

STANDARD SEDIMENT AND STORMWATER CONSTRUCTION NOTES

DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.

DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.

11. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.

WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.

STORMWATER MANAGEMENT PLANS APPROVED BY THE DEPARTMENT SHALL HAVE A THIRD PARTY CCR.

APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.

REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR

IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC.

FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL

APPROVAL OF A SEDIMENT AND STORMWATER PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVEWPER IS RESPONSIBLE

CHECKED DAILY AND ADJUSTED OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT

HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE

13. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE. THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1.800.282.8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

14. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7. DEL C. CH 60 AND THE CURRENT

15. DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS.

16. THE SUSSEX CONSERVATION DISTRICT, MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH

17. THE OWNER SHALL ACQUIRE THE SERVICES OF A THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) TO PERFORM WEEKLY CONSTRUCTION REVIEWS. SEDIMENT AND

THE SPECIFICATIONS IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.

PROPOSED LAND USE: RESIDENTIAL

SOIL AMENDMENT TAGS, ETC, SHALL BE PROVIDED TO THE DEPARTMENT OR DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN

10. THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS # 1790. THE

6. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF

8. POST CONSTRUCTION VERIFICATION DRAWINGS ARE TO BE SUBMITTED TO THE DISTRICT WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.

PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT

12. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OF DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE

FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.

5. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.

COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMW ATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THI

Preliminary Sediment and Stormwater Management Plan Heritage Shores - Phase 7A

Project Notes

Parcel Data

PROJECT TAX MAP ID:131-14.00-44.00

PLUS NUMBER: N/A

DNREC SEDIMENT & STORMWATER PROGRAM NUMBER: 1790

SITE ADDRESS: INTERSECTION OF HERITAGE SHORES DR AND CHAMPIONS DR

LATITUDE/LONGITUDE: CENTER OF PARCEL: 38.725234 LAT, -75.606271 LNG

EXISTING SITE AREA: 7.58 AC

PROPOSED SITE AREA: 7.58 AC

EXISTING WETLAND AREA: 0 AC

PROPOSED CONDITION: 38 SINGLE FAMILY RESIDENTIAL LOTS

PROPOSED DISCHARGE LOCATION: TURKEY BRANCH

WATERSHED: NANTICOKE RIVER

TOTAL LIMIT OF DISTURBANCE PER DISCHARGE LOCATION: 7.58 AC

Contact Data

OWNER & DEVELOPER:

PASSWATERS FARM, LLC 3201 JERMANTOWN RD, STE. 150 FAIRFAX, VA 22030

PHONE: (703) 270 - 1400

EMAIL: NEIL.PATEL@BROOKFIELDRP.COM

ENGINEER:

RAUCH INC. 106 N. HARRISON ST. EASTON, MD 21601 PHONE: (410) 770 - 9081 FAX: (410) 770 - 3667 EMAIL: DESIGN@RAUCHENG.COM

SHEET INDEX

T-1 CSP-1 PSSM-1 CSSM-1 CSDN-1 → CSDN-5 $PCSM-1 \rightarrow PCSM-3$ BMP-KEY BMP-1 \rightarrow BMP-4

PSLOD-1

Coversheet and General Notes Overall Construction Site Phasing Plan Pre-Construction Site Stormwater Management Plan Construction Site Stormwater Management Plan Construction Site Details and Notes Post Construction Stormwater Management Plan Overall BMP Contributing Drainage Area Plan BMP Contributing Drainage Area Plan Pre-Developed Subarea Limit of Disturbance Drainage Area Plan

, the undersigned, certify that all land clearing, construction and TOC PATH - SHALLOW FLOW development should be done pursuant to the approved plan and that responsible personnel (i.e., Blue Card Holder) involved in the land

> disturbance will have a Certification of Training prior to initiation of the project, at a DNREC sponsored or approved training course for the control of erosion and sediment during construction. In addition, I grant the DNREC Sediment and Stormwater Program and/or the relevant Delegated

PROJECT

LOCATION

responsibilities under the NPDES Construction General Permit, as referenced on this Coversheet.

VICINITY MAP

OWNER'S/DEVELOPER'S CERTIFICATION

ENGINEER'S CERTIFICATION STATEMENT

Agency the right to conduct onsite reviews, and I understand my

hereby certify that this plan has been prepared under my supervision and to the best of my knowledge complies with the applicable state and local regulations and ordinances.

NEIL PATEL

09/18/23

09/18/23

Title VP OF LAND DEVELOPMENT

Title DE Registered Professional Engineer Robert D. Rauch, PE

License Number 8359

WETLAND CERTIFICATION

This property, tax map 131-14.00-44.00, has been examined by RAUCH inc. for the presence of waters of the united states, including wetlands (section 404 and section 10), state subaqueous lands and state regulated wetlands as established by the reviewing agencies in the form of manuals, policies and procedures in place at the time that the investigation was conducted. The wetland information contained in this plan set is in accordance with this criteria.

Signed Mountanyh

Licensed Environmental Health Scientist

SITE CHARACTERISTICS

TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.

DELAWARE CONSTRUCTION GENERAL PERMIT (CGP).

COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN.

Total Site Area: 736.30 7.78 **Disturbed Area:** 4,989 CY Fill Quantity: 3,213 CY **Cut Quantity:** 1,776 CY Net Fill:

HORIZONTAL CONTROL: DELAWARE STATE GRID NAD-83 **VERTICAL CONTROL: NAVD 1988 ZONING:** RESIDENTIAL PLANNED COMMUNITY (RPC) **CURRENT LAND USE: RESIDENTIAL**

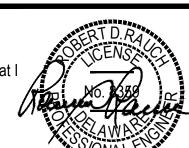
NOTE:

This set of plans has been prepared to specifically address the additional development of the Heritage Shores - Phase 7A. All sediment control measures approved by previous plans for the development of Heritage Shores Phases 1 through 6 and the construction of the golf course shall remain in effect unless specifically modified by this plan.



Web: www.rauch-inc.com | Email: design@raucheng.co Phone: 410.770.9081 | Fax: 410.770.3667

Professional Certification 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 Delaware. License No. 8359 Main Office: 106 N Harrison St - Easton, MD 21601 Expiration Date: June 30, 2024



Revisions Heritage Shores - Phase 7A INITIAL SUBMISSION - 08/08/23 FIRST REVISION - 09/18/23 09/18/23 Bridgeville, Delaware - Northwest Fork Hundred First Election District - Sussex County Scale: As Shown Coversheet and General Notes T-1

LEGEND

TOC PATH - SHEET FLOW

TOC PATH - PIPE FLOW

STATIC WATER ELEVATION

LIMITS OF DISTURBANCE ---- EASEMENTS

EXISTING CONTOUR PROPOSED CONTOUR

EXISTING STORM DRAIN PROPOSED STORM DRAIN

SOILS BOUNDARY

SANITARY SEWER SERVICE LATERAL AND CLEANOUT SANITARY SEWER MAIN AND MANHOLE

WATER SERVICE LATERAL AND METER VAULT

FIRE HYDRANT AND WATER VALVE

INLET PROTECTION - TYPE 3 (CSDN-4)

INLET PROTECTION - TYPE 1 (CSDN-2)

RIPRAP OUTLET PROTECTION - 1 (CSDN-3)

SILT FENCE (CSDN-2)



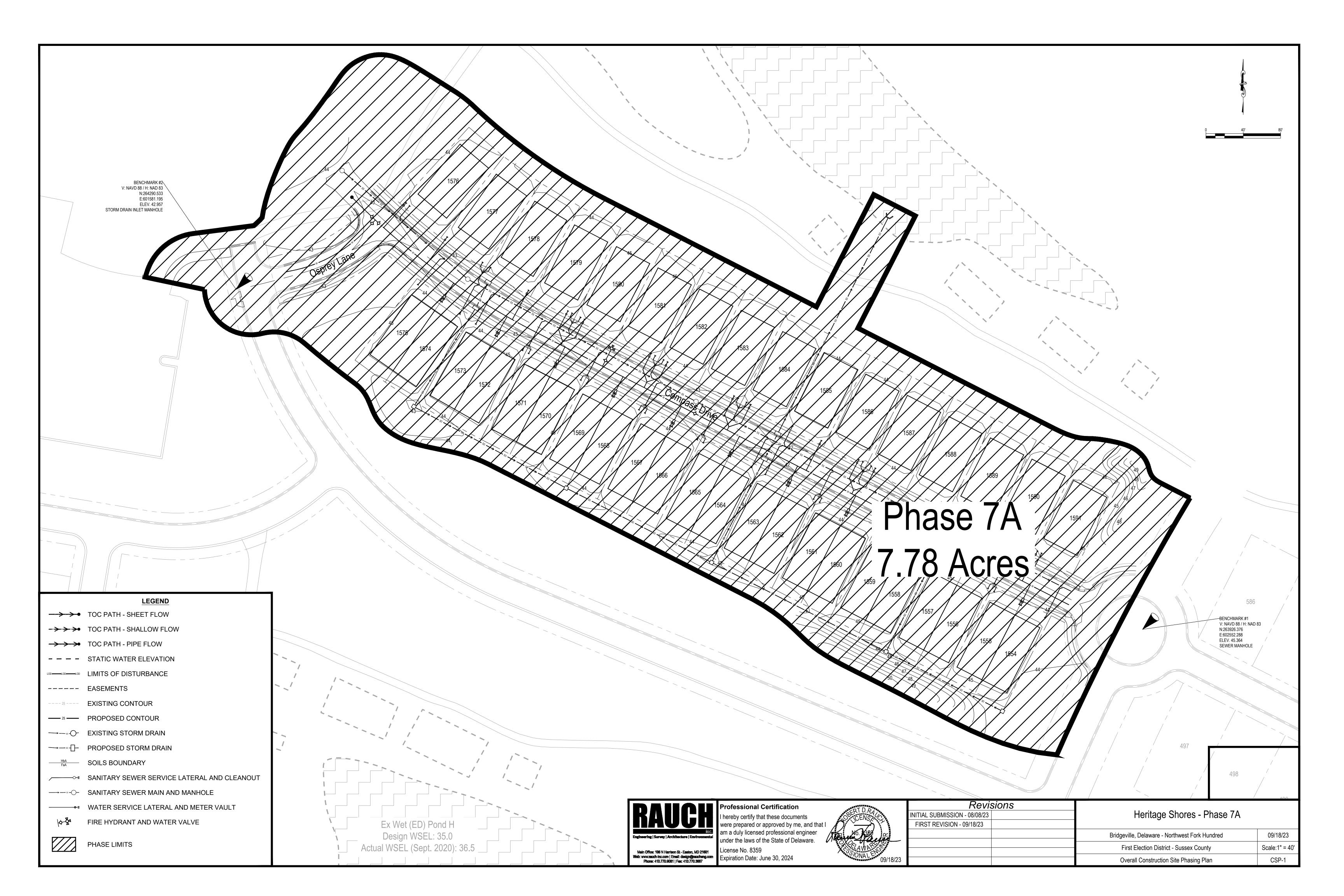
STONE OUTLET SEDIMENT TRAP (CSDN-2)

