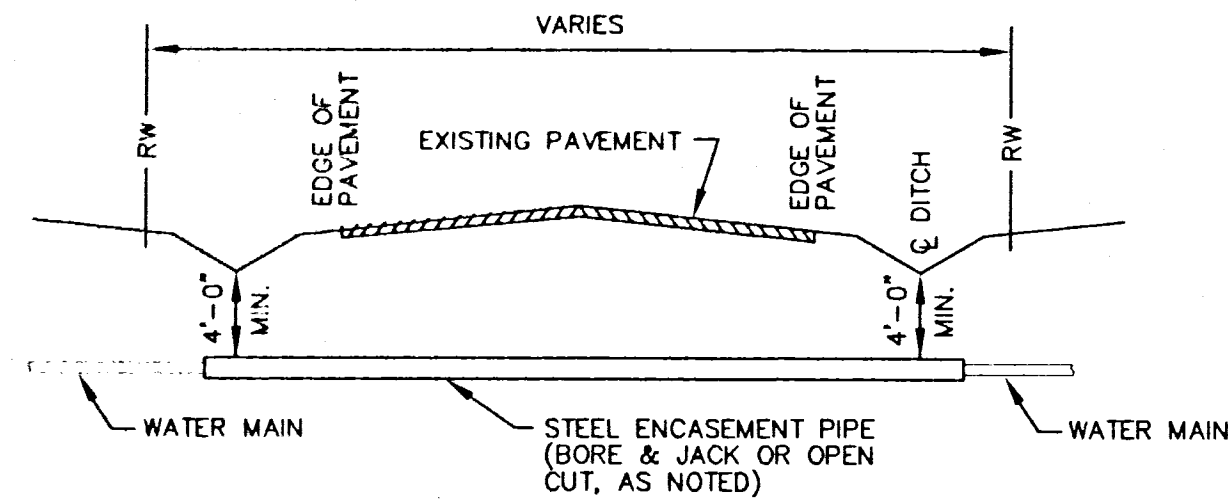
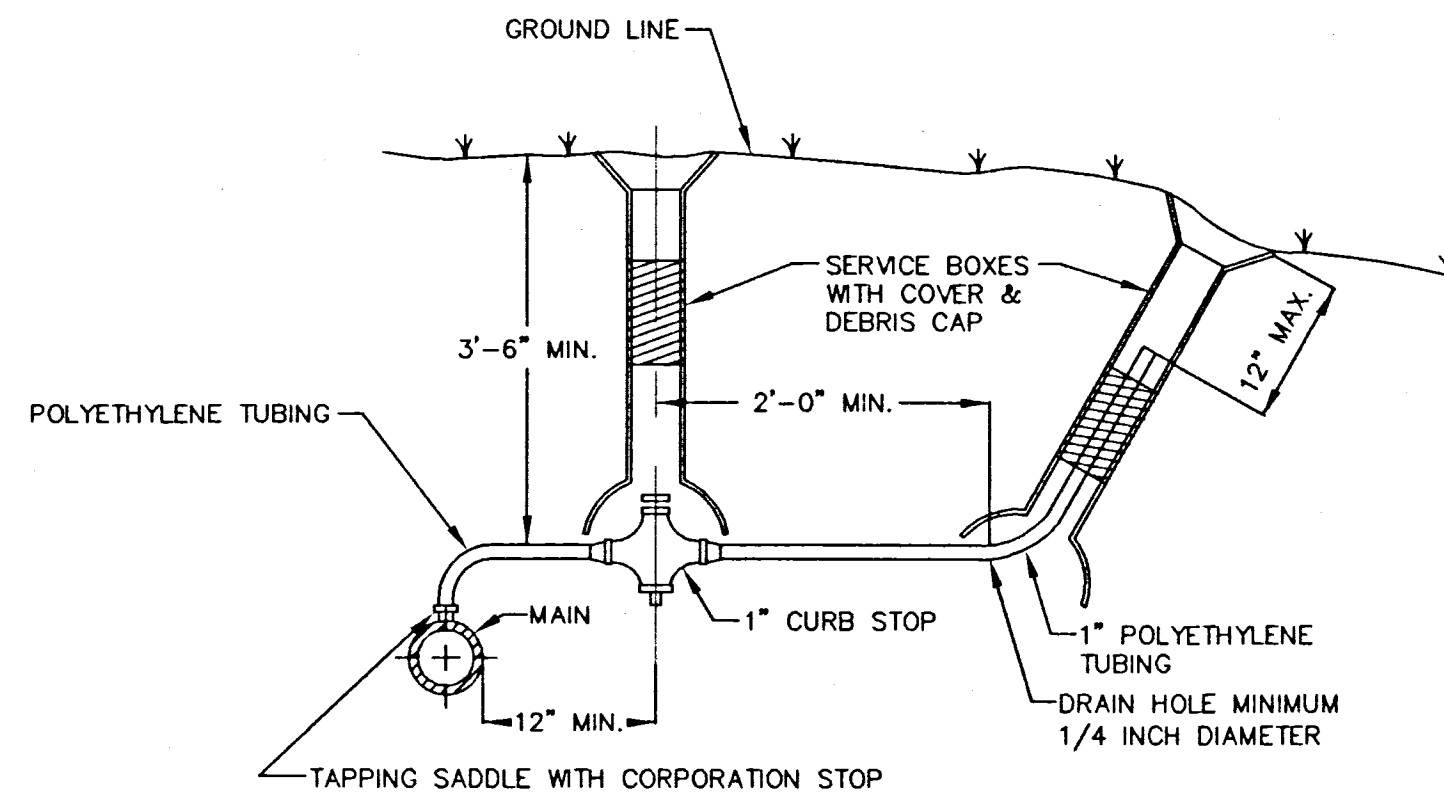


