NAPA VALLEY FLEX USE BUILDINGS SEDIMENT AND STORMWATER MANAGEMENT PLANS

GREATER MILFORD BUSINESS COMPLEX

1. THE BOUNDARY INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON A SURVEY PERFORMED BY DAVIS, BOWEN, & FRIEDEL, INC. DATED JUNE 19, 2000, AND LAST REVISED ON APRIL 22, 2003 AND RECORDED IN THE KENT COUNTY RECORDER OF DEEDS OFFICE

THE CONTRACTOR'S EXPENSE TO LOCATE EXISTING LITH ITIES IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL

GENERAL NOTES

- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL RIGHT-OF-WAY LINES AND PROPERTY LINES TO HIS OWN SATISFACTION.
- SURFACE AND DIRECTLY ABOVE ALL PROPOSED NON-METALLIC WATER MAIN, SEWER MAIN, SEWER LATERALS, AND WATER SERVICES.

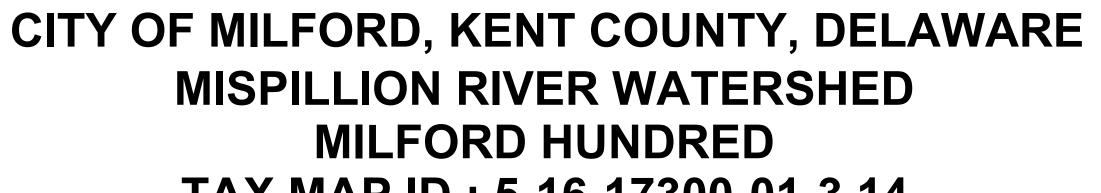
- TIMES, WITH THEIR RELOCATION KEPT TO A MINIMUM DISTANCE, THE COST SHALL BE INCLUDED IN THE COST OF ITEMS BID.
- 19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT PAVING IS INSTALLED TO THE ELEVATIONS SHOWN AND THAT NO PONDING OF WATER WILL OCCUR AFTER PAVING IS COMPLETE.
- RANSPORTATION DEVELOPMENT COORDINATION MANUAL, LATEST EDITION.
- 21. ALL FIRE LANES, FIRE HYDRANTS, EXITS, AND STANDPIPES WILL BE MARKED IN ACCORDANCE WITH STATE FIRE PREVENTION 22. DELAWARE REGULATIONS PROHIBIT THE BURIAL OF CONSTRUCTION DEMOLITION DEBRIS, INCLUDING TREES AND STUMPS ON CONSTRUCTION SITES. ANY SOLID WASTE FOUND DURING THE EXCAVATION FOR STRUCTURES AND UTILITY LINES ON AND OFF SITE
- MUST BE REMOVED AND PROPERLY DISCARDED. ANY REMEDIAL ACTION REQUIRED IS THE RESPONSIBILITY OF THE OWNER. 23. DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ALL RULES AND REGULATIONS THERETO
- 24. CONTRACTOR SHALL GRADE, TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS OF CONSTRUCTION, INCLUDING PIPE INSTALLATION OR DITCH CONSTRUCTION. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL SLOPES GREATER THAN 3:1. 25. THE OWNER AND/OR THEIR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE SERVICES OF A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF DELAWARE SHALL BE RESPONSIBLE FOR PERMANENTLY RE-ESTABLISHING ANY PROPERTY MARKERS OR

MONUMENTS DISTURBED DURING CONSTRUCTION. A SURVEY AND METES AND BOUNDS THAT INCLUDES THE RE-ESTABLISHED

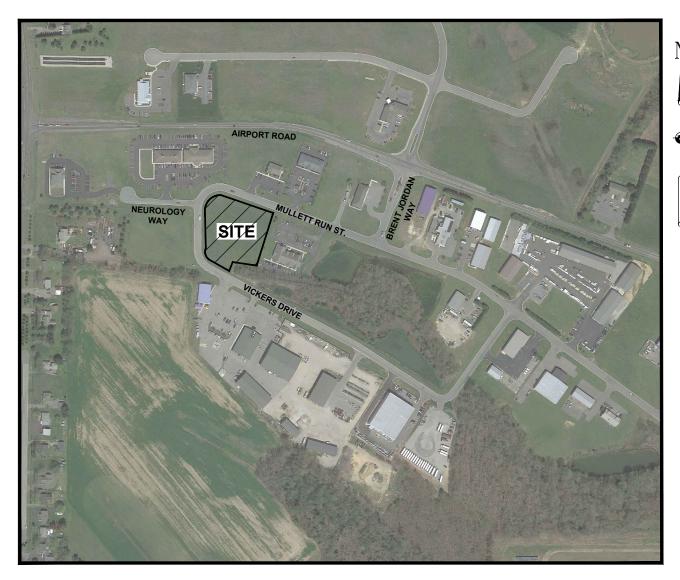
- MARKER(S) OR MONUMENT(S) SHALL BE PRESENTED TO THE PROPERTY OWNER FOR COMPARISON WITH THE ORIGINAL PLAT, FOR 26. THE OWNER SHALL BE RESPONSIBLE FOR THE SHORT-TERM MAINTENANCE OF ANY AND ALL STORMWATER MANAGEMENT FACILITY AND STORM SEWER SYSTEMS UNTIL SUCH TIME THAT THE LONG-TERM MAINTENANCE RESPONSIBILITIES CAN BE TRANSFERRED TO A
- LEGALLY-ESTABLISHED HOMEOWNERS ASSOCIATION OR OTHER RESPONSIBLE PARTY. 27 THE CITY OF MILEORD WILL ASSUME OWNERSHIP AND MAINTENANCE RESPONSIBILITY OF WATER AND SEWER PIPES AND APPURTENANCES, INSTALLED WITHIN CITY RIGHT-OF-WAY AND EASEMENTS DEDICATED TO THE CITY, STORM SEWER PIPES AND CATCH BASINS FULLY WITHIN CITY RIGHT-OF-WAY, INSTALLED FULLY WITHIN CITY RIGHT-OF-WAY; ONCE THE FOLLOWING CONDITIONS
- 27.1. AFTER ALL ITEMS HAVE PASSED CITY INSPECTION;
- 27.2. AFTER THE CITY HAS RECEIVED AND APPROVED DIGITAL AND HARD COPIES OF THE RECORD DRAWINGS; AND 27.3. AFTER THE RIGHTS-OF-WAY AND/OR EASEMENTS HAVE BEEN DEEDED TO THE CITY AND RECORDED WITH THE RECORDER OF
- 28. SEWER AND WATER CAPACITY ARE NOT GUARANTEED UNTIL BUILDING PERMITS ARE ISSUED, ALL FEES ARE PAID, AND SUITABLE UTILITIES ARE IN PLACE FOR PROPER CONVEYANCE, TREATMENT, AND DISPOSAL. 29. PRELIMINARY APPROVAL FROM PLANNING COMMISSION SHALL BE VOID AFTER TWENTY-FOUR (24) MONTHS, UNLESS AN EXTENSION IS REQUESTED BY THE OWNER AND APPROVED FOR GOOD CAUSE BY THE PLANNING COMMISSION PRIOR TO THE DATE OF EXPIRATION.
- 30. THE APPROVAL OF A CONDITIONAL USE IN CONJUNCTION WITH A SITE PLAN APPLICATION SHALL EXPIRE UPON EXPIRATION OF THE 31. FINAL APPROVAL FROM THE CITY SHALL BECOME VOID IF THE FINAL RECORD PLAT IS NOT RECORDED WITHIN 90 DAYS OF THE DATE OF PLANNING COMMISSION'S GRANTING OF FINAL APPROVAL. IF CONSTRUCTION OF THE APPROVED IMPROVEMENTS IS NOT
- SUBSTANTIALLY UNDERTAKEN WITHIN EIGHTEEN (18) MONTHS OF FINAL SITE PLAN APPROVAL, THE SITE PLAN APPROVAL SHALL BE VOID. THE APPLICANT MAY REQUEST A ONE (1) YEAR EXTENSION FROM THE PLANNING COMMISSION FOR GOOD CAUSE. 32. THE APPLICANT IS RESPONSIBLE TO ENSURE THAT ALL CITY AND/OR AGENCY CONSTRUCTION PERMIT APPLICATIONS HAVE BEEN COMPLETED, SUBMITTED, AND ALL APPLICABLE FEES HAVE BEEN PAID PRIOR TO COMMENCING CONSTRUCTION. THE CITY SHALL NOT BE HELD RESPONSIBLE FOR AN ANTICIPATED CONSTRUCTION START DATE THAT IS NOT MET DUE TO THE APPLICANT OR HIS/HER
- CONTRACTOR NOT HAVING MET THE CONSTRUCTION PERMITTING REQUIREMENTS. 33. AS A CONDITION OF THE APPROVAL OF THE CONSTRUCTION DRAWINGS, AND PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT, THE APPLICANT SHALL POST A COMPLETE GUARANTY IN THE AMOUNT OF 125% OF THE COST OF INSTALLATION FOR THE CONSTRUCTION OF RECREATIONAL AND OPEN SPACE AMENITIES, INCLUDING BUT NOT LIMITED TO COMMUNITY BUILDINGS, PLAYGROUNDS, WALKING PATHS, LANDSCAPING AND LANDSCAPE SCREENING. THE GUARANTY SHALL BE IN THE FORM OF A BOND
- FOR FUNDS DEPOSITED IN AN ESCROW ACCOUNT. 34. A MAINTENANCE BOND IN THE AMOUNT OF 10% OF THE AMOUNT OF THE CONSTRUCTION VALUE FOR ANY CONSTRUCTED IMPROVEMENTS AND A PERFORMANCE BOND IN THE AMOUNT OF 125% OF THE CONSTRUCTION VALUE FOR ANY UNCOMPLETED WORK SHALL BE PROVIDED IN ORDER TO OBTAIN CERTIFICATES OF OCCUPANCY AND ACHIEVE FINAL COMPLETION OF THE IMPROVEMENTS AND RELEASE OF ANY COMPLETION GUARANTY. THE MAINTENANCE PERIOD SHALL BE A MINIMUM OF ONE YEAR AND ALL CONSTRUCTION VALUES MUST BE SUBMITTED TO, REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE ISSUANCE OF
- 35. UPON COMPLETION OF THE CONSTRUCTION IMPROVEMENTS AND PRIOR TO THE RELEASE OF ANY DEVELOPER'S COMPLETION GUARANTEE, THE DEVELOPER SHALL PROVIDE THE CITY ENGINEER A DRAFT PAPER SET OF DETAILED RECORD PLANS (PLAN VIEW AND PROFILE SHEETS). RECORD INFORMATION SHALL BE PLACED ON THE APPROPRIATE APPROVED DRAWINGS. ORIGINAL DESIGN ELEVATION AND/OR DISTANCE INFORMATION SHALL BE STRUCK THROUGH WITH A FINE LINE AND THE RECORD INFORMATION SHALL BE INSERTED NEXT TO IT. WHEN THE DRAFT SET OF DRAWINGS HAS BEEN APPROVED BY THE CITY, THREE (3) FINAL PAPER COPIES SHALL BE SUBMITTED, SIGNED AND SEALED BY THE OWNER'S ENGINEER OR SURVEYOR. ADDITIONALLY, A CD SHALL BE PROVIDED WITH DIGITAL RECORD INFORMATION IN AUTOCAD FORMAT (VERSION 2018 OR LATER). THE DIGITAL INFORMATION SHALL BE ON DELAWARE STATE PLANE, NAD 83 HORIZONTAL CONTROL AND NAVD88 VERTICAL CONTROL. RECORD PLAN INFORMATION SHALL INCLUDE SURVEYED AS-BUILT ELEVATIONS AND HORIZONTAL LOCATIONS OF THE FOLLOWING:
- 35.2. SEWER MANHOLE RIM & INVERT ELEVATIONS, WITH ASSOCIATED PIPE SIZES & MATERIALS NOTED, PUMP STATION RIM, BOTTOM & INVERT ELEVATIONS WITH ASSOCIATED PIPE SIZES & MATERIALS NOTED, FORCEMAIN INVERT ELEVATIONS EVERY 50 FEET, FORCEMAIN AIR RELEASE VALVE RIM & INVERT ELEVATIONS, SEWER CLEANOUT RIM & INVERT ELEVATIONS, AND GREASE TRAP
- 35.3. WATER VALVES, FIRE HYDRANTS, METER VAULTS, METER PITS, AND CURB STOPS; 35.4. STORM SEWER CATCH BASIN AND/OR MANHOLE GRATE, RIM & INVERT ELEVATIONS WITH ASSOCIATED PIPE SIZES & MATERIALS
- 35.5. ANY OTHER ITEM WHICH WILL BE TAKEN OVER BY THE CITY. 36. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT (302) 422-1110 A MINIMUM OF TWO WEEKS PRIOR TO THE

START OF CONSTRUCTION AND SCHEDULE A PRE-CONSTRUCTION MEETING. THE SITE CONTRACTOR AND THE OWNER, OR HIS/HER

37. THERE ARE NO SOURCEWATER PROTECTION AREAS LOCATED ON OR IMMEDIATELY ADJACENT TO THE PROPERTY 38. WETLANDS STATEMENT: WETLANDS ARE NOT BEING IMPACTED. THERE ARE NO WETLANDS PRESENT ON THE PROPERTY. HOWEVER, NON-TIDAL WETLANDS EXIST ON ADJACENT LANDS.



TAX MAP ID: 5-16-17300-01-3.14 PREPARED FOR: NAPA VALLEY INVESTMENTS, LLC.