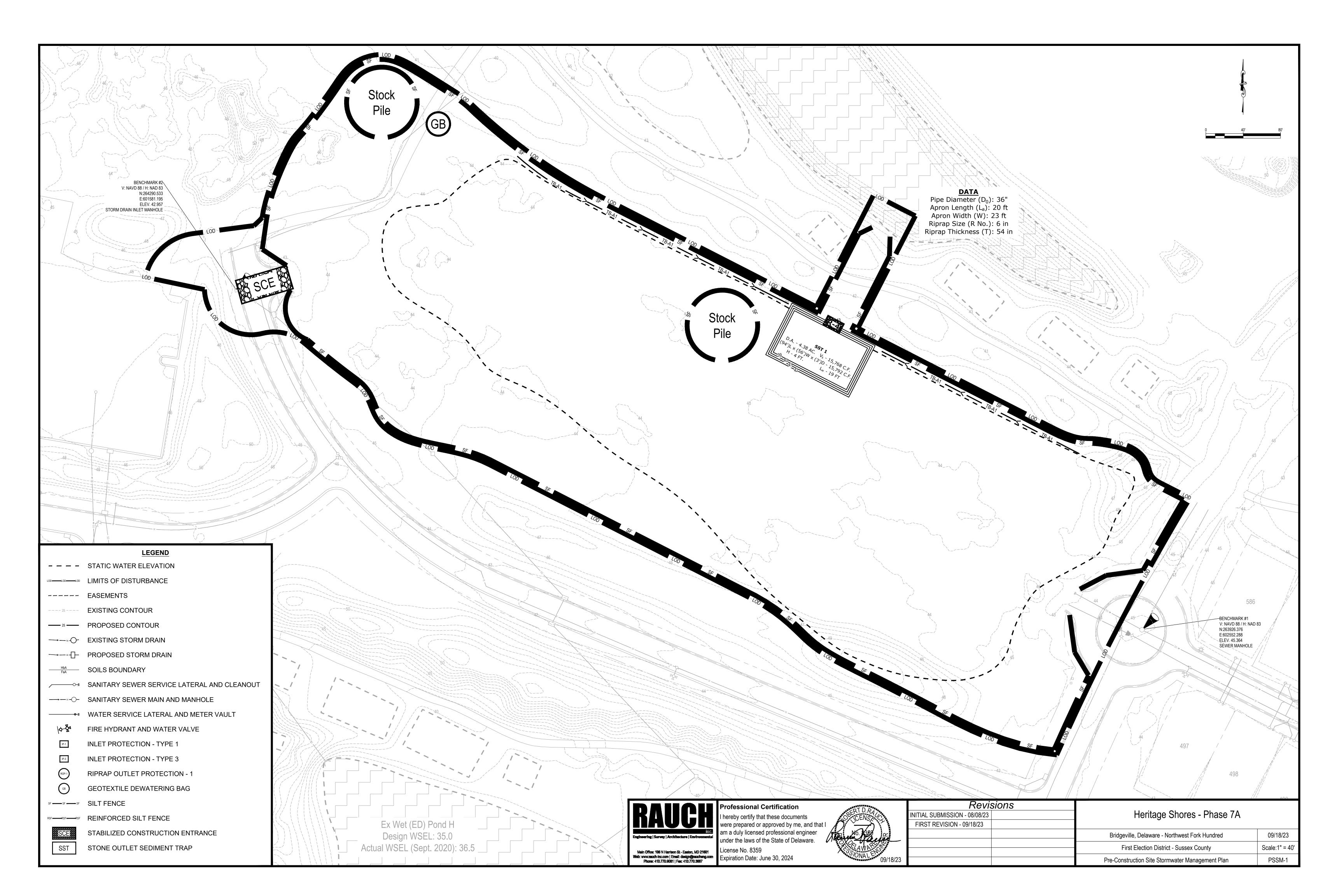
STUDY POINT POST DEVELOPMENT DA

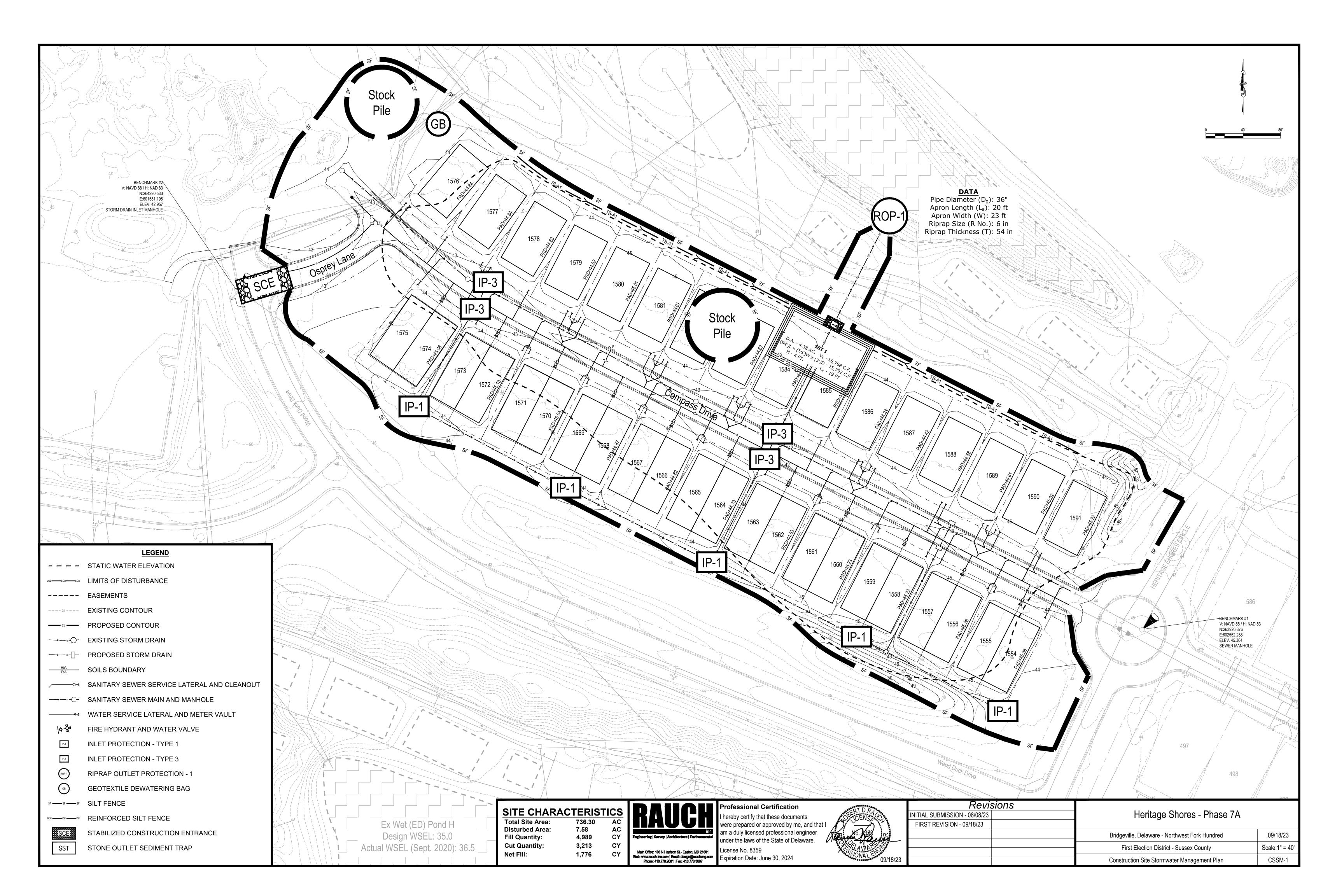
GEOTEXTILE DEWATERING BAG (CSDN-2)

STUDY POINT LOCATION

STABILIZED CONSTRUCTION ENTRANCE (CSDN-5)





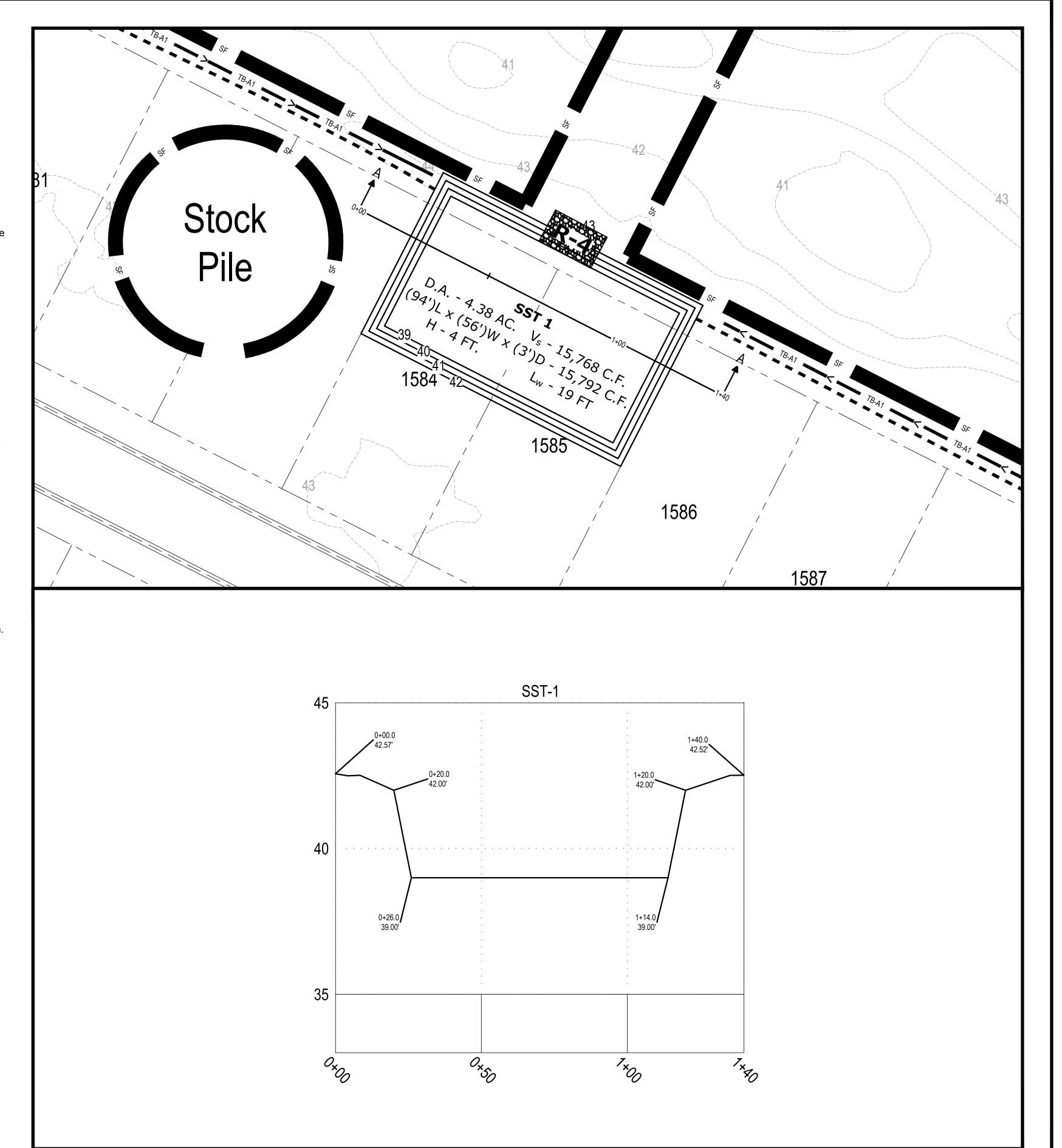


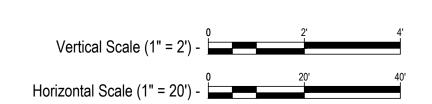
CONSTRUCTON NOTES

- 1. Passwaters Farm LLC shall be responsible for maintenance and repair of all sediment control and stormwater management practices during construction and utility installation.
- 2. Passwaters Farm LLC certifies that DNREC or a delegated inspection agency shall have access to the site for the completion of on-site inspections.
- 3. Batter Board Water Control Structures shall be installed per the typical detail at the inlet end of all pipes discharging from ponds serving as sediment basins.
- 4. 9" 18" of topsoil shall be stripped from all road right-of-ways and stockpiled in designated areas.
- 5. Water shall be sprinkled on disturbed areas to control dust when necessary.
- 6. Due to the size of the stormwater management ponds and excess capacity, sediment from construction will not be removed from the existing ponds. The existing stormwater management ponds will not be dewatered at any time during construction, unless under the direction of DNREC or Sussex Conservation District.
- 7. All slopes steeper than 4:1 shall be stabilized with Excelsior "Curlex 1" matting, or approved equal. Matting shall be installed in accordance with manufacturers specifications. Matting shall not be installed below the static water level of the ponds.
- 8. Sediment accumulation in the 0% grade pipes connecting the proposed ponds shall be cleaned when the sediment interferes with the normal operation of the pipe. The pipes shall be cleaned with high pressure hoses. Sediment control silt fences at the entrance of the discharge pipe shall be maintained during the pipe cleaning process.

SEQUENCE OF CONSTRUCTION

- 1. Notification. Note: Notify the Sussex Conservation District in writing at least five (5) days prior to the start of construction. Failure to do so constitutes a violation of the approved Sediment and Stormwater Management Plan.
- 2. Pre-construction meeting. Note: Prior to any clearing, installation of sediment control measures or grading, a pre-construction meeting shall be scheduled and conducted with the Agency Construction Site Reviewer. The landowner/developer, contractor, and third party Certified Construction Reviewer (CCR) are required to be in attendance at the pre-construction meeting; the designer is recommended to attend.
- 3. Maintenance of construction site stormwater management BMPs. Note: The contractor should at all times protect against sediment or debris laden runoff or wind from leaving the site. Perimeter controls should be checked daily and adjusted and/or repaired to fully contain and control sedimentation on the site. Accumulated sediment should be removed when it has reached half of the effective capacity of the control. In addition, the contractor may need to adjust or repair measures in times of adverse weather conditions, or as directed by the Agency Construction Site Reviewer.
- 4. Repair or replace any damaged perimeter controls established in previous phases of construction.
- 5. Stakeout location of Sediment Control Devices
- 6. Install Stabilized Construction Entrance
- 7. Clear and grub area necessary to install perimeter controls
- 8. Install Silt Fence, all perimeter controls and sediment traps.
- 9. Perimeter control review. Note: All perimeter controls are to be reviewed by the Agency Construction Site Reviewer and approved prior to proceeding with further site disturbance or construction.
- 10. Concurrent Grading Activities (No more than 20 Acres may be disturbed at one time) Note: Prior to commencing a new phase of construction, the contractor shall receive approval from the Agency Construction Site Reviewer that the previous phase has been sufficiently stabilized.
- 10.1. Phase 7A (7.78 Acres)
- 10.1.1. Strip and stockpile topsoil within road right of way
- 10.1.2. Grade to design subgrade
- 10.1.3. Install Storm drains (7A-1 to 7A-7, 7A-9 to 7A-5, 7A-11 to 7A-10)
- 10.1.4. Install inlet protection
- 10.1.5. Install stabilized outfall (7A-8)
- 10.1.6. Install gravity sewer with sewer laterals and cleanouts (SSMH 7A-1 to EX SSMH 4F-38)
 10.1.7. Backfill and compact SS trench with select material at specified lifts and compaction to design subgrade
- 10.1.8. Install watermain with services to lot lines
- 10.1.9. Raise stormdrain inlets and install and compact road base material
- 10.1.10. Reinstall inlet protection
- 11. Install Curb and finish SD Inlets
- 12. Install base paving
- 13. Finish grade lots and stabilize
- 14. Sediment trap conversion
- 15. Removal of sediment control practices. Note: Erosion and sediment control devices to be removed only after work in an area has been completed and stabilized, with written approval from the Agency Construction Site Reviewer.
- 16. Project closeout. Note: The termination of the Construction General Permit will require submission and acceptance of the Post Construction Verification Documents, including final stabilization throughout the site, all elements of the Sediment and Stormwater Management Plan implemented, and acceptance of the final Operation and Maintenance Plan.



