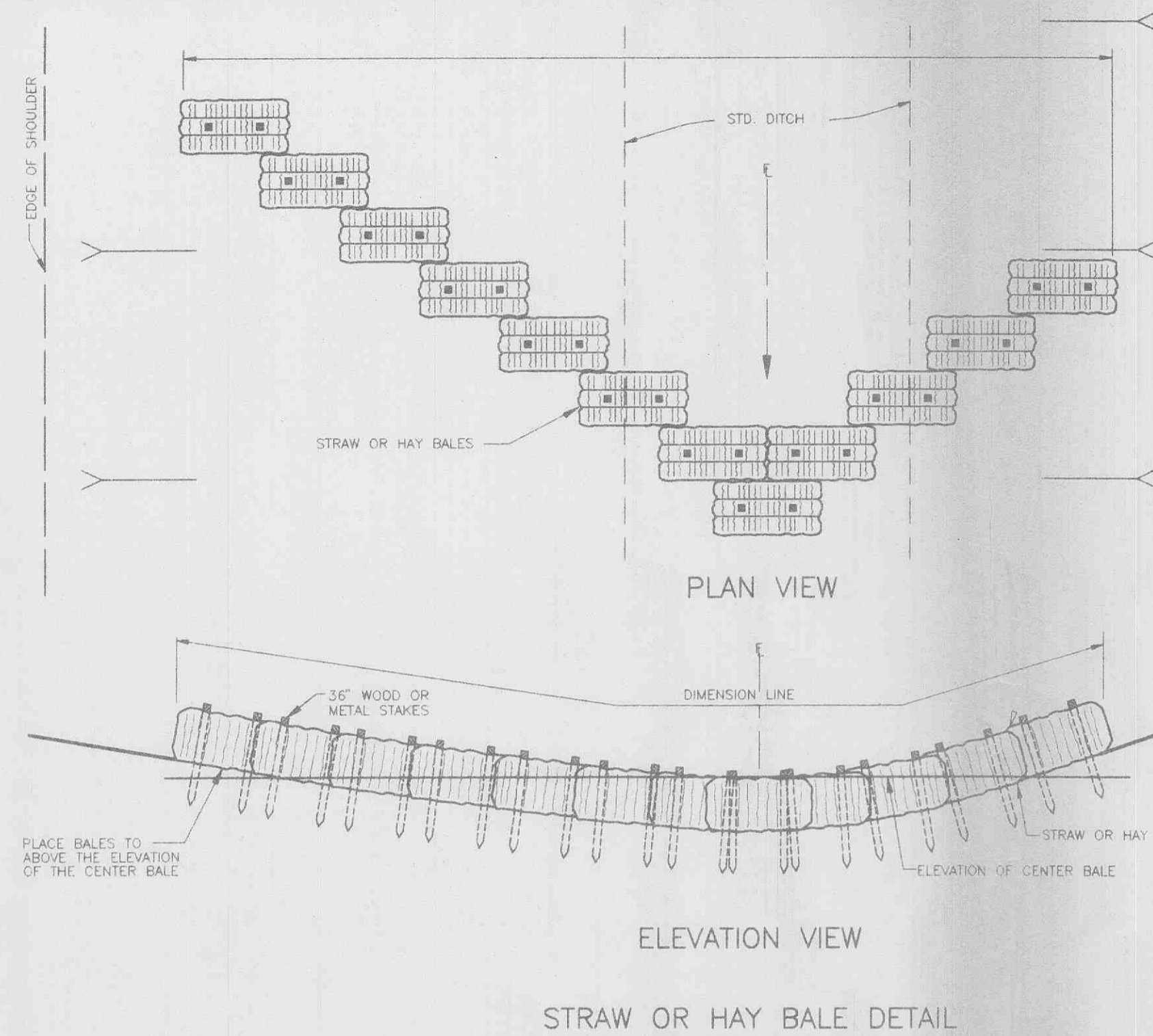
