



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK NEW YORK 10278-0090

REGULATORY BRANCH

FEB 26 2020

SUBJECT: Letter of Coordination for Department of the Army Permit Application Number NAN-2019-00436-EBR by Stony Brook University – Flax Pond Seawater Intake System

The New York District, U.S. Army Corps of Engineers, has received a request for Department of the Army authorization for the following activity:

APPLICANT: Stony Brook University
Attn: Louis Rispoli
Research & Development Park
Research & Support Services (Building 17), Suite 160
Stony Brook, New York 11794-6016

ACTIVITY: The work includes the installation of a seawater intake system consisting of two (2) 6-inch-wide by 1,340-foot-long submarine intake pipes drilled horizontally from an upland location approximately 4-feet below existing grade extending seaward to two (2) approximately 5-foot-wide by 8-foot-long, 40-square-foot intake structures each comprised of approximately 105-cubic-yards (CY) of pre-fabricated concrete.

The seaward end of the intake pipes will extend up into two (2) removable approximately 3-foot-wide by approximately 5-foot-wide screens with 3.175 mm openings located in the center of an approximately 26-foot-wide by 32-foot-long main float with an 8-foot-wide by 76-foot-long extension extending west and secured by nineteen (19) 15-inch-diameter pilings. Two (2) davits are proposed to be located on the main float. Also proposed is the installation of sixteen (16) 8-foot-wide by 20-foot-long floats, eight (8) per side and each float containing four (4) 3-foot-wide by 8-foot-long by 3-foot-deep Floating Upweller System (FLUPSY) baskets for raising shellfish.

Under the authorization of Nationwide Permit 18, **MINOR DISCHARGES:** The work includes the excavation of approximately 6 CY of existing bottom from an approximately 80-square-foot area to level the pre-fabricated concrete intake structures.

Under the authorization of Nationwide Permit 33, **TEMPORARY CONSTRUCTION, ACCESS, AND DEWATERING:** The work includes coffer damming an approximately 50-foot-wide by 50-foot-long area for the purposes of creating a temporary directional

SUBJECT: Letter of Coordination for Department of the Army Permit Application Number NAN-2019-00436-EBR by Stony Brook University – Flax Pond Seawater Intake System

- 2 -

drilling bore receiving pit located at the site of the seawater intake structure and the deployment of an approximately 390-linear-foot temporary turbidity curtain located outside of the perimeter of the temporary cofferdam.

The proposed structures will extend a maximum of approximately 165 linear feet from the plane of Average Low Water into Flax Pond.

The intake structure screens will be located a minimum of approximately 4-feet above the existing bottom elevation.

The purpose of this project is to provide seawater for scientific research and to support a shellfish hatchery.

WATERWAY: Flax Pond, a tributary of Long Island Sound

LOCATION: 15 Shore Drive, Village of Old Field, Town of Brookhaven, Suffolk County, New York

As this is minor in nature, authorization may be by Letter of Permission. This is in accordance with current Federal Regulations governing work in navigable waters of the United States. To accomplish the coordination required, prior to the issuance of a Letter of Permission, your review of the enclosed drawings is requested.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended (16 U.S.C. 1465 (c)(3)(A)), the applicant has certified that the activity complies with and will be conducted in a manner that is consistent with the approved state coastal zone management program.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

REGULATORY BRANCH

FEB 26 2020

SUBJECT: Letter of Coordination for Department of the Army Permit Application Number
NAN-2019-00436-EBR by Stony Brook University – Flax Pond Seawater Intake System

- 3 -

To allow for the timely processing of the subject application, your comments are requested within 20 days of the date of this letter. If you have any questions, please contact William T. Bruno, of my staff, at (917) 790-8516.

Sincerely,



Ronald R. Pinzon
Chief, Eastern Section

Enclosures

SCALE: N.T.S.



C-005

SITE KEY PLAN

Date:	January 24, 2020
Checked By:	JMZ Project No. 1728.

Seal:

Architect:
 Architects and
Planners, P.C.
1 Union Drive
Setauke, NY 11733

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

LAZ Architects and Planners, P.C.

Civil Engineer:

**M.J. Engineering
and Land Surveying.**

10

100

Age Group	Percentage of Respondents
18-29	85%
30-49	80%
50-69	75%
70+	70%

1

10

10

8

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1

1

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1

100

100

10

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Seal:

1

1

10

Date: January 24, 2020

JMZ

Product No.

Checked By:	1728.
MCD	

CITE KEY DIA

THE

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C-005

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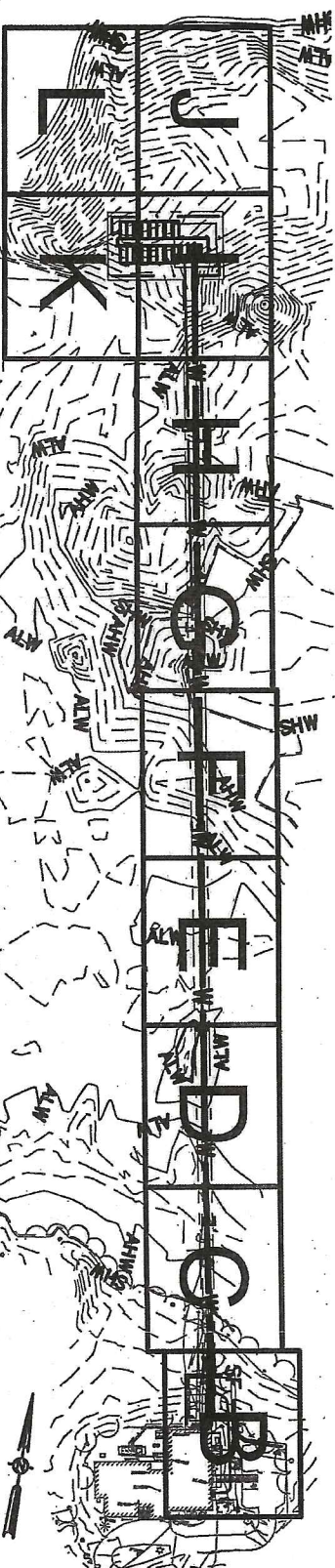
C

PROPOSED LEGEND:

- W INTAKE/DISCHARGE LINE
- AHW APPARENT MEAN HIGH TIDE
- ALW APPARENT MEAN LOW TIDE
- SHW APPARENT SPRING HIGH TIDE
- SF SILT FENCE
- WETLAND BOUNDARY
- CONTRACT LIMIT LINE

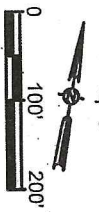
NOTES:

1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.
2. THE HORIZONTAL STATIONING SHOWN FOR THE WATER DISCHARGE LINE IS AT THE CENTER LINE OF THE PIPE.
3. CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIREMENTS THAT MAY BE NECESSARY FOR THE COMPLETION OF THE WORK SHOWN. PROVIDE THE QUALITY CONTROL SUBMITTALS IN ACCORDANCE WITH SPECIFICATION 310000, SECTION 1.3 (C). INSTALLATION OF SHEETING AND SHORING SHALL NOT COMMENCE UNTIL CALCULATIONS AND DRAWINGS HAVE BEEN REVIEWED.
4. FOR BIDDING PURPOSES, ASSUME DEWATERING OPERATIONS ARE REQUIRED AT THE BORE PIT AND RECEIVING PIT. PROVIDE DEWATERING OPERATIONS PER SPECIFICATION SECTION 310000. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MANAGING WATER THAT MAY BE PRODUCED FROM DEWATERING OPERATIONS.
5. CONTRACTOR TO PROVIDE A DRILLING CONTINGENCY PLAN FOR AREAS OF FRAC OUT OR DISTURBANCE DURING CONSTRUCTION ACTIVITIES.
6. WETLAND BOUNDARY WAS DELINEATED BY THE NYSDEC AND FLAGS WERE FIELD LOCATED BY CONVENTIONAL LAND SURVEY MEANS DURING AUGUST OF 2018 BY MJ ENGINEERING AND LAND SURVEYING, P.C.
7. REFER TO SPECIFICATION SECTION 310000 FOR DEWATERING PROCEDURES. CONTRACTOR SHALL UTILIZE HAYBALE ENCLOSURE WITH FILTER FABRIC OR UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AROUND BORING PIT ASSOCIATED WITH UTILITY INSTALLATIONS.
9. CONTRACTOR SHALL RESTORE ALL AREAS WITH CONTRACT LIMIT LINE THAT ARE DISTURBED OR DAMAGED CONSTRUCTION ACTIVITIES.
10. FLAX POND IS DESIGNATED AN "ESSENTIAL FISH HABITAT". REFER TO PERMIT FOR SEASONAL RESTRICTIONS.
11. CONTRACTOR SHALL COMPLY WITH CONDITIONS OF THE USACE AND NYSDEC PERMITS.



KEY PLAN

1 SCALE: 1" = 200'



Project:
Stony Brook University
Expand and Upgrade
Plax Pond Facility,
Phase 2 Site Work
SUCF Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
MJZ Architects and Planners, P.C.

Civil Engineer:
M.J. Engineering and Land Surveying, P.C.

