

LEGEND:

 MAINTENANCE DREDGING AREAS

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

LOCATION MAP

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

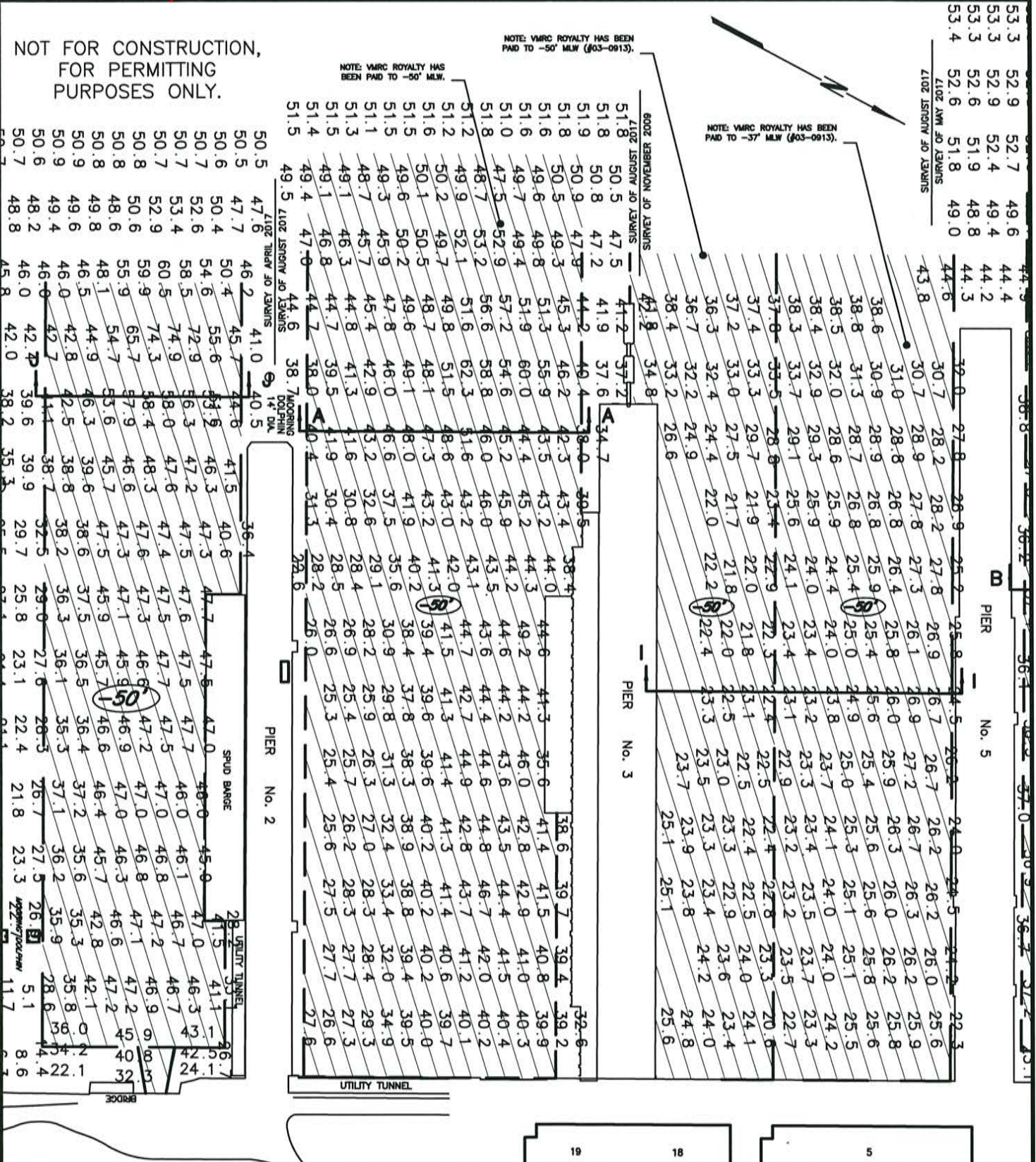
SCALE: 1"=1000' DATE: FEBRUARY 5, 2018
SHEET 1 OF 19 REVISION:

NOT FOR CONSTRUCTION,
FOR PERMITTING
PURPOSES ONLY.

NOTE: VMRC ROYALTY HAS BEEN
PAID TO -50' MLW (#03-0913).

NOTE: VMRC ROYALTY HAS
BEEN PAID TO -50' MLW.

NOTE: VMRC ROYALTY HAS BEEN
PAID TO -37' MLW (#03-0913).



PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

- ADJACENT PROPERTY OWNERS:
- ① SUNSET TERRACE CORPORATION
 - ② MICHAEL T. HOWARD

ADDITIONAL INFO
REVISION

PLAN VIEW SHEET 2

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

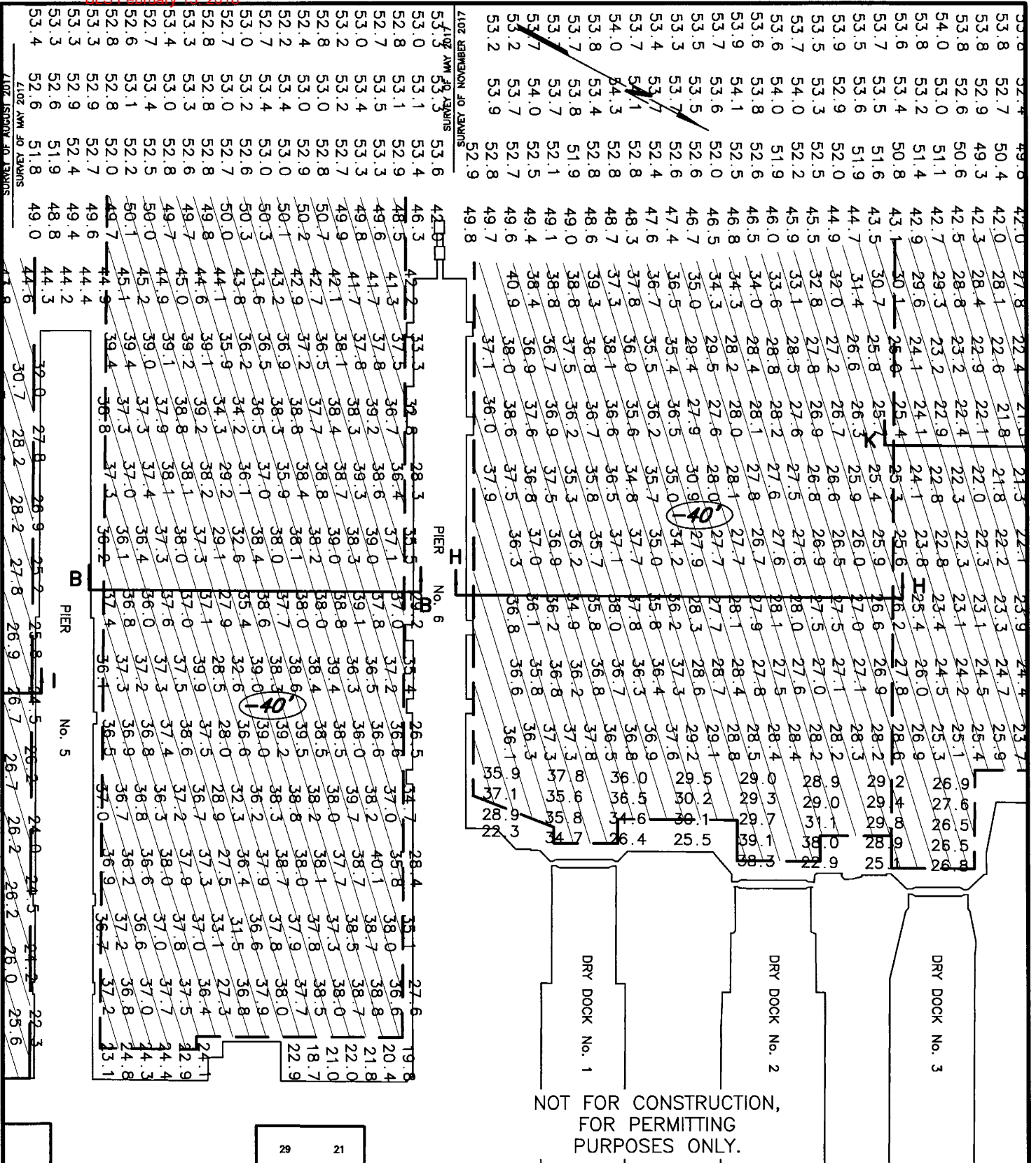
PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=200' DATE: FEBRUARY 5, 2018
SHEET 2 OF 19 REVISION:

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MARINE RESOURCES



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PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

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MARINE RESOURCES
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PLAN VIEW SHEET 3

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING

IN: JAMES RIVER

CITY: NEWPORT NEWS

STATE: VIRGINIA

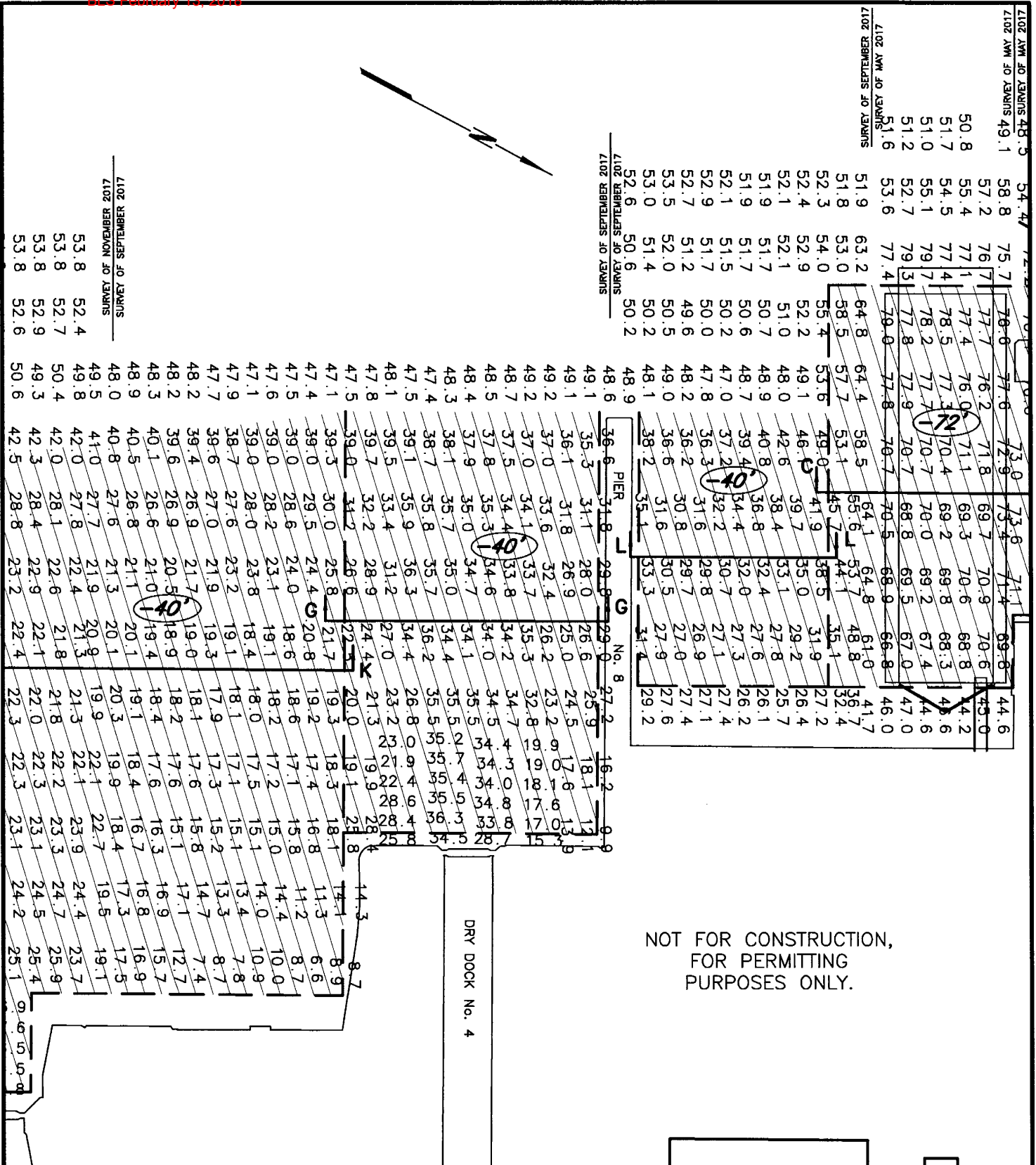
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=200'

DATE: FEBRUARY 5, 2018

SHEET 3 OF 19

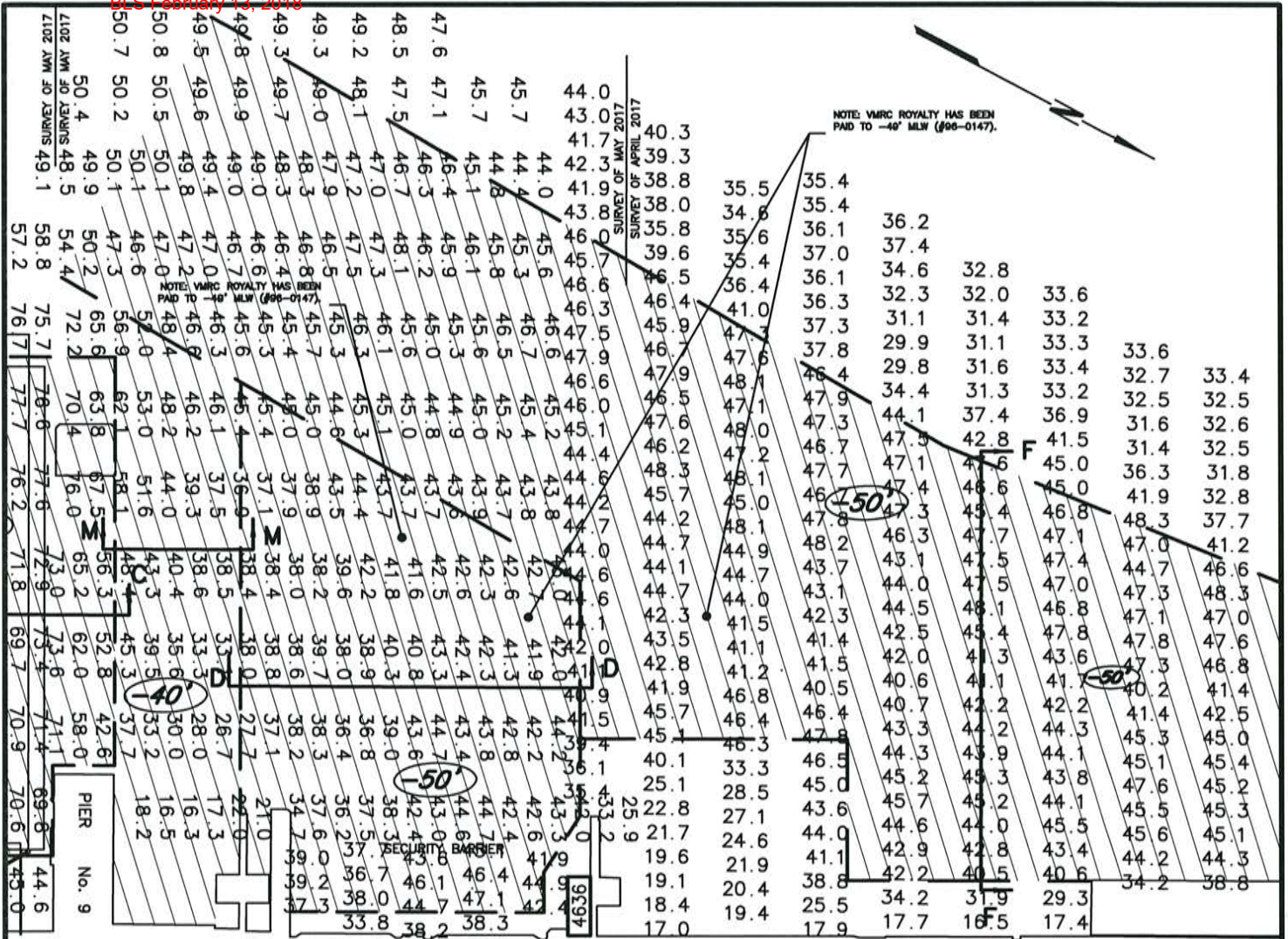
REVISION:



PURPOSE: SAMPLING & MAINT. DREDGING
 DATUM: N.O.S. MLW=0.0'
 ADJACENT PROPERTY OWNERS:
 ① SUNSET TERRACE CORPORATION
 ② MICHAEL T. HOWARD
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PLAN VIEW SHEET 4
 PREPARED BY: Waterway Surveys & Engineering, Ltd. Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
 IN: JAMES RIVER
 CITY: NEWPORT NEWS STATE: VIRGINIA
 APPLICATION BY: HUNTINGTON INGALLS NEWPORT NEWS SHIPYARD
 SCALE: 1"=200' DATE: FEBRUARY 5, 2018
 SHEET 4 OF 19 REVISION:



ADDITIONAL INFO OUTFIT
 REVISION

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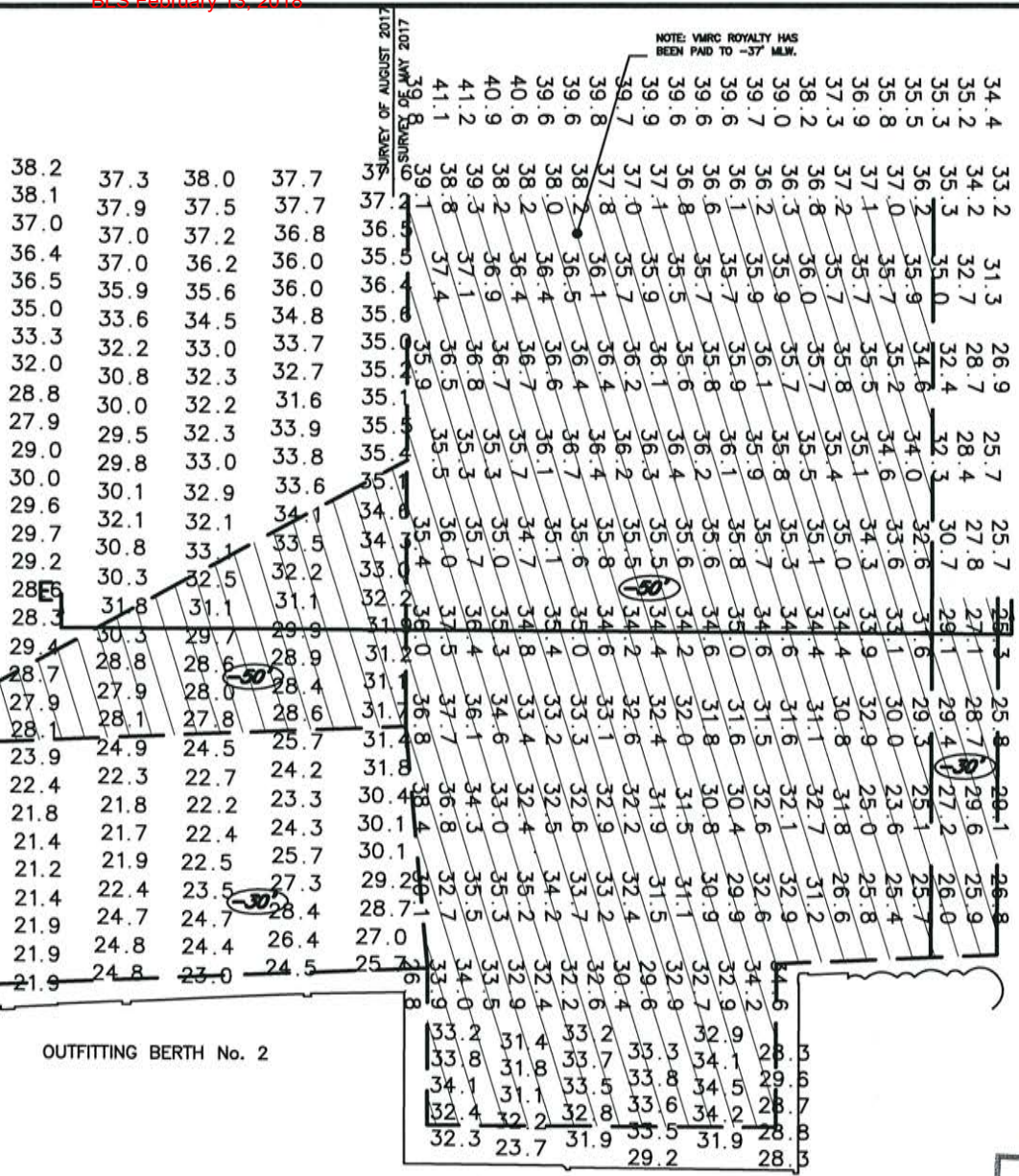
NOT FOR CONSTRUCTION,
 FOR PERMITTING
 PURPOSES ONLY.

PURPOSE: SAMPLING & MAINT. DREDGING
 DATUM: N.O.S. MLW=0.0'
 ADJACENT PROPERTY OWNERS:
 ① SUNSET TERRACE CORPORATION
 ② MICHAEL T. HOWARD

PLAN VIEW
 SHEET 5
 PREPARED BY:
Waterway
 Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
 IN: JAMES RIVER
 CITY: NEWPORT NEWS STATE: VIRGINIA
 APPLICATION BY: HUNTINGTON INGALLS NEWPORT
 NEWS SHIPYARD
 SCALE: 1"=200' DATE: FEBRUARY 5, 2018
 SHEET 5 OF 19 REVISION:

NOTE: VMRC ROYALTY HAS
BEEN PAID TO -37' MLW.



SURVEY OF MAY 2017

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DRY DOCK No. 12

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'
ADJACENT PROPERTY OWNERS:
 ① SUNSET TERRACE CORPORATION
 ② MICHAEL T. HOWARD

PLAN VIEW
SHEET 7
 PREPARED BY:
Waterway
 Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD
SCALE: 1"=200' **DATE: FEBRUARY 5, 2018**
SHEET 7 OF 19 **REVISION:**

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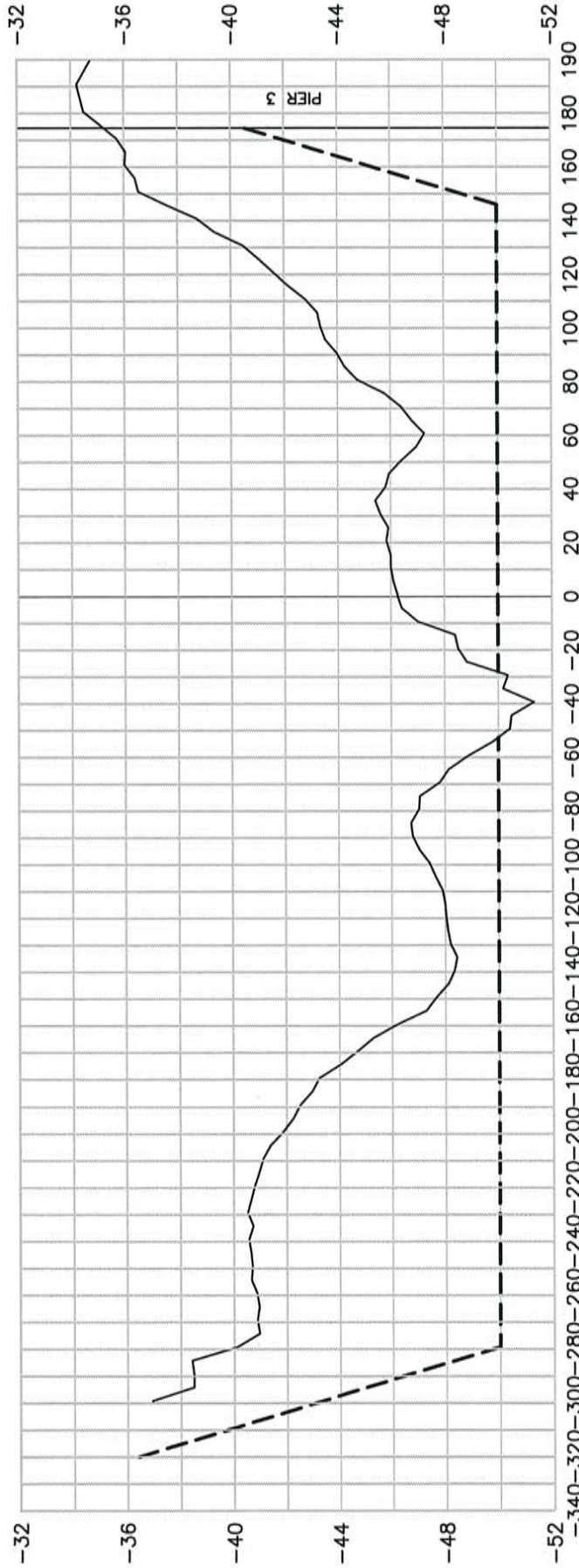
ADDITIONAL INFO
REVISION

