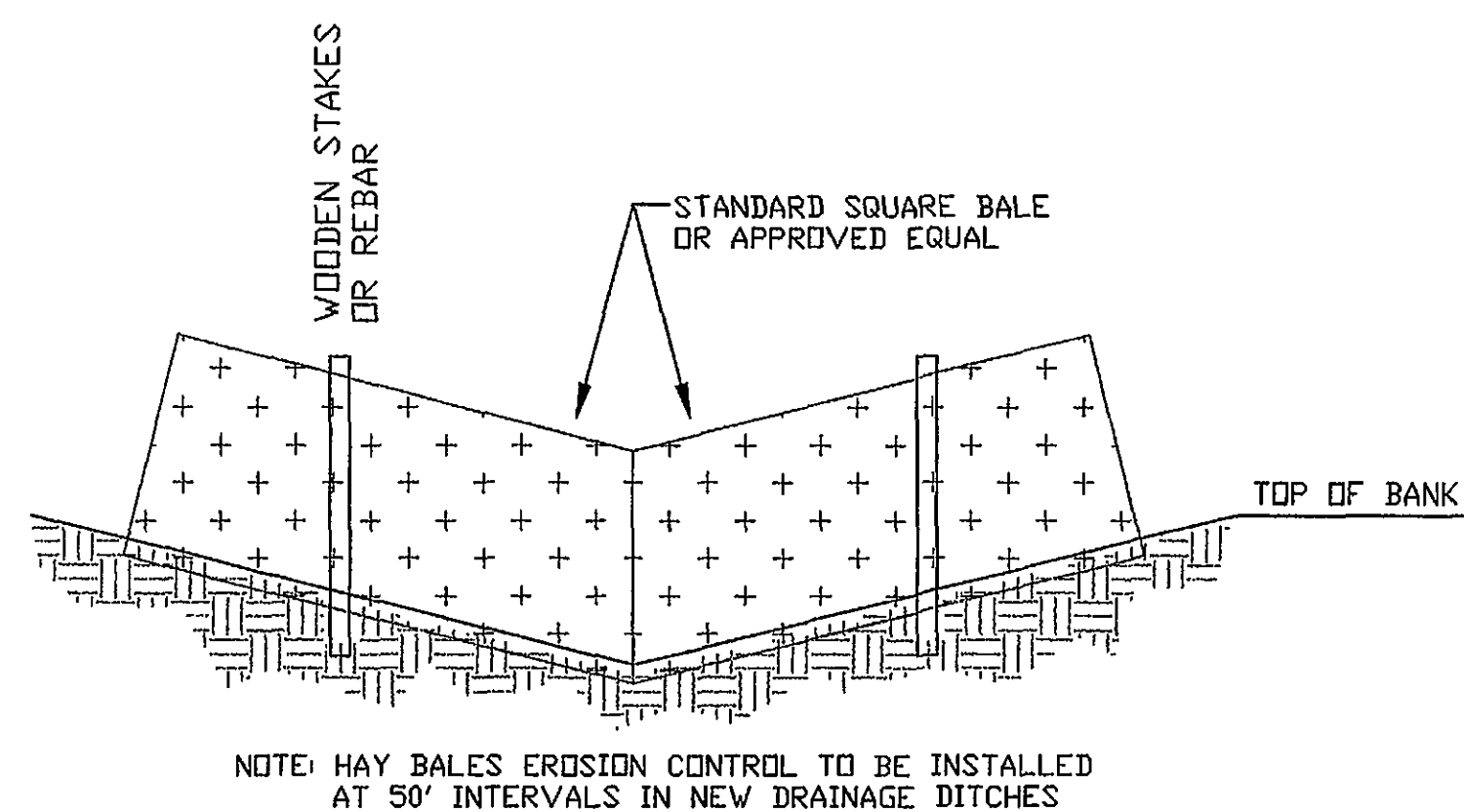
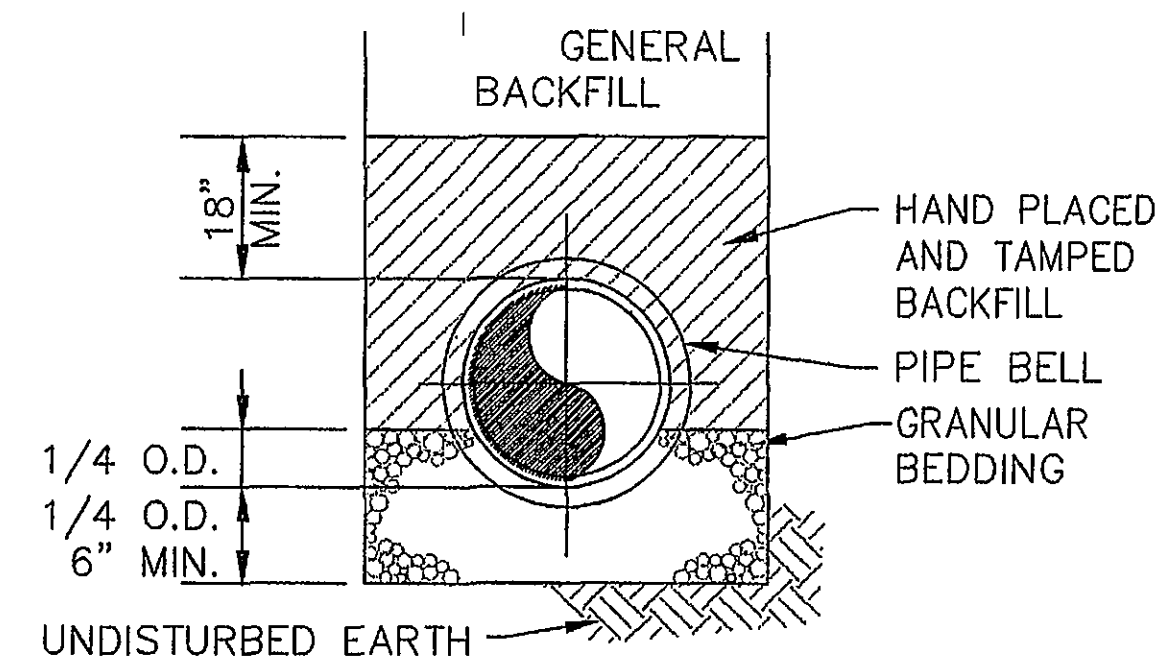
