

- NOTES:**
- SEE SEQUENCE OF CONSTRUCTION FOR PHASING OF DEMOLITION.
 - SEE SPECIFIC DEMOLITION SHEETS FOR LIMIT OF REMOVAL. ADDITIONAL DEMOLITION SHOWN ON SPECIFIC SHEETS.
 - FOR ALL STRUCTURES BEING DEMOLISHED, CAP ALL PIPING AT TANK WALL.
 - FOR ALL STRUCTURES BEING DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL PANELS, EQUIPMENT, AND CONDUIT ON THE STRUCTURE AND REMOVE ALL ELECTRICAL WIRING BACK TO ITS SOURCE.
 - COMPLETELY REMOVE/DEMOLISH ABANDONED PIPING IN AREAS OF NEW WORK.
 - DEMOLISH STRUCTURES IN THEIR ENTIRETY AND RETURN SITE TO GRADE. NO PORTION OF THE STRUCTURE SHALL REMAIN BELOW GRADE.
 - TEMPORARY REMOVAL OF FENCING NEAR NEW MBR STRUCTURE MAY BE REQUIRED FOR CONSTRUCTION. REPLACE FENCE AS NEEDED ONCE MBR FACILITY IS IN PLACE.
 - THE EXISTING DECANT TANK IS RENAMED AS THE SUMP PUMP AND VALVE VAULT ON ALL SHEETS.

- LEGEND**
- DEMOLISH
 - PIPE TO BE DEMOLISHED
 - PIPE TO BE ABANDONED IN PLACE



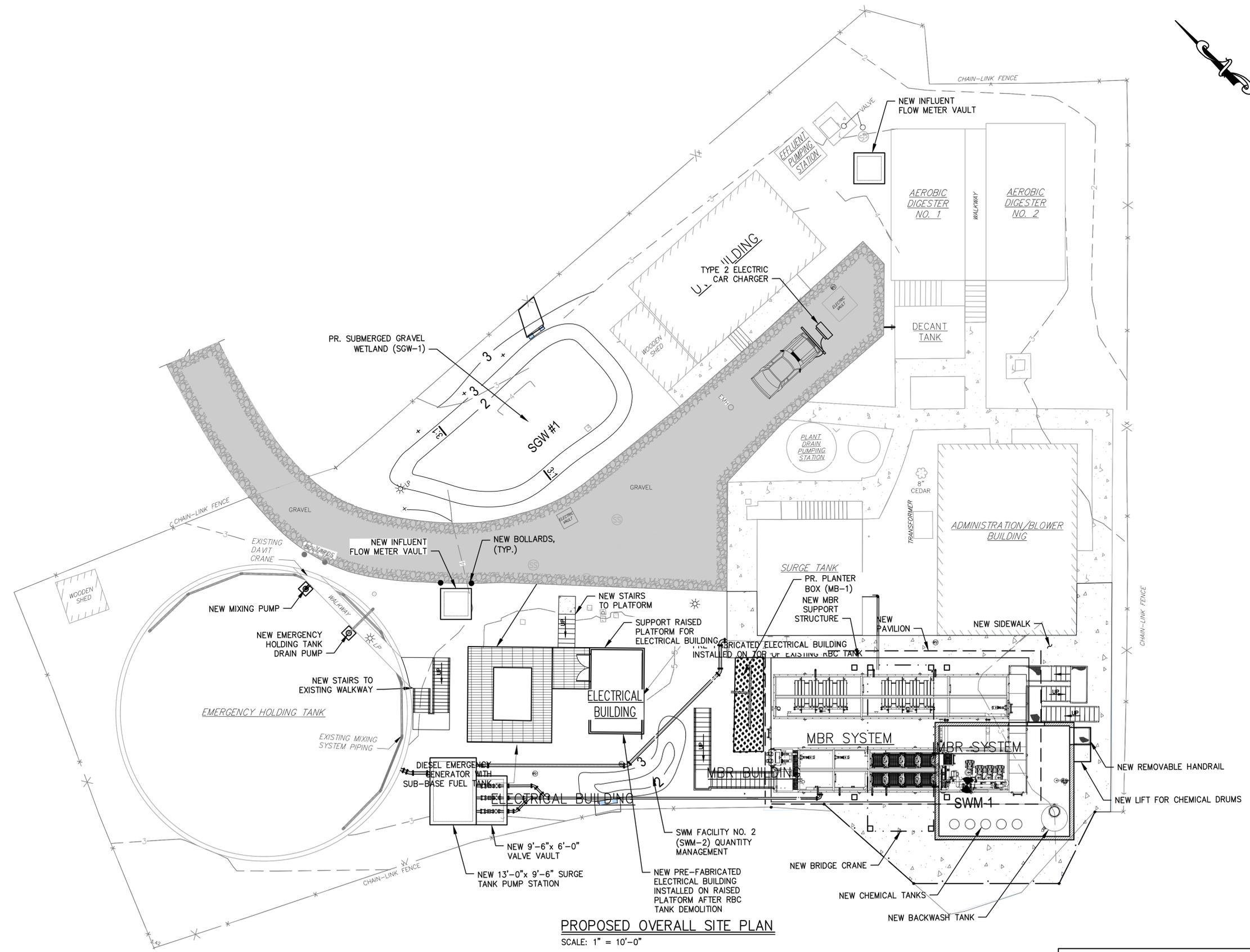
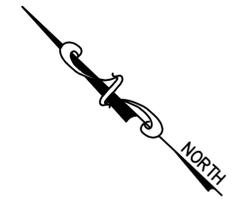
DEMOLITION OVERALL SITE PLAN
SCALE: 1" = 10'-0"

