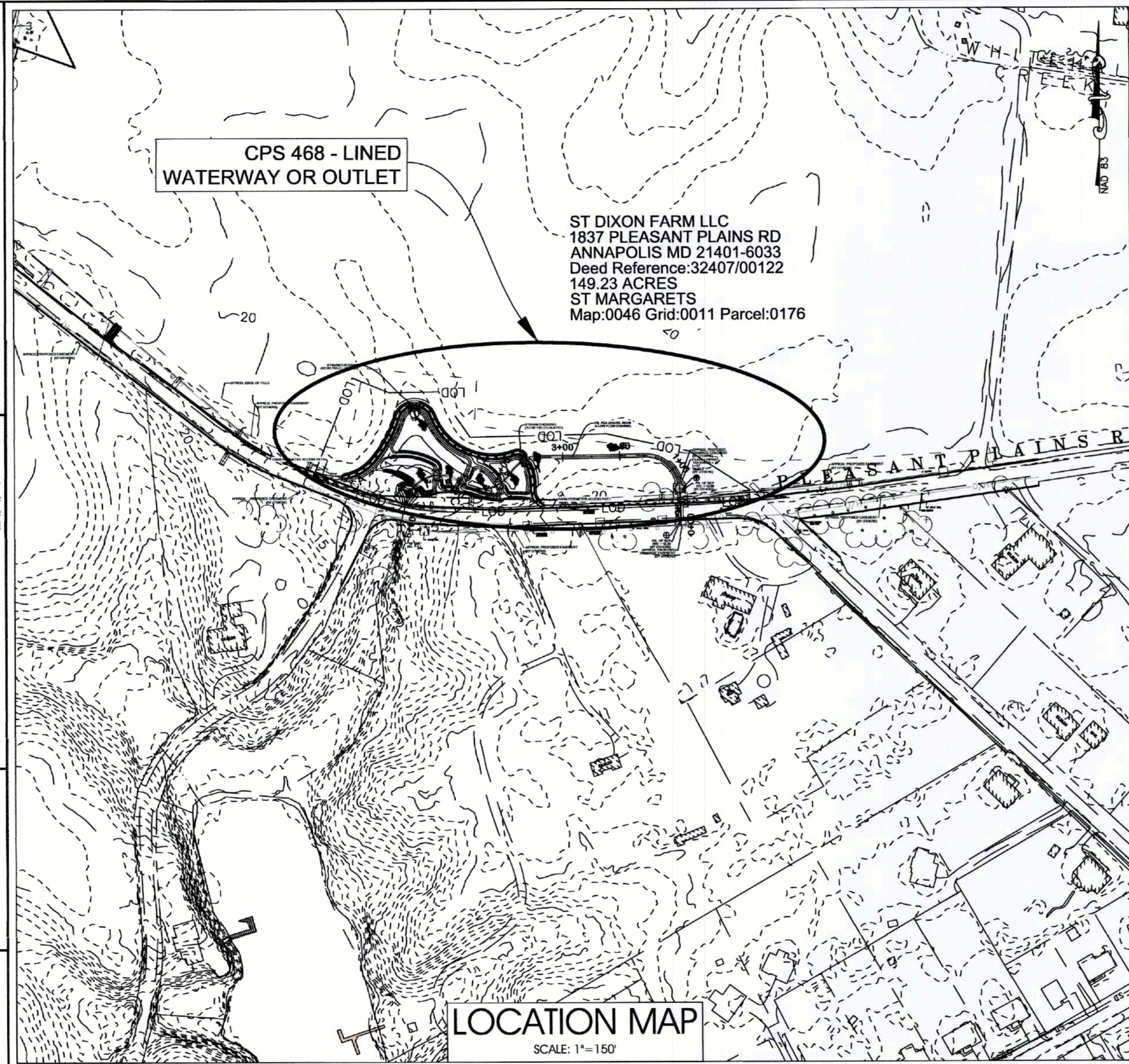
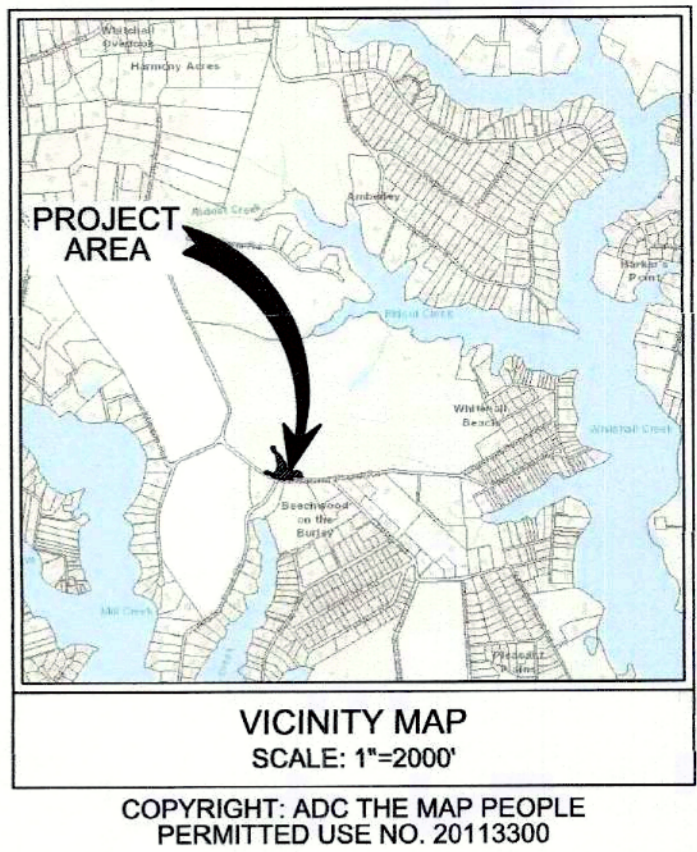


SHEET INDEX	
DESCRIPTION	SHEET
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PROPOSED CONDITIONS AND SEDIMENT EROSION CONTROL	4
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# HIDDEN POINT ROAD LINED WATERWAY OR OUTLET - CPS 468



**CONSULTANT'S CERTIFICATION**

The Developer's plan to control silt and erosion is adequate to contain the silt and erosion on the property covered by the plan. I certify that this plan of erosion and sediment control represents a practical and workable plan based on my personal knowledge of this site, and was prepared in accordance with the requirements of the AASCD Plan Submittal Guidelines and the current Maryland Standards and Specifications for Soil Erosion and Sediment Control. I have reviewed this erosion and sediment control plan with the owner/developer.

MD P.E. License # 11466  
 MD Land Surveyor License #  
 MD Landscape Architect #  
 Name: DAVID J. WALLACE  
 Firm Name:  
 Address: 701 CHESAPEAKE AVENUE  
 City: ANNAPOLIS State: MD Zip Code: 21403

NOTE: The consultant's certification must be signed and sealed by a professional engineer if the site lies within the Severn River Watershed.

To the best of my professional knowledge, judgment, and belief, the design, construction drawings, and specifications meet applicable Maryland NRCS standards and specifications. Furthermore, to the best of my knowledge, judgment, and belief, the proposed work complies with applicable State and Federal laws, rules, and regulations.

Signature of Engineer: [Signature]  
 Date: 1/26/24

Note: Include a Maryland professional engineer's license number and seal.

**INFORMATION STATEMENT**

1A. OWNER/ DEVELOPER:  
ST DIXON FARM LLC  
1837 PLEASANT PLAINS RD  
ANNAPOLIS MD 21401-6033

1B. CONSULTANT:  
UNDERWOOD & ASSOCIATES  
1753 EBLING TRAIL  
ANNAPOLIS, MARYLAND 21401  
BUSINESS PH. (OFFICE) 410.849.3211

1C. ENGINEER:  
DAVID J. WALLACE P.E.  
701 CHESAPEAKE AVENUE  
ANNAPOLIS, MARYLAND 21403  
BUSINESS PH. 410.544.1225

2. GENERAL DESCRIPTION OF PREDOMINATE SOIL TYPE:  
CxA - Cumberstone-Mattapex complex, 0 to 2 percent Slopes  
Hydrologic Soil Group Rating - D.

3. EXISTING ZONING IS OPEN SPACE AND RESIDENTIAL LOW DENSITY.

4. PROPERTY CAN BE FOUND AT TAX MAP 5295, GRID H8, H9, J8 & J9, PARCEL 0176/0400.

5. Total area of site is: 11,562,082.34 square feet = 265.89 Acres  
 Total area disturbed is: 99,914.74 square feet = 2.29 Acres=

6. Total cut on site: 196.07 CU YDS Total fill: 1,295.03 CU YDS

Note: Cut and Fill quantities provided do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.

**MATERIAL DISPOSAL REQUIREMENTS**

1. TREES, SHRUBS, AND BRANCHES DISTURBED WITHIN THE APPROVED LIMIT OF DISTURBANCE SHALL BE USED AS ORGANIC MATERIAL WITHIN THE REGENERATIVE STREAM CHANNEL.

2. SOIL EXCAVATED SHALL BE REUSED AS COMMON BORROW GIVEN THE MINIMUM 3FT SAND/WOOD CHIP MIX DEPTH IS ACHIEVED. EXCESS SOIL SHALL BE STORED IN THE STOCKPILE AREA UNTIL USED ON-SITE.

3. STOCKPILE NOT TO EXCEED 15' IN HEIGHT OR HAVE SIDE SLOPES STEEPER THAN 2:1

**SEQUENCE OF CONSTRUCTION**

THE BELOW NOTED TIMES ARE APPROXIMATE AND REPRESENT WORKING DAYS. TASKS #4, #5, #6, AND #7 MAY BE WORKED ON SIMULTANEOUSLY. THE SEQUENCE MAY BE ALTERED WITH APPROVAL FROM THE ENGINEER AND ANNE ARUNDEL SEDIMENT CONTROL INSPECTOR.

- STAKE OUT, FLAG, OR OTHERWISE DELINEATE THE LIMIT OF DISTURBANCE. (1 DAY)
- NOTIFY ANNE ARUNDEL SOIL CONSERVATION DISTRICT AT LEAST 48 HOURS BEFORE COMMENCING WORK. WORK MAY NOT COMMENCE UNTIL THE PERMITTEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT TO REVIEW THE APPROVED PLANS. (1 DAY)
- INSTALL STABILIZED CONSTRUCTION ENTRANCE(S) AND ANY OTHER PERIMETER SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON THE APPROVED PLANS. (1 DAY)
- AFTER OBTAINING APPROVAL FROM THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT, COMMENCE ANY NECESSARY CLEARING & GRUBBING OR OTHER SITE PREPARATION WORK AS SHOWN ON PLAN. ONLY CLEAR THAT AREA WHICH CAN BE STABILIZED IN ONE DAY (10 DAYS)
- CONSTRUCT STREAM RESTORATION IN ACCORDANCE WITH THE APPROVED PLANS. (20 DAYS)
- STABILIZE ALL REMAINING DISTURBED AREAS ACCORDING TO 2019 STABILIZATION FOR STREAM RESTORATION ACTIVITY AND VEGETATIVE ESTABLISHMENT GUIDELINES AND PREPARE FOR PLANTING. (2 DAYS)
- PLANT SITE ACCORDING TO PLANTING PLAN AND SPECIFICATIONS. (3 DAYS)
- RESTORE REMAINING AREAS TEMPORARILY DISTURBED BY CONSTRUCTION TRAFFIC (ROADS, FIELDS, ETC) TO PRE-CONSTRUCTION CONDITIONS. (2 DAYS)
- ONCE THE SITE IS 95% STABILIZED AND WITH APPROVAL OF THE ANNE ARUNDEL SOIL CONSERVATION DISTRICT, REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL DEVICES. (1 DAY)

TOTAL PROJECT DURATION: 41 DAYS

PROJECT OUTCOMES	
STREAM RESTORATION	598 LINEAR FEET
WETLAND CREATION / RESTORATION	82,093.0 SF / 1.88 ACRES
SHALLOW AQUATIC BEDS	38,738.5 SF / 0.89 ACRES
NATIVE PLANTINGS	3,400 PLANTS

**NOTE TO CONTRACTOR:**  
EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.

PERMITS	PERMITS #
ANNE ARUNDEL COUNTY SOIL CONSERVATION DISTRICT	XXXX
MDE NON-TIDAL WETLANDS & WATERWAY CONSTRUCTION	NA-NON-JURISDICTIONAL
USACE	

APPROVALS	
JANUARY 26, 2024	

**UNDERWOOD & ASSOCIATES**  
 LANDSCAPE ARCHITECTURE • ECOLOGICAL RESTORATION  
 A DESIGN/BUILD Co.  
 1753 EBLING TRAIL • ANNAPOLIS, MD 21401  
 TEL: 410.849.3211 FAX: 410.849.2138

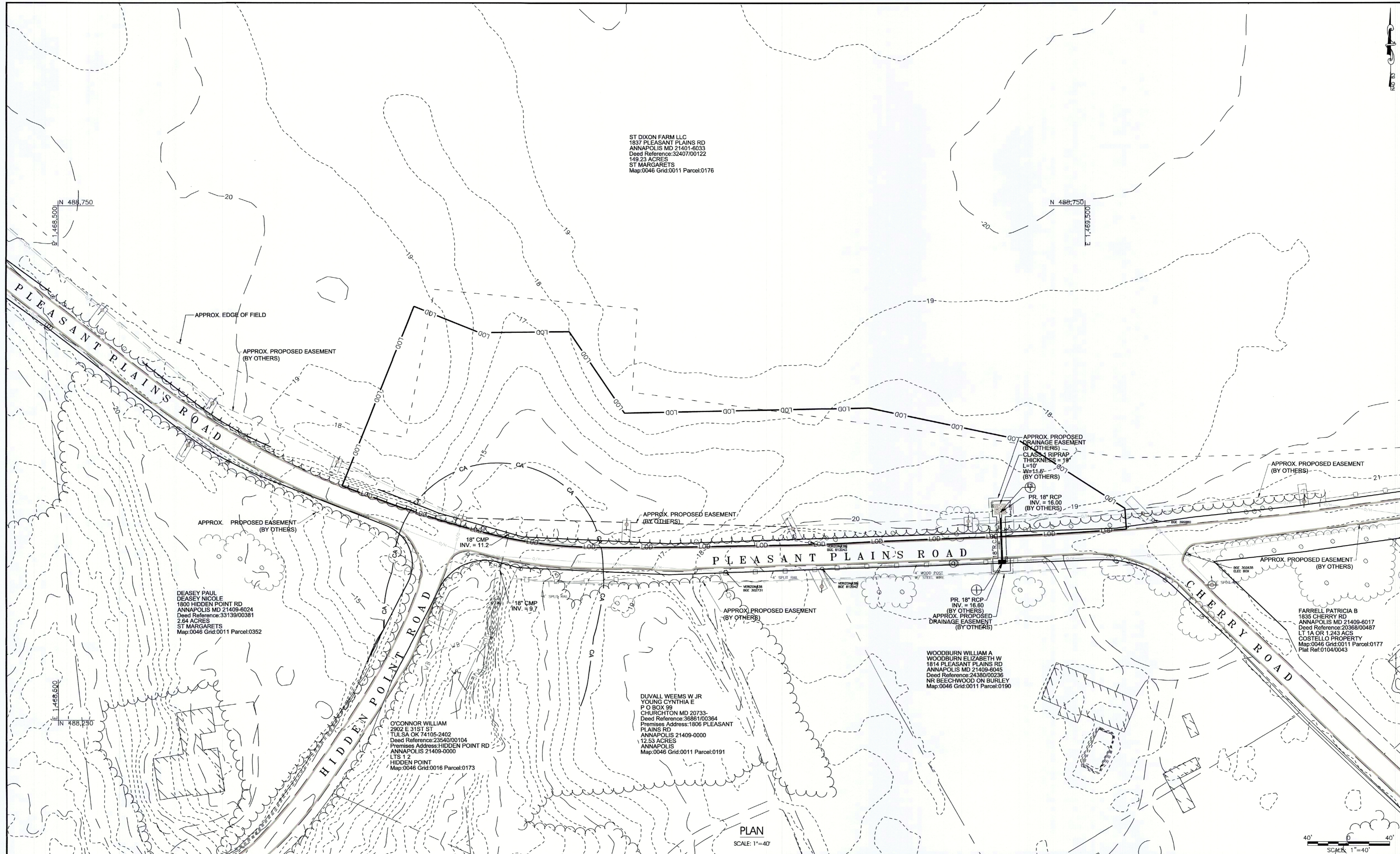
DAVID J. WALLACE, P.E.  
 PROFESSIONAL CERTIFICATION  
 I, DAVID J. WALLACE, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 11466 EXPIRATION DATE: MAY 28, 2025.

DAVID J. WALLACE, P.E.  
 701 CHESAPEAKE AVENUE  
 ANNAPOLIS, MARYLAND 21403  
 BUSINESS PH. 410.544.1225

<p>Scale AS SHOWN</p> <p>Drawn By J.K./B.L./A.T.</p> <p>Approved By K.B.</p> <p>Sheet No. 1 OF 11</p> <p>Project No. 23-046</p> <p>Proposal No. ...</p>	<p><b>TITLE SHEET</b></p> <p><b>HIDDEN POINT ROAD LINED WATERWAY OR OUTLET</b></p> <p>PLEASANT PLAINS ROAD ANNAPOLIS, MARYLAND 21409        MAP 5295, GRID H-8, H-9, J-8 &amp; J-9, PARCEL 0400        FORMERLY MAP 0046, GRID 0011, PARCEL 0176        FORMERLY MAP 0046, GRID 0005, PARCEL 0400        3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY</p>
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The techniques used in this design are covered by US Patents #11,047,724 & #11,047,725, owned by Underwood & Associates, Inc. CADD File: S:\006-Projects\Central Sod Farm Restoration (Dudley Dixon - Hollywood)\04-CADD\Drawings\Hidden Point\01 - TITLE SHEET.dwg, 2024 - 5:00pm





ST DIXON FARM LLC  
 1837 PLEASANT PLAINS RD  
 ANNAPOLIS MD 21401-6033  
 Deed Reference:32407/00122  
 149.23 ACRES  
 ST MARGARETS  
 Map:0046 Grid:0011 Parcel:0176

DEASEY PAUL  
 DEASEY NICOLE  
 1800 HIDDEN POINT RD  
 ANNAPOLIS MD 21408-6024  
 Deed Reference:33139/00381  
 2.64 ACRES  
 ST MARGARETS  
 Map:0046 Grid:0011 Parcel:0352

O'CONNOR WILLIAM  
 2902 E 31ST ST  
 TULSA OK 74105-2402  
 Deed Reference:23540/00104  
 Premises Address:HIDDEN POINT RD  
 ANNAPOLIS 21409-0000  
 LTS 1.2  
 HIDDEN POINT  
 Map:0046 Grid:0016 Parcel:0173

DUVALL WEEMS W JR  
 YOUNG CYNTHIA E  
 P O BOX 99  
 CHURCHTON MD 20733-  
 Deed Reference:36861/00364  
 Premises Address:1806 PLEASANT  
 PLAINS RD  
 ANNAPOLIS 21409-0000  
 12.53 ACRES  
 ANNAPOLIS  
 Map:0046 Grid:0011 Parcel:0191

WOODBURN WILLIAM A  
 WOODBURN ELIZABETH W  
 1814 PLEASANT PLAINS RD  
 ANNAPOLIS MD 21409-6045  
 Deed Reference:24380/00236  
 NR BEECHWOOD ON BURLLEY  
 Map:0046 Grid:0011 Parcel:0190

FARRELL PATRICIA B  
 1835 CHERRY RD  
 ANNAPOLIS MD 21409-6017  
 Deed Reference:20368/00487  
 LT 1A OR 1.243 ACS  
 COSTELLO PROPERTY  
 Map:0046 Grid:0011 Parcel:0177  
 Plat Ref:0104/0043

PLAN  
 SCALE: 1"=40'

SCALE: 1"=40'

