HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING

NATURAL RESOURCES PROTECTION ACT TIER 3 PERMIT APPLICATION

TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

FOR BOWDEN POINT PROPERTIES LOADING PIER

Prospect, Maine

Applicant:

Bowdoin Point Properties, LLC

ATTN: Jim Salmons | P.O. Box 57008| Virginia Beach, VA 23457

FEBRUARY 2022

JN: 12617.001

Report Prepared By:

Haley Ward

One Merchants Plaza, Suite 701 | Bangor, Maine 04401

Corporate Office

One Merchants Plaza

Suite 701

Bangor, ME 04401

T: 207.989.4824

F: 207.989.4881

HALEYWARD.COM

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NRPA PERMIT APPLICATION FORM

ATTACHMENTS

NRPA PERMIT APPLICATION FORM

Application Form

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Certificate of Good Standing

Public Notice Filing and Certification

L-29552-TG-D-N ATS# 89129 $714.00 credit 02/24/2022

APPLICATION FOR A NATURAL RESOURCES PROTECTION ACT PERMIT

➔PLEASE TYPE OR PRINT IN *BLACK INK ONLY*

1. Name of Applicant:	**BOWDEN POINT PROPERTIES, LLC Attn: Jim Salmons**	**5 Name of Agent: (if applicable)**	**HALEY WARD, Inc. Attn: CHIP HASKELL**
Haley ward	**P.O. BOX 57008 VIRGINIA BEACH, VA 23457**	**6 Agent's Mailing Address:**	**ONE MERCHANTS PLAZA, STE 701 BANGOR, MAINE 04401**
3. Applicant's Daytime Phone #:	**757-409-0246**	**7 Agent's Daytime Phone #:**	**(207) 989-4824**
4 Applicant's Email Address Required from *either* applicant or agent:	**crystal@salmonsinc.com**	**8. Agent's Email Address:**	**chaskell@haleyward.com**

9. Location of Activity: (Nearest Road, Street, Rt.#)	**BOWDEN POINT ROAD**	**10. Town:**	**PROSPECT**	**11. County:**	**WALDO**

12A. Significant Groundwater well? ☒ **Yes** **OR** ❑ No

12. Type of Resource: (Check all that apply)	☒ **River, stream or brook** ❑ Great Pond ❑ Coastal Wetland ☒ **Freshwater Wetland** ❑ Wetland Special Significance ❑ Significant Wildlife Habitat ❑ Fragile Mountain	**13. Name of Resource:**	**PENOBSCOT RIVER, UNNAMED WELTANDS**
		14. Amount of Impact: (Sq.Ft.)	**Fill:** **49,621 (PENOBSCOT RIVER)** **14,038 (WETLANDS)** **Dredging/Veg Removal/Other:**

15. Type of Wetland: (Check all that apply)	☒ Forested ❑ Scrub Shrub ❑ Emergent ❑ Wet Meadow ❑ Peatland ❑ Open Water ❑ Other_____	**FOR FRESHWATER WETLANDS**		
		Tier 1	*Tier 2*	***Tier 3***
		❑ 0 - 4,999 sq ft. ❑ 5,000-9,999 sq ft ❑ 10,000-14,999 sq ft.	❑ 15,000 – 43,560 sq. ft.	❑ > 43,560 sq. ft. or ☒ **smaller than 43,560 sq ft., not eligible for Tier 1**

16. Brief Activity Description	**APPLICANT PROPOSES TO CONSTRUCT AN APPROXIMATLY 50-ACRE MINERAL EXTRACTION PROCESSING FACILITY AND ASSOCIATED PARKING/DRIVEWAY AREAS. PROJECT ALSO INCLUDES A PIER TO BE USED FOR THE SUPPORT OF ADJACENT QUARRYING ACTIVITIES.**

17. Size of Lot or Parcel:	❑ ___square feet, or ☒ **144 acres**	UTM Northing: **4938587 N**	UTM Easting: **190512714 E**
18. Title, Right or Interest:	☒ **own** ❑ lease ❑ purchase option ❑ written agreement		

19. Deed Reference Numbers:	**Book#: 4474**	**Page#: 242**	**20. Map and Lot Numbers:**	**Map #: 11**	**Lot #: 29**		
21. DEP Staff Previously Contacted:	**MARIA EGGETT**		**22. Part of a larger project:**	☒ **Yes** ❑ No	**After-the-Fact:**	❑ Yes ☒ **No**	
23. Resubmission of Application?	❑ Yes➔ ☒ **No**	**If yes, previous application #**	N/A	**Previous project manager:**	N/A		
24. Written Notice of Violation?	❑ Yes ➔ ☒ **No**	**If yes, name of DEP enforcement staff involved:**	**N/A**	**25. Previous Wetland Alteration:**	❑ Yes ☒ **No**		

26. Detailed Directions to the Project Site:	**FROM BREWER, TAKE ROUTE 15 SOUTH FOR APPROXIMATELY 19 MILES. IN BUCKSPORT, TURN RIGHT ONTO ROUTE 1, THEN RIGHT ONTO ROUTE 174. FOLLOW ROUTE 174 FOR 1.4 MILES, THEN TURN RIGHT ONTO BOWDEN POINT ROAD. FOLLOW NORTH FOR 1.8 MILES, PROJECT DRIVEWAY ON RIGHT. ACTIVITY LOCATED ON NORTHERN SHORELINE OF BOWDEN POINT.**

27. TIER 1	**TIER 2/3 AND INDIVIDUAL PERMITS**	
❑ Title, right or interest documentation	☒ Title, right or interest documentation	☒ Erosion Control/Construction Plan
❑ Topographic Map	☒ Topographic Map	☒Functional Assessment (Attachment 3), if required
❑ Narrative Project Description	☒ Copy of Public Notice/Public Information Meeting Documentation	☒ Compensation Plan (Attachment 4), if required
❑ Plan or Drawing (8 1/2" x 11")	☒ Wetlands Delineation Report (Attachment 1) that contains the Information listed under Site Conditions	☒ Appendix A and others, if required
❑ Photos of Area	☒ Alternatives Analysis (Attachment 2) including description of how wetland impacts were Avoided/Minimized	☒ Statement/Copy of cover letter to MHPC
❑ Statement of Avoidance & Minimization		❑ Description of Previously Mined Peatland, if required
❑ Statement/Copy of cover letter to MHPC		

28. FEES, Amount Enclosed:	**$714.00**

CERTIFICATIONS AND SIGNATURES LOCATED ON PAGE 2

IMPORTANT: IF THE SIGNATURE BELOW IS NOT THE APPLICANT'S SIGNATURE, ATTACH LETTER OF AGENT AUTHORIZATION SIGNED BY THE APPLICANT.

By signing below the applicant (or authorized agent), certifies that he or she has read and understood the following:

DEP SIGNATORY REQUIREMENT

PRIVACY ACT STATEMENT

Authority: 33 USC 401, Section 10; 1413, Section 404. Principal Purpose: These laws require permits authorizing activities in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor a permit be issued.

CORPS SIGNATORY REQUIREMENT

USC Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry shall be fines not more than $10,000 or imprisoned not more than five years or both. I authorize the Corps to enter the property that is subject to this application, at reasonable hours, including buildings, structures or conveyances on the property, to determine the accuracy of any information provided herein.

DEP SIGNATORY REQUIREMENT

"I certify under penalty of law that I have personally examined the information submitted in this document and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I authorize the Department to enter the property that is the subject of this application, at reasonable hours, including buildings, structures or conveyances on the property, to determine the accuracy of any information provided herein. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Further, I hereby authorize the DEP to send me an electronically signed decision on the license I am applying for with this application by emailing the decision to the address located on the front page of this application (see #4 for the applicant and #8 for the agent)."

_____ Date: 02/17/2022

SIGNATURE OF AGENT/APPLICANT

NOTE: Any changes in activity plans must be submitted to the DEP and the Corps in writing and must be approved by both agencies prior to implementation. Failure to do so may result in enforcement action and/or the removal of the unapproved changes to the activity.

From: Chip Haskell
To: Chelsea Getchell
Cc: Drew Olehowski
Subject: Fwd: Agent Authorization
Date: Thursday, February 17, 2022 11:29:08 AM
Attachments: image948468.png
image817357.png
image849596.png
image044777.png
image643486.png
image404734.png

Found it

Sent from my iPhone

Begin forwarded message:

HALEY WARD
AN EMPLOYEE-OWNED COMPANY

Chip Haskell, PE
Project Manager
t: 207.989.4824 m: 207.991.0756
a: One Merchants Plaza, Suite 701, Bangor, ME 04401

From: Maryann McChesney <mmcchesney@salmonsinc.com>
Date: June 7, 2021 at 9:40:38 AM EDT
Subject: Agent Authorization

Chip,
This email serves to authorize Haley Ward to act as our agent for permitting for the Pier, Processing Area, and Quarry. Please let us know if you need anything further.

Regards,

Maryann McChesney
Chief Financial Officer
Salmons, Inc. & Affiliates
PO Box 57008
Virginia Beach, VA 23457
Phone (757)426-6824

Receipt # 147527 WALDO SS: RECEIVED
VOL 4474 PG 242
Instr # 2020-1892
03/09/2020 09:37:18 AM
10 Pages
ATTEST: Stacy L Grant, Waldo Co Registry of Deeds

QUITCLAIM DEED
With Covenant

"MAINE REAL ESTATE TRANSFER TAX PAID"

We, **SARI LEVY**, of Boulder, County of Boulder, and State of Colorado, whose mailing address is 2701 Juniper Avenue, Boulder, CO 80304; **REBEKAH LEVY, A/K/A REBEKAH HOCHHAUSER**, of Boise, County of Ada, and State of Idaho, with a mailing address of 1312 E. Spring Court, Boise, ID 83712; and **PHILIP LEVY**, of Irvine, County of Orange, and State of California, with a mailing address of 20 Rainbow Lake, Irvine, CA 92614, for consideration paid, do hereby **grant with quitclaim covenants**, to **BOWDEN POINT PROPERTIES**, with a mailing address of P.O. Box 57008, Virginia Beach, Virginia, 23457, the real property, together with any buildings thereon, situated in **PROSPECT**, County of Waldo, and State of Maine, more particularly bounded and described as follows, to wit:

> "FIRST: All and the same premises conveyed to Paul H. Gerard and Stanley I. Holter by James D. Holbrook by warranty deed dated April 12, 1943, and recorded in Waldo County Registry of Deeds in Book 439, Page 20 and in said deed bounded and described as follows: Beginning at the northeasterly corner of land of Warren Brown, (formerly George A. Avery) at the shore of Penobscot River; thence N. 73° West by said Brown's land about 114 rods to a cedar fence at land of Earl Bowden; thence N. 13 ½° East by said Bowden land 54 ½ rods; thence N. 67 ½° West by land of said Bowden and fence 18 rods to land of Charles H. Baker at a stone wall; thence N. 9° East 48 rods by said stone wall to a cedar stake; thence North 80° West by land of Mrs. J. D. Holbrook 8 rods to a cedar stake at land of Charles H. Baker; thence North 14 ½° West 12 rods to an apple tree near the roadway; thence North 10 ¾° East 15 4/5 rods by said roadway to a split stone; thence North 81° West 7 1/3 rods to a split stone; thence North 14° East 47 rods to the Penobscot River and stone; thence easterly and southeasterly by said River about 290 rods to the place of beginning.
>
> SECOND: All and the same seven lots or parcels of land with the buildings thereon which was conveyed to Paul H. Gerard and Stanley I. Holster by

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151 High St., Belfast, ME 04915

Elpheretta Holbrook by her warranty deed dated April 12, 1943, and recorded in Waldo County Registry of Deeds in book 439, page 18 and in said deed bounded and described as follows:

1st lot: Beginning on the west side of a private way twelve rods south of a wall at a split stone; thence westerly nine rods six feet to stake and stones at Henry Stinsons East line; thence southerly by said Stinson's easterly line seventy-three rods to the Town Road to a stake and stones; thence easterly by Augustus Brown's southern line thirty-three rods to a split stone; thence northerly on a straight line twenty-three rods to a split stone with a mortice in it, on the west side of a private way leading across a field into the pasture of the late Jeremiah Crockett; thence northwesterly by said road or private way to first bounds. Containing about eleven acres, more or less. Reserving the burying ground on same, twenty feet square, and the right to pass to and from same to Isaich A. Crockett and his heirs forever. Being the same premises conveyed to Lizzie D. Grover by Ephraim Sullivan by warranty deed dated October 8, 1880, recorded in Waldo Registry of Deeds in Volume 192, Page 77.

2nd lot: Also another lot or parcel of land located in said Prospect, Maine, being that part and all of the land conveyed to Samuel S. Lane by Henry N. Stinson and Susan S. Stinson as per their deed dated June 5, 1861, recorded in Waldo Registry of Deeds August 28, 1861, Book 115, Page 220 where a more particular description may be had. Meaning to sell and convey all the aforementioned deed conveyed to Henry N. Stinson by Samuel S. Lane by deed recorded in Waldo Registry of Deeds, Book 132, Page 201, together with the barn thereon.

3rd lot: Also a certain lot or parcel of land situated in said Prospect and bounded as follows: Beginning at the southwest corner of Augustus Brown's home lot or lot No. 6 southwest corner; thence North five degrees East fifty-three rods seventeen links to a spruce stake marked 1846; thence South eighty-two degrees East twenty and one-half rods by land of Daniel Glidden to a yellow birch tree; thence South five degrees West fifty-three rods and seventeen links to a cedar stake marked thus #; thence North eighty-two degrees West twenty and a half rods to the first mentioned bound. Containing six acres and one hundred and forty square rods and being the same premises conveyed to Lizzie D. Moore by Jane Susan Stinson March 27, 1908, recorded in Waldo Registry, Book 291, Page 25.

4th lot: A certain lot or parcel of land situated in said Prospect, described as follows: Beginning at a yellow birch tree at the northwesterly corner of the lot adjoining the Henry Stinson lot, so-called; thence running easterly twenty and one-half rods to land of Lizzie Moore to stake and stones;

thence running fifty three rods and seventeen links southerly to stake and stones; thence westerly by the School House lot, so-called, twenty and one-half rods to stake and stones; thence northerly fifty-three rods and seventeen links to place of beginning.

5th lot: Also another parcel of land situated in said Prospect bounded as follows: Beginning at the northeasterly corner of lot above described; thence running easterly to the Jerry Crockett road; thence southerly by the west side of the Jerry Crockett road to land of George A. Avery; thence westerly by said Avery land to the southeasterly corner of lot above described and thence northeasterly to the place of beginning.

6th lot: Also another lot or parcel of land situated in said Prospect and bounded and described as follows: Beginning on the west side of the Jerry Crockett road at the limit of the road; thence running southerly by the west side of said Crockett road to a stone post; thence northwesterly at right angles with the first bound twenty-eight rods; thence easterly to point of beginning.

7th lot: Also another parcel of land situated in said Prospect, being the same premises conveyed by Elpheretta Holbrook to Charles Baker by deed dated December 11, 1929, recorded in Book 407, Page 276, bounded and described as follows: Bounded southerly, easterly and northerly by land of Elizabeth H. Babcock (formerly land of James D. Holbrook); bounded westerly by land of Charles Baker (formerly land of Lizzie D. Moore); containing one acre, more or less, together with the use in common with said Lizzie D. Moore, her heirs and assigns (which is to be perpetual) of the old Crockett Path, so-called, which said path is not to be obstructed. Said premises being the same conveyed to the said Elpheretta Holbrook by Elsie A. Hall by deed dated May 24, 1919, recorded in Book 337, Page 193.

Meaning and intending to convey and hereby conveying all and the same premises conveyed to the within Grantor by Milton Leonard Clark et ux by deed dated August 26, 1960, recorded in Waldo County Registry of Deeds in Book 580, Page 426."

ALSO HEREBY CONVEYING any interest received by virtue of a Quitclaim Deed from Raymond P. Seamans and Regina Seamans to Harris S. Levy, dated September 30, 2002 and recorded in the Waldo County Registry of Deeds in Book 2310, at Page 228.

ALSO HEREBY CONVEYING any interest received by virtue of a Release Deed from Edward Perry and Miriam Perry to Harris S. Levy, dated December 17, 2002 and recorded in the Waldo County Registry of Deeds in Book 2350, at Page 108.

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EXCEPTING THEREFROM any interest conveyed by virtue of a Quitclaim Deed with covenant from Harris S. Levy to Raymond P. Seamans and Regina Seamans dated September 19, 2002, and recorded in the Waldo County Registry of Deeds in Book 2310, at Page 230.

EXCEPTING THEREFROM any interest conveyed by virtue of a Release Deed from Harris S. Levy to Edward Perry and Miriam Perry dated December 23, 2002, and recorded in the Waldo County Registry of Deeds in Book 2350, at Page 106.

EXCEPTING THEREFROM any interest conveyed by virtue of a Release Deed from Harris S. Levy to Sylvia R. Brassbridge and Gerald P. Brassbridge, Sr. dated December 23, 2002, and recorded in the Waldo County Registry of Deeds in Book 2356, at Page 295.

The above described premises is subject to the terms of a Stipulation to Judgment from the State of Maine Superior Court (Docket # RE-01-015) as recorded in the Waldo County Registry of Deeds in Book 2356, at Page 342.

ALSO CONVEYING a fifty foot (50') right-of-way for all purposes of a way including utilities along the gravel road located on the westerly bound of the parcel described in Book 822, Page 869 and known as the Annabelle Green Road, which said right-of-way shall be twenty-five feet (25') on either side of the centerline of said gravel road aforementioned which said right-of-way shall be used in common with others as described in Deeds recorded in Book 2350 at Pages 106 and 108."

MEANING AND INTENDING to convey and hereby all and the same premises described in a Deed of Distribution from the Estate of Harris S. Levy to Sari Levy, Rebekah Levy, a/k/a Rebekah Hochhauser, and Philip Levy, dated March 22, 2019 and recorded April 18, 2019 in the Waldo County Registry of Deeds in Volume 4364, at Page 179.

WITNESS my hand and seal this 23rd day of Jan, 2020.

SIGNED, SEALED and DELIVERED
in presence of

Witness

Sari Levy

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thence running fifty three rods and seventeen links southerly to stake and stones; thence westerly by the School House lot, so-called, twenty and one-half rods to stake and stones: thence northerly fifty-three rods and seventeen links to place of beginning.

5th lot: Also another parcel of land situated in said Prospect bounded as follows: Beginning at the northeasterly corner of lot above described; thence running easterly to the Jerry Crockett road; thence southerly by the west side of the Jerry Crockett road to land of George A. Avery; thence westerly by said Avery land to the southeasterly corner of lot above described and thence northeasterly to the place of beginning.

6th lot: Also another lot or parcel of land situated in said Prospect and bounded and described as follows: Beginning on the west side of the Jerry Crockett road at the limit of the road; thence running southerly by the west side of said Crockett road to a stone post; thence northwesterly at right angles with the first bound twenty-eight rods; thence easterly to point of beginning.

7th lot: Also another parcel of land situated in said Prospect, being the same premises conveyed by Elpheretta Holbrook to Charles Baker by deed dated December 11, 1929, recorded in Book 407, Page 276, bounded and described as follows: Bounded southerly, easterly and northerly by land of Elizabeth H. Babcock (formerly land of James D. Holbrook); bounded westerly by land of Charles Baker (formerly land of Lizzie D. Moore); containing one acre, more or less, together with the use in common with said Lizzie D. Moore, her heirs and assigns (which is to be perpetual) of the old Crockett Path, so-called, which said path is not to be obstructed. Said premises being the same conveyed to the said Elpheretta Holbrook by Elsie A. Hall by deed dated May 24, 1919, recorded in Book 337, Page 193.

Meaning and intending to convey and hereby conveying all and the same premises conveyed to the within Grantor by Milton Leonard Clark et ux by deed dated August 26, 1960, recorded in Waldo County Registry of Deeds in Book 580, Page 426."

ALSO HEREBY CONVEYING any interest received by virtue of a Quitclaim Deed from Raymond P. Seamans and Regina Seamans to Harris S. Levy, dated September 30, 2002 and recorded in the Waldo County Registry of Deeds in Book 2310, at Page 228.

ALSO HEREBY CONVEYING any interest received by virtue of a Release Deed from Edward Perry and Miriam Perry to Harris S. Levy, dated December 17, 2002 and recorded in the Waldo County Registry of Deeds in Book 2350, at Page 108.

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STATE OF COLORADO
COUNTY OF San Miguel, SS. 1/23, 2020

Personally appeared the above named Sari Levy and acknowledged the foregoing instrument to be her free act and deed.

Before me, [signature]
Notary Public
Print/type name: Damon Todd
Commissions expires: 3/27/2022

DAMON TODD
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20144013547
MY COMMISSION EXPIRES MARCH 27, 2022

Prepared by the Office of
MAILLOUX & MARDEN, P.A.
151 High St., Belfast, ME 04915

WITNESS my hand and seal this_____ day of _____, 2020.

SIGNED, SEALED and DELIVERED
in presence of

_____ _____
Witness Rebekah Hochhauser

STATE OF IDAHO
COUNTY OF _____, SS. _____, 2020

Personally appeared the above named Rebekah Hochhauser and acknowledged the foregoing instrument to be her free act and deed.

Before me, _____
Notary Public
Print/type name: _____
Commissions expires: _____

Prepared by the Office of
MAILLOUX & MARDEN, P.A.
151 High St., Belfast, ME 04915

WITNESS my hand and seal this 23rd day of January, 2020.

SIGNED, SEALED and DELIVERED
in presence of

Witness

Rebekah Hochhauser
Rebekah Hochhauser

STATE OF IDAHO
COUNTY OF Ada, SS. 23rd January, 2020

Personally appeared the above named Rebekah Hochhauser and acknowledged the foregoing instrument to be her free act and deed.

VICTOR BEAUCHAMP
COMMISSION NUMBER 59698
NOTARY PUBLIC
State of Idaho
My Commission Expires 05/23/2024

Before me,
Notary Public
Print/type name: Victor Beauchamp
Commissions expires: 5-23-2024

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151 High St., Belfast, ME 04915

WITNESS my hand and seal this January day of 22, 2020.

SIGNED, SEALED and DELIVERED
in presence of

_____ _____
Witness Philip Levy

STATE OF CALIFORNIA
COUNTY OF _____, SS. _____, 2020

Personally appeared the above named Philip Levy and acknowledged the foregoing instrument to be his free act and deed.

Before me, _____
Notary Public
Print/type name: _____
Commissions expires: _____

Probate.Levy2BowdenPointProperties.Prospect.2020.kj

SEE ATTACHED
CALIFORNIA
ACKNOWLEDGEMENT

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151 High St., Belfast, ME 04915

CALIFORNIA ALL-PURPOSE
CERTIFICATE OF ACKNOWLEDGMENT
(CALIFORNIA CIVIL CODE § 1189)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
COUNTY OF Orange)

On 01/22/2020 before me, David L Quick-Notary Public
(*Date*) (*Here Insert Name and Title of the Officer*)

personally appeared Philip Abraham Levy,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS ~~my hand~~ and official seal.

DAVID L. QUICK
Notary Public - California
Orange County
Commission # 2311348
My Comm. Expires Nov 3, 2023

Signature of Notary Public (Notary Seal)

ADDITIONAL OPTIONAL INFORMATION

Description of Attached Document

Title or Type of Document: Quitclaim Deed With Covenant Document Date: 01/22/2020

Number of Pages: 4 Signer(s) Other Than Named Above: NA

Additional Information: NA

revision date 01/01/2015

Corporate Name Search

Additional Addresses

Subscriber activity report

This record contains information from the CEC database and is accurate as of: Fri Oct 01 2021 08:54:19. Please print or save for your records.

Legal Name	Title	Name	Charter #	Status
BOWDEN POINT PROPERTIES	Clerk	EDMOND J. BEAROR	20180697 D	GOOD STANDING

Home Address (of foreign entity)	Other Mailing Address	Address in Maine
	84 HARLOW STREET BANGOR, ME 04401	

Obtain a Certified Copy of this record

Close this window

If you encounter technical difficulties while using these services, please contact the Webmaster. If you are unable to find the information you need through the resources provided on this web site, please contact the Bureau's Reporting and Information Section at 207-624-7752 or e-mail or visit our Feedback page.

FORM C 08/08

PUBLIC NOTICE FILING AND CERTIFICATION

The DEP Rules, Chapter 2, require an applicant to provide public notice for all Site Location projects with the exception of minor revisions and condition compliance applications. In the notice, the applicant must describe the proposed activity and where it is located. **"Abutter"** for the purposes of the notice provision means any person who owns property that is BOTH (1) adjoining and (2) within one mile of the delineated project boundary, including owners of property directly across a public or private right of way.

1. **Newspaper:** You must publish the Notice of Intent to File in a newspaper circulated in the area where the activity is located. The notice must appear in the newspaper within 30 days prior to the filing of the application with the Department. You may use the attached Notice of Intent to File form, or one containing identical information, for newspaper publication and certified mailing.

2. **Abutting Property Owners:** You must send a copy of the Notice of Intent to File by certified mail to the owners of the property abutting the activity. Their names and addresses can be obtained from the town tax maps or local officials. They must receive notice within 30 days prior to the filing of the application with the Department.

3. **Municipal Office:** You must send a copy of the Notice of Intent to File and a **duplicate of the entire application** to the Municipal Office.

   ATTACH a list of the names and addresses of the owners of abutting property.

CERTIFICATION

By signing below, the applicant or authorized agent certifies that:

1. A Notice of Intent to File was published in a newspaper circulated in the area where the project site is located within 30 days prior to filing the application;
2. A certified mailing of the Notice of Intent to File was sent to all abutters within 30 days of the filing of the application;
3. A certified mailing of the Notice of Intent to File, and a duplicate copy of the application was sent to the town office of the municipality in which the project is located; and
4. Provided notice of, if required, and held a public informational meeting in accordance with Chapter 2, Rules Concerning the Processing of Applications, Section 14, prior to filing the application. Notice of the meeting was sent by certified mail to abutters and to the town office of the municipality in which the project is located at least ten days prior to the meeting. Notice of the meeting was also published once in a newspaper circulated in the area where the project site is located at least seven days prior to the meeting.

The Public Informational Meeting was held on

February 4, 2022

Approximately 23 members of the public attended the Public Informational Meeting.

Agent

Signature of Applicant or authorized agent Date 2/4/2022

ATTACHMENT 1

PROJECT DESCRIPTION

ATTACHMENT 1

PROJECT DESCRIPTION

OVERVIEW

The Applicant, Bowden Point Properties, proposes to construct a processing facility associated with the nearby quarry operations on Bowden Point in Prospect, Maine (Site). The Site operations will consist of crushing and processing material from the quarry prior to being loaded onto marine vessels.

PURPOSE AND NEED

Bowden Point Properties is planning to construct a rock quarry and a processing facility, off Bowden Point Road in Prospect, Maine. This development will be solely for mineral extraction activities. This Natural Resources Protection Act Tier III Permit Application is for all wetland disturbance within the development area, and all activities within 75' of the Penobscot River, including a new pier used to load materials onto a barge for transport,

ACTIVITY DESCRIPTION

The Applicant proposes to construct a processing facility, and a pier to load vessels in support of proposed quarrying activities. Also included in this permit application is the proposed site access road, and any other shoreline work to assist in the pier installation to a distance 75 feet from the high-water line.

The processing facility will include an 80,000 square foot (SF) building, parking and driveway areas, an access road, a pier on the Penobscot River, and approximately 50 acres of storage and processing areas.

The proposed pier will be T-shaped and will extend approximately 710 feet north onto the Penobscot River off the northern shore of Bowden Point. The pier will include three sections: a drivable trestle that will allow mineral materials to be transported to a platform adjacent to the vessel, a series of cofferdams to secure the vessel, and a telescopic barge loader.

The drivable portion will consist of an initial 40' wide by 180' long rock fill section, to be located on an existing rock fill area which is believed to be a historic dock. The trestle will be 40' wide by 440' long. This portion of the pier will be placed on cofferdams, 50' in diameter. A 14-foot-wide material conveyor belt will also be utilized along the pier's entire length.

The docking section of the pier will consist of a 150-wide loading area, and approximately 650' of 50-foot diameter cofferdams, placed 175' on center, roughly parallel with the shore. Water depth at the end of the pier is approximately 35 feet at low tide while the vessels are anticipated to require 30 feet of draft when loaded.

The telescopic barge loader is 85' long and 14' wide.

The site access road will be gravel and 36' wide, and approximately 4,700' long. Within 75' of the shoreline, the road will be sloped at approximately 7%. Vegetated buffers and soil filters will be utilized along the roadway for stormwater management, as shown in the Site Law permit for this development.

Historic Impacts to the protected natural resource on this property (Penobscot River) consist of previously filled areas on Bowden Point. These areas are made of stone and was likely used as a pier which extend approximately 300' off the northern bank of Bowden Point. It is unknown when this area was constructed but it is likely more than 100 years ago.

In addition to impacts associated with the Pier, impacts to Freshwater Wetlands are proposed for the processing area.

Natural Resource impacts associated with the proposed Salmons project are summarized in Table 1, below, and are shown in NRPA Attachment 5 – Site Plans, on the *Overall Site Plan - Sheet C101.*

Table 1. Natural Resource Impacts – Prospect Quarry

	Calculation (sq ft)	Comments
Direct Impact (Penobscot River)	49,621	Cofferdams, Cofferdam connectors, and fill within mean high-water line
Direct Impact (Wetlands)	14,038	Freshwater Fill (Processing Area)
Temporary Impact	0	None Anticipated
Indirect/Conversion Impact	24,825	Indirect Impacts consist of total pier deck area.
TOTAL PIER IMPACT, MDEP (Penobscot River)	74,446	Direct and Indirect Impacts within mean high-water line of Penobscot River

Under the Maine Natural Resources Protection Act, the project is required to avoid and minimize disturbance to natural resources and to ensure that no unreasonable impact will occur. The proposed project has been designed to avoid and minimize impacts to natural resources to the greatest extent practicable, as described in the following section NRPA Attachment 2 – Alternatives Analysis.

ATTACHMENT 1A

Wetland Delineation Summary

Inter-Tidal Wetland Impact Area

The inter-tidal wetland impact area is located within the lower limits of the Penobscot river estuary prior to discharge into Penobscot Bay. The intertidal wetlands were identified within this area as the area between the high tide elevation and the low tide elevation. Riverbanks are very steep in the project area and no significant tidal marsh areas were noted.

The river would be classified as a high energy channel in the project area and typical upper, mid, and lower intertidal zones were noted. Substratum in the project area consists of boulder beach, mixed coarse and fines as well as ledge. A visual epifauna survey of the project area identified salt marsh grasses and legumes in the upper zone as well as evidence of filamentous green algae and possible cyanobacteria. The mid and lower zones were dominated by brown and red seaweed.

Areas upstream and down stream of the historic rock fill area were also found to include significant areas of mixed coarse and fines beach areas devoid of vegetation.

In-River Impact Area

The in-river impact areas of the project include disturbances to the river bottom sediments. Boring investigations in these areas determined that the bottom sediments consist of deep marine deposits and organic matter. Due to water depts it is not believed that these areas contain significant vegetation.

Freshwater Wetland Impact Area

Freshwater wetlands on the project site were mapped in accordance with the 1987 Federal Manual for mapping wetlands as published by the US Army Corps of Engineers. Wetland classification IS based on the Cowardin classification system.

Identified wetlands are seasonally saturated, palustrine, forested, deciduous and coniferous wetlands (PFO1&4) with portions that are scrub/shrub wetlands (PSS1) that are dominated by red maple, black spruce, gray birch, balsam fir, sensitive fern, interrupted fern, blue joint, sarsaparilla and sphagnum moss. Soils in the wetlands consisted of sandy loams and silt loams with a mottled and depleted substratum and met the ***F3, Depleted Matrix, Hydric Soil Indicator***. Indicators of hydrology in the wetlands were a combination of surface water, saturation and drainage.

ATTACHMENT 2

ALTERNATIVES ANALYSIS

ATTACHMENT 2

ALTERNATIVES ANALYSIS

ALTERNATIVES ANALYSIS – PROCESSING FACILITY

Several locations were considered for the construction of the processing facility. The selected location was chosen due to its proximity to other elements of the overall development and the minimal impact it will have on the surrounding community. The following Site alternatives were considered:

No Action Alternative

The No Action alternative maintains the Site condition in its current state. The facility would not be constructed on the Site. This alternative:

- Project Goals: Does not meet the goal of developing a facility capable of processing material from nearby quarry.
- Resource Impacts: No impacts to wetlands

Alternative Sites

Alternative site locations were considered elsewhere on Bowden Point. Selecting a location anywhere other than the northern most edge of Bowden Point would provide less buffering ability from nearby residential properties. The site location was heavily based on the pier location, as described below. Placing the facility as close to the pier as possible will create the least amount of disturbance and traffic generation.

Avoidance and Minimization

All proposed wetland impacts are associated with the processing facility portion of this project. The proposed development employed several avoidance and minimization measures on the Site.

Avoidance: Site layout was pursued with the locations of wetlands in consideration. The proposed access road was laid out to avoid any impacts to natural resources, other than two proposed stream crossings. Due to the size and grade requirements needed to construct the processing facility, the development will impact wetlands to meet necessary design needs for the site. There are no proposed wetland impacts within the Town's Shoreland Zone.

Minimization: During construction, proper use of erosion control measures will minimize the impact of construction on protected resources.

Several locations were considered for the construction of the pier. The selected location was chosen due to its proximity to other elements of the overall development, the minimal impact it will have on the surrounding community, and the avoidance of impacts to the Penobscot navigable channel. It also utilized a previously disturbed area to the greatest extent possible. The following Site alternatives were considered:

No Action Alternative

The No Action alternative maintains the Site condition in its current state. A pier would not be constructed on the Site. This alternative:

- Project Goals: Does not meet the goal of developing vessel loading capabilities. Would require extensive land-transport systems (i.e. trucks, trains) to deliver materials to Virginia. Through initial discussions with interested parties it was determined that land transport was not a preferred option given the large volume of trucks required.
- Resource Impacts: No impact to resources in river.

