

CRITICAL AREA COMMISSION

Project Committee

Information Only

October 28, 2026

Bohemia River State Park

Maryland Department of Natural Resources

Staff: Maggie White

General Information

Type of Project:

• Major Development	• Memorandum of Understanding
• Conditional Approval	• Other _____

Authority: COMAR 27.02.06 (Conditional Approval of State or Local Agency Programs in the Critical Area)

Project Summary:

The Maryland Department of Natural Resources (DNR), Maryland Park Service (MPS) is requesting preliminary feedback from the Project Committee regarding improvements at Bohemia State Park. This project development is intended to increase visitation and access to the Park. This project requires Conditional Approval by the Critical Area Commission under COMAR 27.02.06 for the proposed non-water dependent impacts to the Buffer associated with portions of the road and Americans with Disabilities Act (ADA)-compliant parking.

Project Details:

Item	Summary
General Location (jurisdiction and site address)	Bohemia River State Park - Cecil County 4030 Augustine Herman Highway, Chesapeake City, 21915
Critical Area Designation	Resource Conservation Area (RCA)
Project Type	New development
Site Size	466 Acres; 310 acres within the Critical Area (RCA)
Habitat Protection Area (HPA) Impacts:	Expanded Buffer impacts, Forest Interior Dwelling Species (FIDS) habitat

Existing Conditions: Bohemia River State Park is approximately 466 acres, with approximately 310 acres on Critical Area lands designated as Resource Conservation Area (RCA). This is one of the newest parks in the state park system, having opened in April 2022. Bohemia River State Park is being managed as a Natural Resources Management Area, with a focus on passive recreation, including hiking, birding, paddling, fishing, hunting, and horseback riding.

The park has significant shoreline frontage to the Bohemia River, Great Bohemia Creek, and Burkalow Creek. There are numerous small streams and wetlands in the park, some of which contain rare, threatened, or endangered plant species. The existing park land contains approximately 225 acres of forest which is considered Forest Interior Dwelling Species (FIDS) habitat, 40 acres of emergent wetlands, and 112 acres in agricultural fields. Some acreage has been set aside for conservation projects and habitat restoration. In 2019, over 12 acres of crop land were converted to meadow. Since 2020, over 15 acres of native hardwood trees have been planted through a partnership with Cecil County Land Use and Development and with Maryland Forest Service's 5 Million Trees Initiative. The park is currently improved with a gravel parking lot and over 5 miles of natural-surface, multi-use trails. See attached existing conditions and site plan (Attachment: 1)

Proposed Project: The project proposes developing new park amenities and infrastructure, including an extended access road, a drop-off loop, two parking lots totaling 54 spaces (plus 6 drop-off spaces), a pavilion, a playground, a restroom facility with septic, stormwater management, and an ADA-compliant path to a kayak launch. Portions of the drop off area are located within the 300-foot Critical Area Buffer expanded for steep slopes.

Preliminary Understanding of Impacts and Requirements

Limits of Disturbance (LOD): 7.02 acres/305,586 SF (5.11 acres/222,885 SF in Critical Area RCA)

Clearing Impacts: 1.13 acres/49,478 SF

Lot Coverage: To be determined, but not expected to exceed the 15% limit in the RCA

100-foot and Expanded Buffer Impacts: 2.06 acres/90,106 SF

Proposed Mitigation (Conceptual)

While impacts and proposed mitigation are still being finalized, it is anticipated that the required mitigation for Buffer impacts and clearing outside the Buffer will be over 5 acres. The forest impacted with this project is all considered FIDS habitat.

A preliminary breakdown of the site impacts and associated mitigation are provided below.

Table 1.0 – Impacts and Mitigation

Impact Type	Impacts (SF)	Mitigation Ratio (SF)	Total Required Mitigation (SF)
Permanent Buffer Disturbance	56,391	3:1	169,173
Canopy Clearing within Buffer	33,715	1:1	33,715
Total Buffer Mitigation			202,888
Forest Clearing Outside Buffer	15,763	1:1	15,763
Total Mitigation Required			218,651 (5.02 acres)

Mitigation for this project will be fulfilled through a combination of Buffer plantings, onsite reforestation, and targeted forest restoration. MPS intends to provide approximately 5.02 acres/218,651 SF of mitigation back on site.

To fulfill the remaining mitigation, the Maryland Park Service is proposing an invasive management and forest restoration project to provide a mitigation credit at a 0.5:1 ratio for invasive species removal and an additional 1:1 credit ratio for native replanting. However, the Park Service indicated that the extensive area currently proposed for forest enhancement can create a significant ongoing maintenance burden for park staff. Therefore, alternative mitigation options are currently under discussion.

The 10% reduction requirement of 2.03 pounds of phosphorus per year (lbs. P /yr) will be met through non-rooftop disconnection points, a rain garden installation, and micro-bioretenion areas.

Commission Staff Considerations

The purpose of this preliminary discussion is to allow the Project Committee to hear directly from MPS about the need for the project, the proposed Critical Area impacts associated with this proposal, and measures taken to offset impacts, including the overall mitigation plan.

In particular, the Committee may want to consider the following during this discussion:

- Whether the Maryland Park Service has an opportunity to reconfigure and relocate portions of the project outside the Buffer and expanded Buffer, such as non-ADA parking and drop-off area, to better align with the spirit and intent of the Critical Area law and regulations;
- Whether FIDS impacts can be further minimized and canopy clearing can be reduced, including opportunities to maintain canopy to minimize impacts;
- How impacts to rare, threatened, and endangered species are minimized; and
- If the proposed mitigation plan, which includes invasive removal and replanting, satisfies the overall mitigation requirement including impacts to Forest Interior Dwelling Species (FIDS) habitat and stormwater management.

Representatives for the project from the Maryland Park Service have been invited to attend the Project Committee meeting to help answer questions and receive feedback.

If you have any questions regarding the proposed project prior to the upcoming discussion at the October Project Committee meeting, please contact Maggie White at (410)260-3489 or margaret.white@maryland.gov.

ATTACHMENTS

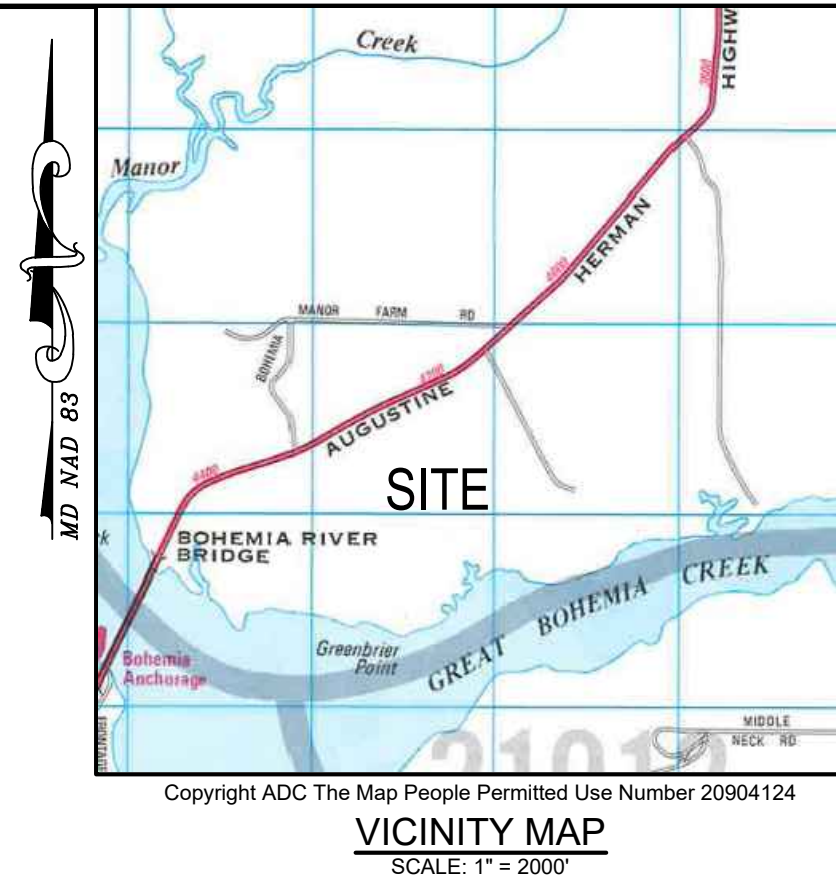
- Attachment 1: Existing conditions and site plan

FIDS NOTES:

1. FOREST INTERIOR DWELLING SPECIES (FIDS) HABITAT IS SHOWN BASED ON THE EXISTING CONTIGUOUS FOREST COVER AND THE 300-FOOT FOREST EDGE CRITERIA.
2. FOREST EDGE HABITAT GENERALLY INCLUDES FOREST LOCATED WITHIN 300 FEET OF A NON-NATURAL FOREST EDGE. FOREST INTERIOR HABITAT GENERALLY INCLUDES FOREST LOCATED GREATER THAN 300 FEET FROM A NON-NATURAL FOREST EDGE.
3. PROPOSED FOREST DISTURBANCE IS CONCENTRATED ALONG THE EXISTING FOREST EDGE. SEE SHEET C801 FOR PROPOSED FOREST CLEARING AND PROJECT IMPACTS.
4. PROPOSED REFORESTATION AND FOREST ENHANCEMENT AREAS ARE SHOWN ON SHEET C802 AND ARE INTENDED TO IMPROVE AND EXPAND EXISTING FOREST COVER AND HABITAT CONTINUITY.

LEGEND

DESCRIPTION	EXISTING
BUILDING	EX. BUILDING
GRAVEL PAVING	EX. MACADAM
CONCRETE	EX. CONC.
WOODED/BUSH AREA	
DECIDUOUS / EVERGREEN TREES	
CLEAN OUT	
DRAIN INLET	
POWER POLE	
PROPERTY MON.	
SIGN (ONE-POST)	
SIGN (TWO POST)	
STORM DRAIN MH	
TRAVERSE STATION	
WELL	
SPOT ELEVATION	
MAJOR CONTOUR	
MINOR CONTOUR	
CONC. CURB	
SURVEY LIMITS	
FENCE	
GUARDRAIL	
O/H ELECTRIC	
U/G ELECTRIC	
U/G WATER	
U/G SANITARY	
U/G STORM	
FLOODPLAIN	
NON-TIDAL WETLANDS	
25' WETLAND BUFFER	
FOREST BUFFER	
CRITICAL AREA (CA) BOUNDARY	
100 FT BUFFER	
EXPANDED BUFFER	
STREAM	
FLOW ARROW	
SOIL LINE	
LIMIT OF DISTURBANCE	
SLOPES FROM 15% TO 25%	
SLOPES GREATER THAN 25%	
FIDS - FOREST EDGE HABITAT (WITHIN 300 FEET OF NON-NATURAL FOREST EDGE)	
FIDS - FOREST INTERIOR HABITAT (GREATER THAN 300 FEET FROM NON-NATURAL FOREST EDGE)	
TREE REMOVAL	
LIMIT OF DISTURBANCE (L.O.D.) INSIDE THE CRITICAL AREA AND OUTSIDE THE EXPANDED BUFFER	
LIMIT OF DISTURBANCE (L.O.D.) WITHIN THE CRITICAL AREA EXPANDED BUFFER	



BY	
REVISION	
DATE	
NO.	

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Baltimore, MD 21286
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License #27734 Expiration Date: 07/12/26

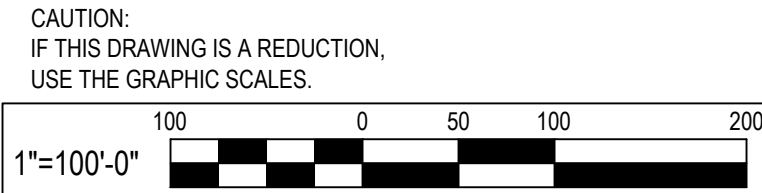
CRITICAL AREA BUFFER MANAGEMENT AND MITIGATION PLAN - FIDS & EXISTING CONDITIONS

PHASE II SITE IMPROVEMENTS BOHEMIA RIVER STATE PARK

THE STATE OF MARYLAND
4030 AUGUSTINE HERMAN HWY
CHESAPEAKE CITY 21915-0000
TAX MAP - 52 GRD - 2012 PARCEL - 0029
LOCAL MAP 21 H & P5
DGS PROJECT NO. 15-04-22-1010

DESIGNED:	JDM
DRAWN:	JDM
CHECKED:	RH
SCALE:	1"=100'
DATE:	09/16/2026
PROJECT:	2020.0479.07
DRAWING:	

C800



MDE #25-SF-0085

CRITICAL AREA FOREST IMPACTS

SELECT	ACTIVITY	ACTION
	PROJECT COMPLETELY OUTSIDE BUFFER , NO BUFFER IMPACTS	ESTABLISHMENT
X	DISTURBANCE TO BUFFER OR VEGETATION REMOVAL IN BUFFER	MITIGATION
	SOME DISTURBANCE IN BUFFER AND SOME OUTSIDE BUFFER	ESTABLISHMENT & MITIGATION

PROJECT SUMMARY
TOTAL LIMIT OF DISTURBANCE (LOD): 305,586 SF (7.02 AC)

OUTSIDE CRITICAL AREA / EXPANDED BUFFER: 82,701 SF (1.90 AC)

TOTAL CRITICAL AREA + EXPANDED BUFFER LOD: 222,885 SF (5.12 AC)
INSIDE CRITICAL AREA TOTAL: 166,494 SF (3.82 AC)
INSIDE EXPANDED BUFFER: 56,391 SF (1.29 AC)

FOREST CANOPY REMOVAL

TOTAL FOREST CLEARING: 49,478 SF (1.14 AC)

OUTSIDE CRITICAL AREA: 0 SF (0.00 AC)

INSIDE CRITICAL AREA
INSIDE EXPANDED BUFFER: 33,716 SF (0.77 AC)
OUTSIDE EXPANDED BUFFER: 15,763 SF (0.36 AC)

NOTE: MITIGATION REQUIREMENTS FOR DISTURBANCE WITHIN THE EXPANDED BUFFER AND ASSOCIATED CANOPY REMOVAL SHALL BE PROVIDED IN ACCORDANCE WITH MARYLAND PARK SERVICE / DNR REVIEW GUIDANCE. SEE STEP 3 FOR MITIGATION CALCULATIONS.

LEGEND

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BUILDING	EX. BUILDING
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FOREST BUFFER	
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EXPANDED BUFFER	
STREAM	
FLOW ARROW	
SOIL LINE	
LIMIT OF DISTURBANCE	

SLOPES FROM 15% TO 25%

SLOPES GREATER THAN 25%

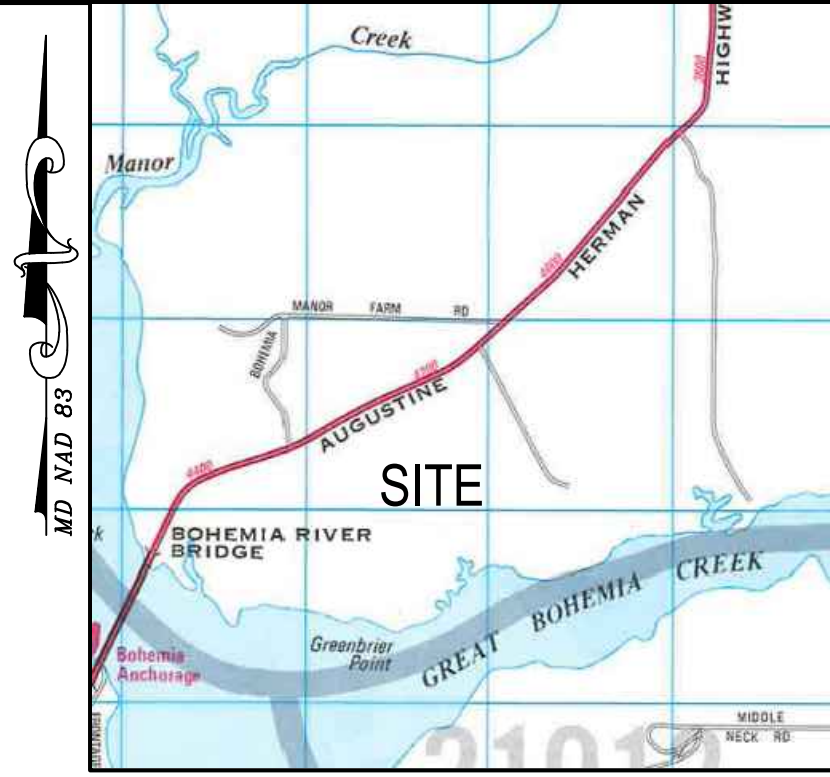
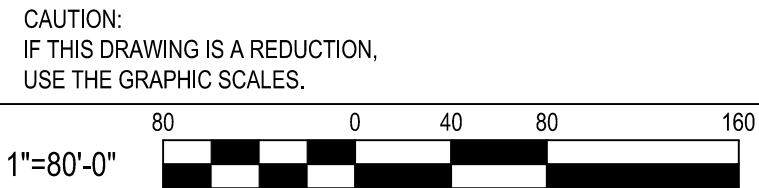
FIDS - FOREST EDGE HABITAT
(WITHIN 300 FEET OF NON-NATURAL FOREST EDGE)

FIDS - FOREST INTERIOR HABITAT
(GREATER THAN 300 FEET FROM NON-NATURAL FOREST EDGE)

TREE REMOVAL

FOREST CLEARING INSIDE THE CRITICAL AREA AND OUTSIDE THE BUFFER

FOREST CLEARING WITHIN THE CRITICAL AREA EXPANDED BUFFER



BY	
REVISION	
DATE	
NO.	

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CRITICAL AREA IMPACTS

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THE STATE OF MARYLAND
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CHESAPEAKE CITY 21915-0000
TAX MAP - 52 GRD - 0012 PARCEL - 0029
LOCAL MAP 27 H&S
DGS PROJECT NO. 15-04224-010

DESIGNED:	JDM
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CHECKED:	RH
SCALE:	1"=80'
DATE:	09/16/2026
PROJECT:	2020.0479.07
DRAWING:	

C801

MDE #25-SF-0085

CRITICAL AREA FOREST IMPACT MITIGATION

SELECT	ACTIVITY	MITIGATION RATIO
	SHORE EROSION CONTROL	1:1
	RIPARIAN WATER ACCESS	2:1
	WATER-DEPENDENT FACILITIES	2:1
	VARIANCE	3:1
	VIOLATION	4:1

- A. BUFFER DISTURBANCE IS ASSOCIATED WITH PUBLIC SHORELINE ACCESS, TRAIL IMPROVEMENTS, LIMITED GRADING, AND RELATED SITE IMPROVEMENTS WITHIN THE EXPANDED CRITICAL AREA BUFFER.
- B. PROPOSED ACTIVITIES INCLUDE RIPARIAN WATER ACCESS IMPROVEMENTS NECESSARY TO PROVIDE SAFE PUBLIC ACCESS AND CONNECTIVITY TO THE SHORELINE.
- C. IMPACTS INCLUDE LIMITED VEGETATION DISTURBANCE, SELECTIVE CANOPY REMOVAL, AND BUFFER MODIFICATION ASSOCIATED WITH THE PROPOSED IMPROVEMENTS.
- D. MITIGATION RATIOS AND CALCULATIONS REFLECT GUIDANCE PROVIDED BY MARYLAND DNR AND APPLICABLE CRITICAL AREA BUFFER MANAGEMENT REQUIREMENTS.

