

NOTES:

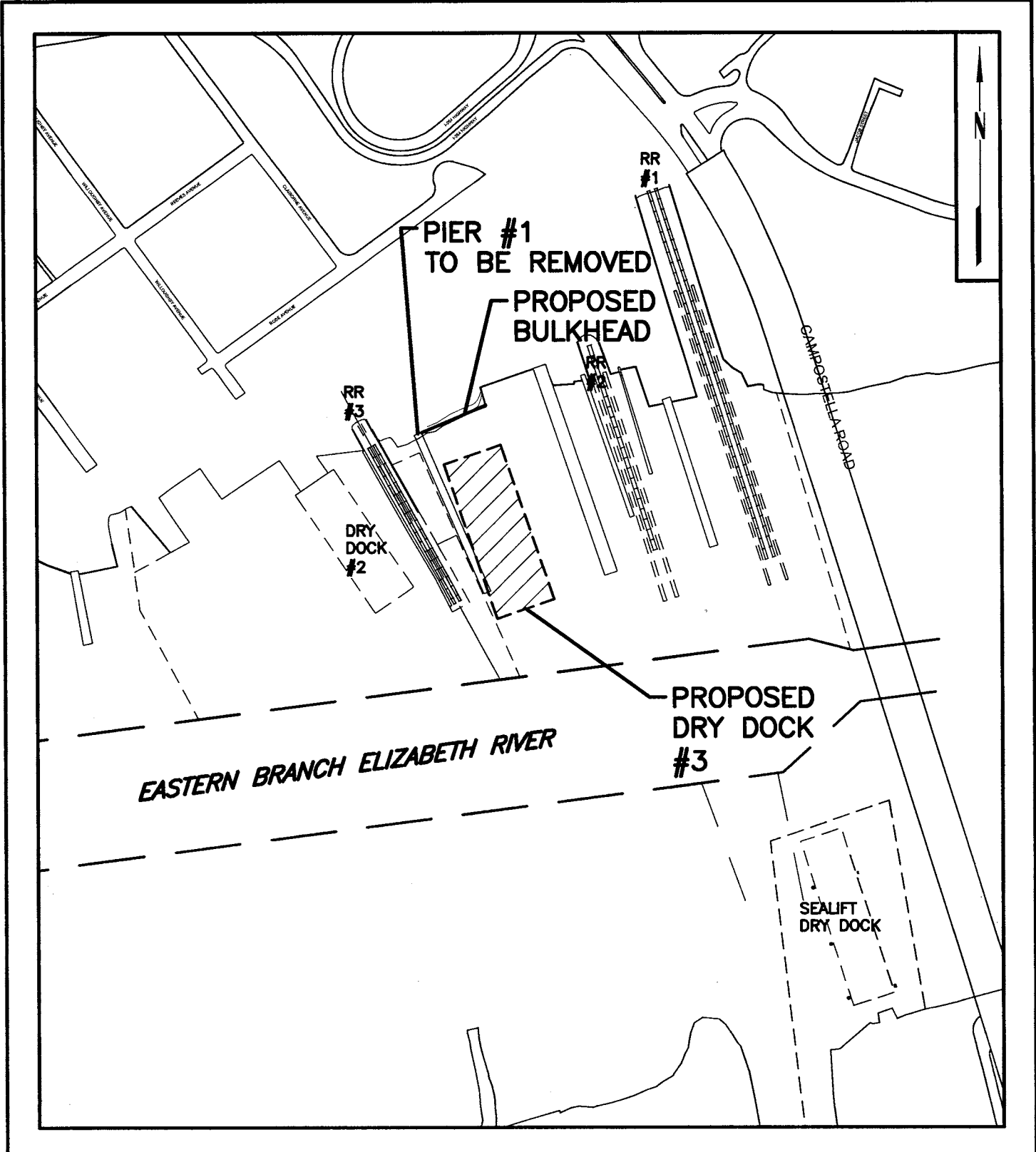
- 1. SOUNDINGS WERE TAKEN USING A RECORDING FATHOMETER OPERATION AT 208KHZ ON OCTOBER 2014.
- 2. SOUNDINGS ARE IN FEET REFERRED TO MEAN LOWER LOW WATER (MLLW).
- 3. COORDINATES ARE IN U.S. SURVEY FEET REFERRED TO THE VIRGINIA STATE GRID (SOUTH ZONE) BASED ON NAD83.

