

L:\WETLANDS\2022 WETLANDS FILES\DRGNCW22.190 ---
 Carolina Beach Lake Project, Highfill Infrastructure Engineering\maps
 Boundaries are approximate and not meant to be absolute.
 Map Source: GIS Open Street Map

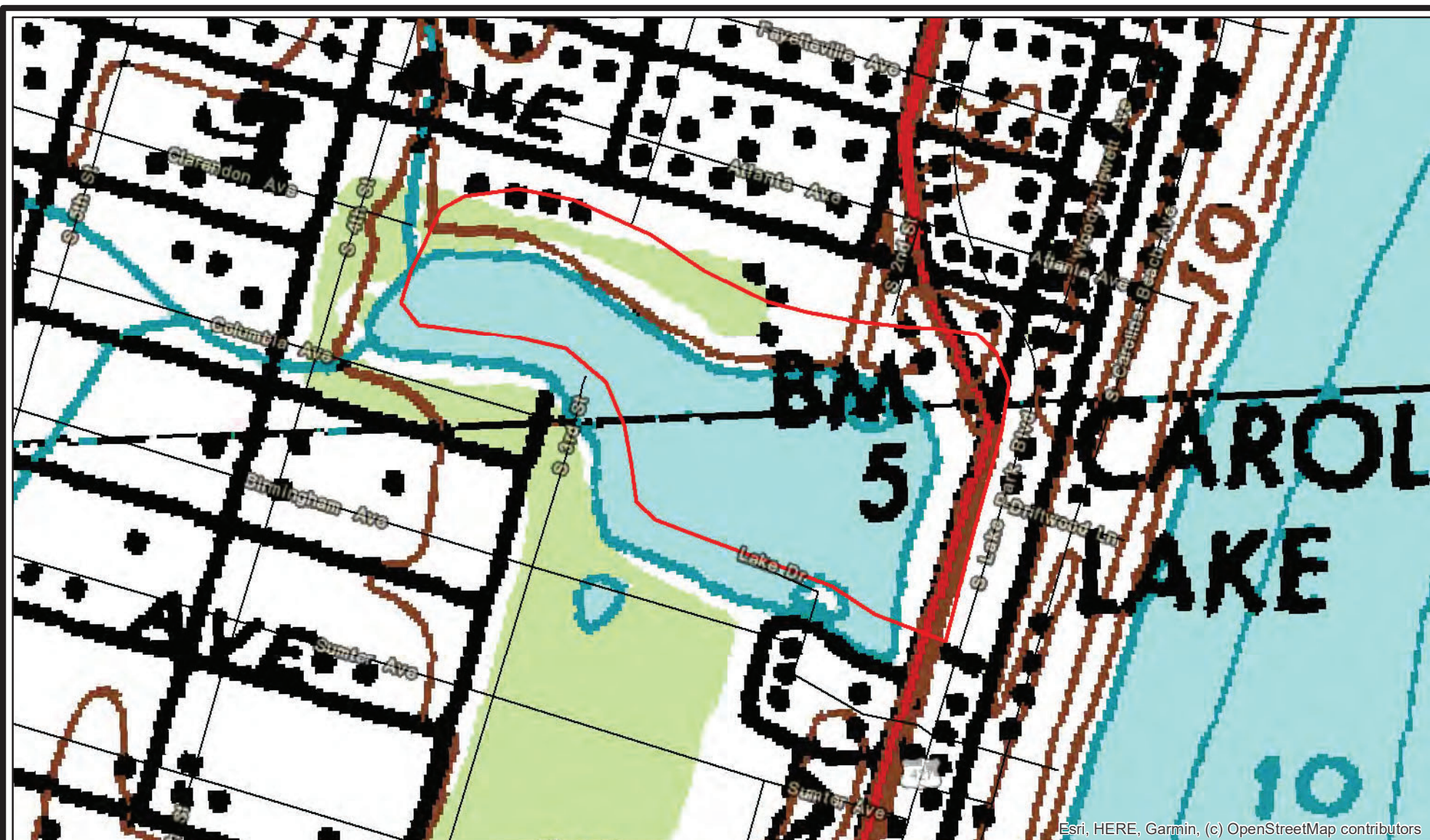


Carolina Beach Lake
 New Hanover County, NC

June 2022
 DRGNCW22.190

DAVEY 
Resource Group
 3805 Wrightsville Avenue
 Wilmington, NC 28403
 (910) 452-0001

