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WATER QUALITY CERTIFICATE TOWN OF GROTON NSB NEW LONDON CT
6/2/1998
STATE OF CONNECTICUT



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF LONG ISLAND SOUND PROGRAMS



June 2, 1998

CERTIFIED MAIL
 RETURN RECEIPT REQUESTED

Ms. Nancy Kuntzleman
 Northern Division
 Naval Facilities Engineering Command
 10 Industrial Highway, Mail Stop #82
 Lester, PA 19113-2090

SUBJECT: WATER QUALITY CERTIFICATE NO. 199801839-GW
 Dept. of the Navy
 Town of Groton

Dear Ms. Kuntzleman:

Enclosed is the signed water quality certificate which constitutes the approval of your application to conduct regulated activities. In addition, we concur with your determination that the project is consistent, to the maximum extent practicable, with Connecticut's approved Coastal Management Program. Your attention is directed to the conditions of the enclosed certificate. Construction or work must conform to that which is authorized.

If you have not already done so, you should contact the Groton Planning and Zoning Office to determine local permit requirements on your project, if any. Also, your activity may be eligible for General Permit authorization from the U.S. Army Corps of Engineers. The State of Connecticut forwarded a copy of its tentative determination for this activity to the Corps for its determination of General Permit eligibility. You do not need to apply directly to the Corps unless they notify you. If General Permit eligibility has already been determined, an authorization letter will be attached to this certificate. Otherwise, authorization will be mailed separately. For more information regarding this new federal process, you may write to the Corps New England Division, Regulatory Branch, 696 Virginia Road, Concord, Massachusetts 01742-2751; or, call (617) 647-8335.

If you have any questions concerning your certificate, please contact staff of the Permit section at (860)424-3034.

Sincerely,

Arthur J. Rocque, Jr.
 Commissioner

AJR/wlm
 encl.

Sent Certified Mail, Return Receipt Requested to: Commissioner of Transportation; Adjacent Property Owners; All Parties; the Mayor, First Selectman or Town Manager; Shellfish Commission; the Planning and Zoning Commissions; and the Harbor Management Commission.

Copies Furnished to:

Conservation Commission	DEP/Water Mgt. Bureau
DEP/Wildlife Division	DOT/Bureau of Aeronautics and Ports
DEP/Fisheries Division	File No. 199801839
Dept. of Agriculture/Aquaculture Division	Desk Copy



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Water Quality Certificate



Certificate No.: 199801839-GW

Town: Groton

Work Area: Thames River off property located at the abandoned marine railway adjacent to Pier 1 at the New London Submarine base.

Certificate

Holder: Dept. of the Navy,
Northern Division, Naval Facilities Engineering Command, 10 Industrial
Highway, Mail Stop #82, Lester, PA 19113-2090.

Pursuant to section 401 of the Federal Clean Water Act, as amended, and in accordance with section 22a-98 of the Connecticut General Statutes, and the Connecticut Water Quality Standards dated April 1997, a water quality certificate is hereby granted by the Commissioner of Environmental Protection (Commissioner) to construct a Controlled Industrial Facility for nuclear propulsion plant maintenance support as is more specifically described below in the SCOPE OF AUTHORIZATION, in the Thames River off property identified as the "work area" above.

*******NOTICE TO CERTIFICATE HOLDERS AND CONTRACTORS*******

FAILURE TO CONFORM TO THE TERMS AND CONDITIONS OF THIS WATER QUALITY CERTIFICATE MAY SUBJECT THE CERTIFICATE HOLDER AND ANY CONTRACTOR TO ENFORCEMENT ACTIONS, INCLUDING PENALTIES AND INJUNCTIONS, AS PROVIDED BY LAW.

SCOPE OF AUTHORIZATION

- A. The certificate holder is hereby authorized to conduct the following work as described in application 199801839-GW, including eleven sheets of plans sheet 1 of 11 dated 16 June 1997, sheet 2 of 11 dated 16 June 1997, sheet 3 of 11 dated 16 June 1997, sheet 4 of 11 dated 30 October 1997, sheet 5 of 11 dated 18 December 1997, sheet 6 of 11 dated 16 June 1997, sheet 7 of 11 dated 16 June 1997, sheet 8 of 11 dated 16 June 1997, sheet 9 of 11 dated 16 June 1997, sheet 10 of 11 dated 16 June 1997, and sheet 11 of 11 dated 16 June 1997, submitted by the certificate holder to the Commissioner and attached hereto:

Construct a Controlled Industrial Facility (CIF) on the abandoned marine railway adjacent to Pier 1 by constructing a vertical concrete retaining wall keyed into the existing marine railway apron; place approximately 6,579 cubic yards of clean aggregate fill landward of the retaining wall, of which approximately 4,705 cubic yards over approximately 7,425 square feet is waterward of the high tide line;

place approximately 86 cubic yards of rip-rap on the river side of the retaining wall and construct the CIF on the placed fill and wall.

- B. The certificate holder may, consistent with all terms and conditions of this water quality certificate, conduct routine maintenance, as that term is defined in section 22a-363a of the General Statutes, of the structures authorized herein.

UPON INITIATION OF ANY WORK AUTHORIZED HEREIN, THE CERTIFICATE HOLDER ACCEPTS AND AGREES TO COMPLY WITH ALL TERMS AND CONDITIONS OF THIS WATER QUALITY CERTIFICATE.

SPECIAL TERMS AND CONDITIONS

1. Except as specifically authorized by this certificate, no equipment or material including but not limited to, fill, construction materials, excavated material or debris, shall be deposited, placed or stored in any wetland or watercourse on or off-site, or within any delineated setback area, nor shall any wetland, watercourse or delineated setback area be used as a staging area or accessway other than as provided herein.
2. Unconfined in-water excavation, dredging, filling or removal of debris or other material is prohibited between February 1 and September 30 of any year in order to protect winter flounder, anadromous fisheries, and spawning shellfish in the area.
3. Construction activities authorized herein shall be conducted in the dry.
4. The Certificate Holder shall obtain a Temporary Discharge Authorization from the Department of Environmental Protection Water Bureau for the dewatering water to be discharged from the work area prior to commencing dewatering.

GENERAL TERMS AND CONDITIONS

1. All work authorized by this water quality certificate shall be completed within three years from date of issuance of this water quality certificate ("work completion date"), except that maintenance as specified in the SCOPE OF AUTHORIZATION may be conducted at any time, in accordance with all conditions of this water quality certificate and any other applicable law.
 - a. The certificate holder may request a one year extension of the work completion date. Such request shall be in writing and shall be submitted to the Commissioner at least 30 days prior to said work completion date. Such request shall describe the work done
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to date, work which still needs to be completed and the reason for such extension. The Commissioner shall grant or deny such request in his sole discretion.

