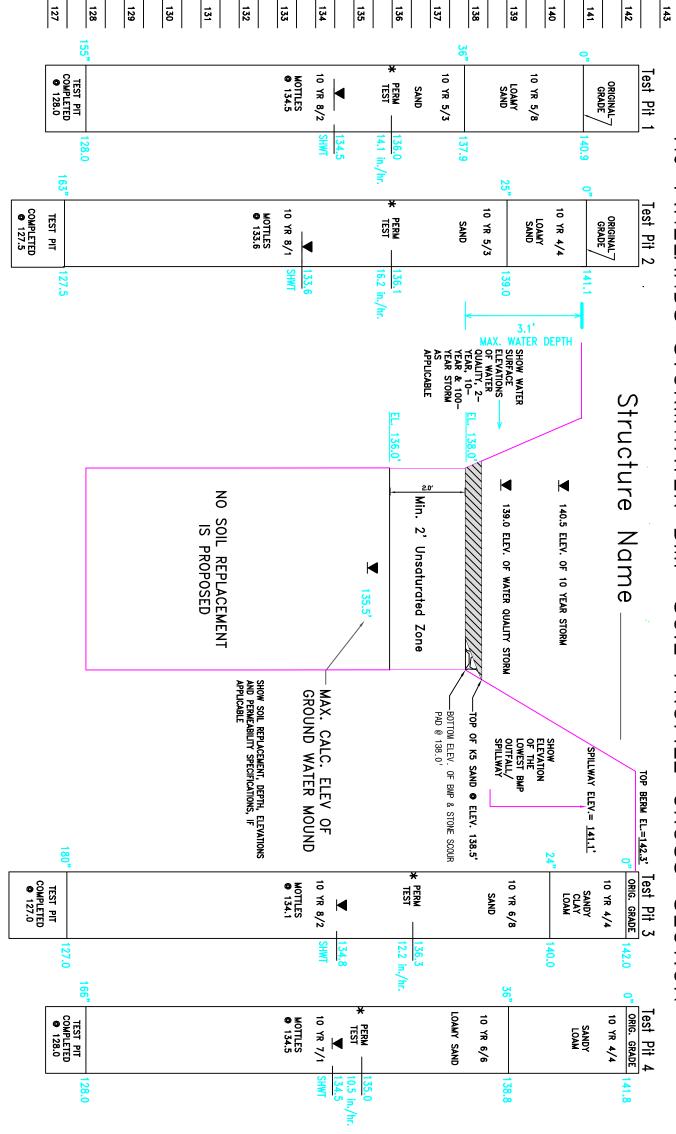
BMP DESIGN EXAMPLE

Z PINELANDS STORMWATER BMP-SOIL PROFILE CROSS-SECTION



- * SHOW ORIGINAL GROUND SURFACE ELEVATION AT EACH TEST PIT LOCATION.
- * SHOW DEPTH AND ELEVATION OF EACH HORIZON BOUNDARY IN TEST PIT LOGS.
- * SHOW TEXTURE & MUNSEL COLOR(S) OF EACH HORIZON IN TEST PIT LOGS.
- * SHOW ELEVATION OF SEASONAL HIGH WATER LEVEL IN EACH TEST PIT LOG.
- * SHOW ELEVATION AND PERMEABILITY RESULTS (in./hr.) FOR EACH PERMEABILITY TEST * SHOW TEST PIT DEPTHS ARE MIN. 8' BELOW BASIN OR TWO TIMES (2x) MAX. WATER DEPTH
- * SHOW MAX. WATER DEPTH IN BMP (BETWEEN BOTTOM OF BMP AND LOWEST SPILLWAY/OUTFALL ELEV.)
- SHOW PERM. TESTS IN MOST RESTRICTIVE SOIL TO REMAIN BELOW THE BMP INVERT (4'OR 2X MAX. WATER DEPTH)

- 2) MAXIMUM CALC. GROUND WATER MOUND ELEV. = 135.51) HIGHEST SHWT ELEVATION = 134.8
- 3) LOWEST ELEVATION (INVERT) OF BMP BOTTOM = 138.0
- 4) DISTANCE BETWEEN BOTTOM OF BMP AND SHWT = 3.2' & MAX GW MOUND
- 5) SOIL REPLACEMENT IS NOT PROPOSED
- 6)IF PROPOSED, SOIL REPLACEMENT EXTENDS TO N/A
- 7) ELEV. AND RATES OF OF PERM TESTS: <u>IP-1 TEST @ 136.0' = 14.1 in/hr</u>, <u>IP-2 TEST @ 136.1'= 16.2</u> in/hr. THE TEST IN LOAMY SAND AT ELEV. 135.0 IN TEST PIT 4 CHARACTERIZES THE MOST HYDRAULICALLY RESTRICTIVE SOILS TO REMAIN BELOW THE BMP. <u>in/hr & TP-4 TEST @ 135.0'= 10.5</u> in/hr, TP-3 TEST @136.3' = 12.2
- 8) SOIL LOGS EXTEND A MINIMUM OF 8'
 BELOW THE BMP BOTTOM OR TWO
 TIMES THE MAXIMUM WATER DEPTH IN
 THE BMP:
- a. EIGHT FEET BELOW THE BMP BOTTOM = ELEV. 128.0, OR
- b.TWO TIMES THE MAXIMUM DEPTH OF WATER (Dw) IN THE BMP (AS DEFINED BY THE LOWEST SPILLWAY INVERT ELEV.) = ELEV.129.8°.

THEREFORE THE TEST PITS MUST PENETRATE TO MIN. ELEV. 128.0

DESIGNED BY:	NAME
NJPE No.	GE 0000
DATE	JUNE 18, 2012
IAST REV	NA