

Standard Plans



City of San Juan Capistrano

STANDARD
PLANS

SHEET PLAN TITLE
NO.

APPROVAL REVISION
DATE DATE

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CURBS, GUTTERS AND SIDEWALKS (CON'T)

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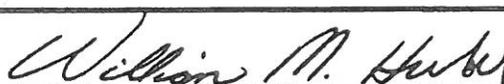
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SEWER STANDARDS

801(2)	48" MANHOLE		
802(2)	60" MANHOLE		
803	PIPE CASING, CONCRETE ENCASEMENT & HOUSE LATERAL		
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UTILITY SYMBOLS

	PP. OR TP.	POWER POLE OR TELEPHONE POLE
		GUY WIRE & ANCHOR
	3' x 5' M.H.	UNDERGROUND UTILITY MANHOLE OR VAULT (SIZE AS INDICATED)
	M.H.	SEWER OR STORM DRAIN MANHOLE
	C.O.	SEWER CLEANOUT
	L.H.	SEWER LAMPHOLE
	C.B. L.	CATCH BASIN (SIZE AS INDICATED)
	RH	FIRE HYDRANT
	W. OR G.	WATER OR GAS METER
	W. OR G.	WATER OR GAS VALVE
		STREET LIGHT
		STREET SIGNS

SYMBOLS FOR SECTIONS

	CONCRETE
	ASPHALTIC BASE COURSE
	AGGREGATE BASE COURSE
	SAND
	STEEL
	WOOD
	BRICK
	EARTH FILL
	GROUND LINE

TOPOGRAPHIC SYMBOLS

EXISTING - DASHED; PROPOSED - SOLID

	WOOD FENCE
	CONCRETE BLOCK FENCE
	RAILROAD
	CURB AND GUTTER
	CONCRETE
	EDGE OF PAVEMENT
	ASPHALTIC CONCRETE PAVEMENT
	PALM TREES
	MISCELLANEOUS TREES
	SHRUB OR HEDGE
	SLOPE EMBANKMENT
	BENCH MARK
	BUILDING CORNER
	BARBED WIRE OR CHAIN LINK FENCE

UTILITY LINE SYMBOLS

(SIZE AND TYPE AS INDICATED)

	6 M.T.D. - T - - - -	UNDERGROUND TELEPHONE LINE
	- - - - - E - - - -	UNDERGROUND ELECTRICAL LINE
	2" STL. - - - - G - - - -	GAS LINE
	6" V.C.P. - - - - S - - - -	SANITARY SEWER LINE & LATERAL
	16" R.C.P. - - - - SD - - - -	STORM DRAIN LINE
	6" A.C. - - - - W - - - -	DOMESTIC WATER LINE
	2" CL. - - - - IRR - - - -	IRRIGATION LINE
	- - - - - TS - - - -	TRAFFIC SIGNAL CONDUIT
	- - - - - CTV - - - -	CABLE TELEVISION

LINE SYMBOLS FOR MAPS AND PLANS

	CENTER LINE
	CITY BOUNDARY
	PROPERTY LINE OR R/W LINE
	LOT LINE
	LOT SPLIT
	SET BACK LINE
	EASEMENT

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REVISIONS

STANDARD DESIGN
SYMBOLS AND ABBREVIATIONS

STANDARD
PLAN NO.

10

William M. Huber
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ABBREVIATIONS

(REFER TO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" SECTION 1 - 3 FOR OTHERS.)

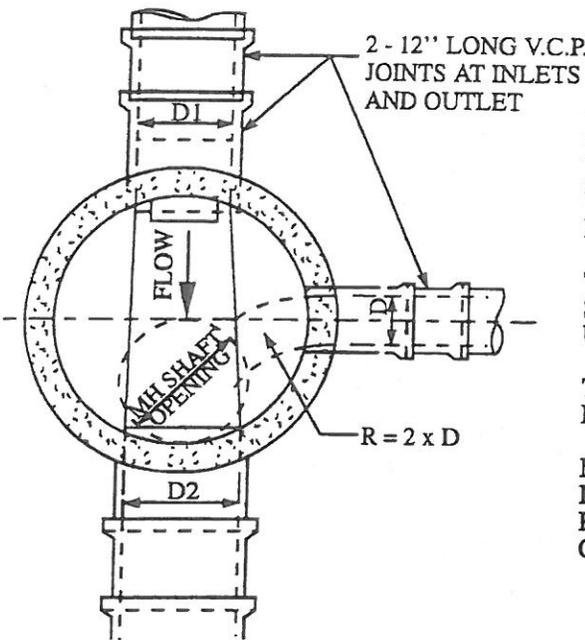
#	NUMBER	ECR	END OF CURB RETURN
AB	AGGREGATE BASE	EP	EDGE OF PAVEMENT
AC	ASPHALTIC CONCRETE	ESMT	EASEMENT
AGG	AGGREGATE	EVC	END OF VERTICAL CURVE
BC	BEGINNING OF CURVE	EXP JT	EXPANSION JOINT
BCR	BEGINNING OF CURB RETURN	FL	FLOW LINE
BDRY	BOUNDARY	FS	FINISHED SURFACE
BM	BENCH MARK	FT	FOOT
BVC	BEGINNING OF VERTICAL CURVE	GALV	GALVANIZED
CAB	CRUSHED AGGREGATE BASE	GB	GRADE BREAK
CF	CURB FACE	ID	INSIDE DIAMETER
C.F.	CUBIC FOOT	L	ARC LENGTH ALONG CURVE
CL	CLEAR	LF	LINEAL FOOT
CL	CENTER LINE	LG	LONG
CL 2 AB	STATE CLASS 2 AGGREGATE BASE	MAX	MAXIMUM
CMB	CRUSHED MISCELLANEOUS BASE	MIN	MINIMUM
CONC	CONCRETE	MOC	MIDDLE OF CURVE
CONST JT	CONSTRUCTION JOINT	NO	NUMBER
CY	CUBIC YARD	O	ROUND
D	DELTA	OC	ON CURVE
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DWG	DRAWING	PCC	POINT OF COMPOUND CURVE
DWY	DRIVEWAY	PCC	PORTLAND CEMENT CONCRETE
EA	EACH	PI	POINT OF INTERSECTION PROPERTY
EC	END OF CURVE		

L	PROPERTY LINE
PRC	POINT OF REVERSE CURVE
PRVC	POINT OF REVERSE VERTICAL CURVE
R	RADIUS
REQ'D	REQUIRED
R'WD	REDWOOD
R/W	RIGHT OF WAY
REINF	REINFORCING
S.F.	SQUARE FOOT
S.Y.	SQUARE YARD
S/W	SIDEWALK
STD	STANDARD
STR GR	STRAIGHT GRADE
SYMM	SYMMETRICAL
T	TONS
T	SEMI TANGENT DISTANCE
TC	TOP OF CURB
TRANS	TRANSITION
TYP	TYPICAL
VC	VERTICAL CURVE
YD	YARD
W/	WITH



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REVISIONS	STANDARD DESIGN SYMBOLS AND ABBREVIATIONS	STANDARD PLAN NO. 10
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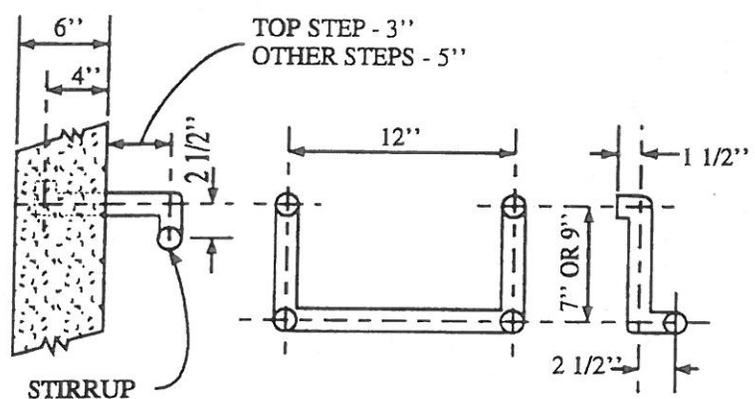
PLAN

WHEN BROKEN END OF PIPE IS WITHIN MANHOLE, BREAK THE PIPE FLUSH WITH INSIDE OF MANHOLE WALL AND PLASTER BROKEN EDGES SMOOTH. WHEN UNBROKEN END OF PIPE IS IN MANHOLE, LEAVE SQUARE END AND FILL FILLETS AT UPPER SECTION TO DRAIN.