- b. Any work authorized herein, other than maintenance authorized herein, conducted after said work completion date or any authorized one year extension thereof is a violation of this water quality certificate and may subject the Certificate Holder to enforcement action, including penalties, as provided by law.
 2. In conducting the work authorized herein, the Certificate Holder shall not deviate from the attached plans, as may be modified by this water quality certificate. The Certificate Holder shall not make de minimis changes from said plans without prior written approval of the Commissioner.
 3. The Certificate Holder shall, consistent with the SCOPE OF AUTHORIZATION, maintain all structures or other work authorized herein in good condition.
 4. Prior to the commencement of any work authorized herein, the Certificate Holder shall cause a copy of this water quality certificate to be given to any contractor(s) employed to conduct such work. At the work area the Certificate Holder shall, whenever work is being performed, make available for inspection a copy of this water quality certificate and the final plans for the work authorized herein.
 5. The Certificate Holder shall, consistent with the SCOPE OF AUTHORIZATION, maintain all structures or other work authorized herein in good condition.
 6. The Certificate Holder shall notify the Commissioner in writing of the commencement of any work and completion of all work authorized herein no later than three days prior to the commencement of such work and no later than seven days after the completion of such work.
 7. On or before (a) 90 days after completion of the work authorized herein, or (b) upon expiration of the work completion date or any authorized one year extension thereof, whichever is earlier, the Certificate Holder shall submit to the Commissioner "as built" plans prepared and sealed by a licensed engineer, licensed surveyor or licensed architect, as applicable, of the work area showing all contours, bathymetries, tidal datums and structures.
 8. The Certificate Holder shall dispose of aquatic sediments in accordance with the terms and conditions of this water quality certificate. All waste material generated by the performance of the work authorized herein shall be disposed of by the Certificate Holder at an upland site approved for the disposal of such waste material, as applicable.
 9. In undertaking the work authorized hereunder, the Certificate Holder shall not cause or allow pollution of wetlands or watercourses, including pollution resulting from sedimentation and erosion. For purposes of this water quality certificate, "pollution" means "pollution" as that
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term is defined by section 22a-423 of the General Statutes.

10. Upon completion of any work authorized herein, the Certificate Holder shall restore all areas impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.
11. Any document required to be submitted to the Commissioner under this water quality certificate or any contact required to be made with the Commissioner shall, unless otherwise specified in writing by the Commissioner, be directed to:

Permit Section
Office of Long Island Sound Programs
Department of Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127
(860) 424-3034
Fax # (860) 424-4054

12. The date of submission to the Commissioner of any document required by this water quality certificate shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this water quality certificate, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this water quality certificate, the word "day" as used in this water quality certificate means calendar day. Any document or action which is required by this water quality certificate to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or a Connecticut or federal holiday.
 13. The work specified in the SCOPE OF AUTHORIZATION is authorized solely for the purpose set out in this water quality certificate. No change in the purpose or use of the authorized work or facilities as set forth in this water quality certificate may occur without the prior written authorization of the Commissioner. The Certificate Holder shall, prior to undertaking or allowing any change in use or purpose from that which is authorized by this water quality certificate, request authorization from the Commissioner for such change. Said request shall be in writing and shall describe the proposed change and the reason for the change.
 14. This water quality certificate may be revoked, suspended, or modified in accordance with applicable law.
 15. This water quality certificate is not transferable without prior written authorization of the
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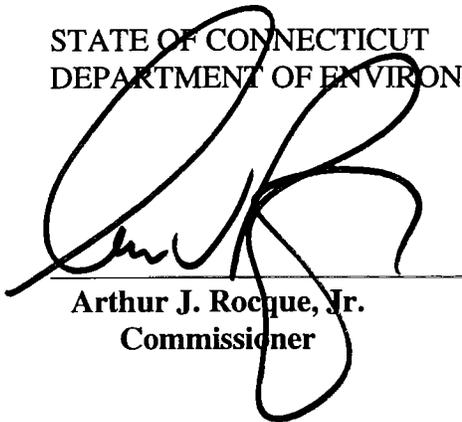
Commissioner. A request to transfer a water quality certificate shall be submitted in writing and shall describe the proposed transfer and the reason for such transfer. The Certificate Holder's obligations under this water quality certificate shall not be affected by the passage of title to the work area to any other person or municipality until such time as a transfer is authorized by the Commissioner.

16. The Certificate Holder shall allow any representative of the Commissioner to inspect the work authorized herein at reasonable times to ensure that it is being or has been accomplished in accordance with the terms and conditions of this water quality certificate.
 17. In granting this water quality certificate, the Commissioner has relied on representations of the Certificate Holder, including information and data provided in support of the Certificate Holder's application. Neither the Certificate Holder's representations nor the issuance of this water quality certificate shall constitute an assurance by the Commissioner as to the structural integrity, the engineering feasibility or the efficacy of such design.
 18. In the event that the Certificate Holder becomes aware that he did not or may not comply, or did not or may not comply on time, with any provision of this water quality certificate or of any document required hereunder, the Certificate Holder shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the Certificate Holder shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the Certificate Holder shall comply with any dates which may be approved in writing by the Commissioner. Notification by the Certificate Holder shall not excuse noncompliance or delay and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically stated by the Commissioner in writing.
 19. In evaluating the application for this water quality certificate, the Commissioner has relied on information and data provided by the Certificate Holder and on the Certificate Holder's representations concerning site conditions, design specifications and the purpose of the work authorized herein, including but not limited to representations concerning the commercial, public or private nature of the work or structures authorized herein, the water-dependency of said work or structures, its availability for access by the general public, and the ownership of regulated structures or filled areas. If such information proves to be false, deceptive, incomplete or inaccurate, this water quality certificate may be modified, suspended or revoked, and the Certificate Holder may be subject to enforcement action.
 20. The Certificate Holder may not conduct any work waterward of the high tide line or in tidal wetlands at this work area other than work authorized herein, unless otherwise authorized by the Commissioner pursuant to section 22a-359 et. seq. and/or section 22a-32 et. seq. of the Connecticut General Statutes.
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- 21. The issuance of this water quality certificate does not relieve the Certificate Holder of his obligations to obtain any other approvals required by applicable federal, state and local law.
- 22. Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under this water quality certificate shall be signed by the Certificate Holder and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."
- 23. This water quality certificate is subject to and does not derogate any present or future property rights or powers of the state of Connecticut, and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the property or activity affected hereby.

Issued on June 1, 1998.

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Arthur J. Rocque, Jr.
Commissioner

Permit Application No. 199801839
Dept. of the Navy Certified Mail # _____
wlm

OFFICE OF LONG ISLAND SOUND PROGRAMS

APPENDIX A

TO: Permit Section
Department of Environmental Protection
Office of Long Island Sound Programs
79 Elm Street
Hartford, CT 06106-5127

Certificate Holder: Dept. of the Navy, Northern Division, Naval Facilities Engineering Command, 10 Industrial Highway, Mail Stop #82.