PURPOSE: PRIVATE
DATUM: N.O.S. MLLW=0.0'
ADJACENT PROPERTY OWNERS:
① MORAN TOWING
② CITY OF NORFOLK

LOCATION MAP
PREPARED BY:
Waterway
Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED DRY DOCK & DOLPHIN
IN: EASTERN BRANCH ELIZABETH RIVER
CITY: NORFOLK STATE: VIRGINIA
APPLICATION BY: LYON SHIPYARD
SCALE: 1"=2000' DATE: MARCH 8, 2016
SHEET 1 OF 7 REVISION: MAY 13, 2016

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MAY 23 2016
MARINE RESOURCES
COMMISSION



PURPOSE: PRIVATE
DATUM: N.O.S. MLLW=0.0'
ADJACENT PROPERTY OWNERS:
① MORAN TOWING
② CITY OF NORFOLK

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MAY 23 2016

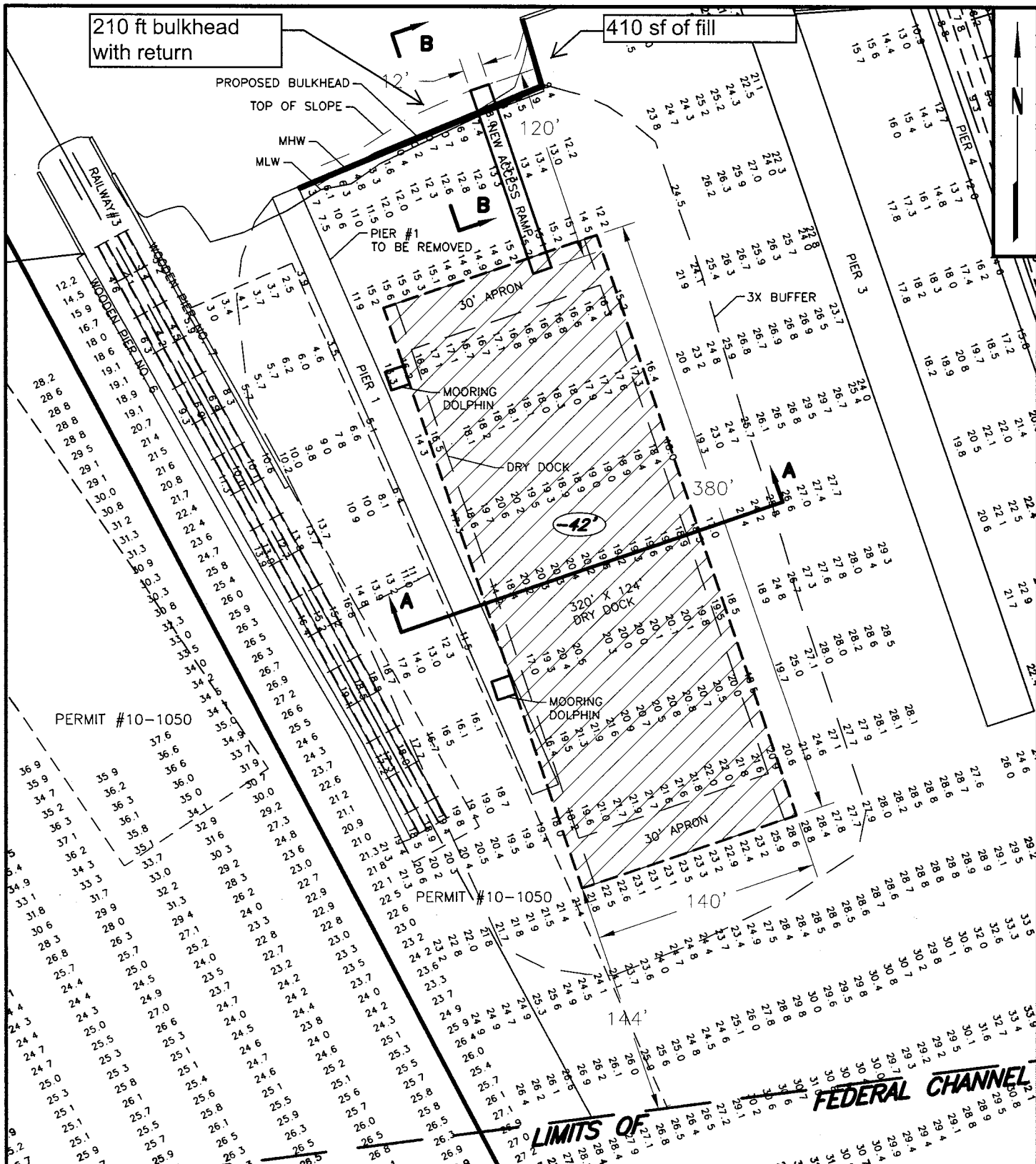
MARINE RESOURCES
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SITE LOCATION

