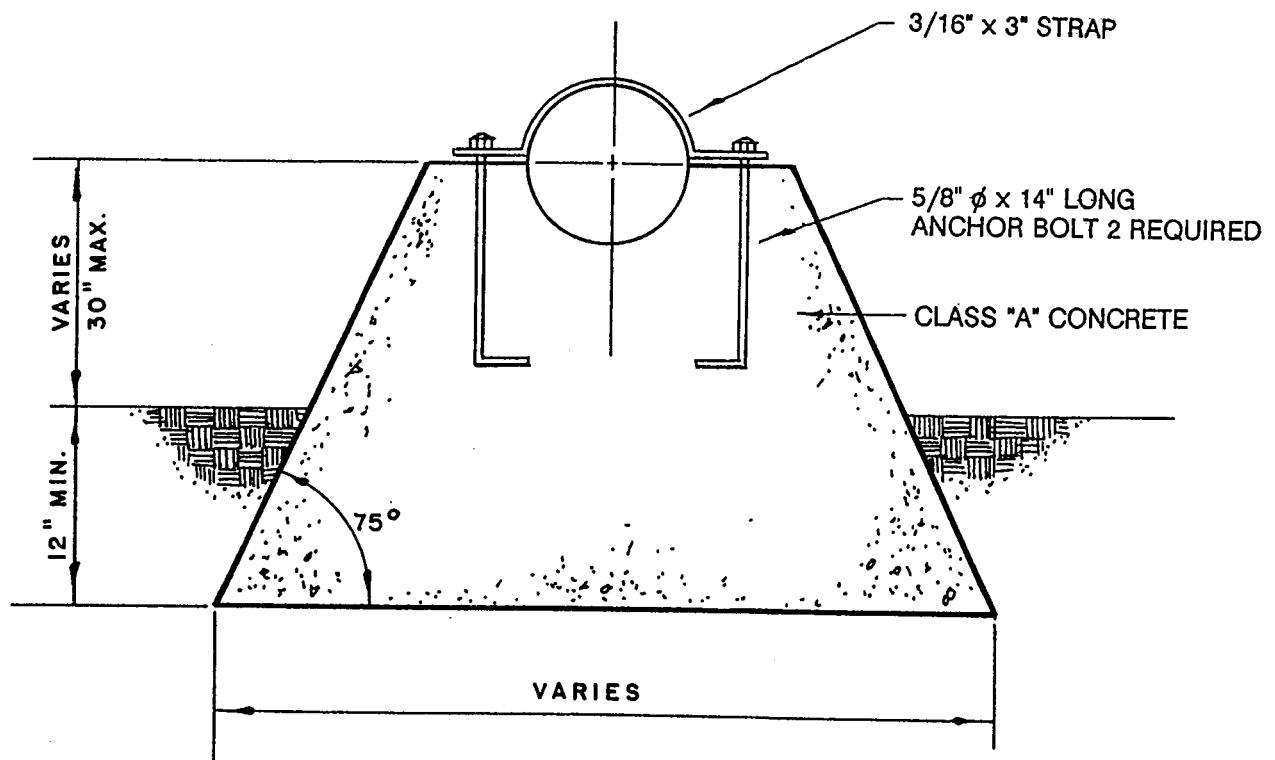
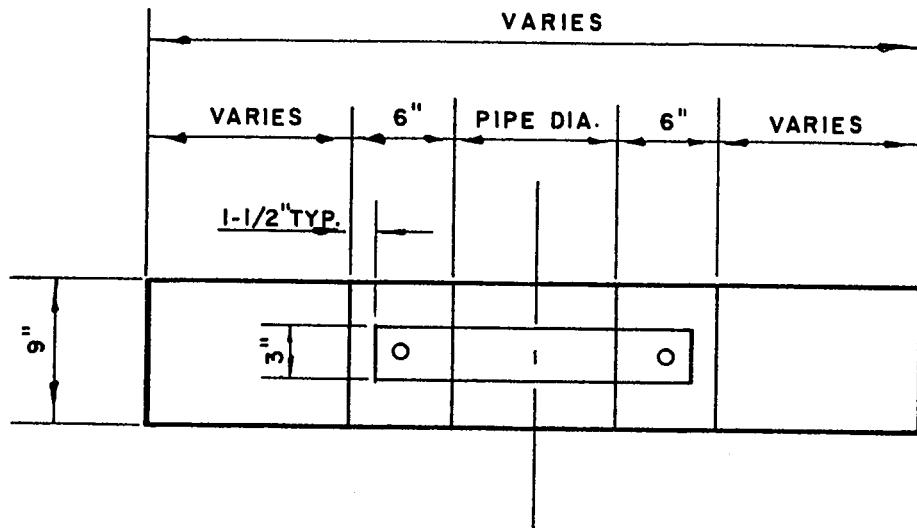
Std. Dwg.

**HYDRO-TANK
SIDE ELEVATION DETAIL**

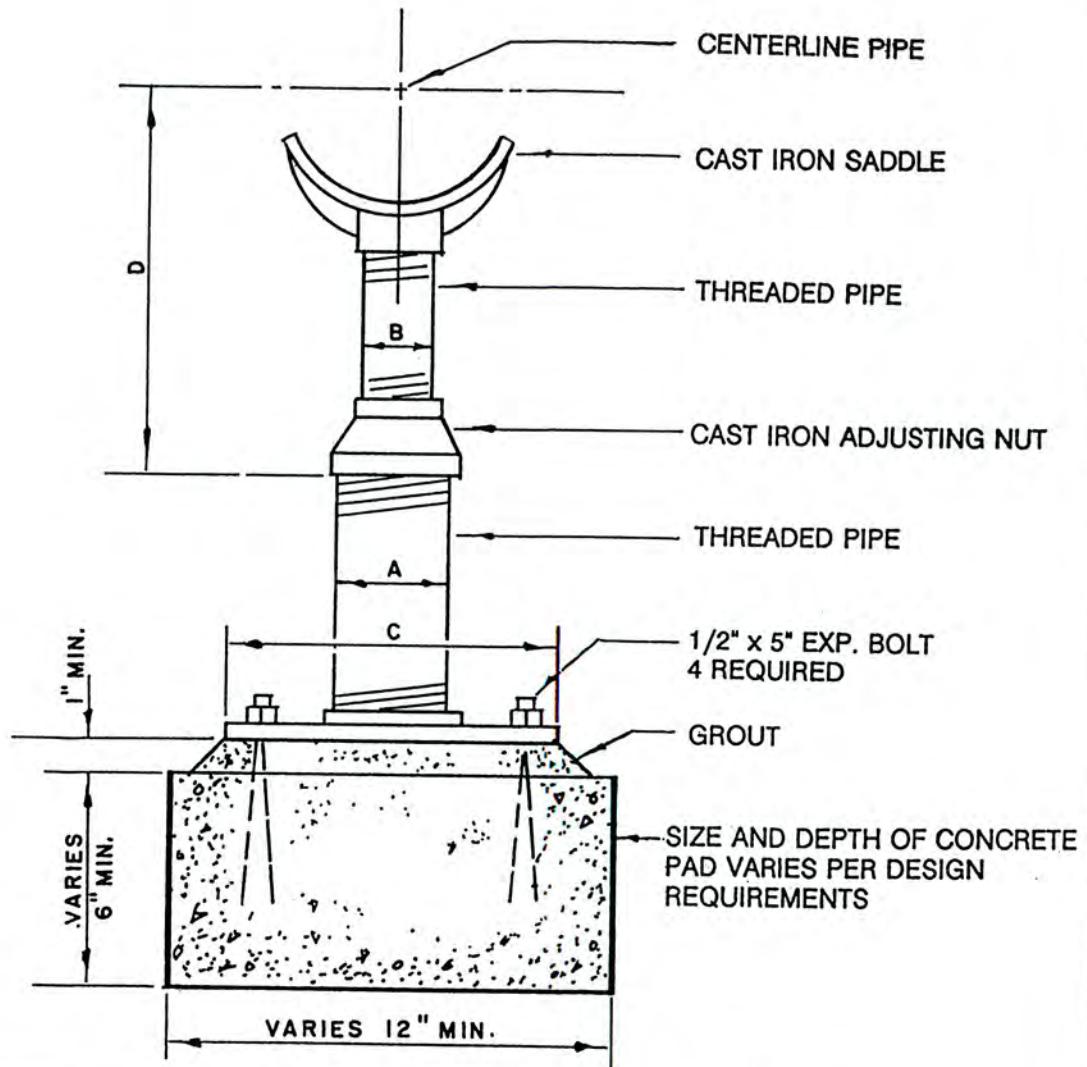
W-10



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	HYDRO-TANK END DETAIL	W-11



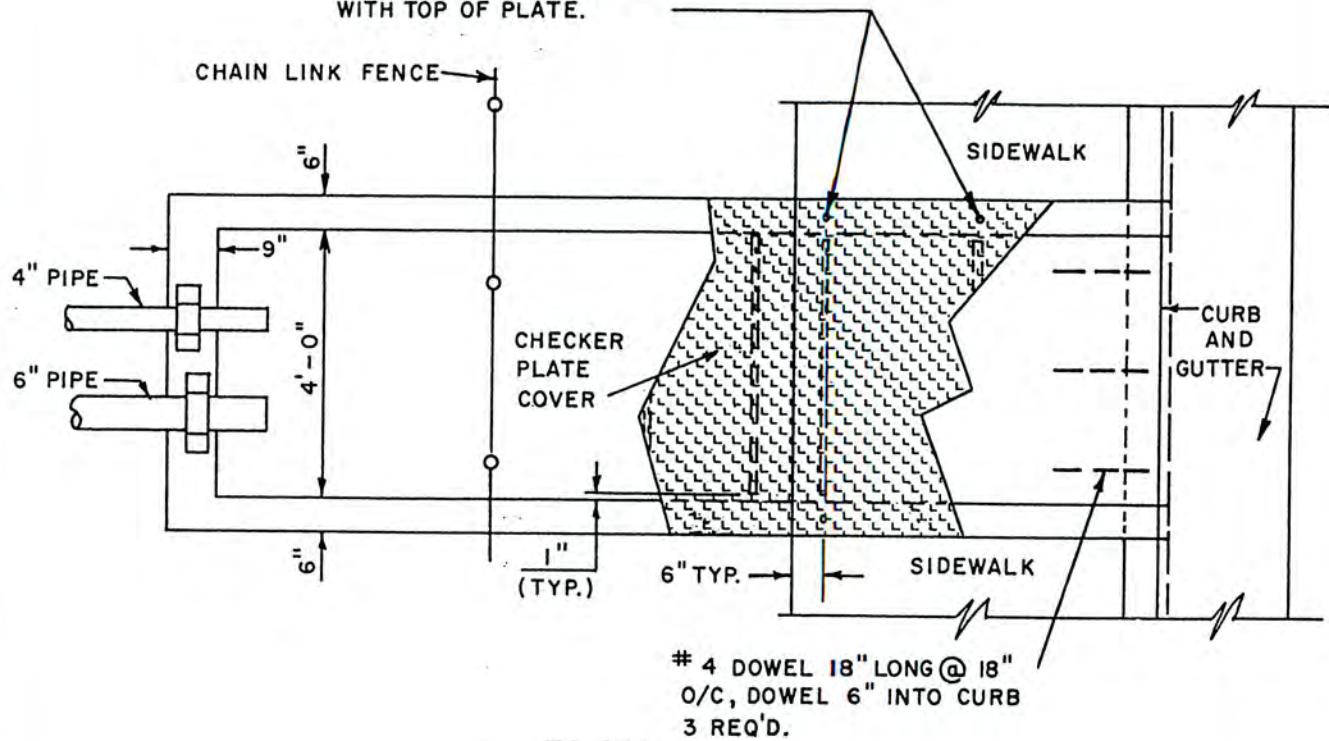
REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CONCRETE PIPE SUPPORT DETAIL	W-12



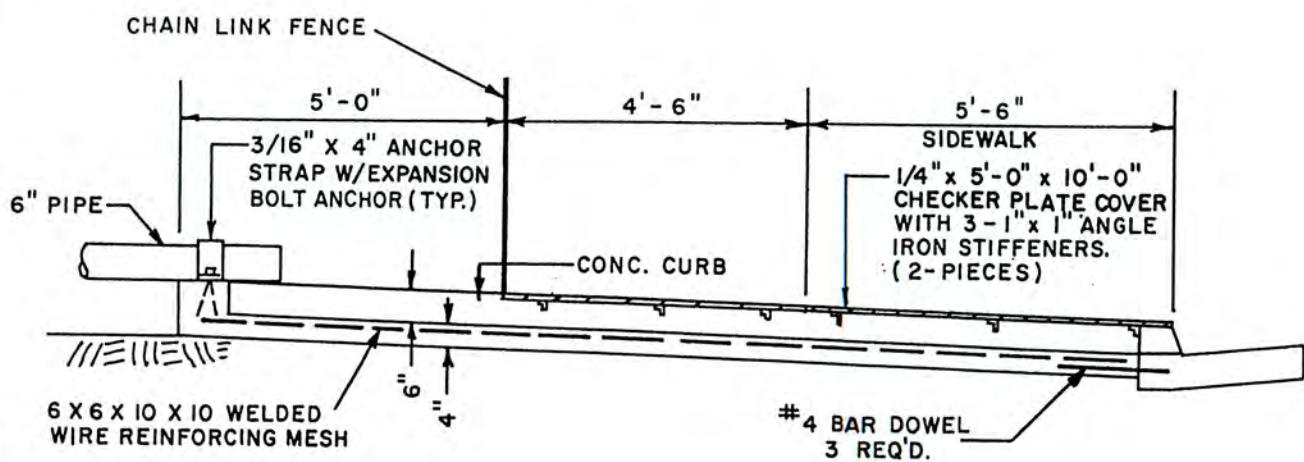
PIPE SIZE	A	B	C	DIMENSIONS (INCHES)	
				MIN.	MAX.
2-1/2	2-1/2	1-1/2	9	8	13
3	2-1/2	1-1/2	9	8-1/4	13-1/4
4	3	2-1/2	9	9-1/4	13-1/4
6	3	2-1/2	9	10-1/2	15-1/4
8	3	2-1/2	9	11-3/4	16-1/2
10	3	2-1/2	9	13-1/2	18-1/4
12	3	2-1/2	9	15	19-3/4
16	4	3	11	12-3/4	22-1/4

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
	PIPE SUPPORT DETAIL		W-13

1/4" ϕ x 3" BOLT @ 20" O/C WITH
COUNTER SUNK HEAD TO BE FLUSH
WITH TOP OF PLATE.

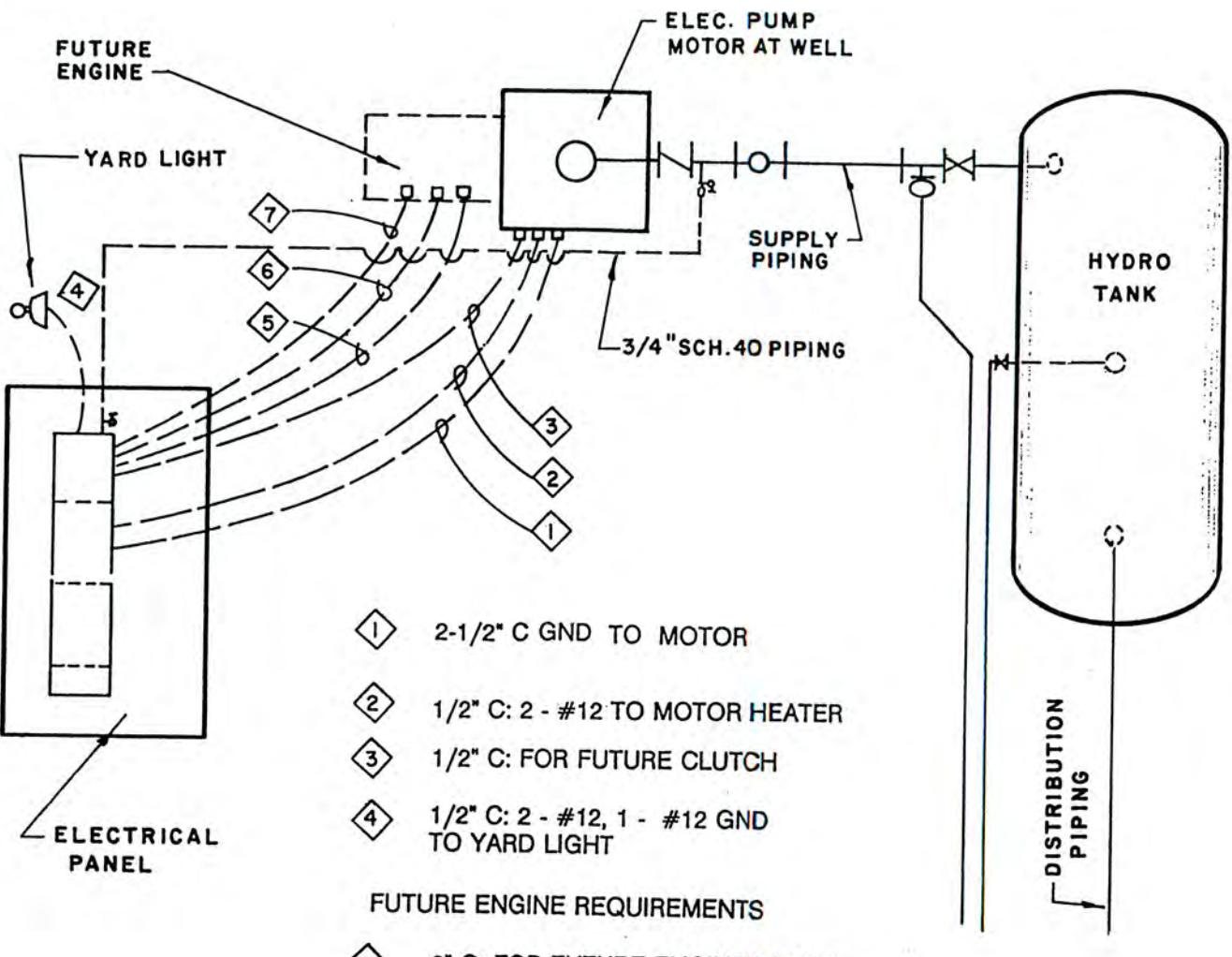


PLAN



SECTION

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CONCRETE BLOW-OFF CHANNEL	
		W-14



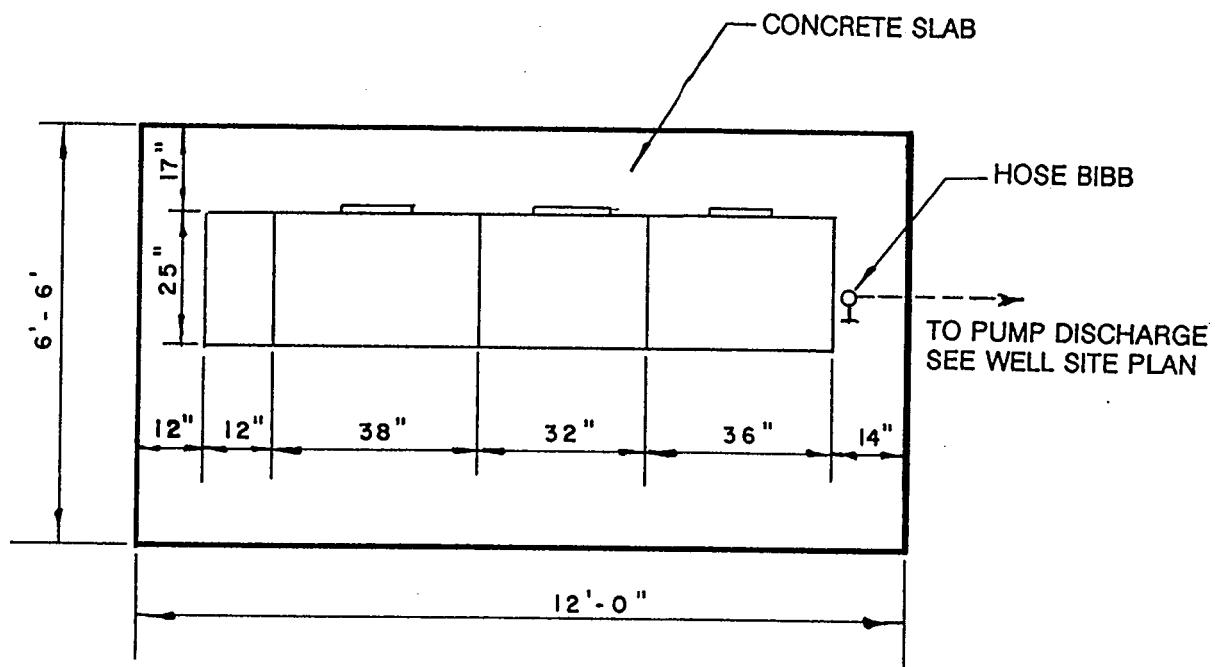
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

WELL SITE ELECTRICAL PLAN

W-15



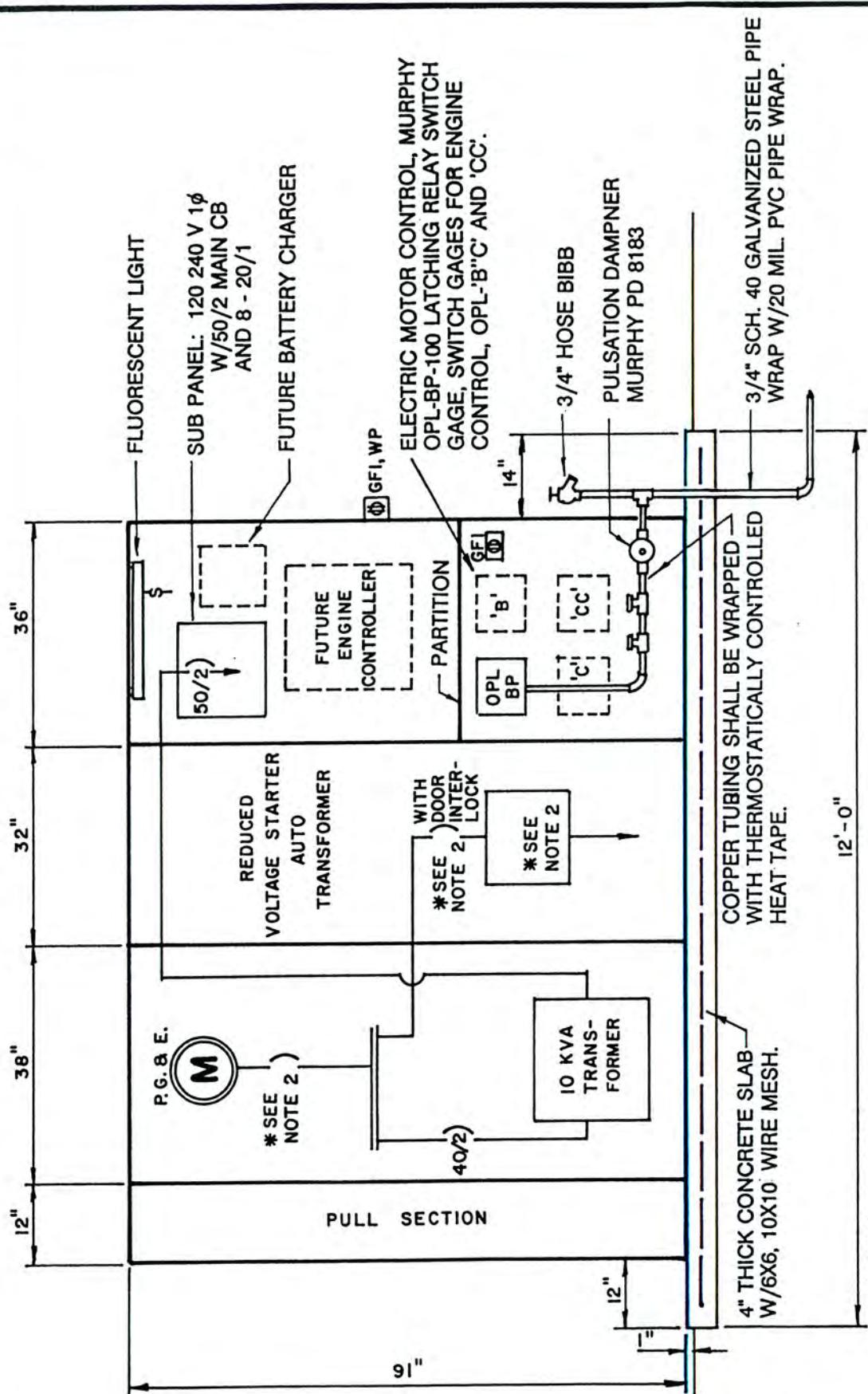
REVISION DATE

CITY OF CHOWCHILLA

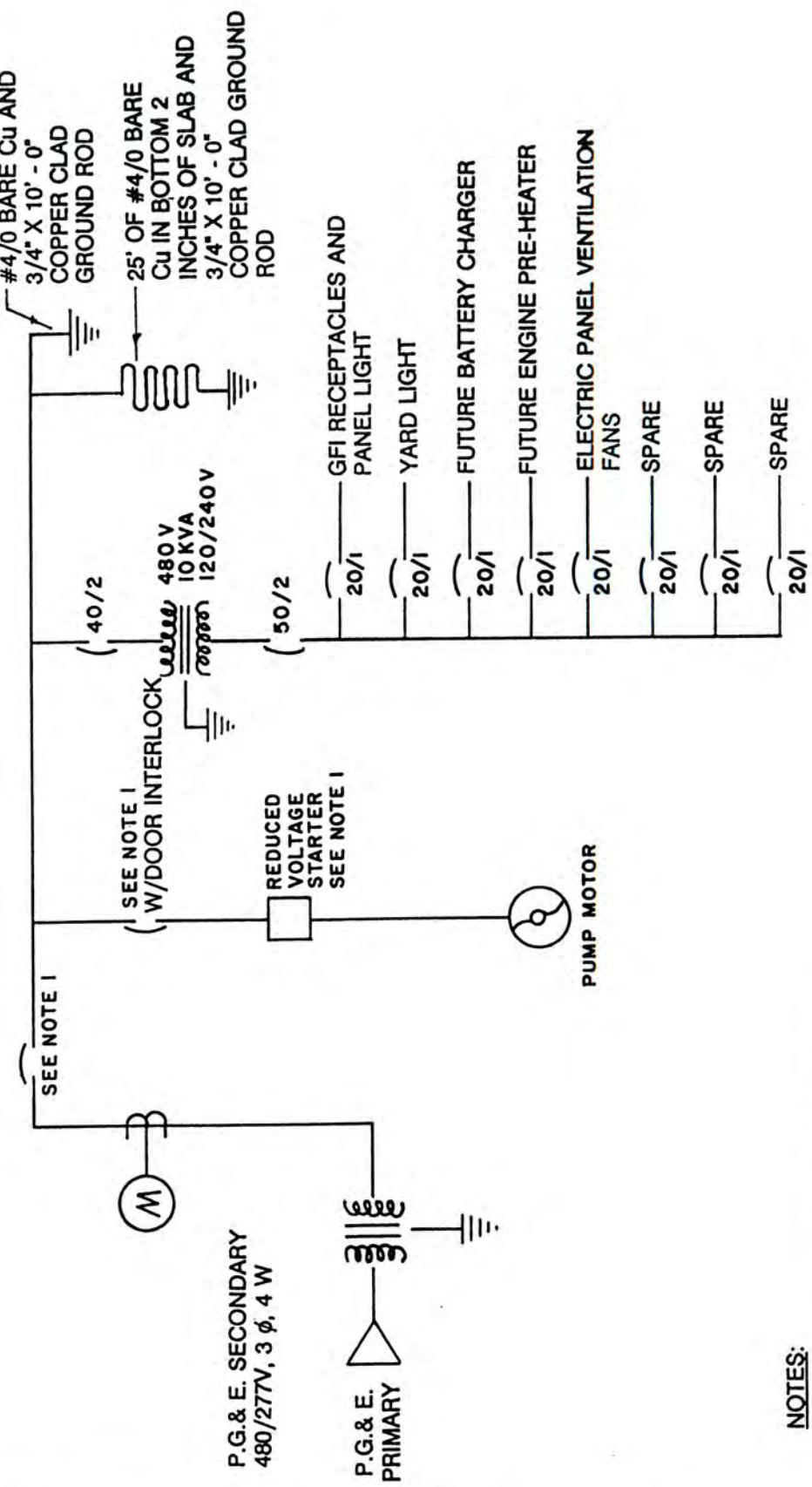
Std. Dwg.

