

DEEP CREEK LAKE ARROWHEAD COVE DREDGING AS-BUILT DRAWINGS **FINAL**



March 2025

Prepared for:

Garrett County Government
203 S 4th St #207
Oakland, MD 21550



Prepared by:

Anchor QEA, Inc.
100 Light Street, Suite 1220
Baltimore, MD 21202



Maryland Environmental Service
259 Najoles Road
Millersville, MD 21108



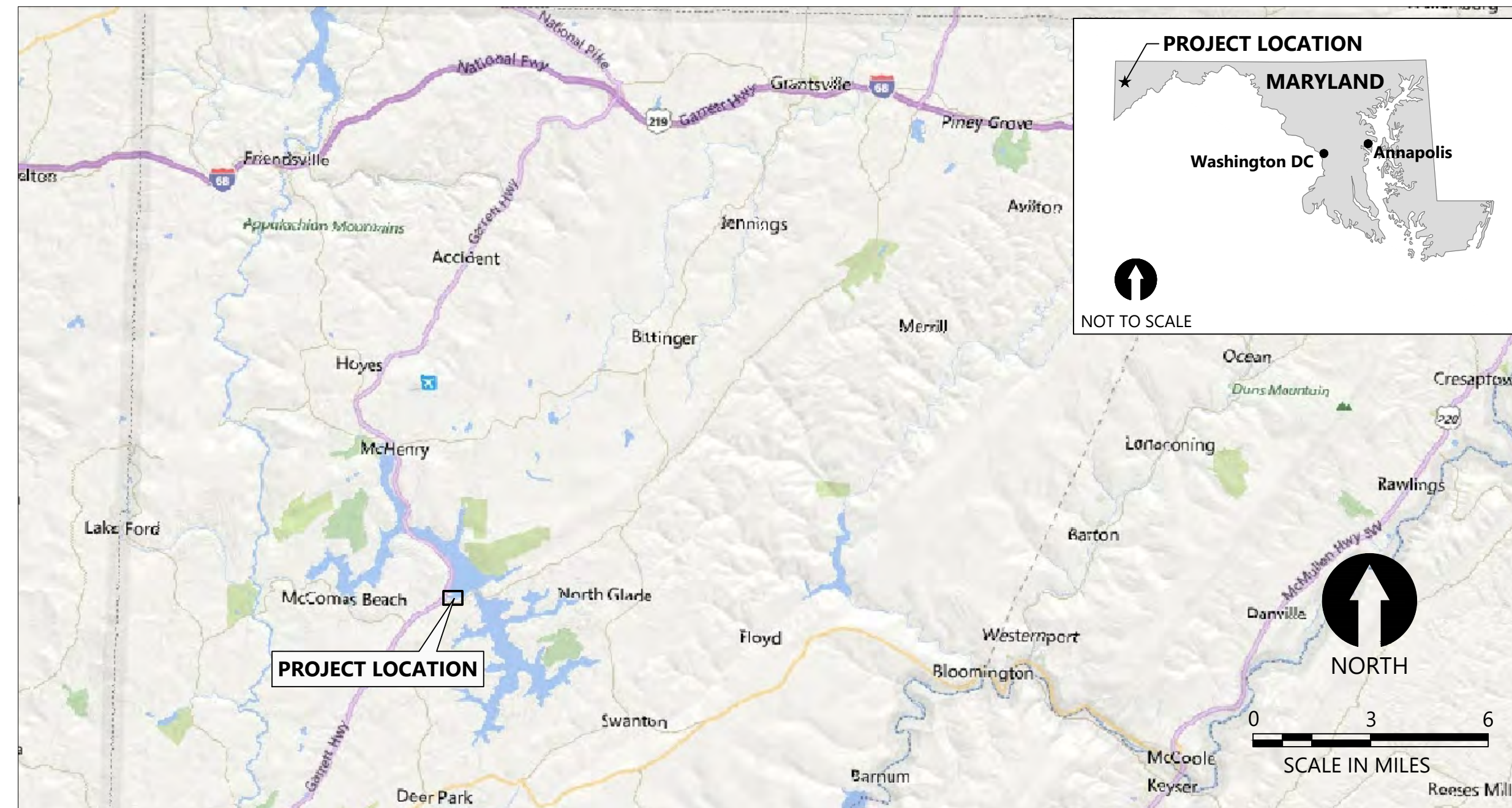
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PROJECT ID NO. 1-23-5-21-5

DEEP CREEK LAKE ARROWHEAD COVE DREDGING

GARRETT COUNTY, MARYLAND



SOURCE: ©2017 Google Earth Pro.

VICINITY MAP

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APPROVAL FOR SEDIMENT CONTROL
GARRETT SOIL CONSERVATION DISTRICT

Chris Herbert
SIGNATURE

Engineering Technician _____ DATE: 07/06/2023

POND APPROVAL: YES NO NA

APPROVAL FOR STORMWATER MANAGEMENT
GARRETT COUNTY STORMWATER MANAGEMENT

SIGNATURE

TITLE

POND APPROVAL: YES NO NA

GP NO.

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN OF EROSION & SEDIMENT CONTROL AND/OR POND DESIGN IS/ARE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND ANY OTHER LOCAL OR STATE REQUIREMENTS. ANY STORMWATER STRUCTURES ARE DESIGNED IN ACCORDANCE WITH THE GARRETT COUNTY STORMWATER MANAGEMENT ORDINANCE AND ACCEPTED STANDARDS OF ENGINEERING PRACTICE.

07/19/2023 DATE 410-794-7783 PHONE NUMBER *Walter Dinicola* ENGINEER'S NAME

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

301-334-8970 Kevin G. Null Garret County Government
PHONE NO. OWNER/DEVELOPER SIGNATURE DATE: 7/19/2023 10:41:54am -04:00

203 South Fourth Street Kevin G. Null, County Administrat
ADDRESS PRINTED NAME & TITLE

K:\Projects\0530-Maryland Environmental Services\Deep Creek Lake Phase 1 Design\AS-Built Plans-April 2024\0530-PL-G-SERIES.dwg T1 Jan 27, 2025 2:40pm cyard



PROFESSIONAL CERTIFICATION
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REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	
1	JUNE-23	GJB	MAR	ESC REVISION SET	
2	OCT-24	CY	MAR	AS-BUILT DRAWINGS	

DESIGNED BY: G. BROWN
DRAWN BY: D. HOLMER
CHECKED BY: M. REEMTS
APPROVED BY: W. DINICOLA
SCALE: AS NOTED
DATE: JUNE 2023

**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

TITLE SHEET

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE"
ONE INCH AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

T1

GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION AND WILL IMMEDIATELY INFORM THE SERVICE OF ANY DISCREPANCIES FOUND BETWEEN THE PROJECT PLANS AND CONTRACT SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL STRICTLY ENFORCE ALL APPLICABLE HEALTH AND SAFETY LAWS (I.E. OSHA) AND MAINTAIN SITE SECURITY.
- CONSTRUCTION KICK-OFF MEETING WITH THE SERVICE, ENGINEER AND REGULATORY AGENCIES IS REQUIRED PRIOR TO ANY ONSITE WORK.
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS WITHIN THE LIMITS OF WORK AND WILL BE RESPONSIBLE FOR DETERMINING APPROPRIATE QUANTITIES AND REQUIRED MATERIALS TO COMPLETE THE WORK.
- CLEARING TO BE LIMITED TO THE LIMIT OF DISTURBANCE AS SHOWN ON THE PLANS. WORK SHOULD LIMIT TREE REMOVAL BY WORKING AROUND EXISTING TREES AS POSSIBLE. TREE PROTECTION FENCING OR BARRICADES MUST BE SET AT THE DRIPLINE OF THE TREE DURING CONSTRUCTION. CONTRACTOR MUST RECEIVE APPROVAL FROM THE SERVICE PRIOR TO REMOVAL OF ANY TREES.
- THE HORIZONTAL DATUM SHALL BE BASED ON MARYLAND STATE PLANE, NAD83, U.S. SURVEY FEET. THE VERTICAL DATUM SHALL BE BASED ON NAVD88. THE HYDROGRAPHIC SURVEY WAS PERFORMED BY CEM SURVEY IN AUGUST 2017. UPLAND TOPOGRAPHY WAS OBTAINED FROM GARRETT COUNTY MARYLAND GIS CATALOG (TOPOGRAPHIC MAPPING UPDATE 2017). SUPPLEMENTAL TOPOGRAPHIC SURVEYS AND TOPOGRAPHIC FEATURES SHOWN HEREON WERE PERFORMED BY MARYLAND ENVIRONMENTAL SERVICE IN DECEMBER 2019 & NOVEMBER 2022.
- CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION OR DREDGING TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
- REPAIR TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE CONTINUING WITH CONSTRUCTION.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT THE SERVICE IMMEDIATELY.
- ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE. DISTURBED AREAS SHALL BE GRADED AND RESTORED TO ORIGINAL CONDITIONS. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- THE CONTRACTOR SHALL OPERATE WITHIN THE NOISE RESTRICTIONS DESCRIBED IN STATE OF MARYLAND COMAR 26.02.03.02.
- ALL SITE ACTIVITIES INCLUDING BUT NOT LIMITED TO CLEARING, DREDGING, DEWATERING, WATER TREATMENT, TRANSPORTATION, AND DISPOSAL, SHALL FOLLOW ALL APPLICABLE PERMITS AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBEY ALL COUNTY HEIGHT, WEIGHT AND UNDERCLEARANCE RESTRICTIONS. VEHICLES TRANSPORTING DEWATERED MATERIAL FROM THE STAGING AREA TO THE FINAL SELECTED DISPOSAL OR INNOVATIVE REUSE LOCATION MUST FOLLOW POSTED SPEED LIMITS, TRAFFIC SIGNS AND SIGNALS, AND ALL COUNTY HEIGHT, WEIGHT AND UNDERCLEARANCE RESTRICTIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION NOT SUPPLIED BY THE SERVICE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: ANY REQUIRED NPDES, CITY OR COUNTY BUILDING PERMITS, OR ROADWAY PERMITS. THE COSTS FOR THE PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRESENCE OF MULTIPLE DATUMS: HISTORICAL SPILLWAY DATUM 2462 AND NAVD88. WATER LEVELS ARE BASED ON AVERAGES FROM THE DEEP CREEK HYDROELECTRIC STATION OPERATING RULE BAND PERMITTED BY MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) MANAGED BY BROOKFIELD RENEWABLE PARTNERS L.P. STATE WATER APPROPRIATION AND USE PERMIT NO. GA19925009(09). BASED ON MULTIPLE SITE SURVEYS AND PUBLICLY SOURCED DATA (USGS) NAVD88 IS ESTIMATED TO BE

APPROXIMATELY 2.0 FEET HIGHER IN ELEVATION THAN THE HISTORICAL SPILLWAY DATUM 2462. ESTABLISHED WATER SURFACE ELEVATION AT ARROWHEAD COVE ON 08/23/2022 AT 9:14AM 2461.58' NAVD88 AND DEEP CREEK LAKE DAM ON 08/23/2022 AT 10:33AM: 2461.50' NAVD88. BROOKFIELD RENEWABLE PARTNERS LLC. RECORDS AN ELEVATION AT 2459.56' HISTORICAL SPILLWAY DATUM 2462

- CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO COMPLY WITH COUNTY, STATE, AND FEDERAL LAWS AND REGULATIONS.
- FLOATING DOCKS TO BE REMOVED BY OTHERS BEFORE CONSTRUCTION.

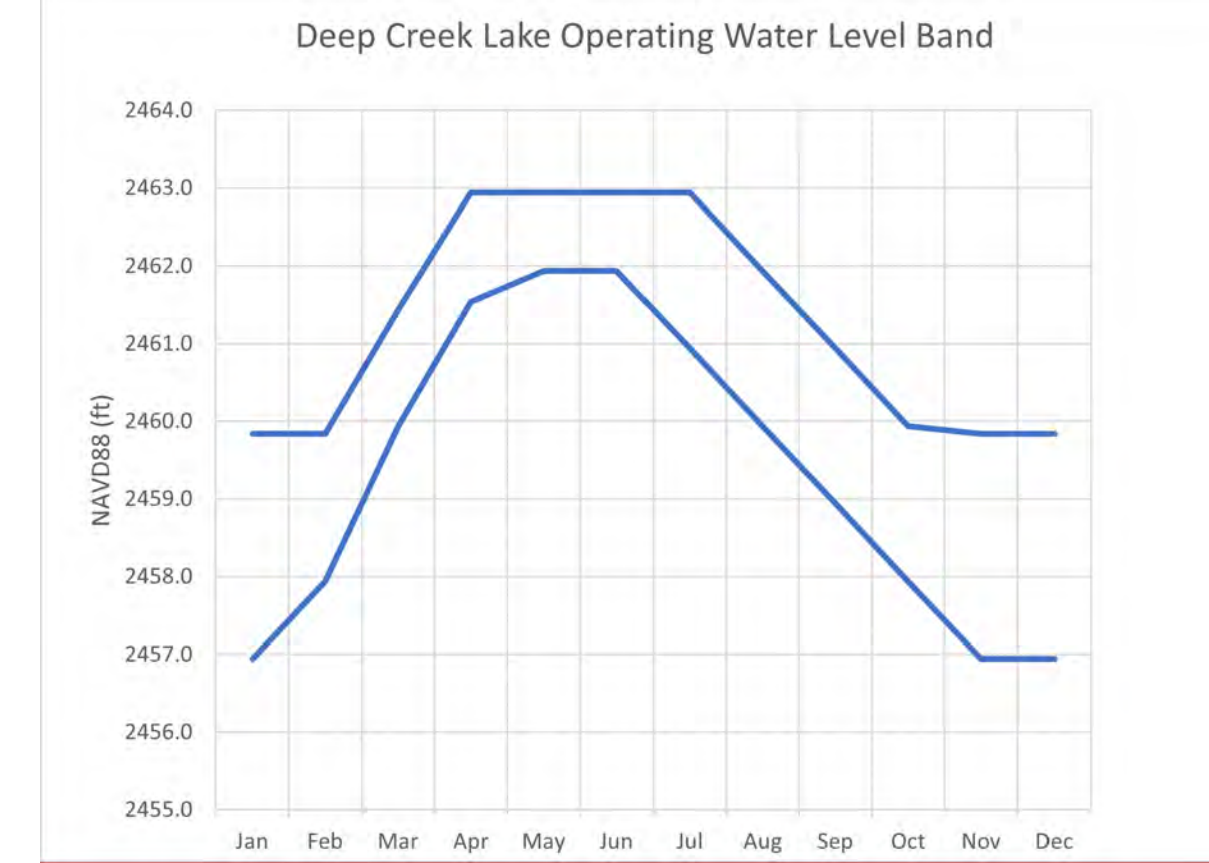
SEQUENCE OF CONSTRUCTION

- THE CONTRACTOR WILL NOTIFY MDE'S COMPLIANCE PROGRAM AT 410-537-3510 A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF ANY EARTH DISTURBANCE ACTIVITY TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR WILL ATTEND CONSTRUCTION KICK-OFF MEETING WITH THE SERVICE, ENGINEER AND REGULATORY AGENCIES PRIOR TO ANY ONSITE WORK.
- FIELD VERIFY ALL UTILITIES AND OTHER STRUCTURES AND FEATURES ALONG THE WORK AREAS. CONTACT MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 48 HOURS PRIOR TO START OF DREDGING OR EXCAVATION.
- CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF PERIMETER EROSION AND SEDIMENTATION CONTROLS.
- INSTALL SILT FENCE SUPER SILT, STABILIZED CONSTRUCTION ENTRANCE/EXIT INCLUDING DITCH CROSSINGS, SITE SECURITY FEATURES (E.G. PRIVACY FENCE AND SECURITY GATE) AND OTHER SEDIMENT CONTROLS. EXISTING UTILITY FEATURES (E.G LIGHT POLES, LAMP POSTS AND PRIVATE SIGNAGE) SHALL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION.
- FOLLOWING INITIAL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH THREE CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3H:1V; AND SEVEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- PERFORM ANY REMAINING CLEARING AND GRUBBING WITHIN INSTALLED PERIMETER CONTROLS. EXISTING FEATURES (E.G. LARGE ROCK/STONE BOULDERS) TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION.
- PERFORM ROADWAY GRADING AND REPAIRS AND CONSTRUCT ADDITIONAL ACCESS ROADS AS NECESSARY.
- PERFORM GRADING FOR THE REMAINDER OF SITE AS REQUIRED FOR USE BY THE CONTRACTOR.
- CONSTRUCT STAGING AREA, WATER CONTROL AND DIVERSION STRUCTURES. CONSTRUCT ADDITIONAL TEMPORARY MAT ACCESS ROUTE AS NECESSARY TO DREDGE AREA.
- MOBILIZE DREDGING AND DEWATERING EQUIPMENT TO THE SITE. : INSTALL WATER DIVERSION STRUCTURES AND ASSOCIATED DEWATERING EQUIPMENT. FILTER AND PUMP OUT RETAINED WATER WITHIN DREDGE AREA.
- PERFORM DREDGING OF SEDIMENT FROM WITHIN THE DREDGING AREA, TRANSPORT THE DREDGED MATERIAL TO THE STAGING AREA AND DEWATER TRANSPORTED MATERIAL. EQUIPMENT WITHIN THE DREDGE AREA MUST BE OPERATED ON TEMPORARY MATS AT ALL TIME.
- MANAGE WATER DIVERSION STRUCTURES, PUMPS, AND WATER COLLECTION FROM DEWATERING SEDIMENT, INCLUDING FILTERING AS NECESSARY FOR DISCHARGE. CONDUCT OFFSITE TRANSPORT OF DEWATERED DREDGED MATERIAL.
- TRANSPORT ALL DEWATERED SEDIMENT TO THE COUNTY LANDFILL LOCATED AT 3118 OAKLAND SANG RUN ROAD, OAKLAND, MD. MATERIAL TO BE USED AS CLEAN LANDFILL COVER AND IS PROCESSED, TREATED, AND USED PER MDE LANDFILL PERMIT REQUIREMENTS.
- DEMOBILIZE THE DREDGING AND DEWATERING EQUIPMENT.
- REMOVE ALL INSTALLED FEATURES WITHIN THE LOD INCLUDING THE TEMPORARY STAGING AREA PADS, ROUTE FEATURES, AND ACCESS ROADWAY IMPROVEMENTS. RESTORE ALL AREAS TO ORIGINAL CONDITIONS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- PERFORM FINAL GRADING, RESTORATION, LANDSCAPING AND STABILIZATION OF ALL DISTURBED AREAS.
- REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE APPROVAL BY APPROPRIATE INSPECTION/ENFORCEMENT IS RECEIVED.

GENERAL LEGEND:

PROPOSED:

- POST-DREDGE BATHYMETRIC CONTOUR IN FEET (NAVD88, 1' INTERVAL)
- SITE ACCESS ROAD
- STAGING AREA
- SAMPLE LOCATION
- EXISTING:
 - 2465 TOPOGRAPHIC CONTOUR IN FEET (NAVD88, INTERVAL VARIES BY DRAWING)
 - 2460 BATHYMETRIC CONTOUR IN FEET (NAVD88, 1' INTERVAL)
 - BUILDING/STRUCTURE
 - PARCEL (GARRETT CO.)
 - ROAD/DRIVEWAY (PRIVATE)
 - ROAD (GARRETT CO.)
 - SHORELINE
 - FLOODPLAIN (100-YEAR)
 - STREAM
 - WATER ELEVATION (2459.5' NAVD88)
 - LOD LIMIT OF DISTURBANCE (LOD)
 - SF SILT FENCE
 - SSF SUPER SILT FENCE
 - RIPRAP
 - UTILITY POLE
 - OHW OVERHEAD WIRE
 - CHAIN LINK FENCE
 - LAMP POST
 - TREE
 - STONES



2011 MARYLAND SOIL AND EROSION CONTROL SYMBOLS:

- FB FILTER BAG
- RPS REMOVABLE PUMPING STATION
- TBD TEMPORARY BARRIER DIVERSION
- SCE STABILIZED CONSTRUCTION ENTRANCE (SCE)

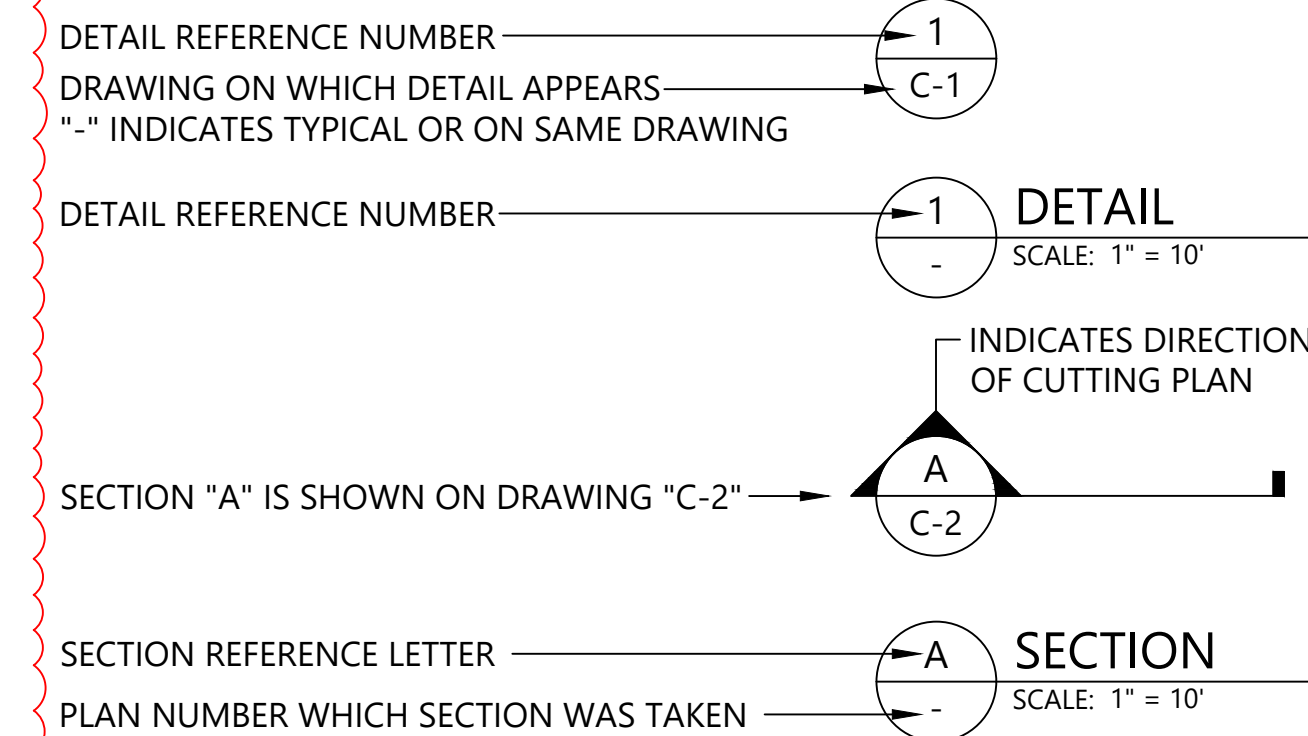
ABBREVIATIONS:

- @ AT
- ° CENTERLINE
- ° DEGREE
- ' FEET
- " INCHES
- ALIGN ALIGNMENT
- AVE AVENUE
- CMP CORRUGATED METAL PIPE
- CONC. CONCRETE
- CONST. CONSTRUCT
- DIA DIAMETER
- DR DRIVE
- DU DREDGE UNIT
- E EAST
- EL ELEVATION
- EXIST. EXISTING
- FT FEET
- H HEIGHT
- HORZ. HORIZONTAL
- ID IDENTIFICATION
- I.D. INSIDE DIAMETER
- IE INVERT ELEVATION
- IP IRON PIPE
- LN LANE
- LR LEFT AND RIGHT
- LF LINEAR FEET
- MAX. MAXIMUM
- MH MANHOLE
- MIN. MINIMUM
- N NORTH
- NE NORTH EAST
- N.T.S. NOT TO SCALE
- OBH OPERATING BAND HIGH
- OBL OPERATING BAND LOW
- OHWL ORDINARY HIGH WATER LINE
- P.C. POINT ON CURVE
- PKWY. PARKWAY
- PVMT. PAVEMENT
- PT POINT OF TANGENCY
- PVC POLYVINYL CHLORIDE
- R RADIUS
- RD ROAD
- RT RIGHT
- S SOUTH
- SDMH STORM DRAIN MANHOLE
- SD STORM DRAIN
- SS SANITARY SEWER
- SSMH SANITARY SEWER MANHOLE
- STA. STATION
- STS. STORM SEWER
- ST STREET
- SW SOUTHWEST
- TYP. TYPICAL
- VAR. VARIES
- VERT. VERTICAL
- VC VERTICAL CURVE
- W WEST

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.
- THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN ALL EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS PERMANENT STABILIZATION OF EXPOSED SOIL OCCURS.
- WHEN THE PROPERTY IS BROUGHT TO FINISHED GRADING DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED STRAW MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY APRIL 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.
- THE SITE'S APPROVED EROSION AND SEDIMENT CONTROL PLANS SHALL BE AVAILABLE AT THE SITE.
- THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATION WHICH MAY BE REQUIRED.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) DAYS AS TO ALL OTHER DISTURBED OR GRADES AREAS ON THE PROJECT SITE.
- THE APPROVAL OF THIS PLAN MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NONEXISTENCE OF ANY UTILITIES AT THIS SITE. IT IS THE RESPONSIBILITY OF THE LANDOWNERS OR OPERATORS AND CONTRACTORS TO ASSURE THAT NO HAZARD EXISTS OR DAMAGE WILL OCCUR TO UTILITIES. IT IS SUGGESTED THAT MISS UTILITY BE CONTACTED AT 1-800-257-7777 EVERY EIGHT (8) BUSINESS DAYS TO COMPLY DURING THE EXCAVATION PERIOD.

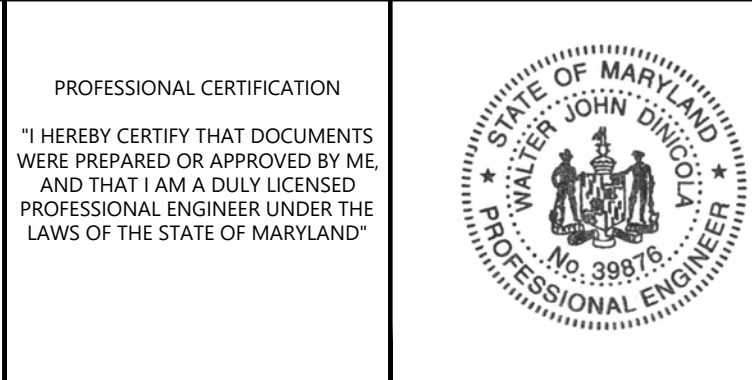
DETAIL AND SECTION REFERENCING:



PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



PROFESSIONAL CERTIFICATION
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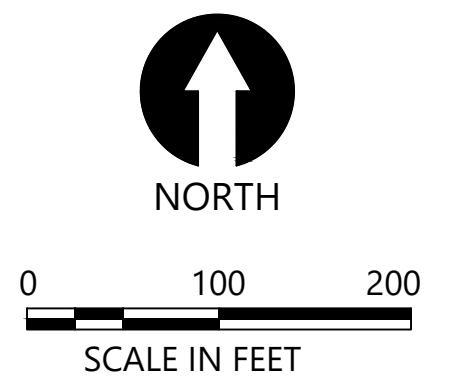
**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

GENERAL NOTES AND ABBREVIATIONS

K:\Projects\0530-Maryland Environmental Services\Deep Creek Lake Phase 1 Design\AS-Built Plans-April 2024\0530-PL-G2.dwg G2
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- LEGEND:
- EXISTING TOPOGRAPHIC CONTOURS (1' INTERVAL)
 - EXISTING BATHYMETRIC CONTOURS (1' INTERVAL)
 - WATER ELEVATION (EL. 2459.5' NAVD88)
 - PARCEL BOUNDARY
 - EXTENT OF DRAWING COVERAGE

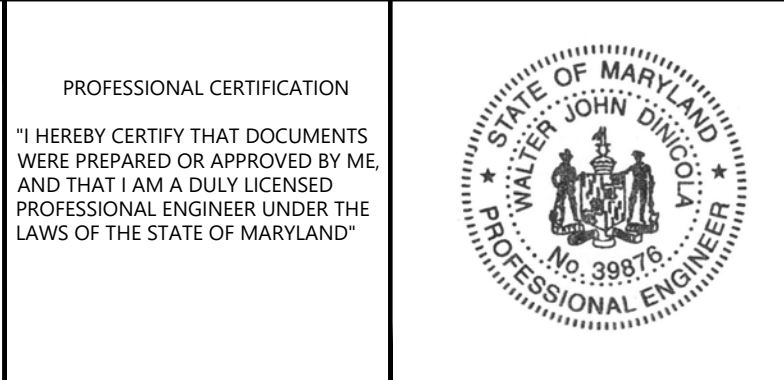


- NOTES:
1. HORIZONTAL DATUM: MARYLAND STATE PLANE, NORTH AMERICAN DATUM OF 1983 (NAD83), U.S. SURVEY FEET
 2. VERTICAL DATUM: NORTH AMERICAN DATUM OF 1988 (NAVD88), FEET
 3. BATHYMETRIC SURVEY DATA PROVIDED BY CEM DATED OCTOBER 2017.
 4. TOPOGRAPHIC SURVEY DATA PROVIDED BY MES DATED DECEMBER 2019, SEPTEMBER 2022, AND AUGUST 2022.
 5. PARCEL AND PROPERTY DATA PROVIDED BY GIS DATATABASE. APPROXIMATE LOCATIONS SHOWN FOR FLOATING DOCKS.
 6. ELEVATION (2461.5' NAVD88) REPRESENTS APPROXIMATE SHORELINE.

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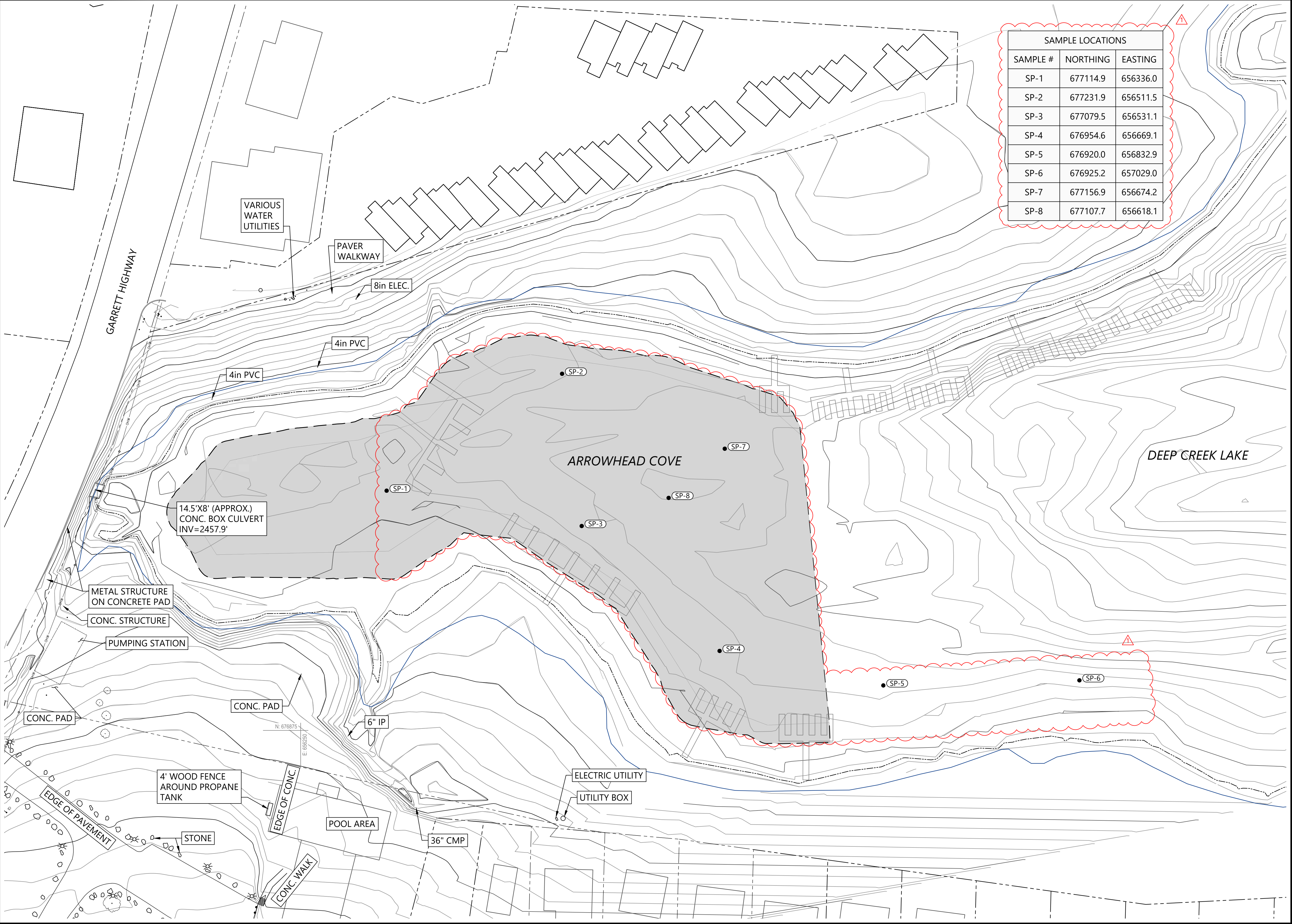
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ARROWHEAD COVE DREDGING**

OVERALL KEY MAP

G2

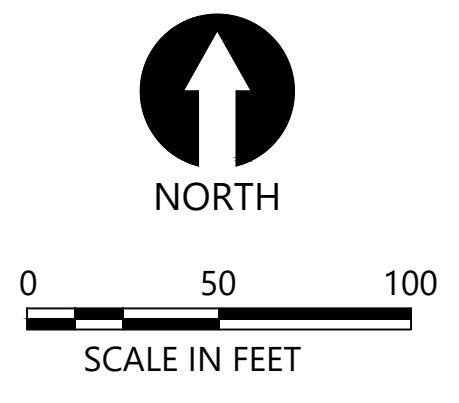
SHEET NO. 3 OF 14

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SAMPLE LOCATIONS		
SAMPLE #	NORTHING	EASTING
SP-1	677114.9	656336.0
SP-2	677231.9	656511.5
SP-3	677079.5	656531.1
SP-4	676954.6	656669.1
SP-5	676920.0	656832.9
SP-6	676925.2	657029.0
SP-7	677156.9	656674.2
SP-8	677107.7	656618.1

- LEGEND:
- EXISTING TOPOGRAPHIC CONTOURS (1' INTERVAL)
 - EXISTING BATHYMETRIC CONTOURS (1' INTERVAL)
 - WATER ELEVATION (2459.5' NAVD88)
 - SHORELINE (APPROXIMATE)
 - FLOODPLAIN (100-YEAR)
 - PARCEL BOUNDARY
 - PROPOSED DREDGE FOOTPRINT
 - SAMPLE LOCATION (SEE TABLE THIS SHEET)
 - LAMP POST
 - OVERHEAD WIRE (OHW)
 - STONE(S)
 - TREE

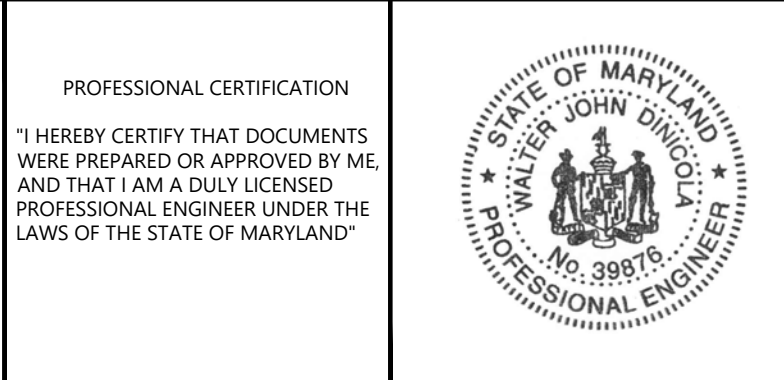


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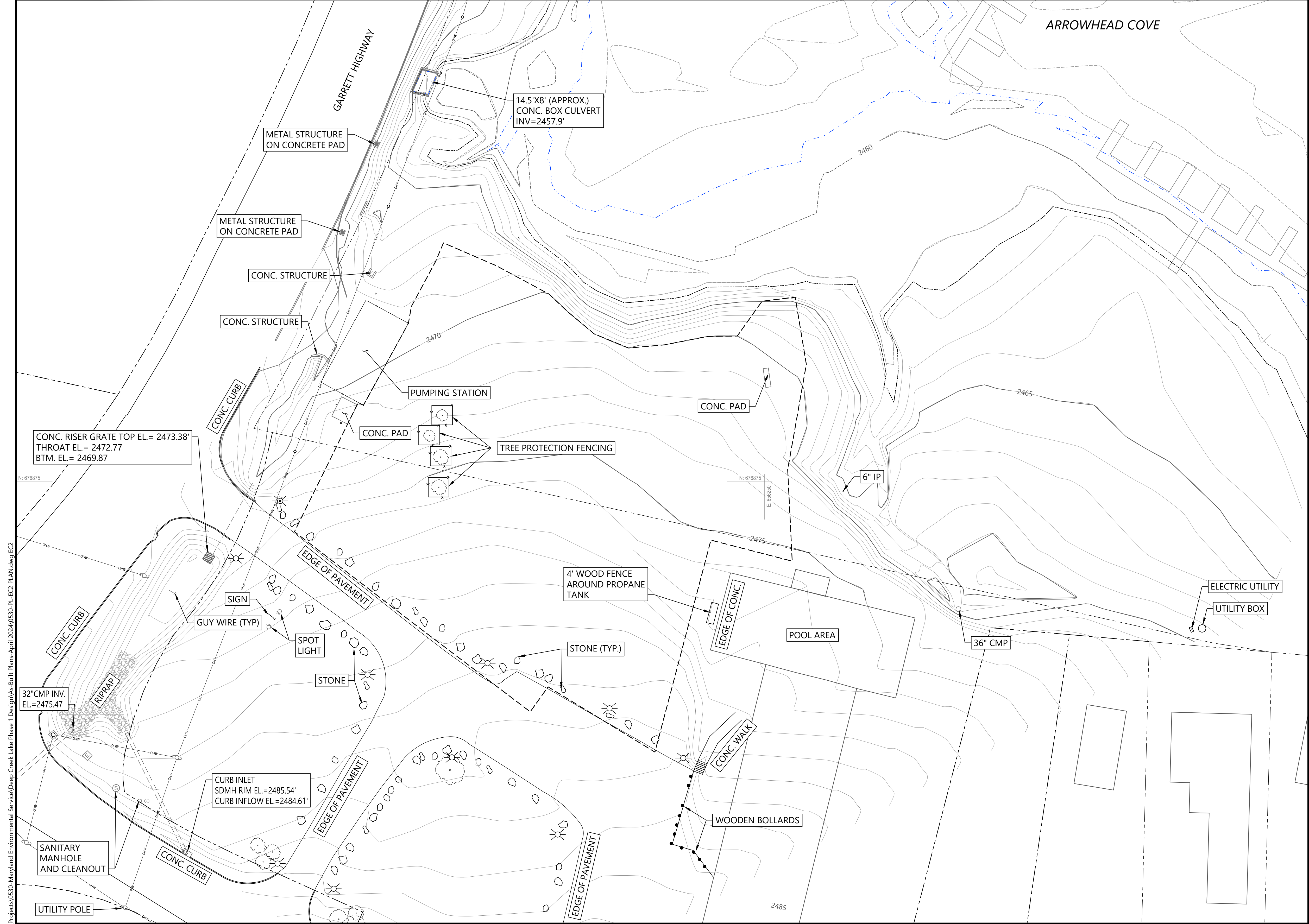
DESIGNED BY: G. BROWN
 DRAWN BY: D. HOLMER
 CHECKED BY: M. REEMTS
 APPROVED BY: W. DINICOLA
 SCALE: AS NOTED
 DATE: JUNE 2023

**DEEP CREEK LAKE
 ARROWHEAD COVE DREDGING**

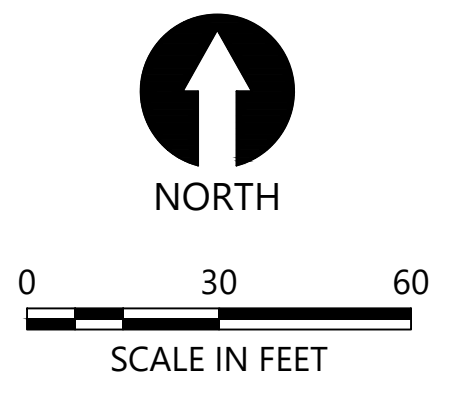
**EXISTING CONDITIONS AND
 SEDIMENT CORE LOCATIONS**

EC1

SHEET NO. 4 OF 14



- LEGEND:
- EXISTING TOPOGRAPHIC CONTOURS (1' INTERVAL)
 - EXISTING BATHYMETRIC CONTOURS (1' INTERVAL)
 - WATER ELEVATION (EL. 2459.5' NAVD88)
 - SHORELINE (APPROXIMATE)
 - STAGING AREA (APPROXIMATE)
 - OVERHEAD UTILITIES (EXISTING)
 - STREAM
 - WETLAND AREA AND DESIGNATION
 - STREAM BUFFER
 - WETLAND BUFFER
 - CRITICAL ROOT ZONE
 - WHITE PINE LOCATION AND DESIGNATION
 - LAMP POST
 - OVERHEAD WIRE (OHW)
 - STONE(S)
 - TREE
 - TREE PROTECTION



- NOTES:
1. HORIZONTAL DATUM: MARYLAND STATE PLANE, NORTH AMERICAN DATUM OF 1983 (NAD83), U.S. SURVEY FEET
 2. VERTICAL DATUM: NORTH AMERICAN DATUM OF 1988 (NAVD88), FEET
 3. BATHYMETRIC SURVEY DATA PROVIDED BY CEM DATED OCTOBER 2017.
 4. TOPOGRAPHIC SURVEY DATA PROVIDED BY MES DATED DECEMBER 2019, SEPTEMBER 2022, AND AUGUST 2022.
 5. PARCEL AND PROPERTY DATA PROVIDED BY GIS DATABASE. APPROXIMATE LOCATIONS SHOWN FOR FLOATING DOCKS.
 6. ELEVATION (2461.5' NAVD88) REPRESENTS APPROXIMATE SHORELINE (8/23/22).
 7. UNKNOWN PVC IDENTIFIED DURING TOPOGRAPHIC SURVEY PROVIDED BY MES DATED DECEMBER 2019.

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY.

