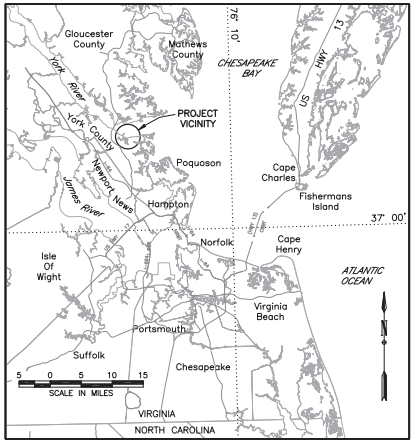
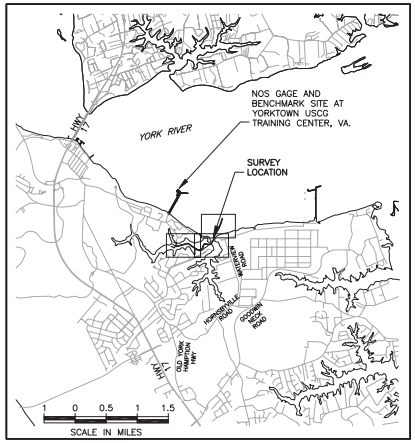
USACE-NLW
RCVD 3/4/2015

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

CENTERLINE COORDINATES		
STATION	EAST (X)	NORTH (Y)
−2+50.0	12,070,828.08	3,607,885.35
−0+60.0	12,070,992.66	3,607,790.41
0+00.0	12,071,044.63	3,607,760.43
0+25.0	12,071,066.29	3,607,747.94
1+20.0	12,071,148.64	3,607,700.47
10+95.0	12,072,091.65	3,607,947.41
11+76.0	12,072,172.65	3,607,942.41
15+61.0	12,072,476.66	3,607,706.40
20+78.0	12,072,921.67	3,607,443.39
21+80.0	12,073,015.67	3,607,390.39
22+81.0	12,073,115.67	3,607,390.39
23+93.0	12,073,225.67	3,607,410.38
25+93.0	12,073,369.68	3,607,550.38
28+96.0	12,073,465.68	3,607,837.38
30+19.0	12,073,559.68	3,607,916.38
34+22.0	12,073,960.69	3,607,873.37
35+93.0	12,074,116.69	3,607,942.37
39+46.0	12,074,301.69	3,608,243.37
42+95.0	12,074,371.69	3,608,585.37
51+05.0	12,074,779.70	3,609,285.37
54+40.0	12,074,906.70	3,609,595.37
59+51.0	12,075,060.70	3,610,082.37



VICINITY MAP



LOCATION MAP

− NOTES −

PROJECT DIMENSIONS: A channel 10 feet deep and 30 feet wide extending from the 5 foot contour in the York River in to the West Branch of Wormley Creek to the U. S. Coast Guard docks and a turning basin 10 feet deep, 300 feet wide and 430 feet long.

MEAN LOWER LOW WATER (MLLW), National Tidal Datum Epoch (NTDE) of 1983−2001, was determined by the National Ocean Service (NOS) at the Yorktown American Oil Company dock, York River, and is 0.82 feet below the North Geodetic Vertical Datum (NGVD), of 1988.

SOUNDINGS are in feet referred to NOS MLLW and were taken on 24 June and 6 September 2014.

MEAN RANGE OF TIDE is 2.20 feet at Yorktown, York river, VA based on NOS observations, NTDE 1983−2001.

COORDINATES are referred to the Virginia State Plane Coordinate System, South Zone in U.S. survey feet, and are based on the North American Datum of 1983.

PLANIMETRIC FEATURES were developed by digitizing from existing data.

LAST DREDGED by Virginia Marine Structures, Inc in 2000.

The information depicted on this map represents the results of surveys made on the date(s) indicated and can only be considered as indicating the general conditions existing at that time.

