

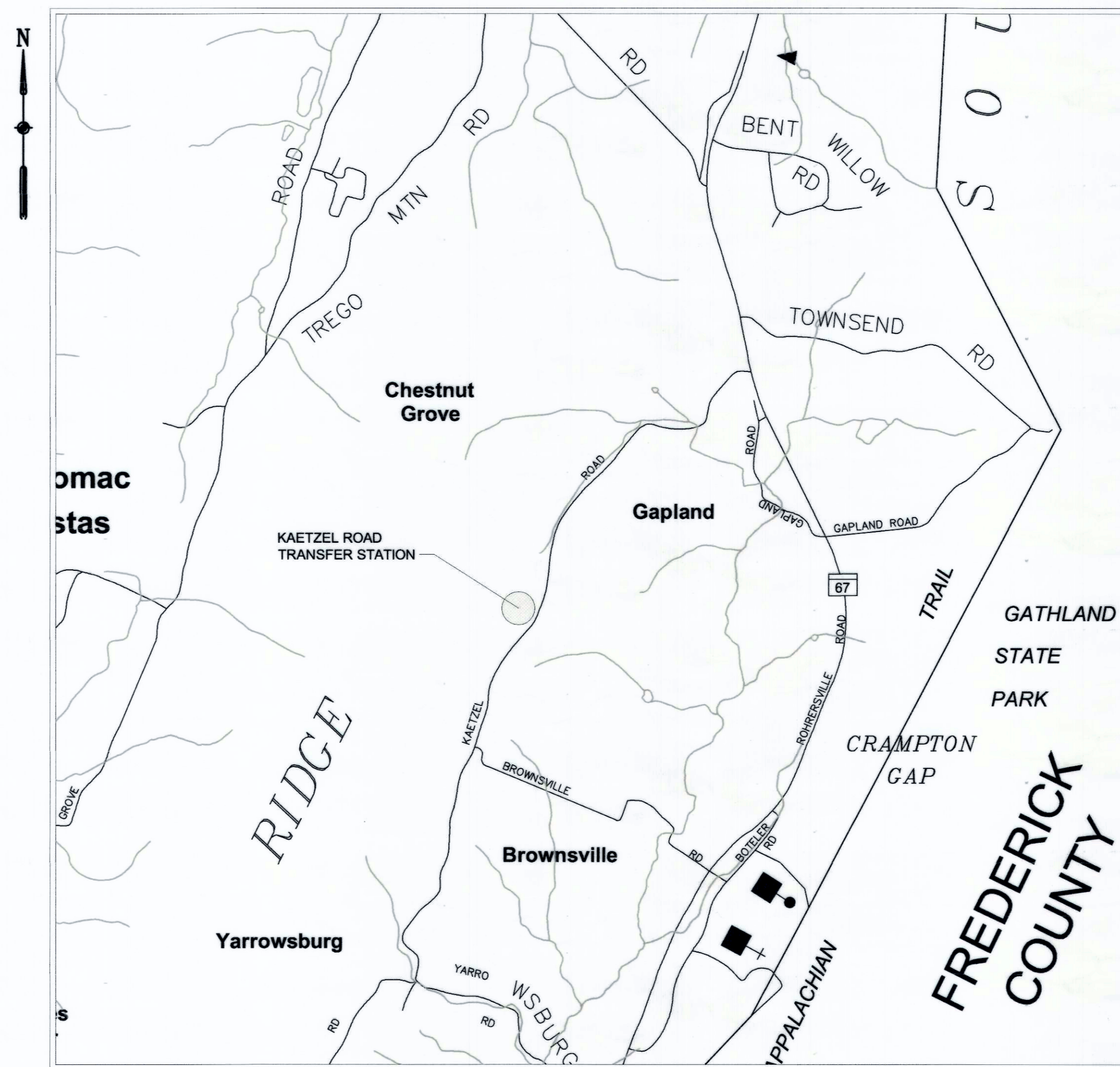


# DIVISION OF ENVIRONMENTAL MANAGEMENT DEPARTMENT OF SOLID WASTE AND WATERSHED PROGRAMS

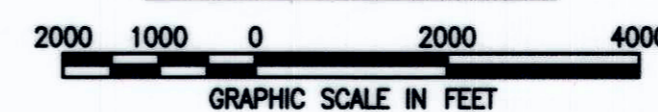
## KAETZEL TRANSFER STATION RETAINING WALL REPLACEMENT

### DISTURBED AREA QUANTITIES

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 0.41 ACRES AND THE TOTAL AMOUNT OF EXCAVATION AND FILL SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 0.00 CUBIC YARDS OF EXCAVATION AND APPROXIMATELY 0.00 CUBIC YARDS OF FILL.



