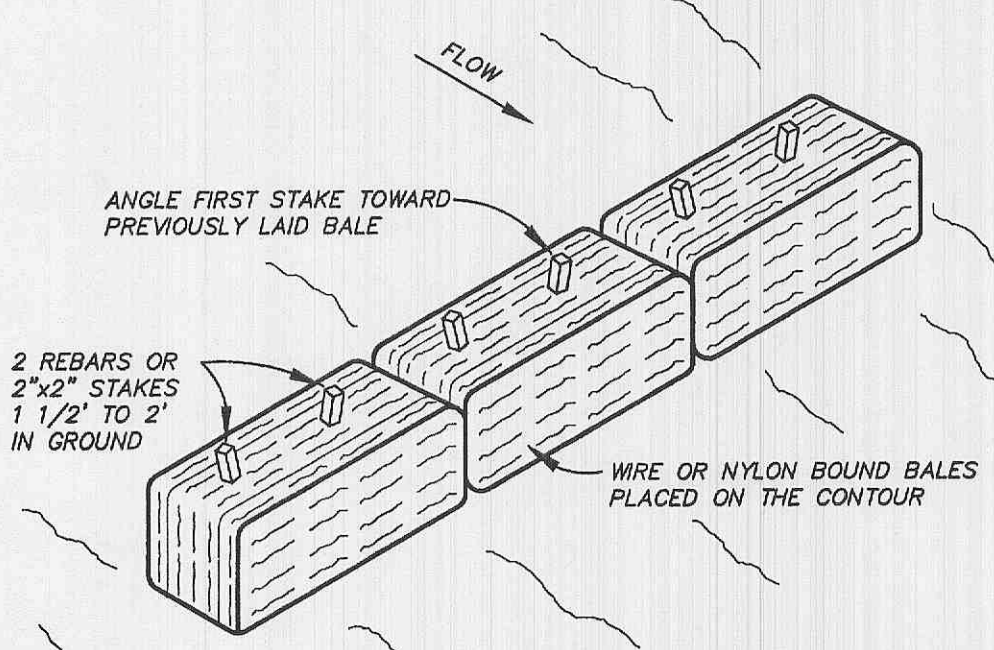


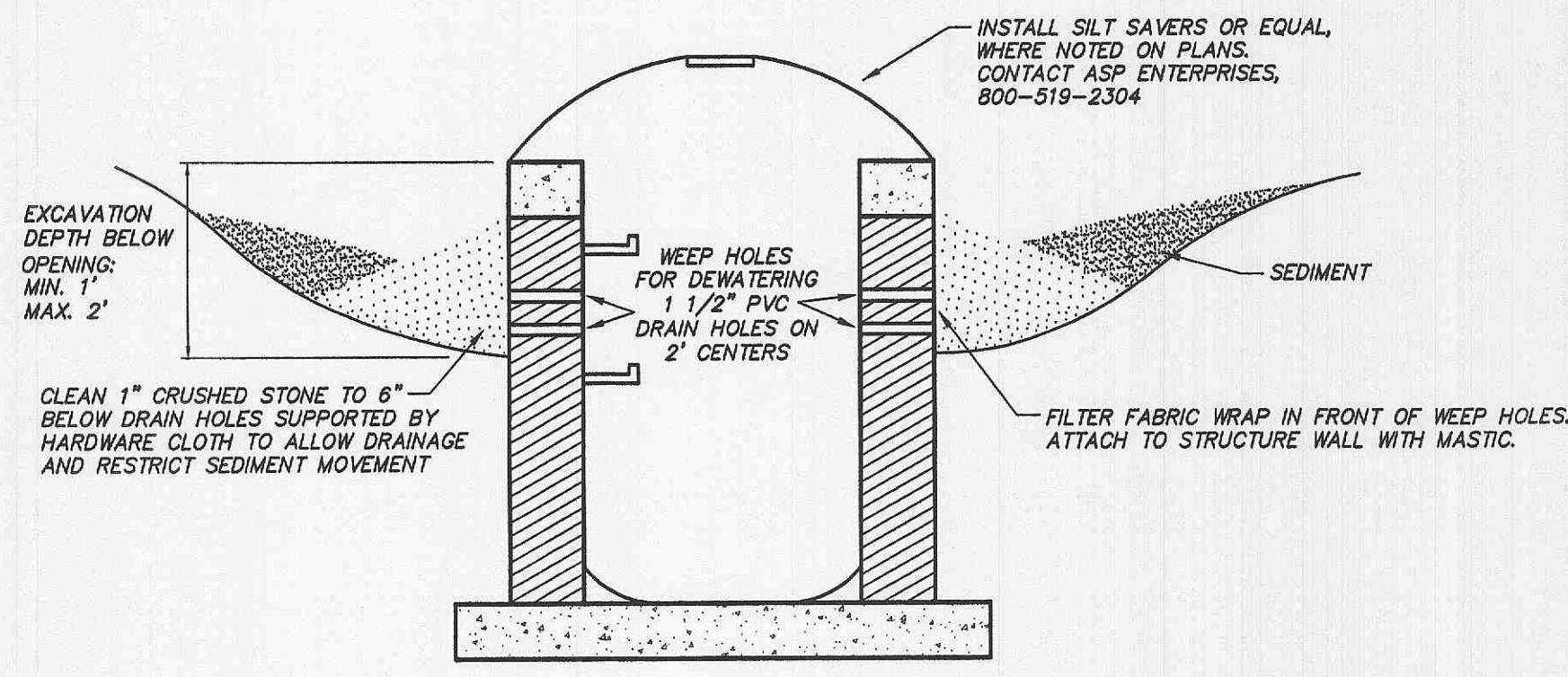
SILT FENCE NOTES

- CONTRACTOR SHALL INSTALL SILT FENCE AT TOE OF SLOPES OF ALL AREAS AFFECTED BY CONSTRUCTION PRIOR TO ANY EXCAVATION ON THE SITE.
- SILT FENCE SHALL REMAIN UNTIL VEGETATION HAS BEEN ESTABLISHED ON AFFECTED AREAS TO PREVENT EROSION.
- ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT OF 0.5 INCHES OR GREATER.
- ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIRS ARE FOUND TO BE NECESSARY, THEY WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
- BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- SILT FENCES WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.