ELECTRICAL PANEL PLAN

W-16



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	ELECTRICAL PANEL ELEVATION DETAIL	W-17



NOTES:

1. CIRCUIT BREAKERS, WIRE SIZE AND
STARTER SIZE TO BE DETERMINED
BY PUMP MOTOR HORESPOWER AND
APPROVED BY CITY ENGINEER.

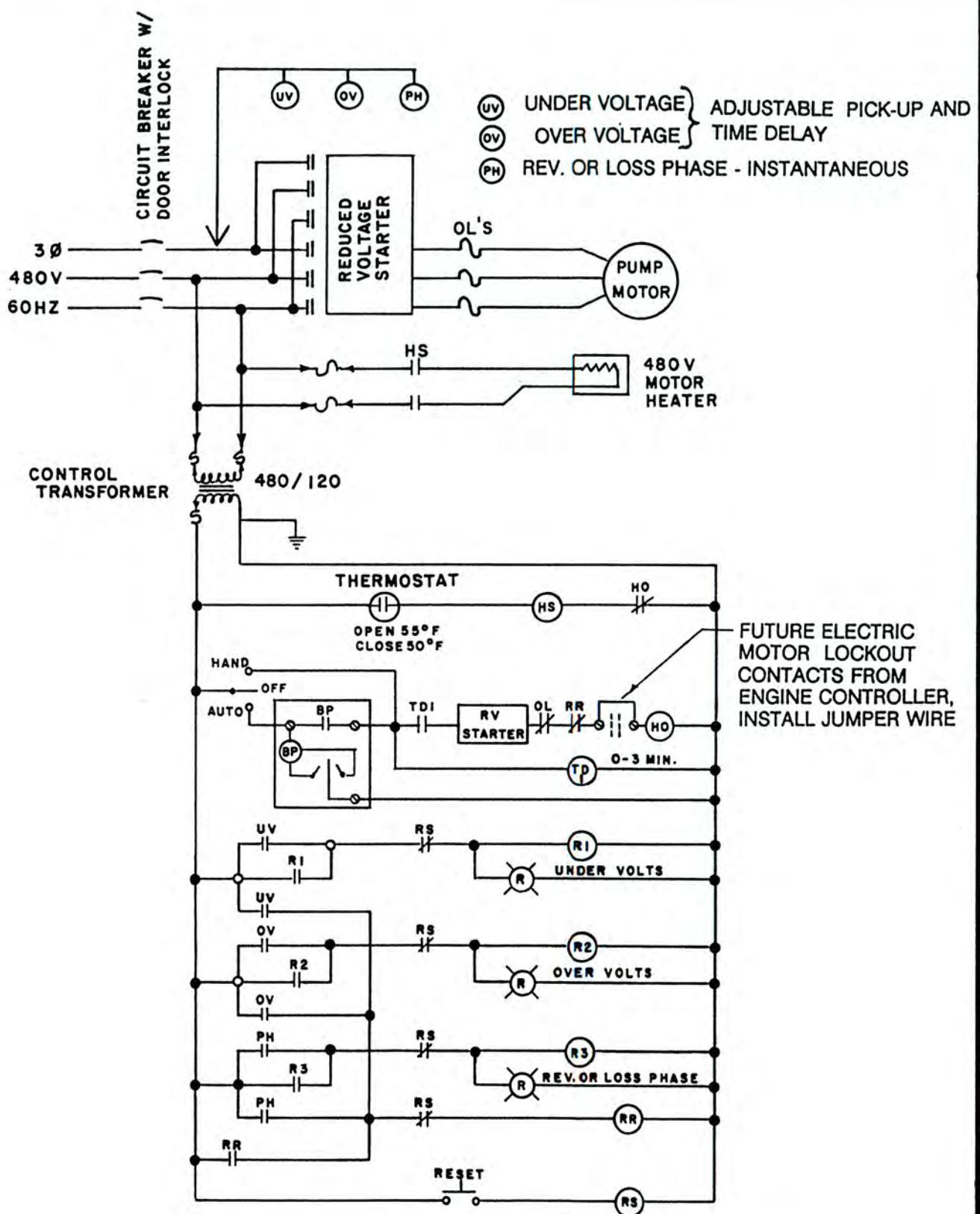
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

SINGLE LINE DIAGRAM

W-18



REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

MOTOR CONTROL DIAGRAM

W-19

INSTALL (1) 70 WATT HIGH PRESSURE SODIUM VAPOR LIGHT W/PHOTO CELL AND VANDEL RESISTANT POLY-CARBONTE REFRACTOR

3" ϕ X 15' - 0" LONG STEEL POLE

1/2" ϕ X 12" LONG ANCHOR BOLTS,
4 REQUIRED

8" SQUARE X 1/2" THICK,
STEEL POLE BASE, WELD
ALL AROUND TO 3" ϕ
STEEL PIPE POLE

4 - #4 BARS VERTICAL
WITH 3 - #3 BAR TIES

ELECTRICAL CONDUIT

CONCRETE FOOTING

DETAIL

N. T. S.

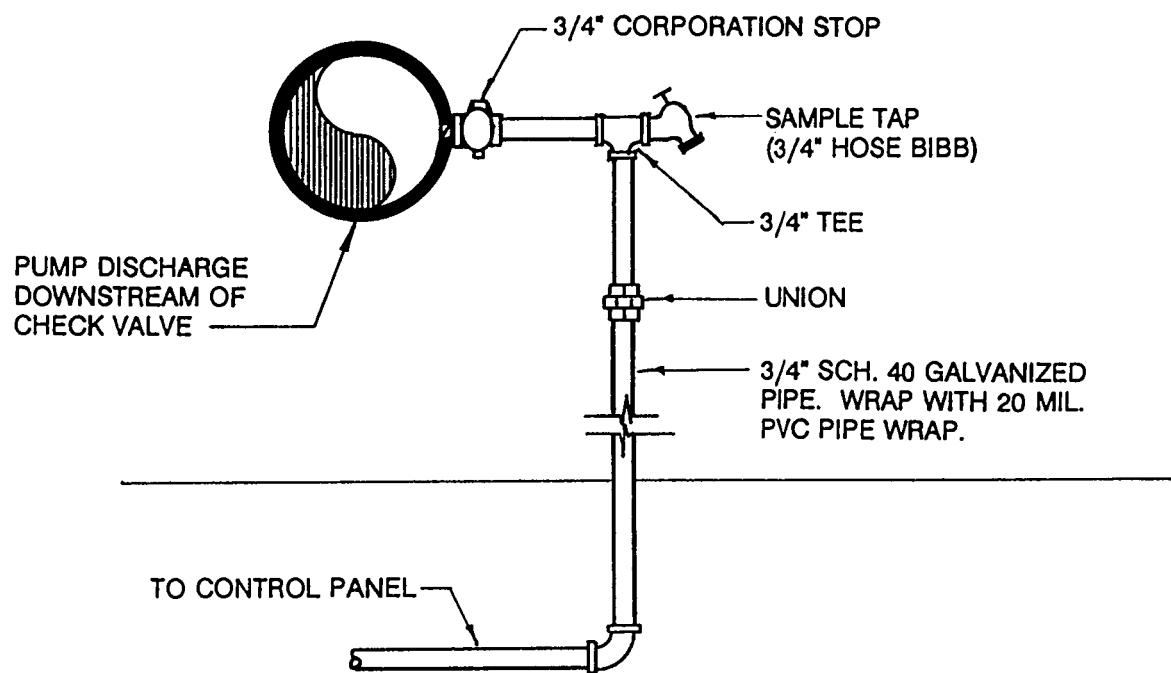
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

YARD LIGHT

W-20



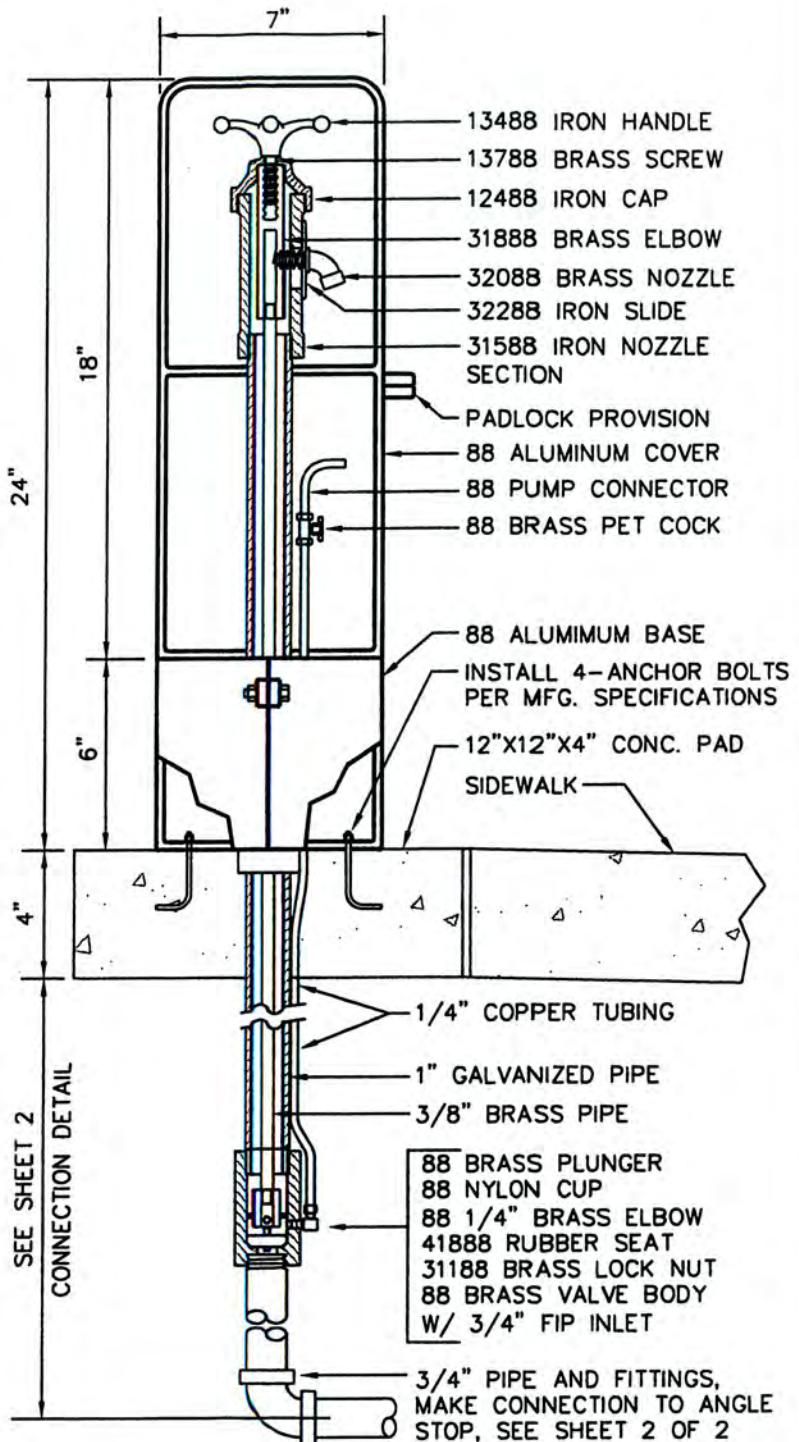
REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
	3/4" SAMPLE TAP DETAIL		W-21

STANDARD SPECIFICATIONS:

SAMPLING STATIONS SHALL HAVE A MINIMUM. 3/4" FIP INLET, AND A 3/4" HOSE OR UNTHEADED NOZZLE. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE, ALUMINUM-CAST HOUSING. WHEN OPENED THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL-BRASS WATERWAY. ALL WORKING PARTS WILL ALSO BE BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. A COPPER VENT TUBE WILL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIAL GROWTH. THE EXTERIOR PIPING WILL BE GALVANIZED, AS MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS, MO. 63102.

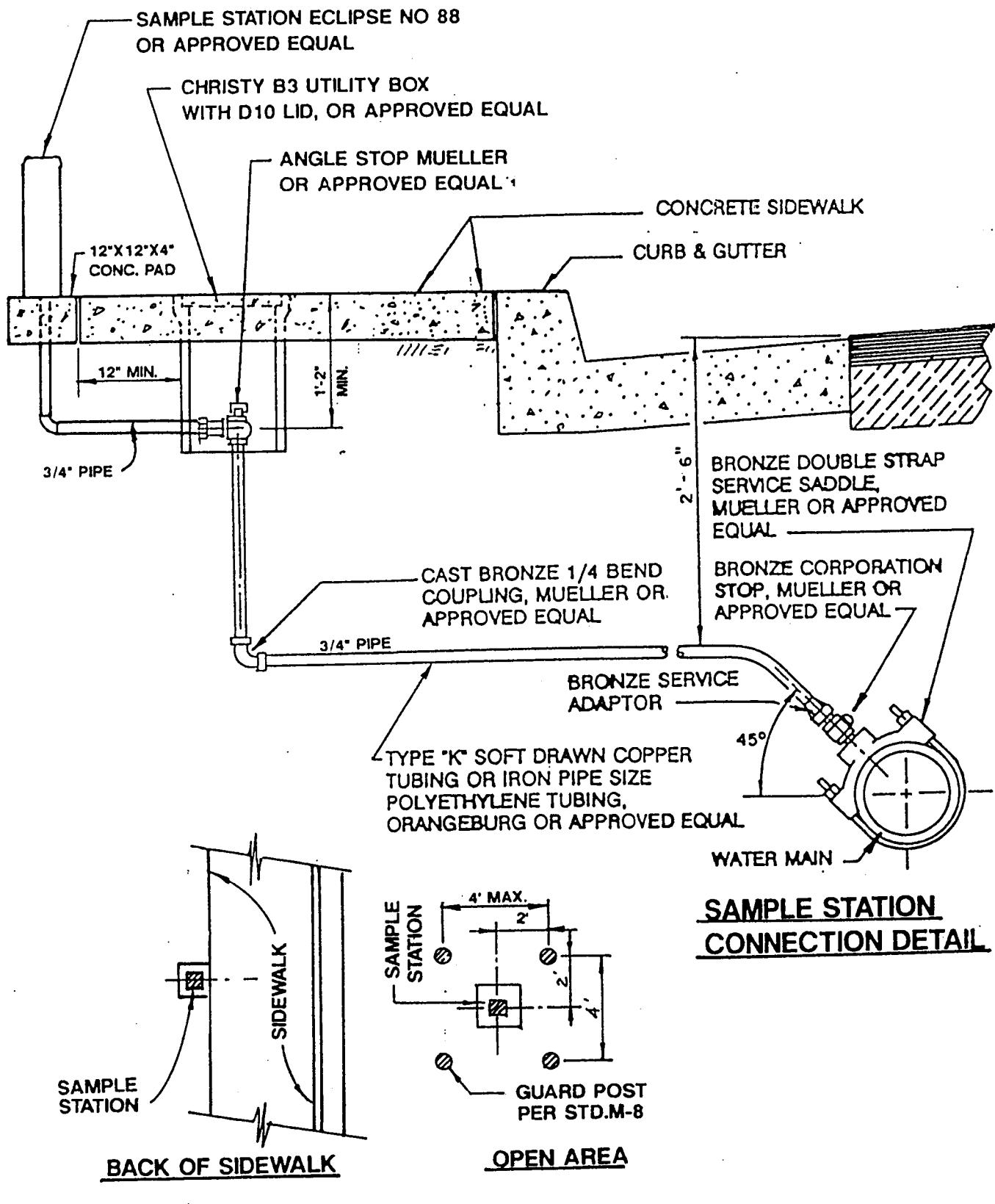
NOTES:

1. LOCATION OF WATER SAMPLE STATIONS SHALL BE DETERMINED BY THE SUPERINTENDENT OF PUBLIC WORKS AND APPROVED BY THE CITY ENGINEER.
2. WATER SAMPLE STATIONS SHALL BE LOCATED WITHIN EACH WELL SUPPLY AND DISTRIBUTION AREA TO PROVIDE THE MINIMUM NUMBER OF SAMPLES REQUIRED BY THE STATE HEALTH DEPARTMENT.

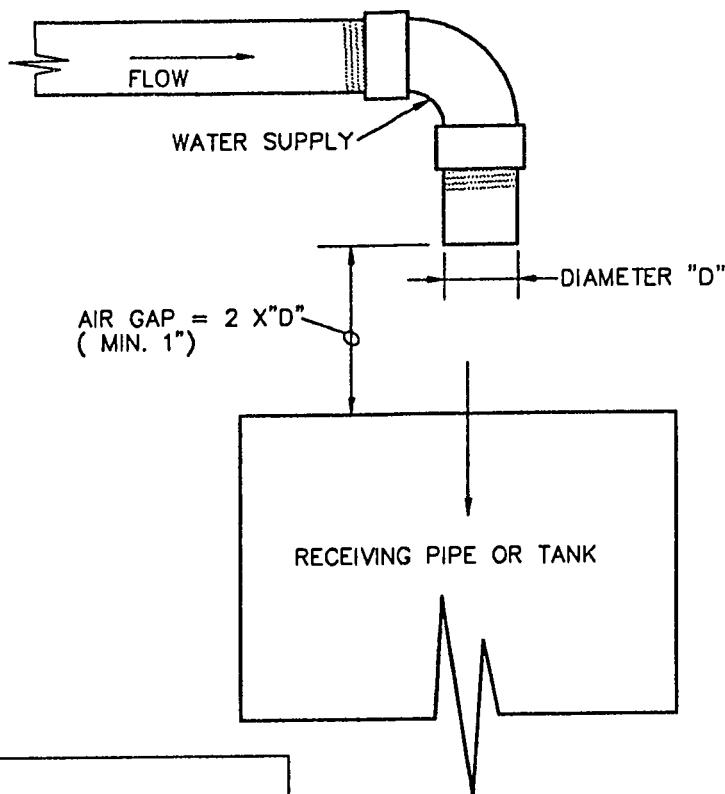


ECLIPSE NO. 88
SAMPLING STATION

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	3/4" WATER SAMPLE STATION	W-22
		1 OF 2



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	3/4" WATER SAMPLE STATION	
		W-22
		2 OF 2



EXAMPLE

PIPE DIAMETER: 3"
AIR GAP: 2 X 3-INCHES = 6-INCHES

SPECIFICATIONS

THIS BACKFLOW PREVENTER MUST CONFORM TO THE MOST RECENT SPECIFICATIONS OF THE STATE OF CALIFORNIA APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR SERVICE ISOLATION

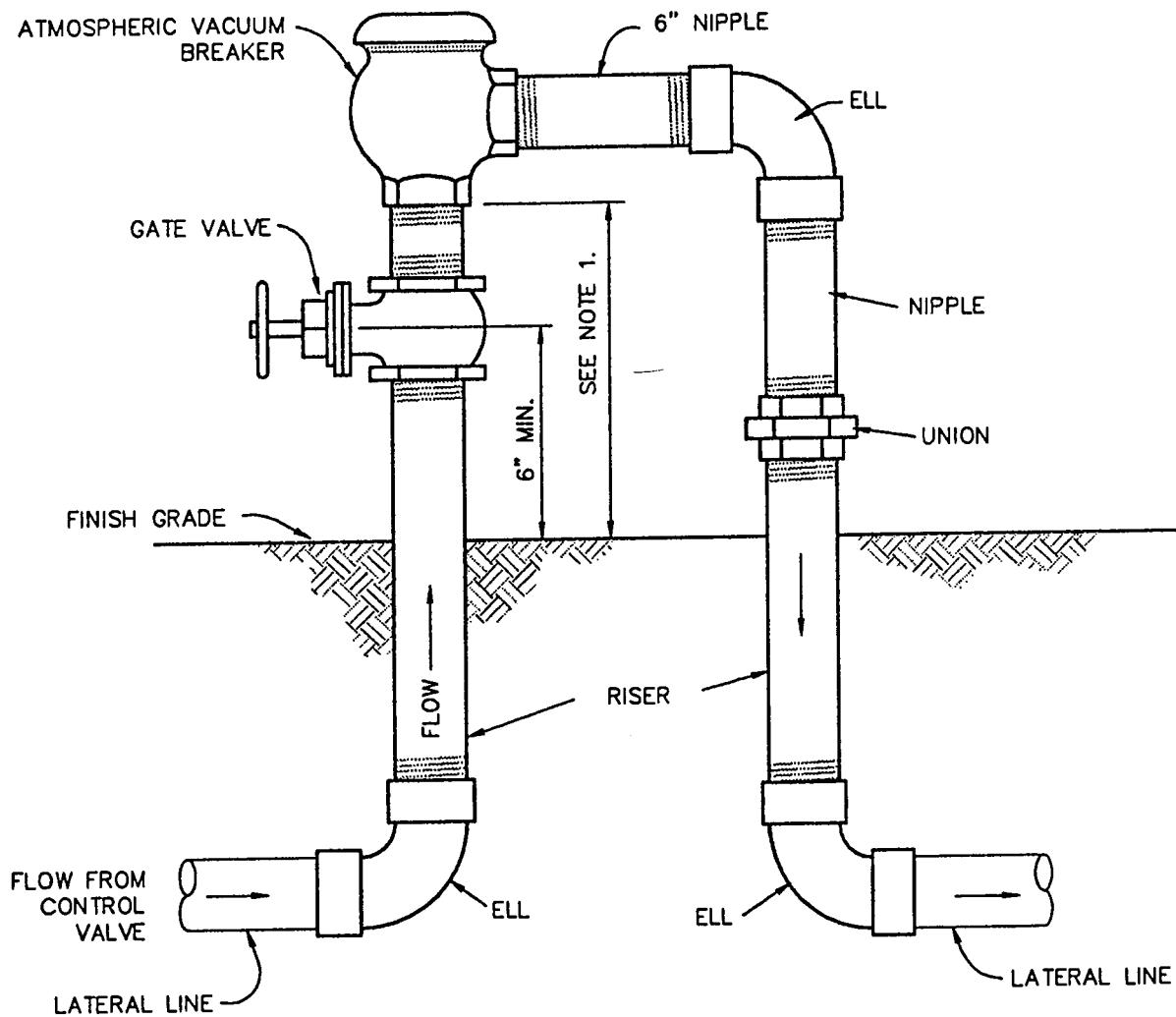
NOTES:

1. DEVICES AND INSTALLATION SHALL MEET MADERA COUNTY DEPARTMENT OF HEALTH AND CHOWCHILLA DEPARTMENT OF PUBLIC WORKS REGULATIONS AND REQUIREMENTS.
2. CLOSE NIPPLES SHALL NOT BE USED.
3. APPROVED PLASTIC TAPE (1/2") WIDE SHALL BE USED ON ALL THREADED CONNECTIONS.
4. ALL PIPE SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE UNLESS OTHERWISE SPECIFIED.
5. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
6. ALL VALVES SHALL BE PROVIDED WITH RESILIENT SEATS.

REVISION DATE	CITY OF CHOWCHILLA		STD. DWG.
2-14-00	ADOPTED	AIR GAP DETAIL	W-23

SPECIFICATIONS

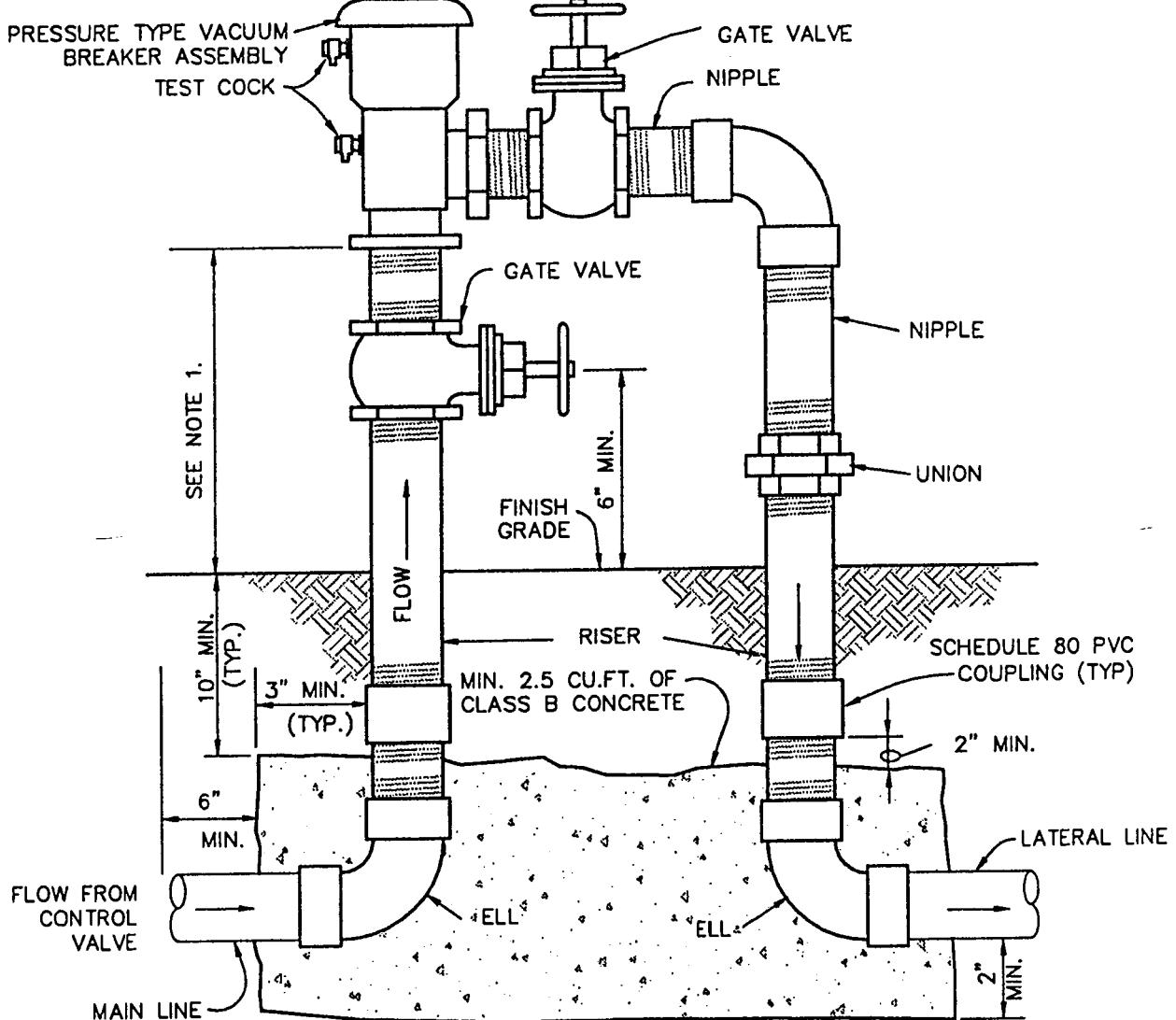
THIS BACKFLOW PREVENTER MUST CONFORM TO THE MOST RECENT SPECIFICATIONS OF THE STATE OF CALIFORNIA APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR SERVICE ISOLATION.



ATMOSPHERIC TYPE 2" AND SMALLER

1. ATMOSPHERIC TYPE VACUUM BREAKERS SHALL BE INSTALLED A MINIMUM OF 6" ABOVE THE HIGHEST OUTLET OR FLOOD LINE, WHICHEVER IS HIGHER AND ON THE DOWNSTREAM SIDE OF VALVE ONLY.
2. DEVICES AND INSTALLATION SHALL MEET MADERA COUNTY DEPARTMENT OF HEALTH AND CHOWCHILLA DEPARTMENT OF PUBLIC WORKS REGULATIONS AND REQUIREMENTS.
3. CLOSE NIPPLES SHALL NOT BE USED.
4. APPROVED PLASTIC TAPE (1/2") WIDE SHALL BE USED ON ALL THREADED CONNECTIONS.
5. ALL PIPE SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE UNLESS OTHERWISE SPECIFIED.
6. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
7. ALL VALVES SHALL BE PROVIDED WITH RESILIENT SEATS.

REVISION DATE	CITY OF CHOWCHILLA		STD. DWG.
2-14-00	ADOPTED	VACUUM BREAKER ASSEMBLY	W-24
			1 OF 2



SPECIFICATIONS

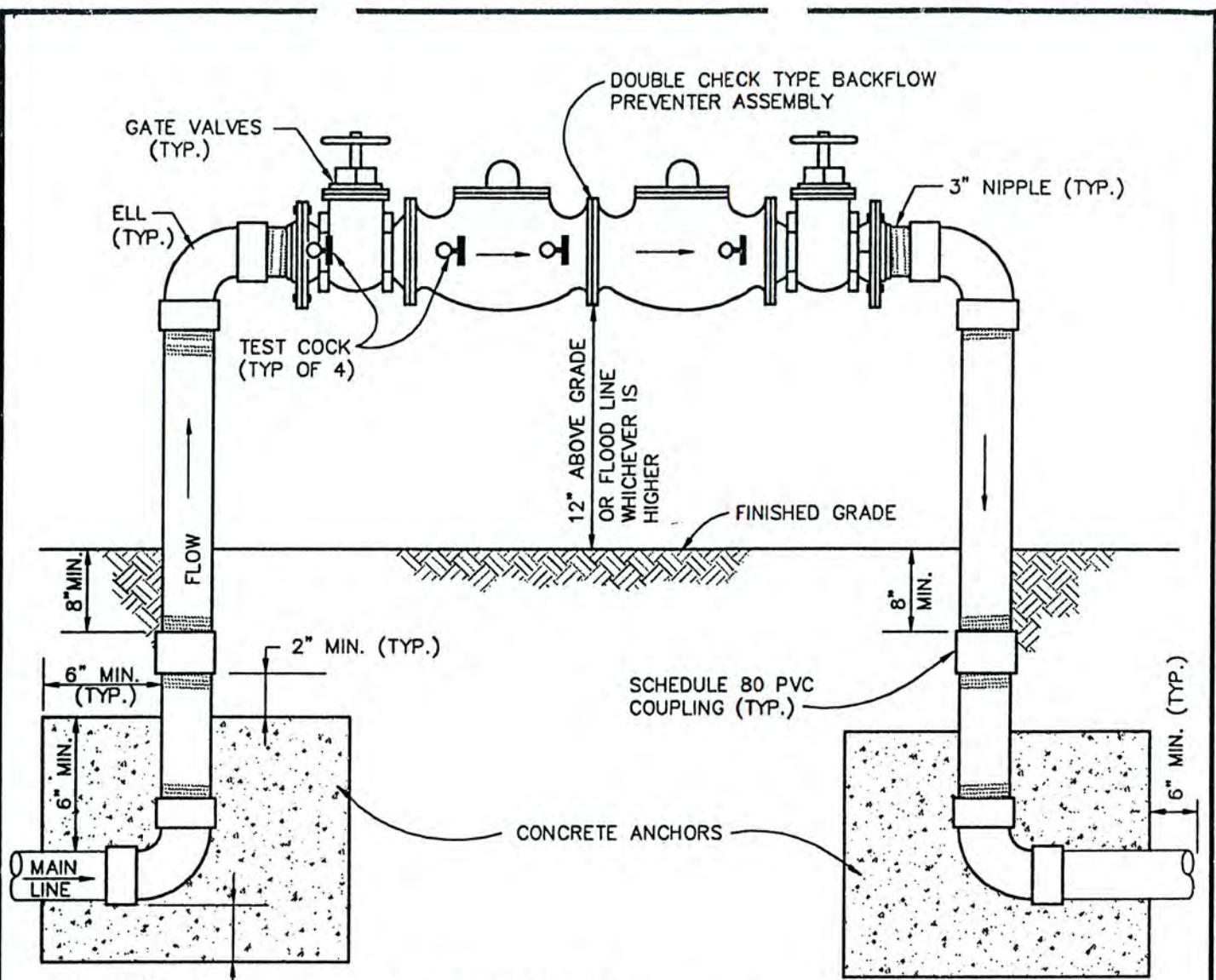
PRESSURE TYPE 2" AND SMALLER

THIS BACKFLOW PREVENTER MUST CONFORM TO THE MOST RECENT SPECIFICATIONS OF THE STATE OF CALIFORNIA APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR SERVICE ISOLATION.

NOTES:

1. PRESSURE TYPE VACUUM BREAKERS SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE HIGHEST OUTLET OR FLOOR LINE, WHICHEVER IS HIGHER.
2. PRESSURE TYPE VACUUM BREAKERS SHALL NOT BE SUBJECT TO BACK PRESSURE OR DRAINAGE.
3. DEVICES AND INSTALLATION SHALL MEET MADERA COUNTY DEPARTMENT OF HEALTH AND CHOWCHILLA DEPARTMENT OF PUBLIC WORKS REGULATIONS AND REQUIREMENTS.
4. CLOSE NIPPLES SHALL NOT BE USED.
5. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
6. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.
7. ALL PIPE SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE UNLESS OTHERWISE SPECIFIED.
8. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
9. ALL VALVES SHALL BE PROVIDED WITH RESILIENT SEATS.

REVISION DATE	CITY OF CHOWCHILLA		STD. DWG.
2-14-00	ADOPTED	VACUUM BREAKER ASSEMBLY	W-24
			2 OF 2



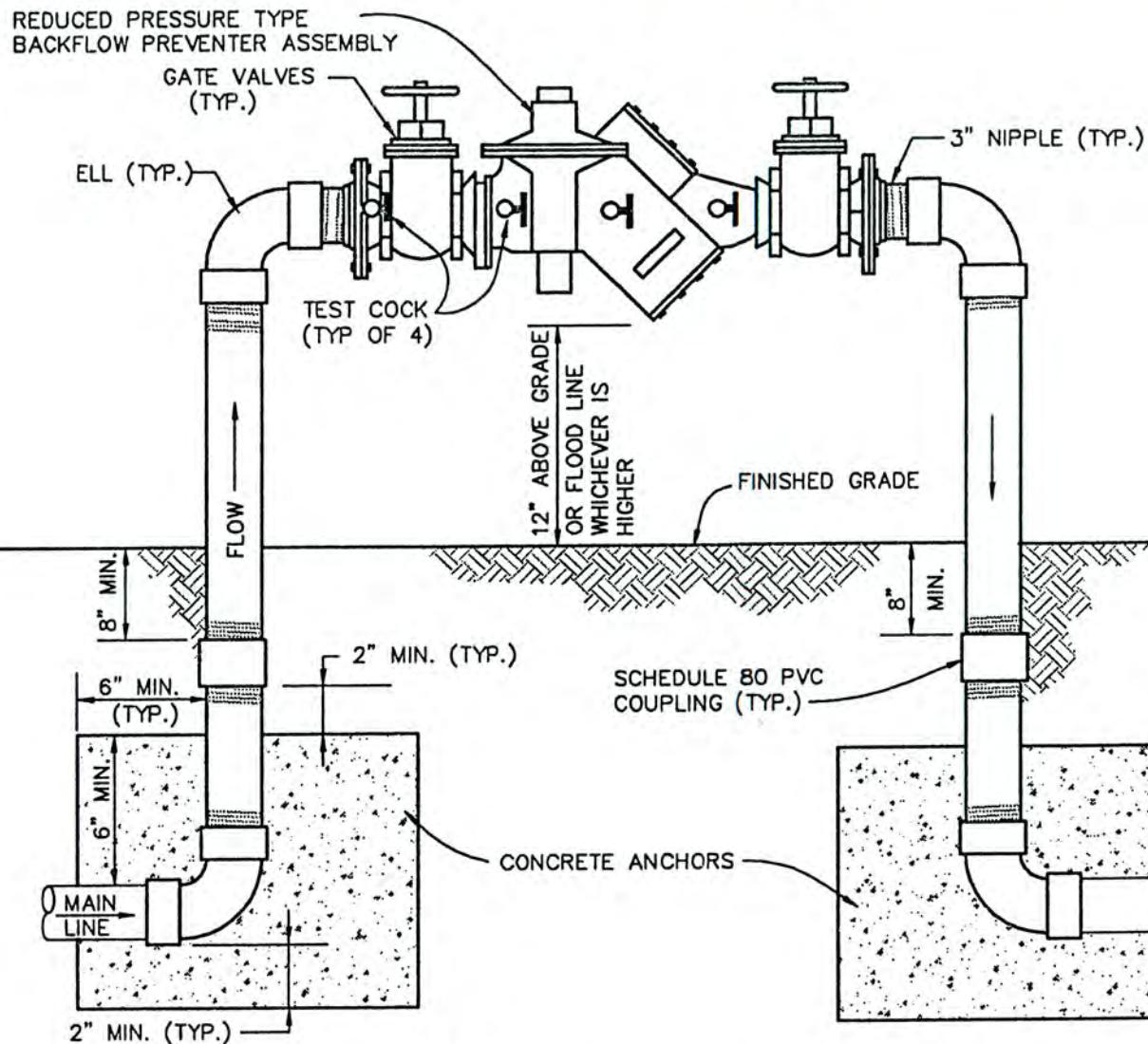
SPECIFICATION

THIS BACKFLOW PREVENTER MUST CONFORM TO THE STATE OF CALIFORNIA APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR SERVICE ISOLATION.

