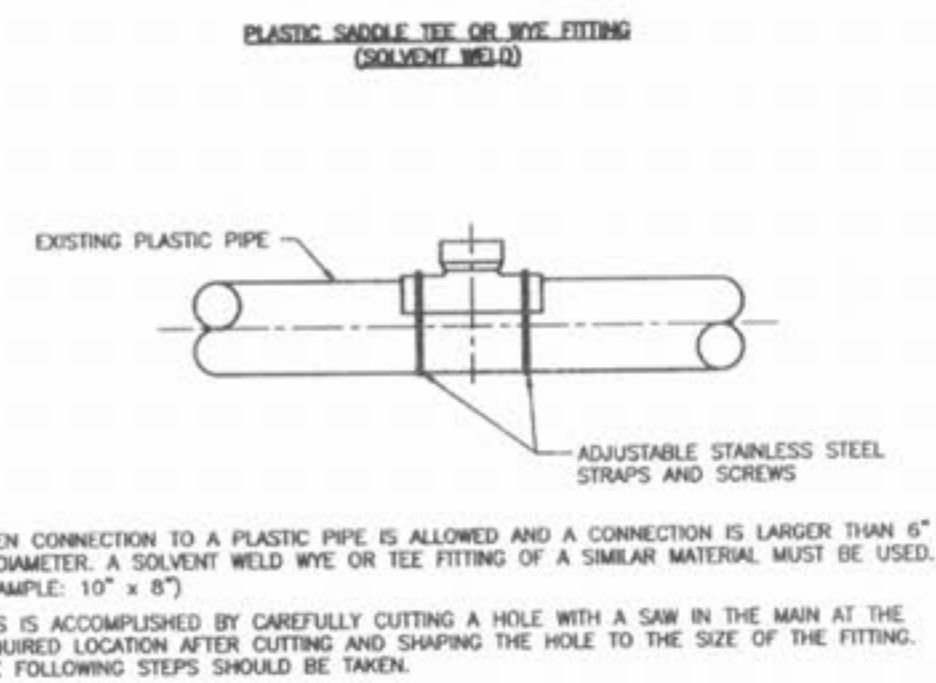


SIZE	CATALOG NO.	OD	ID	L	CTN QTY	CTN WT
4x4	337-040	4.50	4.215	4.86	4.25	10.0
6x6	337-060	6.90	6.275	6.98	6.32	11.13
8x8	337-080	9.05	8.400	9.13	8.45	12.50

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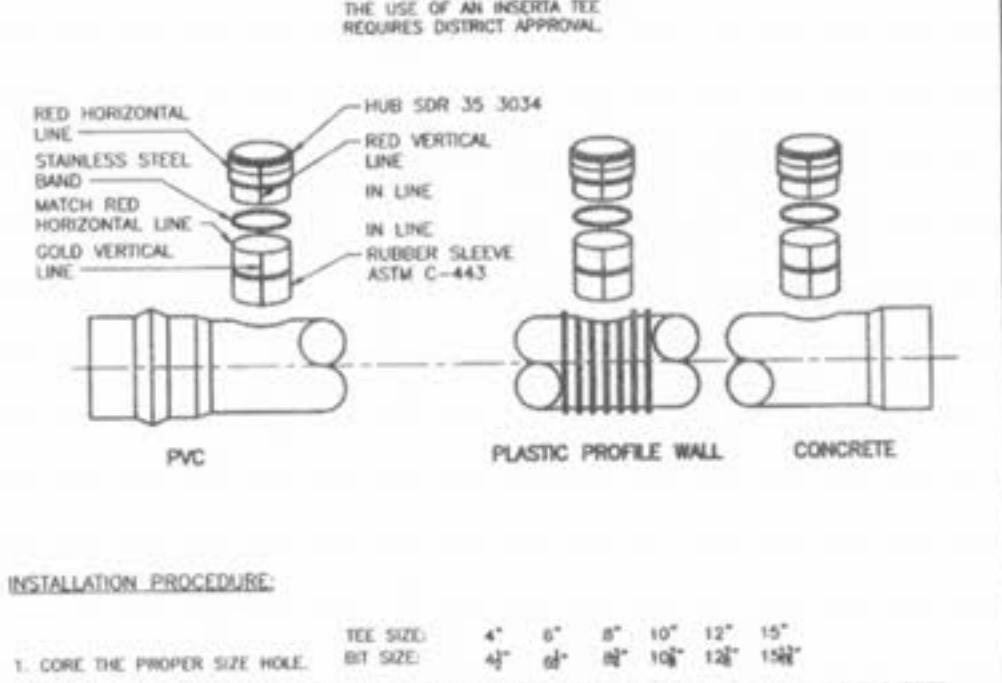
SR-35 x C900 BELL AND BELL 4", 6" & 8" ADAPTERS
Sheet No: BSM, Date: 1-9-01, Detail No: 19C



- 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 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.
- CLEAN AND DRY BOTH INSIDE THE SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
 - IMMEDIATELY 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.
 - WITHOUT DELAY, MATE THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD OF SOLVENT SHOULD APPEAR AFTER THE SADDLE HAS BEEN STRAPPED TOGETHER.
 - USING A RAG OR PAPER TOWEL, WIPE AWAY ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
 - 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.
 - DISCARD OLD SOLVENT IF IT BECOMES JELLED OR LUMPY.
 - A CLEAN, DRY BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL SHOULD BE ONE OF THE FOLLOWING:
 - 1 TO 3 GROUND TO SAND MIX
 - "TYPE-40" CONCRETE
 - ODD APPROVED BEDDING FOR SANITARY SEWERS