THE CROWN ELEVATION OF ALL PIPES SHALL BE THE SAME AS THE CROWN ELEVATION OF THE LARGEST PIPE UNLESS OTHERWISE INDICATED.

THE FIRST TWO PIPE JOINTS INTO AND OUT OF EACH MANHOLE SHALL BE A 1' SECTION.

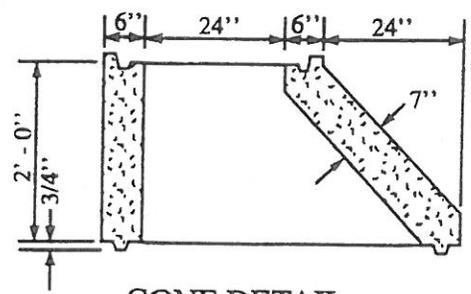
MANHOLE SHAFT OPENING TO BE PLACED ON DOWNSTREAM SIDE OF MANHOLE. LADDER RUNGS ARE REQUIRED. SEE SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS, SECT. I - 05.



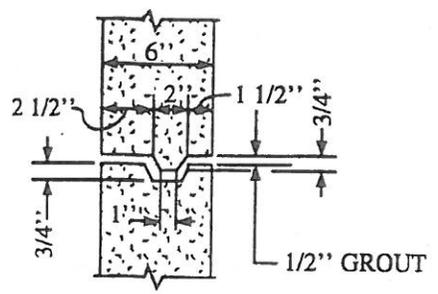
STIRRUP
TYPE SAFETY STEPS SPACED 16" O.C.
ARE CAST IN PLACE AT TIME OF MANUFACTURE

STEP DETAIL

STEP NOTE:
MATERIAL SHALL BE 3/4" DIA. STEEL CONFORMING TO
A.S.T.M. A - 15 OR A - 107 GALVANIZED AFTER FABRICATION
IN ACCORD WITH A.S.T.M. A - 123.



CONE DETAIL



JOINT DETAIL

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REVISIONS

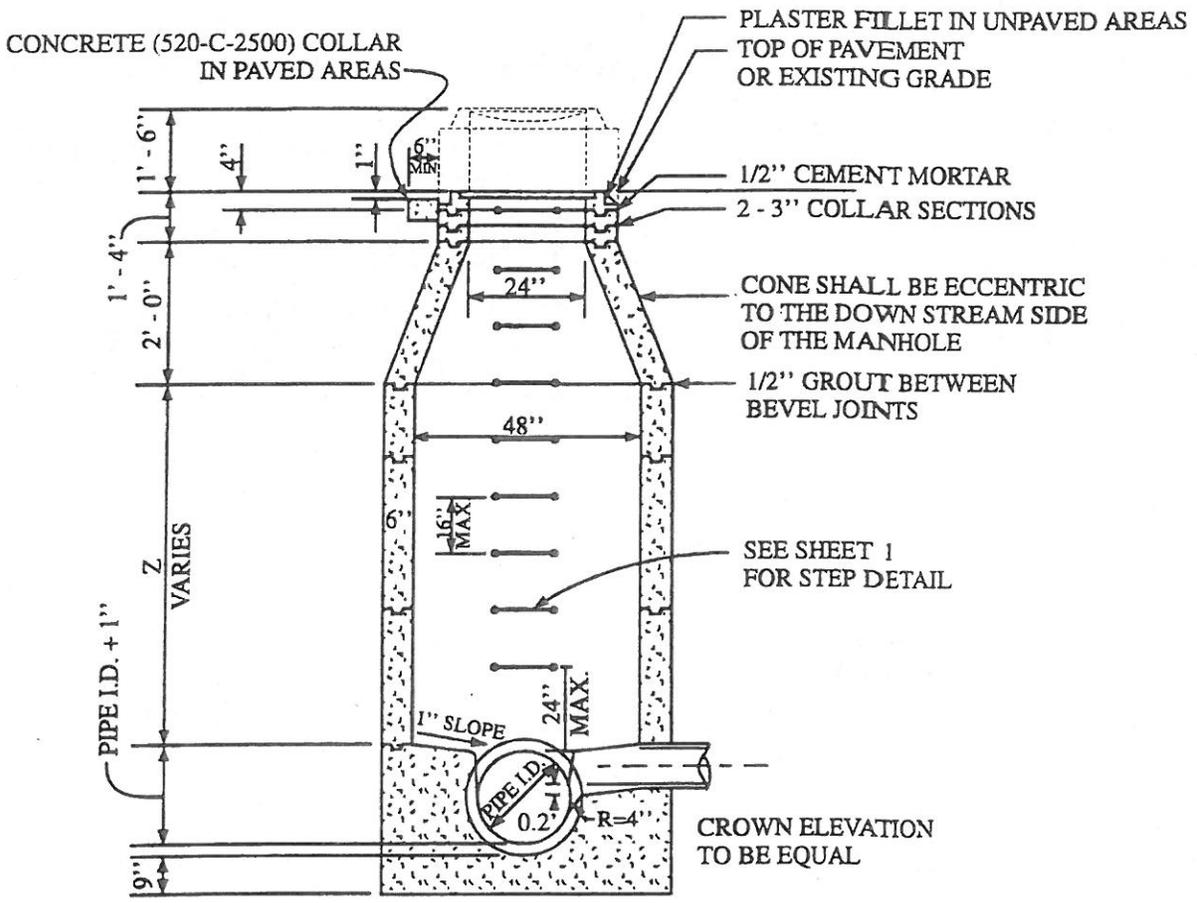
48" MANHOLE

William M. Huber 7/20/95
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PLAN NO.

801

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BASE POURED AGAINST UNDISTURBED SOIL.

NOTES:

1. 48" I.D. MANHOLE TO BE USED ON SEWERS 20" IN DIAMETER AND LESS.
2. USE 60" I.D. MANHOLE WHEN Z IS EQUAL TO OR GREATER THAN 12'.
3. SEE STD PLAN NO. 807 FOR FRAME AND COVER DETAILS.
4. MANHOLES IN UNPAVED AREAS ADJACENT TO TRAVELLED WAYS SHALL BE PROTECTED BY METAL POSTS SET IN CONCRETE TO THE CITY'S SATISFACTION.
5. MANHOLES PLACED IN UNPAVED AREAS SHALL HAVE FRAME AND COVER 1'6" ABOVE EXISTING GRADE.

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REVISIONS	48" MANHOLE	STANDARD PLAN NO.
		801
	<i>William M. Huber</i>	
	APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785	DATE 7/20/95
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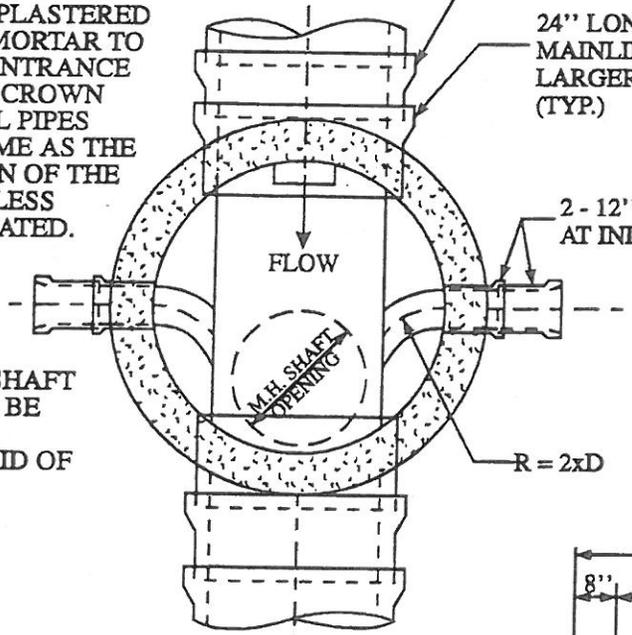
CUT PIPE FLUSH WITH INSIDE OF MANHOLE. BROKEN EDGES SHALL BE PLASTERED WITH A CEMENT MORTAR TO GIVE A SMOOTH ENTRANCE TO THE PIPE. THE CROWN ELEVATION OF ALL PIPES SHALL BE THE SAME AS THE CROWN ELEVATION OF THE LARGEST PIPE UNLESS OTHERWISE INDICATED.