LOCATION MAP

LEGEND

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DESCRIPTION

PROPERTY LINE

EASEMENT LINE

SEWER MAIN

SEWER MANHOLE SEWER CLEANOUT

STORM DRAIN

CONTOUR

TREE LINE

WATER MAIN

WATER VALVE

FIRE HYDRANT

LIGHT POLE

ELECTRICAL BOX

DESCRIPTION

DISTURBANCE

SILT FENCE / LIMIT OF DISTURBANCE

SUPER SILT FENCE / LIMIT OF

INLET PROTECTION TYPE -2 STABILIZED CONSTRUCTION

TELEPHONE PEDESTAL

NATURAL GAS / PROPANE

STORM DRAIN INLET

SPOT ELEVATION

WETLANDS LINE

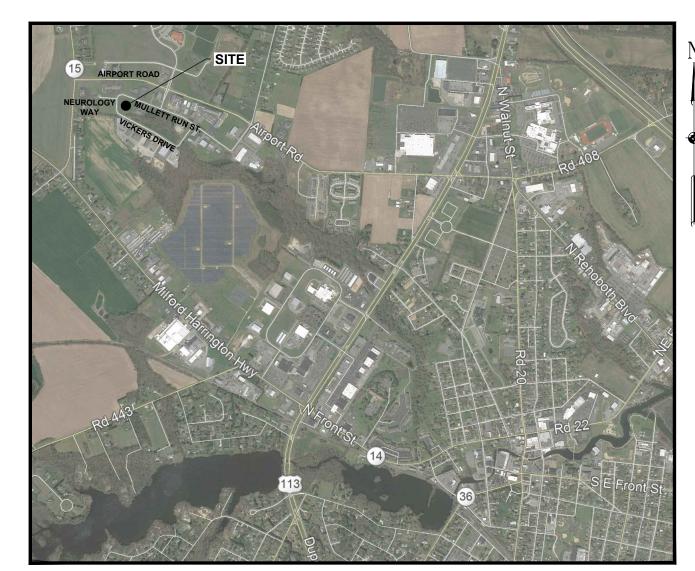
STORM DRAIN MANHOLE

ROAD CENTER LINE

IRON ROD W/ CAP FOUND

CONSOLIDATED PROPERTY LINE

ADJACENT PROPERTY LINE



HEET NO.	DRAWING NO.	DRAWING TITLE
1	G-001	TITLE SHEET
2	C-101	EXISTING CONDITIONS AND DEMOLITION
3	C-102	SITE PLAN
4	C-103	UTILITY PLAN
5	C-104	GRADING AND DRAINAGE PLAN
6	C-105	FIRE MARSHAL PLAN
7	C-106	PLANTING PLAN
8	C-107	EROSION AND SEDIMENT CONTROL PLAN
9	C-501	DETAIL I
10	C-502	DETAIL II
11	C-503	EROSION AND SEDIMENT CONTROL PLAN NOTES
12	C-504	EROSION AND SEDIMENT CONTROL DETAILS I
13	C-505	EROSION AND SEDIMENT CONTROL DETAILS II

PROJECT AND SITE DATA

- 1. OWNER/APPLICANT: NAPA VALLEY INVESTMENTS, LLC 12 W. PERIWINKLE LANE NEWARK, DELAWARE 1971 CONTACT: FRAN POLLINGER EMAIL: FJPOLLING@COMCAST.NET PHONE: 302-275-5436
 - EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC 11200 RACETRACK ROAD, UNIT 101A OCEAN PINES, MARYLAND 21811 CONTACT: STEVEN LEMASTERS, P.E EMAIL: SLEMASTERS@EAEST.COM
- 3. SITE ADDRESS: 320 MULLET RUN MILFORD, DELAWARE 19963
- MAP NUMBER: 5-16-17300-01-3.14 TAX ACCOUNT ID: 83316 PARCEL AREA: 2.0 ACRES

PHONE: 410-641-5341

- **BP BUSINESS PARK DISTRICT**
- MINIMUM: 150 FEET, ACTUAL: 309 FEET MINIMUM: 1 ACRE, ACTUAL: 2 ACRES
- 9. BUILDING HEIGHT: MAXIMUM = 50 FEET, PROPOSED: 26 FEET
- 10. EXISTING USE: UNIMPROVED VACANT LOT 11. PROPOSED USE: FLEX WAREHOUSE WITH INTEGRAL OFFICE SPACE
 - (3) 1-STORY STORAGE POLE BUILDINGS PROPOSED BUILDING FOOTPRINTS: (2) 9.968 SQ. FT. AND (1) 3.248 SQ. FT. TOTAL BUILDING GROSS FOOTPRINT: 23,184 SQ. FT.
 - 15% OFFICE SPACE ALLOCATION = 3,477 S.F. 85% WAREHOUSE SPACE ALLOCATION = 19,707 S.F
- 1 SPACE PER 250 SQUARE FEET OF ALLOCATED GENERAL OFFICE FLOOR AREA = 3,477 / 250 = 14 SPACES 1 SPACE PER 2 EMPLOYEES (2 EMPLOYEE PER UNIT) x 16 UNITS

FRONT: 30 FEET, SIDES: 15 FEET, REAR: 25 FEET

- = 32 EMPLOYEES / 2 = 16 SPACES
- 13. BICYCLE PARKING REQ'D: 5 SPACES PLUS 1 SPACE PER 20 PARKING SPACES = 7 SPACES PROVIDED: (2) RACKS OF FOUR BICYCLE SPACES = 8 SPACES
- 14. PARKING PROV.: (36) 9'x18' SPACES PROVIDED
- TOTAL PROVIDED 38 15. SOILS PRESENT: HbB - HAMBROOK SANDY LOAM, 2 TO 5 PERCENT SLOPES. HSG 'B'.
- 16. AN APPROVED STORMWATER MANAGEMENT PLAN EXISTS FOR THE MILFORD BUSINESS COMPLEX.
- EACH LOT IS PERMITTED A MAXIMUM OF 75% IMPERVIOUS COVERAGE. TOTAL PARCEL AREA = 2 ACRES = 87,120 SQ. FT. 75% PERMITTED MAXIMUM IMPERVIOUS COVERAGE = 87,120 * 75% = 65,340 SQ. FT.
- PROPOSED IMPERVIOUS COVERAGE = 52,267 SQ. FT. (60%) 17. OPEN SPACE REQUIRED: 25% OF SITE AREA = 0.25 * 87,120 = 21,780
- OPEN SPACE PROVIDED = 87,120 52,267 = 34,853 S.F. (40%)
- 18. ESTIMATED WATER AND SEWER USAGE = 9 COMMERCIAL EDUS. EACH UNIT ALLOCATED THREE FIXTURES UNITS: WASHSTAND AND TOILET FOR A TOTAL OF 48 FIXTURE UNITS. 1 + (48 / 6) = 9 EDU.
- 19. WATER SEWER AND ELECTRIC ARE TO BE PROVIDED BY THE CITY OF MILFORD. NATURAL GAS IS TO BE PROVIDED BY CHESAPEAKE UTILITIES.

I 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. DARL O. KOLAR, P.E. (DE LICENSE # 16413) EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC PBC 11200 RACETRACK ROAD, UNIT 101A OCEAN PINES, MARYLAND 21811 410-641-5341

SITE DESIGNER CERTIFICATION

OWNER/DEVELOPER/APPLICANTS CERTIFICATION "I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL 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 AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCED ON THIS COVERSHEET."

APPLICANT:

MR. FRAN POLLINGER NAPA VALLEY INVESTMENTS, LLC 12 W. PERIWINKLE LANE NEWARK, DELAWARE 19711 PHONE: 302-275-5436

KENT CONSERVATION DISTRICT APPROVAL BLOCK

EA Engineering, Science, and Technology, Inc., PBC 11200 Racetrack Road, Unit A101 Ocean Pines, Maryland 21811 (410) 641-5341 www.eaest.com

SCALE AS SHOWN

FULL SIZE PLOT: 24" x 36" DATE: APRIL 2023

PROJECT NUMBER: 6387801

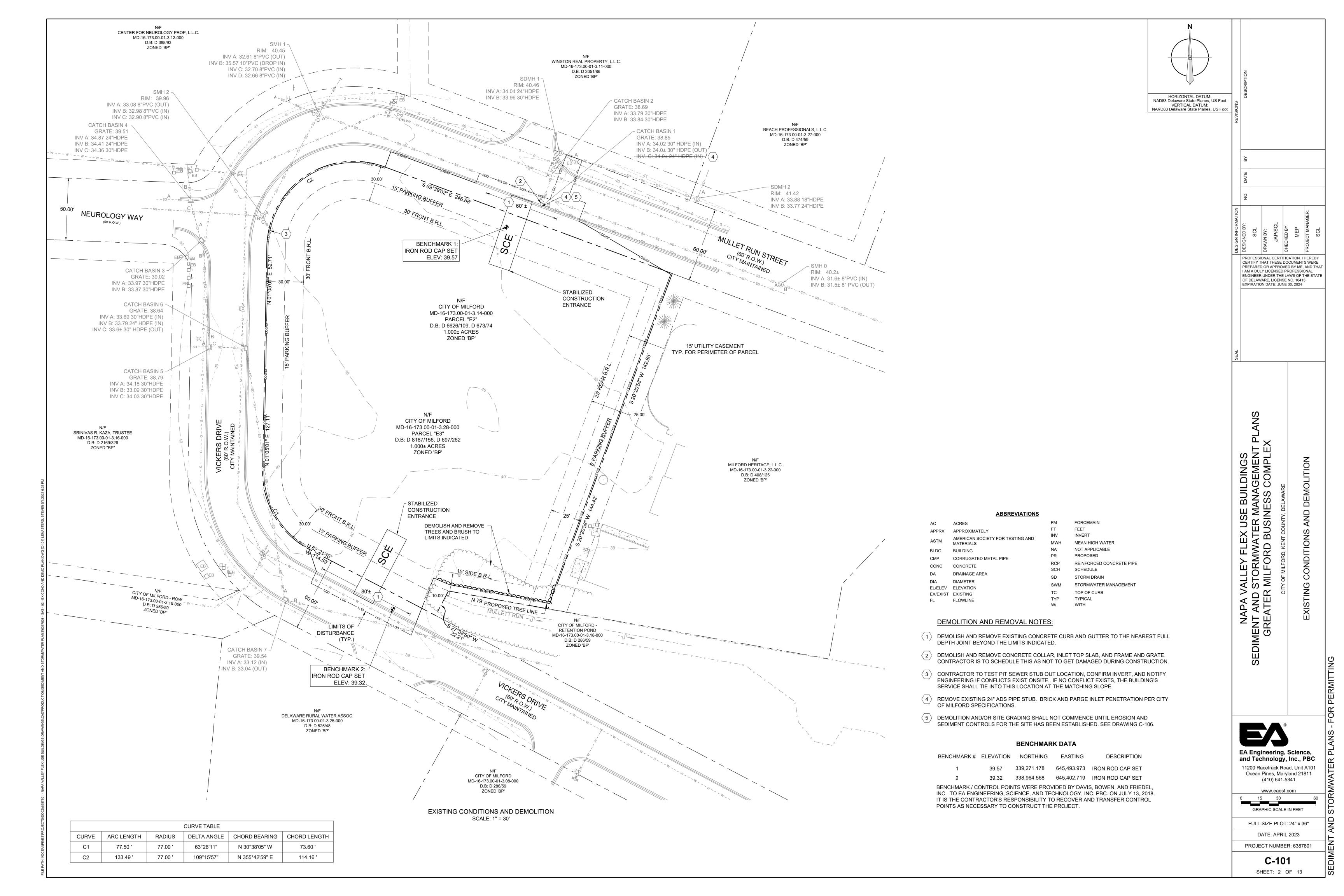
SHEET: 1 OF 13

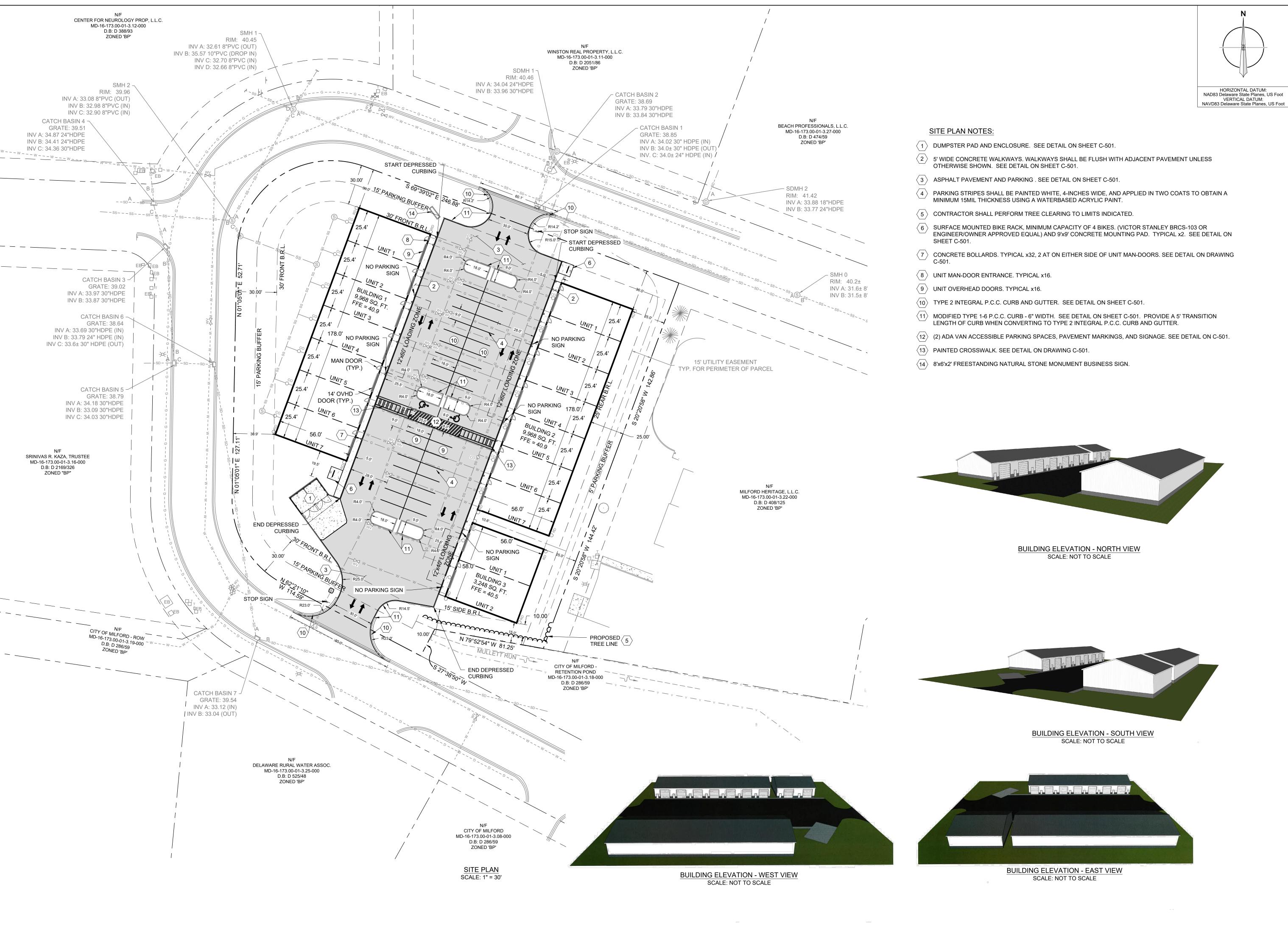
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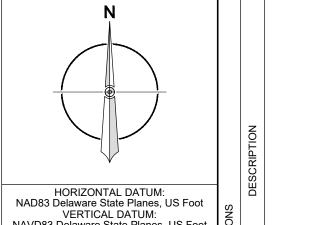
EXPIRATION DATE: JUNE 30, 2024