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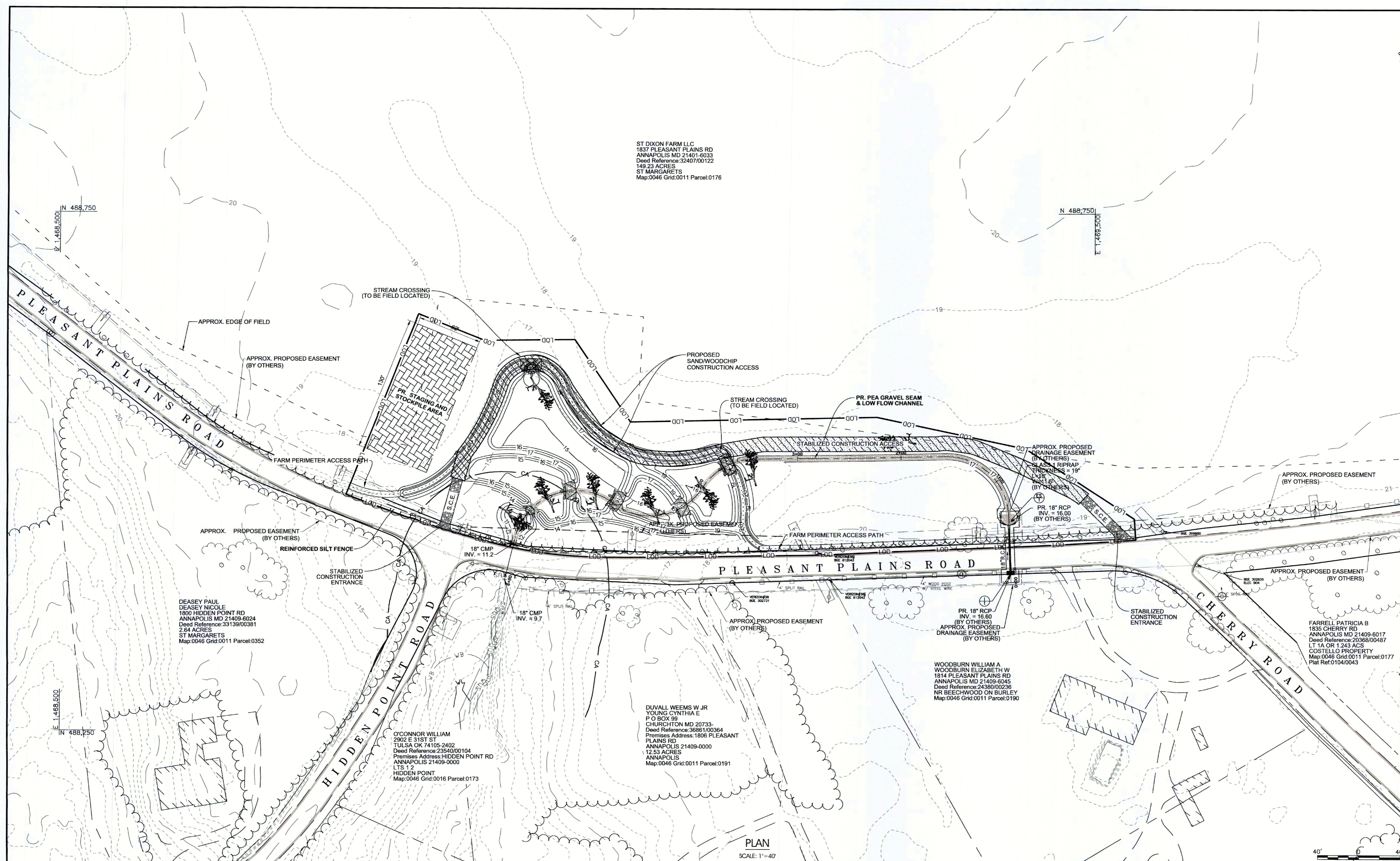
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JANUARY 26, 2024	
Scale	AS SHOWN
Drawn By	J.K./B.L./A.T.
Approved By	K.B.
Sheet No.	3 Of 11
Project No.	23-046
Proposal No.	...
<b>EXISTING CONDITION</b>	
<b>HIDDEN POINT ROAD LINED WATERWAY OR OUTLET</b>	
PLEASANT PLAINS ROAD ANNAPOLIS, MARYLAND 21409 MAP 5295, GRID H-8, H-9, J-8 & J-9, PARCEL 0400 FORMERLY MAP 0046, GRID 0005, PARCEL 0400 3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY	

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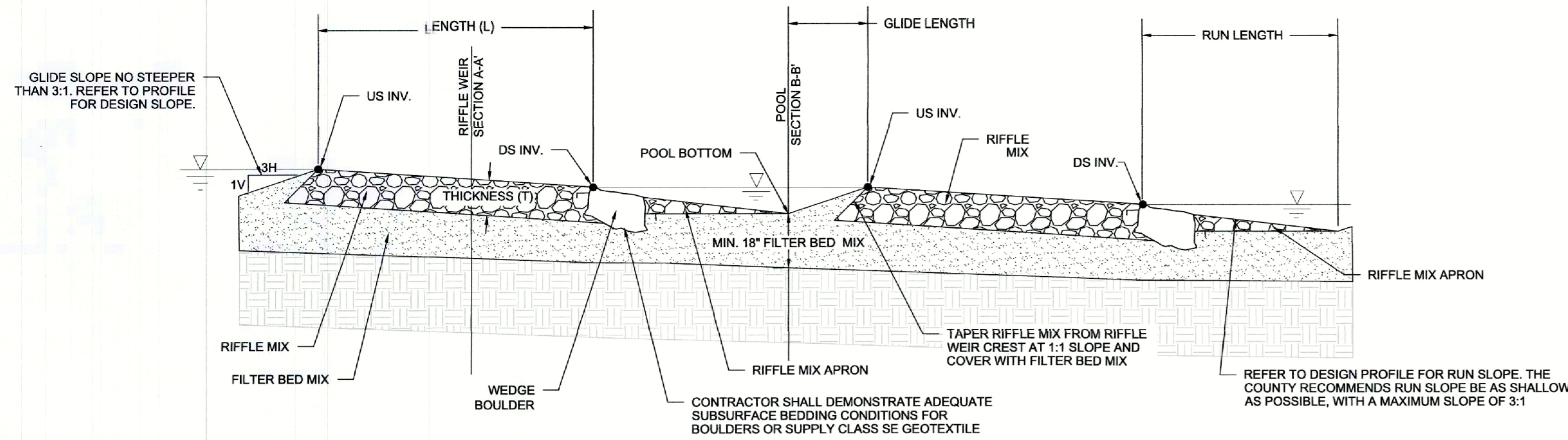
ST DIXON FARM LLC  
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 ANNAPOLIS MD 21401-6033  
 Deed Reference: 32407/00122  
 149.23 ACRES  
 ST MARGARETS  
 Map: 0046 Grid: 0011 Parcel: 0176



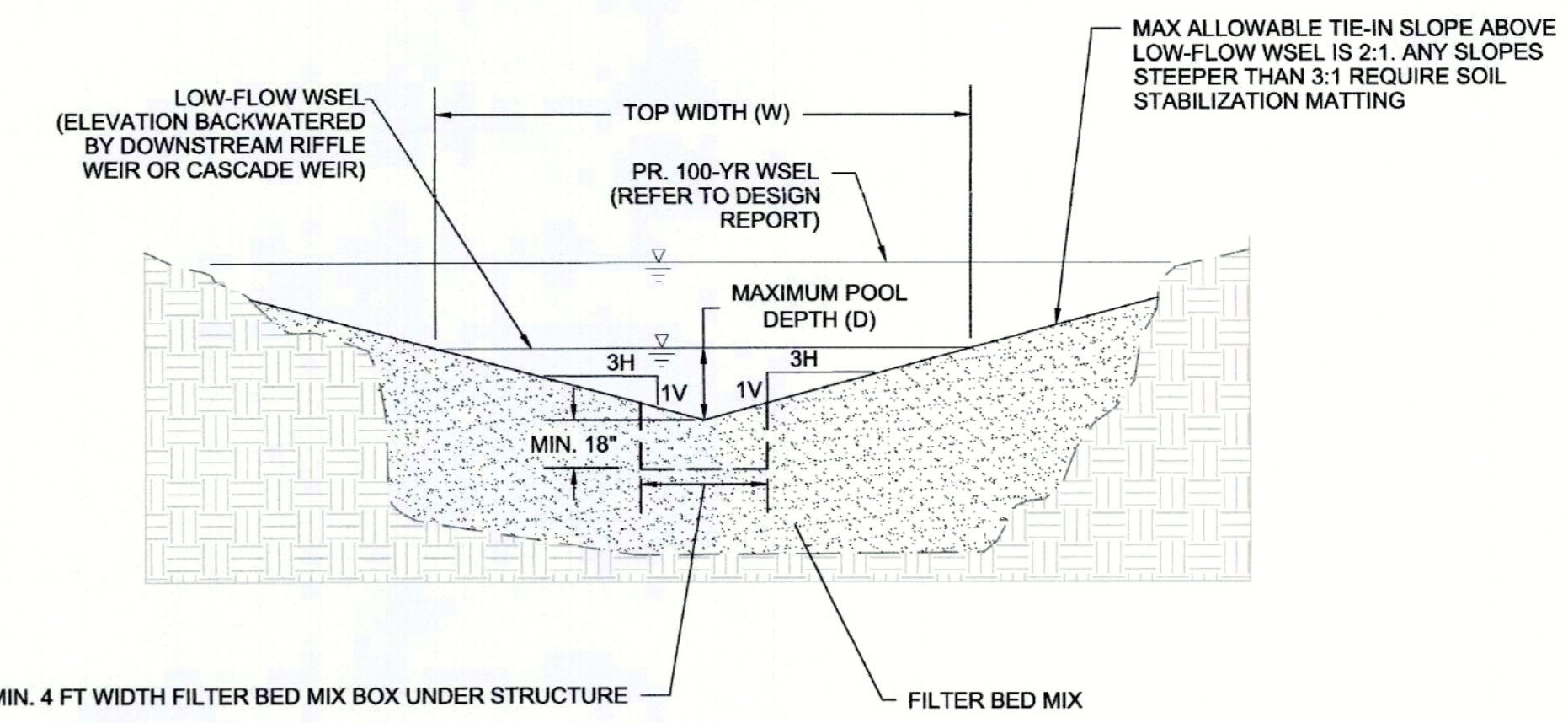
PLAN  
 SCALE: 1" = 40'

SCALE: 1" = 40'

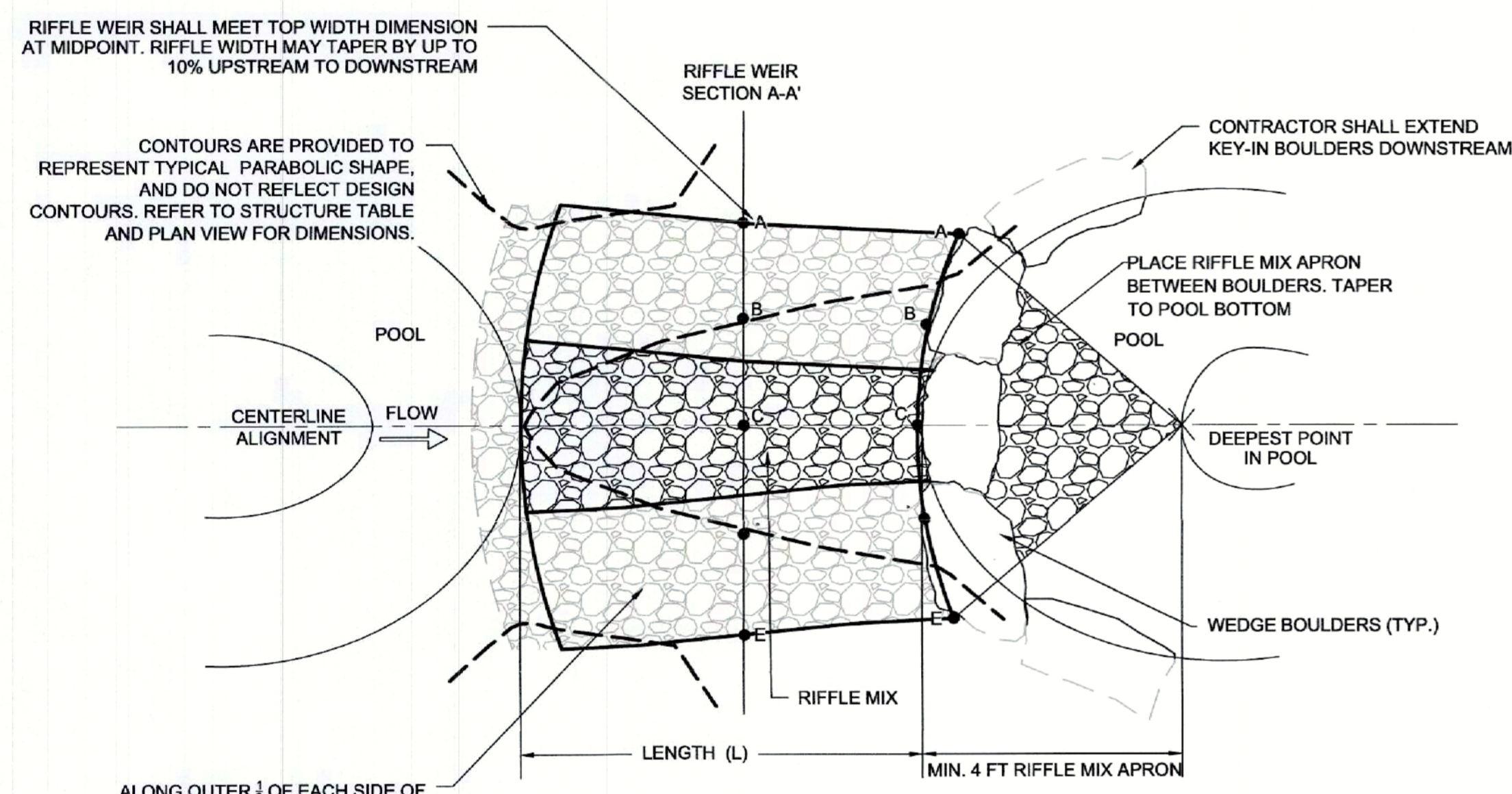
<p><b>UNDERWOOD &amp; ASSOCIATES</b>          LANDSCAPE ARCHITECTURE • ECOLOGICAL RESTORATION          A DESIGN/BUILD Co.          1753 EBLING TRAIL • ANNAPOLIS, MD 21401          Tel. 410-849-3211 Fax. 410-849-2158</p>	<p>DAVID J. WALLACE, P.E.          PROFESSIONAL CERTIFICATION          I, DAVID J. WALLACE, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 11466 EXPIRATION DATE: MAY 28, 2025.</p> <p>DAVID J. WALLACE, P.E.          701 CHESAPEAKE AVENUE          ANNAPOLIS, MARYLAND 21403          BUSINESS PH. 410.544.1225</p>		<p>Scale AS SHOWN          Drawn By J.K./B.L./A.T.          Approved By K.B.          Sheet No. 4 OF 11          Project No. 23-046          Proposal No. ...</p>	<p><b>PROPOSED CONDITION &amp; SEDIMENT EROSION CONTROL</b>  <b>HIDDEN POINT ROAD LINED WATERWAY OR OUTLET</b>          PLEASANT PLAINS ROAD ANNAPOLIS, MARYLAND 21409          MAP 5295, GRID H-8, H-9, J-8 &amp; J-9, PARCEL 0400          FORMERLY MAP 0046, GRID 0005, PARCEL 0400          3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY</p>
	<p>JANUARY 26, 2024</p>			



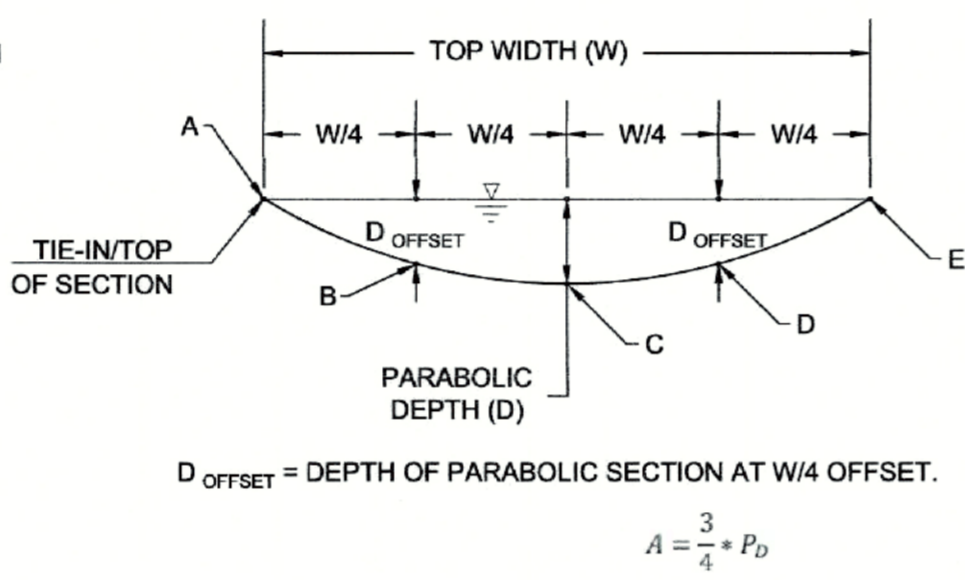
**RIFFLE WEIR CENTERLINE PROFILE**  
NOT TO SCALE



**POOL TYPICAL SECTION B-B'**  
NOT TO SCALE



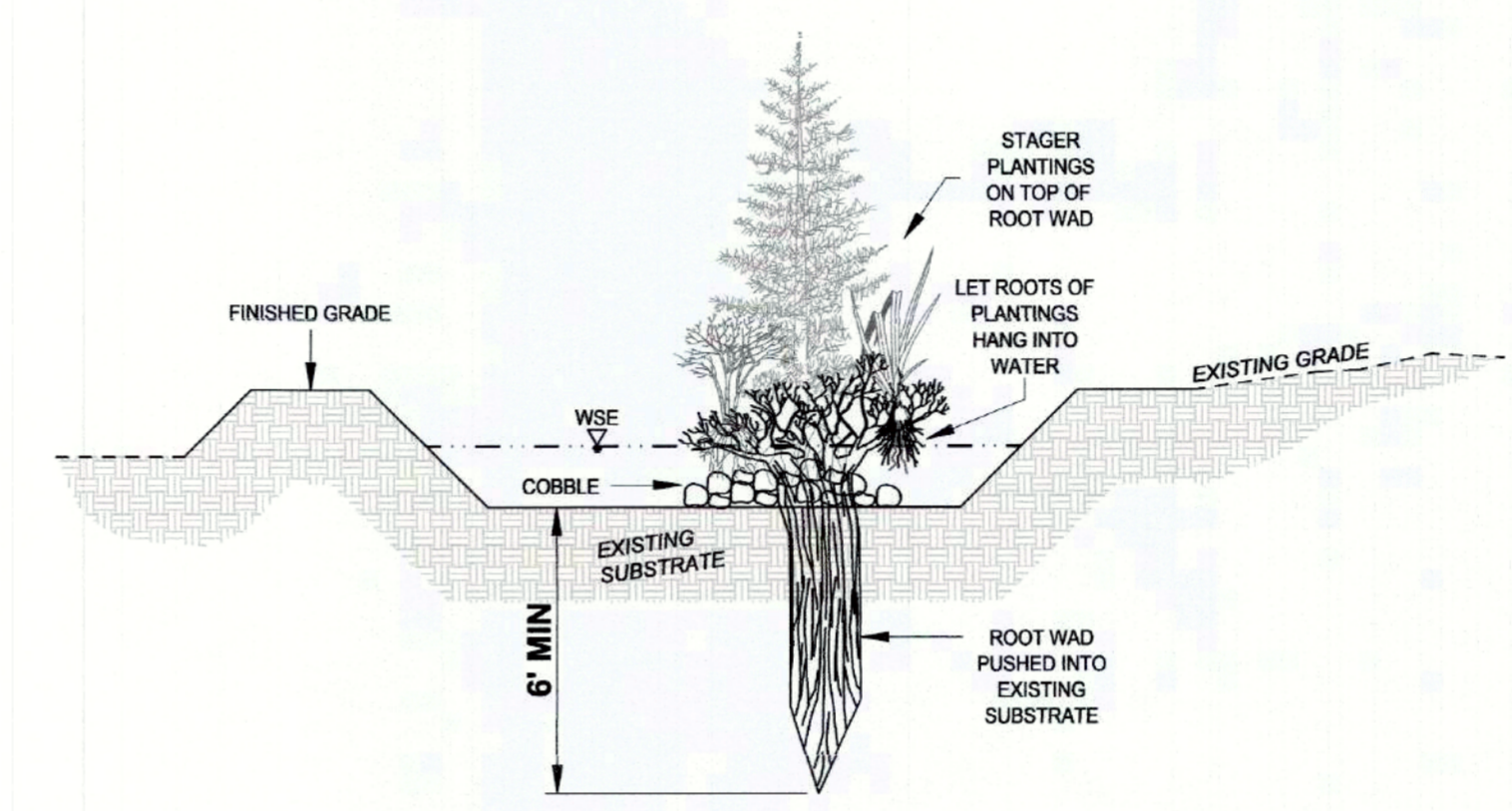
**RIFFLE WEIR PLAN VIEW**  
NOT TO SCALE



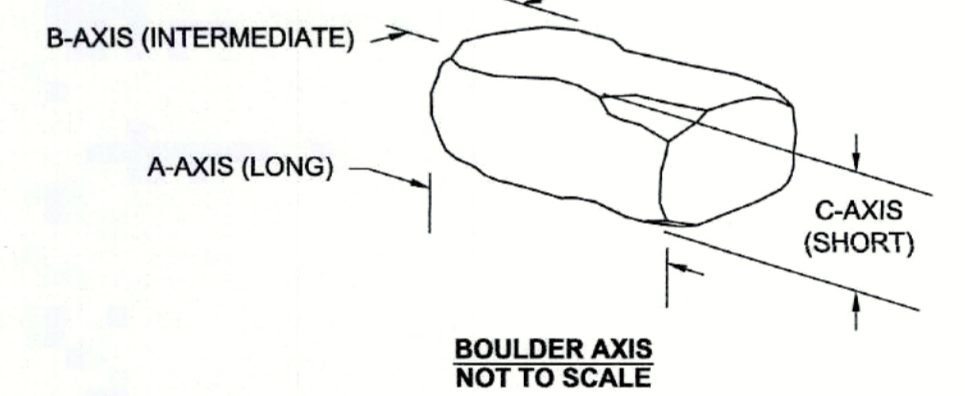
Where:  
A = Depth at  $T_w/4$  offset from channel line, ft  
 $P_D$  = Parabolic depth of full section, ft (Given)

PARABOLIC SECTION DIMENSIONS TABLE (TYPICAL)			
	A/E (FT)	B/D (FT)	C
DEPTH	0	1.5	2

**PARABOLIC SECTION DIMENSIONS**  
NOT TO SCALE



**ROOT WAD DETAIL**  
NOT TO SCALE



**BOULDER AXIS**  
NOT TO SCALE

**STANDARD SPSC STABILIZATION NOTES**

**PERMANENT STABILIZATION NOTES (INCLUDE ONE OF THE FOLLOWING):**  
PERMANENT STABILIZATION FOR AN AREA OF EARTH DISTURBANCE OF A SPSC SHALL BE CONSIDERED ACHIEVED WHEN THE AREA IS COVERED WITH 2 TO 4 INCHES OF COMPOST (APPLIED OVER WOODCHIPS TRACKED INTO SOIL AND A (NATIVE PLANTS) PLANTING PLAN HAS BEEN IMPLEMENTED, REGARDLESS OF SOIL TREATMENT.