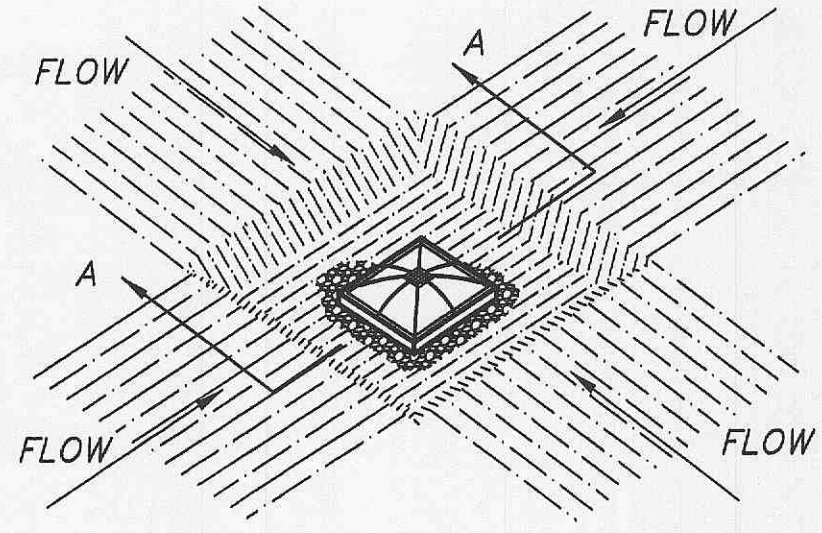


STRAW BALE DITCH CHECK NOTES

- CONTRACTOR SHALL INSTALL STRAW BALE EROSION CONTROL BARRIER AT TOE OF SLOPES OF ALL AREAS AFFECTED BY CONSTRUCTION PRIOR TO ANY EXCAVATION ON THE SITE.
- EROSION CONTROL BARRIER SHALL REMAIN UNTIL VEGETATION HAS BEEN ESTABLISHED ON AFFECTED AREAS TO PREVENT EROSION.
- SILT TRAPPED BY EROSION CONTROL BARRIER SHALL BE REMOVED AS NECESSARY TO PREVENT MOVEMENT OF SILT INTO THE ADJACENT AREAS.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE FINISH GRADED, SEEDED AND MULCHED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
- ENKAMAT 7010 OR EQUAL EROSION CONTROL MATTING SHALL BE PLACED AS PER CITY OF COLUMBIA SPECIFICATIONS IN NEWLY CONSTRUCTED DRAINAGE SWALES IMMEDIATELY AFTER FINISH GRADING AND SEEDING.

