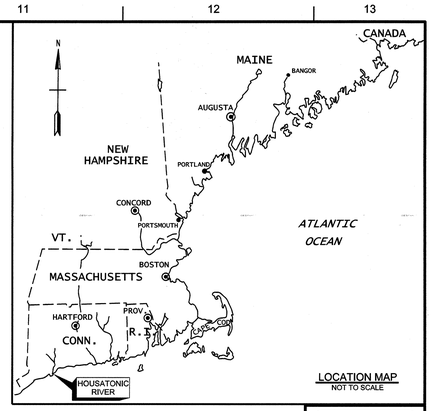
INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
FL G-1 BELL	02/04/16	N 618000.24 E 906206.60	41°-09'-24.1"N 73°-05'-26.1"W
GC-1A	02/04/16	N 619053.48 E 904743.67	41°-09'-34.4"N 73°-05'-45.3"W
RN-2	02/04/16	N 619247.50 E 905976.83	41°-09'-36.3"N 73°-05'-42.3"W
GC-3	02/04/16	N 620379.86 E 903314.56	41°-09'-47.5"N 73°-06'-04.1"W
RN-4	02/04/16	N 620861.36 E 902975.06	41°-09'-52.2"N 73°-06'-08.5"W
RN-8	02/04/16	N 622543.00 E 901341.95	41°-10'-08.7"N 73°-06'-30.0"W
GC-9	02/04/16	N 623547.49 E 899978.80	41°-10'-18.6"N 73°-06'-47.9"W
RN-10	02/04/16	N 623665.89 E 900178.32	41°-10'-19.8"N 73°-06'-45.3"W
RN-12	02/04/16	N 625395.64 E 897782.71	41°-10'-36.8"N 73°-07'-16.7"W
RN-14	02/04/16	N 625994.84 E 897367.09	41°-10'-42.7"N 73°-07'-22.2"W
RN-16	02/04/16	N 627520.52 E 897367.52	41°-10'-51.8"N 73°-07'-22.2"W
RN-18	02/04/16	N 629033.17 E 897766.73	41°-11'-12.7"N 73°-07'-17.1"W
GC-19	02/09/16	N 630033.43 E 898443.22	41°-11'-22.6"N 73°-07'-08.3"W
GC-21	02/09/16	N 630170.58 E 899298.36	41°-11'-24.0"N 73°-06'-57.1"W
GC-23	02/09/16	N 630816.53 E 899703.60	41°-11'-30.4"N 73°-06'-51.9"W
RN-24	02/04/16	N 634946.03 E 904259.37	41°-10'-11.3"N 73°-06'-31.7"W
RN-26	02/04/16	N 636574.82 E 901019.63	41°-12'-27.4"N 73°-06'-35.0"W
GC-27	02/09/16	N 637042.92 E 900824.97	41°-12'-32.0"N 73°-06'-37.5"W
GC-29	02/09/16	N 630044.42 E 901179.91	41°-12'-51.8"N 73°-06'-33.0"W



LOCATION MAP
NOT TO SCALE

LONG ISLAND SOUND

18-FOOT CHANNEL

7-FOOT MILL BAR CHANNEL

7-FOOT CULVERS BAR CHANNEL

INTERSTATE 95 BRIDGE

WASHINGTON HIGHWAY BRIDGE (ROUTE 1)

RAILROAD BRIDGE

MILFORD

STRATFORD

MILFORD POINT

STRATFORD POINT

POPES ISLAND

LONG ISLAND

CARTING ISLAND

PEACOCK ISLAND

NELLS ISLAND

HOUSATONIC RIVER

SHEET V-101

SHEET V-102

SHEET V-103

SHEET V-104

SHEET V-105

SHEET V-106

SHEET V-107

SHEET V-108

SHEET V-109

SHEET V-110

FLOOD

EBB

IGOR I. SIKORSKY MEMORIAL AIRPORT

A5 GENERAL PLAN
SCALE: 1" = 1000'
0 1000' 2000'

GENERAL NOTES:

1. SOUNDINGS ARE IN FEET AND TENTHS. THE REFERENCE PLANE IS MEAN LOWER LOW WATER (MLLW) AND IS BASED ON THE 1983-2001 TIDAL EPOCH. SOUNDINGS NOTED WITH A (+) ARE ABOVE THE REFERENCE PLANE OF MLLW. SOUNDINGS WITHOUT A SIGN ARE BELOW THE REFERENCE PLANE OF MLLW, AND SHOULD BE CONSIDERED NEGATIVE.

2. TOPOGRAPHY SHOWN IS FROM PREVIOUS SURVEYS, AERIAL IMAGERY AND/OR NOAA CHART NO. 12370. ALL TOPOGRAPHY, INCLUDING SHORELINE, BRIDGES, PIERS, ETC., IS LOCATED APPROXIMATE UNLESS OTHERWISE NOTED AND SHOULD BE USED AS A GENERAL REFERENCE ONLY.

3. BENCH MARK DATA: TIDES WERE RECORDED USING RTK GPS.
THE MLLW TO NAVD88 CORRECTION FOR THIS PROJECT IS 3.62 FEET.
THE CORRECTION IS REFERENCED FROM NOAA'S V-DATUM MODEL IN THE VICINITY OF HOUSATONIC RIVER, CONNECTICUT.
NAVD88 IS ABOVE MLLW; THEREFORE THE CORRECTION SHOULD BE ADDED TO NAVD88 TO CONVERT TO MLLW.
NO TIDE GAUGES WERE USED ON THIS PROJECT.
THE AVERAGE RANGE OF TIDE IS 6.6 FEET.

