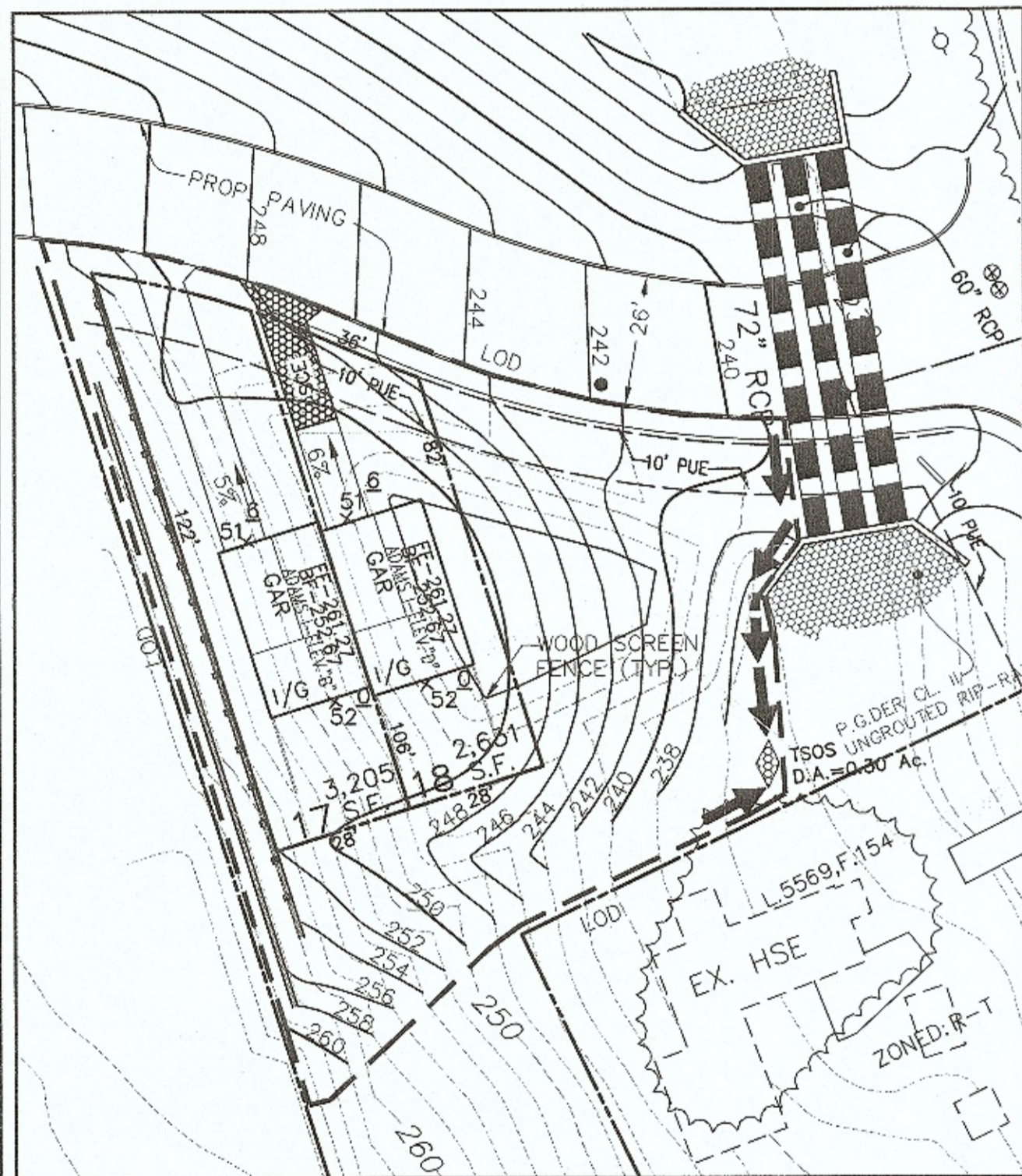


SEDIMENT TRAP NO. 1:
 TYPE: PIPE OUTLET SEDIMENT TRAP (ST-1)
 D.A. (PRE-DEVELOPMENT)=1.60 AC.
 D.A. (POST-DEVELOPMENT)=1.90 AC.
 WET STORAGE REG'D.=3,420 C.F.
 DRY STORAGE REG'D.=3,420 C.F.
 WET STORAGE PROVIDED=3,578 C.F.
 DRY STORAGE PROVIDED=3,443 C.F.
 STORAGE DEPTH(WET)=2.20'
 STORAGE DEPTH(DRY)=1.50'
 TRAP BOTTOM ELEVATION=236.00
 WET STORAGE ELEVATION=238.20
 DRY STORAGE ELEVATION=239.70
 TOP OF EMBANKMENT ELEVATION=240.00
 AVERAGE BOTTOM SIZE=46"X40"
 WIDTH AT TOP OF EMBANKMENT=4.0'
 MAX. SIDE SLOPE (CUT & FILL)=2:1
 CLEANOUT ELEVATION=237.20



