

# WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT PROJECT

BURMA ROAD  
PORTSMOUTH, RHODE ISLAND

**PERMIT SET**  
**SEPTEMBER 7, 2022**

**PREPARED FOR:**

**TOWN OF PORTSMOUTH**  
**2200 EAST MAIN ROAD**  
**PORTSMOUTH, RHODE ISLAND**

**DESIGNED BY:**



GZA GEOENVIRONMENTAL, INC.  
188 VALLEY ST. SUITE 300  
PROVIDENCE RHODE ISLAND, 02909



**PROJECT LOCUS MAP**

0 1000' 2000' 4000' 8000'  
SCALE IN FEET 1" = 2000'

SOURCE:  
BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAP:  
GEORGEVILLE, RI (2018), BLACKSTONE, MA (2018)

DIGITAL TOPOGRAPHIC MAPS PROVIDED BY USGS/DRE.DOV.  
CONTOUR ELEVATIONS REFERENCE NAVD 83.  
CONTOURS ARE SHOWN IN FEET AT 10 FOOT INTERVALS



QUADRANGLE LOCATION



**PROJECT VICINITY MAP**

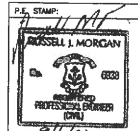
0 1000' 2000' 4000' 8000'  
SCALE IN FEET 1" = 2000'

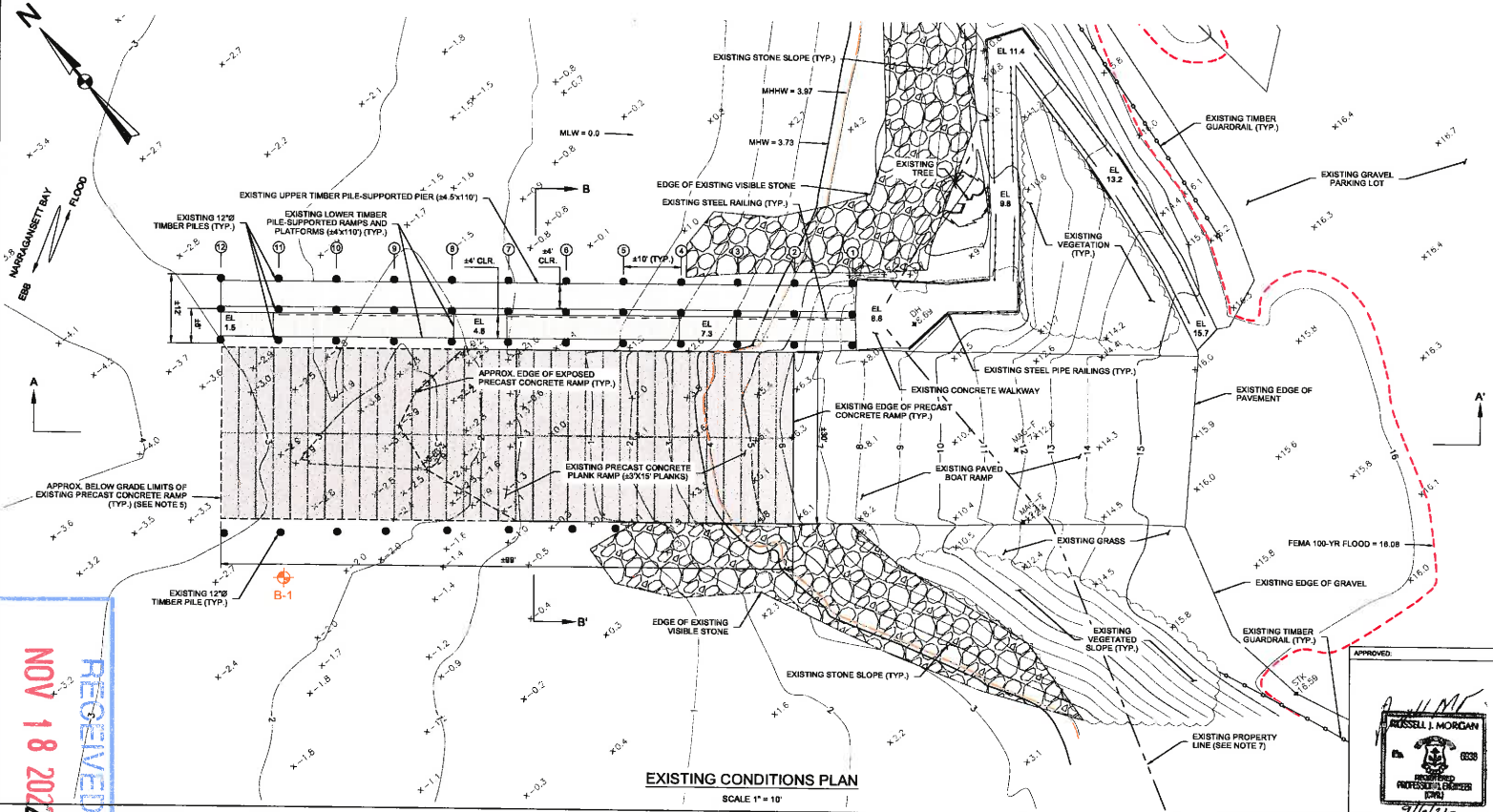
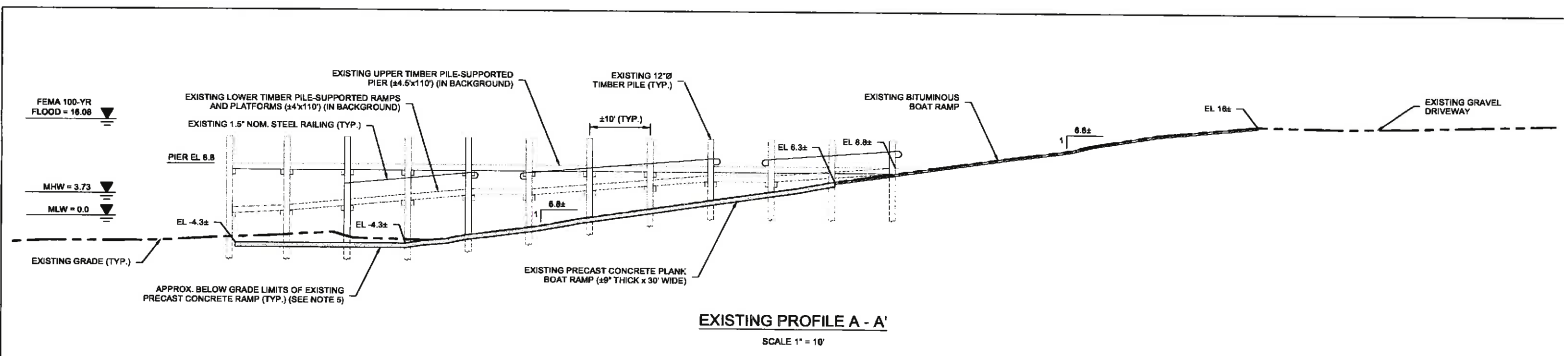
SOURCE: AERIAL MAP DEVELOPED FROM BING AERIAL IMAGERY  
ACCESSED ON JUNE 11, 2021

