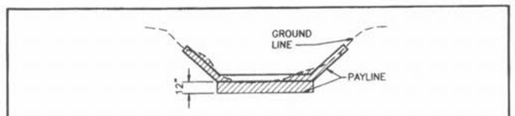
ROUND PIPE				HORIZONTAL ELLIPTICAL PIPE			
INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASEMENT	INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY-VOLUMES CU. FT. PER FT. CONCRETE ENCASEMENT
4	30	2.50	3.28				
6	30	2.50	3.59				
8	30	2.50	3.87				
10	30	2.50	4.09				
12	30	2.50	4.25				
15	36	3.00	5.55				
18	36	3.00	5.77	14 x 23	41	3.42	5.94
21	39	3.25	6.61				
24	42	3.50	7.39	19 x30	49	4.08	7.68
27	45	3.75	8.18	22 x 34	53	4.42	8.61
30	49	4.08	9.30	24 x 38	58	4.83	9.70
33	53	4.42	10.53	27 x 42	62	5.17	10.71
36	56	4.67	11.43	29 x 45	66	5.50	11.72
39	DISCONTINUED			32 x 49	71	5.92	13.14
42	63	5.25	13.38	34 x 53	75	6.25	14.05
48	70	5.83	15.67	38 x 60	83	6.92	16.18
54	77	6.42	18.15	43 x 68	92	7.67	18.81
60	84	7.00	20.73	48 x 76	101	8.42	21.59
66	91	7.58	23.45	53 x 83	109	9.08	24.35
72	98	8.17	26.37	58 x 91	118	9.83	27.45
78	105	8.75	29.39	63 x 98	126	10.50	30.50
84	112	9.33	32.57	68 x 106	135	11.25	33.91
90	119	9.92	35.90	72 x 113	143	11.92	36.99
96	126	10.50	39.37	77 x 121	152	12.67	40.69
102	133	11.08	42.99	82 x 128	160	13.33	44.45
108	140	11.67	46.75	87 x 136	168	14.00	47.79
114	147	12.25	50.66	92 x 143	176	14.67	51.70
120	154	12.83	54.72	97 x 151	185	15.42	56.01
126	161	13.42	58.92				
132	168	14.00	63.27	106 x 166	202	16.83	64.48
144	182	15.17	72.40	116 x 180	218	18.17	73.59

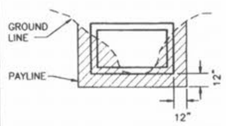
Duckett Creek Sanitary District

PAYLINE WIDTHS OF TRENCH AND PAY-QUANTITIES OF CONCRETE

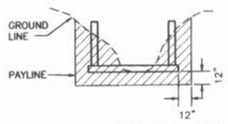
Dwn By: BSM | App By: KLA | Detail No. 1
Chd By: MDOB | Date: 12-21-99



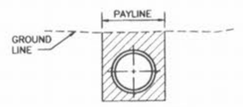
LIMITS FOR TRAPEZOIDAL CHANNEL



LIMITS FOR BOX CULVERT



LIMITS FOR VERTICAL WALL



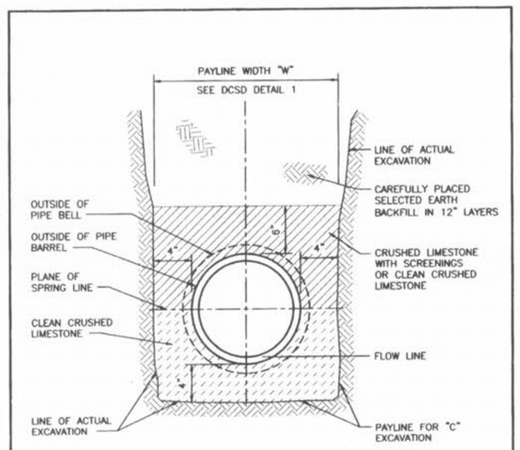
LIMITS FOR PIPE

NOTE:
PAYLINE FOR ANY OTHER TYPE CHANNEL EXCAVATION SHALL BE THE EXACT SHAPE OF THE SUBGRADE.

