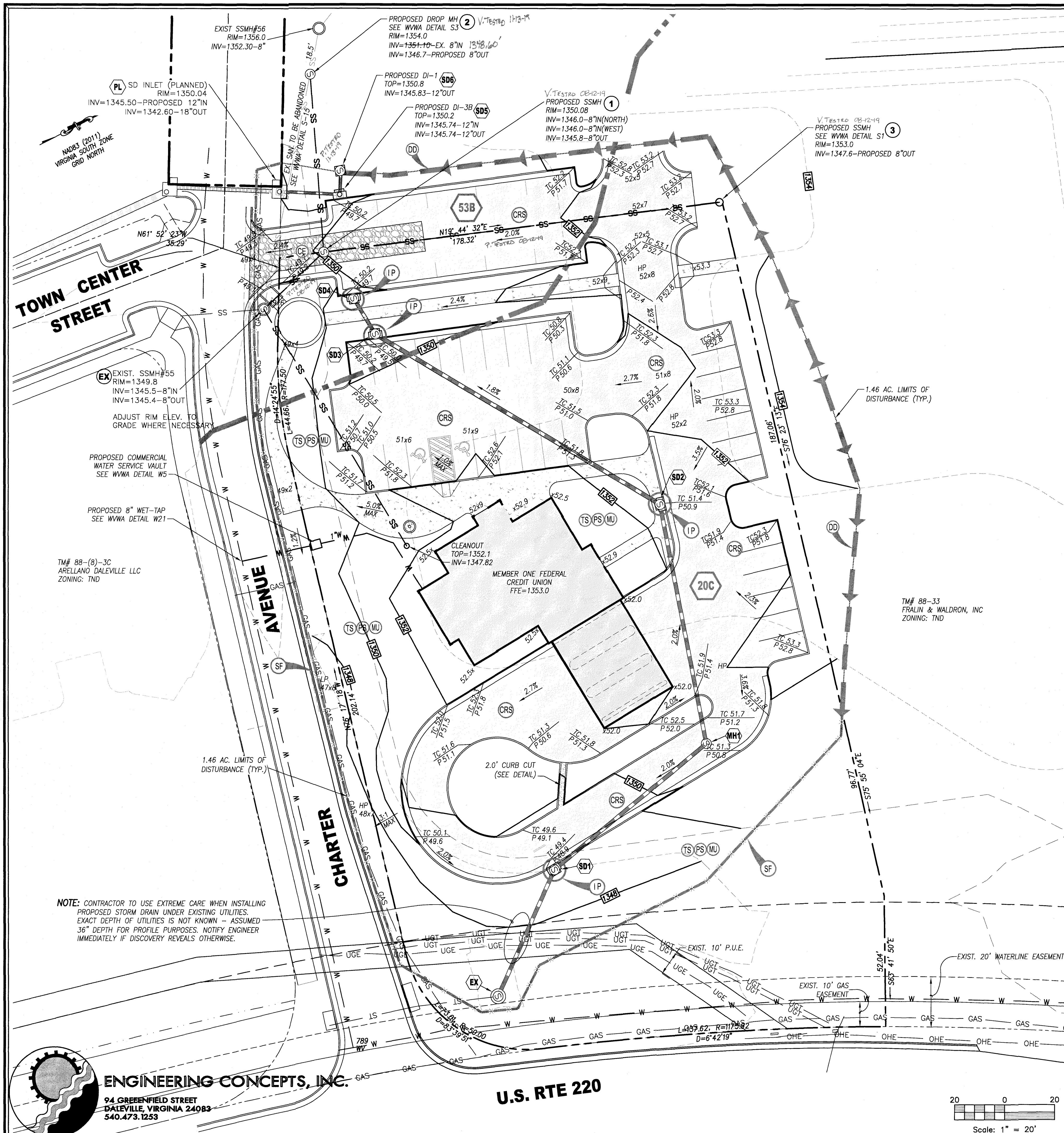




Botetourt County, Virginia

20C—Frederick loam, 7 to 15 percent slopes

Map Unit Setting

- National map unit symbol: kT3q
- Elevation: 900 to 2,600 feet
- Mean annual precipitation: 30 to 45 inches
- Mean annual air temperature: 50 to 57 degrees F
- Frost-free period: 153 to 196 days
- Farmland classification: Farmland of statewide importance