THE MANHOLE SHAFT OPENING SHALL BE PLACED ON THE DOWNSTREAM SID OF THE MANHOLE.

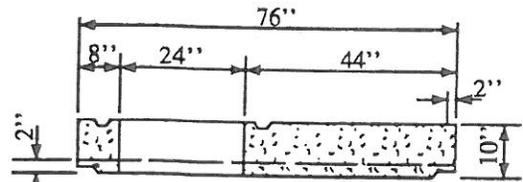
12" SECTION - INLET AND OUTLET (TYP.)

24" LONG SECTION WHEN MAINLINE IS 21" VCP OR LARGER - INLET AND OUTLET (TYP.)

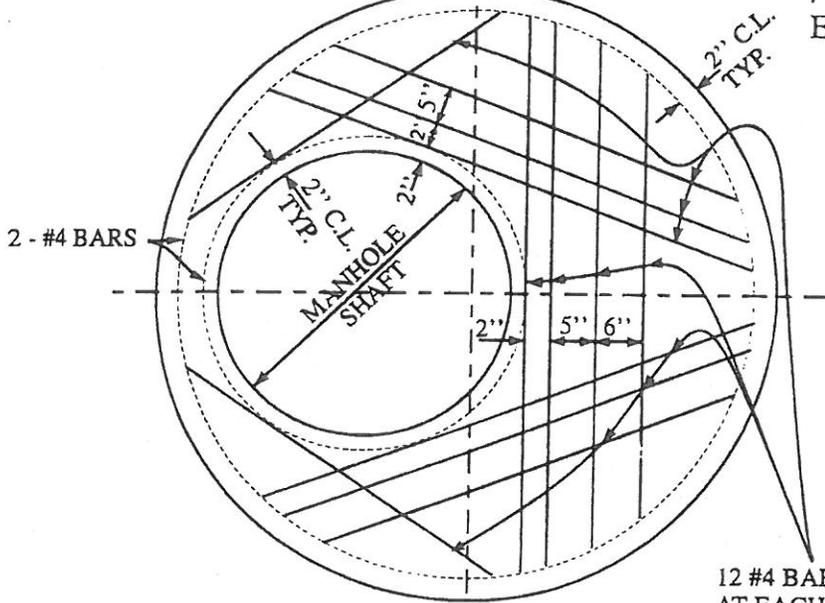
2 - 12" LING VCP JOINT AT INLETS (TYP.)



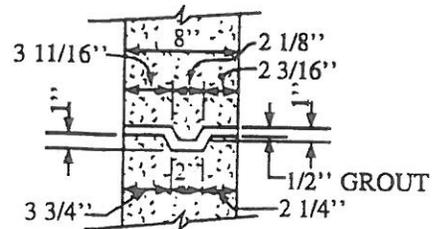
PLAN



ECCENTRIC FLAT TOP DETAIL



ECCENTRIC FLAT TOP



JOINT DETAIL

12 #4 BARS HOOKED AT EACH END

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REVISIONS

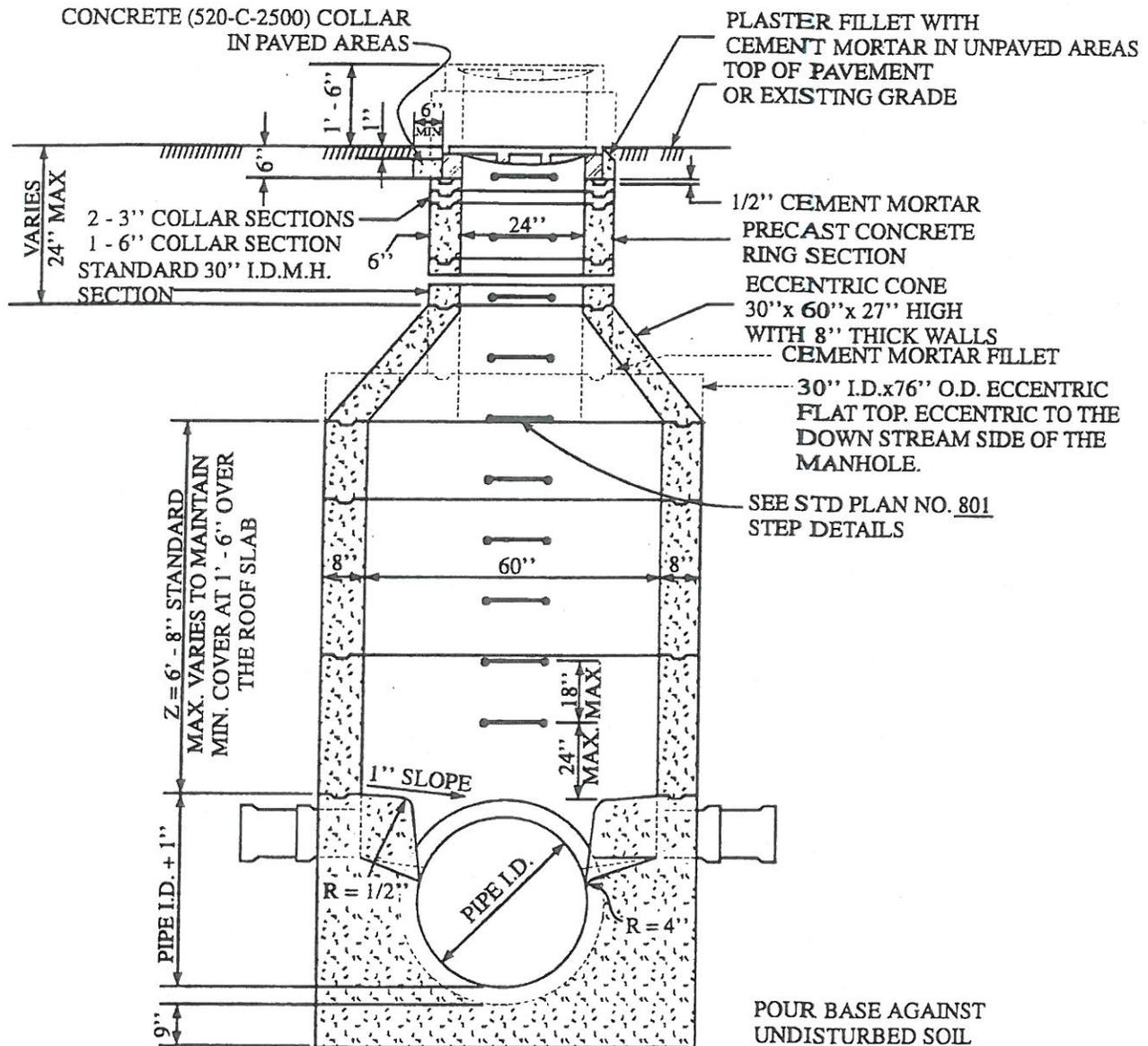
60" MANHOLE

STANDARD PLAN NO.