PERMIT NO: 199801839-GW, Groton

CONTRACTOR 1: _____

Address: _____

Telephone #: _____

CONTRACTOR 2: _____

Address: _____

Telephone #: _____

CONTRACTOR 3: _____

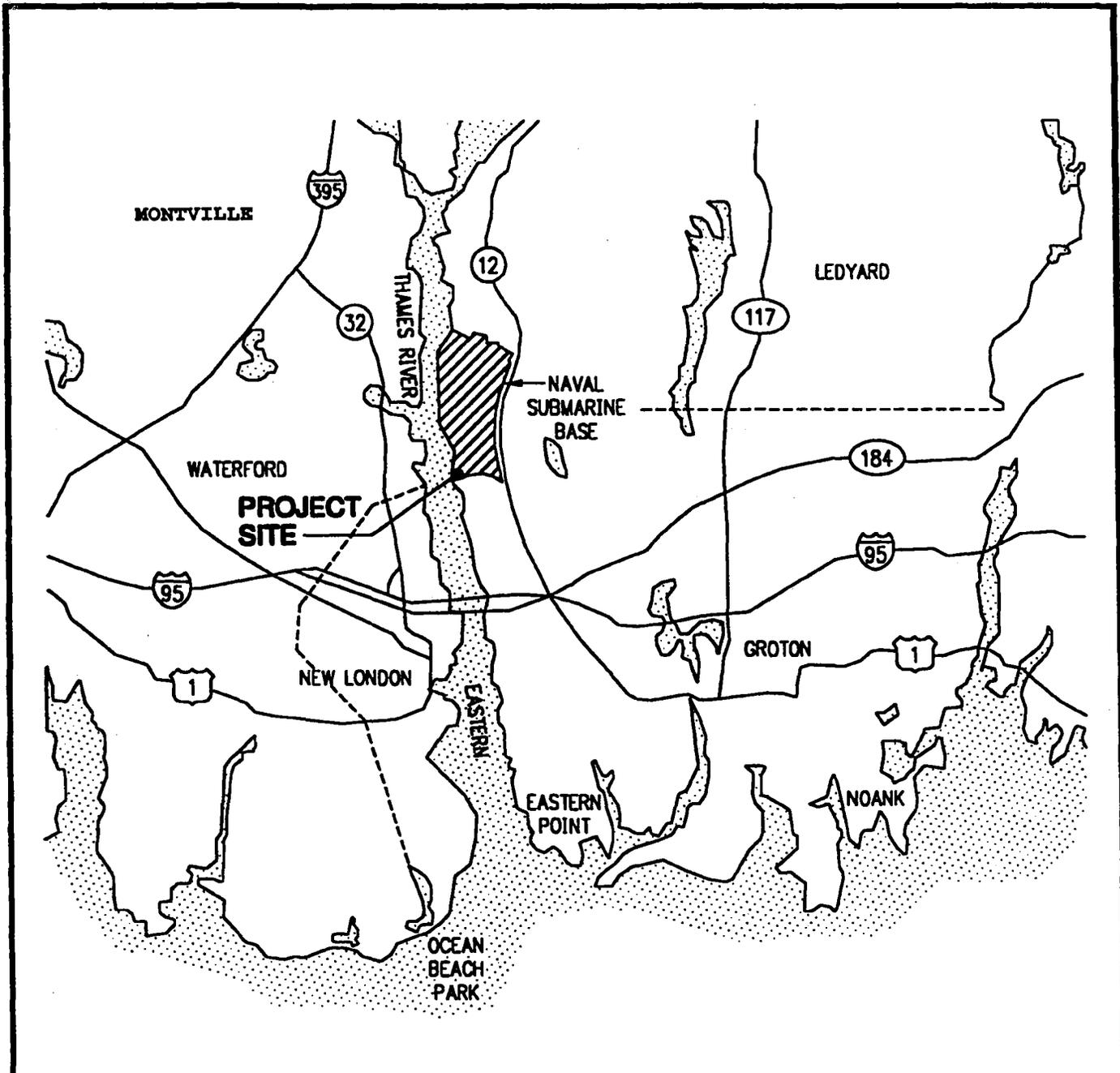
Address: _____

Telephone #: _____

EXPECTED DATE OF COMMENCEMENT OF WORK: _____

EXPECTED DATE OF COMPLETION OF WORK: _____

CERTIFICATE _____
HOLDER: (signature) (date)



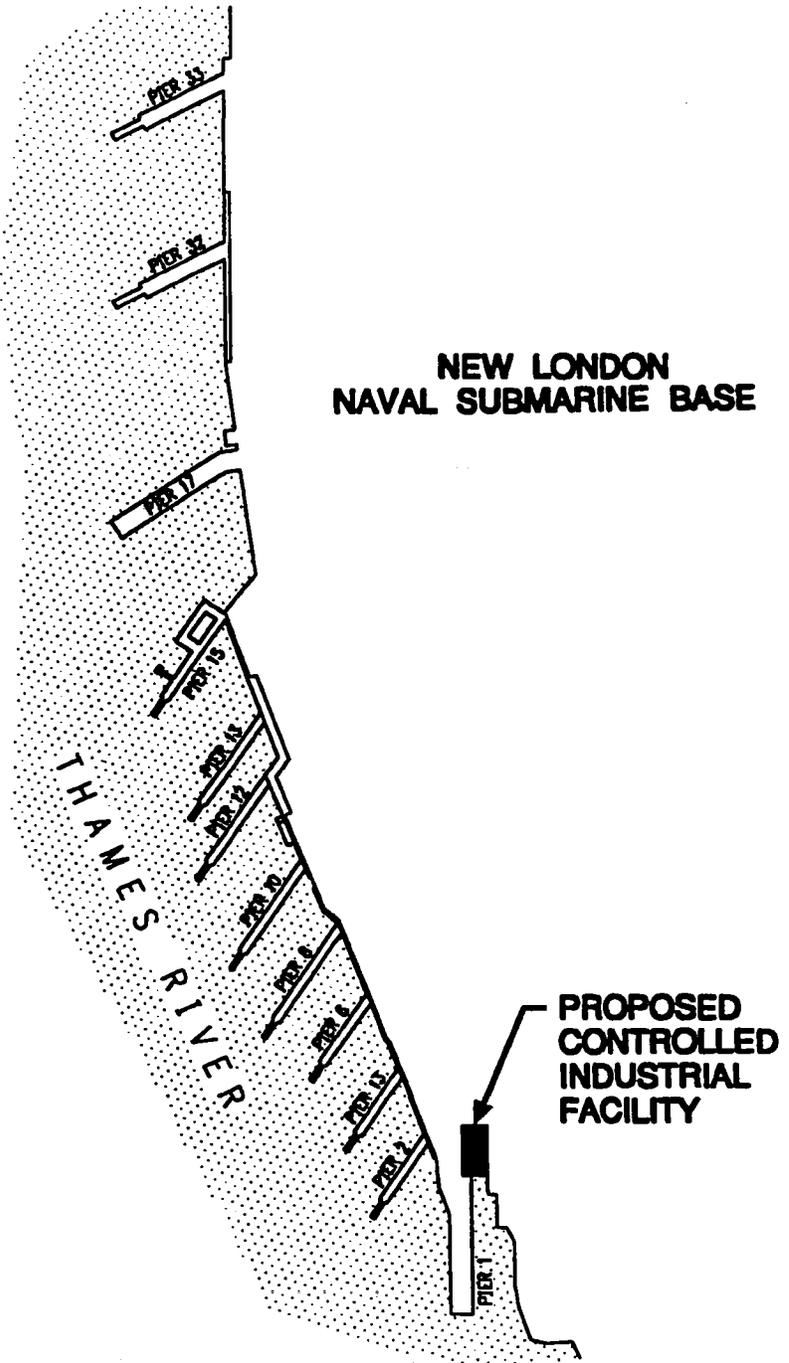
LONG ISLAND SOUND



SCALE: 1" = 2 MILES (APPROX.)

<p>NAVAL SUBMARINE BASE NEW LONDON GROTON, CT</p>	<p>Burns & McDonnell</p>	<p>CONTROLLED INDUSTRIAL FACILITY VICINITY MAP SHEET 1 OF 11 16 JUNE 1997</p>
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**NEW LONDON
NAVAL SUBMARINE BASE**



GENERAL PLAN

SCALE: 1" = 800'-0" (APPROX.)