PREPARED BY:
Waterway
Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED DRY DOCK & DOLPHIN
IN: EASTERN BRANCH ELIZABETH RIVER
CITY: NORFOLK STATE: VIRGINIA
APPLICATION BY: LYON SHIPYARD
SCALE: 1"=300' DATE: MARCH 8, 2016
SHEET 2 OF 7 REVISION: MAY 13, 2016

5160-00-22-02



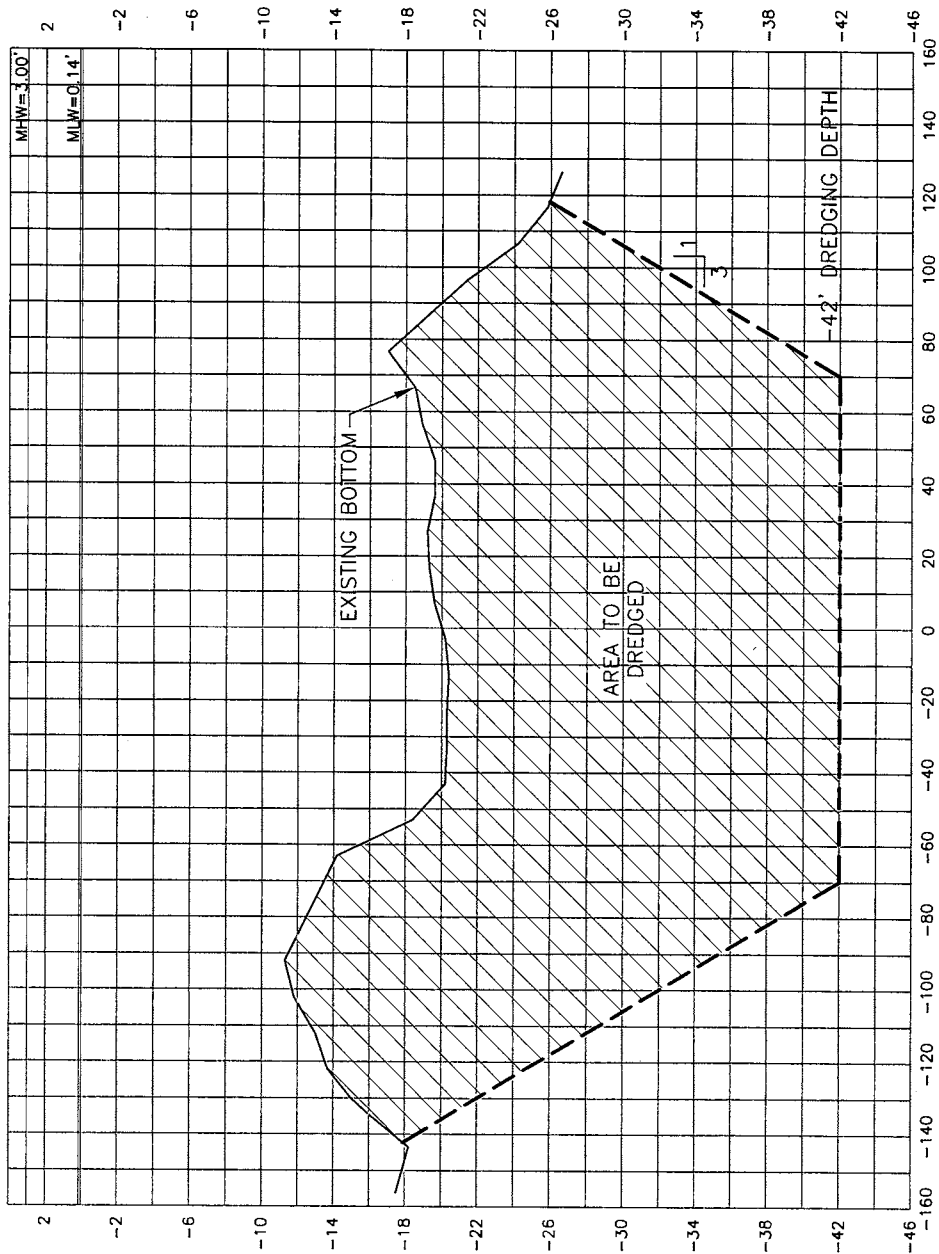
PURPOSE: PRIVATE
 DATUM: N.O.S. MLW=0.0'
 ADJACENT PROPERTY OWNERS:
 ① MORAN TOWING
 ② CITY OF NORFOLK