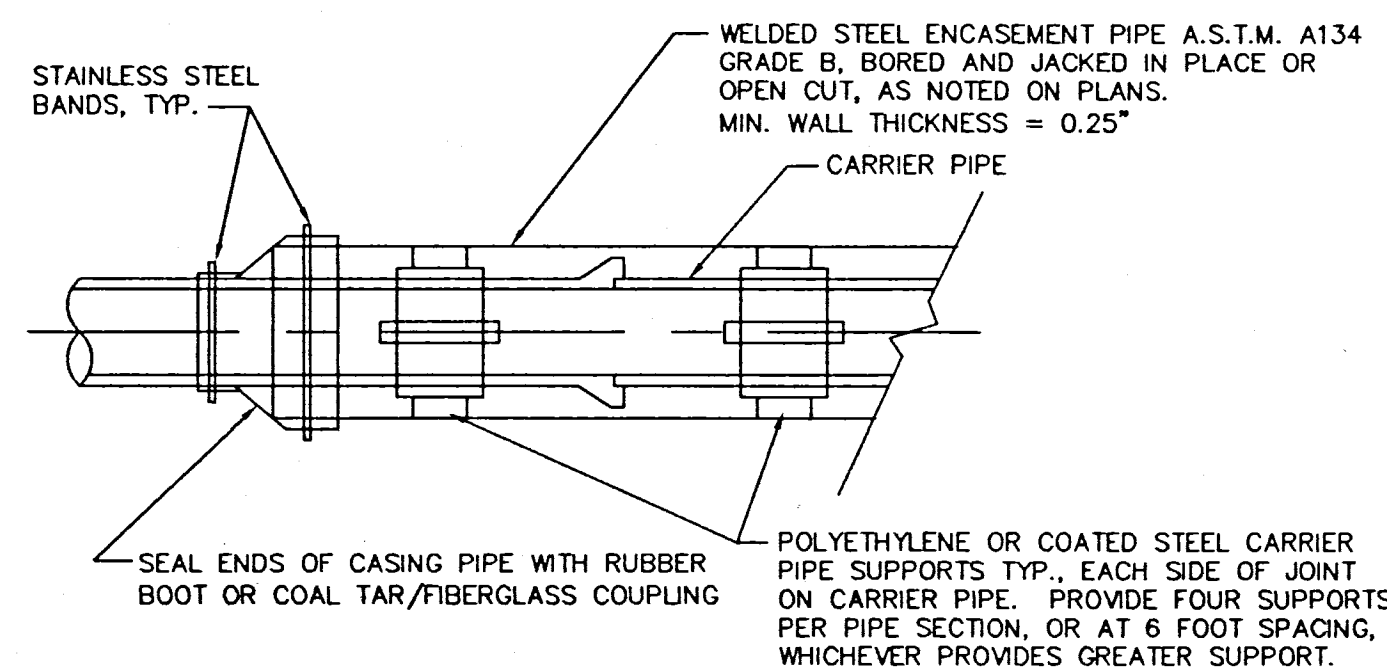


NOTE:
MINIMUM DISTANCE BETWEEN EDGE OF
PAVEMENT AND BORE PIT OR RECEIVING
PIT SHALL BE 12'. SHORTER DISTANCES
ARE SUBJECT TO APPROVAL OF THE ENGINEER.

