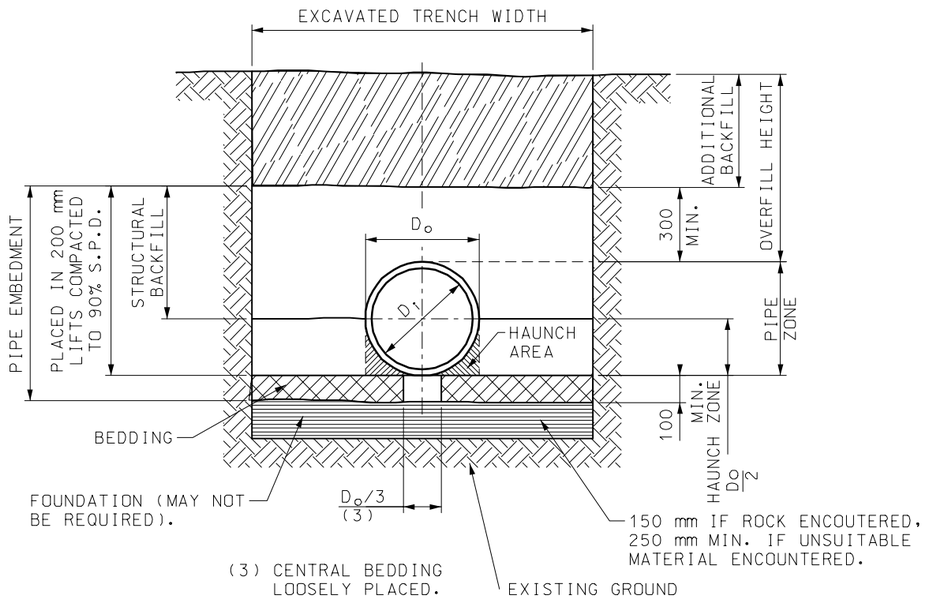
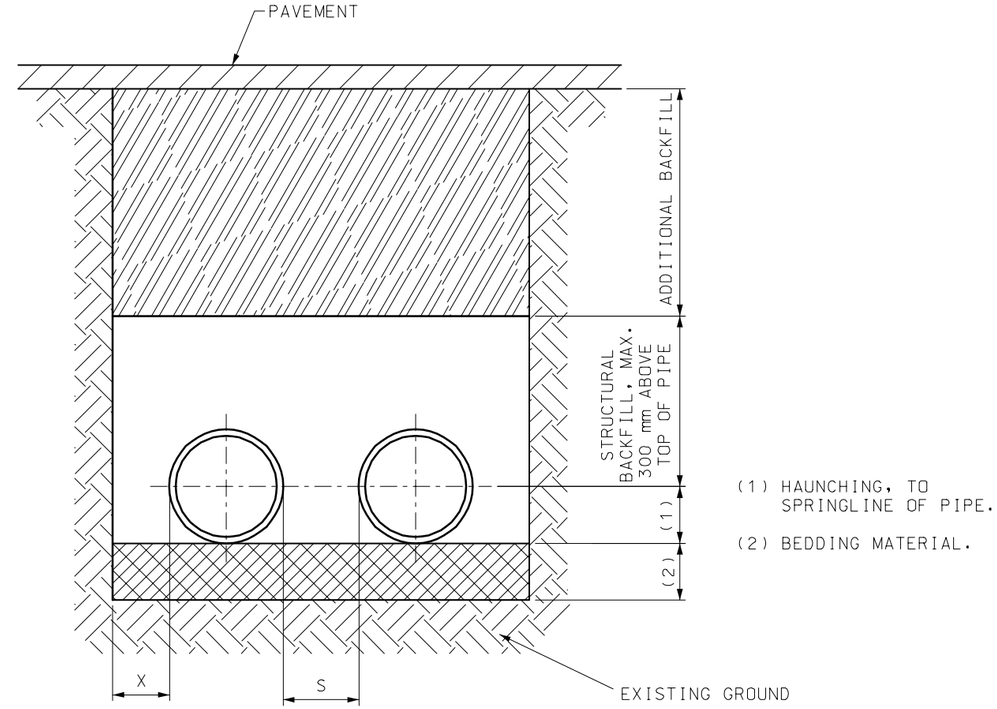


TYPICAL TRENCH DETAIL



(1) HAUNCHING, TO SPRINGLINE OF PIPE.

