## Detail 19A — SDR-35 x C900 BELL x SPIGOT ADAPTERS



| SIZE | CATALOG NO. | A | B | C | D | E | F | G | H | CT | PT |
|------|------------|-----|------|------|------|------|------|------|-----|-----|-----|
| 4" | 334-040 | 4.56 | 8.23 | 4.25 | 4.10 | 3.94 | 4.80 | 2.72 | 2.7 | .32 | .25 |
| 6" | 334-060 | 6.68 | 9.93 | 6.31 | 4.57 | 5.88 | 6.90 | 3.72 | 3.5 | .45 | .36 |

**Duckett Creek Sanitary District**
SDR-35 x C900 BELL AND SPIGOT ADAPTERS
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-3-01 · Detail No. 19A

## Detail 19B — SDR-35 x C900 BELL x SPIGOT ADAPTERS



HARCO STYLE · FABRICATED STYLE
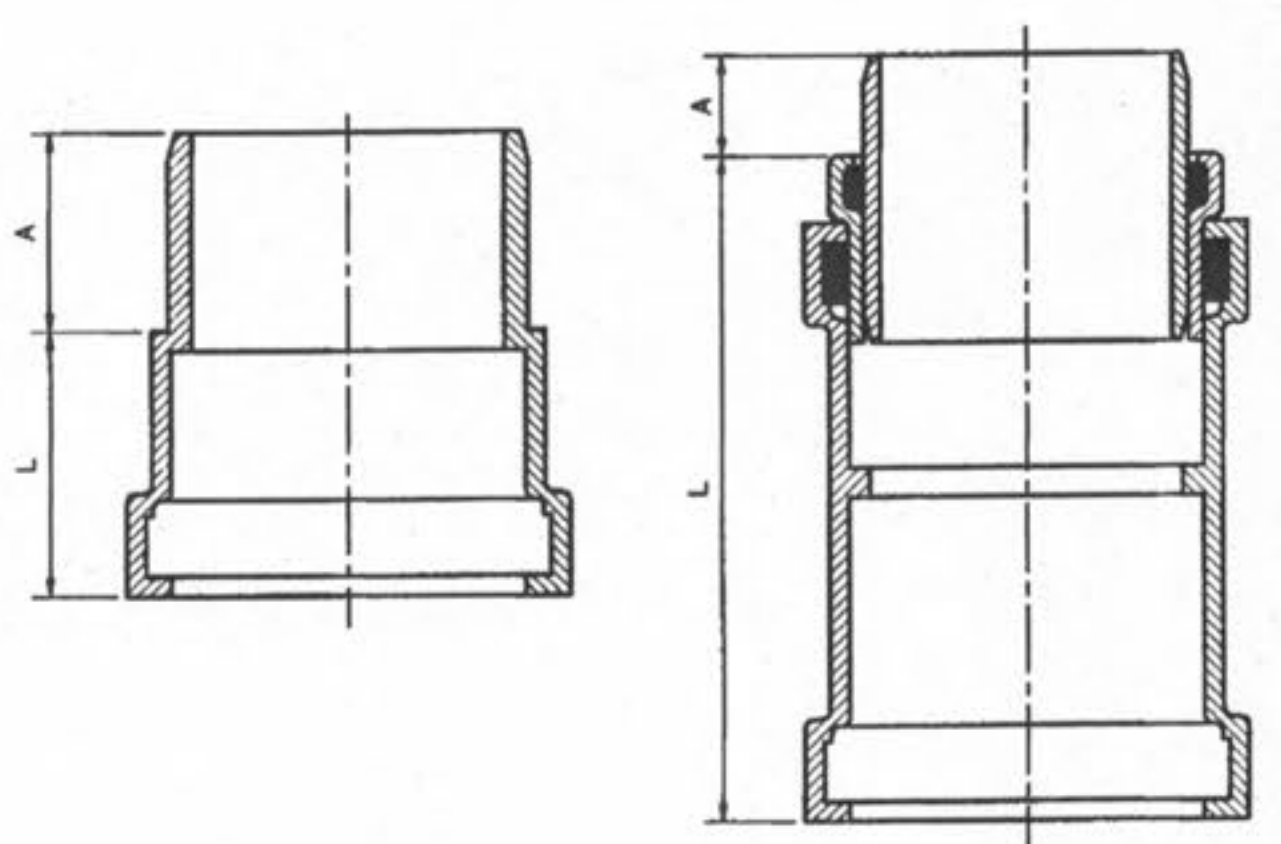
| SIZE | CATALOG NO. | A | L | STYLE |
|------|------------|-----|------|------------|
| 4" | 335-040 | 3.2 | 10.0 | FABRICATED |
| 6" | 335-060 | 2.9 | 3.5 | HARCO |
| 8" | 335-080 | 4.0 | 12.5 | FABRICATED |