**TYPICAL HIGHWAY CROSSING FOR
WATER MAINS IN ENCASEMENT PIPE**
SCALE: NONE



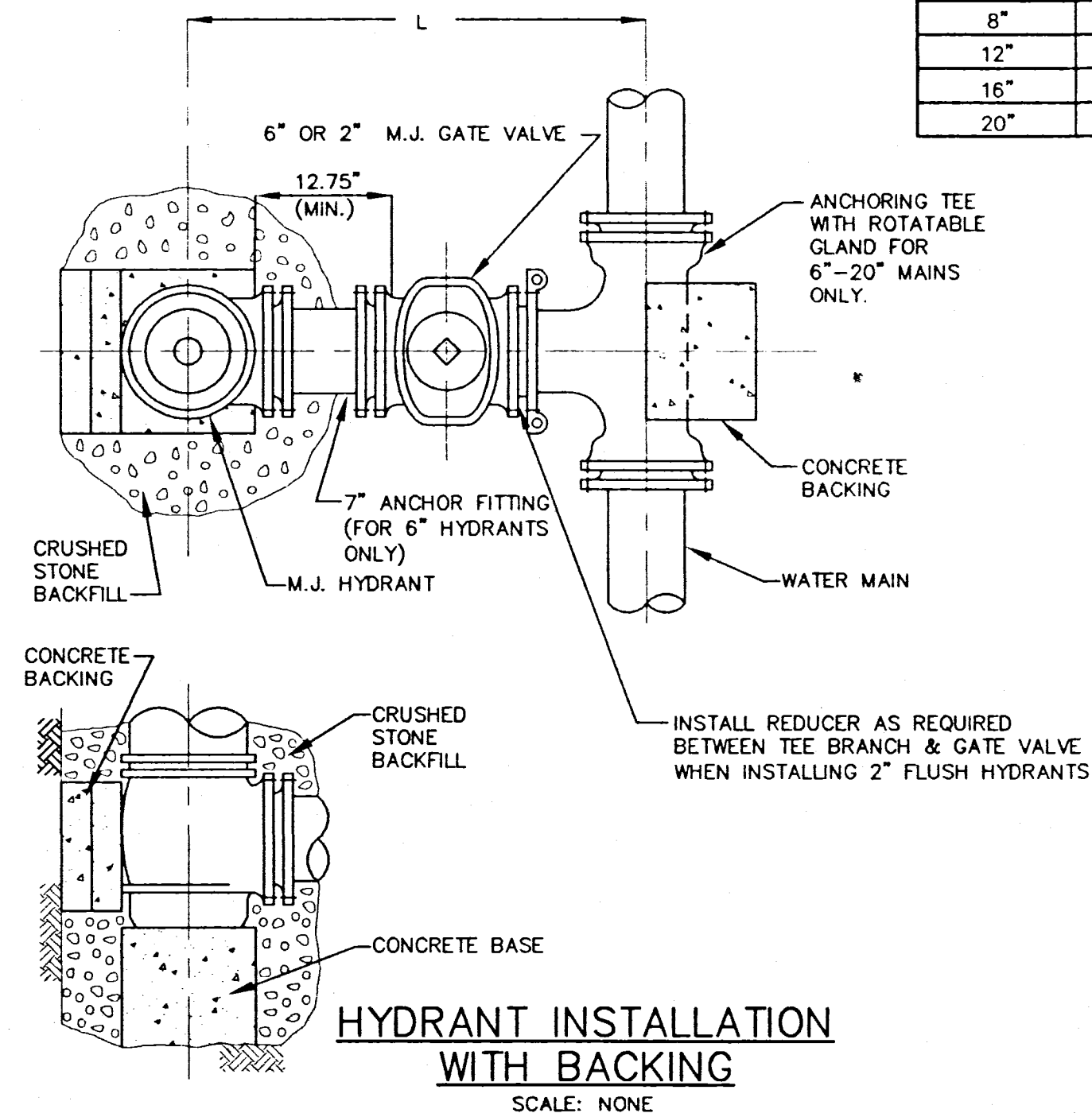
MANUAL AIR RELEASE ASSEMBLY
SCALE: NONE