MDE No.: 24-SF-0044

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38365, EXPIRATION DATE: 01-08-2026.



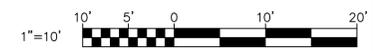
 BENICO, LLC 8115 Maple Lawn Blvd, Suite 350 Fulton, MD 20759 (301) 509-1237	 P: 410.728.2900 700 EAST PRATT STREET SUITE 500 BALTIMORE, MD 21202 Engineers Construction Managers Planners Scientists www.rkk.com Responsive People Creative Solutions	 Maryland ENVIRONMENTAL SERVICE	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	BY	DATE													DESIGNED BY: DRAWN BY: CHECKED BY: PROJECT NO.: PROPOSAL NO.:	POINT LOOKOUT STATE PARK WWTP ENR UPGRADE	SWM CONCEPT AND EROSION & SEDIMENT CONTROL PLAN DEMOLITION PLAN	SCALE: AS SHOWN SHEET No. <u>2</u> OF <u>10</u>	DATE: JANUARY 2024 DRAWING CE-101
			NO.	DESCRIPTION	BY	DATE																		



PROPOSED OVERALL SITE PLAN
SCALE: 1" = 10'-0"

MDE No.: 24-SF-0044

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38365, EXPIRATION DATE: 01-06-2026.



BENICO
BENICO, LLC
8115 Maple Lawn Blvd, Suite 350
Fulton, MD 20759
(301) 509-1237

RK&K
P: 410.728.2900
700 EAST PRATT STREET | SUITE 500 | BALTIMORE, MD 21202
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

Maryland ENVIRONMENTAL SERVICE

REVISIONS			
NO.	DESCRIPTION	BY	DATE

DESIGNED BY:
DRAWN BY:
CHECKED BY:
PROJECT NO.:
PROPOSAL NO.:

POINT LOOKOUT
STATE PARK WWTW
ENR UPGRADE

SWM CONCEPT AND EROSION
& SEDIMENT CONTROL PLAN
PROPOSED SITE PLAN

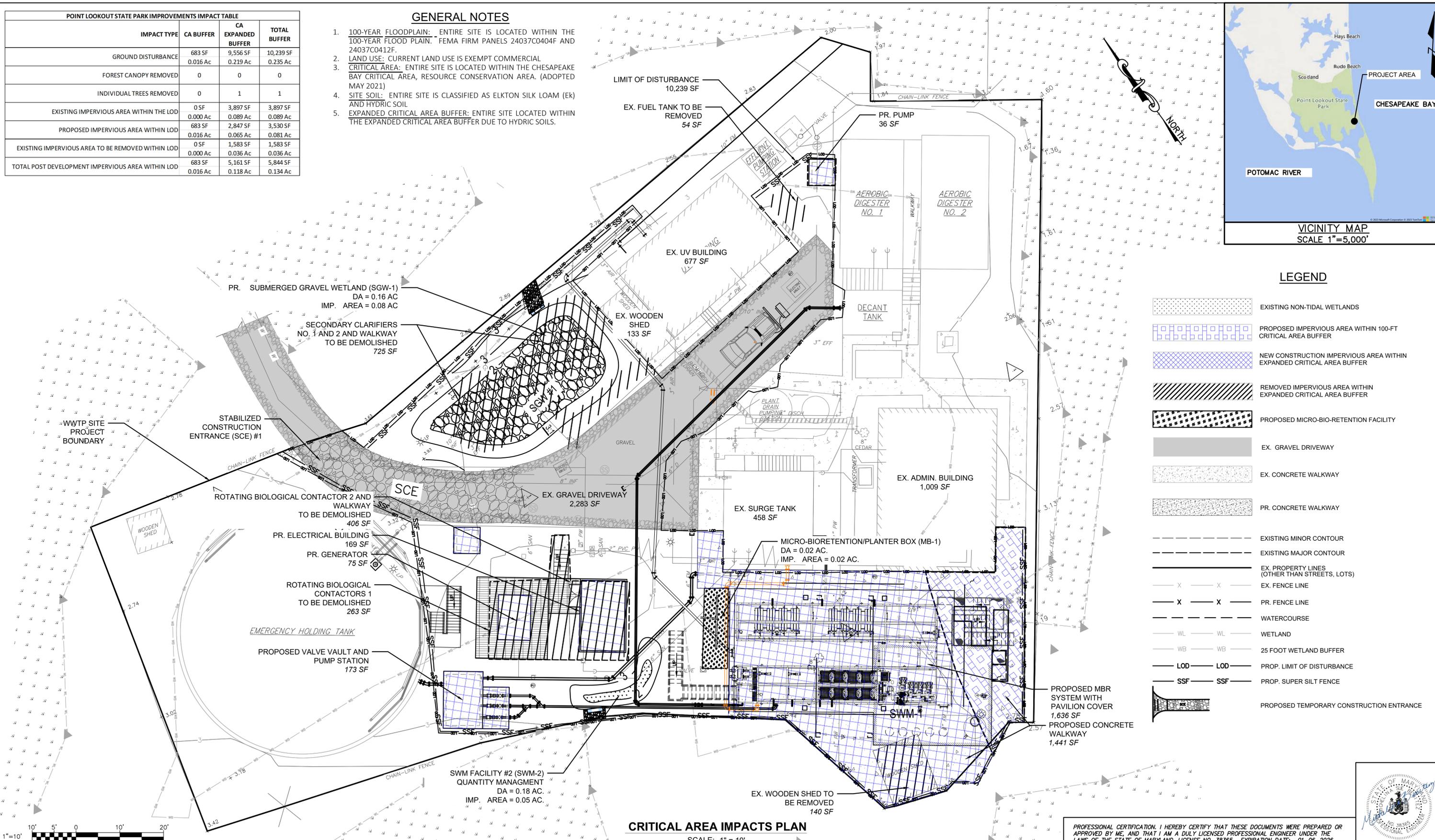
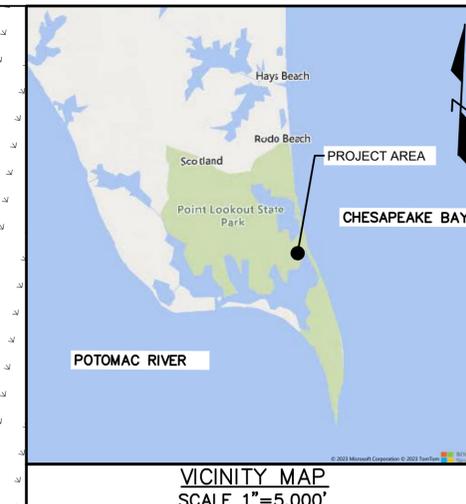
SCALE:
AS SHOWN
SHEET
No. 3
OF 10