4. COORDINATES SHOWN ARE BASED ON THE LAMBERT GRID SYSTEM FOR THE STATE OF CONNECTICUT (ZONE 0600), NAD 1983 AND ARE BASED ON U.S. SURVEY FEET.

5. SURVEY WAS PERFORMED USING AN R2 SONIC 2024 MULTIBEAM SONAR SYSTEM OPERATING AT 300 KHZ. HORIZONTAL POSITIONING AND REAL TIME TIDE READINGS WERE RECORDED UTILIZING A TRIMBLE SPS 855 RTK GPS SYSTEM. THE RTK BASE STATIONS USED WERE STATION DOCK (2005) AND STRATFORD (2012).

6. THE SOUNDING INFORMATION SHOWN ON THESE MAPS REPRESENTS THE SHOALEST SOUNDINGS OF THOSE OBTAINED FROM HYDROGRAPHIC SURVEYS CONDUCTED DURING FEBRUARY 2016. THE DATA DEPICTED ON THESE MAPS SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.

7. THE INFORMATION DEPICTED ON THESE MAPS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED, AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.

8. FIELD BOOK: R&H 4550
18-FOOT DEPTH CONTOUR SHOWN THUS:
SURVEYED BY: ROBERT MACGOVERN AND CREW
REFER TO SURVEY NO. 16-1397

US Army Corps of Engineers®

DATE	MARK	DESCRIPTION

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

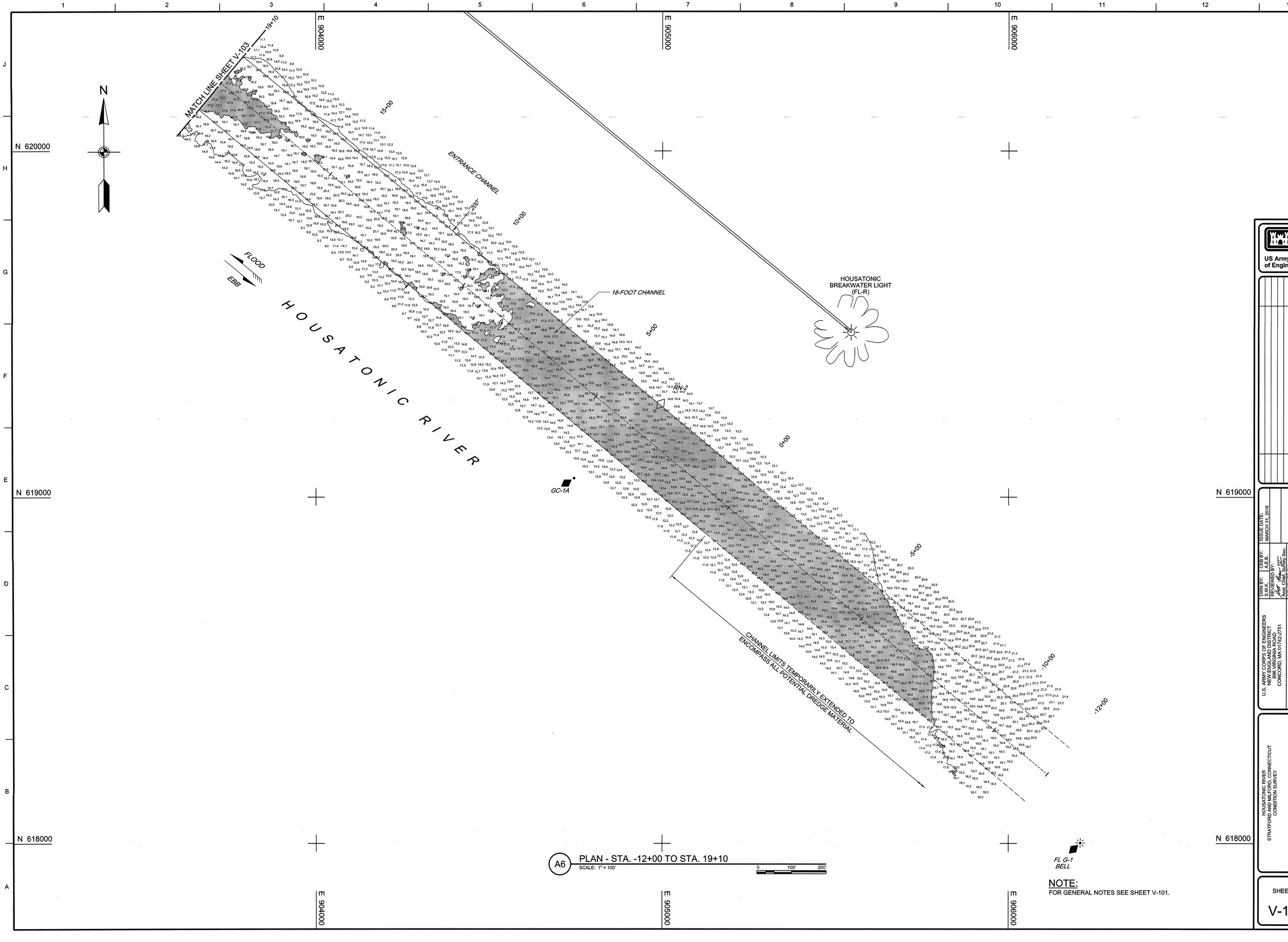
DWN BY: S.W.K. | CKD BY: A.E.B.
APPROVED BY: Alfred E. Brigham, Asst. Chief, Survey Sec.
REVIEWED BY: Matthew J. Kane, Chief, Survey Section
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 1 OF 10
SIZE: ANSI E | SCALE: 1:1