PREPARED OR APPROVED BY ME. AND THA

ENGINEER UNDER THE LAWS OF THE STATE







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 DELAWARE, LICENSE NO. 16413 EXPIRATION DATE: JUNE 30, 2024

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SITE



Ocean Pines, Maryland 21811

(410) 641-5341

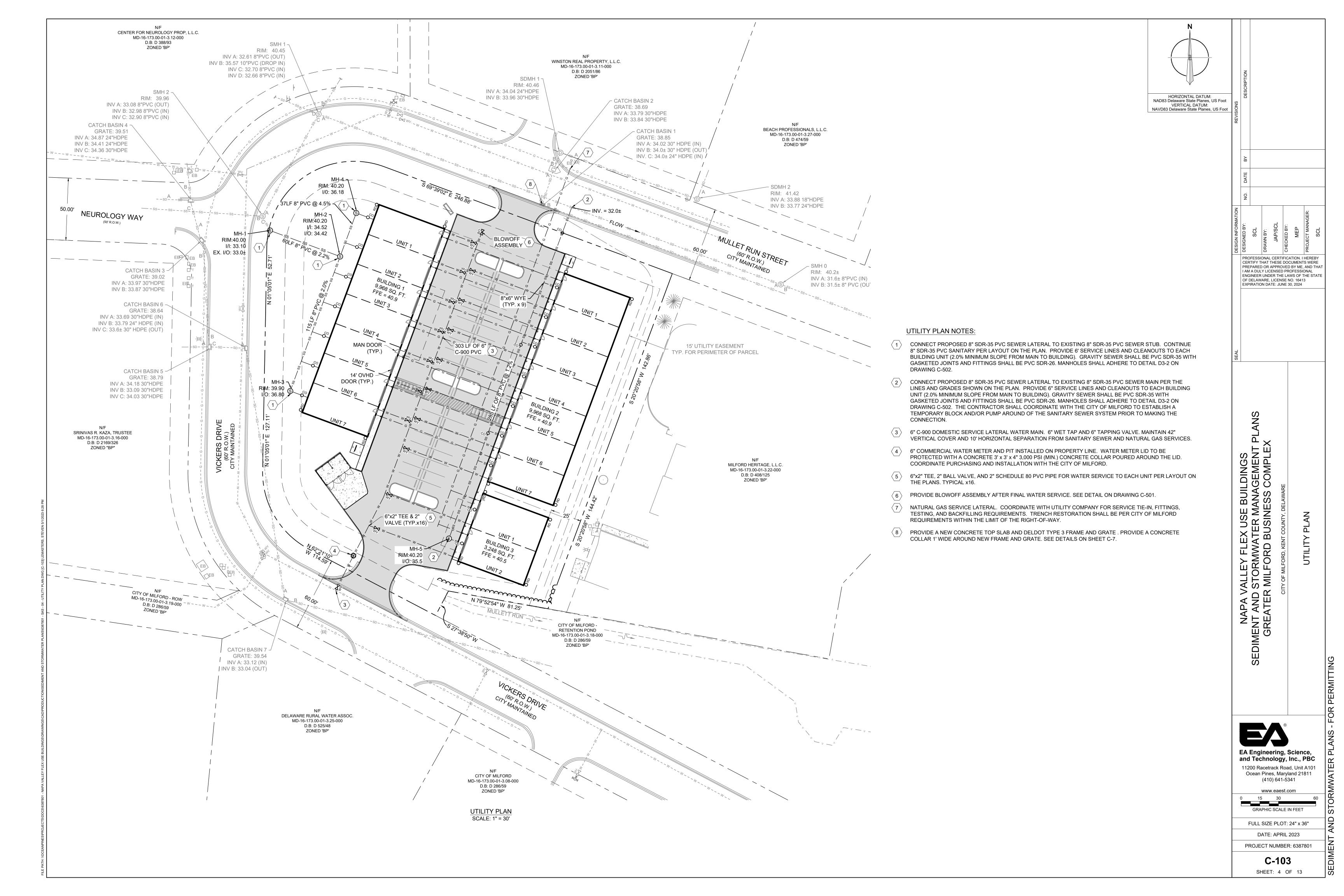
www.eaest.com GRAPHIC SCALE IN FEET

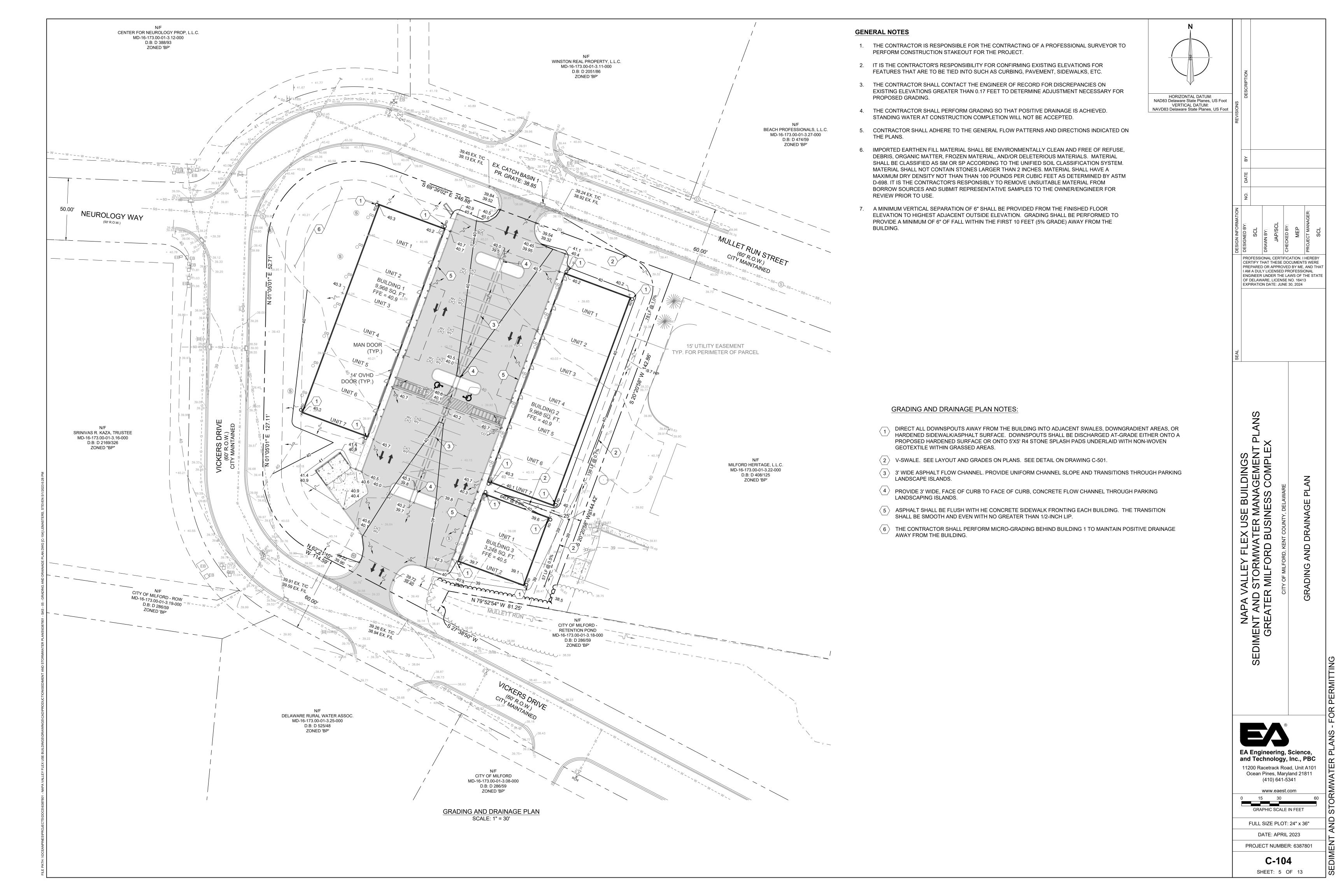
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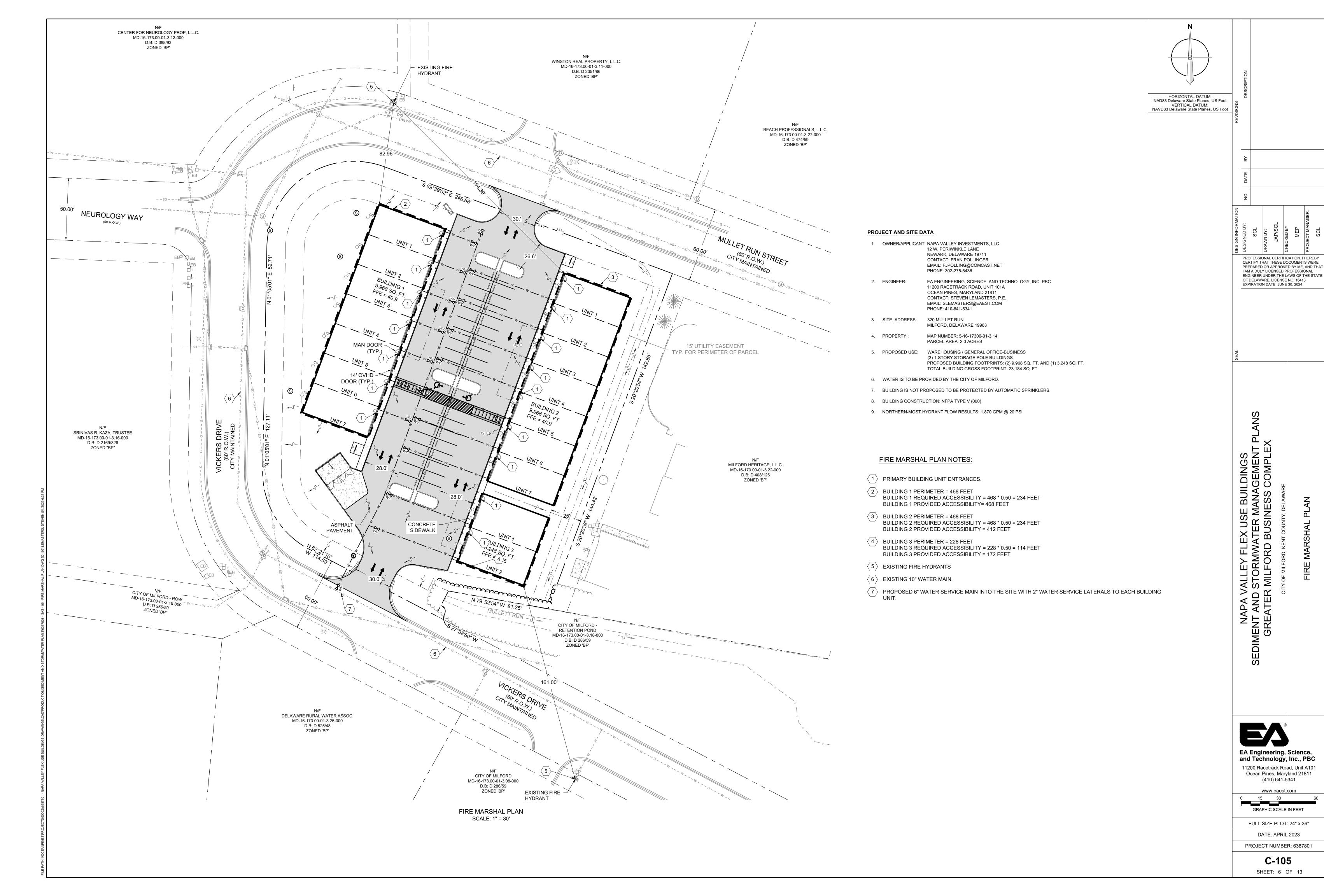
DATE: APRIL 2023 PROJECT NUMBER: 6387801