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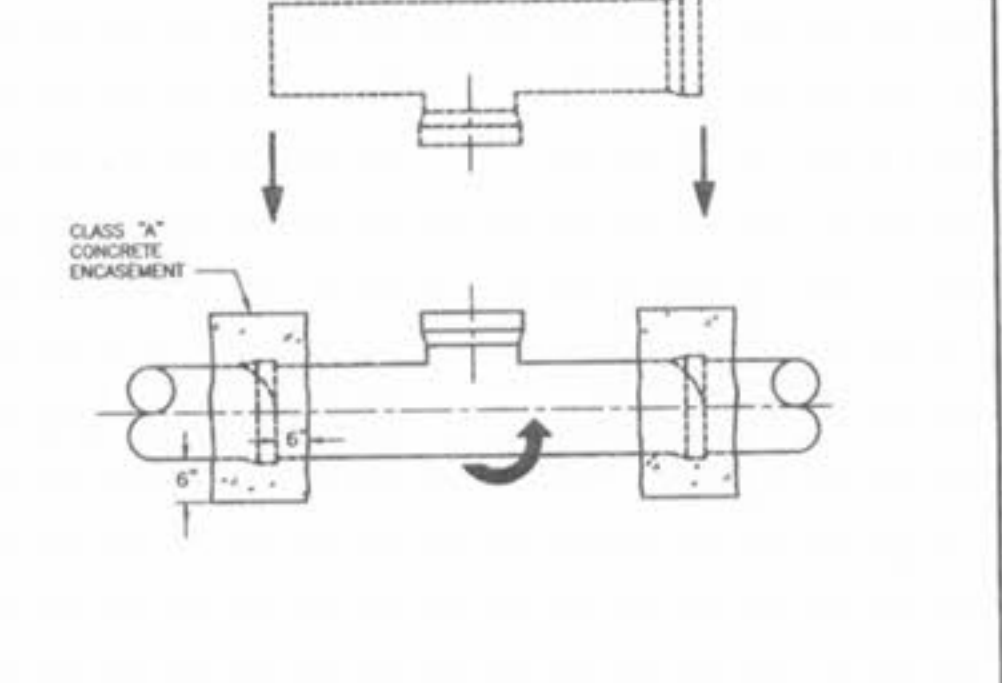
8" & LARGER CONNECTION TO PLASTIC MAIN
Sheet No: BSM, Date: 1-4-01, Detail No: 20A



- INSTALLATION PROCEDURE:
- CORE THE PROPER SIZE HOLE. HOLE SIZE: 4" 6" 8" 10" 12" 15" BIT SIZE: 4" 6" 8" 10" 12" 15"
 - 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 SOB AND THE LOWER SEGMENT (PVC PROFILE WALL, AND POLYETHYLENE PIPE ONLY) SHOULD BE ON THE INSIDE OF THE PIPE.
 - 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.
 - 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.
 - PLACE THE 2x4 BOARD ON TOP OF THE PVC HUB ADAPTER.
 - 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) ON THE PVC HUB ADAPTER (3) MEETS THE TOP OF THE RUBBER SLEEVE (2).
 - PLACE THE STAINLESS STEEL BAND (7) AROUND THE TOP OF THE RUBBER SLEEVE AND TIGHTEN DOWN.
 - INSTALL PIPE IN NORMAL MANNER.

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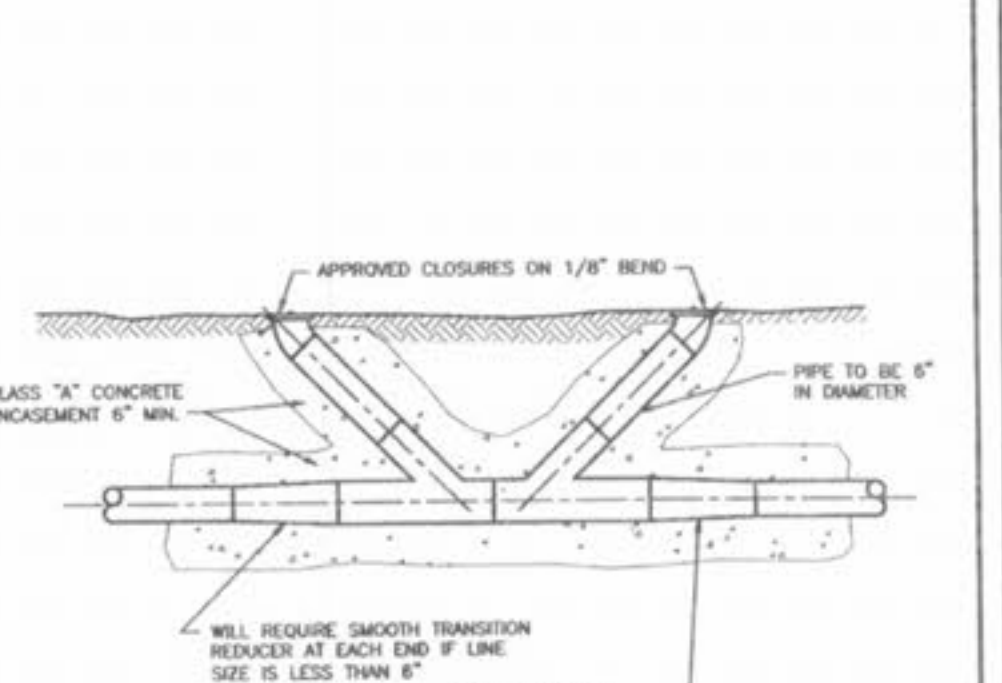
INSERTA TEE DETAILS AND SPECIFICATIONS
Sheet No: BSM, Date: 1-4-01, Detail No: 20B



- NOTES:
- 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) OF THE I.D. OF THE MAIN SEWER. (EXAMPLE: 24" x 10")
 - IF THE I.D. OF THE CONNECTION PIPE IS GREATER THAN ONE HALF (1/2) OF THE I.D. OF THE MAIN SEWER THE WYE OR TEE MUST BE "BOLDED IN". (EXAMPLE: 15" x 8")
 - THIS IS ACCOMPLISHED BY BREAKING AWAY AND REMOVING ONE SECTION OF PIPE. THE TOP HALF OF THE BELL ON THE MAIN LIVING 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. THE REPLACEMENT PIPE IS THEN PLACED IN THE LINE GAP WITH THE STRIP POINTED IN THE WIDING 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.
 - I.D. OF MAIN SEWER SHALL NOT BE DECREASED BY A ROLL-IN CONNECTION.