NOTES:

1. ALL PIPE FITTINGS SHALL BE SCHEDULE 40 GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED.
2. CONCRETE SHALL BE CLASS B.
3. THE BACKFLOW PREVENTER DEVICES AND INSTALLATIONS SHALL BE APPROVED BY THE MADERA COUNTY DEPARTMENT OF HEALTH SERVICES AND CHOWCHILLA DEPARTMENT OF PUBLIC WORKS.
4. VALVE ASSEMBLIES MAY HAVE SCREWED FITTINGS OR FLANGED, ALL VALVES SHALL BE PROVIDED WITH RESILIENT SEATS.
5. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
6. APPROVED PLASTIC TAPE, 1/2" WIDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
7. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
8. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
2-14-00	ADOPTED		
		BACKFLOW PREVENTER ASSEMBLY (DOUBLE CHECK VALVE)	
			W-25



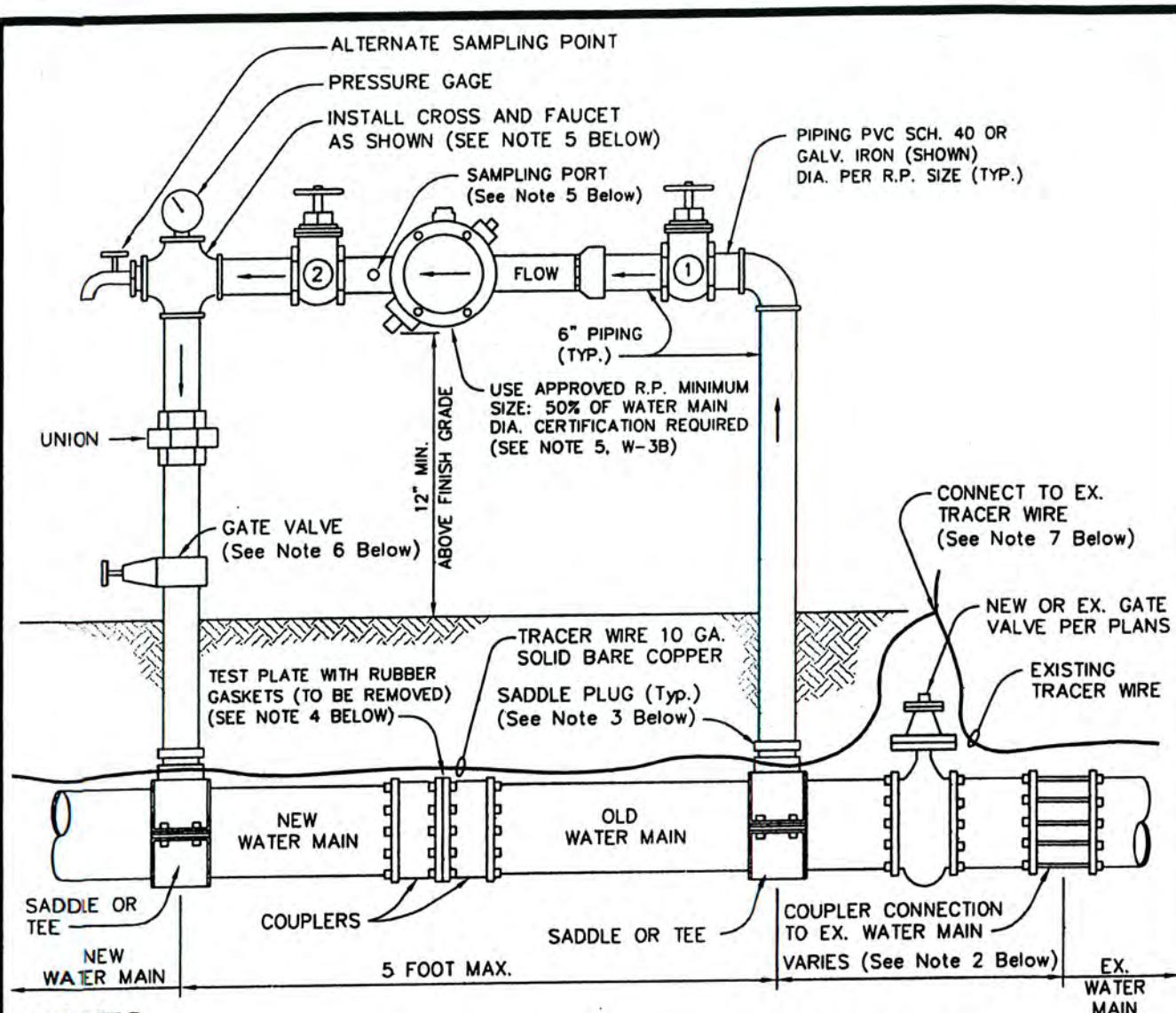
SPECIFICATIONS

THIS BACKFLOW PREVENTER MUST CONFORM TO THE MOST RECENT SPECIFICATIONS OF THE STATE OF CALIFORNIA APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR SERVICE ISOLATION.

NOTES:

1. ALL PIPE FITTINGS SHALL BE SCHEDULE 40 GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED.
2. CONCRETE SHALL BE CLASS B
3. THE BACKFLOW PREVENTER DEVICES AND INSTALLATIONS SHALL BE APPROVED BY THE MADERA COUNTY DEPARTMENT OF HEALTH SERVICES AND CHOWCHILLA DEPARTMENT OF PUBLIC WORKS.
4. VALVE ASSEMBLIES MAY HAVE SCREWED OR FLANGED FITTINGS, ALL VALVES SHALL BE PROVIDED WITH RESILIENT SEATS.
5. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
6. APPROVED PLASTIC TAPE, 1/2" WDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
7. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
8. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
2-14-00	ADOPTED	BACKFLOW PREVENTER ASSEMBLY (REDUCED PRESSURE TYPE)	W-26



NOTES:

1. WATER MAIN CONNECTION AND REDUCED PRESSURE PRINCIPAL (R.P.) BACK FLOW PREVENTION ASSEMBLY AS SHOWN ABOVE SHALL BE UTILIZED FOR CONNECTION TO THE EXISTING MAIN AS SHOWN ON PLANS.
2. DISTANCE VARIES PER INSTALLATION, DISTANCE REQUIRES CITY ENGINEER'S PRIOR APPROVAL. ALL PIPING BETWEEN EXISTING WATER MAIN SHALL BE SWABBED PER NOTE #3, SHT. 2 OF 3, W-27.
3. INSTALL SADDLE PLUGS WITH TEFLON TAPE WHEN R.P. ASSEMBLY IS REMOVED AND NEW WATER MAIN HAS PASSED THE BACTERIA TEST.
4. REMOVE TEST PLATE AFTER NEW WATER MAIN HAS PASSED THE BACTERIA TEST. BOLT COUPLERS TOGETHER USING ONLY ONE RUBBER GASKET BETWEEN FLANGES, AND PROCEED PER NOTE #13, SHT. 3 OF 3, W-27.
5. SAMPLING PORT TO BE USED ON R.P. SHALL BE DOWN STREAM SIDE OF R.P. OR SHALL BE ALTERNATE SAMPLING POINT AS SHOWN.
6. MAY BE DELETED WITH ENGINEERING DIVISION APPROVAL IF NEW WATER MAIN IS COMPLETELY INSTALLED.
7. SPlicing OF FINDER WIRE SHALL BE ACCOMPLISHED BY WRAPPING THE BARE ENDS OF THE WIRE TOGETHER, SOLDERING THE CONNECTION, AND WRAPPING THE SOLDERED CONNECTION WITH ELECTRICAL TAPE.

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
11-13-07			W-27
			SHT. 1 OF 3

Water Main Installation and Connection Procedure

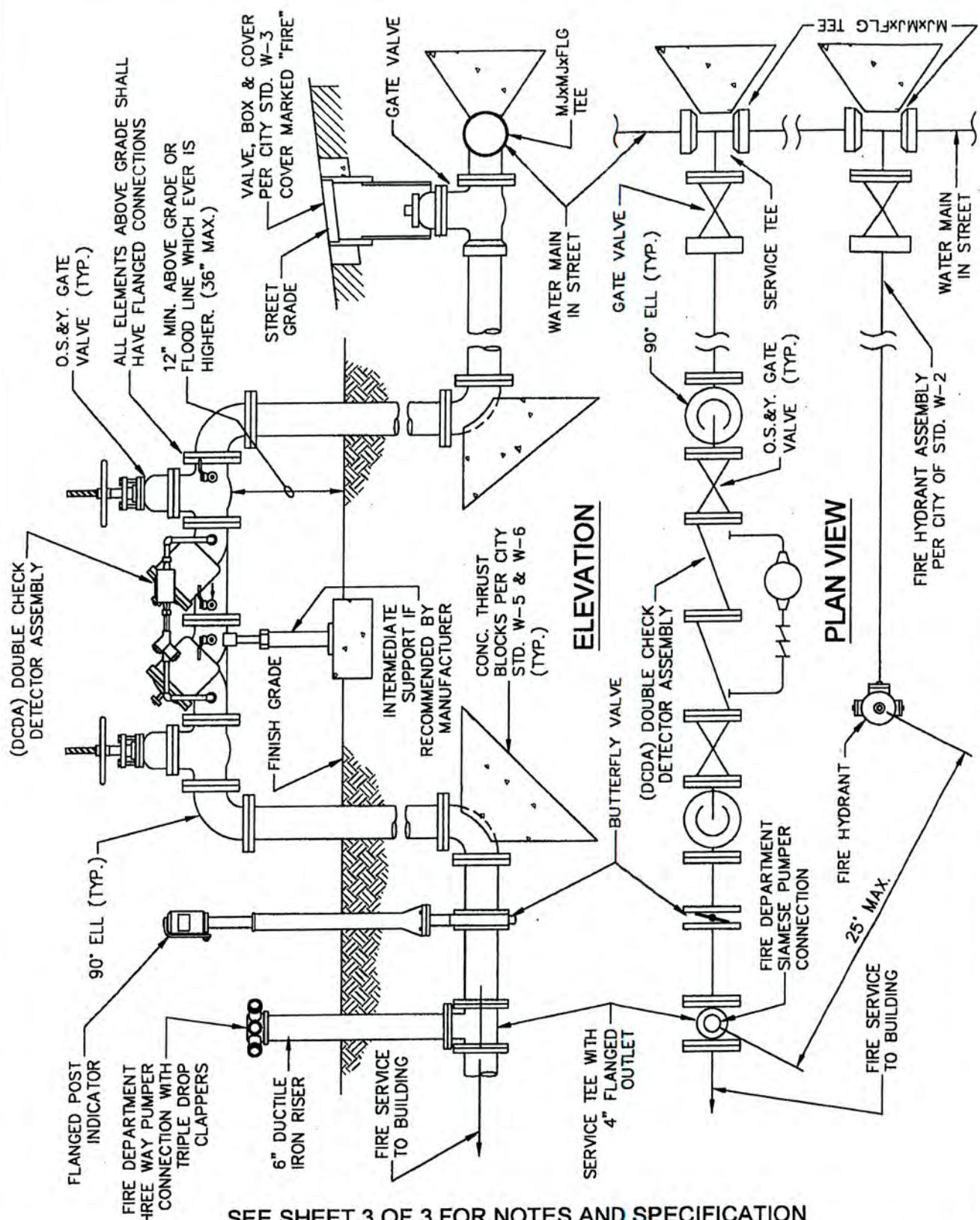
1. CONTRACTOR SHALL SECURE THE END OF ALL WATER MAIN PIPES BEING INSTALLED IN TRENCH EACH AND EVERY TIME THE WORK SITE IS LEFT UNATTENDED, i.e. LUNCH BREAKS, OVERNIGHT, ETC. ONLY WATER TIGHT PLUGS WILL BE ALLOWED.
2. ALL CHLORINATION DISINFECTION PROCEDURES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.W.A. STANDARD, C-651, FOR DISINFECTING WATER MAINS.
3. ALL CONNECTIONS TO EXISTING CITY WATER MAINS, WHERE FEASIBLE, SHALL BE HOT TAP FITTINGS. GATE VALVE, TEMPORARY PLUMBING AND R.P. VALVE SHALL BE DISINFECTED BY SWABBING WITH 1% HYPOCHLORITE SOLUTION TO THE SATISFACTION OF THE CITY INSPECTOR PRIOR TO INSTALLATION. WHERE HOT TAP IS NOT POSSIBLE AS DETERMINED BY THE CITY INSPECTOR, ALL NECESSARY PRECAUTIONS, INCLUDING OVER EXCAVATION AND PUMPING, SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE EXISTING MAIN. CONTRACTOR SHALL NOTIFY ALL AFFECTED WATER CUSTOMERS A MINIMUM OF 48 HOURS PRIOR TO DISRUPTION OF WATER SERVICE.
4. CONTRACTOR SHALL NOTIFY CITY ENGINEERING DIVISION 48 HOURS PRIOR TO COMMENCING INSTALLATION OF WATER MAIN.
5. CONTRACTOR SHALL USE APPROVED REDUCED PRESSURE PRINCIPAL (R.P.) BACKFLOW PREVENTER ASSEMBLY BETWEEN NEW WATER MAIN AND EXISTING CITY WATER MAIN. CITY INSPECTOR SHALL BE PRESENT DURING THE TIME OF CONNECTION. THE R.P. SHALL BE CHECKED, APPROVED BY AN A.W.W.A. CERTIFIED TESTER AND WRITTEN CERTIFICATION SUBMITTED TO THE CITY INSPECTOR AFTER INSTALLATION AND PRIOR TO ANY CONNECTION TO A NEWLY INSTALLED WATER MAIN.
6. CITY INSPECTOR SHALL TEST AFTER 24 HOURS TO VERIFY RESIDUAL OF 10 ppm MINIMUM CHLORINE.
7. AFTER 48 HOURS, IF CHLORINE RESIDUAL LEVEL IS APPROVED, CONTRACTOR SHALL FLUSH NEW MAIN THROUGH R.P. VALVE UNTIL CHLORINE RESIDUAL IS ZERO (0) AS TESTED AND VERIFIED BY THE CITY INSPECTOR. GATE VALVE SHALL THEN BE CLOSED TO MAINTAIN ISOLATION.
8. AFTER 48 HOURS OF ISOLATION, CITY WILL SAMPLE FOR BACTERIOLOGICAL ANALYSIS.
9. UPON APPROVAL OF BACTERIOLOGICAL TEST, CONTRACTOR SHALL REMOVE R.P. VALVE AND BLOW-OFF ASSEMBLY, THEN MAKE CONNECTION TO THE EXISTING WATER MAIN. CITY ENGINEERING DIVISION SHALL BE NOTIFIED 24 HOURS IN ADVANCE AND THE CITY INSPECTOR SHALL BE PRESENT DURING THE CONNECTION PROCEDURE.
10. CONTRACTOR SHALL PREVENT EXCESS WATER WHICH IS FLOWING FROM DISCONNECTED PIPES FROM COMING IN CONTACT WITH EXISTING AND NEW WATER MAIN BY OVER EXCAVATION OF CONNECTION SITE. WATER SHALL BE PUMPED OUT OF WORK AREA TO PREVENT CONTACT WITH AND INFILTRATION INTO THE WATER MAINS.
11. FINAL CONNECTION PIPING AND FITTINGS SHALL BE SWABBED WITH A 1% HYPOCHLORITE SOLUTION IN ACCORDANCE WITH PARAGRAPH 3 ABOVE.
12. THE CONTRACTOR SHALL SUBMIT A CONNECTION SEQUENCE AND PLAN INCLUDING LOCATION OF R.P. VALVE FOR APPROVAL BY THE CITY. IN THOSE CASES WHERE THE POINT OF CONNECTION AND/OR P.R. VALVE ARE LOCATED IN A TRAFFIC AREA, REMOTE LOCATION OF R.P. VALVE MAY BE SUBMITTED FOR APPROVAL.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
11-13-07		
	WATER MAIN CONNECTION PROCEDURE	W-27
		SHT. 2 OF 3

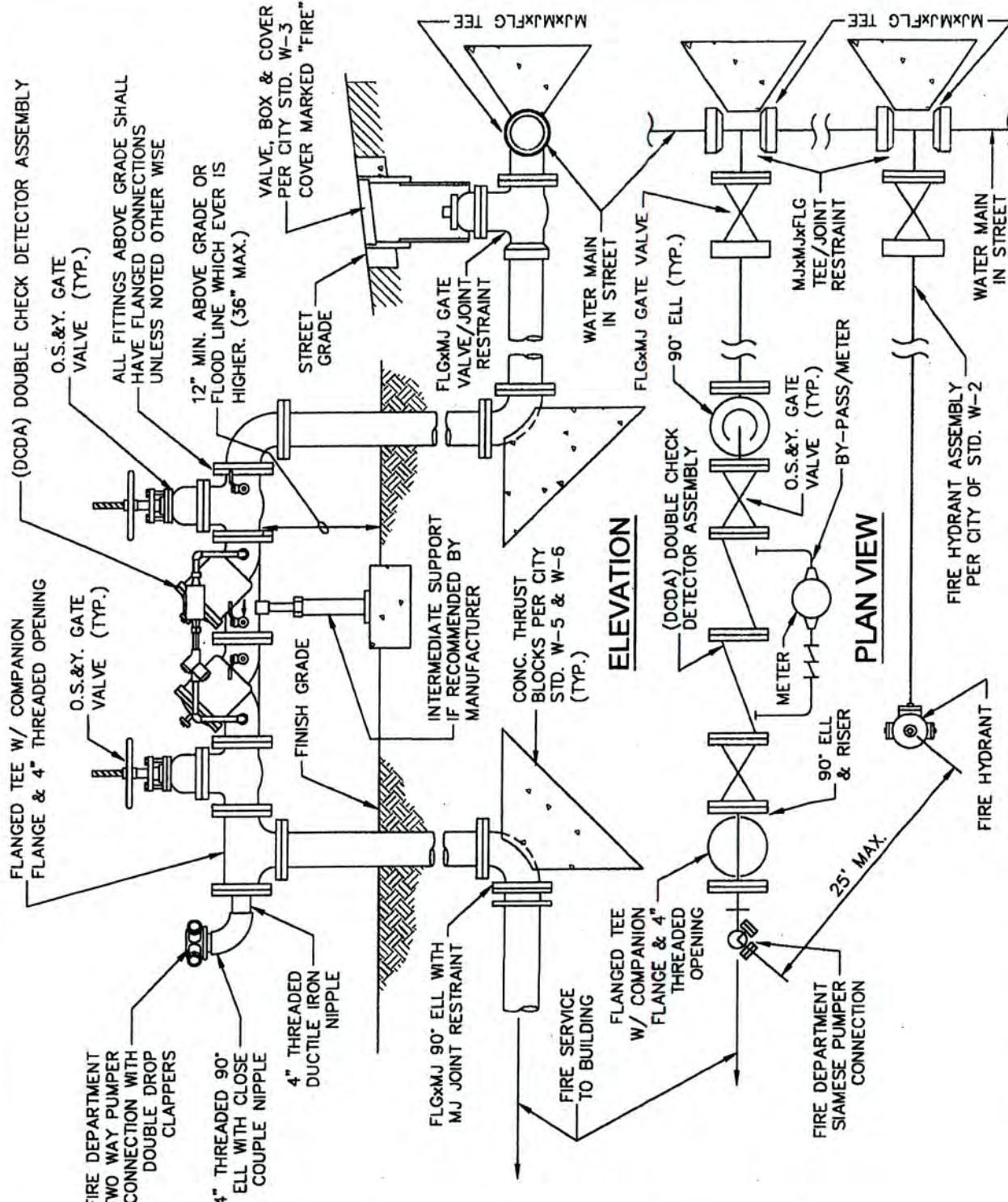
Water Main Installation and Connection Procedure Continued

13. CONTRACTOR SHALL FLUSH NEW WATER MAIN (BOTH WAYS IF POSSIBLE) THROUGH FIRE HYDRANT AND/OR BLOW-OFF ASSEMBLY IMMEDIATELY AFTER ALL CONNECTIONS HAVE BEEN MADE TO THE EXISTING WATER MAINS. THIS IS TO REMOVE CHLORINE SWABBING RESIDUE. THE CITY INSPECTOR WILL THEN VERIFY (0) RESIDUAL. THE CONTRACTOR SHALL THEN CLOSE ALL VALVES, IN THE PRESENCE OF THE INSPECTOR, TO ACHIEVE ISOLATION OF THE NEWLY INSTALLED WATER SYSTEM.
14. CITY WILL SAMPLE FOR BACTERIOLOGICAL ANALYSIS. IF ANY BACTERIA ARE FOUND IN ANY SAMPLES TAKEN THE CONTRACTOR SHALL IMMEDIATELY SUBMIT TO CITY ENGINEERING DIVISION CORRECTIVE ACTION PLANS FOR RECHLORINATION AND RETESTING.
15. CONTRACTOR SHALL REIMBURSE THE CITY FOR ALL COSTS INCURRED BY THE CITY FOR BACTERIOLOGICAL RETESTING PRIOR TO FINAL PROJECT APPROVAL.
16. UPON APPROVAL, CONTRACTOR SHALL FULLY OPEN ALL NEW MAINLINE VALVES AND FIRE HYDRANT VALVES. THE CITY INSPECTOR MUST VERIFY AND APPROVE THIS PROCEDURE PRIOR TO FINAL PROJECT APPROVAL.
17. WATER DISCHARGE FROM FLUSHING OPERATIONS SHALL NOT BE DISCHARGED TO A SANITARY SEWER SYSTEM.

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
11-13-07		WATER MAIN CONNECTION PROCEDURE	W-27
			SHT. 3 OF 3



REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
3/08/10	FIRE SERVICE ASSEMBLY OPTION 1 WITH DETECTOR CHECK VALVE	
W-28 SHT. 1 OF 3		



REVISION DATE

3/08/10

CITY OF CHOWCHILLA

FIRE SERVICE ASSEMBLY OPTION 2
WITH DETECTOR CHECK VALVE

STD.DWG.

W-28

SHT. 2 OF 3

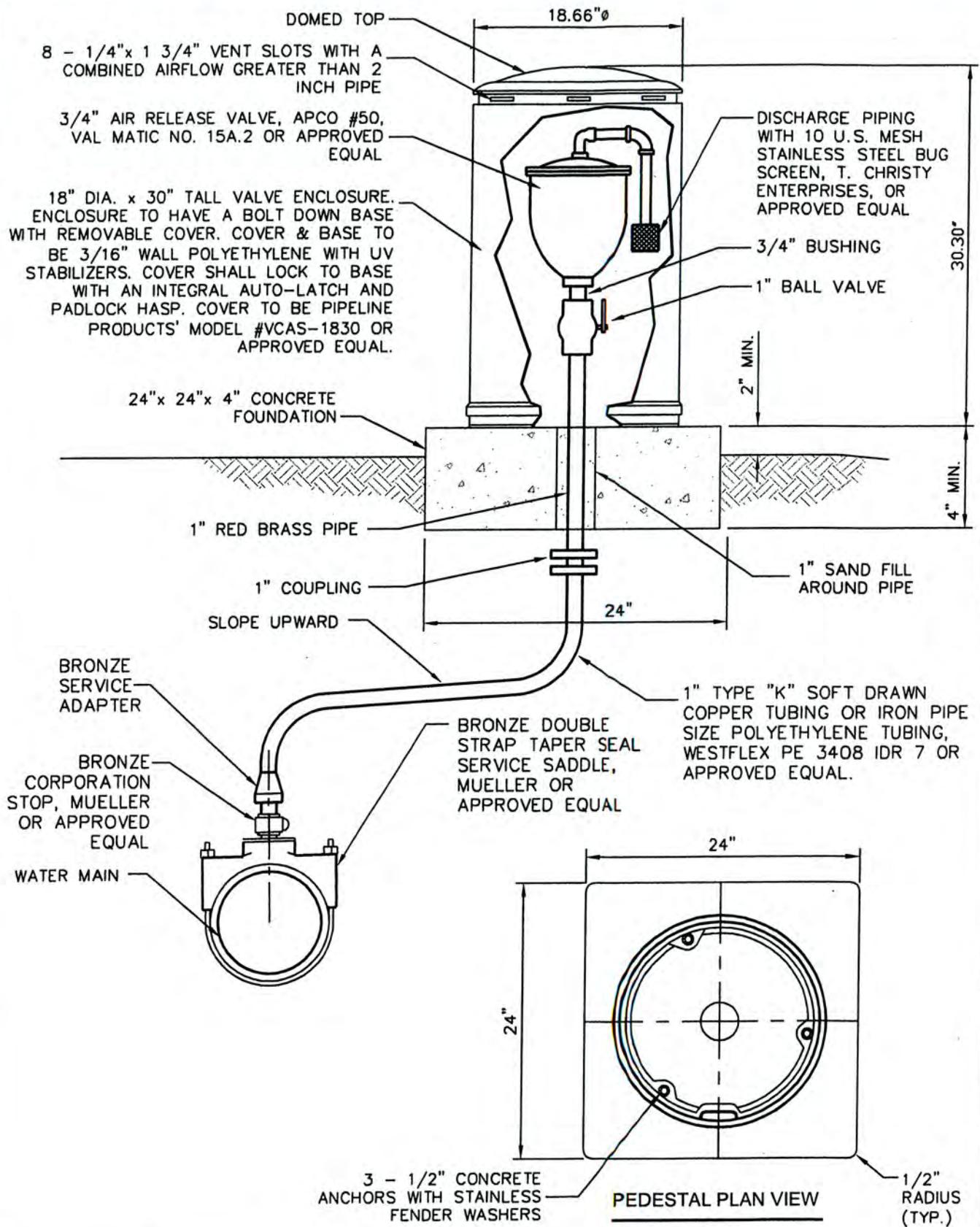
NOTES & SPECIFICATIONS:

1. ALL PIPE AND FITTINGS SHALL BE FLANGED OR MECHANICAL JOIN WITH JOINT RESTRAINT FOR PVC AND APPROVED BY THE CITY ENGINEER. ALL T-BOLTS AND NUTS SHALL BE CORROSION RESISTANT, COR-BLUE, CERAMIC FILLED, WITH BAKED ON FLUOROCARBON RESIN. ALL FLANGE BOLTS AND NUTS SHALL BE XYLAN COATED. GALVANIZED PIPE APPROVED FOR USE IN A BURIED APPLICATIONS SHALL BE WRAPPED WITH 20 MIL PVC PIPE WRAP.
2. CONCRETE SHALL HAVE 5 SACKS OF CEMENT MINIMUM PER CUBIC YARD OF CONCRETE.
3. THE BACKFLOW PREVENTER DEVICES AND INSTALLATIONS SHALL BE APPROVED BY THE CITY OF CHOWCHILLA DEPARTMENT OF PUBLIC WORKS.
4. VALVE ASSEMBLIES MAY HAVE SCREWED FITTINGS OR FLANGED. IF SCREWED FITTINGS ARE USED UNIONS SHALL BE INSTALLED ON EACH SIDE OF ASSEMBLY ABOVE GROUND.
5. COAT ALL EXPOSED THREADS WITH AN APPROVED RUST INHIBITING SEALANT.
6. APPROVED PLASTIC TAPE, 1/2" WIDE, SHALL BE USED ON ALL THREADED CONNECTIONS.
7. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
8. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.
9. DOUBLE CHECK DETECTOR ASSEMBLY SHALL BE FEBCO MODEL 856, WILKINS 350ADA, OR APPROVED EQUAL.
10. FLANGED POST INDICATOR VALVE SHALL BE POTTER-ROEMER, INC. MODEL 6223 WITH TAMPER SWITCH AND CONDUIT WITH WIRES TO ALARM PANEL, OR APPROVED EQUAL.
11. FIRE DEPARTMENT CONNECTIONS SHALL HAVE NST THREADS AND LETTERING "AUTO. SPKR."

OPTION 1: SHALL BE POTTER-ROMER MODEL 5746-C. THREEWAY WITH TRIPLE CLAPPERS OR APPROVED EQUAL. ON THREADED 6" DUCTILE IRON PIPE RISER. RISER SHALL BE PAINTED WITH 1 COAT PRIMER AND 2 COATS RED ENAMEL.

OPTION 2: SHALL BE POTTER-ROMER MODEL 5731-C TWO WAY WITH DOUBLE CLAPPERS OR APPROVED EQUAL ON THREADED 4" CONNECTION.
12. POST INDICATOR VALVE AND FIRE DEPARTMENT CONNECTIONS SHALL MEET THE CITY OF CHOWCHILLA, FIRE DEPARTMENT STANDARDS. FOR OPTION 2, PROVIDE HEAVY DUTY CHAIN TO LOCK VALVES ON DETECTOR ASSEMBLY. PROVIDE ONE 6 INCH LONG CHAIN SECTION FOR DOUBLE LOCKING WITH CITY AND FIRE DEPARTMENT LOCKS.
13. BACKFLOW ASSEMBLIES 2" OR SMALLER SHALL BE COVERED WITH APPROVED PROTECTIVE ENCLOSURE AND COVERED WITH A PROTECTIVE FREEZE BLANKET APPROVED BY THE CITY ENGINEER.
14. UNDERGROUND PIPING FOR FIRE LINES SHALL BE TESTED HYDROSTATICALLY AT 200 PSI FOR 2 HOURS AS PER NFPA 13. UNDERGROUND PIPE DURING TESTING SHALL NOT BE BURIED BUT MAY BE CENTERED LOAD BURIED DURING 200 PSI TEST.

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
3/08/10		
	FIRE SERVICE ASSEMBLY NOTES AND SPECIFICATIONS	W-28
		SHT. 3 OF 3



REVISION DATE

CITY OF CHOWCHILLA

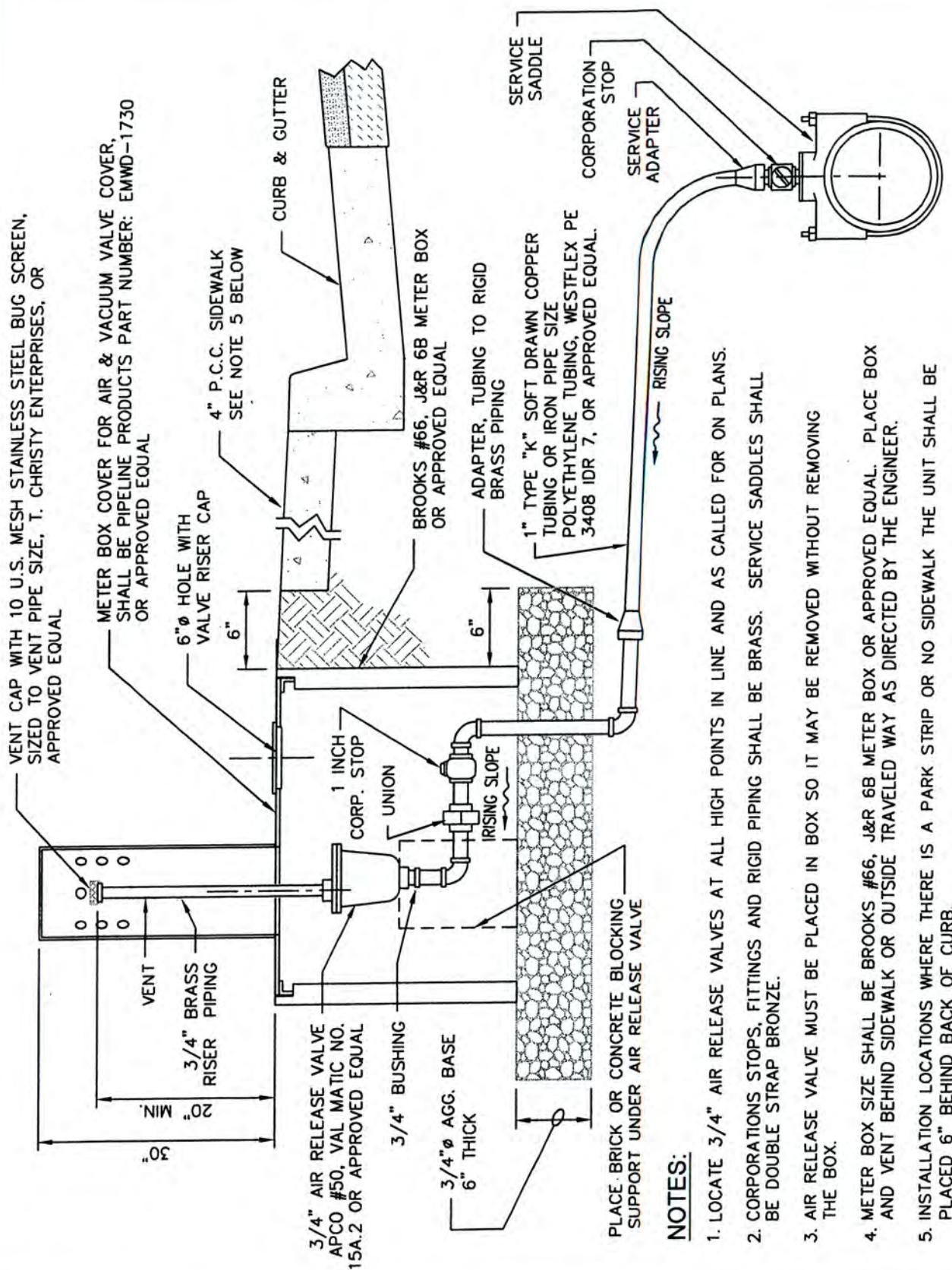
STD.DWG.