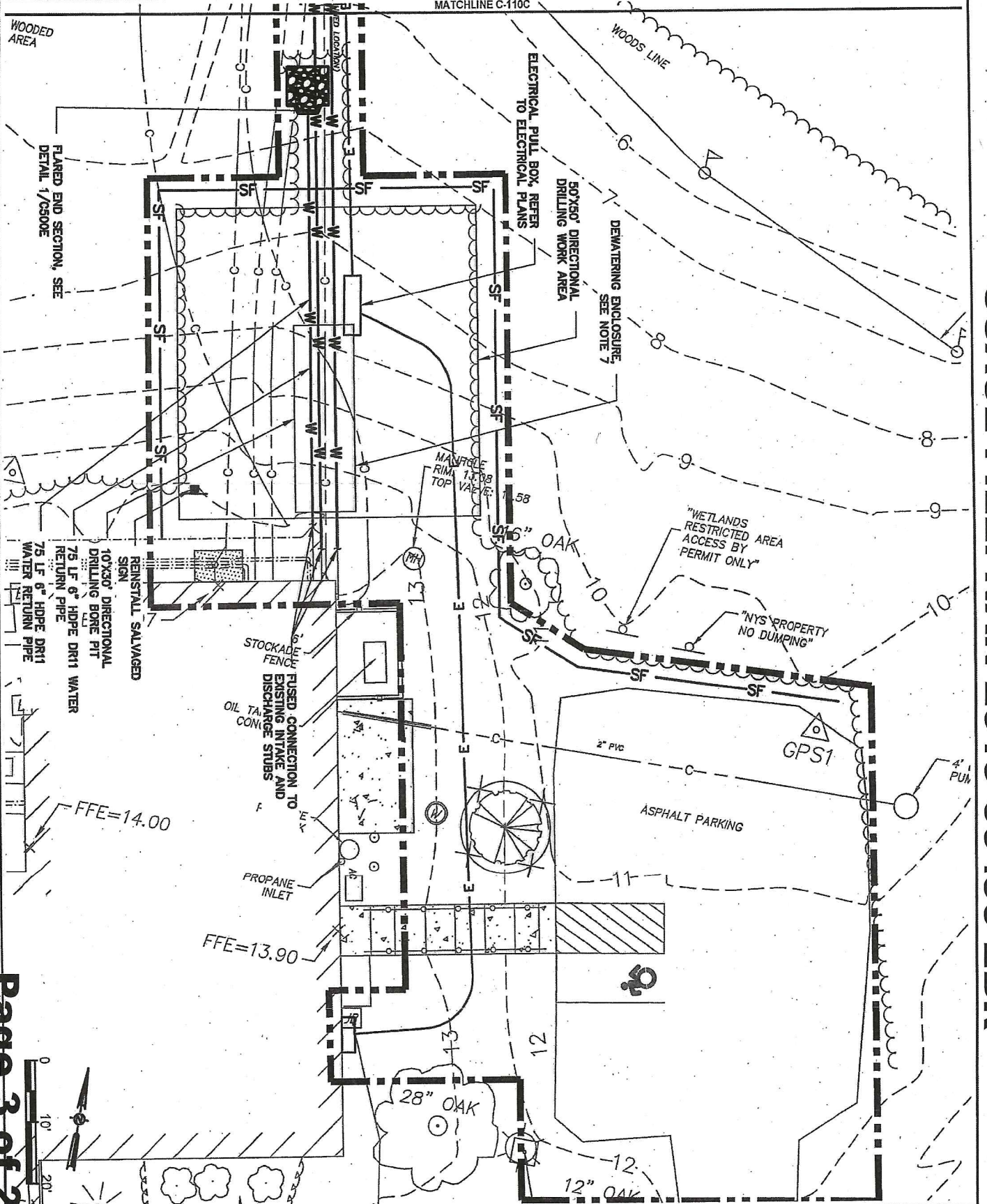


Drawn:
Checked by:
Project No.
1728

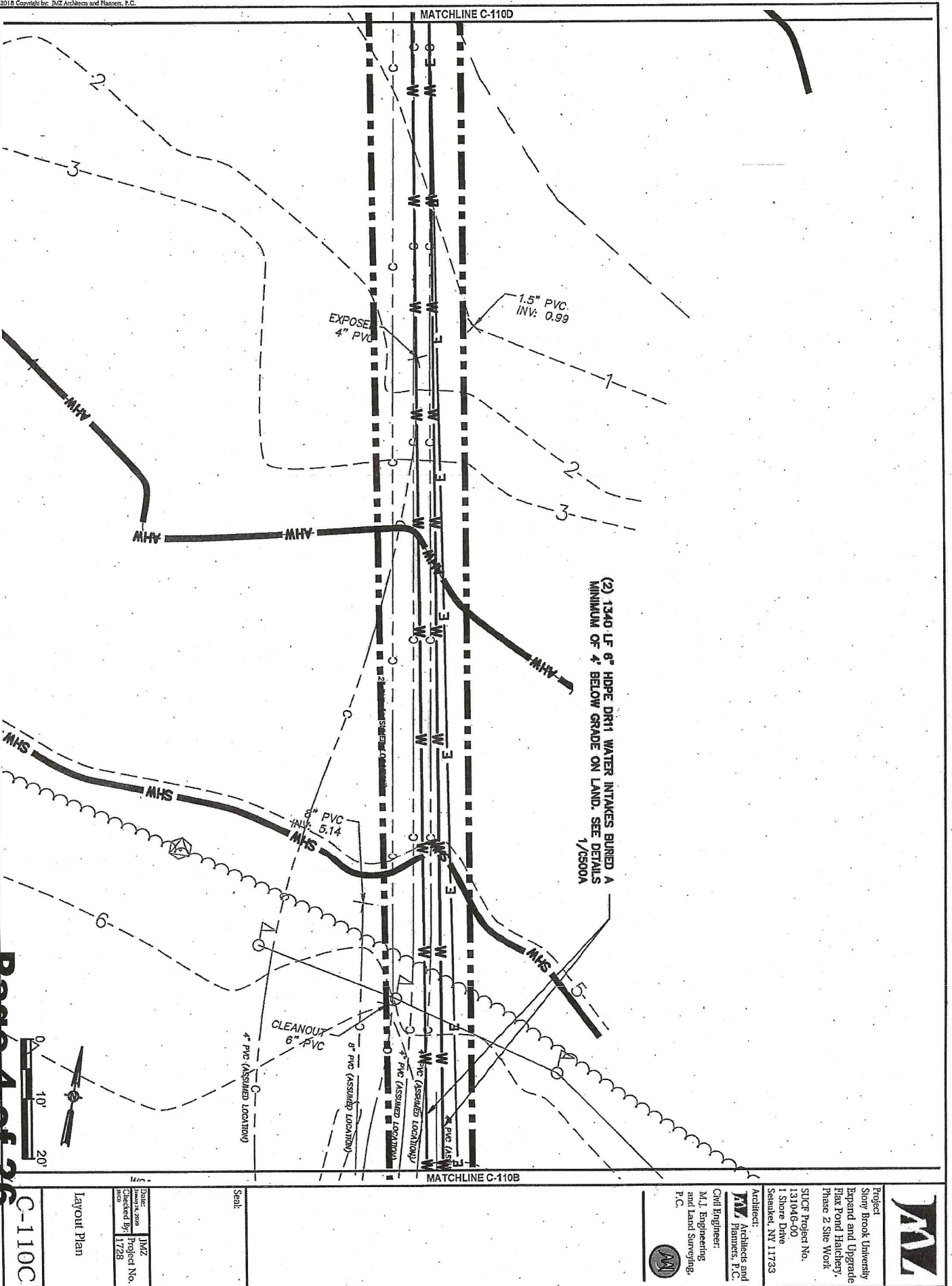
Layout Notes,
Legend, & Key
Plan

C-110A

2018 Copyright by JNZ Architects and Planners, P.C.



	Project Stony Brook University Expand and Upgrade Raritan Hatchery, Phase 2 Site Work	SUCF Project No. 131046-00 1 Shore Drive Secaucus, NY 11733	Architect: JNZ Architects and Planners, P.C.	Civil Engineer: M.J. Engineering and Land Surveying, P.C.		Layout Plan C-110B	Drawn: JNZ Checked: JNZ Project No. 11728	Scale:	
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Project
Stony Brook University
Expand and Upgrade
Black Point Hatchery,
Phase 2 Site Work

SUCR Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
MZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

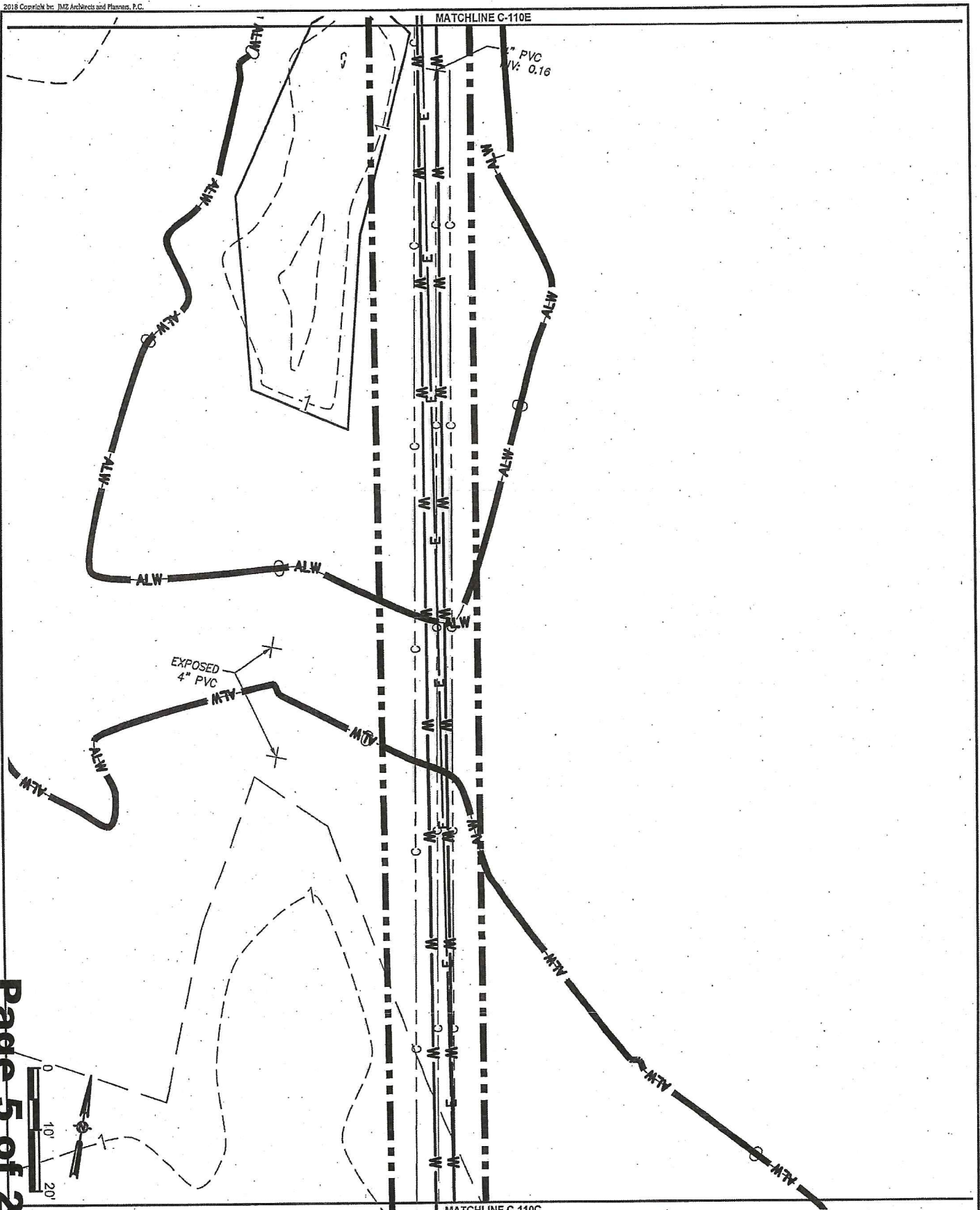


Seal

Date: 11/14/2019
Checked By: JIMZ
Project No. 1728

Layout Plan

C-110C



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SICF Project No.
131046-00
1 Shore Drive
Selden, NY 11733

Architect:
JNZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

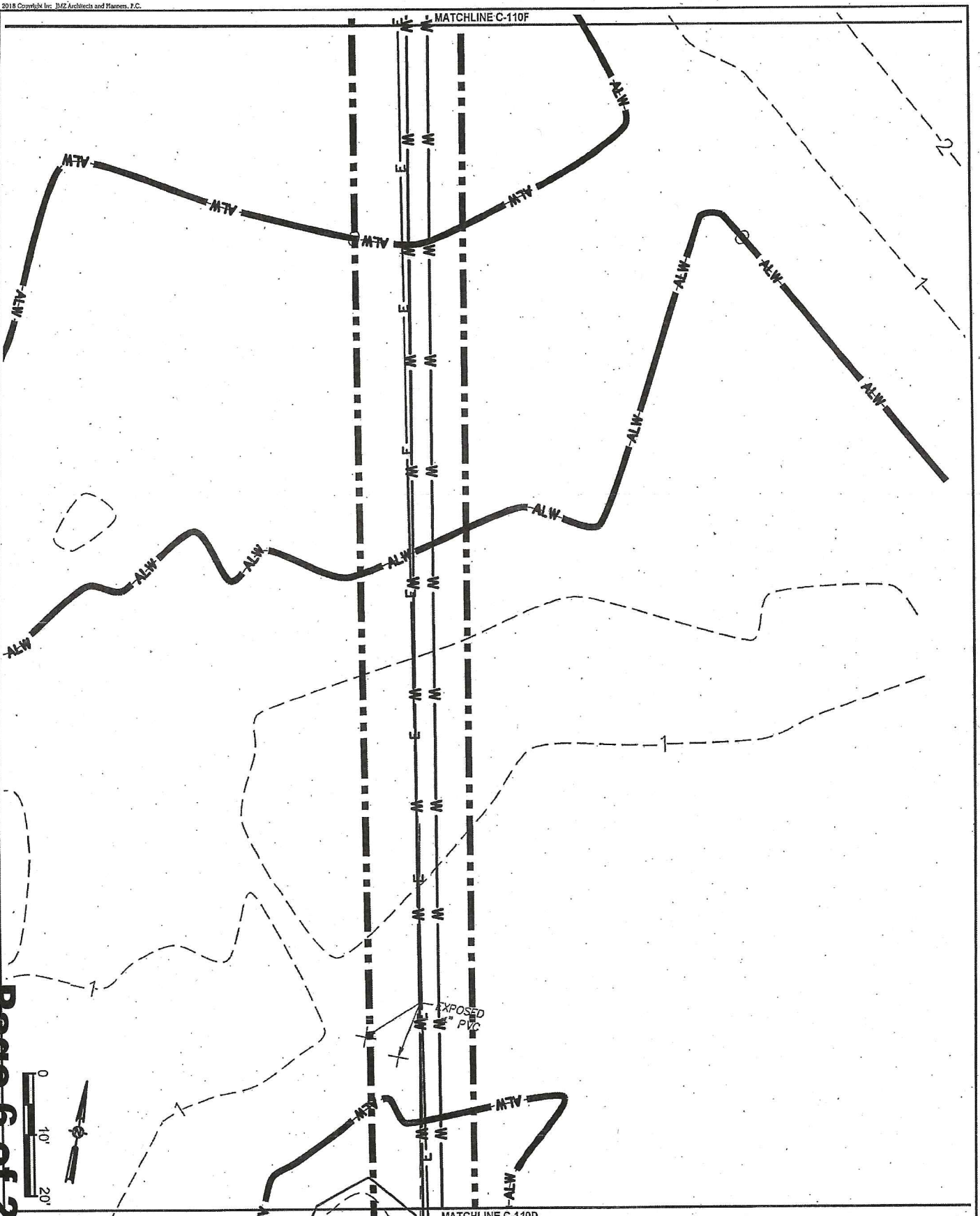


Seal:

Date:
1/2/2020
Checked By:
1728
Project No.