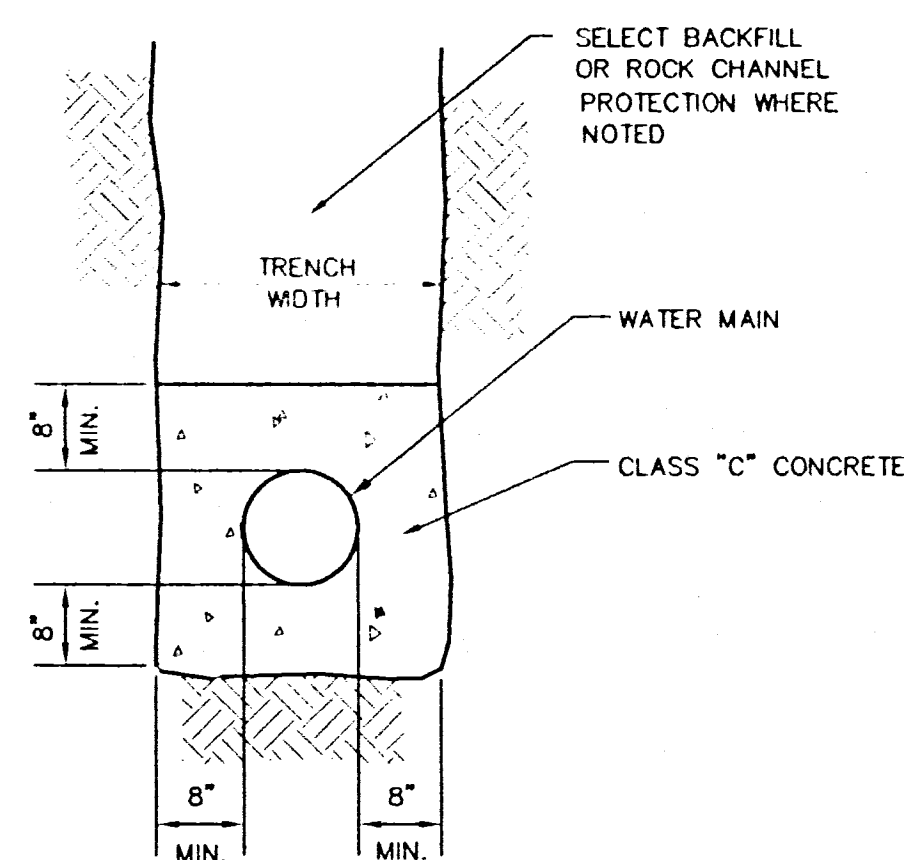
NOTE:
CONTRACTOR SHALL SUBMIT FOR APPROVAL
DRAWINGS DETAILING THE TYPE OF AUGER
STOP TO BE USED AT EACH BORE AND JACK
LOCATION