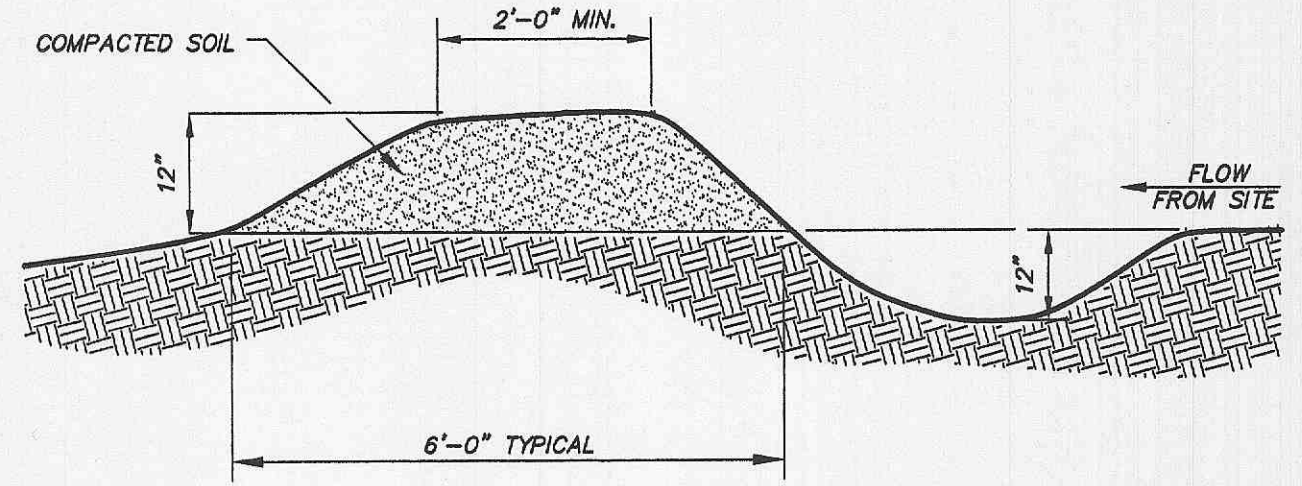


EXCAVATED INLET PROTECTION



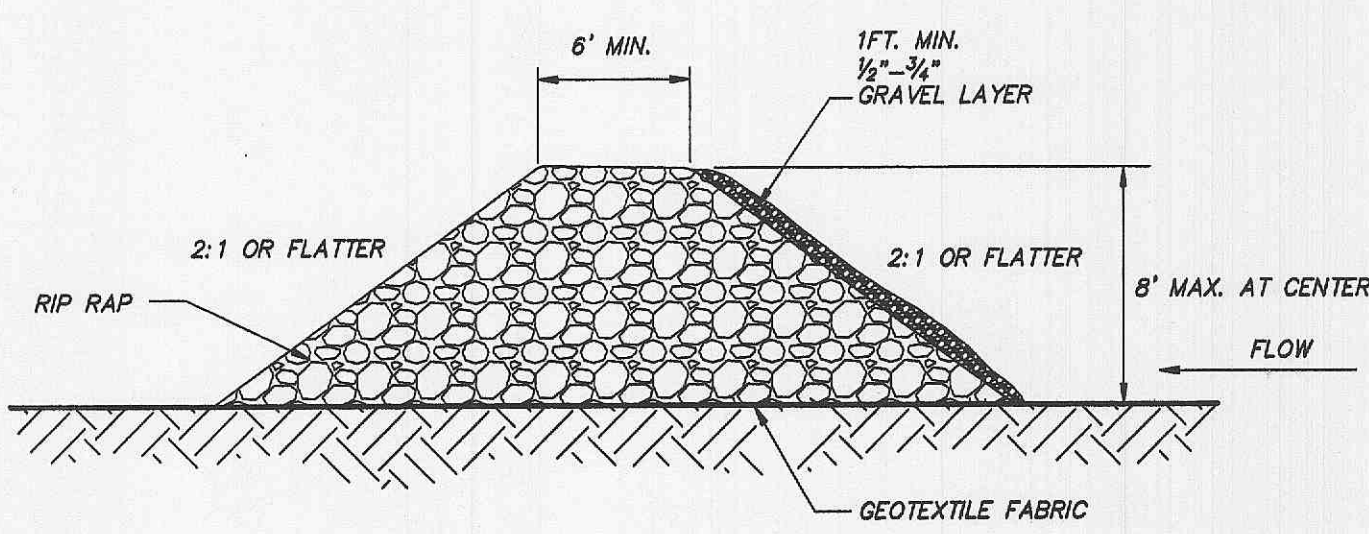
EXCAVATED INLET PROTECTION

NOT TO SCALE