Figure 1
Vicinity Map



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 Map Source: USGS Carolina Beach 7.5 Minute Topographic Quad



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Figure 2
Topographic Map



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 Carolina Beach Lake Project, Highfill Infrastructure Engineering\maps
 Boundaries are approximate and not meant to be absolute.
 Map Source: NRCS GIS Soils Data

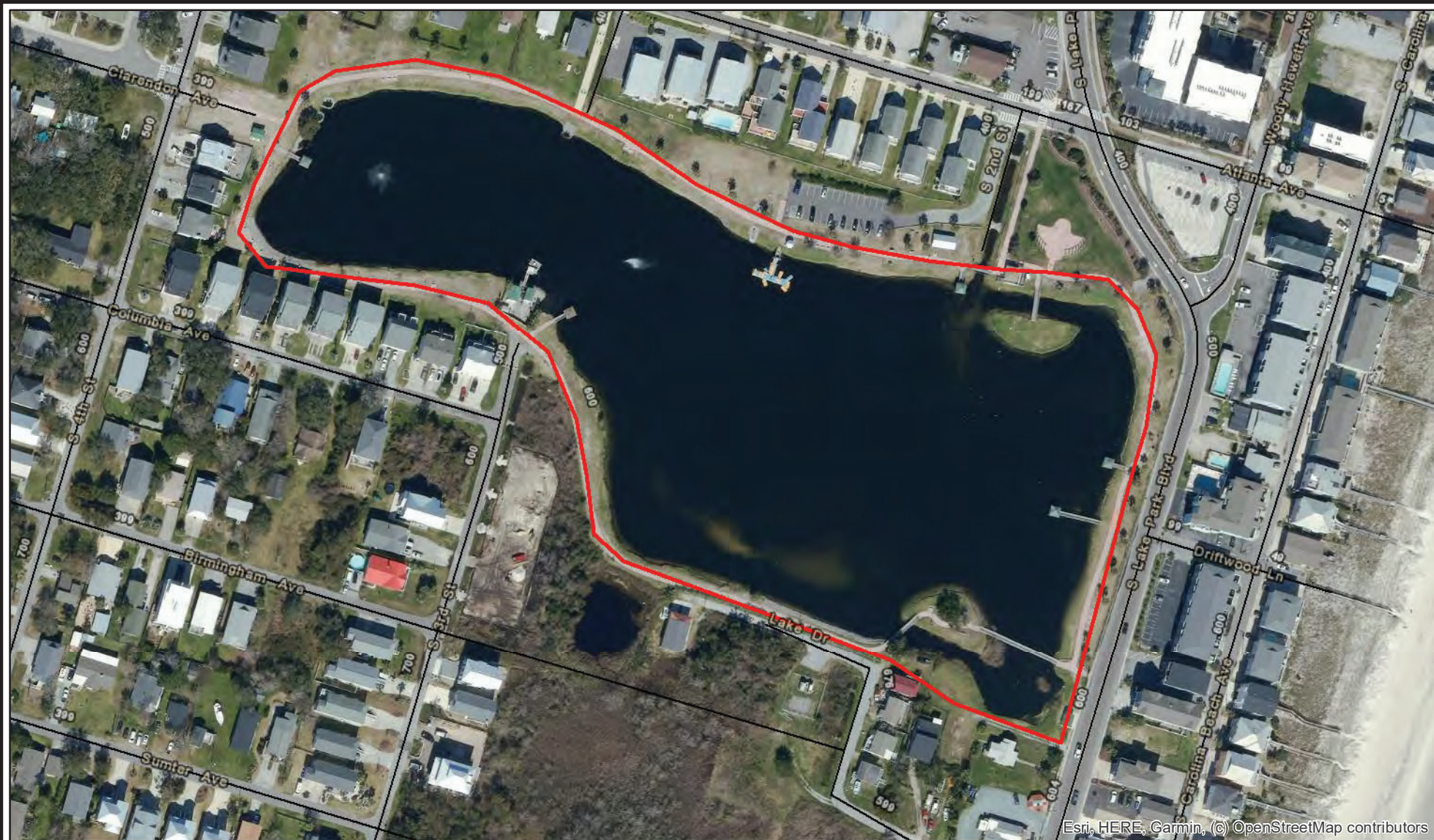


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Figure 3
Soils Map



Esri, HERE, Garmin, (c) OpenStreetMap contributors

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 Boundaries are approximate and not meant to be absolute.
 Map Source: 2020 NC One Map