RECEIVED
 MAY 23 2016
 MARINE RESOURCES
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PLAN VIEW
 PREPARED BY:
 Waterway
 Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PROPOSED DRY DOCK & DOLPHIN
 IN: EASTERN BRANCH ELIZABETH RIVER
 CITY: NORFOLK STATE: VIRGINIA
 APPLICATION BY: LYON SHIPYARD
 SCALE: 1"=80' DATE: MARCH 8, 2016
 SHEET 3 OF 7 REVISION: MAY 13, 2016

SECTION A--A



PURPOSE: PRIVATE
DATUM: N.O.S. MLLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① MORAN TOWING
- ② CITY OF NORFOLK

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PLAN VIEW

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED DRY DOCK & DOLPHIN
IN: EASTERN BRANCH ELIZABETH RIVER

CITY: NORFOLK

STATE: VIRGINIA

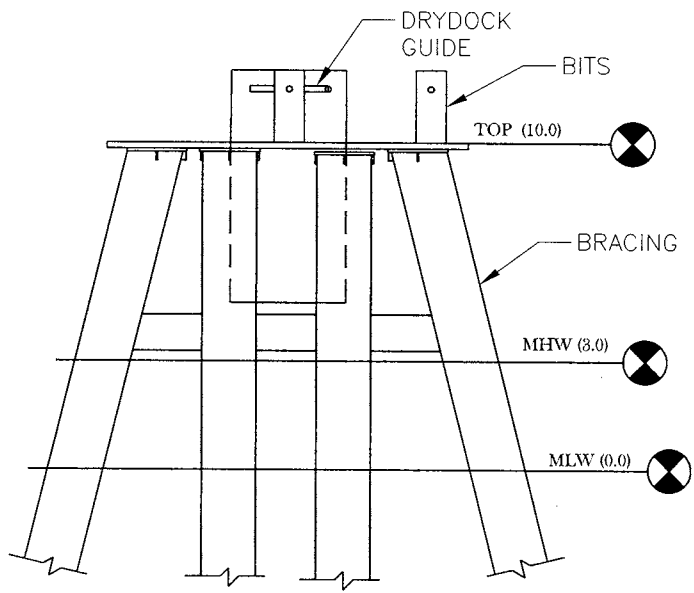
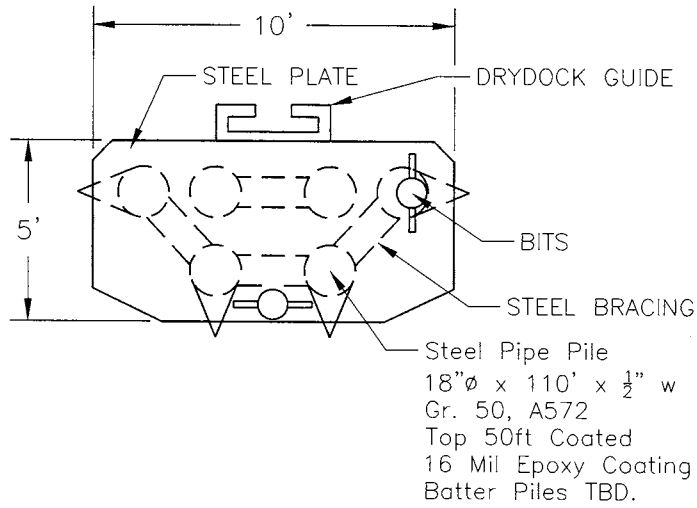
APPLICATION BY: LYON SHIPYARD

SCALE: 1"=50'