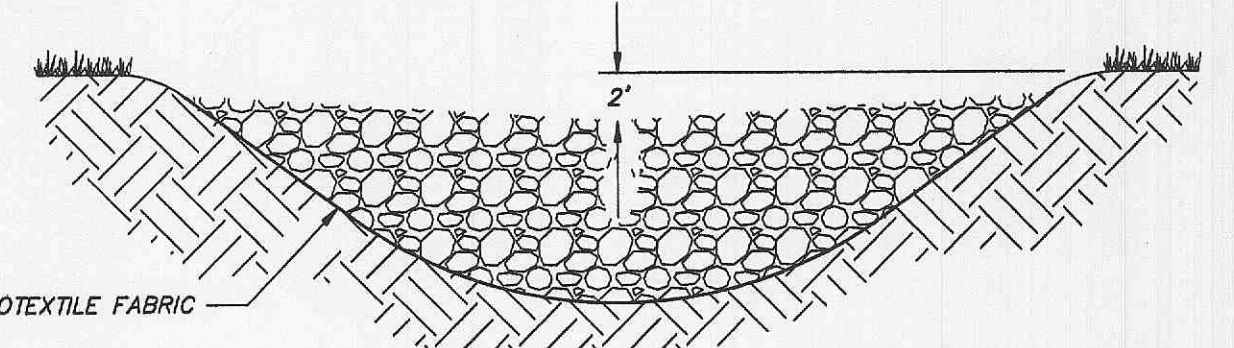


TEMPORARY DIVERSION DITCH

NOT TO SCALE



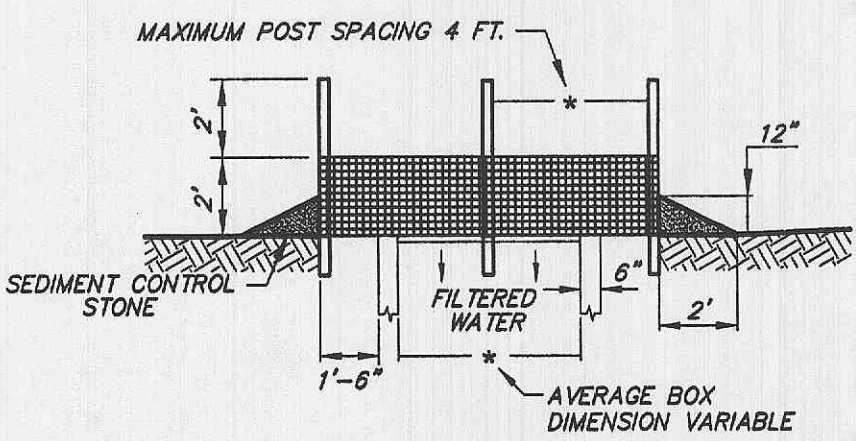
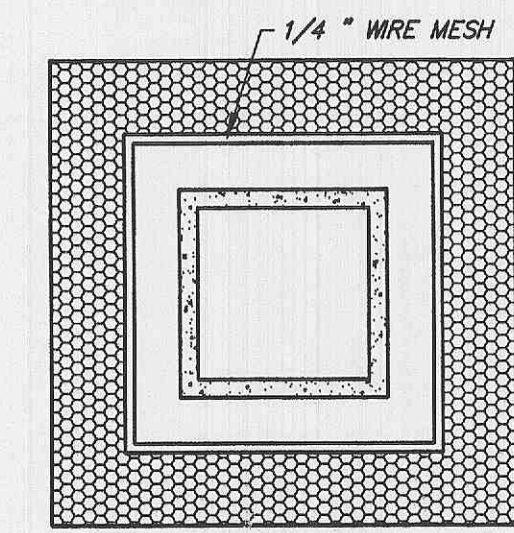
ROCK DAM CROSS SECTION