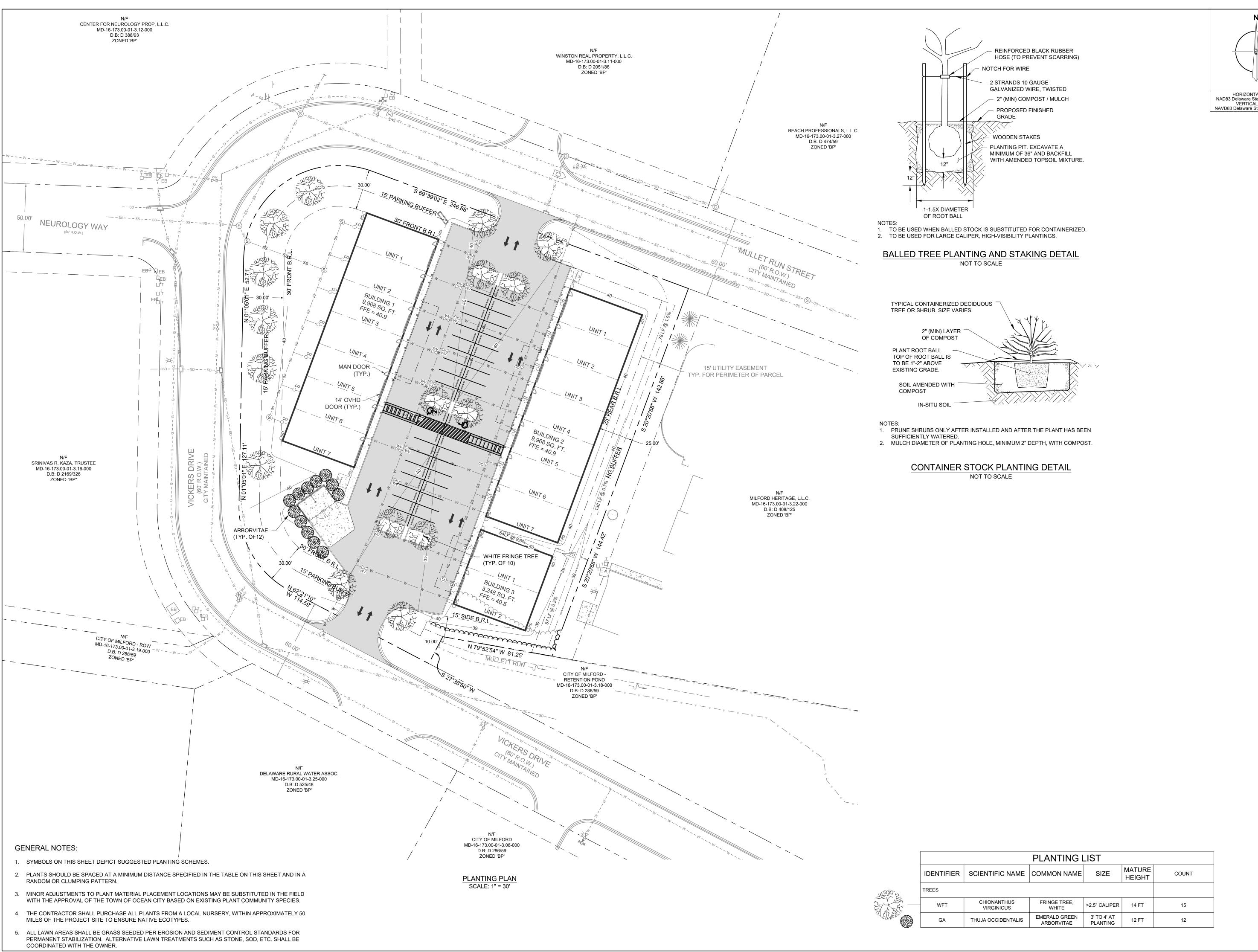
C-102

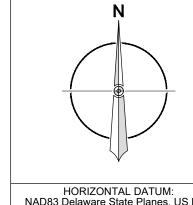
SHEET: 3 OF 13











HORIZONTAL DATUM: NAD83 Delaware State Planes, US Foot VERTICAL DATUM: NAVD83 Delaware State Planes, US Foot

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 DELAWARE, LICENSE NO. 16413 EXPIRATION DATE: JUNE 30, 2024

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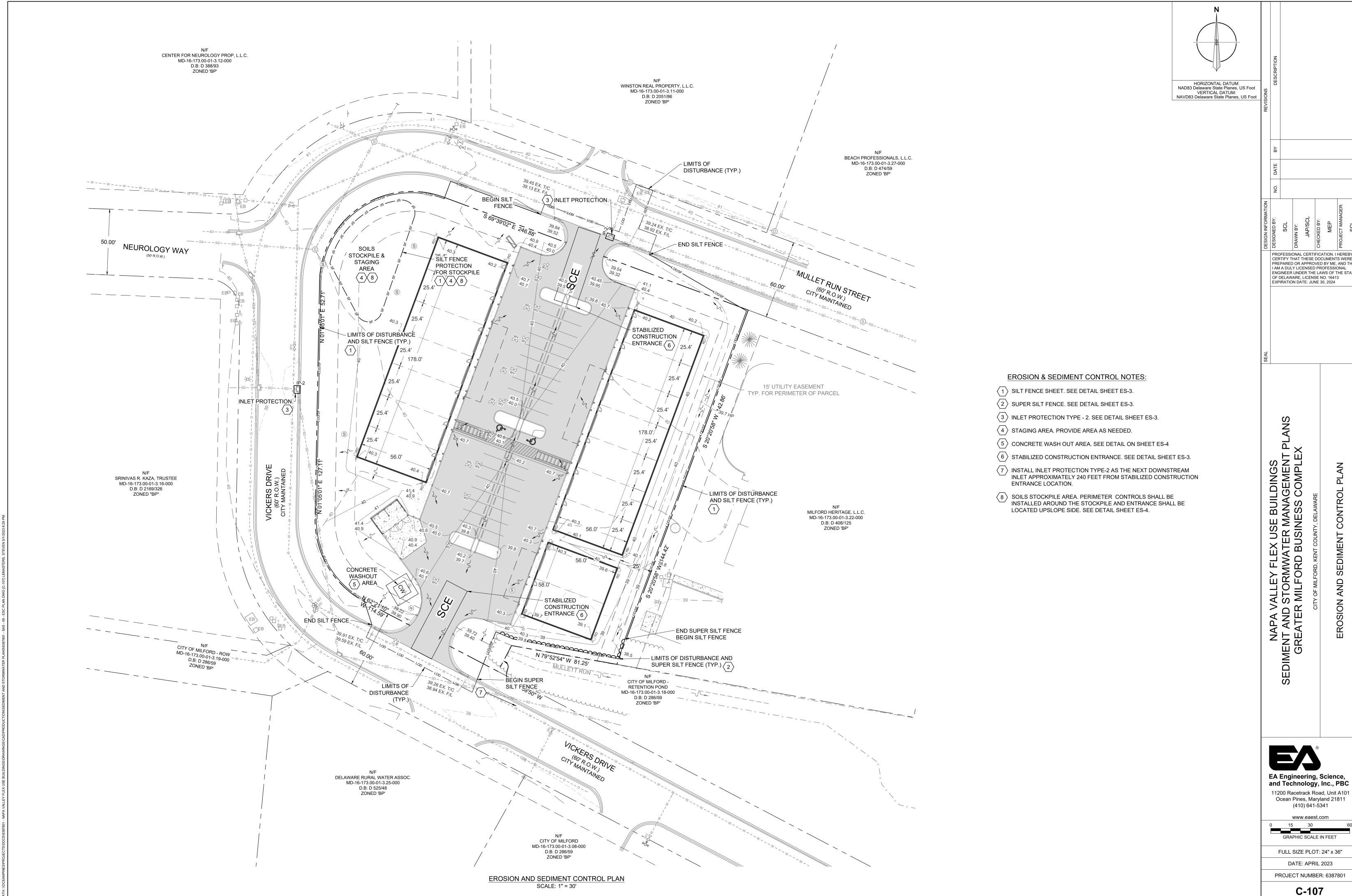
EA Engineering, Science, and Technology, Inc., PBC 11200 Racetrack Road, Unit A101 Ocean Pines, Maryland 21811

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GRAPHIC SCALE IN FEET FULL SIZE PLOT: 24" x 36" DATE: APRIL 2023

PROJECT NUMBER: 6387801

C-106 SHEET: 7 OF 13

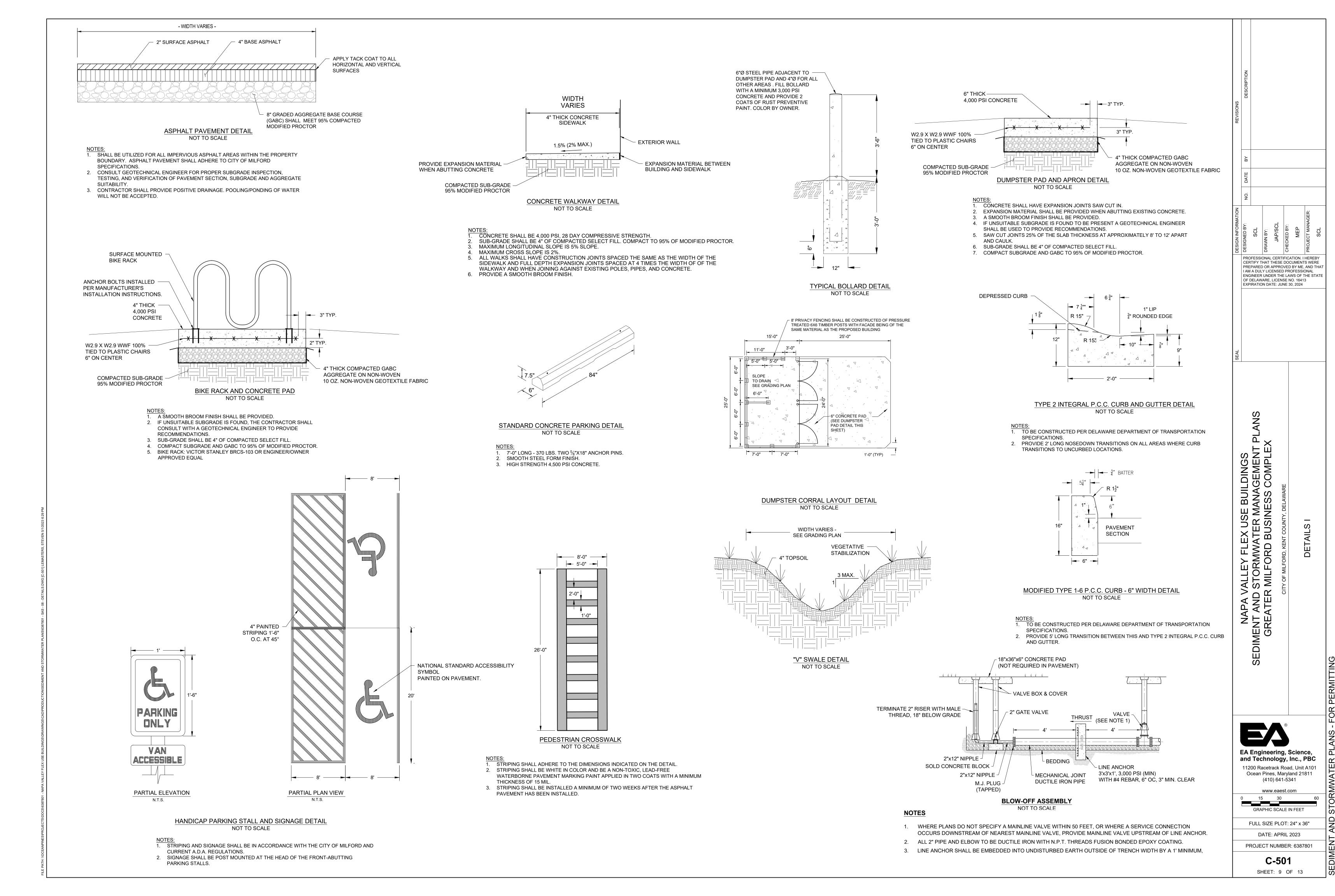


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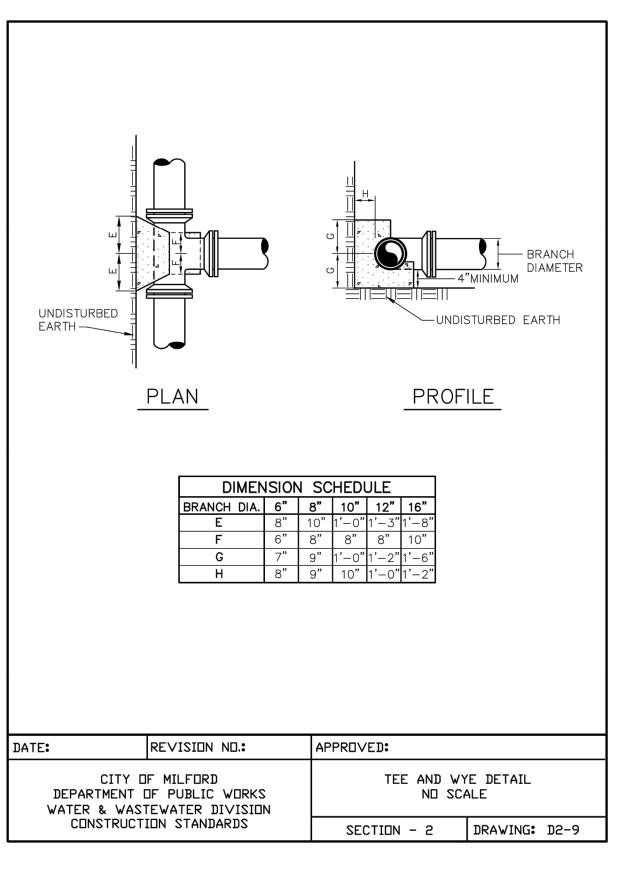
EA Engineering, Science, and Technology, Inc., PBC

