



DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

November 23, 2015

Regulatory Division
CENAE-R-PEC
Permit Number: NAE-2015-01928

City of Portsmouth
c/o Terry Desmarais
680 Peverly Hill Road
Portsmouth, New Hampshire 03801

Dear Applicant:

This is to inform you that we have reviewed your application to conduct activities as described on the attached NH State Permit 2015-01866, dated October 9, 2015.

Based on the information you provided to the New Hampshire Wetlands Bureau, we have determined that your project, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts on waters of the United States, including wetlands. Therefore, this work is authorized under the attached Federal permit known as the New Hampshire Programmatic General Permit (PGP). This work must be performed in accordance with the terms and conditions of the PGP and the following special conditions:

Special Condition 1: As described in the attached New Hampshire Division of Historical Resources letter dated May 27, 2015 fencing and monitoring by an archaeologist will be conducted in Areas 5 and 6 to protect two identified middens and a probable remnant of the Fort Washington earthworks.

Special Condition 2: This authorization does not authorize the revetment work shown in the attached plans or referenced in the attached State Permit.

This authorization expires on August 3, 2017 unless the PGP is modified, suspended, or revoked before that. You must complete the work authorized herein by that date. If you do not, you must contact this office to determine the need for further authorization before continuing the activity. We recommend that you contact us *before* this authorization expires to discuss a time extension or reissuance of the authorization.

If you change the plans or construction methods for work within our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.


This authorization presumes that the work as described above and as shown on your plans noted above is in waters of the U.S. Should you desire to appeal our jurisdiction, please submit a request for an approved jurisdictional determination in writing to this office.

This permit does not obviate the need to obtain other Federal, state or local authorizations required by law, including those listed in the PGP. Performing work not specifically authorized by this determination or failing to comply with all the terms and conditions of the PGP may subject you to the enforcement provisions of Corps regulations.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at http://www.nae.usace.army.mil/reg/Customer_Service_Survey.pdf.

If you have questions concerning this, please contact Richard Kristoff of my staff at (978) 318-8171, (978) 318-8335/8338, (800) 343-4789, or, if calling from within Massachusetts, (800) 362-4367.

Sincerely,


Frank J. DelGiudice
Chief, Permits & Enforcement Branch
Regulatory Division

Enclosures

Copies Furnished:

New Hampshire Department of Environmental Services, Wetlands Bureau, Attn: Mr. Collis Adams, P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

Jon Pearson, AECOM, 701 Edgewater Drive, Wakefield, Massachusetts 01880,
Jon.Pearson@aecom.com



The State of New Hampshire
Department of Environmental Services

Thomas S. Burack, Commissioner



WETLANDS AND NON-SITE SPECIFIC PERMIT 2015-01866

Permittee: City of Portsmouth
c/o Terry Desmarais
680 Peverly Hill Rd.
Portsmouth, NH 03801
Project Location: Peirce Island, Portsmouth
Portsmouth Tax Map/Lot No. 208 / 1
Waterbody: Piscataqua River

**NOTE --
CONDITIONS**

APPROVAL DATE: 10/06/2015

EXPIRATION DATE: 10/06/2020

Based upon review of the above referenced application, in accordance with RSA 482-A and RSA 485-A:17, a Wetlands Permit and Non-Site Specific Permit was issued. This permit shall not be considered valid unless signed as specified below.

PERMIT DESCRIPTION: Impact a total of 135,975 square feet of developed and undeveloped upland tidal buffer zone, including a total of 21,745 square feet in the undeveloped tidal buffer zone (13,210 s.f. temporary and 7,505 s.f. permanent impacts); and a total of 114,230 square feet in the developed tidal buffer zone (87,220 sf. temporary and 27,010 permanent impacts) for construction to upgrade the existing Portsmouth Wastewater Treatment facility in accordance with EPA Consent Decree.

Approve as mitigation implementation of the "Invasive Species Management Plan" by Normandeau Associates dated August 18, 2015.

THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:

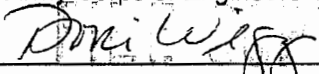
1. All work shall be in accordance with plans by AECOM dated July 2015, as received by the NH Department of Environmental Services (DES) on 7/21/2015.
2. This permit is not valid unless an Alteration of Terrain permit or other method of compliance with RSA 485-A:17 and Env-Wq 1500 is achieved.
3. This permit is further contingent upon execution of approved mitigation "Invasive Species Management Plan" by Normandeau Associates dated August 18, 2015, with the following requirements:
 - a. The Plan shall be initiated concurrent with the project facility construction;
 - b. Initial report documenting the first season's activities shall be submitted no later than October 1;
 - c. A second report shall be submitted following the next season no later than October 1 of the second year;
 - d. A plan for long-term success and monitoring shall be submitted to DES at the end of the second year for review and approval.
4. Orange construction fence shall be installed around permitted impact areas to avoid activities expanding into unintended areas, and in further accordance with specific requirement relative to threatened species protection stated below.
5. Appropriate siltation and erosion controls shall be in place prior to construction, shall be maintained during construction, and shall remain until the area is stabilized. Temporary controls shall be removed once the area has been stabilized.
6. Relative to the protection of the state-threatened Marsh Elder populations the following conditions shall be adhered to:
 - a. No construction activity or equipment staging will occur outside of erosion control limits, approximately 40 feet from Marsh Elder populations;
 - b. Construction safety fencing shall be installed along either side of Peirce Island Road during the construction;
 - c. During the construction season (Dec. 1- Apr. 30) erosion control fencing will be installed around the seasonal construction trailer/staging area, located adjacent to the eastern end of Sub-population 1;
 - d. Before construction fencing is removed at the end of the construction season, and /or upon termination of the project, care should be taken to remove any sediments that have collected along the fence, so that they do not run off with storm water and impact the Marsh Elder.
7. Any further alteration of areas on this property that are subject to RSA 482-A jurisdiction will require a new application and further permitting.

8. All development activities associated with this project shall be conducted in compliance with applicable requirements of RSA 483-B and N.H. Code Admin. Rules Env-Wq 1400 during and after construction.
9. No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and Env-Wq 1700.
10. Erosion control products shall be installed per manufacturers recommended specifications.
11. The contractor responsible for completion of the work shall use techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).
12. No concrete is to be used anywhere in the construction of the stone riprap revetment. All stone shall be dry laid or placed stone underlain with filter fabric.
13. All temporary impacts shall be remediated back to natural contours and stabilized with native seed mix, as well as planted according to the approved landscape plan immediately upon completion of project construction use of the site.
14. A report documenting such restoration shall be submitted to DES within 30 days of the restoration activities being completed.
15. Construction equipment shall be inspected daily for leaking fuel, oil, and hydraulic fluid prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
16. The permittee's contractor shall maintain appropriate oil/diesel fuel spill kits on site that are readily accessible at all times during construction, and shall train each operator in the use of the kits.
17. All refueling of equipment shall occur outside of surface waters or wetlands during construction. Machinery shall be staged and refueled in upland areas only.
18. Faulty equipment shall be repaired immediately prior to entering areas that are subject to RSA 482-A jurisdiction.

GENERAL CONDITIONS THAT APPLY TO ALL DES WETLANDS PERMITS:

1. A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel;
2. This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others;
3. The Wetlands Bureau shall be notified upon completion of work;
4. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES-Alteration of Terrain, etc.);
5. Transfer of this permit to a new owner shall require notification to and approval by DES;
6. This project has been screened for potential impacts to **known** occurrences of rare species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have received only cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species.
7. Review enclosed sheet for status of the US Army Corps of Engineers' federal wetlands permit.

APPROVED: _____


Dori Wiggin, East Region Supervisor
DES Wetlands Bureau

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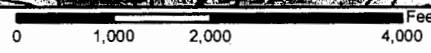
BY SIGNING BELOW I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.

OWNER'S SIGNATURE (required)

CONTRACTOR'S SIGNATURE (required)



Project Location



S16
171

CITY OF PORTSMOUTH
 PORTSMOUTH, NEW HAMPSHIRE
 PEIRCE ISLAND WASTEWATER TREATMENT FACILITY

EXHIBIT A - REVETMENT LOCATIONS

Date: 5/18/2015
 Drawn By: schase
 Project No: 86753.08

SCALE: 1:24,000
 NORMANDEAU environmental consultants
 25 Nashua Road Bedford NH 03110
 (603) 472-5131 www.normandeauc.com
 JUNE 2015

NHDES WETLAND PERMIT CITY OF PORTSMOUTH, NEW HAMPSHIRE

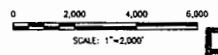
PEIRCE ISLAND WASTEWATER TREATMENT FACILITY UPGRADE JULY 2015



PROJECT
LOCATION



LOCATION PLAN
APPROXIMATE SCALE: 1" = 2,000'



INDEX OF SHEETS

00 G-001 PERMIT	COVER SHEET, LOCATION PLAN AND INDEX OF SHEETS
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00 C-103 PERMIT	EXISTING CONDITIONS AND EROSION CONTROL PLAN II
00 C-104 PERMIT	DEMOLITION PLAN I
00 C-105 PERMIT	DEMOLITION PLAN II
00 C-106 PERMIT	DEMOLITION PLAN III
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NOTE:

WETLANDS WERE DELINEATED BY NORMANHOEAU ASSOCIATES, INC. ON JUNE 3, 2013. THE WETLAND DELINEATIONS WERE COMPLETED IN ACCORDANCE WITH THE CRITERIA DESCRIBED IN THE U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL TECHNICAL REPORT Y-87-1 (JANUARY, 1987) AND THE REGIONAL SUPPLEMENT FOR THE NORTH-CENTRAL AND NORTHEAST REGION (JANUARY, 2012) AND MEET THE CRITERIA FOR WETLAND DELINEATION IN ACCORDANCE WITH THE NH DES ADMINISTRATIVE RULES ENV-WT 301.01 AND ENV-WT 101.48.

RECEIVED

JUL 21 2015

ENVIRONMENTAL SERVICES
"BY NH DES WETLANDS BUREAU"



PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION

MARK	DATE	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	REVISIONS

AECOM

NORMANHOEAU ASSOCIATES, INC.
10000
10000

ALTTIS
10000

COVER SHEET, LOCATION PLAN
AND INDEX OF SHEETS

CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PEIRCE ISLAND WWTU UPGRADE

PROJECT NO:	00G001225
CAD DWG FILE:	00G001225.dwg
DESIGNED BY:	T. WISSELL
DRAWN BY:	C. HOZZER
DEPT CHECK:	C. HOZZER
PROJ CHECK:	E. MESSNER
DATE:	JULY 2015
SCALE:	AS NOTED

00 G-001 PERMIT

GENERAL NOTES

- 1. PROPOSED LOCATIONS SHOWN ARE REFERENCED TO THE NH STATE PLATE COORDINATE SYSTEM. WALLS...
2. VERTICAL ELEVATIONS ARE FROM THE PROPOSED FINISHED GRADE (FG) AT THE POINT OF INTERSECTION WITH THE...
3. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO FACE UNLESS INDICATED OTHERWISE. DIMENSIONS TO FACE...
4. THE CONTRACTOR SHALL VERIFY THE EXISTING ELEVATIONS AND LOCATIONS OF ALL UTILITIES...
5. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES THE STABILITY AND INTEGRITY OF ALL EXISTING UTILITIES...
6. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES THE STABILITY AND INTEGRITY OF ALL EXISTING UTILITIES...
7. ALL UTILITIES TO BE MOVED SHALL BE MOVED TO THE LOCATION INDICATED ON THE DRAWINGS...
8. LOCATION COORDINATES TO PROPOSED STRUCTURES ARE TO EXTERIOR WALLS AND CENTER OF PAVES...
9. ALL SURFACE, STRUCTURAL, GRADE, SIDEWALK, DRIVE, DRIVE, DRIVE, DRIVE, DRIVE, DRIVE, DRIVE, DRIVE...
10. ALL AREAS OF EXCAVATION, BACKFILL, TIL AND GRADING SHALL BE RETURNED TO THE ORIGINAL GRADE...
11. ALL UTILITIES, PIPES, CHANNELS, ETC. INSTALLED BY CONTRACTOR AND NOT TO BE ABANDONED SHALL BE...
12. IMPROVED AREAS EXCEPT FOR THE CONCRETE SHALL BE GRADED AND GRASSED IF REQUIRED, AND

VERTICAL DATUM CONVERSION NOTE:

SINCE ALL VERTICAL ELEVATIONS IN THIS PLAN ARE REFERENCED TO THE NH STATE PLATE COORDINATE SYSTEM, THE VERTICAL...
CONVERSION TABLE IS PROVIDED FOR YOUR REFERENCE. THE VERTICAL DATUM CONVERSION TABLE IS PROVIDED FOR YOUR REFERENCE.

ABBREVIATIONS

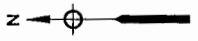
Table with columns for symbol, abbreviation, and description. Includes symbols for manhole, catch basin, catch basin, etc.

LEGEND

Legend area showing symbols for EXISTING and PROPOSED features. Includes symbols for utility pole, manhole, catch basin, concrete, etc.

City of Portsmouth, NH - Department of Public Works. Peirce Island WWTF Upgrade. Legend, Abbreviations and General Notes. Permit Application Drawing, Not for Construction. Includes project information, scale, date, and signature fields.

1 2 3 4 5



EXTENT OF EROSION CONTROL MEASURES (TYP.).
SILT FENCE AND STRAW BALES TO BE PLACED
ALONG INSIDE FACE OF PLANT PERIMETER FENCE
OR CONSTRUCTION SAFETY FENCE.

MEAN HIGH WATER (MHW)

HIGHEST OBSERVABLE TIDE LINE (HOTL)

PISCATAQUA RIVER

PISCATAQUA RIVER

TIDAL WATERS

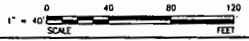
SILT FENCE AND STRAW BALES TO BE
PLACED ALONG INSIDE FACE OF
CONSTRUCTION SAFETY FENCE.
CONTRACTOR TO LOCATE FENCE
GATE(S) AT HIS DISCRETION.

ARE HELD
#132A
(PAVED OVER)
MHW=15'
TOP OF
PIPE=29'
MHW=29'

STABILIZED CONSTRUCTION EXIT.
SEE DETAILS.

MATCH LINE, SEE SHEET 00 C-103 PERMIT

PLAN
SCALE: 1"=40'



PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION

AECOM
CORPORATE OFFICE
100 WATER STREET, 4TH FLOOR
PORTSMOUTH, NH 02870
TEL: 603-271-1000
WWW.AECOM.COM

ALTUS
CONSULTANTS, INC.
100 WATER STREET, 4TH FLOOR
PORTSMOUTH, NH 02870
TEL: 603-271-1000
WWW.ALTUSCONSULTANTS.COM

NORMANAU
CONSULTANTS, INC.
100 WATER STREET, 4TH FLOOR
PORTSMOUTH, NH 02870
TEL: 603-271-1000
WWW.NORMANAU.COM



CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PERICE ISLAND WWTF UPGRADE
EXISTING CONDITIONS AND
EROSION CONTROL PLAN I
PERMITTING

PROJECT NO: 00210255
CADD FILE: 00 C-102-001.dwg
DESIGNED BY: T. WISSELL
DRAWN BY: C. BROWN
CHECKED BY: C. BROWN
FINAL CHECK: E. BROWN
DATE: JULY 2015
SCALE: AS NOTED