NOTE: ROCK SHALL BE WELL GRADED, ANGULAR LIMESTONE WITH A d₅₀ = 9 IN MIN.

ROCK DAM DETAIL

NOT TO SCALE

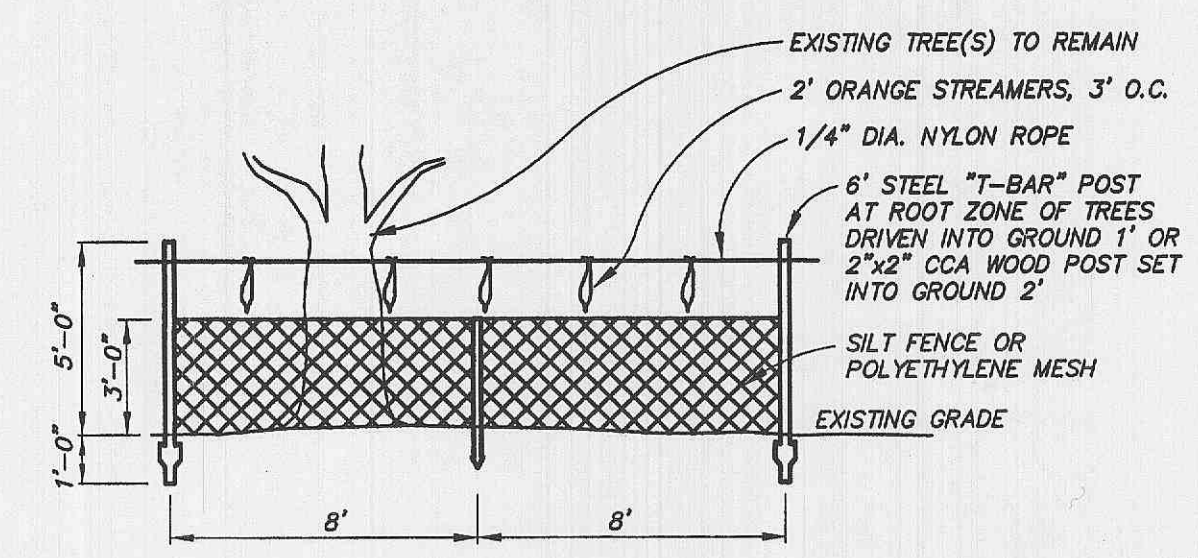


NOTE:

- SEDIMENT CONTROL STONE SHALL BE 3/4" WASHED STONE.
- WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4" INCH MESH OPENINGS.
- TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
- STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
- WOOD POST SHALL BE 6 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER.
- POST SPACING SHALL BE A MAXIMUM OF 4 FT.