Layout Plan

C-110D



Project
Stony Brook University
Expand and Upgrade
Plax Pond Hatchery,
Phase 2 Site Work

SUCR Project No.
131046-00
1 Slice Drive
Setauket, NY 11733

Architect:
MZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

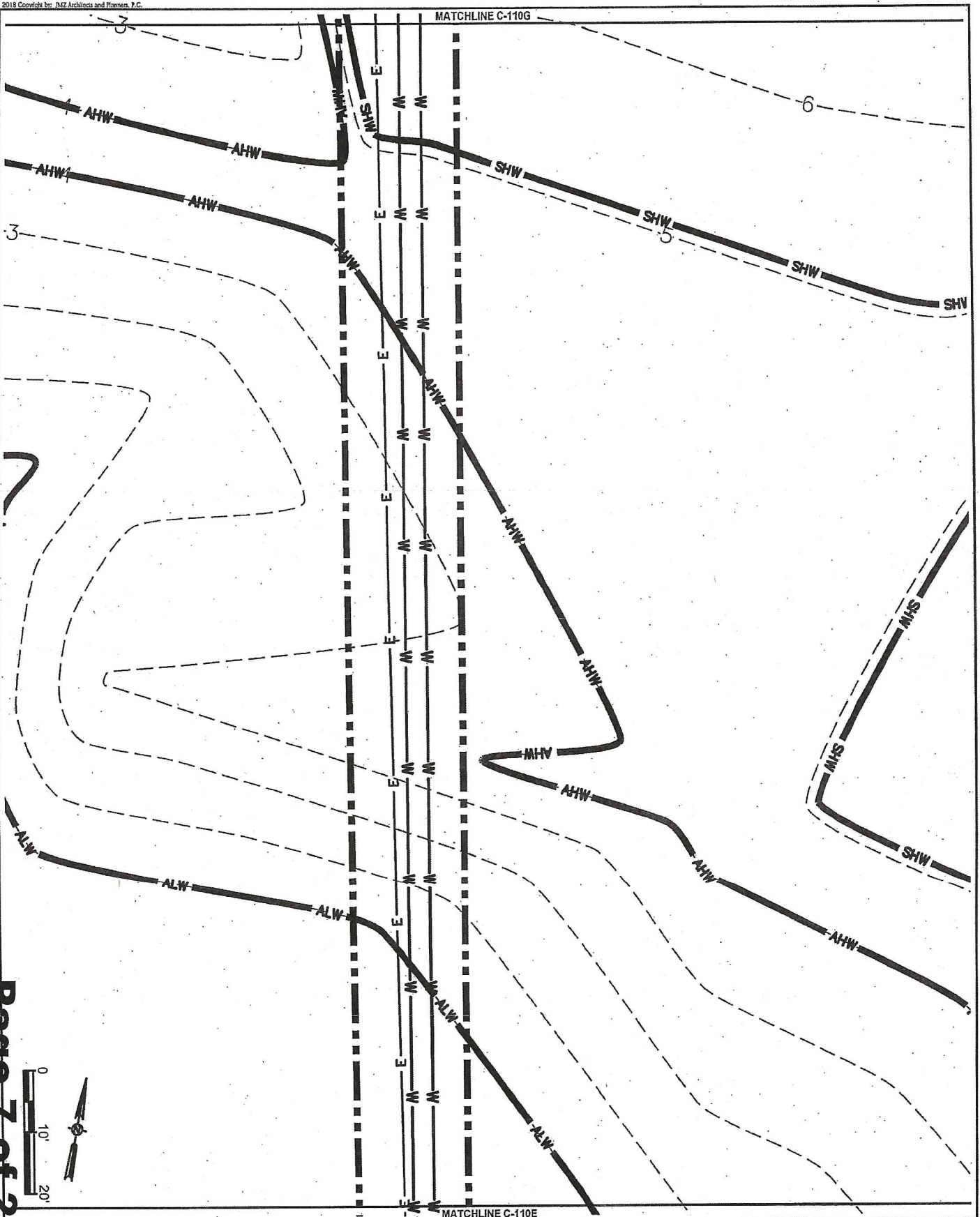


Seal:

Checked By: JMZ
Project No.
1728

Layout Plan

C-110F



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SURF Project No.
131046-50
1 Shore Drive
Saratoga, NY 11773

Architect:
MZ
Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

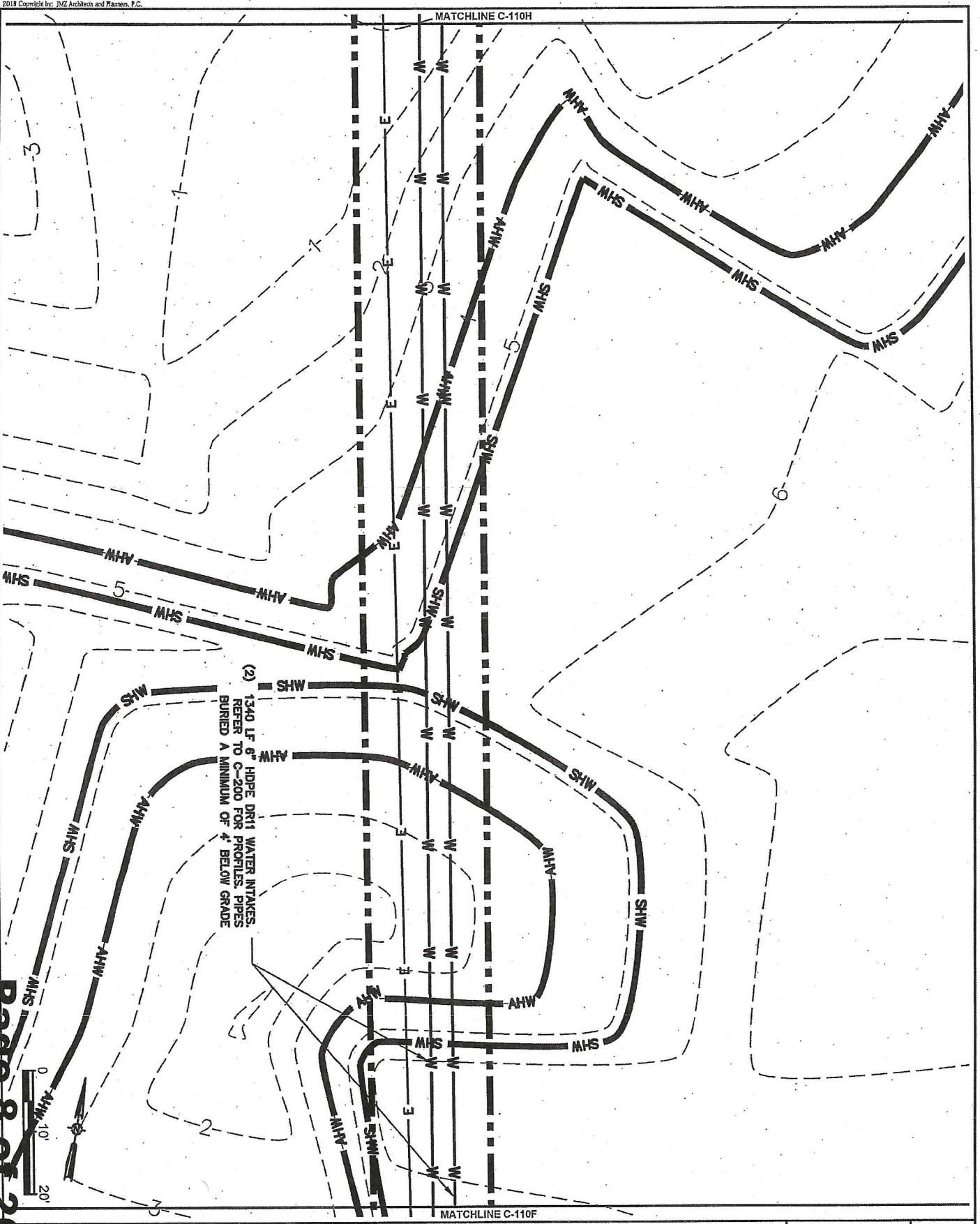


Seal:

Date:
January 2, 2018
Checked by:
1728

Layout Plan

C-110F



Project
Stony Brook University
Expand and Upgrade
Rias Pond Hatchery,
Phase 2 Site Work

SUCT Project No.
131046-00

1 Shore Drive
Staten Island, NY 11733

Architect:
JWZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

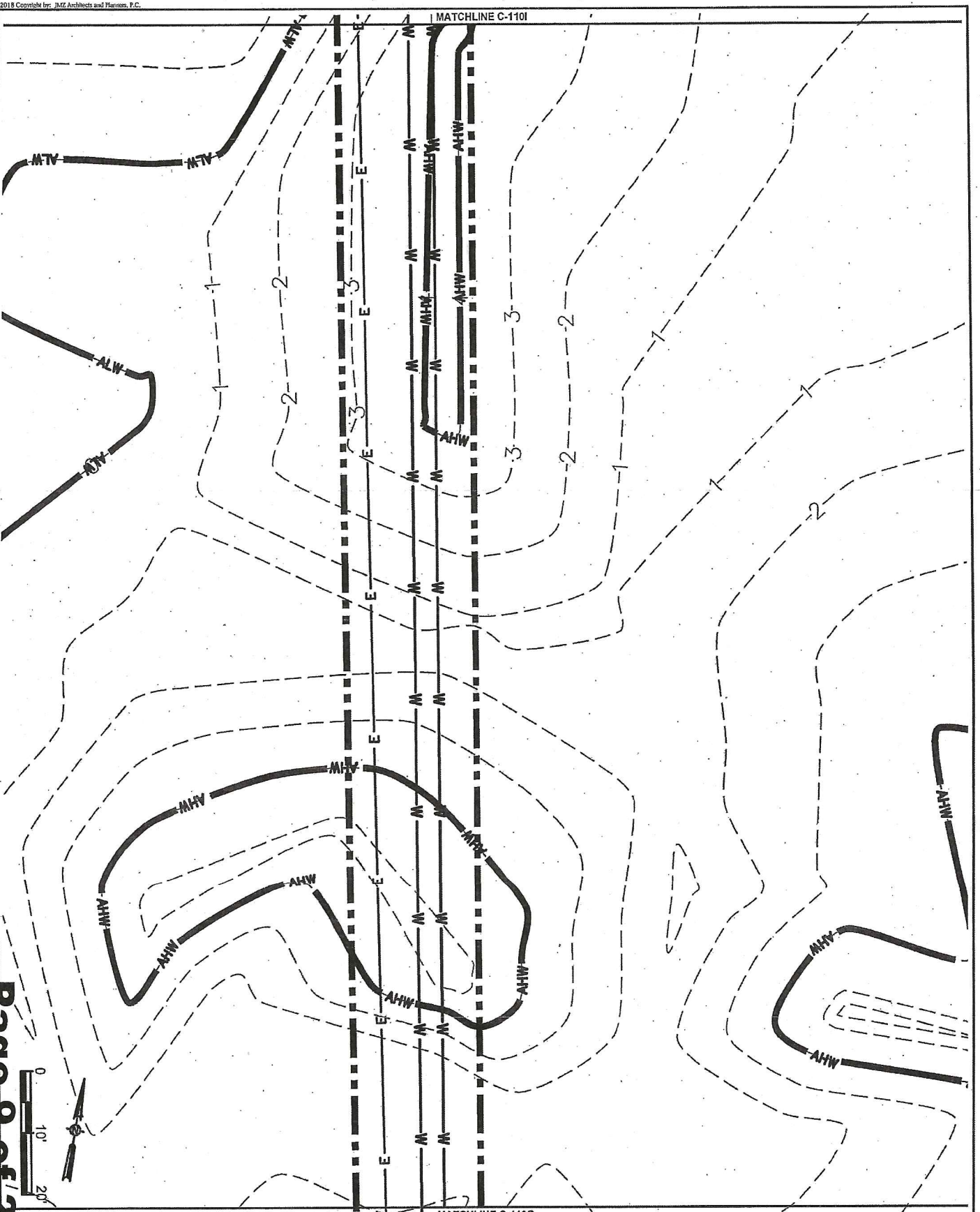


Seal:

Drawn by: JWZ
Checked by: 11728
Project No.