MITIGATION CALCULATION

A. DISTURBANCE WITHIN EXPANDED BUFFER (3:1)

LOD WITHIN EXPANDED BUFFER: 56,391 SF (1.29 AC)
MITIGATION REQUIRED @ 3:1: 169,173 SF (3.88 AC)

B. CANOPY REMOVAL WITHIN EXPANDED BUFFER (1:1)

CANOPY REMOVAL WITHIN EXPANDED BUFFER: 33,715 SF (0.77 AC)
MITIGATION REQUIRED @ 1:1: 33,715 SF (0.77 AC)

C. CANOPY REMOVAL WITHIN CRITICAL AREA, OUTSIDE EXPANDED BUFFER (1:1)

CANOPY REMOVAL INSIDE CRITICAL AREA, OUTSIDE EXPANDED BUFFER: 15,763 SF (0.362 AC)
MITIGATION REQUIRED @ 1:1: 15,763 SF (0.362 AC)

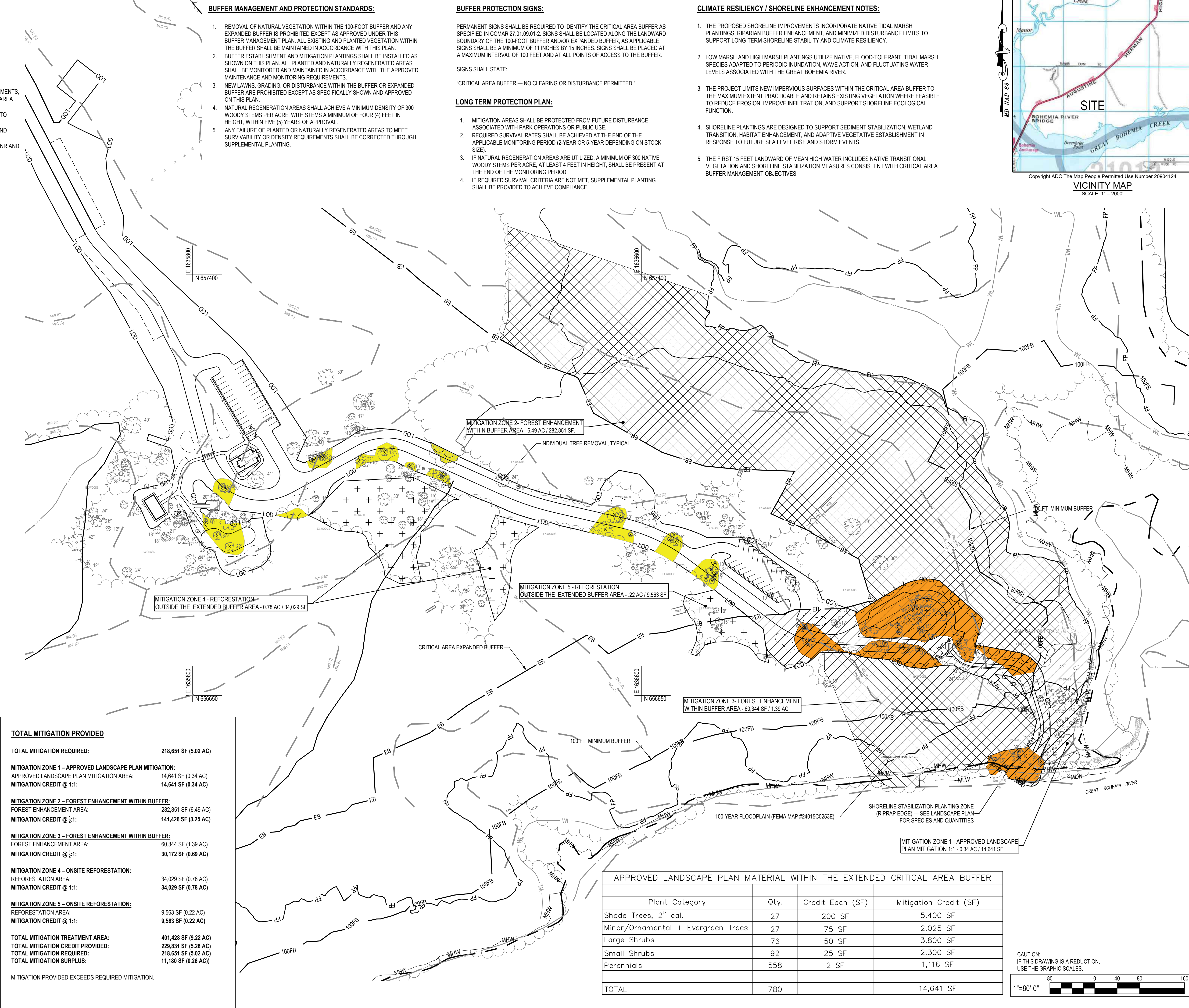
TOTAL MITIGATION REQUIRED:

EXPANDED BUFFER DISTURBANCE MITIGATION: 169,173 SF
EXPANDED BUFFER CANOPY MITIGATION: 33,715 SF
CRITICAL AREA CANOPY MITIGATION: 15,763 SF

TOTAL MITIGATION REQUIRED: 218,651 SF (5.02 AC)

LEGEND

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LIMIT OF DISTURBANCE	
SLOPES FROM 15% TO 25%	
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TREE REMOVAL	
FOREST CLEARING INSIDE THE CRITICAL AREA AND OUTSIDE THE BUFFER	
FOREST CLEARING WITHIN THE CRITICAL AREA EXPANDED BUFFER	
MITIGATION ZONE 1 - APPROVED LANDSCAPE PLAN IN THE BUFFER	
MITIGATION ZONE 2 & 3 - FOREST ENHANCEMENT WITHIN BUFFER	
MITIGATION ZONES 4 & 5 - REFORESTATION OUTSIDE BUFFER	



TOTAL MITIGATION PROVIDED

TOTAL MITIGATION REQUIRED: 218,651 SF (5.02 AC)

MITIGATION ZONE 1 - APPROVED LANDSCAPE PLAN MITIGATION:

APPROVED LANDSCAPE PLAN MITIGATION AREA: 14,641 SF (0.34 AC)
MITIGATION CREDIT @ 1:1: 14,641 SF (0.34 AC)

MITIGATION ZONE 2 - FOREST ENHANCEMENT WITHIN BUFFER:

FOREST ENHANCEMENT AREA: 282,851 SF (6.49 AC)
MITIGATION CREDIT @ 1:1: 141,426 SF (3.25 AC)

MITIGATION ZONE 3 - FOREST ENHANCEMENT WITHIN BUFFER:

FOREST ENHANCEMENT AREA: 60,344 SF (1.39 AC)
MITIGATION CREDIT @ 1:1: 30,172 SF (0.69 AC)

MITIGATION ZONE 4 - ONSITE REFORESTATION:

REFORESTATION AREA: 34,029 SF (0.78 AC)
MITIGATION CREDIT @ 1:1: 34,029 SF (0.78 AC)

MITIGATION ZONE 5 - ONSITE REFORESTATION:

REFORESTATION AREA: 9,563 SF (0.22 AC)
MITIGATION CREDIT @ 1:1: 9,563 SF (0.22 AC)

TOTAL MITIGATION TREATMENT AREA: 401,428 SF (9.22 AC)
TOTAL MITIGATION CREDIT PROVIDED: 229,831 SF (5.28 AC)
TOTAL MITIGATION REQUIRED: 218,651 SF (5.02 AC)
TOTAL MITIGATION SURPLUS: 11,180 SF (0.26 AC)

MITIGATION PROVIDED EXCEEDS REQUIRED MITIGATION.

BUFFER MANAGEMENT AND PROTECTION STANDARDS:

- REMOVAL OF NATURAL VEGETATION WITHIN THE 100-FOOT BUFFER AND ANY EXPANDED BUFFER IS PROHIBITED EXCEPT AS APPROVED UNDER THIS BUFFER MANAGEMENT PLAN. ALL EXISTING AND PLANTED VEGETATION WITHIN THE BUFFER SHALL BE MAINTAINED IN ACCORDANCE WITH THIS PLAN.
- BUFFER ESTABLISHMENT AND MITIGATION PLANTINGS SHALL BE INSTALLED AS SHOWN ON THIS PLAN. ALL PLANTED AND NATURALLY REGENERATED AREAS SHALL BE MONITORED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED MAINTENANCE AND MONITORING REQUIREMENTS.
- NEW LAWNS, GRADING, OR DISTURBANCE WITHIN THE BUFFER OR EXPANDED BUFFER ARE PROHIBITED EXCEPT AS SPECIFICALLY SHOWN AND APPROVED ON THIS PLAN.
- NATURAL REGENERATION AREAS SHALL ACHIEVE A MINIMUM DENSITY OF 300 WOODY STEMS PER ACRE, WITH STEMS A MINIMUM OF FOUR (4) FEET IN HEIGHT, WITHIN FIVE (5) YEARS OF APPROVAL.
- ANY FAILURE OF PLANTED OR NATURALLY REGENERATED AREAS TO MEET SURVIVABILITY OR DENSITY REQUIREMENTS SHALL BE CORRECTED THROUGH SUPPLEMENTAL PLANTING.

BUFFER PROTECTION SIGNS:

PERMANENT SIGNS SHALL BE REQUIRED TO IDENTIFY THE CRITICAL AREA BUFFER AS SPECIFIED IN COMAR 27.01.09.01-2. SIGNS SHALL BE LOCATED ALONG THE LANDWARD BOUNDARY OF THE 100-FOOT BUFFER AND/OR EXPANDED BUFFER, AS APPLICABLE. SIGNS SHALL BE A MINIMUM OF 11 INCHES BY 15 INCHES. SIGNS SHALL BE PLACED AT A MAXIMUM INTERVAL OF 100 FEET AND AT ALL POINTS OF ACCESS TO THE BUFFER.

SIGNS SHALL STATE:

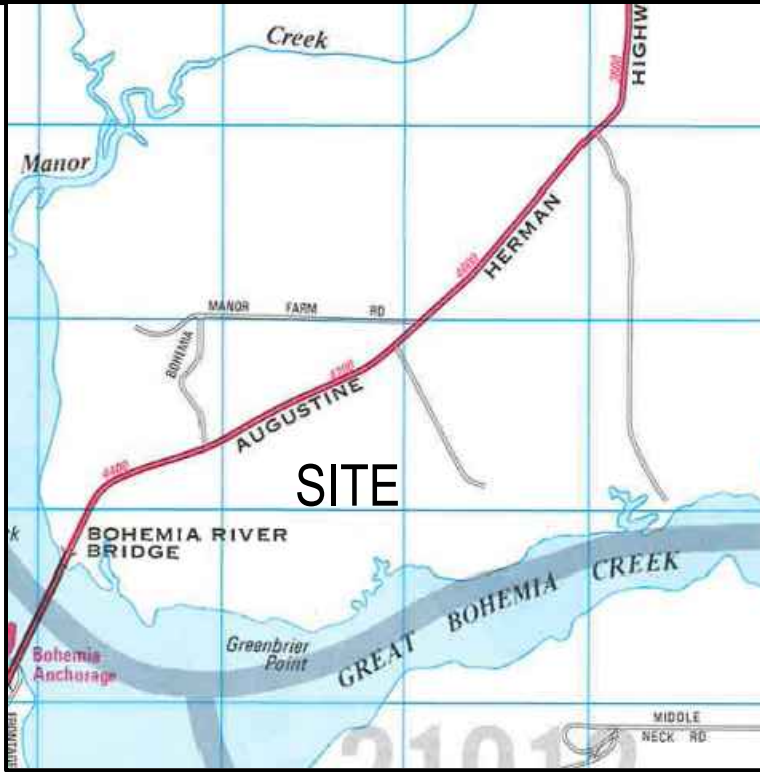
"CRITICAL AREA BUFFER — NO CLEARING OR DISTURBANCE PERMITTED."

LONG TERM PROTECTION PLAN:

- MITIGATION AREAS SHALL BE PROTECTED FROM FUTURE DISTURBANCE ASSOCIATED WITH PARK OPERATIONS OR PUBLIC USE.
- REQUIRED SURVIVAL RATES SHALL BE ACHIEVED AT THE END OF THE APPLICABLE MONITORING PERIOD (2-YEAR OR 5-YEAR DEPENDING ON STOCK SIZE).
- IF NATURAL REGENERATION AREAS ARE UTILIZED, A MINIMUM OF 300 NATIVE WOODY STEMS PER ACRE, AT LEAST 4 FEET IN HEIGHT, SHALL BE PRESENT AT THE END OF THE MONITORING PERIOD.
- IF REQUIRED SURVIVAL CRITERIA ARE NOT MET, SUPPLEMENTAL PLANTING SHALL BE PROVIDED TO ACHIEVE COMPLIANCE.

CLIMATE RESILIENCY / SHORELINE ENHANCEMENT NOTES:

- THE PROPOSED SHORELINE IMPROVEMENTS INCORPORATE NATIVE TIDAL MARSH PLANTINGS, RIPARIAN BUFFER ENHANCEMENT, AND MINIMIZED DISTURBANCE LIMITS TO SUPPORT LONG-TERM SHORELINE STABILITY AND CLIMATE RESILIENCY.
- LOW MARSH AND HIGH MARSH PLANTINGS UTILIZE NATIVE, FLOOD-TOLERANT, TIDAL MARSH SPECIES ADAPTED TO PERIODIC INUNDATION, WAVE ACTION, AND FLUCTUATING WATER LEVELS ASSOCIATED WITH THE GREAT BOHEMIA RIVER.
- THE PROJECT LIMITS NEW IMPERVIOUS SURFACES WITHIN THE CRITICAL AREA BUFFER TO THE MAXIMUM EXTENT PRACTICABLE AND RETAINS EXISTING VEGETATION WHERE FEASIBLE TO REDUCE EROSION, IMPROVE INFILTRATION, AND SUPPORT SHORELINE ECOLOGICAL FUNCTION.
- SHORELINE PLANTINGS ARE DESIGNED TO SUPPORT SEDIMENT STABILIZATION, WETLAND TRANSITION, HABITAT ENHANCEMENT, AND ADAPTIVE VEGETATIVE ESTABLISHMENT IN RESPONSE TO FUTURE SEA LEVEL RISE AND STORM EVENTS.
- THE FIRST 15 FEET LANDWARD OF MEAN HIGH WATER INCLUDES NATIVE TRANSITIONAL VEGETATION AND SHORELINE STABILIZATION MEASURES CONSISTENT WITH CRITICAL AREA BUFFER MANAGEMENT OBJECTIVES.



VICINITY MAP
SCALE: 1" = 2000'

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=80'-0"
80 0 40 80 160

BY	
REVISION	
DATE	
NO.	

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License #27734 Expiration Date: 07/12/26

CRITICAL AREA MITIGATION PLAN & CALCULATIONS

PHASE II SITE IMPROVEMENTS BOHEMIA RIVER STATE PARK

THE STATE OF MARYLAND
4030 AUGUSTINE HERMAN HWY
CHESAPEAKE CITY 21915-0000
TAX MAP - 52 GRD - 2017 PARCEL - 0029
ACUMAP 21 H&B P5
DGS REQUEST NO. 1546241-010

DESIGNED:	JDM
DRAWN:	JDM
CHECKED:	RH
SCALE:	1"=80'
DATE:	09/16/2026
PROJECT:	2020.0479.07
DRAWING:	

C802

A. LANDSCAPE SPECIFICATIONS SHALL BE AS OUTLINED BELOW. ANY ITEM OR PROCEDURE NOT MENTIONED BELOW SHALL BE AS SPECIFIED IN THE LANDSCAPE SPECIFICATION GUIDELINES PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION, LATEST EDITION.

1. THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLANT MATERIALS CALLED FOR ON THE DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.
2. PLANTS SHALL MEET OR EXCEED THE CURRENT "AMERICAN STANDARD FOR NURSERY STOCK" REQUIREMENTS, PARTICULARLY WITH REGARD TO SIZE, FORM, ROOT CONDITION, AND DENSITY OF BRANCH STRUCTURE.
3. PLANT MATERIAL SHALL BE SOUND, VIGOROUS, AND SUITABLE FOR THE PROJECT LOCATION. BARK-ROTT REPROFECTION STOCK SHALL BE HANDLED, STORED, AND PROTECTED IN ACCORDANCE WITH ACCEPTED NURSERY AND FORESTRY PRACTICES TO MAINTAIN ROOT MOISTURE AND PLANT VIABILITY.
4. ALL PLANT MATERIAL SHALL BE SOUND, VIGOROUS, WELL-BRANCHED, AND HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. PLANT MATERIAL SHALL BE FREE OF DISEASE, INSECT PESTS, AND MECHANICAL INJURIES.
5. ALL PLANTS SHALL CONFORM TO THE SIZES, STOCK TYPES, AND OTHER REQUIREMENTS SPECIFIED IN THE PLANT SCHEDULE.
6. CALIPER MEASUREMENTS SHALL BE TAKEN SIX INCHES (6") ABOVE GRADE FOR TREES UNDER FOUR-INCH (4") CALIPER AND TWELVE INCHES (12") ABOVE GRADE FOR TREES FOUR INCHES (4") IN CALIPER AND OVER.
7. MINIMUM BRANCHING HEIGHT FOR SHADE TREES SHALL BE SIX FEET (6'). OTHER SHRUB PLANT MATERIAL, NOT OTHERWISE CLASSIFIED AS LARGE OR SMALL SHRUBS SHALL GENERALLY BE 18"-24" IN HEIGHT OR SPREAD, AS APPROPRIATE, UNLESS OTHERWISE SPECIFIED IN THE PLANT SCHEDULE.
8. MINIMUM SIZE FOR CANOPY TREES, WHERE SPECIFIED BY CALIPER, SHALL BE 1" TO 1-1/2" CALIPER AND 8' TO 10' IN HEIGHT, UNLESS OTHERWISE INDICATED IN THE PLANT SCHEDULE.
9. MINIMUM SIZE FOR UNDERSTORY TREES, WHERE SPECIFIED BY CALIPER, SHALL BE 3/4" CALIPER AND 5' IN HEIGHT, UNLESS OTHERWISE INDICATED IN THE PLANT SCHEDULE.
10. MINIMUM SIZE FOR PLANTING LARGE SHRUBS SHALL BE 5' IN HEIGHT.
11. MINIMUM SIZE FOR PLANTING SMALL SHRUBS SHALL BE 3' IN HEIGHT.
12. MINIMUM SIZE FOR PLANTING EVERGREEN TREES SHALL BE 6' IN HEIGHT.
13. OTHER SHRUB PLANT MATERIAL NOT OTHERWISE CLASSIFIED AS LARGE OR SMALL SHRUBS SHALL GENERALLY BE 18"-24" IN HEIGHT OR SPREAD, AS APPROPRIATE, UNLESS OTHERWISE INDICATED IN THE PLANT SCHEDULE.