0 100 200 400 Feet

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Figure 4
Current Aerial



Legend

 Open Waters Line (Approx) ~ 11.5 ac

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Map Source: 2016 GIS World Imagery



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New Hanover County, NC

June 2022
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Figure 5
Preliminary Wetland Map

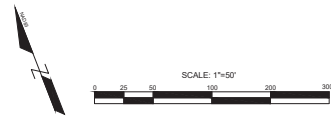


1. AREA CALCULATED BY COORDINATE METHOD.
2. HORIZONTAL (NAD 83-2011) AND VERTICAL (NAVD 88) DATA WERE ESTABLISHED UTILIZING A TOPCON HPVRV-GS RECEIVER OPERATING IN VRS MODE WITH REPEAT OBSERVATIONS.
3. THIS PARCEL IS LOCATED IN ZONE AN (BEA + 11.0) - A SPECIAL FLOOD HAZARD AREA - AS SHOWN ON FEMA FLOOD MAP NO. 32023-1300K BEARING AN EFFECTIVE DATE OF 9/26/2018.
4. UTILITIES AS SHOWN ARE PLOTTED FROM INFORMATION AVAILABLE BY THE CITY OF FORT COLLINS AND INFORMATION PROVIDED BY UTILITY COMPANIES. ADDITIONAL UTILITIES NOT SHOWN MAY EXIST. THE APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED PRIOR TO LAND DISTURBING ACTIVITIES.
5. THIS LOT IS SUBJECT TO ALL UTILITY EASEMENTS, RESTRICTIONS, OR COVENANTS OF RECORD.
6. CONTOUR INTERVAL = 1'.

CERTIFICATE OF ACCURACY AND MAPPING

I, JOSHUA W. TAYLOR, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (SEE DESCRIPTIONS RECORDED IN THE REFERENCES NOTED ON THIS DRAWING) THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS APPROXIMATE. THE DATA PROVIDED ARE NOTED, AND THE RATIO OF PRECISION IS 1:10,000; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56. 1650). THIS _____ DAY OF _____ A.D., _____

I, JOSHUA W. TAYLOR, CERTIFY THAT THIS SURVEY IS OF AN EXISTING PARCEL, OR PARCELS OF LAND OR ONE OR MORE EXISTING EASEMENTS, AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.



JOSHUA W. TAYLOR, PLS LICENSE NO. L-5217

[illegible]