00 C-102 PERMIT

D

C

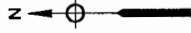
B

A

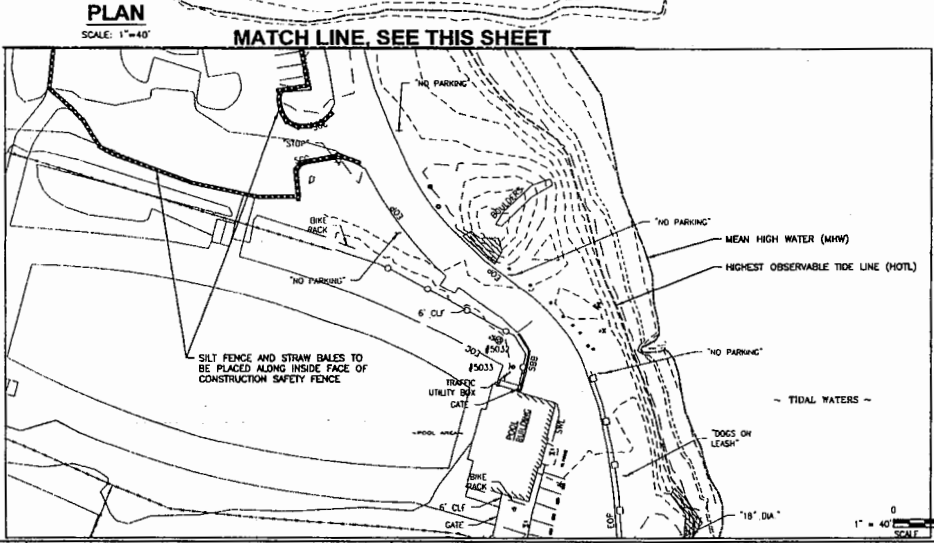
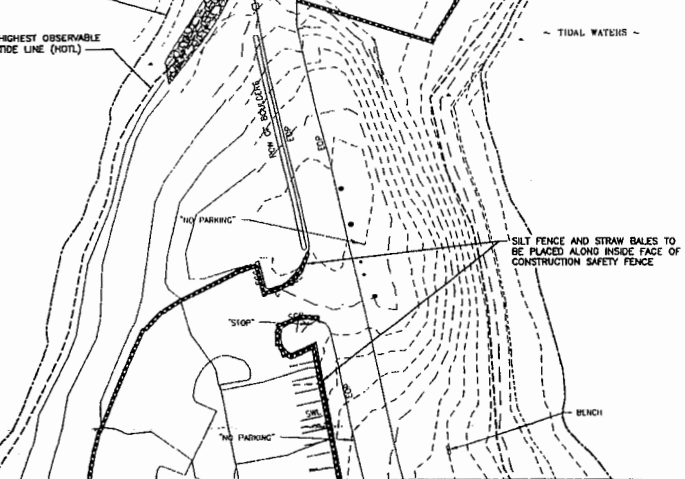
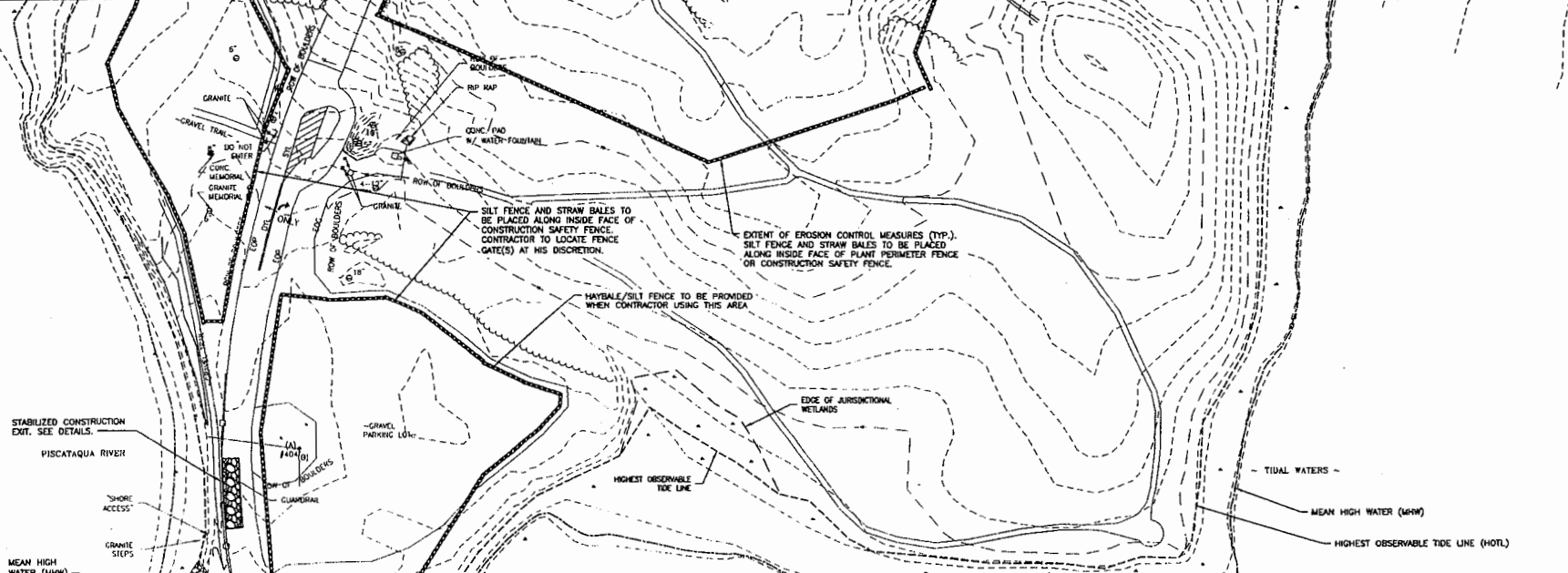
00 B - 25 - 001 - 15

1 2 3 4 5

1 2 3 4 5



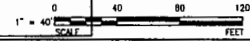
MATCH LINE, SEE SHEET 00 C-102 PERMIT



MATCH LINE, SEE THIS SHEET

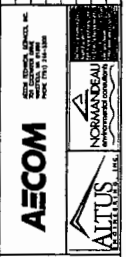
PLAN SCALE: 1"=40'

MATCH LINE, SEE THIS SHEET



DATE PLOTTED: 7/20/2015 10:30:15 AM

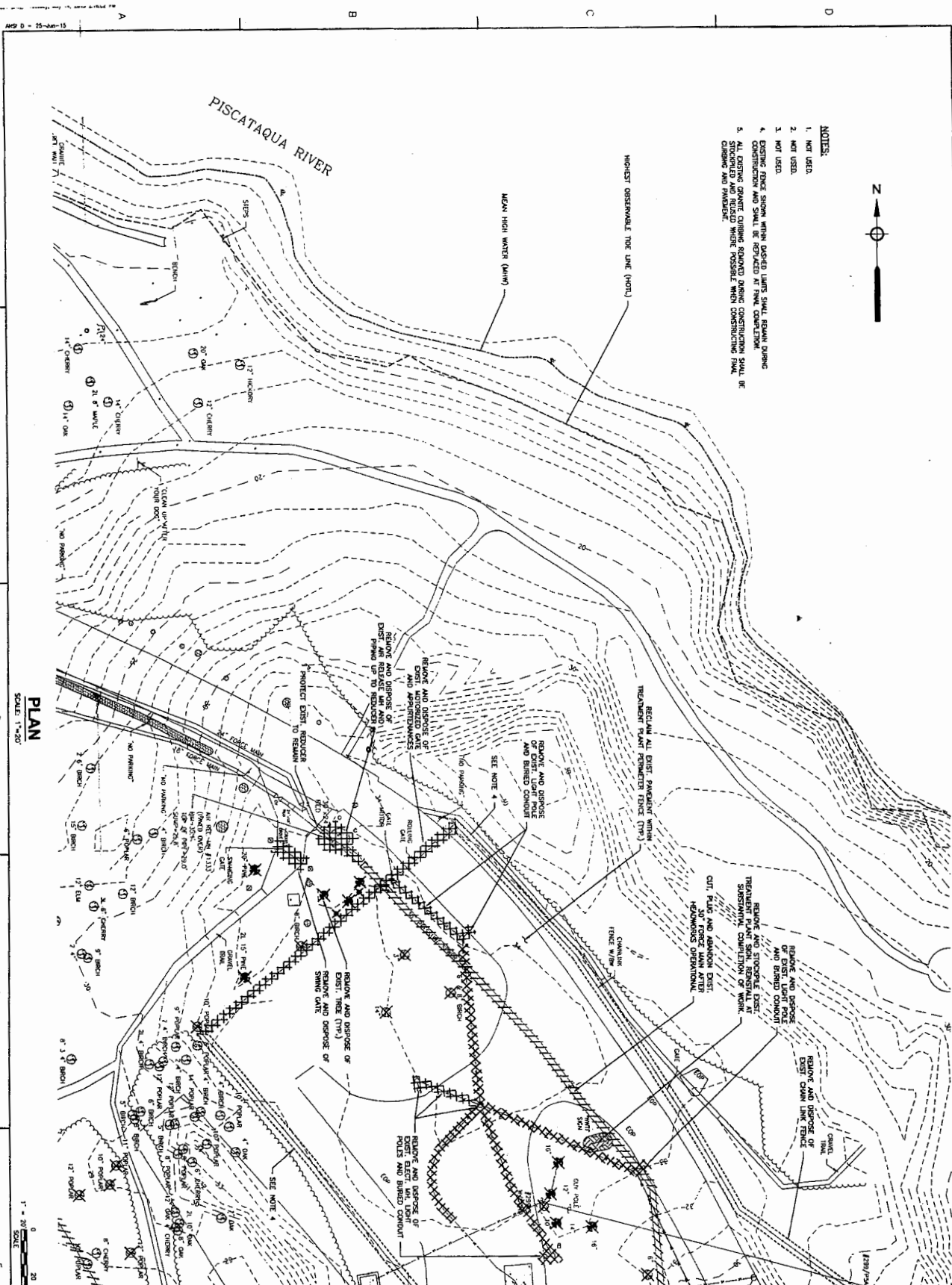
PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION



CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PERCE ISLAND WWTF UPGRADE
EXISTING CONDITIONS AND
EROSION CONTROL PLAN II
PERMITTING

PROJECT NO: 0031025
CADD FILE: 00-01025-00-100-00-001.dwg
DESIGNED BY: T. WISSEL
DRAWN BY: C. BONDOR
DTM CHECK: C. BONDOR
PROJ CHECK: E. WESBERG
DATE: JULY 2015
SCALE: AS NOTED

00 C-103 PERMIT



- NOTES:**
1. NOT USED
 2. NOT USED
 3. NOT USED
 4. EXISTING FENCE SIGN WITH DANGER LIMITS SHALL REMAIN DURING CONSTRUCTION AND SHALL BE REPAIRED AT FINAL COMPLETION.
 5. ALL EXISTING GRAVITY CHIMNEY REMOVED DURING CONSTRUCTION SHALL BE STOCKPILED AND REUSED WHERE POSSIBLE WHEN CONSTRUCTION SHALL BE COMING AND FINISHED.



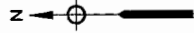
PLAN
SCALE 1"=20'

1"=20'
SCALE
FEET

MATCH LINE, SEE SHEET 00 C-106 PERMIT

MATCH LINE, SEE SHEET 00 C-105 PERMIT

<p>00-C-104 PERMIT</p>	<p>CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PEIRCE ISLAND WWTF UPGRADE DEMOLITION PLAN I PERMITTING</p>		<p>AECOM</p> <p><small>AMERICAN ENGINEERING CONSULTANTS, INC. 100 WATER STREET, SUITE 2000 PORTSMOUTH, NH 02871 TEL: 603.876.1000</small></p>	<p>ALTUS</p> <p><small>CONSTRUCTION SOFTWARE</small></p>	<p>NORMANDEAU</p> <p><small>ENGINEERING CONSULTANTS</small></p>	<p>PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>MADE BY</th> <th>CHECKED</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	MARK	DATE	MADE BY	CHECKED	DESCRIPTION										
MARK	DATE	MADE BY	CHECKED	DESCRIPTION																	



PISCATAQUA RIVER

MATCH LINE, SEE SHEET 00 C-108 PERMIT

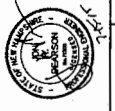
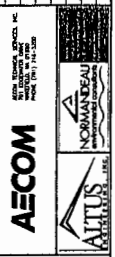
MATCH LINE, SEE SHEET 00 C-110 PERMIT

PLAN
SCALE: 1"=20'

STR. #	NORTHING	EASTING
CB-1	210291.78	1231831.45
CB-2	210247.23	1231814.06
CB-3	210181.34	1231882.84
CB-4	210172.81	1231798.50
DMH-1	210278.66	1231841.41
DMH-2	210255.61	1231820.55
DMH-3	210192.43	1231826.20
DMH-5	210170.36	1231773.10
DMH-6	210195.44	1231682.15
WCI	210258.92	1231835.61

COORDINATES SHOWN ARE AT THE CENTERLINE OF DRAINAGE STRUCTURE

PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION

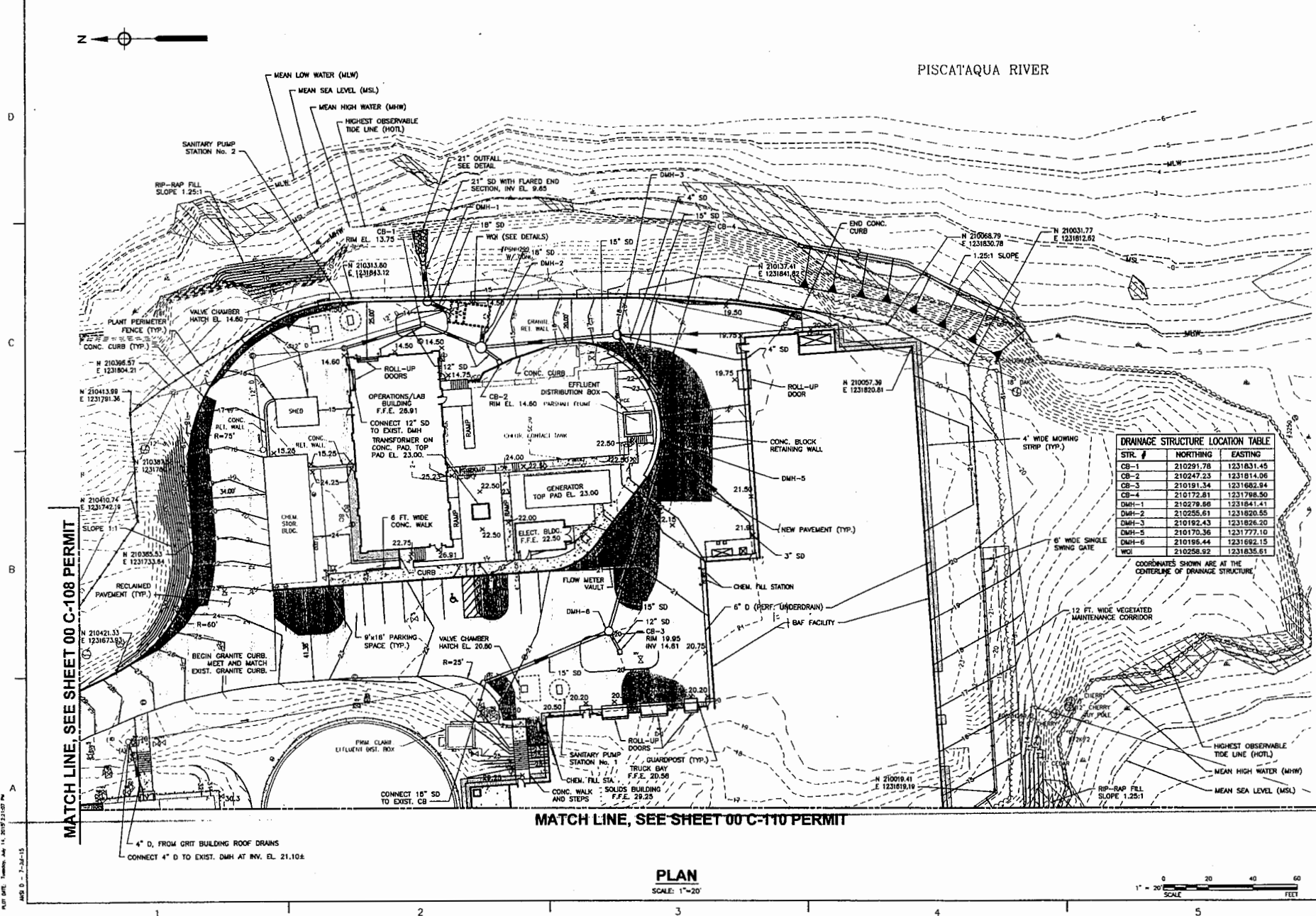
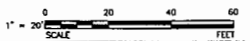


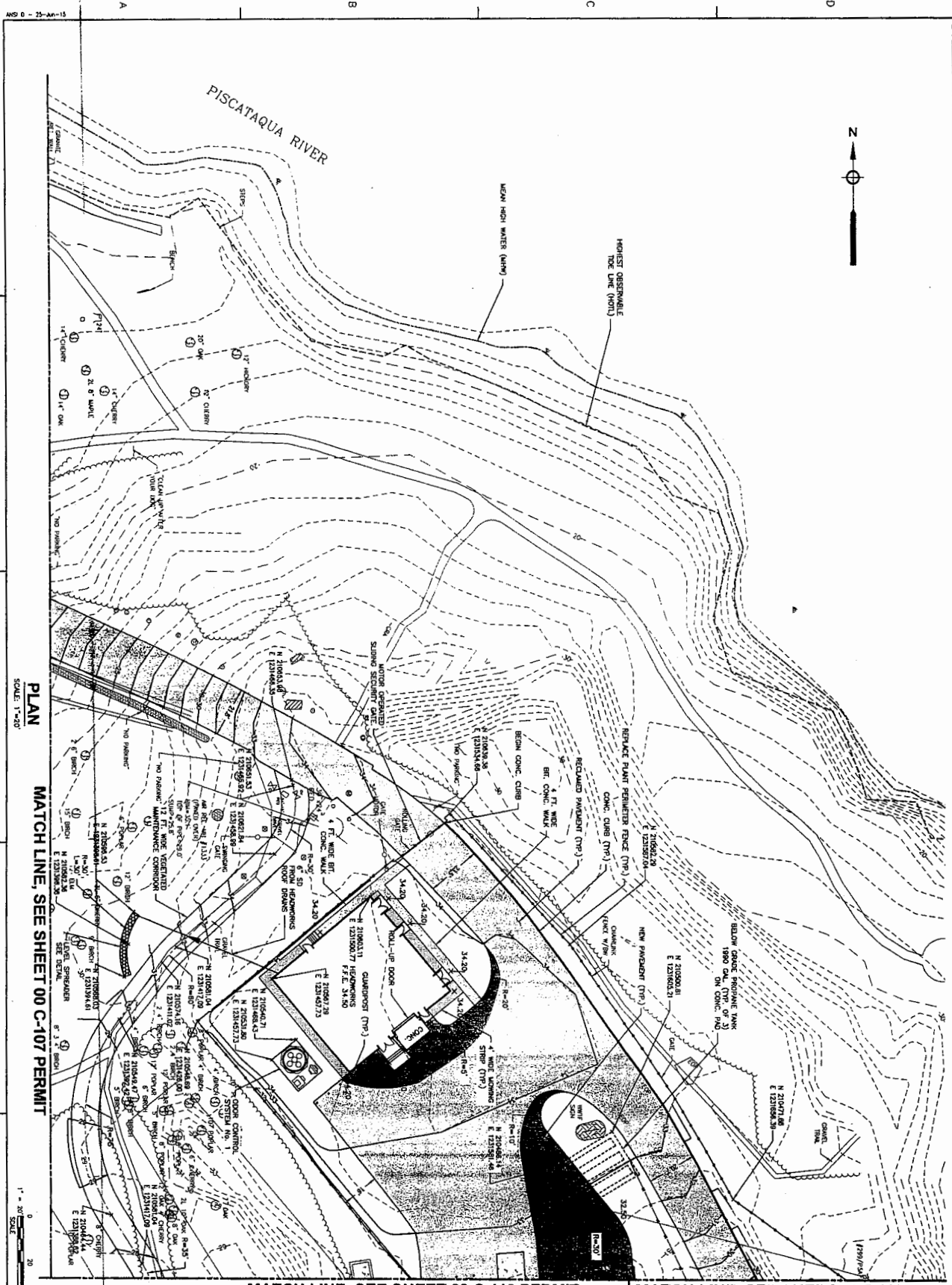
CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PERICE ISLAND WWTF UPGRADE
SITE LAYOUT, PAVING, GRADING
AND DRAINAGE PLAN III
PERMITTING

