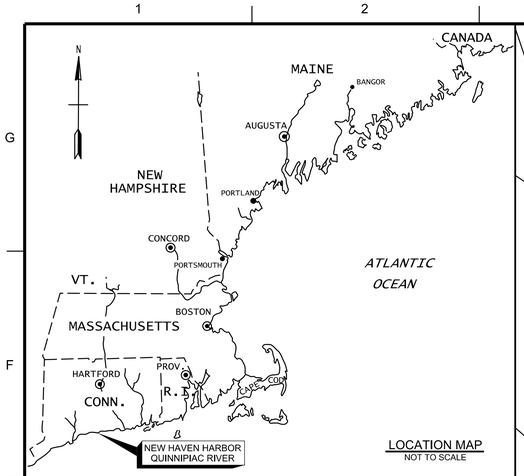


GENERAL NOTES:

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. 12371. 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 3.64 FT.
THE CORRECTION IS REFERENCED FROM NOAA'S V-DATUM MODEL IN THE VICINITY OF NEW HAVEN HARBOR, QUINNIPIAC RIVER, NEW HAVEN, CT.
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 6.1 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 STATION USED WAS STATION MTS NEW HAVEN.

6. THE SOUNDING INFORMATION SHOWN ON THESE MAPS REPRESENTS THE SHOALEST SOUNDINGS OF THOSE OBTAINED FROM HYDROGRAPHIC SURVEYS CONDUCTED DURING JULY AND AUGUST 2017.

7. THE SOUNDING INFORMATION DEPICTED ON THESE MAPS SHOULD NOT BE USED TO DETERMINE VOLUMES. VOLUMES ARE DETERMINED FROM MORE SOUNDING INFORMATION THAN SHOWN.

8. 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.

9. FIELD BOOK: R&H 4525
12-FOOT DEPTH CONTOUR SHOWN THUS: — — — — — — — — — —
16-FOOT DEPTH CONTOUR SHOWN THUS: —·—·—·—·—·—·—·—·—
18-FOOT DEPTH CONTOUR SHOWN THUS: ————————————
SURVEYED BY: MICHAEL VADNAIS AND CREW
REFER TO SURVEY NO. 17-2465

INDEX OF NAVIGATION AIDS			
NO.	DATE	STATE PLANE COORDINATES	GEOGRAPHIC POSITION
GC-1	08/01/2017	N 670366 E 959433	41°-18'-02.9"N 72°-53'-51.5"W

A4 PLAN - STA. 0+00 TO STA. 28+00
SCALE: 1" = 100'
0 100' 200'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: NOVEMBER 30, 2017
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE: NHH-927
Section SHEET 1 OF 3