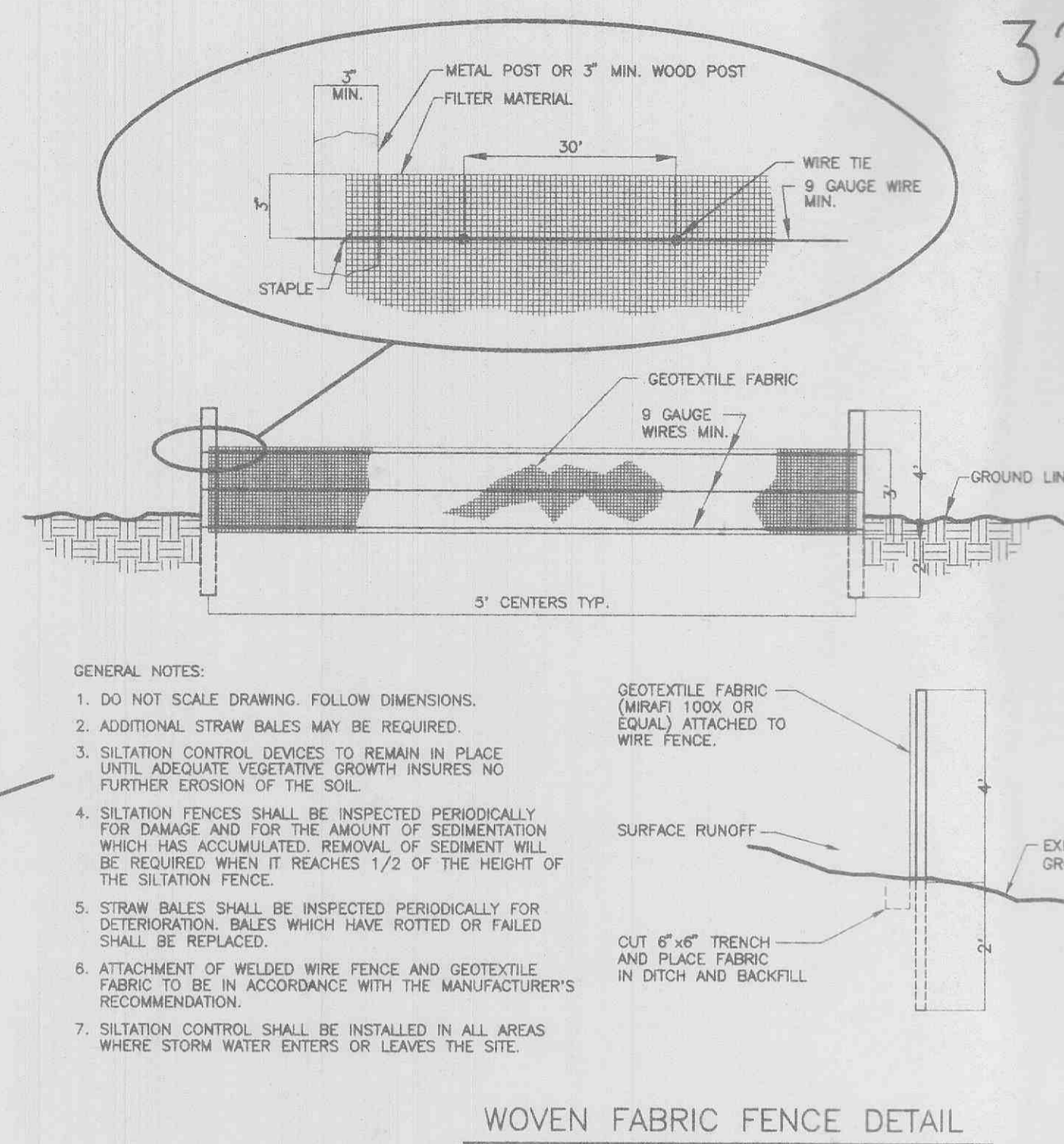