802

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ELEVATION

NOTES:

1. THE STANDARD 60 INCH MANHOLE SHALL BE USED ON SEWERS 24" IN DIAMETER AND LARGER, OTHER SPECIAL CASES, OR WHEN Z IS 12' OR GREATER.
2. SEE STD. PLAN NO. 807 FOR FRAME AND COVER DETAILS.
3. MANHOLES IN UNPAVED AREAS ADJACENT TO TRAVELLED WAYS SHALL BE PROTECTED BY METAL POSTS SET IN CONCRETE TO THE CITY'S SATISFACTION.
4. MANHOLES IN UNPAVED AREAS SHALL HAVE FRAME AND COVER 1'6" ABOVE EXISTING GRADE.

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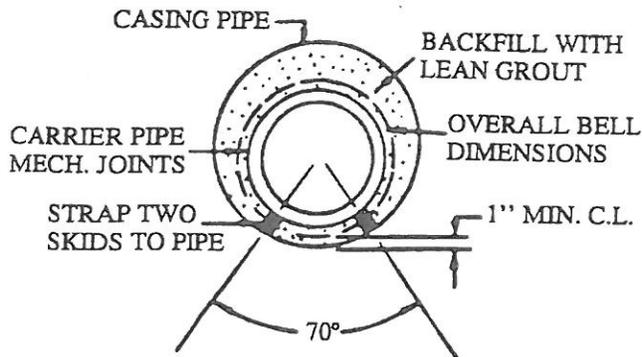


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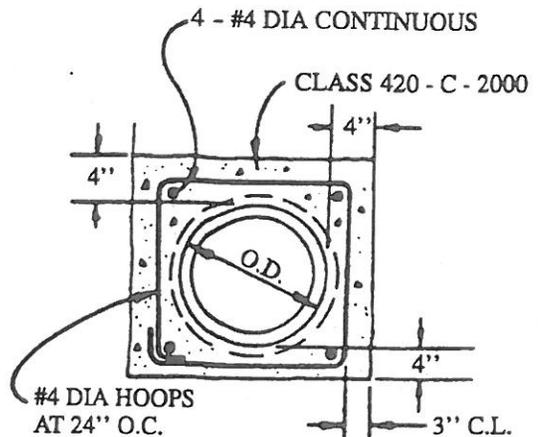
60" MANHOLE

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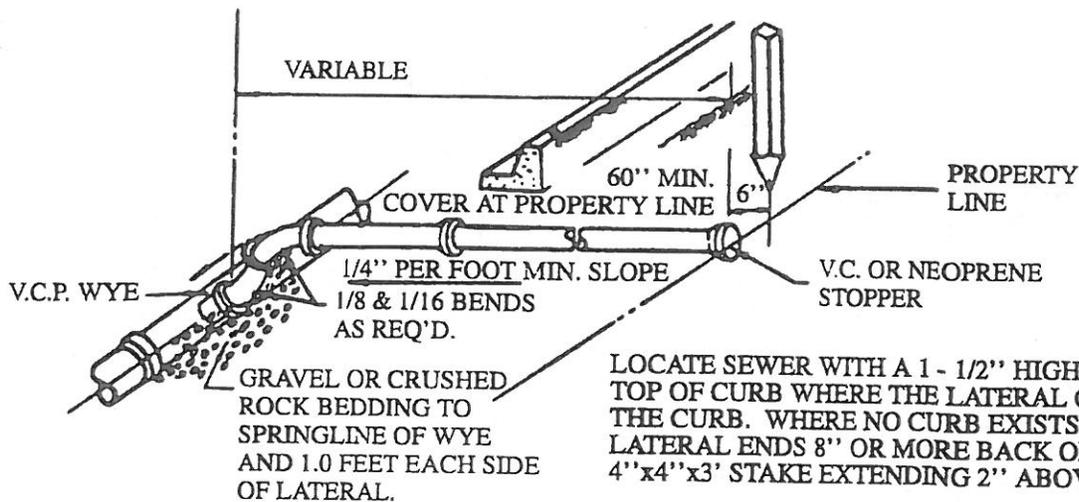
STANDARD
 PLAN NO.
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TYPICAL PIPE CASING
 CARRIER PIPE SHALL BE ANCHORED AND / OR WEIGHTED PRIOR TO GROUTING IN ORDER TO AVOID FLOATING.



REINFORCED CONCRETE ENCASEMENT
 CONCRETE ENCASEMENT SHALL BE EXTENDED 3" FROM BELL AND A ONE FOOT SECTION OF PIPE SHALL BE USED BEFORE AND AFTER THE ENCASEMENT. APPLY FORM OIL OR THIN PLASTIC SHEET OR OTHER ACCEPTABLE MATERIAL TO PREVENT BONDING.



WHERE V.C.P. IS INSTALLED WITHOUT HOUSE LATERAL, THE WYE SHALL BE PLUGGED WITH A V.C. PLUG OR NEOPRENE STOPPER.

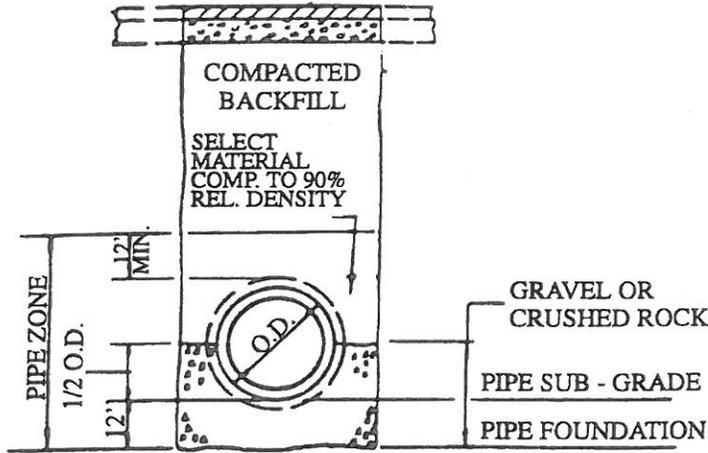
TYPICAL HOUSE LATERAL

LOCATE SEWER WITH A 1 - 1/2" HIGH "S" CHISELED IN TOP OF CURB WHERE THE LATERAL CROSSES UNDER THE CURB. WHERE NO CURB EXISTS OR WHERE THE LATERAL ENDS 8" OR MORE BACK OF CURB, PLACE A 4'x4'x3' STAKE EXTENDING 2" ABOVE FINISH GRADE.

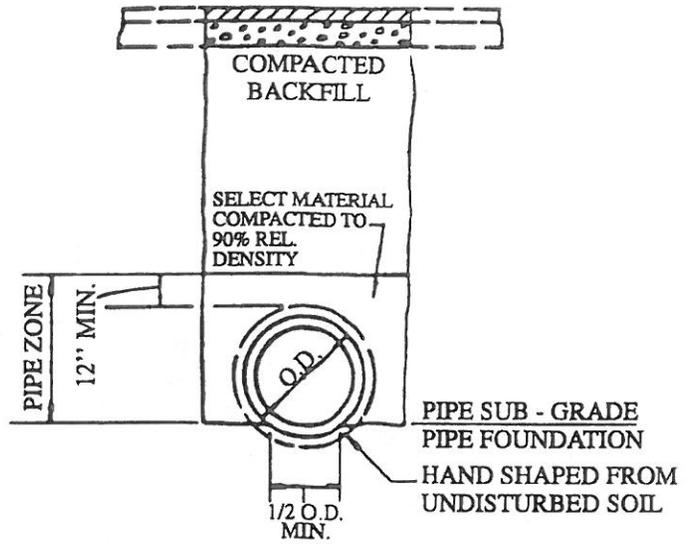
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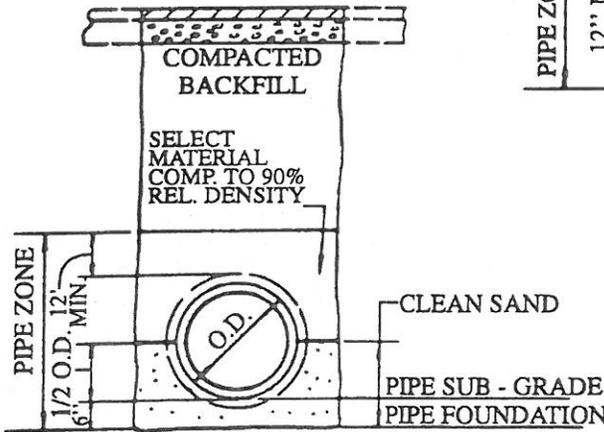
REVISIONS	PIPE CASING, CONCRETE ENCASEMENT & HOUSE LATERAL	STANDARD PLAN NO.
	<p><i>William M. Huber</i></p> <p>APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE 7/20/95</p>	803
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TYPE I



