

4.0 RESULTS

4.1 Stormwater Management Swale 1

Stormwater Management Swale 1 is the easternmost of the two proposed swales. It begins on the south side of existing S.R. 54 approximately 45.7 m (150.0 ft) west of the intersection of Bayville Road with S.R. 54, and trends in a southwest direction for approximately 201.2 m (660.0 ft) (see Figure 2). The proposed swale location is an open agricultural field, and a ditch, which will be enlarged, already exists in the location (Photographs 1 and 2).

A total of 13 STPs was excavated along the existing ditch within the proposed location of Stormwater Management Swale 1. The excavated STP profiles exhibited two natural strata and some hydrated soils, implying some drainage restrictions (Figure 3). No archaeological remains of any type were identified during the Phase I survey within the proposed Stormwater Management Swale 1 location.

4.2 Stormwater Management Swale 2

Stormwater Management Swale 2 is located west of the Stormwater Management Swale 1 location. Stormwater Management Swale 2 begins on the south side of existing S.R. 54 approximately 128.0 m (420.0 ft) east of the intersection of Laws Point Drive with S.R. 54, and trends in a southwest direction for approximately 420.0 m (1,378.0 ft) (see Figure 2). The proposed swale location is an agricultural field once planted in corn, and a ditch, which will be enlarged, already exists in the location (Photographs 3, 4, and 5).

A total of 28 STPs was excavated along the existing ditch within the proposed location of Stormwater Management Swale 2. The excavated STP profiles exhibited two natural strata and some hydrated soils, implying some drainage restrictions (Figure 4). No archaeological remains of any type were identified during the Phase I survey within the proposed Stormwater Management Swale 2 location.

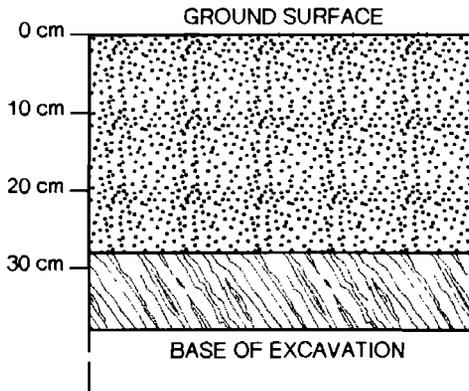


Photograph 1. View of Stormwater Management Swale 1 proposed location, facing west.



Photograph 2. View of Stormwater Management Swale 1 proposed location, facing south.

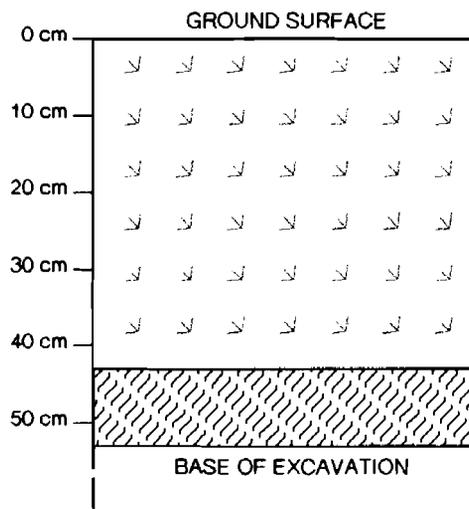
SOIL PROFILE SHOVEL TEST PIT 1-2



Ap 10YR 3/3 Dark brown sandy loam.

Bw 10YR 5/4 Yellowish brown sandy loam.

SOIL PROFILE SHOVEL TEST PIT 1-11



Ap 10YR 3/3 Dark brown loam.

Bw 10YR 5/1 Gray sandy loam, with common
10YR 5/4 Yellowish brown mottles.

DELAWARE DEPARTMENT OF TRANSPORTATION	
S.R. 54 IMPROVEMENTS SOUND CHURCH ROAD TO KEENWICK ROAD BALTIMORE HUNDRED SUSSEX COUNTY	
SOIL PROFILES SHOVEL TEST PITS 1-2 AND 1-11	
FIGURE - 3	SKELLY AND LOY, INC. <small>CONSULTANTS IN ENVIRONMENT - ENERGY ENGINEERING - PLANNING</small>



Photograph 3. View of Stormwater Management Swale 2 proposed location, facing north.

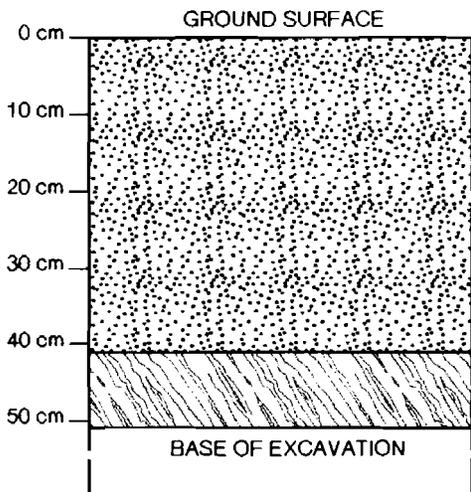


Photograph 4. View of Stormwater Management Swale 2 proposed location, facing north.



Photograph 5. View of Stormwater Management Swale 2 proposed location along tree line, facing south.

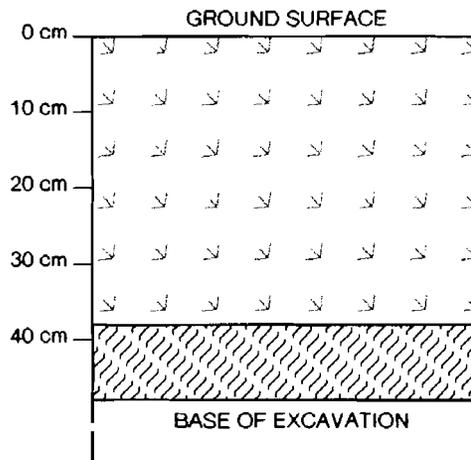
SOIL PROFILE SHOVEL TEST PIT 2-5



Ap 10YR 3/2 Very dark grayish brown sandy loam.

Bw 10YR 5/4 Yellowish brown sandy loam.

SOIL PROFILE SHOVEL TEST PIT 2-27



Ap 10YR 3/2 Very dark grayish brown sandy loam.

Bw 10YR 5/1 Gray sandy loam.

DELAWARE DEPARTMENT OF TRANSPORTATION	
S.R. 54 IMPROVEMENTS SOUND CHURCH ROAD TO KEENWICK ROAD BALTIMORE HUNDRED SUSSEX COUNTY	
SOIL PROFILES SHOVEL TEST PITS 2-5 AND 2-27	
FIGURE - 4	SKELLY AND LOY, INC. CONSULTANTS IN ENVIRONMENT - ENERGY ENGINEERING - PLANNING