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-101

pw://COE-NAEPWP01CON.nae.ds.usace.army.mil:coe-naepwp01con.nae.ds.usace.army.mil/Documents/Civil Works/Navigation/Connecticut/Housatonic River/Mar. 2016 Project Condition Survey/ProjectData/CAD_BIM/_Sheets/HOU-515_V-101
V-101 31-MAR-2016 08:12 MicroStation



NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

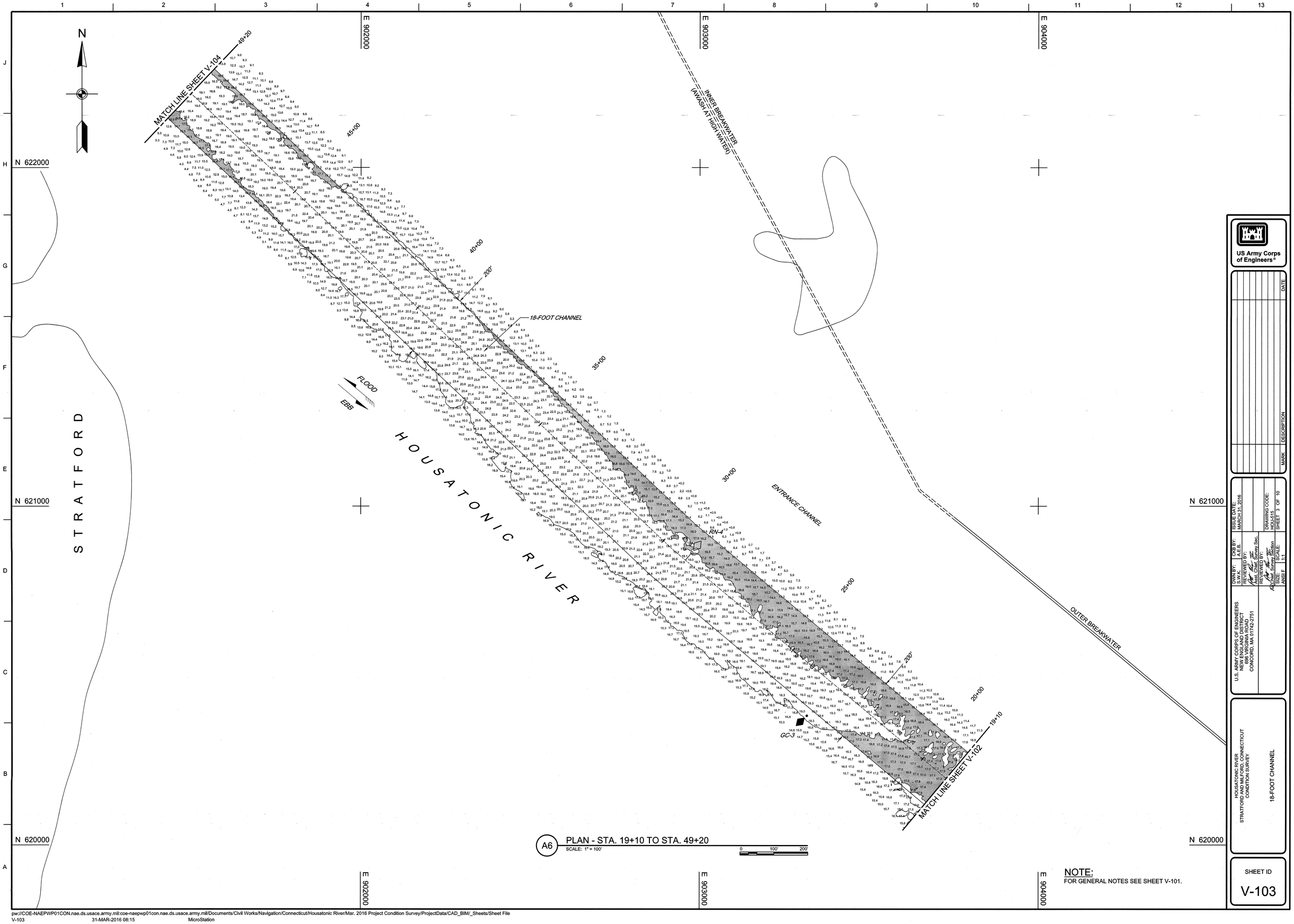
U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

DWN BY: S.W.K. | CKD BY: A.E.B.
APPROVED BY: Asst. Chief, Survey Sec.
REVIEWED BY: Chief, Survey Section
SIZE: ANSI F | SCALE: 1:1
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 2 OF 10

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-102



A6 PLAN - STA. 19+10 TO STA. 49+20
SCALE: 1" = 100'
0 100' 200'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

DWN BY: S.W.M. | CKD BY: A.E.B.
REVIEWED BY: Asst. Chief, Survey Sec.
REVIEWED BY: Chief, Survey Section
SIZE: ANSI F | SCALE: 1:1
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 3 OF 10