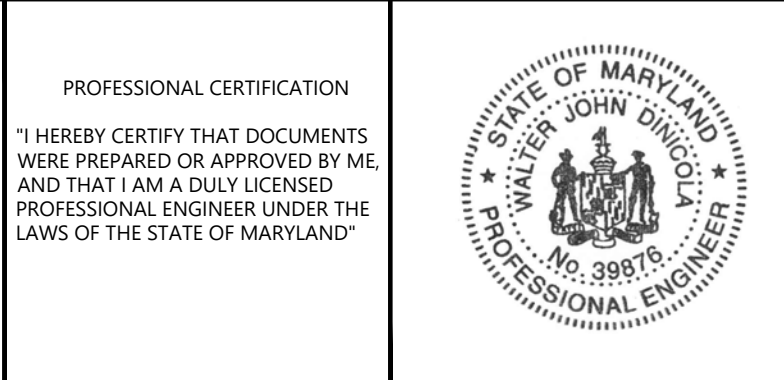
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Jan 27, 2025 2:41pm cyard



PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"



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2	OCT-24	CY	MAR	AS-BUILT DRAWINGS	

DESIGNED BY: G. BROWN

DRAWN BY: D. HOLMER

CHECKED BY: M. REEMTS

APPROVED BY: W. DINICOLA

SCALE: AS NOTED

DATE: JUNE 2023

**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

STAGING AREA EXISTING CONDITIONS

EC2

SHEET NO. 5 OF 14

K:\Projects\0530-Maryland Environmental Services\Deep Creek Lake Phase 1 Design\AS-Built Plans-April 2024\0530-PL-AC PLAN.dwg AC1
Jan 27, 2023 2:41pm cyrd

ESTIMATED GARRETT SOIL CONSERVATION DISTRICT QUANTITIES	
ESTIMATED AREA OF DISTURBANCE	54,624 SF
TEMPORARY IMPERVIOUS SURFACE AREA	19,771 SF
ESTIMATED CUT (2475' ELEVATION)	3,037 CY
ESTIMATED FILL (2475' ELEVATION)	2,915 CY
TOTAL CUT/FILL (2475' ELEVATION)	122 CY



- LEGEND:**
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 - EXISTING BATHYMETRIC CONTOURS (1' INTERVAL)
 - WATER ELEVATION (EL. 2459.5' NAVD88)
 - SHORELINE (APPROXIMATE)
 - PARCEL BOUNDARY
 - DNR BUFFER (50-FT)
 - STAGING AREA (APPROXIMATE)
 - SF SILT FENCE
 - SSF SUPER SILT FENCE
 - PRIVACY FENCE
 - OVERHEAD UTILITIES (EXISTING)
 - PROPOSED DREDGE FOOTPRINT
 - PROPOSED ENTRANCE/EXIT ROAD
 - TEMPORARY MAT ACCESS ROAD TO DREDGE AREA
 - PROPOSED STAGING AREA
 - RESTORED STAGING AREA CONTOUR



NORTH
0 30 60
SCALE IN FEET

- NOTES:**
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 5. PARCEL AND PROPERTY DATA PROVIDED BY GIS DATATYPE. APPROXIMATE LOCATIONS SHOWN FOR FLOATING DOCKS.
 6. ELEVATION (2461.5' NAVD88) REPRESENTS APPROXIMATE SHORELINE.
 7. CONTRACTOR REQUIRED TO MANAGE TEMPORARY CRANE MAT ROADWAYS AS NEEDED FOR DREDGING ACCESS WITHIN THE DREDGE FOOTPRINT.
 8. EXISTING FEATURES TO BE RETAINED WHERE POSSIBLE.
 9. CONTRACTOR REQUIRED TO PROVIDE GRADING PLAN WILL RETURN AREA TO EXISTING CONDITIONS AND GRADE PRIOR TO CONSTRUCTION.
 10. STAGING AND STOCKPILE AREA TO BE PRIVACY FENCED.
 11. STABILIZED CONSTRUCTION ENTRANCE DETAIL B-1, REFERENCED ON DRAWING SC4.
 12. TYPICAL CONSTRUCTION ACCESS ROAD, STOCKPILE AND DEWATERING AREA AND STAGING AREA DETAIL A, B AND C REFERENCED ON DRAWING SC1.
 13. STAGING AREA SECURITY MEASURES TO BE MANAGED AND IMPLEMENTED BY CONTRACTOR.

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



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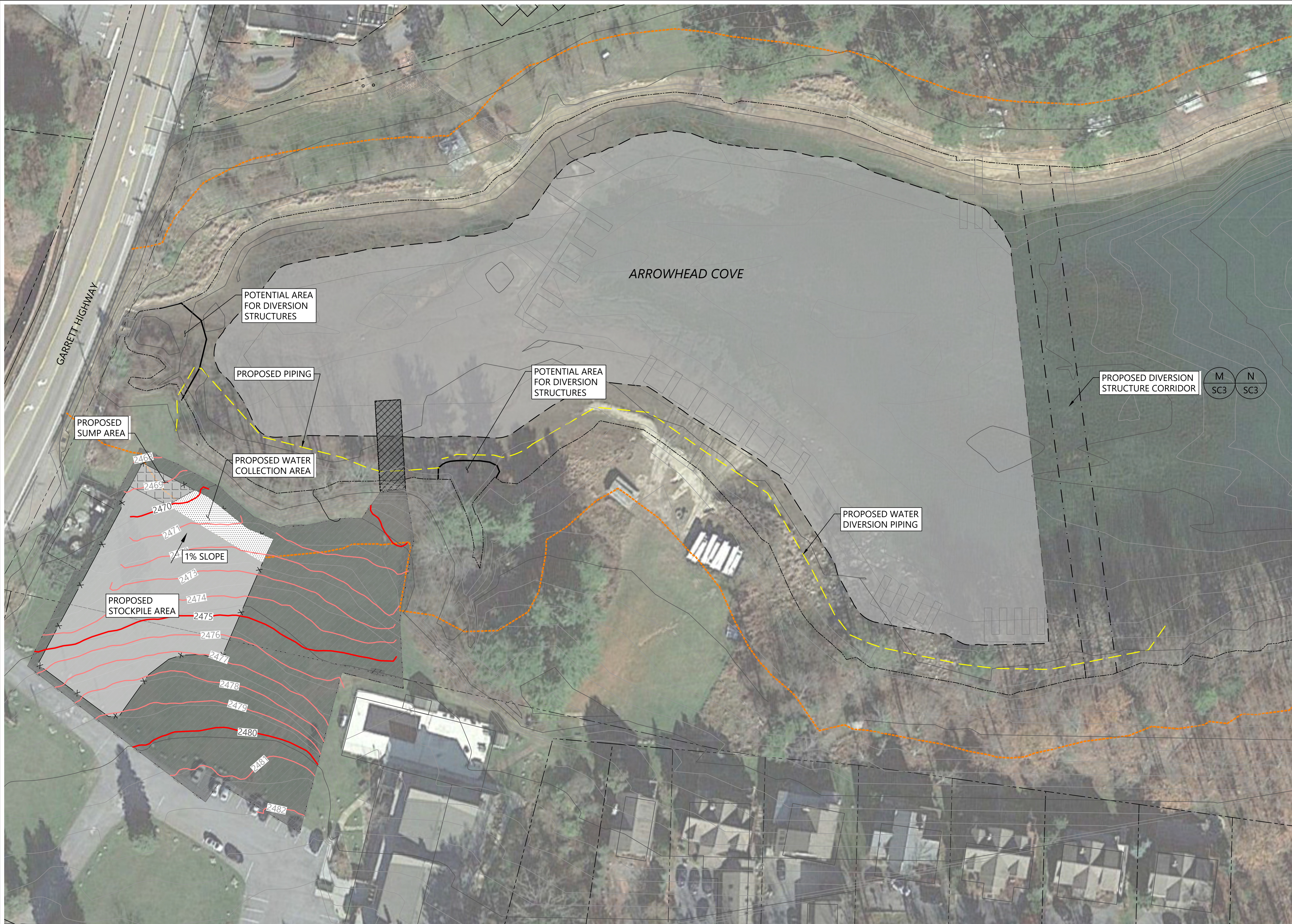
**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

**STAGING AREA LAYOUT, CONSTRUCTION ACCESS;
SOIL EROSION AND SEDIMENT CONTROLS**

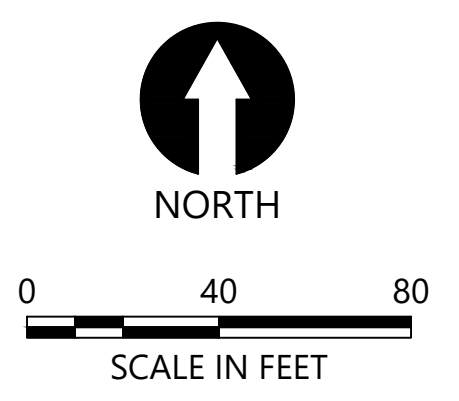
AC1

SHEET NO. 6 OF 14

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Jan 27, 2025 2:41pm cyard



- LEGEND:**
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 - EXISTING BATHYMETRIC CONTOURS (1' INTERVAL)
 - WATER ELEVATION (EL. 2459.5' NAVD88)
 - SHORELINE (APPROXIMATE)
 - PARCEL BOUNDARY
 - DNR BUFFER (50-FT)
 - STAGING AREA (APPROXIMATE)
 - PROPOSED WATER DIVERSION PIPING
 - SILT FENCE
 - SUPER SILT FENCE
 - PRIVACY FENCE
 - OVERHEAD UTILITIES (EXISTING)
 - PROPOSED DREDGE FOOTPRINT
 - PROPOSED ENTRANCE/EXIT ROAD
 - TEMPORARY MAT ACCESS ROAD TO DREDGE AREA
 - PROPOSED STAGING AREA
 - RESTORED STAGING AREA CONTOUR

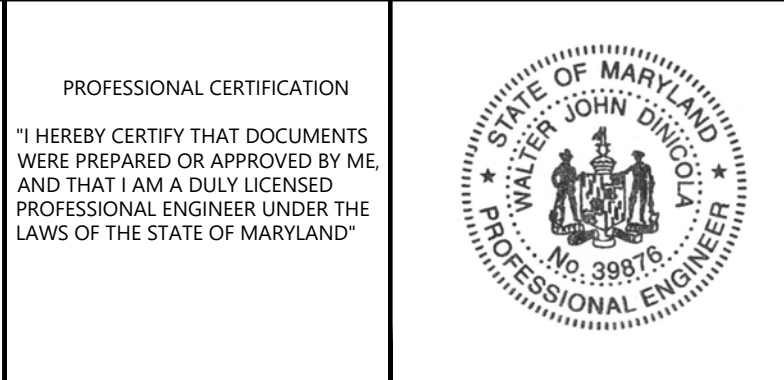


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 7. CONTRACTOR REQUIRED TO MANAGE TEMPORARY CRANE MAT ROADWAYS AS NEEDED FOR DREDGING ACCESS WITHIN THE DREDGE FOOTPRINT.
 8. EXISTING FEATURES TO BE RETAINED WHERE POSSIBLE.
 9. DIVISION STRUCTURE DETAILS AND DIVERSION BARRIER ARE FOUND ON SHEET SC3. SEE DETAIL M, N AND C-6.
 10. STOCKPILE AND DEWATERING AREA TO SLOPE AT 1% GRADE TOWARD SUMP OR WATER COLLECTION AREA.

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**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

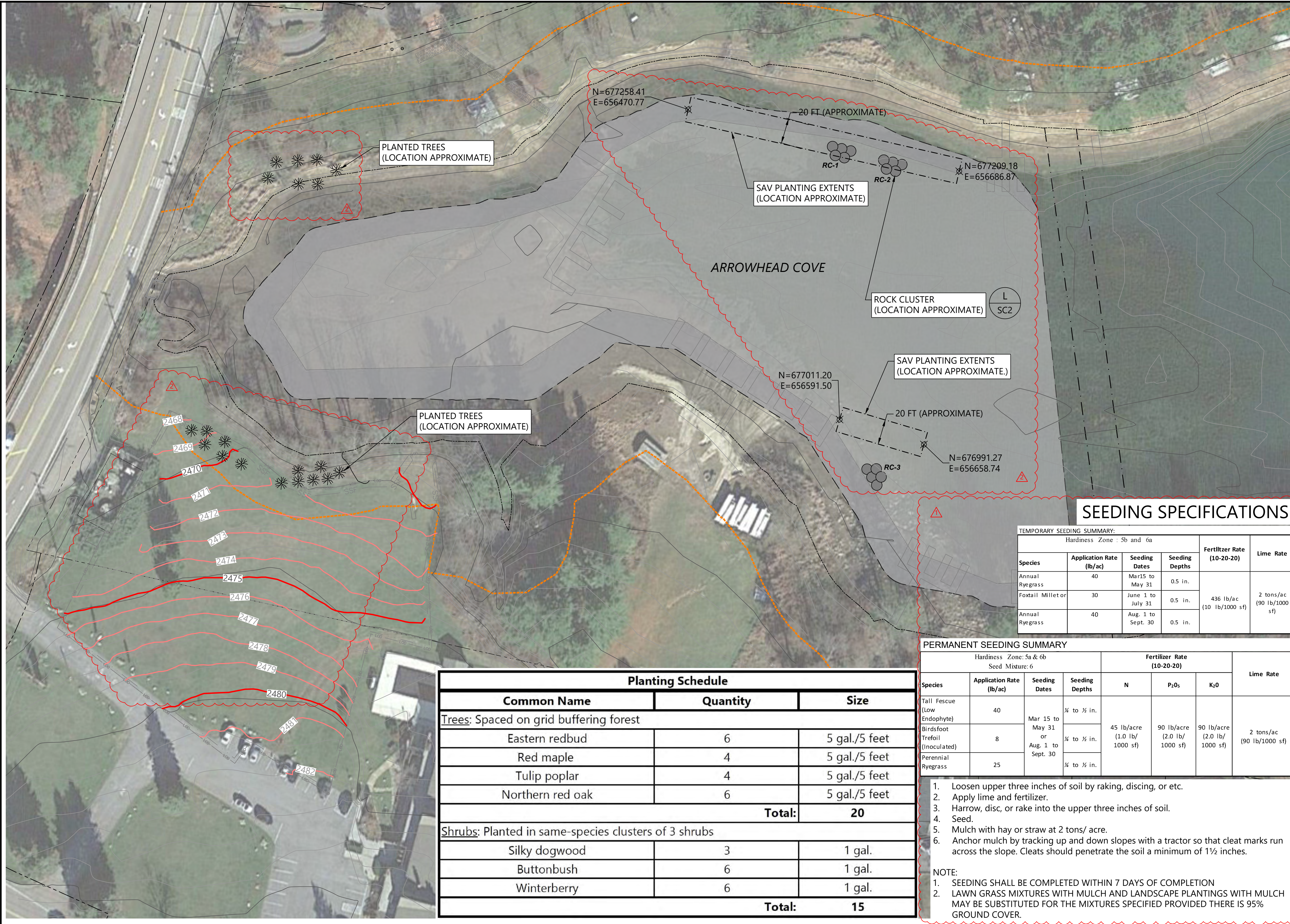
WATER MANAGEMENT STRUCTURES

AC2

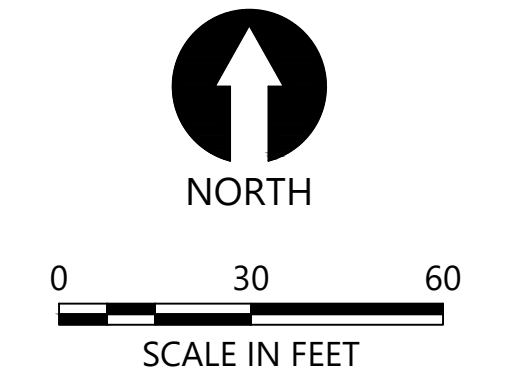
SHEET NO. 7 OF 14

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Jan 27, 2025 2:41pm cyrd



- LEGEND:**
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 - WATER ELEVATION (EL. 2459.5' NAVD88)
 - - - - - SHORELINE (APPROXIMATE)
 - - - - - PARCEL BOUNDARY
 - DNR BUFFER (50-FT)
 - - - - - STAGING AREA (APPROXIMATE)
 - OVERHEAD UTILITIES (EXISTING)
 - PROPOSED DREDGE FOOTPRINT
 - - - - - ACCESS RESTORATION AREA
 - GRASS RESEEDING AREA
 - RESTORED STAGING AREA CONTOUR
 - ✱ PLANTED TREES (APPROXIMATE)
 - - - - - SAV PLANTING EXTENTS (APPROXIMATE)



SEEDING SPECIFICATIONS

TEMPORARY SEEDING SUMMARY:

Hardiness Zone : 5b and 6a				Fertilizer Rate (10-20-20)	Lime Rate
Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths		
Annual Ryegrass	40	Mar 15 to May 31	0.5 in.	436 lb/ac (10 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
Foxtail Millet or	30	June 1 to July 31	0.5 in.		
Annual Ryegrass	40	Aug. 1 to Sept. 30	0.5 in.		

PERMANENT SEEDING SUMMARY

Hardiness Zone: 5a & 6b				Fertilizer Rate (10-20-20)			Lime Rate
Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ O	
Tall Fescue (Low Endophyte)	40	Mar 15 to May 31	½ to ¾ in.	45 lb/acre (1.0 lb/1000 sf)	90 lb/acre (2.0 lb/1000 sf)	90 lb/acre (2.0 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)
Birdsfoot Trefoil (Inoculated)	8	or Aug. 1 to Sept. 30	½ to ¾ in.				
Perennial Ryegrass	25		½ to ¾ in.				

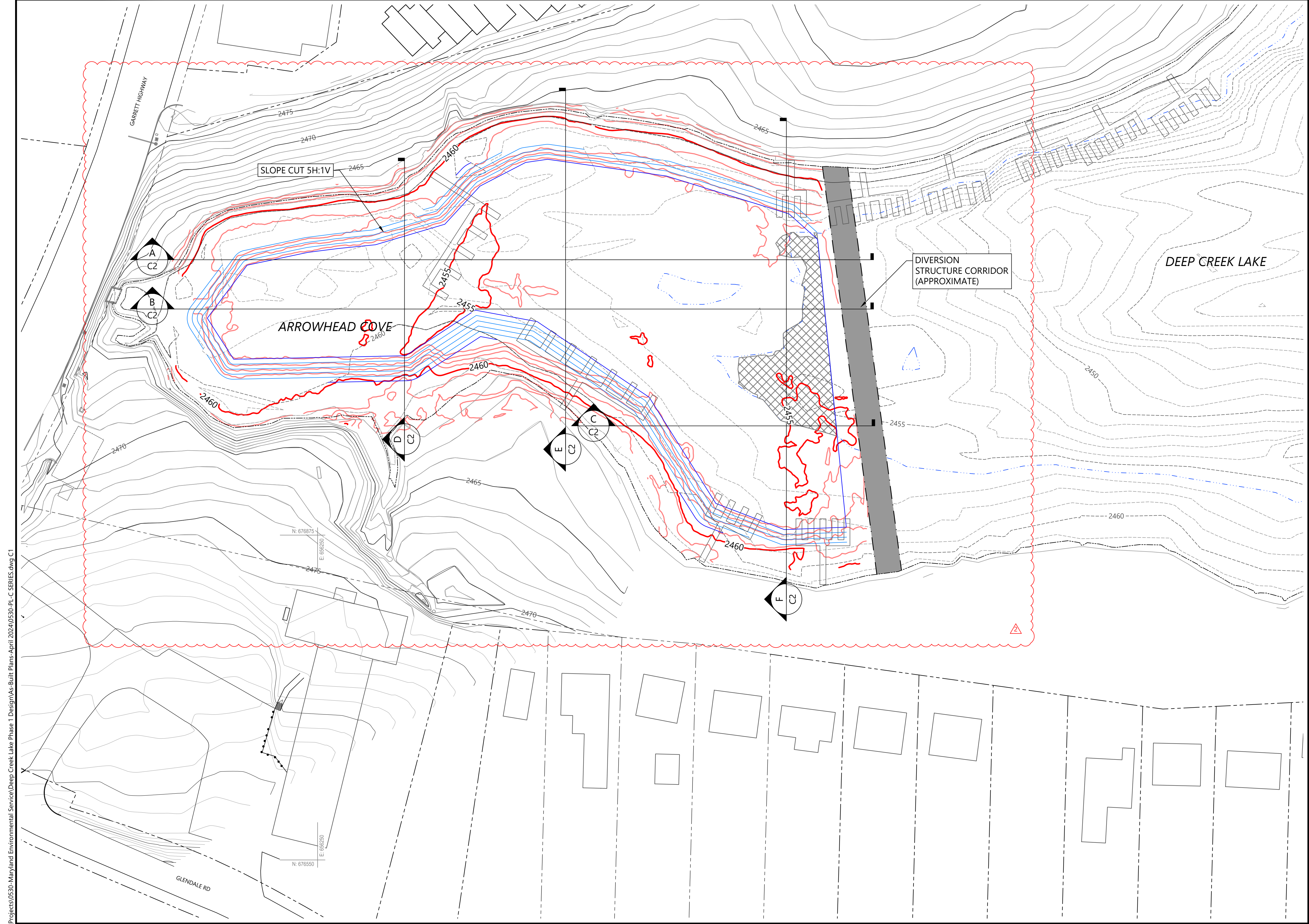
- Loosen upper three inches of soil by raking, discing, or etc.
 - Apply lime and fertilizer.
 - Harrow, disc, or rake into the upper three inches of soil.
 - Seed.
 - Mulch with hay or straw at 2 tons/ acre.
 - Anchor mulch by tracking up and down slopes with a tractor so that cleat marks run across the slope. Cleats should penetrate the soil a minimum of 1½ inches.
- NOTE:
- SEEDING SHALL BE COMPLETED WITHIN 7 DAYS OF COMPLETION
 - LAWN GRASS MIXTURES WITH MULCH AND LANDSCAPE PLANTINGS WITH MULCH MAY BE SUBSTITUTED FOR THE MIXTURES SPECIFIED PROVIDED THERE IS 95% GROUND COVER.

Planting Schedule		
Common Name	Quantity	Size
Trees: Spaced on grid buffering forest		
Eastern redbud	6	5 gal./5 feet
Red maple	4	5 gal./5 feet
Tulip poplar	4	5 gal./5 feet
Northern red oak	6	5 gal./5 feet
Total:		20
Shrubs: Planted in same-species clusters of 3 shrubs		
Silky dogwood	3	1 gal.
Buttonbush	6	1 gal.
Winterberry	6	1 gal.
Total:		15

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 - ELEVATION (2461.5' NAVD88) REPRESENTS APPROXIMATE SHORELINE.
 - REMOVE ALL EQUIPMENT AND MATERIALS FROM UPLAND RESTORATION AREA AND ACCESS RESTORATION AREAS.
 - REGRADE UPLAND RESTORATION AREA TO PRECONSTRUCTION CONDITIONS AND RESEED WITH GRASS ACCORDING TO PERMANENT SEEDING SPECIFICATIONS.
 - RESTORATION DETAILS ARE FOUND ON SHEET SC2. SEE DETAILS H, J, K, L AND I.