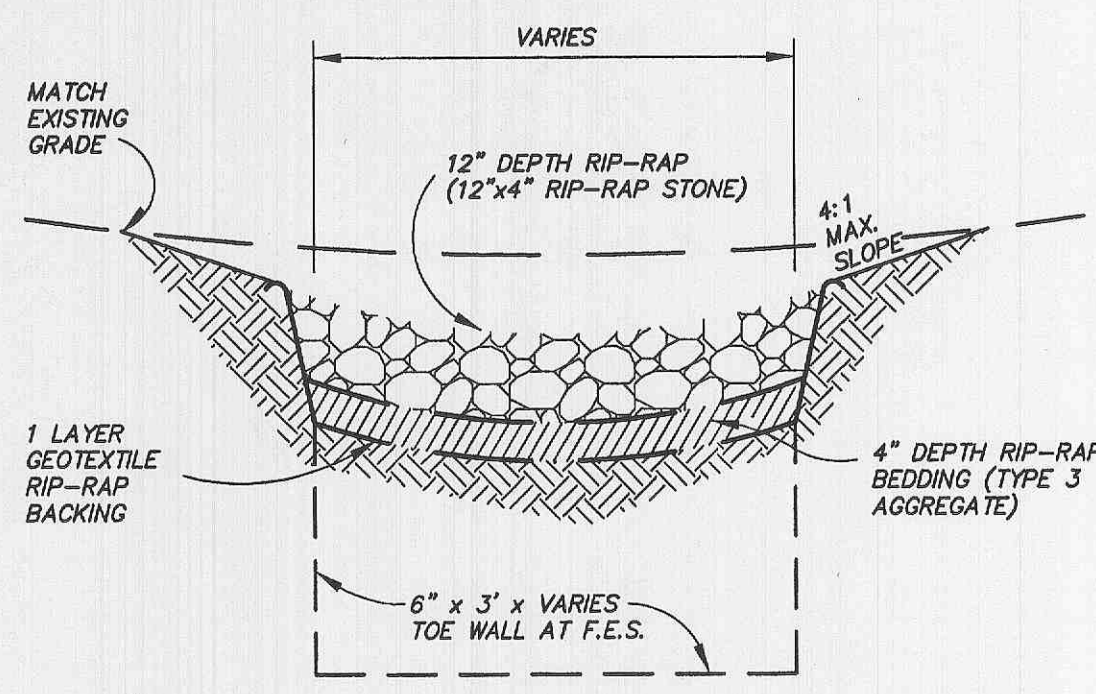
INLET PROTECTION

NOT TO SCALE



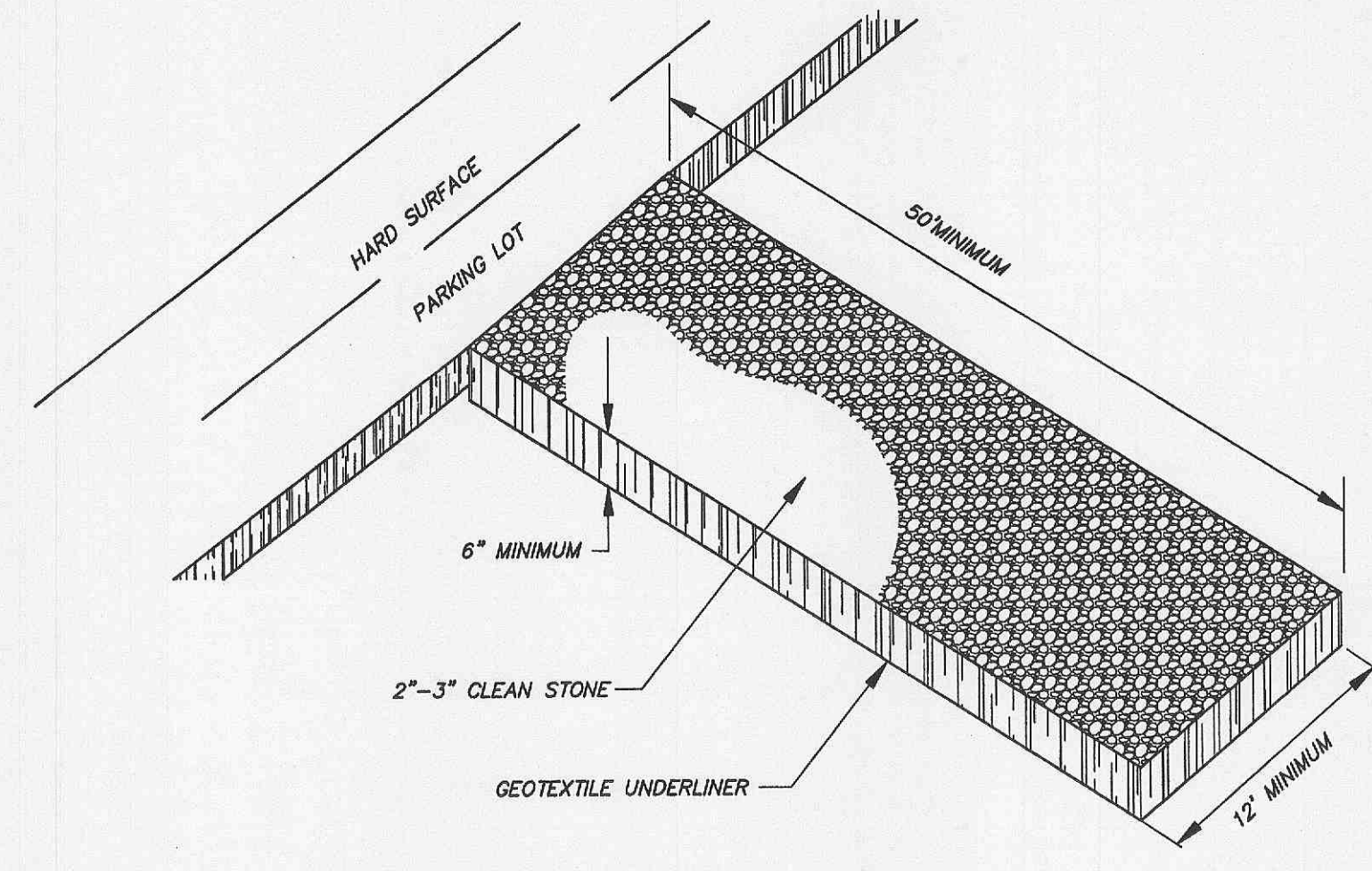
TREE PROTECTION BARRIER

NOT TO SCALE



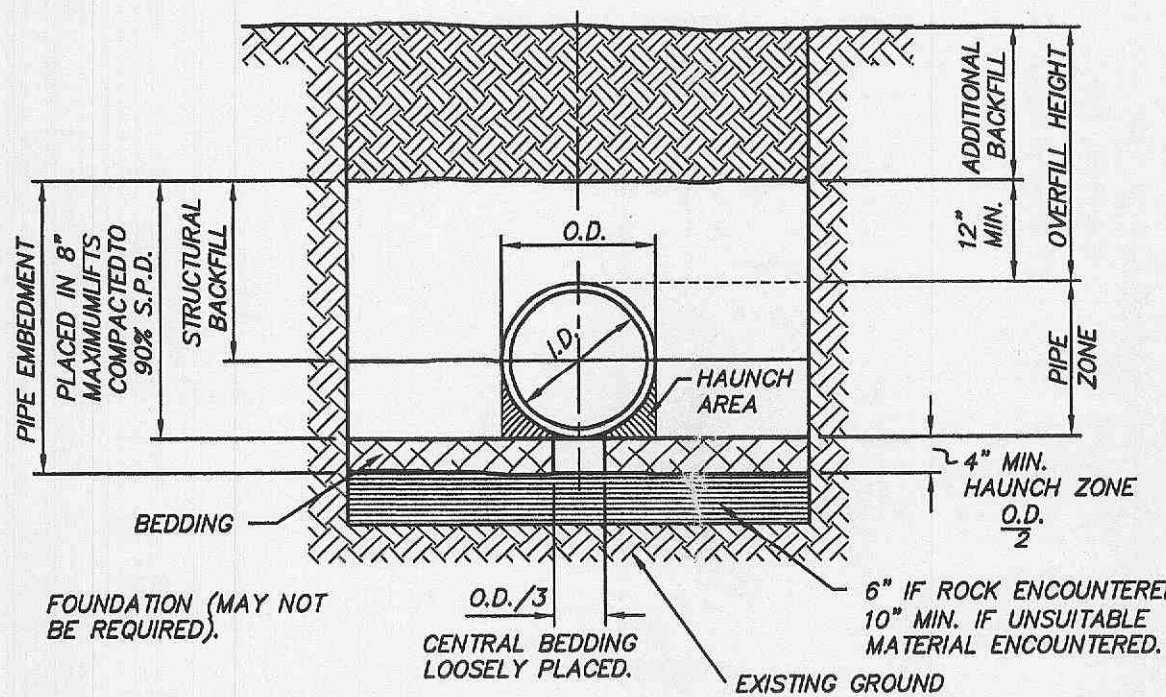
RIP-RAP DETAIL

NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE



TYPICAL TRENCH DETAIL

BACKFILL NOTES

- BEDDING, HAUNCH, AND STRUCTURAL BACKFILL SHALL BE IN CONFORMANCE W/ AASHTO M145 GROUP A-1, A-2, OR A-3 COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.
- ADDITIONAL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.

TABLE I
CORRUGATED HDPE AND POLYVINYL CHLORIDE CIRCULAR PIPE

SPECIFIED DIA OF PIPE (IN.)	MIN OVERFILL HEIGHT (FT)	HDPE		POLYVINYL CHLORIDE		TRENCH WIDTH (IN.)
		MAX OVERFILL HEIGHT (FT)	SDR 35#	MAX OVERFILL HEIGHT (FT)	SDR 26#	
12	1	38	15	30	34	34