PERMANENT STABILIZATION FOR AN AREA OF EARTH DISTURBANCE OF A SPSC SHALL BE CONSIDERED ACHIEVED WHEN THE BANKS AND FLOODPLAIN ARE COVERED WITH FULLY BIODEGRADABLE STABILIZATION MATTING INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND A (NATIVE PLANTS) PLANTING PLAN HAS BEEN IMPLEMENTED.

ALL DISTURBED AREAS SHALL RECEIVE HYDROSEEDING OR FLEXIBLE GROWTH MEDIUM (FGM) AFTER THE ESTABLISHMENT OF FINAL GRADES AND MICROTOPOGRAPHY (IF APPLICABLE) IN ACCORDANCE WITH THE PROJECT LANDSCAPING PLANS.

	BOULDER DIMENSION (IN)		
	A-AXIS	B-AXIS	C-AXIS
WEIR AND CASCADE (SURFACE BOULDER)	24-36"	24-36"	12-24"
FOOTER BOULDERS (SUBSURFACE)	24-36"	24-36"	24-36"

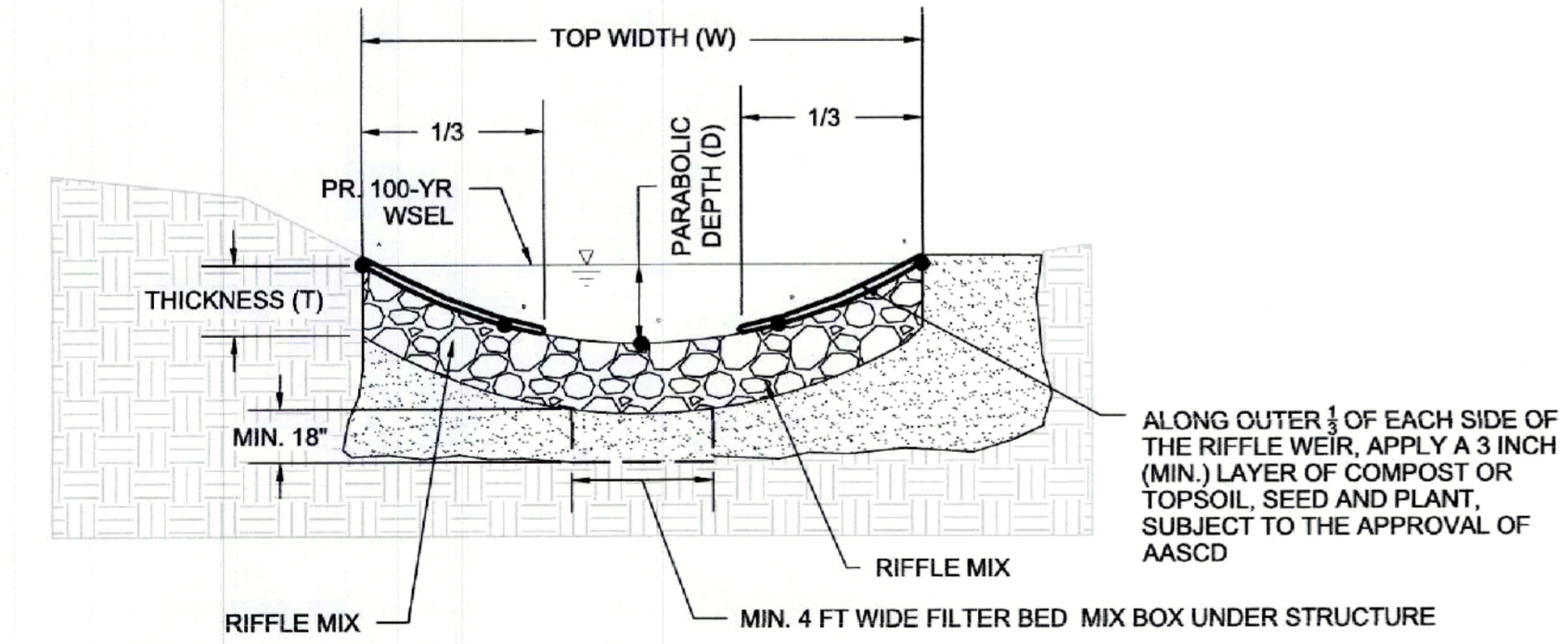
- NOTES:**
- THE MEDIAN A-AXIS DIMENSION AVERAGED ACROSS THE FULL STRUCTURE SHALL EQUAL A MINIMUM OF 30".
  - BOULDERS SHALL HAVE MINIMUM UNIT WEIGHT OF 165 LBS/CF.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT MATERIAL THAT IS APPROPRIATELY SIZED TO ALLOW FOR ECONOMICAL CONSTRUCTION OF CASCADE STRUCTURES MEETING THE DESIGN DIMENSIONS DESCRIBED IN THIS PLAN.
- o TABULAR IN SHAPE

**STANDARD SPSC STABILIZATION NOTES (AASCD)**

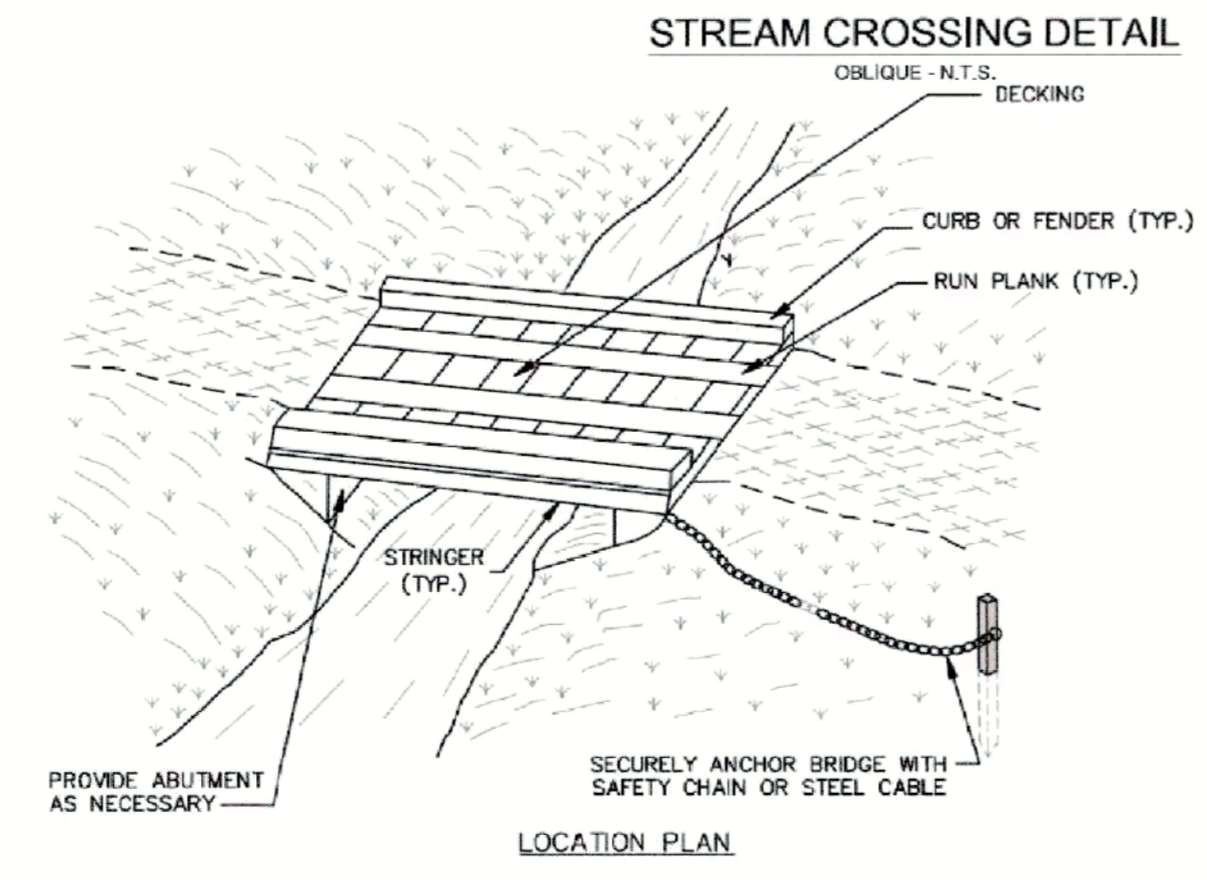
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**RIFFLE WEIR TYPICAL SECTION A-A'**  
NOT TO SCALE



**LOCATION PLAN**

RIFFLE MIX GRADATION TABLE			
D50 MEDIAN STONE SIZE (INCHES)	% OF MATERIAL IN RELATIVE SIZE TO TYPICAL STONE	TYPICAL STONE EQUIVALENT DIAMETER (INCHES)	TYPICAL STONE WEIGHT (POUNDS)*
9	70 - 100	21	440
	50 - 70	18	275
	35 - 50	12	85
	2 - 10	4	3

\*ASSUMED UNIT WEIGHT OF 165 LBS/CF

FILTER BED MIX (BY VOLUME)	
CLEAN SAND	80%
WOODCHIPS	20%

- NOTES:**
- RIFFLE MIX SHALL BE STREAM SILICA COBBLE RANGING FROM ROUNDED TO SUB-ANGULAR SHAPE.
  - ALL RIFFLE MIX SHALL BE WASHED WITH PEA GRAVEL AND CLEAN SAND TO CHOKE VOIDS PRIOR TO FINAL STABILIZATION. THE PEA GRAVEL AND SAND ARE AN INCIDENTAL SUPPLEMENT TO THE RIFFLE MIX FOR NATURALIZATION AND ARE NOT CONSIDERED PART OF THE MIX WHEN CALCULATING D50.

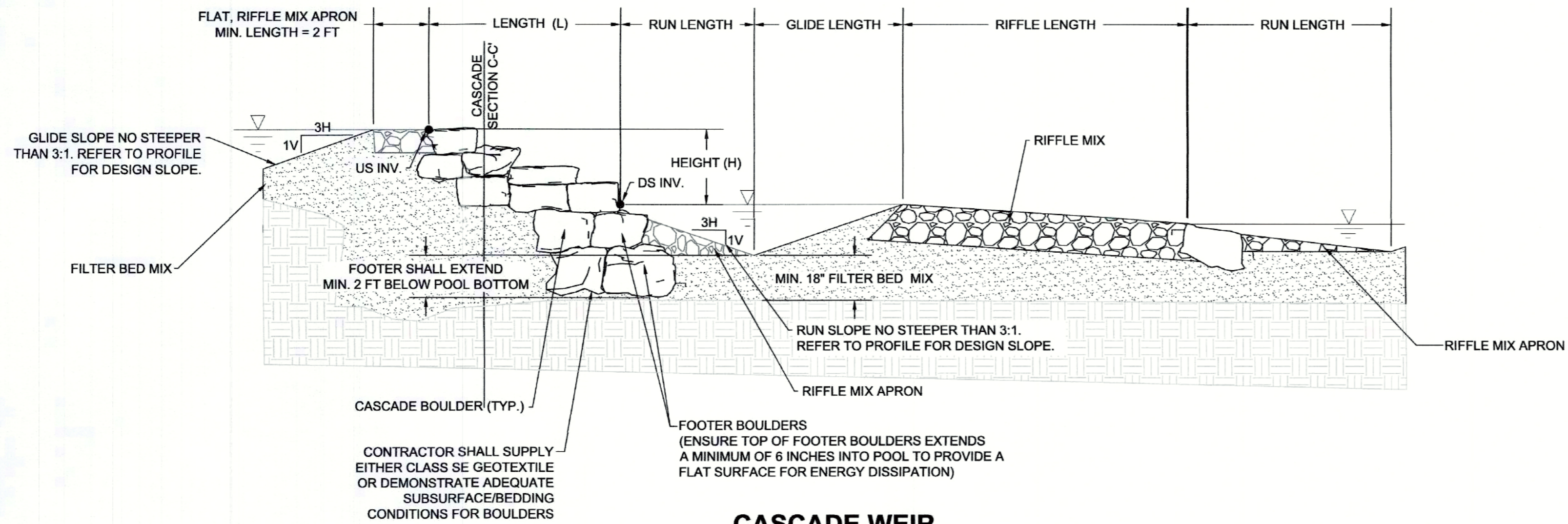
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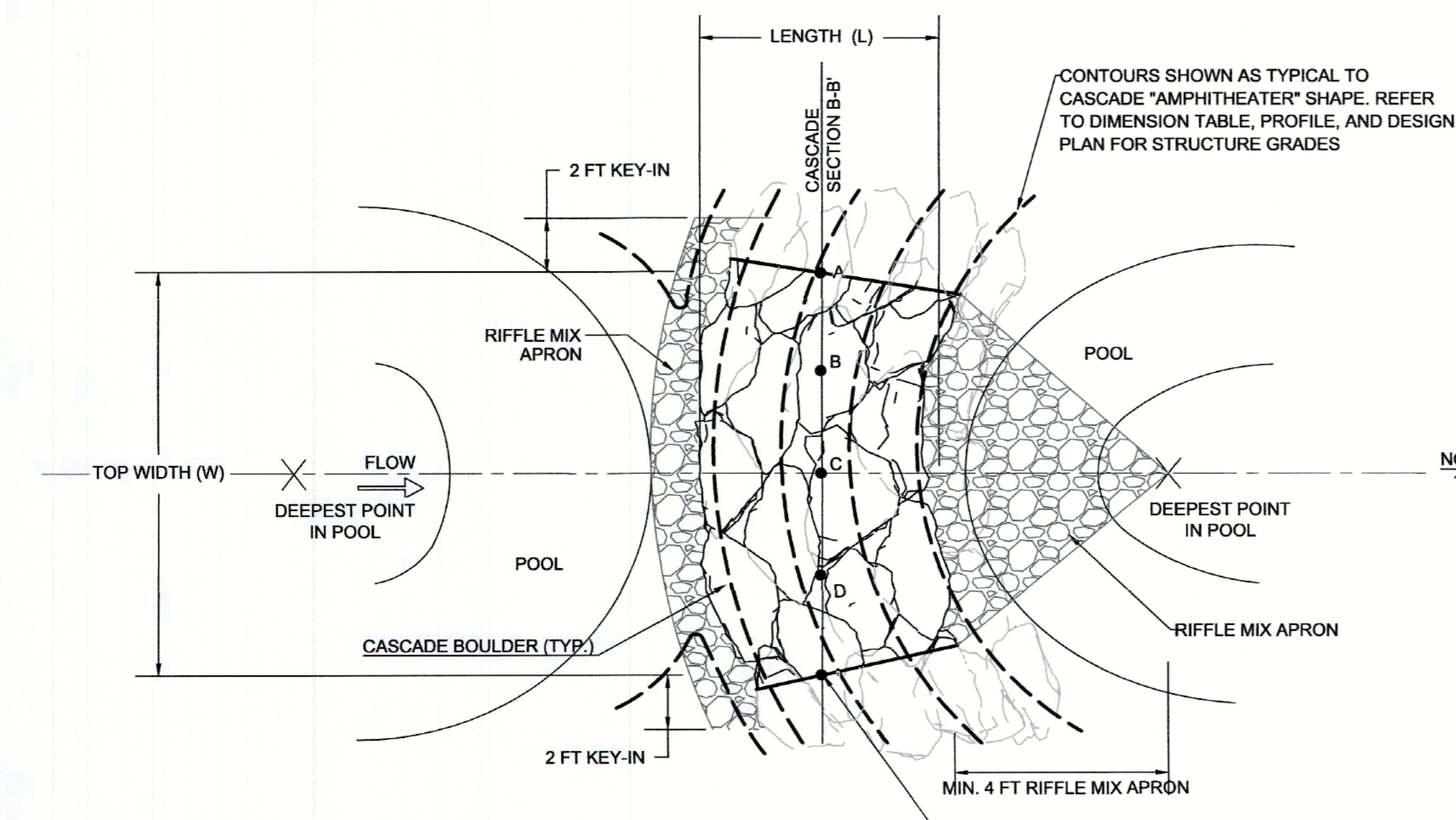


JANUARY 26, 2024

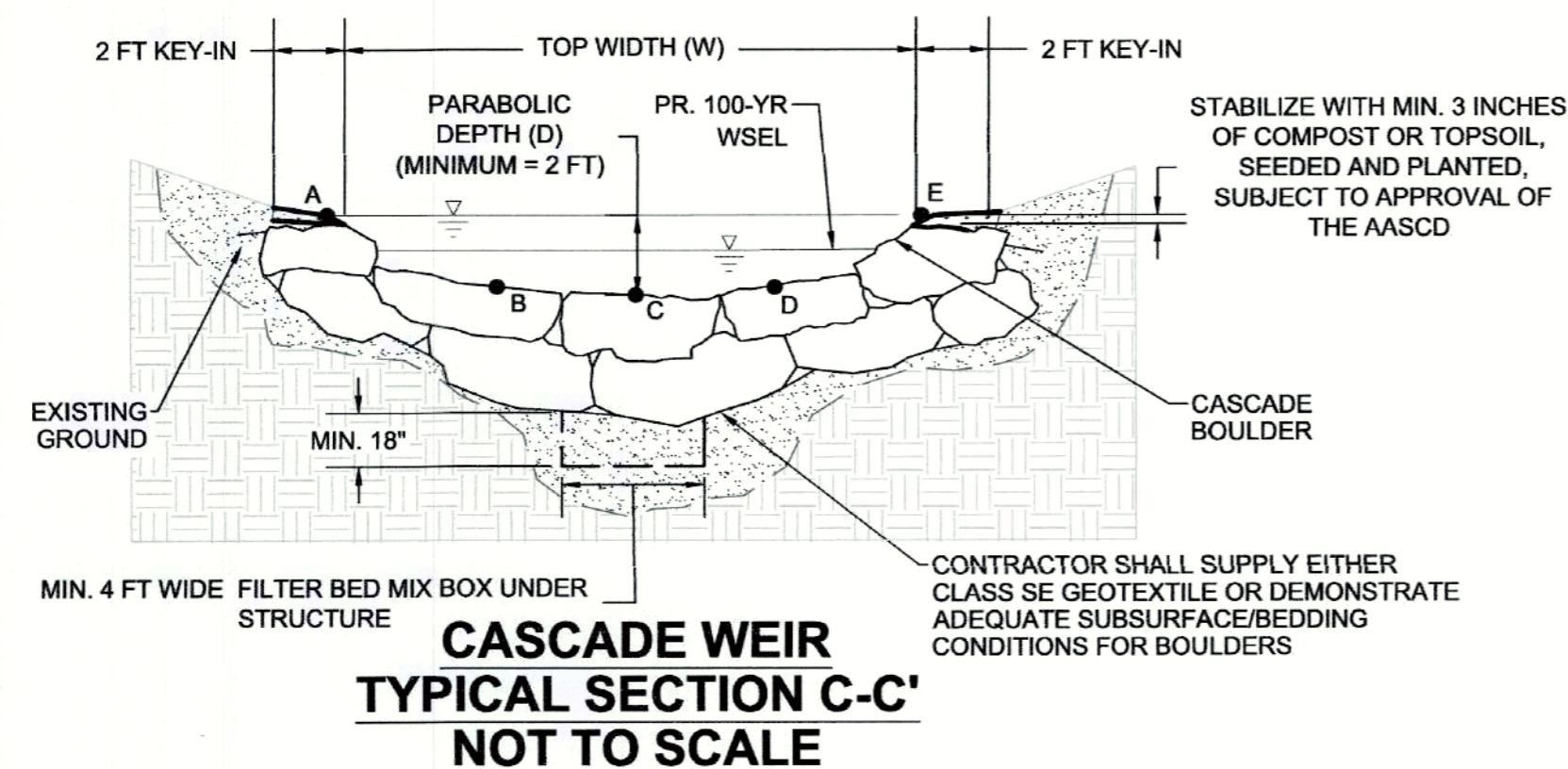
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Drawn By	J.K./B.L./A.T.	
Approved By	K.B.	
Sheet No.	5 OF 11	
Project No.	23-046	
Proposal No.	...	



