

TYPICAL SECTIONS

145 mm BITUMINOUS CONCRETE PAVEMENT
 (PLACED IN TWO (2) LIFTS CONSISTING OF 50 mm TYPE III AND 95 mm TYPE I)
 450 mm SUBBASE OF CRUSHED STONE
 300 mm SAND BORROW
 SHOULDERS: 50 mm BITUMINOUS CONCRETE PAVEMENT

TACK COAT-EMULSIFIED ASPHALT IS TO BE APPLIED AT A RATE OF 0.07 L/m² BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

BITUMINOUS CONCRETE PAVEMENT REQUIRES THE USE OF PERFORMANCE GRADED ASPHALT, 58-28.

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	5 mm
SUBBASE	30 mm
SAND BORROW	30 mm

GENERAL NOTES SEEDING FORMULA

RURAL AREAS				
% WT.	kg/ha	NAME	PUR.%	GERM.%
5.0	4	RED TOP	95	90
37.5	26	CREeping RED FESCUE	98	85
15.0	10	BIRDSFOOT TREFOIL (VAR. EMPIRE)	98	85
37.5	26	TALL FESCUE	95	90
5.0	4	ANNUAL RYEGRASS	95	85
100.0	70			

URBAN AREAS				
% WT.	kg/ha	NAME	PUR.%	GERM.%
42.5	38	CREeping RED FESCUE (VAR. PENNLAWN)	98	85
42.5	38	KENTUCKY BLUEGRASS (COMMON)	85	85
10.0	9	PERENNIAL RYEGRASS (VAR. PENNFINE)	95	90
5.0	5	ANNUAL RYEGRASS	95	85
100.0	90			

THE SEED MIXTURE SHALL NOT HAVE WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE FROM ALL NOXIOUS WEED SEED.

SEED - TO BE APPLIED PER SEEDING FORMULAS DIRECTED BY THE ENGINEER.

FERTILIZER - FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha.

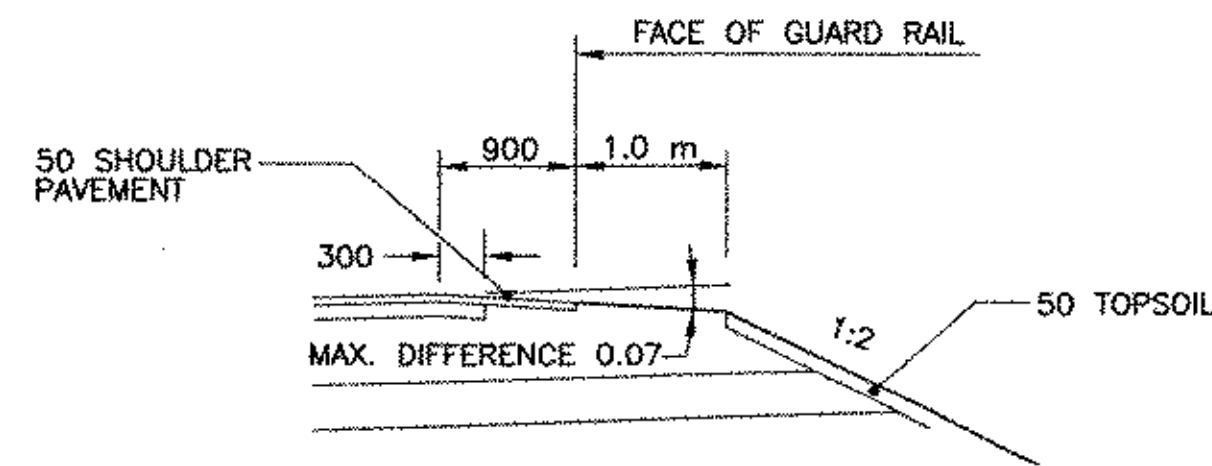
AGRICULTURAL LIMESTONE - TO BE APPLIED AT RATE OF 4500 kg/ha OR AS DIRECTED BY THE ENGINEER.

HAY MULCH - TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha OR AS DIRECTED BY THE ENGINEER.