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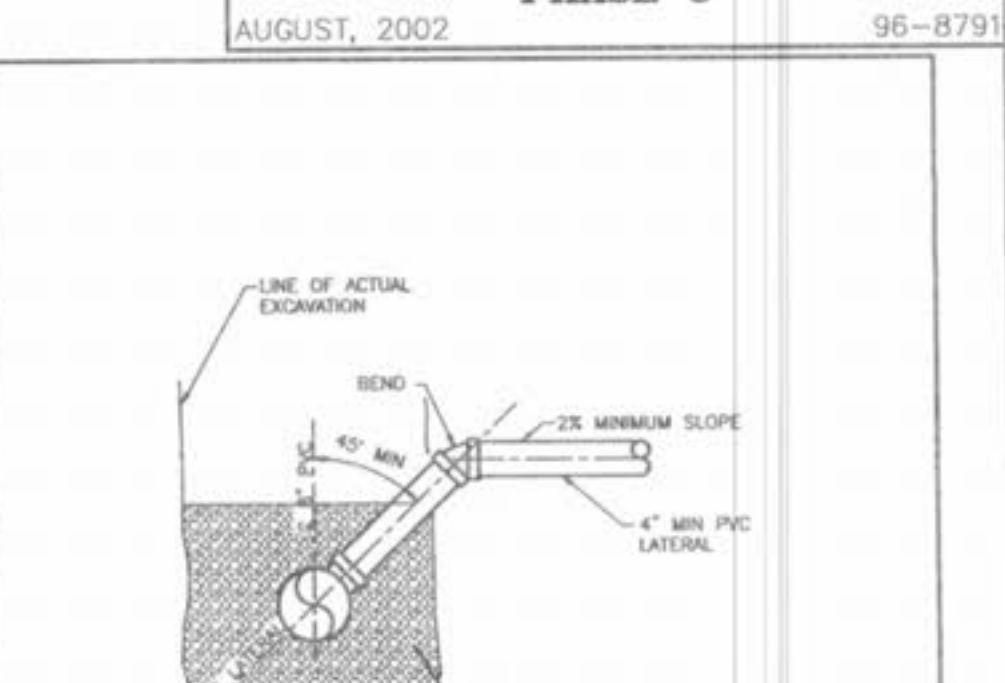
ROLL-IN (FOR EXISTING CLAY OR CONCRETE PIPE)
Sheet No: BSM, Date: 1-5-01, Detail No: 21



- NOTES:
- 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

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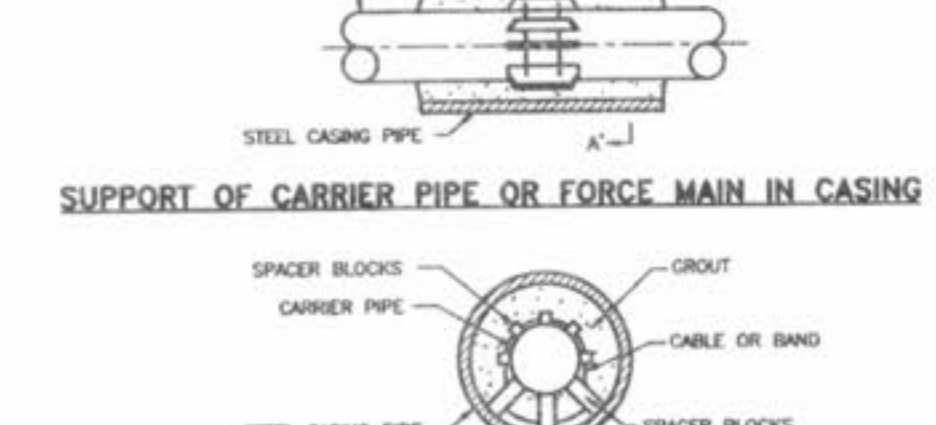
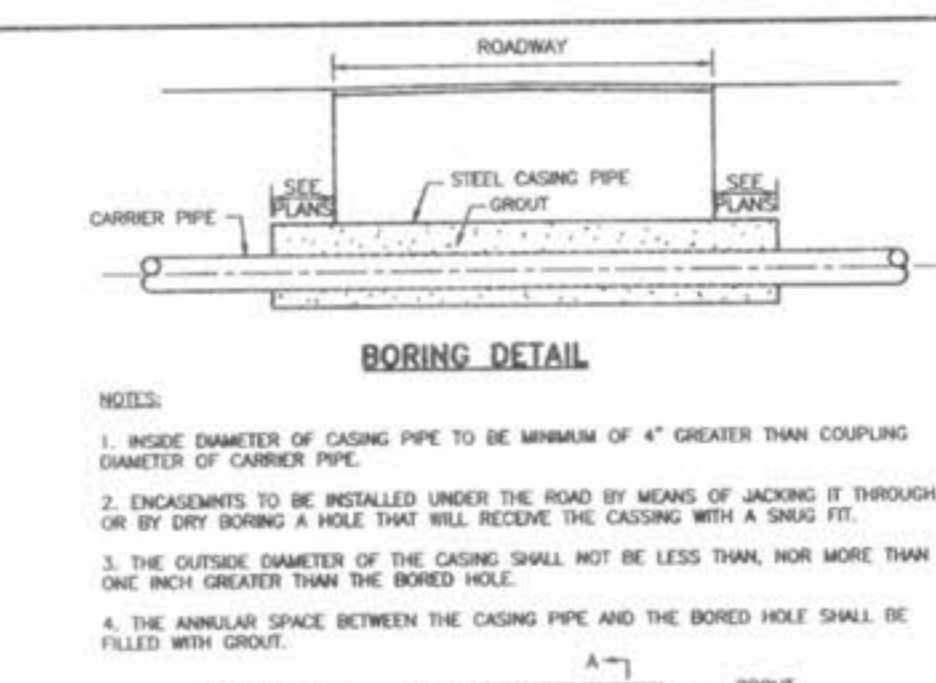
FORCE MAIN CLEANOUT (6" DIA. & SMALLER)
Sheet No: BSM, Date: 1-5-01, Detail No: 22



- NOTES:
- LINE OF ACTUAL EXCAVATION
 - BEND
 - 2% MINIMUM SLOPE
 - 4" MIN PVC LATERAL
 - PROVIDE ODD TYPICAL GRANULAR BEDDING TO SUPPORT LATERAL WITHIN LINE OF ACTUAL EXCAVATION