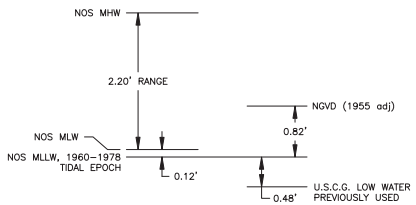
− LEGEND −

- LIMITS OF FEDERAL PROJECT
- WITHIN THIS AREA THE REMOVAL OF ALL MATERIAL TO A MAXIMUM ALLOWABLE DEPTH OF 10 FEET.
- OYSTER LEASE GROUNDS
- SHORELINE
- SEDIMENT SAMPLING LOCATIONS AND ANALYTICAL SAMPLE IDs

BENCHMARKS	
BENCHMARKS	ELEVATIONS
USC&GS "L 418, 1963"	+9.80'
NOS "2200 B, 1980"	+9.90'
USCG "EL. 12.679 FT."	+13.10'
NOS "7689 B, 2004"	+11.43'
Elevations are relative to NOS MLLW, 1983−2001 NTDE	

INDEX TO DRAWINGS

SHEET NO.	TITLE	FILE NUMBER
1	TITLE SHEET	FILE NO. WMC.2014−06−24.PS(1)
2	OVERALL VIEW	FILE NO. WMC.2014−06−24.PS(2)
3	MAPPING SHEET	FILE NO. WMC.2014−06−24.PS(3)
4	MAPPING SHEET	FILE NO. WMC.2014−06−24.PS(4)
5	MAPPING SHEET	FILE NO. WMC.2014−06−24.PS(5)
6	MAPPING SHEET	FILE NO. WMC.2014−06−24.PS(6)
7	CROSS−SECTIONS	FILE NO. WMC.2014−06−24.PS(7)
8	CROSS−SECTIONS	FILE NO. WMC.2014−06−24.PS(8)



DATUM DIAGRAM
1960−1978 TIDAL EPOCH
(SCALE 1"=1')

SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDICATED ON INDEX TO DRAWINGS.

DEPARTMENT OF THE ARMY
NORFOLK DISTRICT, CORPS OF ENGINEERS
NORFOLK, VIRGINIA

REVIEWED: CHIEF, NAVIGATION SUPPORT AND SURVEY SECTION	APPROVED: CHIEF, OPERATIONS BRANCH
SUBMITTED: CHIEF, DESIGN SECTION	APPROVED: CHIEF, WATER RESOURCES DIVISION

