

USER: kwright; TAB: SANITARY 10.3  
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 DRAWING: S:\VGBS\Job2005\05-340\UDES-340\UDES-340\IMPROVEMENT PLANS\C\_PLAN\_C10.00\_DETAILS.dwg

**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 Detail No. 19A  
 Ckd By: MDOB Date: 1-3-01

**SDR-35 x C900  
BELL x SPIGOT ADAPTERS**

SIZE	CATALOG NO.	A	L	STYLE
4"	335-040	3.2	11.0	FABRICATED
6"	335-060	2.9	.5	HARGO
8"	335-080	4.0	11.5	FABRICATED

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

**SDR-35 x C900  
BELL x BELL ADAPTERS**

SIZE	CATALOG NO.	OD C900 SEWER	OD	ID	ID SOWER	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 Detail No. 19C  
 Ckd By: MDOB Date: 1-3-01

**PLASTIC SADDLE TEE OR WYE FITTING (SOLVENT WELD)**

RECEIVED  
 JUN 22 2006  
 ST. CHARLES COUNTY  
 COMMUNITY DEVELOPMENT DEPT.  
 DEVELOPMENT REVIEW DIVISION

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.

- CLEAN AND DRY BOTH INSIDE THE SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
- 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.
- WITHOUT DELAY, MATE THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD 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 FIT OF MATERIALS BEING INSTALLED AND VARIOUS COLD CLAMP CONDITIONS.
- DISCARD OLD SOLVENT IF IT BECOME 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
  - "PRE-MIX" CONCRETE
  - DCSD APPROVED BEDDING FOR SANITARY SEWERS.

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

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

RED HORIZONTAL LINE  
 STAINLESS STEEL BAND  
 MATCH RED HORIZONTAL LINE  
 GOLD VERTICAL LINE  
 HUB SDR 35 3034  
 RED VERTICAL LINE  
 IN LINE  
 RUBBER SLEEVE ASTM C-443  
 PVC  
 PLASTIC PROFILE WALL  
 CONCRETE

**INSTALLATION PROCEDURE:**

- CORE THE PROPER SIZE HOLE. TEE SIZE: 4" 6" 8" 10" 12" 15"  
 BIT SIZE: 4 1/2" 6 1/2" 8 1/2" 10 1/2" 12 1/2" 15 1/2"
- 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.
- 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 ONTO THE 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 (1).
- 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  
 Dwn By: BSM App By: KLA Detail No. 20B  
 Ckd By: MDOB Date: 1-4-01

**CLASS "A" CONCRETE ENCASEMENT**

**NOTES:**

- WHEN A CONNECTION IS ALLOWED LARGER THAN 6" DIA EITHER 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) 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 "TEE" WYE) FITTING IS ALSO BROKEN OFF. THE 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.
- 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 Detail No. 21  
 Ckd By: MDOB Date: 1-5-01

**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

**1800' MAXIMUM SPACING**

**Duckett Creek Sanitary District**  
 FORCE MAIN CLEANOUT (6" DIA. & SMALLER)  
 Dwn By: BSM App By: KLA Detail No. 22  
 Ckd By: MDOB Date: 1-5-01

**BORING DETAIL**

ROADWAY  
 CARRIER PIPE  
 SEE PLANS  
 STEEL CASING PIPE  
 GROUT  
 SEE PLANS

**NOTES:**

- INSIDE DIAMETER OF CASING PIPE TO BE MINIMUM OF 4" GREATER THAN COUPLING DIAMETER OF CARRIER PIPE.
- ENCASEMENTS 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 SNUG 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**

SPACER BLOCKS  
 CARRIER PIPE  
 CABLE OR BAND  
 STEEL CASING PIPE  
 GROUT

**SECTION A-A'**

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

NOTE: THE DETAILS SHOWN HEREIN ARE FOR THE PURPOSE OF PRIVATE CONSTRUCTION ONLY. PUBLIC CONSTRUCTION WILL REQUIRE STRICT ADHERENCE TO THE DETAILS PUBLISHED BY DUCKETT CREEK AND ST. CHARLES COUNTY.

**REVISIONS**

DATE	DESCRIPTION
7/28/06	OWNER/COUNTY COMMENTS
8/19/06	ST. CHARLES CO. REVIEW COMMENTS
8/27/06	DUCKETT CREEK SAN DIST. COMMENTS
9/27/06	DCSD REVIEW COMMENTS
9/27/06	COUNTY COMMENTS

DEVELOPER/OWNER:  
 THE JONES COMPANY HOMES, L.L.C.  
 16840 CHESTERFIELD GROVE, SUITE 160  
 CHESTERFIELD, MO 63005  
 PHONE: (636) 537-7192

DESIGNED BY: JKW  
 DRAWN BY: BJ  
 CHECKED BY: JFH  
 DATE: 2/2/06  
 Job Number: 05-340  
 Sheet Number: C10.3

PRESTON WOODS - PHASE I  
 IMPROVEMENT PLANS  
 RHODES LAKE  
 ST. CHARLES, MO. 63366  
 SANITARY SEWER DETAILS

planning • engineering • surveying • landscape architecture  
**Cole and Associates**  
 INCORPORATED  
 10777 sunset office dr. suite 10  
 saint louis, missouri 63127  
 p: 314 964 9667 f: 314 964 0567