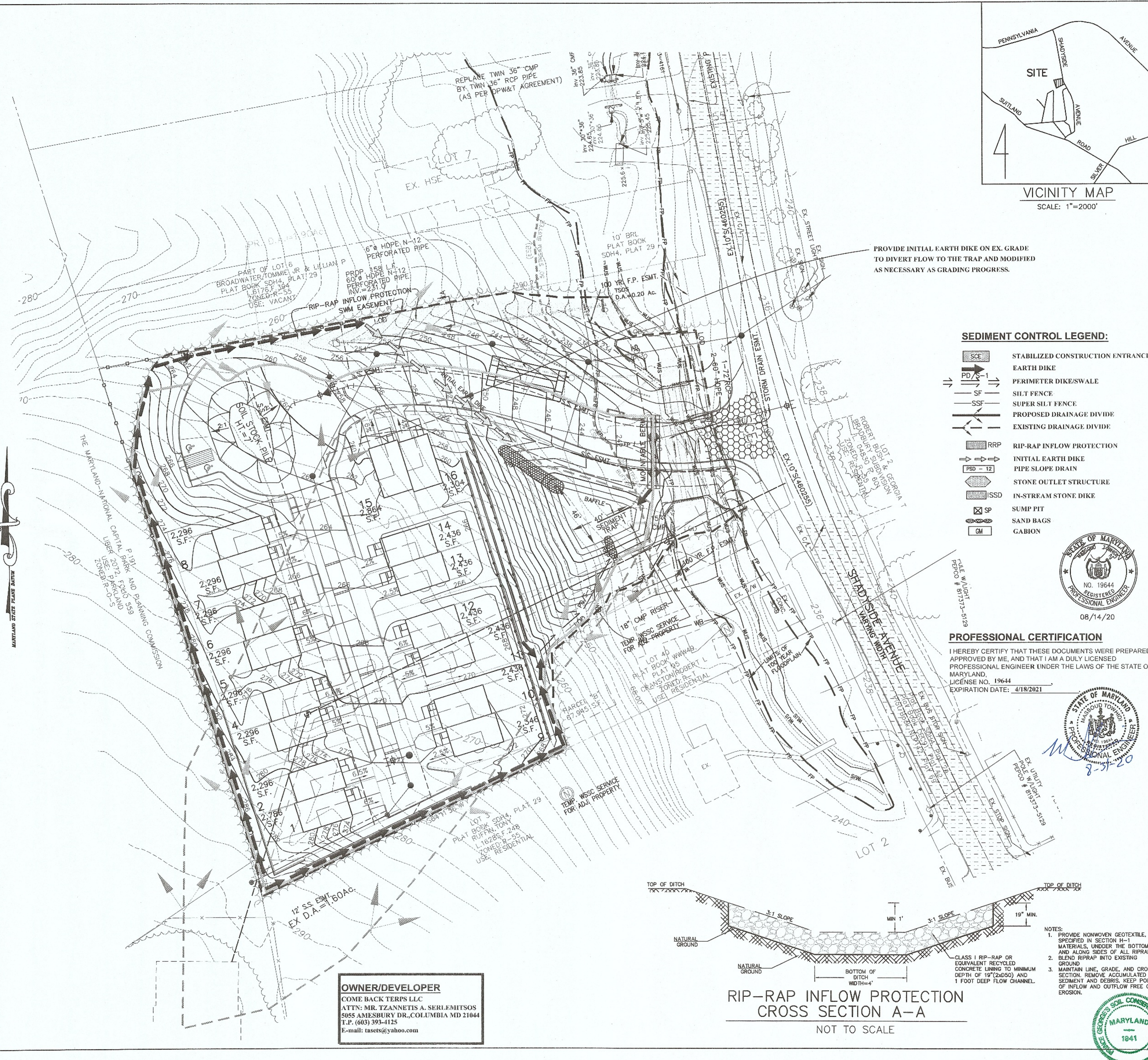
GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN FOR REMOVAL OF STONE OUTLET SEDIMENT TRAP #1 AND CONSTRUCTION OF LOTS 17 & 18

LEGEND:

- | | |
|----------------------------|-----------------------------------|
| EXISTING: | PROPOSED: |
| ⊕ FIRE HYDRANT | ⊕ FIRE HYDRANT |
| ⊙ WATER MANHOLE | ⊕ WATER VALVE |
| ⊙ STORM DRAIN MANHOLE | ⊕ WATER MANHOLE |
| ⊙ SEWER MANHOLE | ⊕ STORM DRAIN MANHOLE |
| ⊙ LIGHT POLE | ⊕ SEWER MANHOLE |
| ⊙ POWER POLE | □ CATCH BASIN |
| -x- FENCE LINE | □ YARD INLET |
| ○ SPECIMEN TREE | ▬ STORM DRAIN PIPE |
| ~ TREE LINE | ▬ FLOW LINE |
| -OH- OVER HEAD WIRES | ~ TREE LINE |
| 2 INTER. 2' CONTOUR | ▬ BUILDING RESTRICTION LINE(TYP.) |
| 10 INDEX 10' CONTOUR | ▬ CONTOUR |
| ▬ BUILDING/SHEDS | ▬ BUILDING |
| ▬ EX. 100 YR. FLOOD PLAIN | |
| ▬ WUS WATER OF U.S. LIMITS | |
| ▬ WL WETLAND | |
| ▬ WB WETLAND BUFFER | |
| ▬ PROPOSED 100 YR. F.P. | |

MISS UTILITY
 FOR LOCATION OF UTILITIES CALL 1-800-257-7777
 48 HOURS IN ADVANCE OF ANY WORK IN THE VICINITY

OWNER/DEVELOPER
 COME BACK TERPS LLC
 ATTN: MR. TZANNETIS A. SERLEMITOS
 5055 AMESBURY DR., COLUMBIA MD 21044
 T.P. (603) 393-4125
 E-mail: tzasetis@yahoo.com