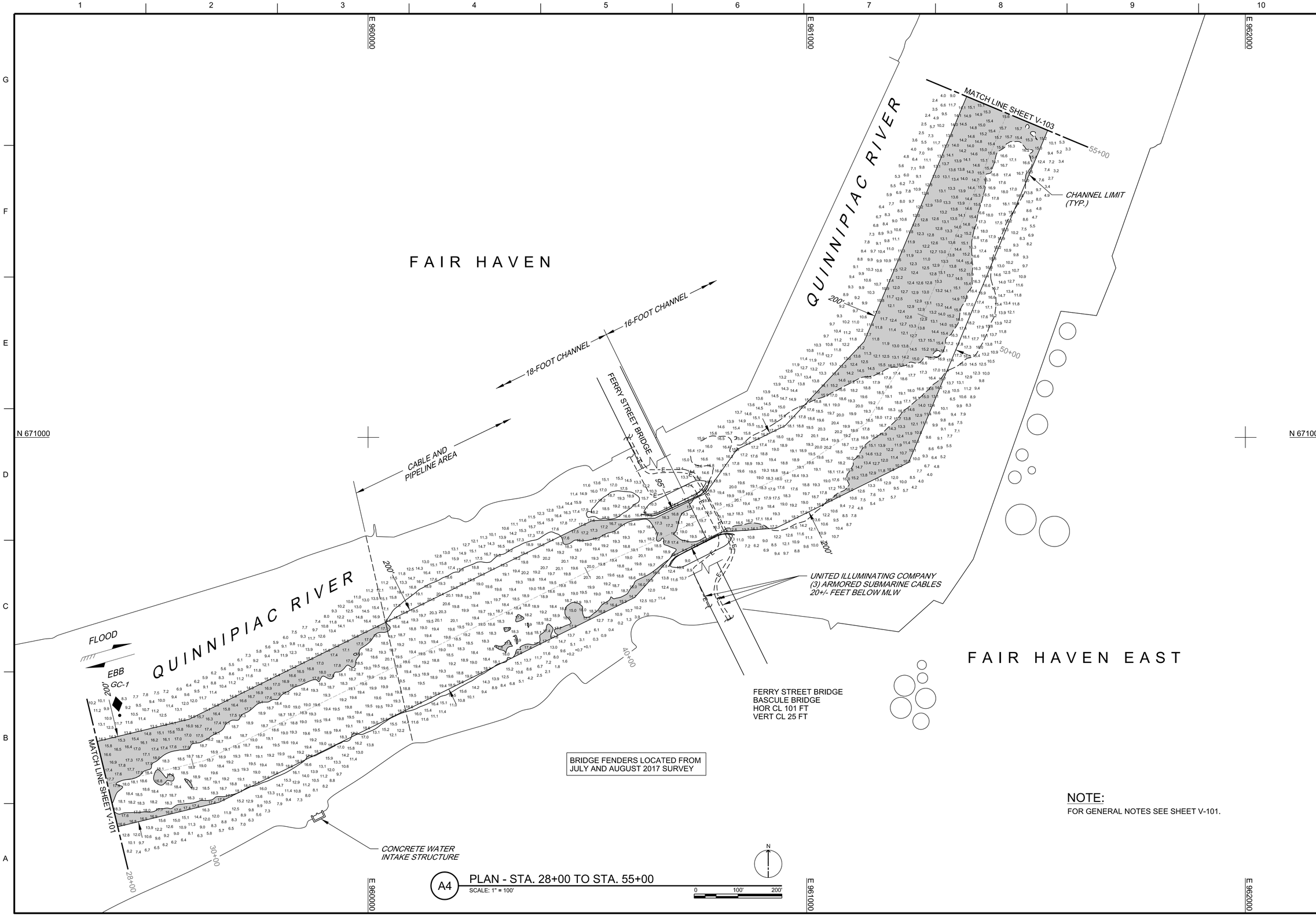
DWN BY: WHW
CHK BY: EMA
REVIEWED BY:
Asst. Chief, Survey Sec.
APPROVED BY:
For: Chief, Survey Section
DATE:
SCALE: ANSI D 1:1

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

NEW HAVEN HARBOR
NEW HAVEN, CONNECTICUT
QUINNIPIAC RIVER
CONDITION SURVEY

12, 16 AND 18-FOOT CHANNELS
18-FOOT TURNING AREA

SHEET ID
V-101



A4 PLAN - STA. 28+00 TO STA. 55+00

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: WHW
CHK BY: EMA
REVIEWED BY: Asst. Chief, Survey Sec.
APPROVED BY: For: Chief, Survey Section
SIZE: ANSI D
SCALE: 1:1
ISSUE DATE: NOVEMBER 30, 2017
SOLICITATION NO.:
CONTRACT NO.:
DRAWING CODE: NHH-927
SHEET 2 OF 3