1. ALL PROPOSED PLANT MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE FOLLOWING METHODS DURING THE APPROPRIATE PLANTING SEASON.
2. PLANTING SHALL ONLY OCCUR WHEN CONDITIONS ARE SUITABLE. THE GROUND SHALL NOT BE FROZEN.
3. A PROFESSIONAL HORTICULTURIST OR NURSERYMAN SHALL BE CONSULTED AS NECESSARY TO DETERMINE THE PROPER TIME, BASED ON PLANT SPECIES AND WEATHER CONDITIONS, TO MOVE AND INSTALL PLANT MATERIAL.
4. ALL PLANT MATERIAL SHALL BE DUG, BALLED AND BURLAPPED (B&B), CONTAINER GROWN, OR BARE ROOT AS SPECIFIED ON THE PLANT SCHEDULE AND IN ACCORDANCE WITH APPLICABLE NURSERY STOCK STANDARDS.

1. THE LANDSCAPE CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, HEDGE TRENCHES, AND SHRUB BEDS AS REQUIRED.
2. ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE WITH VERTICAL SIDES.
3. TREE PITS SHALL BE DEEP ENOUGH TO ALLOW APPROXIMATELY 1/8 OF THE ROOT BALL TO REMAIN ABOVE EXISTING GRADE.
4. PLANTS SHALL REST ON UNDISTURBED EXISTING SOIL OR WELL-COMPACTED BACKFILL.
5. TREE PITS SHALL EXTEND A MINIMUM OF NINE INCHES (9") BEYOND THE ROOT BALL ON ALL SIDES.

1. EACH TREE AND SHRUB SHALL BE PRUNED IN AN APPROPRIATE MANNER FOR ITS PARTICULAR REQUIREMENTS AND IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE.
2. BROKEN OR BRUISED BRANCHES SHALL BE REMOVED WITH CLEAN CUTS MADE TO THE BRANCH COLLAR. NO FLUSH CUT SHALL BE PERMITTED.
3. ALL CUTS SHALL BE MADE WITH SHARP TOOLS AND EDGES SHALL BE TRIMMED SMOOTH. TREE WOUND DRESSINGS SHALL NOT BE APPLIED.
4. AFTER CULTIVATION, PLANT MATERIAL SHALL BE MULCHED WITH A 2"-3" LAYER OF APPROVED ORGANIC MULCH OVER THE ENTIRE PLANTING BED OR SAUCER.

ALL SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND THE PROJECT PLANS.

- A. ALL PLANTING AREAS AND SEEDED AREAS SHALL BE PERIODICALLY INSPECTED.
- B. REMOVE ALL LITTER, DEBRIS, DEAD OR DISEASED PLANT MATERIAL, AND WEEDS.
- C. MAINTAIN A MINIMUM TWO-INCH (2") DEPTH OF ORGANIC HARDWOOD MULCH OR APPROVED EQUAL IN PLANTING BEDS.
- D. FOREST IMPOVEDMENT AREAS SHALL BE PERIODICALLY INSPECTED FOR REESTABLISHMENT OR NEW GROWTH OF INVASIVE SPECIES. INVASIVE VEGETATION SHALL BE TREATED IN ACCORDANCE WITH THE INVASIVE SPECIES TREATMENT NOTES.

A. REMOVAL OF DEAD, DISEASED, INSECT-INFESTED, OR WEAK WOOD SHALL TAKE PLACE DURING THE APPROPRIATE SEASON.

B. EXCESSIVE SHOOTS AND SUCKERS SHALL BE REMOVED.

C. PRUNING SHALL BE PERFORMED USING ACCEPTED ARBORICULTURAL PRACTICES AND SHALL NOT DAMAGE HEALTHY NATIVE VEGETATION DESIGNATED TO REMAIN.

A. THE CONTROL OF INSECTS AND DISEASE ASSOCIATED WITH ALL PLANTING AREAS SHALL BE A MAINTENANCE PRIORITY.

B. ALL PLANTINGS, INCLUDING EXISTING TREES WITHIN FOREST IMPROVEMENT AREAS, SHALL BE PERIODICALLY INSPECTED FOR INSECT OR DISEASE INFESTATION.

C. METHODS UTILIZED TO CONTROL INSECTS OR DISEASE MAY RANGE FROM TREATMENT AND PRUNING TO PLANT REMOVAL. WHATEVER METHOD IS UTILIZED, SAFETY AND CONTROL SHALL BE OF PRIMARY CONCERN.

D. TRAINED AND APPROPRIATELY CERTIFIED PERSONNEL SHALL PERFORM PESTICIDE APPLICATIONS.

- A. CONTINUE MONITORING AND INVASIVE SPECIES TREATMENT THROUGHOUT THE REQUIRED MONITORING PERIOD.
- B. MONITOR TREE-OF-HEAVEN (AILANTHUS ALTISSIMA) TREATMENT AREAS FOR ROOT SUCKERS, NEW SHOOTS, SEEDLINGS, AND SURVIVING STEMS. RETREAT AS REQUIRED IN ACCORDANCE WITH THE INVASIVE SPECIES TREATMENT NOTES.
- C. SUPPLEMENTAL NATIVE PLANTINGS SHALL BE INSPECTED FOR SURVIVABILITY AND GENERAL CONDITION.
- D. DEAD, DISEASED, OR UNSATISFACTORY PLANT MATERIAL SHALL BE REPLACED AS REQUIRED TO MAINTAIN THE APPROVED MITIGATION PLANTING REQUIREMENTS.
- E. INVASIVE SPECIES SHALL NOT BE PERMITTED TO REESTABLISH TO AN EXTENT THAT INTERFERES WITH SUCCESSFUL ESTABLISHMENT OF THE PROPOSED NATIVE PLANT COMMUNITY.

1. THIS PLAN IS FOR LANDSCAPE AND CRITICAL AREA MITIGATION PURPOSES ONLY.
2. THE LANDSCAPE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS, APPLICABLE PROJECT SPECIFICATIONS, AND REQUIREMENTS OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES AND OTHER APPLICABLE REVIEWING AGENCIES.
3. THE CONTRACTOR SHALL FURNISH ALL PLANTS, LABOR, MATERIALS, EQUIPMENT, AND INCIDENTAL ITEMS REQUIRED TO COMPLETE THE WORK INDICATED ON THE PLANS AND PLANT SCHEDULES.
4. ALL PLANTS SHALL BE PROPERLY IDENTIFIED BY WEATHERPROOF LABELS SECURELY ATTACHED BEFORE DELIVERY TO THE PROJECT SITE. LABELS SHALL IDENTIFY PLANTS BY NAME, SPECIES, AND SIZE AND SHALL REMAIN UNTIL FINAL INSPECTION UNLESS OTHERWISE DIRECTED.
5. ANY MATERIALS OR WORK THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS MAY BE REJECTED. REJECTED MATERIAL SHALL BE REMOVED FROM THE SITE OR BY THE CONTRACTOR.
6. PLANT QUANTITIES SHOWN IN THE PLANT LIST ARE PROVIDED FOR CONVENIENCE, PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL VERIFY THAT QUANTITIES SHOWN ON THE PLAN ARE CONSISTENT WITH THE PLANT SCHEDULE. SHOULD DISCREPANCIES OCCUR, PLAN INFORMATION SHALL TAKE PRIORITY AND THE DESIGNER SHALL BE NOTIFIED.
7. SUBSTITUTIONS IN PLANT SPECIES, STOCK TYPE, OR SIZE SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE DESIGNER AND, WHERE REQUIRED, THE REVIEWING AGENCY.
8. PLANTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS OR AS DESIGNATED IN THE FIELD BY THE DESIGNER OR THEIR REPRESENTATIVE.
9. PLANTING AREAS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION. ADJUSTMENTS MAY BE MADE TO AVOID EXISTING NATIVE TREES, DESIRABLE NATIVE VEGETATION, UTILITIES, TRAILS, ENVIRONMENTALLY SENSITIVE RESOURCES, OR OTHER FIELD CONDITIONS, SUBJECT TO APPROVAL.
10. THE CONTRACTOR SHALL CONTACT MISS UTILITY PRIOR TO EXCAVATION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE.
11. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION. SHOULD CONFLICTS OCCUR BETWEEN PROPOSED PLANTINGS AND ACTUAL UTILITY LOCATIONS, THE OWNER AND DESIGNER SHALL BE NOTIFIED PRIOR TO EXCAVATION.
12. IF UTILITY LINES ARE ENCOUNTERED DURING EXCAVATION OF TREE PITS, ALTERNATE LOCATIONS SHALL BE SELECTED IN COORDINATION WITH THE DESIGNER OR THEIR REPRESENTATIVE.
13. ALL EQUIPMENT AND TOOLS SHALL BE PLACED AND OPERATED SO AS NOT TO UNNECESSARILY INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC OR DAMAGE EXISTING VEGETATION TO REMAIN.
14. EXISTING WALKING TRAILS SHALL BE PRESERVED UNLESS OTHERWISE INDICATED ON THE PLANS.
15. EXISTING HEALTHY NATIVE TREES AND VEGETATION DESIGNATED TO REMAIN SHALL BE PROTECTED DURING INVASIVE SPECIES TREATMENT AND PLANTING OPERATIONS.
16. PLANTING SHALL ONLY OCCUR WHEN CONDITIONS ARE SUITABLE. PLANTING SHALL NOT OCCUR WHEN THE GROUND IS FROZEN.
17. DURING PLANTING AND INVASIVE SPECIES MANAGEMENT OPERATIONS, EXCESS AND WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS OTHERWISE DIRECTED BY MARYLAND DNR.
18. ALL VEHICLES AND EQUIPMENT USED FOR INVASIVE SPECIES MANAGEMENT SHALL BE CLEANED AS NECESSARY TO PREVENT THE SPREAD OF INVASIVE SEED OR VEGETATIVE MATERIAL.
19. CARE SHALL BE TAKEN DURING ALL OPERATIONS TO MINIMIZE DISTURBANCE TO EXISTING NATIVE FOREST, WETLANDS, STREAMS, THE CRITICAL AREA BUFFER, AND OTHER ENVIRONMENTALLY SENSITIVE RESOURCES.
20. FOLLOW-UP PLANTING SHALL OCCUR FOLLOWING SUCCESSFUL INITIAL INVASIVE SPECIES TREATMENT. WHERE SIGNIFICANT ADDITIONAL INVASIVE TREATMENT IS REQUIRED, PLANTING SHALL BE DELAYED UNTIL ACCEPTABLE CONTROL HAS BEEN ACHIEVED.
21. WITHIN FOREST IMPROVEMENT AREAS, CANOPY TREES SHALL GENERALLY BE INSTALLED FIRST, FOLLOWED BY UNDERSTORY TREES, SHRUBS, AND OTHER SPECIFIED NATIVE PLANT MATERIAL.
22. SEE INVASIVE SPECIES TREATMENT NOTES AND PROJECT SEQUENCE/SCHEDULE FOR REQUIREMENTS ASSOCIATED WITH TREE-OF-HEAVEN AND OTHER INVASIVE SPECIES MANAGEMENT.

TIME OF YEAR	ACTION	NOTES
SPRING 2026 - PRIOR TO ANY WORK	SITE WALK	PRIOR TO ANY CLEARING, GRUBBING, OR TREATMENT, THE MARYLAND PARK SERVICE / DNR REPRESENTATIVE, CONTRACTOR, GFT, AND ANY OTHER NECESSARY REPRESENTATIVES SHALL WALK THE PROJECT AREA TO IDENTIFY NATIVE TREES AND VEGETATION TO BE SAVED AND INVASIVE SPECIES TO BE TREATED.
PRIOR TO EACH HERBICIDE APPLICATION	SITE WALK	PRIOR TO EACH HERBICIDE APPLICATION, A SITE WALK SHALL OCCUR WITH MARYLAND PARK SERVICE / DNR AND THE CONTRACTOR TO VERIFY TARGET INVASIVE VEGETATION AND PROTECT DESIRABLE NATIVE VEGETATION.
SPRING 2027	TARGET INVASIVE TREES	REMOVE AND TREAT TARGET INVASIVE TREES WITHIN THE FOREST IMPROVEMENT AREAS USING THE TREATMENT METHODS SPECIFIED ON THE PLANS. PROTECT EXISTING HEALTHY NATIVE TREES AND VEGETATION TO REMAIN.
SPRING 2027	TARGET INVASIVE SHRUBS	REMOVE OR TREAT TARGET INVASIVE SHRUBS WITHIN THE FOREST IMPROVEMENT AREAS USING APPROVED MECHANICAL AND/OR HERBICIDE TREATMENT METHODS. MINIMIZE DISTURBANCE TO EXISTING NATIVE VEGETATION.
SPRING THROUGH FALL 2027	INVASIVE SPECIES MANAGEMENT	CONTINUE TARGETED INVASIVE SPECIES CONTROL WITHIN THE FOREST IMPROVEMENT AREAS FOLLOWING INITIAL TREATMENT. TREAT REGROWTH AND NEW INVASIVE VEGETATION AS REQUIRED PRIOR TO SUPPLEMENTAL PLANTING.
LATE SPRING 2027	TARGET INVASIVE HERBS	HAND PULL, TARGET INVASIVE HERBACEOUS VEGETATION WHERE FEASIBLE PRIOR TO SEED SET. WHERE LARGE INFESTATIONS REQUIRE HERBICIDE TREATMENT, MINIMIZE HERBICIDE USE AND TARGET APPLICATION TO INVASIVE SPECIES.
LATE SUMMER/FALL 2027	TREE OF HEAVEN	TREAT TREE-OF-HEAVEN (ALANTHUS ALTISSIMA) USING THE TREATMENT METHODS SPECIFIED ON THIS SHEET. MONITOR FOR ROOT SUCKERS, NEW SHOOTS, SEEDLINGS, AND SURVIVING STEMS AND RETREAT AS REQUIRED.
FALL 2027	TARGET INVASIVE VINES	CUT AND TREAT TARGET INVASIVE VINES AS APPROPRIATE. REMOVE OR CONTROL VINES WITHOUT DAMAGING EXISTING NATIVE TREES AND VEGETATION TO REMAIN.
LATE FALL 2027	POST-TREATMENT INSPECTION	INSPECT FOREST IMPROVEMENT AREAS TO VERIFY EFFECTIVENESS OF INITIAL INVASIVE SPECIES TREATMENT. RETREAT SURVIVING STEMS, ROOT SUCKERS, SEEDLINGS, VINES, AND OTHER REGROWTH AS REQUIRED.
FALL 2027	PLANTING	PLANTING SHALL OCCUR FOLLOWING SUCCESSFUL INITIAL INVASIVE SPECIES TREATMENT AND POST-TREATMENT INSPECTION. PLANTING FOLLOWING HERBICIDE APPLICATION SHALL COMPLY WITH THE APPLICABLE HERBICIDE PRODUCT LABEL. PLANTING MAY OCCUR WHERE INVASIVE SPECIES HAVE BEEN SUCCESSFULLY CONTROLLED. WHERE SIGNIFICANT ADDITIONAL TREATMENT IS REQUIRED, PLANTING SHALL BE DELAYED. INSTALL CANOPY TREES FIRST, FOLLOWED BY UNDERSTORY TREES, SHRUBS, AND OTHER SPECIFIED NATIVE PLANT MATERIAL.
SPRING AND FALL - MONITORING PERIOD	TARGET NEW INVASIVE SHOOTS AND MONITORING	CONTINUE MONITORING AND INVASIVE SPECIES TREATMENT THROUGHOUT THE REQUIRED MONITORING PERIOD. TREAT NEW SHOOTS, ROOT SUCKERS, SEEDLINGS, VINE REGROWTH, AND OTHER INVASIVE VEGETATION AS REQUIRED.
SPRING AND FALL - MONITORING PERIOD	MAINTENANCE	PERFORM REQUIRED LANDSCAPE AND FOREST IMPROVEMENT MAINTENANCE, INCLUDING REMOVAL OF LITTER, DEBRIS, DEAD OR DISEASED PLANT MATERIAL, INVASIVE SPECIES CONTROL, AND INSPECTION OF SUPPLEMENTAL NATIVE PLANTINGS. REPLACE UNSATISFACTORY PLANT MATERIAL AS REQUIRED TO MAINTAIN THE APPROVED MITIGATION REQUIREMENTS.
FALL 2027 / APPROPRIATE SEEDING SEASON	REFORESTATION AREA SITE PREPARATION	PREPARE FORMER AGRICULTURAL FIELDS AND ESTABLISH THE SPECIFIED SEED MIX AND COVER CROP, WHERE REQUIRED, IN ACCORDANCE WITH THE REFORESTATION SITE PREPARATION NOTES AND SEED MIX SCHEDULE. COORDINATE SEEDING AND REFORESTATION PLANTING WITH THE APPROVED REFORESTATION PLAN AND PLANT SCHEDULE.