US Army Corps of Engineers Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

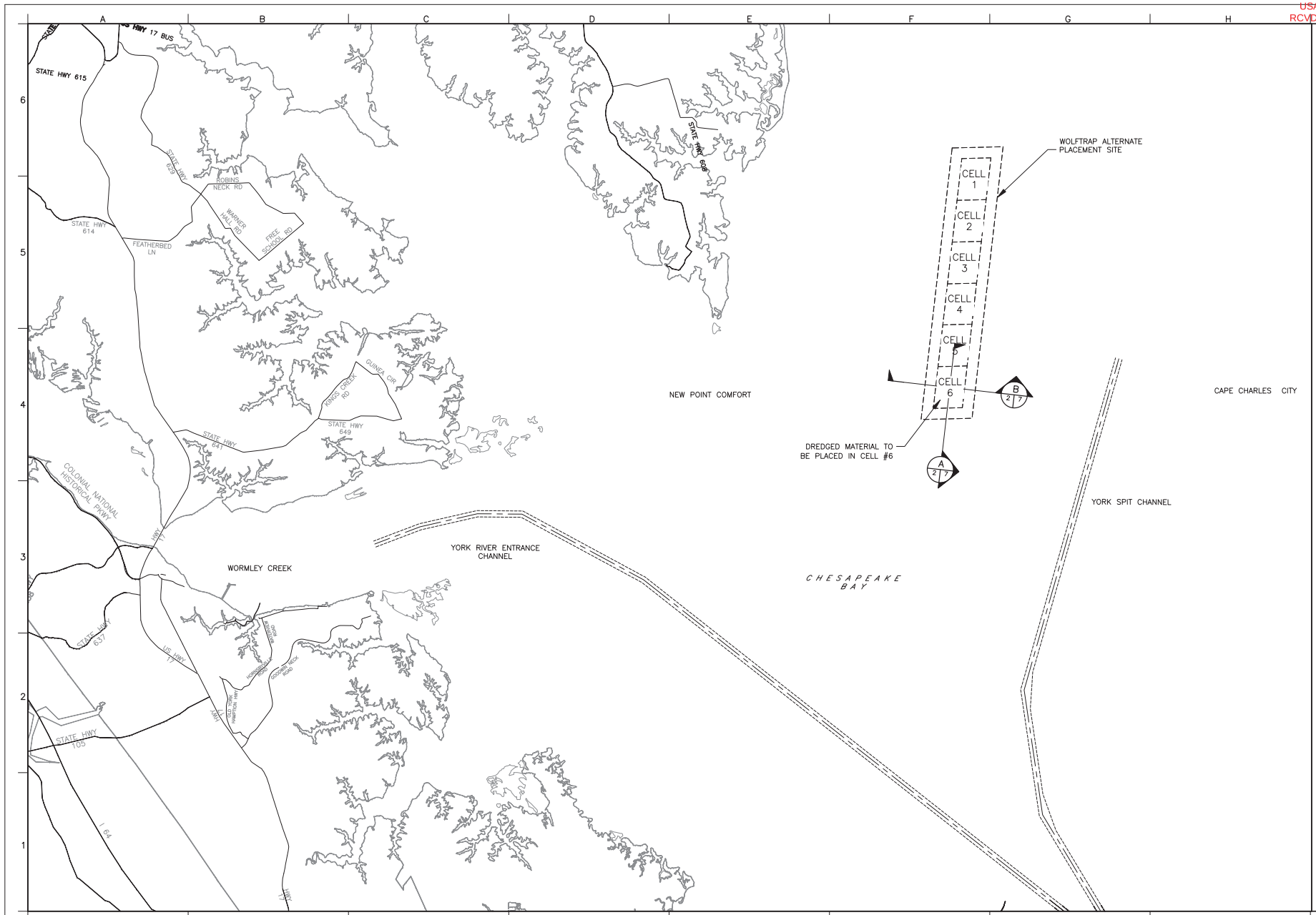
DESIGNED: DRAWN: H.A.F. CHECKED: C.S.R. QUANTITIES: K.L.G. DATE: 25 SEP 14 SCALE: AS SHOWN NORFOLK DISTRICT FILE NO.: WMC.2014−06−24.PS(1) DRAWING NO.: SURVEYED BY: T.H.W.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 1 OF 8