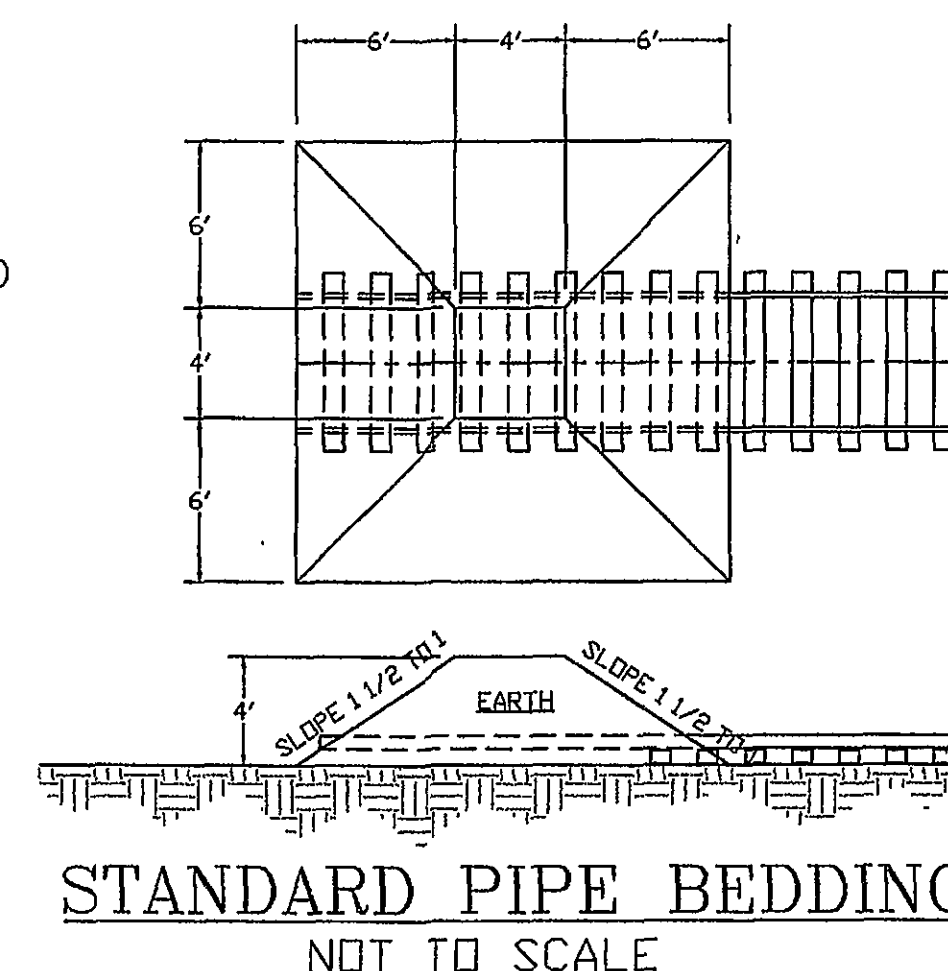