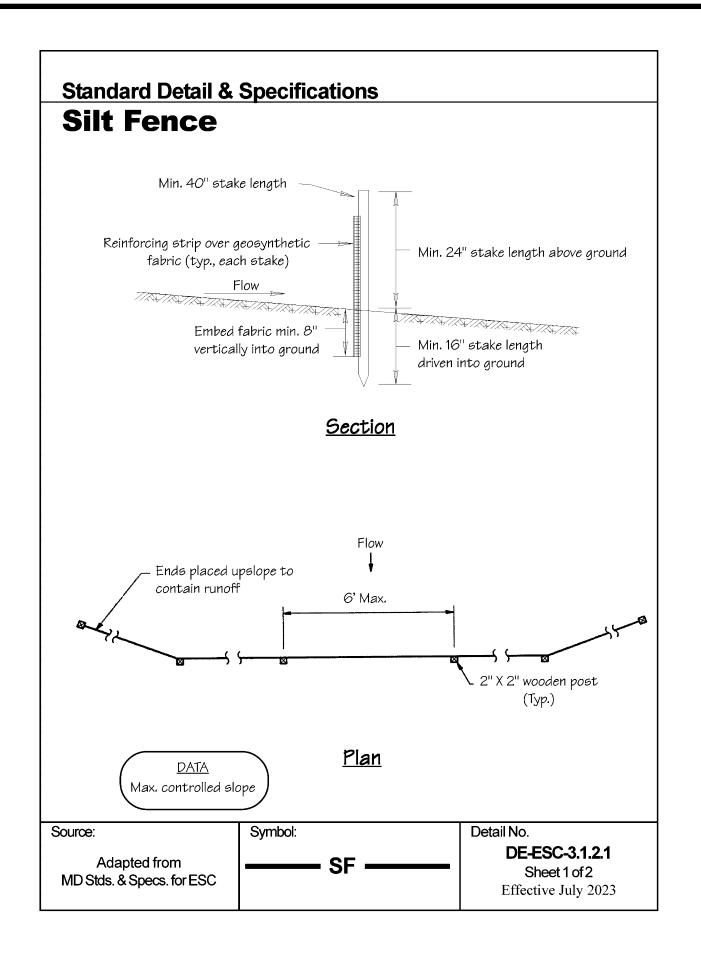


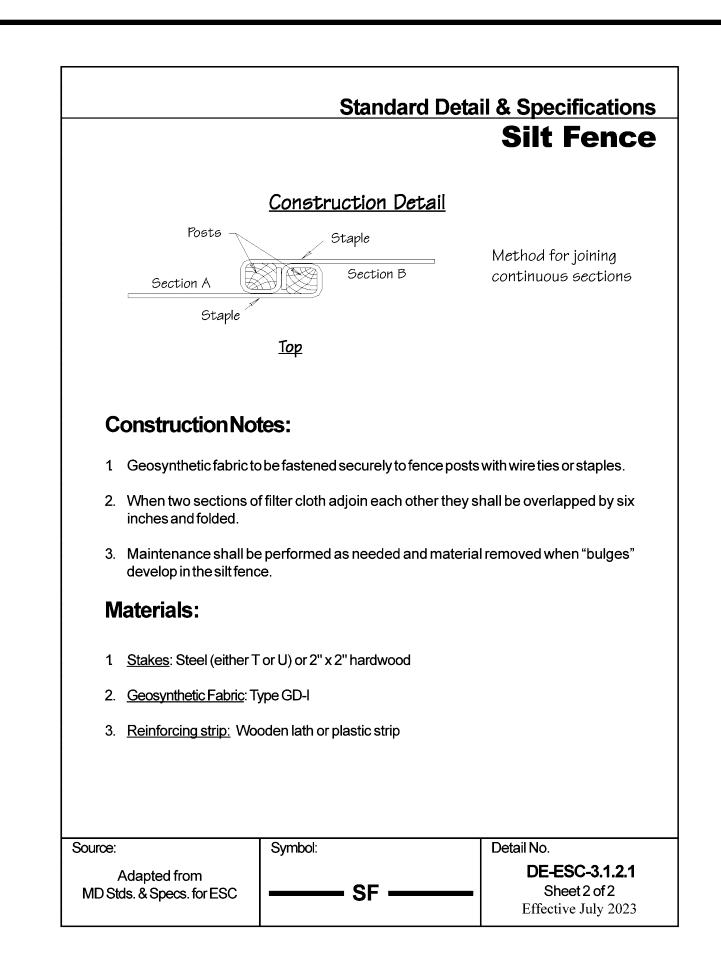


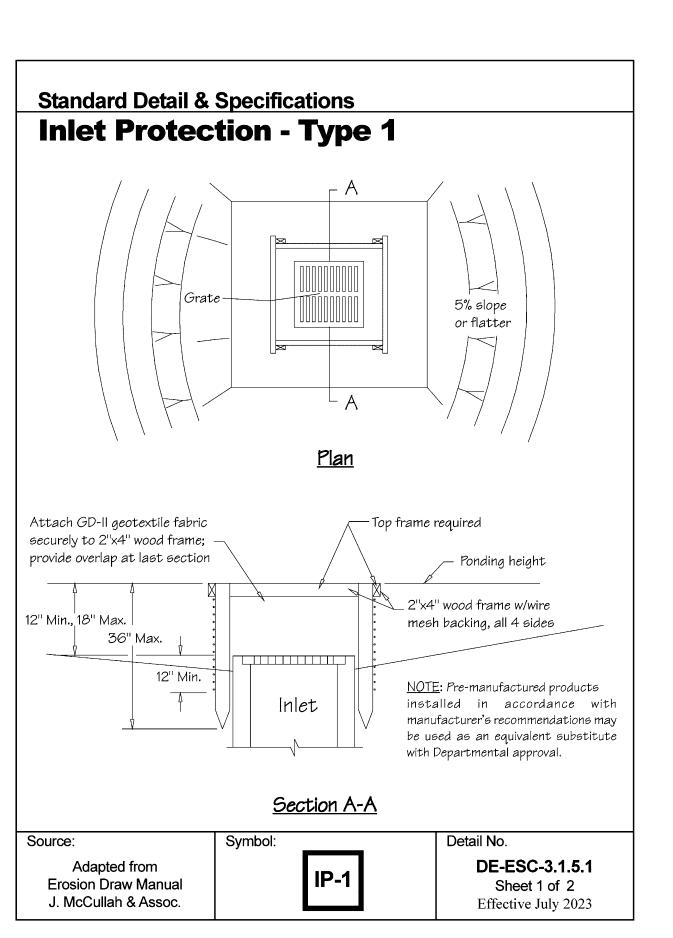
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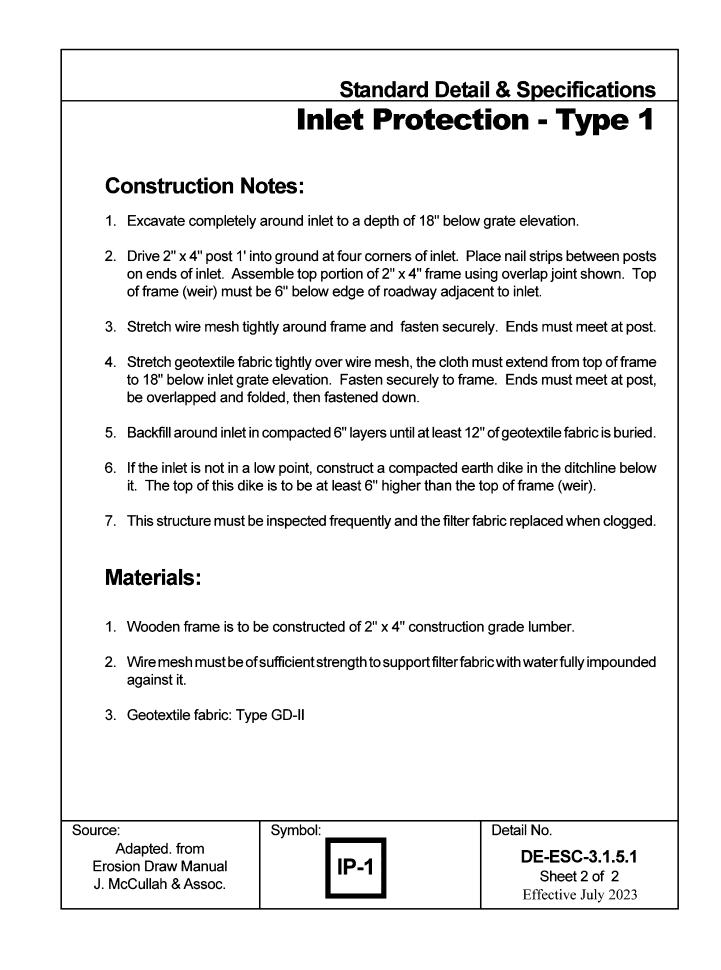


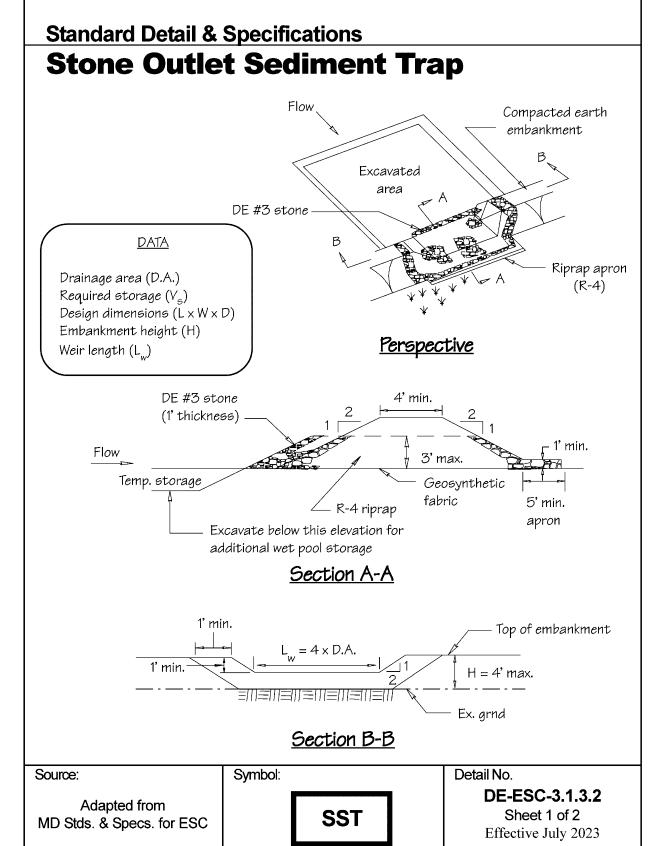
Revisions		
NITIAL SUBMISSION - 08/08/23	Heritage Shores - Phase 7A	
FIRST REVISION - 09/18/23		
	Bridgeville, Delaware - Northwest Fork Hundred	09/18/23
	First Election District - Sussex County	
	Construction Site Details and Notes	CSDN-1