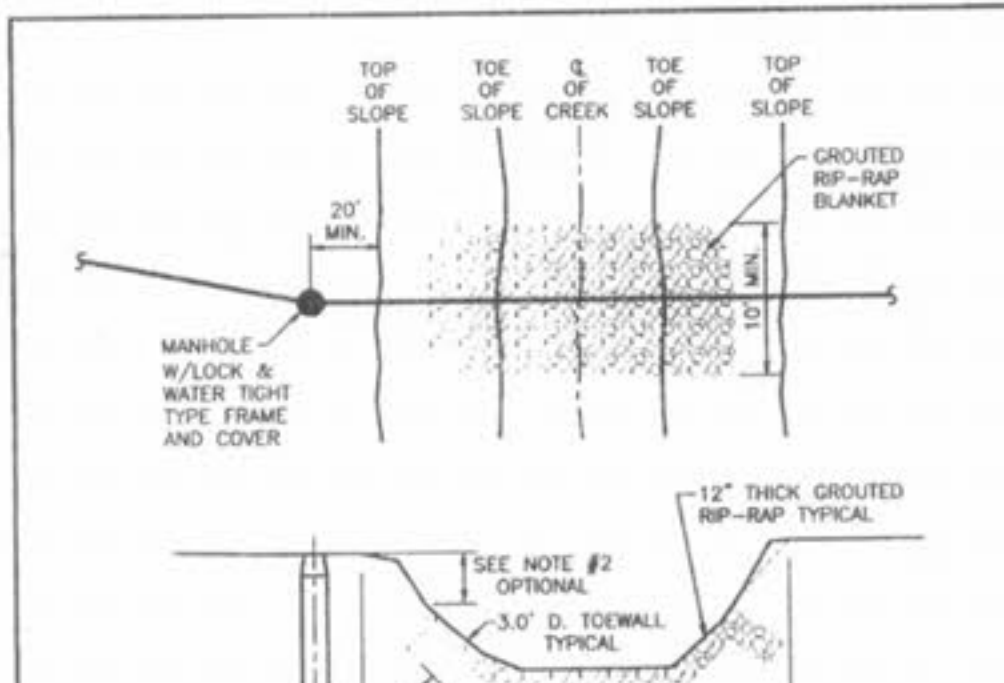
DUCKETT CREEK SANITARY DISTRICT

SANITARY SEWER LATERAL RISER DETAIL
Sheet No: BSM, Date: 1-9-01, Detail No: 27



DUCKETT CREEK SANITARY DISTRICT

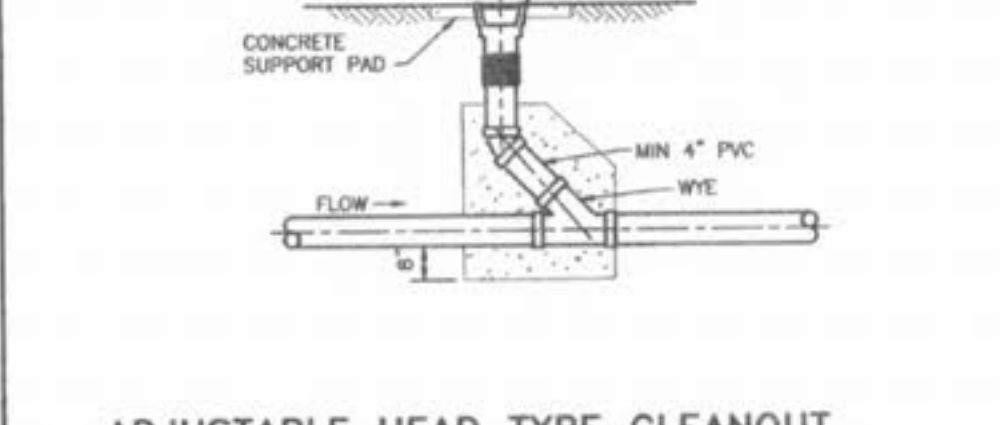
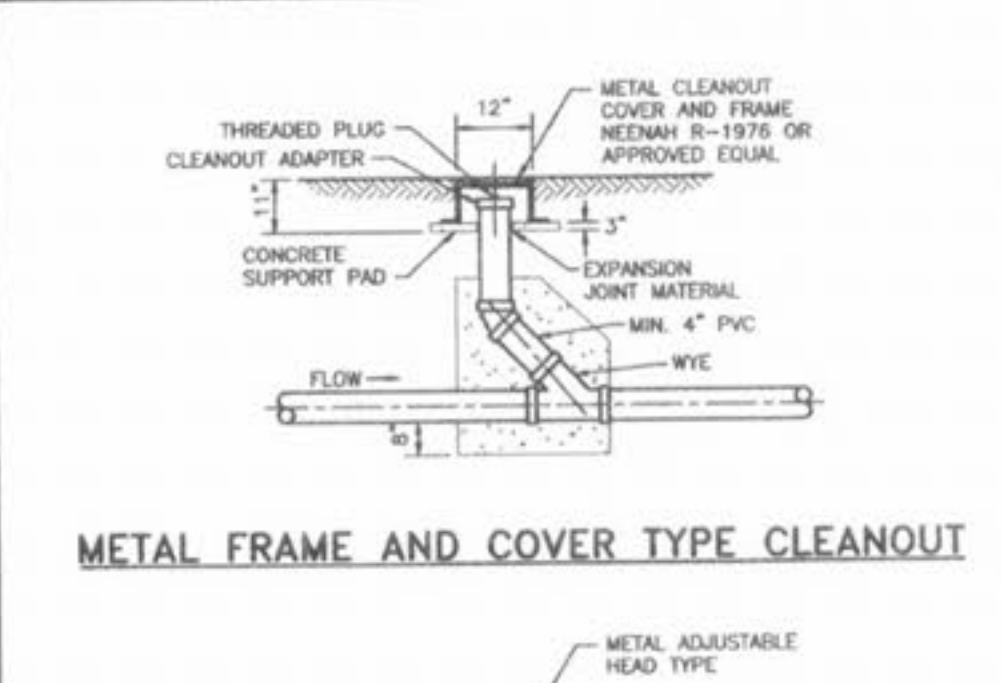
ROADWAY BORING DETAIL
Sheet No: BSM, Date: 1-9-01, Detail No: 23