| INDEX OF DRAWINGS |  |
|-------------------|--|
| SHEET NUMBER      | SHEET TITLE                                |
| 1                 | COVER SHEET AND INDEX OF DRAWINGS          |
| 2                 | EXISTING CONDITIONS PLAN AND PROFILE       |
| 3                 | EXISTING SECTION                           |
| 4                 | PROPOSED REMOVALS AND EROSION CONTROL PLAN |
| 5                 | PROPOSED CONDITIONS PLAN                   |
| 6                 | PROPOSED PROFILES                          |
| 7                 | PROPOSED SECTION AND DETAILS               |
| 8                 | MISCELLANEOUS DETAILS                      |

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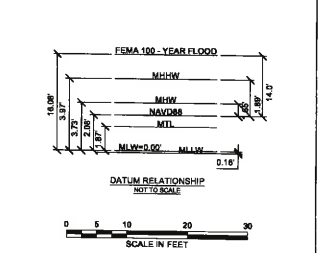
- GENERAL NOTES**
- ELEVATIONS ARE IN FEET AND REFERENCE MEAN LOW WATER (MLW) DATUM: MLW@0.0', MLW@-0.15', NAVD8@2.00', MTL@1.37', MHHW@3.75', MHHW@3.97', FEMA 100-YEAR FLOOD ZONE VE@16.08'.
  - TIDAL DATUM REFERENCED TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) STATION ID 462555, NAVY PIER, PRUDENCE ISLAND, RHODE ISLAND.
  - VERTICAL DATUM CONVERSION TAKEN FROM NOAA'S VERTICAL DATUM CONVERSION WEBSITE ACCESSED ON AUGUST 9, 2021.
  - LIMITED TOPOGRAPHIC AND BATHYMETRIC SURVEY PERFORMED BY GZA GEORENTOURAL, INC. ON AUGUST 4, 2021 AND REPRESENTS CONDITIONS AT THE TIME OF THE SURVEY.
  - APPROXIMATE BELOW GRADE LIMITS OF THE EXISTING PRECAST CONCRETE BOAT RAMP BASED ON PLAN TITLED 'AS-BUILT SITE PLAN - BOAT RAMP AREA HEAVY COVER', PREPARED BY JOHN P. CAITO CORPORATION, DATED DECEMBER 12, 1999.
  - BORING LOCATION DETERMINED IN THE FIELD BY GZA GEORENTOURAL, INC. BASED ON TAPE MEASUREMENTS FROM EXISTING SITE FEATURES.
  - PARCEL DATA WAS OBTAINED FROM THE TOWN OF PORTSMOUTH, RI WEBGIS MAPPING SERVICE AND SHOULD BE CONSIDERED ACCURATE TO THE METHOD USED TO DEVELOP BY THE SOURCE.

**LEGEND**

|  |   |
|--|---|
|  | EXISTING CONTOUR MAJOR  |
|  | EXISTING CONTOUR MINOR  |
|  | MEAN LOW WATER [ MLW ]  |
|  | MEAN HIGH WATER [ MHW ]   |
|  | MEAN HIGHER HIGH WATER [ MHHW ]   |
|  | FEMA 100-YR FLOOD ELEVATION   |
|  | APPROXIMATE PROPERTY LINE   |
|  | EXISTING TIMBER GUARDRAIL   |
|  | EXISTING STEEL RAILINGS   |
|  | APPROXIMATE EXISTING VEGETATION   |
|  | EXISTING EXPOSED STONE  |
|  | EXISTING PRECAST CONCRETE RAMP  |
|  | APPROXIMATE BELOW GRADE LIMITS OF EXISTING PRECAST CONCRETE RAMP (SEE NOTE 5) |

B-1 INDICATES BORINGS PERFORMED BY NEW ENGLAND BORING CONTRACTORS OF DERRY, NEW HAMPSHIRE ON AUGUST 10, 2021, OBSERVED AND LOGGED BY GZA PERSONNEL.