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-103

pw://COE-NAEPWP01CON.nae.ds.usace.army.mil:coe-naepwp01con.nae.ds.usace.army.mil/Documents/Civil Works/Navigation/Connecticut/Housatonic River/Mar. 2016 Project Condition Survey/ProjectData/CAD_BIM/_Sheets/Sheet File
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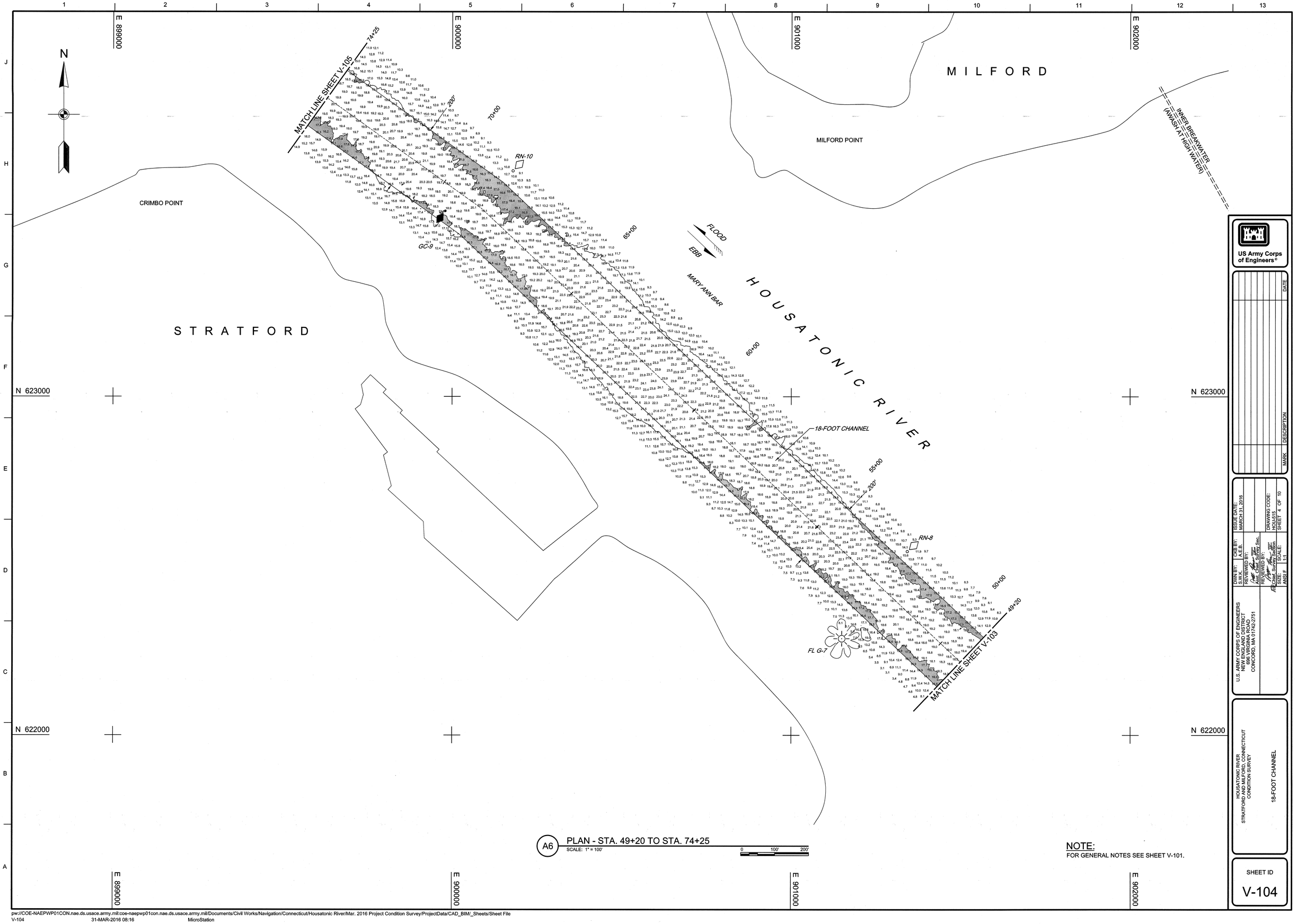