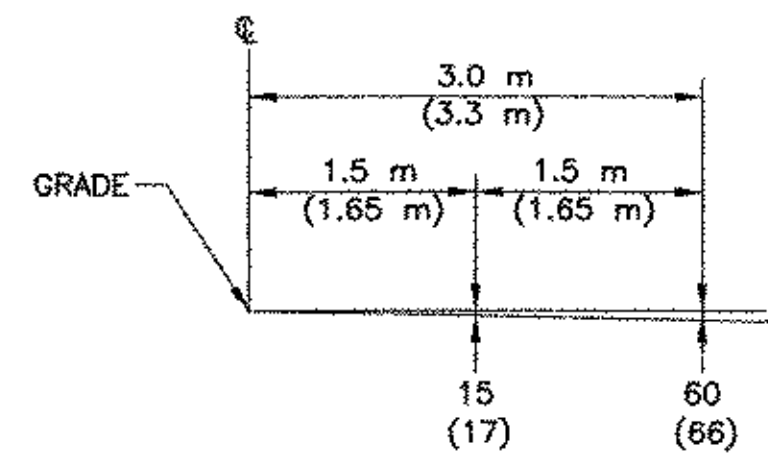
TOPSOIL - TO BE USED WITH SEED, AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS - TO BE PLACED AS DIRECTED BY THE ENGINEER.

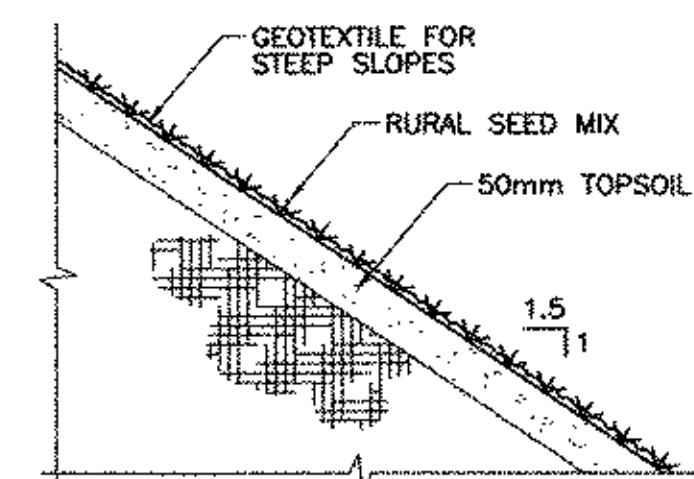
SLOPE ROUNDING - ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M OR AS SHOWN IN THE SECTIONS.