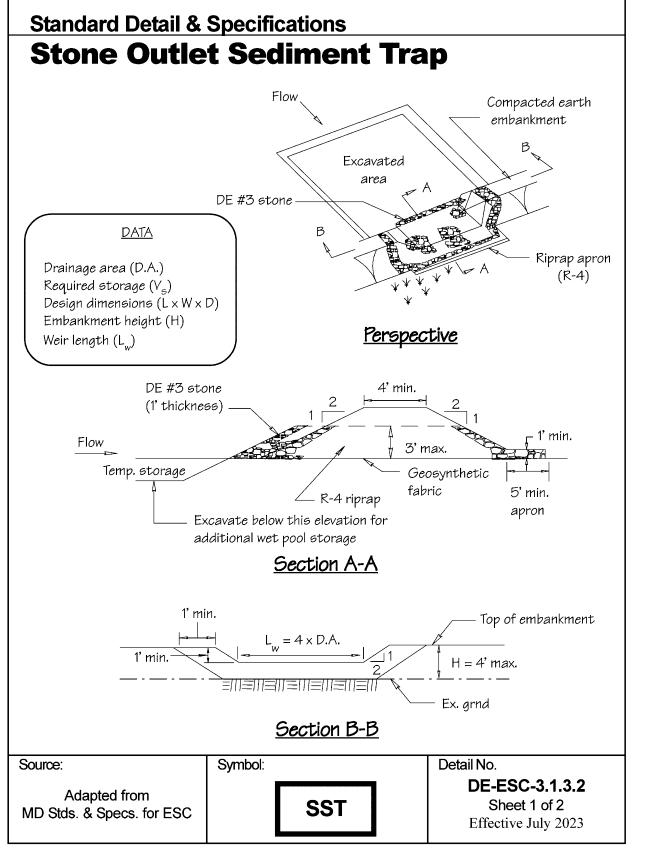


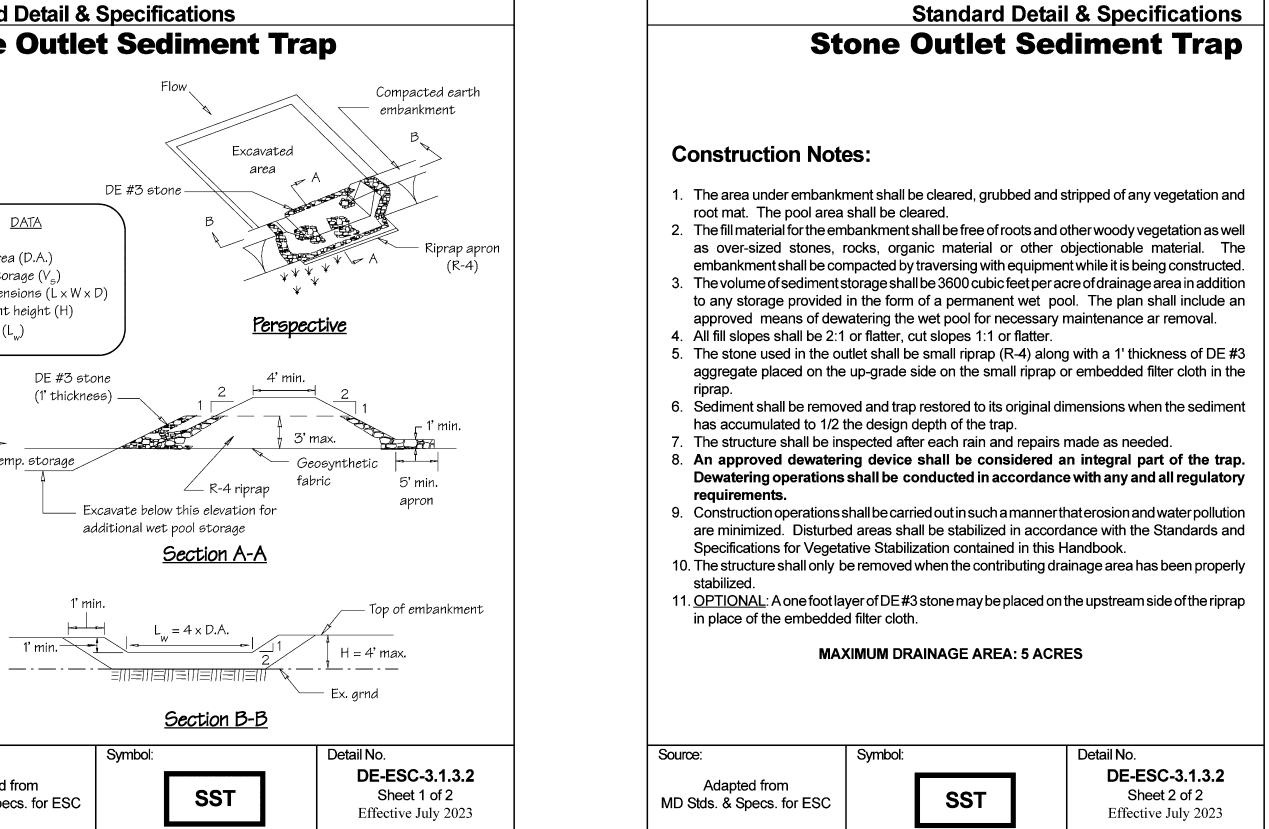


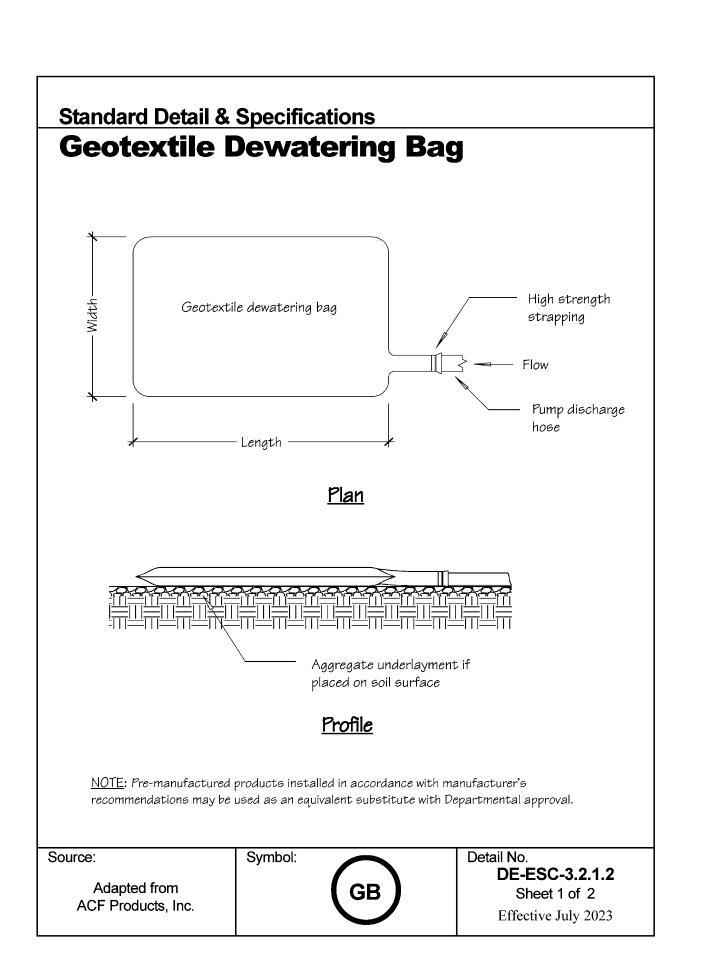


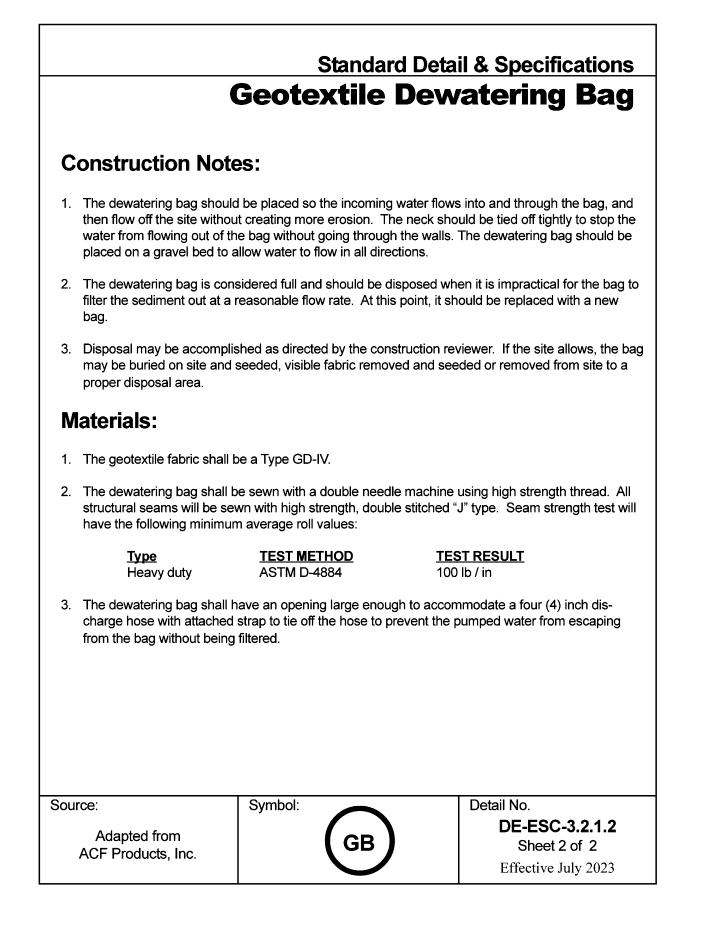




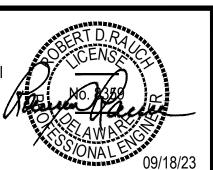




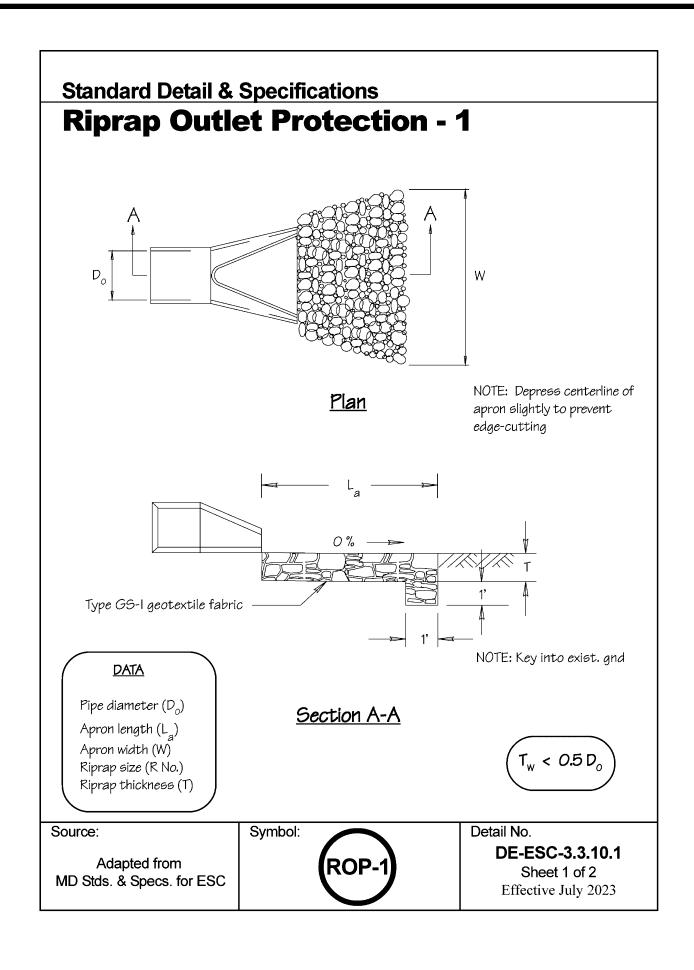


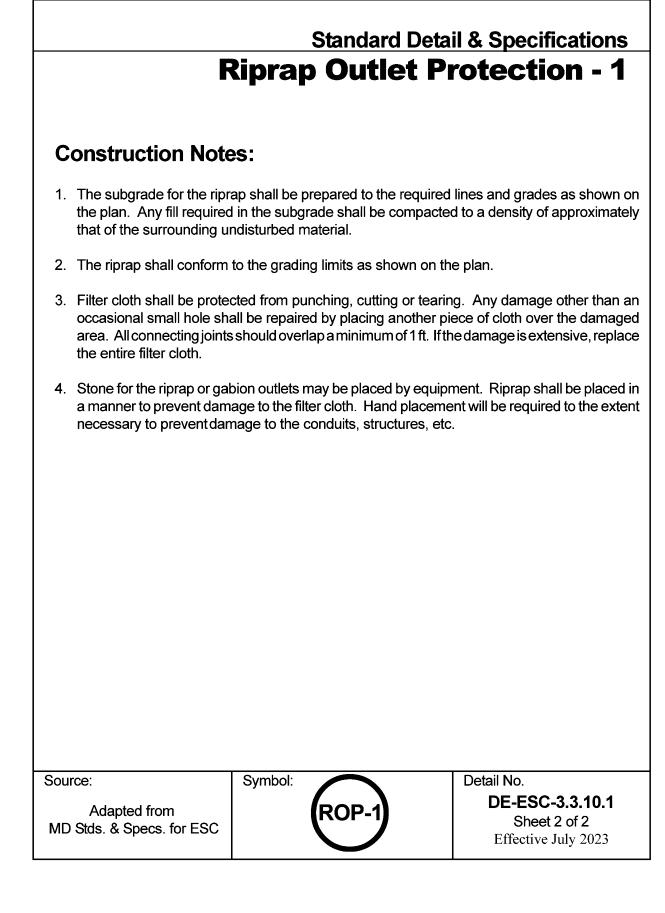


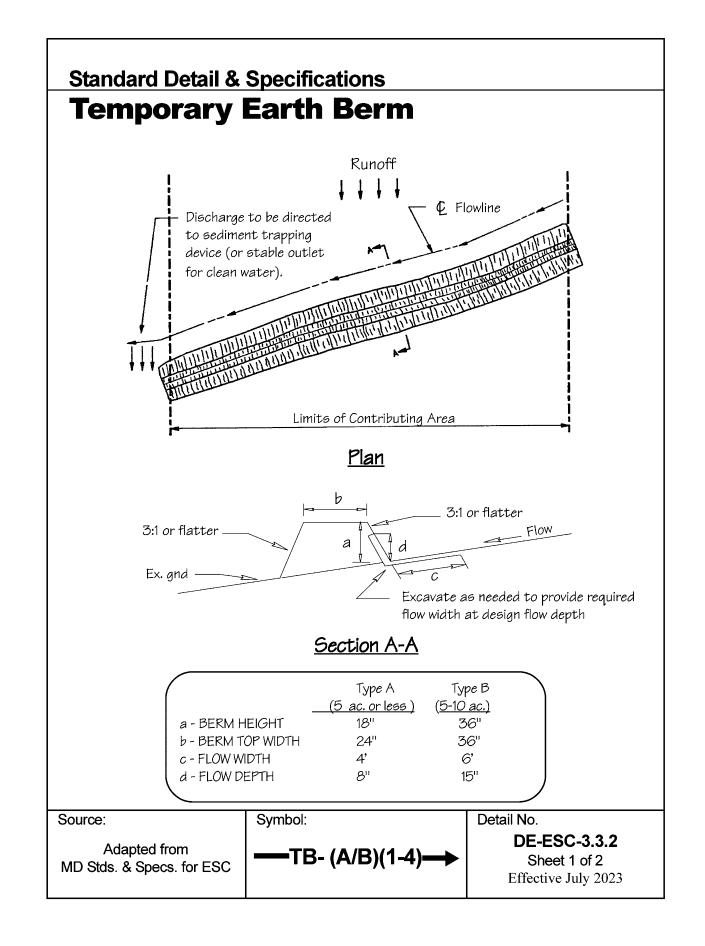


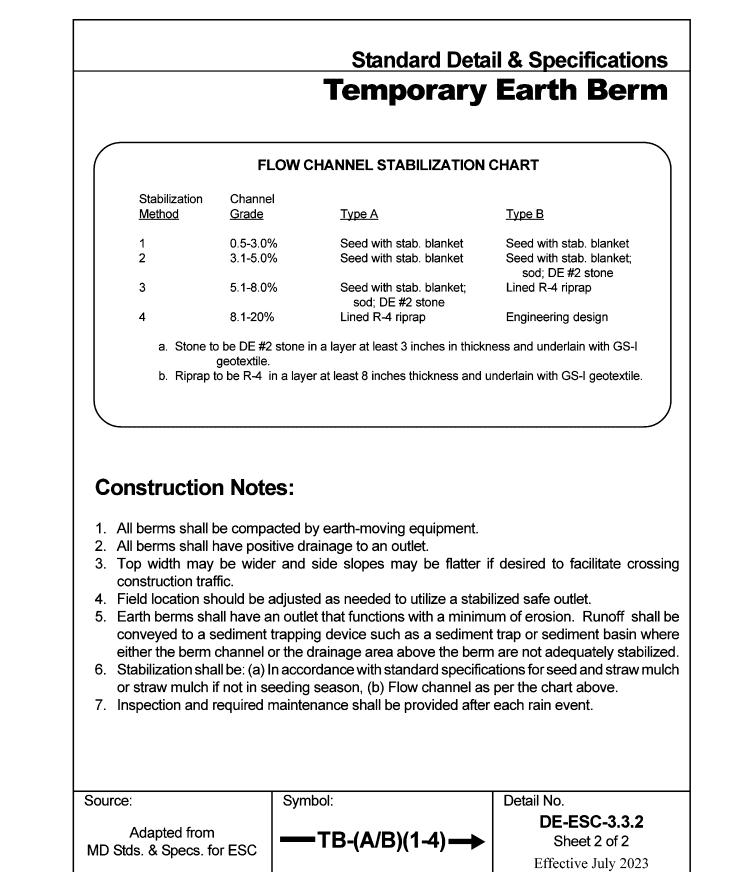


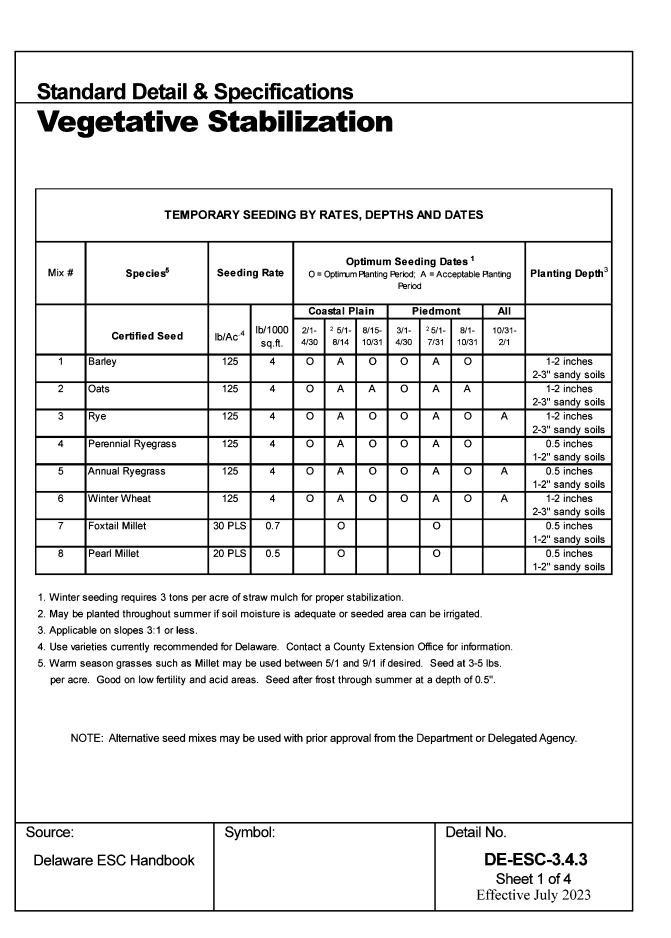
Revisions		
IITIAL SUBMISSION - 08/08/23	Heritage Shores - Phase 7A	
FIRST REVISION - 09/18/23		
	Bridgeville, Delaware - Northwest Fork Hundred	09/18/23
	First Election District - Sussex County	
	Construction Site Details and Notes	CSDN-2