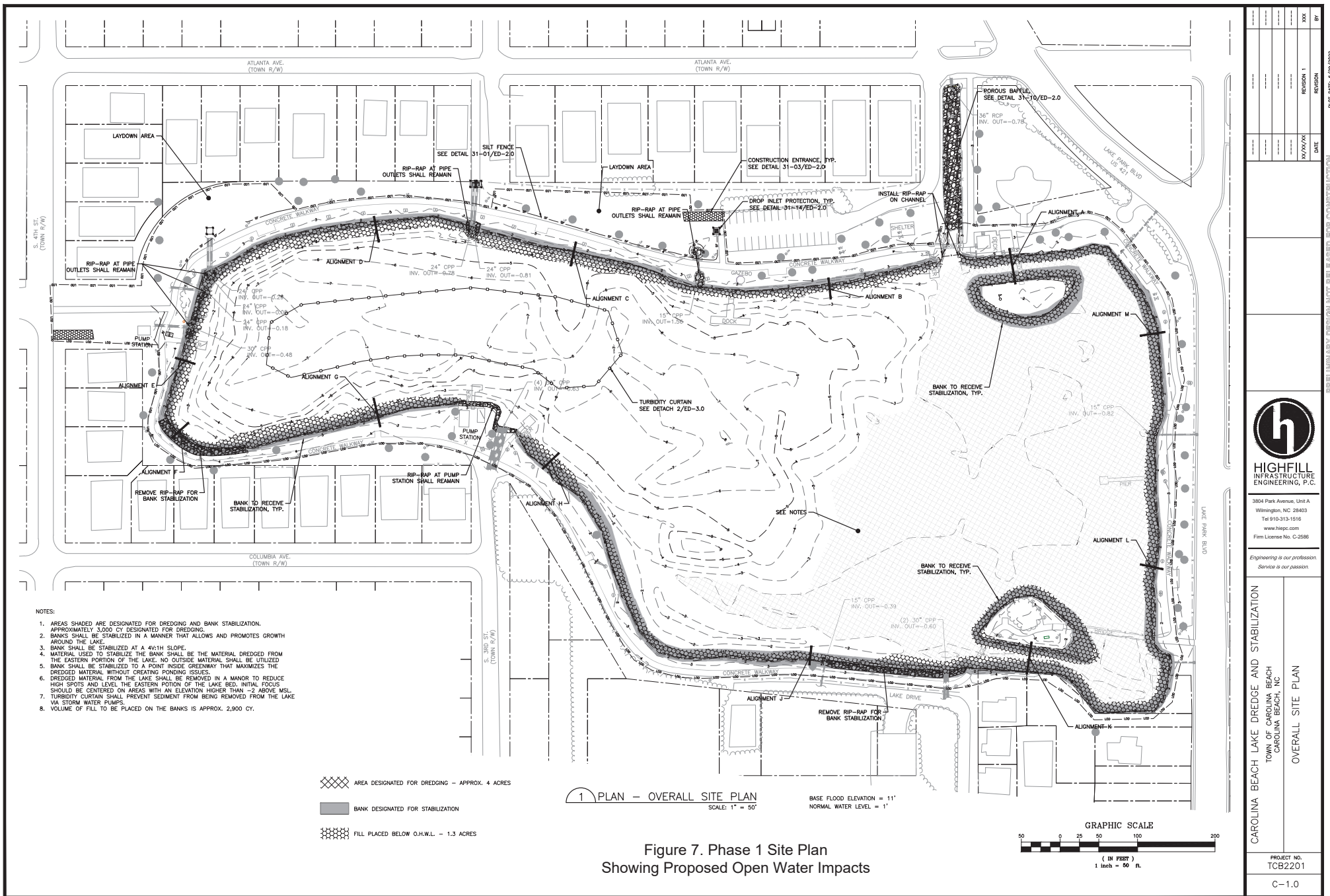


Figure 7. Phase 1 Site Plan
Showing Proposed Open Water Impacts

NO.	DATE	BY
1	11/17/22	XXX
2	11/17/22	XXX
3	11/17/22	XXX
4	11/17/22	XXX
5	11/17/22	XXX
6	11/17/22	XXX
7	11/17/22	XXX
8	11/17/22	XXX
9	11/17/22	XXX
10	11/17/22	XXX

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CAROLINA BEACH LAKE DREDGE AND STABILIZATION
TOWN OF CAROLINA BEACH
CAROLINA BEACH, NC
OVERALL SITE PLAN