BENT ROW DESIGNATION NUMBER



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APPROVED:

**RUSSELL J. MORGAN**  
REGISTERED PROFESSIONAL ENGINEER  
0006

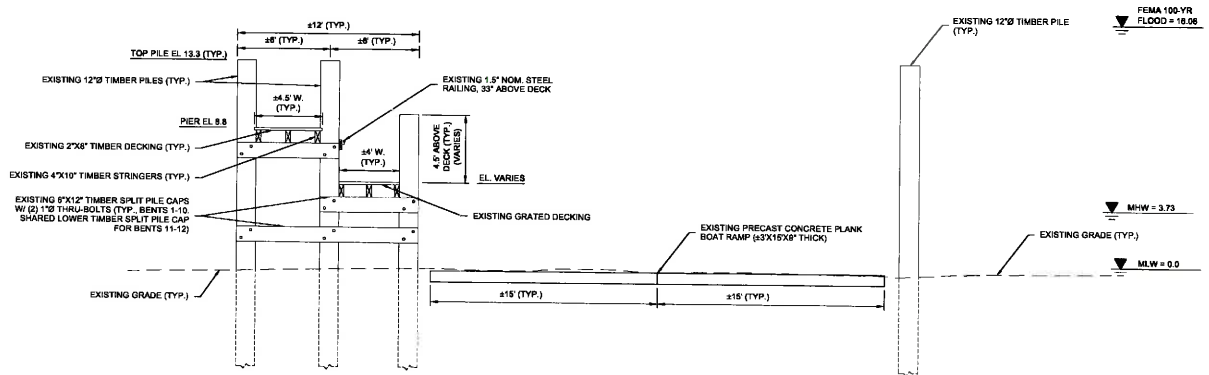
**TOWN OF PORTSMOUTH**  
2200 EAST MAIN ROAD  
PORTSMOUTH, RHODE ISLAND

PREPARED BY: **GZA GeoEnvironmental, Inc.**  
Engineers and Scientists  
www.gza.com

PREPARED FOR: **TOWN OF PORTSMOUTH**  
2200 EAST MAIN ROAD  
PORTSMOUTH, RHODE ISLAND

|                  |                           |                      |                  |                |                           |
|------------------|---------------------------|----------------------|------------------|----------------|---------------------------|
| PROJ MGR: RJK    | DESIGNED BY: RJK          | DATE: SEPTEMBER 2022 | CHECKED BY: ALM  | SCALE AS SHOWN | DRAWING NO. 03.0034944.00 |
| REVIEWED BY: ALM | PROJECT NO. 03.0034944.00 | REVISION NO. 2       | SHEET NO. 2 OF 8 |                |                           |

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EXISTING SECTION B - B'  
SCALE 1" = 4'



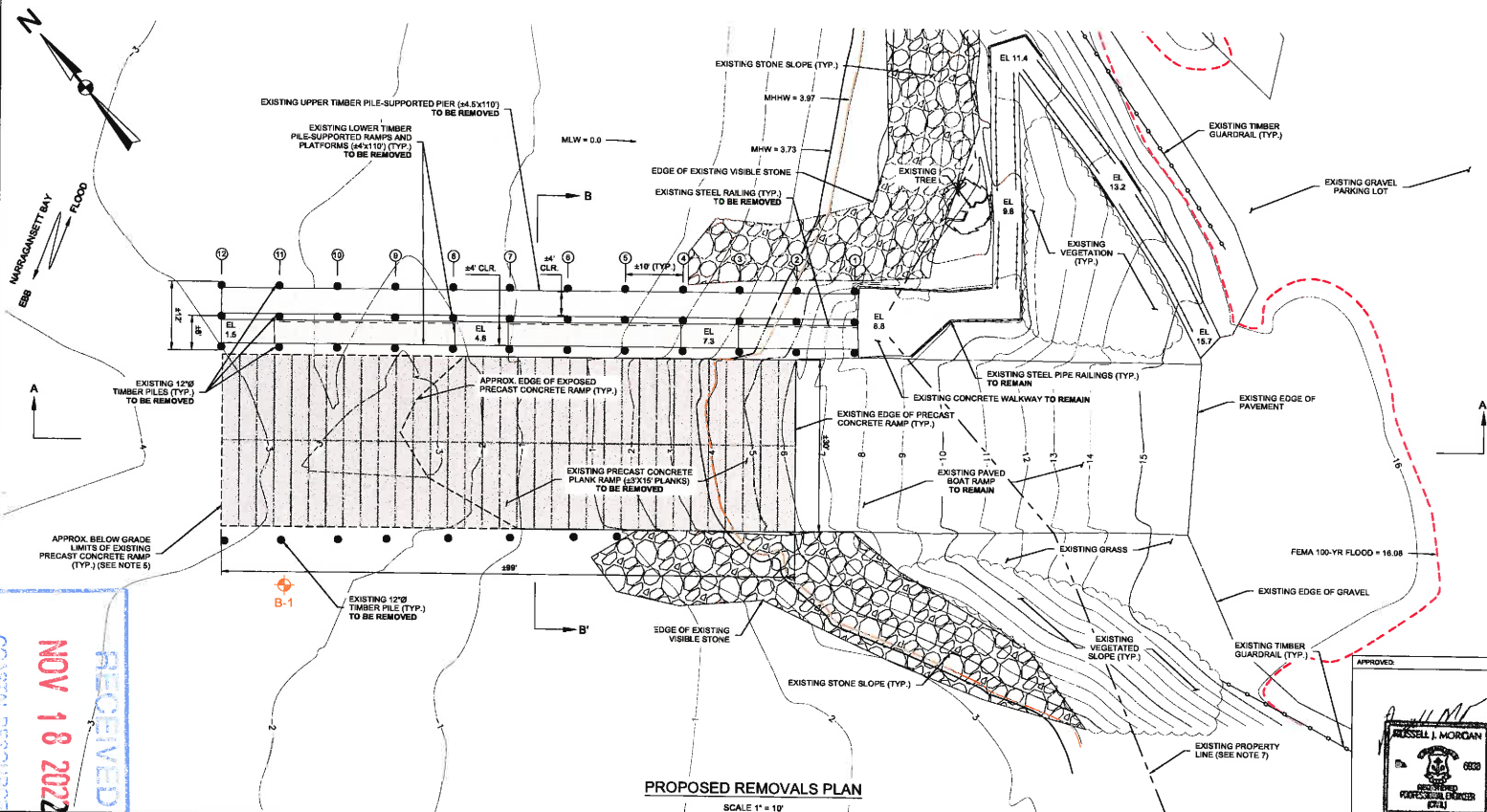
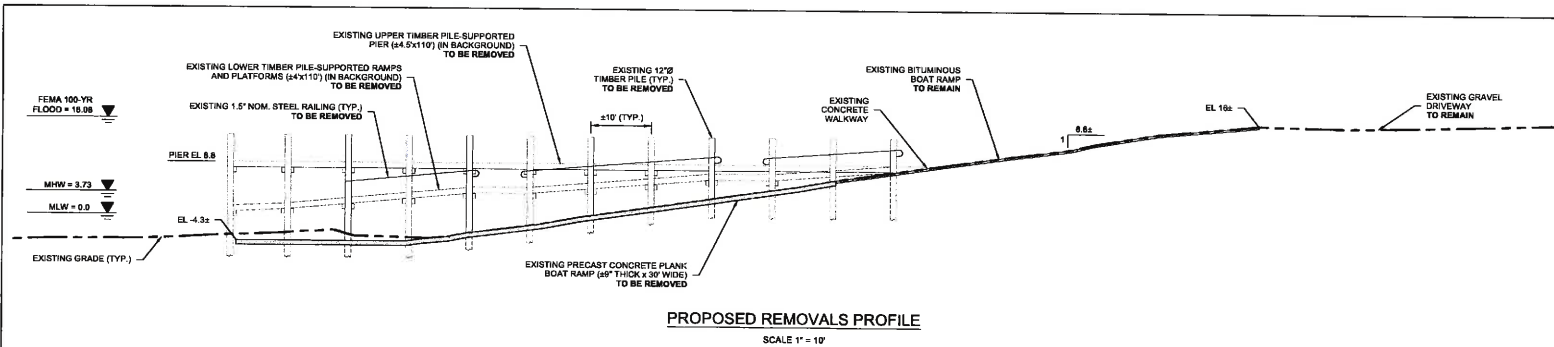
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APPROVED  
*[Signature]*  
RUSSELL J. MORGAN  
REGISTERED PROFESSIONAL ENGINEER  
0201  
9/16/22