1. YEAR 1 - SEEDBED PREPARATION AND PLANTING: WHERE PRACTICABLE, INITIATE MEADOW CONVERSION FOLLOWING A SOYBEAN ROTATION OR OTHER CONDITION WITH MINIMAL CROP RESIDUE. FOLLOWING HARVEST, ESTABLISH A COVER CROP WITH COOL-SEASON GRASSES AND CLOVER PRIOR TO INSTALLATION OF THE NATIVE MEADOW SEED MIX.
2. YEAR 2 - NATIVE MEADOW SEEDING: IN THE FIRST YEAR, SEED THE MEADOW SEED MIX USING EQUIPMENT SUITABLE FOR NATIVE SEED. PROVIDE THE FULL SPECIFIED SEEDING RATE TO PROMOTE DENSE ESTABLISHMENT AND REDUCE LONG-TERM WEED PRESSURE.
3. YEAR 1 - DORMANT / FROST SEEDING: WHERE NATIVE MEADOW SEEDING IS PERFORMED DURING THE APPROPRIATE WINTER DORMANT PERIOD, ADDITIONAL VEGETATION REMOVAL MAY NOT BE REQUIRED PRIOR TO SEEDING. SUBJECT TO FIELD CONDITIONS.
4. YEAR 2 - ESTABLISHMENT MANAGEMENT: MOW COVER CROP AND ANNUAL WEEDS WHEN VEGETATION REACHES APPROXIMATELY 12 TO 18 INCHES IN HEIGHT. MOW TO APPROXIMATELY 4 TO 6 INCHES IN HEIGHT TO SUPPRESS COMPETING VEGETATION WHILE ALLOWING ESTABLISHED NATIVE MEADOW SPECIES TO DEVELOP.
5. YEARS 3 - ESTABLISHMENT MANAGEMENT: CONTROL ANNUAL WEEDS THROUGH WHOLE-FIELD MOWING, STRING TRIMMING, OR SELECTIVE SPOT TREATMENTS. MOWING IS REQUIRED TO REDUCE COVER AND PREVENT UNDESIRABLE SPECIES FROM SETTING SEED.
6. YEARS 4 THROUGH 6 - LONG-TERM MEADOW MANAGEMENT: PRESCRIBED BURNING MAY BEGIN FOLLOWING SUCCESSFUL MEADOW ESTABLISHMENT. DIVIDE THE MEADOW INTO MANAGEMENT UNITS AND DISTURB NO MORE THAN APPROXIMATELY ONE-THIRD OF THE TOTAL MEADOW AREA DURING A SINGLE MANAGEMENT EVENT.
7. YEAR 7 AND BEYOND - LONG-TERM MEADOW MANAGEMENT: UTILIZE PRESCRIBED BURNING AT APPROXIMATELY 4- TO 7-YEAR INTERVALS TO LIMIT WOODY ENCROACHMENT AND MAINTAIN MEADOW CONDITIONS. DISTURB NO MORE THAN ONE-THIRD OF THE SITE DURING A SINGLE MANAGEMENT EVENT AND ALTERNATE SPRING AND FALL TREATMENTS WHERE APPROPRIATE.
8. SUBMIT TO PARK APPROVAL: PRESCRIBED BURNINGS SHALL BE COORDINATED WITH APPROPRIATE PARK, FORESTRY, WILDLIFE, AND FIRE MANAGEMENT PERSONNEL.
9. MONITOR THE MEADOW FOR INVASIVE AND UNDESIRABLE WOODY VEGETATION THROUGHOUT THE ESTABLISHMENT AND MAINTENANCE PERIOD. PROVIDE SELECTIVE MOWING, CUTTING, OR APPROVED HERBICIDE TREATMENT AS REQUIRED TO PREVENT WOODY ENCROACHMENT.
10. HERBICIDE APPLICATIONS SHALL BE PERFORMED BY QUALIFIED / CERTIFIED APPLICATORS IN ACCORDANCE WITH THE INVASIVE SPECIES MANAGEMENT NOTES, PRODUCT LABEL REQUIREMENTS, AND APPLICABLE REGULATIONS.
11. MAINTAINANCE ACTIVITIES SHALL BE PHASED TO MAINTAIN UNDISTURBED MEADOW HABITAT. AVOID SIMULTANEOUS MOWING, BURNING, OR OTHER DISTURBANCE OF THE ENTIRE MEADOW AREA WHERE PRACTICABLE.
12. REFER TO THE REFORESTATION PLANTING PLAN AND PLANT SCHEDULE FOR THE INSTALLATION OF NATIVE TREE AND SHRUB MATERIAL WITHIN OR ADJACENT TO THE ESTABLISHED MEADOW MATRIX.

TREATMENT	TIMING	TREATMENT MATERIAL	RATE	COMMENTS
FOLIAR APPLICATION	JULY 1 TO ONSET OF FALL COLOR	GLYPHOSATE AND/OR TRICLOPYR, AS APPROPRIATE FOR THE TARGET SPECIES AND APPLICATION METHOD	AS DIRECTED BY MANUFACTURER	APPLY HERBICIDE TO TARGET FOLIAGE IN ACCORDANCE WITH THE PRODUCT LABEL. PROVIDE A SURFACTANT WHERE REQUIRED BY THE HERBICIDE PRODUCT LABEL. TARGET APPLICATION TO INVASIVE VEGETATION AND AVOID CONTACT WITH DESIRABLE NATIVE VEGETATION.
BASAL BARK	JULY 1 TO ONSET OF FALL COLOR	TRICLOPYR ESTER FORMULATED FOR BASAL BARK APPLICATION	AS DIRECTED BY MANUFACTURER	APPLY TO THE ENTIRE CIRCUMFERENCE OF THE LOWER 12 TO 18 INCHES OF THE STEM IN ACCORDANCE WITH THE PRODUCT LABEL. THIS METHOD MAY BE USED FOR APPROPRIATELY SIZED STEMS AND AS FOLLOW-UP TREATMENT FOR SURVIVING STEMS. FOR LARGER STEMS, USE AN APPROPRIATE STEM-INJECTION OR HACK-AND-SQUIRT METHOD.
HACK AND SQUIRT	JULY 1 TO ONSET OF FALL COLOR	GLYPHOSATE OR TRICLOPYR FORMULATED FOR CUT-STEM / INJECTION APPLICATION	AS DIRECTED BY MANUFACTURER	MAKE SPACED CUTS THROUGH THE BARK INTO THE SAPWOOD AND IMMEDIATELY APPLY HERBICIDE TO EACH CUT IN ACCORDANCE WITH THE PRODUCT LABEL. DO NOT COMPLETELY GIRDLING THE STEM. THIS METHOD IS GENERALLY INTENDED FOR LARGER INDIVIDUAL STEMS WHERE FOLIAR OR BASAL BARK TREATMENT IS NOT APPROPRIATE.
CUT / REMOVE STUMP AND ROOTS	FOLLOWING HERBICIDE TREATMENT / AS DIRECTED	N/A	N/A	DO NOT CUT TREE-OF-HEAVEN PRIOR TO APPROPRIATE HERBICIDE TREATMENT WHERE CUTTING COULD STIMULATE ROOT SUCKERING. WHERE REMOVAL IS DIRECTED, REMOVE THE STUMP AND ROOT SYSTEM ONLY TO THE EXTENT PRACTICABLE AND WHERE REMOVAL WILL NOT RESULT IN UNACCEPTABLE DISTURBANCE TO EXISTING NATIVE VEGETATION OR SENSITIVE RESOURCES. MONITOR FOR ROOT SUCKERS, NEW SHOOTS, SEEDLINGS, AND SURVIVING STEMS AND PROVIDE FOLLOW-UP TREATMENT AS REQUIRED.

TREE-OF-HEAVEN
SMALL TREE-OF-HEAVEN (AILANTHUS ALTISSIMA) SAPLINGS, ROOT SUCKERS, AND SEEDLINGS MAY OCCUR THROUGHOUT THE FOREST IMPROVEMENT AREAS. PRIOR TO TREATMENT, THE CONTRACTOR SHALL FIELD INSPECT THE ENTIRE TREATMENT AREA AND IDENTIFY TREE-OF-HEAVEN FOR TREATMENT. MONITOR TREATED AREAS FOR ROOT SUCKERS, NEW SHOOTS, SEEDLINGS, AND SURVIVING STEMS AND RETREAT AS REQUIRED.

INVASIVE VINES
ORIENTAL BITTERSWEET, PORCELAIN BERRY, ENGLISH IVY, JAPANESE HONEYSUCKLE, WINTERCREEPER, WINEBERRY, WISTERIA, AND OTHER TARGET INVASIVE VINES SHALL BE CONTROLLED USING APPROPRIATE PULL-AND-DIG, CUT-AND-RETREAT, CUT-STEM HERBICIDE, AND/OR OTHER APPROVED TREATMENT METHODS BASED ON SPECIES, STEM SIZE, DENSITY, AND EXISTING SITE CONDITIONS.

WHERE INVASIVE VINES OCCUR WITHIN FORESTED AREAS, TREATMENT SHALL BE SELECTIVE AND SHALL MINIMIZE DISTURBANCE TO EXISTING HEALTHY NATIVE TREES, SHRUBS, HERBACEOUS VEGETATION, AND DESIRABLE NATIVE REGENERATION. HERBICIDE APPLICATIONS SHALL BE TARGETED TO INVASIVE VEGETATION AND SHALL AVOID CONTACT WITH DESIRABLE NATIVE VEGETATION.

INVASIVE VINES CLIMBING EXISTING TREES SHALL BE CUT AND TREATED AS APPROPRIATE WITHOUT DAMAGING THE HOST TREE. DO NOT PULL VINES FROM THE CANOPY WHERE REMOVAL COULD DAMAGE TREE LIMBS, BARK, OR OTHER DESIRABLE VEGETATION. EXISTING HEALTHY NATIVE TREES SHALL REMAIN AND BE PROTECTED.

INVASIVE SHRUBS
MULTIFLORA ROSE, BUSH HONEYSUCKLE, BURNING BUSH, AND OTHER TARGET INVASIVE SHRUBS SHALL BE MECHANICALLY REMOVED OR TREATED USING APPROVED METHODS APPROPRIATE TO THE SPECIES AND SITE CONDITIONS. FOLLOWING INITIAL TREATMENT, MONITOR FOR RESPROUTING AND TREAT NEW SHOOTS AS REQUIRED TO PREVENT REESTABLISHMENT.

INVASIVE TREES
BRADFORD PEAR, NORWAY MAPLE, AND OTHER TARGET INVASIVE TREES SHALL BE TREATED USING METHODS APPROPRIATE TO TREE SIZE AND SITE CONDITIONS. SMALL SAPLINGS MAY BE REMOVED BY HAND, PULL-AND-DIG METHODS, OR OTHER APPROVED MECHANICAL METHODS WHERE ROOT SYSTEMS CAN BE REMOVED WITHOUT UNACCEPTABLE DISTURBANCE TO DESIRABLE VEGETATION.

LARGER INVASIVE TREES MAY BE TREATED USING CUT-STUMP, HACK-AND-SQUIRT, BASAL BARK, OR OTHER APPROVED TREATMENT METHODS AS APPROPRIATE FOR THE TARGET SPECIES. MONITOR TREATED AREAS FOR RESPROUTING, ROOT SUCKERS, AND SEEDLINGS AND PROVIDE FOLLOW-UP TREATMENT AS REQUIRED.

INVASIVE HERBACEOUS VEGETATION
TARGET INVASIVE HERBACEOUS VEGETATION, INCLUDING GARLIC MUSTARD, SHALL BE HAND-PULLED OR OTHERWISE TREATED PRIOR TO SEED SET WHERE PRACTICABLE. WHERE INFESTATIONS REQUIRE HERBICIDE TREATMENT APPLICATION SHALL BE SELECTIVE AND TARGETED TO MINIMIZE IMPACTS TO EXISTING DESIRABLE NATIVE VEGETATION.

1. PRIOR TO INITIAL TREATMENT AND HERBICIDE APPLICATION, THE CONTRACTOR SHALL COORDINATE WITH THE MARYLAND PARK SERVICE / DNR REPRESENTATIVE TO FIELD VERIFY TARGET INVASIVE VEGETATION AND IDENTIFY EXISTING NATIVE VEGETATION TO REMAIN.
2. HERBICIDE APPLICATION SHALL BE PERFORMED BY APPROPRIATELY LICENSED OR CERTIFIED PESTICIDE APPLICATORS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED HERBICIDE PRODUCTS, ACTIVE INGREDIENTS, APPLICATION METHODS, AND APPLICATION RATES FOR REVIEW BY THE MARYLAND PARK SERVICE / DNR PRIOR TO APPLICATION. HERBICIDE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE PRODUCT LABEL, INCLUDING APPLICATION RATE, TIMING, PERSONAL PROTECTIVE EQUIPMENT, ENVIRONMENTAL RESTRICTIONS, AND OTHER LABEL REQUIREMENTS.
4. HERBICIDE APPLICATION SHALL BE TARGETED TO INVASIVE VEGETATION. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING HEALTHY NATIVE TREES, SHRUBS, HERBACEOUS VEGETATION, DESIRABLE NATIVE REGENERATION, WETLANDS, STREAMS, AND OTHER ENVIRONMENTALLY SENSITIVE RESOURCES.
5. FOLLOWING INITIAL TREATMENT, MONITOR TREATMENT AREAS FOR SURVIVING INVASIVE VEGETATION, RESPROUTING, ROOT SUCKERS, SEEDLINGS, AND NEW INFESTATIONS. PROVIDE FOLLOW-UP TREATMENT AS REQUIRED DURING THE ESTABLISHMENT AND MONITORING PERIOD.
6. VEHICLES, EQUIPMENT, AND TOOLS USED FOR INVASIVE SPECIES MANAGEMENT SHALL BE CLEANED AS NECESSARY PRIOR TO MOVING BETWEEN TREATMENT AREAS TO MINIMIZE THE SPREAD OF INVASIVE SEEDS, ROOTS, AND OTHER VEGETATIVE MATERIAL.
7. HERBICIDE APPLICATIONS AND DEBRIS REQUIRING REMOVAL SHALL BE COLLECTED, HANDLED, AND DISPOSED OF IN A MANNER THAT PREVENTS REESTABLISHMENT OR SPREAD. DISPOSAL SHALL BE OFF-SITE OR AS OTHERWISE DIRECTED BY THE MARYLAND PARK SERVICE / DNR.
8. PROTECT EXISTING HEALTHY NATIVE VEGETATION AND DESIRABLE NATIVE REGENERATION THROUGHOUT INVASIVE SPECIES TREATMENT OPERATIONS. DO NOT CLEAR OR GRUB DESIRABLE NATIVE VEGETATION TO FACILITATE INVASIVE SPECIES TREATMENT.

3. EXISTING WALKING TRAILS WITHIN THE MITIGATION AREAS SHALL BE PRESERVED AND SHALL NOT BE PLANTED UNLESS OTHERWISE SHOWN ON THE PLANS.
2. CARE SHALL BE TAKEN DURING ALL PLANTING AND FOREST IMPROVEMENT OPERATIONS TO MINIMIZE DISTURBANCE TO EXISTING NATIVE TREES, SHRUBS, AND OTHER DESIRABLE VEGETATION TO REMAIN.
3. CARE SHALL BE TAKEN TO AVOID DISTURBANCE TO EXISTING WILDLIFE AND WILDLIFE HABITAT DURING PLANTING AND FOREST IMPROVEMENT OPERATIONS.
4. CARE SHALL BE TAKEN TO PROTECT EXISTING SITE FEATURES, TRAILS, SIGNS, FENCES, UTILITIES, AND OTHER PARK IMPROVEMENTS TO REMAIN.
5. EXISTING HEALTHY NATIVE TREES AND VEGETATION WITHIN THE FOREST IMPROVEMENT AREAS SHALL BE PRESERVED AND PROTECTED DURING INVASIVE SPECIES TREATMENT AND SUPPLEMENTAL PLANTING OPERATIONS.
6. PLANT LOCATIONS SHOWN WITHIN FOREST IMPROVEMENT AREAS ARE INTENDED TO SUPPLEMENT EXISTING NATIVE FOREST VEGETATION. FINAL PLANT LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID EXISTING TREES, ROOT SYSTEMS, DESIRABLE NATIVE VEGETATION, TRAILS, UTILITIES, AND OTHER SITE CONSTRAINTS.
7. PLANTING SHALL ONLY OCCUR WHEN CONDITIONS ARE SUITABLE. THE GROUND SHALL NOT BE FROZEN.
8. PLANTING WITHIN FOREST IMPROVEMENT AREAS SHALL OCCUR FOLLOWING SUCCESSFUL INITIAL INVASIVE SPECIES TREATMENT. WHERE SIGNIFICANT ADDITIONAL INVASIVE TREATMENT IS REQUIRED, PLANTING SHALL BE DELAYED UNTIL ACCEPTABLE CONTROL HAS BEEN ACHIEVED.
9. PLANTING FOLLOWING HERBICIDE APPLICATION SHALL COMPLY WITH THE APPLICABLE HERBICIDE PRODUCT LABEL AND SHALL OCCUR ONLY AFTER ACCEPTABLE CONTROL OF TARGET INVASIVE VEGETATION HAS BEEN ACHIEVED.
10. WITHIN FOREST IMPROVEMENT AREAS, CANOPY TREES SHALL GENERALLY BE INSTALLED FIRST, FOLLOWED BY UNDERSTORY TREES, SHRUBS, AND OTHER SPECIFIED NATIVE PLANT MATERIAL.
11. ALL PLANT MATERIAL SHALL BE NATIVE SPECIES SUITABLE FOR THE EXISTING SITE CONDITIONS AND CONSISTENT WITH THE APPROVED PLANT SCHEDULE.
12. FINAL PLANTING LOCATIONS AND DISTRIBUTION SHALL RESPOND TO EXISTING FOREST CONDITIONS AND SHALL BE FIELD ADJUSTED AS NECESSARY TO PROMOTE SUCCESSFUL ESTABLISHMENT AND CONTINUITY WITH THE EXISTING FOREST.
13. TEMPORARY AND PERMANENT SEEDING, WHERE REQUIRED, SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT PLANS AND APPLICABLE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
14. THE CONTRACTOR SHALL PROVIDE WATER AS NECESSARY FOR THE INSTALLATION AND ESTABLISHMENT OF PROPOSED PLANT MATERIAL.
15. SEE INVASIVE SPECIES TREATMENT NOTES AND PROJECT SEQUENCE/SCHEDULE FOR REQUIREMENTS ASSOCIATED WITH INVASIVE SPECIES CONTROL, TREE-OF-HEAVEN TREATMENT, PLANTING SEQUENCING, AND MONITORING.
16. REFORESTATION PLANTING WITHIN FORMER AGRICULTURAL FIELDS SHALL BE COORDINATED WITH THE CROP-TO-MEADOW CONVERSION / REFORESTATION SITE PREPARATION NOTES ON THIS SHEET.
17. NATIVE GROUNDCOVER ESTABLISHMENT AND REFORESTATION PLANTING SHALL BE COORDINATED TO MINIMIZE DISTURBANCE TO ESTABLISHED NATIVE VEGETATION AND SUPPORT SUCCESSFUL LONG-TERM FOREST ESTABLISHMENT.