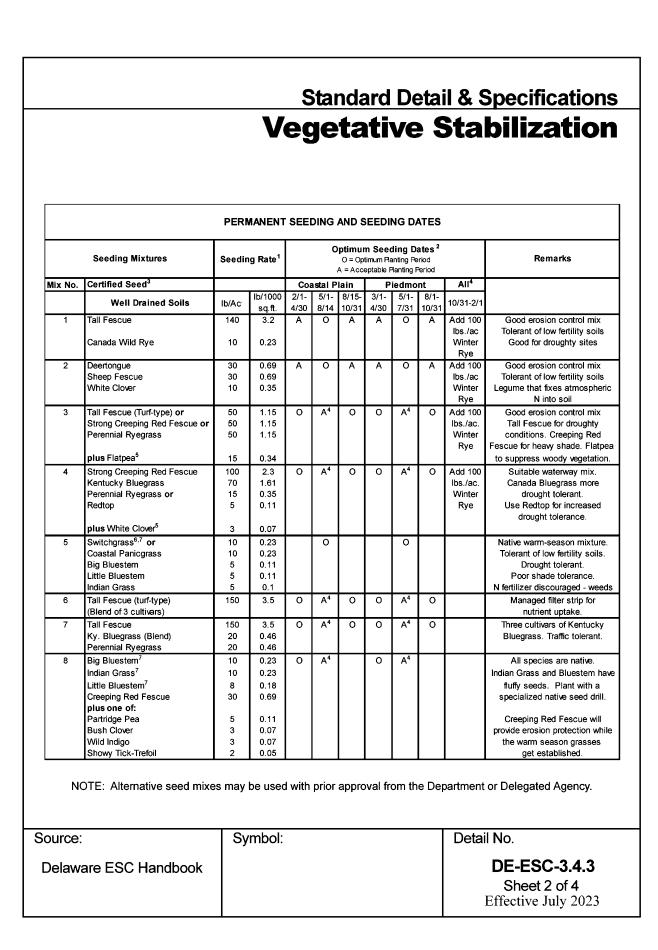


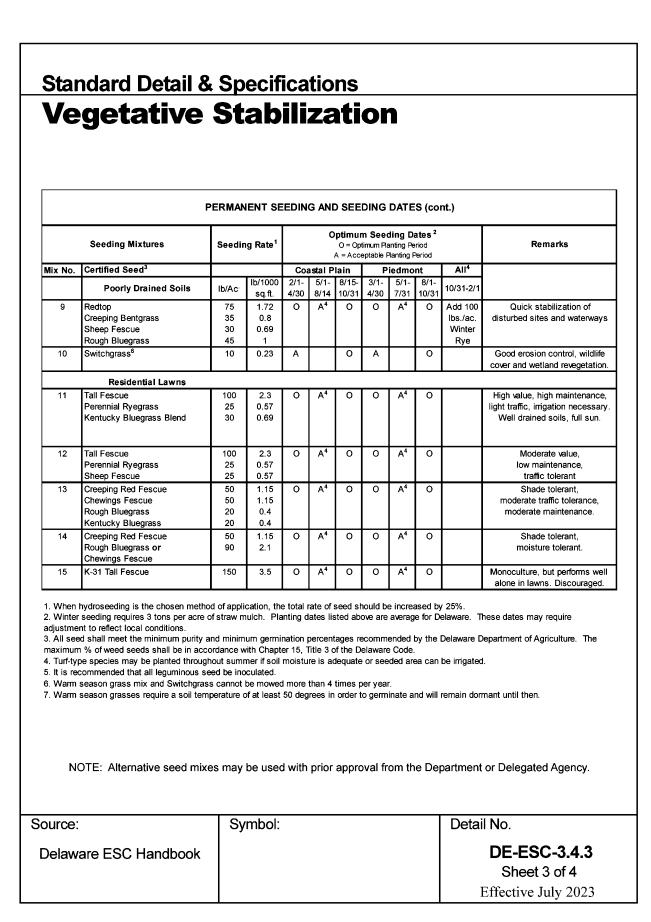


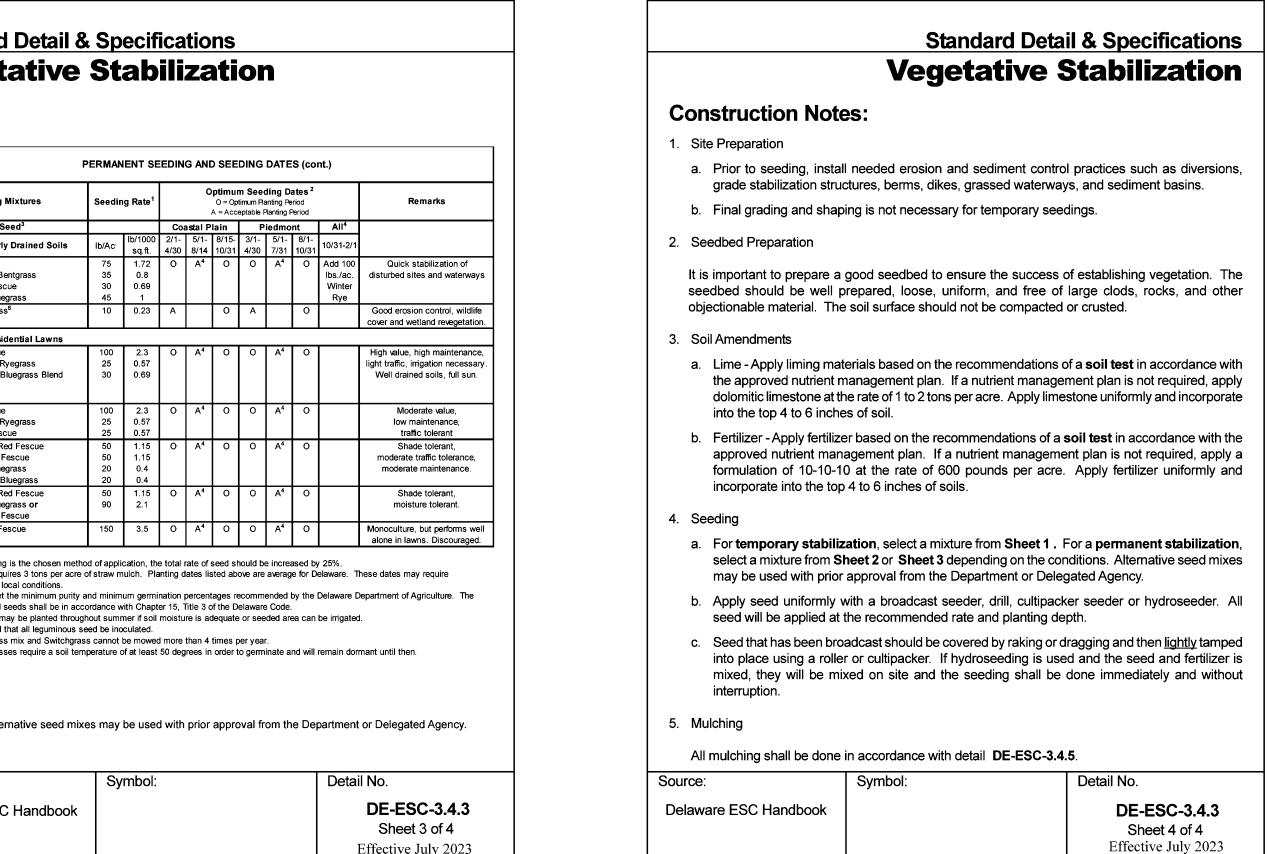




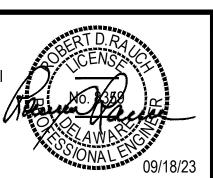




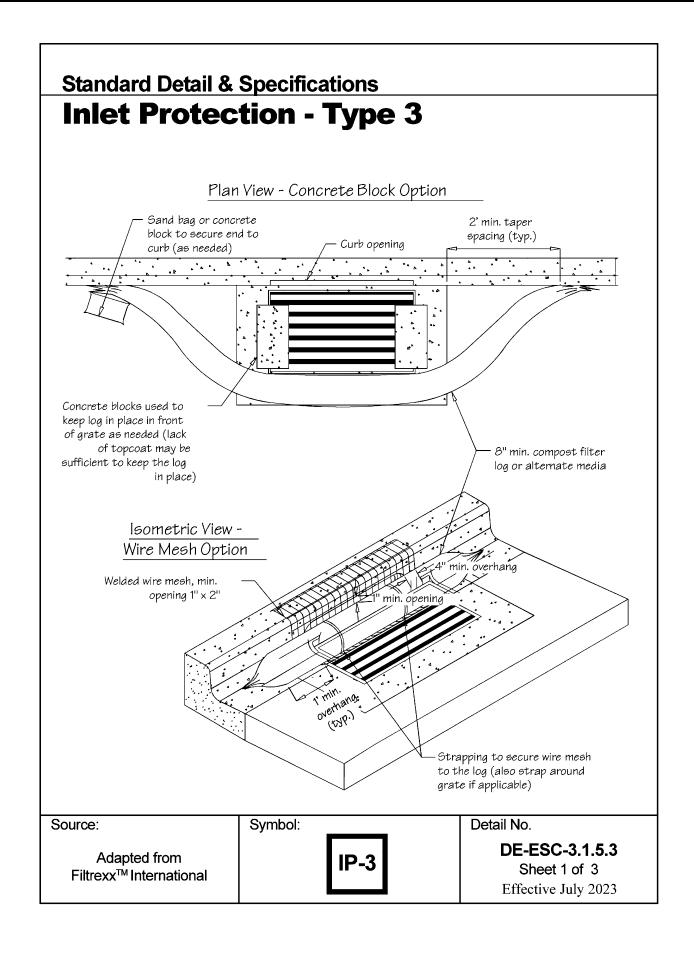








Revisions		
NITIAL SUBMISSION - 08/08/23	Heritage Shores - Phase 7A	
FIRST REVISION - 09/18/23		
	Bridgeville, Delaware - Northwest Fork Hundred	09/18/23
	First Election District - Sussex County	
	Construction Site Details and Notes	CSDN-3



Standard Detail & Specifications

Inlet Protection - Type 3

Notes:

- 1. This practice shall only be used in situations in which Inlet Protection Type 1 cannot be used due to site constraints. These include, but are not limited to partially complete parking areas, streets, roads, etc., having a throat or curb opening. It should be used in conjunction with Type 2 Inlet Protection when a grate is also present.
- 2. The filter log sock fabric shall be high durability netting material to resist puncture and wear in the traffic areas. If compost media is used to fill the sock it must meet the Standards and Specifications for Compost Material in the Appendix, except that the maximum pass through for a 3/8" screen shall be 20% to allow for higher flow through. Additives, such as soluble phosphorus and petroleum hydrocarbons, can be mixed with the compost media to aid in pollutant removal, if desired. Reference the Compost Filter Log design guidelines for additional requirements on the high durability netting material, compost media, and sock filling and installation procedures. Reference the design alternatives below for additional log media options.
- 3. The maximum contributing drainage area shall be 3 acres, or as recommended by the manufacturer. 8" diameter socks shall be used for standard roadway applications. If in a highly disturbed area, the Engineer or Site Reviewer may opt for larger socks, either 12" or 18" depending on the need. (If used as a replacement for Type 1 Inlet Protection with special approval, minimum 12" diameter socks shall be used.) The top of the log may need to be flattened so that it is always below the top of curb elevation with a minimum 1" opening in order to prevent localized flooding.
- 4. Concrete blocks shall be used to aid in the log shape and prevent it from entering into the throat. They should be placed between the log and the throat opening, and used to secure the ends of the log against the curb if needed. The end of the log shall extend a minimum of 2 feet past the end of the throat opening. If a grate is also present in addition to the throat opening, the concrete blocks can either be laid perpendicular to the curb (recommended) so that the log lies ainst

Type 2 Inlet Protection is	s also used in conjunction with 1	t the log lies on top of the grate (note, Fype 3 if a grate is present). Sand bags le end of the log to secure the log again
Source:	Symbol:	Detail No.
Adapted from	ID 2	DE-ESC-3.1.5.3

Standard Detail & Specifications

Inlet Protection - Type 3

- 5. If concrete blocks are not desired due to high traffic volumes, a welded wire screen in an "S" shape can be fitted over the length of the opening and secured to the log with straps, such as zip-ties. This will prevent the sock from falling into the opening. In this case, the log only needs to extend past the curb opening a minimum of 1 foot.
- 6. In all cases, the log shall provide a physical barrier to the catchbasin to allow for ponding and sedimentation along the upstream side of the log. The logs shall be placed on flat surfaces and maintain constant contact with the paved surface. Any daylight will allow for untreated discharge and is not permitted.
- . All structures must be inspected frequently (24 hours after a storm event and weekly) for proper function. Accumulated sediment shall be removed to avoid future failure, and must not exceed half of the effective height of the log. Reference manufacturer's recommendations for additional maintenance.

Alternatives:

- 1. In lieu of the compost filter log, crushed DE #3 stone with a fractured face on all sides that is double wrapped in 1" chicken wire made from 10 gauge wire may be used. The wire should be secured using hog rings or wire ties on 6" centers along the length of the joint, and on 1" center on the ends of the rock sock. All installation and maintenance criteria are the same as the compost log above.
- 2. In lieu of the compost filter media, 100% shredded rubber (typically from tires) can be used.
- 3. For applications that have a grate and a throat inlet, some Type 2 Inlet Protection manufacturers have developed a catchbasin sack insert that also have a tubular attachment which rests above the grate and against the throat. As long as the sack meets the requirements of Type 2 Inlet Protection, and the provided throat protection extends a minimum of 1' past the limits of the curb opening, without any daylight along the edges, these combination Type 2 and Type 3 devices may be used upon approval of the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Adapted from Filtrexx™International	IP-3	DE-ESC-3.1.5.3 Sheet 3 of 3
		Effective July 2023

Standard Detail & Specifications

Dust Control

Temporary Methods:

- 1. Mulches See **DE-ESC-3.4.5**, Standard Detail and Specifications for Mulching.
- 2. Vegetative cover See DE-ESC-3.4.3, Std. Detail and Specifications for Vegetative
- 3. Adhesives Use on mineral soils only (not effective on muck soils). Keep traffic off these areas. The following table may be used for general guidance.

Type of <u>Emulsion</u>	Water <u>Dilution</u>	Type of <u>Nozzle</u>	Apply <u>Gal/Ac.</u>
Latex emulsion	12.5:1	Fine spray	235
Resin-in-water emulsion	4.1	Fine spray	300
Acrylic emulsion (non-traffic)	7:1	Coarse spray	450
Acrylic emulsion (traffic)	3.5:1	Coarse spray	350

- 4. Tillage For emergency temporary treatment, scarify the soil surface to prevent or reduce the amount of blowing dust until a more appropriate solution can be implemented. Begin the tillage operation on the windward side of the site using a chisel-type plow for best results.
- 5. Sprinkling Sprinkle site with water until the surface is moist . Repeat as needed.
- 6. Calcium Chloride Apply as flakes or granular material with a spreader at a rate that will keep the soil surface moist. Re-apply as necessary.
- 7. Barriers Place barriers such as solid board fences, snow fences, hay bales, etc. at right angles to the prevailing air currents at intervals of approx. 10X their height.

Permanent Methods:

- 1. Vegetative cover See DE-ESC-3.4.3, Std. Detail and Specifications for Vegetative
- 2. Stone Apply layer of crushed stone or coarse gravel to protect soil surface.

Source:	Symbol:	Detail No.
Adapted from		DE-ESC-3.4.8
VA ESC Handbook		Sheet 1 of 1
		Effective July 2023

Standard Detail & Specifications

Construction Site Pollution Prevention

Delaware NPDES Discharge Permit General Permit for Discharge of Stormwater from Construction Activities

((Project Name))

((NOI Permit Number))

((Agency Plan Approval ID))

((Contact Name & Number for Additional Site Information))

((Contact Name & Number to Obtain Copy of Approved Plan))

If you observe indicators of stormwater pollutants in the discharge or in the receiving waterbody, call the DNREC Spill Notification 24 HR Hotline at

1-800-662-8802

Example Construction General Permit (CGP) Signage

NOTES: 1. Minimum sign size 2' x 2'

2. Minimum text size 1" 3. Sign must be posted at a safe, publicly accessible location close to construction site

4. Sign must be visible from the public road nearest the active construction site 5. Signs posted within a DelDOT or other public road right-of-way (ROW) must be in accordance with all local and/or State requirements in regards to safety, location, orientation, etc.