Alternative Southern Site

An alternative pier location was analyzed south of the proposed location on the eastern shore of Bowden Point. This alternative:

- Proximity to Larger Development: this pier location is approximately six times as far from the proposed quarrying area as the selected location. This would increase haul distance and reduce efficiency of the mineral processing operations.
- Local Community: This Site would require materials to be hauled through residential areas, creating noise and traffic issues. The selected Site is in an undeveloped area and avoids contact with the local residents.
- Navigable Channel: The width of the Penobscot River in this Site is approximately 3,300', versus the ~ 5,200' at the selected location. Constructing the pier in this location has more potential to interfere the with vessel traffic in the river.
- Water Depths: Water depths were analyzed throughout the Bowden Point area to determine how long the pier would need to be in order for the transport vessels to dock without running aground. Water depths were found to be deeper closer to shore along the northern bank, meaning the pier length and resource impacts could be kept to a minimum in the selected location.

Alternative Construction Methods

In the selected pier location, resource impacts have been kept to a minimum. The possible construction methods are as follows:

- Rock Pier: A rock pier would consist of a pier composed entirely of rock fill material. This method would require the most fill material, resulting in the maximum resource impact, but the lowest construction costs.

- Rock Filled Sheet Piles: The use of sheet piling would allow the rock fill material to be more contained than the previous alternative. The amount of fill material and resource impact would be less, but there would be additional costs for the sheet pile installation.
- Pile-Supported: The use a pile supported pier would require minimal rock fill material and construction costs associated this method will be the highest of all presented alternatives. While this option presents the least amount of resource impacts, the constructability was determined to be impractical due to the pier's position on the channel and the river's soil type. It would not be possible to design and construct this option while meeting standard design standards and construction methods needed to protect the supports from river's current and ice flow.
- Cofferdam-Supported: The proposed construction method is to use a cofferdam-supported pier. This method will require minimal rock fill material and will have the smallest amount of resource impact other than the Pile-supported alternative. Construction costs associated this method will be slightly lower than the Pile-supported alternative.
- Shorter Pier: A shorter pier would result in less impact to the river bottom, but would limit the size of vessel that it could service without bottoming on the river bottom. Ultimately the project is not expected to be economically viable if the vessel size is smaller than what is proposed.

ATTACHMENT 3

FUNCTIONAL ASSESSMENT

ATTACHMENT 3

FUNCTIONAL ASSESSMENT

Summary

The proposed project wetland impacts include a very typical river system tidal area and typical forested wetland areas. At this time the applicant has not completed an extensive functional assessment since the areas disturbed do not have any special or unique functions or values. The applicant is also proposing compensation under the "in-Lieu" fee program with set compensation based on area disturbed and not associated with identified functions and values.

ATTACHMENT 4

COMPENSATION

ATTACHMENT 4

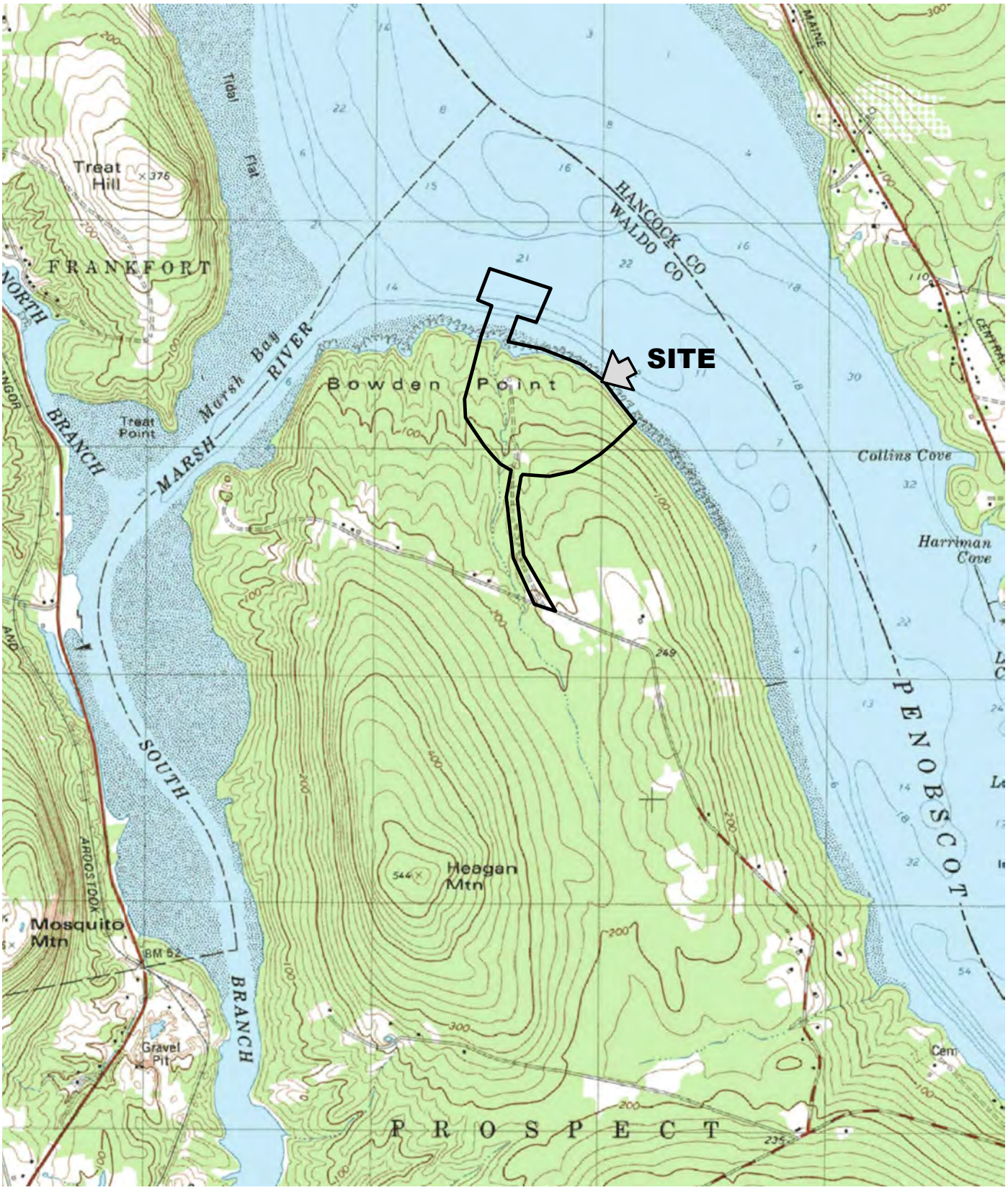
COMPENSATION

Summary

The Applicant is proposing to provide compensation for project impacts under the "I-Lieu" fee program. We anticipate that this fee will be set once the project has been through department review.

ATTACHMENT 5

SITE LOCATION MAP



SOURCE:
U.S.G.S. TOPOGRAPHIC QUADRANGLE
BUCKSPORT
@ 1:24,000

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

BOWDEN POINT PROPERTIES, LLC
PROSPECT, MAINE
LOCATION MAP

2021-12-20
12617.001

ATTACHMENT 6

SITE PHOTOGRAPHS

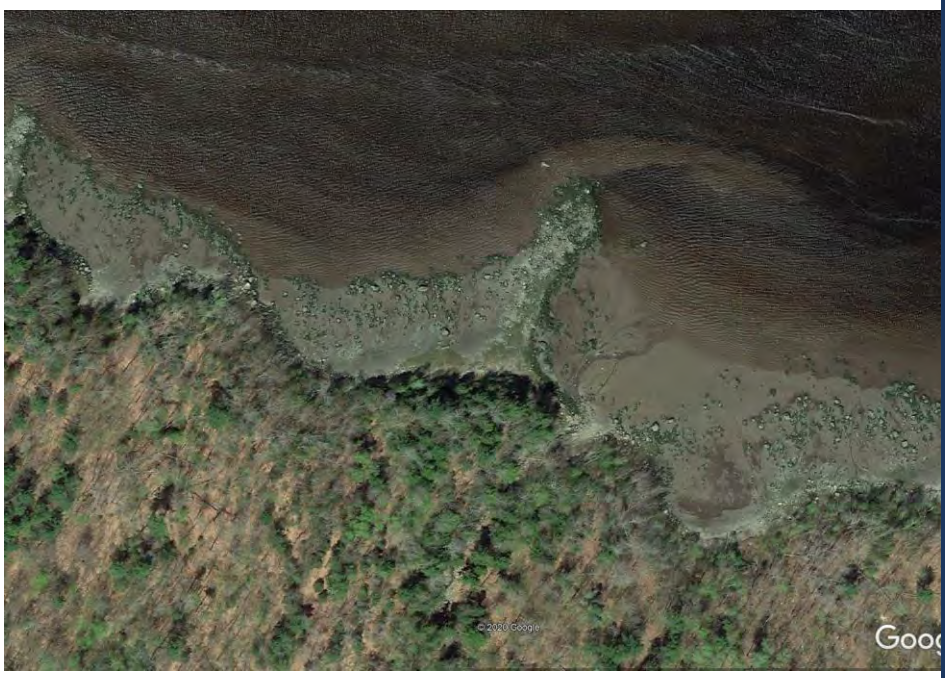
Photo No. 1	
Photo Date: 05/10/2018	
Site Location: Bowden Point, Prospect, Maine	
Description: Aerial view of project location.	
Photo By: Earth – Imagery Date 5/10/2018	

Photo No. 2	
Photo Date: 12/08/2020	
Site Location: Bowden Point, Prospect, Maine	
Description: Existing Fill. Seen from shoreline. Assumed to be location of Historic Pier.	
Photo By: DJO	

Photo No. 3 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Existing Fill, seen from shoreline. Assumed to be location of Historic Pier. Photo By: DJO	

Photo No. 4 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Existing fill, seen from shoreline. Assumed to be location of Historic Pier. Photo By: DJO	

Photo No. 5 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Downriver of proposed pier location. Seen from proposed pier location. Photo By: DJO	

Photo No. 6 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Upriver of proposed pier location. Seen from end of existing fill. Photo By: DJO	

Photo No. 7 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: End of existing fill. Assumed to be location of Historic Pier. Photo By: DJO	

Photo No. 8 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Existing shoreline, looking east from proposed pier location. Photo By: DJO	

Photo No. 9 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Existing shoreline, looking west from proposed pier location. Photo By: DJO	

Photo No. 10 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Existing stream that drains into Penobscot River. Proposed pier site seen at left edge of photo. Photo By: DJO	

Photo No. 11 Photo Date: 12/08/2020 Site Location: Bowden Point, Prospect, Maine Description: Existing peninsula. Seen from end of fill, looking south. Photo By: DJO	

Photo No. 12 Photo Date: 12/08/2020 Site Location: Prospect, ME Description: Forested wetland Photo By: DJO	

Photo No. 13 Photo Date: 12/08/2020 Site Location: Prospect, ME Description: Forested wetland Photo By: DJO	

Photo No. 14 Photo Date: 12/08/2020 Site Location: Prospect, ME Description: Forested wetland Photo By: DJO	

ATTACHMENT 7

DRAWINGS

PROPOSED PIER

PROPOSED PROCESSING AREA

PROPOSED BUILDING

PROPOSED STREAM CROSSING

PROPOSED ACCESS ROAD
REFER TO SHEET C201-C205
FOR DETAILED ROAD PLAN
AND PROFILES.

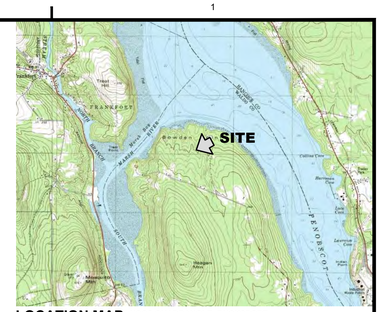
PROPOSED STREAM CROSSING

TAX MAP 11, LOT 22
NOW OR FORMERLY
TODD H. HANSON
BOOK 4256, PAGE 133

SEE ALSO
PLANBOOK 8, PAGE 82

NOW OR FORMERLY
HARRIS LEVY
SEE PLISGA & DAY, JOB No. 99369

TAX MAP 11,
LOT 30



LOCATION MAP: USGS QUADRANGLE: BUCKSPORT
SCALE: 1"=4000'
MAPTECH® USGS TOPOGRAPHIC SERIES™,
©MAPTECH®, INC. 978-933-3000
WWW.MAPTECH.COM/TOPO

LEGEND:

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		
EDGE OF PAVEMENT		
MAJOR FOOT CONTOUR	100	100
MINOR FOOT CONTOUR	98	98
SILT FENCE		SF

PLAN REFERENCE:

INFORMATION BASED ON LIDAR TOPOGRAPHY FROM MEGIS SITE AND A NATURAL RESOURCE SURVEY BY CES, INC.

GRAPHIC SCALE

150 0 75 150 300 450

(IN FEET)
1 inch = 150 ft.

REV.	DATE	DESCRIPTION	BY	CHK.

DRAWING ISSUE STATUS

NOT FOR CONSTRUCTION

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
One Merchants Plaza, Suite 701
Bangor, Maine 04401
207.989.4824
WWW.HALEYWARD.COM

PROJECT

BOWDEN POINT PROPERTIES, LLC
PROSPECT, MAINE

TITLE

PROSPECT QUARRY PROCESSING AREA
PROPOSED SITE PLAN

STATE OF MAINE
ALFRED HASKELL III
5214
LICENSED
PROFESSIONAL ENGINEER
11/21/2021

DATE	SCALE
2021.09.28	1"=150'

DRAWN BY	DESIGNED BY	CHECKED BY
WAB	DJO	DSB

PROJECT No. 12617.001

DRAWING No. **C101** REV.

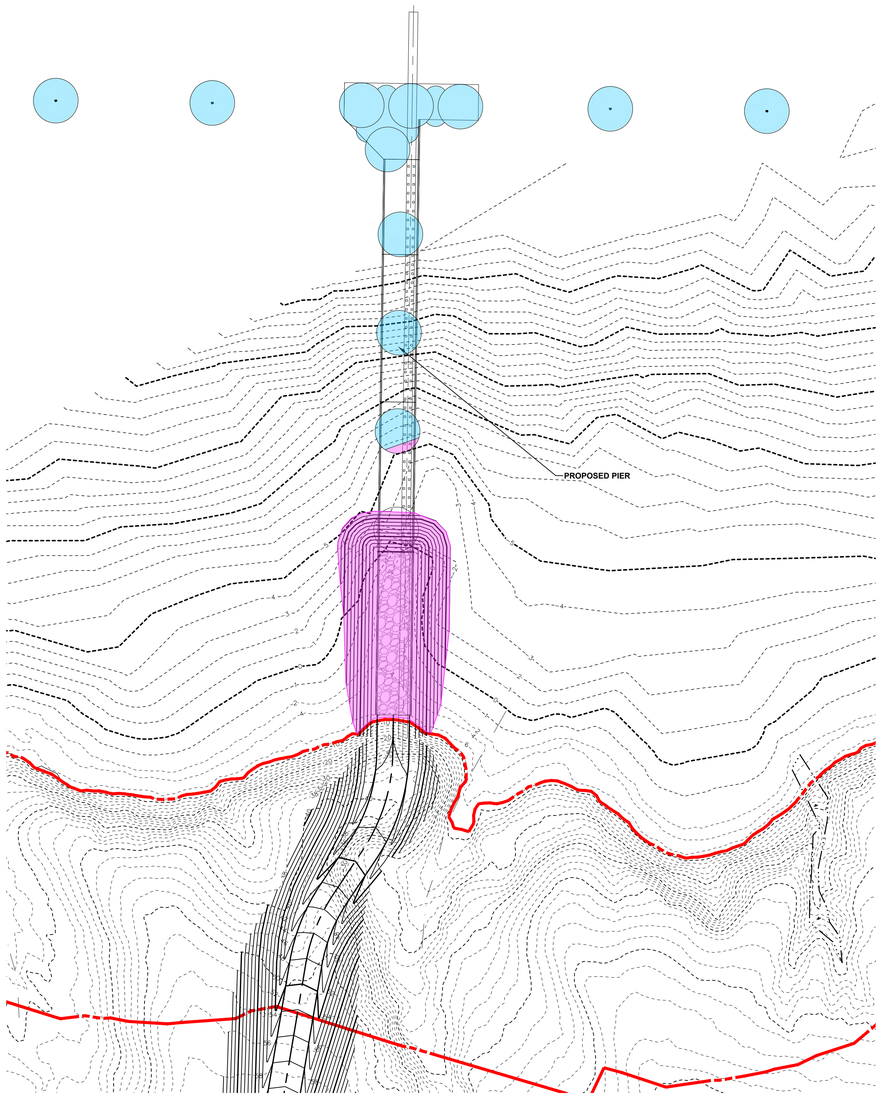
IMPACTS:

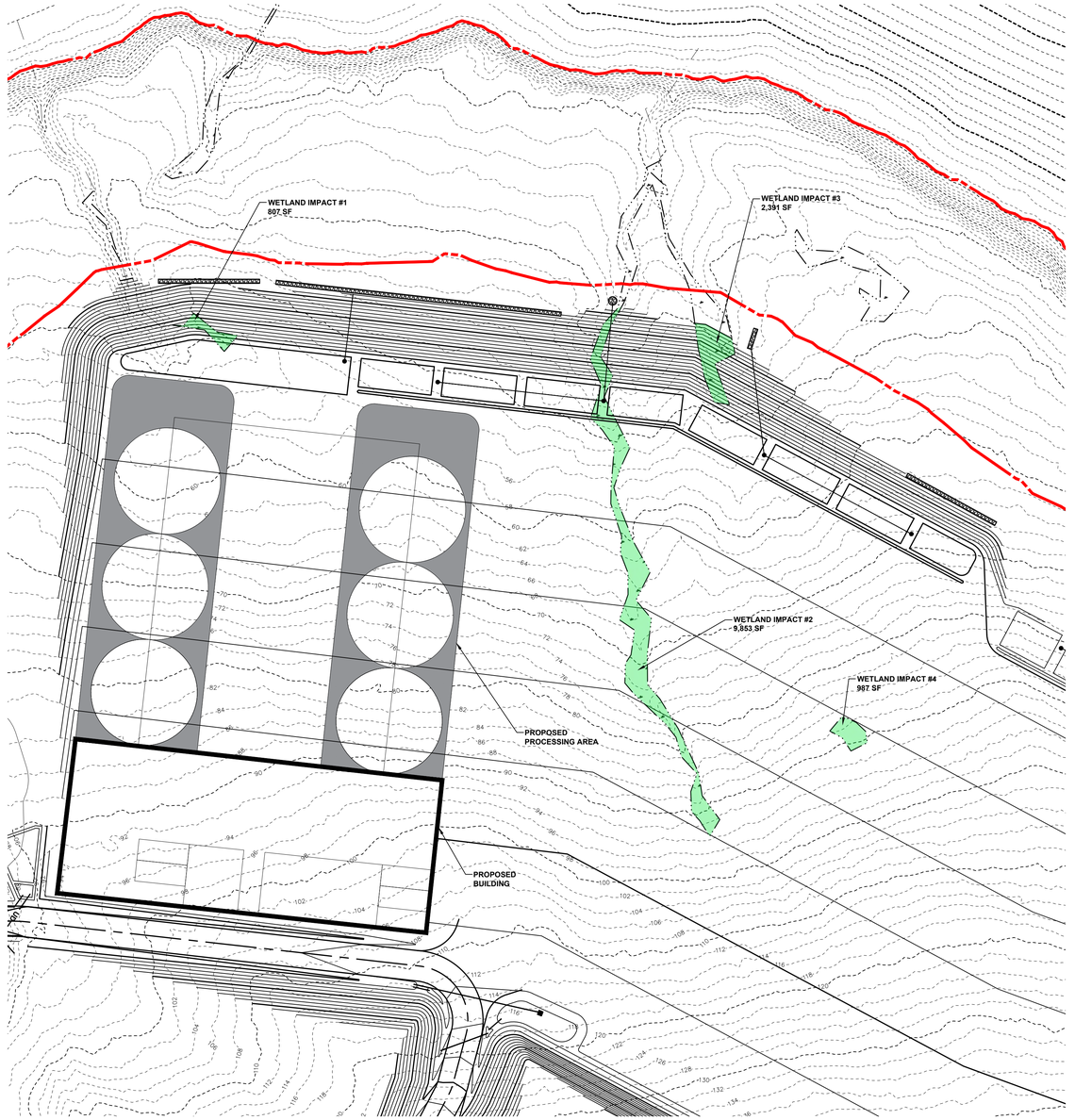
INTERTIDAL DISTURBANCE AREA: 26,660 SF

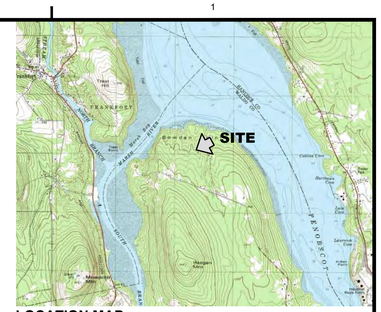
RIVER DISTURBANCE AREA: 22,961 SF

IMPACT:

TOTAL WETLAND IMPACT: 14,038 SF







LOCATION MAP: USGS QUADRANGLE: BUCKSPORT
MAPTECH® USGS TOPOGRAPHIC SERIES™,
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WWW.MAPTECH.COM/TOPO

SCALE: 1"=4000'

LEGEND:

DESCRIPTION	*EXISTING*	*PROPOSED*
PROPERTY LINE		
EDGE OF PAVEMENT		
MAJOR FOOT CONTOUR	*100*	100
MINOR FOOT CONTOUR	*98*	98
SILT FENCE		SF

PLAN REFERENCE:

INFORMATION BASED ON LIDAR TOPOGRAPHY FROM MEGIS SITE AND A NATURAL RESOURCE SURVEY BY CES, INC.

GRAPHIC SCALE

80 0 40 80 160 240

(IN FEET)
1 inch = 80 ft.

REV.	DATE	DESCRIPTION	BY	CHK.

DRAWING ISSUE STATUS

NOT FOR CONSTRUCTION

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
One Merchants Plaza, Suite 701
Bangor, Maine 04401
207.989.4824
WWW.HALEYWARD.COM

PROJECT

BOWDEN POINT PROPERTIES, LLC
PROSPECT, MAINE

TITLE

PROSPECT QUARRY PROCESSING AREA
PROPOSED IMPACT PLAN

STATE OF MAINE
ALFRED HASKELL III
2514
10/21/2021
LICENSED
PROFESSIONAL ENGINEER

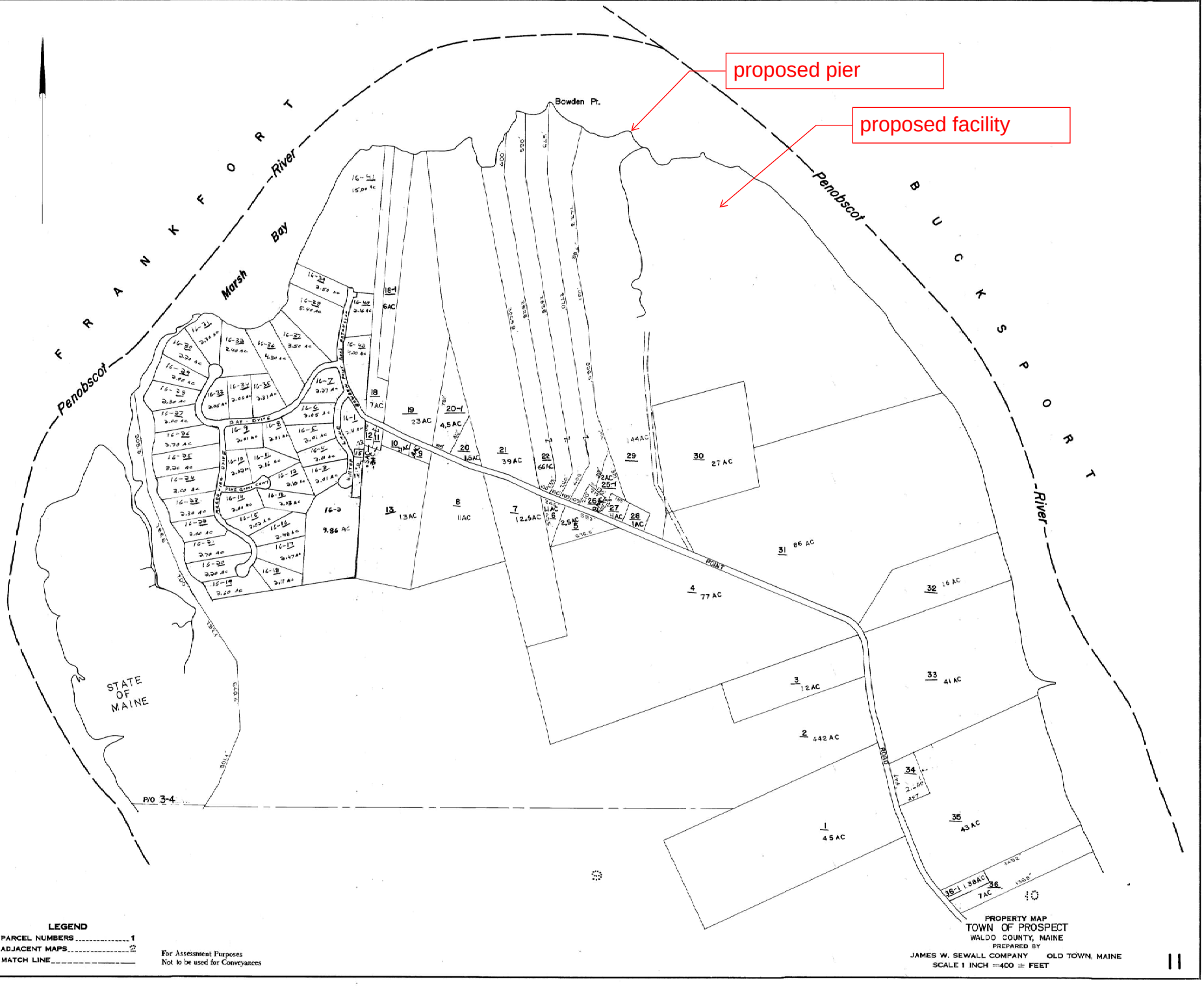
DATE	SCALE
2021.09.28	1"=80'

DRAWN BY	DESIGNED BY	CHECKED BY
WAB	DJO	DSB

PROJECT No. 12617.001

DRAWING No. **C102** REV.

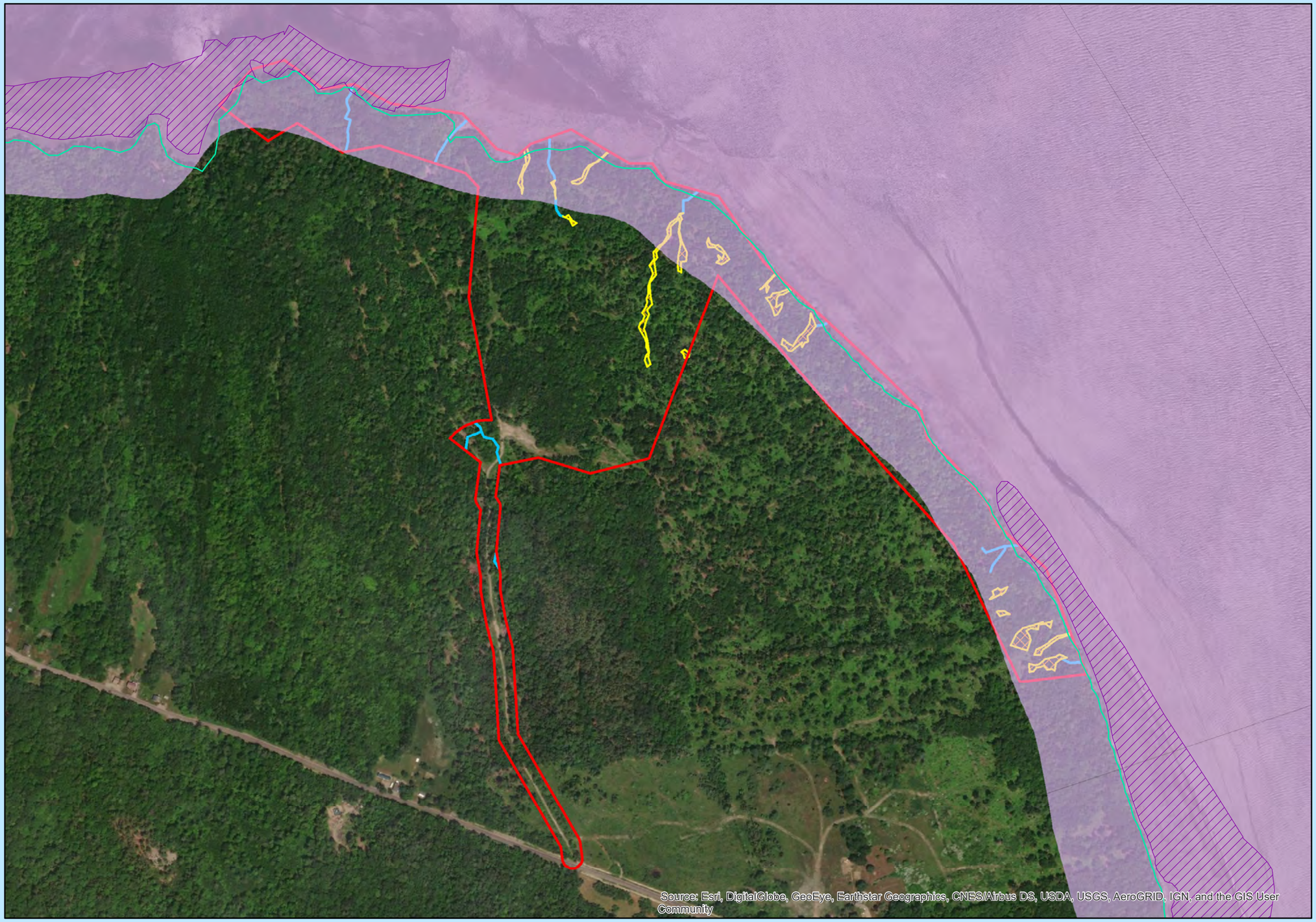
FILE LOCATION: P:\12617.5A\LWORK_INC\001-PROSPECT ME QUARRY-ADH\02-CAD_DRAWINGS\CIVIL\DESIGN_DWG\12617.001-C-SP.DWG, 2021.12.20, 7:54 AM


proposed pier
proposed facility
FRANKFORT
Penobscot River
Marsh Bay
Bowden Pt.
Penobscot River
BUCKSPORT
STATE OF MAINE
P/O 3-4
LEGEND
PARCEL NUMBERS 1
ADJACENT MAPS 2
MATCH LINE
For Assessment Purposes
Not to be used for Conveyances
PROPERTY MAP
TOWN OF PROSPECT
WALDO COUNTY, MAINE
PREPARED BY
JAMES W. SEWALL COMPANY OLD TOWN, MAINE
SCALE 1 INCH = 400 ± FEET
11

ATTACHMENT 8

ADDITIONAL PLANS
Natural Resource Map

Natural Resource Plan - Levy Parcel - Prospect



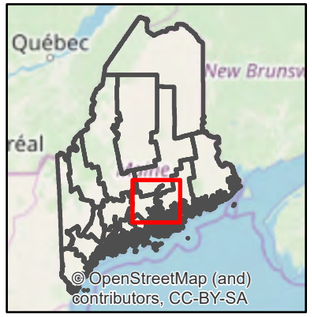
N
W E
S

500 250 0 500
Feet

Legend

- Natural Resource Survey Area
- Wetland Area CES
- Streams CES
- Tidal Waterfowl and Wading Bird Habitat
- Highest Annual Tide (2015)
- FEMA Flood Zones

MAINE



Project Title: Salmon's Inc.
Description:
Natural Resource Plan

Project No.: 12617.001
By: NAI
Date: 6/13/19
Updated: 10/24/2019
By: [jszillery]

MAP NOTES:

1. WETLANDS SHOWN HEREON WERE DELINEATED IN JULY 2019. WETLANDS WERE FIELD DELINEATED IN ACCORDANCE WITH U.S. ARMY CORPS OF ENGINEERS STANDARDS BY CES, INC.

2. FEATURES DEPICTED ON THIS PLAN WERE LOCATED USING A MAPPING GRADE SUB-METER CAPABLE GPS/GNSS RECIEVER.

3. MAP IS PROJECTED USING UTM ZONE19 COORDINATES, AND REFERENCES THE NORTH AMERICAN DATUM OF 1983 (NAD83).

4. NORTH ARROW IS ORIENTED TO GRID NORTH IN ALL MAP EXTENTS DEPICTED HEREIN.

5. AERIAL PHOTO BASE MAP FROM IMAGERY IS 1-M 2013 NAIP IMAGERY BY USDA, FSA, TOPOGRAPHIC QUAD FROM ESRI, 2015.

CES INC
Engineers • Environmental Scientists • Surveyors

ATTACHMENT 9

CONSTRUCTION PLAN

ATTACHMENT 9

CONSTRUCTION PLAN

Please see the Construction Plan in this section which outlines the various construction activities related to the proposed pier.

Operations in Wetlands and Protected Resource Areas:

Construction and associated operations in and near the protected resources on-site, namely wetlands and the intermittent stream, will be controlled to avoid unnecessary impacts and minimize disturbance. By careful planning, site preparation, timing, access route utilization, and construction implementation, project construction can be accomplished with the least amount of impact to the protected resources on Site.

General Principals:

- Avoid operating in wet weather
- Minimize trips and machine operations
- Employ the appropriate BMPs
- Install and maintain erosion control devices
- Concentrate traffic and access within uplands and along established roads/corridors

Access Routes:

The project will be accessed from Bowden Point Road. One access drive will be constructed off of Bowden Point Road for internal access to the Site.

Prospect Pier Construction Narrative

Cianbro Corporation

Description

The proposed pier will serve as a link between the upland parcel and deep water to allow for export of rock product or material associated with the operations of the upland quarry. After rock is removed from the upland quarry, it will be transported by truck to the pier. It is anticipated that some of the rock will be crushed into smaller aggregate onsite, within the quarry processing area, before transport. However, some will remain in larger blocks. The larger blocks will be carried along the pier by trucks. Crushed aggregate will be carried along the pier either by truck or conveyor. At the end of the pier, the rock will be loaded onto a barge. The barge will then travel along the deep channel of the Penobscot River, through Penobscot Bay, into the Atlantic Ocean, and to its destination along the east coast of the United States.

