

**SEEDING FORMULA
URBAN AREAS**

% MASS	kg/ha	NAME	PUR %	GERM %
42.5	38.0	CREeping RED FESCUE	98	85
10.0	9.0	PERENNIAL RYE GRASS	95	90
42.5	38.0	KENTUCKY BLUE GRASS	85	85
5.0	5.0	ANNUAL RYE GRASS	95	85
100.0	90.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE 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.

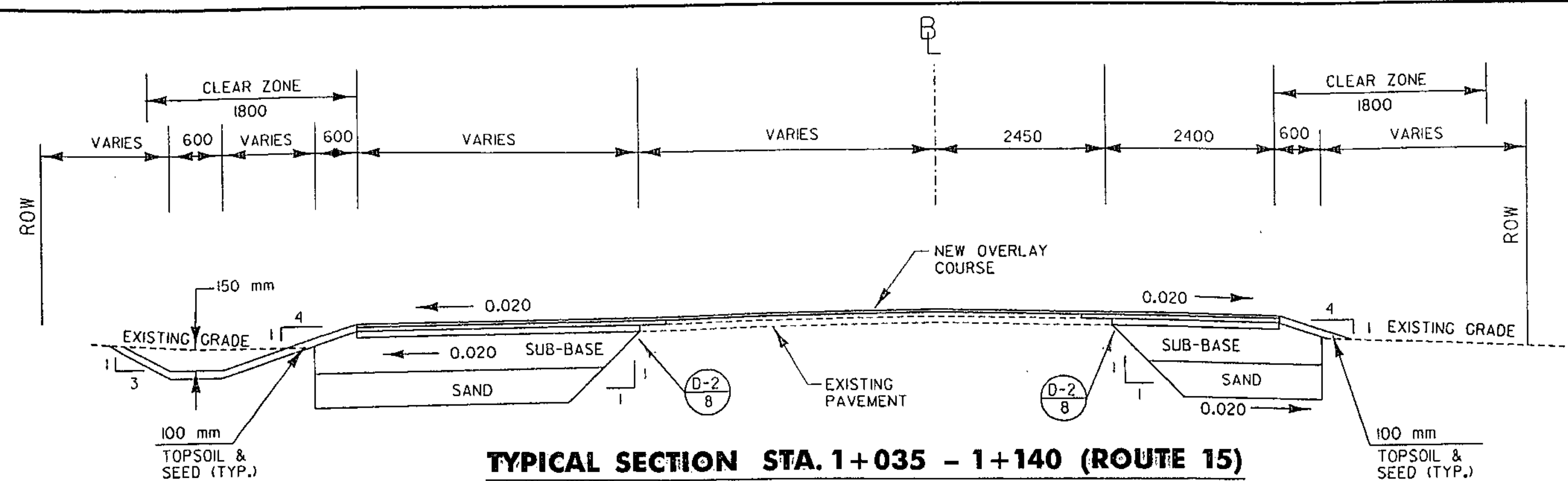
MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.

PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE STANDARD SHEET D-2M.