- NOTES:
- GROUTED RIP-RAP IS REQUIRED AT ALL CREEK CROSSINGS WHERE THE EMBANKMENTS CROSSED ARE STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL (BATH SLOPE); AND ALSO WHERE THERE IS 3 FEET OR LESS COVER OVER THE TOP OF THE SEWER MAIN.
 - PLACE RIP-RAP ON LOWER 3/4 OF SLOPE, GRADE UPPER 1/4 OF SLOPE AT 1 VERTICAL TO 2 HORIZONTAL SLOPE FOR 500 OR 1 VERTICAL TO 2.5 HORIZONTAL SLOPE FOR SEED AND STRAW.
 - RIP-RAP TO BE "WED" 5' GRADATION, MINIMUM 12" THICK, GROUTED WITH 8 SACK MIX SAND-CEMENT SLURRY, BROOM FINISH.
 - INCORPORATE A 3 FEET DEEP TOE WALL ON EMBANKMENT'S UPPER EDGE OF RIP-RAP.
 - TOP SURFACE OF RIP-RAP SHOULD NOT BE HIGHER THAN ADJACENT GROUND SURFACE.
 - IF PIPE HAS LESS THAN 12" COVER, A PAVED CHANNEL MAY BE REQUIRED.
 - DUCTILE IRON PIPE IS REQUIRED WITHIN THE CREEK LIMITS.

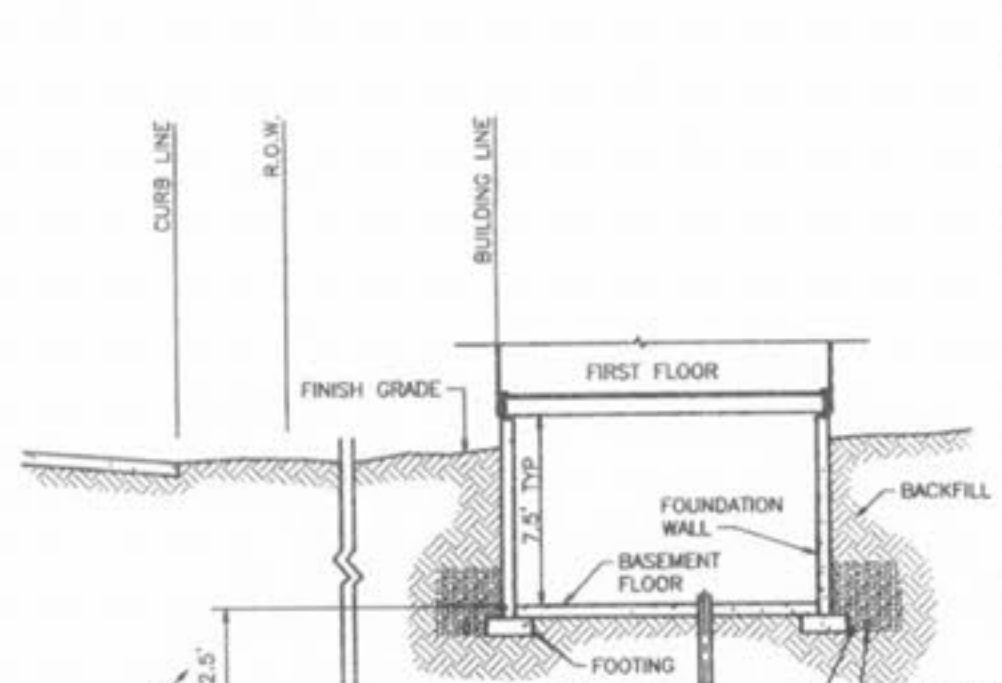
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TYPICAL CREEK CROSSING
Sheet No: BSM, Date: 1-8-01, Detail No: 24



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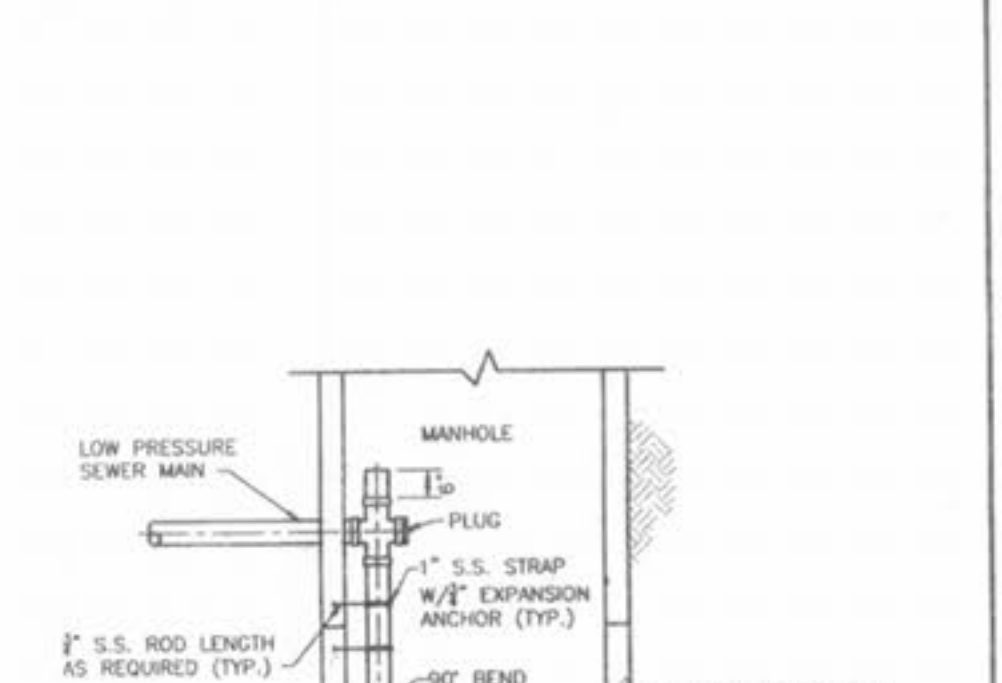
TYPICAL SEWER LATERAL CLEANOUT DETAILS
Sheet No: BSM, Date: 1-8-01, Detail No: 25



- NOTES:
- MINIMUM DIFFERENCE BETWEEN BASEMENT FLOOR ELEVATION AND FLOW LINE OF SANITARY MAIN
 - DIFFERENCE IN DEPTH INCREASES WITH PIPE SIZE