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD
SCALE: 1"=60' DATE: FEBRUARY 5, 2018
SHEET 8 OF 19 REVISION:
03M-11-22-08

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

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW-0.0'
ADJACENT PROPERTY OWNERS:
① SUNSET TERRACE CORPORATION
② MICHAEL T. HOWARD

SECTION A-A



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ADDITIONAL INFO
REVISION

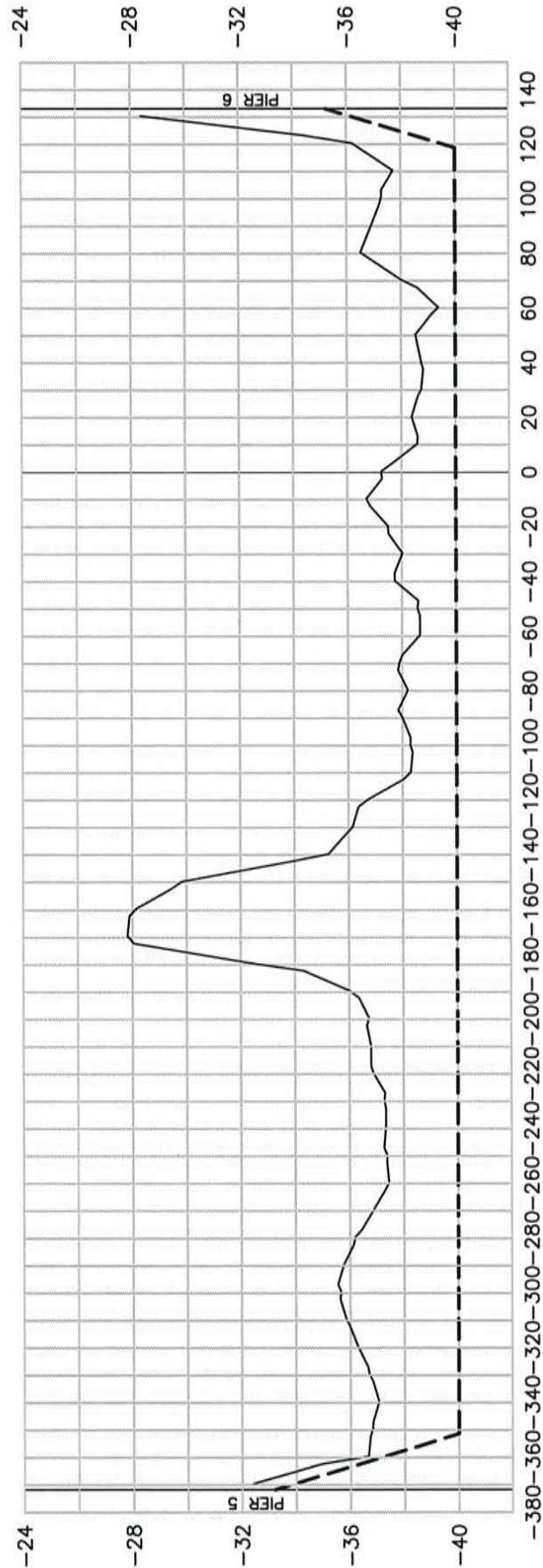
PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD
SCALE: 1"=60' DATE: FEBRUARY 5, 2018
SHEET 9 OF 19 REVISION:
SM-11-22-08

SECTION B-B

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

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW-0.0'
ADJACENT PROPERTY OWNERS:
① SUNSET TERRACE CORPORATION
② MICHAEL T. HOWARD