[illegible]

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License #27734 Expiration Date: 07/12/26

MITIGATION PLANTING NOTES & SPECIFICATIONS

PHASE II SITE IMPROVEMENTS BOHEMIA RIVER STATE PARK

THE STATE OF MARYLAND
4030 AUGUSTINE HERMAN HWY
CHESAPEAKE CITY 21915-0000
MAP - 52 GRID - 0012 PARCEL - 0029
ADC MAP 21 H8 & H5
DCS PROJECT NO. P-048-221-010

DESIGNED: JDM

DRAWN: JDM

CHECKED: RH

SCALE: AS SHOWN

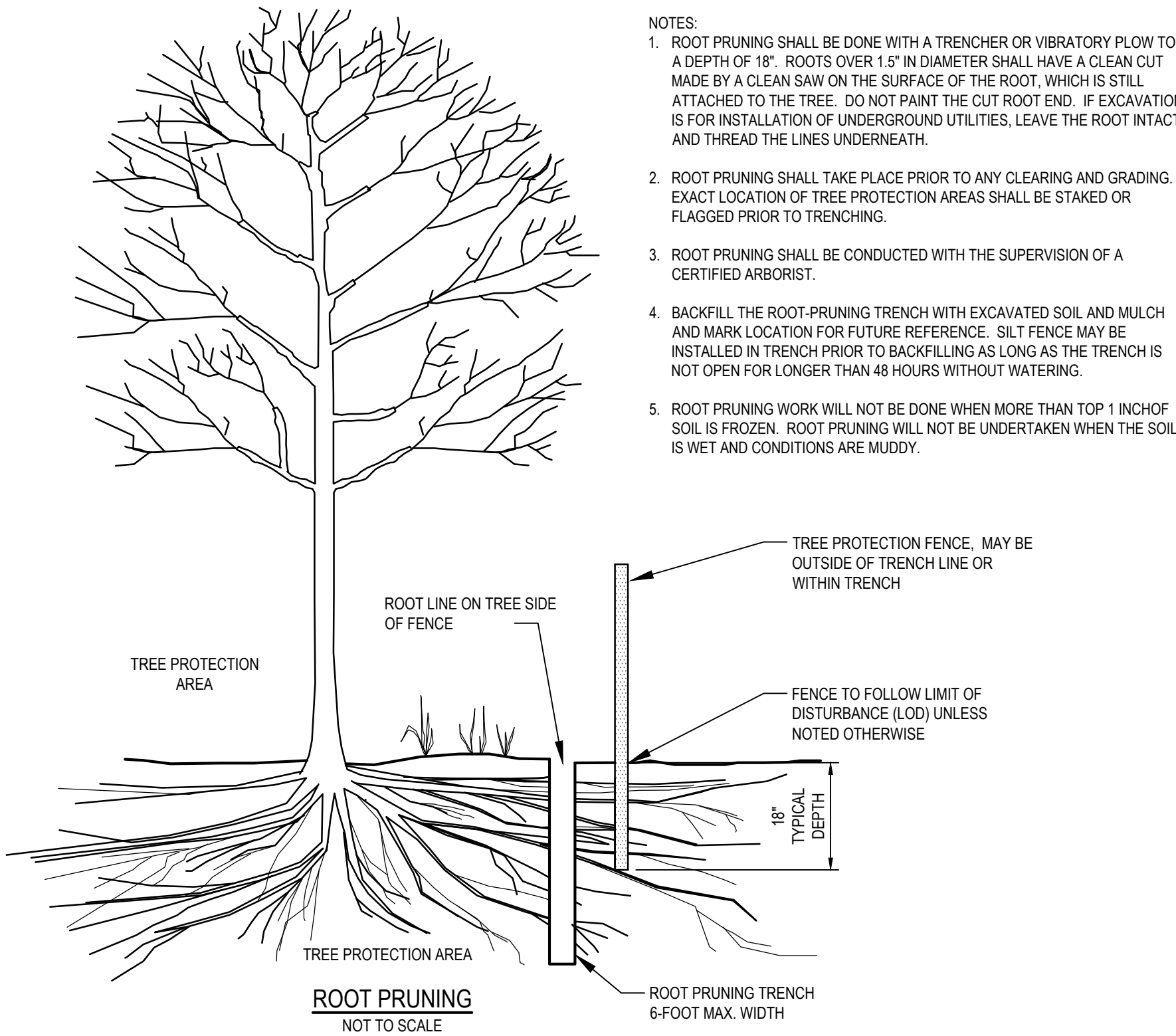
DATE: 09/16/2026

PROJECT:	2020.0479.
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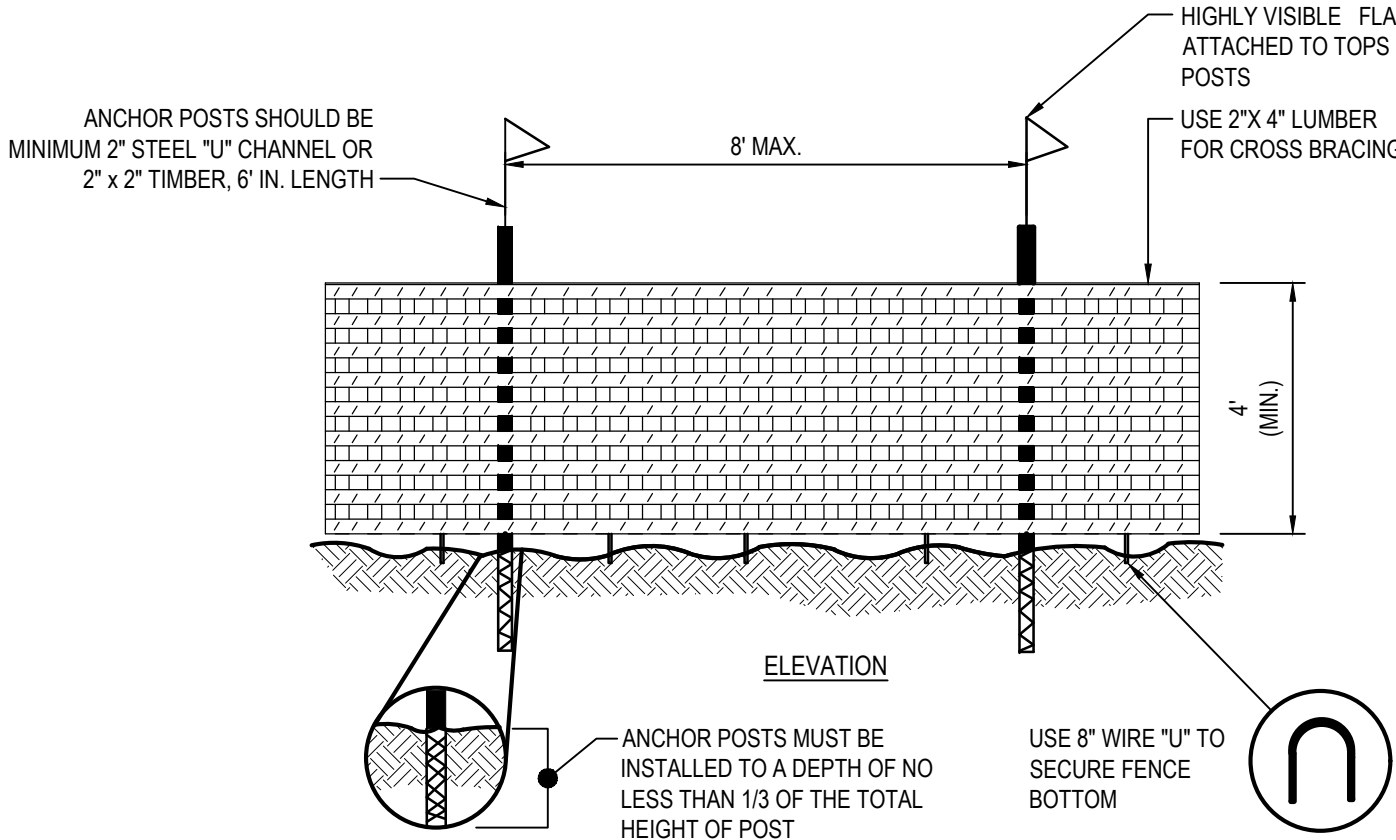
DRAWING:

C803

MDE #25-SF-0085



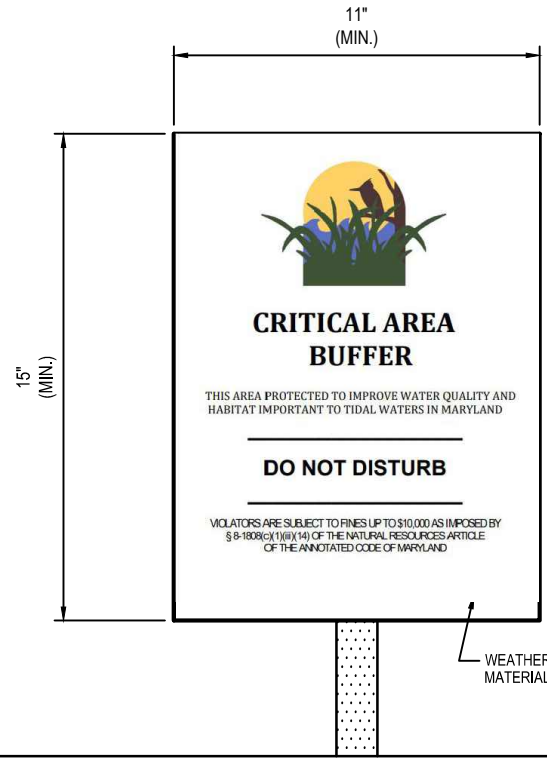
- NOTES:
1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 18". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.
 2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING.
 3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF A CERTIFIED ARBORIST.
 4. BACKFILL THE ROOT-PRUNING TRENCH WITH EXCAVATED SOIL AND MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.
 5. ROOT PRUNING WORK WILL NOT BE DONE WHEN MORE THAN TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING WILL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.



- NOTES:
1. BLAZE ORANGE OR BLUE PLASTIC MESH FENCE FOR FOREST PROTECTION DEVICE ONLY.
 2. BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHALL BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 4. AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVER LARGE ROOTS WHEN INSTALLING POSTS.
 5. PROTECTION SIGNS ARE REQUIRED.
 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCE

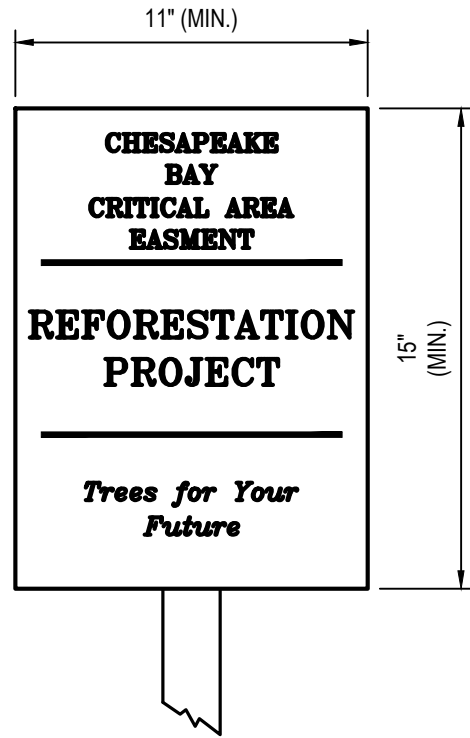
NOT TO SCALE



- NOTES:
1. BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
 2. SIGNS TO BE PLACED APPROXIMATELY 100' APART ALONG THE CRITICAL AREA BUFFER / EXPANDED BUFFER WHERE INDICATED ON THE PLANS. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER TOGETHER.
 3. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.

BUFFER PROTECTION SIGNS

NOT TO SCALE



- NOTES:
1. SIGNAGE TO BE INSTALLED ALONG THE COMMON BOUNDARY OF THE TREE PROTECTION FENCE WITH REFORESTATION PLANTING AREAS, WHERE INDICATED ON THE PLANS.
 2. SIGNS TO BE INSTALLED A MINIMUM OF 100' FT. ON CENTER AND AT EVERY CORNER OF THE PROTECTED AREA.
 3. SIGNS TO BE MOUNTED AT A HEIGHT OF 4' ON 4" X 4" PRESSURE-TREATED POSTS.
 4. SIGNAGE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND REPLACED OR REPAIRED AS NECESSARY.

AFFORESTATION PROTECTION SIGNAGE

NOT TO SCALE

AFFORESTATION OR REFORESTATION MAINTENANCE AND REPLACEMENT REQUIREMENTS

A MINIMUM TWO (2)-YEAR MAINTENANCE AND REPLACEMENT PERIOD IS REQUIRED FOR ALL NEWLY PLANTED MATERIALS, OR AS OTHERWISE REQUIRED BY THE APPROVING AUTHORITY AND APPLICABLE PROJECT REQUIREMENTS.

THE MAINTENANCE AND REPLACEMENT PERIOD SHALL COMMENCE FOLLOWING ACCEPTANCE OF THE INITIAL PLANTING INSTALLATION BY THE OWNER/PERMITTEE OR THEIR AUTHORIZED REPRESENTATIVE.

THE OWNER/PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT ALL AFFORESTATION AND REFORESTATION AREAS ARE MAINTAINED AND THAT REPLACEMENT PLANTING IS PROVIDED AS NECESSARY TO MAINTAIN THE APPROVED MITIGATION REQUIREMENTS, EVEN IF MAINTENANCE IS PERFORMED BY A CONTRACTOR.

ALL PLANT MATERIAL, INSTALLED AS PART OF THE APPROVED REFORESTATION OR MITIGATION PLAN SHALL BE COVERED UNDER THIS MAINTENANCE AND REPLACEMENT PROGRAM.

MAINTENANCE

THE CONTRACTOR SHALL FIELD-INSPECT ALL NEWLY PLANTED AREAS AND PROVIDE THE FOLLOWING MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE APPROVED PLAN AND APPROVING AUTHORITY REQUIREMENTS. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER ACCEPTANCE OF THE PLANTING INSTALLATION.

1. **WATERING**
WATER ALL NEWLY PLANTED MATERIAL AS NECESSARY TO SUPPORT SUCCESSFUL ESTABLISHMENT, TAKING INTO ACCOUNT NATURAL RAINFALL, SOIL MOISTURE, SEASONAL CONDITIONS, AND PLANT CONDITION. DURING PERIODS OF EXTENDED HEAT OR DROUGHT, PROVIDE SUPPLEMENTAL WATER AS REQUIRED. WATER DEEPLY AND SLOWLY TO PROVIDE ADEQUATE SOIL MOISTURE WITHIN THE ROOT ZONE.
2. **FERTILIZING**
FERTILIZE ONLY AFTER SOIL TESTING INDICATES A NEED. APPLY FERTILIZER OR SOIL AMENDMENTS ONLY AS RECOMMENDED BY THE SOIL ANALYSIS AND WHERE APPROVED BY THE OWNER/PERMITTEE OR THEIR AUTHORIZED REPRESENTATIVE. NO FERTILIZER SHALL BE APPLIED UNLESS REQUIRED TO CORRECT A DOCUMENTED SOIL DEFICIENCY.
3. **SUPPLEMENTAL MULCH**
WHERE MULCH IS INDICATED BY THE PLANTING DETAILS, MAINTAIN A 3-INCH LAYER OF ORGANIC MULCH AROUND EACH PLANTING TO SUPPRESS WEEDS AND RETAIN SOIL MOISTURE. REMOVE INVASIVE AND COMPETING VEGETATION AS NECESSARY WITHOUT DAMAGING THE PLANT MATERIAL, ROOT SYSTEM, OR TREE PROTECTION DEVICES.
4. **INVASIVE SPECIES CONTROL**
MONITOR AFFORESTATION AND REFORESTATION AREAS FOR INVASIVE VINES, SHRUBS, TREES, OR HERBACEOUS WEEDS THROUGHOUT THE MAINTENANCE PERIOD. REMOVE OR TREAT INVASIVE SPECIES USING APPROVED METHODS CONSISTENT WITH THE APPROVED PLAN AND INVASIVE SPECIES TREATMENT NOTES.
5. **PRUNING**
REMOVE DEAD, DISEASED, DYING, AND BROKEN BRANCHES FROM ALL PLANT MATERIALS. PRUNING SHALL BE DONE CLEANLY, USING ACCEPTED ARBORICULTURAL PRACTICES.
6. **PROTECTION DEVICES**
MAINTAIN ALL TREE SHELTERS, STAKES, AND SIGNAGE IN UPRIGHT, FUNCTIONAL CONDITION THROUGHOUT THE MAINTENANCE PERIOD. REPLACE OR REPAIR DAMAGED DEVICES AS NEEDED. REMOVE OR ADJUST TREE SHELTERS, STAKES, TIES, OR OTHER PROTECTION DEVICES WHEN THEY INTERFERE WITH HEALTHY PLANT DEVELOPMENT OR AS DIRECTED BY THE OWNER/PERMITTEE OR THEIR AUTHORIZED REPRESENTATIVE.

REPLACEMENT OF DEAD OR DYING MATERIALS

1. **SURVIVAL REQUIREMENT:** PLANT SURVIVAL SHALL BE MONITORED THROUGHOUT THE REQUIRED MAINTENANCE PERIOD. DEAD, DYING, MISSING, OR OTHERWISE UNSATISFACTORY PLANT MATERIAL SHALL BE REPLACED AS NECESSARY TO MAINTAIN THE REQUIRED PLANTING DENSITY, SPECIES COMPOSITION, AND MITIGATION REQUIREMENTS SHOWN ON THE APPROVED PLAN.
2. **INSPECTION:** AFFORESTATION AND REFORESTATION AREAS SHALL BE INSPECTED PERIODICALLY THROUGHOUT THE REQUIRED MAINTENANCE PERIOD TO EVALUATE PLANT SURVIVAL, VIGOR, COMPETING VEGETATION, INVASIVE SPECIES, PROTECTION DEVICES, AND GENERAL ESTABLISHMENT. NECESSARY CORRECTIVE ACTIONS SHALL BE IDENTIFIED AND COMPLETED AS REQUIRED.