PROJECT NO.
TCB2201

C-1.0

PLAT DATE: 6/29/2022

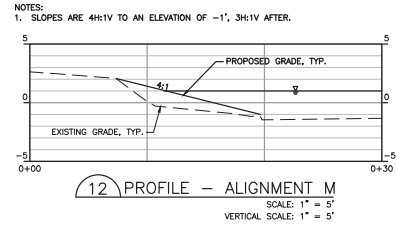
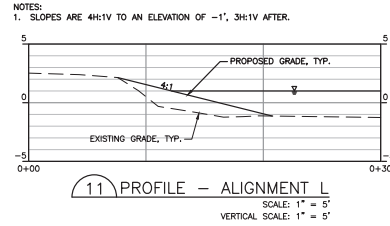
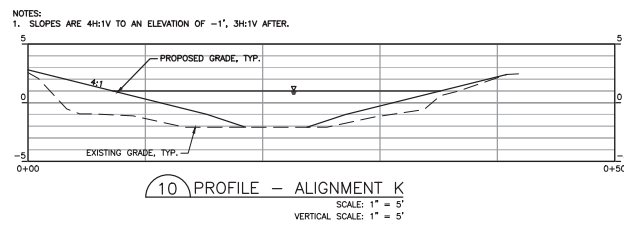
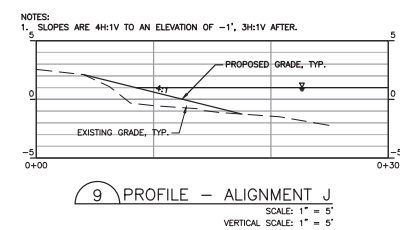
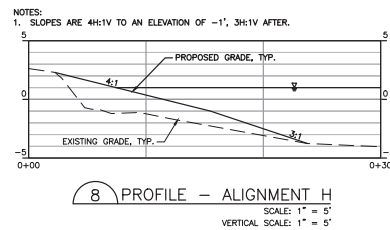
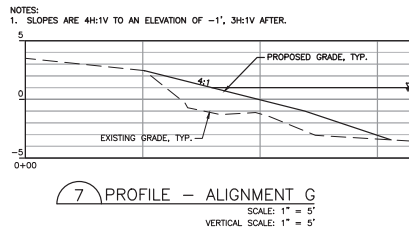
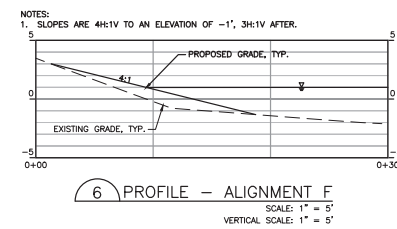
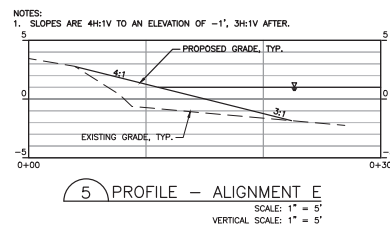
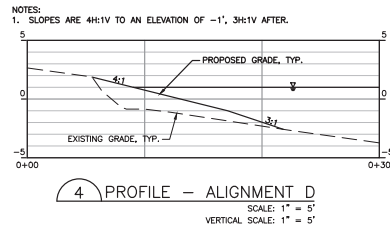
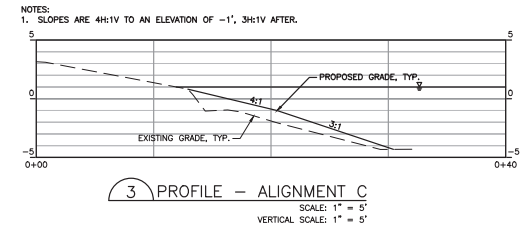
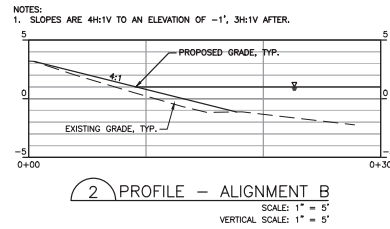
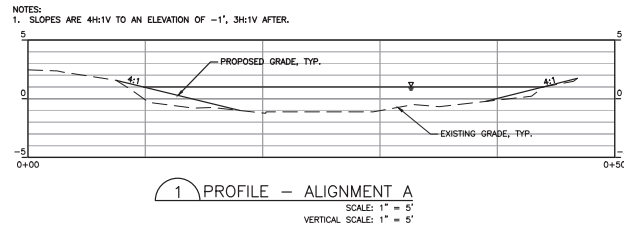


Figure 8. Phase 1 Bank Cross Sections

PROJECT NO.	TCB2201
DATE	6/29/2022
REVISION	1
DATE	XX/XX/XX
BY	

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TOWN OF CAROLINA BEACH
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BANK CROSS SECTIONS