DATE: APRIL 2023

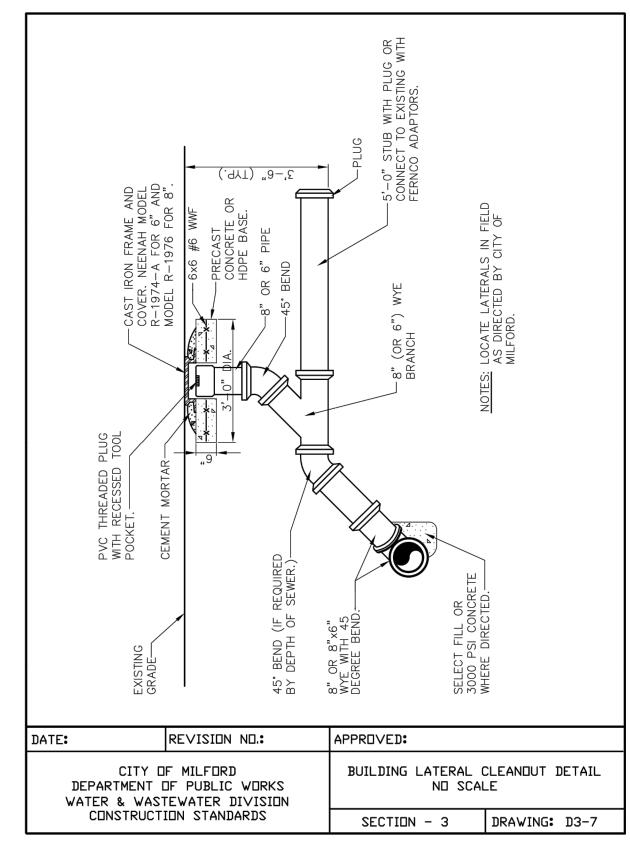
SHEET: 8 OF 13



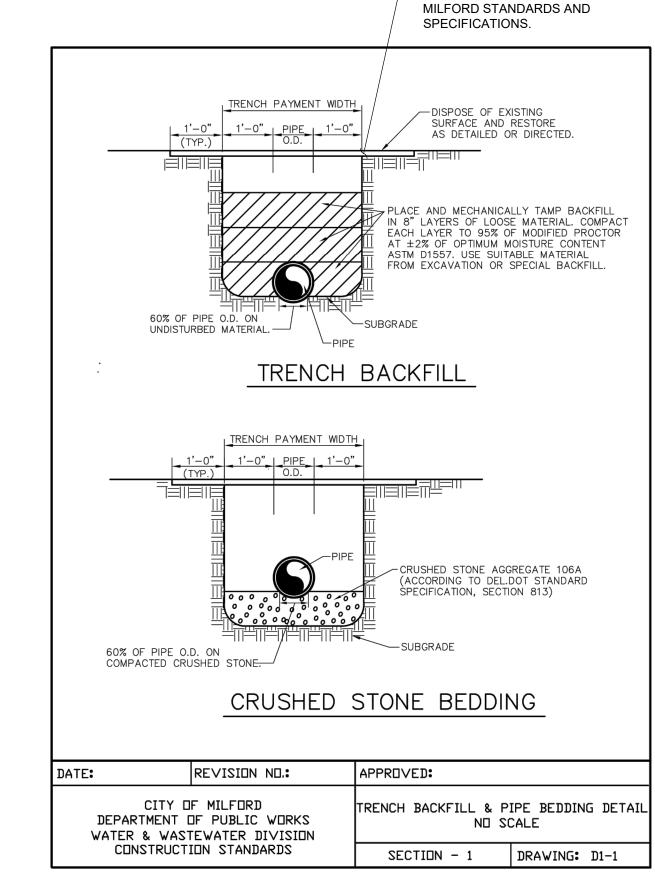
PRECAST CONCRETE SANITARY MANHOLE NOT TO SCALE



WATER MAIN TEE AND WYE DETAIL NOT TO SCALE

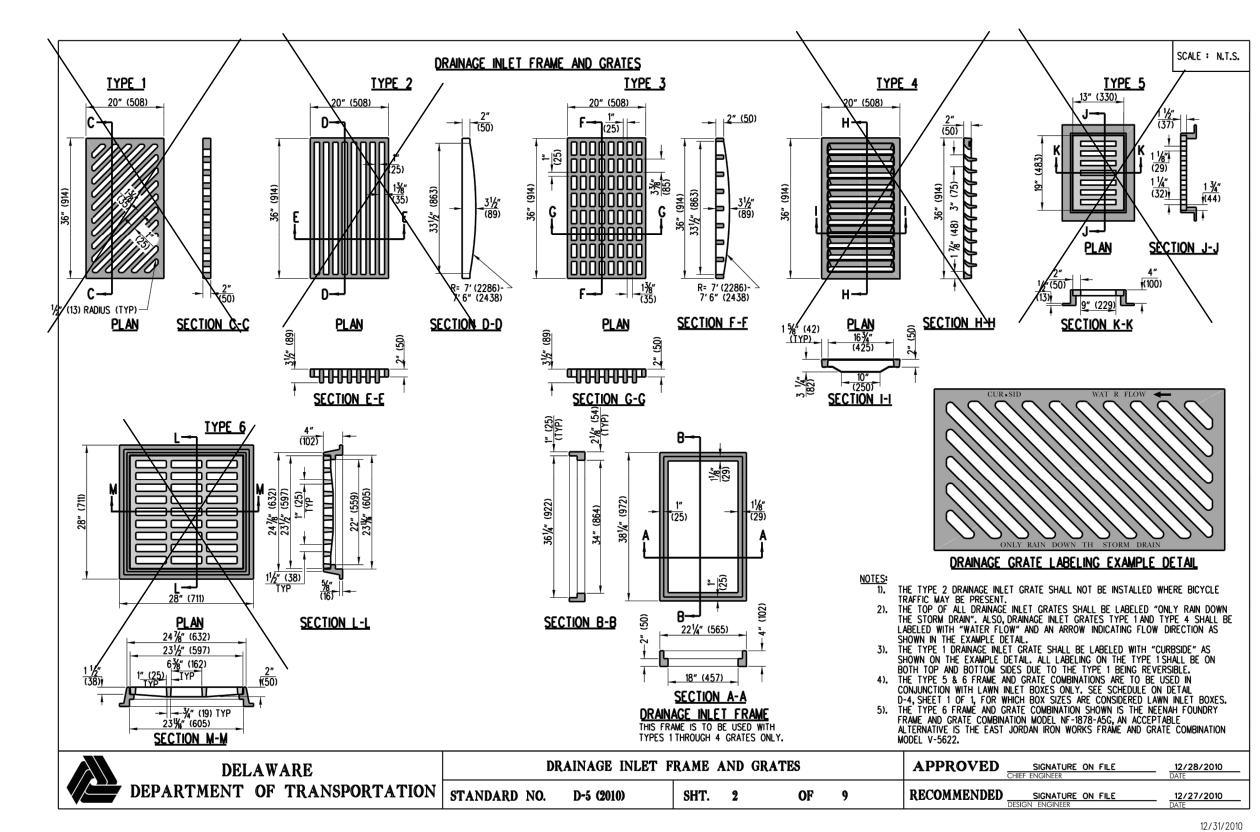


BUILDING LATERAL CLEANOUT DETAIL NOT TO SCALE

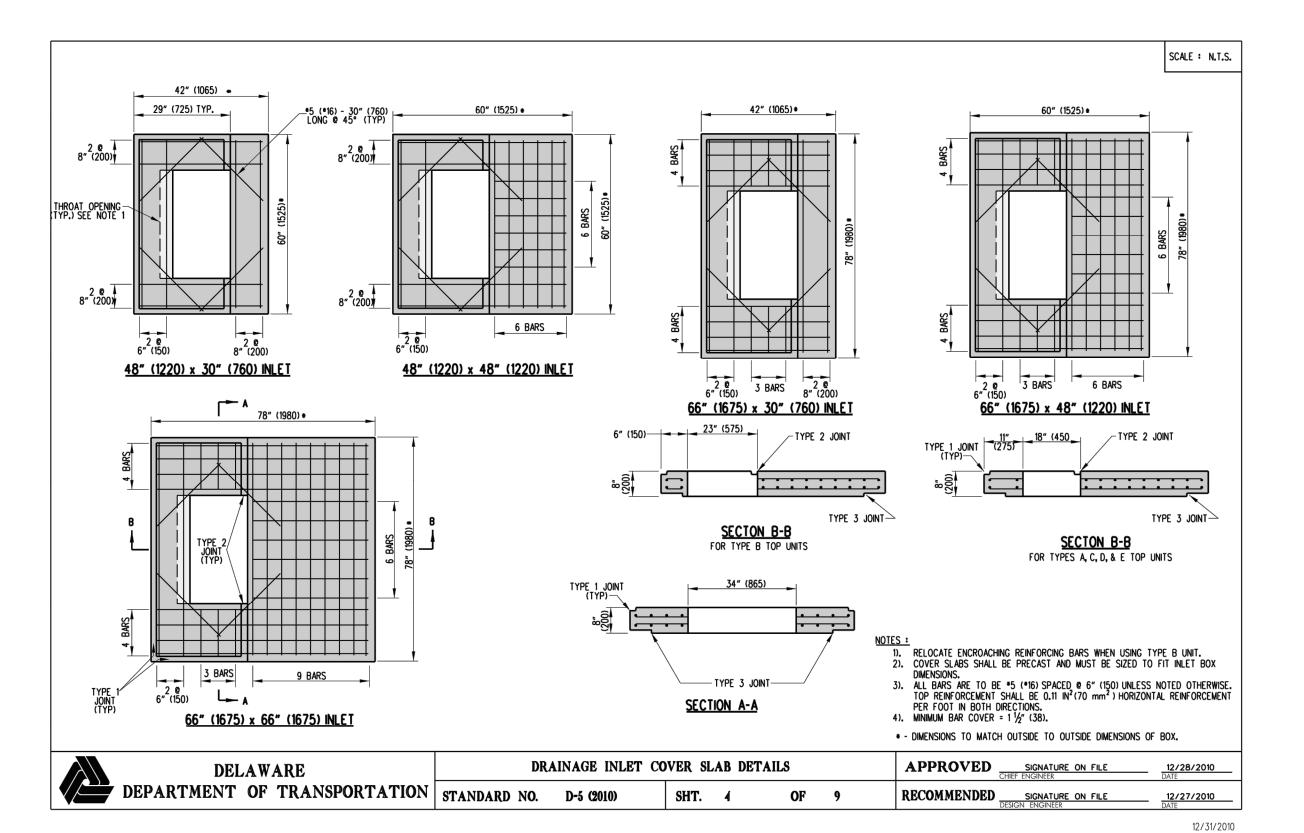


REPLACE IN KIND. MATCH EXISTING AGGREGATE AND ASPHALT DEPTHS. SECTION SHALL ADHERE TO CITY OF

TRENCH BACKFILL AND PIPE BEDDING DETAIL NOT TO SCALE





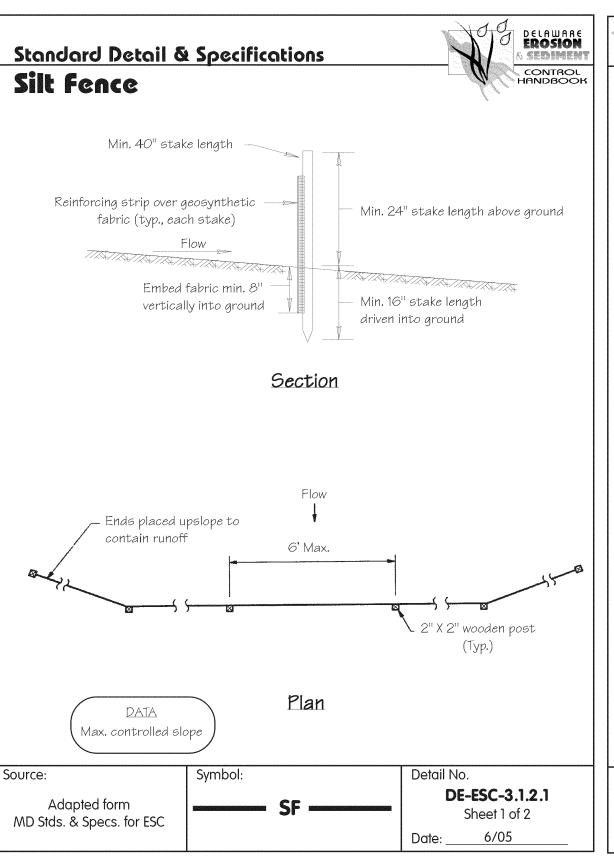


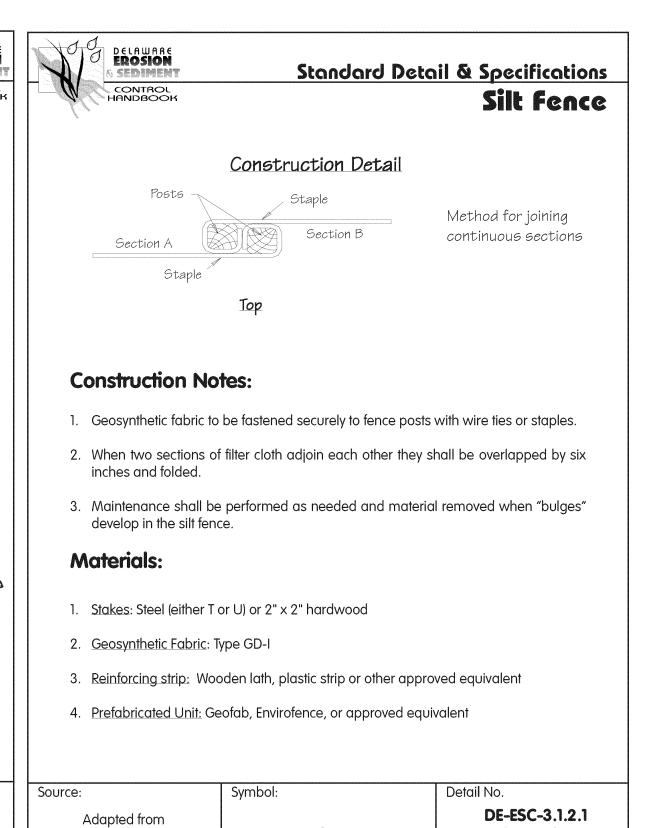
CITY OF MILFORD INLET TOP SLAB DETAIL NOT TO SCALE

NAPA VALLEY FLEX USE BUILDIN EDIMENT AND STORMWATER MANAGEM GREATER MILFORD BUSINESS COM ANS - FOR PERMITTING EA Engineering, Science, and Technology, Inc., PBC 11200 Racetrack Road, Unit A101 Ocean Pines, Maryland 21811 (410) 641-5341 www.eaest.com GRAPHIC SCALE IN FEET FULL SIZE PLOT: 24" x 36" DATE: APRIL 2023 PROJECT NUMBER: 6387801 C-502 SHEET: 10 OF 13