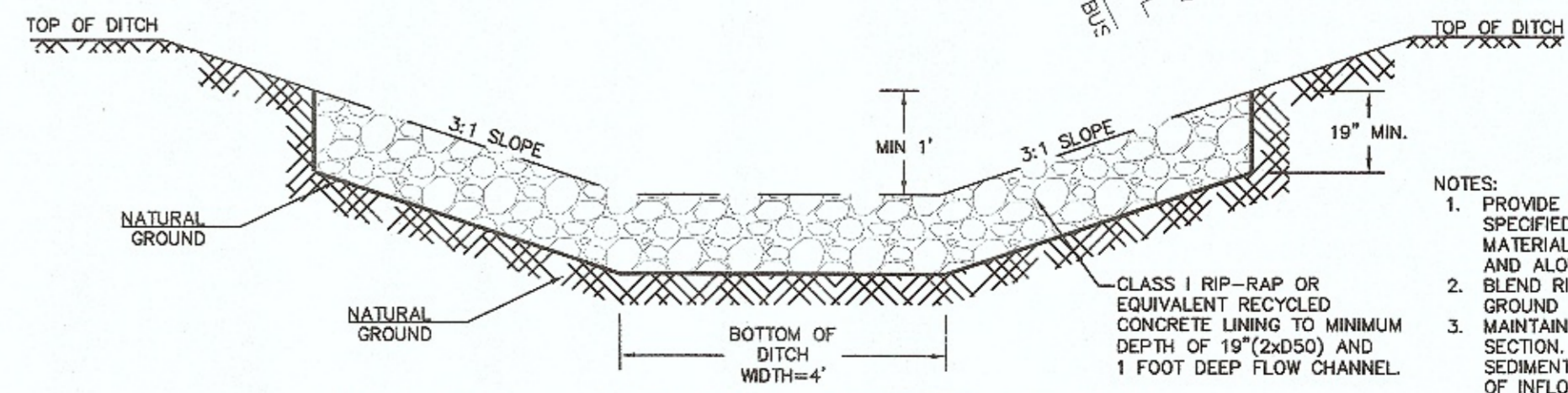


SEDIMENT CONTROL LEGEND:

- | | |
|----------------------------|----------------------------------|
| ▬ SCE | STABILIZED CONSTRUCTION ENTRANCE |
| ▬ EARTH DIKE | EARTH DIKE |
| ▬ PD | PERIMETER DIKE/SWALE |
| ▬ SF | SILT FENCE |
| ▬ SSF | SUPER SILT FENCE |
| ▬ PROPOSED DRAINAGE DIVIDE | PROPOSED DRAINAGE DIVIDE |
| ▬ EXISTING DRAINAGE DIVIDE | EXISTING DRAINAGE DIVIDE |
| ▬ RRP | RIP-RAP INFLOW PROTECTION |
| ▬ IED | INITIAL EARTH DIKE |
| ▬ PSD-12 | PIPE SLOPE DRAIN |
| ▬ ISSD | STONE OUTLET STRUCTURE |
| ▬ ISSD | IN-STREAM STONE DIKE |
| ⊕ SP | SUMP PIT |
| ⊕ SB | SAND BAGS |
| ⊕ GM | GABION |



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. 19644
 EXPIRATION DATE: 4/18/2021



RIP-RAP INFLOW PROTECTION CROSS SECTION A-A
 NOT TO SCALE

- NOTES:
- PROVIDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL RIP-RAP. BLEND RIP-RAP INTO EXISTING GROUND.
 - MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. KEEP POINTS OF INFLOW AND OUTFLOW FREE OF EROSION.



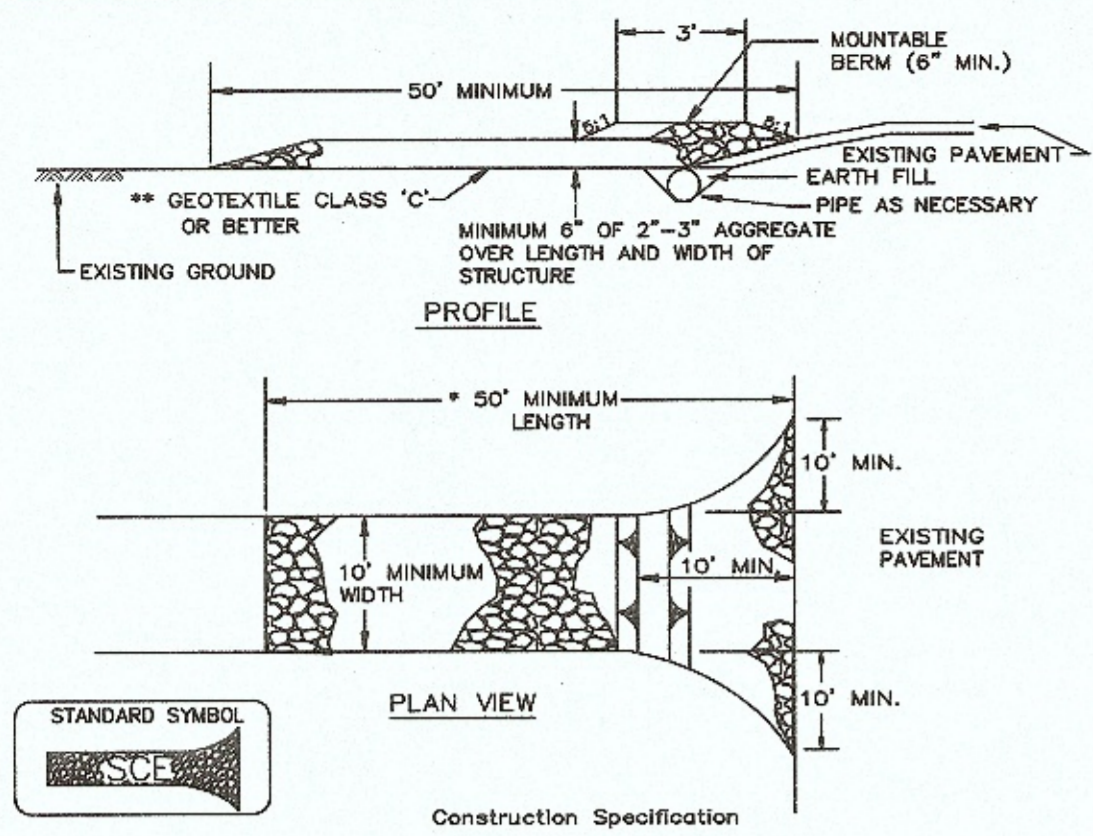
CAPITOL DEVELOPMENT DESIGN, INC.
 ENGINEERS - PLANNERS - SURVEYOR'S
 4600 POWDER MILL ROAD - SUITE 200 - BELTSVILLE, MD 20705
 OFFICE (301) 937-3501 FAX (301) 937-3501

