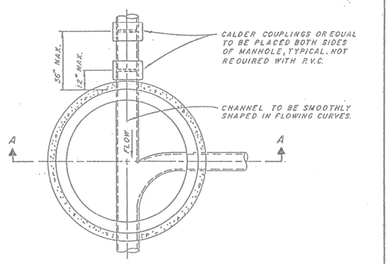

SANITARY SEWER MANHOLE DETAIL

NOTES:

1. THE INVERT OUT OF THE MANHOLE SHALL BE 0.10 FEET BELOW THE INVERT (S) INTO THE MANHOLE.
2. THE ELEVATION OF EACH INLET PIPE SHALL BE SET BY ADJUSTING THE GRADE OF THE INLET PIPE OR EMPLOYING A VERTICAL CURVE TO MAINTAIN THE 0.10 FOOT DROP.
3. IF THE ELEVATION DIFFERENCE BETWEEN THE INLET AND OUTLET IS TO EXCEED 36 INCHES, AN SS-03 DROP MANHOLE MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.
4. MANHOLE BASE SHALL BE PRECAST EXCEPT AS ALLOWED UNDER NOTE 5.
5. A CAST IN PLACE BASE MAY BE USED ONLY IF CONDITIONS PRECLUDE THE USE OF A PRECAST BASE AND ONLY WITH THE PRIOR APPROVAL OF THE DIRECTOR OF PUBLIC WORKS. A CAST IN PLACE BASE SHALL MEET THE FOLLOWING REQUIREMENTS:
   A. THE BASE SHALL BE CAST IN A SINGLE POUR.
   B. ALL CONCRETE USED SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A SLUMP OF 2 INCHES.
   C. THE BARREL OR A RING FORM TEMPLATE MUST BE USED TO MAKE AN INDENTATION IN THE BASE OR, AT THE OPTION OF THE CONTRACTOR, THE FIRST BARREL MAY BE PLACED DIRECTLY IN THE WET BASE AND THE CONCRETE MOUNDED 4 INCHES ABOVE THE JOINT AND PACKED TIGHTLY BOTH INSIDE AND OUTSIDE OF THE BARREL.
6. MANHOLE SHALL BE LEAK TESTED PER CITY SPECIFICATIONS.

NOTES CONTINUED ON SHEET 2 of 3 (SS-02)

CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR SANITARY SEWER MANHOLE	REVISIONS 4-23-92
DRAWN BY: T.F.	APPROVED BY: CITY ENGINEER R.C.E. 41077
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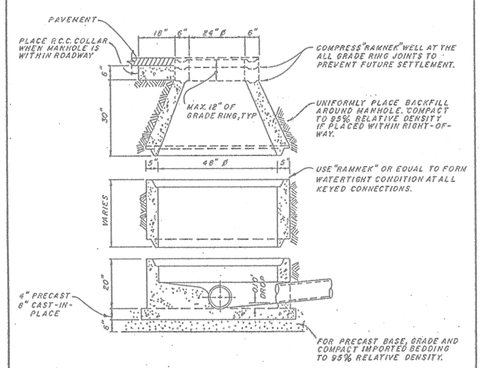
SS-02	

NOTES CONTINUED:

7. FINAL RIM ELEVATION OF MANHOLE TO BE ESTABLISHED IN FIELD.
8. TOP OF MANHOLE TO BE FITTED WITH STANDARD SS-05 OR SS-06 ASSEMBLY.
9. WHEN MANHOLE IS LOCATED OUTSIDE OF PAVED AREAS, CEMENT GROUT SHALL BE PLACED AROUND CIRCUMFERENCE OF CASTING AND UPPERMOST GRADE RING AS DIRECTED BY THE ENGINEER.



SANITARY SEWER MANHOLE DETAIL
SECTION AA

CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR SANITARY SEWER MANHOLE	REVISIONS 4-23-92
DRAWN BY: T.F.	APPROVED BY: CITY ENGINEER R.C.E. 41077
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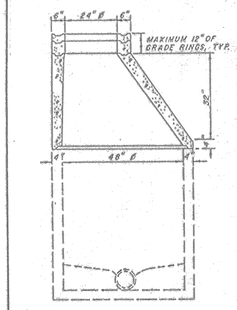
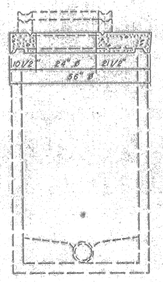


OPTIONAL
ECCENTRIC CONE SECTION



OPTIONAL
FLAT LID SECTION

CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR SANITARY SEWER MANHOLE	REVISIONS 4-23-92
DRAWN BY: T.F.	APPROVED BY: CITY ENGINEER R.C.E. 41077
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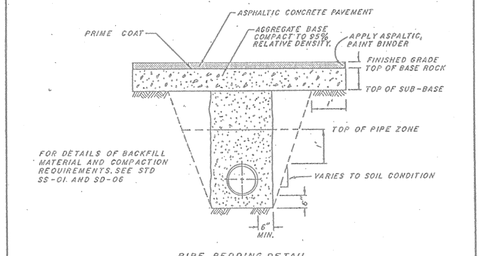