INSPECTIONS SHALL CONSIDER THE FOLLOWING, AS APPLICABLE:

- A. VIGOR AND THREAT OF COMPETING VEGETATION
 - B. PLANT STRUCTURE
 - C. GROWTH RATE
 - D. CROWN DEVELOPMENT
 - E. TRUNK CONDITIONS AND HEALTH
 - F. CONDITION OF TREE SHELTERS, STAKES, AND OTHER PROTECTION DEVICES
 - G. PRESENCE AND EXTENT OF INVASIVE SPECIES
3. **MAINTENANCE RECORDS:** THE CONTRACTOR SHALL MAINTAIN RECORDS OF REQUIRED MAINTENANCE, INVASIVE SPECIES TREATMENT, REPLACEMENT PLANTING, AND OTHER CORRECTIVE ACTIONS PERFORMED DURING THE REQUIRED MAINTENANCE PERIOD. RECORDS SHALL BE PROVIDED TO THE OWNER/PERMITTEE OR THEIR AUTHORIZED REPRESENTATIVE UPON REQUEST.
 4. **REPLACEMENT:** DEAD, DYING, MISSING, OR OTHERWISE UNSATISFACTORY PLANT MATERIAL SHALL BE REPLACED DURING THE APPROPRIATE PLANTING SEASON AS NECESSARY TO MAINTAIN THE REQUIRED PLANTING DENSITY, SPECIES COMPOSITION, AND MITIGATION REQUIREMENTS SHOWN ON THE APPROVED PLAN. REPLACEMENT MATERIAL SHALL BE OF THE SAME SPECIES, STOCK TYPE, AND SIZE SPECIFIED IN THE APPROVED PLANT SCHEDULE, UNLESS AN ALTERNATE IS APPROVED BY THE OWNER/PERMITTEE OR THEIR AUTHORIZED REPRESENTATIVE.
 5. **FINAL INSPECTION:** PRIOR TO COMPLETION OF THE REQUIRED MAINTENANCE PERIOD, THE AFFORESTATION AND REFORESTATION AREAS SHALL BE INSPECTED TO VERIFY PLANT SURVIVAL, REQUIRED REPLACEMENT PLANTING, INVASIVE SPECIES CONTROL, CONDITION OF PROTECTION DEVICES, AND GENERAL COMPLIANCE WITH THE APPROVED PLAN. ANY REQUIRED CORRECTIVE ACTIONS SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

BY	REVISION	DATE	NO.

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Baltimore, MD 21286
410.512.4300 www.gftinc.com

GFT

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License #27734 Expiration Date: 07/12/26

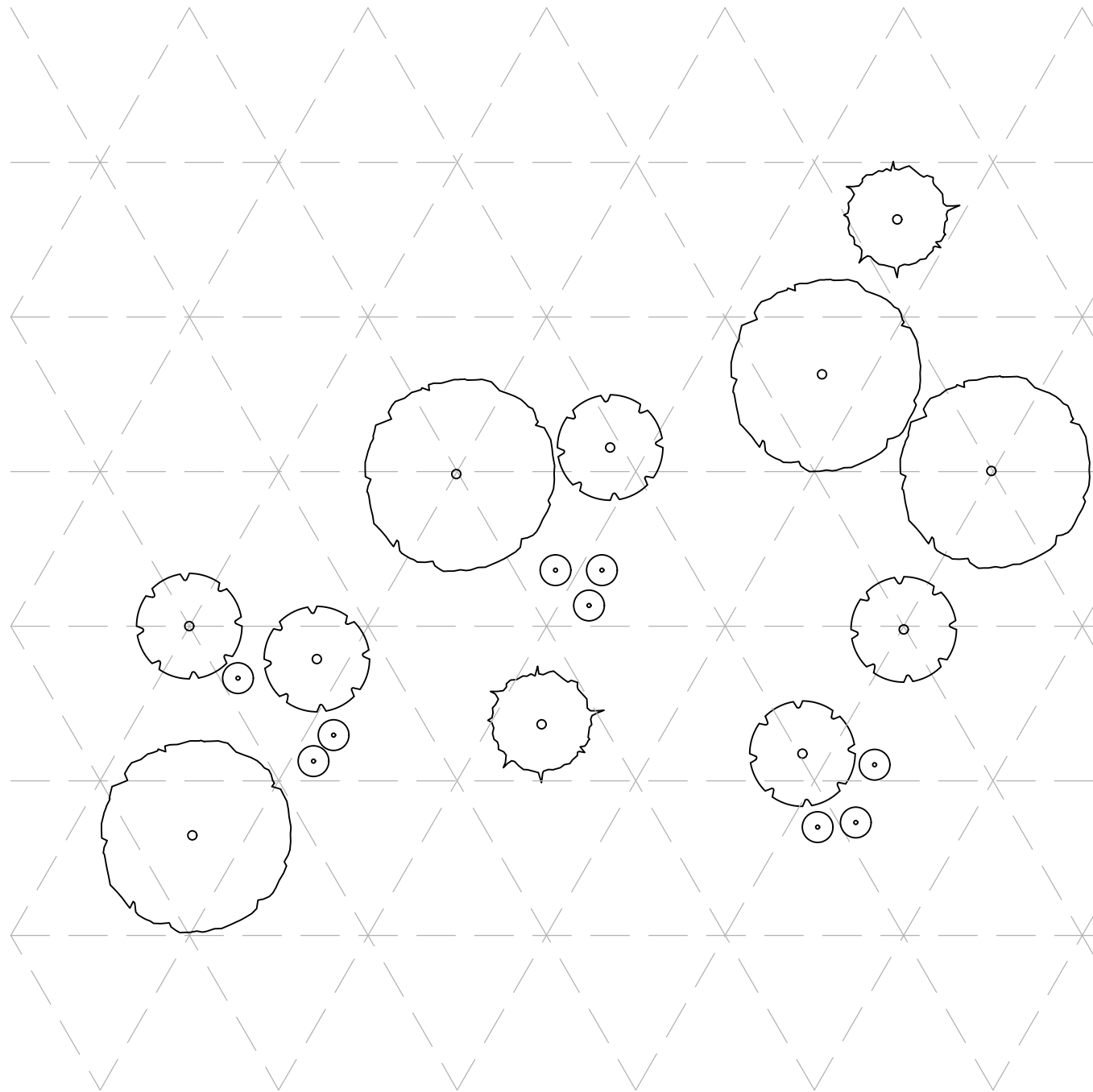
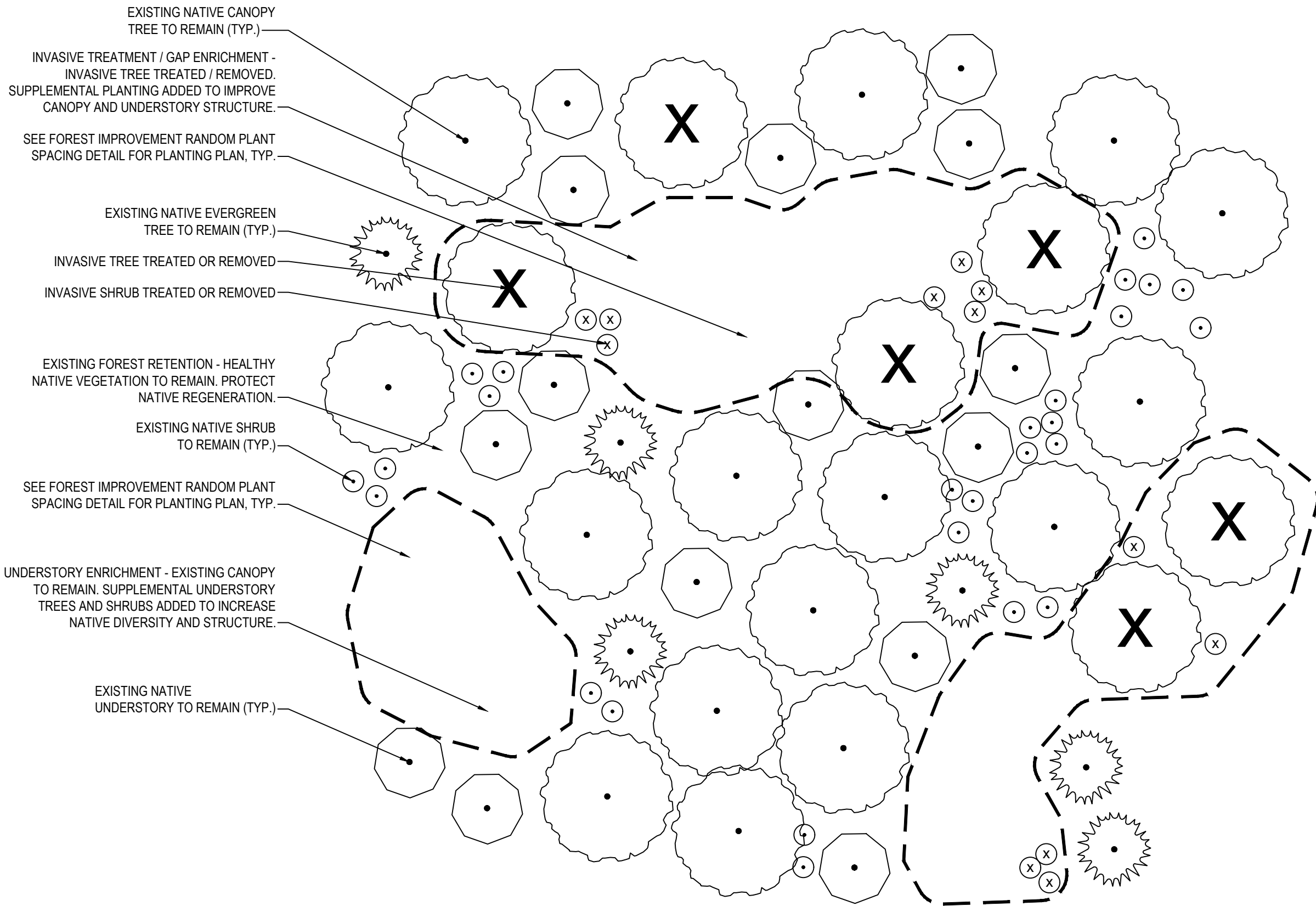
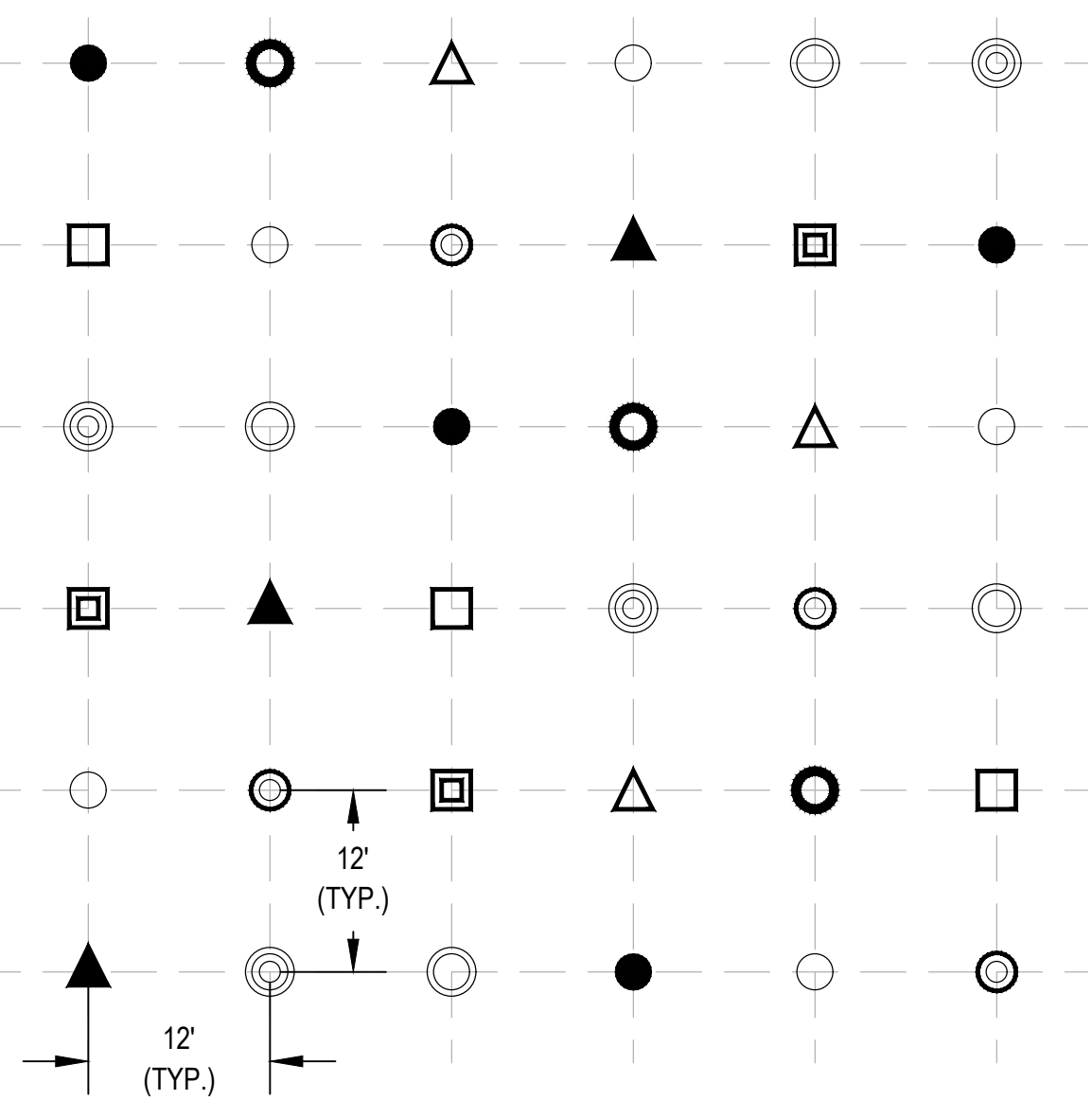
MITIGATION PROTECTION & MAINTENANCE DETAILS

PHASE II SITE IMPROVEMENTS BOHEMIA RIVER STATE PARK

THE STATE OF MARYLAND
4030 AUGUSTINE HERMAN HWY
CHESAPEAKE CITY 21915-0000
TAX MAP - 52 GRD - 2012 PARCEL - 0029
LOCAL MAP 21 H & S
DGS REQUEST NO. 150424-1010

DESIGNED:	JDM
DRAWN:	JDM
CHECKED:	RH
SCALE:	AS SHOWN
DATE:	09/16/2026
PROJECT:	2020.0479.07
DRAWING:	

C804



- NOTES:
- SUPPLEMENTAL PLANTING WITHIN FOREST IMPROVEMENT AREAS SHALL BE RANDOMLY DISTRIBUTED AND INTERMIXED WITH EXISTING NATIVE VEGETATION TO REMAIN.
 - TARGET FOREST IMPROVEMENT PLANTING DISTRIBUTION SHALL BE 10% TREES, 20% UNDERSTORY TREES, 20% LARGE SHRUBS, 15% SMALL SHRUBS, AND 15% HERBACEOUS PLANT MATERIAL.
 - THE REMAINING 20% OF THE FOREST IMPROVEMENT AREA SHALL CONSIST OF EXISTING NATIVE FOREST VEGETATION, DESIRABLE NATURAL REGENERATION, AND OPEN FOREST FLOOR TO REMAIN.
 - TARGET PLANTING DISTRIBUTION REPRESENTS THE OVERALL DISTRIBUTION OF SUPPLEMENTAL PLANT MATERIAL THROUGHOUT THE FOREST IMPROVEMENT AREA AND SHALL NOT BE APPLIED AS A REPEATING PLANTING MODULE.
 - RANDOMLY MIX AND CLUSTER PLANT SPECIES. OFFSET PLANTS TO AVOID STRAIGHT ROWS, REGULAR PATTERNS, OR ORCHARD-STYLE PLANTING.
 - FIELD ADJUST PLANT LOCATIONS TO RESPOND TO EXISTING FOREST CONDITIONS, CANOPY GAPS, AREAS RELEASED THROUGH INVASIVE SPECIES TREATMENT, AND EXISTING DESIRABLE NATIVE REGENERATION.
 - EXISTING HEALTHY NATIVE TREES, UNDERSTORY VEGETATION, SHRUBS, HERBACEOUS VEGETATION, AND DESIRABLE NATIVE REGENERATION SHALL REMAIN AND BE PROTECTED.
 - DO NOT CLEAR, GRUB, OR REMOVE DESIRABLE NATIVE VEGETATION TO ACHIEVE THE INDICATED PLANTING DISTRIBUTION OR SPACING.
 - REFER TO FOREST IMPROVEMENT PLANT SCHEDULE FOR SPECIES, QUANTITIES, STOCK SIZE, SPACING, AND TARGET DENSITIES.
 - REFER TO INVASIVE SPECIES TREATMENT NOTES AND PROJECT SEQUENCE / SCHEDULE. COMPLETE INITIAL INVASIVE SPECIES TREATMENT PRIOR TO SUPPLEMENTAL PLANTING.
 - FINAL PLANT LOCATIONS SHALL BE FIELD ADJUSTED AS NECESSARY TO RESPOND TO EXISTING FOREST CONDITIONS AND MAY BE FURTHER ADJUSTED AS DIRECTED BY THE ON-SITE INSPECTOR.