Layout Plan

C-110G



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUICF Project No.
131046-00
1 Shore Drive
Seabrook, NY 11733

Architect:
JMZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

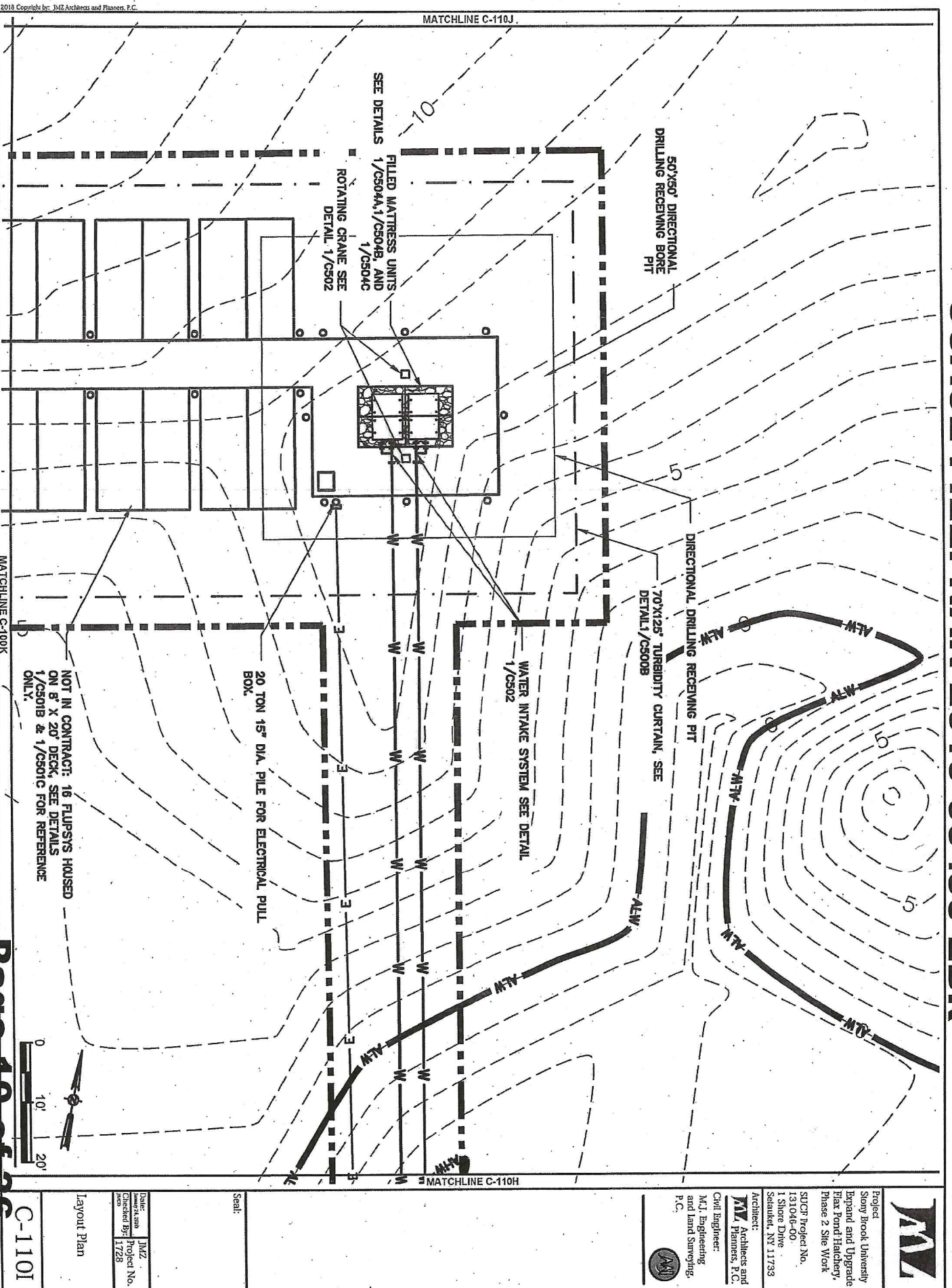


Seal:

Date: 11/10/2019
Checked By: 1728
Project No.

Layout Plan

C-110H



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SICOF Project No.
131046-00
1 Shore Drive
Salisbury, NY 11733

Architect:
MIZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.



Seal:

Date: 1/1/2020
Checked By: 1/28
Project No.

Layout Plan

C-110I



C-1201

Geometric Layout Plan

January 24, 2020	Project No. 1728
Checked By: JACD	

Seal:

MJ Architects and Planners, P.C.
Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.



1 Shore Drive
Setauket, NY 11733

SUCF Project No.

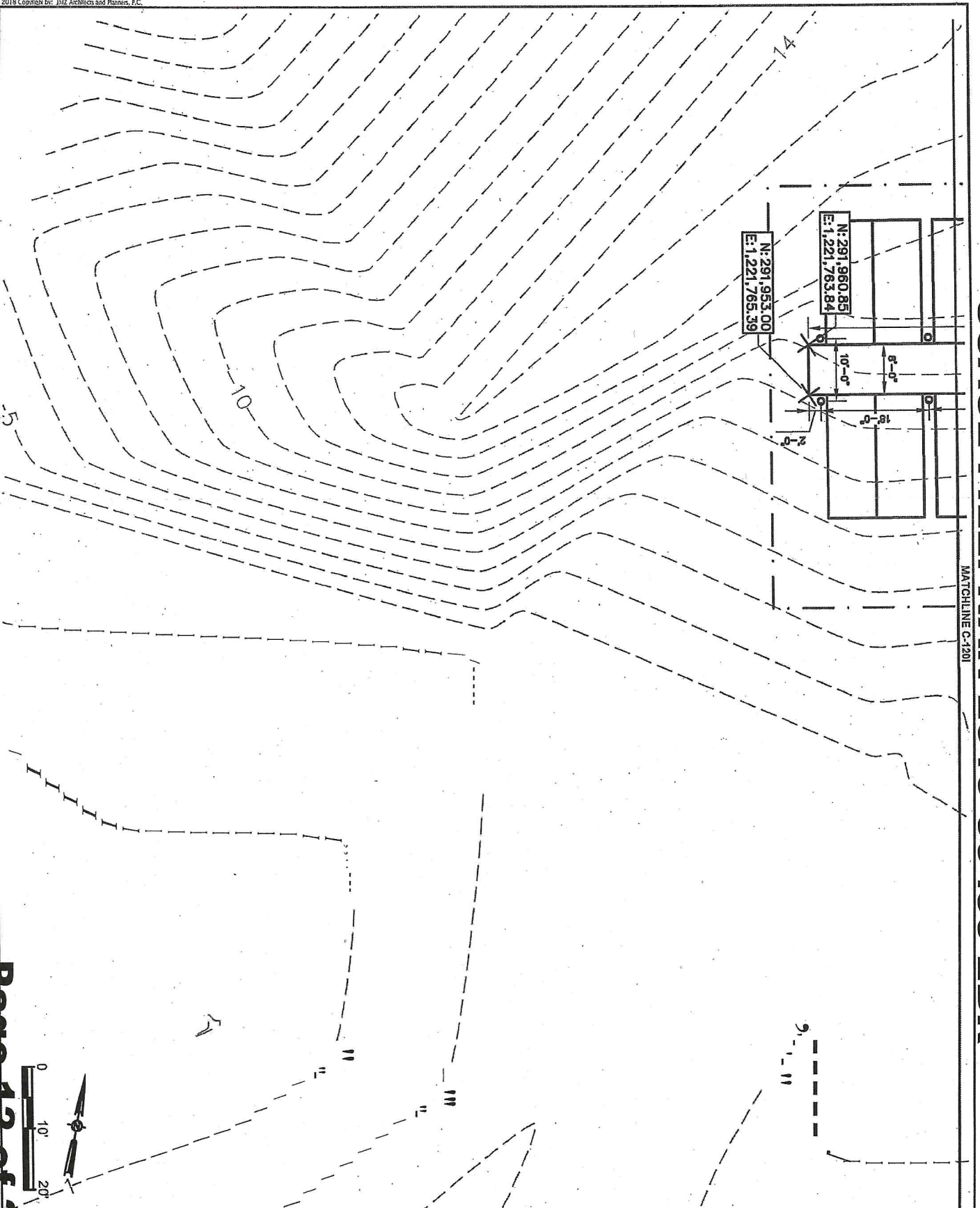
Flax Pond Hatchery, Phase 2 Site Work

Stony Brook University

W

USACE FILE: NAN-2019-00436-EBR

MATCHLINE C-1201



Project:
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SICF Project No.
131046-00
1 Shore Drive
Seaside, NY 11733

Architect:
M/J Architects and
Planners, P.C.

Civil Engineer:

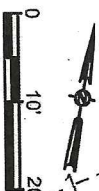
M.J. Engineering
and Land Surveying,
P.C.