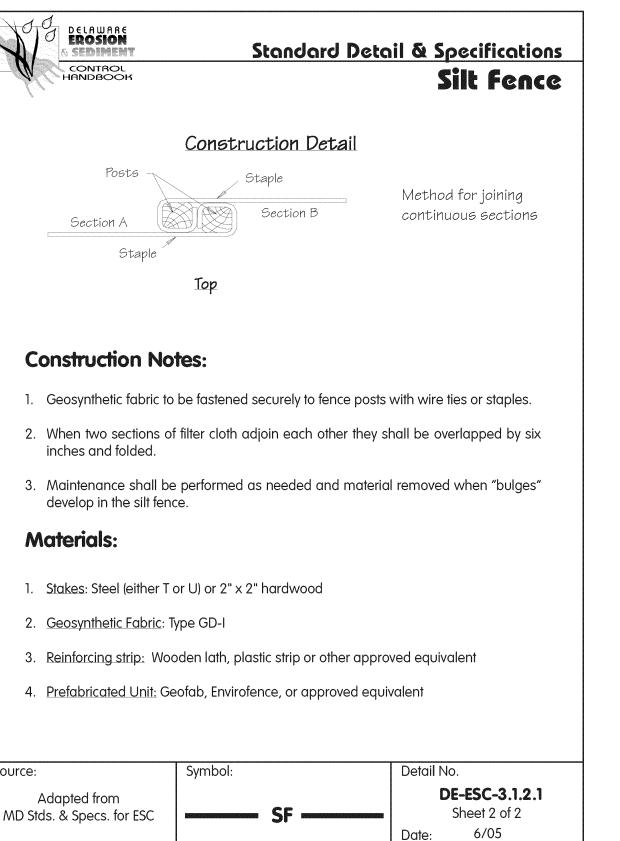
CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF DELAWARE, LICENSE NO. 16413 EXPIRATION DATE: JUNE 30, 2024

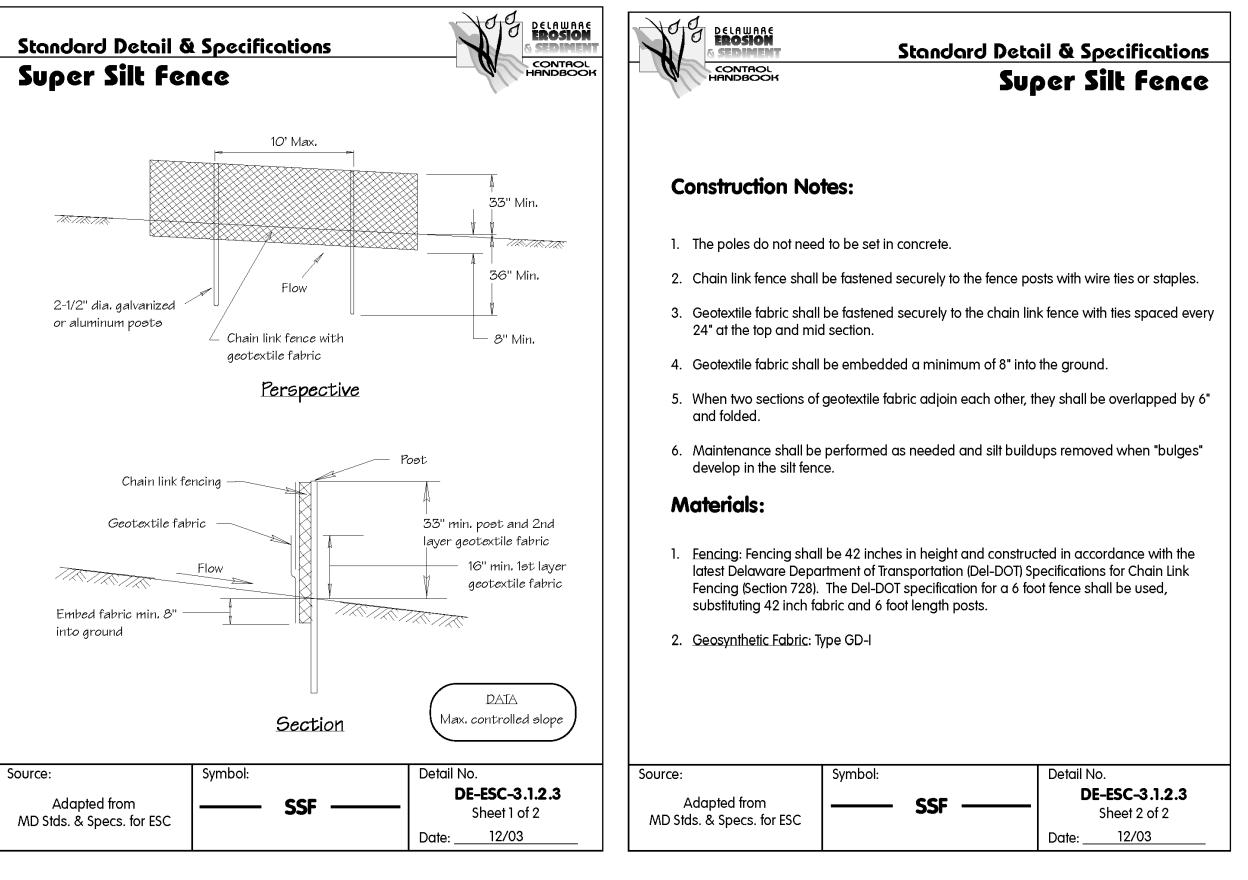
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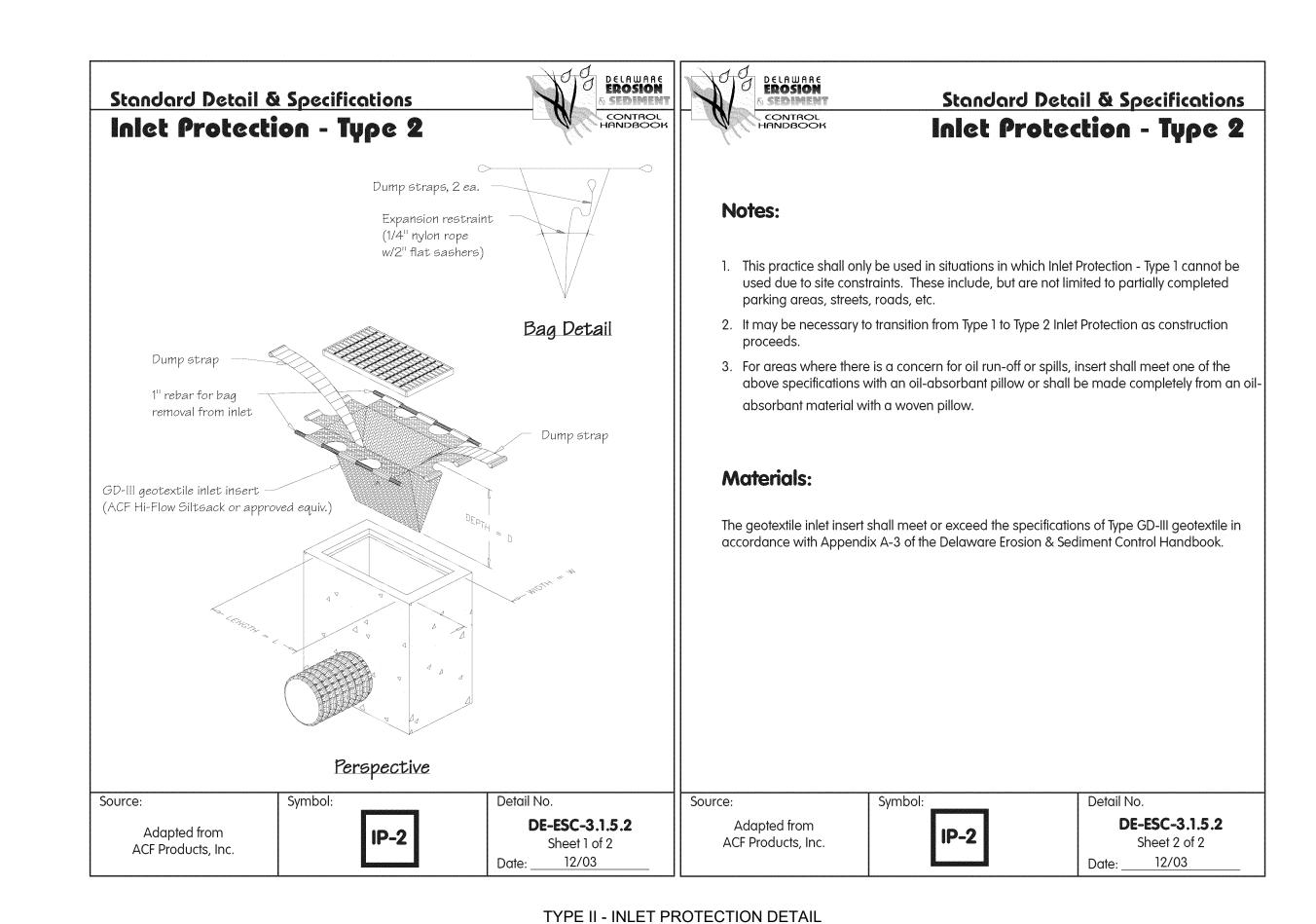


SILT FENCE DETAIL NOT TO SCALE

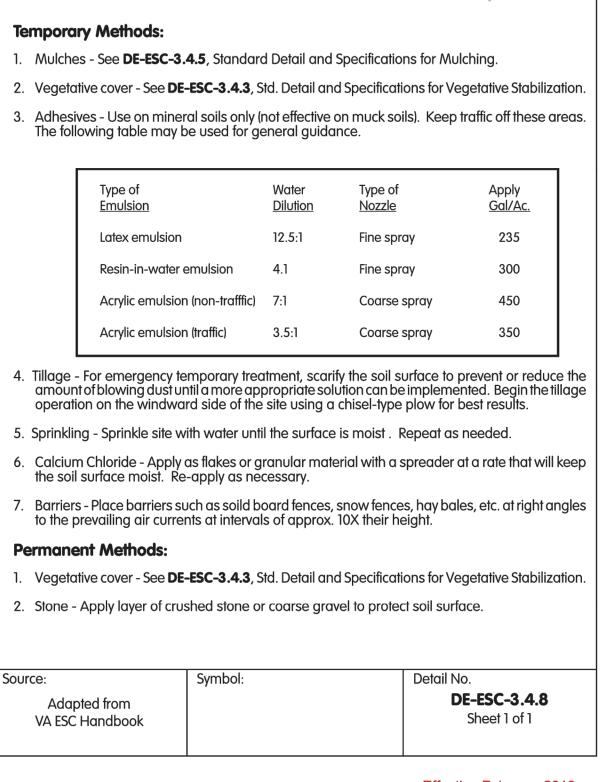




SUPER SILT FENCE DETAIL NOT TO SCALE



NOT TO SCALE

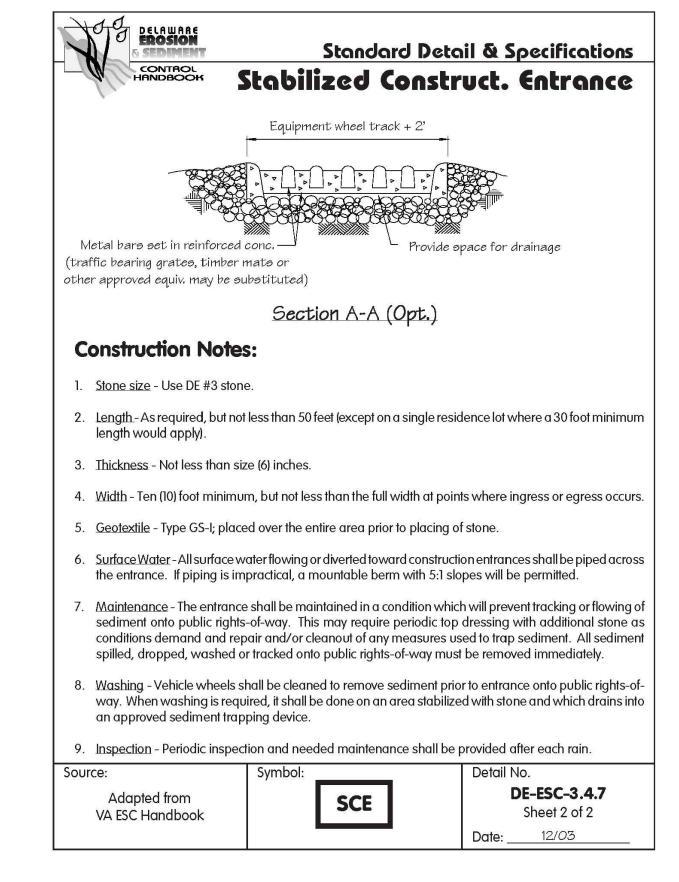


Standard Detail & Specifications

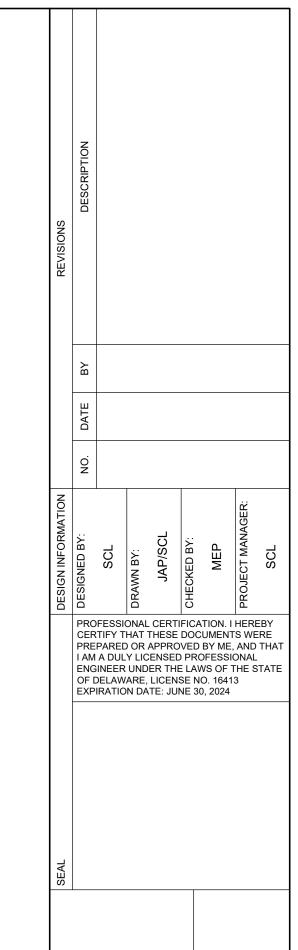
Dust Control

Effective February 2019 DUST CONTROL

NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE



GS ENT IPLE) ' FLEX USE BUILDING WWATER MANAGEME ORD BUSINESS COMF NAPA VALLEY FLE) EDIMENT AND STORMWAT GREATER MILFORD E