VICINITY MAP



### BOARD OF COUNTY COMMISSIONERS

TERRY BAKER, PRESIDENT  
JEFFERY CLINE, VICE PRESIDENT  
JOHN BARR  
LEROY MYERS  
WAYNE KEEFER

ROBERT SLOCUM, COUNTY ADMINISTRATOR

PROJECT NO. 20-152

THERE ARE NO STREAMS, OR HABITAT OF THREATENED OR ENDANGERED SPECIES IDENTIFIED BY THE U.S. FISH AND WILDLIFE SERVICE PER 50 CFR 17 AS REQUIRED TO BE SHOWN BY SECTION 314 OF THE WASHINGTON COUNTY SUBDIVISION ORDINANCE AND SECTION 4.21 OF THE WASHINGTON COUNTY ZONING ORDINANCE, EXCEPT AS SHOWN HEREON.

A STORMWATER MANAGEMENT WAIVER FOR QUALITY AND QUANTITY HAS BEEN GRANTED UNDER SECTIONS 3.2.2.C AND 3.2.3.C IN THE WASHINGTON COUNTY STORMWATER MANAGEMENT, GRADING, SOIL EROSION AND SEDIMENT CONTROL ORDINANCE.

A FOREST CONSERVATION/REFORESTATION PLAN WAS DEVELOPED AND APPROVED AS PART OF THE PHASE III PERMIT DOCUMENTS. THE PLAN IS DATED MARCH 1998 (REVISED JULY 1998).

### INDEX OF SHEETS:

1 of 4	TITLE SHEET
2 of 4	PLAN
3 of 4	PROFILE AND DETAILS
4 of 4	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SITE	ADDRESS	ZONING	TAX MAP/ PARCEL	ELECTION DISTRICT
KAETZEL	2926 KAETZEL ROAD BROWNSVILLE, MD 21715	P	0084/0143	08

### APPROVED FOR CONSTRUCTION

*[Signature]*  
DAVID A. MASON, P.E. DATE 6-8-18  
DEPUTY DIRECTOR OF ENVIRONMENTAL MANAGEMENT FOR WASHINGTON COUNTY, MD.

### OWNER / DEVELOPER'S CERTIFICATION

I/WE CERTIFY ALL/ANY PARTIES RESPONSIBLE FOR CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL; BE DONE PURSUANT TO THIS PLAN AND RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT.

DAVID A. MASON, P.E.  
DEPUTY DIRECTOR OF ENVIRONMENTAL MANAGEMENT FOR WASHINGTON COUNTY, MD.

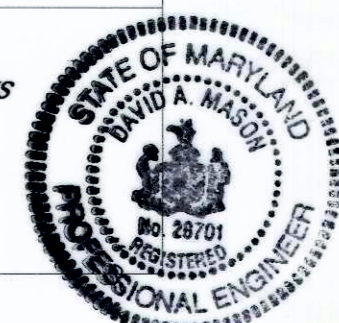
### ENGINEER/ARCHITECT DESIGN CERTIFICATION

I HEREBY CERTIFY THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01.07 AND MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