A6 PLAN - STA. 49+20 TO STA. 74+25
SCALE: 1" = 100'
0 100' 200'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
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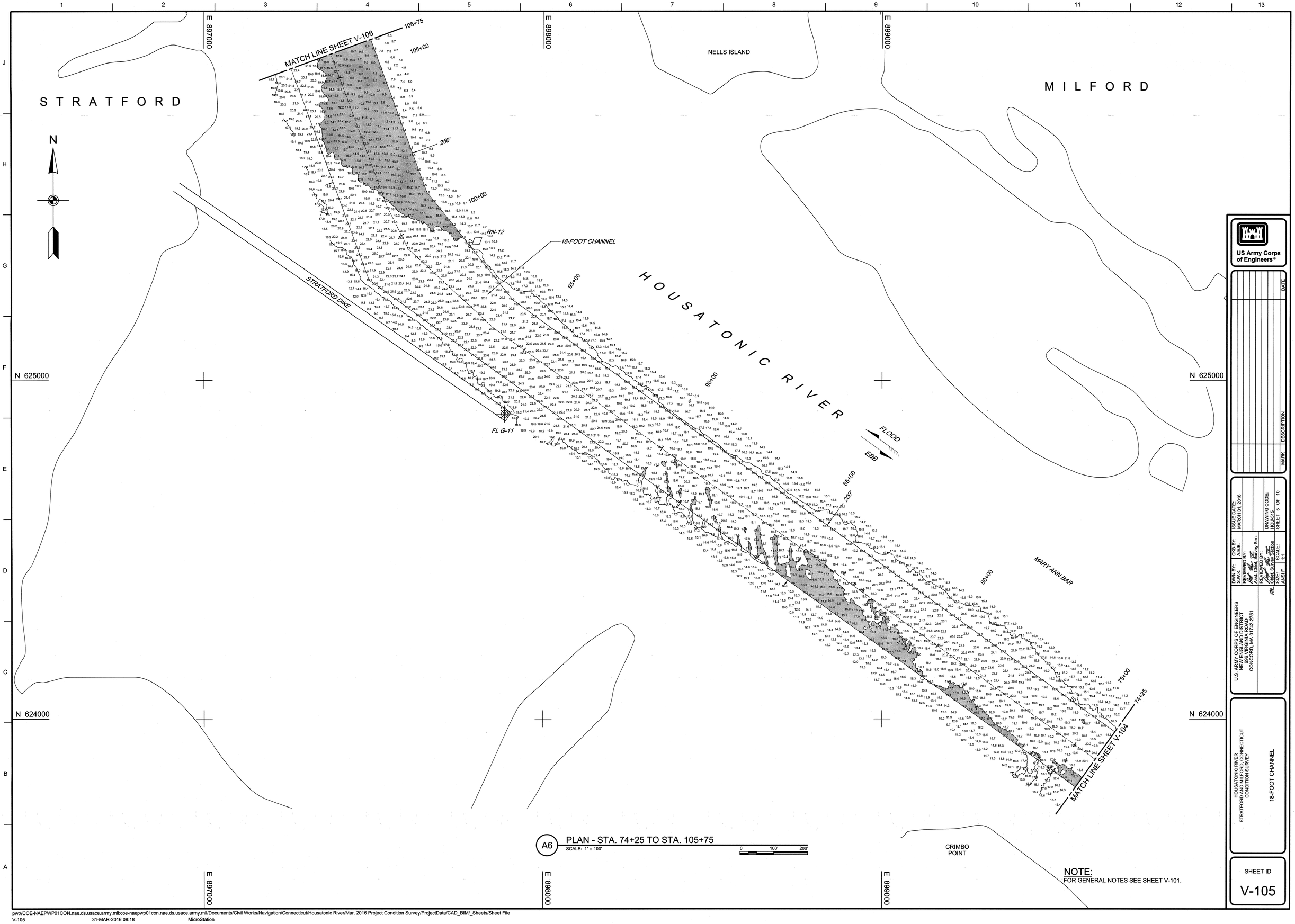
DWN BY: S.W.K.
CKD BY: A.E.B.
ISSUED BY: Asst. Chief, Survey Sec.
REVIEWED BY: Chief, Survey Section
SIZE: ANSI F
SCALE: 1:1
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 4 OF 10

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-104



A6 PLAN - STA. 74+25 TO STA. 105+75
SCALE: 1" = 100'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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NEW ENGLAND DISTRICT
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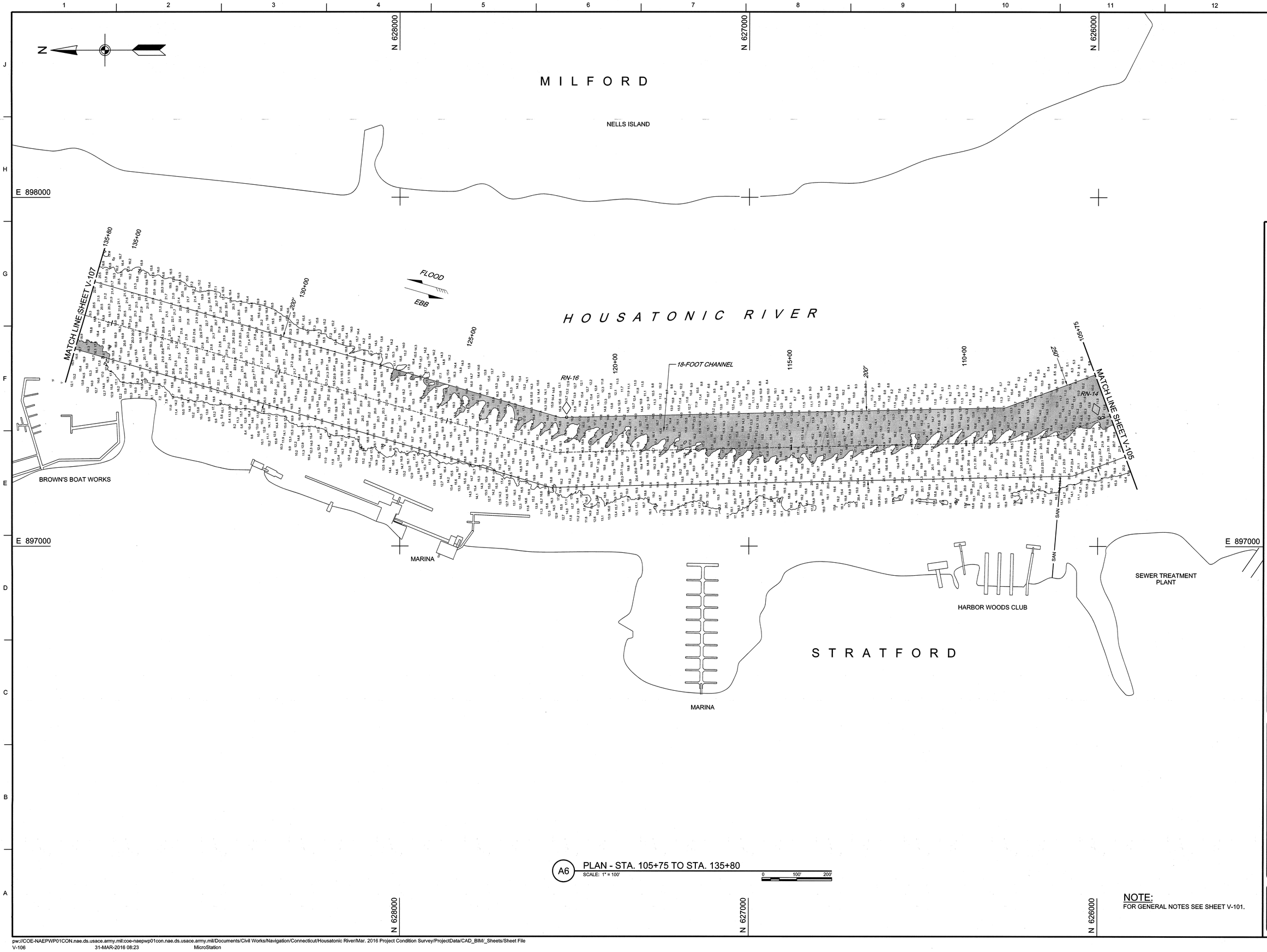
CONCORD, MA 01742-2751