Symbol: Detail No. Source: **DE-ESC-3.6.1** Delaware ESC Handbook Sheet 1 of 4 Effective July 2023

Standard Detail & Specifications

Sheet 2 of 3

Effective July 2023

Construction Site Pollution Prevention

Notes:

The Construction Site Pollution Prevention Plan includes the following elements:

1. Material Inventory

Filtrexx[™] International

Document the storage and use of the following materials:

- a. Concrete b. Detergents
- c. Paints (enamel and latex)
- d. Cleaning solvents
- e. Pesticides
- f. Wood scraps
- g. Fertilizers h. Petroleum based products
- 2. Good housekeeping practices
- a. Store only enough product required to do the job.
- b. Store all materials in a neat, orderly manner in their original labeled containers and
- c. Do not mix different substances.
- d. When possible, use all of a product prior to disposal of the container.
- e. Manufacturers' instructions for disposal should be strictly adhered to.
- f. Designate someone to inspect all BMPs daily.

3. Waste management practices

- a. Collect and store all waste materials in securely lidded dumpsters in a location that does not drain to a waterbody.
- b. Salvage and/or recycle waste materials whenever possible.
- c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The

licensed trash hauler	is responsible for cleaning out dump	osters.
Source:	Symbol:	Detail No.
Adapted from USEPA Pub. 840-B-92-002		DE-ESC-3.6.1 Sheet 2 of 4 Effective July 2023

Standard Detail & Specifications

Construction Site Pollution Prevention

Notes (cont.)

- d. Dispose of all trash in accordance with all applicable Delaware laws.
- e. Littering is strictly prohibited. Trash cans should be placed at all lunch spots and recycle bins should be placed near the construction trailer.
- f. If fertilizer bags can not be stored in a weather-proof location, they should be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.

4. Equipment maintenance practices

- a. If possible, equipment should be taken to off-site commercial facilities for washing and
- b. If performed on-site, wash vehicles with high-pressure water spray without detergents in an area contained by an impervious berm.
- c. Use drip pans for all equipment maintenance.
- d. Inspect equipment for leaks on a daily basis.
- e. Direct washout from concrete trucks into a temporary pit for hardening and proper disposal.
- f. Equip fuel nozzles with automatic shut-off valves.
- g. Dispose of all used products such as oil, antifreeze, solvents and tires in accordance with manufacturers' recommendations and local, state and federal laws and regulations.

5. Spill prevention practices

Source:

- a. Identify potential spill areas and contain them in covered areas with no connection to the storm drain system.
- b. Post warning signs in hazardous material storage areas.
- c. Perform preventive maintenance on all tanks, valves, pumps, pipes and other equipment as necessary.
- d. Prioritize low or non-toxic substances for use.

ource:	Symbol:	Detail No.
Adapted from USEPA		DE-ESC-3.6.1
Pub. 840-B-92-002		Sheet 3 of 4
		Effective July 202

Standard Detail & Specifications

Construction Site Pollution Prevention

Notes (cont.)

e. Prominently post contact information for reporting spills through the DNREC 24-Hour Toll Free Number.

6. Education

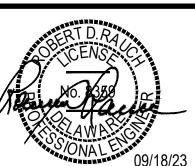
- a. Include Best Management Practices (BMPs) for construction site pollution control as part of regular progress meetings.
- b. Information regarding waste management, equipment maintenance and spill prevention should be prominently posted in the construction trailer.

CONTACT INFORMATION

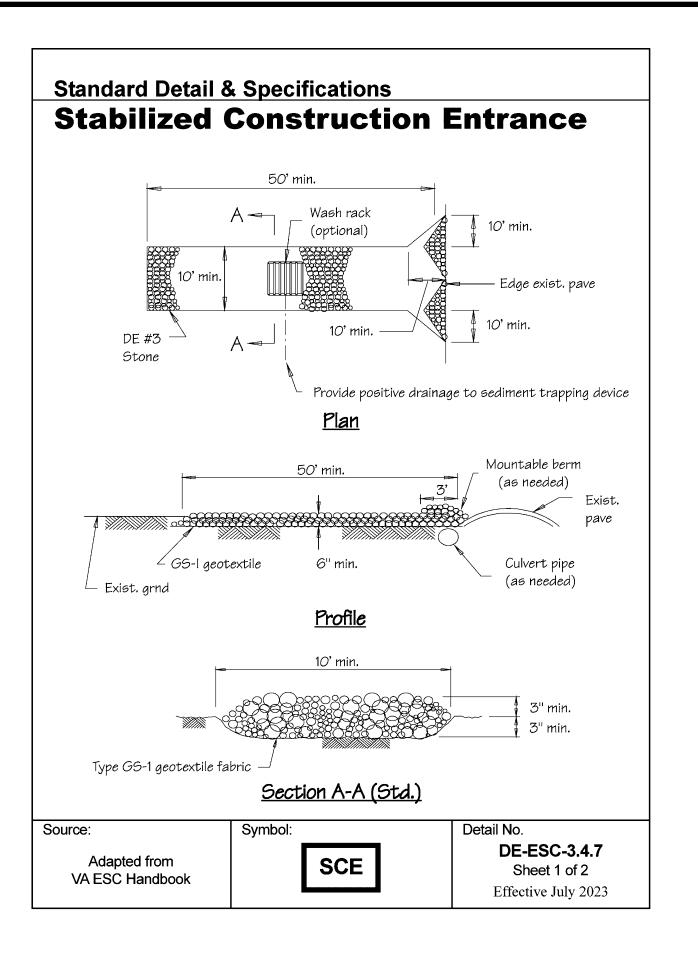
DNREC 24-Hour Toll Free Number 800-662-8802 DNREC Solid & Hazardous Waste Management Section 302-739-9403

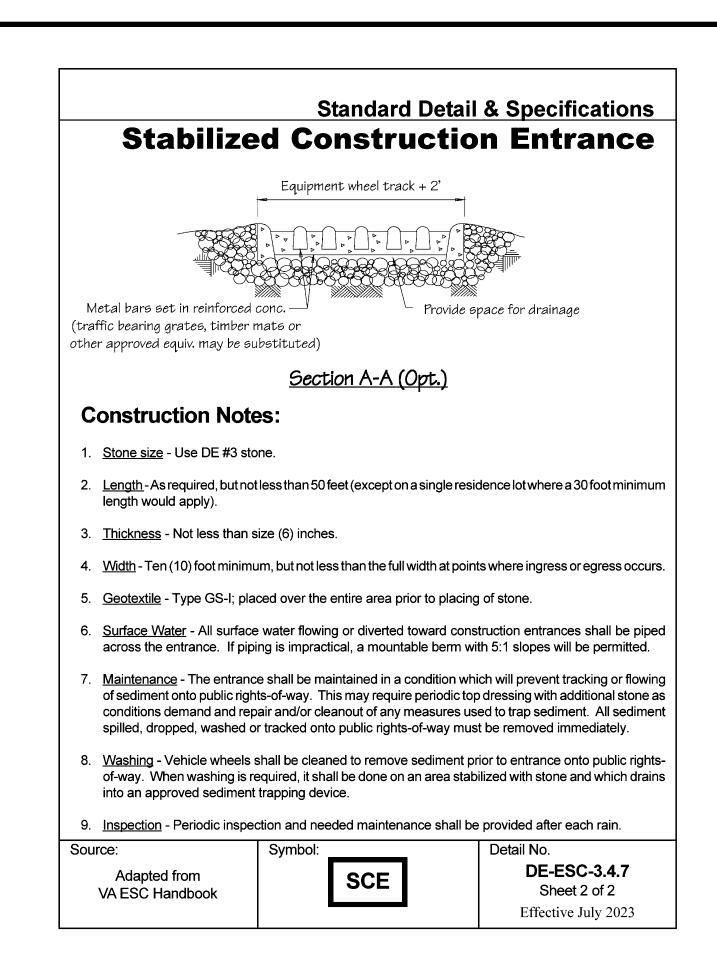
Source: Symbol: Detail No. **DE-ESC-3.6.1** Adapted from USEPA Sheet 4 of 4 Pub. 840-B-92-002 Effective July 2023

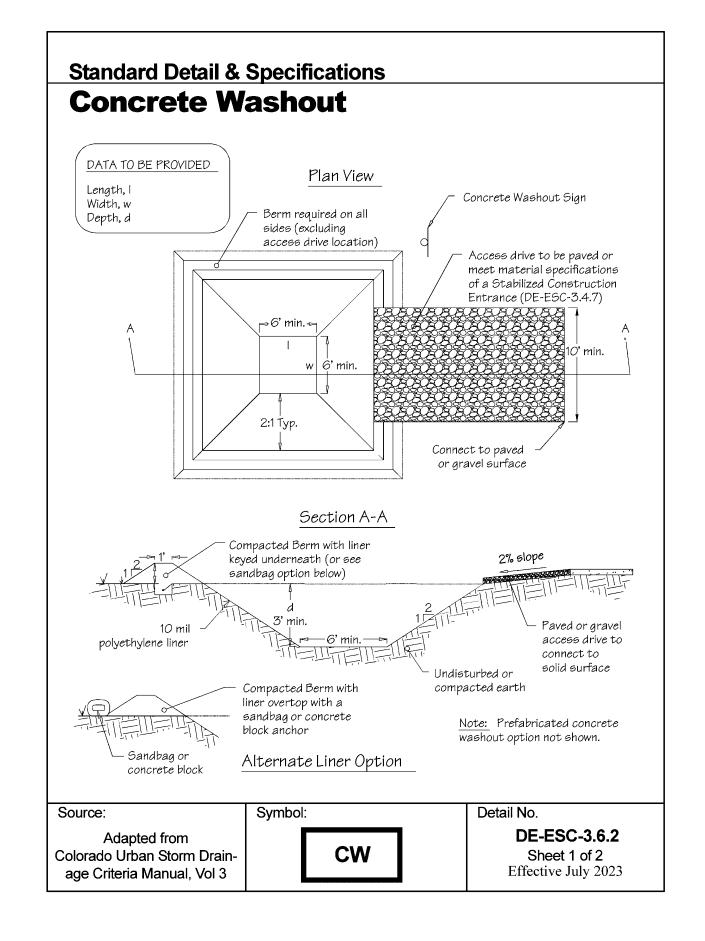


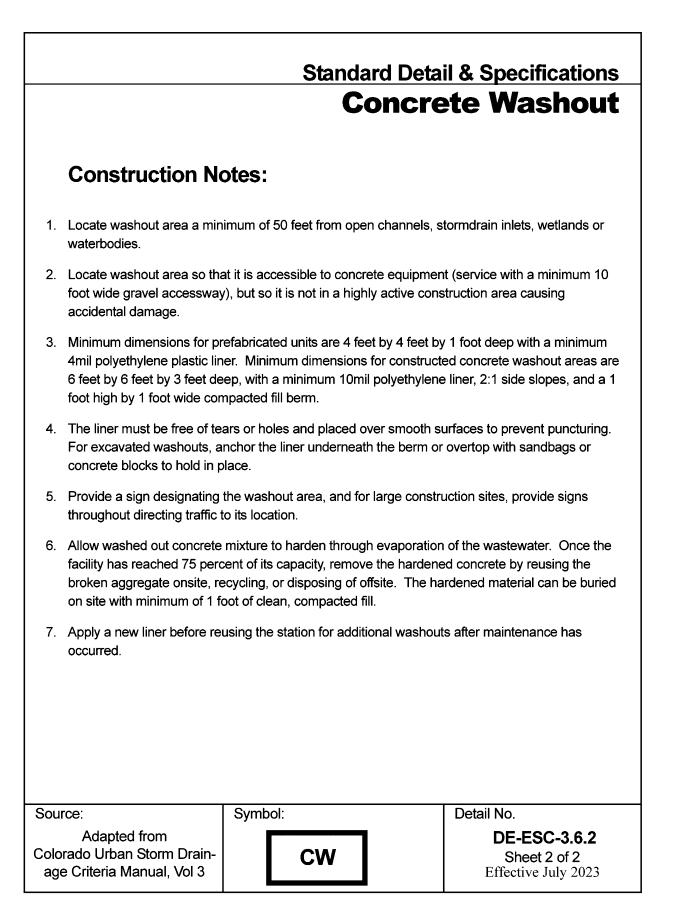


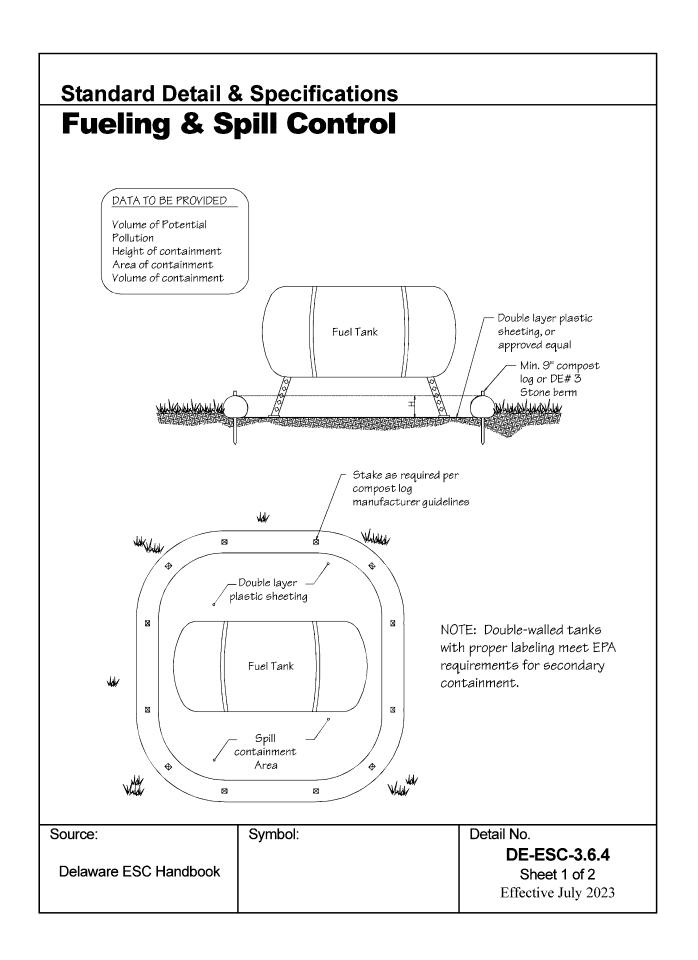
Revisions		
ITIAL SUBMISSION - 08/08/23	Heritage Shores - Phase 7A	
FIRST REVISION - 09/18/23		
	Bridgeville, Delaware - Northwest Fork Hundred	09/18/23
	First Election District - Sussex County	
	Construction Site Details and Notes	CSDN-4