10-13-08

AIR RELEASE VALVE

W-29

ALT 1



REVISION DATE

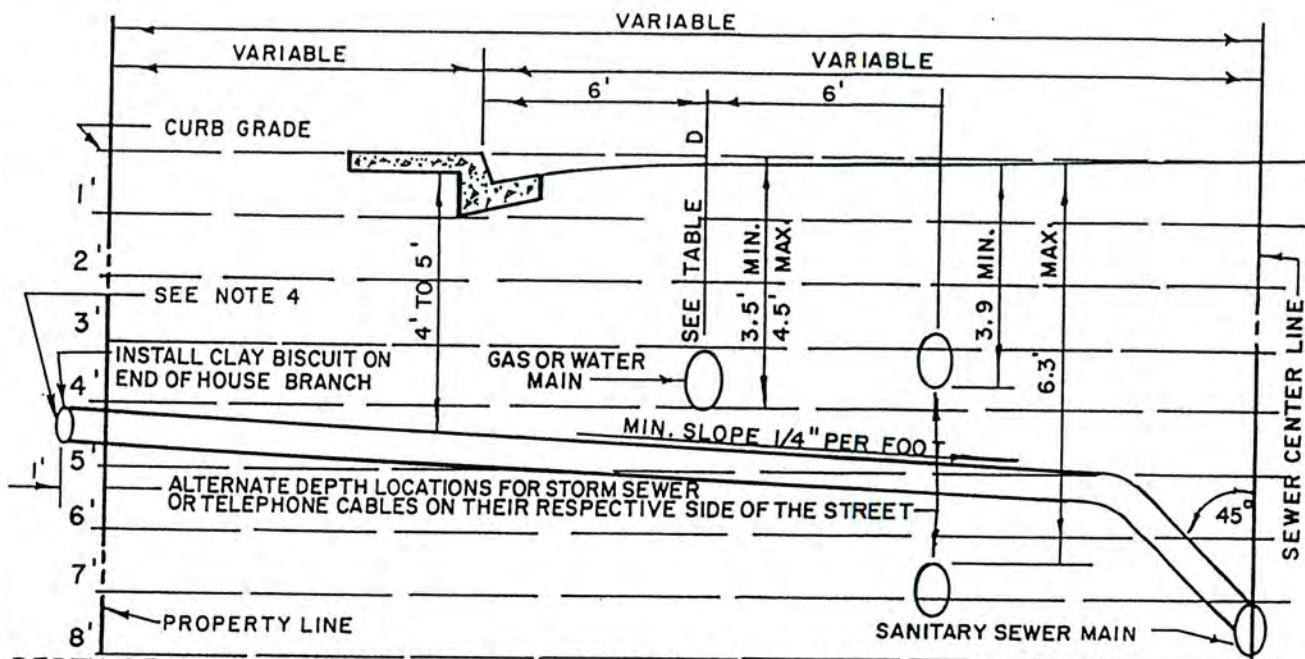
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CITY OF CHOWCHILLA

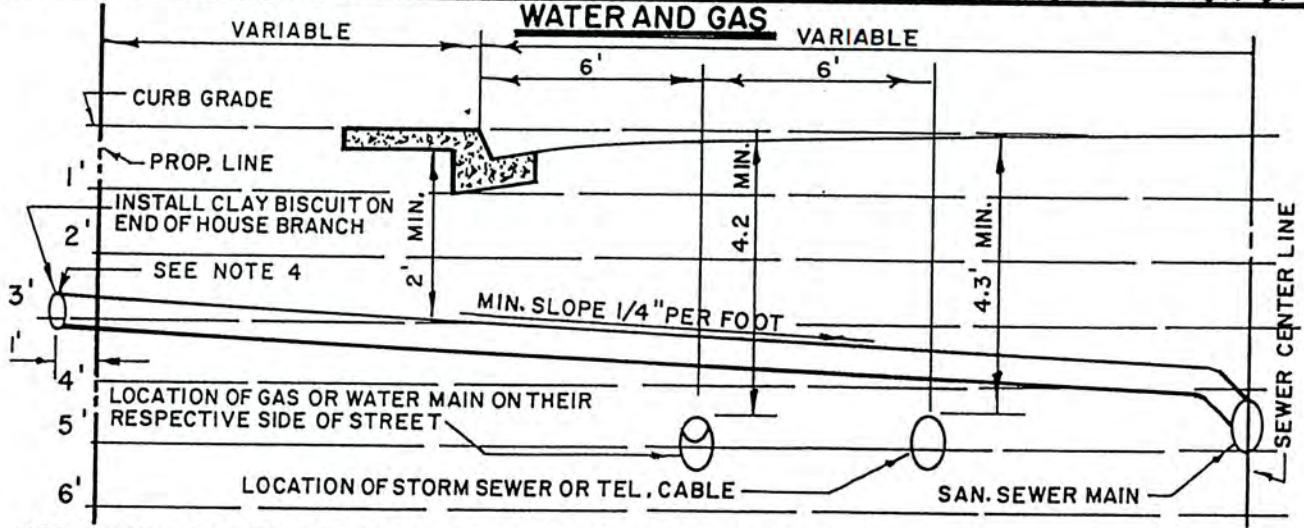
AIR RELEASE VALVE

Std. Dwg.

W-29
ALT 2



DEPTH OF HOUSE BRANCH IF SEWER INSTALLATION PRECEDES INSTALLATION OF WATER AND GAS



DEPTH OF WATER OR GAS MAINS IF INSTALLATION OF WATER OR GAS MAINS PRECEDES INSTALLATION OF SEWERS

DEPTH SCHEDULE		
DISTANCE	"A"	"D"
6" WATER OR GAS MAIN	4.0'	3.5'
8" WATER OR GAS MAIN	4.3'	3.8'
10" WATER OR GAS MAIN	4.7'	4.2'
12" WATER OR GAS MAIN	5.0	4.5'

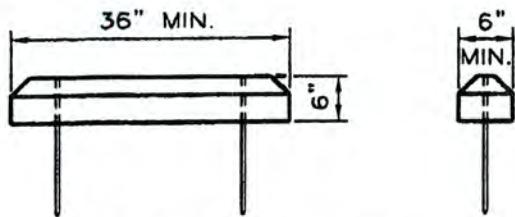
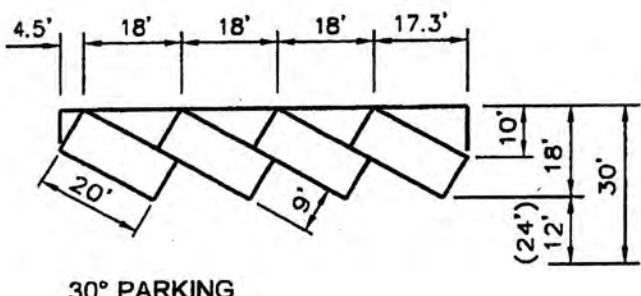
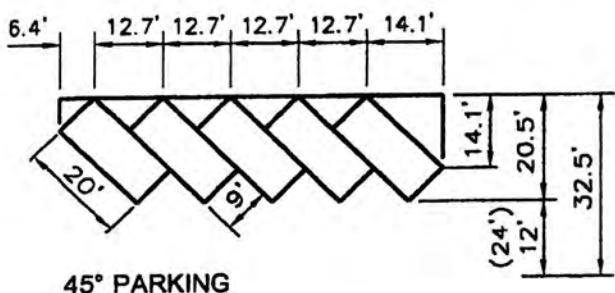
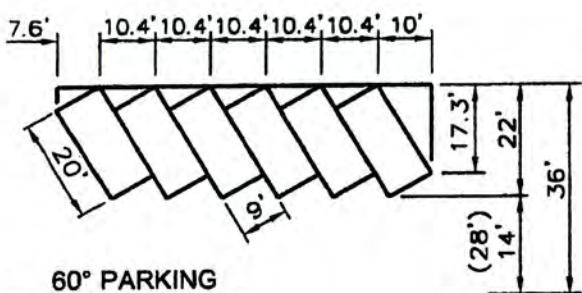
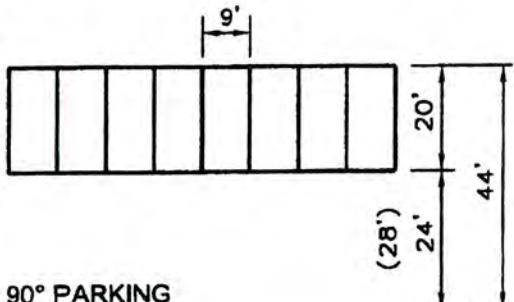
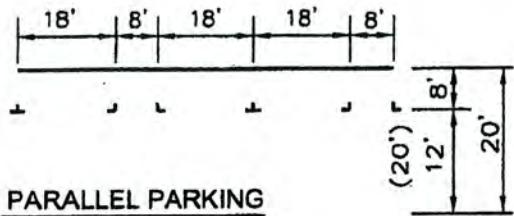
"A" & "D" DIMENSIONS ARE SET TO ALLOW 0.6' CLEARANCE BETWEEN SEWER AND WATER LINES.

NOTES:

1. EXTEND HOUSE BRANCH 1' BEYOND PROPERTY LINES IN ALL CASES.
2. WATER MAINS AND TELEPHONE DUCTS SHALL OCCUPY ONE SIDE OF THE STREET, GAS MAINS AND STORM MAINS TO OCCUPY THE OTHER SIDE.
3. THE LETTER "S" (3" HIGH) SHALL BE SCRIBED IN FACE OF THE CURB AT THE LOCATION OF THE HOUSE BRANCH.
4. WHEN INSTALLING A NEW HOUSE BRANCH LINE FROM THE MAIN SEWER LINE, PLACE A 2"x 4" WOODEN STAKE AT THE END OF THE SERVICE BRANCH, THE STAKE SHOULD EXTEND FROM THE END OF THE BRANCH LINE TO A POINT APPROX. 2' ABOVE THE CURB GRADE.

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
9-24-90			
			M-1

HOUSE BRANCH & UTILITIES LOCATIONS IN STREET

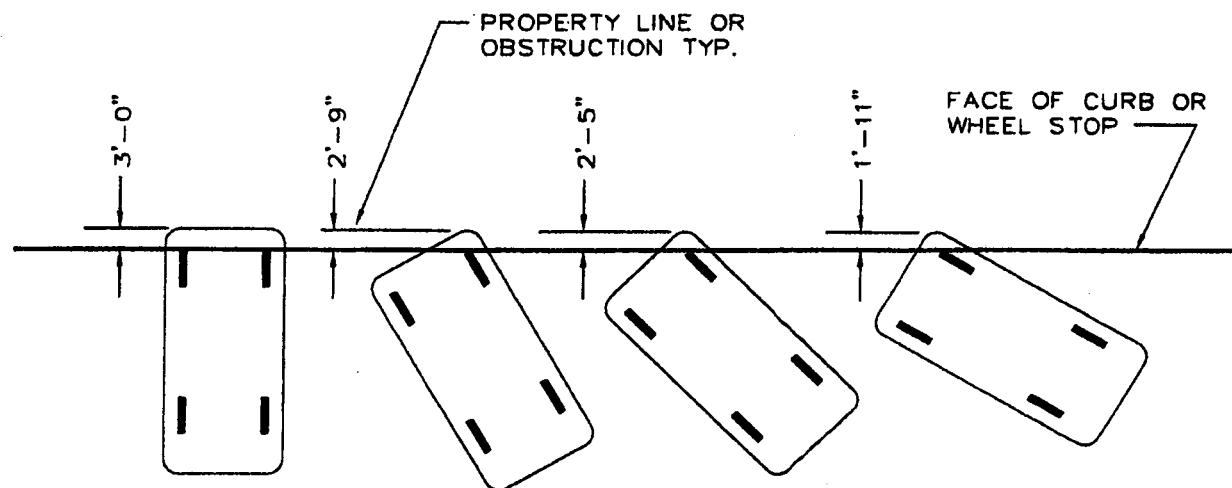


CONCRETE WHEEL STOP

NOTES:

1. DIMENSIONS IN PARENTHESIS INDICATE THE MINIMUM AISLE REQUIRED FOR TWO WAY TRAFFIC.
2. THE PERCENT OF AREA TO BE LANDSCAPED SHALL BE DETERMINED AT THE TIME OF SITE PLAN REVIEW.
3. PROVIDE THE REQUIRED NUMBER OF PARKING STALLS SPECIFIED BY THE CITY PLANNING DEPARTMENT, BASED ON ZONING AND LAND USE.
4. INSTALL WHEEL STOPS TO PREVENT PARKED CARS FROM ENCROACHING OVER SIDEWALKS, ADJOINING PROPERTY OR CITY RIGHT-OF-WAY. REFER TO STD. DWG. M-2, SHEET 2 OF 5 FOR OVERHANG CLEARANCE AND WHEEL STOP REQUIREMENTS.
5. REFER TO CONSTRUCTION PLANS FOR PARKING LOT DRAINAGE AND STRUCTURAL SECTION REQUIREMENTS.
6. PARKING LOTS SHALL HAVE 2% OF THE SPACES DESIGNATED FOR THE PHYSICALLY HANDICAPPED. PARKING LOTS WITH 50 SPACES OR LESS SHALL HAVE A MINIMUM OF ONE HANDICAPPED PARKING SPACE.
7. SEE SHEETS 3, 4 AND 5 FOR HANDICAPPED PARKING STALL AND SIGNAGE REQUIREMENTS.
8. A MAXIMUM OF 30% OF THE REQUIRED PARKING SPACES MAY BE DESIGNED FOR COMPACT AUTOMOBILES. HOWEVER, NOT MORE THAN 30 SPACES WILL BE ALLOWED IN ANY ONE ON-SITE PARKING LOT WITHOUT HAVING FIRST OBTAINED PERMISSION FROM THE CITY ENGINEER. SIZE OF COMPACT AUTOMOBILE STALLS SHALL BE NO LESS THAN 9 FEET IN WIDTH AND 16 FEET IN LENGTH.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
4/10/01			M-2
03-06			1 OF 5
6-25-07	PARKING LOT LAYOUT		



FRONT OVERHANG CLEARANCE

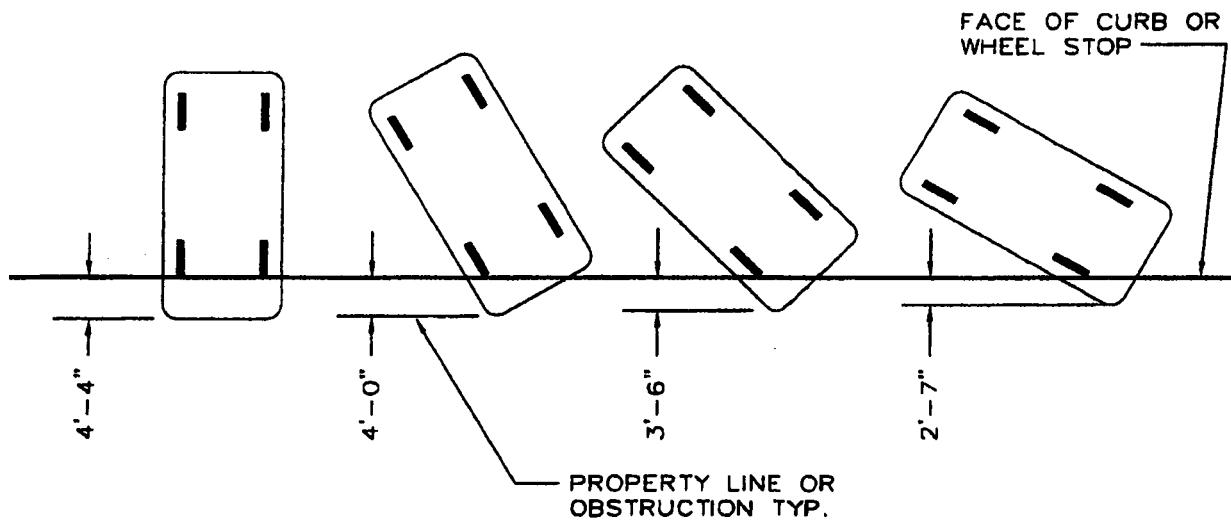
90°

60°

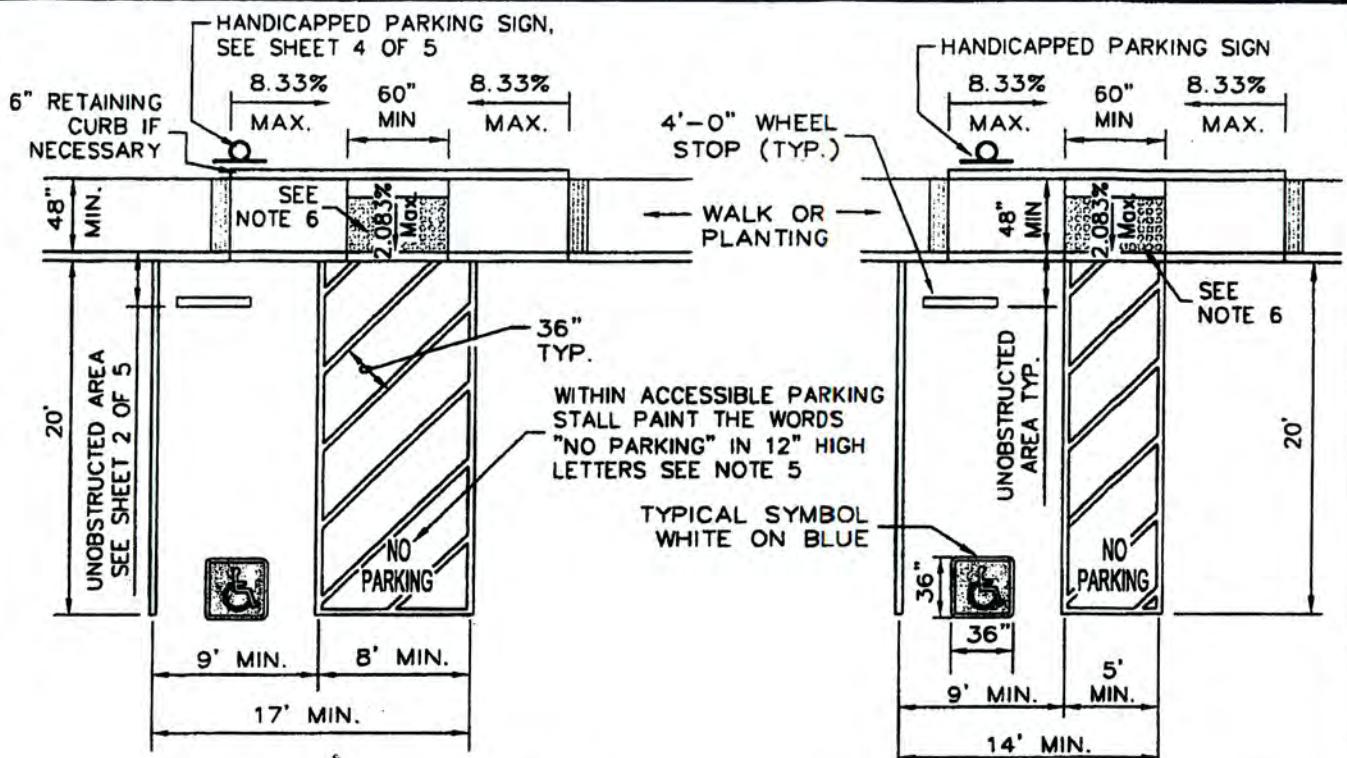
45°

30°

REAR OVERHANG CLEARANCE



REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
11-20-92		PARKING LOT	M-2
		OVERHANG CLEARANCE	2 OF 5



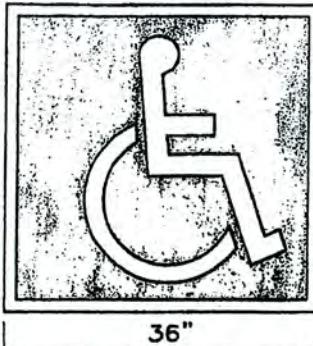
VAN ACCESSIBLE HANDICAPPED
PARKING SPACE

STANDARD HANDICAPPED
PARKING SPACE

NOTES:

1. FIRST HANDICAPPED PARKING SPACE IN ANY FACILITY SHALL BE VAN ACCESSIBLE, PARKING SPACE DIMENSIONS SHALL BE 20 FOOT LONG BY 9 FOOT MINIMUM WIDE WITH A 8 FOOT MINIMUM ACCESS AISLE ON THE PASSENGER SIDE. SLOPE OF PARKING SPACE AND ACCESS AISLE SHALL NOT EXCEED 2.083% IN ANY DIRECTION.
2. IN EACH PARKING STALL, A CURB OR BUMPER SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS.
3. WHEELCHAIR USER MUST NOT BE FORCED TO GO BEHIND PARKED CARS OTHER THAN THEIR OWN.
4. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND, SEE M-2, SHEET 4 OF 5.
5. THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. MARKINGS SHALL CONFORM TO CALTRANS REVISED NEW STANDARD PLAN RNSP A90B.
6. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3.0' DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO CALTRANS STD. RSP A88A, CASE "C" AND THE REQUIREMENTS IN THE SPECIAL PROVISIONS.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
7-28-97			M-2
03-06			3 OF 5
10-9-06	HANDICAPPED PARKING		



PAINTED PARKING SURFACE EMBLEM

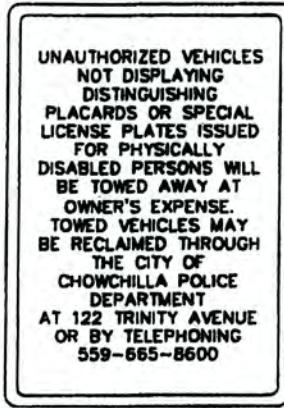
36" ← → 36"

1/2" RADIUS TYP.

BLUE

WHITE

REFLECTORIZED SIGN TO BE CONSTRUCTED OF PORCELAIN STEEL WITH BEADED TEXT, OR EQUAL. 70 SQ. INCH MIN.



SEE NOTE NO. 7

WARNING SIGN

NOTES:

1. SIGNAGE IS TO BE INSTALLED AT EACH SPACE.
2. AREA OF THE SIGN(S) IS NOT SMALLER THAN 70 SQUARE INCHES.
3. WHEN POSTED IN A PATH OF TRAVEL, THE BOTTOM OF THE SIGN IS TO BE 7'-0" MINIMUM FROM THE PARKING SPACE FINISHED GRADE.
4. WHEN WALL MOUNTED, SIGN IS CENTERED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 36" FROM THE PARKING SPACE FINISHED GRADE, GROUND OR SIDEWALK.
5. VAN ACCESSIBLE PARKING SPACES HAVE ADDITIONAL SIGN MOUNTED BELOW SYMBOL OF ACCESSIBILITY THAT STATES "VAN ACCESSIBLE".
6. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY OUTLINING A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON BLUE BACKGROUND. THE PROFILE VIEW SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE AND SHALL BE 36" HIGH BY 36" WIDE.
7. AN ADDITIONAL SIGN SHALL ALSO BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN 17 INCHES BY 22 INCHES (432mm BY 559mm) IN SIZE WITH LETTERING NOT LESS THAN 1 INCH (25mm) IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:

"UNAUTHORIZED VEHICLES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSES PLATES ISSUED FOR PHYSICALLY DISABLED PERSONS WILL BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT THE CITY OF CHOWCHILLA POLICE DEPARTMENT AT 122 TRINITY AVENUE OR BY TELEPHONING 559-665-8600."

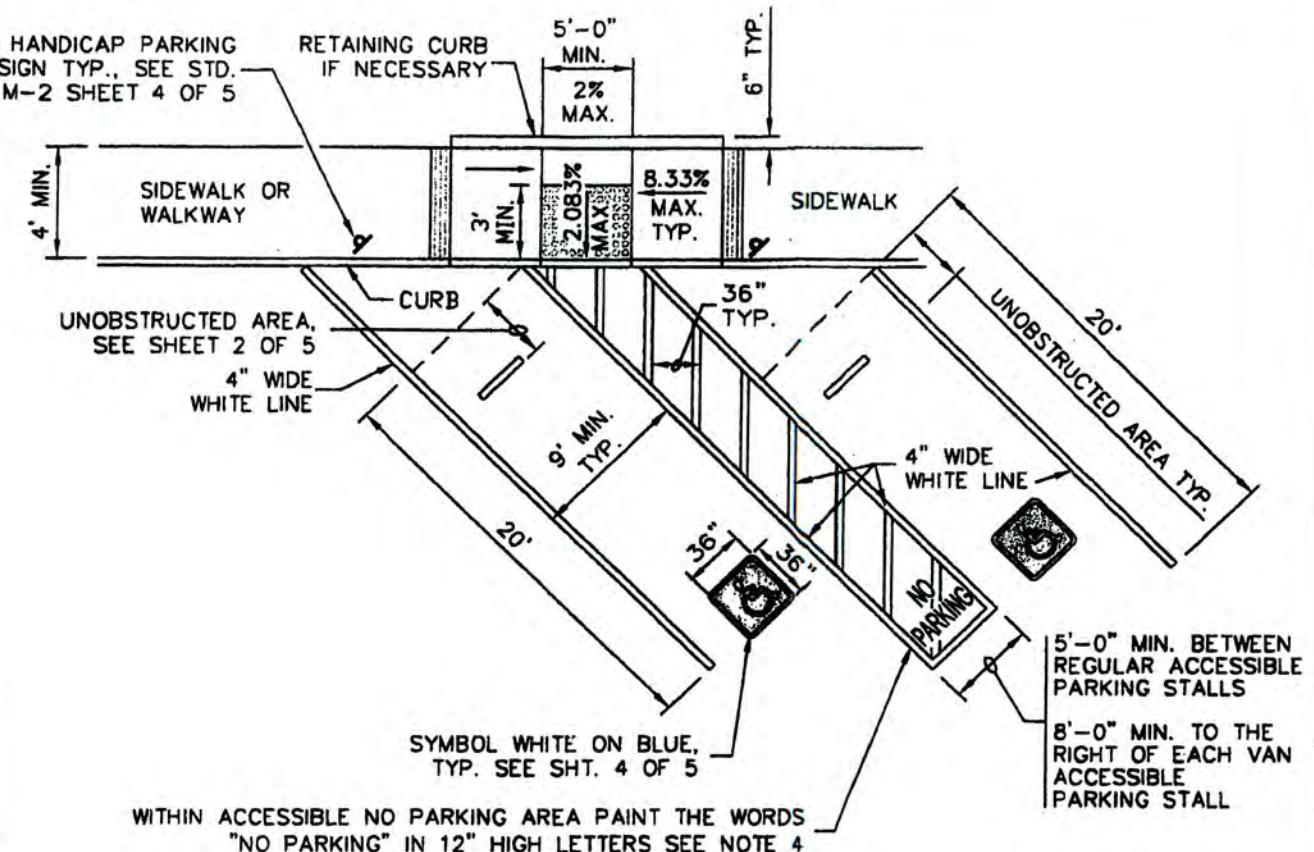
80" MIN. FOR FREE STANDING
36" MIN. FOR WALL MOUNTED

TO TOP OF WALKING SURFACE



WALL OR FREE STANDING SIGN

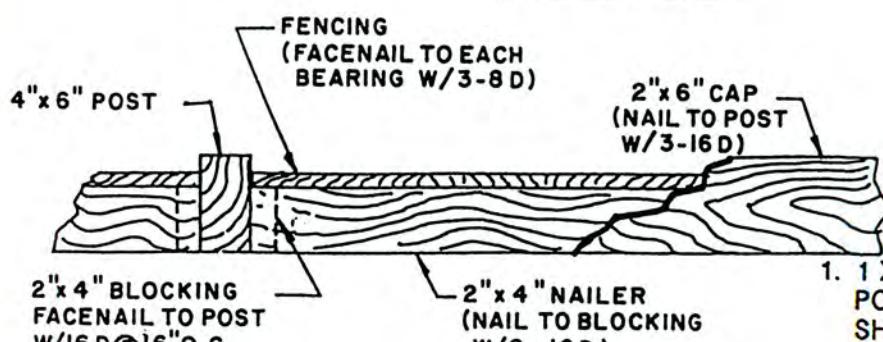
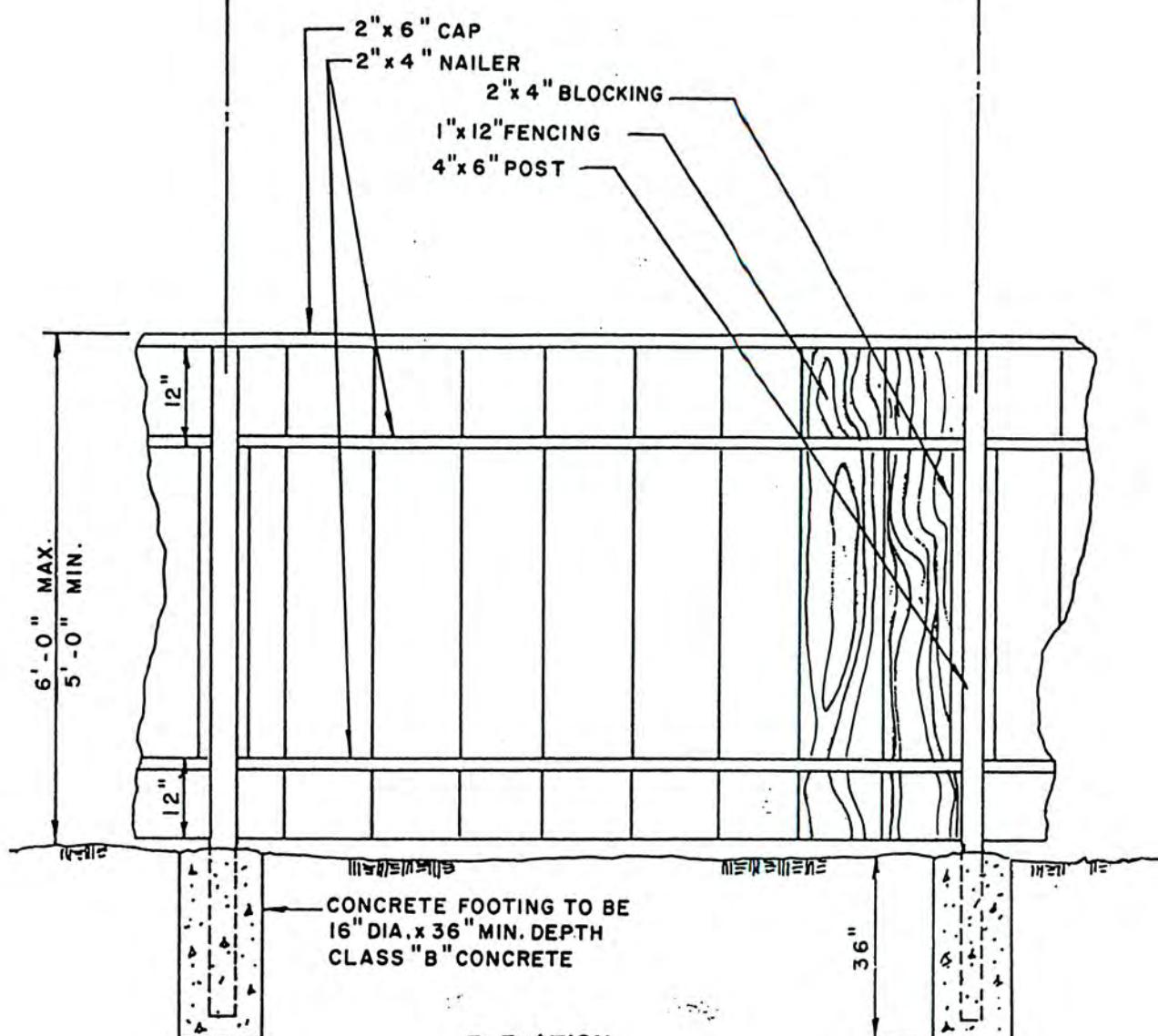
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
7-28-97			M-2
10-9-06			4 OF 5
6-25-07	HANDICAPPED PARKING SPACE SIGNAGE		



NOTES:

1. FIRST HANDICAPPED PARKING SPACE IN ANY FACILITY SHALL BE VAN ACCESSIBLE, PARKING SPACE DIMENSIONS SHALL BE 20 FOOT LONG BY 9 FOOT MINIMUM WIDE WITH A 8 FOOT MINIMUM ACCESS AISLE ON THE PASSENGER SIDE. SLOPE OF PARKING SPACE AND ACCESS AISLE SHALL NOT EXCEED 2.083% IN ANY DIRECTION.
2. IN EACH PARKING STALL, A CURB OR BUMPER SHALL BE PROVIDED AND LOCATED TO PREVENT ENROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.
3. EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON DARK BLUE BACKGROUND, SEE M-2, SHEET 4 OF 5.
4. THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. MARKINGS SHALL CONFORM TO CALTRANS REVISED NEW STANDARD PLAN RNSP A90B.
5. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3.0' DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO CALTRANS STD. RSP A88A, CASE "C" AND THE REQUIREMENTS IN THE SPECIAL PROVISIONS.
6. SEE CITY STD. M-2 SHEET 4 OF 5 WARNING SIGN NOTE NO. 7.
7. CURB ACCESS RAMP WILL NOT BE REQUIRED WHEN THE UNOBSTRUCTED WALKWAY IS THE SAME LEVEL AS THE PARKING AREA.