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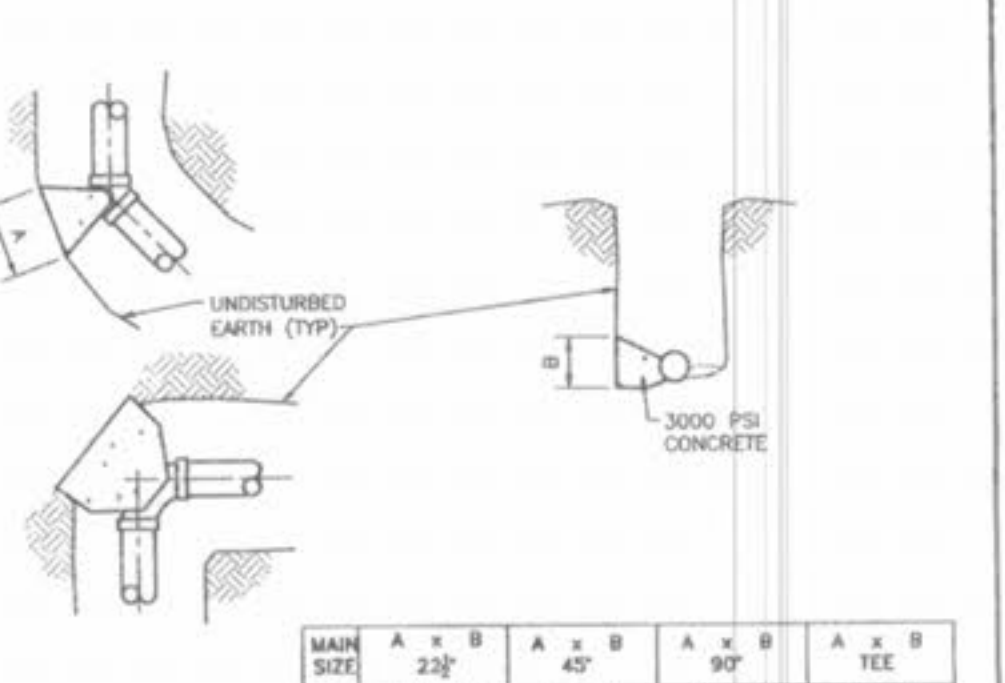
TYPICAL SANITARY SEWER LATERAL PROFILE
Sheet No: BSM, Date: 1-9-01, Detail No: 26



- NOTE: INVERT-BOTTOM SHALL BE WORKED TO PROVIDE POSITIVE DRAINAGE THROUGH MANHOLE

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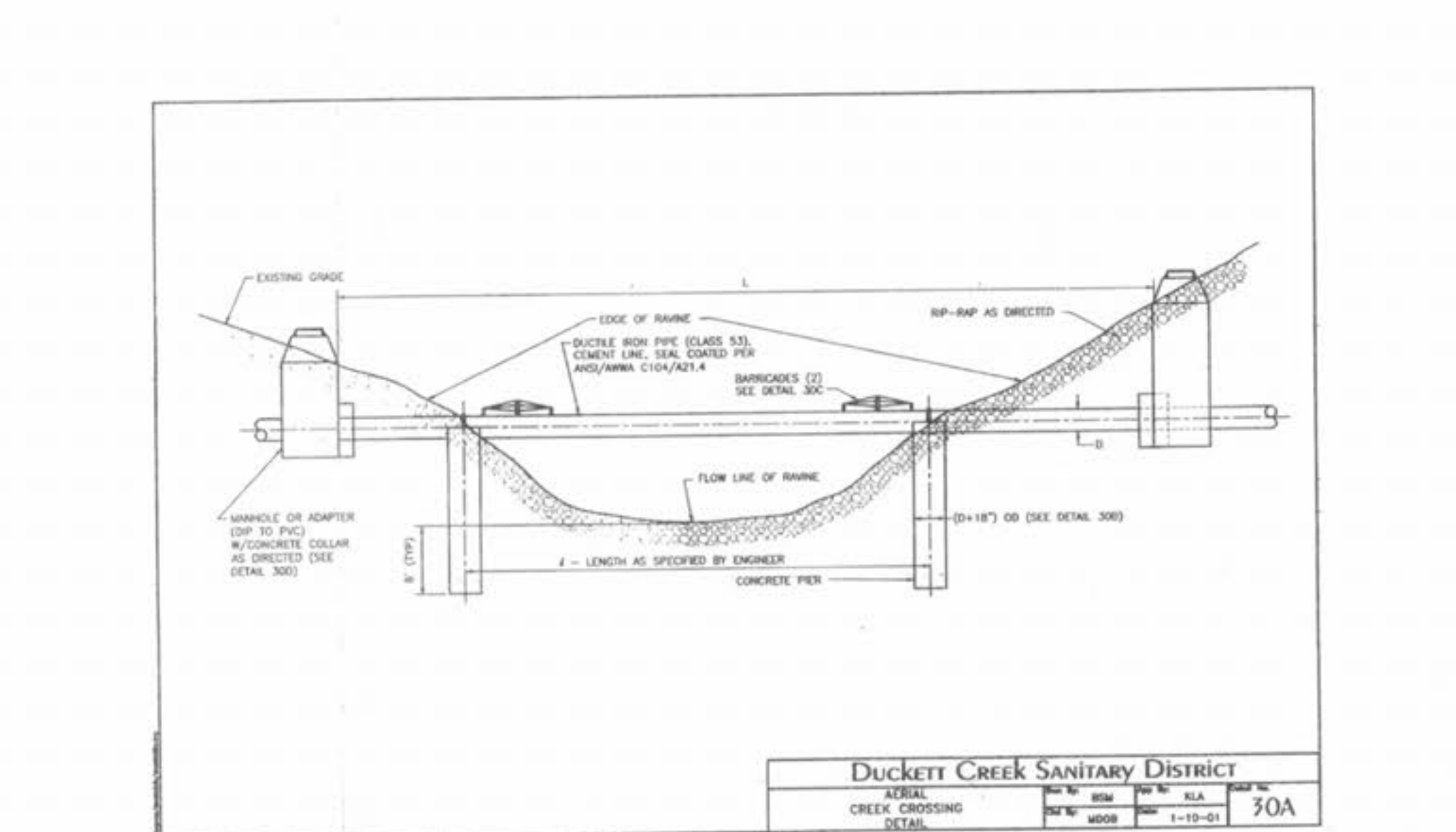
LOW PRESSURE CLEANOUT CONNECTION AT MANHOLE
Sheet No: BSM, Date: 1-9-01, Detail No: 28