The proposed pier is approximately 40 feet wide and will extend approximately 700 feet into the river from MHW at the shoreline. It is composed of four distinct components:

1. Stone Causeway Section
2. Trestle Section
3. Loading Section
4. Dolphins

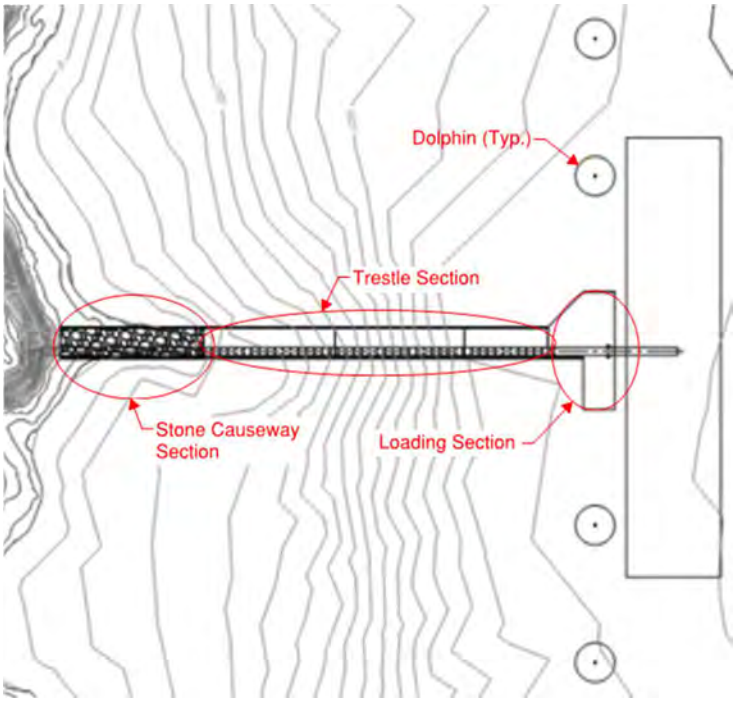


Figure 1 - Pier Components

Construction will start at the shoreline with a stone causeway and will advance outward as listed above. It is understood that in-water work may be restricted to the “winter” season to minimize impacts to protected species such as Atlantic salmon, Atlantic sturgeon, and Shortnose sturgeon. It is anticipated that all in-water work will be completed in one

construction season. This will be challenging due to the nature of the work and difficult weather conditions for this location and time of year. Environmental mitigation techniques may be beneficial to lengthen the in-water work window to maintain construction activities within the shortest overall duration. The minimum anticipated in-water work window is November 1 through March 31. Construction of major activities is anticipated during the following times:

- Stone causeway construction: November – March
- Cellular cofferdam installation: November – March
- Cellular cofferdam excavation: Any time of year
- Superstructure/trestle erection (above water work): Any time of year

A geotechnical exploration program was completed in September 2020 to better understand the subsurface conditions. A total of five borings were performed as illustrated in Figure 2. Table 1 summarizes the results of the exploration program.

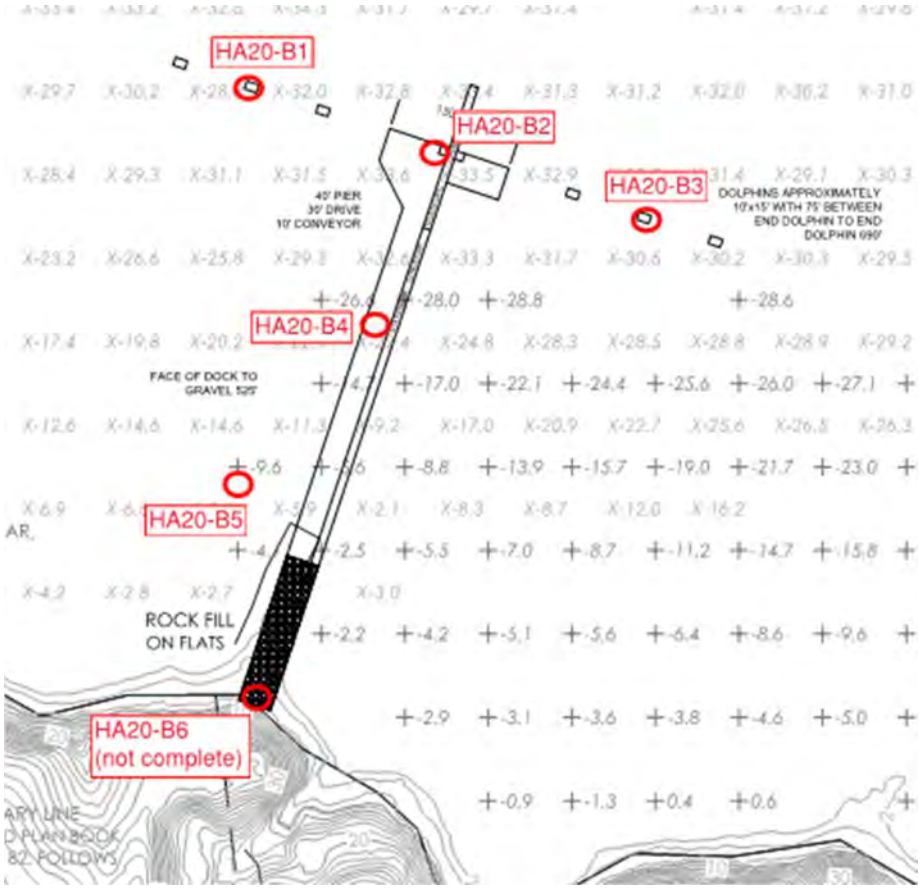


Figure 2 – Boring Location Plan

Haley & Aldrich, Inc. File No. 135575-004

Test Boring No.[1]	Ground Surface Elevation (ft)[2,3]	Total Exploration Depth (ft)	El. Bottom of Exploration[2,3]	River Bottom Deposit[4]			Glacial Till		
				Depth to Top (ft)	El. of Top[2,3] (ft)	Thickness (ft)	Depth to Top (ft)	El. of Top[2,3] (ft)	Thickness[5] (ft)
HA20-B1	-30.5	40.0	-70.5	0.0	-30.5	12.0	12.0	-42.5	>28.0
HA20-B2	-33.5	51.9	-85.4	0.0	-33.5	13.5	13.5	-47.0	>38.4
HA20-B3	-31.5	36.3	-67.8	0.0	-31.5	15.1	15.1	-46.6	>21.2
HA20-B4	-24.5	47.0	-71.5	NE	NE	NE	0.0	-24.5	>47.0
HA20-B5	-9.5	55.0	-64.5	NE	NE	NE	0.0	-9.5	>55.0

Notes:

[1] Test boring locations are shown on the Boring Location Plan.

[2] Elevations were estimated from spot elevations shown on the Boring Location Plan.

[3] Elevations are feet and reference the North American Vertical Datum of 1988 (NAVD 88).

[4] "NE" indicates stratum was not encountered in test boring.

[5] ">" indicates stratum was not fully penetrated.

Table 1 – Subsurface Composition Table

Stone Causeway Section

The stone causeway section of the pier will begin at the riverbank beyond the shoreline and will extend approximately 180 feet into the Penobscot River beyond the MHW line. This section will be an improvement to the existing fill remaining from an apparent previous structure. The top of the causeway will be approximately 40 feet wide. The top of fill will be approximately 10 feet above mean high water. Side slopes will be 2:1. A concrete topping above the fill will serve as the travel service of the pier and will support the conveyor. Boring B5 from the geotechnical exploration program is near this section of the pier. The boring advanced 55 feet into the river bottom. The subsurface consisted entirely of glacial till. Bedrock was not definitively encountered. An additional boring directly beneath the proposed fill will be performed on the shoreline prior to construction.

Construction of the rock causeway will start at the bottom of the existing bank outside of the river. Washed or blasted rock will be delivered to the site by dump trucks. It will be placed in lifts and will progressively extend outward from the bank into the river. A combination of excavators and bulldozers will be used to spread the fill material. Rollers will be used to compact the gravel. The equipment will not operate within the water but will utilize the previously constructed portions of the causeway to travel and place/spread new material. Tide cycles will affect the timing of construction for the bottom lifts of the rock fill. Base layers within the intertidal zone will be placed during low water. Appropriate sediment controls will be placed along the shoreline above mean high water to control any potential sediment discharge from upland/upslope traffic and disturbance. Turbidity curtains will be placed in the water around the work area during construction.

Trestle Section

The trestle section of the pier that extends from the stone causeway to the loading section will be supported by cellular cofferdam foundations. This longitudinal portion of the pier will be approximately 40 feet wide by 440 feet long. To determine the impact footprint, the cells were assumed to be circular with an outside diameter of 50 feet. The exterior cell walls will be exposed above the river bottom and will be filled with a granular material and topped with a concrete slab. It is assumed that each cell will support two transverse reinforced concrete bent caps (one for each span over water). The cells will be spaced at approximately 100 feet on center along the trestle and will support longitudinal precast concrete beams

and a reinforced concrete deck. Borings B4 and B5 apply to this section of the pier. These borings extended 47-55 feet below the river bottom. Bedrock was not definitively encountered. The subsurface consisted of glacial till for the entire boring depth. Construction crews and equipment will access this portion of the pier by water.

The exterior of the cells will be comprised of flat steel sheet piles interlocked together. The interlocks will provide resistance to the outward forces of the granular fill and surcharge loads. Driving steel sheets through glacial till will be challenging due to the stiffness of the substrate. According to preliminary design, the sheets would need to penetrate approximately 5 feet into the till. Pile driving equipment will be mobilized on barges and work will be performed over water. A vibratory hammer will be used to drive the sheets through the organic layer and into the upper portion of glacial till. An impact hammer may also be necessary to achieve the required embedment depth. During impact hammer use, soft start procedures will be followed for each pile in advance of full pile driving to warn and disperse nearby marine species. If necessary, a bubble curtain may be used to minimize the hydroacoustic sound caused by driving pile with an impact hammer. Turbidity curtains will be placed around the work area, when appropriate, to contain any bottom sediments disturbed while driving piles.

Unsuitable native materials encountered within the cells, such as soft organics or clays, will need to be removed using a crane with a clamshell bucket or other heavy equipment, and placed on a barge. Once on the barge, the material will be contained within a hard barrier containment system which is designed to allow water to naturally drain off the edges. Geotextile filter fabric will be utilized around and within the containment meter of the barge to capture the fines while dewatering. A turbidity curtain will be in place around the full perimeter of the barge, suspended from the barge, to capture any turbidity generated from the draining process. The barges will then be transported to the stone causeway and excavated material loaded into dump trucks. The material will then be moved to a location onsite where it can be utilized as fill. Appropriate best management practices will be utilized for stock pile stabilization and containment within the landside project area.

After the cells and concrete caps are constructed, precast concrete girders will be transported from a precast facility to the site. This may be done by truck/trailer to a nearby established waterfront facility and then transported to the site by barge. Or the girders may be transported the entire trip by barge from a precaster with deep water access to the Atlantic. The precast beams will be large and heavy and will require large equipment to erect. A crane, or two cranes, on barges will be used to set the beams. Spuds will be used to stabilize the barges and to hold them in place during lifting operations. Barges will not be grounded out.

Loading Section

The loading section of the pier is the end section that is oriented perpendicular to the trestle section. The proposed barge will docked adjacent to this section of pier. The pier is widened to approximately 150 feet here to provide adequate space for equipment to load materials onto the barge. It also provides ample space for a dump truck to turn around. Boring B2 applies to this section of pier. This boring advanced 52 feet below the river bottom and consisted of glacial till beneath 13.5 feet of organic material. Bedrock was not definitively encountered.

This portion of the pier will be formed by four closely spaced 50-foot diameter cellular cofferdams connected by additional sheets in the shape of an arc. This enclosure provides additional strength to support the aggregate loading operation. Similar to the trestle section, these cellular cofferdams will be filled with granular material once the unsuitable organics are

removed and transported to the upland site. The material will be handled as described in the trestle section. Construction crews and equipment will access this portion of the pier by water.

Dolphins

The proposed barge for exporting rock from the quarry is 500 feet long. This far exceeds the length of the loading section of the pier. Therefore, four dolphins will be constructed (two upstream and two downstream) to help protect the loading section and properly align the barge. Once in position, the dolphins will be used as moorings to hold the barge in position for loading. The dolphins will be positioned to allow the barge to adjust its location along the loading section when loading.

Borings B1 and B3 from the geotechnical exploration program apply to this section. These borings advanced 36-40 feet into the river bottom and did not definitively encounter bedrock. The subsurface here consisted of glacial till beneath 12-15 feet of organic material.

The dolphins will utilize the same 50-foot diameter cellular cofferdams proposed for the trestle section and loading section of the pier. These cellular cofferdams are necessary to resist the large design impact load of the proposed barge. Similar to the trestle section, the cellular cofferdams will be filled with granular material once the unsuitable organics are removed and transported to the upland site. The material will be handled as described in the trestle section. Construction crews and equipment will access this portion of the pier by water.

ATTACHMENT 10

EROSION CONTROL PLAN

ATTACHMENT 10

EROSION CONTROL PLAN

A. Narrative. The proposed construction will require the implementation of temporary and permanent erosion control measures. These measures will be implemented in accordance with the Maine Erosion and Sediment Control Best Management Practices (BMPs) Manual, prior to removal of any on-site vegetation or disturbance of any on-site soil. The general erosion and sediment control specifications and details, as provided within this section, are intended to describe measures to be used by contractors working on the site to maintain compliance with the standards established in the BMPs. These standards include information on temporary and permanent erosion control measures, rates of seeding and applied mulch, slope and soil stabilization, effect of construction schedule, and other details.

The proposed location and use of erosion control measures on-site are shown on the **Proposed Site Plan**. Erosion control devices are described in detail in this report, on the Construction Drawings, and in the **Construction Plan** (Attachment 7.) There are no known existing erosion control concerns with the site. Implementation of proper erosion control measures will be required by site contractors to confine sediment and debris within the limit of soil disturbance. Proper use and maintenance of erosion control measures will provide protection against off-site transport of sediment and discharge of sediment to undisturbed areas of the development.

Additional Erosion Control information is shown on sheets C001, C002, and C003 of the attached project plans.

B. Completion Date. Fall 2023

C. Site Features. For site features please refer to the enclosed plan.

D. Temporary and Permanent Erosion Control Measures. For temporary and permanent erosion control measures please refer to the enclosed plan.

E. Limits of Disturbed Areas. Areas of disturbance will be limited to the proposed work shown on the enclosed plan.

F. Design Drawings and Specifications. For design drawings please refer to the enclosed plan. The following specifications will be utilized by the site contractor during construction of the project.

APPENDIX A

EROSION CONTROL PLAN SPECIFICATIONS

A. General

1. All work and measures will be as per the Maine Erosion and Sediment Control BMPs manual.

2. The following specifications will be employed.

B. Prior to Construction

1. Prior to beginning of construction, erosion and sedimentation controls shall be in place.

C. During Construction

1. Exposed soil surfaces will be treated immediately if they are to remain ungraded more than 30 days, or if they are at final grades.

2. Drainage ways, either designed or incidental, will have filter barriers installed.

3. All work and materials necessary to minimize sediment loss from the site will be provided.

4. All erosion control measures will be inspected and repaired after every rainfall greater than ½-inch and at least daily during rain events lasting longer than 24 hours.

D. Post Construction

1. Erosion control measures will be maintained until permanent soil stabilization has been achieved with a growth of vegetation greater than 90%.

SOIL PROTECTION AND EROSION CONTROL

PART 1 - GENERAL

1.01 Description of Work

A. Provide and maintain devices to control erosion, siltation, sedimentation, and dust that occur during construction operations. Undertake every reasonable precaution and do whatever is necessary to avoid erosion of soil and to prevent silting of wetland areas and drainage ditches.

B. Provide measures to control dust caused whether on or off the project site.

C. Deficiencies in erosion control measures indicated by failures or erosion will be corrected as soon as reasonably possible by providing additional measures or different techniques to correct the situation and prevent subsequent erosion.

D. Exposure of soils on embankments, excavations, and graded areas will be kept as short as possible. Initiate seeding and other erosion control practices as soon as reasonably possible.

1.02 Quality Assurance

A. Conform to all requirements of applicable Federal, State and local permits and conform to the recommendations of the Maine Erosion and Sediment Control BMPs (see Part B below) whether the measures are specifically noted herein, or not.

B. Standards: Maine Erosion and Sediment Control BMPs Manual, hereinafter called Erosion Control Handbook.

PART 2 - PRODUCTS

2.01 Materials: Use the following materials to implement and construct erosion control measures.

A. Hay Bale: Rectangular shaped bales of hay or straw weighting at least 40 pounds per bale; free from noxious weed seeds and rough or woody materials.

B. Mulch: Type and use as specified by the Erosion Control Handbook
   1. Long fibered hay or straw in dry condition and which are relatively free of weeds and foreign matter detrimental to plant life.

   2. Mulch netting: Plastic or nylon mesh netting with approximate openings of ¼-inch to 1-inch.

C. Permanent Seeding: Cut and fill slopes and disturbed areas will be stabilized as follows:

1. Four inches of loam will be spread over disturbed areas and smoothed to a uniform surface.

2. In lieu of tests, agricultural limestone will be spread at the rate of three tons per acre. 10-20-20 fertilizer will follow at the rate of 800 lbs. per acre. These two soil additives will be incorporated into the soil prior to seeding.

3. Following seed bed preparation, back slopes will be seeded to a mixture of 83% creeping red fescue, and 17% rye grass. Seeding rate is 3 lbs. per 1,000 square feet. Lawn quality sod may be substituted for seed.

4. Hay mulch at the rate of 90 lbs. per 1,000 square feet of a hydro-application of asphalt, wood, or paper fiber will be applied following seeding. A suitable binder such as curason or terrtack will be used on hay mulch for wind control.

5. If final seeding of the disturbed areas is not completed by September 15th of the year of the construction, then on that date these areas will be graded and a cover crop of rye at the rate of 112 lbs/acre or 3 lbs/1,000 sq. ft. will be applied. The rye seeding will be preceded by an application of 3 tons of lime and 800 lbs. of 10-20-20 fertilizer or its equivalent and covered by a layer of jute mat to aide in stabilization.

PART 3 - EXECUTION

3.01 Construction

A. Silt Fence

1. Install as directed by Erosion Control Handbook.

B. Hay Bales:

1. Install as directed by Erosion Control Handbook, and stake with required stakes.

C. Mulch:

1. Undertake after each area has been properly prepared.

2. When seed for erosion control is sown prior to placing the mulch, place mulch on the seeded areas within 48 hours after seeding.

3. Blowing chopped mulch will be permitted.

4. Hay mulch should cover the ground enough to shade it, but the mulch should not be so thick that a person standing cannot see the ground through the mulch.

5. Remove matted mulch or bunches.

D. Temporary Erosion Control Matting (where necessary):

1. Surface Preparation:
   a. Conform to grades for slopes and ditches shown of the drawings.
   b. Finish to a smooth and even condition with all debris, roots, stones, and lumps raked out and removed.
   c. Loosen soil surface to permit bedding of the matting.
   d. Unless otherwise directed, apply seed prior to placement.

2. Installation:
   a. Place strips lengthwise in the direction of the flow of water.
   b. Where strips are laid parallel or meet as in a tee, overlap at least four inches.
   c. Overlap ends at least six inches in a shingle fashion.
   d. The up-slope end of each strip of the matting will be turned down and buried to a depth of not less than six inches with the soil firmly tamped against it.
   e. Build check slots at right angles to the direction of the flow of water. Space so that one check slot or one end occurs within each 50 feet of slope length. Construct by placing a tight fold of the matting at least six inches vertically into the ground and tamp the same as up-slope ends.
   f. Bury edges of matting around the edges of the catch basins and other structures.
   g. Where determined by the Engineers, additional seed will be spread over matting, particularly at those locations disturbed by building the slots. Matting will then be pressed onto the ground with a light lawn roller or by other satisfactory means.

h. Drive staples vertically into the ground flush with the surface.
i. On slopes flatter than 4:1, space staples not more than three feet and one row, alternately spaced, down the center.
j. On grades 4:1 or steeper, place in the same three rows, but spaced two feet apart.
k. On all overlapping or butting edges, double the number of staples, with the spacing halved; all ends of the matting and all required check slots will likewise have staples spaced every foot.

E. Permanent Seeding:

1. Seed with appropriate seeds and application rates as noted in Section 2.01C.

2. Mulch areas where seeding has been applied. Do not mulch seeded areas where matting will be immediately installed.

F. Topsoil Storage:

1. Topsoil which is stockpiled on the site for use in loam applications will be placed out of natural drainages, in piles that have side slopes of 2:1 to 1.5:1.

2. A trench (depth as required) will be constructed around the base of the pile to prevent eroding soil from washing into drainages.

G. Dust Control: Utilize the application of sprinkled water to reduce the emission of airborne soil particulates from the Project site.

H. Temporary Berms: Construct temporary barriers along the toe of embankments using side drains as necessary.

I. In-Water Work

Refer to the Erosion Control Handbook, Section III:95. Control devices include:

1. Floating Turbidity Curtain
2. Cofferdams
3. Dewatering
4. Temporary Sediment Basin
5. Geotextile Filter Bags

H. Temporary Basins: Construct temporary sedimentation basins adequate to avoid siltation of surface water bodies.

I. Other Temporary Measures:

1. Type and use will be as specified in the Erosion Control Handbook.

J. Winter Stabilization Notes

1. At this time, it is expected that soil disturbance will occur during winter months. If construction is performed during these times, the following construction practices will be followed.
   a. All disturbed areas not stabilized with stone or other measures will have approved erosion control matting installed and be dormant seeded.
   b. No frozen soil material or material containing significant snow or ice will be used for fill material.
   c. All material stockpiles will have silt fence and/or hay bales installed downgradient of piles.
   d. Follow general erosion control notes described previously wherever possible and as conditions permit.

3.02 Maintenance

A. Inspect erosion control practices immediately after each rainfall greater than ½-inch and at least daily during rainfall lasting longer than 24 hours or snowmelt for damage. Provide maintenance and make appropriate repairs or replacement.

B. Remove silt from around hay bales when it has reached one foot above grade or prior to expected heavy runoff or siltation.

C. Repair matting if any staples become loosened or raised, or if any matting becomes loose, torn, or undermined, make satisfactory repairs immediately.

3.03 Removal of Temporary Erosion Control

A. Remove temporary materials and devices when permanent soil stabilization has been substantially achieved. For vegetated areas, substantially complete means 95% vegetated cover has been established.

B. Level and grade to the extent required to present a sightly appearance and to prevent any obstruction of the flow of water or any other interference with the operation of or access to the permanent works.

C. Remove unsuitable materials from site and dispose of in a lawful manner.

APPENDIX B

INSPECTION AND MAINTENANCE

The following Maintenance Plan will be employed for this Site. Bowden Point Properties will be responsible for all maintenance. Erosion control measures for this site were designed by:

Chip Haskell, P.E.
Haley Ward, Inc.
One Merchants Plaza, 7th Floor
Bangor, Maine 04412
(207) 989-4824
chaskell@haleyward.com

A Pre- and Post-Construction Maintenance Plan for the stormwater management system and erosion control measures are included in this section.

MAINTENANCE PLAN

The MDEP's Stormwater Management for Maine: Best Management Practices (2006), and the MDEP's Chapter 500: Stormwater Management were used as guidelines in the development of this Maintenance Plan. General maintenance requirements are listed below.

A. DURING CONSTRUCTION

The general contractor will be responsible for the inspection and maintenance of all stormwater management system components during construction.

Inspection: Inspection of disturbed and impervious areas, erosion control measures, materials' storage areas that are exposed to precipitation, and locations where vehicles enter or exit the site will be performed at least once a week as well as before and after a storm event, and prior to completing permanent stabilization measures. Inspections shall be conducted by a person with knowledge of erosion and stormwater control, including the standards and conditions in the permit.

Maintenance: All erosion control measures will be kept in effective operating condition until areas are permanently stabilized. If BMPs need to be maintained or modified, additional BMPs are necessary, or other corrective action is needed, implementation will be completed within 7 calendar days and prior to any rainfall event.

Documentation: A log shall be kept summarizing the inspections and any corrective action taken. A copy of the log is provided at the end of this section, and is titled, Construction Inspection Log.

B. POST-CONSTRUCTION

The Owner or their assigns will be responsible for the inspection and maintenance of all stormwater management system components.

Inspection and Corrective Action

1. ***Vegetated Areas:*** Inspections and maintenance of vegetated areas will be performed early in the growing season or after significant rainfall to identify any erosion problems. Areas where erosion is evident will be covered with an appropriate lining, or erosive flows will be diverted to an area able to handle the flows. Any bare areas or areas with sparse growth will be replanted.

2. *In-Water Work*

Turbidity Curtains: Check for proper function when sedimentation is occurring. Sediment should be fully contained by the floating turbidity curtain. Signs of leakage or bypass should be assessed and addressed immediately. Inspect the floating turbidity curtain weekly, on windy days, and before, during, and after storm events. Ensure that the connections between curtain sections and the connections to the anchor lines are secure. Keep any debris that might damage the fabric clear from the curtain. If the curtain is damaged while construction is ongoing, it should be repaired in-place in order to maintain its function. After each use, the curtain should be spread out on a flat surface, cleaned thoroughly by brushing with water and detergent, rinsed and allowed to dry. Patch tears and abrasions using special cements and fabric obtainable from the manufacturer.

Stream Diversions:
Preparations may include obtaining and readying additional pumps, raising the cofferdam height, stabilizing the work area, and removing debris from the diversion pipe. Remove the diversion immediately upon completion of in-water work.

Cofferdams:

Inspect daily throughout use. Repair and reposition any damaged or displaced cofferdam components. Repair washouts or other damage as needed. Sandbags should be removed by hand to prevent breakage and unnecessary disturbance of the streambed. When using an upstream and downstream dam, remove the downstream dam first.

Dewatering:

Cofferdam Integrity – Observe any increases in seepage rate. If changes are observed, locate and repair leaks. Water Quality – Observe any clean water discharges to the resource, to ensure that they remain clean. If they are not, redistribute discharges as appropriate and correct any deficiencies. Temporary Sedimentation Devices – Verify proper function of the temporary sedimentation devices. Conduct cleaning and/or installation of additional capacity as necessary.

3. *Inspection:* shall be performed by an individual with experience and/or training on the maintenance and functions of these devices.

Documentation: A log will be kept summarizing the inspections, maintenance, and any corrective action taken. A copy of the log is provided at the end of this section, and is titled, BMP Inspection Log.

4. ***Recertification Requirement***: Within three months of the expiration of each five-year interval from the date of issuance of the permit, the permittee shall certify the following to the department.

    a. All areas of the project site have been inspected for areas of erosion, and appropriate steps have been taken to permanently stabilize these areas.

    b. All aspects of the stormwater control system have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the facilities.

    c. The erosion and stormwater maintenance plan for the site is being implemented as written, or modifications to the plan have been submitted to and approved by the department, and the maintenance log is being maintained.

APPENDIX C

HOUSEKEEPING

1. Spill Prevention - During construction, controls will be used to prevent pollutants from being discharged from materials on site, including storage practices to minimize exposure of the materials to stormwater, and appropriate spill prevention, containment, and response planning and implementation.

2. Groundwater Protection - During construction, liquid petroleum products and other hazardous materials with the potential to contaminate groundwater will not be stored or handled in areas of the site draining to an infiltration area. Dikes, berms, sumps, and other forms of secondary containment that prevent discharge to groundwater may be used to isolate portions of the site for the purposes of storage and handling of these materials.

3. Fugitive Sediment and Dust - Actions will be taken to ensure that activities do not result in noticeable erosion of soils or fugitive dust emissions during or after construction. Oil will not be used for dust control. Water will be used for dust control during construction.

   Operations during wet months that cause mud to be tracked off the site onto public roads will provide sweeping of the road areas at least once per week and prior to significant storm events.

4. Debris and Other Materials - Litter, construction debris, and chemicals exposed to stormwater will be prevented from becoming a pollutant source. The nature of this development will not cause problems related to debris and other materials.

5. Trench or Foundation De-Watering - If de-watering is necessary, the collected water will be removed from the ponded area and spread through natural wooded buffers or discharged into a construction sedimentation basin. The water will not be allowed to flow over disturbed areas to the site.

PROSPECT QUARRY
CONSTRUCTION INSPECTION LOG

Inspection Date	Inspector (Name and Qualifications)	Major Observations	Work Performed

Notes

1) Major Observations include the operation and maintenance of erosion and sedimentation controls, materials storage areas, and vehicle access points to the parcel. Major Observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and locations(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.

2) Work Performed will include a description of the corrective action taken, the date the corrective action was taken, and the name and qualifications of the person taking the corrective actions

3) The log must be made accessible to MDEP staff and a copy must be provided upon request.
The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

SALMONS INCORPORATED
BMP INSPECTION LOG

Date	Inspector (Name and Qualifications)	ID Number	BMP Structure	Work Performed	Comments

Notes

1) If a maintenance task requires the clean-out of any sediments or debris, indicate where the sediment and debris was disposed after removal.
2) BMP structures shall be numbered sequentially and located on attached site map.
3) The log must be made accessible to MDEP staff and a copy must be provided upon request.
4) The permittee shall retain a copy of the log for a period of at least five years from the completion of permanent stabilization.

INSPECTION AND MAINTENANCE PLAN FOR STORMWATER MANAGEMENT STRUCTURES (BMPS)		
	INSPECTION SCHEDULE	CORRECTIVE ACTIONS
VEGETATED AREAS	Annually early spring and after heavy rains	Inspect all slopes and embankments and replant areas of bare soil or with sparse growth
		Armor rill erosion areas with riprap or divert the runoff to a stable area
		Inspect and repair down-slope of all spreaders and turn-outs for erosion
		Mow vegetation as specified for the area
DITCHES, SWALES AND OPEN STORMWATER CHANNELS	Annually spring and late fall and after heavy rains	Remove obstructions, sediments or debris from ditches, swales and other open channels
		Repair any erosion of the ditch lining
		Mow vegetated ditches
		Remove woody vegetation growing through riprap
		Repair any slumping side slopes
		Repair riprap where underlying filter fabric or gravel is showing or if stones have dislodged
CULVERTS	Spring and late fall and after heavy rains	Remove accumulated sediments and debris at the inlet, outlet, or within the conduit
		Remove any obstruction to flow
		Repair any erosion damage at the culvert's inlet and outlet
CATCHBASINS	Annually in the spring	Remove sediments and debris from the bottom of the basin and inlet grates
		Remove floating debris and oils (using oil absorptive pads) from any trap
ROADWAYS AND PARKING AREAS	Annually in the spring or as needed	Clear and remove accumulated winter sand in parking lots and along roadways
		Sweep pavement to remove sediment
		Grade road shoulders and remove accumulated winter sand
		Grade gravel roads and gravel shoulders
		Clean-out the sediment within water bars or open-top culverts
		Ensure that stormwater runoff is not impeded by false ditches of sediment in the shoulder
RESOURCE AND TREATEMENT BUFFERS	Annually in the spring	Inspect buffers for evidence of erosion, concentrated flow, or encroachment by development
		Manage the buffer's vegetation with the requirements in any deed restrictions
		Repair any sign of erosion within a buffer
		Inspect and repair down-slope of all spreaders and turn-outs for erosion
		Install more level spreaders, or ditch turn-outs if needed for a better distribution of flow
		Clean-out any accumulation of sediment within the spreader bays or turnout pools
		Mow non-wooded buffers no shorter than six inches and less than three times per year
WETPONDS AND DETENTION BASINS	Annually in fall and after heavy rains	Inspect the embankments for settlement, slope erosion, piping, and slumping
		Mow the embankment to control woody vegetation
		Inspect the outlet structure for broken seals, obstructed orifices, and plugged trash racks
		Remove and dispose of sediments and debris within the control structure
		Repair any damage to trash racks or debris guards
		Replace any dislodged stone in riprap spillways
		Remove and dispose of accumulated sediments within the impoundment and forebay
FILTRATION AND INFILTRATION BASINS	Annually in the spring and late fall	Clean the basin of debris, sediment and hydrocarbons
		Provide for the removal and disposal of accumulated sediments within the basin
		Renew the basin media if it fails to drain within 72 hours after a one inch rainfall event
		Till, seed and mulch the basin if vegetation is sparse
		Repair riprap where underlying filter fabric or gravel is showing or where stones have dislodged
PROPRIETARY DEVICES	As specified by manufacturer	Contract with a third-party for inspection and maintenance
		Follow the manufacturer's plan for cleaning of devices
OTHER PRACTICES	As specified for devices	Contact the department for appropriate inspection and maintenance requirements for other drainage control and runoff treatment measures.

ATTACHMENT 11

SITE CONDITIONS REPORT

ATTACHMENT 11

SITE CONDITIONS REPORT

EXISTING CONDITIONS PLAN

See Project Plans for the existing site conditions which show resources boundaries and components of the proposed construction activities.

SITE CONDITIONS DESCRIPTION

The proposed pier will extend into the Penobscot River from the northern shore of Bowden Point. The pier will be located on what is currently a small peninsula composed of rocks and fill material. The feature is approximately 95 feet wide and extends approximately 300 feet into the river at low tide. There is a stream that drains into the Penobscot river approximately 130 to the southeast of the project area.

The inland area along the shoreline is heavily wooded, consisting mainly of pine trees. The shoreline is described as a boulder/cobble beach, being dominated by boulders of varying size and loose rounded rocks. The beach transitions into mudflats closer to the channel. The existing peninsula is covered in rockweed and marsh grasses. Patches of rockweed are also found throughout the mud flat areas attached to boulders.

Information and Planning Consultation through the US Fish and Wildlife Service identified two endangered species habitats in the project area: Northern Long-eared Bat and Atlantic Salmon.

Both upriver and downriver of the project area, the shoreline is considered moderately stable. The beach areas consists mainly of boulders and smaller rocks, and is exposed to tidal activity.