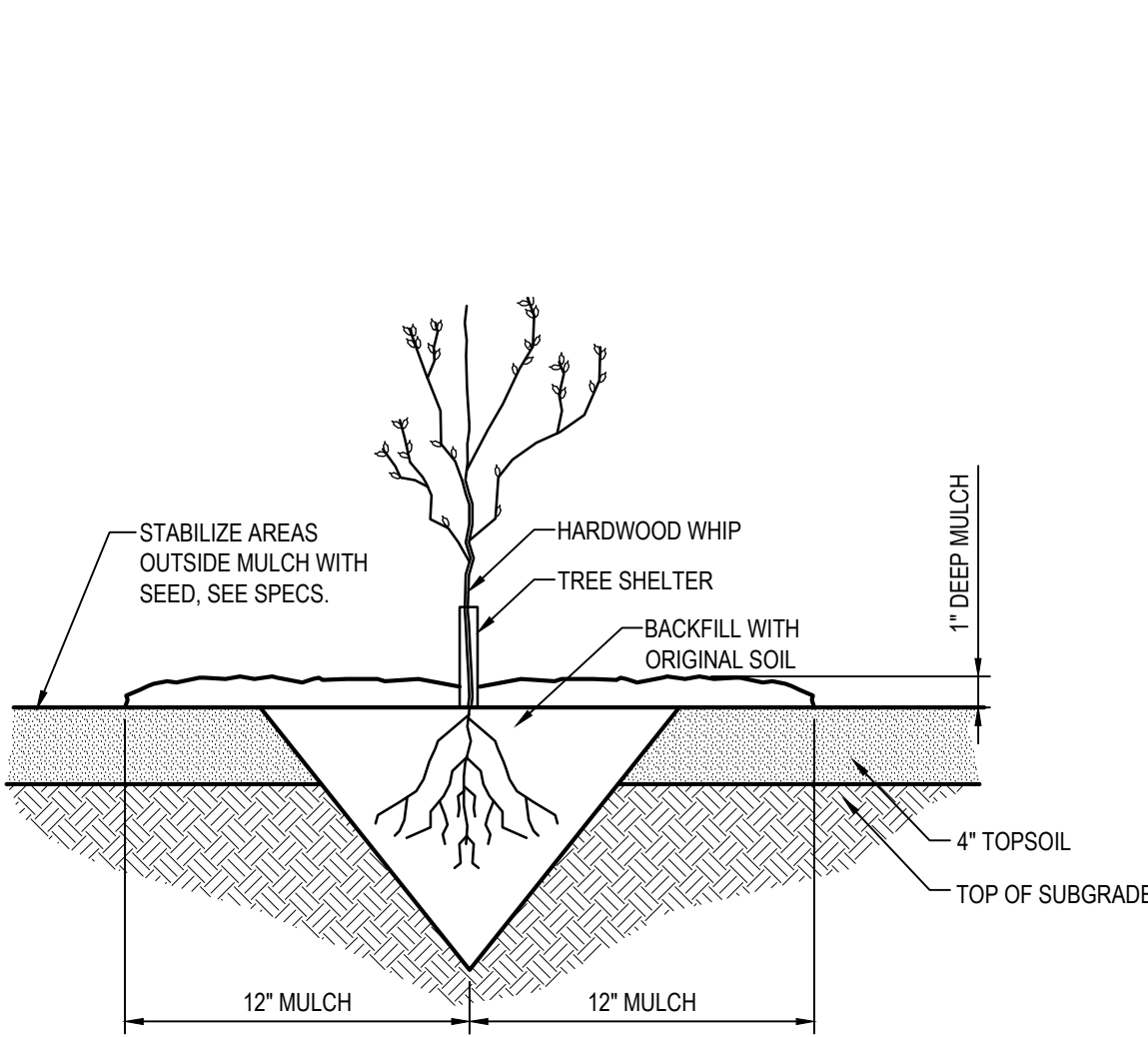
- NOTES:
- EXISTING HEALTHY NATIVE TREES, UNDERSTORY VEGETATION, SHRUBS, HERBACEOUS VEGETATION, AND DESIRABLE NATIVE REGENERATION SHALL REMAIN AND BE PROTECTED.
 - COMPLETE INITIAL INVASIVE SPECIES TREATMENT PRIOR TO SUPPLEMENTAL PLANTING. REFER TO INVASIVE SPECIES TREATMENT NOTES AND PROJECT SEQUENCE / SCHEDULE.
 - SUPPLEMENTAL PLANTING AREAS SHOWN ARE DIAGRAMMATIC AND REPRESENT EXISTING CANOPY GAPS, AREAS RELEASED THROUGH INVASIVE SPECIES TREATMENT, AND OTHER SUITABLE LOCATIONS FOR FOREST IMPROVEMENT AND ENRICHMENT.
 - FINAL SUPPLEMENTAL PLANTING AREAS SHALL BE FIELD VERIFIED FOLLOWING INITIAL INVASIVE SPECIES TREATMENT AND SHALL RESPOND TO EXISTING FOREST CONDITIONS, CANOPY GAPS, AND DESIRABLE NATIVE REGENERATION TO REMAIN.
 - DO NOT CLEAR, GRUB, OR REMOVE DESIRABLE NATIVE VEGETATION TO CREATE OR ENLARGE SUPPLEMENTAL PLANTING AREAS OR TO ACHIEVE UNIFORM PLANT SPACING.
 - SUPPLEMENTAL PLANTING SHALL BE USED TO IMPROVE NATIVE SPECIES DIVERSITY, VERTICAL FOREST STRUCTURE, UNDERSTORY AND SHRUB DEVELOPMENT, HERBACEOUS COVER, AND LONG-TERM CANOPY REGENERATION.
 - TARGET FOREST IMPROVEMENT PLANTING DISTRIBUTION SHALL BE 10% TREES, 20% UNDERSTORY TREES, 20% LARGE SHRUBS, 15% SMALL SHRUBS, AND 15% HERBACEOUS PLANT MATERIAL. THE REMAINING 20% SHALL CONSIST OF EXISTING NATIVE FOREST VEGETATION, DESIRABLE NATURAL REGENERATION, AND OPEN FOREST FLOOR TO REMAIN.
 - REFER TO FOREST IMPROVEMENT RANDOM PLANT SPACING DETAIL FOR SUPPLEMENTAL PLANT DISTRIBUTION, RANDOM MIXING, CLUSTERING, AND SPACING WITHIN DESIGNATED PLANTING AREAS.
 - REFER TO FOREST IMPROVEMENT PLANT SCHEDULE FOR SPECIES, QUANTITIES, STOCK SIZE, SPACING, AND TARGET DENSITIES.
 - FINAL SUPPLEMENTAL PLANT LOCATIONS MAY BE FIELD ADJUSTED AS DIRECTED BY THE ON-SITE INSPECTOR TO RESPOND TO EXISTING FOREST CONDITIONS.

- NOTES:
- REFORESTATION PLANTING SHALL CONSIST OF NATIVE TREE AND UNDERSTORY TREE SPECIES INSTALLED IN ACCORDANCE WITH THE REFORESTATION PLANT SCHEDULE.
 - PLANT MATERIAL SHALL BE INSTALLED AT APPROXIMATELY 12-FOOT BY 12-FOOT SPACING, PROVIDING AN OVERALL STOCKING DENSITY OF APPROXIMATELY 302 PLANTS PER ACRE.
 - PLANT MATERIAL SHALL BE GENERALLY INSTALLED ON THE INDICATED SPACING. MINOR ADJUSTMENTS TO PLANT LOCATIONS ARE PERMITTED TO CREATE A NATURALIZED PLANTING PATTERN AND RESPOND TO FIELD CONDITIONS.
 - TREE AND UNDERSTORY TREE SPECIES SHALL BE RANDOMLY INTERMIXED THROUGHOUT THE REFORESTATION AREA. DO NOT INSTALL INDIVIDUAL SPECIES IN CONTINUOUS ROWS OR LARGE SINGLE-SPECIES GROUPINGS.
 - PROVIDE APPROXIMATELY 80 PERCENT OVERSTORY TREE SPECIES AND 20 PERCENT UNDERSTORY TREE SPECIES THROUGHOUT THE OVERALL REFORESTATION AREA.
 - THE PLANTING PATTERN SHOWN IS DIAGRAMMATIC AND IS INTENDED TO ILLUSTRATE THE GENERAL SPACING, DISTRIBUTION, AND INTERMIXING OF PLANT MATERIAL. THE PATTERN SHALL NOT BE REPEATED AS A RIGID PLANTING MODULE.
 - FIELD ADJUST PLANT LOCATIONS AS NECESSARY TO AVOID UTILITIES, DRAINAGE FEATURES, ACCESS AREAS, EXISTING VEGETATION TO REMAIN, AND OTHER FIELD CONDITIONS WHILE MAINTAINING THE REQUIRED PLANT QUANTITIES AND GENERAL STOCKING DENSITY.
 - DO NOT INSTALL PLANT MATERIAL WHEN THE GROUND IS FROZEN, SATURATED, EXTREMELY DRY, OR OTHERWISE UNSUITABLE FOR PLANTING.
 - PROTECT EXISTING VEGETATION AND SITE FEATURES TO REMAIN DURING PLANTING OPERATIONS.
 - INSTALL TREE PROTECTION, STAKING, AND OTHER PROTECTIVE MEASURES AS INDICATED IN THE APPLICABLE PLANTING DETAILS.
 - WATER PLANT MATERIAL THOROUGHLY IMMEDIATELY FOLLOWING INSTALLATION.
 - REFER TO THE REFORESTATION PLANT SCHEDULE, PLANTING DETAILS, AND PROJECT PLANTING NOTES FOR ADDITIONAL PLANT MATERIAL, INSTALLATION, ESTABLISHMENT, AND MAINTENANCE REQUIREMENTS.

PLAN
FOREST IMPROVEMENT RANDOM PLANT SPACING
NOT TO SCALE

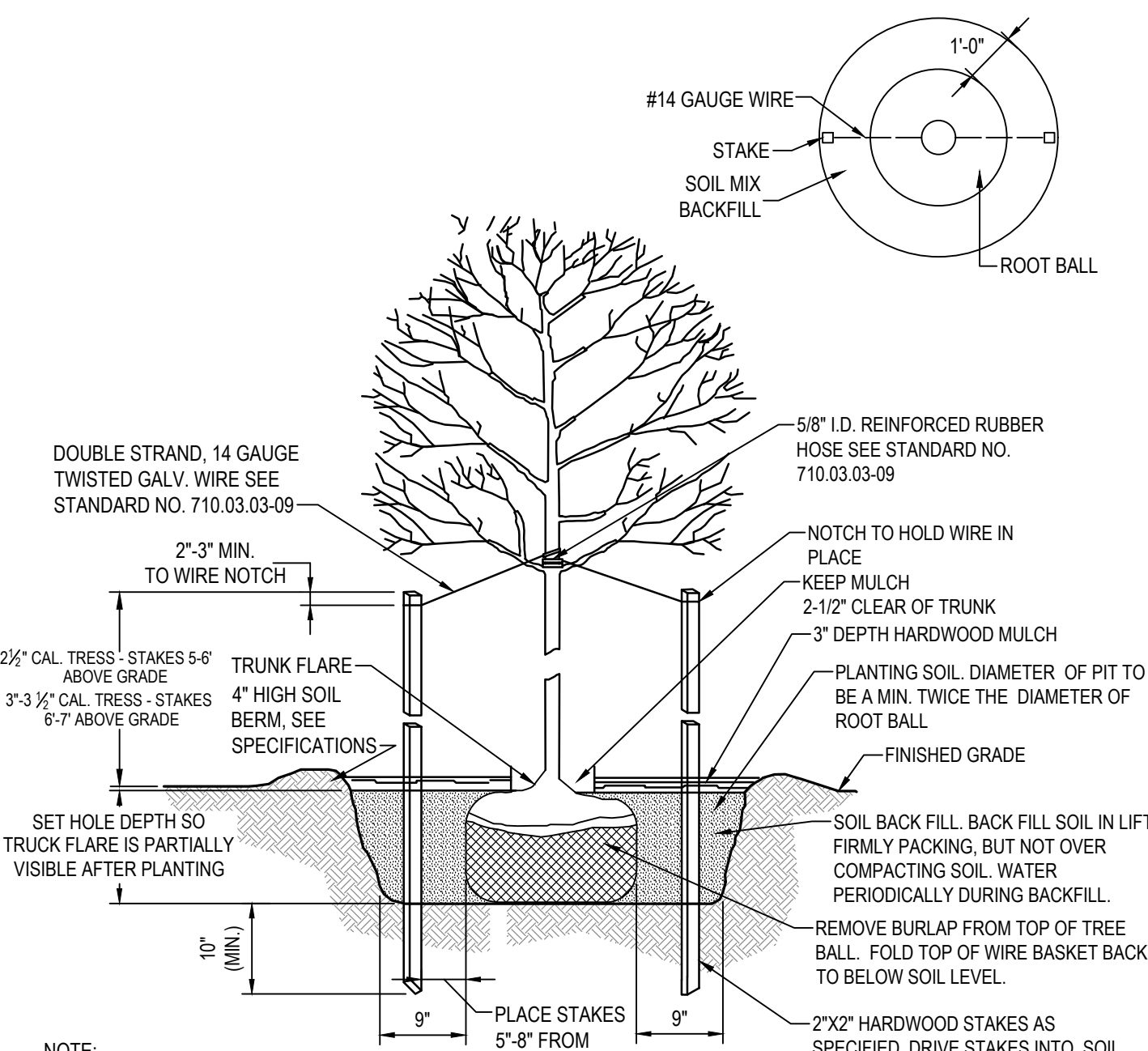
PLAN
FOREST IMPROVEMENT / INVASIVE TREATMENT
NOT TO SCALE

PLAN
10 TREE REFORESTATION PLANTING DETAIL
NOT TO SCALE



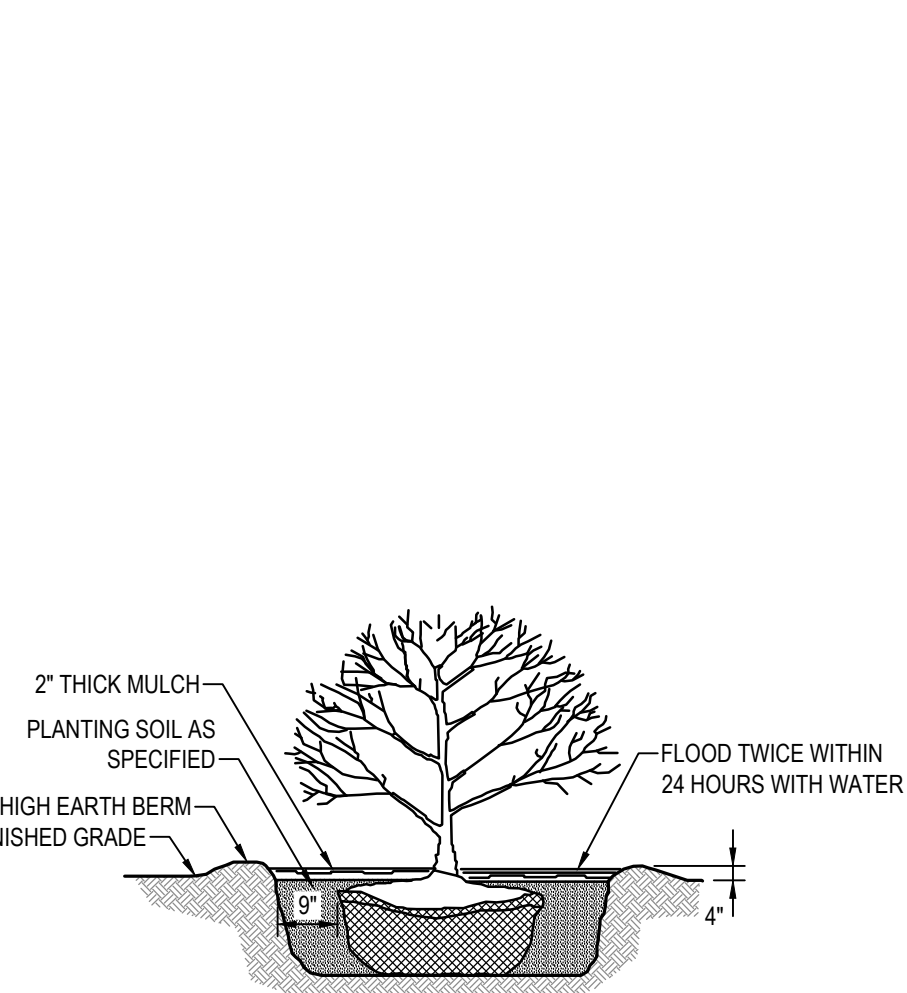
- NOTES:
- EXTREME CARE SHALL BE TAKEN TO INSURE RETAINED MOISTURE OF THE ROOTS. A MOIST CARRYING CONTAINER SHALL BE USED WHEN TRANSPORTING WHIPS TO THE FIELD.
 - DO NOT SUBMERGE ROOTS OF WHIPS IN WATER OVERNIGHT.

ELEVATION
WHIP PLANTING
NOT TO SCALE



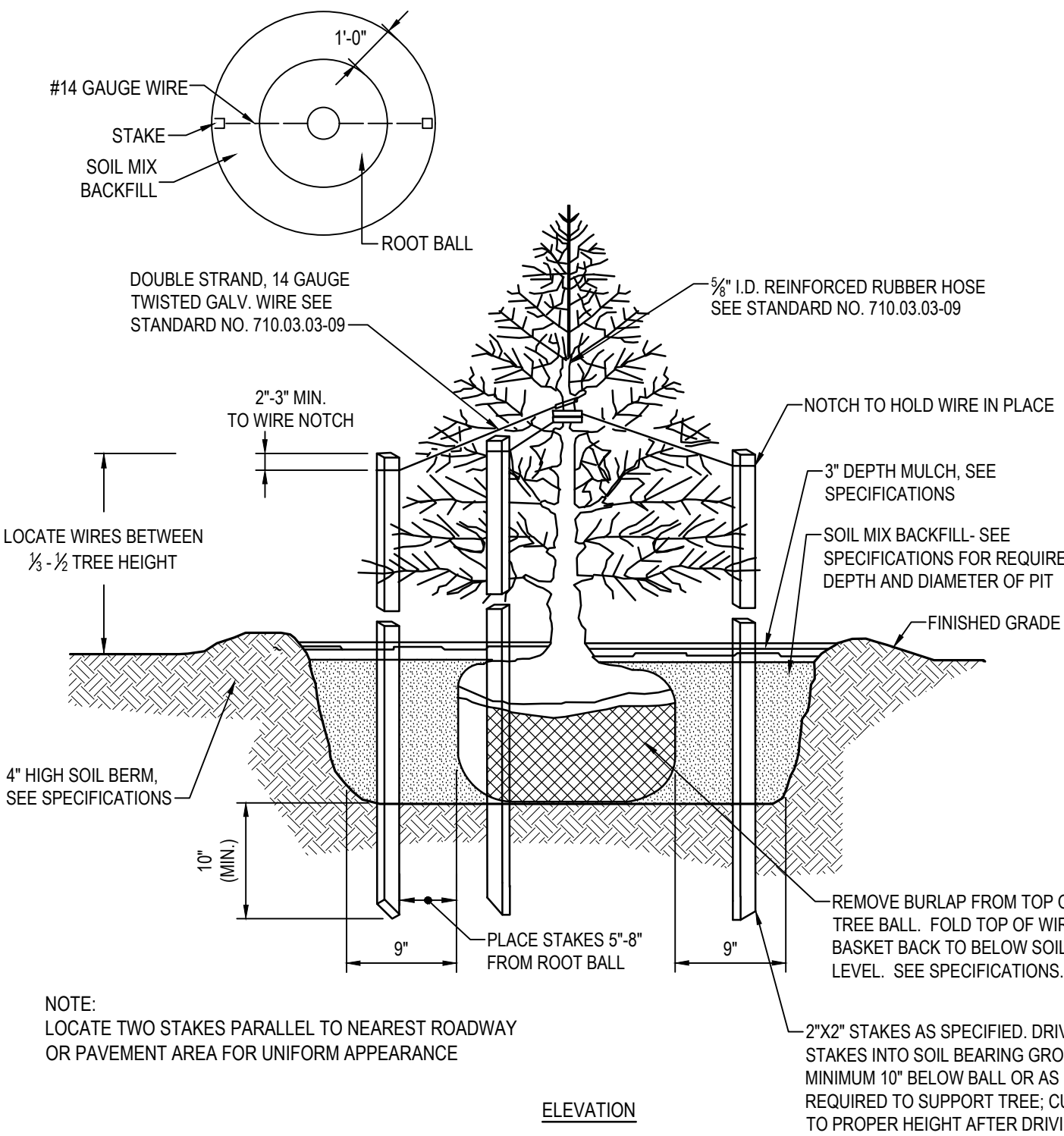
NOTE:
LOCATE TWO STAKES PARALLEL TO NEAREST ROADWAY OR PAVEMENT AREA FOR UNIFORM APPEARANCE