**CASCADWEIR  
CENTERLINE PROFILE  
NOT TO SCALE**



**CASCADWEIR  
PLANVIEW  
NOT TO SCALE**



**CASCADWEIR  
TYPICAL SECTION C-C'  
NOT TO SCALE**

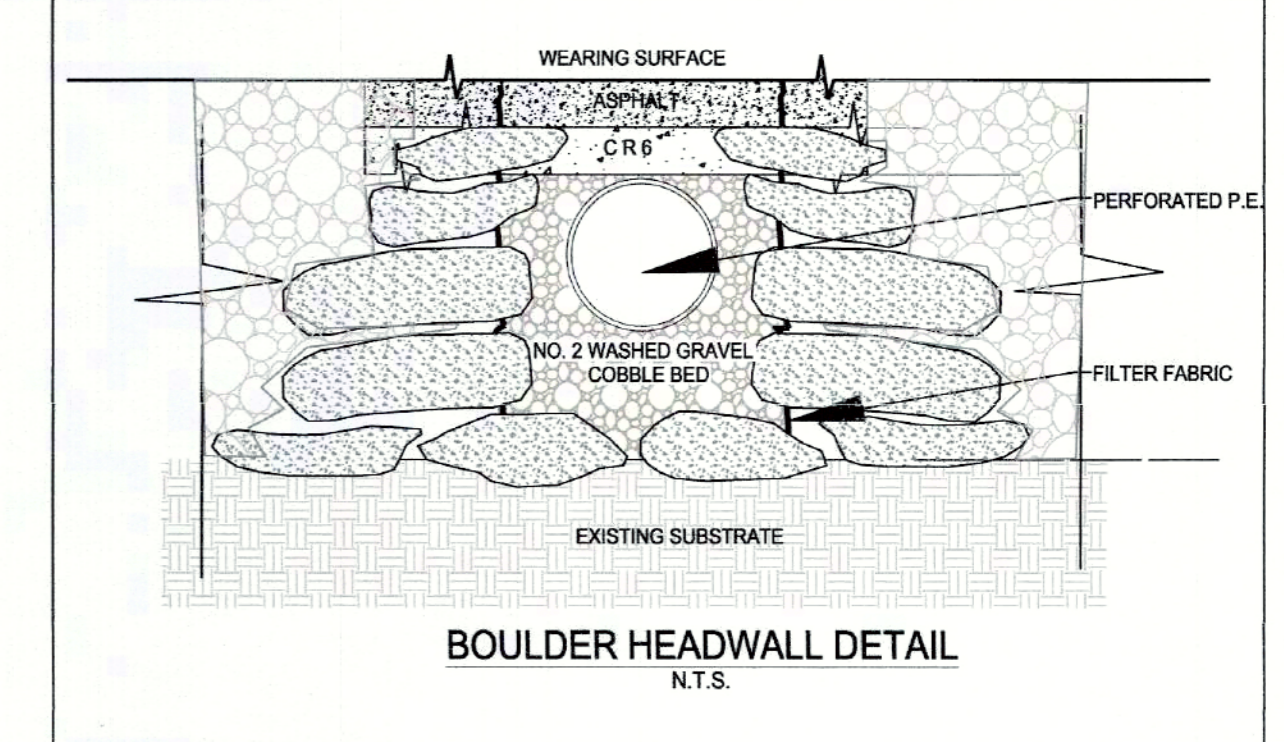
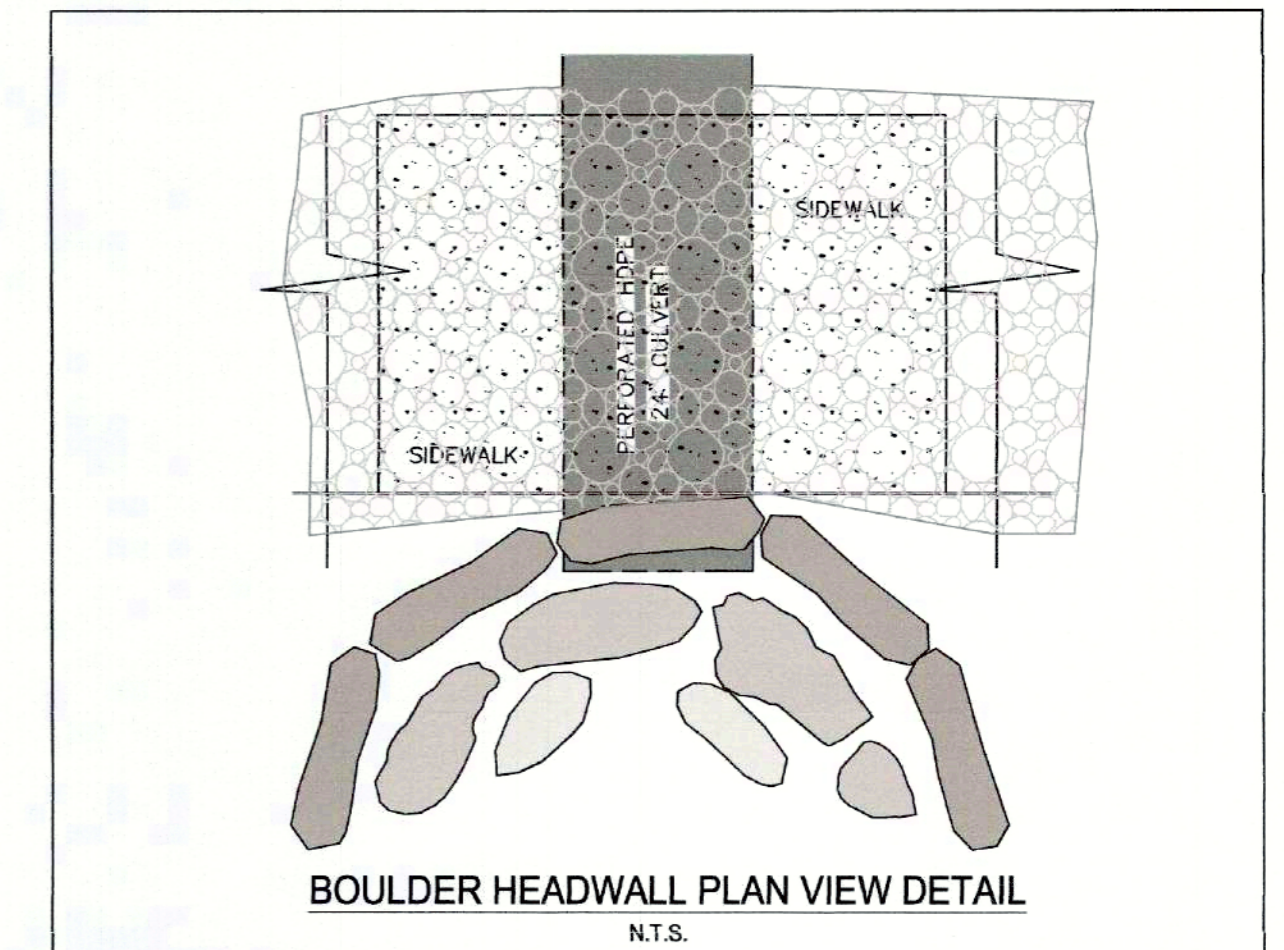
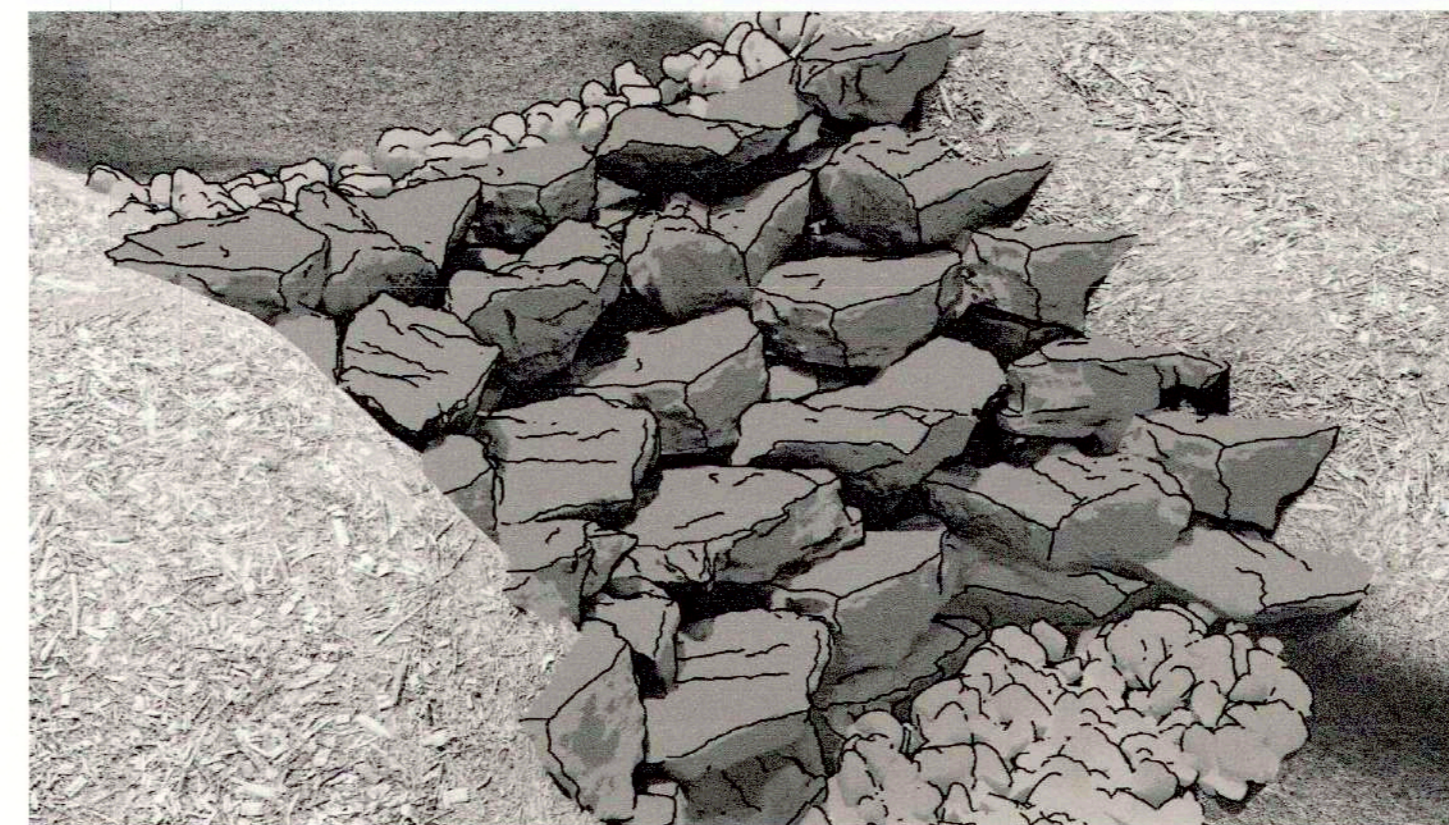
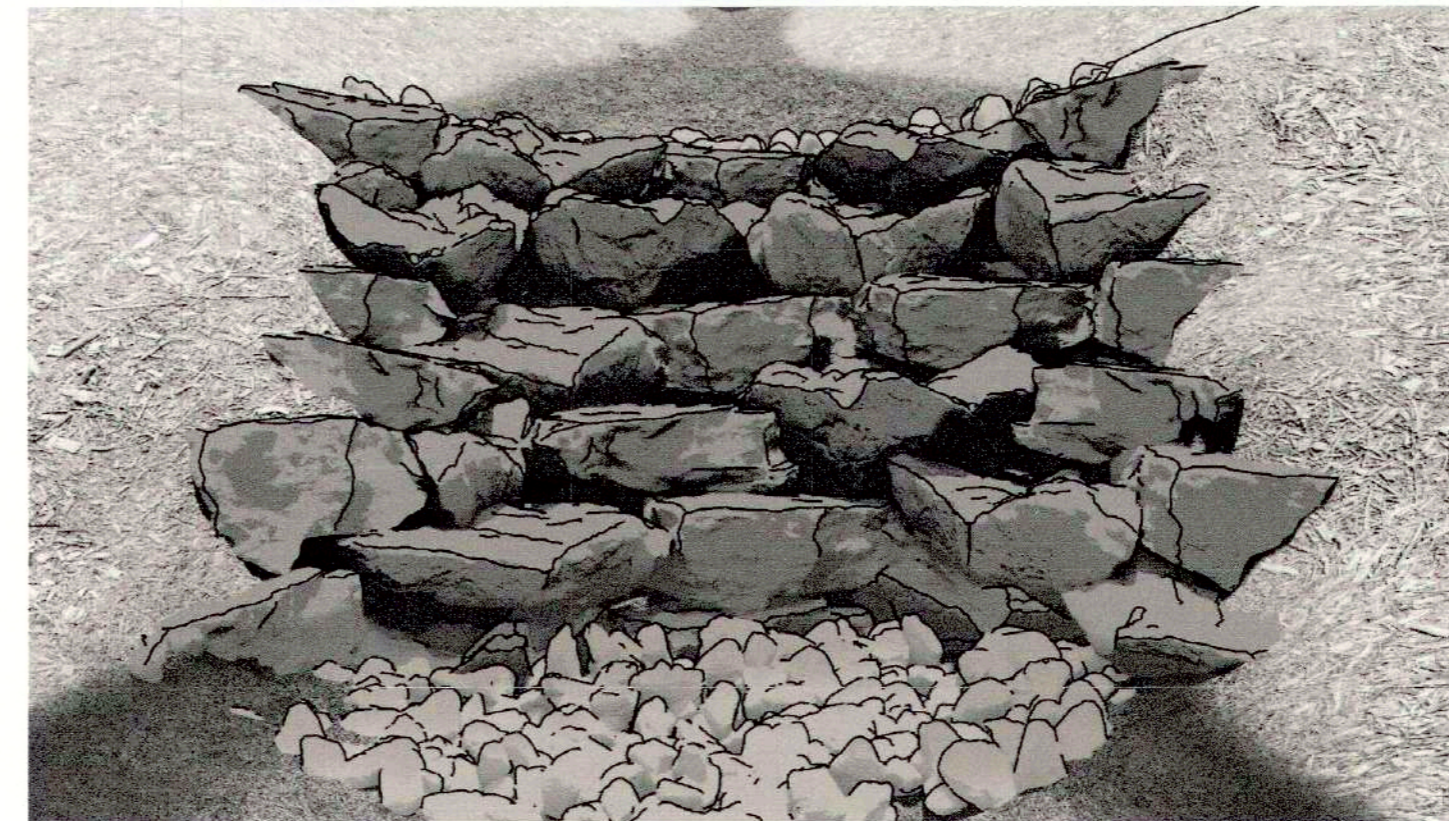
CASCADWEIR DIMENSION TABLE				
Stream	US INVERT	L (FT)	W (FT)	D (FT)
Hidden Point	19	8	20	4

- NOTES:
- ALL POOLS DOWNSTREAM OF CASCADWEIR STRUCTURES SHALL HAVE A MAXIMUM DEPTH EQUAL TO 3.0 FEET.
    - 3 FEET OF DEPTH TO ACCOMMODATE WOOD LOGS, BRUSH, ROOT WAD ETC.
    - PERCENT (%) SLOPE DRIVER IN POOL DIMENSION NOT POOL DEPTH.

- CASCADWEIR NOTES:
- BOULDERS AS DISPLAYED REFLECT VARIABILITY IN STONE DIMENSION WITHIN THE MINIMUM SIZE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING APPROPRIATE MATERIAL TO MEET THE LENGTH, WIDTH, DEPTH, AND SLOPE REQUIREMENTS AS OUTLINED ON THIS SHEET. THE NUMBER OF BOULDERS AND THEIR CONFIGURATION MAY VARY FROM THIS PLAN.
  - ALL BOULDERS SHALL BE PLACED WITH EDGES ALIGNED TIGHTLY TO MINIMIZE VOID SPACE.

**CASCADWEIR RENDERINGS**

THESE IMAGES ARE PROVIDED FOR INFORMATIONAL PURPOSES TO HELP VISUALIZE A CONSTRUCTED CASCADWEIR. THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFIC DETAILS AND DIMENSIONS FOR SITE-SPECIFIC GUIDANCE.

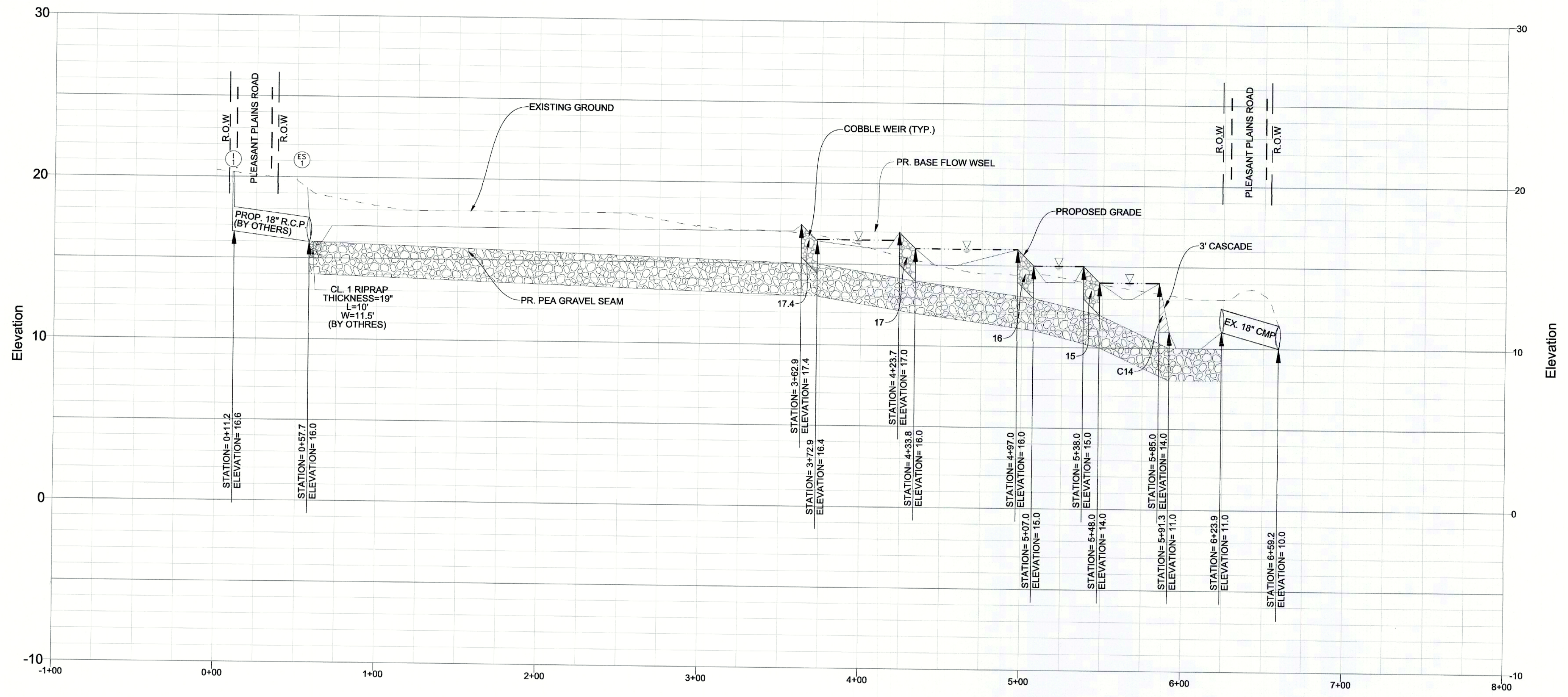


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DAVID J. WALLACE, P.E.  
PROFESSIONAL CERTIFICATION  
I, DAVID J. WALLACE, CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 11466 EXPIRATION DATE: MAY 28, 2025.  
DAVID J. WALLACE, P.E.  
701 CHESAPEAKE AVENUE  
ANNAPOLIS, MARYLAND 21403  
BUSINESS PH. 410.544.1225

JANUARY 26, 2024

Scale	AS SHOWN	<b>STANDARD DETAILS</b> <b>HIDDEN POINT ROAD LINED WATERWAY OR OUTLET</b> PLEASANT PLANIS ROAD ANNAPOLIS, MARYLAND 21409 MAP 5295, GRID H-8, H-9, J-8 & J-9, PARCEL 0400 FORMERLY MAP 0046, GRID 0011, PARCEL 0176 FORMERLY MAP 0046, GRID 0005, PARCEL 0400 3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY
Drawn By	J.K./B.L./A.T.	
Approved By	K.B.	
Sheet No.	6 Of 11	
Project No.	23-046	
Proposal No.	...	