**Duckett Creek Sanitary District**
SDR-35 x C900 BELL AND SPIGOT SPECIAL 4", 6" & 8" ADAPTERS
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-3-01 · Detail No. 19B
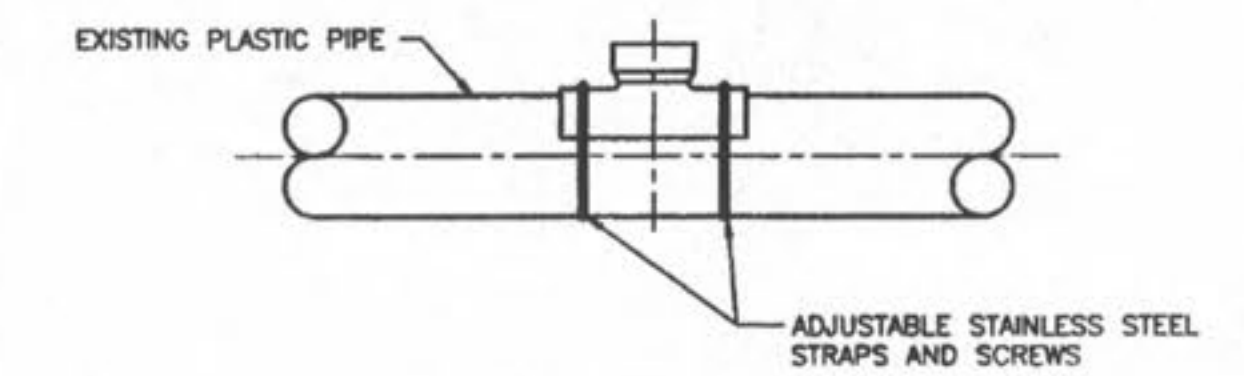
## Detail 19C — SDR-35 x C900 BELL x BELL ADAPTERS
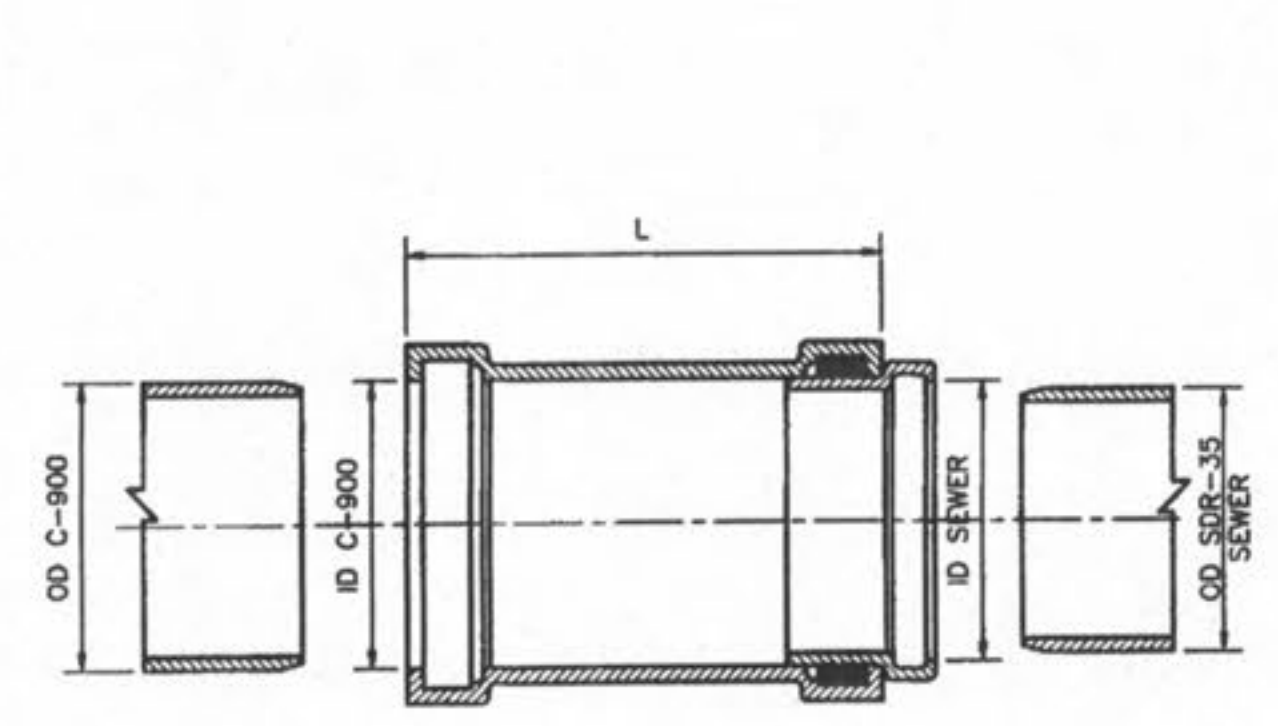