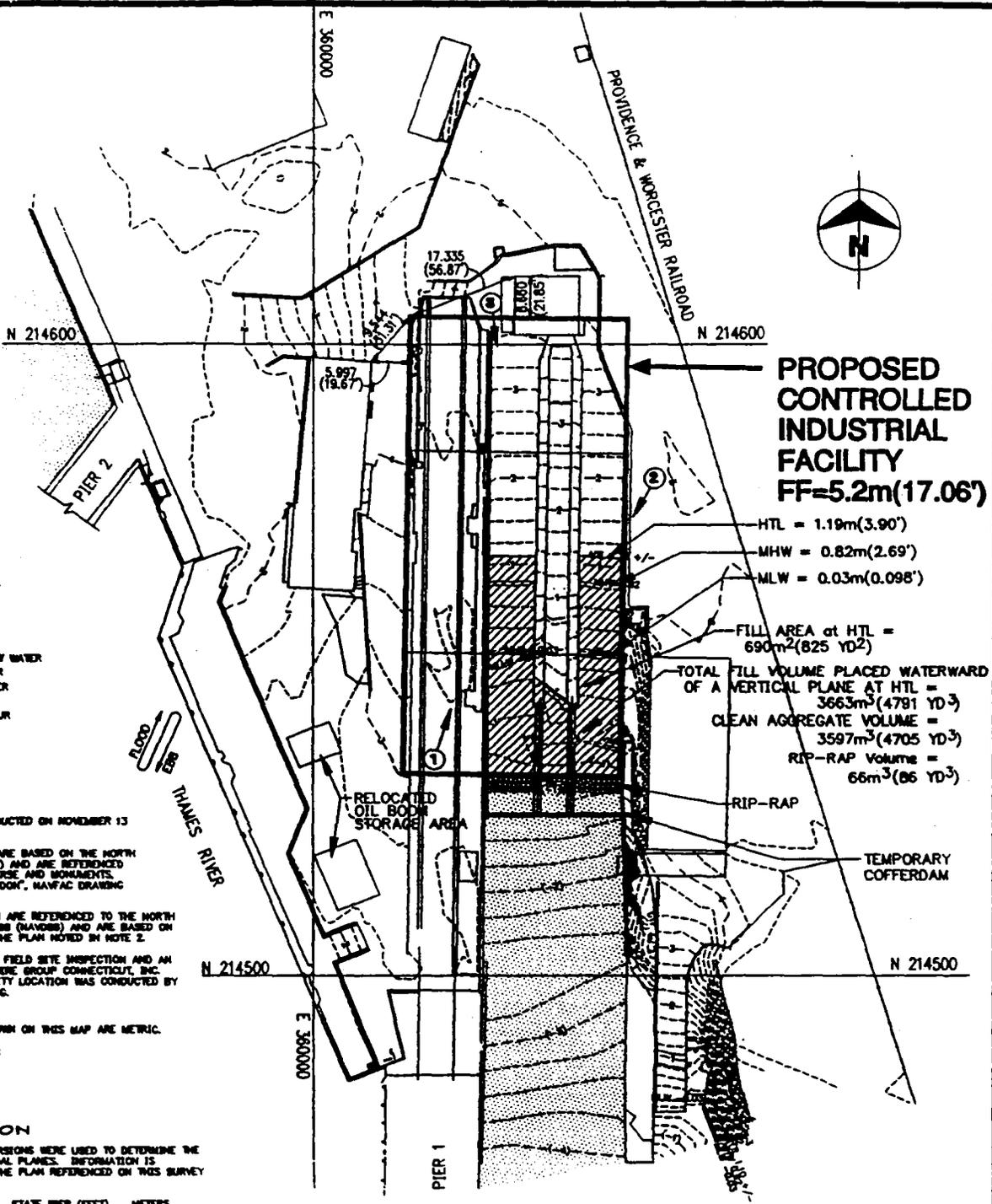
NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

**Burns
&
McDonnell**

**CONTROLLED INDUSTRIAL
FACILITY**
GENERAL PLAN

SHEET 2 OF 11

16 JUNE 1997



PROPOSED CONTROLLED INDUSTRIAL FACILITY
FF=5.2m(17.06')

HTL = 1.19m(3.90')
 MHW = 0.82m(2.69')
 MLW = 0.03m(0.098')

FILL AREA at HTL = 690m²(825 YD²)
 TOTAL FILL VOLUME PLACED WATERWARD OF A VERTICAL PLANE AT HTL = 3663m³(4791 YD³)
 CLEAN AGGREGATE VOLUME = 3597m³(4705 YD³)
 RIP-RAP Volume = 66m³(86 YD³)

LEGEND

- FF FINISHED FLOOR
- MLLW MEAN LOWER LOW WATER
- MLW MEAN LOW WATER
- MHW MEAN HIGH WATER
- HTL HIGH TIDE LINE
- - - EXISTING CONTOUR
- ① INDICATES PHOTO LOCATION

NOTES

1. THIS MAP DEPICTS A SURVEY CONDUCTED ON NOVEMBER 13 THROUGH 20, 1994.
2. NORTH AND COORDINATES SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND ARE REFERENCED TO A PLAN ENTITLED "BASE TRANSVERSE AND MONUMENTS, NAVAL SUBMARINE BASE, NEW LONDON", NAVFAC DRAWING NO. 206678.
3. ELEVATIONS AND CONTOURS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND ARE BASED ON CONTROL MONUMENTS SHOWN ON THE PLAN NOTED IN NOTE 2.
4. UTILITY LOCATIONS ARE BASED ON FIELD SITE INSPECTION AND AN OVERALL PLAN PROVIDED BY MARLINE GROUP CONNECTICUT, INC. NO FURTHER RESEARCH INTO UTILITY LOCATION WAS CONDUCTED BY RESOURCE MANAGEMENT & MAPPING.

NOTE: ALL DIMENSIONAL VALUES SHOWN ON THIS MAP ARE METRIC.
 THE FOLLOWING CONVERSIONS APPLY:
 1 METER = 3.28084 FEET
 1 FOOT = 0.3048 METERS

TIDAL INFORMATION

THE FOLLOWING TIDAL DATUM CONVERSIONS WERE USED TO DETERMINE THE LOCATION OF THE THAMES RIVER TIDAL PLANES. INFORMATION IS REFERENCED TO NOS DATA AND TO THE PLAN REFERENCED ON THIS SURVEY BY NOTE 2.

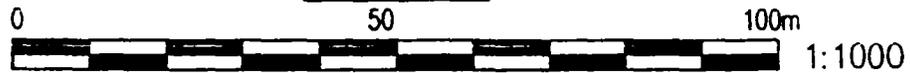
DATUM	STATE PIER (FEET)	METERS
MEAN HIGH WATER (MHW)	2.69	0.82
MEAN TIDE LEVEL (HTL)	1.39	0.42
NAVD88	0	0
MEAN LOW WATER (MLW)	0.09	0.03
MEAN LOWER LOW WATER (MLLW)	-0.09	-0.03

THE HIGH TIDE LINE (HTL) AS SHOWN ON THIS PLAN IS BASED UPON THE HIGHEST PREDICTED TIDE ABOVE MEAN LOWER LOW WATER AS SHOWN IN THE NOAA TIDE TABLES OF 1988. HTL = 3.9 FEET = 1.16 METERS. VALUES ARE APPROXIMATE.