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
6-25-07		
	HANDICAPPED PARKING DIAGONAL PARKING SPACES	M-2 5 OF 5

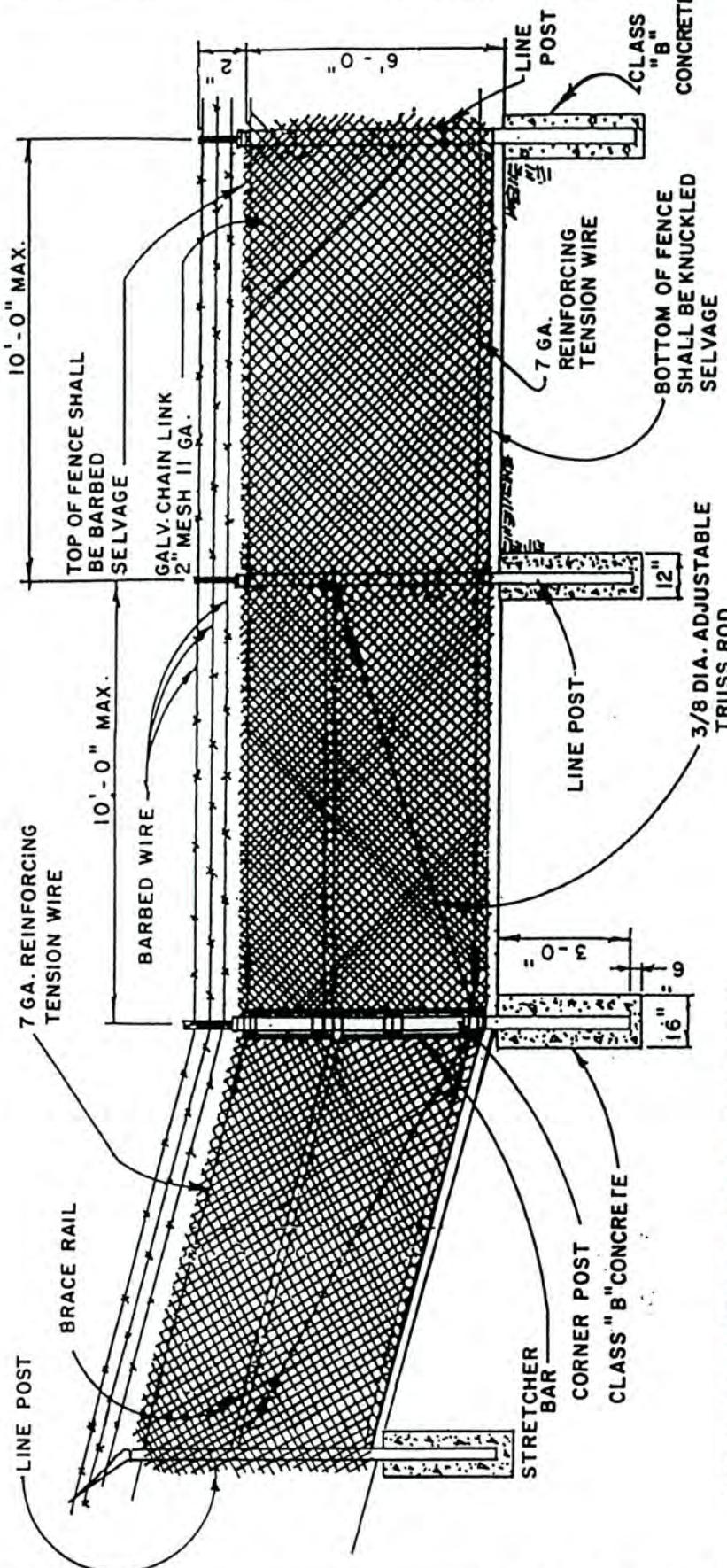


DETAIL

NOTES:

1. 1 X 12 FENCING SHALL BE CEDAR. POSTS, BLOCKING AND NAILERS SHALL BE PRESSURE TREATED DOUGLAS FIR CONFORMING TO U. B. C. STD. 25-12.
2. ALL NAILS USED ARE TO BE GALVANIZED. NUMBER AND SIZE AS NOTED.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	WOOD FENCE DETAIL	M-3



NOTE: ALL MATERIALS HOT-DIP GALVANIZED
(EXCEPT AS NOTED).
WHEN DIRECTED BY THE CITY ENGINEER,
THE CHAINLINK FABRIC SHALL HAVE
FACTORY INSTALLED POLYETHYLENE OR
WOOD SLATS.

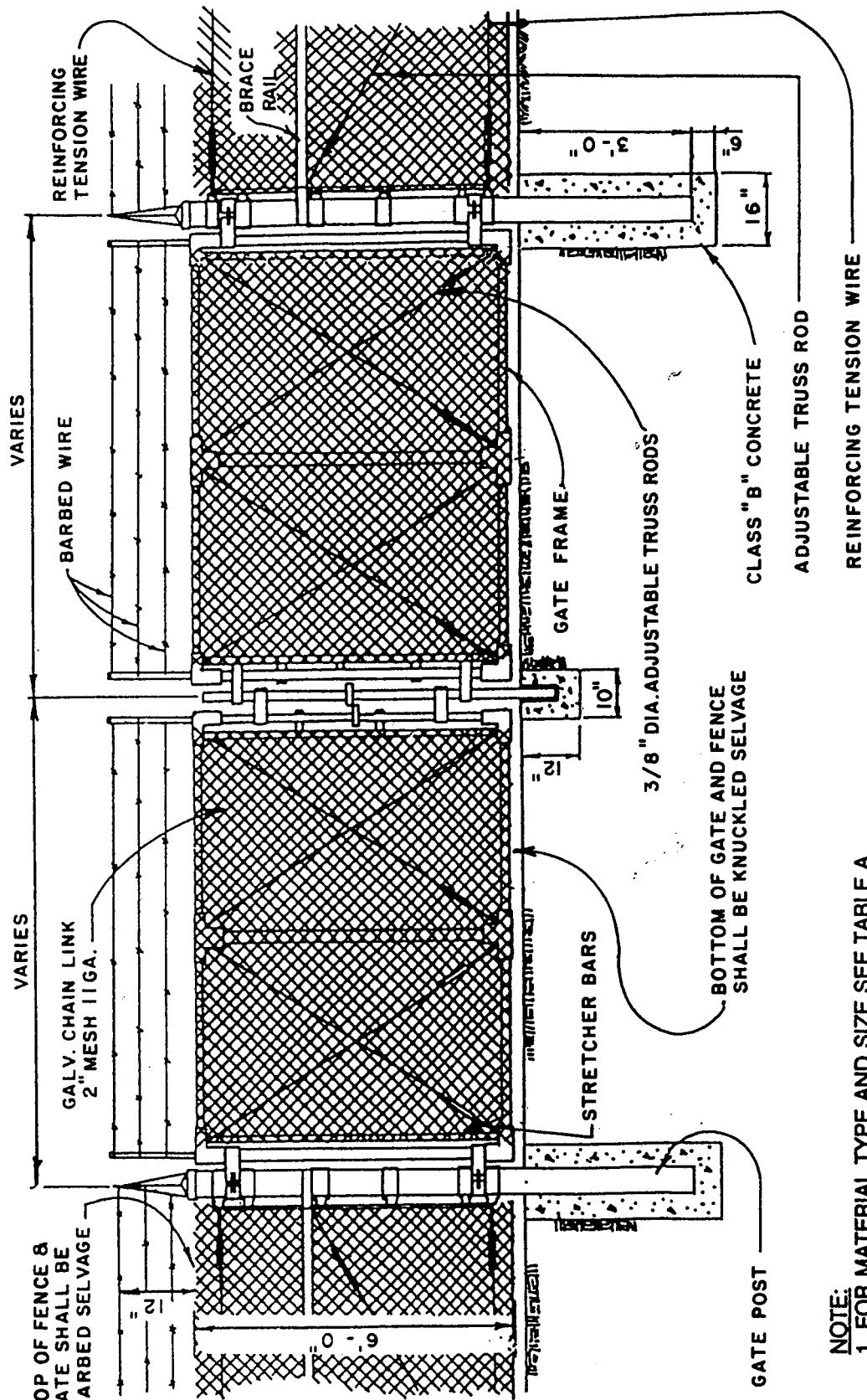
TYPICAL FENCE ELEVATION

TABLE A		
DESCRIPTION	SIZE	DESCRIPTION
END POSTS	2 - 7/8" OD SCH. 40	STRETCHER BAR BANDS
CORNER POSTS	2 - 7/8" OD SCH. 40	STRETCHER BARS
LINE POSTS	2 - 3/8" OD SCH. 40	TRUSS RODS
TENSION WIRE	7 GA. REINFORCING	TENSION WIRE TIES
BRACE RAIL	1 - 5/8" OD SCH. 40	LINE POST TIES
GALVANIZED		BARBED WIRE
AFTER WEAVING,		GATE POSTS
CHAIN LINK FABRIC	2 X 11 X 6'	

REVISION DATE	

CITY OF CHOWCHILLA
CHAIN LINK FENCE

Std. Dwg. **M-4**
1 OF 2

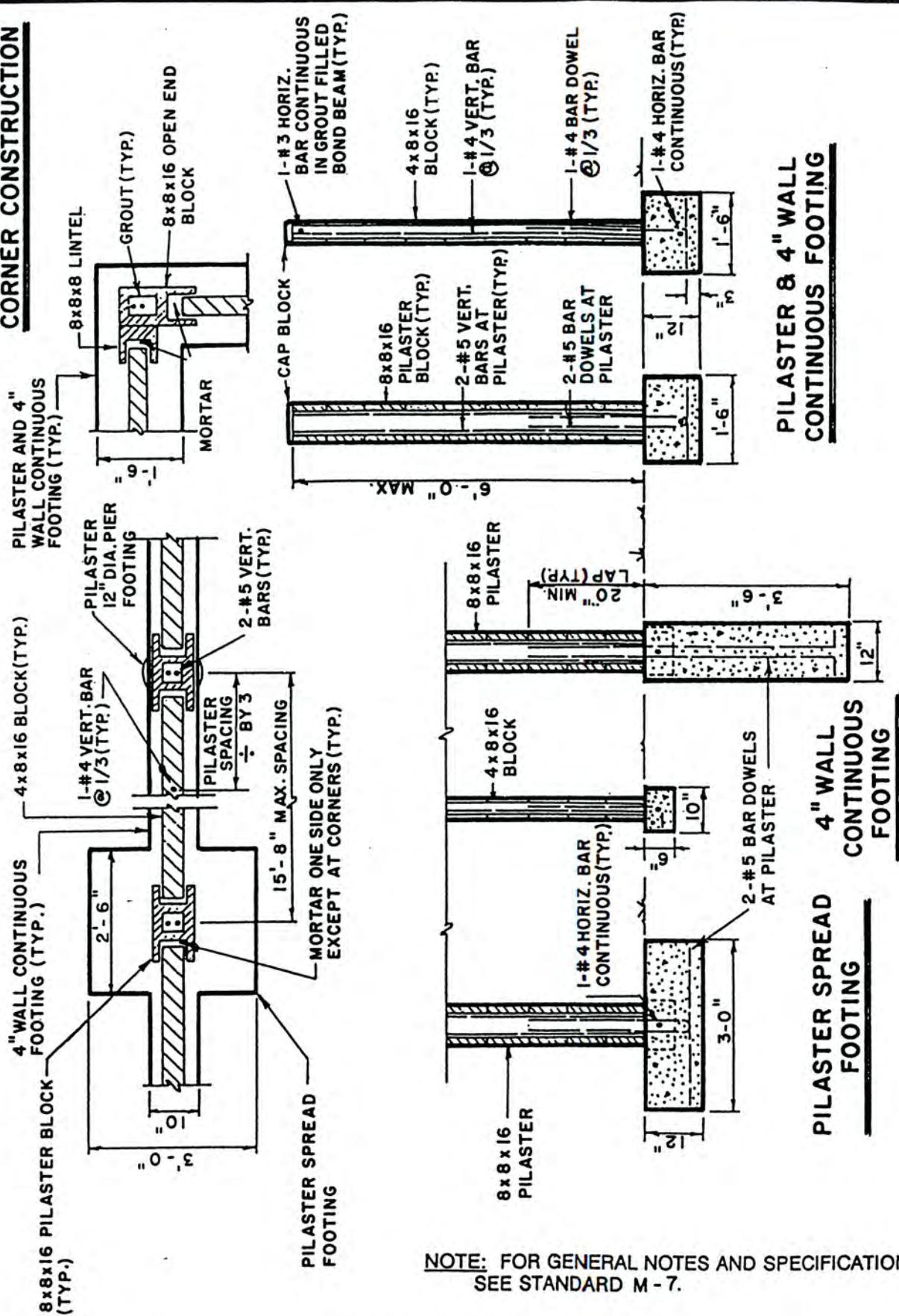


NOTE: 1. FOR MATERIAL TYPE AND SIZE SEE TABLE A

12. PROVIDE GALVANIZED GATE LATCHES FOR POSITIVE OPEN POSITION. ONE REQUIRED FOR EACH GATE WING.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	CHAIN LINK GATE	M-4
		2 OF 2

CORNER CONSTRUCTION



NOTE: FOR GENERAL NOTES AND SPECIFICATIONS
SEE STANDARD M - 7.

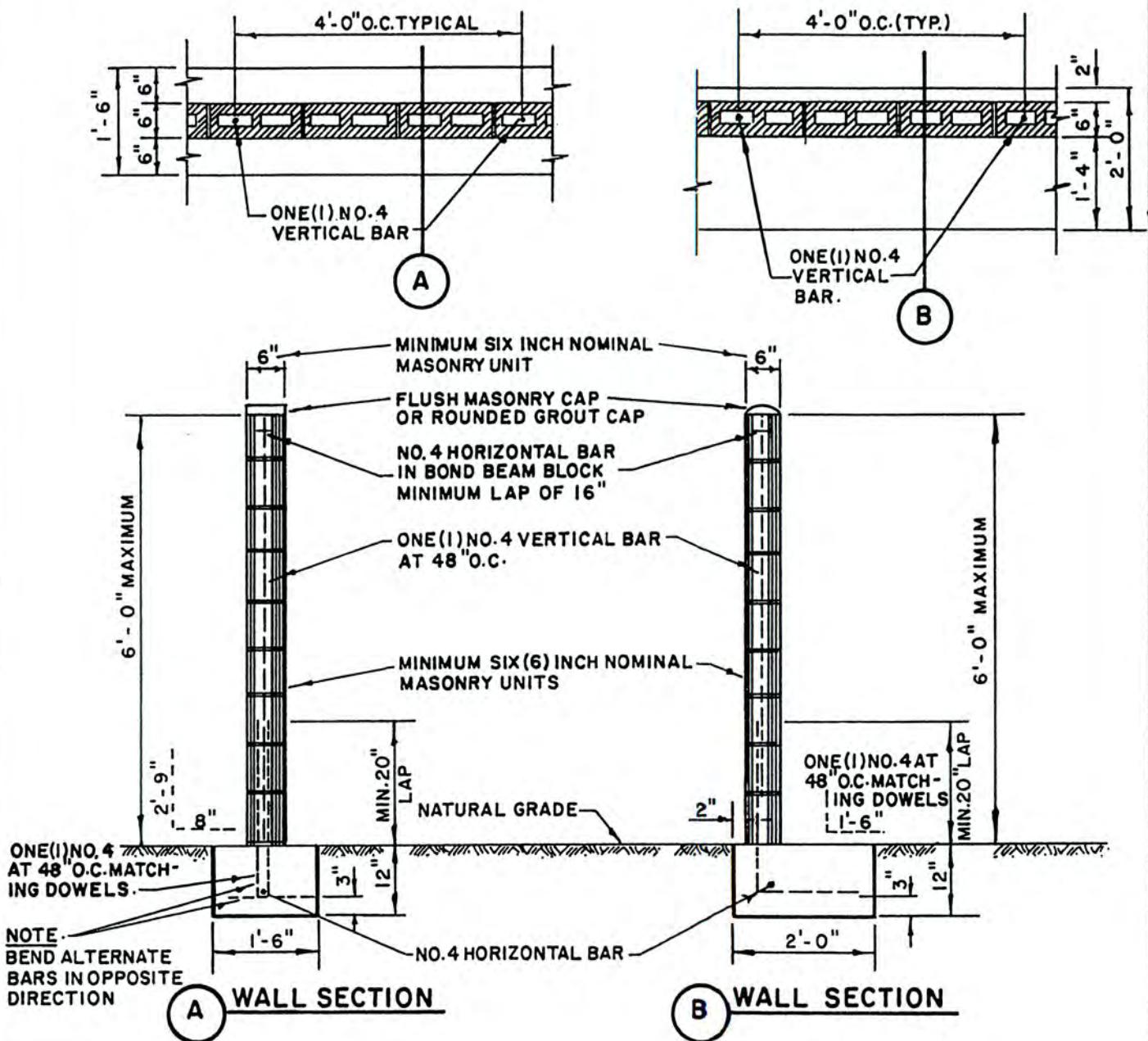
REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

4" CONCRETE BLOCK FENCE

M-5



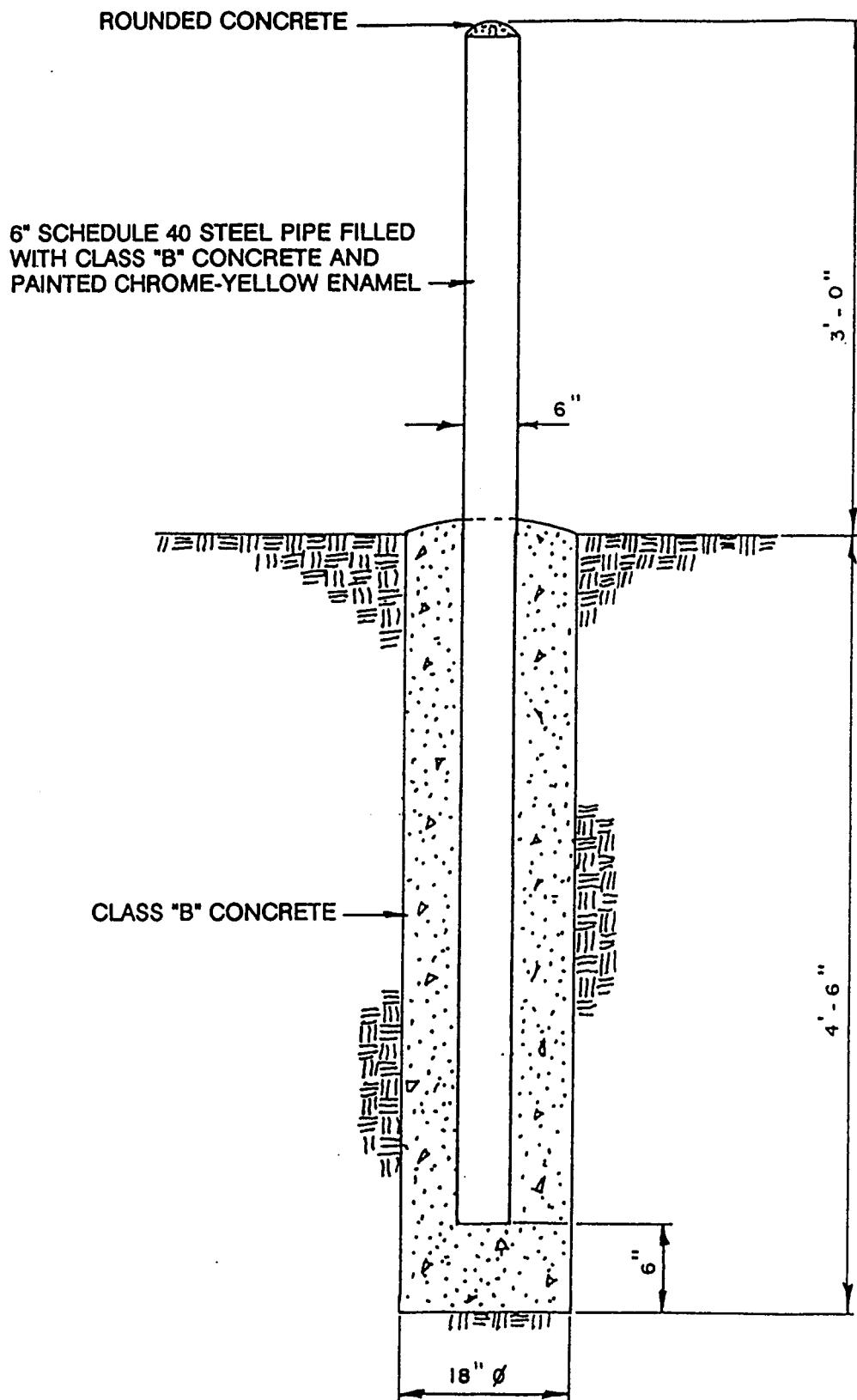
NOTE: FOR GENERAL NOTES AND SPECIFICATIONS
SEE STANDARD M-7.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	6 " CONCRETE BLOCK FENCE	M-6

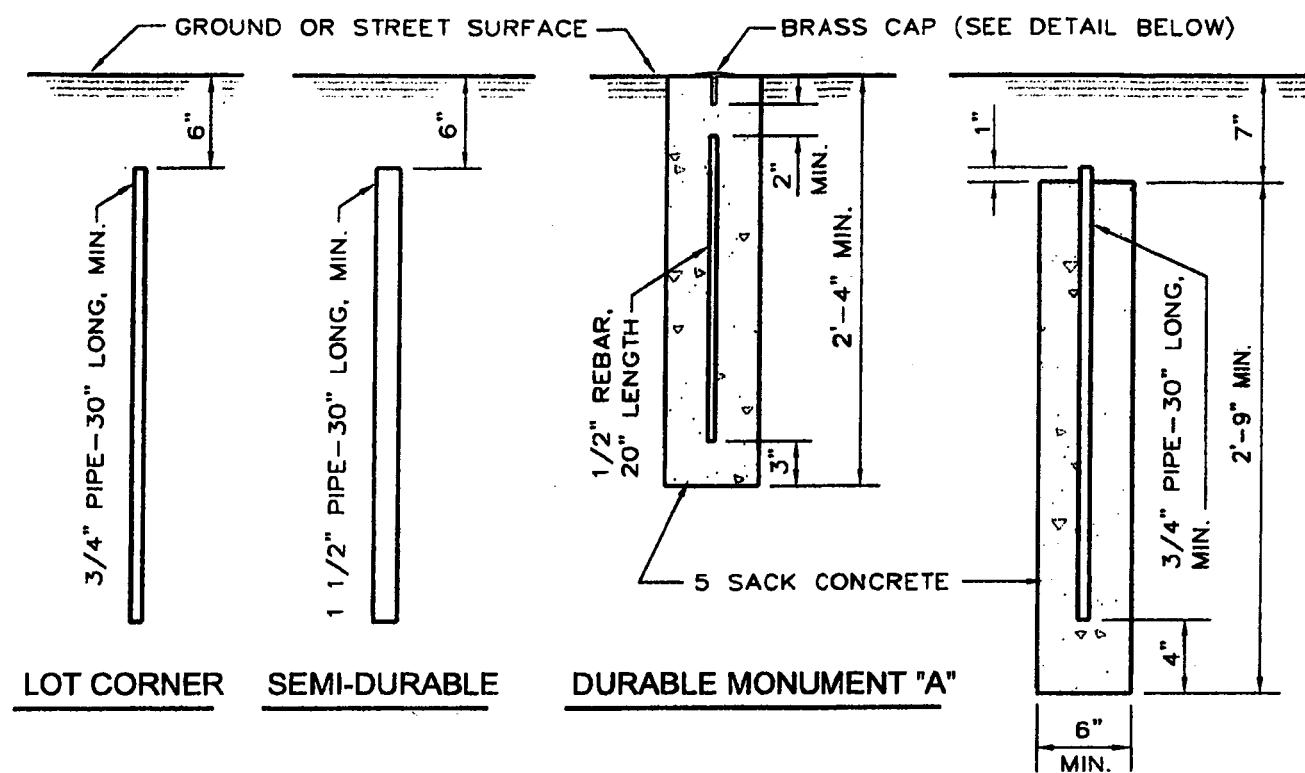
GENERAL NOTES AND SPECIFICATIONS

1. ALL CONSTRUCTION SHALL COMPLY WITH THE UNIFORM BUILDING CODE.
2. GROUT ALL CELLS CONTAINING REINFORCING STEEL.
3. ALL MASONRY UNITS SHALL COMPLY WITH THE LATEST ADOPTED UNIFORM BUILDING CODE, U. B. C. STD. 24-4 AND ASTM C-90, GRADE N.
4. ALL MASONRY WALLS SHALL BE INSPECTED BY THE CITY ENGINEER.
5. DEPTHS OF FOOTINGS ARE INTO NATURAL UNDISTURBED SOIL OR TESTED AND APPROVED COMPACTED FILL.
6. REINFORCING STEEL SHALL BE DEFORMED BARS MINIMUM GRADE 40.
7. FOOTING CONCRETE SHALL BE MINIMUM 2500 PSI @ 28 DAYS.
8. THIS DESIGN SHALL NOT BE USED FOR RETAINING EARTH.
9. MORTAR SHALL BE TYPE-S (MIN. 1800 PSI @ 28 DAYS) 1 PART TYPE I CEMENT; ONE HALF (1/2) PART LIME PUTTY OR HYDRATED LIME; FOUR AND ONE HALF (4 - 1/2) PARTS SAND (MAXIMUM).
10. GROUT SHALL BE A MINIMUM 2000 PSI AT 28 DAYS, ONE PART CEMENT; THREE PARTS SAND; TWO PARTS PEA GRAVEL.
11. EARTH COLORED MATERIALS SHALL BE USED WHERE RESIDENTIAL AREAS ARE AFFECTED.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	BLOCK FENCE GENERAL NOTES AND SPECIFICATIONS	M-7



REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	GUARD POST	M-8



LOT CORNER

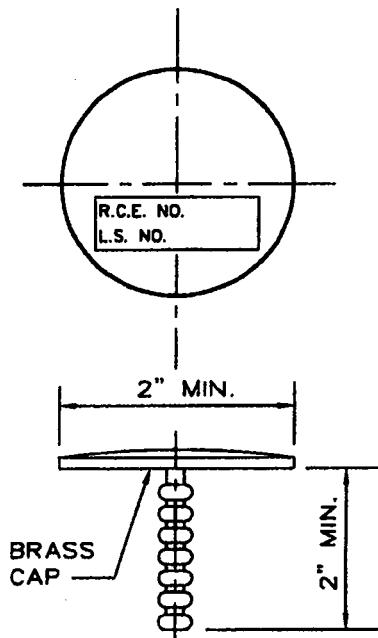
SEMI-DURABLE

DURABLE MONUMENT "A"

DURABLE MONUMENT "B"

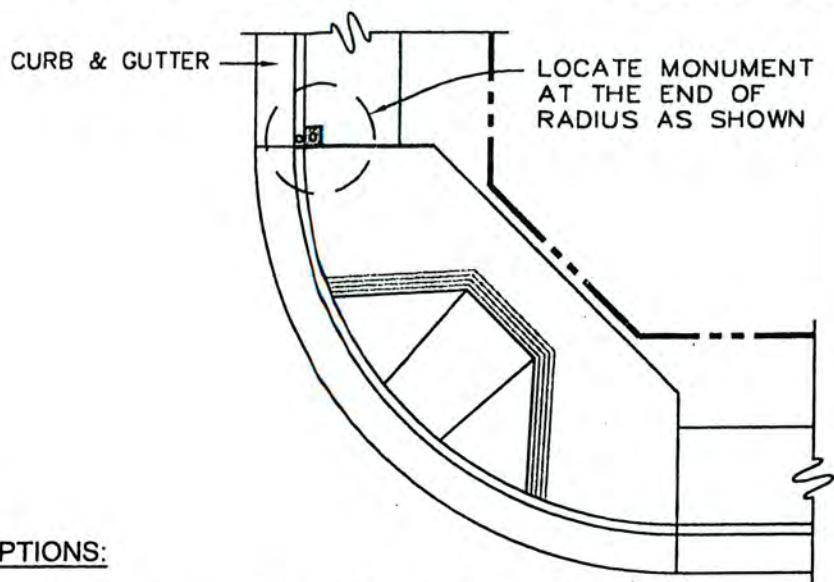
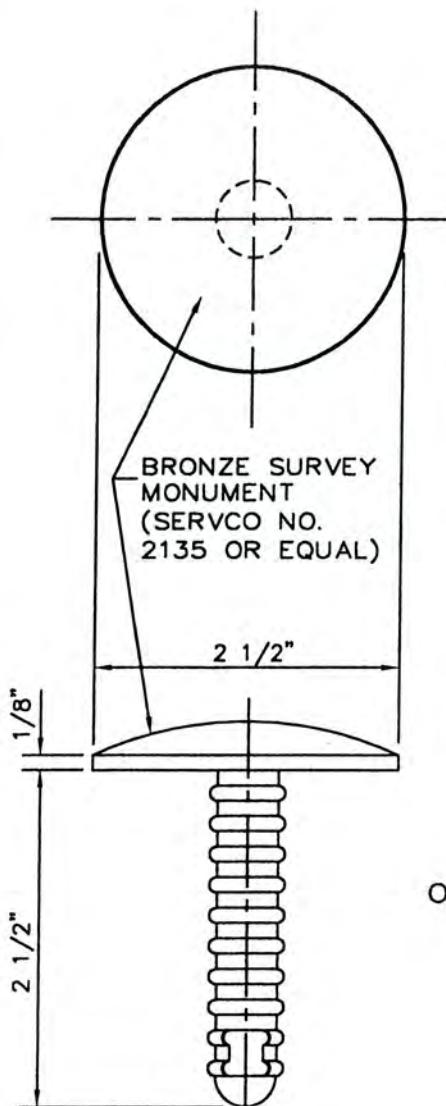
NOTES:

1. STATE LAW REQUIRES ALL CORNERS TO BE TAGGED WITH LAND SURVEYOR'S OR REGISTERED CIVIL ENGINEER'S NUMBER.
2. REGULAR-SHAPED SUBDIVISION SHALL HAVE BLOCK CORNERS MARKED WITH SEMI-DURABLE MONUMENTS OR DURABLE MONUMENT "B".
3. ALL INTERSECTION, ANGLE AND CURVE POINTS OF STREET CENTER LINES SHALL BE MARKED WITH DURABLE MONUMENTS "A", AFTER STREET SURFACING IS IN PLACE.