DATE:
JANUARY 2024
DRAWING
CE-102

POINT LOOKOUT STATE PARK IMPROVEMENTS IMPACT TABLE			
IMPACT TYPE	CA BUFFER	CA EXPANDED BUFFER	TOTAL BUFFER
GROUND DISTURBANCE	683 SF 0.016 Ac	9,556 SF 0.219 Ac	10,239 SF 0.235 Ac
FOREST CANOPY REMOVED	0	0	0
INDIVIDUAL TREES REMOVED	0	1	1
EXISTING IMPERVIOUS AREA WITHIN THE LOD	0 SF 0.000 Ac	3,897 SF 0.089 Ac	3,897 SF 0.089 Ac
PROPOSED IMPERVIOUS AREA WITHIN LOD	683 SF 0.016 Ac	2,847 SF 0.065 Ac	3,530 SF 0.081 Ac
EXISTING IMPERVIOUS AREA TO BE REMOVED WITHIN LOD	0 SF 0.000 Ac	1,583 SF 0.036 Ac	1,583 SF 0.036 Ac
TOTAL POST DEVELOPMENT IMPERVIOUS AREA WITHIN LOD	683 SF 0.016 Ac	5,161 SF 0.118 Ac	5,844 SF 0.134 Ac

GENERAL NOTES

- 100-YEAR FLOODPLAIN: ENTIRE SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PLAIN. FEMA FIRM PANELS 24037C0404F AND 24037C0412F.
- LAND USE: CURRENT LAND USE IS EXEMPT COMMERCIAL CRITICAL AREA. ENTIRE SITE IS LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA, RESOURCE CONSERVATION AREA. (ADOPTED MAY 2021)
- SITE SOIL: ENTIRE SITE IS CLASSIFIED AS ELKTON SILK LOAM (EK) AND HYDRIC SOIL
- EXPANDED CRITICAL AREA BUFFER: ENTIRE SITE LOCATED WITHIN THE EXPANDED CRITICAL AREA BUFFER DUE TO HYDRIC SOILS.



LEGEND

- EXISTING NON-TIDAL WETLANDS
- PROPOSED IMPERVIOUS AREA WITHIN 100-FT CRITICAL AREA BUFFER
- NEW CONSTRUCTION IMPERVIOUS AREA WITHIN EXPANDED CRITICAL AREA BUFFER
- REMOVED IMPERVIOUS AREA WITHIN EXPANDED CRITICAL AREA BUFFER
- PROPOSED MICRO-BIO-RETENTION FACILITY
- EX. GRAVEL DRIVEWAY
- EX. CONCRETE WALKWAY
- PR. CONCRETE WALKWAY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EX. PROPERTY LINES (OTHER THAN STREETS, LOTS)
- EX. FENCE LINE
- PR. FENCE LINE
- WATERCOURSE
- WETLAND
- 25 FOOT WETLAND BUFFER
- PROP. LIMIT OF DISTURBANCE
- PROP. SUPER SILT FENCE
- PROPOSED TEMPORARY CONSTRUCTION ENTRANCE

CRITICAL AREA IMPACTS PLAN

SCALE: 1" = 10'

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38365, EXPIRATION DATE: 01-06-2026.



 BENICO, LLC 8115 Maple Lawn Blvd, Suite 350 Fulton, MD 20759 (301) 509-1237	 RK&K P: 410.728.2900 700 EAST PRATT STREET SUITE 500 BALTIMORE, MD 21202 Engineers Construction Managers Planners Scientists www.rkk.com Responsive People Creative Solutions	 Maryland ENVIRONMENTAL SERVICE	REVISIONS NO. DESCRIPTION BY DATE	DESIGNED BY: MSB DRAWN BY: MSB CHECKED BY: FEB PROJECT NO.: PROPOSAL NO.:	POINT LOOKOUT STATE PARK WWTP ENR UPGRADE	CRITICAL AREA IMPACTS PLAN PLAN VIEW	SCALE: AS SHOWN	DATE: MAY 2024
			SHEET No. 1 OF 2	DRAWING CE-110				



**CRITICAL AREA BUFFER
MITIGATION PLANTING PLAN**

SCALE: 1" = 30'

