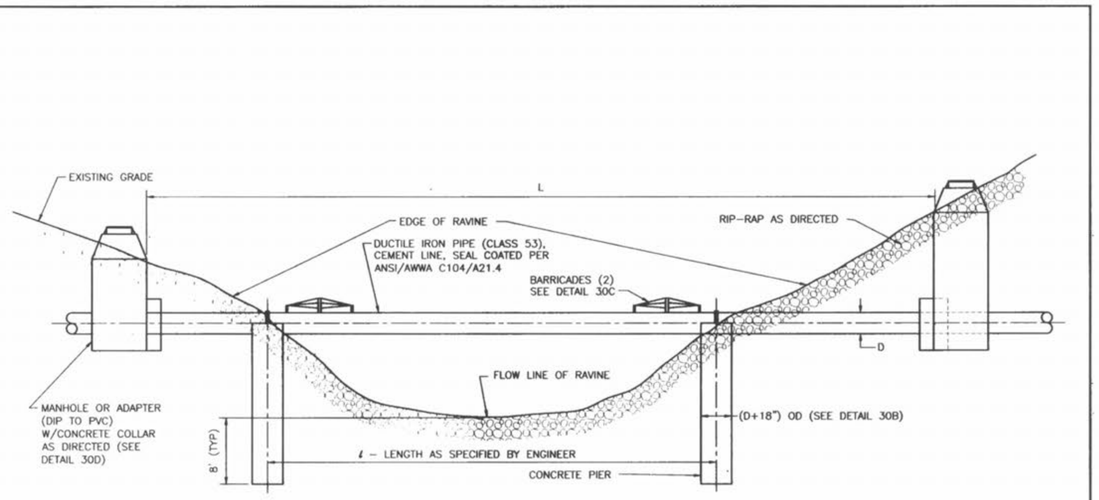
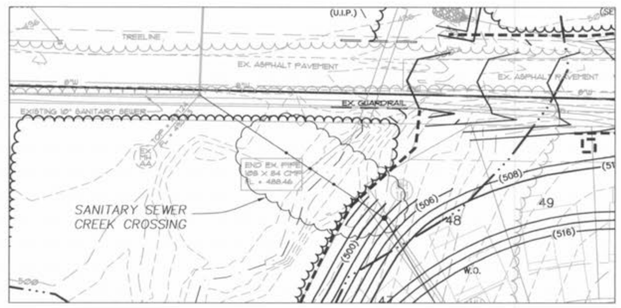
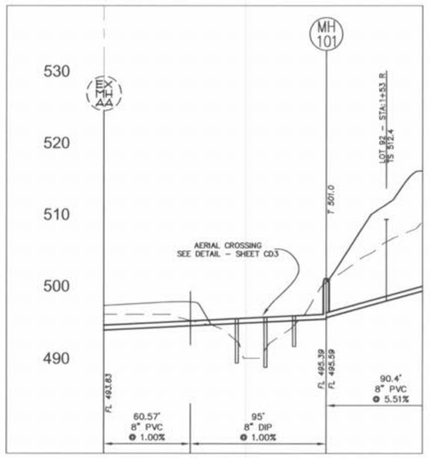
CONSTRUCTION DETAILS

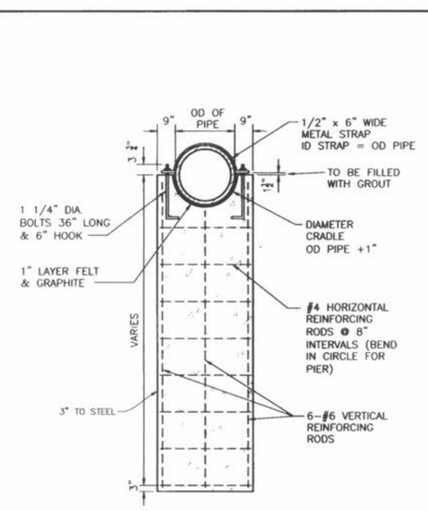
CD3



Duckett Creek Sanitary District				
AERIAL CREEK CROSSING DETAIL	Drwn By: BSM	App By: KLA	Detail No.	30A
	Chkd By: MDOB	Date: 1-10-01		