The proposed development is within a mapped flood Zone (Zone VE), as shown on the attached FEMA map. The pier will be installed with adequate supports to ensure that the structure will remain stable and undamaged in the event of flooding and storm surges.

The Penobscot River channel is approximately 5,150 feet wide at the location of the development. There will be no fill added to the navigable channel, and material removal will only include what is required to install the cofferdam supports.

National Flood Hazard Layer FIRMette

FEMA

68°50'48"W 44°36'18"N

68°50'11"W 44°35'53"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 — Cross Sections with 1% Annual Chance
- 17.5 — Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/9/2020 at 2:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Maine Ecological Services Field Office
P. O. Box A
East Orland, ME 04431
Phone: (207) 469-7300 Fax: (207) 902-1588
http://www.fws.gov/mainefieldoffice/index.html

In Reply Refer To: November 04, 2020
Consultation Code: 05E1ME00-2021-SLI-0143
Event Code: 05E1ME00-2021-E-00393
Project Name: salmons Quarry

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies the threatened, endangered, candidate, and proposed species and designated or proposed critical habitat that may occur within the boundary of your proposed project or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC Web site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the Endangered Species Consultation Handbook at: http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

This species list also identifies candidate species under review for listing and those species that the Service considers species of concern. Candidate species have no protection under the Act but are included for consideration because they could be listed prior to completion of your project. Species of concern are those taxa whose conservation status is of concern to the Service (i.e., species previously known as Category 2 candidates), but for which further information is needed.

If a proposed project may affect only candidate species or species of concern, you are not required to prepare a Biological Assessment or biological evaluation or to consult with the Service. However, the Service recommends minimizing effects to these species to prevent future conflicts. Therefore, if early evaluation indicates that a project will affect a candidate species or species of concern, you may wish to request technical assistance from this office to identify appropriate minimization measures.

Please be aware that bald and golden eagles are not protected under the Endangered Species Act but are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.). Projects affecting these species may require development of an eagle conservation plan: http://www.fws.gov/windenergy/eagle_guidance.html Information on the location of bald eagle nests in Maine can be found on the Maine Field Office Web site: http://www.fws.gov/mainefieldoffice/Project%20review4.html

Additionally, wind energy projects should follow the wind energy guidelines: http://www.fws.gov/windenergy/ for minimizing impacts to migratory birds and bats. Projects may require development of an avian and bat protection plan.

Migratory birds are also a Service trust resource. Under the Migratory Bird Treaty Act, construction activities in grassland, wetland, stream, woodland, and other habitats that would result in the take of migratory birds, eggs, young, or active nests should be avoided. Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g.,

cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm and at: http://www.towerkill.com; and at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Maine Ecological Services Field Office
P. O. Box A
East Orland, ME 04431
(207) 469-7300

Project Summary

Consultation Code: 05E1ME00-2021-SLI-0143

Event Code: 05E1ME00-2021-E-00393

Project Name: salmons Quarry

Project Type: DEVELOPMENT

Project Description: Pier

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/44.60144167112942N68.84220440404027W

Counties: Waldo, ME

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Fishes

NAME	STATUS
Atlantic Salmon *Salmo salar* Population: Gulf of Maine DPS There is **final** critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2097	Endangered

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Atlantic Salmon *Salmo salar* https://ecos.fws.gov/ecp/species/2097#crithab	Final

ATTACHMENT 12

FUNCTIONAL ASSESSMENT

OVERVIEW

The proposed project will consist of development of a rock quarry operational area and construction of a permanent pier on a currently undeveloped property. Based on the current proposed construction plans, the construction of the rock Quarry operational areas will result in 14,038 sf of freshwater wetland disturbance and the pier construction will result in 28,792 sf of disturbance within the inter-tidal area of the Penobscot River. Additional disturbances will result below the low water levels of the river but are not included in this assessment. Since the project includes two different wetland communities, each area has been assessed individually.

Mapping

Freshwater wetland areas were mapped in July and August of 2019 in accordance with the 1987 Federal Manual for mapping wetlands as published by the US Army Corps of Engineers. Wetland classification was based on the Cowardin classification system.

Coastal (intertidal) wetlands areas were determined by observed high water limits and low water elevations of the Penobscot River.

Freshwater Wetlands

Four (4) freshwater wetland areas were identified within the proposed project construction area as shown on the attached site plan. All of these wetlands would be considered isolated forested wetlands and not wetlands of special significance.

Wetlands 1, 2, and 3 are seasonally saturated, palustrine, forested, deciduous and coniferous wetlands (PFO 1&2) with small areas that are scrub/shrub wetlands (PSS1). They are all associated with seasonal drainage swales which run northerly to the riverbank of the Penobscot River. These areas are dominated by red maple, black spruce, gray birch, balsam fir, sensitive fern, interrupted fern, blue joint, sarsaparilla, and sphagnum moss. Soils in the wetlands consisted of sandy loams and silt loams. Hydrology in the wetlands is a combination of surface water, saturation, and drainage.

Wetland 4 consists of a seasonally saturated, palustrine, forested, deciduous and coniferous wetlands (PFO 1&2). This area is associated with a small forest depression and is dominated by red maple, black spruce, gray birch, balsam fir, sensitive fern, interrupted fern, and sphagnum moss. Soils only consist of sandy loams and silt loams.

Hydrology in the wetlands was a combination of surface water and saturation.

The following functional assessment for these described areas was prepared in accordance with The Highway Methodology Workbook Supplement – Wetland Functions and Values, "A Descriptive Approach" as published by the US Army Corps of Engineers. This includes the 13 functions and values that are considered by the regulatory branch for any section 404 permit.

For this assessment, wetland areas 1,2 and 3 were assessed together. As can be noted from the site plan, these areas are all very similar and would have identical functions and values. They are all small wetland areas associated with drainage swales in close proximity to the shoreline of the Penobscot River. Existing vegetation and topographic conditions are also very similar.

Based on the completed wetland function-valuation form attached to this report, the principal functions include Groundwater Recharge/Discharge, Sediment/Shoreline Stabilization and Wildlife Habitat. No values were identified for these areas. We are providing additional on the identified functions as follows:

Groundwater Recharge/Discharge – All three of these wetland areas would provide groundwater discharge. No recharge is occurring due to topography and lack of any significant impoundment which would facilitate infiltration. The wetlands are however linear and perpendicular to the site slopes. This somewhat limits the effectiveness of this function to the area immediately adjacent to them. They are also very narrow which further reduces the effectiveness.

Sediment /Shoreline Stabilization – All three wetlands provide sediment stabilization. They do not provide any significant shoreline stabilization due to their location. The sediment stabilization value is based on the ability to convey groundwater and surface water down the slope prior to discharge into the tidal areas of the river. Existing vegetation provides a stable swale to convey flows without resulting in erosion of the granular subsoil. Since upgradient areas are currently undeveloped, flows to these wetlands appears to be minimal and no stream or concentrated flow channels are present.

Wildlife Habitat – The wildlife habitat function of all these wetland areas is very limited. The areas are small and do not provide distinct habitat functions which are unique to the overall area. No specific habitat components were identified, and it is anticipated that any function would be associated with amphibians and lower trophic organisms.

Based on the proposed construction plan, 100% of wetland area #1 will be eliminated by fill operations, Wetland area #2 will eliminate approximately 85% of the wetland swale it

is associated with and wetland area #3 will eliminate approximately 50% of the wetland swale it is associated with. The unaltered areas of the wetland swales should still provide the functions identified after completion of the project.

Coastal Wetlands

The coastal wetlands affected by the project includes the intertidal zone of the project area as shown on the attached site plan. This area would generally be classified as a tidal estuarine/marine wetland.

The project area is characterized as a high energy channel with typical upper, mid, and lower intertidal zones. Substratum in the project area consists of boulder beach, mixed coarse and fines as well as ledge. A visual epifauna survey of the project area identified salt marsh grasses and legumes in the upper zone as well as evidence of filamentous green algae and possible cyanobacteria. The mid and lower zones were dominated by brown and red seaweed. The project area also drains completely and no pools or standing water occurs on the flats.

Adjacent areas upstream and downstream from the project areas were found to include beach type areas consisting of mixed coarse and fines which contained salt marsh vegetation in the upper limits. Mid tide limits were generally devoid of vegetation and the lower limits contained brown and red seaweed.

The functional assessment for this area was prepared using guidelines included the "Maine's Coastal Wetlands: II. Recommended Functional Assessment Guidelines" as published by The Maine Department of Environmental Protection.

An evaluation of the proposed project area determined that there are two distinct areas of disturbance within the intertidal zone. This includes the proposed fill section of the pier and a small section of a proposed cofferdam support structures located in the extreme lower limits of the zone. The fill section of the pier includes a total area of approximately 28,422 square feet. This area is made up of approximately 3,750 sf of salt marsh habitat, 14,803 sf of Rockweed and Boulder habitat and 9,869 sf of sandy/cobble beach area. The cofferdam area is a total of 349 sf of sandy/silty beach area.

A visual inspection of the proposed area of disturbance indicated that a significant amount of the area appears to include old historic fill from an old historic pier structure. Evidence of boulder and cobble fill was noted throughout. It is likely that the Sandy/cobble beach area and sandy/silty beach areas are the only undisturbed areas of the project. The entire area was found to be very typical of the intertidal areas of the river in this region. While no detailed investigation was completed at this time, it

appeared apparent that Benthos is sparse within the upper limits of the area and increase within the extreme lower limits. This is due to the salinity stratification of the area.

Based on the conditions found, it is likely that the area provides a feeding area for birds and also a nursery habitat for fish larvae and adults. We would therefore conclude that the principal function of the area will be wildlife and marine fisheries habit.

The area of disturbance will result in elimination the natural areas providing these functions within the project footprint. While some habitat area will be established on riprap fill slopes it will not totally offset the natural areas lost. Since the disturbance will occur within the regional intertidal area of the Penobscot River the percentage of impact on the total area will be small.

CONCLUSION

The project as currently proposed will result in the permanent loss of approximately 14,038 sf of freshwater wetland area and 15,152 sf of coastal wetland (intertidal area). Based on the analysis completed the wetland habitat functions lost will not result in a significant impact to the local and regional habitat areas. Mitigation through the In-lieu fee program appears the most appropriate option for compensation for these wetland area disturbances.

PHOTOLOG

Photo No. 1	
Photo Date: December 10, 2020	
Site Location: Bowden Point Properties, LLC	
Description: Freshwater Wetland Disturbance Area #1	
Photo By: Haley Ward, Inc.	

Photo No. 2	
Photo Date: December 10, 2020	
Site Location: Bowden Point Properties, LLC	
Description: Freshwater Wetland Disturbance Area #2	
Photo By: Haley Ward, Inc.	

Photo No. 3 Photo Date: December 10, 2020 Site Location: Bowden Point Properties, LLC Description: Freshwater Wetland Disturbance Area #3 Photo By: Haley Ward, Inc.	

Photo No. 4 Photo Date: December 10, 2020 Site Location: Bowden Point Properties, LLC Description: Freshwater Disturbance Area #4 Photo By: Haley Ward, Inc.	

Photo No. 5 Photo Date: December 10, 2020 Site Location: Bowden Point Properties, LLC Description: North Side of proposed fill section of pier Photo By: Haley Ward, Inc.	

Photo No. 6 Photo Date: December 10, 2020 Site Location: Bowden Point Properties, LLC Description: Center view of proposed fill section of pier Photo By: Haley Ward, Inc.	

Photo No. 7 Photo Date: December 10, 2020 Site Location: Bowden Point Properties, LLC Description: South side of proposed fill section of pier Photo By: Haley Ward, Inc.	

Photo No. 8 Photo Date: December 10, 2020 Site Location: Bowden Point Properties, LLC Description: Typical bottom conditions at cofferdam construction area Photo By: Haley Ward, Inc.	

Wetland Function-Value Evaluation Form

Total area of wetland X Human made? NO Is wetland part of a wildlife corridor? NO or a "habitat island"? NO

Adjacent land use Forested Distance to nearest roadway or other development 0.5 miles

Dominant wetland systems present Forested Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Lower Limits

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. Wetland #1, #2 and #3

Latitude X Longitude X

Prepared by: HW Date 1/25/2022

Wetland Impact:
Type Fill Area 807

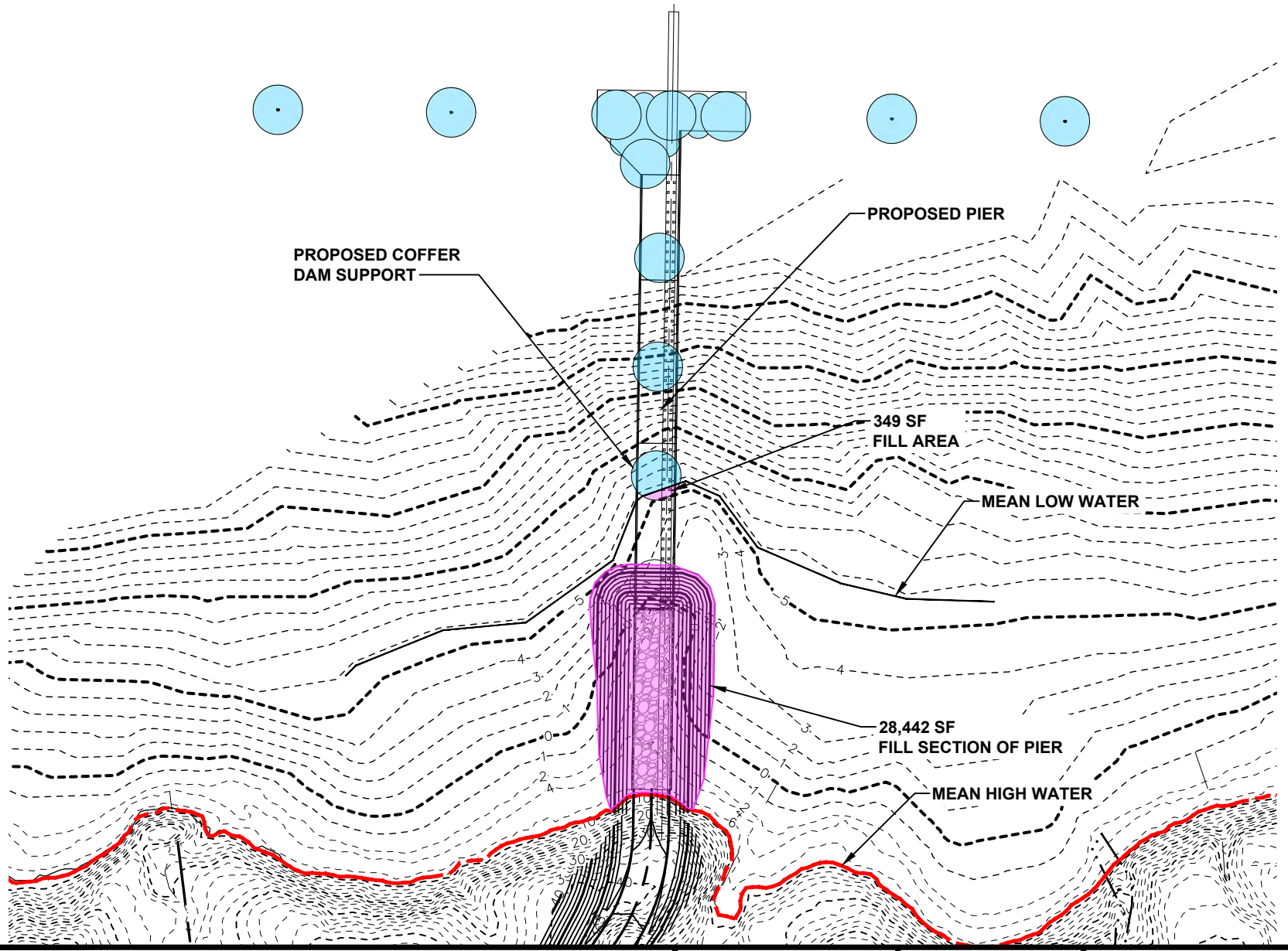
Evaluation based on:
Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	Y	4,7,10	Y	Groundwater discharge function only. Wetland is associated with an intermittant Drainage
Floodflow Alteration	N			Topography precludes opportunity for this function
Fish and Shellfish Habitat	N			Not associated with a watercourse
Sediment/Toxicant Retention	N			Topography and size precludes opportunity for this function
Nutrient Removal	N			Topography and size precludes opportunity for this function
Production Export	N			Configuration of wetland does not result in any significant production of any product
Sediment/Shoreline Stabilization	Y	2,9,15	Y	Opportunity exists and vegetation within wetland provides function
Wildlife Habitat	Y	3,4,5		Habitat function is limited and is only associated with adjacent upland areas
Recreation	N			No recreational opportunities exist
Educational/Scientific Value	N			Wetland is small and does not provide any characteristics of educational value
Uniqueness/Heritage	N			Wetland is very typical
Visual Quality/Aesthetics	N			Wetland is small and not part of any visual views
ES Endangered Species Habitat	N			None Known
Other				

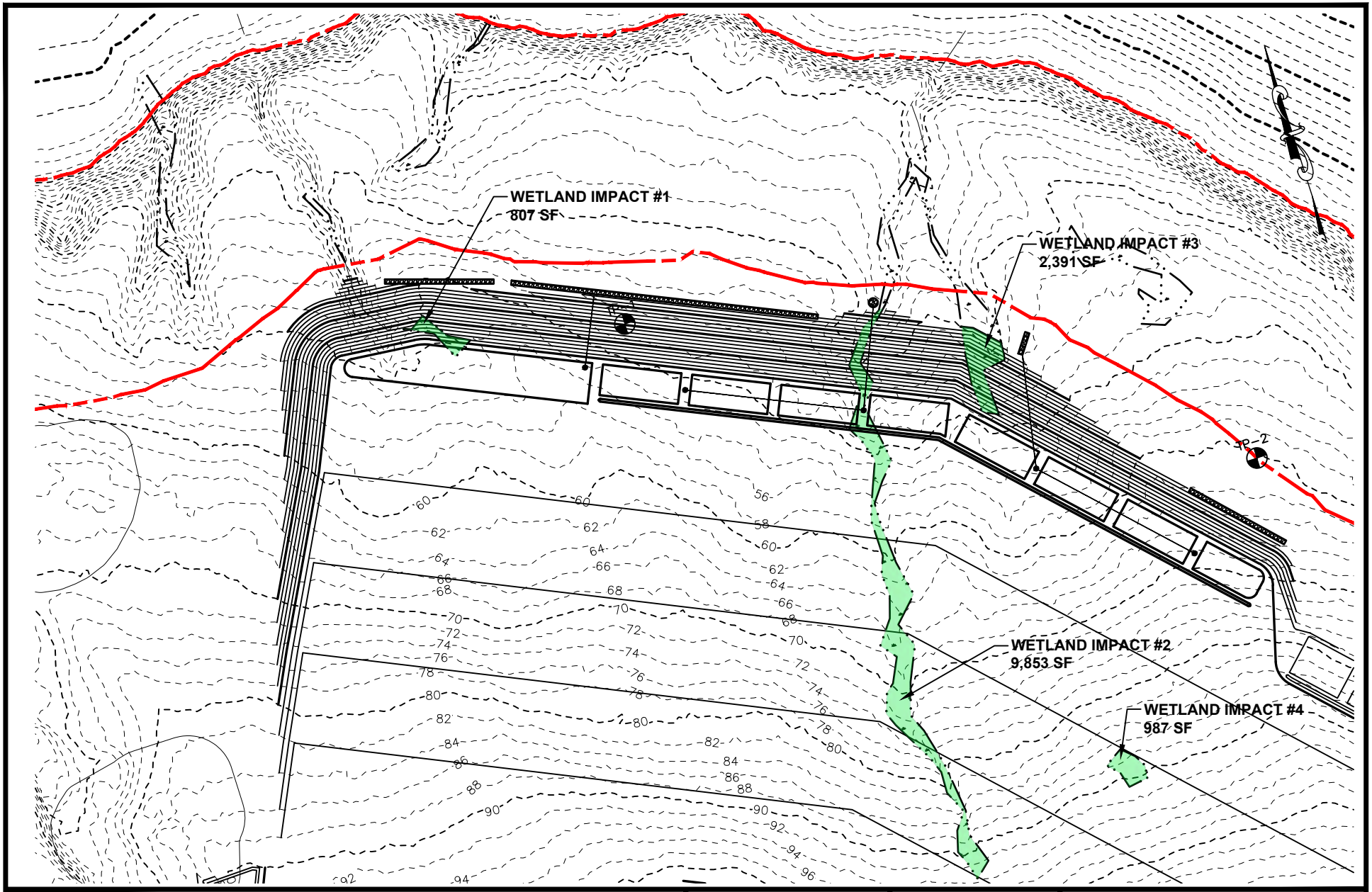
Notes:

* Refer to backup list of numbered considerations.



PROJECT **BOWDEN POINT PROPERTIES, LLC** **PROSPECT, MAINE**	DWG No. **1**	BY WAB	
		DATE 2022.01.25	
TITLE **COASTAL WETLANDS** **FUNCTIONAL ASSESSMENT SITE PLAN**	JN 12617.001	REV.	
	SCALE 1"=150'	REV. DATE	

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING



PROJECT **BOWDEN POINT PROPERTIES, LLC** **PROSPECT, MAINE**	DWG No. **2**	BY WAB	
		DATE 2022.01.26	
TITLE **FRESHWATER WETLANDS FUNCTIONAL ASSESSMENT SITE PLAN**	JN 12617.001	REV.	
	SCALE 1"=150'	REV. DATE	

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

ATTACHMENT 13

COMPENSATION

Summary

The Applicant, Bowden Point Properties, proposes to compensate for lost wetland functions associated with the project through the In Lieu Fee Program. Based on the latest DEP Fact Sheet dated 1/1/2022-12/31/2022 the following in lieu compensation has been calculated for the project:

Freshwater Wetlands (not of special significance)

The total area of freshwater wetland permanent disturbance will be 14,038 sf. The fact sheet indicates this fee to be $5.05 per sf for Natural Resource Enhancement and Restoration cost and $0.10 per square foot for Average Assessed Land Value (Waldo County)

Fee = 14,038 x ($5.05+$0.10) = $72,295.70

Coastal Wetlands

The total area of coastal wetland permanent disturbance will be 49,621 sf. The fact sheet indicates this fee to be $5.05 per sf for Natural Resource Enhancement and Restoration cost and $0.10 per square foot for Average Assessed Land Value and a multiplier of 2 for wetlands of significance associated with a specific resource. (Waldo County)

Fee = 49,621 x ($5.05+$0.10) x 2 = $511,096.30

Total Project Compensation = $583,392.00

ATTACHMENT 14

NOTICES
Notice of Intent
Abutters List
Certified Mail List and Receipts

FORM B

PUBLIC NOTICE:
NOTICE OF INTENT TO FILE AND
NOTICE OF PUBLIC INFORMATIONAL MEETING

Please take notice that Salmons Incorporated, P.O Box 57008, Virginia Beach, VA 23457, 757-409-0246 is intending to file a Permit Application with the Maine Department of Environmental Protection pursuant to the Site Location of Development Act permit application under the provisions of 38 M.R.S.A. §§ 481 thru 490, as well as a Natural Resources Protection Act permit application pursuant to provisions of 38 M.R.S.A §§ 480-A thru 480-BB on or about February 7, 2022. The application is for the permitting of an approximately 50-acre mineral processing facility and associated pier, located off the Bowden Point Road in Prospect, Maine. For Federally licensed, permitted, or funded activities in the Coastal Zone, review of this application shall also constitute the State's consistency review in accordance with the Maine Coastal Program pursuant to Section 307 of the federal Coastal Zone Management Act, 16 U.S.C. § 1456.

A virtual Public Informational Meeting will be held at 11:00 AM on February 4, 2022. To obtain the necessary call information please contact Haley Ward at 207-989-4824 before 5:00 PM on February 3, 2022. The purpose of this meeting is to provide information about this project to any interested parties.

A request for a public hearing or a request that the Board of Environmental Protection assume jurisdiction over this application must be received by the Department in writing, no later than 20 days after the application is found by the Department to be complete and is accepted for processing. A public hearing may or may not be held at the discretion of the Commissioner or Board of Environmental Protection. Public comment on the application will be accepted throughout the processing of the application.

Applications will be filed for public inspection at the Department of Environmental Protection's office in Bangor during normal working hours. A copy of the application may also be seen at the municipal offices in Prospect, Maine.

Written public comments on the Applications may be sent to the Department's regional office in Bangor where the applications are filed for public inspection: MDEP, Eastern Maine Regional Office, 106 Hogan Road, Bangor, ME 04401.

BOWDEN POINT PROPERTIES, LLC
PROSPECT QUARRY PROCESSING FACILTIY, PROSPECT, MAINE
ABUTTER LIST as of NOVEMBER 30, 2021

MAP	LOT	NAME AND MAILING ADDRESS
11	4	BOWDEN POINT PROPERTIES PO BOX 54008, VIRGINIA BEACH, VA 23457
11	22	HANSON, TODD H. 44 MIDDLE ST. UNIT 412 BUCKSPORT ME 04416
11	25-1	PERRY, MIRIAM & PERRY, EDWARD F. & REGINA 144 FORT KNOX ROAD PROSPECT ME 04981
11	27	PERRY, MIRIAM & PERRY, EDWARD F. & REGINA 144 FORT KNOX ROAD PROSPECT ME 04981
11	28	PERRY, MIRIAM & PERRY, EDWARD F. & REGINA 144 FORT KNOX ROAD PROSPECT ME 04981
11	29	BOWDEN POINT PROPERTIES PO BOX 54008, VIRGINIA BEACH, VA 23457
11	30	PERRY, MIRIAM & PERRY, EDWARD F. & REGINA 144 FORT KNOX ROAD PROSPECT ME 04981
11	31	BOWDEN POINT PROPERTIES PO BOX 54008, VIRGINIA BEACH, VA 23457

BOWDEN POINT PROPERTIES
PROSPECT, MAINE

CERTIFIED MAIL LIST & RECEIPTS

Mailed: Tuesday, January 25, 2022

Town of Prospect
958 Bangor Road
Prospect, Maine 04981

Bowden Point Properties
PO Box 54008
Virginia Beach, VA 23457

Todd H. Hanson
44 Middle Street, Unit 412
Bucksport, Maine 04416

Edward & Reginia & Miriam Perry
144 Fort Knox Road
Prospect, Maine 04981

JN: 12617.001

SLODA

ATTACHMENT 15

MHPC CONSULATATION
Tribal Letters

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
FORMERLY: CES INC

January 8, 2021

Aroostook Band of Micmacs
Attn: Jennifer Pictou, Tribal Historic Preservation Officer
7 Northern Road
Presque Isle, Maine 04769
jpictou@micmac-nsn.gov

Re: Salmons Incorporated | Salmons Quarry Operations | Prospect, Maine

Dear Ms. Pictou:

Haley Ward, Inc. is assisting Salmons Quarry with the design and permitting of a pier to be used in support of mineral extraction activities on Bowden Point in Prospect, Maine. The Applicant proposes to construct a 525-foot-long pier off the northern shore of Bowden Point onto the Penobscot River.

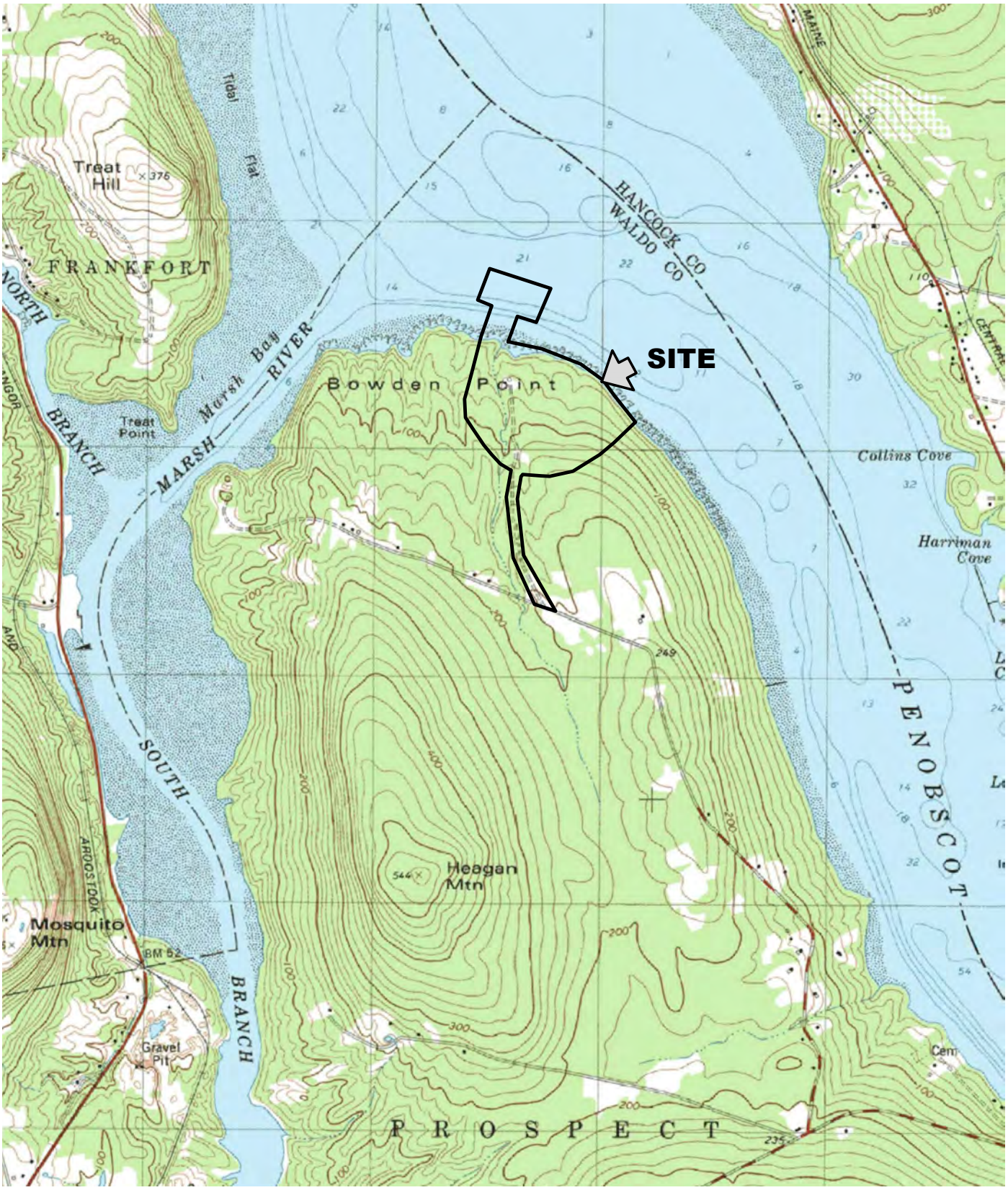
For your reference, the site location is indicated on the attached location map. For additional information on the proposed project, including the permit application materials, please contact us at 207-989-4824, or at chaskell@haleyward.com. These materials are sent for your review as part of the Natural Resources Protection Act and US Army Corps of Engineers permitting requirements.

Sincerely,
Haley Ward, Inc.

Chip Haskell
Project Manager

ACH/alf/cmc
Enc.
Location Map

120 Main Street, Suite 132, Saco, ME 04072
T: 207.283.9151 | HALEYWARD.COM



SOURCE:
U.S.G.S. TOPOGRAPHIC QUADRANGLE
BUCKSPORT
@ 1:24,000

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

SALMONS INCORPORATED
PROSPECT, MAINE

LOCATION MAP

2021-01-04
12617.001

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
FORMERLY: CES INC

January 8, 2021

Houlton Band of Maliseet Indians
Attn: THPO & Environmental Planner
88 Bell Road
Littleton, Maine 04730
envplanner@maliseets.com
ogs1@maliseets.com

Re: Salmons Incorporated | Salmons Quarry Operations | Prospect, Maine

To whom it may concern:

Haley Ward, Inc. is assisting Salmons Quarry with the design and permitting of a pier to be used in support of mineral extraction activities on Bowden Point in Prospect, Maine. The Applicant proposes to construct a 525-foot-long pier off the northern shore of Bowden Point onto the Penobscot River.