PROJECT NO: 60001525
CAD DWG FILE: 00 C-109 - PERM.DWG
DESIGNED BY: T. WASSILL

DRAWN BY: M. YEE
DEPT CHECK: C. BENDER
PROJ CHECK: E. MESSINE
DATE: JULY 2015
SCALE: AS NOTED

00 C-109 PERMIT





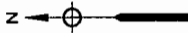
PLAN
SCALE: 1"=30'

MATCH LINE, SEE SHEET 00 C-107 PERMIT

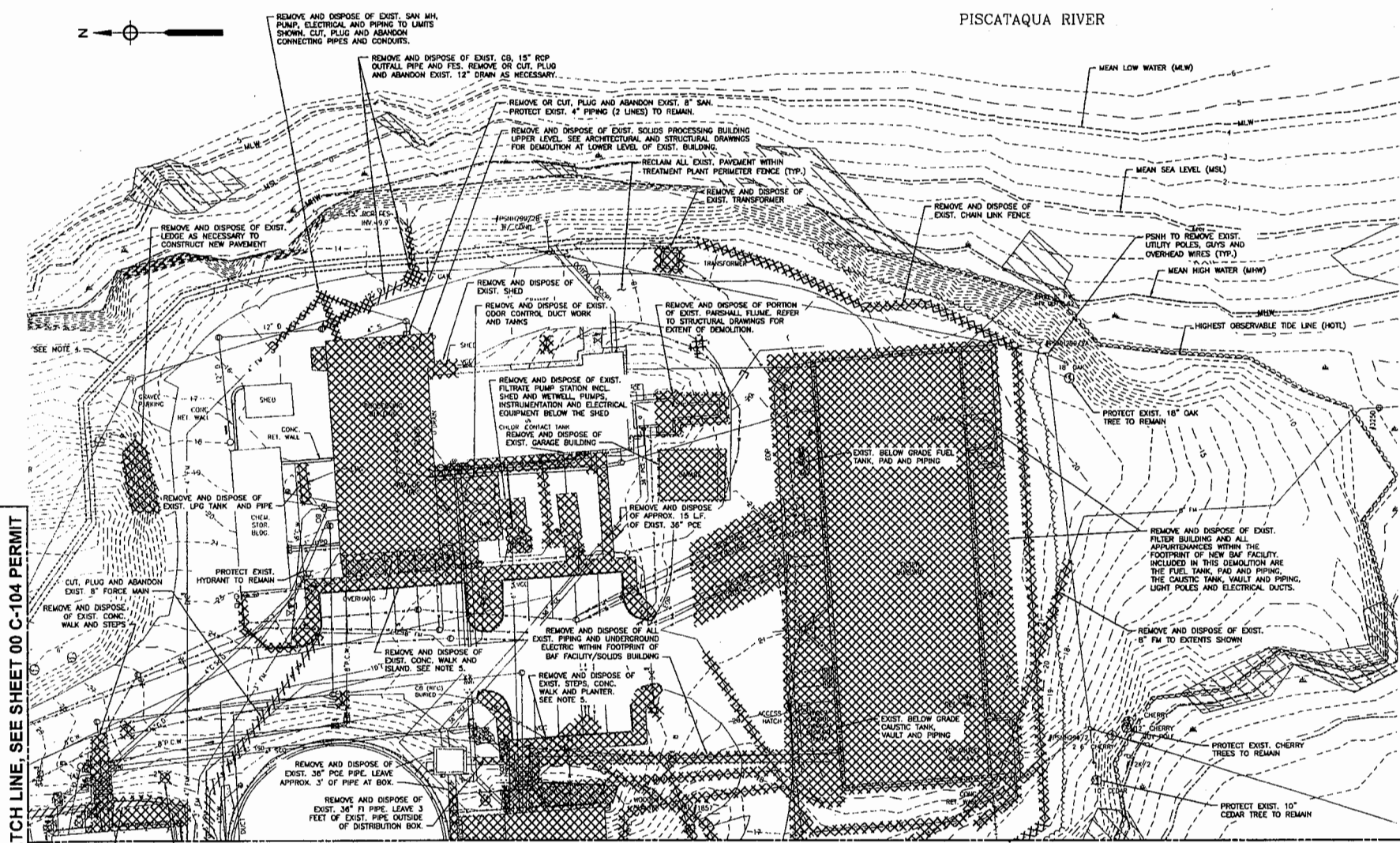
MATCH LINE, SEE SHEET 00 C-110 PERMIT

MATCH LINE, SEE SHEET 00 C-109 PERMIT

00 C-108 PERMIT	CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PEIRCE ISLAND WWTF UPGRADE SITE LAYOUT, PAVING, GRADING AND DRAINAGE PLAN II					PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION			
	PROJECT NO. 00101818 OLD ONE FILE NO. 00-108-0000					NEW YORK OFFICE: 100 WEST STREET, 10TH FLOOR, NEW YORK, NY 10038 TEL: (212) 904-7000 FAX: (212) 904-7001		MARK DATE MADE BY CHECKED DESCRIPTION	
	DESIGNER: J. M. DEGROOT DRAWN BY: K. TAYLOR CHECKED BY: C. BROWN TITLE: CIVIL ENGINEER DATE: 04/28/09 SCALE: AS SHOWN					REVISIONS		PERMITTING	
	00 C-108 PERMIT					7-15-17		ALTUS CONSULTANTS, INC.	



PISCATAQUA RIVER



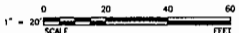
MATCH LINE, SEE SHEET 00 C-104 PERMIT

MATCH LINE, SEE SHEET 00 C-106 PERMIT

NOTES:

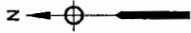
1. NOT USED.
2. NOT USED.
3. NOT USED.
4. EXISTING FENCE SHOWN WITHIN DASHED LIMITS SHALL REMAIN DURING CONSTRUCTION AND SHALL BE REPLACED AT FINAL COMPLETION.
5. ALL EXISTING GRANITE CURBING REMOVED DURING CONSTRUCTION SHALL BE STOCKPILED AND RECYCLED WHERE POSSIBLE WHEN CONSTRUCTING FINAL CURBING AND PAVEMENT.

PLAN
SCALE: 1"=20'



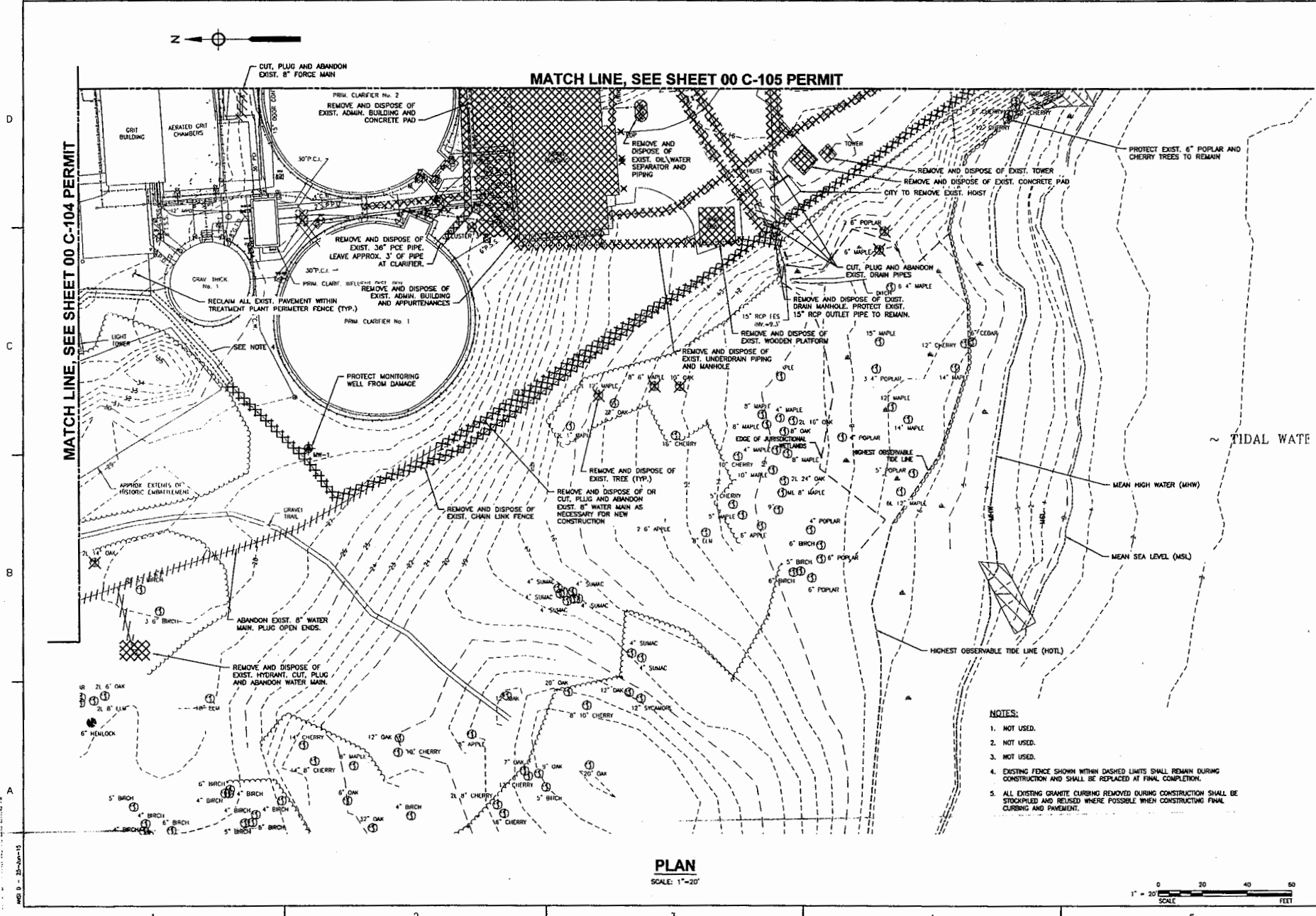
PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION					
DATE	MADE BY	CHECKED	DESCRIPTION	REVISED	
JULY 2015					
CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PIERCE ISLAND WWTFF UPGRADE DEMOLITION PLAN II PERMITTING					
PROJECT NO: 60301525 CAD DWG FILE: 00 C-105 - P001.dwg DESIGNED BY: T. WASSALL DRAWN BY: K. YEE DEPT CHECK: C. BENZGER PROJ CHECK: E. MERVISE DATE: JULY 2015 SCALE: AS NOTED					
00 C-105 PERMIT					

DATE: 7/14/15 8:12:27 AM
D:\D - 7-14-15



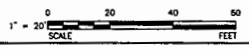
MATCH LINE, SEE SHEET 00 C-105 PERMIT

MATCH LINE, SEE SHEET 00 C-104 PERMIT



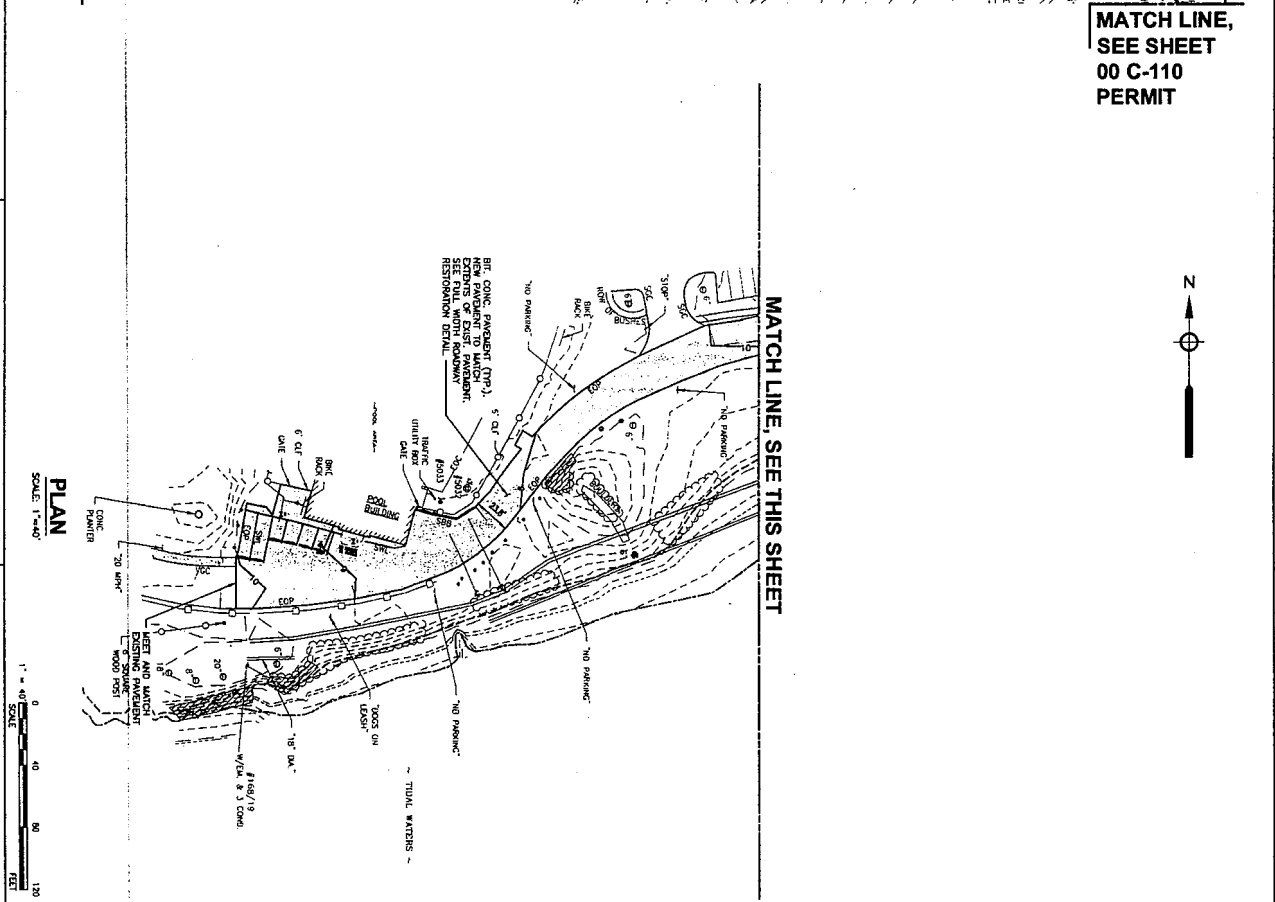
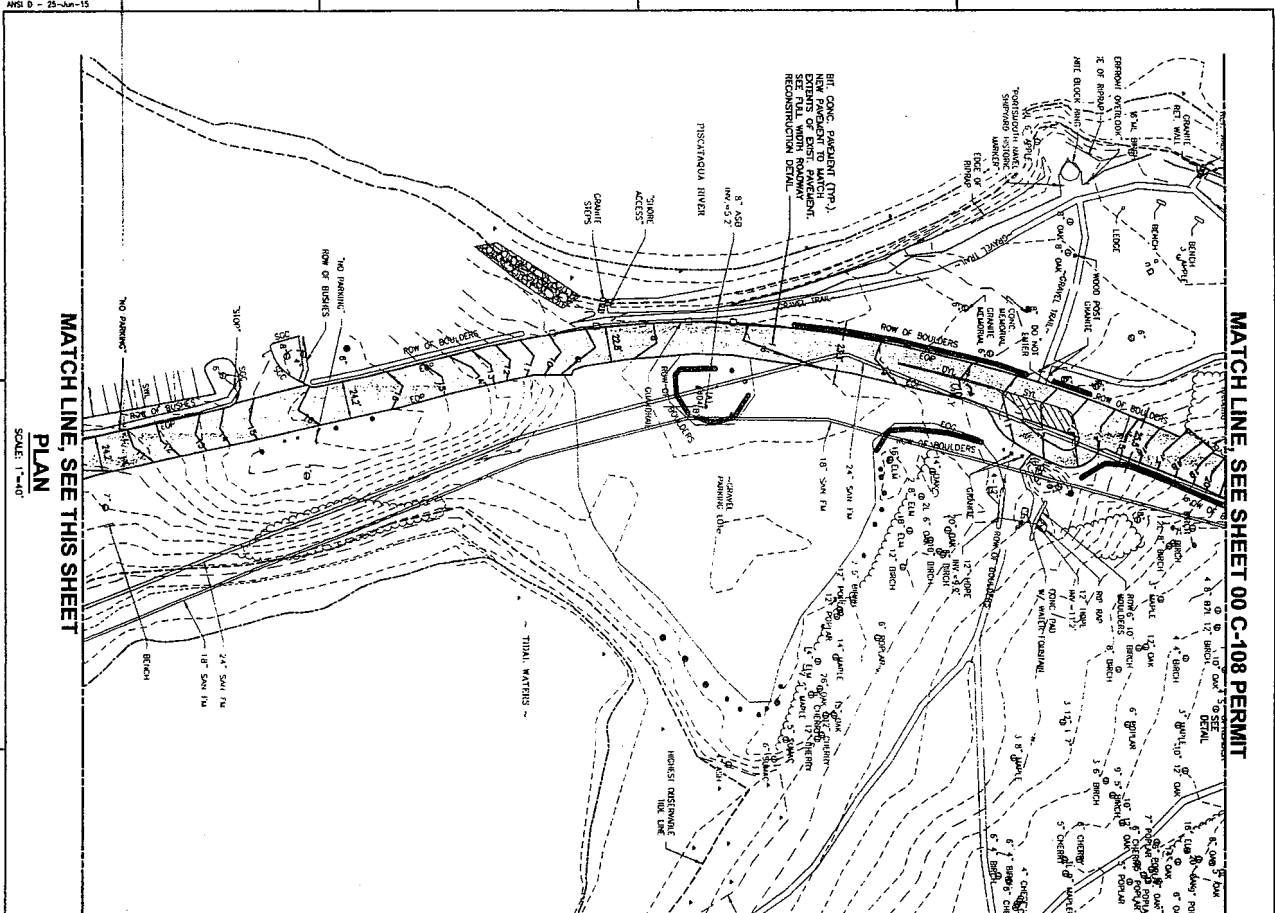
- NOTES:**
1. NOT USED.
 2. NOT USED.
 3. NOT USED.
 4. EXISTING FENCE SHOWN WITHIN DASHED LIMITS SHALL REMAIN DURING CONSTRUCTION AND SHALL BE REPLACED AT FINAL COMPLETION.
 5. ALL EXISTING GRANITE CURBING REMOVED DURING CONSTRUCTION SHALL BE STOCKPILED AND REUSED WHERE POSSIBLE WHEN CONSTRUCTING FINAL CURBING AND PAVEMENT.