ENCASEMENT PIPE DETAIL
SCALE: NONE

WATER MAIN	DIMENSION "L" (MINIMUM)
≤ 6"	35"
8"	36"
12"	38"
16"	42"
20"	43"

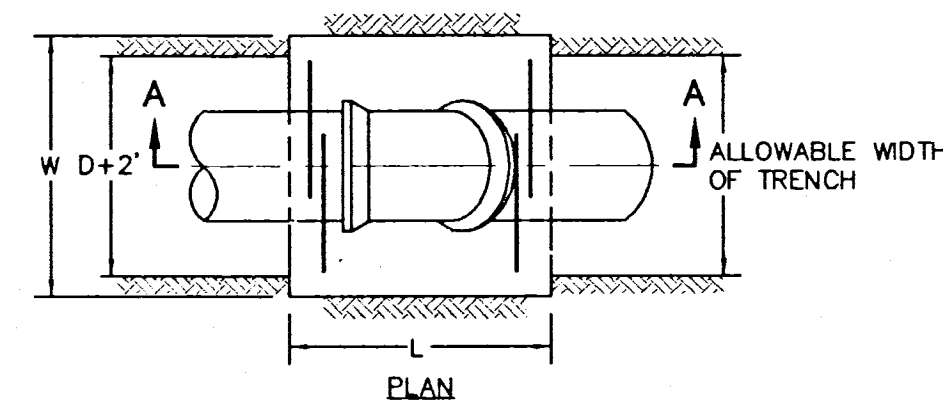


**HYDRANT INSTALLATION
WITH BACKING**
SCALE: NONE



CONCRETE ENCASEMENT DETAIL
SCALE: NONE

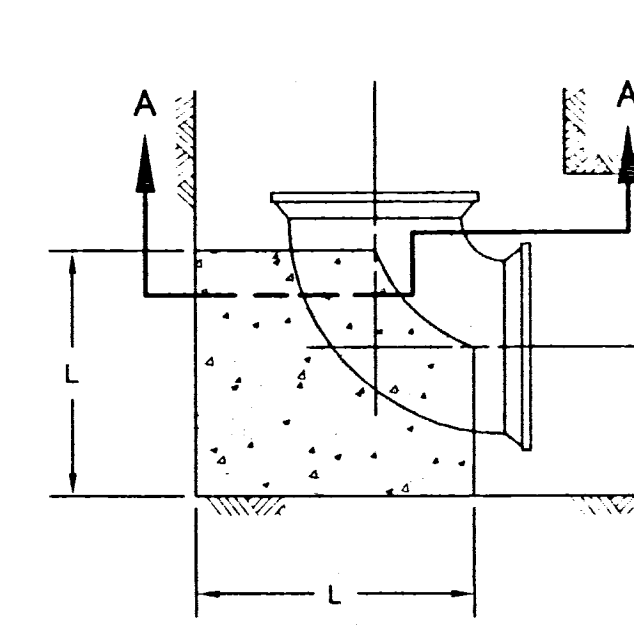
SIZE OF PIPE	DEGREE OF BEND											
	11 1/4°				22 1/2°				45°			
	L"	W"	H"		L"	W"	H"		L"	W"	H"	
6" OR LESS	12	48	18		15	43	36		30	55	24	
8"	12	63	24		18	57	34		36	57	33	
12"	20	56	36		37	62	37		48	62	51	
16"	31	65	38		60	65	39		65	65	65	
20"	45	70	40		56	70	60		72	77	78	
24"	41	76	54		67	74	69		88	84	84	