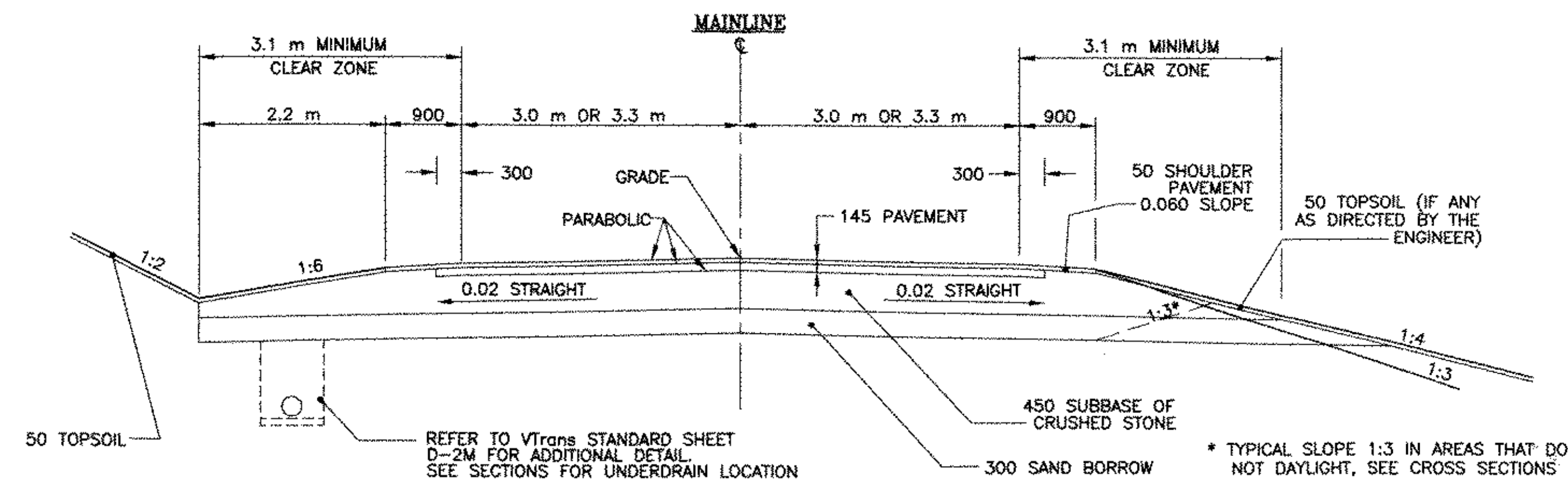
DETAIL OF GUARDRAIL ON HIGH SIDE OF BANKED SECTION
SCALE = 1:50



PARABOLIC DETAIL
SCALE = 1:50

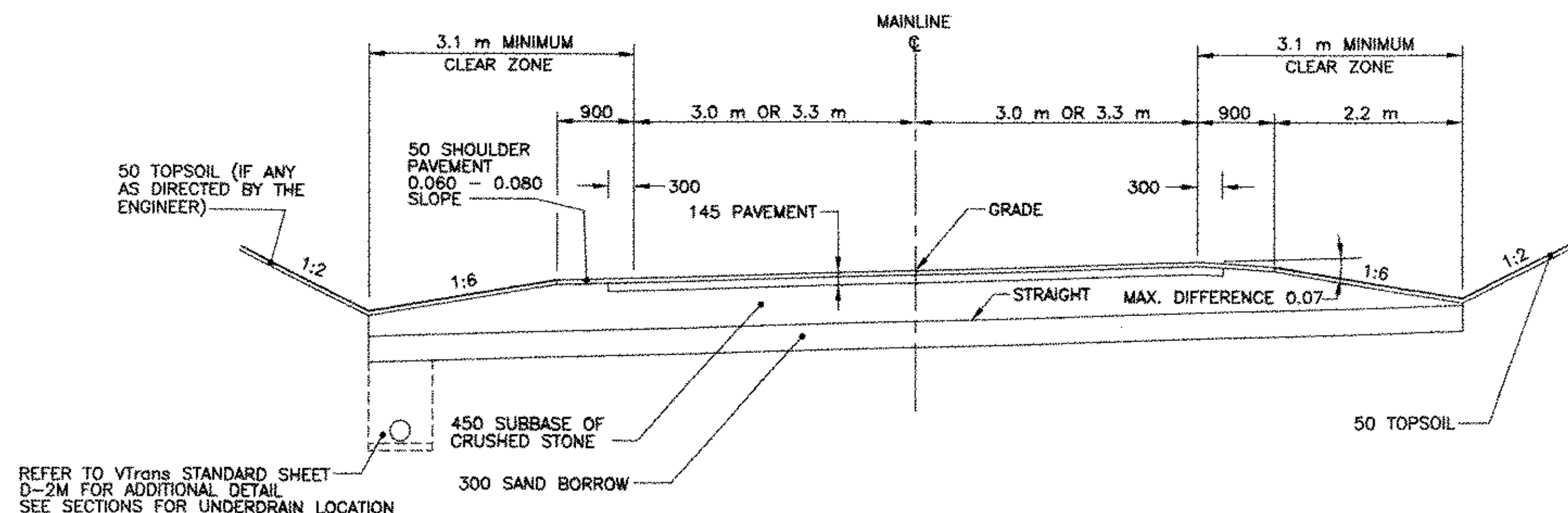


SEE CROSS SECTIONS FOR LOCATION OF 1.5:1 SLOPES.
SLOPE EROSION TREATMENT DETAIL
NOT TO SCALE



NORMAL SECTION

NOTE: FOR SLOPES IN SOLID ROCK EXCAVATION, DRILLING AND BLASTING OF SOLID ROCK SUBGRADE, SEE STANDARD A-61M.



BANKED SECTION

NOTE: 3.0 m LANE USED AT STA. 10+048 - 10+880

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	NAD 1927

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THE LOUIS BERGER GROUP, INC.

TYPICAL SECTIONS	
PROJECT:	PROJECT NO. :
GRAFTON-ROCKINGHAM, ROUTE 121	STP 0126(4)S
DESIGN FILE NAME:	PLOT DATE: 12/08/03
IPARM FILE NAME:	SURVEY DATE:
SURVEYED BY:	DRAWN BY:
SQUAD LEADER:	SHEET: 9 OF 116