AND

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and Technology, Inc., PBC 11200 Racetrack Road, Unit A101 Ocean Pines, Maryland 21811

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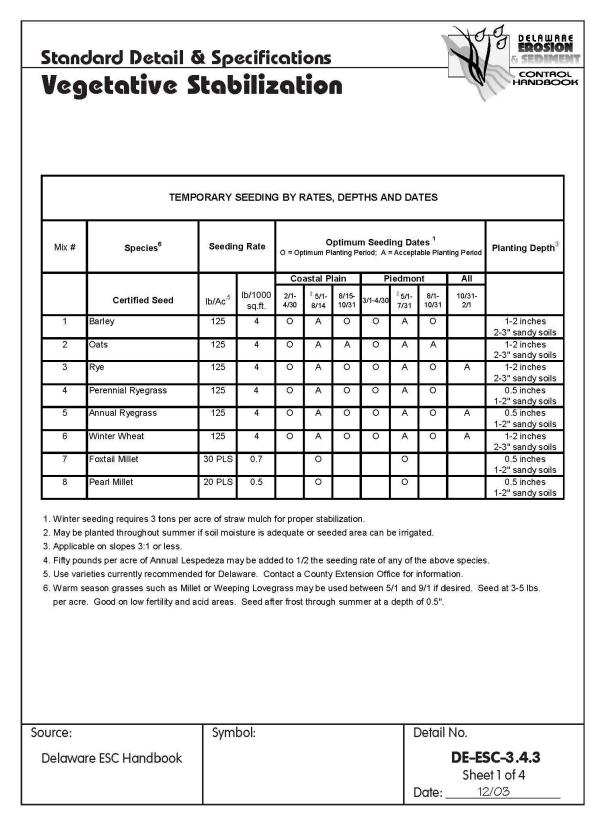
GRAPHIC SCALE IN FEET

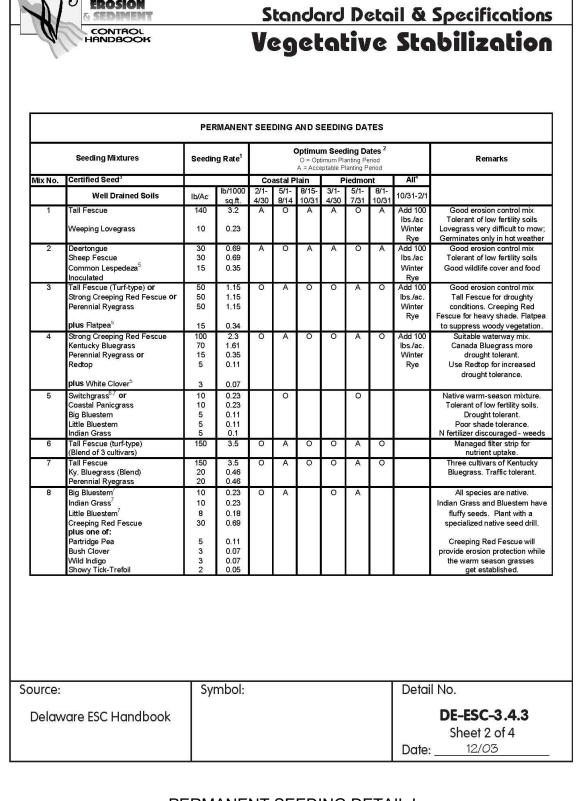
FULL SIZE PLOT: 24" x 36"

www.eaest.com

DATE: APRIL 2023 PROJECT NUMBER: 6387801

C-504 SHEET: 12 OF 13





Standard Detail & Specifications Vegetative Stabilization PERMANENT SEEDING AND SEEDING DATES (cont.) Seeding Mixtures Poorly Drained Soils High value, high maintenance, ght traffic, irrigation necessary. Well drained soils, full sun. erennial Ryegrass Moderate value. low maintenance, traffic tolerant Perennial Ryegras Chewings Fescue Rough Bluegrass moderate traffic tolerance, Monoculture, but performs well When hydroseeding is the chosen method of application, the total rate of seed should be increased by 25%.
 Winter seeding requires 3 tons per acre of straw mulch. Planting dates listed above are average for Delaware. These dates may require adjustment to reflect local conditions.

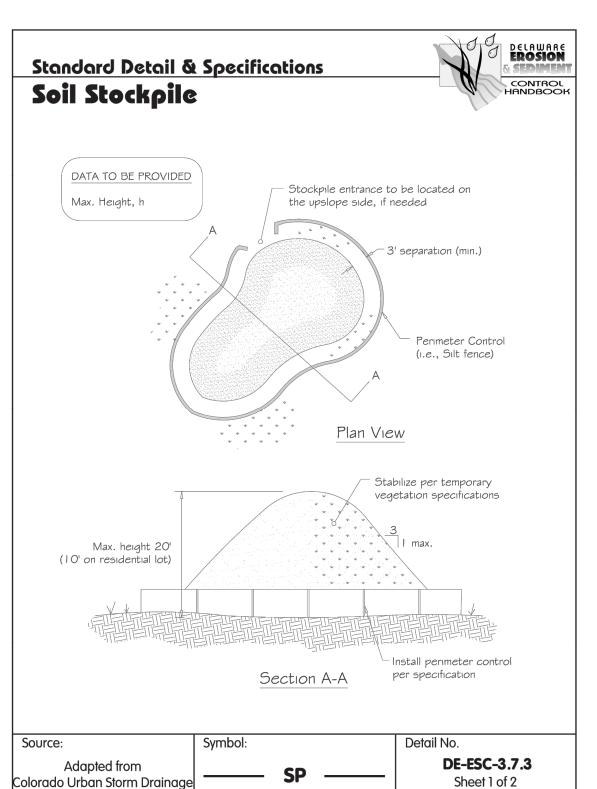
3. All seed shall meet the minimum purity and minimum germination percentages recommended by the Delaware Department of Agriculture. The maximum % of weed seeds shall be in accordance with Section 1, Chapter 24, Title 3 of the Delaware Code. Cool season species may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated Warm season grass mix and Reed Canary Grass cannot be mowed more than 4 times per year.
 Warm season grasses require a soil temperature of at least 50 degrees in order to germinate, and will remain dormant until then. Source: Detail No. **DE-ESC-3.4.3** Delaware ESC Handbook Sheet 3 of 4 12/03

Standard Detail & Specifications Vegetative Stabilization **Construction Notes:** . Site Preparation a. Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, grassed waterways, and sediment basins. b. Final grading and shaping is not necessary for temporary seedings. 2. Seedbed Preparation It is important to prepare a good seedbed to insure the success of establishing vegetation. The seedbed should be well prepared, loose, uniform, and free of large clods, rocks, and other objectionable material. The soil surface should not be compacted or crusted. 3. Soil Amendments a. Lime - Apply liming materials based on the recommendations of a soil test in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply dolomitic limestone at the rate of 1 to 2 tons per acre. Apply limestone uniformly and incorporate into the top 4 to 6 inches of soil. b. Fertilizer - Apply fertilizer based on the recommendations of a soil test in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply a formulation of 10-10-10 at the rate of 600 pounds per acre. Apply fertilizer uniformly and incorporate into the top 4 to 6 inches of soils. a. For temporary stabilization, select a mixture from Sheet 1. For a permanent stabilization, select a mixture from **Sheet 2** or **Sheet 3** depending on the conditions. b. Apply seed uniformly with a broadcast seeder, drill, cultipacker seeder or hydroseeder. All seed will be applied at the recommended rate and planting depth. c. Seed that has been broadcast should be covered by raking or dragging and then <u>lightly</u> tamped into place using a roller or cultipacker. If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be done immediately and without 5. Mulching All mulching shall be done in accordance with detail **DE-ESC-3.4.5**. Detail No. Delaware ESC Handbook **DE-ESC-3.4.3** Sheet 4 of 4 Date: 12/03 **VEGETATIVE STABILIZATION NOTES** NOT TO SCALE

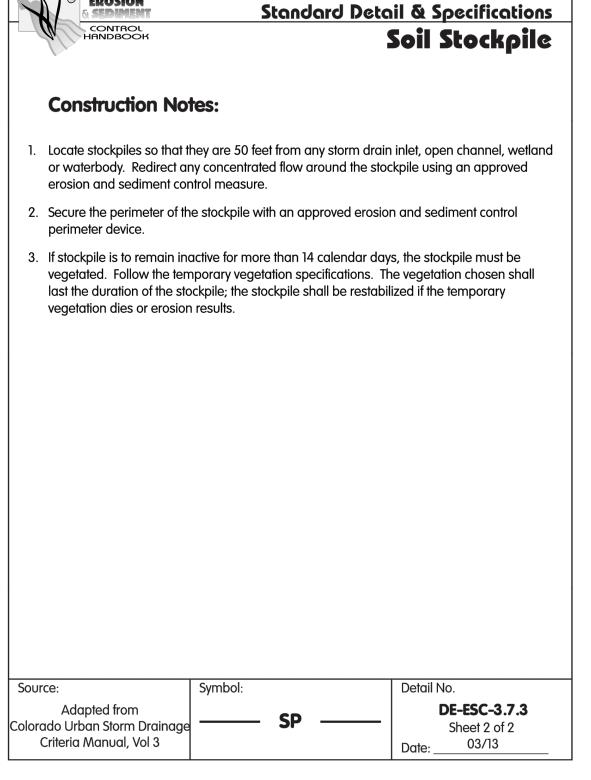
TEMPORARY SEEDING DETAIL NOT TO SCALE

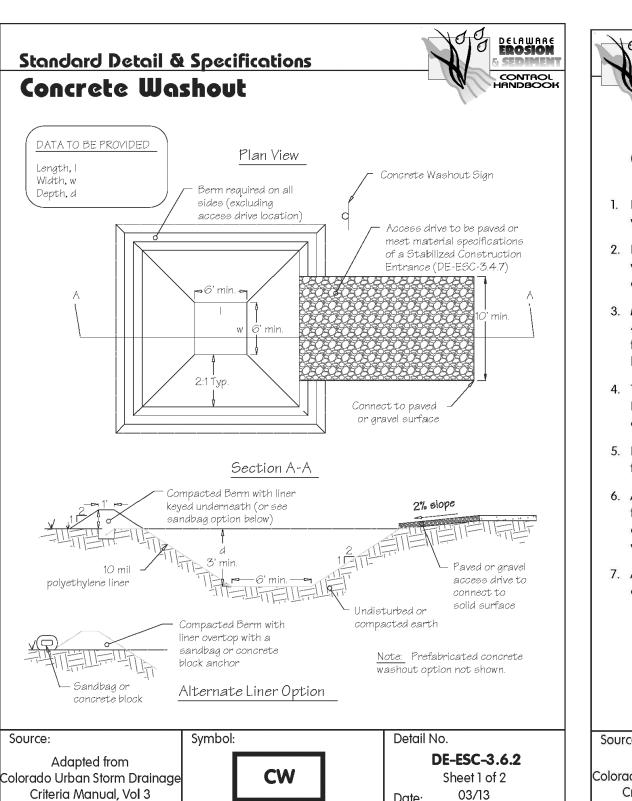
PERMANENT SEEDING DETAIL I NOT TO SCALE

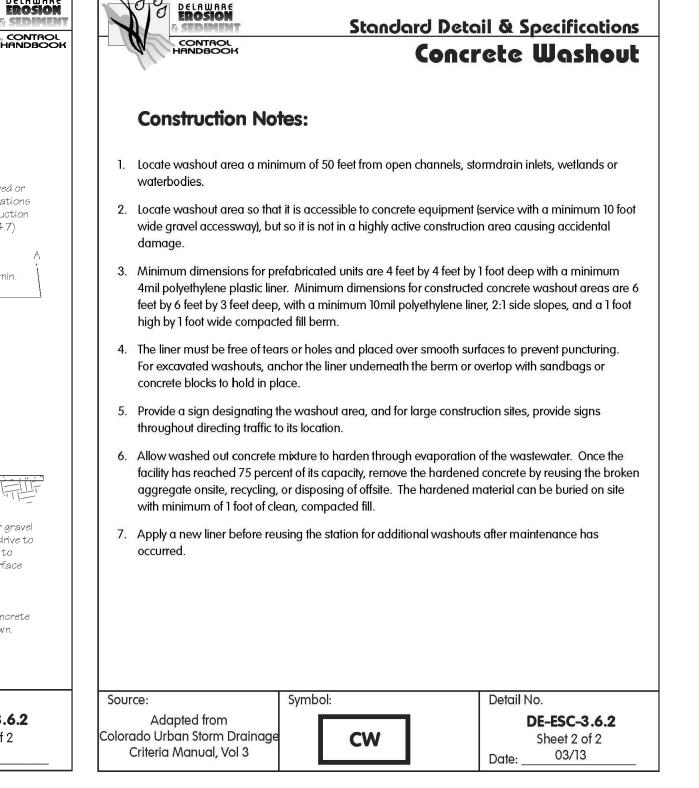
PERMANENT SEEDING DETAIL II NOT TO SCALE



Criteria Manual, Vol 3







CONCRETE WASHOUT AREA DETAIL

NOT TO SCALE

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THA I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF DELAWARE, LICENSE NO. 16413 EXPIRATION DATE: JUNE 30, 2024 GS ENT PLE S NAPA VALLEY FLEX USE BUILDIN DIMENT AND STORMWATER MANAGEM GREATER MILFORD BUSINESS COM

ANS - FOR PERMITTING EA Engineering, Science, and Technology, Inc., PBC 11200 Racetrack Road, Unit A101 Ocean Pines, Maryland 21811 (410) 641-5341 www.eaest.com GRAPHIC SCALE IN FEET FULL SIZE PLOT: 24" x 36"

C-505

DATE: APRIL 2023

PROJECT NUMBER: 6387801

SHEET: 13 OF 13

STOCKPILE AREA DETAIL NOT TO SCALE

03/13



- 3. Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked
- 4. Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
- 5. Place a "Fueling Area" sign next to each fueling area. 6. Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
- 7. Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks
- 8. Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel
- 9. If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.
- 10. Properly dispose of used oil, fluids, lubricants and spill clean-up materials. CLEAN UP SPILLS
- 1. If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material
- 2. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
- 3. Do not bury spills or wash them down with water. LEAKS AND DRIPS
- 1. Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
- 2. Do not allow oil, grease, fuel or chemicals to drip onto the ground.
- 3. Have spill kits and clean up material on-site.
- 4. Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
- Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.

6. Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.					
Source:	Symbol:	Detail No.			
Delaware ESC Handbook		DE-ESC-3.6.1 Sheet 2 of 5			
		Date:03/13			
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Notes:

The Construction Site Pollution Prevention Plan should include the following elements:

- **Material Inventory**
- 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. All materials shall be stored in a neat, orderly manner in their original labeled containers
- c. Substances shall not be mixed.
- d. When possible, all of a product shall be used up prior to disposal of the container.
- e. Manufacturers' instructions for disposal shall be strictly adhered to.
- f. The site foreman shall designate someone to inspect all BMPs daily.

Waste management practices

- a. All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.
- b. Waste materials shall be salvaged and/or recycled 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 dumpsters.

ource:	Symbol:	Detail No.			
Adapted from USEPA Pub. 840-B-92-002			-ESC-3.6.1 Sheet 3 of 5		
		Date:	03/13		

DELAWARE EROSION Standard Detail & Specifications Construction Site Waste Mgt & Spill Control

Notes (cont.)

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

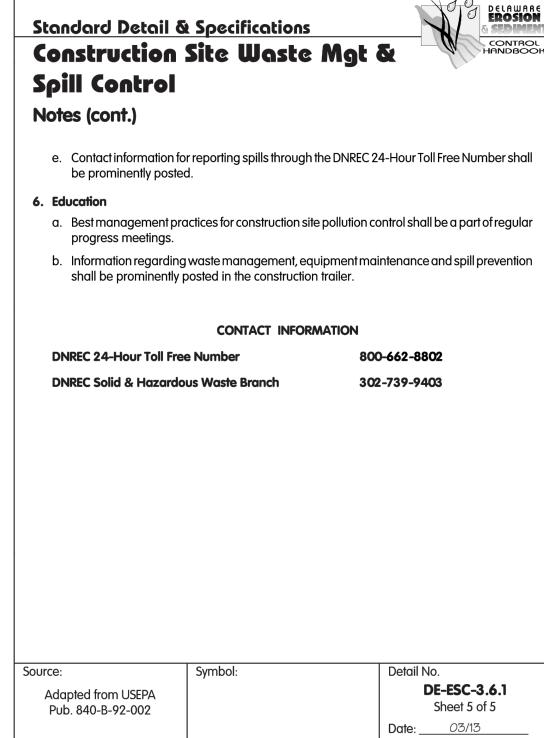
4. Equipment maintenance practices

- a. If possible, equipment should be taken to off-site commercial facilities for washing and
- b. If performed on-site, vehicles shall be washed with high-pressure water spray without detergents in an area contained by an impervious berm.
- Drip pans shall be used for all equipment maintenance.
- d. Equipment shall be inspected for leaks on a daily basis.
- e. Washout from concrete trucks shall be disposed of in a temporary pit for hardening and proper disposal.
- f. Fuel nozzles shall be equipped with automatic shut-off valves.
- g. All used products such as oil, antifreeze, solvents and tires shall be disposed of in accordance with manufacturers' recommendations and local, state and federal laws and

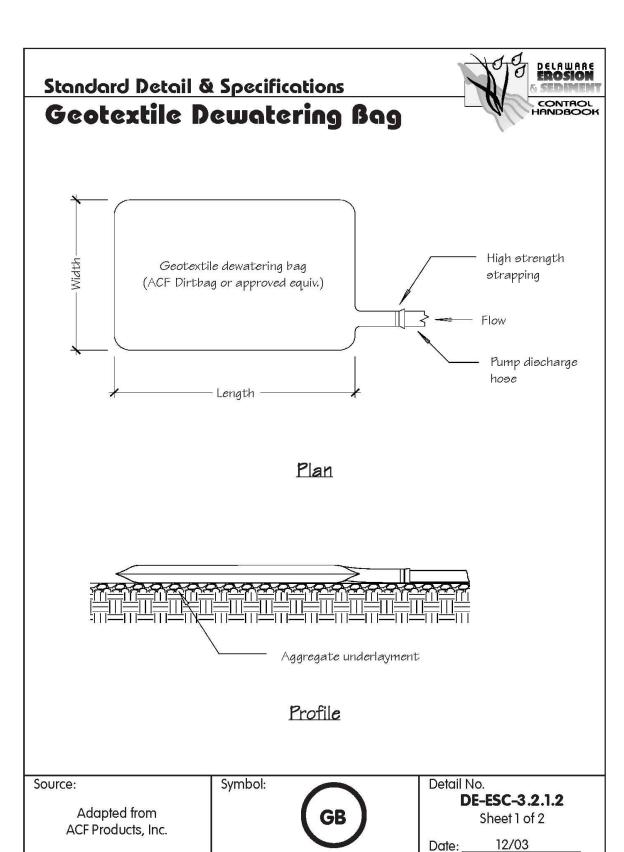
5. Spill prevention practices

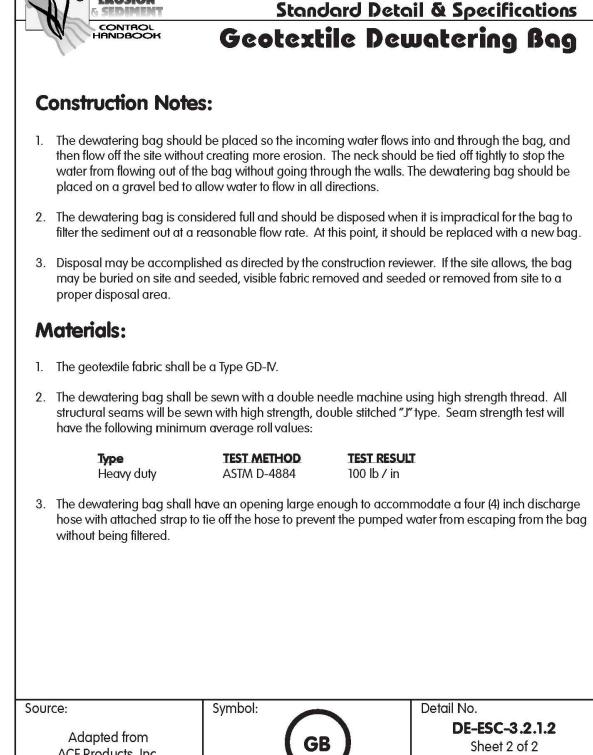
- a. Potential spill areas shall be identified and contained in covered areas with no connection to the storm drain system.
- b. Warning signs shall be posted in hazardous material storage areas.
- c. Preventive maintenance shall be performed on all tanks, valves, pumps, pipes and other
- d. Low or non-toxic substances shall be prioritized for use.

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ource:	Symbol:	Detail No.	
Adapted from USEPA Pub. 840-B-92-002		DE-ESC-3.6.1 Sheet 4 of 5	
		Date: <u>03/13</u>	



CONSTRUCTION SITE, WASTE MGMT., AND SPILL CONTROL DETAILS NOT TO SCALE





Sheet 2 of 2

12/03

Date:

DEWATERING BAG DETAIL NOT TO SCALE

ACF Products, Inc.

STANDARD SEDIMENT AND STORMWATER CONSTRUCTION NOTES

- 1. THE KENT CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANT WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- 3. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY KENT CONSERVATION DISTRICT.
- 4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES. AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- 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 DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.
- POST CONSTRUCTION VERIFICATION DOCUMENT ARE TO BE SUBMITTED TO THE KENT CONSERVATION DISTRICT WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION
- APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC. NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- 10. THE NOTICE OF INTENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT IS #----. AT ANY TIME THE OWNERSHIP FOR THIS PROJECT CHANGES, A TRANSFER OF AUTHORIZATION OR A CO-PERMITTEE APPLICATION MUST BE SUBMITTED TO DNREC. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY DNREC.
- 11. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOTS OF THESE INSPECTIONS.
- 12. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEASE 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES
- 13. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/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 MEASURE IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEW.
- 14. BEST AVAILABLY TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH THE REQUIREMENT OF 9. DEL C. CH 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND DEPARTMENT POLICIES, PROCEDURES, AND
- DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOILS AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT OF DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORALITY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN. THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OR PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.

SEDIMENT AND STORMWATER CONSTRUCTION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTAINANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL UTILIZE A WATER TRUCK TO DOSE DISTURBED EARTH AT ANY AND ALL TIMES
- THAT SEDIMENT PARTICLES BECOME AIRBORNE. ESTIMATED CUT VOLUME = 2250 C.Y. ESTIMATED FILL VOLUME = 750 C.Y. QUANTITIES SHOWN ARE FOR PERMITTED USE ONLY AND SHALL NOT BE UTILIZED FOR BIDDING PURPOSES.

SEDIMENT AND STORMWATER SEQUENCE OF CONSTRUCTION

- NOTIFY KENT 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.
- OBTAIN THE REQUIRED PERMITS THROUGH ALL OF THE REGULATORY AGENCIES.
- CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK FOR THE DEMARCATION OF KNOWN UTILITIES IN THE PROJECT VICINITY.
- PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES, OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULE AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER. THE LANDOWENER/DEVELOPER, CONTRACTOR, AND CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING: THE ENGINEER IS RECOMMENDED TO ATTEND.
- ALL MATERIALS STORED ON SITE SHALL BE PROTECTED AND PROPER SAFETY MEASURES SHALL BE PROVIDED TO ENSURE MATERIALS DO NOT FAIL TO REMAIN ONSITE.
- CLEAR AND GRUB ANY MATERIAL NEEDED TO INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, SUPER SILT FENCE AND INLET PROTECTION.
- ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF/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 SHALL 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.
- STRIP TOPSOIL AND STOCKPILE ONSITE OR HAUL OFFISTE TO AN AGENCY APPROVED LOCATION 11. PERFORM ROUGH GRADING OF THE SITE.
- 12. COMMENCE BUILDING CONSTRUCTION.
- 13. EXCAVATE AND INSTALL THE PROPOSED UTILITIES: WATER, SEWER, ELECTRIC, NATURAL GAS, ETC. PROVIDING TEMPORARY CAPS OR CLEANOUTS AS NECESSARY PRIOR TO MAKING FINAL CONNECTIONS AT
- ONCE THE BUILDING IS SUBSTANTIALLY COMPETED, PERFORM FINE GRADING OF THE SITE.
- 15. FORM AND POUR CONCRETE CURBS
- 16. INSTALL PAVEMENT SECTION THROUGH BASE PAVING.
- 17. FORM AND POUR SIDEWALKS AND TRASH ENCLOSURE PAD.
- 18. INSTALL TRASH ENCLOSURE
- 19. PERFORM SURFACE PAVING AND FINAL STABILIZATION. 20. PERFORM PARKING STRIPE INSTALLATION.
- 21. EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED, STABILIZED, AND WITH THE WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION
- SITE REVIEWER. 22. PERFORM REMOVAL OF SEDIMENT CONTROL DEVICES AT THE AGENCY CONSTRUCTION SITE REVIEWER'S APPROVAL. PERFORM ALL FINAL STABILIZATION NEEDED IN AREAS DISTURBED DURING THE REMOVAL PROCESS.
- REMOVE ANY AND ALL REMAINING DEBRIS OR TRASH FROM THE SITE.
- THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENT, 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.

PROFESSIONAL CERTIFICATION, I HEREB CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THA I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF DELAWARE, LICENSE NO. 16413 **EXPIRATION DATE: JUNE 30, 2024**

> GS EN PL BUILDING ANAGEME ESS COME

 \Box

EA Engineering, Science, and Technology, Inc., PBC

Ocean Pines, Maryland 21811 (410) 641-5341 www.eaest.com

AS SHOWN

11200 Racetrack Road, Unit A101

FULL SIZE PLOT: 24" x 36"

DATE: APRIL 2023 PROJECT NUMBER: 6387801

> C-503 SHEET: 11 OF 13