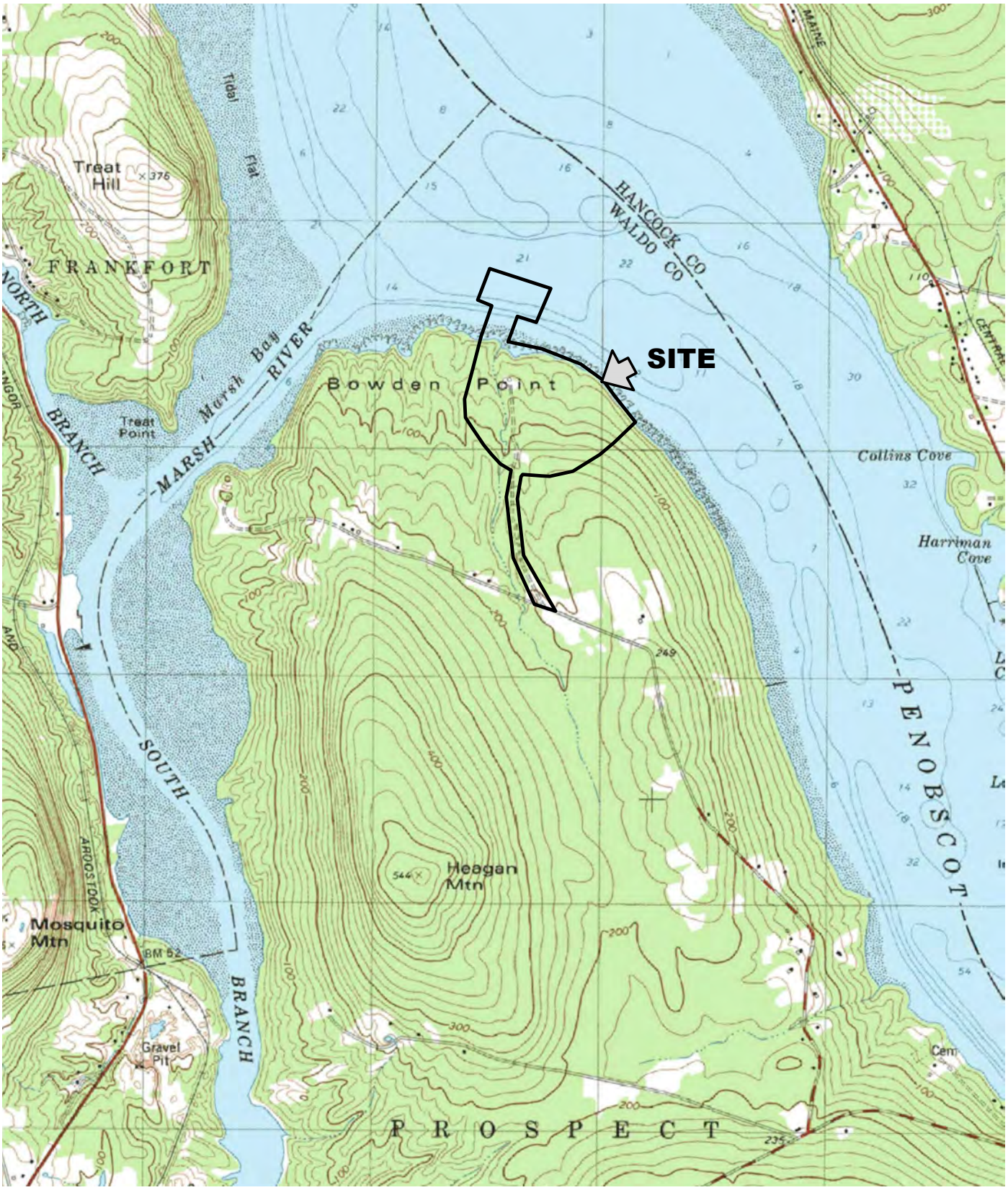
For your reference, the site location is indicated on the attached location map. For additional information on the proposed project, including the permit application materials, please contact us at 207-989-4824, or at chaskell@Haleyward.com. These materials are sent for your review as part of the Natural Resources Protection Act and US Army Corps of Engineers permitting requirements.

Sincerely,
Haley Ward, Inc.

Chip Haskell
Project Manager

ACH/cmc
Enc. Location Map

120 Main Street, Suite 132, Saco, ME 04072
T: 207.283.9151 | HALEYWARD.COM



SOURCE:
U.S.G.S. TOPOGRAPHIC QUADRANGLE
BUCKSPORT
@ 1:24,000

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

SALMONS INCORPORATED
PROSPECT, MAINE

LOCATION MAP

2021-01-04
12617.001

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
FORMERLY: CES INC

January 8, 2021

Passamaquoddy Tribe of Indians
Pleasant Point Reservation
Attn: Donald Soctomah, Tribal Historic Preservation Officer
P.O. Box 343
Perry, Maine 04667
soctomah@gmail.com

Re: Salmons Incorporated | Salmons Quarry Operations | Prospect, Maine

Dear Mr. Soctomah:

Haley Ward, Inc. is assisting Salmons Quarry with the design and permitting of a pier to be used in support of mineral extraction activities on Bowden Point in Prospect, Maine. The Applicant proposes to construct a 525-foot-long pier off the northern shore of Bowden Point onto the Penobscot River.

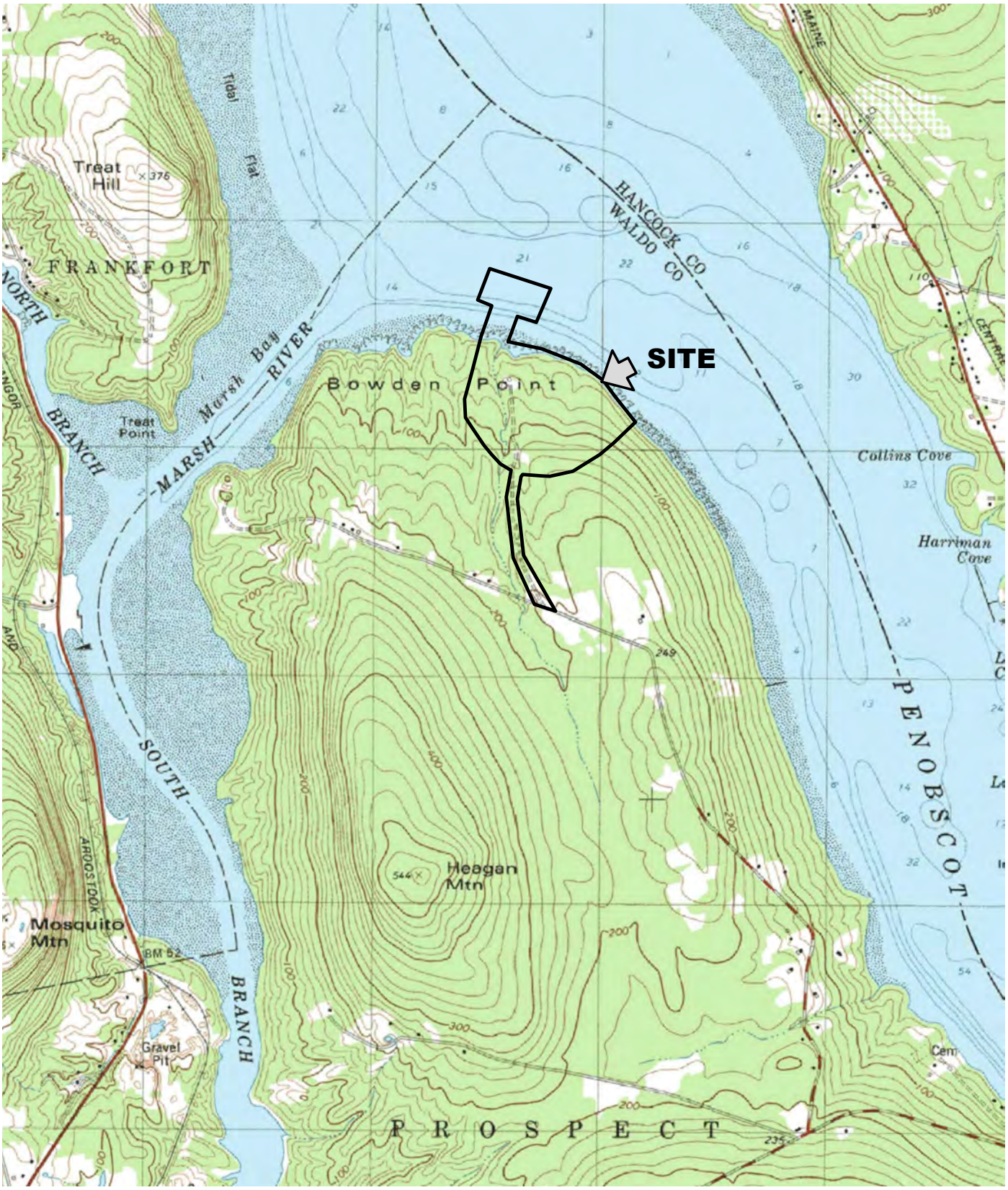
For your reference, the site location is indicated on the attached location map. For additional information on the proposed project, including the permit application materials, please contact us at 207-989-4824, or at chaskell@Haleyward.com. These materials are sent for your review as part of the Natural Resources Protection Act and US Army Corps of Engineers permitting requirements.

Sincerely,
Haley Ward, Inc.

Chip Haskell
Project Manager

ACH/cmc
Enc.
Location Map

120 Main Street, Suite 132, Saco, ME 04072
T: 207.283.9151 | HALEYWARD.COM



SOURCE:
U.S.G.S. TOPOGRAPHIC QUADRANGLE
BUCKSPORT
@ 1:24,000

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

SALMONS INCORPORATED
PROSPECT, MAINE

LOCATION MAP

2021-01-04
12617.001

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
FORMERLY: CES INC

January 8, 2021

Passamaquoddy Tribe of Indians
Indian Township Reservation
Attn: Donald Soctomah, Tribal Historic Preservation Officer
P.O. Box 301
Princeton, Maine 04668
soctomah@gmail.com

Re: Salmons Incorporated | Salmons Quarry Operations | Prospect, Maine

Dear Mr. Soctomah:

Haley Ward, Inc. is assisting Salmons Quarry with the design and permitting of a pier to be used in support of mineral extraction activities on Bowden Point in Prospect, Maine. The Applicant proposes to construct a 525-foot-long pier off the northern shore of Bowden Point onto the Penobscot River.

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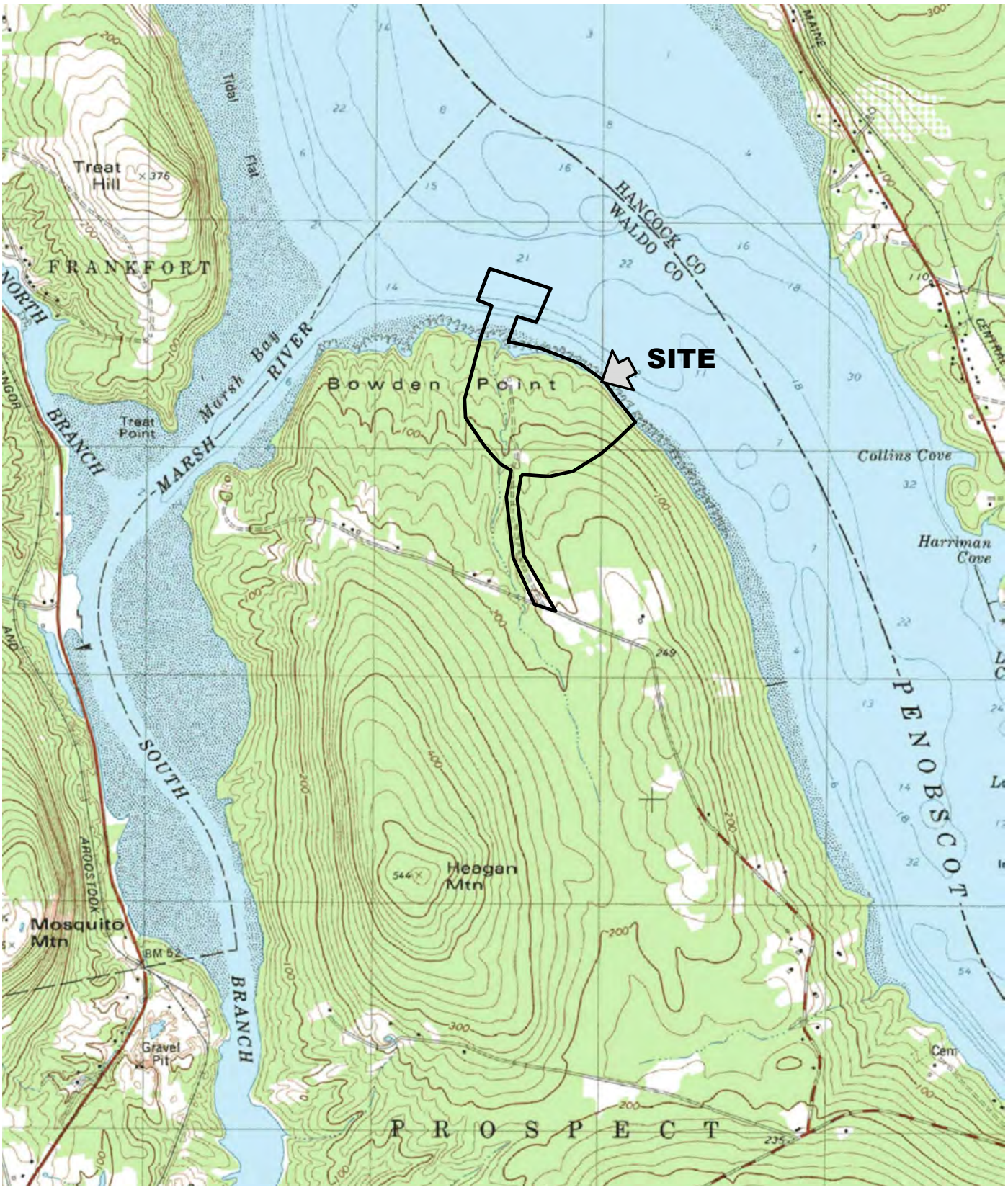

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HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

SALMONS INCORPORATED
PROSPECT, MAINE

LOCATION MAP

2021-01-04
12617.001

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
FORMERLY: CES INC

January 8, 2021

Penobscot Nation
Cultural and Historic Preservation Department
Attn: Chris Sockalexis, Tribal Historic Preservation Officer
12 Wabanaki Way
Indian Island, Maine 04468
Chris.sockalexis@penobscotnation.org

Re: Salmons Incorporated | Salmons Quarry Operations | Prospect, Maine

Dear Mr. Sockalexis:

Haley Ward, Inc. is assisting Salmons Quarry with the design and permitting of a pier to be used in support of mineral extraction activities on Bowden Point in Prospect, Maine. The Applicant proposes to construct a 525-foot-long pier off the northern shore of Bowden Point onto the Penobscot River.

For your reference, the site location is indicated on the attached location map. For additional information on the proposed project, including the permit application materials, please contact us at 207-989-4824, or at chaskell@Haleyward.com. These materials are sent for your review as part of the Natural Resources Protection Act and US Army Corps of Engineers permitting requirements.

Sincerely,
Haley Ward, Inc.

Chip Haskell
Project Manager

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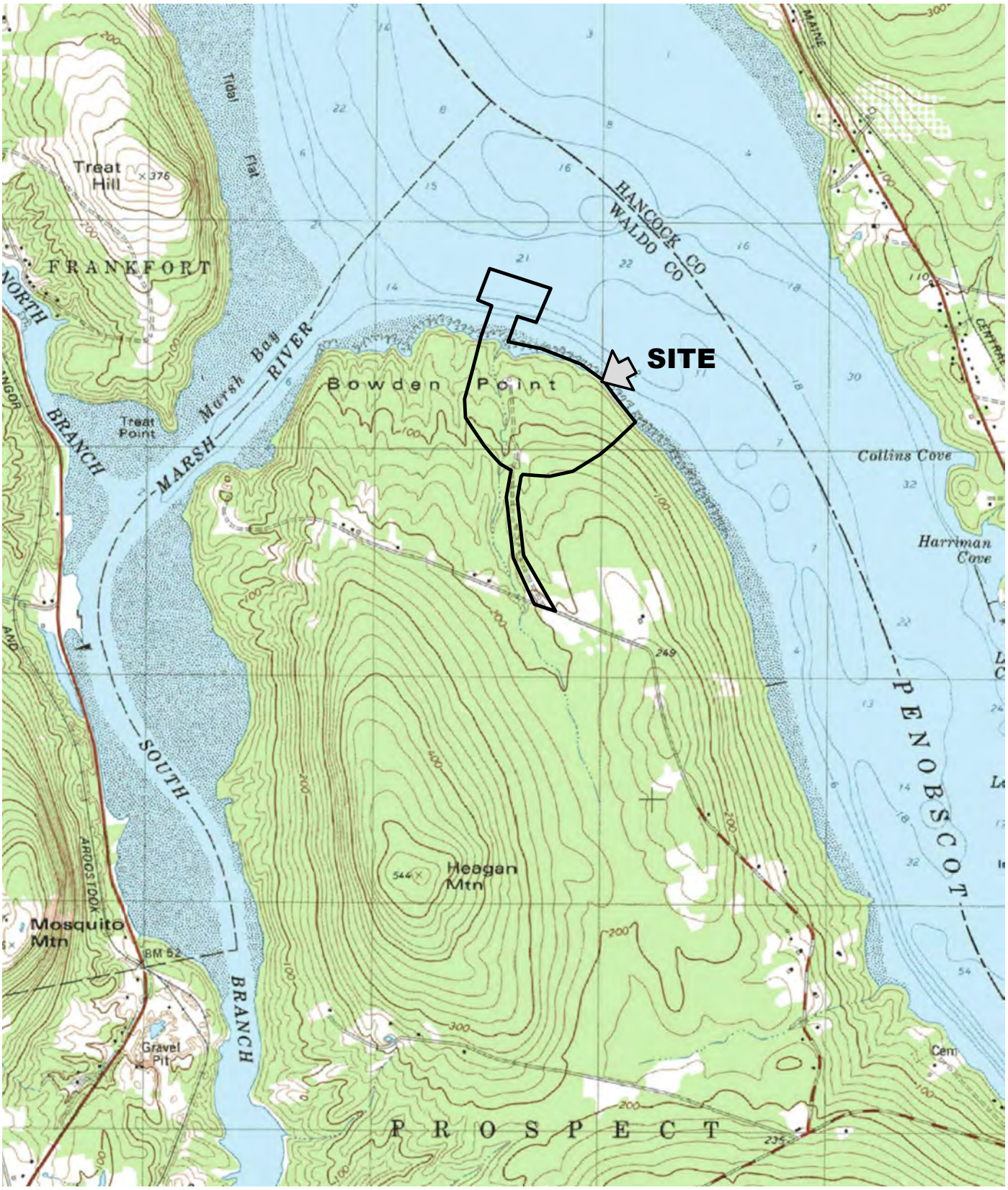
T: 207.283.9151 | HALEYWARD.COM



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HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING

SALMONS INCORPORATED
PROSPECT, MAINE

LOCATION MAP

2021-01-04
12617.001

APPENDIX A

MDEP VISUAL EVALUATION SURVEY

APPENDIX A - MDEP VISUAL EVALUATION
FIELD SURVEY CHECKLIST
(Natural Resources Protection Act, 38 M.R.S. §§ 480 A - Z)

Name of applicant: BOWDEN POINT PROPERTIES Phone: 757-409-0246

Application Type: NRPA TIER III

Activity Type: (brief activity description) PIER

Activity Location: Town: PROSPECT County: WALDO

GIS Coordinates, if known: 44.60171 -68.841444

Date of Survey: 12.8.2020 Observer: DREW OLEHOWSKI Phone: 207-989-4824

	Distance Between the Proposed Visibility Activity and Resource (in Miles)			
1. Would the activity be visible from:	0-¼	¼-1	1+	
A. A National Natural Landmark or other outstanding natural feature?	☐	☐	☐	N/A
B. A State or National Wildlife Refuge, Sanctuary, or Preserve or a State Game Refuge?	☐	☐	☐	N/A
C. A state or federal trail?	☐	☐	☐	N/A
D. A public site or structure listed on the National Register of Historic Places?	☐	☐	☐	N/A
E. A National or State Park?	☐	☐	☐	N/A
F. 1) A municipal park or public open space?	☐	☐	☐	N/A
2) A publicly owned land visited, in part, for the use, observation, enjoyment and appreciation of natural or man-made visual qualities?	☐	☐	☐	N/A
3) A public resource, such as the Atlantic Ocean, a great pond or a navigable river?	X	☐	☐	
2. What is the closest estimated distance to a similar activity?	☐	☐	X	
3. What is the closest distance to a public facility intended for a similar use?	☐	☐	☐	N/A

4. Is the visibility of the activity seasonal? (i.e., screened by summer foliage, but visible during other seasons)	☐Yes	XNo
5. Are any of the resources checked in question 1 used by the public during the time of year during which the activity will be visible?	XYes	☐No

(blue)

APPENDIX B

MDEP COASTAL WETLAND CHARACTERIZATION; INTERTIDAL & SHALLOW SUBTIDAL FIELD SURVEY CHECKLIST

APPENDIX B: MDEP COASTAL WETLAND CHARACTERIZATION: INTERTIDAL & SHALLOW SUBTIDAL FIELD SURVEY CHECKLIST

NAME OF APPLICANT: BOWDEN POINT PROPERTIES PHONE: 757-409-0246
APPLICATION TYPE: NRPA TIER III
ACTIVITY LOCATION: TOWN: PROSPECT COUNTY: WALDO

ACTIVITY DESCRIPTION: ☐ fill ☒ pier ☐ lobster pound ☐ shoreline stabilization
☐ dredge ☐ other: _____

DATE OF SURVEY: 12.08.2020 OBSERVER: DREW OLEHOWSKI

TIME OF SURVEY: 10:00 AM TO 12:00 PM TIDE AT SURVEY: LOW

SIZE OF DIRECT IMPACT OR FOOTPRINT (square feet):
Intertidal area: _____ Subtidal area: _____

SIZE OF INDIRECT IMPACT, if known (square feet): _____
Intertidal area: _____ Subtidal area: _____

HABITAT TYPES PRESENT (check all that apply):
☐ sand beach ☒ boulder/cobble beach ☐ sand flat ☐ mixed coarse & fines ☐ salt marsh
☐ ledge ☐ rocky shore ☒ mudflat (sediment depth, if known:____)

ENERGY: ☐ protected ☐ semi-protected ☐ partially exposed ☒ exposed

DRAINAGE: ☐ drains completely ☐ standing water ☒ pools ☒ stream or channel

SLOPE: ☐ >20% ☒ 10-20% ☐ 5-10% ☐ 0-5% ☐ variable

SHORELINE CHARACTER:
☐ bluff/bank (height from spring high tide:____) ☐ beach ☒ rocky ☒ vegetated

FRESHWATER SOURCES: ☒ stream ☐ river ☐ wetland ☒ stormwater

MARINE ORGANISMS PRESENT:

	absent	occasional	common	abundant
mussels	☒	☐	☐	☐
clams	☒	☐	☐	☐
marine worms	☒	☐	☐	☐
rockweed	☐	☐	☒	☐
eelgrass	☐	☐	☒	☐
lobsters	☒	☐	☐	☐
other	☐	☐	☐	☐

SIGNS OF SHORELINE OR INTERTIDAL EROSION? ☐ yes ☒ no

PREVIOUS ALTERATIONS? ☒ yes ☐ no

CURRENT USE OF SITE AND ADJACENT UPLAND:
☒ undeveloped ☐ residential ☐ commercial ☐ degraded ☐ recreational

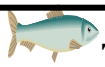
PLEASE SUBMIT THE FOLLOWING:
☒ Photographs ☒ Overhead drawing (pink)

APPENDIX C

MDEP PROJECT DESCRIPTION WORKSHEET FOR A DOCK, PIER, OR WHARF APPLICATION

Natural Resource Protection Act Application
APPENDIX C: Project Description Worksheet for a Dock, Pier or Wharf Application.

Help us process your application more efficiently by completing this worksheet, which is supplemental to a NRPA application for a dock, pier or wharf. A completed Appendix D may be substituted for Block 14 of the application page.



THIS IS AN APPLICATION FOR A…..

☐ Commercial wharf
If yes, indicate type of commercial activity: _____
License number: _____
Number of fishermen using this wharf: _____

☐ Public pier, dock or wharf

☐ Common or shared recreational pier, dock or wharf

☐ Private recreational pier, dock or wharf

☐ Expansion or modification of an existing structure

☒ Other, please indicate: *Commercial wharf for transportation and shipping of quarry product materials.*

TELL US ABOUT YOUR BOAT….

My boat(s) requires a draft of *25* feet.
My boat(s) is *560* feet long.

TELL US ABOUT YOUR PROJECT SITE…. For coastal piers and wharves, please complete Appendix B of the NRPA application. For freshwater docks, please describe the substrate and any vegetation: **See Appendix B**

SCENIC CONSIDERATIONS…Please complete Appendix A of the NRPA application.

WHAT FACILITIES ARE NEARBY?

The nearest public boat launch is located in **Frankfort** (town) approximately **1.4** (distance) miles from the project location.

The nearest public, commercial, or private marina is located in **Bucksport** (town) approximately **3.5** (distance) miles from the project location.

N/A

☐ I have inquired about slip or mooring availability at the nearest marina or public facility.

☐ Yes, a slip or mooring is available. ☐ No, a slip or mooring is not available.
Approximate expected time on waiting list: _____

☐ I have contacted the local Harbor Master.

Name: _____ Phone:_____

I currently use the following for my boat: ☐ Mooring ☐ Marina N/A

TELL US ABOUT YOUR PROPOSED PIER, DOCK OR WHARF…

MATERIALS:

☐ The structure will be supported by pilings.
_____ pilings of _____ inches in diameter

☐ The structure will be supported by stacked, flow-through granite cribs.
_____ blocks, measuring _____ feet by _____ feet

☐ The structure will be supported by solid fill.
_____ square feet of solid fill

☒ Other: *50' Diameter, granular filled coffer dams*

DIMENSIONS:

Length of fixed section: 705 feet
Width of fixed section: 40 feet
Length of ramp: N/A feet
Dimensions of float: N/A feet wide by ___ feet long
Distance the structure will extend below mean low water (MLW): 400 feet
Depth of water at the fixed end of the structure: 30 feet
Depth of water at the float at low tide: N/A feet
Depth of water at the float at high tide: N/A feet
Dimensions of any proposed buildings (e.g. bait shed):
N/A feet high by ___ feet wide by ___ feet long

ACCESS:

During construction, my project site will be accessed via:

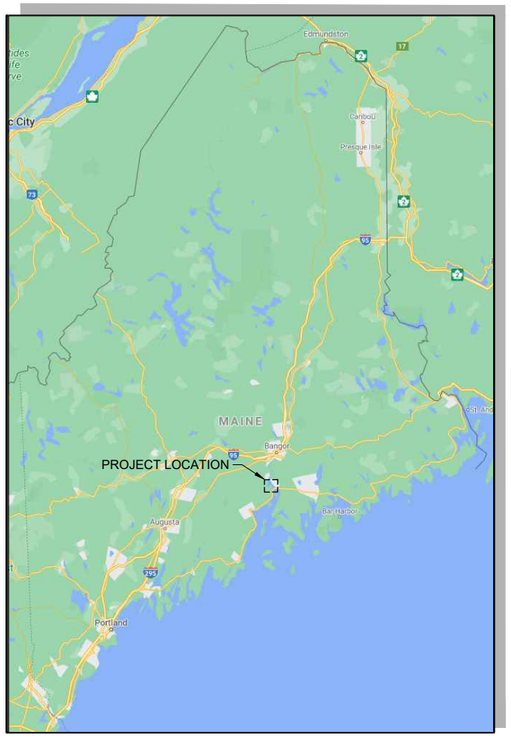
☒ Land

☐ Beach/intertidal area

☒ Water/barge

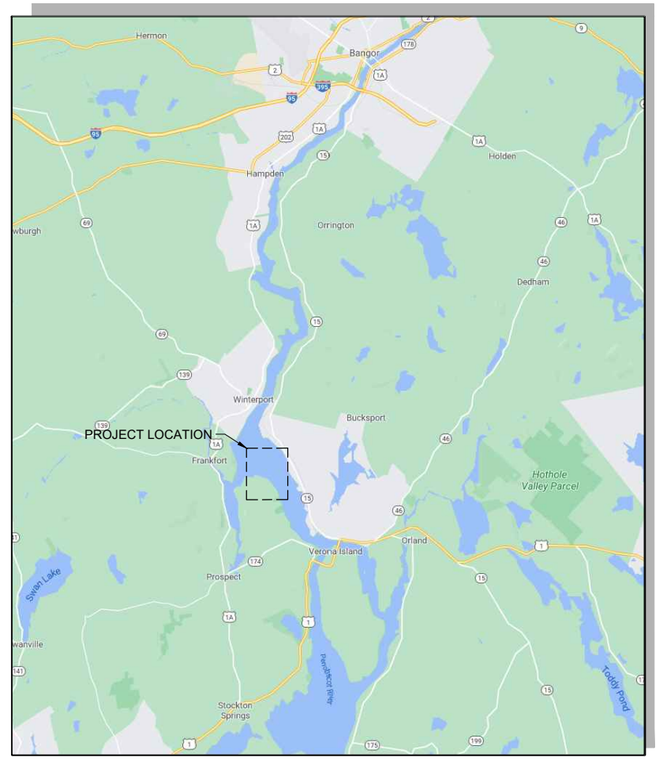
PROSPECT PIER

BOWDEN POINT TERMINAL DEVELOPMENT



VICINITY MAP
SCALE: NTS

Sheet List Table		
Index	Sheet Number	Sheet Title
1	G-001	TITLE SHEET
2	G-002	GENERAL NOTES - SHEET 1 OF 2
3	G-003	GENERAL NOTES - SHEET 2 OF 2
4	G-101	GENERAL ARRANGEMENT PLAN
5	C-001	EROSION & SEDIMENT CONTROL NOTES - SHEET 1 OF 3
6	C-002	EROSION & SEDIMENT CONTROL NOTES - SHEET 2 OF 3
7	C-003	EROSION & SEDIMENT CONTROL NOTES - SHEET 3 OF 3
8	C-101	EROSION & SEDIMENT CONTROL PLAN
9	C-102	E&S ENLARGED PLAN - SHEET 1 OF3
10	C-103	E&S ENLARGED PLAN - SHEET 2 OF3
11	C-104	E&S ENLARGED PLAN - SHEET 3 OF3
12	CS-101	EXISTING TOPO AND HYDRO
13	S-001	STRUCTURAL NOTES
14	S-100	COFFERDAM GENERAL PLAN
15	S-101	COFFERDAM ENLARGED PLAN - SHEET 1 OF 2
16	S-102	COFFERDAM ENLARGED PLAN - SHEET 2 OF 2
17	S-301	PIER SECTION
18	S-302	MOORING DOLPHIN DETAIL
19	S-303	UPLAND FILL SECTION
20	S-304	COFFERDAM DETAIL



LOCATION PLAN
SCALE: NTS

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Appr.
Date
Description
Mark

PERMIT DRAWINGS FOR PROSPECT PIER

TITLE SHEET

Rev. ----
Date: 2/25/2021
M&N Project No. 11120-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Designed by: MSM
Drwn by: MSM
Chd by: SBJ
Reviewed by: SBJ
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

MOFFATT & NICHOL
101 W. MAIN ST, SUITE 3000
NORFOLK, VA 23510

SALMONS, INC.
781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

SEAL

Sheet Reference No.
G-001
INDEX: 1 OF 20

File: Q:\WORK\11120\cadd_Active_Concept\11120-G-001 ; Plotted: 8/31/2021 5:28 PM by MIRANDA, MATHEUS ; Saved: 8/23/2021 5:45 PM by MMIRANDA

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

GENERAL NOTES

1. ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.

2. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK OF THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED.

4. DURING ALL PHASES OF THE WORK ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR AS REQUIRED TO PERMANENTLY PREVENT CONTAMINATED WATER, VEHICLE FLUIDS, CONSTRUCTION DEBRIS, AND ANY OTHER CONTAMINANT FROM ENTERING THE WATERWAY.

5. CONTRACTOR SHALL INSTALL A FLOATING BOOM SYSTEM THAT FULLY ENCLOSES THE WORK AREA. THIS BOOM SHALL BE ANCHORED IN PLACE OR ATTACHED TO A FIXED STRUCTURE. THIS BOOM SHALL BE CAPABLE OF COLLECTING ANY FLOATING DEBRIS GENERATED DURING CONSTRUCTION ACTIVITIES. DEBRIS SHALL BE COLLECTED AND DISPOSED OF FROM THIS BOOM ON A DAILY BASIS.

TURBIDITY CURTAIN:

1. A FLOATING TURBIDITY BARRIER MAY BE DEPLOYED AROUND AND/OR IMMEDIATELY ADJACENT TO ANY WORK AREA THAT IS EXPECTED TO PRODUCE DEBRIS AND/OR SEDIMENT IN 600 FOOT (MAX) LENGTHS. THE CONTRACTOR IS RESPONSIBLE FOR STAYING UNDER THE TURBIDITY LIMIT SET BY THE STATE. DURING ALL PHASES OF WORK, THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE METHODOLOGY AND SUBMIT TO THE STATE FOR APPROVAL.

2. TURBIDITY CURTAIN WILL BE AVAILABLE ON-SITE FOR USE AS WARRANTED BASED ON MONITORING OF TURBIDITY TO MAINTAIN COMPLIANCE WITH PERMIT CONDITIONS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL EROSION CONTROL NOTES

1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION "EROSION AND SEDIMENT CONTROL BMPS" , LATEST REVISION.

2. INSTALL ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL ALL PERMANENT VEGETATION IS ESTABLISHED.

3. MARK WORK LIMIT LINE(S) PRIOR TO STARTING WORK. DO NOT DISTURB VEGETATION OR TOPSOIL BEYOND THE PROPOSED LIMIT LINE. COORDINATE WITH THE ENGINEER FOR THE LOCATIONS FOR THE TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.

4. FINE GRADE AND IMMEDIATELY SEED ALL SIDE SLOPES, SHOULDER AREAS, AND DISTURBED VEGETATED AREAS. ALL GRADING TO BE A MAXIMUM SLOPE OF 2:1, COMPACTED, AND STABILIZED. SLOPES GREATER THAN 2:1 TO RECEIVE EROSION CONTROL BLANKET.

4. REMOVE ALL SEDIMENT TRACKED ON PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.

5. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM NECESSARY FOR CONSTRUCTION.

6. ALL CATCH BASINS SHALL BE PROTECTED WITH SILT SACKS, HAY BALE RINGS, OR SILT FENCE THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.

7. WHENEVER POSSIBLE, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL USE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.

9. MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

   A. COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODIBLE MATERIAL.

   B. ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.

   C. FREQUENT WATERING OF EXCAVATION AND FILL AREAS.

12. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

13. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

14. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.

15. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

16. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

17. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

18. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

INITIAL PHASE EROSION CONTROL NOTES

1. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER.

2. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE AT ALL TIMES.

3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

4. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

5. PRIOR TO ANY OTHER CONSTRUCTION, A CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

6. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

   A. THE CONSTRUCTION ENTRANCE, CONSISTING OF A MINIMUM PAD SIZE OF 12 FT BY 50 FT WITH A MINIMUM OF 6" THICK STONE. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS. (ROCK INSTALLATION TO COINCIDE WITH DEMOLITION)

   B. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL EROSION CONTROL PLAN.

   C. GEOTEXTILE SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA IF CONDITIONS WARRANT INSTALLATION OR SHOWN ON THE PLANS. THE GEOTEXTILE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL GUIDELINES. THE GEOTEXTILE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

8. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT RESIDENT ENGINEER. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT RESIDENT ENGINEER APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.

9. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CONSTRUCTION, CLEARING AND GRUBBING ACTIVITIES.

10. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE.