Map Unit Composition

- Frederick and similar soils: 90 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Frederick

Setting

- Landform: Hills
- Landform position (two-dimensional): Summit, shoulder, backslope
- Landform position (three-dimensional): Side slope, nose slope, interfluvium
- Down-slope shape: Convex
- Across-slope shape: Convex
- Parent material: Residuum weathered from limestone

Typical profile

- H1 - 0 to 11 inches: loam
- H2 - 11 to 29 inches: clay
- H3 - 29 to 55 inches: clay
- H4 - 55 to 65 inches: clay

Properties and qualities

- Slope: 7 to 15 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Well drained
- Runoff class: Medium
- Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Available water storage in profile: High (about 9.3 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 3e
- Hydrologic Soil Group: B

53B—Timberville silt loam, 0 to 7 percent slopes, occasionally flooded

Map Unit Setting

- National map unit symbol: kT5y
- Elevation: 1,400 to 3,600 feet
- Mean annual precipitation: 30 to 45 inches
- Mean annual air temperature: 50 to 57 degrees F
- Frost-free period: 153 to 196 days
- Farmland classification: All areas are prime farmland

Map Unit Composition

- Timberville and similar soils: 80 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Timberville

Setting

- Landform: Drainageways
- Landform position (two-dimensional): Footslope
- Landform position (three-dimensional): Base slope
- Down-slope shape: Linear
- Across-slope shape: Concave
- Parent material: Local alluvium and/or colluvium derived from limestone and shale

Typical profile

- H1 - 0 to 11 inches: silt loam
- H2 - 11 to 43 inches: silty clay loam
- H3 - 43 to 65 inches: clay

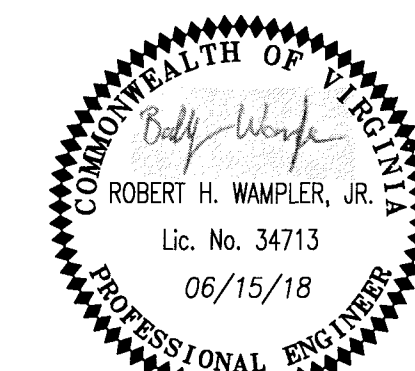
Properties and qualities

- Slope: 0 to 7 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Well drained
- Runoff class: Medium
- Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
- Depth to water table: More than 80 inches
- Frequency of flooding: None
- Frequency of ponding: None
- Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

- Land capability classification (irrigated): None specified
- Land capability classification (nonirrigated): 2e
- Hydrologic Soil Group: B

NOTE:
FOR CONSTRUCTION ACTIVITIES THAT HAVE A DISTURBED AREA GREATER THAN 1 ACRE, THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) WILL REQUIRE THIS PROJECT TO FOLLOW THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT PROGRAM (VPDES) AND TO REGISTER FOR A VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT. PURSUANT TO THIS PERMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPP) AND AN APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE ON SITE AT ALL TIMES. CONTRACTOR SHALL CONTACT BOTETOURT COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR FOR REGISTRATION AND SECURE ALL PERMITS REQUIRED FOR CONSTRUCTION, PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.



Drawn	ACF	GRADING AND EROSION CONTROL PLAN MEMBER ONE FEDERAL CREDIT UNION	1" = 20'
Designed	ECI		DATE: JUNE 15, 2018
Checked			PROJECT: 17063
Approved			C05
		DALEVILLE TOWN CENTER BOUTETOURT COUNTY, VA	

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