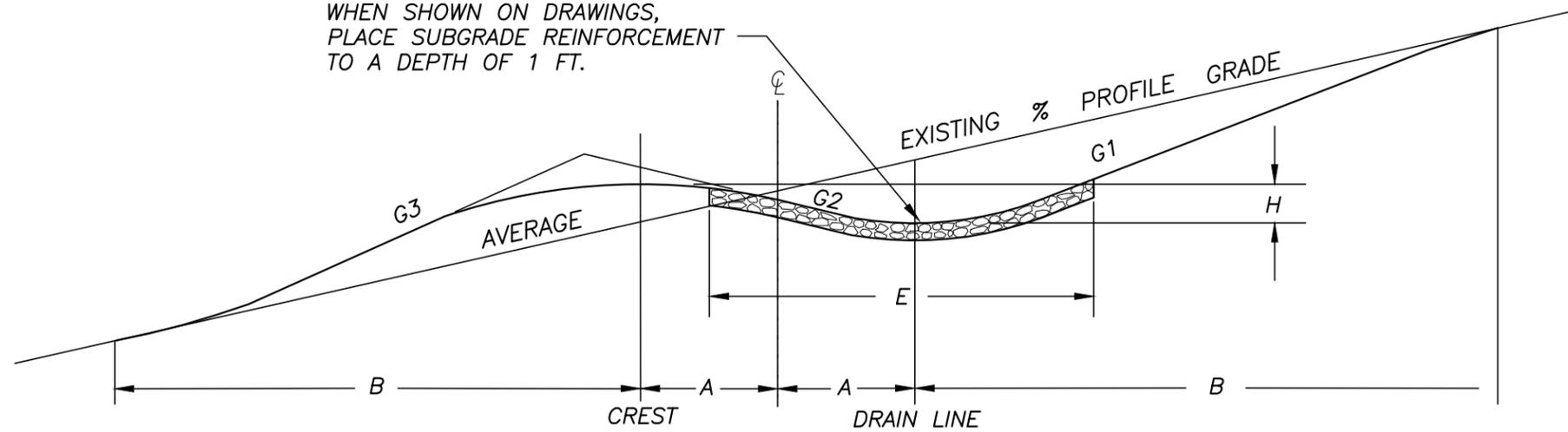


WHEN SHOWN ON DRAWINGS,
PLACE SUBGRADE REINFORCEMENT
TO A DEPTH OF 1 FT.



% PROFILE GRADE	CONST. GRADE			DEPTH (H)	REINFORCEMENT	
	G1	G2	G3		LENGTH (E)	CUBIC YARDS
0 TO 4	-7	2	-6	0.6'	20'	12
5 TO 6	-10	2	-9	0.6'	20'	12
7 TO 8	-13	2	-12	0.5'	20'	12
9 TO 10	-16	2	-15	0.5'	30'	18
OVER 10 % NOT RECOMMENDED						

PROFILE VIEW

% PROFILE GRADE	LENGTH		DEPTH (H)	
	A	B	OUTSIDE EDGE	INSIDE EDGE
0 TO 4	6'	10'	1.5'	0.8'
5 TO 8	6'	10'	1.5'	0.8'
9 TO 12	6'	12'	1.5	0.8'
13 TO 16	7'	15'	1.0'	0.8'
17 & OVER	7'	20'	1.0'	0.8'

SIEVE SIZE	% PASSING
12"	100%
2"	20-80%
3/4"	0-40%
# 200	0-10%

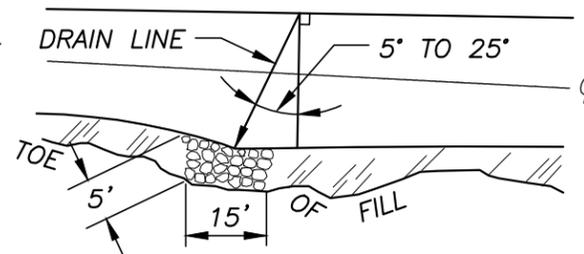
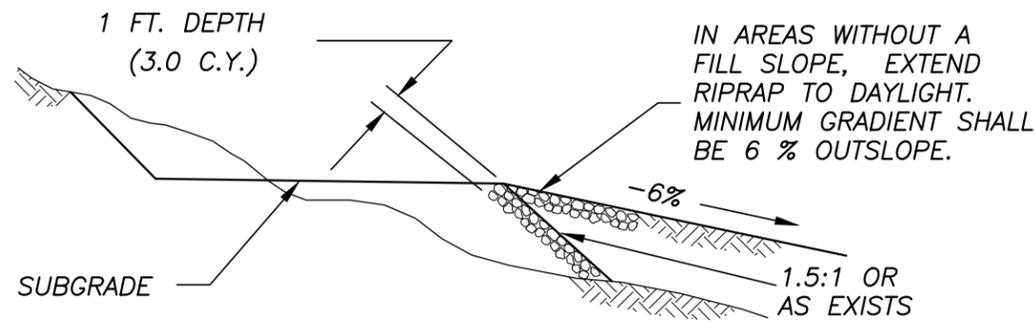
ROLLING DIP CONSTRUCTION NOTES:

1. THE CROSS SLOPE OF THE ROADBED SHALL BE MAINTAINED THROUGH THE DIP.
2. THE DRAIN LINE SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE ROADBED.
3. PLACE CLASS II OUTLET RIPRAP WHEN SHOWN ON THE DRAWINGS. REFER TO OUTLET RIPRAP DETAIL BELOW.
4. FOR DIPS ON AGGREGATE SURFACED ROADS, REDUCE (H) DEPTH BY 0.2 FT.
5. WATERBAR AND DIP CONSTRUCTION TOLERANCES SHALL BE IN ACCORDANCE FP-03 SUPPLEMENTAL SPECIFICATION 204.13(d); TOLERANCE CLASS A.
6. SUBGRADE REINFORCEMENT MATERIAL SHALL BE CONSIDERED INCIDENTAL TO DIP CONSTRUCTION.

WATERBAR CONSTRUCTION NOTES:

1. WATERBARS ARE USUALLY CONSTRUCTED BY ANGLE DOZERS. WATERBARS SHALL HAVE A CLEAN OUTLET AND BE CONSTRUCTED SO THEY WILL NOT FAIL THROUGH ALL WEATHER USE.
2. THE WATERBAR DRAIN LINE SHALL BE SKEWED 5° TO 25°.
3. WATERBARS SHALL BE CONSTRUCTED SO THAT DRAINLINE EXCAVATION IS APPROXIMATELY 6" INTO SOLID SOIL AND THE TOP OF COMPACTED WATERBAR IS 12" ABOVE THE DRAINLINE.
4. THE TOTAL LENGTH OF THE WATERBAR SHALL NOT BE LESS THAN SIXTEEN FEET (16').
5. CROSS SLOPE OF THE DRAIN LINE SHALL BE EQUIVALENT TO TO THE CROSS SLOPE OF THE ROAD PLUS TWO PERCENT (2%).

OUTLET RIPRAP



CROSS SECTION VIEW

PLAN VIEW