GRADING AND FINAL PHASE EROSION CONTROL NOTES

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

2. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

3. CUT AND FILL SLOPES ARE TO BE AS SHOWN ON PLAN BUT SHALL NOT EXCEED "2H:1V"

4. UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

GENERAL NOTES - SHEET 1 OF 2

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Designed by: MSM	Det by: MSM	Ckd by: SBJ	Reviewed by: SBJ
Date: 2/25/2021	M&N Project No. 11120-01	Drawing code:	Drawing Scale: Plot scale: 1:1 (D SHEET)
Rev: -----	Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL		

SEAL

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPC)

EROSION AND SEDIMENT CONTROLS

1. ALL PERIMETER GEOTEXTILE SILT FENCES AND CONSTRUCTION EXITS SHALL BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED IN AN AREA, THAT AREA SHALL BE STABILIZED WITHIN 14 DAYS.

OTHER CONTROLS

1. NO WASTE WILL BE DISPOSED OF INTO STORMWATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS

1. ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.
2. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

1. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.
2. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

1. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE SANITARY UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
2. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF THE SANITARY WASTES UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

OFFSITE VEHICLE TRACKING

1. A STABILIZED CONSTRUCTION ENTRANCE IS TO BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEET 4 FOR CONSTRUCTION ENTRANCE DETAILS. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

1. THE FOLLOWING MATERIALS ARE EXPECTED ON-SITE DURING CONSTRUCTION: CONCRETE PRODUCTS, ASPHALT, PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT, TAR, METAL REINFORCING, PAINTS/FINISHES, PAINT SOLVENTS, LUMBER, CRUSHED STONE, PLASTIC, METAL, AND CONCRETE PIPES.

SPILL PREVENTION

1. PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS AND SPILLS FROM DISCHARGING INTO STORMWATER RUNOFF.

GOOD HOUSEKEEPING

1. QUANTITIES OF PRODUCTS STORED ON-SITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.
2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
4. PRODUCTS MIXING, DISPOSAL AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

PRODUCT SPECIFIC PRACTICES

1. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTION AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
2. PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
3. CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE OWNER'S PROPERTY.
4. FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THAT MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP .
5. BUILDING MATERIALS/FORMWORK - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTS AS REQUIRED BY LOCAL, STAT, AND FEDERAL REGULATIONS.
5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
6. FOR SPILLS OF UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
7. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

INSPECTIONS

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT THE CONTRACTOR'S SITE, QUALIFIED PERSONNEL PROVIDED BY THE CONTRACTOR SHALL INSPECT: (A) ALL AREAS AT THE CONTRACTOR'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE CONTRACTOR'S SITE WHERE VEHICLES ENTER OF EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH TWENTY-FOUR HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL PROJECT COMPLETION.
2. QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER THE FOLLOWING: (A) DISTURBED AREAS OF THE CONTRACTOR'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE CONTRACTOR FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE CONTRACTOR'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
3. QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT AT LEAST ONCE PER MONTH UNTIL PROJECT COMPLETION THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
4. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
5. A REPORT SUMMARIZING THE SCOPE OF EACH INSPECTION AND THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

COFFERDAM IMPACT AREA		
COFFERDAM AREA (SF)	NUMBER OF COFFERDAMS	TOTAL IMPACT AREA (SF)
2,000	12	24,000

COFFERDAM CONNECTORS IMPACT AREA
COFFERDAM CONNECTOR AREA (SF)
1,700

FILL QUANTITY ESTIMATE		
LOCATION	FOOTPRINT (SF)	FILL VOLUME (CY)
UPLAND FILL	30,000	10,000
RIPRAP	800	350

PROJECT VERTICAL DATUM	
WINTERPORT, MAINE STATION ID 8414781	ELEVATONS (NAVD88)
100 YEAR BASE FLOOD	+14.0
HIGHEST ASTRONOMICAL	+9.06
MHHW	+6.73
MHW	+6.28
NAVD88	0.00
MLW	-5.48
MLLW	-5.83

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Mark | Description | Date | Appr
Rev. | REVNO

PERMIT DRAWINGS FOR PROSPECT PIER

GENERAL NOTES - SHEET 2 OF 2

Date: 2/25/2021
M&N Project No. 11120-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Designed by: MSM
Drawn by: MSM
Cad by: SBJ
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SEAL

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INDEX: 3 OF 20

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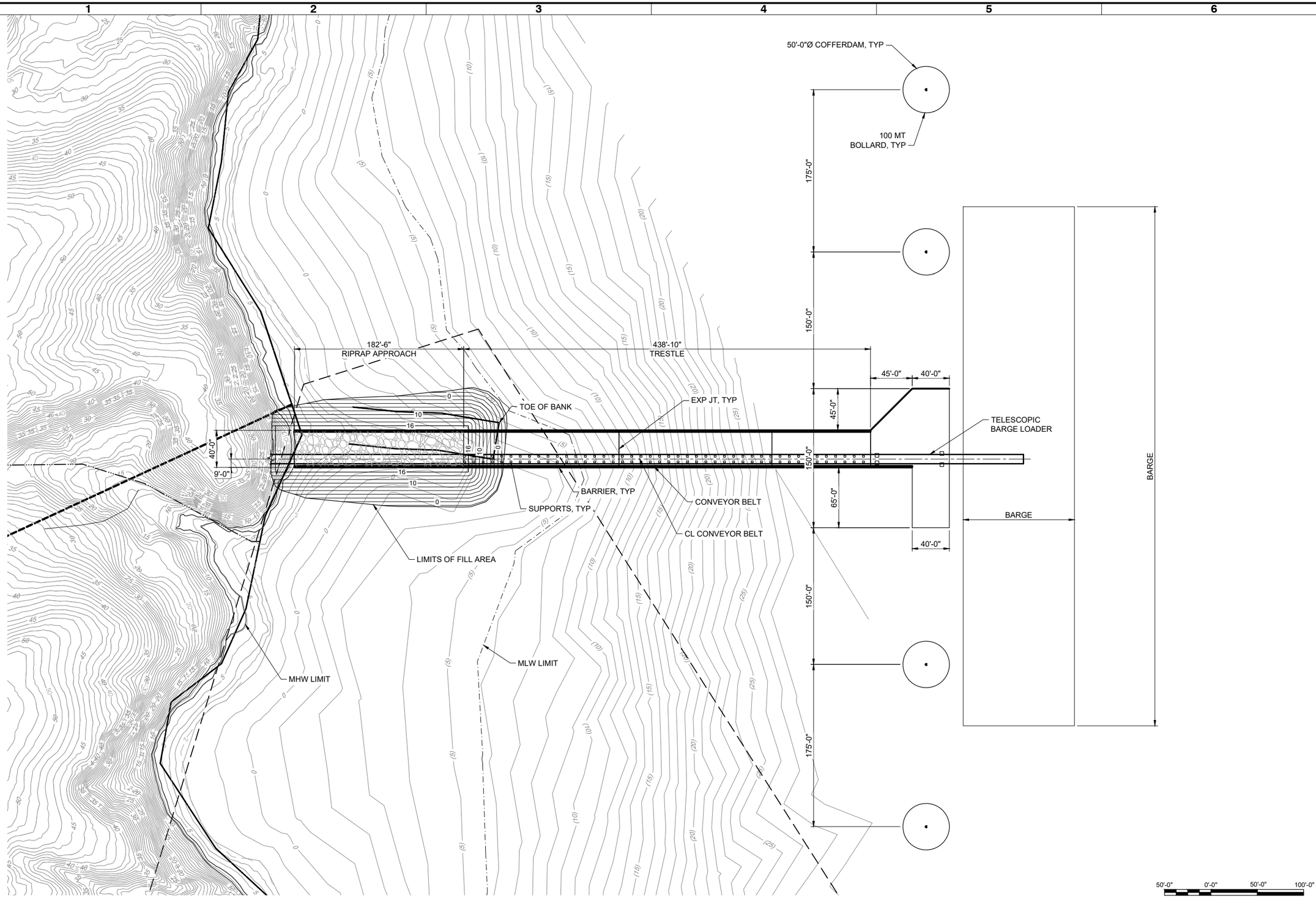
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



GENERAL ARRANGEMENT PLAN
SCALE: 1"=50'-0"

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark	Description	Date	Appd

PERMIT DRAWINGS FOR PROSPECT PIER

GENERAL ARRANGEMENT PLAN

Designed by:	MSM
Drawn by:	MSM
Cad by:	SBJ
Reviewed by:	SBJ
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2/25/2021
M&N Project No.	11120-01
Drawing scale:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Rev:	----

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SEAL

Sheet
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SEDIMENT FENCE (Sd1)

DEFINITION

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE SEDIMENT FENCE IS CONSTRUCTED OF STAKES AND SYNTHETIC FILTER FABRIC WITH A RIGID WIRE FENCE BACKING WHERE NECESSARY FOR SUPPORT. SEDIMENT FENCE CAN BE PURCHASED WITH POCKETS PRESEWN TO ACCEPT USE OF STEEL FENCE POSTS.

PURPOSE

A SEDIMENT FENCE INTERCEPTS AND DETAINS SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS AND REDUCES RUNOFF VELOCITY DOWN A SLOPE. SEDIMENT FENCES MAY ALSO BE USED TO CATCH WIND-BLOWN SAND AND TO CREATE AN ANCHOR FOR SAND DUNE CREATION.

DESIGN RECOMMENDATIONS

DEPTH OF IMPOUNDED WATER SHOULD NOT EXCEED 1.5 FEET AT ANY POINT ALONG THE FENCE.
DRAINAGE AREA LIMITED TO ¼ ACRE PER 100 FT OF FENCE, AND NO MORE THAN 1.5 ACRES IN TOTAL; OR IN COMBINATION WITH A SEDIMENT BASIN ON A LARGER SITE. AREA IS FURTHER RESTRICTED BY SLOPE STEEPNESS AS SHOWN IN THE FOLLOWING TABLE.

MAXIMUM SLOPE	
LAND SLOPE (%)	DISTANCE ABOVE FENCE (FEET)
2	250
5	180
10	100
20	50
30	30

MATERIALS AND USE

FILTER FABRIC
THE FILTER FABRIC USED IN A SEDIMENT FENCE MUST HAVE SUFFICIENT STRENGTH TO WITHSTAND VARIOUS STRESS CONDITIONS. IT ALSO MUST HAVE THE ABILITY TO ALLOW PASSAGE OF WATER WHILE RETAINING SOIL PARTICLES. FILTER FABRIC FOR A SEDIMENT FENCE IS AVAILABLE COMMERCIALLY.

SUPPORT POSTS
FOUR-INCH DIAMETER PINE, 1.33 LB./LINEAR FT. STEEL, OR SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES. STEEL POSTS SHOULD HAVE PROJECTIONS FOR FASTENING FABRIC. DRIVE POSTS SECURELY, AT LEAST 16 INCHES INTO THE GROUND, ON THE DOWNSLOPE SIDE OF THE TRENCH. SPACE POSTS A MAXIMUM OF 8 FEET IF FENCE IS SUPPORTED BY WIRE, 6 FEET IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING TO PLACE POSTS AT LOW POINTS ALONG THE FENCE LINE.

SUPPORT WIRE
WIRE FENCE (14 GAUGE WITH 6-INCH MESH) IS REQUIRED TO SUPPORT STANDARD STRENGTH FABRIC.

REINFORCED, STABILIZED OUTLETS
ANY OUTLET WHERE STORM FLOW BYPASS OCCURS MUST BE STABILIZED AGAINST EROSION. SET OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 1.5 FEET AT THE LOWEST POINT ALONG THE FENCE LINE.

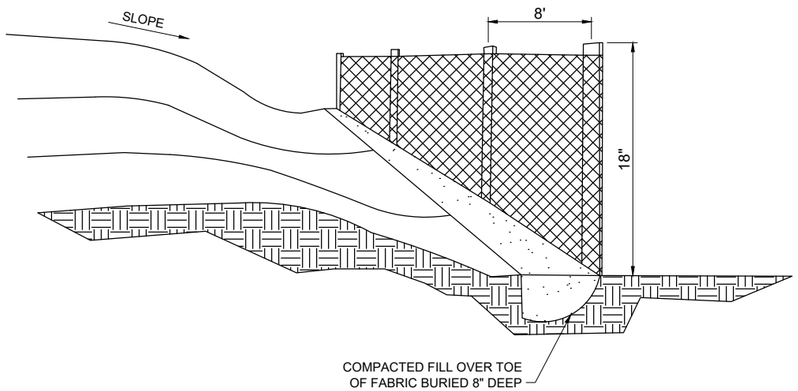
SET FABRIC HEIGHT AT 1 FOOT MAXIMUM BETWEEN SUPPORT POSTS SPACED NO MORE THAN 4 FEET APART. INSTALL A HORIZONTAL BRACE BETWEEN THE SUPPORT POSTS TO SERVE AS AN OVERFLOW WEIR AND TO SUPPORT TOP OF FABRIC. PROVIDE A RIPRAP SPLASH PAD A MINIMUM 5 FEET WIDE, 1 FOOT DEEP, AND 5 FEET LONG ON LEVEL GRADE. THE FINISHED SURFACE OF THE RIPRAP SHOULD BLEND WITH SURROUNDING AREA, ALLOWING NO OVERFALL. THE AREA AROUND THE PAD MUST BE STABLE.

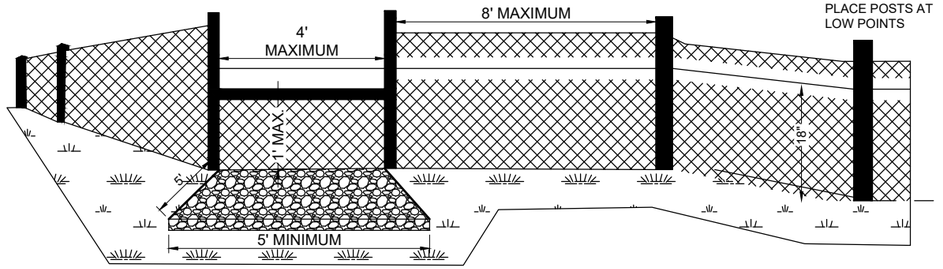
CONSTRUCTION RECOMMENDATIONS

DIG A TRENCH APPROXIMATELY 8 INCHES DEEP AND 4 INCHES WIDE, OR A V-TRENCH; ALONG THE LINE OF THE FENCE, UPSLOPE SIDE.
FASTEN SUPPORT WIRE FENCE SECURELY TO THE UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES. WIRE SHOULD EXTEND 6 INCHES INTO THE TRENCH.
ATTACH CONTINUOUS LENGTH OF FABRIC TO UPSLOPE SIDE OF FENCE POSTS. AVOID JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE. WHERE JOINTS ARE NECESSARY, FASTEN FABRIC SECURELY TO SUPPORT POSTS AND OVERLAP TO THE NEXT POST.
PLACE THE BOTTOM ONE FOOT OF FABRIC IN THE TRENCH. BACKFILL WITH COMPACTED EARTH OR GRAVEL.
FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
TO REDUCE MAINTENANCE, A SHALLOW SEDIMENT STORAGE AREA MAY BE EXCAVATED ON THE UPSLOPE SIDE OF FENCE WHERE SEDIMENTATION IS EXPECTED.
PROVIDE GOOD ACCESS TO DEPOSITION AREAS FOR CLEANOUT AND MAINTENANCE.
SEDIMENT FENCES SHOULD BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED. RETAINED SEDIMENT MUST BE REMOVED AND PROPERLY DISPOSED OF, OR MULCHED AND SEEDED.

MAINTENANCE

A SEDIMENT FENCE REQUIRES A GREAT DEAL OF MAINTENANCE. SILT FENCES SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR AS NECESSARY.
REMOVE SEDIMENT DEPOSITS PROMPTLY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON FENCE. TAKE CARE TO AVOID UNDERMINING FENCE DURING CLEANOUT.
IF THE FABRIC TEARS, DECOMPOSES, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE IT IMMEDIATELY.
REPLACE BURLAP USED IN SEDIMENT FENCES AFTER NO MORE THAN 60 DAYS.
REMOVE ALL FENCING MATERIALS AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. SEDIMENT DEPOSITS REMAINING AFTER THE FABRIC HAS BEEN REMOVED SHOULD BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.





CONSTRUCTION ENTRANCE (Co)

DEFINITION

A TEMPORARY
STONE-STABILIZED PAD
LOCATED AT POINTS OF
VEHICULAR INGRESS AND
EGRESS ON A CONSTRUCTION
SITE.

PURPOSE

TO PROVIDE A STABLE
ENTRANCE AND EXIT FROM A
CONSTRUCTION SITE AND KEEP
MUD AND SEDIMENT OFF PUBLIC
ROADS.

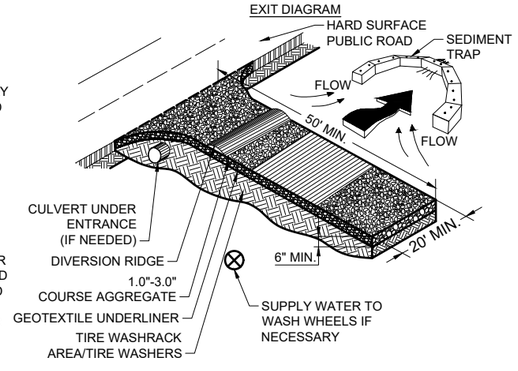
DESIGN RECOMMENDATIONS

REMOVE ALL VEGETATION AND
OTHER OBJECTIONABLE
MATERIAL FROM THE
FOUNDATION AREA. GRADE AND
CROWN FOUNDATION FOR
POSITIVE DRAINAGE.
STONE FOR A STABILIZED
CONSTRUCTION ENTRANCE
SHALL BE 1 TO 3-INCH STONE,
RECLAIMED STONE, OR
RECYCLED CONCRETE
EQUIVALENT PLACED ON A
STABLE FOUNDATION AS
SPECIFIED IN THE PLAN.
PAD DIMENSIONS: THE MINIMUM
LENGTH OF THE GRAVEL PAD
SHOULD BE 50 FEET, EXCEPT
FOR A SINGLE RESIDENTIAL LOT
WHERE A 30 FOOT MINIMUM
LENGTH MAY BE USED. LONGER
ENTRANCES WILL PROVIDE
BETTER CLEANING ACTION. THE
PAD SHOULD EXTEND THE FULL
WIDTH OF THE CONSTRUCTION
ACCESS ROAD OR 10 FEET
WHICHEVER IS GREATER. THE
AGGREGATE SHOULD BE
PLACED AT LEAST SIX INCHES
THICK.
A GEOTEXTILE FILTER FABRIC
SHALL BE PLACED BETWEEN
THE STONE FILL AND THE EARTH
SURFACE BELOW THE PAD TO
REDUCE THE MIGRATION OF
SOIL PARTICLES FROM THE
UNDERLYING SOIL INTO THE
STONE AND VICE VERSA. FILTER
CLOTH IS NOT REQUIRED FOR A
SINGLE FAMILY RESIDENCE LOT.
IF THE SLOPE TOWARD THE
ROAD EXCEEDS 2%,
CONSTRUCT A RIDGE, 6 TO 8
INCHES HIGH WITH 3:1 SIDE
SLOPES, ACROSS THE
FOUNDATION APPROXIMATELY
15 FT FROM THE ENTRANCE TO
DIVERT RUNOFF AWAY FROM
THE PUBLIC ROAD.
ALL SURFACE WATER THAT IS
FLOWING TO OR DIVERTED
TOWARD THE CONSTRUCTION
ENTRANCE SHOULD BE PIPED
BENEATH THE ENTRANCE. IF
PIPING IS IMPRACTICAL, A BERM
WITH 5:1 SLOPES THAT CAN BE
CROSSED BY VEHICLES MAY BE
SUBSTITUTED FOR THE PIPE.
WASHING: IF THE SITE
CONDITIONS ARE SUCH THAT
THE MAJORITY OF MUD IS NOT
REMOVED FROM THE VEHICLE
TIRES BY THE GRAVEL PAD,
THEN THE TIRES SHOULD BE
WASHED BEFORE THE VEHICLE
ENTERS THE ROAD OR STREET.
THE WASH AREA SHOULD BE A
LEVEL AREA WITH 3-INCH
WASHED STONE MINIMUM, OR A
COMMERCIAL RACK.
WASH WATER SHOULD BE
DIRECTED INTO A SEDIMENT
TRAP, A VEGETATED FILTER
STRIP, OR OTHER APPROVED
SEDIMENT TRAPPING DEVICE.
SEDIMENT SHOULD BE
PREVENTED FROM ENTERING
ANY WATERCOURSES.
A FILTER FABRIC FENCE
SHOULD BE INSTALLED
DOWN-GRADIENT FROM THE
CONSTRUCTION ENTRANCE IN
ORDER TO CONTAIN ANY
SEDIMENT-LADEN RUNOFF
FROM THE ENTRANCE.

MAINTENANCE

THE ENTRANCE SHOULD BE
MAINTAINED IN A CONDITION
THAT WILL PREVENT TRACKING
OR FLOWING OF SEDIMENT
ONTO PUBLIC RIGHTS-OF-WAY.
THIS MAY REQUIRE PERIODIC
TOPDRESSING WITH
ADDITIONAL STONE.
INSPECT ENTRANCE/EXIT PAD
AND SEDIMENT DISPOSAL AREA
WEEKLY AND AFTER HEAVY
RAINS OR HEAVY USE.
REMOVE MUD AND SEDIMENT
TRACKED OR WASHED ONTO
PUBLIC ROAD IMMEDIATELY.
MUD AND SOIL PARTICLES WILL
EVENTUALLY CLOG THE VOIDS
IN THE GRAVEL AND THE
EFFECTIVENESS OF THE
GRAVEL PAD WILL NOT BE
SATISFACTORY. WHEN THIS
OCCURS, THE PAD SHOULD BE
TOP-DRESSED WITH NEW
STONE. COMPLETE
REPLACEMENT OF THE PAD MAY
BE NECESSARY WHEN THE PAD
BECOMES COMPLETELY
CLOGGED.
IF WASHING FACILITIES ARE
USED, THE SEDIMENT TRAPS
SHOULD BE CLEANED OUT AS
OFTEN AS NECESSARY TO
ASSURE THAT ADEQUATE
TRAPPING EFFICIENCY AND
STORAGE VOLUME IS
AVAILABLE. VEGETATIVE FILTER
STRIPS SHOULD BE MAINTAINED
TO INSURE A VIGOROUS STAND
OF VEGETATION AT ALL TIMES.
RESHAPE PAD AS NEEDED FOR
DRAINAGE AND RUNOFF
CONTROL.
REPAIR ANY BROKEN ROAD
PAVEMENT IMMEDIATELY.
ALL TEMPORARY EROSION AND
SEDIMENT CONTROL MEASURES
SHALL BE REMOVED WITHIN 30
DAYS AFTER FINAL SITE
STABILIZATION IS ACHIEVED OR
AFTER THE TEMPORARY
PRACTICES ARE NO LONGER
NEEDED. TRAPPED SEDIMENT
SHALL BE REMOVED OR
STABILIZED ON SITE. DISTURBED
SOIL AREAS RESULTING FROM
REMOVAL SHALL BE
PERMANENTLY STABILIZED.

CRUSHED STONE CONSTRUCTION EXIT



DUST CONTROL ON DISTURBED AREAS (Du)

DEFINITION

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE

TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES.

TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES THAT MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHOD AND MATERIALS

VEGETATIVE COVER. SEE SPECIFICATION DS2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

TILLAGE
THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE THAT SHOULD BE USED BEFORE WIND EROSION STARTS. BEGIN PLOWING ON WINDWARD SIDE OF CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.

IRRIGATION
THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

BARRIERS
SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE
APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT VEGETATION
SEE SPECIFICATION DS3-DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

PERMIT DRAWINGS
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PERMIT DRAWINGS FOR PROSPECT PIER

EROSION & SEDIMENT CONTROL NOTES - SHEET 1 OF 3

Designed by: MSM
Drawn by: MSM
Checked by: SBJ
Reviewed by: SBJ
M&N Project No. 11120-01
Drawing code:
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (D SHEET)

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INDEX: 5 OF 20

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

RIPRAP (St)

DEFINITION

A PERMANENT, EROSION-RESISTANT GROUND COVER OF LARGE, LOOSE, ANGULAR STONE.

PURPOSE

TO PROTECT SLOPES, STREAMBANKS, CHANNELS, OR AREAS SUBJECT TO EROSION BY WAVE ACTION.

ROCK RIPRAP PROTECTS SOIL FROM EROSION DUE TO CONCENTRATED RUNOFF. IT IS USED TO STABILIZE SLOPES THAT ARE UNSTABLE DUE TO SEEPAGE. IT IS ALSO USED TO SLOW THE VELOCITY OF CONCENTRATED RUNOFF WHICH IN TURN INCREASES THE POTENTIAL FOR INFILTRATION.

CONSTRUCTION RECOMMENDATIONS

SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC OR RIPRAP SHOULD BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, VEGETATION, AND DEBRIS AND PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.

EXCAVATE DEEP ENOUGH FOR BOTH FILTER AND RIPRAP. COMPACT ANY FILL MATERIAL TO THE DENSITY OF SURROUNDING UNDISTURBED SOIL.

EXCAVATE A KEYWAY IN STABLE MATERIAL AT BASE OF SLOPE TO REINFORCE THE TOE. KEYWAY DEPTH SHOULD BE 1.5 TIMES THE DESIGN THICKNESS OF RIPRAP AND SHOULD "EXTEND A HORIZONTAL DISTANCE EQUAL TO THE DESIGN THICKNESS.

ROCK AND/OR GRAVEL USED FOR FILTER AND RIPRAP SHALL CONFORM TO THE SPECIFIED GRADATION. VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

FILTER

INSTALL SYNTHETIC FILTER FABRIC OR A SAND/GRAVEL FILTER ON SUBGRADE.

SYNTHETIC FILTER FABRIC

PLACE FILTER FABRIC ON A SMOOTH FOUNDATION. OVERLAP EDGES AT LEAST 12 INCHES, WITH ANCHOR PINS SPACED EVERY 3 FT ALONG OVERLAP. FOR LARGE STONES, A 4-INCH LAYER OF SAND MAY BE NEEDED TO PROTECT FILTERCLOTH.

GEOTEXTILE FABRICS SHOULD BE PROTECTED FROM PUNCTURE OR TEARING DURING PLACEMENT OF THE ROCK RIPRAP BY PLACING A CUSHION OF SAND AND GRAVEL OVER THE FABRIC. DAMAGED AREAS IN THE FABRIC SHOULD BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHOULD BE A MINIMUM OF 12 INCHES.

SAND/GRAVEL FILTER

SPREAD WELL-GRADED AGGREGATE IN A UNIFORM LAYER TO THE REQUIRED THICKNESS (6 INCHES MINIMUM). IF TWO OR MORE LAYERS ARE SPECIFIED, PLACE THE LAYER OF SMALLER STONES FIRST AND AVOID MIXING THE LAYERS.

STONE PLACEMENT

PLACE RIPRAP IMMEDIATELY AFTER INSTALLING FILTER.

INSTALL RIPRAP TO FULL THICKNESS IN ONE OPERATION. DO NOT DUMP THROUGH CHUTES OR USE ANY METHOD THAT CAUSES SEGREGATION OF STONE SIZES. AVOID DISLODGING OR DAMAGING UNDERLYING FILTER MATERIAL WHEN PLACING STONE.

IF FABRIC IS DAMAGED, REMOVE RIPRAP AND REPAIR FABRIC BY ADDING ANOTHER LAYER, OVERLAPPING THE DAMAGED AREA BY 12 INCHES.

PLACE SMALLER STONES IN VOIDS TO FORM A DENSE, UNIFORM, WELL-GRADED MASS SELECTIVE LOADING AT THE QUARRY AND SOME HAND PLACEMENT MAY BE NECESSARY TO OBTAIN AN EVEN DISTRIBUTION OF STONE SIZES.

BLEND THE STONE SURFACE SMOOTHLY WITH THE SURROUNDING AREA ALLOWING NO PROTRUSIONS OR OVERFALL.

SINCE RIPRAP IS USED WHERE EROSION POTENTIAL IS HIGH, CONSTRUCTION MUST BE SEQUENCED SO THAT THE RIPRAP IS PUT IN PLACE WITH THE MINIMUM POSSIBLE DELAY. DISTURBANCE OF AREAS WHERE RIPRAP IS TO BE PLACED SHOULD BE UNDERTAKEN ONLY WHEN FINAL PREPARATION AND PLACEMENT OFTHE RIPRAP CAN FOLLOW IMMEDIATELY BEHIND THE INITIAL DISTURBANCE.

WHERE RIPRAP IS USED FOR OUTLET PROTECTION, THE RIPRAP SHOULD BE PLACED BEFORE OR IN CONJUNCTION WITH THE CONSTRUCTION OF THE PIPE OR CHANNEL

MAINTENANCE

RIPRAP SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM FOR DISPLACED STONES, SLUMPING, AND EROSION AT EDGES, ESPECIALLY DOWNSTREAM OR DOWNSLOPE. IF THE RIPRAP HAS BEEN DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY BEFORE FURTHER DAMAGE CAN TAKE PLACE.

WOODY VEGETATION SHOULD BE REMOVED FROM THE ROCK RIPRAP ANNUALLY BECAUSE TREE ROOTS WILL EVENTUALLY DISLODGE THE RIPRAP.

IF THE RIPRAP IS ON A CHANNEL BANK, THE STREAM SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT BARS THAT MAY CHANGE FLOW PATTERNS WHICH COULD DAMAGE OR DISPLACE THE RIPRAP.

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

EROSION & SEDIMENT CONTROL NOTES - SHEET 2 OF 3

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M&N Project No. 11120-01
Designed by: MSM
Drawn by: MSM
Cad by: SBJ
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Reviewed by: SBJ
Drawing Scale:
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Plot scale: 1:1 (D SHEET)

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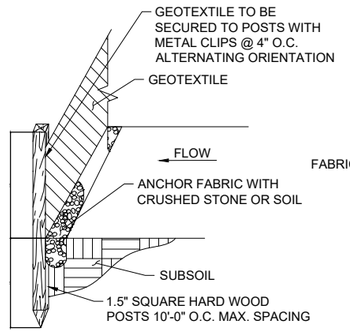
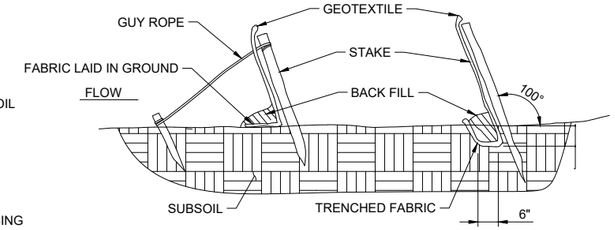
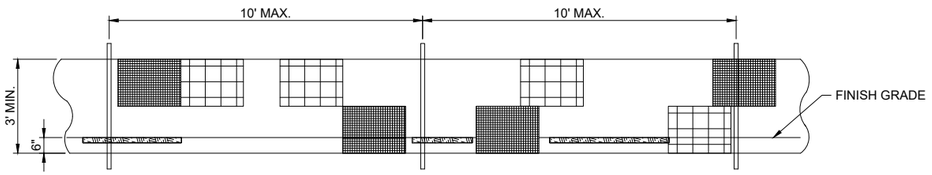
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



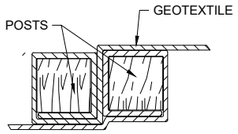
SILT FENCE



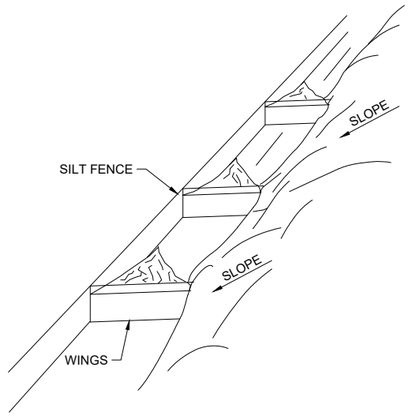
BACK FILL OR TRENCH FABRIC TOE



ELEVATION VIEW



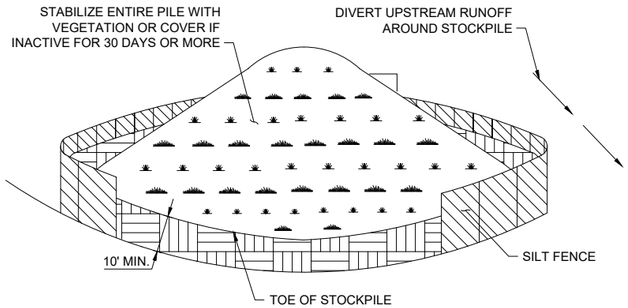
FENCE JOINT PLAN VIEW



SILT FENCE SYSTEM PLACEMENT ON TOE OF SLOPE

GEOTEXTILE SILT FENCE NOTES:

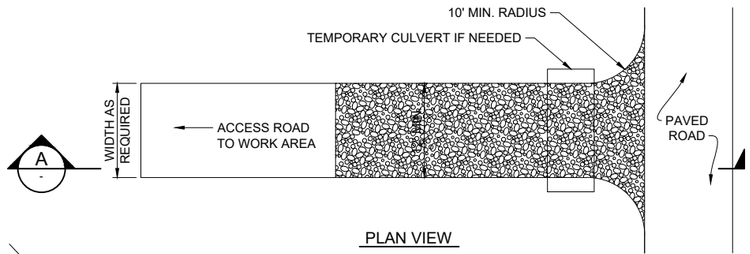
1. GEOTEXTILE FENCE SHOULD BE PLACED SO THE FENCE LEANS TOWARD THE SOURCE OF SEDIMENT.
2. MAXIMUM SPACING FOR WOODEN STAKES OR STEEL POSTS IS 10'-0".
3. WOOD STAKES SHALL HAVE A MINIMUM CROSS-SECTION SIZE OF 1.5"x1.5" AND A MINIMUM LENGTH OF 3'-6". SILT FENCE SUBJECT TO HEAVY LOADS SHALL BE REINFORCED WITH STEEL POSTS AT LEAST 0.5 LB. PER FOOT WITH A MINIMUM LENGTH OF 4 FT.
4. WOODEN STAKES OR STEEL POSTS SHALL BE DRIVEN TO A MINIMUM OF 12" INTO THE GROUND.
5. 6" OF GEOTEXTILE SHALL BE BURIED BY BACK FILLING OR TRENCHING AND AT LEAST 30" IN HEIGHT OF GEOTEXTILE SHALL BE EXPOSED.
6. FABRIC SHALL BE JOINED ONLY AT A SUPPORT POST WITH A MINIMUM OF 6" OVERLAP AND SECURELY SEALED.
7. UPON REESTABLISHMENT OF GROUND COVER IN DISTURBED AREAS AND WHEN DIRECTED BE YHE ENGINEER OR UPON FINAL INSPECTION, FENCE AND ANY SEDIMENT SHALL BE REMOVED. AT NO TIME WILL THE FENCE REMAIN IN PLACE AFTER PROJECT COMPLETION.
8. GEOTEXTILE FENCE SHALL NOT BE USED IN A WATER COURSE.
9. ONLY GEOTEXTILE FROM THE DEPARTMENTS APPROVED PRODUCT LIST SHALL BE USED.
10. BACK FILLING OF GEOTEXTILE SHALL ONLY BE USED WHEN GROUND IS FROZEN OR WHERE OTHER OBSTRUCTIONS ARE ENCOUNTERED THAT PROHIBIT TRENCHING; E.G., STUMPS OR ROCKS.
11. CLEAN OUT ACCUMULATED SEDIMENT WHEN ONE-HALF OF THE ORIGINAL HEIGHT OF THE GE3OTEZTILE FENCE BECOMES FILLED WITH SEDIMENT OR AS DIRECTED BY THE ENGINEER.
12. POSITION POSTS TO OVERLAP MAKING CERTAIN THAT FABRIC FOLDS AROUND EACH POST ONE FULL TURN.
13. DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OF BUILT-UP SEDIMENT AT JOINTS.
14. WHEN USING SILT FENCE ALONG TOE OF SLOPE, ADD WINGS TO PREVENT SEDIMENT FROM MOVING ALONG THE FENCE AND OFF THE SITE.