SANITARY SEWER CLEANOUT DETAIL
NO SCALE



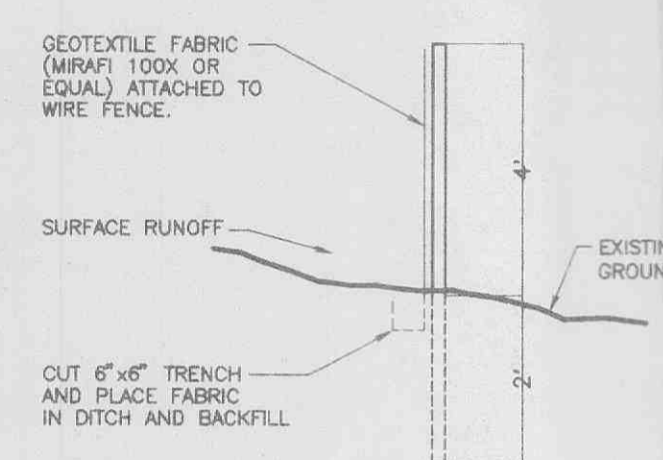
SILTATION CONTROL DETAILS
NO SCALE



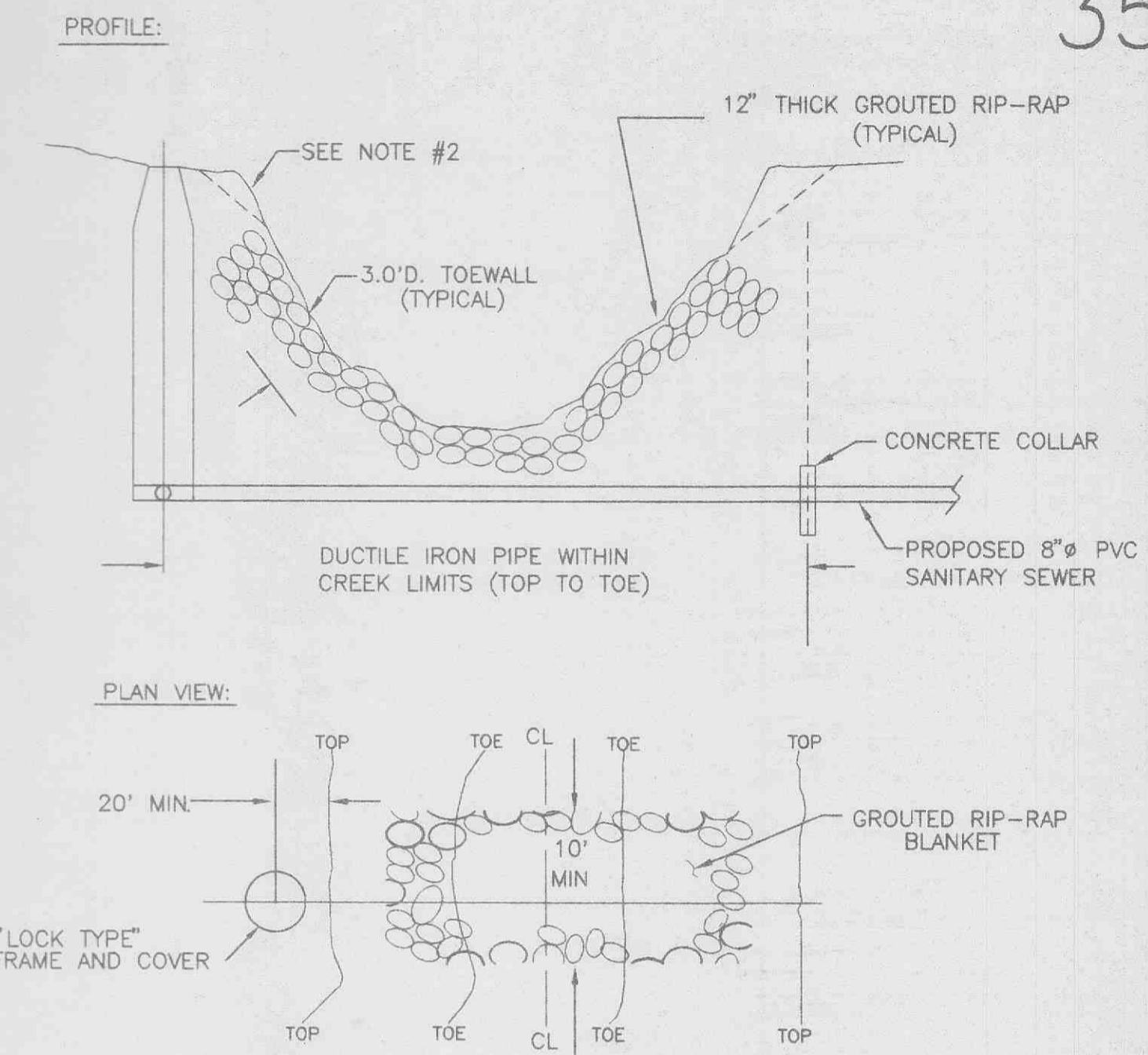
WOVEN FABRIC FENCE DETAIL

GENERAL NOTES:

- DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
- ADDITIONAL STRAW BALES MAY BE REQUIRED.
- SILTATION CONTROL DEVICES TO REMAIN IN PLACE UNTIL ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
- SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENTATION WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE SILTATION FENCE.
- STRAW BALES SHALL BE INSPECTED PERIODICALLY FOR DETERIORATION. BALES WHICH HAVE ROTTED OR FAILED SHALL BE REPLACED.
- ATTACHMENT OF WELDED WIRE FENCE AND GEOTEXTILE FABRIC TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- SILTATION CONTROL SHALL BE INSTALLED IN ALL AREAS WHERE STORM WATER ENTERS OR LEAVES THE SITE.