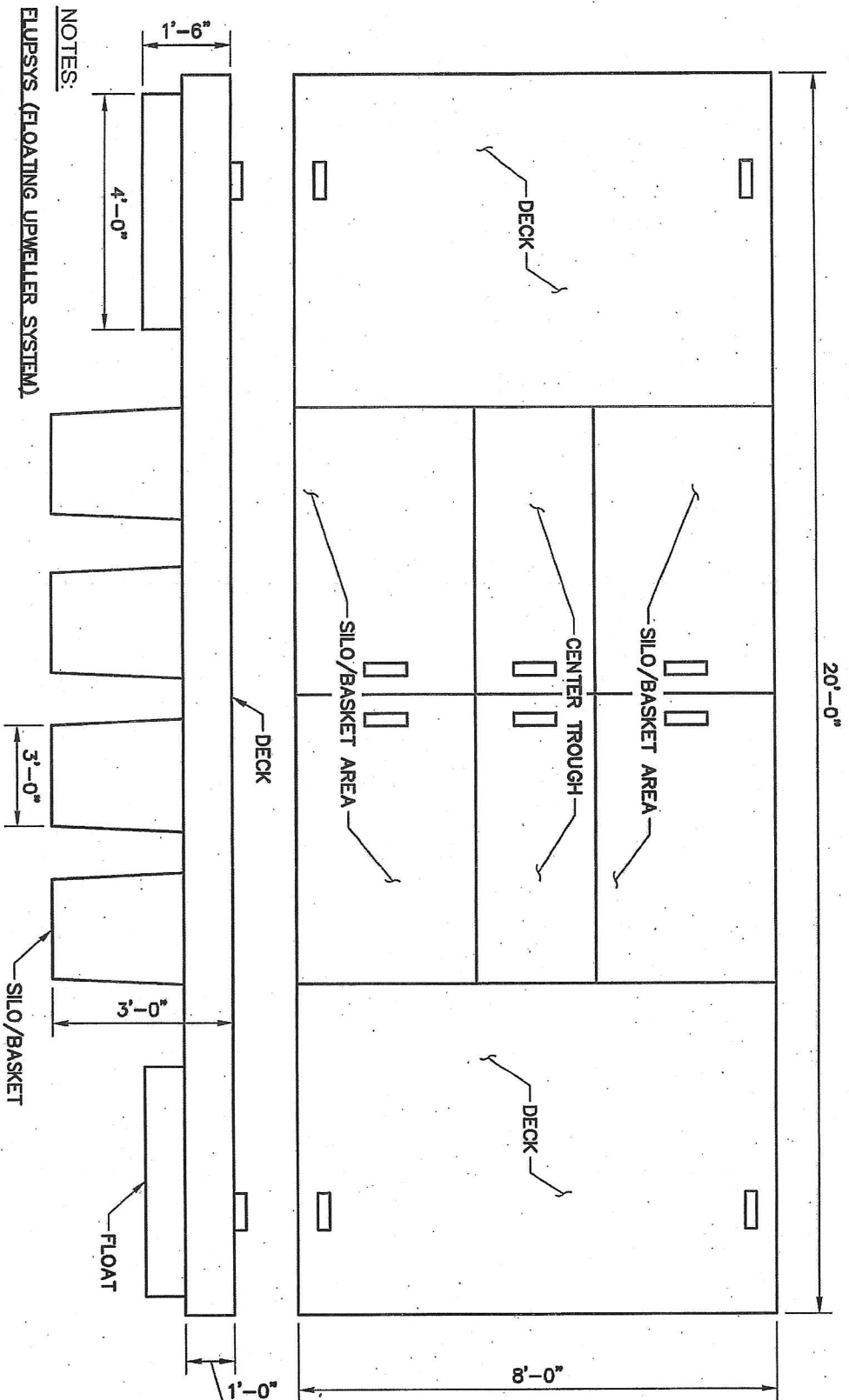
Seal:

Drawn by: **JMZ**
Checked by: **JMZ**
Project No.
1728

Geometric Layout
Plan



C-120K



NOTES:

FLUPSYS (FLOATING UPWELLER SYSTEM)

BASIS OF DESIGN: HOOPERS ISLAND
OYSTER COMPANY - FLOATING
UPWELLER SYSTEM

837 CHESAPEAKE DRIVE, UNIT B
CAMBRIDGE, MD 21613
T: 410-397-3664

1 FLUPSEY DETAIL - REFERENCE ONLY NOT IN CONTRACT
SCALE: N.T.S.



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUCF Project No.
131046-00
1 Shore Drive
Seaside, NY 11733

Architect:
MVA Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.



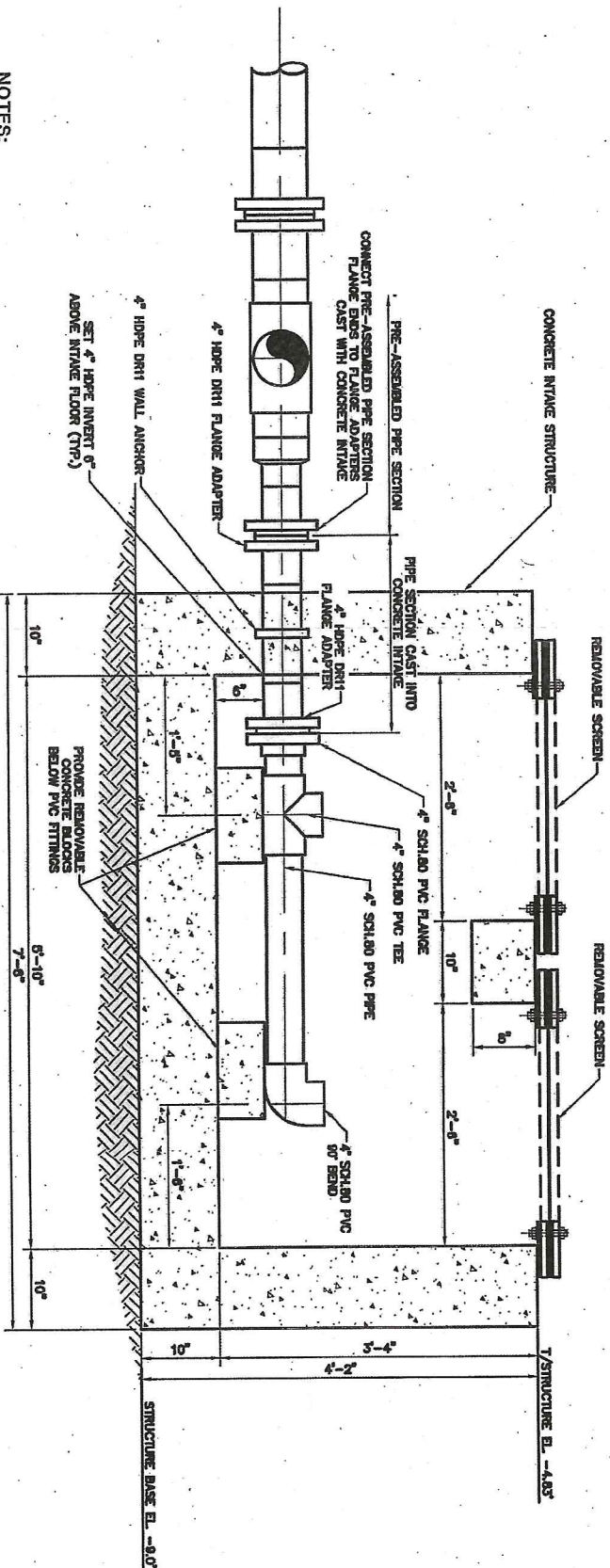
Seal:

Date: 11/11/2019
Checked By: 11/28/2019
Project No.

Pile Dock Details

C-501C





NOTES:

1. APPROX. VOLUME OF EACH INTAKE STRUCTURE: 105 CY
2. APPROX. VOLUME OF EXCAVATION: 6 CY
3. APPROX. FOOTPRINT OF EACH INTAKE STRUCTURE: 40 SQFT

SECTION

1 SCALE: N.T.S.



Project:
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUCF Project No.
131046-00
1 Shore Drive
Seamless, NY 11733

Architect:
M.V. Architects and
Planners, P.C.

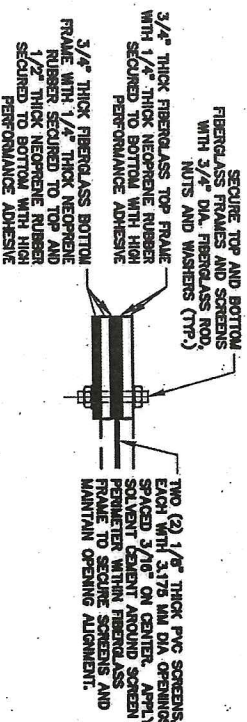
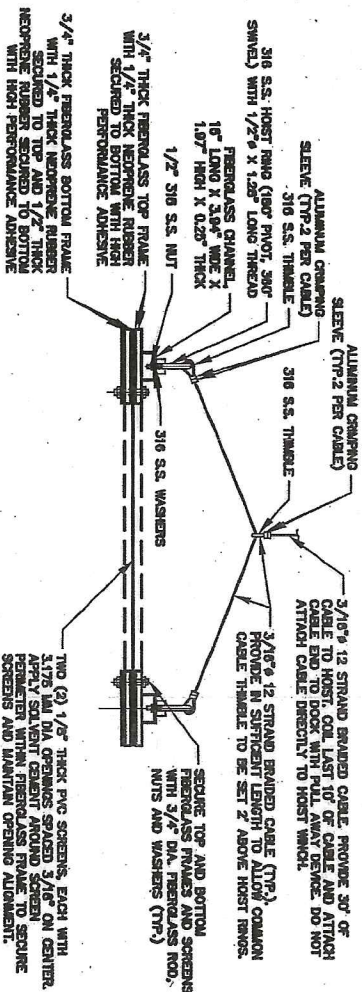
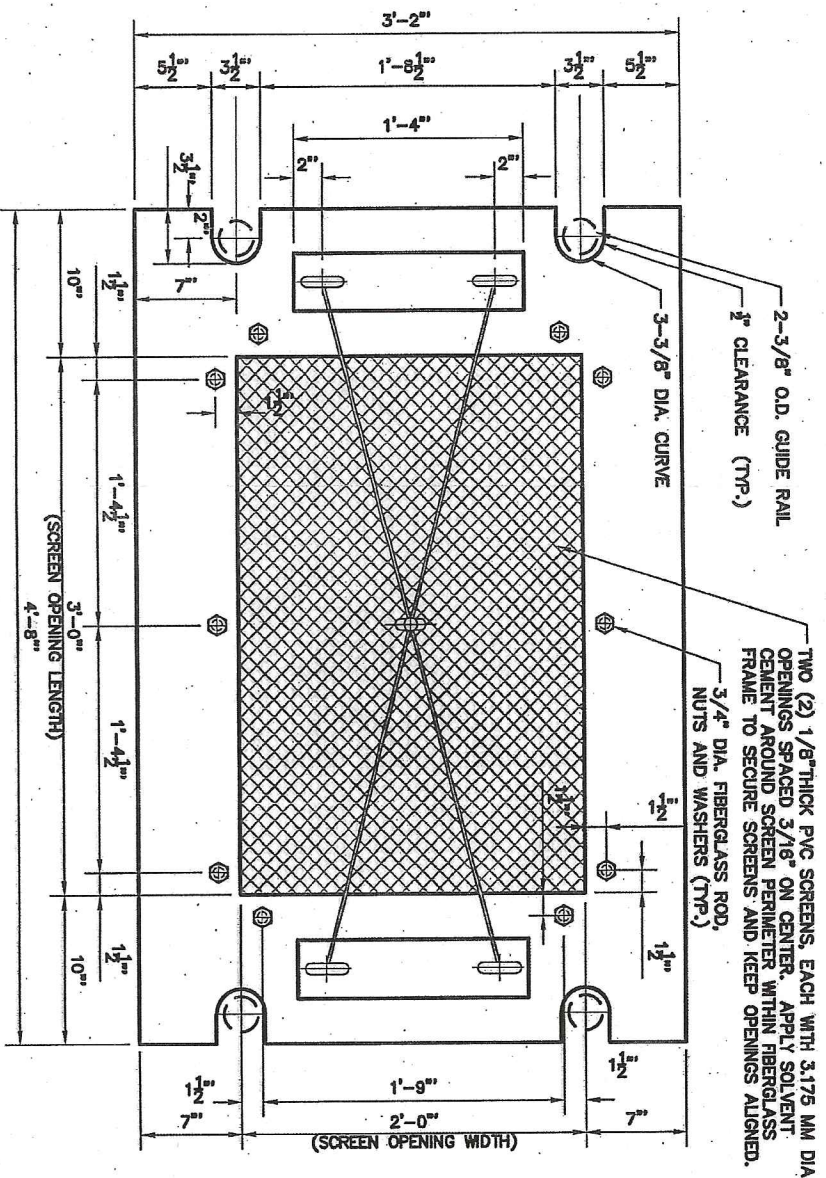
Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.



Seal:

Date: 10/1/2019
Checked By: 1728
Project No.
Seawater Intake
Section

C-503B



4 REMOVABLE SCREEN DETAILS

SCALE: N.T.S.



Project
Stony Brook University
Bipartite and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUCF Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
M&J Architects and
Planners, P.C.