TYPE III

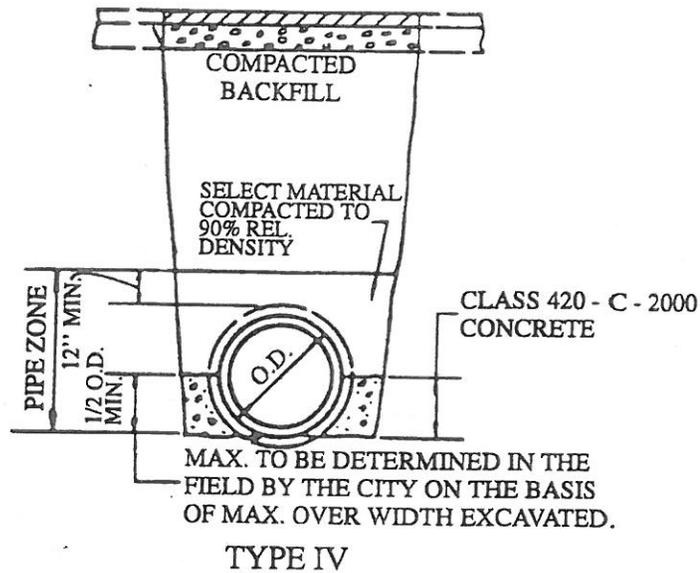


TYPE II

City of San Juan Capistrano



<p>REVISIONS</p>	<p>PIPE BEDDING DETAILS</p>	<p>STANDARD PLAN NO.</p>
		<p>804</p>
<p><i>William M. Huber</i> 7/20/95 APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE</p>		<p>SHT 1 OF 2</p>



NOTES:

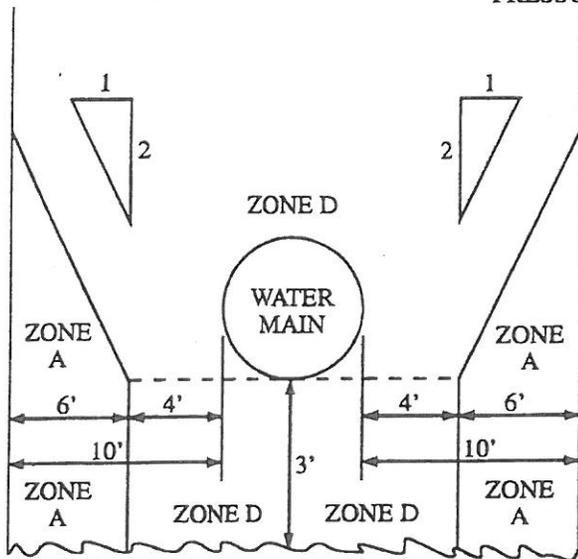
1. THE TRENCH WIDTH AT THE UPPER LIMIT OF THE PIPE ZONE SHALL BE WITHIN THE FOLLOWING LIMITS FOR TYPE I, II, AND III BEDDING:
 MAXIMUM TRENCH WIDTH - O.D. OF PIPE OR BELL PLUS 12"
 MINIMUM TRENCH WIDTH - O.D. OF PIPE OF BELL PLUS 8"
2. TYPE IV BEDDING SHALL BE USED WHERE THE TRENCH WIDTH AT THE UPPER LIMIT OF THE PIPE ZONE EXCEEDS THE MAXIMUM WIDTH SPECIFIED ABOVE.
3. SEE STD. PLAN NO. 700 FOR TRENCH RESURFACING AND BACKFILL REQUIREMENTS.

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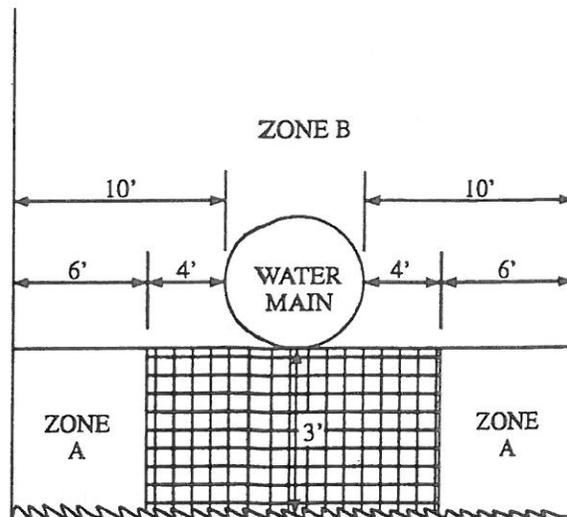
REVISIONS	PIPE BEDDING DETAILS	STANDARD PLAN NO.
		804
	<p><i>William M. Huber</i> 7/20/95 APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE</p>	SHT 2 OF 2

DESIGN REQUIREMENTS FOR SANITARY SEWERS IN THE VICINITY OF
PRESSURE WATER MAINS



PARALLEL CONSTRUCTION

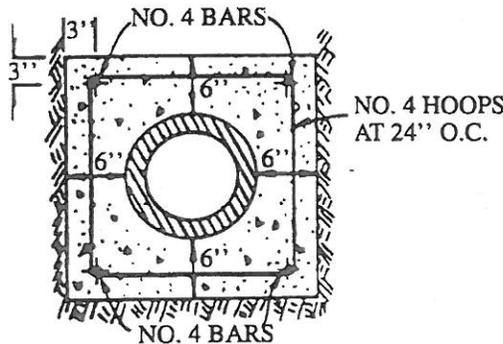
IF A SANITARY SEWER IS TO BE LOCATED WITHIN 10 FEET OF A PRESSURE WATER MAIN WITHIN ANY OF THE ABOVE INDICATED ZONES, SPECIAL CONSTRUCTION WILL BE REQUIRED AS SHOWN BELOW.



PERPENDICULAR CONSTRUCTION

IF A MAIN LINE SEWER MUST CROSS A PRESSURE WATER MAIN WITHIN ANY OF THE ABOVE INDICATED ZONES, OR IF A HOUSE LATERAL MUST CROSS IN ZONE B, SPECIAL CONSTRUCTION WILL BE REQUIRED AS SHOWN BELOW.

ZONE	SEWER CONSTRUCTION REQUIREMENTS
A	V.C.P. WITH COMPRESSION JOINTS
B OR C	C.I.P. (CLASS 150) APPROVED MECHANICAL JOINTS; OR V.C.P. WITH SPECIAL CONCRETE PER (DETAIL 1); OR V.C.P. GROUTED IN CONTINUOUS STEEL CASING.
D	DO NOT LOCATE ANY PARALLEL SEWER IN THIS AREA WITHOUT HEALTH DEPARTMENT APPROVAL.



SPECIAL ENCASUREMENT DETAIL 1
SEE STD. PLAN 803.