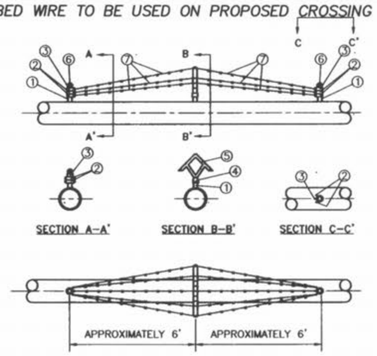






Duckett Creek Sanitary District				
CONCRETE PIER DETAIL	Drwn By: BSM	App By: KLA	Detail No.	30B
	Chkd By: MDOB	Date: 1-9-01		

NO BARBED WIRE TO BE USED ON PROPOSED CROSSING



BILL OF MATERIAL

NO.	QTY	STK. NO.	SIZE	DESCRIPTION
1	6*	38290	1½" x 5"	NIPPLE, STL. SCRD.
2	8	BARRICADE STOCK #73930	1½"OD,#7 90°	BRACE BAND, GALV.
3	4		1½"OD, #6	BRACE BAND, GALV.
4	2		1½"OD x 59U	UNIVERSAL BASE, GALV.
5	2		NORTHLAND 5 STRD.	ARM, STL., GALV. W/BOLT
6	4		NORTHLAND #1	CAP, ACORN, GALV. W/SET SCREW
7	1**	59850	4 POINT, 12½ GAUGE	WIRE, BARBED, GALV.

* 1½" BARE PIPE ON JOB MAY BE SUBSTITUTED FOR 1½" x 5" NIPPLE. SCREW THREADS NOT NECESSARY.

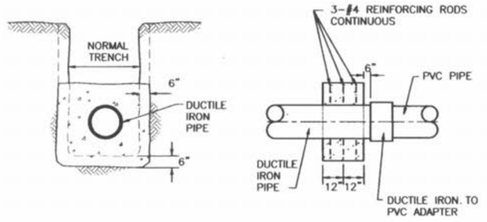
~~** CONTACT SUPERVISOR BEFORE ORDERING BARBED WIRE. BARBED WIRE SUPPLIED IN 1320' ROLLS ONLY, NOT RETURNABLE.~~

NOTES:

1. "BILL OF MATERIALS" PROVIDES SUFFICIENT MATERIAL FOR TWO BARRICADES.
2. LOCATION OF BARRICADES ON PIPING SYSTEM TO BE AS SPECIFIED ON APPROVED CONSTRUCTION DRAWINGS.
3. TWO BARRICADES WILL BE REQUIRED, ONE AT EACH END OF THE CROSSING AS A DETERRENT AGAINST FOOT TRAFFIC. IN SOME INSTANCES ADDITIONAL BARRICADES MAY BE REQUIRED.
4. COAT ANY EXPOSED PIPE WITH MASTIC, STOCK #51857.

Duckett Creek Sanitary District				
AERIAL CROSSING BARRIER DETAIL	Drwn By: BSM	App By: KLA	Detail No.	30C
	Chkd By: MDOB	Date: 1-9-01		

CROSSING NO.	TOTAL LENGTH OF PIPE L	LENGTH BETWEEN C OF PIPE SUPPORTS ℓ	CARRIER PIPE OUTSIDE DIAMETER D	CARRIER PIPE WALL THICKNESS (IN.) *
1				
2				



Duckett Creek Sanitary District				
AERIAL CROSSING CONCRETE COLLAR DETAIL	Drwn By: BSM	App By: KLA	Detail No.	30D
	Chkd By: MDOB	Date: 1-9-01		

CROSSING NO.	L TOTAL LENGTH OF PIPE (FT.)	I LENGTH BETWEEN PIPE SUPPORTS (FT.)	D CARRIER PIPE O.D. (IN.)	CARRIER PIPE WALL THICKNESS
1	95	20	9.05	0.36

GENERAL NOTES:

1) IF ROCK IS ENCOUNTERED SET CONCRETE PIER 24" INTO ROCK.
2) ALL SPLICES IN REINFORCING STEEL SHALL BE 30 BAR DIAMETERS.
3) MINIMUM COVER OVER PRIMARY REINFORCING STEEL TO BE 2".
4) ULTIMATE COMPRESSIVE STRESS IN CONCRETE (28 DAYS) = 3000 P.S.I. (5% AIR ENTRAINED)
5) ULTIMATE TENSILE STRESS IN REINFORCING STEEL = 18,000 P.S.I.