PLAN INTENDED TO BE VIEWED AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY

		<p>PROFESSIONAL CERTIFICATION</p> <p>"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND"</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>APP'D</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>JUNE-23</td> <td>GJB</td> <td>MAR</td> <td>ESC REVISION SET</td> </tr> <tr> <td>2</td> <td>OCT-24</td> <td>CY</td> <td>MAR</td> <td>AS-BUILT DRAWINGS</td> </tr> </tbody> </table>	REV	DATE	BY	APP'D	DESCRIPTION	1	JUNE-23	GJB	MAR	ESC REVISION SET	2	OCT-24	CY	MAR	AS-BUILT DRAWINGS	<p>DESIGNED BY: G. BROWN</p> <p>DRAWN BY: D. HOLMER</p> <p>CHECKED BY: M. REEMTS</p> <p>APPROVED BY: W. DINICOLA</p> <p>SCALE: AS NOTED</p> <p>DATE: JUNE 2023</p>	<p align="center">DEEP CREEK LAKE ARROWHEAD COVE DREDGING</p>	<p align="center">AC3</p>
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<p>RESTORATION PLAN</p>		<p>SHEET NO. 8 OF 14</p>																			



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 - - - EXISTING BATHYMETRIC CONTOURS (1' INTERVAL)
 - WATER ELEVATION (EL. 2456.0', OBL)
 - - - SHORELINE (APPROXIMATE)
 - PROPOSED DREDGE CONTOURS (1' INTERVAL)
 - POST DREDGE CONTOURS (1' INTERVAL)
 - ▣ NO REMOVAL

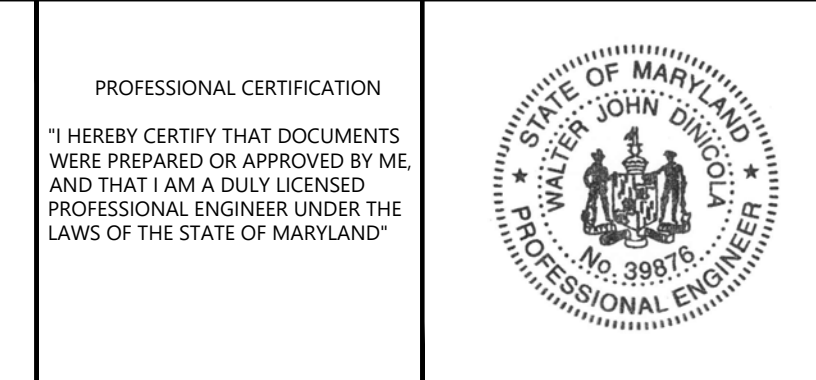
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 7. WATER ELEVATION DURING CONSTRUCTION ANTICIPATED TO MEET OPERATING HIGH BAND (OHB) ELEVATION OF 2460.9' NAVD88 OR LOWER.
 8. CONSTRUCTION EQUIPMENT WITHIN COVE AND LAKE EXTENTS MUST OPERATE ON TEMPORARY MATS AT ALL TIMES.

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY.

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 Jan 27, 2025 2:42pm cyrd



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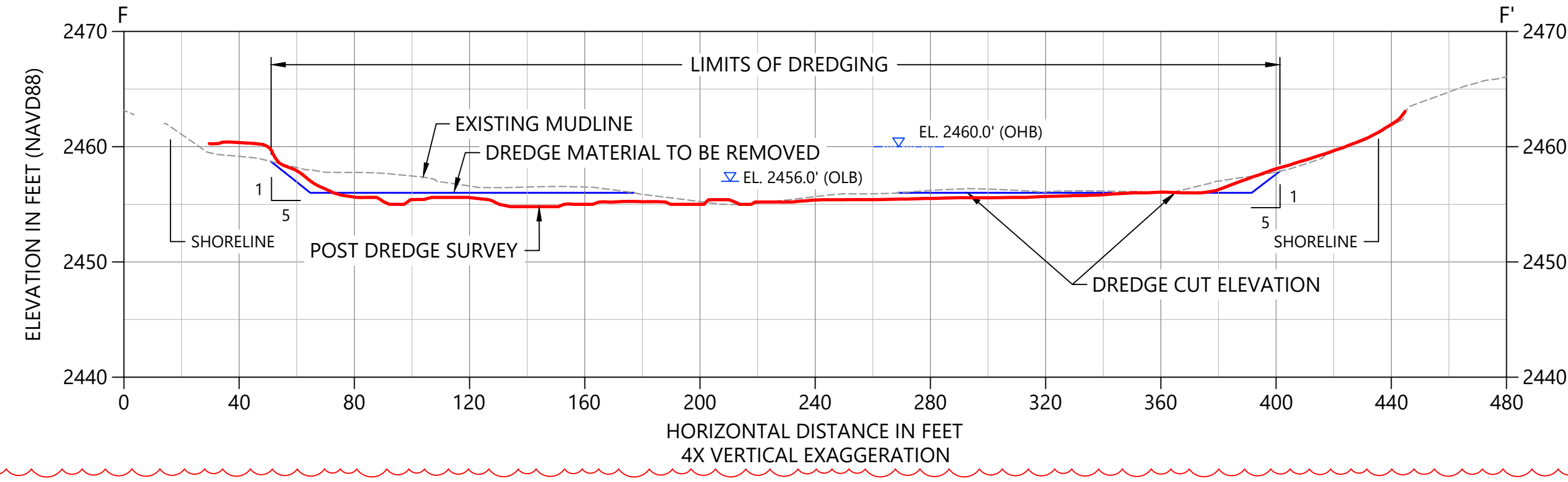
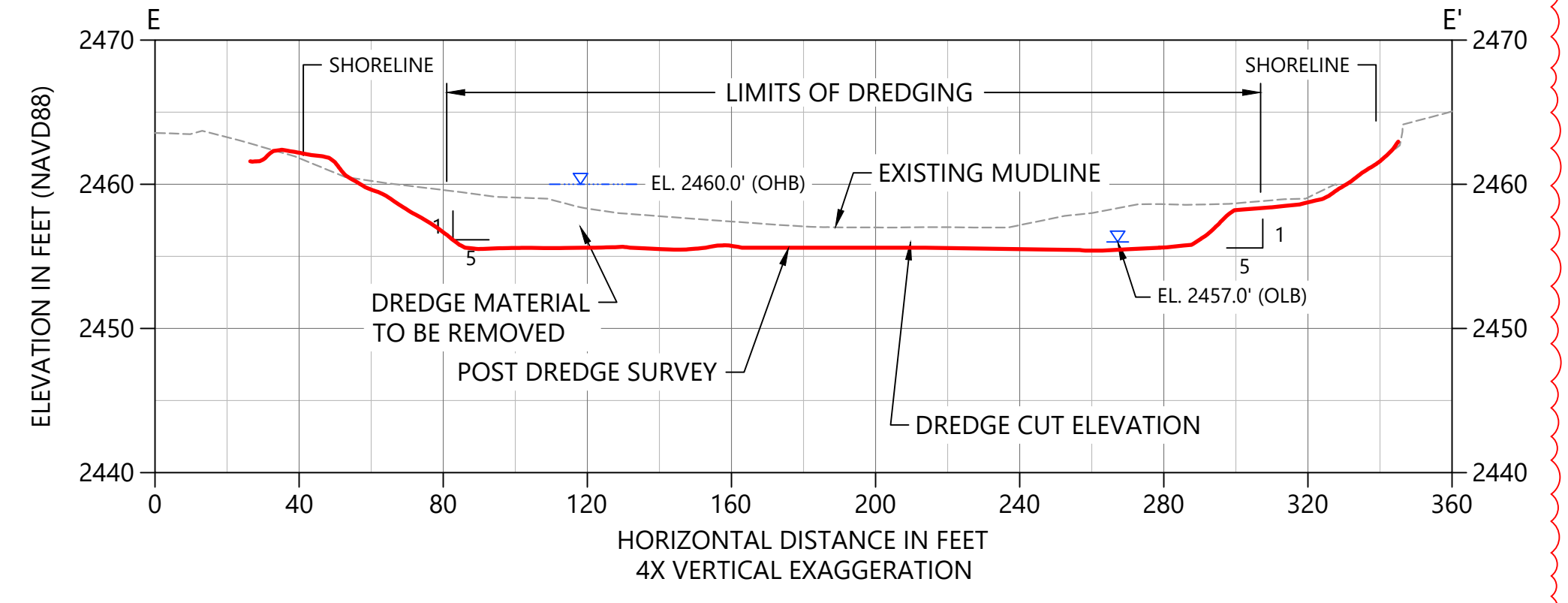
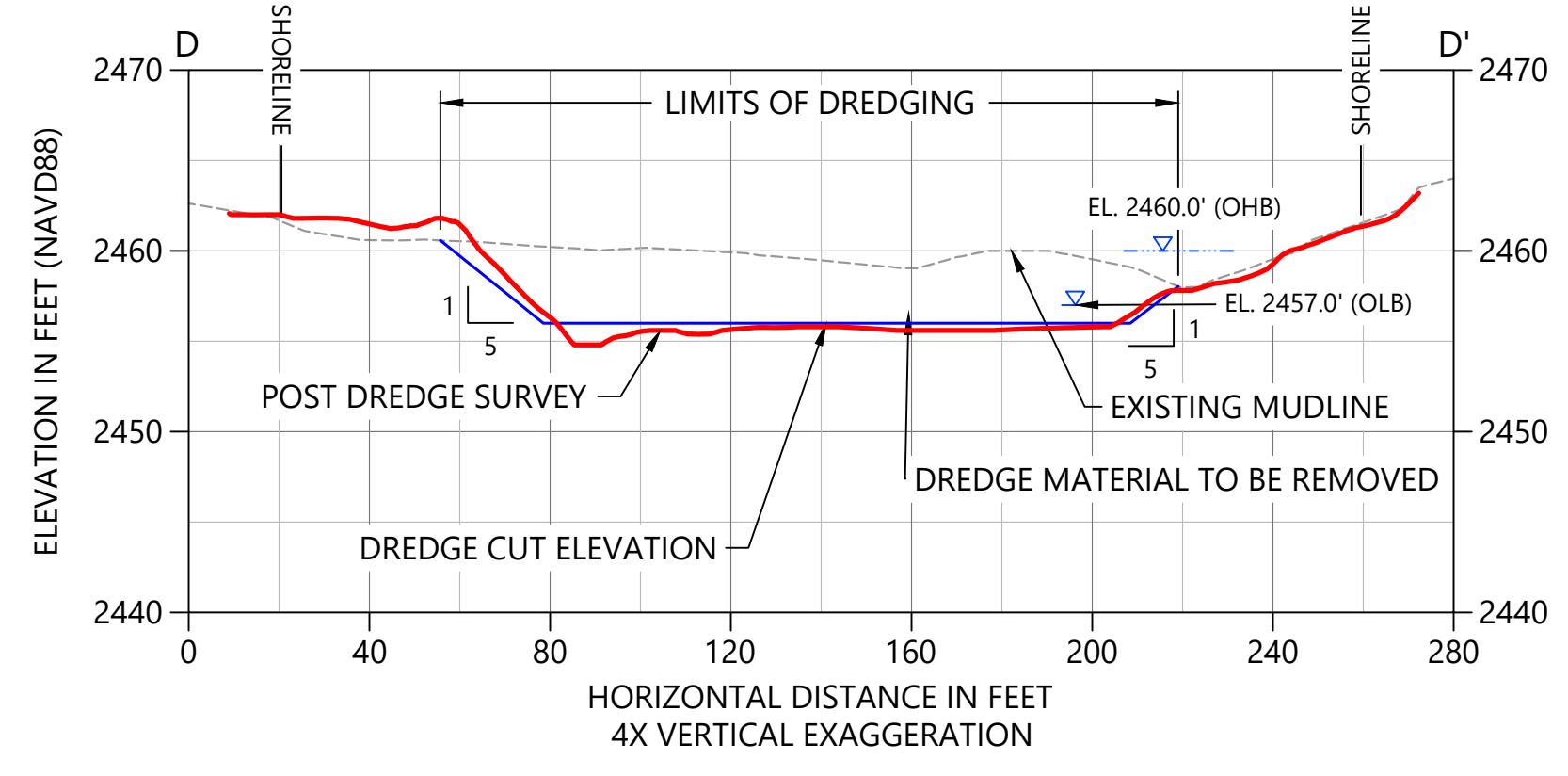
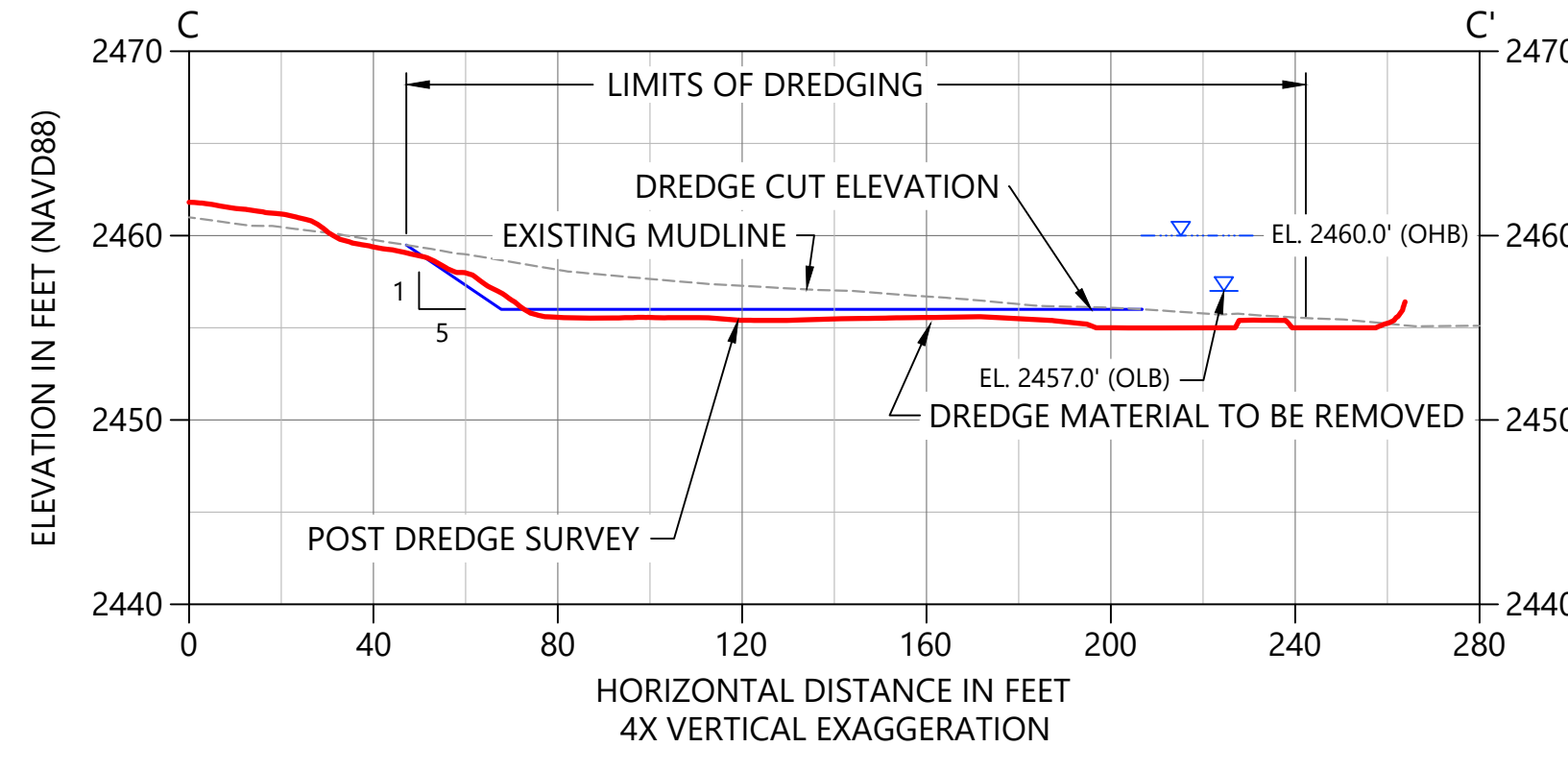
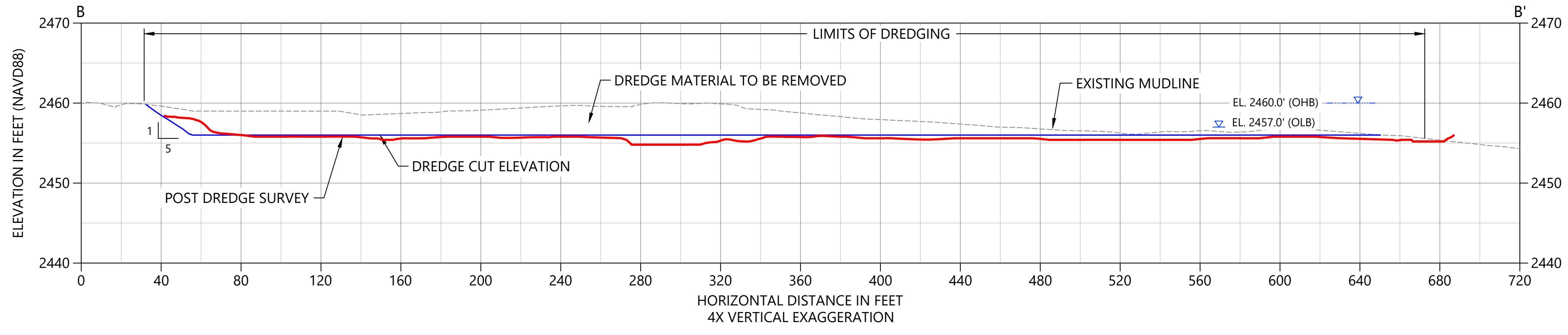
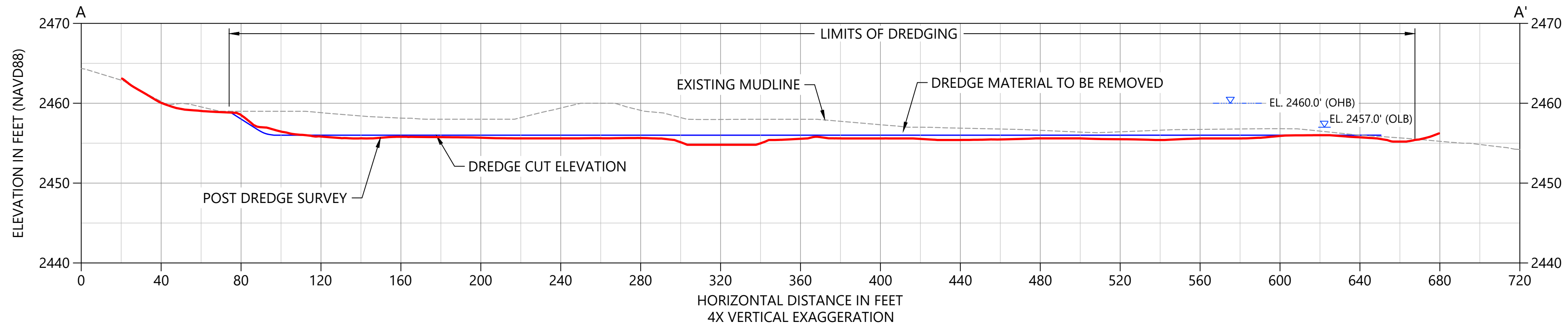
**DEEP CREEK LAKE
 ARROWHEAD COVE DREDGING**

DREDGE PLAN

C1

SHEET NO. 9 OF 14

1-19-3-94-3

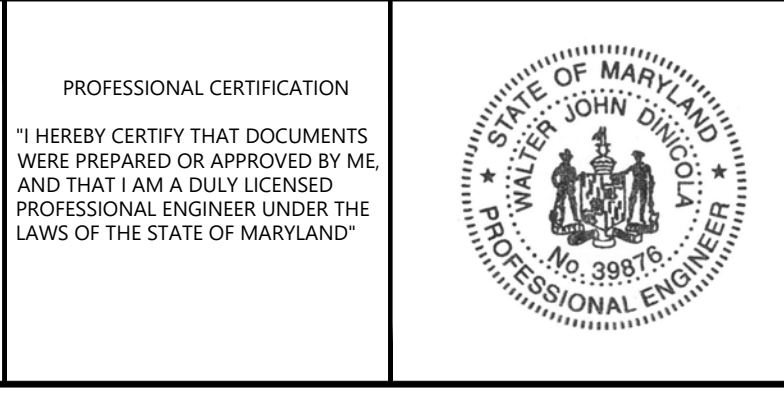


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MARYLAND ENVIRONMENTAL SERVICE
ARROWHEAD COVE, DEEP CREEK LAKE
PHASE 1 DESIGN