NO SCALE

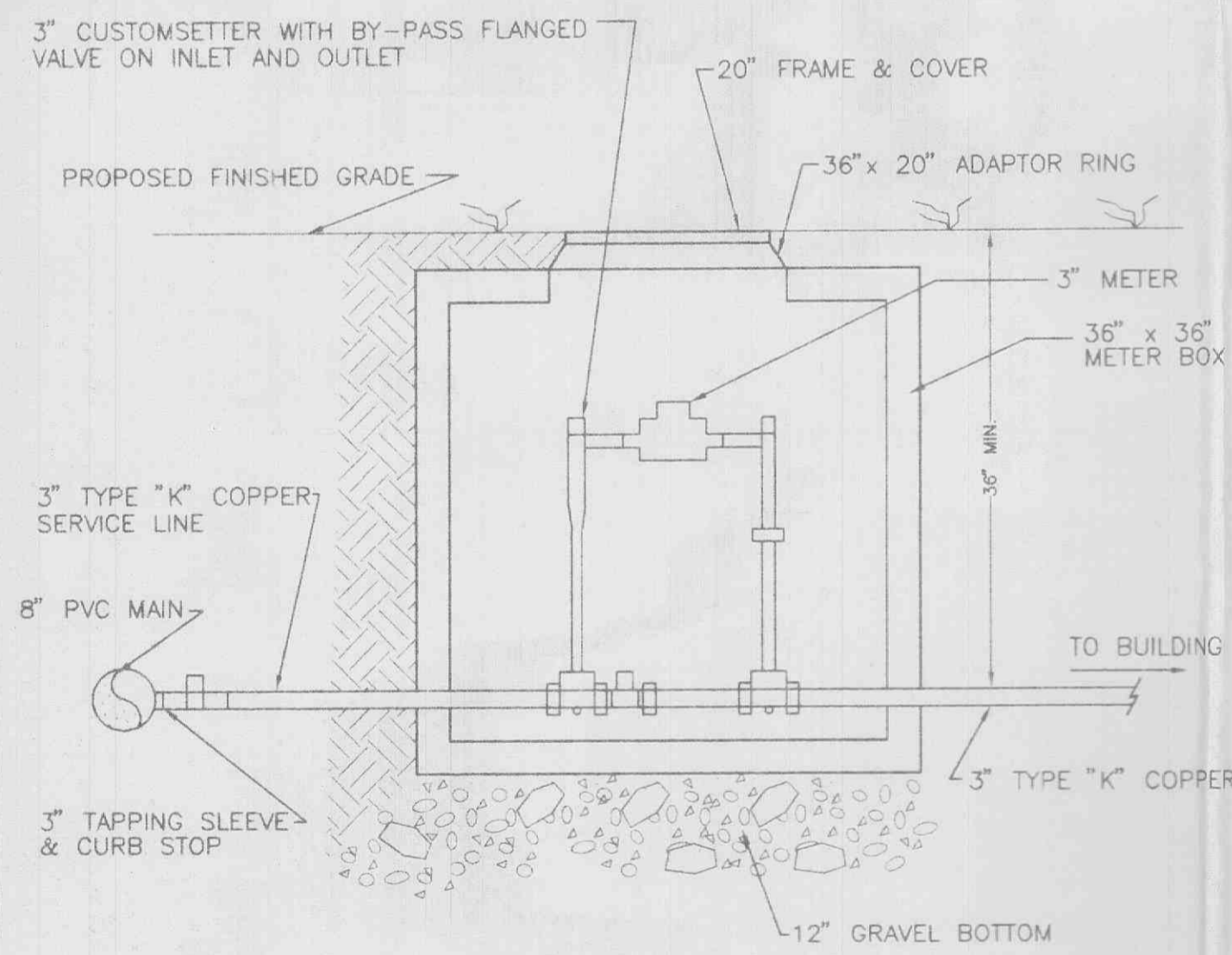


DUCKETT CREEK SANITARY DISTRICT TYPICAL CREEK CROSSING

NOTES:

- GROUTED rip-rap is required at all creek crossings where the embankment crossed are steeper than 1 vertical to 2 horizontal ratio slope; and also where there is 3.0 feet or less cover over top of pipe.
- Place rip-rap on lower 3/4 of slope. Grade upper 1/4 of slope at 1 vertical to 2 horizontal slope for sod or 1 vertical to 2.5 horizontal slope for seeds and straw.
- Rip-rap to be 'MSD 5' gradation, minimum 12" thick, grouted with 8 sack mix, sand-cement slurry, broom finish.
- Incorporate a 3' feet deep toe wall on embankment's upper edge of rip-rap.
- Top surface of rip-rap should not be higher than adjacent ground surface.
- If pipe has less than 12" cover, a paved channel may be required.
- Ductile iron pipe required within creek limits.