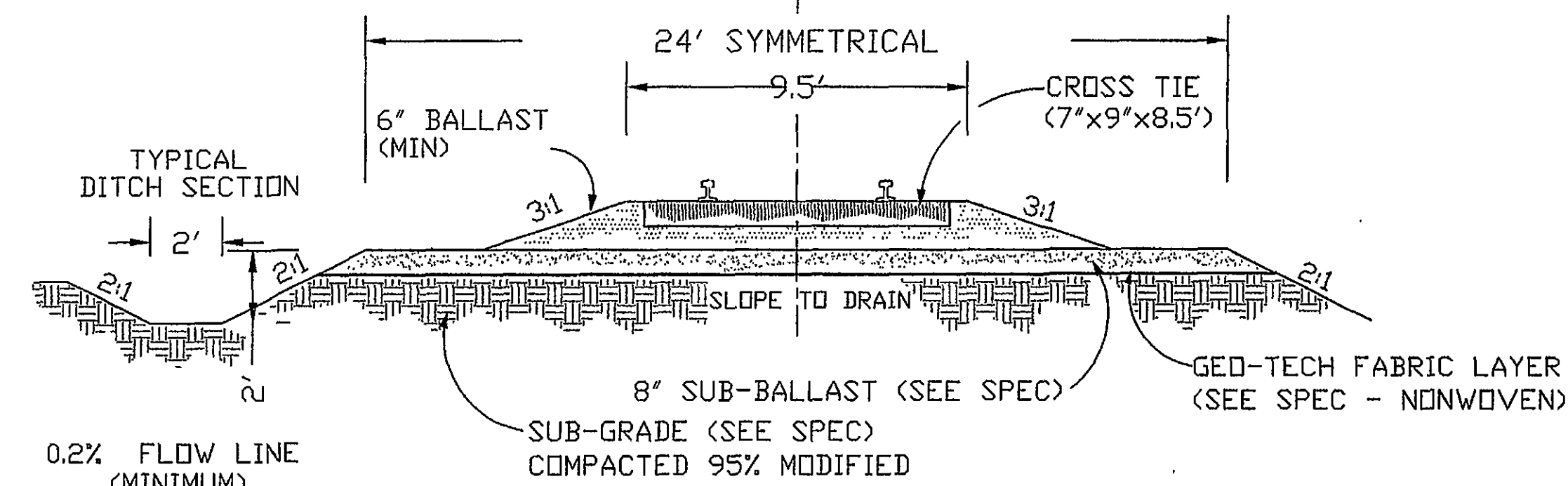
HAY-BALE CHECKDAM
NOT TO SCALE



STANDARD PIPE BEDDING
NOT TO SCALE

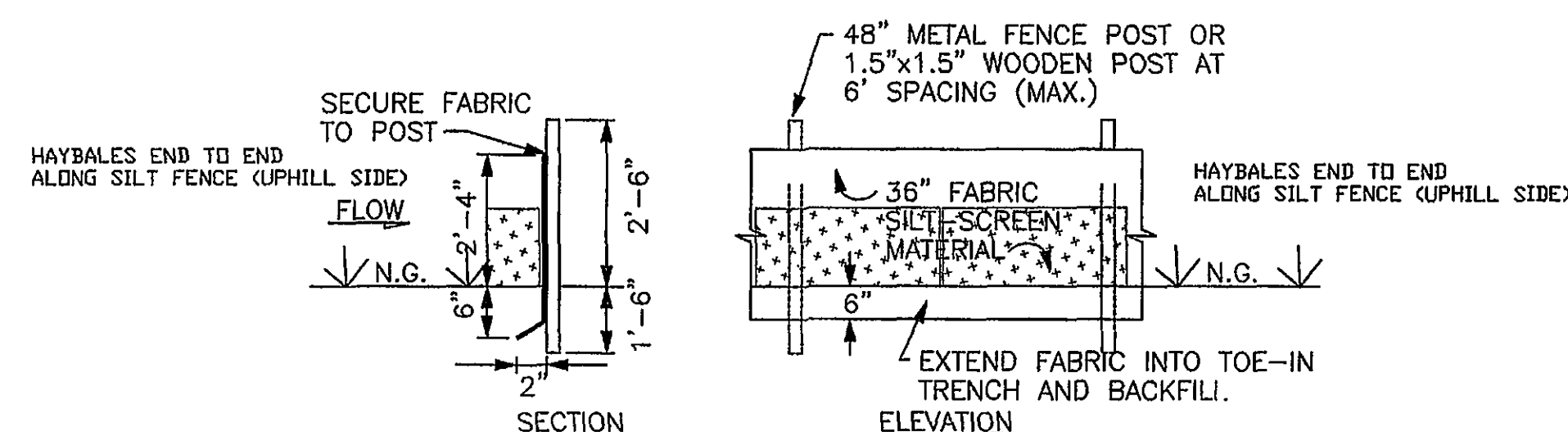


STANDARD PIPE BEDDING
NOT TO SCALE



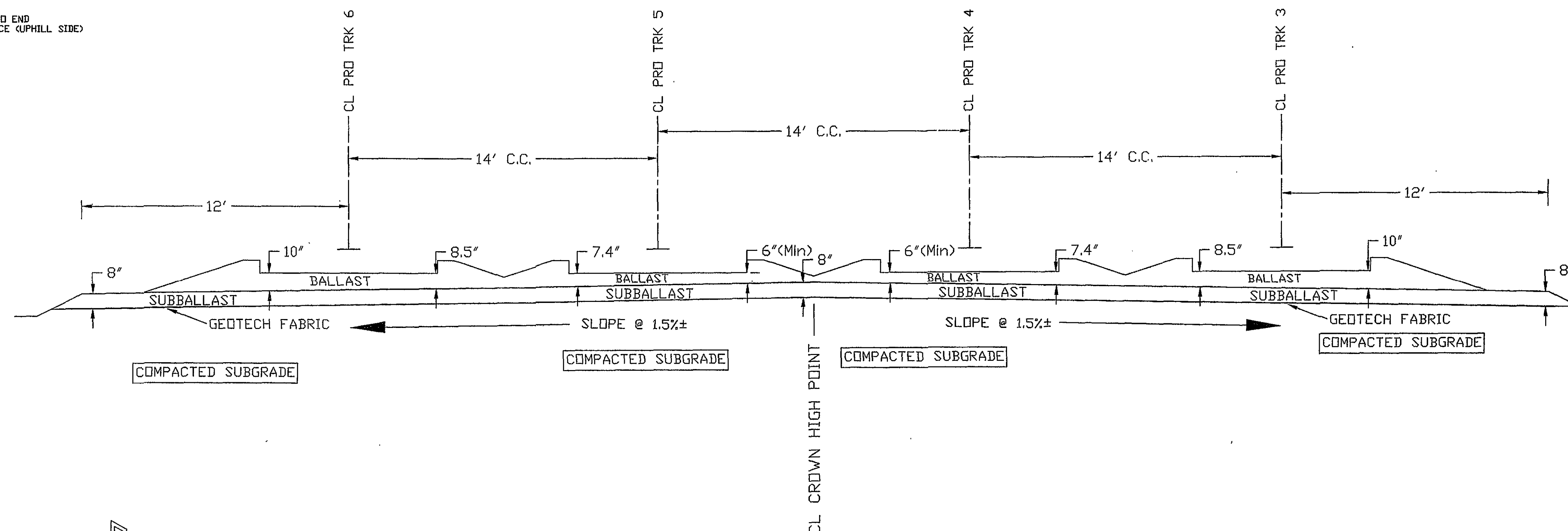
TYPICAL RAILWAY SECTION
NOT TO SCALE

- NOTES:
1. CONTRACTOR SHALL CROWN SUB-BALLAST AS DIRECTED.
 2. DETAIL DIMENSIONS AS SHOWN ARE MINIMUM REQUIREMENTS.
 3. CONTRACTOR SHALL CONSTRUCT "V" BOTTOM OR "FLAT" BOTTOM DITCHES AS DIRECTED.