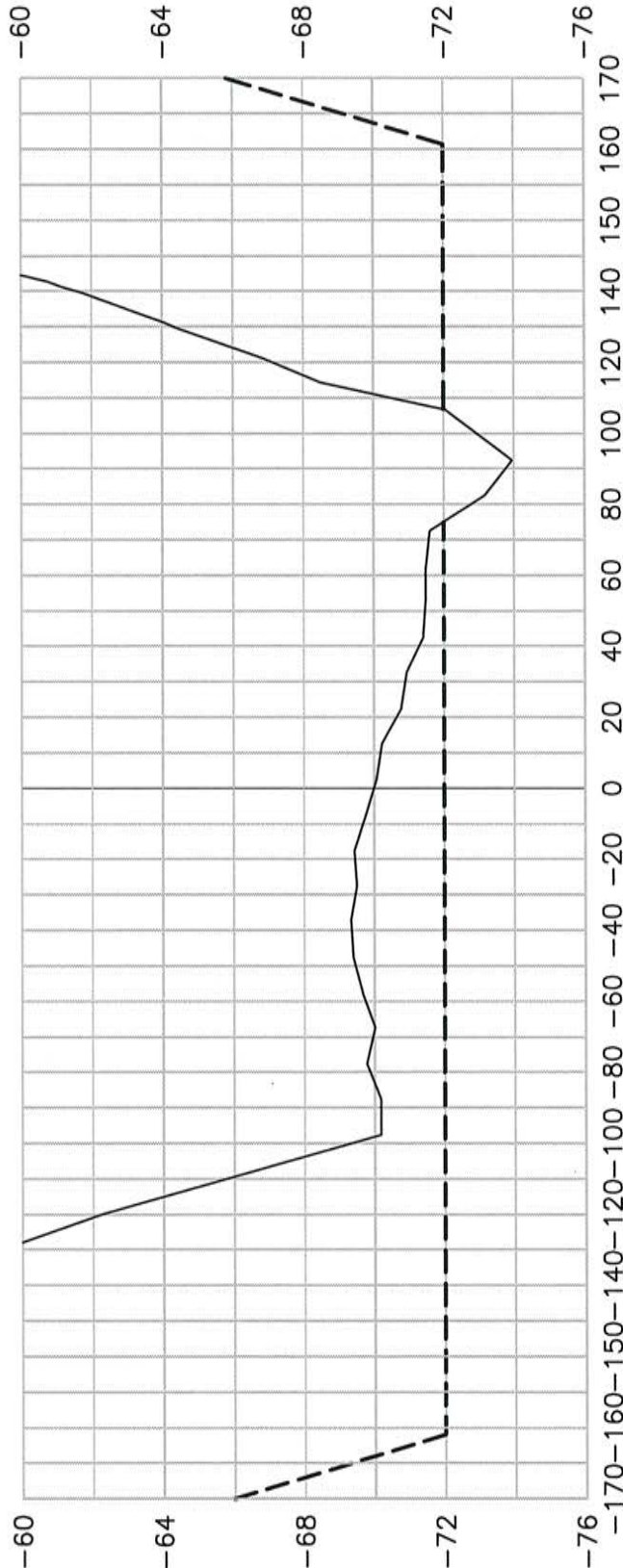
SECTION B-B



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MARINE RESOURCES
COMMISSION

ADDITIONAL INFO
REVISION

SECTION C-C



PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

SECTION
C-C

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER

CITY: NEWPORT NEWS STATE: VIRGINIA

APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

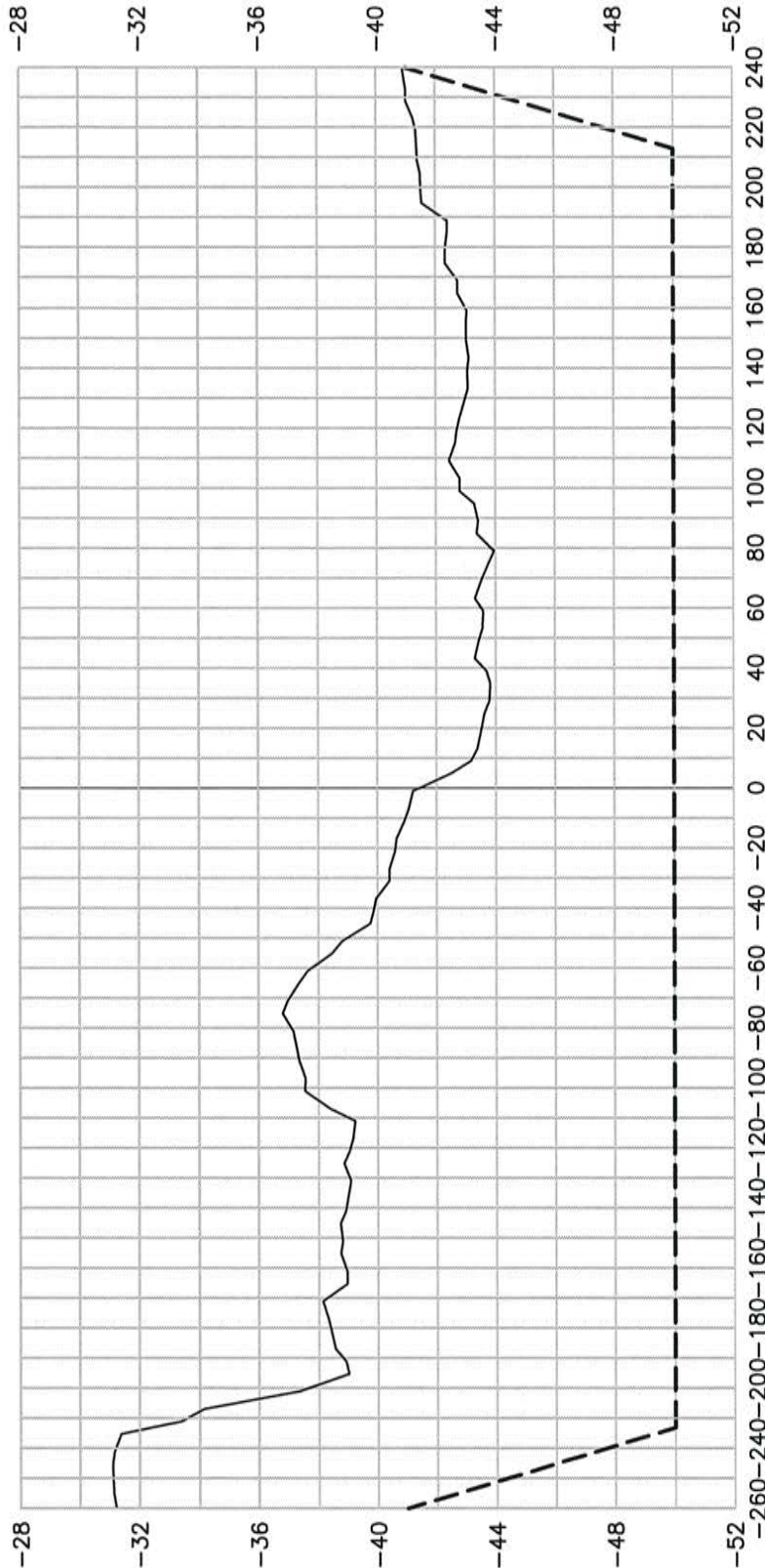
SCALE: 1"=50' DATE: FEBRUARY 5, 2018

SHEET 10 OF 19 REVISION:

SECTION D-D

ADDITIONAL INFO
REVISION

RECEIVED
FEB 13 2018
MARINE RESOURCES
COMMISSION



PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

SECTION
D-D

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

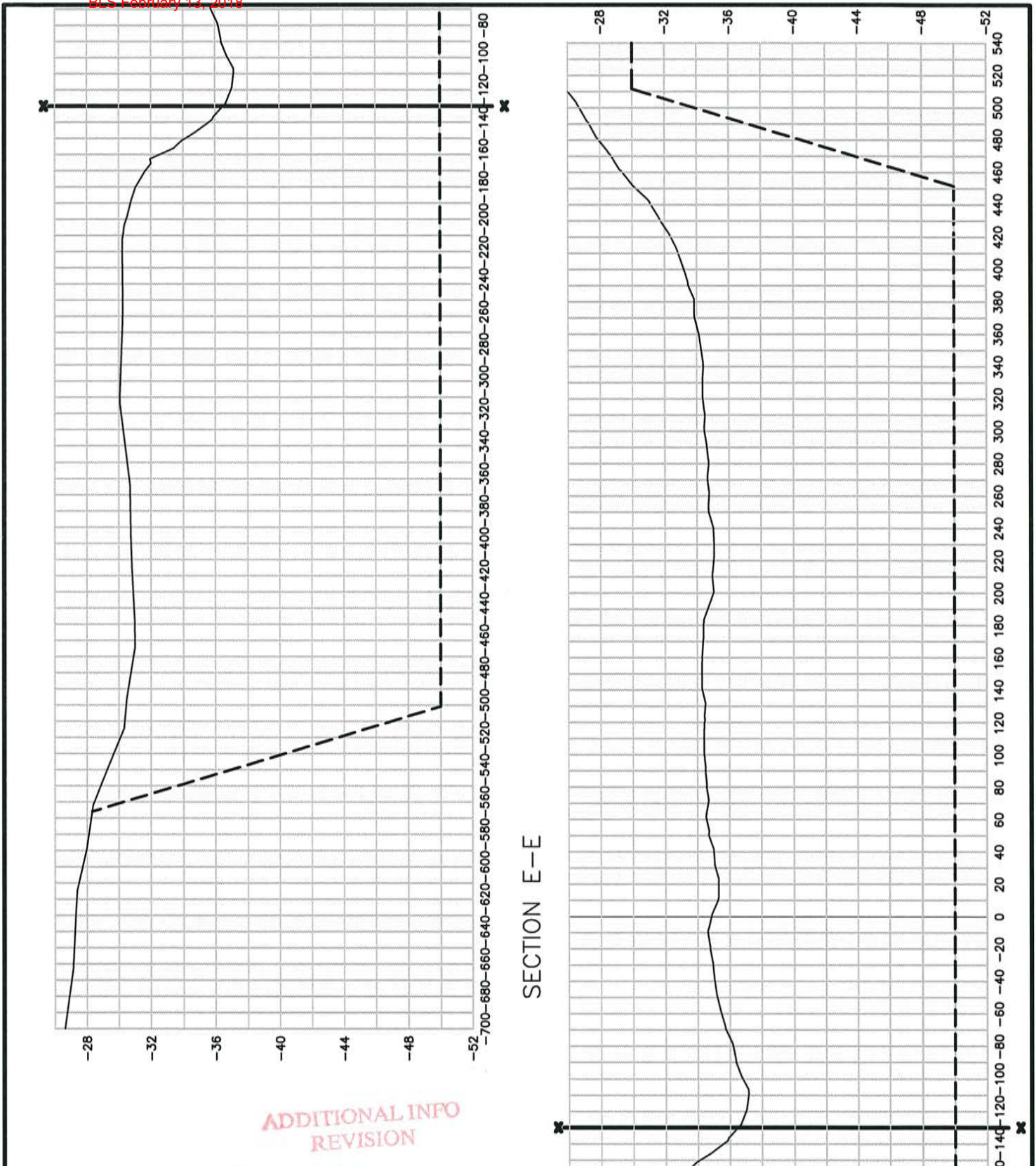
PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER

CITY: NEWPORT NEWS STATE: VIRGINIA

APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=60' DATE: FEBRUARY 5, 2018

SHEET 11 OF 19 REVISION:



ADDITIONAL INFO
REVISION

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

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MARINE RESOURCES
COMMISSION

SECTIONS E-E

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER

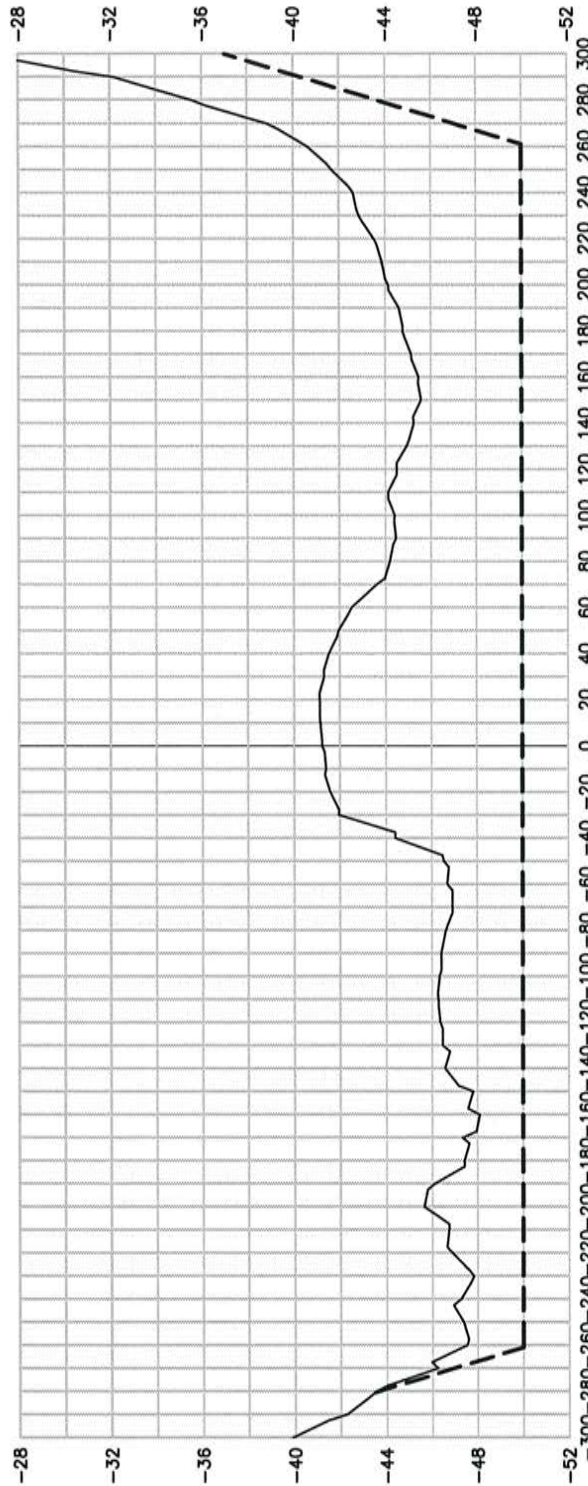
CITY: NEWPORT NEWS STATE: VIRGINIA

APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=80' DATE: FEBRUARY 5, 2018

SHEET 12 OF 19 REVISION:

SECTION F--F



ADDITIONAL INFO
REVISION

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MARINE RESOURCES
COMMISSION

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

SECTIONS
F--F

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=80' DATE: FEBRUARY 5, 2018
SHEET 13 OF 19 REVISION:

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MARINE RESOURCES
COMMISSION

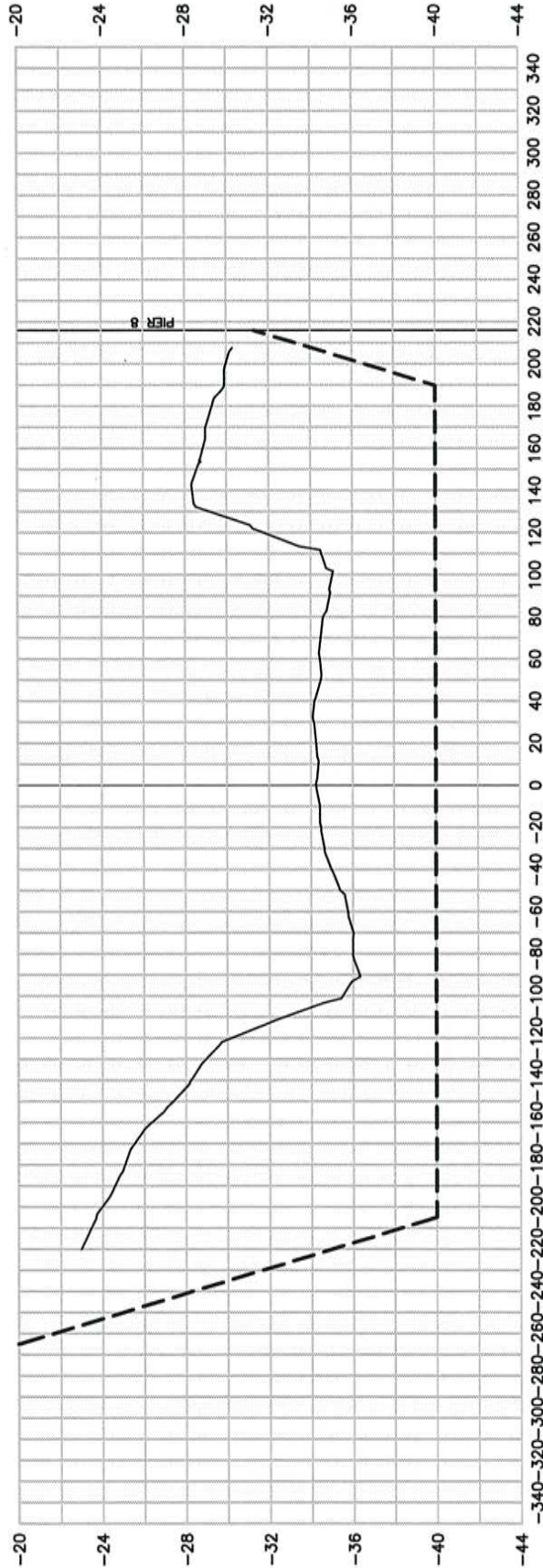
PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD
SCALE: 1"=80' DATE: FEBRUARY 5, 2018
SHEET 14 OF 19 REVISION:
158-11-2-14

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

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW-0.0'
ADJACENT PROPERTY OWNERS:
① SUNSET TERRACE CORPORATION
② MICHAEL T. HOWARD

ADDITIONAL INFO
REVISION

SECTION G-G



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MARINE RESOURCES
COMMISSION

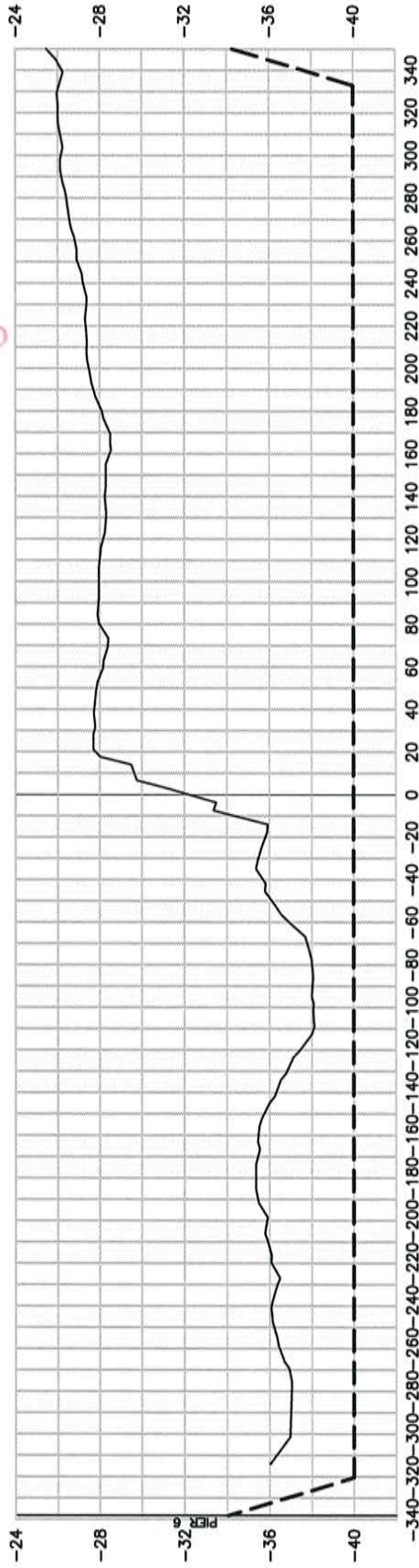
PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD
SCALE: 1"=80' DATE: FEBRUARY 5, 2018
SHEET 15 OF 19 REVISION:
504-14-25-13