6-8-18 28701  
DATE REGISTRATION NUMBER SIGNATURE

*Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.*

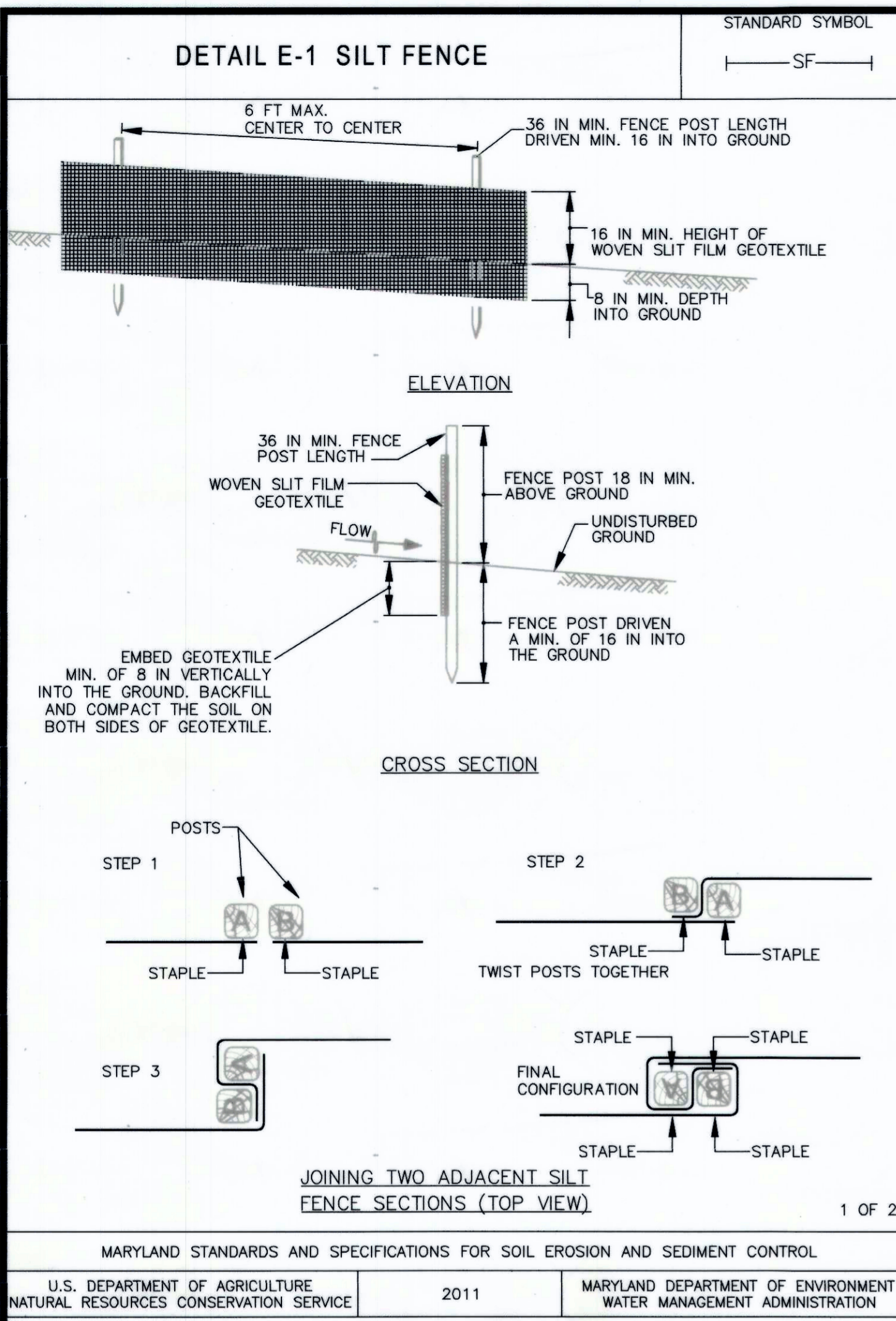
License No. 28701, Expiration Date: 7/22/19



BOARD OF COUNTY COMMISSIONERS  
FOR WASHINGTON COUNTY, MD  
AGENT: DAVID A. MASON, P.E., DEPUTY DIRECTOR  
16232 ELLIOTT PARKWAY  
WILLIAMSPORT, MARYLAND 21795  
PHONE: 240-313-2600  
FAX: 240-313-2601







### DETAIL E-1 SILT FENCE

STANDARD SYMBOL: —SF—

#### CONSTRUCTION SPECIFICATIONS

- USE WOOD POSTS 1 3/4 X 1 3/4 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
- USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
- USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
- PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
- WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
- EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### SEQUENCE OF CONSTRUCTION

- CONTRACTOR SHALL CONTACT WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT 301-797-6821 (EXT 3) AND WASHINGTON COUNTY DEPARTMENT OF ENGINEERING AND CONSTRUCTION AT 240-313-2400 AT LEAST FIVE DAYS IN ADVANCE TO SCHEDULE PRE-CONSTRUCTION MEETING.
- SILT FENCE, FILTER DIKES AND OTHER EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE PLAN IF APPLICABLE.
- REMOVE EXISTING RETAINING WALL, PAVEMENT AND CONCRETE PADS.
- INSTALL RETAINING WALL AND CONCRETE PADS.
- COMPLETE PAVING AND FINAL SITE STABILIZATION AND CLEANUP AS REQUIRED.
- NOTIFY WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT (301)797-6821 EXT 3 AND THE WASHINGTON COUNTY DIVISION OF DEPARTMENT OF ENGINEERING AND CONSTRUCTION AT 240-313-2400 AT LEAST 5 DAYS PRIOR TO THE REMOVAL OF ANY SEDIMENT CONTROL FEATURES TO SCHEDULE THE FINAL CLOSEOUT REVIEW MEETING. UPON APPROVAL BY WCSD TEMPORARY EROSION & SEDIMENT CONTROL MEASURES CAN BE REMOVED AND STABILIZE AREAS.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DATE	
REVISION	
ENGINEER	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	3/2018