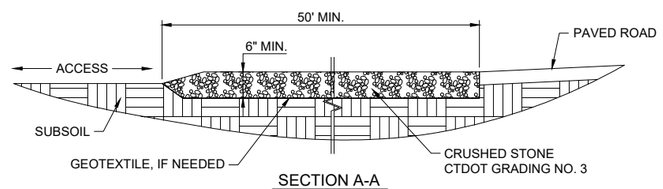
TEMPORARY SOIL STOCKPILING NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED WITH POLYETHYLENE SHEETING AND SANDBAGS.
4. A POLYETHYLENE MEMBRANE UNDERLAYMENT MAY BE REQUIRED PER ENGINEER REQUESTS.

TEMPORARY SOIL STOCKPILING



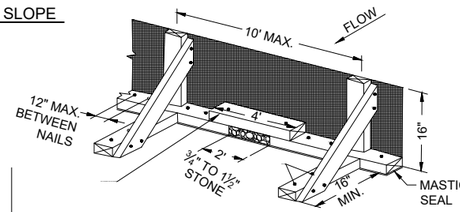
PLAN VIEW



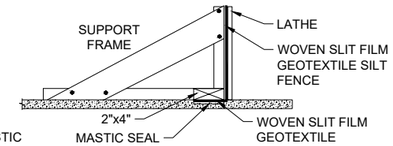
SECTION A-A

CONSTRUCTION ENTRANCE NOTES:

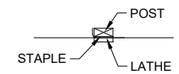
1. TOPSOIL AND ORGANICS SHOULD BE REMOVED PRIOR TO INSTALLATION.
2. CONSTRUCTION ENTRANCE TO BE LOCATED WHERE ACCESS ROAD MEETS PAVED ACCESS/DRIVEWAY.
3. AFTER CONSTRUCTION, ANY DEBRIS SHOULD BE CLEARED FROM THE TRACKING PAD, THE PAD RE-LEVELED AND 2'-4" OF 3/4" CRUSHED GRAVEL SHOULD BE ADDED TO FILL VOIDS AND CREATE A SMOOTH SURFACE WITH A 2% CROWN OR CROSS-SLOPE.



ISOMETRIC VIEW



SECTION A-A



JOINING ADJACENT SECTIONS OF GEOTEXTILE

SILT FENCE ON PAVEMENT

CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SLIT FILM GEOTEXTILE, SUCH AS POLYPROPYLENE, NYLON, POLYESTER, ETHYLENE, OR APPROVED SIMILAR MATERIAL.
3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

PERMIT DRAWINGS
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Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

EROSION & SEDIMENT CONTROL NOTES - SHEET 3 OF 3

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Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Plot scale: 1:1 (0 SHEET)

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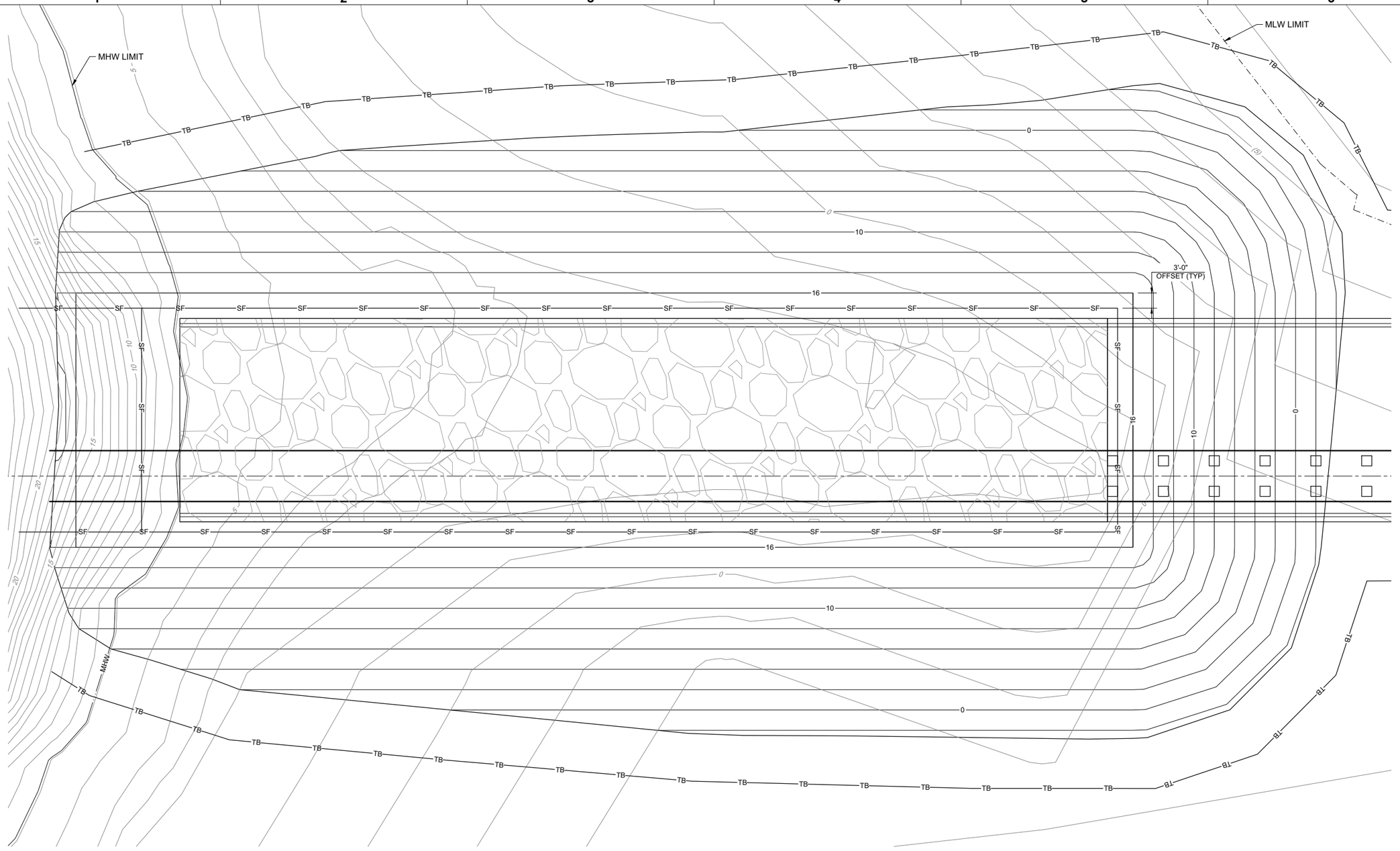

EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"=10'-0"

10'-0" 0'-0" 10'-0" 20'-0"
SCALE: 1"=10'

PERMIT DRAWINGS
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Mark	Description	Date	Appr.

PERMIT DRAWINGS FOR PROSPECT PIER

EROSION & SEDIMENT CONTROL PLAN

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Checked by: SBJ
Reviewed by: SBJ
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
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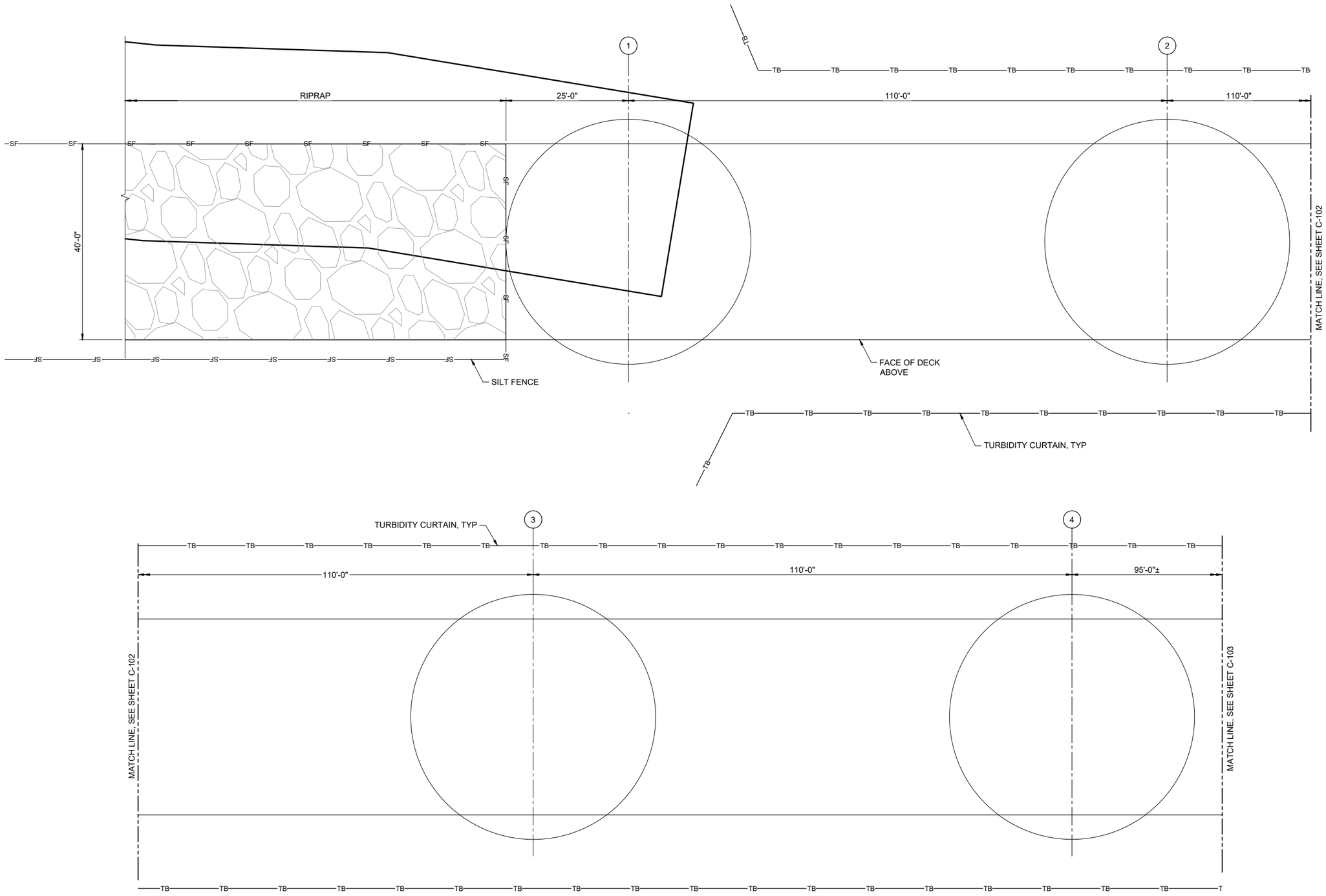

E&S ENLARGED PLAN - 1 OF 3

SCALE: 1"=10'-0"

10'-0" 0'-0" 10'-0" 20'-0"

SCALE: 1"=10'

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PERMIT DRAWINGS FOR PROSPECT PIER

E&S ENLARGED 1 OF 3

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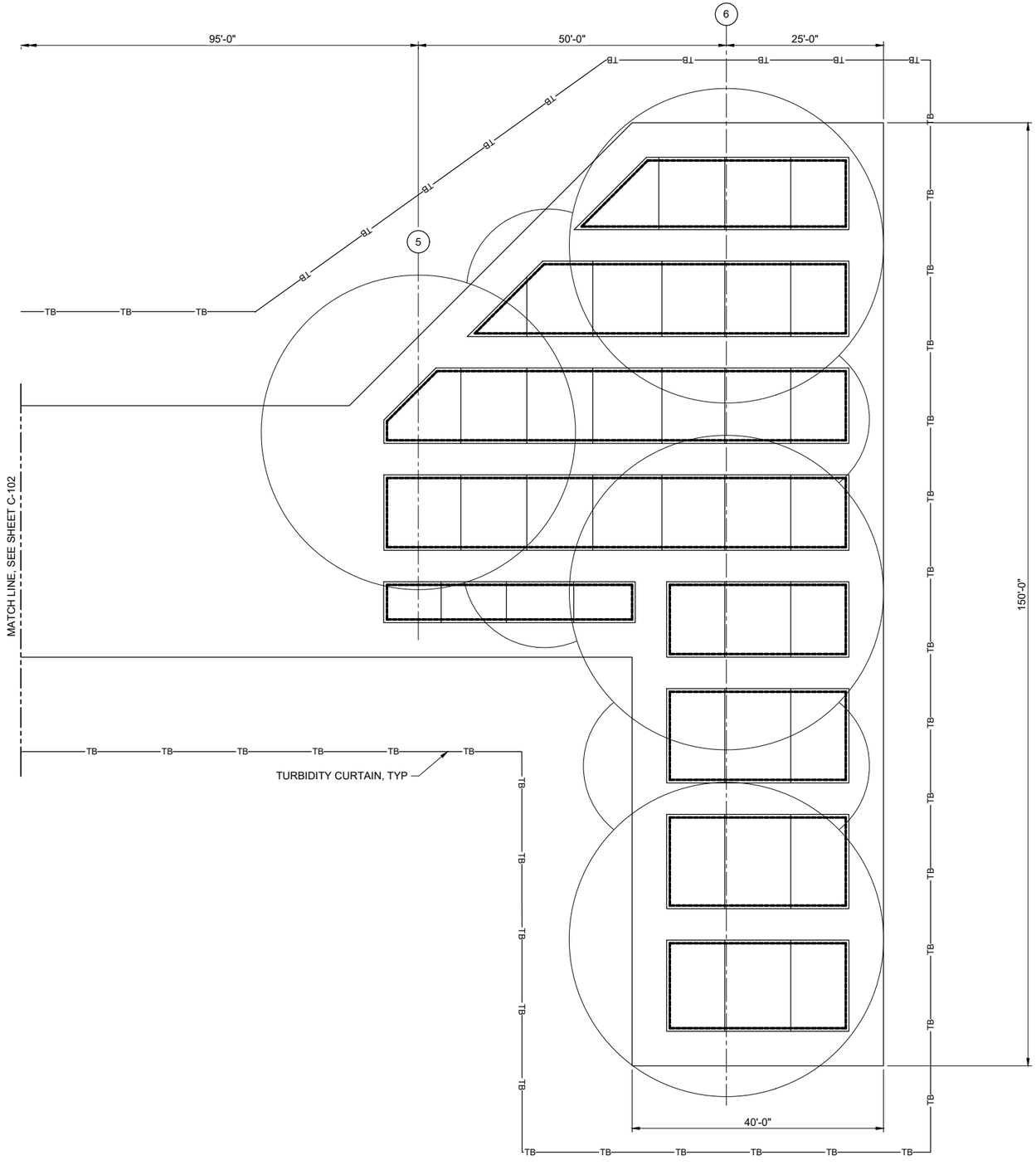
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



E&S ENLARGED PLAN
SCALE: 1"=10'-0"

10'-0" 0'-0" 10'-0" 20'-0"
SCALE: 1"=10'

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

PERMIT DRAWINGS FOR PROSPECT PIER

E&S ENLARGED 2 OF 3

Mark	Description	Date	Appr.

Rev.	Date:	M&N Project No.	Drawing scale:	Drawing Scale:
REVNO	2/25/2021	11120-01		Plot scale: 1:1 (D SHEET)

Designed by:	Dwn by:	Chd by:	Reviewed by:	Submitted by:
MSM	MSM	SBJ	SBJ	SUBMITTERS NAME MOFFATT & NICHOL

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101 W. MAIN ST. SUITE 3000
NORFOLK, VA 23510
moffatt & nichol

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781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

SEAL

Sheet Reference No.
C-103
INDEX: 10 OF 20

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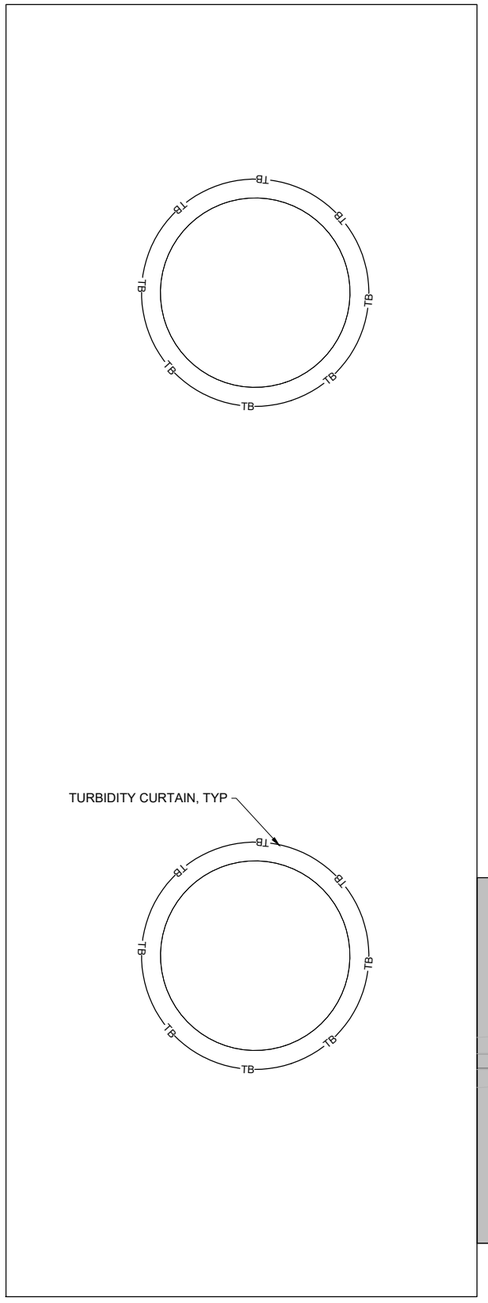
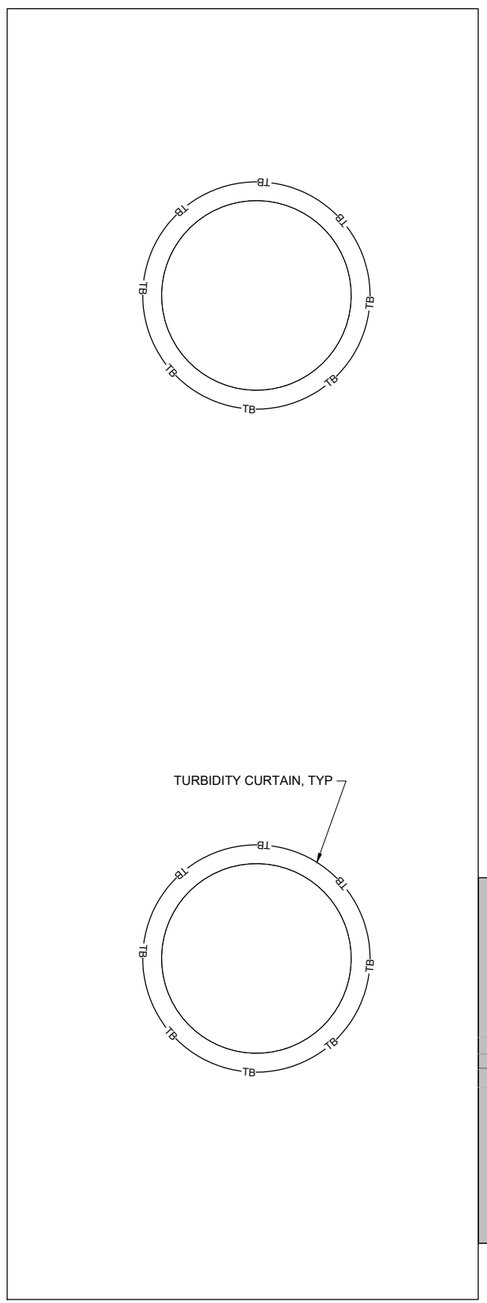
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



LOCATION MAP

E&S ENLARGED PLAN - MOORING CELLS NW

SCALE: 1"=20'-0"



LOCATION MAP

E&S ENLARGED PLAN - MOORING CELLS SW

SCALE: 1"=20'-0"

20'-0" 0'-0" 20'-0" 40'-0"

SCALE: 1"=20'

PERMIT DRAWINGS
ISSUED: 2021-04-20
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Mark	Description	Date	Appr.

PERMIT DRAWINGS FOR PROSPECT PIER

E&S ENLARGED 3 OF 3

Rev.	REVNO
Date:	2/25/2021
M&N Project No.	11120-01
Drawing code:	
Drawing Scale:	Plot scale: 1:1 (D SHEET)
Designed by:	MSM
Drawn by:	MSM
Cad by:	SBJ
Reviewed by:	SBJ
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL

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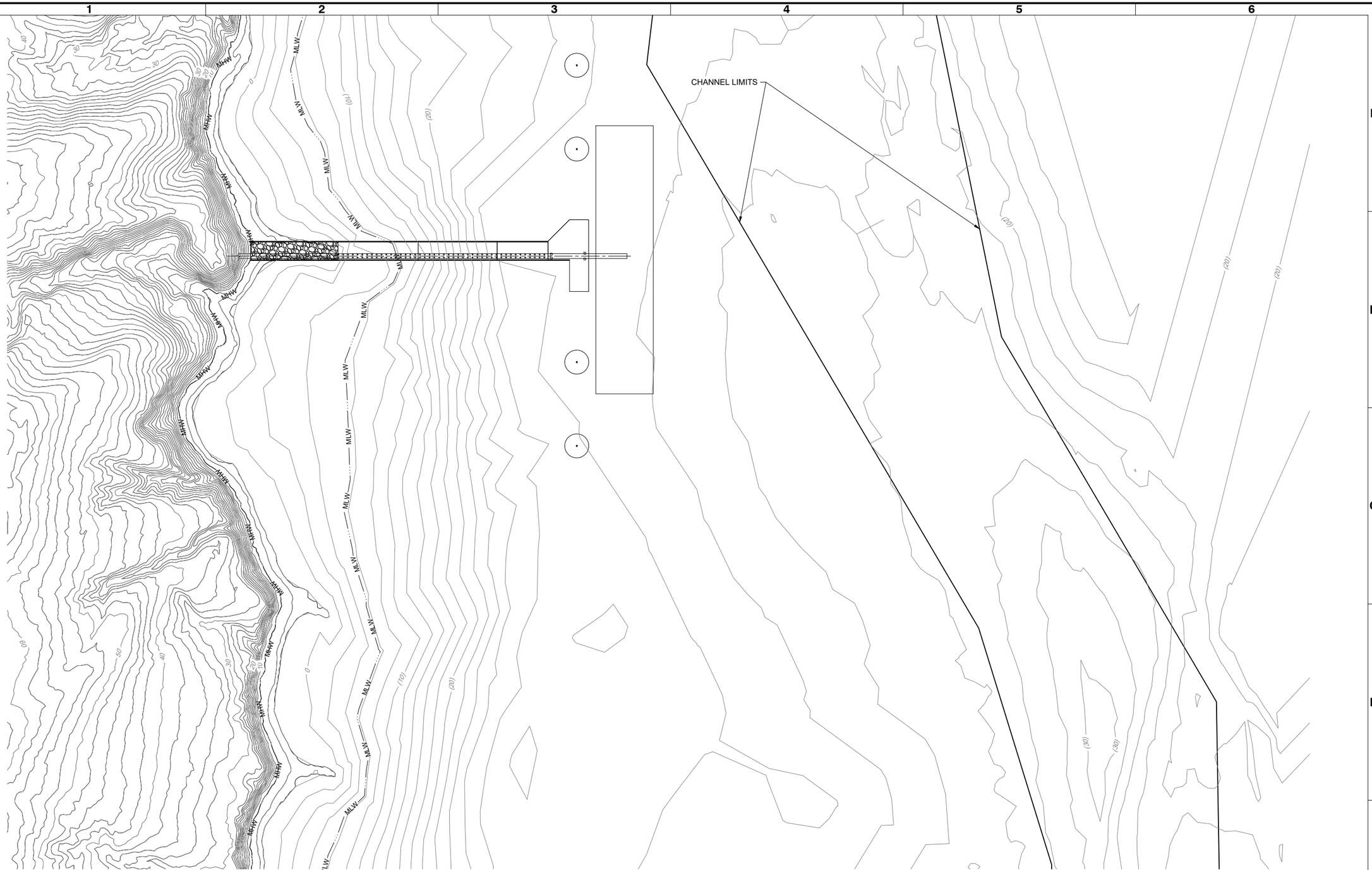
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



EXISTING TOPO AND HYDRO
SCALE: 1"=100'-0"

100'-0" 0'-0" 100'-0" 200'-0"
SCALE: 1"=100'

PERMIT DRAWINGS
ISSUED: 2021-04-20
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Mark	Description	Date	Appd

PERMIT DRAWINGS FOR PROSPECT PIER

EXISTING TOPO AND HYDRO

Date: 2/25/2021 | Rev: -----
Designed by: MSM | Dwn by: MSM | Ckd by: SBJ | Reviewed by: SBJ
M&N Project No. 11120-01
Drawing code:
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

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Sheet Reference No.
CS-101
INDEX: 12 OF 20

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS SHOWN ON CONTRACT DRAWINGS.
2. FOR NOTES PERTAINING TO INDIVIDUAL STRUCTURES, SEE DRAWINGS FOR THOSE STRUCTURES.
3. COORDINATE ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, WITH THE OWNER'S ACTIVITIES.
4. FOR SPECIAL INSPECTION REQUIREMENTS, SEE SPECIFICATION SECTION 01 45 35 'SPECIAL INSPECTIONS'.

CODES AND STANDARDS:

1. AASHTO, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2014
2. ACI 318, AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, 2014 EDITION
3. ACI 301, AMERICAN CONCRETE INSTITUTE, SPECIFICATIONS FOR STRUCTURAL CONCRETE, 2016 EDITION
4. ACI 224R-01, AMERICAN CONCRETE INSTITUTE, CONTROL OF CRACKING IN CONCRETE STRUCTURES
5. AISC 341, AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, 2010 EDITION
6. AISC 360, AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 2010 EDITION
7. ASCE 7, AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2016 EDITION
8. ASCE 61, AMERICAN SOCIETY OF CIVIL ENGINEERS, SEISMIC DESIGN OF PIERS AND WHARVES, 2014 EDITION
9. ASCE, AMERICAN SOCIETY OF CIVIL ENGINEERS, WATERFRONT FACILITIES INSPECTION AND ASSESSMENT, 2015
10. AWS D1.1, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - STEEL, 2018 EDITION
11. AWS D1.4, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - REINFORCING STEEL, 2018 EDITION
12. IBS, INTERNATIONAL CODE COUNCIL, INTERNATIONAL BUILDING CODE, 2018 EDITION
13. MAINE DEPARTMENT OF PUBLIC SAFETY, MAINE UNIFORM BUILDING AND ENERGY CODE, 2018
14. MAINEDOT, MAINE DEPARTMENT OF TRANSPORTATION, CONSTRUCTION MANUAL, 2003
15. MAINEDOT, MAINE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, 2020
16. MAINE EMERGENCY MANAGEMENT AGENCY, MAINE STATE HAZARD MITIGATION PLAN, 2019
17. PIANC WG 33, PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONGRESSES, GUIDELINES FOR THE DESIGN OF FENDERS SYSTEMS, 2002
18. PIANC WG 34, PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONGRESSES, SEISMIC DESIGN GUIDELINES FOR PORT STRUCTURES, 2001
19. UFC 4-152-01, UNIFIED FACILITIES CRITERIA, PIER AND WHARVES, 2017

DESIGN LOADS:

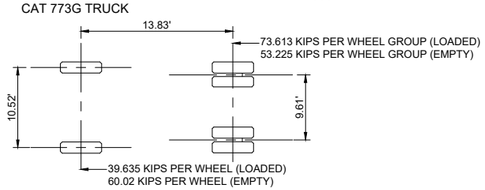
1. DEAD LOADS

DEAD LOADS INCLUDE SELF WEIGHT OF STRUCTURE, WEIGHT OF SUPPORTED EQUIPMENT, AND VERTICAL OR LATERAL EARTH PRESSURE

A. REINFORCED CONCRETE..... 150 PCF
B. PLAIN CONCRETE..... 144 PCF
C. STEEL..... 490 PCF

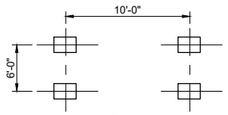
2. LIVE LOADS

A. UNIFORM..... 100 PSF
B. STOCKPILE..... 800 PSF
C. CAT 773G TRUCK



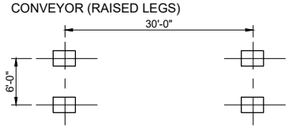
PLAN

D. CONVEYOR (SHORT LEGS)



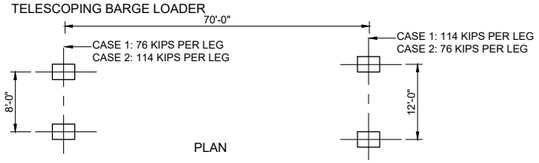
PLAN
650 PLF PER EACH 10'-0" LONG SECTION

E. CONVEYOR (RAISED LEGS)



PLAN
850 PLF PER EACH 30'-0" LONG SECTION

F. TELESCOPING BARGE LOADER



PLAN

G. WIND
DESIGN WIND SPEED = 115 MPH (3 SECOND GUST AT 33 FT ABOVE GROUND)
WIND SPEED DURING ICE CONDITIONS = 50 MPH (3 SEC GUST AT 33 FT ABOVE GROUND)
OPERATING WIND SPEED DURING BERTHING = 40 MPH (3 SEC GUST)

H. SEISMIC
S_S = 0.289g I = 1.0
S_1 = 0.074g SITE CLASS E
PGA = 0.173g

3. LIVE LOAD IMPACT FACTORS

CAT 773G TRUCK - 33%

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT ACI 301, UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT, UNLESS OTHERWISE NOTED.
3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315.
4. ALL GROUT IS TO BE NON-METALLIC AND NONSHRINK (UON).
5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4", 45° CHAMFERS UNLESS OTHERWISE NOTED.
6. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" UON.
7. ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL BE KEYED. ROUGHEN SURFACES OF HORIZONTAL CONSTRUCTION JOINTS TO 1/4" AMPLITUDE.
8. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

A. CONCRETE STRENGTH 28 DAY
1. CAST-IN-PLACE.....4,000 PSI
2. GROUT.....8,000 PSI
3. PRECAST.....4,000 PSI

B. REINFORCING STEEL
1. ALL MILD STEEL REINFORCING STEEL FOR CAST-IN-PLACE AND PRECAST CONCRETE SHALL CONFORM TO ASTM A706 GRADE 60 AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. GALVANIZING REINFORCING STEEL SHALL COMPLY WITH ASTM A767/A767M, CLASS 1 COATING.
3. ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, IN ACCORDANCE WITH ACI 318

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF CURRENT AWS D1.1
3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. MISC PLATES, BARS, AND SHAPES.....ASTM A36
   B. BOLTS.....ASTM A307
   C. ANCHOR BOLTS/RODS.....ASTM F1554, GRADE 105
   D. HSS MEMBERS.....ASTM A500, GRADE B
   E. H-PILE.....ASTM A572, GRADE 50
4. ALL CARBON STEEL SHAPES, PLATES, FASTENERS AND ALL OTHER STEEL HARDWARE SHALL BE HOT DIP GALVANIZED AFTER ASSEMBLY, UNLESS OTHERWISE NOTED.
5. ALL WELDING ASSEMBLIES SHALL BE SHOP FABRICATED.
6. ALL STEEL SHAPES, AND OTHER FABRICATIONS SHALL BE GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR A153 AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED.
7. FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS, OR APPROVED EQUAL, CONFORMING TO THE REQUIREMENTS OF ASTM A780. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAIN AFTER INSTALLATION OF THE NUT.
8. ALL BOLTED CONNECTIONS SHALL HAVE HEAVY HEX NUTS AND WASHERS UNLESS OTHERWISE NOTED.