Duckett Creek Sanitary District

PAYLINE LIMITS FOR EXCAVATION

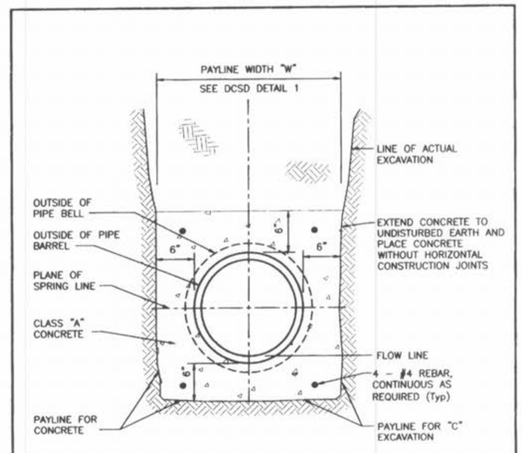
Dwn By: BSM | App By: KLA | Detail No. 2
Chd By: MDOB | Date: 12-21-99



Duckett Creek Sanitary District

PIPE BEDDING CLASS "C" (FOR ALL PIPE EXCEPT REINFORCED CONCRETE PIPE)

Dwn By: BSM | App By: KLA | Detail No. 3
Chd By: MDOB | Date: 12-21-99

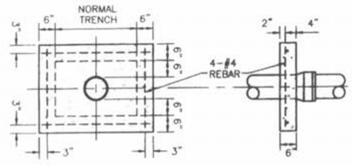


NOTE:
SUPPORT PIPE TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE.

Duckett Creek Sanitary District

TYPICAL CONCRETE ENCASEMENT

Dwn By: BSM | App By: KLA | Detail No. 4
Chd By: MDOB | Date: 12-21-99



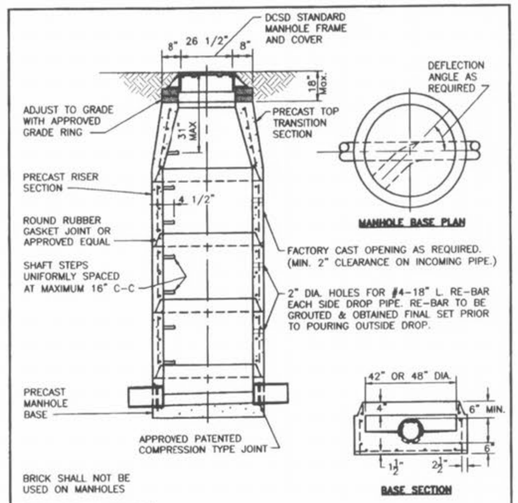
FRONT SECTION

SECTION THROUGH COLLAR

Duckett Creek Sanitary District

CONCRETE ANTI-SLIP COLLAR FOR PVC PIPE ON PIPE SLOPES FROM 15% TO 50%

Dwn By: BSM | App By: KLA | Detail No. 5
Chd By: MDOB | Date: 12-21-99



BRICK SHALL NOT BE USED ON MANHOLES

SECTION OF MANHOLE		DIMENSION
TOP TRANSITION	UPPER LOWER	26 1/2" DIA. 42" DIA.
BOTTOM SECTION	8" DIA. PIPE	42" DIA.
BOTTOM SECTION	10" THRU 36" DIA. PIPE	48" DIA.
BOTTOM SECTION	42" DIA.	60" DIA.

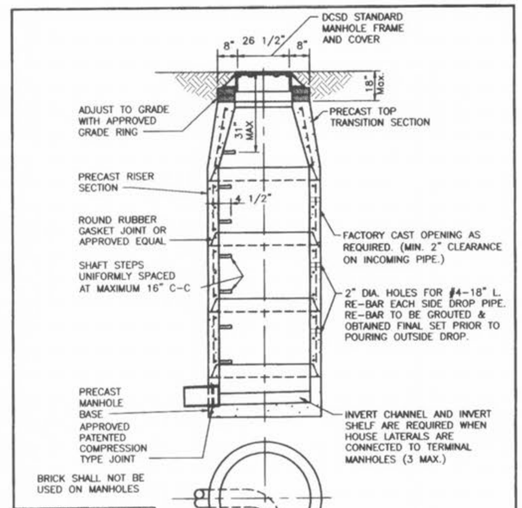
NOTE:
ALL INVERTS SHALL HAVE POSITIVE DRAINAGE THROUGH MANHOLE.