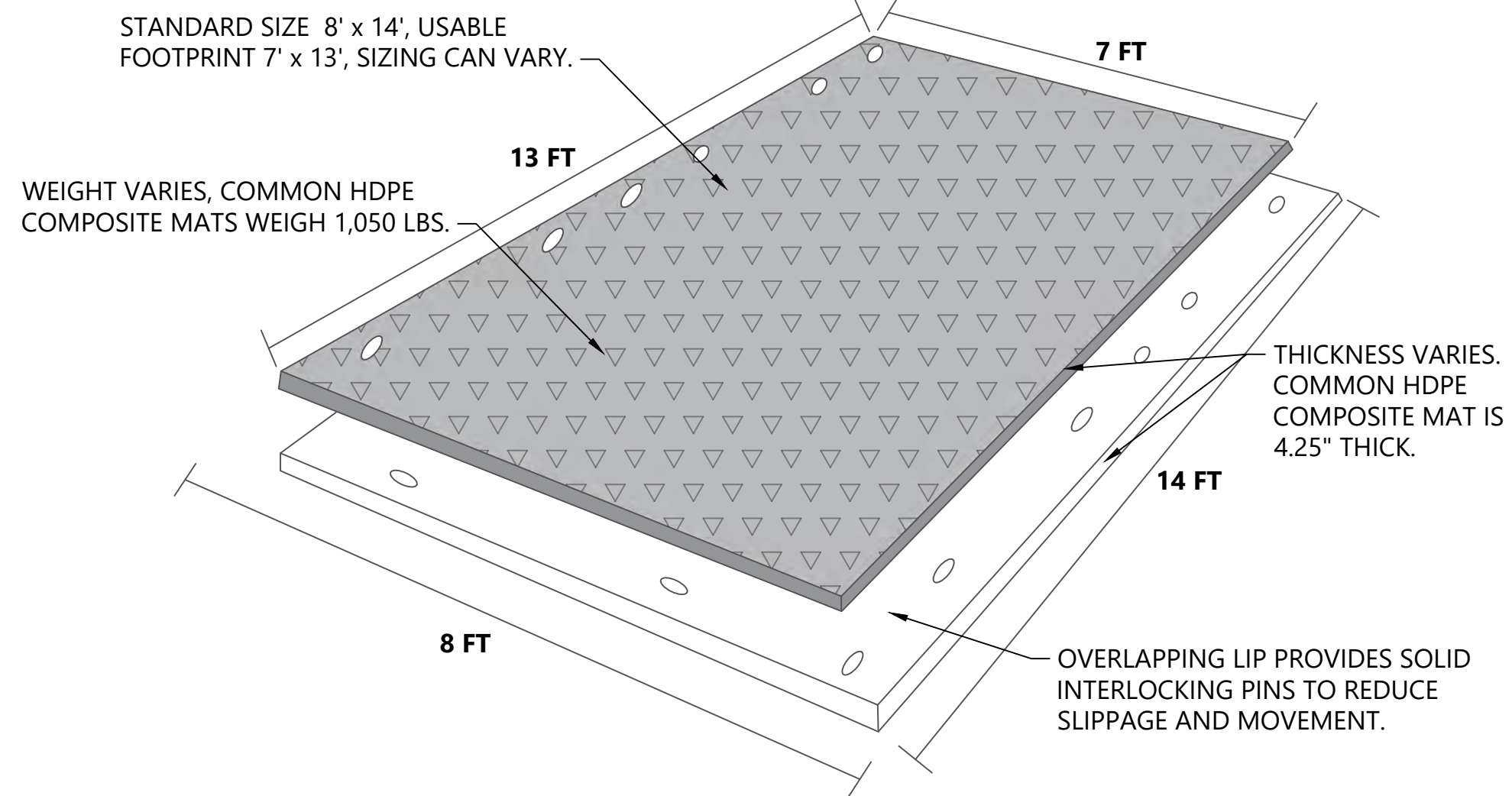
DREDGE CROSS SECTIONS

C2

SHEET NO. 10 OF 14

NOTES:

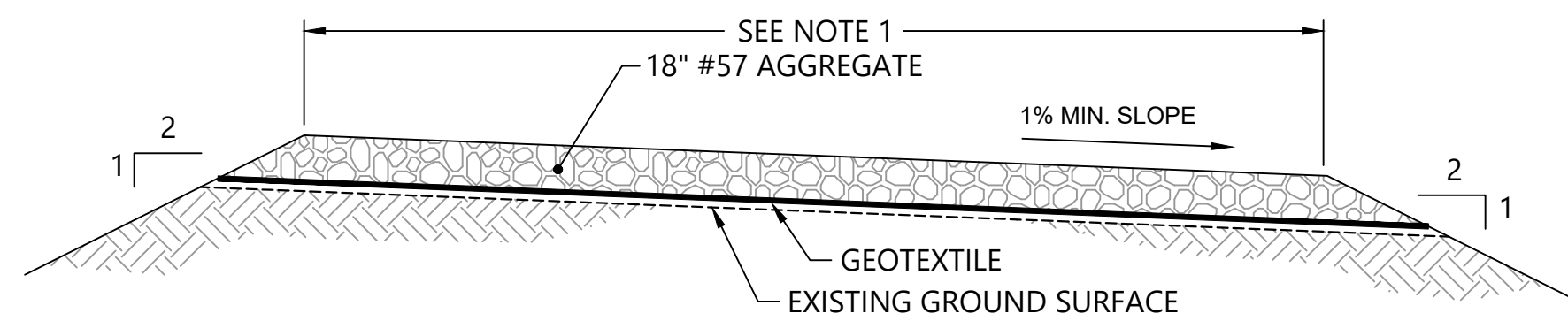
- CONSTRUCTION ACCESS ROAD WIDTH DIMENSION VARIES TO ACCOMMODATE EXISTING FEATURES AND TOPOGRAPHY.
- PLACEMENT OF FILL FOR CONSTRUCTION ACCESS ROADS SHALL BE AS REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT.
- TEMPORARY CHAIN LINK FENCE TO ENCOMPASS DISTURBED AREA AS DETAILED IN THE CONTRACTOR'S APPROVED WORK PLANS.
- SEE SPECIFICATION SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS FOR MATERIAL SPECIFICATIONS.
- CONTRACTOR GRADING SHALL BE MINIMUM REQUIRED FOR POSITIVE DRAINAGE TO THE SUMP STRUCTURE AND TO MANAGE STORMWATER FROM THE CONSTRUCTION ACCESS ROAD, STAGING AREA, AND STOCKPILE & DEWATERING AREA SHOWN ON SC1.
- THE CONTRACTOR SHALL CONSTRUCT THE STOCKPILE & DEWATERING AREA WITHIN THE STAGING AREA (LIMITS OF DISTURBANCE) AS IDENTIFIED ON THE DRAWINGS. THE STOCKPILE & DEWATERING AREA SHALL BE CONSTRUCTED TO A SIZE NECESSARY FOR THE CONTRACTOR TO PERFORM STOCKPILING & DEWATERING OPERATIONS TO MEET ESTIMATED REMOVAL PRODUCTION.
 - THE CONTRACTOR SHALL PROPOSE A SIZE OF A STOCKPILE & DEWATERING AREA IN THE WORK PLAN. THE PROPOSED APPROACH WILL BE REQUIRED TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY MAT ROADS OR EQUIVALENT TEMPORARY ROADWAYS WITHIN THE LAKE AND DREDGE AREA. EQUIPMENT MUST REMAIN ON TEMPORARY ROADWAYS AT ALL TIMES.
- THE CONTRACTOR SHALL CONSTRUCT THE DREDGING AREA & DIVERSION STRUCTURES WITHIN THE LAKE AREA TO THE SIZE NECESSARY FOR THE CONTRACTOR TO PERFORM DREDGING OPERATIONS IN THE DRY AS IDENTIFIED ON THE DRAWING.
 - FOR SIZE ESTIMATION PURPOSES. WATER ELEVATIONS DURING CONSTRUCTION MAY RANGE BETWEEN APPROXIMATE ELEVATIONS 2460'-2456.5' (NAVD88) DEPENDING ON WATER DRAWDOWN CONDITIONS AT THE DAM AND WEATHER EFFECTS.
 - THE CONTRACTOR SHALL PROPOSE A SIZE OF DIVERSION STRUCTURES WITHIN THE DREDGE AND STAGING AREA IN THE WORK PLAN.
- THE CONTRACTOR SHALL SIZE THE COLLECTION SUMP AND ASSOCIATED PUMPS WITHIN THE STAGING AREA TO THE SIZE NECESSARY TO MANAGE WEEP WATER FROM THE REMOVED DREDGE MATERIAL AS WELL AS PRECIPITATION.



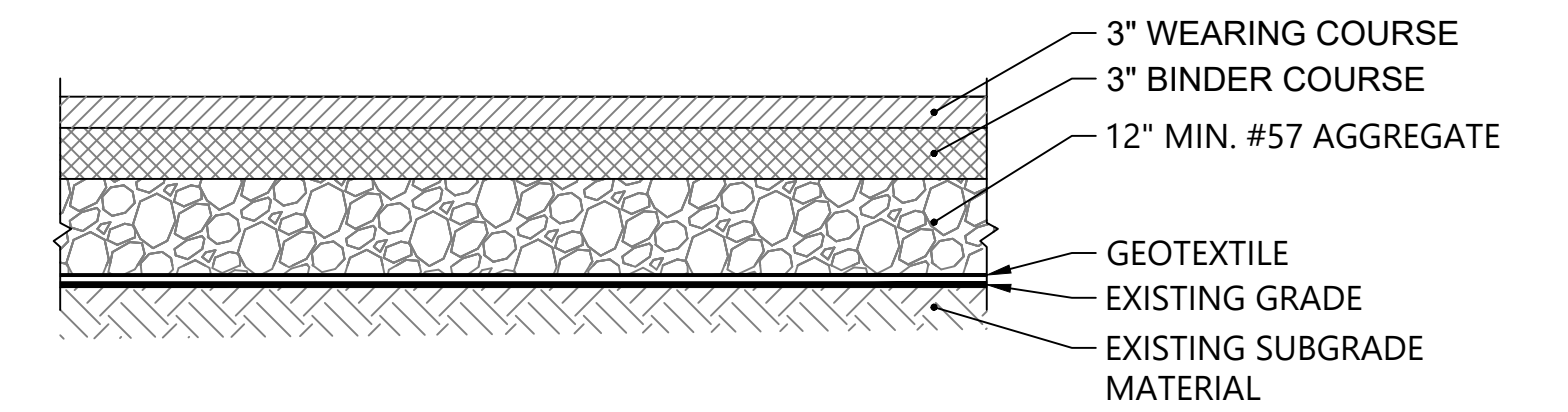
NOTES:

- COMPOSITE MATS TO BE COMPRISED OF HDPE OR WOOD EQUIVALENT MATERIALS, STANDARDS, AND PROPERTIES.
- CONTRACTOR TO ARRANGE AND STACK MATS AS NECESSARY TO ACCOMMODATE SELECTED CONSTRUCTION EQUIPMENT AND WEIGHT LOADING REQUIREMENTS.
- CONTRACTOR MAY RELOCATE MAT ROADWAYS DURING ACTIVE CONSTRUCTION.
- MATS ARE TO BE USED FOR TEMPORARY CONSTRUCTION ACCESS ONLY AND WILL BE REMOVED FOLLOWING CONSTRUCTION.

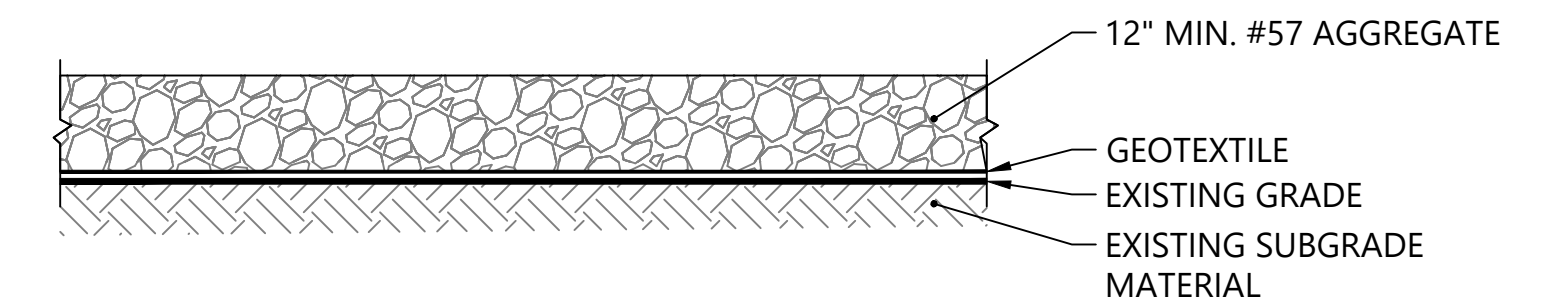
D TYPICAL COMPOSITE MAT
SC1 SCALE: NOT TO SCALE



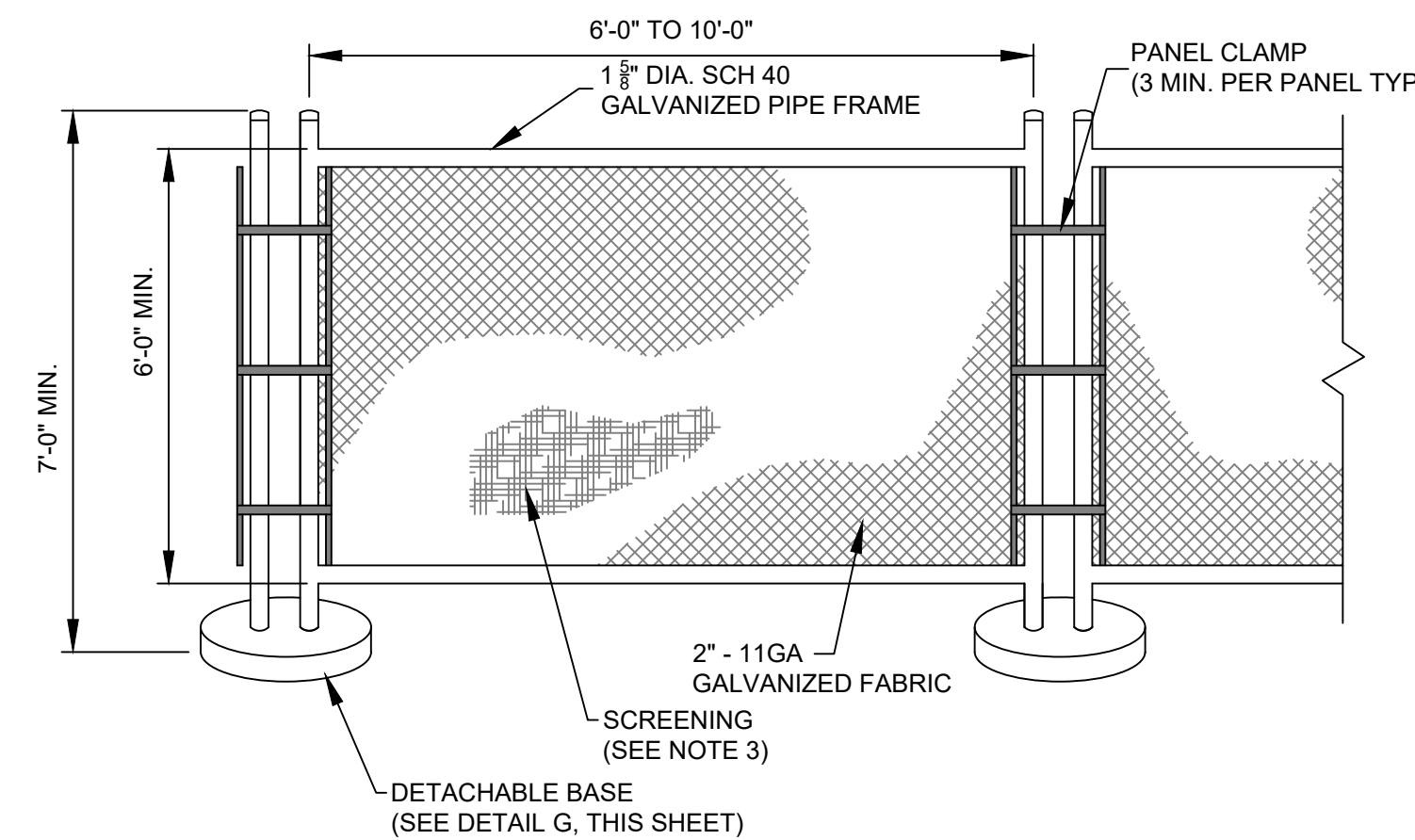
A TYPICAL CONSTRUCTION ACCESS ROAD
SC1 SCALE: NOT TO SCALE



B TYPICAL STOCKPILE AND DEWATERING AREA
SC1 SCALE: NOT TO SCALE



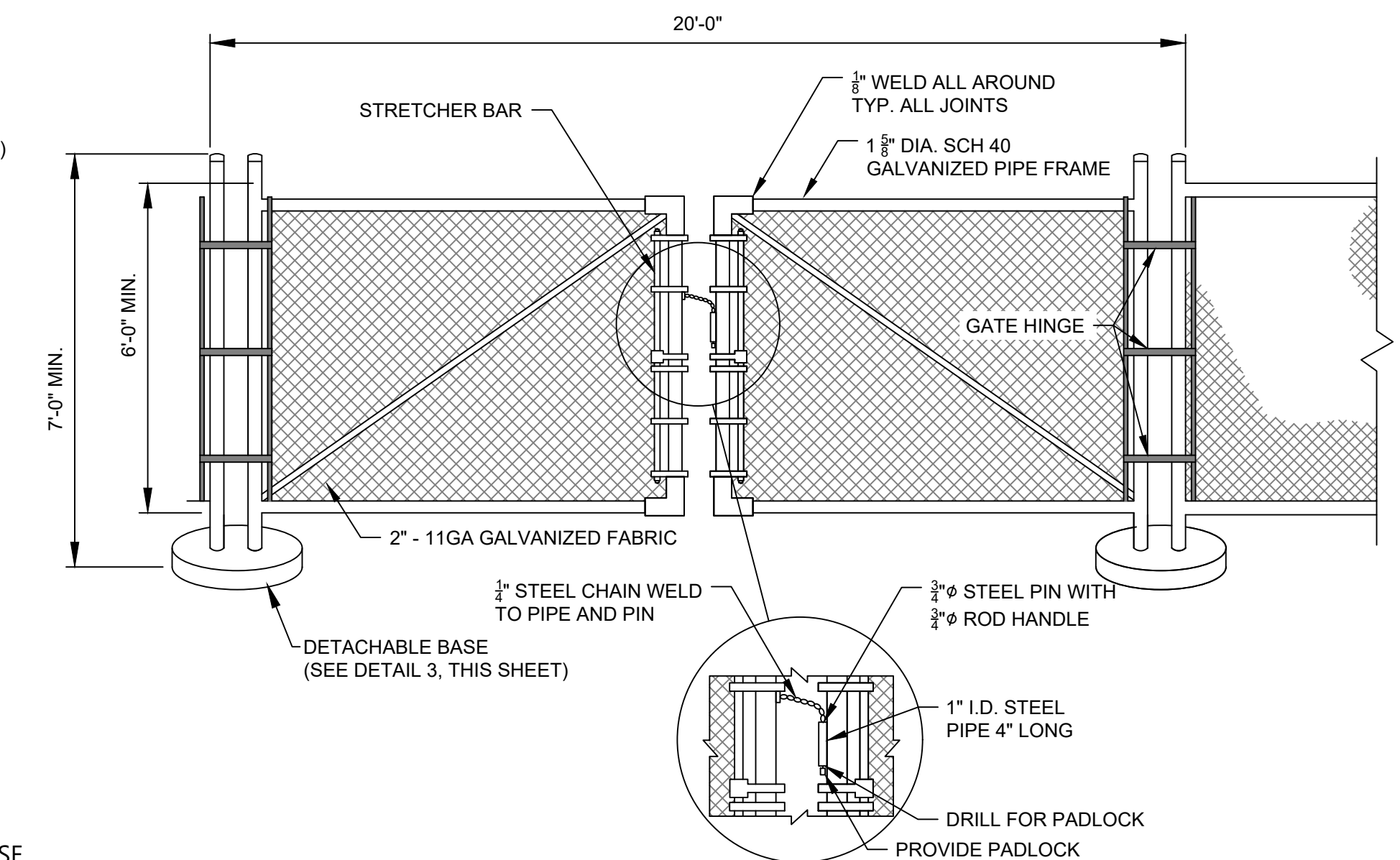
C TYPICAL STAGING AREA DETAIL
SC1 SCALE: NOT TO SCALE



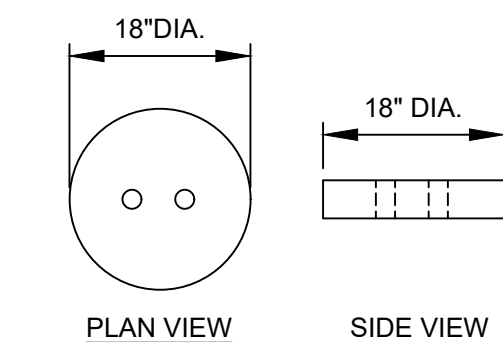
NOTES (DETAILS E, F AND G):

- DETAILS SHOWN FOR ILLUSTRATIVE PURPOSES. USE APPROPRIATE DETACHABLE BASE TO PROPERLY SECURE THE FENCING. DETACHABLE BASE CAN BE MADE OF ROUND PRECAST CONCRETE (4,000 PSI) BASES (100-LB MIN.) OR OF FABRICATED GALVANIZED PIPE FRAME WITH TWO (50-LB MIN.) SAND BAGS.
- ADDITIONAL WEIGHT MAY BE REQUIRED DEPENDING ON WIND LOADS AND SITE CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSESSING AND SUPPLYING SUFFICIENT WEIGHT SO THAT FENCING IS SECURE AT ALL TIMES.
- ATTACH KNITTED POLYPROPYLENE SCREENING ALONG FENCING.