PLAN
SCALE: 1"=20'

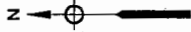


<p>PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION</p>	
<p>AECOM</p>	<p>NOVA ESCALATOR CONSTRUCTION COMPANY</p>
<p>PROJECT NO: 80301925 CAD DWG FILE: 04 C-106 - PERMIT DESIGNED BY: T. WISSELE DRAWN BY: M. YEE DEPT CHECK: C. BENDER PROJ CHECK: E. MESORNE DATE: JULY 2015 SCALE: AS NOTED</p>	
<p>CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PERICE ISLAND WHITE UPGRADE DEMOLITION PLAN III PERMITTING</p>	
<p>00 C-106 PERMIT</p>	

MS D - 20-JUL-15



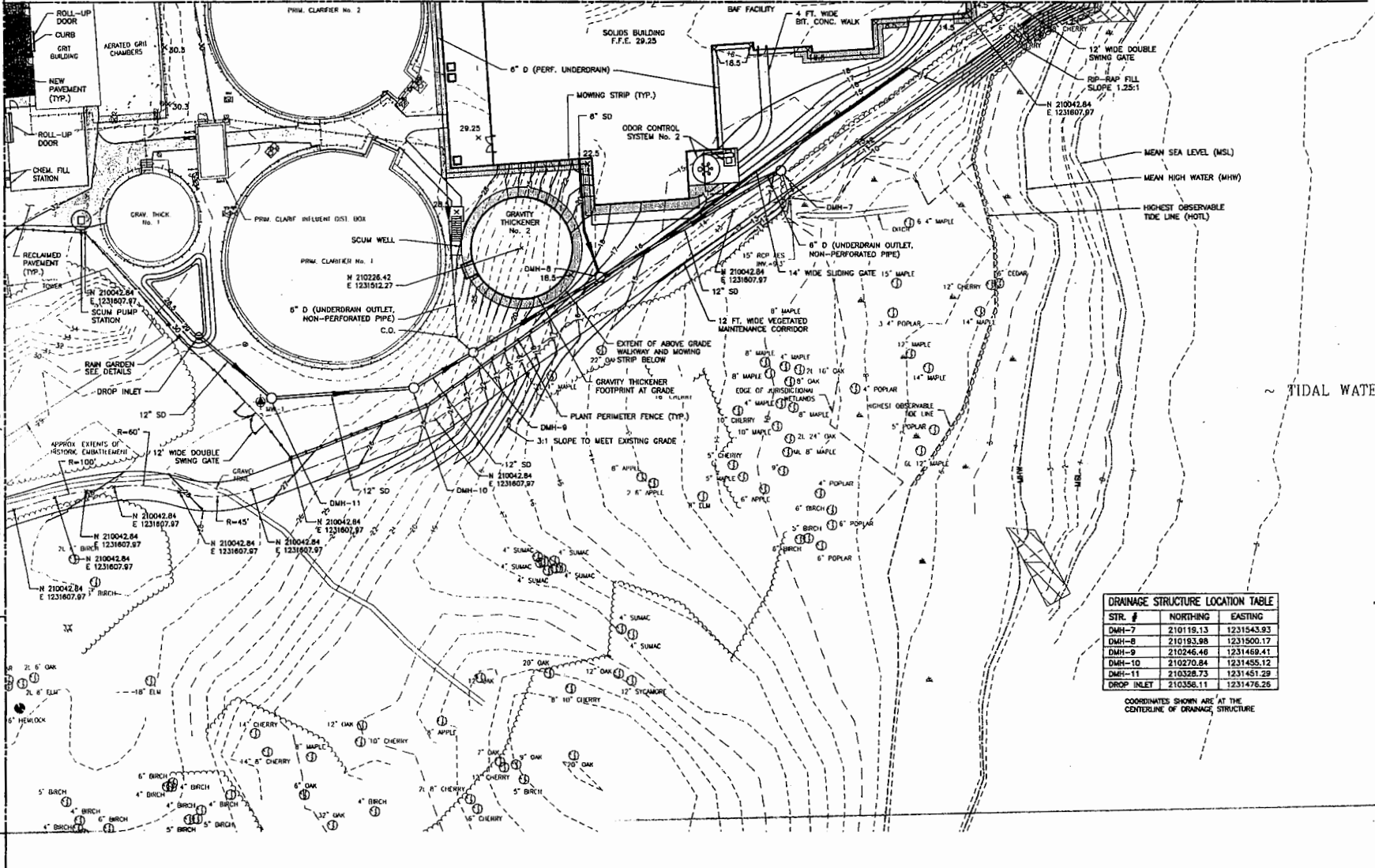
00 C-107 PERMIT SCALE: AS SHOWN	PROJECT NO. 2015-123 CONTRACT NO. 2015-123 DRAWN BY: J. BROWN CHECKED BY: E. ROBERTS DATE: JULY 2015 SCALE: AS SHOWN	CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PEIRCE ISLAND WWTF UPGRADE SITE LAYOUT, PAVING, GRADING AND DRAINAGE PLAN I PERMITTING			PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION	
					MARK DATE MADE BY CHECKED DESCRIPTION REVISIONS	



MATCH LINE, SEE SHEET 00 C-109 PERMIT

MATCH LINE, SEE SHEET 00 C-108 PERMIT

MATCH LINE, SEE SHEET 00 C-107 PERMIT

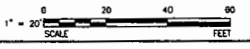


DRAINAGE STRUCTURE LOCATION TABLE

STR. #	NORTHING	EASTING
DMH-7	210119.13	1231543.93
DMH-8	210193.98	1231500.17
DMH-9	210246.46	1231469.41
DMH-10	210270.84	1231455.12
DMH-11	210328.73	1231451.29
DROP INLET	210358.11	1231476.26

COORDINATES SHOWN ARE AT THE CENTERLINE OF DRAINAGE STRUCTURE

PLAN
SCALE: 1"=20'



CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PERCE ISLAND WWTF UPGRADE
 SITE LAYOUT, PAVING, GRADING
 AND DRAINAGE PLAN IV
 PERMITTING

PROJECT NO: 80301525
 CAD DWG FILE: 00-110 - PERMIT

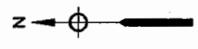
DRAWN BY: M. YEE
 DEPT CHECK: C. BOUDIER
 PROJ CHECK: E. MESERVE
 DATE: JULY 2015
 SCALE: AS NOTED

00 C-110 PERMIT

**PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION**

MARK DATE MADE BY CHECKED BY
 AECOM
 ALTIS
 NORMANDEAU

1 2 3 4 5

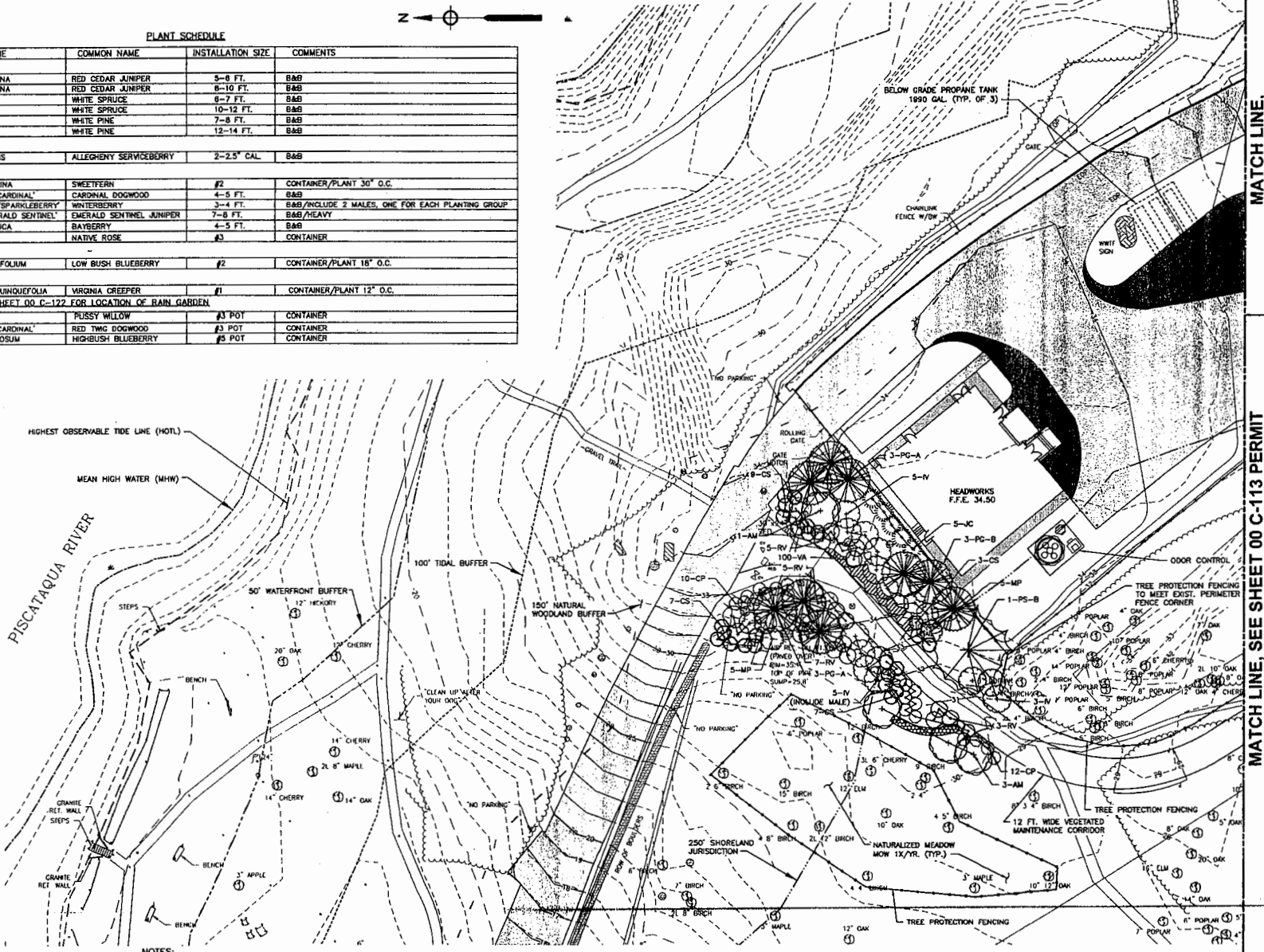


PLANT SCHEDULE

KEY ID#	QTY	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	COMMENTS
EVERGREEN TREES					
JV-A	9	JUNIPERUS VIRGINIANA	RED CEDAR JUNIPER	5-8 FT.	B&B
JV-B	20	JUNIPERUS VIRGINIANA	RED CEDAR JUNIPER	8-10 FT.	B&B
PG-A	14	PICEA GLAUCA	WHITE SPRUCE	8-7 FT.	B&B
PG-B	15	PICEA GLAUCA	WHITE SPRUCE	10-12 FT.	B&B
PS-A	3	PINUS STROBUS	WHITE PINE	7-8 FT.	B&B
PS-B	6	PINUS STROBUS	WHITE PINE	12-14 FT.	B&B
DECIDUOUS TREES					
AM	4	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	2-2.5" CAL.	B&B
SHRUBS					
CP	38	COMPANIA PERGRINA	SWEETFEARN	#2	CONTAINER/PLANT 30" O.C.
CS	26	CORNUS SERICEA 'CARDINAL'	CARDINAL DOGWOOD	4-5 FT.	B&B
IV	24	ILEX VERTICILLATA 'SPARKLEBERRY'	WINTERBERRY	3-4 FT.	B&B/INCLUDE 2 MALES, ONE FOR EACH PLANTING GROUP
JC	5	JUNIPERUS V. 'EMERALD SENTINEL'	EMERALD SENTINEL JUNIPER	7-8 FT.	B&B/HEAVY
MP	28	MYRICA PENNSYLVANICA	BAYBERRY	4-5 FT.	B&B
RV	41	ROSA VIRGINIANA	NATIVE ROSE	#3	CONTAINER
GROUND COVER					
VA	100	VACCINIUM ANGSTUFOLIUM	LOW BUSH BLUEBERRY	#2	CONTAINER/PLANT 18" O.C.
VINES					
PO	150	PARTHENOISSIS QUINQUEFOLIA	VIROGINA CREEPER	#1	CONTAINER/PLANT 12" O.C.
RAIN GARDEN PLANTS - SEE SHEET 00 C-122 FOR LOCATION OF RAIN GARDEN					
SD	2	SALIX DISCOLOR	PUSSY WILLOW	#3 POT	CONTAINER
CS	6	CORNUS SERICEA 'CARDINAL'	RED TWIG DOGWOOD	#3 POT	CONTAINER
VC	9	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	#3 POT	CONTAINER

PLANT LEGEND

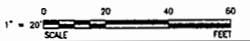
NAME	SYMBOL
MP	○
CS	○
AM	○
IV	○
CP	○
RV	○
JC	○
VC	○
PS-A	☼
PS-B	☼
JV-A	⊕
JV-B	⊕
PG-A	⊗
PG-B	⊗



NOTES:

1. ALL AREAS WITHIN THE TREATMENT PLANT PERIMETER FENCE DISTURBED BY CONSTRUCTION ACTIVITIES WHICH ARE NOT TO BE PAVED OR TO RECEIVE GRAVEL SURFACE TREATMENT OR LANDSCAPING SHALL BE PROVIDED WITH 6 INCHES OF LOAM AND SEED.