PROJECT NO.
TCB2201

C-1.1

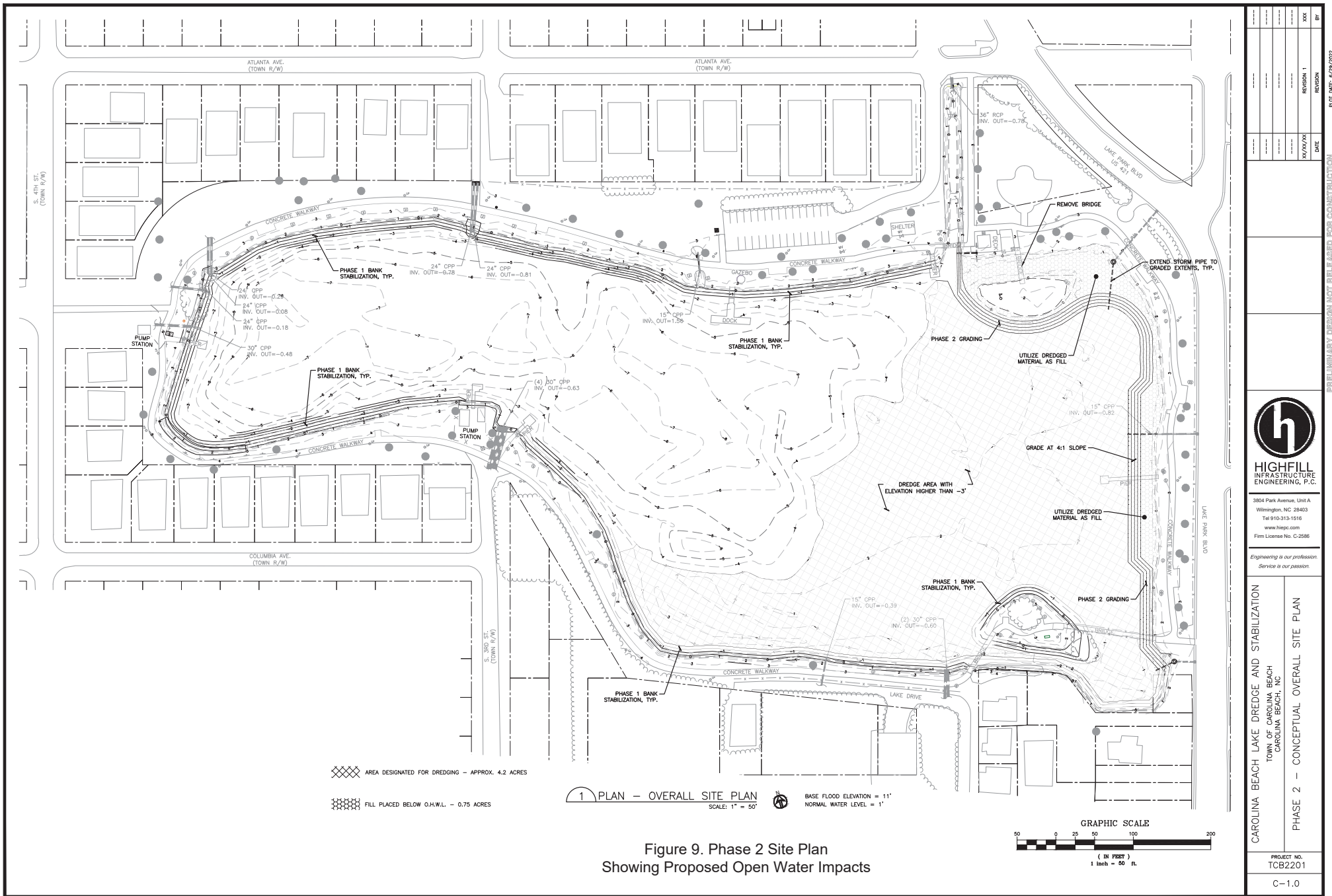


Figure 9. Phase 2 Site Plan
Showing Proposed Open Water Impacts

Carolina Beach, North Carolina



Town of Carolina Beach | 12.04.2019

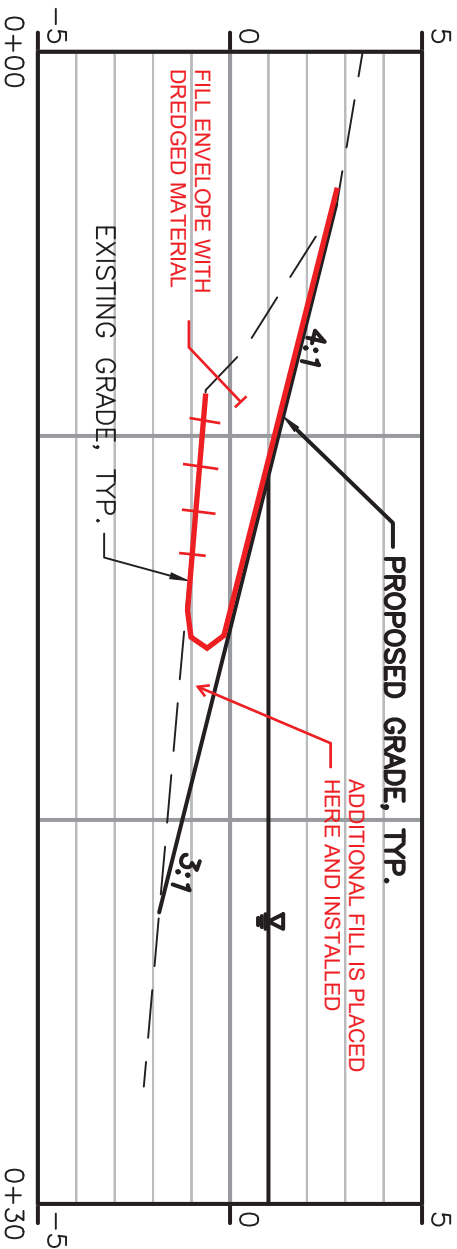


Figure 10. Preliminary Master Plan for Park Improvements (Phase 2)

DREDGESOX - MATERIAL IS TACKED INTO PLACE AND THEN FOLDED TO CREATE AN ENVELOPE TO HOLD DREDGED MATERIAL TO MATCH THE PROPOSED GRADE.

NOTES:

1. SLOPES ARE 4H:1V TO AN ELEVATION OF -1', 3H:1V AFTER.