USACE-NLW
RCVD 3/4/2015



US Army Corps of Engineers
Norfolk District

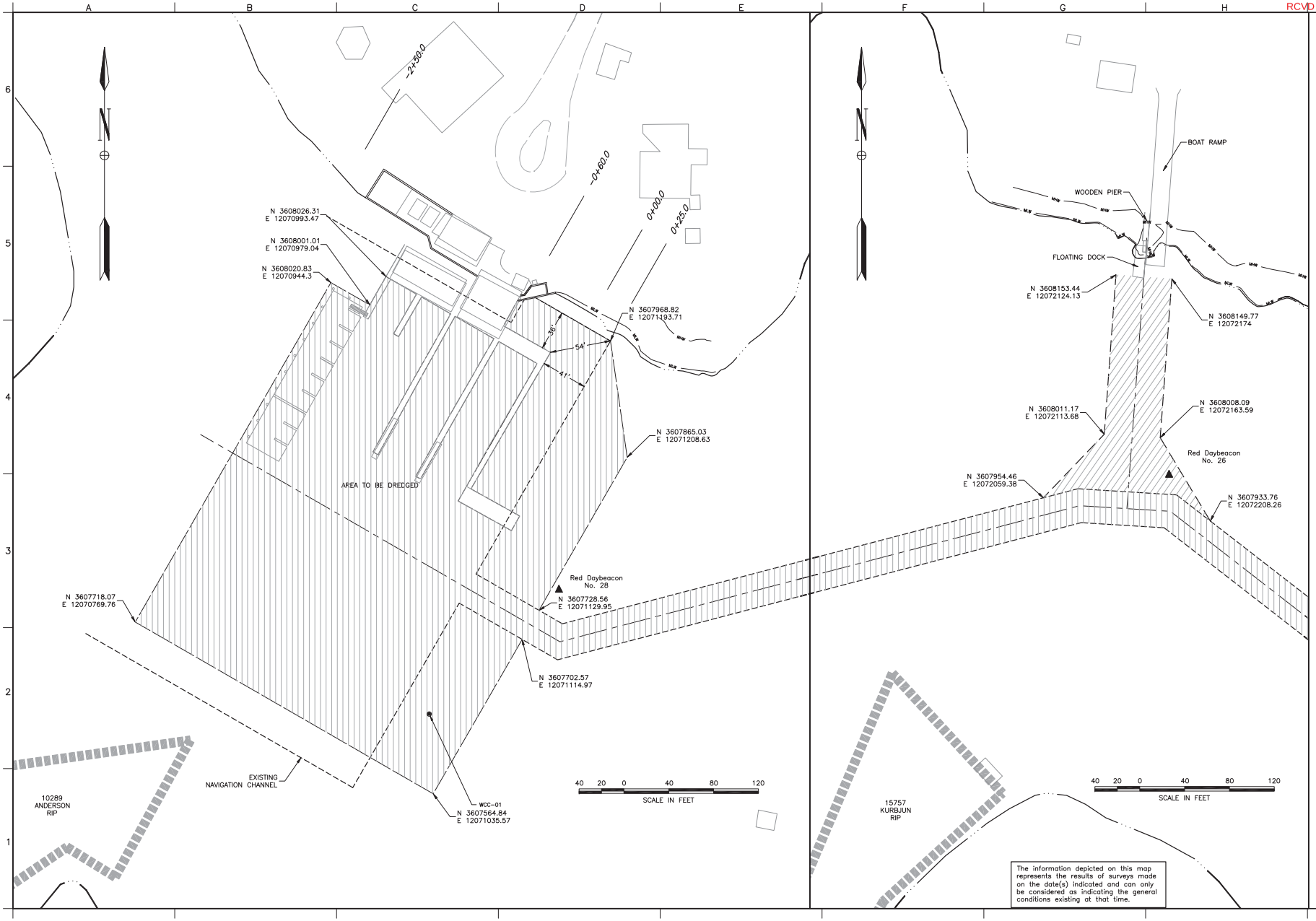
REV.	DATE	DESCRIPTION	BY	APP

DESIGNED:
DRAWN: H.A.F.
CHECKED: C.S.R.
QUANTITIES: K.L.G
DATE: 25 SEP 14
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. NWK-2014-06-24.PS(2)
DRAWING NO.:
SURVEYED BY: T.K.W.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

USACE-NLW
RCVD 3/4/2015



US Army Corps of Engineers
Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

DESIGNED:
DRAWN: H.A.F.
CHECKED: C.S.R.
SUBMITTED: K.L.G.
DATE: 25 SEP 14
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. NWK-2014-06-24-PSP(3)
DRAWING NO.:
SURVEYED BY: T.K.W.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 3 OF 8

USACE-NAO
RCVD 3/4/2015

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 4 OF 8

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

DESIGNED: DRAWN: H.A.F.
CHECKED: C.S.R. SUBMITTED: K.L.G
DATE: 25 SEP 14 SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO.: NAO-2014-00624
DRAWING NO.: WMC-2014-06-24.PS(4)
SURVEYED BY: T.H.W.