ELEVATION
DECIDUOUS TREE
NOT TO SCALE



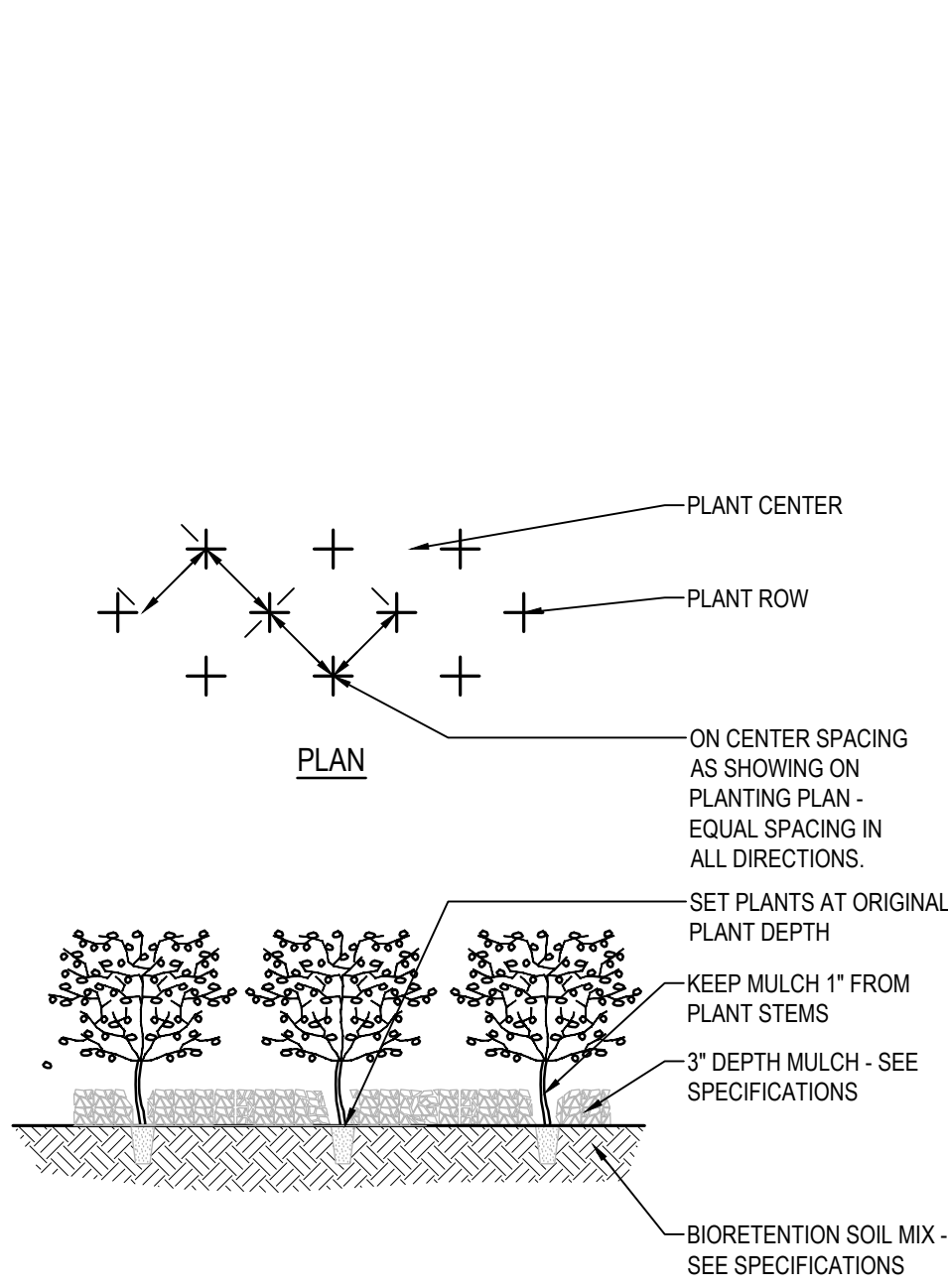
- NOTES:
- SHRUBS SHALL BE PLANTED IN TILLED, MULCHED BEDS WHICH HAVE BEEN AMENDED WITH EITHER PEAT MOSS OR COMPOSTED LEAF MOLD.
 - SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ALL MATERIALS.

ELEVATION
SHRUB
NOT TO SCALE



NOTE:
LOCATE TWO STAKES PARALLEL TO NEAREST ROADWAY OR PAVEMENT AREA FOR UNIFORM APPEARANCE

ELEVATION
EVERGREEN TREE
NOT TO SCALE



SECTION
GROUND COVER / PERENNIALS
NOT TO SCALE

BY	
REVISION	
DATE	
NO.	

300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.gftinc.com

GFT

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License #27734 Expiration Date: 07/12/26

MITIGATION PLANTING & FOREST IMPROVEMENT DETAILS

PHASE II SITE IMPROVEMENTS BOHEMIA RIVER STATE PARK

THE STATE OF MARYLAND
4030 AUGUSTINE HERMAN HWY
CHESAPEAKE CITY 21915-0000
TAX MAP - 52 GRID - 0012 PARCEL - 0029
ACC MAP 2196 & 145
DOCS PROJECTING 1406921010

DESIGNED: JDM
DRAWN: JDM
CHECKED: RH
SCALE: AS SHOWN
DATE: 09/16/2026
PROJECT: 2020 0479 07
DRAWING: C805

See 03_2025-230m User:Kazakhstan

Mitigation Zone 2 – Forest Enhancement Within Buffer					
(282,851 SF / 6.49 AC)					
Botanical Name	Common Name	Size	Form	Spacing	Quantity
Trees – 10% (28,285 SF)					
Quercus alba	White Oak	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	41
Quercus phellos	Willow Oak	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	41
Quercus rubra	Northern Red Oak	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	41
Acer rubrum	Red Maple	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	40
Liriodendron tulipifera	Tulip Poplar	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	40
Liquidambar styraciflua	Sweetgum	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	40
Nyssa sylvatica	Black Gum	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	40
Understory Trees – 20% (56,570 SF)					
Amelanchier canadensis	Serviceberry	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	95
Asimina triloba	Pawpaw	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	95
Cercis canadensis	Eastern Redbud	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	94
Carpinus caroliniana	American Hornbeam	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	94
Chionanthus virginicus	White Fringetree	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	94
Ilex opaca	American Holly	5' Height	B&B / Container	10' o.c.	94
Large Shrubs – 20% (56,570 SF)					
Lindera benzoin	Northern Spicebush	5' Height	#7 Container	7' o.c.	231
Viburnum prunifolium	Blackhaw Viburnum	5' Height	#7 Container	7' o.c.	231
Viburnum dentatum	Southern Arrowwood	5' Height	#7 Container	7' o.c.	231
Hamamelis virginiana	Witch Hazel	5' Height	#7 Container	7' o.c.	231
Vaccinium corymbosum	Highbush Blueberry	5' Height	#7 Container	7' o.c.	230
Small Shrubs – 15% (42,428 SF)					
Clethra alnifolia	Sweet Pepperbush	3' Height	#5 Container	7' o.c.	217
Ilex glabra	Inkberry	3' Height	#5 Container	7' o.c.	217
Aronia arbutifolia	Red Chokeberry	3' Height	#5 Container	7' o.c.	216
Ceanothus americanus	New Jersey Tea	3' Height	#5 Container	7' o.c.	216
Herbaceous – 15% (42,428 SF)					
Polystichum acrostichoides	Christmas Fern	1 Gallon Cont.	Container	7' o.c.	217
Polygonatum pubescens	Solomon's Seal	1 Gallon Cont.	Container	7' o.c.	217
Eurybia divaricata	White Wood Aster	1 Gallon Cont.	Container	7' o.c.	216
Conoclinium coelestinum	Mistflower	1 Gallon Cont.	Container	7' o.c.	216

Mitigation Zone 3 – Forest Enhancement Within Buffer					
60,344 SF / 1.39 AC					
Botanical Name	Common Name	Size	Form	Spacing	Quantity
Trees – 10% (6,034 SF)					
Quercus alba	White Oak	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	9
Quercus phellos	Willow Oak	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	9
Quercus rubra	Northern Red Oak	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	9
Acer rubrum	Red Maple	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	9
Liriodendron tulipifera	Tulip Poplar	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	8
Liquidambar styraciflua	Sweetgum	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	8
Nyssa sylvatica	Black Gum	1–1.5" Cal. / 8–10' Height	B&B / Container	10' o.c.	8
Understory Trees – 20% (12,069 SF)					
Amelanchier canadensis	Serviceberry	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	21
Asimina triloba	Pawpaw	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	20
Cercis canadensis	Eastern Redbud	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	20
Carpinus caroliniana	American Hornbeam	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	20
Chionanthus virginicus	White Fringetree	3/4" Cal. / 5' Height	B&B / Container	10' o.c.	20
Ilex opaca	American Holly	5' Height	B&B / Container	10' o.c.	20
Large Shrubs – 20% (12,069 SF)					
Lindera benzoin	Northern Spicebush	5' Height	#7 Container	7' o.c.	50
Viburnum prunifolium	Blackhaw Viburnum	5' Height	#7 Container	7' o.c.	49
Viburnum dentatum	Southern Arrowwood	5' Height	#7 Container	7' o.c.	49
Hamamelis virginiana	Witch Hazel	5' Height	#7 Container	7' o.c.	49
Vaccinium corymbosum	Highbush Blueberry	5' Height	#7 Container	7' o.c.	49
Small Shrubs – 15% (9,052 SF)					
Clethra alnifolia	Sweet Pepperbush	3' Height	#5 Container	7' o.c.	47
Ilex glabra	Inkberry	3' Height	#5 Container	7' o.c.	46
Aronia arbutifolia	Red Chokeberry	3' Height	#5 Container	7' o.c.	46
Ceanothus americanus	New Jersey Tea	3' Height	#5 Container	7' o.c.	46
Herbaceous – 15% (9,052 SF)					
Polystichum acrostichoides	Christmas Fern	1 Gallon Cont.	Container	7' o.c.	47
Polygonatum pubescens	Solomon's Seal	1 Gallon Cont.	Container	7' o.c.	46
Eurybia divaricata	White Wood Aster	1 Gallon Cont.	Container	7' o.c.	46
Conoclinium coelestinum	Mistflower	1 Gallon Cont.	Container	7' o.c.	46

FOREST ENHANCEMENT PLANTING SCHEDULE NOTES:

- QUANTITIES SHOWN REPRESENT THE TARGET SUPPLEMENTAL PLANTING WITHIN THE FOREST ENHANCEMENT AREA. EXISTING HEALTHY NATIVE VEGETATION AND DESIRABLE NATIVE REGENERATION SHALL REMAIN AND SHALL NOT BE REMOVED TO ACHIEVE THE INDICATED PLANTING DENSITIES.
- PLANT MATERIAL SHALL BE RANDOMLY DISTRIBUTED AND INTERMIXED WITH EXISTING NATIVE VEGETATION. DO NOT INSTALL PLANTS IN STRAIGHT ROWS, REGULAR PATTERNS, OR LARGE SINGLE-SPECIES GROUPINGS.
- SPACING SHOWN IN THE PLANT SCHEDULE REPRESENTS TARGET SPACING FOR QUANTITY CALCULATIONS. FINAL PLANT LOCATIONS SHALL BE FIELD ADJUSTED TO RESPOND TO EXISTING FOREST CONDITIONS, CANOPY GAPS, AREAS RELEASED THROUGH INVASIVE SPECIES TREATMENT, AND DESIRABLE NATIVE VEGETATION TO REMAIN.
- REFER TO FOREST IMPROVEMENT / ENRICHMENT PLANTING AND RANDOM PLANT SPACING DETAILS FOR PLANT DISTRIBUTION AND FIELD INSTALLATION REQUIREMENTS.
- REFER TO INVASIVE SPECIES TREATMENT NOTES AND PROJECT SEQUENCE / SCHEDULE. COMPLETE INITIAL INVASIVE SPECIES TREATMENT PRIOR TO SUPPLEMENTAL PLANTING.

REFORESTATION SCHEDULE – MITIGATION ZONE 4 – ONSITE REFORESTATION					
REFORESTATION AREA: 25,091 SF (0.58 AC) 302 TREES/ACRE 80% OVERSTORY / 20% UNDERSTORY					
SYM	SPECIES	COMMON NAME	STOCK SIZE	QNTY.	STOCK TYPE
BARE ROOT WHIP – OVERSTORY TREE (80%)					
S1	Quercus alba	White Oak	BARE ROOT WHIP	24	FLEXIBLE
S2	Quercus velutina	Northern Black Oak	BARE ROOT WHIP	24	FLEXIBLE
S3	Quercus rubra	Northern Red Oak	BARE ROOT WHIP	24	FLEXIBLE
S4	Prunus serotina	Black Cherry	BARE ROOT WHIP	24	FLEXIBLE
S5	Juglans nigra	Black Walnut	BARE ROOT WHIP	24	FLEXIBLE
S6	Carya glabra	Pignut Hickory	BARE ROOT WHIP	23	FLEXIBLE
S7	Quercus phellos	Willow Oak	BARE ROOT WHIP	23	FLEXIBLE
S8	Quercus bicolor	Swamp White Oak	BARE ROOT WHIP	23	FLEXIBLE
BARE ROOT WHIP – UNDERSTORY TREE (20%)					
U1	Cercis canadensis	Eastern Redbud	BARE ROOT WHIP	24	FLEXIBLE
U2	Diospyros virginiana	Persimmon	BARE ROOT WHIP	23	FLEXIBLE
TOTAL				236	

REFORESTATION SCHEDULE – MITIGATION ZONE 5 – ONSITE REFORESTATION					
REFORESTATION AREA: 9,563 SF (0.22 AC) 302 TREES/ACRE 80% OVERSTORY / 20% UNDERSTORY					
SYM	SPECIES	COMMON NAME	STOCK SIZE	QNTY.	STOCK TYPE
BARE ROOT WHIP – OVERSTORY TREE (80%)					
S1	Quercus alba	White Oak	BARE ROOT WHIP	7	FLEXIBLE
S2	Quercus velutina	Northern Black Oak	BARE ROOT WHIP	7	FLEXIBLE
S3	Quercus rubra	Northern Red Oak	BARE ROOT WHIP	7	FLEXIBLE
S4	Prunus serotina	Black Cherry	BARE ROOT WHIP	7	FLEXIBLE
S5	Juglans nigra	Black Walnut	BARE ROOT WHIP	7	FLEXIBLE
S6	Carya glabra	Pignut Hickory	BARE ROOT WHIP	7	FLEXIBLE
S7	Quercus phellos	Willow Oak	BARE ROOT WHIP	6	FLEXIBLE
S8	Quercus bicolor	Swamp White Oak	BARE ROOT WHIP	6	FLEXIBLE
BARE ROOT WHIP – UNDERSTORY TREE (20%)					
U1	Cercis canadensis	Eastern Redbud	BARE ROOT WHIP	7	FLEXIBLE
U2	Diospyros virginiana	Persimmon	BARE ROOT WHIP	6	FLEXIBLE
TOTAL				67	

REFORESTATION SCHEDULE NOTES:

- REFORESTATION PLANTING SHALL BE INSTALLED AT AN OVERALL STOCKING DENSITY OF APPROXIMATELY 302 PLANTS PER ACRE.
- PLANT MATERIAL SHALL BE GENERALLY INSTALLED AT APPROXIMATELY 12-FOOT BY 12-FOOT SPACING. MINOR FIELD ADJUSTMENTS ARE PERMITTED TO RESPOND TO EXISTING SITE CONDITIONS.
- TREE AND UNDERSTORY TREE SPECIES SHALL BE RANDOMLY INTERMIXED THROUGHOUT THE REFORESTATION AREA. DO NOT INSTALL INDIVIDUAL SPECIES IN CONTINUOUS ROWS OR LARGE SINGLE-SPECIES GROUPINGS.
- PROVIDE APPROXIMATELY 80 PERCENT OVERSTORY TREE SPECIES AND 20 PERCENT UNDERSTORY TREE SPECIES THROUGHOUT THE OVERALL REFORESTATION AREA.
- REFER TO REFORESTATION PLANTING DETAILS AND PROJECT PLANTING NOTES FOR INSTALLATION, PROTECTION, ESTABLISHMENT, AND MAINTENANCE REQUIREMENTS.

Seed Mix for Mitigation Zone 2 – Forest Enhancement		
(282,851 SF / 6.49 AC)		
Seed Mix	Application Rate	Quantity (lbs)
Ernst Seed Mix ERNMX–731 MD Coastal Plain UPL Meadow Mix	20 Lb/Acre	129.9
Seed Mix for Mitigation Zone 3 – Forest Enhancement		
(60,344 SF / 1.39 AC)		
Seed Mix	Application Rate	Quantity (lbs)
Ernst Seed Mix ERNMX–731 MD Coastal Plain UPL Meadow Mix	20 Lb/Acre	27.7
Seed Mix for Mitigation Zone 4 – Onsite Reforestation		
(25,091 SF / 0.58 AC)		
Seed Mix	Application Rate	Quantity (lbs)
Ernst Seed Mix ERNMX–168 Northeast Annual & Perennial Wildflower Mix	10 Lb/Acre	5.8
Seed Mix for Mitigation Zone 5 – Onsite Reforestation		
(9,563 SF / 0.22 AC)		
Seed Mix	Application Rate	Quantity (lbs)
Ernst Seed Mix ERNMX–168 Northeast Annual & Perennial Wildflower Mix	10 Lb/Acre	2.2

BY					
REVISION					
DATE					
NO.					

300 East Joppa Road, Suite 200
Baltimore, MD 21286
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GFT

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 #27734 Expiration Date: 07/12/26

MITIGATION PLANT & SEED SCHEDULES

PHASE II SITE IMPROVEMENT'S BOHEMIA RIVER STATE PARK
THE STATE OF MARYLAND
4030 AUGUSTINE HERMAN HWY
CHESAPEAKE CITY 21915-0000
TAX MAP - 52 GRD - 0012 PARCEL - 0029
ACQUAPAP 21 H&S
DGS PROJECT NO. 234624-1010

DESIGNED:	JDM
DRAWN:	JDM
CHECKED:	RH
SCALE:	AS SHOWN
DATE:	09/16/2026
PROJECT:	2020.0479.07
DRAWING:	

C802