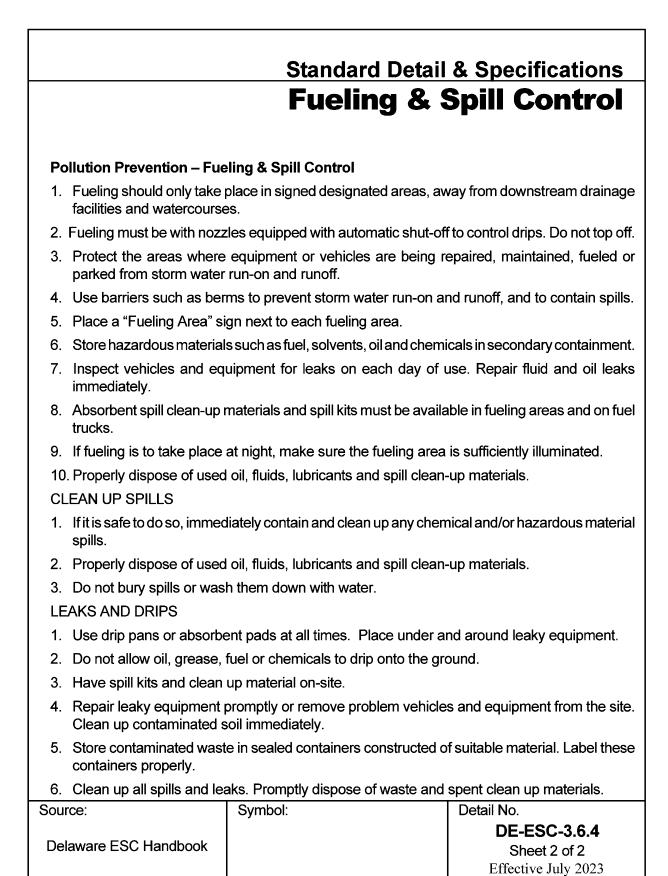


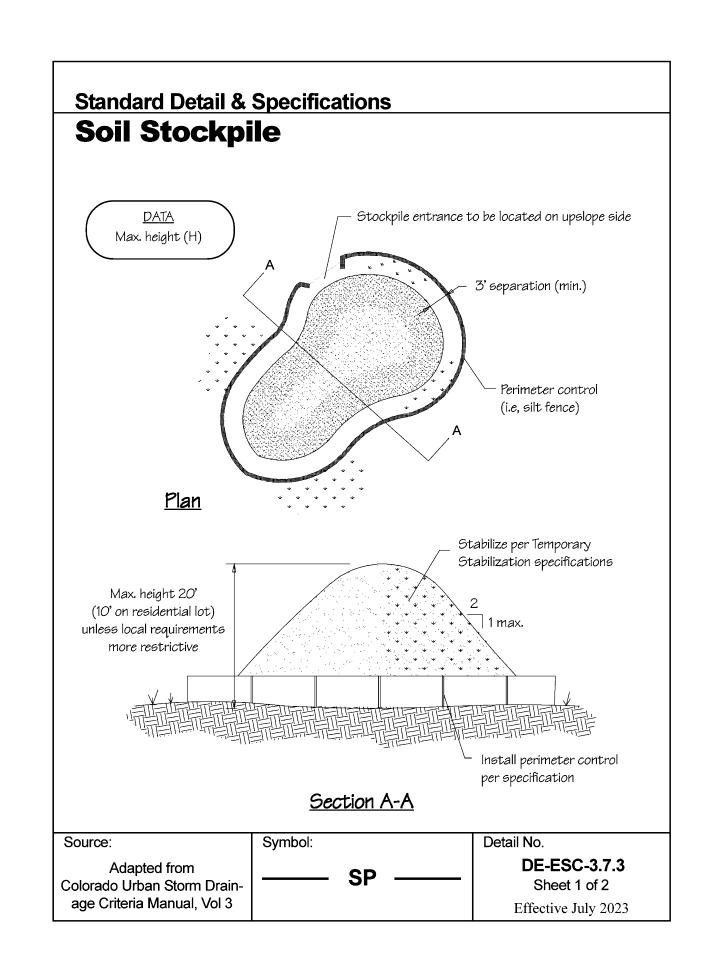


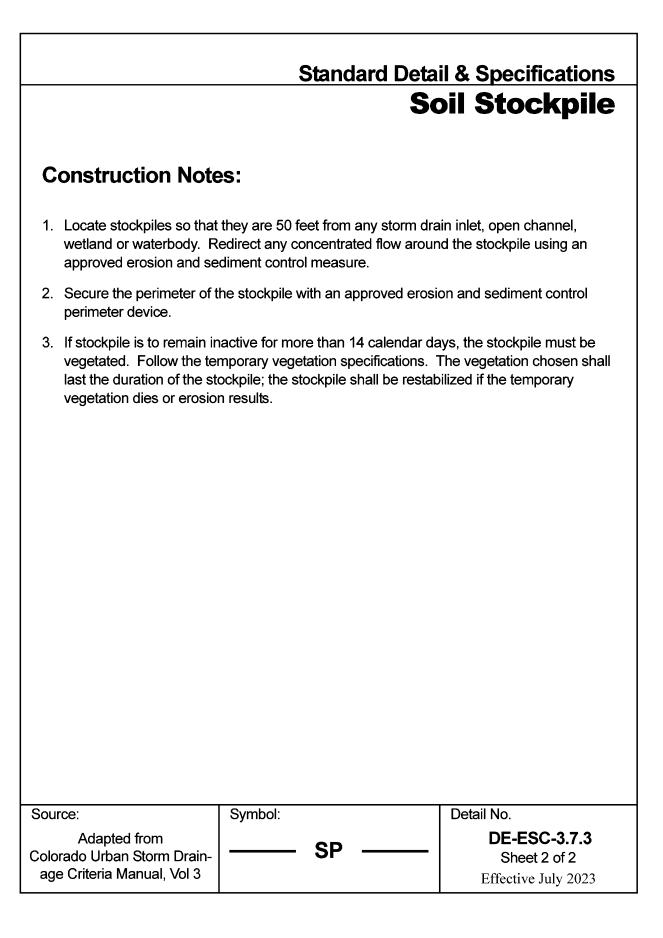








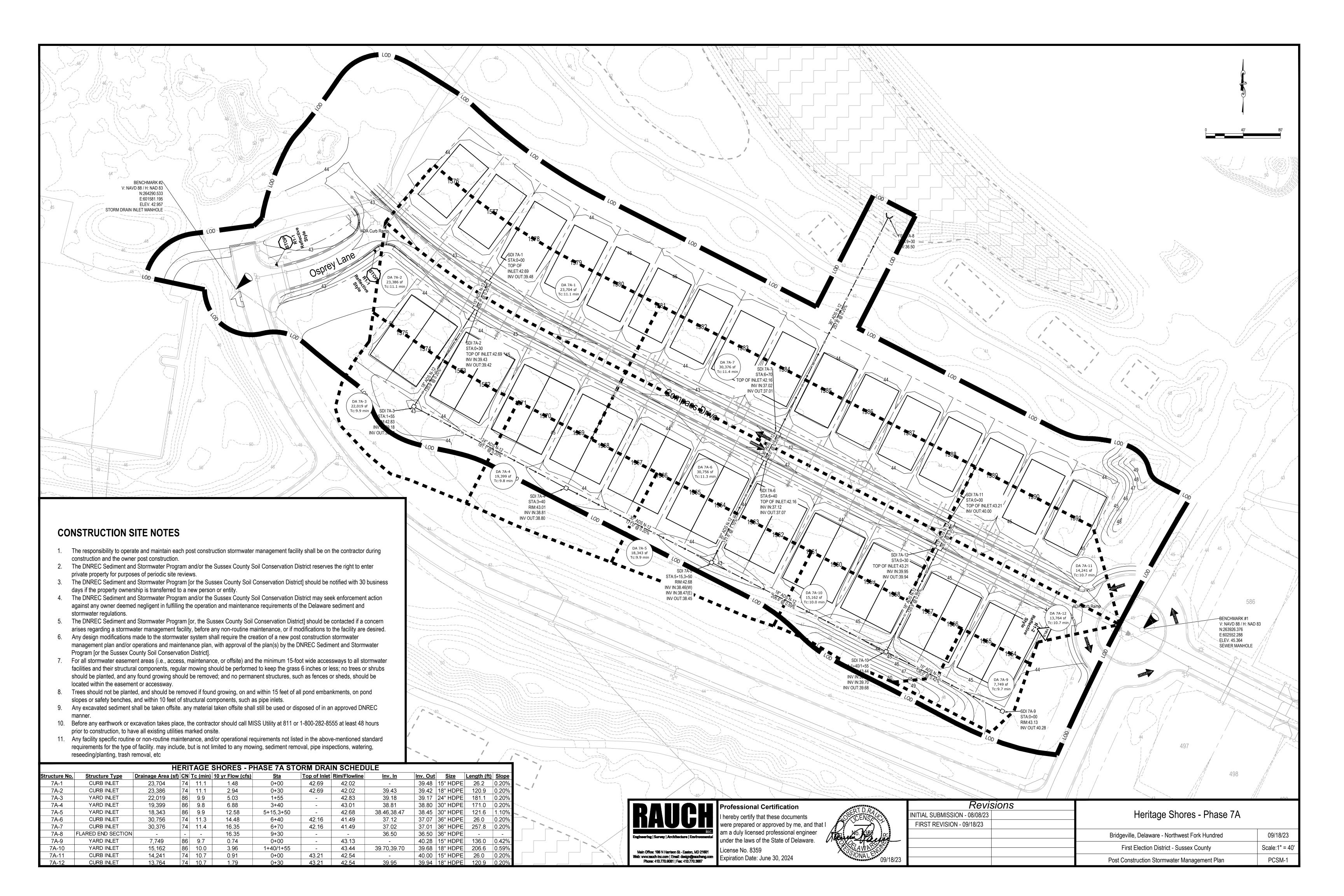


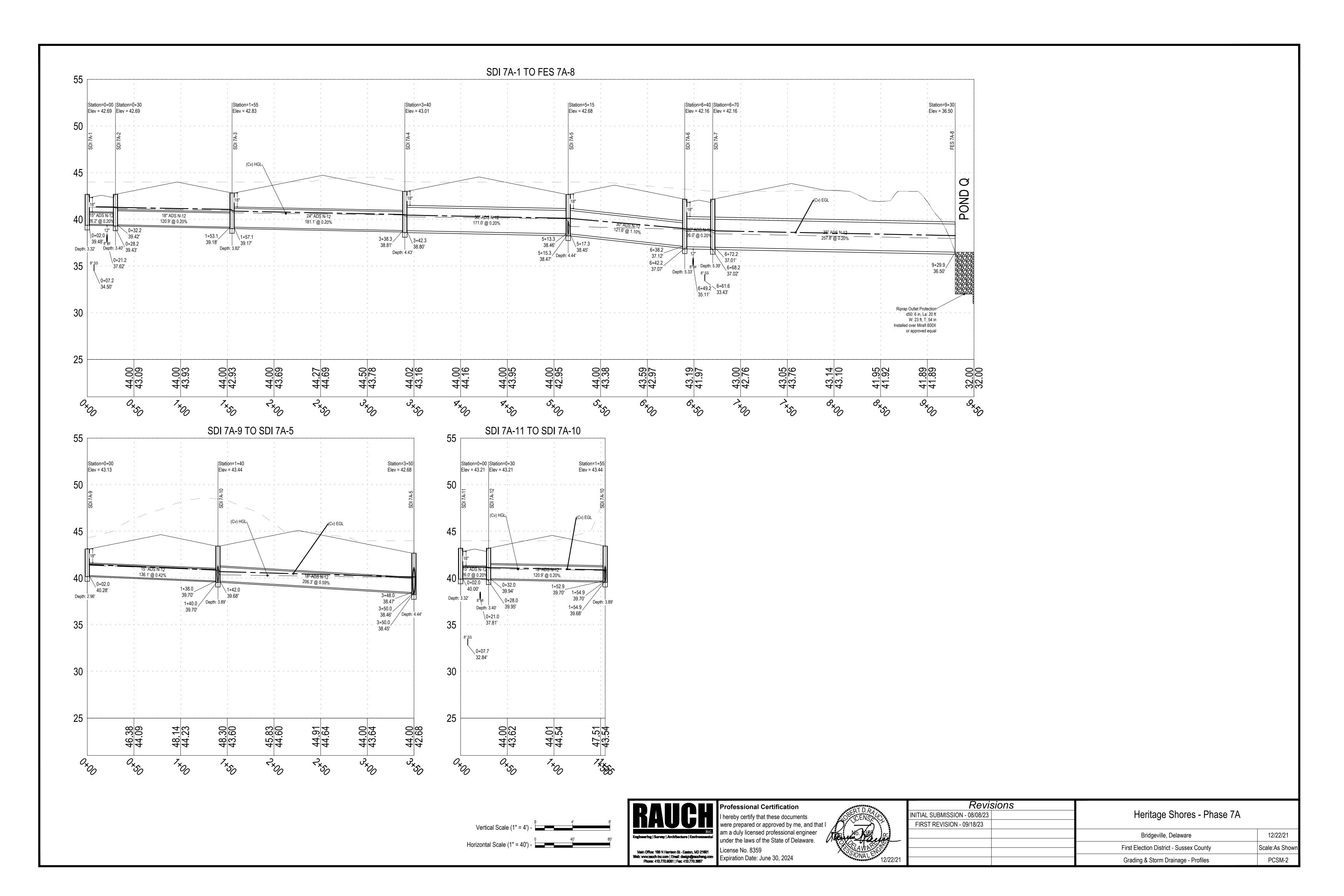


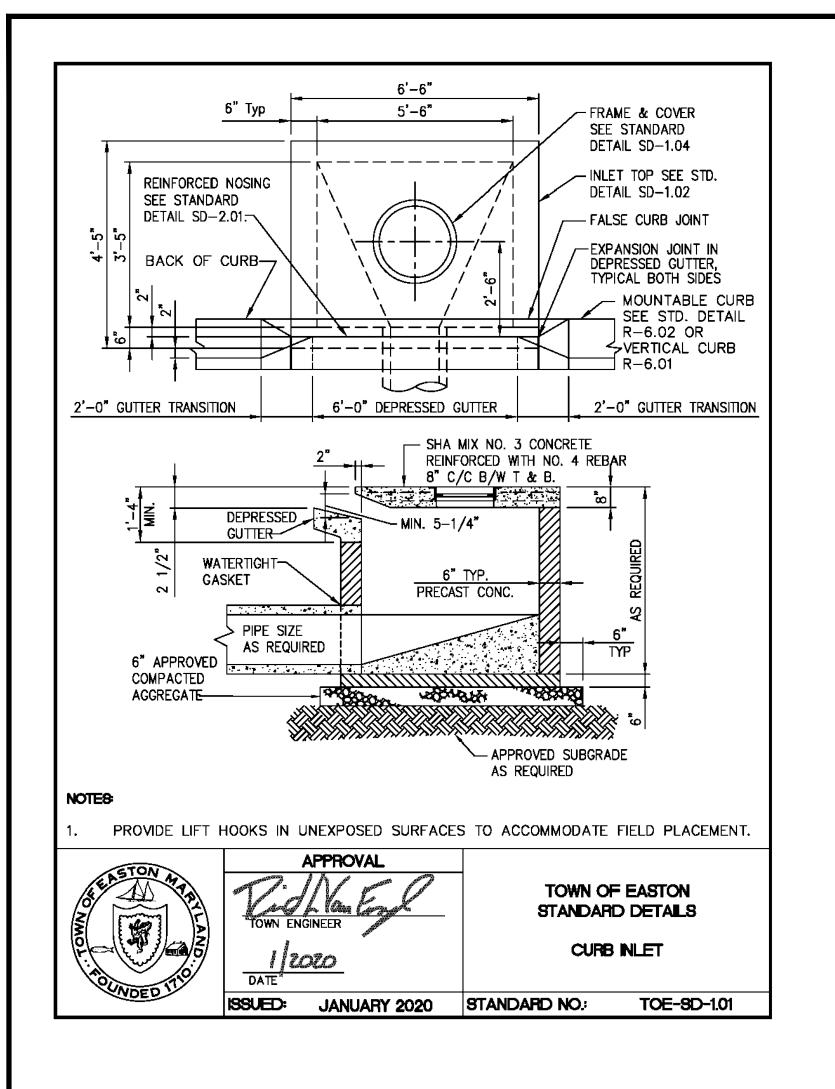


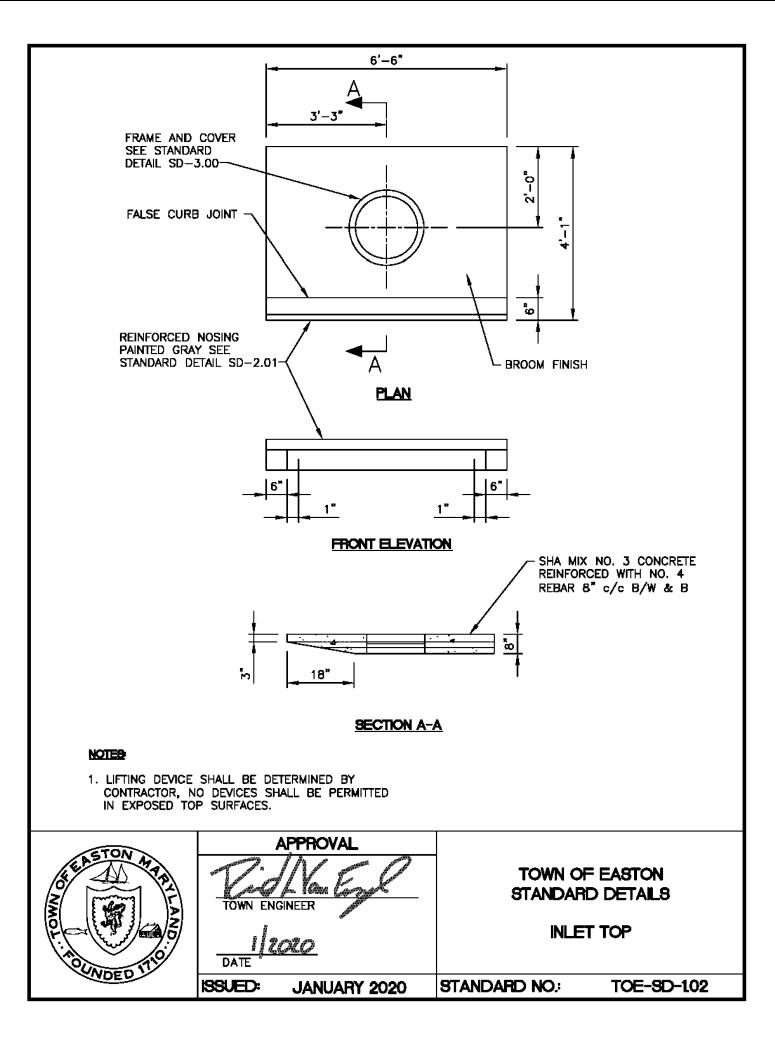


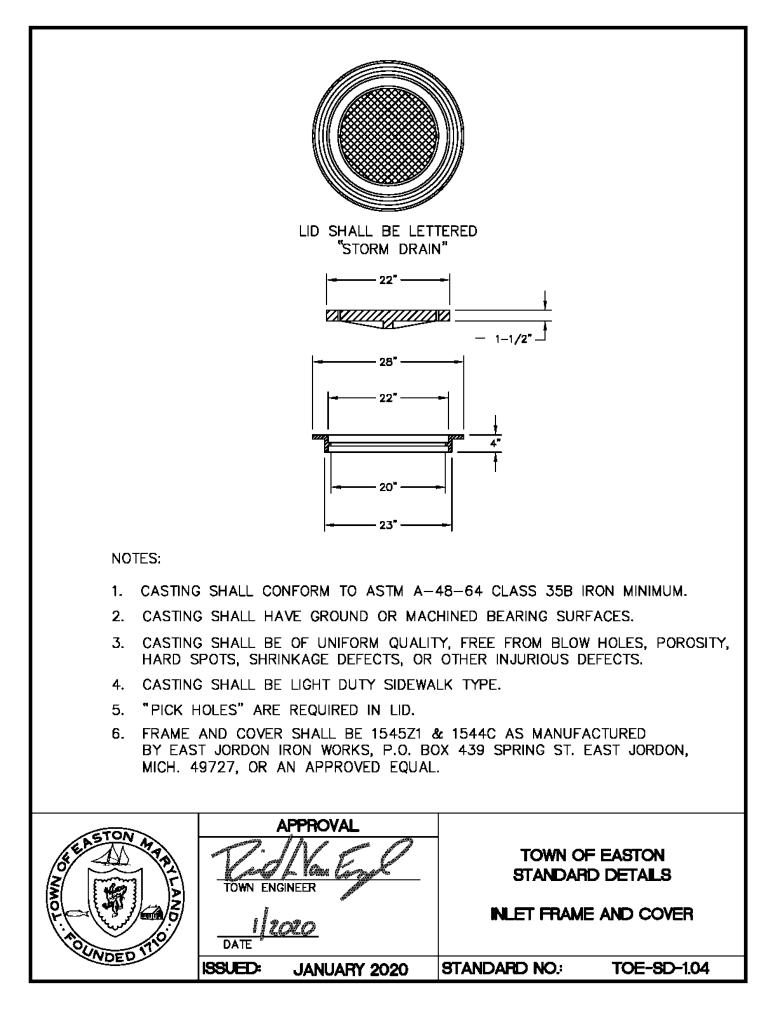
Revisions		
NITIAL SUBMISSION - 08/08/23	Heritage Shores - Phase 7A	
FIRST REVISION - 09/18/23		
	Bridgeville, Delaware - Northwest Fork Hundred	09/18/23