MAIN SIZE	A x B	A x B	A x B	A x B	TEE
2"	5" x 1"	5" x 1"	1" x 1"	1" x 1"	1" x 1"
4"	1" x 1"	1" x 1"	1.5" x 1"	1.5" x 1"	1" x 1"
6"	1" x 1"	1.5" x 1"	2" x 1"	1.5" x 1"	1.5" x 1"
8"	1" x 1"	2" x 1"	2" x 1"	2" x 1"	2" x 1"

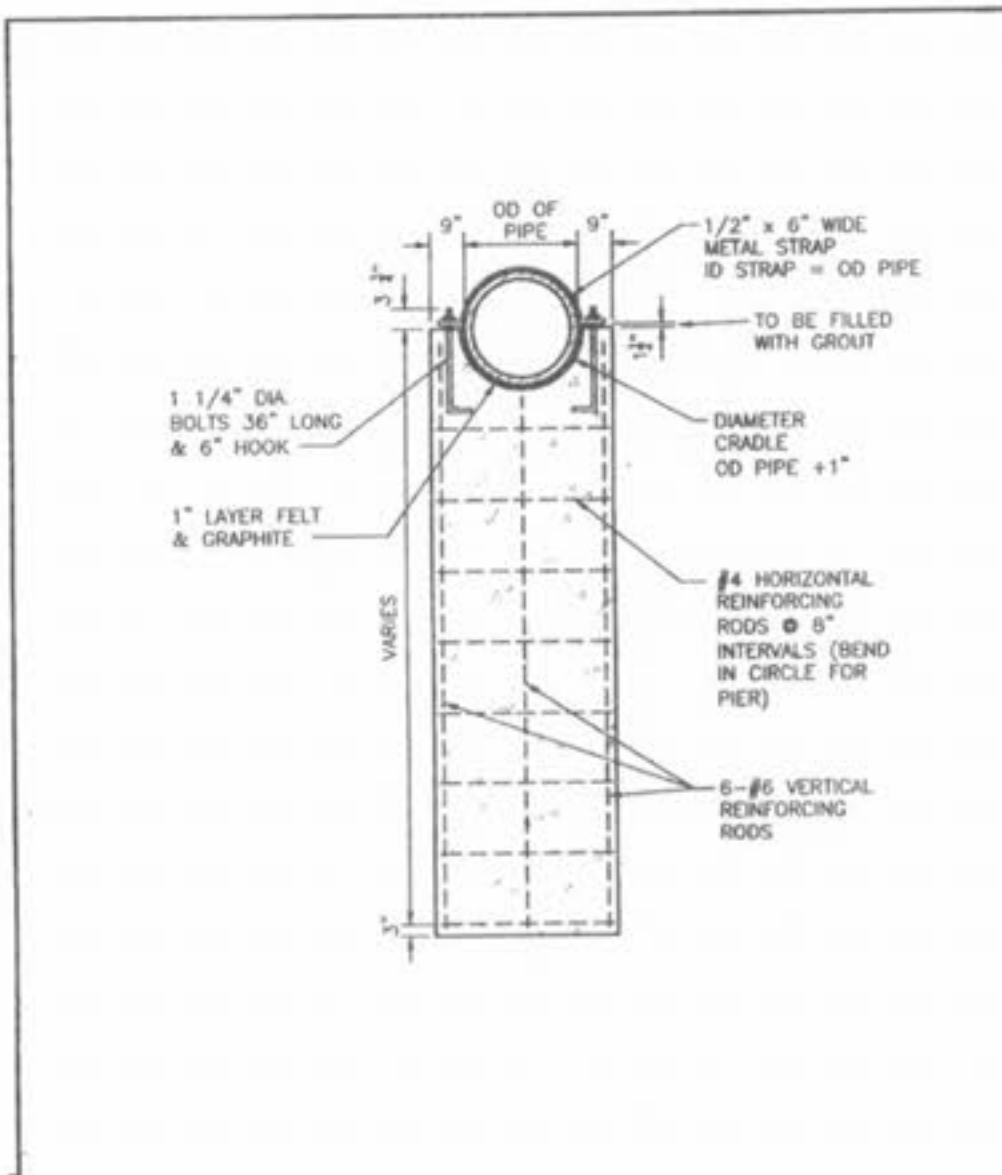
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THRUST BLOCK DETAIL AND SIZE SCHEDULE
Sheet No: BSM, Date: 1-9-01, Detail No: 29