SEE A.S.T.M. C-478 FOR MINIMUM STEEL REQUIREMENTS.

Duckett Creek Sanitary District

PRE-CAST CONCRETE MANHOLE FOR SEWERS 8" THROUGH 18"

Dwn By: BSM | App By: KLA | Detail No. 7
Chd By: MDOB | Date: 12-30-99



BRICK SHALL NOT BE USED ON MANHOLES

SECTION OF MANHOLE		DIMENSION
TOP TRANSITION	UPPER LOWER	26 1/2" DIA. 42" DIA.
BOTTOM SECTION	8" DIA. PIPE	42" DIA.
BOTTOM SECTION	10" THRU 36" DIA. PIPE	48" DIA.
BOTTOM SECTION	42" DIA.	60" DIA.

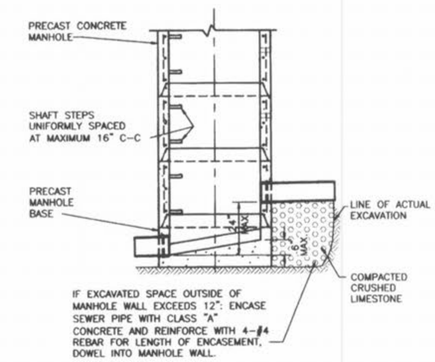
NOTE:
ALL INVERTS SHALL HAVE POSITIVE DRAINAGE THROUGH MANHOLE.

SEE A.S.T.M. C-478 FOR MINIMUM STEEL REQUIREMENTS.

Duckett Creek Sanitary District

TERMINAL MANHOLE FOR SEWERS 8" THROUGH 18"

Dwn By: BSM | App By: KLA | Detail No. 8
Chd By: MDOB | Date: 01-03-00



IF EXCAVATED SPACE OUTSIDE OF MANHOLE WALL EXCEEDS 12", ENCASE SEWER PIPE WITH CLASS "A" CONCRETE AND REINFORCE WITH 4-#4 REBAR FOR LENGTH OF ENCASEMENT, DOWEL INTO MANHOLE WALL.

SECTION OF MANHOLE		DIMENSION
TOP TRANSITION	UPPER LOWER	26 1/2" DIA. 42" DIA.
BOTTOM SECTION	8" DIA. PIPE	42" DIA.
BOTTOM SECTION	10" THRU 36" DIA. PIPE	48" DIA.
BOTTOM SECTION	42" DIA.	60" DIA.

NOTE:
ALL INVERTS SHALL HAVE POSITIVE DRAINAGE THROUGH MANHOLE.

SEE A.S.T.M. C-478 FOR MINIMUM STEEL REQUIREMENTS.

Duckett Creek Sanitary District

INSIDE FOULWATER DROP MANHOLE (SWEEP INVERT)

Dwn By: BSM | App By: KLA | Detail No. 9
Chd By: MDOB | Date: 01-04-00

PICKETT RAY & SILVER
CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS
333 Mid Rivers Mall Drive
St. Peters, MO 63376
Phone (636) 397-1211
Fax (636) 397-1104

WELLINGTON PARK
DETAILS

THE JONES COMPANY
Building Homes Since 1927
a CENTEX Company
16640 Chesterfield Grove Blvd.
Chesterfield, MO. 63005
(314) 235-7587

REVISIONS NO.	DESCRIPTION	DATE	BY

DRAWN E.J.S. | DATE 03-04-03
CHECKED | DATE
PROJECT # 02077.JCH.00R
TASK # 6 | FIELD 1997B BOOK 821

SANITARY SEWER PROFILES

SHEET 18 OF 23

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