

PENNIAL PARK PHASE I

MAY 1, 2001 96-8791

SR-35 x C900 BELL & BELL ADAPTERS

SIZE	CATALOG NO.	OD	OD	ID	ID	L	CTN	CTN	
		337-040	4.80	4.215	4.86	4.25	10.0	1	4
6x8	337-060	6.80	6.275	6.98	6.32	11.13	1	8	
8x8	337-080	8.05	8.400	8.13	8.45	12.50	1	15	

DUCKETT CREEK SANITARY DISTRICT
SR-35 x C900 BELL & BELL 4" 6" & 8" ADAPTERS
19C

PLASTIC SHOULDER TEE OR WYE FITTING (SOLVENT WELD)

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:

- CLEAN AND DRY BOTH INSIDE THE SHOULDER WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
- APPROXIMATELY APPLY A LIBERAL HEAVY COAT OF ONE-STEP SOLVENT CEMENT TO THE INSIDE SURFACE OF THE SHOULDER WYE AND TO THE EXTERIOR SURFACE TO THE PIPE.
- WITHOUT DELAY, MATCH THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD OF SOLVENT SHOULD APPEAR AFTER THE SHOULDER HAS BEEN STRIPPED DOWN TIGHTLY.
- USING A RAG OR PAPER TOWEL, Wipe Away any EXCESS SOLVENT CEMENT OFF PIPE AND SHOULDER.
- ALLOW 30-60 MINUTES FOR SET-UP TIME BEFORE BACKFILLING. CURE TIME DEPENDS ON SIZE FIT OF MATERIALS BEING INSTALLED AND MANUFACTURER'S INSTRUCTIONS.
- 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 CEMENT TO SAND MIX
 - "200-MESH" CONCRETE
 - DCSD APPROVED BEDDING FOR SANITARY SEWERS

DUCKETT CREEK SANITARY DISTRICT
8" & LARGER CONNECTION TO PLASTIC MAIN
20A

INSERTA TEE
THE USE OF AN INSERTA TEE REQUIRES DISTRICT APPROVAL.

INSTALLATION PROCEDURE:

- CORE THE PROPER SIZE HOLE. TEE SIZE: 4" 6" 8" 10" 12" 15". HOLE SIZE: 4" 6" 8" 10" 12" 15".
- INSERT THE RUBBER SLEEVE (1) IN THE CORED HOLE WITH THE COLD VERTICAL LINE ON THE RUBBER SLEEVE. (2) FACING TO THE SIDE OF THE MAIN LINE. THE UPPER SECTION SHOULD BE ON TOP OF THE MAIN LINE AND THE LOWER SECTION (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 COLD VERTICAL LINE (5) ON THE RUBBER SLEEVE.
- PLACE THE 2x4 BOARD ON TOP OF THE TOP OF THE PVC HUB ADAPTER.
- THE RED HORIZONTAL LINE (6) 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 (6) ON THE PVC HUB ADAPTER (3) MEETS THE TOP OF THE RUBBER SLEEVE (5).
- PLACE THE STAINLESS STEEL BAND (7) AROUND THE TOP OF THE RUBBER SLEEVE AND TIGHTEN DOWN.
- INSTALL PIPE IN NORMAL MANNER.

DUCKETT CREEK SANITARY DISTRICT
INSERTA TEE DETAILS AND SPECIFICATIONS
20B

CLASS "A" CONCRETE ENCASUREMENT

NOTES:

- WHEN A CONNECTION IS ALLOWED LARGER THAN 6" DIAMETER A SHOULDER 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 18")
- 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 "WELDED IN". (EXAMPLE: 18" x 8")
- THIS IS ACCOMPLISHED BY BREAKING AWAY AND REMOVING ONE SECTION OF PIPE THE TOP HALF OF THE BELL ON THE PIPE BEING ADJACENT TO THE LINE GAP WITH THE STUB POINTED IN THE BROKEN DIRECTION. THE BROKEN BELLS ON THE REPLACEMENT AND ADJOINING PIPE WARE IF POSSIBLE FOR THE REPLACEMENT SECTION TO FIT INTO THE SEWER LINE WITHOUT DISTURBING THE ADJOINING PIPE SECTIONS. THE REPLACEMENT SECTION IS THEN INSTALLED TO THE DESIRED POSITION AND THE BROKEN BELLS ARE ENCASED WITH A 4" CLASS "A" CONCRETE ENCASUREMENT.
- 4" O.D. MAIN SEWER SHALL NOT BE DECREASED BY A ROLL-IN CONNECTION.

DUCKETT CREEK SANITARY DISTRICT
"ROLL-IN" (FOR EXISTING CLAY OR CONCRETE PIPE)
21

APPROVED CLOSURES ON 1/8" BEND

1800' MAXIMUM SPACING

DUCKETT CREEK SANITARY DISTRICT
FORCE MAIN CLOSURE (6" DIA. & SMALLER)
22

LINE OF ACTUAL EXCAVATION

DUCKETT CREEK SANITARY DISTRICT
SANITARY SEWER LATERAL RISER DETAIL
27

BORING DETAIL

NOTES:

- INSIDE DIAMETER OF CASING PIPE TO BE MINIMUM OF 4" GREATER THAN COUPLING DIAMETER OF CARRIER PIPE.
- ENCASUREMENTS TO BE INSTALLED UNDER THE ROAD BY MEANS OF JACKING IT THROUGH OR BY DRY BORING A HOLE THAT WILL RECEIVE THE CASING WITH A SLIGHT FIT.
- THE OUTSIDE DIAMETER OF THE CASING SHALL NOT BE LESS THAN, NOR MORE THAN ONE INCH GREATER THAN THE BORED HOLE.
- 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
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TYPICAL CREEK CROSSING

NOTES:

- GROUTED RIP-RAP IS REQUIRED AT ALL CREEK CROSSINGS WHERE THE EMBANKMENTS CROSSED ARE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL. 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. 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 "W30 S" GRADATION. MINIMUM 12" THICK. GROUTED WITH 8 SACK MIX. SAND-CEMENT SLURRY. BROKEN 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.

DUCKETT CREEK SANITARY DISTRICT
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METAL FRAME AND COVER TYPE CLEANOUT

ADJUSTABLE HEAD TYPE CLEANOUT

DUCKETT CREEK SANITARY DISTRICT
TYPICAL SEWER LATERAL CLEANOUT DETAILS
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TYPICAL SANITARY SEWER LATERAL PROFILE

NOTE: DIFFERENCE IN DEPTH INCREASES WITH PIPE SIZE.

DUCKETT CREEK SANITARY DISTRICT
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LOW PRESSURE SEWER MAIN CONNECTION AT MANHOLE

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

DUCKETT CREEK SANITARY DISTRICT
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THRUST BLOCK DETAIL AND SIZE SCHEDULE

MAIN SIZE	A x B	A x B	A x B	A x B	A x B
24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"
30"	30" x 30"	30" x 30"	30" x 30"	30" x 30"	30" x 30"
36"	36" x 36"	36" x 36"	36" x 36"	36" x 36"	36" x 36"
42"	42" x 42"	42" x 42"	42" x 42"	42" x 42"	42" x 42"
48"	48" x 48"	48" x 48"	48" x 48"	48" x 48"	48" x 48"

DUCKETT CREEK SANITARY DISTRICT
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AT-RAIL CREEK CROSSING DETAIL

DUCKETT CREEK SANITARY DISTRICT
30A

CONCRETE PIER DETAIL

DUCKETT CREEK SANITARY DISTRICT
30B

AERIAL CROSSING BARRIER DETAIL

DUCKETT CREEK SANITARY DISTRICT
30C

AERIAL CROSSING CONCRETE COLLAR DETAIL

DUCKETT CREEK SANITARY DISTRICT
30D