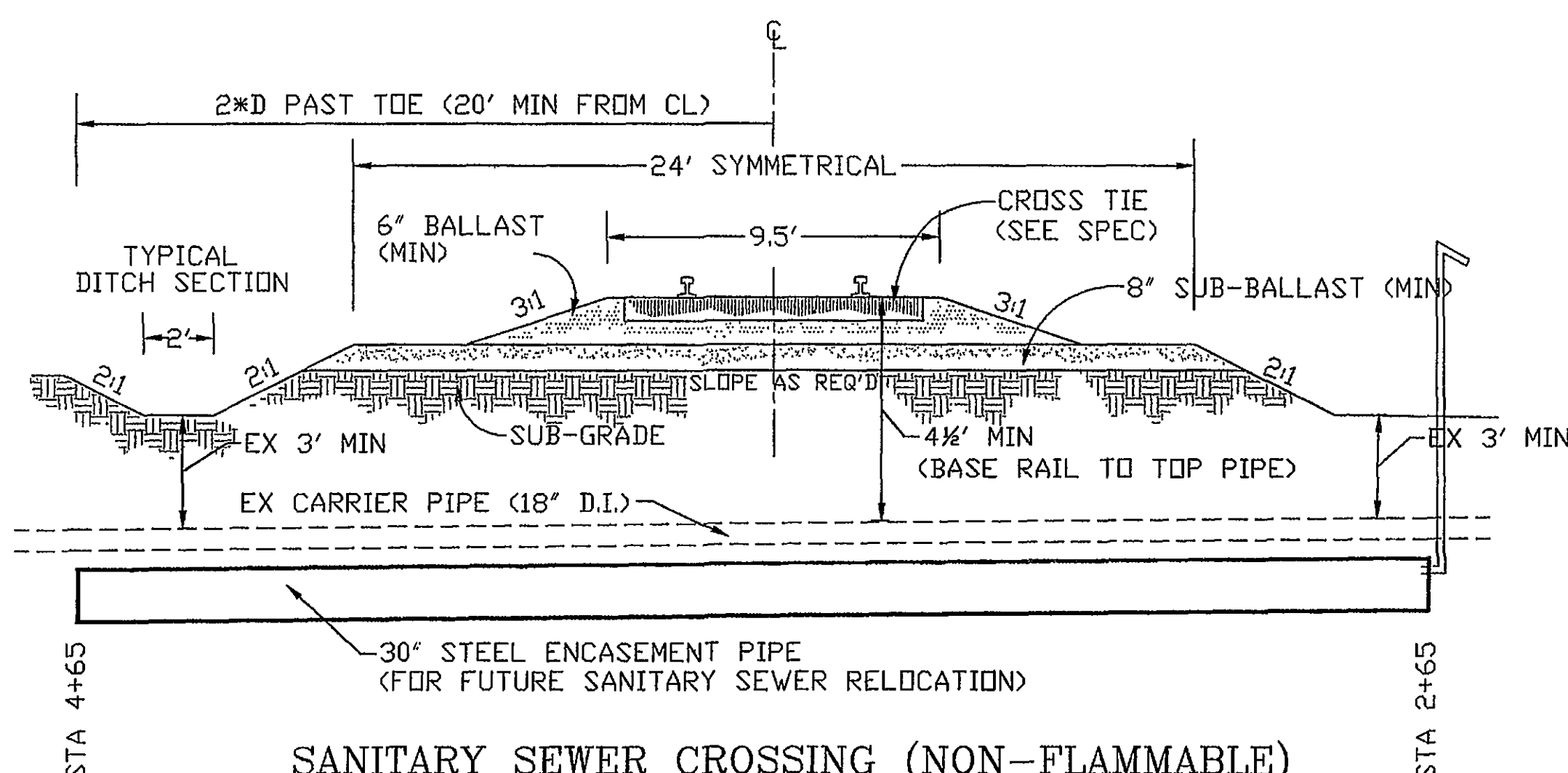


HAYBALE/SILT FENCE
NOT TO SCALE

- NOTE: SILT FENCING TO BE INSTALLED ALONG THE TOE OF ALL DISTURBED SLOPES AND MAINTAINED DURING & AFTER CONSTRUCTION UNTIL VEGETATION HAS MATURED.