	First Election District - Sussex County	
	Construction Site Details and Notes	CSDN-5

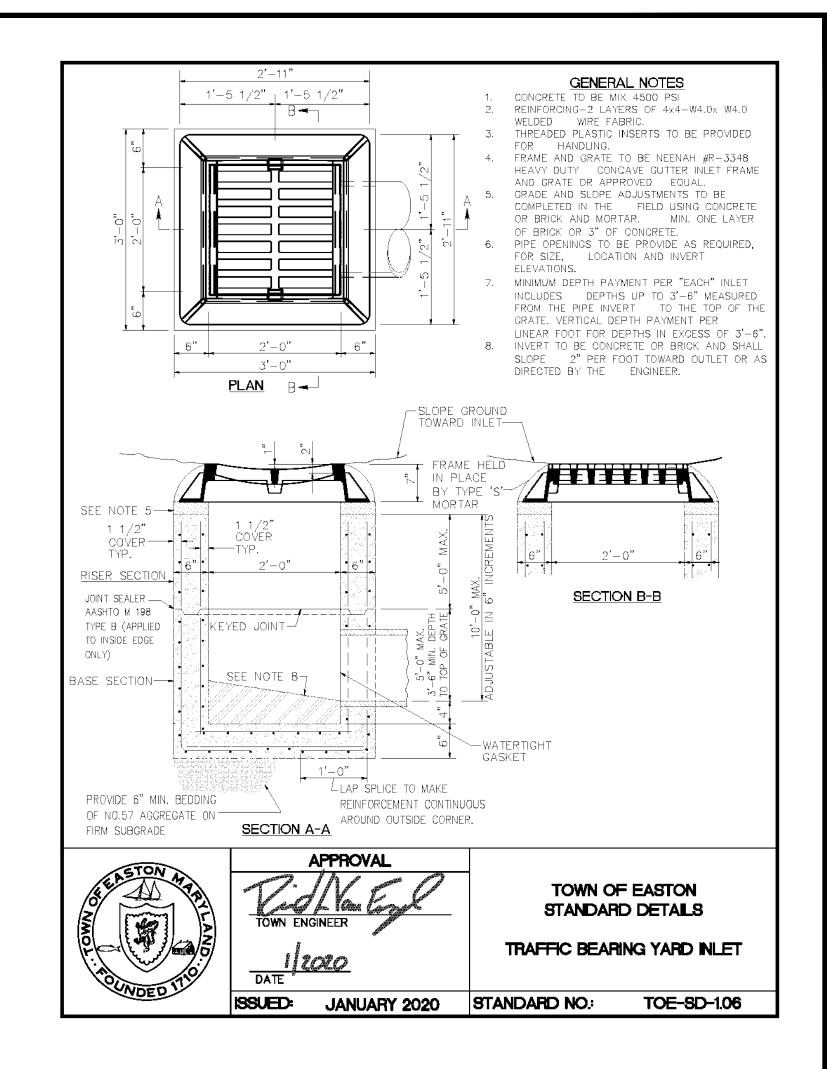


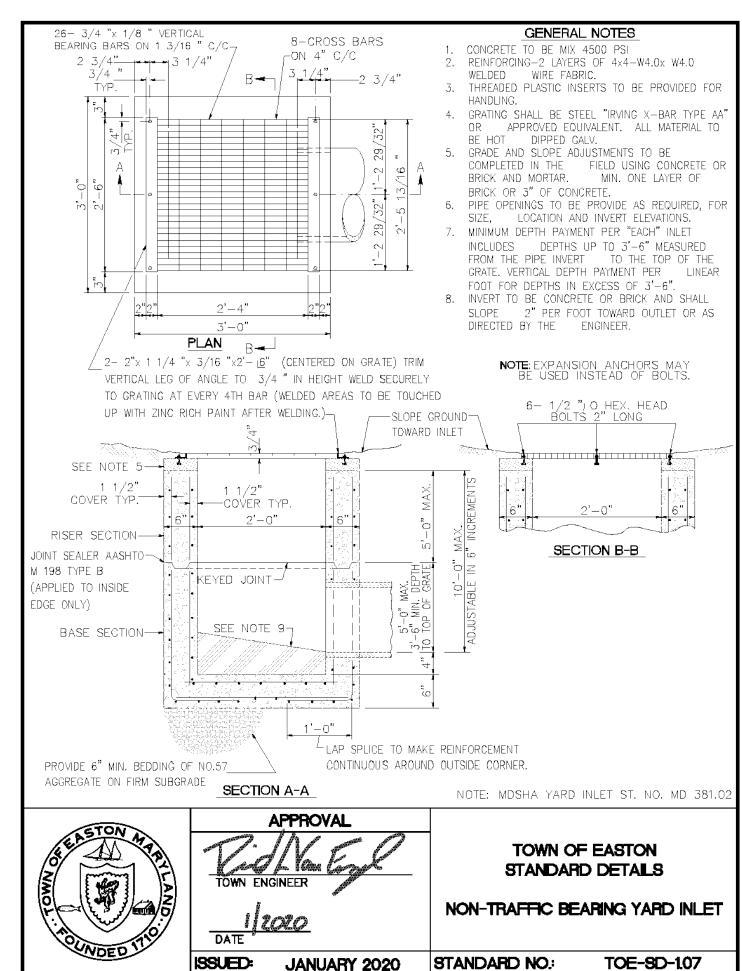




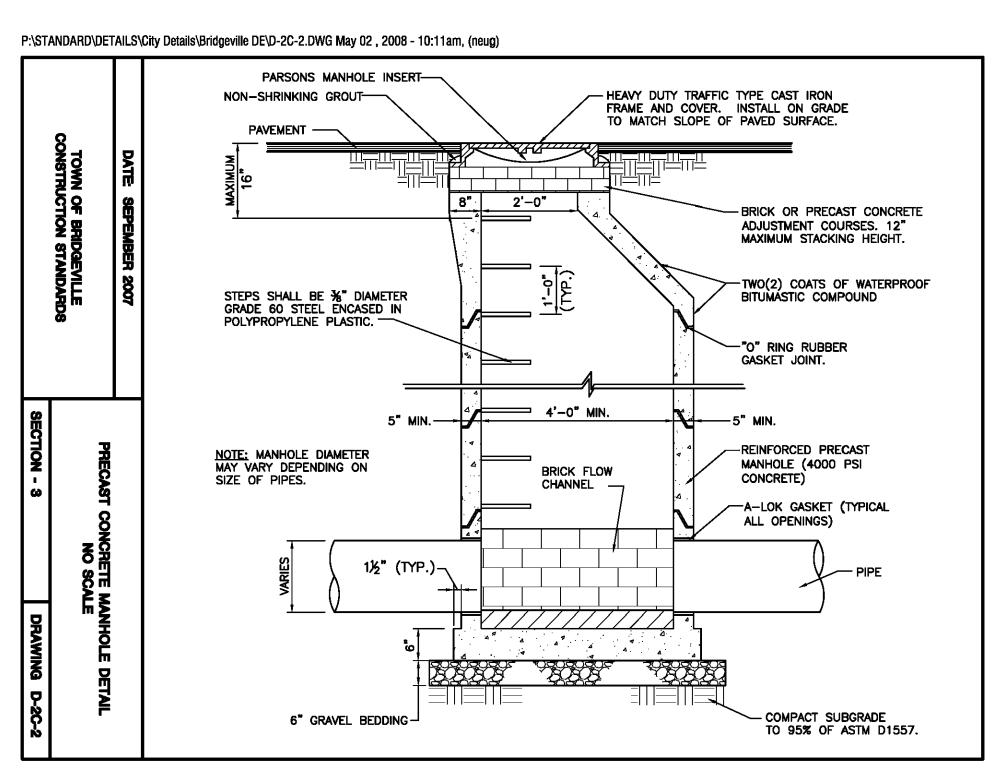




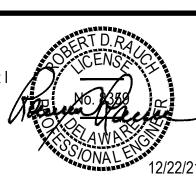




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Revisions INITIAL SUBMISSION - 08/08/23	Heritage Shores - Phase 7A	
FIRST REVISION - 09/18/23	Bridgeville, Delaware	12/22/21
	First Election District - Sussex County	Scale:As Shown
	Grading & Storm Drainage - Details	PCSM-3