DATE: MARCH 8, 2016

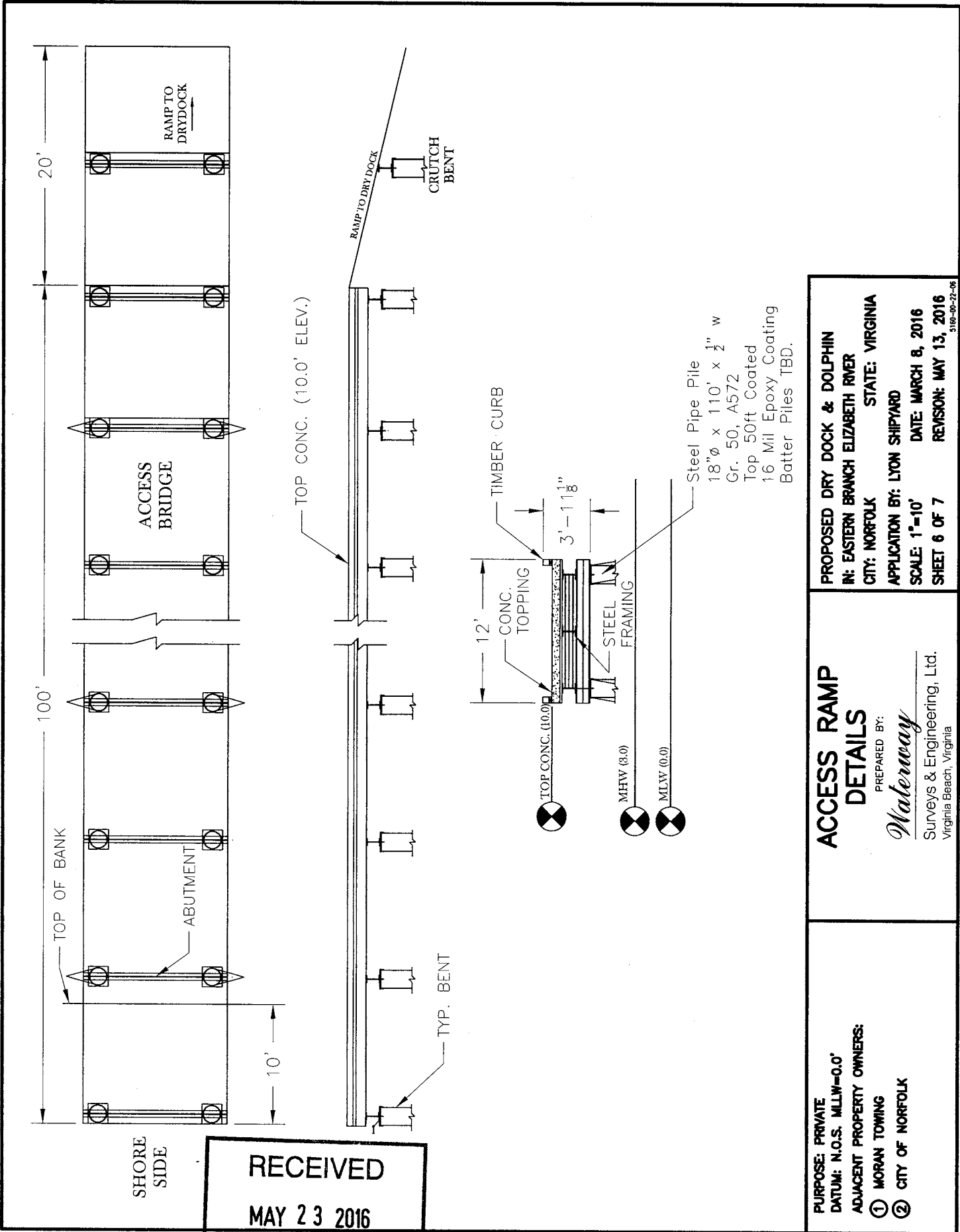
SHEET 4 OF 7

REVISION: MAY 13, 2016



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|--|---|--|
| <p>PURPOSE: PRIVATE DATUM: N.O.S. MLLW=0.0' ADJACENT PROPERTY OWNERS: ① MORAN TOWING ② CITY OF NORFOLK</p> | <p>MOORING DOLPHIN DETAILS PREPARED BY: <i>Waterway</i> Surveys & Engineering, Ltd. Virginia Beach, Virginia</p> | <p>PROPOSED DRY DOCK & DOLPHIN IN: EASTERN BRANCH ELIZABETH RIVER CITY: NORFOLK STATE: VIRGINIA APPLICATION BY: LYON SHIPYARD SCALE: 1"=5' DATE: MARCH 8, 2016 SHEET 5 OF 7 REVISION: MAY 13, 2016</p> |
|--|---|--|