TYPICAL CREEK CROSSING
NO SCALE



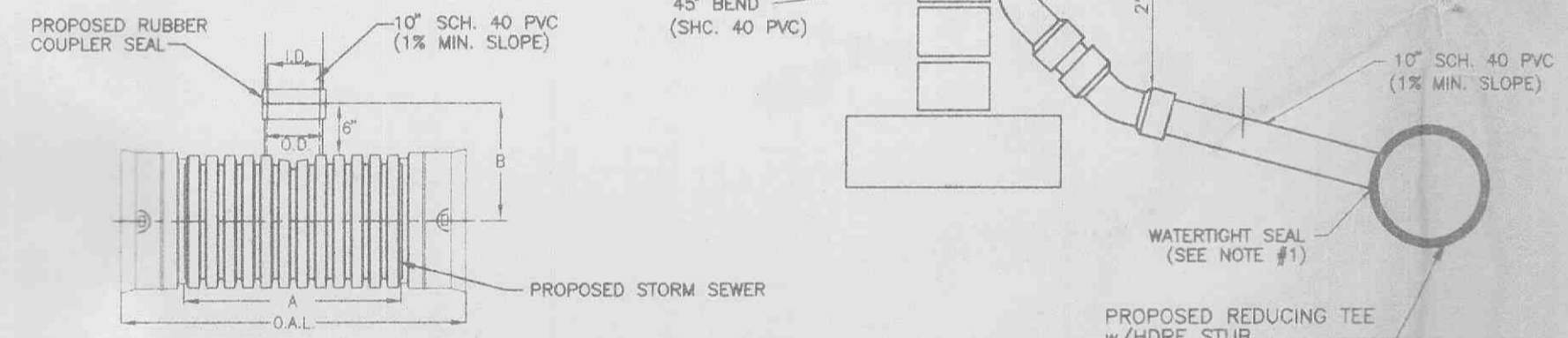
- NOTES:
- SEE UTILITY PLAN FOR LOCATION OF METER PIT & SERVICE CONNECTION.
 - ALL SERVICE CONNECTION EQUIPMENT SHALL MEET ST. CHARLES COUNTY PUBLIC WATER SUPPLY, DISTRICT 2 REGULATIONS.

WATER SERVICE CONNECTION & METER PIT DETAIL
NO SCALE

NOTES:

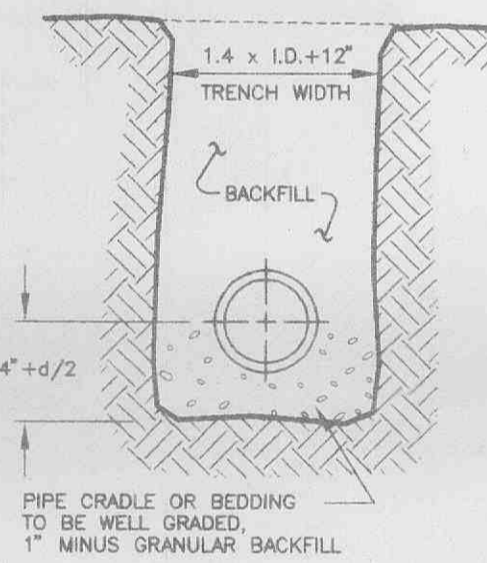
- WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
- THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITESWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE ROCKET SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE ROCKET SCREEN.