LEGEND

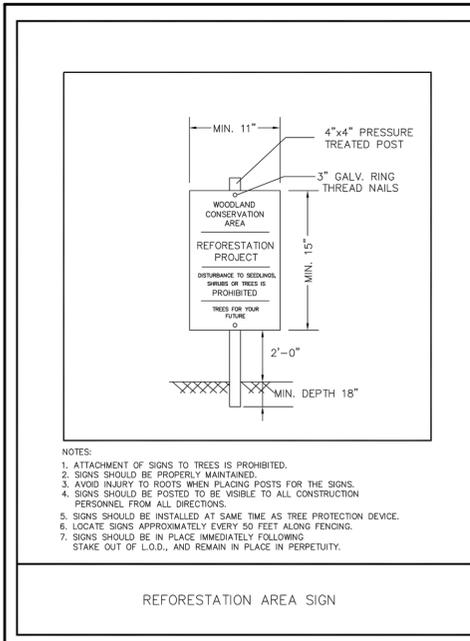
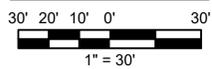


PROPOSED AREA OF REFORESTATION



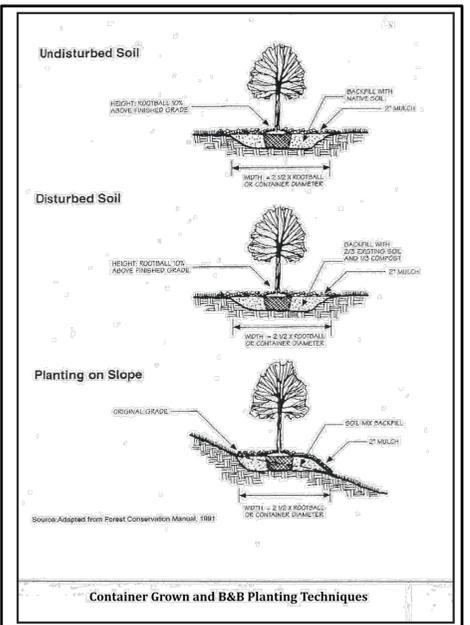
REFORESTATION AREA SIGNAGE TO BE PLACED
50' O.C. ALONG EXPOSED PERIMETER

GRAPHIC SCALE



- NOTES:
1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 2. SIGNS SHOULD BE PROPERLY MAINTAINED.
 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.
 5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.
 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.
 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

REFORESTATION AREA SIGN



Container Grown and B&B Planting Techniques

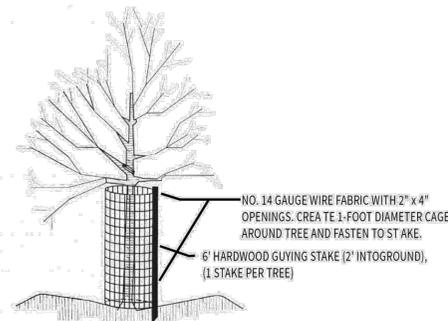
Tasks	Months											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Transplant of 2" DBH or Greater	[Recommended, Optimal time]											
Planting Seedlings, Whips	[Recommended]											
Minimum Monitoring	[Recommended]											
Fertilizer (if Needed)	[Recommended]											
Water	[Recommended]											
Planting	[Recommended]											

Notes:

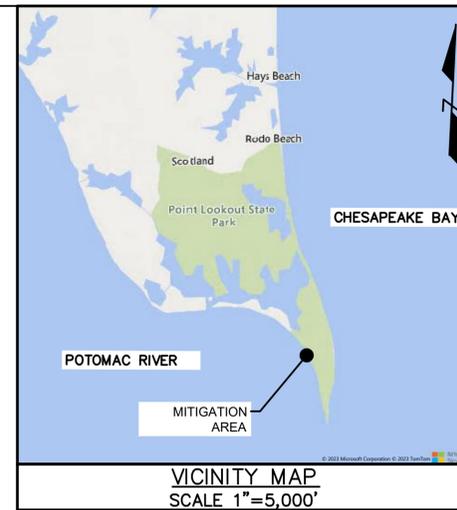
1. Activities during November through February depend on ground conditions.
2. No fall planting of oaks and pines.
3. The planting and care of trees is most successful when coordinated with the local conditions. This calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.

Source: Adapted from Forest Conservation Manual, 1991

Deer Protection Fencing



- Notes:
1. Height of cage shall be 4-feet (min.).
 2. Cage shall be fastened to stake with two (min.) 11-inch releasable cable ties (one at top and one 6" (min.) above the ground).
 3. Do not damage tree during installation.
 4. Substitutions must be approved by Forest Conservation Inspector.
 5. Cases to be removed at direction of Forest Conservation Inspector.