DWN BY: S.W.K.
CHK'D BY: R.E.B.
APPROVED BY: Asst. Chief, Survey Sec.
REVIEWED BY: Chief, Survey Section
SIZE: ANSI F
C&G BY: A.E.B.
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 5 OF 10
SCALE: 1:1

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-105



A6 PLAN - STA. 105+75 TO STA. 135+80
SCALE: 1" = 100'
0 100' 200'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
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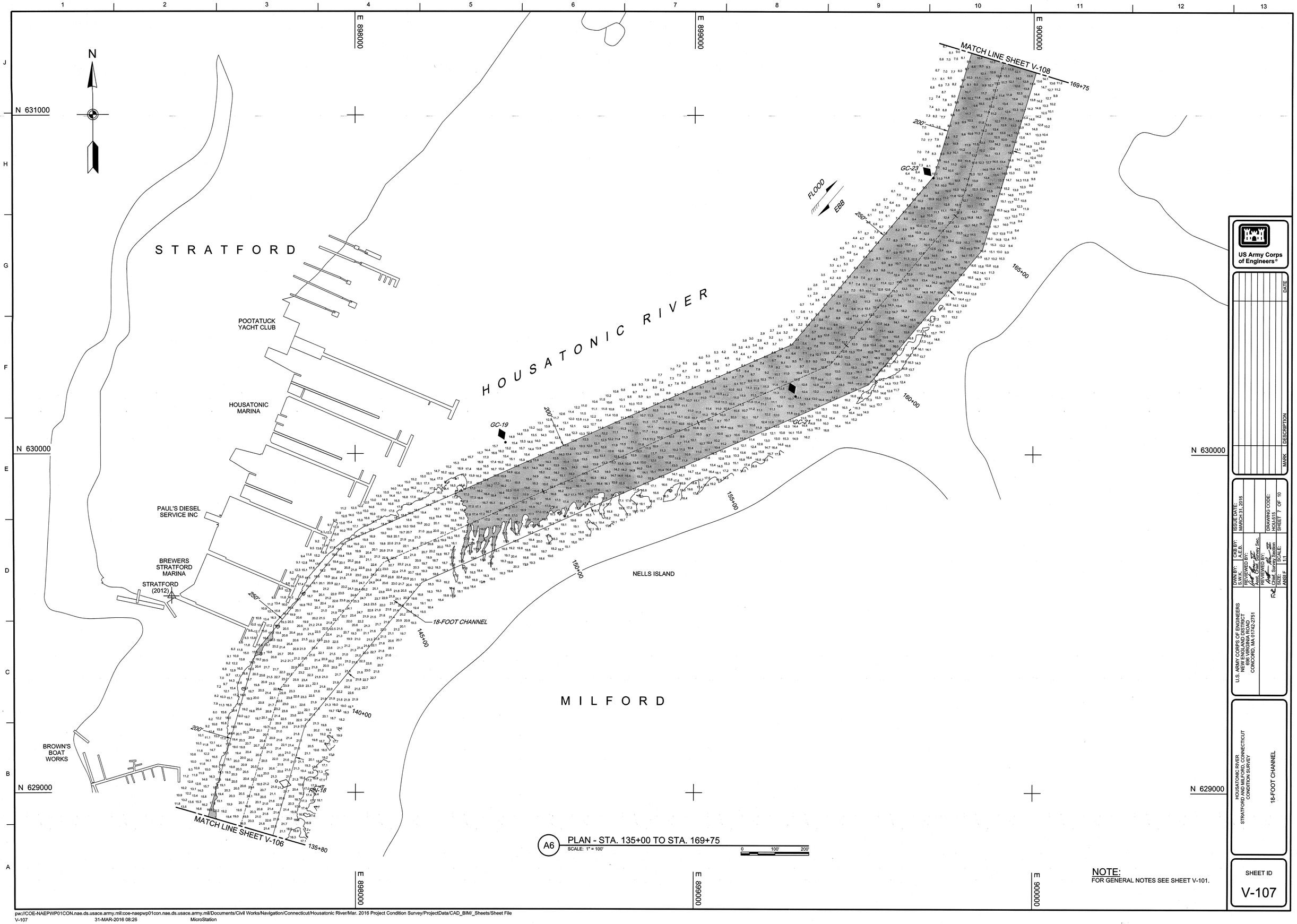
DWN BY: KAW/ MAT
CKD BY: A.E.B.
REVIEWED BY: Asst. Chief, Survey Sec.
REVIEWED BY: Chief, Survey Section
SIZE: ANSI F
SCALE: 1:1
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 6 OF 10