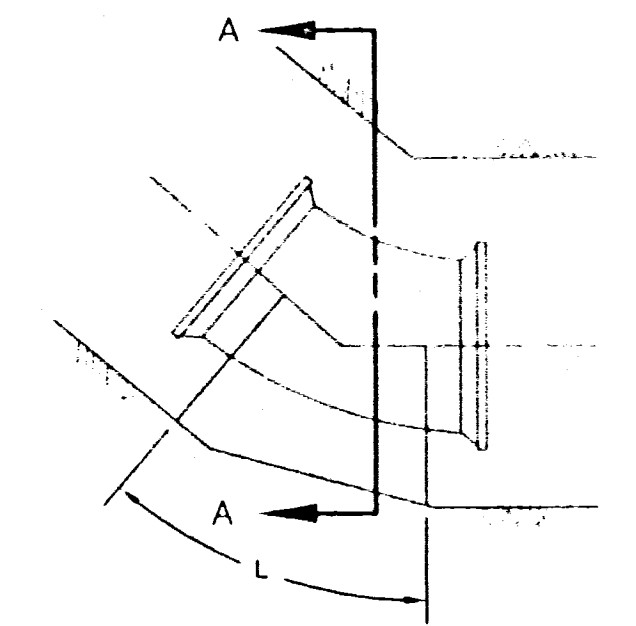
CONCRETE BACKING FOR VERTICAL BENDS
SCALE: NONE

1. BACKING DESIGNED FOR 3000 POUNDS PER SQUARE FOOT SOIL BEARING AND 150 POUNDS PER SQUARE INCH INTERNAL PRESSURE, WATER MAINS.
2. PROVIDE MINIMUM CONCRETE REINFORCEMENT OF 2 PAIR OF TWO #5 "U" BARS AT 12" C/C.
3. CENTER BACKING ON BEND.
4. THESE SAME DIMENSIONS WILL BE USED FOR SHORT BODY FITTINGS.
5. FOR BACKING FOR SDR 17 PVC PIPE, ADD 2" TO EACH DIMENSION GIVEN ABOVE.

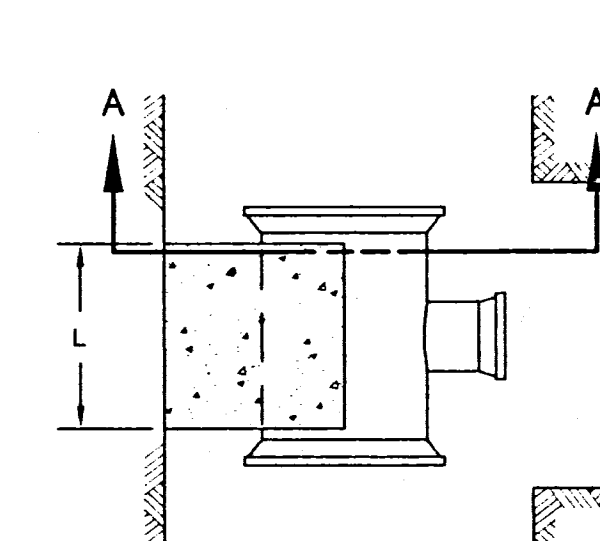
SIZE OF PIPE	DEGREE OF BEND												BRANCH											
	11 1/4°				22 1/2°				45°				6"				8"				12"			
	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"	L"	D"
6"	12	6	12	8	20	12	18	13	6"	18	13	8"	18	13	23	18	18	13	23	18	38	24		
8"	12	9	16	16	24	13	25	18	8"	18	13	23	18	38	24	14	16	20	20	36	25	49	32	
12"	15	13	22	18	36	30	32	30	12"	18	13	23	18	38	24	14	16	20	20	36	25	49	32	
16"	19	21	32	27	36	39	41	39	16"	14	16	20	20	36	25	49	32	14	16	20	20	36	25	
20"	25	24	30	32	49	49	50	50	20"	11	21	18	22	35	26	46	34	60	42					
24"	27	30	39	42	60	54	58	61	24"	9	25	15	27	30	30	42	38	54	46	68	52			