DETAIL - BRASS CAP

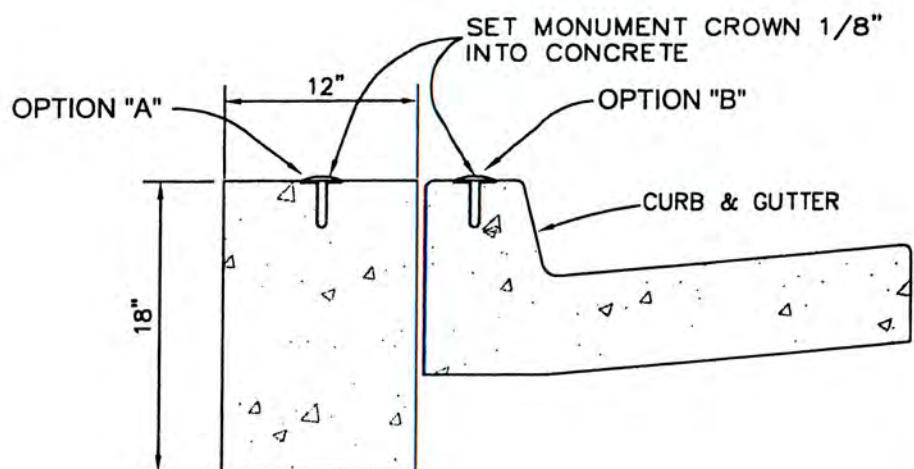
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
6-25-07			
	PROPERTY MONUMENT DETAILS		M-9



OPTIONS:

OPTION "A" = SET IN 12" DIA. CYLINDER OR 12" x 12" BASE, 18" DEEP.

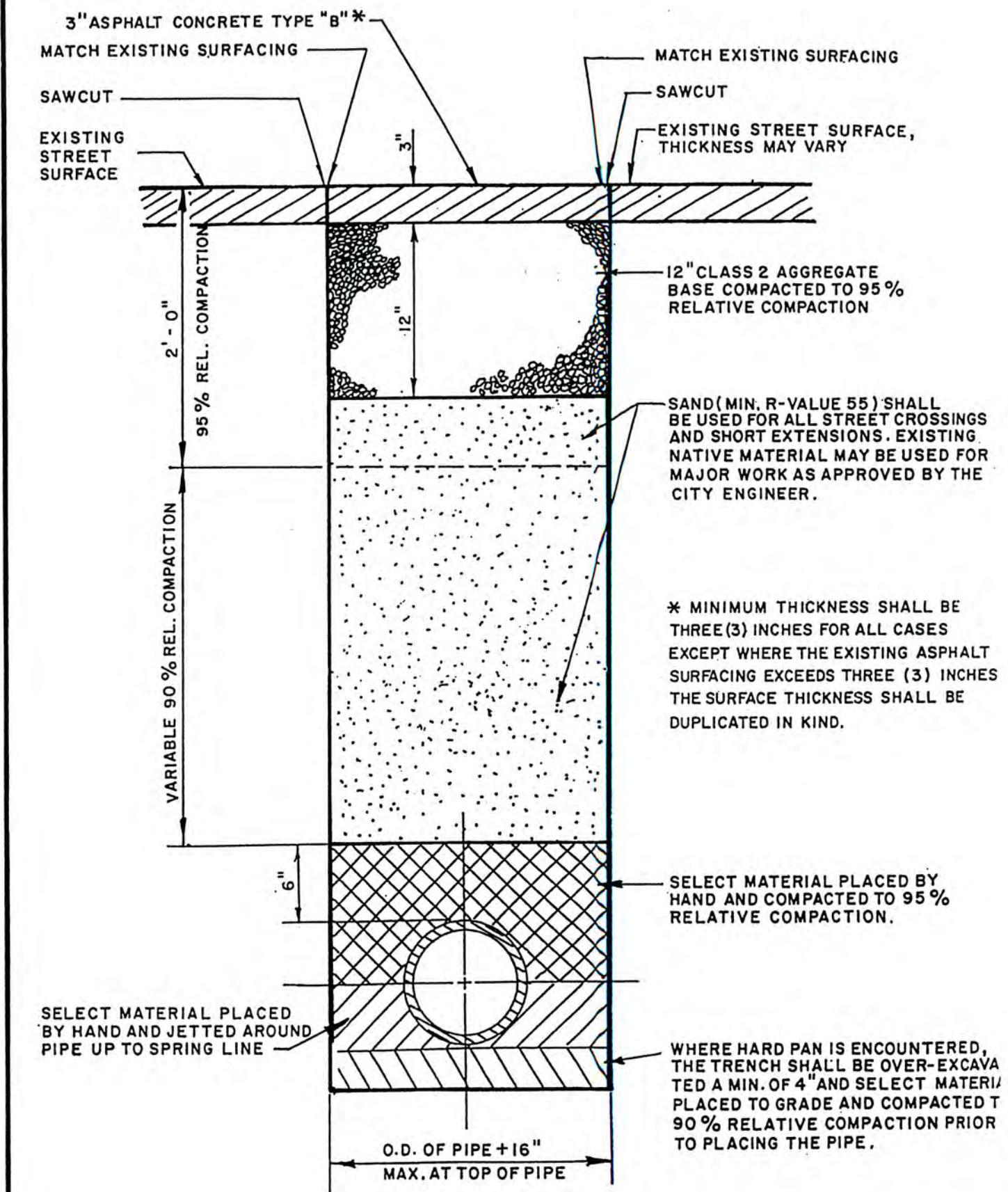
OPTION "B" = SET IN TOP OF CURB, IN TANGENT PORTION OF CURB.



Notes:

1. LOCATE BENCHMARKS AT THE NORTHEAST CORNER OF INTERSECTIONS APPROVED BY THE CITY ENGINEER, OR AS DIRECTED BY THE CITY ENGINEER.
2. COMPLETE NOTES SHOWING LOCATIONS, ELEVATION, AND FIELD CLOSURES SHALL BE FILED WITH THE CITY ENGINEER.
3. ELEVATION SHALL BE BASED ON THE CURRENT VERTICAL DATUM SPECIFIED BY THE CITY ENGINEER.
4. BENCHMARK MONUMENT SHALL BE BRONZE SURVEY MONUMENT (SERVCO NO. 2135 OR APPROVED EQUAL, AVAILABLE AT: SERVCO, 1-800-938-0606)
5. BENCHMARK MONUMENT SHALL BE STAMPED ONLY WITH AN IDENTIFIER CODE PROVIDED BY THE CITY ENGINEER.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
JULY 06			
	BENCH MARK		M-10



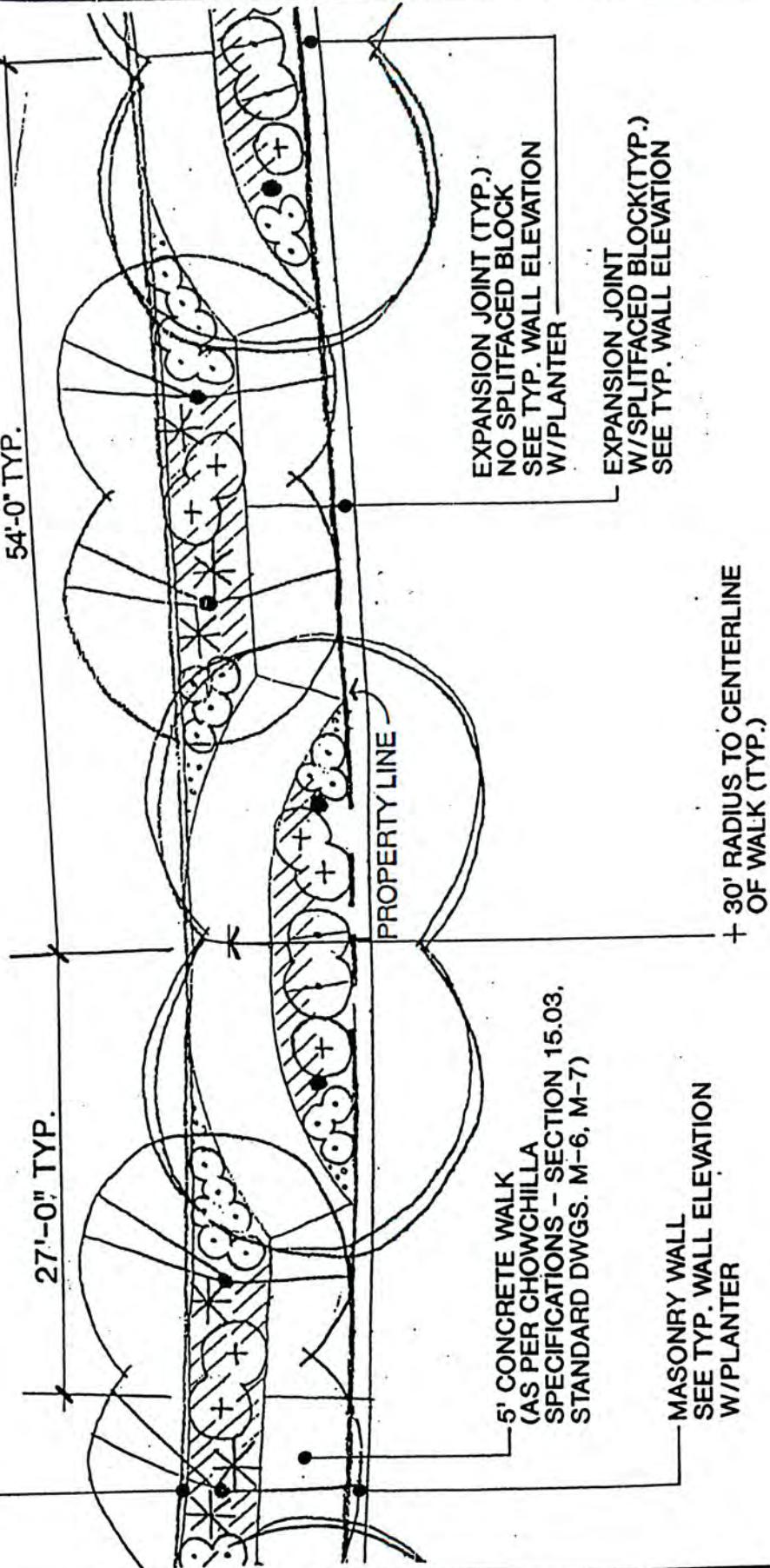
REVISION DATE	CITY OF CHOWCHILLA	Std. Dw
7-31-90	TRENCH BACKFILL & SURFACE REPLACEMENT	M-1

DESIGN REQUIREMENTS:

1. STANDARD DECORATIVE BLOCK FENCE SHALL CONFORM TO ALL OF THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE CITY OF CHOWCHILLA AND STANDARD DETAILS M-5, M-6, M-7 OF THE STANDARD SPECIFICATIONS.
2. ENGINEERING DESIGN SHALL BE CERTIFIED BY REGISTERED CIVIL ENGINEER

6" CONCRETE CURB
(AS PER CHOWCHILLA SPECIFICATIONS
-SECTION 15.03, STANDARD DWG. ST-10

SEE SUGGESTED PLANT LIST
FOR PLANT TYPES



REVISION DATE

CITY OF CHOWCHILLA

Std. Dwg.

TYP. SIDEWALK/PLANTING PLAN

M-12

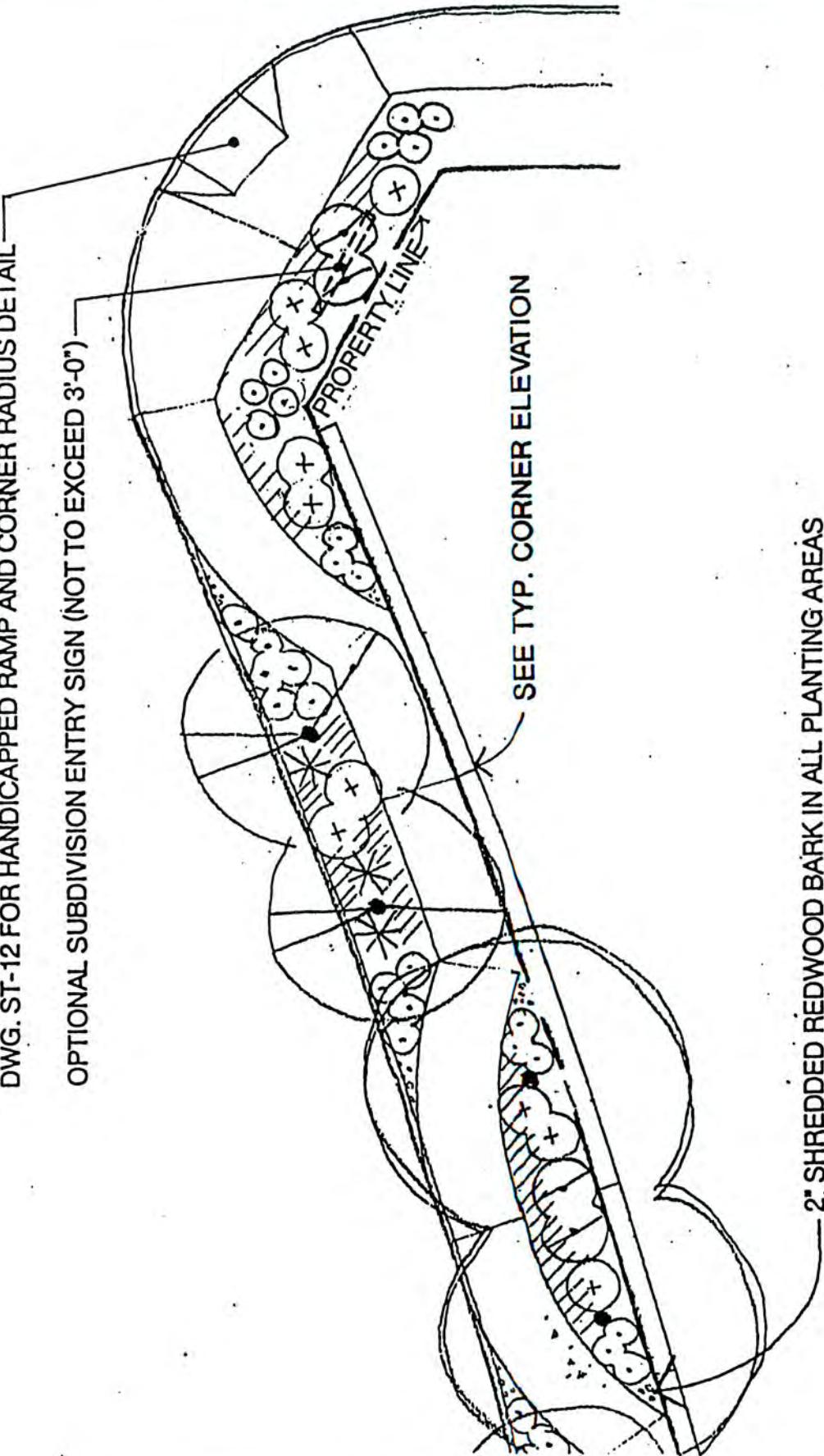
Scale 1" = 10'-0"

DESIGN REQUIREMENTS:

1. STANDARD DECORATIVE BLOCK FENCE SHALL CONFORM TO ALL OF THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE CITY OF CHOWCHILLA AND STANDARD DETAILS M-5, M-6, M-7 OF THE STANDARD SPECIFICATIONS.
2. ENGINEERING DESIGN SHALL BE CERTIFIED BY REGISTERED CIVIL ENGINEER

SEE CHOWCHILLA SPECIFICATIONS SECTION 15.03 AND DWG. ST-12 FOR HANDICAPPED RAMP AND CORNER RADIUS DETAIL

OPTIONAL SUBDIVISION ENTRY SIGN (NOT TO EXCEED 3'-0")

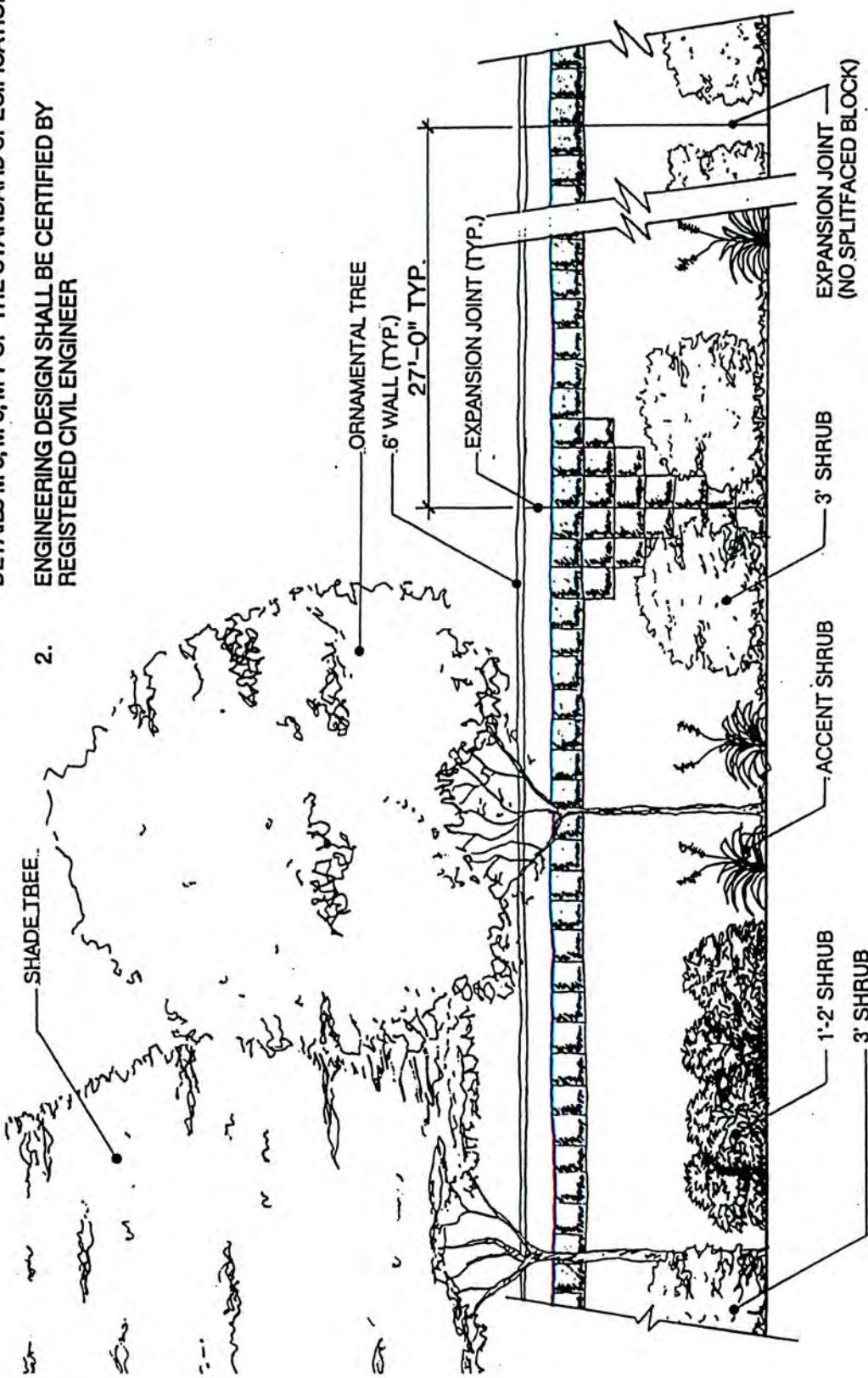


REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	TYPICAL CORNER PLAN	M-13

Scale 1" = 10'-0"

DESIGN REQUIREMENTS:

1. STANDARD DECORATIVE BLOCK FENCE SHALL CONFORM TO ALL OF THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE CITY OF CHOWCHILLA AND STANDARD DETAILS M-5, M-6, M-7 OF THE STANDARD SPECIFICATIONS.
2. ENGINEERING DESIGN SHALL BE CERTIFIED BY REGISTERED CIVIL ENGINEER



Scale 1/4" = 1'-0"

REVISION DATE

CITY OF CHOWCHILLA

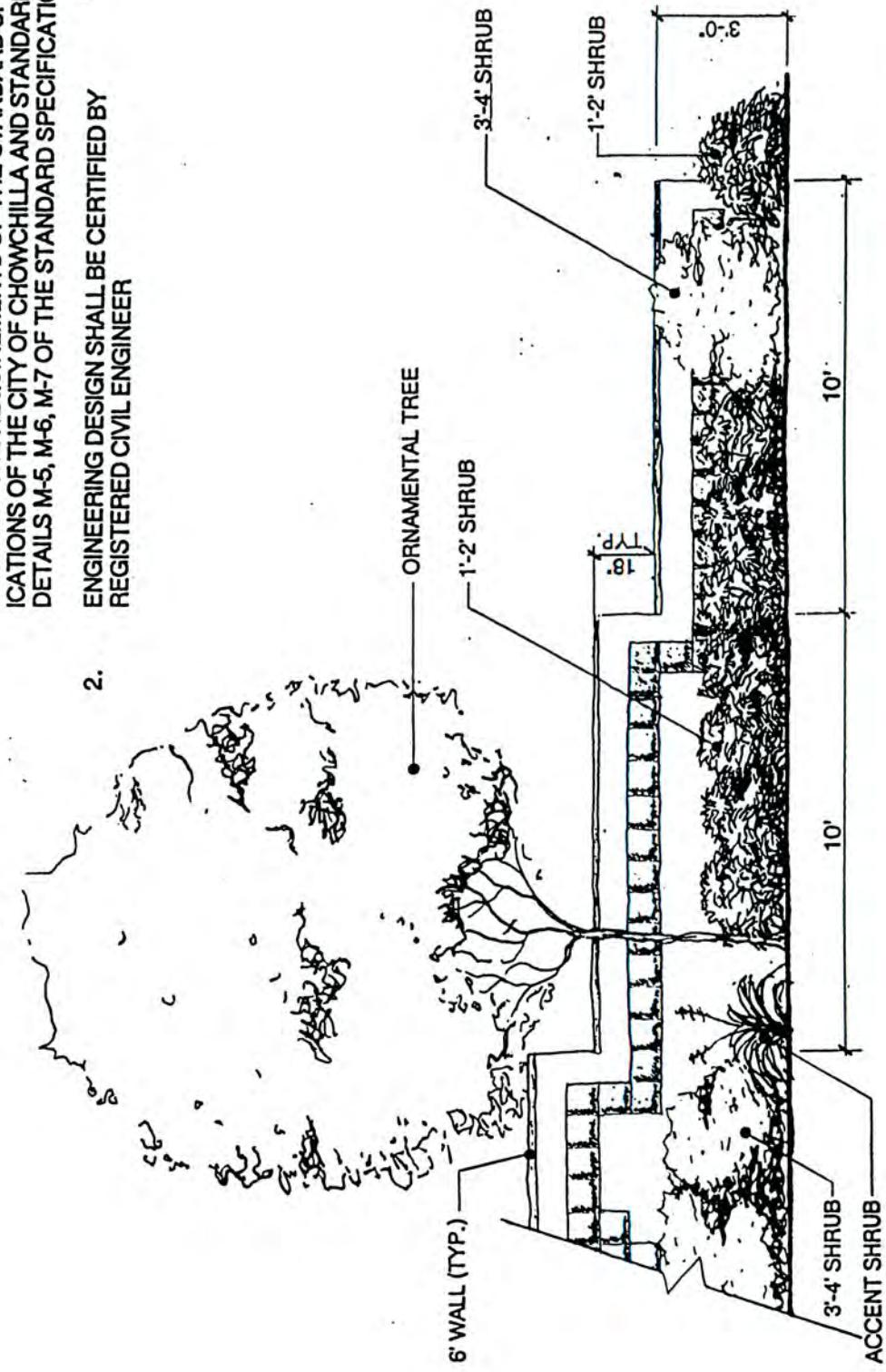
Std. Dwg.

TYP. WALL ELEVATION W/PLANTER

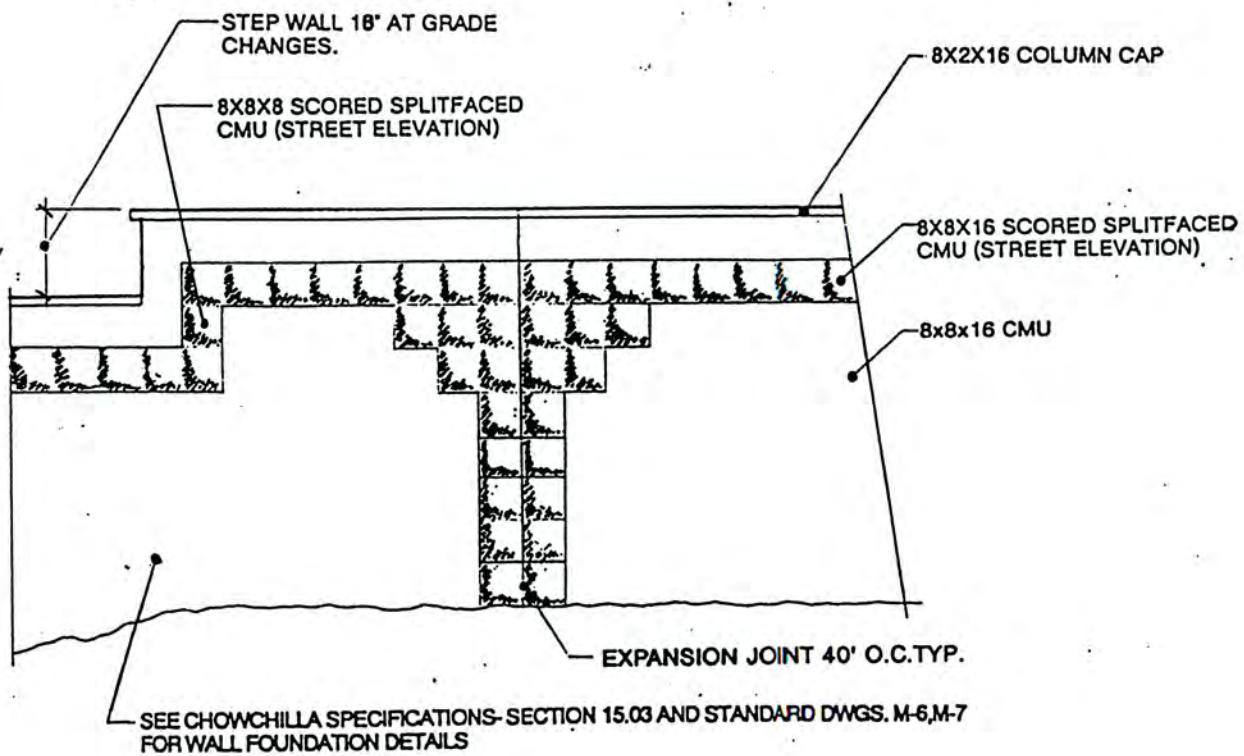
M-14

DESIGN REQUIREMENTS:

1. STANDARD DECORATIVE BLOCK FENCE SHALL CONFORM TO ALL OF THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE CITY OF CHOWCHILLA AND STANDARD DETAILS M-5, M-6, M-7 OF THE STANDARD SPECIFICATIONS.
2. ENGINEERING DESIGN SHALL BE CERTIFIED BY REGISTERED CIVIL ENGINEER



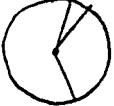
REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
	TYP. CORNER ELEVATION		M-15



DESIGN REQUIREMENTS:

1. STANDARD DECORATIVE BLOCK FENCE SHALL CONFORM TO ALL OF THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE CITY OF CHOWCHILLA AND STANDARD DETAILS M-5, M-6, M-7 OF THE STANDARD SPECIFICATIONS.
2. ENGINEERING DESIGN SHALL BE CERTIFIED BY REGISTERED CIVIL ENGINEER

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	TYP. WALL ELEVATION	M-16

SYMBOL	TYPE	SUGGESTED PLANTS	COMMON NAME	SIZE
	SHADE TREE	CINNAMOMUM CAMPHORA FRAXINUS OXYCARPA 'RAYWOOD' PISTACIA CHINENSIS ZELKOVA SERRATA	CAMPHOR TREE RAYWOOD ASH CHINESE PISTACHE ZELKOVA	15 GAL.
	ORNAMENTAL TREE	PRUNUS VESUVIUS KRAUTERI PYRUS CALLERYANA 'BRADFORD' PYRUS CALLERYANA 'ARISTOCRAT'	FLOWERING CHERRY BRADFORD PEAR ARISTOCRAT PEAR	15 GAL.
	3' SHRUB	ESCALLONIA 'NEWPORT DWARF' NANDINA DOMESTICA	ESCALLONIA HEAVENLY BAMBOO	1 GAL.
	1'-2' SHRUB	PITTOSPORUM T. 'WHEELER DWRF' RAPHIOLEPIS INDICA 'BALLERINA'	DWARF PITTOSPORUM DWARF RAPHIOLEPIS	1 GAL.
	GROUNDCOVER	POTENTILLA Verna VERBENA PERUVIANA VINCA MINOR	CINQUEFOIL VERBENA PERIWINKLE	1 GAL.
	ACCENT SHRUB	BERBERIS T. 'CRIMSON PYGMY' MORAEA BICOLOR YUCCA FLACCIDA	CRIMSON PYGMY BARBERRY FORTNIGHT LILY YUCCA	1 GAL.
	FLOWERING SHRUB	LANTANA MONTEVIDENSIS NERIUM OLEANDER	LANTANA PETITE PINK OLEANDER	1 GAL.