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REVISIONS	SEPARATION OF WATER AND SEWER LINES	STANDARD PLAN NO.
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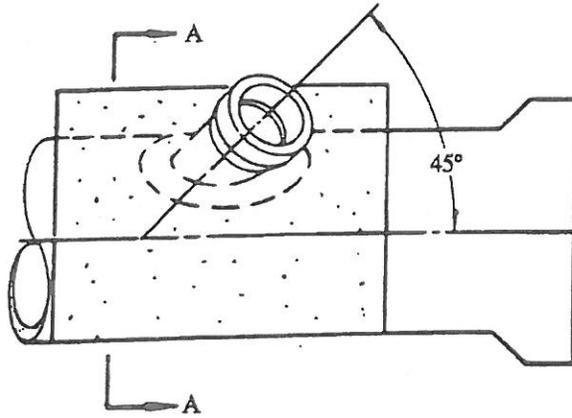
NOTES:

1. EXTEND BOTH ENDS OF ENCASEMENT TO A POINT ONE INCH SHORT OF THE FIRST PIPE JOINT BEYOND LOCATIONS SPECIFIED ON PLAN. USE ONE FOOT SECTION OF PIPE AT BOTH ENDS BEFORE USING STANDARD LENGTHS.
2. APPLY FORM OIL, THIN PLASTIC SHEET, OR OTHER ACCEPTABLE MATERIAL TO PIPE, TO PREVENT BOND BETWEEN PIPE AND CONCRETE.
3. USE CLASS 420 - C - 2000 P.C.C. FOR ALL CASES.
4. NO SEWER LINES SHALL BE WITHIN 15' HORIZONTALLY OF A 5 PSI. OR LESS WATERLINE.

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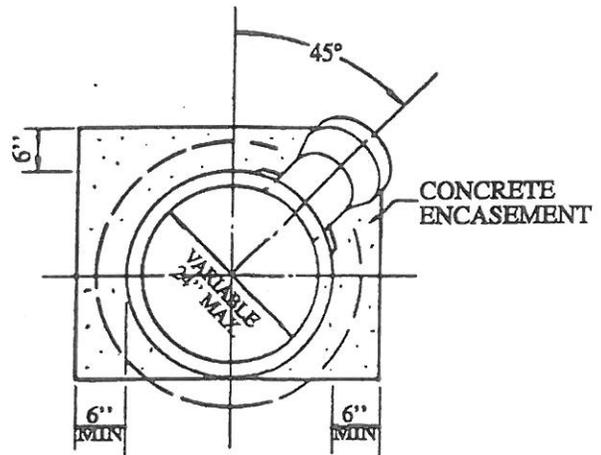
REVISIONS	SEPARATION OF WATER AND SEWER LINES	STANDARD PLAN NO.
		805
	<i>William M. Huber</i> 7/20/95 APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE	SHT 2 OF 2



ELEVATION

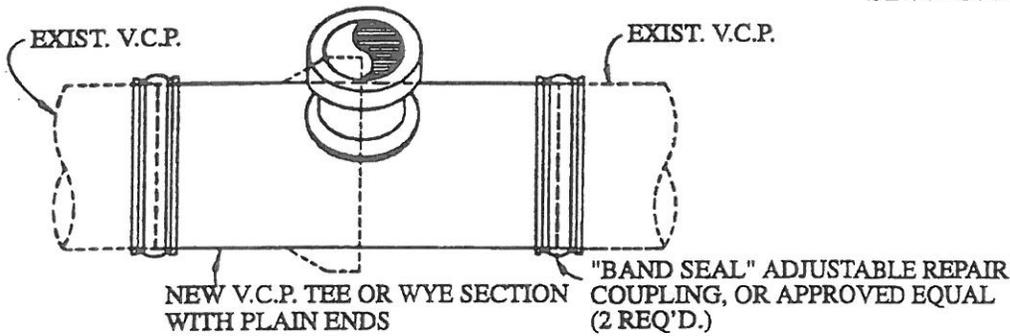
THE BELL ON THE COLLAR WYE SADDLE SHALL NOT BE ENCASED IN CONCRETE

TAP TO BE MADE AT APPROX. ϕ JOINT. ENCASE 12" EACH SIDE OF THE OPENING WITH CLASS 420 - C - 2000 P.C.C.



SECTION A-A

BELOW - DETAIL MAKING CONNECTION TO AN EXISTING SEWER: FOR MAKING 6" LATERAL ON 8" MAIN OR AS REQUIRED BY THE CITY ENGINEER



COLLAR WYE SADDLE

City of San Juan Capistrano



REVISIONS

SADDLE CONNECTION

STANDARD PLAN NO.

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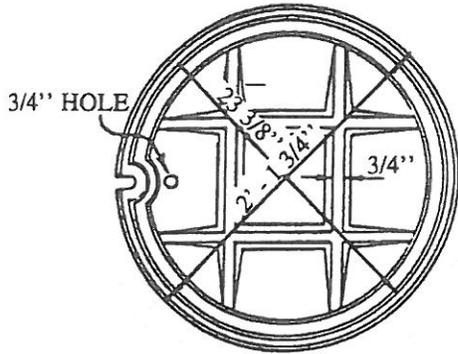
NOTES:

1. THE SEWER LINE SHALL BE SCORED TO THE APPROXIMATE SHAPE OF THE COLLAR WYE OR TEE FITTING. THE CONTRACTOR SHALL EITHER CUT A NEAT OPENING WITH A CIRCULAR SAW OF 2", 4", 6", OR 8" DIAMETERS, OR MAKE A SMALL HOLE, NOT LARGER THAN ONE - INCH IN DIAMETER, IN THE APPROXIMATE CENTER OF THE SCORED AREA WITH A POINTED TOOL, SIMILAR TO A MASON'S PICK, AND CHIP WITH A CHISEL AND SHORT HANDLE, HAND HELD HAMMER IN A SPIRAL FASHION TO THE SCORED LINE.
2. THE CONTRACTOR SHALL SECURE THE COLLAR WYE SADDLE TO THE SEWER AS APPROVED BY THE CITY ENGINEER.
3. THE CONTRACTOR SHALL ENCASE THE SADDLE CONNECTION WITH CLASS 420 - C - 2000 P.C.C. AFTER THE CONNECTION IS APPROVED BY THE CITY ENGINEER TO THE LIMITS INDICATED ABOVE.
4. THE CONTRACTOR SHALL KEEP ALL CLAY CHIPS, DIRT, EPOXY, MORTAR, AND CONCRETE OUT OF THE SEWER SADDLED, AND SHALL PERFORM A CLEANING AND BALLING OF THE REACH SADDLED IF DIRECTED TO DO SO BY THE CITY ENGINEER.
5. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED PIPE AS DIRECTED BY THE CITY ENGINEER.
6. THE CONTRACTOR SHALL EPOXY ALL SADDLE CONNECTIONS TO THE SATISFACTION OF THE CITY ENGINEER.

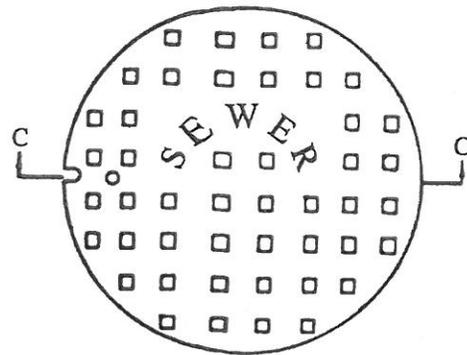
City of San Juan Capistrano



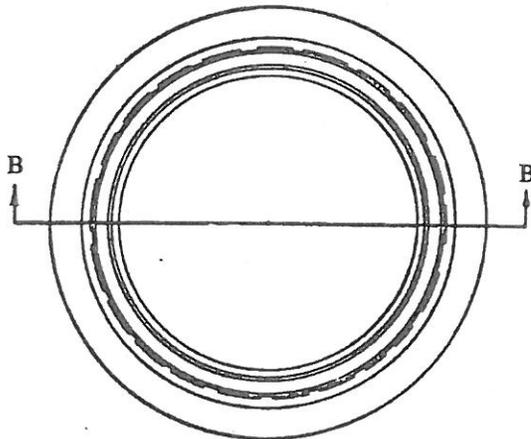
REVISIONS	SADDLE CONNECTION	STANDARD PLAN NO.
		806
	APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE 7/20/95	SHT. 2 OF 2



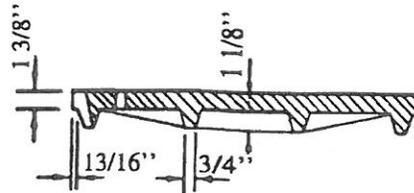
COVER - BOTTOM VIEW



COVER - TOP VIEW



RING PLAN



SECTION C - C

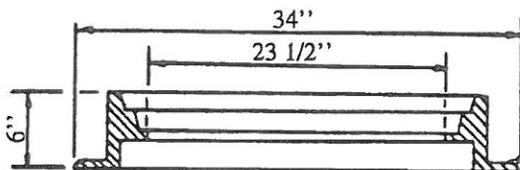
NOTES:

CAST IRON SHALL HAVE MINIMUM TENSILE STRENGTH OF 30,000 LBS. PER SQ. INCH.

