

SDB-35 x C900 BELL & BELL ADAPTERS

SIZE	CATALOG NO.	OD	TD	ID	CTN	CTN
					QTY	WT
4x4	337-040	4.80	4.215	4.88	4.25	10.0
6x6	337-060	6.90	6.275	6.98	6.32	11.15
8x8	337-080	9.05	8.400	9.13	8.45	12.50

Duckett Creek Sanitary District

SDB-35 x C900 BELL AND BELL 4" 6" & 8" ADAPTERS

BSM	KLA	MOOB	1-3-01	19C
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PLASTIC SADDLE 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: 12" x 6")

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 SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
- APPLY A LUBRICANT HEAVY COAT OF ONE-STEP SOLVENT CEMENT TO THE INSIDE SURFACE OF THE SADDLE WYE AND TO THE EXTERNAL WELDING SURFACE TO THE PIPE.
- WITHOUT DELAY, MATCH THE SURFACES AND STRAP DOWN TIGHTLY. A HEAD OF SOLVENT SHOULD APPEAR AFTER THE SADDLE HAS BEEN STRAPPED DOWN TIGHTLY.
- USING A RAG OR PAPER TOWEL, Wipe BEAD AND ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
- ALLOW 30-60 MINUTES FOR SET-UP TIME BEFORE BACKFILLING. CURE TIME DEPENDS ON SIZE OF MATERIALS BEING INSTALLED AND VARIOUS COLD DAMP CONDITIONS.
- ORDERED OLD SOLVENT IF IT BECAME 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
 - TYPE "M" CONCRETE
 - CLASS "A" APPROVED BEDDING FOR SANITARY SEWERS

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8" & LARGER CONNECTION TO PLASTIC MAIN

BSM	KLA	MOOB	1-4-01	20A
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ROBERTA TEE
THE USE OF AN ROBERTA TEE REQUIRES EXPLICIT APPROVAL.

INSTALLATION PROCEDURE:

- CORE THE PROPER SIZE HOLE. HUB SIZE: 4" 6" 8" 10" 12" 15" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72" 78" 84" 90" 96" 102" 108" 114" 120" 126" 132" 138" 144" 150"
- INSERT THE ROBERTA TEE (1) IN THE COLED HOLE WITH THE GOLD VERTICAL LINE ON THE RUBBER SLEEVE (2) FACING TO THE LEFT OF THE MAIN LINE. THE UPPER SEGMENT SHOULD BE ON TOP OF THE WALL ON THE AND THE LOWER SEGMENT (PVC, PROFILE WALL AND POLYETHYLENE PIPE ONLY) SHOULD BE ON THE INSIDE OF THE PIPE.
- APPLY THE ROBERTA TEE SOLUTION SUPPLIED TO THE INSIDE OF THE RUBBER SLEEVE AND TO THE OUTSIDE OF THE PVC HUB ADAPTER. CAUTION - DO NOT USE ALCOHOL-BASED LUBRICANTS.
- 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 (5) ON THE RUBBER SLEEVE.
- PLACE THE 2x4 BEAMS ON TOP OF THE PVC HUB ADAPTER.
- THE RED HORIZONTAL LINE (6) AT THE TOP OF THE HUB ADAPTER IS A DEPTH MARK. THIS BELLS THE INSTALLED HUB END TO MAKE THE ADAPTER INTO THE RUBBER SLEEVE. DRAG THE PVC HUB ADAPTER INTO THE RUBBER SLEEVE TO BREAK THE HORIZONTAL RED LINE (6) ON THE RUBBER SLEEVE (7).
- PLACE THE STAINLESS STEEL BAND (8) AROUND THE TOP OF THE RUBBER SLEEVE AND TIGHTEN DOWN.
- INSTALL PIPE IN NORMAL MANNER.

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INSERTA TEE DETAILS AND SPECIFICATIONS

BSM	KLA	MOOB	1-4-01	20B
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ROLL-IN (FOR EXISTING CLAY OR CONCRETE PIPE)

NOTES:

- WHEN A CONNECTION IS ALLOWED LARGER THAN 4" 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 12")
- 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 "ROLLED 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 PIPE LYING ADJACENT TO THE GAP IS CAREFULLY BROKEN OFF THE TOP HALF OF THE BELL ON THE MAIN REPLACEMENT SECTION WITH A "TEST" WYE FITTING IS ALSO BROKEN OFF THE REPLACEMENT PIPE IS THEN PLACED IN THE LINE GAP WITH THE CLASS PROVIDED IN THE WRONG DIRECTION. THE BROKEN BELLS ON THE REPLACEMENT AND ADJACENT PIPE MAKE IT POSSIBLE FOR THE REPLACEMENT SECTION TO FIT INTO THE SEWER LINE WITHOUT DISTURBING THE ADJACENT PIPE SECTIONS. THE REPLACEMENT SECTION IS THEN ROTATED TO THE DESIRED POSITION AND THE BROKEN BELLS ARE ENCASED WITH A 4" 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)

BSM	KLA	MOOB	1-5-01	21
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FORCE MAIN BORING DETAIL (6" DIA. 8" SMALLER)

1800' MAXIMUM SPACING

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FORCE MAIN BORING DETAIL (6" DIA. 8" SMALLER)

BSM	KLA	MOOB	1-5-01	22
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SUPPORT OF CARRIER PIPE OR FORCE MAIN IN CASING

SECTION A-A'

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ROADWAY BORING DETAIL

BSM	KLA	MOOB	1-5-01	23
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TYPICAL CREEK CROSSING

NOTES:

- GRADED RIP-RAP IS REQUIRED AT ALL CREEK CROSSINGS WHERE THE EMBANKMENTS CROSSED ARE STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL. BARD 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 SOO OR 1 VERTICAL TO 2.5 HORIZONTAL. SLOPE FOR SEED AND STRAW.
- RIP-RAP TO BE WASH 3" GRADED. MINIMUM 12" THICK. GRADED WITH 8 SACK MIX. SAND-CEMENT. SLOPING. 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

BSM	KLA	MOOB	1-8-01	24
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METAL FRAME AND COVER TYPE CLEANOUT

ADJUSTABLE HEAD TYPE CLEANOUT

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TYPICAL SEWER LATERAL CLEANOUT DETAILS

BSM	KLA	MOOB	1-8-01	25
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TYPICAL SANITARY LATERAL

NOTE: DIFFERENCE IN DEPTH INCREASES WITH PIPE SIZE.

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TYPICAL SANITARY LATERAL

BSM	KLA	MOOB	1-9-01	26
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SANITARY SEWER LATERAL RISER DETAIL

PROVIDE (DCS) TYPICAL GRANULAR BEDDING TO SUPPORT LATERAL WITHIN LINE OF ACTUAL EXCAVATION.

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SANITARY SEWER LATERAL RISER DETAIL

BSM	KLA	MOOB	1-9-01	27
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LOW PRESSURE SEWER MAIN CONNECTION AT MANHOLE

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

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LOW PRESSURE SEWER MAIN CONNECTION AT MANHOLE

BSM	KLA	MOOB	1-9-01	28
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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
	22"	40"	50"	60"	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'	2' 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

BSM	KLA	MOOB	1-9-01	29
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IMPROVEMENT PLANS
PEACEFUL VALLEY
SANITARY DETAILS 2

ST. CHARLES ENGINEERING & SURVEYING, INC.
801 S. FIFTH STREET, SUITE 202
ST. CHARLES, MO 63301
TEL: (636) 947-0607 FAX: (636) 947-2448



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