Notes:

AUTOMATIC DRIP IRRIGATION SYSTEM TO BE USED
IN ALL PLANTING AREAS

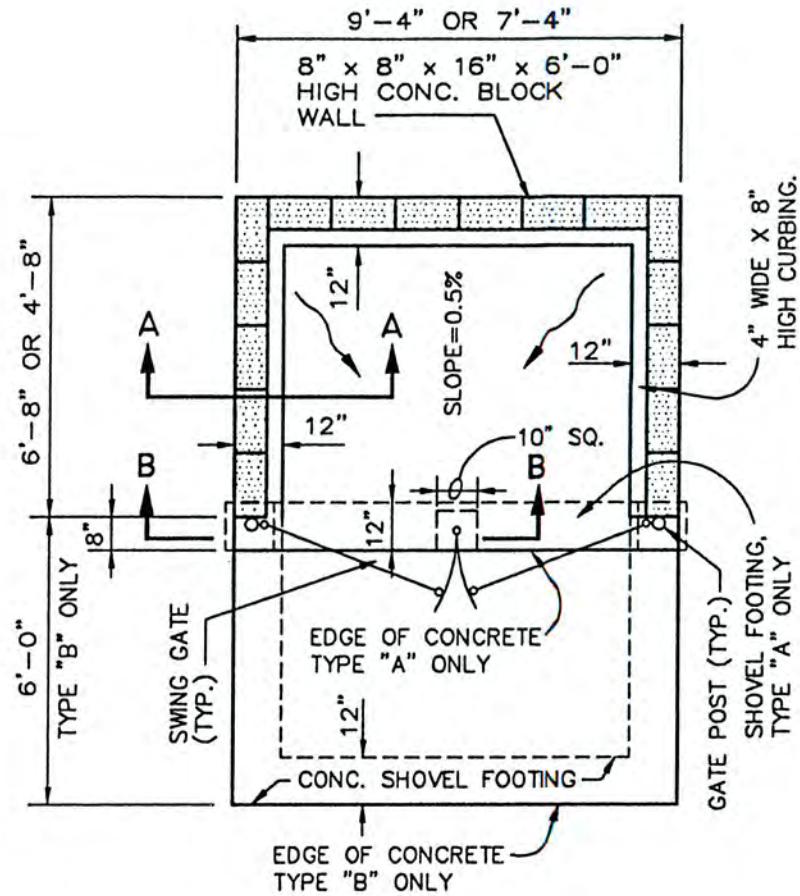
IRRIGATION SYSTEM SHALL MEET CHOWCHILLA CITY STANDARDS

REVISION DATE	CITY OF CHOWCHILLA		Std. Dwg.
SUGGESTED PLANT LIST		M-17	

GENERAL NOTES AND SPECIFICATIONS

1. ALL CONSTRUCTION SHALL COMPLY WITH THE UNIFORM BUILDING CODE.
2. GROUT ALL CELLS CONTAINING REINFORCING STEEL.
3. ALL MASONRY UNITS SHALL COMPLY WITH THE LATEST ADOPTED UNIFORM BUILDING CODE, U.B.C. ST. 24-4, AND ASTM C-90, GRADE N.
4. ALL MASONRY WALLS SHALL BE INSPECTED BY THE CITY ENGINEER.
5. DEPTHS OF FOOTINGS ARE INTO NATURAL UNDISTURBED SOIL OR TESTED AND APPROVED COMPACTED FILL.
6. REINFORCING STEEL SHALL BE DEFORMED BARS MINIMUM GRADE 40.
7. FOOTING CONCRETE SHALL BE MINIMUM 2500 PSI @ 28 DAYS.
8. THIS DESIGN SHALL NOT BE USED FOR RETAINING EARTH.
9. MORTAR SHALL BE TYPE-S (MIN. 1800 PSI @ 28 DAYS) 1 PART TYPE 1 CEMENT, ONE HALF (1/2) PART LIME PUTTY OR HYDRATED LIME, FOUR AND ONE HALF (4 1/2) PARTS SAND MAXIMUM.
10. GROUT SHALL BE A MINIMUM 2000 PSI @ 28 DAYS, ONE PART CEMENT, THREE PARTS SAND, TWO PARTS PEA GRAVEL.
11. EARTH COLORED MATERIALS SHALL BE USED WHERE RESIDENTIAL AREAS ARE AFFECTED.
12. CHAIN LINK GATE SHALL HAVE STANDARD FORK TYPE LATCH.E
13. CHAIN LINK FABRIC SHALL BE 11 GA. MIN. AND SIZED FOR LATH INSERTS, REDWOOD, CEDAR OR AS APPROVED BY CITY ENGINEER.
14. GATES FOR OPENING LARGER THAN 5'-0" SHALL BE DOUBLE SWING AND SHALL HAVE CENTER PLUNGER STOP ON ONE LEAF.
15. SEE CHAIN LINK FENCE STANDARD M-4 FOR AND ADDITIONAL REQUIREMENTS.
16. CONTRACTOR SHALL VERIFY SIZE OF OPENING IN FIELD.
17. TRASH ENCLOSURE SIZE TO BE APPROVED BY CITY ENGINEER AND REFUSE HAULER.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
5-28-91			M-18
2-14-00			1 OF 5
	COMMERCIAL & INDUSTRIAL TRASH ENCLOSURE		



TRASH ENCLOSURE PLAN TYPE "A" & "B"

SCALE: 1/4" = 1'- 0"

TRASH ENCLOSURE SIZE

TYPE "A" TRASH CANS ONLY
(7'- 4" X 4'- 8")

TYPE "B" TRASH CANS OR SINGLE BIN.
(9'- 4" X 6' - 8")

TRASH ENCLOSURE SIZE TO BE APPROVED
BY CITY ENGINEER AND REFUSE HAULER.

REVISION DATE

CITY OF CHOWCHILLA

STD.DWG.

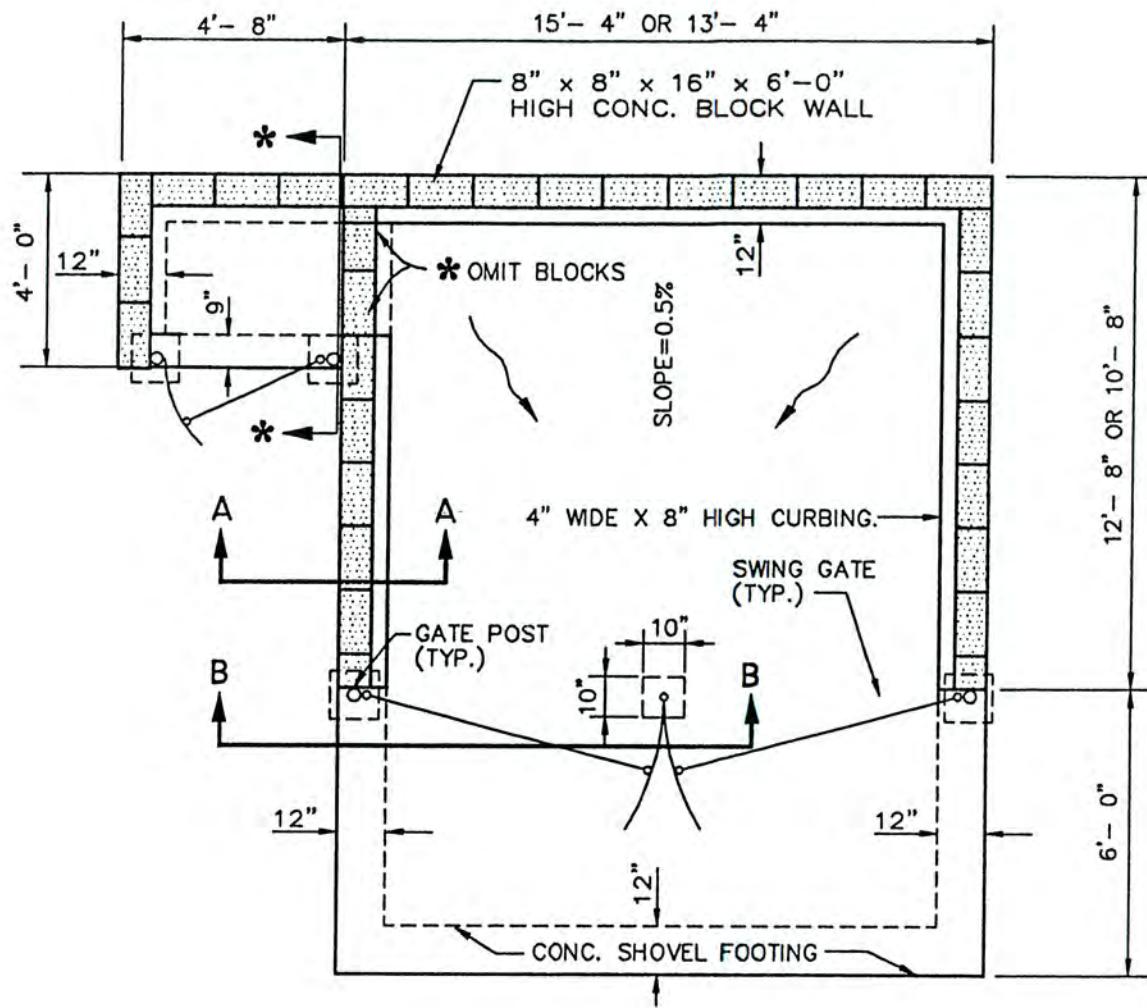
5-28-91

COMMERCIAL & INDUSTRIAL
TRASH ENCLOSURE

M-18

2-14-00

2 OF 5



* NOTE

OPTIONAL CONSTRUCTION, WALK
ACCESS TRASH ENCLOSURE.

TRASH ENCLOSURE PLAN TYPE "C" & "D"

SCALE: $1/4"$ = $1'-0"$

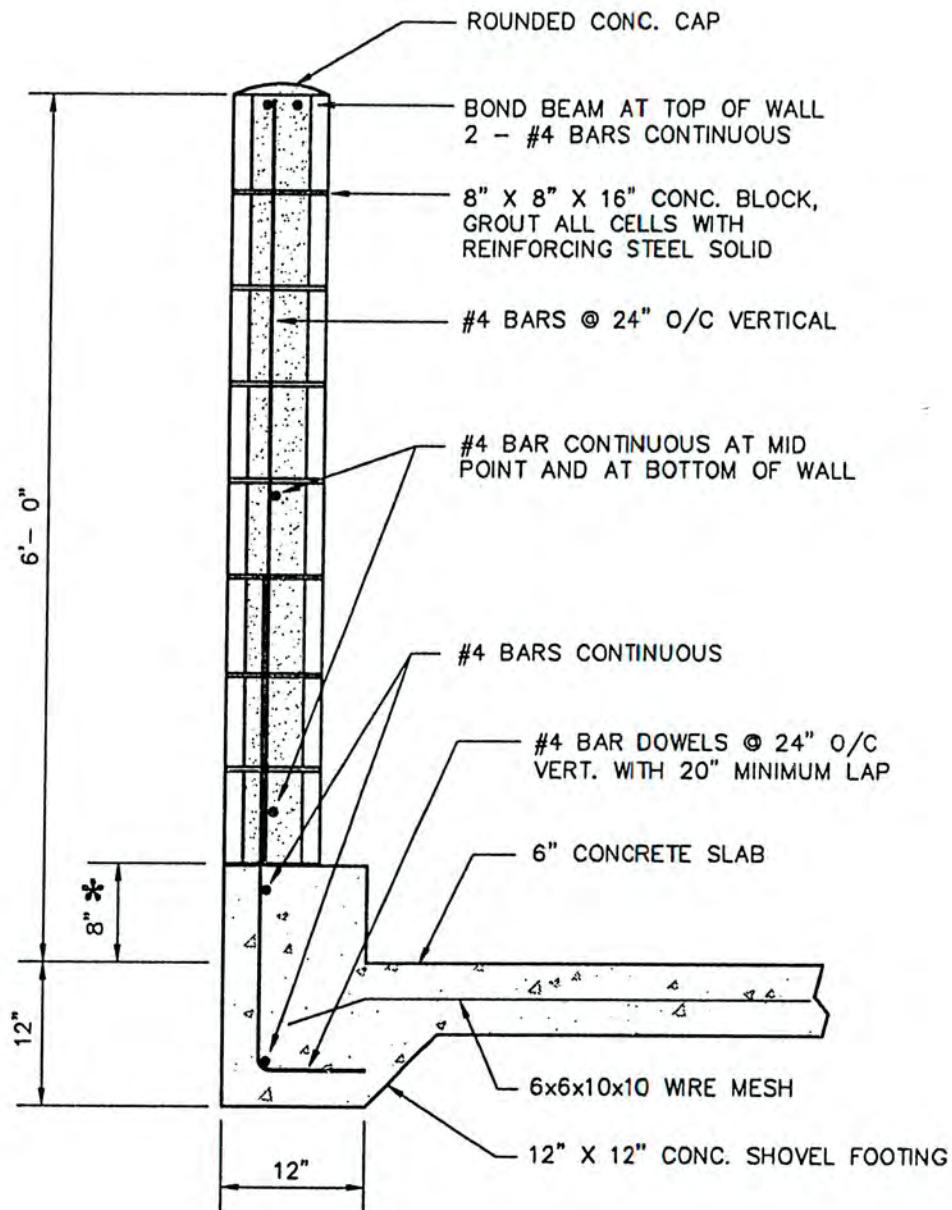
TRASH ENCLOSURE SIZE

TYPE "C" MULTIPLE BINS.
(13'- 4" X 10'- 8")

TYPE "D" MULTIPLE BINS.
(15'-4" X 12'-8")

TRASH ENCLOSURE SIZE TO BE APPROVED
BY CITY ENGINEER AND REFUSE HAULER.

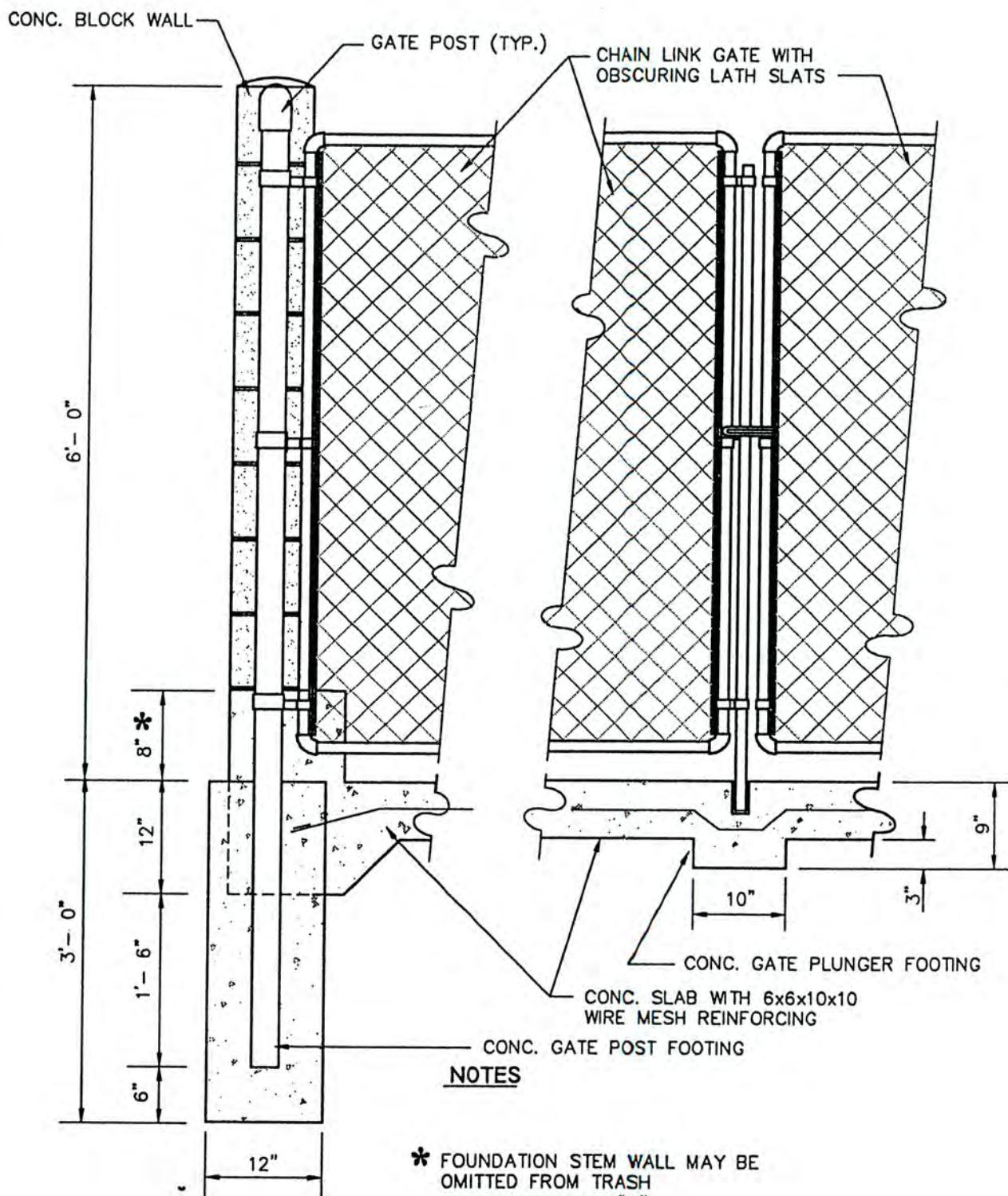
REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
5-28-91	COMMERCIAL & INDUSTRIAL	M-18
2-14-00	TRASH ENCLOSURE	3 OF 5



BLOCK WALL SECTION A - A

SCALE: 3/4" = 1' - 0"

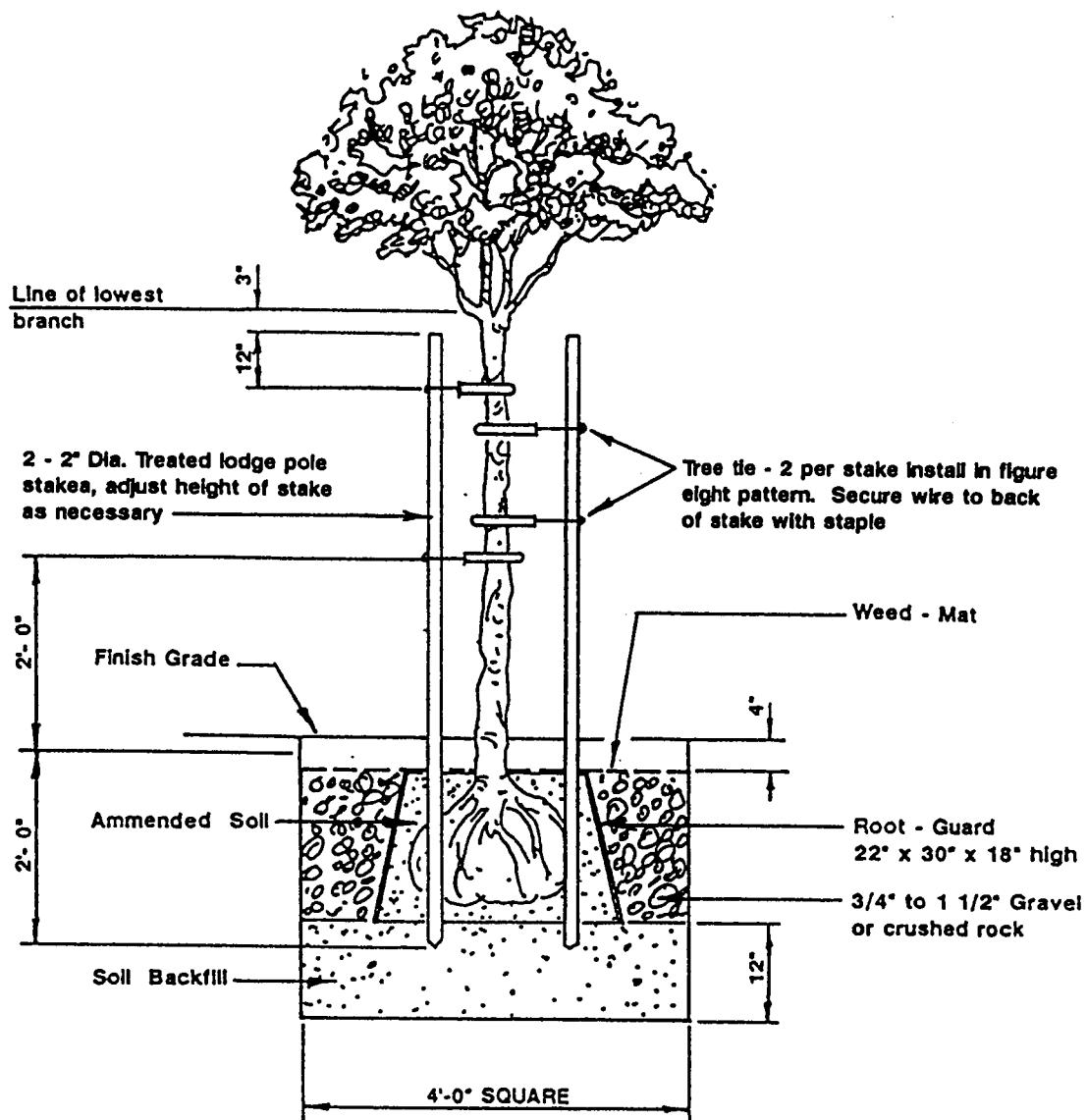
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
5-28-91			M-18
2-14-00			4 OF 5
	COMMERCIAL & INDUSTRIAL TRASH ENCLOSURE		



GATE SECTION B - B

SCALE: 3/4" = 1'- 0"

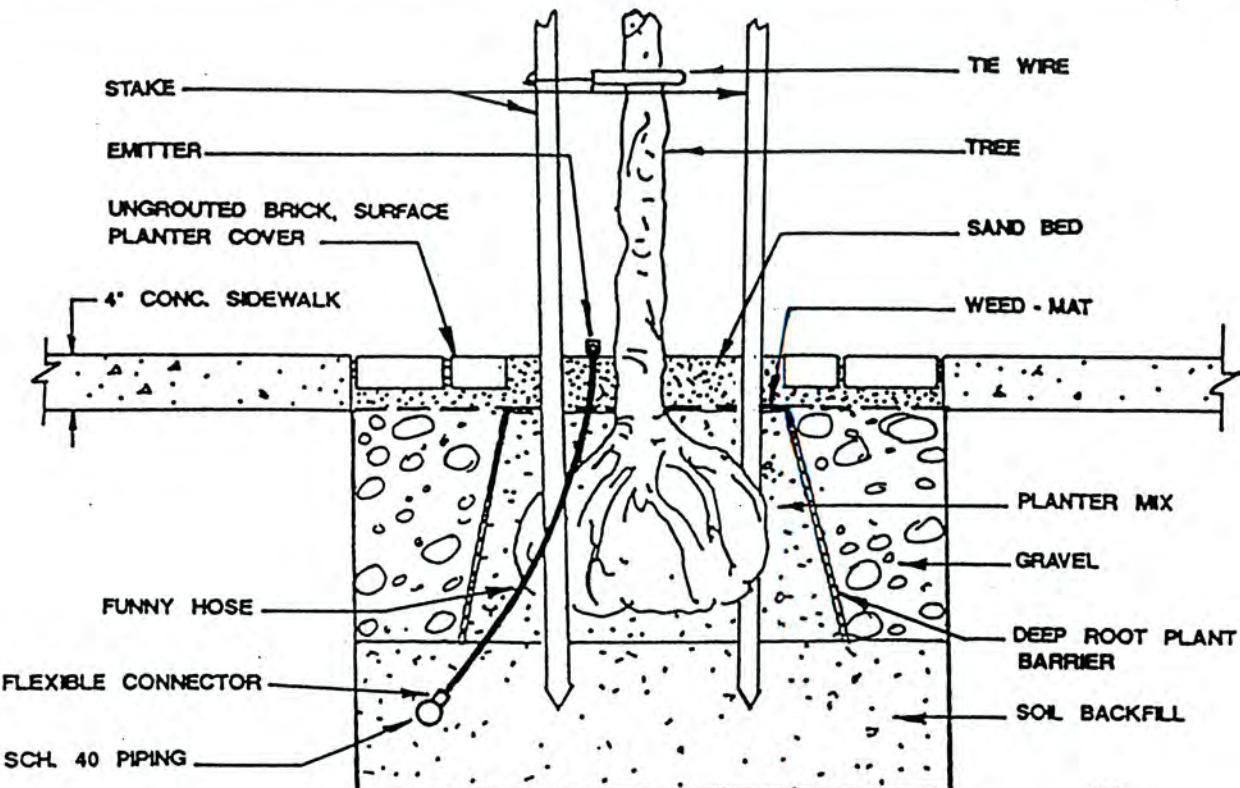
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
5-28-91			M-18
2-14-00	COMMERCIAL & INDUSTRIAL TRASH ENCLOSURE		5 OF 5



NOTES

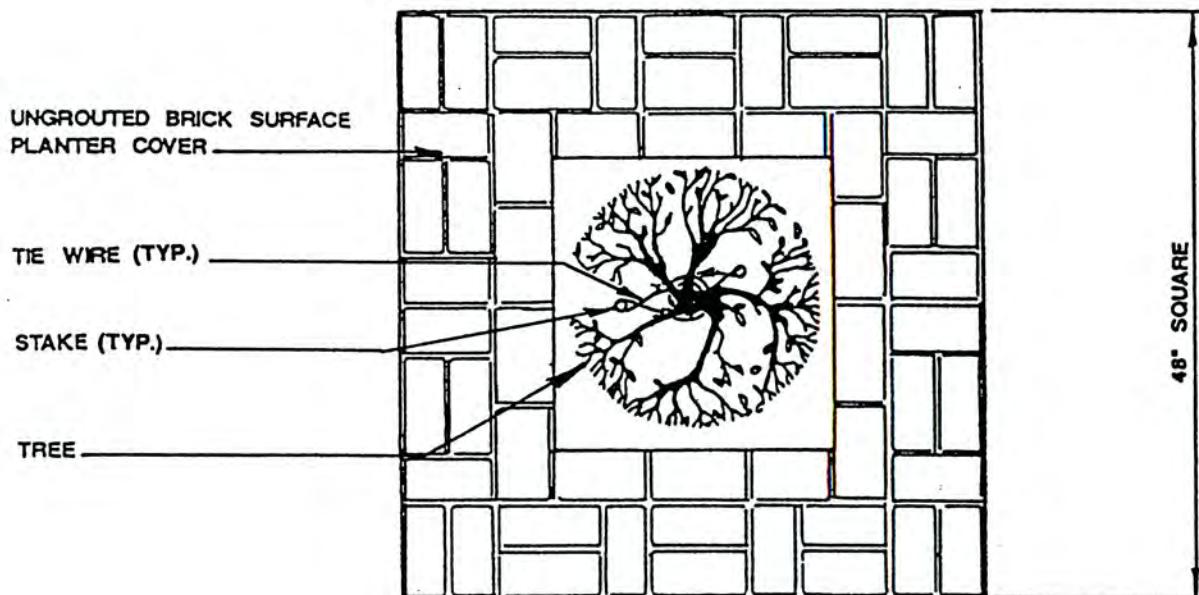
1. SEE SPECIFICATIONS SECTION 28.
2. SEE SUGGESTED PLANT LIST Std. Dwg. M - 17.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	STREET TREE WELL	M - 19



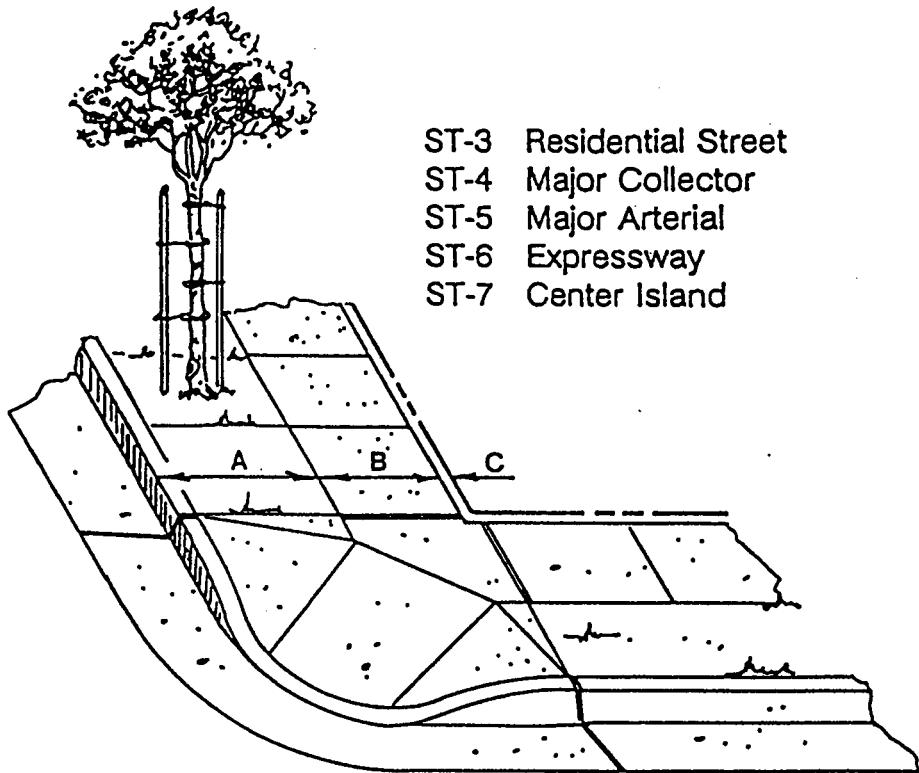
NOTES

1. SEE SPECIFICATIONS SECTION 28.
2. SEE SUGGESTED PLANT LIST, Std. Dwg. M - 17.
3. SEE TREE WELL, Std. Dwg. M - 19.

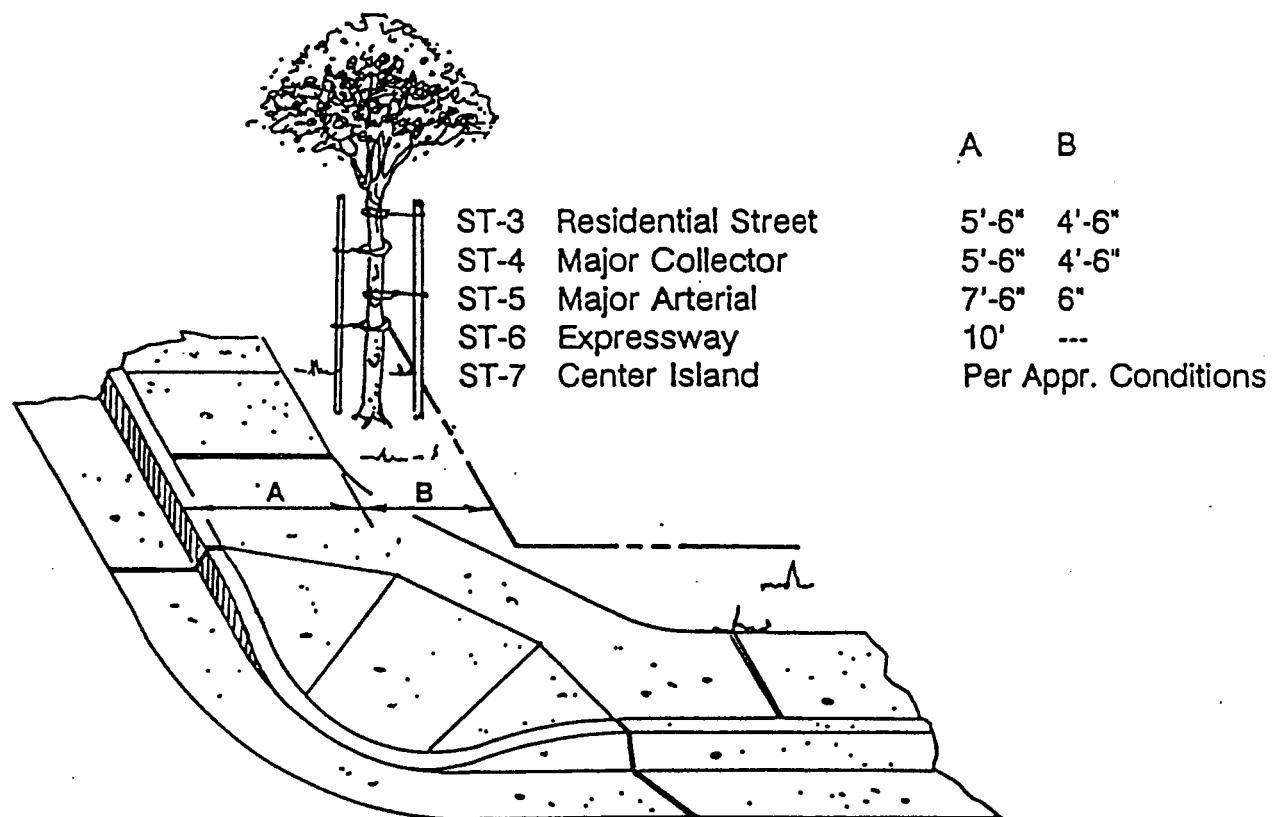


COMMON OR PAVING BRICK PLANTER COVER, REQUIRED ONLY IN COMMERCIAL AREAS OR WHERE SIDEWALK EXISTS. BRICK COVER PATTERN SHALL BE AS SHOWN ABOVE, ALTERNATIVES TO THE BRICK COVER WILL BE ACCEPTABLE WITH THE APPROVAL OF THE CITY.