| SIZE | CATALOG NO. | OD C900 | OD SEWER | ID C900 | ID SEWER | L | CTN QTY | CTN WT |
|------|------------|---------|----------|---------|----------|-------|---------|--------|
| 4x4 | 337-040 | 4.80 | 4.215 | 4.86 | 4.25 | 10.0 | 1 | 4 |
| 6x6 | 337-060 | 6.90 | 6.275 | 6.96 | 6.32 | 11.13 | 1 | 8 |
| 8x8 | 337-080 | 9.05 | 8.400 | 9.13 | 8.45 | 12.50 | 1 | 15 |

**Duckett Creek Sanitary District**
SDR-35 x C900 BELL AND BELL 4", 6" & 8" ADAPTERS
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-3-01 · Detail No. 19C

## Detail 20A — PLASTIC SADDLE TEE OR WYE FITTING (SOLVENT WELD)



EXISTING PLASTIC PIPE — ADJUSTABLE STAINLESS STEEL STRAPS AND SCREWS

WHEN CONNECTION TO A PLASTIC PIPE IS ALLOWED AND A CONNECTION IS LARGER THAN 6" IN DIAMETER. A SOLVENT WELD WYE OR TEE FITTING OF A SIMILAR MATERIAL MUST BE USED. (EXAMPLE: 10" x 8")

THIS IS ACCOMPLISHED BY CAREFULLY CUTTING A HOLE WITH A SAW IN THE MAIN AT THE REQUIRED LOCATION AFTER CUTTING AND SHAPING THE HOLE TO THE SIZE OF THE FITTING. THE FOLLOWING STEPS SHOULD BE TAKEN.