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

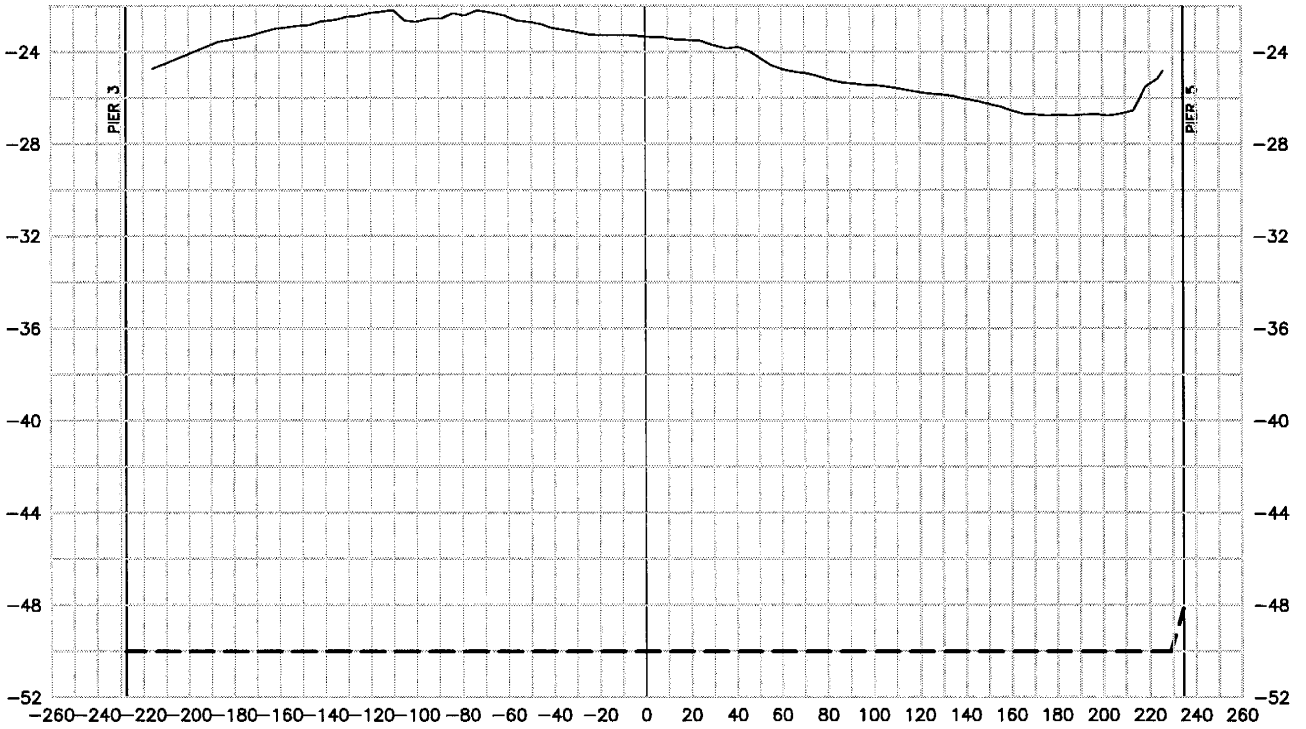
PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'
ADJACENT PROPERTY OWNERS:
① SUNSET TERRACE CORPORATION
② MICHAEL T. HOWARD

ADDITIONAL INFO
REVISION

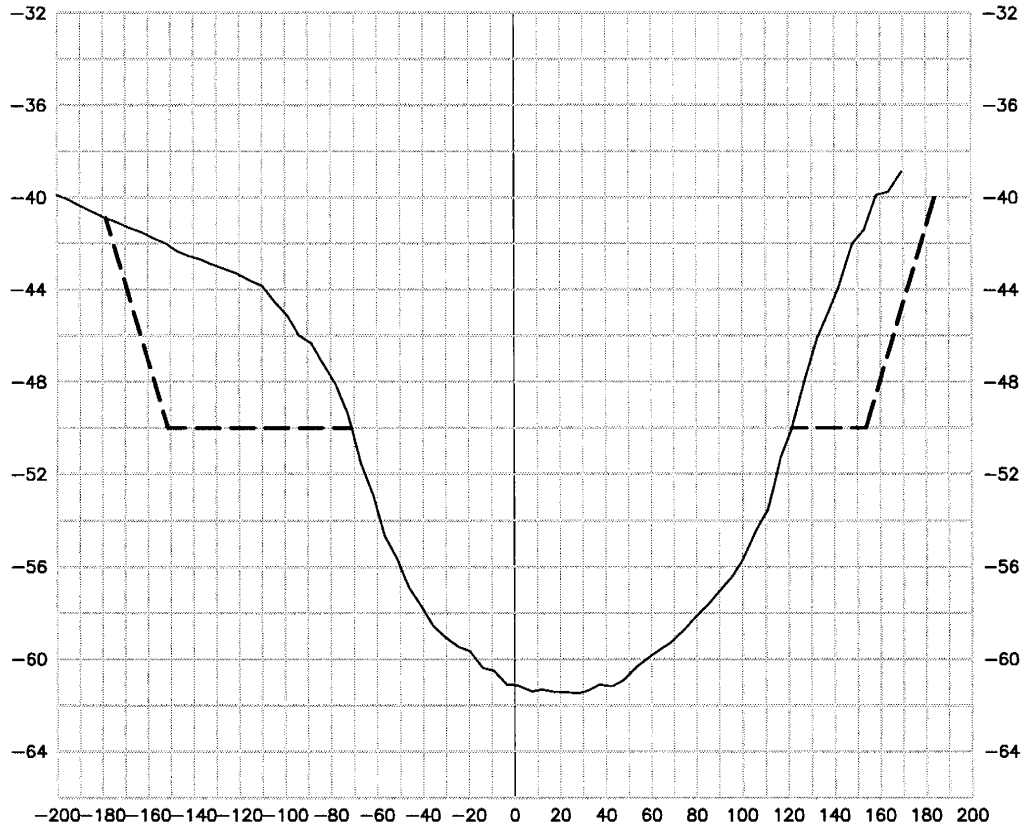
SECTION H-H



SECTION I-I



SECTION J-J



PURPOSE: SAMPLING & MAINT. DREDGING
 DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

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 MARINE RESOURCES
 COMMISSION