BRADBURY SUBDIVISION
 SQUADINGS 6TH ELECTION DISTRICT
 PRINCE GEORGE'S COUNTY, MARYLAND

FINAL GRADING, SOIL EROSION & SEDIMENT CONTROL PLAN

REVISIONS	
1. PLAN UPDATE, RRR, 04/26/2011	
2. PLAN UPDATE, RRR 12/20/2019	
3. ADDRESS SCD COMMENTS, RRR 08/14/2020	
DATE: NOV., 2006	
DWN. RLS	CHECKED VC
SCALE: 1"=30'	
PROJECT/FILE NO. 04-020	
SHEET NO. SC 2 OF 5	

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

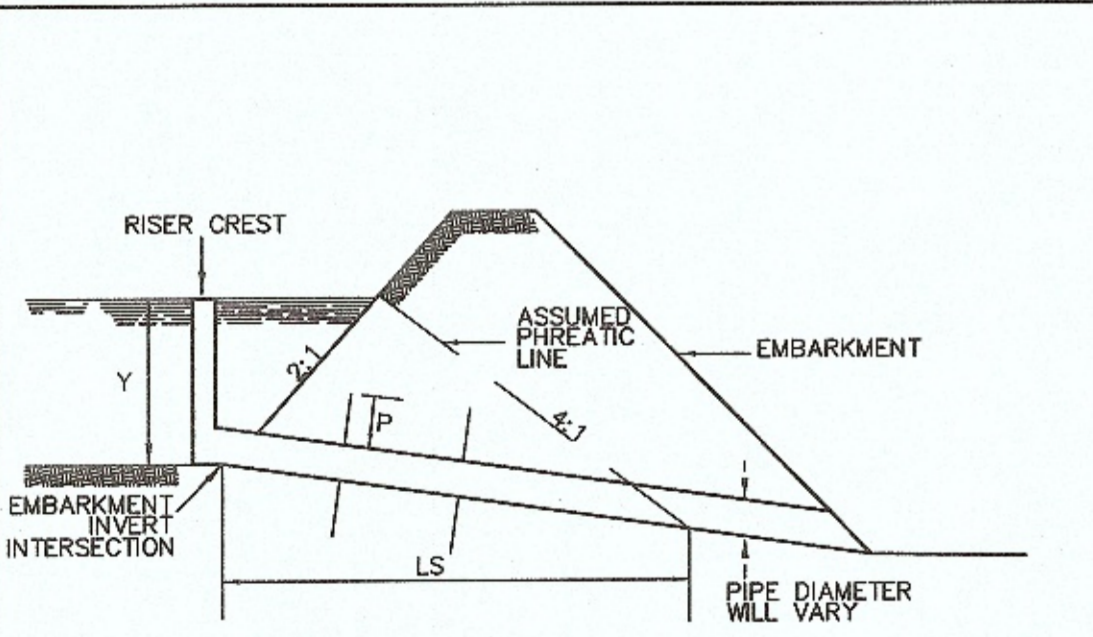


- Construction Specifications**
- Length - minimum of 50' (*30' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.
- U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STABILIZED CONSTRUCTION ENTRANCE

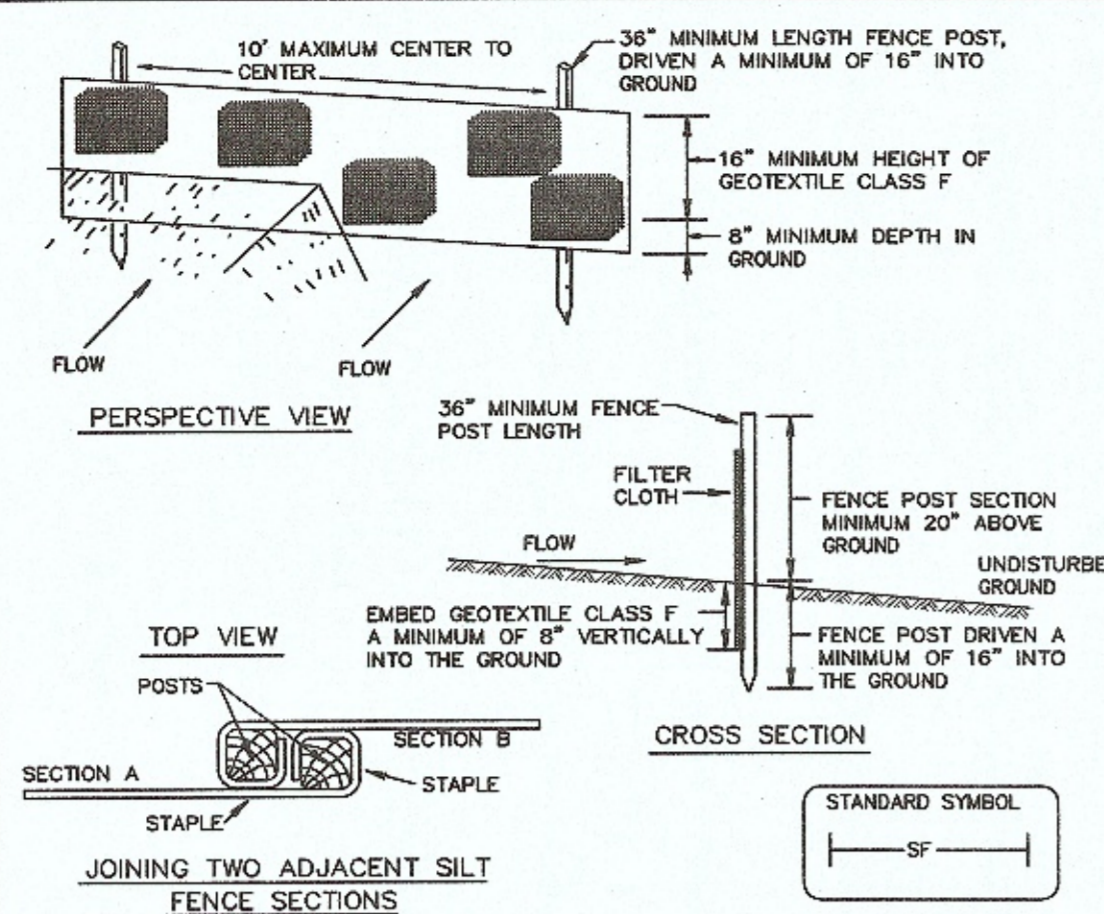
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- U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 13 - ANTI-SEEP COLLAR DESIGN