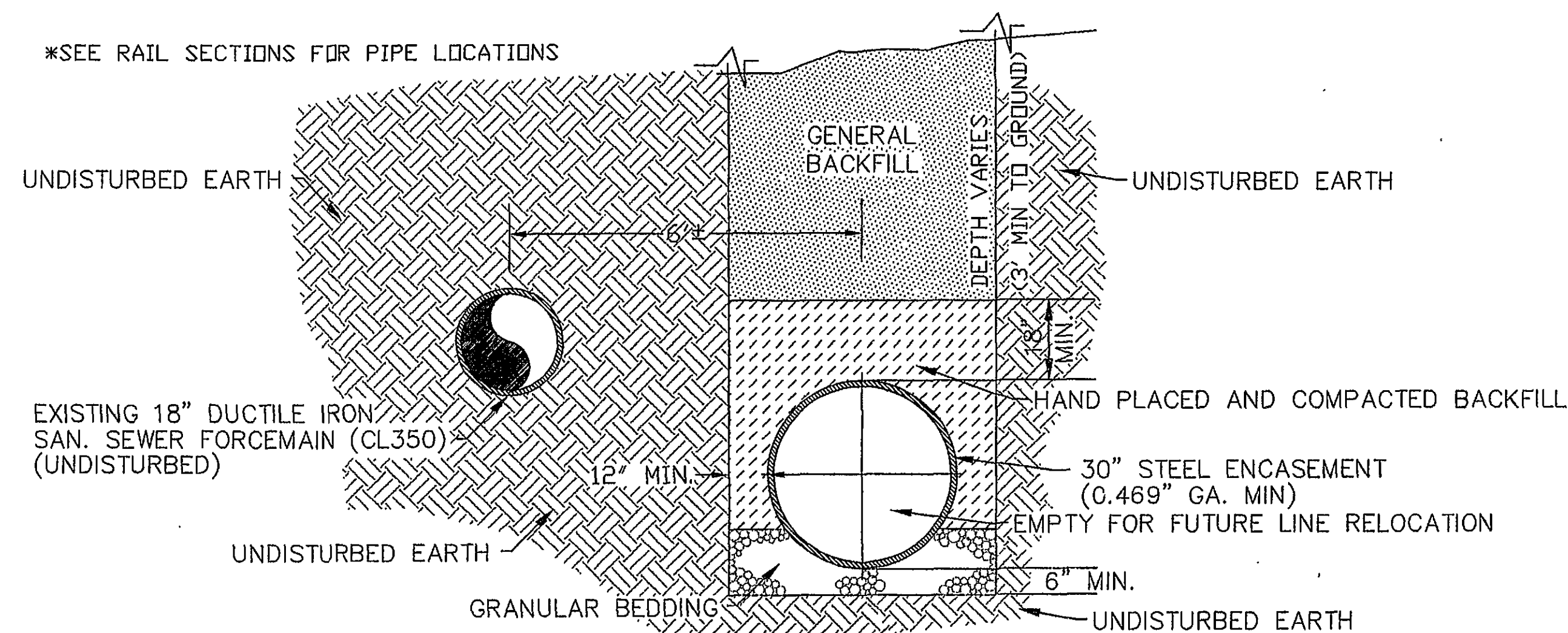


TRACKS 3-6 TYPICAL SECTION DETAIL
NOT TO SCALE



SANITARY SEWER CROSSING (NON-FLAMMABLE)
NOT TO SCALE

- NOTES:
1. CASING GAUGE SHALL BE AS SHOWN IN A.R.E.M.A. 5.3.4.3 (30" Non-coated - 0.469" Min.) CASING PIPE SHALL BE STEEL (SMYS=35 ksi). CASING JOINTS SHALL BE WELDED COMPLETELY TO PREVENT INFILTRATION.
 2. DETAIL DIMENSIONS AS SHOWN ARE MINIMUM REQUIREMENTS.
 3. CONTRACTOR SHALL REFER TO NORFOLK-SOUTHERN SPECIFICATIONS AND A.R.E.M.A. CH.1, PART 5 FOR ADDITIONAL GUIDELINES.
 4. CASING SHALL BE CAPPED WITH RUBBER END SEALS TO PREVENT INFILTRATION AND HAVE A VENT INSTALLED ON THE HIGH END. VENTS SHALL BE 2' GALVANIZED PIPE EXTENDING 4' ABOVE GROUND.