PLAN
SCALE: 1"=20'

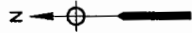


MATCH LINE, SEE SHEET 00 C-112 PERMIT

MATCH LINE, SEE SHEET 00 C-113 PERMIT

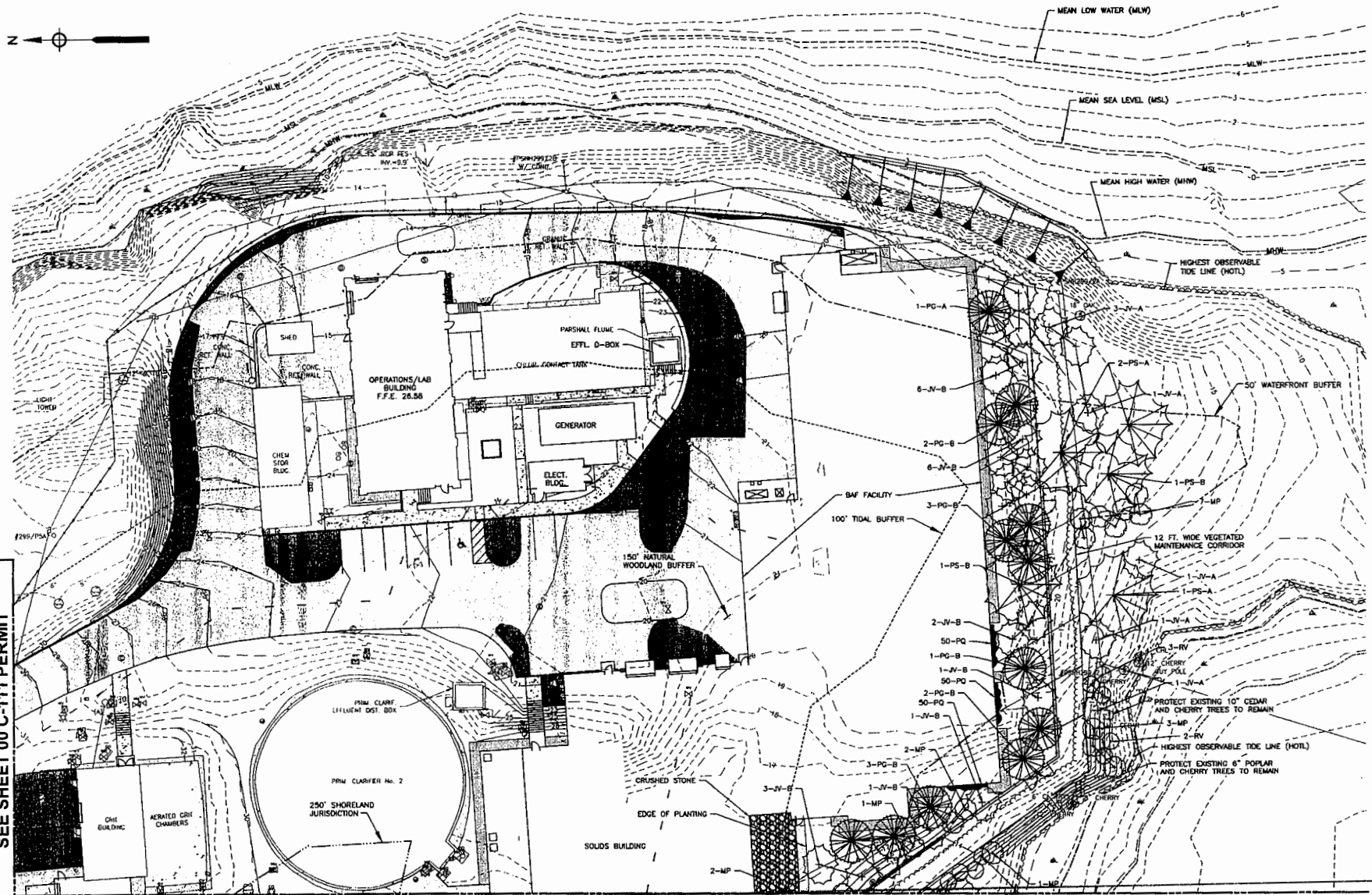
PROJECT NO: 60301225		CAD DWG FILE: 00-C-111	
DESIGNED BY: L. BLACK		DRAWN BY: Z. BANKOVIC	
DEPT CHECK: C. BENJON		PROJ CHECK: E. MESSYNE	
DATE: JULY 2015		SCALE: AS NOTED	
LANDSCAPE PLAN I			
CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS			
PERICE INSURANCE WHITE UPGRADE			
PERMITTING			
PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION			
AECOM		AITUS	
NORMANDY		NORMANDY	

POST DATE: Thursday, July 14, 2015 2:08:14 PM
ANSI D - 25-Aug-15



MATCH LINE, SEE SHEET 00 C-111 PERMIT

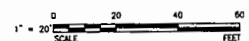
MATCH LINE, SEE SHEET 00 C-113 PERMIT



PLAN
SCALE: 1"=20'

NOTES:

1. ALL AREAS WITHIN THE TREATMENT PLANT PERIMETER FENCE DISTURBED BY CONSTRUCTION ACTIVITIES WHICH ARE NOT TO BE PAVED OR TO RECEIVE GRAVEL SURFACE TREATMENT OR LANDSCAPING SHALL BE PROVIDED WITH 6 INCHES OF LOAM AND SEED.



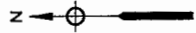
PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION



CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PERCE ISLAND WWTF UPGRADE
 LANDSCAPE PLAN II
 PERMITTING

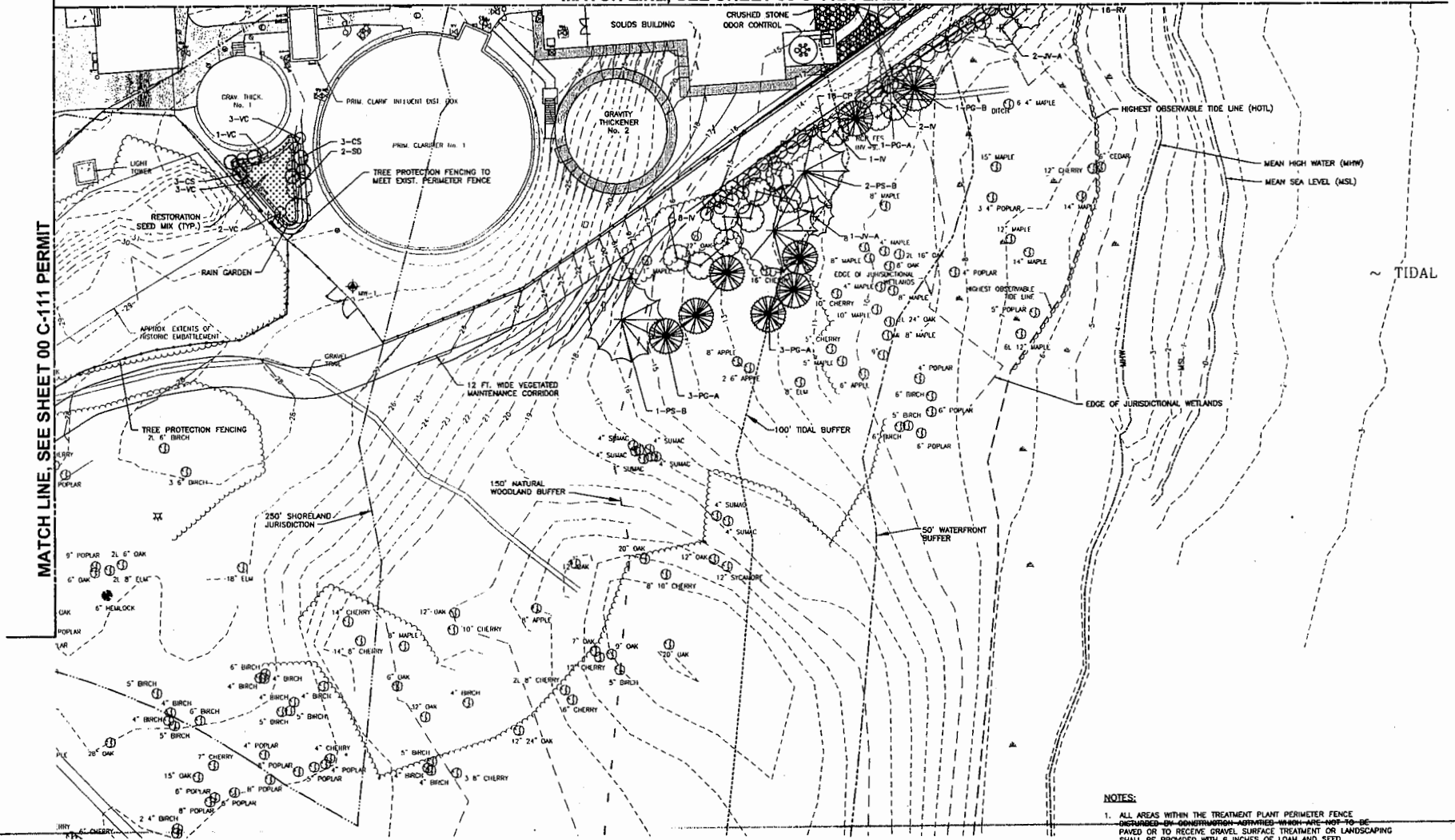
PROJECT NO: 80301923
 CAD DWG FILE: 80301923 - 00 C-112
 DESIGNED BY: L. M. BUCK
 DRAWN BY: Z. SANDOZ
 DEPT CHECK: C. SANDOZ
 PROJ CHECK: E. MESSINE
 DATE: JULY 2015
 SCALE: AS NOTED

00 C-112 PERMIT



MATCH LINE, SEE SHEET 00 C-112 PERMIT

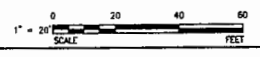
MATCH LINE, SEE SHEET 00 C-111 PERMIT



NOTES:

1. ALL AREAS WITHIN THE TREATMENT PLANT PERIMETER FENCE ~~DECLARED OR CONSIDERED~~ ~~APPROVED~~ WHICH ARE NOT TO BE PAVED OR TO RECEIVE GRAVEL SURFACE TREATMENT OR LANDSCAPING SHALL BE PROVIDED WITH 6 INCHES OF LOAM AND SEED.

PLAN
SCALE: 1"=20'



PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION

AECOM

NORWALK COUNTY

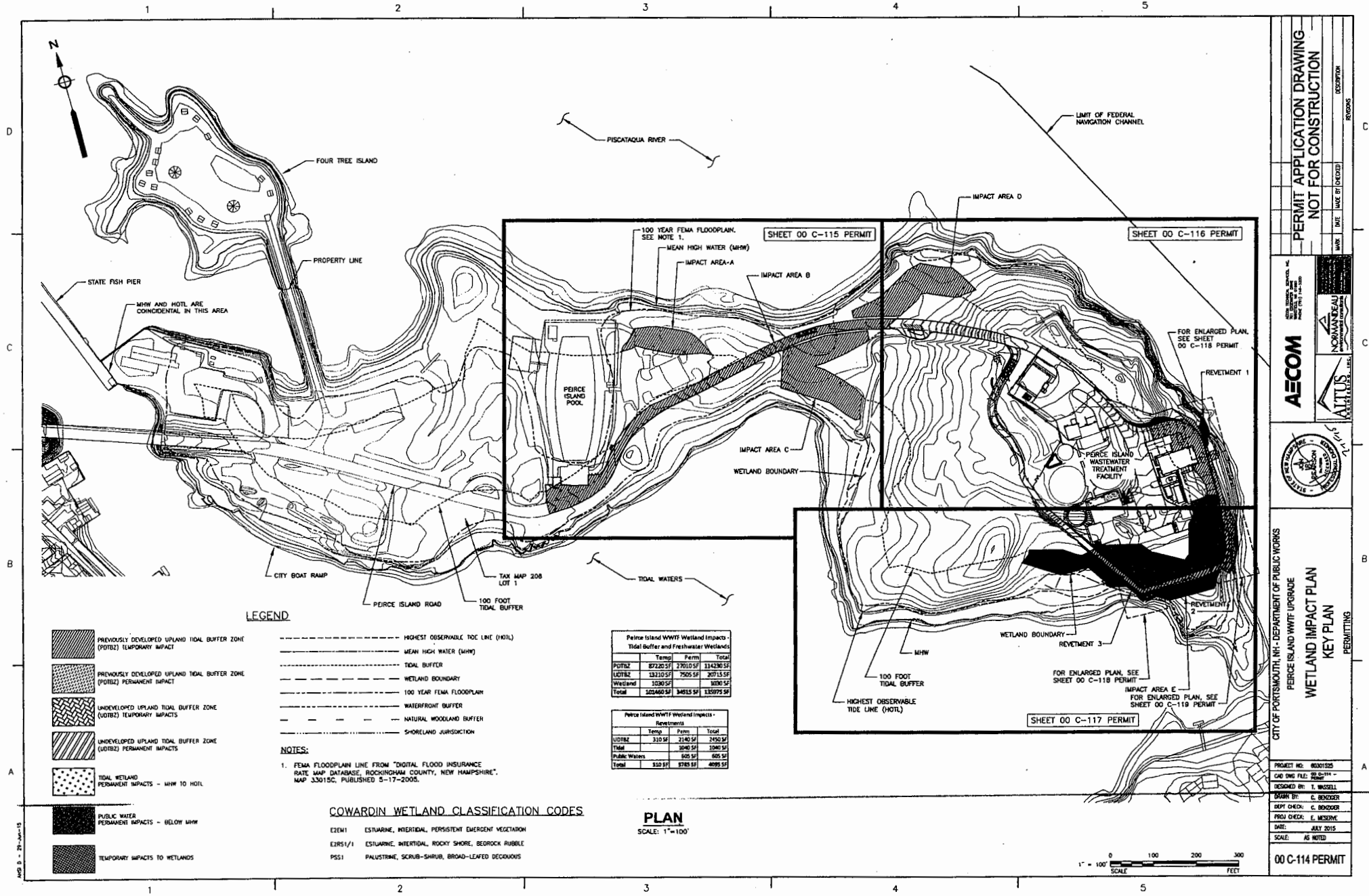
ALTT'S

CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PEIRCE ISLAND WWTF UPGRADE
LANDSCAPE PLAN III

PERMITTING

PROJECT NO: 00301325
 CAD LONG FILE: 00-113 -
 DESIGNED BY: L. BLAKE
 DRAWN BY: Z. BARKER
 DEPT CHECK: C. BOZDOR
 PROJ CHECK: E. MESERVE
 DATE: JULY 2015
 SCALE: AS NOTED

00 C-113 PERMIT



LEGEND

- PREVIOUSLY DEVELOPED UPLAND TIDAL BUFFER ZONE (PDTBZ) TEMPORARY IMPACT
- PREVIOUSLY DEVELOPED UPLAND TIDAL BUFFER ZONE (PDTBZ) PERMANENT IMPACT
- UNDEVELOPED UPLAND TIDAL BUFFER ZONE (UDTBZ) TEMPORARY IMPACTS
- UNDEVELOPED UPLAND TIDAL BUFFER ZONE (UDTBZ) PERMANENT IMPACTS
- TIDAL WETLAND PERMANENT IMPACTS - MHW TO HOTEL
- PUBLIC WATER PERMANENT IMPACTS - BELOW MHW
- TEMPORARY IMPACTS TO WETLANDS
- HIGHEST OBSERVABLE TIDE LINE (HOTL)
- MEAN HIGH WATER (MHW)
- TIDAL BUFFER
- WETLAND BOUNDARY
- 100 YEAR FEMA FLOODPLAIN
- WATERFRONT BUFFER
- NATURAL WOODLAND BUFFER
- SHORELAND JURISDICTION

NOTES:
 1. FEMA FLOODPLAIN LINE FROM "DIGITAL FLOOD INSURANCE RATE MAP DATABASE, ROCKINGHAM COUNTY, NEW HAMPSHIRE", MAP 33015C, PUBLISHED 5-17-2005.

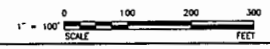
COWARDIN WETLAND CLASSIFICATION CODES

- E2EM1 ESTUARINE, INTERTIDAL, PERSISTENT EMERGENT VEGETATION
- E2RS1/1 ESTUARINE, INTERTIDAL, ROCKY SHORE, BEDROCK RUBBLE
- PSS1 PALUSTRINE, SCRUB-SHRUB, BROAD-LEAFED DECIDUOUS

	Temp	Perm	Total
PDTBZ	87220 SF	27010 SF	114230 SF
UDTBZ	13210 SF	7505 SF	20715 SF
Wetland	10230 SF	3020 SF	13250 SF
Total	105460 SF	34515 SF	139975 SF

	Temp	Perm	Total
UDTBZ	310 SF	2140 SF	2450 SF
Tidal	3040 SF	3040 SF	6080 SF
Public Waters	605 SF	605 SF	1210 SF
Total	3310 SF	3785 SF	7095 SF

PLAN
 SCALE: 1"=100'



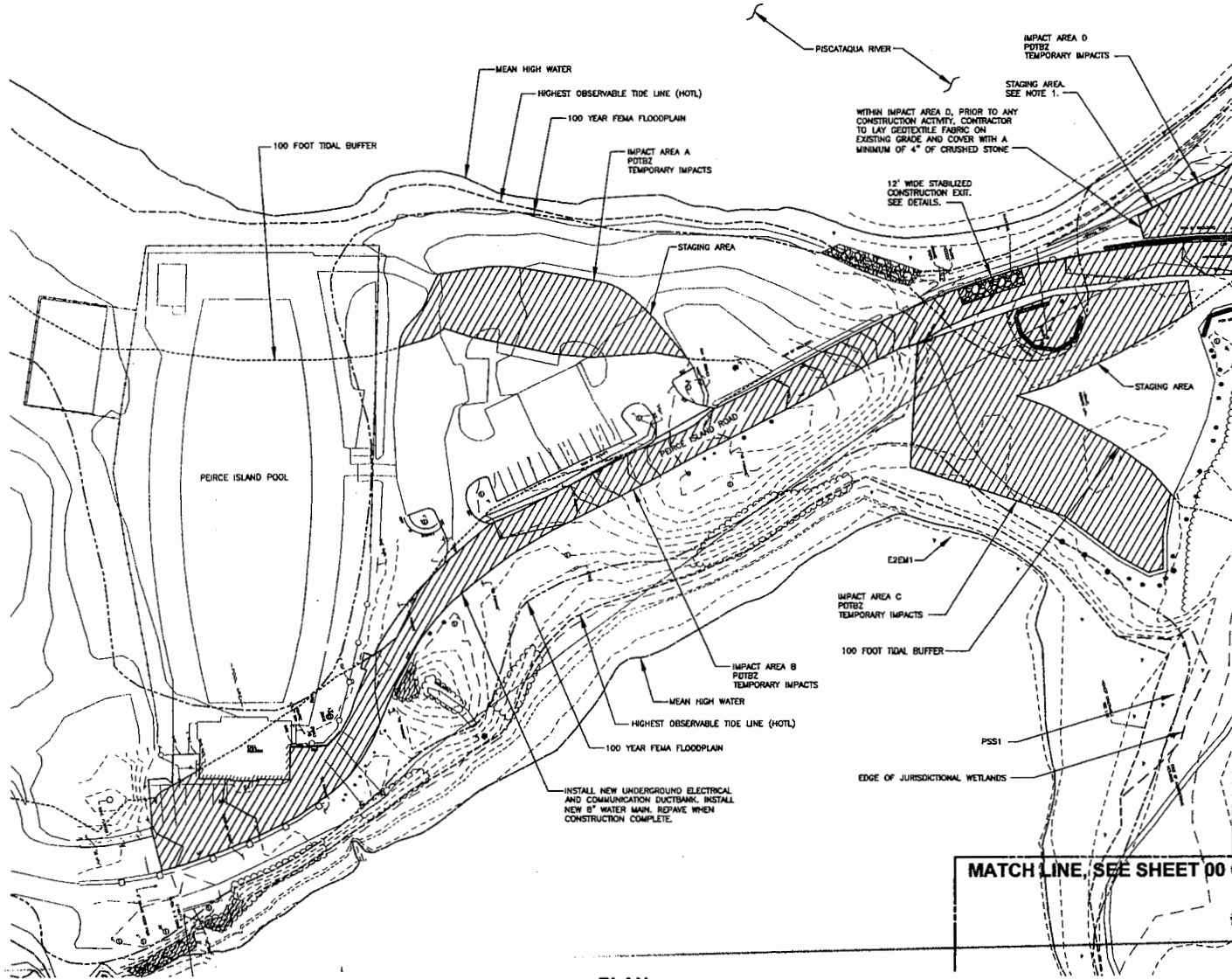
PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION

WETLAND IMPACT PLAN KEY PLAN

CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PEIRCE ISLAND WWTF UPGRADE

PROJECT NO: 0001025
 CAD DWG FILE: 0001114
 DESIGNED BY: T. WASSILL
 DRAWN BY: C. BRONDER
 DEPT CHECK: C. BRONDER
 PROJ CHECK: E. MESSINE
 DATE: JULY 2015
 SCALE: AS NOTED

00 C-114 PERMIT

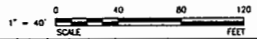


MATCH LINE, SEE SHEET 00 C-116 PERMIT

MATCH LINE, SEE SHEET 00 C-117 PERMIT

PLAN
SCALE: 1" = 40'

NOTES:
1. AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES, CONTRACTOR TO SCARIFY TOP 4" OF EXISTING SOIL IN THE STAGING AREAS AND TOP WITH 2" OF COMPOSTED LOAM AND SEED.