- ANTI SEEP COLLAR DESIGN**
- where: p = vertical projection of anti-seep collar (ft.)
 L_s = length of pipe in the saturated zone (ft.)
 y = distance in feet from upstream invert of pipe to highest normal water level expected to occur during the life of the structure usually the top of the riser.
 z = slope of upstream embankment as a ratio of 2 ft. horizontal to one ft. vertical.
 z_0 = slope of pipe in feet per foot.
- This procedure is based on the phreatic line as shown in the drawing above:

DETAIL 22 - SILT FENCE



- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft / minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.
- U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SILT FENCE

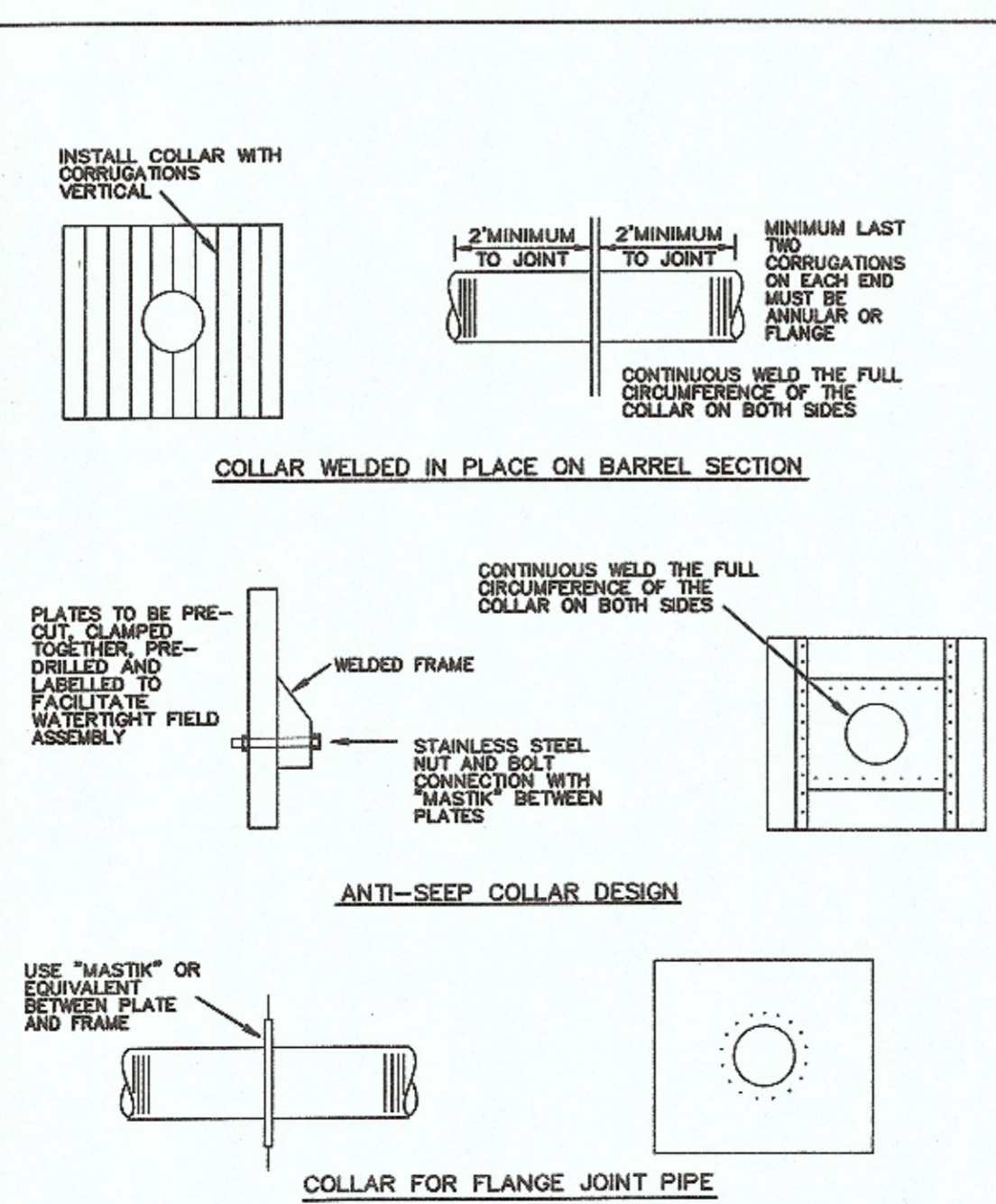
Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