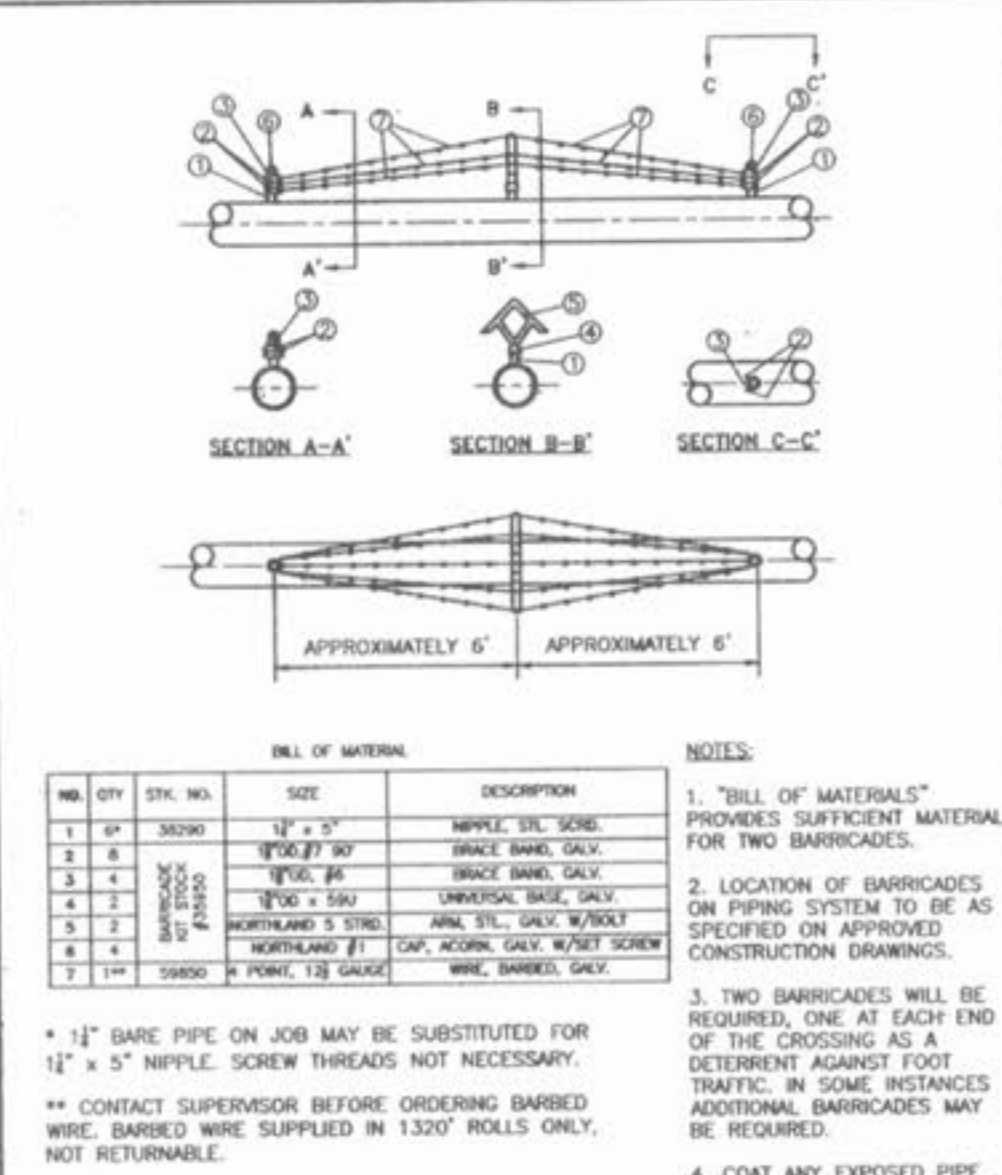
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AERIAL CROSSING PIER DETAIL
Sheet No: BSM, Date: 1-10-01, Detail No: 30A



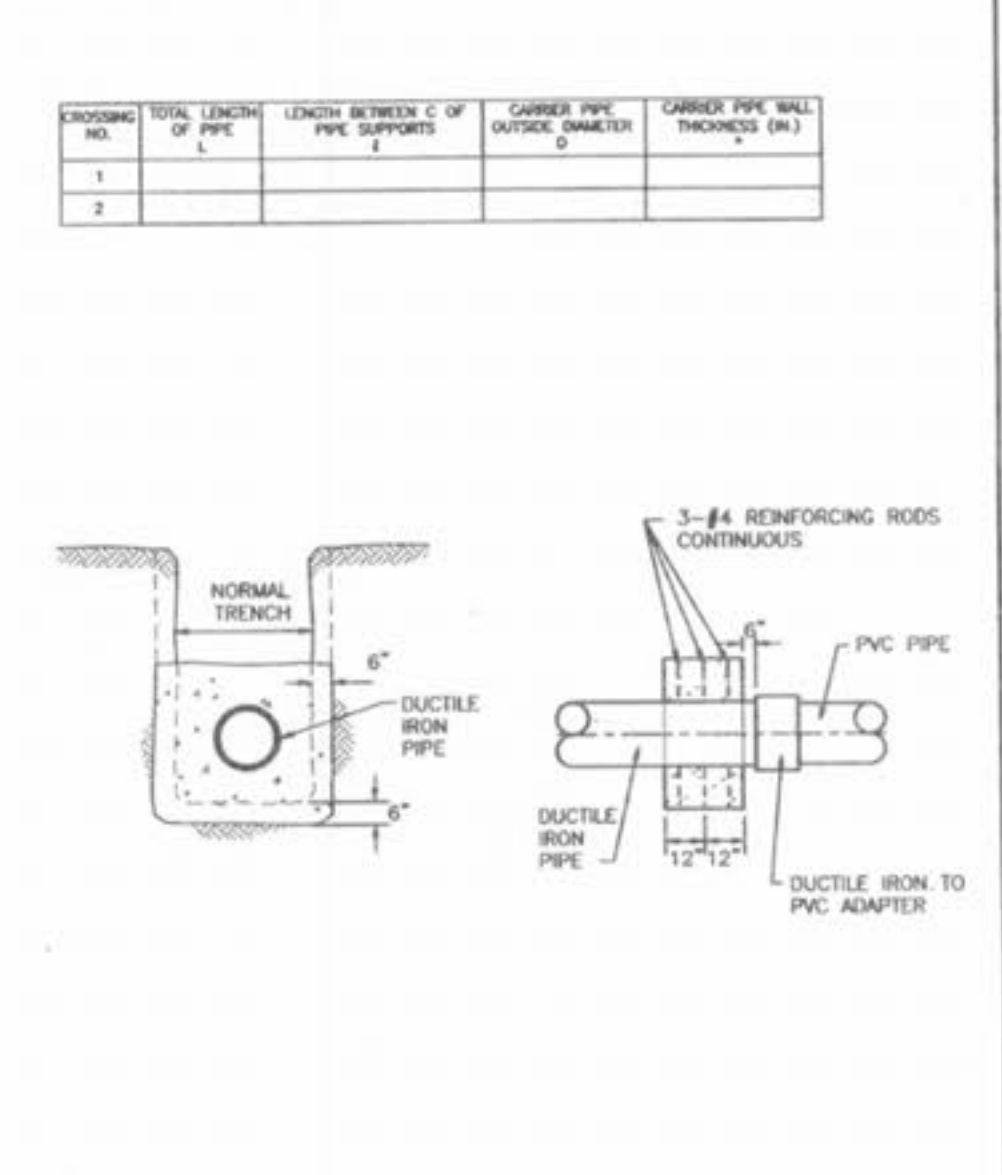
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CONCRETE PIER DETAIL
Sheet No: BSM, Date: 1-9-01, Detail No: 30B



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AERIAL CROSSING BARRIER DETAIL
Sheet No: BSM, Date: 1-9-01, Detail No: 30C



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AERIAL CROSSING CONCRETE COLLAR DETAIL
Sheet No: BSM, Date: 1-9-01, Detail No: 30D