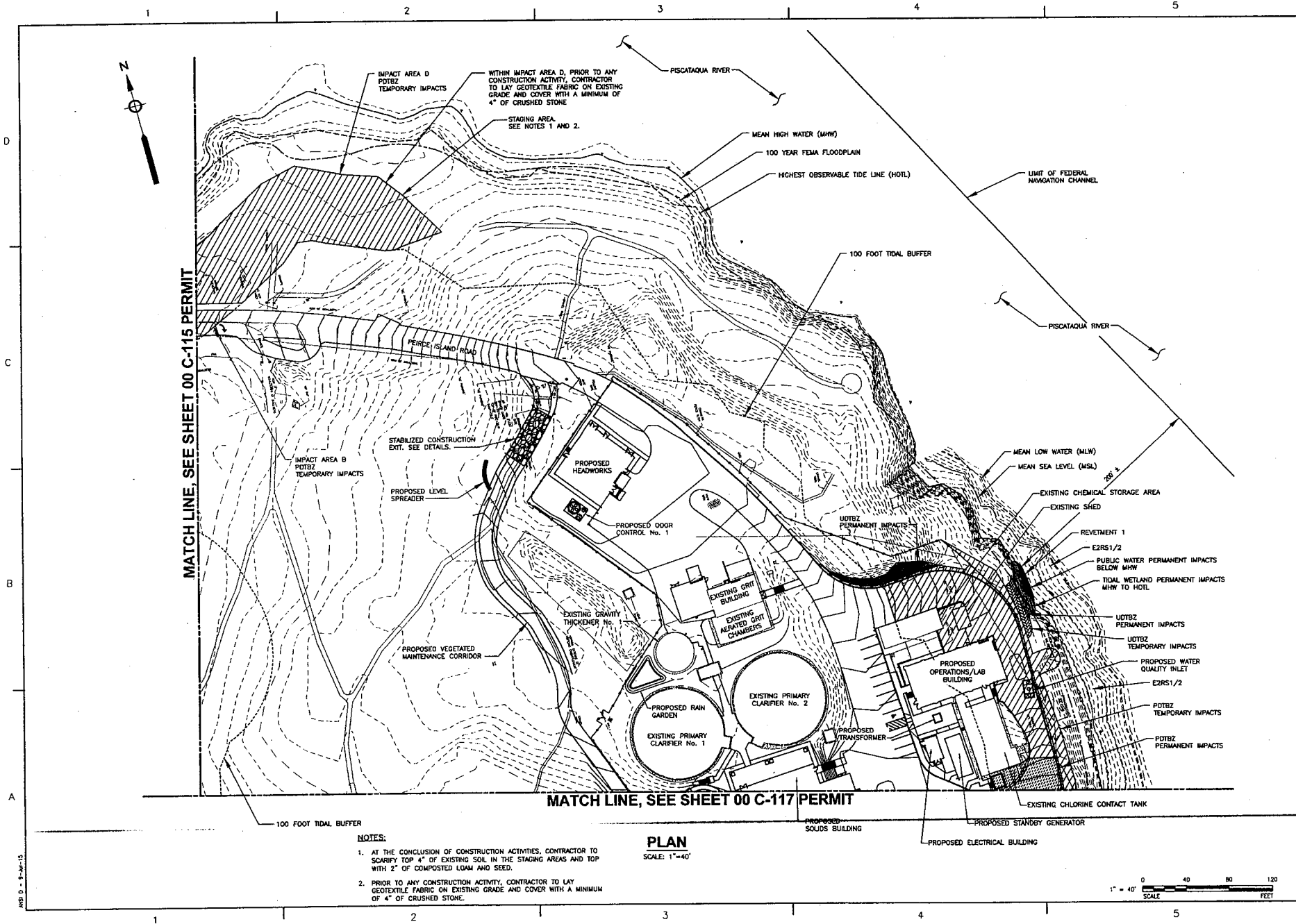
**PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION**



CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PEIRCE ISLAND WWTP UPGRADE
WETLAND IMPACT PLAN I
 PERMITTING

PROJECT NO: 0001025
 CAD DWG FILE: 00 C-116
 DESIGNED BY: E. WASSILL
 DRAWN BY: C. BOESCH
 DEPT CHECK: C. BOESCH
 PROJ. CHECK: E. WASSILL
 DATE: JULY 2015
 SCALE: AS NOTED

00 C-115 PERMIT



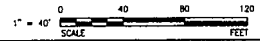
MATCH LINE, SEE SHEET 00 C-115 PERMIT

MATCH LINE, SEE SHEET 00 C-117 PERMIT

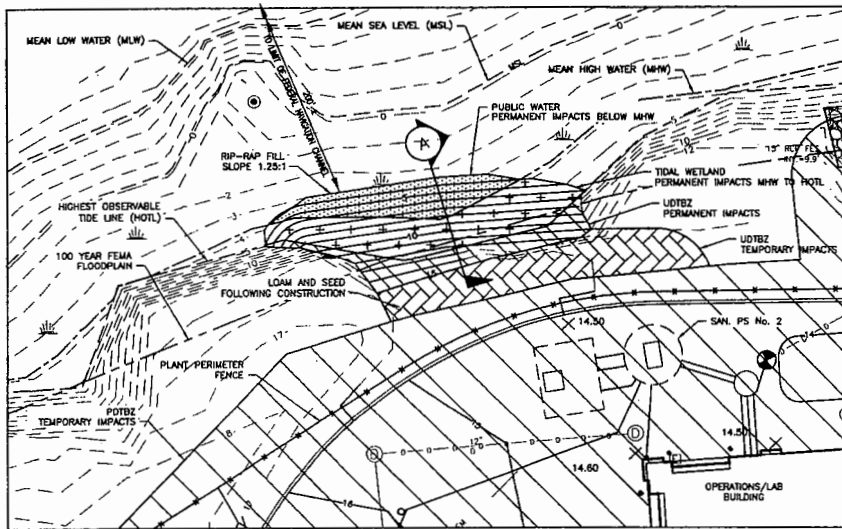
NOTES:

1. AT THE CONCLUSION OF CONSTRUCTION ACTIVITIES, CONTRACTOR TO SCARIFY TOP 4" OF EXISTING SOIL IN THE STAGING AREAS AND TOP WITH 2" OF COMPOSTED LEAH AND SEED.
2. PRIOR TO ANY CONSTRUCTION ACTIVITY, CONTRACTOR TO LAY GEOTEXTILE FABRIC ON EXISTING GRADE AND COVER WITH A MINIMUM OF 4" OF CRUSHED STONE.

PLAN
SCALE: 1"=40'

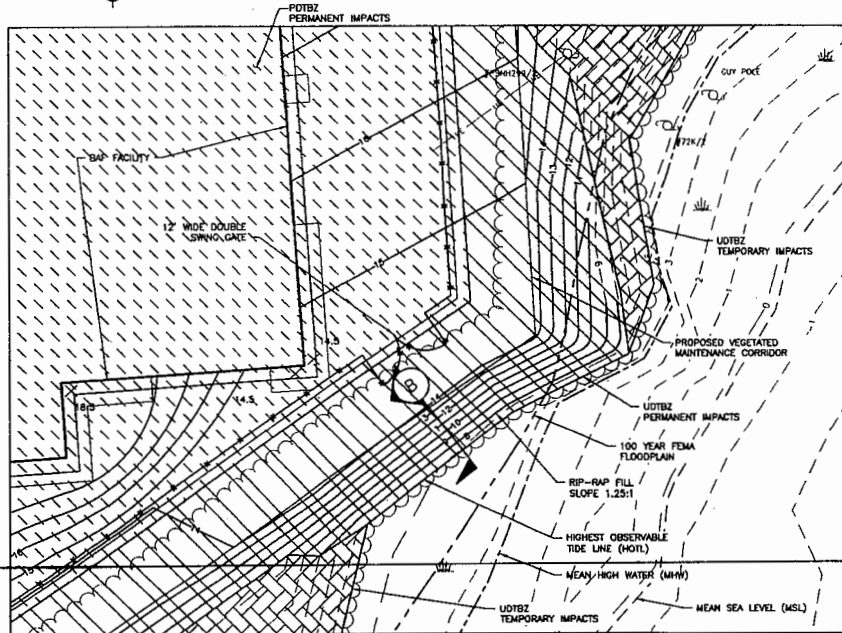


<p>PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION</p>	<p>NOVA EASTERN UNIVERSITY UNIVERSITY OF PORTSMOUTH UNIVERSITY OF NEW HAMPSHIRE UNIVERSITY OF VERMONT UNIVERSITY OF WISCONSIN</p>
<p>AECOM</p>	<p>ALTUS</p>
<p>CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PEIRCE ISLAND WWTF UPGRADE</p>	
<p>WETLAND IMPACT PLAN II</p>	
<p>PERMITTING</p>	
<p>PROJECT NO: 6001525 CAD FILE: 22-C-116 DESIGNED BY: T. WASSILL DRAWN BY: C. BENZGER DEPT CHECK: C. BENZGER PROJ CHECK: E. WESERVE DATE: JULY 2015 SCALE: AS NOTED</p>	
<p>00 C-116 PERMIT</p>	



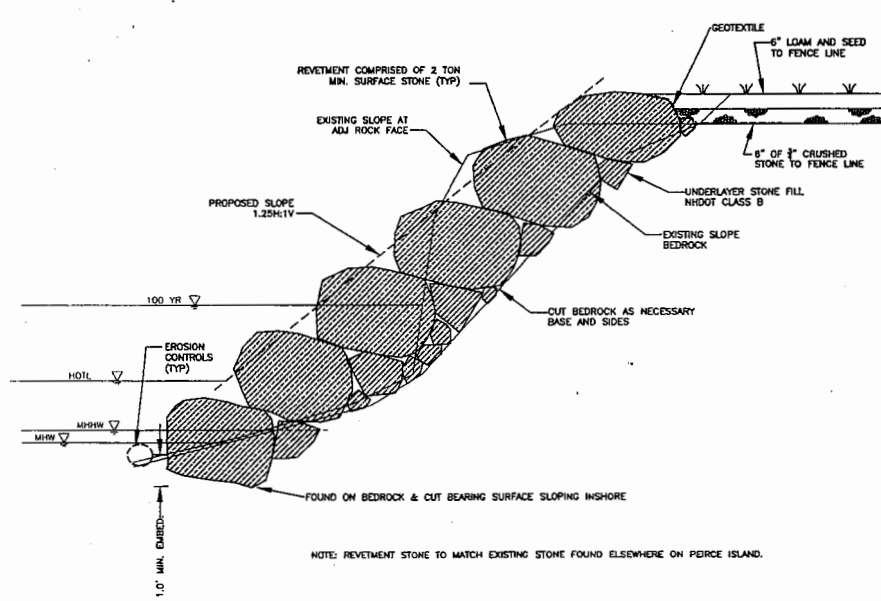
REVETMENT 1 PLAN

SCALE: 1"=10'



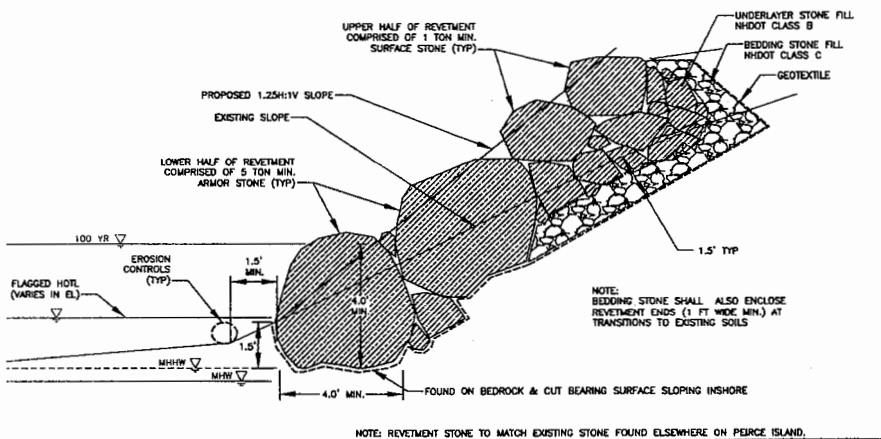
REVETMENT 3 PLAN

SCALE: 1"=10'



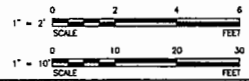
SECTION A

SCALE: 1"=2'



SECTION B

SCALE: 1"=2'



PERMIT APPLICATION DRAWING
 NOT FOR CONSTRUCTION

AECOM
 1155 WEST 17TH AVENUE
 SUITE 1000
 DENVER, CO 80202

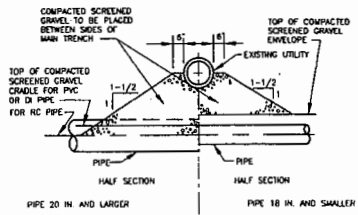
NORMANZEAU
 1155 WEST 17TH AVENUE
 SUITE 1000
 DENVER, CO 80202

AITUIS
 1155 WEST 17TH AVENUE
 SUITE 1000
 DENVER, CO 80202

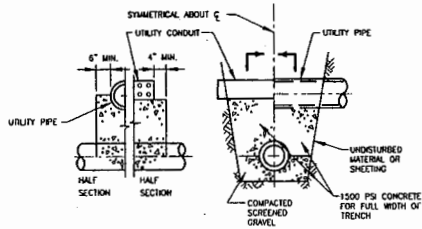
CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PEIRCE ISLAND WHARF UPGRADE
 ENLARGED PLANS AND SECTIONS
 REVETMENT AREAS 1

PROJECT NO: 60301025
 CAD DWG FILE: REVETMENT -
 (ISSUED BY: J. HERRON)
 DRAWN BY: C. BENDZER
 DEPT. CHGR: C. BENDZER
 PROJ. CHGR: E. WEDRINE
 DATE: JULY 2015
 SCALE: AS NOTED

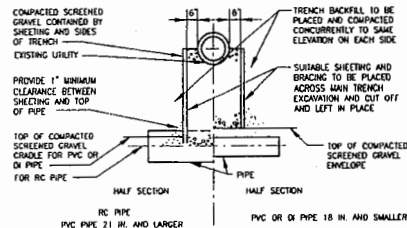
00 C-118 PERMIT



TYPE A



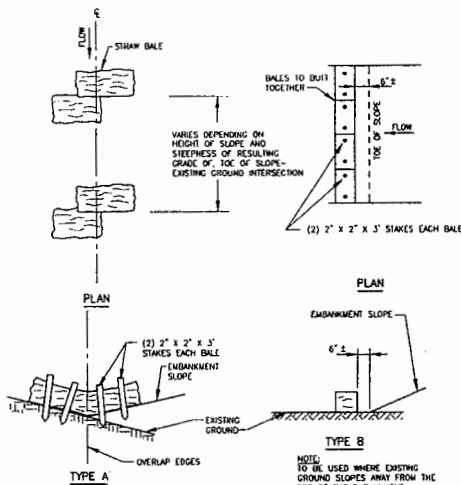
TYPE C



TYPE B

TYPICAL SUPPORTS FOR UTILITIES

NOT TO SCALE
2-1.8 (REV. 03-15-95)

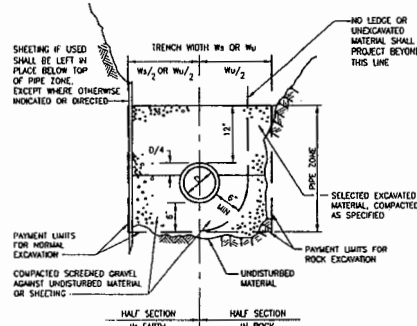


TYPE A

TYPE B

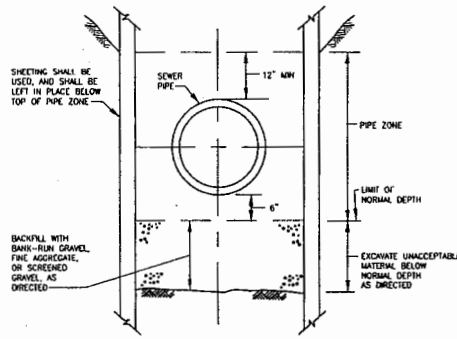
STRAW BALE EROSION CONTROL

NTS
2-1.60.4 (REV. 09-29-95)



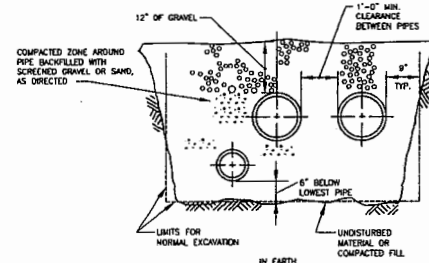
TRENCH SECTION FOR DI OR PVC PIPE 20 INCH DIAMETER AND LARGER

NOT TO SCALE
2-1.1.2 (REV. 03-15-95)



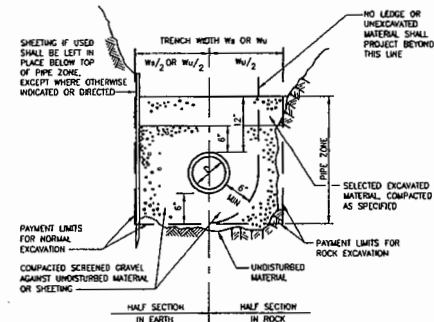
TRENCH SECTION IN UNACCEPTABLE MATERIAL

NOT TO SCALE
2-1.1.21 (REV. 03-15-95)



MULTIPLE PIPE TRENCH SECTION

NOT TO SCALE



TRENCH SECTION FOR PIPE 18 INCH DIAMETER AND SMALLER

NOT TO SCALE

NOMINAL PIPE DIAMETER	TRENCH WIDTH W_s OR W_u			
	DEPTH OF PIPE INVERT BELOW GROUND SURFACE 0	12'	10' TO 20'	>20'
24" AND SMALLER	5'-0"	7'-0"	9'-0"	
OVER 24"	0 + 3'-0"	0 + 5'-0"	0 + 7'-0"	

- PIPE TRENCHES MAY BE EXCAVATED WIDER THAN TRENCH WIDTH W_s (SHEETED) OR W_u (UNSHEETED) ABOVE THE TOP OF PIPE ZONE.
- TRENCHES SHALL NOT BE EXCAVATED BEYOND THE TRENCH WIDTH W_u BELOW THE TOP OF PIPE ZONE.
- SHEETING MUST BE USED IF EXCAVATION AND BACKFILL BELOW NORMAL DEPTH IS REQUIRED. SHEETING SHALL BE LEFT IN PLACE BELOW A LINE 1'-0" ABOVE THE TOP OF PIPE.