REDUCING TEE / HDPE STUB				
SIZE	A	B	O.D.	O.A.L.
18 X 10	38.0	16.7	10.7	10.0
30 X 10	46.3	22.6	10.7	10.0



DOWNSPOUT COLLECTOR DETAIL
NO SCALE

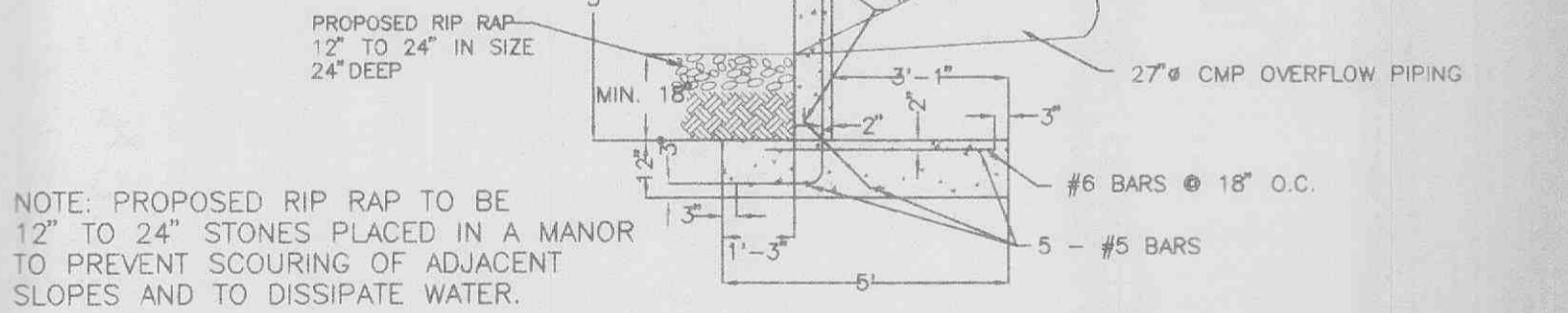
- ALL TRENCHES SHALL HAVE A BEDDING OF WELL GRADED, 1" MINUS, GRANULAR MATERIAL FROM 4" BELOW THE BOTTOM OF THE PIPE TO 1/2 THE DIAMETER OF THE PIPE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- IN AREAS TO BE PAVED OVER, ENTIRE TRENCH TO BE BACKFILLED WITH WELL GRADED GRANULAR MATERIAL & COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY.
- IN AREAS OF CLEAN DIRT CUTS OUTSIDE OF PAVED AREAS, TRENCH MAY BE BACKFILLED WITH SAME MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY.
- IN AREAS OF ROCK CUT, THE TRENCH SHALL BE BACKFILLED WITH WELL GRADED GRANULAR MATERIAL TO 6" ABOVE TOP OF PIPE.
- BACKFILL SHALL BE HOLLOWED OUT FOR PIPE JOINTS AND FITTINGS. PIPE JOINTS ARE UNSUPPORTED.
- ALL TRENCHING OPERATIONS SHALL BE IN ACCORDANCE WITH ALL OSHA REQUIREMENTS.