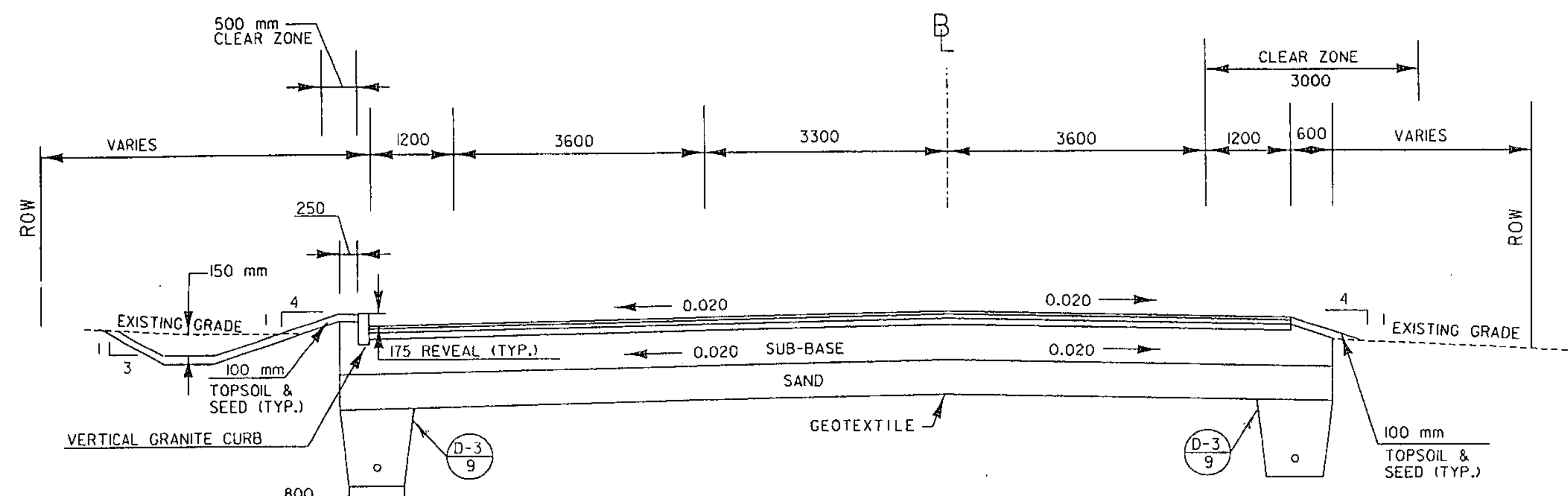
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.07 L/m² BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

Handwritten calculations:
 $90 \text{ kg} \left(\frac{2.2 \text{ lb}}{10000} \right) \left(\frac{0.3078 \text{ m}^2}{\text{acre}} \right)^2$
 $\left(\frac{43560 \text{ m}^2}{\text{acre}} \right) = 80.1 \text{ lb/acre}$
 $\frac{80.1}{90} = \frac{x}{560} \Rightarrow x = 498.6 \text{ lb/acre}$
 $\frac{80.1}{90} = \frac{x}{7500} \Rightarrow x = 660.9 \text{ lb/acre}$



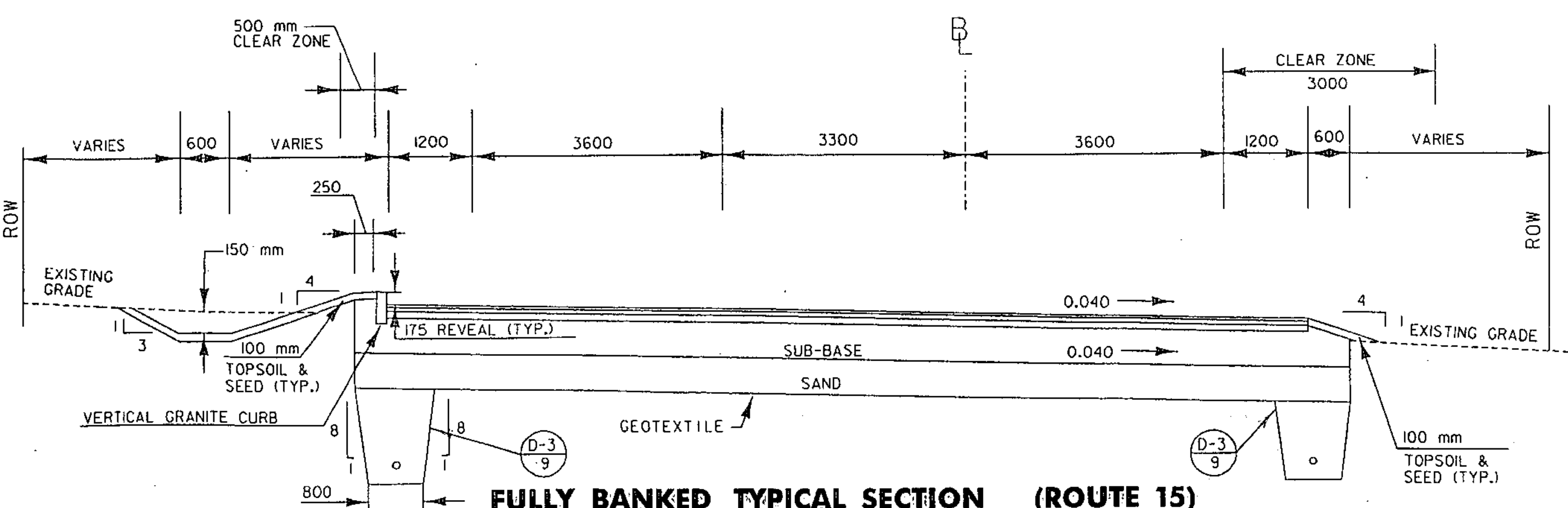
TYPICAL SECTION STA. 1+035 - 1+140 (ROUTE 15)