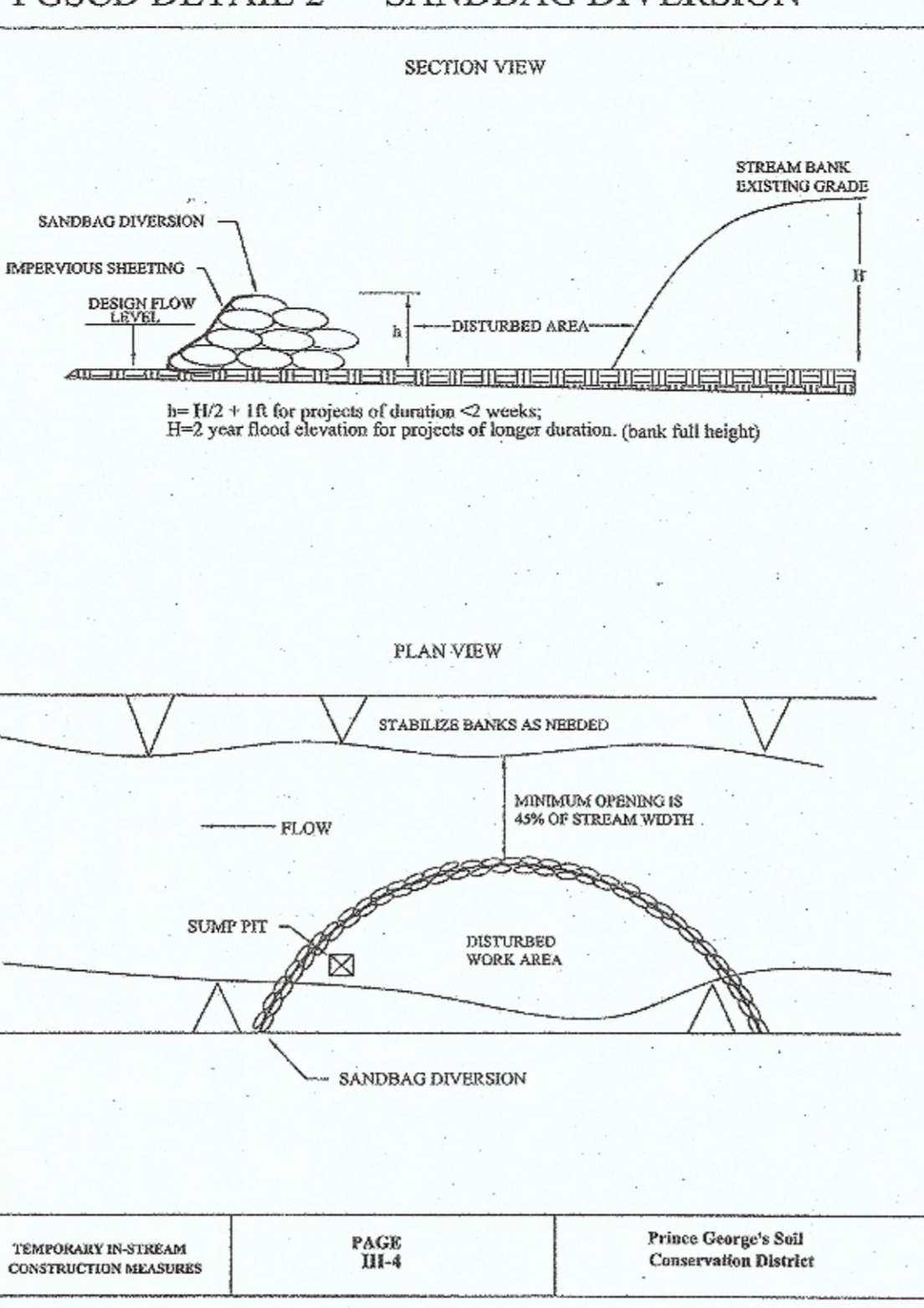
Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

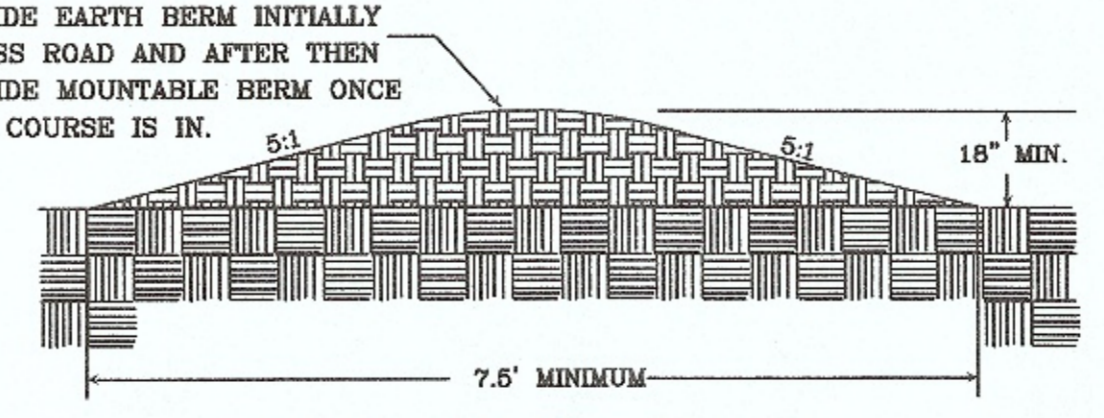
DETAIL 14 - TYPICAL ANTI-SEEP COLLARS



PGSCD DETAIL 2 SANDBAG DIVERSION



- Construction Specifications**
- The height (H) of the sandbag diversion shall be 2-year flood elevation (bankfull height) for projects of two weeks or greater duration. For projects of shorter duration the height (h) can be H/2 + 1 foot where H is the height of the embankment.
 - Sandbags shall consist of materials which are resistant to ultra-violet radiation, punctures and tearing. Sandbags must be woven tightly enough to prevent leakage of fill material (i.e. sand, fine gravel, etc.).
 - Sheeting shall consist of polyethylene or other material which is impervious and resistant to punctures and tearing. Sheeting shall be overlapped such that the upstream portion covers the downstream portion with at least a 18 inch overlap.
 - The diversion structure shall be installed from upstream to downstream during periods of low flow.
 - The streambed shall be hand prepared prior to placement of the base layer of sandbags to ensure a water tight fit. It may be necessary to prepare the bank in a similar fashion.
 - All excavated material shall be deposited and stabilized in an approved area outside of the 100 year floodplain.
 - Dewatering of sediment laden water from the construction area shall be pumped from a sump pit to a trapping device or a stable outlet.
 - Sandbag diversions can not obstruct more than 55% of the stream width. Bank stabilization measures need to be placed in the restricted section if accelerated erosion and bank scour are observed during the construction time or if the project time will last more than 2 weeks.
 - Inspection and any required maintenance shall be performed periodically and after each rain event.
- U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE III-4 PRINCE GEORGE'S SOIL CONSERVATION DISTRICT