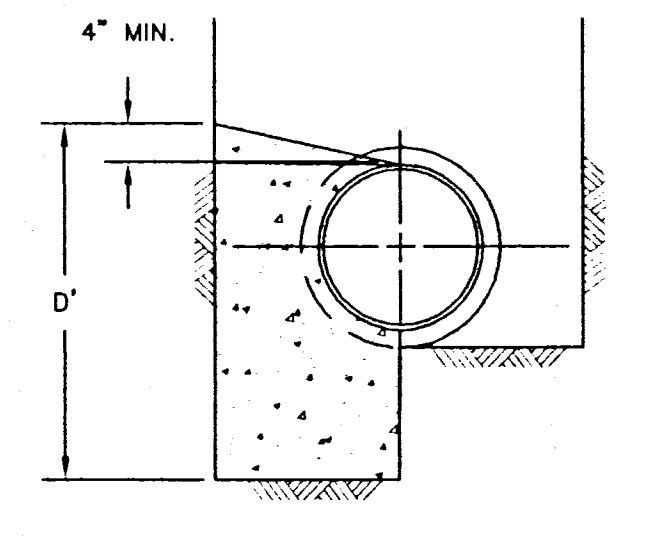
90° BENDS



BENDS LESS THAN 90°



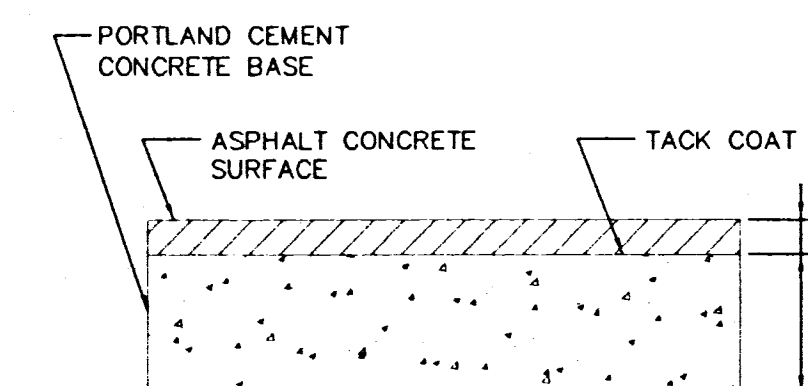
TEES



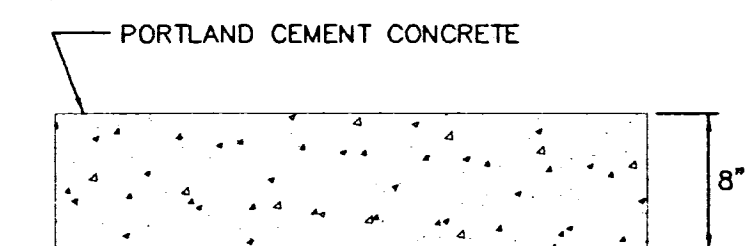
SECTION A-A

CONCRETE BACKING FOR HORIZONTAL BENDS & TEES
SCALE: NONE

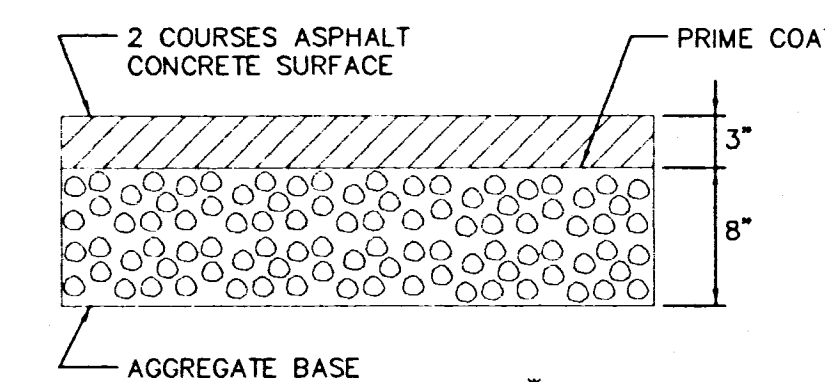
1. BACKING DESIGNED FOR 3000 POUNDS PER SQUARE FOOT SOIL BEARING AND 150 POUNDS PER SQUARE INCH INTERNAL PRESSURE, WATER MAINS.
2. PROVIDE CONCRETE REINFORCEMENT AS DIRECTED BY THE ENGINEER/ARCHITECT.
3. THESE SAME DIMENSIONS WILL BE USED FOR SHORT BODY FITTINGS.
4. FOR BACKING FOR 8" OR SMALLER SDR 17 PVC PIPE, ADD 2" TO EACH DIMENSION GIVEN ABOVE.



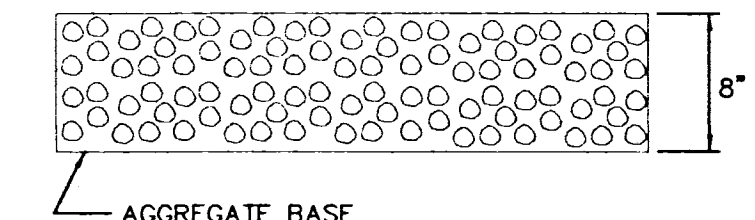