VICINITY MAP
SCALE 1"=5,000'

MITIGATION REQUIREMENT CALCULATIONS

MITIGATION TYPE	Area (Ft ²)	Ratio of Mitigation	Total Mitigation Required (Ft ²)	Total Mitigation Required (Ac)
Total Disturbance in Critical Area Buffer:	10,239	1:1	10,239	0.24
Trees Removed in Critical Area Buffer:	1-8" tree	100 SF/in. dia.	800	0.02
Total Increase in Impervious Area Critical Area Buffer:	1,947	3:1	5,841	0.13
Mitigation Required for Critical Area Buffer Impacts:			16,880	0.39
Net Total of Mitigation Proposed:			16,900	0.39

CRITICAL AREA BUFFER MITIGATION PLANTING TABLE

Tree or Shrub Species	Common Name	Plant Type ^{1,2}	Quantity (# of trees or shrubs)	Credit (SF)/Tree	Total Credit (SF)
<i>Nyssa sylvatica</i>	Black Gum	Canopy Tree	21	100	2,100
<i>Quercus nigra</i>	Water Oak	Canopy Tree	21	100	2,100
<i>Quercus coccinea</i>	Black Oak	Canopy Tree	21	100	2,100
<i>Acer Rubrum</i>	Red Maple	Canopy Tree	21	100	2,100
<i>Pinus virginiana</i>	Virginia Pine	Canopy Tree	21	100	2,100
<i>Magnolia virginiana</i>	Sweetbay magnolia	Understory Tree	22	75	1,650
<i>Morella cerifera</i>	Wax myrtle	Large Shrub	31	50	1,550
<i>Itea virginica</i>	Virginia sweetspire	Large Shrub	32	50	1,600
<i>Cephalanthus occidentalis</i>	Buttonbush	Large Shrub	32	50	1,600
Total			222		16,900

¹ All Canopy and Understory trees shall be 3/4-inch caliper and 6 feet high.
² All Large Shrubs shall be 1-gallon and 4 feet high.
³ The credited area of shrubs shall not exceed 30% of the total credit

NOTES

1. Canopy trees are those that reach a height of at least 35 feet at maturity. Canopy trees will be balled and burlapped or container stock. Stock that is 2-inch caliper is credited at 200 square feet. Stock that is 1/2-inch caliper is credited at 100 square feet. Heights may vary.
2. Understory trees are those that reach a height of 12 to 35 feet at maturity. Understory trees will be balled and burlapped or container stock. Stock that is 3/4-inch caliper is credited at 75 square feet. Heights may vary.
3. Large shrubs are those that reach a height of at least six feet at maturity. Large shrubs will be balled and burlapped or container stock and will be at least three feet high.
4. A minimum of 90% survival after 2 years of growing season (min. financial assurance period) is required for the reforestation area shown. Stabilize disturbed or bare areas with native mix and companion seed mix.
5. All plants shall be monitored and watered for a two year period as required. The contractor shall provide sufficient manpower and equipment to complete the watering as required.
6. Deer protection fencing shall be used on all tree plantings.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38365, EXPIRATION DATE: 01-06-2026.



BENICO
 BENICO, LLC
 8115 Maple Lawn Blvd, Suite 350
 Fulton, MD 20759
 (301) 509-1237

RK&K
 P: 410.728.2900
 700 EAST PRATT STREET | SUITE 500 | BALTIMORE, MD 21202
 Engineers | Construction Managers | Planners | Scientists
 www.rkk.com
 Responsive People | Creative Solutions

Maryland ENVIRONMENTAL SERVICE

REVISIONS				DESIGNED BY: MSB
NO.	DESCRIPTION	BY	DATE	DRAWN BY: MSB
				CHECKED BY: FEB
				PROJECT NO.:
				PROPOSAL NO.:

POINT LOOKOUT
STATE PARK WWTP
ENR UPGRADE

CRITICAL AREA BUFFER
MITIGATION PLANTING PLAN
PLAN VIEW

SCALE: AS SHOWN	DATE: MAY 2024
SHEET No. 2 OF 2	DRAWING CE-111