(2) BEDDING MATERIAL.

PARALLEL PIPE INSTALLATION
TYPICAL TRENCH CROSS-SECTION

TABLE I
CORRUGATED POLYETHYLENE AND POLYVINYL CHLORIDE CIRCULAR PIPE

SPECIFIED DIA OF PIPE (mm)	MIN OVERFILL HEIGHT (m)	POLYETHYLENE MAX OVERFILL HEIGHT✳ (m)	POLYVINYL CHLORIDE MAX OVERFILL HEIGHT✳ (m)		TRENCH WIDTH (mm)
			CLASS 1	CLASS 2	
300	0.3	11.4	14.7	7.8	850
375	0.3	11.7	13.8	6.6	975
450	0.3	12	15.3	6.9	1100
600	0.3	12	15.3	6.3	1375
750	0.3	12	15.0	5.7	1675
900	0.3	11.4	N/A	5.4	1900
1050	0.6	3	N/A	5.1	2100
1200	0.6	2.7	N/A	5.1	2375
1350	0.6	2.4	N/A	N/A	2600
1500	0.6	2.4	N/A	N/A	2825

✳ MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE.

PIPE SIZE	S (mm)	X (mm)
300	300	225
375	300	225
450	300	225
600	300	250
750	375	400
900	450	450
1050	525	450
1200	600	450

CONSTRUCTION SEQUENCE

1. PLACE BEDDING MATERIAL TO GRADE.
2. COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
3. INSTALL PIPE TO GRADE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
5. COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

LEGEND

D_i = NORMAL INSIDE DIAMETER OF PIPE.
D_o = OUTSIDE DIAMETER OF PIPE.
H = FILL COVER HEIGHT OVER PIPE (FEET).
MIN. = MINIMUM
MAX. = MAXIMUM
= UNDISTURBED SOIL

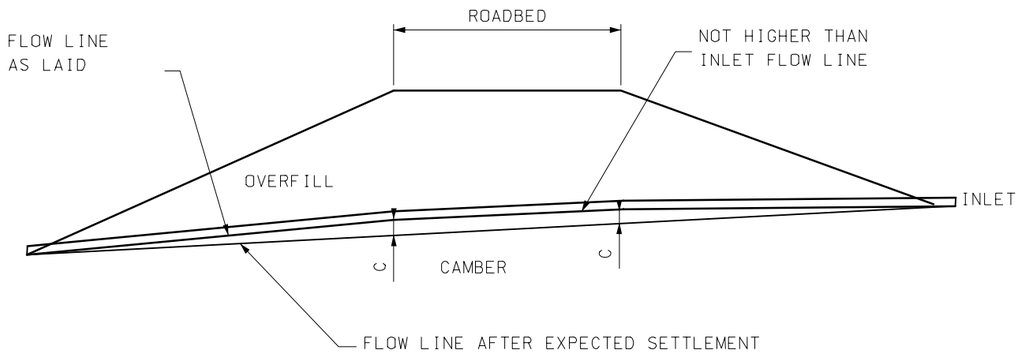
GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

CORRUGATED POLYETHYLENE AND POLYVINYL CHLORIDE PIPE INSTALLATION METHODS

DATE:_____ EFFECTIVE: 01-01-2005 **M730.00C** 1/2



NOTE:

ON YIELDING SOIL, PIPE CULVERTS SHALL BE PLACED ON A CAMBERED FLOW LINE. THE AMOUNT OF CAMBER WILL VARY WITH SOIL CONDITION AND WILL BE SPECIFIED ON THE DESIGN PLANS.

TYPICAL CAMBERED FLOW LINE

TABLE II

MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIA. (mm)	MINIMUM COVER (m) FOR INDICATED AXLE LOADS (kg)			
	5.4-15	15-22.5	22.5-33	33-45
300-900	900	1100	1300	1300
1050-1200	1300	1300	1500	1800

THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

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CORRUGATED POLYETHYLENE PIPE INSTALLATION METHODS

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