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PROPOSED DRY DOCK & DOLPHIN
IN: EASTERN BRANCH ELIZABETH RIVER
CITY: NORFOLK **STATE: VIRGINIA**
APPLICATION BY: LYON SHIPYARD
SCALE: 1"=10' **DATE: MARCH 8, 2016**
SHEET 6 OF 7 **REVISION: MAY 13, 2016**

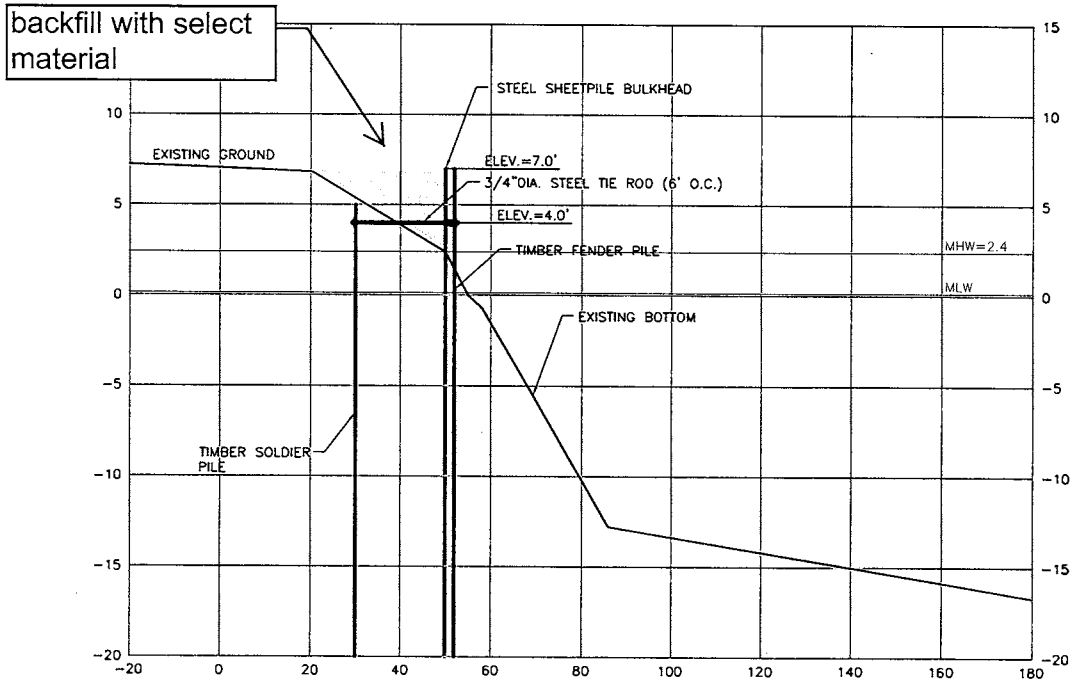
ACCESS RAMP
DETAILS
 PREPARED BY:
Waterway
 Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PURPOSE: PRIVATE
DATUM: N.O.S. MLLW=0.0'
ADJACENT PROPERTY OWNERS:
 ① MORAN TOWING
 ② CITY OF NORFOLK

Steel Pipe Pile
 18"Ø x 110' x 1/2" w
 Gr. 50, A572
 Top 50ft Coated
 16 Mil Epoxy Coating
 Batter Piles TBD.

5161-00-27-06

SECTION B-B



PURPOSE: PRIVATE
DATUM: N.O.S. MLLW=0.0'
ADJACENT PROPERTY OWNERS:
① MORAN TOWING
② CITY OF NORFOLK

BULKHEAD DETAIL

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED DRY DOCK & DOLPHIN
IN: EASTERN BRANCH ELIZABETH RIVER
CITY: NORFOLK STATE: VIRGINIA
APPLICATION BY: LYON SHIPYARD
SCALE: 1"=40' DATE: MAY 13, 2016
SHEET 7 OF 7