REVISION DATE	CITY OF CHOWCHILLA	Std. Dwg.
	COMMERCIAL TREE WELL WITH AUTOMATIC IRRIGATION SYSTEM	M - 20



CURB, GUTTER AND SIDEWALK WITH PARK STRIP



CURB & GUTTER WITH MONOLITHIC SIDEWALK

REVISION DATE	CITY OF CHOWCHILLA STREET TREE LOCATION	Std. Dwg. M - 21

DECORATIVE REINFORCED UNIT MASONRY WALL

1.0 GENERAL

- A. Concrete Block (Shall be CAL-LOC Mortarless Masonry Units or approved Equal.)
- B. Grout
- C. Reinforcement
- D. Caisson footings
- E. Engineering

1.01 CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with referenced standards as follows:

1. Size: Standard CAL-LOK Mortarless Masonry Units with nominal face dimensions of 16 x 8 inches and nominal depth of 6 inches. The CAL-LOK Mortarless Masonry Units are manufactured with grooves and ridges to allow for the "tongue and groove" placement without the use of mortar as is required in conventional masonry. Each unit is also a "bond beam" unit to allow for the placement of reinforcement and to facilitate the flow of grout to insure a solid pour throughout.
2. Load-Bearing Units: ASTM 90
 - i. Hollow Block
 - ii. Type I: Moisture-controlled; lightweight, Grade N f'm=1500 PSI.
 - iii. Pattern: Field Block to be Light Tan "Random Score" Split Face block front side and Comb Face back side. Accent Block to be Dark Tan Split Face front side and Comb-faced back side.
 - iv. Cornice Cap: 12" Natural Cornice Cap for top of wall.
 - v. Color:
 1. Field Block: Light T 381
 2. Accent Block: Dark Tan 282
 3. Cornice Cap: Natural (gray) with gray mortar.

1.02 GROUT

B. Grout Mix

1. Engineered Masonry: 6 Sack Mix Design to insure 1250 PSI @7 days and 2000 PSI @28 days.
 - i. Provide premixed type in accordance with ASTM C 94.
 - ii. Concrete Block Masonry Units shall be dry and clean before grout placement.
 - iii. SOLID GROUT ALL CELLS

1.03 REINFORCEMENT

C. Reinforcing Steel: ASTM A 615

1. Minimum Grade 40 Deformed bars.
2. Size as per schedule determined by Structural Engineer for specified heights.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
8-08-05		DECORATIVE MASONRY WALL	M-22
		FOR SANTA CRUZ BOULEVARD	
			SHT. 1 OF 5

1.04 FOOTINGS

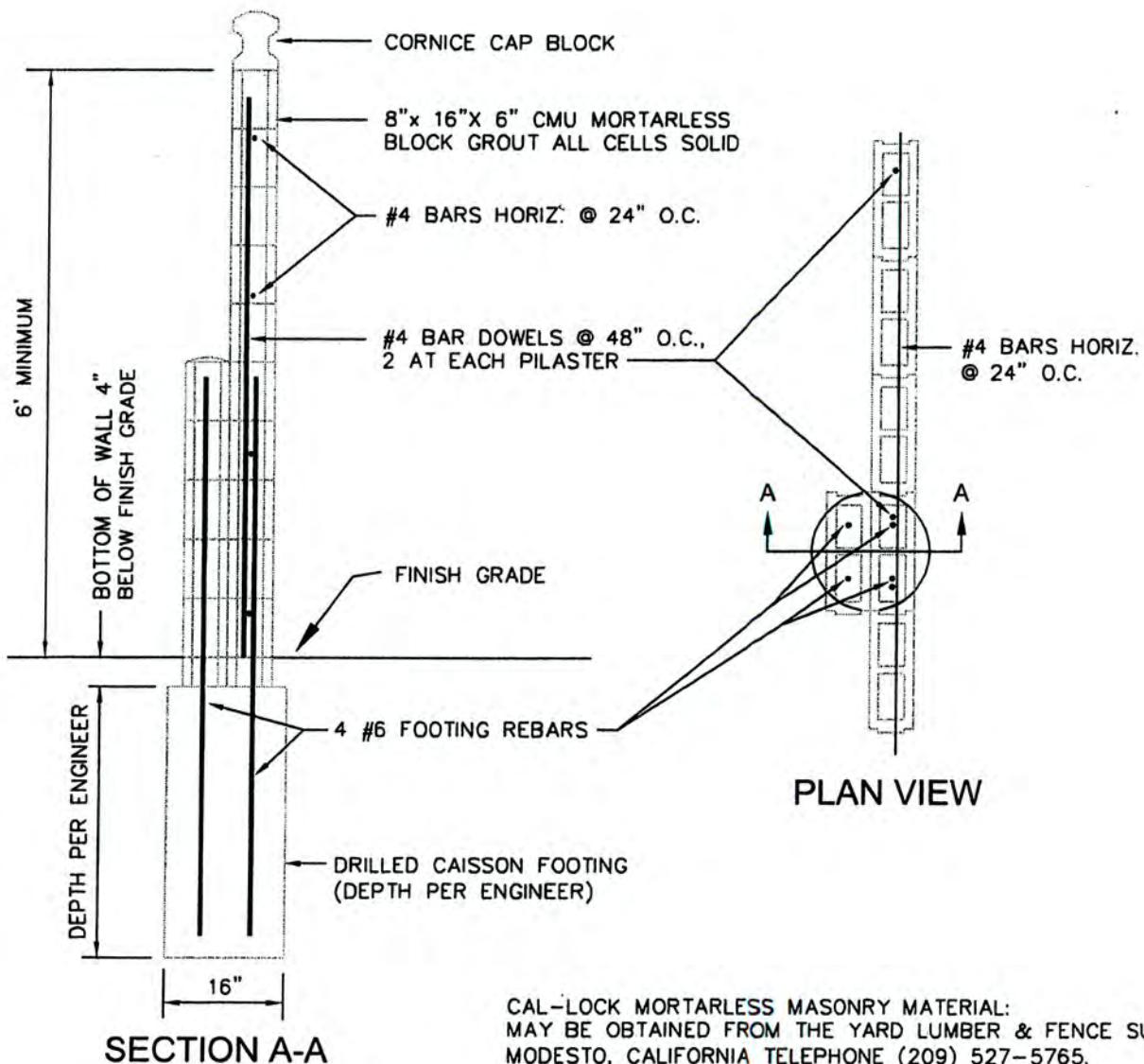
D. Concrete Mix

1. 5 Sack Mix Design minimum to insure 2000 PSI @28 days.
2. Portland Cement, Type II, ASTM C 150.
3. Aggregate 1 1/2" Maximum, ASTM C 33.
4. Water clean and drinkable.

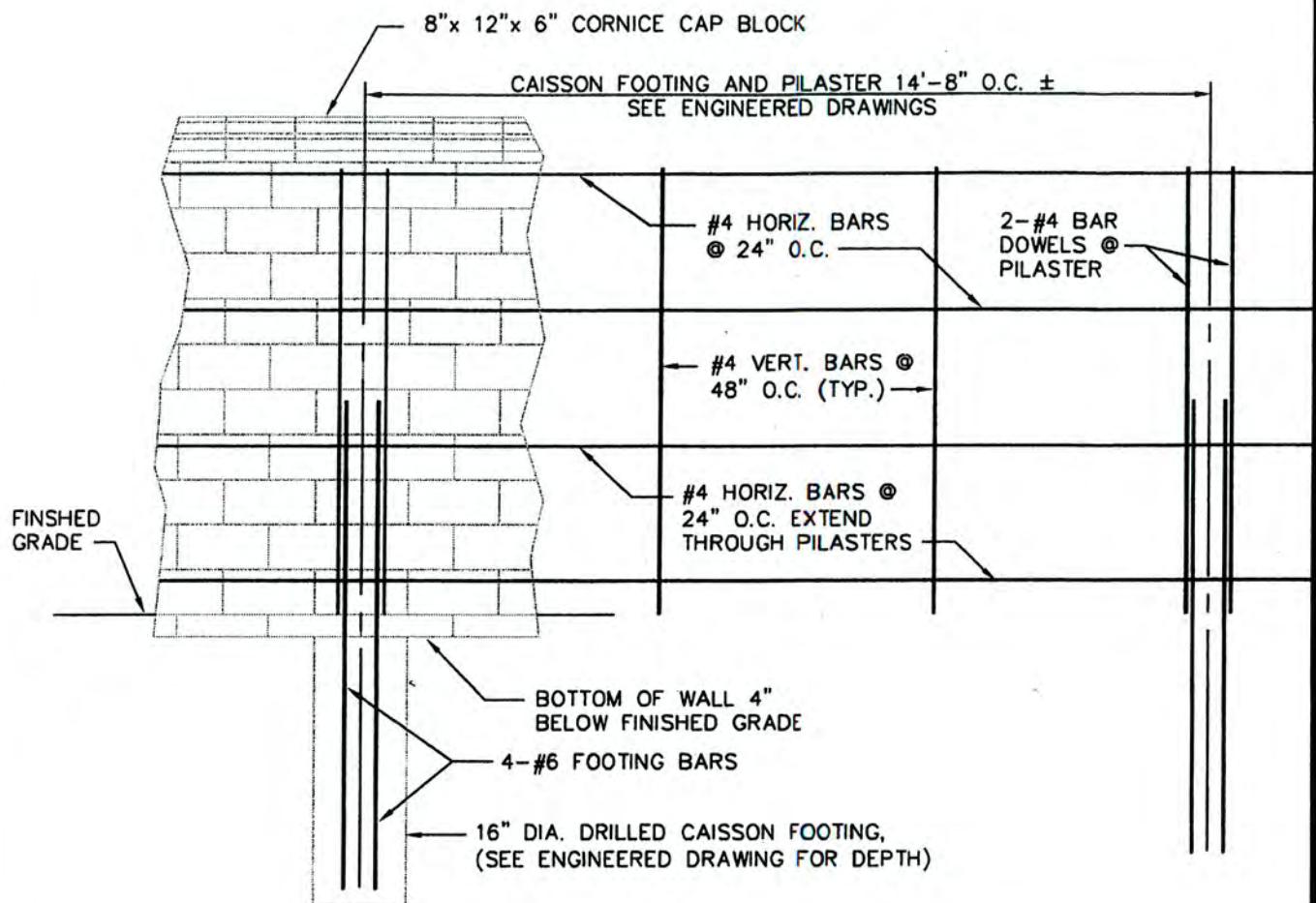
1.05 ENGINEERING

E. Site Specific

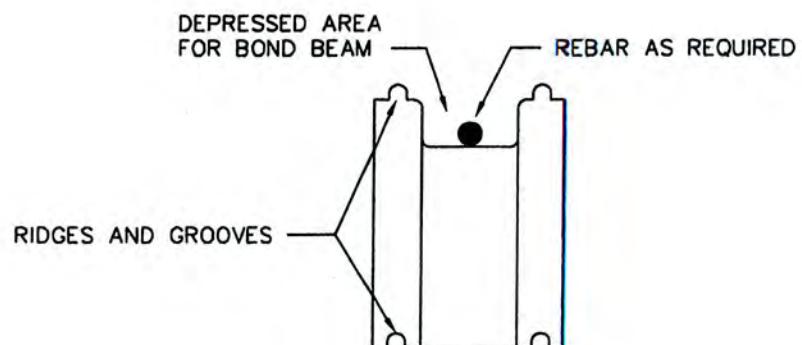
1. Furnished by a Registered Professional Structural Engineer, Licensed in the State of California.
2. All work to be performed in accordance with applicable sections of the California Building Code (CBC), 2001 Edition.



REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
8-08-05		DECORATIVE MASONRY WALL FOR SANTA CRUZ BOULEVARD	M-22
			SHT. 2 OF 5

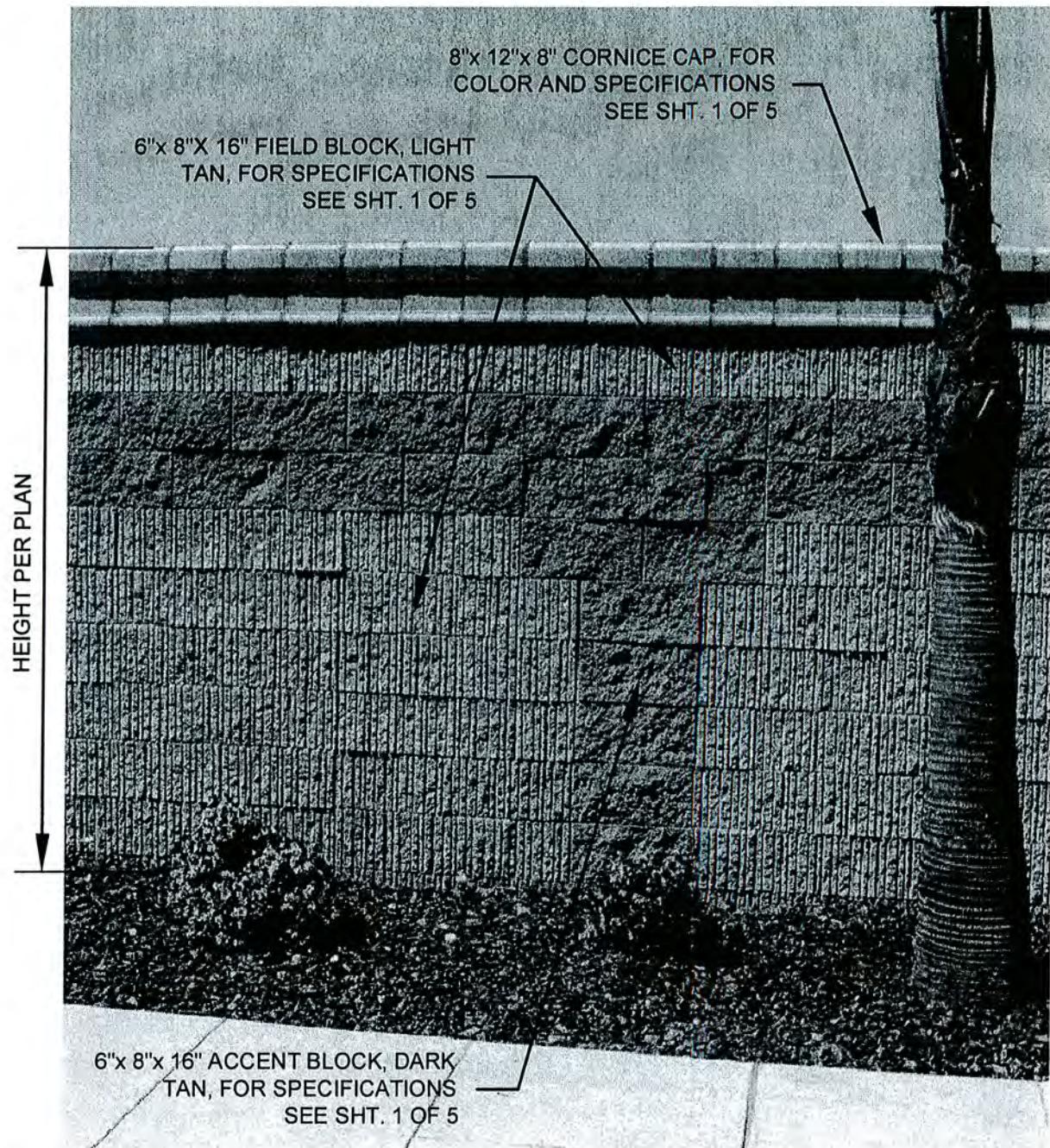


WALL ELEVATION WITH REINFORCING



BLOCK END VIEW

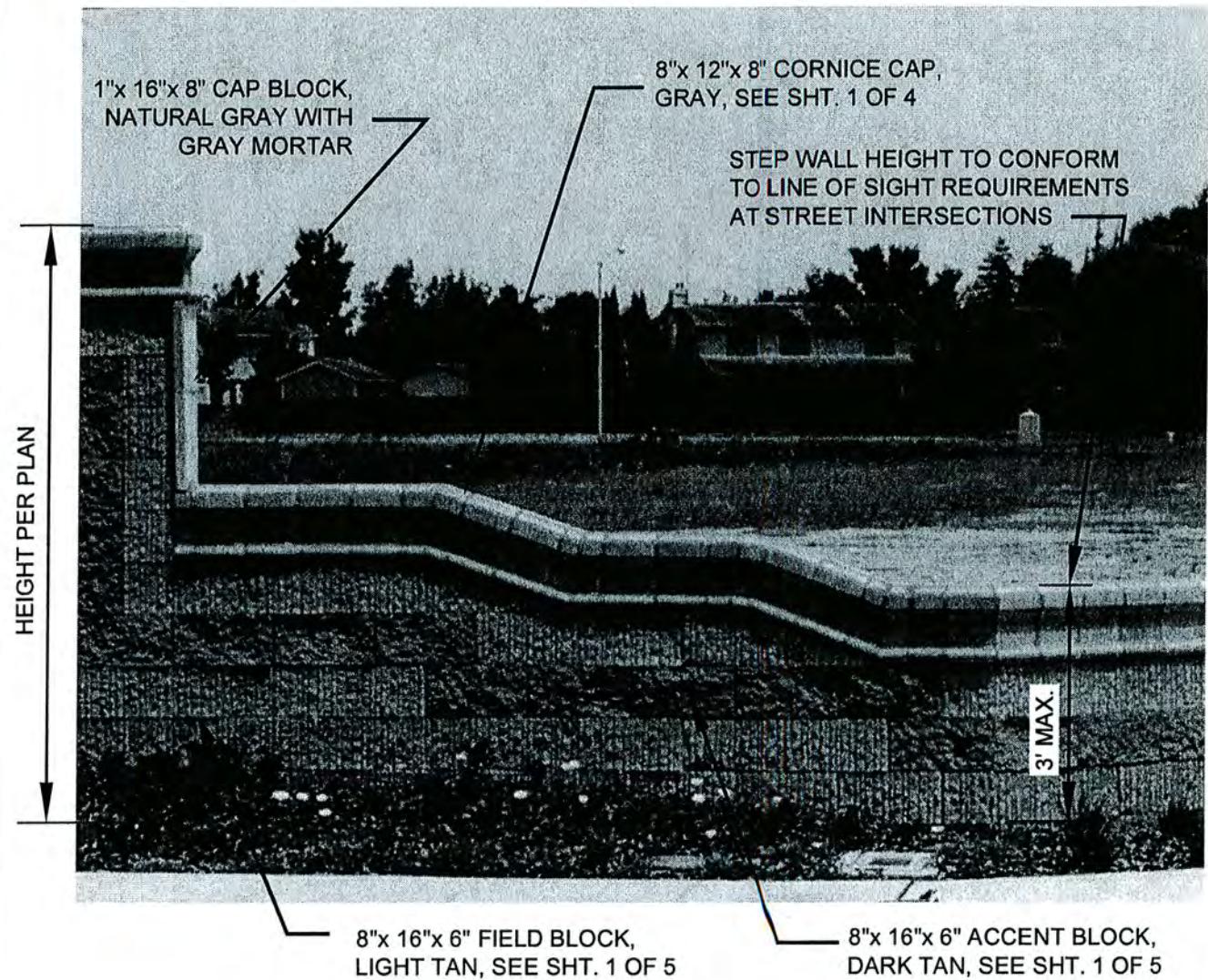
REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
8-08-05		DECORATIVE MASONRY WALL FOR SANTA CRUZ BOULEVARD	M-22
			SHT. 3 OF 5



NOTES:

1. CONTRACTOR SHALL SUPPLY SHOP DRAWINGS OF PROPOSED BLOCK WALL, SHOWING PROPOSED PATTERN FOR APPROVAL BY CITY OF CHOWCHILLA.
2. SHOP DRAWING SHALL SHOWING PROPOSED END TREATMENT OF WALL AT INTERSECTIONS, ADDRESS WALL HEIGHT IN RELATIONSHIP TO VEHICULAR LINE OF SIGHT.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
8-08-05		DECORATIVE MASONRY WALL FOR SANTA CRUZ BOULEVARD	M-22
			SHT. 4 OF 5

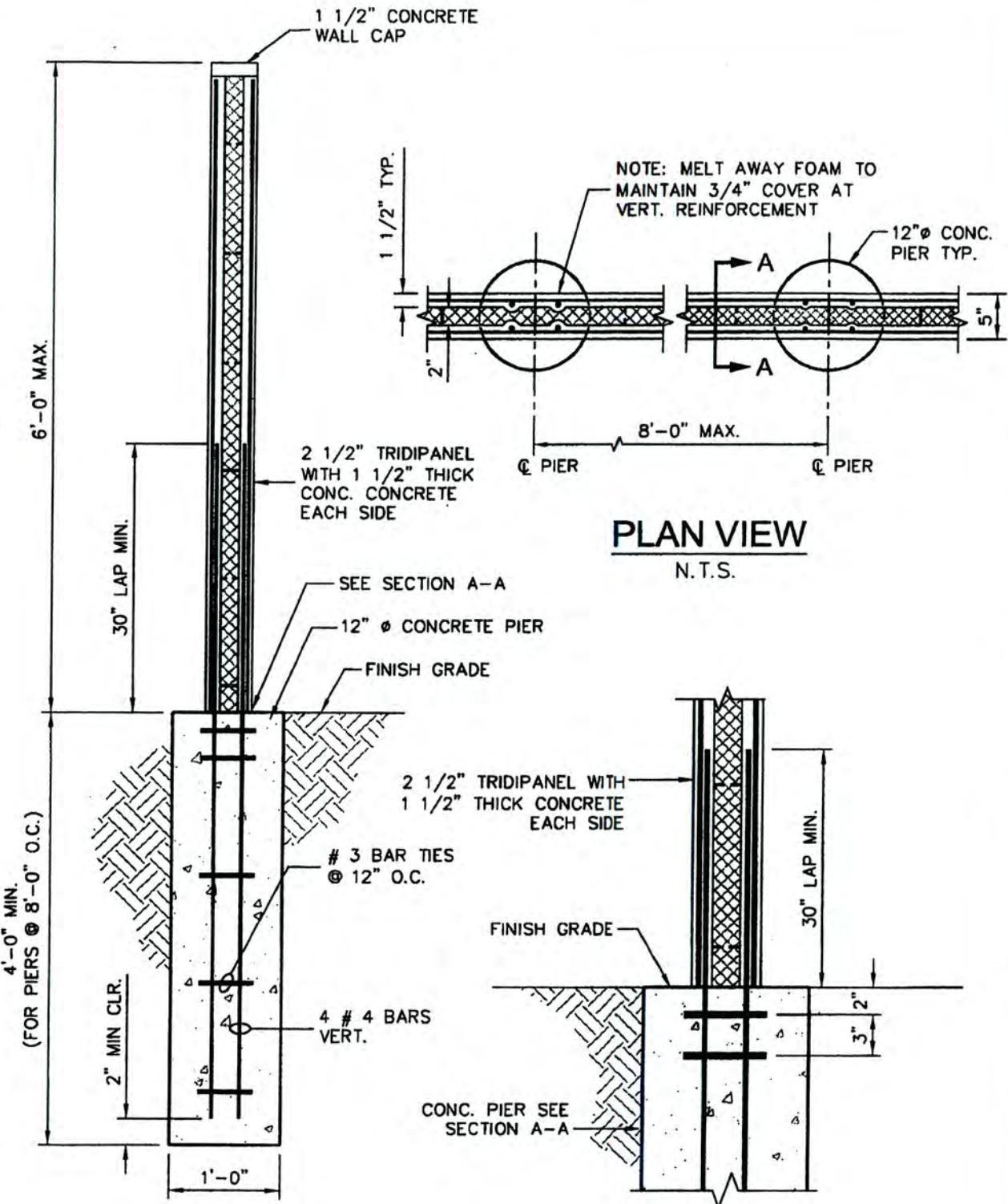


NOTES:

1. CONTRACTOR SHALL SUPPLY SHOP DRAWINGS OF PROPOSED BLOCK WALL, SHOWING PROPOSED PATTERN FOR APPROVAL BY CITY OF CHOWCHILLA.
2. SHOP DRAWING SHALL SHOW PROPOSED END TREATMENT OF WALL AT INTERSECTIONS, ADDRESS WALL HEIGHT IN RELATIONSHIP TO VEHICULAR LINE OF SIGHT.

CAL-LOC MORTARLESS MASONRY MATERIAL:
MAY BE OBTAINED FROM THE YARD LUMBER & FENCE SUPPLY,
MODESTO, CALIFORNIA TELEPHONE (209) 527-5765.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
8-08-05		DECORATIVE MASONRY WALL FOR SANTA CRUZ BOULEVARD	M-22
			SHT. 5 OF 5



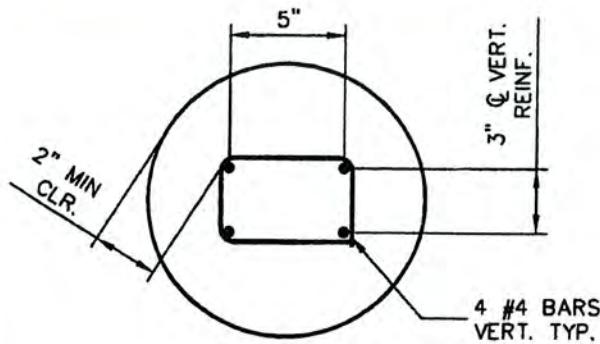
SECTION B-B

N.T.S.

SECTION A-A

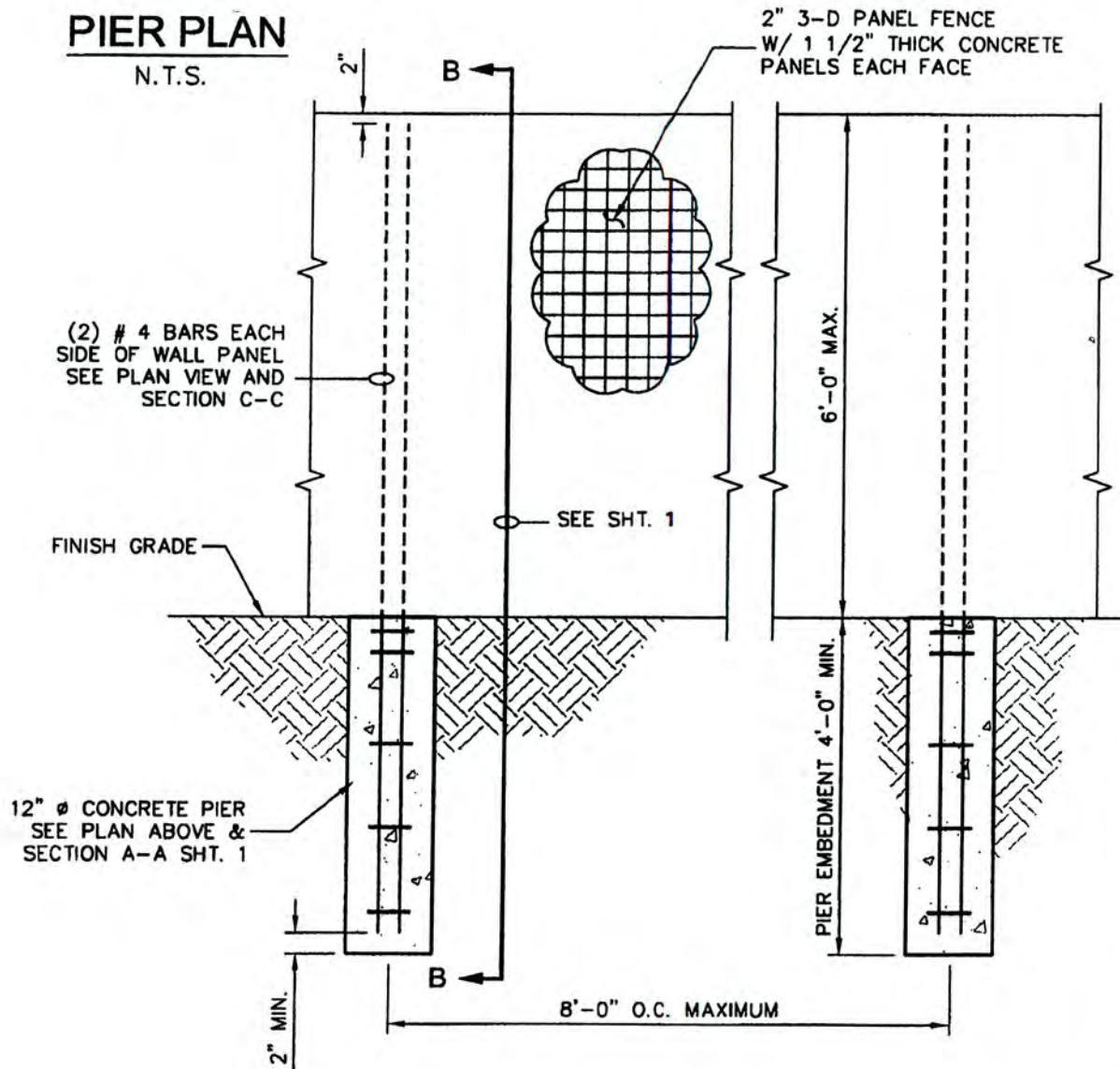
NTS

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
8-27-07	3-D CONCRETE PANEL FENCE	M-23
	6 FOOT TALL	
		SHT. 1 OF 4



PIER PLAN

N.T.S.



ELEVATION VIEW

N.T.S.

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
8-27-07	3-D CONCRETE PANEL FENCE 6 FOOT TALL	M-23
		SHT. 2 OF 4

GENERAL NOTES:

3-D PANEL FENCE - CHOWCHILLA, CA.

A. GENERAL

1. Contractor shall verify all dimensions and job site conditions before commencing work and shall report any discrepancies to the City Building Department.
2. Use written dimensions. Do not use scaled dimensions. Where no dimension is provided, consult the City Building Department for clarification before proceeding with the work.
3. The design, adequacy, and safety of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the contractor.
4. City holds no liability for unauthorized changes made to the construction documents that result in damages. City is not responsible for damages that result from unauthorized changes made by the owner, or contractor.

B. DESIGN CRITERIA

1. CODE: California Building Code, 2001 Edition

2. VERTICAL LIVE LOADS:

ROOF:	-	N/A
FLOOR:	-	N/A

3. LATERAL LOADS:

WIND	-	70 MPH, Exp. C
SEISMIC	-	Zone 3

4. SOIL BEARING:

Soil Class Type 3 - 2000 PSF (Assumed)

FOUNDATION NOTES

- A. If the soil at the site contains disturbed, organic, silty, or clayey soils, a geotechnical engineer shall be retained to design the soil used to support the footings.
- B. If ground water is present at the site or if the building site is located in a slide area, or if the soil is fill, or if the soil is otherwise considered unstable, a geotechnical engineer shall be retained to design the soil used to support the footings.

REVISION DATE	CITY OF CHOWCHILLA	STD.DWG.
8-27-07	3-D CONCRETE PANEL FENCE	M-23
	6 FOOT TALL	SHT. 3 OF 4

- C. The bottom of all footings are to bear on native, inorganic, undisturbed, non-silty, non-clayey soil. Bottom of all footings not susceptible to frost heave shall bear 1'-0" minimum below existing grade.
- D. If structural fill is to be used, contact a geotechnical engineer licensed to practice in the jurisdiction of the construction site.

CAST-IN-PLACE CONCRETE FOOTINGS

A. CONCRETE:

1. $f'_c = 2500$ PSI at 28 days, normal weight.
2. Max. slump = 3" for footings.
3. Curing Compound: ASTM C309, Type 2, Class B.
4. Construction to be in accordance with ACI 318-99.
5. Location of construction or pour joints must be approved by the City Building Official unless otherwise shown on these drawings.
6. Concrete shall be air-entrained and shall conform to section 3.4.1 of ACI 301-84 for durability.

B. REINFORCING STEEL:

1. Use ASTM A615 – Grade 40 for #3 reinforcing bars, Grade 60 for #4 and larger reinforcing bars.
2. Provide clearance and cover of rebar as designated in ACI-318.

3-D PANEL WALLS

- A. 2 $\frac{1}{2}$ " 3-D panel with a minimum of 1 $\frac{1}{2}$ " 2500 PSI concrete on each side.
- B. 3-D panels shall be installed in accordance with NER-454.
- C. Quality control for shotcrete shall be in accordance with NER-454, Section 4, 2001 CBC.
- D. All rebar in 3-D panel shall be Grade 60. Concrete (and shotcrete) shall be 3000 PSI or better (Designed based on 2500 PSI).
- E. All waterproofing of panels below grade shall be approved by the City.
- F. All rebar in 3-D panels greater than #3 shall have a minimum of 1 $\frac{1}{2}$ " coverage. Hollow panel core to allow a minimum of 1 $\frac{1}{2}$ " concrete between bar and core.
- G. Minimum of 3/4" coverage for 3-D panel wire.
- H. Shotcrete shall be applied per the requirements of 2001 CBC Section 1924.

REVISION DATE	CITY OF CHOWCHILLA		STD.DWG.
8-27-07		3-D CONCRETE PANEL FENCE	M-23
		6 FOOT TALL	SHT. 4 OF 4