ALHAMBRA FOUNDRY CO. TYPE A -1270 OR EQUAL

WEIGHT OF FRAME AND COVER = 440 LBS. MINIMUM

CASTINGS SHALL CONFORM TO A.S.T.M. A 48 CLASS 35.



SECTION B - B

City of San Juan Capistrano



REVISIONS

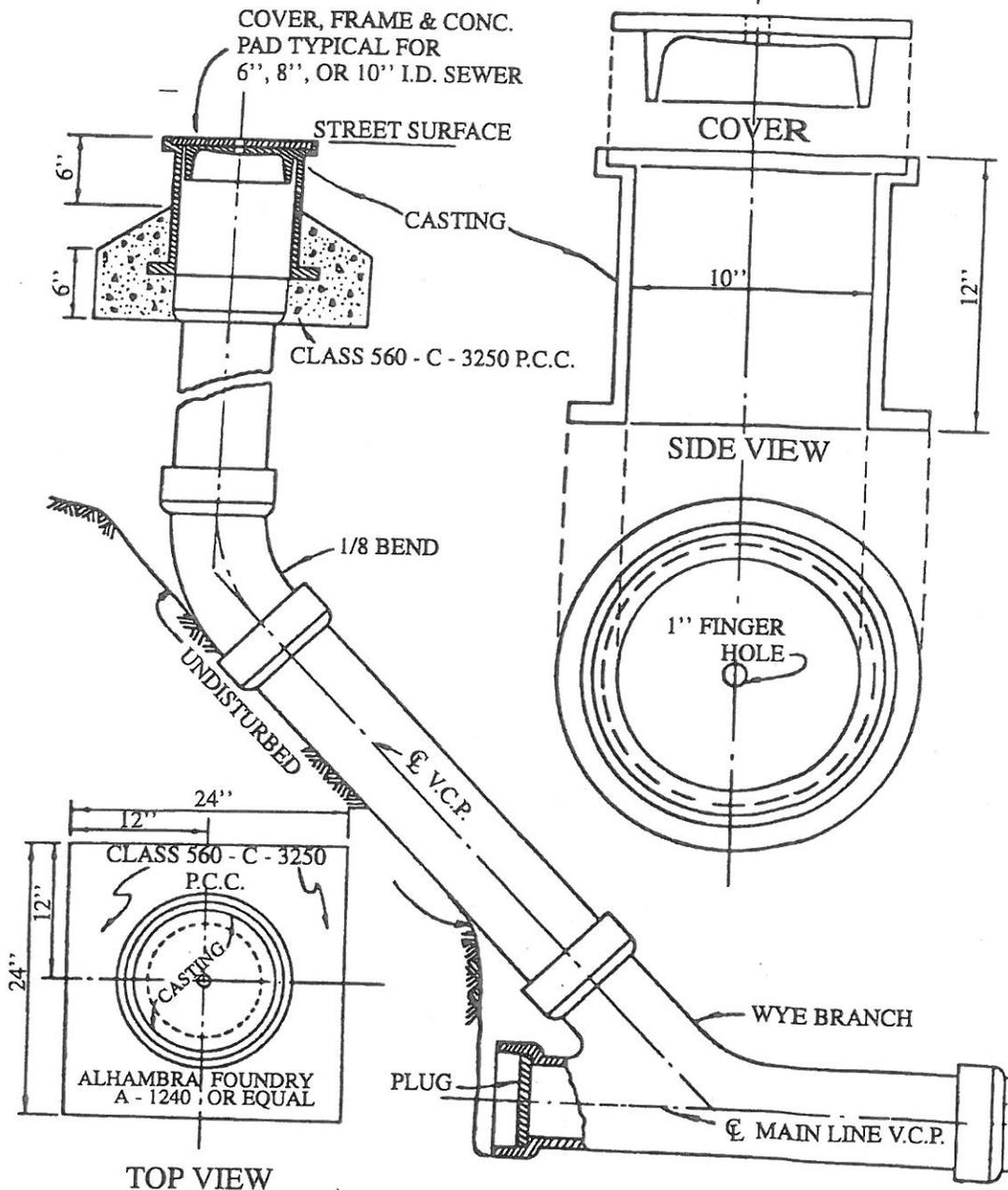
STANDARD MANHOLE
FRAME AND COVER

William M. Huber 7/20/95
APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE

STANDARD
PLAN NO.

807

SHT 1 OF 1



NOTES:

1. CLEAN - OUT PIPE MUST BE SAME DIAMETER AS MAINLINE SEWER.
2. CLEAN - OUTS ARE FOR COMMERCIAL OR INDUSTRIAL USE ONLY AND ARE TO BE LOCATED AT \underline{R} .

City of San Juan Capistrano



<p>REVISIONS</p>	<p>STANDARD CLEAN - OUT</p>	<p>STANDARD PLAN NO.</p> <p>808</p>
<p><i>William M. Huber</i> 7/20/95</p> <p>APPROVED BY CITY ENGINEER, WILLIAM M. HUBER R.C.E. 31785 DATE</p>		<p>SHT 1 OF 1</p>

Sec. 9-4.523. Sanitary sewer.

- (a) Design specifications. The design and construction of sanitary sewers shall be in accordance with the Standard Specifications, as last revised, of the City.
- (b) Capacity design standards. The design of residential sanitary sewers shall be based upon an average daily flow of 110 gallons per day per capita and an occupancy factor of three (3) persons per dwelling unit. The peak flow shall be the design flow and shall be determined by the formula plotted on Figure 4-4. All sanitary sewers having an internal diameter of less than twelve (12) inches shall be designed to have a flow depth of one-half of the internal diameter, or less, under design flow conditions. All sanitary sewers having an internal diameter of twelve (12) inches or greater may be designed to have a depth of flow of three-fourths of the internal diameter, or less, under design flow conditions. The only exceptions to such requirements shall be inverted siphons and force mains.

The average daily flow rates for uses other than residential shall be determined by the City Engineer from Table 4-2. If the precise type of land use is not known, the average sewerage flow shall be determined from Table 4-3. Peak flows shall be determined by the formula shown on Figure 4-4.