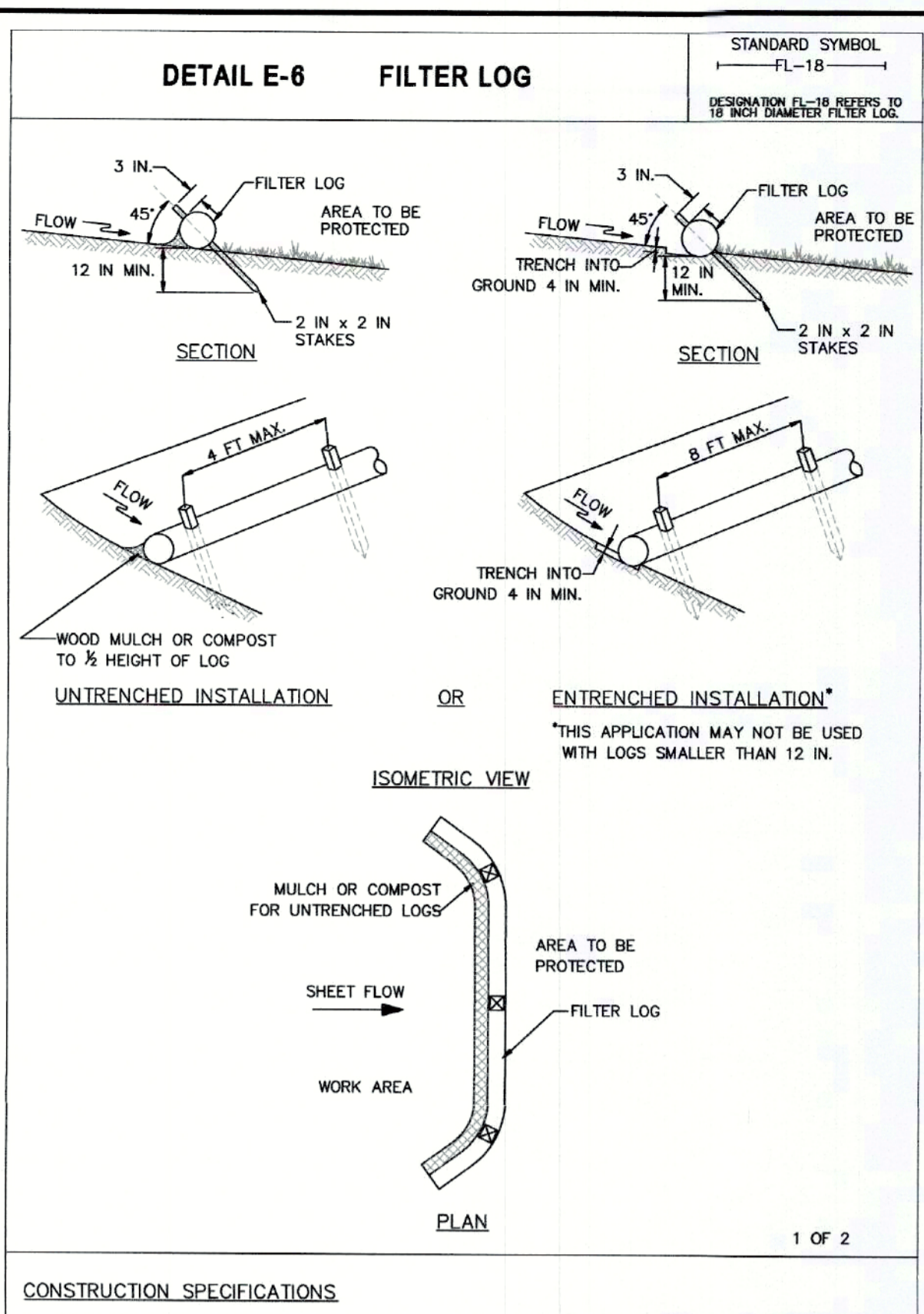
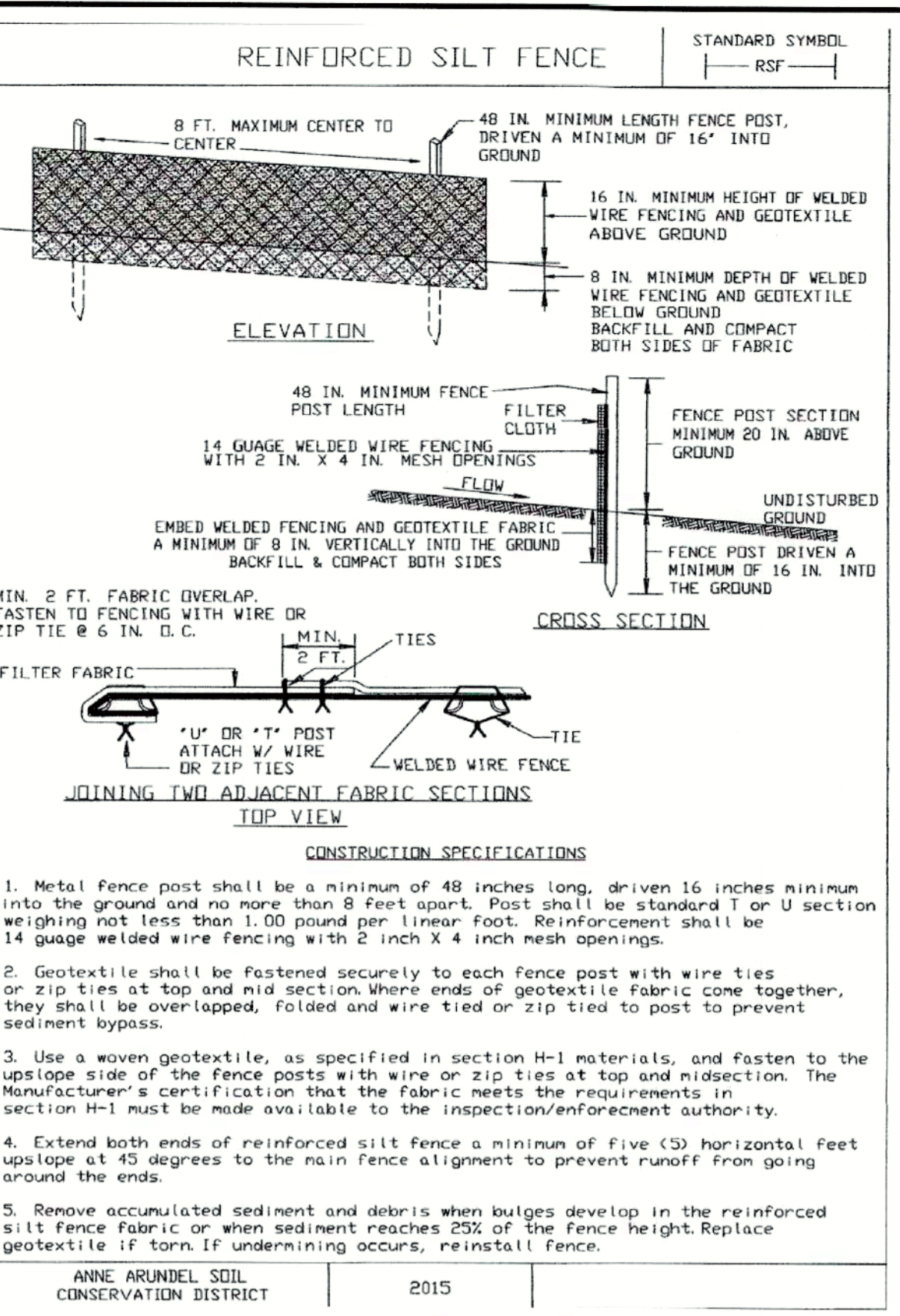
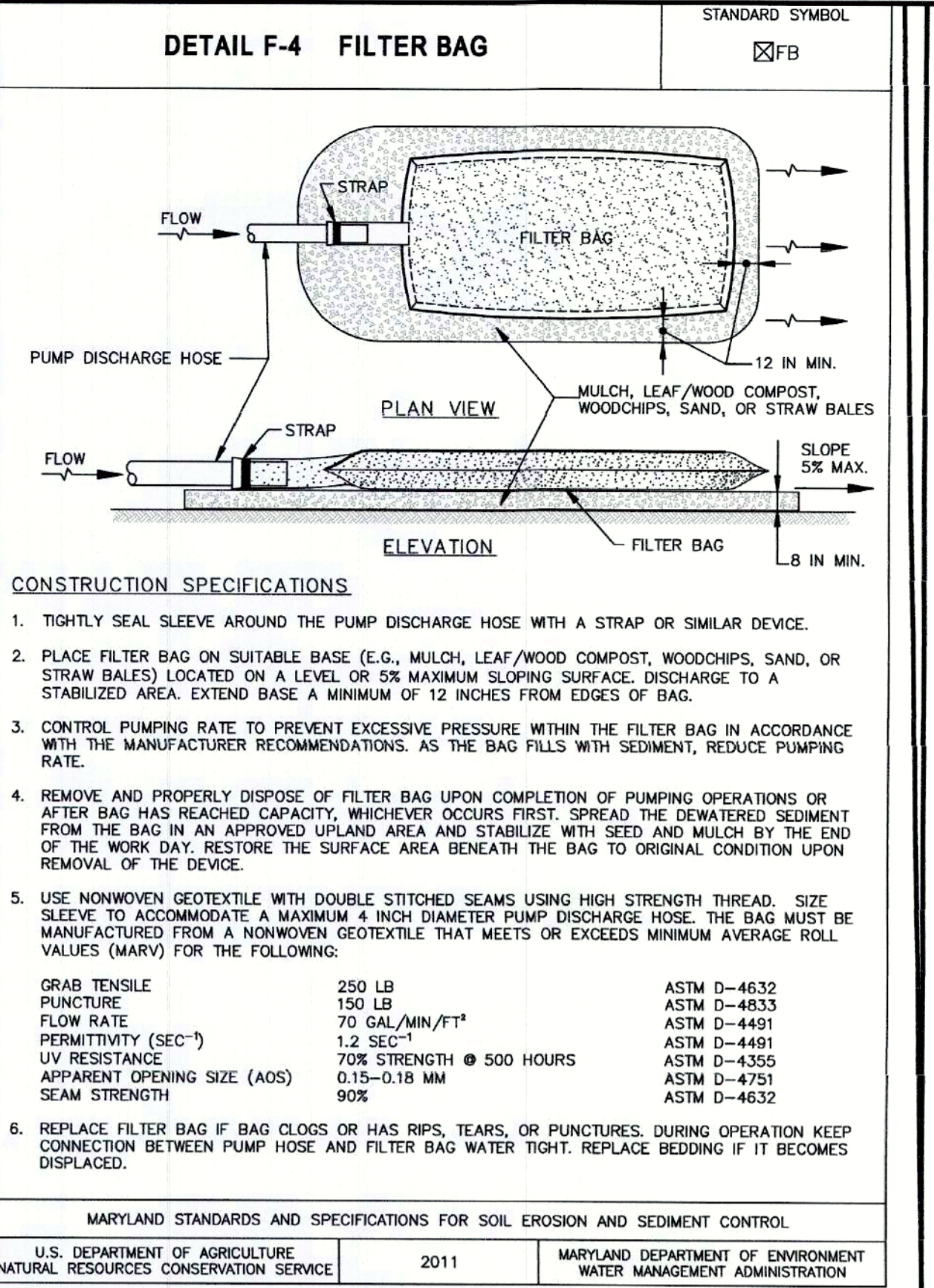
LEGEND	
EXISTING GRADE	---
PROPOSED GRADE	—
EXISTING SD	—
PROPOSED SD	—
MEAN HIGH WATER	—MHW
MEAN LOW WATER	—MLW
PROPOSED BASEFLOW WSEL	▽
PROPOSED 100 YR FLOOD WSEL	▽
PROPOSED COBBLE WEIR	▨
PROPOSED CASCADE	▨

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AS SHOWN		JANUARY 26, 2024	
Scale	AS SHOWN	PROFILES	
Drawn By	J.K./B.L./A.T.	HIDDEN POINT ROAD LINED WATERWAY OR OUTLET	
Approved By	K.B.	PLEASANT PLANINS ROAD ANNAPOLIS, MARYLAND 21409	
Sheet No.	7 OF 11	MAP 5295, GRID H-8, H-9, J-8 & J-9, PARCEL 0400	
Project No.	23-046	FORMERLY MAP 0046, GRID 0011, PARCEL 0178	
Proposal No.	...	FORMERLY MAP 0046, GRID 0005, PARCEL 0400	
		3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY	



### 2018 VEGETATIVE ESTABLISHMENT

Following initial soil disturbances or redistribution, permanent or temporary seeding shall be completed within three calendar days for the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3:1 and seven days for all other disturbed or graded areas on the project site.

**1. Permanent Seeding:**

A. Soil Tests: Lime and fertilizer will be applied per soil tests results for sites greater than 5 acres. Soil tests will be done at completion of initial rough grading or as recommended by the sediment control inspector. Rates and analyses will be provided to the grading inspector as well as the contractor.

Occurrence of acid sulfate soils (grayish black color) will require covering with a minimum of 12 inches of clean soil with 6 inches minimum capping of top soil. No stockpiling of material is allowed. If needed, soil tests should be done before and after a 6-week incubation period to allow oxidation of sulfates.

The minimum soil conditions required for permanent vegetative establishment are:

- Soil pH shall be between 6.0 and 7.0.
- Soluble salts shall be less than 500 parts per million (ppm).
- The soil shall contain less than 40% clay but enough fine grained material (> 30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or sericea lespedeza is to be planted, then a sandy soil (< 30% silt plus clay) would be acceptable.
- Soil shall contain 1.5% minimum organic matter by weight.
- Soil must contain sufficient pore space to permit adequate root penetration.
- If these conditions cannot be met by soils on site, adding topsoil is required in accordance with the Standard and Specifications for Soil Preparation, Topsoiling and Soil Amendments from the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control or amendments made as recommended by a certified agronomist.

B. Seedbed Preparation: Area to be seeded shall be loose and friable to a depth of at least 3-5 inches. The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. For sites less than 5 acres, apply 100 pounds dolomitic limestone and 20 pounds of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3-5 inches on slopes flatter than 3:1.

C. Seeding: Apply 5-6 pounds per 1,000 square feet of tall fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly on a moist firm seedbed with a cyclone seeder, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only). Maximum seed depth should be 1/4 inch in clayey soils and 1/2 inch in sandy soils when using other than the hydroseeder method. Irrigate where necessary to support adequate growth until vegetation is firmly established. If other seed mixes are to be used, select from Table B3 and B5 of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

D. Mulching: Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied immediately after grading. Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons per acre or 90 pounds per 1,000 square feet (2 bales). Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch-anchoring tool is used, apply 2.5 tons per acre. Mulch materials shall be relatively free of all kinds of weeds and shall be completely free of prohibited noxious weeds. Spread mulch uniformly, mechanically or by hand, to a depth of 1-2 inches.

E. Securing Straw Mulch: Straw mulch shall be secured immediately following mulch application to minimize movement by wind or water. The following methods are permitted:

- Use a mulch-anchoring tool which is designed to punch and anchor mulch into the soil surface to a minimum depth of 2 inches. This is the most effective method for securing mulch, however, it is limited to relatively flat areas where equipment can operate safely.
- Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. If mixed with water, use 50 pounds of wood cellulose fiber per 100 gallons of water.
- Liquid binders may be used. Apply at higher rates at the edges where wind catches mulch, such as in valleys and on crests of slopes. The remainder of the area should appear uniform after binder application. Binders listed in the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control or approved equal shall be applied at rates recommended by the manufacturers.
- Lightweight plastic netting may be used to secure mulch. The netting will be stapled to the ground according to manufacturer's recommendations.

**2. Temporary Seeding:**

Lime: 100 pounds of dolomitic limestone per 1,000 square feet.  
Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet.  
Seed: Perennial ryegrass - 0.92 pounds per 1,000 square feet (February 1 through April 30 or August 15 through October 31).  
Millett - 0.92 pounds per 1,000 square feet (May 1 through August 15).  
Same as D and E above.

3. No fills may be placed on frozen ground. All fill is to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All compaction requirements are in accordance to Anne Arundel County Standard Specifications for Construction as well as the AA County Design Manual and Standard Details. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

**4. Permanent Sod:**

Installation of sod should follow permanent seeding dates. Seedbed preparation for sod shall be as noted in section (B) above. Permanent sod is to be tall fescue, state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be replanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod.

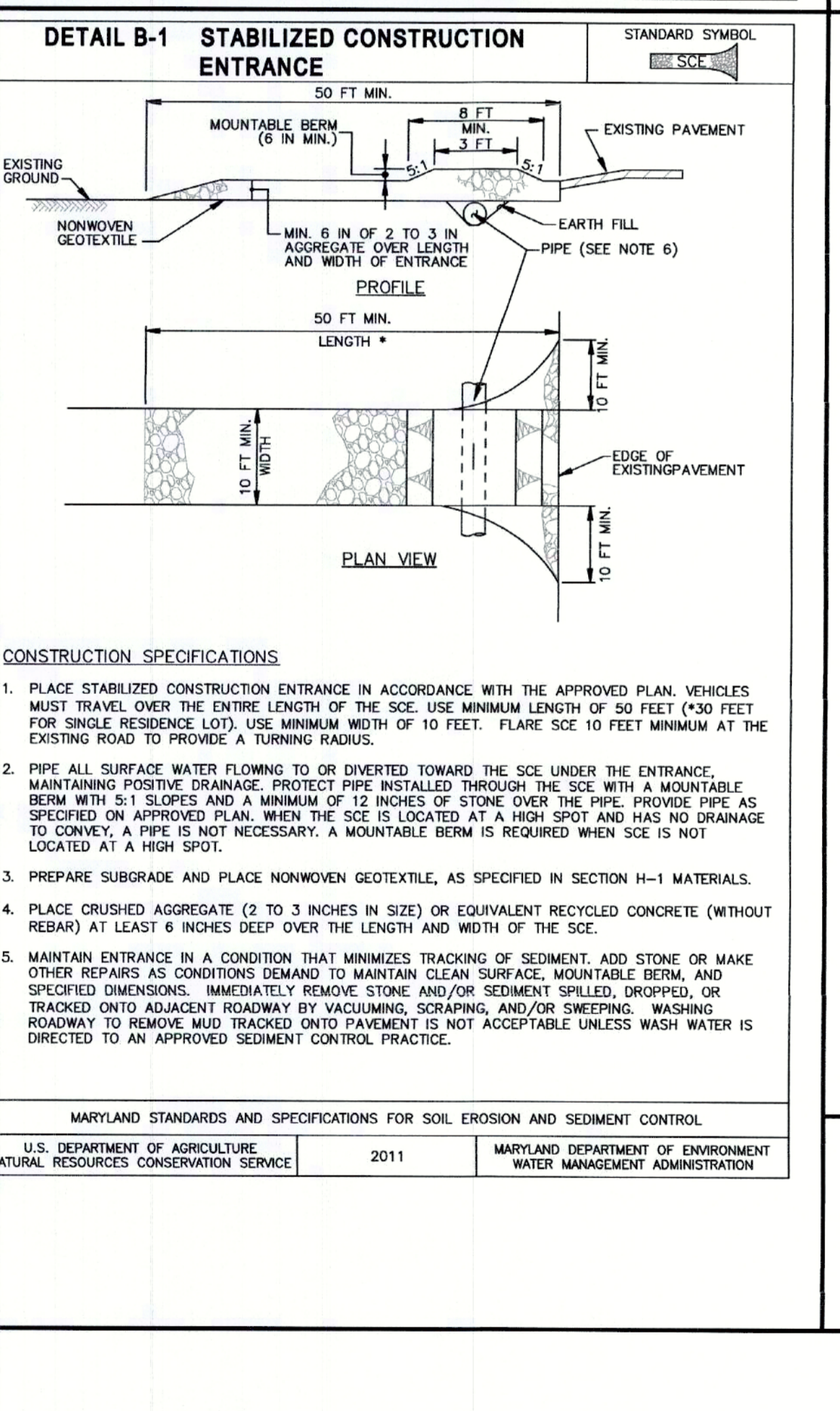
**5. Mining Operations:**

Sediment control plans for mining operations must include the following seeding dates and mixtures:

For seeding dates of February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and sericea lespedeza at the minimum rate of 0.5 pounds per 1,000 square feet.

**6. Topsoil:** shall be applied as per the Standard and Specifications for Soil Preparation, Topsoiling, and Soil Amendments from the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.

