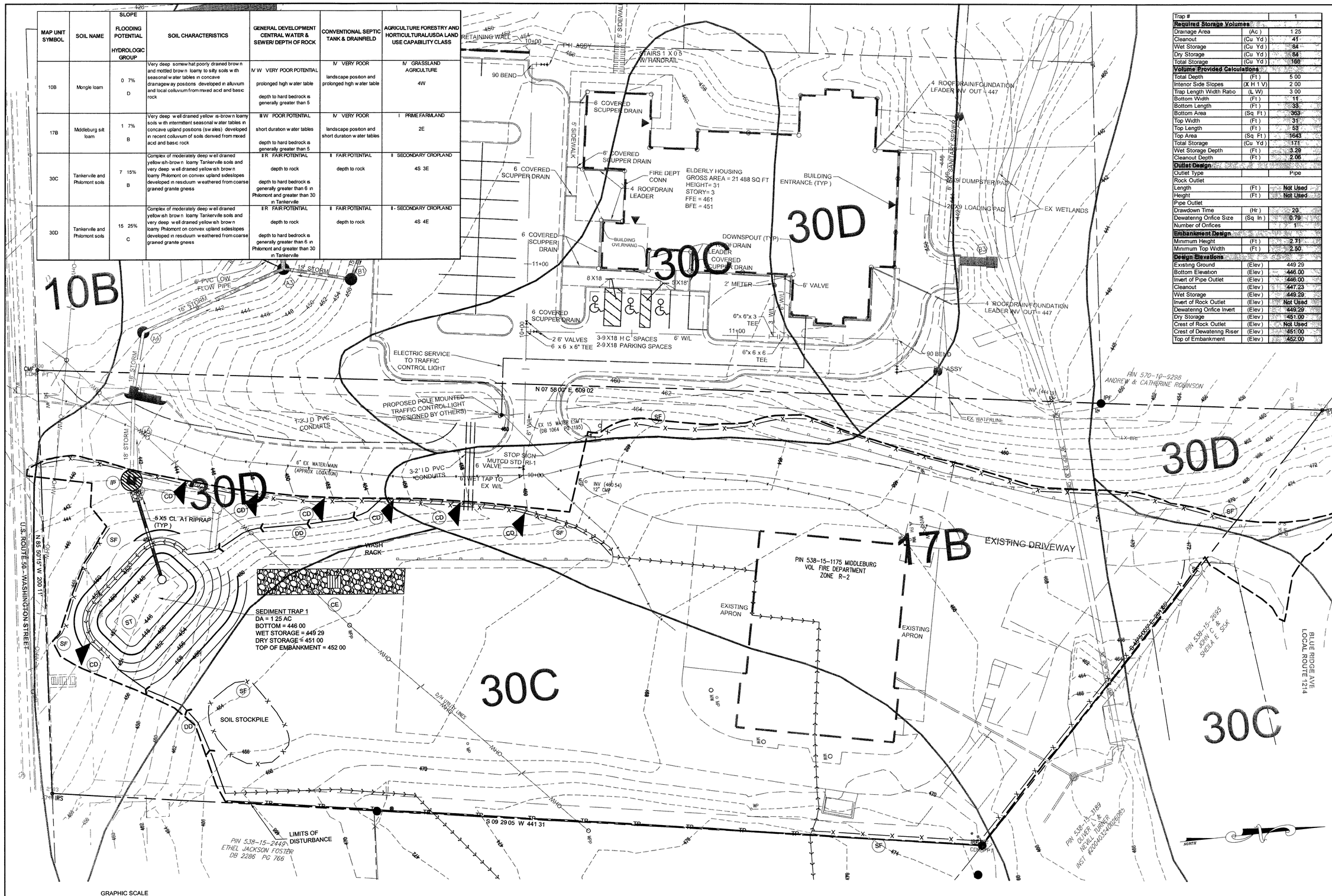
MAP UNIT SYMBOL	SOIL NAME	SLOPE / FLOODING POTENTIAL / HYDROLOGIC GROUP	SOIL CHARACTERISTICS	GENERAL DEVELOPMENT CENTRAL WATER & SEWER/ DEPTH OF ROCK	CONVENTIONAL SEPTIC TANK & DRAINFIELD	AGRICULTURE FORESTRY AND HORTICULTURAL/USDA LAND USE CAPABILITY CLASS
10B	Mongle loam	0 7% D	Very deep somewhat poorly drained brown and mottled brown loamy to silty soils with seasonal water tables in concave drainageway positions developed in alluvium and local colluvium from mixed acid and basic rock	IV W VERY POOR POTENTIAL prolonged high water table depth to hard bedrock is generally greater than 5	IV VERY POOR landscape position and prolonged high water table	IV GRASSLAND AGRICULTURE 4W
17B	Middleburg silt loam	1 7% B	Very deep well drained yellowish-brown loamy soils with intermittent seasonal water tables in concave upland positions (swales) developed in recent colluvium of soils derived from mixed acid and basic rock	III W POOR POTENTIAL short duration water tables depth to hard bedrock is generally greater than 5	IV VERY POOR landscape position and short duration water tables	I PRIME FARMLAND 2E
30C	Tankerville and Philomont soils	7 15% B	Complex of moderately deep well drained yellowish-brown loamy Tankerville soils and very deep well drained yellowish brown loamy Philomont on convex upland sideslopes developed in residuum weathered from coarse grained granite gneiss	II R FAIR POTENTIAL depth to rock depth to hard bedrock is generally greater than 6 in Philomont and greater than 30 in Tankerville	II FAIR POTENTIAL depth to rock	II SECONDARY CROPLAND 4S 3E
30D	Tankerville and Philomont soils	15 25% C	Complex of moderately deep well drained yellowish brown loamy Tankerville soils and very deep well drained yellowish brown loamy Philomont on convex upland sideslopes developed in residuum weathered from coarse grained granite gneiss	II R FAIR POTENTIAL depth to rock depth to hard bedrock is generally greater than 6 in Philomont and greater than 30 in Tankerville	II FAIR POTENTIAL depth to rock	II - SECONDARY CROPLAND 4S 4E