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

STRUCTURAL NOTES

Designed by: IM
Drawn by: MSM
Ckd by: BA
Reviewed by: SBJ
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2/25/2021
M&N Project No. 11120-01
Drawing code:
Drawing Scale:
Rev: ----
Plot scale: 1:1 (D SHEET)

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Sheet Reference No.
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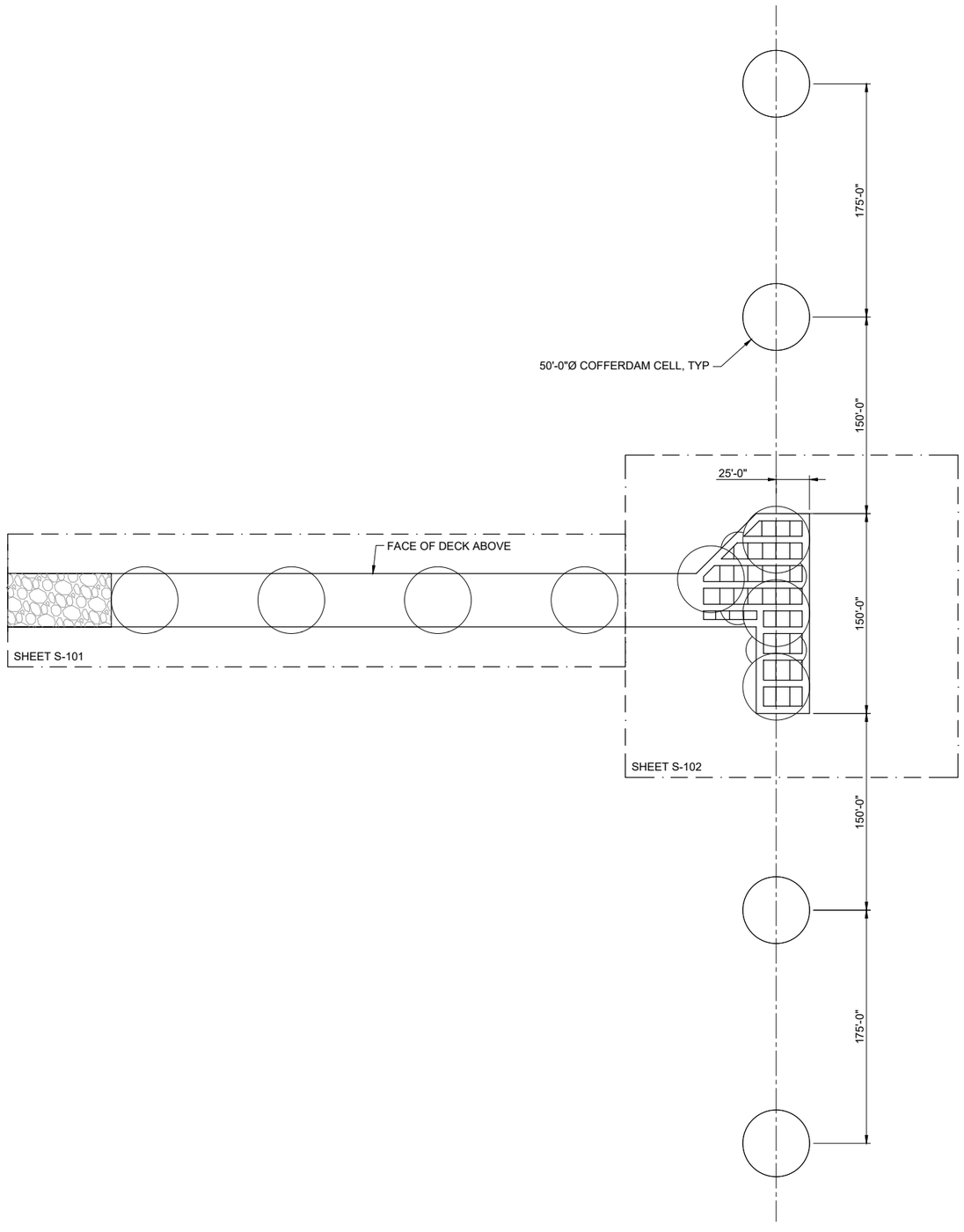

COFFERDAM GENERAL PLAN
SCALE: 1"=50'-0"

50'-0" 0'-0" 50'-0" 100'-0"
SCALE: 1"=50'

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

COFFERDAM GENERAL PLAN

Designed by:	MSM
Drawn by:	MSM
Checked by:	SBJ
Reviewed by:	SBJ
Date:	2/25/2021
M&N Project No.	11120-01
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Rev.	REVNO

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Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

SEAL

Sheet Reference No.
S-100
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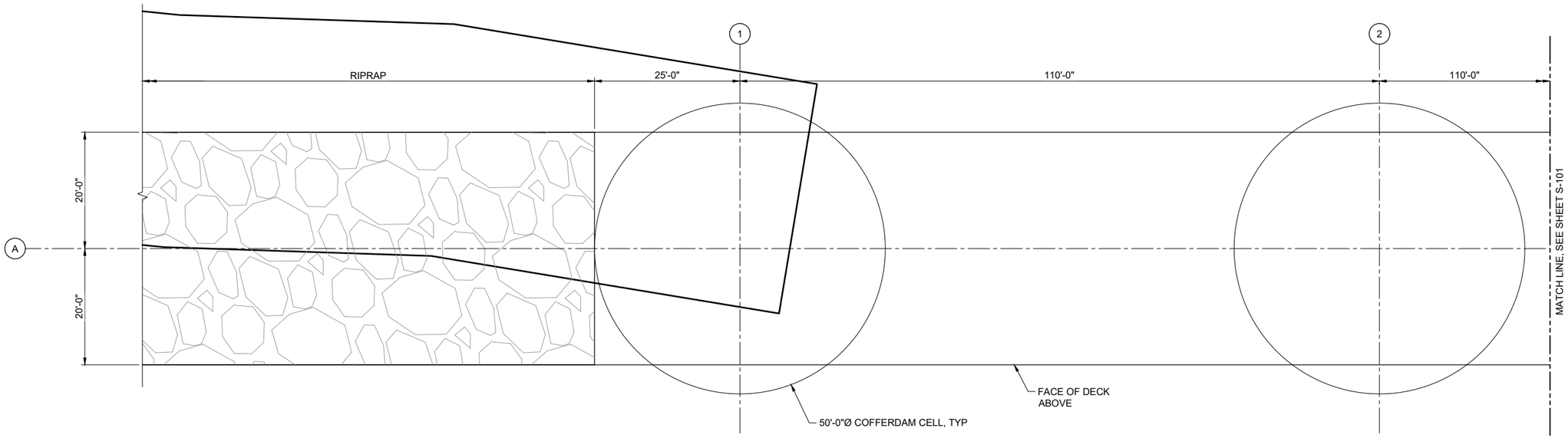

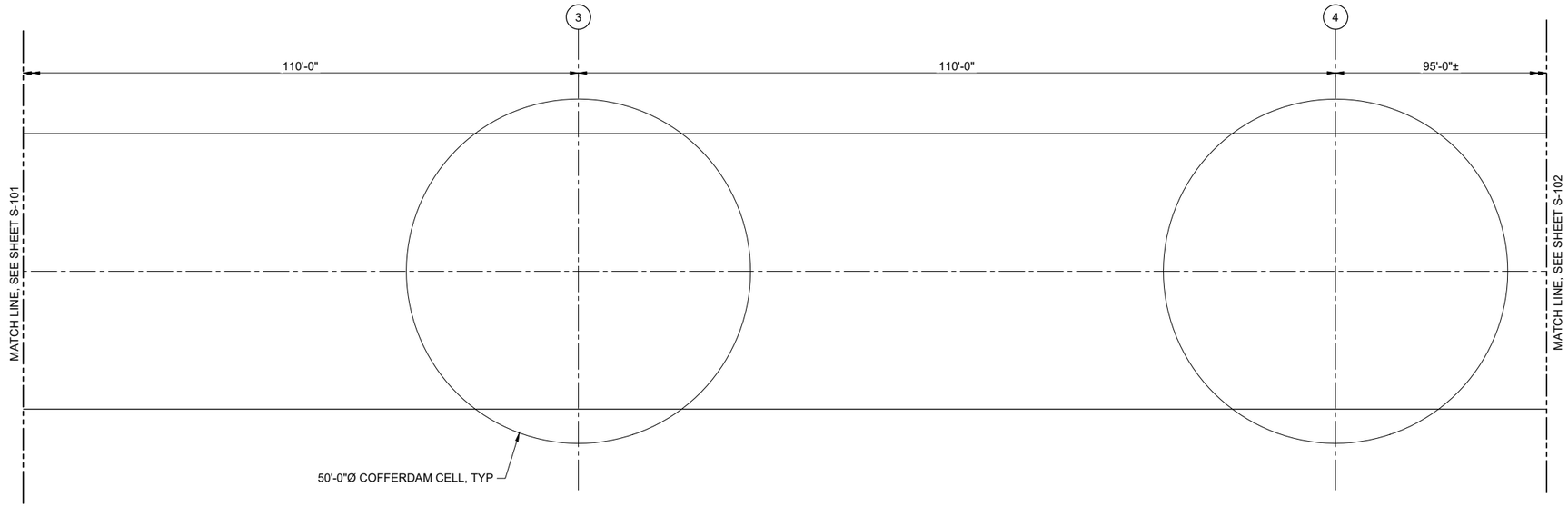

COFFERDAM ENLARGED PLAN - 1 OF 2

SCALE: 1"=10'-0"

10'-0" 0'-0" 10'-0" 20'-0"

SCALE: 1"=10'

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ISSUED: 2021-04-20
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Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

COFFERDAM ENLARGED PLAN - SHEET 1 OF 2

Designed by: BS
Dwn by: MSM
Ckd by: SBJ
Reviewed by: SBJ
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2/25/2021
Rev: ----
M&N Project No. 11120-01
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

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Sheet Reference No.
S-101
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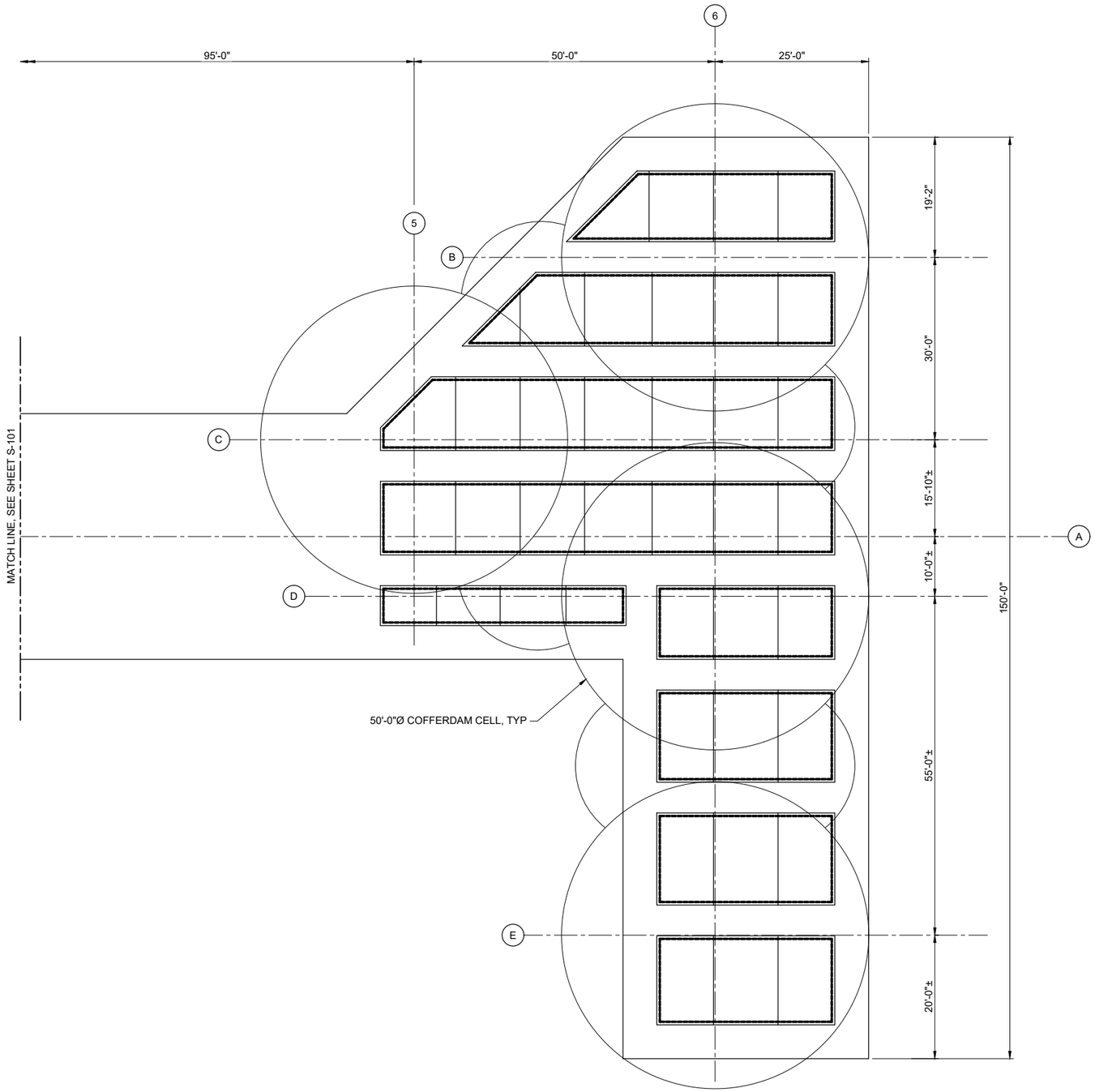

COFFERDAM ENLARGED PLAN - 2 OF 2

SCALE: 1"=10'-0"

10'-0" 0'-0" 10'-0" 20'-0"

SCALE: 1"=10'

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark	Description	Date	Appr

PERMIT DRAWINGS FOR PROSPECT PIER

COFFERDAM ENLARGED PLAN - SHEET 2 OF 2

Designed by: BS	Dwn by: MSM	Ckd by: SBJ	Reviewed by: SBJ
Date: 2/25/2021	M&N Project No. 11120-01	Drawing code:	
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL	Drawing Scale:	Plot scale: 1:1 (D SHEET)	Rev: -----

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Sheet Reference No.

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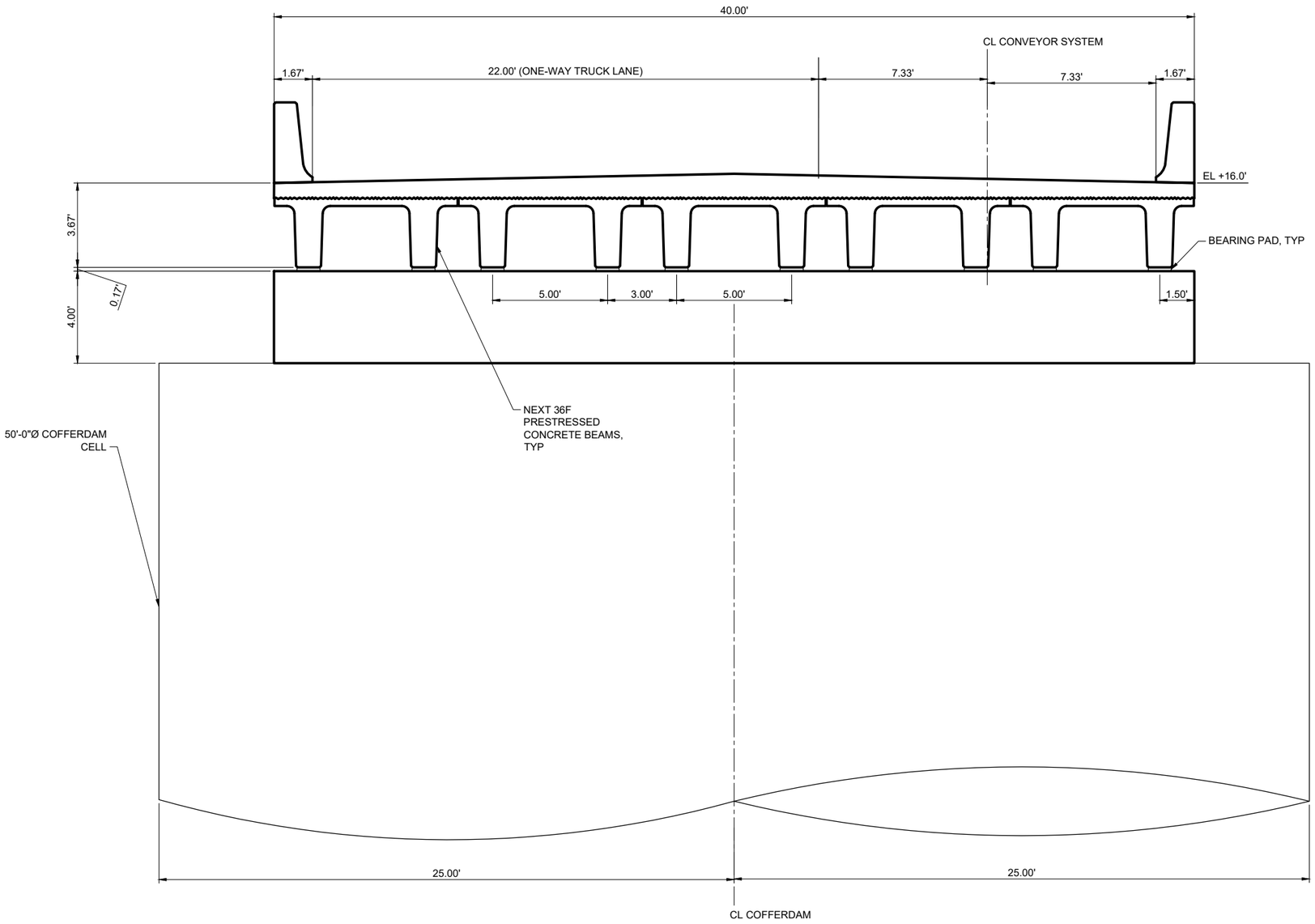

PIER SECTION
SCALE: 3/8"=1'-0"

4' 0'-0" 2' 4'
SCALE: 3/8"=1'-0"

PERMIT DRAWINGS
ISSUED: 2021-04-20
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark	Description	Date	Appr

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PIER SECTION

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781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

Designed by: IM	Det by: MSM	Ckd by: BA	Reviewed by: SBJ
Date: 2/25/2021	M&N Project No. 11120-01	Drawing code:	Drawing Scale:
Rev: -----			Plot scale: 1:1 (D SHEET)
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL			

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Sheet Reference No.
S-301
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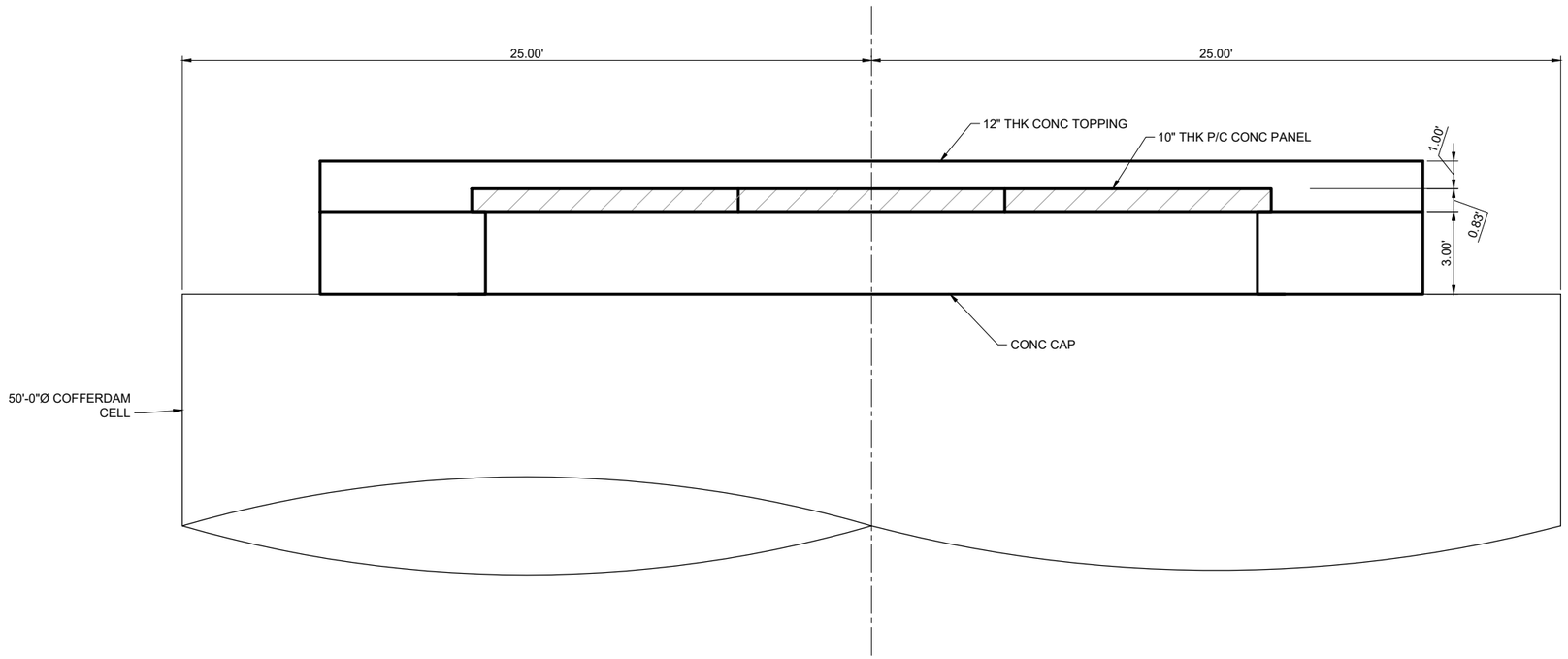

MOORING DOLPHIN SECTION
SCALE: 3/8"=1'-0"

4' 0'-0" 2' 4'
SCALE: 3/8"=1'-0"

PERMIT DRAWINGS
ISSUED: 2021-04-20
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Mark	Description	Date	Appr

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MOORING DOLPHIN DETAIL

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VIRGINIA BEACH, VA 23457

Designed by: IM	Det by: MSM	Ckd by: BA	Rev: -----
Reviewed by: SBJ	Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL	Drawing code:	Date: 2/25/2021
Drawing Scale: Plot scale= 1:1 (D SHEET)		M&N Project No. 11120-01	

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Sheet Reference No.
S-302
INDEX: 18 OF 20

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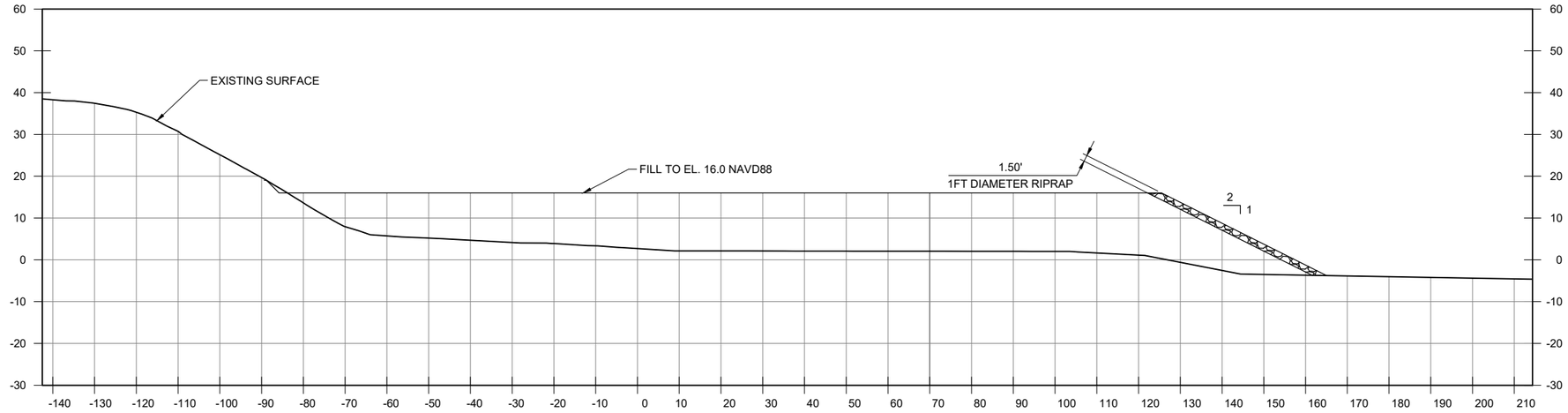
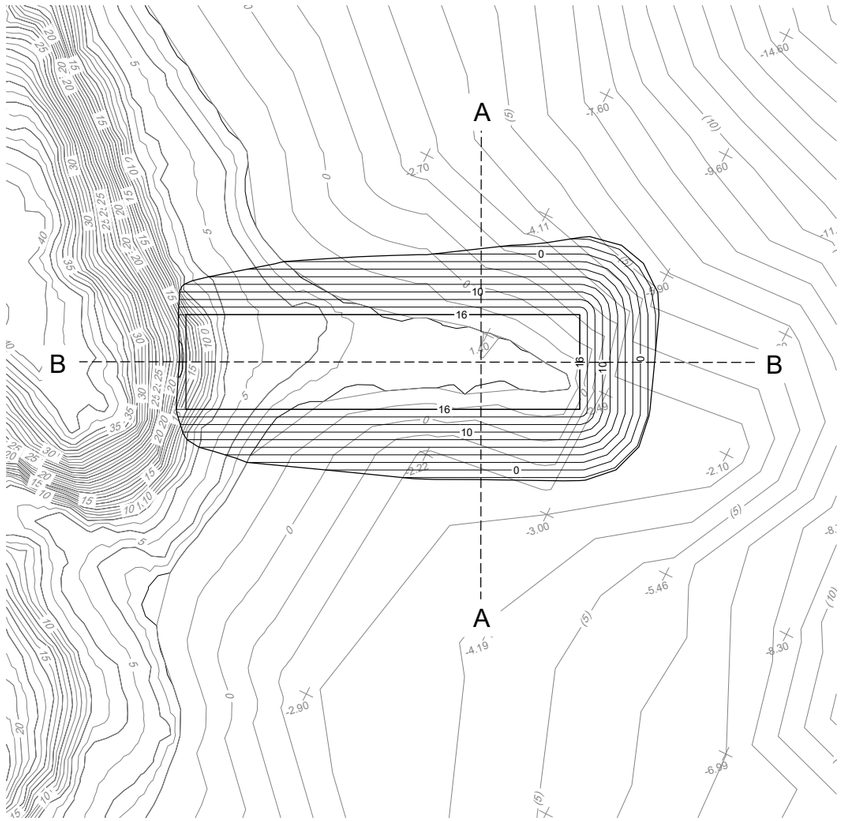
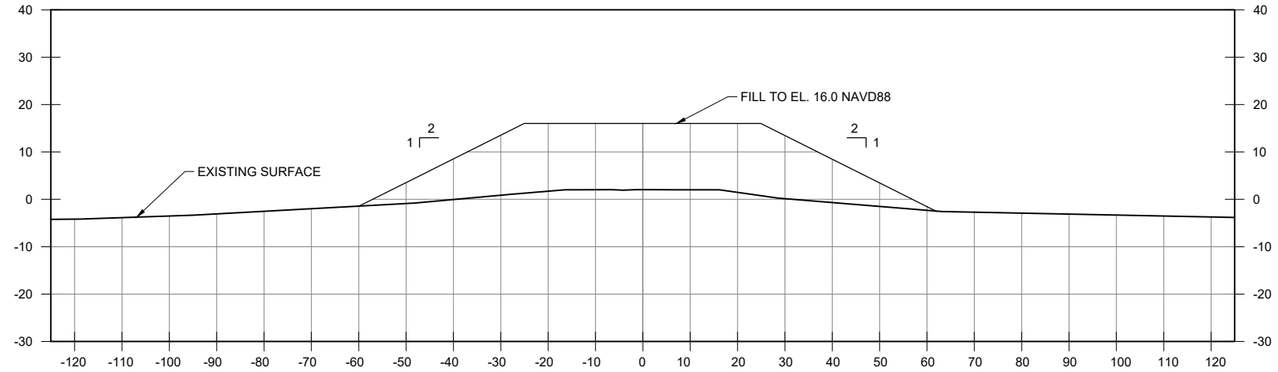


SECTION B - UPLAND FILL
SCALE: 1"=16'-0"



PLAN - UPLAND FILL
SCALE: 1"=40'-0"



SECTION A - UPLAND FILL
SCALE: 1"=16'-0"

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

PERMIT DRAWINGS FOR PROSPECT PIER

UPLAND FILL SECTION

Mark	Description	Date	Appd

Designed by:	MSM
Drawn by:	MSM
Cad by:	SBJ
Reviewed by:	SBJ
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2/25/2021
M&N Project No.	11120-01
Drawing code:	
Drawing Scale:	1:1 (D SHEET)
Plot scale:	1:1
Rev.	---"

MOFFATT & NICHOL
101 W. MAIN ST, SUITE 3000
NORFOLK, VA 23510

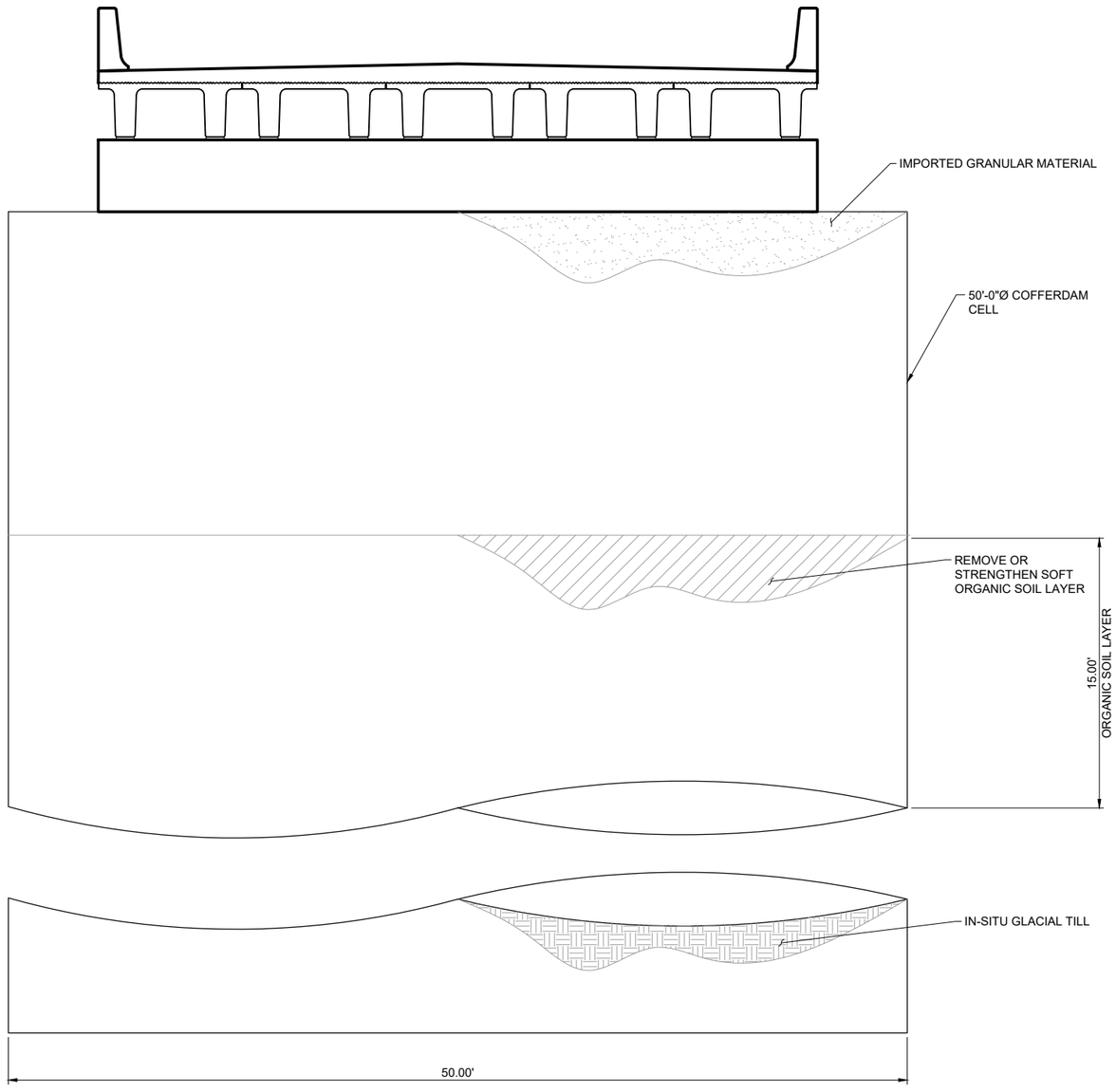
SALMONS, INC.
781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

SEAL

Sheet
Reference No.
S-303
INDEX: 19 OF 20

File: Q:\NOR\11120\cadd_Active_Concept\11120-S-303 ; Plotted: 8/31/2021 5:31 PM by MIRANDA.MATHELUS ; Saved: 8/23/2021 5:42 PM by MMIRANDA

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



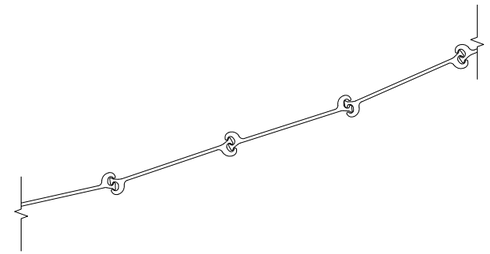
EL +16.0'

EL +8.17'

APPROXIMATE MUDLINE

COFFERDAM TIP EL -75.00'

COFFERDAM TYPICAL SECTION
SCALE: 1/4"=1'-0"



COFFERDAM ARC DETAIL
SCALE: 1/4"=1'-0"

4' 0'-0" 2' 4'
SCALE: 1/4"=1'-0"

PERMIT DRAWINGS
ISSUED: 2021-04-20
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appd

PERMIT DRAWINGS FOR PROSPECT PIER

COFFERDAM DETAIL

MOFFATT & NICHOL
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NORFOLK, VA 23510

SALMONS, INC.
781 PRINCESS ANNE RD
VIRGINIA BEACH, VA 23457

Designed by: BS	Cad by: SBJ	Reviewed by: SBJ	Date: 2/25/2021
Dwn by: MSM			Rev. ---"
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL		Drawing code:	M&N Project No. 11120-01
Plot scale: 1:1 (D SHEET)		Drawing Scale:	

SEAL

Sheet Reference No.
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