**7. Use of these Vegetative Establishment Specifications does not preclude the permittee or contractor from meeting all of the requirements set forth in the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control.**



### 2019 Step Pool Storm Conveyance (SPSC) Stabilization Notes:

• Temporary stabilization notes (include one of the following):

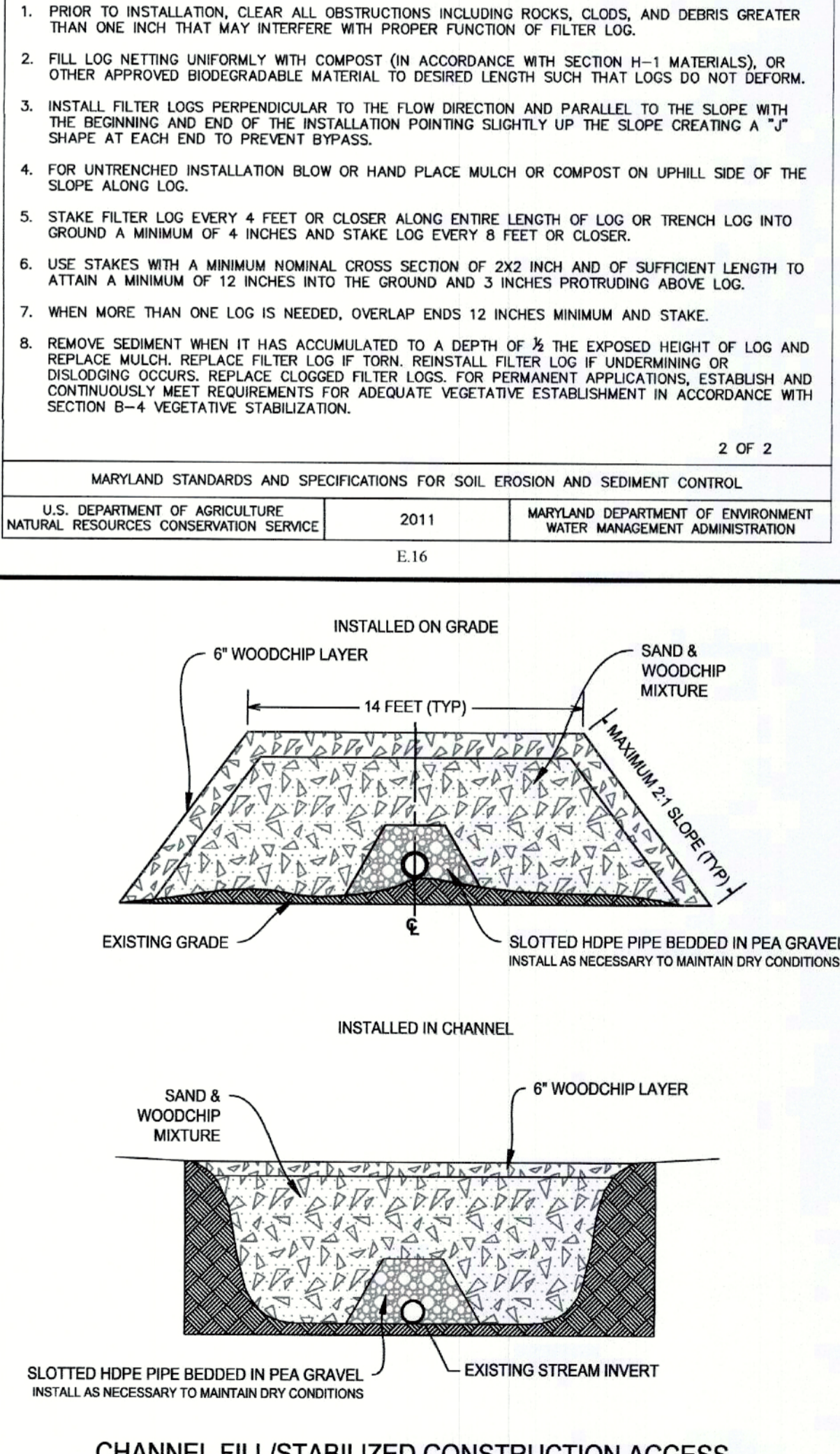
- Temporary stabilization for any area of earth disturbance around the pools and riffle zones of a SPSC (e.g., Step Pool Storm Conveyance System) shall be considered achieved when uniformly covering the area with 2 to 4 inches of wood chips. Annual rye may be utilized for the temporary seeding application period found under the Anne Arundel Soil Conservation District's (AASCD) Vegetative Establishment Specification or 2011 Standards and Specifications for Soil Erosion and Sediment Control.

• Permanent stabilization notes (include one of the following):

- Permanent stabilization for an area of earth disturbance around the pools and riffle zones of a SPSC shall be considered achieved when the area is covered with 2 to 4 inches of compost (applied over any wood chips used for temporary stabilization) or 2 to 4 inches of wood chips tracked into soil and a (Native Plants) planting plan has been implemented, regardless of soil treatment.
- Permanent stabilization for an area of earth disturbance of a SPSC shall be considered achieved when the banks and floodplain are covered with fully biodegradable stabilization matting installed per manufacturer's instructions and a (Native Plants) planting plan has been implemented.
- All disturbed areas shall receive hydroseeding or flexible growth medium (FGM) after the establishment of final grades and microtopography (if applicable) in accordance with the project Landscaping Plans.

**MATERIAL DISPOSAL REQUIREMENTS**

- TREES, SHRUBS, AND BRANCHES DISTURBED WITHIN THE APPROVED LIMIT OF DISTURBANCE SHALL BE USED AS ORGANIC MATERIAL WITHIN THE REGENERATIVE STREAM CHANNEL.
- STOCKPILE NOT TO EXCEED 15' IN HEIGHT OR HAVE SLOPES STEEPER THAN 2:1
- STOCKPILES SHALL BE COMPLETELY REMOVED AT PROJECT COMPLETION.



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

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

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Signature \_\_\_\_\_ Date \_\_\_\_\_

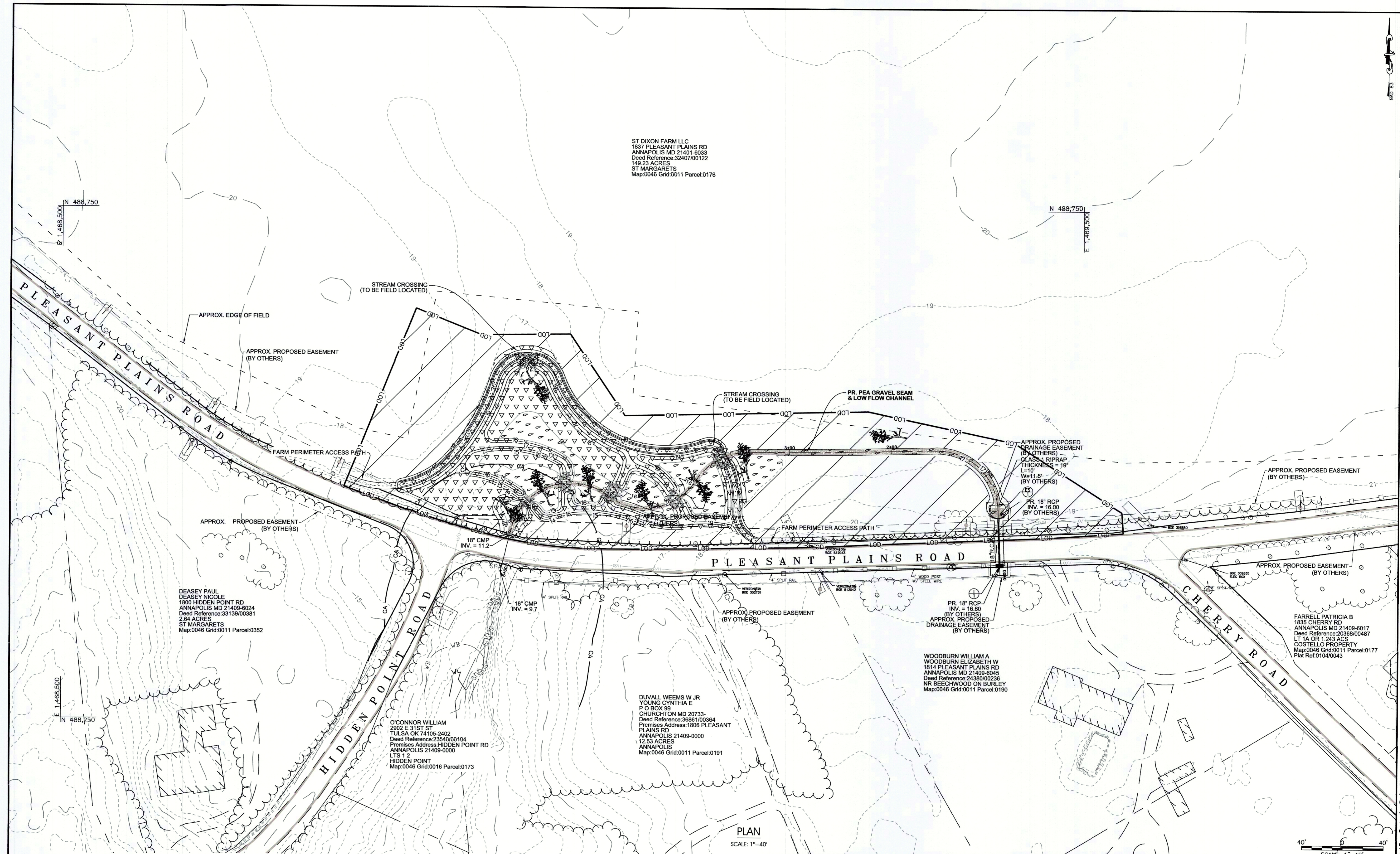
JANUARY 26, 2024	
Scale	AS SHOWN
Drawn By	J.K./B.L./A.T.
Approved By	K.B.
Sheet No.	8 OF 11
Project No.	23-046
Proposal No.	...

SEDIMENT & EROSION CONTROL NOTES AND DETAILS	
HIDDEN POINT ROAD LINED WATERWAY OR OUTLET	
PLEASANT PLAINS ROAD ANNAPOLIS, MARYLAND 21409	
MAP 5295, GRID H-8, H-9, J-8 & J-9, PARCEL 0400	
FORMERLY MAP 0046, GRID 0011, PARCEL 0176	
FORMERLY MAP 0046, GRID 0005, PARCEL 0400	
3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY	

The techniques used in this design are covered by US Patents #1,047,124 & #1,017,125, owned by Underwood & Associates, Inc.



ST DIXON FARM LLC  
 1837 PLEASANT PLAINS RD  
 ANNAPOLIS MD 21401-6033  
 Deed Reference: 32407/00122  
 149.23 ACRES  
 ST MARGARETS  
 Map: 0046 Grid: 0011 Parcel: 0176



DEASEY PAUL  
 DEASEY NICOLE  
 1800 HIDDEN POINT RD  
 ANNAPOLIS MD 21409-6024  
 Deed Reference: 33139/00381  
 2.84 ACRES  
 ST MARGARETS  
 Map: 0046 Grid: 0011 Parcel: 0352

O'CONNOR WILLIAM  
 2902 E 31ST ST  
 TULSA OK 74105-2402  
 Deed Reference: 23540/00104  
 Premises Address: HIDDEN POINT RD  
 ANNAPOLIS 21409-0000  
 LTS 1 2  
 HIDDEN POINT  
 Map: 0046 Grid: 0016 Parcel: 0173

DUVALL WEEMS W JR  
 YOUNG CYNTHIA E  
 P O BOX 99  
 CHURCHTON MD 20733  
 Deed Reference: 36861/00364  
 Premises Address: 1806 PLEASANT  
 PLAINS RD  
 ANNAPOLIS 21409-0000  
 12.53 ACRES  
 ANNAPOLIS  
 Map: 0046 Grid: 0011 Parcel: 0191

WOODBURN WILLIAM A  
 WOODBURN ELIZABETH W  
 1514 PLEASANT PLAINS RD  
 ANNAPOLIS MD 21409-6045  
 Deed Reference: 24380/00236  
 NR BEECHWOOD ON BURLEY  
 Map: 0046 Grid: 0011 Parcel: 0190

FARRELL PATRICIA B  
 1835 CHERRY RD  
 ANNAPOLIS MD 21409-6017  
 LT 1A OR 1.243 ACS  
 COSTELLO PROPERTY  
 Map: 0046 Grid: 0011 Parcel: 0177  
 Plat Ref: 0104/0043

PLAN  
 SCALE: 1"=40'

SCALE: 1"=40'