E TYPICAL TEMPORARY CHAIN LINK FENCE DETAIL
SC1 SCALE: NOT TO SCALE



F TYPICAL VEHICLE ACCESS GATE DETAIL
SC1 SCALE: NOT TO SCALE



G DETACHABLE BASE
SC1 SCALE: NOT TO SCALE

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" ONE INCH AT FULL SIZE. IF NOT ONE INCH SCALE ACCORDINGLY



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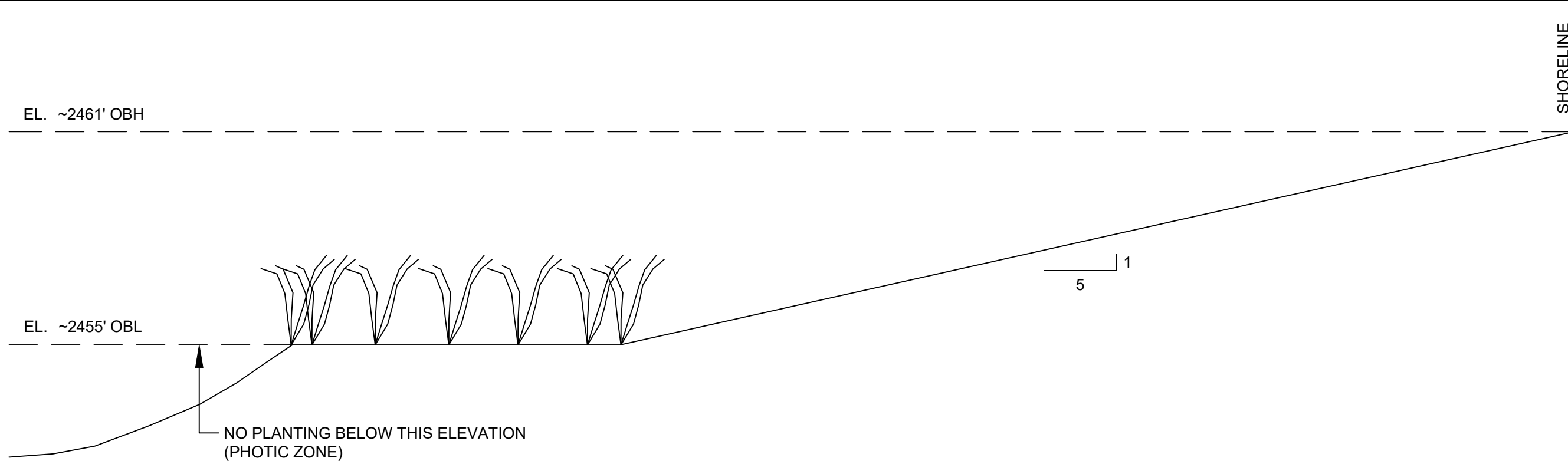
REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	
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2	OCT-24	CY	MAR	AS-BUILT DRAWINGS	

DESIGNED BY: G. BROWN
DRAWN BY: D. HOLMER
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APPROVED BY: W. DINICOLA
SCALE: AS NOTED
DATE: JUNE 2023

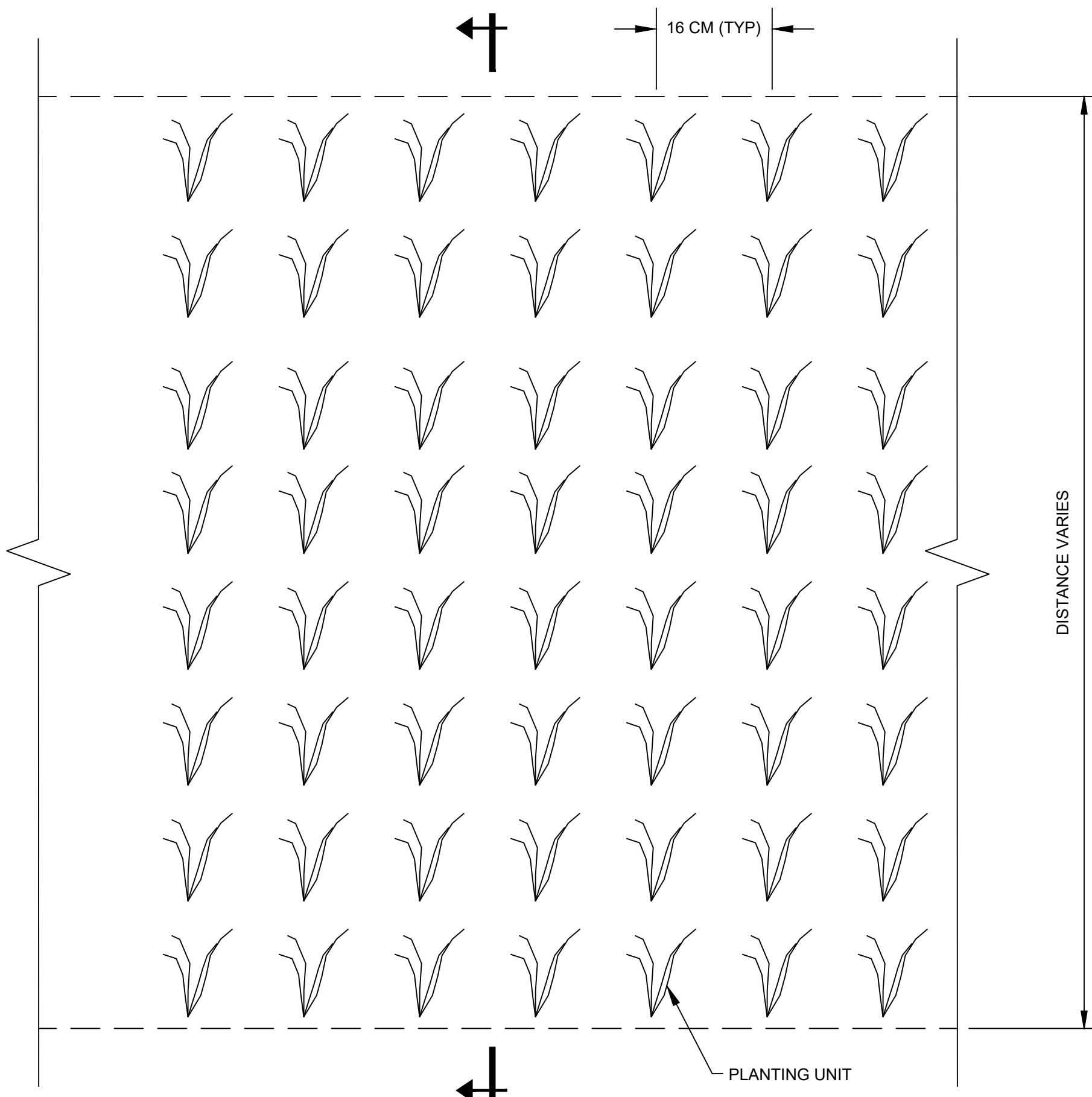
**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

**STAGING AREA LAYOUT AND
CONSTRUCTION ACCESS DETAILS**

SC1

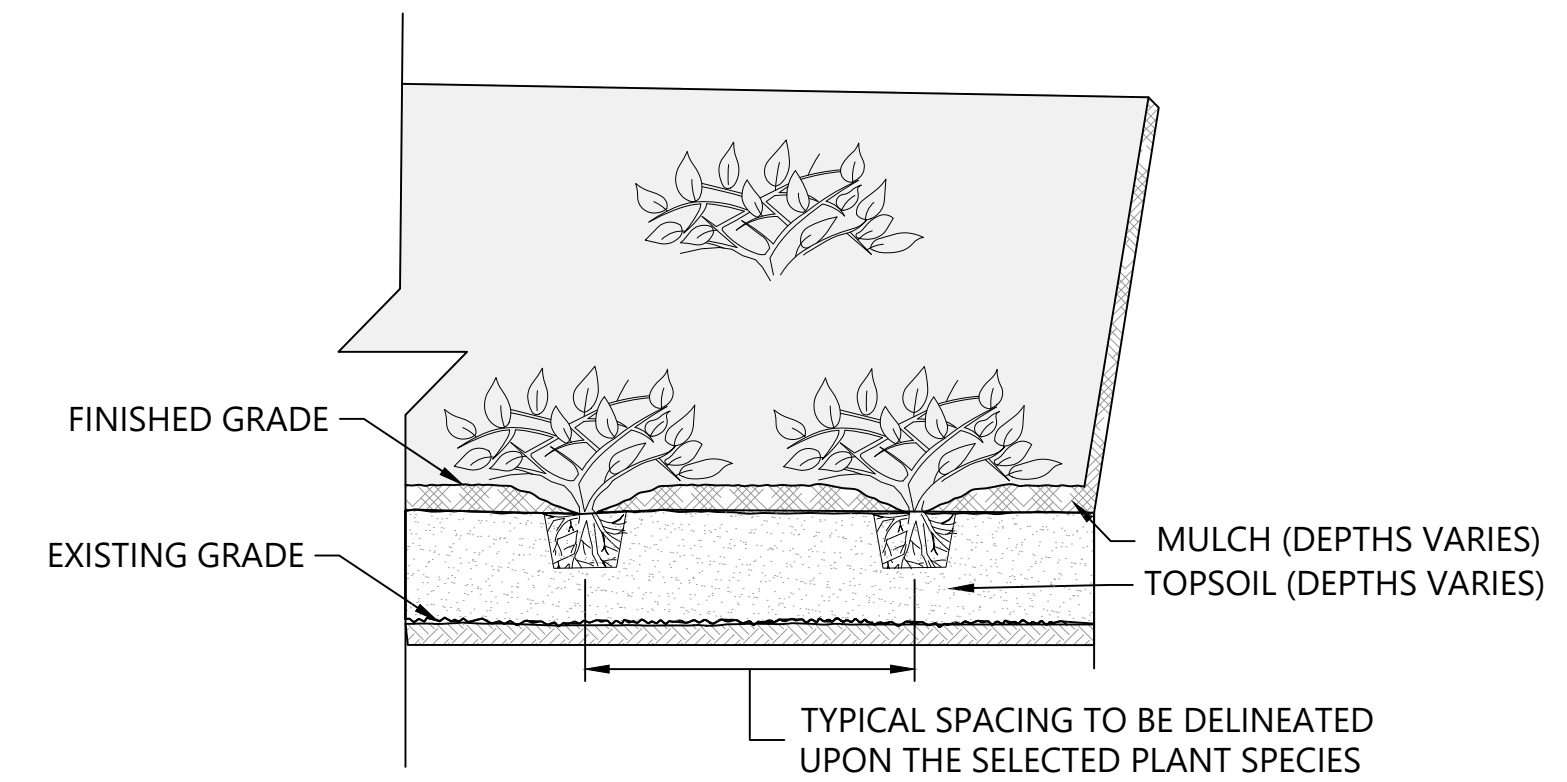


SAV PLANTING SECTION



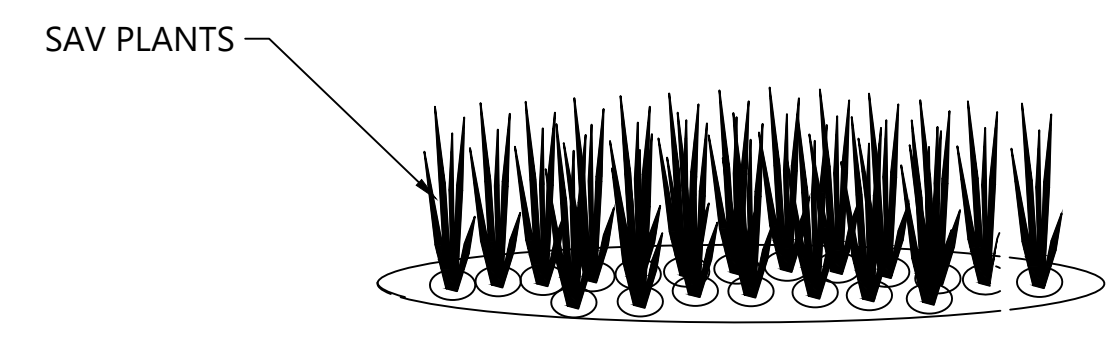
- NOTES:
1. TYPICAL LAYOUT FOR INFORMATION PURPOSES ONLY. FINAL PLANTING LAYOUT TO BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE RESTORATION PLAN.

H TYPICAL SAV PLANTING AREAS
SC2 SCALE: NOT TO SCALE



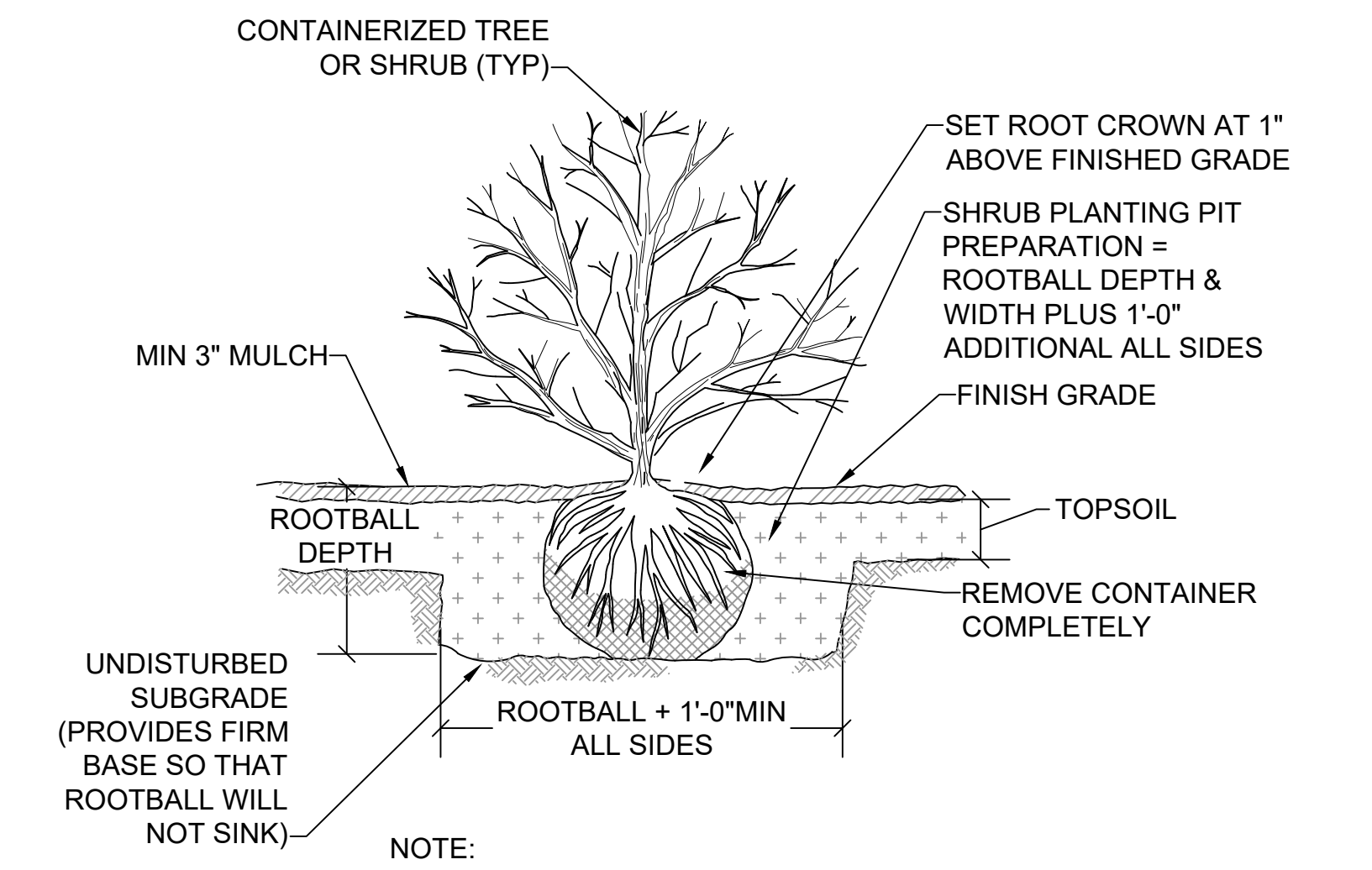
- NOTES:
1. PROPOSED SHRUB SIZE SHALL BE A MINIMUM A LARGE 1 GALLON POT
 2. PROPOSED SPACING BETWEEN SHRUB CLUSTERS TO BE 6' X 6' FT ON CENTER
 3. PROPOSED SHRUB SPECIES SHALL BE MIXED AND OF THE SAME SPECIES DELINEATED IN THIS DISTURBANCE AREA ACCORDING TO THE PLANTING SCHEDULE (SHEET AC-3)
 4. CONTRACTOR SHALL IMPLANTED PLANTING AS SPECIFIED IN RESTORATION PLAN

J TYPICAL SHRUB CLUSTER REPLANTING DETAIL
SC2 SCALE: NOT TO SCALE



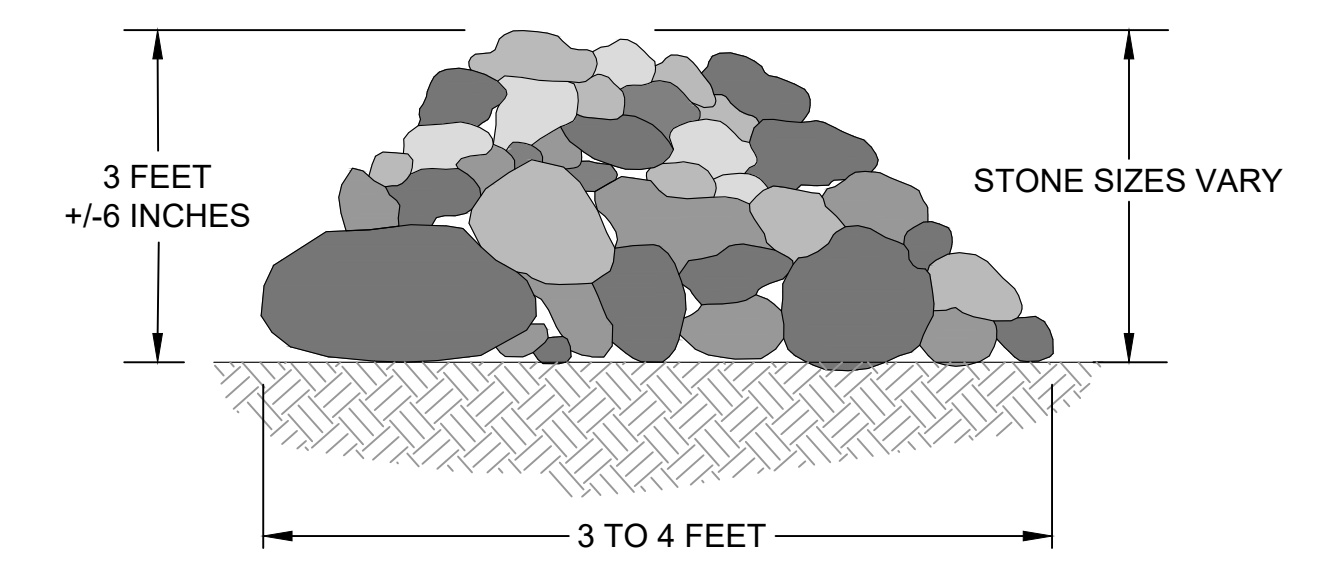
- NOTES:
1. CLUSTERS ARE APPROXIMATE IN SIZE BUT SHALL INCLUDE A RANGE OF 40-60 PLANTS PER FOUNDER PLOTS
 2. SPACING BETWEEN FOUNDER PLOTS IS APPROXIMATE BUT SHALL BE AT MINIMUM 12-20 FT IN DISTANCE
 3. PLANTS SHALL BE PLANTED IN SEDIMENT TO A DEPTH OF AT LEAST 15 CM IN ORDER TO ANCHOR THE PLANT.

I TYPICAL SAV FOUNDER PLOT DETAIL
SC2 SCALE: NOT TO SCALE



- NOTE:
1. PROPOSED TREE SIZING SHALL BE A MINIMUM OF 5 GALLON POT AND 5' FT HEIGHT.
 2. PROPOSED TREE SPACING SHALL BE 20' FT x 20' FT ON-CENTER.
 3. PROPOSED TREE SPECIES SHALL BE MIXED ACCORDING TO THE PLANTING SCHEDULE (SHEET AC-3)
 4. CONTRACTOR SHALL PLANT IN ACCORDANCE TO THE RESTORATION PLAN.

K TYPICAL TREE PLANTING DETAIL
SC2 SCALE: NOT TO SCALE



- NOTES:
1. CLUSTERS SHALL BE CONSTRUCTED BY PLACING ROUNDED OR SUB-ROUNDED STONE AT LOCATIONS IDENTIFIED.
 2. FINAL LAYOUT TO BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE RESTORATION PLAN.