US Army Corps of Engineers Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

WEST BRANCH WORMLEY CREEK

Red Daybeacon No. 26
Red Daybeacon No. 24
Red Daybeacon No. 28

WCC-01
WCC-02
WCC-03

BOAT RAMP
WOODEN PIER
FLOATING DOCK

15757 KURBUN RIP.
10269 ANDERSON RIP.

UNDERGROUND GAS LINE - SEE NOTE 2

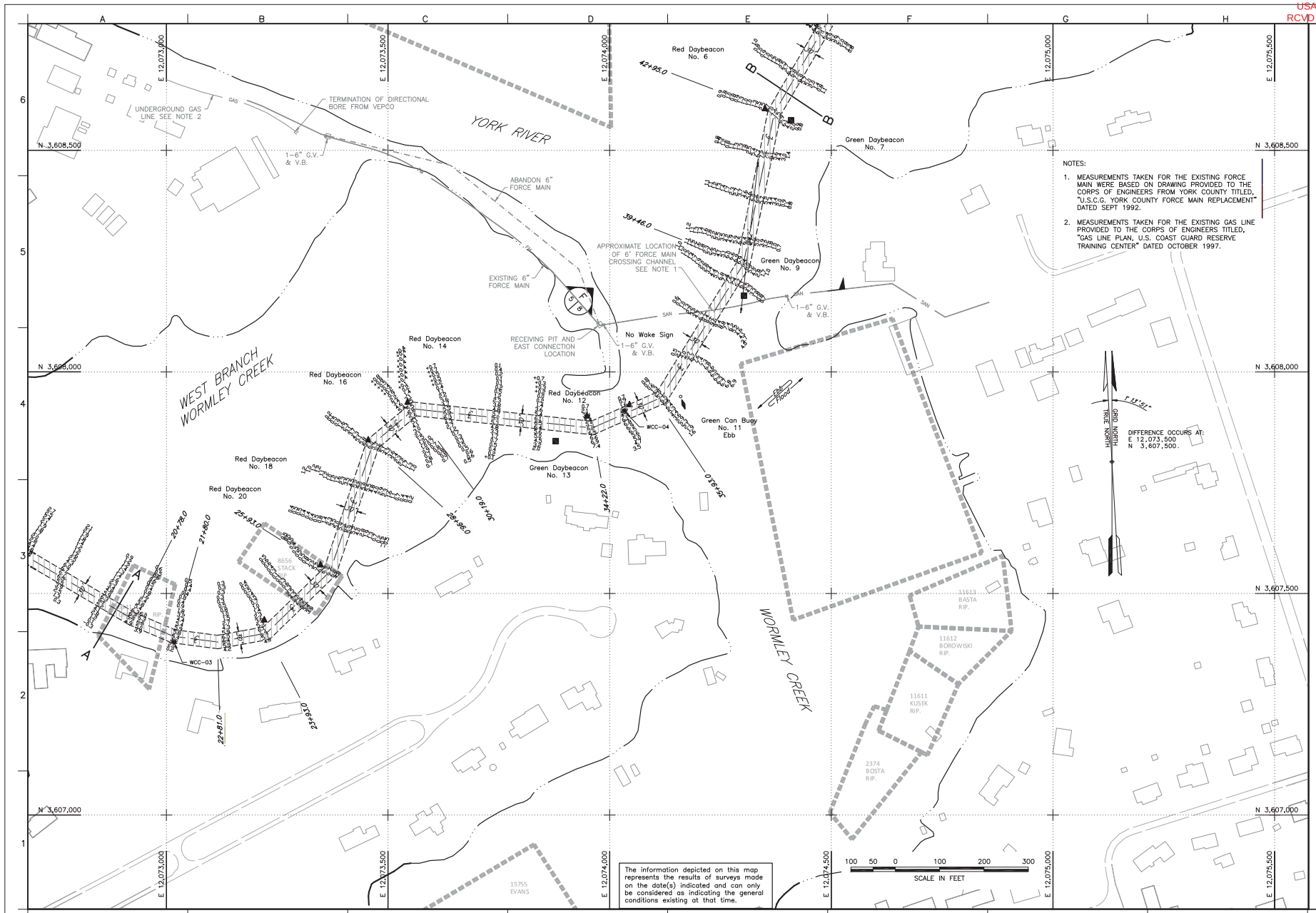
DIFFERENCE OCCURS AT:
E 12,072,000
N 3,608,000

GRID NORTH
TRUE NORTH

SCALE IN FEET
100 50 0 100 200 300

The information depicted on this map represents the results of surveys made on the date(s) indicated and can only be considered as indicative of the general conditions existing at that time.