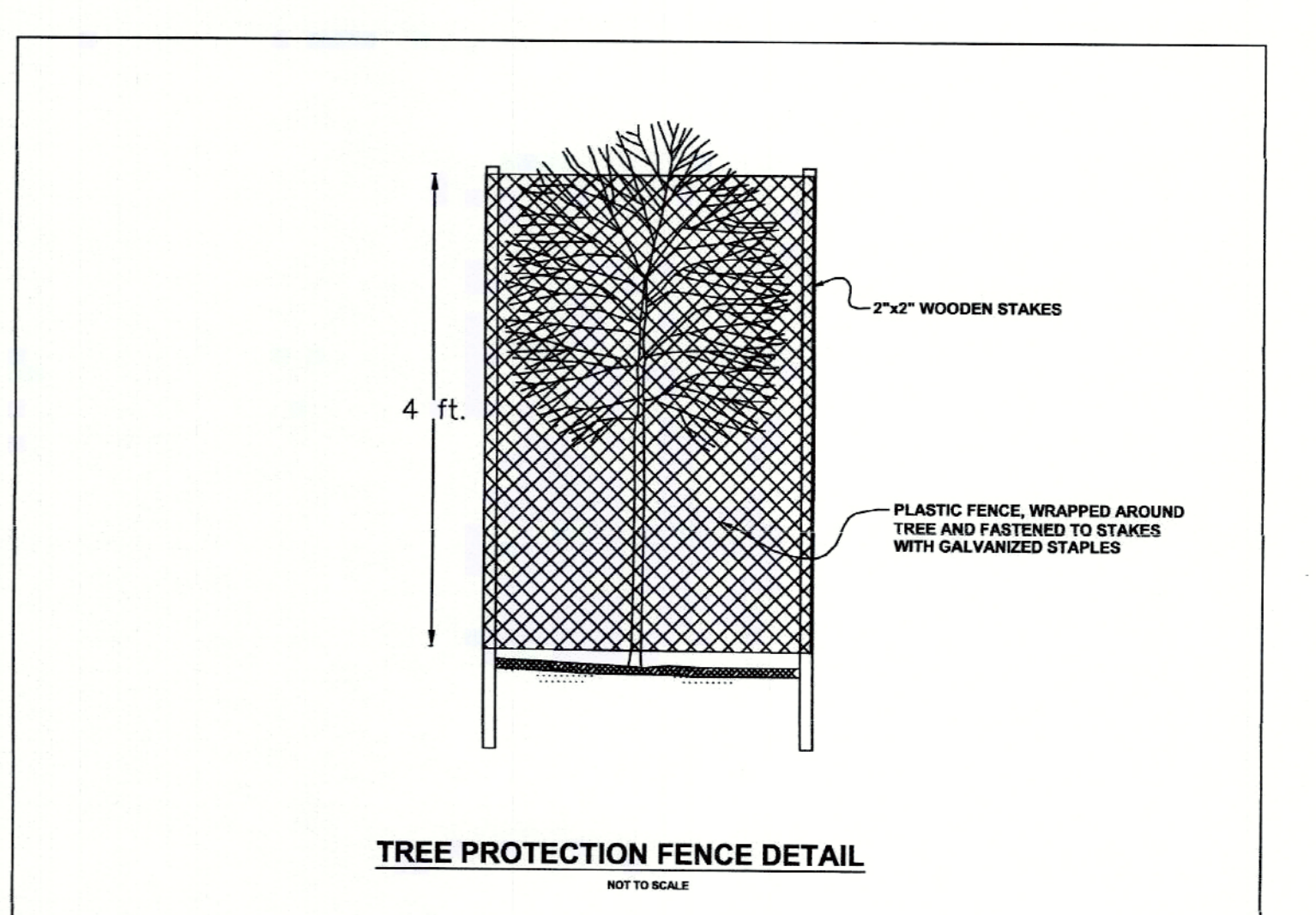
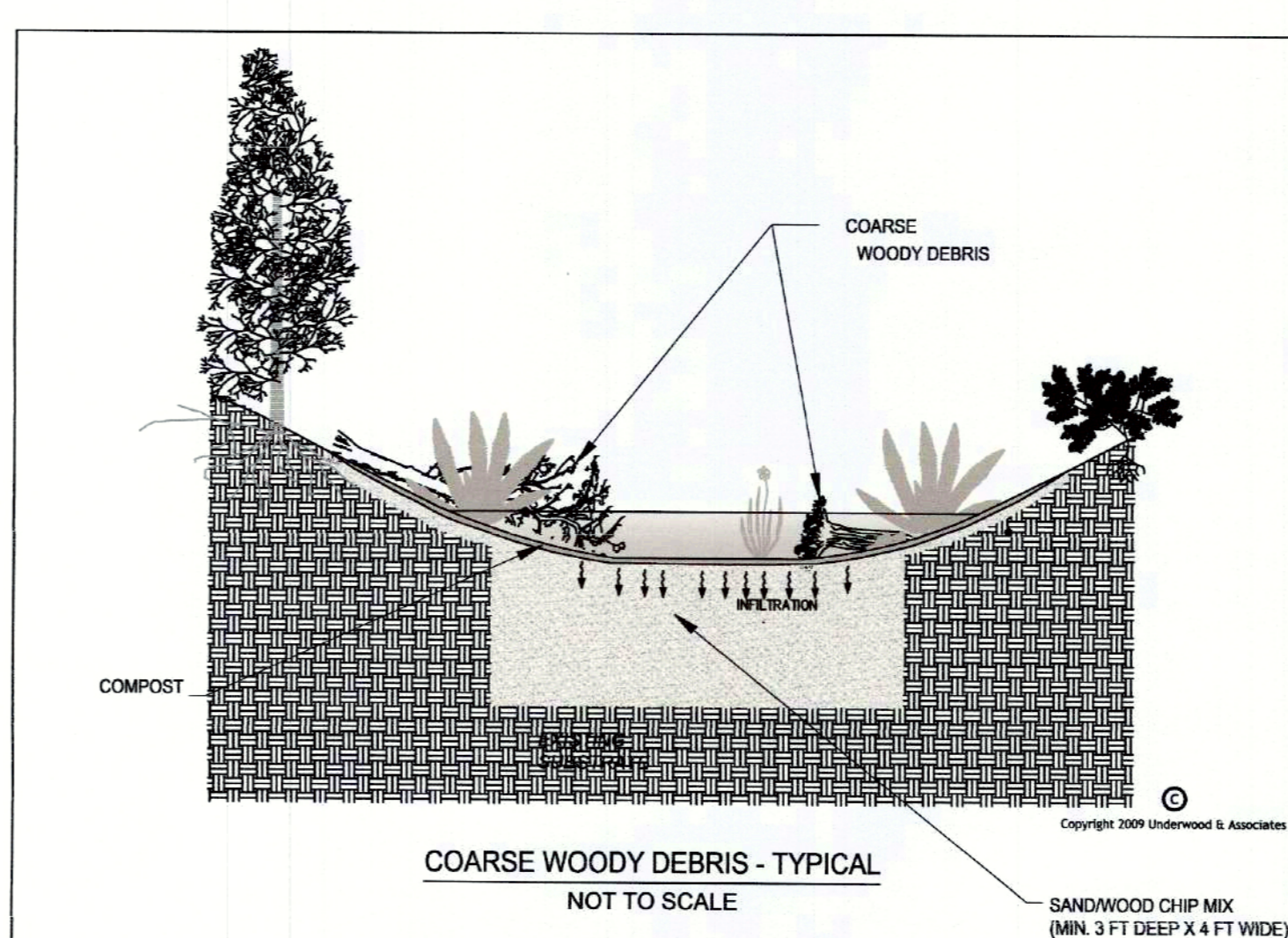
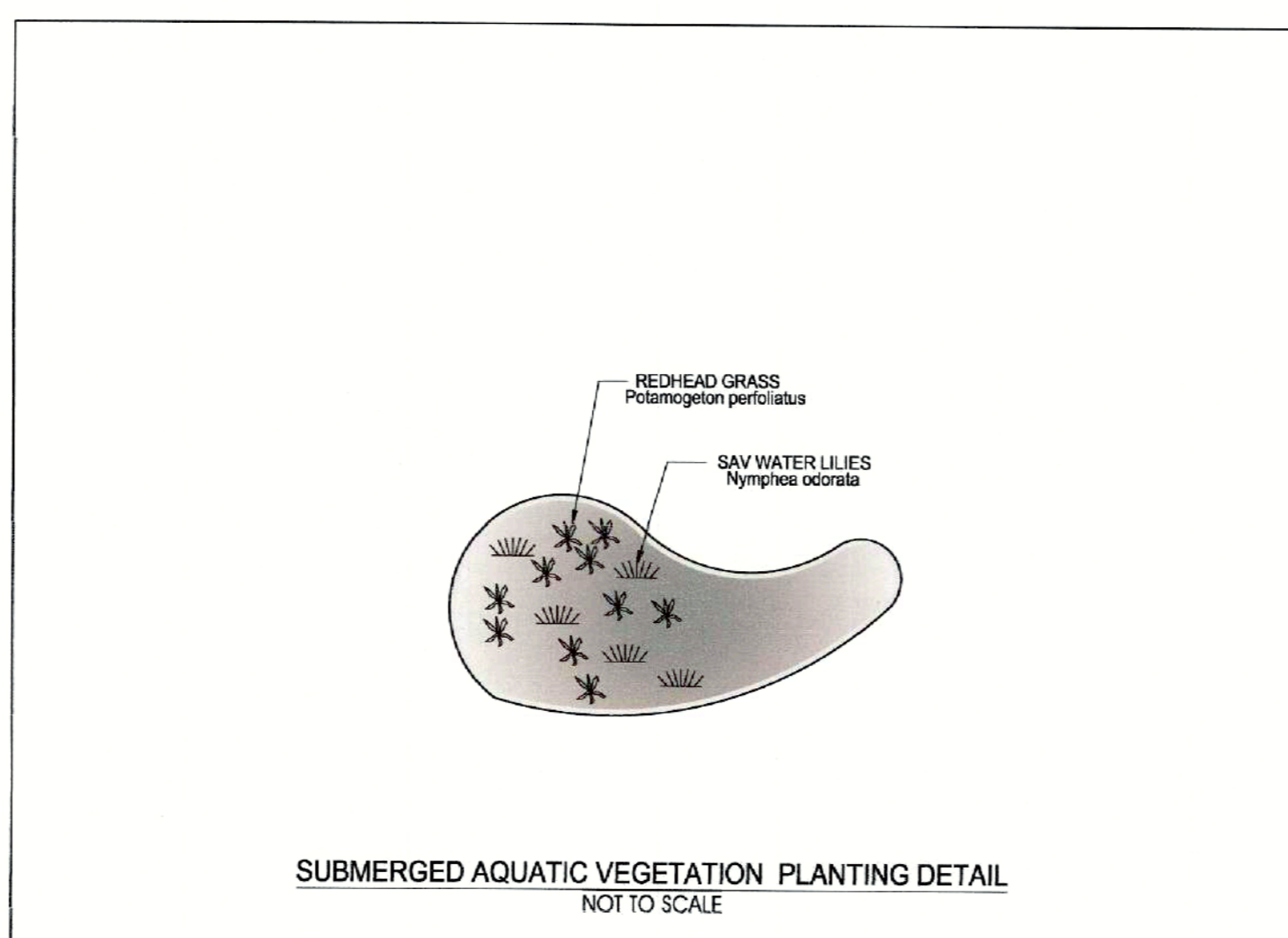
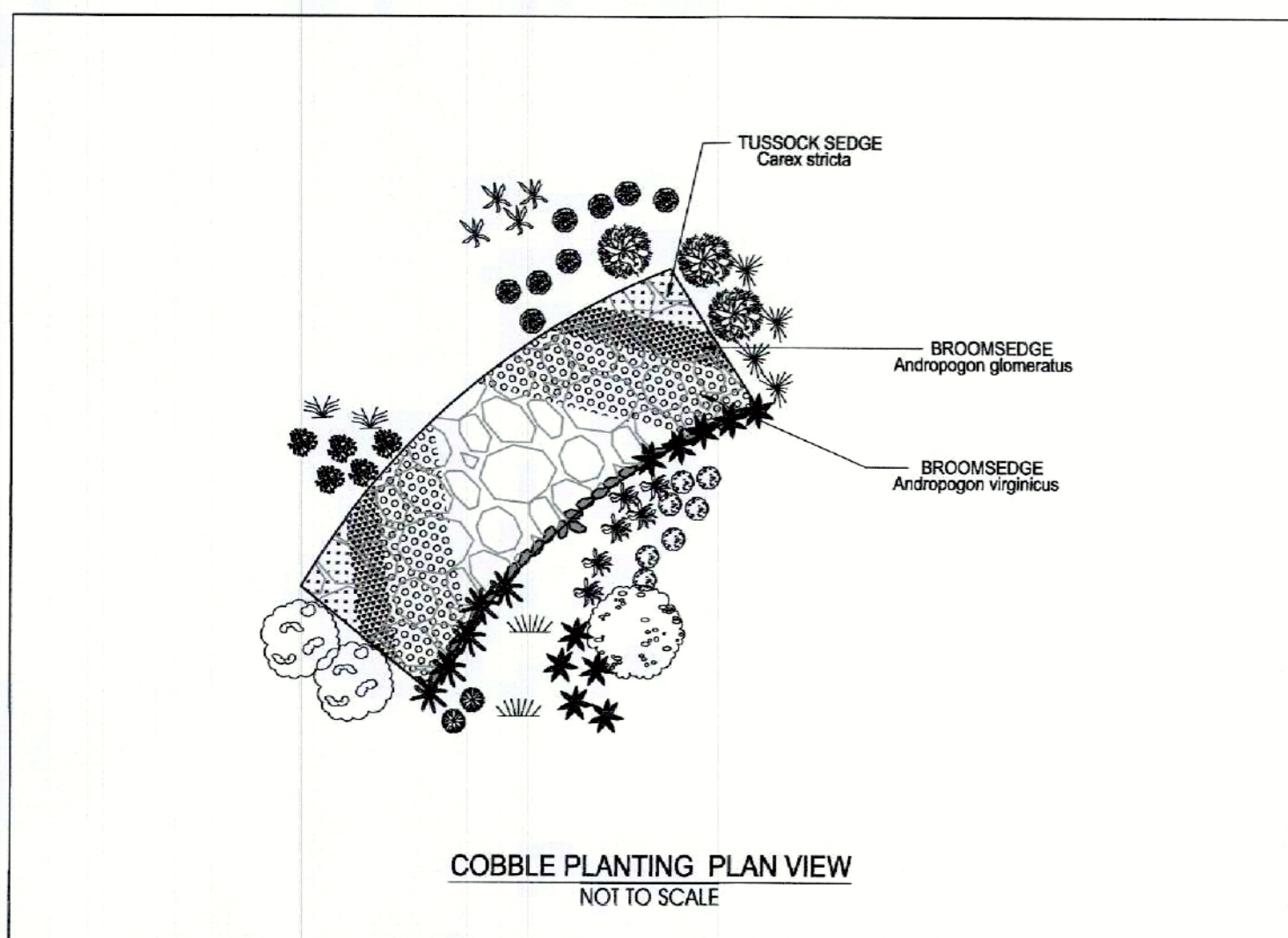
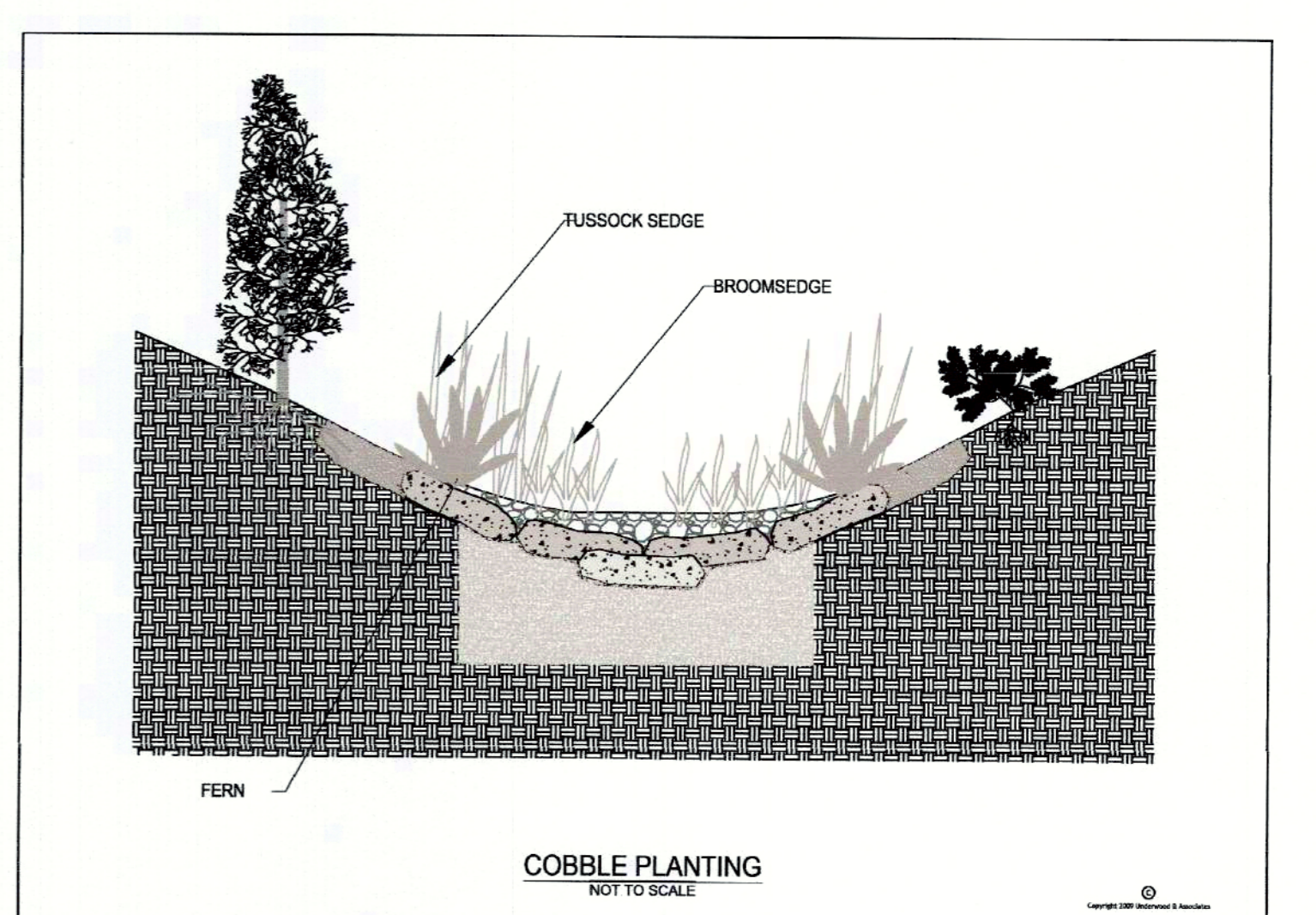
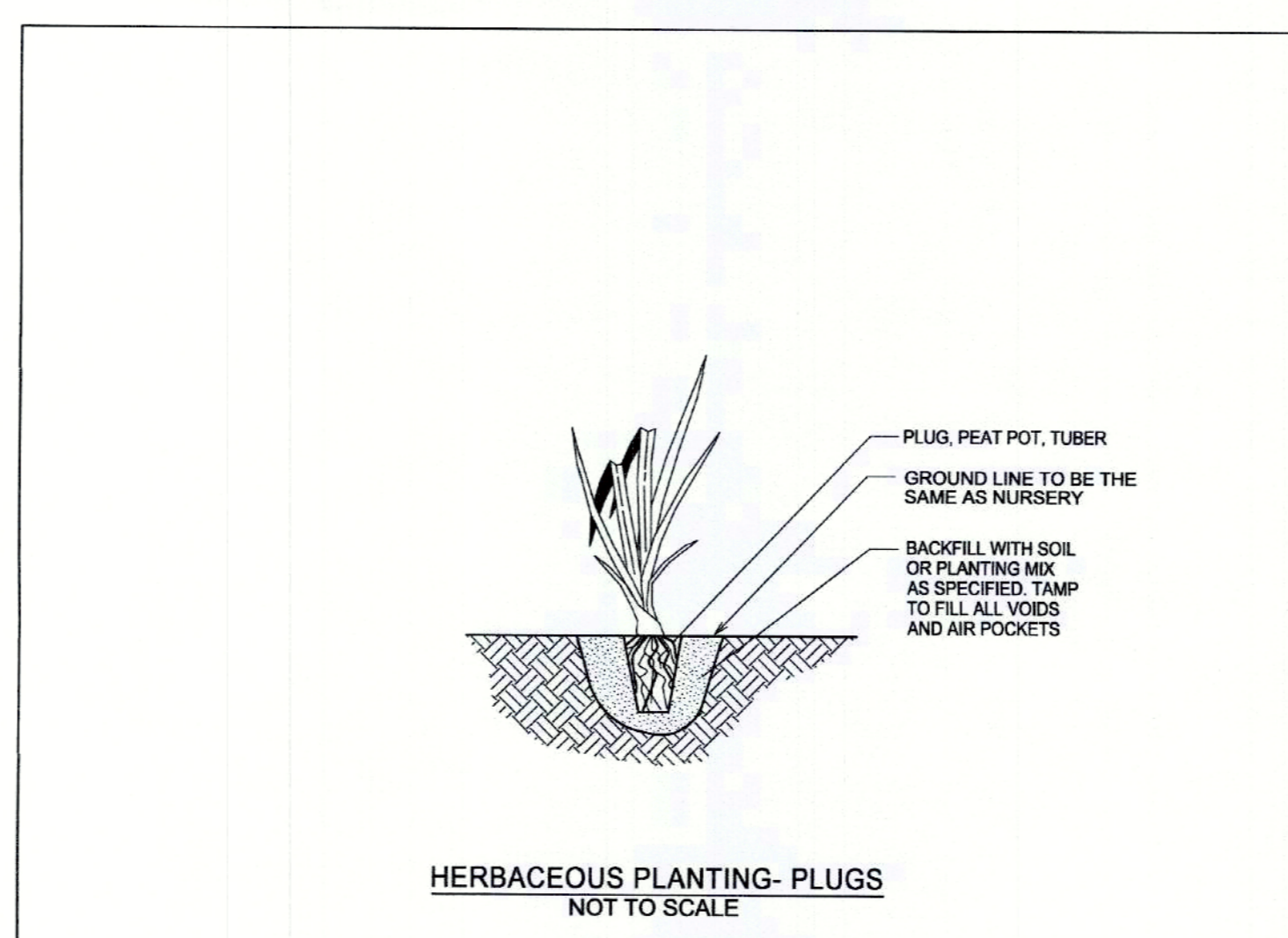
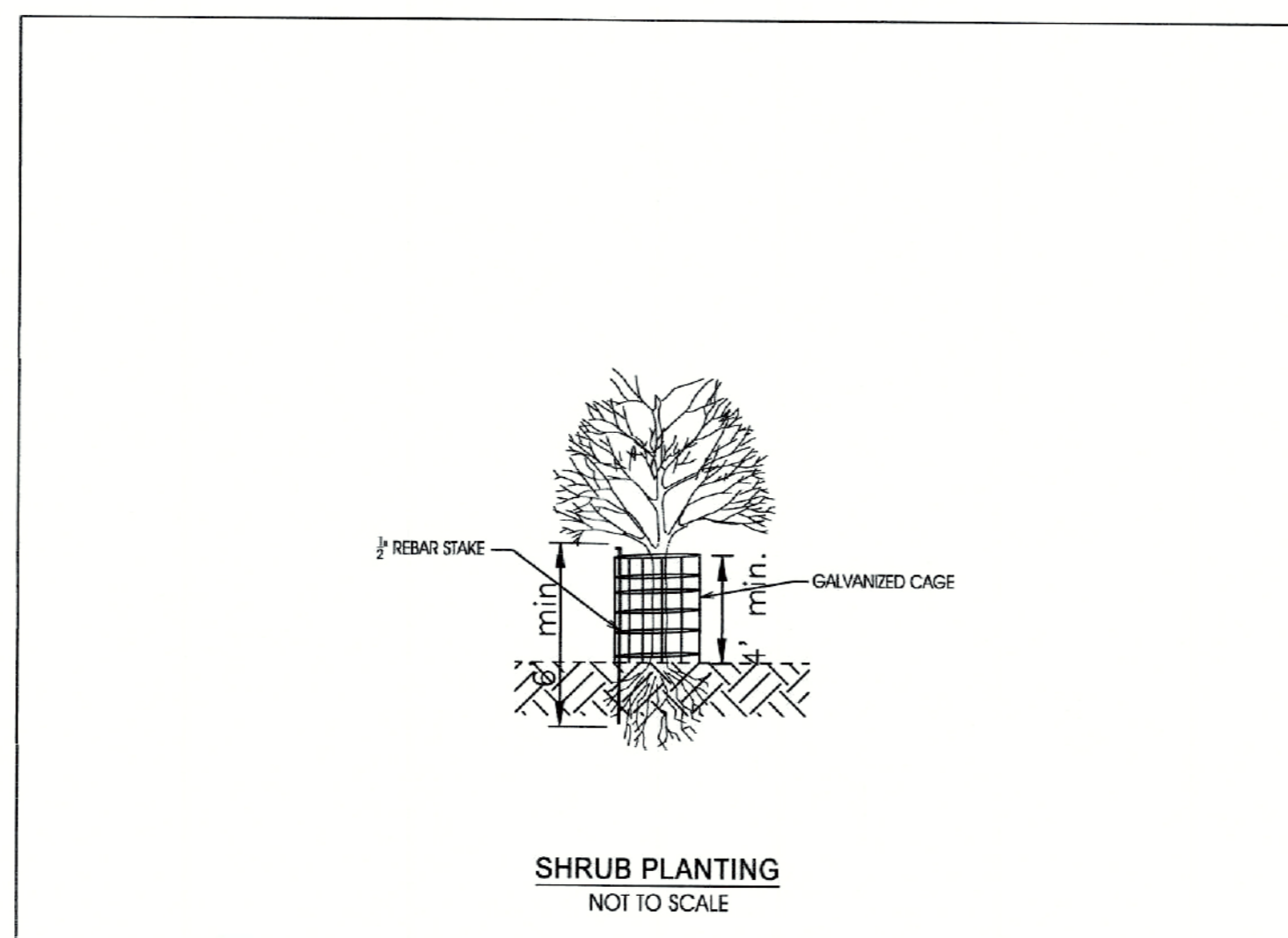
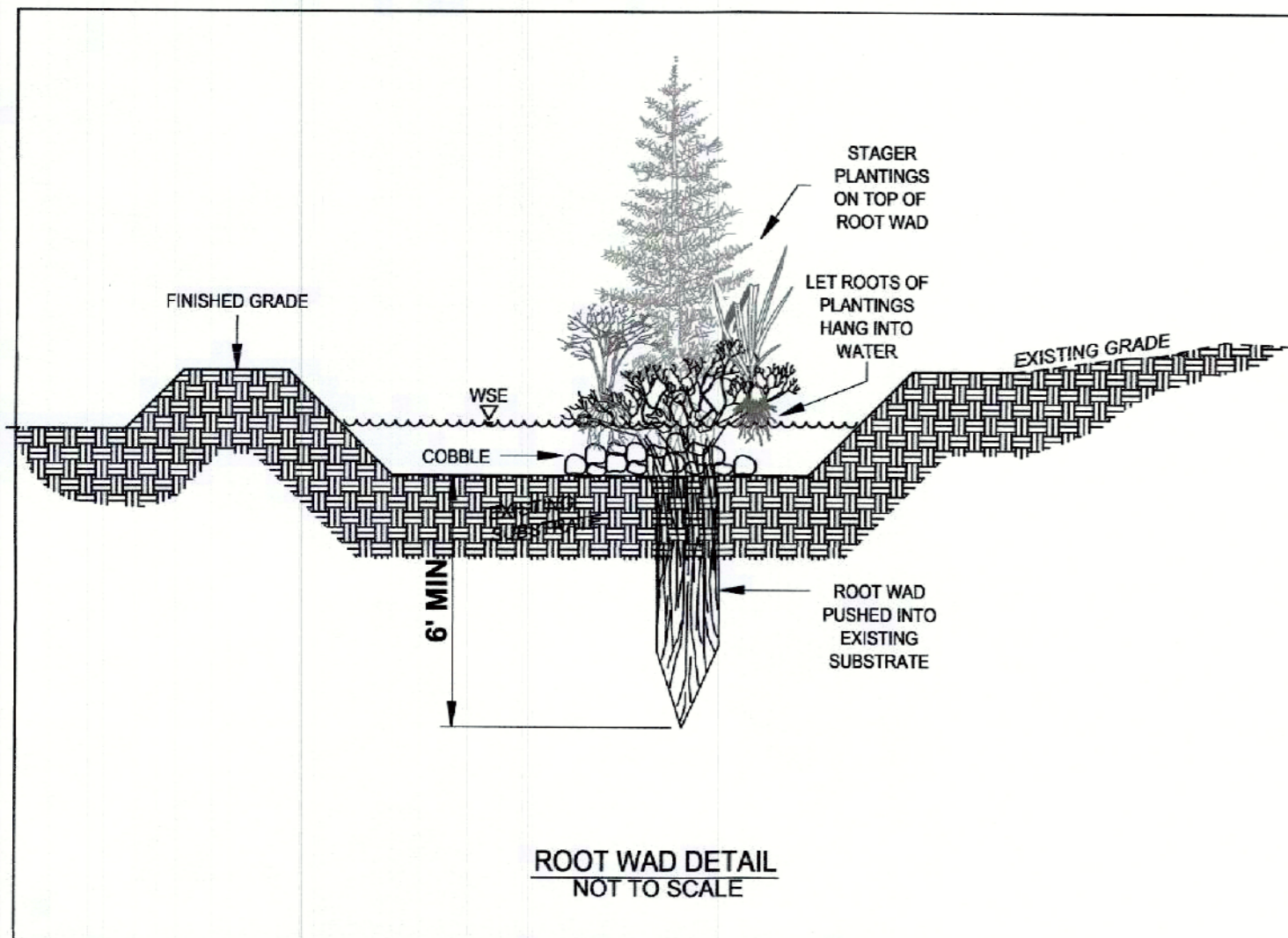
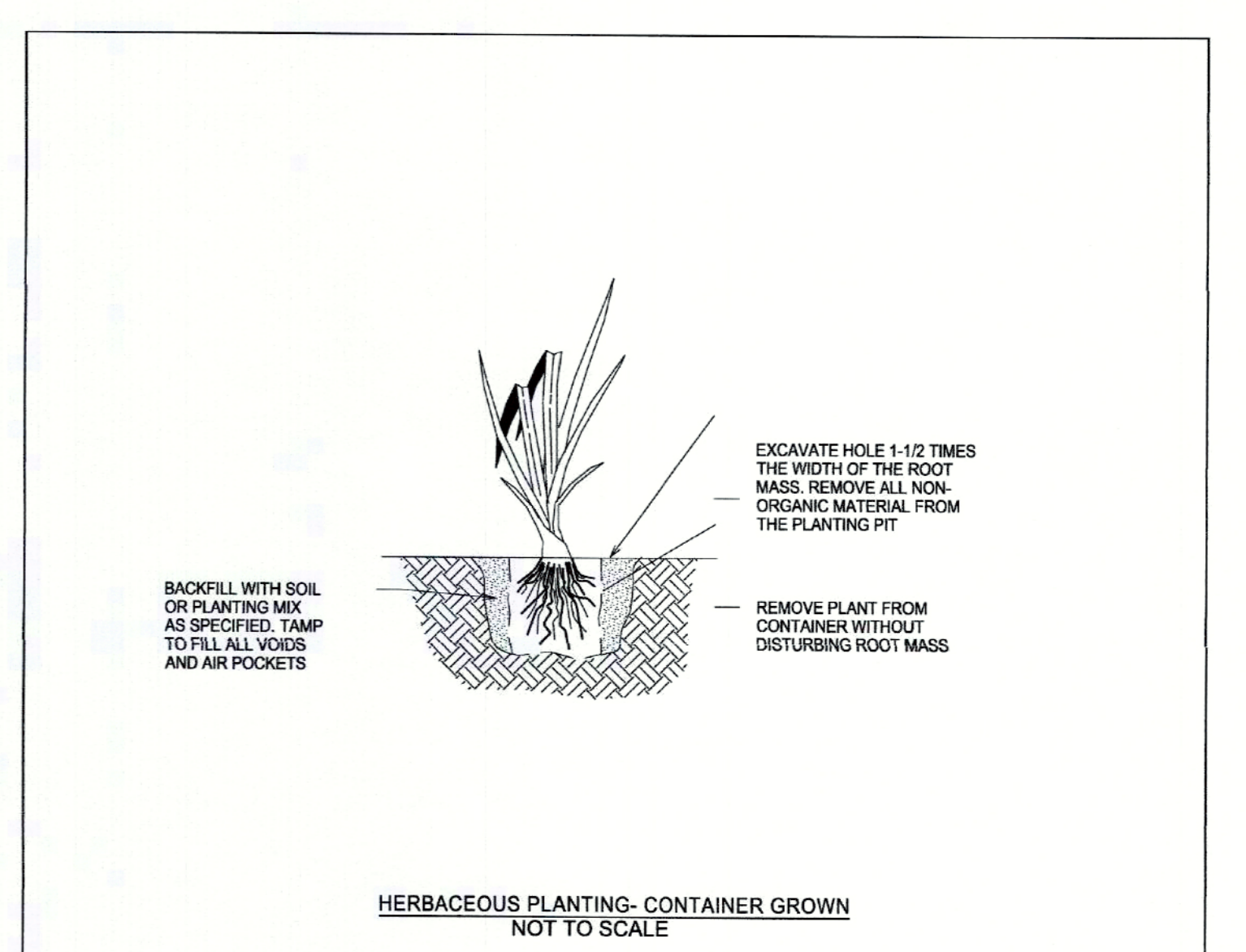
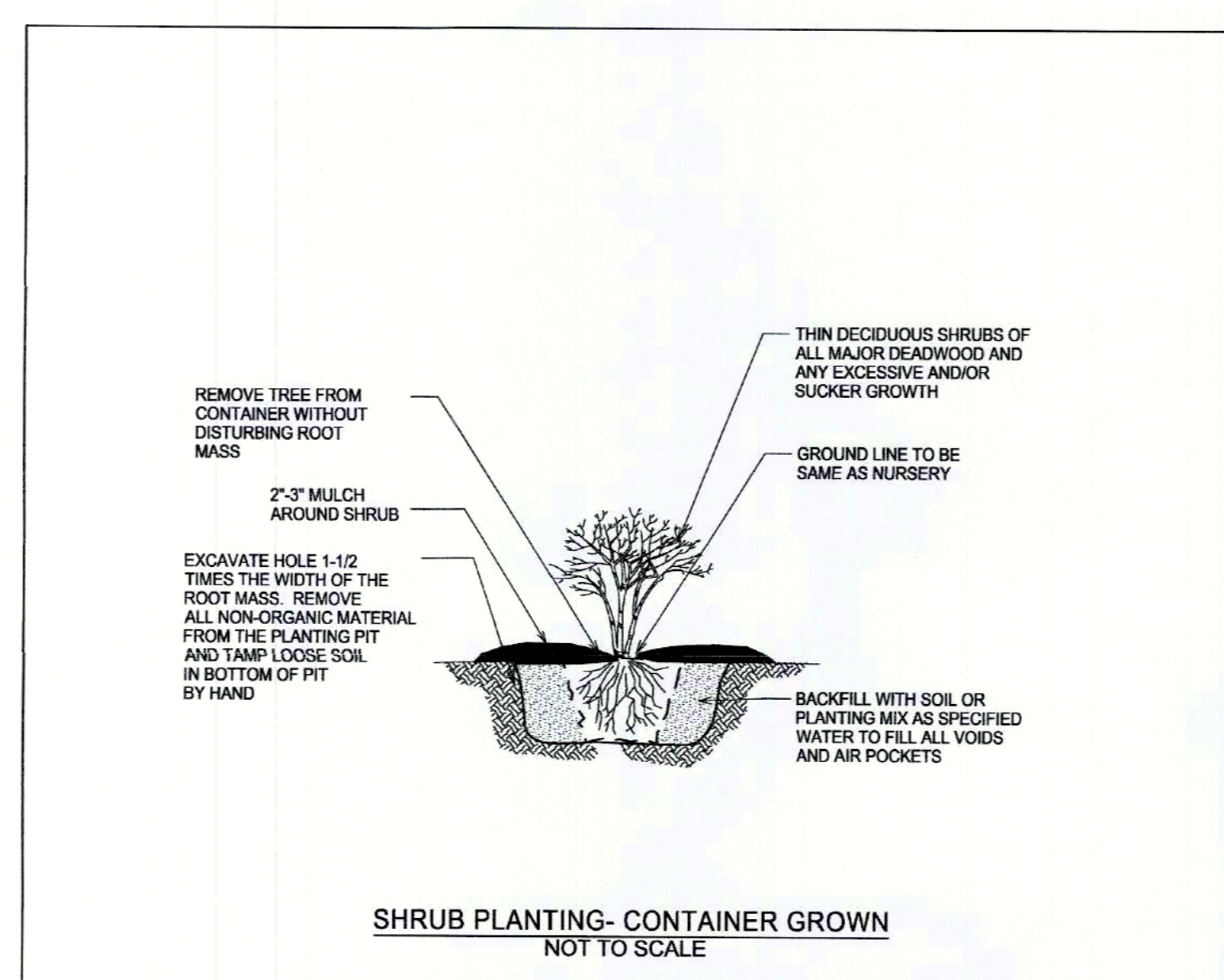
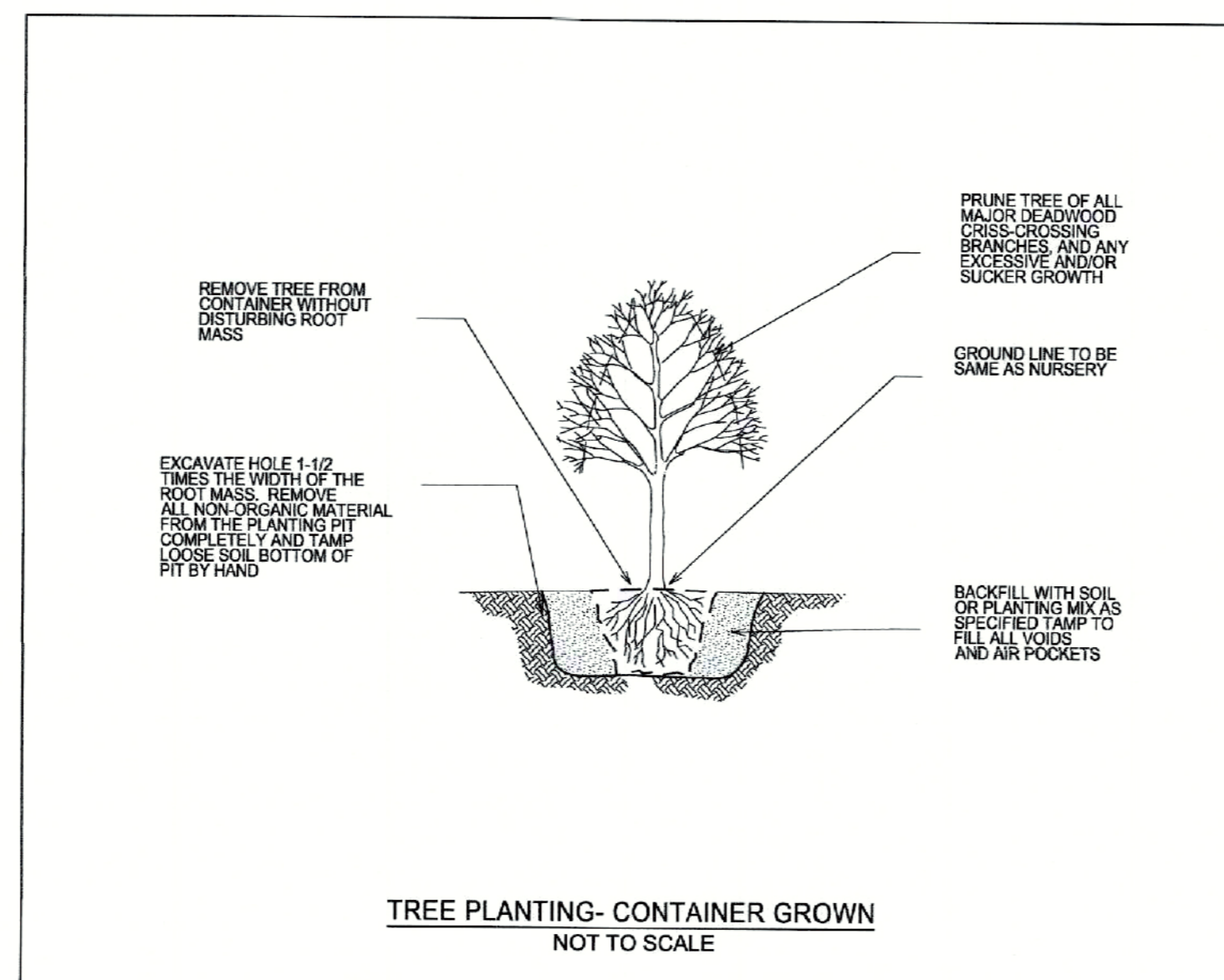
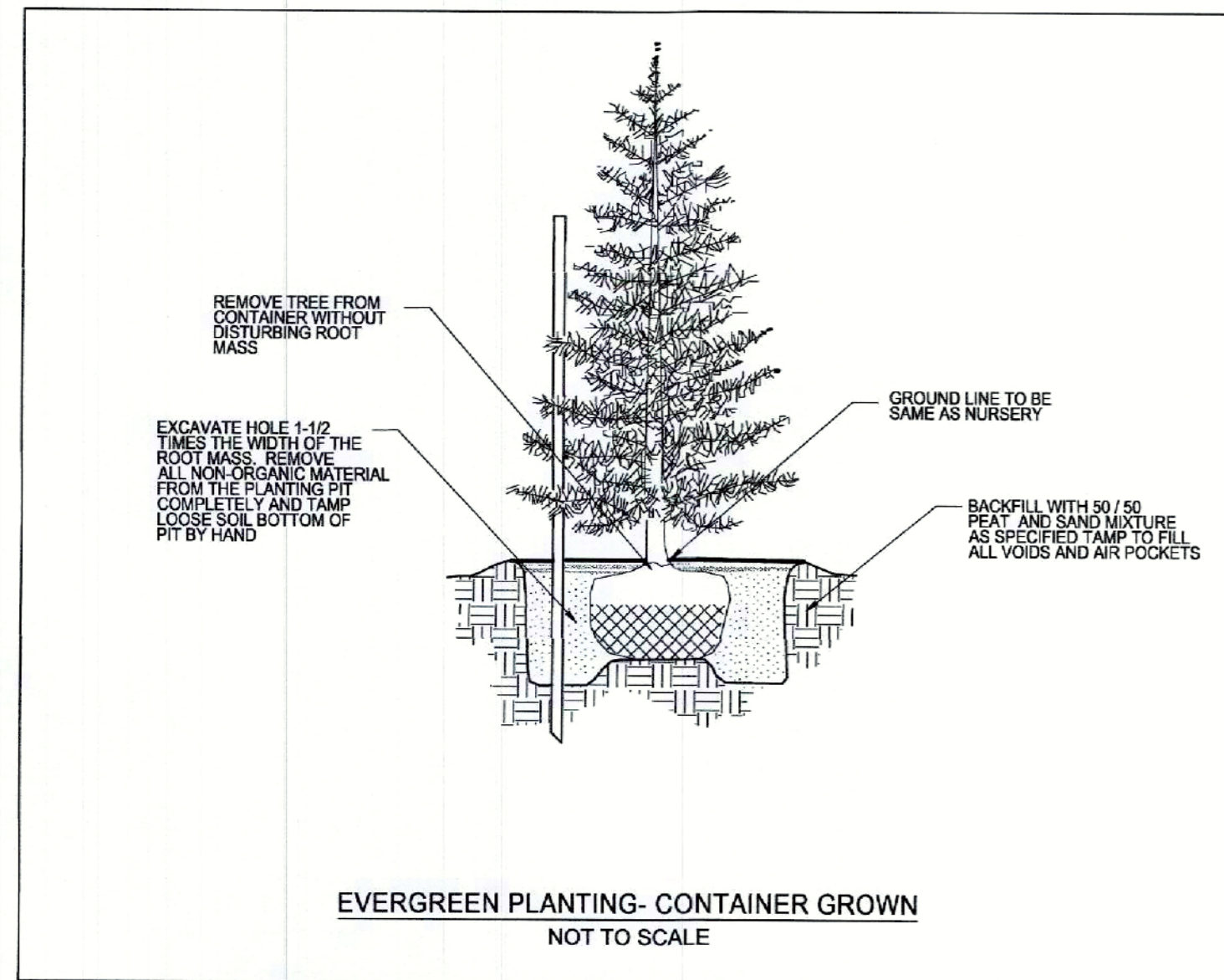
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Scale	AS SHOWN	<b>PLANTING PLAN</b> <b>HIDDEN POINT ROAD LINED WATERWAY OR OUTLET</b> PLEASANT PLAINS ROAD ANNAPOLIS, MARYLAND 21409 MAP 5295, GRID H-8, H-9, J-8 & J-9, PARCEL 0400 FORMERLY MAP 0046, GRID 0011, PARCEL 0176 FORMERLY MAP 0046, GRID 0005, PARCEL 0400 3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY
Drawn By	J.K.B./J.A.T.	
Approved By	K.B.	
Sheet No.	9 OF 11	
Project No.	23-046	
Proposal No.	...	JANUARY 26, 2024