L ROCK CLUSTER PLACEMENT
SC2 SCALE: NOT TO SCALE

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY



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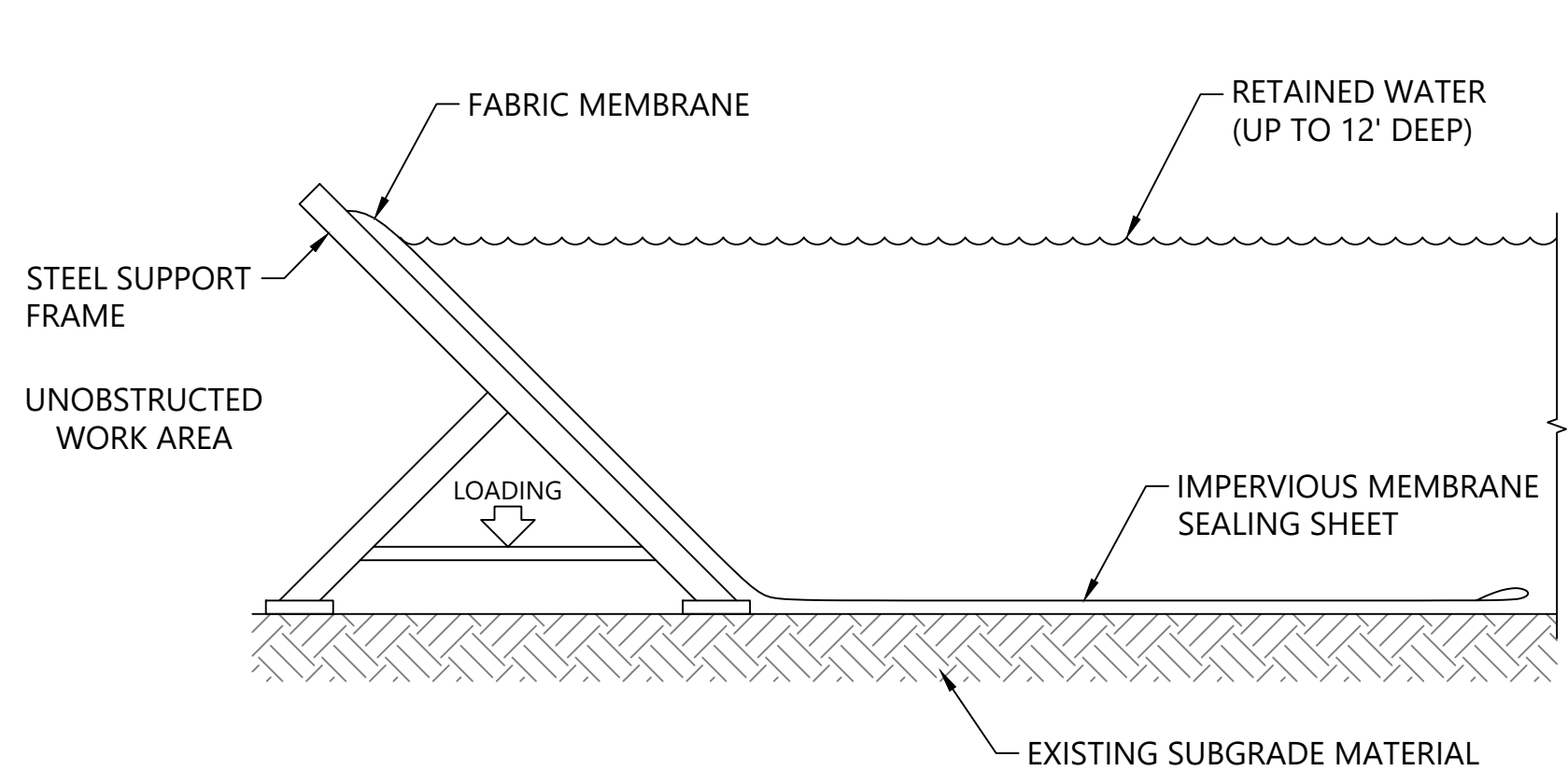
DESIGNED BY: G. BROWN
DRAWN BY: D. HOLMER
CHECKED BY: M. REEMTS
APPROVED BY: W. DINICOLA
SCALE: AS NOTED
DATE: JUNE 2023

**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

RESTORATION MANAGEMENT DETAILS

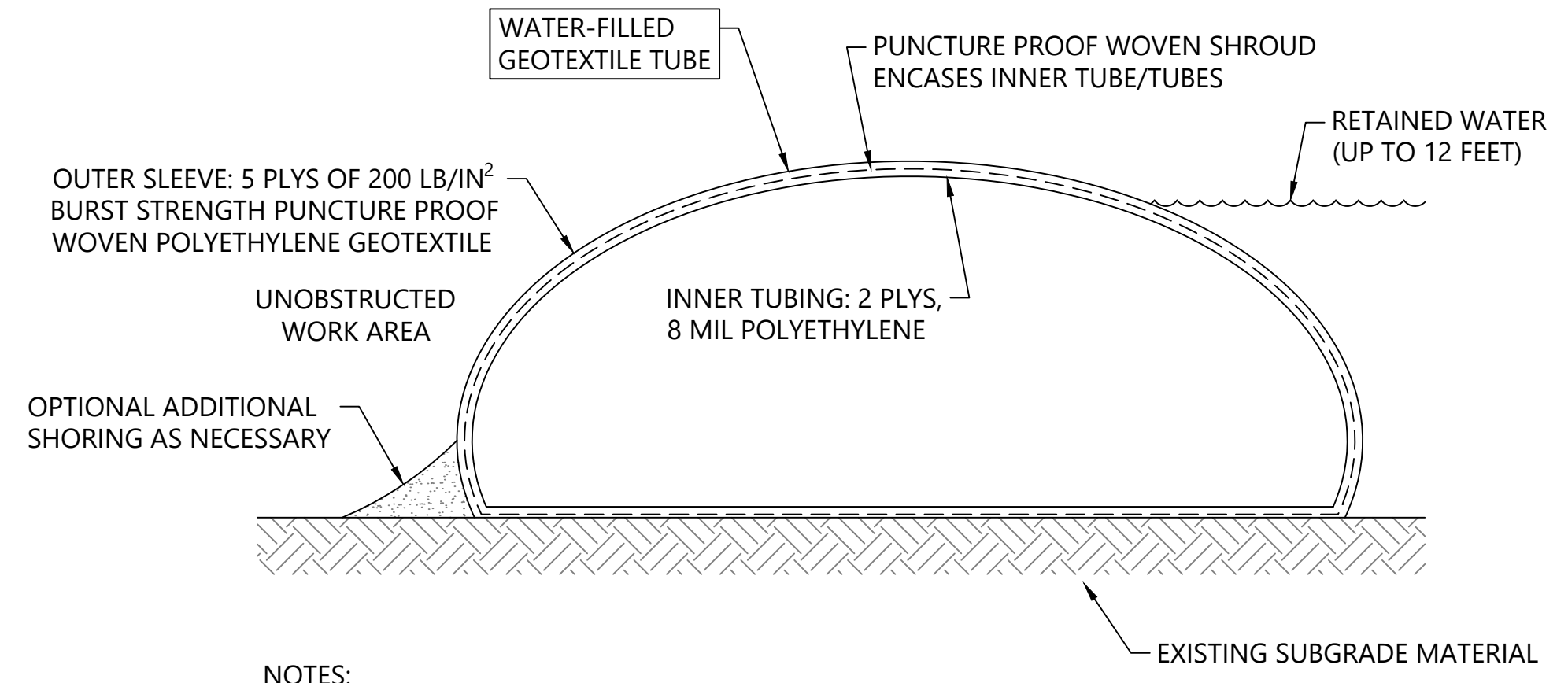
SC2

SHEET NO. 12 OF 14



- NOTES:
1. THE CONTROL STRUCTURE SHOULD BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
 2. THE HEIGHT OF THE TEMPORARY COFFERDAM DIVERSION SHOULD BE A FUNCTION OF THE DURATION OF THE PROJECT IN THE STREAM REACH. FOR PROJECTS OF LONGER THAN 2 WEEK DURATION, THE TOP OF THE TEMPORARY COFFERDAM OR EQUIVALENT CONTROL SHOULD CORRESPOND TO OBH ELEVATIONS. IMPERVIOUS MEMBRANE SHEET SHOULD BE HAND PREPARED WHERE POSSIBLE PRIOR TO PLACEMENT IN ORDER TO ENSURE A WATERTIGHT FIT.
 3. ADDITIONAL SHORELINE AND/OR BANK STABILIZATION MEASURES SHOULD BE PLACED IN THE CONSTRICTED SECTION IF ACCELERATED EROSION AND BANK SCOUR ARE OBSERVED DURING THE CONSTRUCTION TIME OR IF PROJECT TIME IS EXPECTED TO LAST MORE THAN 2 WEEKS.
 4. SHEETING ON THE DIVERSION SHOULD BE POSITIONED SUCH THAT THE UPSTREAM PORTION COVERS THE DOWNSTREAM PORTION WITH AT LEAST A 18-INCH (0.45 METERS) OVERLAP.

M TYPICAL PORTADAM® CROSS SECTION
SCALE: NOT TO SCALE



- NOTES:
1. PLACE UPLAND PORTIONS OF THE WATER-FILLED COFFERDAM FOR ANCHOR AT LEAST 2 FEET IN ELEVATION ABOVE PROPOSED FILLED HEIGHT AND SECURED UTILIZING THE MANUFACTURES APPROVED NUMBER OF ANCHORING POINTS.
 2. CLEAR LAYDOWN FOOTPRINT OF DEBRIS AND RUMBLE AS NECESSARY.
 3. INSTALL WATER-FILLED COFFERDAM TO THE SPECIFIED MANUFACTURES INSTALLATION GUIDANCE CRITERIA.
 4. PREFER PUMP FOR INFLATION OF WATER-FILLED COFFERDAM SPECIFIED BY MANUFACTURES INSTALLATION GUIDANCE CRITERIA OR 5.5HP, 3" VOLUME PUMPS WITH MAXIMUM FLOW RATE OF 16,200 GPH OR GREATER.
 5. WATER-FILLED COFFERDAM SHOULD ALWAYS BE FILLED WITH THE MAXIMUM AMOUNT OF WATER POSSIBLE. ALWAYS FILL YOUR WATER-FILLED COFFERDAM TO THEIR RECOMMENDED HEIGHT.
 6. IN STANDING WATER, STOP DEWATERING AND ALLOW THE BODIES OF WATER ON EITHER SIDE OF THE WATER-FILLED COFFERDAM TO EQUALIZE.
 7. TO REDUCE LATERAL MOVEMENT OR SLIDING OF WATER-FILLED COFFERDAM A SMALLER WATER-FILLED COFFERDAM OR EQUIVALENT SHORING MATERIAL MAY BE INSTALL DIRECTLY BEHIND THE MAIN WATER-FILLED COFFERDAM ON THE DEWATERED SIDE.
 8. PUMP OUT OR DRAIN AS MUCH OF THE WATER AS PRACTICAL, AND PUT A STRAP AROUND THE CLOSED END OF THE WATER-FILLED COFFERDAM. PULL THE DEFLATED WATER-FILLED COFFERDAM OUT OF THE WATER. IT CAN NOW BE BLOWN UP WITH AIR FOR INSPECTION AND RE-ROLLING OR DISPOSAL.

INFLATED DIMENSIONS	CONTROLLABLE MUD/WATER DEPTH*	SPECIFICATIONS OF INNER AND OUTER TUBES	CAPACITY** PER LINEAR FOOT	DRY WEIGHT PER LINEAR FOOT
12' HIGH X 25' WIDE	100 INCHES	INNER TUBING: 2 PLYS, 8 MIL POLYETHYLENE	1,700 GALLONS	35 LB
(3700 mm TALL)	(2540 mm)	SHROUD: PUNCTURE PROOF WOVEN SHROUD ENCASES EACH INNER TUBE OUTER SLEEVE: 5 PLYS OF 300 LB/IN² BURST STRENGTH PUNCTURE PROOF WOVEN POLYETHYLENE GEOTEXTILE	(6,435 LITERS)	(15.9 KG)

N TYPICAL WATER-FILLED COFFERDAM CROSS SECTION
SCALE: NOT TO SCALE

DETAIL C-6 CLEAR WATER DIVERSION PIPE

STANDARD SYMBOL: CWD-12
DESIGNATION CWD-12 REFERS TO 12 INCH CLEAR WATER DIVERSION.

CONSTRUCTION SPECIFICATIONS:

1. FLEXIBLE PIPE IS PREFERRED. HOWEVER, CORRUGATED METAL PIPE OR EQUIVALENT PVC PIPE CAN BE USED. MAKE ALL JOINTS WATERTIGHT.
2. FOR SANDBAGS USE MATERIALS THAT ARE RESISTANT TO ULTRA-VIOLENT RADIATION, TEARING, AND PUNCTURE AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL.
3. USE 10 MIL OR THICKER, UV RESISTANT, IMPERMEABLE SHEETING OR OTHER APPROVED MATERIAL THAT IS IMPERMEABLE AND RESISTANT TO PUNCTURING AND TEARING.
4. PLACE IMPERMEABLE SHEETING SUCH THAT UPGRADE PORTION OVERLAPS DOWNGRADE PORTION BY A MINIMUM OF 18 INCHES.
5. SET HEIGHT OF SANDBAG DIKE AT TWICE THE PIPE DIAMETER. MAINTAIN HEIGHT ALONG LENGTH OF SANDBAG DIKE. PLACE DOUBLE ROW OF SANDBAGS.
6. AT A MINIMUM, SECURELY ANCHOR DIVERSION PIPE AT EACH DOWNGRADE JOINT.
7. SET OUTLET END OF DIVERSION PIPE LOWER THAN INLET END.
8. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
9. DEWATER WORK AREA USING AN APPROVED EROSION AND SEDIMENT CONTROL PRACTICE AS SPECIFIED ON APPROVED PLAN.
10. KEEP POINT OF DISCHARGE FREE OF EROSION. MAINTAIN WATER TIGHT CONNECTIONS AND POSITIVE DRAINAGE. REPLACE SANDBAGS AND IMPERMEABLE SHEETING IF TORN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Maryland's Guidelines To Waterway Construction
DETAIL 1.2: PUMP-AROUND PRACTICE

CONSTRUCTION SEQUENCES:

1. SANDBAG DIKES SHOULD BE SITUATED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE WORK AREA AS SHOWN ON THE PLANS, AND STREAM FLOW SHOULD BE PUMPED AROUND THE WORK AREA.
2. THE PUMP SHOULD DISCHARGE ONTO A STABLE VELOCITY DISSIPATOR MADE OF RIPRAP OR SANDBAGS.
3. USE 10 MIL OR THICKER, UV RESISTANT, IMPERMEABLE SHEETING OR APPROVED MATERIAL THAT IS IMPERMEABLE AND RESISTANT TO PUNCTURING AND TEARING.
4. PLACE IMPERMEABLE SHEETING SUCH THAT UPGRADE PORTION OVERLAPS DOWNGRADE PORTION BY A MINIMUM OF 18 INCHES.
5. SET HEIGHT OF SANDBAG DIKE AT TWICE THE PIPE DIAMETER. MAINTAIN HEIGHT ALONG LENGTH OF SANDBAG DIKE. PLACE DOUBLE ROW OF SANDBAGS.
6. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.
7. WATER FROM THE TRIBUTARY SHOULD CONTINUE TO BE PUMPED AROUND THE WORK AREA.
8. DEWATER WORK AREA USING AN APPROVED EROSION AND SEDIMENT CONTROL PRACTICE AS SPECIFIED ON APPROVED PLAN.

TEMPORARY INSTREAM CONSTRUCTION MEASURES REVISED NOVEMBER 2000 PAGE 1.2 - 3 MARYLAND DEPARTMENT OF THE ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