TYPE A*



TYPE B*



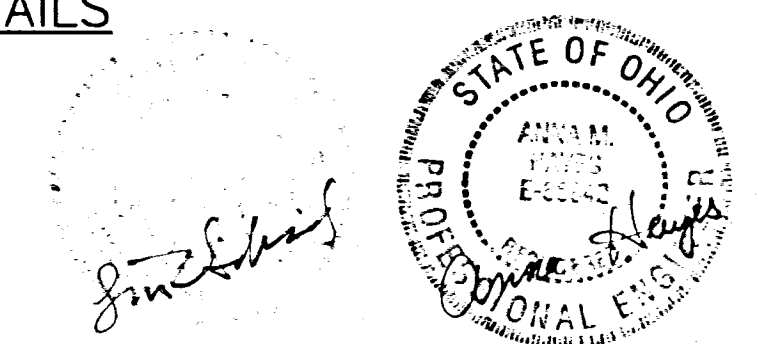
TYPE C*



TYPE D*

PAVEMENT AND DRIVE REPLACEMENT DETAILS
SCALE: NONE

* PAVEMENT TYPES INDICATED RELATE TO PAVEMENT REPLACEMENT LISTED IN THE PRICES TO INCLUDE OF THE SPECIFICATIONS (NOT ODOT PAVEMENT TYPES)



NO.	REVISIONS	DATE	BY	CHK.
1				
2				
3				
4				
5				

Burgess & Niple, Limited Parkersburg, WV



BURGESS & NIPLE

**MAYSVILLE REGIONAL WATER DISTRICT
WATER DISTRIBUTION SYSTEM IMPROVEMENTS
POTTS LANE
CONTRACT 02-2**

JOB NO.	31759
DESIGNED BY:	AMH
DRAWN BY:	DRD
CHECKED BY:	LES
APPROVED BY:	LES
DATE:	JUNE 2002

MISCELLANEOUS DETAILS

SCALE: NO SCALE	
SHEET NO. 7	OF 9