NTS



TYPICAL SECTION STA. 1+140 - 1+223.7 (ROUTE 15)

NTS * SEE SUPERELEVATION DIAGRAM ON SHEET 22 FOR PAVEMENT SLOPES IN SUPERELEVATION TRANSITION AREAS



**FULLY BANKED TYPICAL SECTION (ROUTE 15)
STA. 1+223.7 - 1+300.1**

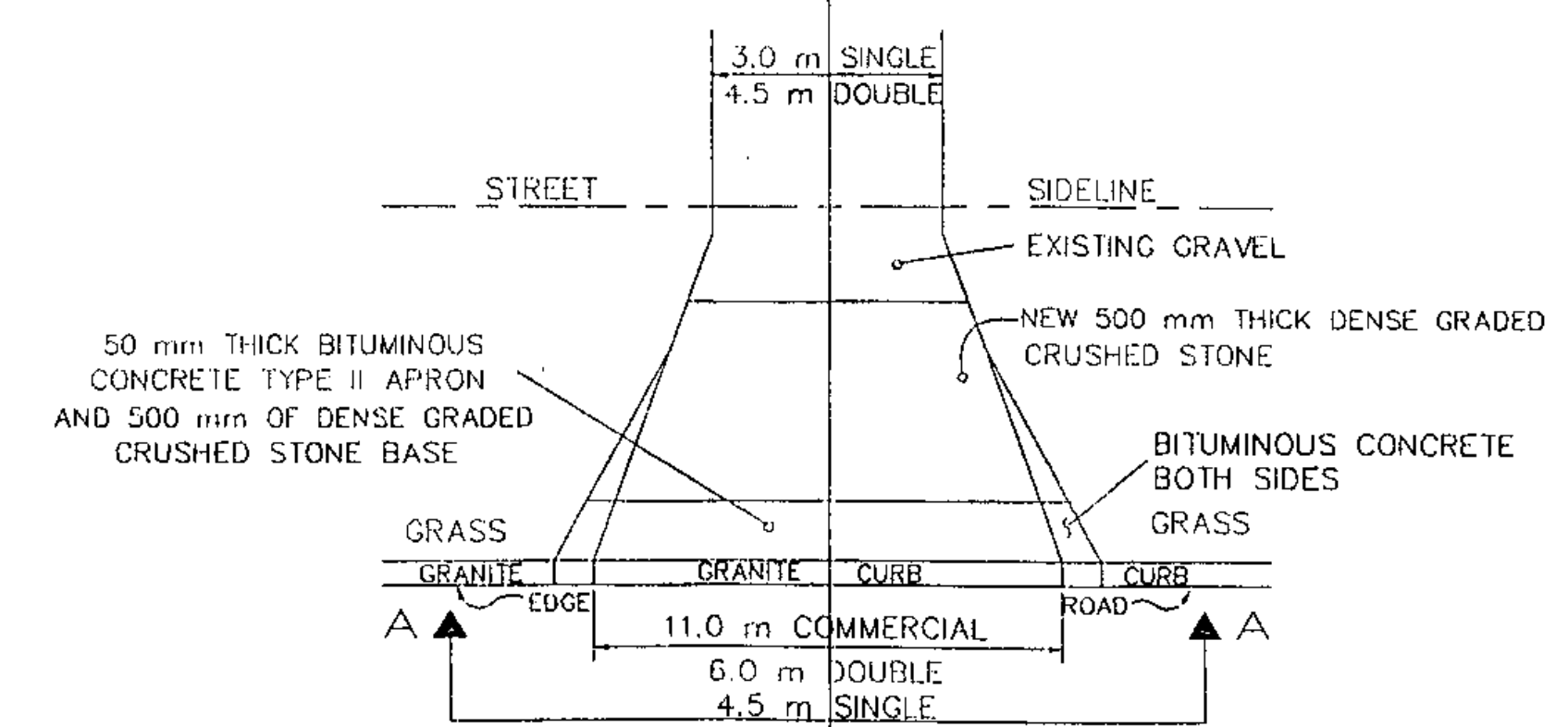
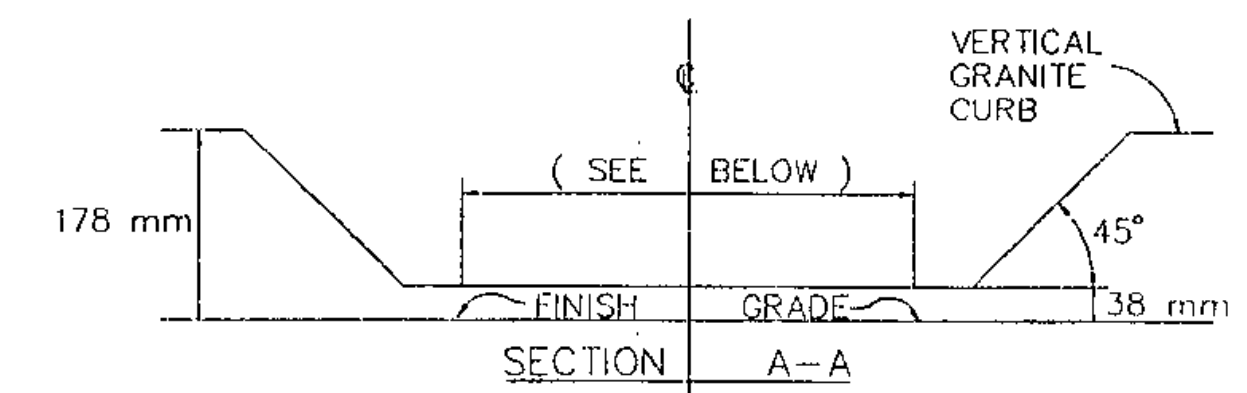
NTS * SEE SUPERELEVATION DIAGRAM ON SHEET 22

ROUTE 15

WEARING COURSE:	45 mm TYPE III-S (PLACED IN ONE LIFT)
BINDER COURSE:	70 mm TYPE II-S (PLACED IN ONE LIFT)
BASE COURSE:	90 mm TYPE I-S (PLACED IN ONE LIFT)
SUBBASE MATERIAL:	500 mm DENSE GRADED CRUSHED STONE (704.06)
SAND BORROW:	500 mm

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

1. BITUMINOUS CONCRETE PAVEMENT SHALL BE 75 BLOW MARSHALL MIX AND PERFORMANCE GRADED BINDER SHALL BE PG 64-28



RESIDENTIAL GRAVEL DRIVEWAY CURB CUT

NTS

NOTE: ALL DIMENSIONS IN MILLIMETERS (mm) EXCEPT WHERE NOTED

TYPICAL SECTIONS	PROJECT NAME:	ESSEX
	PROJECT NUMBER:	STP 030-(117)S
	PLOT FILE NAME:	zstp030-(117)sfrm.dgn
	L&D PROJECT NUMBER:	00-074
	DESIGNED BY:	LAMOUREUX & DICKINSON
	CHECKED BY:	RJD
		CONSULTING ENGINEERS, INC. SHEET 7 OF 42