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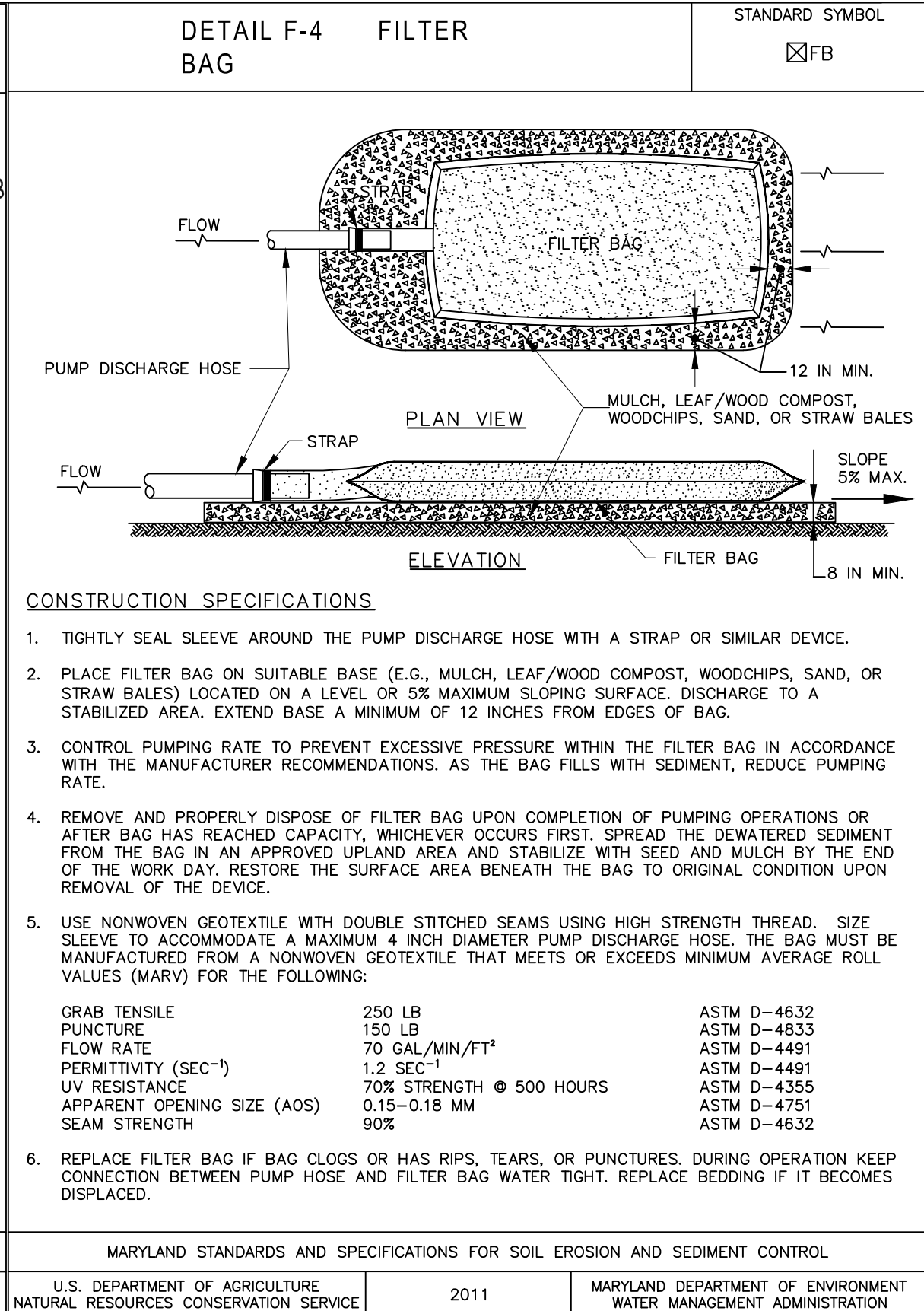
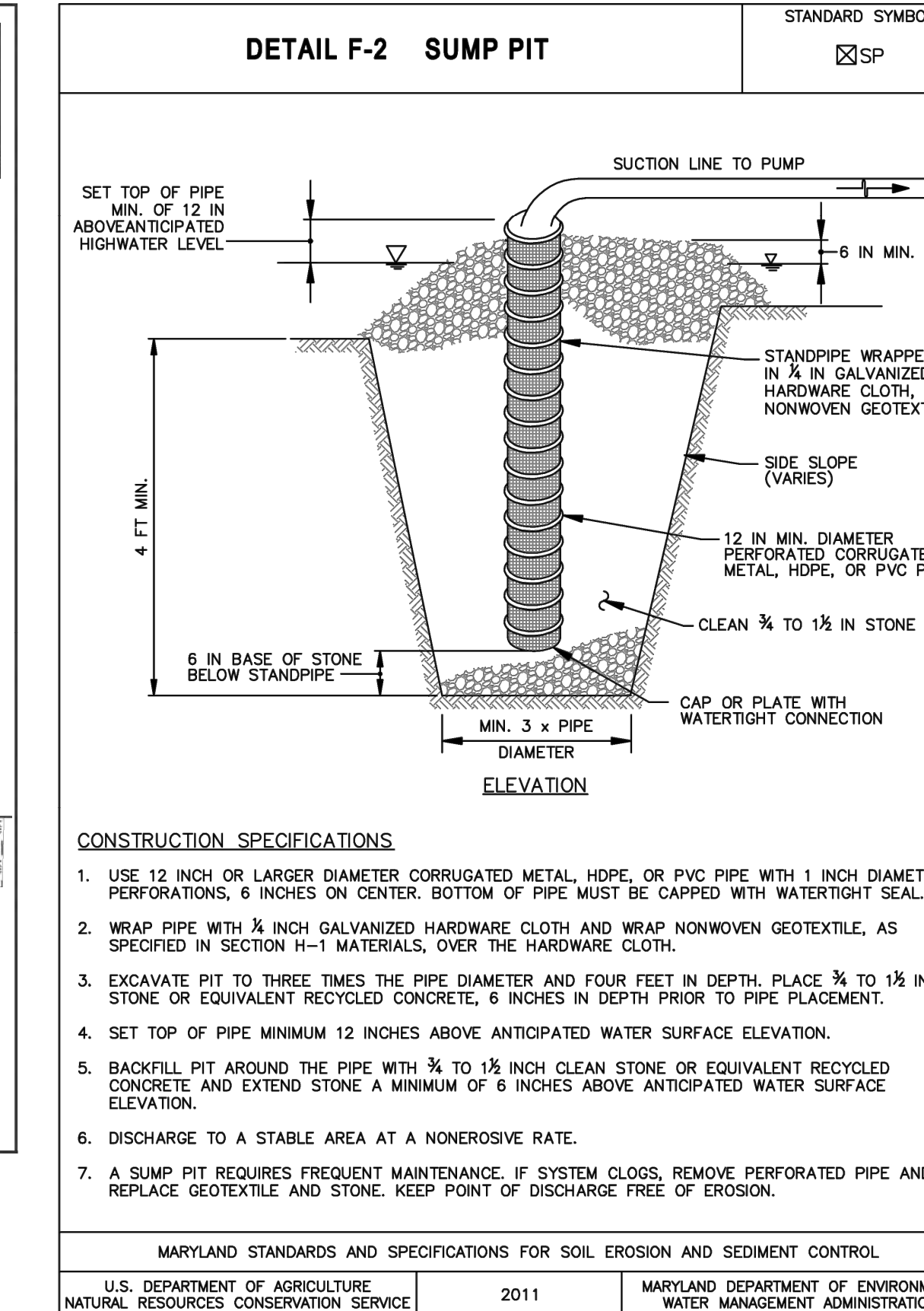
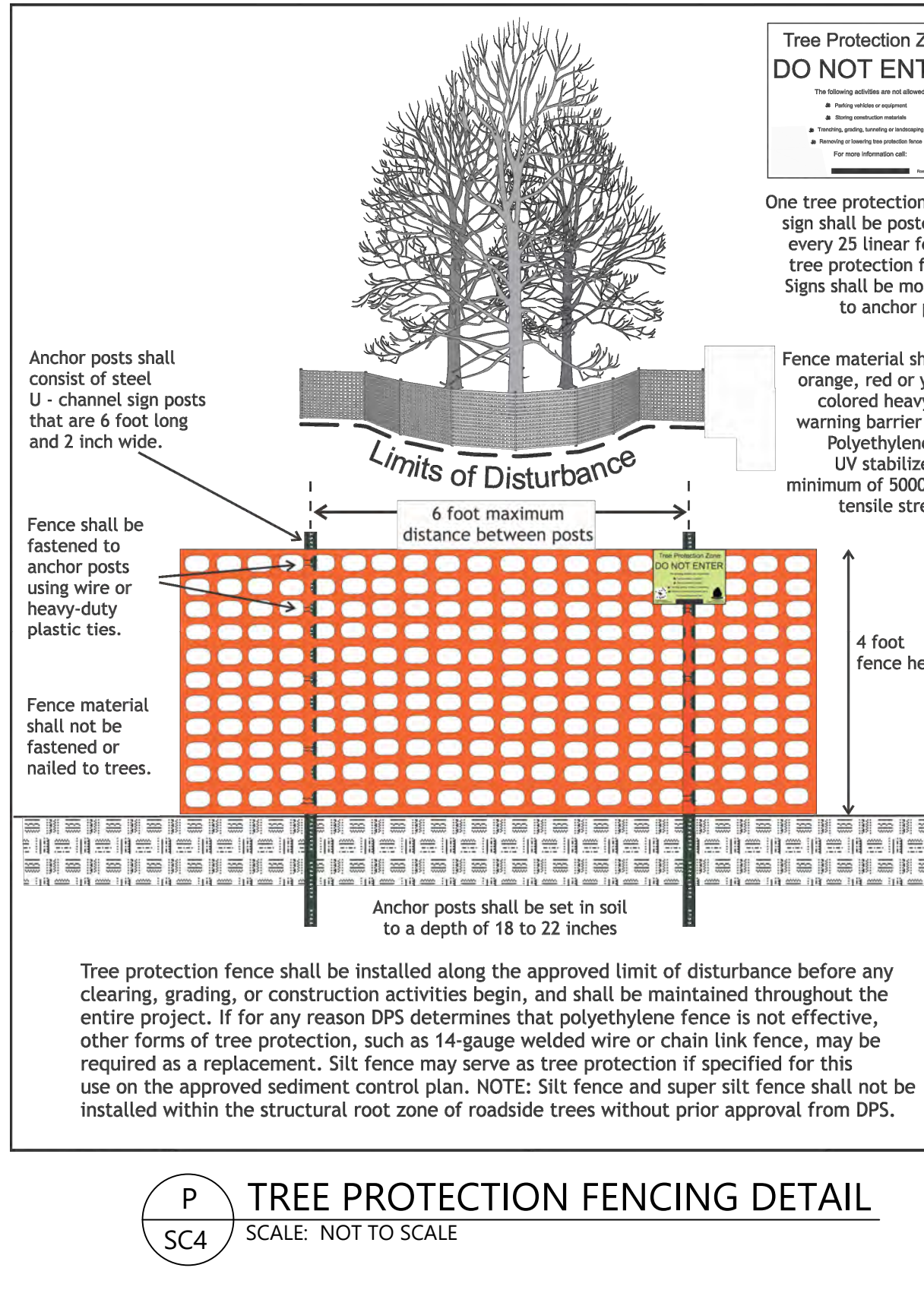
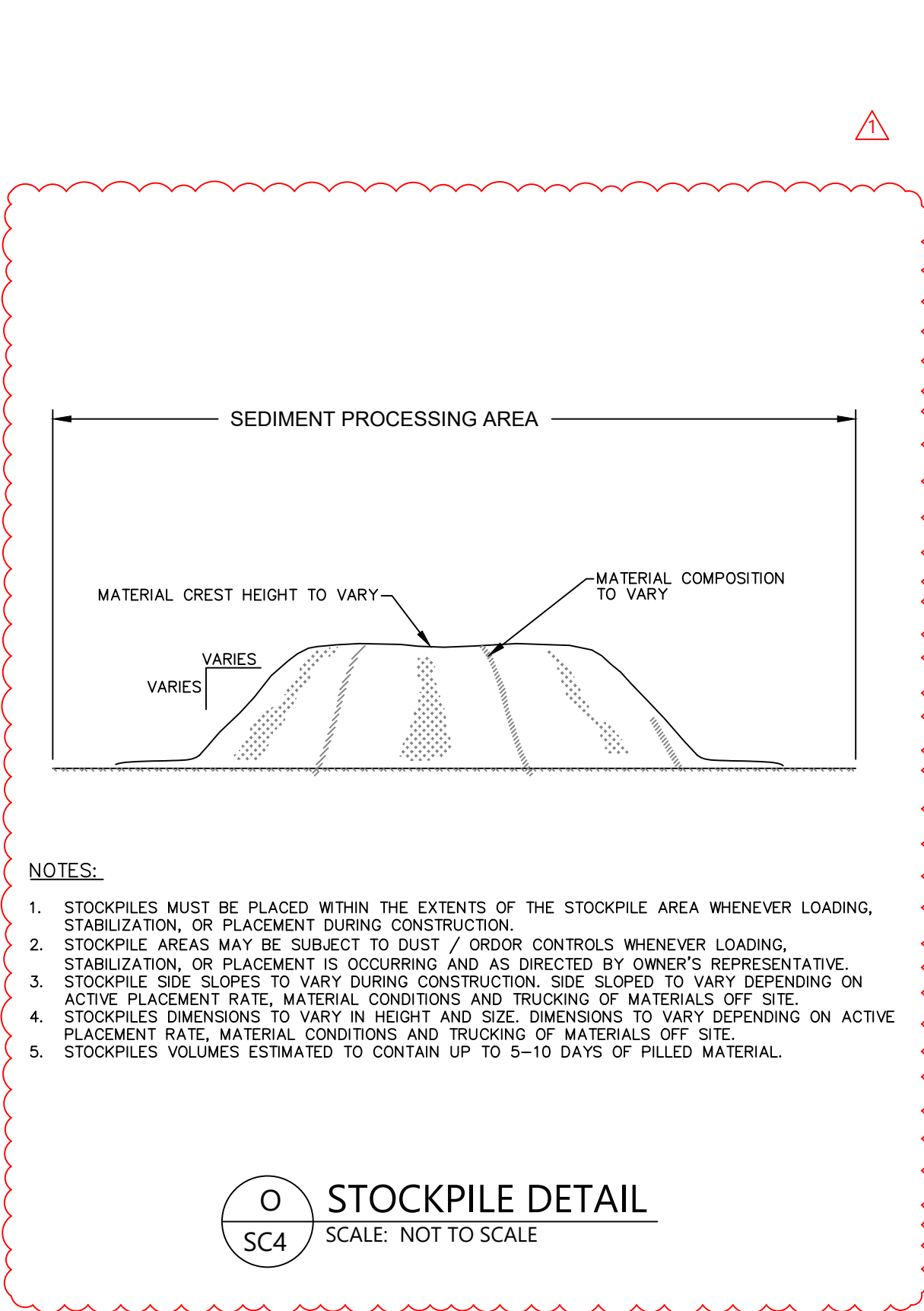
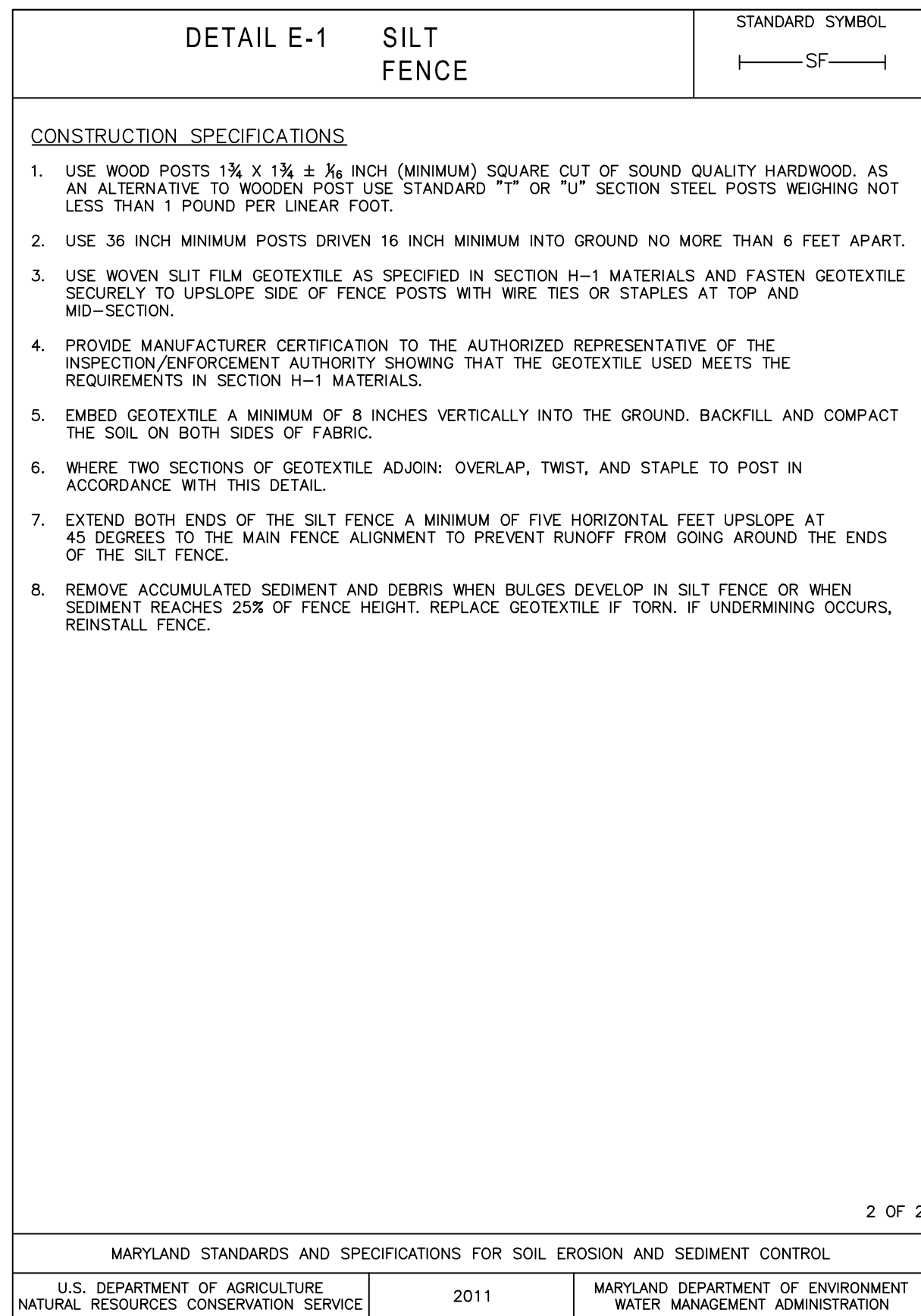
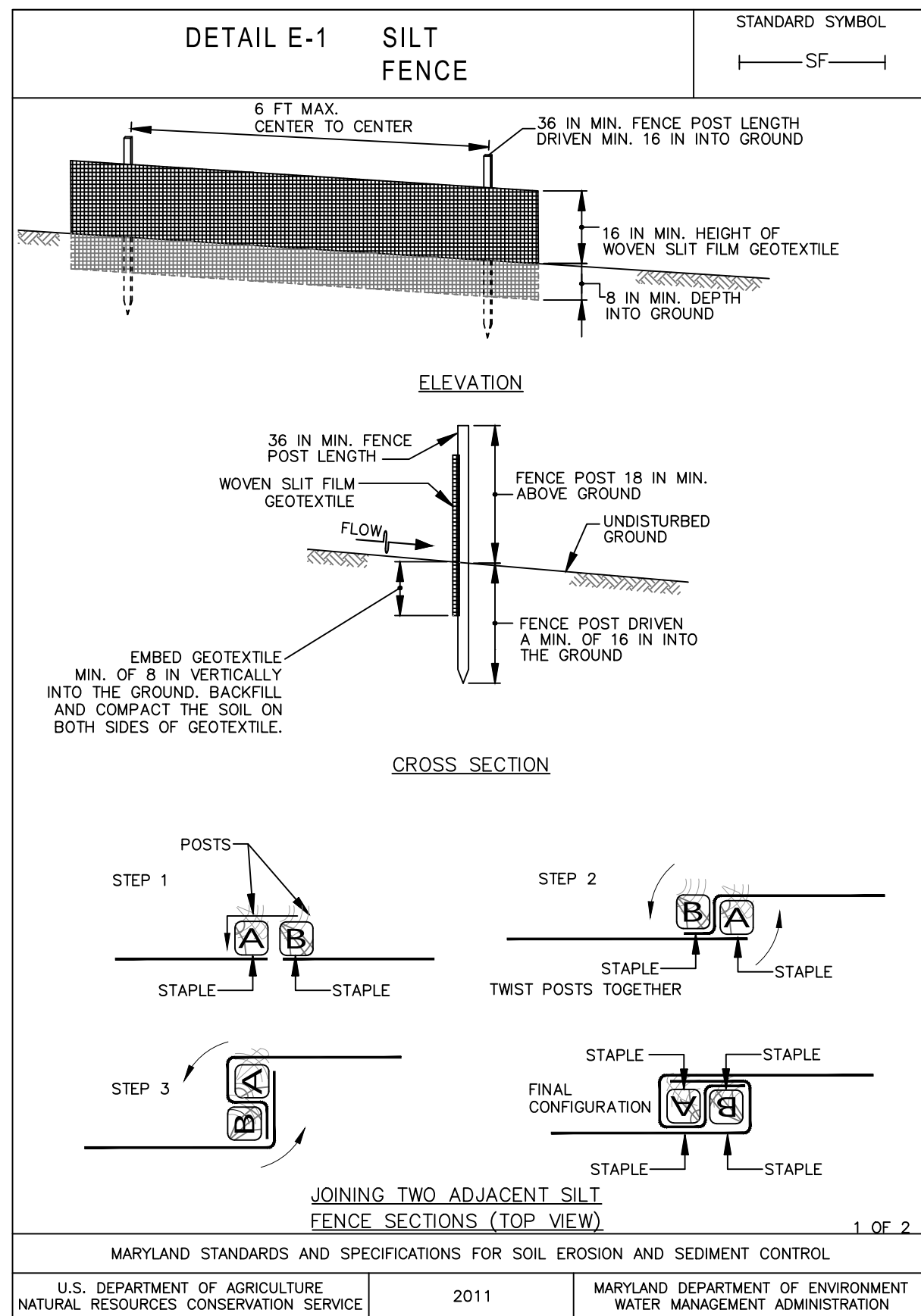
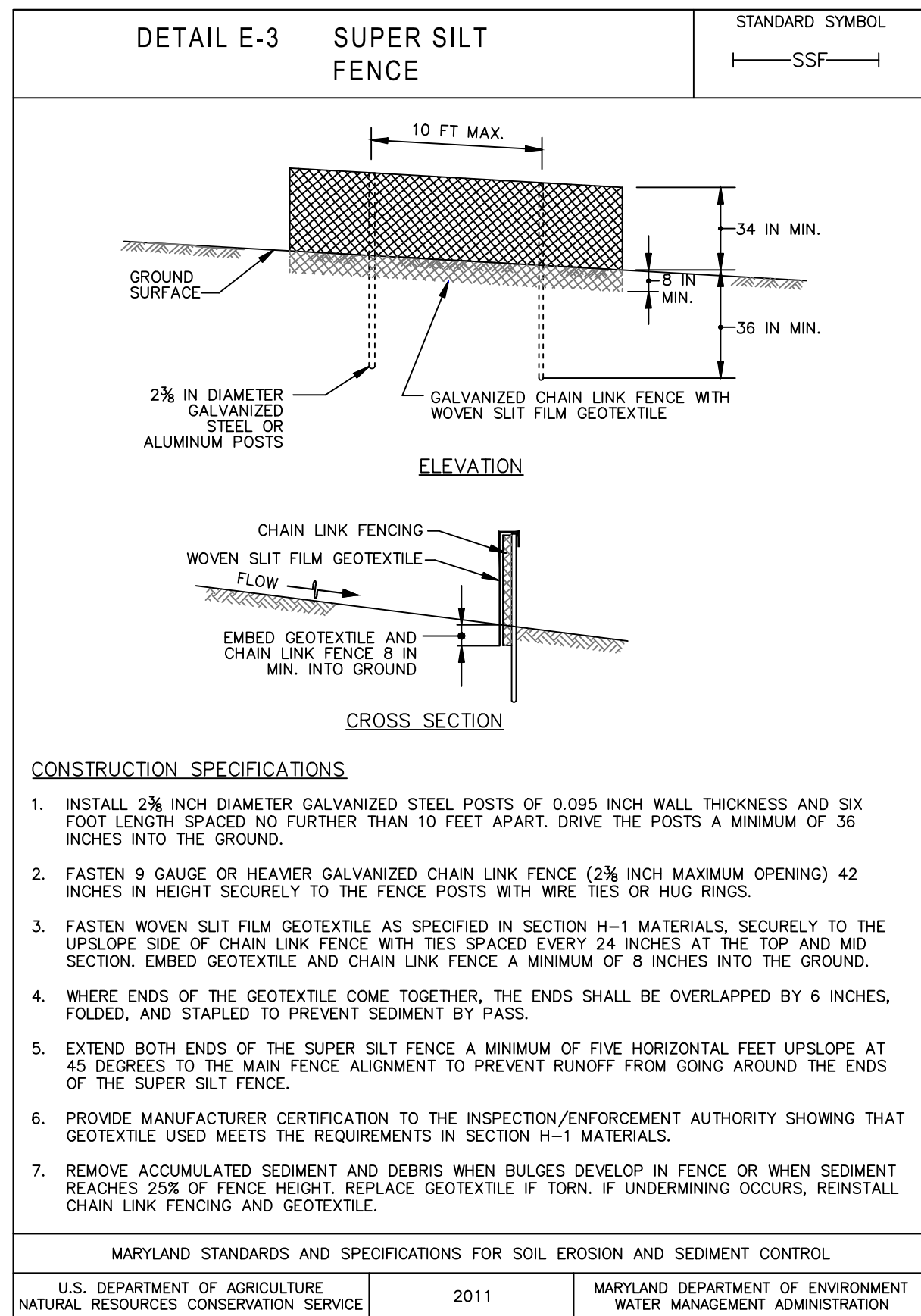
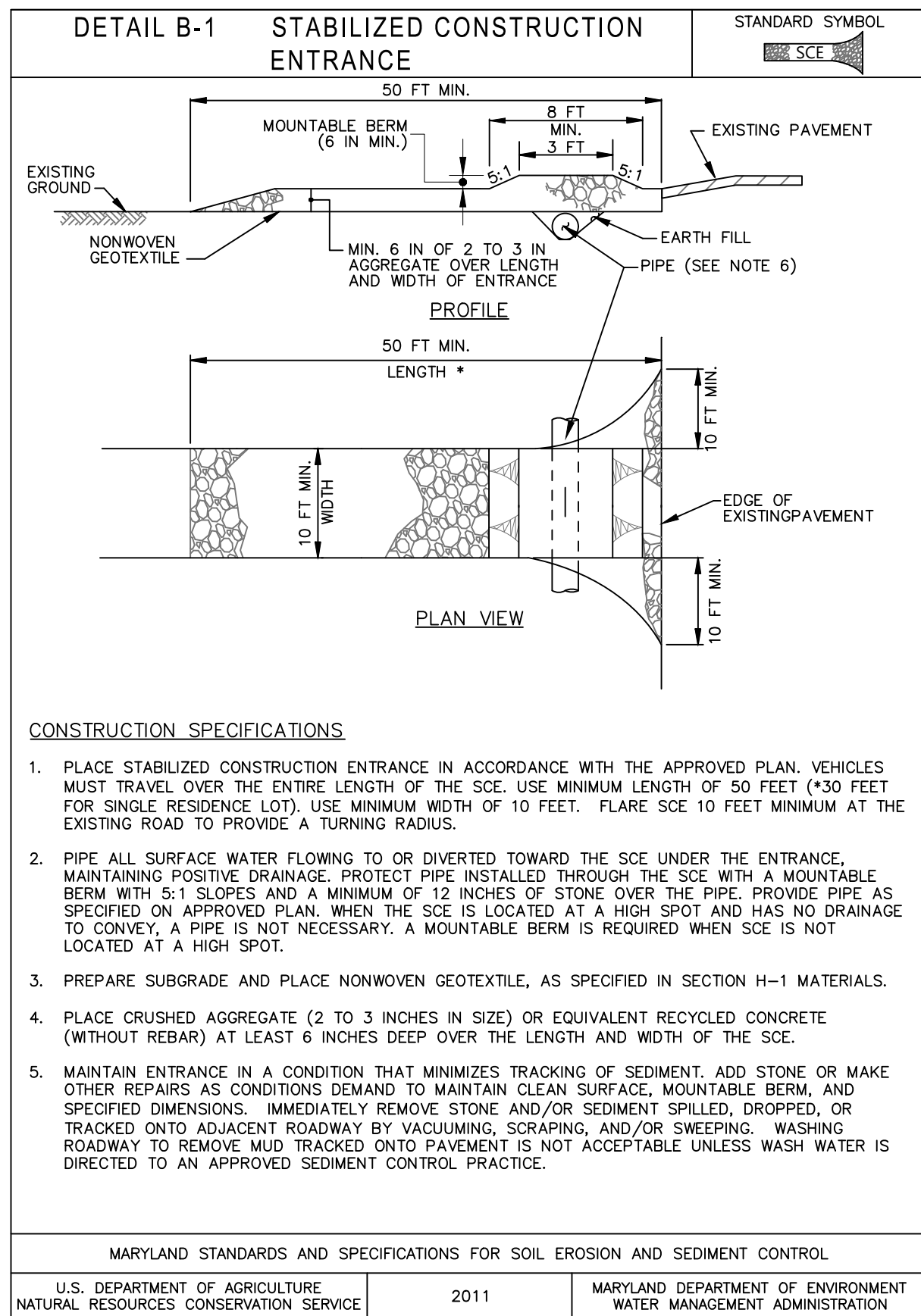
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**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

**DIVERSION STRUCTURE
DETAILS**

SC3
SHEET NO. 13 OF 14

ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY
PLAN INTENDED TO BE VIEWED IN COLOR, ADJACENT BLOCK IS "BLUE"



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**DEEP CREEK LAKE
ARROWHEAD COVE DREDGING**

**SOIL EROSION AND SEDIMENT
CONTROL DETAILS**

SC4

SHEET NO. 14 OF 14

PLAN INTENDED TO BE VIEWED IN COLOR. ADJACENT BLOCK IS "BLUE" INCH SCALE ACCORDINGLY