15	1	39	15	30	39	39
18	1	40	15	30	44	44
24	1	40	15	30	55	55
30	1	40	N/A	N/A	67	67
36	1	38	N/A	N/A	76	76
42	2	23	N/A	N/A	84	84
48	2	12	N/A	N/A	95	95
54	2	12	N/A	N/A	104	104
60	2	12	N/A	N/A	113	113

* MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE
PER ASTM D-3034 FOR PIPE UP TO 15" AND ASTM F879 OVER 15"

TABLE III
PARALLEL PIPE INSTALLATION

PIPE SIZE	S (IN.)	X (IN.)
12	12	9
15	12	9
18	12	9
24	12	10
30	15	18
36	18	18
42	21	18
48	24	18

S = MINIMUM PIPE SEPARATION (IN) BETWEEN OUTSIDE WALLS OF PIPES.
X = MINIMUM SEPARATION BETWEEN TRENCH WALL AND OUTSIDE WALL OF PIPE.

CONSTRUCTION SEQUENCE

- PLACE BEDDING MATERIAL TO GRADE.
- COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
- INSTALL PIPE TO GRADE.
- PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
- COMPLETE BACKFILL TO SPECIFICATIONS.

LEGEND

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

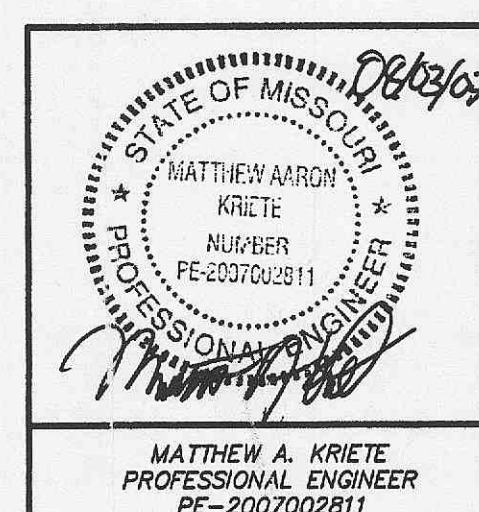
TABLE II
MINIMUM COVER FOR CONSTRUCTION LOADS

PIPE DIA. (IN.)	MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS)			
	18-50	50-75	75-110	110-150
12-36	2.0	2.5	3.0	3.0
42-48	3.0	3.0	3.5	4.0

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.

EMBEDMENT OF PLASTIC STORM SEWER PIPE

NOT TO SCALE



PLANNING & DEVELOPMENT #4204.04

DETAILS

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ST. CHARLES COUNTY, O'FALLON, MISSOURI

Engineering Surveys & Services

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573-449-2646

Surveyed: JLS
Checked: TO/MK

Scale: AS SHOWN

Date: 11 JUNE 2007

Job: 0600

Sheet: 6 of 9