GENERAL NOTES FOR PIPE TRENCHES

NOT TO SCALE
2-1.1.13 (REV. 10-23-95)

PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION

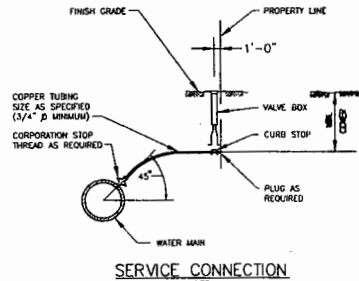
AECOM

ATLANTIS

CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PEIRCE ISLAND WHARF UPGRADE
DETAILS I
PERMITTING

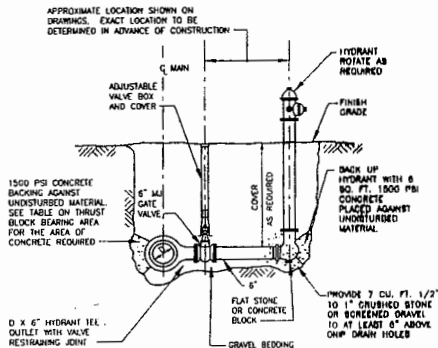
PROJECT NO: 8030125
CDD DWG FILE: 80-0-125-0001
DRAWN BY: M. IVE
DEPT CHECK: C. ROSSER
PROJ CHECK: G. LESZNE
DATE: JULY 2010
SCALE: AS NOTED

00 C-120 PERMIT



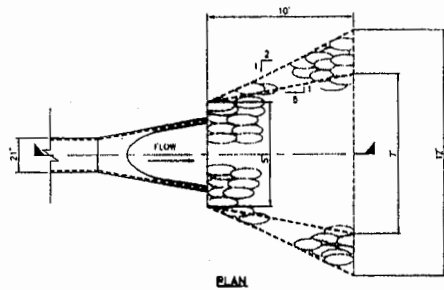
SERVICE CONNECTION

2-1.20 (REV. 12-15-94)



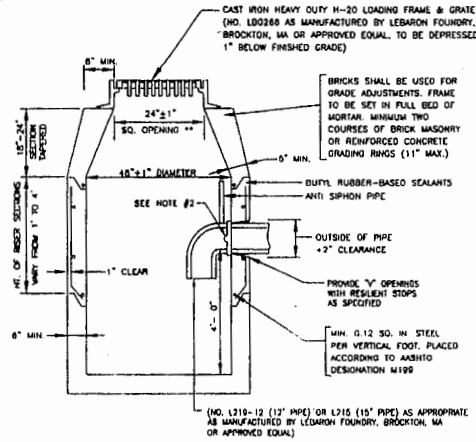
FIRE HYDRANT ASSEMBLY WITH DRAIN

2-1.21 (REV. 12-15-94)



STORMWATER OUTFALL DETAIL

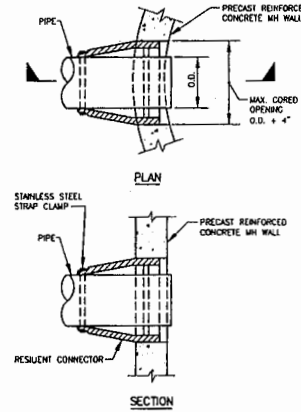
NOT TO SCALE



PRECAST CONCRETE CATCHBASIN WITH OIL/WATER SEPARATOR

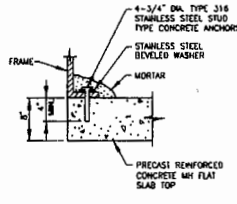
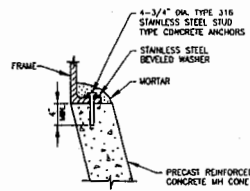
NOT TO SCALE

- NOTES:
1. BASE AND JOINT DETAILS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02501
 2. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
 3. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHOD, SEE SPECIFICATIONS.
 4. PRECAST CONCRETE H-20 LOADING.



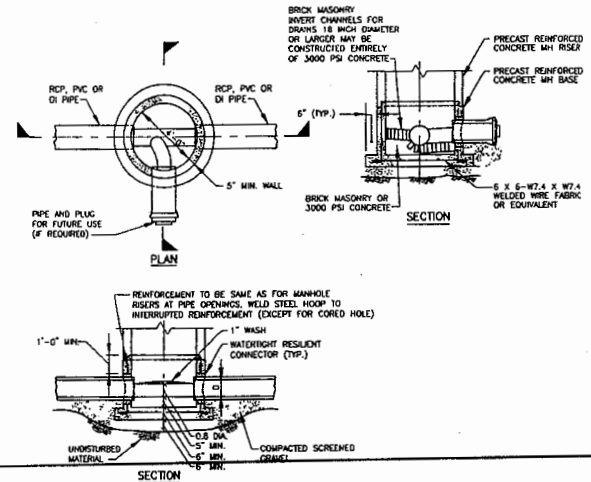
WATERTIGHT RESILIENT CONNECTOR FOR CONNECTING PIPES TO PRECAST CONCRETE MANHOLES

NOT TO SCALE
2-1.5.02.1 (REV. 4-5-96)



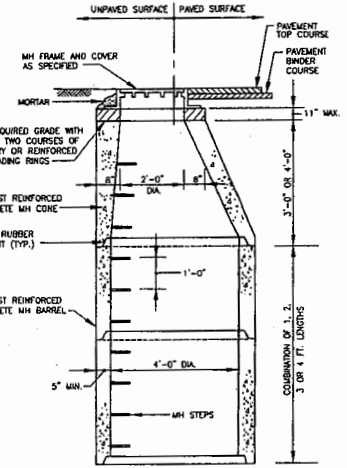
ANCHOR BOLT DETAILS FOR FRAMES FOR MANHOLE TOPS

NOT TO SCALE



4'-0" PRECAST REINFORCED CONCRETE MANHOLE BASE FOR SEWER/DRAIN MANHOLES

NOT TO SCALE



4'-0" SEWER/DRAIN MANHOLE RISER WITH ECCENTRIC CONE TOP

NOT TO SCALE

PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION

AECOM

TOTAL PROJECT COST: \$1,000,000
 PROJECT NO: 0001125
 PROJECT NAME: PEIRCE ISLAND WWTFF UPGRADE

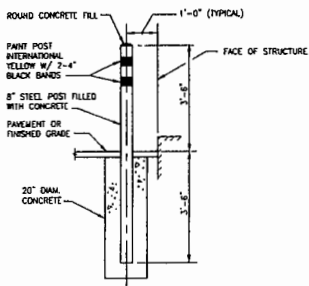
ATKINS

DETAILS II

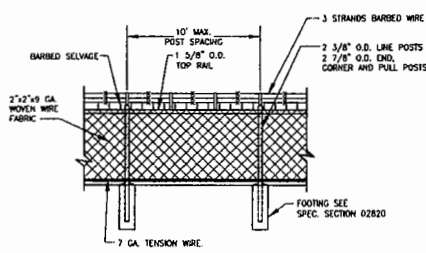
CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PEIRCE ISLAND WWTFF UPGRADE

PROJECT NO: 0001125
 CAD DWG FILE: 00-01-101-00001
 DESIGNED BY: T. WISSELL
 DRAWN BY: H. YEE
 DPT CHECK: C. BOZZER
 PROJ CHECK: E. WEDRINE
 DATE: JULY 2015
 SCALE: AS NOTED

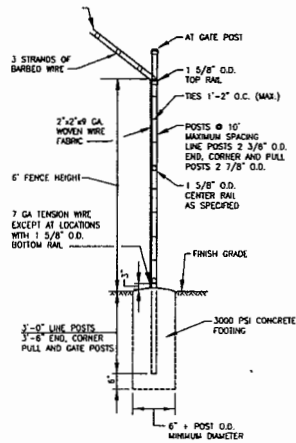
00 C-121 PERMIT



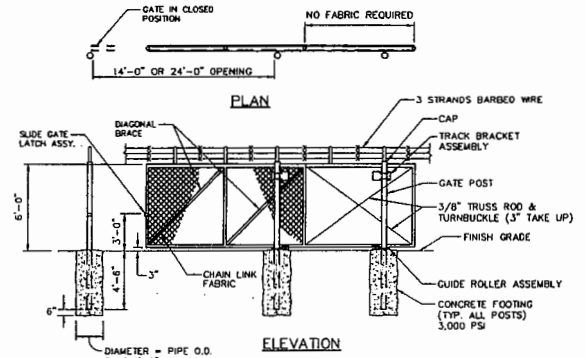
GUARD POST
NOT TO SCALE
2-1.44.1 (REV. 12-22-05)



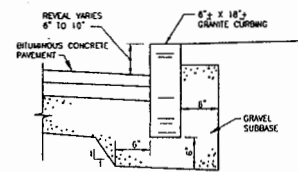
6' HEIGHT CHAIN LINK FENCE ELEVATION
NOT TO SCALE
2-1.45.1.2 (REV. 12-15-94)



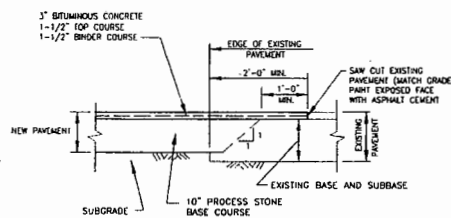
CHAIN LINK FENCE SECTION
NOT TO SCALE
2-1.45.2.1 (REV. 12-15-94)



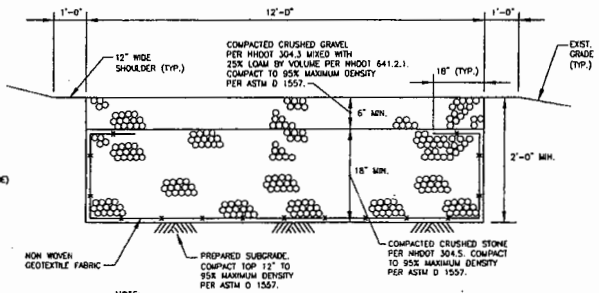
CANTILEVER SLIDING GATE
NOT TO SCALE



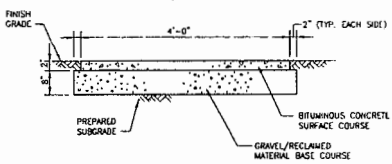
GRANITE CURB
NOT TO SCALE
2-1.42.7 (REV. 12-15-94)



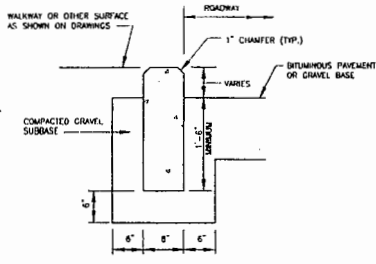
TYPICAL FORMAT OF PAVEMENT MATCHING DETAIL
N.T.S.



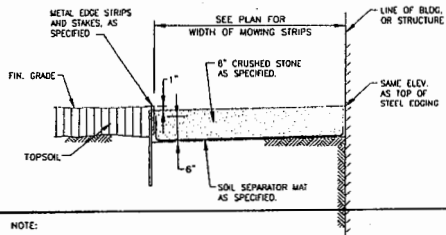
12' WIDE VEGETATED MAINTENANCE CORRIDOR SECTION
N.T.S.



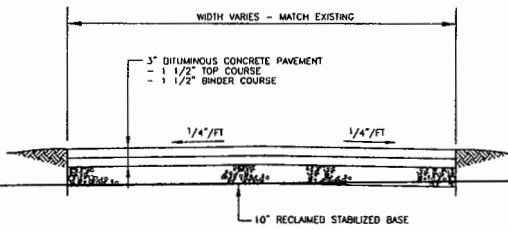
BITUMINOUS CONCRETE WALKWAY SECTION
NOT TO SCALE
2-1.41.2 (REV. 12-15-94)



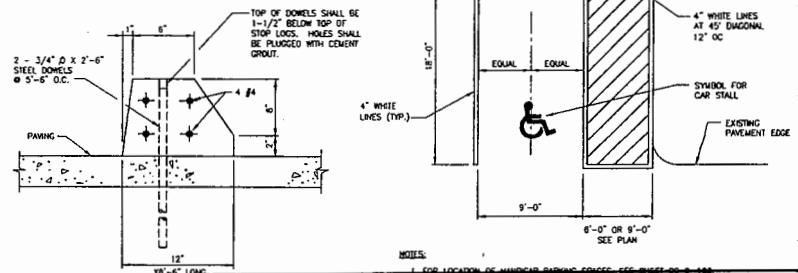
CONCRETE CURB
NOT TO SCALE
2-1.42.2 (REV. 12-15-94)



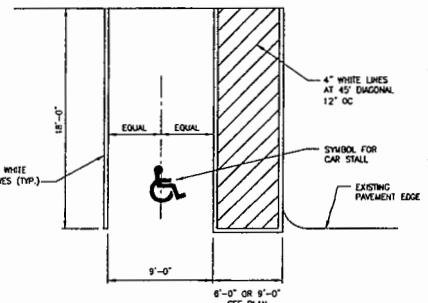
MOWING STRIP DETAIL
N.T.S.



FULL WIDTH ROADWAY RECONSTRUCTION
NOT TO SCALE



CONCRETE STOP LOG (PARKING BUMPER)
NOT TO SCALE
2-1.44.2 (REV. 12-15-94)

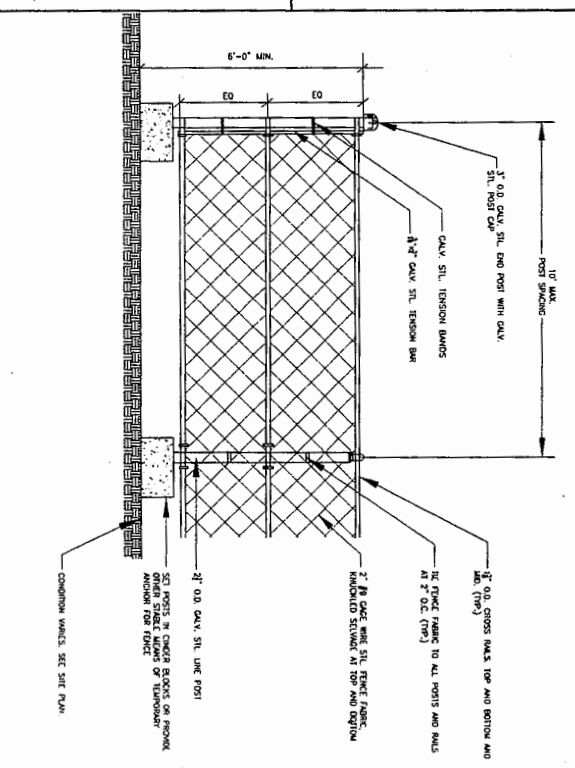


STANDARD AND HANDICAP PARKING SPACE
NOT TO SCALE

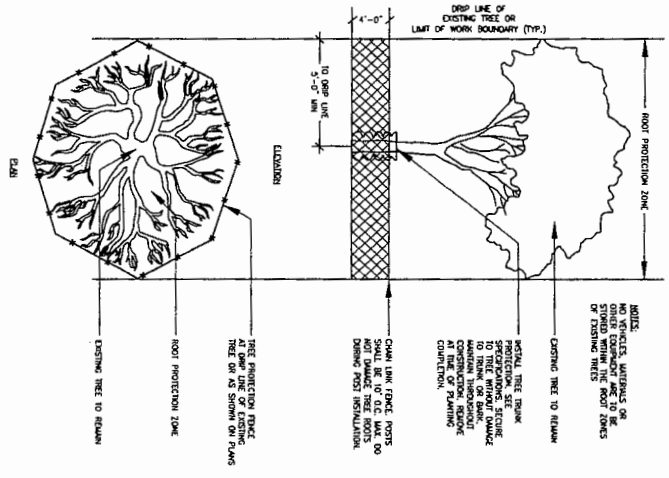
PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION
 AECOM
 CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PEIRCE ISLAND WWTP UPGRADE
 PROJECT NO: 80011325
 CAD ENG FILE: 80 0-180-00004
 DESIGNED BY: T. WISSELL
 DRAWN BY: N. YEE
 SOFT CHECK: C. BENDER
 P&M CHECK: E. WESBERG
 DATE: JULY 2015
 SCALE: AS NOTED
 00 C-122 PERMIT
 PERMITTING

1 2 3 4 5

CHAIN LINK CONSTRUCTION SAFETY FENCE AND TREE PROTECTION FENCE



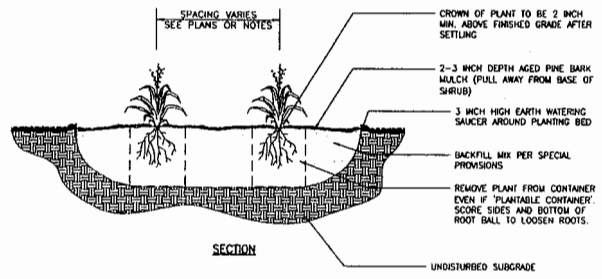
TREE PROTECTION



NOTES:
1. ALL UTILITIES OR OTHER EXISTING UTILITY LOCATIONS SHALL BE IDENTIFIED AND MARKED PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
3. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
5. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
7. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
9. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
11. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
13. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
15. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.