TRENCHING AND BEDDING DETAIL
NO SCALE

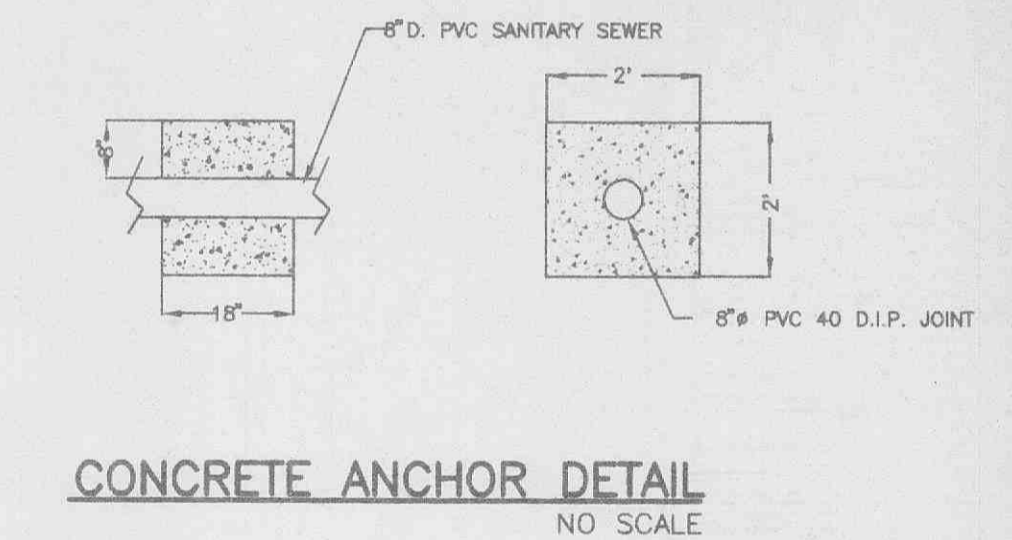
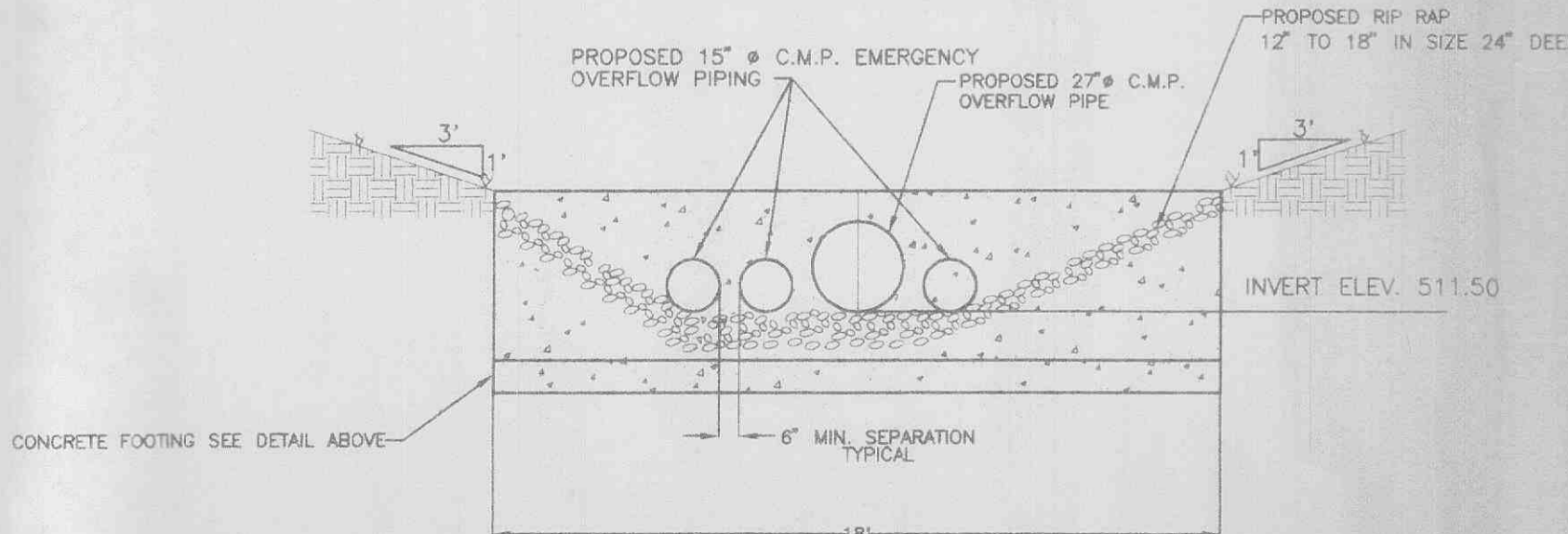
CONCRETE HEADWALL DETAIL

NOTE: PROPOSED OVERFLOW PIPING TO BE GROUTED IN PLACE AND CUT FLUSH WITH CONCRETE HEADWALL.



NOTE: PROPOSED RIP RAP TO BE 12" TO 24" STONES PLACED IN A MANNER TO PREVENT SCOURING OF ADJACENT SLOPES AND TO DISSIPATE WATER.

PLAN VIEW



CONCRETE ANCHOR DETAIL
NO SCALE

DETAIL SHEET FOR SCHNUCK'S MARKETS O'FALLON, MISSOURI

TELEPHONE (314) 239-4751

BUESCHER FRANKENBERG ASSOCIATES INC.

10334 ELM STREET WASHINGTON, MISSOURI 63090

DATE MARCH 1996

PROJ. NO. 95-2145

SCALE AS NOTED

DWG. NO. 16 OF 16

Two working days prior to the start of any excavation on this site, contractor shall call 1-800-292-8889 for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (i.e. Trenching, Blasting, etc.).

2	UPDATE DETAIL #38 ADDED	R.K.S.	5/23/98	CHK'D	
1	UPDATE DETAIL #34	R.K.S.	4/18/98	APP'D	
NO.	REVISION	BY	DATE	APP'D	