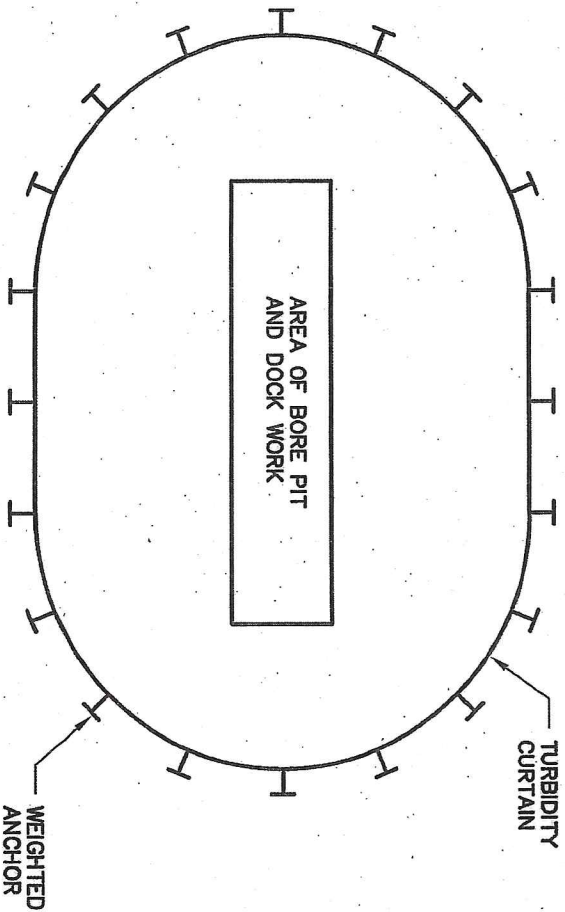
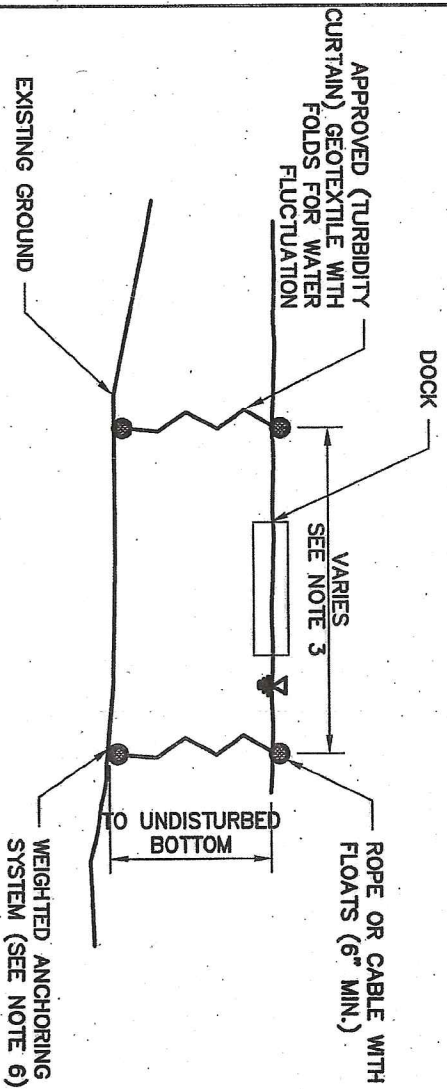
Civil Engineer:
M&J Engineering
and Land Surveying,
P.C.



Seal:

Drawn: JIMZ
Checked By: JIMZ
Project No.
1728
Seawater Intake
Details

C-503D



NOTES:

1. TURBIDITY CURTAIN SHALL BE A MAXIMUM OF 100' LONG FOR EACH SECTION OF CURTAIN REQUIRED. END SECTIONS SHALL TERMINATE 10' BEYOND THE LIMIT OF DISTURBANCE.
2. THE TURBIDITY CURTAIN SHALL BE PLACED AS CLOSE TO THE WORK AS POSSIBLE WITHOUT INTERFERING WITH CONSTRUCTION OPERATIONS.
3. THE CONTRACTOR SHALL CONTINUALLY MONITOR THE INSTALLATION, TAKING INTO ACCOUNT WEATHER PATTERNS AND PREVAILING WIND DIRECTIONS THAT MAY AFFECT WATER LEVELS, VELOCITY AND MOVEMENT OF THE TURBIDITY CURTAIN.
4. THE TURBIDITY CURTAIN SHALL REMAIN IN THE WATER A MINIMUM OF 24 HOURS AFTER COMPLETION OF WORK TO MINIMIZE ESCAPE OF SEDIMENTS INTO THE WATERWAY.
5. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE THAT ALLOWS THE CURTAIN TO CONFORM TO THE CONTOUR OF THE BOTTOM ON THE WATERWAY.

1 TURBIDITY CURTAIN

SCALE: NTS



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUCF Project No.
131045-00
1 Shore Drive
Seaside, NY 11733

Architect

M&Z Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

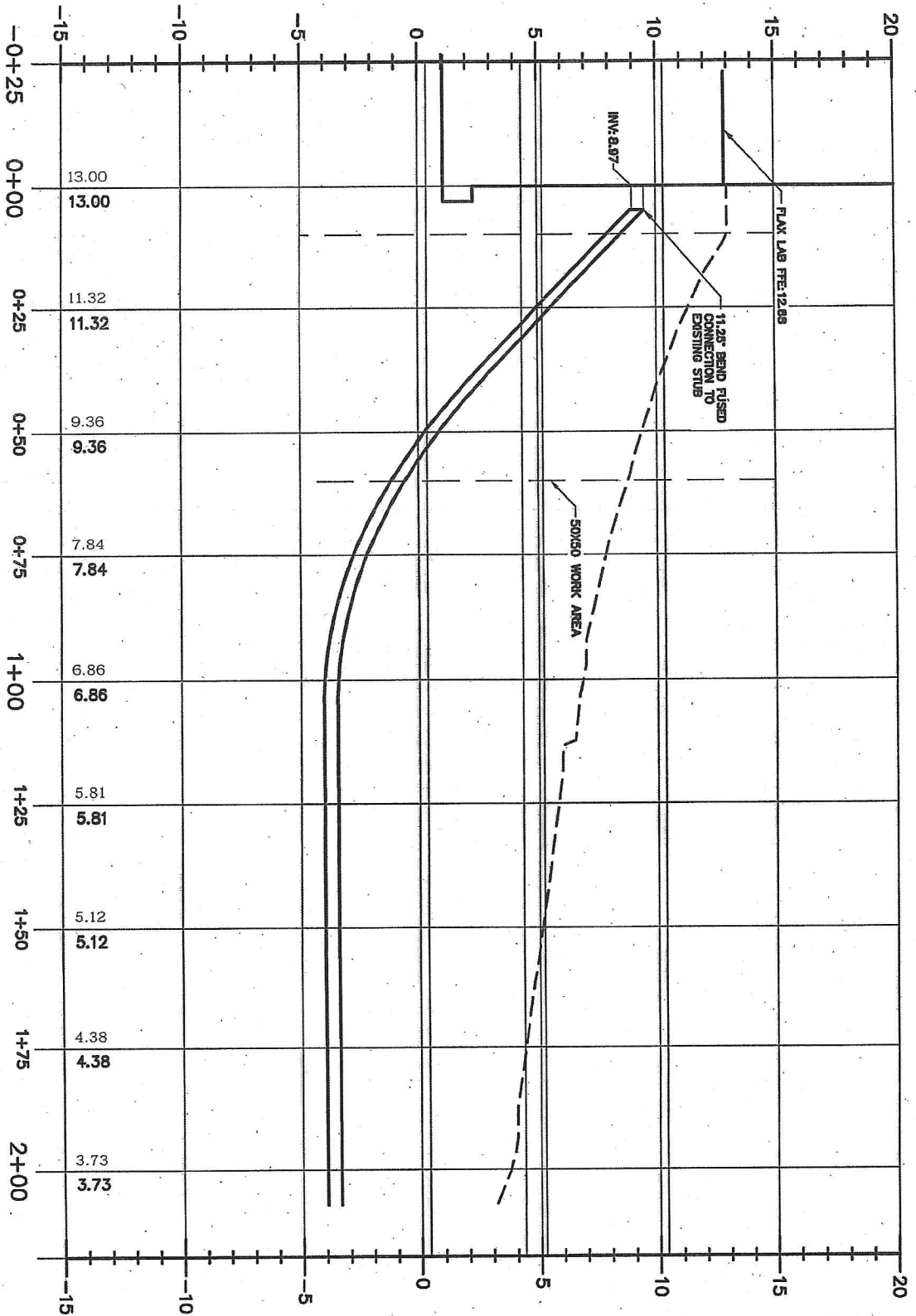


Seal:

Date: 1/1/20
Checked By: 1728
Project No.

Civil Details

C-500B



6" DR-11 HDPE INTAKE PIPE PROFILE

1

SCALE: HORIZ: 1"=20', VERT: 1"=5'

NOTES:

1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUCC Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
JMZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

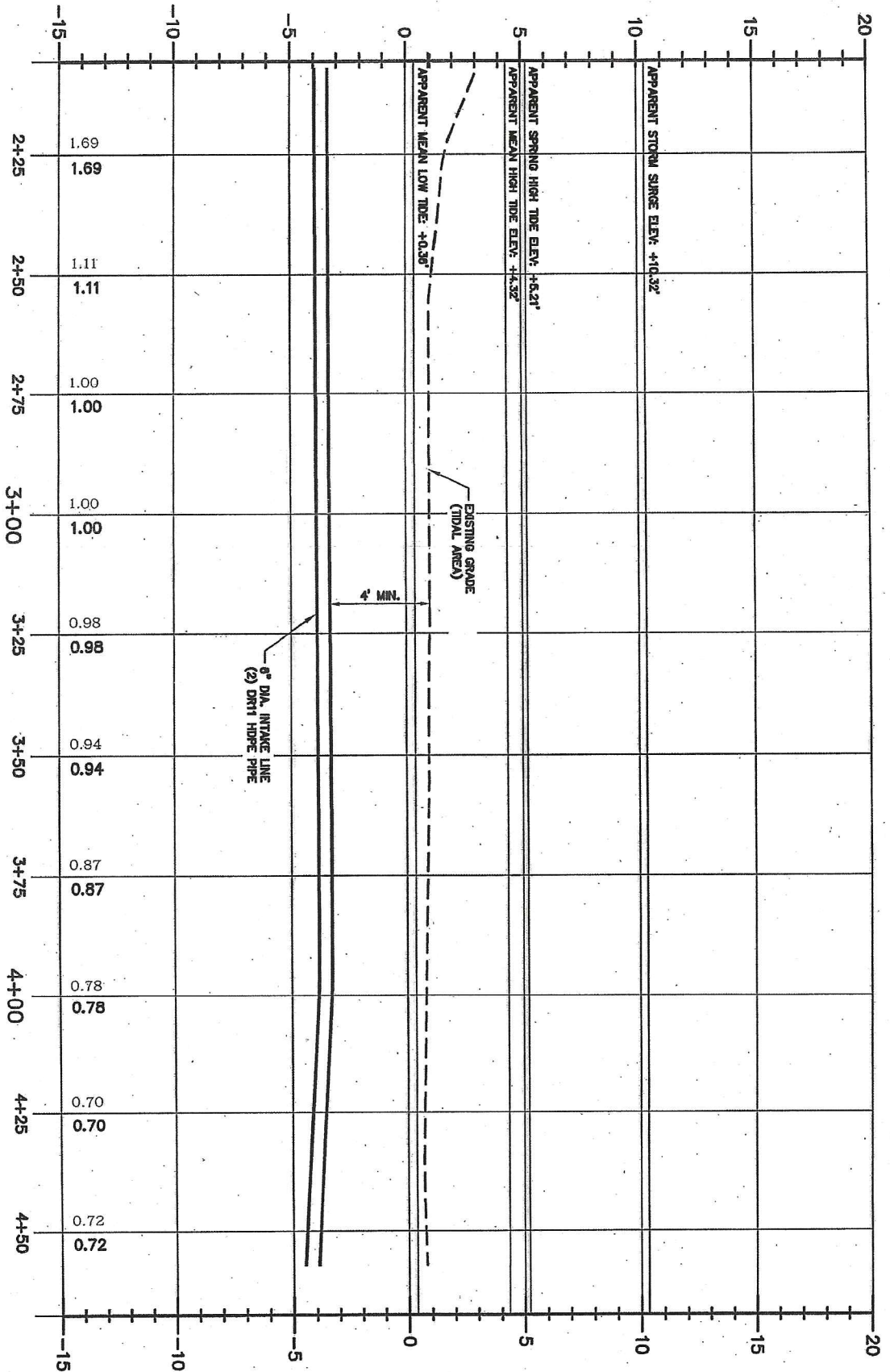


Seal:

DRAWN BY: JMZ
CHECKED BY: 1728
PROJECT NO.