|  |  |                 |                  |
|--|--|-----------------|------------------|
| WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT<br>PORTSMOUTH, RHODE ISLAND               |  |                 |                  |
| EXISTING SECTION   |  |                 |                  |
| PREPARED BY:<br>OZA GeoEnvironmental, Inc.<br>Engineers and Surveyors<br>www.oza.com | PREPARED FOR:<br>TOWN OF PORTSMOUTH<br>2200 EAST MAIN ROAD<br>PORTSMOUTH, RHODE ISLAND |                 |                  |
| PROJECT NO.: RKT   | DESIGNED BY: RKT   | CHECKED BY: MJP | DRAWING NO.: 3   |
| DATE: SEPTEMBER 2022   | PROJECT NO.: 03.003-4944.00  | REVISION NO.:   | SHEET NO. 3 of 8 |

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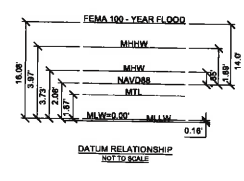
- GENERAL NOTES**
- ELEVATIONS ARE IN FEET AND REFERENCE MEAN LOW WATER (MLW) DATUM. MLW=0.0, MHHW=3.97, MHW=3.73, FEMA 100-YR FLOOD ZONE VE=16.08'
  - TIDAL DATUM REFERENCED TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) STATION ID 842655, NAVY PIER, PRUDENCE ISLAND, RHODE ISLAND.
  - VERTICAL DATUM CONVERSION TAKEN FROM NOAA'S VERTICAL DATUM CONVERSION WEBSITE ACCESSED ON AUGUST 9, 2021.
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  - BORING LOCATION DETERMINED IN THE FIELD BY GZA GEOENVIRONMENTAL, INC. BASED ON TAPE MEASUREMENTS FROM EXISTING SITE FEATURES.
  - PARCEL DATA WAS OBTAINED FROM THE TOWN OF PORTSMOUTH, RI WEBSITE MAPPING SERVICE AND SHOULD BE CONSIDERED ACCURATE TO THE METHOD USED TO DEVELOP BY THE SOURCE.

- LEGEND**
- EXISTING CONTOUR MAJOR
  - EXISTING CONTOUR MINOR
  - MEAN LOW WATER (MLW)
  - MEAN HIGH WATER (MHW)
  - MEAN HIGHER HIGH WATER (MHHW)
  - FEMA 100-YR FLOOD ELEVATION
  - APPROXIMATE PROPERTY LINE
  - EXISTING TIMBER GUARDRAIL
  - EXISTING STEEL RAILINGS
  - APPROXIMATE EXISTING VEGETATION
  - EXISTING EXPOSED STONE
  - EXISTING PRECAST CONCRETE RAMP
  - APPROXIMATE PERIMETER OF TURBIDITY CURTAIN
  - APPROXIMATE BELOW GRADE LIMITS OF EXISTING PRECAST CONCRETE RAMP (SEE NOTE 5)

INDICATES BORINGS PERFORMED BY NEW ENGLAND BORING CONTRACTORS OF DERRY, NEW HAMPSHIRE ON AUGUST 10, 2021 OBSERVED AND LOGGED BY GZA PERSONNEL

B-1

1



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APPROVED: [Signature]

**WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT PORTSMOUTH, RHODE ISLAND**

**PROPOSED REMOVALS AND EROSION AND SEDIMENTATION CONTROL PLAN**

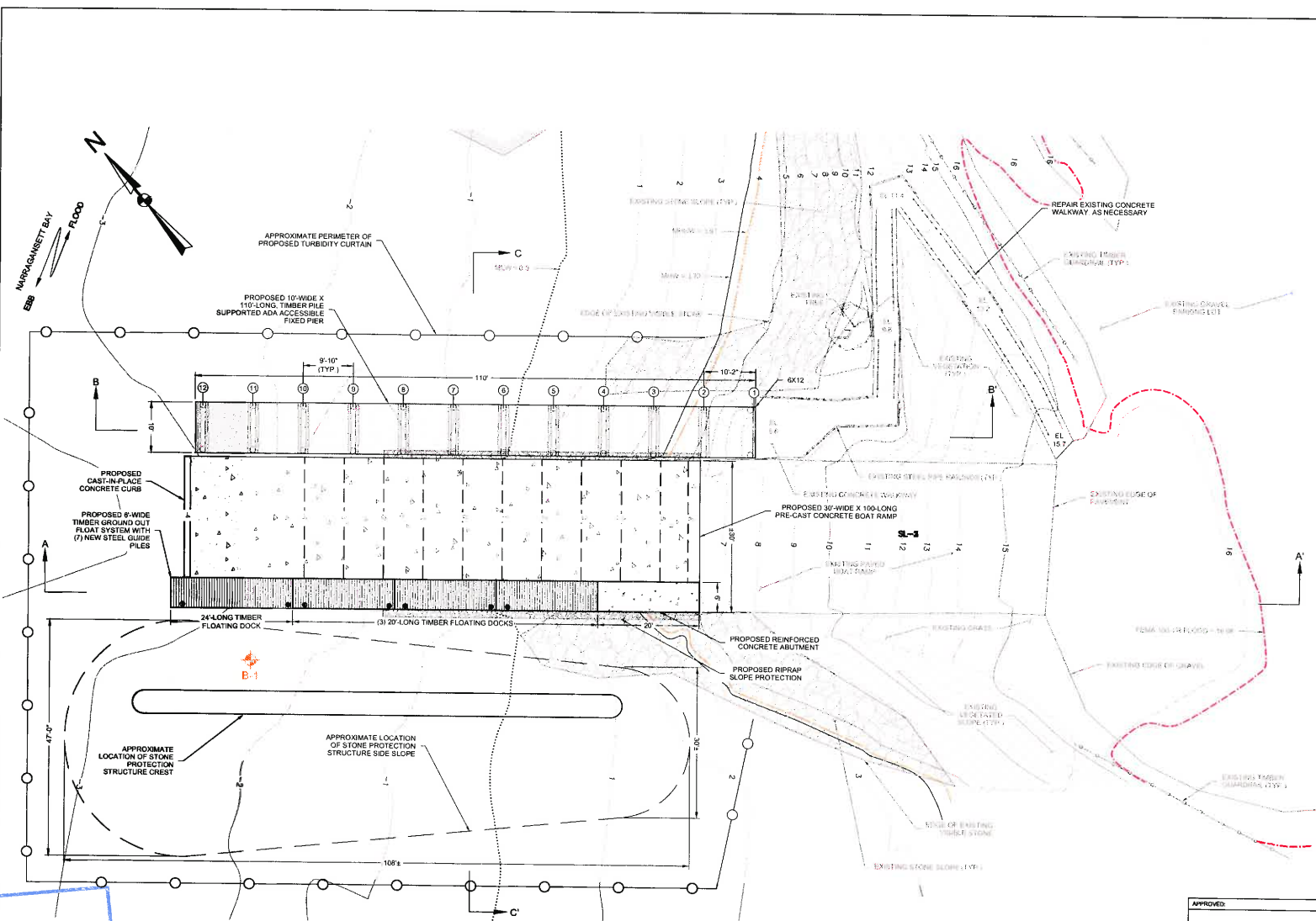
PREPARED BY: **GZA GeoEnvironmental, Inc.**  
Engineers and Scientists  
www.gza.com

PREPARED FOR: **TOWN OF PORTSMOUTH**  
2200 EAST MAIN ROAD  
PORTSMOUTH, RHODE ISLAND

|              |               |               |                |
|--------------|---------------|---------------|----------------|
| PROJECT NO.: | 03.0034944.00 | DATE:         | SEPTEMBER 2022 |
| DESIGNED BY: | RKT           | DRAWN BY:     | ADD            |
| REVIEWED BY: | RJM           | CHECKED BY:   | MJP            |
| SCALE:       | AS SHOWN      | REVISION NO.: | 4              |

PROJECT NO. 4 OF 4

NOV 18 2022  
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CITY OF PORTSMOUTH



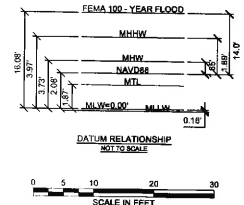
**PROPOSED CONDITIONS PLAN**  
SCALE 1" = 10'

- GENERAL NOTES**
- ELEVATIONS ARE IN FEET AND REFERENCE MEAN LOW WATER (MLW) DATUM. MLW=0.07, MHW=2.15, NAVD8=2.07, MTL=1.87, MHH=3.73, MHHW=3.97, FEMA 100-YEAR FLOOD ZONE VE=18.08'
  - TIDAL DATUM REFERENCED TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) STATION ID 8452655, NAVY PIER, PRUDENCE ISLAND, RHODE ISLAND.
  - VERTICAL DATUM CONVERSION TAKEN FROM NOAA'S VERTICAL DATUM CONVERSION WEBSITE ACCESSED ON AUGUST 8, 2021.
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  - MEAN HIGH WATER (MHW)
  - MEAN HIGHER HIGH WATER (MHHW)
  - FEMA 100-YR FLOOD ELEVATION
  - APPROXIMATE PROPERTY LINE
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  - EXISTING EXPOSED STONE
  - EXISTING PRECAST CONCRETE RAMP
  - APPROXIMATE BELOW GRADE LIMITS OF EXISTING PRECAST CONCRETE RAMP (SEE NOTES)

INDICATES BORINGS PERFORMED BY NEW ENGLAND BORING CONTRACTORS OF DERRY, NEW HAMPSHIRE ON AUGUST 10, 2021. OBSERVED AND LOGGED BY GZA PERSONNEL.