USACE-NLW
RCVD 3/4/2015



NOTES:

1. MEASUREMENTS TAKEN FOR THE EXISTING FORCE MAIN WERE BASED ON DRAWING PROVIDED TO THE CORPS OF ENGINEERS FROM YORK COUNTY TITLED, "U.S.C.G. YORK COUNTY FORCE MAIN REPLACEMENT" DATED SEPT 1992.
2. MEASUREMENTS TAKEN FOR THE EXISTING GAS LINE PROVIDED TO THE CORPS OF ENGINEERS TITLED, "GAS LINE PLAN, U.S. COAST GUARD RESERVE TRAINING CENTER" DATED OCTOBER 1997.

The information depicted on this map represents the results of surveys made on the date(s) indicated and can only be considered as indicating the general conditions existing at that time.

100 50 0 100 200 300
SCALE IN FEET

US Army Corps of Engineers Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

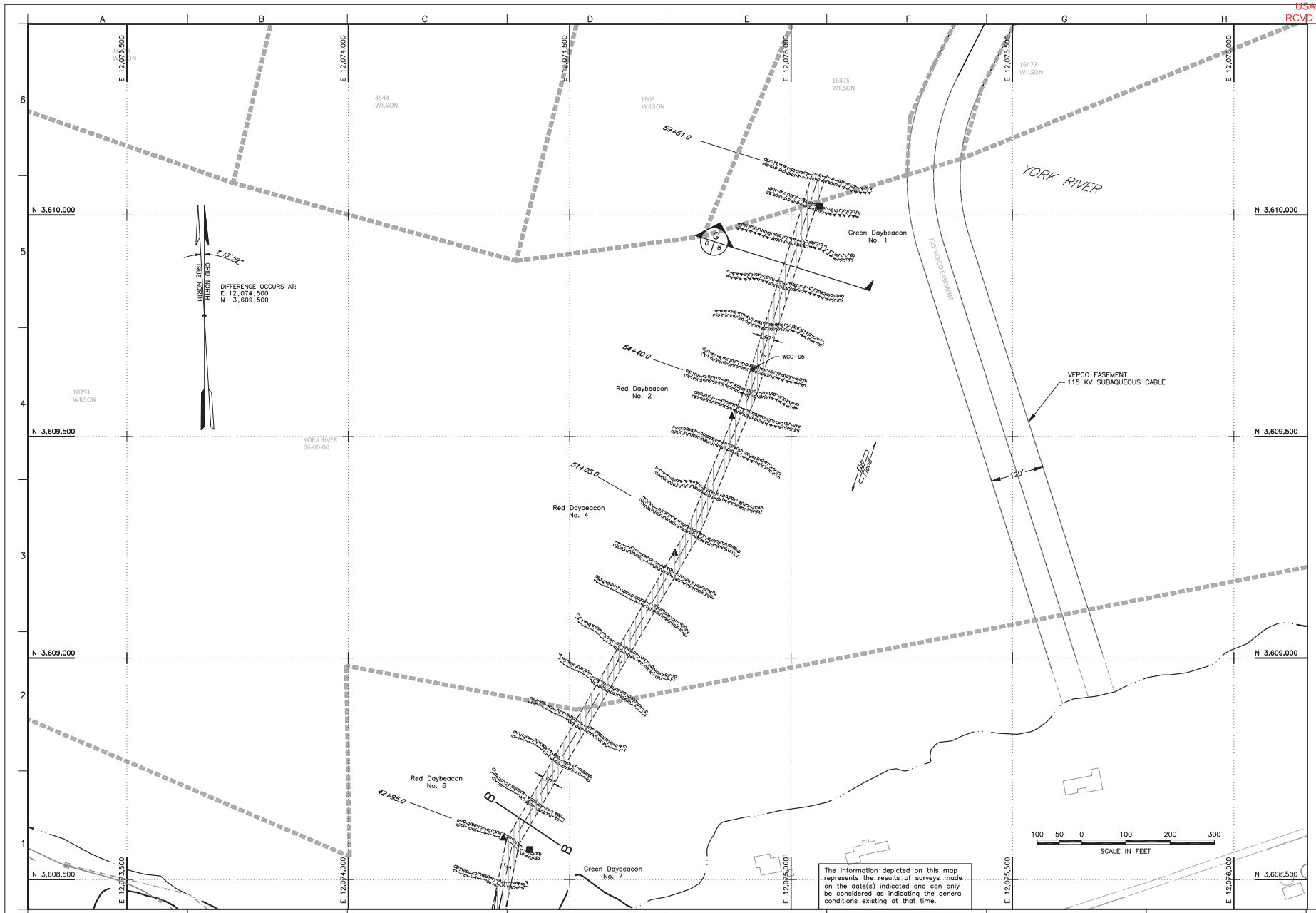
DESIGNED:
DRAWN: H.A.F.
CHECKED: C.S.R.
QUALIFIED: K.L.G.
DATE: 25 SEP 14
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. NWK-2014-06-24-PS(5)
DRAWING NO.:
SURVEYED BY: T.K.W.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 5 OF 8