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MAY 23 2016

MARINE RESOURCES
COMMISSION

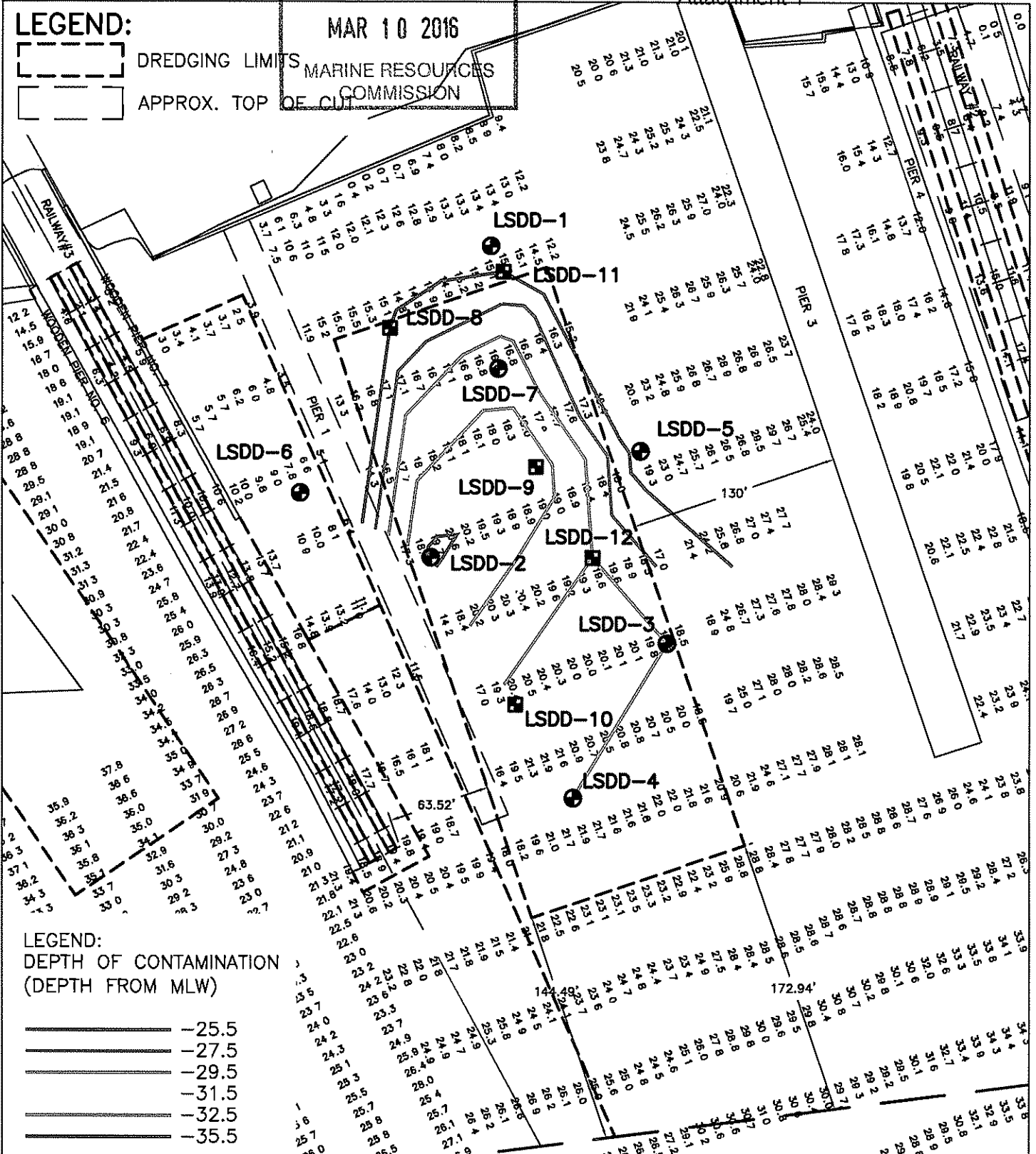
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MAR 10 2016

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LEGEND:

-  DREDGING LIMITS
-  APPROX. TOP OF CUT



LEGEND:

DEPTH OF CONTAMINATION
 (DEPTH FROM MLW)

-  -25.5
-  -27.5
-  -29.5
-  -31.5
-  -32.5
-  -35.5

PURPOSE: PRIVATE
 DATUM: N.O.S. MLLW=0.0'
 ADJACENT PROPERTY OWNERS:

- ① XXX
- ② XXX
- ③ XXX

DRY DOCK AT 60' OFF
 12' CONTOUR

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PROPOSED DRY DOCK
 IN: EASTERN BRANCH ELIZABETH RIVER
 CITY: NORFOLK STATE: VIRGINIA
 APPLICATION BY: LYON SHIPYARD
 SCALE: 1"=80' DATE: SEPTEMBER 22, 2015
 SHEET 1 OF 1