FLOOD ZONES

THE SITE IS SUBJECT TO THE FOLLOWING FLOOD ZONES PER FIRM COMMUNITY PANEL NO. 09007 0002 C, REVISED AUGUST 16, 1984.
 ZONE V10 BASE FLOOD ELEVATION 1.98M NAVD88 = 1.98M NAVD88 (THIS MAP)
 ZONE A5 BASE FLOOD ELEVATION 1.39M NAVD88 = 1.39M NAVD88

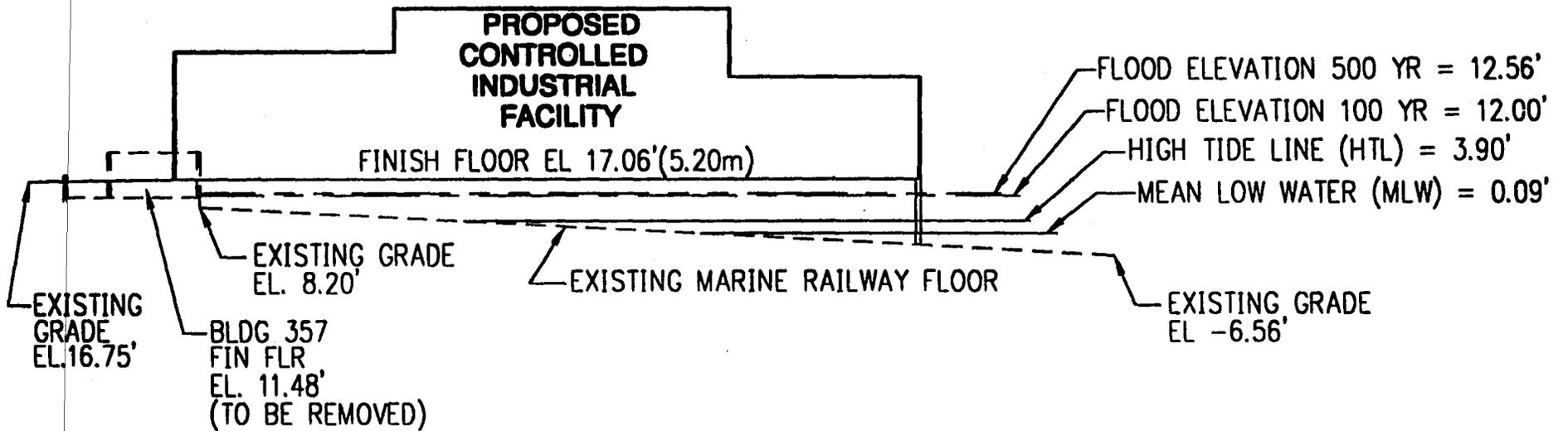
SITE PLAN



NAVAL SUBMARINE BASE
 NEW LONDON
 GROTON, CT



CONTROLLED INDUSTRIAL FACILITY
 SITE PLAN



SITE SECTION - EAST VIEW

SCALE: 1" = 50'

DATUM: NAVD88

NAVAL SUBMARINE BASE
NEW LONDON

GROTON, CT

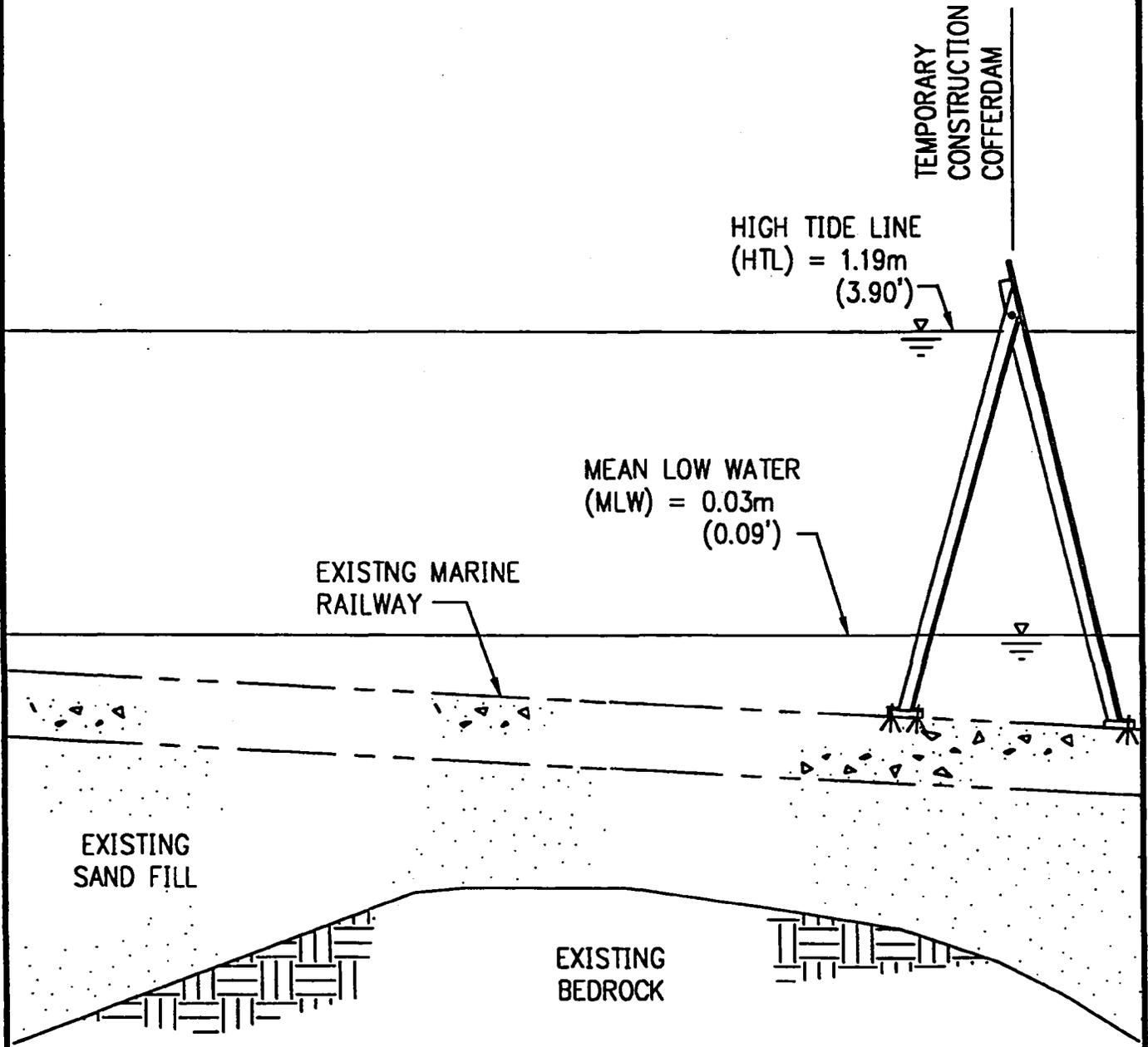
**Burns
&
McDonnell**

**CONTROLLED INDUSTRIAL
FACILITY**

SITE ELEVATION DATA
SHEET 5 OF 11 18 DEC 1997

NOTES:

1. INSTALL TEMPORARY COFFERDAM.
DRILL AND ANCHOR TO EXISTING FLOOR.
2. INSTALL DEWATERING APPARATUS AND
COMMENCE DEWATERING LANDWARD SIDE.



NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

Burns
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McDonnell

**CONTROLLED INDUSTRIAL
FACILITY**

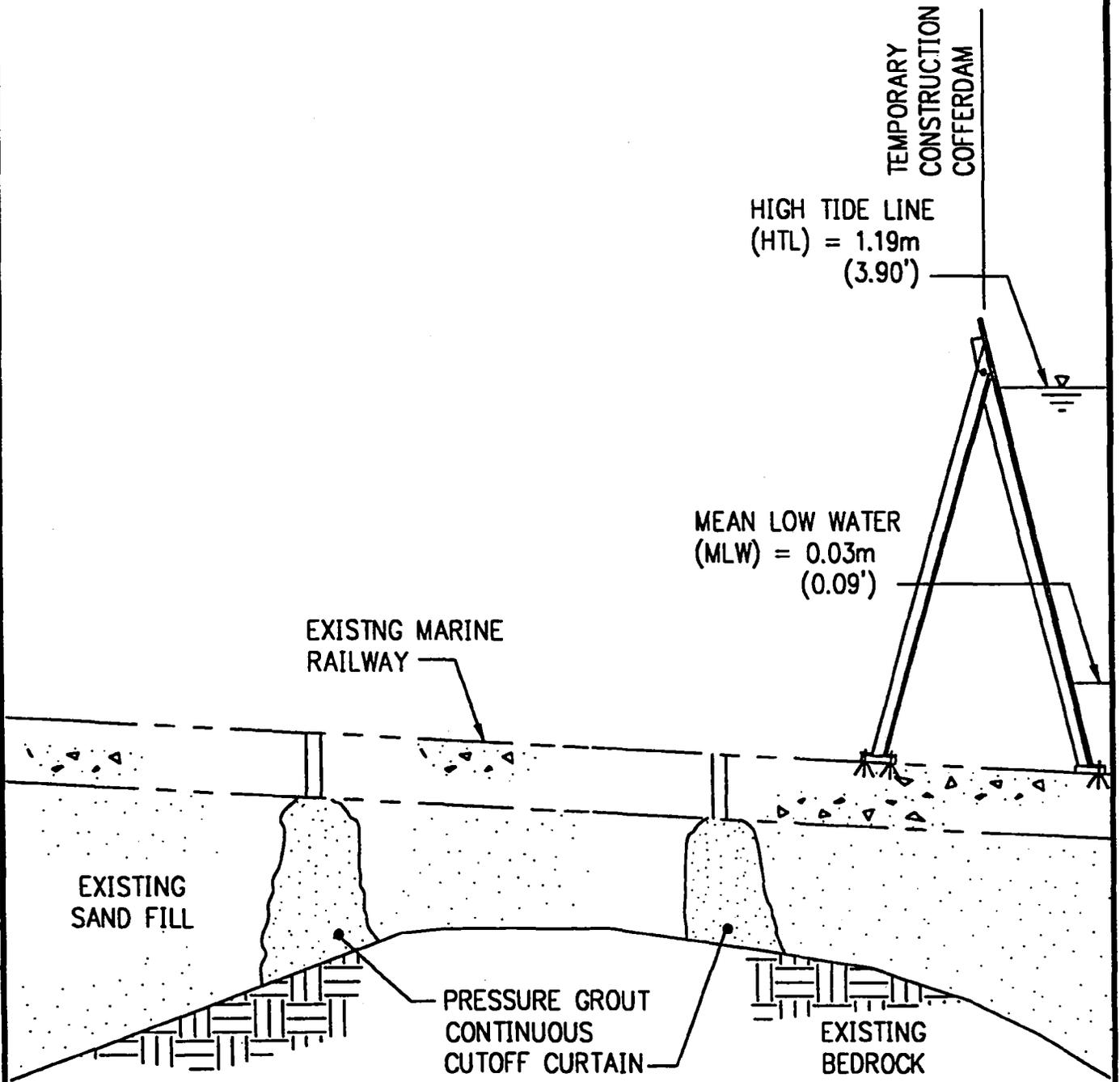
PHASE I CONSTRUCTION
SECTION AT WATER SURFACE

SHEET 6 OF 11

16 JUNE 1997

NOTES:

1. DRILL EXISTING MARINE RAILWAY SLAB FOR PRESSURE GROUTING.
2. PRESSURE GROUT FOR CUTOFF CURTAIN BELOW EXISTING MARINE RAILWAY.



NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

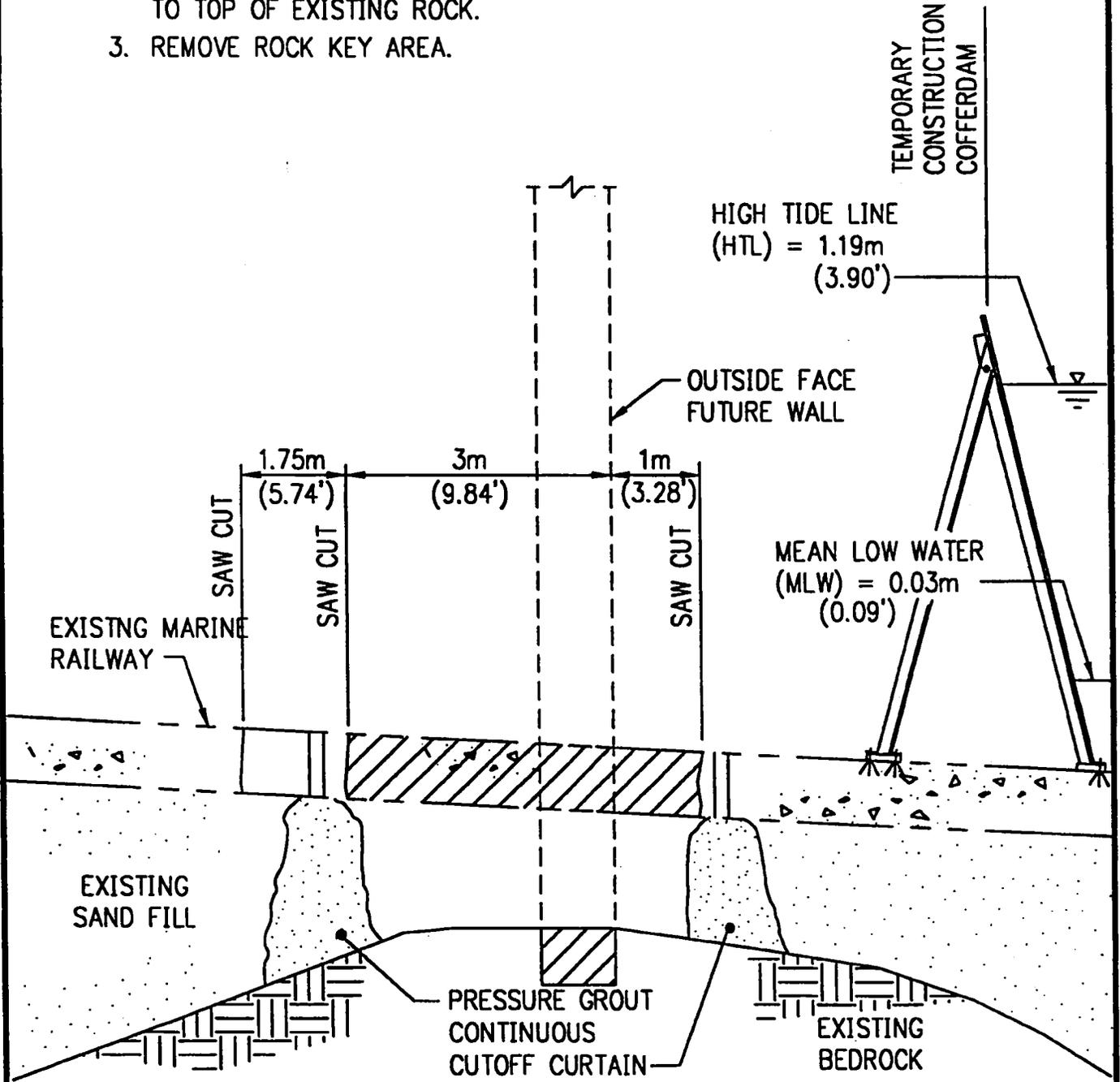
**Burns
&
McDonnell**

**CONTROLLED INDUSTRIAL
FACILITY**

PHASE II CONSTRUCTION
SECTION AT WATER SURFACE
SHEET 7 OF 11 16 JUNE 1997

NOTES:

1. SAW CUT EXISTING MARINE RAILWAY TRANSVERSLY IN THREE LOCATIONS.
2. REMOVE EXISTING CONCRETE SECTION AND SUBGRADE TO TOP OF EXISTING ROCK.
3. REMOVE ROCK KEY AREA.



NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

**Burns
&
McDonnell**

**CONTROLLED INDUSTRIAL
FACILITY**

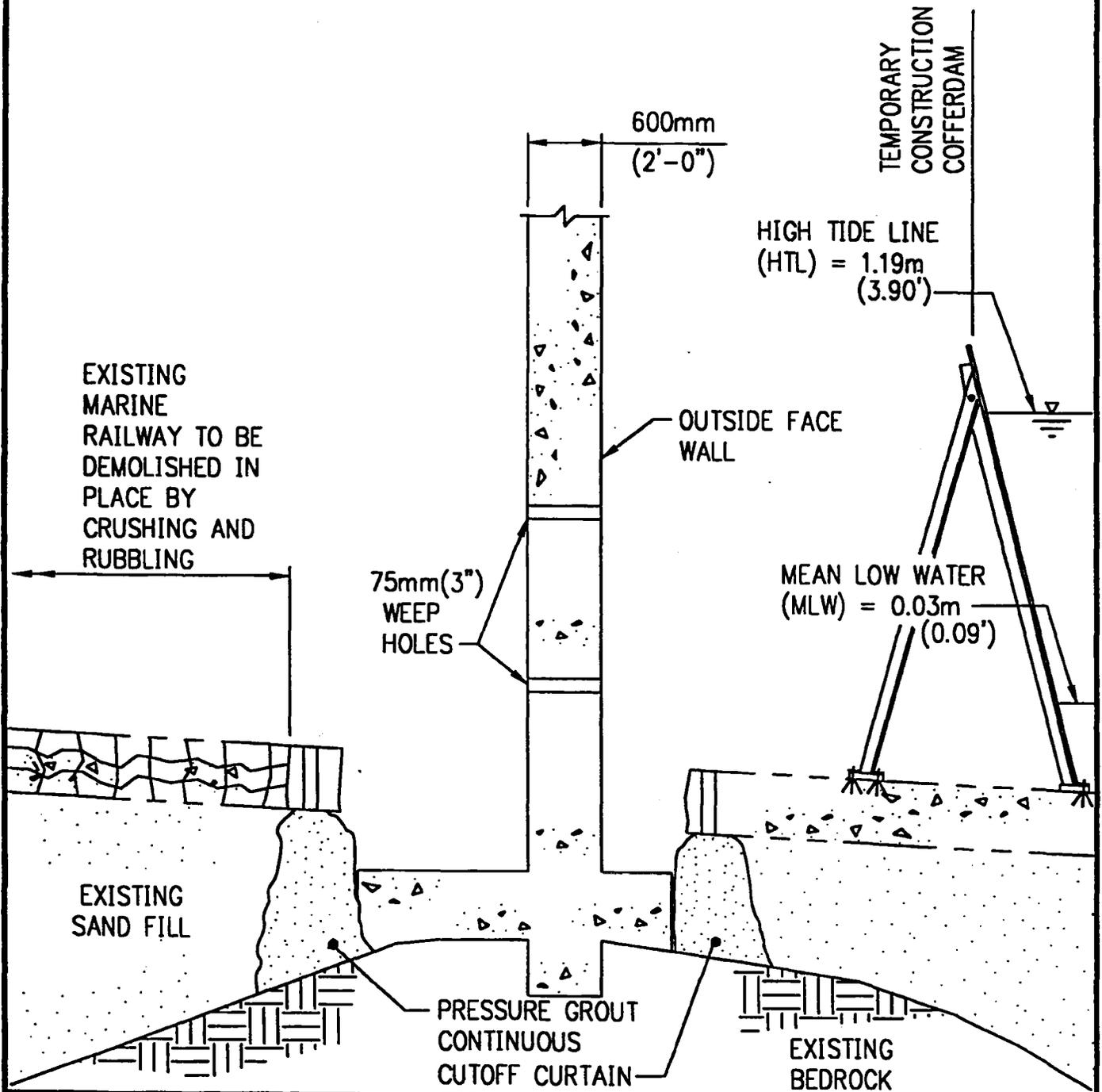
PHASE III CONSTRUCTION
SECTION AT WATER SURFACE

SHEET 8 OF 11

16 JUNE 1997

NOTES:

1. CONSTRUCT FOOTING AND WALL
2. COMMENCE RUBBLING THE EXISTING MARINE RAILWAY.



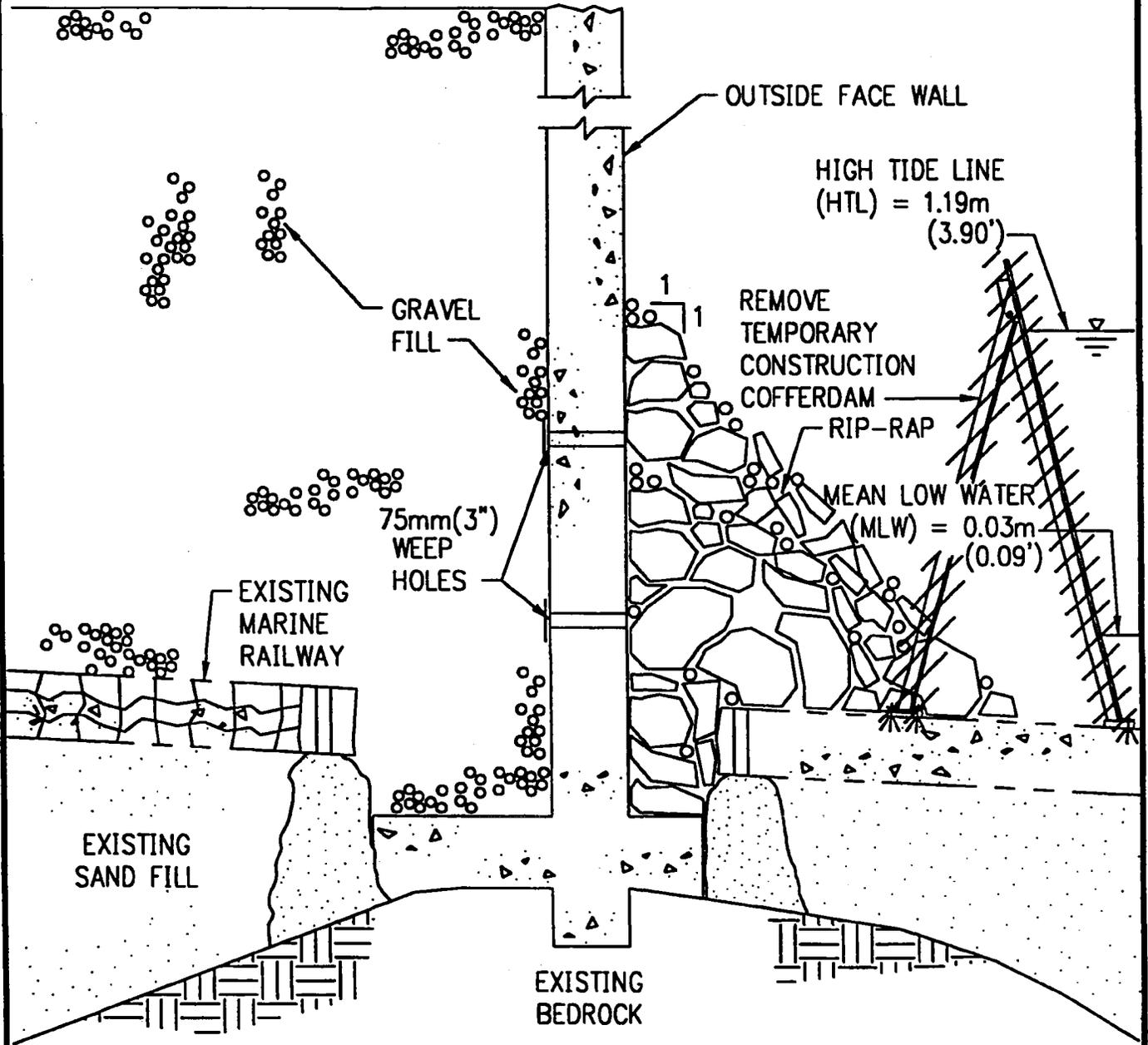
NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

**Burns
&
McDonnell**

**CONTROLLED INDUSTRIAL
FACILITY**
PHASE IV CONSTRUCTION
SECTION AT WATER SURFACE
SHEET 9 OF 11 16 JUNE 1997

NOTES:

1. COMMENCE BACKFILLING LANDWARD SIDE OF WALL WITH CRUSHED AGGREGATE.
2. COMMENCE PLACEMENT OF RIP-RAP ON RIVER SIDE OF WALL TO EL. 1.25m, RIVER FACE TO BE ON A 45° ANGLE OF REPOSE (1:1 SLOPE).
3. REMOVE DEWATERING APPARATUS AND TEMPORARY COFFERDAM.

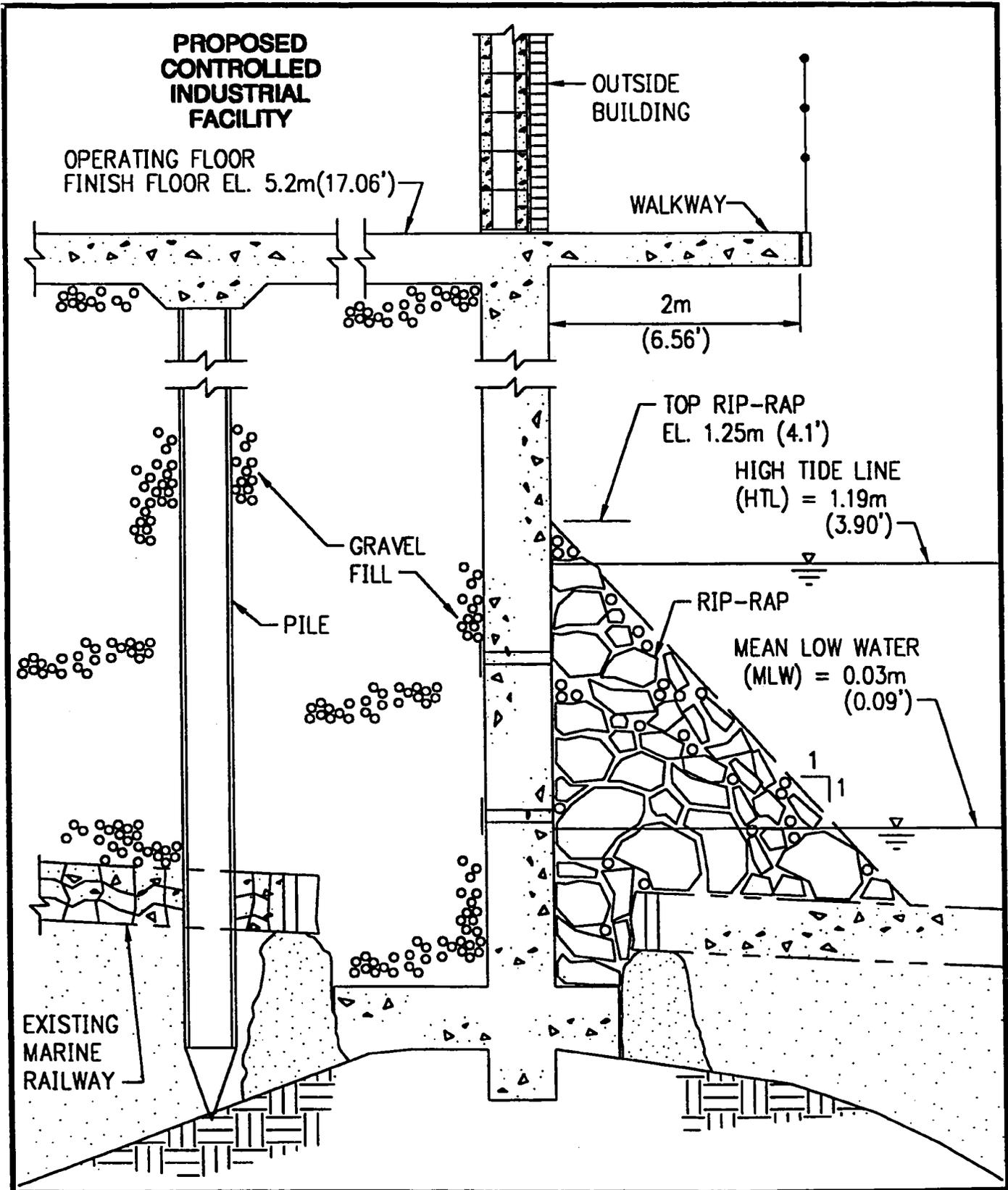


NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

**Burns
&
McDonnell**

**CONTROLLED INDUSTRIAL
FACILITY**

PHASE V CONSTRUCTION
SECTION AT WATER SURFACE
SHEET 10 OF 11 16 JUNE 1997



NAVAL SUBMARINE BASE
NEW LONDON
GROTON, CT

**Burns
&
McDonnell**

CONTROLLED INDUSTRIAL FACILITY

PHASE VI CONSTRUCTION
SECTION AT WATER SURFACE
SHEET 11 OF 11 16 JUNE 1997