USACE-NLW
RCVD 3/4/2015



US Army Corps of Engineers Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

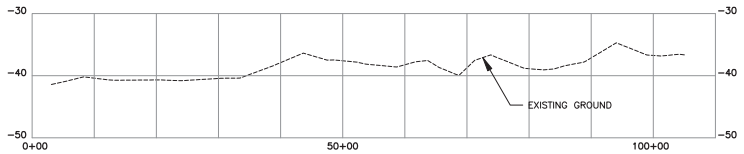
NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

DESIGNED:
DRAWN: H.A.F.
CHECKED: C.S.R.
SUBMITTED: K.L.G.
DATE: 25 SEP 14
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. WMC-2014-06-24.PS(6)
DRAWING NO.:
SURVEYED BY: T.K.W.

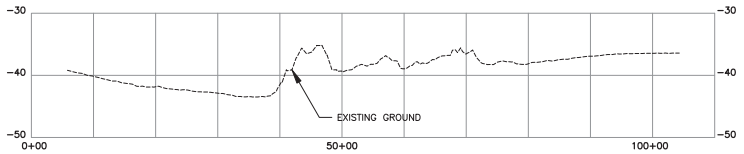
U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 6 OF 8

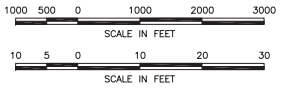
USACE-NLW
RCVD 3/4/2015



A 2 7 TYPICAL PLACEMENT SITE CROSS-SECTION
SCALE: AS SHOWN



B 2 7 TYPICAL PLACEMENT SITE CROSS-SECTION
SCALE: AS SHOWN



US Army Corps of Engineers Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

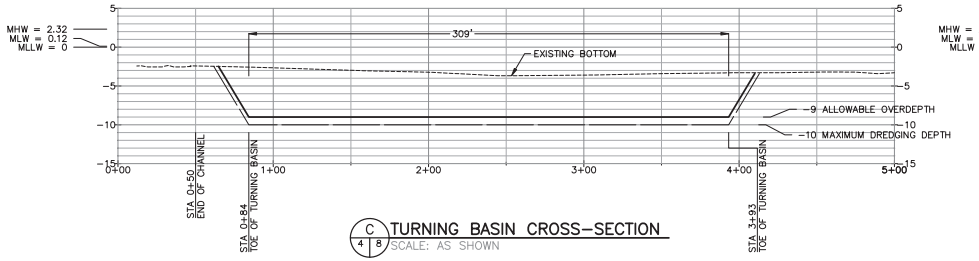
DESIGNED:
DRAWN: H.A.F.
CHECKED: C.S.R.
SUBMITTED: K.L.G.
DATE: 25 SEP 14
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. WMC-2014-06-24-PS(7)
DRAWING NO.:
SURVEYED BY: T.K.W.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

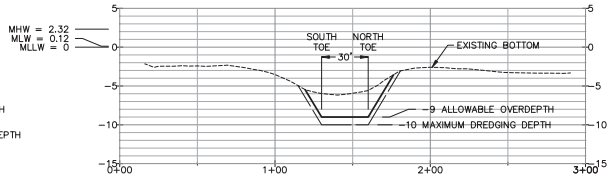
U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 7 OF 8