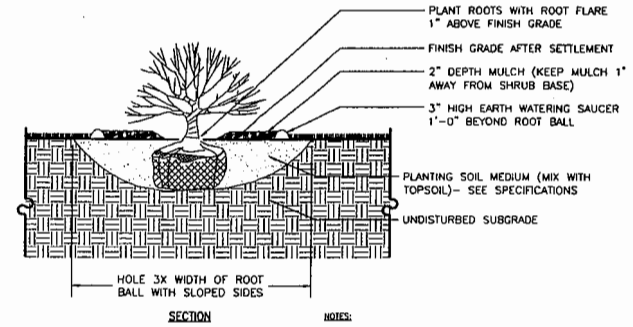
1. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO EXISTING WORK. CONTRACTOR TO VERIFY THAT ALL UTILITIES ARE DEPTH FROM TO EXISTING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
3. ALL UTILITIES SHALL BE IDENTIFIED AND MARKED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
4. ALL UTILITIES SHALL BE IDENTIFIED AND MARKED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
5. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
7. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
9. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
11. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
13. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.
15. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TREE TO REMAIN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORTSMOUTH, NH.

CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS PEIRCE ISLAND WWTF UPGRADE DETAILS IV PERMITTING			PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION
PROJECT NO. 00000000 DATE: 04/15/15 DRAWN BY: N. VET CHECKED BY: C. BOZON DATE: MAY 2015 SCALE: AS SHOWN	PROJECT NO. 00000000 DATE: 04/15/15 DRAWN BY: N. VET CHECKED BY: C. BOZON DATE: MAY 2015 SCALE: AS SHOWN	MARK DATE MADE BY (CHECKED) REVISIONS	DESCRIPTION



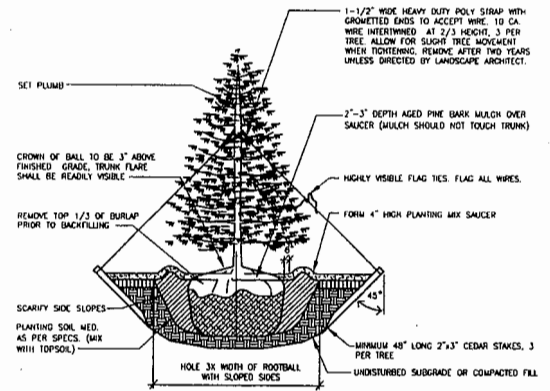
- NOTES:**
1. EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING MIX.
 2. RAISE AND REPLANT ANY PLANTS THAT SETTLE MORE THAN 3 INCHES AFTER PLANTING AND WATERING IN.
 3. WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING. WATER & MAINTAIN AS PER STANDARD SPECIFICATIONS.

PERENNIAL PLANTING
NTS

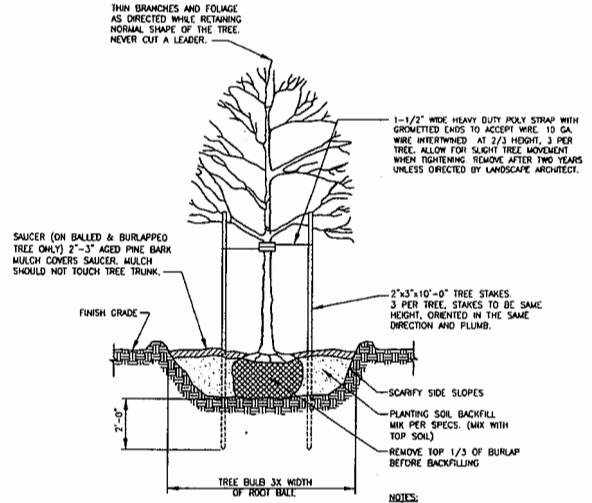


- NOTES:**
1. SCARIFY SOIL CONTINUOUSLY TO A DEPTH OF 4" AT INTERFACE BETWEEN SOIL TYPES AND LIFTS TO PROMOTE BLENDING OF SOILS.
 2. SEE PLANT LIST AND PLANS FOR SPACING.

SHRUB PLANTING
NTS



EVERGREEN TREE PLANTING
NTS

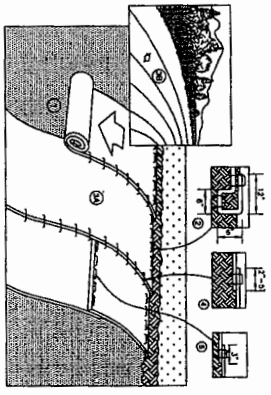


- NOTES:**
1. TREE SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IN THE NURSERY.
 2. TREE SHALL BE STRAIGHT AND PLUMB.

DECIDUOUS TREE PLANTING
NTS

PERMIT APPLICATION DRAWING NOT FOR CONSTRUCTION	
DATE: _____	DESCRIPTION: _____
MARK: _____	ISSUES: _____
AECOM	
DETAILS V	
CITY OF FORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS	
PERMITS	
PROJECT NO: 06201525	
CAD DWG FILE: 06 C-124-0000.dwg	
DESIGNED BY: T. MUSELL	
DRAWN BY: M. HILL	
DOT CHECK: C. BENZINGER	
FIELD CHECK: E. MESSING	
DATE: JULY 2015	
SCALE: AS NOTED	
00 C-124 PERMIT	

PLAN DATE: December, 2014 11:28:43 AM
 AHS 0.0 - 25-07-15



EROSION CONTROL BLANKET SLOPE INSTALLATION
 NOT TO SCALE

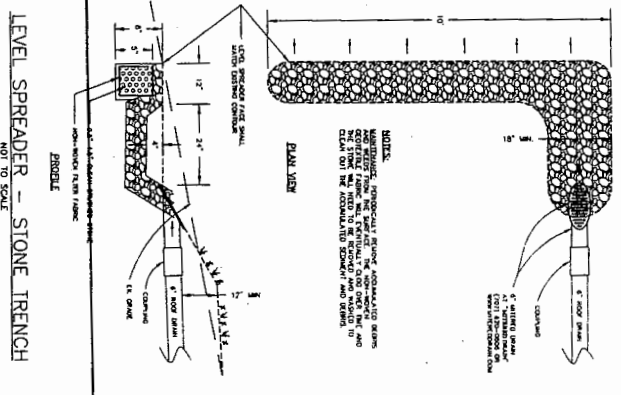
1. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. SHOW AT THE TOP OF THE SLOPE AN APPROXIMATE 1/4" DEPTH BY 4" WIDE STRIP OF THE BLANKET TO BE PLACED OVER THE EXISTING SURFACE. THE STRIP SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE BLANKET SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE BLANKET SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. CONCRETE BARRIERS SHALL BE INSTALLED AT THE TOP OF THE SLOPE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.



LEVEL SPREADER - STONE TRENCH
 NOT TO SCALE

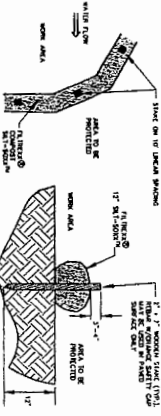
1. LEVEL SPREADER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. THE SPREADER SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE SPREADER SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE SPREADER SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. THE SPREADER SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.



FILIREXX STAKING DETAILS
 NOT TO SCALE

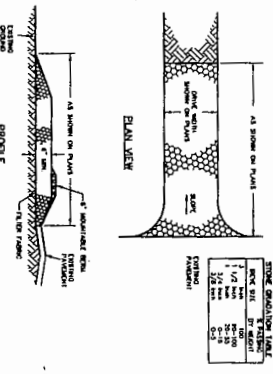
1. FILIREXX MATTING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. THE MATTING SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE MATTING SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE MATTING SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. THE MATTING SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.



STONE STABILIZATION TABLE
 NOT TO SCALE

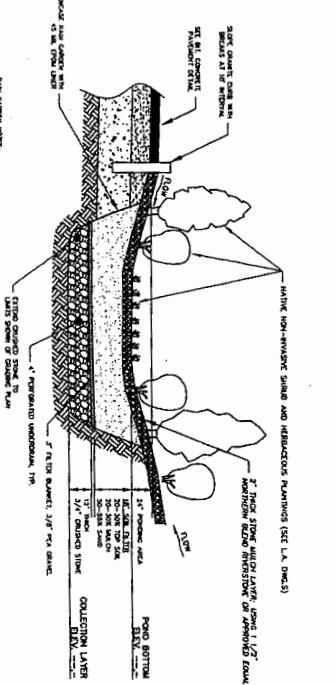
1. STONE STABILIZATION TABLE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. THE TABLE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE TABLE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE TABLE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. THE TABLE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.



RAIN GARDEN DETAIL
 NOT TO SCALE

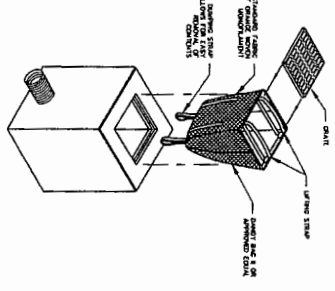
1. RAIN GARDEN SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. THE GARDEN SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE GARDEN SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE GARDEN SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. THE GARDEN SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.



STORM DRAIN INLET PROTECTION
 NOT TO SCALE

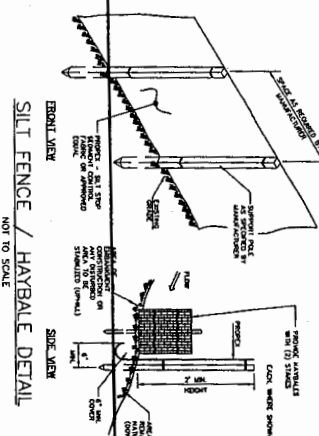
1. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. THE PROTECTION SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE PROTECTION SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE PROTECTION SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. THE PROTECTION SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.



SILT FENCE / HAYBALE DETAIL
 NOT TO SCALE

1. SILT FENCE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (SEE I.L.A. DWG. 00-C-126 PERMIT)

2. THE FENCE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

3. THE FENCE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

4. THE FENCE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

5. THE FENCE SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE AND SHALL BE PLACED OVER THE EXISTING SURFACE.

CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
 PEIRCE ISLAND WWTF UPGRADE

DETAILS VII

PERMITTING

AECOM

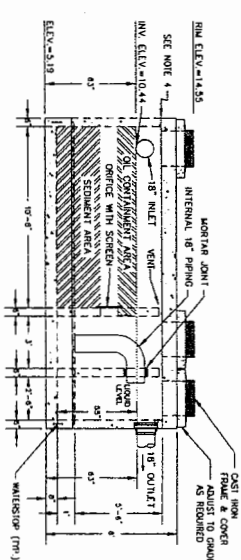
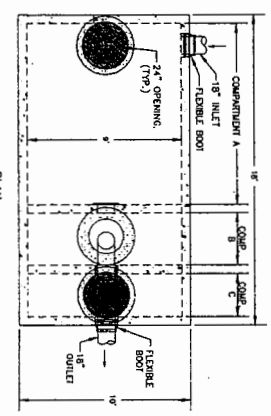
ALTUS

NORMANDEAU

PERMIT APPLICATION DRAWING
 NOT FOR CONSTRUCTION

MARK	DATE	MADE BY	CHECKED	DESCRIPTION

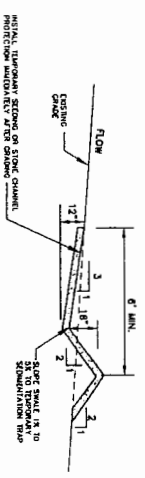
PROJECT NO. 00-C-126 PERMIT
 DATE FOR I.L.A. DWG. 00-C-126 PERMIT
 SCALE: AS SHOWN
 DATE: 08/14/15



5,000 GALLON WATER QUALITY INLET (WQI) STRUCTURE
NOT TO SCALE

GENERAL NOTES

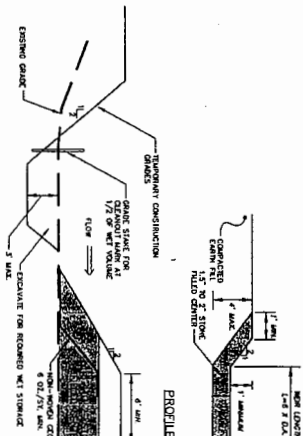
- WQI SHALL BE PROVIDED BY PRECAST PRODUCTS, CONCORD, NH, A 5,000 GALLON WQI MODEL # 203 GWS/V
- CONCRETE SHALL BE 25' X 8'00\"/>



TEMPORARY DIVERSION SWALE
NOT TO SCALE

MAINTENANCE

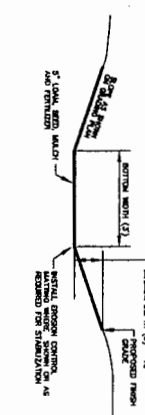
- CONSTRUCTION SHALL BE COMPLETED WITHIN THE PERIOD OF 90 DAYS FROM THE DATE OF PERMIT ISSUANCE.
- CONSTRUCTION SHALL BE COMPLETED WITHIN THE PERIOD OF 90 DAYS FROM THE DATE OF PERMIT ISSUANCE.
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TEMPORARY SEDIMENT TRAP (TST) OUTLET
NOT TO SCALE

MAINTENANCE

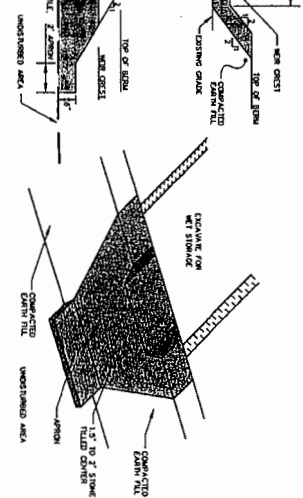
- SEDIMENT TRAP SHALL BE PROVIDED AND THE TRAP SHALL BE RETURNED TO ITS ORIGINAL CAPACITY WITHIN 90 DAYS FROM THE DATE OF PERMIT ISSUANCE.
- CONSTRUCTION SHALL BE COMPLETED WITHIN THE PERIOD OF 90 DAYS FROM THE DATE OF PERMIT ISSUANCE.
- CONSTRUCTION SHALL BE COMPLETED WITHIN THE PERIOD OF 90 DAYS FROM THE DATE OF PERMIT ISSUANCE.
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GRASED SWALE
NOT TO SCALE

MAINTENANCE

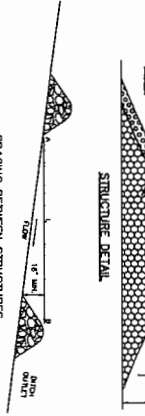
- CONSTRUCTION SHALL BE COMPLETED WITHIN THE PERIOD OF 90 DAYS FROM THE DATE OF PERMIT ISSUANCE.
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STONE CHECK DAM DETAIL
NOT TO SCALE

MAINTENANCE

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STONE CHECK DAM DETAIL
NOT TO SCALE

MAINTENANCE

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CITY OF PORTSMOUTH, NH - DEPARTMENT OF PUBLIC WORKS
PEIRCE ISLAND WWTF UPGRADE

DETAILS VIII

PERMITTING

AECOM

ALTUS

NORMANDEAU

PERMIT APPLICATION DRAWING
NOT FOR CONSTRUCTION

MARK	DATE	MADE BY	CHECKED	REVISION	DESCRIPTION

00-C-171 PERMIT



**US Army Corps
of Engineers®**
New England District

(Minimum Notice: Permittee must sign and return notification
within one month of the completion of work.)

COMPLIANCE CERTIFICATION FORM

Permit Number: NAE-2015-01928

Project Manager Richard Kristoff

Name of Permittee: Portsmouth

Permit Issuance Date: November 23, 2015

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

 * MAIL TO: U.S. Army Corps of Engineers, New England District *
 * Permits and Enforcement Branch C *
 * Regulatory Division *
 * 696 Virginia Road *
 * Concord, Massachusetts 01742-2751 *

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

Printed Name

Date of Work Completion

() _____
Telephone Number

() _____
Telephone Number