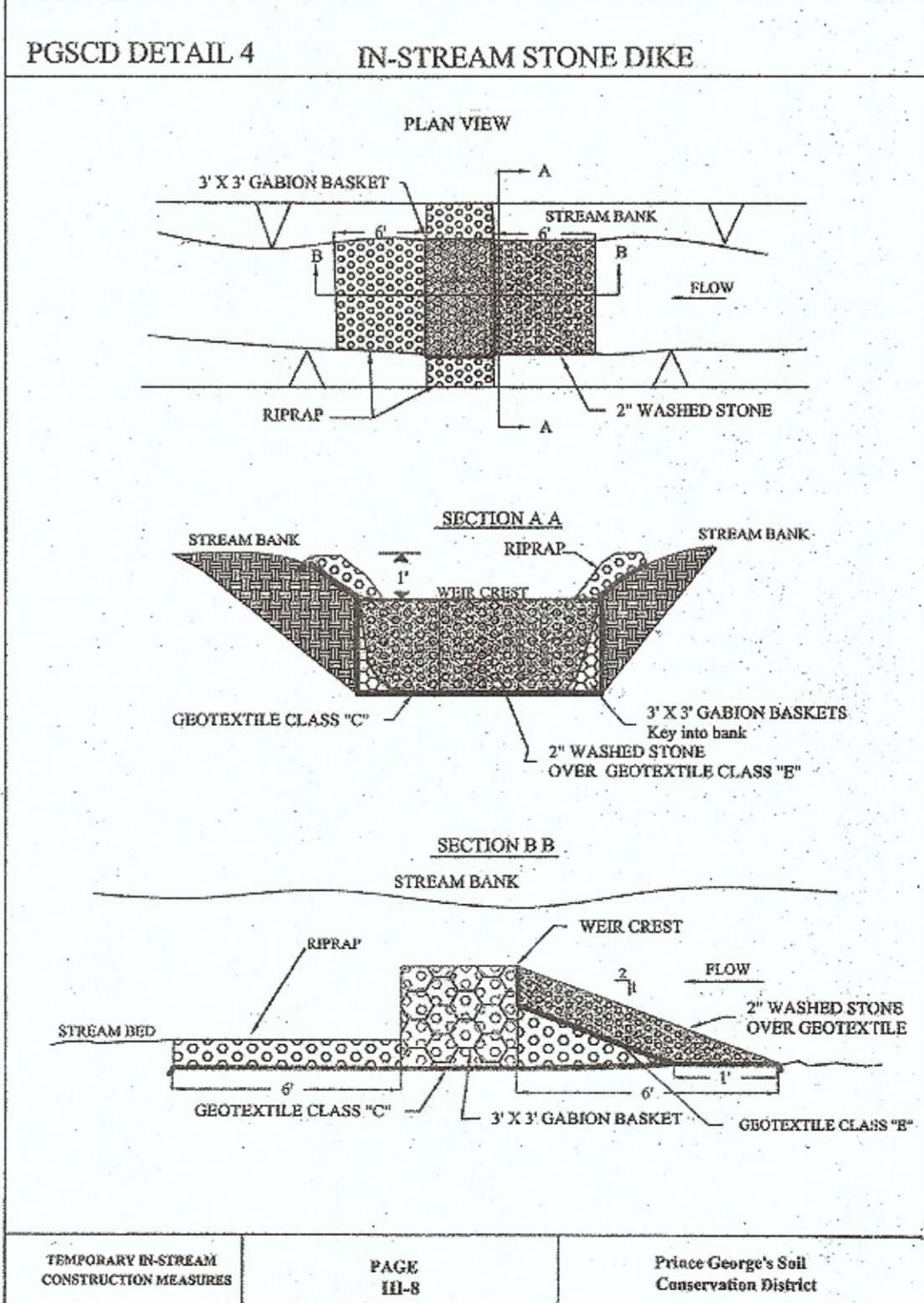
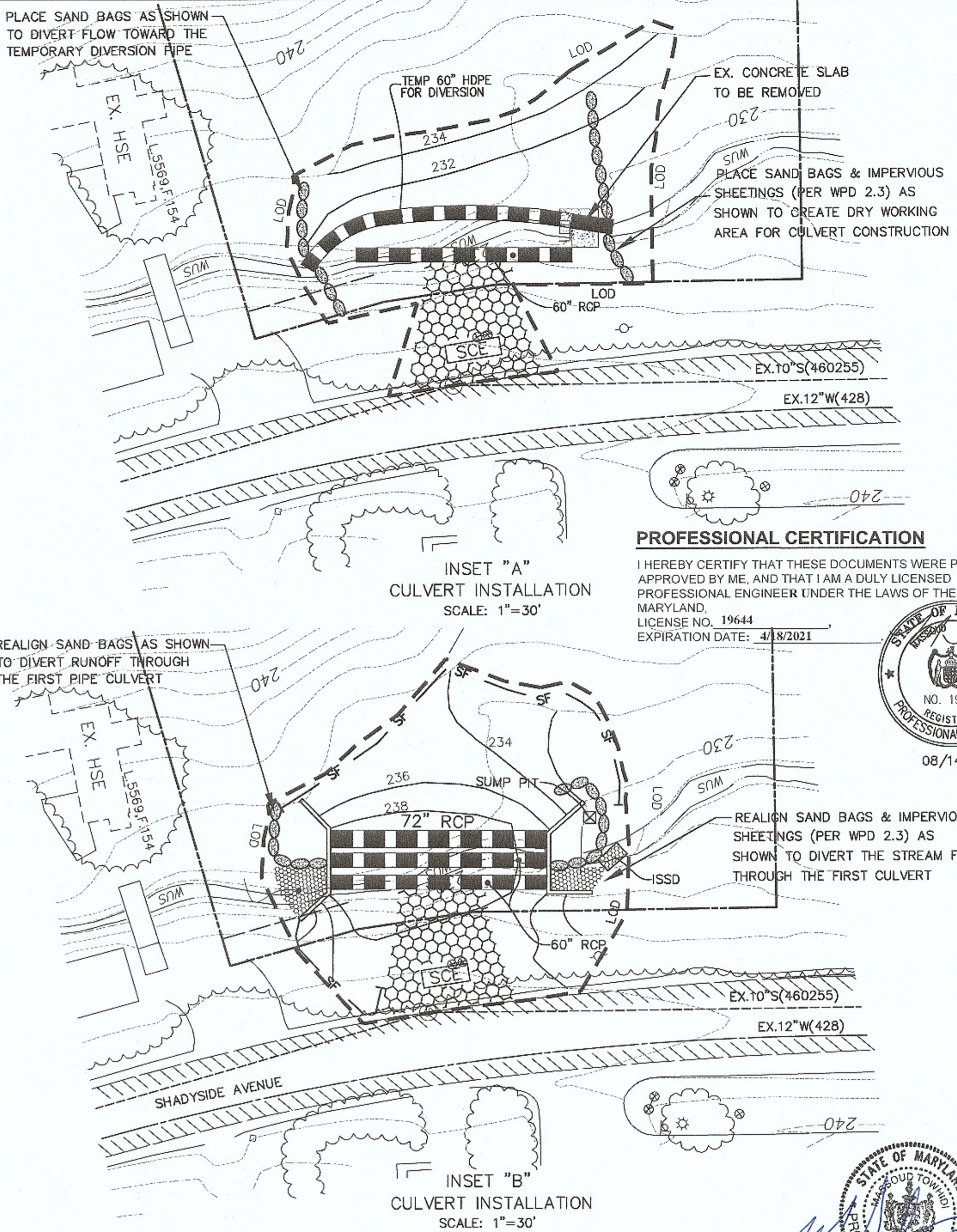