Trap #		1
Required Storage Volumes		
Drainage Area	(Ac)	1 25
Cleanout	(Cu Yd)	41
Wet Storage	(Cu Yd)	84
Dry Storage	(Cu Yd)	84
Total Storage	(Cu Yd)	168
Volume Provided Calculations		
Total Depth	(Ft)	5 00
Interior Side Slopes	(X H 1 V)	2 00
Trap Length Width Ratio	(L W)	3 00
Bottom Width	(Ft)	11
Bottom Length	(Ft)	33
Bottom Area	(Sq Ft)	363
Top Width	(Ft)	31
Top Length	(Ft)	53
Top Area	(Sq Ft)	1643
Total Storage	(Cu Yd)	171
Wet Storage Depth	(Ft)	3.29
Cleanout Depth	(Ft)	2.06
Outlet Design		
Outlet Type		Pipe
Rock Outlet		
Length	(Ft)	Not Used
Height	(Ft)	Not Used
Pipe Outlet		
Drawdown Time	(Hr)	20
Dewatering Orifice Size	(Sq In)	0.79
Number of Orifices		1
Embankment Design		
Minimum Height	(Ft)	2.71
Minimum Top Width	(Ft)	2.50
Design Elevations		
Existing Ground	(Elev)	449 29
Bottom Elevation	(Elev)	446.00
Invert of Pipe Outlet	(Elev)	446.00
Cleanout	(Elev)	447.23
Wet Storage	(Elev)	449.29
Invert of Rock Outlet	(Elev)	Not Used
Dewatering Orifice Invert	(Elev)	449.29
Dry Storage	(Elev)	451.00
Crest of Rock Outlet	(Elev)	Not Used
Crest of Dewatering Riser	(Elev)	451.00
Top of Embankment	(Elev)	452.00

Bury+Partners
ENGINEERING SOLUTIONS
Consulting Engineers and Surveyors
3810 Concorde Parkway Suite 1000
Chantilly Virginia 20151
Tel 703/968-9090 Fax 703/968-4668
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MIDDLEBURG VOLUNTEER FIRE DEPARTMENT BUILDING ADDITION
FINAL SITE PLAN
BLUE RIDGE DISTRICT
TOWN OF MIDDLEBURG, VIRGINIA

Phase 1 Erosion & Sedimentation Control Plan

DATE	NO	REVISION	INIT
5 2 08	1	REMOVE MEETING HALL	
7 10 08	2	SEC 2ND REVIEW COMMENTS	

COMMONWEALTH OF VIRGINIA
WILLIAM D HUME
No. 0037880
7/10/08
PROFESSIONAL ENGINEER

SCALE	1" = 20'
DATE	11-16-07
DRAWN BY	PJC/BP
DESIGNED BY	PJC
REVIEWED BY	MS
PROJ NO	220550002

SHEET 12 OF 18