1. CLEAN AND DRY BOTH INSIDE THE SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
2. IMPORTANT: APPLY A LIBERAL, HEAVY COAT OF ONE-STEP SOLVENT CEMENT TO THE INSIDE SURFACE OF THE SADDLE WYE AND TO THE EXTERIOR WELDING SURFACE TO THE PIPE.
3. WITHOUT DELAY, MATE THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD OF SOLVENT SHOULD APPEAR AFTER THE SADDLE HAS BEEN STRAPPED DOWN TIGHTLY.
4. USING A RAG OR PAPER TOWEL, WIPE BEAD AND ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
5. ALLOW 30-60 MINUTES FOR SET-UP TIME BEFORE BACKFILLING. CURE TIME DEPENDS ON SIZE FIT OF MATERIALS BEING INSTALLED AND VARIOUS COLD DAMP CONDITIONS.
6. DISCARD OLD SOLVENT IF IT BECOME JELLED OR LUMPY.
7. A CLEAN, DRY BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL SHOULD BE ONE OF THE FOLLOWING.
   A. 1 TO 3 CEMENT TO SAND MIX
   B. "PRE-MIX" CONCRETE.
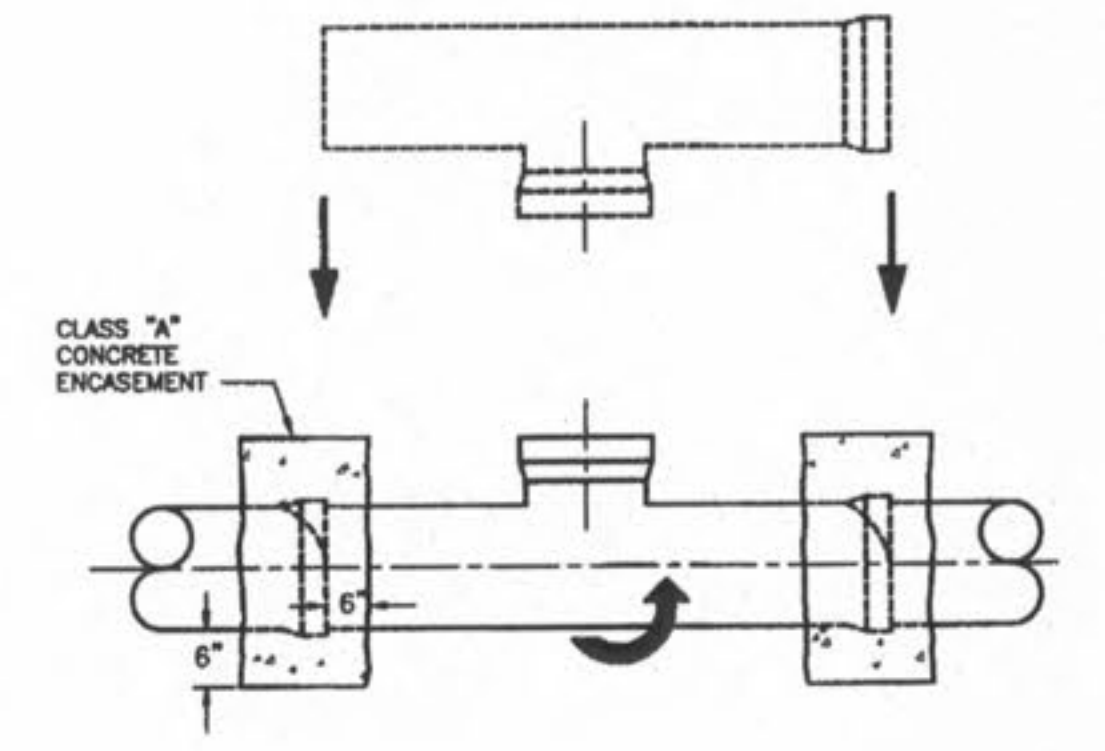   C. DCSD APPROVED BEDDING FOR SANITARY SEWERS.

**Duckett Creek Sanitary District**
8" & LARGER CONNECTION TO PLASTIC MAIN
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-4-01 · Detail No. 20A

## Detail 20B — INSERTA TEE

THE USE OF AN INSERTA TEE REQUIRES DISTRICT APPROVAL.



PVC · PLASTIC PROFILE WALL · CONCRETE
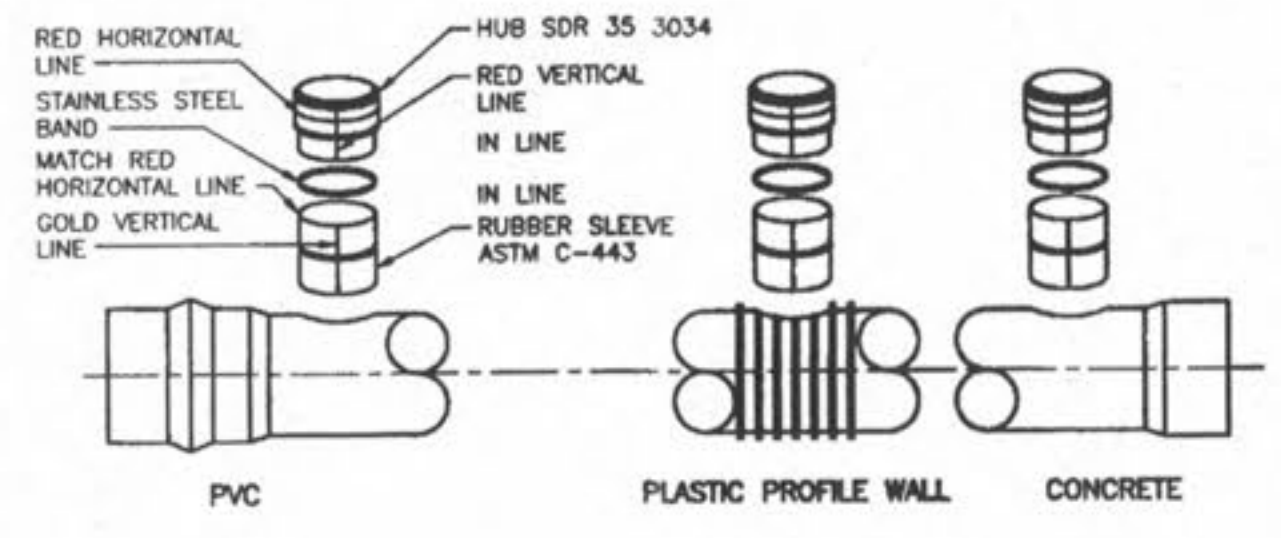
INSTALLATION PROCEDURE:

| TEE SIZE: | 4" | 6" | 8" | 10" | 12" | 15" |
| BIT SIZE: | 4¼" | 6½" | 8¾" | 10⅞" | 12⅞" | 15⅞" |

1. CORE THE PROPER SIZE HOLE.
2. INSERT THE RUBBER SLEEVE (1) IN THE CORED HOLE WITH THE GOLD VERTICAL LINE ON THE RUBBER SLEEVE (2) FACING TO THE SIDE OF THE MAIN LINE. THE UPPER SEGMENT SHOULD BE ON TOP OF THE WALL OR RIB AND THE LOWER SEGMENT (PVC, PROFILE WALL, AND POLYETHYLENE PIPE ONLY) SHOULD BE ON THE INSIDE OF THE PIPE.
3. APPLY THE INSERTA TEE SOLUTION SUPPLIED TO THE INSIDE OF THE RUBBER SLEEVE AND TO THE OUTSIDE OF THE PVC HUB ADAPTER. CAUTION — DO NOT USE AN OIL BASED LUBRICANT.
4. PLACE THE PVC HUB ADAPTER (3) INTO THE RUBBER SLEEVE. MAKE SURE THAT THE RED VERTICAL LINE (4) ON THE PVC HUB ADAPTER IS IN LINE WITH THE GOLD VERTICAL LINE (2) ON THE RUBBER SLEEVE.
5. PLACE THE 2x4 BOARD ONTO THE TOP OF THE PVC HUB ADAPTER.
6. THE RED HORIZONTAL LINE (5) AT THE TOP OF THE HUB ADAPTER IS A DEPTH MARK. THIS TELLS THE INSTALLER HOW FAR TO DRIVE THE ADAPTER INTO THE RUBBER SLEEVE. DRIVE THE PVC HUB ADAPTER INTO THE RUBBER SLEEVE TO WHERE THE HORIZONTAL RED LINE (5) IS IN LINE WITH THE PVC HUB ADAPTER (3) MEETS THE TOP OF THE RUBBER SLEEVE (6).
7. PLACE THE STAINLESS STEEL BAND (7) AROUND THE TOP OF THE RUBBER SLEEVE AND TIGHTEN DOWN.
8. INSTALL PIPE IN NORMAL MANNER.

**Duckett Creek Sanitary District**
INSERTA TEE DETAILS AND SPECIFICATIONS
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-4-01 · Detail No. 20B

## Detail 21 — "ROLL-IN" (FOR EXISTING CLAY OR CONCRETE PIPE)



NOTES:

1. WHEN A CONNECTION IS ALLOWED LARGER THAN 6" DIAMETER A SADDLE MAY BE USED IF THE I.D. OF THE CONNECTION PIPE IS NOT GREATER THAN ONE HALF (1/2) THE I.D. OF THE MAIN SEWER. (EXAMPLE: 24" x 10")
2. IF THE I.D. OF THE CONNECTION PIPE IS GREATER THAN ONE HALF (1/2) THE I.D. OF THE MAIN SEWER THE WYE OR TEE MUST BE "ROLLED IN". (EXAMPLE: 15" x 8")
3. THIS IS ACCOMPLISHED BY BREAKING AWAY AND REMOVING ONE SECTION OF PIPE. THE TOP HALF OF THE BELL ON THE PIPE LYING ADJACENT TO THE GAP IS CAREFULLY BROKEN OFF. THE TOP HALF OF THE BELL ON THE MAIN REPLACEMENT SECTION (WITH A "TEE" "WYE") FITTING IS ALSO BROKEN OFF. REPLACEMENT PIPE IS THEN PLACED IN THE LINE GAP WITH THE STUB POINTED IN THE WRONG DIRECTION. THE BROKEN BELLS ON THE REPLACEMENT AND ADJOINING PIPE MAKE IT POSSIBLE FOR THE REPLACEMENT SECTION TO FIT INTO THE SEWER LINE WITHOUT DISTURBING THE ADJOINING PIPE SECTIONS. THE REPLACEMENT SECTION IS THEN ROTATED TO THE DESIRED POSITION AND THE BROKEN BELLS ARE ENCASED WITH A 6" CLASS "A" CONCRETE ENCASEMENT.
4. ID OF MAIN SEWER SHALL NOT BE DECREASED BY A ROLL-IN CONNECTION.