Seawater
Intake/Discharge
Profile

C-200



6" DR-11 HDPE INTAKE PIPE PROFILE

1 SCALE: HORIZ: 1"=20', VERT: 1"=5'

NOTES:
1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work
SLICE Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
MVA Architects and Planners, P.C.
Civil Engineer:
M.J. Engineering and Land Surveying, P.C.



Seal:

Date: 1/17/28
Checked By: 1728
Project No.

Seawater Intake/Discharge Profile

C-201



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work
SUCF Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
JMZ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

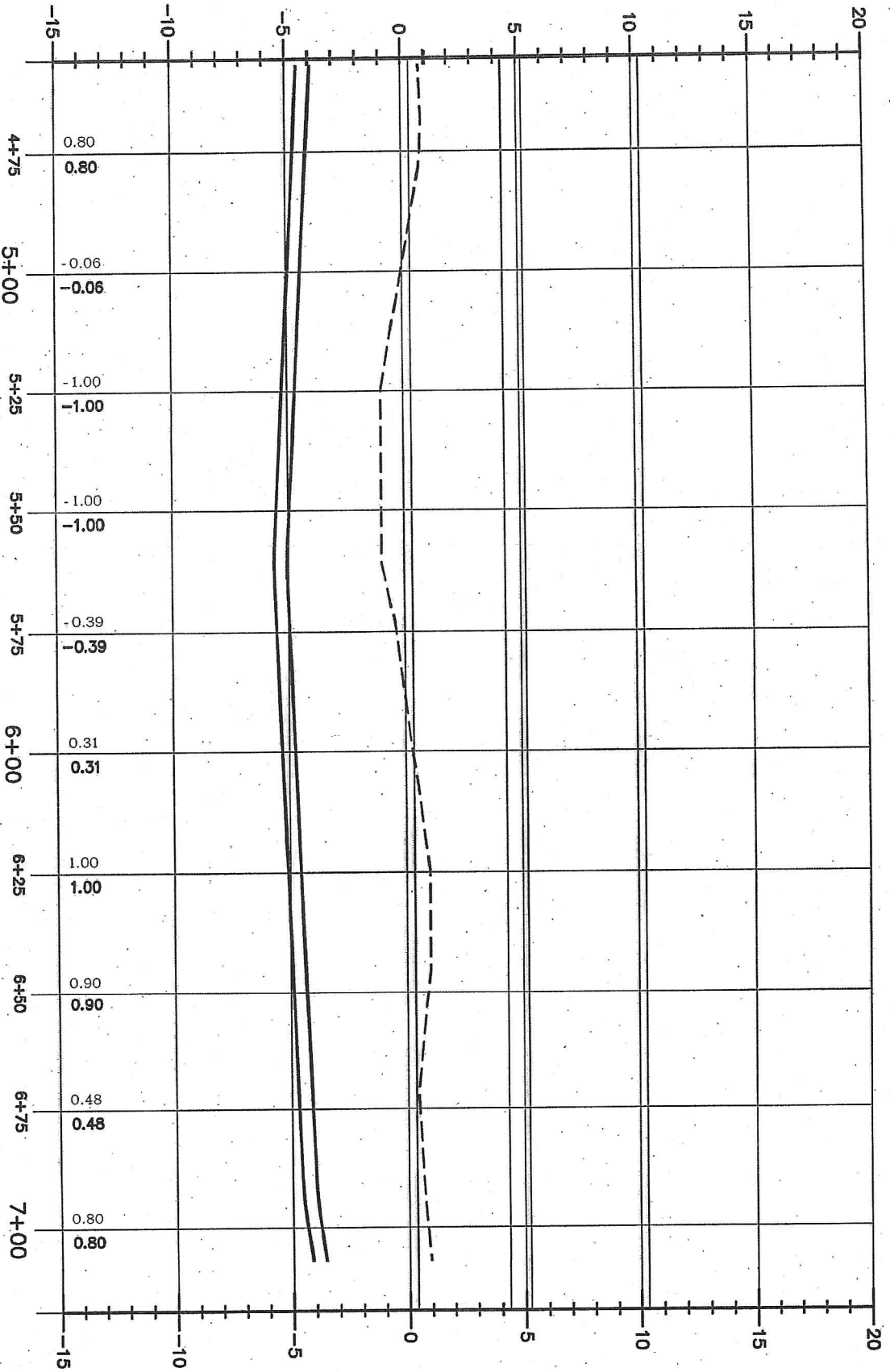


Sheet:

Date: JMZ
Drawing No. Project No.
Checked By: 1728

Seawater
Intake/Discharge
Profile

C-202



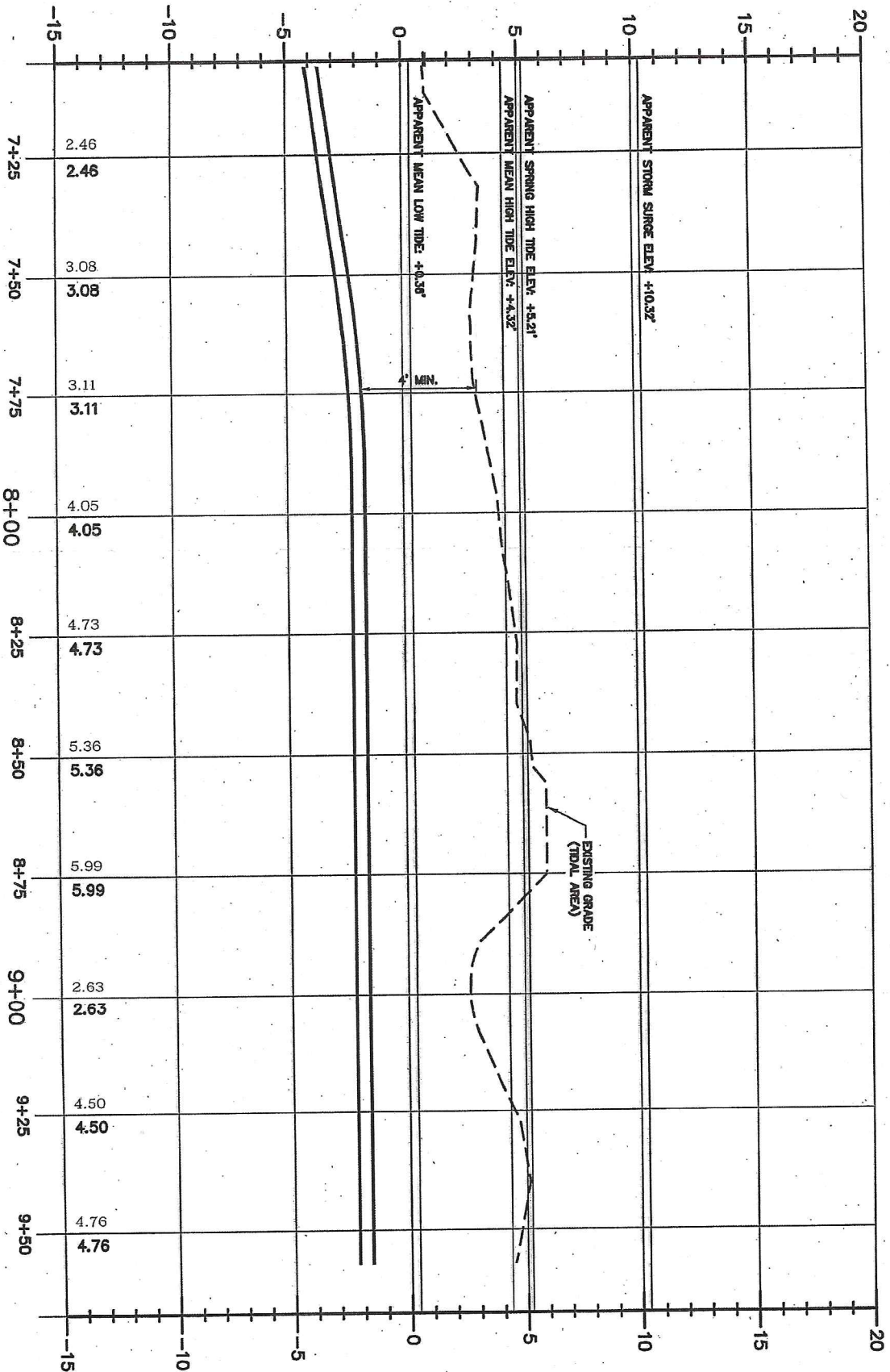
NOTES:

1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.

6" DR-11 HDPE INTAKE PIPE PROFILE

SCALE: HORIZ: 1"=20', VERT: 1"=5'

1



6" DR-11 HDPE INTAKE PIPE PROFILE

1

SCALE: HORIZ. 1"=20', VERT. 1"=5'

NOTES:

1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.



Project:
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work
SUCF Project No.
131046-00
1 Shore Drive
Seabrook, NY 11793

Architect:
MJ Architects and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

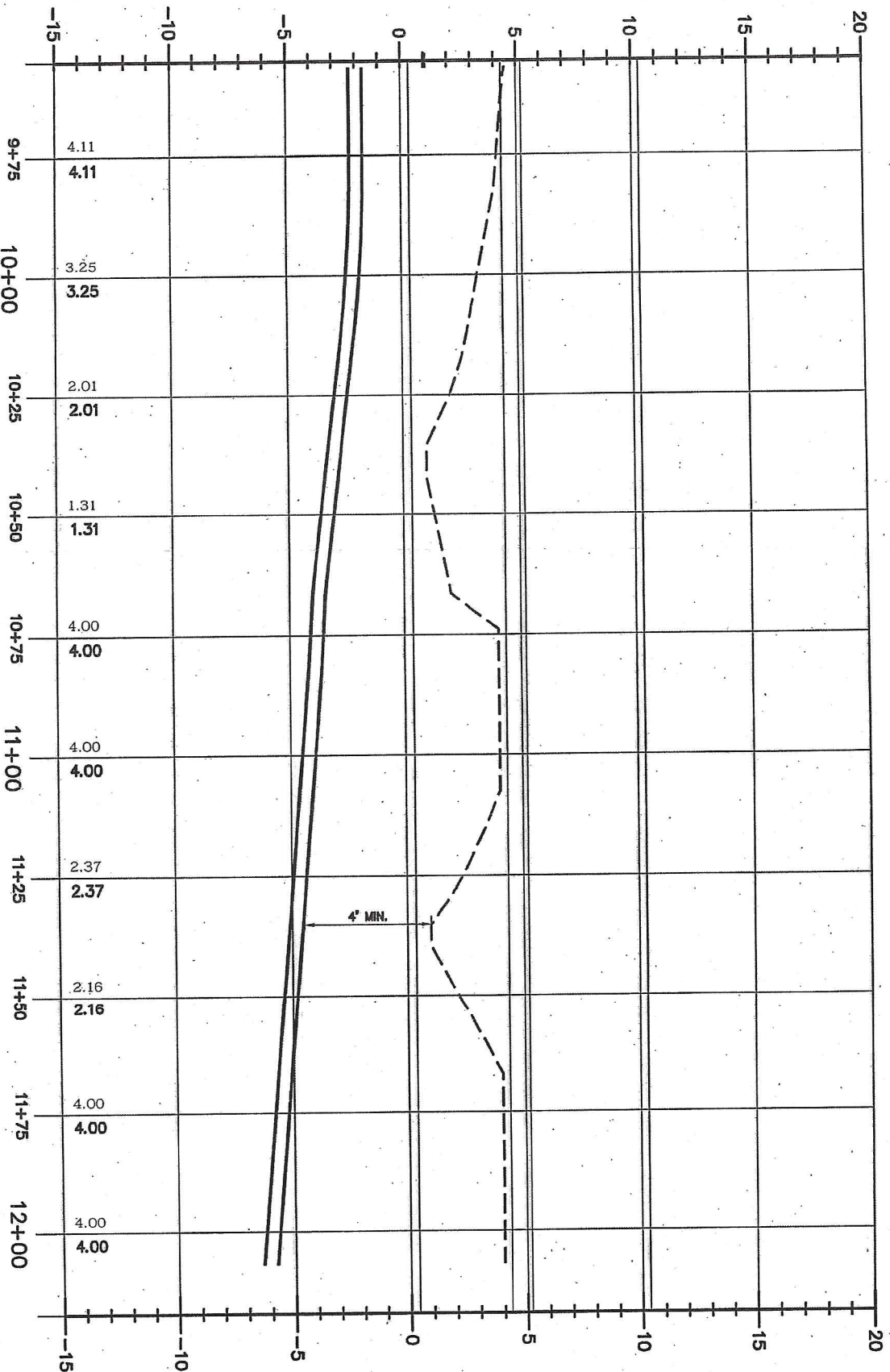


Seal:

Date: 1/17/20
Checked By: J.M.Z.
Project No. 1728

Seawater
Intake/Discharge
Profile

C-203



6" DR-11 HDPE INTAKE PIPE PROFILE

1 SCALE: HORIZ: 1"=20', VERT: 1"=5'

- NOTES:
1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.