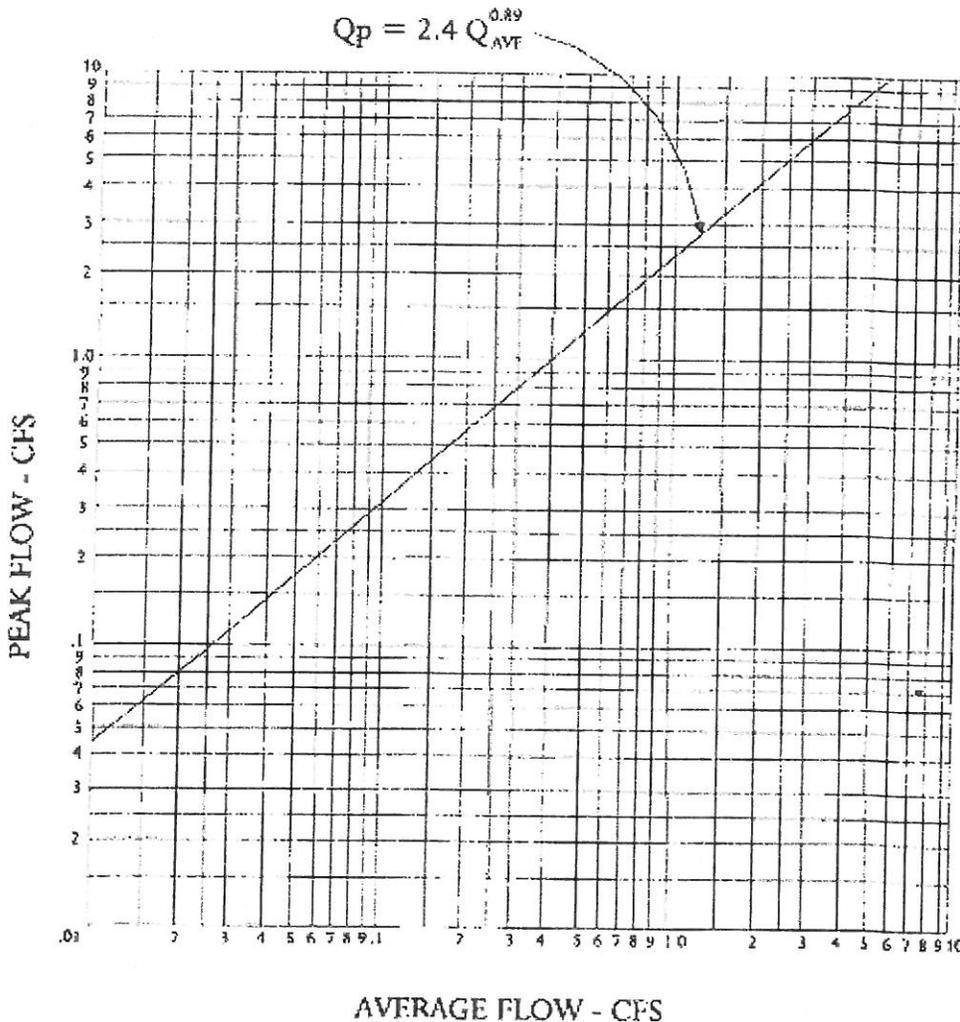


Figure 4-4

Peak to Average Relationship

for Sewage Design Flows

Table 4-2

Average Sewerage Flows—Specific Land Use Types

Type of Land Use	Flow (Gallons per Day/ Unit)
Hotels and Motels (without kitchens), per unit	105
Restaurants	
Conventional, per seat	25
Conventional (24-hour), per seat	35
Quick Service and Taverns, per seat	14
Bars and Cocktail Lounges, per seat	21
Institutional	
Conventional, per person	90
Hospitals, per bed	210
Schools	
Day with Cafeteria, per student	10
Day with Cafeteria and Showers, per student	15
Boarding, per student	60
Theaters	
Indoor, per seat	3
Outdoor, per seat	3
Service Stations	
Per vehicle served	7
Per set of pumps (island)	350
Commercial Stores, per employee; or	42
Per first 25 square feet	315
Per each additional 25 square feet	280
Golf Course and Clubs	
Per member	110
Per non-member	15
Tennis Clubs	
Resident-type, per member	110
Non-Resident-type, per member	15
Stables, per horse	3
Offices, per employee	10
Factories, sanitary wastes only per employee per shift	25
Self-service Laundries, per machine	500
Public Swimming Pools with Showers and Toilets, per toilet	10
Bowling Alleys, per alley	140
Picnic Parks and Toilets, per toilet	10
Assembly Halls, per seat	1
Note: If the precise type of land use is not known, the average sewerage flow shall be determined from Table 4-3.	

Table 4-3

Average Sewage Flows—General Land Use Types

Type of Land Use	Flow (Gallons per Day/Acre)
Institutional	1,960
Recreational	790
Parks	790
Commercial	2.490
Low-Density Residential	660
Medium-Density Residential	1,320
High-Density Residential	5,500

- (c) System design standards. The minimum internal diameter for a mainline sanitary sewer shall be eight (8) inches. Sewer laterals shall be either four (4) inches or six (6) inches in internal diameter and designed in accordance with the Uniform Plumbing Code, as last revised. The minimum slopes at which mainline sanitary sewers shall lie installed are set forth in Table 4-4 as follows:

Table 4-4

Minimum Slopes for Sanitary Sewers

Internal Diameter (inches)	Slope
8	0.0040
10	0.0032
12	0.0024
15	0.0016
18	0.0014
21	0.0012
24	0.0010
27 and larger	0.0008

- (d) Dedications. All mainline sanitary sewers, cleanouts, manholes, and appurtenant equipment within public rights-of-way shall be dedicated to the City. All sanitary sewer facilities outside public rights-of-way to be dedicated to the City shall be located within exclusive easements granted to the City for access and maintenance purposes. Such easements shall be recorded with the County Recorder prior to the approval of the improvement plans. All of the boundaries of such easements shall be a minimum distance of ten (10) feet from the center line of the facilities to be dedicated to the City.
- (e) Joining the sanitary sewer system. All properties within 200 feet of a public sanitary sewer shall be required to join the City facilities. Where a soil report indicates a private sanitation system is not acceptable or where damage to the ground water quality would occur, a property shall be required to join the City sanitary sewer system.
- (f) Private sanitary sewers. Private sanitary sewers shall be prohibited in the Hillside Residential

(HR), Single-Family-10,000 (RS-10,000), Single-Family-7,000 (RS-7,000), Single-Family-4,000 (RS-4,000), Residential Garden-7,000 (RG-7,000), Residential Garden-4,000 (RG-4,000), Multiple-Family (RM), Affordable Family/Senior Housing (AF/SH), Mobilehome Park (MHP), Planned Community (PC), and Specific Plan/Precise Plan (SP/PP) Districts. Where otherwise permitted, private sanitary sewers shall be constructed of materials approved by the City Engineer and shall be no smaller than six (6) inches in internal diameter. Permission for private sanitary sewers shall be granted by the City only where there are no City sanitary sewers within 200 feet of the closest property in question and no more than twelve (12) units will use the private sewer at any time. The capability and intent to maintain private sewers shall be provided the City Engineer in the form of legal documents fixing such responsibility.

- (g) Sewer laterals. Sewer laterals shall be less than eight (8) inches in internal diameter and serve no more than one structure, if approved by the City Engineer. Sewer laterals shall not serve more than one property owner. Under no circumstance shall a sewer lateral join another sewer lateral. Sewer laterals shall directly join the structure served to the mainline sanitary sewer.
- (h) Private sanitation system. Private sanitation systems may be permitted by the City Engineer and Orange County Health Service Standards in the Agri-Business (A), Residential/Agriculture (RA), Single-Family-40,000 (RSE-40,000), Single-Family-20,000 (RSE-20,000), Open Space Recreation (OSR), and Specific Plan/Precise Plan (SP/PP) Districts only if all of the following criteria are met:
- (1) No public sanitary sewer with sufficient capacity shall be within 200 feet of the property.
 - (2) A soil report and percolation tests prepared by a civil engineer and engineering geologist registered in the State shall recommend, without exception, the installation of a private sanitation system.
 - (3) The system shall meet the provisions of the County Health Care Agency and the City shall approve the installation of said system.
 - (4) There shall be confirmation that no detrimental change shall occur in the ground water quality.
 - (5) The installation shall be acceptable to the City Engineer:
- (i) Reimbursement agreements. The City may require the construction and dedication of sanitary sewer facilities across the full public frontage of a development site of sufficient size to provide service for future development. The City may enter into a reimbursement agreement with the developer if development may occur on the opposite side of the project frontage.

If the City enters into such an agreement, a public meeting shall be held to determine the funds required and the area of benefit from the subject facilities. A copy of the standard City reimbursement agreement is on file and available at the City offices.

(§ 7.11.11 (part) Ord. 938, 01 July 3, 2008)