**Duckett Creek Sanitary District**
"ROLL-IN" (FOR EXISTING CLAY OR CONCRETE PIPE)
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-5-01 · Detail No. 21

## Detail 22 — FORCE MAIN CLEANOUT (6" DIA. & SMALLER)



APPROVED CLOSURES ON 1/8" BEND
CLASS "A" CONCRETE ENCASEMENT 6" MIN.
PIPE TO BE 6" IN DIAMETER
WILL REQUIRE SMOOTH TRANSITION REDUCER AT EACH END IF LINE SIZE IS LESS THAN 6"
ALL PIPE TO BE DUCTILE IRON PIPE
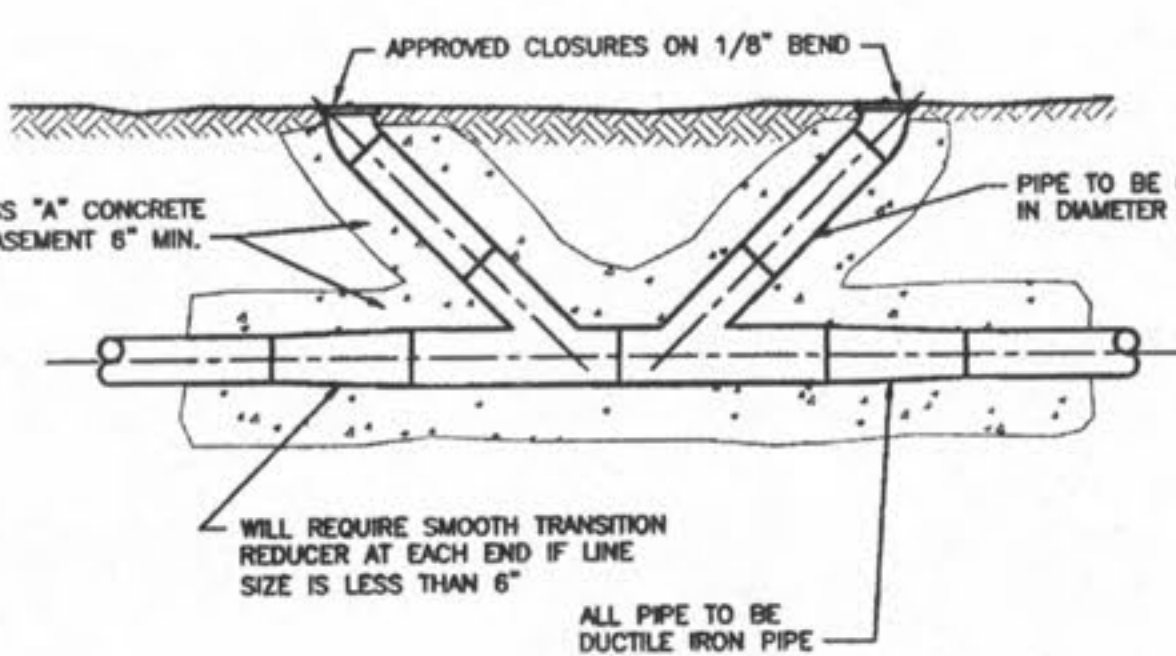
**Duckett Creek Sanitary District**
FORCE MAIN CLEANOUT (6" DIA. & SMALLER)
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-5-01 · Detail No. 22