Cadd File: S:\008-Projects\Central Sod Farm Restoration (Dudley Dixon, Hollywood)\04-CADD\Drawings\Hidden Point\04\_PLANTING PLAN.dwg 2024 - 6:02pm The techniques used in this design are covered by US Patents # 11,047,124 & # 11,047,125, owned by Underwood & Associates, Inc.



**PLAN**  
SCALE: AS SHOWN

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STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
REGISTRATION NO. 11-466  
EXPIRES 5/28/25

JANUARY 26, 2024	
Scale	AS SHOWN
Drawn By	J.K./B.L./A.T.
Approved By	K.B.
Sheet No.	10 Of 11
Project No.	23-046
Proposal No.	...

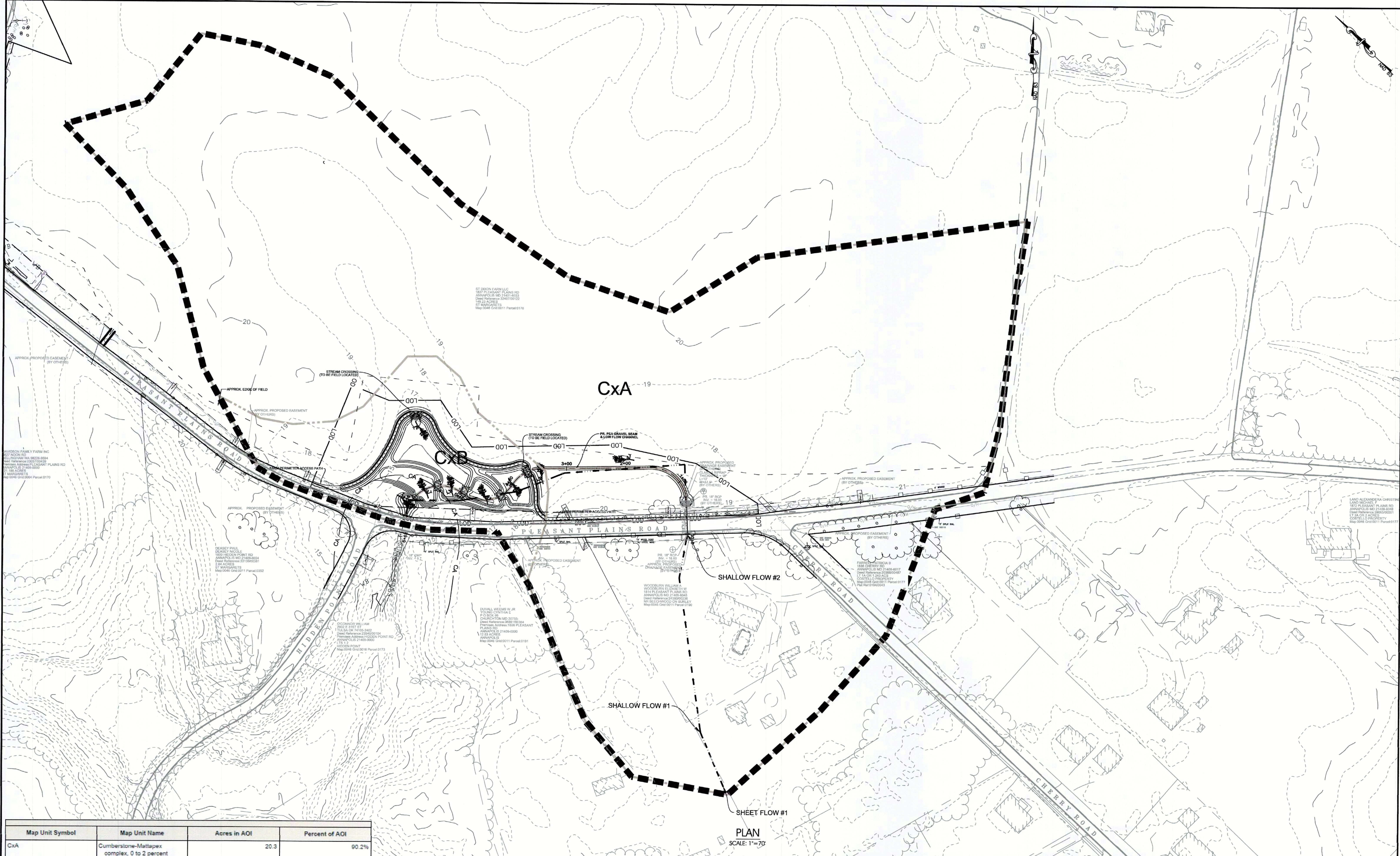
**PLANTING SCHEDULE & DETAILS**

**HIDDEN POINT ROAD LINED WATERWAY OR OUTLET**

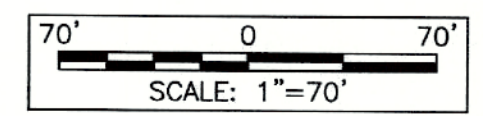
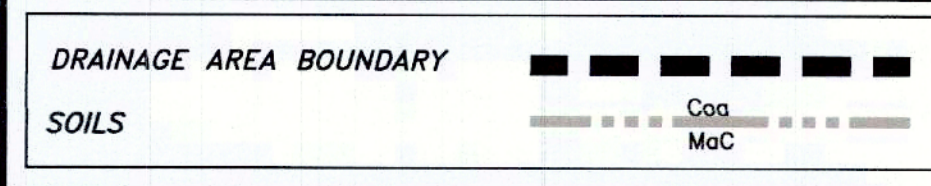
PLEASANT PLANIS ROAD ANNAPOLIS, MARYLAND 21409  
MAP 5295, GRID H-8, H-9, J-8 & J-9, PARCEL 0400  
FORMERLY MAP 0046, GRID 0011, PARCEL 0176  
FORMERLY MAP 0046, GRID 0005, PARCEL 0400  
3TH ELECTION DISTRICT, ANNE ARUNDEL COUNTY

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Cadd File : S:\006-Projects\Central Soil Farm Restoration (Dudley Dixon\_Hollywood)\04-CAD\Drawings\Hidden Point\10\_PLANTING\03-PLANTING\_SCH.DWG - 5.03pm



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CxA	Cumberstone-Mattapex complex, 0 to 2 percent slopes	20.3	90.2%
CxB	Cumberstone-Mattapex complex, 2 to 5 percent slopes	2.2	9.8%
Totals for Area of Interest		22.5	100.0%



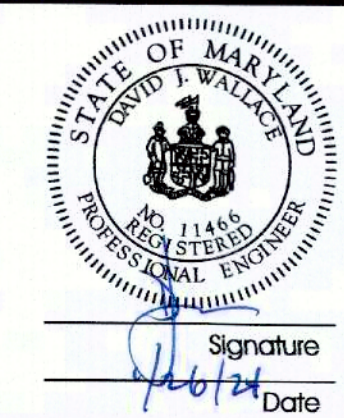
PLAN  
SCALE: 1"=70'

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JANUARY 26, 2024

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Drawn By	J.K./B.L./A.T.
Approved By	K.B.
Sheet No.	11 Of 11
Project No.	23-046
Proposal No.	

**DRAINAGE AREA MAP**

**HIDDEN POINT ROAD LINED WATERWAY OR OUTLET**

PLEASANT PLAINNS ROAD ANNAPOLIS, MARYLAND 21409  
MAP 5205, GRID H-9, H-9, J-8 & J-9, PARCEL 0400  
FORMERLY MAP 0046, GRID 0011, PARCEL 0176  
FORMERLY MAP 0046, GRID 0005, PARCEL 0400  
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