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-106



A6 PLAN - STA. 135+00 TO STA. 169+75
SCALE: 1" = 100'
0 100' 200'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

DWN BY: | CKD BY: | ISSUE DATE:
S.W.B. | A.E.B. | MARCH 31, 2016
REVIEWED BY: Asst. Chief, Survey Sec.
REVIEWED BY: Chief, Survey Section
DRAWING CODE: HOU-515
SHEET 7 OF 10
SIZE: ANSI F
SCALE: 1:1

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-107

1 2 3 4 5 6 7 8 9 10 11 12 13

J H G F E D C B A

N 633000 N 632000 N 631000

E 901000 E 900000 E 899000

N

STATE ROUTE 1

MILFORD

DEVON

STRATFORD

HOUSATONIC RIVER

WASHINGTON BRIDGE
(BASCULE BRIDGE)
HOR CL 125 FT
VERT CL 32 FT

BOARDWALK
MARINA

GOOSE ISLAND

FLOOD

EBB

18-FOOT CHANNEL

MATCH LINE SHEET V-109

MATCH LINE SHEET V-107

182+00 190+00 185+00 180+00 175+00 170+00 169+75

A6 PLAN - STA. 169+75 TO STA. 192+00
SCALE: 1" = 100'

0 100' 200'

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

DWN BY: S.W.K.
CKD BY: A.E.B.
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 8 OF 10
SCALE: 1:1
SIZE: ANSI F

REVIEWED BY:
Asst. Chief, Survey Sec.
REVIEWED BY:
Chief, Survey Section

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-108

pw://COE-NAEPWP01CON.nae.ds.usace.army.mil:coe-naepwp01con.nae.ds.usace.army.mil/Documents/Civil Works/Navigation/Connecticut/Housatonic River/Mar. 2016 Project Condition Survey/ProjectData/CAD_BIM/_Sheets/Sheet File
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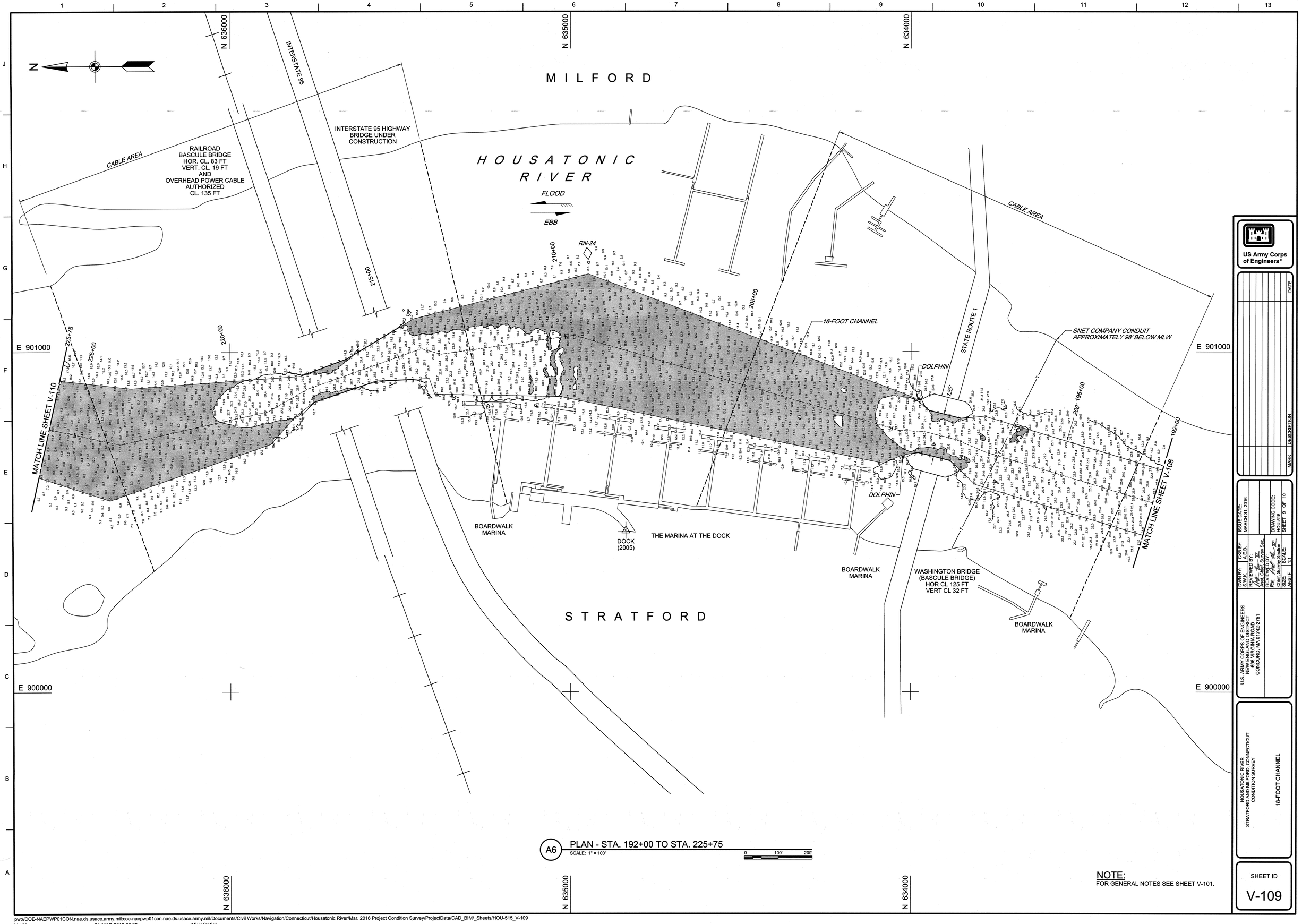