**SECTIONS
 I-I & J-J**

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
 IN: JAMES RIVER

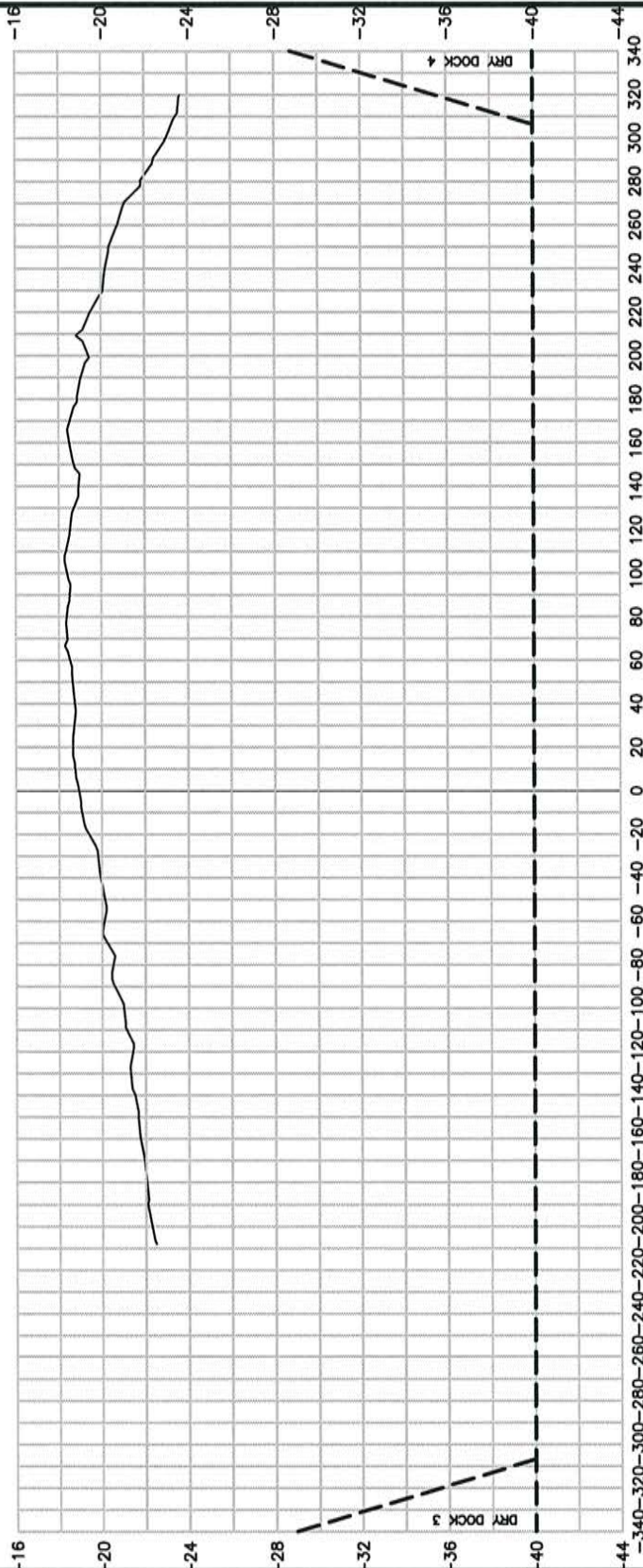
CITY: NEWPORT NEWS STATE: VIRGINIA

APPLICATION BY: HUNTINGTON INGALLS NEWPORT
 NEWS SHIPYARD

SCALE: 1"=80' DATE: FEBRUARY 5, 2018

SHEET 16 OF 19 REVISION:

SECTION K-K



ADDITIONAL INFO
REVISION

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MARINE RESOURCES
COMMISSION

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'

ADJACENT PROPERTY OWNERS:

- ① SUNSET TERRACE CORPORATION
- ② MICHAEL T. HOWARD

SECTION
K-K

PREPARED BY:

Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING

IN: JAMES RIVER

CITY: NEWPORT NEWS STATE: VIRGINIA

APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=80'

DATE: FEBRUARY 5, 2018

SHEET 17 OF 19

REVISION:

SECTION L-L



RECEIVED
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MARINE RESOURCES
COMMISSION

ADDITIONAL INFO
REVISION

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'
ADJACENT PROPERTY OWNERS:
① SUNSET TERRACE CORPORATION
② MICHAEL T. HOWARD

SECTION L-L

PREPARED BY:

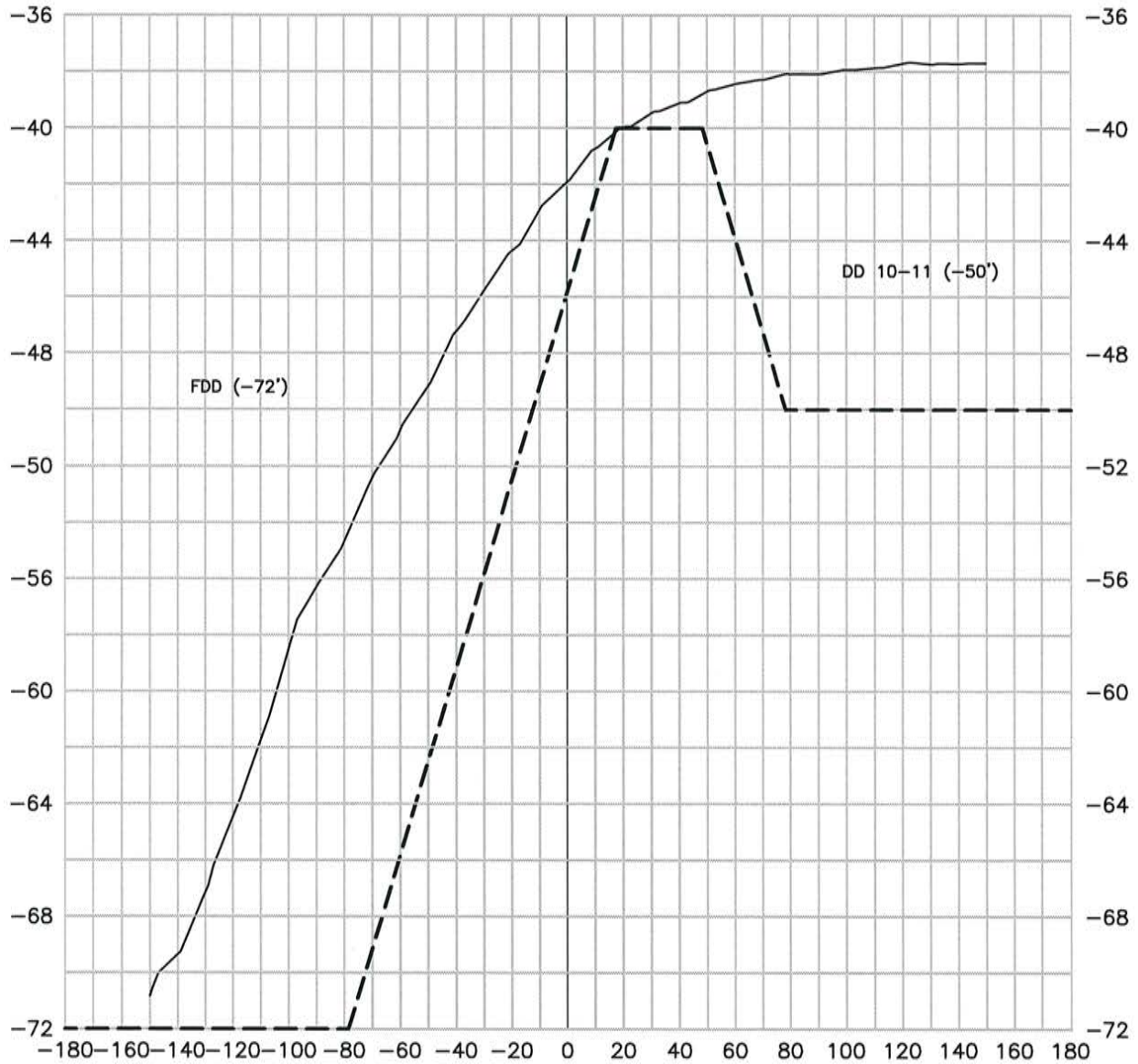
Waterway

Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD

SCALE: 1"=60' DATE: FEBRUARY 5, 2018
SHEET 18 OF 19 REVISION:

SECTION M-M



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MARINE RESOURCES
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ADDITIONAL INFO
REVISION

PURPOSE: SAMPLING & MAINT. DREDGING
DATUM: N.O.S. MLW=0.0'
ADJACENT PROPERTY OWNERS:
① SUNSET TERRACE CORPORATION
② MICHAEL T. HOWARD

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

PROPOSED SAMPLING & DREDGING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: HUNTINGTON INGALLS NEWPORT
NEWS SHIPYARD
SCALE: 1"=60' DATE: FEBRUARY 5, 2018
SHEET 19 OF 19 REVISION:

HII: VMRC New Dredging Royalties

Pier 2 South: -47' to -50' = 29,542 cy

Pier 2 North - Pier 3 North = Royalties have been paid to -50' cy

Pier 5 South: -37' to 50' = 2,907 cy

Pier 5 North - Pier 6 South: -37' to -40' = 51,514 cy

DD1 - DD2 : -37' to -40' = 61,831 cy

DD3: -30'to -40' = 156,267 cY

DD4: -37' to -40' = 23,866 cy

Pier 8 North: -30' to -40' = 37,813 cy

Floating DD: -72' = 38,845 cy

Pier 9 North: -30' to -40' = 18,470 cy

DD10 – DD11: -49' to -50' = 8,379 cy

Outfitting Berth 1: -49' to -50' = 30,780 cy

Outfitting Berth 2: -30' = 60,633 cy

Dry Dock 12 (Triangle Area): -35' to -50' = 47,896 cy

Dry Dock 12: -37' to -50' = 297,308 cy

Dry Dock 12: -27' to -27' to -30' = 2,208 cy



ADDITIONAL INFO
REVISION

Total New Dredging: 868,259 cy