Project
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work
SUCE Project No.
131046-00
1 Shore Drive
Selden, NY 11733

Architect:
M.J. Engineers and
Planners, P.C.

Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

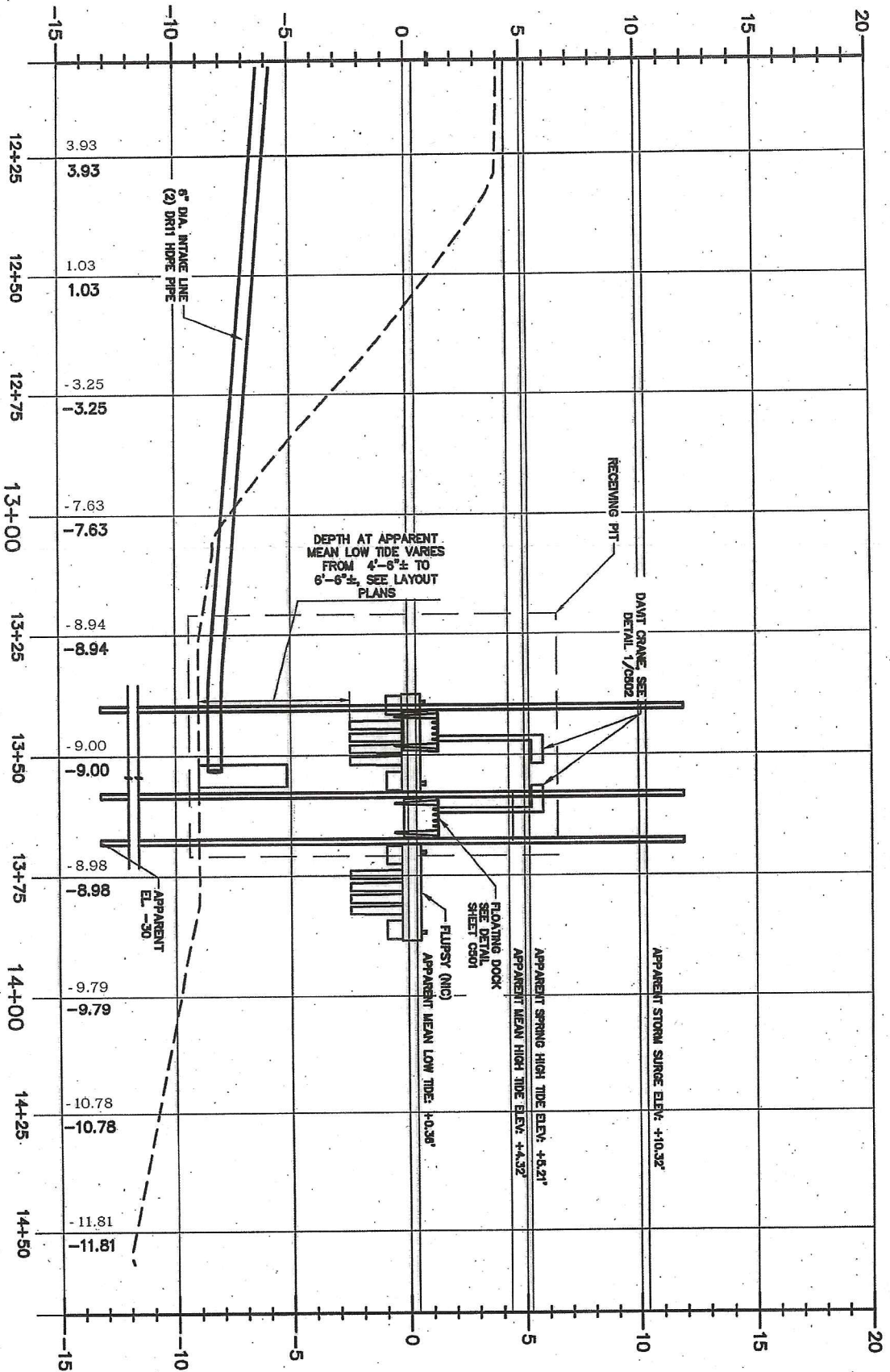


Seal:

Date: JINZ
Checked By: 1728
Project No.

Seawater
Intake/Discharge
Profile

C-204



NOTES:
1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.

6" DR-11 HDPE INTAKE PIPE PROFILE

1 SCALE: HORIZ: 1"=20', VERT: 1"=5'



Project:
Stony Brook University
Expand and Upgrade
Flex Pond Hatchery,
Phase 2 Site Work
SUCF Project No.
131046-00
1 Shore Drive
Seaford, NY 11733

Architect:
M.J. Engineers and Planners, P.C.
Civil Engineer:
M.J. Engineers and Planners, P.C.
and Land Surveying, P.C.



Seal:

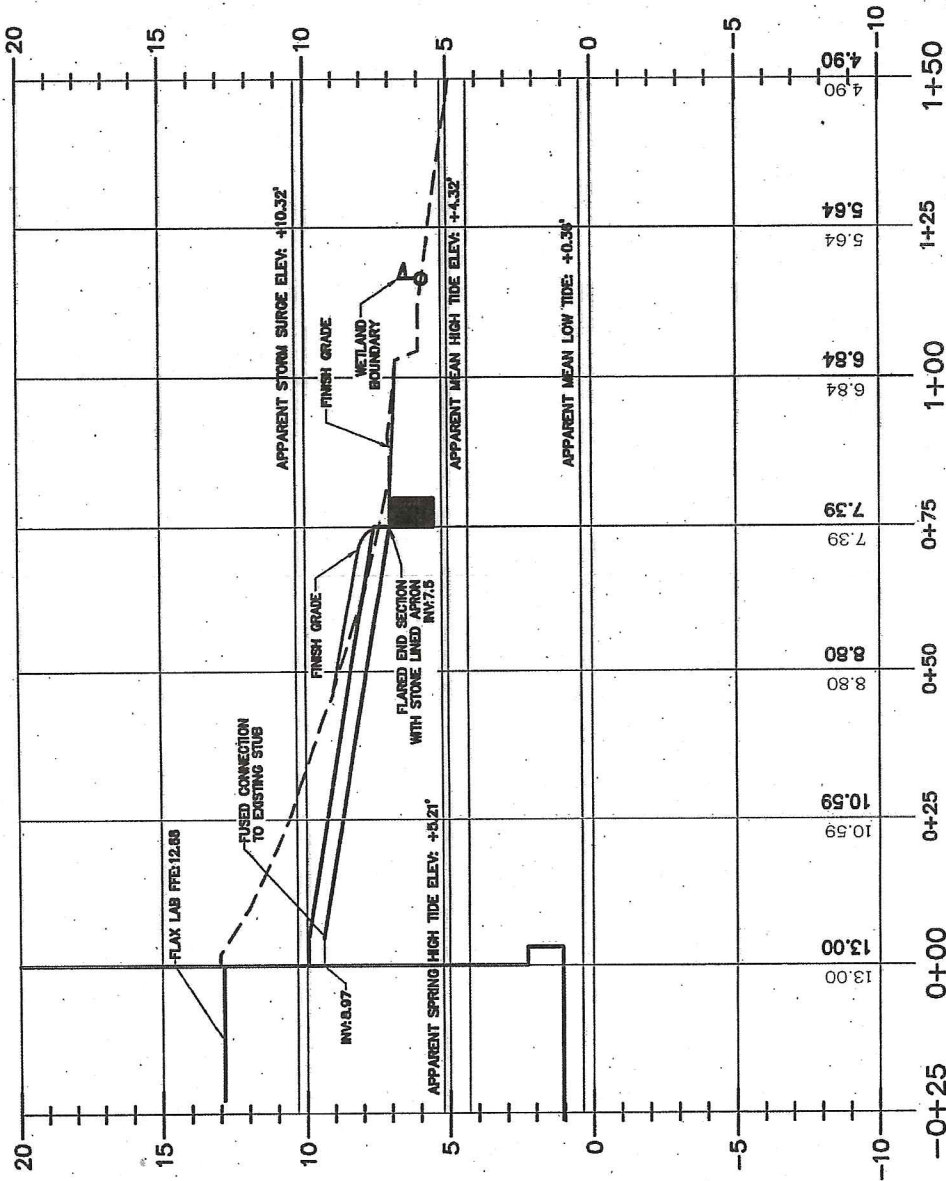
Date:
1/28/2020
Checked By:
1/28/2020
Project No.
1728
Seawater
Intake/Discharge
Profile

C-205

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6" DR-11 HDPE DISCHARGE PIPE
PROFILE

1 SCALE: HORIZ: 1"=20', VERT: 1"=5'



NOTES:

1. THE HORIZONTAL STATIONING SHOWN FOR THE WATER INTAKE LINES IS AT THE CENTER LINE OF THE TWO INTAKE PIPES.
2. THE HORIZONTAL STATIONING SHOWN FOR THE WATER DISCHARGE LINE IS AT THE CENTER LINE OF THE PIPE.
3. MEAN HIGH AND LOW TIDE ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. DATA ELEVATIONS OBTAINED FROM NOAA 1983-2001 DATA.
4. TIDAL FLUCTUATIONS WITHIN FLAX POND VARY UP TO 12" IN EITHER DIRECTION.
5. CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIREMENTS THAT MAY BE NECESSARY FOR THE COMPLETION OF THE WORK SHOWN. PROVIDE THE QUALITY CONTROL SUBMITTALS IN ACCORDANCE WITH SPECIFICATION 310000, SECTION 1.3 (C). INSTALLATION OF SHEETING AND SHORING SHALL NOT COMMENCE UNTIL CALCULATIONS AND DRAWINGS HAVE BEEN REVIEWED.
6. FOR BIDDING PURPOSES, ASSUME DEWATERING OPERATIONS ARE REQUIRED AT THE BORE PIT AND RECEIVING PIT. PROVIDE DEWATERING OPERATIONS PER SPECIFICATION SECTION 310000. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MANAGING WATER THAT MAY BE PRODUCED FROM DEWATERING OPERATIONS.
7. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AROUND BORING PIT ASSOCIATED WITH UTILITY INSTALLATIONS.



Project:
Stony Brook University
Expand and Upgrade
Flax Pond Hatchery,
Phase 2 Site Work

SUCF Project No.
131046-00
1 Shore Drive
Seabrook, NY 11733

Architect:
J.M.Z. Architects and
Planners, P.C.
Civil Engineer:
M.J. Engineering
and Land Surveying,
P.C.

Seal:

Date:
J.M.Z.
Project No.
1728

Seawater
Intake/Discharge
Profile

C-206