## Detail 23 — ROADWAY BORING DETAIL



**BORING DETAIL**
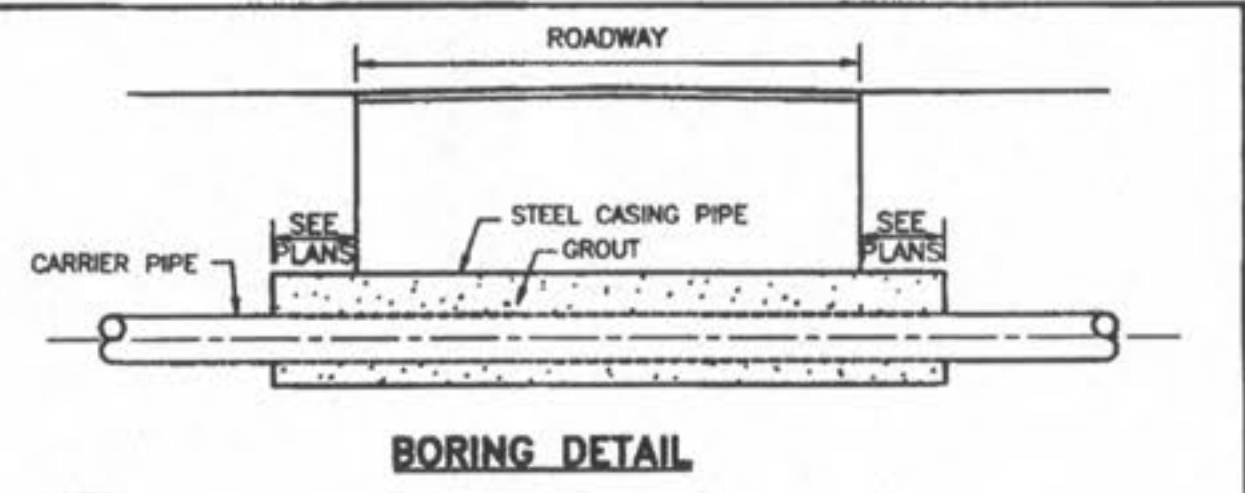
NOTES:

1. INSIDE DIAMETER OF CASING PIPE TO BE MINIMUM OF 4" GREATER THAN COUPLING DIAMETER OF CARRIER PIPE.
2. ENCASEMENTS TO BE INSTALLED UNDER THE ROAD BY MEANS OF JACKING IT THROUGH, OR BY DRY BORING A HOLE THAT WILL RECEIVE THE CASSING WITH A SNUG FIT.
3. THE OUTSIDE DIAMETER OF THE CASING SHALL NOT BE LESS THAN, NOR MORE THAN ONE INCH GREATER THAN THE BORED HOLE.
4. THE ANNULAR SPACE BETWEEN THE CASING PIPE AND THE BORED HOLE SHALL BE FILLED WITH GROUT.

**SUPPORT OF CARRIER PIPE OR FORCE MAIN IN CASING**

SECTION A-A'
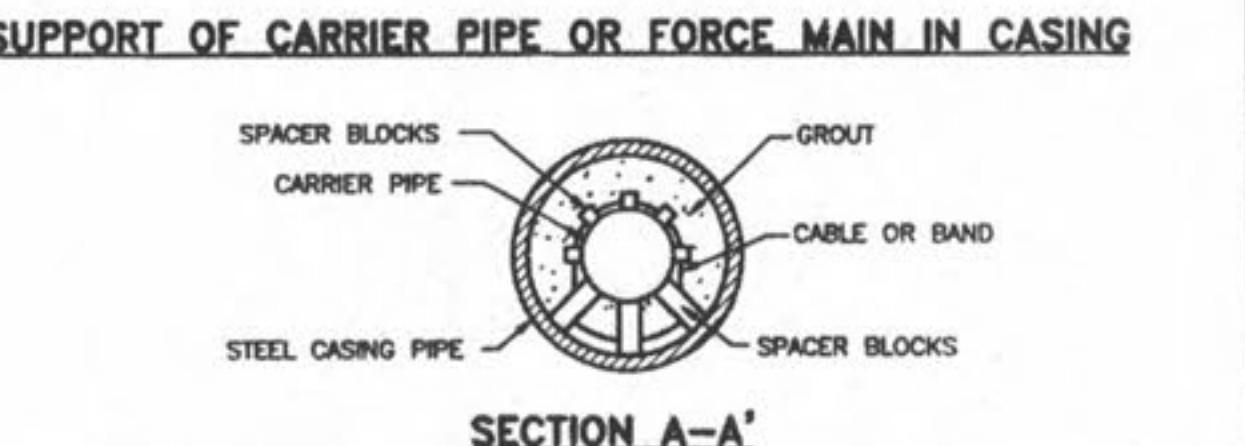
**Duckett Creek Sanitary District**
ROADWAY BORING DETAIL
Dwn By: BSM · App By: KLA · Ckd By: MDOB · Date: 1-5-01 · Detail No. 23

REVISIONS