NOTE:
FOR GENERAL NOTES SEE SHEET V-101.

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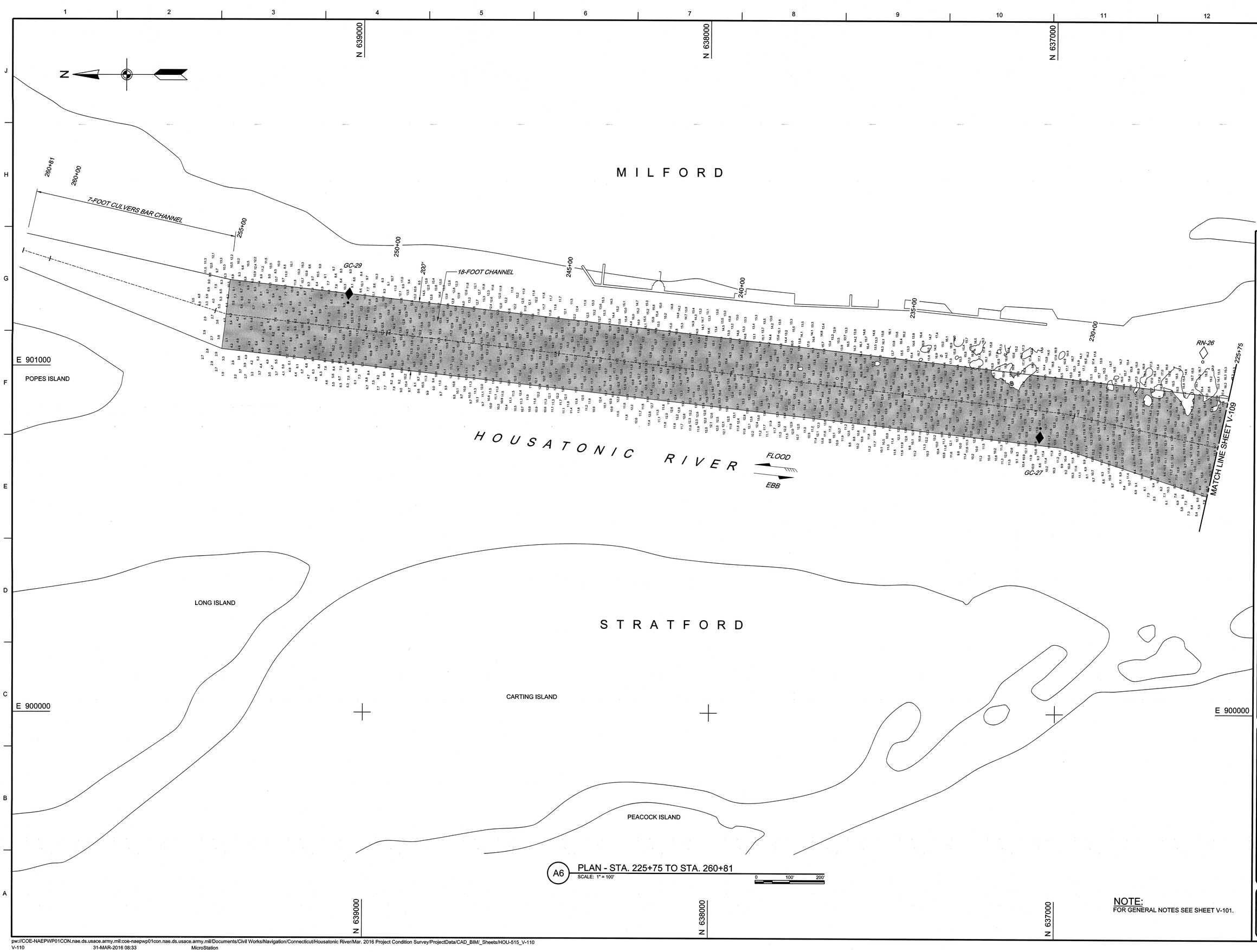
REVIEWED BY: K.E.B.
Asst. Chief, Survey Sec.
REVIEWED BY:
Chief, Survey Section
SIZE: ANSI F
SCALE: 1:1
ISSUE DATE: MARCH 31, 2016
DRAWING CODE: HOU-515
SHEET 9 OF 10

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD, MA 01742-2751

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-109



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NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
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SHEET 10 OF 10

HOUSATONIC RIVER
STRATFORD AND MILFORD, CONNECTICUT
CONDITION SURVEY

18-FOOT CHANNEL

SHEET ID
V-110