Professional Certification / I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 28701, Expiration Date: 7/22/19

### SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES

- ALL SOIL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
- ALL GRADING AND STABILIZATION SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", "SECTION B - GRADING AND STABILIZATION" AND THE PROVISIONS OF THE APPROVED PLAN.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) ARE TO BE CONSTRUCTED AND/OR INSTALLED PRIOR TO OR AT THE INITIATION OF GRADING IN ACCORDANCE WITH "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND THE APPROVED PLAN.
- A GRADING UNIT IS THE MAXIMUM CONTIGUOUS AREA ALLOWED TO BE GRADED AT A GIVEN TIME AND IS LIMITED TO 20 ACRES. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY AND/OR THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT (APPROVAL AUTHORITY). UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
- FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
  - THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
  - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITHIN THE 7 DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION (AS APPLICABLE).
- ALL CONSTRUCTED CHANNELS AND SWALES SHALL HAVE SPECIFIED TREATMENT INSTALLED TO THE DESIGN FLOW DEPTH COMPLETED DOWNSTREAM TO UPSTREAM AS CONSTRUCTION PROGRESSES. AN INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
- ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- NO SLOPE SHALL BE GREATER THAN 2:1.
- AS REQUIRED BY SECTION B, OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, "ADEQUATE VEGETATIVE STABILIZATION", IS DEFINED AS 95 PERCENT GROUND COVER. THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT REQUIRES THE PROJECT ADHERE TO THIS FOR SCHEDULING OF THE FINAL SITE CLOSEOUT REVIEW, AND/OR RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL.

#### Permanent Seeding Summary

Hardiness Zone (Figure B.3): ZONE 6b					Fertilizer Rate (10-20-20)			Lime Rate
Seed Mixture (Table B.3):					N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths (inches)				
6	Tall Fescue	40 lb/ac. 0.93 lb/1000 s.f.	March 15-May 31; August - October 15	1 - 1/2 in	45 lb/ac. (1 lb/1000 s.f.)	90 lb/ac. (2 lb/1000 s.f.)	90 lb/ac. (2 lb/1000 s.f.)	2 tons/ac (90 lb/1000 sf)
	Perennial Ryegrass	25 lb/ac. 0.57 lb/1000 s.f.	March 15-May 31; August - October 15	1 - 1/2 in				
	White Clover	5 lb/ac. 0.11 lb/1000 s.f.	March 15-May 31; August - October 15	1 - 1/2 in				

#### Temporary Seeding Summary

Hardiness Zone (Figure B.3): ZONE 6b					Fertilizer Rate (10-20-20)	Lime Rate
Seed Mixture (Table B.1):						
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths (inches)		
1	Barley (Hordeum vulgare)	96 lb/ac. 2.2 lb/1000 s.f.	March 15-May 31; August - October 15	1.0	436 lb/ac. (10 lb/1000 s.f.)	2 tons/ac (90 lb/1000 sf)

**FOR SITES 1.0 ACRE OR MORE, THE FOLLOWING ARE REQUIRED:**

- MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH A CONSTRUCTION ACTIVITY, NPDES PERMIT NUMBER MDR10, STATE DISCHARGE PERMIT NUMBER 09GP, OR AN INDIVIDUAL PERMIT.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT- NOI) APPLICATION AND PERMIT SHALL BE POSTED AND/OR AVAILABLE ON-SITE AT ALL TIMES.
- DURING CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (BMP'S) SHALL BE INSPECTED AND RECORDED ON THE "STANDARD INSPECTION FORM", "GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY" PER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - NOI).
- FOLLOWING CONSTRUCTION AND RELEASE OF THE SIGHT FOR SOIL EROSION AND SEDIMENT CONTROL BY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT, I.E., ALL PORTIONS OF A SITE HAVE BEEN PERMANENTLY STABILIZED, AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE AUTHORIZED PERMITTEE SHALL SUBMIT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL/INDIVIDUAL PERMIT - NOTICE OF TERMINATION (NOT).

Washington County  
MARYLAND

DIVISION OF ENVIRONMENTAL MANAGEMENT  
DEPARTMENT OF SOLID WASTE AND WATERSHED PROGRAMS

16232 ELLIOTT PARKWAY  
FREDERICK, MD 21701  
240-313-2870 Fax: 301-592-3812

KAETZEL TRANSFER STATION  
RETAINING WALL REPLACEMENT

EROSION AND SEDIMENT CONTROL  
NOTES AND DETAILS

SCALE  
AS SHOWN

SHEET NO.  
4 OF 4

PROJECT NO.  
20-152