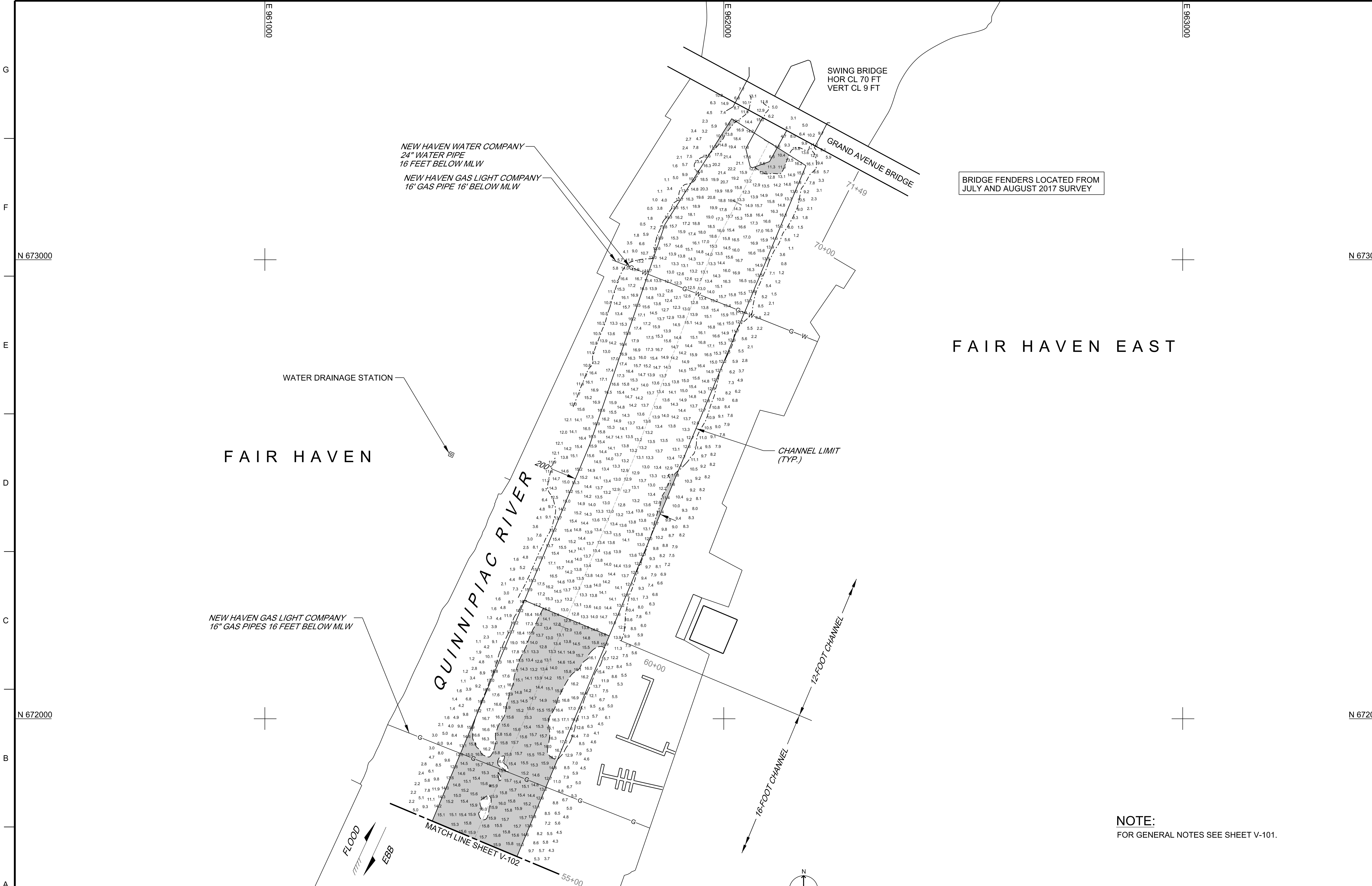
NEW HAVEN HARBOR
NEW HAVEN, CONNECTICUT
QUINNIPIAC RIVER
CONDITION SURVEY

12, 16 AND 18-FOOT CHANNELS
18-FOOT TURNING AREA

SHEET ID

V-102

pw://COE-NAEPWP01CON.nae.ds.usace.army.mil:coe-naepwp01con.nae.ds.usace.army.mil/Documents/Civil Works/Navigation/Connecticut/New Haven Harbor/July 2017 Project Condition Survey - Quinnipiac River (NHH-927)/ProjectData/CAD_BIM/_Sheets/NHH-927_V-102
11:40:58 AM 11/30/2017 PD: AEC_pdf.pltcfg DS: AEC_Screen.dscript.dscript



A4 PLAN - STA. 55+00 TO STA. 71+49

SCALE: 1" = 100'

0 100' 200'

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: WHW	CHK BY: EMA	ISSUE DATE: NOVEMBER 30, 2017
REVIEWED BY: Digitally signed by WYLLIE.KATRINA.ROSE.1399406567 Date: 2017.12.01 07:26:09 -05'00' Asst. Chief, Survey Sec.		SOLICITATION NO.:
		CONTRACT NO.:
APPROVED BY: Digitally signed by WYLLIE.KATRINA.ROSE.1399406567 Date: 2017.12.01 07:26:25 -05'00' For: Chief, Survey Section		DRAWING CODE: NHH-927
SIZE: ANSI D	SCALE: 1:1	SHEET 3 OF 3

NEW HAVEN HARBOR
NEW HAVEN, CONNECTICUT
QUINNIPIAC RIVER
CONDITION SURVEY

12, 16 AND 18-FOOT CHANNELS
18-FOOT TURNING AREA

SHEET ID

V-103