USACE-NLW
RCVD 3/4/2015



C 4 8 TURNING BASIN CROSS-SECTION
SCALE: AS SHOWN



E 4 8 CHANNEL CROSS-SECTION
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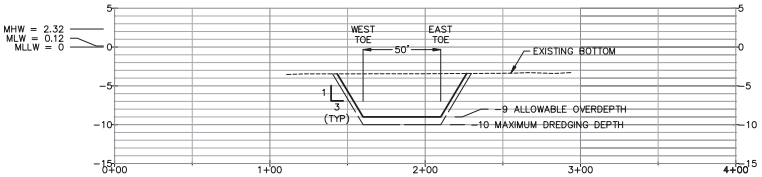

D 4 8 NEW NAVAL ENTRANCE CHANNEL CROSS-SECTION
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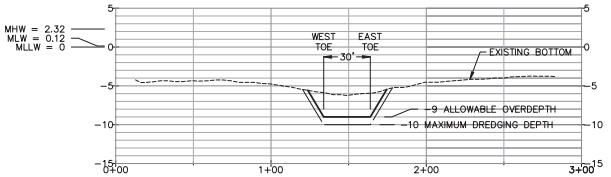

G 6 8 CHANNEL CROSS-SECTION
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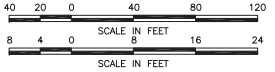

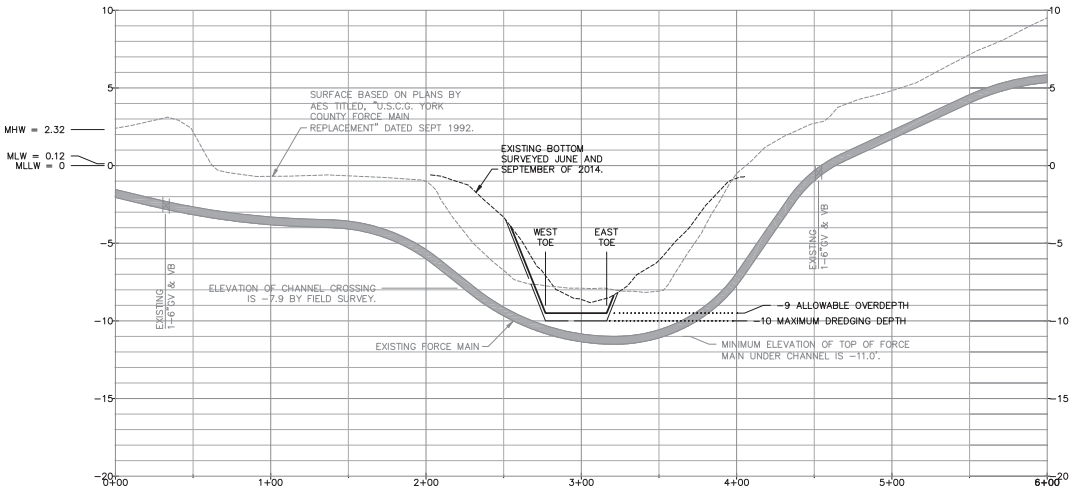

F 5 8 FORCE MAIN CHANNEL CROSSING CROSS-SECTION
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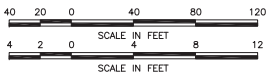

US Army Corps of Engineers
Norfolk District

REV.	DATE	DESCRIPTION	BY	APP

DESIGNED:
DRAWN: H.A.F.
CHECKED: C.S.R.
QUANTITIES: K.L.G.
DATE: 25 SEP 14
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. NWN-2014-06-24-PSC(8)
DRAWING NO.:
SURVEYED BY: T.K.W.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

U.S. COAST GUARD TRAINING FACILITIES
WORMLEY CREEK
PERMIT DRAWING
SURVEY OF JUNE AND SEPTEMBER 2014
YORK RIVER, VIRGINIA

SHEET 8 OF 8