 5. NEW 30" CASING PIPE SHALL BE INSTALLED 6"± HORIZONTALLY FROM EXISTING 18" DI SEWER AND A MINIMUM OF 18" BELOW THE EXISTING PIPE. NO CARRIER PIPE WILL BE INSTALLED INTO THE CASING PIPE ON THIS PROJECT.



30" STEEL ENCASEMENT PIPE TRENCH DETAIL
NOT TO SCALE

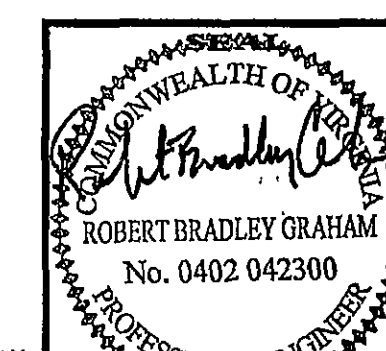
REVISED ON:		
NO.	DATE OF REVISION	BY
1	05 JUL 04	CCF
2	29 NOV 06	CCF

W. WILLIAM GRAHAM JR., INC.
CONSULTING ENGINEERS
LITTLE ROCK, ARKANSAS

MENNEL MILLING FACILITY
Proposed Rail Spur Facility - Roanoke Co., VA
Standard Rail Construction Details

30" STEEL ENCASEMENT
AS - BUILT 05/23/2007

05 DEC 06 REV-D



WVWA ID# 6QTJLW

12/16/01

C17
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