PIPE BEDDING DETAIL

1. AGGREGATE BASE SHALL BE COMPACTED WITH OPTIMUM MOISTURE CONTENT TO 95% RELATIVE COMPACTION.
2. DEPTH OF ASPHALT CONCRETE:
   RESIDENTIAL STREET: 2 LANE: 3", 4 LANE: 4"
   COMMERCIAL STREET: 2 LANE: 3", 4 LANE: 4"
   INDUSTRIAL STREET: 2 LANE: 3", 4 LANE: 4"
3. DEPTH OF AGGREGATE BASE:
   RESIDENTIAL STREET: 2 LANE: 8", 4 LANE: 10"
   COMMERCIAL STREET: 2 LANE: 8", 4 LANE: 10"
   INDUSTRIAL STREET: 10"
4. DEPTHS OF ASPHALT CONCRETE AND AGGREGATE BASE SPECIFIED IN NOTES 2 AND 3 ARE MINIMUM ALLOWABLE. SPECIFIC STREET LOCATIONS MAY REQUIRE ADDITIONAL DEPTH PURSUANT TO THE REQUIREMENTS OF THE ENGINEER.

CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS STANDARD FOR PAVEMENT REPLACEMENT	REVISIONS 10-3-90 8-2-93
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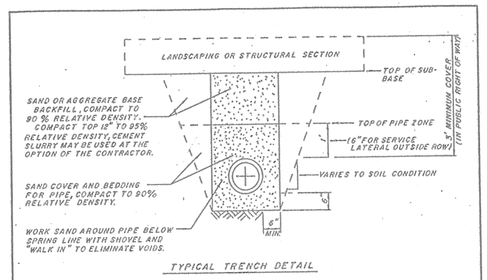
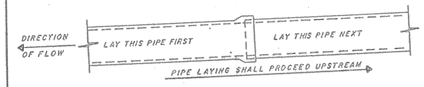
ST-12	



TYPICAL TRENCH DETAIL

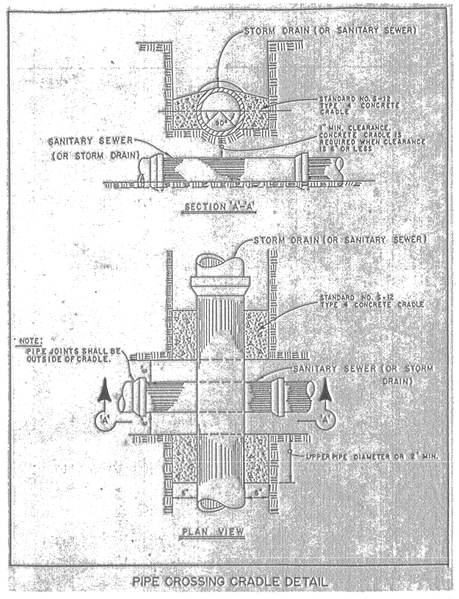


PIPE LAYING DETAIL

NOTES:

1. SERVICE LATERALS MUST BE AT LEAST 4" IN DIAMETER. ALL OTHER LINES MUST BE AT 6" IN DIAMETER.
2. THE LENGTH OF SERVICE LATERAL WHICH EXTENDS BEYOND THE PUBLIC RIGHT OF WAY DOES NOT REQUIRE COMPACTED BACKFILL ABOVE THE TOP OF PIPE ZONE UNLESS PAVEMENT IS TO BE PLACED ABOVE IT.
3. SAND BED MUST BE LAID BEFORE PIPE.
4. PIPE MAY BE SHADED BEFORE INSPECTION. HOWEVER, JOINTS MUST BE EXPOSED.
5. FABRICATED JOINTS SHALL NOT BE USED.
6. REFER TO STD ST-12 FOR PAVEMENT REPLACEMENT.

CITY OF OROVILLE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR TRENCH DETAIL AND LAYING SANITARY SEWER PIPE	REVISIONS 5-4-92 8-2-93
DRAWN BY: T.F.	APPROVED BY: CITY ENGINEER R.C.E. 41077
DATE: 6/14/93	SHEET: 1 of 1
SS-01	



PIPE CROSSING CRADLE DETAIL

REGISTERED PROFESSIONAL ENGINEER MICHAEL S. BYRD No. 22308 CIVIL STATE OF CALIFORNIA
REGISTRATION EXPIRES 3-31-95

Designed MSB	Approved	PREPARED FOR: NACHT & LEWIS, ARCHITECTS 7300 FOLSOM BLVD., SUITE 200 SACRAMENTO, CA. PROJECT NO. 3570.06	Rolls, Anderson & Rolls CIVIL ENGINEERS 965 FIR STREET • CHICO, CALIFORNIA 95928 • TELEPHONE 916 895-1822	BUTTE COUNTY JAIL EXPANSION DETAILS	Drawing No. 2 OF 2 Job No. 92160A
Drawn RAP	Date JULY, 1993				
Checked BAN					

SS-345