BENT ROW DESIGNATION NUMBER

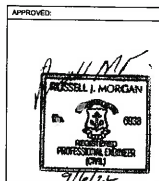


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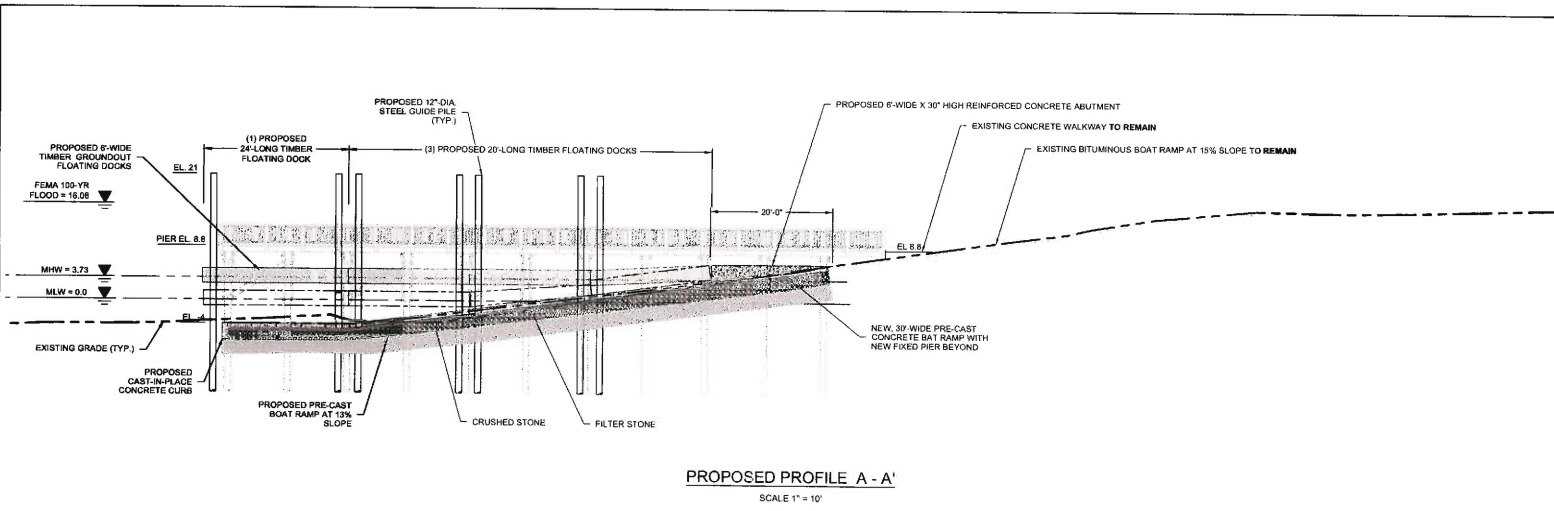
WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT  
PORTSMOUTH, RHODE ISLAND

**PROPOSED CONDITIONS PLAN**

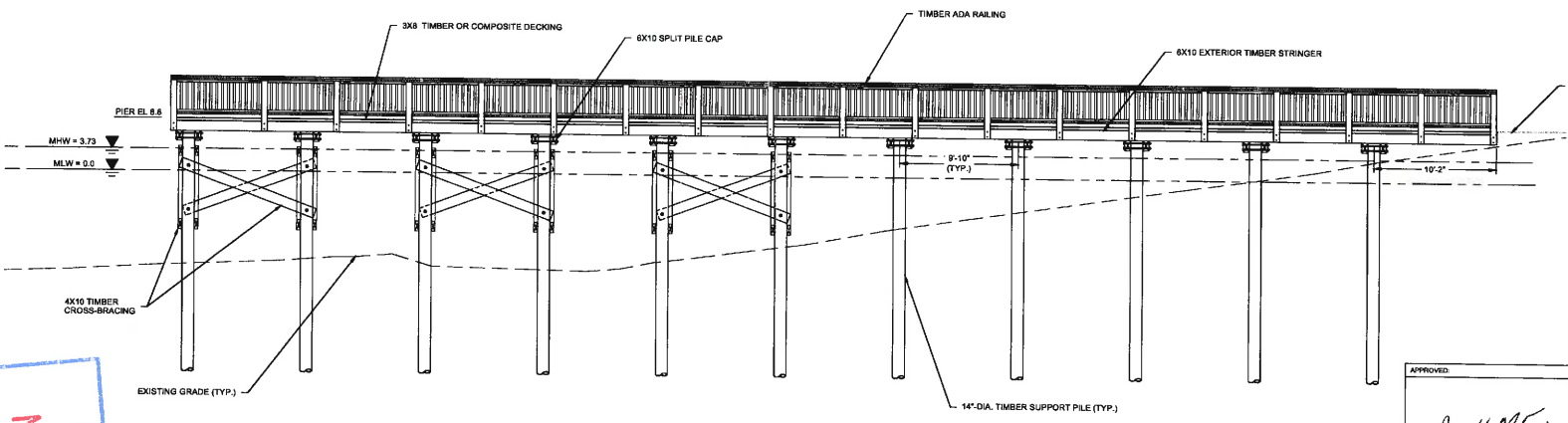
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|---|--|
| PREPARED BY:<br>GZA GeoEnvironmental, Inc.<br>Engineers and Scientists<br>www.gza.com | PREPARED FOR:<br>TOWN OF PORTSMOUTH<br>2200 EAST MAIN ROAD<br>PORTSMOUTH, RHODE ISLAND |
| PROJ. NO.: RRT  | DESIGNED BY: RMT   |
| DESIGNED BY: RMT  | PROJECT NO.: 03.0034944.00   |
| DATE: SEPTEMBER 2022  | REVISION NO.:  |
| CHECKED BY: RUM   | SCALE AS SHOWN   |
| CHECKED BY: MJP   | REVISION NO.:  |
| DRAWING   | SHEET NO. 5 OF 5   |