MOUNTABLE BERM DIVERSIONS DETAILS
N.T.S.

OWNER/DEVELOPER
 COME BACK TERPS LLC
 ATTN: MR. TZANNETIS A. SERLEMITOS
 5935 AMESBURY DR., COLUMBIA MD 21044
 T.P. (603) 393-4125
 E-mail: tscts@yahoo.com

MISS UTILITY
 FOR LOCATION OF UTILITIES CALL 1-800-257-7777
 48 HOURS IN ADVANCE OF ANY WORK IN THE VICINITY

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE III-5 PRINCE GEORGE'S SOIL CONSERVATION DISTRICT



- Construction Specifications**
- In-stream stone dike is a sediment filtering device for use in streams that carry wet weather flow only. This device is not for use where base flow conditions exist.
 - The stream subgrade shall be smooth, firm and free from protruding objects or voids that would effect the proper positioning of the wire baskets or damage the filter cloth.
 - Material Specifications - Filter fabric: use Geotextile Class C and E
 Stones: use 2 inch washed stone for filter and 4 - 12 inch stone for gabions and outlet. Gabion baskets: 3 foot by 3 foot.
 - Geotextile Class C shall be carefully and loosely placed on the prepared subgrade and secured. Adjacent strips shall overlap a minimum of 12 inches. If the filter fabric is torn or damaged, it will need to be repaired or replaced.
 - The empty wire baskets units shall be set on the prepared subgrade and the vertical ends bound together with wire ties that are adequate to permit stretching of the units to remove kinks. The use of stakes, pins or other acceptable methods shall be used to insure a good alignment of the empty wire basket units.
 - The empty basket units shall be filled carefully with 4 - 12 inch stone placed by hand or machine to assure good alignment with a minimum of voids between stones to avoid bulging of mesh. Care shall be taken in placing the top layer of stone to assure a uniform surface thus avoiding any bulging of the lid mesh. The lid shall be secured to the sides and ends with wire ties.
 - A one foot layer of 2 inch washed stone over Geotextile Class E shall be placed on the upstream side for sediment filtering.
 - The outlet shall convey the discharge in an erosion free manner to an existing stable channel. 4 - 12 inch stone underlain with Geotextile Class C shall be employed as necessary.
 - Inspection and any required maintenance shall be performed periodically and after each rain event. Entrapped sediment is to be excavated and disposed of in an approved disposal area outside the 100 year floodplain.
- U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE III-9 PRINCE GEORGE'S SOIL CONSERVATION DISTRICT

CAPITOL DEVELOPMENT DESIGN, INC.
 ENGINEERS - PLANNERS - SURVEYOR'S
 4600 POWDER MILL ROAD - SUITE 200 - BELTSVILLE, MD 20705
 OFFICE (301) 937-3501 FAX (301) 937-3501

PROFESSIONAL CERTIFICATION
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 LICENSE NO. 19644
 EXPIRATION DATE: 4/8/2021

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 NO. 19644
 08/14/20

BRADBURY SUBDIVISION
 SQUALDINGS 6TH ELECTION DISTRICT
 PRINCE GEORGE'S COUNTY, MARYLAND

GRADING, SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS

REVISIONS

1. PLAN UPDATE, RRR,	04/26/2011
2. PLAN UPDATE, RRR	12/20/2019
3. ADDRESS SCD COMMENTS, RRR	08/14/2020

DATE: APRIL, 2007
 DWN. RLS. CHECKED VC
 SCALE: AS SHOWN
 PROJECT/FILE NO. 04-020
 SHEET NO. SC 3 OF 5