5 PROFILE - ALIGNMENT E

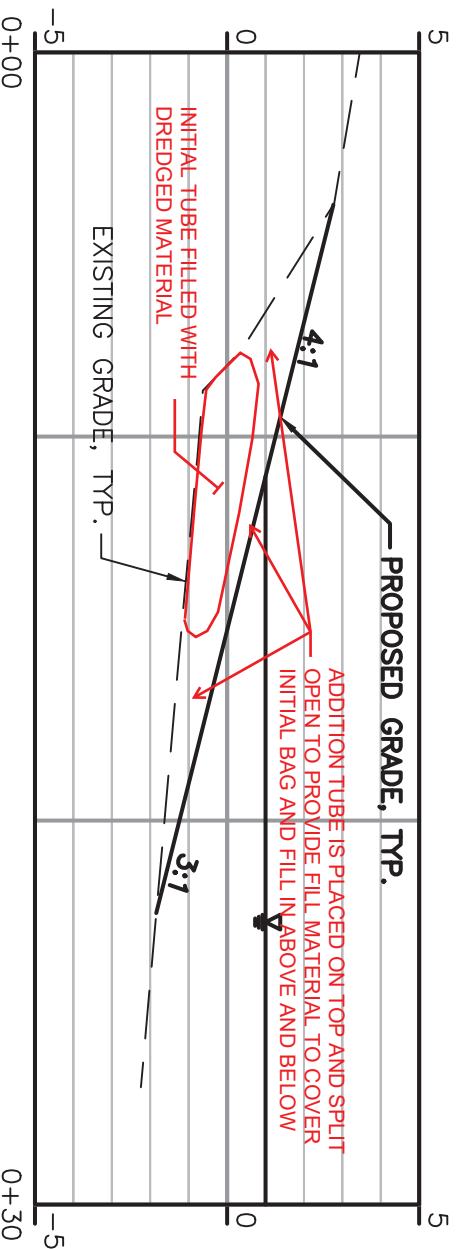
SCALE: 1" = 5'

VERTICAL SCALE: 1" = 5'

GEO-TUBE - TUBE IS FILLED AND INSTALLED AND SHAPED TO MATCH THE PROPOSED CONTOURS. TYPICALLY ONE BAG IS INSTALLED AND A TOP BAG IS INSTALLED AND SACRIFICIED.

NOTES:

1. SLOPES ARE 4H:1V TO AN ELEVATION OF -1', 3H:1V AFTER.



5 PROFILE - ALIGNMENT E

SCALE: 1" = 5'

VERTICAL SCALE: 1" = 5'

Figure 11. Schematic Cross Section of Proposed Bank Stabilization