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PROPOSED PROFILE A - A'  
SCALE 1" = 10'



PROPOSED PROFILE B - B'  
SCALE 1" = 5'

- GENERAL NOTES**
- ELEVATIONS ARE IN FEET AND REFERENCE MEAN LOW WATER (MLW) DATUM: MLW=0.0; NAVD83 OF: MTL=+1.87; MHW=3.73; MHHW=3.87; FEMA 100-YEAR FLOOD ZONE VE=16.08'
  - TIDAL DATUM REFERENCED TO THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) STATION ID 8482665, NAVY PIER, PRUDENCE ISLAND, RHODE ISLAND.
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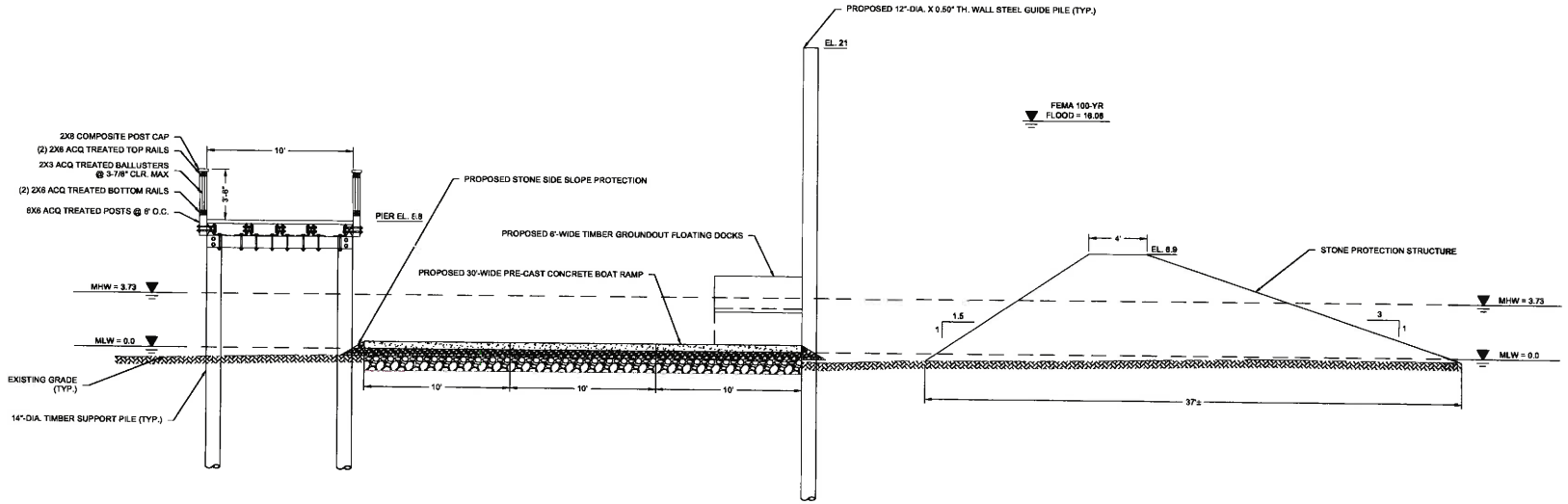
APPROVED:  
*RUSSELL J. MORGAN*  
RUSSELL J. MORGAN  
PROFESSIONAL ENGINEER  
03/16/22

WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT  
PORTSMOUTH, RHODE ISLAND

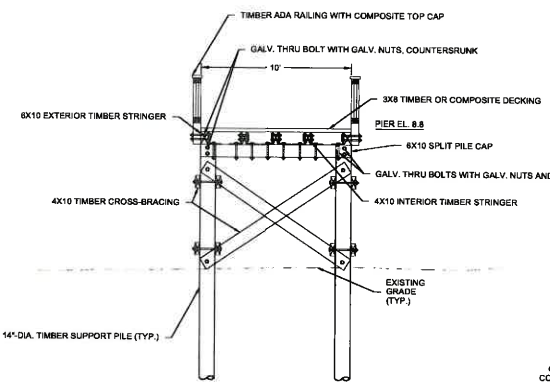
PROPOSED PROFILES

|   |  |
|---|--|
| PREPARED BY:<br>GZA GeoEnvironmental, Inc.<br>Engineers and Scientists<br>www.gza.com | PREPARED FOR:<br>TOWN OF PORTSMOUTH<br>2200 EAST MAIN ROAD<br>PORTSMOUTH, RHODE ISLAND |
| PROJ. MGR.: RMT   | DESIGNED BY: RMT   |
| REVIEWED BY: RLM  | DRAWING:   |
| CHECKED BY: MJP   | SCALE: AS SHOWN  |
| DATE: SEPTEMBER 2022  | PROJECT NO.: 03.003494.00  |
|   | REVISION NO.:  |
|   | SHEET NO. 6 OF 6   |

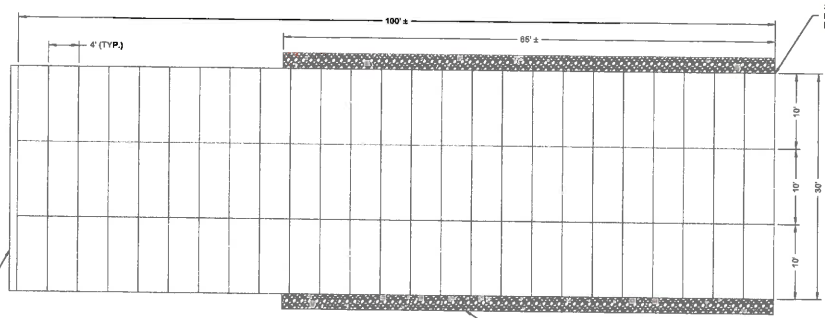
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PROPOSED SECTION C-C'  
SCALE 1" = 4'



PROPOSED PIER SECTION  
SCALE 1" = 4'

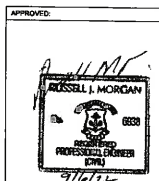


PROPOSED RAMP DETAIL  
SCALE 1" = 4'



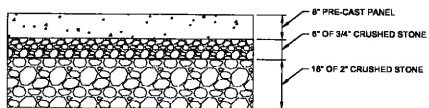
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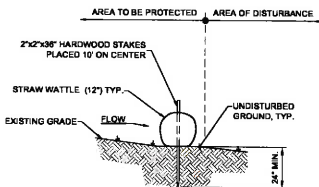


|  |                             |   |                          |
|--|-----------------------------|---|--------------------------|
| <b>WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT PORTSMOUTH, RHODE ISLAND</b>                   |                             |   |                          |
| <b>PROPOSED SECTION AND DETAILS</b>  |                             |   |                          |
| PREPARED BY:<br><b>GZA</b> GeoEnvironmental, Inc.<br>Engineers and Scientists<br>www.gza.com | PROJECT NO:<br>03.003494.00 | TOWN OF PORTSMOUTH<br>2200 EAST MAIN ROAD<br>PORTSMOUTH, RHODE ISLAND | DATE:<br>SEPTEMBER 2022  |
| DESIGNED BY: RMT   | DRAWN BY: ADD               | CHECKED BY: MJP   | REVISION NO:<br><b>7</b> |
| DATE:  | PROJECT NO:                 | SCALE AS SHOWN  | SHEET NO. 7 OF 8         |

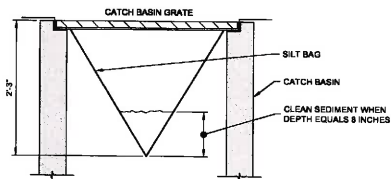
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 PORTSMOUTH ENGINEERING



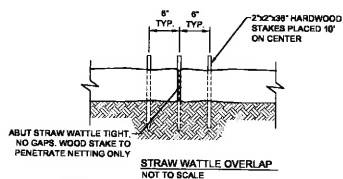
**PRE-CAST RAMP SECTION**  
NOT TO SCALE



**FILTRIXX SOXX DETAIL**  
NOT TO SCALE



**SILT SACK DETAIL**  
NOT TO SCALE

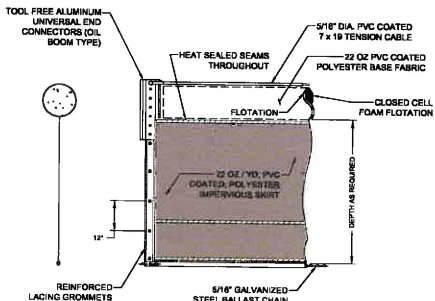


**STRAW WATTLE OVERLAP**  
NOT TO SCALE

**NOTES:**

- ALL MATERIAL TO MEET STRAW WATTLE SPECIFICATIONS
- FILTER MEDIA (FM) FILL TO MEET APPLICATION REQUIREMENTS.
- COMPOST MATERIAL TO BE DISPERSED ON SITE AS APPROVED BY ENGINEER.

**STRAW WATTLE SEDIMENT CONTROL DETAIL**  
NOT TO SCALE



**TURBIDITY CURTAIN**  
NOT TO SCALE

**NOTE:**

- ANCHOR CURTAIN 300# AT DAM FACE.
- ANCHOR CURTAIN AT INTERMEDIATE POINTS WITH CONCRETE ANCHOR BLOCKS.

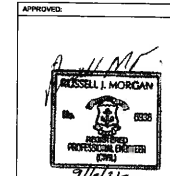
**NOTES:**

- SEDIMENT BAG INLET PROTECTION TO BE SILT SACK MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS INC. RICHMOND, VA OR APPROVED EQUAL.
- STORMWATER CATCH BASINS OR DRAINS SHALL BE PROTECTED FROM MATERIALS RUN-OFF. CONTRACTOR SHALL INSTALL SILT SACKS WITHIN EACH CATCH BASIN IN THE VICINITY OF ANY WORK AREAS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL USE ALL BMP'S NECESSARY TO PROTECT THESE INLETS FROM SEDIMENT AND DEBRIS.



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| <b>WEAVER COVE BOAT RAMP AND PIER IMPROVEMENT PORTSMOUTH, RHODE ISLAND</b>   |  |  |   |
| <b>MISCELLANEOUS DETAILS</b>   |  |  |   |
| PREPARED BY:<br><b>GZA</b> GeoEnvironmental, Inc.<br>Engineers and Scientists<br>www.gza.com   | TOWN OF PORTSMOUTH<br>2200 EAST MAIN ROAD<br>PORTSMOUTH, RHODE ISLAND                                | PREPARED FOR:<br>TOWN OF PORTSMOUTH<br>2200 EAST MAIN ROAD<br>PORTSMOUTH, RHODE ISLAND |   |
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